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

Hit Summary Sheet
SW-846

SDG No.: Q2150

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**TP-44**								
Q2150-01	TP-44	SOIL	Acetone		16.9	J	4.10	21.6	ug/Kg
			Total Voc :		16.9				
Q2150-01	TP-44	SOIL	11H-Dibenzo[b,e][1,4]diazepin	*	6.70	J	0	0	ug/Kg
			Total Tics :		6.70				
			Total Concentration:		23.6				
Client ID:	**TP-42**								
Q2150-02	TP-42	SOIL	Acetone		20.9	J	4.20	22.2	ug/Kg
			Total Voc :		20.9				
Q2150-02	TP-42	SOIL	Tert butyl alcohol	*	18.4	J	12.2	22.2	ug/Kg
			Total Tics :		18.4				
			Total Concentration:		39.3				
Client ID:	**TP-39**								
Q2150-03	TP-39	SOIL	Acetone		14.1	J	3.90	20.6	ug/Kg
Q2150-03	TP-39	SOIL	Benzene		7.20		0.65	4.10	ug/Kg
			Total Voc :		21.3				
			Total Concentration:		21.3				
Client ID:	**TP-48**								
Q2150-04	TP-48	SOIL	Acetone		13.1	J	4.50	23.8	ug/Kg
			Total Voc :		13.1				
			Total Concentration:		13.1				
Client ID:	**TP-47**								
Q2150-05	TP-47	SOIL	1-Methyldecylamine	*	28.7	J	0	0	ug/Kg
			Total Tics :		28.7				
			Total Concentration:		28.7				
Client ID:	**TP-51**								
Q2150-07	TP-51	SOIL	Acetone		48.0		3.80	19.8	ug/Kg
Q2150-07	TP-51	SOIL	Methylene Chloride		3.10	J	2.80	7.90	ug/Kg
Q2150-07	TP-51	SOIL	2-Butanone		9.10	J	5.20	19.8	ug/Kg
Q2150-07	TP-51	SOIL	Benzene		2.80	J	0.63	4.00	ug/Kg
Q2150-07	TP-51	SOIL	m/p-Xylenes		1.20	J	0.98	7.90	ug/Kg
Q2150-07	TP-51	SOIL	Isopropylbenzene		2.90	J	0.62	4.00	ug/Kg
			Total Voc :		67.1				
Q2150-07	TP-51	SOIL	Benzene, 1-ethyl-2-methyl-	*	4.50	J	0	0	ug/Kg
Q2150-07	TP-51	SOIL	Bi-2-cyclohexen-1-yl	*	5.30	J	0	0	ug/Kg
Q2150-07	TP-51	SOIL	Salicylic acid, 2TMS derivative	*	7.00	J	0	0	ug/Kg
Q2150-07	TP-51	SOIL	Pentacyclo[6.3.1.0(2,7).0(3,5).(	*	5.00	J	0	0	ug/Kg
Q2150-07	TP-51	SOIL	11H-Dibenzo[b,e][1,4]diazepin	*	7.00	J	0	0	ug/Kg
			Total Tics :		28.8				

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Hit Summary Sheet
SW-846

SDG No.: Q2150

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Concentration:	95.9				
Client ID:	**TP-54**							
Q2150-09	TP-54	SOIL	Acetone	21.8		3.60	19.0	ug/Kg
			Total Voc :	21.8				
Q2150-09	TP-54	SOIL	11H-Dibenzo[b,e][1,4]diazepin *	6.00	J	0	0	ug/Kg
			Total Tics :	6.00				
			Total Concentration:	27.8				
Client ID:	**TP-53**							
Q2150-10	TP-53	SOIL	Methylene Chloride	2.80	J	2.70	7.50	ug/Kg
			Total Voc :	2.80				
			Total Concentration:	2.80				

SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.9
Sample Wt/Vol:	7.32 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022460.D	1		05/29/25 12:25	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.99	U	0.99	4.30	ug/Kg
74-87-3	Chloromethane	0.99	U	0.99	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	U	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.93	UQ	0.93	4.30	ug/Kg
75-00-3	Chloroethane	1.10	UQ	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.87	U	0.87	4.30	ug/Kg
67-64-1	Acetone	16.9	J	4.10	21.6	ug/Kg
75-15-0	Carbon Disulfide	0.92	U	0.92	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	3.10	U	3.10	8.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	4.30	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	21.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.65	U	0.65	4.30	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.30	ug/Kg
67-66-3	Chloroform	0.73	U	0.73	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.81	U	0.81	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.79	U	0.79	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.79	U	0.79	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.68	U	0.68	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.6	ug/Kg
108-88-3	Toluene	0.68	U	0.68	4.30	ug/Kg

Raw Data: **VY022460.D**

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

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.9
Sample Wt/Vol:	7.32 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022460.D	1		05/29/25 12:25	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.6	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.91	U	0.91	4.30	ug/Kg
108-90-7	Chlorobenzene	0.79	U	0.79	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.70	ug/Kg
95-47-6	o-Xylene	0.71	U	0.71	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.68	U	0.68	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.80	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.9		63 - 155	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.6		17 - 146	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	285000	7.713			
540-36-3	1,4-Difluorobenzene	526000	8.622			
3114-55-4	Chlorobenzene-d5	403000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022460.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.9
Sample Wt/Vol:	7.32 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022460.D	1		05/29/25 12:25	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	6.70	J		13.9	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

Raw Data: **VY022506.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	6.52 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
VY022506.D	1		06/02/25 18:44	VY060225

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	20.9	J	4.20	22.2	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	0.77	U	0.77	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	22.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.86	U	0.86	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.67	U	0.67	4.40	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.40	ug/Kg
67-66-3	Chloroform	0.75	U	0.75	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.83	U	0.83	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	22.2	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

Raw Data: **VY022506.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	6.52 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
VY022506.D	1		06/02/25 18:44	VY060225

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	0.82	U	0.82	4.40	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.2	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	0.60	U	0.60	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	0.77	U	0.77	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	54.6		63 - 155	109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	50.1		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.7		17 - 146	83%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	279000	7.713			
540-36-3	1,4-Difluorobenzene	515000	8.616			
3114-55-4	Chlorobenzene-d5	412000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	143000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022506.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	6.52 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
VY022506.D	1		06/02/25 18:44	VY060225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
75-65-0	Tert butyl alcohol	18.4	J		4.88	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

Raw Data: **VY022462.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-39	SDG No.:	Q2150
Lab Sample ID:	Q2150-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022462.D	1		05/29/25 13:12	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.94	U	0.94	4.10	ug/Kg
74-87-3	Chloromethane	0.94	U	0.94	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.65	U	0.65	4.10	ug/Kg
74-83-9	Bromomethane	0.88	UQ	0.88	4.10	ug/Kg
75-00-3	Chloroethane	1.00	UQ	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.83	U	0.83	4.10	ug/Kg
67-64-1	Acetone	14.1	J	3.90	20.6	ug/Kg
75-15-0	Carbon Disulfide	0.87	U	0.87	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.60	U	0.60	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.71	U	0.71	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.66	U	0.66	4.10	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.10	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	20.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.62	U	0.62	4.10	ug/Kg
74-97-5	Bromochloromethane	0.95	U	0.95	4.10	ug/Kg
67-66-3	Chloroform	0.69	U	0.69	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.77	U	0.77	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.10	ug/Kg
71-43-2	Benzene	7.20		0.65	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
79-01-6	Trichloroethene	0.67	U	0.67	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.75	U	0.75	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.64	U	0.64	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	20.6	ug/Kg
108-88-3	Toluene	0.64	U	0.64	4.10	ug/Kg

Raw Data: **VY022462.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-39	SDG No.:	Q2150
Lab Sample ID:	Q2150-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022462.D	1		05/29/25 13:12	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.54	U	0.54	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.6	ug/Kg
124-48-1	Dibromochloromethane	0.72	U	0.72	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.73	U	0.73	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.87	U	0.87	4.10	ug/Kg
108-90-7	Chlorobenzene	0.75	U	0.75	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.55	U	0.55	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.30	ug/Kg
95-47-6	o-Xylene	0.68	U	0.68	4.10	ug/Kg
100-42-5	Styrene	0.59	U	0.59	4.10	ug/Kg
75-25-2	Bromoform	0.71	U	0.71	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.64	U	0.64	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.50	U	2.50	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.3		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.8		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.8		17 - 146	76%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	305000	7.713			
540-36-3	1,4-Difluorobenzene	550000	8.622			
3114-55-4	Chlorobenzene-d5	413000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.346			

Raw Data: **VY022462.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-39	SDG No.:	Q2150
Lab Sample ID:	Q2150-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022462.D	1		05/29/25 13:12	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-48	SDG No.:	Q2150
Lab Sample ID:	Q2150-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.7
Sample Wt/Vol:	6.52 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
VY022463.D	1		05/29/25 13:36	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.80	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.80	ug/Kg
75-01-4	Vinyl Chloride	0.75	U	0.75	4.80	ug/Kg
74-83-9	Bromomethane	1.00	UQ	1.00	4.80	ug/Kg
75-00-3	Chloroethane	1.20	UQ	1.20	4.80	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.95	U	0.95	4.80	ug/Kg
67-64-1	Acetone	13.1	J	4.50	23.8	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.69	U	0.69	4.80	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.80	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	9.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	4.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.76	U	0.76	4.80	ug/Kg
110-82-7	Cyclohexane	0.75	U	0.75	4.80	ug/Kg
78-93-3	2-Butanone	6.20	U	6.20	23.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.92	U	0.92	4.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.71	U	0.71	4.80	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.80	ug/Kg
67-66-3	Chloroform	0.80	U	0.80	4.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.88	U	0.88	4.80	ug/Kg
108-87-2	Methylcyclohexane	0.86	U	0.86	4.80	ug/Kg
71-43-2	Benzene	0.75	U	0.75	4.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.75	U	0.75	4.80	ug/Kg
79-01-6	Trichloroethene	0.77	U	0.77	4.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.86	U	0.86	4.80	ug/Kg
75-27-4	Bromodichloromethane	0.74	U	0.74	4.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	23.8	ug/Kg
108-88-3	Toluene	0.74	U	0.74	4.80	ug/Kg

Raw Data: **VY022463.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-48	SDG No.:	Q2150
Lab Sample ID:	Q2150-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.7
Sample Wt/Vol:	6.52 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
VY022463.D	1		05/29/25 13:36	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.62	U	0.62	4.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.59	U	0.59	4.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.87	U	0.87	4.80	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	23.8	ug/Kg
124-48-1	Dibromochloromethane	0.83	U	0.83	4.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.84	U	0.84	4.80	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	4.80	ug/Kg
108-90-7	Chlorobenzene	0.86	U	0.86	4.80	ug/Kg
100-41-4	Ethyl Benzene	0.64	U	0.64	4.80	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.50	ug/Kg
95-47-6	o-Xylene	0.78	U	0.78	4.80	ug/Kg
100-42-5	Styrene	0.67	U	0.67	4.80	ug/Kg
75-25-2	Bromoform	0.82	U	0.82	4.80	ug/Kg
98-82-8	Isopropylbenzene	0.74	U	0.74	4.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.1		63 - 155	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	50.5		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.0		17 - 146	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	279000	7.719			
540-36-3	1,4-Difluorobenzene	518000	8.622			
3114-55-4	Chlorobenzene-d5	419000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	156000	13.352			

Raw Data: **VY022463.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-48	SDG No.:	Q2150
Lab Sample ID:	Q2150-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.7
Sample Wt/Vol:	6.52 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
VY022463.D	1		05/29/25 13:36	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81
Sample Wt/Vol:	7.15 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
VY022464.D	1		05/29/25 13:59	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.98	U	0.98	4.30	ug/Kg
74-87-3	Chloromethane	0.98	U	0.98	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	U	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.92	UQ	0.92	4.30	ug/Kg
75-00-3	Chloroethane	1.10	UQ	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.86	U	0.86	4.30	ug/Kg
67-64-1	Acetone	4.10	U	4.10	21.6	ug/Kg
75-15-0	Carbon Disulfide	0.92	U	0.92	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	3.00	U	3.00	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	4.30	ug/Kg
78-93-3	2-Butanone	5.60	U	5.60	21.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.65	U	0.65	4.30	ug/Kg
74-97-5	Bromochloromethane	0.99	U	0.99	4.30	ug/Kg
67-66-3	Chloroform	0.73	U	0.73	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.79	U	0.79	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.79	U	0.79	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.67	U	0.67	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.6	ug/Kg
108-88-3	Toluene	0.67	U	0.67	4.30	ug/Kg

Raw Data: **VY022464.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81
Sample Wt/Vol:	7.15 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
VY022464.D	1		05/29/25 13:59	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.6	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.91	U	0.91	4.30	ug/Kg
108-90-7	Chlorobenzene	0.79	U	0.79	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.71	U	0.71	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.70	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.9		63 - 155	64%	SPK: 50
1868-53-7	Dibromofluoromethane	32.5	*	70 - 134	65%	SPK: 50
2037-26-5	Toluene-d8	43.4		74 - 123	87%	SPK: 50
460-00-4	4-Bromofluorobenzene	20.5		17 - 146	41%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	18600	7.719			
540-36-3	1,4-Difluorobenzene	25900	8.621			
3114-55-4	Chlorobenzene-d5	13700	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	2220	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022464.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81
Sample Wt/Vol:	7.15 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
VY022464.D	1		05/29/25 13:59	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
013205-56-6	1-Methyldecylamine	28.7	J		2.12	ug/Kg

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

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47RE	SDG No.:	Q2150
Lab Sample ID:	Q2150-05RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81
Sample Wt/Vol:	7.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022507.D	1		06/02/25 19:08	VY060225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.94	U	0.94	4.10	ug/Kg
74-87-3	Chloromethane	0.94	U	0.94	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.65	U	0.65	4.10	ug/Kg
74-83-9	Bromomethane	0.88	U	0.88	4.10	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.83	U	0.83	4.10	ug/Kg
67-64-1	Acetone	3.90	U	3.90	20.6	ug/Kg
75-15-0	Carbon Disulfide	0.87	U	0.87	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.60	U	0.60	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.71	U	0.71	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.66	U	0.66	4.10	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.10	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	20.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.62	U	0.62	4.10	ug/Kg
74-97-5	Bromochloromethane	0.95	U	0.95	4.10	ug/Kg
67-66-3	Chloroform	0.69	U	0.69	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.77	U	0.77	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.10	ug/Kg
71-43-2	Benzene	0.65	U	0.65	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
79-01-6	Trichloroethene	0.67	U	0.67	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.75	U	0.75	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.64	U	0.64	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	20.6	ug/Kg
108-88-3	Toluene	0.64	U	0.64	4.10	ug/Kg

Raw Data: **VY022507.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47RE	SDG No.:	Q2150
Lab Sample ID:	Q2150-05RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81
Sample Wt/Vol:	7.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022507.D	1		06/02/25 19:08	VY060225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.54	U	0.54	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.6	ug/Kg
124-48-1	Dibromochloromethane	0.72	U	0.72	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.73	U	0.73	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.87	U	0.87	4.10	ug/Kg
108-90-7	Chlorobenzene	0.75	U	0.75	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.55	U	0.55	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.30	ug/Kg
95-47-6	o-Xylene	0.68	U	0.68	4.10	ug/Kg
100-42-5	Styrene	0.59	U	0.59	4.10	ug/Kg
75-25-2	Bromoform	0.71	U	0.71	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.64	U	0.64	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.50	U	2.50	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.9		63 - 155	110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		70 - 134	106%	SPK: 50
2037-26-5	Toluene-d8	47.0		74 - 123	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	34.8		17 - 146	70%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	60800	7.707			
540-36-3	1,4-Difluorobenzene	105000	8.616			
3114-55-4	Chlorobenzene-d5	78200	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	24500	13.346			

Raw Data: **VY022507.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47RE	SDG No.:	Q2150
Lab Sample ID:	Q2150-05RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81
Sample Wt/Vol:	7.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022507.D	1		06/02/25 19:08	VY060225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-50	SDG No.:	Q2150
Lab Sample ID:	Q2150-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86
Sample Wt/Vol:	7.01 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
VY022465.D	1		05/29/25 14:22	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.95	U	0.95	4.10	ug/Kg
74-87-3	Chloromethane	0.95	U	0.95	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.66	U	0.66	4.10	ug/Kg
74-83-9	Bromomethane	0.89	UQ	0.89	4.10	ug/Kg
75-00-3	Chloroethane	1.00	UQ	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.88	U	0.88	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.83	U	0.83	4.10	ug/Kg
67-64-1	Acetone	3.90	U	3.90	20.7	ug/Kg
75-15-0	Carbon Disulfide	0.88	U	0.88	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.61	U	0.61	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.71	U	0.71	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.66	U	0.66	4.10	ug/Kg
110-82-7	Cyclohexane	0.66	U	0.66	4.10	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	20.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.62	U	0.62	4.10	ug/Kg
74-97-5	Bromochloromethane	0.95	U	0.95	4.10	ug/Kg
67-66-3	Chloroform	0.70	U	0.70	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.77	U	0.77	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.10	ug/Kg
71-43-2	Benzene	0.66	U	0.66	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.66	U	0.66	4.10	ug/Kg
79-01-6	Trichloroethene	0.67	U	0.67	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.75	U	0.75	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.65	U	0.65	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	20.7	ug/Kg
108-88-3	Toluene	0.65	U	0.65	4.10	ug/Kg

Raw Data: **VY022465.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-50	SDG No.:	Q2150
Lab Sample ID:	Q2150-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86
Sample Wt/Vol:	7.01 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
VY022465.D	1		05/29/25 14:22	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.54	U	0.54	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
591-78-6	2-Hexanone	3.10	U	3.10	20.7	ug/Kg
124-48-1	Dibromochloromethane	0.72	U	0.72	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.73	U	0.73	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.87	U	0.87	4.10	ug/Kg
108-90-7	Chlorobenzene	0.75	U	0.75	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.56	U	0.56	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.30	ug/Kg
95-47-6	o-Xylene	0.68	U	0.68	4.10	ug/Kg
100-42-5	Styrene	0.59	U	0.59	4.10	ug/Kg
75-25-2	Bromoform	0.71	U	0.71	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.65	U	0.65	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.50	U	2.50	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		63 - 155	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.2		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.1		17 - 146	72%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	285000	7.713			
540-36-3	1,4-Difluorobenzene	539000	8.622			
3114-55-4	Chlorobenzene-d5	401000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	116000	13.346			

Raw Data: **VY022465.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-50	SDG No.:	Q2150
Lab Sample ID:	Q2150-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86
Sample Wt/Vol:	7.01 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
VY022465.D	1		05/29/25 14:22	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51	SDG No.:	Q2150
Lab Sample ID:	Q2150-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.53 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
VY022466.D	1		05/29/25 14:46	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.90	U	0.90	4.00	ug/Kg
74-87-3	Chloromethane	0.90	U	0.90	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.63	U	0.63	4.00	ug/Kg
74-83-9	Bromomethane	0.85	UQ	0.85	4.00	ug/Kg
75-00-3	Chloroethane	1.00	UQ	1.00	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.96	U	0.96	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.84	U	0.84	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.79	U	0.79	4.00	ug/Kg
67-64-1	Acetone	48.0		3.80	19.8	ug/Kg
75-15-0	Carbon Disulfide	0.84	U	0.84	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.00	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	4.00	ug/Kg
75-09-2	Methylene Chloride	3.10	J	2.80	7.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	4.00	ug/Kg
110-82-7	Cyclohexane	0.63	U	0.63	4.00	ug/Kg
78-93-3	2-Butanone	9.10	J	5.20	19.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.77	U	0.77	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	4.00	ug/Kg
74-97-5	Bromochloromethane	0.91	U	0.91	4.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.74	U	0.74	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.72	U	0.72	4.00	ug/Kg
71-43-2	Benzene	2.80	J	0.63	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.63	U	0.63	4.00	ug/Kg
79-01-6	Trichloroethene	0.64	U	0.64	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.72	U	0.72	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.62	U	0.62	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.8	ug/Kg
108-88-3	Toluene	0.62	U	0.62	4.00	ug/Kg

Raw Data: **VY022466.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51	SDG No.:	Q2150
Lab Sample ID:	Q2150-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.53 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
VY022466.D	1		05/29/25 14:46	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.73	U	0.73	4.00	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.8	ug/Kg
124-48-1	Dibromochloromethane	0.69	U	0.69	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.70	U	0.70	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.83	U	0.83	4.00	ug/Kg
108-90-7	Chlorobenzene	0.72	U	0.72	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	4.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	J	0.98	7.90	ug/Kg
95-47-6	o-Xylene	0.65	U	0.65	4.00	ug/Kg
100-42-5	Styrene	0.56	U	0.56	4.00	ug/Kg
75-25-2	Bromoform	0.68	U	0.68	4.00	ug/Kg
98-82-8	Isopropylbenzene	2.90	J	0.62	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.96	U	0.96	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.4		63 - 155	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	49.6		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.0		17 - 146	70%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	267000	7.713			
540-36-3	1,4-Difluorobenzene	486000	8.616			
3114-55-4	Chlorobenzene-d5	363000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	99700	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022466.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51	SDG No.:	Q2150
Lab Sample ID:	Q2150-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.53 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
VY022466.D	1		05/29/25 14:46	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000611-14-3	Benzene, 1-ethyl-2-methyl-	4.50	J		12.7	ug/Kg
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	7.00	J		13.9	ug/Kg
003789-85-3	Salicylic acid, 2TMS derivative	7.00	J		13.9	ug/Kg
006049-82-7	Pentacyclo[6.3.1.0(2,7).0(3,5).0(9	5.00	J		14.3	ug/Kg
001541-20-4	Bi-2-cyclohexen-1-yl	5.30	J		15.0	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

Raw Data: **VY022467.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.7
Sample Wt/Vol:	5.75 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
VY022467.D	1		05/29/25 15:09	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.10	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.10	ug/Kg
75-01-4	Vinyl Chloride	0.80	U	0.80	5.10	ug/Kg
74-83-9	Bromomethane	1.10	UQ	1.10	5.10	ug/Kg
75-00-3	Chloroethane	1.30	UQ	1.30	5.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.10	ug/Kg
67-64-1	Acetone	4.80	U	4.80	25.4	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.74	U	0.74	5.10	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.10	ug/Kg
75-09-2	Methylene Chloride	3.60	U	3.60	10.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.87	U	0.87	5.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.10	ug/Kg
110-82-7	Cyclohexane	0.80	U	0.80	5.10	ug/Kg
78-93-3	2-Butanone	6.60	U	6.60	25.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.98	U	0.98	5.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.76	U	0.76	5.10	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.10	ug/Kg
67-66-3	Chloroform	0.85	U	0.85	5.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.94	U	0.94	5.10	ug/Kg
108-87-2	Methylcyclohexane	0.92	U	0.92	5.10	ug/Kg
71-43-2	Benzene	0.80	U	0.80	5.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.80	U	0.80	5.10	ug/Kg
79-01-6	Trichloroethene	0.82	U	0.82	5.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.92	U	0.92	5.10	ug/Kg
75-27-4	Bromodichloromethane	0.79	U	0.79	5.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.4	ug/Kg
108-88-3	Toluene	0.79	U	0.79	5.10	ug/Kg

Raw Data: **VY022467.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.7
Sample Wt/Vol:	5.75 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
VY022467.D	1		05/29/25 15:09	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.66	U	0.66	5.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.63	U	0.63	5.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.93	U	0.93	5.10	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.4	ug/Kg
124-48-1	Dibromochloromethane	0.88	U	0.88	5.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.89	U	0.89	5.10	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.10	ug/Kg
108-90-7	Chlorobenzene	0.92	U	0.92	5.10	ug/Kg
100-41-4	Ethyl Benzene	0.68	U	0.68	5.10	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.1	ug/Kg
95-47-6	o-Xylene	0.83	U	0.83	5.10	ug/Kg
100-42-5	Styrene	0.72	U	0.72	5.10	ug/Kg
75-25-2	Bromoform	0.87	U	0.87	5.10	ug/Kg
98-82-8	Isopropylbenzene	0.79	U	0.79	5.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	50.0		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.8		17 - 146	78%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	287000	7.713			
540-36-3	1,4-Difluorobenzene	522000	8.621			
3114-55-4	Chlorobenzene-d5	405000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.346			

Raw Data: **VY022467.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.7
Sample Wt/Vol:	5.75 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
VY022467.D	1		05/29/25 15:09	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54	SDG No.:	Q2150
Lab Sample ID:	Q2150-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.6
Sample Wt/Vol:	7.85 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
VY022468.D	1		05/29/25 15:33	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.87	U	0.87	3.80	ug/Kg
74-87-3	Chloromethane	0.87	U	0.87	3.80	ug/Kg
75-01-4	Vinyl Chloride	0.60	U	0.60	3.80	ug/Kg
74-83-9	Bromomethane	0.82	UQ	0.82	3.80	ug/Kg
75-00-3	Chloroethane	0.96	UQ	0.96	3.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.92	U	0.92	3.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.81	U	0.81	3.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.76	U	0.76	3.80	ug/Kg
67-64-1	Acetone	21.8		3.60	19.0	ug/Kg
75-15-0	Carbon Disulfide	0.81	U	0.81	3.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.56	U	0.56	3.80	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.80	ug/Kg
75-09-2	Methylene Chloride	2.70	U	2.70	7.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.66	U	0.66	3.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.61	U	0.61	3.80	ug/Kg
110-82-7	Cyclohexane	0.60	U	0.60	3.80	ug/Kg
78-93-3	2-Butanone	5.00	U	5.00	19.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.74	U	0.74	3.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.57	U	0.57	3.80	ug/Kg
74-97-5	Bromochloromethane	0.88	U	0.88	3.80	ug/Kg
67-66-3	Chloroform	0.64	U	0.64	3.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.71	U	0.71	3.80	ug/Kg
108-87-2	Methylcyclohexane	0.69	U	0.69	3.80	ug/Kg
71-43-2	Benzene	0.60	U	0.60	3.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.60	U	0.60	3.80	ug/Kg
79-01-6	Trichloroethene	0.62	U	0.62	3.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.69	U	0.69	3.80	ug/Kg
75-27-4	Bromodichloromethane	0.59	U	0.59	3.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.70	U	2.70	19.0	ug/Kg
108-88-3	Toluene	0.59	U	0.59	3.80	ug/Kg

Raw Data: **VY022468.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54	SDG No.:	Q2150
Lab Sample ID:	Q2150-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.6
Sample Wt/Vol:	7.85 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
VY022468.D	1		05/29/25 15:33	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.50	3.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.47	U	0.47	3.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.70	U	0.70	3.80	ug/Kg
591-78-6	2-Hexanone	2.80	U	2.80	19.0	ug/Kg
124-48-1	Dibromochloromethane	0.66	U	0.66	3.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.67	U	0.67	3.80	ug/Kg
127-18-4	Tetrachloroethene	0.80	U	0.80	3.80	ug/Kg
108-90-7	Chlorobenzene	0.69	U	0.69	3.80	ug/Kg
100-41-4	Ethyl Benzene	0.51	U	0.51	3.80	ug/Kg
179601-23-1	m/p-Xylenes	0.94	U	0.94	7.60	ug/Kg
95-47-6	o-Xylene	0.62	U	0.62	3.80	ug/Kg
100-42-5	Styrene	0.54	U	0.54	3.80	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	3.80	ug/Kg
98-82-8	Isopropylbenzene	0.59	U	0.59	3.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.92	U	0.92	3.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.40	U	2.40	3.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		63 - 155	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.7		17 - 146	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	283000	7.713			
540-36-3	1,4-Difluorobenzene	518000	8.616			
3114-55-4	Chlorobenzene-d5	407000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022468.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54	SDG No.:	Q2150
Lab Sample ID:	Q2150-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.6
Sample Wt/Vol:	7.85 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
VY022468.D	1		05/29/25 15:33	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	6.00	J		13.9	ug/Kg

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

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

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

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-53	SDG No.:	Q2150
Lab Sample ID:	Q2150-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.3
Sample Wt/Vol:	7.78 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
VY022469.D	1		05/29/25 15:56	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.86	U	0.86	3.80	ug/Kg
74-87-3	Chloromethane	0.86	U	0.86	3.80	ug/Kg
75-01-4	Vinyl Chloride	0.60	U	0.60	3.80	ug/Kg
74-83-9	Bromomethane	0.81	UQ	0.81	3.80	ug/Kg
75-00-3	Chloroethane	0.95	UQ	0.95	3.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	3.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.80	U	0.80	3.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.75	U	0.75	3.80	ug/Kg
67-64-1	Acetone	3.60	U	3.60	18.8	ug/Kg
75-15-0	Carbon Disulfide	0.80	U	0.80	3.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.55	U	0.55	3.80	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.80	ug/Kg
75-09-2	Methylene Chloride	2.80	J	2.70	7.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.65	U	0.65	3.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.60	U	0.60	3.80	ug/Kg
110-82-7	Cyclohexane	0.60	U	0.60	3.80	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	18.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.73	U	0.73	3.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.57	U	0.57	3.80	ug/Kg
74-97-5	Bromochloromethane	0.87	U	0.87	3.80	ug/Kg
67-66-3	Chloroform	0.63	U	0.63	3.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.70	U	0.70	3.80	ug/Kg
108-87-2	Methylcyclohexane	0.69	U	0.69	3.80	ug/Kg
71-43-2	Benzene	0.60	U	0.60	3.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.60	U	0.60	3.80	ug/Kg
79-01-6	Trichloroethene	0.61	U	0.61	3.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.69	U	0.69	3.80	ug/Kg
75-27-4	Bromodichloromethane	0.59	U	0.59	3.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.70	U	2.70	18.8	ug/Kg
108-88-3	Toluene	0.59	U	0.59	3.80	ug/Kg

Raw Data: **VY022469.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-53	SDG No.:	Q2150
Lab Sample ID:	Q2150-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.3
Sample Wt/Vol:	7.78 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
VY022469.D	1		05/29/25 15:56	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.49	U	0.49	3.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.47	U	0.47	3.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.69	U	0.69	3.80	ug/Kg
591-78-6	2-Hexanone	2.80	U	2.80	18.8	ug/Kg
124-48-1	Dibromochloromethane	0.66	U	0.66	3.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.66	U	0.66	3.80	ug/Kg
127-18-4	Tetrachloroethene	0.79	U	0.79	3.80	ug/Kg
108-90-7	Chlorobenzene	0.69	U	0.69	3.80	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	3.80	ug/Kg
179601-23-1	m/p-Xylenes	0.93	U	0.93	7.50	ug/Kg
95-47-6	o-Xylene	0.62	U	0.62	3.80	ug/Kg
100-42-5	Styrene	0.53	U	0.53	3.80	ug/Kg
75-25-2	Bromoform	0.65	U	0.65	3.80	ug/Kg
98-82-8	Isopropylbenzene	0.59	U	0.59	3.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.91	U	0.91	3.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.20	U	2.20	3.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.40	U	2.40	3.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.7		63 - 155	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.6		17 - 146	83%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	273000	7.707			
540-36-3	1,4-Difluorobenzene	503000	8.616			
3114-55-4	Chlorobenzene-d5	400000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	145000	13.347			

Raw Data: **VY022469.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-53	SDG No.:	Q2150
Lab Sample ID:	Q2150-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.3
Sample Wt/Vol:	7.78 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
VY022469.D	1		05/29/25 15:56	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2150-01	TP-44	1,2-Dichloroethane-d4	50	52.9	106	63	155
		Dibromofluoromethane	50	51.4	103	70	134
		Toluene-d8	50	49.3	99	74	123
		4-Bromofluorobenzene	50	37.6	75	17	146
Q2150-02	TP-42	1,2-Dichloroethane-d4	50	54.6	109	63	155
		Dibromofluoromethane	50	51.8	104	70	134
		Toluene-d8	50	50.1	100	74	123
		4-Bromofluorobenzene	50	41.7	83	17	146
Q2150-03	TP-39	1,2-Dichloroethane-d4	50	48.3	97	63	155
		Dibromofluoromethane	50	49.9	100	70	134
		Toluene-d8	50	49.8	100	74	123
		4-Bromofluorobenzene	50	37.8	76	17	146
Q2150-04	TP-48	1,2-Dichloroethane-d4	50	59.1	118	63	155
		Dibromofluoromethane	50	52.7	105	70	134
		Toluene-d8	50	50.5	101	74	123
		4-Bromofluorobenzene	50	43.0	86	17	146
Q2150-05	TP-47	1,2-Dichloroethane-d4	50	31.9	64	63	155
		Dibromofluoromethane	50	32.5	65 *	70	134
		Toluene-d8	50	43.4	87	74	123
		4-Bromofluorobenzene	50	20.5	41	17	146
Q2150-05RE	TP-47RE	1,2-Dichloroethane-d4	50	54.9	110	63	155
		Dibromofluoromethane	50	52.9	106	70	134
		Toluene-d8	50	47.0	94	74	123
		4-Bromofluorobenzene	50	34.8	70	17	146
Q2150-06	TP-50	1,2-Dichloroethane-d4	50	54.1	108	63	155
		Dibromofluoromethane	50	51.2	102	70	134
		Toluene-d8	50	49.2	98	74	123
		4-Bromofluorobenzene	50	36.1	72	17	146
Q2150-07	TP-51	1,2-Dichloroethane-d4	50	55.4	111	63	155
		Dibromofluoromethane	50	52.4	105	70	134
		Toluene-d8	50	49.6	99	74	123
		4-Bromofluorobenzene	50	35.0	70	17	146
Q2150-08	TP-52	1,2-Dichloroethane-d4	50	51.7	103	63	155
		Dibromofluoromethane	50	51.3	103	70	134
		Toluene-d8	50	50.0	100	74	123
		4-Bromofluorobenzene	50	38.8	78	17	146
Q2150-09	TP-54	1,2-Dichloroethane-d4	50	52.6	105	63	155
		Dibromofluoromethane	50	50.7	101	70	134
		Toluene-d8	50	50.4	101	74	123
		4-Bromofluorobenzene	50	39.7	79	17	146
Q2150-10	TP-53	1,2-Dichloroethane-d4	50	52.7	105	63	155
		Dibromofluoromethane	50	51.1	102	70	134
		Toluene-d8	50	49.9	100	74	123
		4-Bromofluorobenzene	50	41.6	83	17	146
VY0529SBL01	VY0529SBL01	1,2-Dichloroethane-d4	50	53.3	107	63	155
		Dibromofluoromethane	50	50.8	102	70	134
		Toluene-d8	50	50.1	100	74	123
		4-Bromofluorobenzene	50	40.9	82	17	146
VY0529SBS01	VY0529SBS01	1,2-Dichloroethane-d4	50	53.5	107	63	155
		Dibromofluoromethane	50	49.6	99	70	134

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Surrogate Summary

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VY0529SBS01	VY0529SBS01	Toluene-d8	50	49.6	99	74	123
		4-Bromofluorobenzene	50	48.2	96	17	146
VY0529SBSD01	VY0529SBSD01	1,2-Dichloroethane-d4	50	55.1	110	63	155
		Dibromofluoromethane	50	52.5	105	70	134
		Toluene-d8	50	51.6	103	74	123
		4-Bromofluorobenzene	50	49.9	100	17	146
VY0602SBL02	VY0602SBL02	1,2-Dichloroethane-d4	50	53.2	106	63	155
		Dibromofluoromethane	50	51.0	102	70	134
		Toluene-d8	50	49.7	99	74	123
		4-Bromofluorobenzene	50	42.8	86	17	146
VY0602SBS01	VY0602SBS01	1,2-Dichloroethane-d4	50	50.8	102	63	155
		Dibromofluoromethane	50	51.6	103	70	134
		Toluene-d8	50	51.9	104	74	123
		4-Bromofluorobenzene	50	50.8	101	17	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022455.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0529SBS01	Dichlorodifluoromethane	20	22.5	ug/Kg	113			64	136	
	Chloromethane	20	26.3	ug/Kg	132			52	151	
	Vinyl chloride	20	23.7	ug/Kg	119			56	148	
	Bromomethane	20	28.0	ug/Kg	140			58	141	
	Chloroethane	20	26.5	ug/Kg	133		*	69	130	
	Trichlorofluoromethane	20	24.0	ug/Kg	120			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.4	ug/Kg	107			81	123	
	1,1-Dichloroethene	20	21.3	ug/Kg	106			79	121	
	Acetone	100	110	ug/Kg	110			40	171	
	Carbon disulfide	20	20.9	ug/Kg	104			59	130	
	Methyl tert-butyl Ether	20	22.3	ug/Kg	112			77	129	
	Methyl Acetate	20	22.9	ug/Kg	115			69	149	
	Methylene Chloride	20	20.9	ug/Kg	104			72	131	
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104			80	123	
	1,1-Dichloroethane	20	21.6	ug/Kg	108			82	123	
	Cyclohexane	20	20.8	ug/Kg	104			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	20.1	ug/Kg	101			76	129	
	cis-1,2-Dichloroethene	20	21.2	ug/Kg	106			82	123	
	Bromochloromethane	20	22.4	ug/Kg	112			80	127	
	Chloroform	20	21.8	ug/Kg	109			82	125	
	1,1,1-Trichloroethane	20	21.4	ug/Kg	107			80	126	
	Methylcyclohexane	20	20.3	ug/Kg	102			77	123	
	Benzene	20	20.8	ug/Kg	104			84	121	
	1,2-Dichloroethane	20	21.6	ug/Kg	108			81	126	
	Trichloroethene	20	20.5	ug/Kg	103			83	122	
	1,2-Dichloropropane	20	21.1	ug/Kg	106			83	122	
	Bromodichloromethane	20	20.9	ug/Kg	104			82	123	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			70	135	
	Toluene	20	20.1	ug/Kg	101			83	122	
	t-1,3-Dichloropropene	20	21.2	ug/Kg	106			78	124	
	cis-1,3-Dichloropropene	20	20.7	ug/Kg	104			81	122	
	1,1,2-Trichloroethane	20	21.1	ug/Kg	106			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	21.1	ug/Kg	106			79	125	
	1,2-Dibromoethane	20	21.3	ug/Kg	106			80	125	
	Tetrachloroethene	20	20.9	ug/Kg	104			83	125	
	Chlorobenzene	20	20.1	ug/Kg	101			84	122	
	Ethyl Benzene	20	19.7	ug/Kg	99			82	124	
	m/p-Xylenes	40	39.0	ug/Kg	98			83	124	
	o-Xylene	20	19.9	ug/Kg	100			83	123	
	Styrene	20	20.1	ug/Kg	101			82	124	
	Bromoform	20	21.4	ug/Kg	107			75	127	
	Isopropylbenzene	20	19.8	ug/Kg	99			82	124	
	1,1,2,2-Tetrachloroethane	20	21.1	ug/Kg	106			77	127	
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97			83	122	
	1,4-Dichlorobenzene	20	19.7	ug/Kg	99			84	121	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022455.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0529SBS01	1,2-Dibromo-3-Chloropropane	20	22.9	ug/Kg	115			66	134	
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99			78	127	
	1,2,3-Trichlorobenzene	20	20.6	ug/Kg	103			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022456.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0529SBSD01	Dichlorodifluoromethane	20	23.4	ug/Kg	117	3		64	136	20
	Chloromethane	20	26.4	ug/Kg	132	0		52	151	20
	Vinyl chloride	20	24.5	ug/Kg	123	3		56	148	20
	Bromomethane	20	28.8	ug/Kg	144	3	*	58	141	20
	Chloroethane	20	27.0	ug/Kg	135	1	*	69	130	20
	Trichlorofluoromethane	20	25.3	ug/Kg	127	6		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/Kg	106	1		81	123	20
	1,1-Dichloroethene	20	22.1	ug/Kg	111	5		79	121	20
	Acetone	100	120	ug/Kg	120	9		40	171	20
	Carbon disulfide	20	21.6	ug/Kg	108	4		59	130	20
	Methyl tert-butyl Ether	20	23.0	ug/Kg	115	3		77	129	20
	Methyl Acetate	20	25.2	ug/Kg	126	9		69	149	20
	Methylene Chloride	20	21.4	ug/Kg	107	3		72	131	20
	trans-1,2-Dichloroethene	20	21.9	ug/Kg	110	6		80	123	20
	1,1-Dichloroethane	20	22.8	ug/Kg	114	5		82	123	20
	Cyclohexane	20	20.7	ug/Kg	104	0		76	122	20
	2-Butanone	100	110	ug/Kg	110	0		69	131	20
	Carbon Tetrachloride	20	20.5	ug/Kg	103	2		76	129	20
	cis-1,2-Dichloroethene	20	21.9	ug/Kg	110	4		82	123	20
	Bromochloromethane	20	22.0	ug/Kg	110	2		80	127	20
	Chloroform	20	22.8	ug/Kg	114	4		82	125	20
	1,1,1-Trichloroethane	20	21.6	ug/Kg	108	1		80	126	20
	Methylcyclohexane	20	20.0	ug/Kg	100	2		77	123	20
	Benzene	20	21.4	ug/Kg	107	3		84	121	20
	1,2-Dichloroethane	20	21.9	ug/Kg	110	2		81	126	20
	Trichloroethene	20	20.9	ug/Kg	104	1		83	122	20
	1,2-Dichloropropane	20	21.9	ug/Kg	110	4		83	122	20
	Bromodichloromethane	20	21.5	ug/Kg	108	4		82	123	20
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	0		70	135	20
	Toluene	20	20.6	ug/Kg	103	2		83	122	20
	t-1,3-Dichloropropene	20	21.2	ug/Kg	106	0		78	124	20
	cis-1,3-Dichloropropene	20	21.2	ug/Kg	106	2		81	122	20
	1,1,2-Trichloroethane	20	21.2	ug/Kg	106	0		82	125	20
	2-Hexanone	100	110	ug/Kg	110	0		66	138	20
	Dibromochloromethane	20	21.1	ug/Kg	106	0		79	125	20
	1,2-Dibromoethane	20	21.6	ug/Kg	108	2		80	125	20
	Tetrachloroethene	20	20.9	ug/Kg	104	0		83	125	20
	Chlorobenzene	20	20.9	ug/Kg	104	3		84	122	20
	Ethyl Benzene	20	20.2	ug/Kg	101	2		82	124	20
	m/p-Xylenes	40	40.0	ug/Kg	100	2		83	124	20
	o-Xylene	20	20.3	ug/Kg	102	2		83	123	20
	Styrene	20	20.4	ug/Kg	102	1		82	124	20
	Bromoform	20	20.9	ug/Kg	104	3		75	127	20
	Isopropylbenzene	20	20.4	ug/Kg	102	3		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.8	ug/Kg	109	3		77	127	20
	1,3-Dichlorobenzene	20	20.5	ug/Kg	103	6		83	122	20
	1,4-Dichlorobenzene	20	21.2	ug/Kg	106	7		84	121	20
	1,2-Dichlorobenzene	20	21.1	ug/Kg	106	4		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022456.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0529SBSD01	1,2-Dibromo-3-Chloropropane	20	22.3	ug/Kg	112	3		66	134	20
	1,2,4-Trichlorobenzene	20	21.7	ug/Kg	109	10		78	127	20
	1,2,3-Trichlorobenzene	20	22.0	ug/Kg	110	7		70	137	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022500.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0602SBS01	Dichlorodifluoromethane	20	22.1	ug/Kg	111			64	136	
	Chloromethane	20	19.1	ug/Kg	96			52	151	
	Vinyl chloride	20	20.5	ug/Kg	103			56	148	
	Bromomethane	20	21.8	ug/Kg	109			58	141	
	Chloroethane	20	20.8	ug/Kg	104			69	130	
	Trichlorofluoromethane	20	22.2	ug/Kg	111			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.5	ug/Kg	103			79	121	
	Acetone	100	87.0	ug/Kg	87			40	171	
	Carbon disulfide	20	20.3	ug/Kg	102			59	130	
	Methyl tert-butyl Ether	20	20.5	ug/Kg	103			77	129	
	Methyl Acetate	20	21.6	ug/Kg	108			69	149	
	Methylene Chloride	20	19.1	ug/Kg	96			72	131	
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104			80	123	
	1,1-Dichloroethane	20	20.6	ug/Kg	103			82	123	
	Cyclohexane	20	20.2	ug/Kg	101			76	122	
	2-Butanone	100	96.6	ug/Kg	97			69	131	
	Carbon Tetrachloride	20	20.0	ug/Kg	100			76	129	
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104			82	123	
	Bromochloromethane	20	20.1	ug/Kg	101			80	127	
	Chloroform	20	21.0	ug/Kg	105			82	125	
	1,1,1-Trichloroethane	20	21.3	ug/Kg	106			80	126	
	Methylcyclohexane	20	20.5	ug/Kg	103			77	123	
	Benzene	20	20.6	ug/Kg	103			84	121	
	1,2-Dichloroethane	20	20.6	ug/Kg	103			81	126	
	Trichloroethene	20	20.5	ug/Kg	103			83	122	
	1,2-Dichloropropane	20	20.8	ug/Kg	104			83	122	
	Bromodichloromethane	20	21.0	ug/Kg	105			82	123	
	4-Methyl-2-Pentanone	100	98.7	ug/Kg	99			70	135	
	Toluene	20	20.0	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	19.8	ug/Kg	99			78	124	
	cis-1,3-Dichloropropene	20	20.4	ug/Kg	102			81	122	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			82	125	
	2-Hexanone	100	96.4	ug/Kg	96			66	138	
	Dibromochloromethane	20	19.9	ug/Kg	100			79	125	
	1,2-Dibromoethane	20	20.7	ug/Kg	104			80	125	
	Tetrachloroethene	20	20.8	ug/Kg	104			83	125	
	Chlorobenzene	20	20.3	ug/Kg	102			84	122	
	Ethyl Benzene	20	19.8	ug/Kg	99			82	124	
	m/p-Xylenes	40	39.6	ug/Kg	99			83	124	
	o-Xylene	20	19.8	ug/Kg	99			83	123	
	Styrene	20	19.4	ug/Kg	97			82	124	
	Bromoform	20	19.6	ug/Kg	98			75	127	
	Isopropylbenzene	20	19.6	ug/Kg	98			82	124	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/Kg	101			77	127	
	1,3-Dichlorobenzene	20	19.2	ug/Kg	96			83	122	
	1,4-Dichlorobenzene	20	19.6	ug/Kg	98			84	121	
	1,2-Dichlorobenzene	20	20.0	ug/Kg	100			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022500.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0602SBS01	1,2-Dibromo-3-Chloropropane	20	21.0	ug/Kg	105			66	134	
	1,2,4-Trichlorobenzene	20	20.7	ug/Kg	104			78	127	
	1,2,3-Trichlorobenzene	20	21.0	ug/Kg	105			70	137	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0529SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: VY022454.D Lab Sample ID: VY0529SBL01

Date Analyzed: 05/29/2025 Time Analyzed: 08:56

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
VY0529SBS01	VY0529SBS01	VY022455.D	05/29/2025
VY0529SBSD01	VY0529SBSD01	VY022456.D	05/29/2025
TP-44	Q2150-01	VY022460.D	05/29/2025
TP-39	Q2150-03	VY022462.D	05/29/2025
TP-48	Q2150-04	VY022463.D	05/29/2025
TP-47	Q2150-05	VY022464.D	05/29/2025
TP-50	Q2150-06	VY022465.D	05/29/2025
TP-51	Q2150-07	VY022466.D	05/29/2025
TP-52	Q2150-08	VY022467.D	05/29/2025
TP-54	Q2150-09	VY022468.D	05/29/2025
TP-53	Q2150-10	VY022469.D	05/29/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0602SBL02

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: VY022499.D Lab Sample ID: VY0602SBL02

Date Analyzed: 06/02/2025 Time Analyzed: 16:00

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
VY0602SBS01	VY0602SBS01	VY022500.D	06/02/2025
TP-42	Q2150-02	VY022506.D	06/02/2025
TP-47RE	Q2150-05RE	VY022507.D	06/02/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: VY022420.D BFB Injection Date: 05/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:20

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 60.0% of mass 95	58.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1.1 (1.2) 1
174	50.0 - 100.0% of mass 95	88.8
175	5.0 - 9.0% of mass 174	6.7 (7.6) 1
176	95.0 - 101.0% of mass 174	85.7 (96.4) 1
177	5.0 - 9.0% of mass 176	5.5 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022421.D	05/27/2025	08:50
VSTDICC010	VSTDICC010	VY022422.D	05/27/2025	09:14
VSTDICC020	VSTDICC020	VY022423.D	05/27/2025	09:36
VSTDICCC050	VSTDICCC050	VY022424.D	05/27/2025	09:59
VSTDICC100	VSTDICC100	VY022425.D	05/27/2025	10:22
VSTDICC150	VSTDICC150	VY022426.D	05/27/2025	10:44

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: VY022452.D BFB Injection Date: 05/29/2025

Instrument ID: MSVOA_Y BFB Injection Time: 07:54

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.8
75	30.0 - 60.0% of mass 95	59.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	82.9
175	5.0 - 9.0% of mass 174	6.4 (7.7) 1
176	95.0 - 101.0% of mass 174	79.3 (95.6) 1
177	5.0 - 9.0% of mass 176	5.6 (7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022453.D	05/29/2025	08:23
VY0529SBL01	VY0529SBL01	VY022454.D	05/29/2025	08:56
VY0529SBS01	VY0529SBS01	VY022455.D	05/29/2025	09:27
VY0529SBSD01	VY0529SBSD01	VY022456.D	05/29/2025	09:50
TP-44	Q2150-01	VY022460.D	05/29/2025	12:25
TP-39	Q2150-03	VY022462.D	05/29/2025	13:12
TP-48	Q2150-04	VY022463.D	05/29/2025	13:36
TP-47	Q2150-05	VY022464.D	05/29/2025	13:59
TP-50	Q2150-06	VY022465.D	05/29/2025	14:22
TP-51	Q2150-07	VY022466.D	05/29/2025	14:46
TP-52	Q2150-08	VY022467.D	05/29/2025	15:09
TP-54	Q2150-09	VY022468.D	05/29/2025	15:33
TP-53	Q2150-10	VY022469.D	05/29/2025	15:56

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

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
VSTDICC005	VSTDICC005	VY022491.D	06/02/2025	11:46
VSTDICC010	VSTDICC010	VY022492.D	06/02/2025	12:09
VSTDICC020	VSTDICC020	VY022493.D	06/02/2025	12:32
VSTDICCC050	VSTDICCC050	VY022494.D	06/02/2025	12:54
VSTDICC100	VSTDICC100	VY022495.D	06/02/2025	13:17
VSTDICC150	VSTDICC150	VY022496.D	06/02/2025	13:39
VY0602SBL02	VY0602SBL02	VY022499.D	06/02/2025	16:00
VY0602SBS01	VY0602SBS01	VY022500.D	06/02/2025	16:24
TP-42	Q2150-02	VY022506.D	06/02/2025	18:44
TP-47RE	Q2150-05RE	VY022507.D	06/02/2025	19:08

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: VY022453.D Date Analyzed: 05/29/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:23

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	217073	7.72	367403	8.62	311885	11.42
UPPER LIMIT	434146	8.219	734806	9.122	623770	11.92
LOWER LIMIT	108537	7.219	183702	8.122	155943	10.92
EPA SAMPLE NO.						
TP-44	284770	7.71	525823	8.62	402756	11.42
TP-39	305036	7.71	550366	8.62	413432	11.42
TP-48	278545	7.72	518246	8.62	419041	11.42
TP-47	18571 *	7.72	25910 *	8.62	13686 *	11.42
TP-50	284911	7.71	538977	8.62	400662	11.42
TP-51	266889	7.71	485834	8.62	362765	11.42
TP-52	286667	7.71	522350	8.62	404746	11.42
TP-54	283443	7.71	517546	8.62	406523	11.41
TP-53	273493	7.71	503324	8.62	399677	11.41
VY0529SBL01	320837	7.72	584950	8.62	455837	11.43
VY0529SBS01	217849	7.72	376540	8.62	319754	11.42
VY0529SBSD01	205776	7.71	359832	8.62	305847	11.42

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: VY022453.D Date Analyzed: 05/29/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:23

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

	IS4 AREA #		RT #				
12 HOUR STD	144539		13.353				
UPPER LIMIT	289078		13.853				
LOWER LIMIT	72269.5		12.853				
EPA SAMPLE NO.							
TP-44	123686		13.35				
TP-39	137454		13.35				
TP-48	155769		13.35				
TP-47	2224	*	13.35				
TP-50	115590		13.35				
TP-51	99703		13.35				
TP-52	132959		13.35				
TP-54	140553		13.35				
TP-53	145373		13.35				
VY0529SBL01	159461		13.35				
VY0529SBS01	148991		13.35				
VY0529SBSD01	140548		13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: VY022494.D Date Analyzed: 06/02/2025

Instrument ID: MSVOA_Y Time Analyzed: 12:54

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	209963	7.71	350947	8.62	298187	11.42
UPPER LIMIT	419926	8.213	701894	9.116	596374	11.92
LOWER LIMIT	104982	7.213	175474	8.116	149094	10.92
EPA SAMPLE NO.						
TP-42	279093	7.71	514728	8.62	411552	11.42
TP-47RE	60813 *	7.71	105433 *	8.62	78237 *	11.42
VY0602SBL02	309051	7.71	557091	8.62	442919	11.41
VY0602SBS01	201633	7.71	342745	8.62	291387	11.41

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: VY022494.D Date Analyzed: 06/02/2025

Instrument ID: MSVOA_Y Time Analyzed: 12:54

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

	IS4 AREA #		RT #				
12 HOUR STD	139554		13.347				
UPPER LIMIT	279108		13.847				
LOWER LIMIT	69777		12.847				
EPA SAMPLE NO.							
TP-42	142944		13.35				
TP-47RE	24479	*	13.35				
VY0602SBL02	162489		13.35				
VY0602SBS01	136847		13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0529SBL01	SDG No.:	Q2150
Lab Sample ID:	VY0529SBL01	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
VY022454.D	1		05/29/25 08:56	VY052925

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0529SBL01	SDG No.:	Q2150
Lab Sample ID:	VY0529SBL01	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
VY022454.D	1		05/29/25 08:56	VY052925

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	53.3		63 - 155	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	50.1		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.9		17 - 146	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	321000	7.719			
540-36-3	1,4-Difluorobenzene	585000	8.621			
3114-55-4	Chlorobenzene-d5	456000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	159000	13.352			

Raw Data: **VY022454.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0529SBL01	SDG No.:	Q2150
Lab Sample ID:	VY0529SBL01	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
VY022454.D	1		05/29/25 08:56	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0602SBL02	SDG No.:	Q2150
Lab Sample ID:	VY0602SBL02	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
VY022499.D	1		06/02/25 16:00	VY060225

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

Raw Data: **VY022499.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0602SBL02	SDG No.:	Q2150
Lab Sample ID:	VY0602SBL02	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
VY022499.D	1		06/02/25 16:00	VY060225

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	53.2		63 - 155	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.7		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.8		17 - 146	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	309000	7.707			
540-36-3	1,4-Difluorobenzene	557000	8.616			
3114-55-4	Chlorobenzene-d5	443000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	162000	13.347			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0602SBL02	SDG No.:	Q2150
Lab Sample ID:	VY0602SBL02	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
VY022499.D	1		06/02/25 16:00	VY060225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0529SBS01	SDG No.:	Q2150
Lab Sample ID:	VY0529SBS01	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
VY022455.D	1		05/29/25 09:27	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.5		1.10	5.00	ug/Kg
74-87-3	Chloromethane	26.3		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	23.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	28.0		1.10	5.00	ug/Kg
75-00-3	Chloroethane	26.5		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	24.0		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.3		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.3		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	22.9		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.9		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	21.6		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.1		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.2		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	22.4		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.8		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.4		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.3		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.9		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	25.0	ug/Kg
108-88-3	Toluene	20.1		0.78	5.00	ug/Kg

Raw Data: **VY022455.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0529SBS01	SDG No.:	Q2150
Lab Sample ID:	VY0529SBS01	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
VY022455.D	1		05/29/25 09:27	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	21.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.7		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.1		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.3		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.7		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.9		0.82	5.00	ug/Kg
100-42-5	Styrene	20.1		0.71	5.00	ug/Kg
75-25-2	Bromoform	21.4		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.8		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.1		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	19.7		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.3		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	22.9		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.6		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	49.6		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	49.6		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		17 - 146	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	218000	7.719			
540-36-3	1,4-Difluorobenzene	377000	8.622			
3114-55-4	Chlorobenzene-d5	320000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	149000	13.352			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0529SBS01	SDG No.:	Q2150
Lab Sample ID:	VY0529SBS01	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
VY022455.D	1		05/29/25 09:27	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0602SBS01	SDG No.:	Q2150
Lab Sample ID:	VY0602SBS01	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
VY022500.D	1		06/02/25 16:24	VY060225

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	19.1		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.5		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.8		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	20.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.5		1.00	5.00	ug/Kg
67-64-1	Acetone	87.0		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.3		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	21.6		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.1		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	20.6		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	96.6		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.0		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.1		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.3		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.5		0.91	5.00	ug/Kg
71-43-2	Benzene	20.6		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.8		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	98.7		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0602SBS01	SDG No.:	Q2150
Lab Sample ID:	VY0602SBS01	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
VY022500.D	1		06/02/25 16:24	VY060225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.8		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.4		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	96.4		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.9		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.7		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.3		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.82	5.00	ug/Kg
100-42-5	Styrene	19.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.6		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.6		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.2		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.6		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.0		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	51.9		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		17 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	202000	7.713			
540-36-3	1,4-Difluorobenzene	343000	8.616			
3114-55-4	Chlorobenzene-d5	291000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.347			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0602SBS01	SDG No.:	Q2150
Lab Sample ID:	VY0602SBS01	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
VY022500.D	1		06/02/25 16:24	VY060225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0529SBSD01	SDG No.:	Q2150
Lab Sample ID:	VY0529SBSD01	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
VY022456.D	1		05/29/25 09:50	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	23.4		1.10	5.00	ug/Kg
74-87-3	Chloromethane	26.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	24.5		0.79	5.00	ug/Kg
74-83-9	Bromomethane	28.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	27.0		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	25.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	22.1		1.00	5.00	ug/Kg
67-64-1	Acetone	120		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.6		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	23.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	25.2		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	21.4		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.8		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.7		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.5		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.9		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	22.0		1.20	5.00	ug/Kg
67-66-3	Chloroform	22.8		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.6		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.0		0.91	5.00	ug/Kg
71-43-2	Benzene	21.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.9		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.9		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.5		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	25.0	ug/Kg
108-88-3	Toluene	20.6		0.78	5.00	ug/Kg

Raw Data: **VY022456.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0529SBSD01	SDG No.:	Q2150
Lab Sample ID:	VY0529SBSD01	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
VY022456.D	1		05/29/25 09:50	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	21.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.2		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.2		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.3		0.82	5.00	ug/Kg
100-42-5	Styrene	20.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.9		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.4		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.8		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	21.2		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	22.3		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	21.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	22.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		63 - 155	110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	51.6		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		17 - 146	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	206000	7.713			
540-36-3	1,4-Difluorobenzene	360000	8.622			
3114-55-4	Chlorobenzene-d5	306000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.347			

Raw Data: **VY022456.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0529SBSD01	SDG No.:	Q2150
Lab Sample ID:	VY0529SBSD01	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
VY022456.D	1		05/29/25 09:50	VY052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: MSVOA_Y Calibration Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:50 10:44

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

LAB FILE ID: RRF005 = VY022421.D RRF010 = VY022422.D RRF020 = VY022423.D
RRF050 = VY022424.D RRF100 = VY022425.D RRF150 = VY022426.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.544	0.509	0.526	0.423	0.430	0.429	0.477	11.6
Chloromethane	1.364	1.331	1.300	1.196	0.936	0.912	1.173	17.1
Vinyl Chloride	1.535	1.493	1.522	1.453	1.292	1.257	1.425	8.5
Bromomethane	1.261	1.281	1.397	1.275	1.213	1.345	1.295	5.1
Chloroethane	0.930	0.881	0.949	1.015	0.907	0.907	0.932	5
Trichlorofluoromethane	1.243	1.174	1.222	1.197	1.187	1.193	1.203	2.1
1,1,2-Trichlorotrifluoroethane	0.552	0.517	0.541	0.520	0.523	0.512	0.528	2.9
1,1-Dichloroethene	0.552	0.512	0.533	0.511	0.520	0.515	0.524	3
Acetone	0.094	0.090	0.081	0.085	0.086	0.083	0.087	5.6
Carbon Disulfide	1.672	1.675	1.707	1.653	1.672	1.650	1.672	1.2
Methyl tert-butyl Ether	1.353	1.359	1.357	1.386	1.445	1.445	1.391	3.1
Methyl Acetate	0.288	0.319	0.296	0.308	0.351	0.383	0.324	11.2
Methylene Chloride	0.778	0.669	0.578	0.549	0.550	0.543	0.611	15.5
trans-1,2-Dichloroethene	0.595	0.556	0.555	0.561	0.582	0.582	0.572	2.9
1,1-Dichloroethane	1.000	0.986	1.035	1.027	1.062	1.056	1.028	2.9
Cyclohexane	1.220	1.044	0.997	0.939	0.947	0.931	1.013	10.9
2-Butanone	0.137	0.144	0.136	0.142	0.152	0.154	0.144	5.2
Carbon Tetrachloride	0.473	0.456	0.471	0.481	0.510	0.512	0.484	4.7
cis-1,2-Dichloroethene	0.655	0.647	0.650	0.652	0.684	0.685	0.662	2.6
Bromochloromethane	0.400	0.426	0.435	0.439	0.439	0.437	0.429	3.5
Chloroform	0.966	0.970	1.023	1.026	1.052	1.038	1.013	3.5
1,1,1-Trichloroethane	0.900	0.894	0.916	0.913	0.952	0.940	0.919	2.5
Methylcyclohexane	0.611	0.602	0.603	0.614	0.638	0.636	0.618	2.6
Benzene	1.308	1.312	1.360	1.391	1.463	1.461	1.383	5
1,2-Dichloroethane	0.348	0.348	0.360	0.369	0.383	0.384	0.365	4.5
Trichloroethene	0.334	0.325	0.344	0.343	0.357	0.347	0.342	3.3
1,2-Dichloropropane	0.321	0.307	0.318	0.323	0.342	0.339	0.325	4
Bromodichloromethane	0.452	0.449	0.449	0.464	0.493	0.494	0.467	4.5
4-Methyl-2-Pentanone	0.185	0.197	0.198	0.218	0.237	0.242	0.213	10.8
Toluene	0.782	0.805	0.842	0.868	0.929	0.957	0.864	7.9

* 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.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: MSVOA_Y Calibration Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:50 10:44

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

LAB FILE ID: RRF005 = VY022421.D RRF010 = VY022422.D RRF020 = VY022423.D
RRF050 = VY022424.D RRF100 = VY022425.D RRF150 = VY022426.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.400	0.414	0.416	0.434	0.472	0.473	0.435	7.1
cis-1,3-Dichloropropene	0.477	0.480	0.504	0.508	0.549	0.547	0.511	6.1
1,1,2-Trichloroethane	0.219	0.216	0.226	0.229	0.243	0.243	0.229	5.1
2-Hexanone	0.121	0.125	0.129	0.145	0.157	0.159	0.140	12
Dibromochloromethane	0.258	0.274	0.284	0.302	0.320	0.321	0.293	8.7
1,2-Dibromoethane	0.199	0.189	0.207	0.215	0.223	0.225	0.210	6.8
Tetrachloroethene	0.433	0.417	0.433	0.429	0.429	0.413	0.426	2.1
Chlorobenzene	1.020	1.000	1.051	1.067	1.132	1.127	1.066	5.1
Ethyl Benzene	1.823	1.828	1.920	1.980	2.142	2.185	1.980	7.8
m/p-Xylenes	0.698	0.660	0.723	0.756	0.825	0.841	0.751	9.5
o-Xylene	0.654	0.637	0.673	0.709	0.768	0.792	0.705	8.9
Styrene	1.037	1.020	1.117	1.197	1.317	1.359	1.175	12.1
Bromoform	0.169	0.176	0.184	0.192	0.206	0.210	0.189	8.6
Isopropylbenzene	3.863	3.741	3.946	3.871	4.105	4.086	3.935	3.6
1,1,2,2-Tetrachloroethane	0.623	0.574	0.604	0.615	0.652	0.653	0.620	4.8
1,3-Dichlorobenzene	1.587	1.558	1.674	1.695	1.836	1.874	1.704	7.5
1,4-Dichlorobenzene	1.596	1.527	1.617	1.642	1.707	1.687	1.629	4
1,2-Dichlorobenzene	1.383	1.332	1.431	1.416	1.495	1.482	1.423	4.3
1,2-Dibromo-3-Chloropropane	0.103	0.093	0.096	0.093	0.093	0.096	0.096	3.8
1,2,4-Trichlorobenzene	0.714	0.724	0.771	0.828	0.842	0.856	0.789	7.8
1,2,3-Trichlorobenzene	0.575	0.554	0.644	0.684	0.703	0.722	0.647	10.7
1,2-Dichloroethane-d4	0.507	0.525	0.517	0.532	0.541	0.538	0.527	2.5
Dibromofluoromethane	0.287	0.281	0.283	0.290	0.309	0.308	0.293	4.3
Toluene-d8	1.159	1.133	1.168	1.176	1.274	1.251	1.194	4.7
4-Bromofluorobenzene	0.377	0.331	0.345	0.355	0.382	0.376	0.361	5.7

* 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.

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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

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	$\overline{RRF}$	% 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.

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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

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	$\overline{RRF}$	% 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.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: MSVOA_Y Calibration Date/Time: 05/29/2025 08:23

Lab File ID: VY022453.D Init. Calib. Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 08:50 10:44

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.477	0.443		-7.13	20
Chloromethane	1.173	1.080	0.1	-7.93	20
Vinyl Chloride	1.425	1.441		1.12	20
Bromomethane	1.295	1.134		-12.43	20
Chloroethane	0.932	0.992		6.44	20
Trichlorofluoromethane	1.203	1.195		-0.67	20
1,1,2-Trichlorotrifluoroethane	0.528	0.543		2.84	20
1,1-Dichloroethene	0.524	0.537		2.48	20
Acetone	0.087	0.104		19.54	20
Carbon Disulfide	1.672	1.727		3.29	20
Methyl tert-butyl Ether	1.391	1.429		2.73	20
Methyl Acetate	0.324	0.357		10.19	20
Methylene Chloride	0.611	0.599		-1.96	20
trans-1,2-Dichloroethene	0.572	0.593		3.67	20
1,1-Dichloroethane	1.028	1.100	0.1	7	20
Cyclohexane	1.013	0.984		-2.86	20
2-Butanone	0.144	0.156		8.33	20
Carbon Tetrachloride	0.484	0.508		4.96	20
cis-1,2-Dichloroethene	0.662	0.699		5.59	20
Bromochloromethane	0.429	0.474		10.49	20
Chloroform	1.013	1.070		5.63	20
1,1,1-Trichloroethane	0.919	0.965		5.01	20
Methylcyclohexane	0.618	0.621		0.49	20
Benzene	1.383	1.457		5.35	20
1,2-Dichloroethane	0.365	0.379		3.84	20
Trichloroethene	0.342	0.351		2.63	20
1,2-Dichloropropane	0.325	0.341		4.92	20
Bromodichloromethane	0.467	0.486		4.07	20
4-Methyl-2-Pentanone	0.213	0.219		2.82	20
Toluene	0.864	0.906		4.86	20
t-1,3-Dichloropropene	0.435	0.453		4.14	20
cis-1,3-Dichloropropene	0.511	0.531		3.91	20
1,1,2-Trichloroethane	0.229	0.235		2.62	20
2-Hexanone	0.140	0.147		5	20
Dibromochloromethane	0.293	0.307		4.78	20
1,2-Dibromoethane	0.210	0.214		1.9	20
Tetrachloroethene	0.426	0.446		4.7	20
Chlorobenzene	1.066	1.114	0.3	4.5	20

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

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: MSVOA_Y Calibration Date/Time: 05/29/2025 08:23

Lab File ID: VY022453.D Init. Calib. Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 08:50 10:44

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.980	2.068		4.44	20
m/p-Xylenes	0.751	0.779		3.73	20
o-Xylene	0.705	0.730		3.55	20
Styrene	1.175	1.240		5.53	20
Bromoform	0.189	0.192	0.1	1.59	20
Isopropylbenzene	3.935	4.134		5.06	20
1,1,2,2-Tetrachloroethane	0.620	0.610	0.3	-1.61	20
1,3-Dichlorobenzene	1.704	1.747		2.52	20
1,4-Dichlorobenzene	1.629	1.697		4.17	20
1,2-Dichlorobenzene	1.423	1.485		4.36	20
1,2-Dibromo-3-Chloropropane	0.096	0.093		-3.13	20
1,2,4-Trichlorobenzene	0.789	0.811		2.79	20
1,2,3-Trichlorobenzene	0.647	0.679		4.95	20
1,2-Dichloroethane-d4	0.527	0.542		2.85	20
Dibromofluoromethane	0.293	0.299		2.05	20
Toluene-d8	1.194	1.216		1.84	20
4-Bromofluorobenzene	0.361	0.361		0	20

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

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022460.D
Acq On : 29 May 2025 12:25
Operator : SY/MD
Sample : Q2150-01
Misc : 7.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-44

Quant Time: May 30 05:33:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

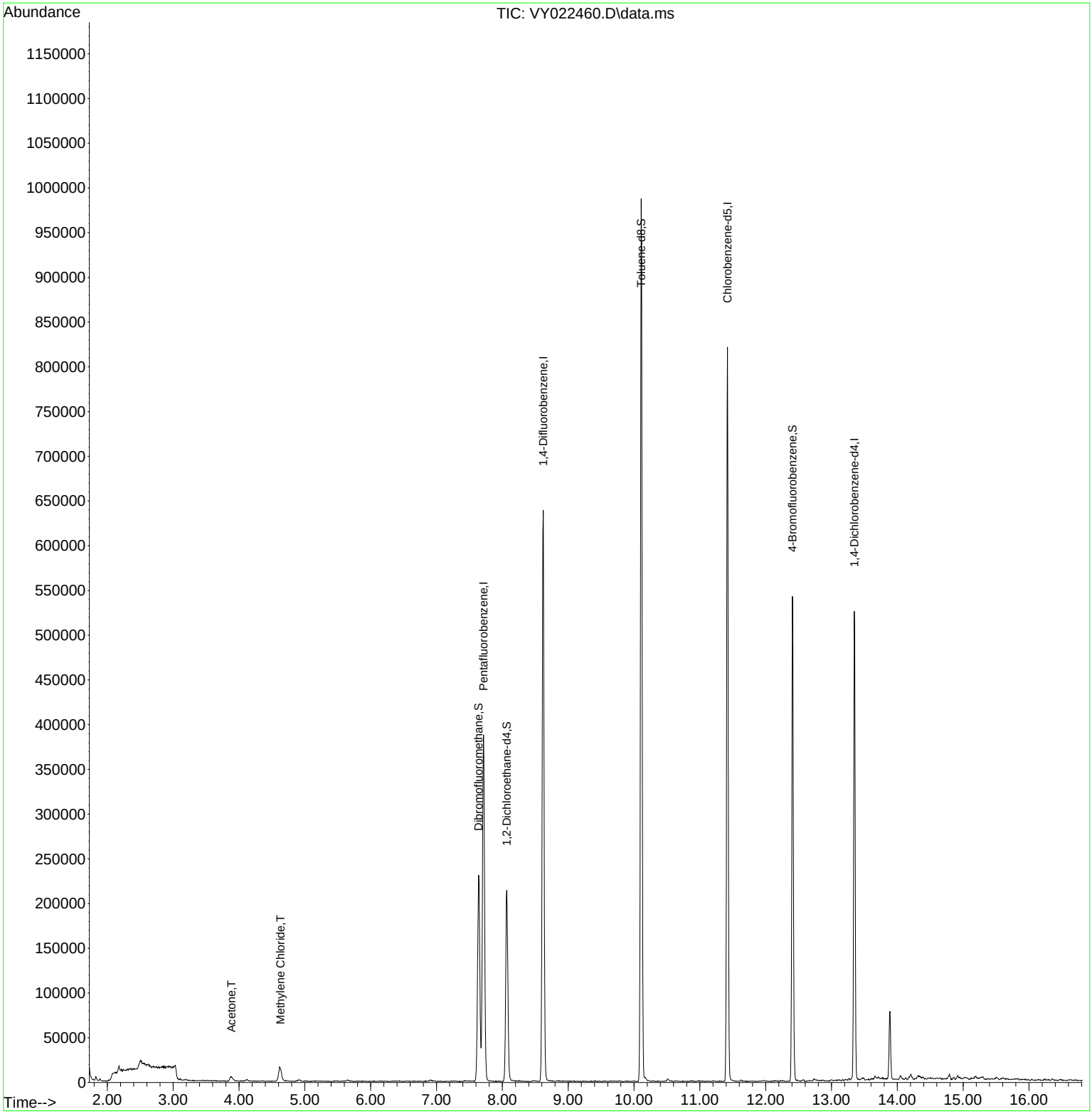
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	284770	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	525823	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	402756	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	123686	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	158622	52.883	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.760%			
35) Dibromofluoromethane	7.640	113	158238	51.386	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.780%			
50) Toluene-d8	10.109	98	619315	49.335	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.660%			
62) 4-Bromofluorobenzene	12.408	95	142942	37.644	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 75.280%			
Target Compounds						Qvalue
16) Acetone	3.885	43	9644	19.566	ug/l	95
20) Methylene Chloride	4.629	84	10949	3.146	ug/l	89

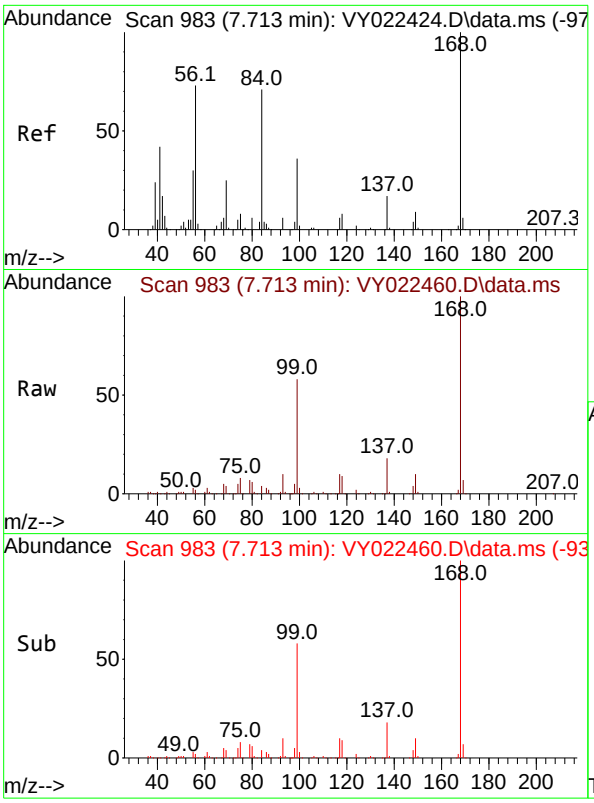
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022460.D
Acq On : 29 May 2025 12:25
Operator : SY/MD
Sample : Q2150-01
Misc : 7.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-44

Quant Time: May 30 05:33:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



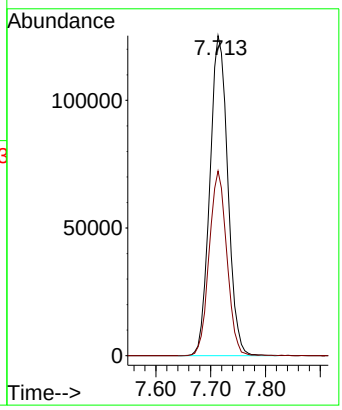


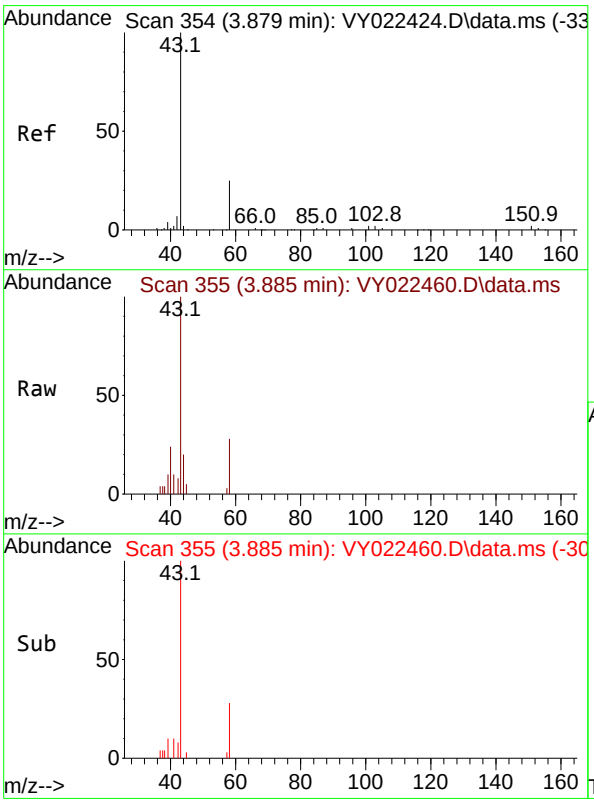
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022460.D
Acq: 29 May 2025 12:25

Instrument :
MSVOA_Y
ClientSampleId :
TP-44

Tgt Ion:168 Resp: 284770

Ion	Ratio	Lower	Upper
168	100		
99	57.7	44.7	67.1

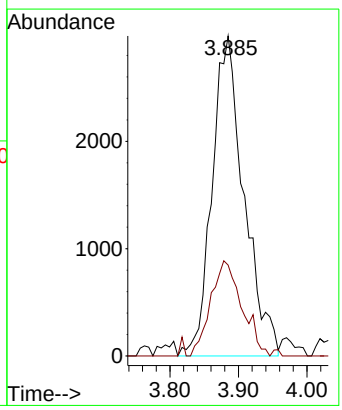


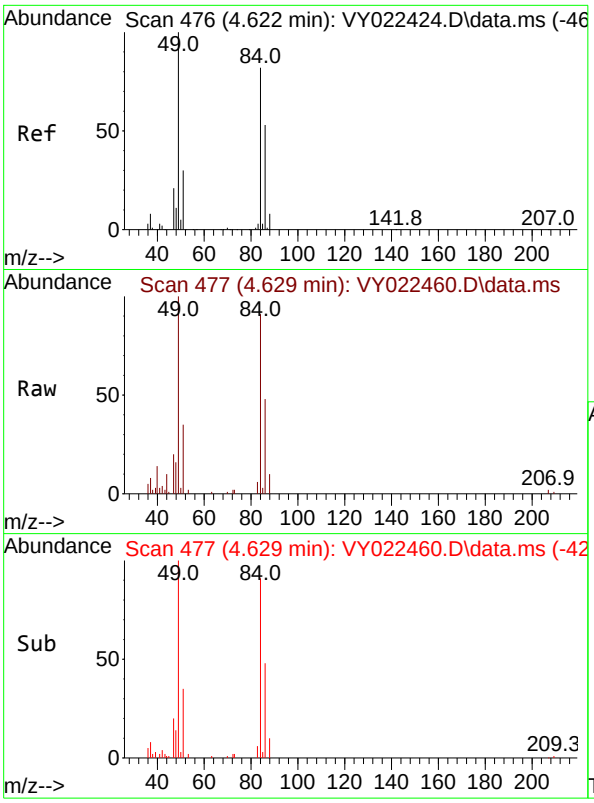


#16
Acetone
Concen: 19.566 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.006 min
Lab File: VY022460.D
Acq: 29 May 2025 12:25

Tgt Ion: 43 Resp: 9644

Ion	Ratio	Lower	Upper
43	100		
58	28.4	20.6	30.8



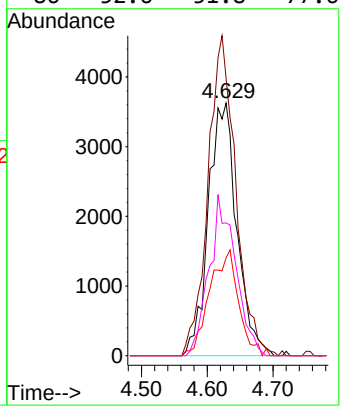


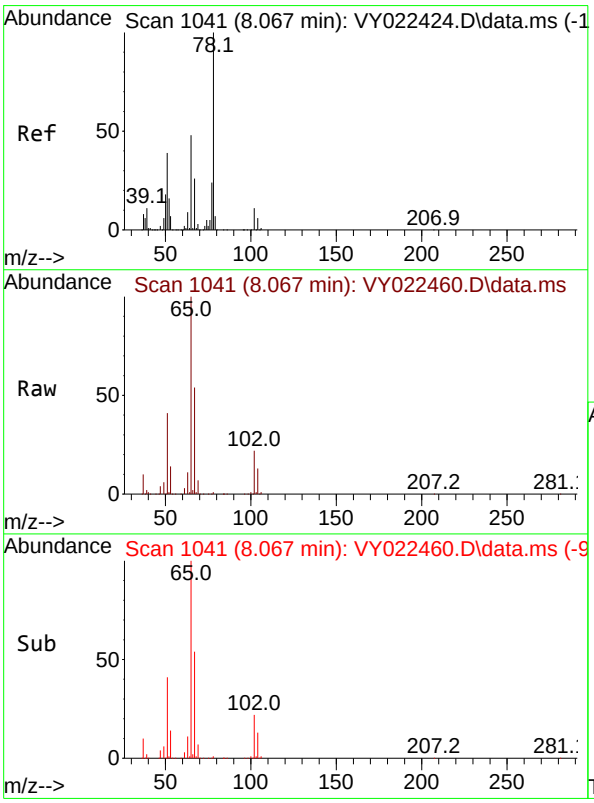
#20
Methylene Chloride
Concen: 3.146 ug/l
RT: 4.629 min Scan# 4
Delta R.T. 0.006 min
Lab File: VY022460.D
Acq: 29 May 2025 12:25

Instrument :
MSVOA_Y
ClientSampleId :
TP-44

Tgt Ion: 84 Resp: 10949

Ion	Ratio	Lower	Upper
84	100		
49	110.1	97.8	146.8
51	38.7	29.5	44.3
86	52.6	51.8	77.6

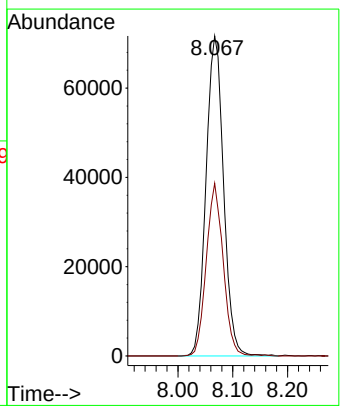


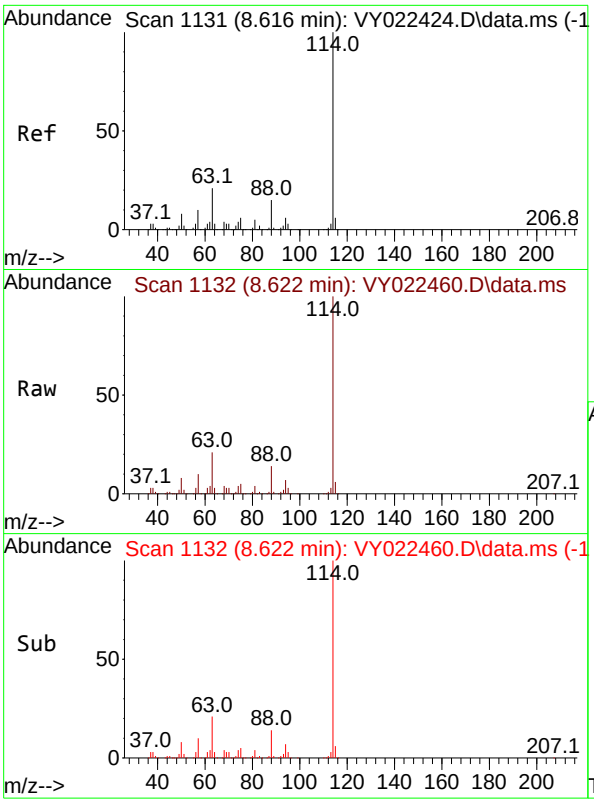


#33
1,2-Dichloroethane-d4
Concen: 52.883 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY022460.D
Acq: 29 May 2025 12:25

Tgt Ion: 65 Resp: 158622

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	104.4



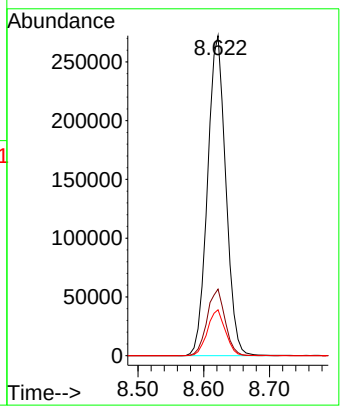


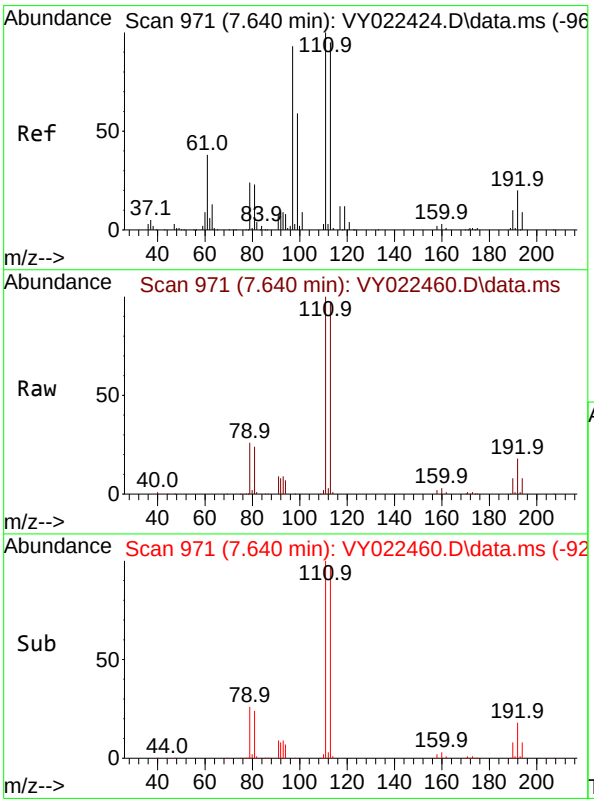
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022460.D
Acq: 29 May 2025 12:25

Instrument :
MSVOA_Y
ClientSampleId :
TP-44

Tgt Ion:114 Resp: 525823

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	42.6
88	14.3	0.0	29.4

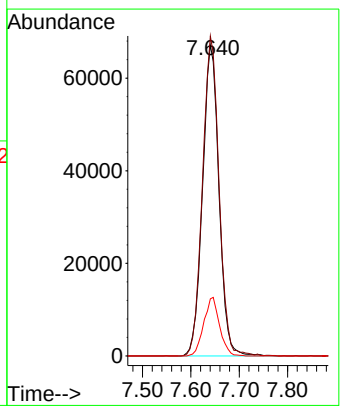


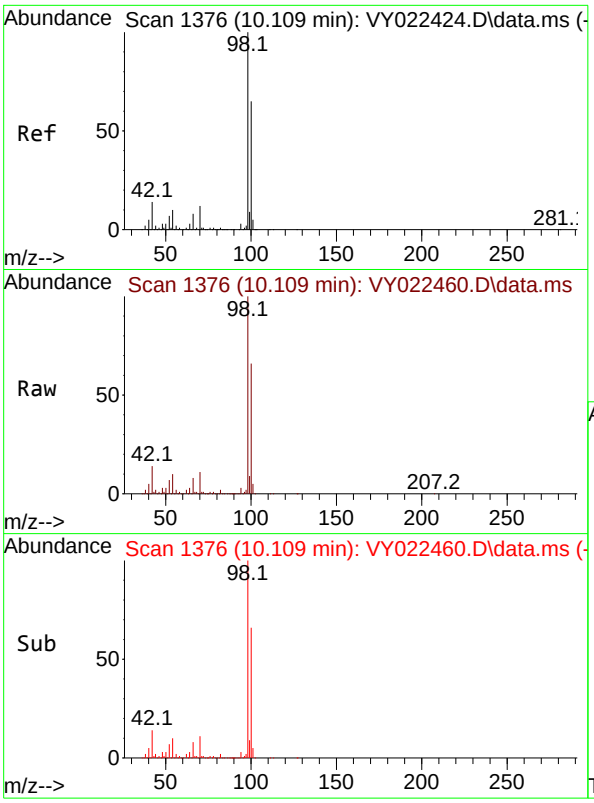


#35
Dibromofluoromethane
Concen: 51.386 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.000 min
Lab File: VY022460.D
Acq: 29 May 2025 12:25

Tgt Ion:113 Resp: 158238

Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.4	123.6
192	18.2	15.2	22.8



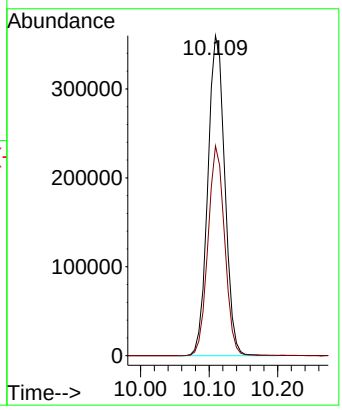


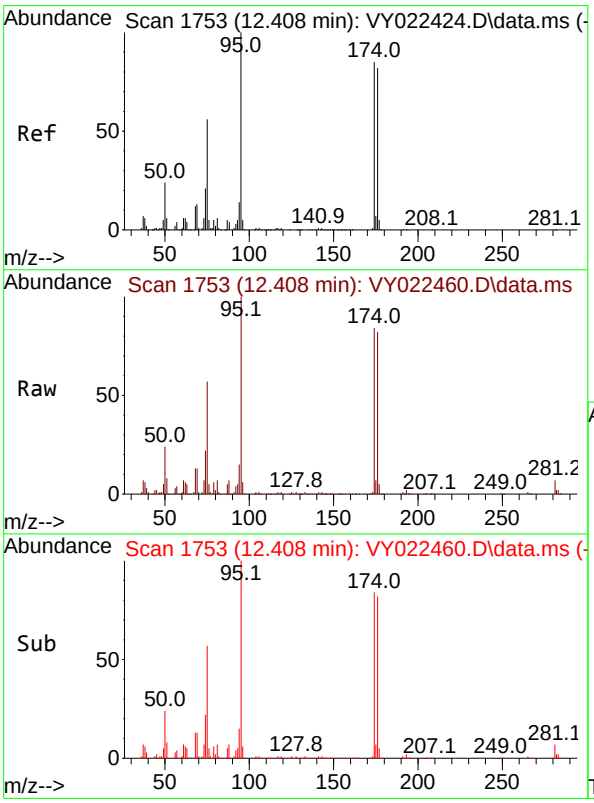
#50
Toluene-d8
Concen: 49.335 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022460.D
Acq: 29 May 2025 12:25

Instrument :
MSVOA_Y
ClientSampleId :
TP-44

Tgt Ion: 98 Resp: 619315

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2

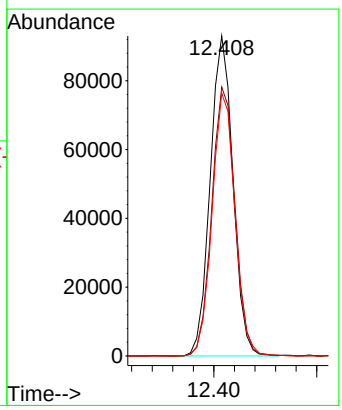


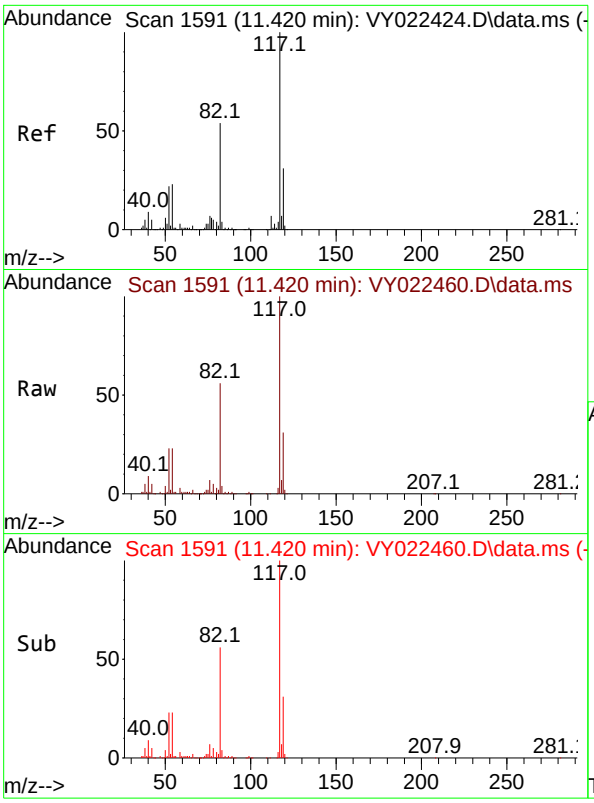


#62
4-Bromofluorobenzene
Concen: 37.644 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022460.D
Acq: 29 May 2025 12:25

Tgt Ion: 95 Resp: 142942

Ion	Ratio	Lower	Upper
95	100		
174	86.0	0.0	171.6
176	82.6	0.0	164.6



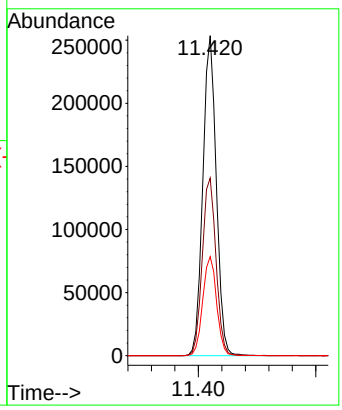


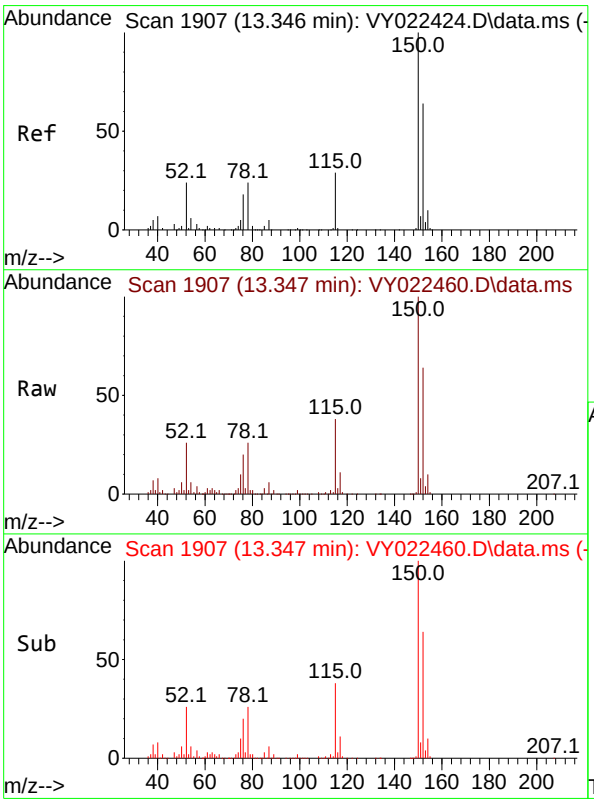
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022460.D
Acq: 29 May 2025 12:25

Instrument :
MSVOA_Y
ClientSampleId :
TP-44

Tgt Ion:117 Resp: 402756

Ion	Ratio	Lower	Upper
117	100		
82	55.5	43.3	64.9
119	30.9	24.5	36.7

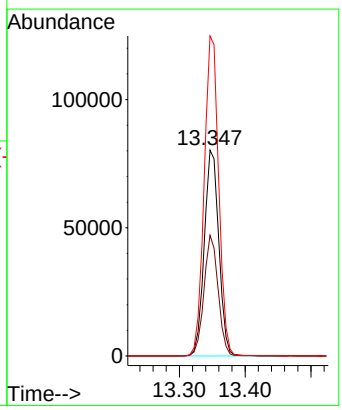




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022460.D
Acq: 29 May 2025 12:25

Tgt Ion:152 Resp: 123686

Ion	Ratio	Lower	Upper
152	100		
115	56.9	28.4	85.3
150	155.1	0.0	345.8



Sample Results: **VY022460.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022460.D
Acq On : 29 May 2025 12:25
Operator : SY/MD
Sample : Q2150-01
Misc : 7.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-44

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\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022460.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.507	121	129	133	rBV5	8935	25288	1.49%	0.314%
2	4.616	466	475	489	rBV5	15842	48558	2.87%	0.603%
3	7.640	961	971	977	rBV2	230589	547562	32.31%	6.795%
4	7.713	977	983	997	rVB	386748	872771	51.50%	10.831%
5	8.067	1032	1041	1052	rBV	213881	481395	28.41%	5.974%
6	8.622	1122	1132	1144	rBV	638571	1249760	73.75%	15.509%
7	10.109	1368	1376	1385	rBV	986827	1694685	100.00%	21.030%
8	11.420	1583	1591	1601	rBV	820917	1324822	78.18%	16.440%
9	12.408	1746	1753	1763	rBV2	541984	881083	51.99%	10.934%
10	13.347	1896	1907	1916	rBV	524048	807802	47.67%	10.024%
11	13.889	1988	1996	2002	rBV2	75874	124673	7.36%	1.547%

Sum of corrected areas: 8058399

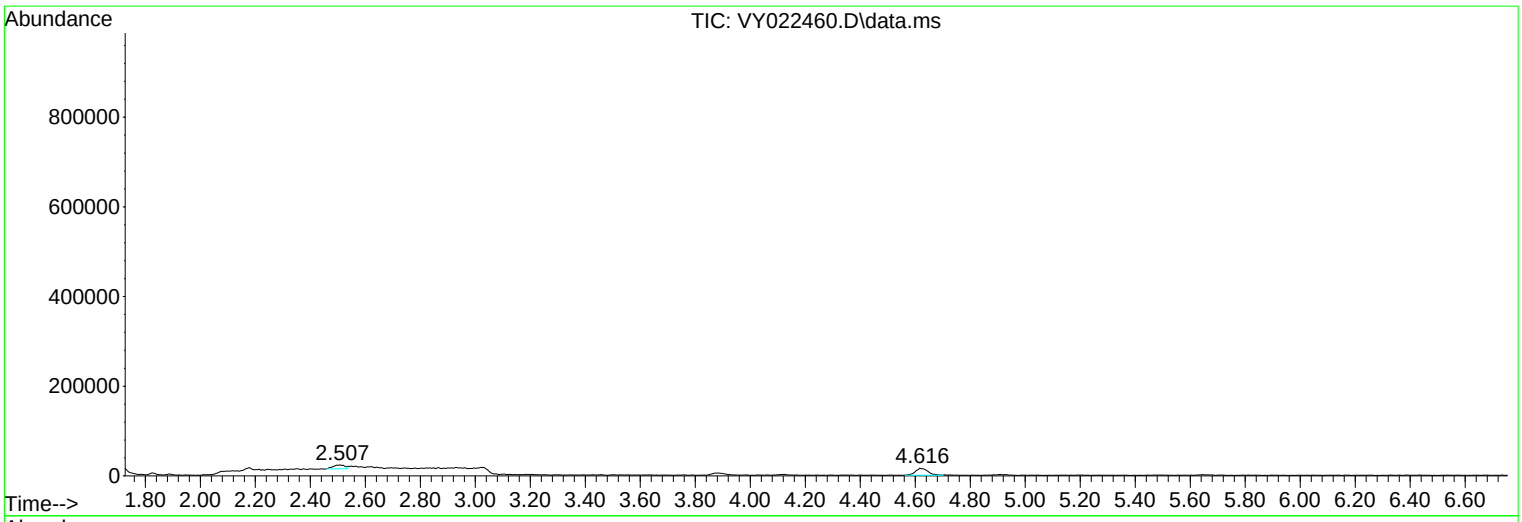
Sample Results: **VY022460.D**

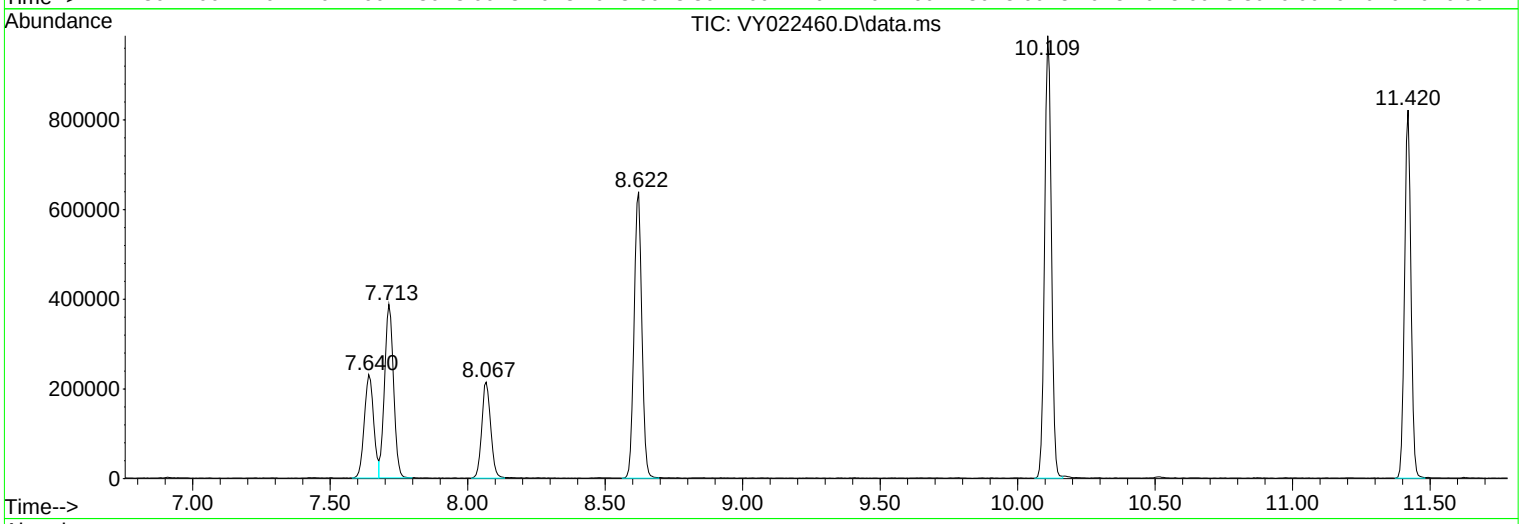
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022460.D
Acq On : 29 May 2025 12:25
Operator : SY/MD
Sample : Q2150-01
Misc : 7.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

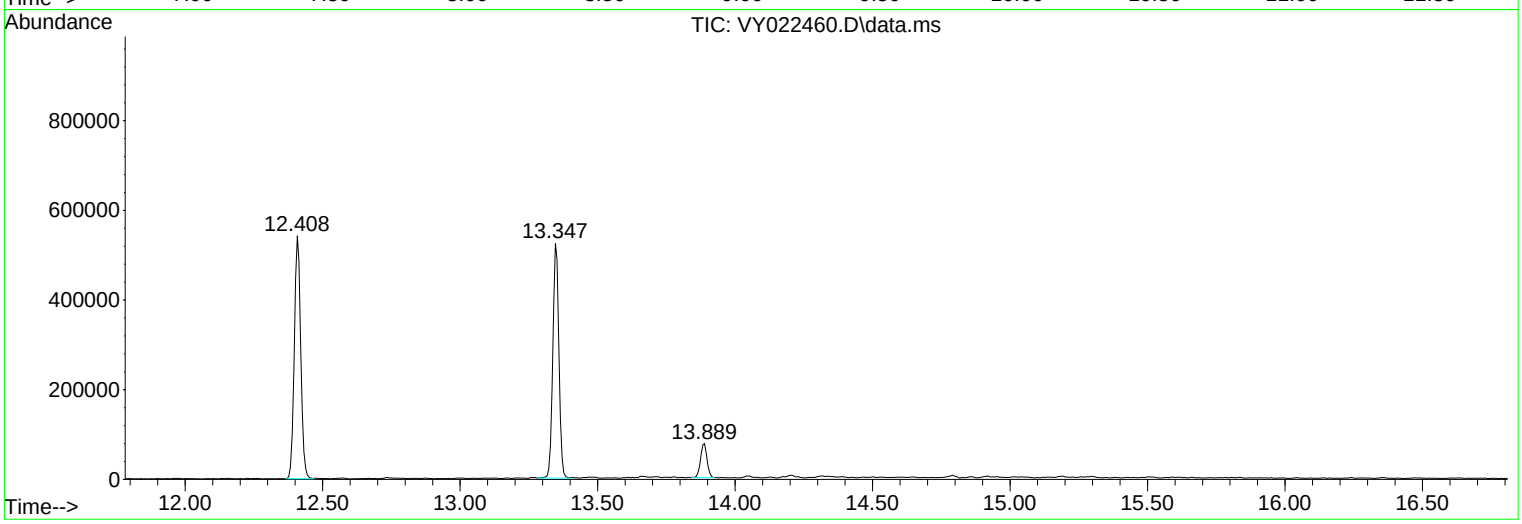
Instrument :
MSVOA_Y
ClientSampleId :
TP-44

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022460.D
Acq On : 29 May 2025 12:25
Operator : SY/MD
Sample : Q2150-01
Misc : 7.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-44

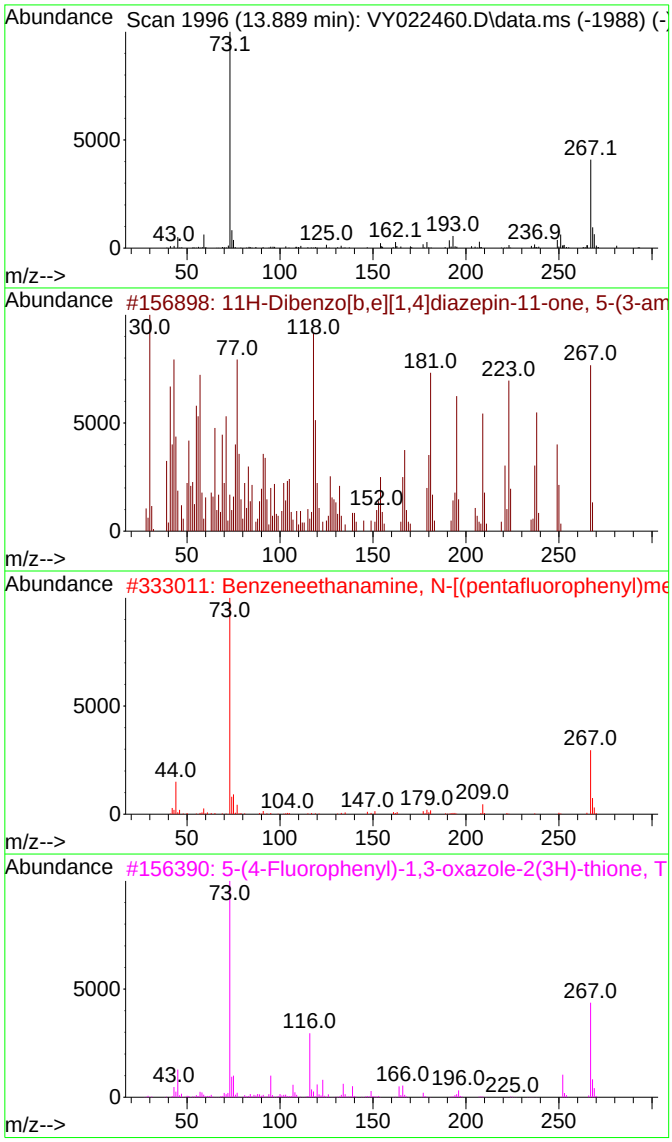
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

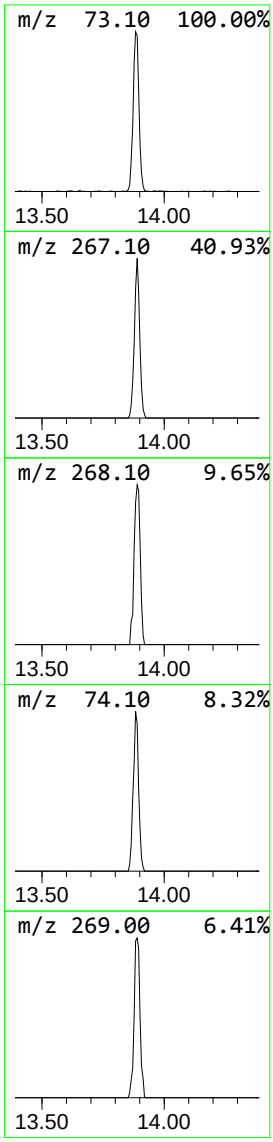
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	7.72 ug/l	124673	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	60
2	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	59
3	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	59
4	4-Hydroxybenzoic acid, 2TMS deri...	282	C13H22O3Si2	002078-13-9	42
5	2-Pyrazinecarbohydrazide, 2 TMS ...	282	C11H22N4OSi2	1000477-45-2	42





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022460.D
Acq On : 29 May 2025 12:25
Operator : SY/MD
Sample : Q2150-01
Misc : 7.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-44

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
11H-Dibenzo[b,e...	13.889	7.7	ug/l	124673	4	13.347	807802	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022506.D
Acq On : 02 Jun 2025 18:44
Operator : SY/MD
Sample : Q2150-02
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

Quant Time: Jun 03 04:09:59 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

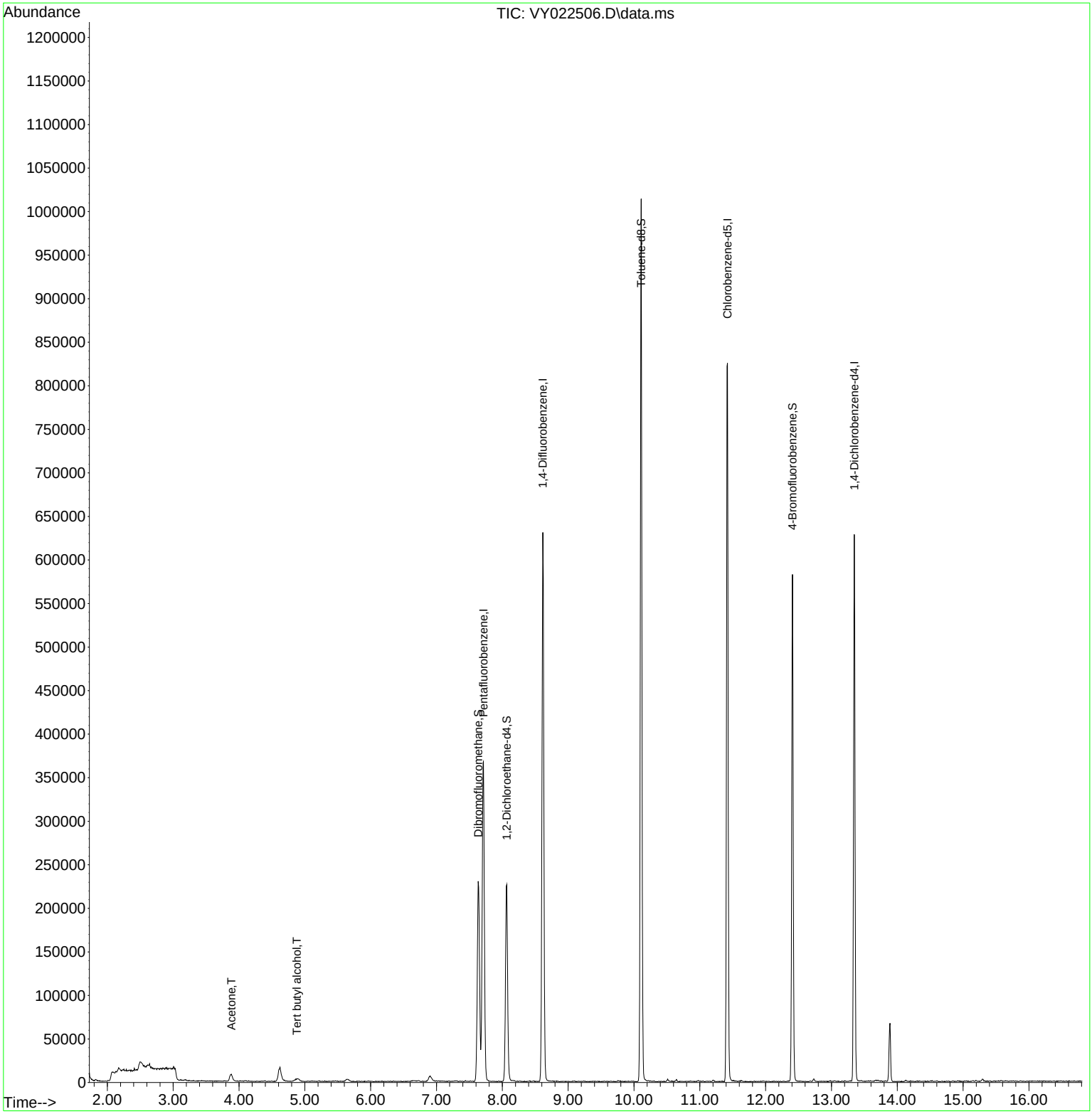
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	279093	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	514728	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	411552	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	142944	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	170529	54.630	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.260%			
35) Dibromofluoromethane	7.634	113	159229	51.827	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.660%			
50) Toluene-d8	10.109	98	621468	50.062	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.120%			
62) 4-Bromofluorobenzene	12.408	95	154197	41.689	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 83.380%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.878	59	4623	20.736	ug/l	96
16) Acetone	3.885	43	14916	23.529	ug/l	99

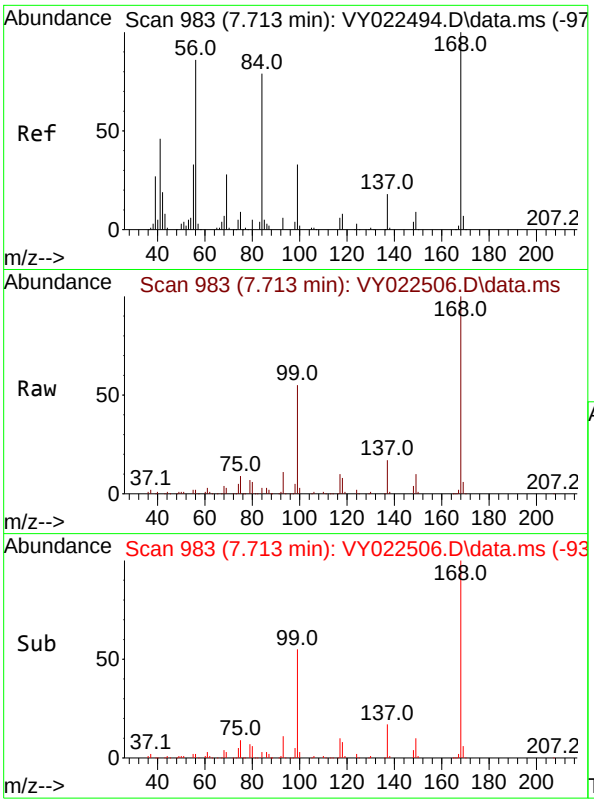
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022506.D
Acq On : 02 Jun 2025 18:44
Operator : SY/MD
Sample : Q2150-02
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

Quant Time: Jun 03 04:09:59 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



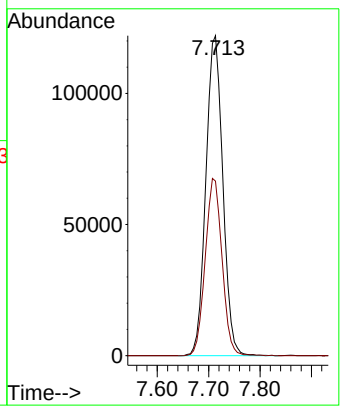


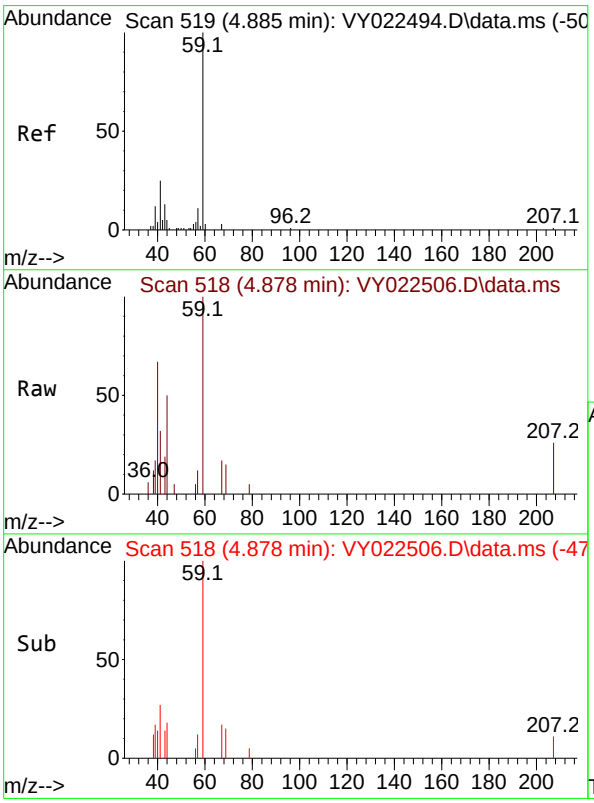
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 18:44

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

Tgt Ion:168 Resp: 279093

Ion	Ratio	Lower	Upper
168	100		
99	54.5	44.3	66.5

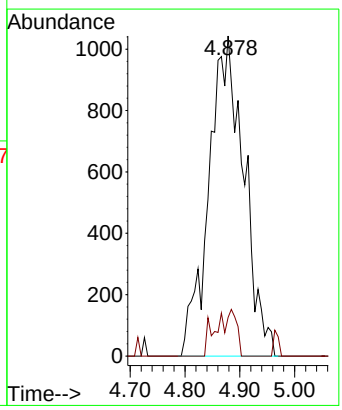


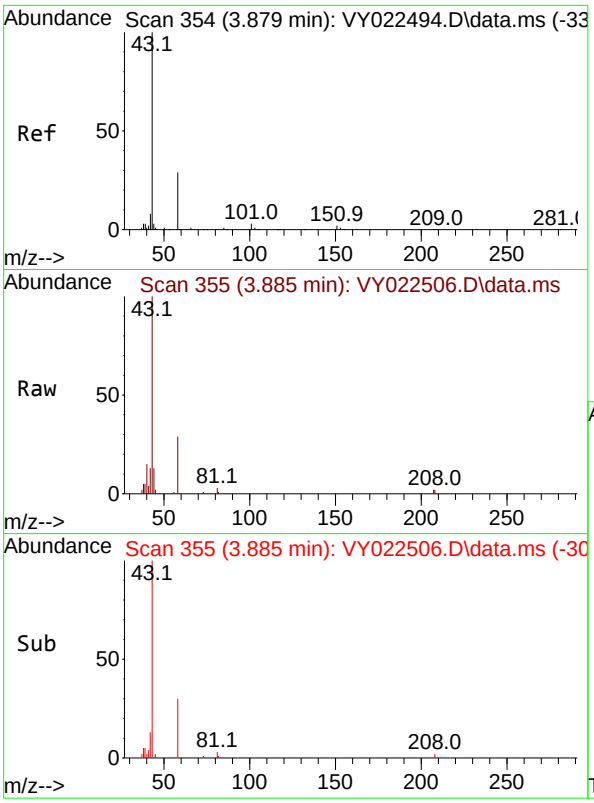


#11
Tert butyl alcohol
Concen: 20.736 ug/l
RT: 4.878 min Scan# 518
Delta R.T. -0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 18:44

Tgt Ion: 59 Resp: 4623

Ion	Ratio	Lower	Upper
59	100		
57	8.4	8.0	12.0



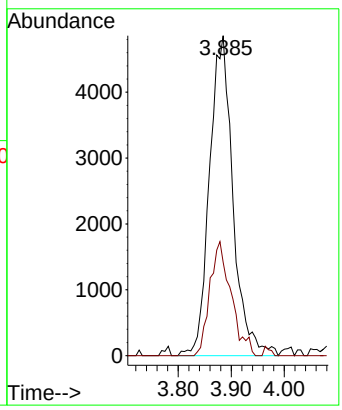


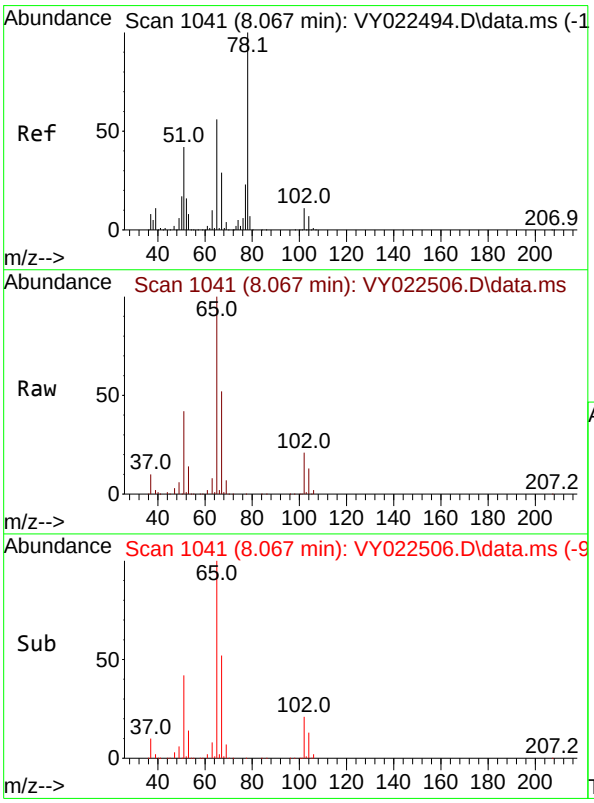
#16
Acetone
Concen: 23.529 ug/l
RT: 3.885 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 18:44

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

Tgt Ion: 43 Resp: 14916

Ion	Ratio	Lower	Upper
43	100		
58	29.2	24.0	36.0

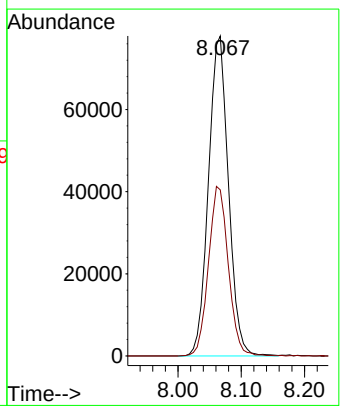


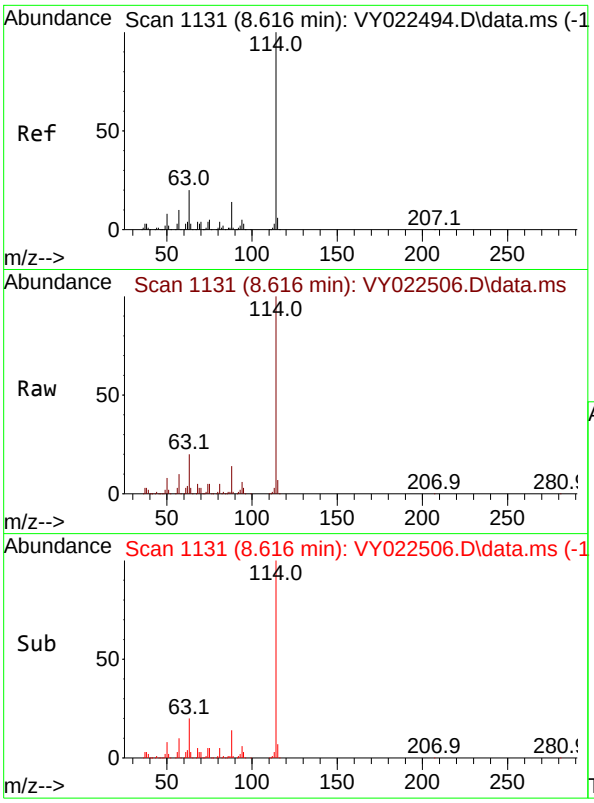


#33
1,2-Dichloroethane-d4
Concen: 54.630 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 18:44

Tgt Ion: 65 Resp: 170529

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	103.4



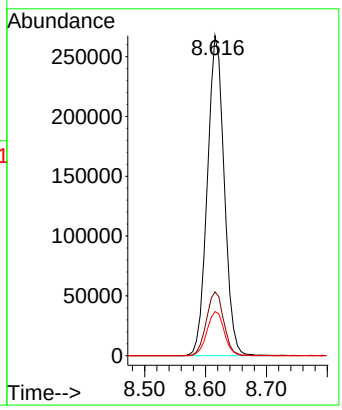


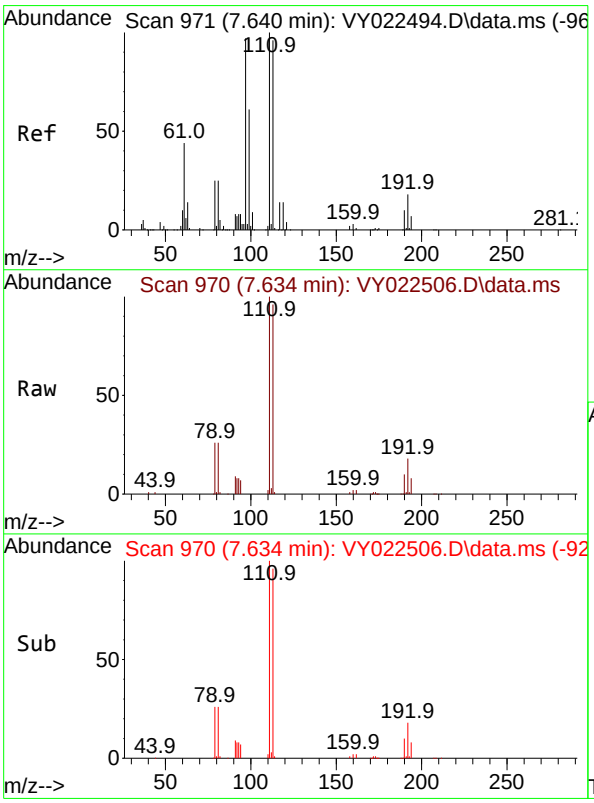
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 18:44

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

Tgt Ion:114 Resp: 514728

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.8
88	13.8	0.0	27.8

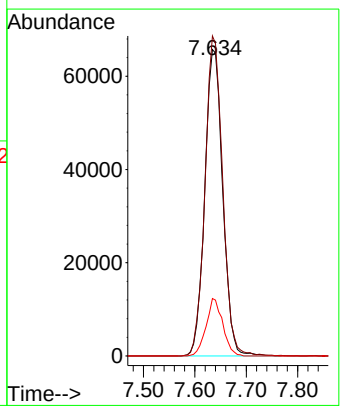


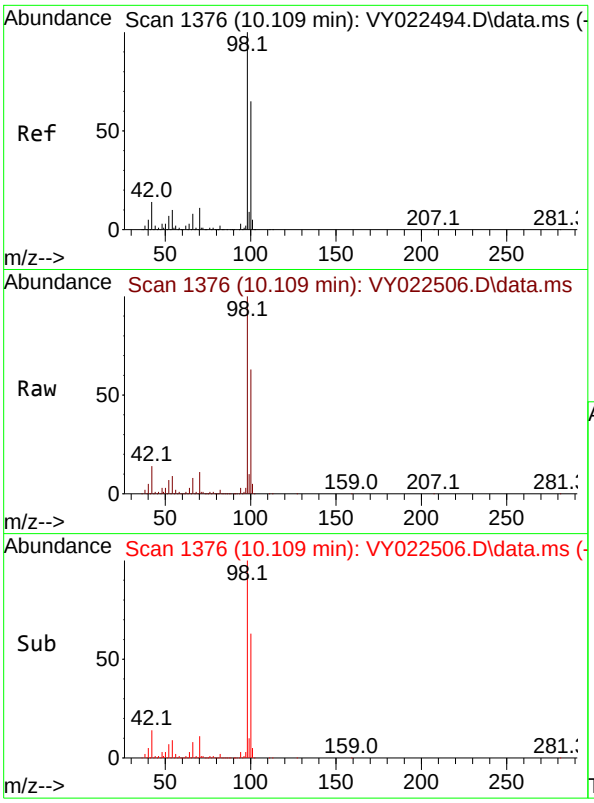


#35
Dibromofluoromethane
Concen: 51.827 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 18:44

Tgt Ion:113 Resp: 159229

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.1	121.7
192	17.4	14.2	21.2



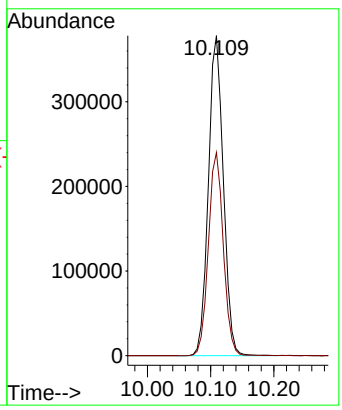


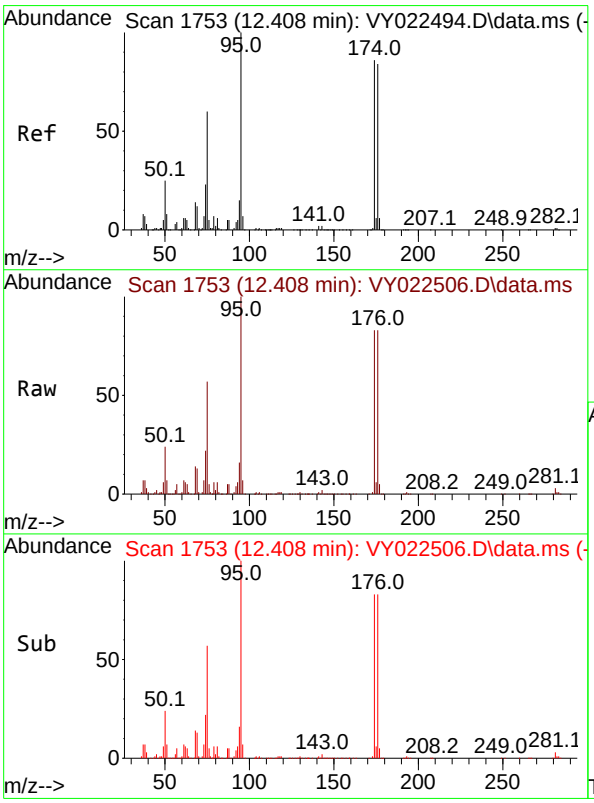
#50
Toluene-d8
Concen: 50.062 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 18:44

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

Tgt Ion: 98 Resp: 621468

Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.4	77.0

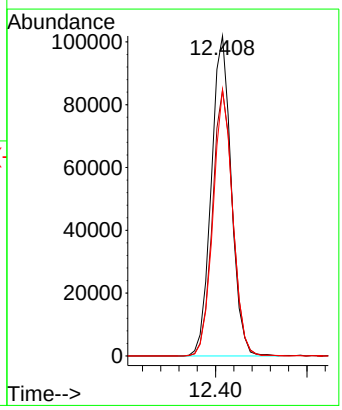


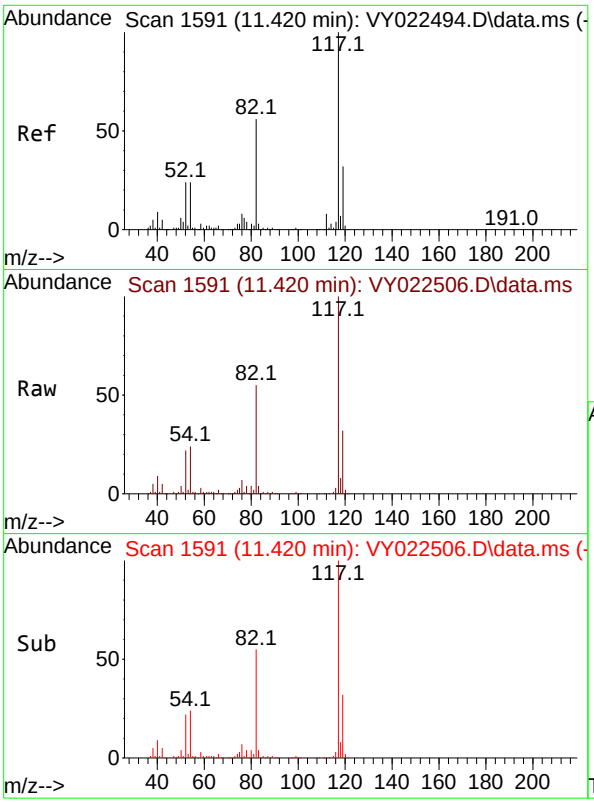


#62
4-Bromofluorobenzene
Concen: 41.689 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 18:44

Tgt Ion: 95 Resp: 154197

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	170.0
176	82.0	0.0	166.2



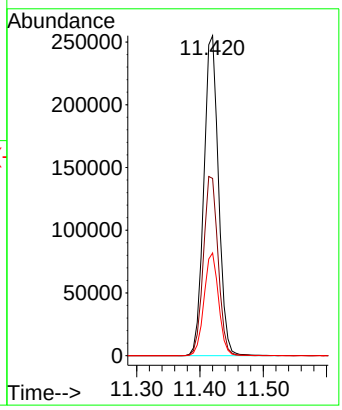


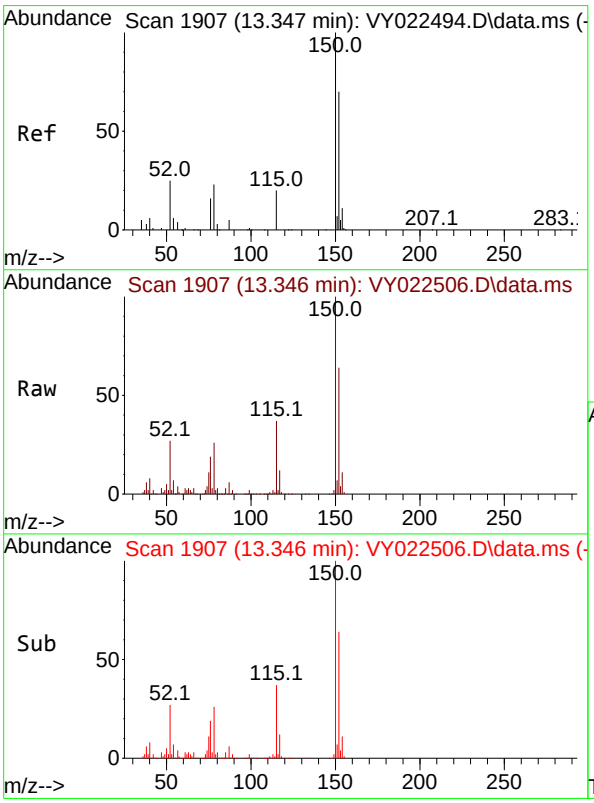
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 18:44

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

Tgt Ion:117 Resp: 411552

Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.6	66.8
119	32.1	25.4	38.0

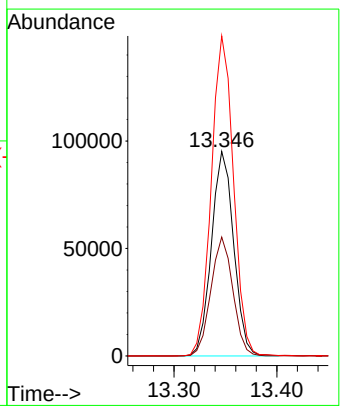




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 18:44

Tgt Ion:152 Resp: 142944

Ion	Ratio	Lower	Upper
152	100		
115	57.5	28.9	86.7
150	155.9	0.0	349.6



Sample Results: **VY022506.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022506.D
Acq On : 02 Jun 2025 18:44
Operator : SY/MD
Sample : Q2150-02
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

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: VY022506.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	50	59	64	rBV3	10041	35503	2.11%	0.428%
2	2.172	69	74	81	rVV7	5636	18645	1.11%	0.225%
3	2.495	122	127	136	rBV4	7990	28665	1.70%	0.345%
4	3.885	346	355	367	rVB2	8047	24323	1.44%	0.293%
5	4.622	464	476	486	rBV2	16331	51576	3.06%	0.621%
6	6.902	842	850	859	rBV4	6074	18735	1.11%	0.226%
7	7.634	959	970	976	rBV	230132	547681	32.52%	6.595%
8	7.713	976	983	993	rVB	365818	845274	50.20%	10.179%
9	8.067	1031	1041	1053	rBV	226017	504192	29.94%	6.072%
10	8.616	1121	1131	1143	rBV	630553	1225141	72.75%	14.754%
11	10.109	1366	1376	1392	rBV	1013861	1683968	100.00%	20.279%
12	11.420	1583	1591	1602	rBV	824958	1359770	80.75%	16.375%
13	12.408	1744	1753	1764	rBV	582027	904370	53.70%	10.891%
14	13.346	1900	1907	1916	rBV	627713	946671	56.22%	11.400%
15	13.889	1989	1996	2004	rVB2	66978	109545	6.51%	1.319%

Sum of corrected areas: 8304059

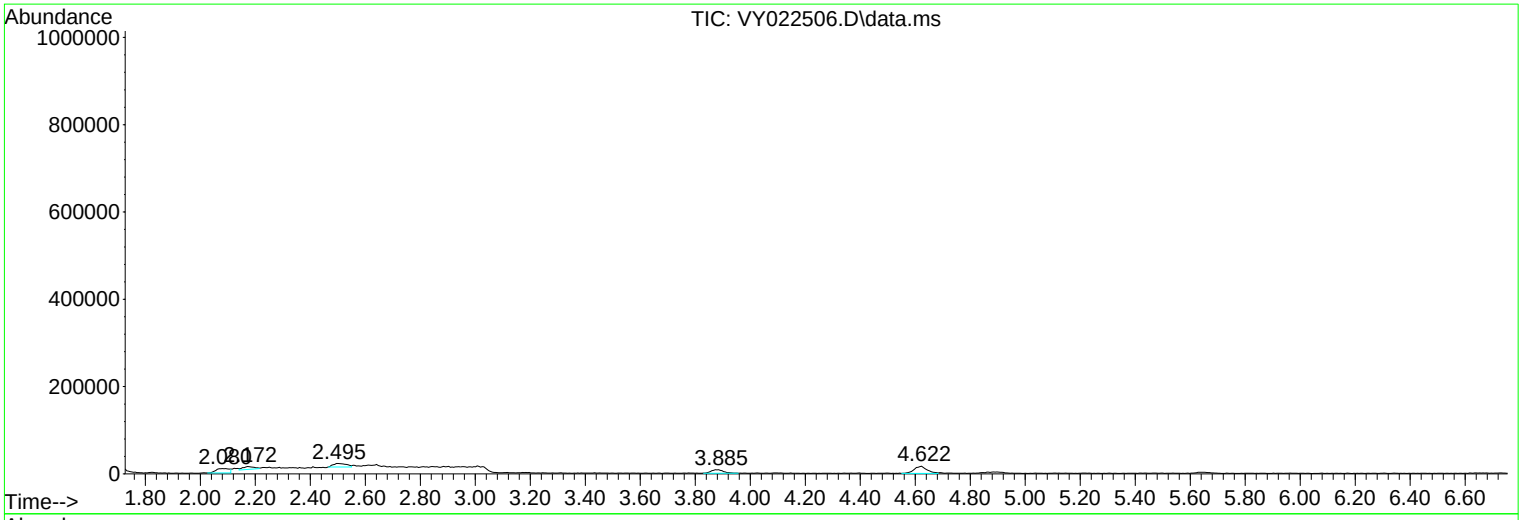
Sample Results: **VY022506.D**

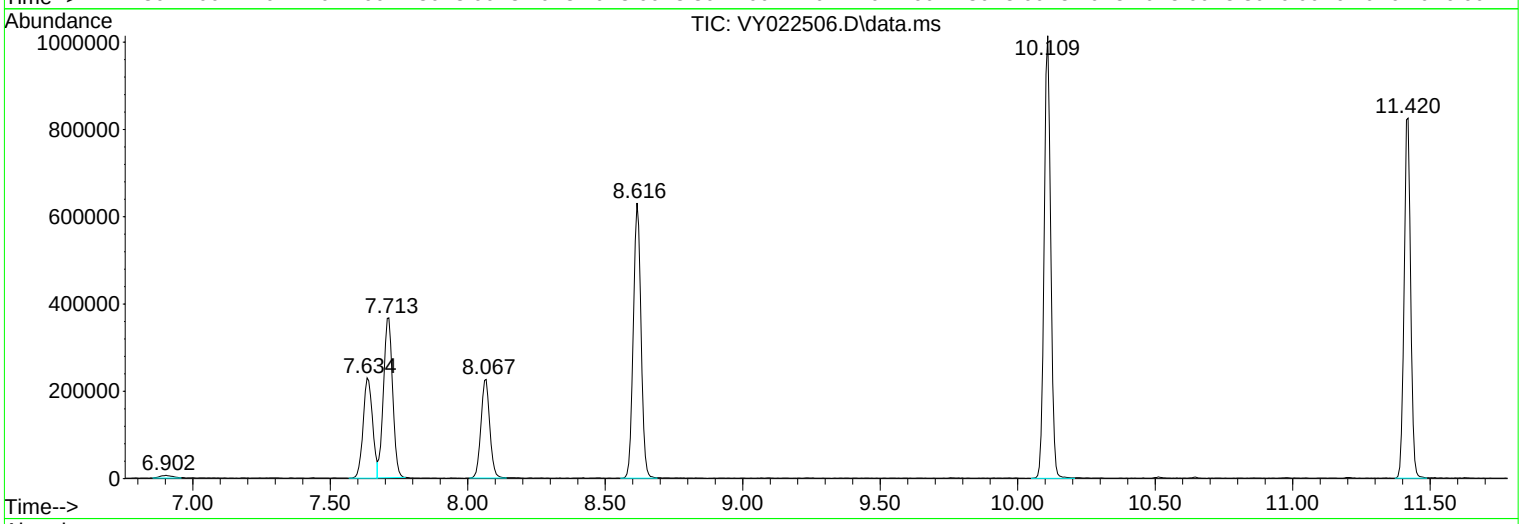
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022506.D
Acq On : 02 Jun 2025 18:44
Operator : SY/MD
Sample : Q2150-02
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

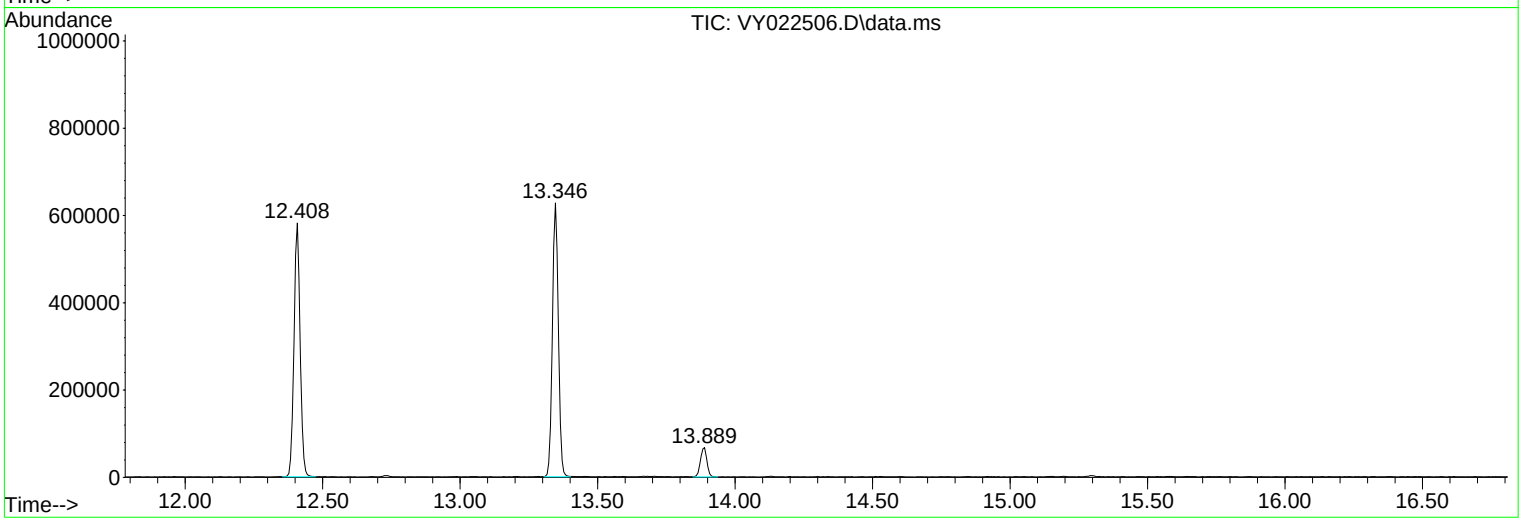
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

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

TIC Library :
TIC Integration Parameters: RTEINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022506.D
Acq On : 02 Jun 2025 18:44
Operator : SY/MD
Sample : Q2150-02
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

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

TIC Library :
TIC Integration Parameters: RTEINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022506.D
Acq On : 02 Jun 2025 18:44
Operator : SY/MD
Sample : Q2150-02
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

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

TIC Library :
TIC Integration Parameters: RTEINT.P

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022462.D
Acq On : 29 May 2025 13:12
Operator : SY/MD
Sample : Q2150-03
Misc : 7.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Quant Time: May 30 05:34:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

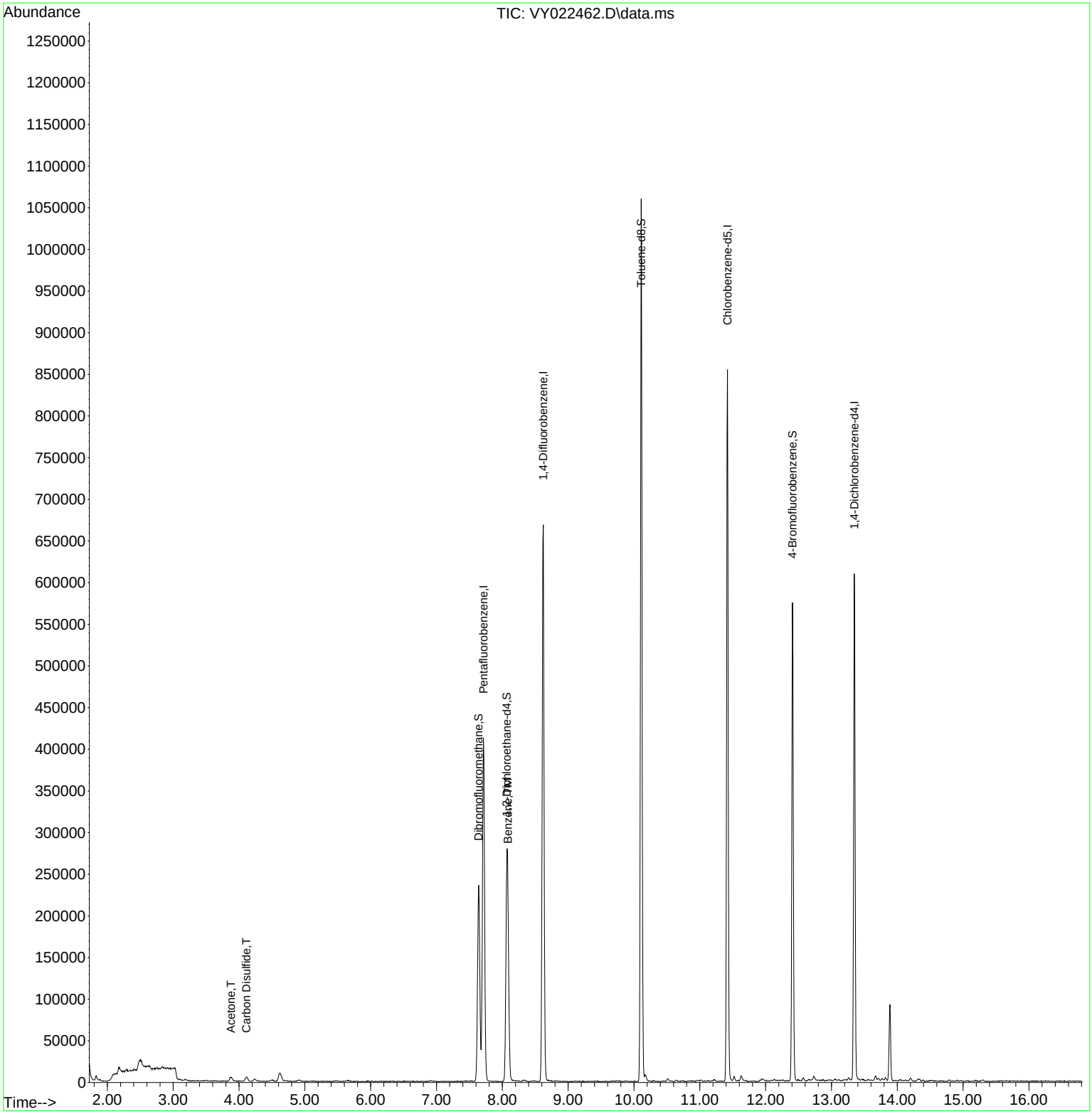
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	305036	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	550366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	413432	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	137454	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	155110	48.276	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.560%			
35) Dibromofluoromethane	7.640	113	160938	49.933	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.860%			
50) Toluene-d8	10.109	98	654242	49.793	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.580%			
62) 4-Bromofluorobenzene	12.408	95	150107	37.768	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 75.540%			
Target Compounds						Qvalue
16) Acetone	3.879	43	9000	17.046	ug/l	100
17) Carbon Disulfide	4.110	76	10283	1.008	ug/l #	95
40) Benzene	8.085	78	133528	8.774	ug/l	99

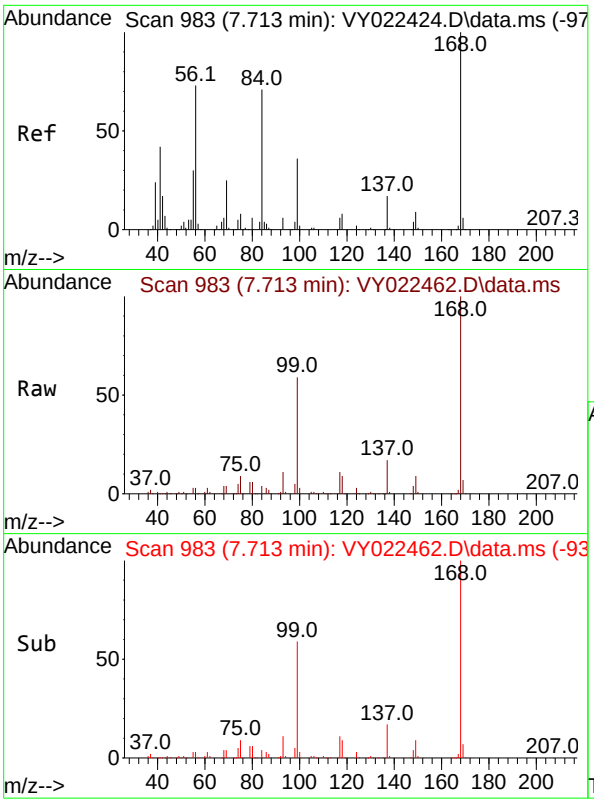
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022462.D
Acq On : 29 May 2025 13:12
Operator : SY/MD
Sample : Q2150-03
Misc : 7.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Quant Time: May 30 05:34:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



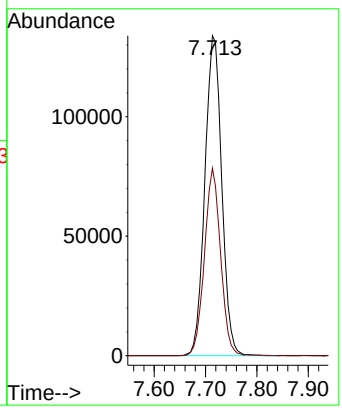


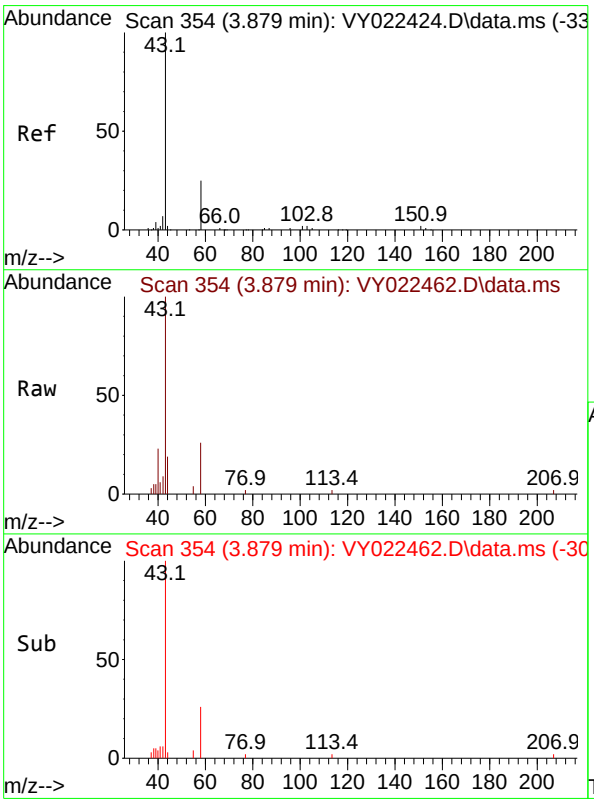
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Tgt Ion:168 Resp: 305036

Ion	Ratio	Lower	Upper
168	100		
99	58.6	44.7	67.1

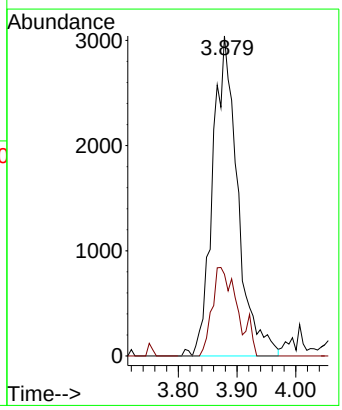


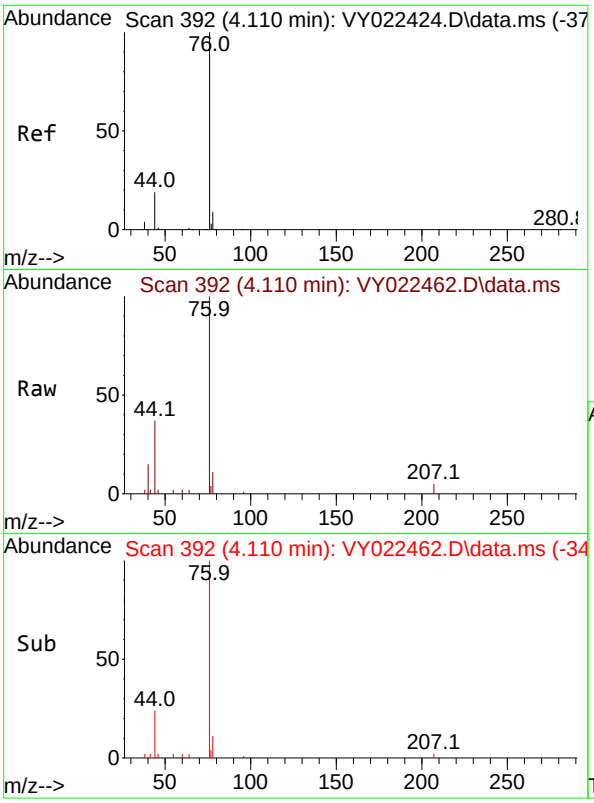


#16
Acetone
Concen: 17.046 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Tgt Ion: 43 Resp: 9000

Ion	Ratio	Lower	Upper
43	100		
58	25.6	20.6	30.8



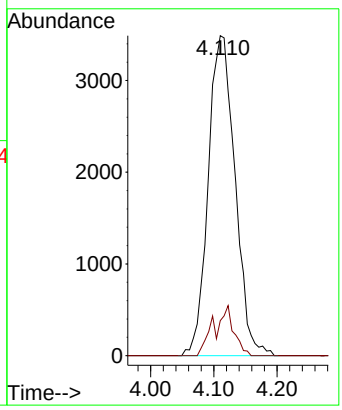


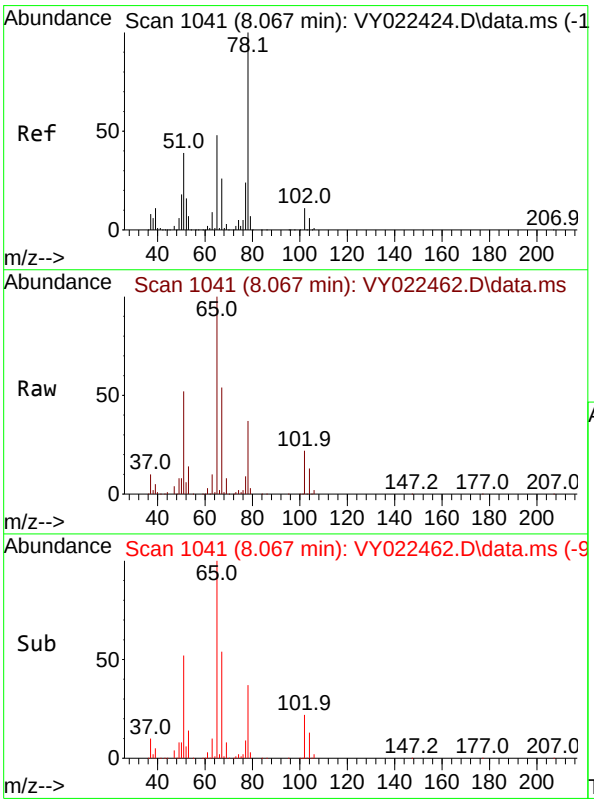
#17
Carbon Disulfide
Concen: 1.008 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Tgt Ion: 76 Resp: 10283

Ion	Ratio	Lower	Upper
76	100		
78	10.9	7.2	10.8#

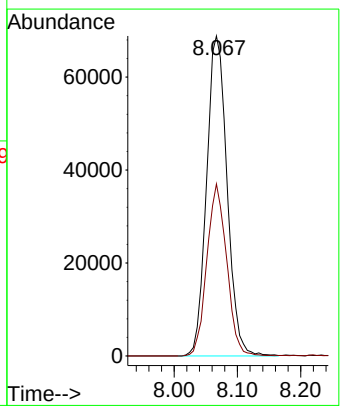


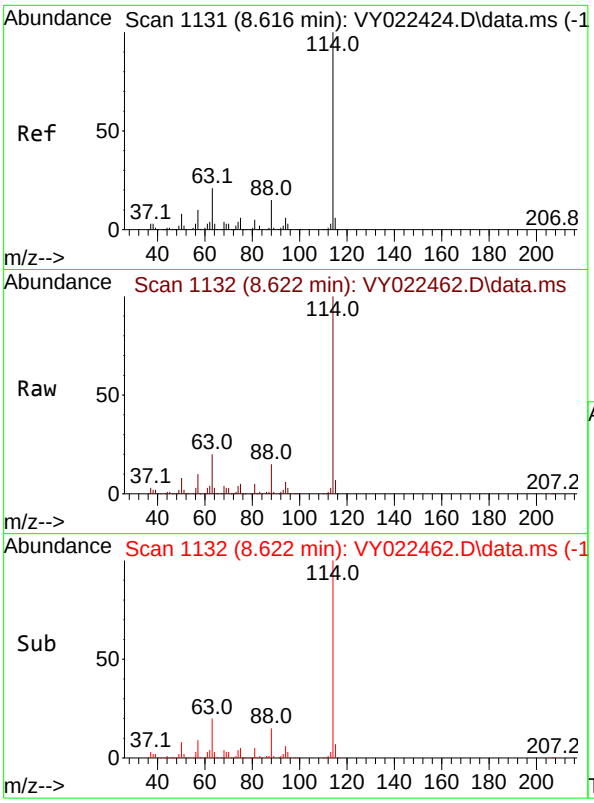


#33
1,2-Dichloroethane-d4
Concen: 48.276 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Tgt Ion: 65 Resp: 155110

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.4



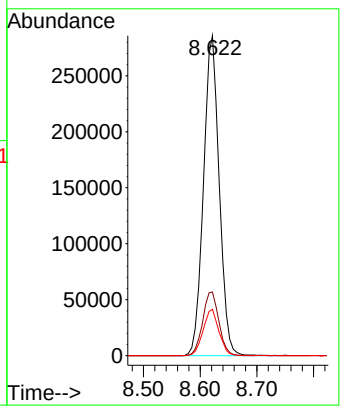


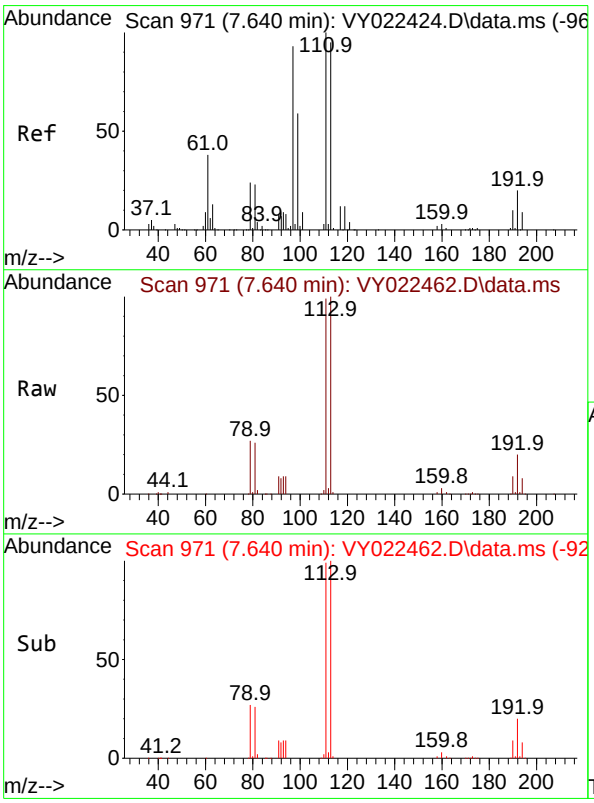
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Tgt Ion:114 Resp: 550366

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.6
88	14.5	0.0	29.4

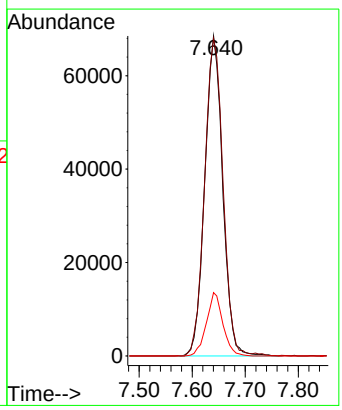


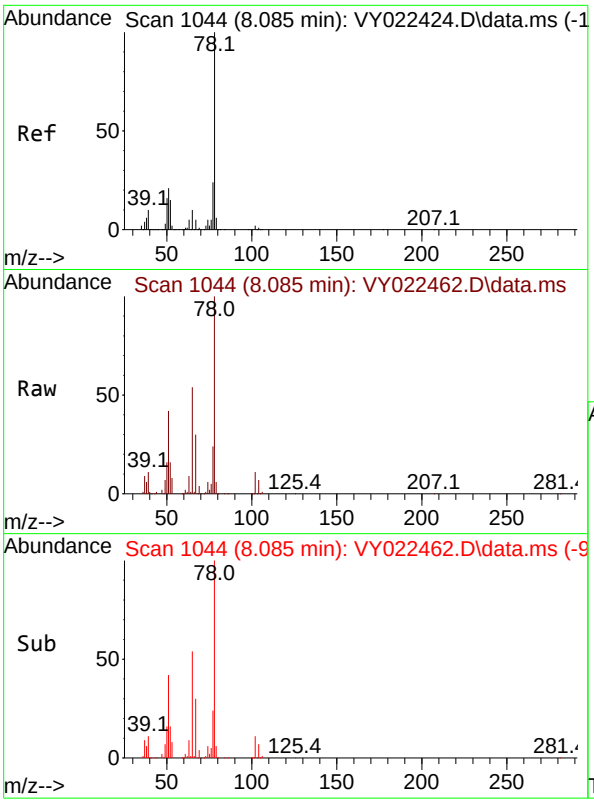


#35
Dibromofluoromethane
Concen: 49.933 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.000 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Tgt Ion:113 Resp: 160938

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.4	123.6
192	18.2	15.2	22.8



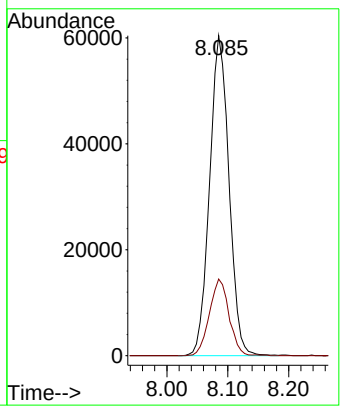


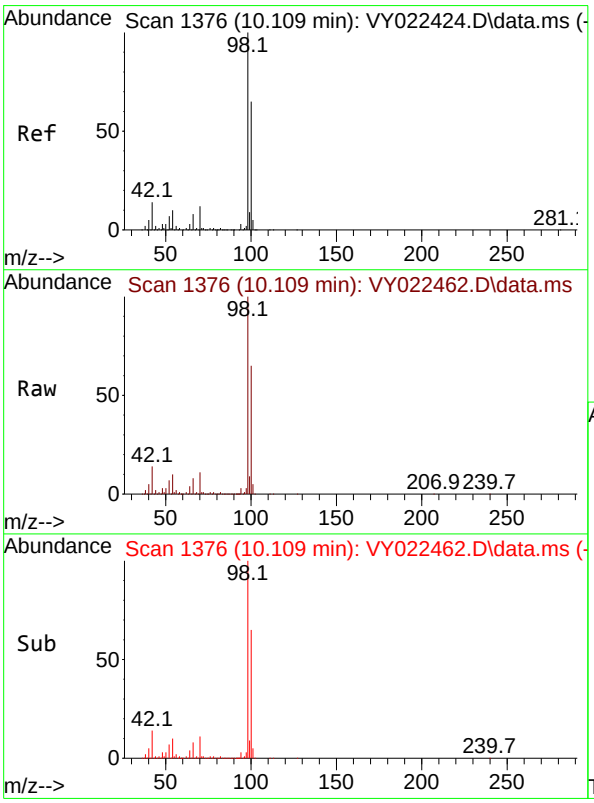
#40
Benzene
Concen: 8.774 ug/l
RT: 8.085 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Tgt Ion: 78 Resp: 133528

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.4	29.2

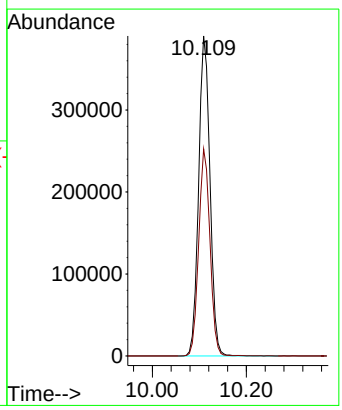


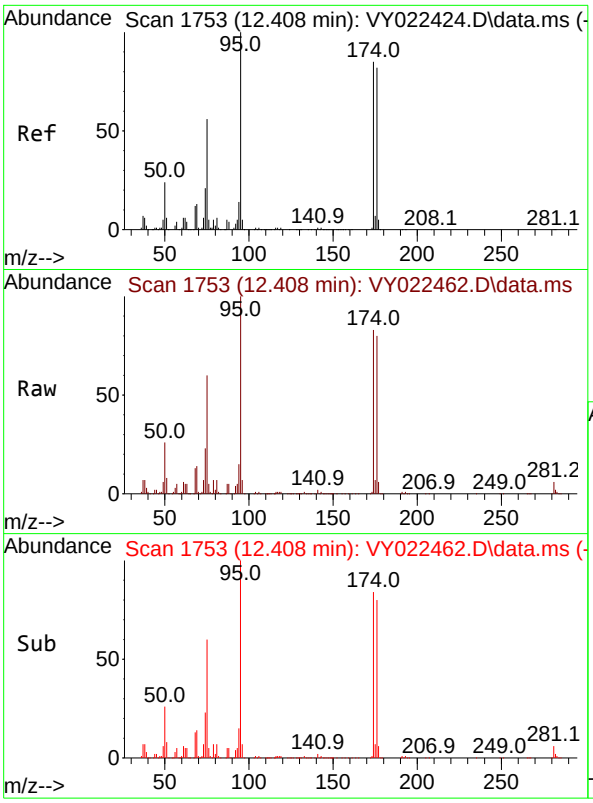


#50
Toluene-d8
Concen: 49.793 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Tgt Ion: 98 Resp: 654242

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.2



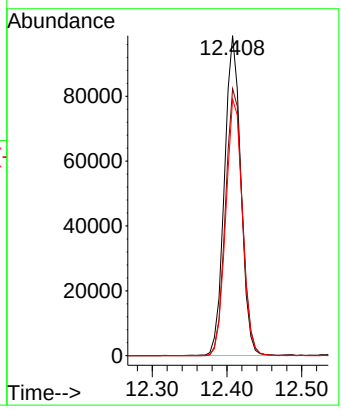


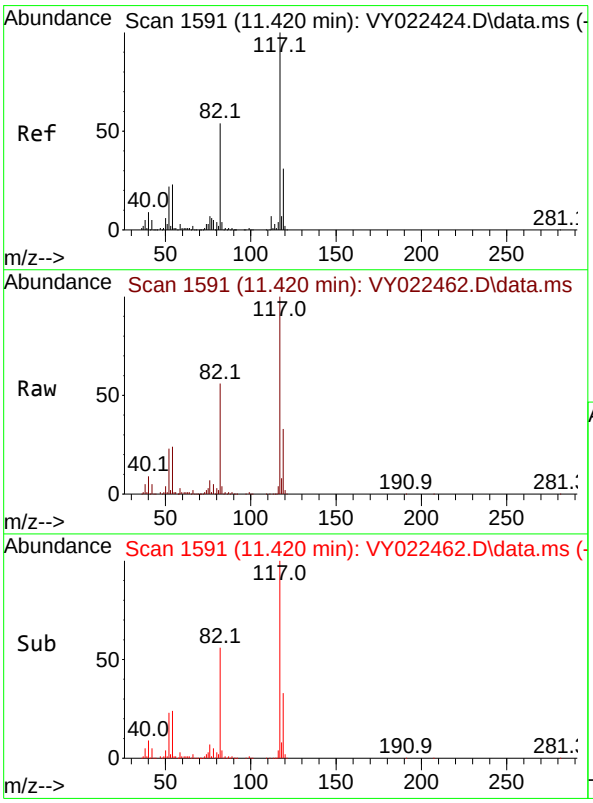
#62
4-Bromofluorobenzene
Concen: 37.768 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Tgt Ion: 95 Resp: 150107

Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	171.6
176	81.6	0.0	164.6

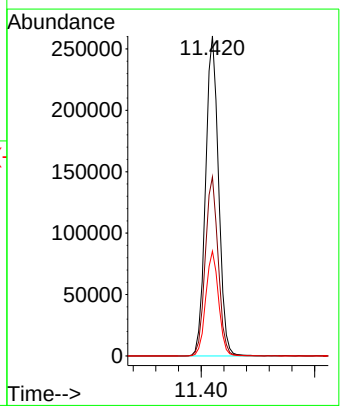


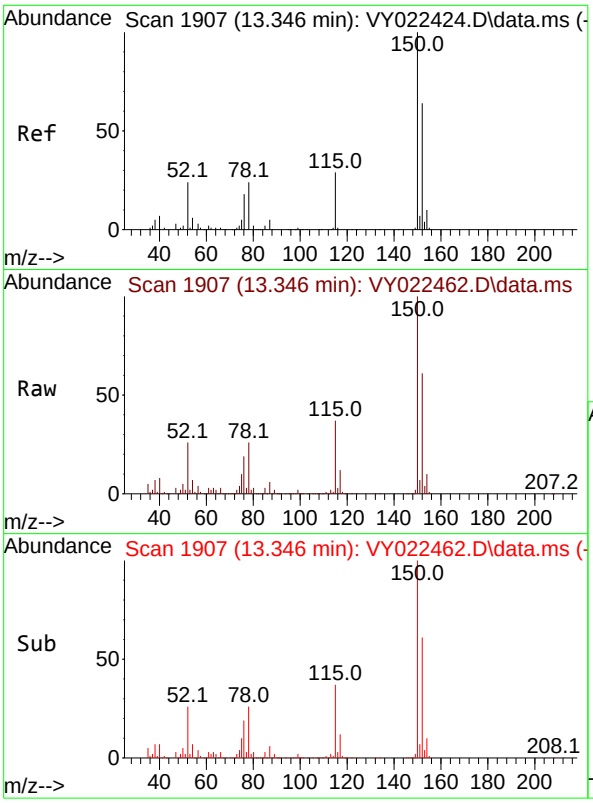


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Tgt Ion:117 Resp: 413432

Ion	Ratio	Lower	Upper
117	100		
82	56.0	43.3	64.9
119	32.7	24.5	36.7



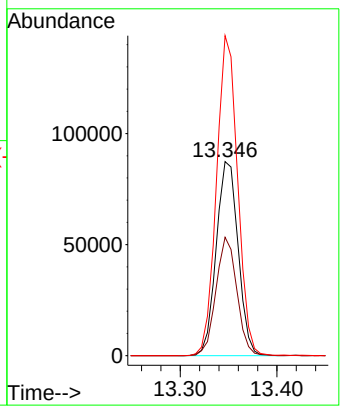


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022462.D
Acq: 29 May 2025 13:12

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Tgt Ion:152 Resp: 137454

Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.4	85.3
150	159.2	0.0	345.8



Sample Results: **VY022462.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022462.D
Acq On : 29 May 2025 13:12
Operator : SY/MD
Sample : Q2150-03
Misc : 7.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

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\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022462.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.184	70	76	81	rBV6	8227	21264	1.19%	0.243%
2	2.495	119	127	128	rBV5	12073	26789	1.51%	0.306%
3	4.622	466	476	485	rBV3	10101	33458	1.88%	0.382%
4	7.640	958	971	977	rBV	235577	557513	31.32%	6.362%
5	7.713	977	983	1000	rVB	411897	931384	52.33%	10.629%
6	8.073	1031	1042	1056	rBV2	279779	760473	42.73%	8.678%
7	8.622	1123	1132	1143	rBV	668174	1312536	73.75%	14.978%
8	10.109	1368	1376	1384	rBV	1059474	1779795	100.00%	20.311%
9	11.420	1583	1591	1601	rBV	854151	1359519	76.39%	15.515%
10	12.408	1746	1753	1763	rBV2	573784	916463	51.49%	10.459%
11	13.346	1901	1907	1917	rBV	606896	915643	51.45%	10.449%
12	13.889	1989	1996	2003	rVB	91530	147969	8.31%	1.689%

Sum of corrected areas: 8762806

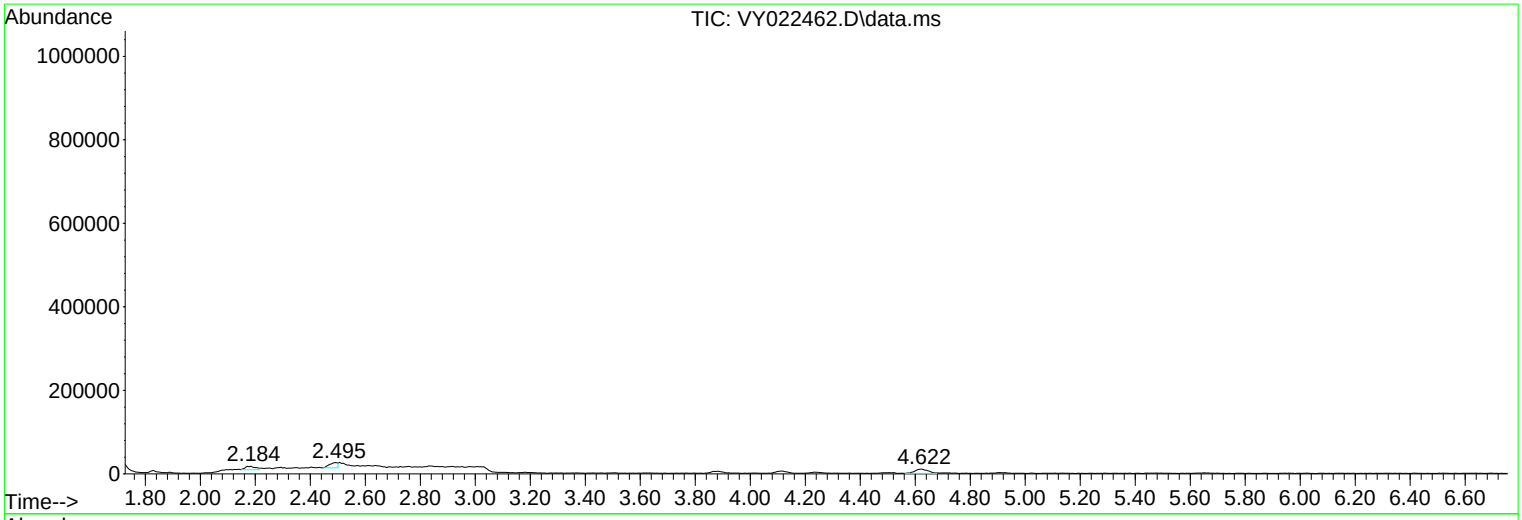
Sample Results: **VY022462.D**

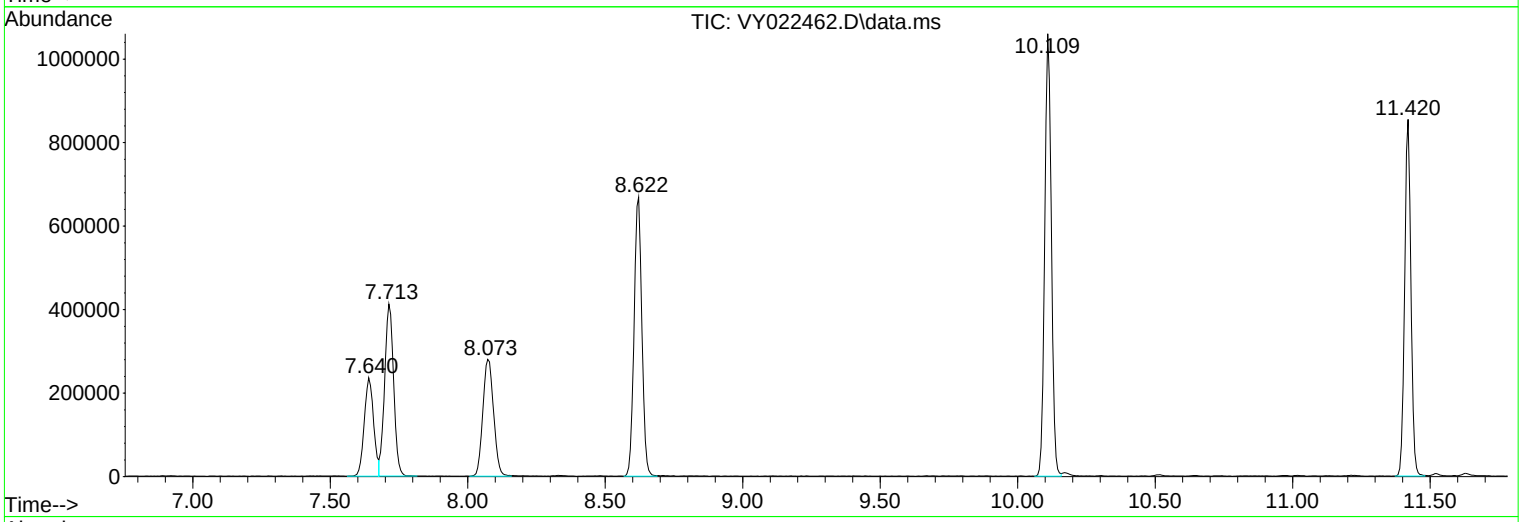
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022462.D
Acq On : 29 May 2025 13:12
Operator : SY/MD
Sample : Q2150-03
Misc : 7.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

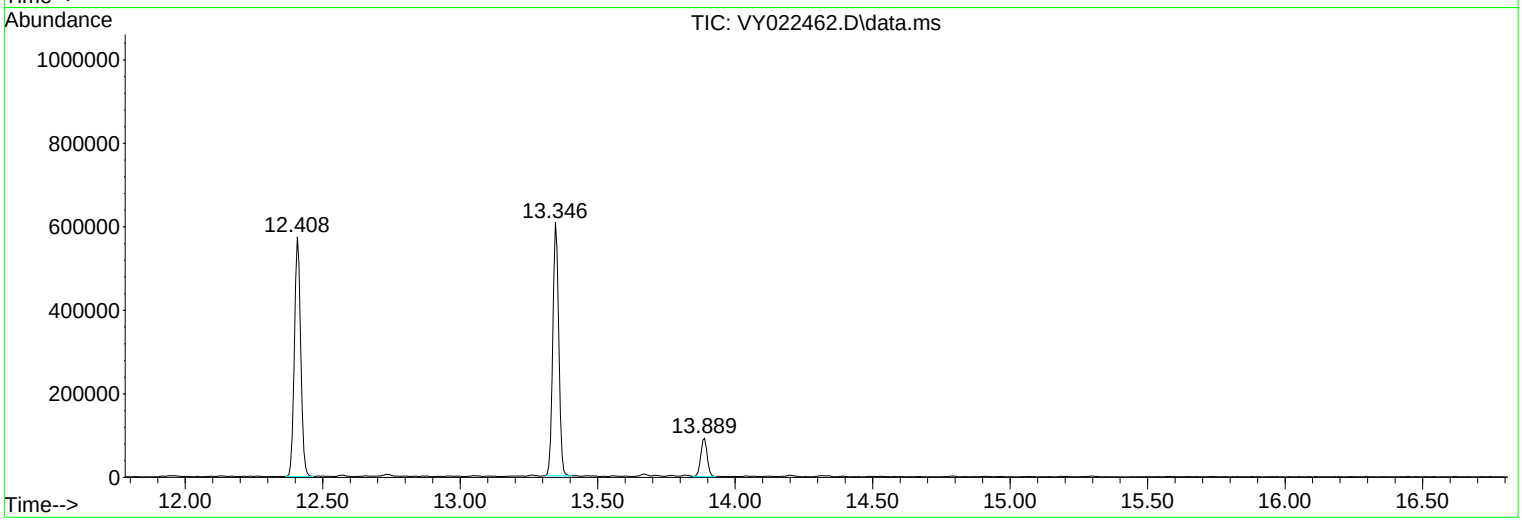
Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022462.D
Acq On : 29 May 2025 13:12
Operator : SY/MD
Sample : Q2150-03
Misc : 7.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022462.D
Acq On : 29 May 2025 13:12
Operator : SY/MD
Sample : Q2150-03
Misc : 7.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-39

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022463.D
Acq On : 29 May 2025 13:36
Operator : SY/MD
Sample : Q2150-04
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-48

Quant Time: May 30 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

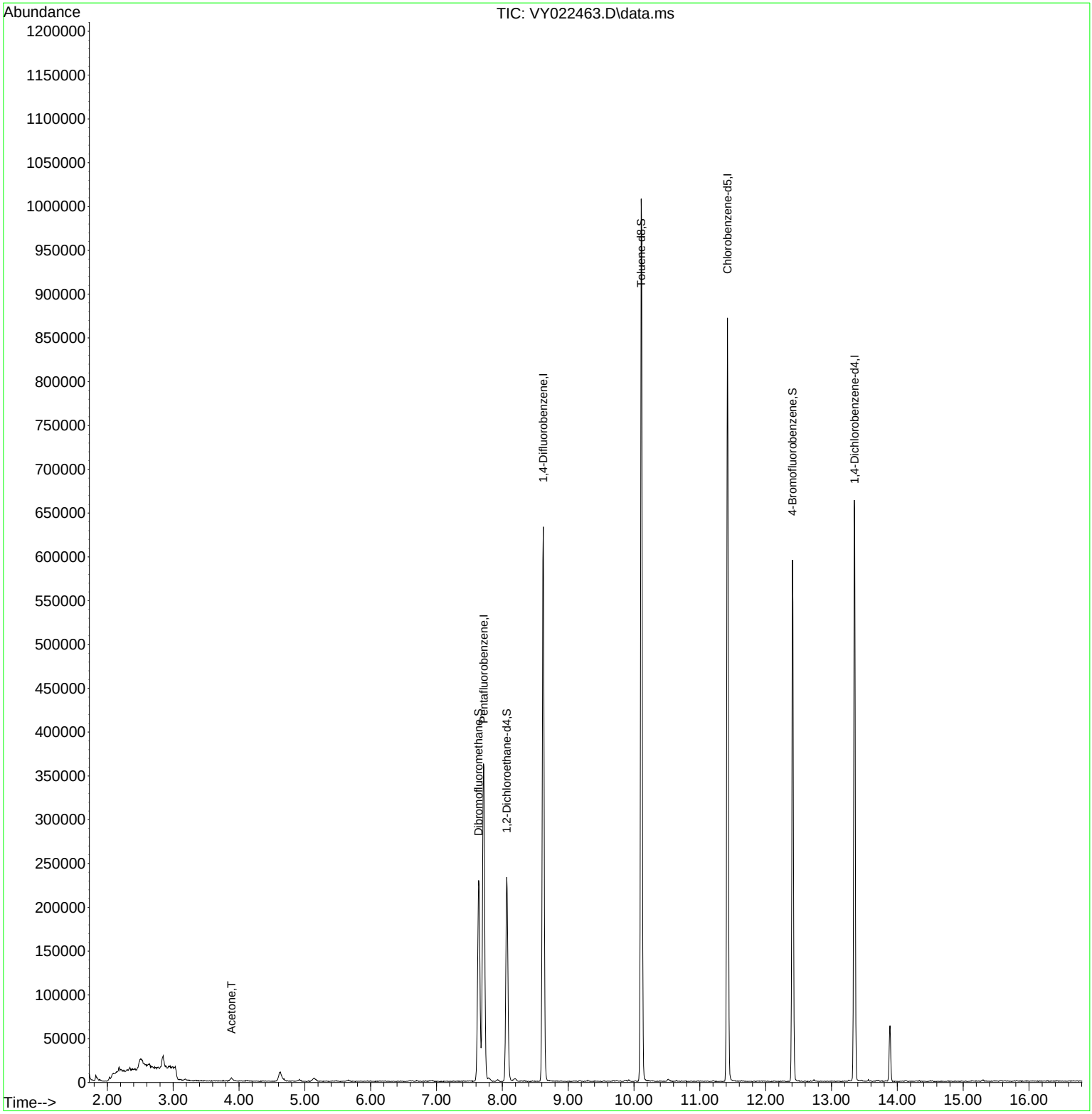
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	278545	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	518246	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	419041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	155769	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	173294	59.065	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.140%			
35) Dibromofluoromethane	7.640	113	160020	52.725	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.440%			
50) Toluene-d8	10.109	98	625091	50.523	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.040%			
62) 4-Bromofluorobenzene	12.407	95	160933	43.002	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 86.000%			
Target Compounds						Qvalue
16) Acetone	3.885	43	6661	13.816	ug/l #	87

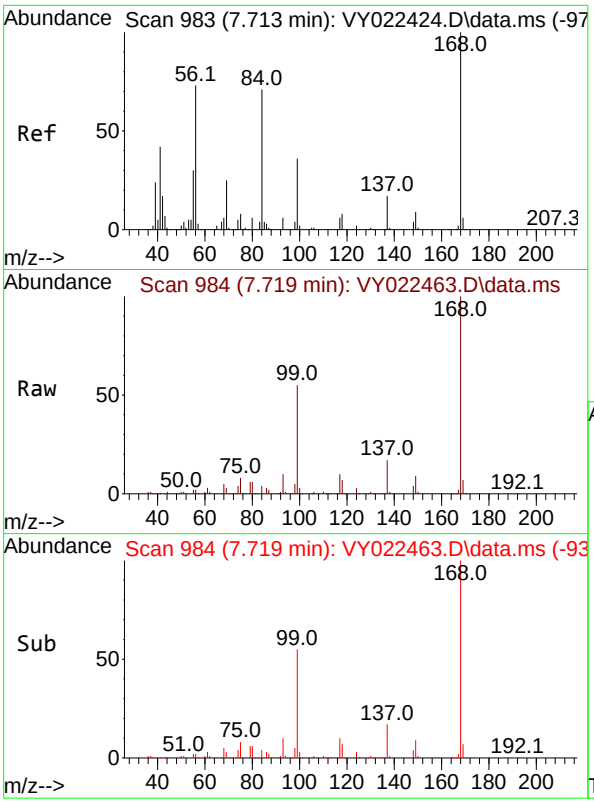
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022463.D
Acq On : 29 May 2025 13:36
Operator : SY/MD
Sample : Q2150-04
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-48

Quant Time: May 30 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



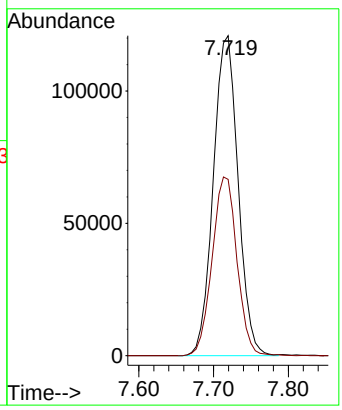


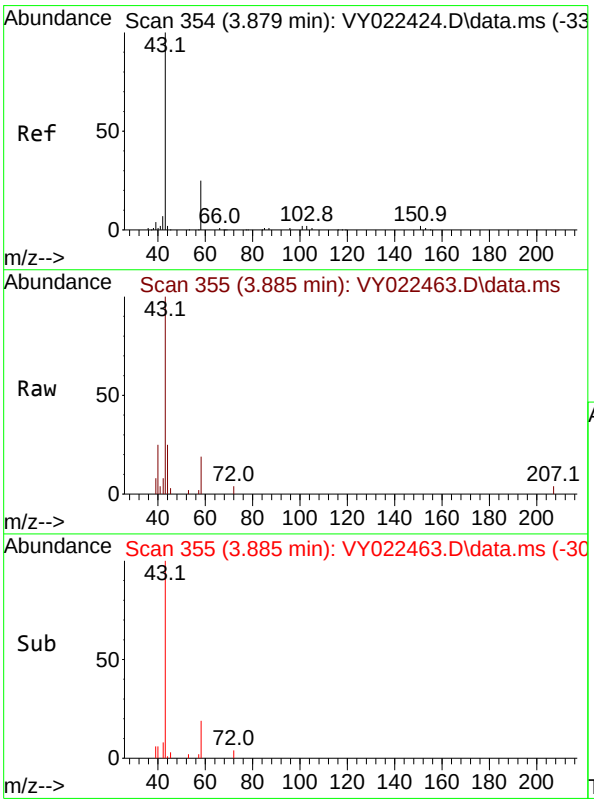
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022463.D
Acq: 29 May 2025 13:36

Instrument :
MSVOA_Y
ClientSampleId :
TP-48

Tgt Ion:168 Resp: 278545

Ion	Ratio	Lower	Upper
168	100		
99	55.1	44.7	67.1

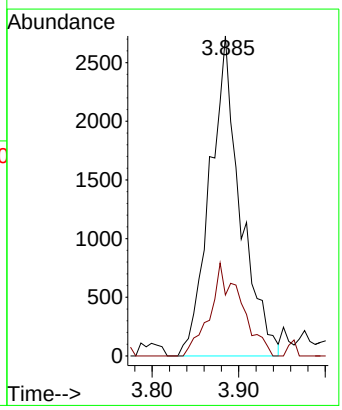


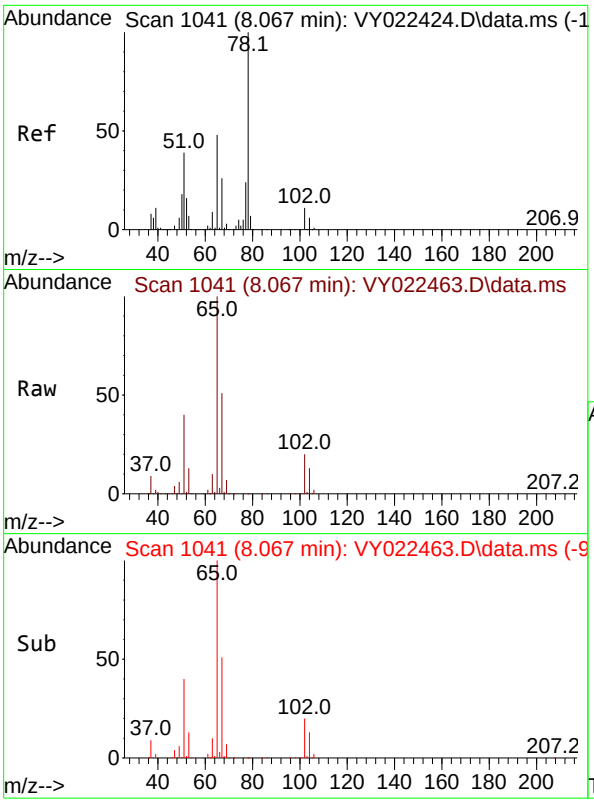


#16
Acetone
Concen: 13.816 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.006 min
Lab File: VY022463.D
Acq: 29 May 2025 13:36

Tgt Ion: 43 Resp: 6661

Ion	Ratio	Lower	Upper
43	100		
58	19.1	20.6	30.8#



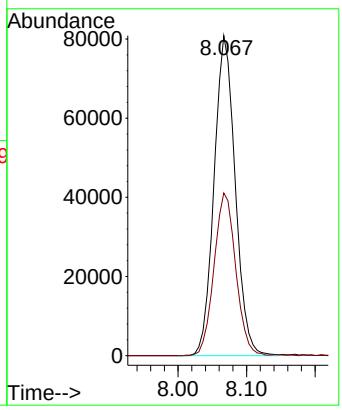


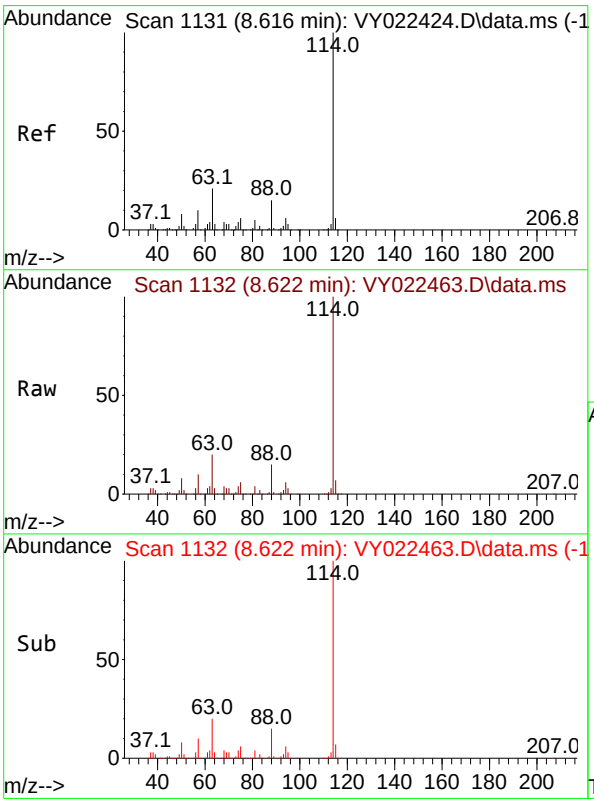
#33
1,2-Dichloroethane-d4
Concen: 59.065 ug/l
RT: 8.067 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022463.D
Acq: 29 May 2025 13:36

Instrument :
MSVOA_Y
ClientSampleId :
TP-48

Tgt Ion: 65 Resp: 173294

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	104.4

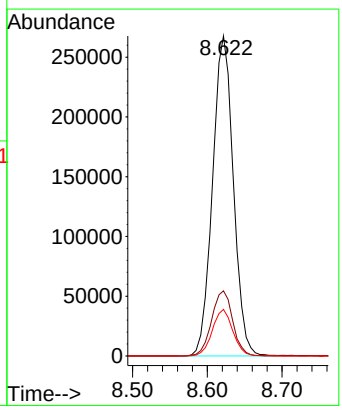




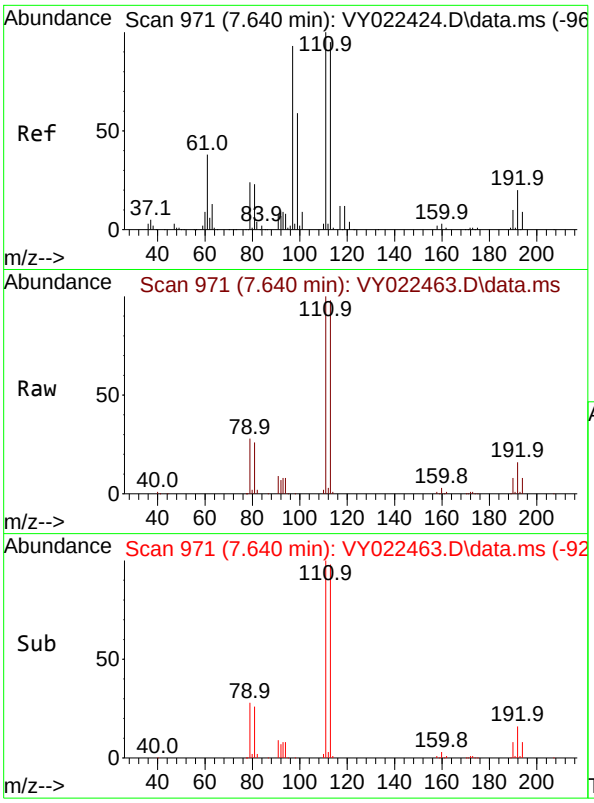
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022463.D
Acq: 29 May 2025 13:36

Tgt Ion:114 Resp: 518246

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.6
88	14.6	0.0	29.4



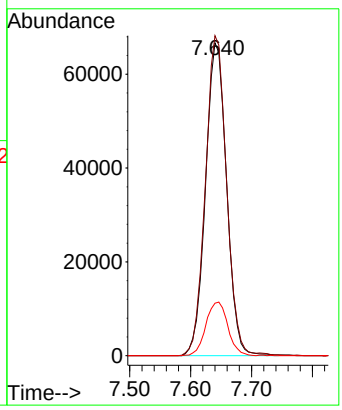
Instrument :
MSVOA_Y
ClientSampleId :
TP-48

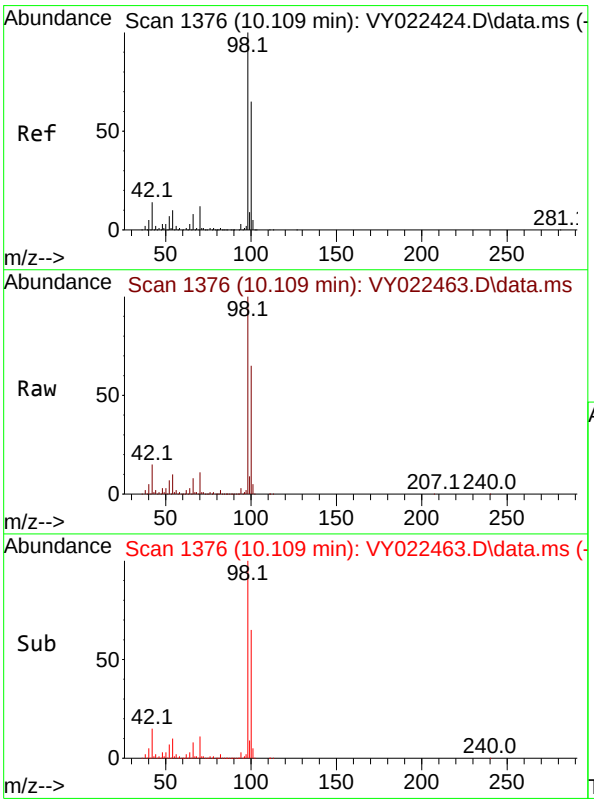


#35
Dibromofluoromethane
Concen: 52.725 ug/l
RT: 7.640 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022463.D
Acq: 29 May 2025 13:36

Tgt Ion:113 Resp: 160020

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.4	123.6
192	17.9	15.2	22.8

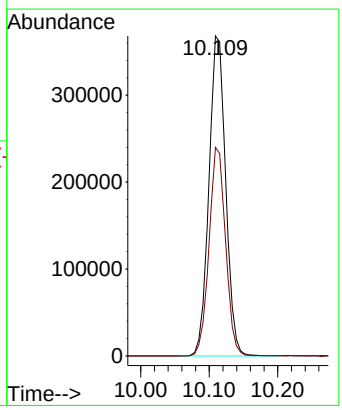


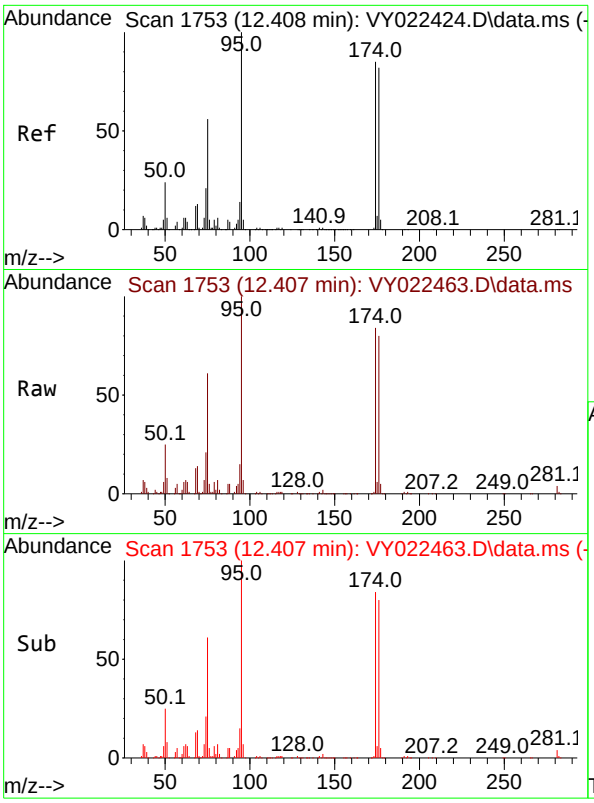


#50
Toluene-d8
Concen: 50.523 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY022463.D
Acq: 29 May 2025 13:36

Tgt Ion: 98 Resp: 625091

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2



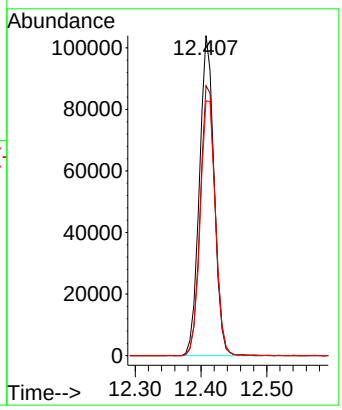


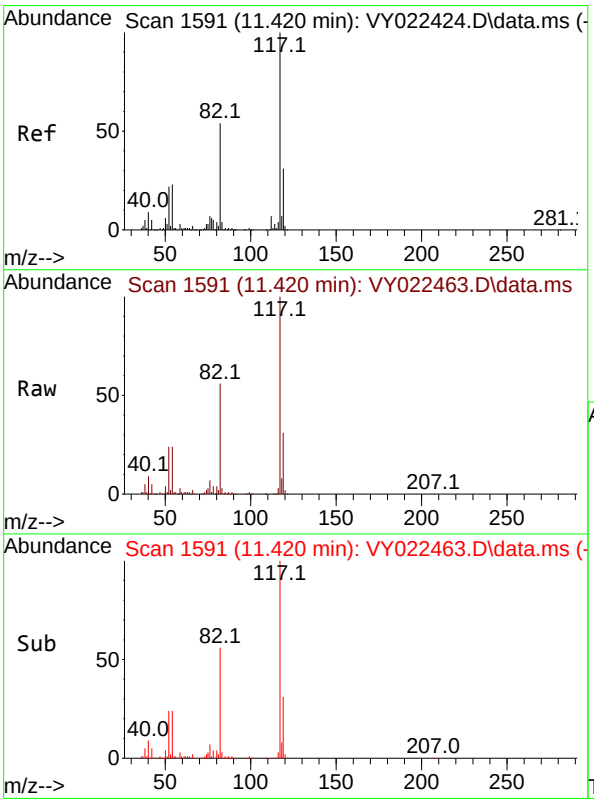
#62
4-Bromofluorobenzene
Concen: 43.002 ug/l
RT: 12.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022463.D
Acq: 29 May 2025 13:36

Instrument :
MSVOA_Y
ClientSampleId :
TP-48

Tgt Ion: 95 Resp: 160933

Ion	Ratio	Lower	Upper
95	100		
174	86.1	0.0	171.6
176	82.6	0.0	164.6

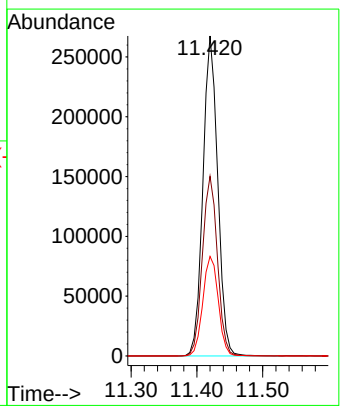


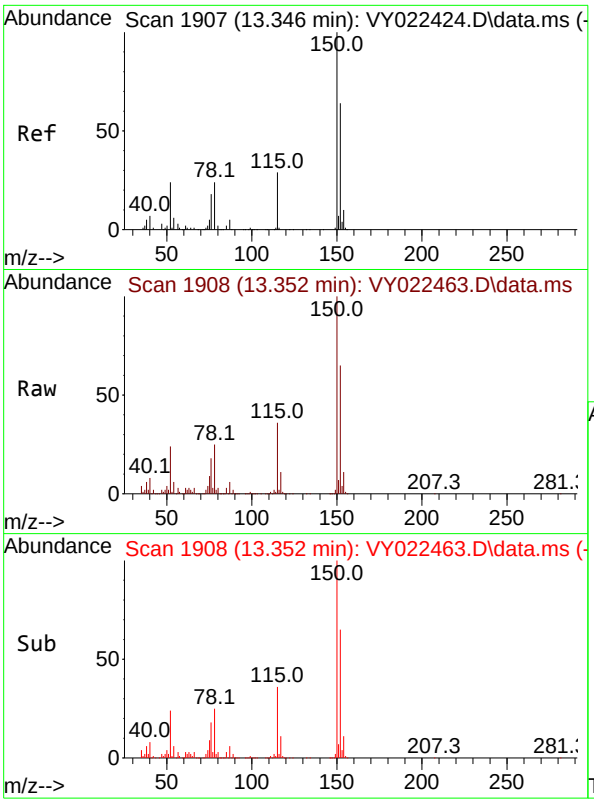


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY022463.D
Acq: 29 May 2025 13:36

Tgt Ion:117 Resp: 419041

Ion	Ratio	Lower	Upper
117	100		
82	56.1	43.3	64.9
119	31.1	24.5	36.7



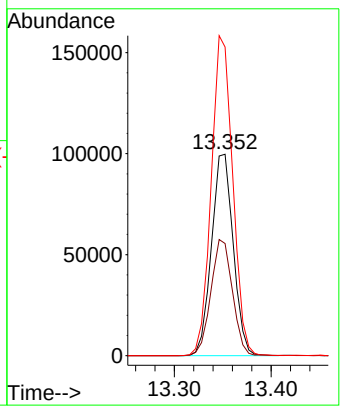


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022463.D
Acq: 29 May 2025 13:36

Instrument :
MSVOA_Y
ClientSampleId :
TP-48

Tgt Ion:152 Resp: 155769

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.4	85.3
150	156.7	0.0	345.8



Sample Results: **VY022463.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022463.D
Acq On : 29 May 2025 13:36
Operator : SY/MD
Sample : Q2150-04
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-48

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\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022463.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.507	119	129	138	rBV3	12972	59478	3.49%	0.703%
2	2.848	180	185	190	rVB4	12665	23719	1.39%	0.280%
3	4.628	466	477	485	rBV2	10479	35599	2.09%	0.421%
4	7.640	961	971	977	rBV	229252	555385	32.59%	6.565%
5	7.713	977	983	993	rVV	362529	854147	50.12%	10.097%
6	8.067	1030	1041	1055	rBV	233263	516251	30.30%	6.102%
7	8.622	1123	1132	1143	rBV	632808	1229871	72.17%	14.538%
8	10.109	1368	1376	1388	rBV	1007566	1704065	100.00%	20.143%
9	11.420	1583	1591	1601	rBV	871458	1391568	81.66%	16.449%
10	12.407	1746	1753	1765	rBV	595289	959199	56.29%	11.338%
11	13.346	1898	1907	1917	rBV	663097	1026983	60.27%	12.140%
12	13.889	1990	1996	2002	rVB	63819	103439	6.07%	1.223%

Sum of corrected areas: 8459704

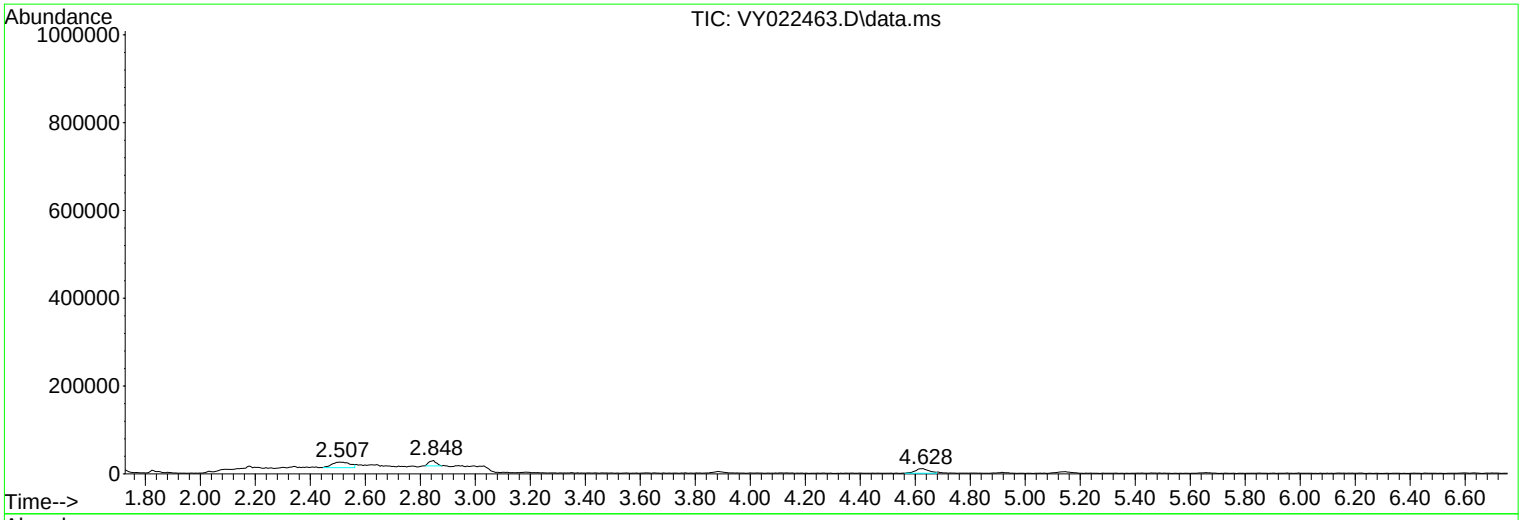
Sample Results: **VY022463.D**

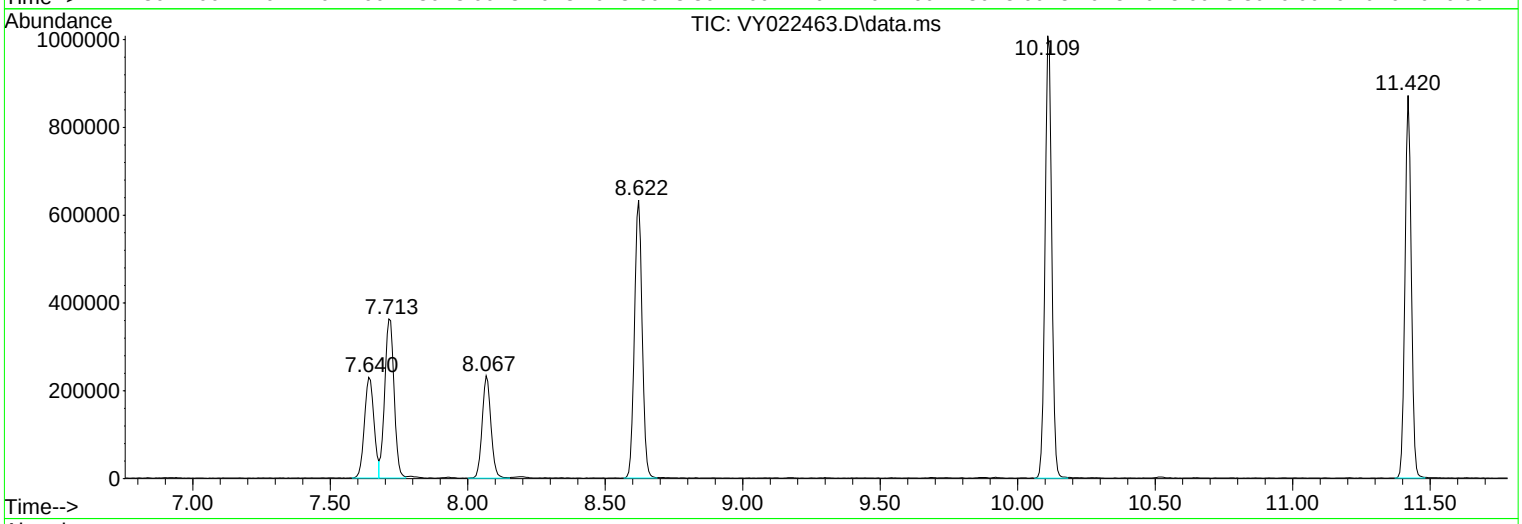
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022463.D
Acq On : 29 May 2025 13:36
Operator : SY/MD
Sample : Q2150-04
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

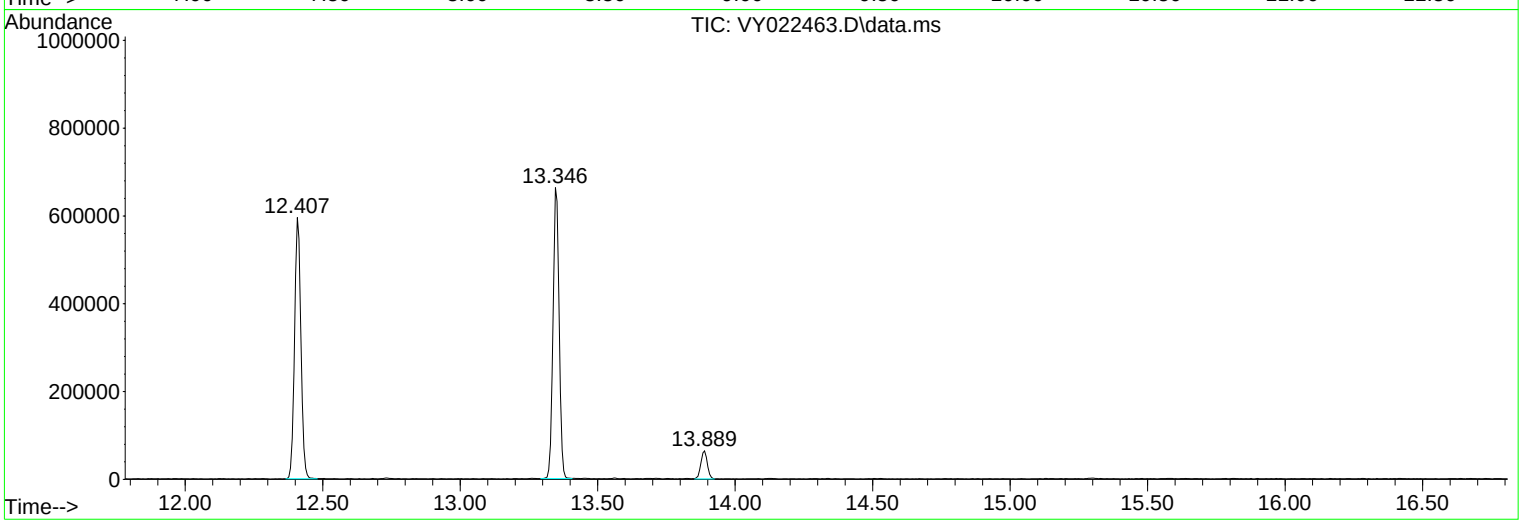
Instrument :
MSVOA_Y
ClientSampleId :
TP-48

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022463.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022463.D
Acq On : 29 May 2025 13:36
Operator : SY/MD
Sample : Q2150-04
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-48

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022463.D
Acq On : 29 May 2025 13:36
Operator : SY/MD
Sample : Q2150-04
Misc : 6.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-48

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022464.D
Acq On : 29 May 2025 13:59
Operator : SY/MD
Sample : Q2150-05
Misc : 7.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-47

Quant Time: May 30 05:34:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	18571	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	25910	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	13686	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	2224	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	6243	31.916	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 63.840%			
35) Dibromofluoromethane	7.640	113	4936	32.530	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 65.060%			
50) Toluene-d8	10.109	98	26868	43.436	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 86.880%			
62) 4-Bromofluorobenzene	12.407	95	3842	20.534	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 41.060%			

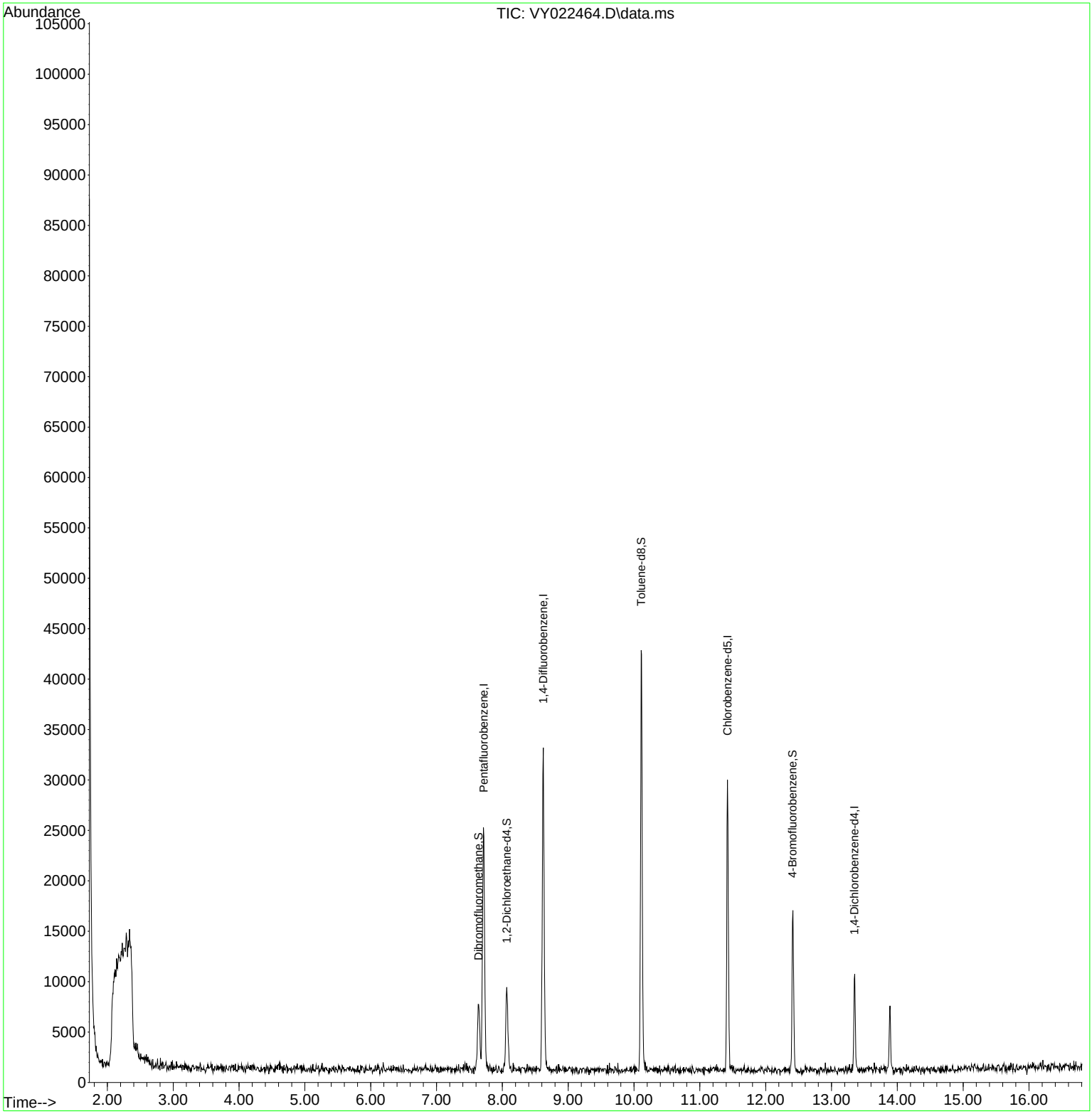
Target Compounds	Qvalue

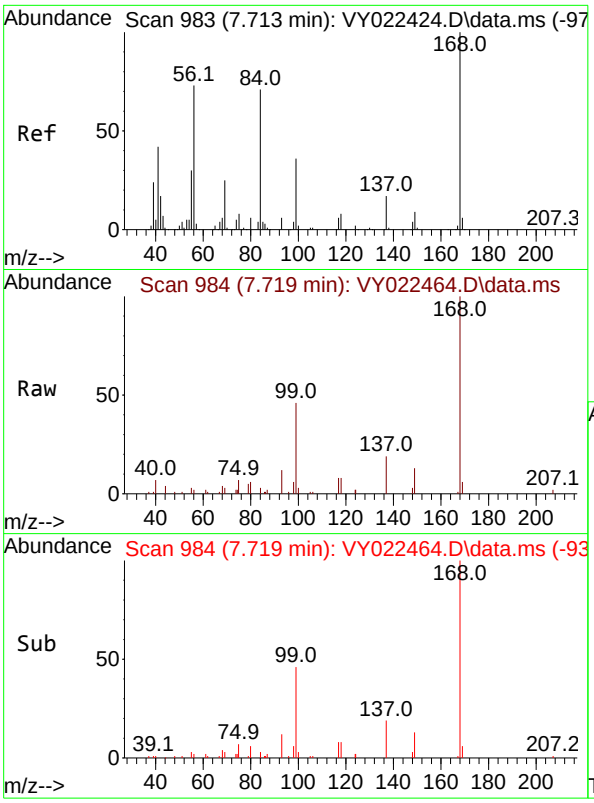
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022464.D
Acq On : 29 May 2025 13:59
Operator : SY/MD
Sample : Q2150-05
Misc : 7.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-47

Quant Time: May 30 05:34:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



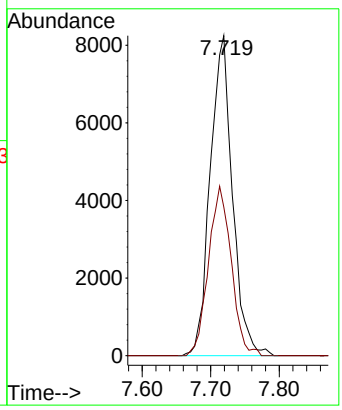


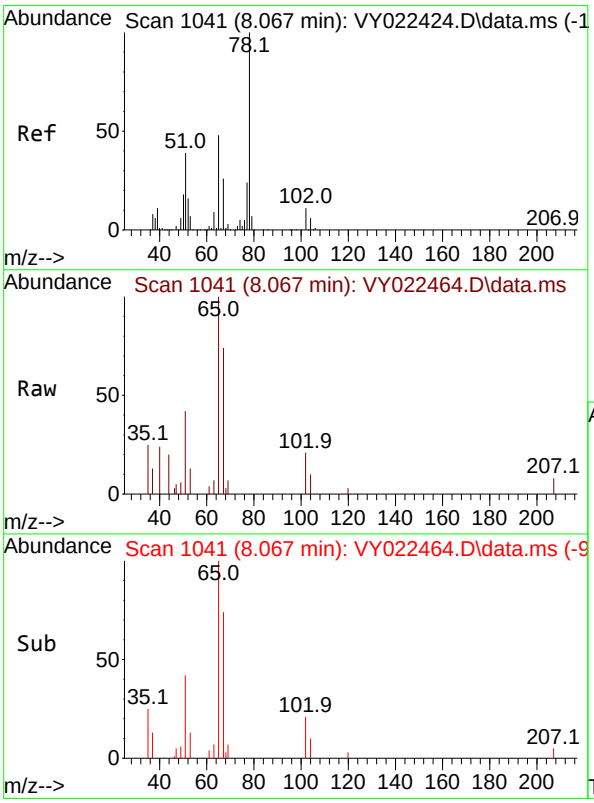
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Instrument :
MSVOA_Y
ClientSampleId :
TP-47

Tgt Ion:168 Resp: 18571

Ion	Ratio	Lower	Upper
168	100		
99	46.5	44.7	67.1

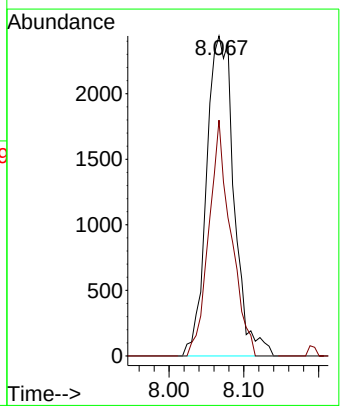


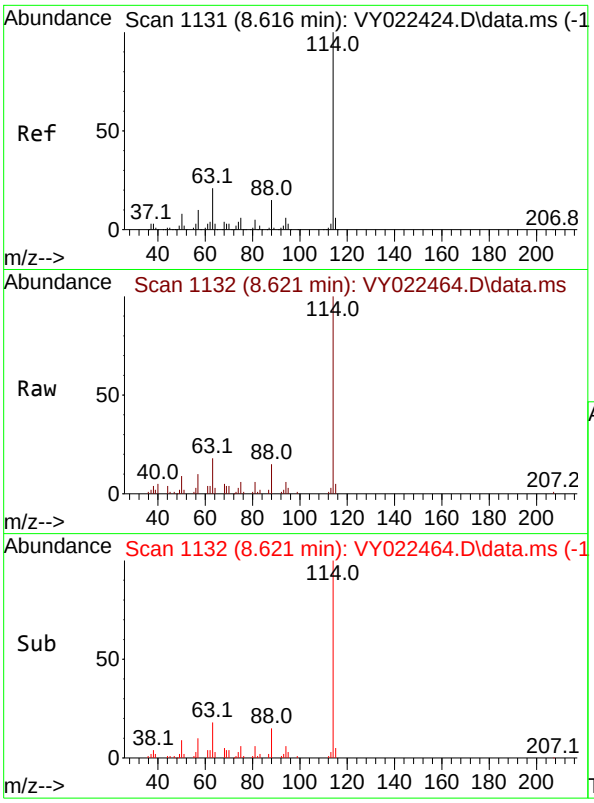


#33
1,2-Dichloroethane-d4
Concen: 31.916 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Tgt Ion: 65 Resp: 6243

Ion	Ratio	Lower	Upper
65	100		
67	59.2	0.0	104.4



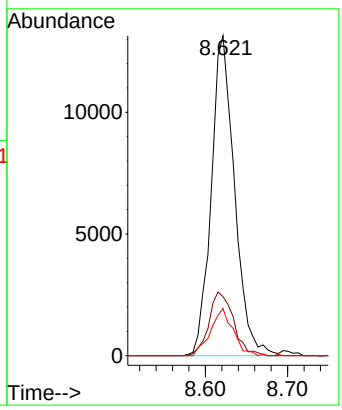


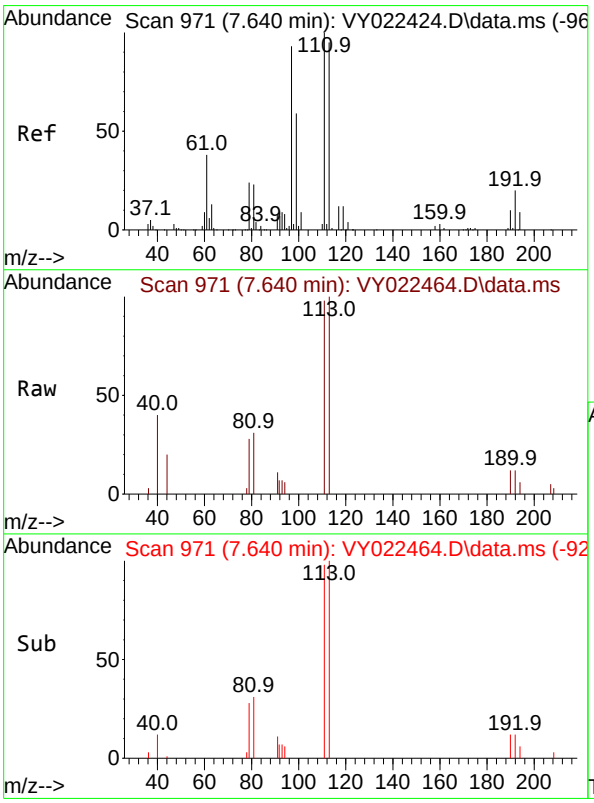
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Instrument :
MSVOA_Y
ClientSampleId :
TP-47

Tgt Ion:114 Resp: 25910

Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	42.6
88	14.7	0.0	29.4

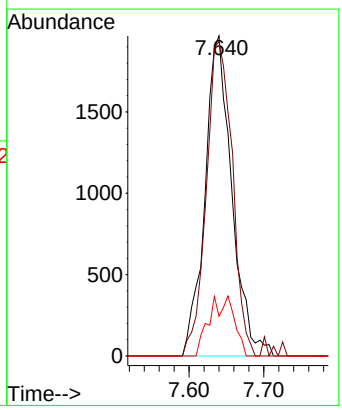


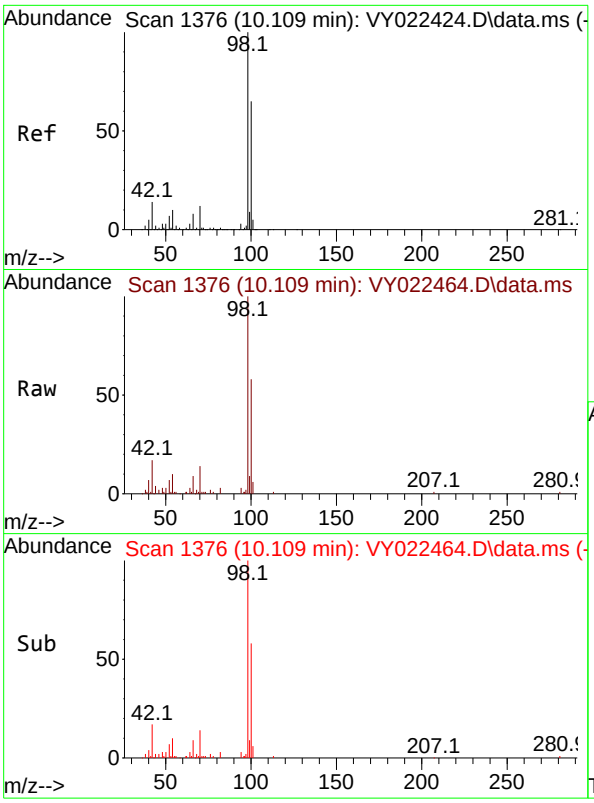


#35
Dibromofluoromethane
Concen: 32.530 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Tgt Ion:113 Resp: 4936

Ion	Ratio	Lower	Upper
113	100		
111	95.0	82.4	123.6
192	17.2	15.2	22.8



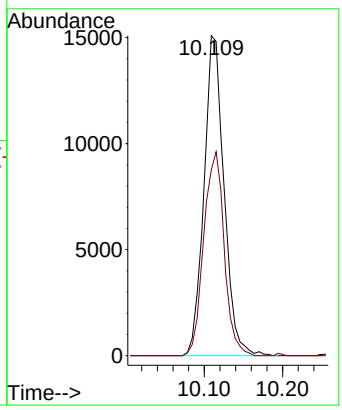


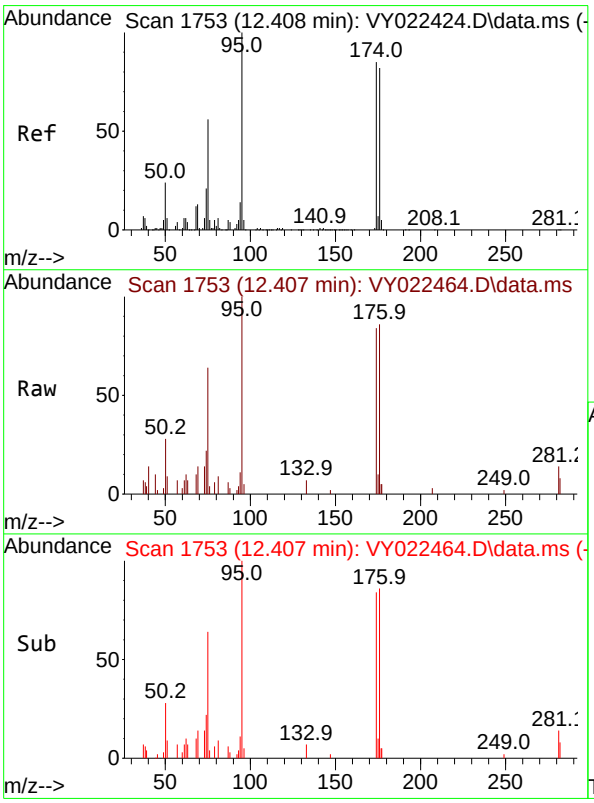
#50
Toluene-d8
Concen: 43.436 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Instrument :
MSVOA_Y
ClientSampleId :
TP-47

Tgt Ion: 98 Resp: 26868

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2

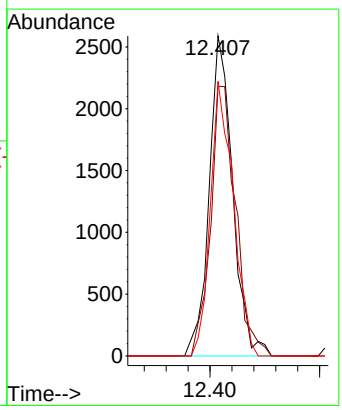


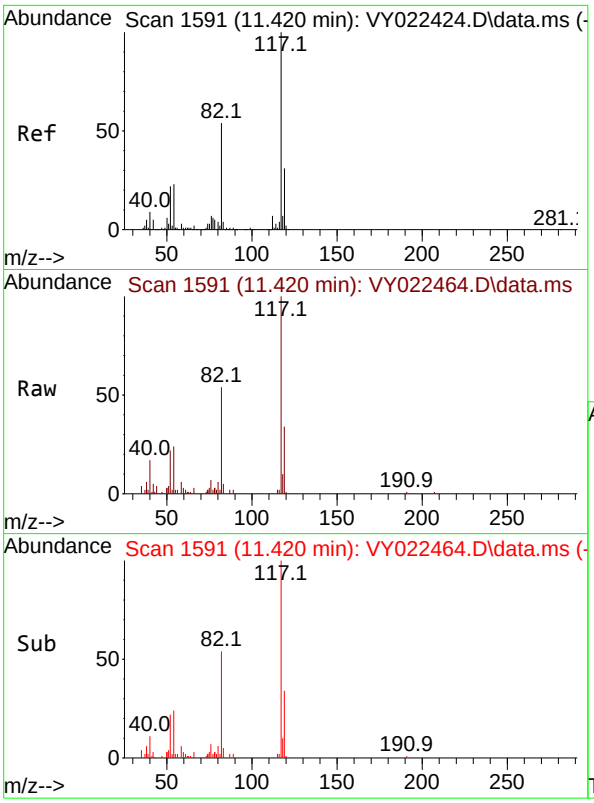


#62
4-Bromofluorobenzene
Concen: 20.534 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Tgt Ion: 95 Resp: 3842

Ion	Ratio	Lower	Upper
95	100		
174	89.8	0.0	171.6
176	84.4	0.0	164.6



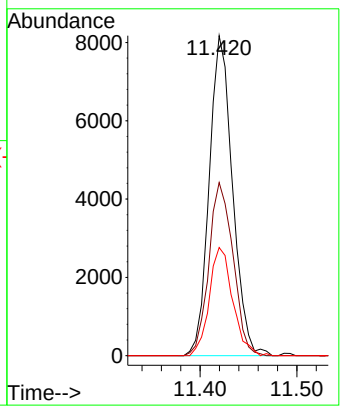


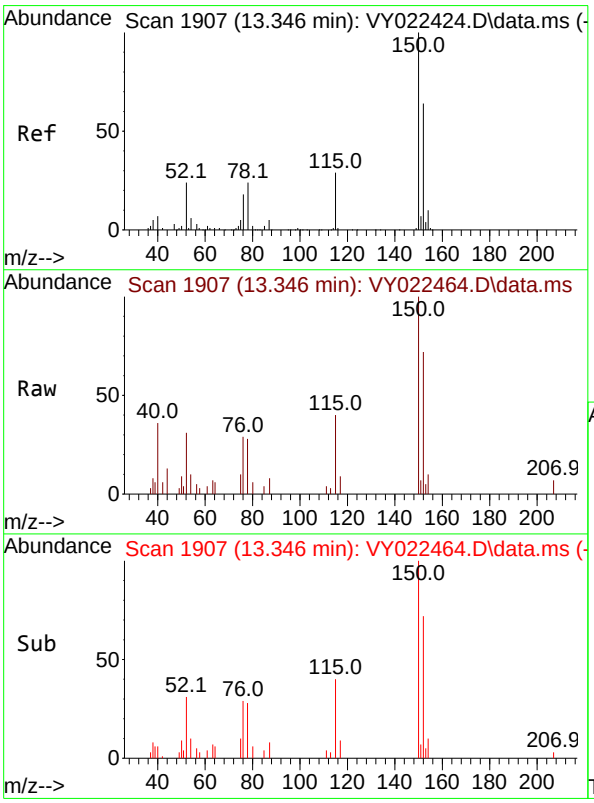
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Instrument :
MSVOA_Y
ClientSampleId :
TP-47

Tgt Ion:117 Resp: 13686

Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.3	64.9
119	33.8	24.5	36.7

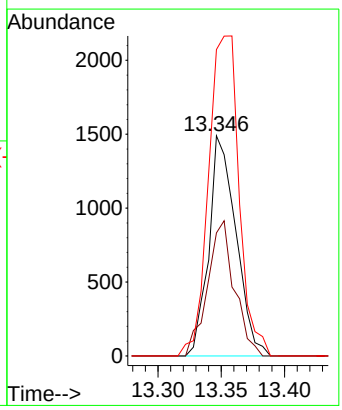




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Tgt Ion:152 Resp: 2224

Ion	Ratio	Lower	Upper
152	100		
115	60.9	28.4	85.3
150	163.4	0.0	345.8



Sample Results: **VY022464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022464.D
Acq On : 29 May 2025 13:59
Operator : SY/MD
Sample : Q2150-05
Misc : 7.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-47

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\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022464.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.117	50	65	67	rBV4	9475	35237	46.74%	8.714%
2	2.141	67	69	71	rVV2	1912	2268	3.01%	0.561%
3	2.458	119	121	124	rVB3	1357	1109	1.47%	0.274%
4	2.763	167	171	173	rVB3	1031	832	1.10%	0.206%
5	2.891	186	192	194	rVB3	861	1407	1.87%	0.348%
6	3.299	255	259	262	rBV4	612	1108	1.47%	0.274%
7	3.409	274	277	279	rVB3	889	919	1.22%	0.227%
8	4.683	484	486	489	rBV	827	886	1.18%	0.219%
9	4.720	489	492	494	rVB2	854	1007	1.34%	0.249%
10	5.122	554	558	561	rBV2	864	893	1.18%	0.221%
11	5.872	679	681	687	rVB2	638	1046	1.39%	0.259%
12	5.927	687	690	693	rBV3	668	838	1.11%	0.207%
13	6.116	720	721	725	rVB2	847	909	1.21%	0.225%
14	6.165	725	729	731	rBV2	622	872	1.16%	0.216%
15	6.189	731	733	737	rBV2	959	1015	1.35%	0.251%
16	7.500	946	948	954	rVB2	692	1220	1.62%	0.302%
17	7.573	959	960	963	rBV2	701	835	1.11%	0.206%
18	7.634	963	970	977	rVV5	6526	16437	21.80%	4.065%
19	7.713	977	983	991	rVB	23689	53064	70.39%	13.123%
20	7.945	1017	1021	1026	rBV4	639	914	1.21%	0.226%
21	8.067	1035	1041	1049	rVB4	8044	17881	23.72%	4.422%
22	8.304	1076	1080	1084	rBV4	575	1425	1.89%	0.352%
23	8.621	1124	1132	1143	rBV	32042	64149	85.10%	15.864%
24	9.018	1191	1197	1202	rVB6	467	1000	1.33%	0.247%
25	9.237	1228	1233	1236	rVB3	486	1026	1.36%	0.254%
26	9.560	1282	1286	1289	rVB4	459	866	1.15%	0.214%
27	9.707	1307	1310	1316	rBV5	645	1109	1.47%	0.274%
28	9.999	1352	1358	1360	rVB3	714	992	1.32%	0.245%
29	10.109	1370	1376	1385	rBV	41742	75385	100.00%	18.642%
30	10.517	1441	1443	1448	rVB2	848	1088	1.44%	0.269%
31	10.883	1502	1503	1509	rVB3	717	835	1.11%	0.206%
32	11.420	1586	1591	1597	rBV	28850	47189	62.60%	11.670%
33	12.206	1714	1720	1722	rVB5	639	1430	1.90%	0.354%
34	12.413	1746	1754	1766	rBV4	16161	29667	39.35%	7.337%
35	12.907	1832	1835	1838	rVB	1064	924	1.23%	0.229%
36	13.352	1903	1908	1918	rVB2	9671	15706	20.83%	3.884%

Sample Results: **VY022464.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022464.D
Acq On : 29 May 2025 13:59
Operator : SY/MD
Sample : Q2150-05
Misc : 7.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-47

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\82Y052725S.M
Title : SW846 8260

37	13.651	1953	1957	1960	rBV2	1009	1050	1.39%	0.260%
38	13.682	1960	1962	1969	rBV4	531	951	1.26%	0.235%
39	13.889	1990	1996	2002	rVB2	6222	9114	12.09%	2.254%
40	14.090	2027	2029	2035	rBV2	743	1452	1.93%	0.359%
41	14.334	2067	2069	2073	rVB2	725	924	1.23%	0.229%
42	14.480	2090	2093	2096	rVB4	541	846	1.12%	0.209%
43	14.517	2096	2099	2102	rBV4	679	1115	1.48%	0.276%
44	14.840	2149	2152	2157	rVB3	727	913	1.21%	0.226%
45	15.175	2204	2207	2210	rBV2	608	911	1.21%	0.225%
46	15.309	2224	2229	2231	rVB4	734	850	1.13%	0.210%
47	15.724	2296	2297	2302	rVB2	915	942	1.25%	0.233%
48	15.815	2308	2312	2313	rBV4	711	866	1.15%	0.214%
49	15.986	2337	2340	2341	rBV3	990	952	1.26%	0.235%

Sum of corrected areas: 404374

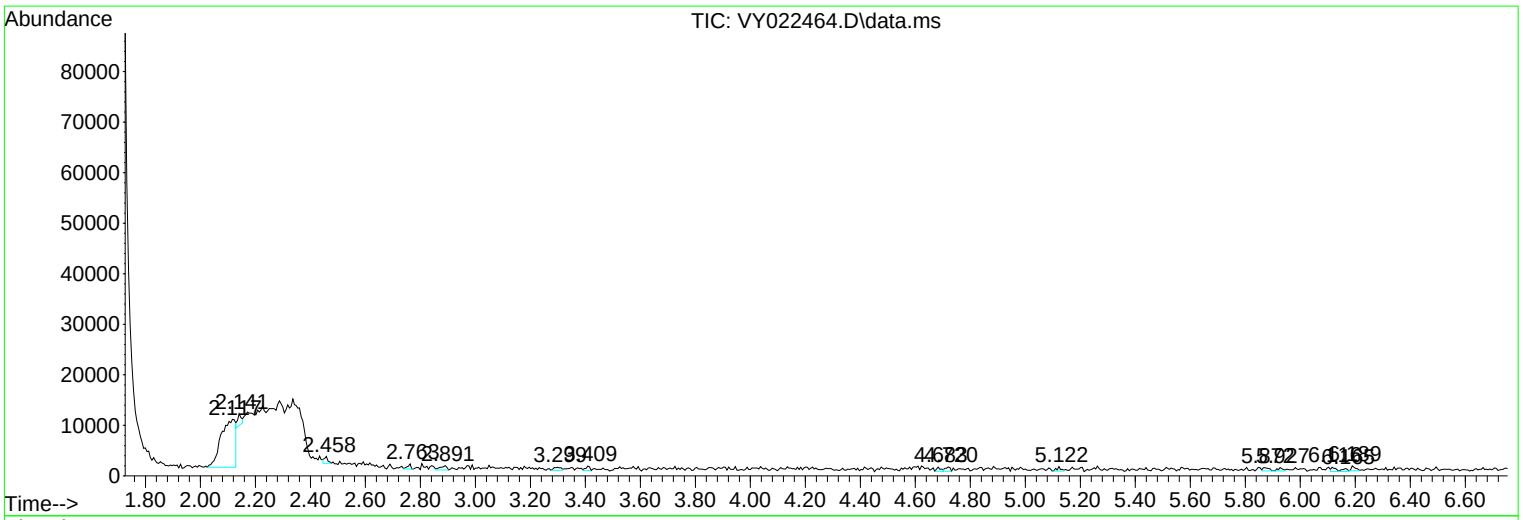
Sample Results: **VY022464.D**

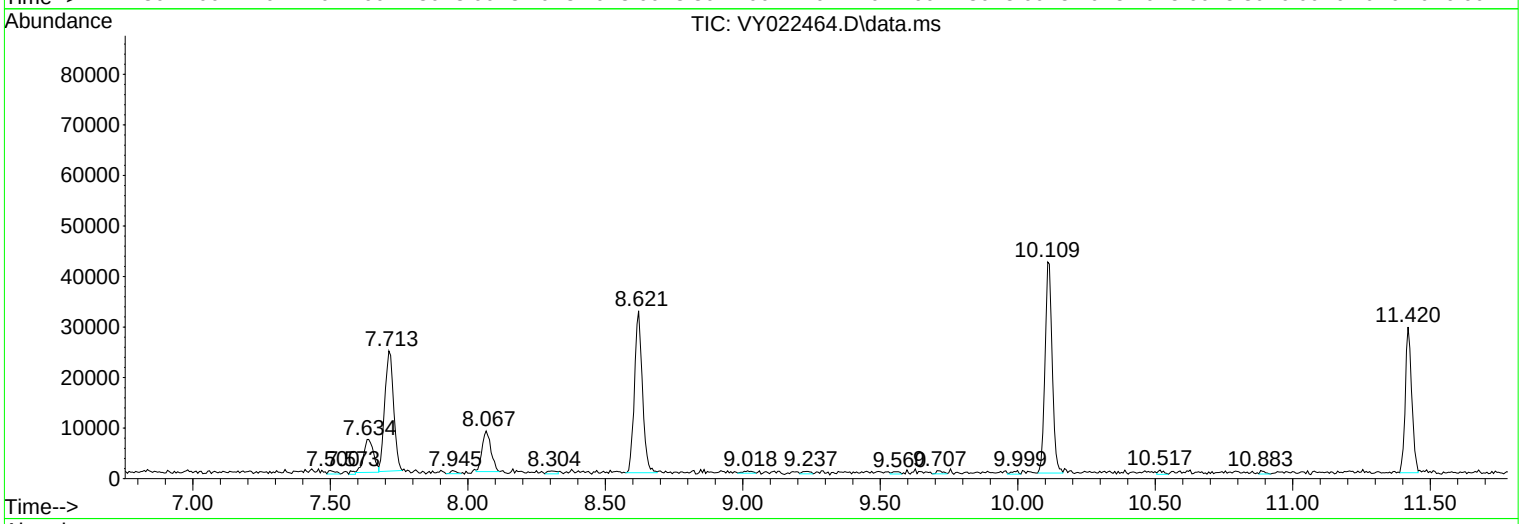
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022464.D
Acq On : 29 May 2025 13:59
Operator : SY/MD
Sample : Q2150-05
Misc : 7.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

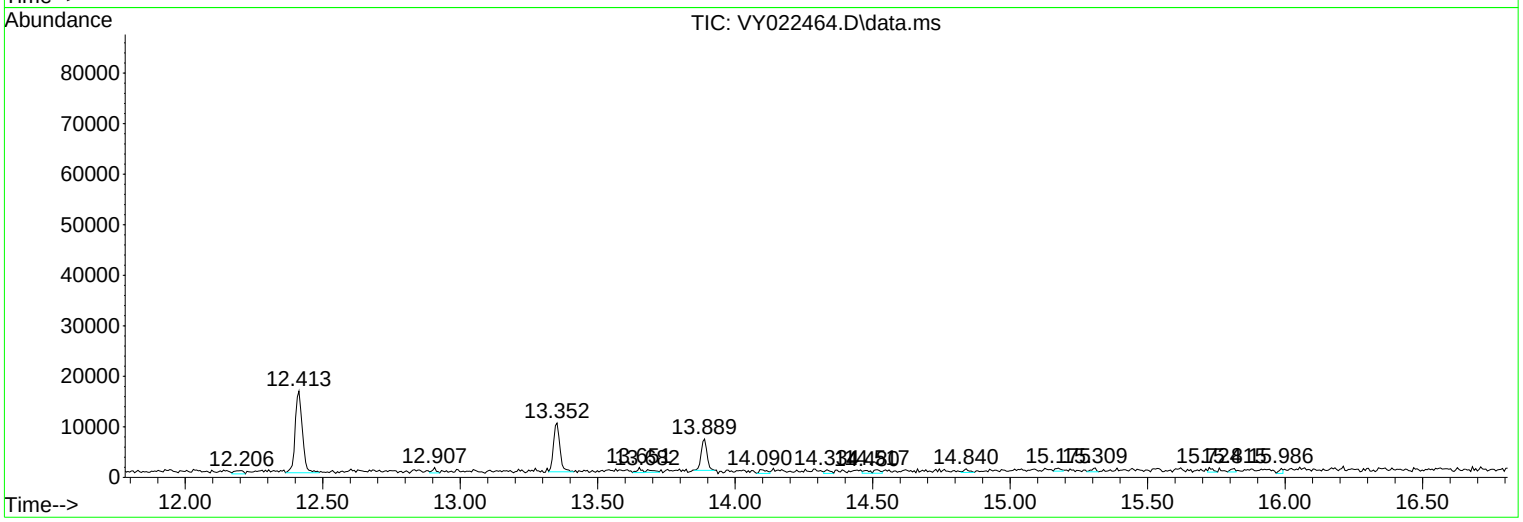
Instrument :
MSVOA_Y
ClientSampleId :
TP-47

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022464.D
Acq On : 29 May 2025 13:59
Operator : SY/MD
Sample : Q2150-05
Misc : 7.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-47

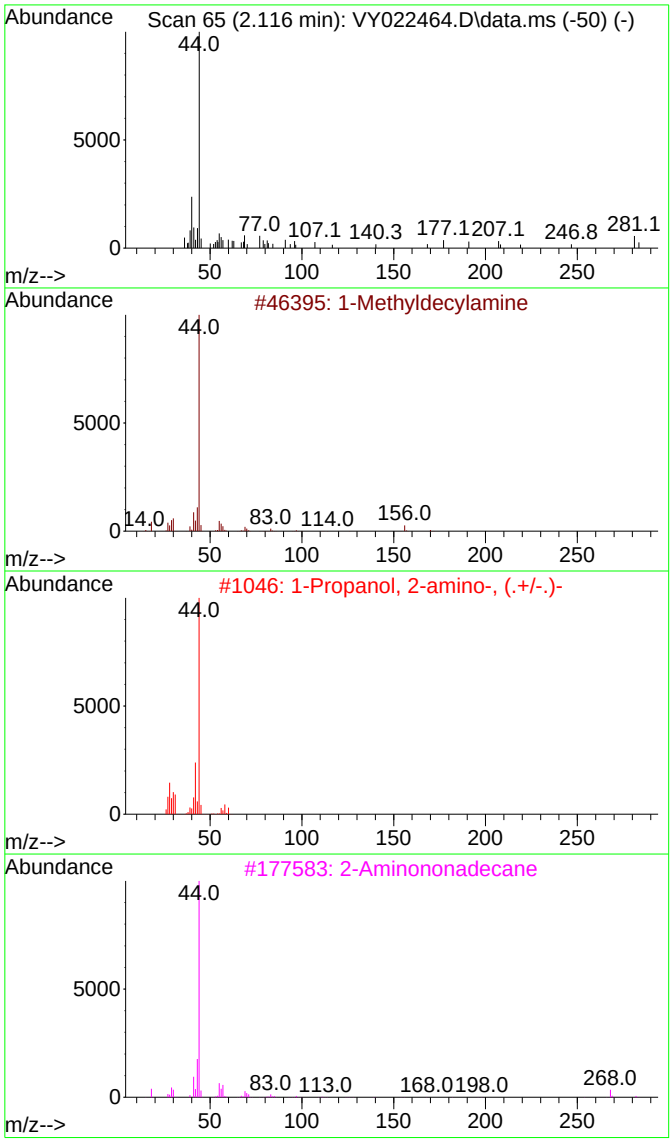
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

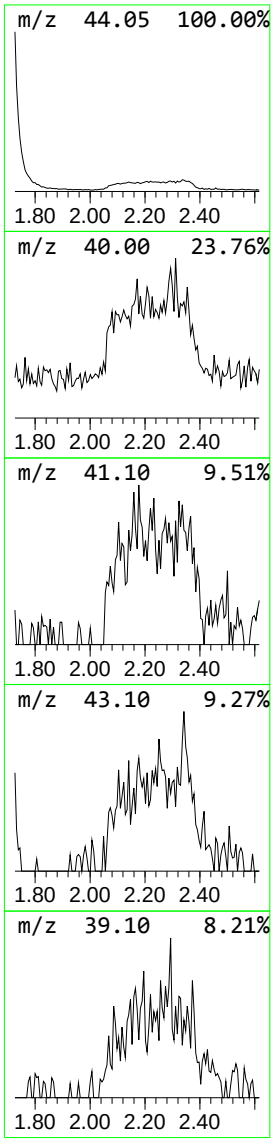
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 1-Methyldecylamine Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.116	33.20 ug/l	35237	Pentafluorobenzene	7.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldecylamine	171	C11H25N	013205-56-6	53
2	1-Propanol, 2-amino-, (.+/-.)-	75	C3H9NO	006168-72-5	45
3	2-Aminononadecane	283	C19H41N	031604-55-4	36
4	3-Cyclohexyl-1-methyl-1-(2-pheny...	260	C16H24N2O	1024470-80-1	36
5	N-Decyl-N-methylamine	171	C11H25N	007516-82-7	36





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022464.D
Acq On : 29 May 2025 13:59
Operator : SY/MD
Sample : Q2150-05
Misc : 7.15g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-47

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1-Methyldecylamine	2.116	33.2	ug/l	35237	1	7.719	53064	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022507.D
Acq On : 02 Jun 2025 19:08
Operator : SY/MD
Sample : Q2150-05RE
Misc : 7.48g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-47RE

Quant Time: Jun 03 04:10:19 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	60813	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	105433	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	78237	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	24479	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	37335	54.892	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.780%			
35) Dibromofluoromethane	7.640	113	33266	52.861	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.720%			
50) Toluene-d8	10.109	98	119467	46.982	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 93.960%			
62) 4-Bromofluorobenzene	12.408	95	26331	34.755	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 69.500%			

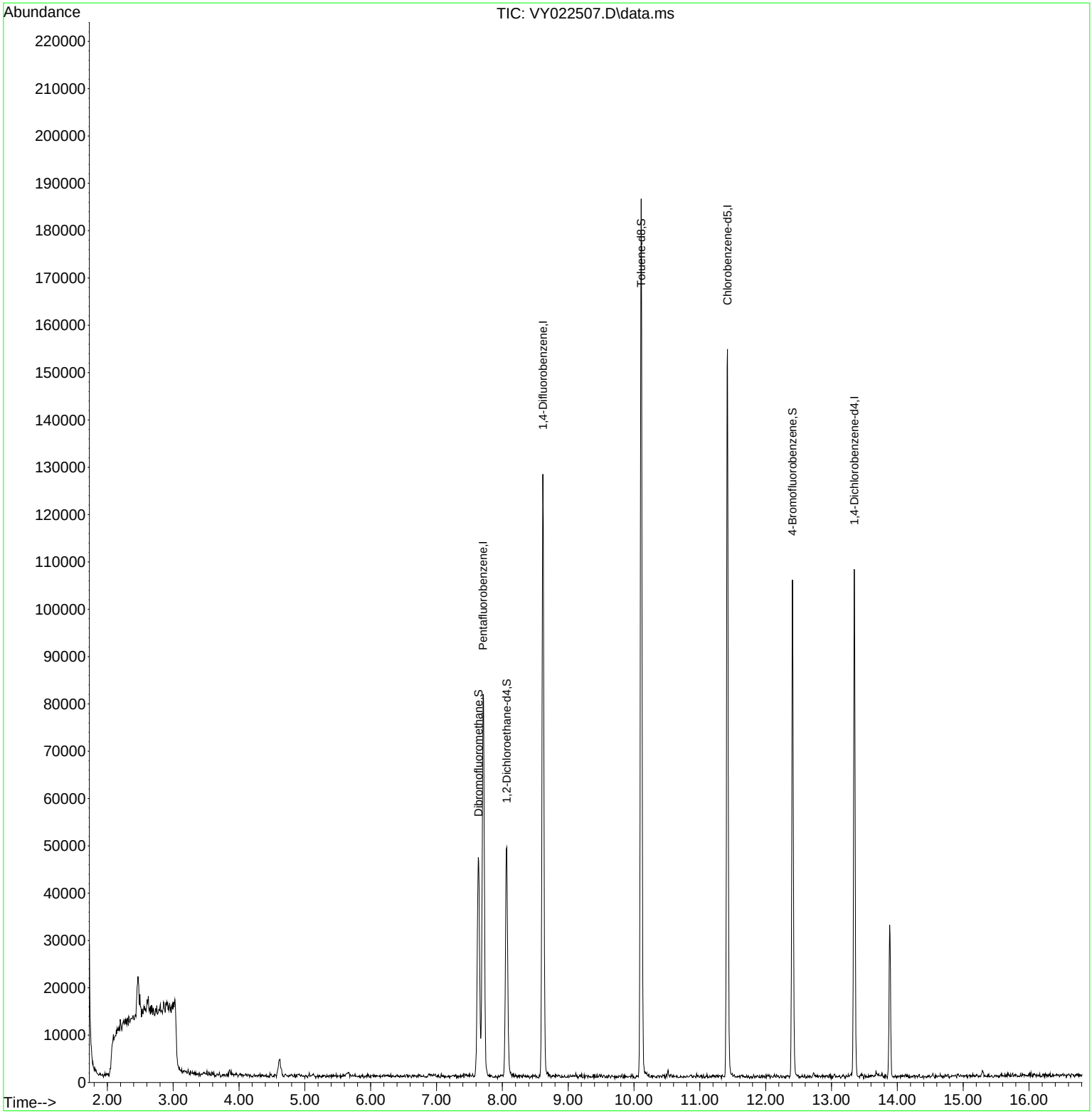
Target Compounds Qvalue

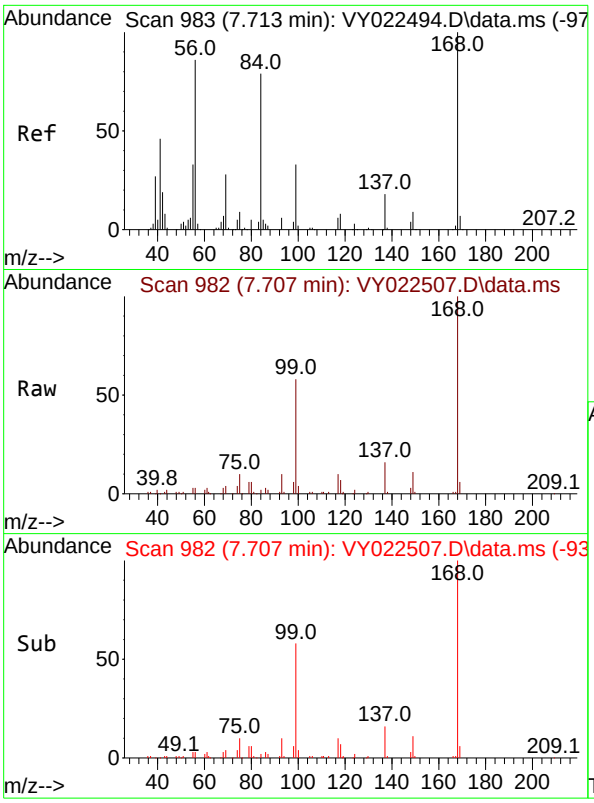
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022507.D
Acq On : 02 Jun 2025 19:08
Operator : SY/MD
Sample : Q2150-05RE
Misc : 7.48g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-47RE

Quant Time: Jun 03 04:10:19 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



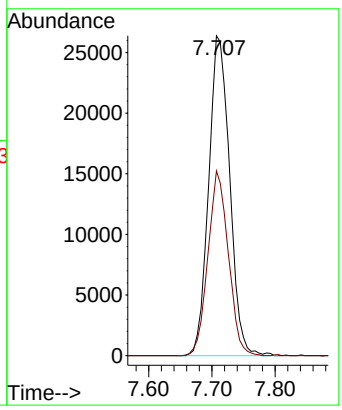


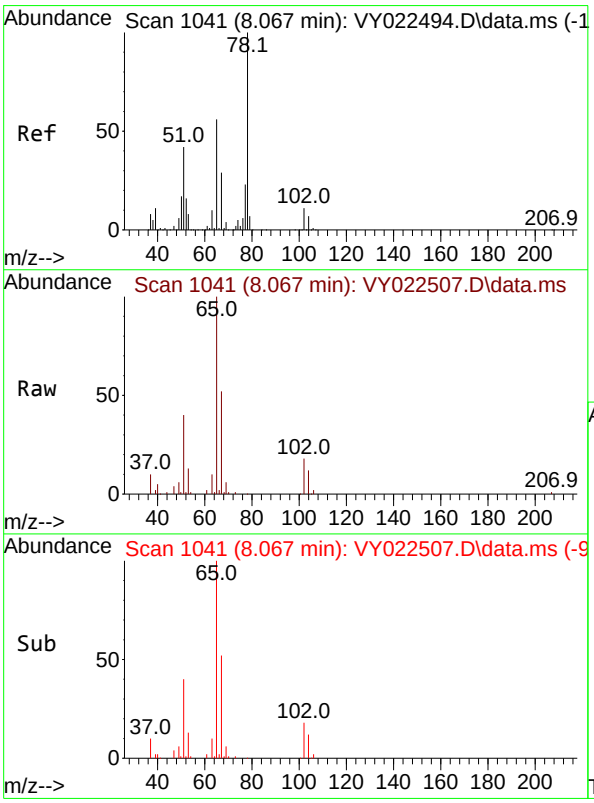
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022507.D
Acq: 02 Jun 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-47RE

Tgt Ion:168 Resp: 60813

Ion	Ratio	Lower	Upper
168	100		
99	57.7	44.3	66.5

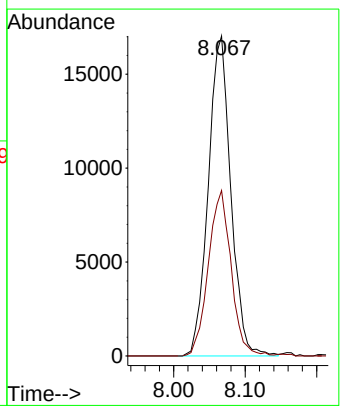


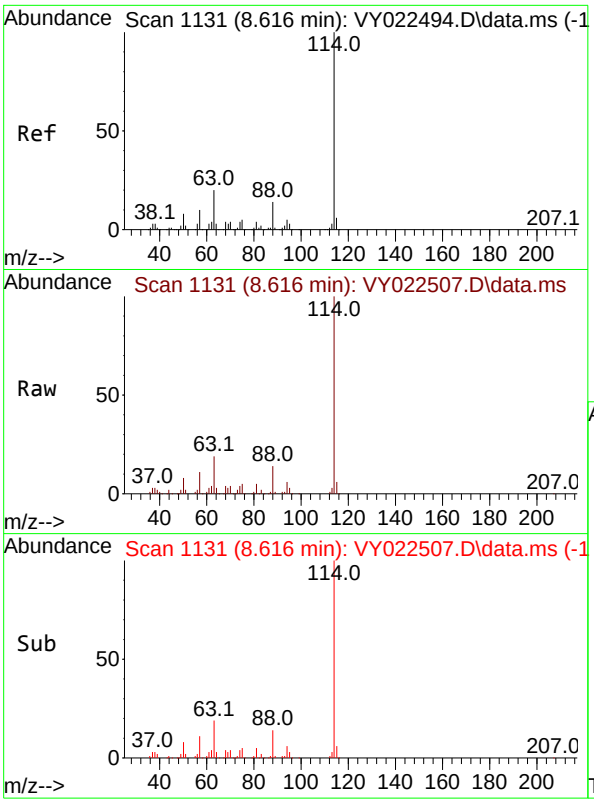


#33
1,2-Dichloroethane-d4
Concen: 54.892 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022507.D
Acq: 02 Jun 2025 19:08

Tgt Ion: 65 Resp: 37335

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.4



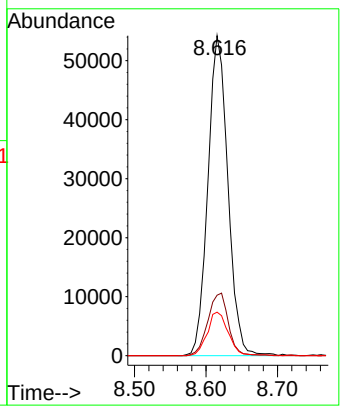


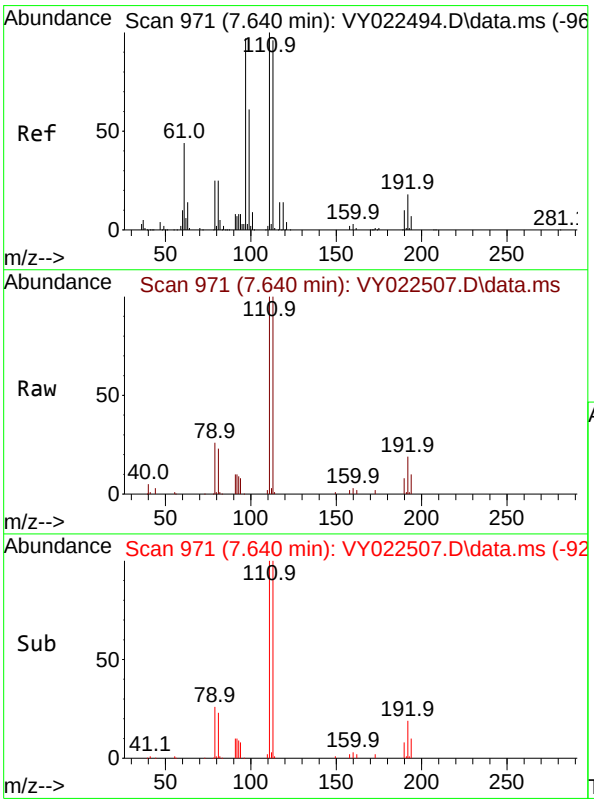
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022507.D
Acq: 02 Jun 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-47RE

Tgt Ion:114 Resp: 105433

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	40.8
88	13.6	0.0	27.8

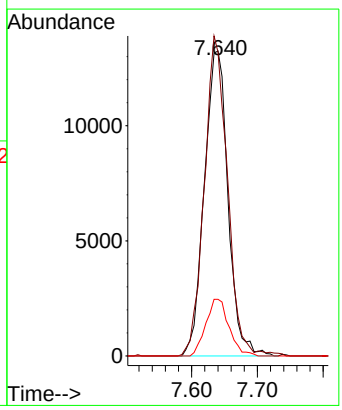


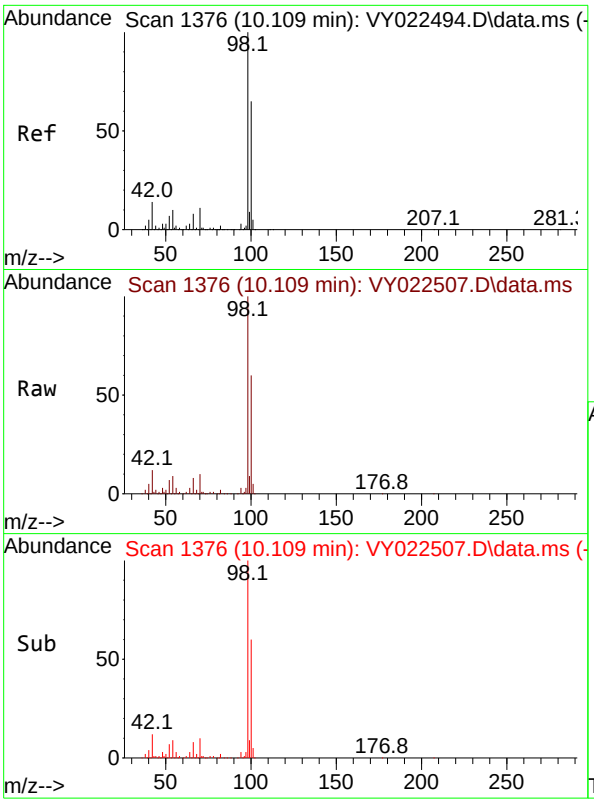


#35
Dibromofluoromethane
Concen: 52.861 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY022507.D
Acq: 02 Jun 2025 19:08

Tgt Ion:113 Resp: 33266

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.1	121.7
192	18.2	14.2	21.2



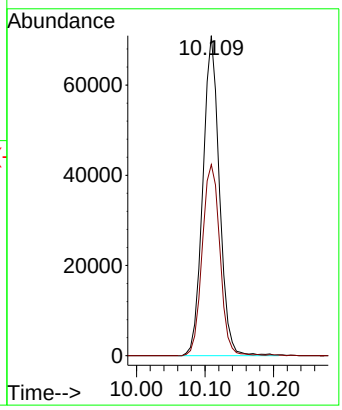


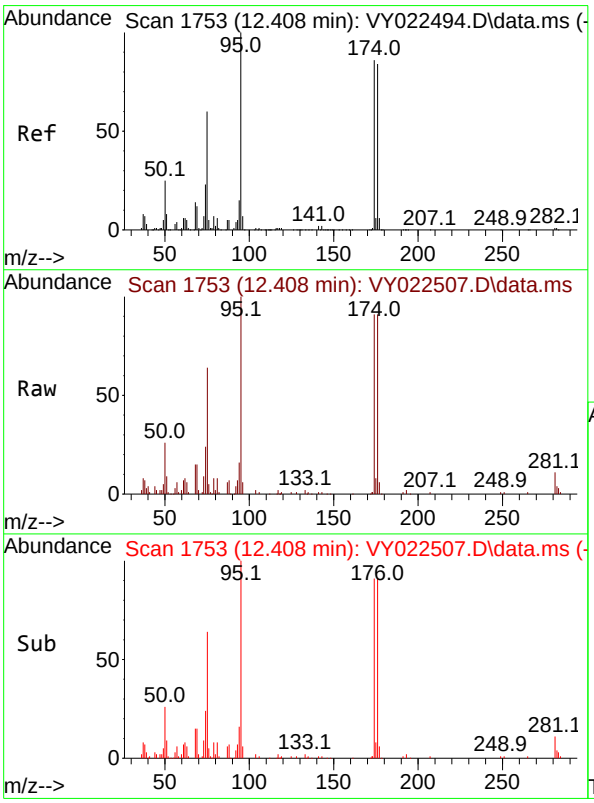
#50
Toluene-d8
Concen: 46.982 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022507.D
Acq: 02 Jun 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-47RE

Tgt Ion: 98 Resp: 119467

Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.4	77.0

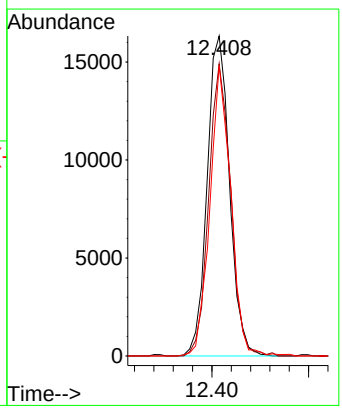


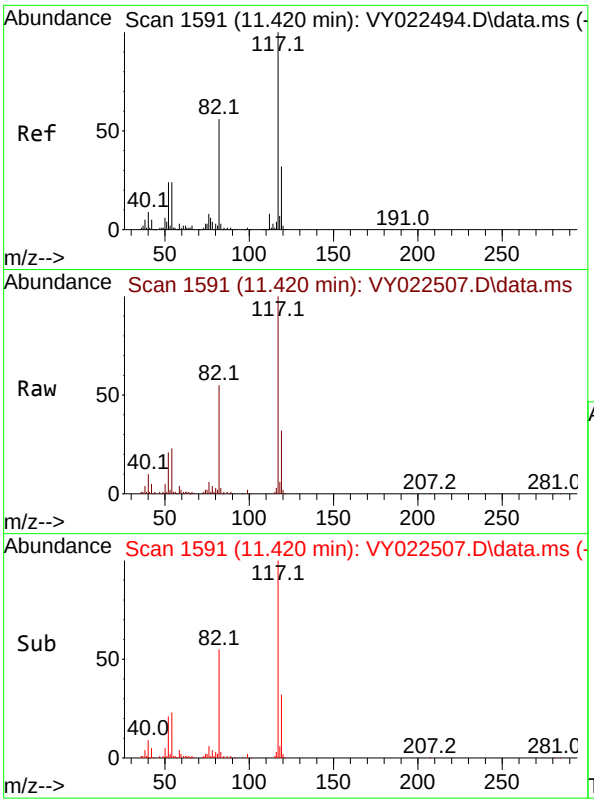


#62
4-Bromofluorobenzene
Concen: 34.755 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022507.D
Acq: 02 Jun 2025 19:08

Tgt Ion: 95 Resp: 26331

Ion	Ratio	Lower	Upper
95	100		
174	89.2	0.0	170.0
176	84.4	0.0	166.2



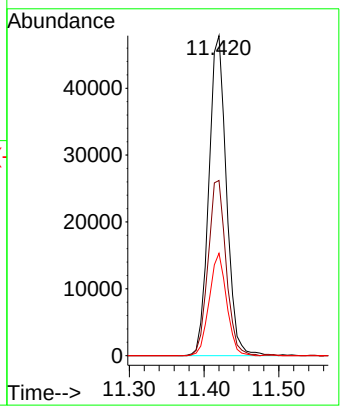


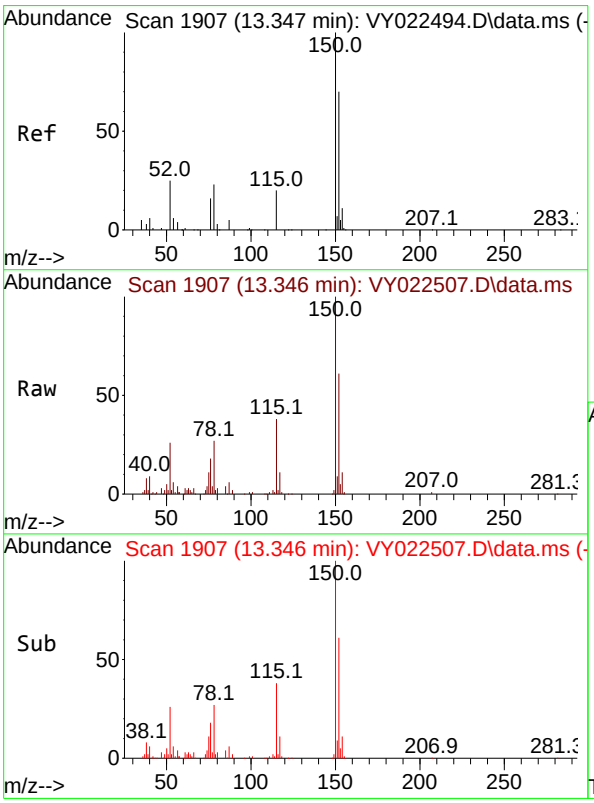
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022507.D
Acq: 02 Jun 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
TP-47RE

Tgt Ion:117 Resp: 78237

Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.6	66.8
119	32.0	25.4	38.0

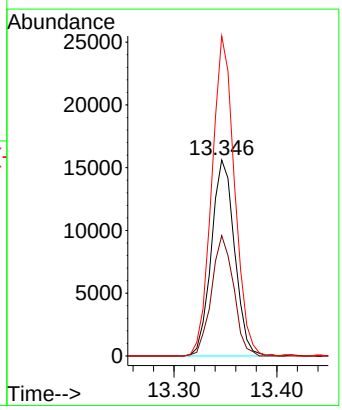




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022507.D
Acq: 02 Jun 2025 19:08

Tgt Ion:152 Resp: 24479

Ion	Ratio	Lower	Upper
152	100		
115	58.5	28.9	86.7
150	160.1	0.0	349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022465.D
Acq On : 29 May 2025 14:22
Operator : SY/MD
Sample : Q2150-06
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-50

Quant Time: May 30 05:35:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	284911	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	538977	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	400662	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	115590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	162327	54.091	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.180%			
35) Dibromofluoromethane	7.640	113	161633	51.208	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.420%			
50) Toluene-d8	10.109	98	633488	49.232	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.460%			
62) 4-Bromofluorobenzene	12.408	95	140518	36.103	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 72.200%			

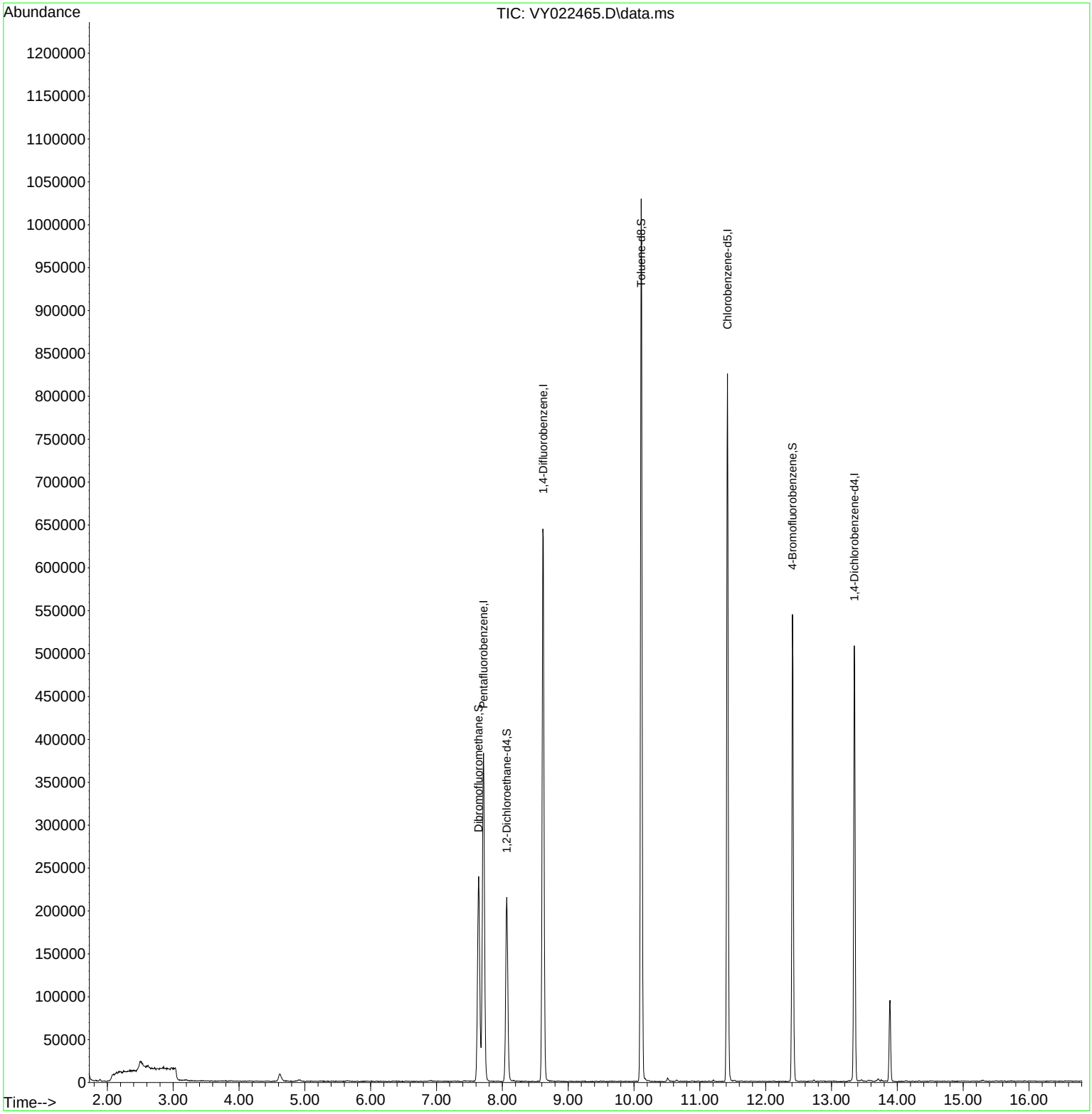
Target Compounds Qvalue

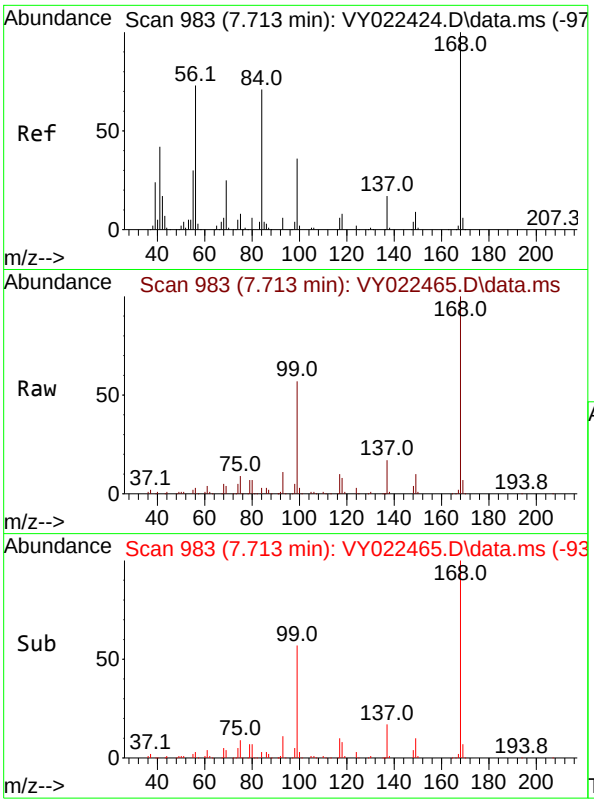
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022465.D
Acq On : 29 May 2025 14:22
Operator : SY/MD
Sample : Q2150-06
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-50

Quant Time: May 30 05:35:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



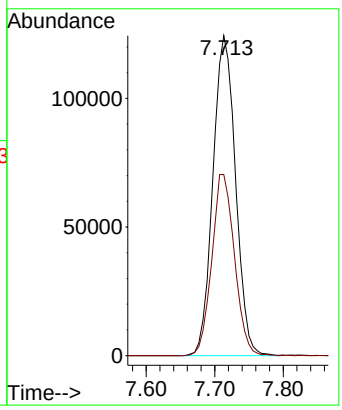


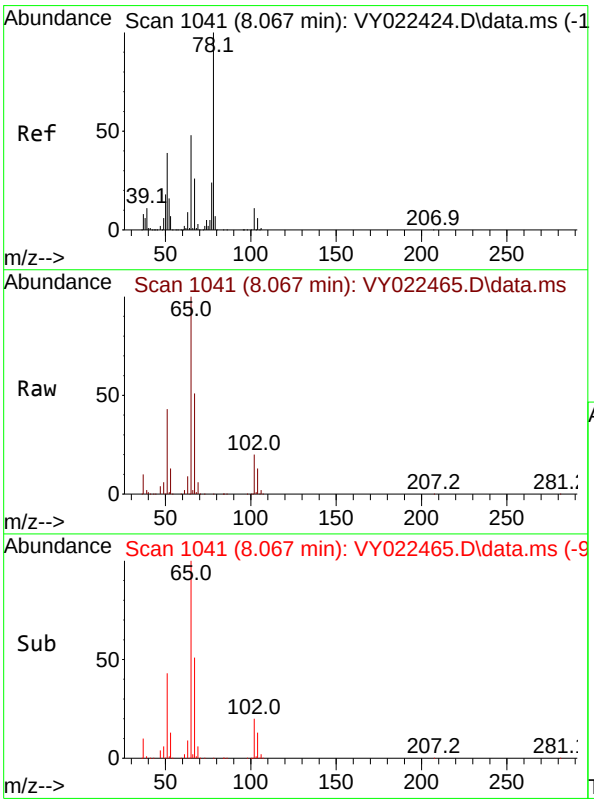
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022465.D
Acq: 29 May 2025 14:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-50

Tgt Ion:168 Resp: 284911

Ion	Ratio	Lower	Upper
168	100		
99	56.6	44.7	67.1

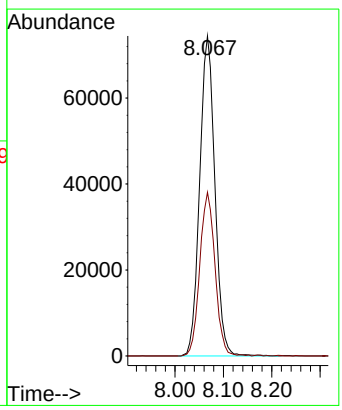


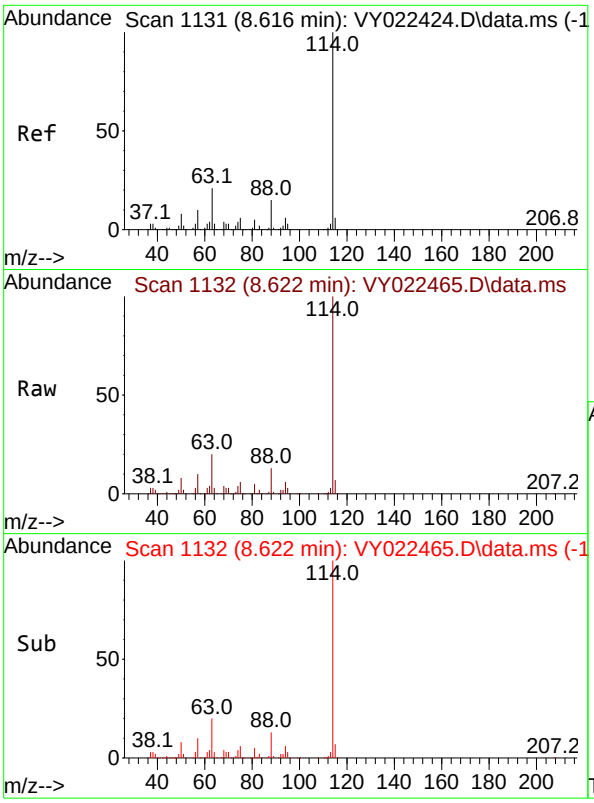


#33
1,2-Dichloroethane-d4
Concen: 54.091 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY022465.D
Acq: 29 May 2025 14:22

Tgt Ion: 65 Resp: 162327

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	104.4



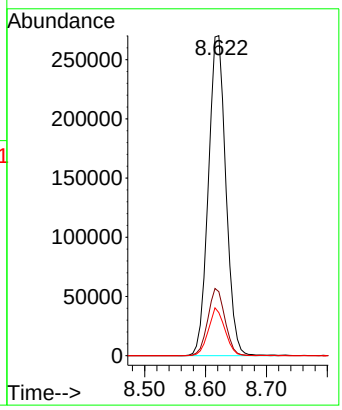


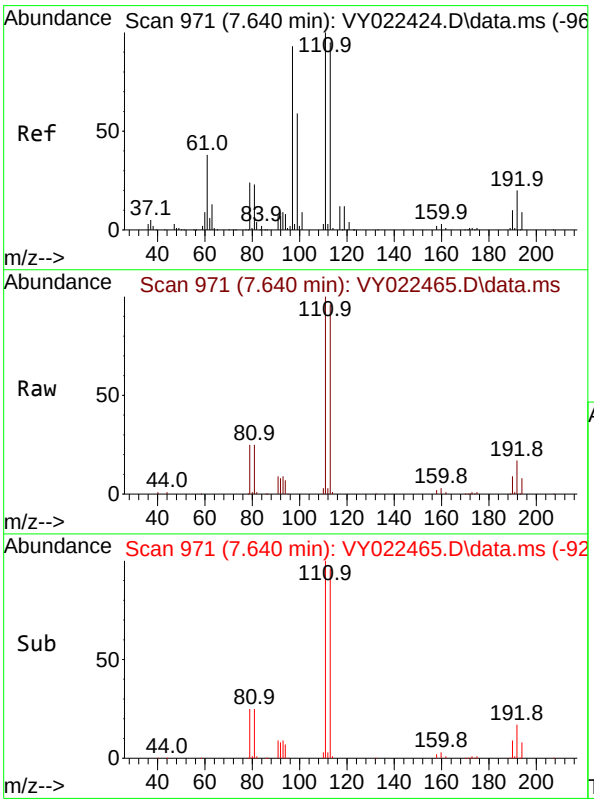
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022465.D
Acq: 29 May 2025 14:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-50

Tgt Ion:114 Resp: 538977

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	42.6
88	13.4	0.0	29.4

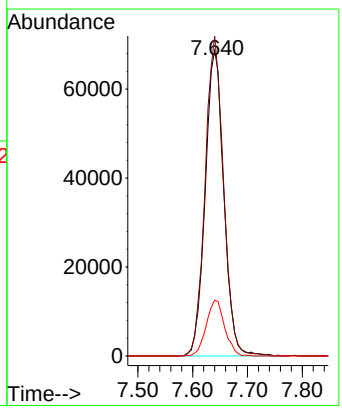


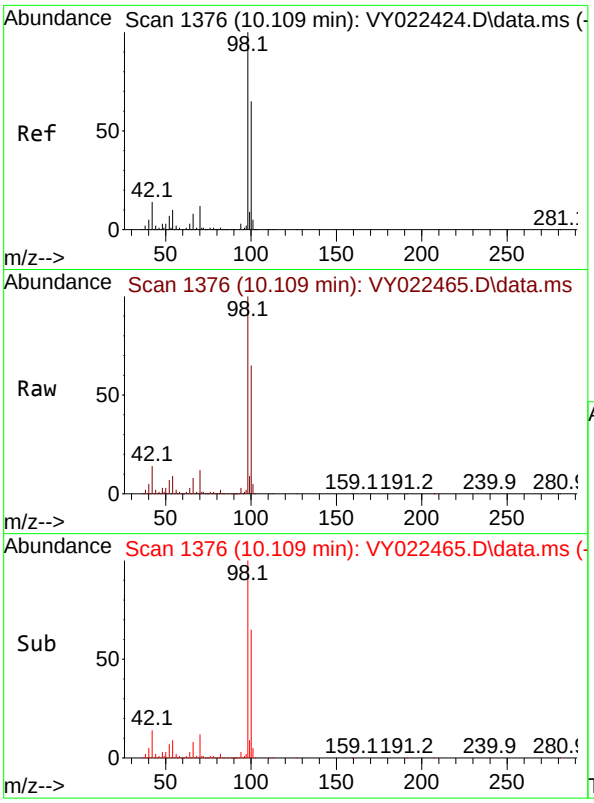


#35
Dibromofluoromethane
Concen: 51.208 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.000 min
Lab File: VY022465.D
Acq: 29 May 2025 14:22

Tgt Ion:113 Resp: 161633

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	18.1	15.2	22.8



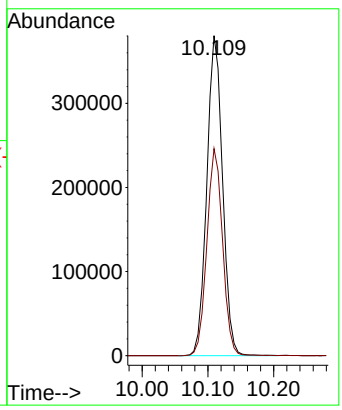


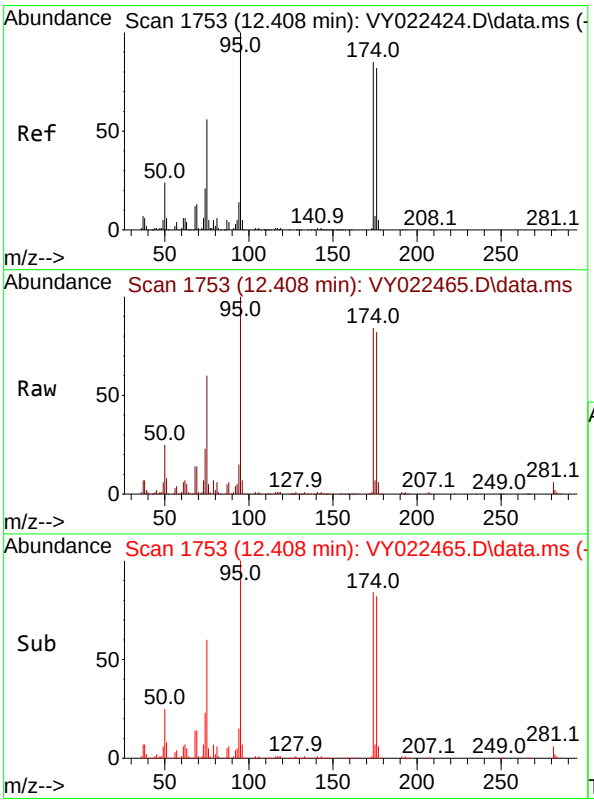
#50
Toluene-d8
Concen: 49.232 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022465.D
Acq: 29 May 2025 14:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-50

Tgt Ion: 98 Resp: 633488

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2

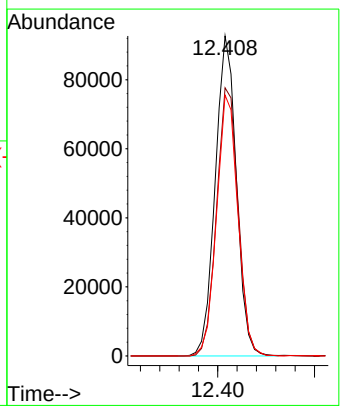


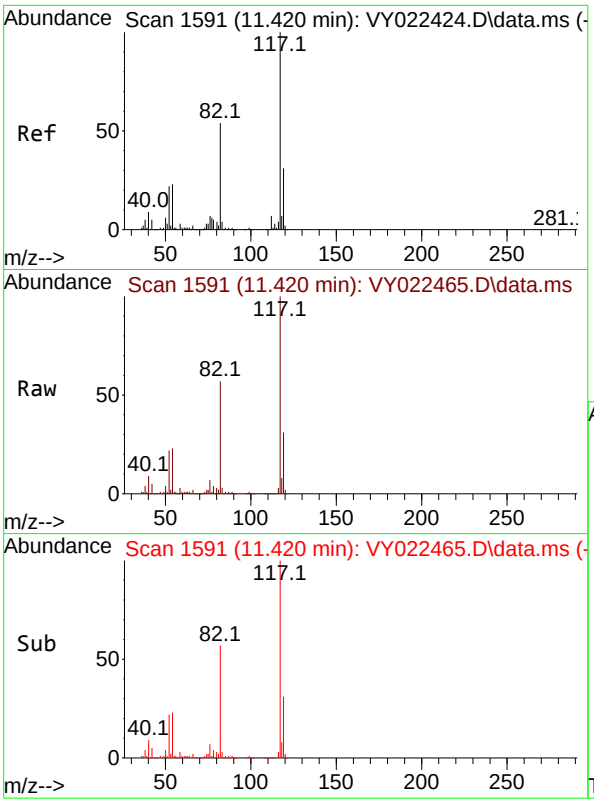


#62
4-Bromofluorobenzene
Concen: 36.103 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022465.D
Acq: 29 May 2025 14:22

Tgt Ion: 95 Resp: 140518

Ion	Ratio	Lower	Upper
95	100		
174	85.8	0.0	171.6
176	82.2	0.0	164.6



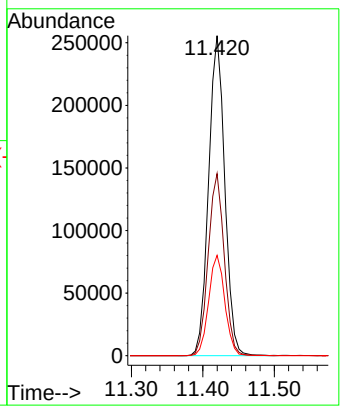


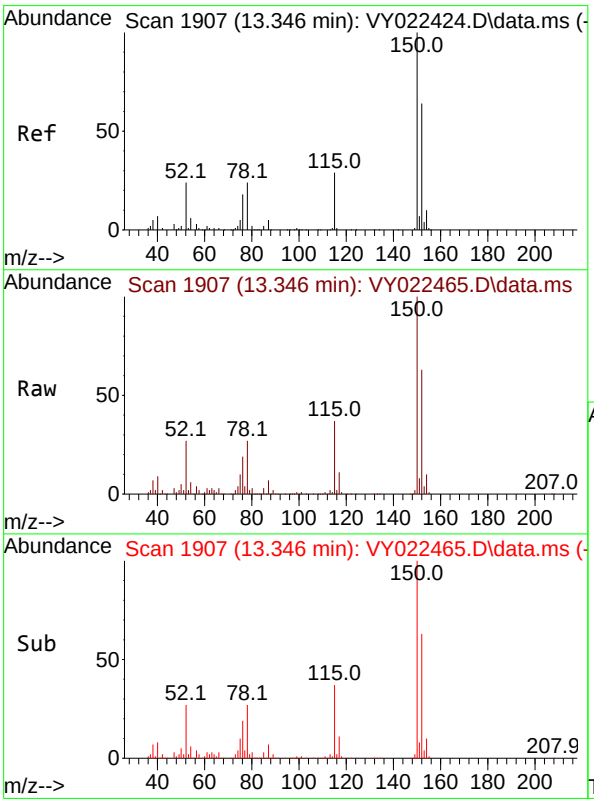
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022465.D
Acq: 29 May 2025 14:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-50

Tgt Ion:117 Resp: 400662

Ion	Ratio	Lower	Upper
117	100		
82	56.9	43.3	64.9
119	31.4	24.5	36.7

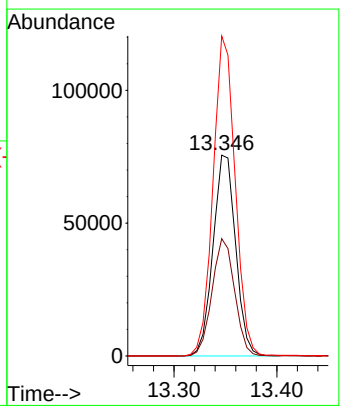




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022465.D
Acq: 29 May 2025 14:22

Tgt Ion:152 Resp: 115590

Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.4	85.3
150	156.2	0.0	345.8



Sample Results: **VY022465.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022465.D
Acq On : 29 May 2025 14:22
Operator : SY/MD
Sample : Q2150-06
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-50

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\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022465.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.507	118	129	133	rBV5	11797	40400	2.34%	0.500%
2	4.616	468	475	486	rVB4	8257	24421	1.42%	0.302%
3	7.640	961	971	977	rBV	238606	561416	32.58%	6.945%
4	7.713	977	983	1000	rVB2	382839	873425	50.69%	10.805%
5	8.067	1030	1041	1054	rBV	214978	478920	27.80%	5.924%
6	8.616	1123	1131	1143	rBV	644224	1278864	74.22%	15.820%
7	10.109	1367	1376	1385	rBV	1029189	1723031	100.00%	21.315%
8	11.420	1582	1591	1600	rBV	825221	1316511	76.41%	16.286%
9	12.408	1746	1753	1763	rVB2	544087	861355	49.99%	10.655%
10	13.346	1896	1907	1916	rBV	507993	773529	44.89%	9.569%
11	13.889	1989	1996	2003	rBV2	94493	151938	8.82%	1.880%

Sum of corrected areas: 8083810

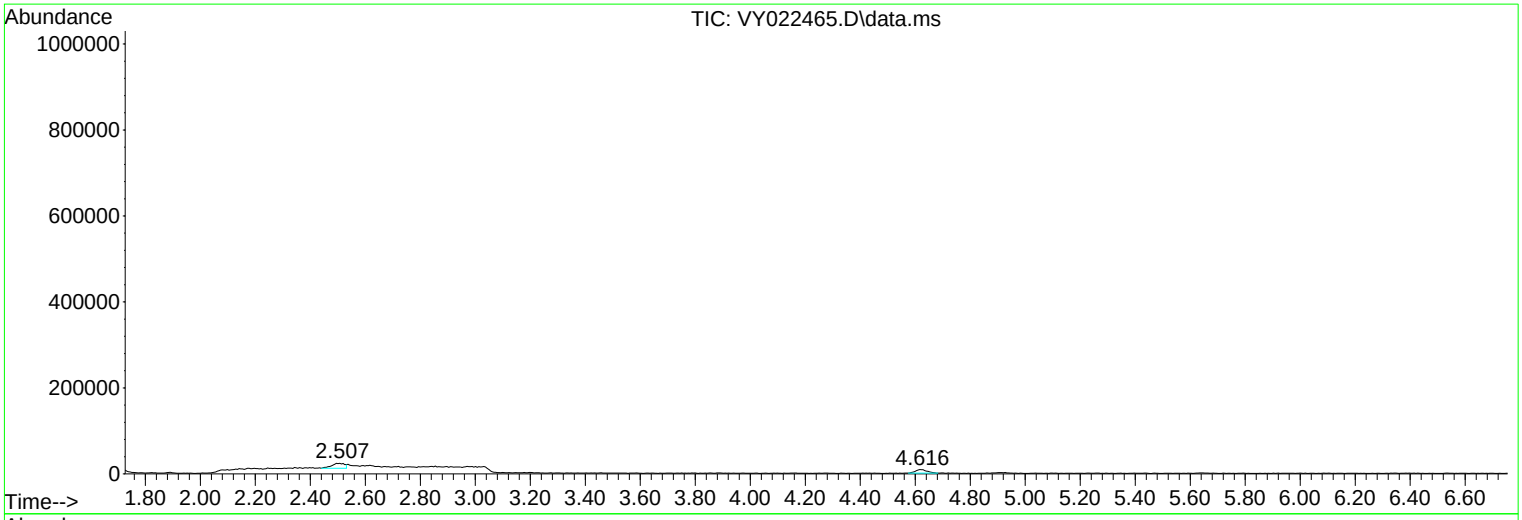
Sample Results: **VY022465.D**

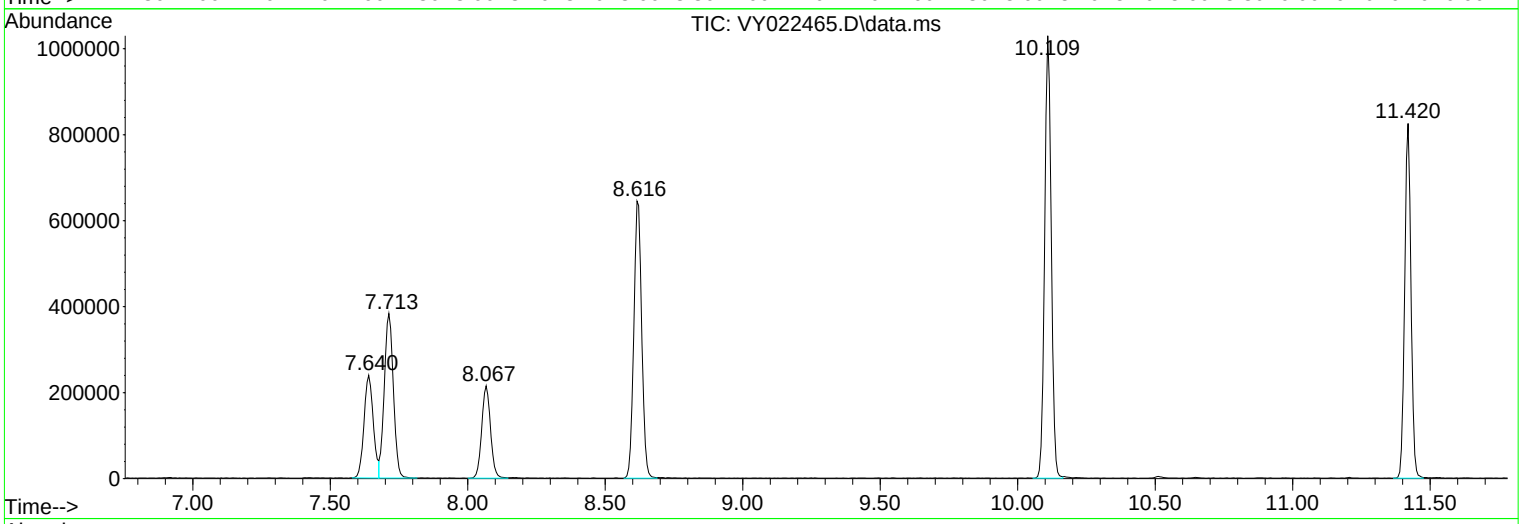
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022465.D
Acq On : 29 May 2025 14:22
Operator : SY/MD
Sample : Q2150-06
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

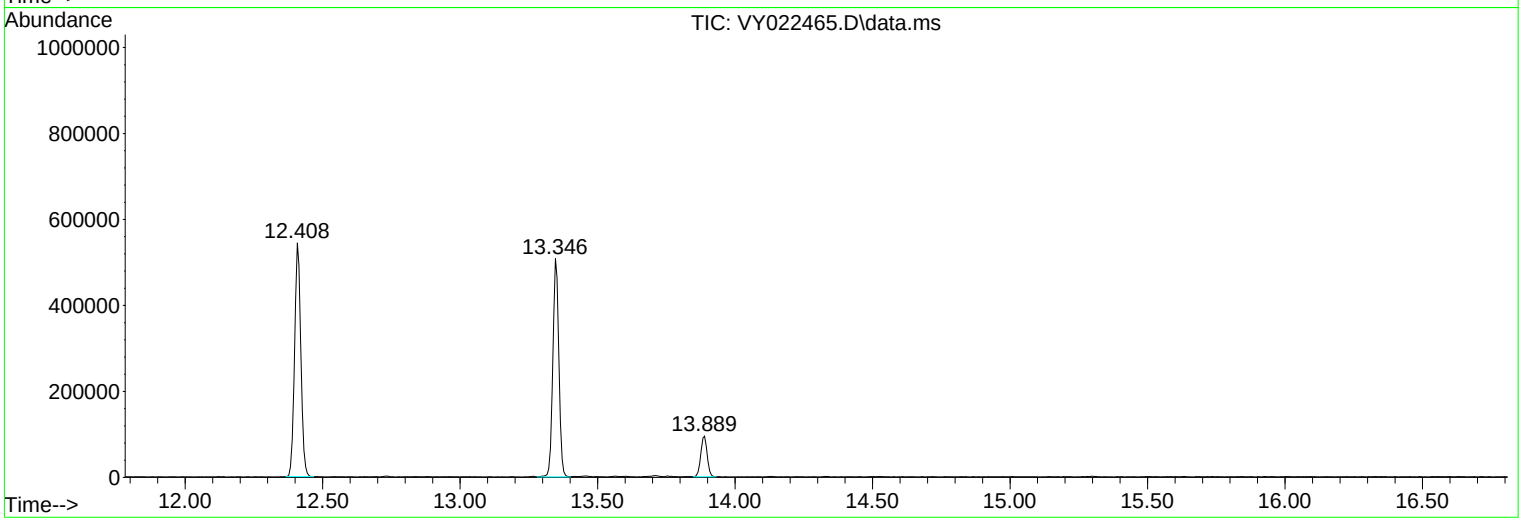
Instrument :
MSVOA_Y
ClientSampleId :
TP-50

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022465.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022465.D
Acq On : 29 May 2025 14:22
Operator : SY/MD
Sample : Q2150-06
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-50

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022465.D
Acq On : 29 May 2025 14:22
Operator : SY/MD
Sample : Q2150-06
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-50

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Quant Time: May 30 05:35:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

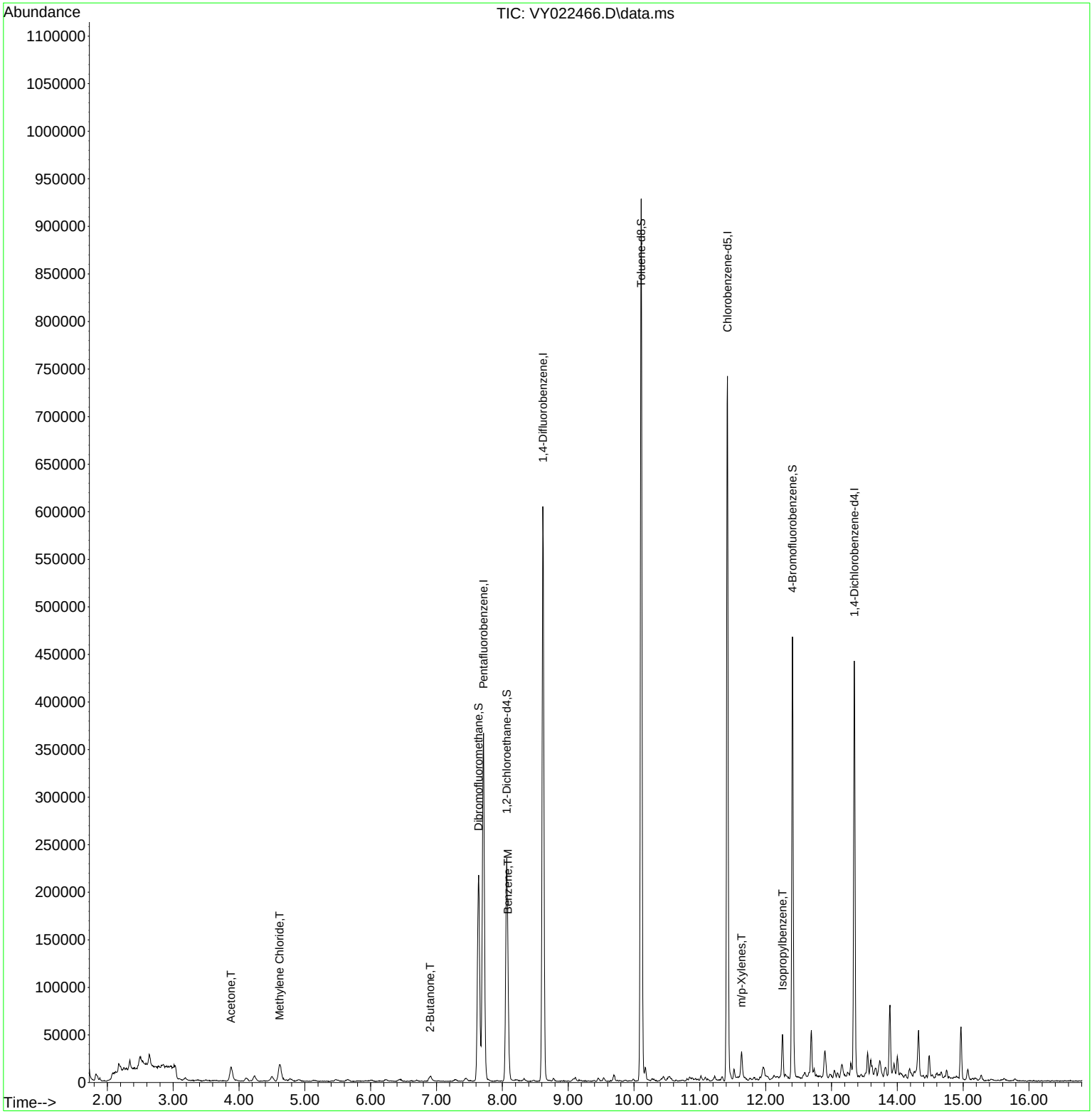
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	266889	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	485834	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	362765	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	99703	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	155794	55.420	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.840%			
35) Dibromofluoromethane	7.640	113	149024	52.377	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.760%			
50) Toluene-d8	10.109	98	575624	49.629	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.260%			
62) 4-Bromofluorobenzene	12.408	95	122932	35.039	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 70.080%			
Target Compounds						Qvalue
16) Acetone	3.879	43	27941	60.486	ug/l	92
20) Methylene Chloride	4.616	84	12702	3.894	ug/l	95
25) 2-Butanone	6.902	43	8812	11.454	ug/l #	85
40) Benzene	8.085	78	47372	3.526	ug/l	93
68) m/p-Xylenes	11.633	106	8212	1.508	ug/l	98
73) Isopropylbenzene	12.255	105	28214	3.596	ug/l	99

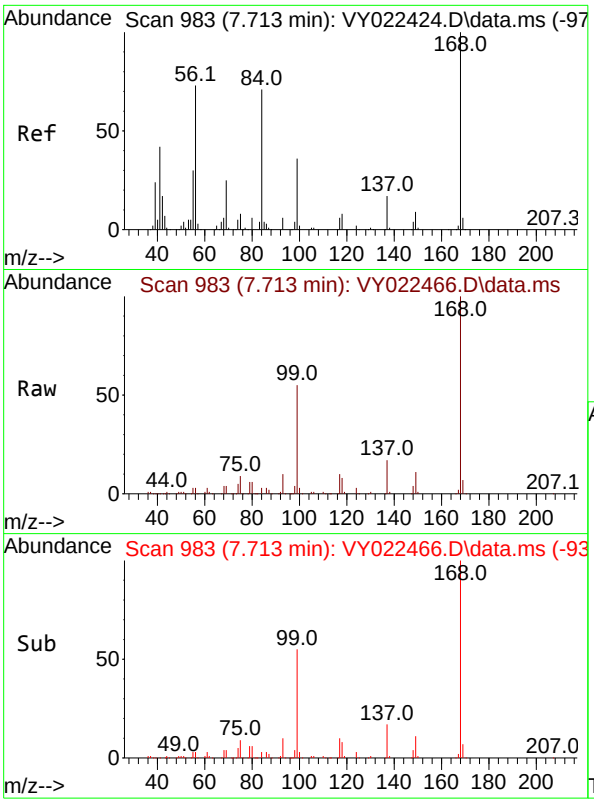
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Quant Time: May 30 05:35:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



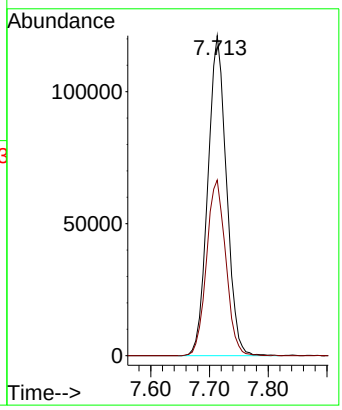


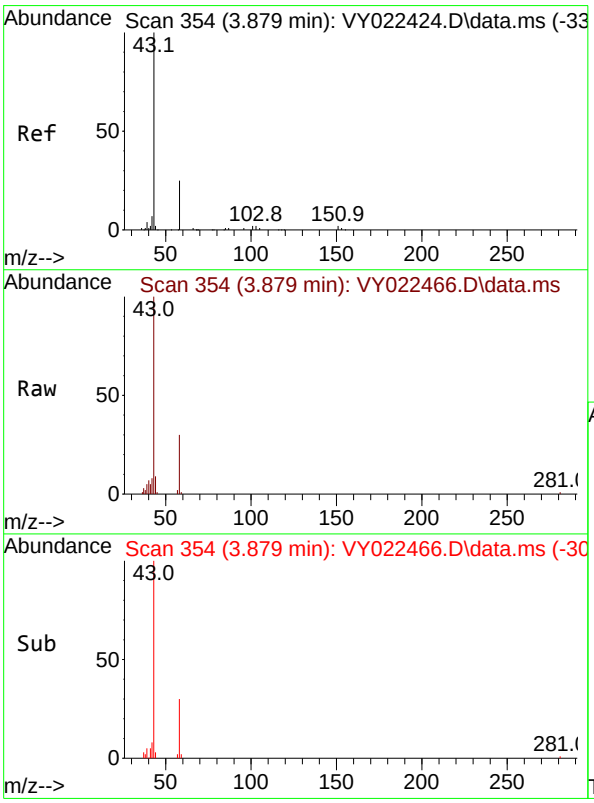
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Tgt Ion:168 Resp: 266889

Ion	Ratio	Lower	Upper
168	100		
99	54.9	44.7	67.1

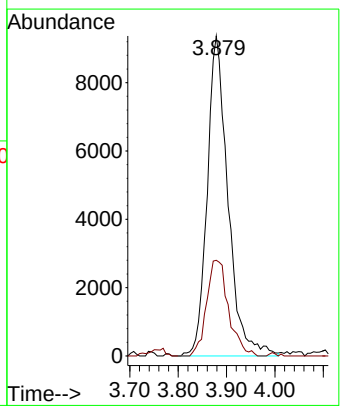


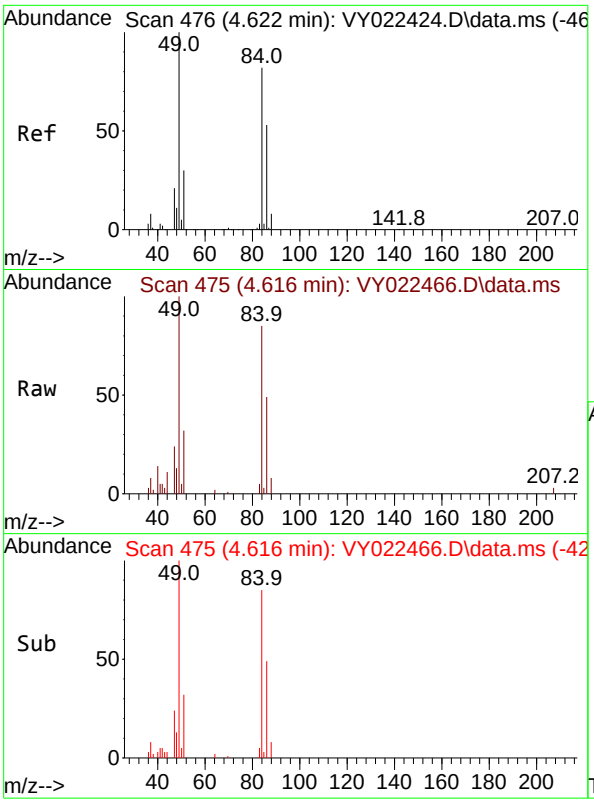


#16
Acetone
Concen: 60.486 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Tgt Ion: 43 Resp: 27941

Ion	Ratio	Lower	Upper
43	100		
58	29.9	20.6	30.8



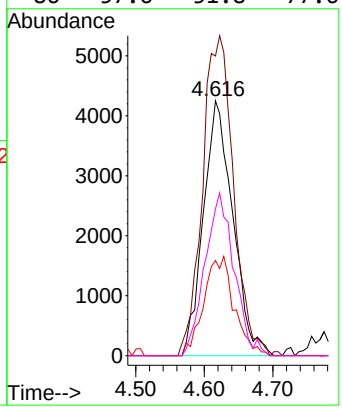


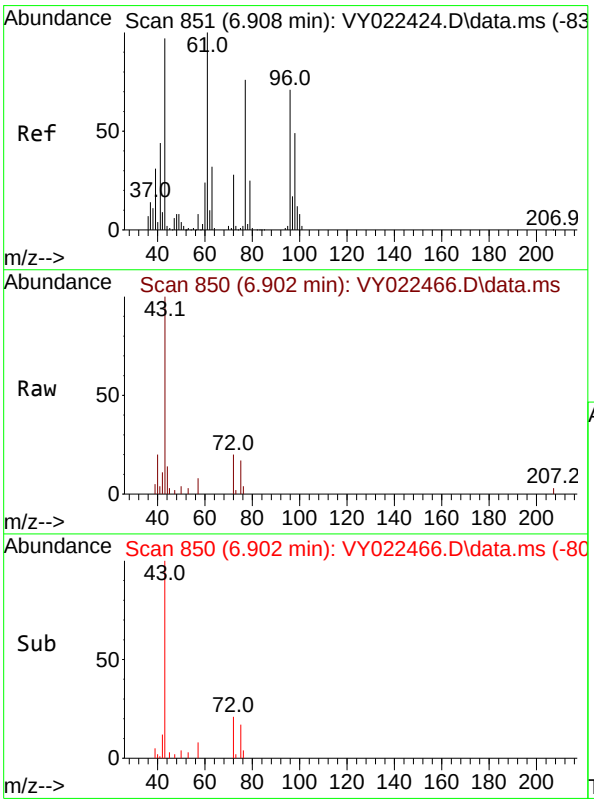
#20
Methylene Chloride
Concen: 3.894 ug/l
RT: 4.616 min Scan# 4
Delta R.T. -0.006 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Tgt Ion: 84 Resp: 12702

Ion	Ratio	Lower	Upper
84	100		
49	117.6	97.8	146.8
51	37.4	29.5	44.3
86	57.6	51.8	77.6

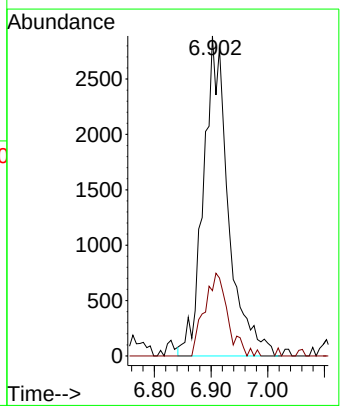


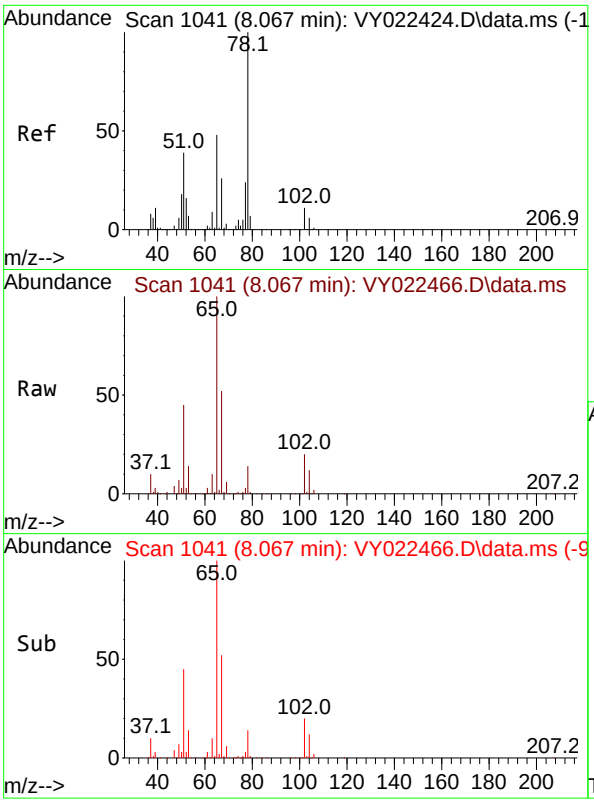


#25
2-Butanone
Concen: 11.454 ug/l
RT: 6.902 min Scan# 850
Delta R.T. -0.006 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Tgt Ion: 43 Resp: 8812

Ion	Ratio	Lower	Upper
43	100		
72	20.4	22.8	34.2#



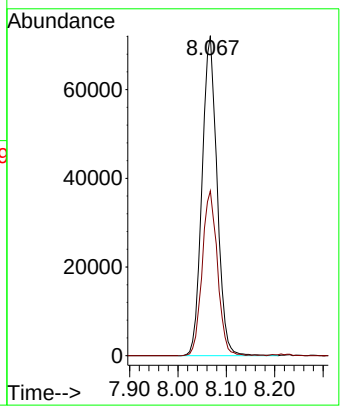


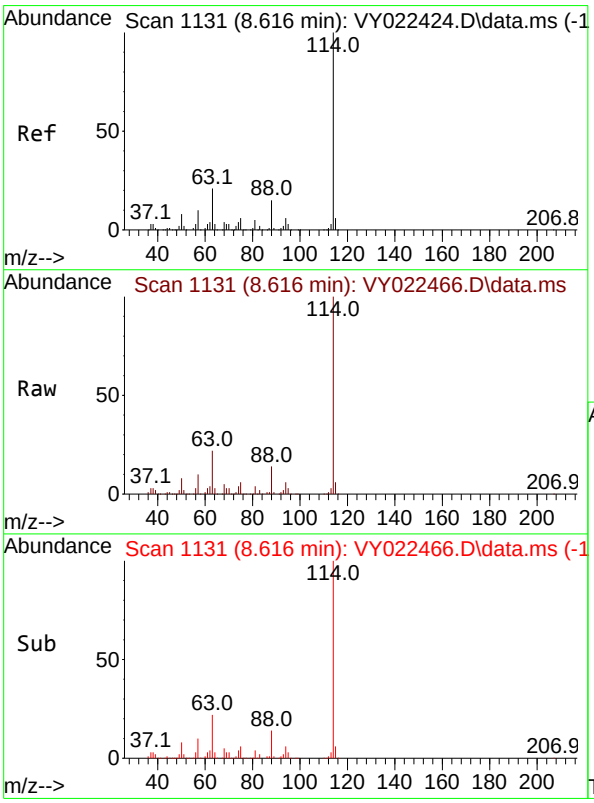
#33
1,2-Dichloroethane-d4
Concen: 55.420 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Tgt Ion: 65 Resp: 155794

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.4

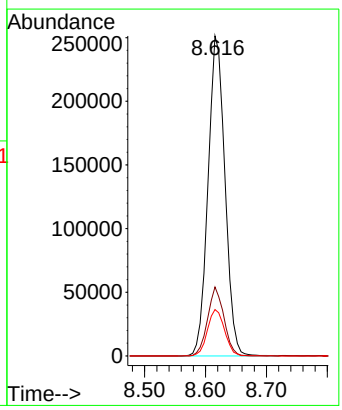


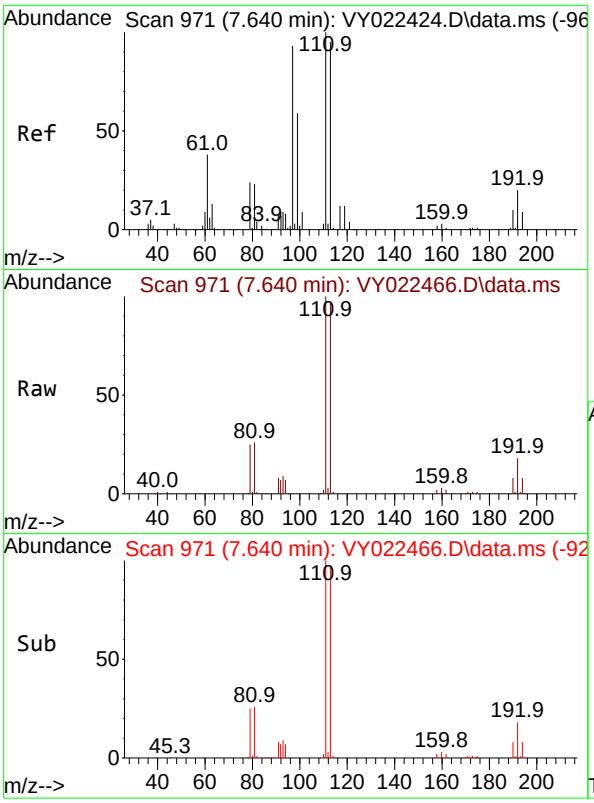


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Tgt Ion:114 Resp: 485834

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.6
88	14.5	0.0	29.4



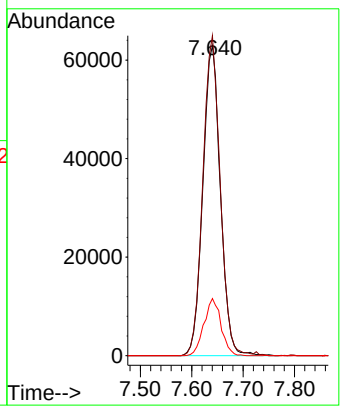


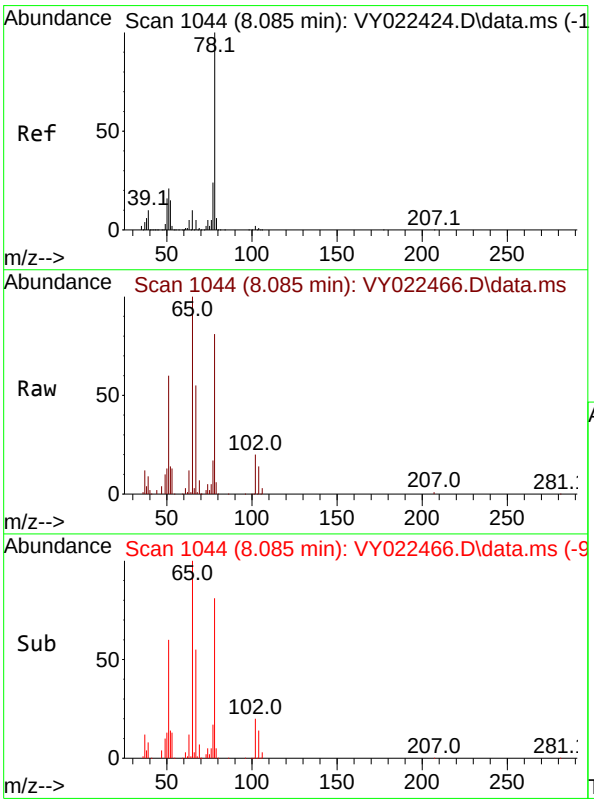
#35
Dibromofluoromethane
Concen: 52.377 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Tgt Ion:113 Resp: 149024

Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.4	123.6
192	18.0	15.2	22.8

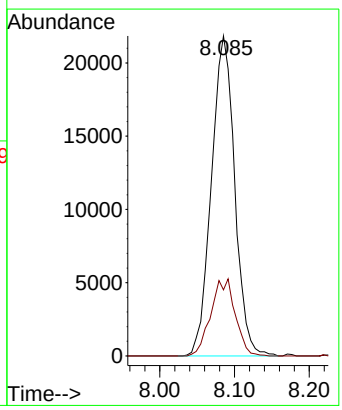


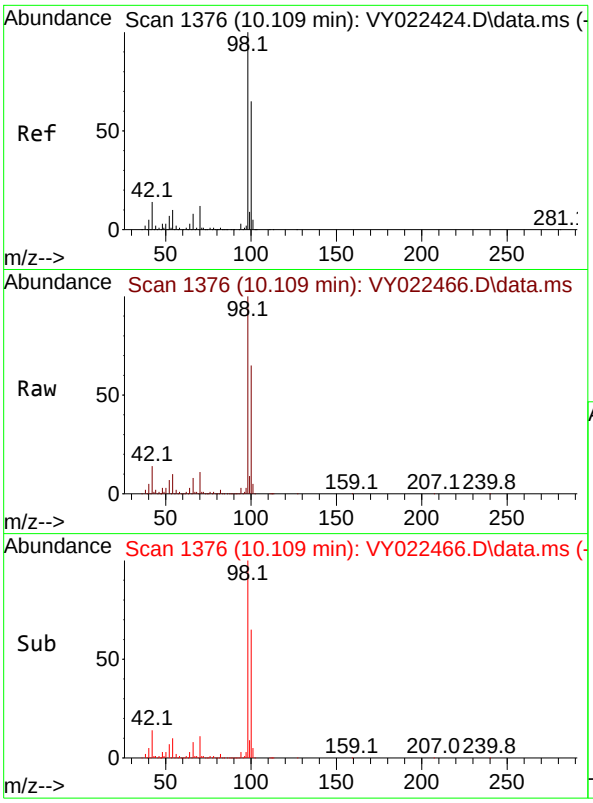


#40
Benzene
Concen: 3.526 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Tgt Ion: 78 Resp: 47372

Ion	Ratio	Lower	Upper
78	100		
77	20.7	19.4	29.2



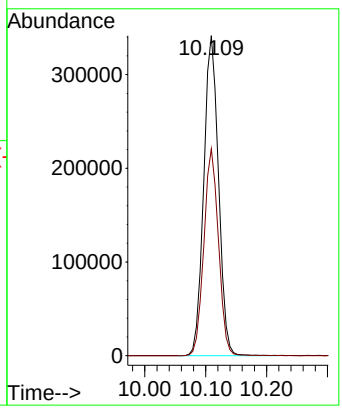


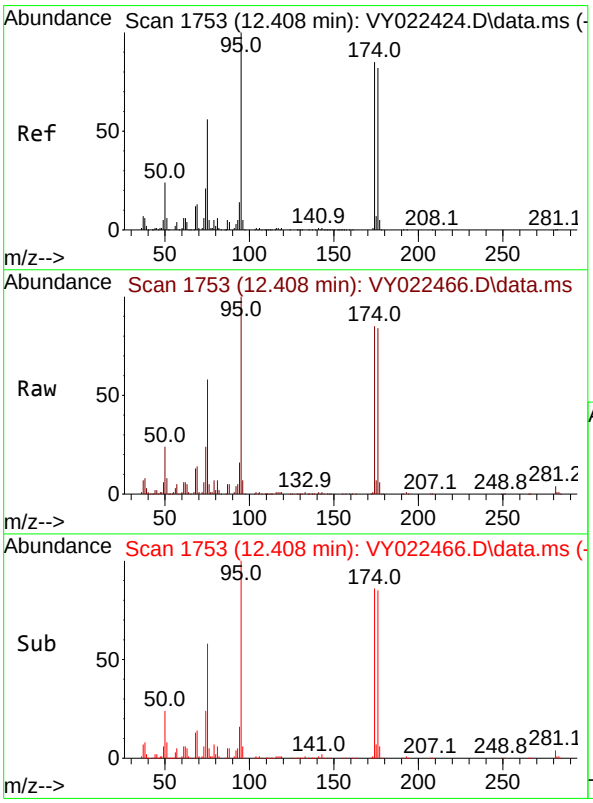
#50
Toluene-d8
Concen: 49.629 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Tgt Ion: 98 Resp: 575624

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.2	78.2

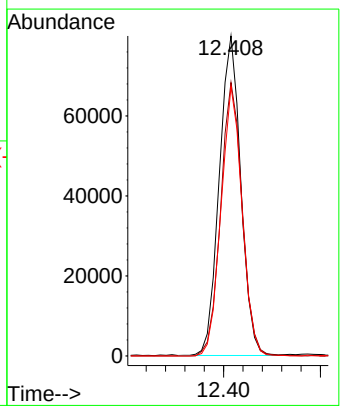


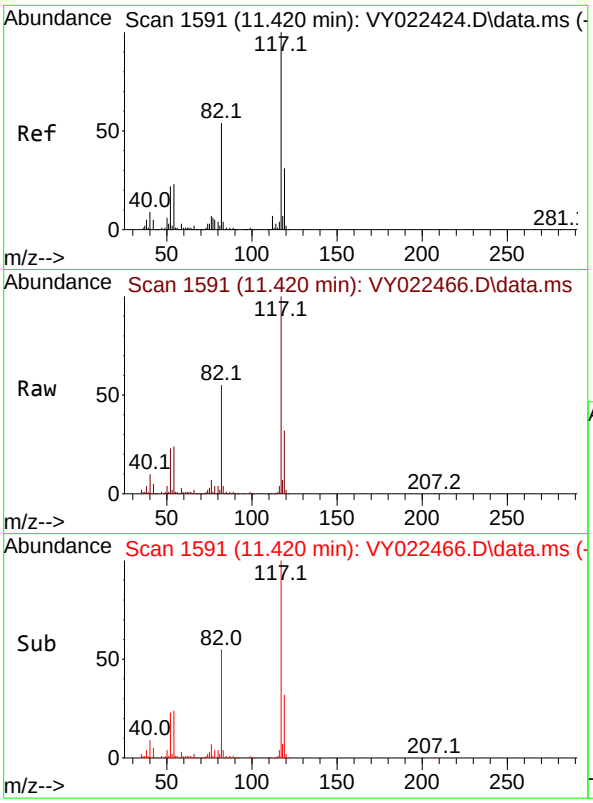


#62
4-Bromofluorobenzene
Concen: 35.039 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Tgt Ion: 95 Resp: 122932

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	171.6
176	82.6	0.0	164.6



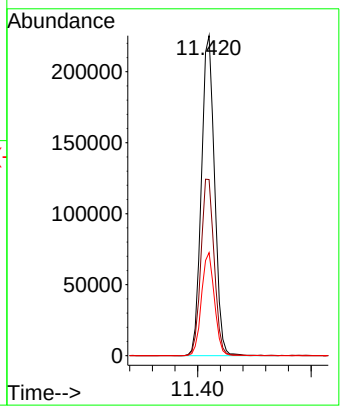


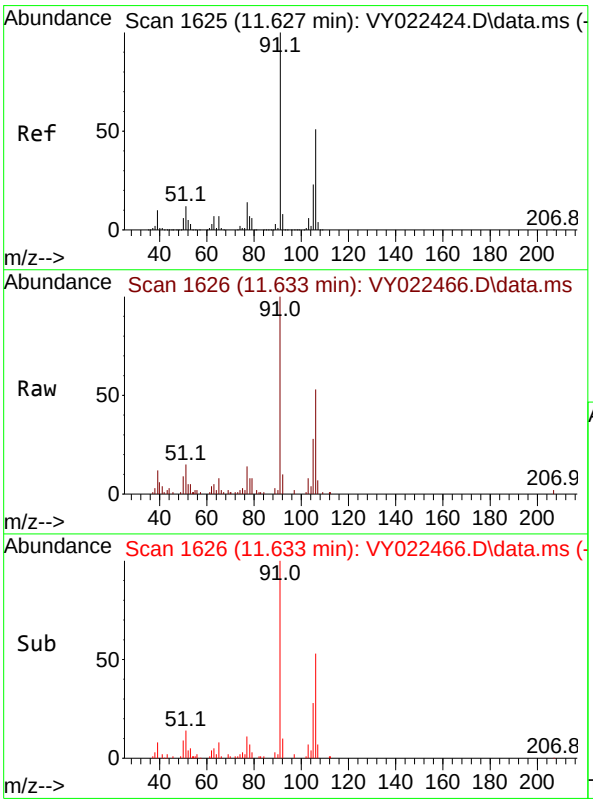
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Tgt Ion:117 Resp: 362765

Ion	Ratio	Lower	Upper
117	100		
82	55.0	43.3	64.9
119	32.2	24.5	36.7

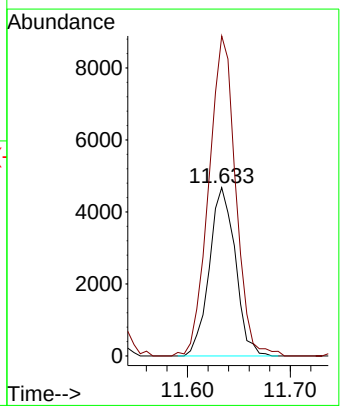


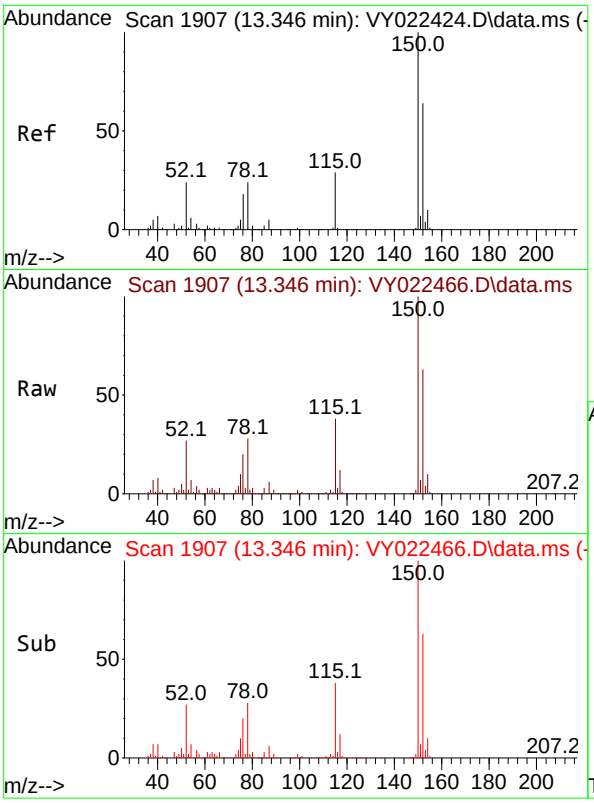


#68
m/p-Xylenes
Concen: 1.508 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Tgt Ion:106 Resp: 8212

Ion	Ratio	Lower	Upper
106	100		
91	196.8	159.8	239.8



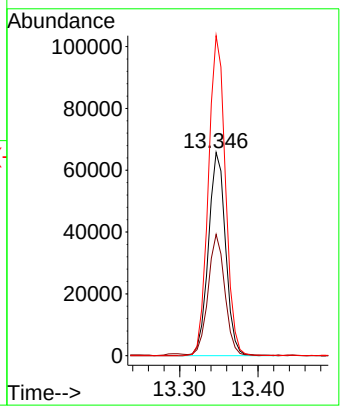


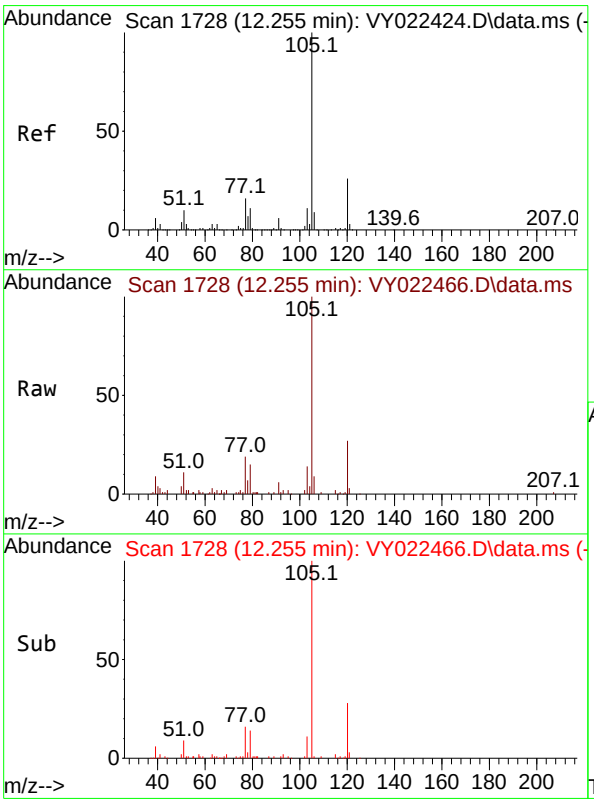
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Tgt Ion:152 Resp: 99703

Ion	Ratio	Lower	Upper
152	100		
115	58.4	28.4	85.3
150	156.5	0.0	345.8

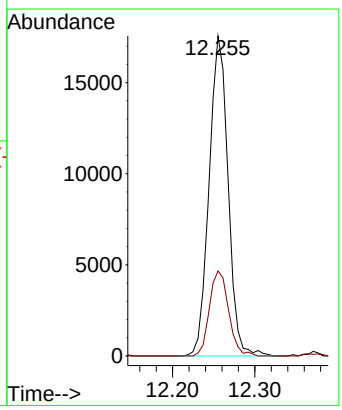




#73
Isopropylbenzene
Concen: 3.596 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY022466.D
Acq: 29 May 2025 14:46

Tgt Ion:105 Resp: 28214

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.2	39.5



Sample Results: **VY022466.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

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\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022466.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	13	17	25	rBV4	6558	15889	1.01%	0.188%
2	2.086	44	60	62	rBV4	8870	24786	1.57%	0.294%
3	2.172	71	74	83	rBV4	8333	19856	1.26%	0.235%
4	2.342	97	102	107	rBV	10526	18698	1.18%	0.222%
5	2.495	120	127	128	rBV3	12458	21890	1.39%	0.259%
6	2.635	147	150	160	rVB2	13129	26103	1.65%	0.309%
7	3.879	344	354	365	rBV	14891	45664	2.89%	0.541%
8	4.238	405	413	424	rVB5	5834	17403	1.10%	0.206%
9	4.622	466	476	489	rBV4	17481	60252	3.81%	0.714%
10	7.640	960	971	977	rBV	216474	521698	33.01%	6.181%
11	7.713	977	983	993	rVB	364439	807387	51.09%	9.566%
12	8.067	1030	1041	1057	rBV2	234652	571116	36.14%	6.767%
13	8.616	1122	1131	1144	rBV	604092	1163584	73.63%	13.787%
14	10.109	1368	1376	1384	rBV	927186	1580295	100.00%	18.724%
15	10.170	1384	1386	1399	rVB2	14022	23016	1.46%	0.273%
16	11.420	1583	1591	1603	rBV	740922	1204594	76.23%	14.272%
17	11.518	1603	1607	1612	rBV2	10353	16025	1.01%	0.190%
18	11.633	1620	1626	1633	rVB	27524	48005	3.04%	0.569%
19	11.963	1674	1680	1686	rBV6	11275	27747	1.76%	0.329%
20	12.255	1722	1728	1733	rBV	44823	70149	4.44%	0.831%
21	12.408	1746	1753	1764	rBV	464480	743357	47.04%	8.808%
22	12.597	1777	1784	1790	rBV2	6229	16526	1.05%	0.196%
23	12.694	1795	1800	1804	rVV	48601	74614	4.72%	0.884%
24	12.901	1827	1834	1842	rVB3	28131	60204	3.81%	0.713%
25	13.157	1870	1876	1882	rBV6	13858	32945	2.08%	0.390%
26	13.292	1895	1898	1901	rBV4	12842	18613	1.18%	0.221%
27	13.346	1901	1907	1916	rVB	437101	663717	42.00%	7.864%
28	13.548	1936	1940	1944	rVB	22015	29169	1.85%	0.346%
29	13.596	1944	1948	1955	rVB2	15486	29558	1.87%	0.350%
30	13.731	1964	1970	1979	rVB4	16786	41728	2.64%	0.494%
31	13.822	1979	1985	1989	rBV7	9879	20984	1.33%	0.249%
32	13.889	1990	1996	2001	rBV2	73874	117626	7.44%	1.394%
33	13.950	2001	2006	2010	rVV5	11810	19831	1.25%	0.235%
34	13.999	2010	2014	2019	rVB2	19545	27868	1.76%	0.330%
35	14.188	2040	2045	2053	rBV9	10200	26106	1.65%	0.309%
36	14.322	2061	2067	2074	rVB2	48254	84337	5.34%	0.999%

Sample Results: **VY022466.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

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\82Y052725S.M
Title : SW846 8260

37	14.486	2089	2094	2098	rBV2	23096	38375	2.43%	0.455%
38	14.968	2168	2173	2179	rVB	55255	88770	5.62%	1.052%
39	15.072	2182	2190	2196	rBV4	11269	21487	1.36%	0.255%

Sum of corrected areas: 8439972

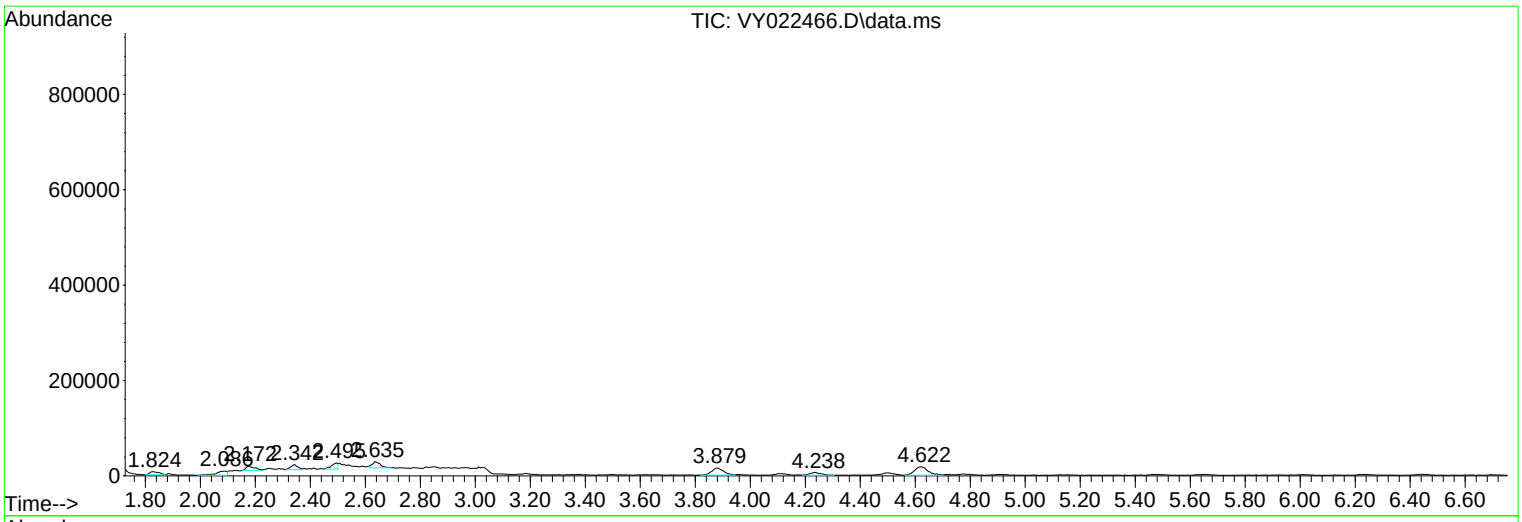
Sample Results: **VY022466.D**

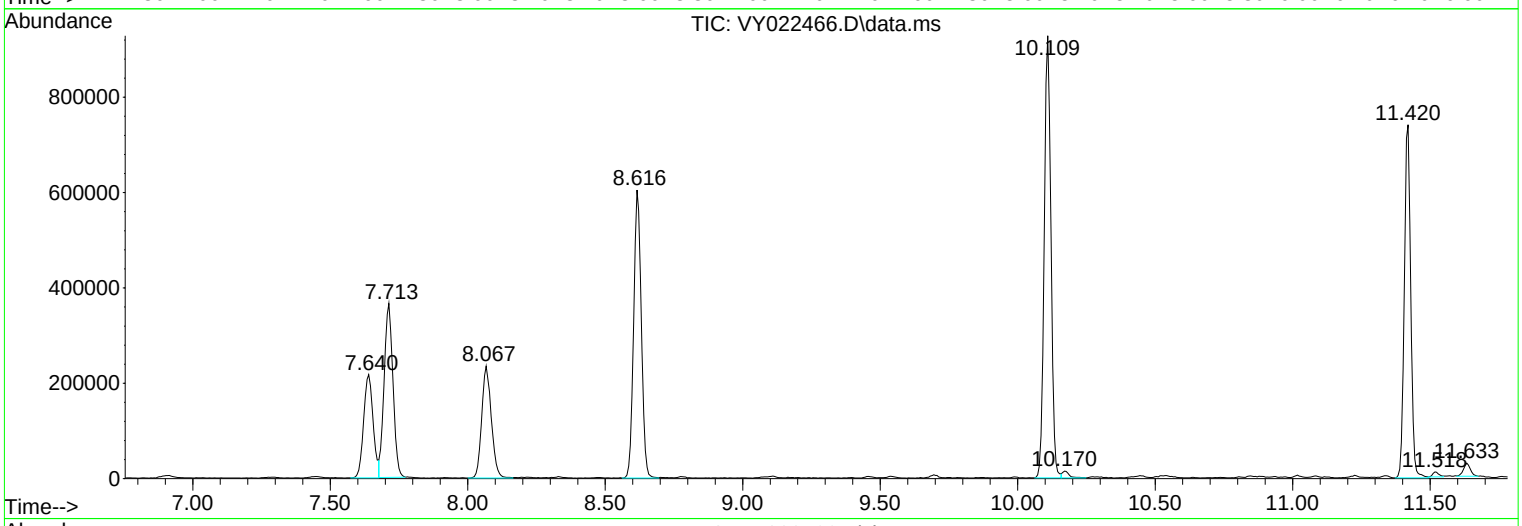
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

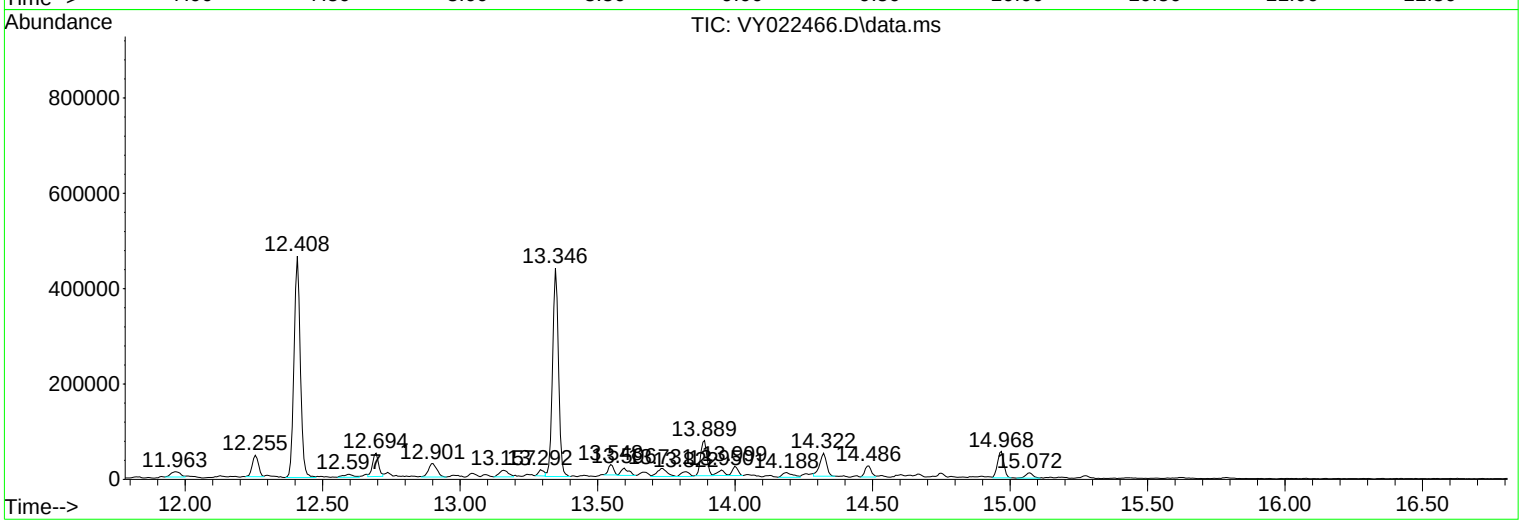
Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

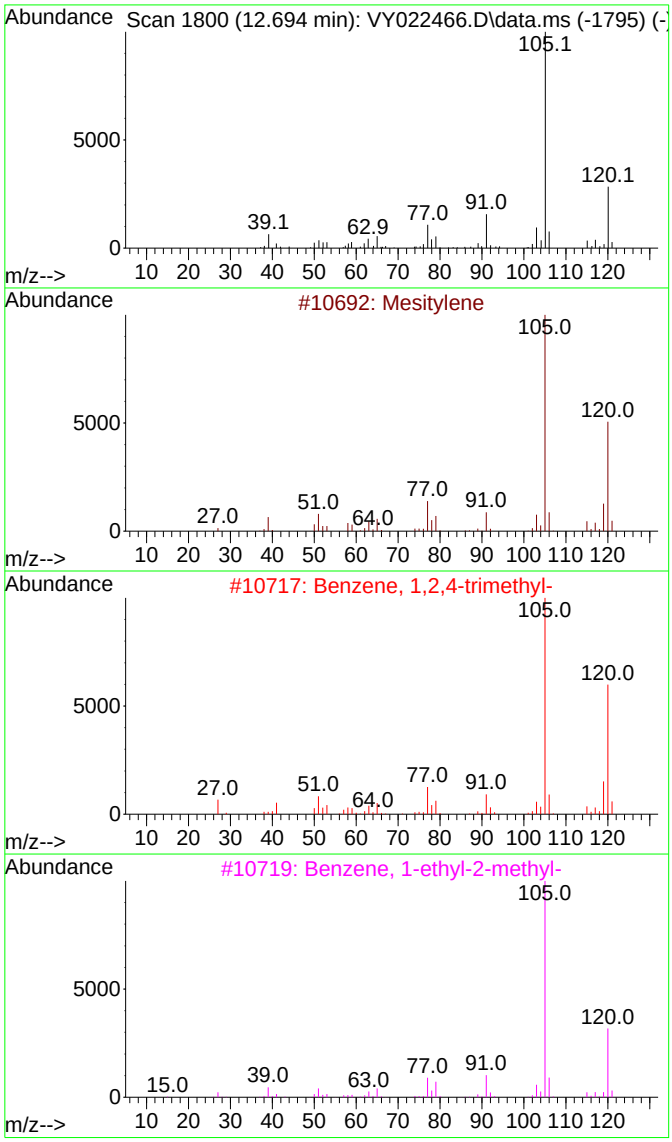
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

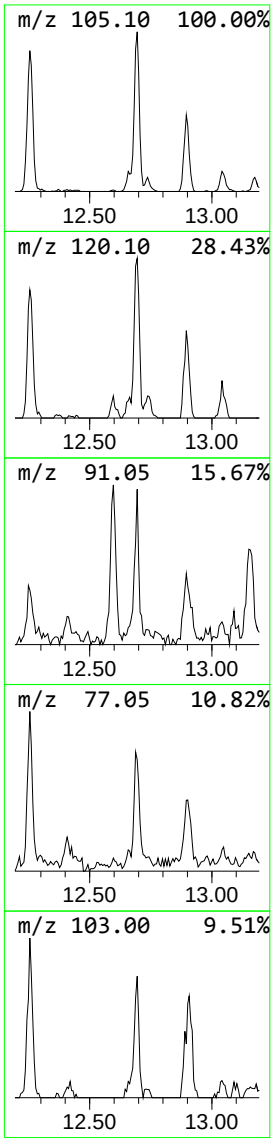
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.694	5.62 ug/l	74614	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Mesitylene	120	C9H12	000108-67-8	91
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

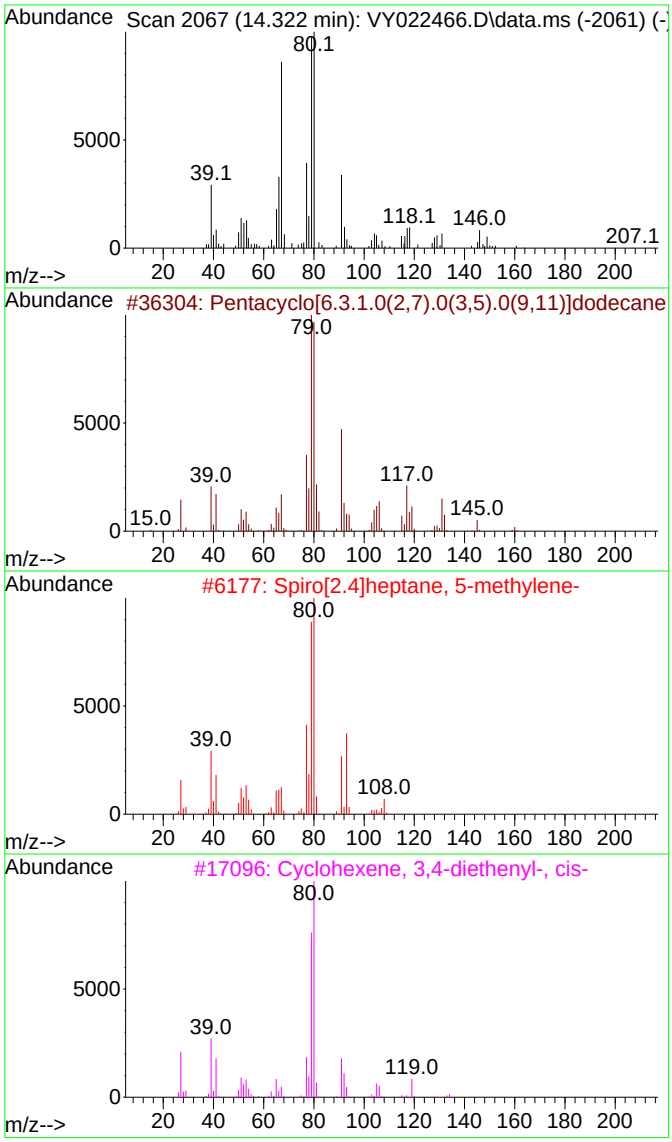
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

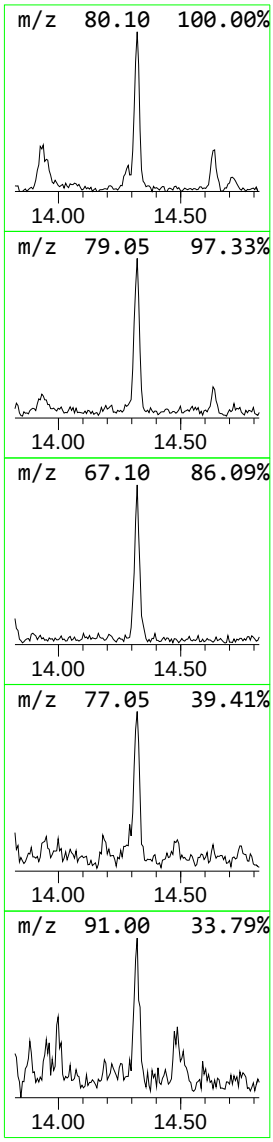
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Pentacyclo[6.3.1.0(2,7).0(3... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.322	6.35 ug/l	84337	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentacyclo[6.3.1.0(2,7).0(3,5).0...	160	C12H16	006049-82-7	70
2	Spiro[2.4]heptane, 5-methylene-	108	C8H12	037745-07-6	53
3	Cyclohexene, 3,4-diethenyl-, cis-	134	C10H14	061222-40-0	50
4	1,4-Cyclohexadiene	80	C6H8	000628-41-1	49
5	1-Hexen-3-yne	80	C6H8	013721-54-5	47





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

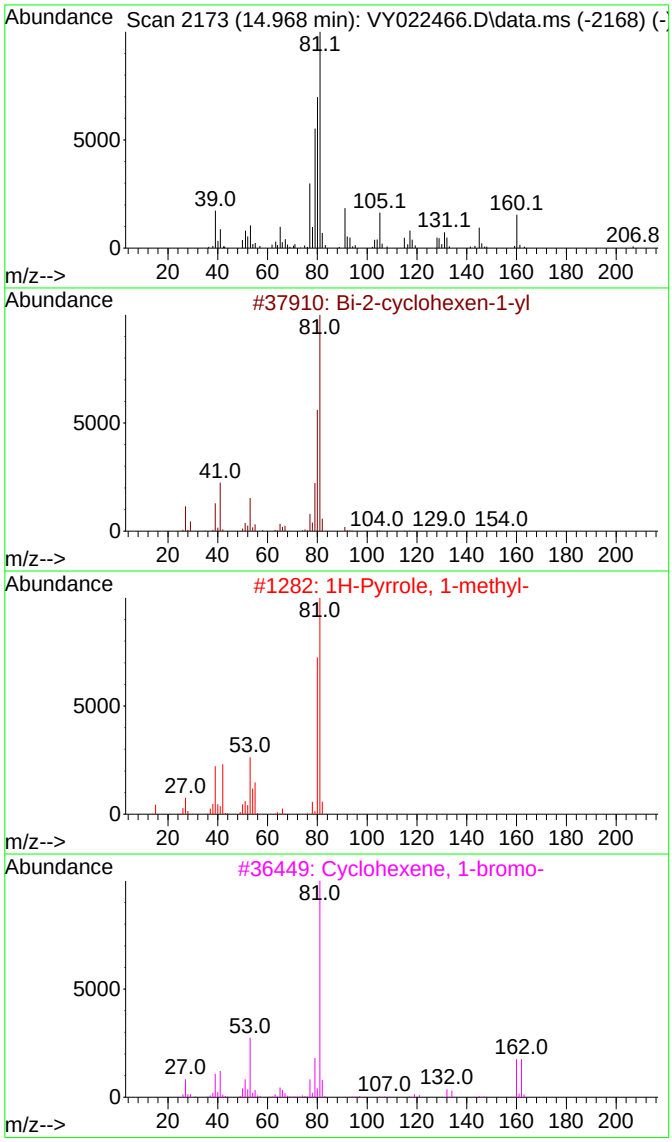
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

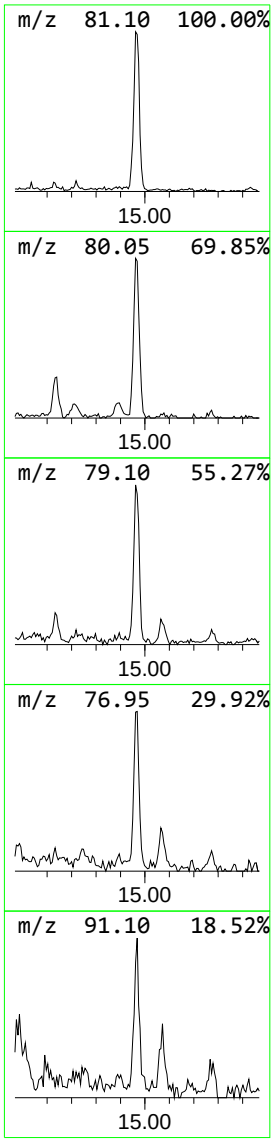
****

Peak Number 4 Bi-2-cyclohexen-1-yl Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.968	6.69 ug/l	88770	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bi-2-cyclohexen-1-yl	162	C12H18	001541-20-4	50
2	1H-Pyrrole, 1-methyl-	81	C5H7N	000096-54-8	43
3	Cyclohexene, 1-bromo-	160	C6H9Br	002044-08-8	38
4	Cyclobutane, 1,2-bis(1,3-butadie...	160	C12H16	080344-53-2	38
5	Pentacyclo[6.3.1.0(2,7).0(3,5).0...	160	C12H16	006049-82-7	35





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

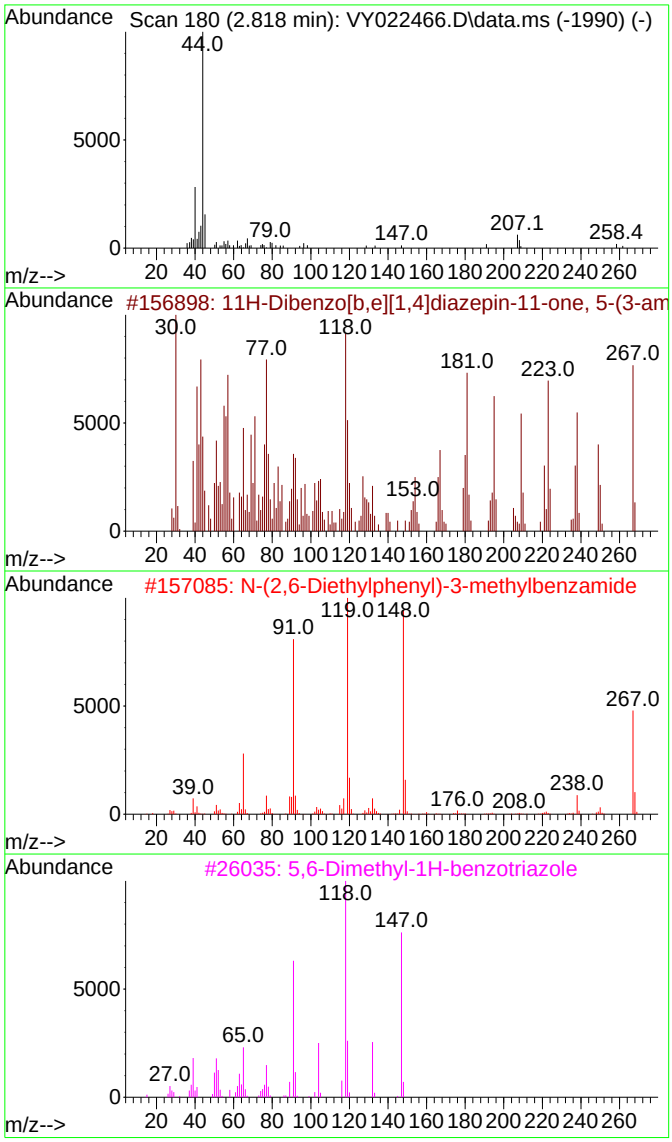
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

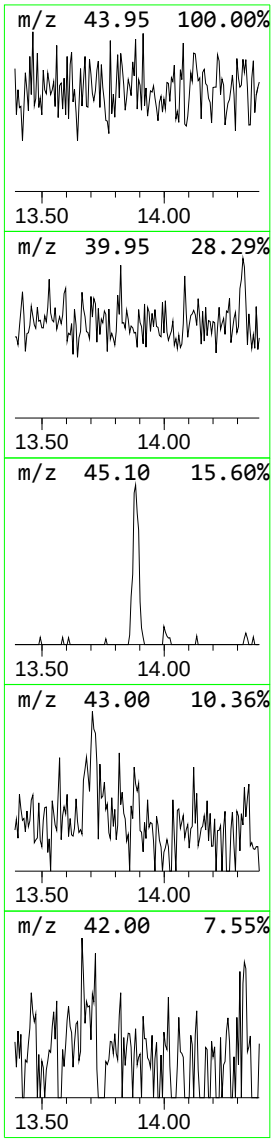
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	8.86 ug/l	117626	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	99
2	N-(2,6-Diethylphenyl)-3-methylbe...	267	C18H21NO	294851-82-4	27
3	5,6-Dimethyl-1H-benzotriazole	147	C8H9N3	004184-79-6	22
4	Benzamide, 4-methyl-N-[3-(4-hydr...	373	C22H19N3O3	1000295-49-3	14
5	Ethandial, bis(phenylhydrazone)	238	C14H14N4	001534-21-0	12





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

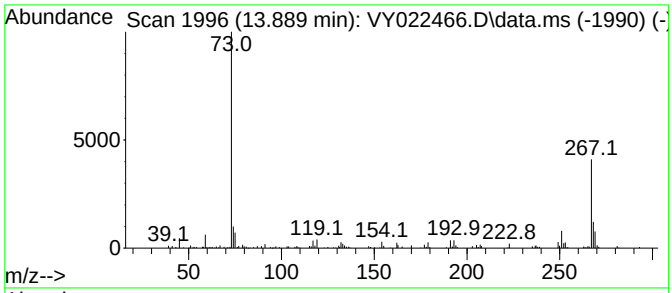
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

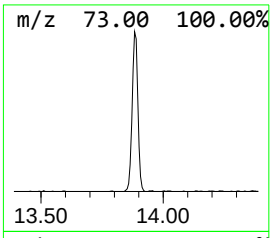
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

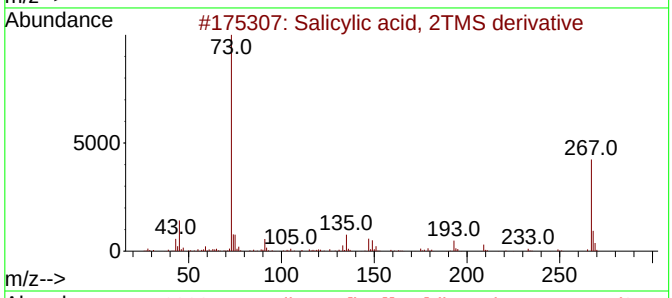
****
Peak Number 6 Salicylic acid, 2TMS deriva... Concentration Rank 6

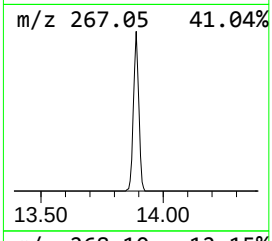
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	8.86 ug/l	117626	1,4-Dichlorobenzene-d4	13.346

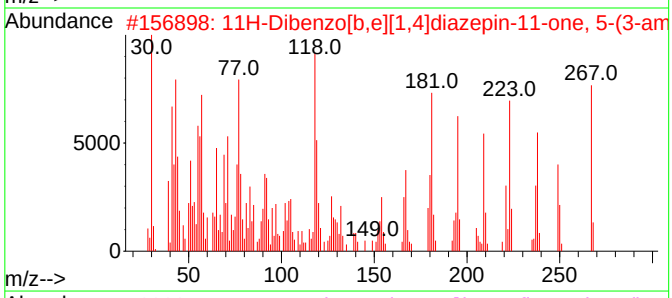
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	64
2	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	60
3	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	50
4	Acridone, TMS derivative	267	C16H17NOSi	1000478-16-0	45
5	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	45

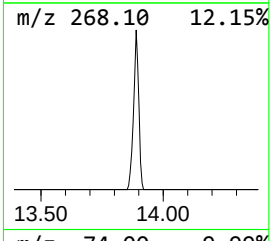


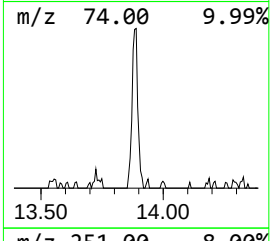


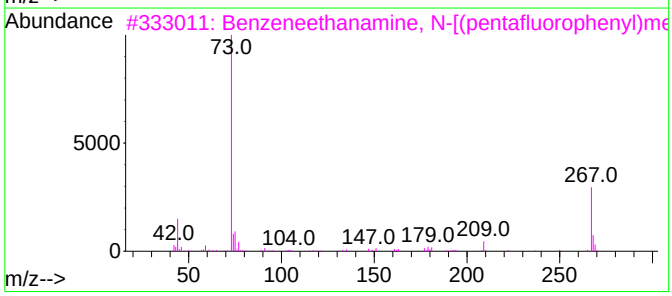


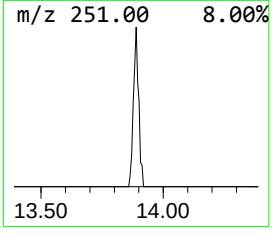












Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022466.D
Acq On : 29 May 2025 14:46
Operator : SY/MD
Sample : Q2150-07
Misc : 7.53g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-51

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Benzene, 1-ethy...	12.694	5.6	ug/l	74614	4	13.346	663717	50.0
Pentacyclo[6.3....	14.322	6.3	ug/l	84337	4	13.346	663717	50.0
Bi-2-cyclohexen...	14.968	6.7	ug/l	88770	4	13.346	663717	50.0
11H-Dibenzo[b,e...	13.889	8.9	ug/l	117626	4	13.346	663717	50.0
Salicylic acid,...	13.889	8.9	ug/l	117626	4	13.346	663717	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022467.D
Acq On : 29 May 2025 15:09
Operator : SY/MD
Sample : Q2150-08
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-52

Quant Time: May 30 05:35:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	286667	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	522350	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	404746	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	132959	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	156210	51.734	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.460%			
35) Dibromofluoromethane	7.640	113	156902	51.291	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.580%			
50) Toluene-d8	10.109	98	623120	49.968	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.940%			
62) 4-Bromofluorobenzene	12.407	95	146524	38.844	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 77.680%			

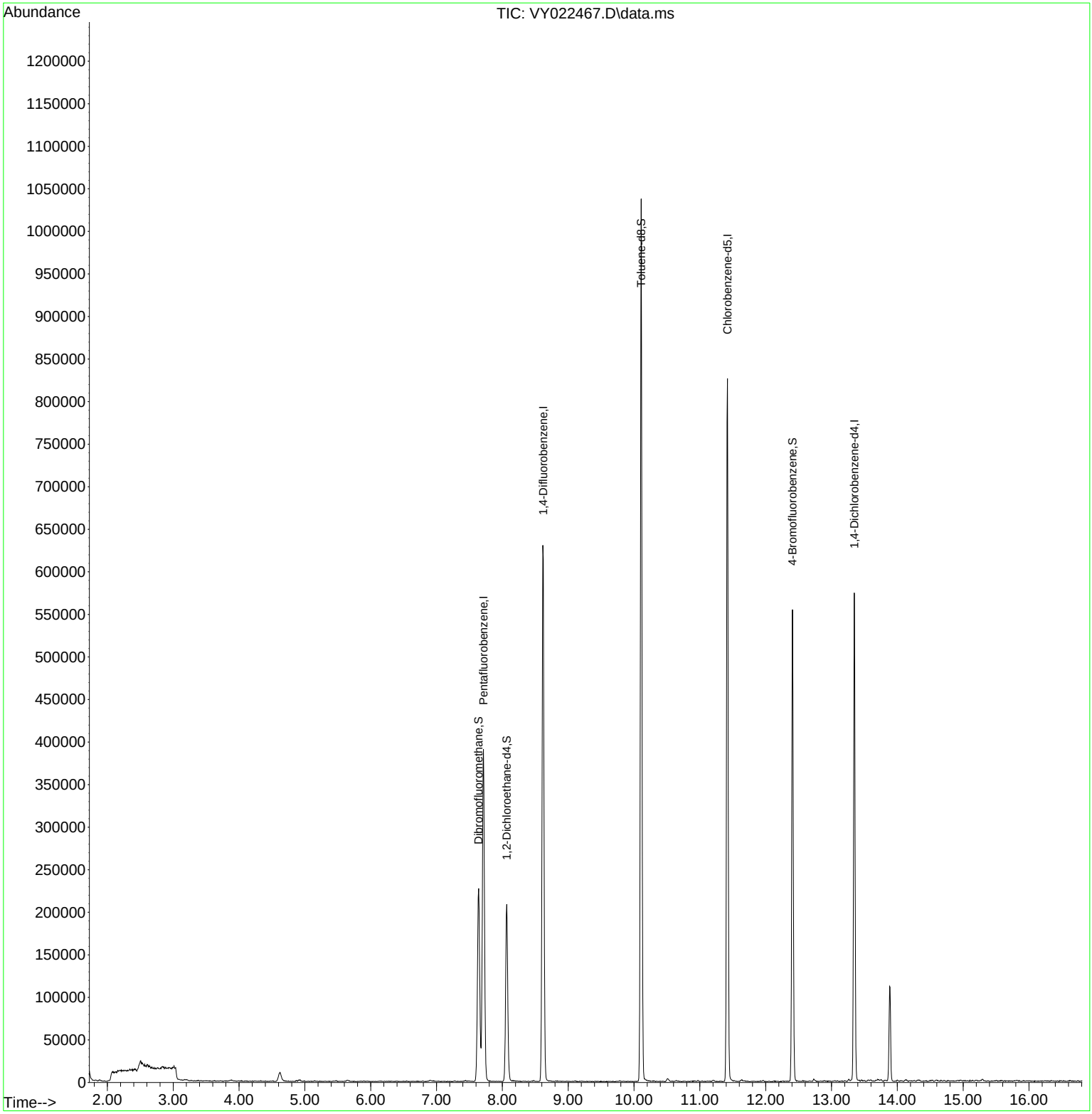
Target Compounds Qvalue

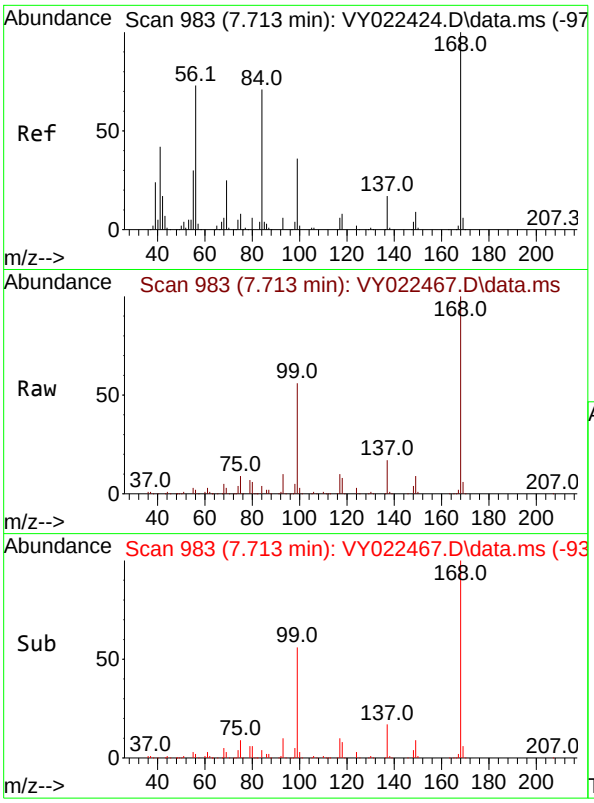
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022467.D
Acq On : 29 May 2025 15:09
Operator : SY/MD
Sample : Q2150-08
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-52

Quant Time: May 30 05:35:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



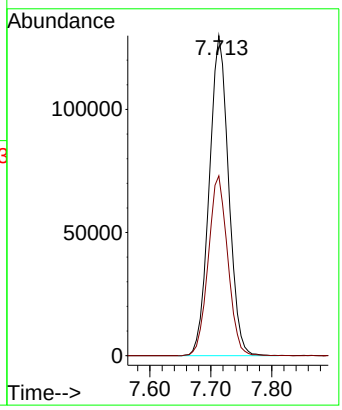


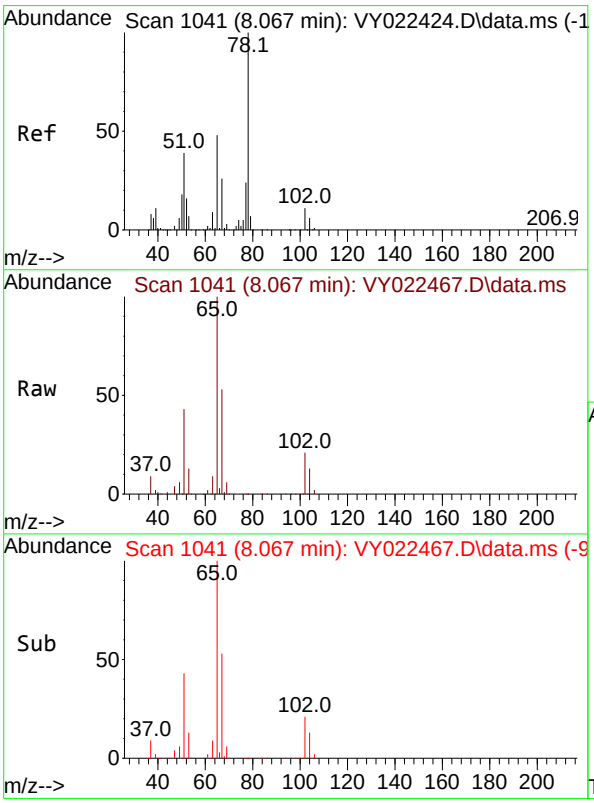
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022467.D
Acq: 29 May 2025 15:09

Instrument :
MSVOA_Y
ClientSampleId :
TP-52

Tgt Ion:168 Resp: 286667

Ion	Ratio	Lower	Upper
168	100		
99	56.2	44.7	67.1

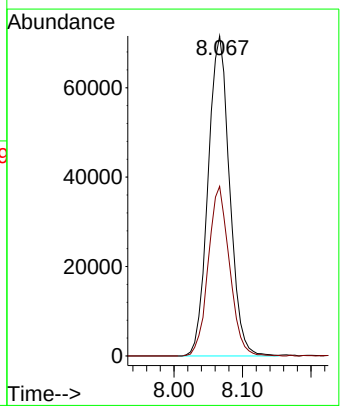


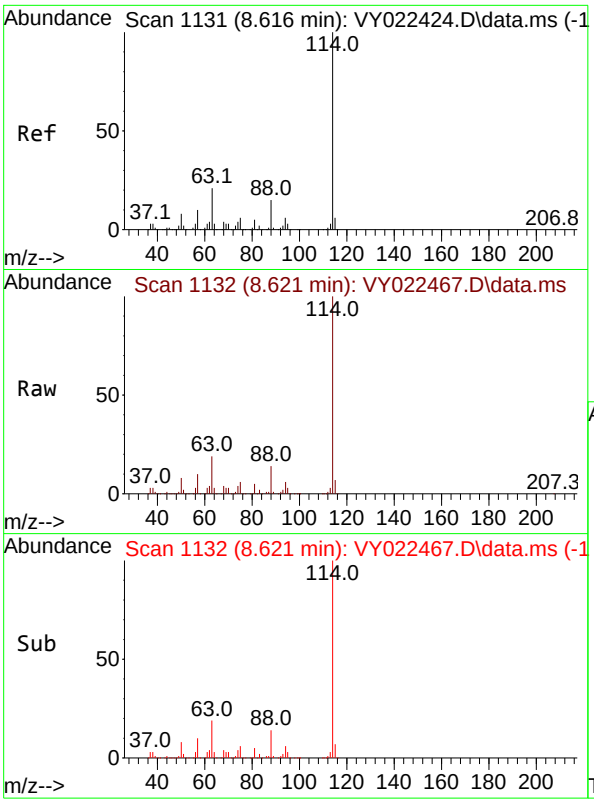


#33
1,2-Dichloroethane-d4
Concen: 51.734 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022467.D
Acq: 29 May 2025 15:09

Tgt Ion: 65 Resp: 156210

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	104.4



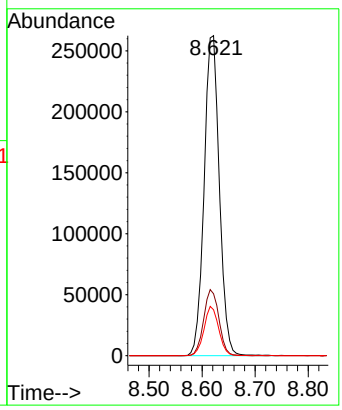


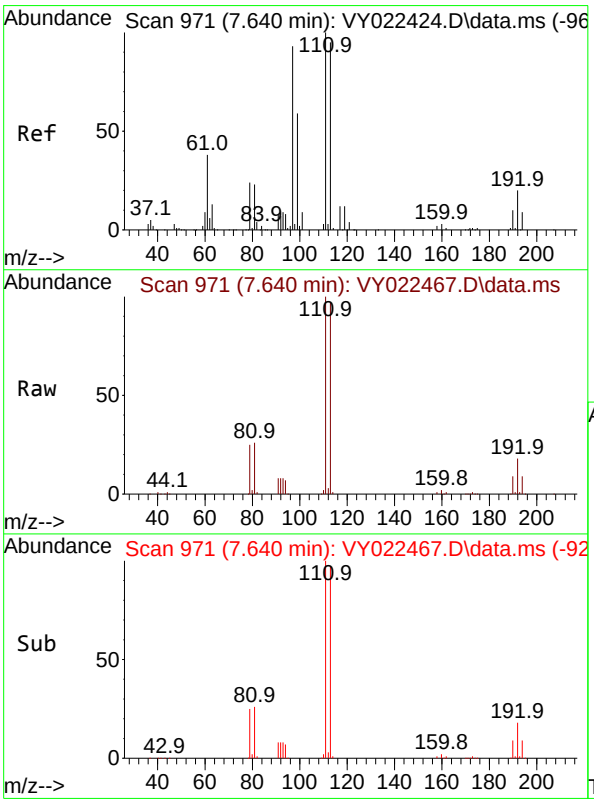
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022467.D
Acq: 29 May 2025 15:09

Instrument :
MSVOA_Y
ClientSampleId :
TP-52

Tgt Ion:114 Resp: 522350

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	42.6
88	14.3	0.0	29.4

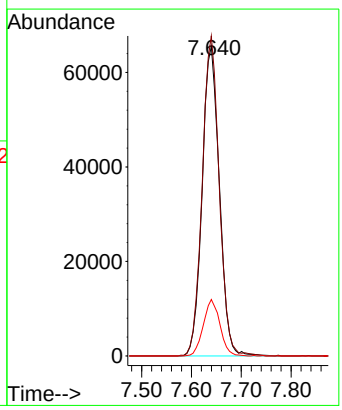


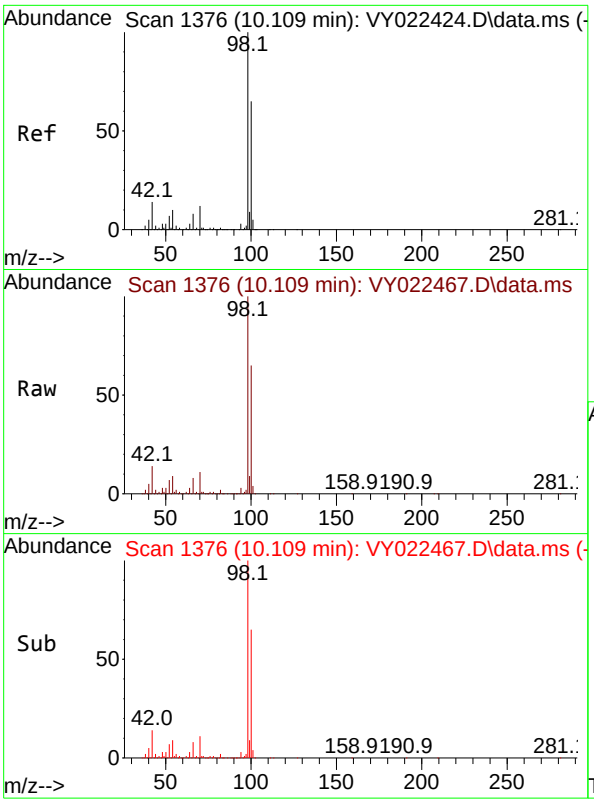


#35
Dibromofluoromethane
Concen: 51.291 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY022467.D
Acq: 29 May 2025 15:09

Tgt Ion:113 Resp: 156902

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	17.6	15.2	22.8



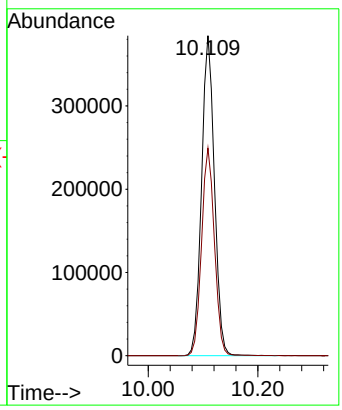


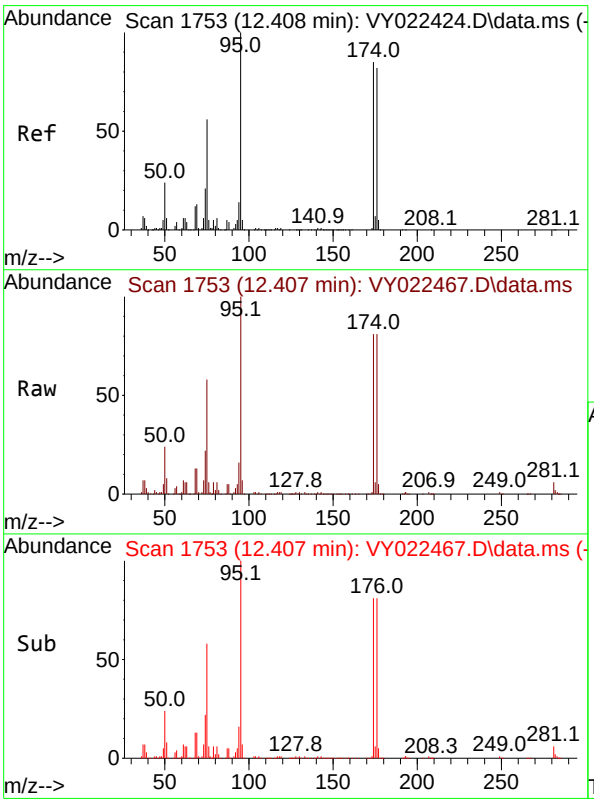
#50
Toluene-d8
Concen: 49.968 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022467.D
Acq: 29 May 2025 15:09

Instrument :
MSVOA_Y
ClientSampleId :
TP-52

Tgt Ion: 98 Resp: 623120

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.2	78.2

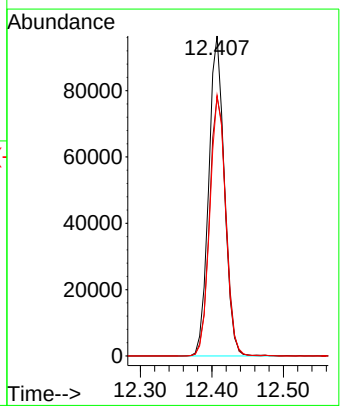


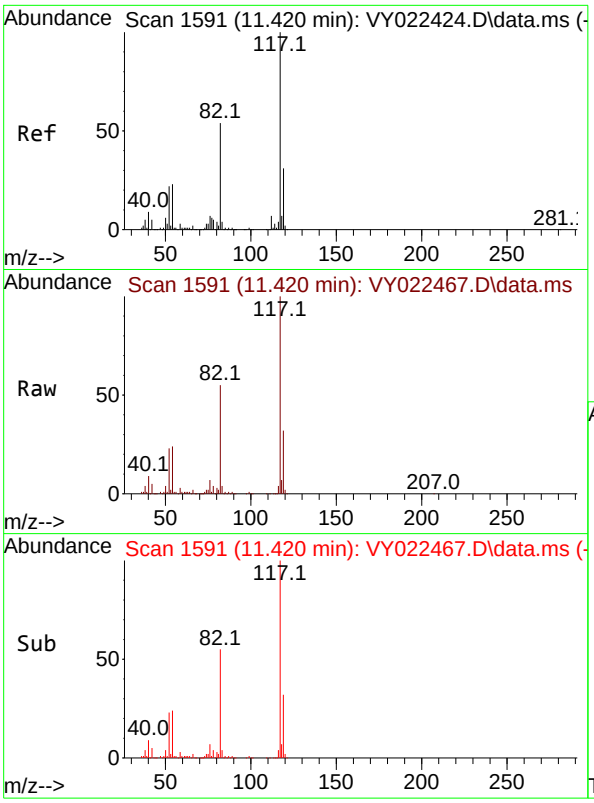


#62
4-Bromofluorobenzene
Concen: 38.844 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022467.D
Acq: 29 May 2025 15:09

Tgt Ion: 95 Resp: 146524

Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	171.6
176	82.3	0.0	164.6



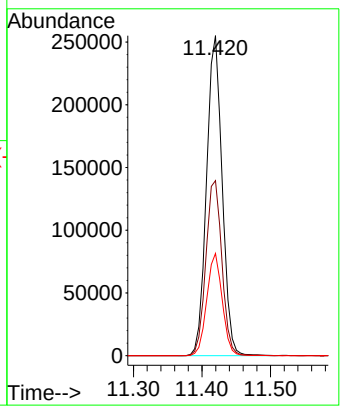


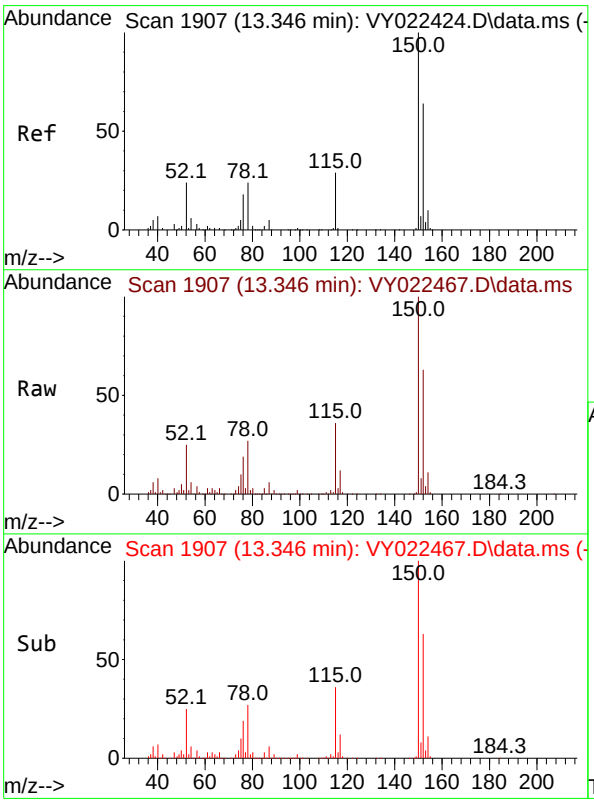
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022467.D
Acq: 29 May 2025 15:09

Instrument :
MSVOA_Y
ClientSampleId :
TP-52

Tgt Ion:117 Resp: 404746

Ion	Ratio	Lower	Upper
117	100		
82	54.7	43.3	64.9
119	32.0	24.5	36.7

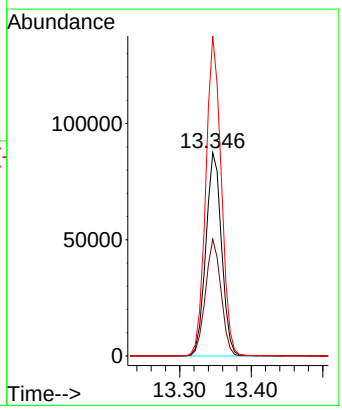




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022467.D
Acq: 29 May 2025 15:09

Tgt Ion:152 Resp: 132959

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.4	85.3
150	155.0	0.0	345.8



Sample Results: **VY022467.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022467.D
Acq On : 29 May 2025 15:09
Operator : SY/MD
Sample : Q2150-08
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-52

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\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022467.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	46	58	59	rBV2	11033	21503	1.26%	0.263%
2	4.622	465	476	486	rBV4	10590	33239	1.95%	0.407%
3	7.640	958	971	977	rBV	226698	546515	32.03%	6.686%
4	7.713	977	983	997	rVB	390217	871902	51.10%	10.667%
5	8.067	1031	1041	1054	rBV	208308	464371	27.22%	5.681%
6	8.615	1123	1131	1146	rVB	629580	1246939	73.09%	15.255%
7	10.109	1368	1376	1393	rBV	1037017	1706125	100.00%	20.873%
8	11.420	1582	1591	1603	rBV	825993	1336911	78.36%	16.356%
9	12.407	1746	1753	1763	rVB2	554249	888237	52.06%	10.867%
10	13.346	1897	1907	1917	rBV	573216	872436	51.14%	10.673%
11	13.883	1988	1995	2006	rVB2	111580	185841	10.89%	2.274%

Sum of corrected areas: 8174019

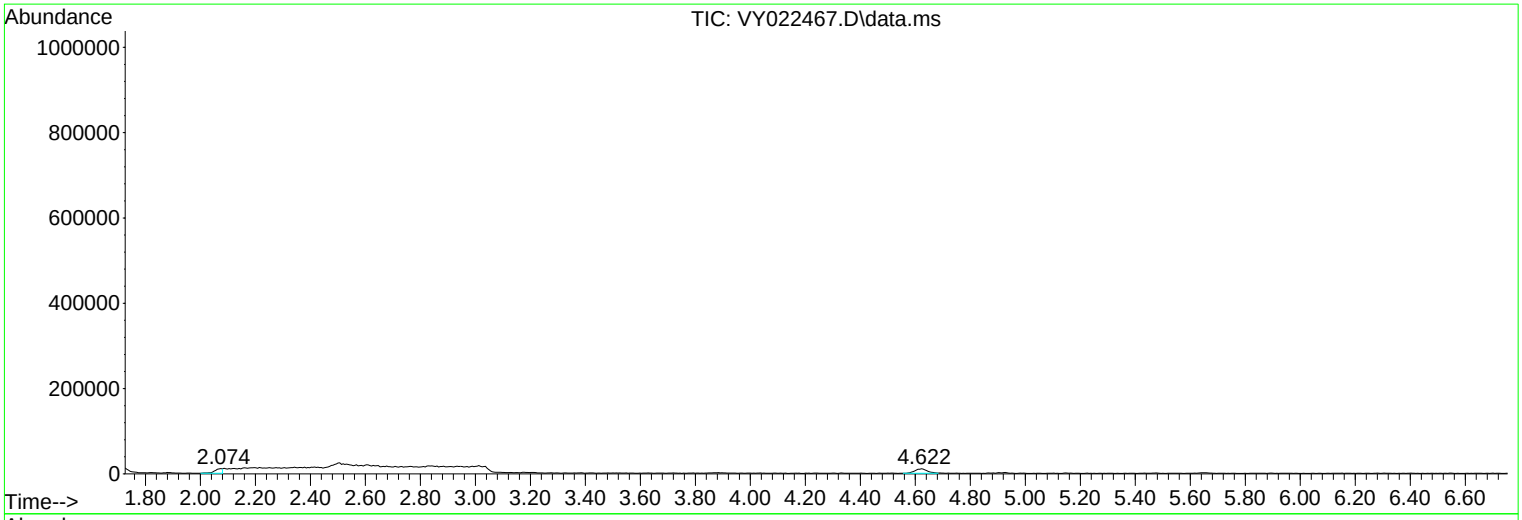
Sample Results: **VY022467.D**

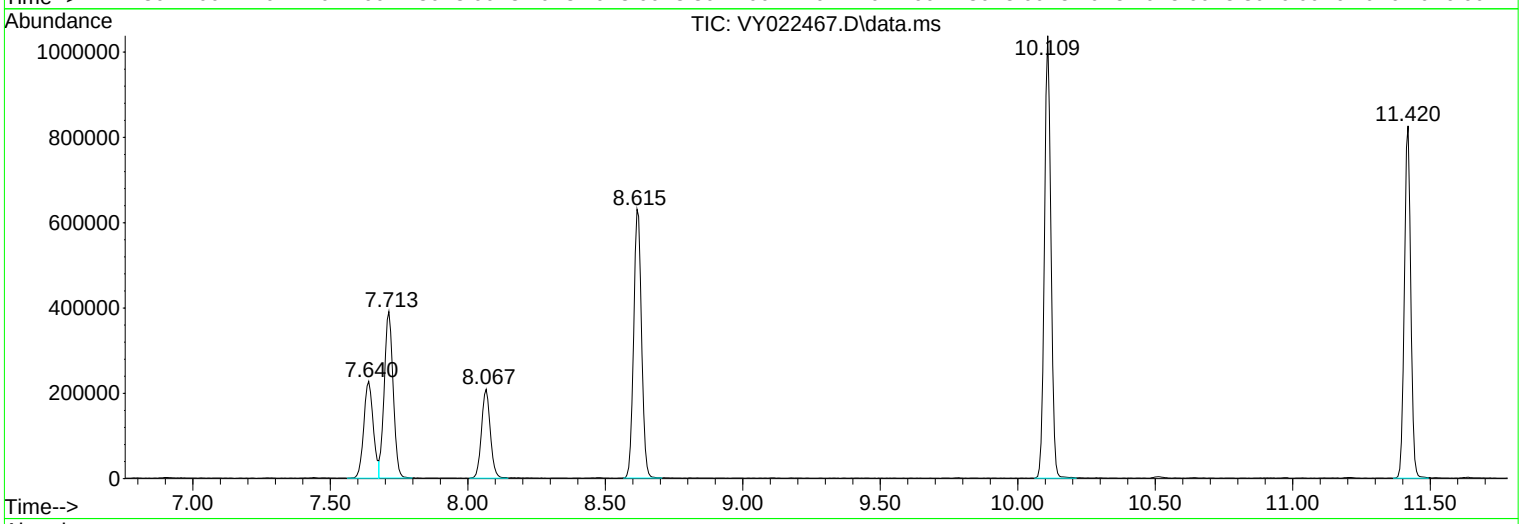
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022467.D
Acq On : 29 May 2025 15:09
Operator : SY/MD
Sample : Q2150-08
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

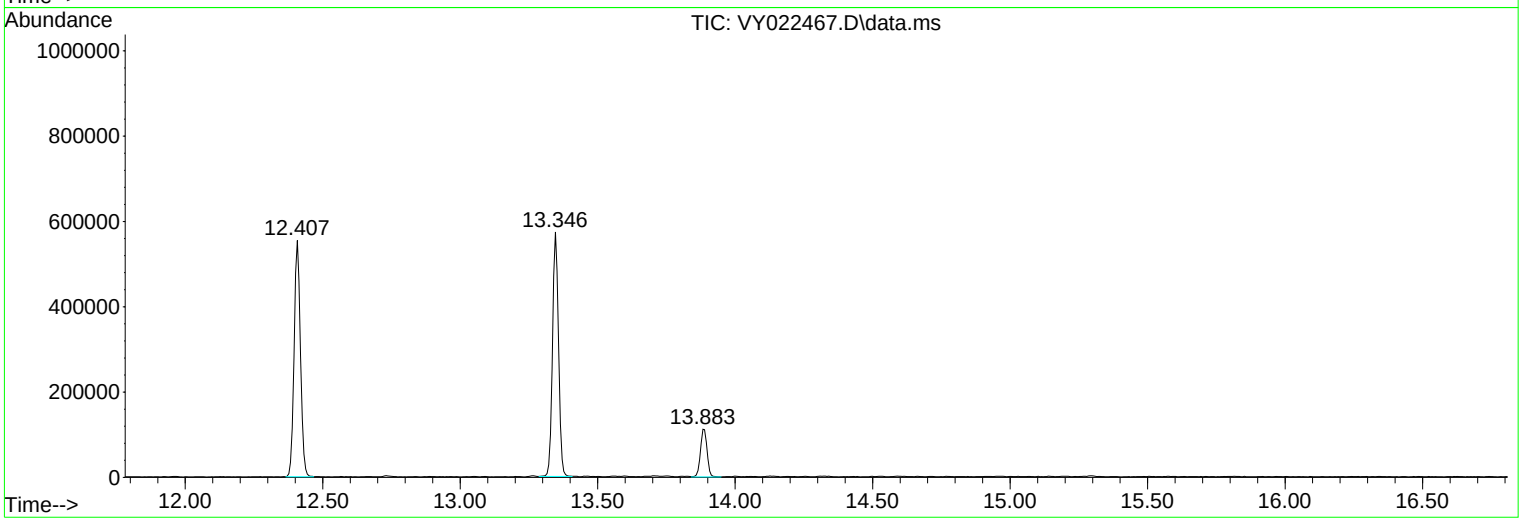
Instrument :
MSVOA_Y
ClientSampleId :
TP-52

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022467.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022467.D
Acq On : 29 May 2025 15:09
Operator : SY/MD
Sample : Q2150-08
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-52

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022467.D
Acq On : 29 May 2025 15:09
Operator : SY/MD
Sample : Q2150-08
Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-52

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022468.D
Acq On : 29 May 2025 15:33
Operator : SY/MD
Sample : Q2150-09
Misc : 7.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

Quant Time: May 30 05:36:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

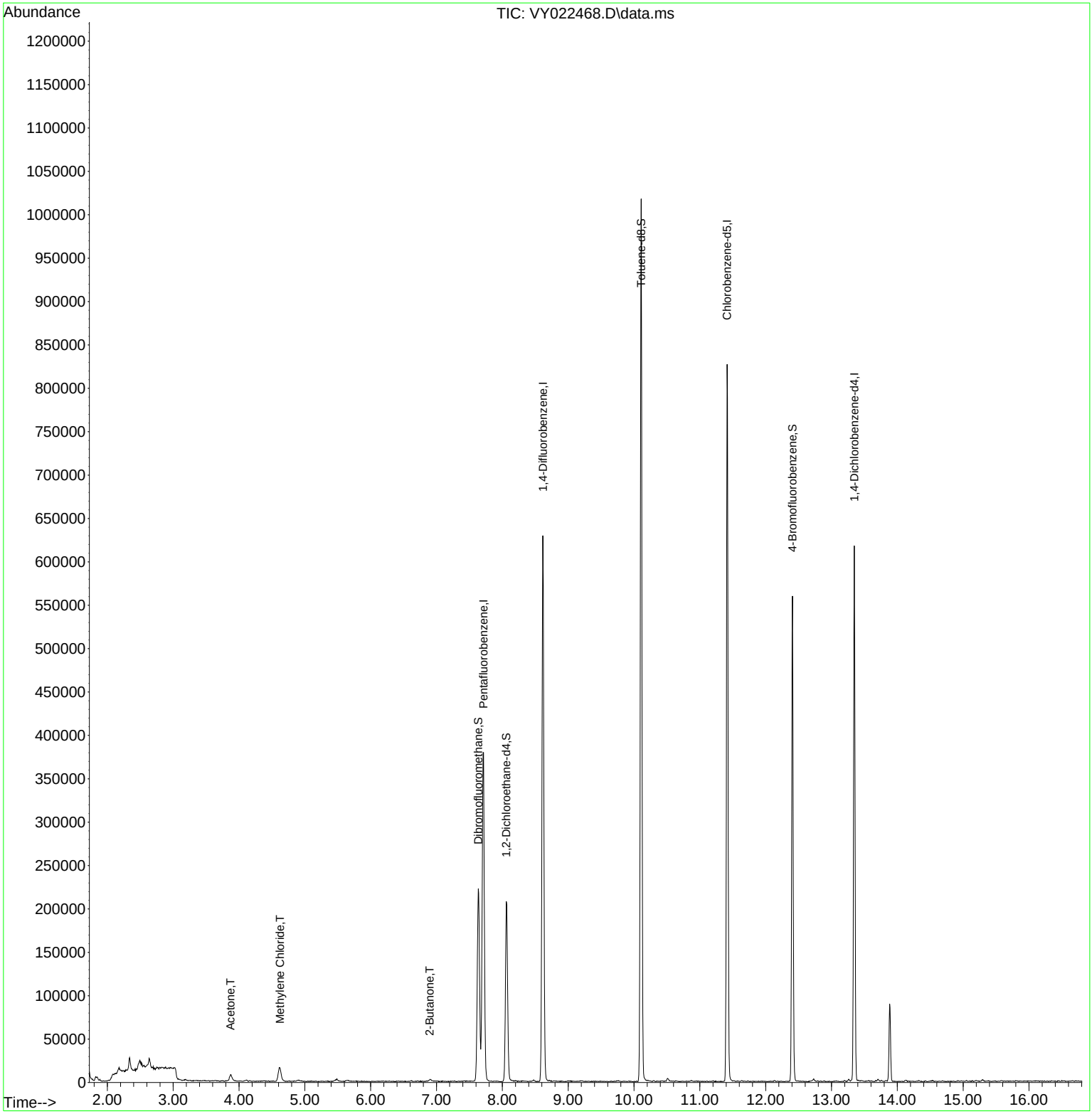
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	283443	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	517546	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	406523	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	140553	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	156979	52.580	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.160%			
35) Dibromofluoromethane	7.634	113	153619	50.684	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.360%			
50) Toluene-d8	10.109	98	623100	50.430	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.860%			
62) 4-Bromofluorobenzene	12.408	95	148270	39.672	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 79.340%			
Target Compounds						Qvalue
16) Acetone	3.873	43	14067	28.673	ug/l	93
20) Methylene Chloride	4.623	84	11504	3.321	ug/l	97
25) 2-Butanone	6.897	43	3275	4.008	ug/l	99

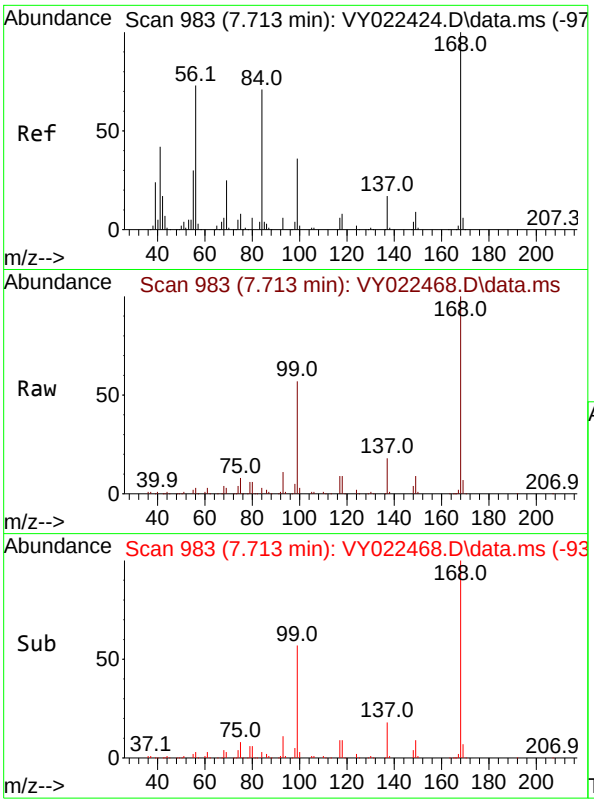
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022468.D
Acq On : 29 May 2025 15:33
Operator : SY/MD
Sample : Q2150-09
Misc : 7.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

Quant Time: May 30 05:36:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



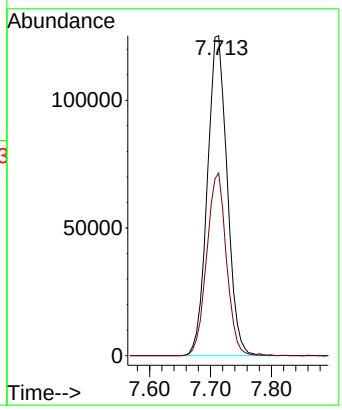


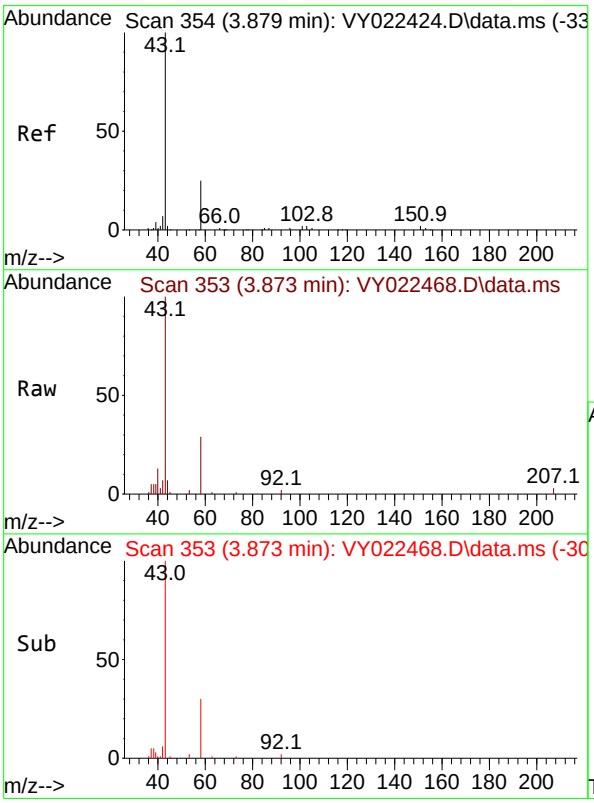
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

Tgt Ion:168 Resp: 283443

Ion	Ratio	Lower	Upper
168	100		
99	57.1	44.7	67.1

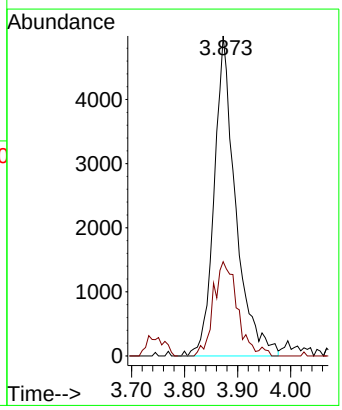


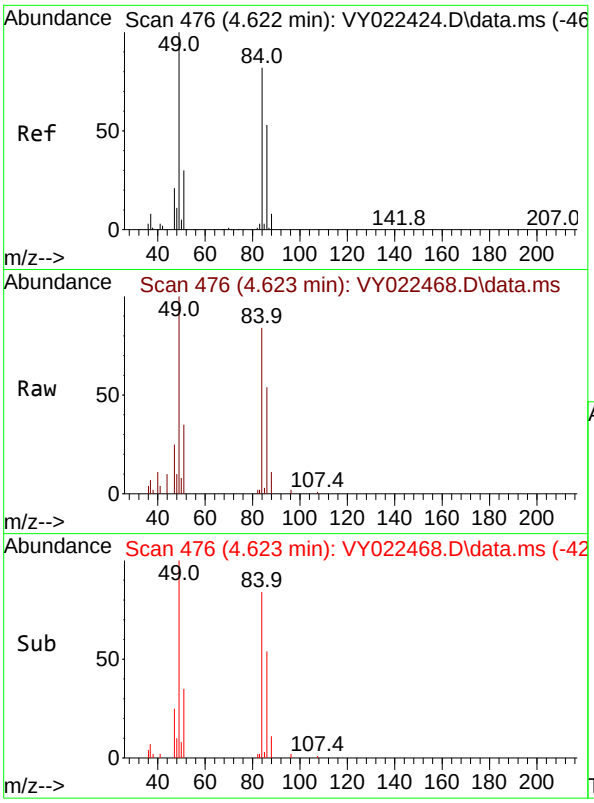


#16
Acetone
Concen: 28.673 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Tgt Ion: 43 Resp: 14067

Ion	Ratio	Lower	Upper
43	100		
58	29.4	20.6	30.8



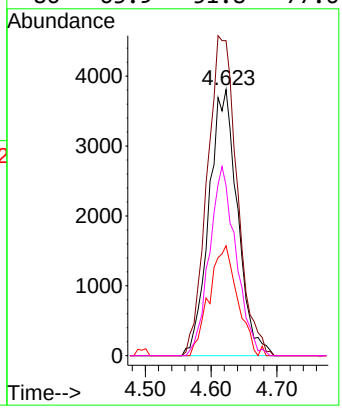


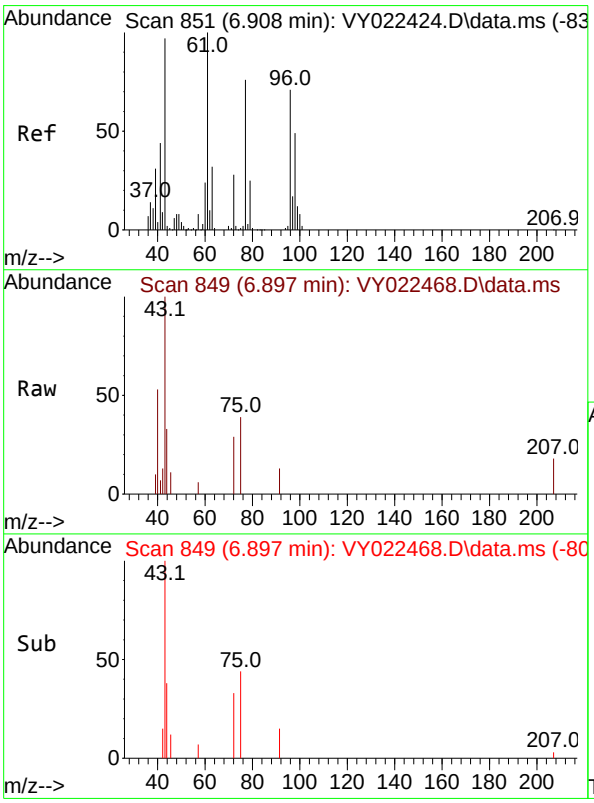
#20
Methylene Chloride
Concen: 3.321 ug/l
RT: 4.623 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

Tgt Ion: 84 Resp: 11504

Ion	Ratio	Lower	Upper
84	100		
49	118.4	97.8	146.8
51	41.3	29.5	44.3
86	63.9	51.8	77.6

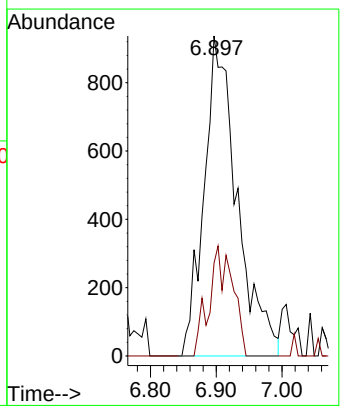


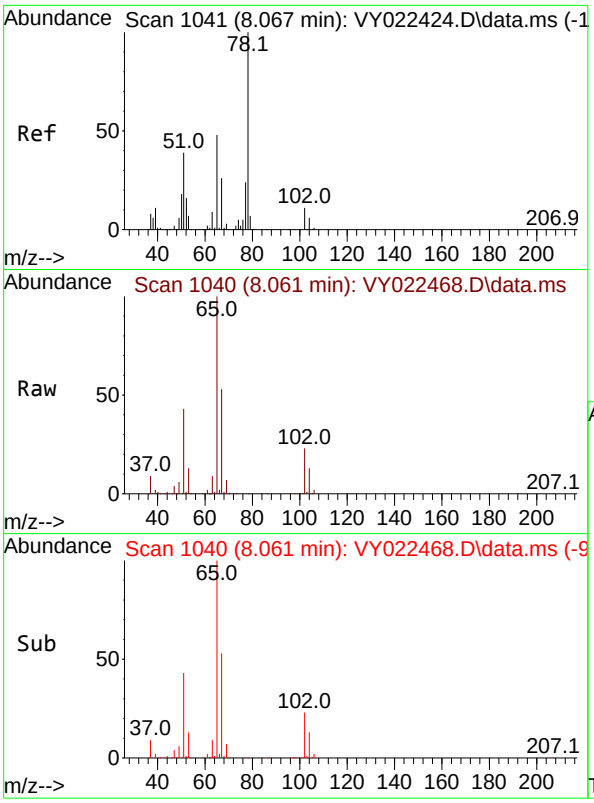


#25
2-Butanone
Concen: 4.008 ug/l
RT: 6.897 min Scan# 849
Delta R.T. -0.012 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Tgt Ion: 43 Resp: 3275

Ion	Ratio	Lower	Upper
43	100		
72	29.0	22.8	34.2



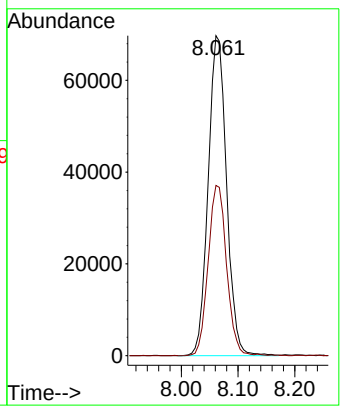


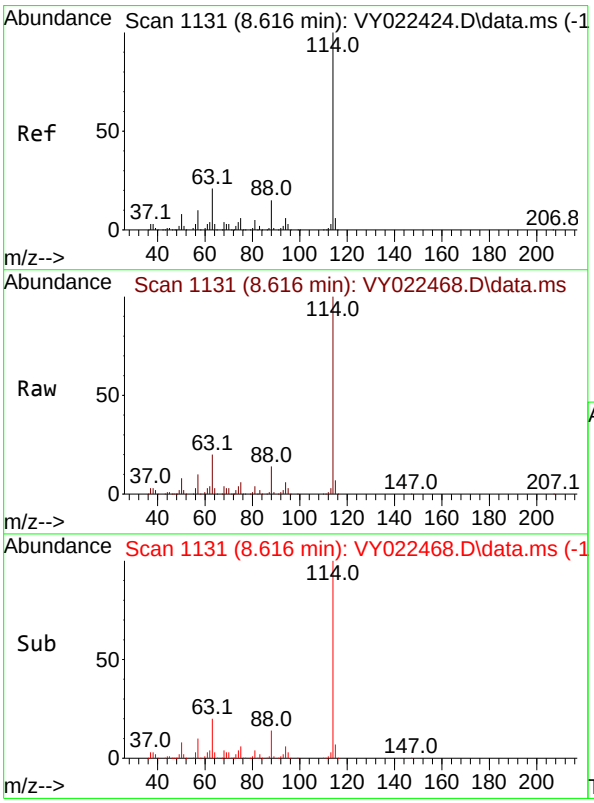
#33
1,2-Dichloroethane-d4
Concen: 52.580 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

Tgt Ion: 65 Resp: 156979

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	104.4

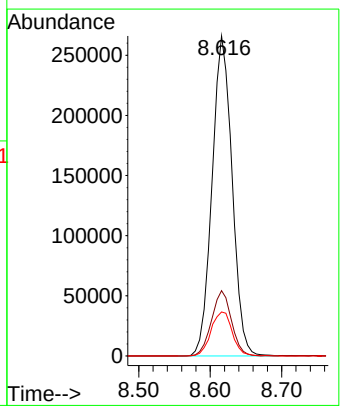


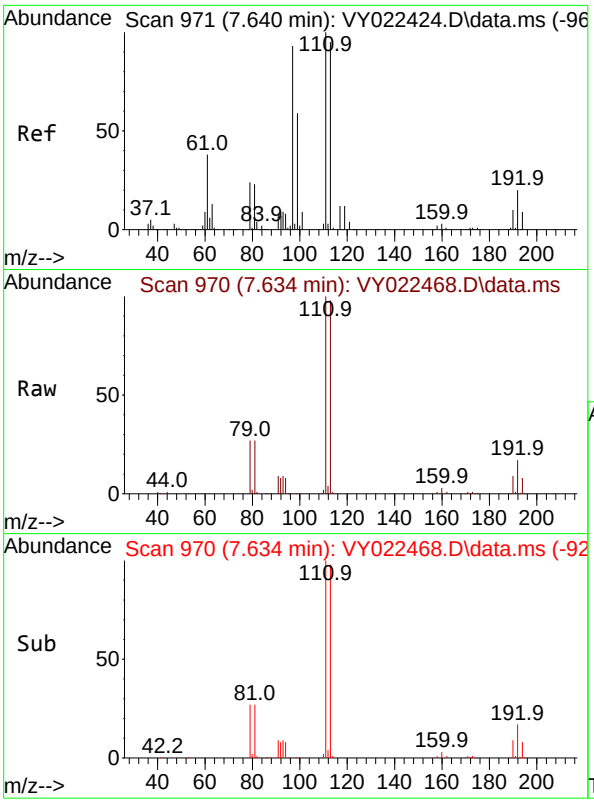


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Tgt Ion:114 Resp: 517546

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.6
88	13.8	0.0	29.4



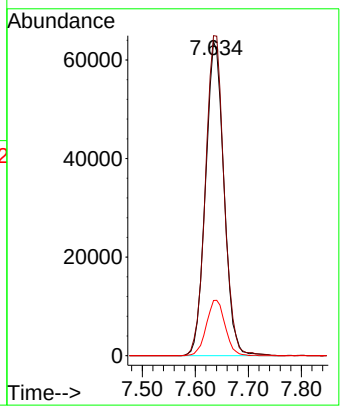


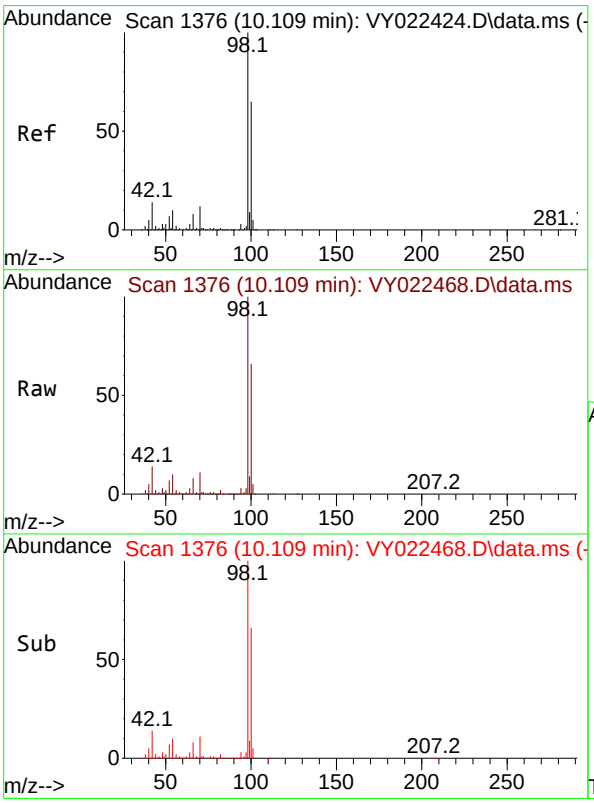
#35
Dibromofluoromethane
Concen: 50.684 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

Tgt Ion:113 Resp: 153619

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.4	123.6
192	18.0	15.2	22.8

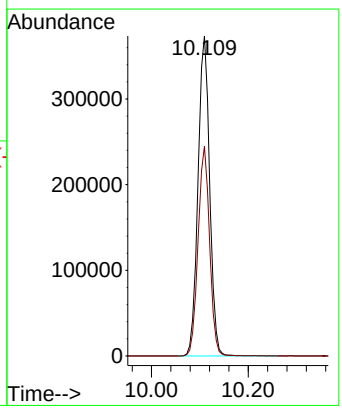


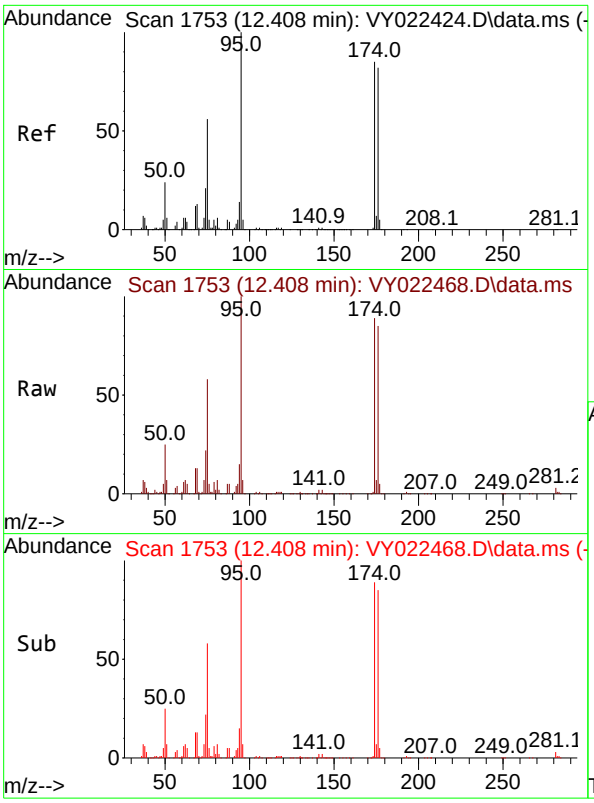


#50
Toluene-d8
Concen: 50.430 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Tgt Ion: 98 Resp: 623100

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2



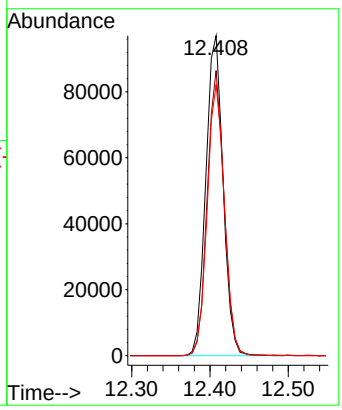


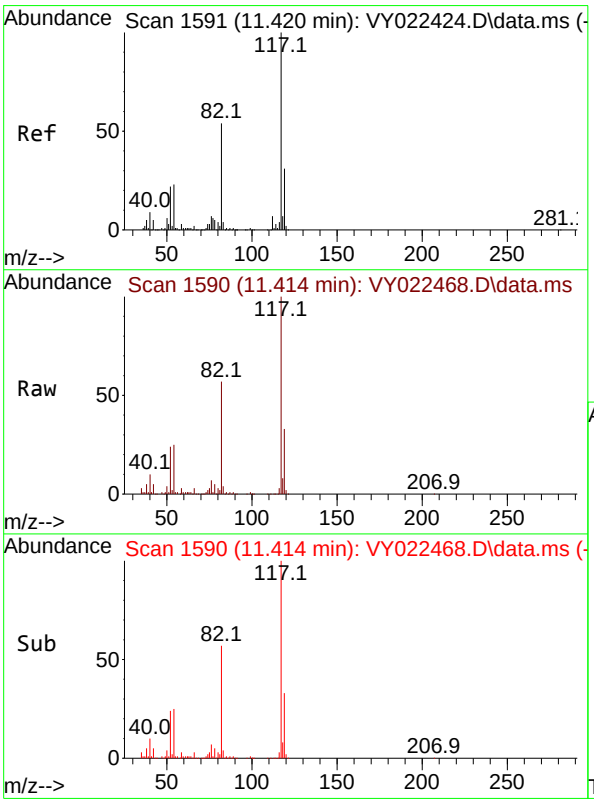
#62
4-Bromofluorobenzene
Concen: 39.672 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

Tgt Ion: 95 Resp: 148270

Ion	Ratio	Lower	Upper
95	100		
174	86.9	0.0	171.6
176	84.8	0.0	164.6

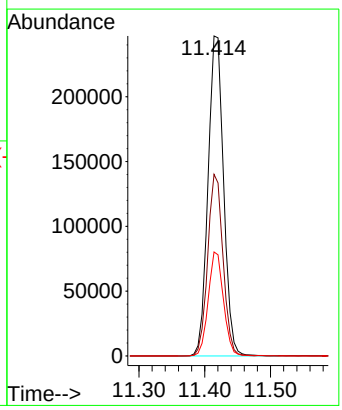


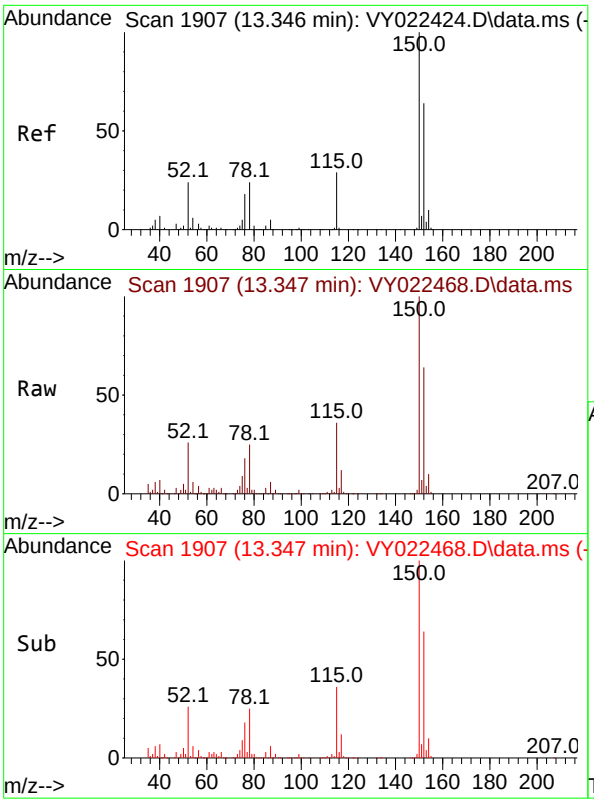


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Tgt Ion:117 Resp: 406523

Ion	Ratio	Lower	Upper
117	100		
82	56.8	43.3	64.9
119	32.5	24.5	36.7



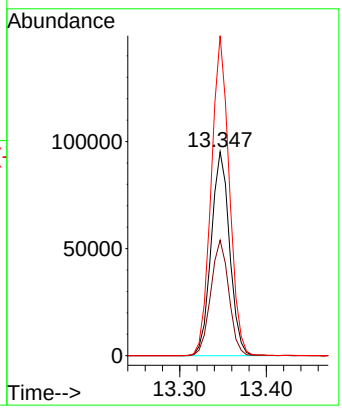


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022468.D
Acq: 29 May 2025 15:33

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

Tgt Ion:152 Resp: 140553

Ion	Ratio	Lower	Upper
152	100		
115	55.7	28.4	85.3
150	153.6	0.0	345.8



Sample Results: **VY022468.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022468.D
Acq On : 29 May 2025 15:33
Operator : SY/MD
Sample : Q2150-09
Misc : 7.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

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\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022468.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	rBV3	7346	17459	1.02%	0.212%
2	2.336	97	101	109	rVB2	14411	25455	1.49%	0.309%
3	2.495	120	127	128	rBV4	10455	20234	1.19%	0.246%
4	2.635	147	150	156	rVB2	10959	18554	1.09%	0.225%
5	3.873	344	353	363	rBV	7450	20378	1.20%	0.247%
6	4.616	466	475	488	rBV2	15927	50447	2.96%	0.612%
7	7.634	960	970	976	rBV	221579	530494	31.13%	6.437%
8	7.707	976	982	1000	rVB	378910	876096	51.40%	10.631%
9	8.061	1029	1040	1057	rBV	207453	467480	27.43%	5.672%
10	8.616	1123	1131	1144	rBV	628700	1239953	72.75%	15.046%
11	10.109	1368	1376	1387	rBV	1017394	1704325	100.00%	20.680%
12	11.414	1583	1590	1603	rBV	826057	1335774	78.38%	16.208%
13	12.408	1746	1753	1764	rBV	559215	874702	51.32%	10.614%
14	13.347	1897	1907	1916	rBV	617014	915773	53.73%	11.112%
15	13.883	1989	1995	2002	rVB2	89060	144169	8.46%	1.749%

Sum of corrected areas: 8241293

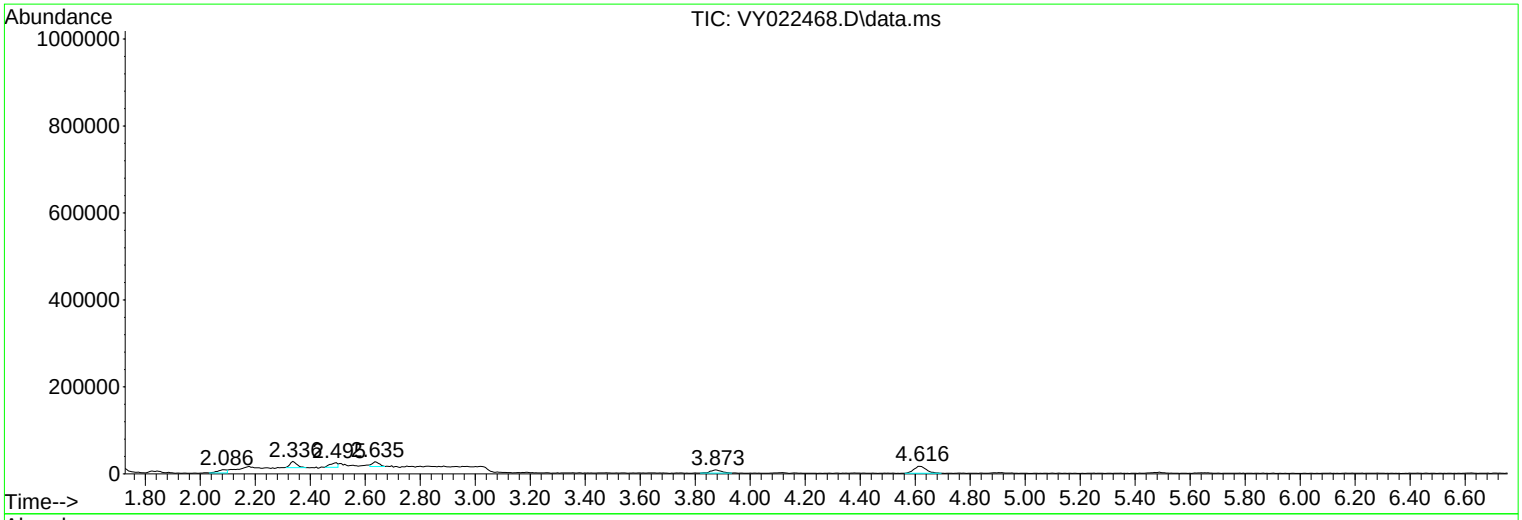
Sample Results: **VY022468.D**

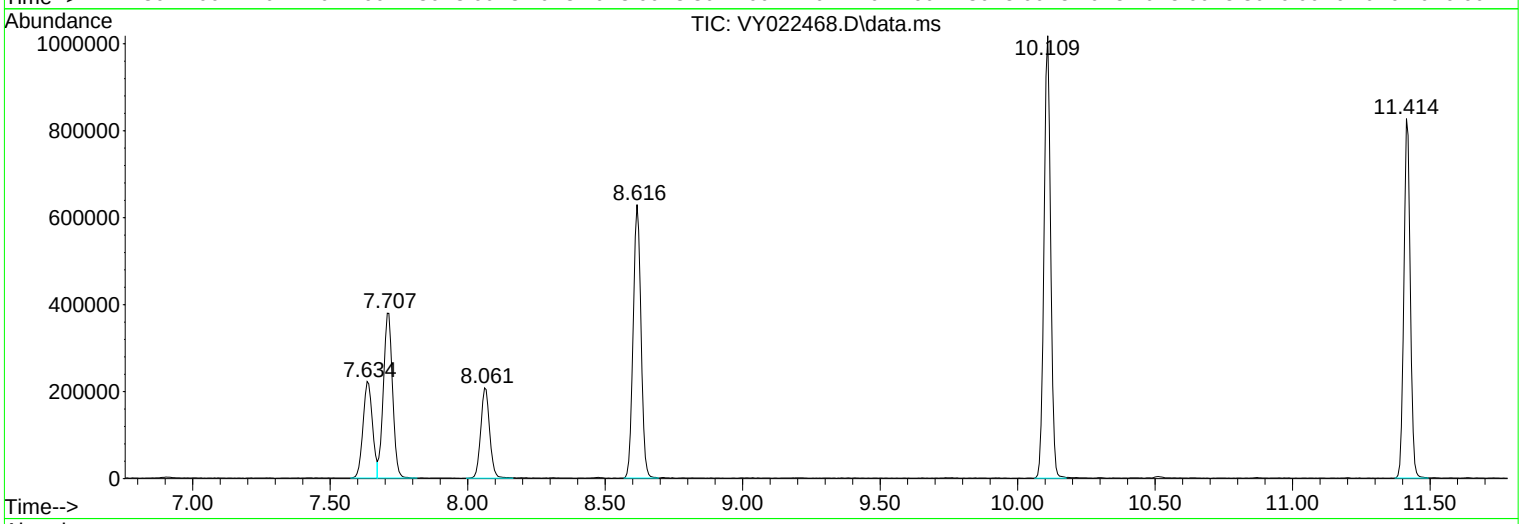
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022468.D
Acq On : 29 May 2025 15:33
Operator : SY/MD
Sample : Q2150-09
Misc : 7.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

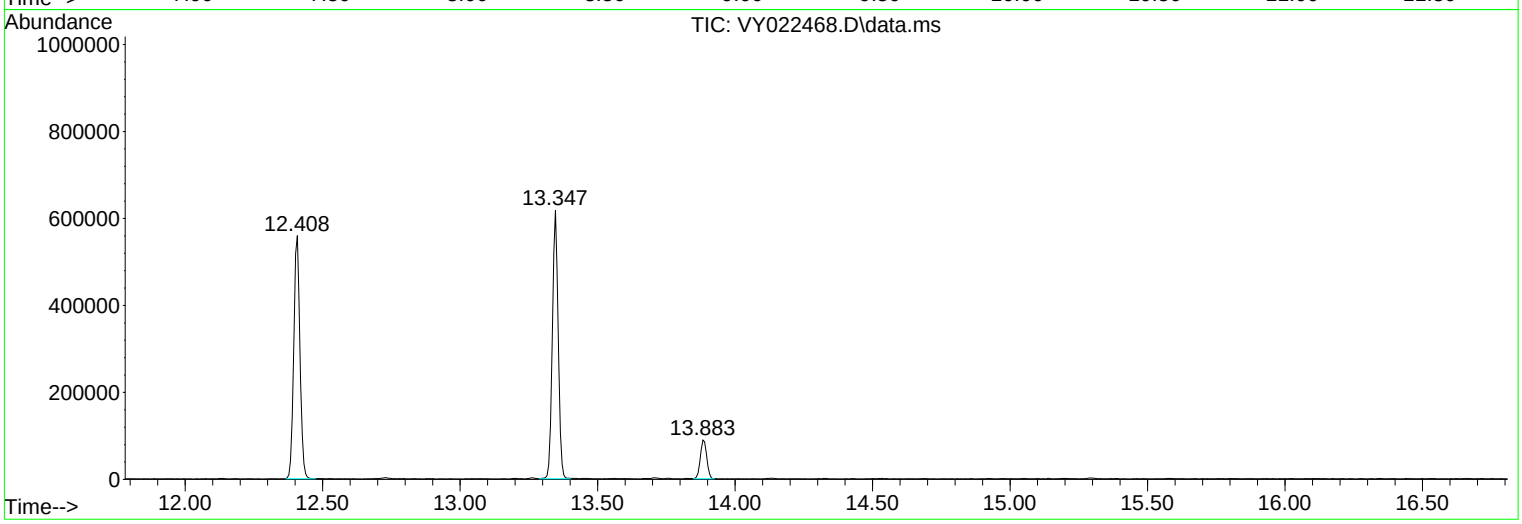
Instrument :
MSVOA_Y
ClientSampleId :
TP-54

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022468.D
Acq On : 29 May 2025 15:33
Operator : SY/MD
Sample : Q2150-09
Misc : 7.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

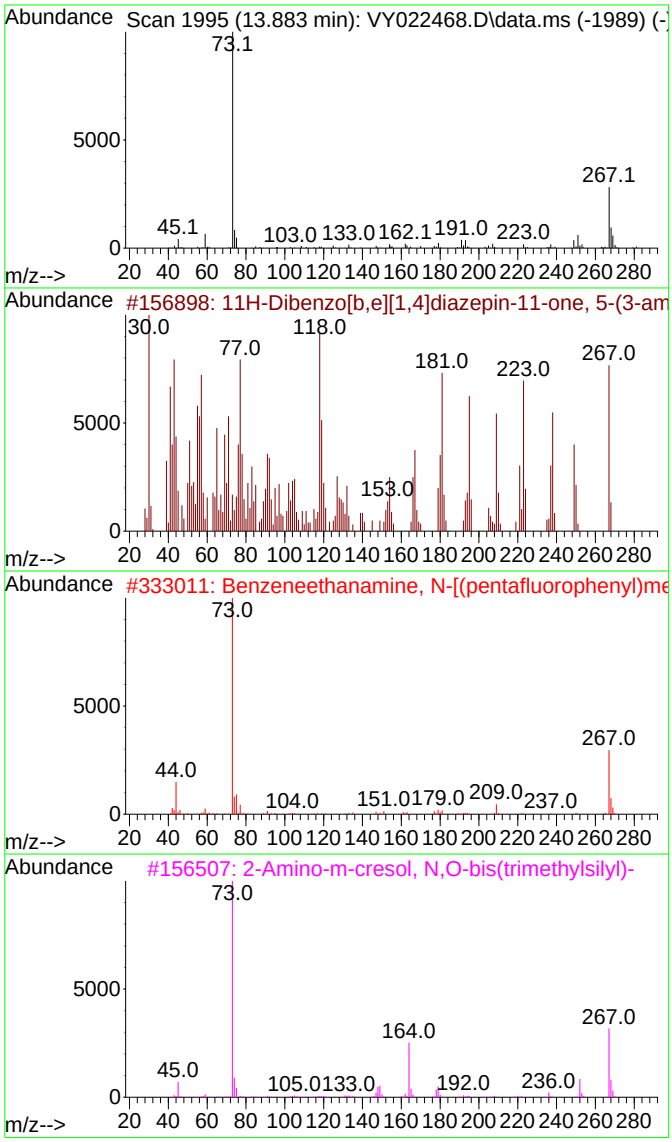
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

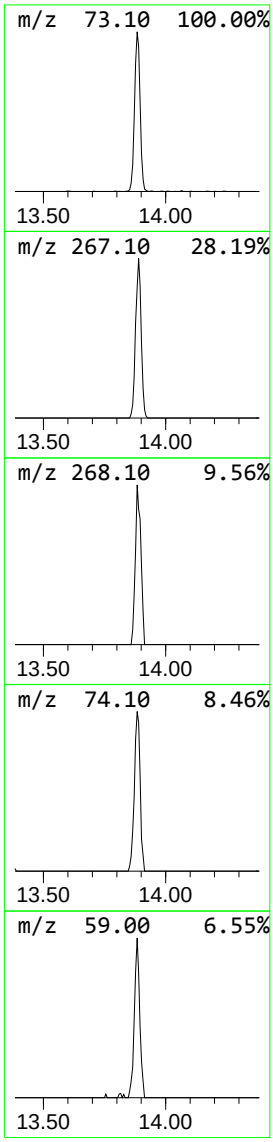
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.883	7.87 ug/l	144169	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	83
2	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	53
3	2-Amino-m-cresol, N,O-bis(trimet...	267	C13H25NOSi2	1000449-77-1	50
4	Benzeneethanamine, N-methyl-.bet...	311	C15H29NO2Si2	029522-18-7	45
5	4-(Methylamino)phenol, N,O-bis(t...	267	C13H25NOSi2	1000471-13-0	40





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022468.D
Acq On : 29 May 2025 15:33
Operator : SY/MD
Sample : Q2150-09
Misc : 7.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-54

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
11H-Dibenzo[b,e...	13.883	7.9	ug/l	144169	4	13.347	915773	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022469.D
Acq On : 29 May 2025 15:56
Operator : SY/MD
Sample : Q2150-10
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-53

Quant Time: May 30 05:36:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

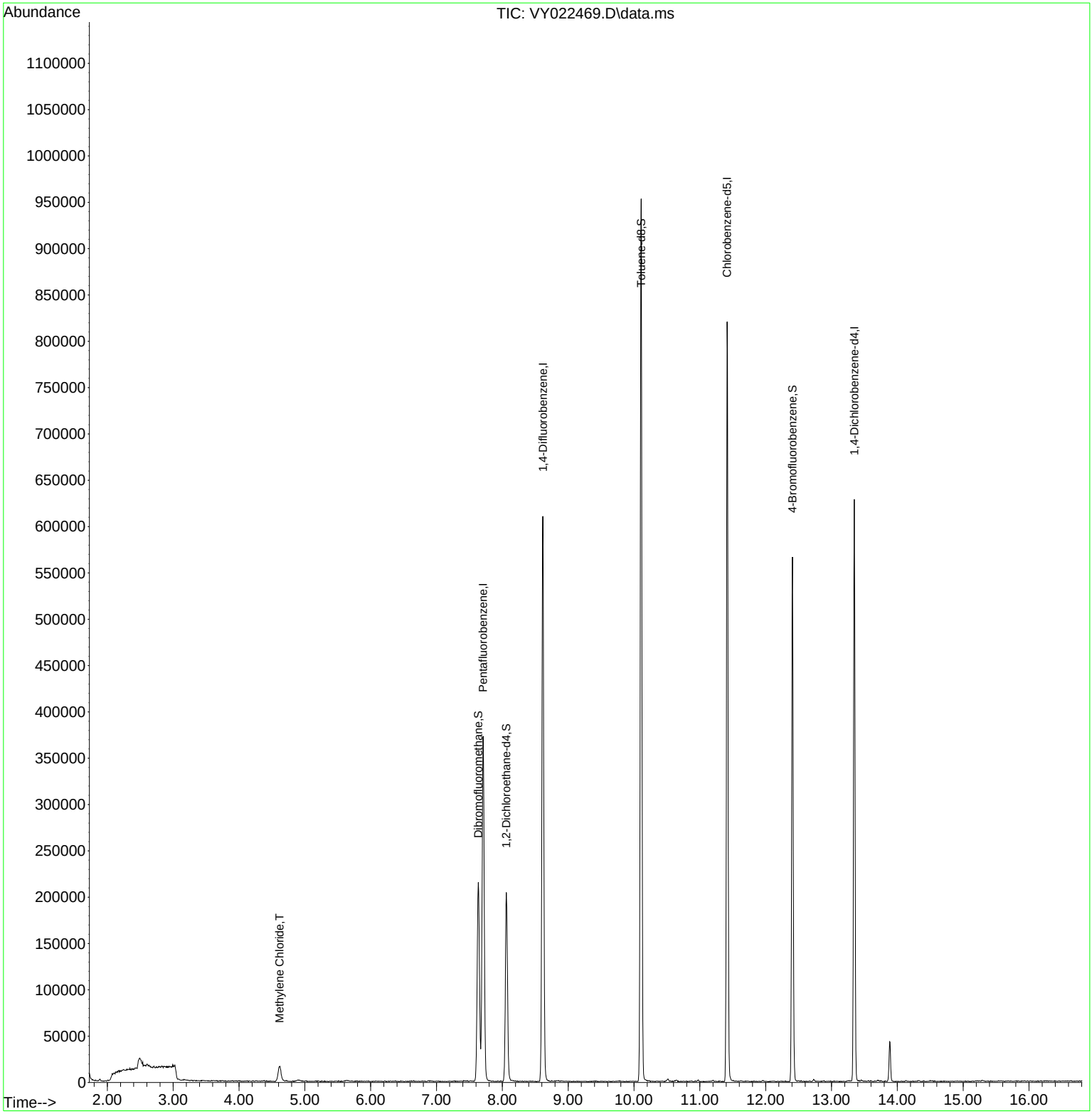
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	273493	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	503324	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	399677	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	145373	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151759	52.681	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.360%			
35) Dibromofluoromethane	7.634	113	150583	51.086	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.180%			
50) Toluene-d8	10.109	98	599966	49.930	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.860%			
62) 4-Bromofluorobenzene	12.408	95	151154	41.586	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 83.180%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	12212	3.653	ug/l #	82

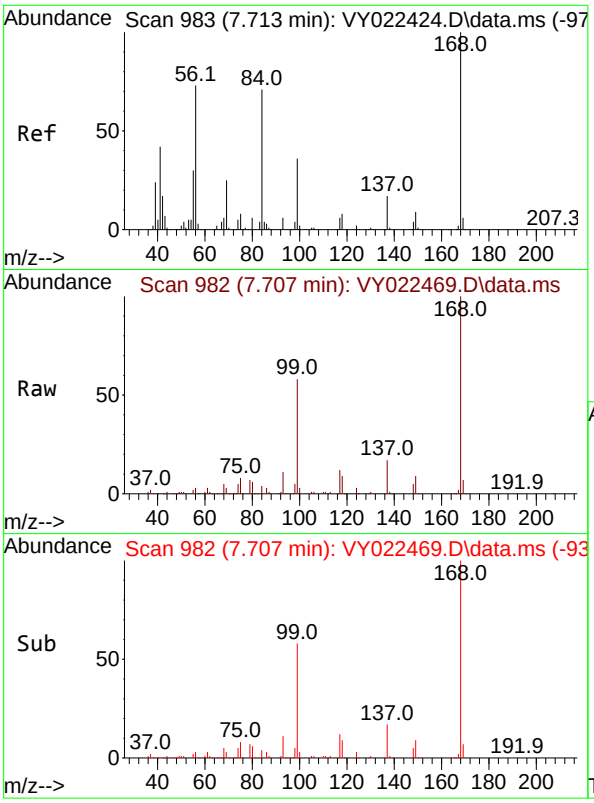
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022469.D
Acq On : 29 May 2025 15:56
Operator : SY/MD
Sample : Q2150-10
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-53

Quant Time: May 30 05:36:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



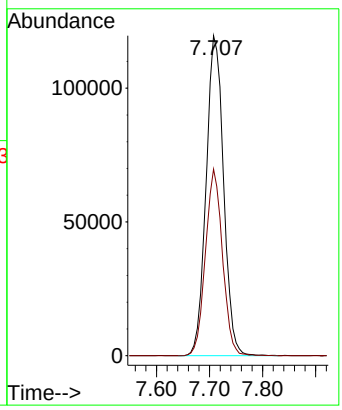


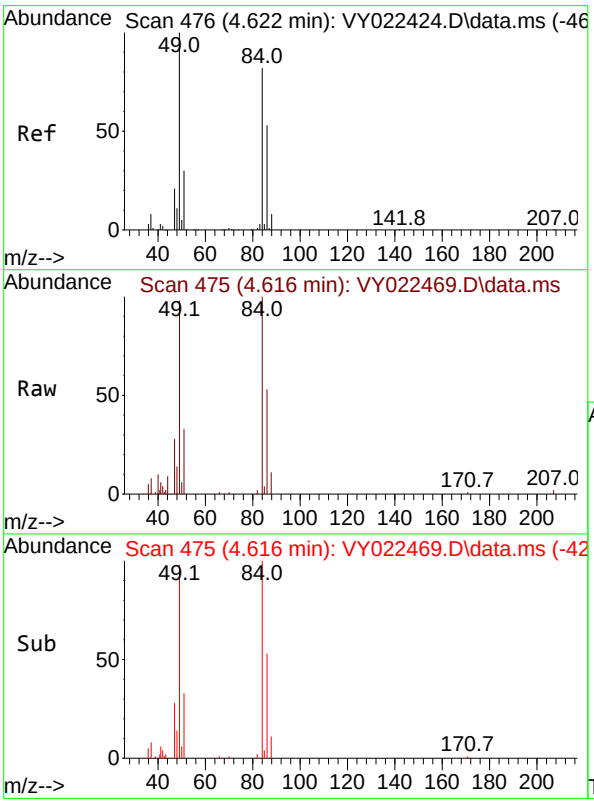
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022469.D
Acq: 29 May 2025 15:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-53

Tgt Ion:168 Resp: 273493

Ion	Ratio	Lower	Upper
168	100		
99	58.3	44.7	67.1

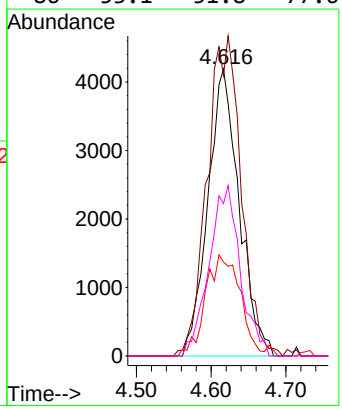


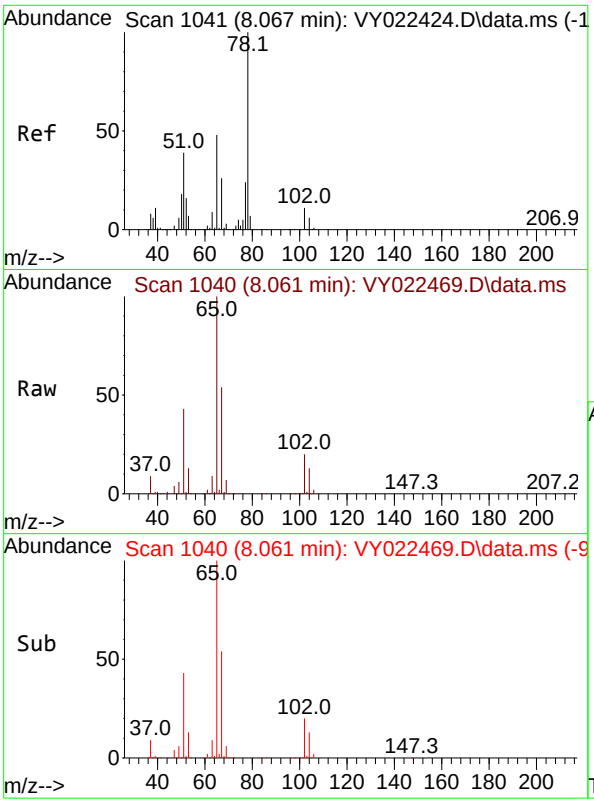


#20
Methylene Chloride
Concen: 3.653 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022469.D
Acq: 29 May 2025 15:56

Tgt Ion: 84 Resp: 12212

Ion	Ratio	Lower	Upper
84	100		
49	95.9	97.8	146.8#
51	32.8	29.5	44.3
86	53.1	51.8	77.6



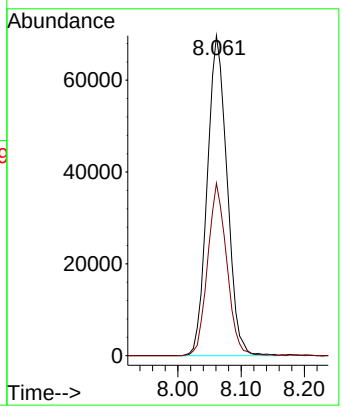


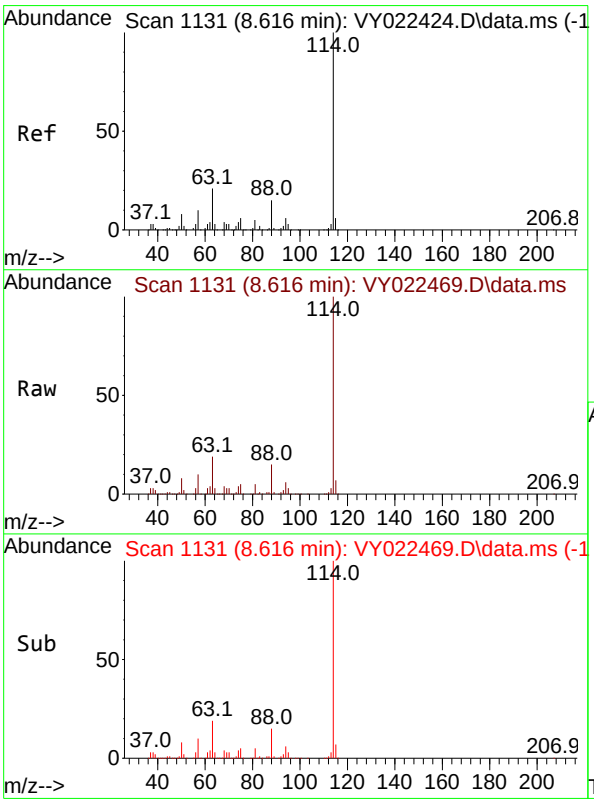
#33
1,2-Dichloroethane-d4
Concen: 52.681 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022469.D
Acq: 29 May 2025 15:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-53

Tgt Ion: 65 Resp: 151759

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.4

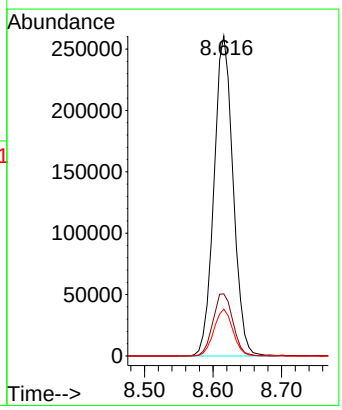


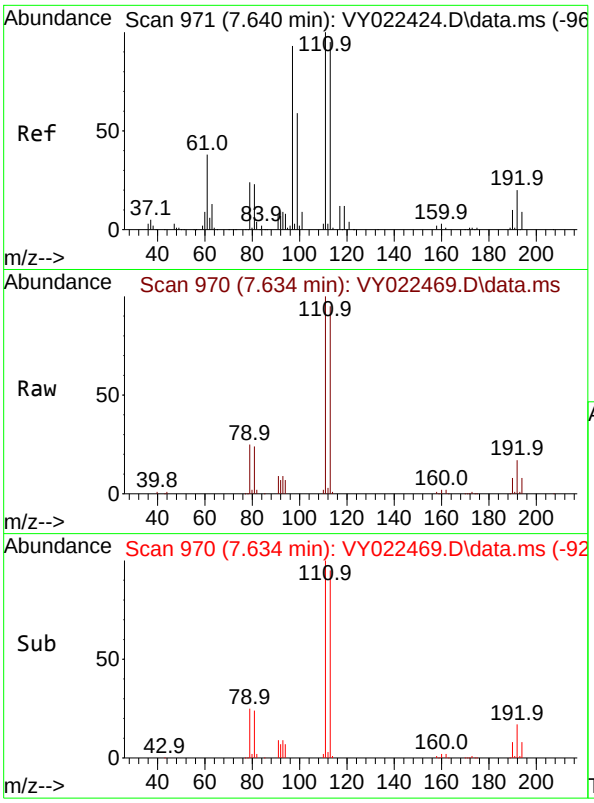


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022469.D
Acq: 29 May 2025 15:56

Tgt Ion:114 Resp: 503324

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	42.6
88	14.6	0.0	29.4



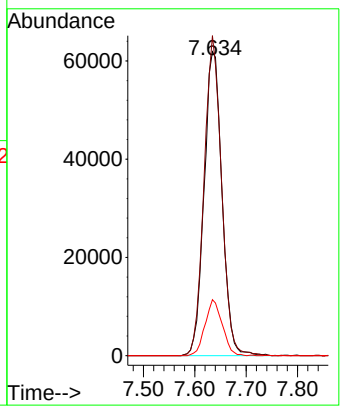


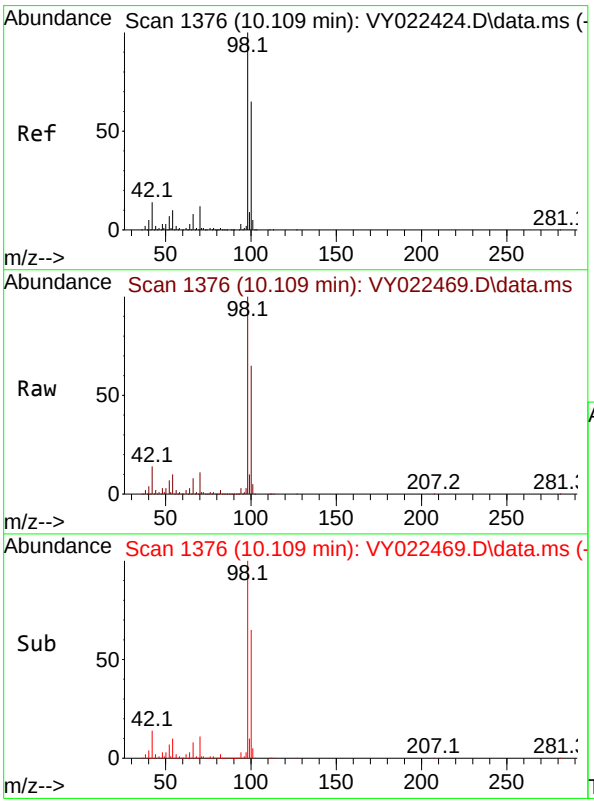
#35
Dibromofluoromethane
Concen: 51.086 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022469.D
Acq: 29 May 2025 15:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-53

Tgt Ion:113 Resp: 150583

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.4	123.6
192	17.6	15.2	22.8

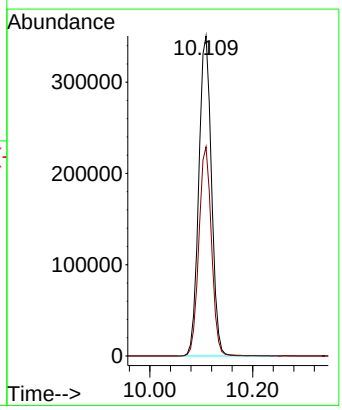


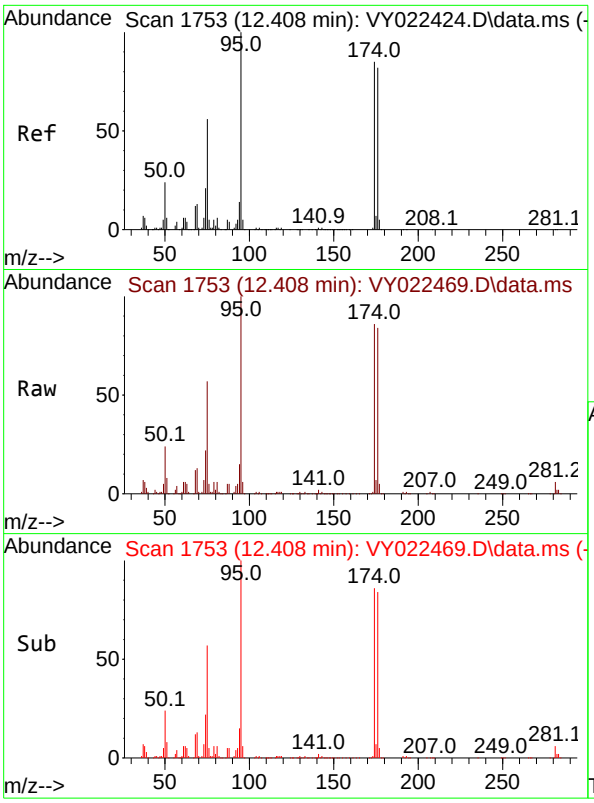


#50
Toluene-d8
Concen: 49.930 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022469.D
Acq: 29 May 2025 15:56

Tgt Ion: 98 Resp: 599966

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2



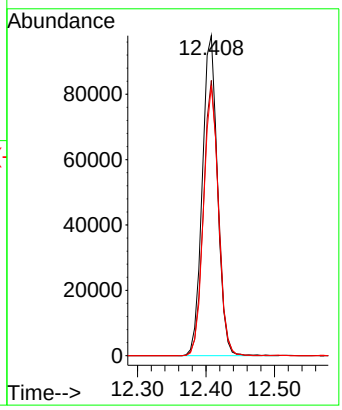


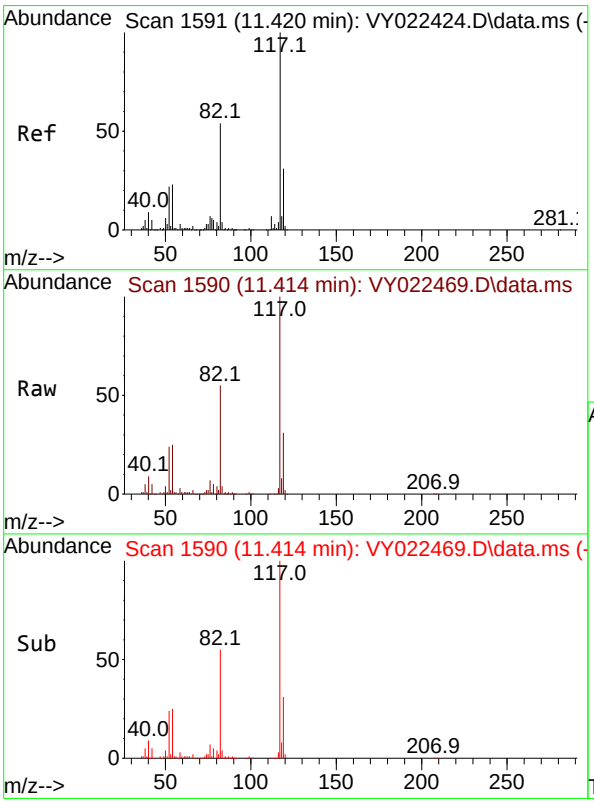
#62
4-Bromofluorobenzene
Concen: 41.586 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022469.D
Acq: 29 May 2025 15:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-53

Tgt Ion: 95 Resp: 151154

Ion	Ratio	Lower	Upper
95	100		
174	85.2	0.0	171.6
176	82.6	0.0	164.6

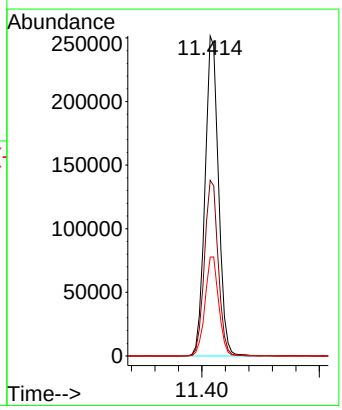


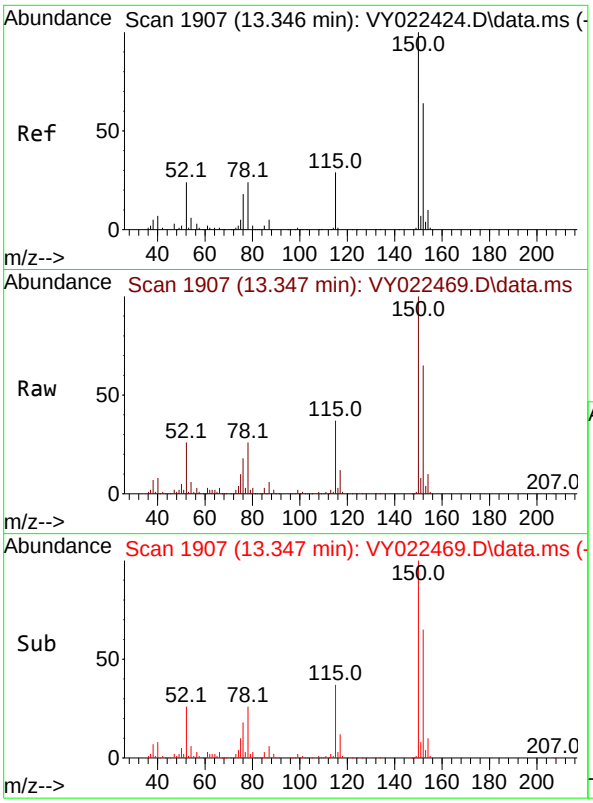


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022469.D
Acq: 29 May 2025 15:56

Tgt Ion:117 Resp: 399677

Ion	Ratio	Lower	Upper
117	100		
82	54.9	43.3	64.9
119	30.9	24.5	36.7



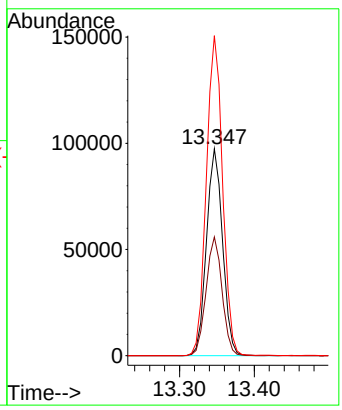


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022469.D
Acq: 29 May 2025 15:56

Instrument :
MSVOA_Y
ClientSampleId :
TP-53

Tgt Ion:152 Resp: 145373

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.4	85.3
150	155.8	0.0	345.8



Sample Results: **VY022469.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022469.D
Acq On : 29 May 2025 15:56
Operator : SY/MD
Sample : Q2150-10
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-53

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\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022469.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.489	120	126	133	rBV2	11375	38286	2.34%	0.479%
2	4.623	464	476	488	rBV2	16375	55584	3.39%	0.695%
3	7.634	959	970	976	rBV	214754	518765	31.66%	6.486%
4	7.707	976	982	996	rVB	371924	838269	51.16%	10.480%
5	8.061	1031	1040	1051	rBV	204199	455413	27.79%	5.694%
6	8.616	1123	1131	1144	rBV	609841	1195594	72.97%	14.947%
7	10.109	1367	1376	1390	rBV	952536	1638487	100.00%	20.484%
8	11.414	1582	1590	1601	rBV	820231	1319908	80.56%	16.501%
9	12.408	1746	1753	1764	rBV2	566004	916110	55.91%	11.453%
10	13.347	1900	1907	1916	rBV	627821	950516	58.01%	11.883%
11	13.883	1988	1995	2005	rVB2	43024	71878	4.39%	0.899%

Sum of corrected areas: 7998810

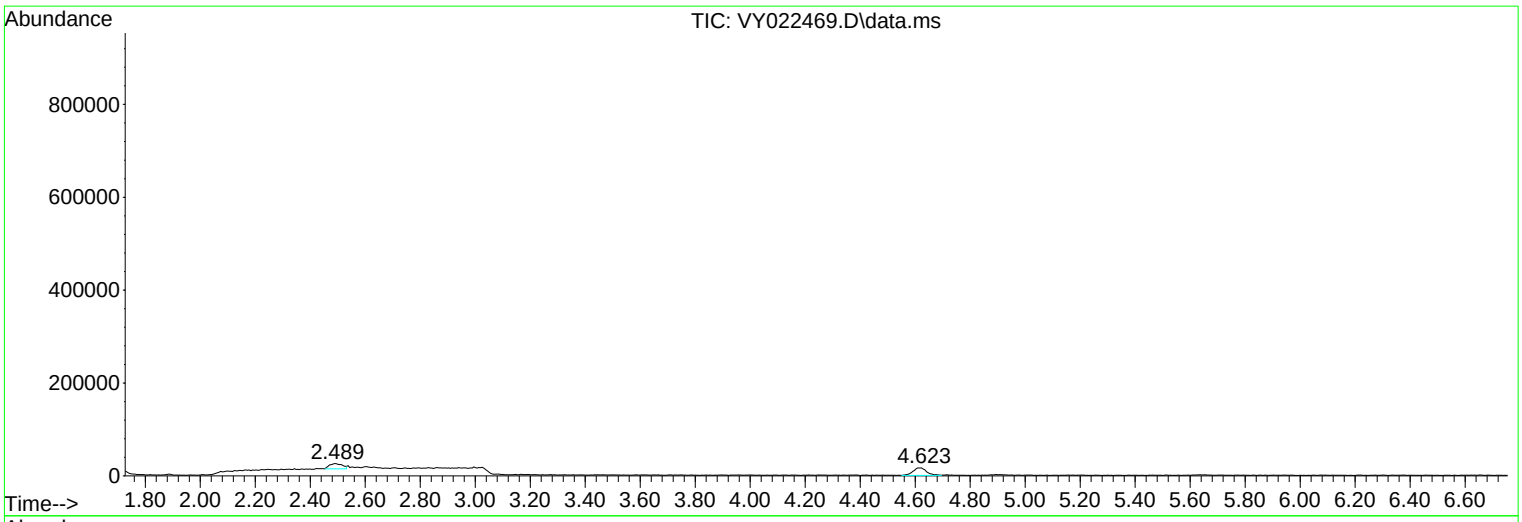
Sample Results: **VY022469.D**

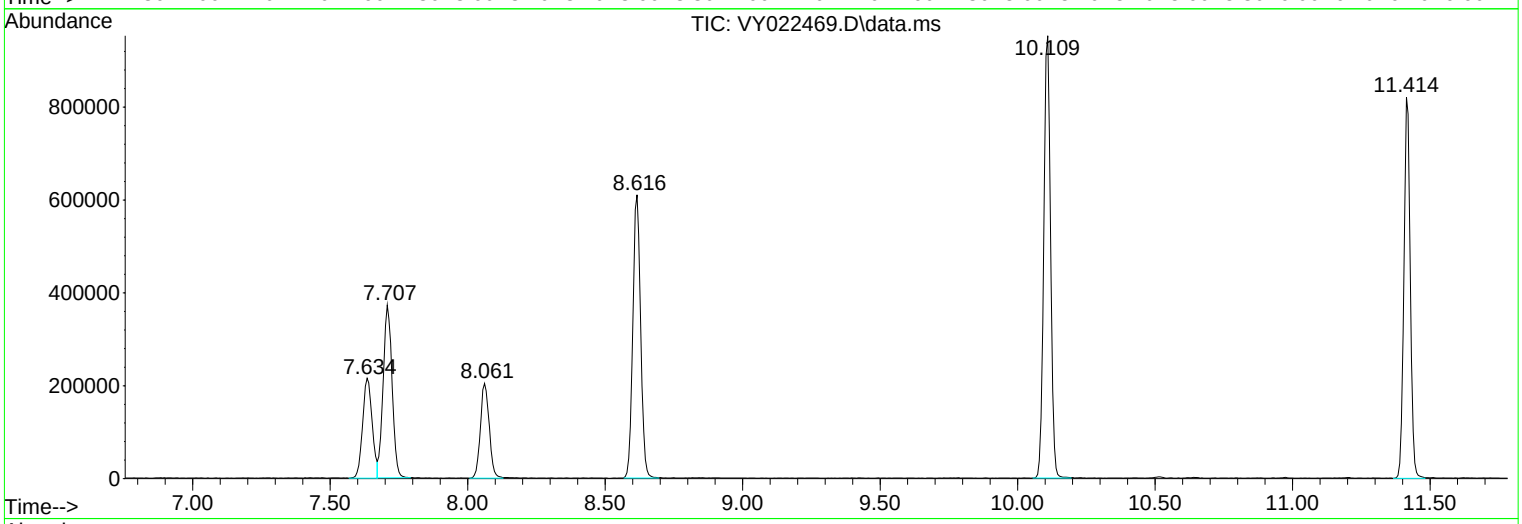
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022469.D
Acq On : 29 May 2025 15:56
Operator : SY/MD
Sample : Q2150-10
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

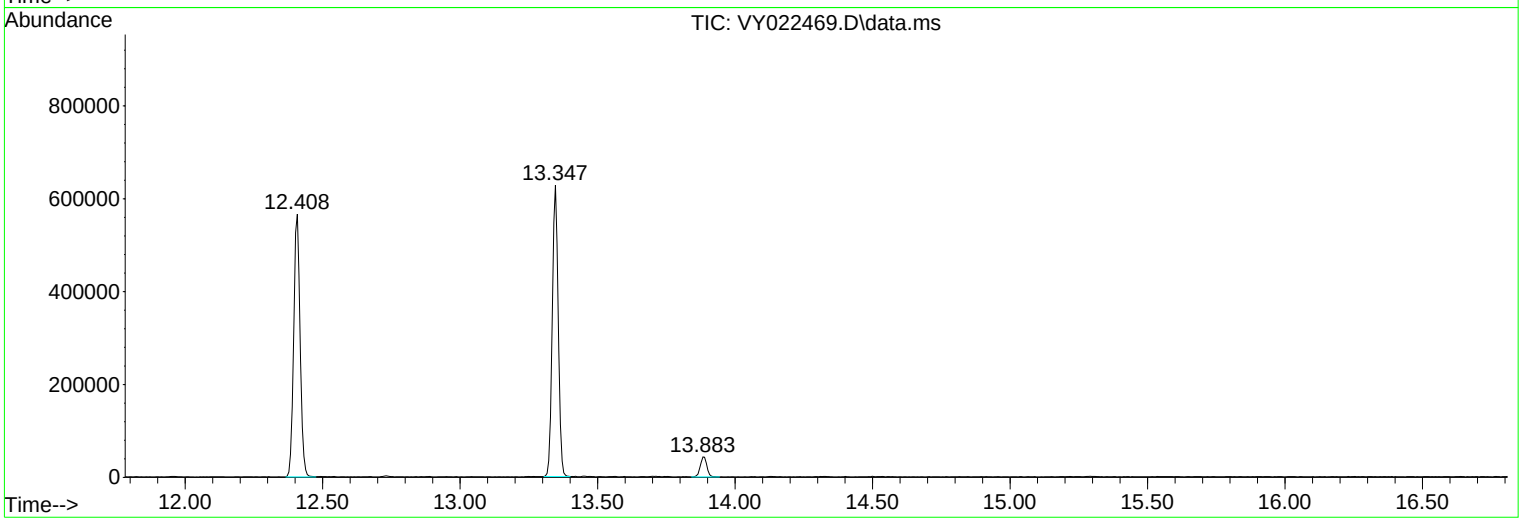
Instrument :
MSVOA_Y
ClientSampleId :
TP-53

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022469.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022469.D
Acq On : 29 May 2025 15:56
Operator : SY/MD
Sample : Q2150-10
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-53

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022469.D
Acq On : 29 May 2025 15:56
Operator : SY/MD
Sample : Q2150-10
Misc : 7.78g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-53

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022454.D
Acq On : 29 May 2025 08:56
Operator : SY/MD
Sample : VY0529SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBL01

Quant Time: May 30 05:29:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	320837	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	584950	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	455837	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	159461	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	180255	53.339	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.680%			
35) Dibromofluoromethane	7.646	113	173894	50.762	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.520%			
50) Toluene-d8	10.115	98	699660	50.101	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.200%			
62) 4-Bromofluorobenzene	12.413	95	172737	40.893	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 81.780%			

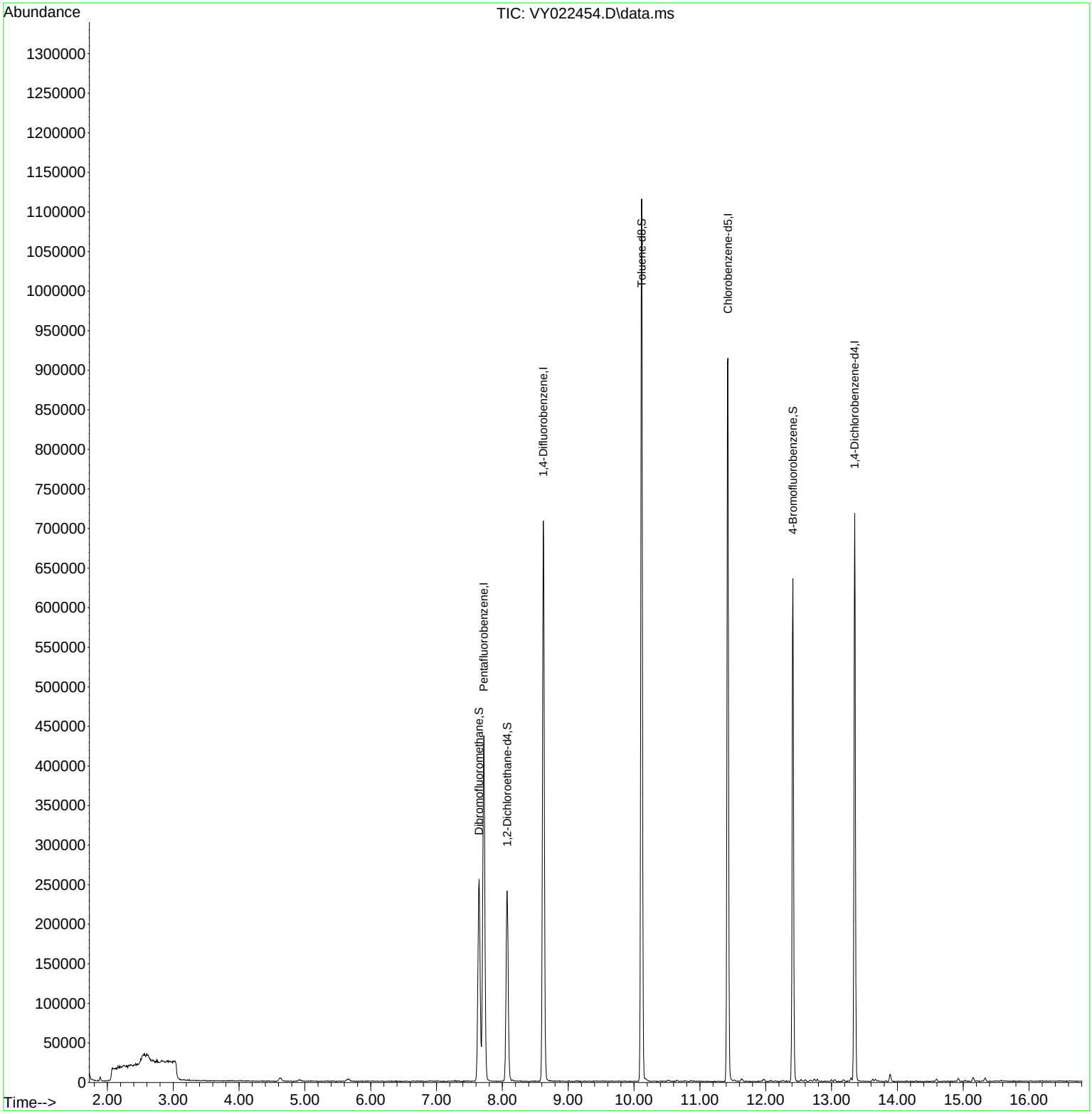
Target Compounds	Qvalue

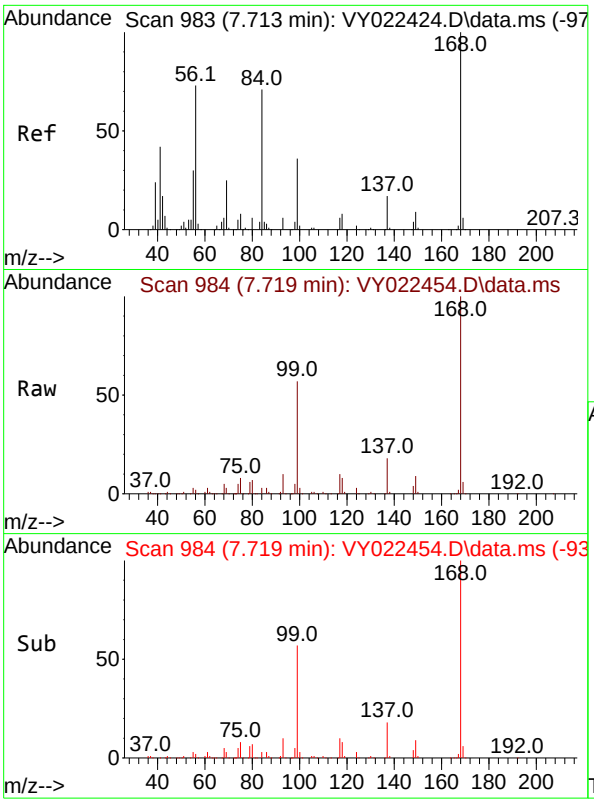
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022454.D
Acq On : 29 May 2025 08:56
Operator : SY/MD
Sample : VY0529SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBL01

Quant Time: May 30 05:29:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



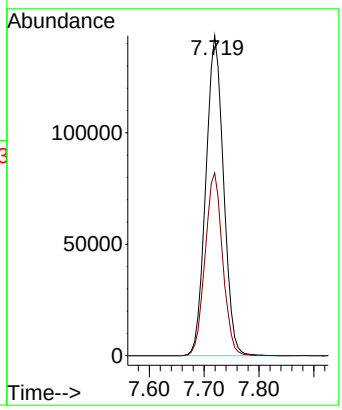


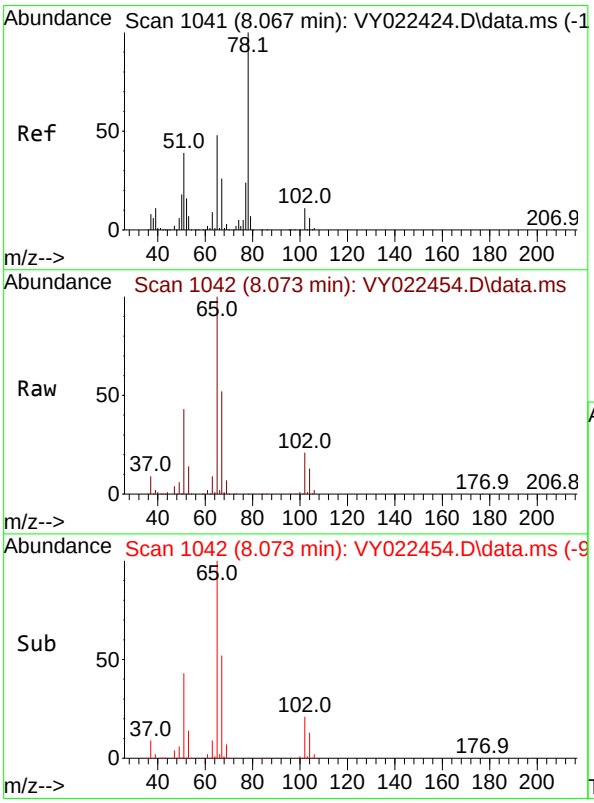
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022454.D
Acq: 29 May 2025 08:56

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBL01

Tgt Ion:168 Resp: 320837

Ion	Ratio	Lower	Upper
168	100		
99	57.1	44.7	67.1

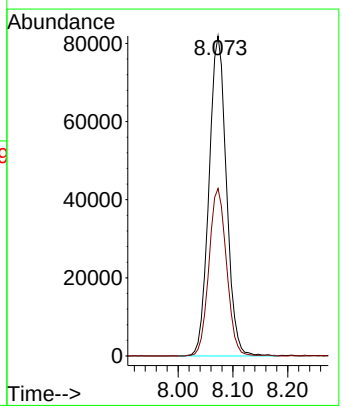


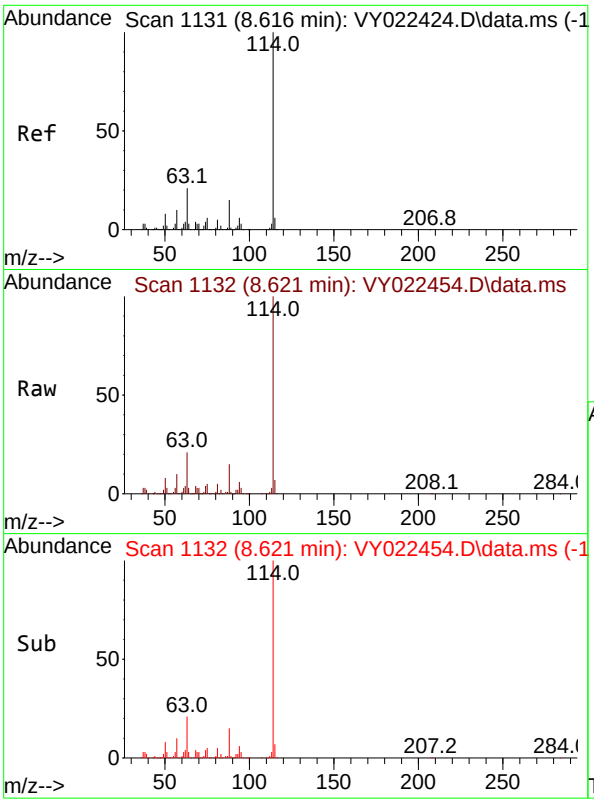


#33
1,2-Dichloroethane-d4
Concen: 53.339 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.006 min
Lab File: VY022454.D
Acq: 29 May 2025 08:56

Tgt Ion: 65 Resp: 180255

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.4



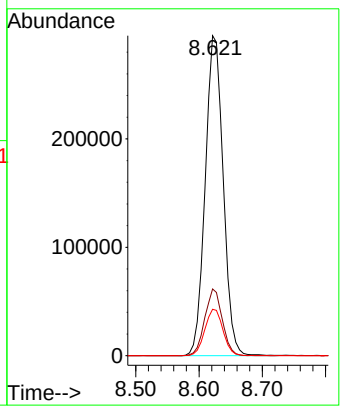


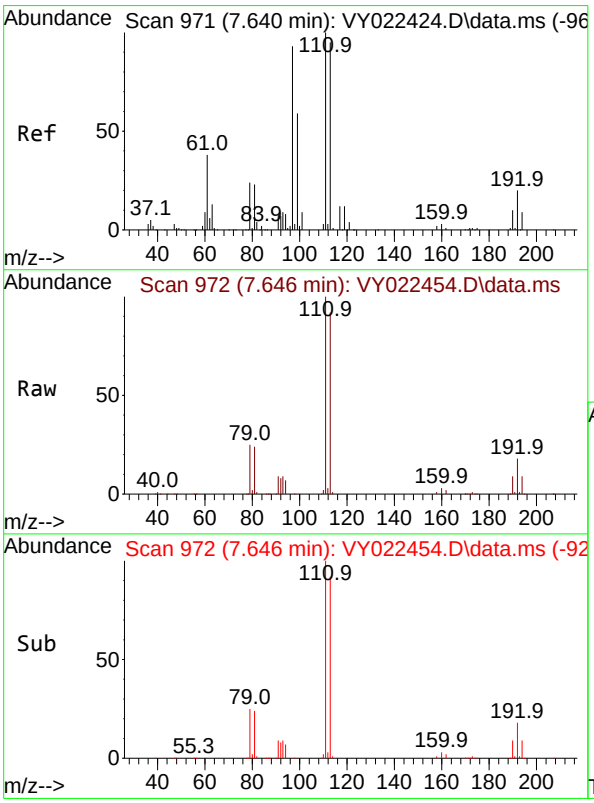
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022454.D
Acq: 29 May 2025 08:56

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBL01

Tgt Ion:114 Resp: 584950

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	42.6
88	14.5	0.0	29.4

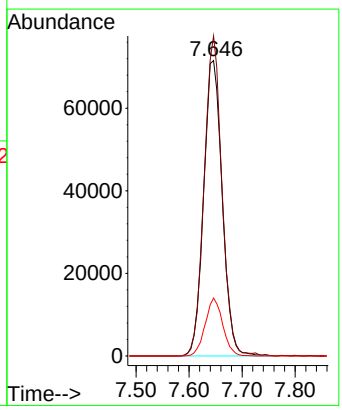


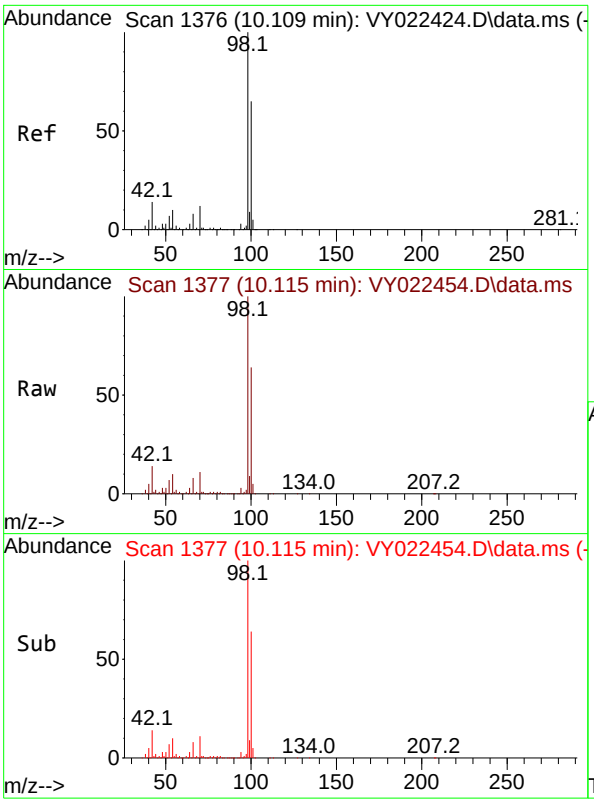


#35
Dibromofluoromethane
Concen: 50.762 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.006 min
Lab File: VY022454.D
Acq: 29 May 2025 08:56

Tgt Ion:113 Resp: 173894

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.4	123.6
192	18.6	15.2	22.8



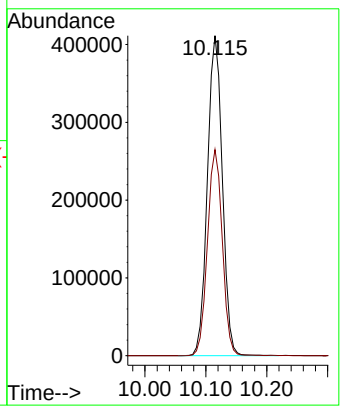


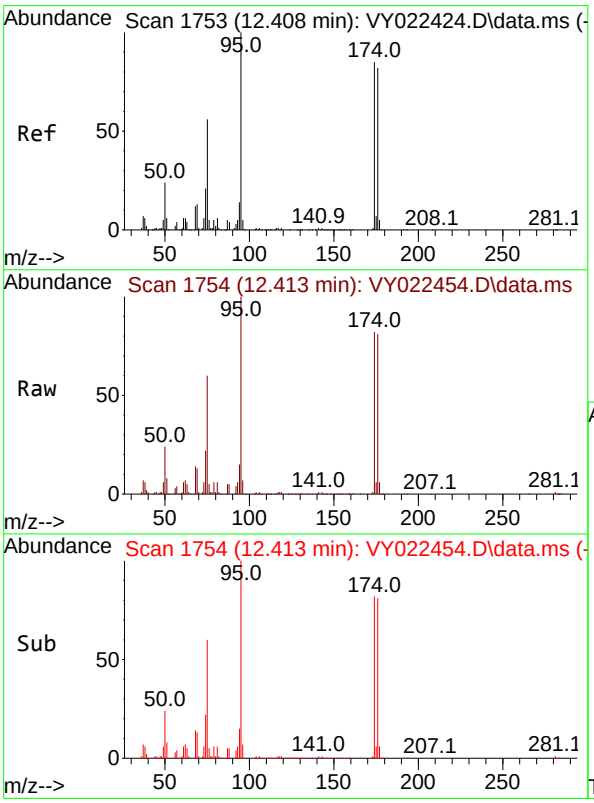
#50
Toluene-d8
Concen: 50.101 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022454.D
Acq: 29 May 2025 08:56

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBL01

Tgt Ion: 98 Resp: 699660

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.2	78.2

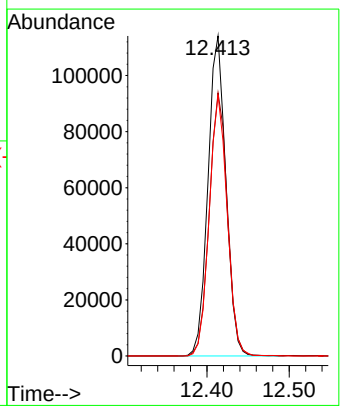


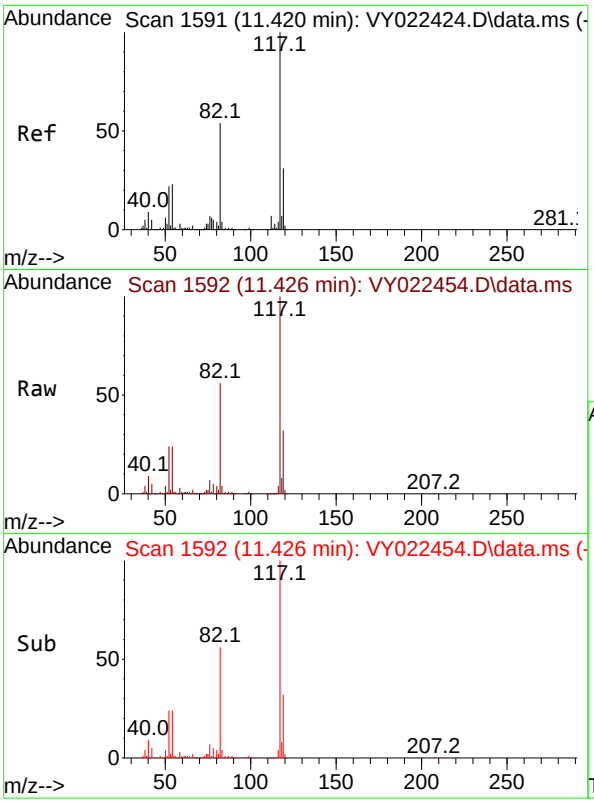


#62
4-Bromofluorobenzene
Concen: 40.893 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022454.D
Acq: 29 May 2025 08:56

Tgt Ion: 95 Resp: 172737

Ion	Ratio	Lower	Upper
95	100		
174	83.6	0.0	171.6
176	81.5	0.0	164.6



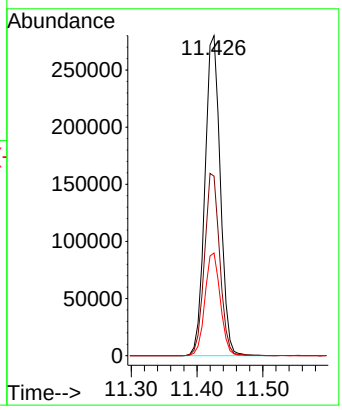


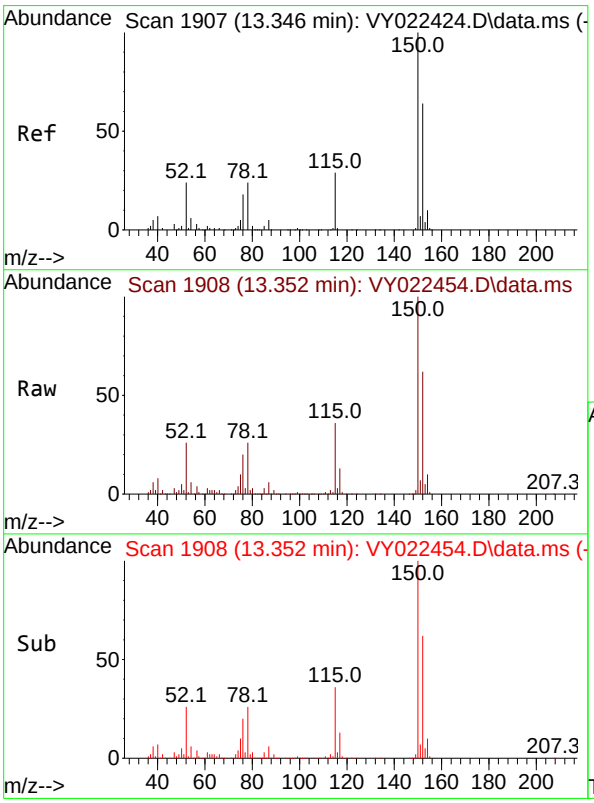
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022454.D
Acq: 29 May 2025 08:56

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBL01

Tgt Ion:117 Resp: 455837

Ion	Ratio	Lower	Upper
117	100		
82	56.1	43.3	64.9
119	32.1	24.5	36.7

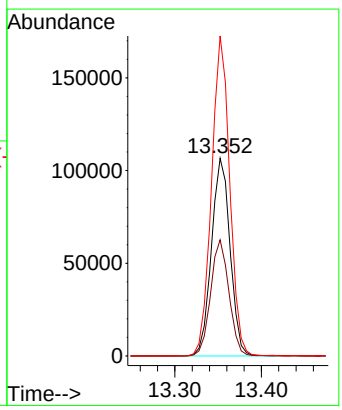




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022454.D
Acq: 29 May 2025 08:56

Tgt Ion:152 Resp: 159461

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.4	85.3
150	157.8	0.0	345.8



Sample Results: **VY022454.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022454.D
Acq On : 29 May 2025 08:56
Operator : SY/MD
Sample : VY0529SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBL01

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\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022454.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	51	59	60	rBV3	16100	28783	1.51%	0.321%
2	7.646	961	972	978	rBV	255112	607533	31.93%	6.771%
3	7.719	978	984	1000	rVB	436707	975162	51.25%	10.868%
4	8.073	1032	1042	1053	rBV	240353	537253	28.24%	5.987%
5	8.621	1123	1132	1146	rBV	708320	1387838	72.95%	15.467%
6	10.115	1369	1377	1386	rBV	1115218	1902581	100.00%	21.203%
7	11.426	1583	1592	1605	rBV	914308	1506160	79.16%	16.785%
8	12.413	1746	1754	1763	rBV	635695	980938	51.56%	10.932%
9	13.352	1902	1908	1916	rVB	716844	1046890	55.02%	11.667%

Sum of corrected areas: 8973138

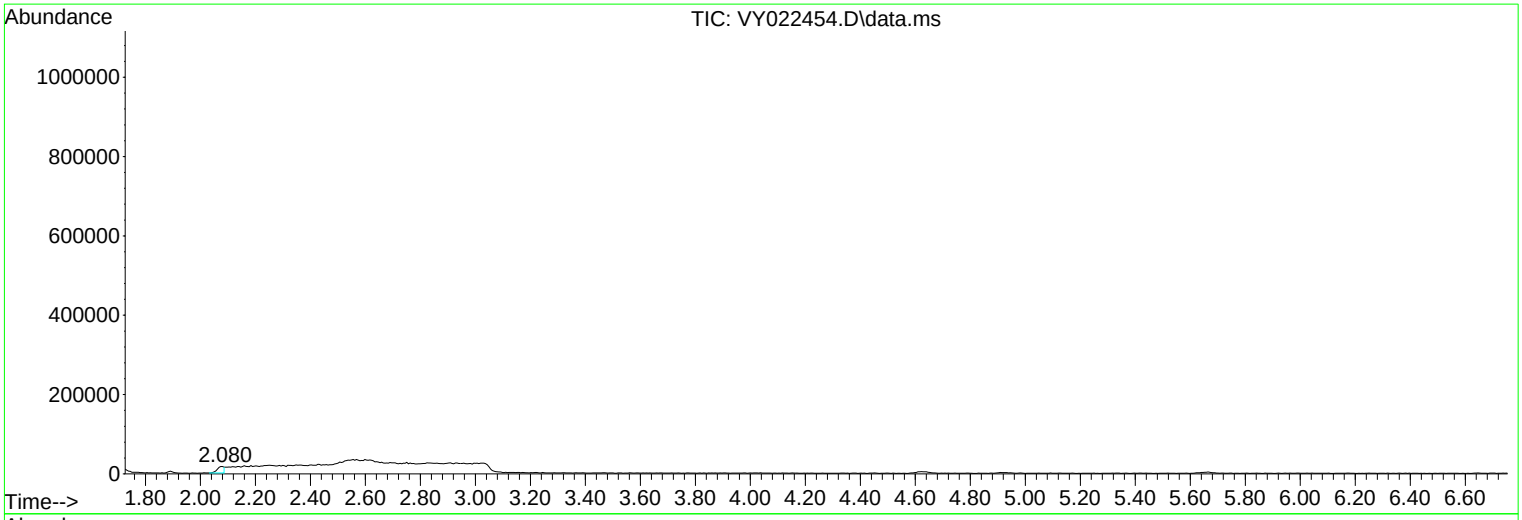
Sample Results: **VY022454.D**

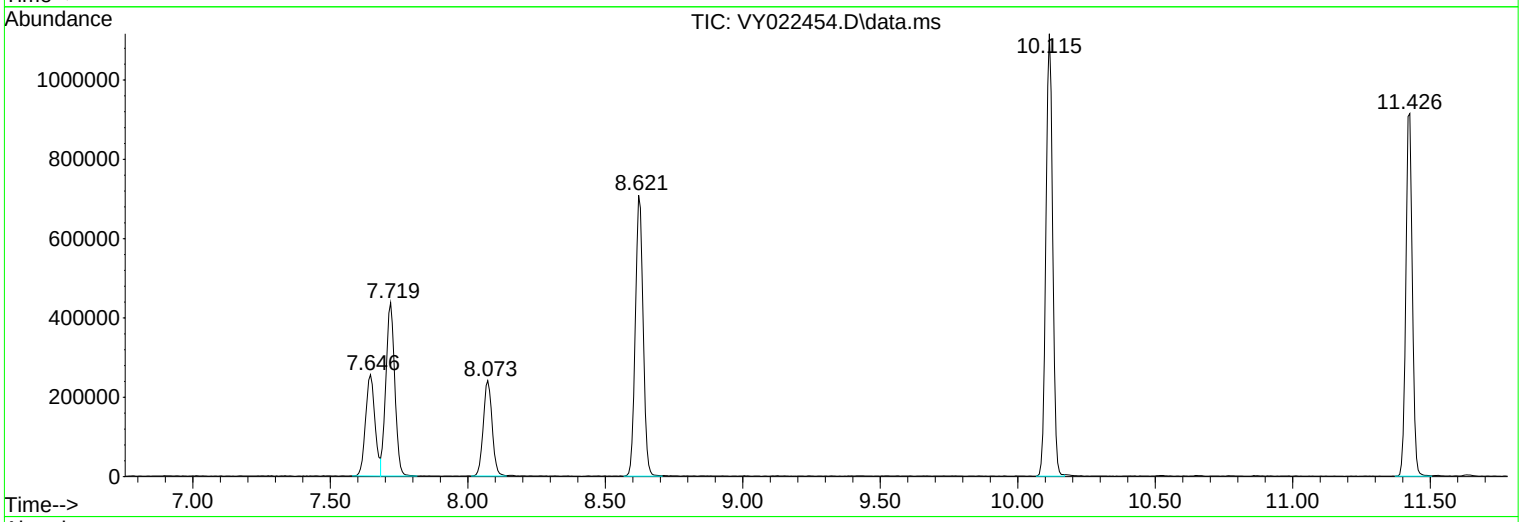
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022454.D
Acq On : 29 May 2025 08:56
Operator : SY/MD
Sample : VY0529SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

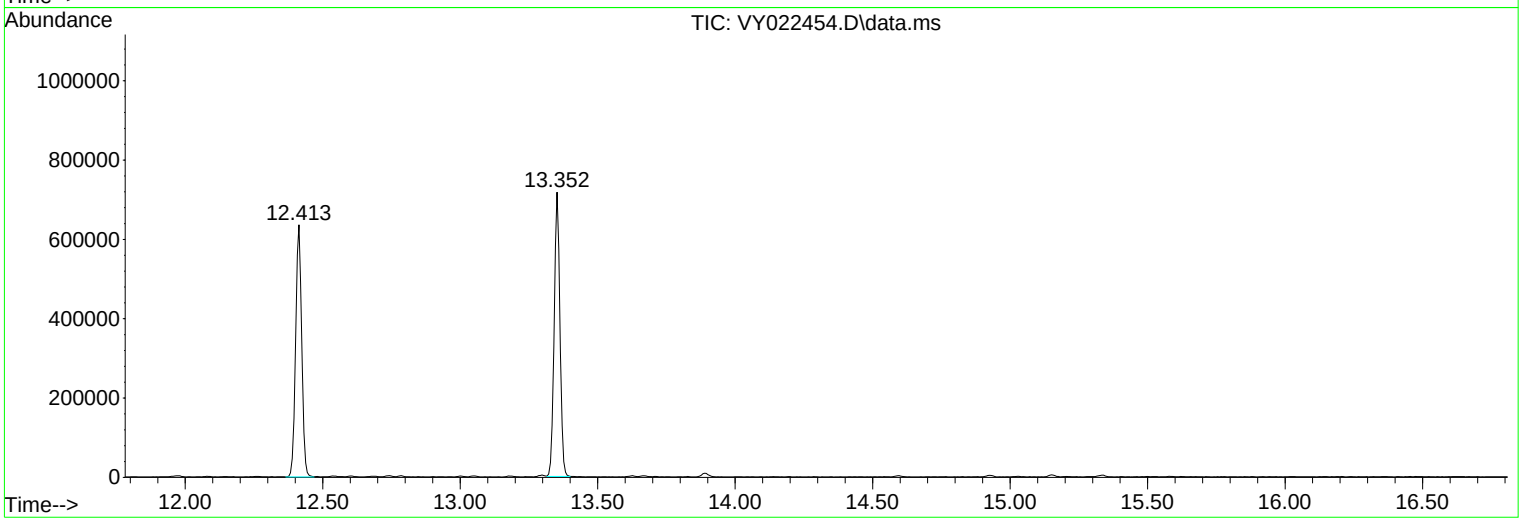
Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022454.D
Acq On : 29 May 2025 08:56
Operator : SY/MD
Sample : VY0529SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022454.D
Acq On : 29 May 2025 08:56
Operator : SY/MD
Sample : VY0529SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022499.D
Acq On : 02 Jun 2025 16:00
Operator : SY/MD
Sample : VY0602SBL02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBL02

Quant Time: Jun 03 04:06:08 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	309051	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	557091	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	442919	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	162489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	183940	53.215	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.420%			
35) Dibromofluoromethane	7.634	113	169603	51.006	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.020%			
50) Toluene-d8	10.109	98	667368	49.671	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.340%			
62) 4-Bromofluorobenzene	12.408	95	171494	42.839	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 85.680%			

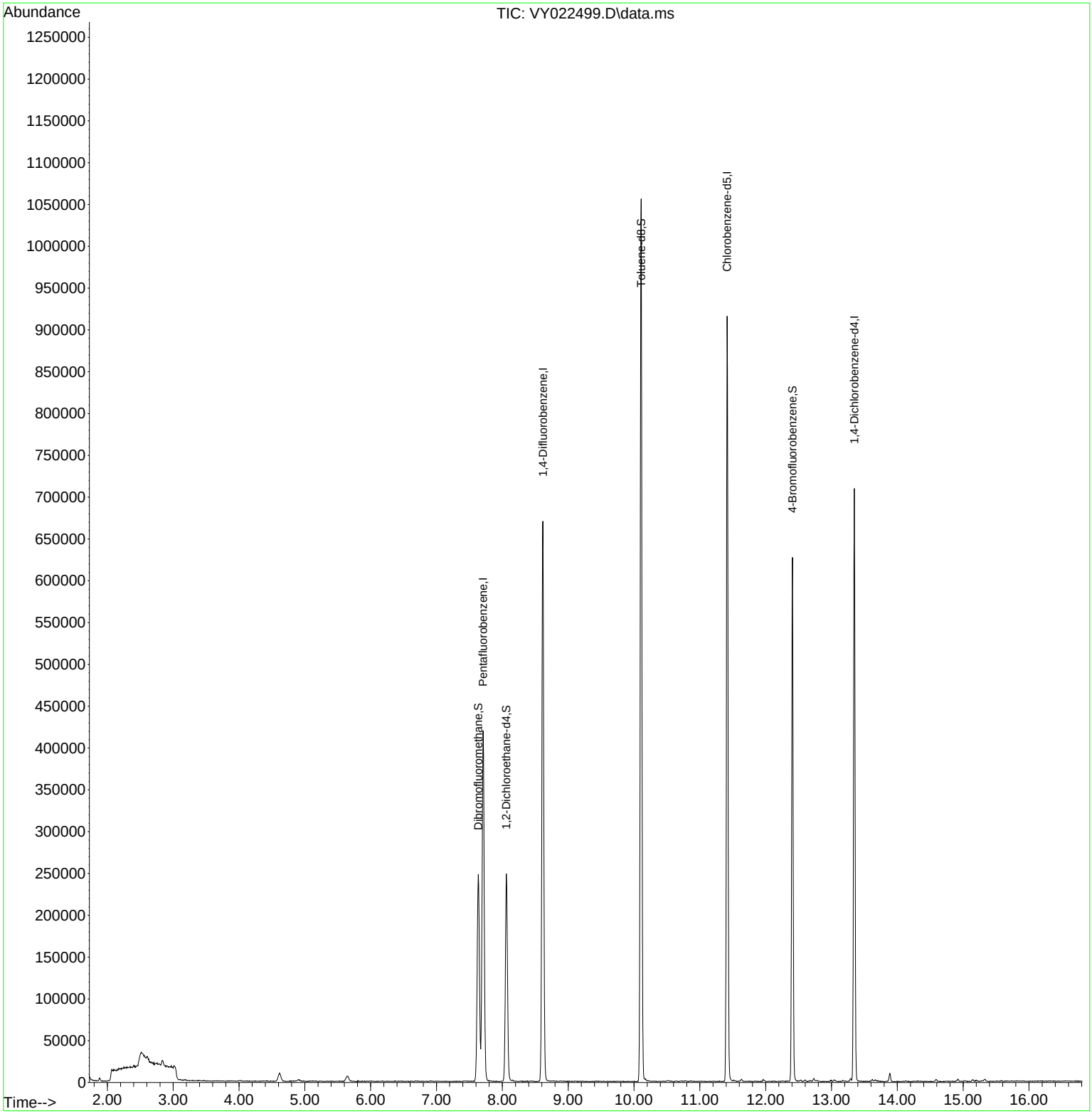
Target Compounds Qvalue

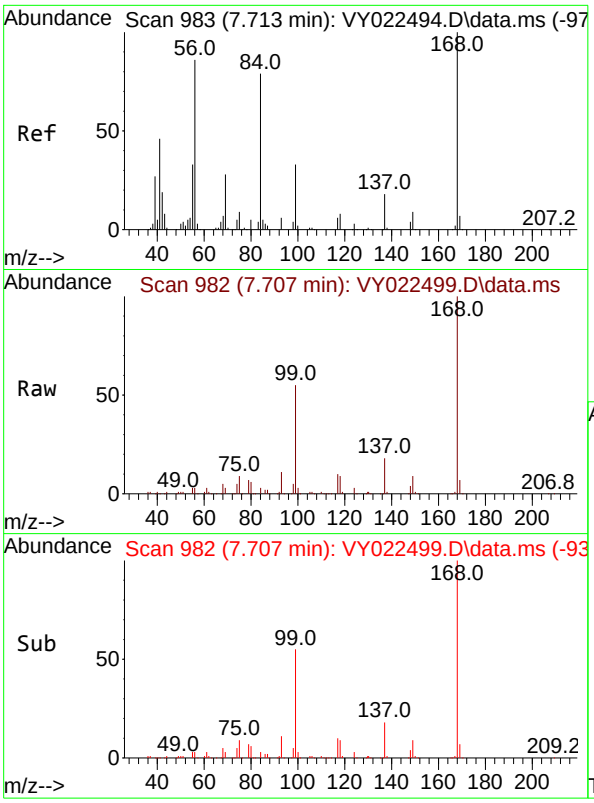
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022499.D
Acq On : 02 Jun 2025 16:00
Operator : SY/MD
Sample : VY0602SBL02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBL02

Quant Time: Jun 03 04:06:08 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



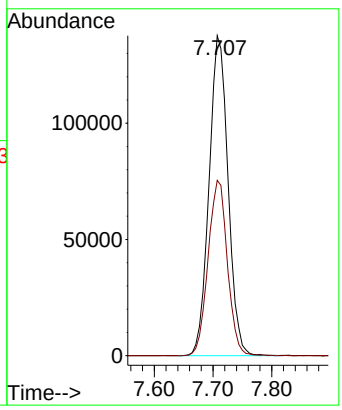


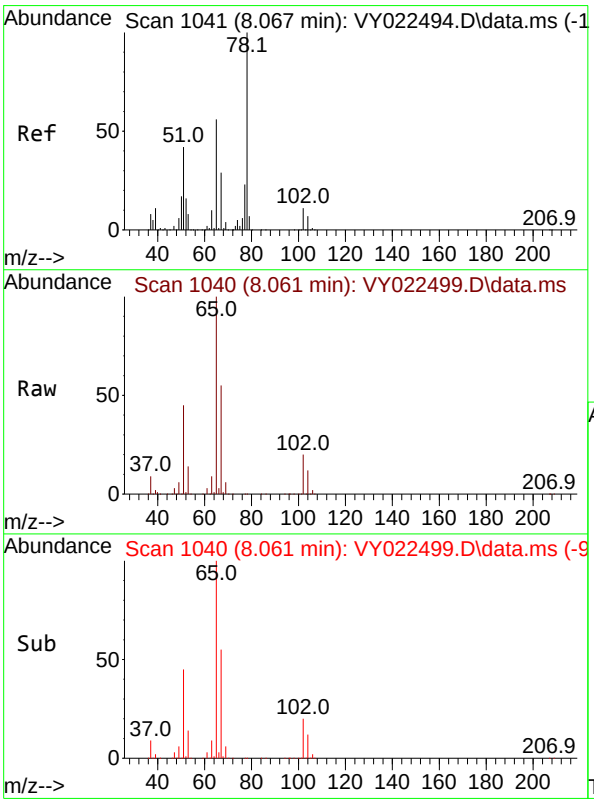
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022499.D
Acq: 02 Jun 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBL02

Tgt Ion:168 Resp: 309051

Ion	Ratio	Lower	Upper
168	100		
99	54.8	44.3	66.5

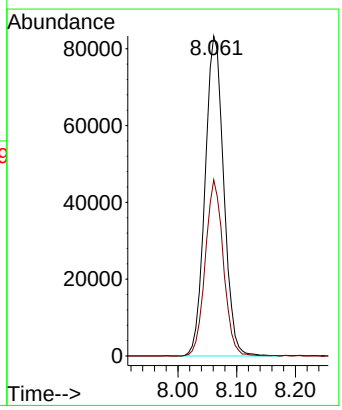




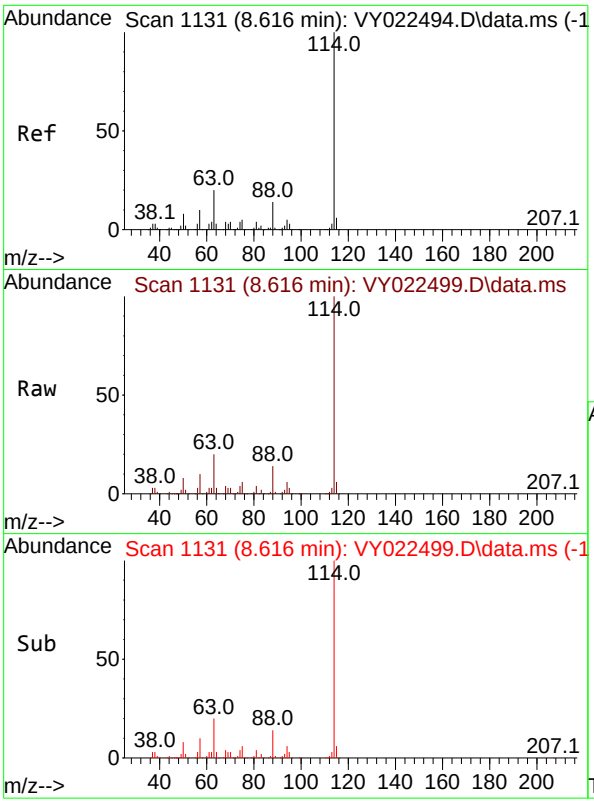
#33
1,2-Dichloroethane-d4
Concen: 53.215 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022499.D
Acq: 02 Jun 2025 16:00

Tgt Ion: 65 Resp: 183940

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	103.4



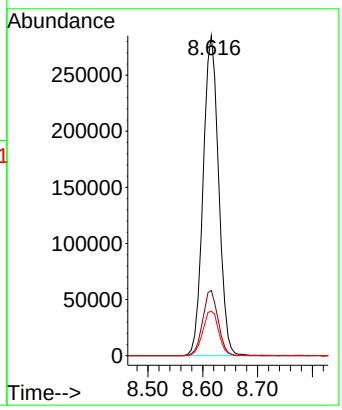
Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBL02

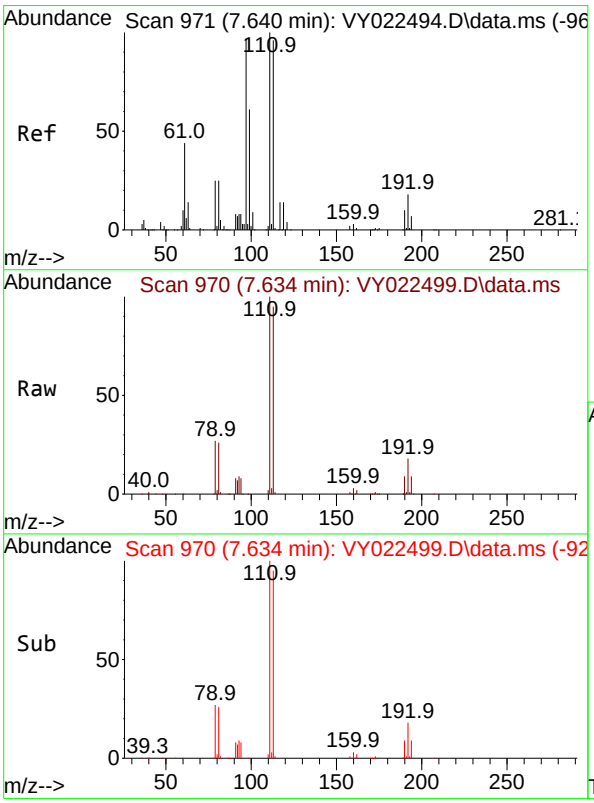


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022499.D
Acq: 02 Jun 2025 16:00

Tgt Ion:114 Resp: 557091

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.8
88	13.9	0.0	27.8

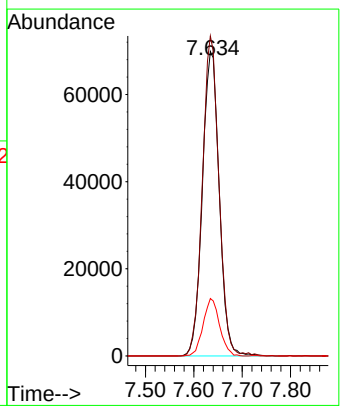


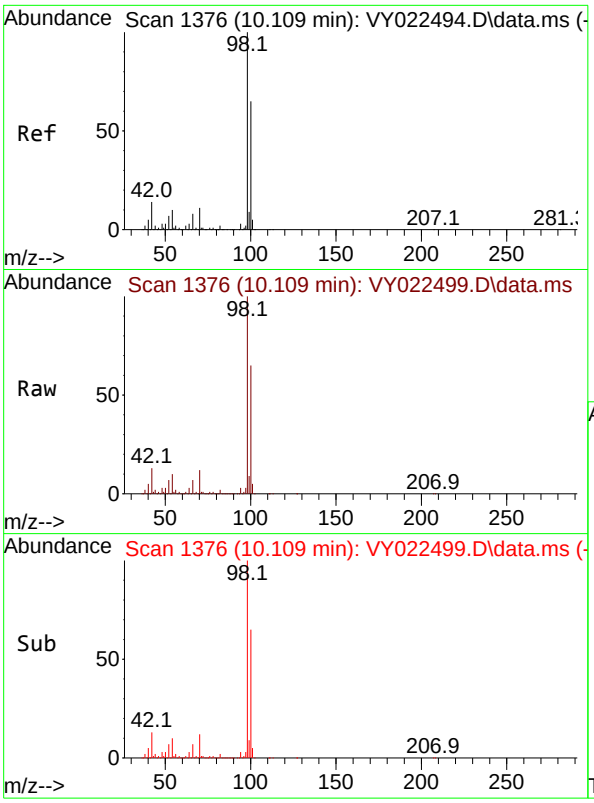


#35
Dibromofluoromethane
Concen: 51.006 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022499.D
Acq: 02 Jun 2025 16:00

Tgt Ion:113 Resp: 169603

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.1	121.7
192	18.4	14.2	21.2



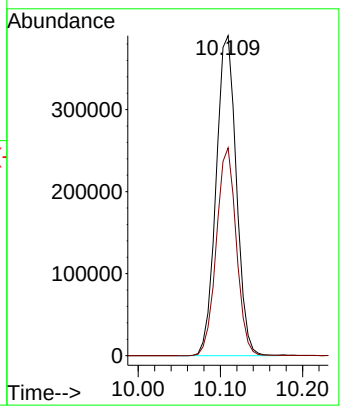


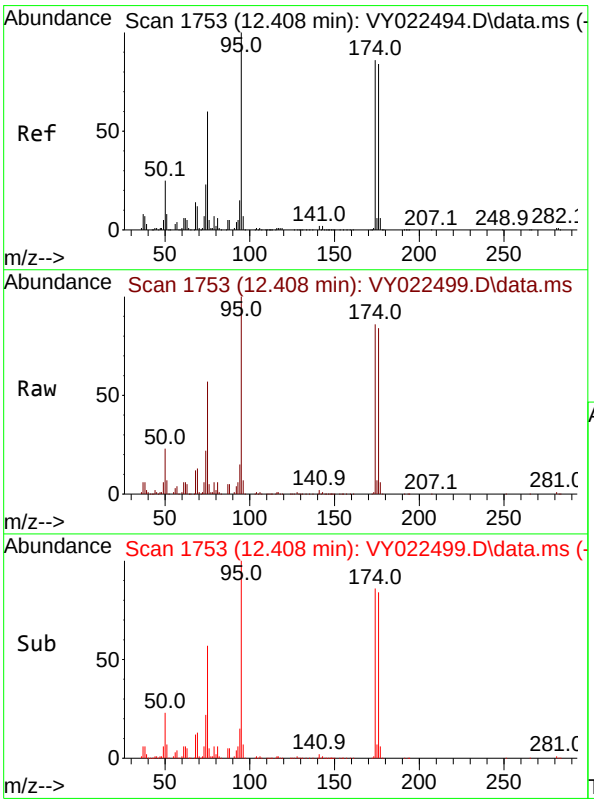
#50
Toluene-d8
Concen: 49.671 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022499.D
Acq: 02 Jun 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBL02

Tgt Ion: 98 Resp: 667368

Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.4	77.0

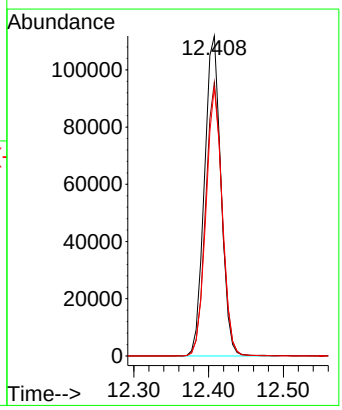


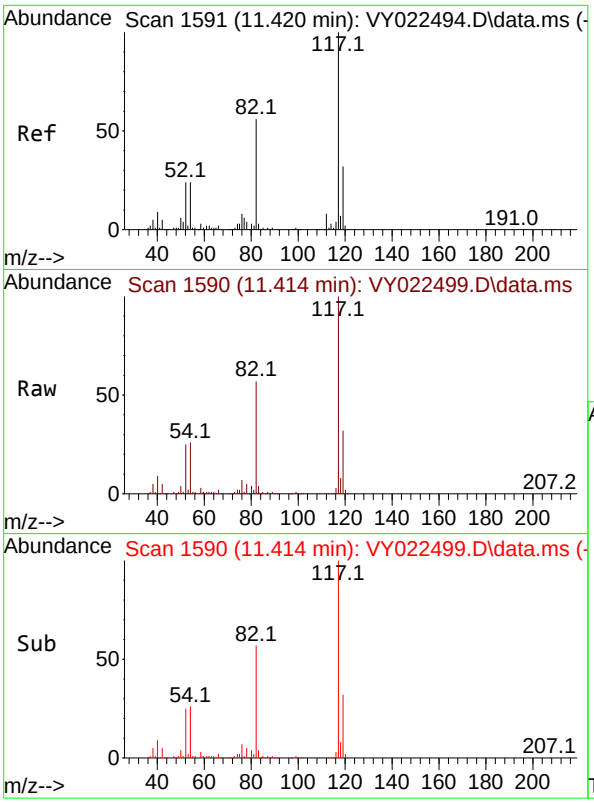


#62
4-Bromofluorobenzene
Concen: 42.839 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022499.D
Acq: 02 Jun 2025 16:00

Tgt Ion: 95 Resp: 171494

Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	170.0
176	82.6	0.0	166.2



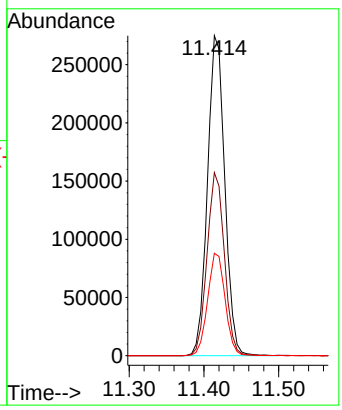


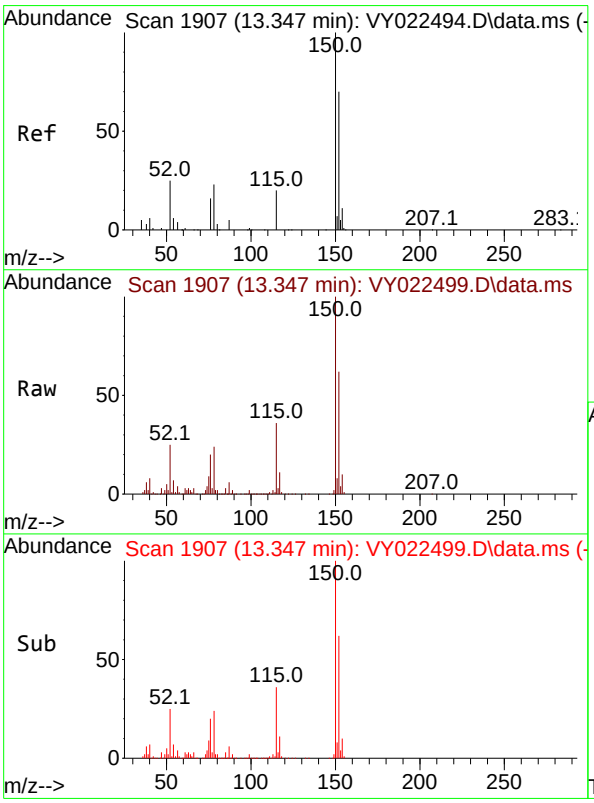
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022499.D
Acq: 02 Jun 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBL02

Tgt Ion:117 Resp: 442919

Ion	Ratio	Lower	Upper
117	100		
82	57.2	44.6	66.8
119	32.0	25.4	38.0

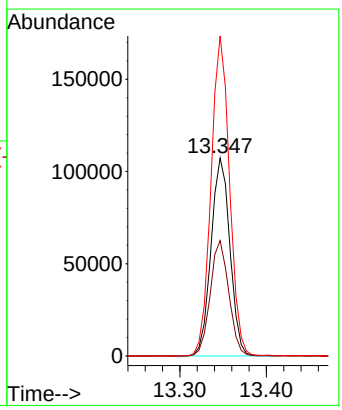




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022499.D
Acq: 02 Jun 2025 16:00

Tgt Ion:152 Resp: 162489

Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.9	86.7
150	158.3	0.0	349.6



Sample Results: **VY022499.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022499.D
Acq On : 02 Jun 2025 16:00
Operator : SY/MD
Sample : VY0602SBL02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBL02

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: VY022499.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.068	51	57	59	rBV3	13660	24330	1.34%	0.273%
2	2.513	122	130	137	rBV6	16020	65352	3.60%	0.734%
3	3.013	210	212	223	rVB2	17123	43912	2.42%	0.493%
4	4.616	462	475	484	rBV2	9940	29846	1.64%	0.335%
5	7.634	960	970	976	rBV	247706	590845	32.52%	6.635%
6	7.707	976	982	996	rVB	419106	937532	51.60%	10.528%
7	8.061	1028	1040	1052	rBV2	248411	548476	30.19%	6.159%
8	8.616	1122	1131	1143	rBV	669742	1320492	72.68%	14.829%
9	10.109	1365	1376	1386	rBV	1055825	1816847	100.00%	20.403%
10	11.414	1582	1590	1603	rBV	915174	1477522	81.32%	16.592%
11	12.408	1745	1753	1764	rBV	626580	970404	53.41%	10.897%
12	13.347	1900	1907	1917	rVB	708959	1079407	59.41%	12.121%

Sum of corrected areas: 8904965

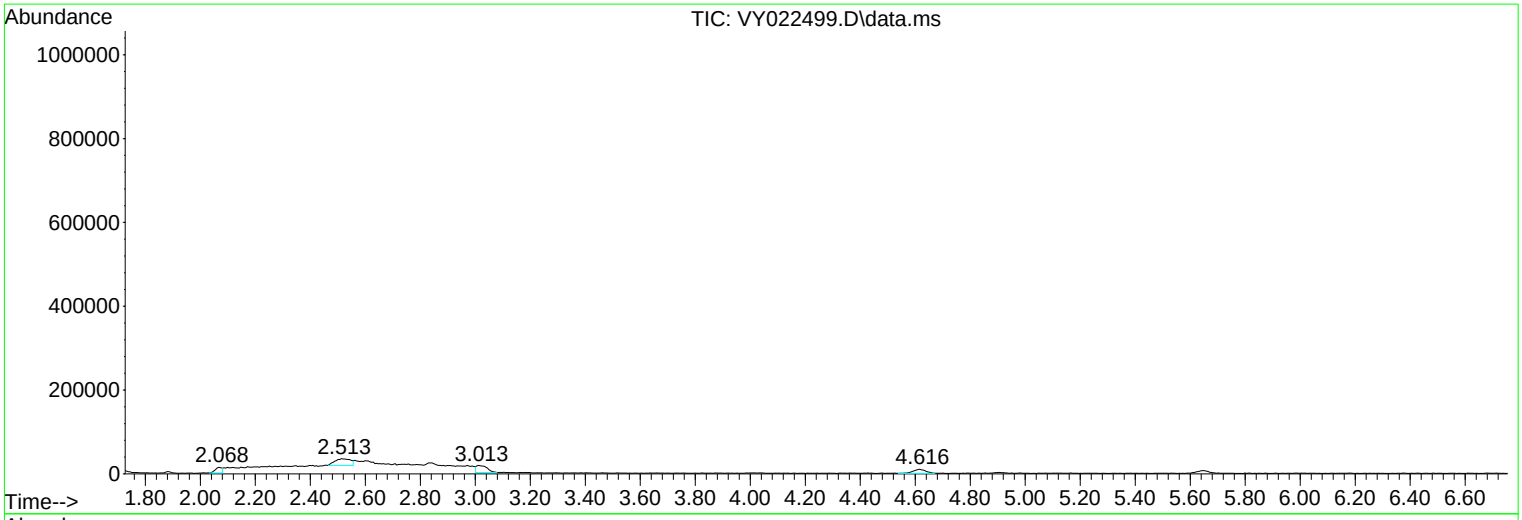
Sample Results: **VY022499.D**

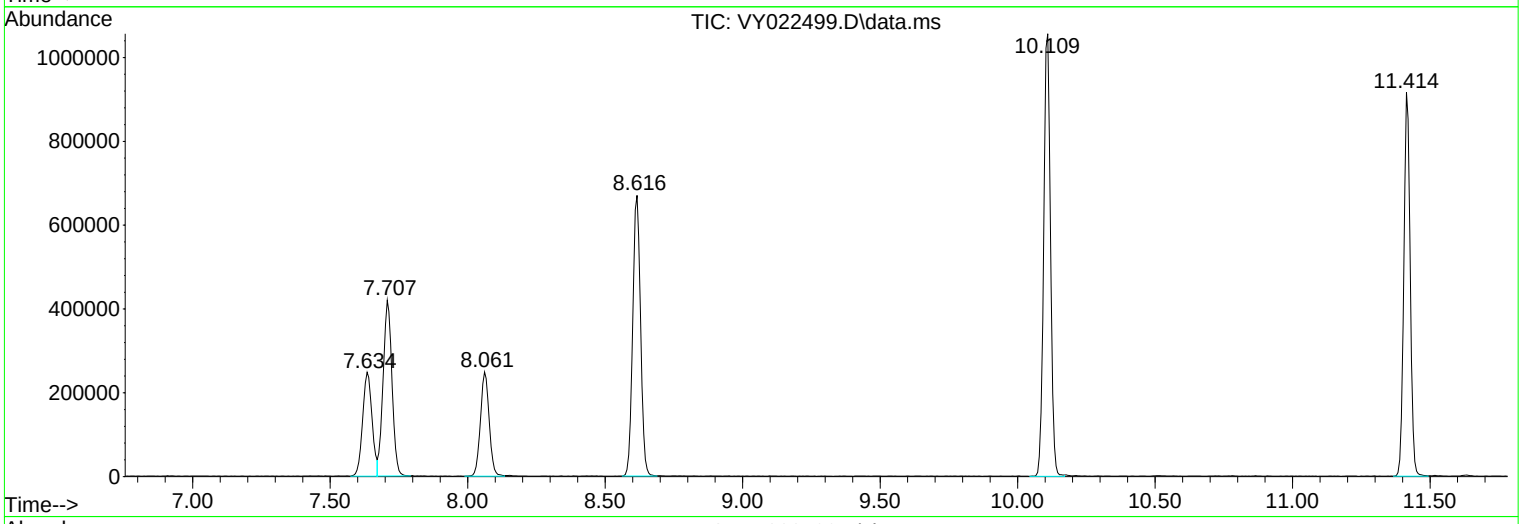
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022499.D
Acq On : 02 Jun 2025 16:00
Operator : SY/MD
Sample : VY0602SBL02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

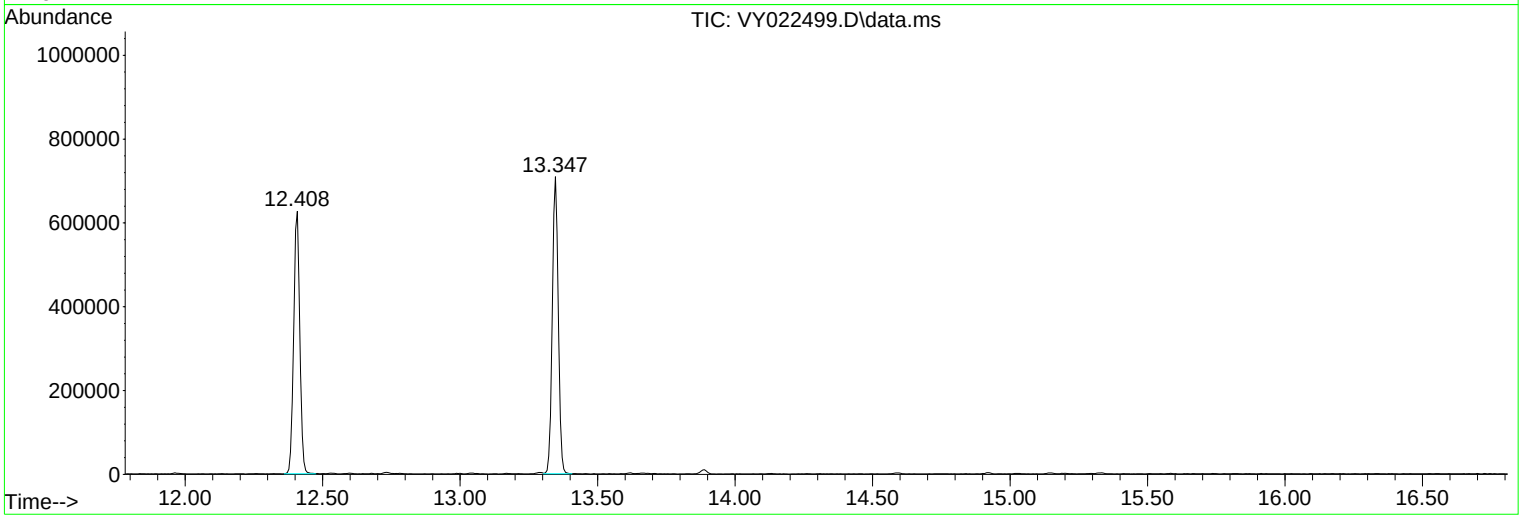
Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBL02

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







Library Search Compound Report

Sample Results: **VY022499.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022499.D
Acq On : 02 Jun 2025 16:00
Operator : SY/MD
Sample : VY0602SBL02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBL02

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022499.D
Acq On : 02 Jun 2025 16:00
Operator : SY/MD
Sample : VY0602SBL02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBL02

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022455.D
Acq On : 29 May 2025 09:27
Operator : SY/MD
Sample : VY0529SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 05:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/30/2025
Supervised By :Semsettin Yesilyurt 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	217849	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	376540	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	319754	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	148991	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	122757	53.498	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.000%			
35) Dibromofluoromethane	7.646	113	109319	49.575	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.140%			
50) Toluene-d8	10.115	98	446049	49.620	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.240%			
62) 4-Bromofluorobenzene	12.414	95	131041	48.192	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	46688	22.463	ug/l	98
3) Chloromethane	2.074	50	134444	26.297	ug/l	98
4) Vinyl Chloride	2.208	62	147122	23.688	ug/l	98
5) Bromomethane	2.598	94	157906	27.978	ug/l	96
6) Chloroethane	2.738	64	107679	26.532	ug/l	99
7) Trichlorofluoromethane	3.055	101	125536	23.956	ug/l	96
8) Diethyl Ether	3.464	74	27444	22.714	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.817	101	49269	21.431	ug/l	99
10) Methyl Iodide	4.019	142	50019	19.285	ug/l	99
11) Tert butyl alcohol	4.897	59	19308	119.376	ug/l	97
12) 1,1-Dichloroethene	3.799	96	48631	21.307	ug/l	96
13) Acrolein	3.665	56	24794	102.308	ug/l	99
14) Allyl chloride	4.391	41	75557	22.007	ug/l	99
15) Acrylonitrile	5.073	53	56731	116.484	ug/l	99
16) Acetone	3.885	43	42974	113.971	ug/l	94
17) Carbon Disulfide	4.116	76	152446	20.930	ug/l	99
18) Methyl Acetate	4.397	43	32296	22.865	ug/l	98
19) Methyl tert-butyl Ether	5.134	73	135345	22.336	ug/l	97
20) Methylene Chloride	4.628	84	55665	20.906	ug/l	99
21) trans-1,2-Dichloroethene	5.122	96	52156	20.931	ug/l	95
22) Diisopropyl ether	6.031	45	165331	21.818	ug/l	98
23) Vinyl Acetate	5.976	43	484839	111.434	ug/l	98
24) 1,1-Dichloroethane	5.921	63	96506	21.553	ug/l	98
25) 2-Butanone	6.908	43	71529	113.906	ug/l	100
26) 2,2-Dichloropropane	6.890	77	83691	20.642	ug/l	97
27) cis-1,2-Dichloroethene	6.902	96	61114	21.186	ug/l	98
28) Bromochloromethane	7.256	49	41852	22.384	ug/l	99
29) Tetrahydrofuran	7.280	42	49922	119.201	ug/l	98
30) Chloroform	7.433	83	96292	21.825	ug/l	96
31) Cyclohexane	7.713	56	91969	20.837	ug/l #	91
32) 1,1,1-Trichloroethane	7.628	97	85584	21.373	ug/l	99
36) 1,1-Dichloropropene	7.847	75	71878	20.541	ug/l	99
37) Ethyl Acetate	7.000	43	34104	22.933	ug/l	99
38) Carbon Tetrachloride	7.823	117	73360	20.125	ug/l	97
39) Methylcyclohexane	9.115	83	94592	20.336	ug/l	94
40) Benzene	8.091	78	216938	20.835	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022455.D
Acq On : 29 May 2025 09:27
Operator : SY/MD
Sample : VY0529SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 05:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/30/2025
Supervised By :Semsettin Yesilyurt 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	19377	21.468	ug/l		88
42) 1,2-Dichloroethane	8.164	62	59459	21.622	ug/l		98
43) Isopropyl Acetate	8.207	43	72871	22.425	ug/l	#	87
44) Trichloroethene	8.871	130	52748	20.493	ug/l		89
45) 1,2-Dichloropropane	9.146	63	51691	21.130	ug/l		94
46) Dibromomethane	9.243	93	28793	21.069	ug/l		99
47) Bromodichloromethane	9.432	83	73499	20.914	ug/l		95
48) Methyl methacrylate	9.231	41	34348	22.770	ug/l		99
49) 1,4-Dioxane	9.237	88	6938	459.638	ug/l		94
51) 4-Methyl-2-Pentanone	10.005	43	180359	112.489	ug/l		99
52) Toluene	10.176	92	130911	20.130	ug/l		98
53) t-1,3-Dichloropropene	10.402	75	69246	21.154	ug/l		100
54) cis-1,3-Dichloropropene	9.865	75	79429	20.650	ug/l		96
55) 1,1,2-Trichloroethane	10.578	97	36436	21.088	ug/l		98
56) Ethyl methacrylate	10.444	69	52736	21.269	ug/l		98
57) 1,3-Dichloropropane	10.725	76	66794	21.937	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.719	63	124474	100.727	ug/l		98
59) 2-Hexanone	10.767	43	119129	113.375	ug/l		99
60) Dibromochloromethane	10.920	129	46556	21.093	ug/l		98
61) 1,2-Dibromoethane	11.024	107	33658	21.298	ug/l		98
64) Tetrachloroethene	10.652	164	56988	20.927	ug/l		96
65) Chlorobenzene	11.450	112	137324	20.141	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.523	131	45717	19.790	ug/l		98
67) Ethyl Benzene	11.523	91	248860	19.657	ug/l		97
68) m/p-Xylenes	11.633	106	186984	38.956	ug/l		97
69) o-Xylene	11.962	106	89547	19.850	ug/l		99
70) Styrene	11.975	104	150631	20.053	ug/l		100
71) Bromoform	12.139	173	25838	21.354	ug/l	#	97
73) Isopropylbenzene	12.261	105	231788	19.767	ug/l		99
74) N-amyl acetate	12.078	43	62329	21.723	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	38907	21.059	ug/l		100
76) 1,2,3-Trichloropropane	12.560	75	30908m	20.710	ug/l		
77) Bromobenzene	12.535	156	50007	19.817	ug/l		97
78) n-propylbenzene	12.603	91	280089	19.904	ug/l		100
79) 2-Chlorotoluene	12.682	91	149938	19.683	ug/l		100
80) 1,3,5-Trimethylbenzene	12.743	105	183061	19.980	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.310	75	13668	20.711	ug/l		96
82) 4-Chlorotoluene	12.785	91	154200	19.655	ug/l		99
83) tert-Butylbenzene	13.005	119	166325	20.093	ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	179206	19.437	ug/l		100
85) sec-Butylbenzene	13.182	105	247028	20.122	ug/l		99
86) p-Isopropyltoluene	13.297	119	201014	19.608	ug/l		100
87) 1,3-Dichlorobenzene	13.291	146	98707	19.441	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	95858	19.745	ug/l		96
89) n-Butylbenzene	13.621	91	193195	20.100	ug/l		100
90) Hexachloroethane	13.883	117	41291	20.240	ug/l		94
91) 1,2-Dichlorobenzene	13.663	146	86130	20.310	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	6529	22.870	ug/l		88
93) 1,2,4-Trichlorobenzene	14.925	180	46466	19.764	ug/l		96
94) Hexachlorobutadiene	15.029	225	25447	20.624	ug/l		96
95) Naphthalene	15.151	128	90867	20.906	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	39732	20.606	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022455.D
Acq On : 29 May 2025 09:27
Operator : SY/MD
Sample : VY0529SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 05:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/30/2025
Supervised By :Semsettin Yesilyurt 05/30/2025

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

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

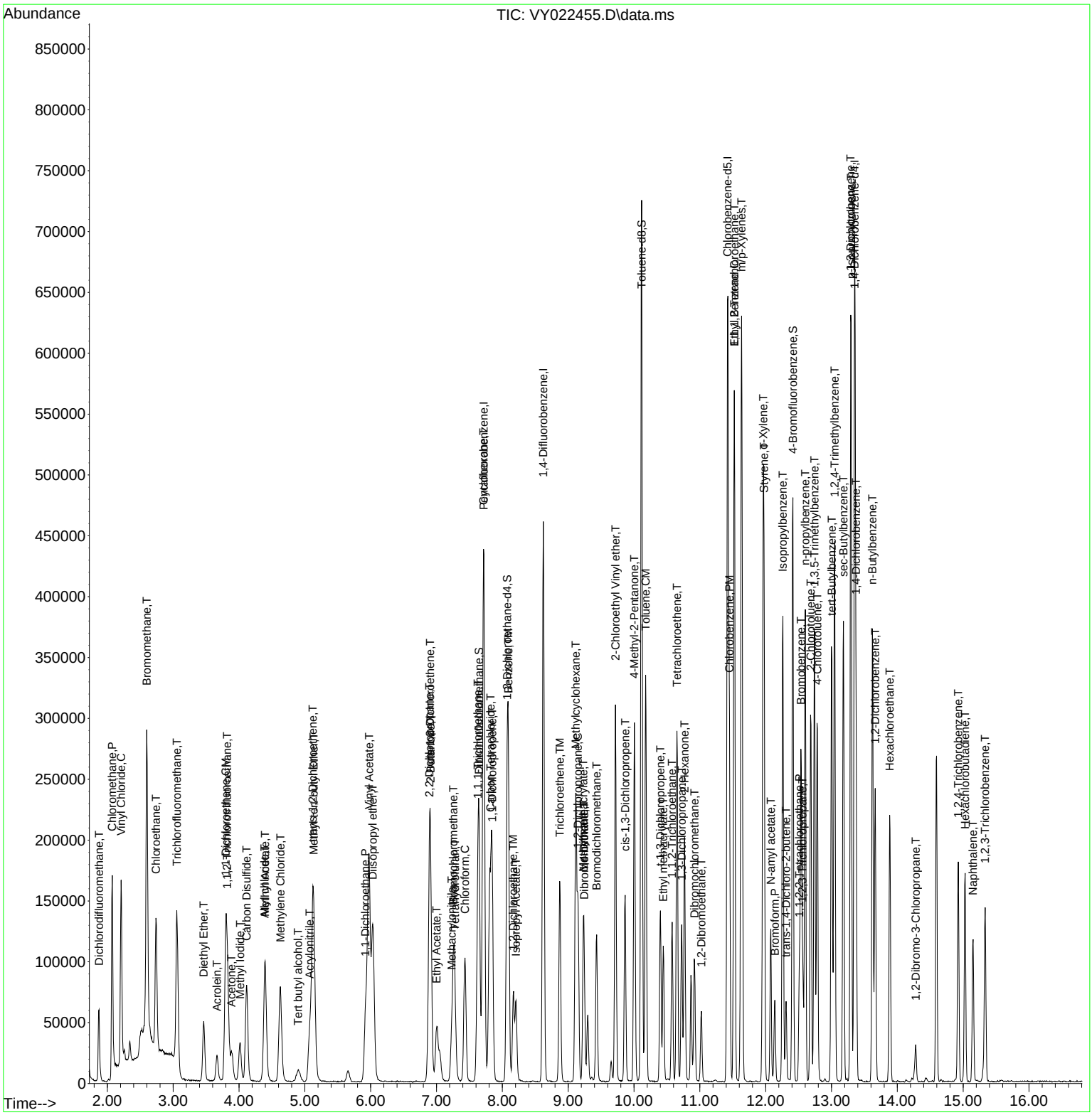
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022455.D
Acq On : 29 May 2025 09:27
Operator : SY/MD
Sample : VY0529SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 05:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/30/2025
Supervised By :Semsettin Yesilyurt 05/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022500.D
Acq On : 02 Jun 2025 16:24
Operator : SY/MD
Sample : VY0602SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 04:06:31 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	201633	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	342745	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	291387	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	136847	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	114608	50.821	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.640%			
35) Dibromofluoromethane	7.634	113	105595	51.616	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.240%			
50) Toluene-d8	10.109	98	428859	51.881	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.760%			
62) 4-Bromofluorobenzene	12.408	95	124988	50.748	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	39935	22.122	ug/l	96
3) Chloromethane	2.068	50	101674	19.065	ug/l	96
4) Vinyl Chloride	2.202	62	126839	20.502	ug/l	99
5) Bromomethane	2.592	94	128977	21.751	ug/l	99
6) Chloroethane	2.733	64	88378	20.812	ug/l	94
7) Trichlorofluoromethane	3.050	101	116559	22.193	ug/l	95
8) Diethyl Ether	3.458	74	24924	21.072	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.818	101	45942	20.769	ug/l	99
10) Methyl Iodide	4.007	142	40495	16.916	ug/l	99
11) Tert butyl alcohol	4.872	59	16403	101.837	ug/l #	94
12) 1,1-Dichloroethene	3.787	96	43373	20.513	ug/l	97
13) Acrolein	3.653	56	21372	106.469	ug/l	99
14) Allyl chloride	4.385	41	67622	20.372	ug/l	98
15) Acrylonitrile	5.067	53	51228	102.265	ug/l	100
16) Acetone	3.873	43	39865	87.044	ug/l	100
17) Carbon Disulfide	4.110	76	137329	20.286	ug/l	99
18) Methyl Acetate	4.391	43	29232	21.554	ug/l	96
19) Methyl tert-butyl Ether	5.122	73	122005	20.486	ug/l	96
20) Methylene Chloride	4.616	84	49679	19.096	ug/l	93
21) trans-1,2-Dichloroethene	5.110	96	49459	20.900	ug/l	90
22) Diisopropyl ether	6.019	45	154177	20.867	ug/l	98
23) Vinyl Acetate	5.958	43	438115	100.183	ug/l	96
24) 1,1-Dichloroethane	5.921	63	89731	20.615	ug/l	100
25) 2-Butanone	6.896	43	63810	96.591	ug/l	99
26) 2,2-Dichloropropane	6.884	77	78015	20.285	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	56961	20.824	ug/l	97
28) Bromochloromethane	7.244	49	38081	20.070	ug/l	99
29) Tetrahydrofuran	7.268	42	42953	100.809	ug/l	99
30) Chloroform	7.427	83	90548	21.002	ug/l	92
31) Cyclohexane	7.701	56	87597	20.214	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	81457	21.283	ug/l	99
36) 1,1-Dichloropropene	7.835	75	67552	20.345	ug/l	100
37) Ethyl Acetate	6.988	43	30209	20.402	ug/l	99
38) Carbon Tetrachloride	7.817	117	68070	19.984	ug/l	99
39) Methylcyclohexane	9.109	83	91254	20.451	ug/l	98
40) Benzene	8.079	78	201994	20.597	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022500.D
Acq On : 02 Jun 2025 16:24
Operator : SY/MD
Sample : VY0602SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 04:06:31 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	15554	17.984	ug/l	#	85
42) 1,2-Dichloroethane	8.158	62	55244	20.631	ug/l		100
43) Isopropyl Acetate	8.201	43	63478	19.850	ug/l		99
44) Trichloroethene	8.866	130	49225	20.538	ug/l		98
45) 1,2-Dichloropropane	9.140	63	48255	20.820	ug/l		98
46) Dibromomethane	9.231	93	26738	20.506	ug/l		98
47) Bromodichloromethane	9.426	83	69412	20.994	ug/l		98
48) Methyl methacrylate	9.219	41	29530	19.675	ug/l		98
49) 1,4-Dioxane	9.237	88	5855	379.032	ug/l	#	92
51) 4-Methyl-2-Pentanone	10.000	43	157411	98.730	ug/l		98
52) Toluene	10.170	92	123267	20.002	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	61460	19.840	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	73669	20.429	ug/l		96
55) 1,1,2-Trichloroethane	10.573	97	33530	20.167	ug/l		95
56) Ethyl methacrylate	10.438	69	47531	19.779	ug/l		100
57) 1,3-Dichloropropane	10.719	76	60889	20.662	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	105730	96.908	ug/l		100
59) 2-Hexanone	10.762	43	102819	96.426	ug/l		99
60) Dibromochloromethane	10.914	129	42049	19.901	ug/l		98
61) 1,2-Dibromoethane	11.018	107	31360	20.694	ug/l		99
64) Tetrachloroethene	10.646	164	52041	20.762	ug/l		98
65) Chlorobenzene	11.444	112	130814	20.287	ug/l		94
66) 1,1,1,2-Tetrachloroethane	11.518	131	42902	19.751	ug/l		99
67) Ethyl Benzene	11.518	91	236616	19.784	ug/l		98
68) m/p-Xylenes	11.627	106	179501	39.592	ug/l		99
69) o-Xylene	11.957	106	84353	19.844	ug/l		99
70) Styrene	11.969	104	136180	19.381	ug/l		98
71) Bromoform	12.133	173	22650	19.595	ug/l	#	98
73) Isopropylbenzene	12.255	105	220709	19.645	ug/l		98
74) N-amyl acetate	12.072	43	53050	18.714	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	37051	20.093	ug/l		95
76) 1,2,3-Trichloropropane	12.554	75	27956m	17.857	ug/l		
77) Bromobenzene	12.530	156	45984	19.395	ug/l		95
78) n-propylbenzene	12.597	91	271685	19.799	ug/l		99
79) 2-Chlorotoluene	12.682	91	143224	19.693	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	172628	19.571	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	12535	19.335	ug/l		96
82) 4-Chlorotoluene	12.780	91	147519	19.662	ug/l		100
83) tert-Butylbenzene	12.999	119	159035	20.089	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	172573	19.562	ug/l		100
85) sec-Butylbenzene	13.176	105	238665	19.684	ug/l		99
86) p-Isopropyltoluene	13.292	119	195572	19.569	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	92264	19.207	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	91384	19.614	ug/l		99
89) n-Butylbenzene	13.615	91	187105	19.733	ug/l		99
90) Hexachloroethane	13.883	117	40235	20.679	ug/l		95
91) 1,2-Dichlorobenzene	13.657	146	81675	20.026	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5636	20.993	ug/l		94
93) 1,2,4-Trichlorobenzene	14.919	180	46082	20.717	ug/l		98
94) Hexachlorobutadiene	15.023	225	26078	21.241	ug/l		97
95) Naphthalene	15.145	128	86538	20.273	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	39996	20.981	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022500.D
Acq On : 02 Jun 2025 16:24
Operator : SY/MD
Sample : VY0602SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 04:06:31 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025

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

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

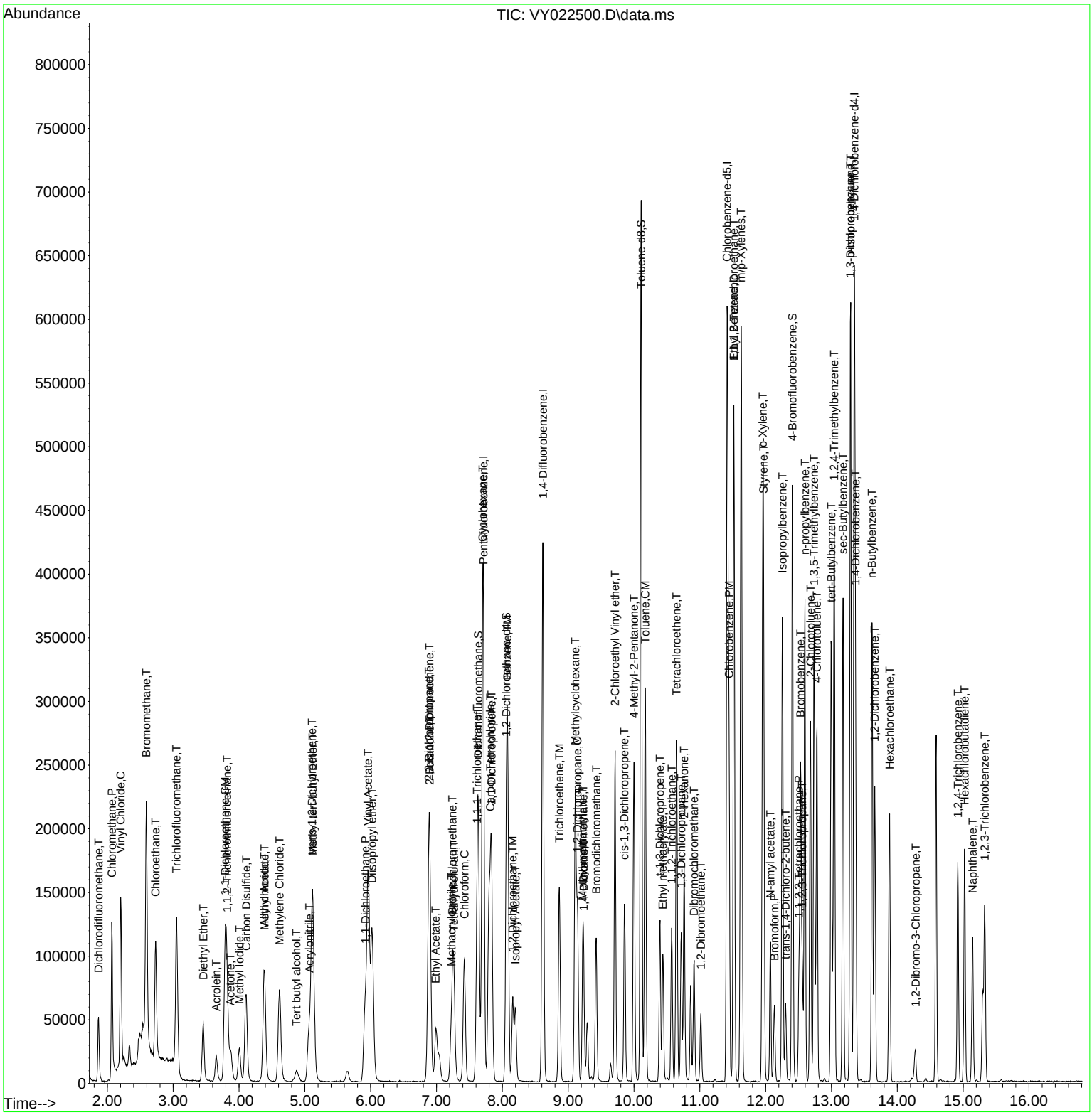
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
Data File : VY022500.D
Acq On : 02 Jun 2025 16:24
Operator : SY/MD
Sample : VY0602SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 04:06:31 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0602SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022456.D
Acq On : 29 May 2025 09:50
Operator : SY/MD
Sample : VY0529SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 05:30:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/30/2025
Supervised By :Semsettin Yesilyurt 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	205776	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	359832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	305847	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	140548	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	119518	55.142	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.280%			
35) Dibromofluoromethane	7.640	113	110555	52.463	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.920%			
50) Toluene-d8	10.109	98	443079	51.578	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.160%			
62) 4-Bromofluorobenzene	12.408	95	129686	49.908	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.820%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	45950	23.405	ug/l	96
3) Chloromethane	2.068	50	127635	26.430	ug/l	99
4) Vinyl Chloride	2.208	62	143639	24.484	ug/l	98
5) Bromomethane	2.598	94	153498	28.792	ug/l	96
6) Chloroethane	2.739	64	103463	26.988	ug/l	99
7) Trichlorofluoromethane	3.050	101	125182	25.290	ug/l	97
8) Diethyl Ether	3.458	74	27089	23.735	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	46248	21.297	ug/l	100
10) Methyl Iodide	4.007	142	52695	21.509	ug/l	98
11) Tert butyl alcohol	4.897	59	18285	119.684	ug/l	99
12) 1,1-Dichloroethene	3.793	96	47557	22.059	ug/l	96
13) Acrolein	3.659	56	23667	103.387	ug/l	99
14) Allyl chloride	4.391	41	72904	22.480	ug/l	98
15) Acrylonitrile	5.068	53	53746	116.830	ug/l	100
16) Acetone	3.885	43	41379	116.179	ug/l	96
17) Carbon Disulfide	4.110	76	148882	21.639	ug/l	99
18) Methyl Acetate	4.391	43	33619	25.198	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	131747	23.017	ug/l	99
20) Methylene Chloride	4.629	84	53789	21.387	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	51482	21.873	ug/l	97
22) Diisopropyl ether	6.025	45	161945	22.626	ug/l	98
23) Vinyl Acetate	5.970	43	456630	111.108	ug/l	98
24) 1,1-Dichloroethane	5.921	63	96288	22.766	ug/l	99
25) 2-Butanone	6.903	43	68030	114.690	ug/l	99
26) 2,2-Dichloropropane	6.890	77	81729	21.341	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	59568	21.861	ug/l	99
28) Bromochloromethane	7.256	49	38824	21.983	ug/l	100
29) Tetrahydrofuran	7.274	42	46439	117.391	ug/l	98
30) Chloroform	7.427	83	94926	22.777	ug/l	98
31) Cyclohexane	7.707	56	86206	20.677	ug/l #	93
32) 1,1,1-Trichloroethane	7.622	97	81565	21.565	ug/l	98
36) 1,1-Dichloropropene	7.841	75	69669	20.835	ug/l	100
37) Ethyl Acetate	6.994	43	31627	22.255	ug/l	96
38) Carbon Tetrachloride	7.823	117	71355	20.484	ug/l	94
39) Methylcyclohexane	9.116	83	88788	19.975	ug/l	97
40) Benzene	8.085	78	212449	21.352	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022456.D
Acq On : 29 May 2025 09:50
Operator : SY/MD
Sample : VY0529SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 05:30:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/30/2025
Supervised By :Semsettin Yesilyurt 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	17862	20.709	ug/l		89
42) 1,2-Dichloroethane	8.165	62	57566	21.906	ug/l		100
43) Isopropyl Acetate	8.201	43	68235	21.973	ug/l	#	87
44) Trichloroethene	8.872	130	51499	20.937	ug/l		98
45) 1,2-Dichloropropane	9.146	63	51267	21.930	ug/l		96
46) Dibromomethane	9.238	93	28152	21.556	ug/l		98
47) Bromodichloromethane	9.427	83	72157	21.486	ug/l		99
48) Methyl methacrylate	9.225	41	31618	21.934	ug/l		100
49) 1,4-Dioxane	9.238	88	6628	459.490	ug/l		99
51) 4-Methyl-2-Pentanone	10.000	43	169643	110.718	ug/l		100
52) Toluene	10.176	92	127807	20.565	ug/l		99
53) t-1,3-Dichloropropene	10.402	75	66189	21.159	ug/l		96
54) cis-1,3-Dichloropropene	9.859	75	77958	21.209	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	35077	21.244	ug/l		95
56) Ethyl methacrylate	10.445	69	50615	21.361	ug/l		97
57) 1,3-Dichloropropane	10.719	76	62576	21.506	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	124329	105.282	ug/l		98
59) 2-Hexanone	10.768	43	112377	111.915	ug/l		100
60) Dibromochloromethane	10.914	129	44484	21.090	ug/l		98
61) 1,2-Dibromoethane	11.018	107	32567	21.565	ug/l		100
64) Tetrachloroethene	10.652	164	54451	20.904	ug/l		97
65) Chlorobenzene	11.444	112	136170	20.880	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	45682	20.674	ug/l		98
67) Ethyl Benzene	11.524	91	245127	20.243	ug/l		99
68) m/p-Xylenes	11.633	106	183812	40.037	ug/l		100
69) o-Xylene	11.957	106	87779	20.343	ug/l		100
70) Styrene	11.975	104	146742	20.424	ug/l		100
71) Bromoform	12.133	173	24149	20.865	ug/l	#	97
73) Isopropylbenzene	12.255	105	226043	20.435	ug/l		99
74) N-amyl acetate	12.072	43	58739	21.701	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	37969	21.786	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	26369m	18.730	ug/l		
77) Bromobenzene	12.536	156	48852	20.522	ug/l		96
78) n-propylbenzene	12.597	91	274435	20.673	ug/l		98
79) 2-Chlorotoluene	12.682	91	148607	20.680	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	179270	20.742	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	13230	21.252	ug/l		99
82) 4-Chlorotoluene	12.780	91	152410	20.594	ug/l		99
83) tert-Butylbenzene	12.999	119	157690	20.194	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	178877	20.566	ug/l		100
85) sec-Butylbenzene	13.176	105	238715	20.613	ug/l		100
86) p-Isopropyltoluene	13.292	119	196000	20.268	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	97966	20.454	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	97065	21.194	ug/l		99
89) n-Butylbenzene	13.621	91	188466	20.785	ug/l		100
90) Hexachloroethane	13.883	117	40139	20.858	ug/l		96
91) 1,2-Dichlorobenzene	13.657	146	84578	21.142	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	6003	22.291	ug/l		94
93) 1,2,4-Trichlorobenzene	14.919	180	48125	21.699	ug/l		97
94) Hexachlorobutadiene	15.023	225	24884	21.380	ug/l		97
95) Naphthalene	15.145	128	91603	22.342	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	39958	21.968	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022456.D
Acq On : 29 May 2025 09:50
Operator : SY/MD
Sample : VY0529SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 05:30:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/30/2025
Supervised By :Semsettin Yesilyurt 05/30/2025

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

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

Quantitation Report (QT Reviewed)

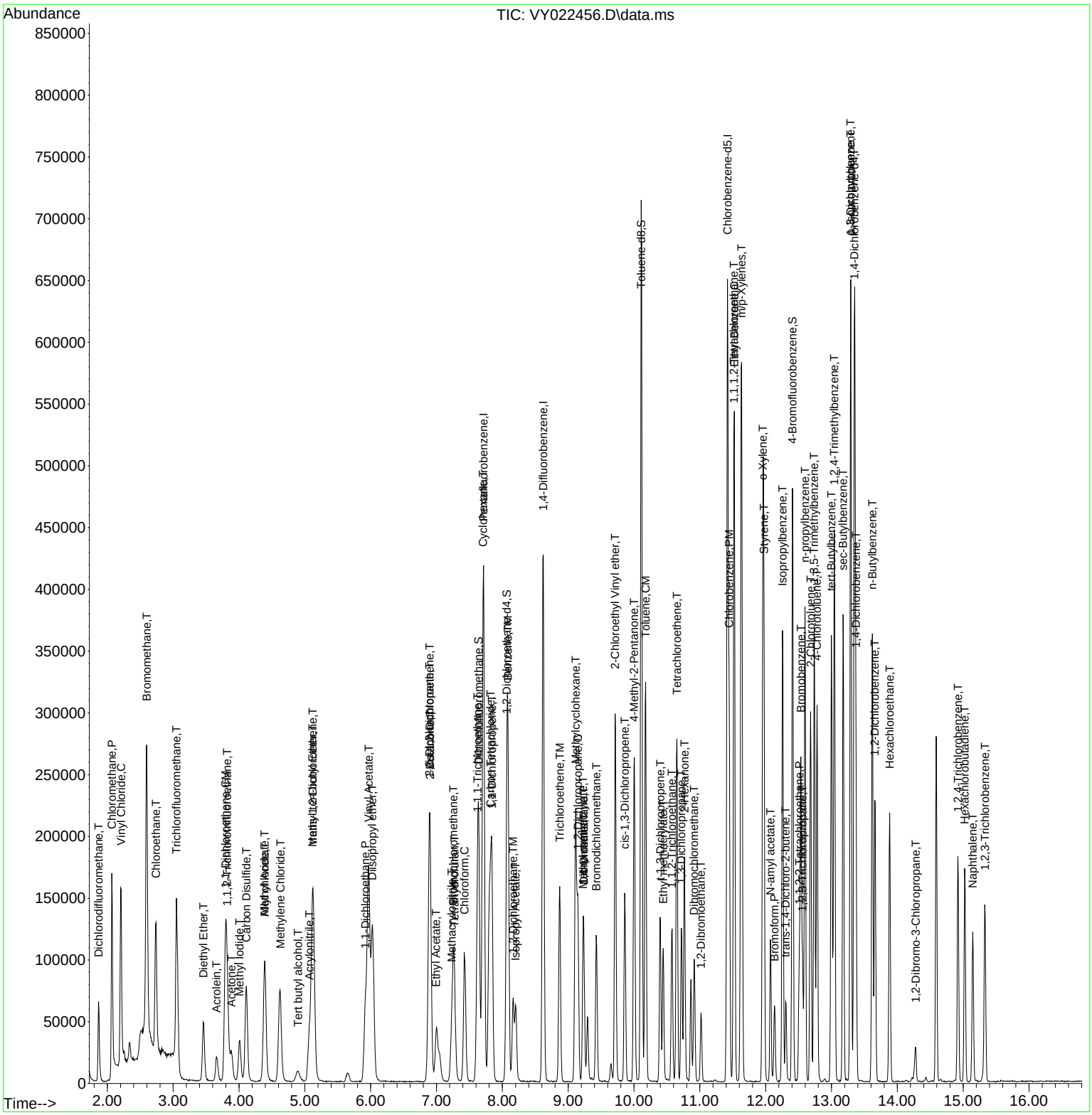
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
Data File : VY022456.D
Acq On : 29 May 2025 09:50
Operator : SY/MD
Sample : VY0529SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 05:30:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0529SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/30/2025
Supervised By :Semsettin Yesilyurt 05/30/2025



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

Manual Integration Report

Sequence:	VY052725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022421.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:29 PM	MMDadoda	5/28/2025 12:56:04 PM	Peak Integrated by Software
VSTDICC005	VY022421.D	Methacrylonitrile	Amit	5/28/2025 12:55:29 PM	MMDadoda	5/28/2025 12:56:04 PM	Peak Integrated by Software
VSTDICC005	VY022421.D	Tert butyl alcohol	Amit	5/28/2025 12:55:29 PM	MMDadoda	5/28/2025 12:56:04 PM	Peak Integrated by Software
VSTDICC010	VY022422.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:43 PM	MMDadoda	5/28/2025 12:56:10 PM	Peak Integrated by Software
VSTDICC010	VY022422.D	Methacrylonitrile	Amit	5/28/2025 12:55:43 PM	MMDadoda	5/28/2025 12:56:10 PM	Peak Integrated by Software
VSTDICC020	VY022423.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:47 PM	MMDadoda	5/28/2025 12:56:14 PM	Peak Integrated by Software
VSTDICC020	VY022423.D	Methacrylonitrile	Amit	5/28/2025 12:55:47 PM	MMDadoda	5/28/2025 12:56:14 PM	Peak Integrated by Software
VSTDICCC050	VY022424.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:51 PM	MMDadoda	5/28/2025 12:56:29 PM	Peak Integrated by Software
VSTDICC100	VY022425.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:55 PM	MMDadoda	5/28/2025 12:56:33 PM	Peak Integrated by Software
VSTDICC150	VY022426.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:59 PM	MMDadoda	5/28/2025 12:56:36 PM	Peak Integrated by Software
VSTDICC150	VY022426.D	Methacrylonitrile	Amit	5/28/2025 12:55:59 PM	MMDadoda	5/28/2025 12:56:36 PM	Peak Integrated by Software
VSTDICV050	VY022428.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:56:03 PM	MMDadoda	5/28/2025 12:56:40 PM	Peak Integrated by Software
VSTDICV050	VY022428.D	Methacrylonitrile	Amit	5/28/2025 12:56:03 PM	MMDadoda	5/28/2025 12:56:40 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY052725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022438.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:56:20 PM	MMDadoda	5/28/2025 12:56:54 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY052925	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022453.D	1,2,3-Trichloropropane	MMDadoda	5/30/2025 12:21:39 PM	Sam	5/30/2025 12:27:00 PM	Peak Integrated by Software
VSTDCCC050	VY022453.D	Methacrylonitrile	MMDadoda	5/30/2025 12:21:39 PM	Sam	5/30/2025 12:27:00 PM	Peak Integrated by Software
VY0529SBS01	VY022455.D	1,2,3-Trichloropropane	MMDadoda	5/30/2025 12:21:40 PM	Sam	5/30/2025 12:27:01 PM	Peak Integrated by Software
VY0529SBSD01	VY022456.D	1,2,3-Trichloropropane	MMDadoda	5/30/2025 12:21:44 PM	Sam	5/30/2025 12:27:03 PM	Peak Integrated by Software
VSTDCCC050	VY022470.D	1,2,3-Trichloropropane	MMDadoda	5/30/2025 12:21:50 PM	Sam	5/30/2025 12:27:07 PM	Peak Integrated by Software
VSTDCCC050	VY022470.D	Methacrylonitrile	MMDadoda	5/30/2025 12:21:50 PM	Sam	5/30/2025 12:27:07 PM	Peak Integrated by Software

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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
VY0602SBS01	VY022500.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:26:52 AM	MMDadoda	6/3/2025 2:38:26 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vy060225	Instrument	MSVOA_y

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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052725

Review By	Amit Patel	Review On	5/28/2025 12:56:58 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/28/2025 12:57:05 PM				
SubDirectory	VY052725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y052725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134020
Initial Calibration Stds	VP134021,VP134022,VP134024,VP134026,VP134028,VP134029
CCC	VP134031
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134030
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022420.D	27 May 2025 08:20	SY/MD	Ok
2	VSTDICC005	VY022421.D	27 May 2025 08:50	SY/MD	Ok,M
3	VSTDICC010	VY022422.D	27 May 2025 09:14	SY/MD	Ok,M
4	VSTDICC020	VY022423.D	27 May 2025 09:36	SY/MD	Ok,M
5	VSTDICCC050	VY022424.D	27 May 2025 09:59	SY/MD	Ok,M
6	VSTDICC100	VY022425.D	27 May 2025 10:22	SY/MD	Ok,M
7	VSTDICC150	VY022426.D	27 May 2025 10:44	SY/MD	Ok,M
8	VIBLK	VY022427.D	27 May 2025 11:20	SY/MD	Ok
9	VSTDICV050	VY022428.D	27 May 2025 11:56	SY/MD	Ok,M
10	VY0527SBL01	VY022429.D	27 May 2025 13:12	SY/MD	Ok
11	VY0527SBS01	VY022430.D	27 May 2025 13:35	SY/MD	Ok,M
12	VY0527SBSD01	VY022431.D	27 May 2025 13:57	SY/MD	Ok,M
13	Q2118-11RE	VY022432.D	27 May 2025 14:27	SY/MD	Confirms
14	Q2113-01	VY022433.D	27 May 2025 14:51	SY/MD	Not Ok
15	Q2128-03	VY022434.D	27 May 2025 15:14	SY/MD	Ok
16	Q2127-11RE	VY022435.D	27 May 2025 15:38	SY/MD	Confirms
17	Q2130-01	VY022436.D	27 May 2025 16:01	SY/MD	Ok
18	VIBLK	VY022437.D	27 May 2025 16:24	SY/MD	Ok
19	VSTDCCC050	VY022438.D	27 May 2025 17:10	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052925

Review By	Mahesh Dadoda	Review On	5/30/2025 12:21:56 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	5/30/2025 12:28:04 PM				
SubDirectory	VY052925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y052725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134049
Initial Calibration Stds	
CCC	VP134050,VP134051
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022452.D	29 May 2025 07:54	SY/MD	Ok
2	VSTDCCC050	VY022453.D	29 May 2025 08:23	SY/MD	Ok,M
3	VY0529SBL01	VY022454.D	29 May 2025 08:56	SY/MD	Ok
4	VY0529SBS01	VY022455.D	29 May 2025 09:27	SY/MD	Ok,M
5	VY0529SBSD01	VY022456.D	29 May 2025 09:50	SY/MD	Ok,M
6	Q2126-03	VY022457.D	29 May 2025 10:53	SY/MD	ReRun
7	Q2126-03	VY022458.D	29 May 2025 11:38	SY/MD	ReRun
8	Q2147-02	VY022459.D	29 May 2025 12:02	SY/MD	Ok
9	Q2150-01	VY022460.D	29 May 2025 12:25	SY/MD	Ok
10	Q2150-02	VY022461.D	29 May 2025 12:49	SY/MD	ReRun
11	Q2150-03	VY022462.D	29 May 2025 13:12	SY/MD	Ok
12	Q2150-04	VY022463.D	29 May 2025 13:36	SY/MD	Ok
13	Q2150-05	VY022464.D	29 May 2025 13:59	SY/MD	ReRun
14	Q2150-06	VY022465.D	29 May 2025 14:22	SY/MD	Ok
15	Q2150-07	VY022466.D	29 May 2025 14:46	SY/MD	Ok
16	Q2150-08	VY022467.D	29 May 2025 15:09	SY/MD	Ok
17	Q2150-09	VY022468.D	29 May 2025 15:33	SY/MD	Ok
18	Q2150-10	VY022469.D	29 May 2025 15:56	SY/MD	Ok
19	VSTDCCC050	VY022470.D	29 May 2025 17:04	SY/MD	Ok,M

M : Manual Integration

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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	

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

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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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052725

Review By	Amit Patel	Review On	5/28/2025 12:56:58 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/28/2025 12:57:05 PM		
SubDirectory	VY052725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y052725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134020
Initial Calibration Stds	VP134021,VP134022,VP134024,VP134026,VP134028,VP134029
CCC	VP134031
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134030
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022420.D	27 May 2025 08:20		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY022421.D	27 May 2025 08:50		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY022422.D	27 May 2025 09:14		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY022423.D	27 May 2025 09:36		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY022424.D	27 May 2025 09:59		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY022425.D	27 May 2025 10:22		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY022426.D	27 May 2025 10:44		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022427.D	27 May 2025 11:20		SY/MD	Ok
9	VSTDICV050	ICVVY052725	VY022428.D	27 May 2025 11:56		SY/MD	Ok,M
10	VY0527SBL01	VY0527SBL01	VY022429.D	27 May 2025 13:12		SY/MD	Ok
11	VY0527SBS01	VY0527SBS01	VY022430.D	27 May 2025 13:35		SY/MD	Ok,M
12	VY0527SBSD01	VY0527SBSD01	VY022431.D	27 May 2025 13:57		SY/MD	Ok,M
13	Q2118-11RE	BP-VPB-182-GW-500-5	VY022432.D	27 May 2025 14:27	vial-B Surrogate Fail	SY/MD	Confirms
14	Q2113-01	HD-02-05222025	VY022433.D	27 May 2025 14:51	vial-B not purged	SY/MD	Not Ok
15	Q2128-03	TP03-MHM-VOC	VY022434.D	27 May 2025 15:14	vial-A	SY/MD	Ok
16	Q2127-11RE	COMP-2RE	VY022435.D	27 May 2025 15:38	vial-B Internal Standard Fail	SY/MD	Confirms
17	Q2130-01	TP-3	VY022436.D	27 May 2025 16:01	vial-A	SY/MD	Ok
18	VIBLK	VIBLK	VY022437.D	27 May 2025 16:24		SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052725

Review By	Amit Patel	Review On	5/28/2025 12:56:58 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/28/2025 12:57:05 PM		
SubDirectory	VY052725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y052725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134020
Initial Calibration Stds	VP134021,VP134022,VP134024,VP134026,VP134028,VP134029
CCC	VP134031
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134030
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VY022438.D	27 May 2025 17:10		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052925

Review By	Mahesh Dadoda	Review On	5/30/2025 12:21:56 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/30/2025 12:28:04 PM		
SubDirectory	VY052925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y052725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134049
Initial Calibration Stds	
CCC	VP134050,VP134051
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	VY022452.D	29 May 2025 07:54		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022453.D	29 May 2025 08:23	CCAL failed low for comp. #13	SY/MD	Ok,M
3	VY0529SBL01	VY0529SBL01	VY022454.D	29 May 2025 08:56		SY/MD	Ok
4	VY0529SBS01	VY0529SBS01	VY022455.D	29 May 2025 09:27		SY/MD	Ok,M
5	VY0529SBSD01	VY0529SBSD01	VY022456.D	29 May 2025 09:50		SY/MD	Ok,M
6	Q2126-03	MDL-SOIL-03-QT2-202	VY022457.D	29 May 2025 10:53	CCAL failed low	SY/MD	ReRun
7	Q2126-03	MDL-SOIL-03-QT2-202	VY022458.D	29 May 2025 11:38	CCAL failed low	SY/MD	ReRun
8	Q2147-02	VOC	VY022459.D	29 May 2025 12:02	vial-A Internal Standard Fail;	SY/MD	Ok
9	Q2150-01	TP-44	VY022460.D	29 May 2025 12:25	vial-A	SY/MD	Ok
10	Q2150-02	TP-42	VY022461.D	29 May 2025 12:49	vial-A Internal Standard Fail	SY/MD	ReRun
11	Q2150-03	TP-39	VY022462.D	29 May 2025 13:12	vial-A	SY/MD	Ok
12	Q2150-04	TP-48	VY022463.D	29 May 2025 13:36	vial-A	SY/MD	Ok
13	Q2150-05	TP-47	VY022464.D	29 May 2025 13:59	vial-A Internal Standard Fail; Surrogate fail	SY/MD	ReRun
14	Q2150-06	TP-50	VY022465.D	29 May 2025 14:22	vial-A	SY/MD	Ok
15	Q2150-07	TP-51	VY022466.D	29 May 2025 14:46	vial-A	SY/MD	Ok
16	Q2150-08	TP-52	VY022467.D	29 May 2025 15:09	vial-A	SY/MD	Ok
17	Q2150-09	TP-54	VY022468.D	29 May 2025 15:33	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052925

Review By	Mahesh Dadoda	Review On	5/30/2025 12:21:56 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/30/2025 12:28:04 PM		
SubDirectory	VY052925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y052725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134049
Initial Calibration Stds	
CCC	VP134050,VP134051
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2150-10	TP-53	VY022469.D	29 May 2025 15:56	vial-A	SY/MD	Ok
19	VSTDCCC050	VSTDCCC050EC	VY022470.D	29 May 2025 17:04		SY/MD	Ok,M

M : Manual Integration

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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	

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

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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	

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

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

LAB CHRONICLE

OrderID:	Q2150	**OrderDate:**	5/28/2025 3:53:00 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
Q2150-01	**TP-44**	**SOIL**			**05/27/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			05/29/25	
Q2150-02	**TP-42**	**SOIL**			**05/27/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			06/02/25	
Q2150-03	**TP-39**	**SOIL**			**05/27/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			05/29/25	
Q2150-04	**TP-48**	**SOIL**			**05/27/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			05/29/25	
Q2150-05	**TP-47**	**SOIL**			**05/27/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			05/29/25	
Q2150-05RE	**TP-47RE**	**SOIL**			**05/27/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			06/02/25	
Q2150-06	**TP-50**	**SOIL**			**05/27/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			05/29/25	
Q2150-07	**TP-51**	**SOIL**			**05/27/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			05/29/25	
Q2150-08	**TP-52**	**SOIL**			**05/28/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			05/29/25	
Q2150-09	**TP-54**	**SOIL**			**05/28/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			05/29/25	
Q2150-10	**TP-53**	**SOIL**			**05/28/25**			**05/28/25**
			VOC-TCLVOA-10	8260D			05/29/25	