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

Hit Summary Sheet
SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**B-163-SB01**								
Q1415-01	B-163-SB01	SOIL	Acetone		13.5	J	6.80	27.4	ug/Kg
			Total Voc :		13.5				
Q1415-01	B-163-SB01	SOIL	Ethanol	*	10.9	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Diethyl carbonate	*	450	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Ethyl Acetate	*	1.40	J	1.20	5.50	ug/Kg
			Total Tics :		462				
			Total Concentration:		476				
Client ID:	**B-172-SB01**								
Q1415-02	B-172-SB01	SOIL	Acetone		70.4		5.90	23.7	ug/Kg
Q1415-02	B-172-SB01	SOIL	Methyl Acetate		2.60	J	1.70	4.70	ug/Kg
			Total Voc :		73.0				
Q1415-02	B-172-SB01	SOIL	Butane, 2-methyl-	*	16.4	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Cyclopentane	*	110	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Tert butyl alcohol	*	61.1	J	14.8	23.7	ug/Kg
			Total Tics :		188				
			Total Concentration:		261				
Client ID:	**B-163-SB02**								
Q1415-03	B-163-SB02	SOIL	Acetone		64.7		5.90	23.6	ug/Kg
Q1415-03	B-163-SB02	SOIL	2-Butanone		17.9	J	5.40	23.6	ug/Kg
			Total Voc :		82.6				
Q1415-03	B-163-SB02	SOIL	unknown11.938	*	6.20	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Diethyl carbonate	*	34.2	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Dodecane	*	17.2	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Decane	*	21.5	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Tridecane	*	9.90	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Undecane	*	22.2	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Cyclohexane, butyl-	*	6.00	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Naphthalene, decahydro-2-metl	*	5.80	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Undecane, 2,6-dimethyl-	*	6.60	J	0	0	ug/Kg
			Total Tics :		130				
			Total Concentration:		212				
Client ID:	**B-163-SB02RE**								
Q1415-03RE	B-163-SB02RE	SOIL	Acetone		490		10.5	42.1	ug/Kg
Q1415-03RE	B-163-SB02RE	SOIL	Methylene Chloride		15.6	J	5.70	16.8	ug/Kg
Q1415-03RE	B-163-SB02RE	SOIL	2-Butanone		130		9.60	42.1	ug/Kg
Q1415-03RE	B-163-SB02RE	SOIL	m/p-Xylenes		2.90	J	2.30	16.8	ug/Kg
			Total Voc :		639				

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Hit Summary Sheet
SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		639				
Client ID:	**B-172-SB02**								
Q1415-04	B-172-SB02	SOIL	Acetone		72.4		5.70	23.0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Methyl Acetate		2.50	J	1.70	4.60	ug/Kg
			Total Voc :		74.9				
Q1415-04	B-172-SB02	SOIL	Butane, 2-methyl-	*	14.9	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Decane	*	7.30	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Cyclopentane	*	120	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Carbonic acid, nonyl vinyl este	*	5.50	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Tert butyl alcohol	*	91.2	J	14.4	23.0	ug/Kg
			Total Tics :		239				
			Total Concentration:		314				
Client ID:	**FB02222025**								
Q1415-05	FB02222025	Water	Acetone		11.6		1.40	5.00	ug/L
			Total Voc :		11.6				
			Total Concentration:		11.6				
Client ID:	**B-173-GW01**								
Q1415-06	B-173-GW01	Water	Acetone		9.10		1.40	5.00	ug/L
Q1415-06	B-173-GW01	Water	Toluene		2.50		0.18	1.00	ug/L
			Total Voc :		11.6				
			Total Concentration:		11.6				

SAMPLE DATA

Raw Data: **VY021336.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	5.16 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
VY021336.D	1		02/26/25 17:01	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.80	U	1.80	5.50	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.50	ug/Kg
75-01-4	Vinyl Chloride	0.84	U	0.84	5.50	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.50	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	5.50	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.85	U	0.85	5.50	ug/Kg
67-64-1	Acetone	13.5	J	6.80	27.4	ug/Kg
75-15-0	Carbon Disulfide	1.40	U	1.40	5.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.50	ug/Kg
79-20-9	Methyl Acetate	2.00	U	2.00	5.50	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.92	U	0.92	5.50	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	5.50	ug/Kg
110-82-7	Cyclohexane	0.76	U	0.76	5.50	ug/Kg
78-93-3	2-Butanone	6.20	U	6.20	27.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.95	U	0.95	5.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.67	U	0.67	5.50	ug/Kg
74-97-5	Bromochloromethane	2.60	U	2.60	5.50	ug/Kg
67-66-3	Chloroform	0.73	U	0.73	5.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	5.50	ug/Kg
108-87-2	Methylcyclohexane	0.95	U	0.95	5.50	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.50	ug/Kg
107-06-2	1,2-Dichloroethane	0.67	U	0.67	5.50	ug/Kg
79-01-6	Trichloroethene	0.82	U	0.82	5.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.72	U	0.72	5.50	ug/Kg
75-27-4	Bromodichloromethane	0.61	U	0.61	5.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.80	U	4.80	27.4	ug/Kg
108-88-3	Toluene	0.73	U	0.73	5.50	ug/Kg

Raw Data: **VY021336.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	5.16 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
VY021336.D	1		02/26/25 17:01	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.66	U	0.66	5.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.50	ug/Kg
591-78-6	2-Hexanone	5.20	U	5.20	27.4	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	5.50	ug/Kg
106-93-4	1,2-Dibromoethane	0.86	U	0.86	5.50	ug/Kg
127-18-4	Tetrachloroethene	0.97	U	0.97	5.50	ug/Kg
108-90-7	Chlorobenzene	0.81	U	0.81	5.50	ug/Kg
100-41-4	Ethyl Benzene	0.68	U	0.68	5.50	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	10.9	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	5.50	ug/Kg
100-42-5	Styrene	0.66	U	0.66	5.50	ug/Kg
75-25-2	Bromoform	0.89	U	0.89	5.50	ug/Kg
98-82-8	Isopropylbenzene	0.73	U	0.73	5.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.81	U	0.81	5.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.88	U	0.88	5.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.65	U	0.65	5.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	5.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.86	U	0.86	5.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.85	U	0.85	5.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		70 (50) - 130 (163)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	49.5		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		70 (29) - 130 (146)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	198000	7.707			
540-36-3	1,4-Difluorobenzene	391000	8.616			
3114-55-4	Chlorobenzene-d5	393000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	169000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY021336.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	5.16 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
VY021336.D	1		02/26/25 17:01	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000064-17-5	Ethanol	10.9	J		3.33	ug/Kg
141-78-6	Ethyl Acetate	1.40	J		6.99	ug/Kg
000105-58-8	Diethyl carbonate	450	J		10.5	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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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	6.1 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
VY021335.D	1		02/26/25 16:37	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.70	ug/Kg
74-83-9	Bromomethane	0.97	U	0.97	4.70	ug/Kg
75-00-3	Chloroethane	0.96	U	0.96	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.86	U	0.86	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.74	U	0.74	4.70	ug/Kg
67-64-1	Acetone	70.4		5.90	23.7	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.70	ug/Kg
79-20-9	Methyl Acetate	2.60	J	1.70	4.70	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.60	U	0.60	4.70	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.70	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	23.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.82	U	0.82	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.58	U	0.58	4.70	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.70	ug/Kg
67-66-3	Chloroform	0.63	U	0.63	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.74	U	0.74	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.70	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.58	U	0.58	4.70	ug/Kg
79-01-6	Trichloroethene	0.71	U	0.71	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.62	U	0.62	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.53	U	0.53	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.10	U	4.10	23.7	ug/Kg
108-88-3	Toluene	0.63	U	0.63	4.70	ug/Kg

Raw Data: **VY021335.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	6.1 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
VY021335.D	1		02/26/25 16:37	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.57	U	0.57	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.80	U	0.80	4.70	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	23.7	ug/Kg
124-48-1	Dibromochloromethane	0.62	U	0.62	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.75	U	0.75	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.84	U	0.84	4.70	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.59	U	0.59	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.50	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	4.70	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.70	ug/Kg
75-25-2	Bromoform	0.77	U	0.77	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.63	U	0.63	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.70	U	0.70	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.76	U	0.76	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.56	U	0.56	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.75	U	0.75	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.74	U	0.74	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.7		70 (50) - 130 (163)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (54) - 130 (147)	102%	SPK: 50
2037-26-5	Toluene-d8	46.1		70 (58) - 130 (134)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.4		70 (29) - 130 (146)	71%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	249000	7.707			
540-36-3	1,4-Difluorobenzene	483000	8.616			
3114-55-4	Chlorobenzene-d5	394000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	106000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY021335.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	6.1 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
VY021335.D	1		02/26/25 16:37	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000078-78-4	Butane, 2-methyl-	16.4	J		2.84	ug/Kg
000287-92-3	Cyclopentane	110	J		4.70	ug/Kg
75-65-0	Tert butyl alcohol	61.1	J		4.85	ug/Kg

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	7.33 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
VY021338.D	1		02/26/25 17:48	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.70	ug/Kg
74-83-9	Bromomethane	0.97	U	0.97	4.70	ug/Kg
75-00-3	Chloroethane	0.95	U	0.95	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.86	U	0.86	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.73	U	0.73	4.70	ug/Kg
67-64-1	Acetone	64.7		5.90	23.6	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.70	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	4.70	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.79	U	0.79	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.59	U	0.59	4.70	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.70	ug/Kg
78-93-3	2-Butanone	17.9	J	5.40	23.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.82	U	0.82	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.57	U	0.57	4.70	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.70	ug/Kg
67-66-3	Chloroform	0.63	U	0.63	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.70	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.57	U	0.57	4.70	ug/Kg
79-01-6	Trichloroethene	0.71	U	0.71	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.62	U	0.62	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.53	U	0.53	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.10	U	4.10	23.6	ug/Kg
108-88-3	Toluene	0.63	U	0.63	4.70	ug/Kg

Raw Data: **VY021338.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	7.33 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
VY021338.D	1		02/26/25 17:48	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.57	U	0.57	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.70	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	23.6	ug/Kg
124-48-1	Dibromochloromethane	0.61	U	0.61	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.74	U	0.74	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.84	U	0.84	4.70	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.40	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	4.70	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.70	ug/Kg
75-25-2	Bromoform	0.76	U	0.76	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.63	U	0.63	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.70	U	0.70	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.75	U	0.75	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.56	U	0.56	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.74	U	0.74	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.73	U	0.73	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.4		70 (50) - 130 (163)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.3		70 (29) - 130 (146)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	278000	7.707			
540-36-3	1,4-Difluorobenzene	557000	8.616			
3114-55-4	Chlorobenzene-d5	584000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	249000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	7.33 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
VY021338.D	1		02/26/25 17:48	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000105-58-8	Diethyl carbonate	34.2	J		10.5	ug/Kg
	unknown11.938	6.20	J		11.9	ug/Kg
000124-18-5	Decane	21.5	J		12.7	ug/Kg
001678-93-9	Cyclohexane, butyl-	6.00	J		13.2	ug/Kg
001120-21-4	Undecane	22.2	J		13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	5.80	J		14.2	ug/Kg
000112-40-3	Dodecane	17.2	J		14.5	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	6.60	J		14.7	ug/Kg
000629-50-5	Tridecane	9.90	J		15.3	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: **VY021355.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02RE	SDG No.:	Q1415
Lab Sample ID:	Q1415-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	4.1 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
VY021355.D	1		02/27/25 14:01	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.80	U	2.80	8.40	ug/Kg
74-87-3	Chloromethane	2.00	U	2.00	8.40	ug/Kg
75-01-4	Vinyl Chloride	1.30	U	1.30	8.40	ug/Kg
74-83-9	Bromomethane	1.70	U	1.70	8.40	ug/Kg
75-00-3	Chloroethane	1.70	U	1.70	8.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	8.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	1.80	8.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.30	U	1.30	8.40	ug/Kg
67-64-1	Acetone	490		10.5	42.1	ug/Kg
75-15-0	Carbon Disulfide	2.20	U	2.20	8.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.10	U	1.10	8.40	ug/Kg
79-20-9	Methyl Acetate	3.00	U	3.00	8.40	ug/Kg
75-09-2	Methylene Chloride	15.6	J	5.70	16.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.40	U	1.40	8.40	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	8.40	ug/Kg
110-82-7	Cyclohexane	1.20	U	1.20	8.40	ug/Kg
78-93-3	2-Butanone	130		9.60	42.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.50	U	1.50	8.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	8.40	ug/Kg
74-97-5	Bromochloromethane	4.10	U	4.10	8.40	ug/Kg
67-66-3	Chloroform	1.10	U	1.10	8.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.30	U	1.30	8.40	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	1.50	8.40	ug/Kg
71-43-2	Benzene	1.20	U	1.20	8.40	ug/Kg
107-06-2	1,2-Dichloroethane	1.00	U	1.00	8.40	ug/Kg
79-01-6	Trichloroethene	1.30	U	1.30	8.40	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	8.40	ug/Kg
75-27-4	Bromodichloromethane	0.94	U	0.94	8.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	7.30	U	7.30	42.1	ug/Kg
108-88-3	Toluene	1.10	U	1.10	8.40	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02RE	SDG No.:	Q1415
Lab Sample ID:	Q1415-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	4.1 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
VY021355.D	1		02/27/25 14:01	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.00	U	1.00	8.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.96	U	0.96	8.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.40	U	1.40	8.40	ug/Kg
591-78-6	2-Hexanone	8.10	U	8.10	42.1	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	8.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.30	U	1.30	8.40	ug/Kg
127-18-4	Tetrachloroethene	1.50	U	1.50	8.40	ug/Kg
108-90-7	Chlorobenzene	1.20	U	1.20	8.40	ug/Kg
100-41-4	Ethyl Benzene	1.00	U	1.00	8.40	ug/Kg
179601-23-1	m/p-Xylenes	2.90	J	2.30	16.8	ug/Kg
95-47-6	o-Xylene	1.20	U	1.20	8.40	ug/Kg
100-42-5	Styrene	1.00	U	1.00	8.40	ug/Kg
75-25-2	Bromoform	1.40	U	1.40	8.40	ug/Kg
98-82-8	Isopropylbenzene	1.10	U	1.10	8.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	1.90	8.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.20	U	1.20	8.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	8.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.99	U	0.99	8.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.60	U	2.60	8.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.30	U	1.30	8.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.30	U	1.30	8.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (50) - 130 (163)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		70 (54) - 130 (147)	108%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		70 (29) - 130 (146)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	98500	7.707			
540-36-3	1,4-Difluorobenzene	175000	8.61			
3114-55-4	Chlorobenzene-d5	165000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	72900	13.347			

Raw Data: **VY021355.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02RE	SDG No.:	Q1415
Lab Sample ID:	Q1415-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	4.1 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
VY021355.D	1		02/27/25 14:01	VY022725

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:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	6.05 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
VY021337.D	1		02/26/25 17:24	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.60	ug/Kg
74-83-9	Bromomethane	0.95	U	0.95	4.60	ug/Kg
75-00-3	Chloroethane	0.93	U	0.93	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.84	U	0.84	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.99	U	0.99	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.72	U	0.72	4.60	ug/Kg
67-64-1	Acetone	72.4		5.70	23.0	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.62	U	0.62	4.60	ug/Kg
79-20-9	Methyl Acetate	2.50	J	1.70	4.60	ug/Kg
75-09-2	Methylene Chloride	3.10	U	3.10	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.58	U	0.58	4.60	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.60	ug/Kg
78-93-3	2-Butanone	5.20	U	5.20	23.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	4.60	ug/Kg
74-97-5	Bromochloromethane	2.20	U	2.20	4.60	ug/Kg
67-66-3	Chloroform	0.62	U	0.62	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.72	U	0.72	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.80	U	0.80	4.60	ug/Kg
71-43-2	Benzene	0.66	U	0.66	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.56	U	0.56	4.60	ug/Kg
79-01-6	Trichloroethene	0.69	U	0.69	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.61	U	0.61	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.52	U	0.52	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	23.0	ug/Kg
108-88-3	Toluene	0.62	U	0.62	4.60	ug/Kg

Raw Data: **VY021337.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	6.05 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
VY021337.D	1		02/26/25 17:24	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.55	U	0.55	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.77	U	0.77	4.60	ug/Kg
591-78-6	2-Hexanone	4.40	U	4.40	23.0	ug/Kg
124-48-1	Dibromochloromethane	0.60	U	0.60	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.73	U	0.73	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	0.82	4.60	ug/Kg
108-90-7	Chlorobenzene	0.68	U	0.68	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.57	U	0.57	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.20	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	4.60	ug/Kg
100-42-5	Styrene	0.55	U	0.55	4.60	ug/Kg
75-25-2	Bromoform	0.75	U	0.75	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.62	U	0.62	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.68	U	0.68	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.74	U	0.74	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.54	U	0.54	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.73	U	0.73	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.72	U	0.72	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.0		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	45.8		70 (58) - 130 (134)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.2		70 (29) - 130 (146)	70%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	274000	7.707			
540-36-3	1,4-Difluorobenzene	518000	8.615			
3114-55-4	Chlorobenzene-d5	415000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	117000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY021337.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	6.05 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
VY021337.D	1		02/26/25 17:24	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000078-78-4	Butane, 2-methyl-	14.9	J		2.84	ug/Kg
000287-92-3	Cyclopentane	120	J		4.71	ug/Kg
75-65-0	Tert butyl alcohol	91.2	J		4.84	ug/Kg
000124-18-5	Decane	7.30	J		12.7	ug/Kg
1000383-25-6	Carbonic acid, nonyl vinyl ester	5.50	J		13.7	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: **VN085853.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085853.D	1		02/25/25 13:36	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	11.6		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Raw Data: **VN085853.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085853.D	1		02/25/25 13:36	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.4		70 (74) - 130 (125)	119%	SPK: 50
1868-53-7	Dibromofluoromethane	55.5		70 (75) - 130 (124)	111%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.5		70 (77) - 130 (121)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	210000	8.224			
540-36-3	1,4-Difluorobenzene	393000	9.1			
3114-55-4	Chlorobenzene-d5	338000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.788			

Raw Data: **VN085853.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085853.D	1		02/25/25 13:36	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **VN085844.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085844.D	1		02/24/25 18:02	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	9.10		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	2.50		0.18	1.00	ug/L

Raw Data: **VN085844.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085844.D	1		02/24/25 18:02	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.4		70 (74) - 130 (125)	121%	SPK: 50
1868-53-7	Dibromofluoromethane	55.7		70 (75) - 130 (124)	111%	SPK: 50
2037-26-5	Toluene-d8	49.8		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		70 (77) - 130 (121)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	8.224			
540-36-3	1,4-Difluorobenzene	417000	9.1			
3114-55-4	Chlorobenzene-d5	372000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.788			

Raw Data: **VN085844.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085844.D	1		02/24/25 18:02	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1415-01	B-163-SB01	1,2-Dichloroethane-d4	50	55.1	110	70 (50)	130 (163)
		Dibromofluoromethane	50	50.3	101	70 (54)	130 (147)
		Toluene-d8	50	49.5	99	70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.2	104	70 (29)	130 (146)
Q1415-02	B-172-SB01	1,2-Dichloroethane-d4	50	53.7	107	70 (50)	130 (163)
		Dibromofluoromethane	50	51.1	102	70 (54)	130 (147)
		Toluene-d8	50	46.1	92	70 (58)	130 (134)
		4-Bromofluorobenzene	50	35.4	71	70 (29)	130 (146)
Q1415-03	B-163-SB02	1,2-Dichloroethane-d4	50	55.4	111	70 (50)	130 (163)
		Dibromofluoromethane	50	50.4	101	70 (54)	130 (147)
		Toluene-d8	50	50.2	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	56.3	113	70 (29)	130 (146)
Q1415-03RE	B-163-SB02RE	1,2-Dichloroethane-d4	50	59.2	118	70 (50)	130 (163)
		Dibromofluoromethane	50	54.0	108	70 (54)	130 (147)
		Toluene-d8	50	48.1	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.7	101	70 (29)	130 (146)
Q1415-04	B-172-SB02	1,2-Dichloroethane-d4	50	51.0	102	70 (50)	130 (163)
		Dibromofluoromethane	50	50.5	101	70 (54)	130 (147)
		Toluene-d8	50	45.8	92	70 (58)	130 (134)
		4-Bromofluorobenzene	50	35.2	70	70 (29)	130 (146)
VY0226SBL01	VY0226SBL01	1,2-Dichloroethane-d4	50	53.1	106	70 (50)	130 (163)
		Dibromofluoromethane	50	49.5	99	70 (54)	130 (147)
		Toluene-d8	50	49.1	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.1	100	70 (29)	130 (146)
VY0226SBS01	VY0226SBS01	1,2-Dichloroethane-d4	50	46.7	93	70 (50)	130 (163)
		Dibromofluoromethane	50	47.4	95	70 (54)	130 (147)
		Toluene-d8	50	47.6	95	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.3	95	70 (29)	130 (146)
VY0226SBSD01	VY0226SBSD01	1,2-Dichloroethane-d4	50	48.5	97	70 (50)	130 (163)
		Dibromofluoromethane	50	49.1	98	70 (54)	130 (147)
		Toluene-d8	50	49.9	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.3	101	70 (29)	130 (146)
VY0227SBL01	VY0227SBL01	1,2-Dichloroethane-d4	50	59.2	118	70 (50)	130 (163)
		Dibromofluoromethane	50	52.5	105	70 (54)	130 (147)
		Toluene-d8	50	48.2	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	49.5	99	70 (29)	130 (146)
VY0227SBS01	VY0227SBS01	1,2-Dichloroethane-d4	50	51.1	102	70 (50)	130 (163)
		Dibromofluoromethane	50	52.3	105	70 (54)	130 (147)
		Toluene-d8	50	52.3	105	70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.4	105	70 (29)	130 (146)

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

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1415-05	FB02222025	1,2-Dichloroethane-d4	50	59.4	119	70 (74)	130 (125)
		Dibromofluoromethane	50	55.5	111	70 (75)	130 (124)
		Toluene-d8	50	49.1	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	40.5	81	70 (77)	130 (121)
Q1415-06	B-173-GW01	1,2-Dichloroethane-d4	50	60.4	121	70 (74)	130 (125)
		Dibromofluoromethane	50	55.6	111	70 (75)	130 (124)
		Toluene-d8	50	49.8	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.6	93	70 (77)	130 (121)
VN0224WBL01	VN0224WBL01	1,2-Dichloroethane-d4	50	60.2	120	70 (74)	130 (125)
		Dibromofluoromethane	50	54.9	110	70 (75)	130 (124)
		Toluene-d8	50	49.7	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.3	89	70 (77)	130 (121)
VN0224WBS01	VN0224WBS01	1,2-Dichloroethane-d4	50	48.5	97	70 (74)	130 (125)
		Dibromofluoromethane	50	48.1	96	70 (75)	130 (124)
		Toluene-d8	50	49.4	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.1	102	70 (77)	130 (121)
VN0224WBSD0	VN0224WBSD01	1,2-Dichloroethane-d4	50	49.0	98	70 (74)	130 (125)
		Dibromofluoromethane	50	49.6	99	70 (75)	130 (124)
		Toluene-d8	50	50.1	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.1	104	70 (77)	130 (121)
VN0225WBL01	VN0225WBL01	1,2-Dichloroethane-d4	50	62.2	124	70 (74)	130 (125)
		Dibromofluoromethane	50	55.9	112	70 (75)	130 (124)
		Toluene-d8	50	48.9	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	41.9	84	70 (77)	130 (121)
VN0225WBS01	VN0225WBS01	1,2-Dichloroethane-d4	50	50.1	100	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104	70 (75)	130 (124)
		Toluene-d8	50	52.3	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.6	107	70 (77)	130 (121)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0224WBS01	Dichlorodifluoromethane	20	19.8	ug/L	99			40 (69)	160 (116)	
	Chloromethane	20	19.6	ug/L	98			40 (65)	160 (116)	
	Vinyl chloride	20	19.6	ug/L	98			70 (65)	130 (117)	
	Bromomethane	20	19.5	ug/L	98			40 (58)	160 (125)	
	Chloroethane	20	19.2	ug/L	96			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.6	ug/L	98			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/L	104			70 (80)	130 (112)	
	1,1-Dichloroethene	20	19.3	ug/L	97			70 (74)	130 (110)	
	Acetone	100	110	ug/L	110			40 (60)	160 (125)	
	Carbon disulfide	20	18.4	ug/L	92			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.7	ug/L	104			70 (78)	130 (114)	
	Methyl Acetate	20	22.4	ug/L	112			70 (67)	130 (125)	
	Methylene Chloride	20	20.4	ug/L	102			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.3	ug/L	97			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.6	ug/L	103			70 (78)	130 (112)	
	Cyclohexane	20	18.5	ug/L	93			70 (75)	130 (110)	
	2-Butanone	100	120	ug/L	120			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.6	ug/L	98			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			70 (77)	130 (110)	
	Bromochloromethane	20	24.9	ug/L	125			70 (70)	130 (124)	
	Chloroform	20	20.8	ug/L	104			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.7	ug/L	99			70 (80)	130 (108)	
	Methylcyclohexane	20	17.8	ug/L	89			70 (72)	130 (115)	
	Benzene	20	20.3	ug/L	102			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.9	ug/L	100			70 (80)	130 (115)	
	Trichloroethene	20	18.7	ug/L	94			70 (77)	130 (113)	
	1,2-Dichloropropane	20	20.8	ug/L	104			70 (83)	130 (111)	
	Bromodichloromethane	20	20.6	ug/L	103			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	120	ug/L	120			40 (74)	160 (118)	
	Toluene	20	21.1	ug/L	106			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.3	ug/L	102			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.9	ug/L	104			70 (83)	130 (112)	
	2-Hexanone	100	120	ug/L	120			40 (73)	160 (117)	
	Dibromochloromethane	20	21.3	ug/L	106			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.3	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	19.4	ug/L	97			70 (67)	130 (123)	
	Chlorobenzene	20	20.1	ug/L	101			70 (82)	130 (109)	
	Ethyl Benzene	20	20.1	ug/L	101			70 (83)	130 (109)	
	m/p-Xylenes	40	43.0	ug/L	108			70 (82)	130 (110)	
	o-Xylene	20	20.6	ug/L	103			70 (83)	130 (109)	
	Styrene	20	20.5	ug/L	103			70 (80)	130 (111)	
	Bromoform	20	22.1	ug/L	111			70 (79)	130 (109)	
	Isopropylbenzene	20	19.2	ug/L	96			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.8	ug/L	94			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.5	ug/L	98			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0224WBS01	1,2-Dibromo-3-Chloropropane	20	19.7	ug/L	99			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	17.0	ug/L	85			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	17.5	ug/L	88			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085833.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0224WBSD01	Dichlorodifluoromethane	20	19.5	ug/L	98	1		40 (69)	160 (116)	20 (20)
	Chloromethane	20	19.9	ug/L	100	2		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	19.1	ug/L	96	2		70 (65)	130 (117)	20 (20)
	Bromomethane	20	19.0	ug/L	95	3		40 (58)	160 (125)	20 (20)
	Chloroethane	20	18.9	ug/L	95	1		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.3	ug/L	97	1		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/L	101	3		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.8	ug/L	99	2		70 (74)	130 (110)	20 (20)
	Acetone	100	120	ug/L	120	9		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.8	ug/L	89	3		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	20.9	ug/L	104	0		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	23.5	ug/L	117	4		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.1	ug/L	101	1		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.3	ug/L	97	0		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	20.3	ug/L	102	1		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.1	ug/L	91	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	120	ug/L	120	0		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.8	ug/L	99	1		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.6	ug/L	98	0		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	25.0	ug/L	125	0		70 (70)	130 (124)	20 (20)
	Chloroform	20	20.2	ug/L	101	3		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.4	ug/L	97	2		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	18.1	ug/L	91	2		70 (72)	130 (115)	20 (20)
	Benzene	20	20.5	ug/L	103	1		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.4	ug/L	102	2		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.1	ug/L	96	2		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	20.8	ug/L	104	0		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.9	ug/L	104	1		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	120	ug/L	120	0		40 (74)	160 (118)	20 (20)
	Toluene	20	21.1	ug/L	106	0		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	21.8	ug/L	109	7		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.8	ug/L	104	0		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	22.2	ug/L	111	7		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	130	ug/L	130	8		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	21.9	ug/L	110	4		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	22.0	ug/L	110	4		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.3	ug/L	97	0		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.9	ug/L	100	1		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	19.8	ug/L	99	2		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	42.5	ug/L	106	2		70 (82)	130 (110)	20 (20)
	o-Xylene	20	20.3	ug/L	102	1		70 (83)	130 (109)	20 (20)
	Styrene	20	20.5	ug/L	103	0		70 (80)	130 (111)	20 (20)
	Bromoform	20	22.1	ug/L	111	0		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	19.5	ug/L	98	2		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	21.2	ug/L	106	3		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.0	ug/L	100	4		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	19.4	ug/L	97	3		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.1	ug/L	101	3		70 (82)	130 (109)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085833.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0224WBSD01	1,2-Dibromo-3-Chloropropane	20	21.4	ug/L	107	8		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	18.5	ug/L	93	9		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	19.1	ug/L	96	9		70 (76)	130 (114)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085850.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0225WBS01	Dichlorodifluoromethane	20	19.0	ug/L	95			40 (69)	160 (116)	
	Chloromethane	20	19.0	ug/L	95			40 (65)	160 (116)	
	Vinyl chloride	20	18.6	ug/L	93			70 (65)	130 (117)	
	Bromomethane	20	18.1	ug/L	91			40 (58)	160 (125)	
	Chloroethane	20	18.1	ug/L	91			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.8	ug/L	94			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.5	ug/L	93			70 (74)	130 (110)	
	Acetone	100	110	ug/L	110			40 (60)	160 (125)	
	Carbon disulfide	20	17.1	ug/L	86			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.4	ug/L	97			70 (78)	130 (114)	
	Methyl Acetate	20	22.8	ug/L	114			70 (67)	130 (125)	
	Methylene Chloride	20	19.1	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.8	ug/L	94			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.9	ug/L	100			70 (78)	130 (112)	
	Cyclohexane	20	17.2	ug/L	86			70 (75)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.5	ug/L	98			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.3	ug/L	92			70 (77)	130 (110)	
	Bromochloromethane	20	22.5	ug/L	113			70 (70)	130 (124)	
	Chloroform	20	19.9	ug/L	100			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.3	ug/L	97			70 (80)	130 (108)	
	Methylcyclohexane	20	16.9	ug/L	85			70 (72)	130 (115)	
	Benzene	20	19.8	ug/L	99			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.9	ug/L	100			70 (80)	130 (115)	
	Trichloroethene	20	18.4	ug/L	92			70 (77)	130 (113)	
	1,2-Dichloropropane	20	20.2	ug/L	101			70 (83)	130 (111)	
	Bromodichloromethane	20	20.4	ug/L	102			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	120	ug/L	120			40 (74)	160 (118)	
	Toluene	20	20.9	ug/L	104			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	19.8	ug/L	99			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.0	ug/L	100			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.8	ug/L	104			70 (83)	130 (112)	
	2-Hexanone	100	130	ug/L	130			40 (73)	160 (117)	
	Dibromochloromethane	20	21.2	ug/L	106			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.2	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	18.4	ug/L	92			70 (67)	130 (123)	
	Chlorobenzene	20	19.1	ug/L	96			70 (82)	130 (109)	
	Ethyl Benzene	20	19.1	ug/L	96			70 (83)	130 (109)	
	m/p-Xylenes	40	40.9	ug/L	102			70 (82)	130 (110)	
	o-Xylene	20	19.4	ug/L	97			70 (83)	130 (109)	
	Styrene	20	19.6	ug/L	98			70 (80)	130 (111)	
	Bromoform	20	21.8	ug/L	109			70 (79)	130 (109)	
	Isopropylbenzene	20	18.2	ug/L	91			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	18.8	ug/L	94			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.3	ug/L	92			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	18.7	ug/L	94			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085850.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0225WBS01	1,2-Dibromo-3-Chloropropane	20	19.9	ug/L	100			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	16.7	ug/L	84			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	16.5	ug/L	83			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021322.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0226SBS01	Dichlorodifluoromethane	20	19.5	ug/Kg	98			40 (64)	160 (136)	
	Chloromethane	20	18.9	ug/Kg	95			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	19.2	ug/Kg	96			40 (58)	160 (141)	
	Chloroethane	20	19.0	ug/Kg	95			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.0	ug/Kg	95			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.0	ug/Kg	95			70 (79)	130 (121)	
	Acetone	100	94.9	ug/Kg	95			40 (60)	160 (131)	
	Carbon disulfide	20	18.6	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			70 (77)	130 (129)	
	Methyl Acetate	20	18.5	ug/Kg	93			70 (69)	130 (149)	
	Methylene Chloride	20	18.5	ug/Kg	93			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.0	ug/Kg	95			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.1	ug/Kg	96			70 (82)	130 (123)	
	Cyclohexane	20	18.9	ug/Kg	95			70 (76)	130 (122)	
	2-Butanone	100	92.9	ug/Kg	93			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.0	ug/Kg	95			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.2	ug/Kg	96			70 (82)	130 (123)	
	Bromochloromethane	20	17.9	ug/Kg	90			70 (80)	130 (127)	
	Chloroform	20	19.3	ug/Kg	97			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.2	ug/Kg	96			70 (80)	130 (126)	
	Methylcyclohexane	20	18.9	ug/Kg	95			70 (77)	130 (123)	
	Benzene	20	19.3	ug/Kg	97			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.2	ug/Kg	96			70 (81)	130 (126)	
	Trichloroethene	20	19.2	ug/Kg	96			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	Bromodichloromethane	20	19.1	ug/Kg	96			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	93.3	ug/Kg	93			40 (70)	160 (135)	
	Toluene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.0	ug/Kg	95			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.1	ug/Kg	96			70 (82)	130 (125)	
	2-Hexanone	100	93.8	ug/Kg	94			40 (66)	160 (138)	
	Dibromochloromethane	20	19.3	ug/Kg	97			70 (79)	130 (125)	
	1,2-Dibromoethane	20	18.8	ug/Kg	94			70 (80)	130 (125)	
	Tetrachloroethene	20	19.2	ug/Kg	96			70 (83)	130 (125)	
	Chlorobenzene	20	19.0	ug/Kg	95			70 (84)	130 (122)	
	Ethyl Benzene	20	19.0	ug/Kg	95			70 (82)	130 (124)	
	m/p-Xylenes	40	38.8	ug/Kg	97			70 (83)	130 (124)	
	o-Xylene	20	19.3	ug/Kg	97			70 (83)	130 (123)	
	Styrene	20	19.3	ug/Kg	97			70 (82)	130 (124)	
	Bromoform	20	19.1	ug/Kg	96			70 (75)	130 (127)	
	Isopropylbenzene	20	19.1	ug/Kg	96			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/Kg	94			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.2	ug/Kg	96			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	18.8	ug/Kg	94			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021322.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0226SBS01	1,2-Dibromo-3-Chloropropane	20	18.6	ug/Kg	93			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	17.7	ug/Kg	89			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	17.9	ug/Kg	90			70 (70)	130 (137)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021323.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0226SBSD01	Dichlorodifluoromethane	20	19.2	ug/Kg	96	2		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.6	ug/Kg	98	3		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	19.4	ug/Kg	97	0		70 (72)	130 (129)	30 (20)
	Bromomethane	20	19.4	ug/Kg	97	1		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.6	ug/Kg	98	3		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.2	ug/Kg	96	1		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/Kg	100	1		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.2	ug/Kg	96	1		70 (79)	130 (121)	30 (20)
	Acetone	100	91.3	ug/Kg	91	4		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	19.2	ug/Kg	96	3		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	19.5	ug/Kg	98	2		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	19.2	ug/Kg	96	3		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	18.9	ug/Kg	95	2		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.4	ug/Kg	97	2		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.5	ug/Kg	98	2		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.1	ug/Kg	96	1		70 (76)	130 (122)	30 (20)
	2-Butanone	100	94.4	ug/Kg	94	1		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	19.6	ug/Kg	98	3		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.9	ug/Kg	100	4		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	19.9	ug/Kg	100	11		70 (80)	130 (127)	30 (20)
	Chloroform	20	19.5	ug/Kg	98	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.2	ug/Kg	96	0		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.5	ug/Kg	98	3		70 (77)	130 (123)	30 (20)
	Benzene	20	19.9	ug/Kg	100	3		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	19.7	ug/Kg	99	3		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	19.6	ug/Kg	98	2		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	19.6	ug/Kg	98	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	19.5	ug/Kg	98	2		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	97.8	ug/Kg	98	5		40 (70)	160 (135)	30 (20)
	Toluene	20	19.7	ug/Kg	99	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.8	ug/Kg	99	4		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97	0		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	19.4	ug/Kg	97	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	96.5	ug/Kg	97	3		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	19.8	ug/Kg	99	2		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	19.4	ug/Kg	97	3		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	19.7	ug/Kg	99	3		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	19.6	ug/Kg	98	3		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.2	ug/Kg	96	1		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	38.6	ug/Kg	97	0		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.4	ug/Kg	97	0		70 (83)	130 (123)	30 (20)
	Styrene	20	19.8	ug/Kg	99	2		70 (82)	130 (124)	30 (20)
	Bromoform	20	19.1	ug/Kg	96	0		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.7	ug/Kg	99	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	19.4	ug/Kg	97	3		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99	3		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	19.8	ug/Kg	99	3		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98	4		70 (83)	130 (124)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021323.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0226SBSD01	1,2-Dibromo-3-Chloropropane	20	18.0	ug/Kg	90	3		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95	7		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95	5		70 (70)	130 (137)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0227SBS01	Dichlorodifluoromethane	20	19.6	ug/Kg	98			40 (64)	160 (136)	
	Chloromethane	20	18.5	ug/Kg	93			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	19.1	ug/Kg	96			40 (58)	160 (141)	
	Chloroethane	20	19.9	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	20.2	ug/Kg	101			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.9	ug/Kg	100			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	18.5	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			70 (77)	130 (129)	
	Methyl Acetate	20	18.3	ug/Kg	92			70 (69)	130 (149)	
	Methylene Chloride	20	19.9	ug/Kg	100			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.6	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Cyclohexane	20	18.7	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	97.4	ug/Kg	97			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.9	ug/Kg	100			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Bromochloromethane	20	19.0	ug/Kg	95			70 (80)	130 (127)	
	Chloroform	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.0	ug/Kg	100			70 (80)	130 (126)	
	Methylcyclohexane	20	19.3	ug/Kg	97			70 (77)	130 (123)	
	Benzene	20	19.9	ug/Kg	100			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.8	ug/Kg	99			70 (83)	130 (122)	
	Bromodichloromethane	20	20.2	ug/Kg	101			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	92.0	ug/Kg	92			40 (70)	160 (135)	
	Toluene	20	20.2	ug/Kg	101			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.4	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	2-Hexanone	100	95.9	ug/Kg	96			40 (66)	160 (138)	
	Dibromochloromethane	20	19.8	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.5	ug/Kg	98			70 (80)	130 (125)	
	Tetrachloroethene	20	19.9	ug/Kg	100			70 (83)	130 (125)	
	Chlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	20.1	ug/Kg	101			70 (82)	130 (124)	
	m/p-Xylenes	40	40.4	ug/Kg	101			70 (83)	130 (124)	
	o-Xylene	20	19.8	ug/Kg	99			70 (83)	130 (123)	
	Styrene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	Bromoform	20	19.9	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/Kg	95			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.6	ug/Kg	98			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0227SBS01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/Kg	94			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.3	ug/Kg	92			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95			70 (70)	130 (137)	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0224WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085831.D Lab Sample ID: VN0224WBL01

Date Analyzed: 02/24/2025 Time Analyzed: 12:39

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0224WBS01	VN0224WBS01	VN085832.D	02/24/2025
VN0224WBSD01	VN0224WBSD01	VN085833.D	02/24/2025
B-173-GW01	Q1415-06	VN085844.D	02/24/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0225WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085849.D Lab Sample ID: VN0225WBL01

Date Analyzed: 02/25/2025 Time Analyzed: 11:43

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0225WBS01	VN0225WBS01	VN085850.D	02/25/2025
FB02222025	Q1415-05	VN085853.D	02/25/2025

COMMENTS:

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

EPA SAMPLE NO.

VY0226SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021321.D Lab Sample ID: VY0226SBL01

Date Analyzed: 02/26/2025 Time Analyzed: 10:50

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
VY0226SBS01	VY0226SBS01	VY021322.D	02/26/2025
VY0226SBSD01	VY0226SBSD01	VY021323.D	02/26/2025
B-172-SB01	Q1415-02	VY021335.D	02/26/2025
B-163-SB01	Q1415-01	VY021336.D	02/26/2025
B-172-SB02	Q1415-04	VY021337.D	02/26/2025
B-163-SB02	Q1415-03	VY021338.D	02/26/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0227SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021347.D Lab Sample ID: VY0227SBL01

Date Analyzed: 02/27/2025 Time Analyzed: 10:42

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
VY0227SBS01	VY0227SBS01	VY021348.D	02/27/2025
B-163-SB02RE	Q1415-03RE	VY021355.D	02/27/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085771.D BFB Injection Date: 02/18/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:35

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.9 (96.5) 1
177	5.0 - 9.0% of mass 176	5.4 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN085772.D	02/18/2025	11:09
VSTDICCC050	VSTDICCC050	VN085773.D	02/18/2025	11:32
VSTDICC010	VSTDICC010	VN085775.D	02/18/2025	12:20
VSTDICC005	VSTDICC005	VN085776.D	02/18/2025	12:43
VSTDICC001	VSTDICC001	VN085777.D	02/18/2025	13:07
VSTDICC020	VSTDICC020	VN085779.D	02/18/2025	14:18

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085828.D BFB Injection Date: 02/24/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:50

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	44.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6
173	Less than 2.0% of mass 174	1.5 (2) 1
174	50.0 - 100.0% of mass 95	76.1
175	5.0 - 9.0% of mass 174	5.6 (7.4) 1
176	95.0 - 101.0% of mass 174	73.9 (97.1) 1
177	5.0 - 9.0% of mass 176	5.3 (7.2) 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	VN085829.D	02/24/2025	11:37
VN0224WBL01	VN0224WBL01	VN085831.D	02/24/2025	12:39
VN0224WBS01	VN0224WBS01	VN085832.D	02/24/2025	13:03
VN0224WBSD01	VN0224WBSD01	VN085833.D	02/24/2025	13:36
B-173-GW01	Q1415-06	VN085844.D	02/24/2025	18:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085846.D BFB Injection Date: 02/25/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:11

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.3 (1.6) 1
174	50.0 - 100.0% of mass 95	81.9
175	5.0 - 9.0% of mass 174	6.5 (7.9) 1
176	95.0 - 101.0% of mass 174	77.8 (95) 1
177	5.0 - 9.0% of mass 176	5.3 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085847.D	02/25/2025	10:45
VN0225WBL01	VN0225WBL01	VN085849.D	02/25/2025	11:43
VN0225WBS01	VN0225WBS01	VN085850.D	02/25/2025	12:14
FB02222025	Q1415-05	VN085853.D	02/25/2025	13:36

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021308.D BFB Injection Date: 02/25/2025

Instrument ID: MSVOA_Y BFB Injection Time: 12:10

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	20.8
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	84.7
175	5.0 - 9.0% of mass 174	6.4 (7.5) 1
176	95.0 - 101.0% of mass 174	83.6 (98.8) 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	VY021309.D	02/25/2025	12:40
VSTDICC010	VSTDICC010	VY021310.D	02/25/2025	13:03
VSTDICC020	VSTDICC020	VY021311.D	02/25/2025	13:26
VSTDICCC050	VSTDICCC050	VY021312.D	02/25/2025	14:48
VSTDICC150	VSTDICC150	VY021314.D	02/25/2025	15:57
VSTDICC100	VSTDICC100	VY021316.D	02/25/2025	16:49

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021319.D BFB Injection Date: 02/26/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:12

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	21.5
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.2 (1.5) 1
174	50.0 - 100.0% of mass 95	78.5
175	5.0 - 9.0% of mass 174	6.5 (8.3) 1
176	95.0 - 101.0% of mass 174	75.9 (96.7) 1
177	5.0 - 9.0% of mass 176	5.1 (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	VY021320.D	02/26/2025	10:11
VY0226SBL01	VY0226SBL01	VY021321.D	02/26/2025	10:50
VY0226SBS01	VY0226SBS01	VY021322.D	02/26/2025	11:22
VY0226SBSD01	VY0226SBSD01	VY021323.D	02/26/2025	11:44
B-172-SB01	Q1415-02	VY021335.D	02/26/2025	16:37
B-163-SB01	Q1415-01	VY021336.D	02/26/2025	17:01
B-172-SB02	Q1415-04	VY021337.D	02/26/2025	17:24
B-163-SB02	Q1415-03	VY021338.D	02/26/2025	17:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021345.D BFB Injection Date: 02/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:41

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	21.8
75	30.0 - 60.0% of mass 95	54.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.2 (1.4) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.5 (7.8) 1
176	95.0 - 101.0% of mass 174	80.4 (96.4) 1
177	5.0 - 9.0% of mass 176	5.2 (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
VSTDCCC050	VSTDCCC050	VY021346.D	02/27/2025	10:13
VY0227SBL01	VY0227SBL01	VY021347.D	02/27/2025	10:42
VY0227SBS01	VY0227SBS01	VY021348.D	02/27/2025	11:18
B-163-SB02RE	Q1415-03RE	VY021355.D	02/27/2025	14:01

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085829.D Date Analyzed: 02/24/2025

Instrument ID: MSVOA_N Time Analyzed: 11:37

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	270391	8.22	444288	9.10	401749	11.87
UPPER LIMIT	540782	8.718	888576	9.6	803498	12.365
LOWER LIMIT	135196	7.718	222144	8.6	200875	11.365
EPA SAMPLE NO.						
B-173-GW01	217128	8.22	416577	9.10	372406	11.87
VN0224WBL01	219652	8.22	415867	9.10	368217	11.87
VN0224WBS01	257358	8.22	436252	9.10	378131	11.87
VN0224WBSD01	254490	8.22	420351	9.10	372649	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085829.D Date Analyzed: 02/24/2025

Instrument ID: MSVOA_N Time Analyzed: 11:37

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

	IS4 AREA #	RT #				
12 HOUR STD	208250	13.788				
UPPER LIMIT	416500	14.288				
LOWER LIMIT	104125	13.288				
EPA SAMPLE NO.						
B-173-GW01	157372	13.79				
VN0224WBL01	141296	13.79				
VN0224WBS01	189869	13.79				
VN0224WBSD01	182403	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085847.D Date Analyzed: 02/25/2025

Instrument ID: MSVOA_N Time Analyzed: 10:45

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	262718	8.22	419879	9.10	388712	11.86
UPPER LIMIT	525436	8.723	839758	9.6	777424	12.364
LOWER LIMIT	131359	7.723	209940	8.6	194356	11.364
EPA SAMPLE NO.						
FB02222025	210441	8.22	393207	9.10	337792	11.87
VN0225WBL01	216938	8.22	423956	9.10	361345	11.87
VN0225WBS01	265043	8.22	437697	9.10	395653	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085847.D Date Analyzed: 02/25/2025

Instrument ID: MSVOA_N Time Analyzed: 10:45

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

	IS4 AREA #	RT #				
12 HOUR STD	207967	13.788				
UPPER LIMIT	415934	14.288				
LOWER LIMIT	103984	13.288				
EPA SAMPLE NO.						
FB02222025	121445	13.79				
VN0225WBL01	136612	13.79				
VN0225WBS01	197432	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021320.D Date Analyzed: 02/26/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:11

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	193888	7.71	308714	8.62	268805		11.42
UPPER LIMIT	387776	8.213	617428	9.116	537610		11.92
LOWER LIMIT	96944	7.213	154357	8.116	134403		10.92
EPA SAMPLE NO.							
B-163-SB01	198272	7.71	390694	8.62	393465		11.41
B-172-SB01	249275	7.71	482876	8.62	393781		11.41
B-163-SB02	278202	7.71	557389	8.62	583706	*	11.41
B-172-SB02	273603	7.71	518008	8.62	414734		11.41
VY0226SBL01	251129	7.71	483695	8.62	470141		11.42
VY0226SBS01	184417	7.71	291138	8.62	254891		11.41
VY0226SBSD01	186200	7.71	292071	8.62	258744		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: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021320.D Date Analyzed: 02/26/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:11

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

	IS4 AREA #	RT #				
12 HOUR STD	131935	13.347				
UPPER LIMIT	263870	13.847				
LOWER LIMIT	65967.5	12.847				
EPA SAMPLE NO.						
B-163-SB01	168735	13.35				
B-172-SB01	105850	13.35				
B-163-SB02	249107	13.35				
B-172-SB02	117278	13.35				
VY0226SBL01	192201	13.35				
VY0226SBS01	128725	13.35				
VY0226SBSD01	129829	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: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021346.D Date Analyzed: 02/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:13

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	216838		7.71	336652	8.62	298167	11.42
UPPER LIMIT	433676		8.207	673304	9.116	596334	11.92
LOWER LIMIT	108419		7.207	168326	8.116	149084	10.92
EPA SAMPLE NO.							
B-163-SB02RE	98490	*	7.71	174802	8.61	165444	11.41
VY0227SBL01	140233		7.71	264026	8.62	255103	11.41
VY0227SBS01	199987		7.71	311959	8.62	272418	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: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021346.D Date Analyzed: 02/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:13

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

	IS4 AREA #		RT #				
12 HOUR STD	146841		13.347				
UPPER LIMIT	293682		13.847				
LOWER LIMIT	73420.5		12.847				
EPA SAMPLE NO.							
B-163-SB02RE	72948	*	13.35				
VY0227SBL01	107368		13.35				
VY0227SBS01	138215		13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

Raw Data: **VN085831.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.2		70 (74) - 130 (125)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		70 (75) - 130 (124)	110%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		70 (77) - 130 (121)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	8.224			
540-36-3	1,4-Difluorobenzene	416000	9.1			
3114-55-4	Chlorobenzene-d5	368000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.788			

Raw Data: **VN085831.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **VN085849.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085849.D	1		02/25/25 11:43	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085849.D	1		02/25/25 11:43	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.2		70 (74) - 130 (125)	124%	SPK: 50
1868-53-7	Dibromofluoromethane	55.8		70 (75) - 130 (124)	112%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.9		70 (77) - 130 (121)	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	8.224			
540-36-3	1,4-Difluorobenzene	424000	9.1			
3114-55-4	Chlorobenzene-d5	361000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.788			

Raw Data: **VN085849.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085849.D	1		02/25/25 11:43	VN022525

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021321.D	1		02/26/25 10:50	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021321.D	1		02/26/25 10:50	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		70 (50) - 130 (163)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		70 (29) - 130 (146)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	251000	7.713			
540-36-3	1,4-Difluorobenzene	484000	8.615			
3114-55-4	Chlorobenzene-d5	470000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	192000	13.346			

Raw Data: **VY021321.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021321.D	1		02/26/25 10:50	VY022625

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (50) - 130 (163)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		70 (29) - 130 (146)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	7.707			
540-36-3	1,4-Difluorobenzene	264000	8.615			
3114-55-4	Chlorobenzene-d5	255000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	107000	13.346			

Raw Data: **VY021347.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **VN085832.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.8		0.21	1.00	ug/L
74-87-3	Chloromethane	19.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.6		0.34	1.00	ug/L
74-83-9	Bromomethane	19.5		1.40	5.00	ug/L
75-00-3	Chloroethane	19.2		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.6		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.3		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.4		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.7		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.4		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.4		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.60	5.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.6		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	24.9		0.18	1.00	ug/L
67-66-3	Chloroform	20.8		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.7		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.8		0.19	1.00	ug/L
71-43-2	Benzene	20.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.8		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	21.1		0.18	1.00	ug/L

Raw Data: **VN085832.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.3		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.9		0.21	1.00	ug/L
591-78-6	2-Hexanone	120		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.1		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.0		0.31	2.00	ug/L
95-47-6	o-Xylene	20.6		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	22.1		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.8		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.5		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	49.4		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	257000	8.224			
540-36-3	1,4-Difluorobenzene	436000	9.1			
3114-55-4	Chlorobenzene-d5	378000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	190000	13.788			

Raw Data: **VN085832.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **VN085850.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085850.D	1		02/25/25 12:14	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.0		0.21	1.00	ug/L
74-87-3	Chloromethane	19.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.34	1.00	ug/L
74-83-9	Bromomethane	18.1		1.40	5.00	ug/L
75-00-3	Chloroethane	18.1		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.1		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.8		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.8		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.2		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.3		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.5		0.18	1.00	ug/L
67-66-3	Chloroform	19.9		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.3		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	16.9		0.19	1.00	ug/L
71-43-2	Benzene	19.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.4		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	20.9		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085850.D	1		02/25/25 12:14	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		0.21	1.00	ug/L
591-78-6	2-Hexanone	130		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.2		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.1		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	40.9		0.31	2.00	ug/L
95-47-6	o-Xylene	19.4		0.14	1.00	ug/L
100-42-5	Styrene	19.6		0.16	1.00	ug/L
75-25-2	Bromoform	21.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.8		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.3		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.7		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.5		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		70 (77) - 130 (121)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	265000	8.224			
540-36-3	1,4-Difluorobenzene	438000	9.1			
3114-55-4	Chlorobenzene-d5	396000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	197000	13.794			

Raw Data: **VN085850.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085850.D	1		02/25/25 12:14	VN022525

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021322.D	1		02/26/25 11:22	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.9		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.0		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.0		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.0		0.78	5.00	ug/Kg
67-64-1	Acetone	94.9		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.6		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.0		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.1		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.9		0.69	5.00	ug/Kg
78-93-3	2-Butanone	92.9		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.2		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.3		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.9		0.87	5.00	ug/Kg
71-43-2	Benzene	19.3		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.2		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.2		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.1		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	93.3		4.40	25.0	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021322.D	1		02/26/25 11:22	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.0		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.1		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	93.8		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.3		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.8		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.2		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.0		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.0		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.8		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.3		0.70	5.00	ug/Kg
100-42-5	Styrene	19.3		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.8		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.1		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.6		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.7		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.7		70 (50) - 130 (163)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		70 (54) - 130 (147)	95%	SPK: 50
2037-26-5	Toluene-d8	47.6		70 (58) - 130 (134)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	184000	7.707			
540-36-3	1,4-Difluorobenzene	291000	8.615			
3114-55-4	Chlorobenzene-d5	255000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.346			

Raw Data: **VY021322.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021322.D	1		02/26/25 11:22	VY022625

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.5		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.9		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.6		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.7		0.69	5.00	ug/Kg
78-93-3	2-Butanone	97.4		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.9		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.0		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.0		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.3		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.8		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.0		4.40	25.0	ug/Kg
108-88-3	Toluene	20.2		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.5		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.4		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.1		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	95.9		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.8		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.70	5.00	ug/Kg
100-42-5	Styrene	19.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.9		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.8		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.0		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.8		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (58) - 130 (134)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		70 (29) - 130 (146)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	312000	8.616			
3114-55-4	Chlorobenzene-d5	272000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.346			

Raw Data: **VY021348.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **VN085833.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBSD01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085833.D	1		02/24/25 13:36	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.5		0.21	1.00	ug/L
74-87-3	Chloromethane	19.9		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.34	1.00	ug/L
74-83-9	Bromomethane	19.0		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.3		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.8		0.26	1.00	ug/L
67-64-1	Acetone	120		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.8		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	23.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.1		1.60	5.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	25.0		0.18	1.00	ug/L
67-66-3	Chloroform	20.2		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.1		0.19	1.00	ug/L
71-43-2	Benzene	20.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.1		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.8		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.9		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	21.1		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBSD01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085833.D	1		02/24/25 13:36	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	21.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.8		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	130		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.9		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.8		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	42.5		0.31	2.00	ug/L
95-47-6	o-Xylene	20.3		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	22.1		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.2		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.4		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.4		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.5		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.1		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	254000	8.224			
540-36-3	1,4-Difluorobenzene	420000	9.1			
3114-55-4	Chlorobenzene-d5	373000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	182000	13.788			

Raw Data: **VN085833.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBSD01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085833.D	1		02/24/25 13:36	VN022425

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBSD01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021323.D	1		02/26/25 11:44	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.2		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.6		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.4		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.6		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.2		0.78	5.00	ug/Kg
67-64-1	Acetone	91.3		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.2		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.5		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.2		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	94.4		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.6		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.5		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.5		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.7		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.6		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.5		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.8		4.40	25.0	ug/Kg
108-88-3	Toluene	19.7		0.67	5.00	ug/Kg

Raw Data: **VY021323.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBSD01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021323.D	1		02/26/25 11:44	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.8		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.4		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	96.5		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.4		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.2		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.70	5.00	ug/Kg
100-42-5	Styrene	19.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.7		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.4		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.7		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.8		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (50) - 130 (163)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	49.9		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		70 (29) - 130 (146)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	186000	7.707			
540-36-3	1,4-Difluorobenzene	292000	8.615			
3114-55-4	Chlorobenzene-d5	259000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	130000	13.346			

Raw Data: **VY021323.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBSD01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021323.D	1		02/26/25 11:44	VY022625

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: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18

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

LAB FILE ID: RRF100 = VN085772.D RRF050 = VN085773.D RRF010 = VN085775.D
RRF005 = VN085776.D RRF001 = VN085777.D RRF020 = VN085779.D

COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.694	0.669	0.779	0.650	0.660	0.628	0.680	7.8
Chloromethane	0.647	0.622	0.742	0.662	0.817	0.604	0.682	11.9
Vinyl Chloride	0.698	0.678	0.796	0.729	0.761	0.674	0.723	6.7
Bromomethane	0.434	0.424	0.543	0.496		0.413	0.462	12.1
Chloroethane	0.447	0.417	0.516	0.470	0.584	0.438	0.479	12.9
Trichlorofluoromethane	1.010	0.959	1.134	1.065	1.103	1.006	1.046	6.3
1,1,2-Trichlorotrifluoroethane	0.602	0.564	0.674	0.635	0.554	0.599	0.605	7.4
1,1-Dichloroethene	0.555	0.527	0.591	0.571	0.514	0.531	0.548	5.3
Acetone	0.195	0.184	0.217	0.208	0.227	0.198	0.205	7.7
Carbon Disulfide	1.565	1.473	1.804	1.604	1.848	1.455	1.625	10.2
Methyl tert-butyl Ether	1.747	1.658	1.714	1.560	1.438	1.659	1.629	7
Methyl Acetate	0.653	0.619	0.794	0.690	0.853	0.625	0.705	13.7
Methylene Chloride	0.628	0.593	0.710	0.666	0.736	0.625	0.660	8.3
trans-1,2-Dichloroethene	0.585	0.549	0.621	0.599	0.623	0.566	0.590	5.1
1,1-Dichloroethane	1.097	1.035	1.216	1.125	1.073	1.089	1.106	5.6
Cyclohexane	0.878	0.860	0.977	1.056		0.858	0.926	9.5
2-Butanone	0.308	0.294	0.331	0.299	0.279	0.299	0.302	5.6
Carbon Tetrachloride	0.573	0.528	0.583	0.545	0.533	0.538	0.550	4.1
cis-1,2-Dichloroethene	0.705	0.661	0.740	0.685	0.646	0.671	0.685	4.9
Bromochloromethane	0.481	0.444	0.346	0.570	0.483	0.402	0.454	17
Chloroform	1.120	1.070	1.269	1.164	1.171	1.141	1.156	5.7
1,1,1-Trichloroethane	1.012	0.967	1.089	1.058	1.030	1.012	1.028	4.1
Methylcyclohexane	0.560	0.492	0.446	0.405	0.373	0.453	0.455	14.5
Benzene	1.581	1.441	1.568	1.421	1.420	1.474	1.484	4.9
1,2-Dichloroethane	0.499	0.456	0.527	0.464	0.472	0.483	0.483	5.4
Trichloroethene	0.370	0.339	0.384	0.350	0.395	0.348	0.364	6.1
1,2-Dichloropropane	0.377	0.347	0.385	0.344	0.339	0.357	0.358	5.2
Bromodichloromethane	0.569	0.518	0.571	0.533	0.512	0.541	0.541	4.6
4-Methyl-2-Pentanone	0.414	0.379	0.392	0.342	0.290	0.388	0.367	12.1
Toluene	0.993	0.902	0.924	0.820	0.689	0.891	0.870	12

* 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: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18

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

LAB FILE ID: RRF100 = VN085772.D RRF050 = VN085773.D RRF010 = VN085775.D
RRF005 = VN085776.D RRF001 = VN085777.D RRF020 = VN085779.D

COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.576	0.521	0.518	0.471	0.408	0.505	0.500	11.3
cis-1,3-Dichloropropene	0.626	0.566	0.582	0.513	0.442	0.559	0.548	11.6
1,1,2-Trichloroethane	0.361	0.331	0.370	0.346	0.324	0.344	0.346	5
2-Hexanone	0.296	0.273	0.266	0.227	0.184	0.270	0.253	16
Dibromochloromethane	0.440	0.402	0.431	0.384	0.355	0.405	0.403	7.7
1,2-Dibromoethane	0.354	0.322	0.362	0.320	0.273	0.330	0.327	9.7
Tetrachloroethene	0.384	0.361	0.420	0.391	0.393	0.375	0.387	5.2
Chlorobenzene	1.183	1.110	1.212	1.139	1.109	1.119	1.145	3.8
Ethyl Benzene	2.105	1.904	1.830	1.665	1.424	1.838	1.794	12.8
m/p-Xylenes	0.809	0.741	0.725	0.610	0.481	0.722	0.682	17.2
o-Xylene	0.771	0.704	0.666	0.584	0.502	0.659	0.648	14.5
Styrene	1.327	1.203	1.060	0.885	0.744	1.133	1.059	20.2
Bromoform	0.327	0.303	0.322	0.301	0.274	0.309	0.306	6.2
Isopropylbenzene	3.851	3.596	3.623	3.067	2.933	3.484	3.425	10.3
1,1,2,2-Tetrachloroethane	1.073	1.053	1.304	1.218	1.271	1.154	1.179	8.8
1,3-Dichlorobenzene	1.772	1.635	1.876	1.697	1.748	1.675	1.734	4.9
1,4-Dichlorobenzene	1.750	1.647	1.884	1.777	1.921	1.684	1.777	6.1
1,2-Dichlorobenzene	1.660	1.574	1.768	1.642	1.744	1.617	1.667	4.5
1,2-Dibromo-3-Chloropropane	0.198	0.193	0.238	0.222	0.256	0.191	0.216	12.4
1,2,4-Trichlorobenzene	0.877	0.802	0.827	0.728	0.829	0.704	0.794	8.3
1,2,3-Trichlorobenzene	0.825	0.789	0.844	0.736	0.917	0.675	0.798	10.6
1,2-Dichloroethane-d4	0.698	0.613	0.588	0.767		0.575	0.648	12.6
Dibromofluoromethane	0.375	0.317	0.294	0.357		0.293	0.327	11.5
Toluene-d8	1.444	1.199	1.017	1.212		1.080	1.190	13.8
4-Bromofluorobenzene	0.503	0.419	0.323	0.370		0.346	0.392	18.2

* 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: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49

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

LAB FILE ID: RRF005 = VY021309.D RRF010 = VY021310.D RRF020 = VY021311.D
RRF050 = VY021312.D RRF150 = VY021314.D RRF100 = VY021316.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.510	0.484	0.431	0.493	0.480	0.447	0.474	6.2
Chloromethane	0.709	0.628	0.566	0.602	0.597	0.570	0.612	8.6
Vinyl Chloride	0.648	0.591	0.554	0.627	0.606	0.580	0.601	5.6
Bromomethane	0.505	0.414	0.361	0.387	0.371	0.359	0.399	13.9
Chloroethane	0.414	0.365	0.347	0.390	0.365	0.355	0.373	6.7
Trichlorofluoromethane	0.976	0.915	0.838	0.936	0.909	0.870	0.908	5.3
1,1,2-Trichlorotrifluoroethane	0.546	0.529	0.491	0.537	0.541	0.508	0.525	4.1
1,1-Dichloroethene	0.545	0.489	0.462	0.515	0.518	0.490	0.503	5.7
Acetone	0.122	0.102	0.094	0.128	0.104	0.103	0.109	11.9
Carbon Disulfide	1.800	1.652	1.540	1.734	1.678	1.620	1.671	5.4
Methyl tert-butyl Ether	1.312	1.268	1.267	1.410	1.410	1.307	1.329	4.9
Methyl Acetate	0.285	0.249	0.259	0.276	0.276	0.250	0.266	5.7
Methylene Chloride	0.733	0.598	0.539	0.585	0.547	0.529	0.588	12.8
trans-1,2-Dichloroethene	0.589	0.536	0.507	0.573	0.570	0.547	0.554	5.4
1,1-Dichloroethane	1.101	1.032	0.961	1.083	1.058	1.007	1.040	4.9
Cyclohexane	1.182	1.025	0.910	0.989	0.971	0.923	1.000	9.9
2-Butanone	0.162	0.155	0.156	0.183	0.171	0.159	0.164	6.5
Carbon Tetrachloride	0.567	0.562	0.509	0.581	0.567	0.535	0.554	4.8
cis-1,2-Dichloroethene	0.649	0.610	0.588	0.665	0.656	0.626	0.632	4.7
Bromochloromethane	0.525	0.442	0.438	0.454	0.464	0.439	0.460	7.2
Chloroform	1.128	1.046	0.977	1.095	1.062	1.017	1.054	5.1
1,1,1-Trichloroethane	1.020	0.956	0.889	0.986	0.979	0.927	0.960	4.8
Methylcyclohexane	0.597	0.613	0.584	0.662	0.663	0.618	0.623	5.3
Benzene	1.515	1.445	1.359	1.533	1.472	1.409	1.456	4.5
1,2-Dichloroethane	0.422	0.417	0.393	0.434	0.419	0.394	0.413	3.9
Trichloroethene	0.375	0.360	0.341	0.382	0.375	0.354	0.364	4.3
1,2-Dichloropropane	0.360	0.350	0.329	0.371	0.357	0.336	0.350	4.5
Bromodichloromethane	0.519	0.503	0.477	0.541	0.528	0.495	0.511	4.5
4-Methyl-2-Pentanone	0.220	0.227	0.239	0.267	0.264	0.238	0.243	7.9
Toluene	0.887	0.888	0.852	0.965	0.936	0.897	0.904	4.4

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

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49

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

LAB FILE ID: RRF005 = VY021309.D RRF010 = VY021310.D RRF020 = VY021311.D
RRF050 = VY021312.D RRF150 = VY021314.D RRF100 = VY021316.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.438	0.436	0.434	0.515	0.509	0.474	0.468	8
cis-1,3-Dichloropropene	0.541	0.526	0.528	0.591	0.581	0.546	0.552	5
1,1,2-Trichloroethane	0.250	0.251	0.238	0.267	0.254	0.237	0.249	4.4
2-Hexanone	0.133	0.146	0.155	0.183	0.178	0.162	0.159	11.9
Dibromochloromethane	0.340	0.325	0.322	0.368	0.352	0.332	0.340	5.2
1,2-Dibromoethane	0.234	0.231	0.226	0.254	0.245	0.227	0.236	4.7
Tetrachloroethene	0.405	0.380	0.351	0.389	0.386	0.355	0.378	5.5
Chlorobenzene	1.171	1.111	1.039	1.176	1.159	1.078	1.122	5
Ethyl Benzene	1.938	1.941	1.826	2.130	2.115	1.979	1.988	5.8
m/p-Xylenes	0.735	0.738	0.696	0.802	0.783	0.733	0.748	5.1
o-Xylene	0.689	0.675	0.648	0.758	0.739	0.694	0.701	5.9
Styrene	1.081	1.128	1.091	1.277	1.257	1.159	1.166	7.2
Bromoform	0.221	0.221	0.211	0.246	0.236	0.214	0.225	5.9
Isopropylbenzene	3.744	3.605	3.437	3.976	4.009	3.783	3.759	5.8
1,1,2,2-Tetrachloroethane	0.700	0.649	0.621	0.697	0.689	0.624	0.663	5.5
1,3-Dichlorobenzene	1.812	1.729	1.598	1.792	1.777	1.668	1.730	4.8
1,4-Dichlorobenzene	1.825	1.710	1.593	1.751	1.744	1.629	1.709	5
1,2-Dichlorobenzene	1.599	1.499	1.408	1.575	1.564	1.446	1.515	5.1
1,2-Dibromo-3-Chloropropane	0.103	0.097	0.099	0.113	0.115	0.102	0.105	7.2
1,2,4-Trichlorobenzene	0.906	0.848	0.822	0.968	1.053	0.950	0.925	9.2
1,2,3-Trichlorobenzene	0.742	0.719	0.698	0.824	0.896	0.809	0.781	9.6
1,2-Dichloroethane-d4	0.681	0.510	0.548	0.551	0.566	0.547	0.567	10.3
Dibromofluoromethane	0.370	0.299	0.317	0.325	0.334	0.322	0.328	7.2
Toluene-d8	1.420	1.158	1.230	1.251	1.290	1.253	1.267	6.8
4-Bromofluorobenzene	0.490	0.387	0.404	0.423	0.435	0.420	0.426	8.2

* 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: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/24/2025 11:37

Lab File ID: VN085829.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.680	0.700		2.94	20
Chloromethane	0.682	0.660	0.1	-3.23	20
Vinyl Chloride	0.723	0.719		-0.55	20
Bromomethane	0.462	0.437		-5.41	20
Chloroethane	0.479	0.461		-3.76	20
Trichlorofluoromethane	1.046	1.056		0.96	20
1,1,2-Trichlorotrifluoroethane	0.605	0.643		6.28	20
1,1-Dichloroethene	0.548	0.569		3.83	20
Acetone	0.205	0.217		5.85	20
Carbon Disulfide	1.625	1.541		-5.17	20
Methyl tert-butyl Ether	1.629	1.821		11.73	20
Methyl Acetate	0.705	0.776		10.07	20
Methylene Chloride	0.660	0.670		1.51	20
trans-1,2-Dichloroethene	0.590	0.607		2.88	20
1,1-Dichloroethane	1.106	1.163	0.1	5.15	20
Cyclohexane	0.926	0.906		-2.16	20
2-Butanone	0.302	0.356		17.88	20
Carbon Tetrachloride	0.550	0.590		7.27	20
cis-1,2-Dichloroethene	0.685	0.716		4.53	20
Bromochloromethane	0.454	0.496		9.25	20
Chloroform	1.156	1.205		4.24	20
1,1,1-Trichloroethane	1.028	1.063		3.4	20
Methylcyclohexane	0.455	0.502		10.33	20
Benzene	1.484	1.612		8.63	20
1,2-Dichloroethane	0.483	0.508		5.18	20
Trichloroethene	0.364	0.369		1.37	20
1,2-Dichloropropane	0.358	0.395		10.34	20
Bromodichloromethane	0.541	0.579		7.02	20
4-Methyl-2-Pentanone	0.367	0.466		26.98	20
Toluene	0.870	1.009		15.98	20
t-1,3-Dichloropropene	0.500	0.566		13.2	20
cis-1,3-Dichloropropene	0.548	0.613		11.86	20
1,1,2-Trichloroethane	0.346	0.386		11.56	20
2-Hexanone	0.253	0.338		33.6	20
Dibromochloromethane	0.403	0.459		13.9	20
1,2-Dibromoethane	0.327	0.376		14.98	20
Tetrachloroethene	0.387	0.388		0.26	20
Chlorobenzene	1.145	1.187	0.3	3.67	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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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/24/2025 11:37

Lab File ID: VN085829.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.794	2.058		14.72	20
m/p-Xylenes	0.682	0.815		19.5	20
o-Xylene	0.648	0.761		17.44	20
Styrene	1.059	1.326		25.21	20
Bromoform	0.306	0.351	0.1	14.71	20
Isopropylbenzene	3.425	3.702		8.09	20
1,1,2,2-Tetrachloroethane	1.179	1.192	0.3	1.1	20
1,3-Dichlorobenzene	1.734	1.758		1.38	20
1,4-Dichlorobenzene	1.777	1.724		-2.98	20
1,2-Dichlorobenzene	1.667	1.700		1.92	20
1,2-Dibromo-3-Chloropropane	0.216	0.219		1.39	20
1,2,4-Trichlorobenzene	0.794	0.808		1.76	20
1,2,3-Trichlorobenzene	0.798	0.802		0.5	20
1,2-Dichloroethane-d4	0.648	0.721		11.27	20
Dibromofluoromethane	0.327	0.384		17.43	20
Toluene-d8	1.190	1.428		20	20
4-Bromofluorobenzene	0.392	0.497		26.79	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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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/25/2025 10:45

Lab File ID: VN085847.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.680	0.608		-10.59	20
Chloromethane	0.682	0.586	0.1	-14.08	20
Vinyl Chloride	0.723	0.632		-12.59	20
Bromomethane	0.462	0.373		-19.26	20
Chloroethane	0.479	0.402		-16.08	20
Trichlorofluoromethane	1.046	0.920		-12.05	20
1,1,2-Trichlorotrifluoroethane	0.605	0.565		-6.61	20
1,1-Dichloroethene	0.548	0.491		-10.4	20
Acetone	0.205	0.208		1.46	20
Carbon Disulfide	1.625	1.327		-18.34	20
Methyl tert-butyl Ether	1.629	1.593		-2.21	20
Methyl Acetate	0.705	0.729		3.4	20
Methylene Chloride	0.660	0.599		-9.24	20
trans-1,2-Dichloroethene	0.590	0.532		-9.83	20
1,1-Dichloroethane	1.106	1.018	0.1	-7.96	20
Cyclohexane	0.926	0.766		-17.28	20
2-Butanone	0.302	0.333		10.27	20
Carbon Tetrachloride	0.550	0.525		-4.55	20
cis-1,2-Dichloroethene	0.685	0.621		-9.34	20
Bromochloromethane	0.454	0.518		14.1	20
Chloroform	1.156	1.085		-6.14	20
1,1,1-Trichloroethane	1.028	0.929		-9.63	20
Methylcyclohexane	0.455	0.419		-7.91	20
Benzene	1.484	1.448		-2.43	20
1,2-Dichloroethane	0.483	0.463		-4.14	20
Trichloroethene	0.364	0.326		-10.44	20
1,2-Dichloropropane	0.358	0.359		0.28	20
Bromodichloromethane	0.541	0.535		-1.11	20
4-Methyl-2-Pentanone	0.367	0.450		22.62	20
Toluene	0.870	0.907		4.25	20
t-1,3-Dichloropropene	0.500	0.511		2.2	20
cis-1,3-Dichloropropene	0.548	0.557		1.64	20
1,1,2-Trichloroethane	0.346	0.354		2.31	20
2-Hexanone	0.253	0.331		30.83	20
Dibromochloromethane	0.403	0.420		4.22	20
1,2-Dibromoethane	0.327	0.343		4.89	20
Tetrachloroethene	0.387	0.335		-13.44	20
Chlorobenzene	1.145	1.068	0.3	-6.72	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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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/25/2025 10:45

Lab File ID: VN085847.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.794	1.793		-0.06	20
m/p-Xylenes	0.682	0.728		6.74	20
o-Xylene	0.648	0.671		3.55	20
Styrene	1.059	1.195		12.84	20
Bromoform	0.306	0.321	0.1	4.9	20
Isopropylbenzene	3.425	3.110		-9.2	20
1,1,2,2-Tetrachloroethane	1.179	1.075	0.3	-8.82	20
1,3-Dichlorobenzene	1.734	1.565		-9.75	20
1,4-Dichlorobenzene	1.777	1.541		-13.28	20
1,2-Dichlorobenzene	1.667	1.504		-9.78	20
1,2-Dibromo-3-Chloropropane	0.216	0.197		-8.8	20
1,2,4-Trichlorobenzene	0.794	0.683		-13.98	20
1,2,3-Trichlorobenzene	0.798	0.688		-13.78	20
1,2-Dichloroethane-d4	0.648	0.675		4.17	20
Dibromofluoromethane	0.327	0.368		12.54	20
Toluene-d8	1.190	1.350		13.36	20
4-Bromofluorobenzene	0.392	0.481		22.7	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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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/26/2025 10:11

Lab File ID: VY021320.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.474	0.442		-6.75	20
Chloromethane	0.612	0.581	0.1	-5.07	20
Vinyl Chloride	0.601	0.586		-2.5	20
Bromomethane	0.399	0.370		-7.27	20
Chloroethane	0.373	0.363		-2.68	20
Trichlorofluoromethane	0.908	0.866		-4.63	20
1,1,2-Trichlorotrifluoroethane	0.525	0.496		-5.52	20
1,1-Dichloroethene	0.503	0.487		-3.18	20
Acetone	0.109	0.113		3.67	20
Carbon Disulfide	1.671	1.628		-2.57	20
Methyl tert-butyl Ether	1.329	1.308		-1.58	20
Methyl Acetate	0.266	0.257		-3.38	20
Methylene Chloride	0.588	0.533		-9.35	20
trans-1,2-Dichloroethene	0.554	0.540		-2.53	20
1,1-Dichloroethane	1.040	1.021	0.1	-1.83	20
Cyclohexane	1.000	0.922		-7.8	20
2-Butanone	0.164	0.162		-1.22	20
Carbon Tetrachloride	0.554	0.536		-3.25	20
cis-1,2-Dichloroethene	0.632	0.633		0.16	20
Bromochloromethane	0.460	0.435		-5.43	20
Chloroform	1.054	1.038		-1.52	20
1,1,1-Trichloroethane	0.960	0.936		-2.5	20
Methylcyclohexane	0.623	0.578		-7.22	20
Benzene	1.456	1.415		-2.82	20
1,2-Dichloroethane	0.413	0.396		-4.12	20
Trichloroethene	0.364	0.355		-2.47	20
1,2-Dichloropropane	0.350	0.341		-2.57	20
Bromodichloromethane	0.511	0.494		-3.33	20
4-Methyl-2-Pentanone	0.243	0.234		-3.7	20
Toluene	0.904	0.892		-1.33	20
t-1,3-Dichloropropene	0.468	0.468		0	20
cis-1,3-Dichloropropene	0.552	0.543		-1.63	20
1,1,2-Trichloroethane	0.249	0.236		-5.22	20
2-Hexanone	0.159	0.159		0	20
Dibromochloromethane	0.340	0.332		-2.35	20
1,2-Dibromoethane	0.236	0.224		-5.09	20
Tetrachloroethene	0.378	0.359		-5.03	20
Chlorobenzene	1.122	1.091	0.3	-2.76	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/26/2025 10:11

Lab File ID: VY021320.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.988	1.972		-0.81	20
m/p-Xylenes	0.748	0.735		-1.74	20
o-Xylene	0.701	0.696		-0.71	20
Styrene	1.166	1.176		0.86	20
Bromoform	0.225	0.217	0.1	-3.56	20
Isopropylbenzene	3.759	3.742		-0.45	20
1,1,2,2-Tetrachloroethane	0.663	0.639	0.3	-3.62	20
1,3-Dichlorobenzene	1.730	1.676		-3.12	20
1,4-Dichlorobenzene	1.709	1.633		-4.45	20
1,2-Dichlorobenzene	1.515	1.469		-3.04	20
1,2-Dibromo-3-Chloropropane	0.105	0.099		-5.71	20
1,2,4-Trichlorobenzene	0.925	0.884		-4.43	20
1,2,3-Trichlorobenzene	0.781	0.747		-4.35	20
1,2-Dichloroethane-d4	0.567	0.544		-4.06	20
Dibromofluoromethane	0.328	0.320		-2.44	20
Toluene-d8	1.267	1.257		-0.79	20
4-Bromofluorobenzene	0.426	0.420		-1.41	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: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/27/2025 10:13

Lab File ID: VY021346.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.474	0.413		-12.87	20
Chloromethane	0.612	0.531	0.1	-13.23	20
Vinyl Chloride	0.601	0.554		-7.82	20
Bromomethane	0.399	0.355		-11.03	20
Chloroethane	0.373	0.354		-5.09	20
Trichlorofluoromethane	0.908	0.857		-5.62	20
1,1,2-Trichlorotrifluoroethane	0.525	0.483		-8	20
1,1-Dichloroethene	0.503	0.467		-7.16	20
Acetone	0.109	0.108		-0.92	20
Carbon Disulfide	1.671	1.540		-7.84	20
Methyl tert-butyl Ether	1.329	1.304		-1.88	20
Methyl Acetate	0.266	0.254		-4.51	20
Methylene Chloride	0.588	0.523		-11.05	20
trans-1,2-Dichloroethene	0.554	0.533		-3.79	20
1,1-Dichloroethane	1.040	0.977	0.1	-6.06	20
Cyclohexane	1.000	0.858		-14.2	20
2-Butanone	0.164	0.156		-4.88	20
Carbon Tetrachloride	0.554	0.524		-5.41	20
cis-1,2-Dichloroethene	0.632	0.615		-2.69	20
Bromochloromethane	0.460	0.454		-1.3	20
Chloroform	1.054	0.999		-5.22	20
1,1,1-Trichloroethane	0.960	0.904		-5.83	20
Methylcyclohexane	0.623	0.568		-8.83	20
Benzene	1.456	1.381		-5.15	20
1,2-Dichloroethane	0.413	0.403		-2.42	20
Trichloroethene	0.364	0.350		-3.85	20
1,2-Dichloropropane	0.350	0.331		-5.43	20
Bromodichloromethane	0.511	0.501		-1.96	20
4-Methyl-2-Pentanone	0.243	0.236		-2.88	20
Toluene	0.904	0.878		-2.88	20
t-1,3-Dichloropropene	0.468	0.463		-1.07	20
cis-1,3-Dichloropropene	0.552	0.535		-3.08	20
1,1,2-Trichloroethane	0.249	0.238		-4.42	20
2-Hexanone	0.159	0.157		-1.26	20
Dibromochloromethane	0.340	0.334		-1.76	20
1,2-Dibromoethane	0.236	0.228		-3.39	20
Tetrachloroethene	0.378	0.347		-8.2	20
Chlorobenzene	1.122	1.069	0.3	-4.72	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: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/27/2025 10:13

Lab File ID: VY021346.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.988	1.908		-4.02	20
m/p-Xylenes	0.748	0.712		-4.81	20
o-Xylene	0.701	0.674		-3.85	20
Styrene	1.166	1.136		-2.57	20
Bromoform	0.225	0.221	0.1	-1.78	20
Isopropylbenzene	3.759	3.639		-3.19	20
1,1,2,2-Tetrachloroethane	0.663	0.638	0.3	-3.77	20
1,3-Dichlorobenzene	1.730	1.628		-5.9	20
1,4-Dichlorobenzene	1.709	1.598		-6.49	20
1,2-Dichlorobenzene	1.515	1.449		-4.36	20
1,2-Dibromo-3-Chloropropane	0.105	0.099		-5.71	20
1,2,4-Trichlorobenzene	0.925	0.872		-5.73	20
1,2,3-Trichlorobenzene	0.781	0.739		-5.38	20
1,2-Dichloroethane-d4	0.567	0.558		-1.59	20
Dibromofluoromethane	0.328	0.334		1.83	20
Toluene-d8	1.267	1.261		-0.47	20
4-Bromofluorobenzene	0.426	0.425		-0.23	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\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Time: Feb 27 00:40:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

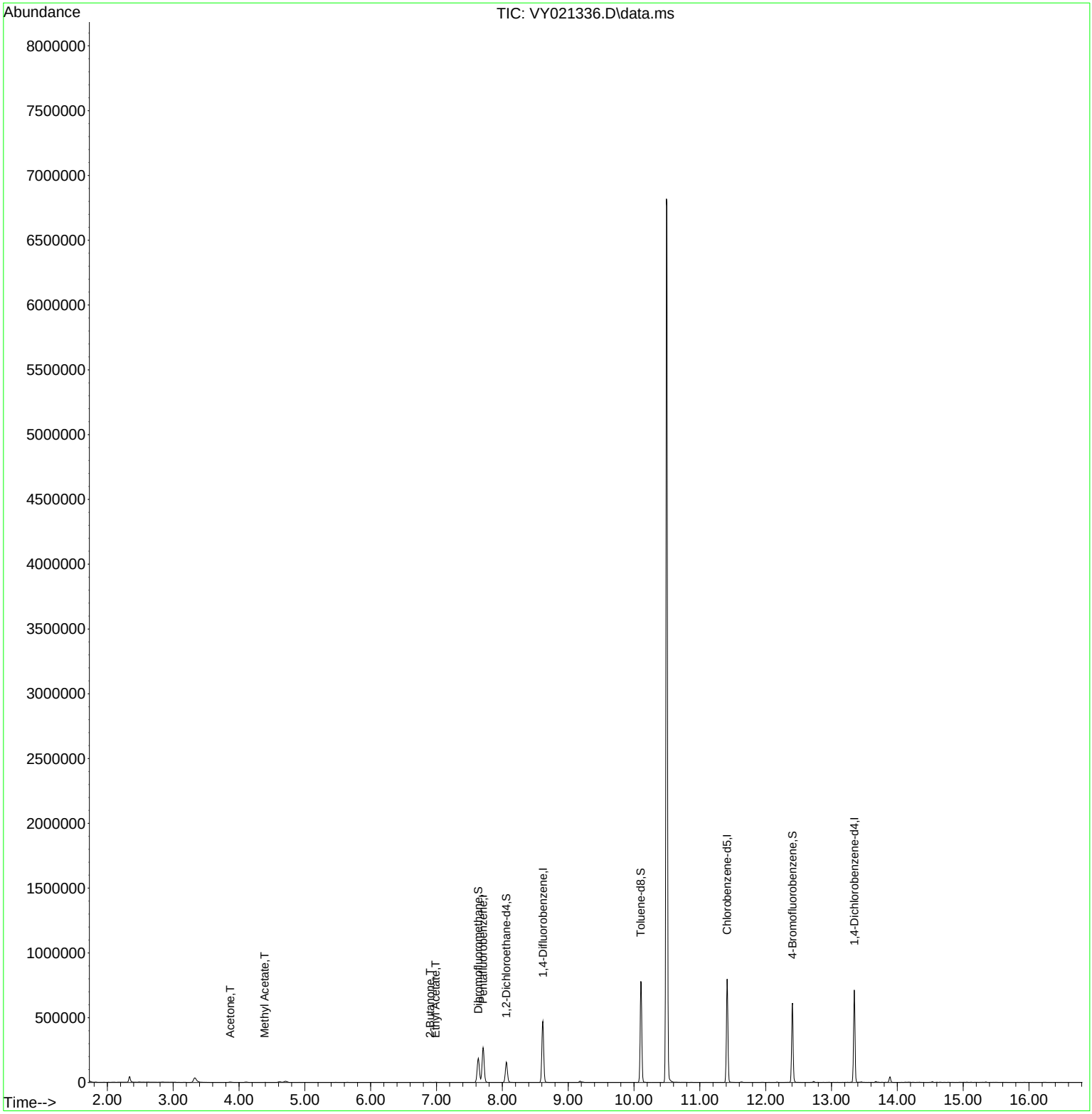
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	198272	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	390694	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	393465	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	168735	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	123934	55.101	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.200%			
35) Dibromofluoromethane	7.634	113	128943	50.340	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.680%			
50) Toluene-d8	10.103	98	489572	49.456	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.920%			
62) 4-Bromofluorobenzene	12.408	95	173918	52.204	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 104.400%			
Target Compounds						Qvalue
16) Acetone	3.866	43	5326	12.344	ug/l	98
18) Methyl Acetate	4.391	43	1408	1.335	ug/l #	86
25) 2-Butanone	6.902	43	1395	2.142	ug/l	91
37) Ethyl Acetate	6.988	43	2363	1.235	ug/l #	86

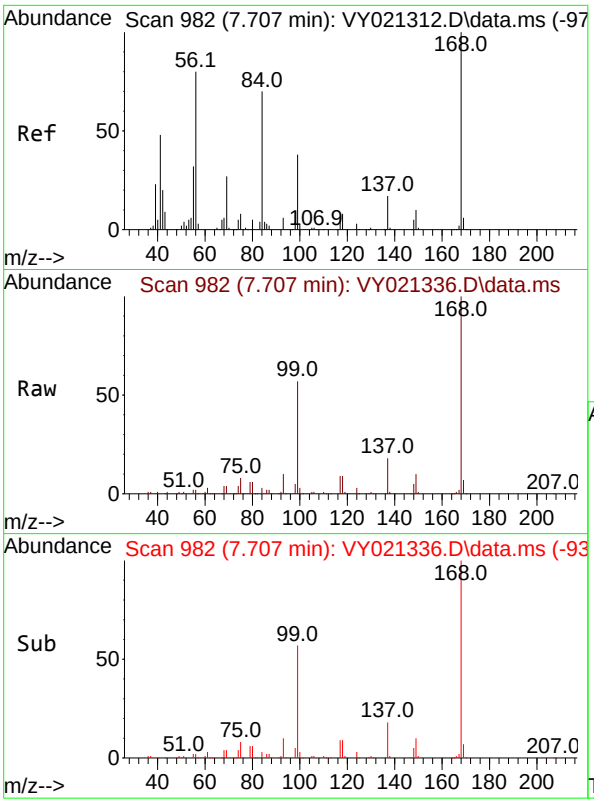
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Time: Feb 27 00:40:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



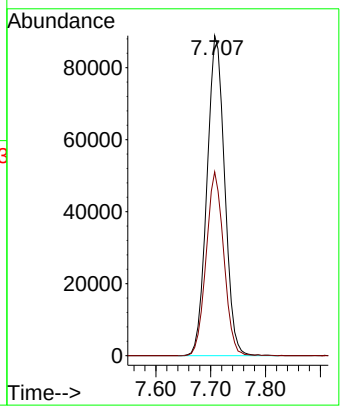


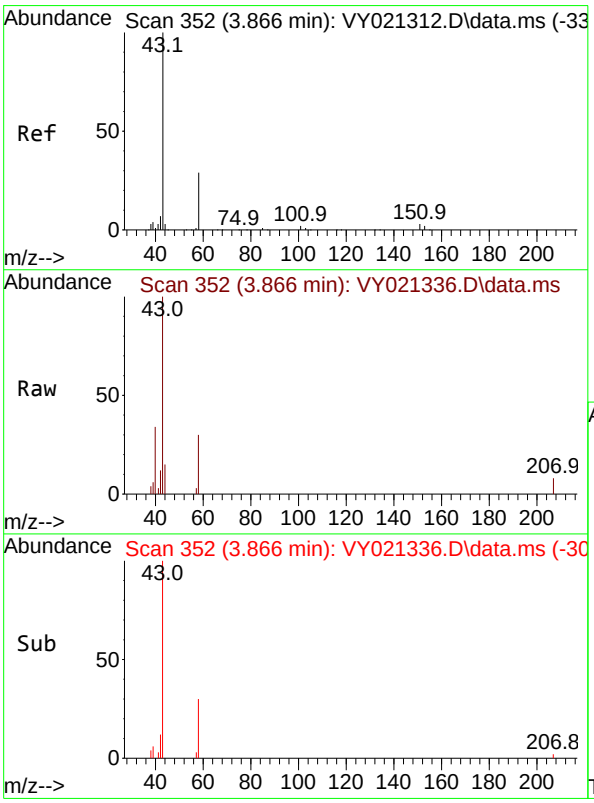
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion:168 Resp: 198272

Ion	Ratio	Lower	Upper
168	100		
99	57.4	47.1	70.7

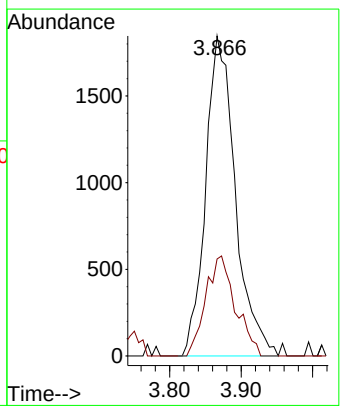


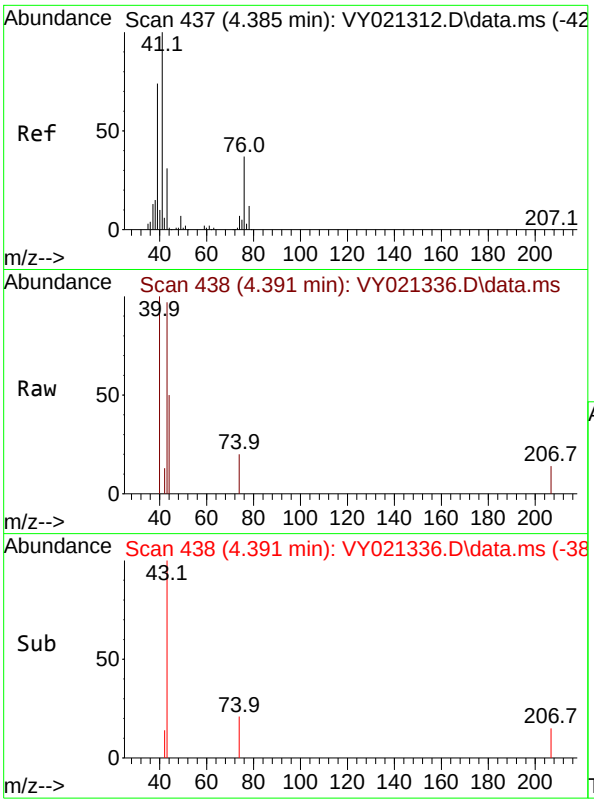


#16
Acetone
Concen: 12.344 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion: 43 Resp: 5326

Ion	Ratio	Lower	Upper
43	100		
58	30.3	23.5	35.3



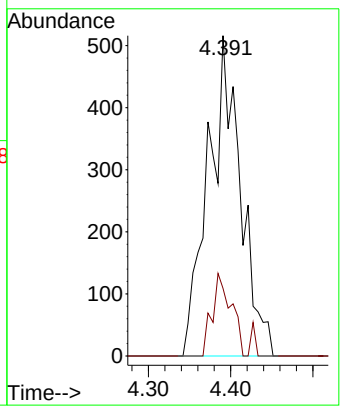


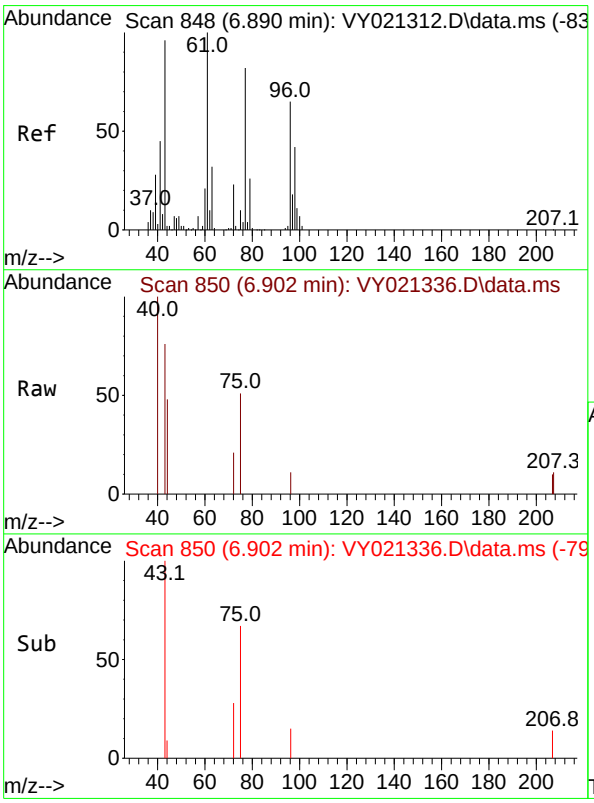
#18
Methyl Acetate
Concen: 1.335 ug/l
RT: 4.391 min Scan# 4
Delta R.T. 0.006 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion: 43 Resp: 1408

Ion	Ratio	Lower	Upper
43	100		
74	15.3	17.7	26.5#

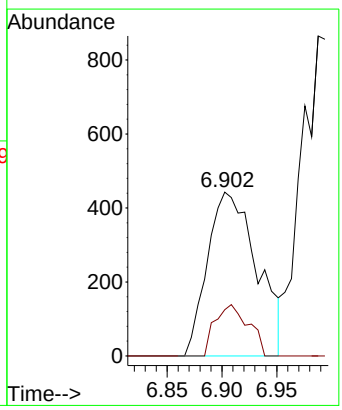


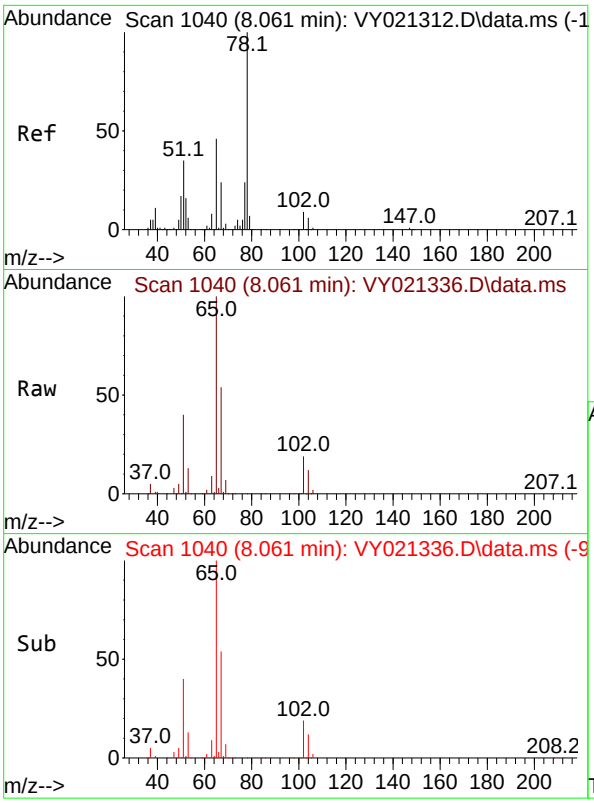


#25
2-Butanone
Concen: 2.142 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.012 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion: 43 Resp: 1395

Ion	Ratio	Lower	Upper
43	100		
72	28.2	19.0	28.6



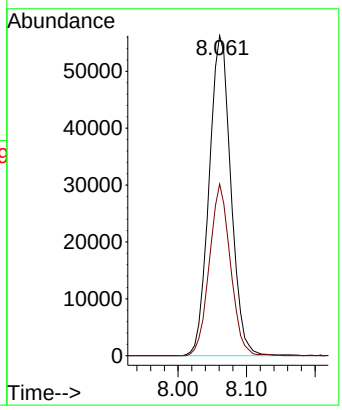


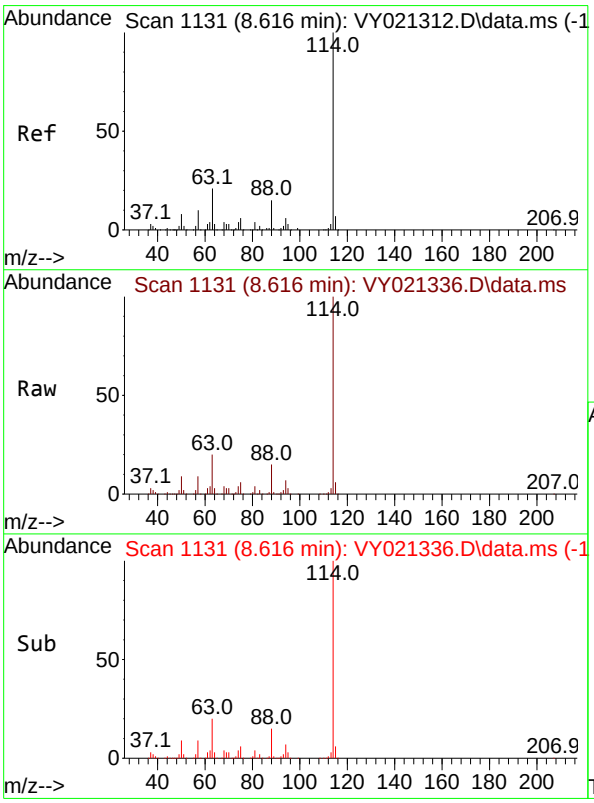
#33
1,2-Dichloroethane-d4
Concen: 55.101 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion: 65 Resp: 123934

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.6

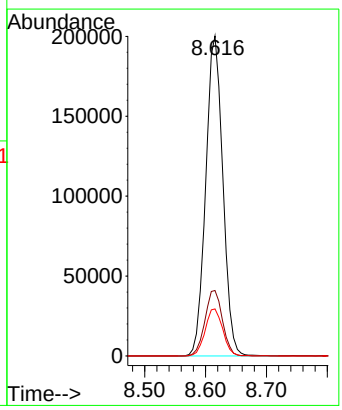


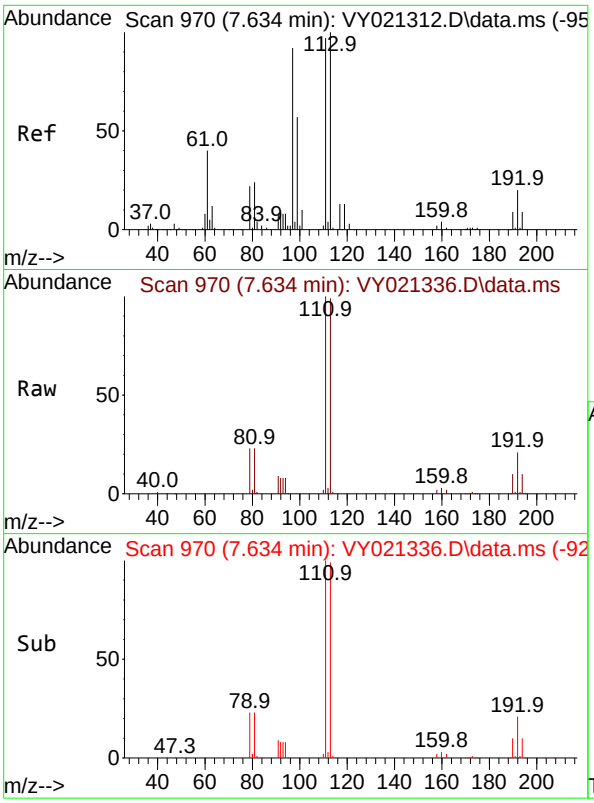


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion:114 Resp: 390694

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.2
88	14.7	0.0	29.8



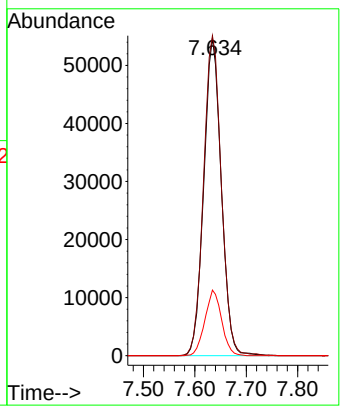


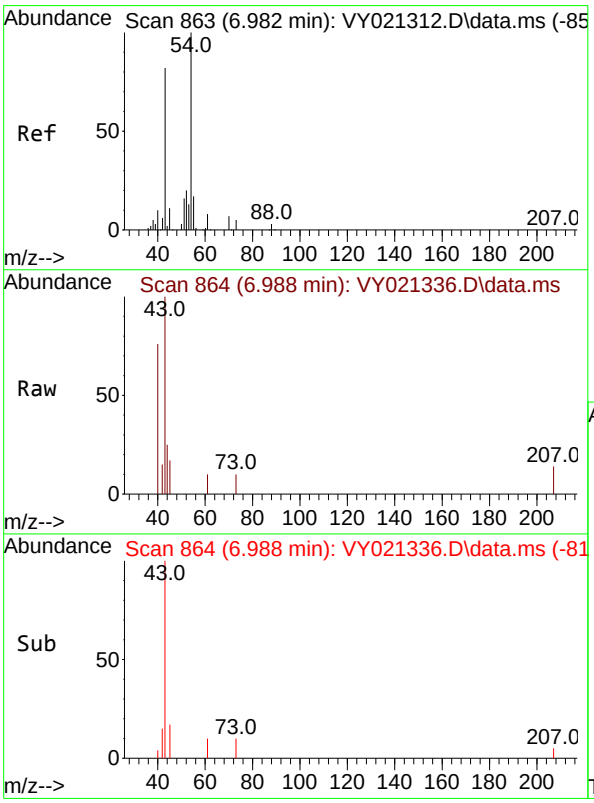
#35
Dibromofluoromethane
Concen: 50.340 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion:113 Resp: 128943

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.0	121.6
192	19.8	15.8	23.8

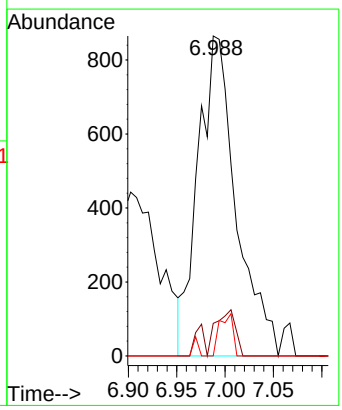


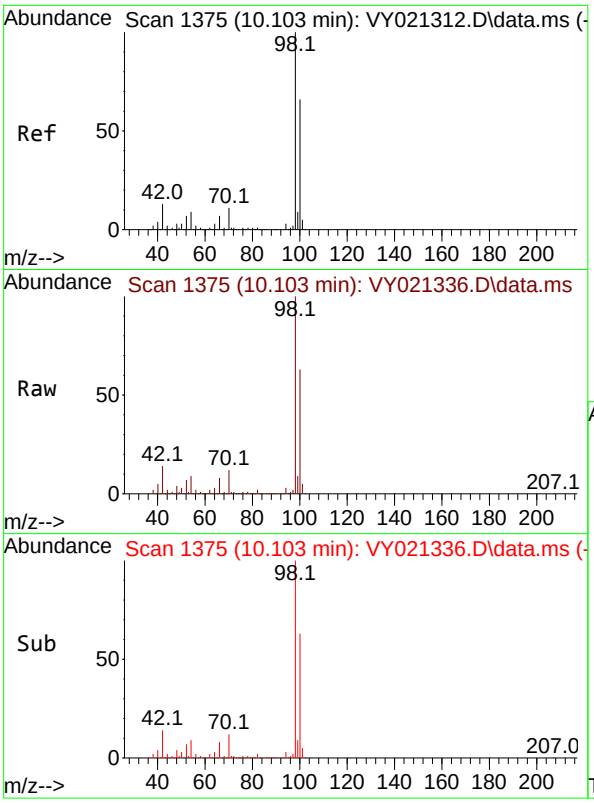


#37
Ethyl Acetate
Concen: 1.235 ug/l
RT: 6.988 min Scan# 864
Delta R.T. 0.006 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion: 43 Resp: 2363

Ion	Ratio	Lower	Upper
43	100		
61	7.4	10.4	15.6#
70	4.7	7.5	11.3#



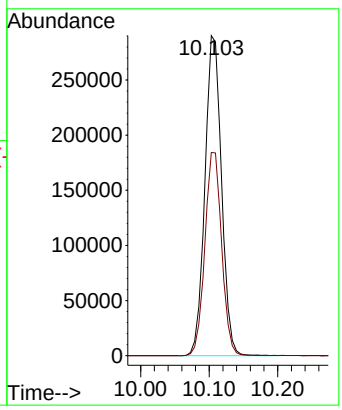


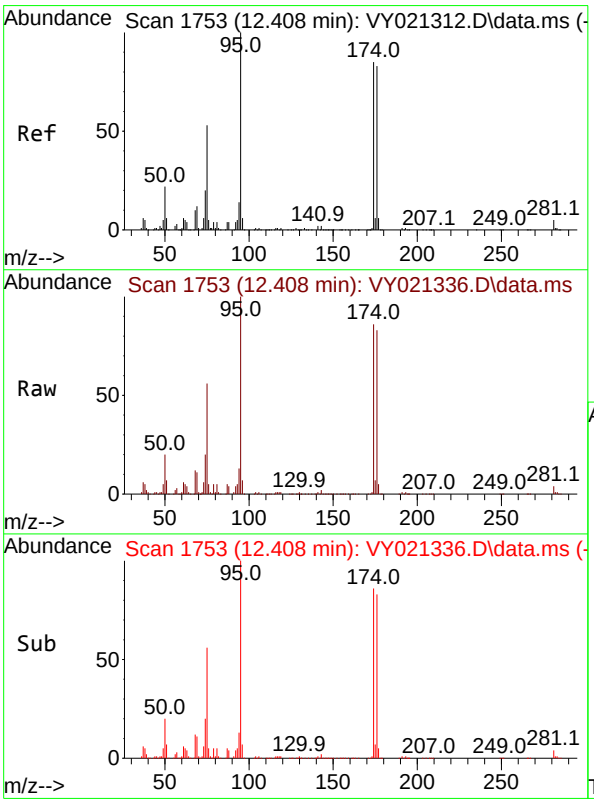
#50
Toluene-d8
Concen: 49.456 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion: 98 Resp: 489572

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.4	78.6

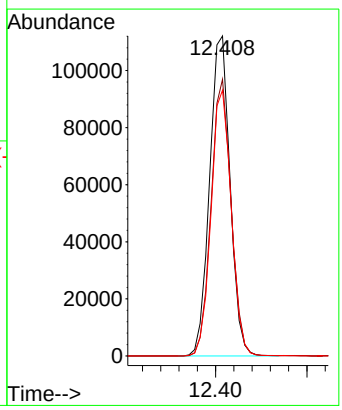


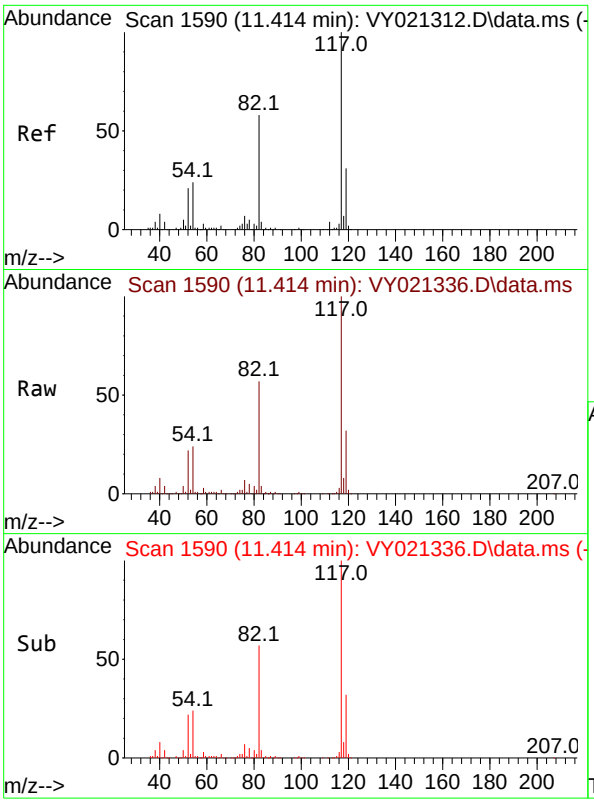


#62
4-Bromofluorobenzene
Concen: 52.204 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion: 95 Resp: 173918

Ion	Ratio	Lower	Upper
95	100		
174	84.4	0.0	168.0
176	82.3	0.0	162.6



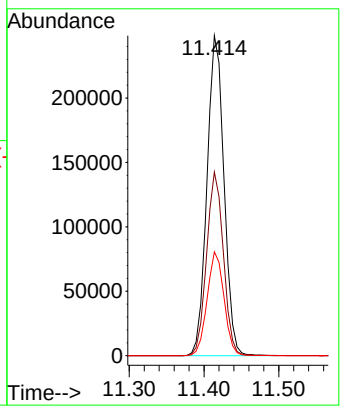


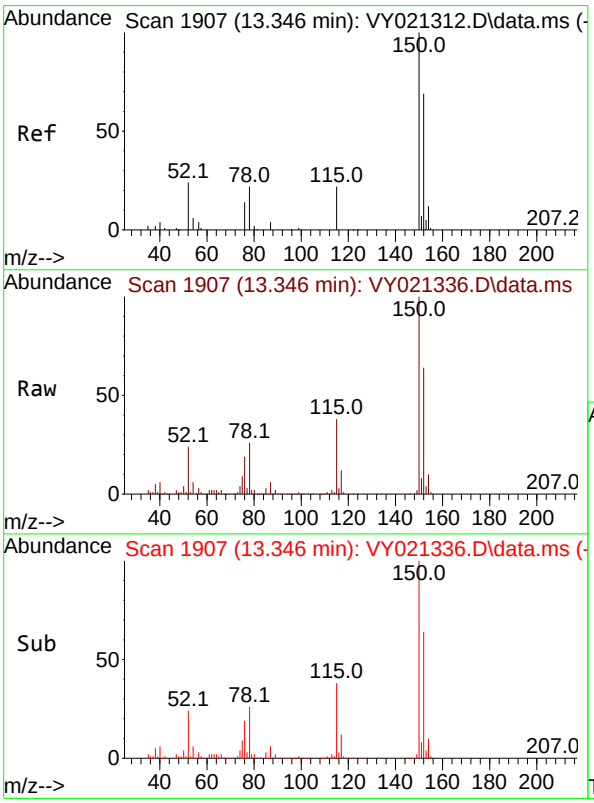
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion:117 Resp: 393465

Ion	Ratio	Lower	Upper
117	100		
82	57.4	46.2	69.4
119	32.5	24.9	37.3

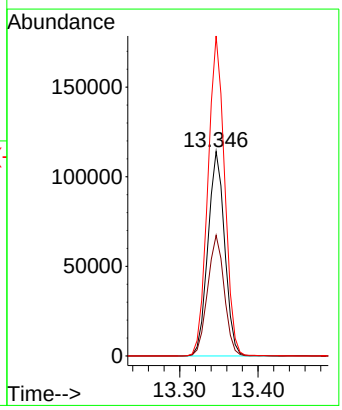




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion:152 Resp: 168735

Ion	Ratio	Lower	Upper
152	100		
115	58.8	29.3	88.0
150	156.7	0.0	347.4



Sample Results: **VY021336.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021336.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.330	252	264	281	rBV	35198	119874	1.14%	0.683%
2	7.634	960	970	976	rBV	186272	439695	4.20%	2.505%
3	7.707	976	982	996	rVB	267458	599616	5.72%	3.416%
4	8.061	1030	1040	1053	rBV	157246	346867	3.31%	1.976%
5	8.616	1118	1131	1142	rBV	470699	936679	8.94%	5.336%
6	10.103	1367	1375	1391	rBV	780448	1333630	12.73%	7.597%
7	10.493	1432	1439	1459	rBV	6818516	10478159	100.00%	59.688%
8	11.414	1582	1590	1604	rBV	797816	1263307	12.06%	7.196%
9	12.408	1744	1753	1764	rVB	611973	975196	9.31%	5.555%
10	13.346	1900	1907	1916	rVB	712432	1061955	10.13%	6.049%

Sum of corrected areas: 17554978

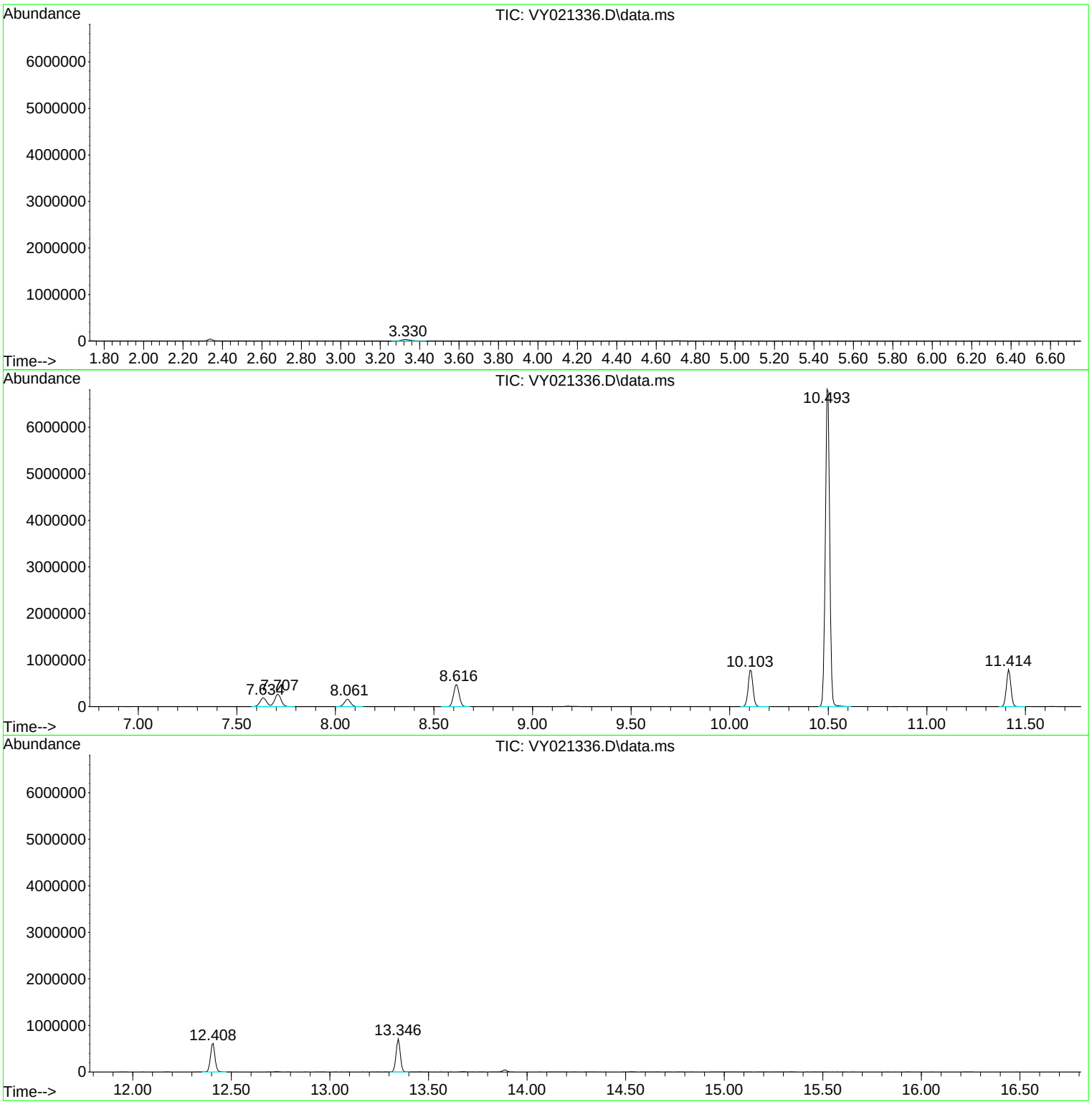
Sample Results: **VY021336.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

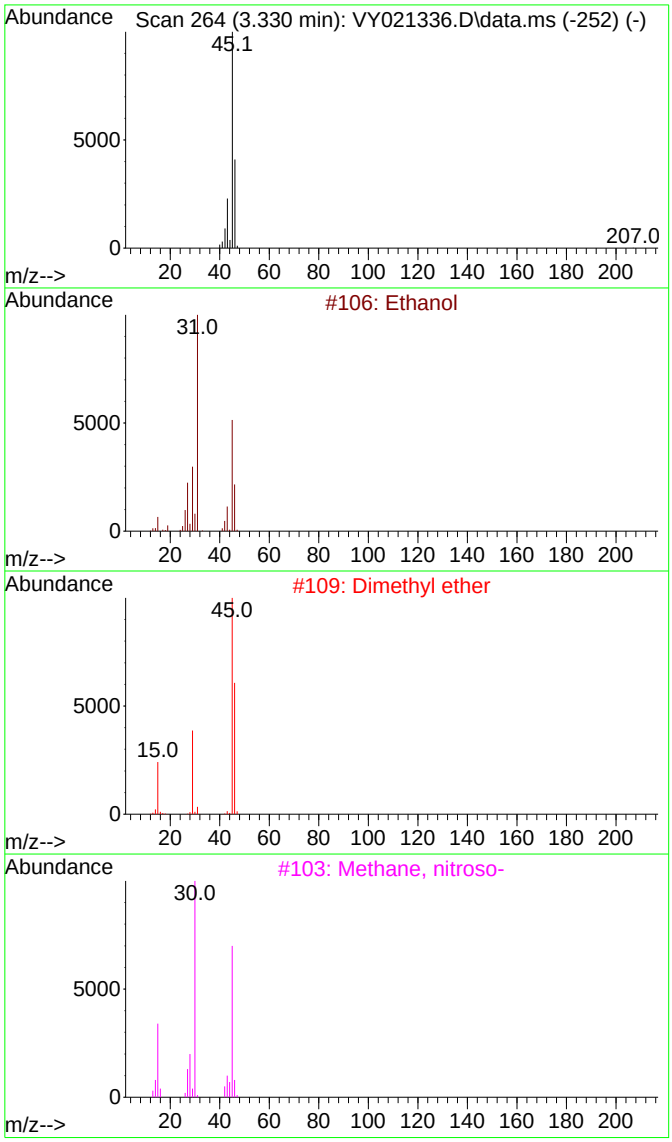
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

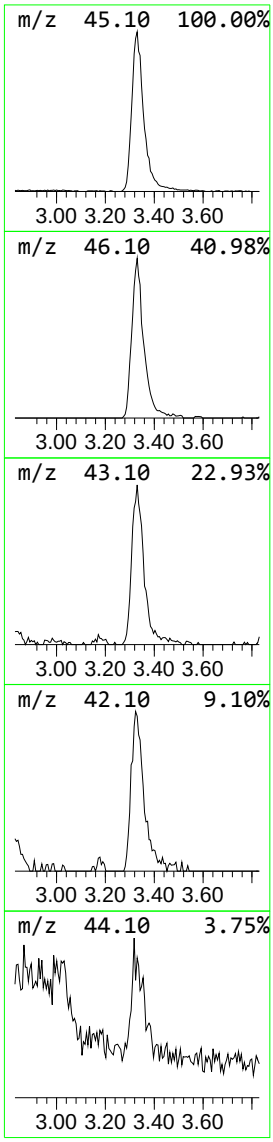
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Ethanol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.330	10.00 ug/l	119874	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol	46	C2H6O	000064-17-5	74
2	Dimethyl ether	46	C2H6O	000115-10-6	9
3	Methane, nitroso-	45	CH3NO	000865-40-7	4
4	Formic acid	46	CH2O2	000064-18-6	4
5	Oxalic acid	90	C2H2O4	000144-62-7	4





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

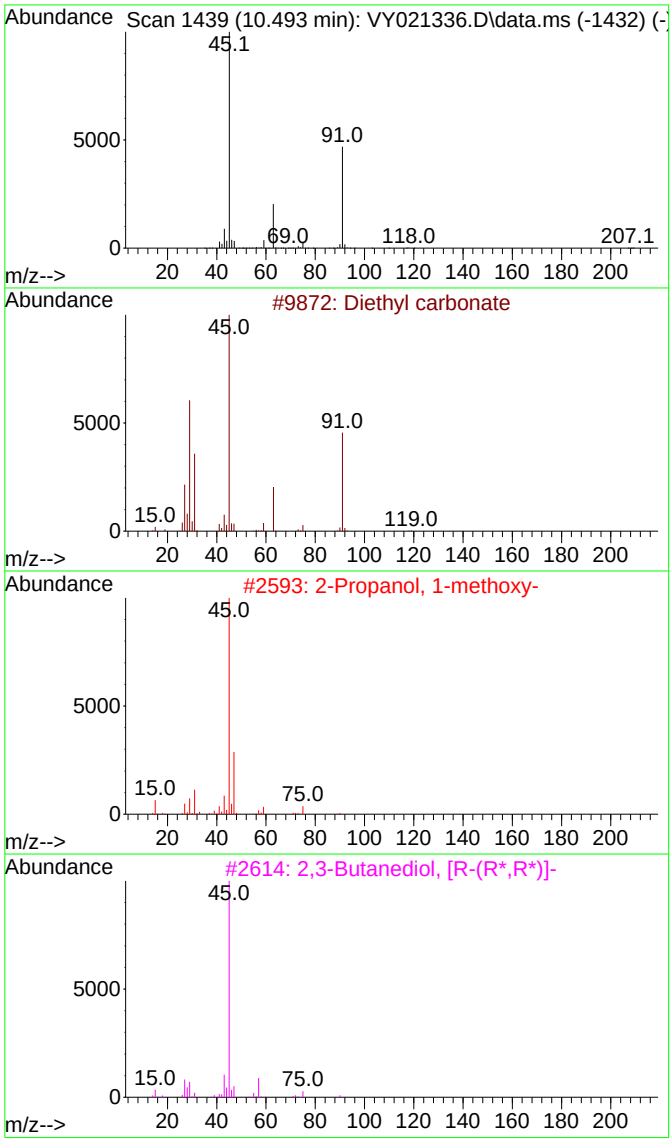
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

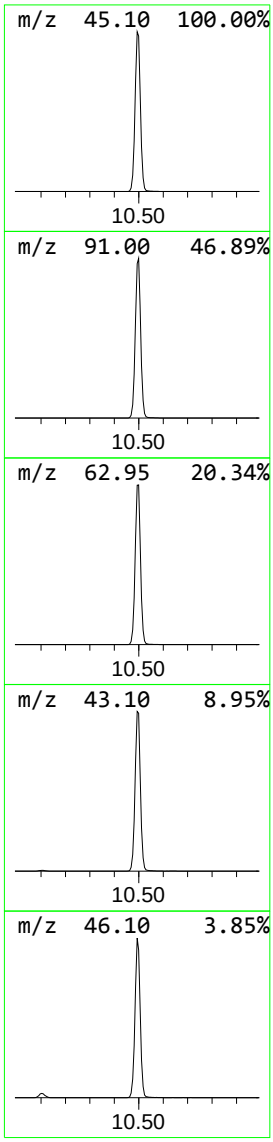
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Diethyl carbonate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.493	414.71 ug/l	10478200	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyl carbonate	118	C5H10O3	000105-58-8	83
2	2-Propanol, 1-methoxy-	90	C4H10O2	000107-98-2	36
3	2,3-Butanediol, [R-(R*,R*)]-	90	C4H10O2	024347-58-8	9
4	2,3-Butanediol	90	C4H10O2	000513-85-9	9
5	Butane, 1-methoxy-	88	C5H12O	000628-28-4	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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
Ethanol	3.330	10.0	ug/l	119874	1	7.707	599616	50.0
Diethyl carbonate	10.493	414.7	ug/l	10478200	3	11.414	1263310	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Time: Feb 27 00:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

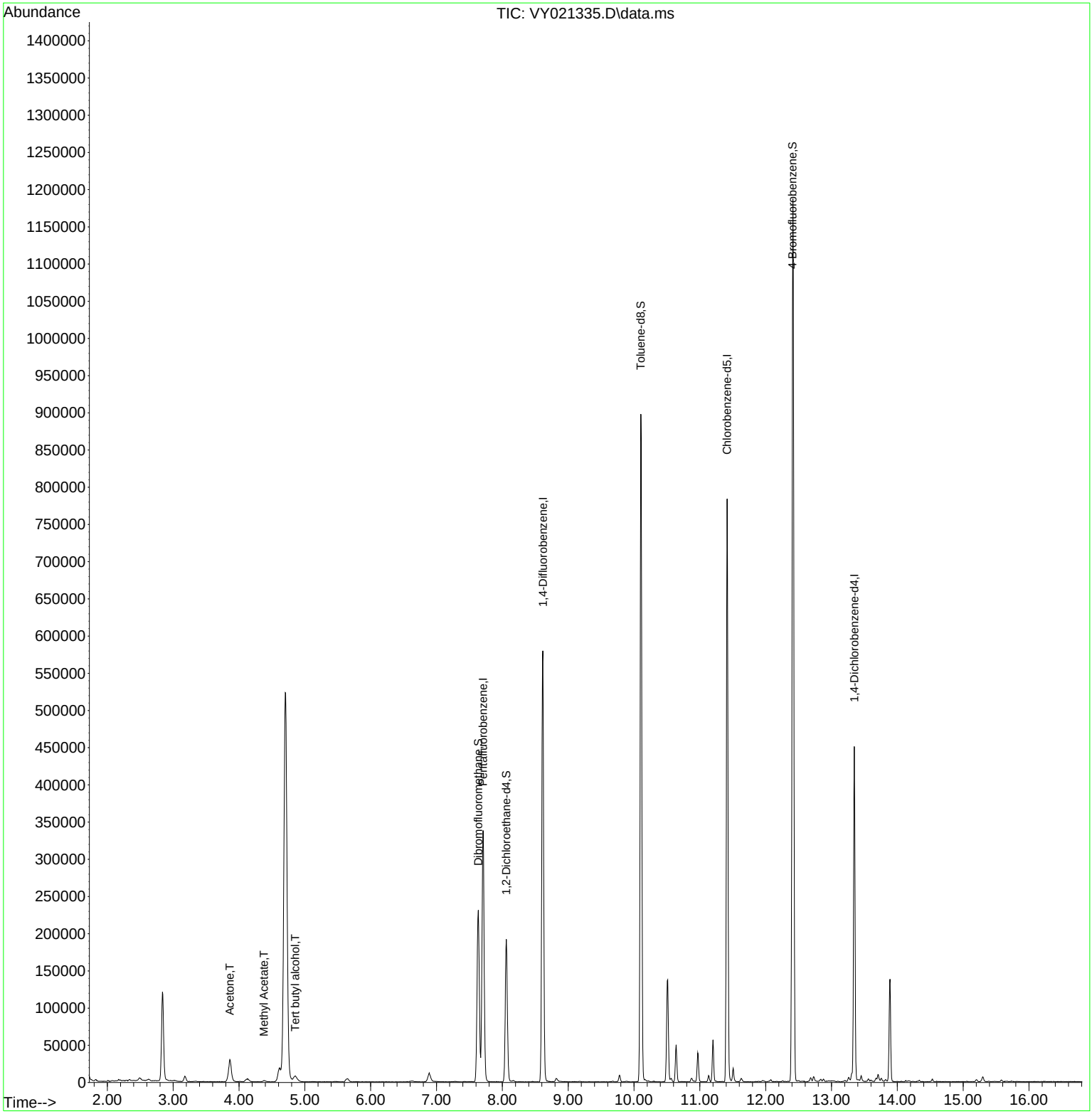
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	249275	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	482876	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	393781	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	105850	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151894	53.714	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.420%			
35) Dibromofluoromethane	7.634	113	161939	51.153	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.300%			
50) Toluene-d8	10.103	98	564176	46.112	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.220%			
62) 4-Bromofluorobenzene	12.408	95	145923	35.439	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 70.880%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.854	59	14036	64.530	ug/l	100
16) Acetone	3.860	43	40345	74.377	ug/l	94
18) Methyl Acetate	4.379	43	3594	2.711	ug/l	94

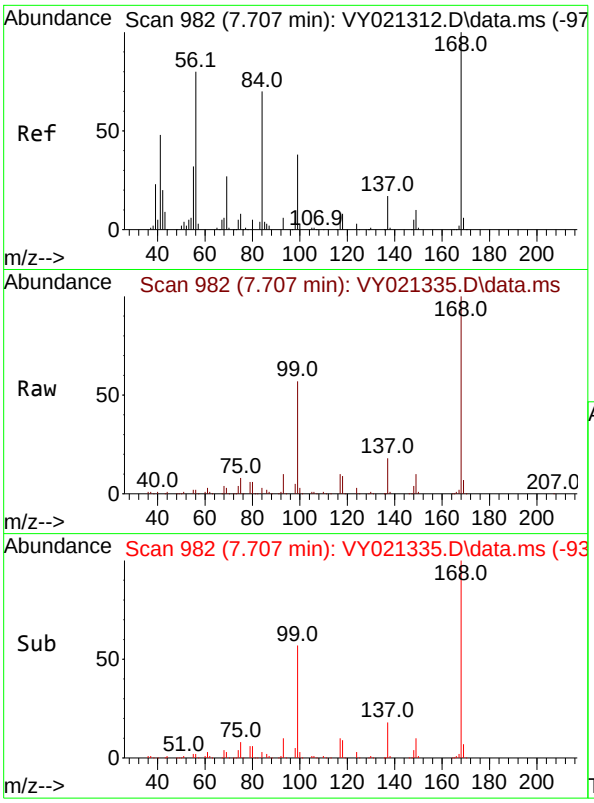
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Time: Feb 27 00:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



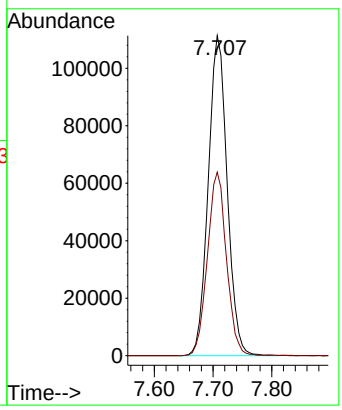


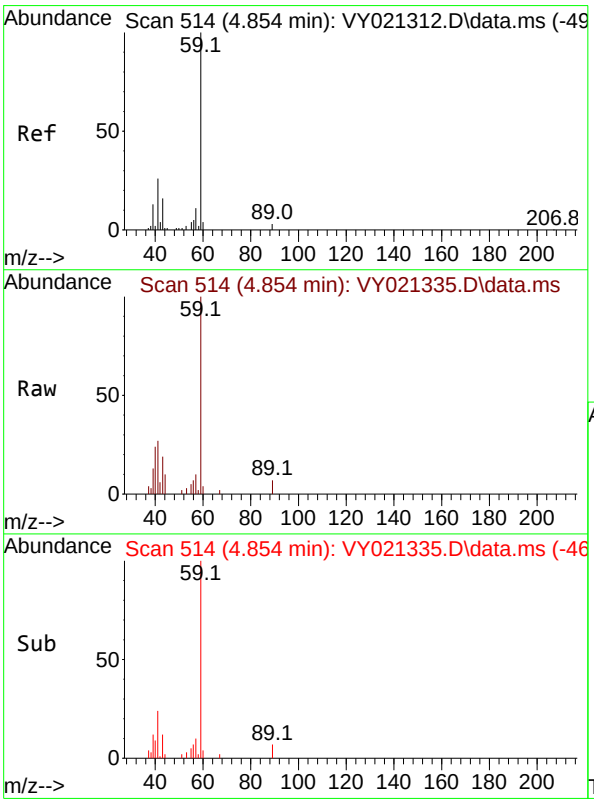
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion:168 Resp: 249275

Ion	Ratio	Lower	Upper
168	100		
99	57.4	47.1	70.7

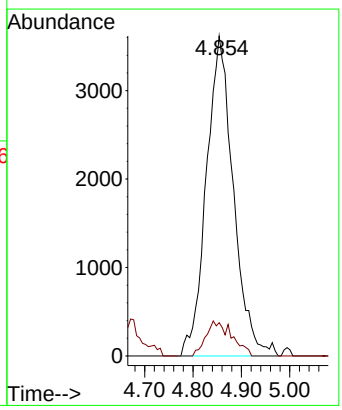


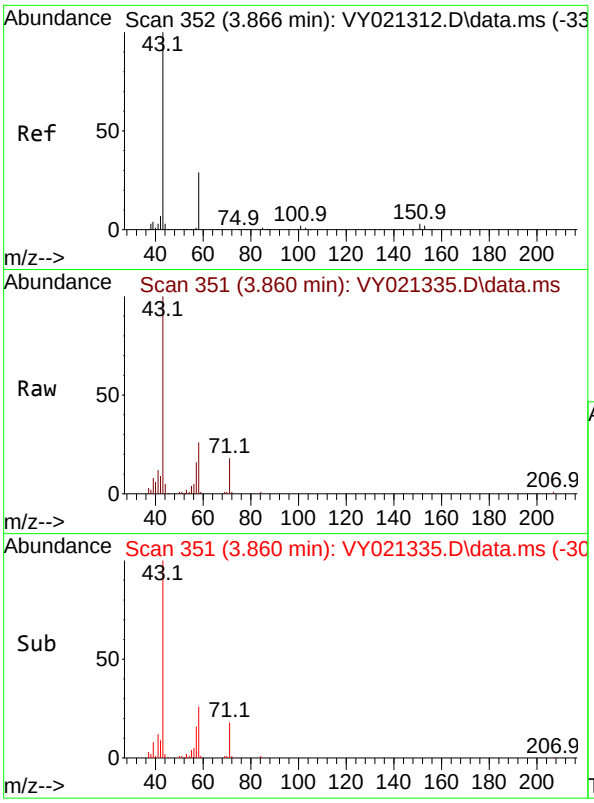


#11
Tert butyl alcohol
Concen: 64.530 ug/l
RT: 4.854 min Scan# 514
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion: 59 Resp: 14036

Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.3	12.5



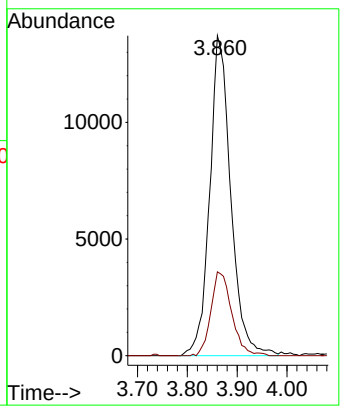


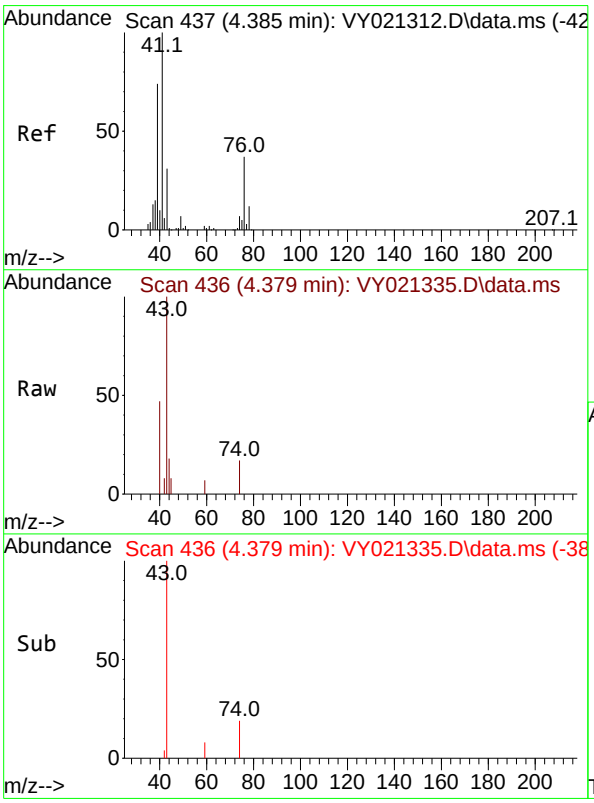
#16
Acetone
Concen: 74.377 ug/l
RT: 3.860 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion: 43 Resp: 40345

Ion	Ratio	Lower	Upper
43	100		
58	26.2	23.5	35.3

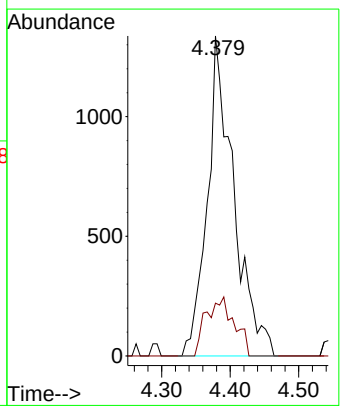


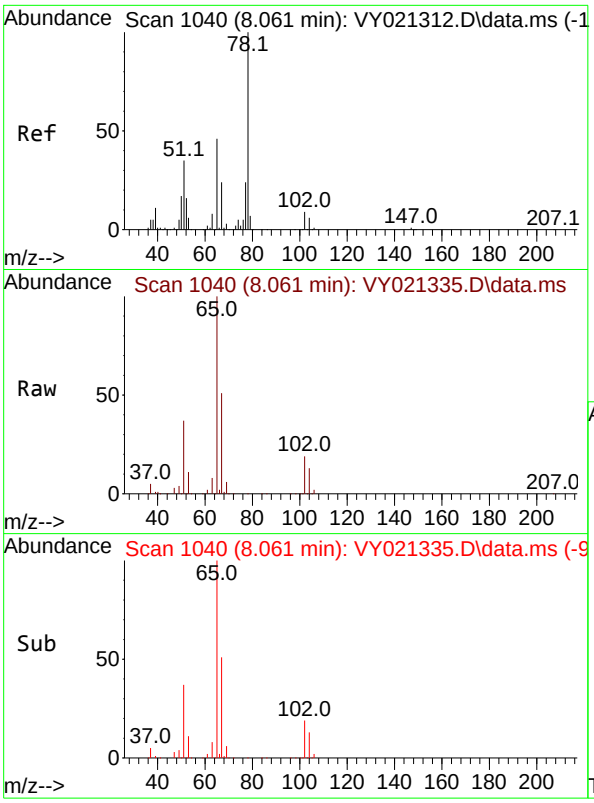


#18
Methyl Acetate
Concen: 2.711 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion: 43 Resp: 3594

Ion	Ratio	Lower	Upper
43	100		
74	19.4	17.7	26.5



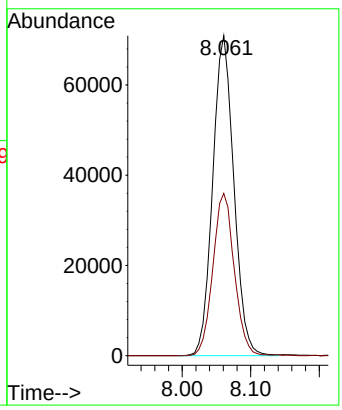


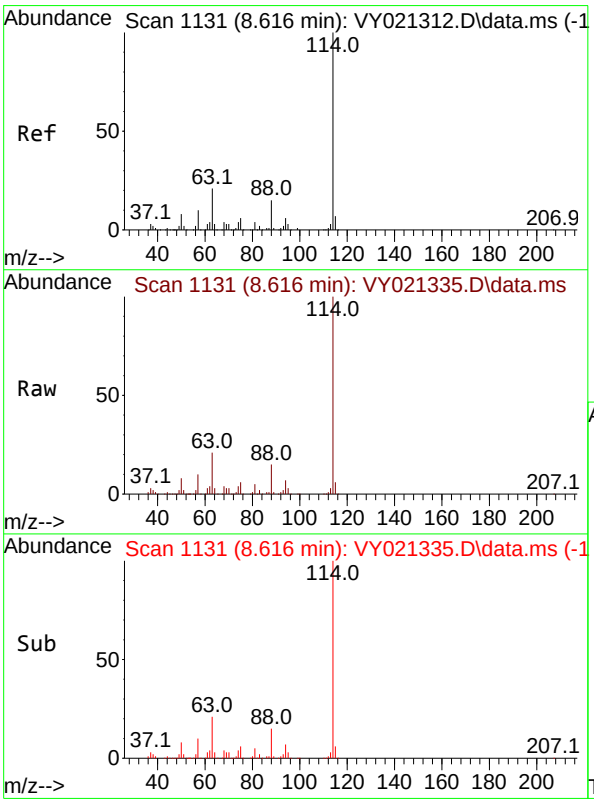
#33
1,2-Dichloroethane-d4
Concen: 53.714 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion: 65 Resp: 151894

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.6

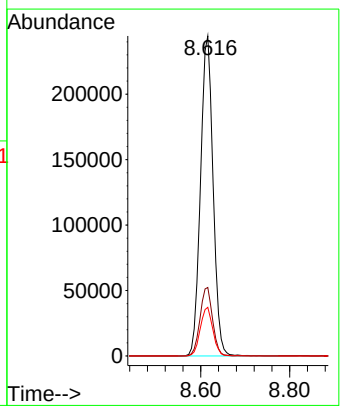


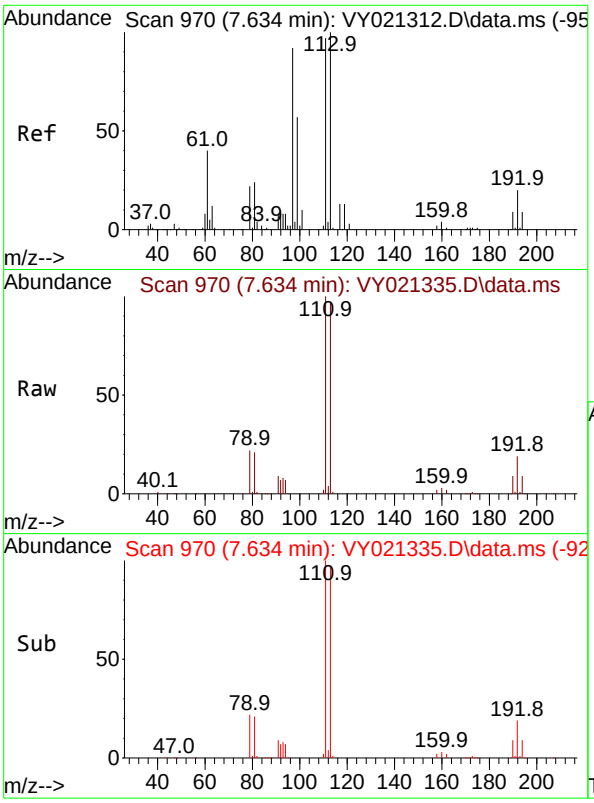


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion:114 Resp: 482876

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.2
88	15.2	0.0	29.8



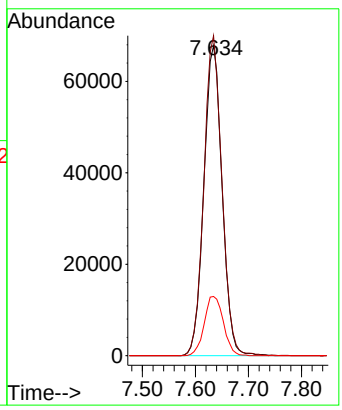


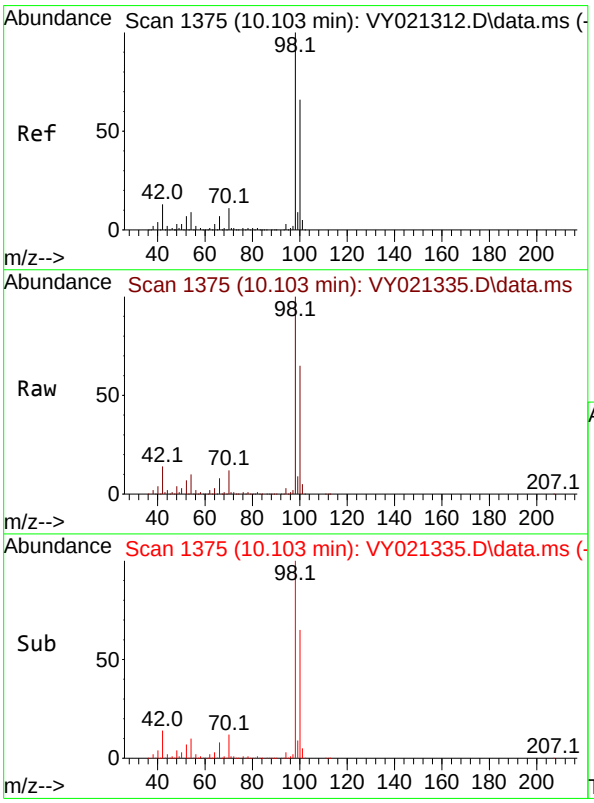
#35
Dibromofluoromethane
Concen: 51.153 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion:113 Resp: 161939

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.0	121.6
192	20.1	15.8	23.8

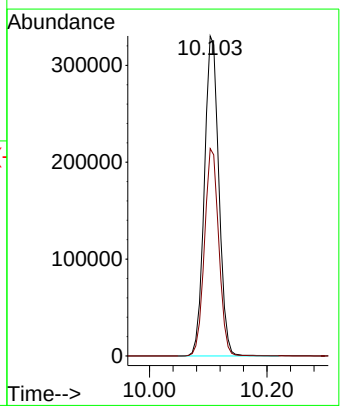


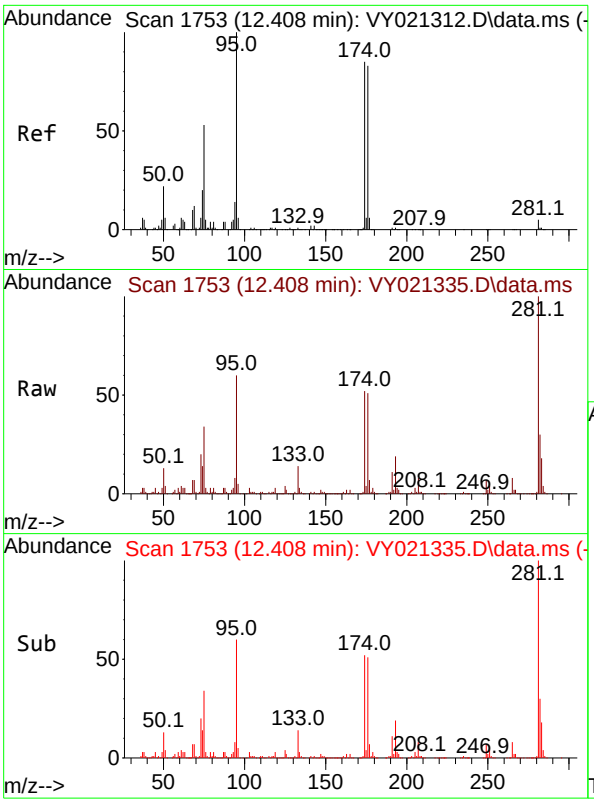


#50
Toluene-d8
Concen: 46.112 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion: 98 Resp: 564176

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.4	78.6



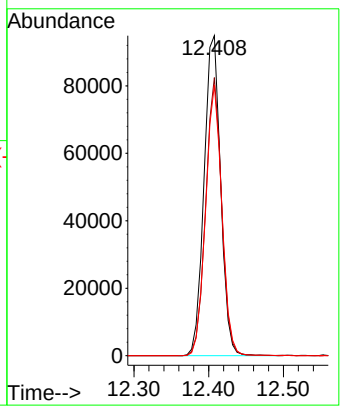


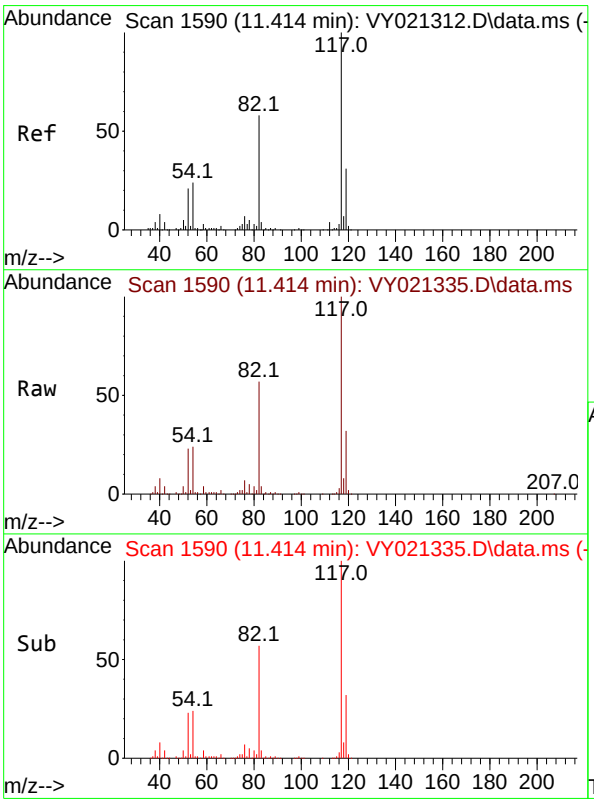
#62
4-Bromofluorobenzene
Concen: 35.439 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion: 95 Resp: 145923

Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	168.0
176	83.0	0.0	162.6

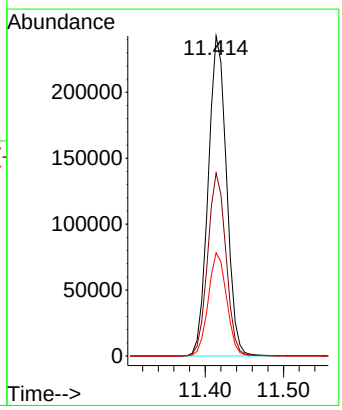


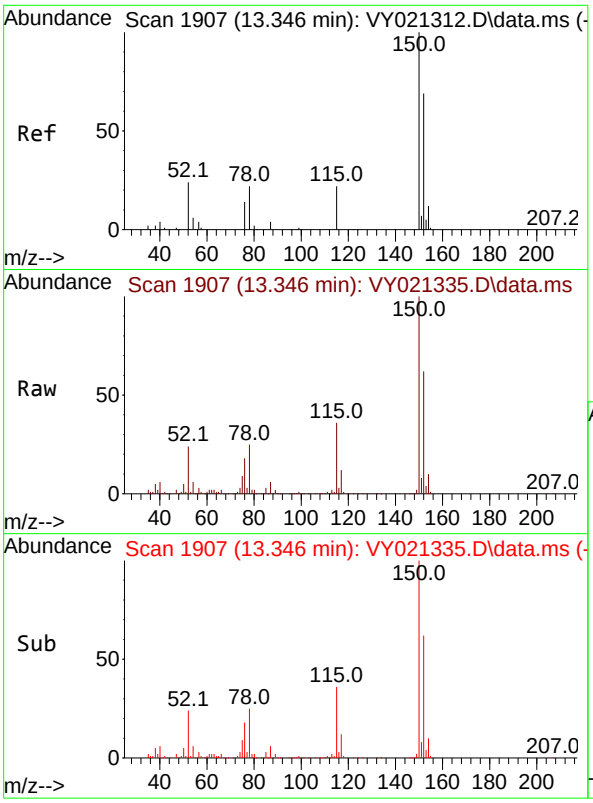


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion:117 Resp: 393781

Ion	Ratio	Lower	Upper
117	100		
82	57.1	46.2	69.4
119	32.3	24.9	37.3



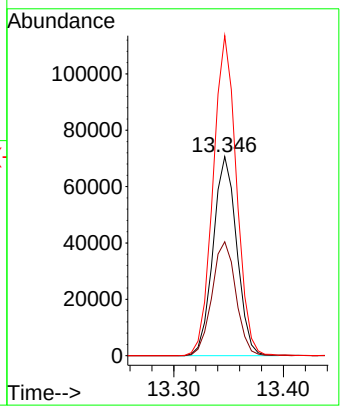


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion:152 Resp: 105850

Ion	Ratio	Lower	Upper
152	100		
115	57.9	29.3	88.0
150	159.3	0.0	347.4



Sample Results: **VY021335.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021335.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.836	174	183	194	rBV	119277	261692	11.74%	2.263%
2	3.860	339	351	367	rBV3	29716	90674	4.07%	0.784%
3	4.610	463	474	477	rBV4	18421	48701	2.18%	0.421%
4	4.702	478	489	507	rVV	522947	1773885	79.58%	15.338%
5	4.854	507	514	530	rVB3	7818	31167	1.40%	0.269%
6	6.890	838	848	859	rBV2	12071	35528	1.59%	0.307%
7	7.634	958	970	976	rBV	230749	555702	24.93%	4.805%
8	7.707	976	982	995	rVB	337484	754826	33.86%	6.527%
9	8.061	1030	1040	1052	rBV	191538	421580	18.91%	3.645%
10	8.616	1122	1131	1141	rBV	579095	1155210	51.83%	9.989%
11	10.103	1367	1375	1384	rBV	897141	1526131	68.47%	13.196%
12	10.512	1433	1442	1448	rBV	137113	260251	11.68%	2.250%
13	10.640	1456	1463	1470	rVB	49716	78860	3.54%	0.682%
14	10.969	1511	1517	1526	rVB	38983	62842	2.82%	0.543%
15	11.200	1549	1555	1561	rBV	56263	83241	3.73%	0.720%
16	11.414	1582	1590	1601	rBV	783401	1272890	57.11%	11.006%
17	11.505	1601	1605	1615	rVB	18108	28522	1.28%	0.247%
18	12.414	1744	1754	1764	rBV2	1186429	2229010	100.00%	19.273%
19	13.346	1901	1907	1915	rVB	447825	673192	30.20%	5.821%
20	13.889	1989	1996	2003	rVB2	137410	221476	9.94%	1.915%

Sum of corrected areas: 11565380

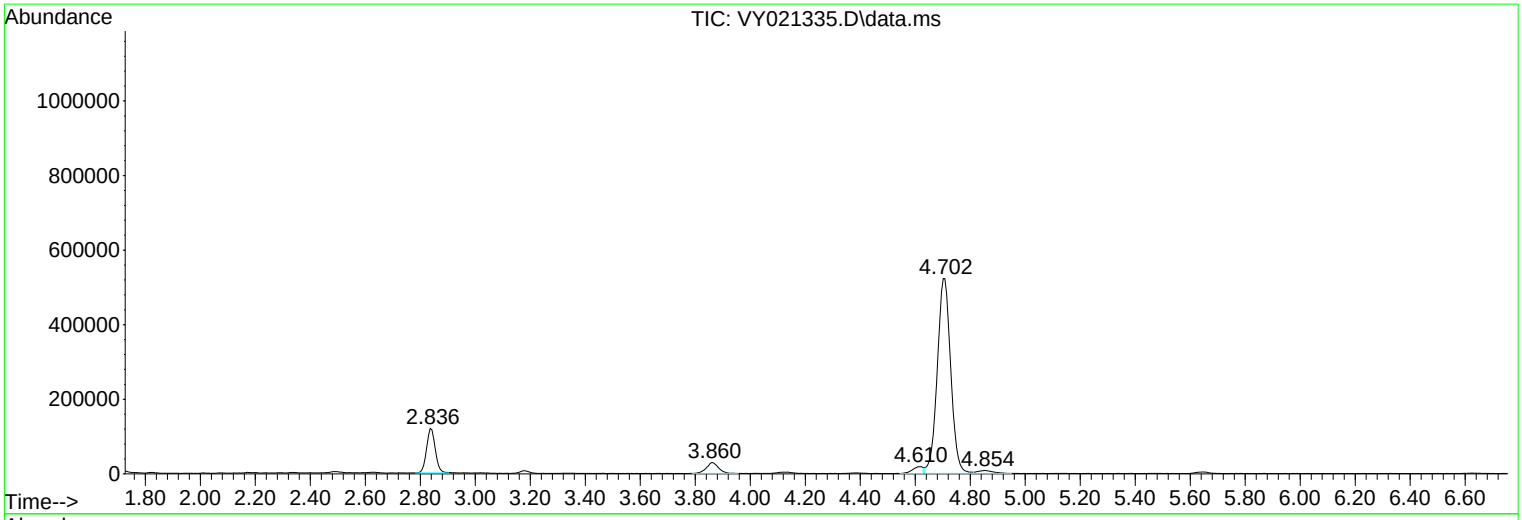
Sample Results: **VY021335.D**

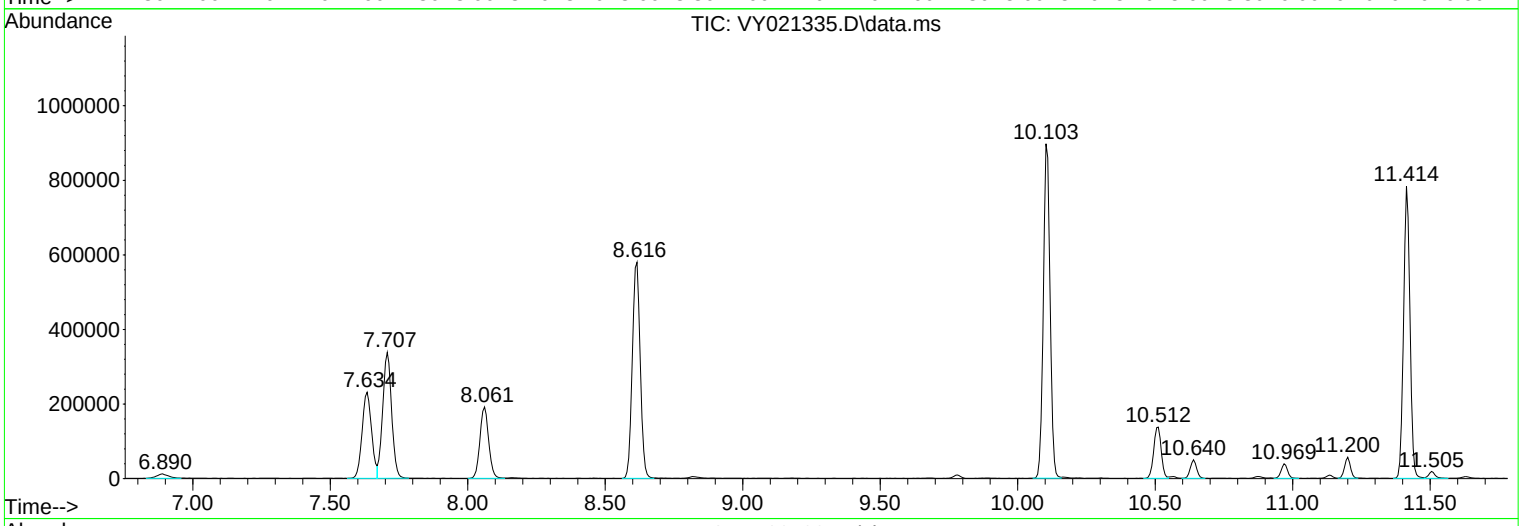
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

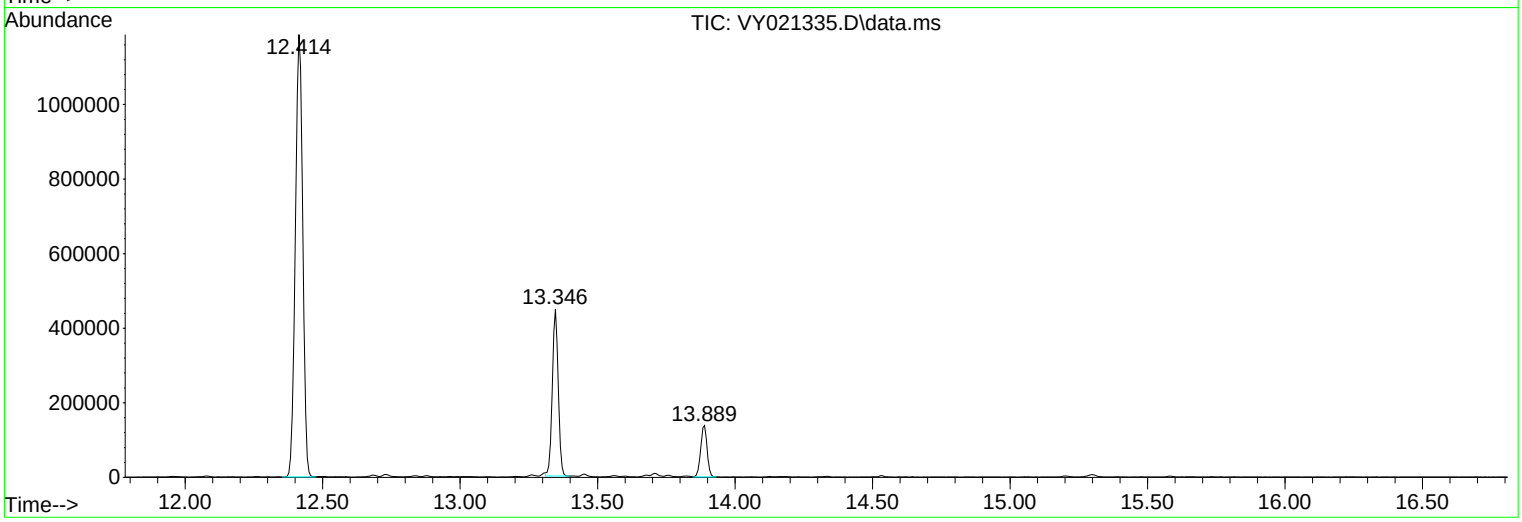
Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

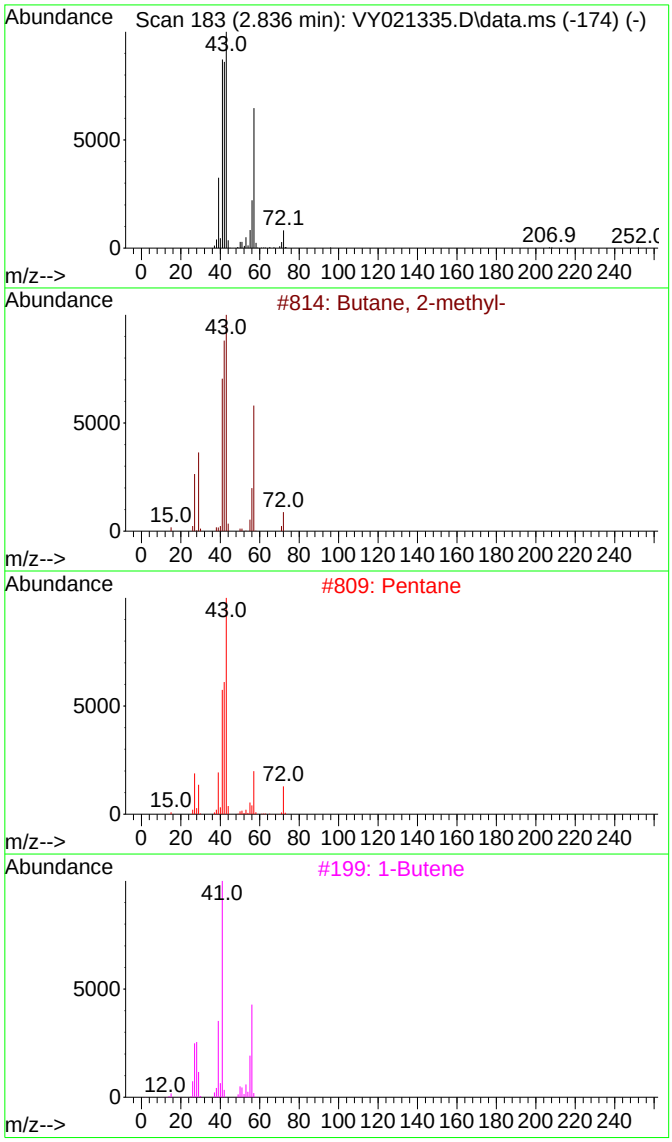
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

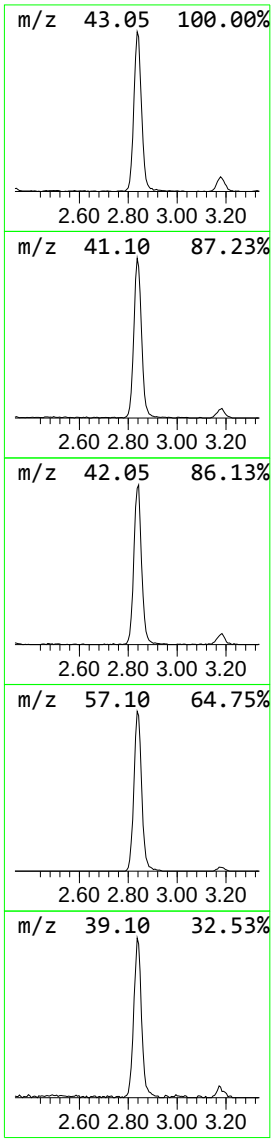
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.836	17.33 ug/l	261692	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Pentane	72	C5H12	000109-66-0	42
3	1-Butene	56	C4H8	000106-98-9	14
4	Butane, 1-isocyano-	83	C5H9N	002769-64-4	12
5	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	12





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

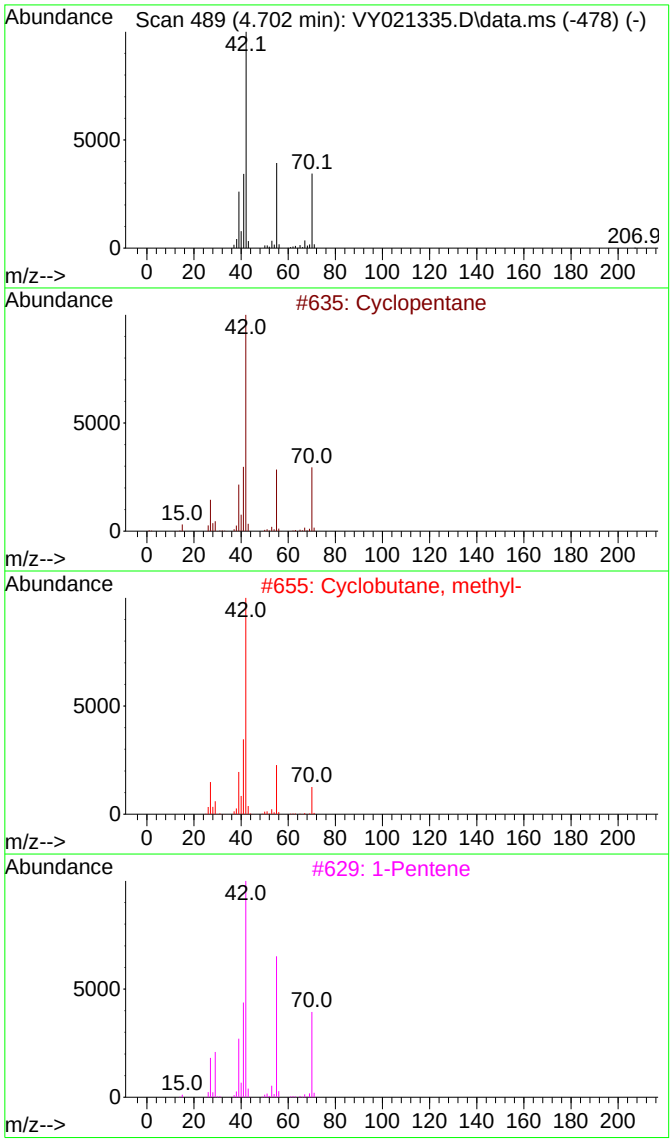
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

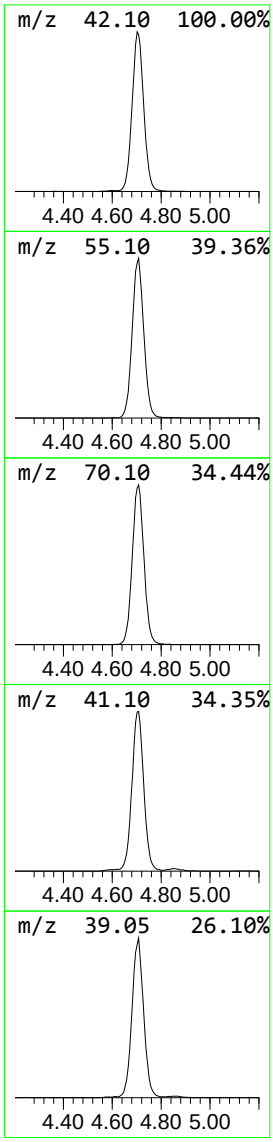
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Cyclopentane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.702	117.50 ug/l	1773890	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	90
2	Cyclobutane, methyl-	70	C5H10	000598-61-8	86
3	1-Pentene	70	C5H10	000109-67-1	49
4	Cyclopropane, ethyl-	70	C5H10	001191-96-4	9
5	Cyclobutanone	70	C4H6O	001191-95-3	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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
Butane, 2-methyl-	2.836	17.3	ug/l	261692	1	7.707	754826	50.0
Cyclopentane	4.702	117.5	ug/l	1773890	1	7.707	754826	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Time: Feb 27 00:40:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

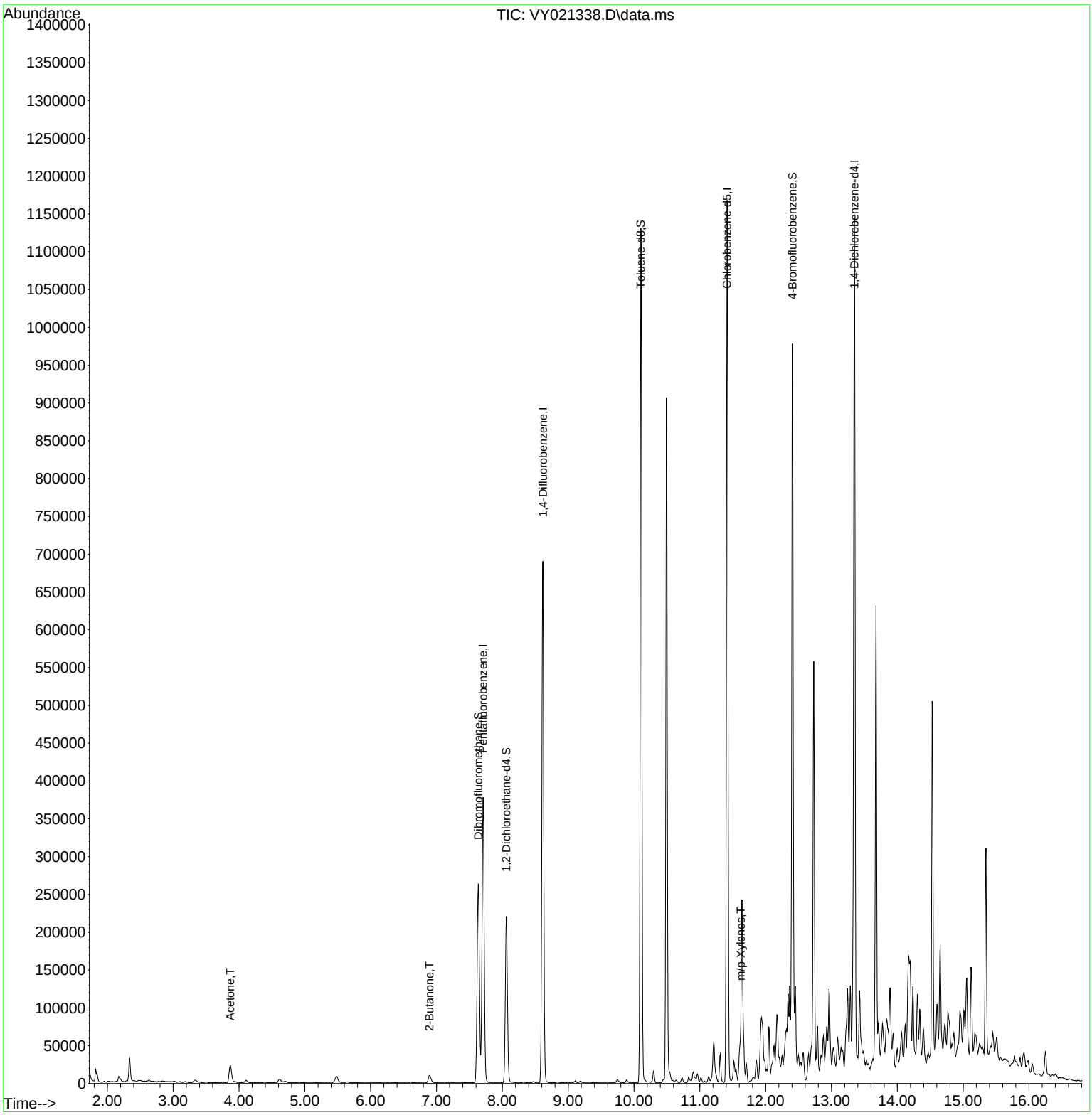
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	278202	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	557389	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	583706	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	249107	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	174903	55.420	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.840%			
35) Dibromofluoromethane	7.634	113	184126	50.386	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.780%			
50) Toluene-d8	10.103	98	709070	50.207	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.420%			
62) 4-Bromofluorobenzene	12.408	95	267792	56.342	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 112.680%			
Target Compounds						Qvalue
16) Acetone	3.866	43	41560	68.650	ug/l	98
25) 2-Butanone	6.890	43	17344	18.983	ug/l	97
68) m/p-Xylenes	11.621	106	10321	1.182	ug/l	98

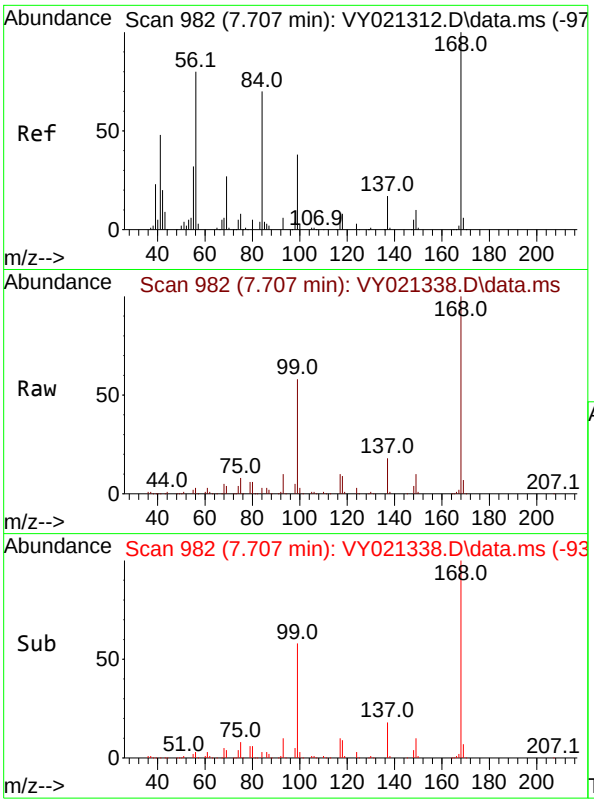
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Time: Feb 27 00:40:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



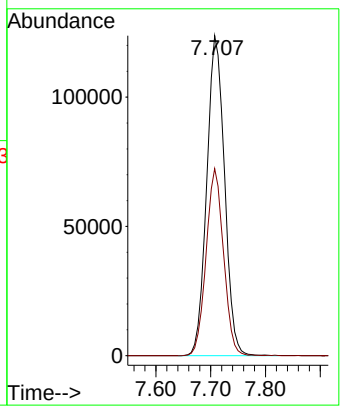


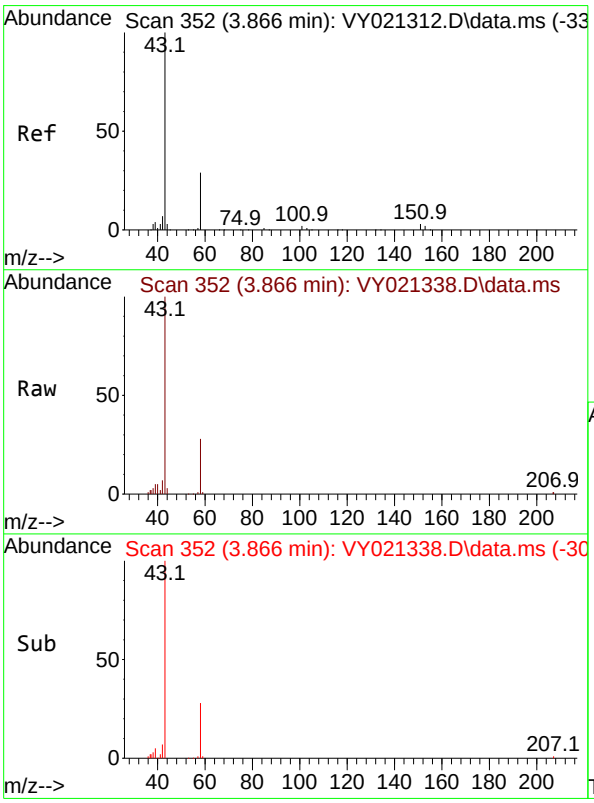
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion:168 Resp: 278202

Ion	Ratio	Lower	Upper
168	100		
99	58.4	47.1	70.7

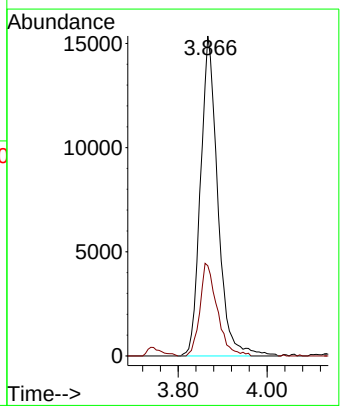


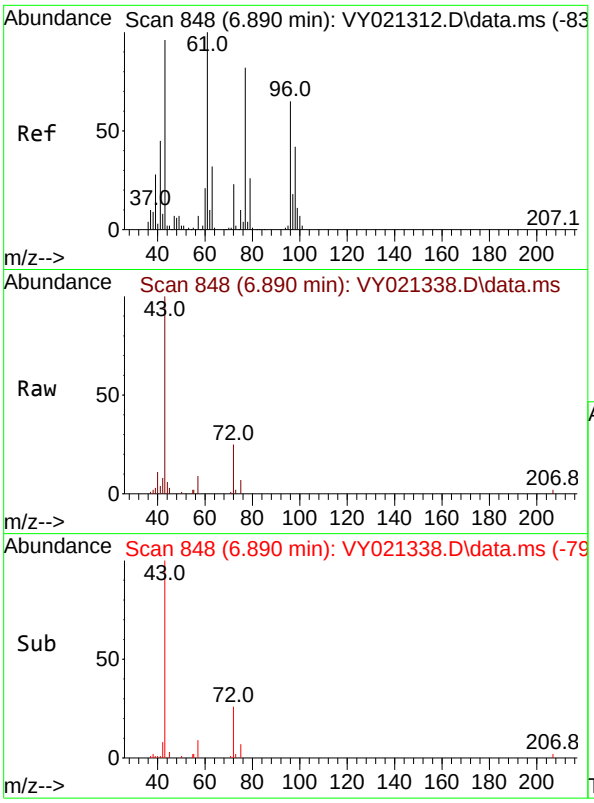


#16
Acetone
Concen: 68.650 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion: 43 Resp: 41560

Ion	Ratio	Lower	Upper
43	100		
58	28.2	23.5	35.3



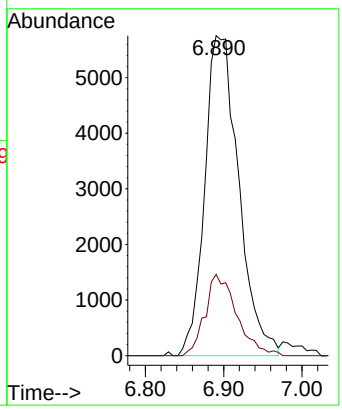


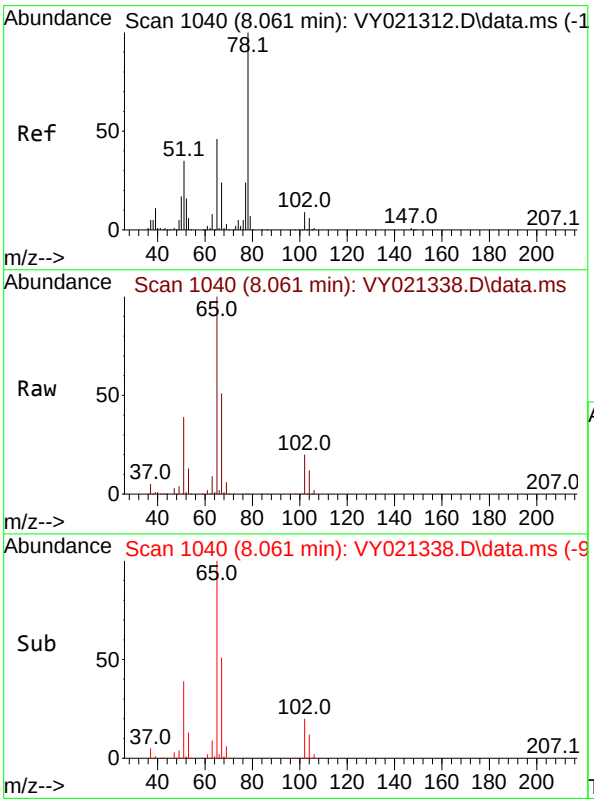
#25
2-Butanone
Concen: 18.983 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion: 43 Resp: 17344

Ion	Ratio	Lower	Upper
43	100		
72	25.4	19.0	28.6

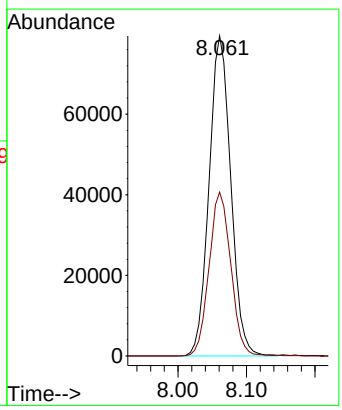


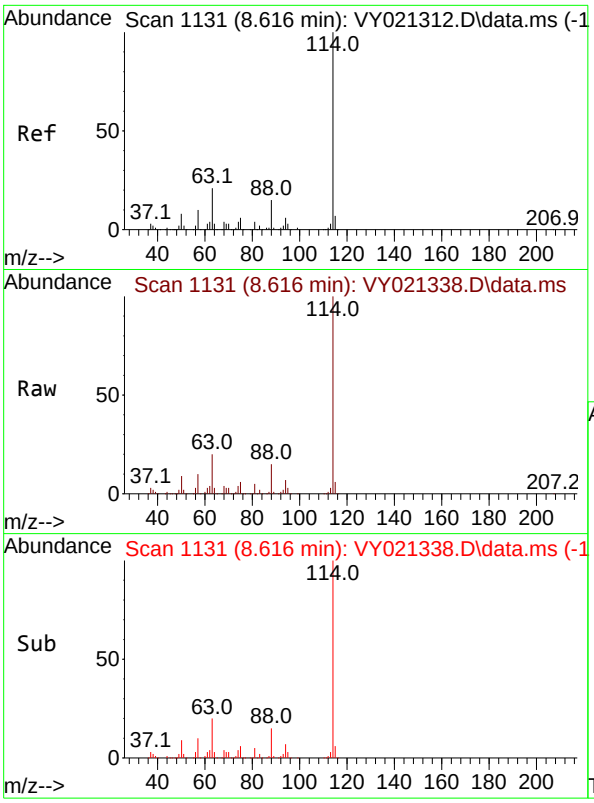


#33
1,2-Dichloroethane-d4
Concen: 55.420 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion: 65 Resp: 174903

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.6



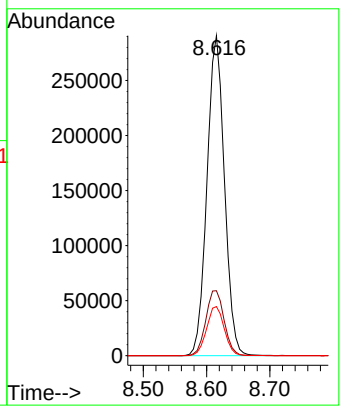


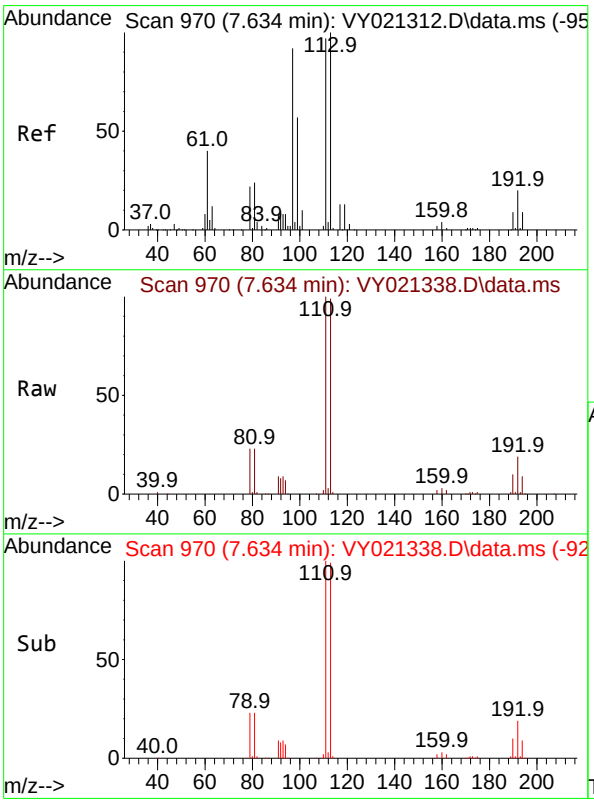
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion:114 Resp: 557389

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.2
88	15.3	0.0	29.8

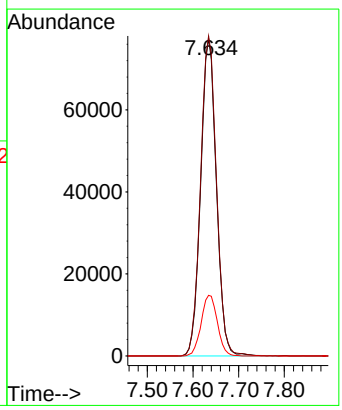


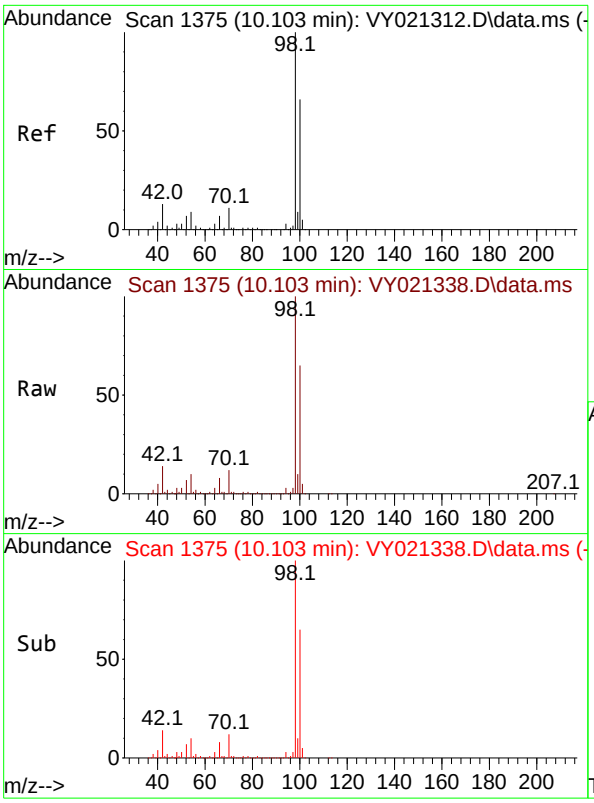


#35
Dibromofluoromethane
Concen: 50.386 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion:113 Resp: 184126

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.0	121.6
192	19.8	15.8	23.8



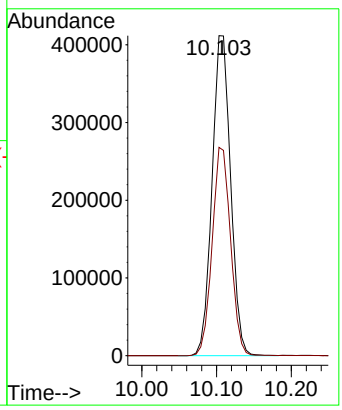


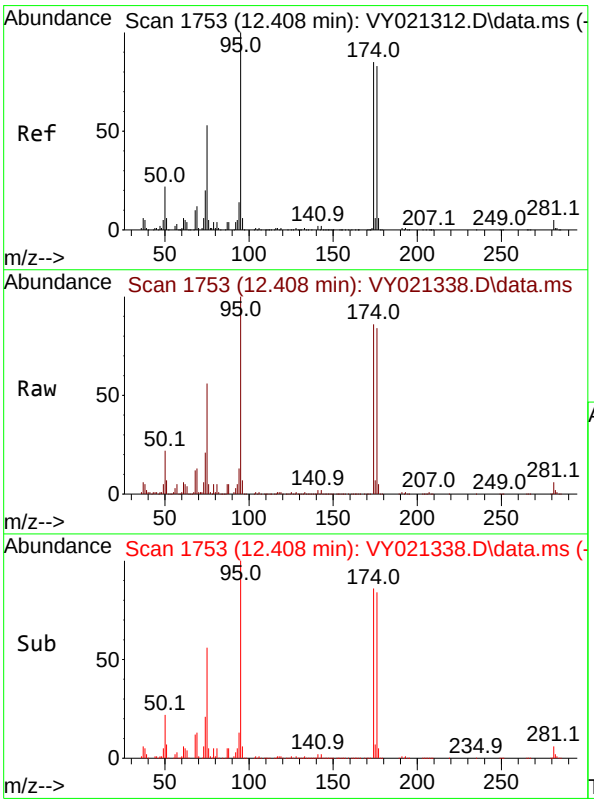
#50
Toluene-d8
Concen: 50.207 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion: 98 Resp: 709070

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.4	78.6

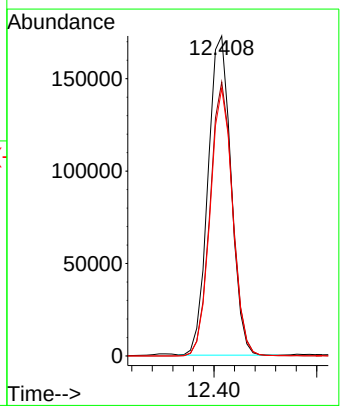


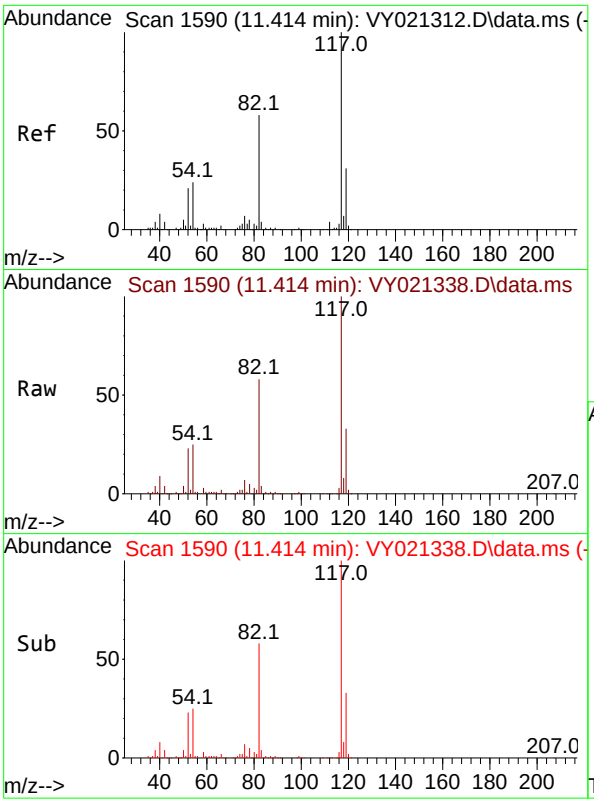


#62
4-Bromofluorobenzene
Concen: 56.342 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion: 95 Resp: 267792

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	168.0
176	82.1	0.0	162.6



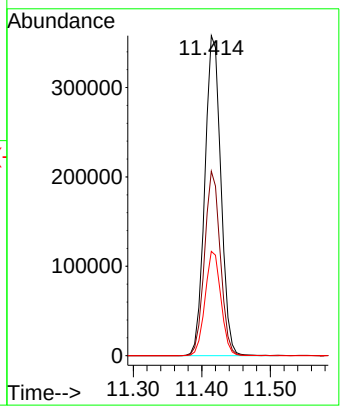


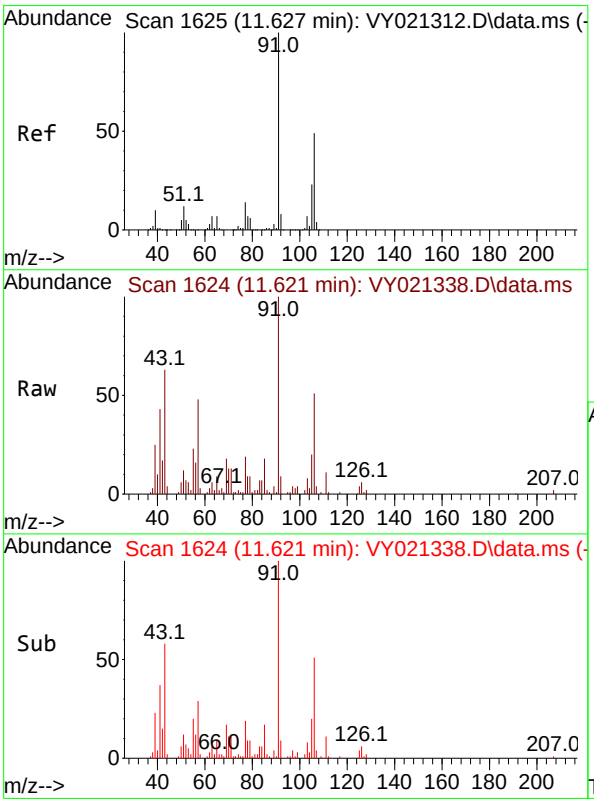
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion:117 Resp: 583706

Ion	Ratio	Lower	Upper
117	100		
82	57.6	46.2	69.4
119	32.6	24.9	37.3

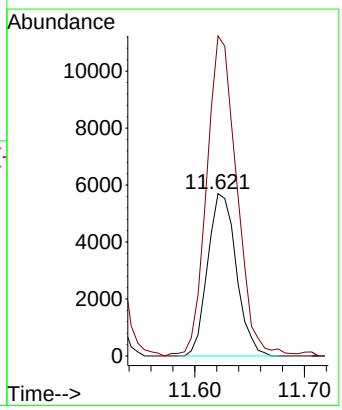


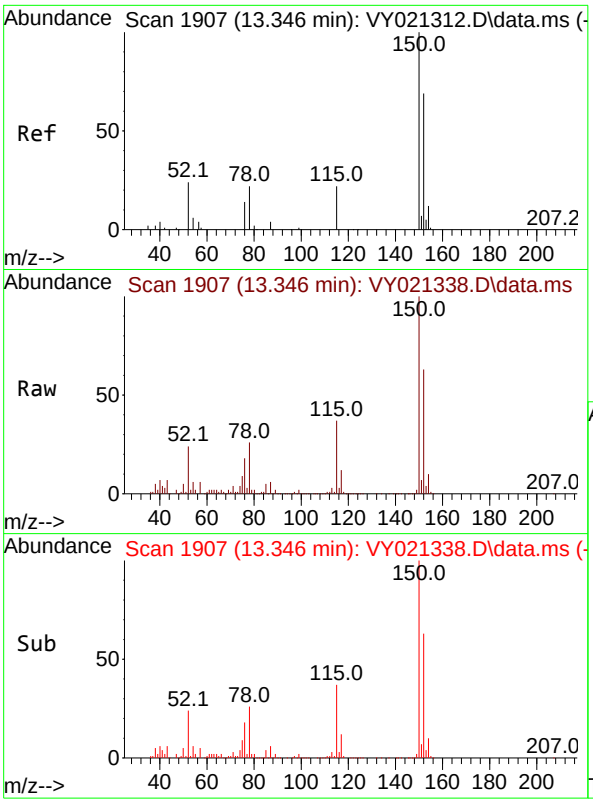


#68
m/p-Xylenes
Concen: 1.182 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.006 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion:106 Resp: 10321

Ion	Ratio	Lower	Upper
106	100		
91	207.8	163.9	245.9



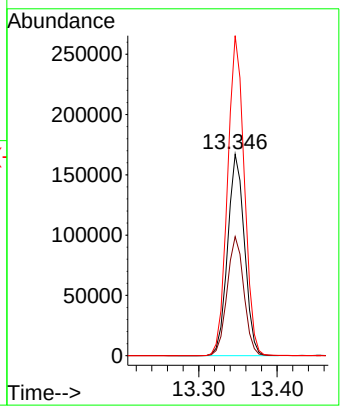


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion:152 Resp: 249107

Ion	Ratio	Lower	Upper
152	100		
115	59.0	29.3	88.0
150	158.7	0.0	347.4



Sample Results: **VY021338.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021338.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	19	rBV2	14988	19707	1.01%	0.095%
2	2.336	96	101	110	rBV	29599	50253	2.56%	0.242%
3	3.866	341	352	362	rBV2	23771	64005	3.27%	0.309%
4	5.476	603	616	632	rVB4	8849	30339	1.55%	0.146%
5	6.890	840	848	861	rBV	9902	29653	1.51%	0.143%
6	7.634	960	970	976	rBV	263299	629190	32.10%	3.036%
7	7.707	976	982	996	rVB	377383	842464	42.98%	4.065%
8	8.061	1031	1040	1053	rBV	220027	489646	24.98%	2.363%
9	8.616	1121	1131	1146	rBV	689882	1346593	68.70%	6.498%
10	10.103	1368	1375	1391	rBV	1130249	1960180	100.00%	9.459%
11	10.298	1400	1407	1413	rVB	15468	26445	1.35%	0.128%
12	10.493	1433	1439	1454	rVB	903569	1370031	69.89%	6.611%
13	10.902	1501	1506	1513	rVV3	13251	31871	1.63%	0.154%
14	11.213	1548	1557	1567	rVV4	54329	127600	6.51%	0.616%
15	11.310	1567	1573	1582	rVB	37655	61350	3.13%	0.296%
16	11.414	1582	1590	1600	rBV	1166850	1885636	96.20%	9.099%
17	11.517	1600	1607	1610	rVV	27822	51469	2.63%	0.248%
18	11.548	1610	1612	1616	rVV3	17876	24899	1.27%	0.120%
19	11.639	1616	1627	1635	rVV4	241464	531579	27.12%	2.565%
20	11.706	1635	1638	1643	rVB2	24193	36664	1.87%	0.177%
21	11.859	1658	1663	1668	rVB3	23861	37529	1.91%	0.181%
22	11.938	1668	1676	1682	rBV5	81199	249397	12.72%	1.203%
23	12.048	1690	1694	1698	rVB	61389	81818	4.17%	0.395%
24	12.127	1698	1707	1710	rBV3	35746	82233	4.20%	0.397%
25	12.170	1710	1714	1723	rVV5	74351	163498	8.34%	0.789%
26	12.249	1723	1727	1730	rVV	18652	29082	1.48%	0.140%
27	12.316	1730	1738	1739	rVV4	53131	119944	6.12%	0.579%
28	12.341	1739	1742	1744	rVV	98633	144002	7.35%	0.695%
29	12.365	1744	1746	1748	rVV	109111	129438	6.60%	0.625%
30	12.408	1748	1753	1758	rVV	956907	1544693	78.80%	7.454%
31	12.450	1758	1760	1765	rVV2	106338	128594	6.56%	0.621%
32	12.572	1776	1780	1786	rVB3	35628	67783	3.46%	0.327%
33	12.651	1786	1793	1796	rBV3	34416	64643	3.30%	0.312%
34	12.731	1796	1806	1811	rBV2	535699	820916	41.88%	3.961%
35	12.786	1811	1815	1820	rVB	59015	88455	4.51%	0.427%
36	12.840	1820	1824	1826	rBV3	20505	31455	1.60%	0.152%

Sample Results: **VY021338.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

37	12.877	1826	1830	1833	rVB2	32397	40758	2.08%	0.197%
38	12.926	1833	1838	1841	rBV3	44493	79415	4.05%	0.383%
39	12.962	1841	1844	1851	rVB2	100486	160072	8.17%	0.772%
40	13.029	1851	1855	1861	rVB5	23800	43991	2.24%	0.212%
41	13.090	1861	1865	1871	rBV3	37367	68844	3.51%	0.332%
42	13.243	1882	1890	1894	rBV2	102752	229253	11.70%	1.106%
43	13.285	1894	1897	1900	rVV2	101048	140610	7.17%	0.679%
44	13.346	1900	1907	1914	rVV	1111104	1795851	91.62%	8.666%
45	13.426	1916	1920	1927	rBV2	89215	148824	7.59%	0.718%
46	13.627	1946	1953	1954	rBV3	14126	25940	1.32%	0.125%
47	13.676	1955	1961	1965	rVV	600688	847836	43.25%	4.091%
48	13.712	1965	1967	1972	rVB	41933	54607	2.79%	0.264%
49	13.773	1972	1977	1983	rBV5	41336	82400	4.20%	0.398%
50	13.840	1983	1988	1992	rBV4	42499	97223	4.96%	0.469%
51	13.889	1992	1996	2001	rVB3	81209	128140	6.54%	0.618%
52	13.938	2001	2004	2009	rVB2	44474	65704	3.35%	0.317%
53	13.999	2009	2014	2018	rBV4	24341	40530	2.07%	0.196%
54	14.066	2018	2025	2029	rBV4	38437	76141	3.88%	0.367%
55	14.121	2029	2034	2037	rBV3	42680	63666	3.25%	0.307%
56	14.169	2037	2042	2044	rBV3	121401	219488	11.20%	1.059%
57	14.237	2050	2053	2060	rVB	89738	116252	5.93%	0.561%
58	14.304	2060	2064	2067	rVV2	79906	106327	5.42%	0.513%
59	14.340	2067	2070	2074	rVB3	60435	78329	4.00%	0.378%
60	14.395	2074	2079	2086	rVB6	44831	89371	4.56%	0.431%
61	14.468	2086	2091	2094	rBV5	14456	26373	1.35%	0.127%
62	14.529	2096	2101	2108	rVV	468446	654060	33.37%	3.156%
63	14.602	2108	2113	2117	rVV2	68140	123592	6.31%	0.596%
64	14.651	2117	2121	2128	rVV	147054	249935	12.75%	1.206%
65	14.724	2128	2133	2137	rVV6	43780	92898	4.74%	0.448%
66	14.767	2137	2140	2148	rVV7	58553	153142	7.81%	0.739%
67	14.858	2152	2155	2159	rVB3	31299	46239	2.36%	0.223%
68	14.950	2166	2170	2176	rBV4	43981	89399	4.56%	0.431%
69	15.011	2176	2180	2183	rVV2	45439	72755	3.71%	0.351%
70	15.053	2183	2187	2193	rVB4	99682	171950	8.77%	0.830%
71	15.121	2193	2198	2203	rBV	114243	178295	9.10%	0.860%
72	15.175	2204	2207	2215	rVB6	26634	63777	3.25%	0.308%
73	15.249	2215	2219	2224	rBV7	12964	28786	1.47%	0.139%
74	15.346	2230	2235	2241	rVB	272562	379261	19.35%	1.830%
75	15.450	2250	2252	2256	rVB3	24606	30581	1.56%	0.148%
76	15.925	2324	2330	2334	rVV5	21463	51332	2.62%	0.248%

Sample Results: **VY021338.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

77	15.986	2336	2340	2346	rVB6	15181	29929	1.53%	0.144%
78	16.047	2346	2350	2356	rVB5	13108	24149	1.23%	0.117%
79	16.248	2375	2383	2390	rBV	32025	64285	3.28%	0.310%

Sum of corrected areas: 20723364

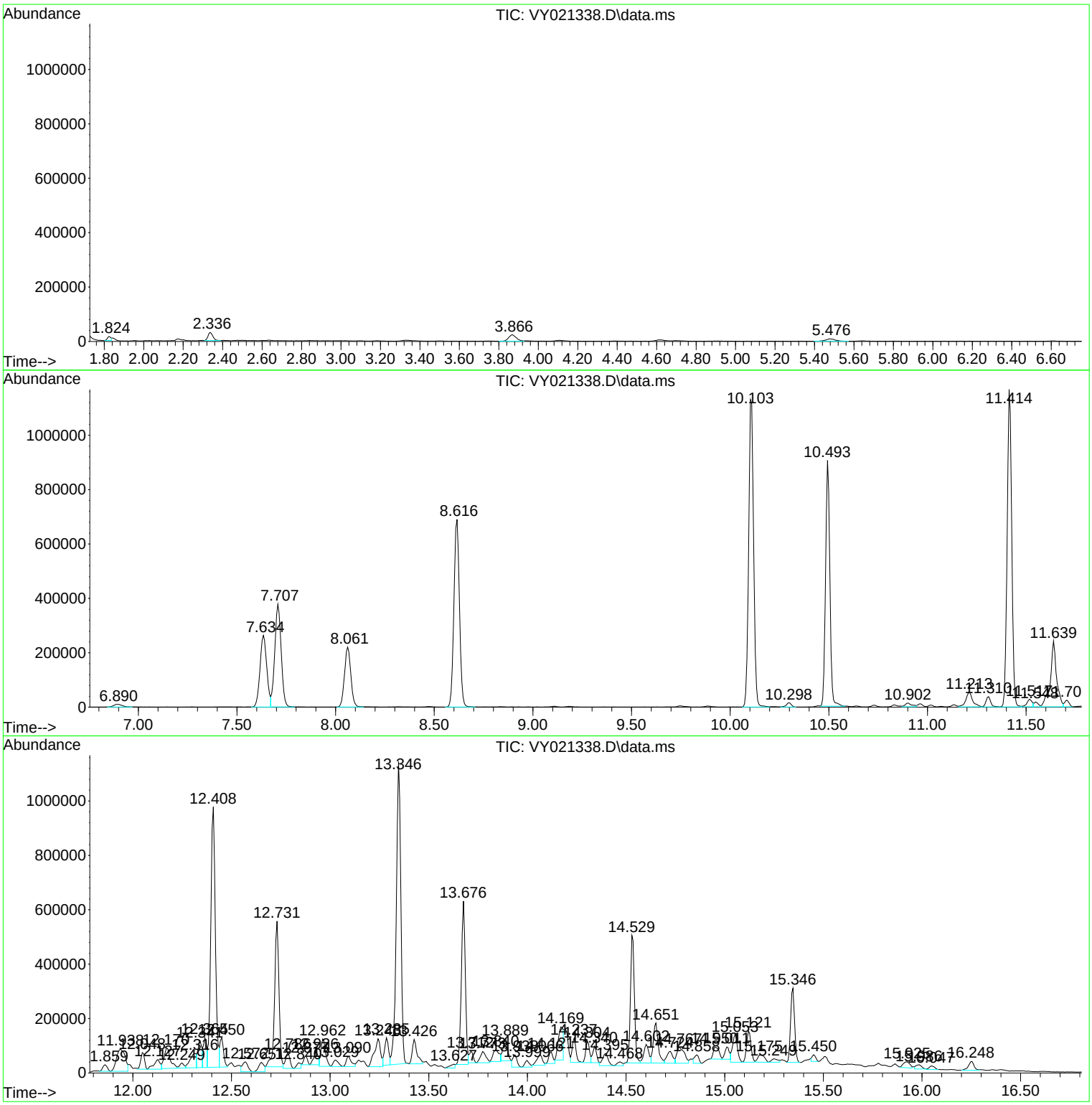
Sample Results: **VY021338.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

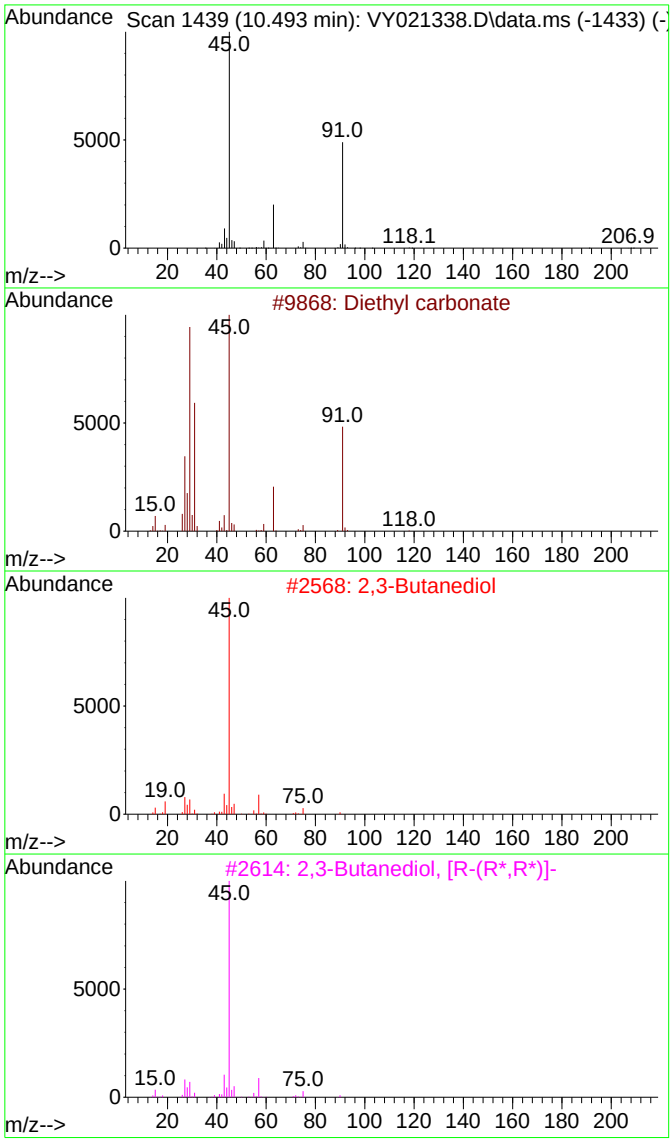
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

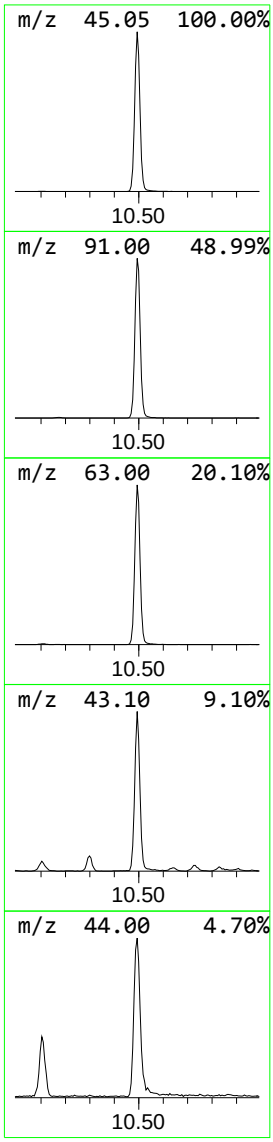
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Diethyl carbonate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.493	36.33 ug/l	1370030	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyl carbonate	118	C5H10O3	000105-58-8	86
2	2,3-Butanediol	90	C4H10O2	000513-85-9	50
3	2,3-Butanediol, [R-(R*,R*)]-	90	C4H10O2	024347-58-8	50
4	Dimethyl-cyano-phosphine	87	C3H6NP	031641-57-3	9
5	Isopropyl Alcohol	60	C3H8O	000067-63-0	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

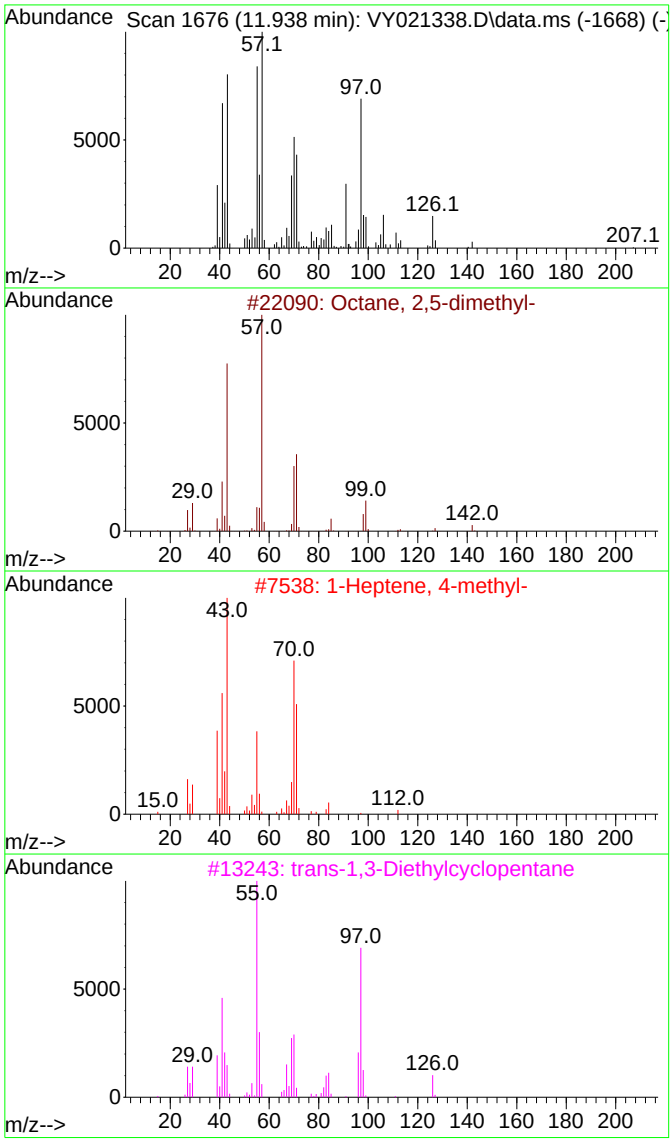
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

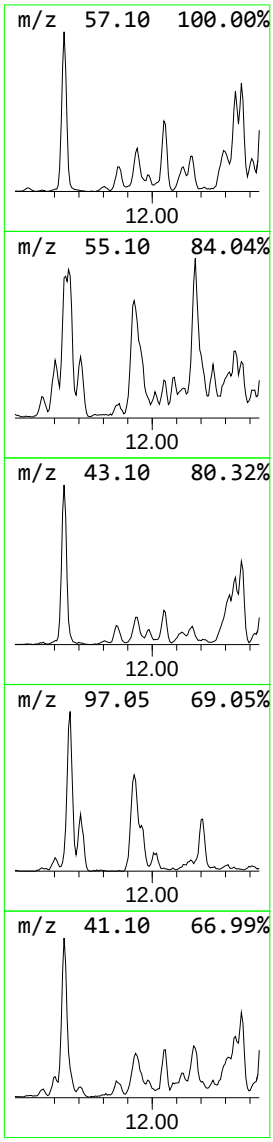
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 unknown11.938 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.938	6.61 ug/l	249397	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,5-dimethyl-	142	C10H22	015869-89-3	46
2	1-Heptene, 4-methyl-	112	C8H16	013151-05-8	42
3	trans-1,3-Diethylcyclopentane	126	C9H18	1000113-87-1	38
4	3-Nonene	126	C9H18	020063-77-8	35
5	1-Hexene, 4-ethyl-	112	C8H16	016746-85-3	25





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

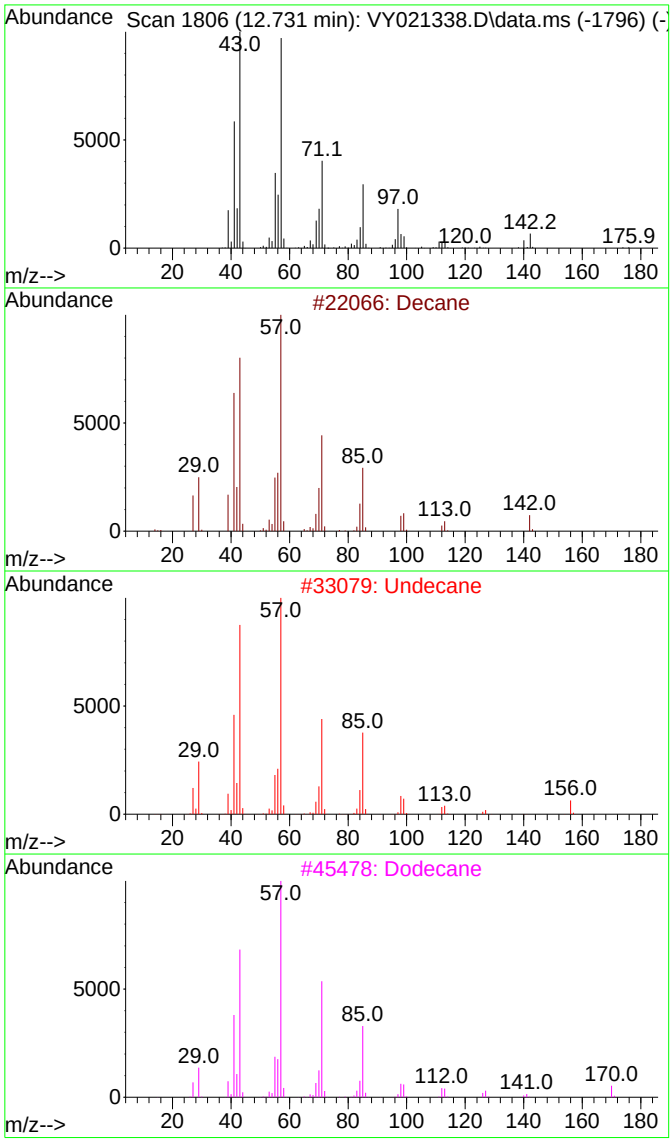
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

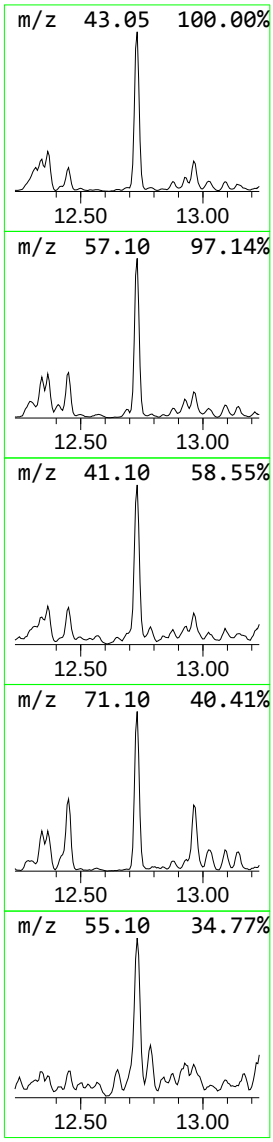
****

Peak Number 3 Decane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.731	22.86 ug/l	820916	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	93
2	Undecane	156	C11H24	001120-21-4	72
3	Dodecane	170	C12H26	000112-40-3	59
4	Decane, 2,9-dimethyl-	170	C12H26	001002-17-1	59
5	Octane	114	C8H18	000111-65-9	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

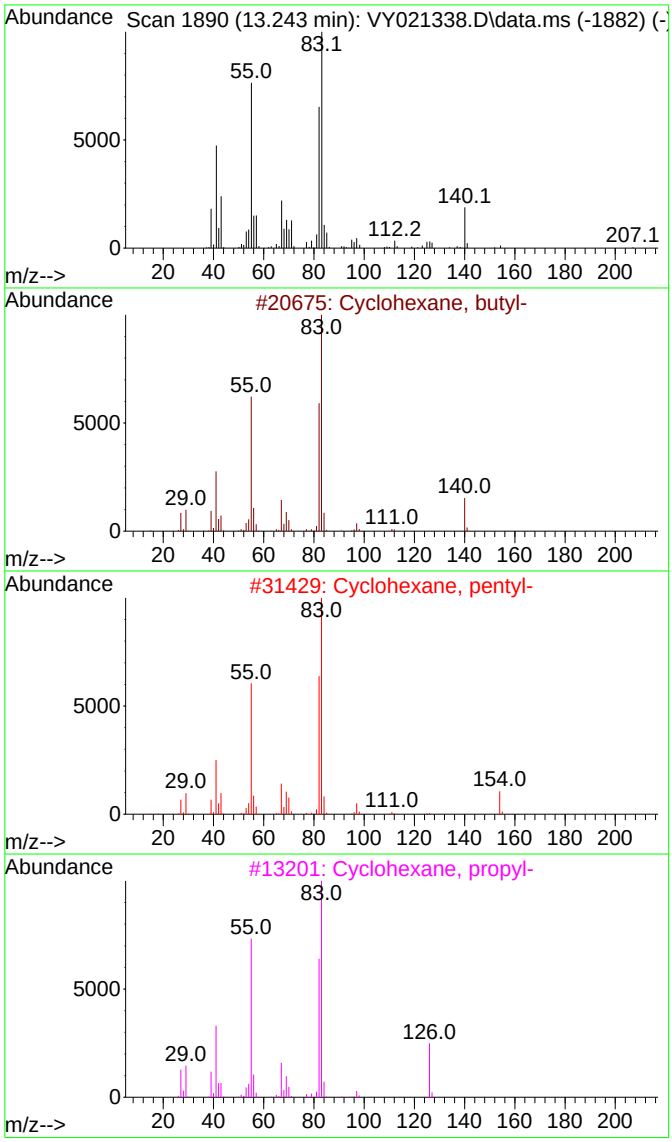
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

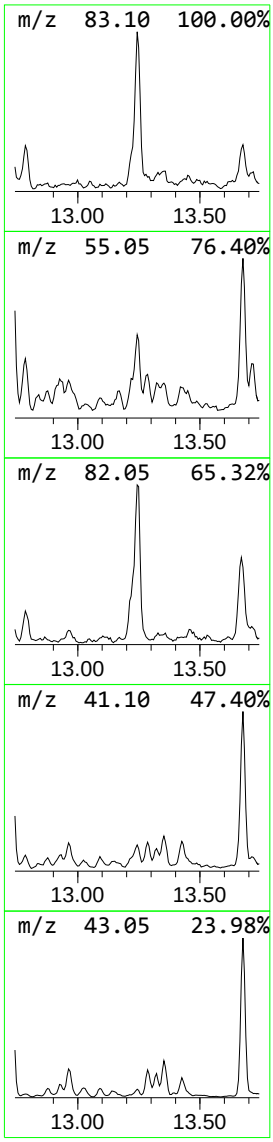
****

Peak Number 4 Cyclohexane, butyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.243	6.38 ug/l	229253	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	93
2	Cyclohexane, pentyl-	154	C11H22	004292-92-6	87
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	87
4	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	72
5	Cyclohexane, octyl-	196	C14H28	001795-15-9	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

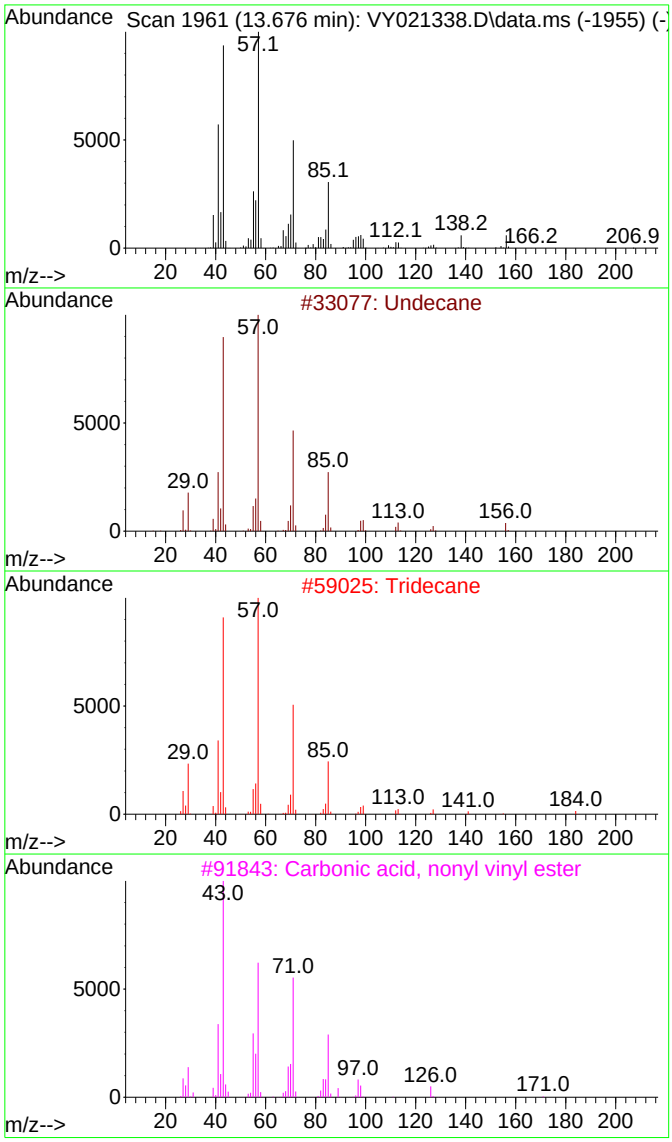
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

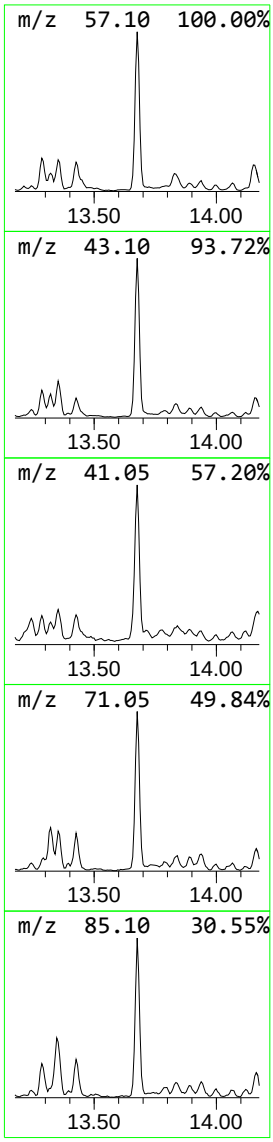
****

Peak Number 5 Undecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	23.61 ug/l	847836	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	80
2	Tridecane	184	C13H28	000629-50-5	59
3	Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	53
4	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	53
5	Nonane	128	C9H20	000111-84-2	52





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

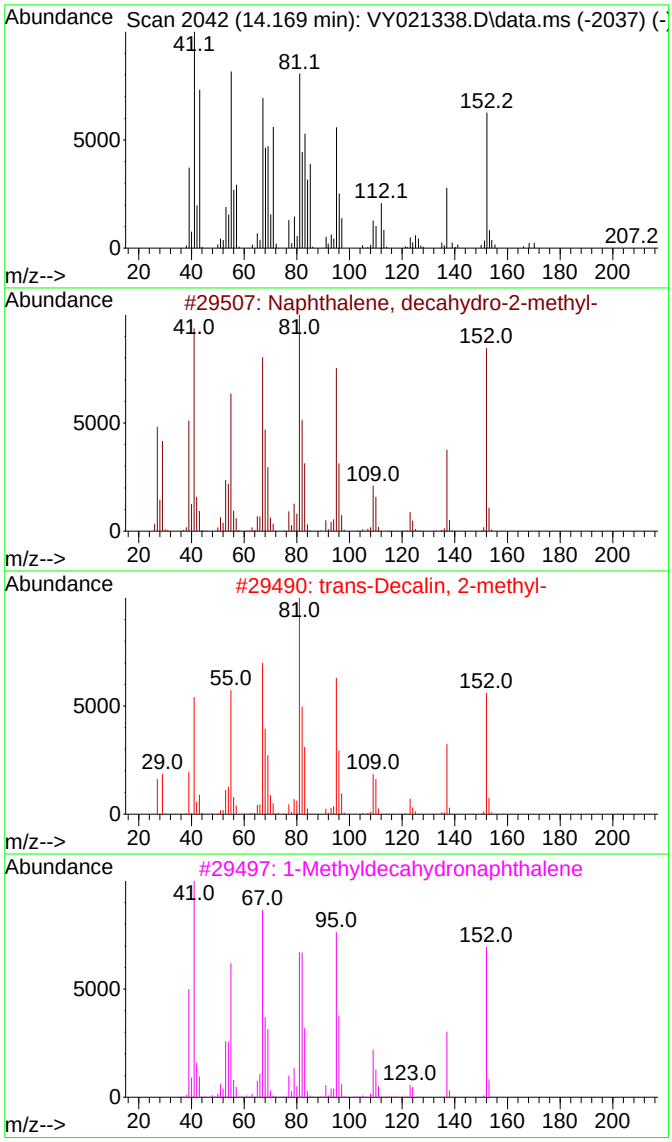
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

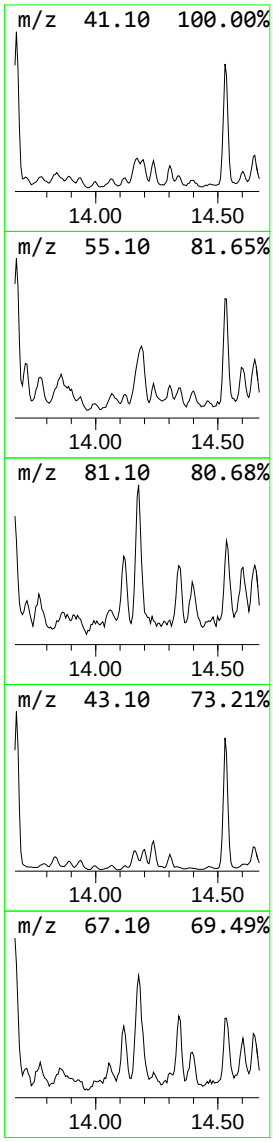
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Naphthalene, decahydro-2-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.169	6.11 ug/l	219488	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	97
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	93
3	1-Methyldecahydronaphthalene	152	C11H20	002958-75-0	60
4	Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	55
5	Spiro[5.5]undecane	152	C11H20	000180-43-8	42





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

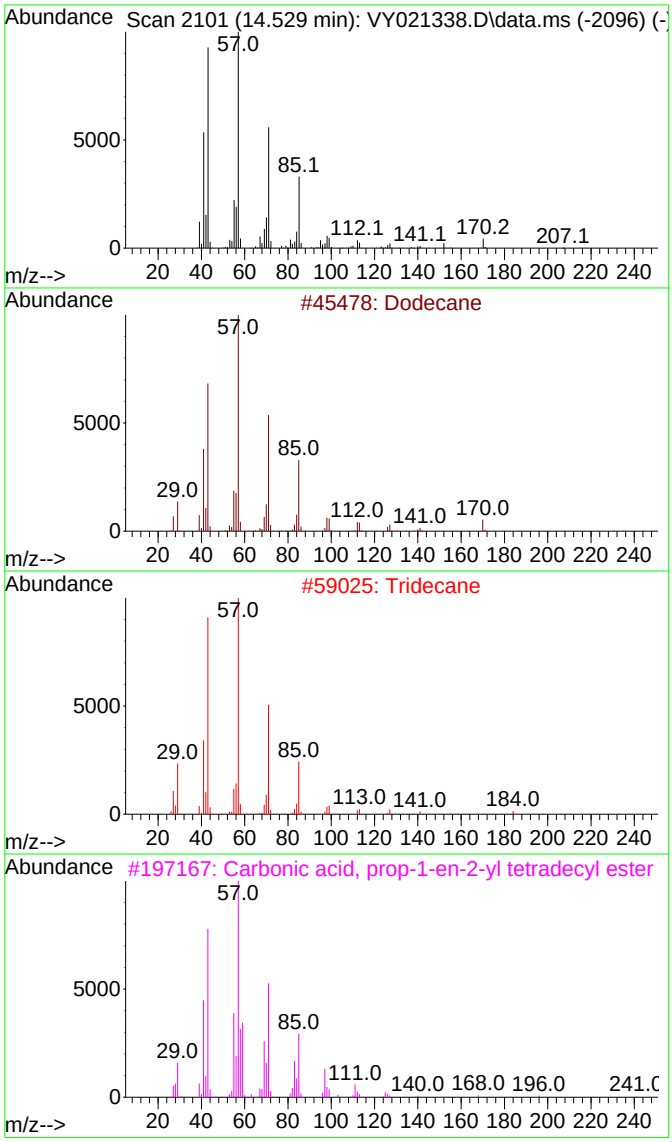
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

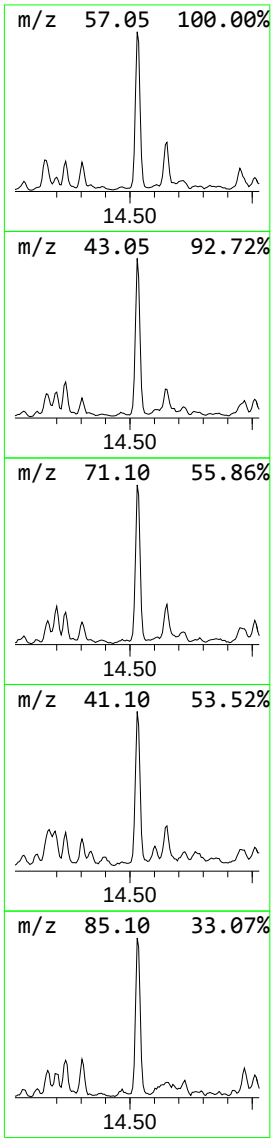
****

Peak Number 7 Dodecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	18.21 ug/l	654060	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	91
2	Tridecane	184	C13H28	000629-50-5	86
3	Carbonic acid, prop-1-en-2-yl te...	298	C18H34O3	1000382-90-9	86
4	Tetradecane	198	C14H30	000629-59-4	78
5	Hexadecane	226	C16H34	000544-76-3	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

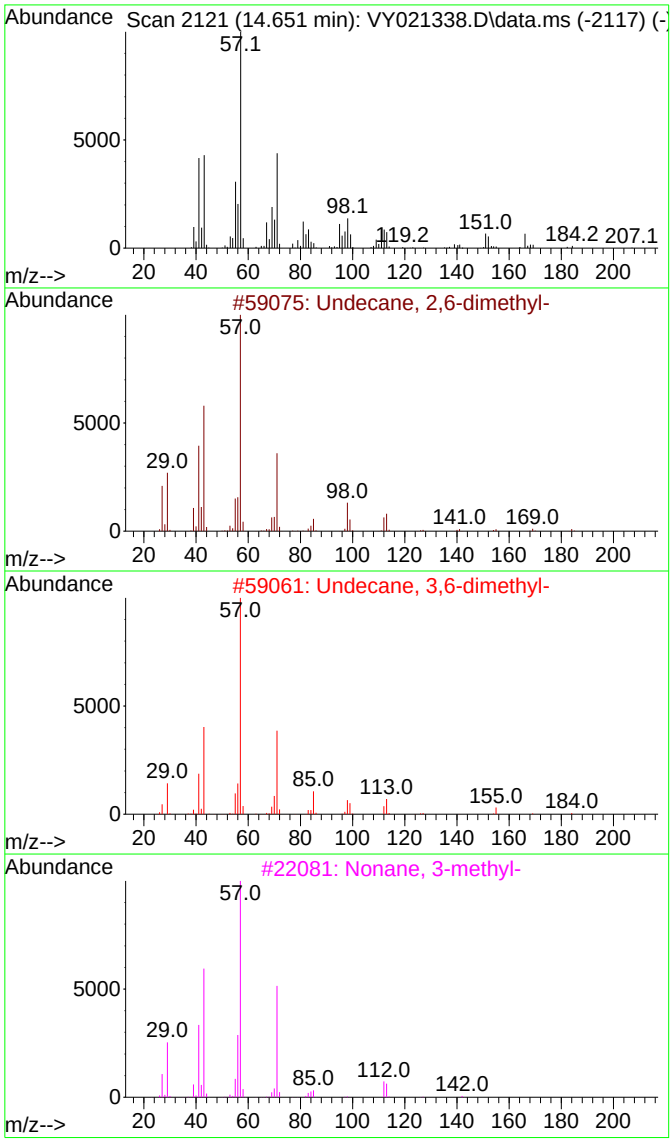
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

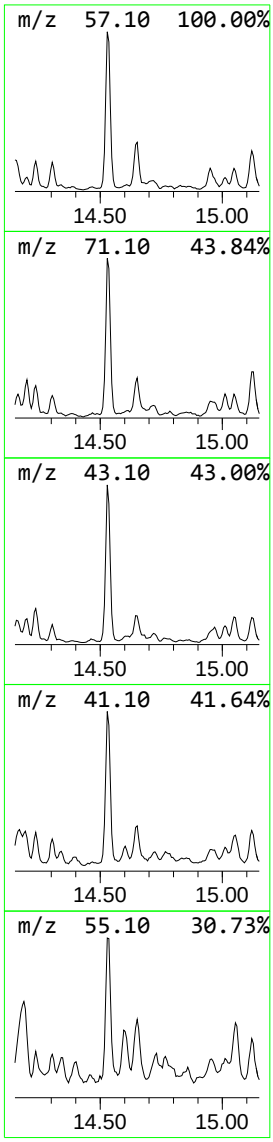
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Undecane, 2,6-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.651	6.96 ug/l	249935	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	70
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	53
3	Nonane, 3-methyl-	142	C10H22	005911-04-6	53
4	Sulfurous acid, butyl dodecyl ester	306	C16H34O3S	1000309-17-9	53
5	Tridecane, 6-methyl-	198	C14H30	013287-21-3	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

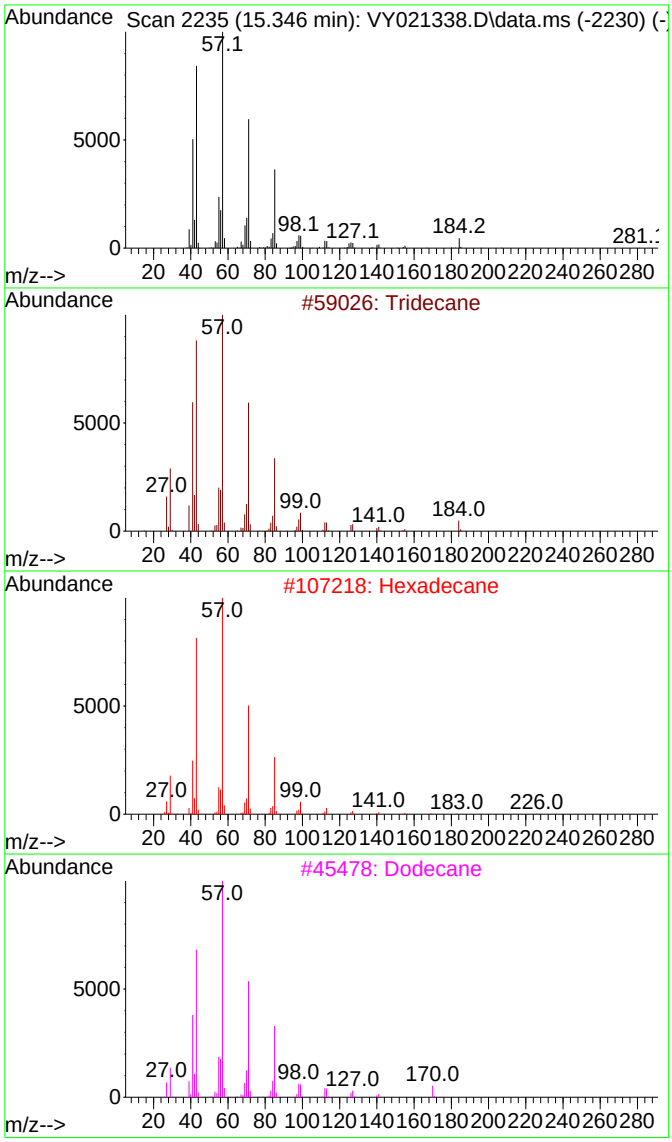
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

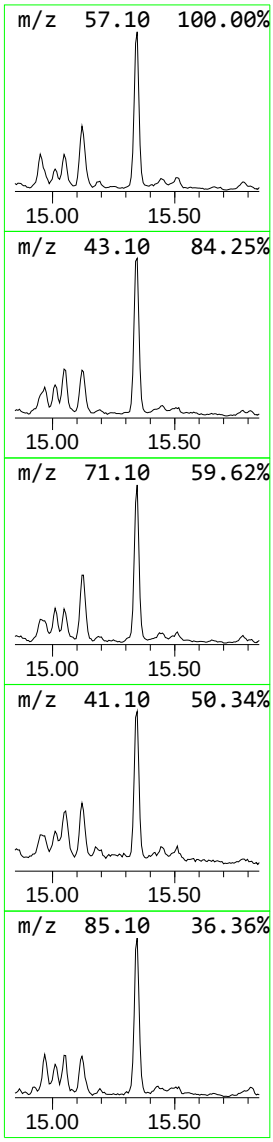
****

Peak Number 9 Tridecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	10.56 ug/l	379261	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	94
2	Hexadecane	226	C16H34	000544-76-3	86
3	Dodecane	170	C12H26	000112-40-3	80
4	Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	78
5	Undecane	156	C11H24	001120-21-4	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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
Diethyl carbonate	10.493	36.3	ug/l	1370030	3	11.414	1885640	50.0
unknown11.938	11.938	6.6	ug/l	249397	3	11.414	1885640	50.0
Decane	12.731	22.9	ug/l	820916	4	13.346	1795850	50.0
Cyclohexane, bu...	13.243	6.4	ug/l	229253	4	13.346	1795850	50.0
Undecane	13.676	23.6	ug/l	847836	4	13.346	1795850	50.0
Naphthalene, de...	14.169	6.1	ug/l	219488	4	13.346	1795850	50.0
Dodecane	14.529	18.2	ug/l	654060	4	13.346	1795850	50.0
Undecane, 2,6-d...	14.651	7.0	ug/l	249935	4	13.346	1795850	50.0
Tridecane	15.346	10.6	ug/l	379261	4	13.346	1795850	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021355.D
Acq On : 27 Feb 2025 14:01
Operator : SY/MD
Sample : Q1415-03RE
Misc : 4.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Quant Time: Feb 28 00:41:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

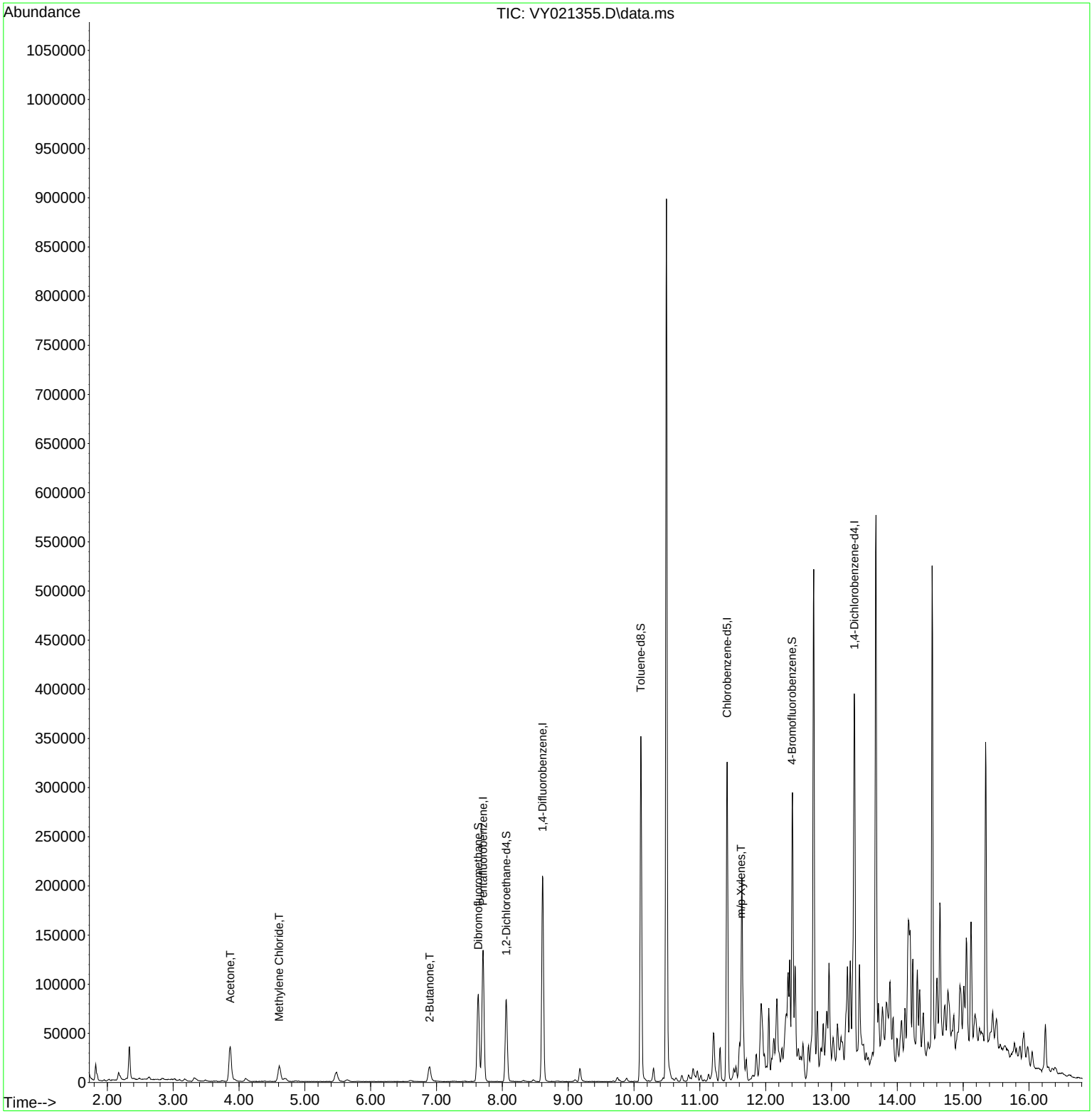
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	98490	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	174802	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	165444	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	72948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	66104	59.165	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.340%			
35) Dibromofluoromethane	7.634	113	61849	53.969	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.940%			
50) Toluene-d8	10.103	98	212983	48.088	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.180%			
62) 4-Bromofluorobenzene	12.402	95	75524	50.668	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.340%			
Target Compounds						Qvalue
16) Acetone	3.867	43	62962	293.774	ug/l	98
20) Methylene Chloride	4.610	84	10764	9.288	ug/l	98
25) 2-Butanone	6.896	43	24297	75.116	ug/l	99
68) m/p-Xylenes	11.627	106	4332	1.751	ug/l	83

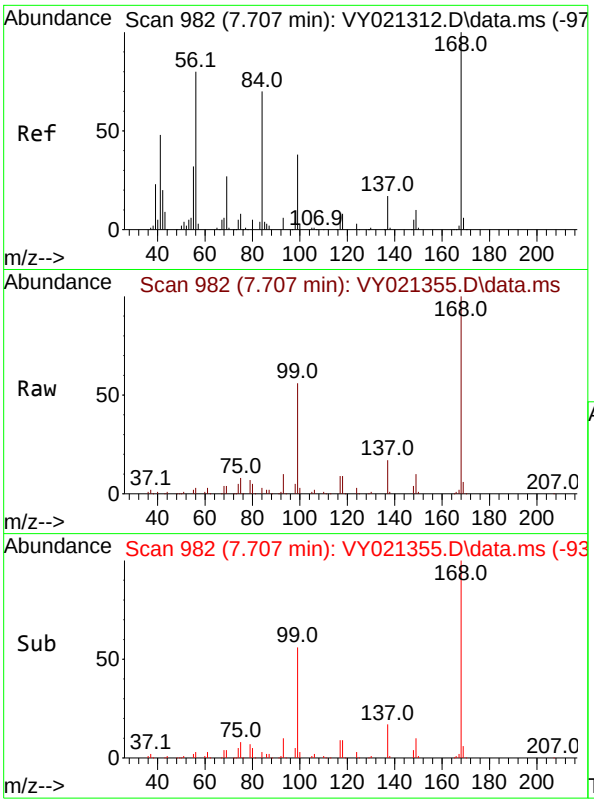
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021355.D
Acq On : 27 Feb 2025 14:01
Operator : SY/MD
Sample : Q1415-03RE
Misc : 4.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Quant Time: Feb 28 00:41:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



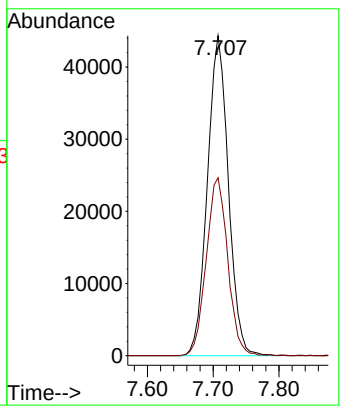


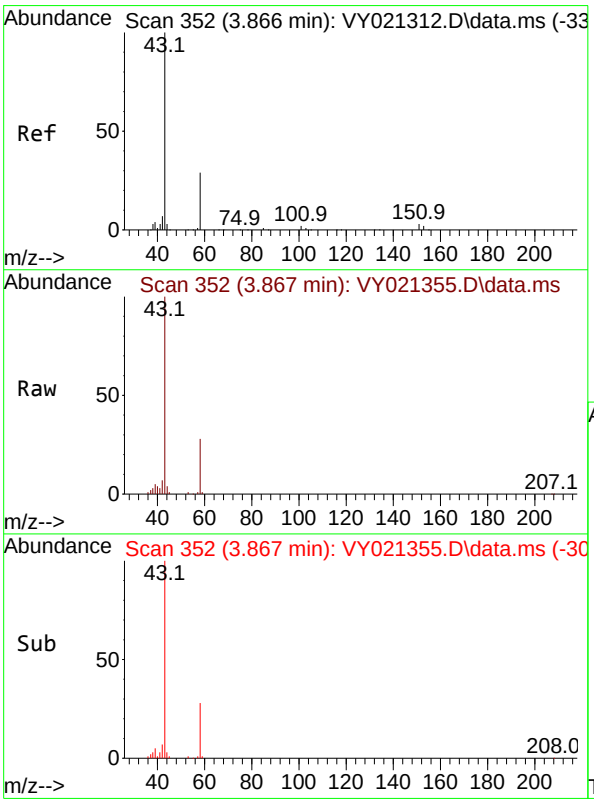
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Tgt Ion:168 Resp: 98490

Ion	Ratio	Lower	Upper
168	100		
99	55.6	47.1	70.7

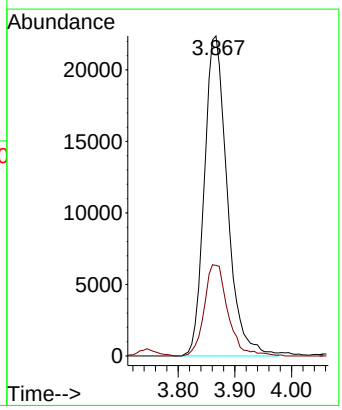


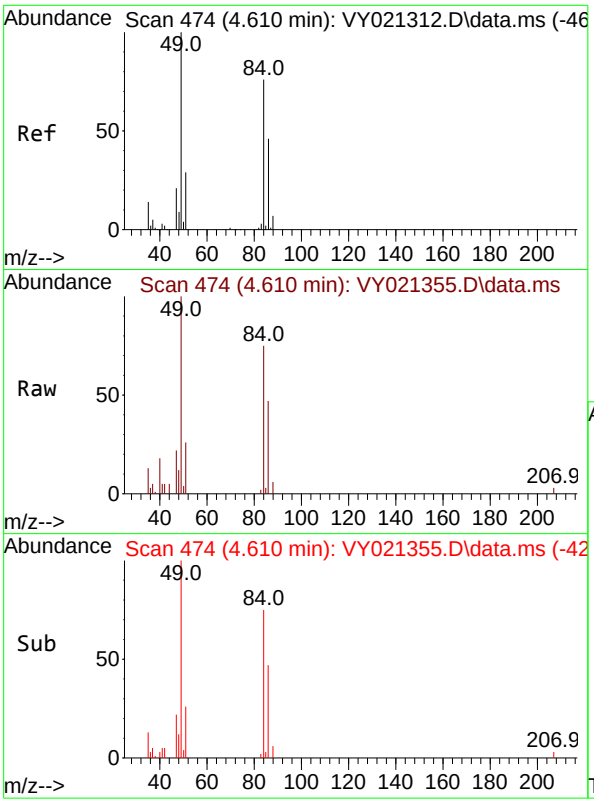


#16
Acetone
Concen: 293.774 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion: 43 Resp: 62962

Ion	Ratio	Lower	Upper
43	100		
58	28.3	23.5	35.3



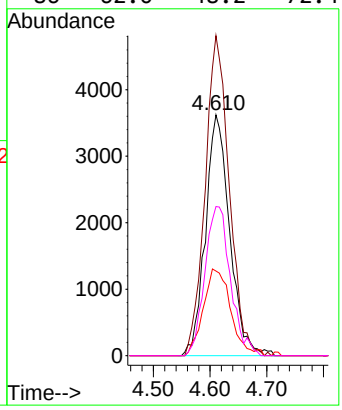


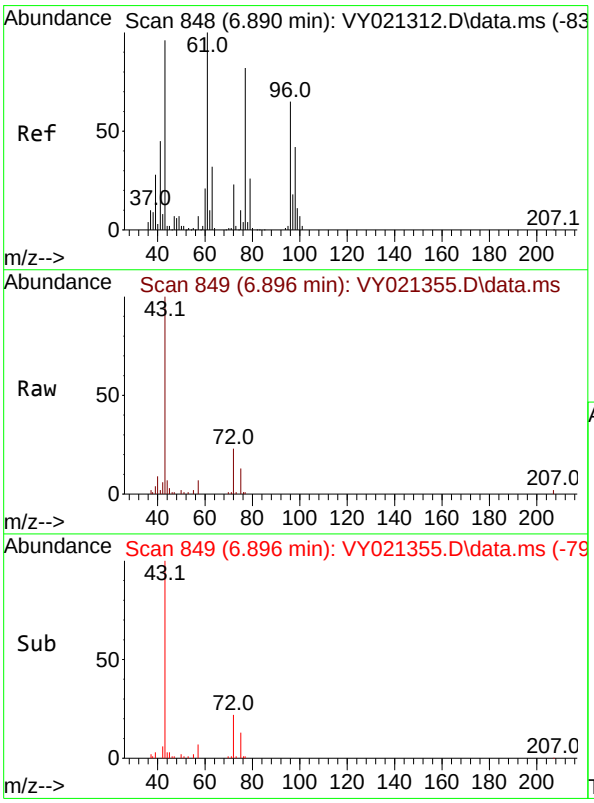
#20
Methylene Chloride
Concen: 9.288 ug/l
RT: 4.610 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Tgt Ion: 84 Resp: 10764

Ion	Ratio	Lower	Upper
84	100		
49	132.9	105.1	157.7
51	35.2	31.0	46.4
86	62.0	48.2	72.4

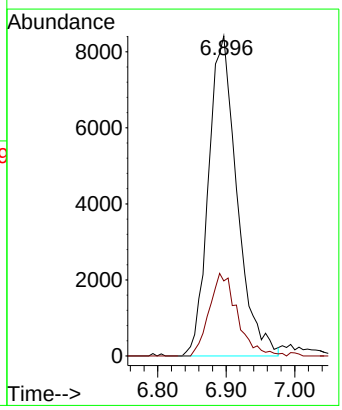


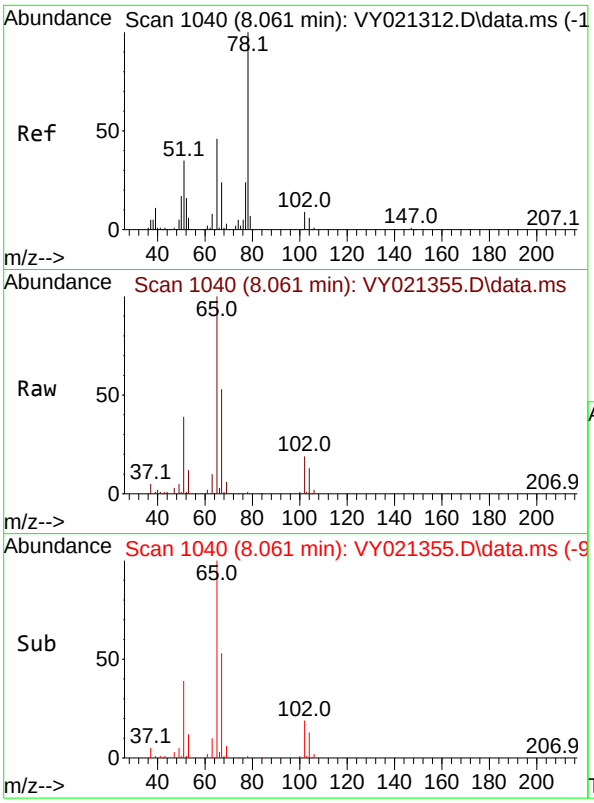


#25
2-Butanone
Concen: 75.116 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion: 43 Resp: 24297

Ion	Ratio	Lower	Upper
43	100		
72	23.5	19.0	28.6



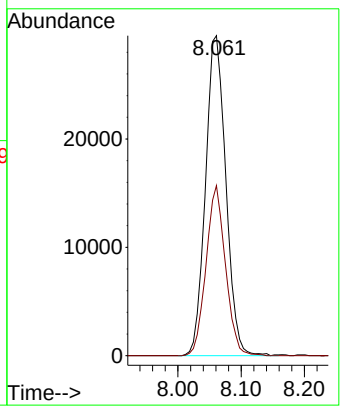


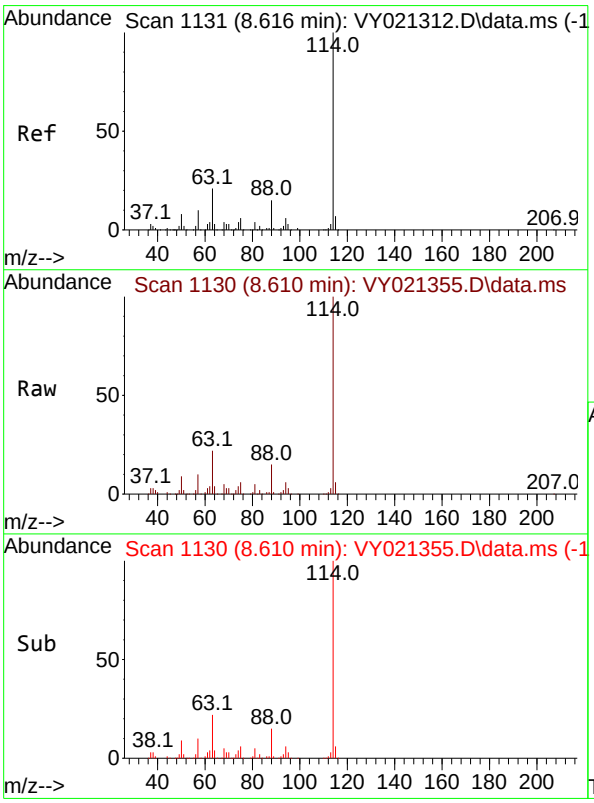
#33
1,2-Dichloroethane-d4
Concen: 59.165 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Tgt Ion: 65 Resp: 66104

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	103.6

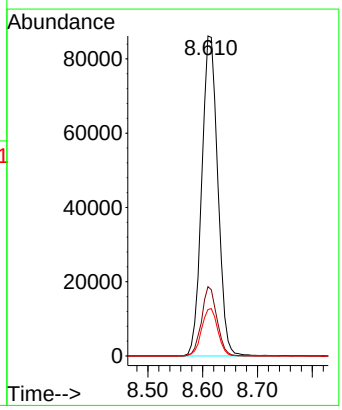


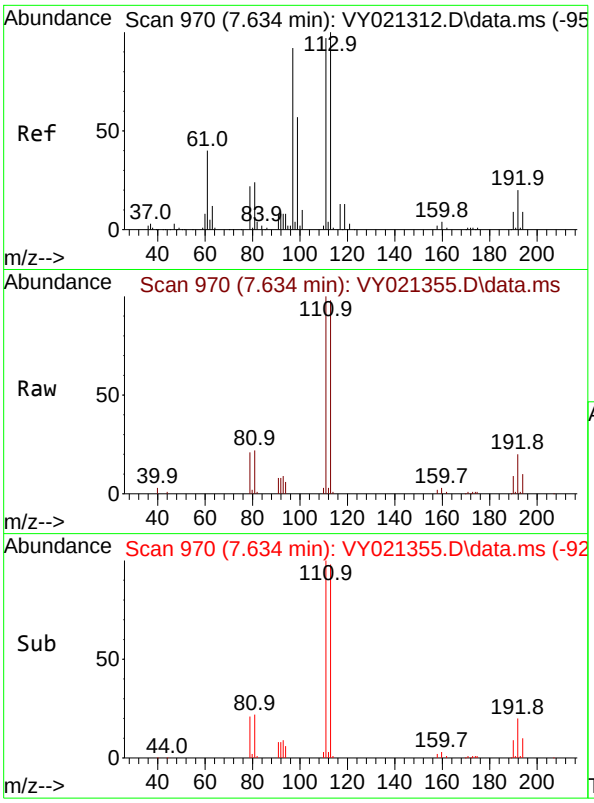


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion:114 Resp: 174802

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.2
88	14.5	0.0	29.8



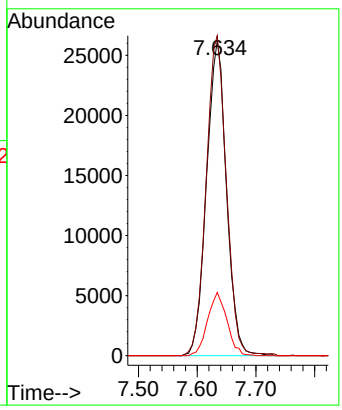


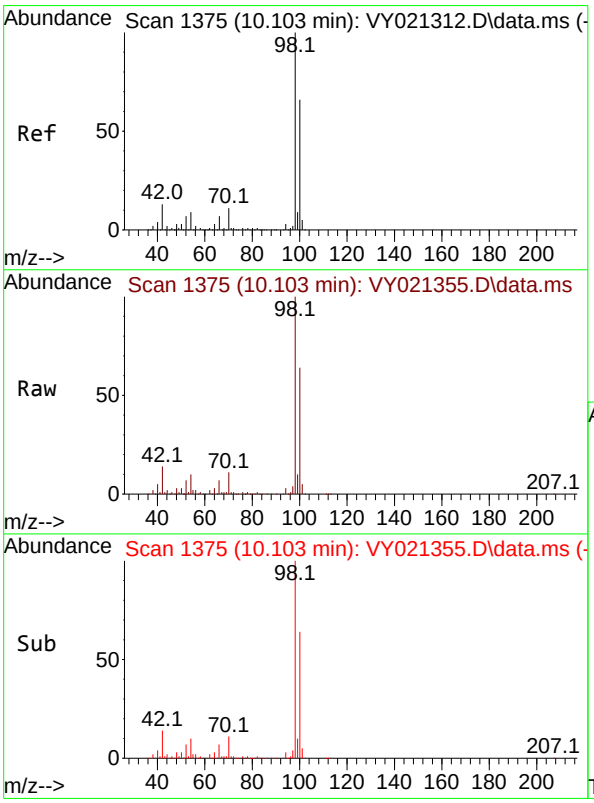
#35
Dibromofluoromethane
Concen: 53.969 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Tgt Ion:113 Resp: 61849

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.0	121.6
192	19.5	15.8	23.8

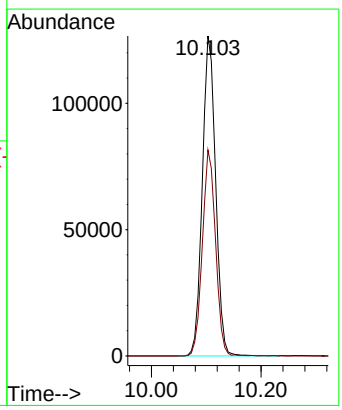


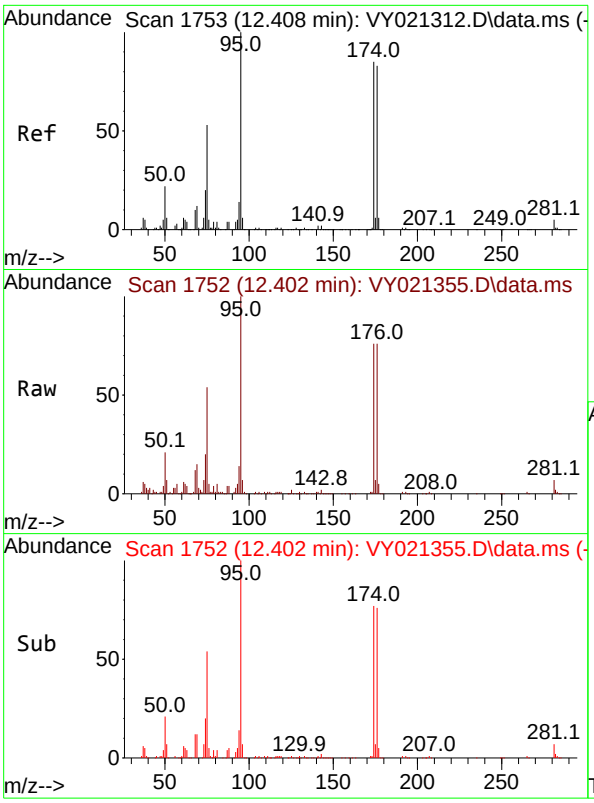


#50
Toluene-d8
Concen: 48.088 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion: 98 Resp: 212983

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.4	78.6



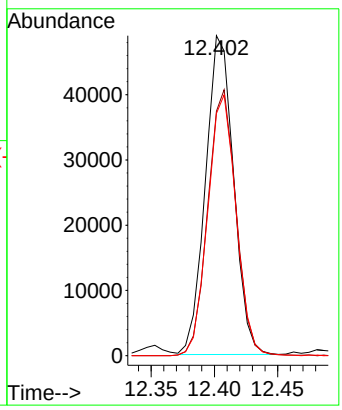


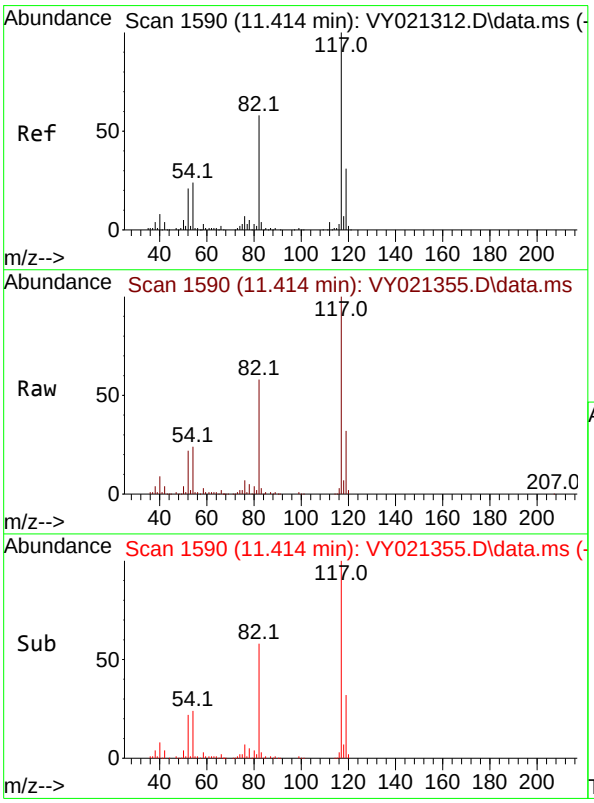
#62
4-Bromofluorobenzene
Concen: 50.668 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Tgt Ion: 95 Resp: 75524

Ion	Ratio	Lower	Upper
95	100		
174	83.8	0.0	168.0
176	82.3	0.0	162.6

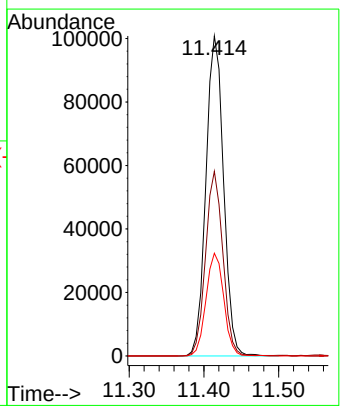


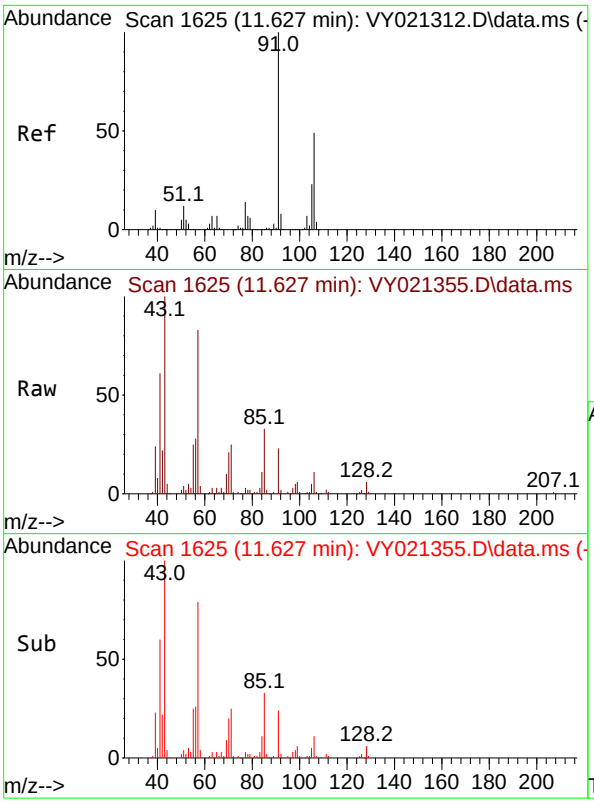


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion:117 Resp: 165444

Ion	Ratio	Lower	Upper
117	100		
82	57.7	46.2	69.4
119	32.1	24.9	37.3



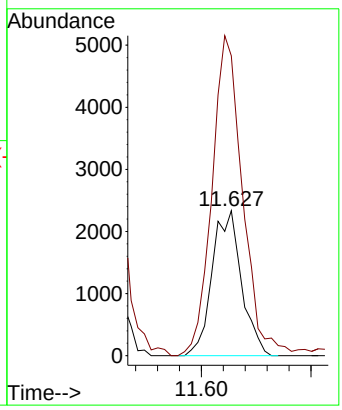


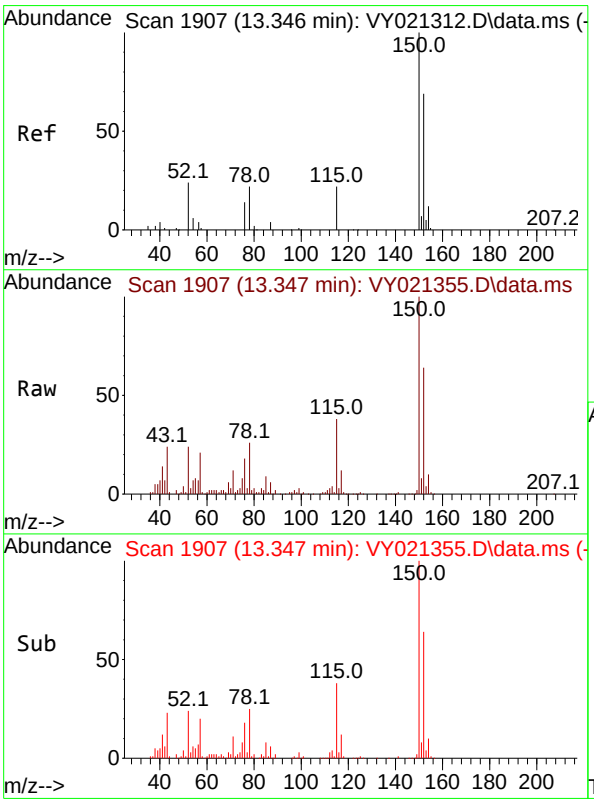
#68
m/p-Xylenes
Concen: 1.751 ug/l
RT: 11.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Tgt Ion:106 Resp: 4332

Ion	Ratio	Lower	Upper
106	100		
91	230.7	163.9	245.9

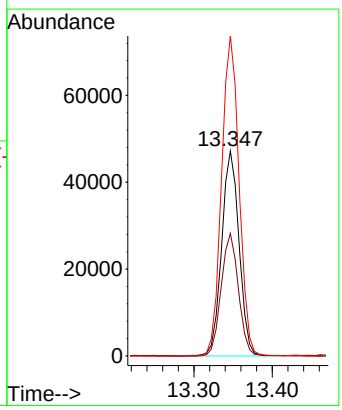




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion:152 Resp: 72948

Ion	Ratio	Lower	Upper
152	100		
115	59.3	29.3	88.0
150	156.9	0.0	347.4



Sample Results: **VY021337.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 27 00:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	273603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	518008	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	414734	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	117278	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	158234	50.981	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.960%			
35) Dibromofluoromethane	7.634	113	171658	50.546	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.100%			
50) Toluene-d8	10.103	98	600650	45.764	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 91.520%			
62) 4-Bromofluorobenzene	12.407	95	155529	35.210	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 70.420%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.842	59	23623m	98.950	ug/l	
16) Acetone	3.866	43	46757	78.533	ug/l	92
18) Methyl Acetate	4.385	43	4019	2.762	ug/l	97

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

Sample Results: **VY021337.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 27 00:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations APPROVED

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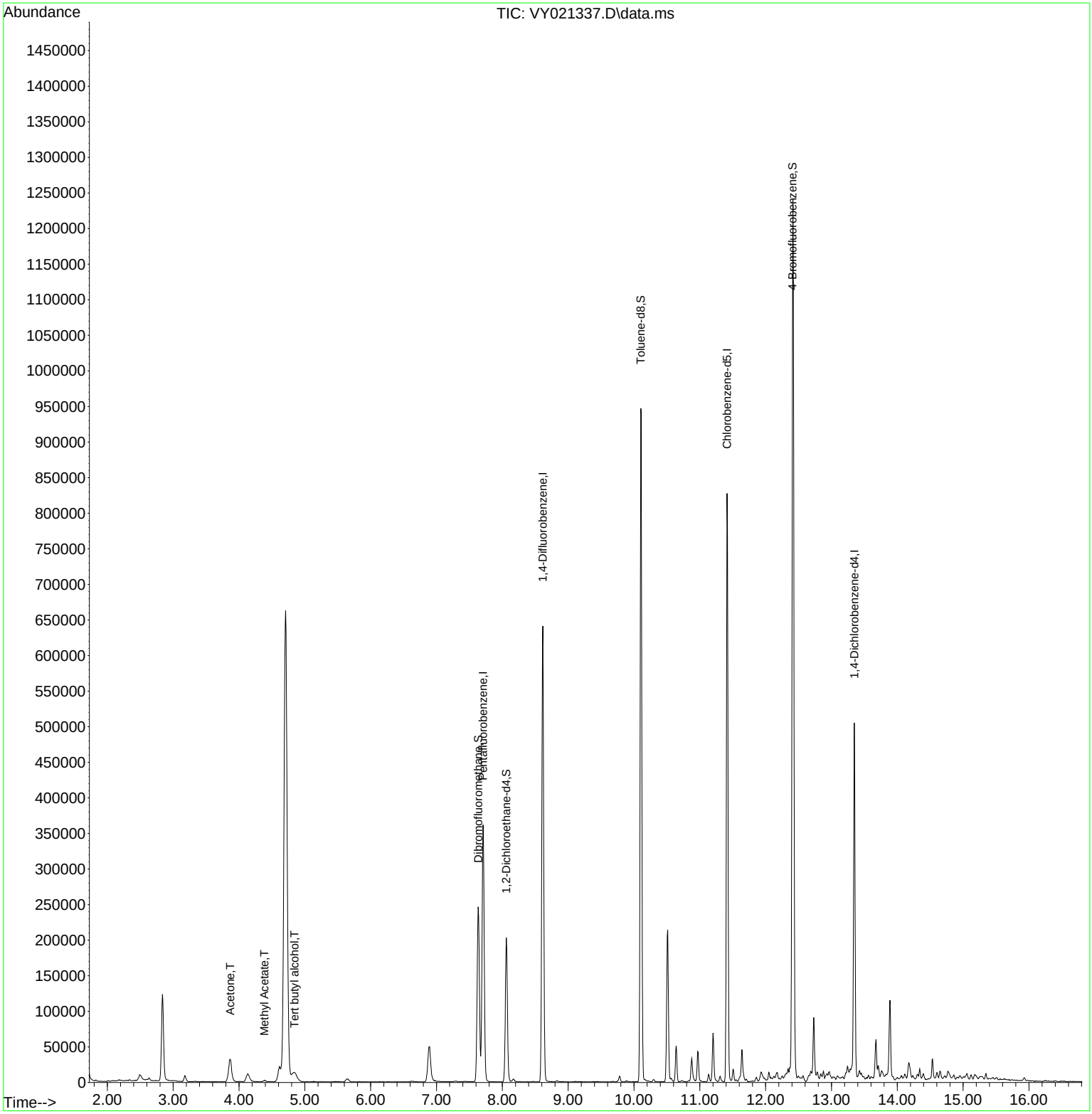
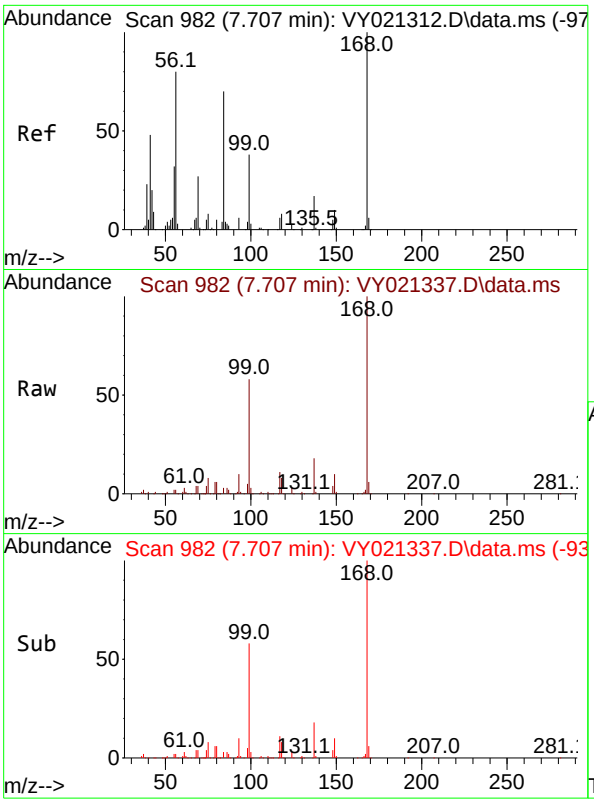
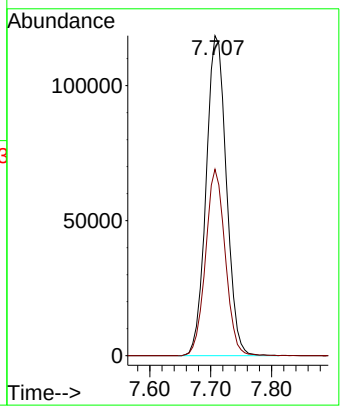




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion:168 Resp: 27360

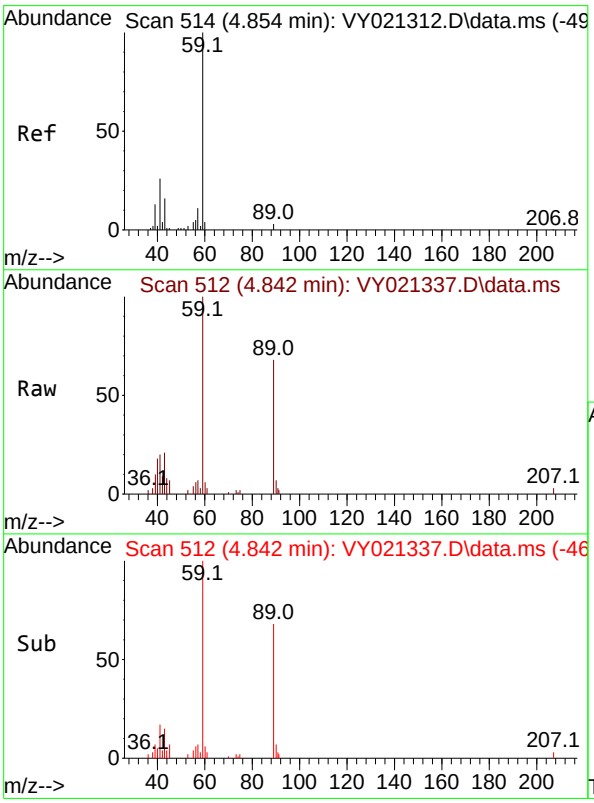
Ion	Ratio	Lower	Upper
168	100		
99	58.3	47.1	70.7



Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
APPROVED

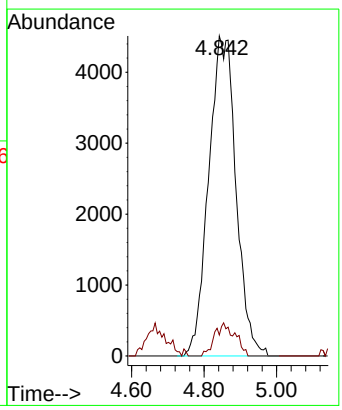
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

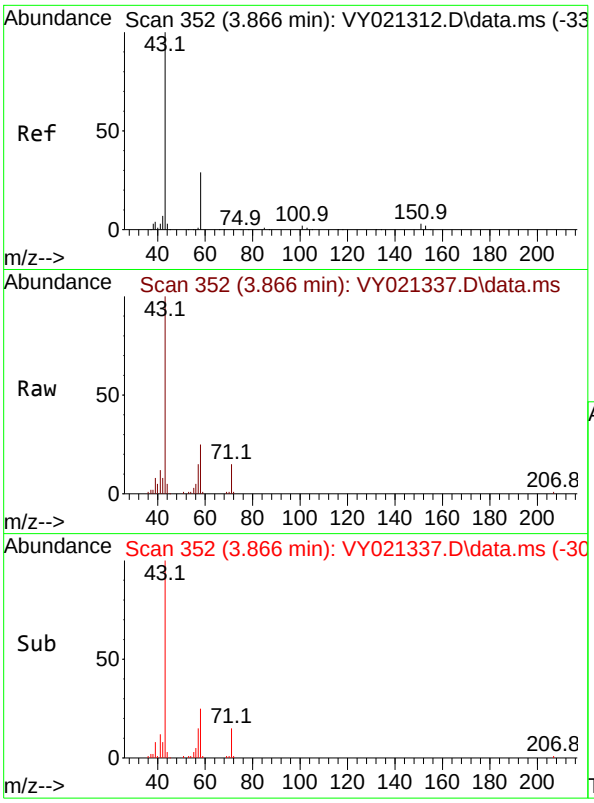


#11
Tert butyl alcohol
Concen: 98.950 ug/l m
RT: 4.842 min Scan# 512
Delta R.T. -0.012 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 59 Resp: 23623

Ion	Ratio	Lower	Upper
59	100		
57	5.9	8.3	12.5#

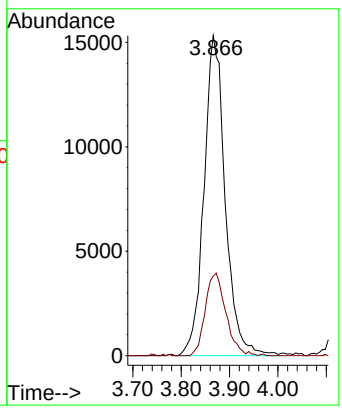




#16
Acetone
Concen: 78.533 ug/l
RT: 3.866 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 43 Resp: 4675

Ion	Ratio	Lower	Upper
43	100		
58	24.8	23.5	35.3



Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
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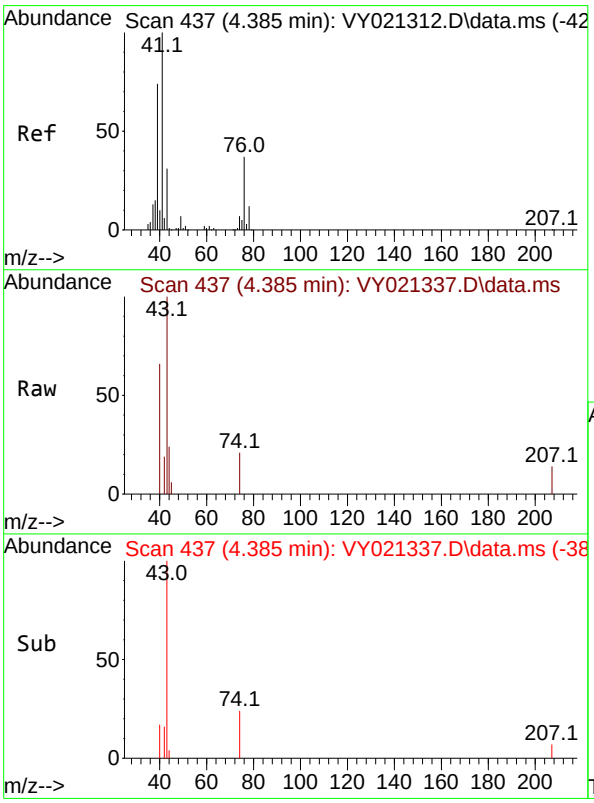
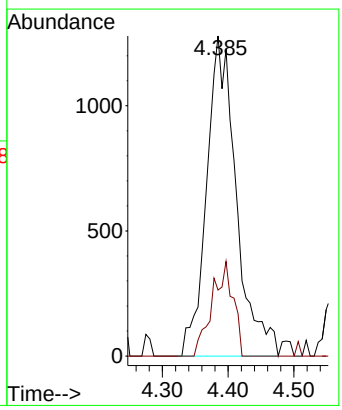
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

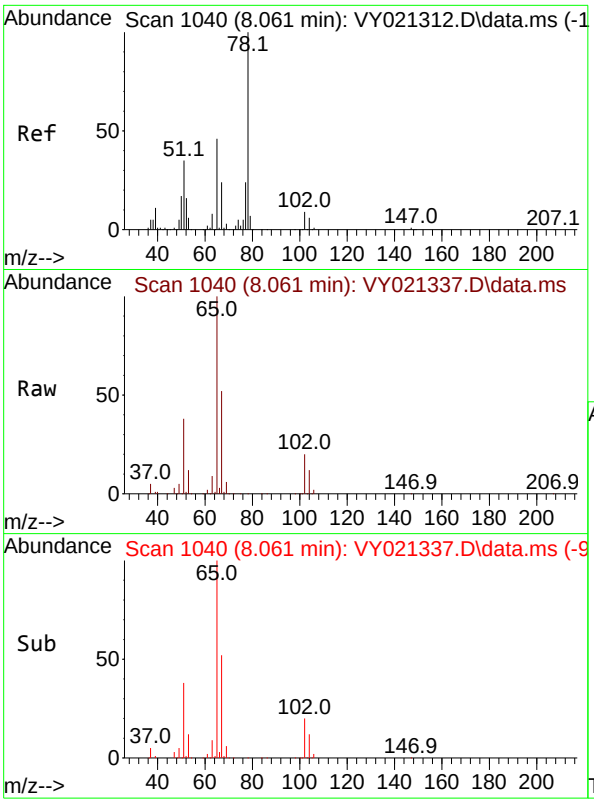


#18
Methyl Acetate
Concen: 2.762 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 43 Resp: 4019

Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.7	26.5

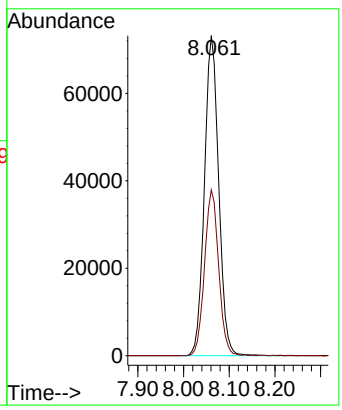




#33
1,2-Dichloroethane-d4
Concen: 50.981 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 65 Resp: 15823

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.6



Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
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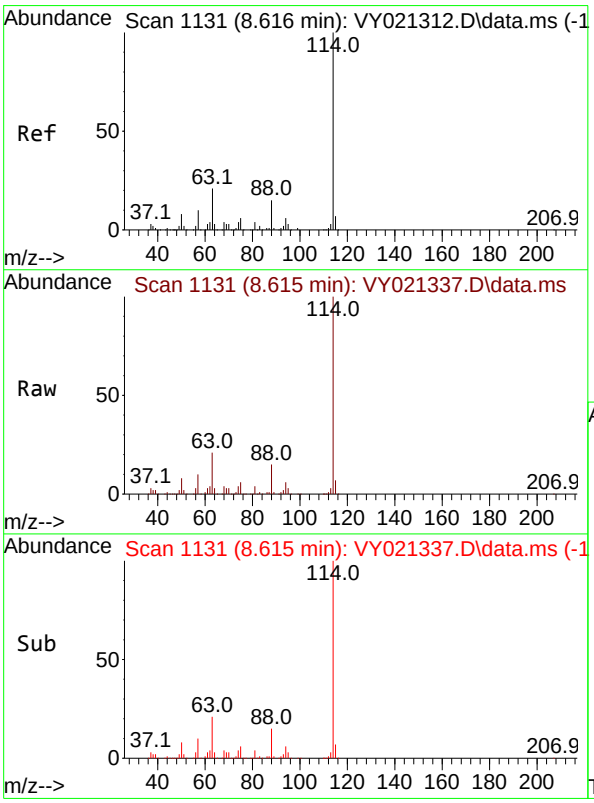
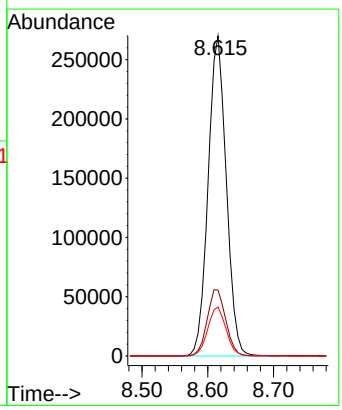
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

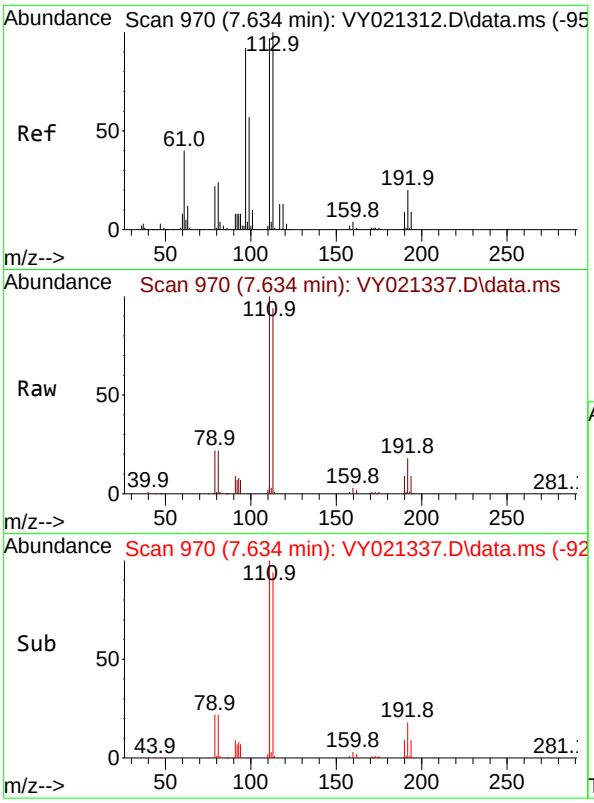


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion:114 Resp: 518008

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.2
88	15.3	0.0	29.8





#35
Dibromofluoromethane
Concen: 50.546 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion:113 Resp: 17165

Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.0	121.6
192	19.5	15.8	23.8

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
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Reviewed By :Romaben Patel 02/27/2025
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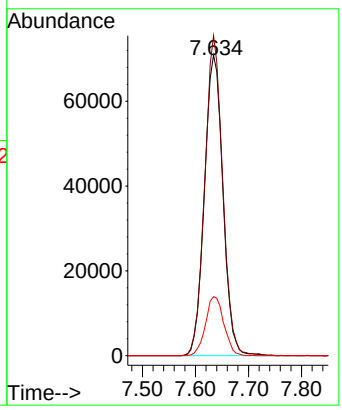
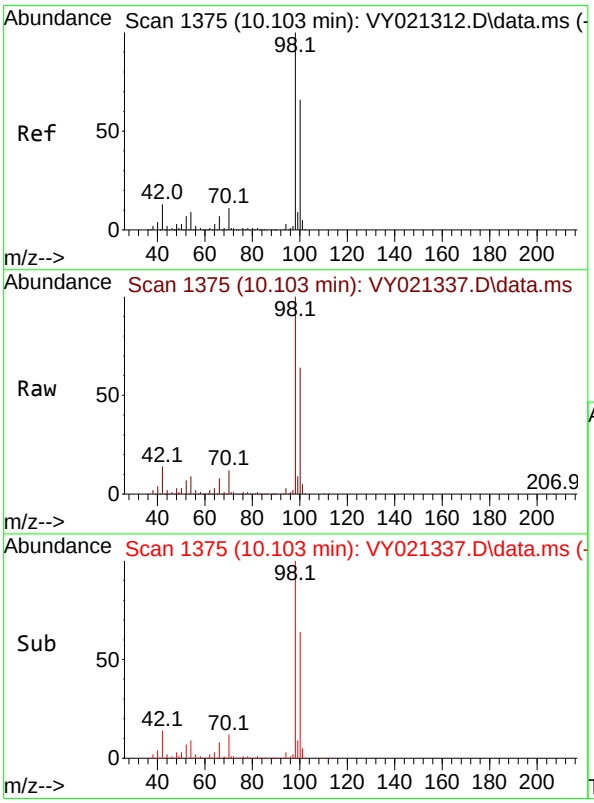
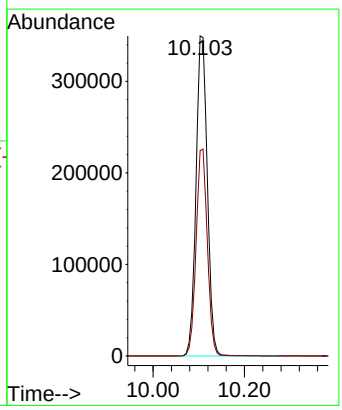


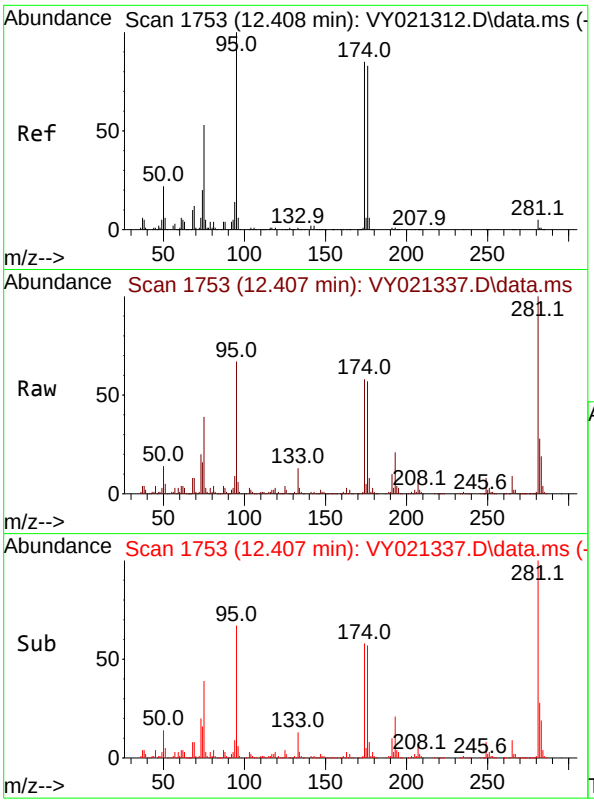


#50
Toluene-d8
Concen: 45.764 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 98 Resp: 600650

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.4	78.6

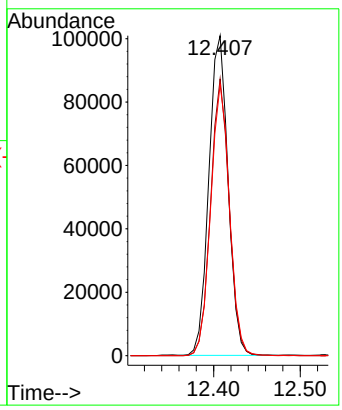




#62
4-Bromofluorobenzene
Concen: 35.210 ug/l
RT: 12.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 95 Resp: 15552

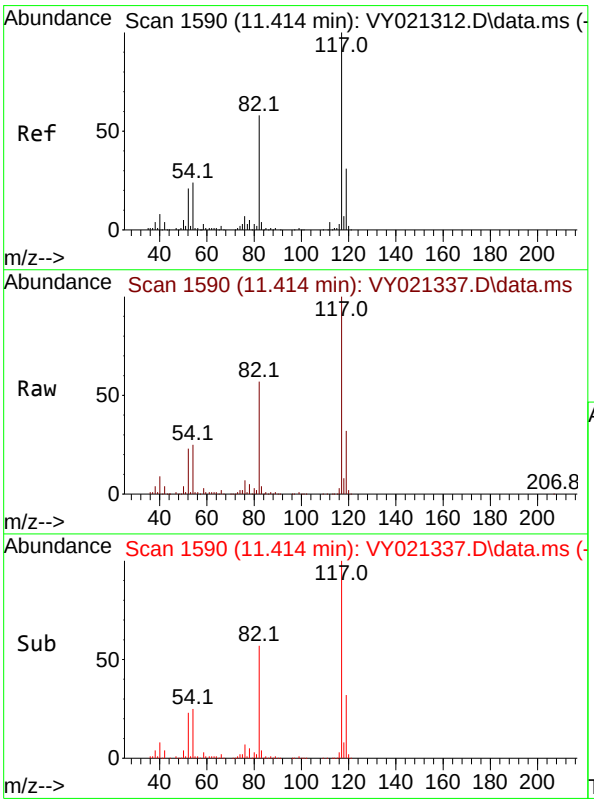
Ion	Ratio	Lower	Upper
95	100		
174	83.7	0.0	168.0
176	83.3	0.0	162.6



Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
APPROVED

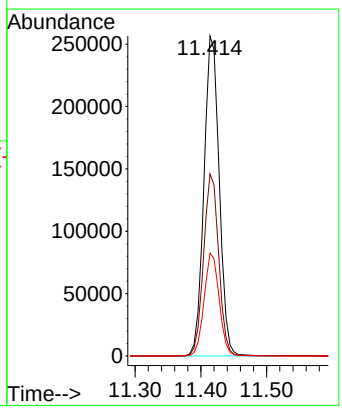
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

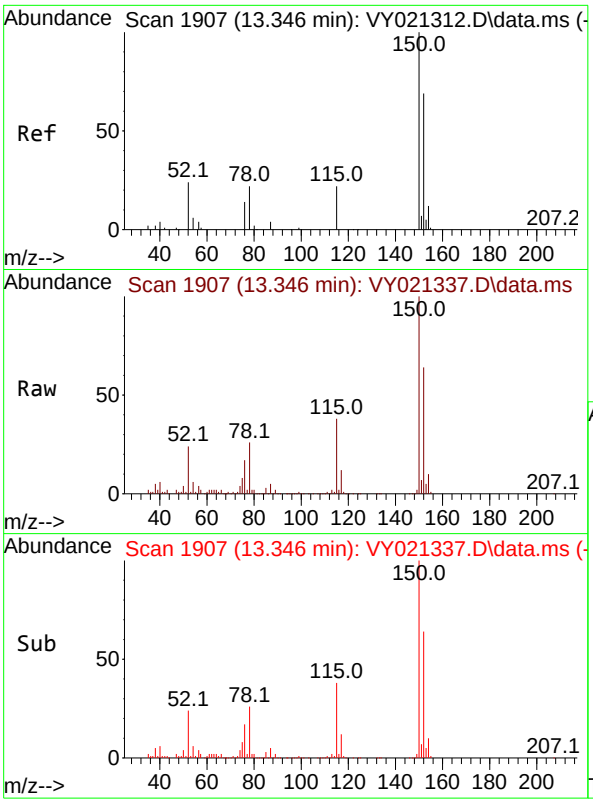


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion:117 Resp: 414734

Ion	Ratio	Lower	Upper
117	100		
82	56.9	46.2	69.4
119	32.1	24.9	37.3

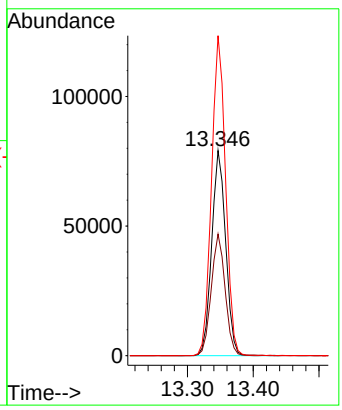




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion:152 Resp: 11727

Ion	Ratio	Lower	Upper
152	100		
115	58.8	29.3	88.0
150	156.3	0.0	347.4



Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Sample Results: **VY021337.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021337.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.489	118	126	141	rBV10	8192	29291	1.24%	0.218%
2	2.836	174	183	196	rBV	121288	266964	11.33%	1.991%
3	3.866	338	352	369	rBV3	31706	107599	4.57%	0.802%
4	4.128	384	395	412	rBV3	11011	42374	1.80%	0.316%
5	4.616	459	475	477	rBV3	21350	54710	2.32%	0.408%
6	4.708	478	490	504	rVB	654190	2168493	92.03%	16.171%
7	6.890	835	848	859	rBV	49725	158440	6.72%	1.182%
8	7.634	960	970	976	rBV	245494	586943	24.91%	4.377%
9	7.707	976	982	998	rVB	360940	823553	34.95%	6.142%
10	8.061	1030	1040	1050	rBV	202770	442527	18.78%	3.300%
11	8.615	1122	1131	1147	rBV	640715	1247420	52.94%	9.303%
12	10.103	1367	1375	1384	rBV	946407	1628176	69.10%	12.142%
13	10.511	1434	1442	1449	rBV	213707	399582	16.96%	2.980%
14	10.640	1457	1463	1469	rVB	50255	81726	3.47%	0.609%
15	10.877	1496	1502	1511	rBV	31355	55756	2.37%	0.416%
16	10.969	1511	1517	1524	rVB	41059	65803	2.79%	0.491%
17	11.200	1549	1555	1567	rVB	68250	113634	4.82%	0.847%
18	11.414	1583	1590	1600	rBV	827016	1331779	56.52%	9.932%
19	11.505	1600	1605	1610	rVB	15901	23771	1.01%	0.177%
20	11.639	1617	1627	1636	rBV4	44418	88612	3.76%	0.661%
21	11.932	1668	1675	1682	rBV9	12576	34550	1.47%	0.258%
22	12.414	1747	1754	1764	rVB2	1235229	2356299	100.00%	17.572%
23	12.731	1801	1806	1812	rVV2	81523	122601	5.20%	0.914%
24	13.243	1881	1890	1894	rBV6	17482	44390	1.88%	0.331%
25	13.346	1898	1907	1914	rVB	497467	775885	32.93%	5.786%
26	13.676	1954	1961	1965	rBV4	54172	91958	3.90%	0.686%
27	13.889	1989	1996	2003	rVB2	107572	178791	7.59%	1.333%
28	14.175	2037	2043	2050	rBV5	21735	50260	2.13%	0.375%
29	14.535	2097	2102	2108	rVB2	26690	37535	1.59%	0.280%

Sum of corrected areas: 13409422

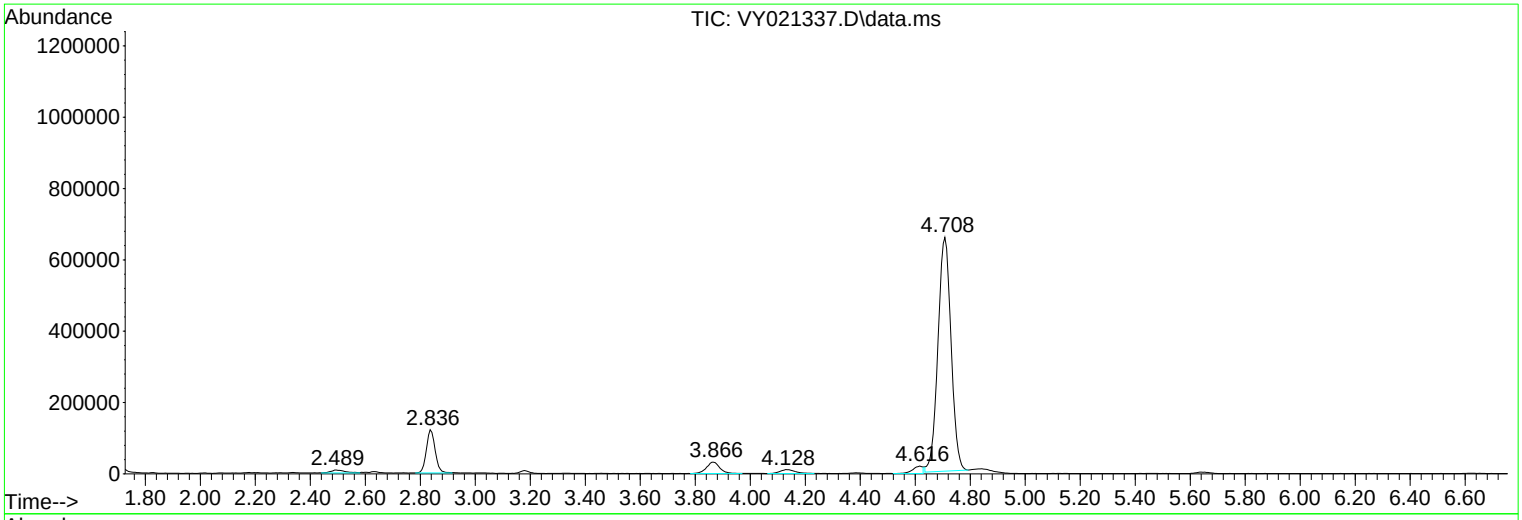
Sample Results: **VY021337.D**

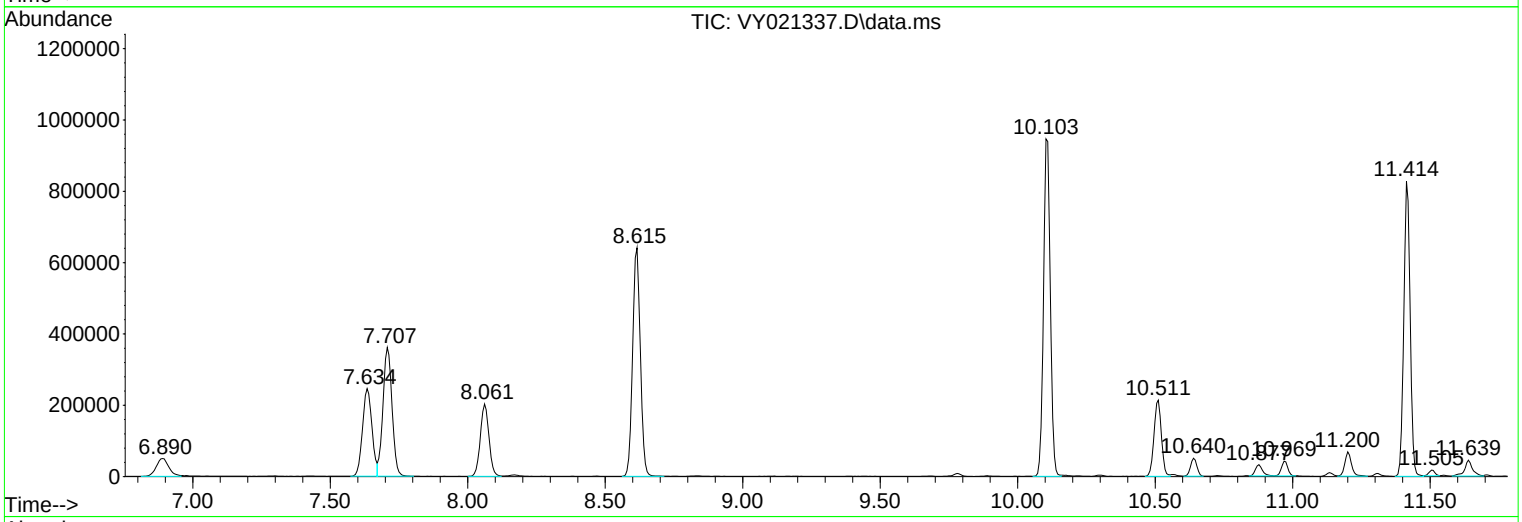
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

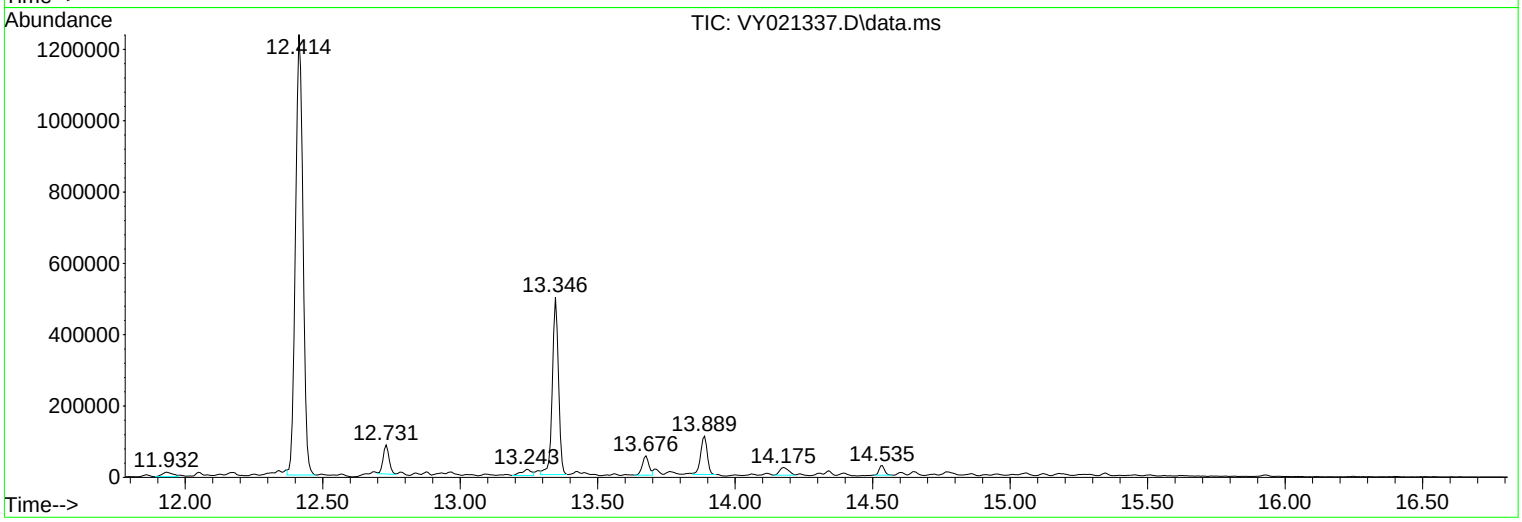
Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

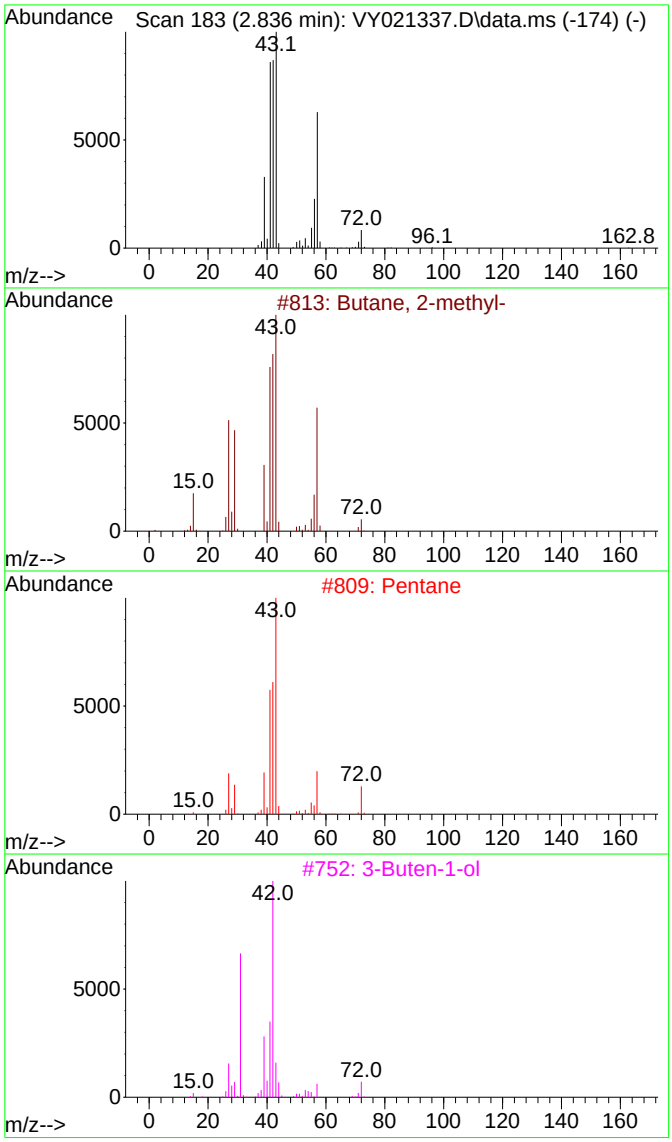
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

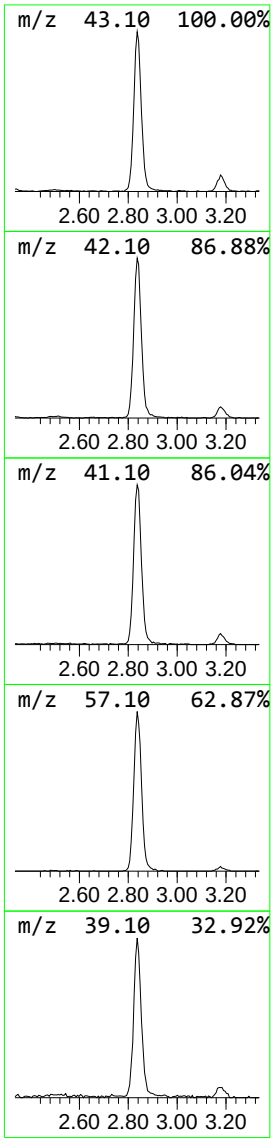
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.836	16.21 ug/l	266964	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Pentane	72	C5H12	000109-66-0	59
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Butene	56	C4H8	000106-98-9	14
5	Propane, 2-methyl-1-nitro-	103	C4H9NO2	000625-74-1	10





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

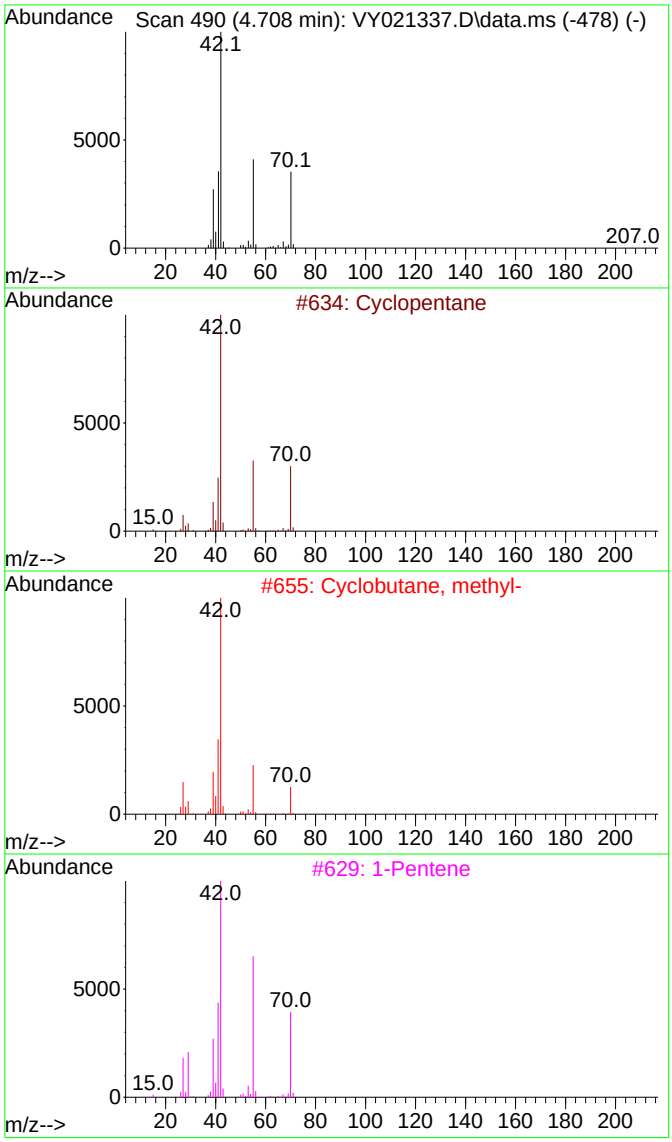
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

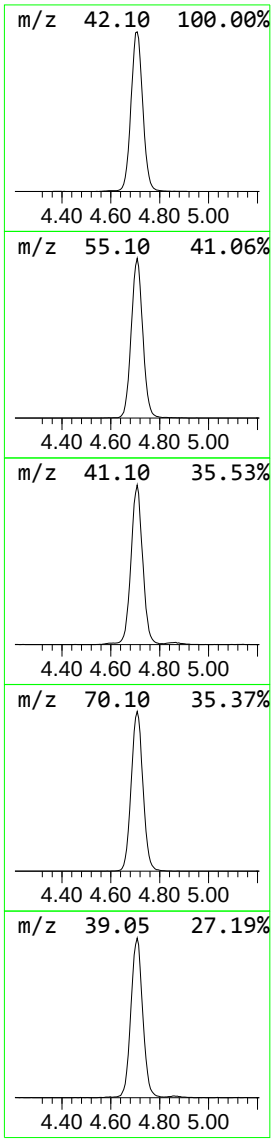
****

Peak Number 2 Cyclopentane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.708	131.66 ug/l	2168490	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	90
2	Cyclobutane, methyl-	70	C5H10	000598-61-8	86
3	1-Pentene	70	C5H10	000109-67-1	49
4	Cyclopropane, ethyl-	70	C5H10	001191-96-4	39
5	Methyl propargyl ether	70	C4H6O	000627-41-8	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

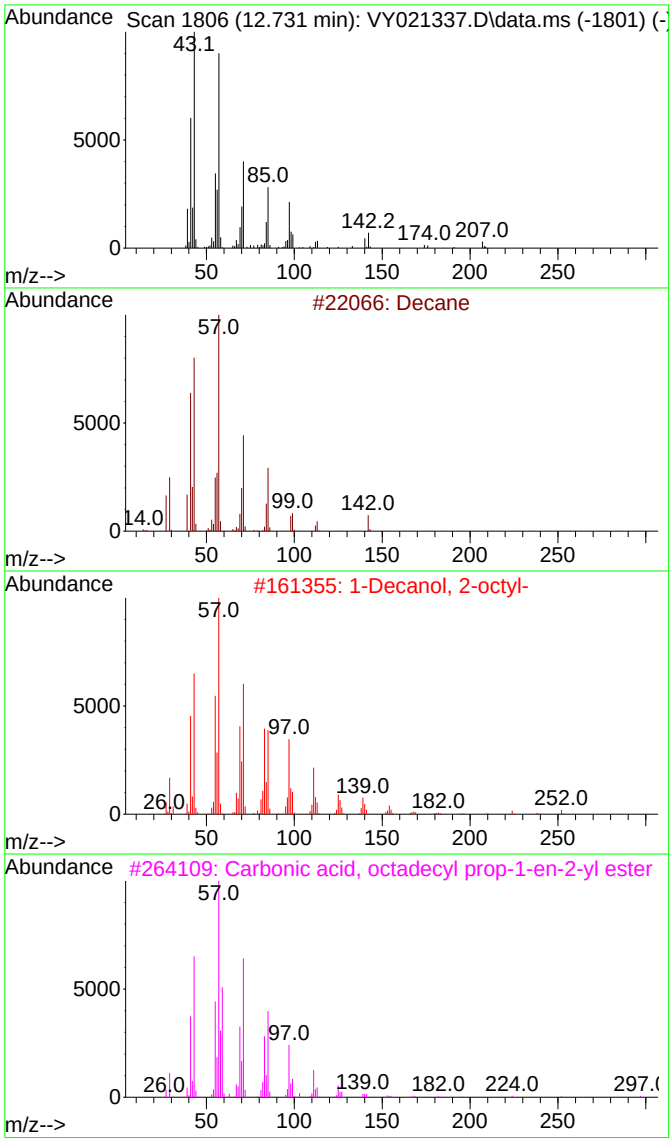
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

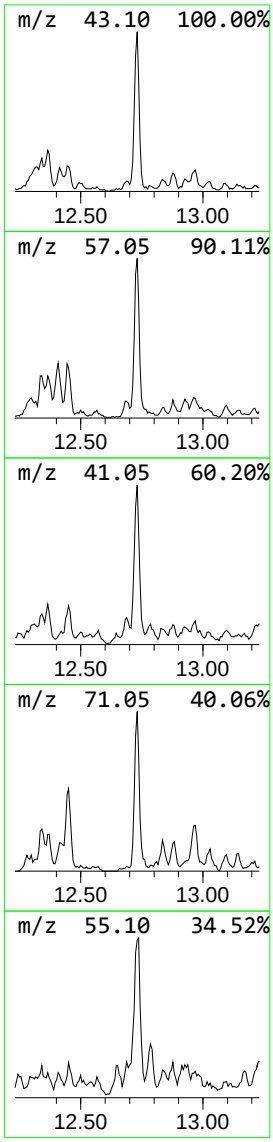
****

Peak Number 5 Decane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.731	7.90 ug/l	122601	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	95
2	1-Decanol, 2-octyl-	270	C18H38O	045235-48-1	78
3	Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	72
4	Carbonic acid, dodecyl vinyl ester	256	C15H28O3	1000382-54-8	59
5	Undecane	156	C11H24	001120-21-4	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

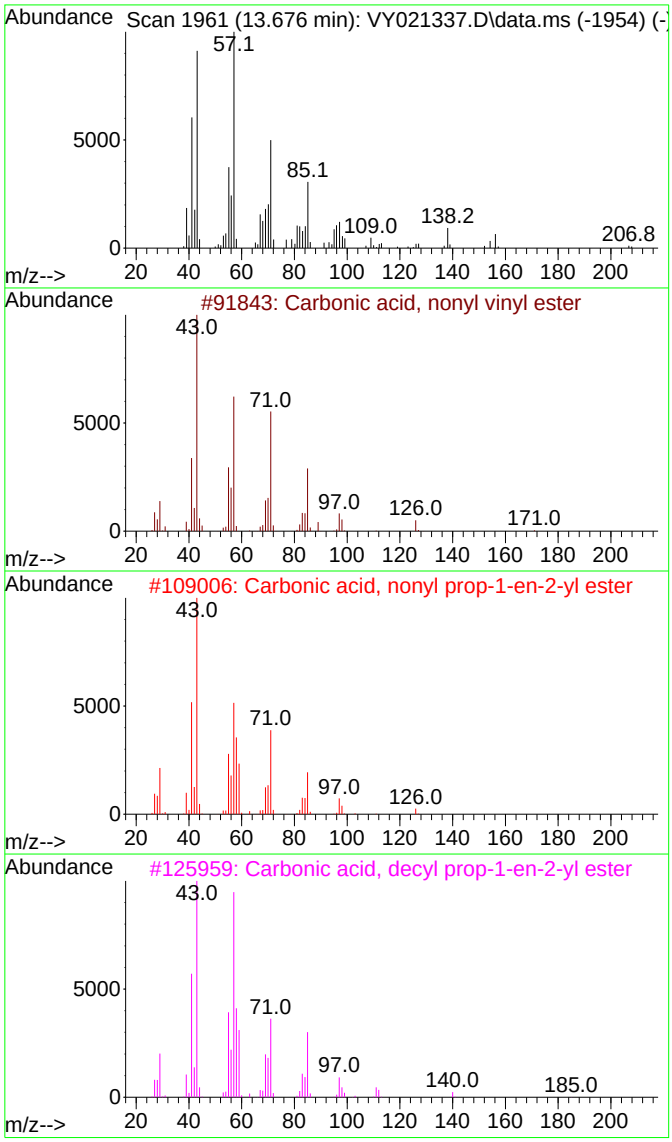
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

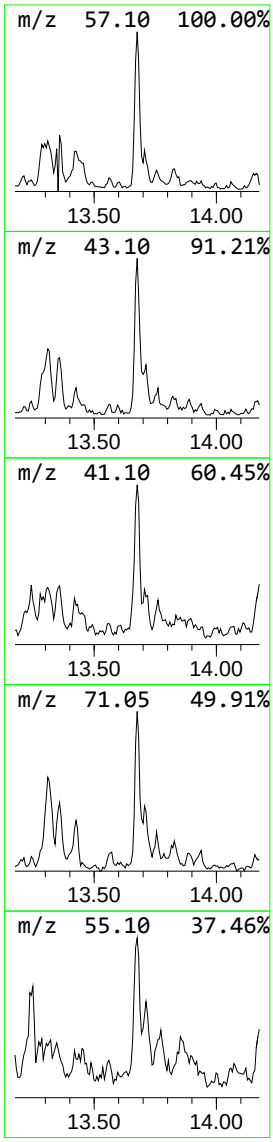
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Carbonic acid, nonyl vinyl ... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	5.93 ug/l	91958	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	64
2	Carbonic acid, nonyl prop-1-en-2...	228	C13H24O3	1000382-53-9	64
3	Carbonic acid, decyl prop-1-en-2...	242	C14H26O3	1000382-90-5	59
4	Undecane	156	C11H24	001120-21-4	58
5	Carbonic acid, octyl vinyl ester	200	C11H20O3	1000383-25-5	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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
Butane, 2-methyl-	2.836	16.2	ug/l	266964	1	7.707	823553	50.0
Cyclopentane	4.708	131.7	ug/l	2168490	1	7.707	823553	50.0
Decane	12.731	7.9	ug/l	122601	4	13.346	775885	50.0
Carbonic acid, ...	13.676	5.9	ug/l	91958	4	13.346	775885	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Time: Feb 25 23:33:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

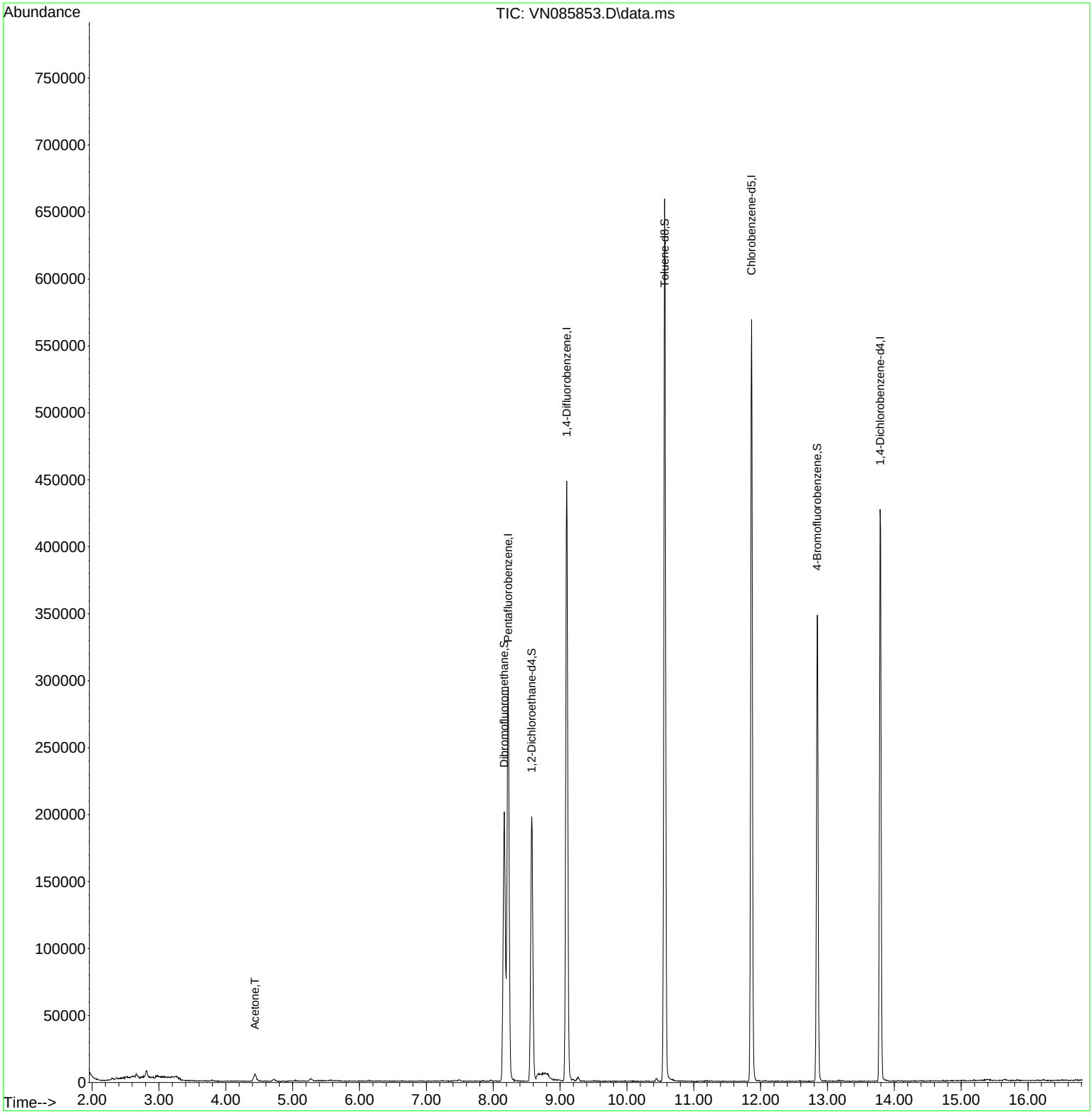
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	210441	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	393207	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	337792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	121445	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	162083	59.408	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.820%			
35) Dibromofluoromethane	8.165	113	142826	55.510	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.020%			
50) Toluene-d8	10.565	98	459744	49.112	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.220%			
62) 4-Bromofluorobenzene	12.847	95	124996	40.526	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 81.060%			
Target Compounds						Qvalue
16) Acetone	4.436	43	10019	11.606	ug/l	91

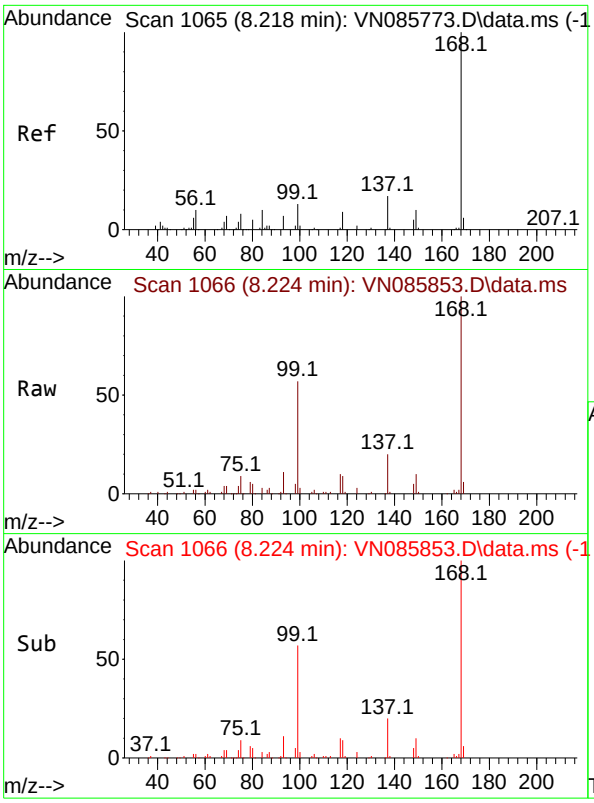
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Time: Feb 25 23:33:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



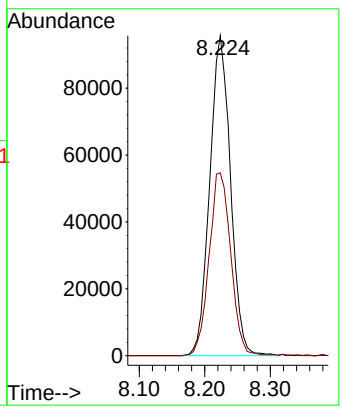


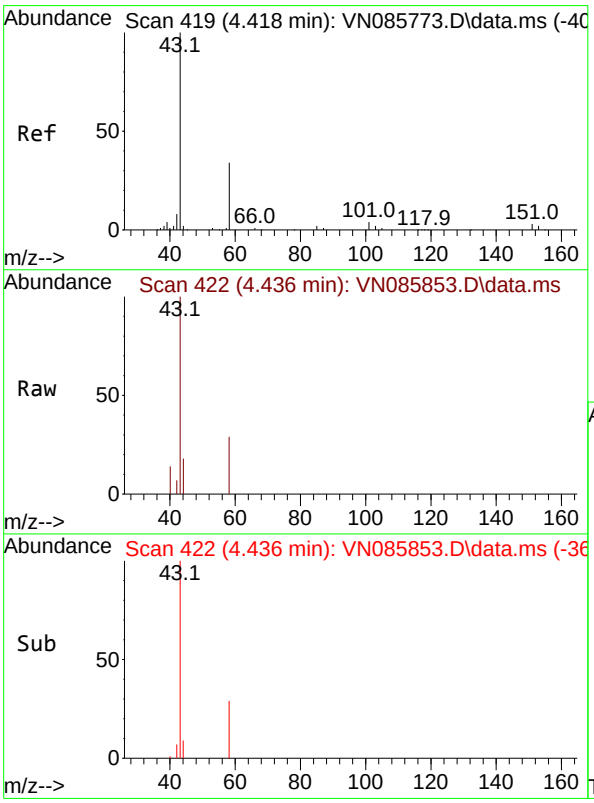
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Tgt Ion:168 Resp: 210441

Ion	Ratio	Lower	Upper
168	100		
99	57.1	47.9	71.9

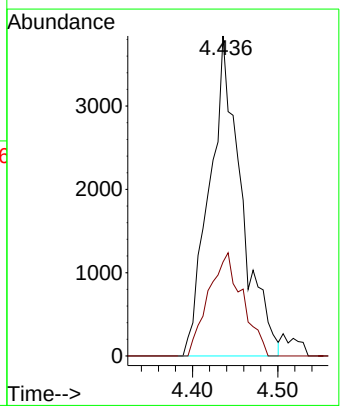


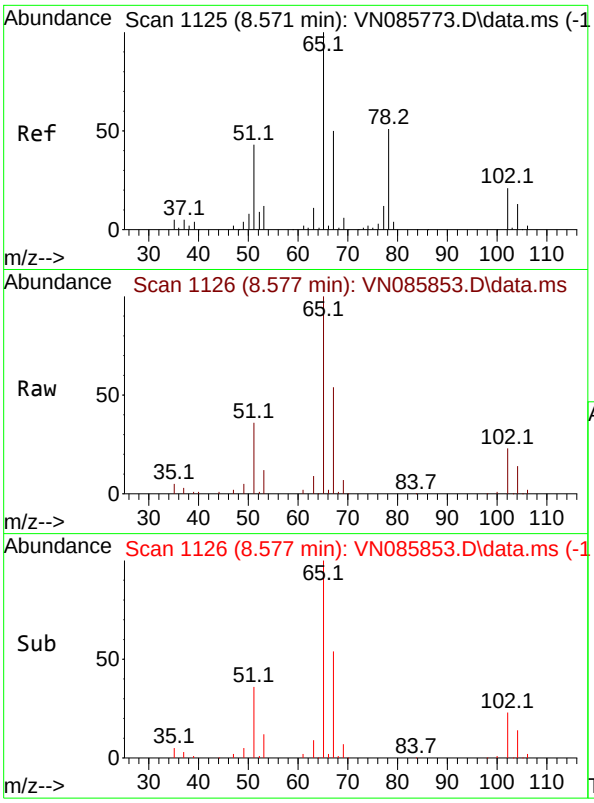


#16
Acetone
Concen: 11.606 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion: 43 Resp: 10019

Ion	Ratio	Lower	Upper
43	100		
58	29.4	27.5	41.3



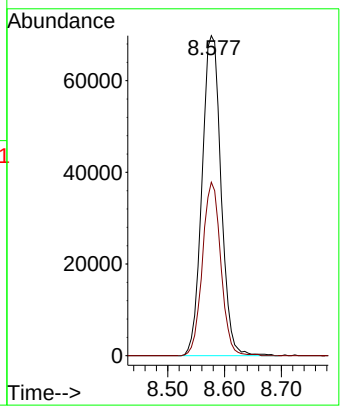


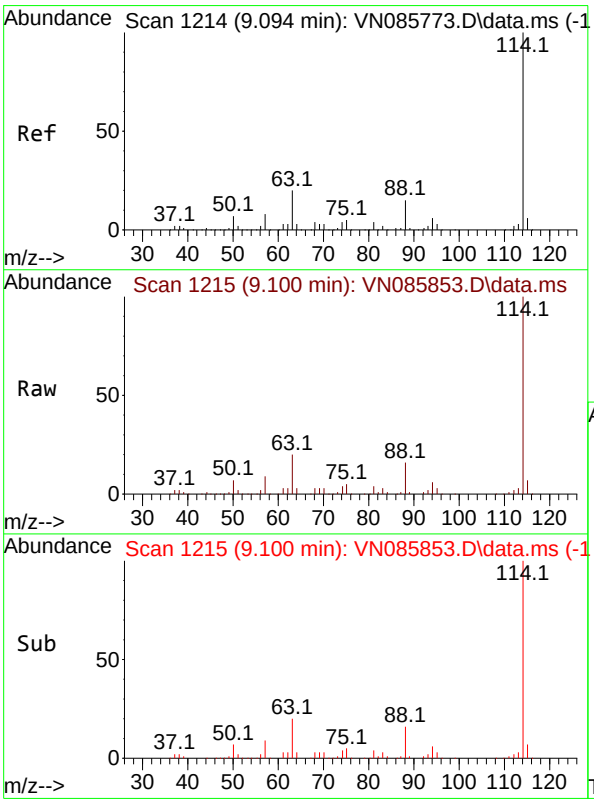
#33
1,2-Dichloroethane-d4
Concen: 59.408 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Tgt Ion: 65 Resp: 162083

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.2

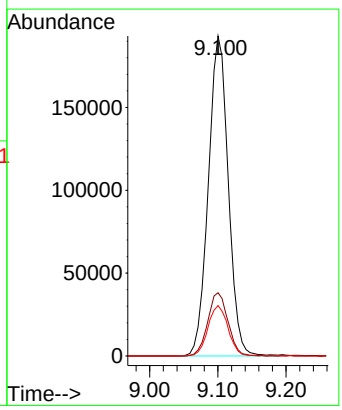


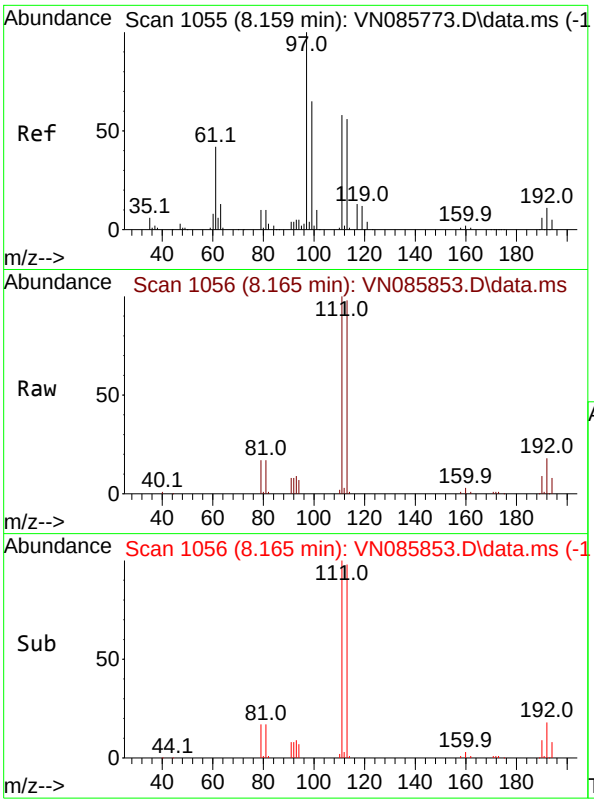


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion:114 Resp: 393207

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.2
88	15.8	0.0	30.0



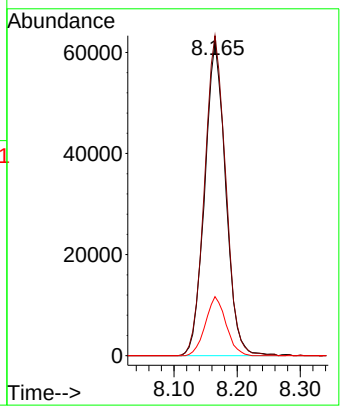


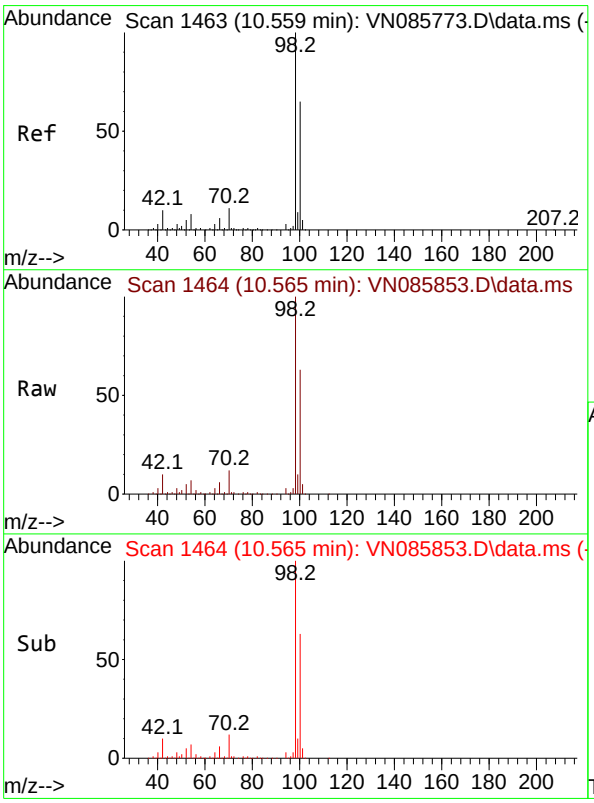
#35
Dibromofluoromethane
Concen: 55.510 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Tgt Ion:113 Resp: 142826

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	18.6	14.7	22.1

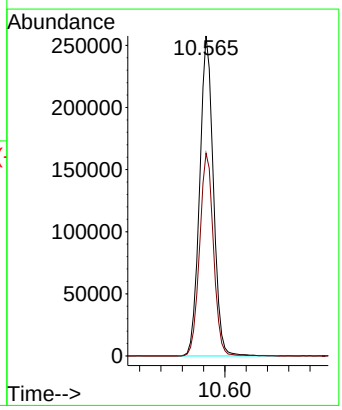


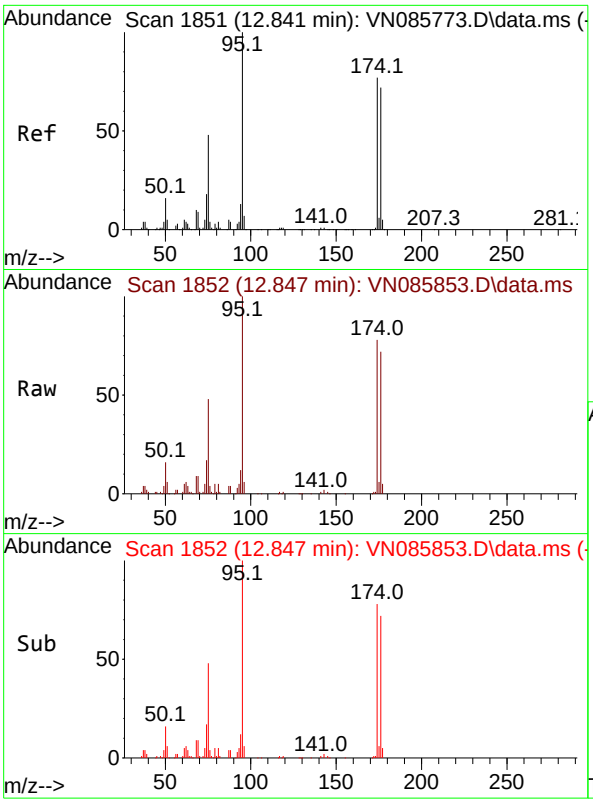


#50
Toluene-d8
Concen: 49.112 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion: 98 Resp: 459744

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.1	78.1



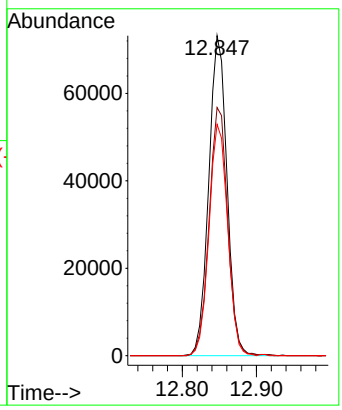


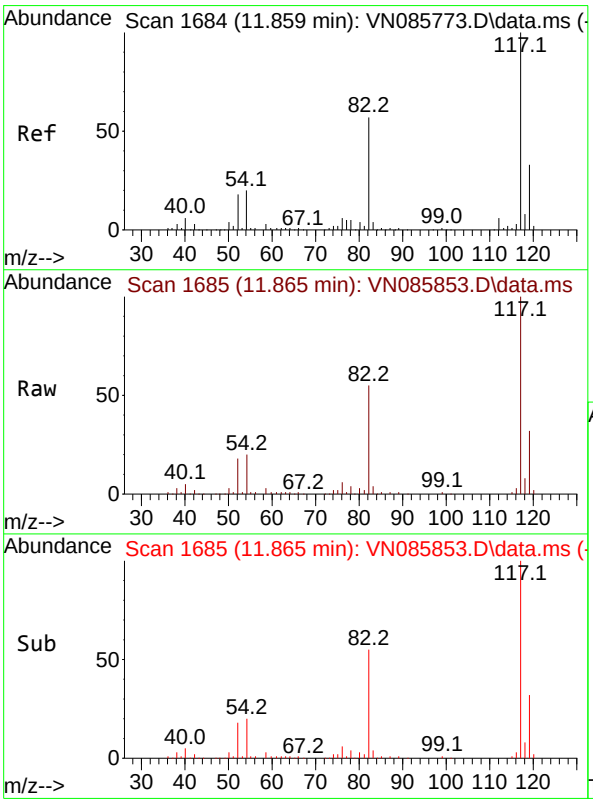
#62
4-Bromofluorobenzene
Concen: 40.526 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Tgt Ion: 95 Resp: 124996

Ion	Ratio	Lower	Upper
95	100		
174	79.2	0.0	152.4
176	73.9	0.0	146.6

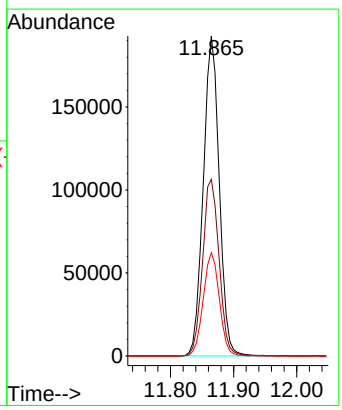


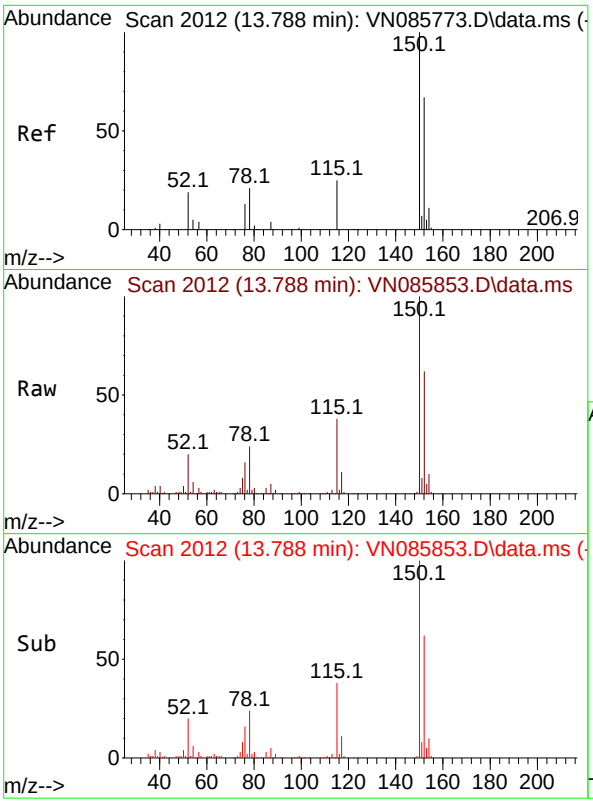


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion:117 Resp: 337792

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.7	68.5
119	32.2	26.2	39.2



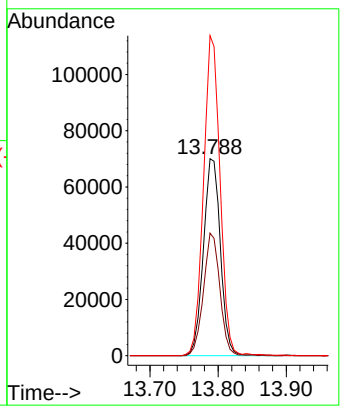


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Tgt Ion:152 Resp: 121445

Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.4	91.3
150	158.3	0.0	345.4



Sample Results: **VN085853.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085853.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.436	414	422	433	rBV2	5606	15522	1.31%	0.259%
2	8.165	1045	1056	1061	rBV	201248	473137	39.98%	7.883%
3	8.224	1061	1066	1077	rVB	293782	636495	53.78%	10.605%
4	8.577	1117	1126	1137	rBV	197513	443481	37.47%	7.389%
5	9.100	1205	1215	1227	rBV	448001	918122	77.58%	15.297%
6	10.565	1455	1464	1480	rBV	659016	1183494	100.00%	19.719%
7	11.865	1676	1685	1698	rBV	568781	1009063	85.26%	16.812%
8	12.847	1842	1852	1865	rBV	348267	601799	50.85%	10.027%
9	13.788	2005	2012	2021	rBV	426992	720821	60.91%	12.010%

Sum of corrected areas: 6001934

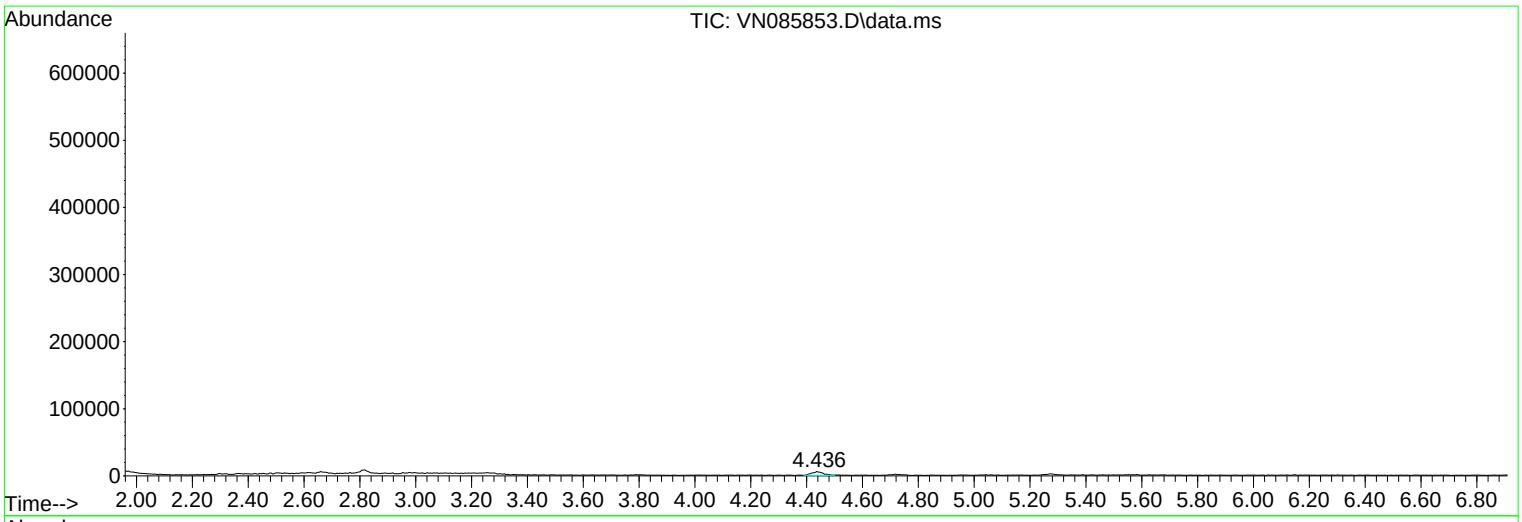
Sample Results: **VN085853.D**

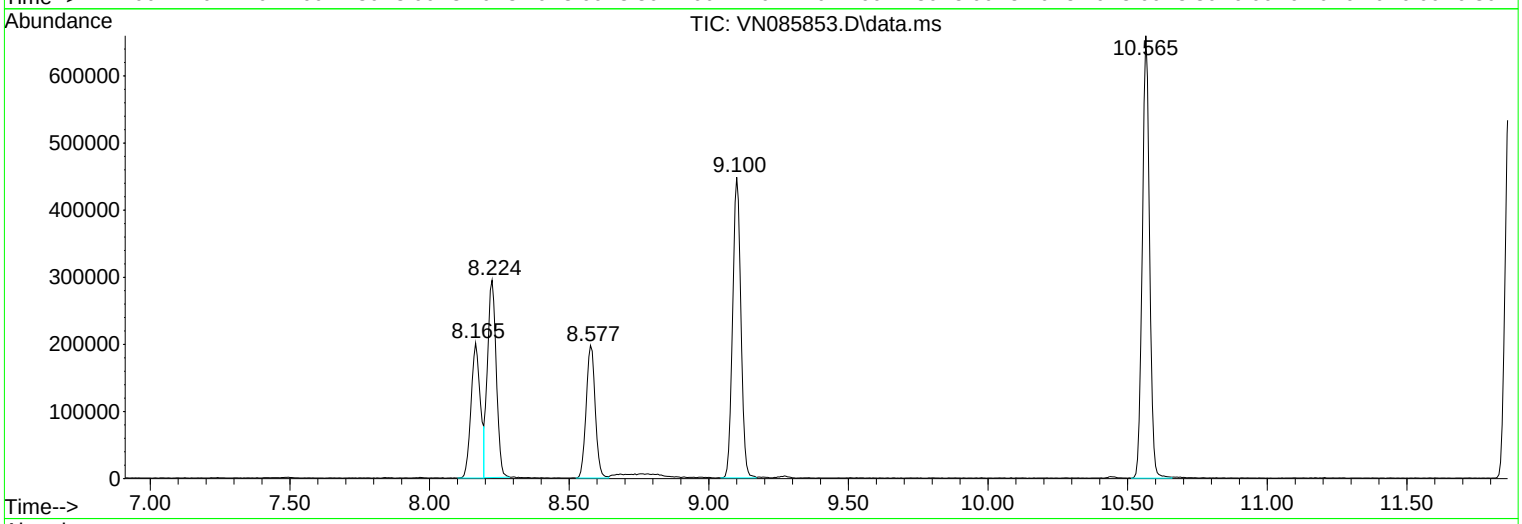
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

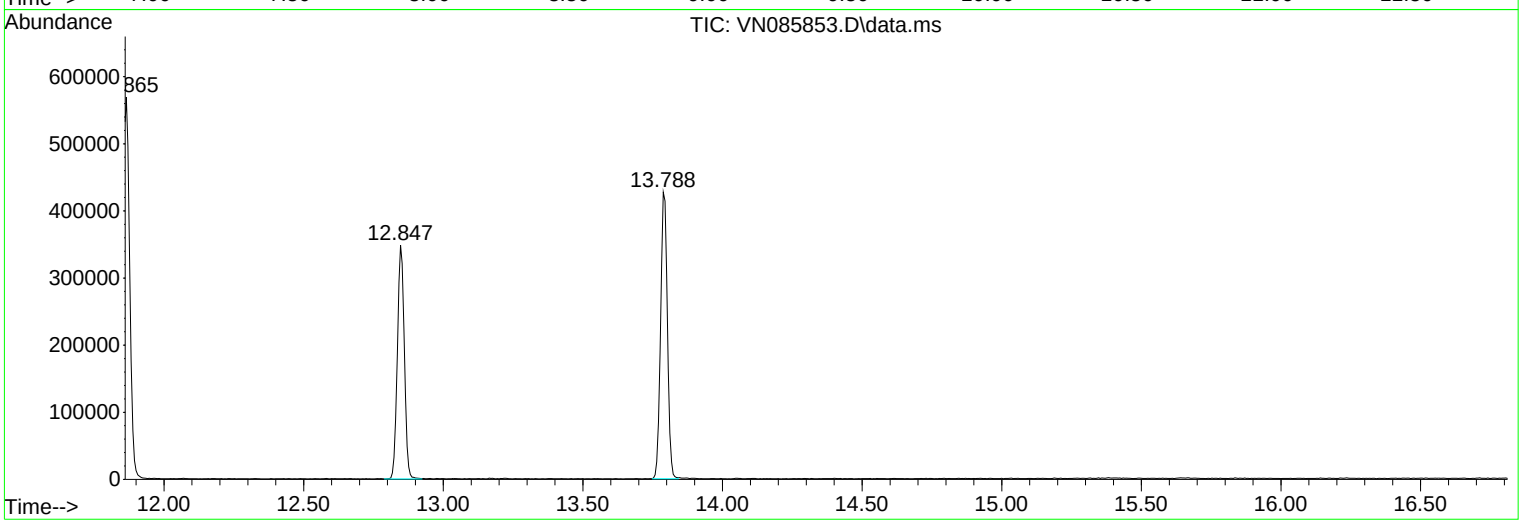
Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VN085853.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Time: Feb 25 01:58:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

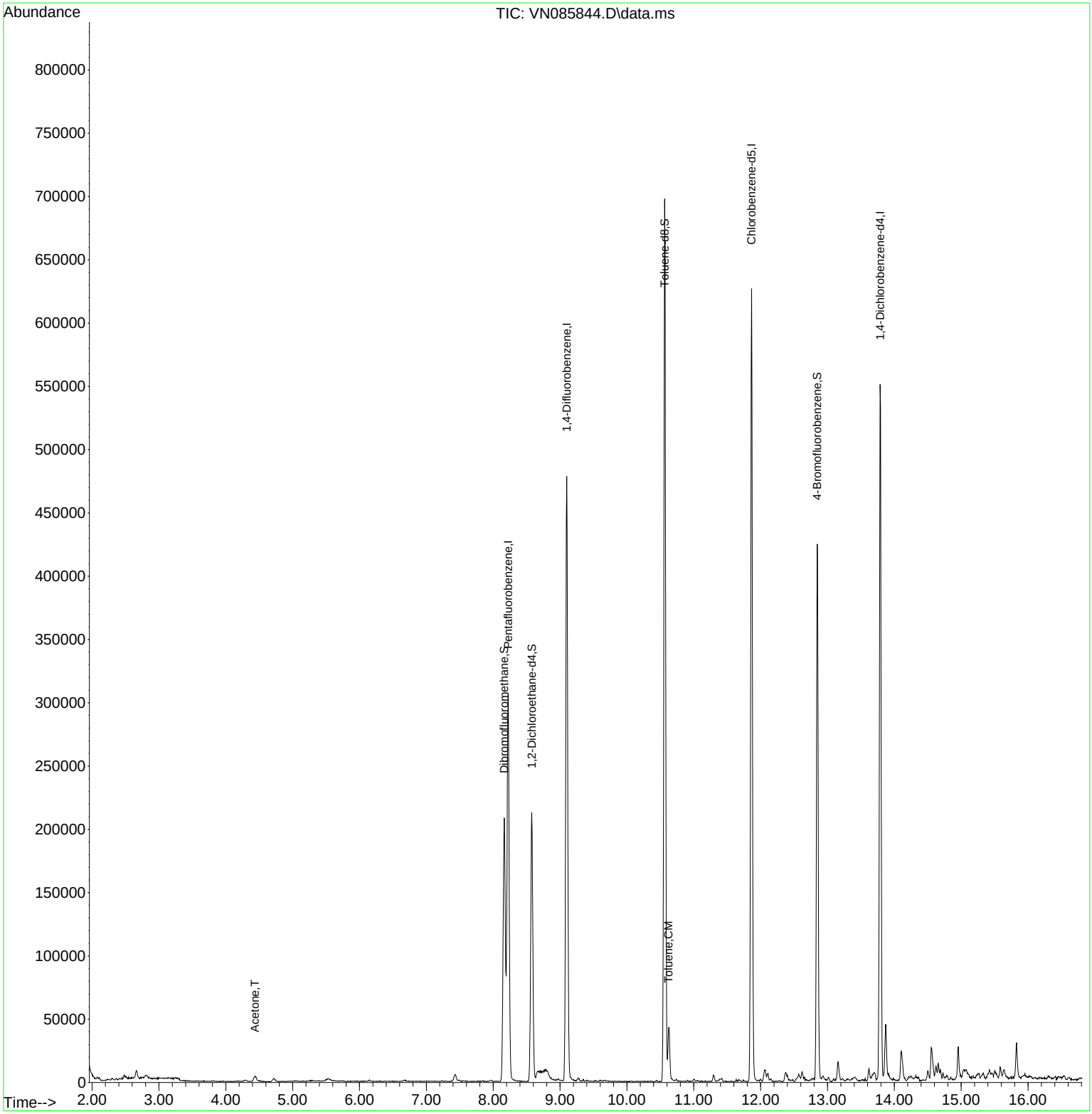
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	217128	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	416577	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	372406	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157372	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	170001	60.391	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 120.780%			
35) Dibromofluoromethane	8.165	113	151695	55.650	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.300%			
50) Toluene-d8	10.565	98	493499	49.760	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.520%			
62) 4-Bromofluorobenzene	12.847	95	152352	46.625	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.240%			
Target Compounds						Qvalue
16) Acetone	4.436	43	8069	9.059	ug/l	93
52) Toluene	10.623	92	18152	2.504	ug/l	97

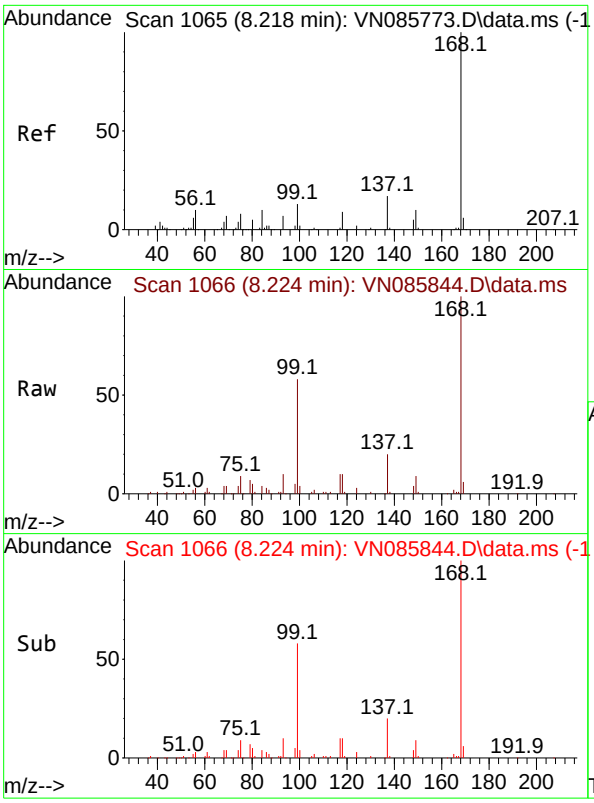
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Time: Feb 25 01:58:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



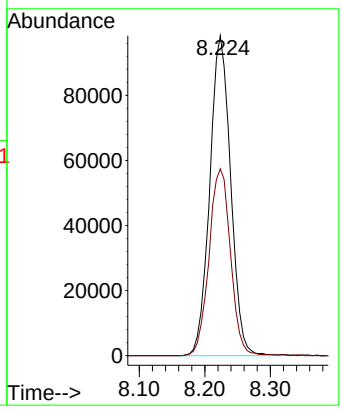


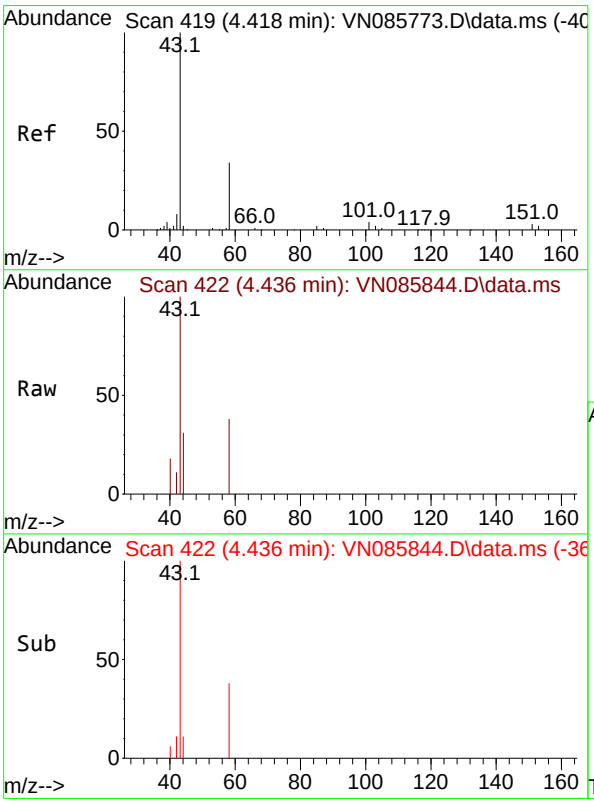
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Tgt Ion:168 Resp: 217128

Ion	Ratio	Lower	Upper
168	100		
99	58.4	47.9	71.9

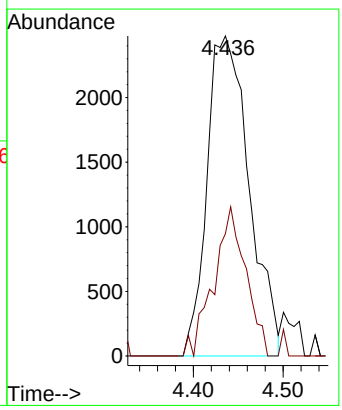


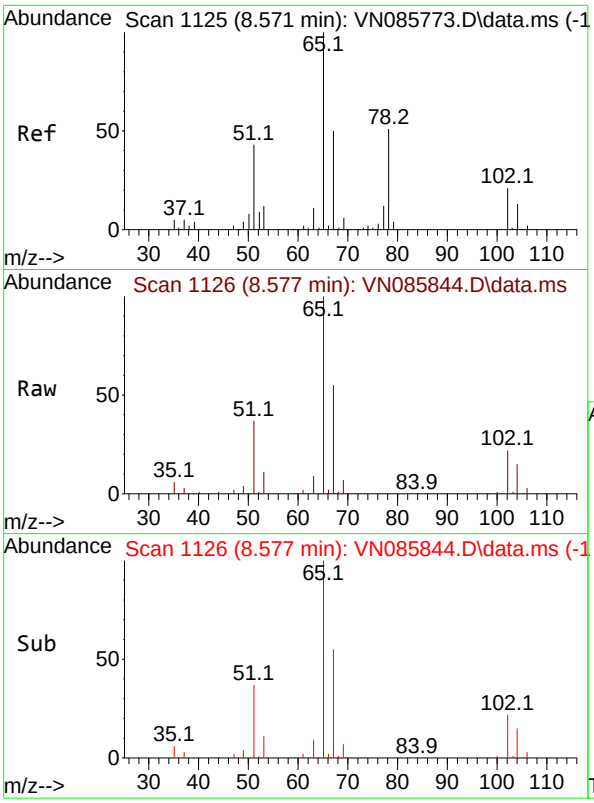


#16
Acetone
Concen: 9.059 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion: 43 Resp: 8069

Ion	Ratio	Lower	Upper
43	100		
58	38.2	27.5	41.3



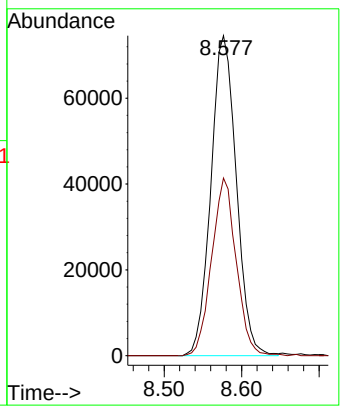


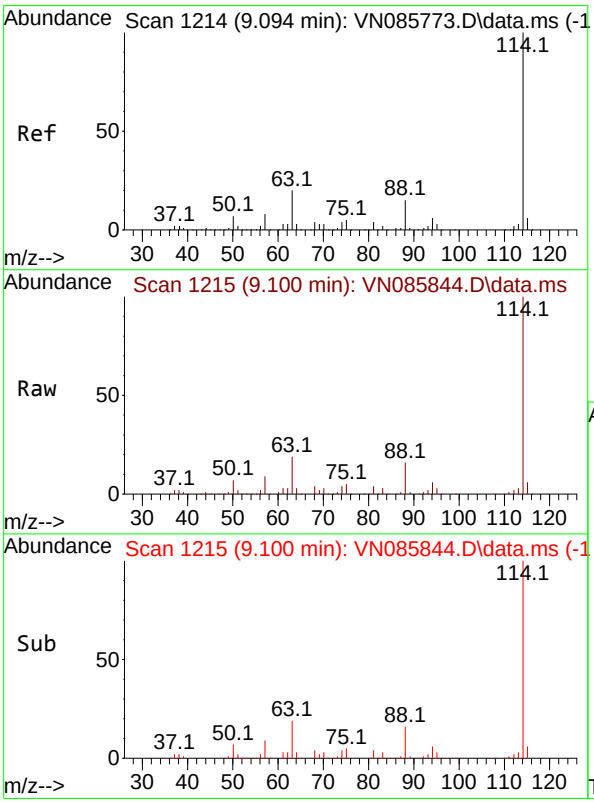
#33
1,2-Dichloroethane-d4
Concen: 60.391 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Tgt Ion: 65 Resp: 170001

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	106.2

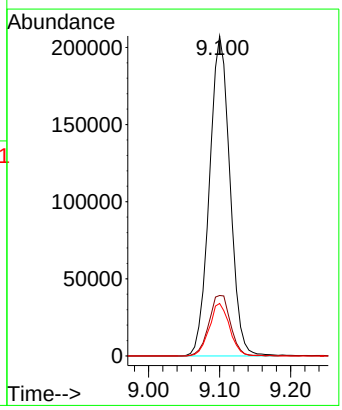


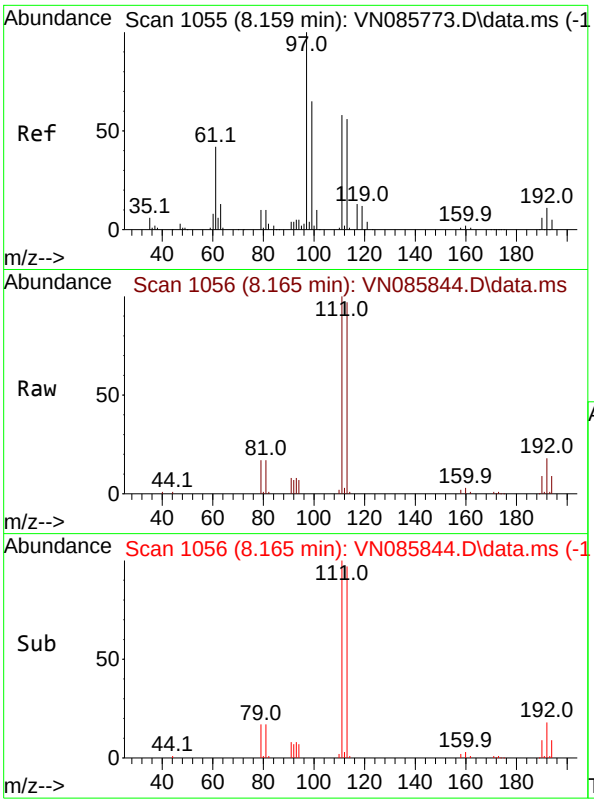


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion:114 Resp: 416577

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	39.2
88	16.4	0.0	30.0



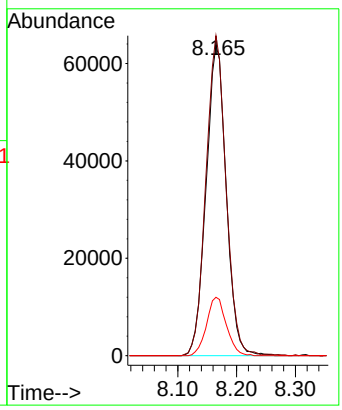


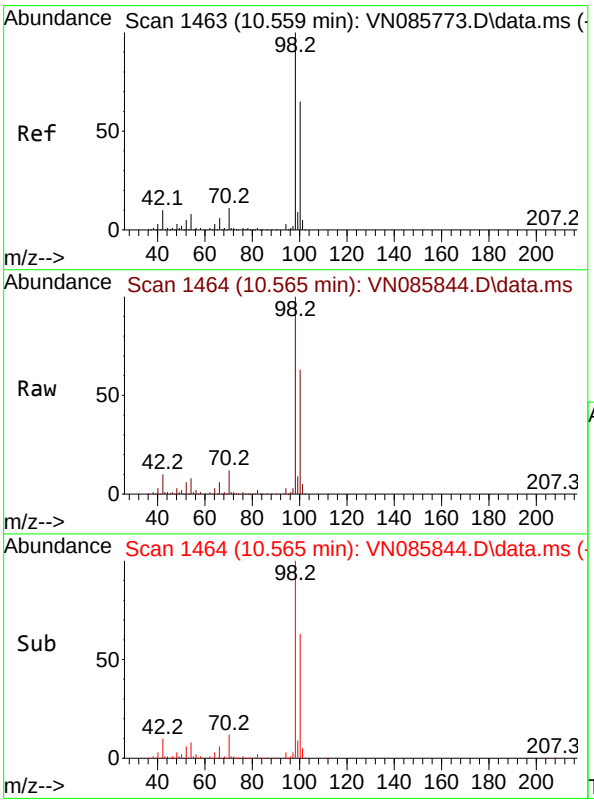
#35
Dibromofluoromethane
Concen: 55.650 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Tgt Ion:113 Resp: 151695

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.4
192	18.5	14.7	22.1

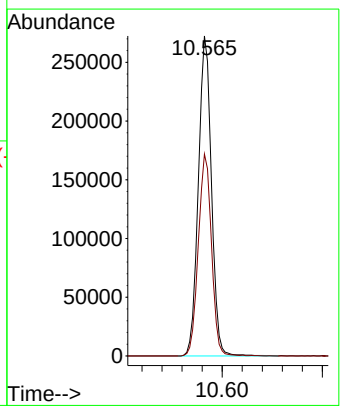


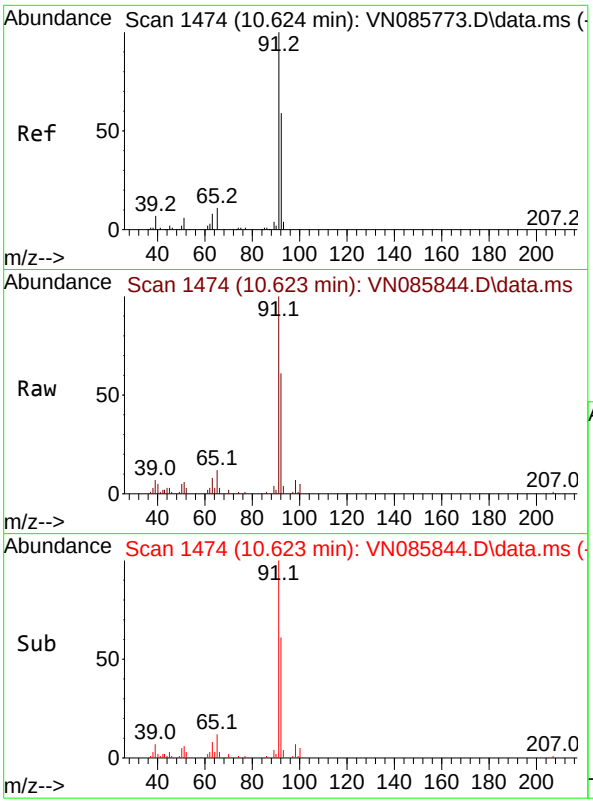


#50
Toluene-d8
Concen: 49.760 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion: 98 Resp: 493499

Ion	Ratio	Lower	Upper
98	100		
100	63.6	52.1	78.1



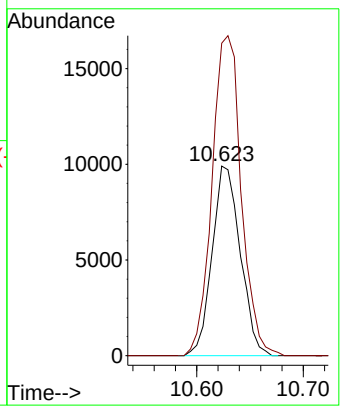


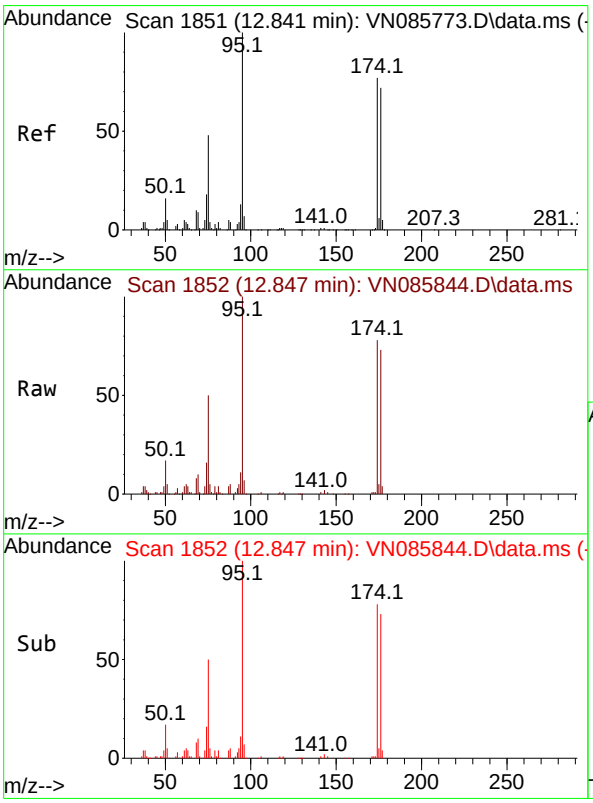
#52
Toluene
Concen: 2.504 ug/l
RT: 10.623 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Tgt Ion: 92 Resp: 18152

Ion	Ratio	Lower	Upper
92	100		
91	175.6	136.9	205.3

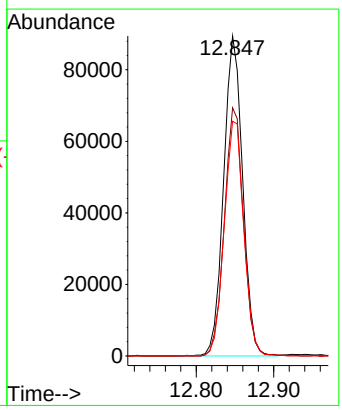


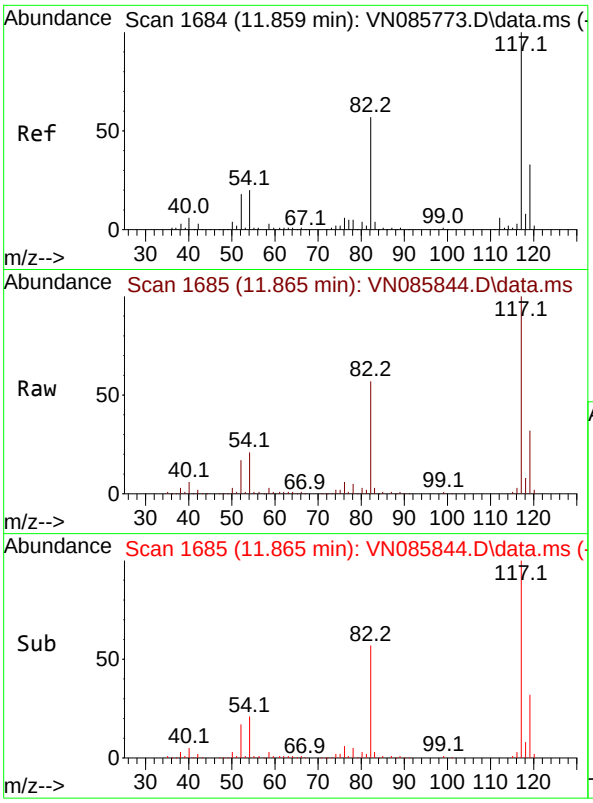


#62
4-Bromofluorobenzene
Concen: 46.625 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion: 95 Resp: 152352

Ion	Ratio	Lower	Upper
95	100		
174	78.3	0.0	152.4
176	75.6	0.0	146.6



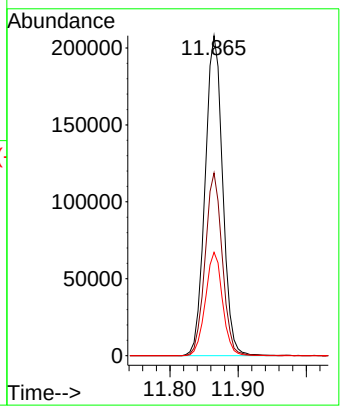


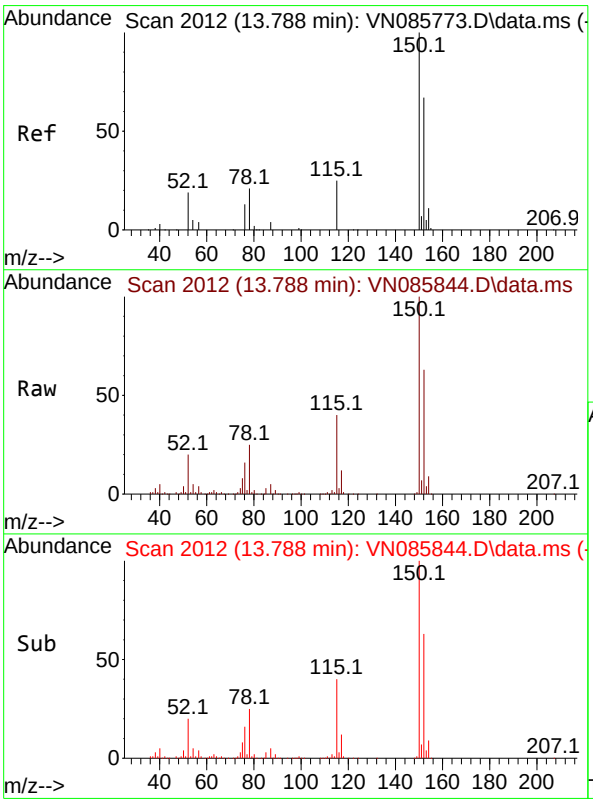
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Tgt Ion:117 Resp: 372406

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.7	68.5
119	32.3	26.2	39.2

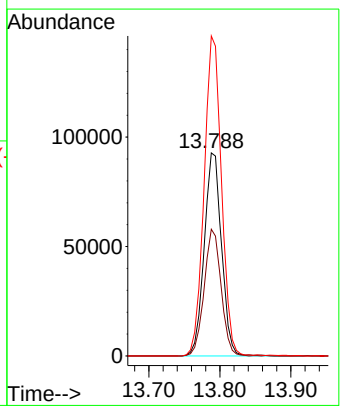




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion:152 Resp: 157372

Ion	Ratio	Lower	Upper
152	100		
115	60.9	30.4	91.3
150	157.9	0.0	345.4



Sample Results: **VN085844.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085844.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.665	114	121	129	rVB2	6545	14416	1.14%	0.199%
2	8.165	1046	1056	1061	rBV	208270	500911	39.47%	6.911%
3	8.224	1061	1066	1081	rVB	305900	661805	52.15%	9.131%
4	8.577	1117	1126	1136	rBV	212487	474513	37.39%	6.547%
5	8.671	1136	1142	1145	rBV6	5323	12793	1.01%	0.177%
6	9.100	1205	1215	1231	rBV	477739	972197	76.61%	13.414%
7	10.565	1455	1464	1471	rBV	697460	1269041	100.00%	17.510%
8	10.629	1471	1475	1482	rVB	41046	75828	5.98%	1.046%
9	11.865	1676	1685	1699	rBV	626446	1103234	86.93%	15.222%
10	12.070	1712	1720	1723	rBV5	9160	21391	1.69%	0.295%
11	12.376	1764	1772	1775	rBV6	7192	14778	1.16%	0.204%
12	12.570	1794	1805	1810	rBV8	5858	16576	1.31%	0.229%
13	12.847	1845	1852	1860	rBV	423284	732561	57.73%	10.107%
14	13.159	1899	1905	1912	rBV4	14441	27647	2.18%	0.381%
15	13.623	1978	1984	1988	rBV4	9909	16723	1.32%	0.231%
16	13.700	1993	1997	2002	rVB7	5881	13021	1.03%	0.180%
17	13.788	2002	2012	2020	rBV	549484	937387	73.87%	12.934%
18	13.870	2020	2026	2033	rVV2	40847	69618	5.49%	0.961%
19	14.106	2059	2066	2074	rBV6	23326	53675	4.23%	0.741%
20	14.500	2128	2133	2138	rBV5	7642	14287	1.13%	0.197%
21	14.553	2138	2142	2150	rVV6	25395	56191	4.43%	0.775%
22	14.623	2150	2154	2157	rVV5	10047	16850	1.33%	0.232%
23	14.658	2157	2160	2163	rVV3	12021	17408	1.37%	0.240%
24	14.958	2202	2211	2216	rBV4	25862	46066	3.63%	0.636%
25	15.047	2219	2226	2227	rBV4	6510	12728	1.00%	0.176%
26	15.423	2280	2290	2294	rBV7	7264	19298	1.52%	0.266%
27	15.506	2300	2304	2313	rVB6	5797	13031	1.03%	0.180%
28	15.582	2313	2317	2322	rBV5	8719	14658	1.16%	0.202%
29	15.829	2352	2359	2366	rBV2	28061	49090	3.87%	0.677%

Sum of corrected areas: 7247722

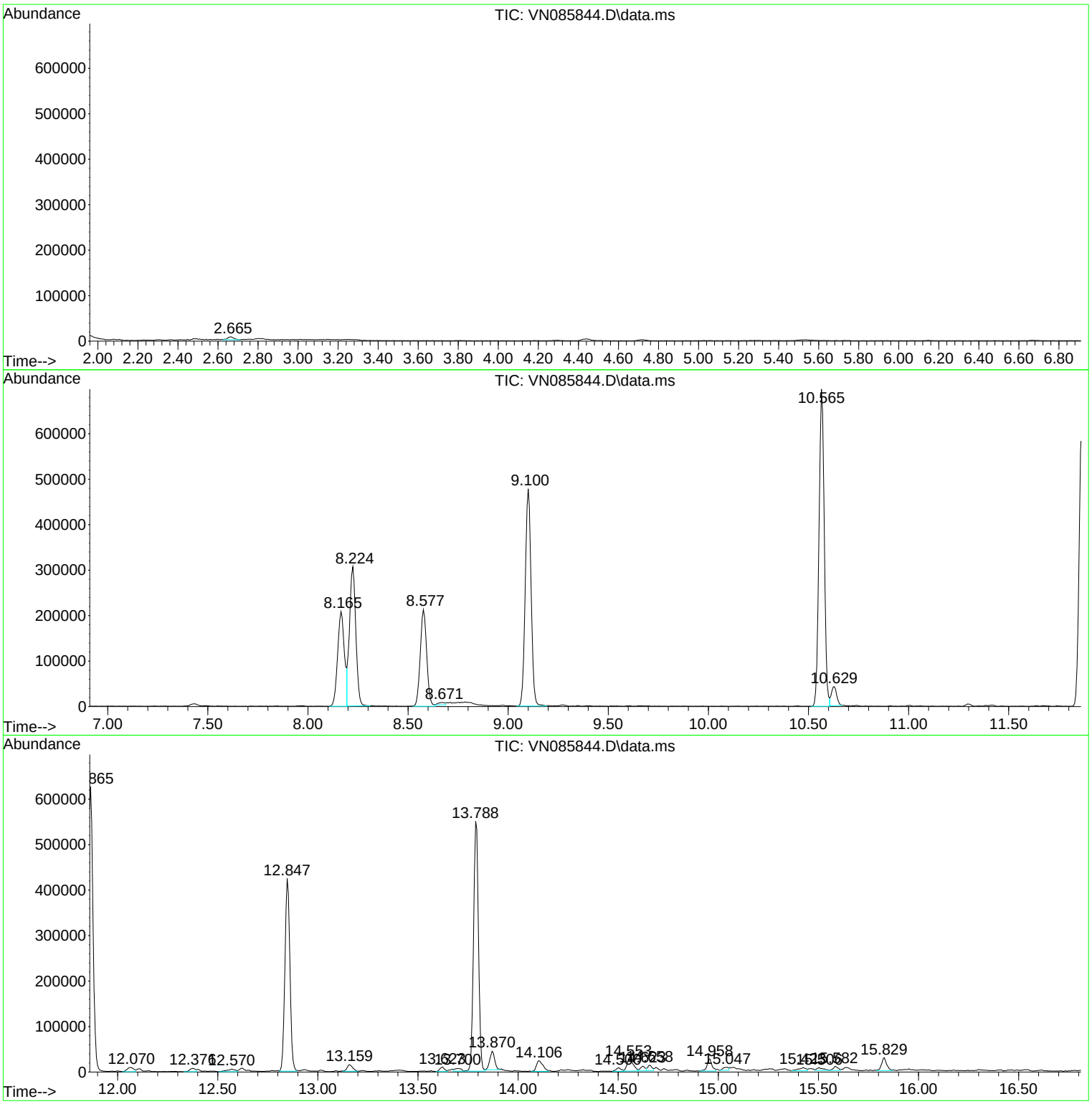
Sample Results: **VN085844.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Time: Feb 25 01:51:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

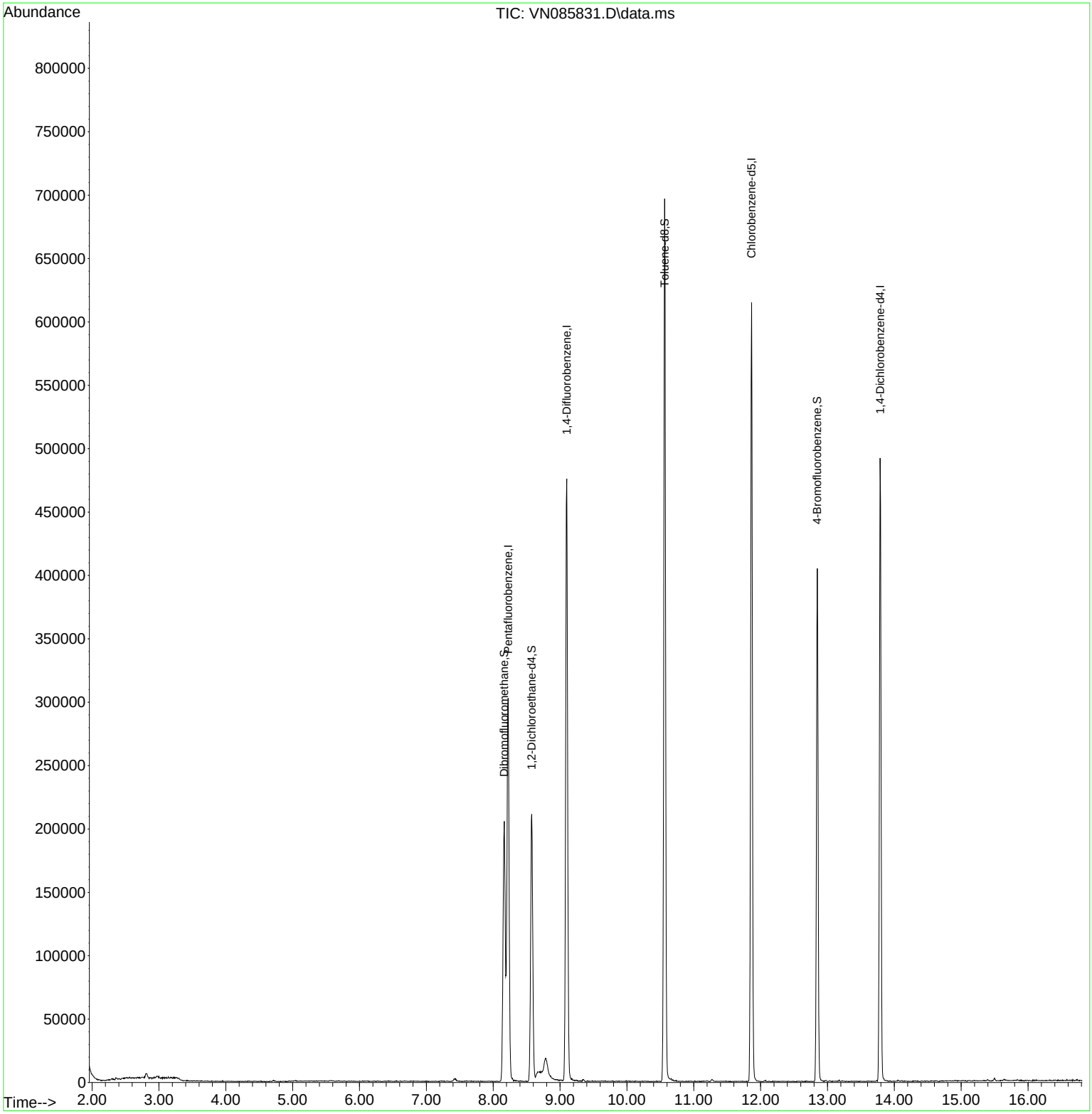
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	219652	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	415867	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	368217	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141296	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	171306	60.156	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 120.320%			
35) Dibromofluoromethane	8.165	113	149510	54.942	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.880%			
50) Toluene-d8	10.565	98	492086	49.702	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.400%			
62) 4-Bromofluorobenzene	12.847	95	144556	44.314	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 88.620%			
Target Compounds						Qvalue

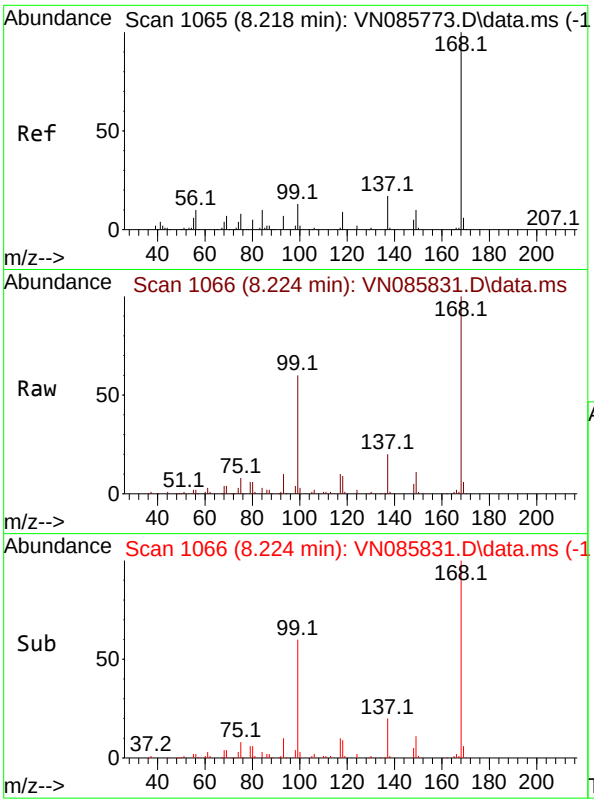
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Time: Feb 25 01:51:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



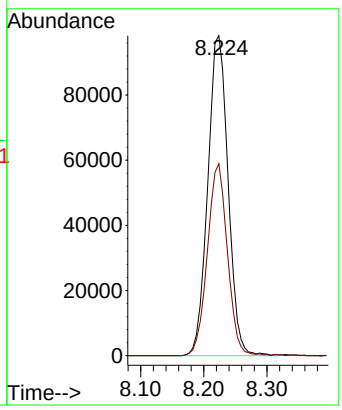


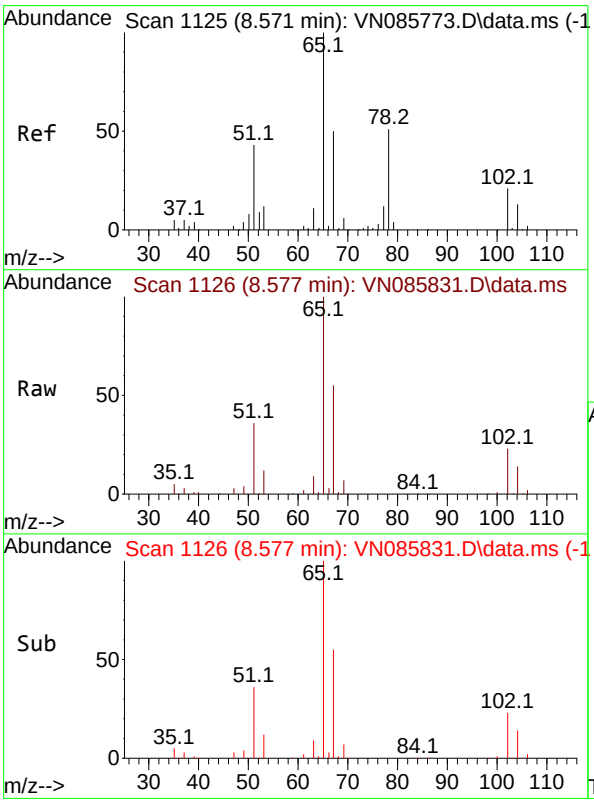
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Tgt Ion:168 Resp: 219652

Ion	Ratio	Lower	Upper
168	100		
99	60.0	47.9	71.9

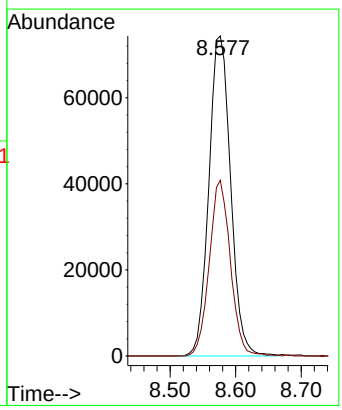


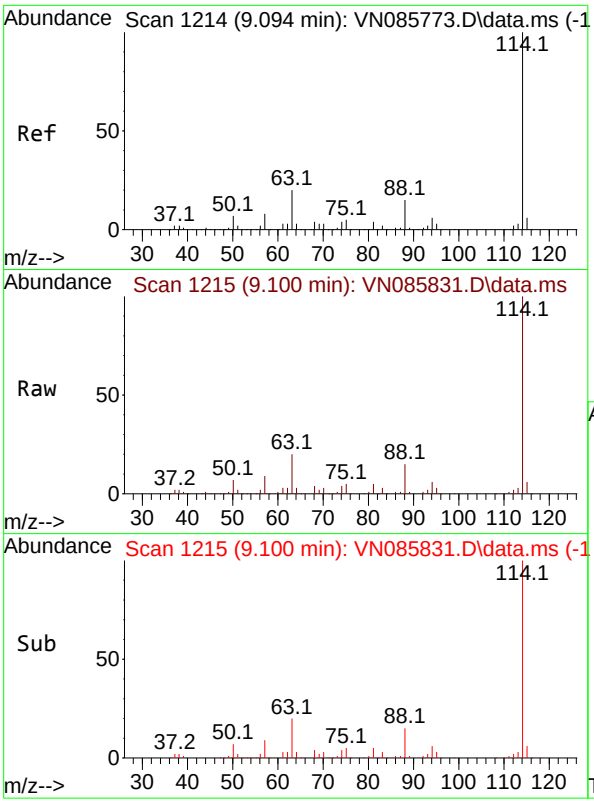


#33
1,2-Dichloroethane-d4
Concen: 60.156 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion: 65 Resp: 171306

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.2



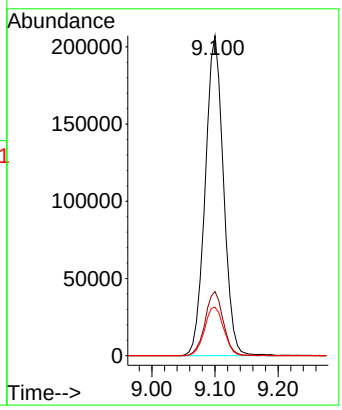


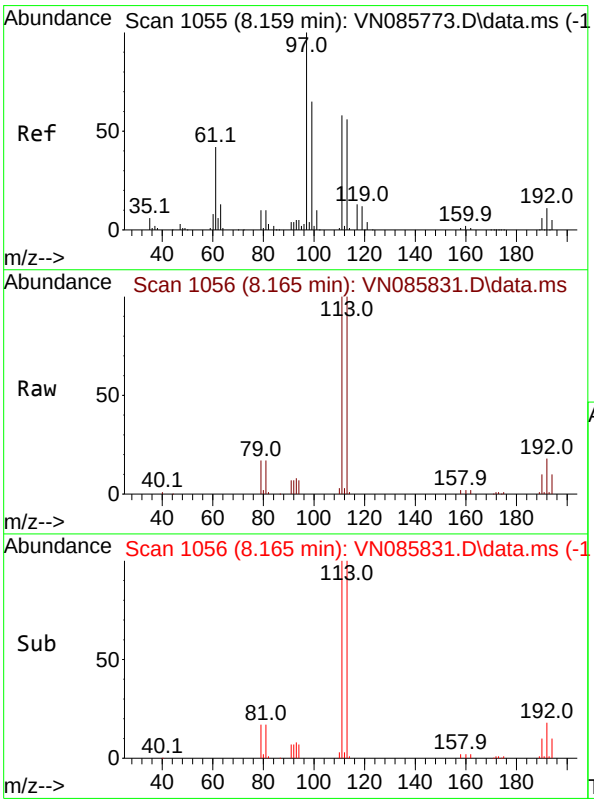
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Tgt Ion:114 Resp: 415867

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.2
88	15.1	0.0	30.0

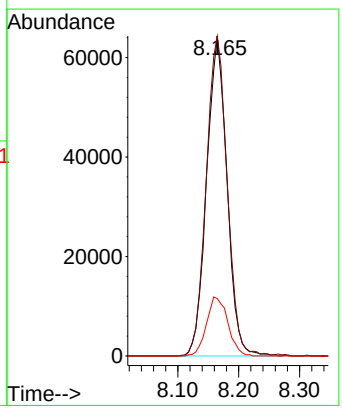


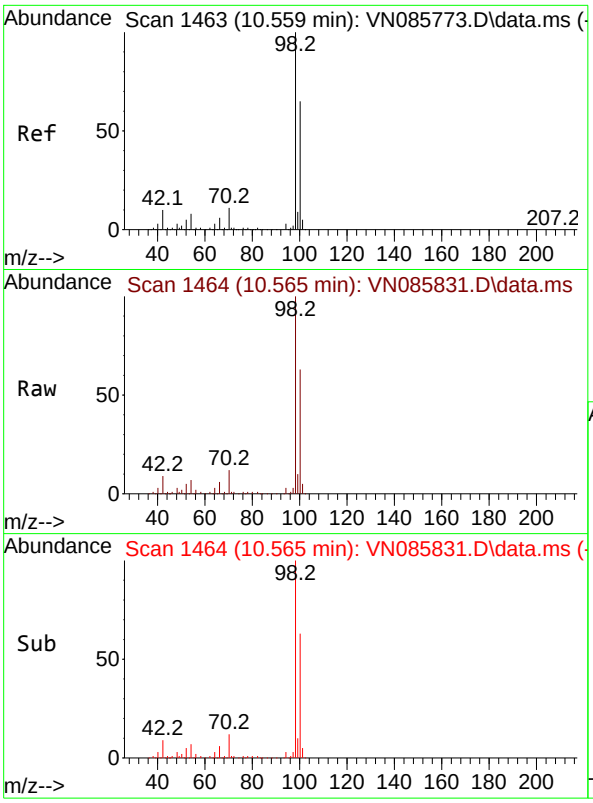


#35
Dibromofluoromethane
Concen: 54.942 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion:113 Resp: 149510

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.2	123.4
192	19.3	14.7	22.1



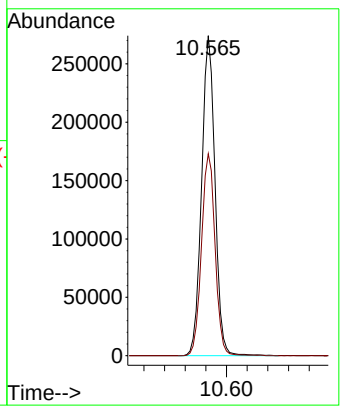


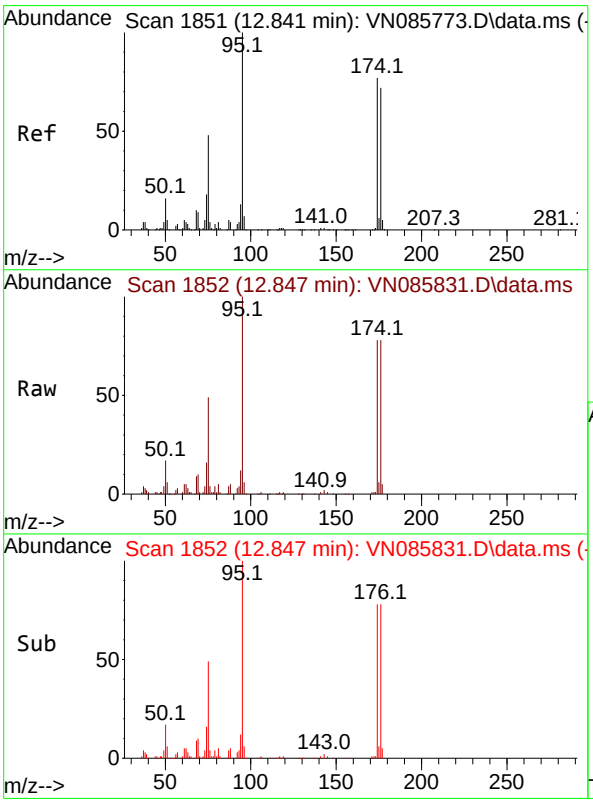
#50
Toluene-d8
Concen: 49.702 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Tgt Ion: 98 Resp: 492086

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.1	78.1

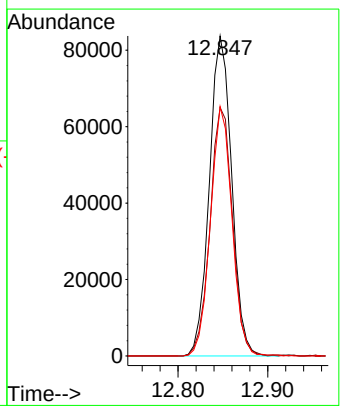


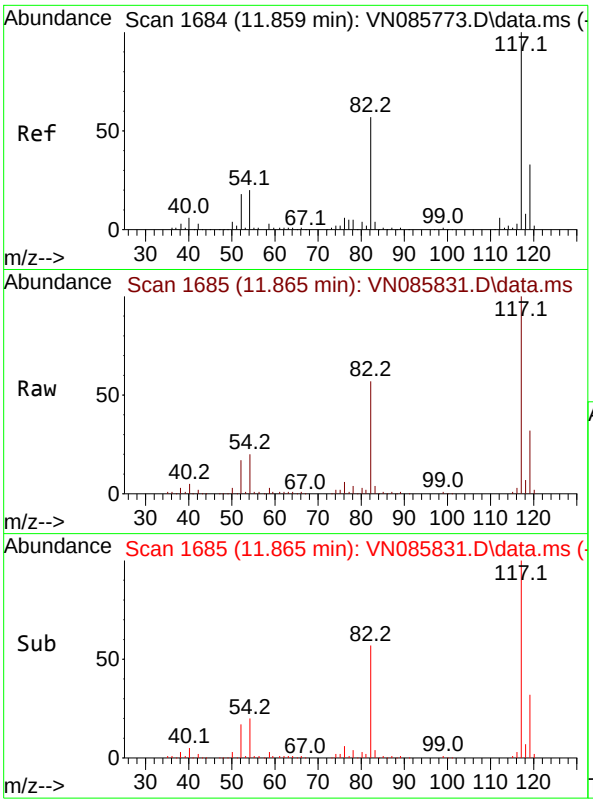


#62
4-Bromofluorobenzene
Concen: 44.314 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion: 95 Resp: 144556

Ion	Ratio	Lower	Upper
95	100		
174	78.3	0.0	152.4
176	75.3	0.0	146.6



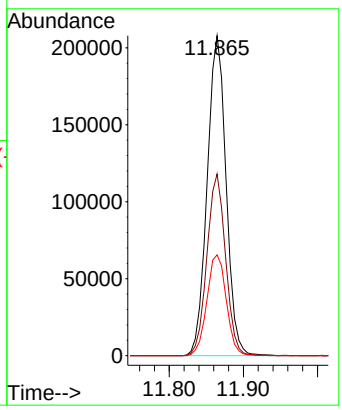


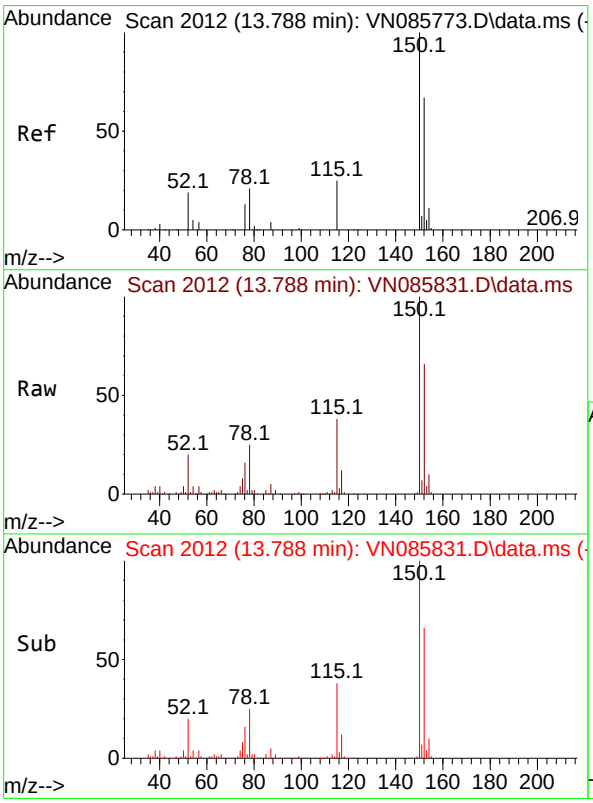
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Tgt Ion:117 Resp: 368217

Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.7	68.5
119	31.5	26.2	39.2

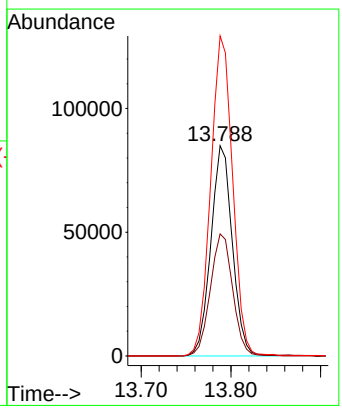




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion:152 Resp: 141296

Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.4	91.3
150	155.6	0.0	345.4



Sample Results: **VN085831.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085831.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1044	1056	1060	rBV	205136	471936	37.31%	7.207%
2	8.224	1060	1066	1080	rVB	302270	684714	54.13%	10.456%
3	8.577	1116	1126	1135	rBV	210858	472035	37.32%	7.208%
4	8.665	1135	1141	1146	rBV2	4446	12824	1.01%	0.196%
5	8.788	1154	1162	1178	rVB3	15910	63502	5.02%	0.970%
6	9.100	1205	1215	1227	rBV	475024	962861	76.12%	14.703%
7	10.565	1454	1464	1479	rBV	696413	1264982	100.00%	19.317%
8	11.865	1677	1685	1699	rBV	614373	1091818	86.31%	16.672%
9	12.847	1844	1852	1866	rBV	404746	692703	54.76%	10.578%
10	13.788	2005	2012	2023	rBV	491642	831252	65.71%	12.694%

Sum of corrected areas: 6548627

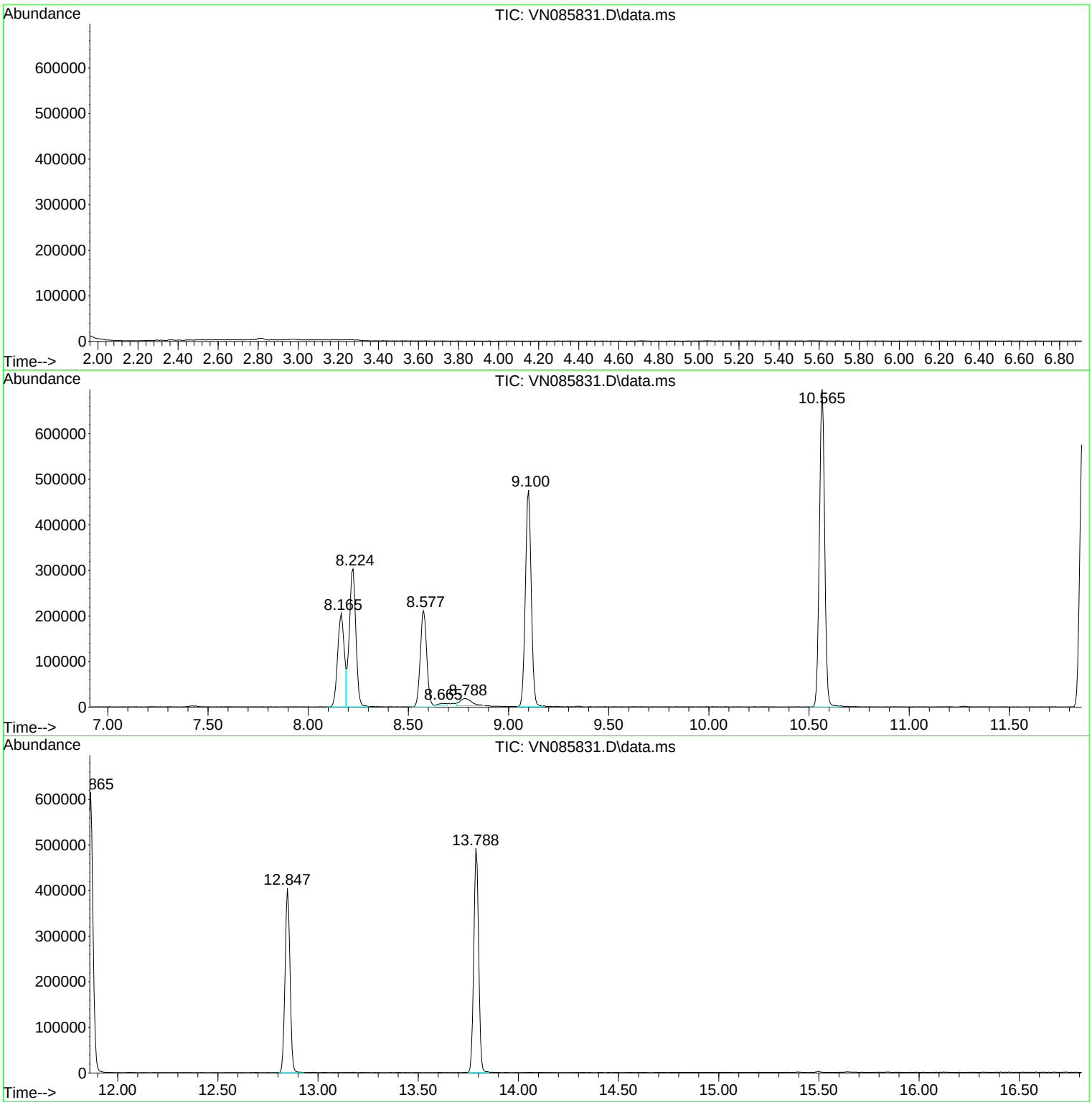
Sample Results: **VN085831.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN085831.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Time: Feb 25 23:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

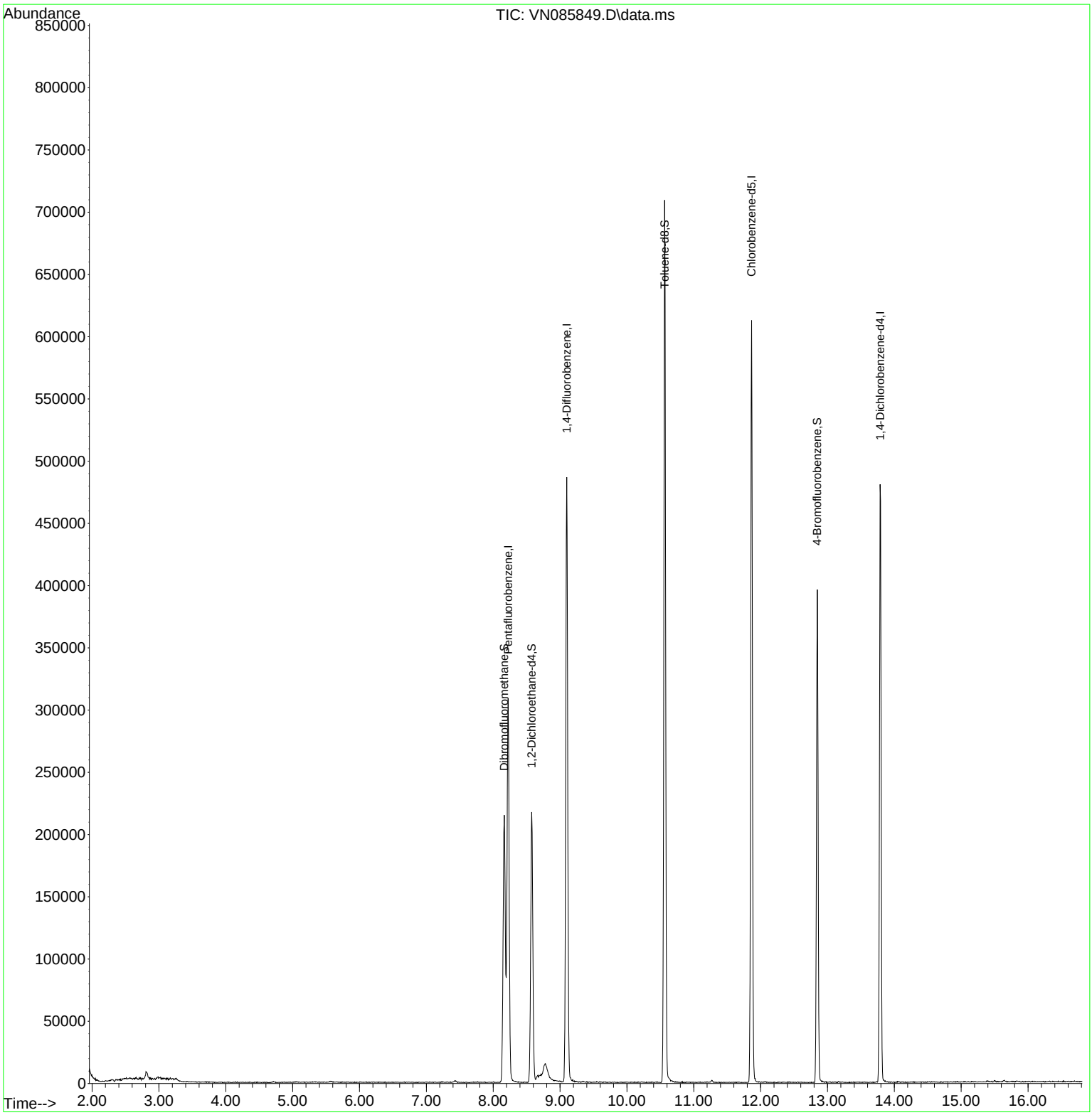
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	216938	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	423956	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	361345	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136612	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	174897	62.185	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 124.380%			
35) Dibromofluoromethane	8.165	113	154931	55.848	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.700%			
50) Toluene-d8	10.565	98	493684	48.912	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.820%			
62) 4-Bromofluorobenzene	12.847	95	139391	41.916	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 83.840%			
Target Compounds						Qvalue

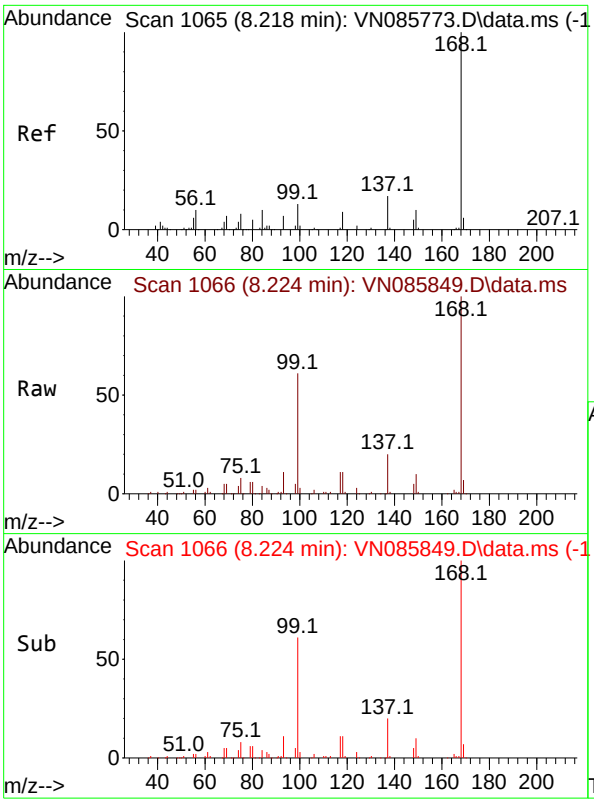
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Time: Feb 25 23:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



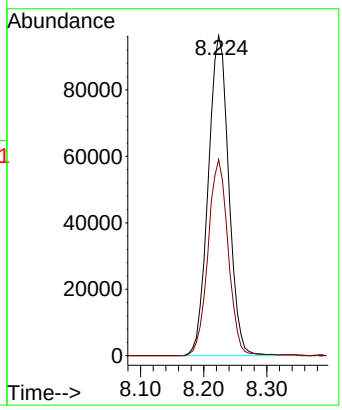


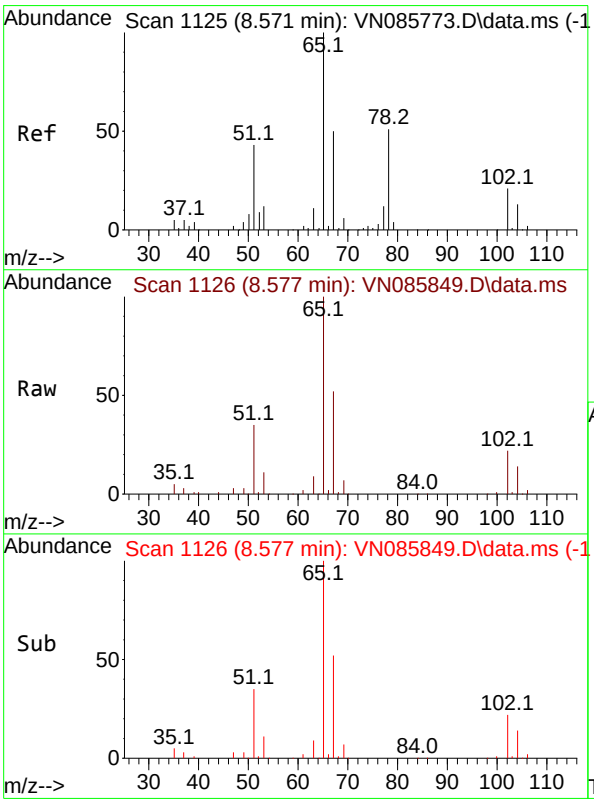
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Tgt Ion:168 Resp: 216938

Ion	Ratio	Lower	Upper
168	100		
99	61.3	47.9	71.9

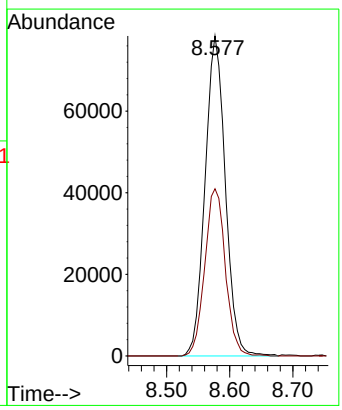


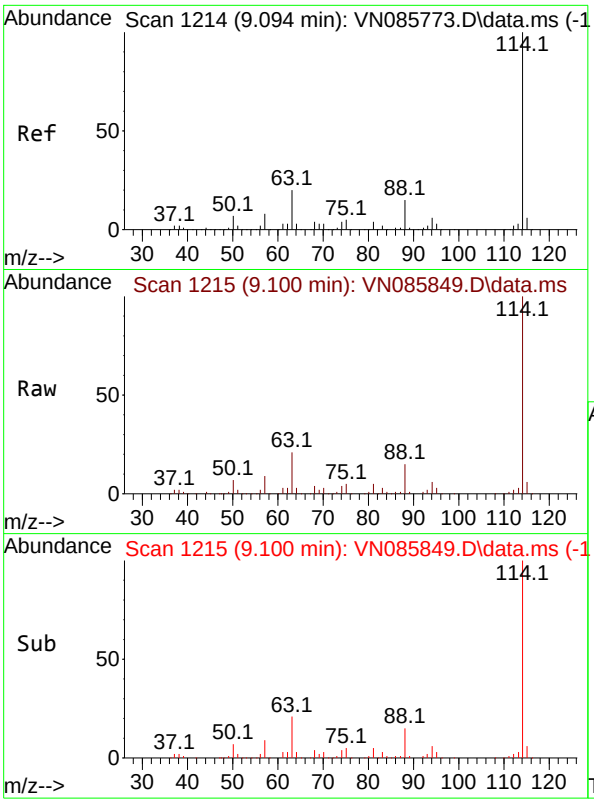


#33
1,2-Dichloroethane-d4
Concen: 62.185 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion: 65 Resp: 174897

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.2



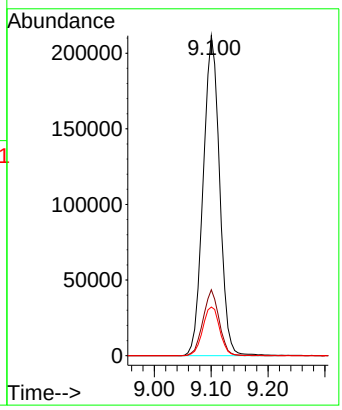


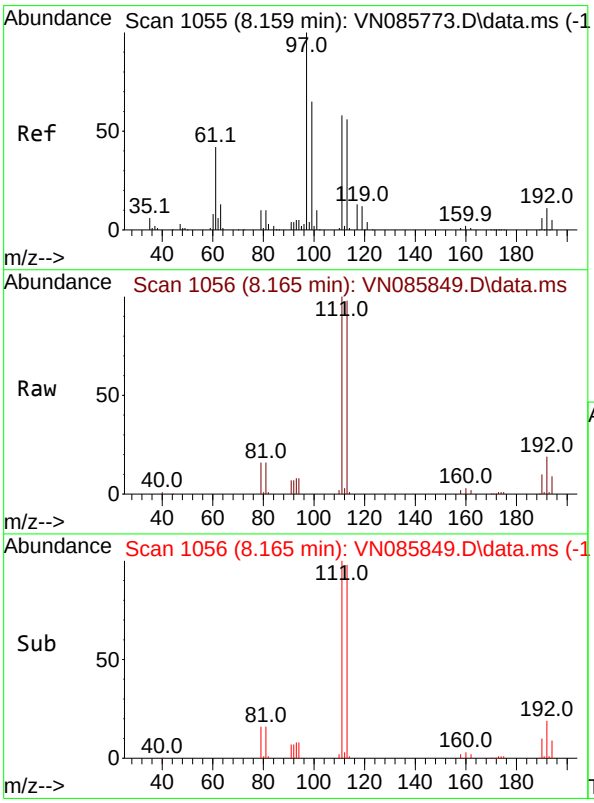
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Tgt Ion:114 Resp: 423956

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	39.2
88	15.2	0.0	30.0

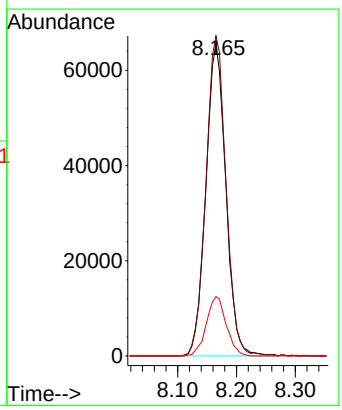


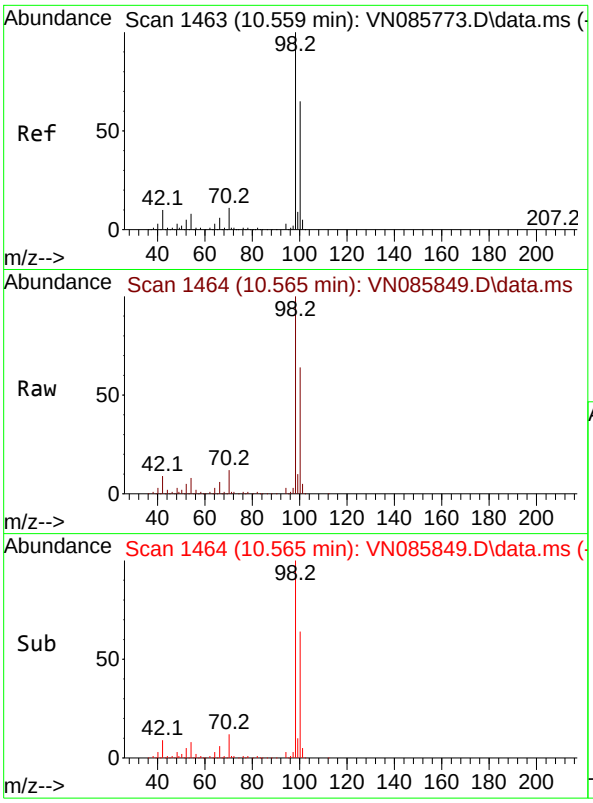


#35
Dibromofluoromethane
Concen: 55.848 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion:113 Resp: 154931

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.2	123.4
192	18.9	14.7	22.1



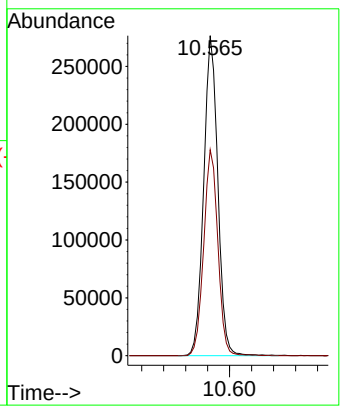


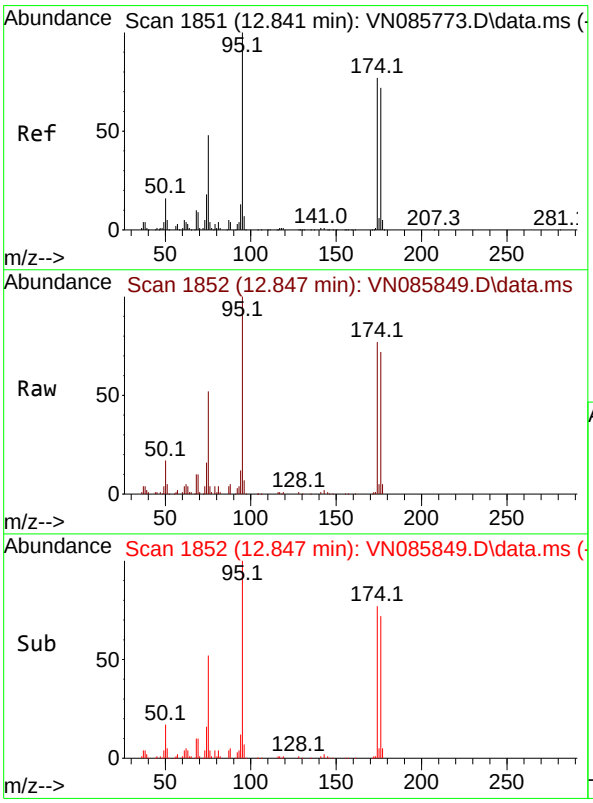
#50
Toluene-d8
Concen: 48.912 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Tgt Ion: 98 Resp: 493684

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.1	78.1

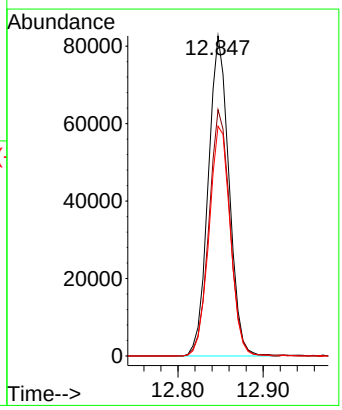


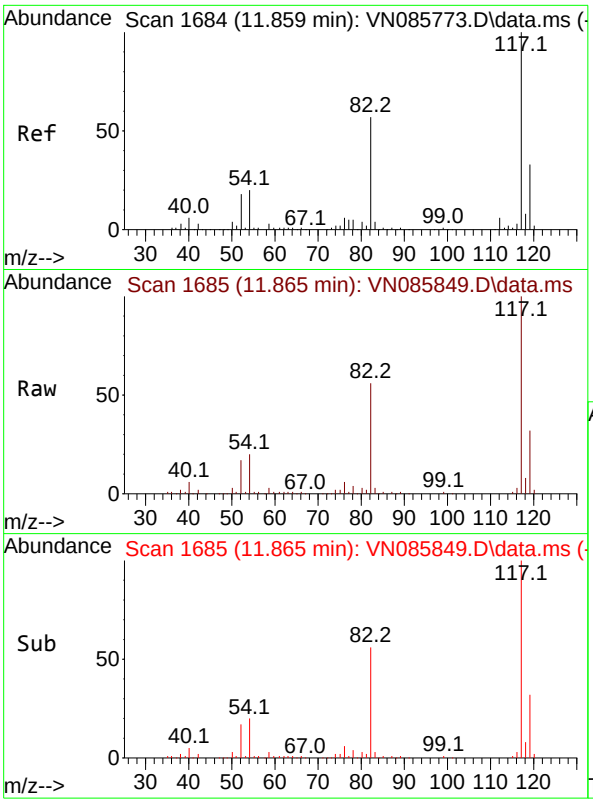


#62
4-Bromofluorobenzene
Concen: 41.916 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion: 95 Resp: 139391

Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	152.4
176	73.5	0.0	146.6



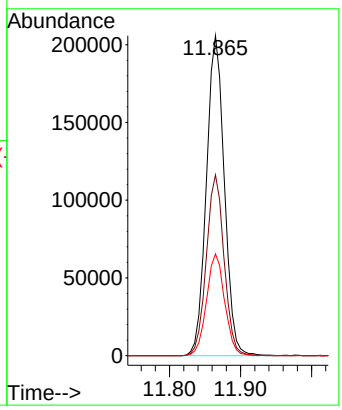


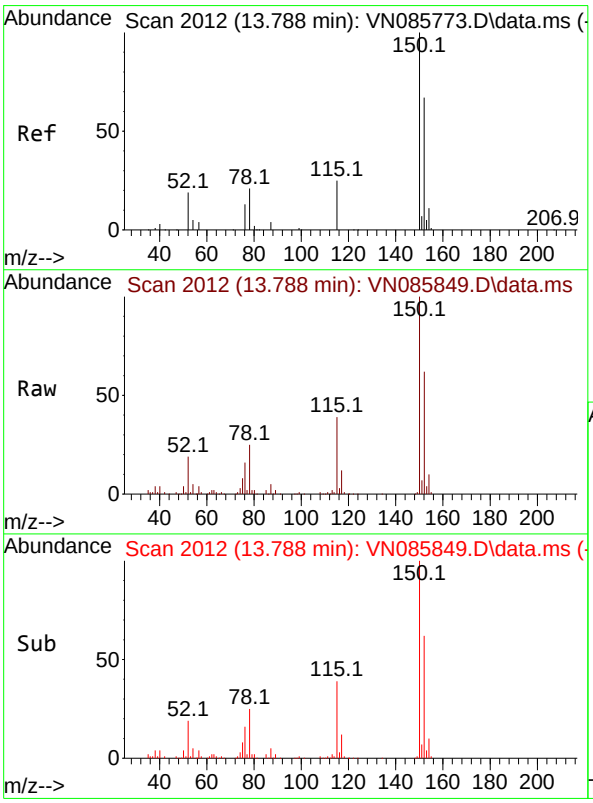
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Tgt Ion:117 Resp: 361345

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.7	68.5
119	31.8	26.2	39.2

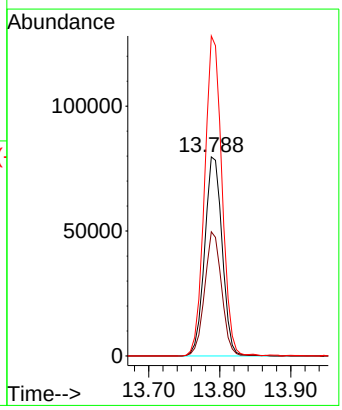




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion:152 Resp: 136612

Ion	Ratio	Lower	Upper
152	100		
115	60.5	30.4	91.3
150	159.2	0.0	345.4



Sample Results: **VN085849.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085849.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.806	139	145	154	rVB5	6141	14877	1.17%	0.228%
2	8.165	1045	1056	1061	rBV	214635	515100	40.40%	7.892%
3	8.224	1061	1066	1077	rVB	307449	659549	51.73%	10.105%
4	8.577	1117	1126	1135	rBV	217088	483449	37.92%	7.407%
5	8.777	1153	1160	1172	rVB2	11409	43711	3.43%	0.670%
6	9.100	1206	1215	1224	rBV	485604	978102	76.71%	14.985%
7	10.565	1454	1464	1479	rBV	708942	1275050	100.00%	19.534%
8	11.865	1676	1685	1699	rBV	612088	1074090	84.24%	16.456%
9	12.847	1844	1852	1863	rBV	396038	670906	52.62%	10.279%
10	13.788	2005	2012	2020	rBV	480400	812359	63.71%	12.446%

Sum of corrected areas: 6527193

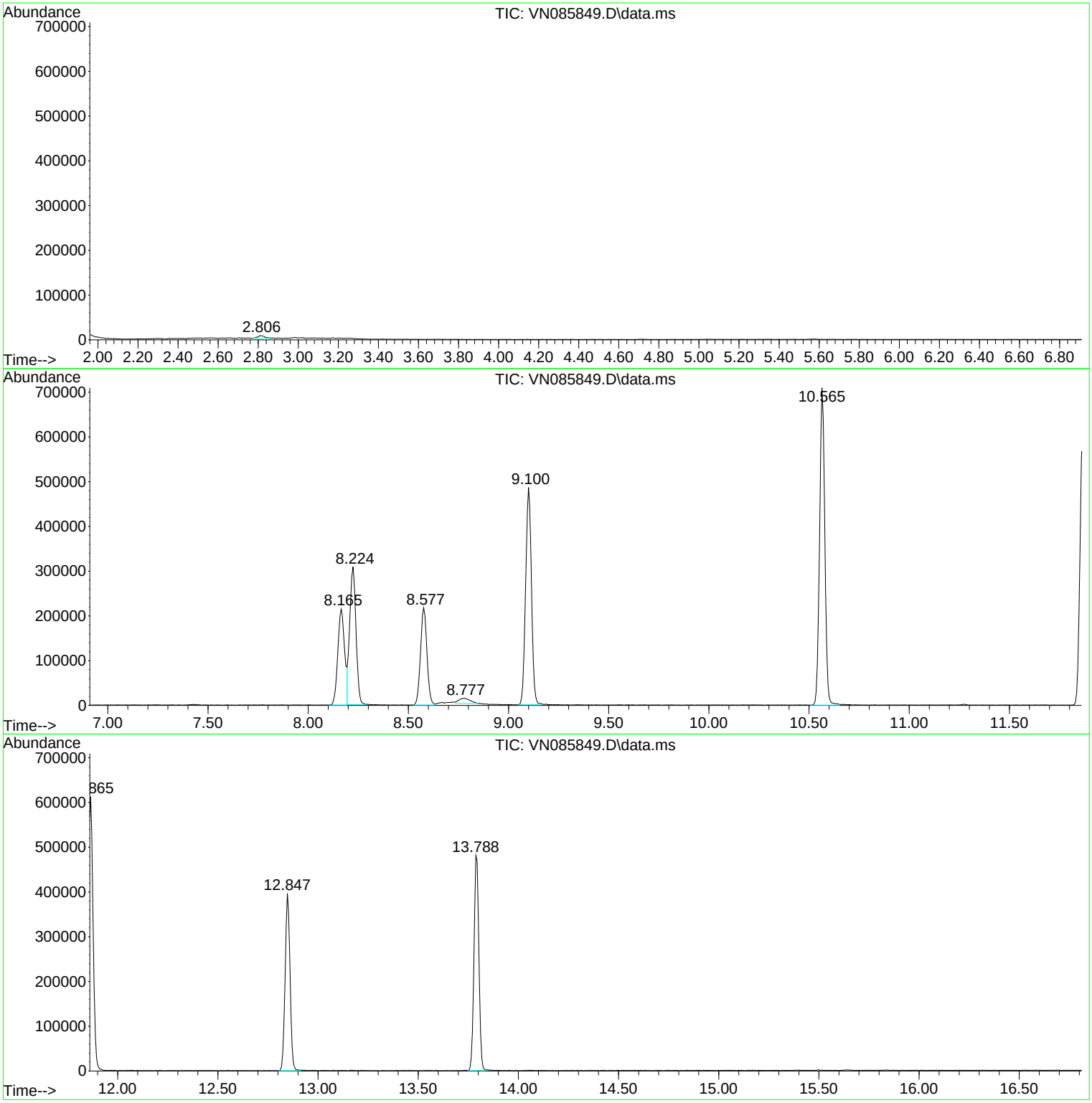
Sample Results: **VN085849.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.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\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Time: Feb 27 00:34:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	251129	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	483695	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	470141	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	192201	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151228	53.084	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.160%			
35) Dibromofluoromethane	7.634	113	156988	49.505	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.020%			
50) Toluene-d8	10.109	98	601618	49.089	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.180%			
62) 4-Bromofluorobenzene	12.407	95	206622	50.096	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.200%			

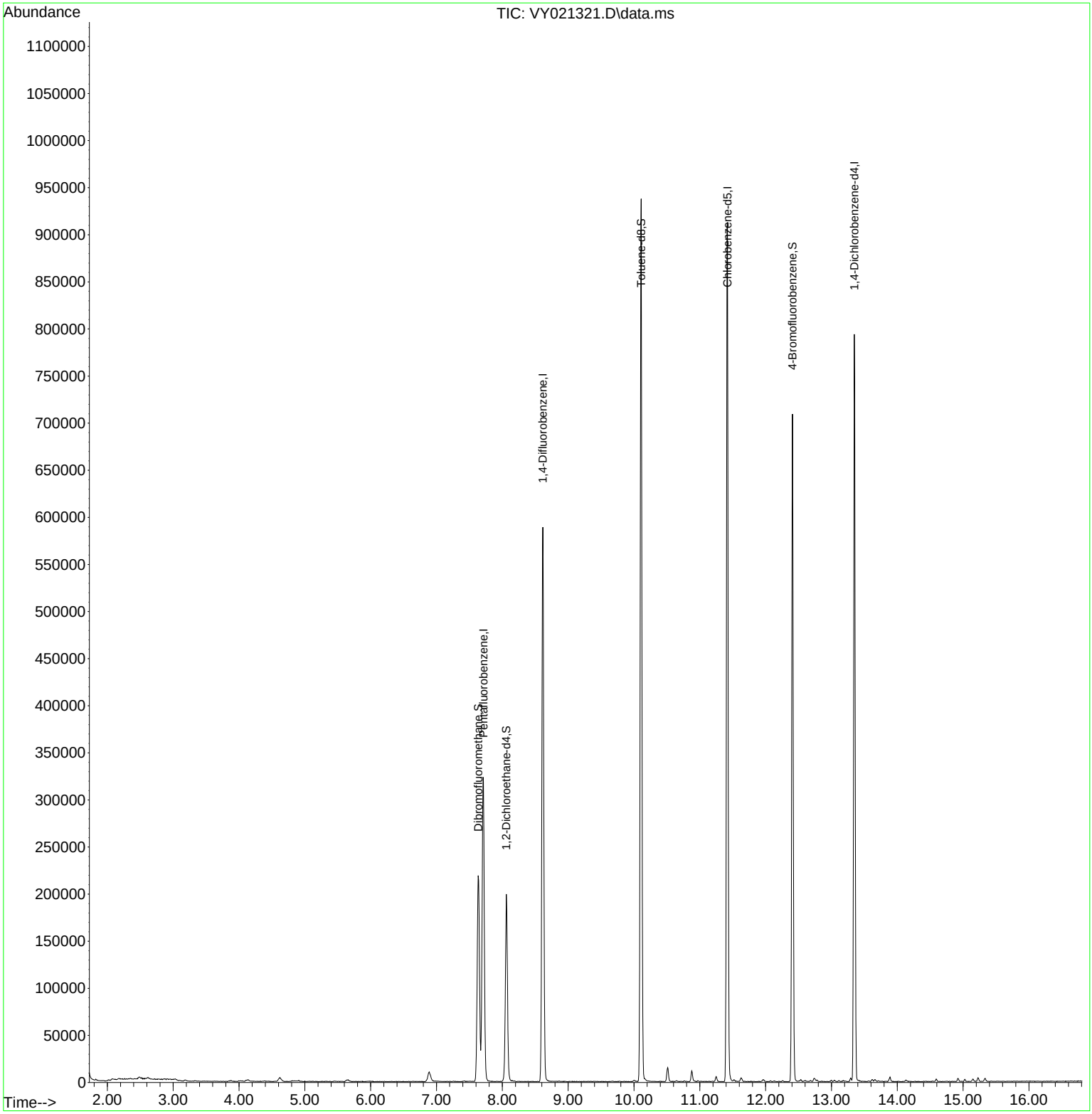
Target Compounds Qvalue

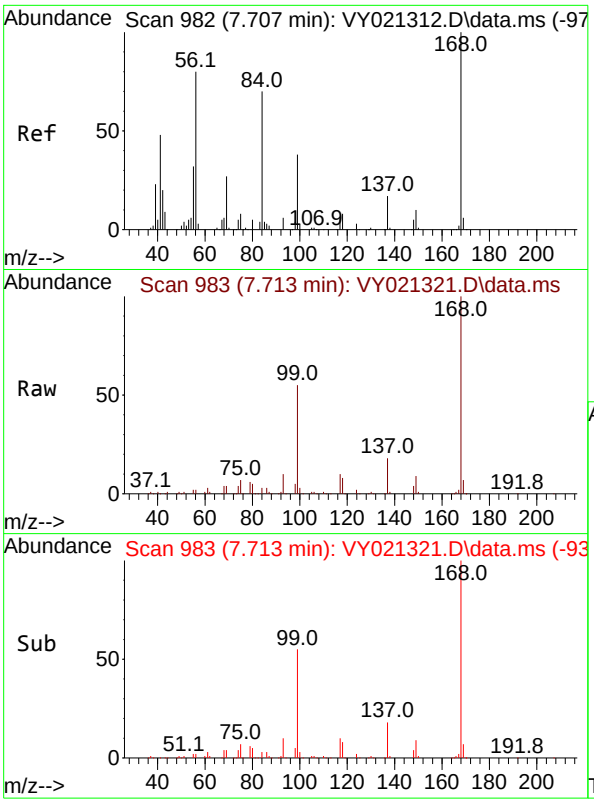
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Time: Feb 27 00:34:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



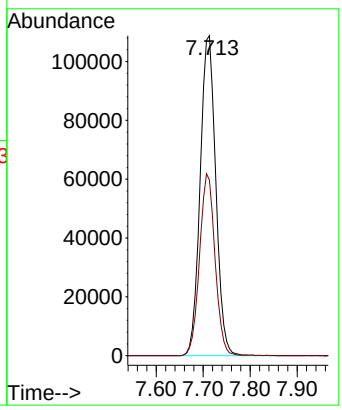


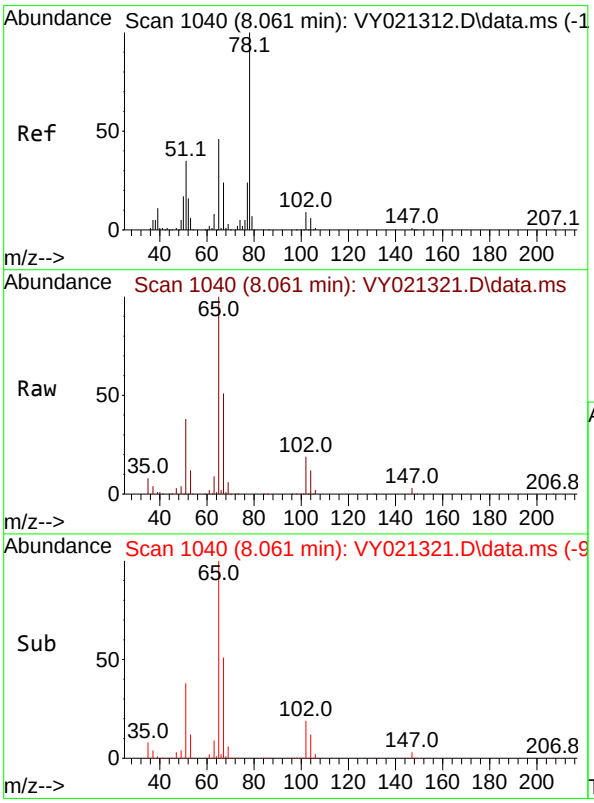
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Tgt Ion:168 Resp: 251129

Ion	Ratio	Lower	Upper
168	100		
99	54.9	47.1	70.7

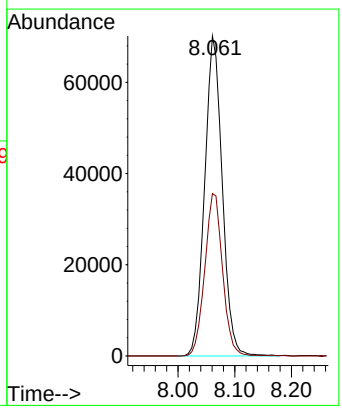


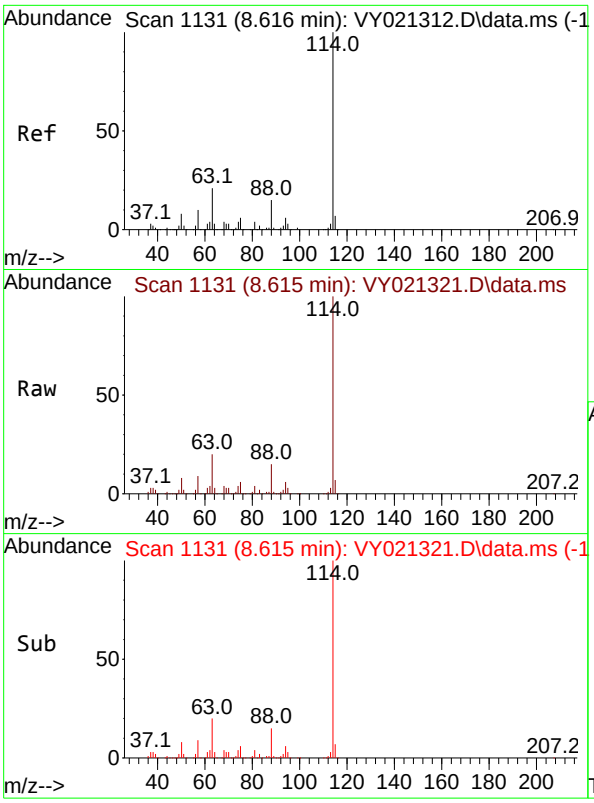


#33
1,2-Dichloroethane-d4
Concen: 53.084 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Tgt Ion: 65 Resp: 151228

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	103.6



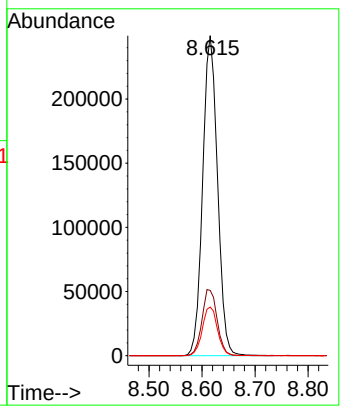


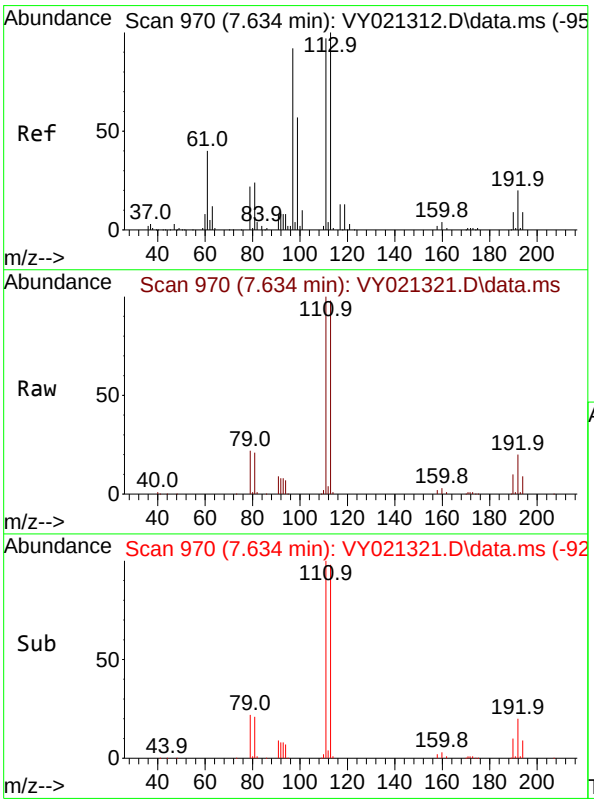
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Tgt Ion:114 Resp: 483695

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.2
88	15.2	0.0	29.8

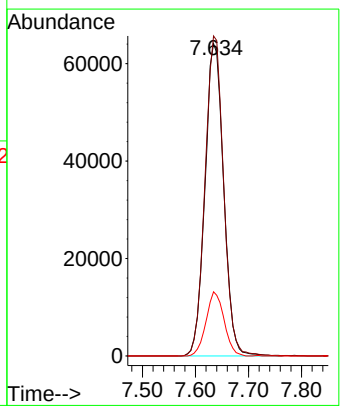


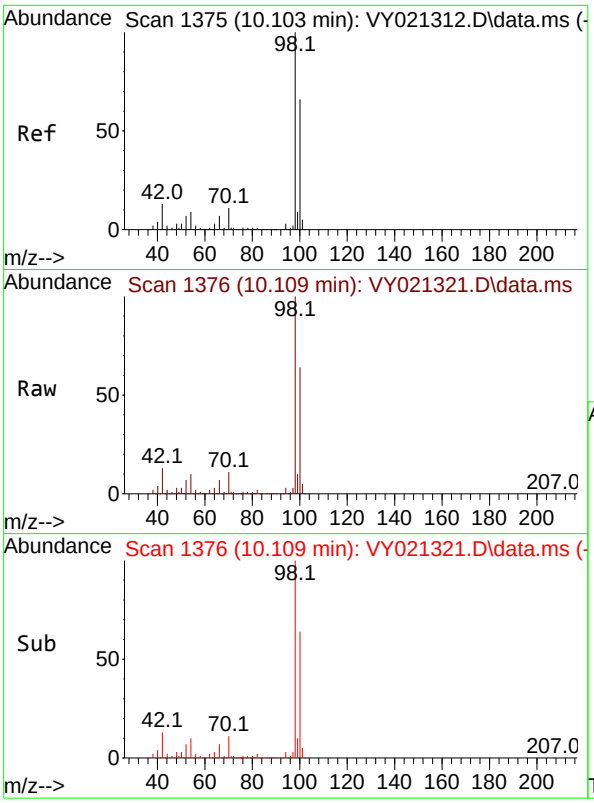


#35
Dibromofluoromethane
Concen: 49.505 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Tgt Ion:113 Resp: 156988

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.0	121.6
192	19.8	15.8	23.8



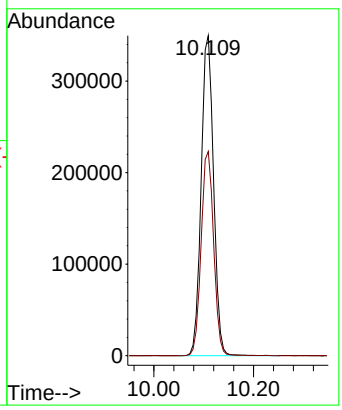


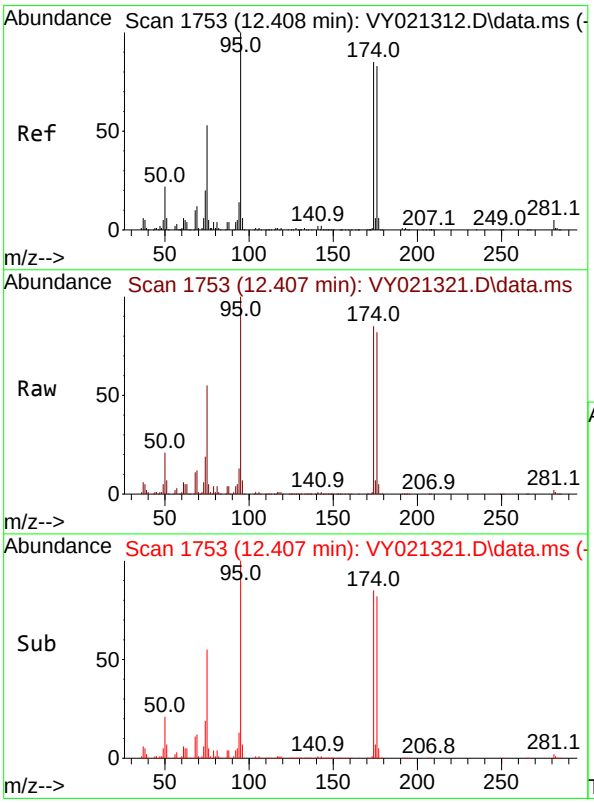
#50
Toluene-d8
Concen: 49.089 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Tgt Ion: 98 Resp: 601618

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.4	78.6

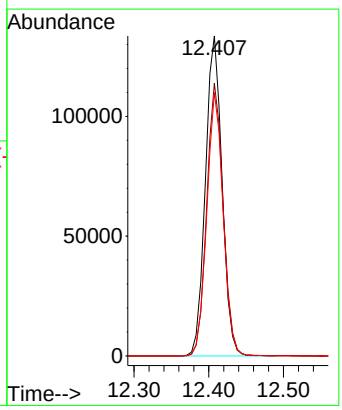


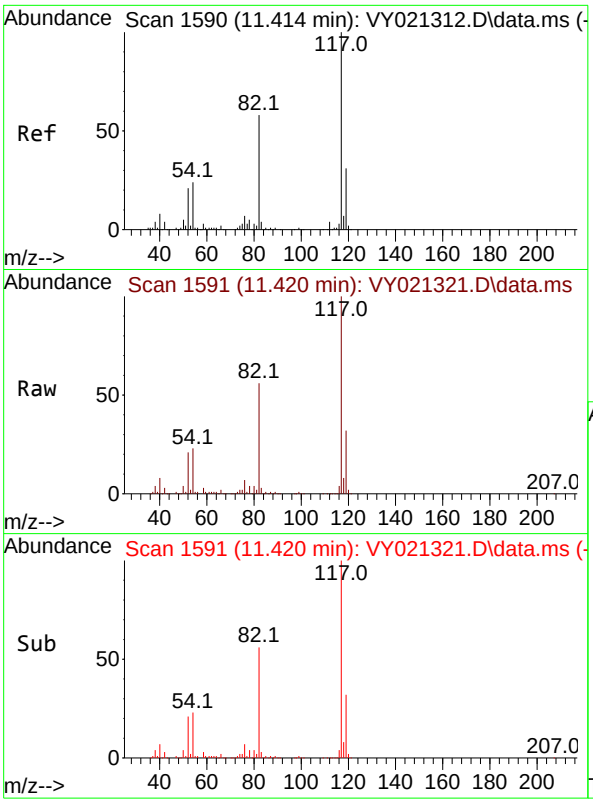


#62
4-Bromofluorobenzene
Concen: 50.096 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Tgt Ion: 95 Resp: 206622

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	168.0
176	80.7	0.0	162.6



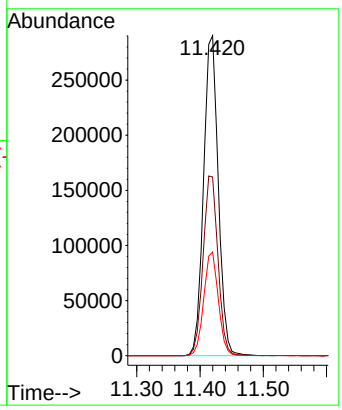


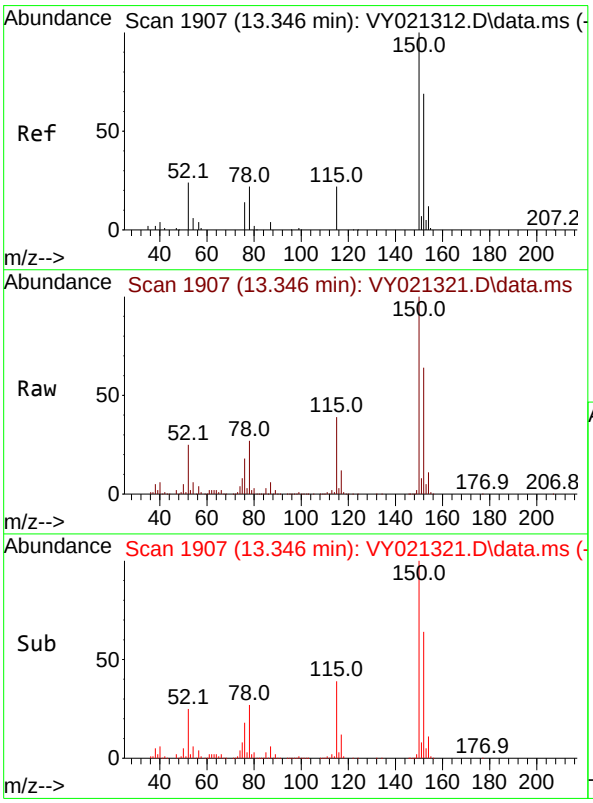
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Tgt Ion:117 Resp: 470141

Ion	Ratio	Lower	Upper
117	100		
82	55.8	46.2	69.4
119	32.4	24.9	37.3

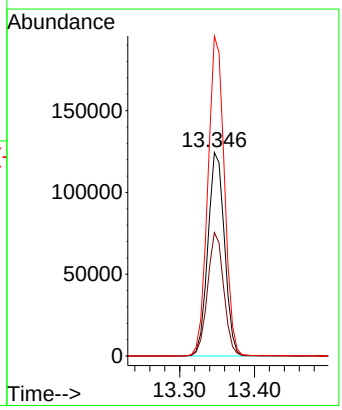




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Tgt Ion:152 Resp: 192201

Ion	Ratio	Lower	Upper
152	100		
115	59.0	29.3	88.0
150	156.2	0.0	347.4



Sample Results: **VY021321.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

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\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021321.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	837	848	858	rBV	10339	32583	2.00%	0.388%
2	7.634	959	970	976	rBV	218621	526717	32.34%	6.272%
3	7.707	976	982	995	rVB	322770	750354	46.06%	8.935%
4	8.061	1027	1040	1053	rBV	199017	436262	26.78%	5.195%
5	8.615	1121	1131	1146	rBV	588653	1157316	71.05%	13.781%
6	10.109	1368	1376	1393	rBV	937010	1628919	100.00%	19.397%
7	10.511	1434	1442	1451	rVB2	14814	27683	1.70%	0.330%
8	10.877	1496	1502	1512	rVB	11354	19861	1.22%	0.237%
9	11.420	1583	1591	1603	rBV	912084	1502567	92.24%	17.893%
10	12.407	1746	1753	1765	rBV	708516	1114080	68.39%	13.266%
11	13.346	1901	1907	1918	rVB	792294	1201379	73.75%	14.306%

Sum of corrected areas: 8397721

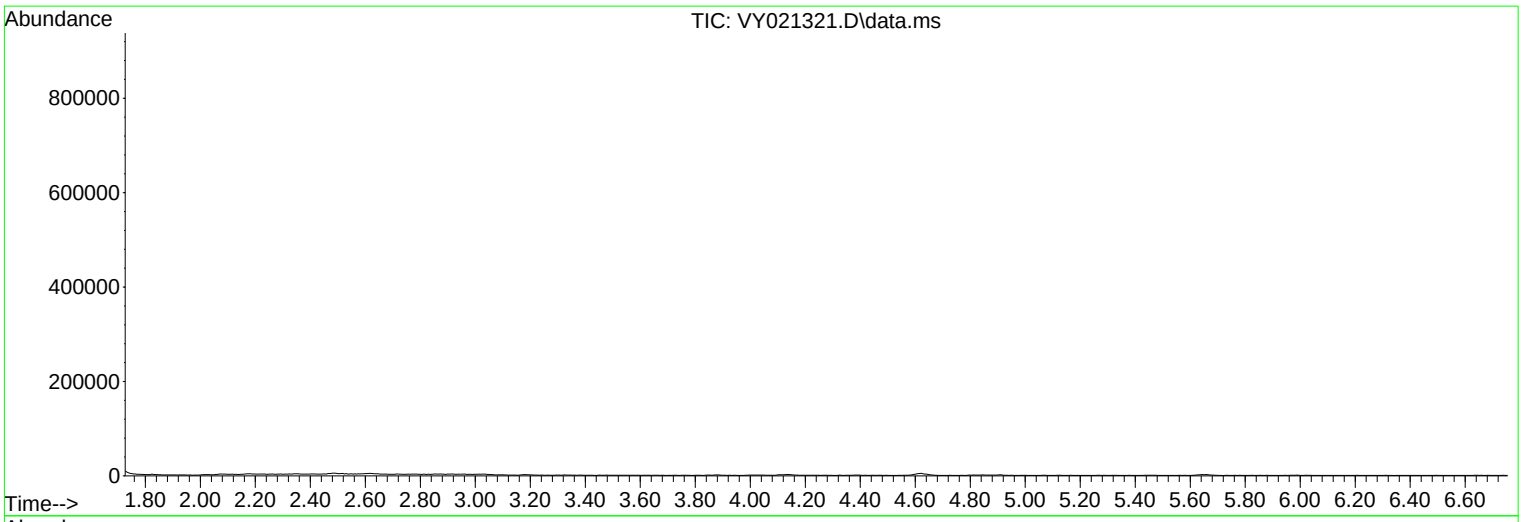
Sample Results: **VY021321.D**

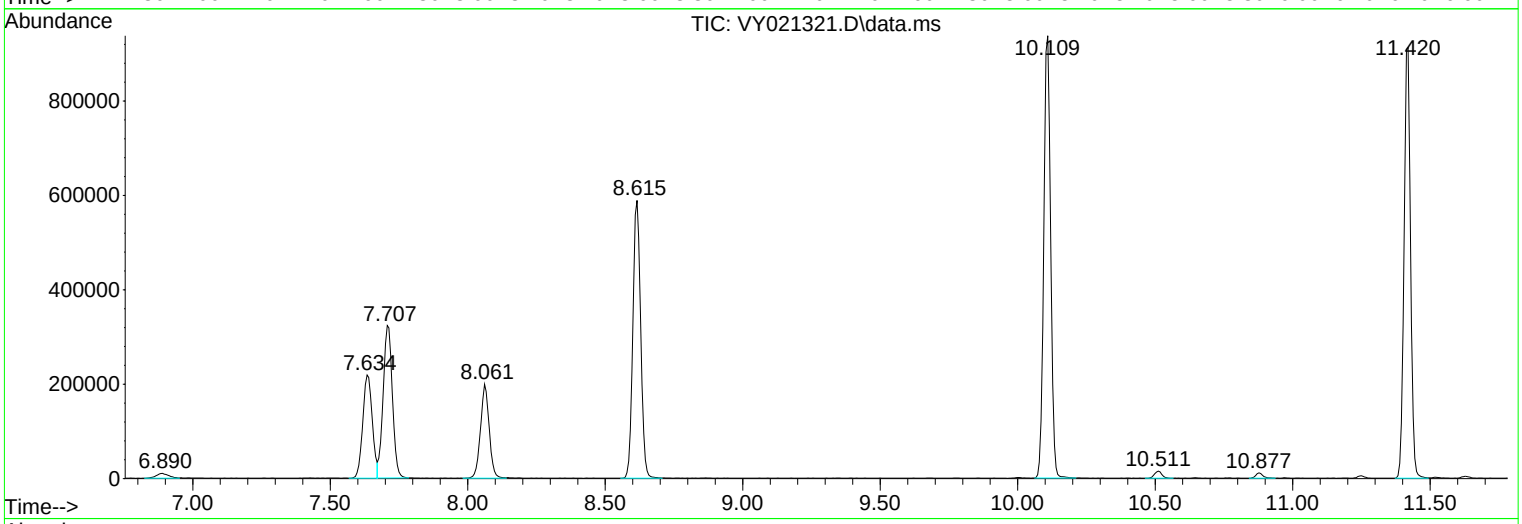
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

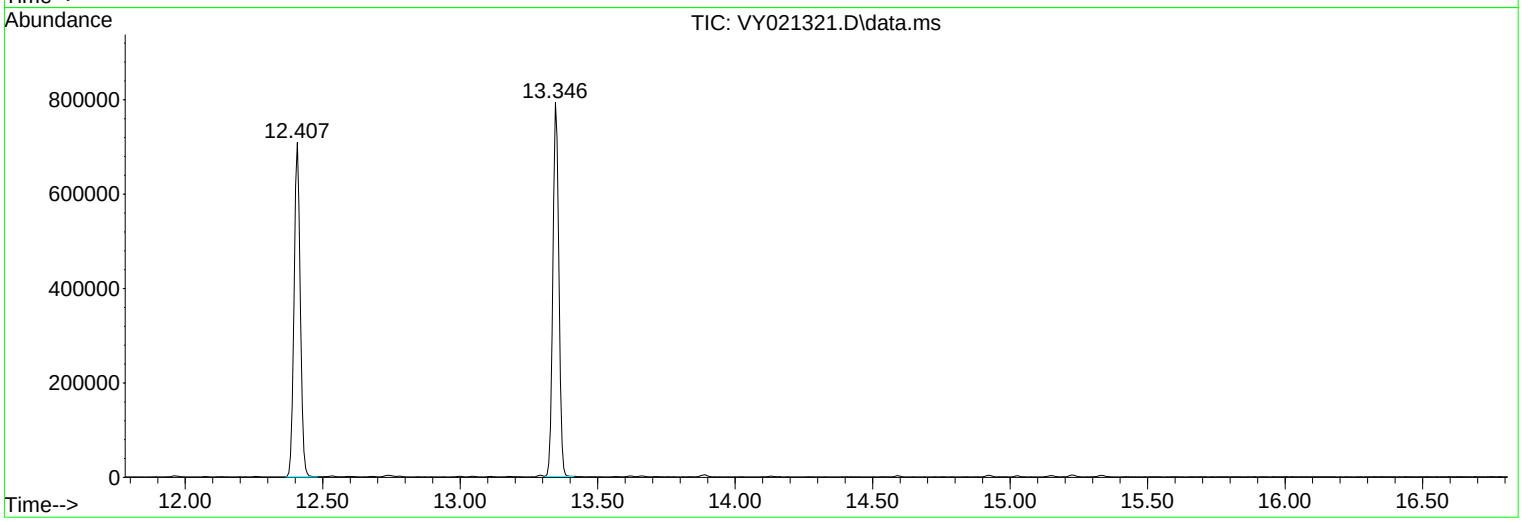
Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Time: Feb 28 00:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	140233	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	264026	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	255103	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	107368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	94225	59.230	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.460%			
35) Dibromofluoromethane	7.634	113	90944	52.539	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.080%			
50) Toluene-d8	10.109	98	322284	48.176	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.360%			
62) 4-Bromofluorobenzene	12.407	95	111519	49.533	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.060%			

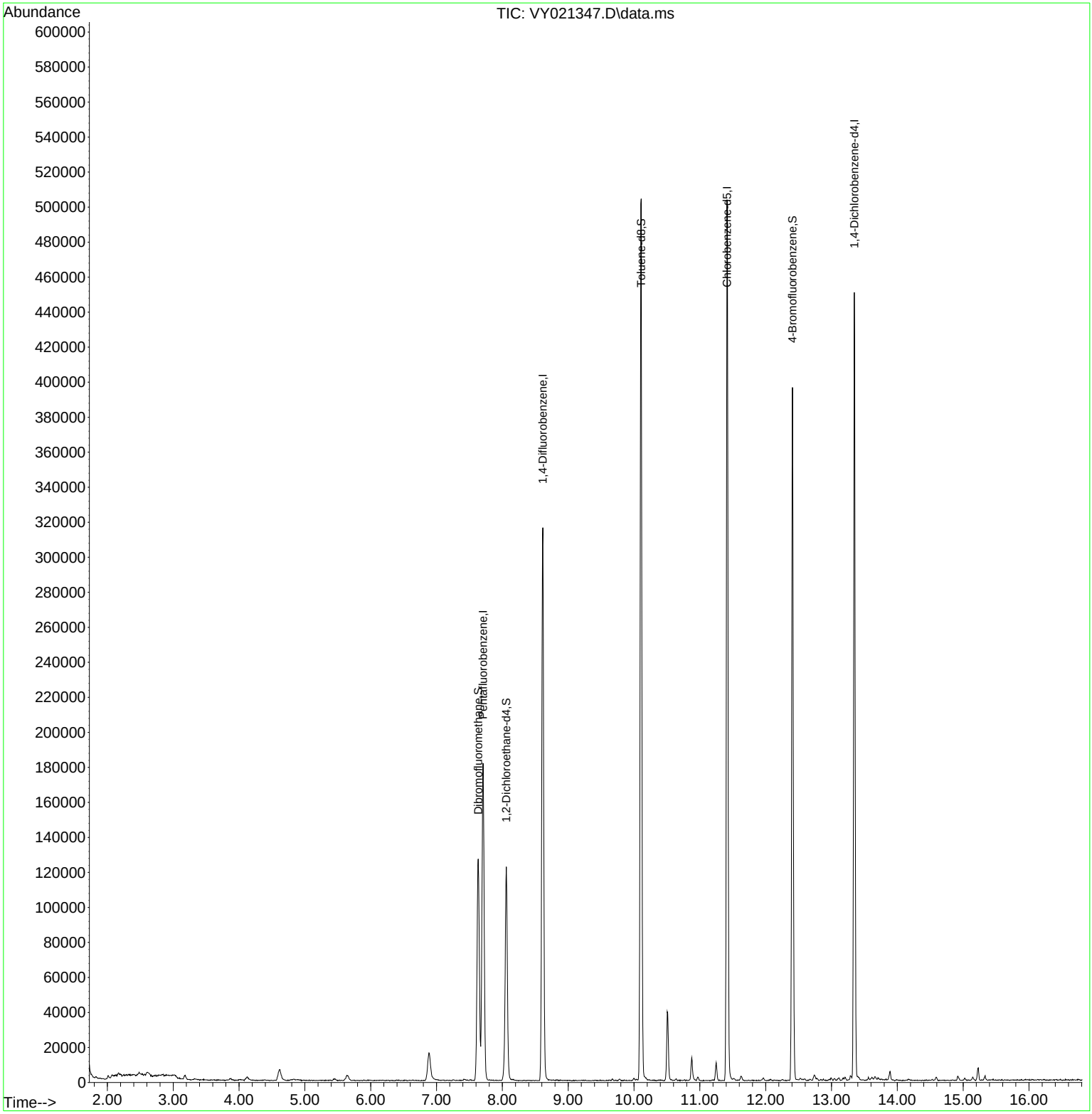
Target Compounds Qvalue

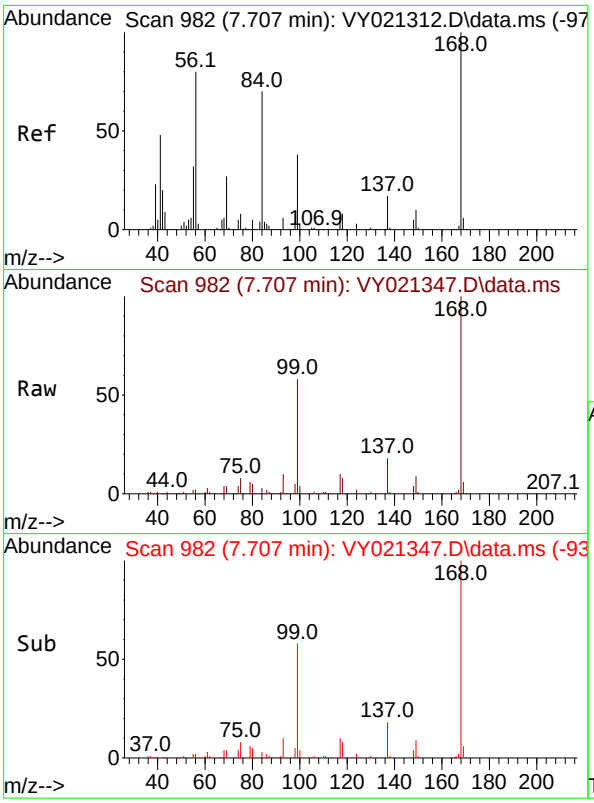
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Time: Feb 28 00:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



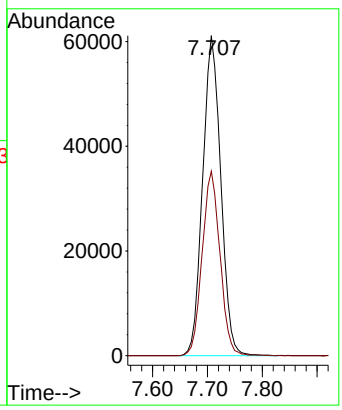


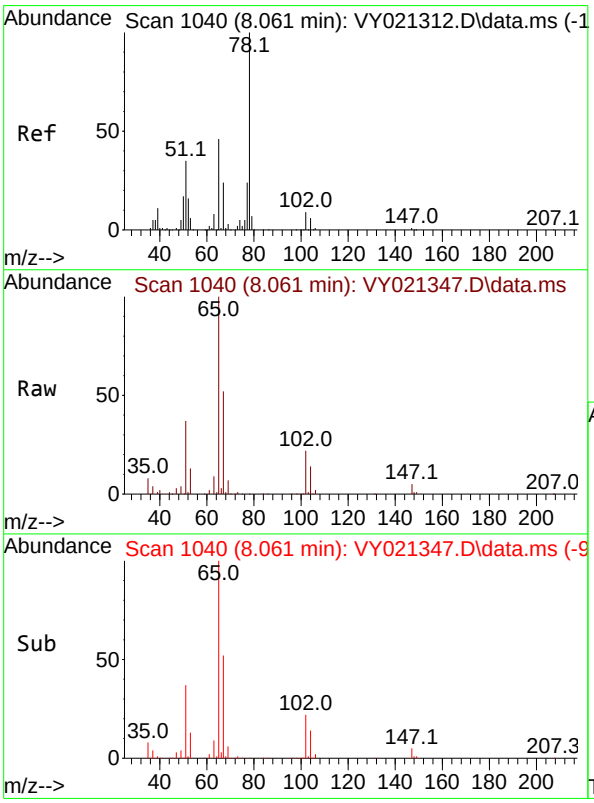
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:168 Resp: 140233

Ion	Ratio	Lower	Upper
168	100		
99	57.6	47.1	70.7

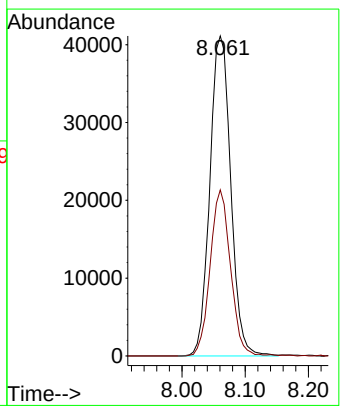


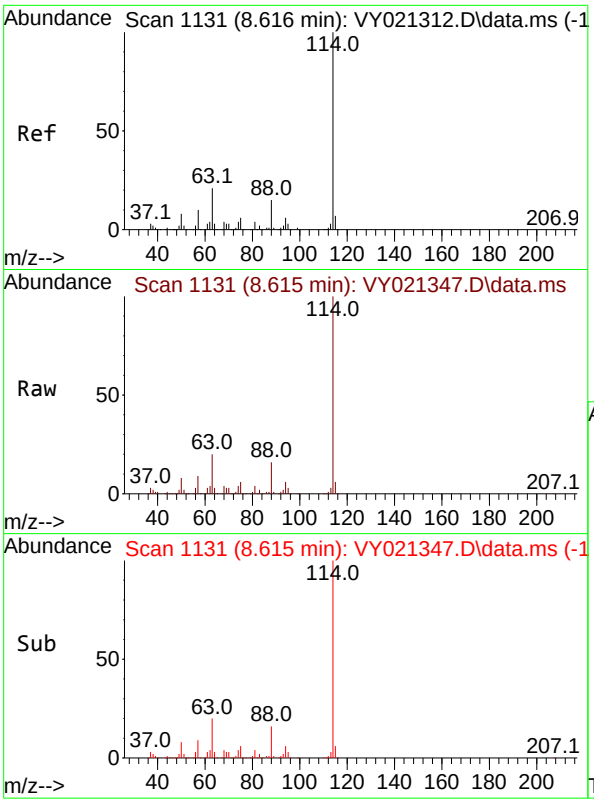


#33
1,2-Dichloroethane-d4
Concen: 59.230 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 65 Resp: 94225

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	103.6



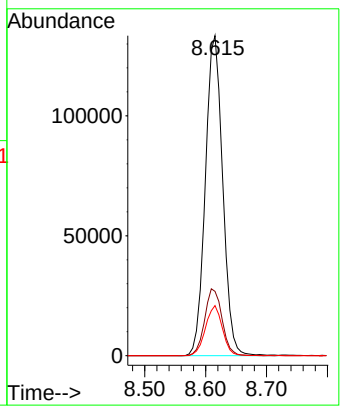


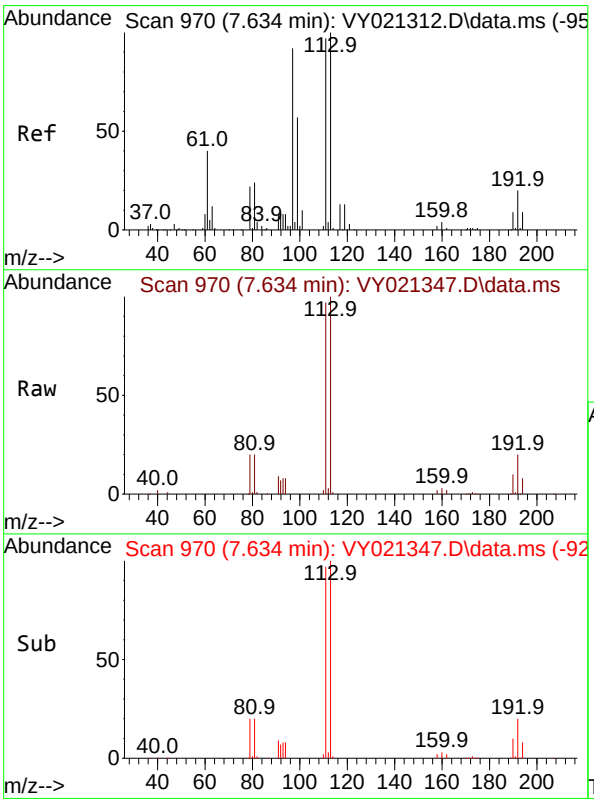
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:114 Resp: 264026

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.2
88	15.7	0.0	29.8

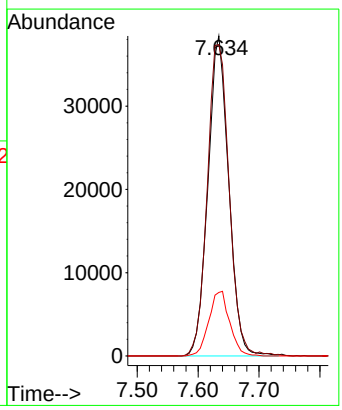


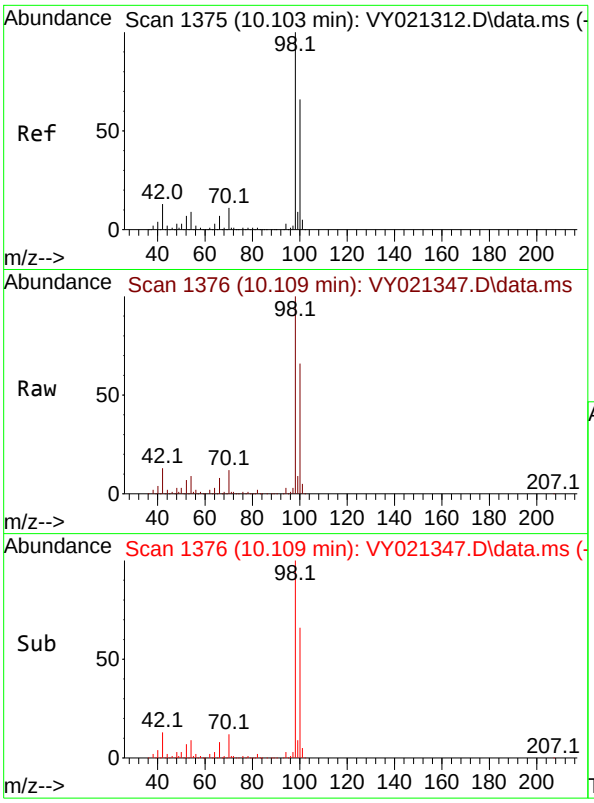


#35
Dibromofluoromethane
Concen: 52.539 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion:113 Resp: 90944

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.0	121.6
192	20.3	15.8	23.8



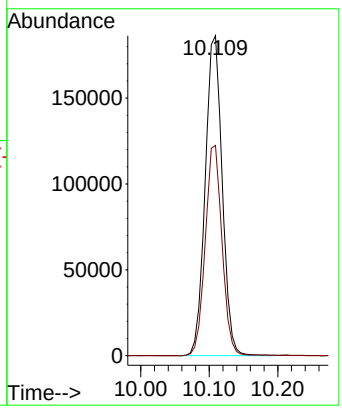


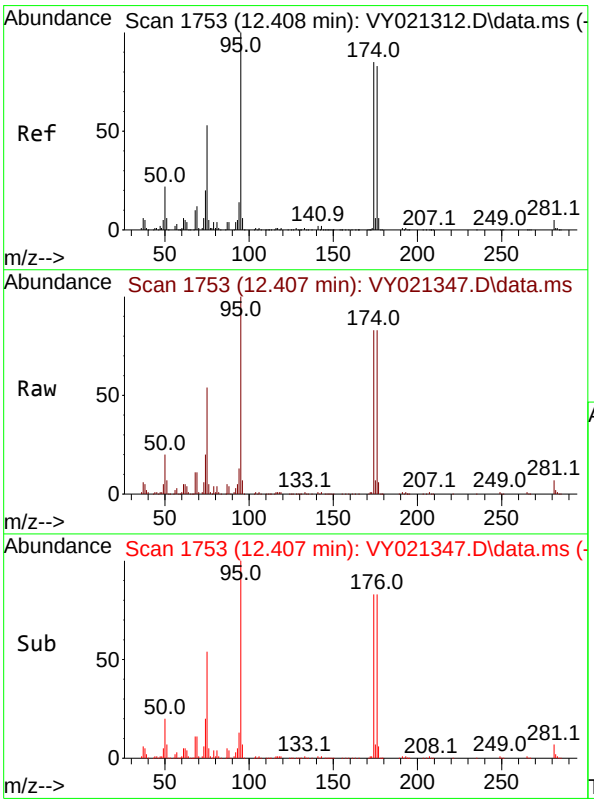
#50
Toluene-d8
Concen: 48.176 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion: 98 Resp: 322284

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.4	78.6

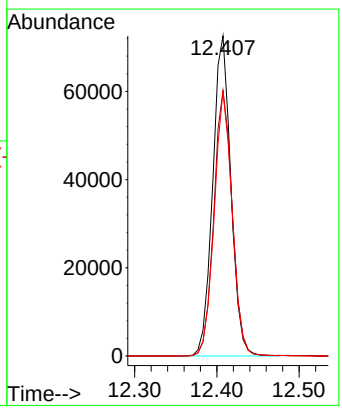


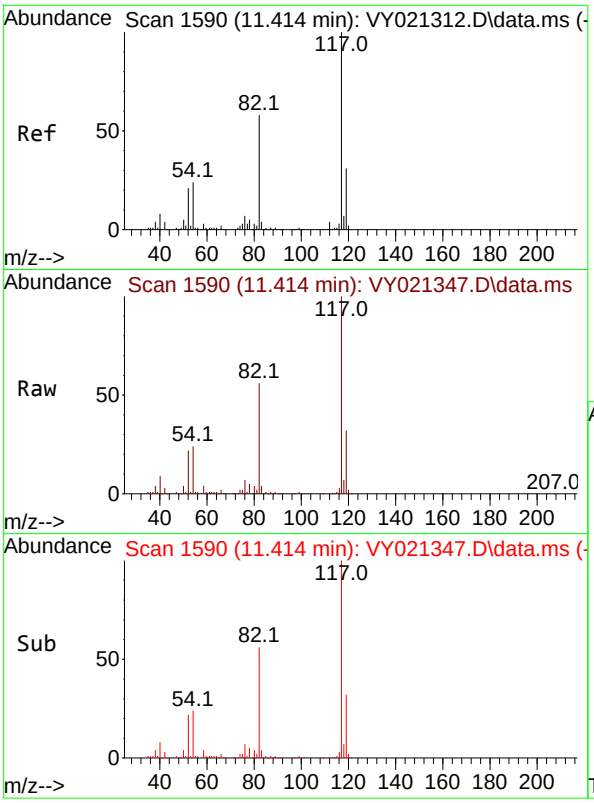


#62
4-Bromofluorobenzene
Concen: 49.533 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 95 Resp: 111519

Ion	Ratio	Lower	Upper
95	100		
174	83.8	0.0	168.0
176	81.7	0.0	162.6



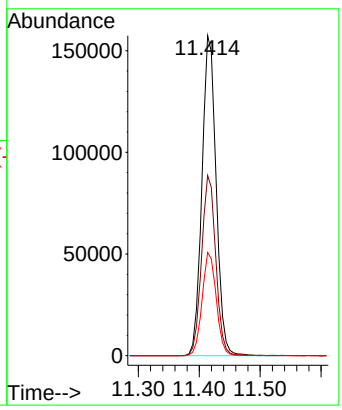


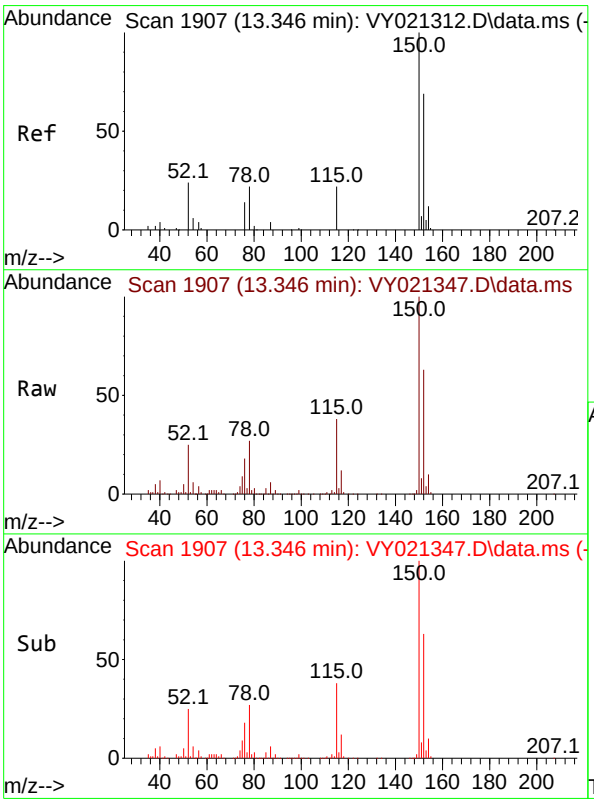
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:117 Resp: 255103

Ion	Ratio	Lower	Upper
117	100		
82	56.3	46.2	69.4
119	32.3	24.9	37.3

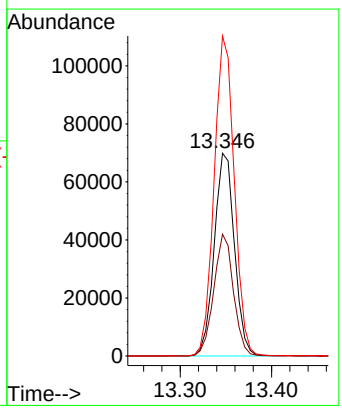




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion:152 Resp: 107368

Ion	Ratio	Lower	Upper
152	100		
115	58.5	29.3	88.0
150	157.4	0.0	347.4



Sample Results: **VY021347.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

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\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021347.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	467	475	492	rVB2	6284	21235	2.42%	0.437%
2	5.640	632	643	655	rBV5	3017	9750	1.11%	0.201%
3	6.884	837	847	865	rBV	15930	53856	6.14%	1.109%
4	7.634	960	970	976	rBV2	126557	309026	35.24%	6.363%
5	7.707	976	982	996	rVB	181083	418824	47.76%	8.623%
6	8.061	1027	1040	1051	rBV	122099	283283	32.30%	5.833%
7	8.615	1122	1131	1145	rBV	315845	630977	71.95%	12.992%
8	10.109	1368	1376	1392	rVB	503363	876938	100.00%	18.056%
9	10.505	1434	1441	1450	rBV	39488	72341	8.25%	1.489%
10	10.877	1492	1502	1510	rBV	13045	22855	2.61%	0.471%
11	11.249	1558	1563	1570	rVB	10227	16372	1.87%	0.337%
12	11.414	1583	1590	1603	rBV	503205	815091	92.95%	16.782%
13	12.407	1746	1753	1762	rBV2	395816	641394	73.14%	13.206%
14	13.346	1901	1907	1915	rBV	448635	672738	76.71%	13.851%
15	15.230	2210	2216	2220	rBV3	7340	12145	1.38%	0.250%

Sum of corrected areas: 4856825

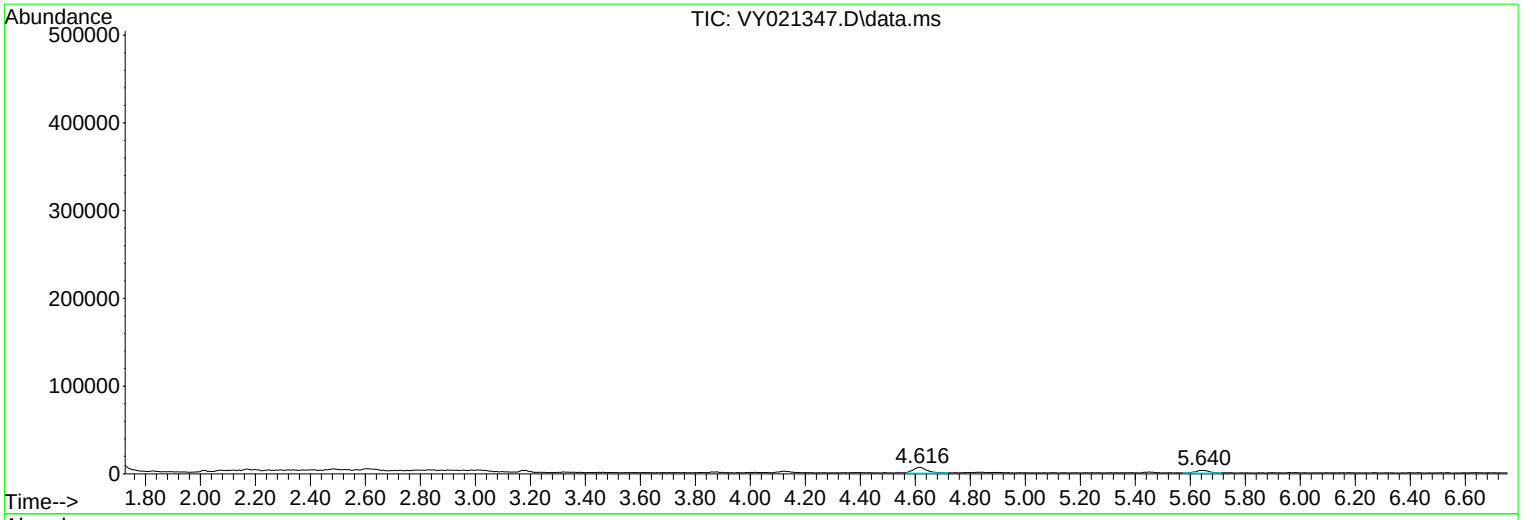
Sample Results: **VY021347.D**

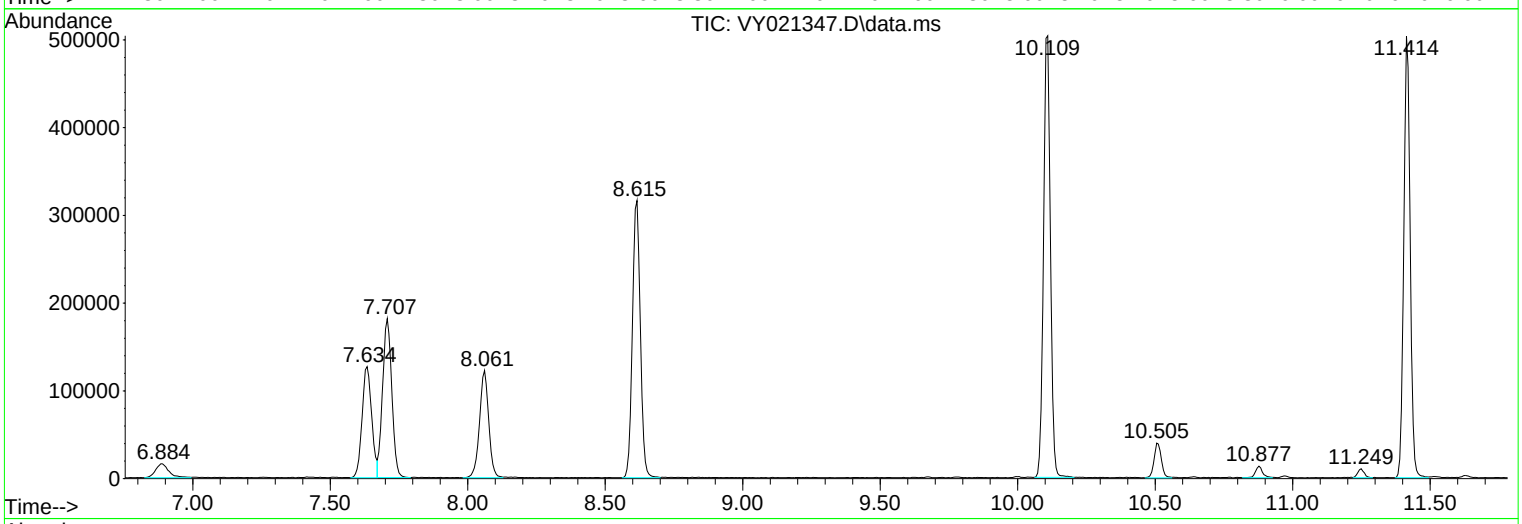
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

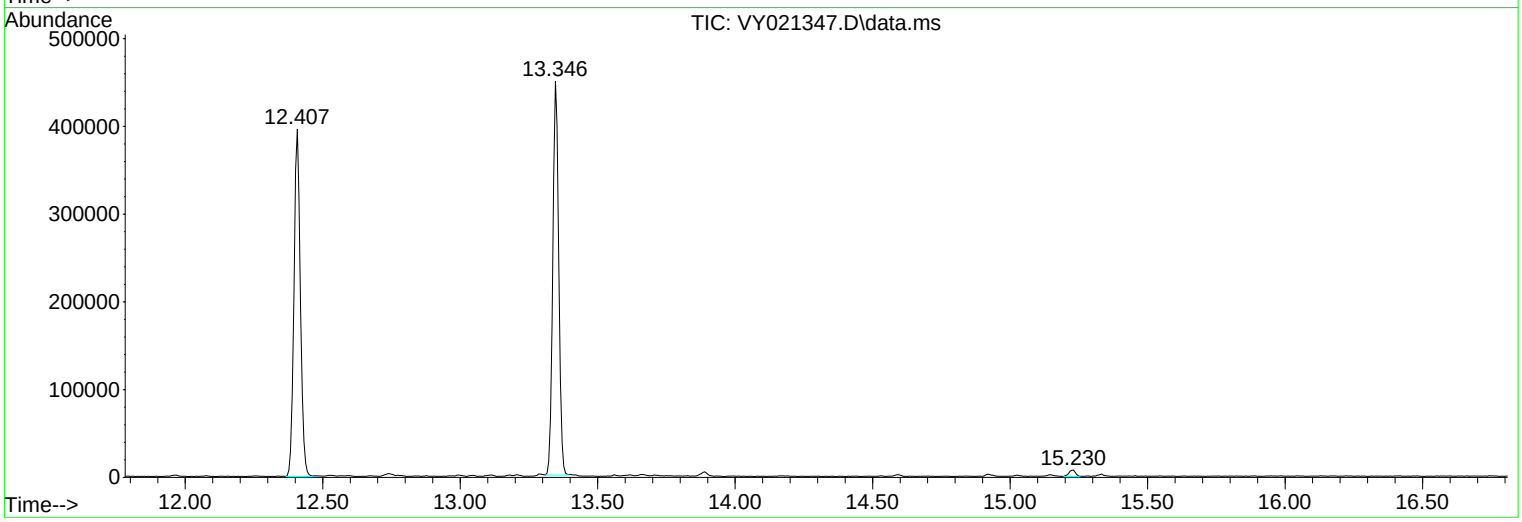
Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY021347.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	257358	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	436252	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	378131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	189869	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161971	48.544	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.080%			
35) Dibromofluoromethane	8.165	113	137284	48.092	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.180%			
50) Toluene-d8	10.565	98	512651	49.360	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.720%			
62) 4-Bromofluorobenzene	12.847	95	174876	51.104	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	69150	19.754	ug/l	100
3) Chloromethane	2.359	50	68791	19.584	ug/l	97
4) Vinyl Chloride	2.512	62	73012	19.631	ug/l	100
5) Bromomethane	2.953	94	46451	19.532	ug/l	97
6) Chloroethane	3.118	64	47196	19.158	ug/l	96
7) Trichlorofluoromethane	3.500	101	105770	19.642	ug/l	99
8) Diethyl Ether	3.959	74	34319	19.697	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	64634	20.765	ug/l	98
10) Methyl Iodide	4.589	142	73721	19.214	ug/l	95
11) Tert butyl alcohol	5.518	59	52251	127.326	ug/l	98
12) 1,1-Dichloroethene	4.342	96	54469	19.300	ug/l	92
13) Acrolein	4.183	56	62974	103.481	ug/l	95
14) Allyl chloride	5.024	41	80176	21.637	ug/l	87
15) Acrylonitrile	5.718	53	150940	113.141	ug/l	98
16) Acetone	4.424	43	115747	109.635	ug/l	96
17) Carbon Disulfide	4.718	76	153488	18.350	ug/l	97
18) Methyl Acetate	5.018	43	81482	22.439	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	173790	20.722	ug/l	100
20) Methylene Chloride	5.271	84	69243	20.395	ug/l	96
21) trans-1,2-Dichloroethene	5.789	96	58755	19.334	ug/l	95
22) Diisopropyl ether	6.671	45	180545	21.563	ug/l	96
23) Vinyl Acetate	6.600	43	583064	101.705	ug/l	100
24) 1,1-Dichloroethane	6.565	63	116963	20.550	ug/l	99
25) 2-Butanone	7.483	43	178921	115.195	ug/l	98
26) 2,2-Dichloropropane	7.488	77	100657	19.888	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	69180	19.633	ug/l	98
28) Bromochloromethane	7.812	49	58338	24.937	ug/l	98
29) Tetrahydrofuran	7.841	42	120300	119.944	ug/l	98
30) Chloroform	7.965	83	123507	20.764	ug/l	96
31) Cyclohexane	8.253	56	88180	18.503	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	103967	19.652	ug/l	95
36) 1,1-Dichloropropene	8.371	75	78040	19.316	ug/l	99
37) Ethyl Acetate	7.559	43	74240	22.330	ug/l	97
38) Carbon Tetrachloride	8.359	117	94174	19.618	ug/l	97
39) Methylcyclohexane	9.600	83	70553	17.776	ug/l	95
40) Benzene	8.600	78	263157	20.323	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	38988	21.936	ug/l		97
42) 1,2-Dichloroethane	8.665	62	83774	19.862	ug/l		98
43) Isopropyl Acetate	8.688	43	128897	21.783	ug/l		97
44) Trichloroethene	9.347	130	59592	18.744	ug/l		98
45) 1,2-Dichloropropane	9.618	63	64913	20.768	ug/l		95
46) Dibromomethane	9.706	93	46181	20.947	ug/l		99
47) Bromodichloromethane	9.888	83	97351	20.639	ug/l		97
48) Methyl methacrylate	9.677	41	52939	21.440	ug/l		99
49) 1,4-Dioxane	9.688	88	24332	518.211	ug/l		99
51) 4-Methyl-2-Pentanone	10.441	43	379660	118.440	ug/l		98
52) Toluene	10.629	92	160367	21.128	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	88415	20.271	ug/l		98
54) cis-1,3-Dichloropropene	10.306	75	100164	20.943	ug/l		95
55) 1,1,2-Trichloroethane	11.018	97	63105	20.910	ug/l		94
56) Ethyl methacrylate	10.871	69	82410	20.627	ug/l		99
57) 1,3-Dichloropropane	11.159	76	105668	20.975	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	188414	128.915	ug/l		99
59) 2-Hexanone	11.194	43	270234	122.544	ug/l		99
60) Dibromochloromethane	11.359	129	74702	21.258	ug/l		99
61) 1,2-Dibromoethane	11.465	107	60711	21.292	ug/l		98
64) Tetrachloroethene	11.100	164	56809	19.393	ug/l		99
65) Chlorobenzene	11.888	112	173970	20.083	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	64531	20.726	ug/l		99
67) Ethyl Benzene	11.959	91	272303	20.068	ug/l		100
68) m/p-Xylenes	12.070	106	221861	43.044	ug/l		97
69) o-Xylene	12.394	106	101081	20.638	ug/l		99
70) Styrene	12.412	104	173747	20.539	ug/l		99
71) Bromoform	12.576	173	51137	22.103	ug/l	#	97
73) Isopropylbenzene	12.694	105	249636	19.191	ug/l		98
74) N-amyl acetate	12.494	43	92165	20.092	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	92003	20.554	ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	73556m	17.440	ug/l		
77) Bromobenzene	12.976	156	69907	19.892	ug/l		97
78) n-propylbenzene	13.035	91	302379	20.298	ug/l		99
79) 2-Chlorotoluene	13.123	91	194800	19.571	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	218142	20.587	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	32780	22.677	ug/l		93
82) 4-Chlorotoluene	13.217	91	197799	20.046	ug/l		100
83) tert-Butylbenzene	13.435	119	172236	19.330	ug/l		96
84) 1,2,4-Trimethylbenzene	13.482	105	221104	21.091	ug/l		98
85) sec-Butylbenzene	13.612	105	246640	19.591	ug/l		100
86) p-Isopropyltoluene	13.729	119	201013	18.730	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	126500	19.213	ug/l		98
88) 1,4-Dichlorobenzene	13.806	146	126841	18.796	ug/l		98
89) n-Butylbenzene	14.053	91	158686	17.753	ug/l		96
90) Hexachloroethane	14.329	117	45668	19.154	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	123530	19.510	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	16177	19.681	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	51385	17.032	ug/l		98
94) Hexachlorobutadiene	15.500	225	30590	16.683	ug/l		97
95) Naphthalene	15.641	128	143702	17.349	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	53096	17.530	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

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

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

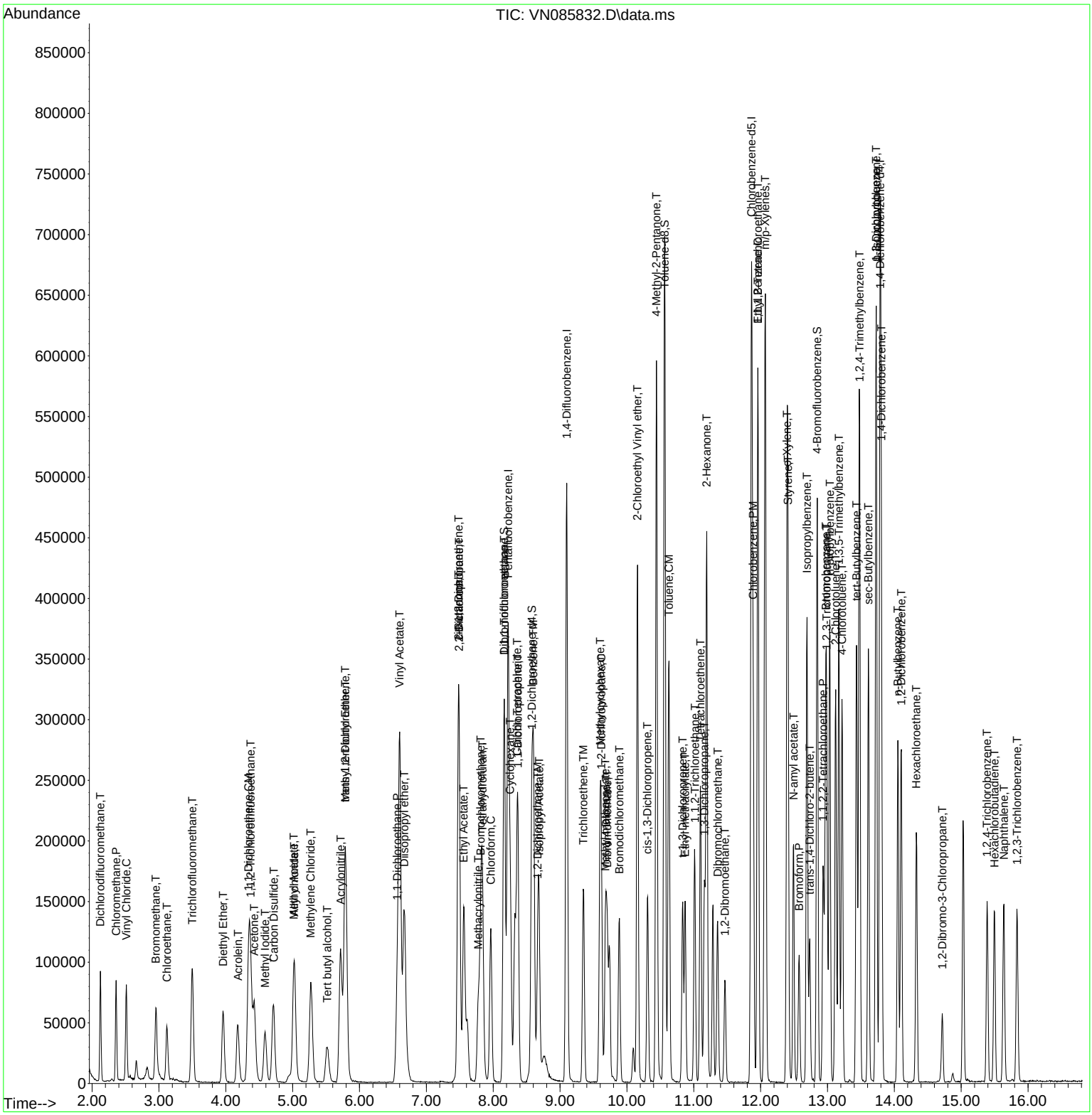
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085850.D
Acq On : 25 Feb 2025 12:14
Operator : JC\MD
Sample : VN0225WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 23:25:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	265043	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	437697	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	395653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	197432	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	172269	50.134	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.260%			
35) Dibromofluoromethane	8.165	113	148322	51.787	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.580%			
50) Toluene-d8	10.565	98	544780	52.280	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.560%			
62) 4-Bromofluorobenzene	12.847	95	184110	53.625	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	68544	19.013	ug/l	99
3) Chloromethane	2.359	50	68686	18.987	ug/l	98
4) Vinyl Chloride	2.512	62	71212	18.592	ug/l	100
5) Bromomethane	2.953	94	44318	18.095	ug/l	95
6) Chloroethane	3.118	64	45920	18.099	ug/l	96
7) Trichlorofluoromethane	3.494	101	104194	18.789	ug/l	99
8) Diethyl Ether	3.959	74	33122	18.459	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.371	101	63847	19.917	ug/l	98
10) Methyl Iodide	4.583	142	71951	18.209	ug/l	99
11) Tert butyl alcohol	5.518	59	52130	123.347	ug/l	97
12) 1,1-Dichloroethene	4.336	96	53755	18.494	ug/l	97
13) Acrolein	4.177	56	58917	94.007	ug/l	93
14) Allyl chloride	5.018	41	68034	17.828	ug/l	96
15) Acrylonitrile	5.712	53	157560	114.679	ug/l	99
16) Acetone	4.430	43	119579	109.981	ug/l	96
17) Carbon Disulfide	4.712	76	147385	17.110	ug/l	98
18) Methyl Acetate	5.024	43	85245	22.795	ug/l	98
19) Methyl tert-butyl Ether	5.794	73	167881	19.437	ug/l	99
20) Methylene Chloride	5.271	84	66760	19.093	ug/l	97
21) trans-1,2-Dichloroethene	5.788	96	58887	18.816	ug/l	91
22) Diisopropyl ether	6.671	45	177222	20.553	ug/l	98
23) Vinyl Acetate	6.606	43	570225	96.582	ug/l	100
24) 1,1-Dichloroethane	6.565	63	116398	19.857	ug/l	99
25) 2-Butanone	7.482	43	182994	114.401	ug/l	95
26) 2,2-Dichloropropane	7.488	77	99289	19.049	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	66321	18.276	ug/l	97
28) Bromochloromethane	7.812	49	54225	22.507	ug/l	96
29) Tetrahydrofuran	7.841	42	125088	121.101	ug/l	100
30) Chloroform	7.965	83	122120	19.936	ug/l	95
31) Cyclohexane	8.253	56	84430	17.203	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	105264	19.320	ug/l	98
36) 1,1-Dichloropropene	8.371	75	76675	18.916	ug/l	99
37) Ethyl Acetate	7.559	43	78448	23.517	ug/l	99
38) Carbon Tetrachloride	8.365	117	94107	19.539	ug/l	99
39) Methylcyclohexane	9.600	83	67293	16.899	ug/l	92
40) Benzene	8.606	78	256795	19.766	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085850.D
Acq On : 25 Feb 2025 12:14
Operator : JC\MD
Sample : VN0225WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 23:25:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	39374	22.080	ug/l		96
42) 1,2-Dichloroethane	8.671	62	84230	19.905	ug/l		100
43) Isopropyl Acetate	8.688	43	127009	21.383	ug/l		99
44) Trichloroethene	9.347	130	58620	18.377	ug/l		97
45) 1,2-Dichloropropane	9.618	63	63306	20.187	ug/l		100
46) Dibromomethane	9.706	93	46442	20.996	ug/l		99
47) Bromodichloromethane	9.888	83	96402	20.371	ug/l		99
48) Methyl methacrylate	9.682	41	51937	20.965	ug/l		96
49) 1,4-Dioxane	9.694	88	25683	545.178	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.441	43	398075	123.775	ug/l		98
52) Toluene	10.629	92	158936	20.870	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	86836	19.844	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	95747	19.953	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	62995	20.805	ug/l		97
56) Ethyl methacrylate	10.871	69	82092	20.490	ug/l		98
57) 1,3-Dichloropropane	11.159	76	104501	20.675	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	198181	134.520	ug/l		98
59) 2-Hexanone	11.194	43	287511	129.948	ug/l		99
60) Dibromochloromethane	11.359	129	74709	21.189	ug/l		100
61) 1,2-Dibromoethane	11.470	107	60655	21.202	ug/l		100
64) Tetrachloroethene	11.100	164	56528	18.442	ug/l		94
65) Chlorobenzene	11.888	112	172945	19.081	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	65682	20.161	ug/l		97
67) Ethyl Benzene	11.965	91	270608	19.060	ug/l		98
68) m/p-Xylenes	12.070	106	220483	40.882	ug/l		99
69) o-Xylene	12.400	106	99401	19.396	ug/l		99
70) Styrene	12.412	104	173108	19.620	ug/l		98
71) Bromoform	12.576	173	52773	21.800	ug/l	#	96
73) Isopropylbenzene	12.694	105	246196	18.202	ug/l		97
74) N-amyl acetate	12.494	43	97676	20.478	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	95820	20.587	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	79622m	18.155	ug/l		
77) Bromobenzene	12.982	156	68892	18.852	ug/l		95
78) n-propylbenzene	13.035	91	302759	19.545	ug/l		100
79) 2-Chlorotoluene	13.123	91	196280	18.965	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	220385	20.002	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	34079	22.673	ug/l		98
82) 4-Chlorotoluene	13.223	91	201651	19.653	ug/l		100
83) tert-Butylbenzene	13.435	119	174208	18.802	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	219405	20.127	ug/l		99
85) sec-Butylbenzene	13.617	105	244227	18.656	ug/l		100
86) p-Isopropyltoluene	13.729	119	199558	17.934	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	128639	18.789	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	128477	18.309	ug/l		99
89) n-Butylbenzene	14.053	91	156665	16.856	ug/l		97
90) Hexachloroethane	14.335	117	46787	18.871	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	123362	18.737	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	17037	19.934	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	52483	16.729	ug/l		100
94) Hexachlorobutadiene	15.500	225	30326	15.906	ug/l		97
95) Naphthalene	15.641	128	141301	16.406	ug/l		98
96) 1,2,3-Trichlorobenzene	15.841	180	52062	16.530	ug/l		99

Sample Results: **VN085850.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085850.D
Acq On : 25 Feb 2025 12:14
Operator : JC\MD
Sample : VN0225WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 23:25:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

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

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

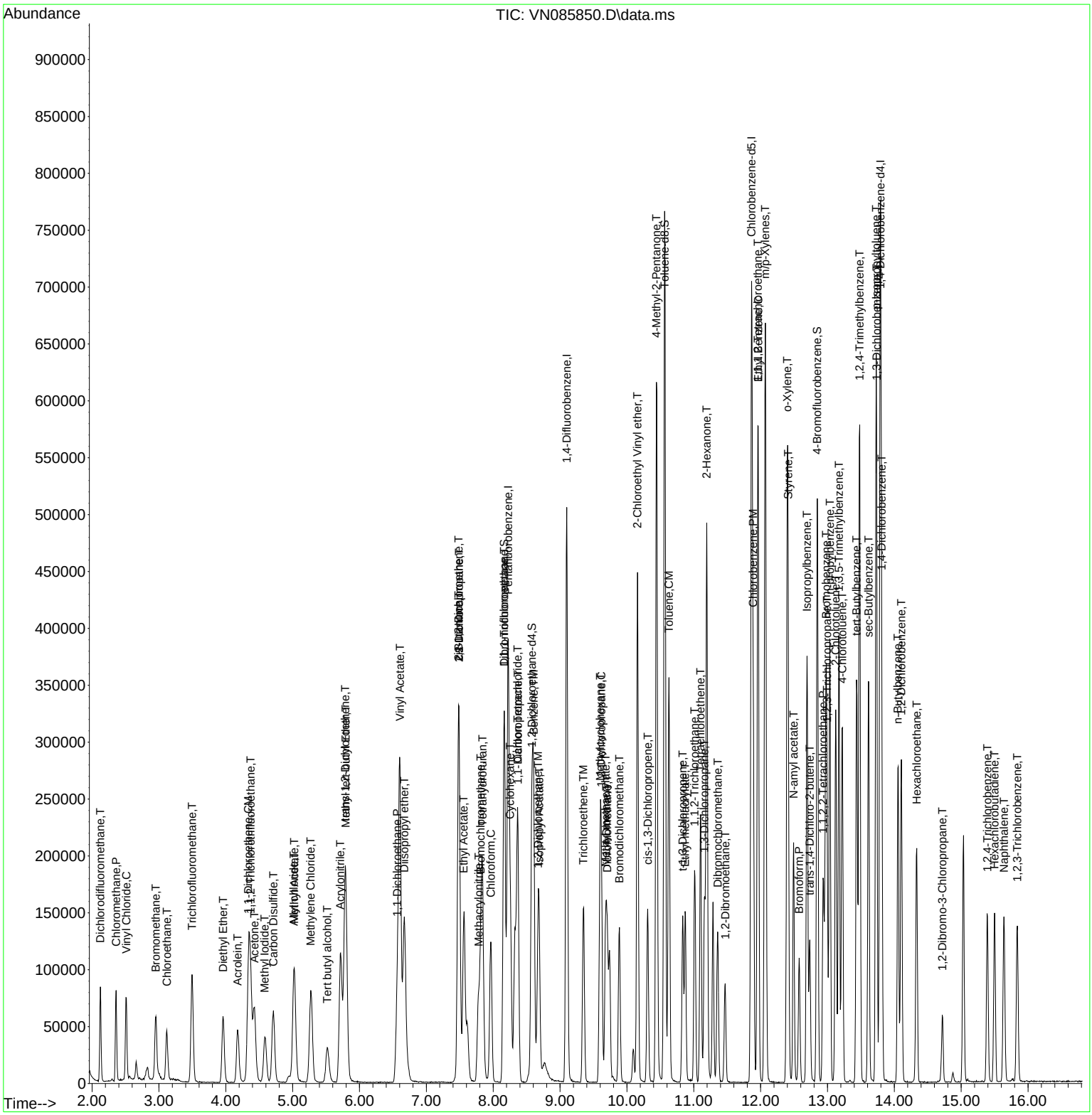
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085850.D
Acq On : 25 Feb 2025 12:14
Operator : JC\MD
Sample : VN0225WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 23:25:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021322.D
Acq On : 26 Feb 2025 11:22
Operator : SY/MD
Sample : VY0226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 00:35:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	184417	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	291138	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	254891	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	128725	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	97685	46.693	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.380%			
35) Dibromofluoromethane	7.634	113	90492	47.410	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 94.820%			
50) Toluene-d8	10.109	98	351200	47.609	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.220%			
62) 4-Bromofluorobenzene	12.407	95	117404	47.291	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	34125	19.517	ug/l	97
3) Chloromethane	2.068	50	42771	18.941	ug/l	96
4) Vinyl Chloride	2.202	62	42765	19.295	ug/l	98
5) Bromomethane	2.592	94	28297	19.212	ug/l	100
6) Chloroethane	2.732	64	26124	19.007	ug/l	95
7) Trichlorofluoromethane	3.056	101	63673	19.022	ug/l	100
8) Diethyl Ether	3.452	74	19334	19.245	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	38299	19.763	ug/l	98
10) Methyl Iodide	4.007	142	37750	18.516	ug/l	99
11) Tert butyl alcohol	4.854	59	13942	86.641	ug/l #	90
12) 1,1-Dichloroethene	3.787	96	35305	19.026	ug/l	96
13) Acrolein	3.653	56	20005	162.231	ug/l	95
14) Allyl chloride	4.385	41	62973	19.141	ug/l	98
15) Acrylonitrile	5.061	53	42599	95.903	ug/l	99
16) Acetone	3.872	43	38073	94.873	ug/l	99
17) Carbon Disulfide	4.104	76	114721	18.619	ug/l	100
18) Methyl Acetate	4.385	43	18152	18.509	ug/l	96
19) Methyl tert-butyl Ether	5.110	73	93663	19.105	ug/l	100
20) Methylene Chloride	4.610	84	40120	18.488	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	38871	19.029	ug/l	97
22) Diisopropyl ether	6.018	45	134550	19.764	ug/l	100
23) Vinyl Acetate	5.957	43	386141	94.917	ug/l	98
24) 1,1-Dichloroethane	5.915	63	73384	19.125	ug/l	99
25) 2-Butanone	6.890	43	56272	92.910	ug/l	100
26) 2,2-Dichloropropane	6.884	77	66242	19.026	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	44795	19.204	ug/l	99
28) Bromochloromethane	7.244	49	30330	17.864	ug/l	99
29) Tetrahydrofuran	7.262	42	37274	94.152	ug/l	98
30) Chloroform	7.421	83	75017	19.294	ug/l	99
31) Cyclohexane	7.701	56	69642	18.881	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	67879	19.180	ug/l	99
36) 1,1-Dichloropropene	7.835	75	55184	19.247	ug/l	100
37) Ethyl Acetate	6.988	43	28035	19.657	ug/l	99
38) Carbon Tetrachloride	7.817	117	61214	18.991	ug/l	96
39) Methylcyclohexane	9.109	83	68527	18.897	ug/l	97
40) Benzene	8.079	78	163641	19.308	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021322.D
Acq On : 26 Feb 2025 11:22
Operator : SY/MD
Sample : VY0226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 00:35:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	12920m	16.203	ug/l		
42) 1,2-Dichloroethane	8.158	62	46152	19.193	ug/l		100
43) Isopropyl Acetate	8.195	43	51417	18.626	ug/l		99
44) Trichloroethene	8.865	130	40770	19.214	ug/l		98
45) 1,2-Dichloropropane	9.140	63	39037	19.139	ug/l		95
46) Dibromomethane	9.231	93	21795	19.549	ug/l		97
47) Bromodichloromethane	9.420	83	56650	19.056	ug/l		97
48) Methyl methacrylate	9.219	41	25014	19.377	ug/l		99
49) 1,4-Dioxane	9.231	88	4576	369.128	ug/l		97
51) 4-Methyl-2-Pentanone	9.999	43	131838	93.298	ug/l		100
52) Toluene	10.170	92	101381	19.255	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	51842	19.034	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	61986	19.278	ug/l		96
55) 1,1,2-Trichloroethane	10.572	97	27740	19.099	ug/l		97
56) Ethyl methacrylate	10.438	69	37632	18.751	ug/l		99
57) 1,3-Dichloropropane	10.719	76	49393	19.380	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	87093	90.414	ug/l		100
59) 2-Hexanone	10.761	43	87008	93.755	ug/l		99
60) Dibromochloromethane	10.908	129	38212	19.318	ug/l		100
61) 1,2-Dibromoethane	11.011	107	25849	18.799	ug/l		96
64) Tetrachloroethene	10.646	164	36984	19.197	ug/l		97
65) Chlorobenzene	11.444	112	108578	18.977	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.517	131	39302	19.617	ug/l		98
67) Ethyl Benzene	11.517	91	192592	19.003	ug/l		100
68) m/p-Xylenes	11.627	106	147929	38.806	ug/l		100
69) o-Xylene	11.956	106	69071	19.342	ug/l		99
70) Styrene	11.969	104	114447	19.262	ug/l		99
71) Bromoform	12.133	173	21872	19.083	ug/l	#	99
73) Isopropylbenzene	12.255	105	184435	19.058	ug/l		100
74) N-amyl acetate	12.072	43	44104	17.930	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	32169	18.835	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	20053m	15.563	ug/l		
77) Bromobenzene	12.529	156	42599	18.925	ug/l		98
78) n-propylbenzene	12.596	91	226845	19.317	ug/l		100
79) 2-Chlorotoluene	12.682	91	128526	19.070	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	155422	19.582	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	10066	17.364	ug/l		95
82) 4-Chlorotoluene	12.779	91	133936	19.171	ug/l		100
83) tert-Butylbenzene	12.999	119	136788	19.079	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	152431	19.310	ug/l		99
85) sec-Butylbenzene	13.176	105	204066	19.486	ug/l		100
86) p-Isopropyltoluene	13.291	119	167856	19.195	ug/l		100
87) 1,3-Dichlorobenzene	13.291	146	85257	19.148	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	84570	19.226	ug/l		99
89) n-Butylbenzene	13.621	91	155625	18.911	ug/l		100
90) Hexachloroethane	13.883	117	34224	18.736	ug/l		100
91) 1,2-Dichlorobenzene	13.663	146	73256	18.778	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5025	18.599	ug/l		93
93) 1,2,4-Trichlorobenzene	14.925	180	42148	17.702	ug/l		99
94) Hexachlorobutadiene	15.023	225	27956	18.650	ug/l		99
95) Naphthalene	15.151	128	68106	17.269	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	36072	17.931	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021322.D
Acq On : 26 Feb 2025 11:22
Operator : SY/MD
Sample : VY0226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 00:35:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

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

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

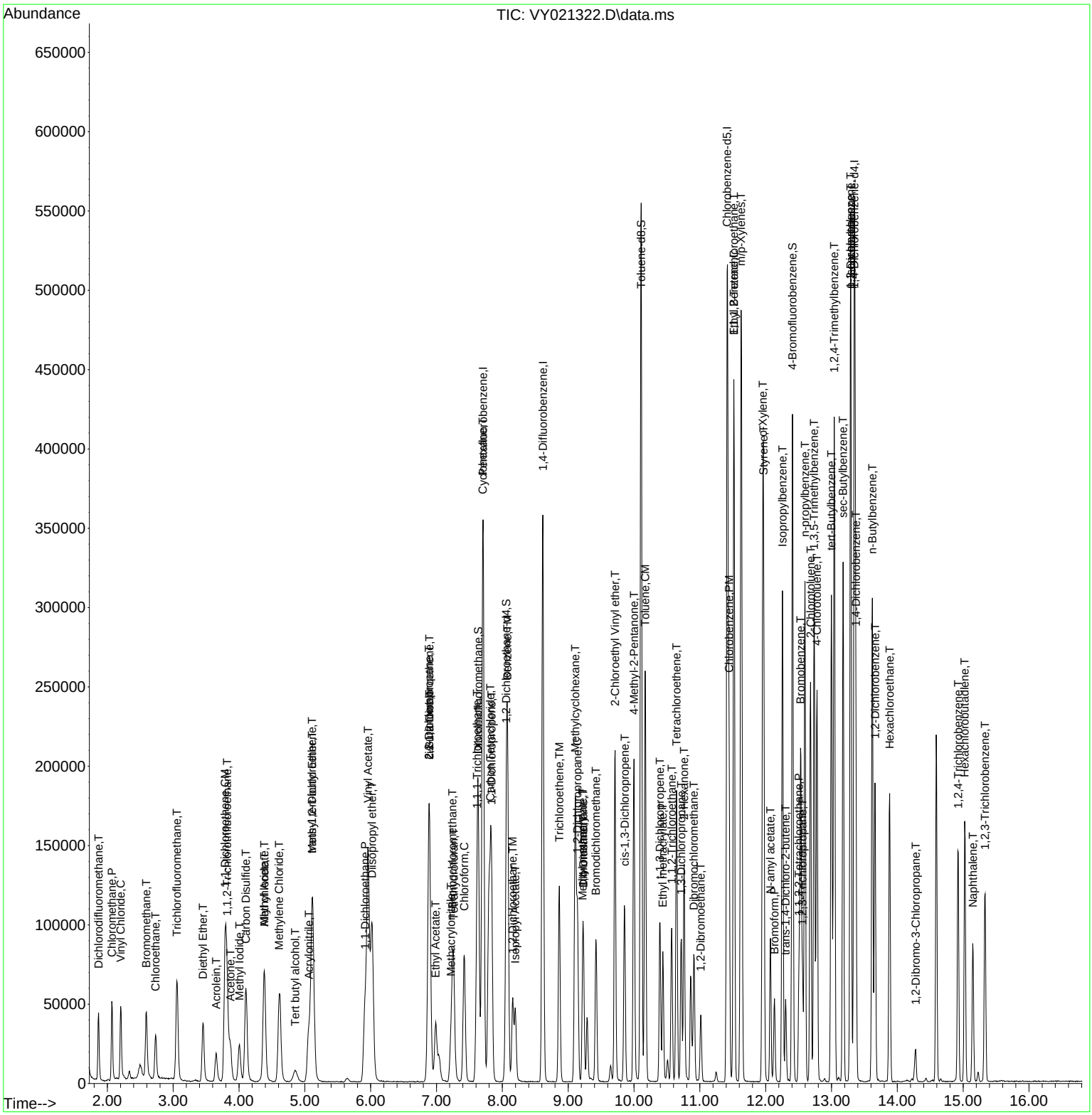
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021322.D
Acq On : 26 Feb 2025 11:22
Operator : SY/MD
Sample : VY0226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 00:35:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	199987	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	311959	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	272418	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	138215	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	116027	51.143	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.280%			
35) Dibromofluoromethane	7.628	113	106867	52.252	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.500%			
50) Toluene-d8	10.103	98	413664	52.334	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.660%			
62) 4-Bromofluorobenzene	12.408	95	139307	52.368	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 104.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	37086	19.559	ug/l	97
3) Chloromethane	2.068	50	45372	18.528	ug/l	98
4) Vinyl Chloride	2.202	62	46452	19.327	ug/l	97
5) Bromomethane	2.586	94	30476	19.081	ug/l	99
6) Chloroethane	2.733	64	29673	19.908	ug/l	98
7) Trichlorofluoromethane	3.056	101	73497	20.248	ug/l	99
8) Diethyl Ether	3.452	74	20917	19.199	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	42936	20.431	ug/l	99
10) Methyl Iodide	4.001	142	41447	18.746	ug/l	100
11) Tert butyl alcohol	4.860	59	15512	88.893	ug/l	97
12) 1,1-Dichloroethene	3.787	96	39988	19.872	ug/l	94
13) Acrolein	3.647	56	22410	167.586	ug/l	95
14) Allyl chloride	4.379	41	67291	18.861	ug/l	99
15) Acrylonitrile	5.055	53	44168	91.694	ug/l	98
16) Acetone	3.866	43	46430	106.690	ug/l	99
17) Carbon Disulfide	4.104	76	123567	18.493	ug/l	100
18) Methyl Acetate	4.385	43	19413	18.253	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	101763	19.141	ug/l	99
20) Methylene Chloride	4.616	84	46825	19.898	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	43373	19.580	ug/l	97
22) Diisopropyl ether	6.019	45	143470	19.433	ug/l	98
23) Vinyl Acetate	5.958	43	413611	93.754	ug/l	99
24) 1,1-Dichloroethane	5.909	63	81302	19.539	ug/l	98
25) 2-Butanone	6.890	43	63968	97.394	ug/l	99
26) 2,2-Dichloropropane	6.878	77	75215	19.921	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	49301	19.490	ug/l	99
28) Bromochloromethane	7.244	49	34908	18.960	ug/l	99
29) Tetrahydrofuran	7.262	42	39410	91.797	ug/l	99
30) Chloroform	7.421	83	84823	20.118	ug/l	98
31) Cyclohexane	7.701	56	74866	18.717	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	76848	20.024	ug/l	98
36) 1,1-Dichloropropene	7.835	75	60971	19.846	ug/l	99
37) Ethyl Acetate	6.988	43	28033	18.344	ug/l	97
38) Carbon Tetrachloride	7.817	117	68822	19.927	ug/l	98
39) Methylcyclohexane	9.109	83	74844	19.261	ug/l	97
40) Benzene	8.079	78	180639	19.891	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	17060m	19.967	ug/l		
42) 1,2-Dichloroethane	8.158	62	52273	20.288	ug/l		99
43) Isopropyl Acetate	8.195	43	54717	18.499	ug/l		99
44) Trichloroethene	8.866	130	45500	20.012	ug/l		97
45) 1,2-Dichloropropane	9.140	63	43265	19.796	ug/l		96
46) Dibromomethane	9.231	93	23940	20.039	ug/l		100
47) Bromodichloromethane	9.420	83	64230	20.164	ug/l		97
48) Methyl methacrylate	9.219	41	24954	18.041	ug/l		97
49) 1,4-Dioxane	9.225	88	4987	375.432	ug/l		94
51) 4-Methyl-2-Pentanone	9.999	43	139296	91.997	ug/l		99
52) Toluene	10.170	92	114108	20.226	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	56809	19.466	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	66736	19.370	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	31323	20.127	ug/l		98
56) Ethyl methacrylate	10.438	69	41028	19.079	ug/l		97
57) 1,3-Dichloropropane	10.713	76	54720	20.037	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	96301	93.300	ug/l		99
59) 2-Hexanone	10.762	43	95328	95.864	ug/l		100
60) Dibromochloromethane	10.914	129	41937	19.786	ug/l		99
61) 1,2-Dibromoethane	11.012	107	28803	19.549	ug/l		98
64) Tetrachloroethene	10.646	164	40978	19.901	ug/l		97
65) Chlorobenzene	11.438	112	121107	19.805	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	43712	20.415	ug/l		100
67) Ethyl Benzene	11.518	91	217521	20.082	ug/l		98
68) m/p-Xylenes	11.627	106	164558	40.391	ug/l		100
69) o-Xylene	11.956	106	75583	19.803	ug/l		99
70) Styrene	11.969	104	125803	19.811	ug/l		99
71) Bromoform	12.133	173	24353	19.881	ug/l	#	99
73) Isopropylbenzene	12.255	105	206205	19.845	ug/l		99
74) N-amyl acetate	12.072	43	47320	17.916	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	34737	18.942	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	25901m	18.722	ug/l		
77) Bromobenzene	12.530	156	47735	19.751	ug/l		97
78) n-propylbenzene	12.597	91	251702	19.962	ug/l		100
79) 2-Chlorotoluene	12.682	91	142369	19.674	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	170506	20.007	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	11755	18.885	ug/l		99
82) 4-Chlorotoluene	12.780	91	149541	19.935	ug/l		99
83) tert-Butylbenzene	12.999	119	154147	20.024	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	170349	20.098	ug/l		100
85) sec-Butylbenzene	13.176	105	225031	20.012	ug/l		99
86) p-Isopropyltoluene	13.292	119	187791	20.000	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	95671	20.011	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	93607	19.820	ug/l		98
89) n-Butylbenzene	13.621	91	175070	19.813	ug/l		100
90) Hexachloroethane	13.883	117	38407	19.583	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	82275	19.642	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5427	18.707	ug/l		98
93) 1,2,4-Trichlorobenzene	14.925	180	46899	18.345	ug/l		99
94) Hexachlorobutadiene	15.029	225	31841	19.783	ug/l		100
95) Naphthalene	15.145	128	73424	17.339	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	40776	18.878	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

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

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

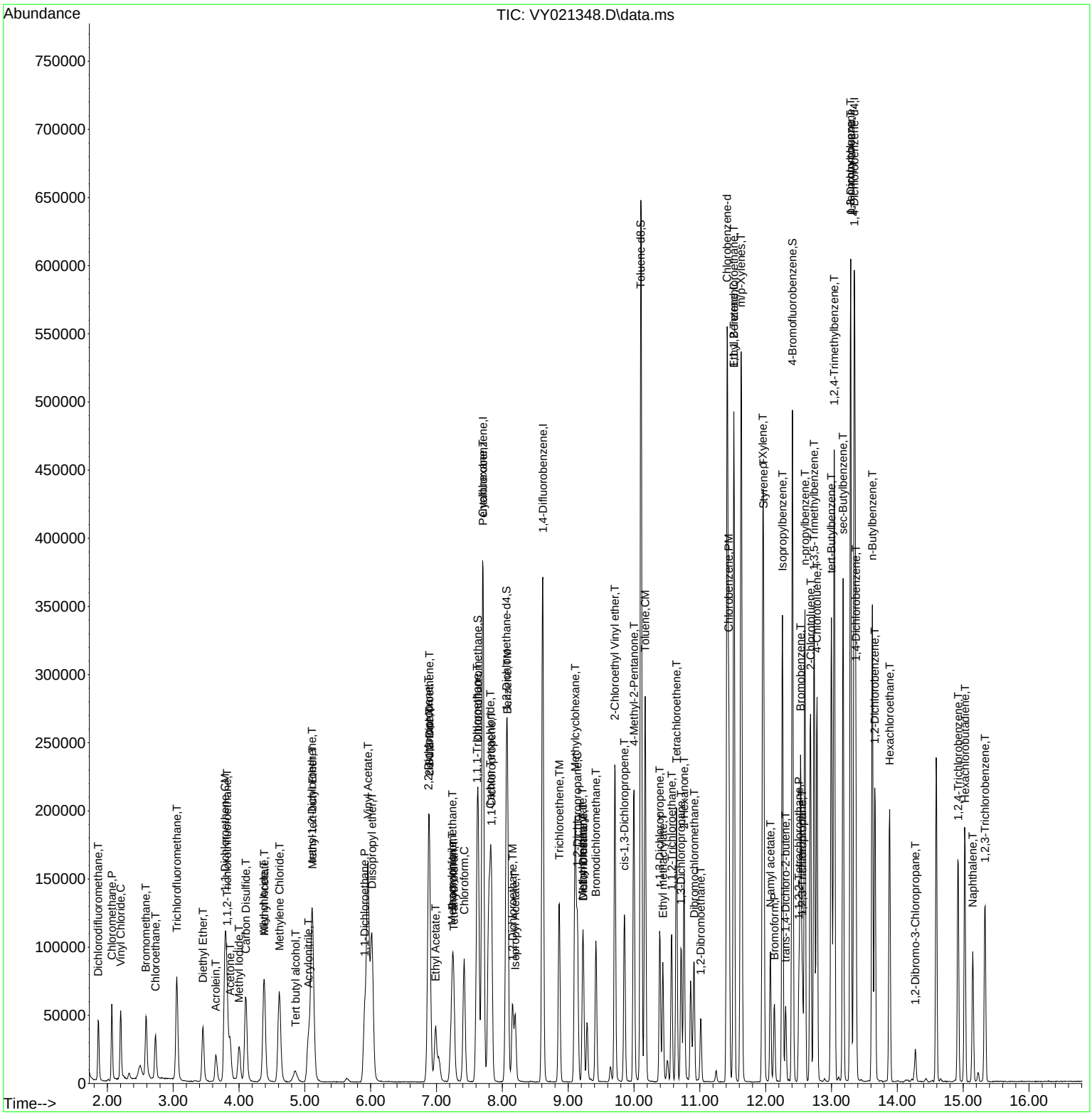
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085833.D
Acq On : 24 Feb 2025 13:36
Operator : JC\MD
Sample : VN0224WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 25 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	254490	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	420351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	372649	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	182403	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161563	48.968	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.940%			
35) Dibromofluoromethane	8.165	113	136434	49.602	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.200%			
50) Toluene-d8	10.565	98	500928	50.056	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.120%			
62) 4-Bromofluorobenzene	12.847	95	171801	52.105	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	67546	19.513	ug/l	100
3) Chloromethane	2.359	50	69293	19.949	ug/l	96
4) Vinyl Chloride	2.512	62	70256	19.103	ug/l	100
5) Bromomethane	2.959	94	44608	18.969	ug/l	95
6) Chloroethane	3.118	64	46079	18.915	ug/l	94
7) Trichlorofluoromethane	3.495	101	102673	19.282	ug/l	94
8) Diethyl Ether	3.959	74	34433	19.985	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	61837	20.090	ug/l	98
10) Methyl Iodide	4.589	142	74336	19.593	ug/l	97
11) Tert butyl alcohol	5.518	59	52556	129.512	ug/l	99
12) 1,1-Dichloroethene	4.342	96	55272	19.805	ug/l	94
13) Acrolein	4.177	56	65668	109.124	ug/l	97
14) Allyl chloride	5.018	41	68902	18.804	ug/l	96
15) Acrylonitrile	5.718	53	155867	118.151	ug/l	98
16) Acetone	4.424	43	120571	115.491	ug/l	93
17) Carbon Disulfide	4.712	76	146999	17.772	ug/l	100
18) Methyl Acetate	5.018	43	84210	23.452	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	173460	20.916	ug/l	98
20) Methylene Chloride	5.277	84	67489	20.102	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	57869	19.257	ug/l	98
22) Diisopropyl ether	6.665	45	176742	21.347	ug/l	96
23) Vinyl Acetate	6.600	43	593068	104.616	ug/l	99
24) 1,1-Dichloroethane	6.571	63	114160	20.283	ug/l	99
25) 2-Butanone	7.477	43	183586	119.531	ug/l	98
26) 2,2-Dichloropropane	7.488	77	97025	19.386	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	68278	19.596	ug/l	97
28) Bromochloromethane	7.812	49	57799	24.985	ug/l	96
29) Tetrahydrofuran	7.835	42	124442	125.472	ug/l	99
30) Chloroform	7.965	83	118725	20.185	ug/l	92
31) Cyclohexane	8.253	56	85444	18.131	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	101538	19.409	ug/l	97
36) 1,1-Dichloropropene	8.371	75	77066	19.797	ug/l	99
37) Ethyl Acetate	7.559	43	75890	23.689	ug/l	98
38) Carbon Tetrachloride	8.359	117	91756	19.837	ug/l	99
39) Methylcyclohexane	9.600	83	69336	18.130	ug/l	95
40) Benzene	8.606	78	255468	20.476	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085833.D
Acq On : 24 Feb 2025 13:36
Operator : JC\MD
Sample : VN0224WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 25 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	37867	22.112	ug/l		94
42) 1,2-Dichloroethane	8.671	62	82936	20.408	ug/l		100
43) Isopropyl Acetate	8.688	43	132861	23.340	ug/l		98
44) Trichloroethene	9.347	130	58457	19.082	ug/l		99
45) 1,2-Dichloropropane	9.618	63	62593	20.784	ug/l		95
46) Dibromomethane	9.706	93	45573	21.453	ug/l		99
47) Bromodichloromethane	9.882	83	94873	20.875	ug/l		100
48) Methyl methacrylate	9.677	41	53084	22.312	ug/l		98
49) 1,4-Dioxane	9.688	88	23894	528.132	ug/l	#	97
51) 4-Methyl-2-Pentanone	10.441	43	384206	124.392	ug/l		100
52) Toluene	10.629	92	154597	21.138	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	91440	21.758	ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	95689	20.764	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	64471	22.171	ug/l		94
56) Ethyl methacrylate	10.871	69	82880	21.466	ug/l		98
57) 1,3-Dichloropropane	11.159	76	102761	21.169	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	194148	136.927	ug/l		100
59) 2-Hexanone	11.194	43	276584	130.168	ug/l		99
60) Dibromochloromethane	11.359	129	74225	21.921	ug/l		99
61) 1,2-Dibromoethane	11.465	107	60464	22.007	ug/l		98
64) Tetrachloroethene	11.100	164	55733	19.305	ug/l		93
65) Chlorobenzene	11.888	112	169493	19.854	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	64196	20.921	ug/l		99
67) Ethyl Benzene	11.959	91	264854	19.806	ug/l		98
68) m/p-Xylenes	12.070	106	215709	42.466	ug/l		98
69) o-Xylene	12.394	106	98161	20.336	ug/l		99
70) Styrene	12.412	104	170947	20.508	ug/l		99
71) Bromoform	12.576	173	50313	22.067	ug/l	#	99
73) Isopropylbenzene	12.694	105	243501	19.486	ug/l		100
74) N-amyl acetate	12.494	43	94407	21.423	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	91358	21.245	ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	84006m	20.733	ug/l		
77) Bromobenzene	12.976	156	67340	19.946	ug/l		95
78) n-propylbenzene	13.035	91	294534	20.580	ug/l		100
79) 2-Chlorotoluene	13.123	91	189193	19.786	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	210864	20.715	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	32945	23.724	ug/l		90
82) 4-Chlorotoluene	13.217	91	193783	20.443	ug/l		100
83) tert-Butylbenzene	13.435	119	165247	19.304	ug/l		96
84) 1,2,4-Trimethylbenzene	13.482	105	212701	21.120	ug/l		99
85) sec-Butylbenzene	13.617	105	241530	19.970	ug/l		100
86) p-Isopropyltoluene	13.729	119	197164	19.099	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	126447	19.991	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	125945	19.427	ug/l		100
89) n-Butylbenzene	14.053	91	155594	18.120	ug/l		97
90) Hexachloroethane	14.329	117	44767	19.544	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	122292	20.105	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	16882	21.380	ug/l		100
93) 1,2,4-Trichlorobenzene	15.394	180	53723	18.536	ug/l		98
94) Hexachlorobutadiene	15.500	225	30704	17.431	ug/l		95
95) Naphthalene	15.641	128	153679	19.313	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	55549	19.091	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085833.D
Acq On : 24 Feb 2025 13:36
Operator : JC\MD
Sample : VN0224WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 25 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

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

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

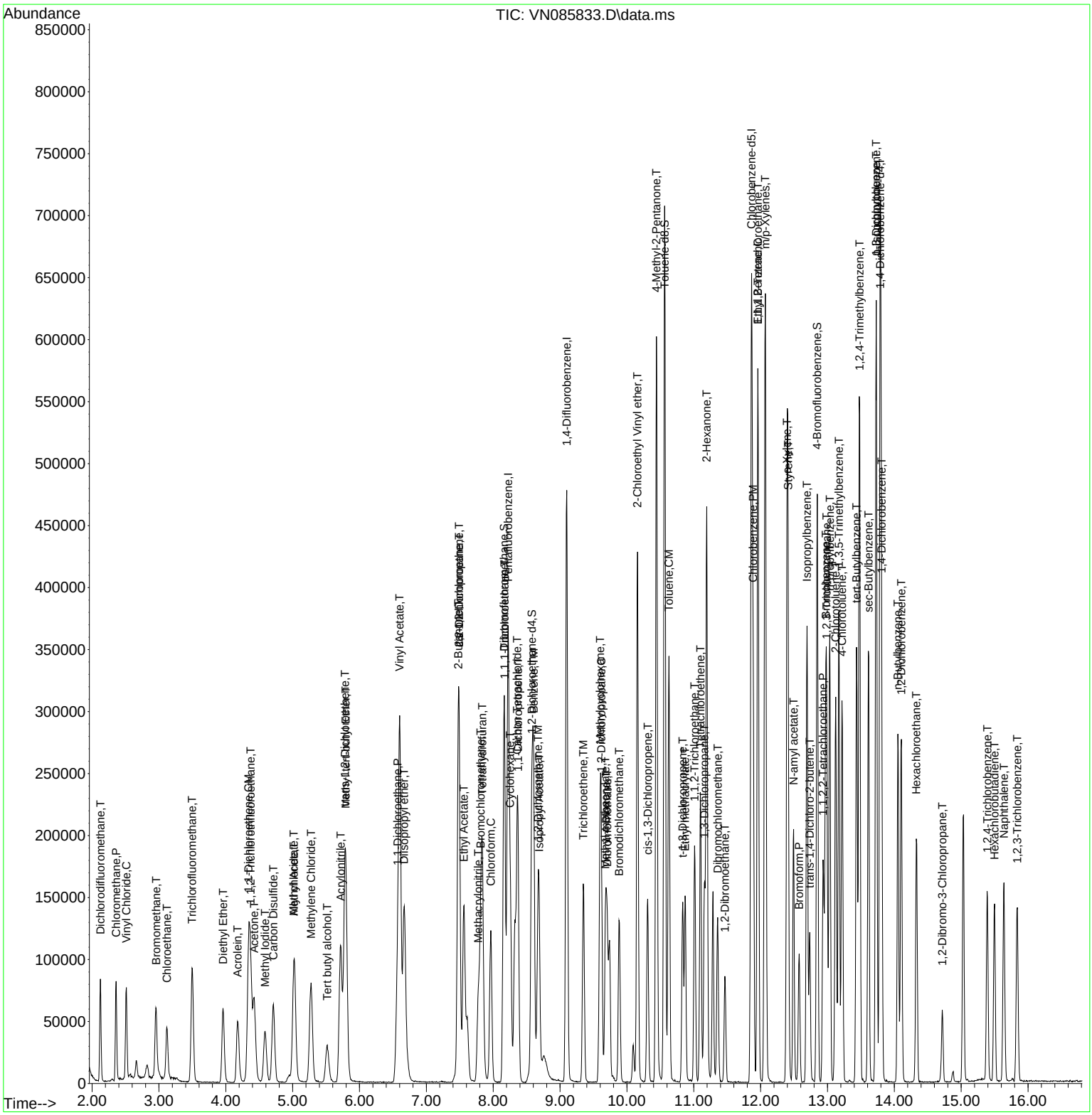
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085833.D
Acq On : 24 Feb 2025 13:36
Operator : JC\MD
Sample : VN0224WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 25 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021323.D
Acq On : 26 Feb 2025 11:44
Operator : SY/MD
Sample : VY0226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 00:36:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	186200	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	292071	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	258744	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	129829	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	102341	48.451	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.900%			
35) Dibromofluoromethane	7.634	113	94057	49.120	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.240%			
50) Toluene-d8	10.103	98	369458	49.924	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.840%			
62) 4-Bromofluorobenzene	12.408	95	125203	50.271	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	33929	19.219	ug/l	98
3) Chloromethane	2.068	50	44643	19.581	ug/l	94
4) Vinyl Chloride	2.202	62	43431	19.408	ug/l	95
5) Bromomethane	2.586	94	28875	19.417	ug/l	91
6) Chloroethane	2.732	64	27157	19.569	ug/l	98
7) Trichlorofluoromethane	3.056	101	64725	19.152	ug/l	98
8) Diethyl Ether	3.452	74	19301	19.028	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	39047	19.956	ug/l	99
10) Methyl Iodide	4.000	142	38731	18.815	ug/l	99
11) Tert butyl alcohol	4.848	59	15317	94.274	ug/l	97
12) 1,1-Dichloroethene	3.787	96	35945	19.186	ug/l	98
13) Acrolein	3.647	56	22337	179.408	ug/l	96
14) Allyl chloride	4.385	41	64619	19.454	ug/l	99
15) Acrylonitrile	5.049	53	42848	95.540	ug/l	99
16) Acetone	3.866	43	36994	91.302	ug/l	96
17) Carbon Disulfide	4.104	76	119697	19.240	ug/l	99
18) Methyl Acetate	4.378	43	19000	19.188	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	96512	19.498	ug/l	98
20) Methylene Chloride	4.616	84	41428	18.908	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	39986	19.387	ug/l	97
22) Diisopropyl ether	6.018	45	136570	19.868	ug/l	97
23) Vinyl Acetate	5.957	43	400683	97.548	ug/l	98
24) 1,1-Dichloroethane	5.915	63	75455	19.476	ug/l	100
25) 2-Butanone	6.896	43	57737	94.416	ug/l	100
26) 2,2-Dichloropropane	6.884	77	67846	19.300	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	46880	19.905	ug/l	98
28) Bromochloromethane	7.238	49	34082	19.882	ug/l	99
29) Tetrahydrofuran	7.262	42	39639	99.167	ug/l	97
30) Chloroform	7.421	83	76696	19.537	ug/l	98
31) Cyclohexane	7.701	56	71145	19.104	ug/l #	94
32) 1,1,1-Trichloroethane	7.610	97	68700	19.226	ug/l	99
36) 1,1-Dichloropropene	7.835	75	57651	20.043	ug/l	99
37) Ethyl Acetate	6.982	43	28136	19.665	ug/l	100
38) Carbon Tetrachloride	7.817	117	63336	19.587	ug/l	99
39) Methylcyclohexane	9.109	83	71099	19.543	ug/l	99
40) Benzene	8.079	78	169384	19.922	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021323.D
Acq On : 26 Feb 2025 11:44
Operator : SY/MD
Sample : VY0226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 00:36:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.219	41	16363	20.455 ug/l #	73
42) 1,2-Dichloroethane	8.158	62	47566	19.718 ug/l	100
43) Isopropyl Acetate	8.195	43	54330	19.618 ug/l	99
44) Trichloroethene	8.865	130	41805	19.638 ug/l	97
45) 1,2-Dichloropropane	9.140	63	40089	19.592 ug/l	99
46) Dibromomethane	9.231	93	21727	19.425 ug/l	100
47) Bromodichloromethane	9.420	83	58116	19.487 ug/l	100
48) Methyl methacrylate	9.219	41	23787	18.368 ug/l	94
49) 1,4-Dioxane	9.225	88	4464	358.943 ug/l	99
51) 4-Methyl-2-Pentanone	9.999	43	138572	97.751 ug/l	99
52) Toluene	10.170	92	104255	19.738 ug/l	98
53) t-1,3-Dichloropropene	10.390	75	53978	19.755 ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	62124	19.260 ug/l	95
55) 1,1,2-Trichloroethane	10.572	97	28227	19.373 ug/l	96
56) Ethyl methacrylate	10.438	69	39319	19.530 ug/l	99
57) 1,3-Dichloropropane	10.713	76	51397	20.102 ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	90024	93.158 ug/l	100
59) 2-Hexanone	10.761	43	89865	96.524 ug/l	99
60) Dibromochloromethane	10.914	129	39272	19.790 ug/l	98
61) 1,2-Dibromoethane	11.018	107	26713	19.365 ug/l	96
64) Tetrachloroethene	10.646	164	38493	19.682 ug/l	99
65) Chlorobenzene	11.444	112	113821	19.597 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	39353	19.350 ug/l	98
67) Ethyl Benzene	11.517	91	197780	19.225 ug/l	100
68) m/p-Xylenes	11.627	106	149341	38.593 ug/l	98
69) o-Xylene	11.956	106	70486	19.444 ug/l	99
70) Styrene	11.969	104	119367	19.791 ug/l	99
71) Bromoform	12.133	173	22170	19.055 ug/l #	100
73) Isopropylbenzene	12.255	105	192163	19.688 ug/l	99
74) N-amyl acetate	12.072	43	47929	19.319 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	33436	19.410 ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	19345m	14.886 ug/l	
77) Bromobenzene	12.529	156	44137	19.442 ug/l	99
78) n-propylbenzene	12.596	91	231519	19.547 ug/l	100
79) 2-Chlorotoluene	12.682	91	132259	19.457 ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	157749	19.706 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	10784	18.445 ug/l	95
82) 4-Chlorotoluene	12.779	91	136654	19.394 ug/l	100
83) tert-Butylbenzene	12.999	119	139478	19.288 ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	156482	19.655 ug/l	100
85) sec-Butylbenzene	13.176	105	207160	19.613 ug/l	99
86) p-Isopropyltoluene	13.291	119	172280	19.534 ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	88325	19.668 ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	87772	19.784 ug/l	99
89) n-Butylbenzene	13.621	91	162070	19.527 ug/l	100
90) Hexachloroethane	13.883	117	35761	19.411 ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	76555	19.457 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	4895	17.963 ug/l	95
93) 1,2,4-Trichlorobenzene	14.925	180	45740	19.047 ug/l	100
94) Hexachlorobutadiene	15.023	225	28899	19.115 ug/l	98
95) Naphthalene	15.145	128	73713	18.532 ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	38421	18.936 ug/l	99

Sample Results: **VY021323.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021323.D
Acq On : 26 Feb 2025 11:44
Operator : SY/MD
Sample : VY0226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 00:36:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

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

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

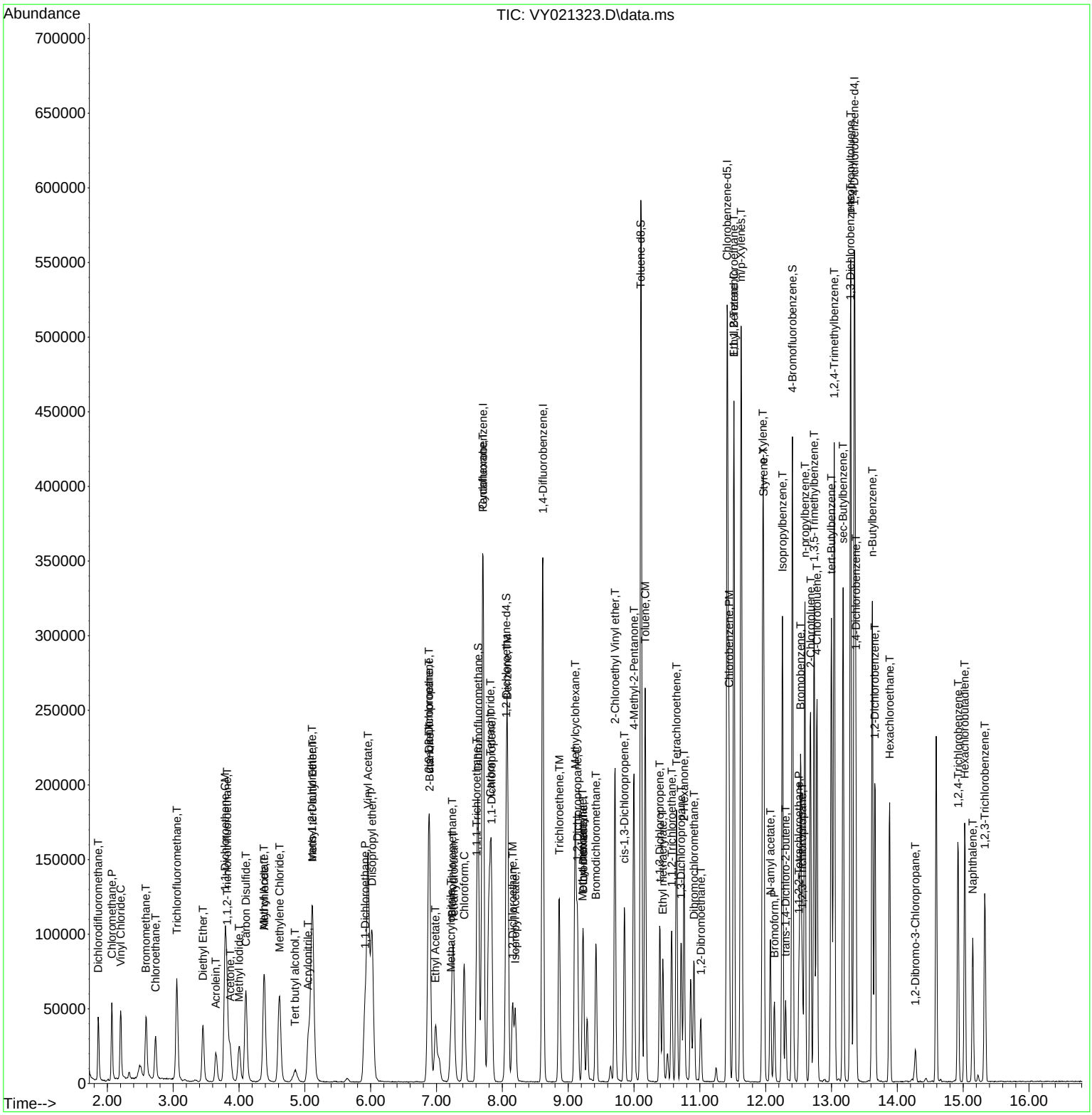
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021323.D
Acq On : 26 Feb 2025 11:44
Operator : SY/MD
Sample : VY0226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 00:36:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



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

Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085772.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:09 AM	MMDadoda	2/19/2025 12:44:43 PM	Peak Integrated by Software
VSTDICCC050	VN085773.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:14 AM	MMDadoda	2/19/2025 12:44:47 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	Vinyl Acetate	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	Vinyl Acetate	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,4-Dichlorobenzene	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	2,2-Dichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Allyl chloride	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Diethyl Ether	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Vinyl Acetate	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC020	VN085779.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:37 AM	MMDadoda	2/19/2025 12:45:09 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VN085780.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:42 AM	MMDadoda	2/19/2025 12:45:13 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn022425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085829.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:39:52 AM	MMDadoda	2/25/2025 2:29:16 PM	Peak Integrated by Software
VN0224WBS01	VN085832.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:39:56 AM	MMDadoda	2/25/2025 2:29:13 PM	Peak Integrated by Software
VN0224WBSD01	VN085833.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:40:00 AM	MMDadoda	2/25/2025 2:29:12 PM	Peak Integrated by Software
VSTDCCC050	VN085845.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:40:17 AM	MMDadoda	2/25/2025 2:29:08 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN022525	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085847.D	1,2,3-Trichloropropane	JOHN	2/26/2025 9:36:17 AM	MMDadoda	2/26/2025 1:46:18 PM	Peak Integrated by Software
VN0225WBS01	VN085850.D	1,2,3-Trichloropropane	JOHN	2/26/2025 9:36:22 AM	MMDadoda	2/26/2025 1:46:20 PM	Peak Integrated by Software
VSTDCCC050	VN085860.D	1,2,3-Trichloropropane	JOHN	2/26/2025 9:36:36 AM	MMDadoda	2/26/2025 1:46:25 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY022525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021309.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:25 AM	MMDadoda	2/26/2025 1:44:30 PM	Peak Integrated by Software
VSTDICC005	VY021309.D	Methacrylonitrile	Romaben	2/26/2025 10:45:25 AM	MMDadoda	2/26/2025 1:44:30 PM	Peak Integrated by Software
VSTDICC010	VY021310.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:29 AM	MMDadoda	2/26/2025 1:44:32 PM	Peak Integrated by Software
VSTDICC020	VY021311.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:33 AM	MMDadoda	2/26/2025 1:44:34 PM	Peak Integrated by Software
VSTDICCC050	VY021312.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:52 AM	MMDadoda	2/26/2025 1:44:36 PM	Peak Integrated by Software
VSTDICC150	VY021314.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:40 AM	MMDadoda	2/26/2025 1:44:39 PM	Peak Integrated by Software
VSTDICC100	VY021316.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:43 AM	MMDadoda	2/26/2025 1:44:41 PM	Peak Integrated by Software
VSTDICV050	VY021317.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:47 AM	MMDadoda	2/26/2025 1:44:42 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY022625	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021320.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:36:03 AM	MMDadoda	2/27/2025 12:12:27 PM	Peak Integrated by Software
VY0226SBS01	VY021322.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:35:58 AM	MMDadoda	2/27/2025 12:12:27 PM	Peak Integrated by Software
VY0226SBS01	VY021322.D	Methacrylonitrile	Romaben	2/27/2025 9:35:58 AM	MMDadoda	2/27/2025 12:12:27 PM	Peak Integrated by Software
VY0226SBSD01	VY021323.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:35:54 AM	MMDadoda	2/27/2025 12:12:28 PM	Peak Integrated by Software
Q1415-04	VY021337.D	Tert butyl alcohol	Romaben	2/27/2025 9:35:51 AM	MMDadoda	2/27/2025 12:12:29 PM	Peak Integrated by Software
VSTDCCC050	VY021344.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:36:17 AM	MMDadoda	2/27/2025 12:12:34 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY022725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021346.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:30 AM	SAM	2/28/2025 11:10:54 AM	Peak Integrated by Software
VY0227SBS01	VY021348.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:33 AM	SAM	2/28/2025 11:10:55 AM	Peak Integrated by Software
VY0227SBS01	VY021348.D	Methacrylonitrile	MMDadoda	2/28/2025 11:07:33 AM	SAM	2/28/2025 11:10:55 AM	Peak Integrated by Software
VSTDCCC050	VY021373.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:40 AM	SAM	2/28/2025 11:10:58 AM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/19/2025 1:34:51 PM		
SubDirectory	VN021825	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133068
Initial Calibration Stds	VP133070,VP133071,VP133072,VP133073,VP133074,VP133075
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133076
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085771.D	18 Feb 2025 10:35	JC\MD	Ok
2	VSTDICC100	VN085772.D	18 Feb 2025 11:09	JC\MD	Ok,M
3	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	JC\MD	Ok,M
4	VSTDICC020	VN085774.D	18 Feb 2025 11:56	JC\MD	Not Ok
5	VSTDICC010	VN085775.D	18 Feb 2025 12:20	JC\MD	Ok,M
6	VSTDICC005	VN085776.D	18 Feb 2025 12:43	JC\MD	Ok,M
7	VSTDICC001	VN085777.D	18 Feb 2025 13:07	JC\MD	Ok,M
8	IBLK	VN085778.D	18 Feb 2025 13:54	JC\MD	Ok
9	VSTDICC020	VN085779.D	18 Feb 2025 14:18	JC\MD	Ok,M
10	VSTDICV050	VN085780.D	18 Feb 2025 16:28	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/25/2025 2:29:22 PM		
SubDirectory	VN022425	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133126
Initial Calibration Stds	
CCC	VP133127,VP133128
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085828.D	24 Feb 2025 10:50	JC\MD	Ok
2	VSTDCCC050	VN085829.D	24 Feb 2025 11:37	JC\MD	Ok,M
3	VN0224MBL01	VN085830.D	24 Feb 2025 12:15	JC\MD	Ok
4	VN0224WBL01	VN085831.D	24 Feb 2025 12:39	JC\MD	Ok
5	VN0224WBS01	VN085832.D	24 Feb 2025 13:03	JC\MD	Ok,M
6	VN0224WBSD01	VN085833.D	24 Feb 2025 13:36	JC\MD	Ok,M
7	Q1405-02DL	VN085834.D	24 Feb 2025 14:00	JC\MD	Ok
8	Q1405-03	VN085835.D	24 Feb 2025 14:24	JC\MD	Ok
9	Q1405-04	VN085836.D	24 Feb 2025 14:49	JC\MD	Ok,M
10	Q1405-05	VN085837.D	24 Feb 2025 15:13	JC\MD	Ok
11	Q1405-11	VN085838.D	24 Feb 2025 15:37	JC\MD	Ok
12	Q1415-05	VN085839.D	24 Feb 2025 16:01	JC\MD	ReRun
13	Q1405-07	VN085840.D	24 Feb 2025 16:26	JC\MD	Ok
14	Q1405-08	VN085841.D	24 Feb 2025 16:50	JC\MD	Ok
15	Q1405-09	VN085842.D	24 Feb 2025 17:14	JC\MD	Ok
16	Q1405-10	VN085843.D	24 Feb 2025 17:38	JC\MD	Ok
17	Q1415-06	VN085844.D	24 Feb 2025 18:02	JC\MD	Ok
18	VSTDCCC050	VN085845.D	24 Feb 2025 18:26	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN022525

Review By	John Carlone	Review On	2/26/2025 9:38:40 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/26/2025 1:46:27 PM		
SubDirectory	VN022525	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133142
Initial Calibration Stds	
CCC	VP133144,VP133145
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085846.D	25 Feb 2025 10:11	JC\MD	Ok
2	VSTDCCC050	VN085847.D	25 Feb 2025 10:45	JC\MD	Ok,M
3	VN0225MBL01	VN085848.D	25 Feb 2025 11:19	JC\MD	Ok
4	VN0225WBL01	VN085849.D	25 Feb 2025 11:43	JC\MD	Ok
5	VN0225WBS01	VN085850.D	25 Feb 2025 12:14	JC\MD	Ok,M
6	VN0225WBSD01	VN085851.D	25 Feb 2025 12:48	JC\MD	Ok,M
7	IBLK	VN085852.D	25 Feb 2025 13:12	JC\MD	Ok
8	Q1415-05	VN085853.D	25 Feb 2025 13:36	JC\MD	Ok
9	VN0225MBS01	VN085854.D	25 Feb 2025 14:00	JC\MD	Ok,M
10	Q1395-01	VN085855.D	25 Feb 2025 14:24	JC\MD	Dilution
11	IBLK	VN085856.D	25 Feb 2025 14:49	JC\MD	Ok
12	IBLK	VN085857.D	25 Feb 2025 15:13	JC\MD	Ok
13	Q1395-01DL	VN085858.D	25 Feb 2025 15:37	JC\MD	Ok
14	IBLK	VN085859.D	25 Feb 2025 16:15	JC\MD	Ok
15	VSTDCCC050	VN085860.D	25 Feb 2025 16:42	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022525

Review By	Mahesh Dadoda	Review On	2/26/2025 1:45:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/26/2025 1:46:55 PM		
SubDirectory	VY022525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133154
Initial Calibration Stds	VP133137,VP133140,VP133143,VP133146,VP133147,VP133149
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021308.D	25 Feb 2025 12:10	SY/MD	Ok
2	VSTDICC005	VY021309.D	25 Feb 2025 12:40	SY/MD	Ok,M
3	VSTDICC010	VY021310.D	25 Feb 2025 13:03	SY/MD	Ok,M
4	VSTDICC020	VY021311.D	25 Feb 2025 13:26	SY/MD	Ok,M
5	VSTDICCC050	VY021312.D	25 Feb 2025 14:48	SY/MD	Ok,M
6	VSTDICC100	VY021313.D	25 Feb 2025 15:34	SY/MD	Not Ok
7	VSTDICC150	VY021314.D	25 Feb 2025 15:57	SY/MD	Ok,M
8	VIBLK	VY021315.D	25 Feb 2025 16:24	SY/MD	Ok
9	VSTDICC100	VY021316.D	25 Feb 2025 16:49	SY/MD	Ok,M
10	VSTDICV050	VY021317.D	25 Feb 2025 17:31	SY/MD	Ok,M
11	VIBLK	VY021318.D	25 Feb 2025 17:54	SY/MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022625

Review By	Mahesh Dadoda	Review On	2/27/2025 12:12:40 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM				
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y022525S.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133161
Initial Calibration Stds	
CCC	VP133162,VP133163
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021319.D	26 Feb 2025 09:12	SY/MD	Ok
2	VSTDCCC050	VY021320.D	26 Feb 2025 10:11	SY/MD	Ok,M
3	VY0226SBL01	VY021321.D	26 Feb 2025 10:50	SY/MD	Ok
4	VY0226SBS01	VY021322.D	26 Feb 2025 11:22	SY/MD	Ok,M
5	VY0226SBSD01	VY021323.D	26 Feb 2025 11:44	SY/MD	Ok,M
6	Q1416-01	VY021324.D	26 Feb 2025 12:20	SY/MD	ReRun
7	Q1413-02	VY021325.D	26 Feb 2025 12:43	SY/MD	ReRun
8	Q1418-01	VY021326.D	26 Feb 2025 13:07	SY/MD	Ok
9	Q1413-02RE	VY021327.D	26 Feb 2025 13:30	SY/MD	Confirms
10	Q1401-07	VY021328.D	26 Feb 2025 13:54	SY/MD	Ok
11	Q1401-08	VY021329.D	26 Feb 2025 14:17	SY/MD	Ok
12	Q1401-09	VY021330.D	26 Feb 2025 14:40	SY/MD	Ok
13	Q1382-19	VY021331.D	26 Feb 2025 15:04	SY/MD	Ok
14	Q1383-09	VY021332.D	26 Feb 2025 15:27	SY/MD	Ok
15	Q1411-03	VY021333.D	26 Feb 2025 15:51	SY/MD	Ok
16	Q1411-01	VY021334.D	26 Feb 2025 16:14	SY/MD	Not Ok
17	Q1415-02	VY021335.D	26 Feb 2025 16:37	SY/MD	Ok
18	Q1415-01	VY021336.D	26 Feb 2025 17:01	SY/MD	Ok
19	Q1415-04	VY021337.D	26 Feb 2025 17:24	SY/MD	Ok,M
20	Q1415-03	VY021338.D	26 Feb 2025 17:48	SY/MD	Ok
21	Q1420-07	VY021339.D	26 Feb 2025 18:11	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022625

Review By	Mahesh Dadoda	Review On	2/27/2025 12:12:40 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM				
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y022525S.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133161
Initial Calibration Stds	
CCC	VP133162,VP133163
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1420-03	VY021340.D	26 Feb 2025 18:34	SY/MD	Ok
23	Q1427-01	VY021341.D	26 Feb 2025 18:58	SY/MD	ReRun
24	Q1380-07MS	VY021342.D	26 Feb 2025 19:21	SY/MD	Ok,M
25	Q1380-08MSD	VY021343.D	26 Feb 2025 19:43	SY/MD	Ok,M
26	VSTDCCC050	VY021344.D	26 Feb 2025 20:06	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021345.D	27 Feb 2025 09:41	SY/MD	Ok
2	VSTDCCC050	VY021346.D	27 Feb 2025 10:13	SY/MD	Ok,M
3	VY0227SBL01	VY021347.D	27 Feb 2025 10:42	SY/MD	Ok
4	VY0227SBS01	VY021348.D	27 Feb 2025 11:18	SY/MD	Ok,M
5	VY0227SBSD01	VY021349.D	27 Feb 2025 11:40	SY/MD	Ok,M
6	Q1428-01	VY021350.D	27 Feb 2025 12:04	SY/MD	ReRun
7	Q1442-03	VY021351.D	27 Feb 2025 12:28	SY/MD	Ok
8	Q1416-01RE	VY021352.D	27 Feb 2025 12:51	SY/MD	Confirms
9	Q1428-01RE	VY021353.D	27 Feb 2025 13:14	SY/MD	Confirms
10	Q1418-01	VY021354.D	27 Feb 2025 13:38	SY/MD	Not Ok
11	Q1415-03RE	VY021355.D	27 Feb 2025 14:01	SY/MD	Confirms
12	Q1422-02	VY021356.D	27 Feb 2025 14:25	SY/MD	ReRun
13	Q1422-01	VY021357.D	27 Feb 2025 14:48	SY/MD	ReRun
14	Q1421-08	VY021358.D	27 Feb 2025 15:12	SY/MD	Not Ok
15	Q1421-07	VY021359.D	27 Feb 2025 15:35	SY/MD	ReRun
16	Q1421-01	VY021360.D	27 Feb 2025 15:58	SY/MD	Ok
17	Q1427-01RE	VY021361.D	27 Feb 2025 16:22	SY/MD	Confirms
18	Q1420-07	VY021362.D	27 Feb 2025 16:45	SY/MD	Ok
19	Q1411-03	VY021363.D	27 Feb 2025 17:09	SY/MD	Not Ok
20	Q1411-01	VY021364.D	27 Feb 2025 17:32	SY/MD	Ok
21	Q1440-01	VY021365.D	27 Feb 2025 17:55	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1448-01	VY021366.D	27 Feb 2025 18:19	SY/MD	ReRun
23	Q1448-02	VY021367.D	27 Feb 2025 18:42	SY/MD	ReRun
24	Q1448-03	VY021368.D	27 Feb 2025 19:06	SY/MD	ReRun
25	Q1448-04	VY021369.D	27 Feb 2025 19:29	SY/MD	Dilution
26	Q1448-05	VY021370.D	27 Feb 2025 19:52	SY/MD	ReRun
27	Q1421-02MS	VY021371.D	27 Feb 2025 20:15	SY/MD	Ok,M
28	Q1421-03MSD	VY021372.D	27 Feb 2025 20:38	SY/MD	Ok,M
29	VSTDCCC050	VY021373.D	27 Feb 2025 21:01	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/19/2025 1:34:51 PM		
SubDirectory	VN021825	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133068
Initial Calibration Stds	VP133070,VP133071,VP133072,VP133073,VP133074,VP133075
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133076
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085771.D	18 Feb 2025 10:35		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085772.D	18 Feb 2025 11:09	Comp.#43 is on Linear Regression	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	Comp.#56,58,70,86 is on Quadratic Regression	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085774.D	18 Feb 2025 11:56	Not used	JC\MD	Not Ok
5	VSTDICC010	VSTDICC010	VN085775.D	18 Feb 2025 12:20		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085776.D	18 Feb 2025 12:43	%D failed for Comp. #58 in 01PPB, 05PPB and 20PPB	JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085777.D	18 Feb 2025 13:07		JC\MD	Ok,M
8	IBLK	IBLK	VN085778.D	18 Feb 2025 13:54		JC\MD	Ok
9	VSTDICC020	VSTDICC020	VN085779.D	18 Feb 2025 14:18		JC\MD	Ok,M
10	VSTDICV050	ICVVN021825	VN085780.D	18 Feb 2025 16:28	ICV Failed for comp. #95	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/25/2025 2:29:22 PM		
SubDirectory	VN022425	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133126
Initial Calibration Stds	
CCC	VP133127,VP133128
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085828.D	24 Feb 2025 10:50		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085829.D	24 Feb 2025 11:37	V13516	JC\MD	Ok,M
3	VN0224MBL01	VN0224MBL01	VN085830.D	24 Feb 2025 12:15		JC\MD	Ok
4	VN0224WBL01	VN0224WBL01	VN085831.D	24 Feb 2025 12:39		JC\MD	Ok
5	VN0224WBS01	VN0224WBS01	VN085832.D	24 Feb 2025 13:03		JC\MD	Ok,M
6	VN0224WBSD01	VN0224WBSD01	VN085833.D	24 Feb 2025 13:36		JC\MD	Ok,M
7	Q1405-02DL	MW-04-021325DL	VN085834.D	24 Feb 2025 14:00	vial B pH<2	JC\MD	Ok
8	Q1405-03	MW-20D-021325	VN085835.D	24 Feb 2025 14:24	vial B pH<2	JC\MD	Ok
9	Q1405-04	MW-20D-FD-021325	VN085836.D	24 Feb 2025 14:49	vial B pH<2	JC\MD	Ok,M
10	Q1405-05	MW-22-021925	VN085837.D	24 Feb 2025 15:13	vial B pH<2	JC\MD	Ok
11	Q1405-11	TB-02-021325	VN085838.D	24 Feb 2025 15:37	vial A pH<2 TB	JC\MD	Ok
12	Q1415-05	FB02222025	VN085839.D	24 Feb 2025 16:01	vial A pH<2 FB;hit of com.#16	JC\MD	ReRun
13	Q1405-07	MW-26-021825	VN085840.D	24 Feb 2025 16:26	vial A pH<2	JC\MD	Ok
14	Q1405-08	MOS-11R-021325	VN085841.D	24 Feb 2025 16:50	vial A pH<2	JC\MD	Ok
15	Q1405-09	MOS-13-021925	VN085842.D	24 Feb 2025 17:14	vial A pH<2	JC\MD	Ok
16	Q1405-10	MW-30S-021825	VN085843.D	24 Feb 2025 17:38	vial A pH<2	JC\MD	Ok
17	Q1415-06	B-173-GW01	VN085844.D	24 Feb 2025 18:02	vial A pH<2	JC\MD	Ok
18	VSTDCCC050	VSTDCCC050EC	VN085845.D	24 Feb 2025 18:26		JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/25/2025 2:29:22 PM		
SubDirectory	VN022425	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133126
Initial Calibration Stds	
CCC	VP133127,VP133128
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN022525

Review By	John Carlone	Review On	2/26/2025 9:38:40 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/26/2025 1:46:27 PM		
SubDirectory	VN022525	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133142
Initial Calibration Stds	
CCC	VP133144,VP133145
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085846.D	25 Feb 2025 10:11		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085847.D	25 Feb 2025 10:45	V13516	JC\MD	Ok,M
3	VN0225MBL01	VN0225MBL01	VN085848.D	25 Feb 2025 11:19		JC\MD	Ok
4	VN0225WBL01	VN0225WBL01	VN085849.D	25 Feb 2025 11:43		JC\MD	Ok
5	VN0225WBS01	VN0225WBS01	VN085850.D	25 Feb 2025 12:14		JC\MD	Ok,M
6	VN0225WBSD01	VN0225WBSD01	VN085851.D	25 Feb 2025 12:48		JC\MD	Ok,M
7	IBLK	IBLK	VN085852.D	25 Feb 2025 13:12		JC\MD	Ok
8	Q1415-05	FB02222025	VN085853.D	25 Feb 2025 13:36	vial B pH<2 FB	JC\MD	Ok
9	VN0225MBS01	VN0225MBS01	VN085854.D	25 Feb 2025 14:00		JC\MD	Ok,M
10	Q1395-01	BEL-25-0005	VN085855.D	25 Feb 2025 14:24	Need 10X	JC\MD	Dilution
11	IBLK	IBLK	VN085856.D	25 Feb 2025 14:49		JC\MD	Ok
12	IBLK	IBLK	VN085857.D	25 Feb 2025 15:13		JC\MD	Ok
13	Q1395-01DL	BEL-25-0005DL	VN085858.D	25 Feb 2025 15:37		JC\MD	Ok
14	IBLK	IBLK	VN085859.D	25 Feb 2025 16:15		JC\MD	Ok
15	VSTDCCC050	VSTDCCC050EC	VN085860.D	25 Feb 2025 16:42		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022525

Review By	Mahesh Dadoda	Review On	2/26/2025 1:45:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/26/2025 1:46:55 PM		
SubDirectory	VY022525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133154
Initial Calibration Stds	VP133137,VP133140,VP133143,VP133146,VP133147,VP133149
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021308.D	25 Feb 2025 12:10		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021309.D	25 Feb 2025 12:40		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021310.D	25 Feb 2025 13:03		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021311.D	25 Feb 2025 13:26	Acrolein fail for method	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021312.D	25 Feb 2025 14:48		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021313.D	25 Feb 2025 15:34	Not used	SY/MD	Not Ok
7	VSTDICC150	VSTDICC150	VY021314.D	25 Feb 2025 15:57		SY/MD	Ok,M
8	VIBLK	VIBLK	VY021315.D	25 Feb 2025 16:24		SY/MD	Ok
9	VSTDICC100	VSTDICC100	VY021316.D	25 Feb 2025 16:49		SY/MD	Ok,M
10	VSTDICV050	ICVVY022525	VY021317.D	25 Feb 2025 17:31	ICV Failed for comp. #10	SY/MD	Ok,M
11	VIBLK	VIBLK	VY021318.D	25 Feb 2025 17:54		SY/MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022625

Review By	Mahesh Dadoda	Review On	2/27/2025 12:12:40 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM		
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y022525S.m

STD. NAME	STD REF.#
Tune/Reschk	VP133161
Initial Calibration Stds	
CCC	VP133162,VP133163
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021319.D	26 Feb 2025 09:12		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021320.D	26 Feb 2025 10:11		SY/MD	Ok,M
3	VY0226SBL01	VY0226SBL01	VY021321.D	26 Feb 2025 10:50		SY/MD	Ok
4	VY0226SBS01	VY0226SBS01	VY021322.D	26 Feb 2025 11:22		SY/MD	Ok,M
5	VY0226SBSD01	VY0226SBSD01	VY021323.D	26 Feb 2025 11:44		SY/MD	Ok,M
6	Q1416-01	OK-01-022425	VY021324.D	26 Feb 2025 12:20	vial-A ISTD Fail	SY/MD	ReRun
7	Q1413-02	BU-2-022125	VY021325.D	26 Feb 2025 12:43	vial-A ISTD Fail	SY/MD	ReRun
8	Q1418-01	TR-06-02242025	VY021326.D	26 Feb 2025 13:07	vial-A ISTD Fail	SY/MD	Ok
9	Q1413-02RE	BU-2-022125RE	VY021327.D	26 Feb 2025 13:30	vial-B ISTD Fail	SY/MD	Confirms
10	Q1401-07	BP-VPB-192-GW-825-8	VY021328.D	26 Feb 2025 13:54	vial-A	SY/MD	Ok
11	Q1401-08	BP-VPB-192-GW-860-8	VY021329.D	26 Feb 2025 14:17	vial-A	SY/MD	Ok
12	Q1401-09	BP-VPB-192-GW-880-8	VY021330.D	26 Feb 2025 14:40	vial-A	SY/MD	Ok
13	Q1382-19	OU4-PCS-TC-10-02172	VY021331.D	26 Feb 2025 15:04	vial-A	SY/MD	Ok
14	Q1383-09	OU4-PCS-TC-15-02172	VY021332.D	26 Feb 2025 15:27	vial-B	SY/MD	Ok
15	Q1411-03	HR-03-02212025	VY021333.D	26 Feb 2025 15:51	vial-A	SY/MD	Ok
16	Q1411-01	HR-02-02212025	VY021334.D	26 Feb 2025 16:14	vial-A NOT PURGE	SY/MD	Not Ok
17	Q1415-02	B-172-SB01	VY021335.D	26 Feb 2025 16:37	vial-A	SY/MD	Ok
18	Q1415-01	B-163-SB01	VY021336.D	26 Feb 2025 17:01	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022625

Review By	Mahesh Dadoda	Review On	2/27/2025 12:12:40 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM		
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y022525S.m

STD. NAME	STD REF.#
Tune/Reschk	VP133161
Initial Calibration Stds	
CCC	VP133162,VP133163
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1415-04	B-172-SB02	VY021337.D	26 Feb 2025 17:24	vial-A	SY/MD	Ok,M
20	Q1415-03	B-163-SB02	VY021338.D	26 Feb 2025 17:48	vial-A Internal Standard Fail	SY/MD	Ok
21	Q1420-07	TP-2-WC-VOC	VY021339.D	26 Feb 2025 18:11	vial-A Internal Standard Fail	SY/MD	ReRun
22	Q1420-03	TP-1-WC-VOC	VY021340.D	26 Feb 2025 18:34	vial-A	SY/MD	Ok
23	Q1427-01	VNJ-227	VY021341.D	26 Feb 2025 18:58	vial-A Surrogate Fail	SY/MD	ReRun
24	Q1380-07MS	BP-VPB-192-GW-725-7	VY021342.D	26 Feb 2025 19:21	vial-B	SY/MD	Ok,M
25	Q1380-08MSD	BP-VPB-192-GW-725-7	VY021343.D	26 Feb 2025 19:43	vial-B Internal Standard Fail	SY/MD	Ok,M
26	VSTDCCC050	VSTDCCC050EC	VY021344.D	26 Feb 2025 20:06		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021345.D	27 Feb 2025 09:41		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021346.D	27 Feb 2025 10:13		SY/MD	Ok,M
3	VY0227SBL01	VY0227SBL01	VY021347.D	27 Feb 2025 10:42		SY/MD	Ok
4	VY0227SBS01	VY0227SBS01	VY021348.D	27 Feb 2025 11:18		SY/MD	Ok,M
5	VY0227SBSD01	VY0227SBSD01	VY021349.D	27 Feb 2025 11:40		SY/MD	Ok,M
6	Q1428-01	NB-07-022525	VY021350.D	27 Feb 2025 12:04	Vial-A ISTD Fail	SY/MD	ReRun
7	Q1442-03	351	VY021351.D	27 Feb 2025 12:28	Vial-A	SY/MD	Ok
8	Q1416-01RE	OK-01-022425RE	VY021352.D	27 Feb 2025 12:51	Vial-B ISTD Fail	SY/MD	Confirms
9	Q1428-01RE	NB-07-022525RE	VY021353.D	27 Feb 2025 13:14	Vial-B Internal Standard Fail	SY/MD	Confirms
10	Q1418-01	TR-06-02242025	VY021354.D	27 Feb 2025 13:38	Vial-B Not purge	SY/MD	Not Ok
11	Q1415-03RE	B-163-SB02RE	VY021355.D	27 Feb 2025 14:01	Vial-B Internal standard fail;Not match for com.#20	SY/MD	Confirms
12	Q1422-02	B-154-SB02	VY021356.D	27 Feb 2025 14:25	Vial-A Internal standard fail	SY/MD	ReRun
13	Q1422-01	B-154-SB01	VY021357.D	27 Feb 2025 14:48	Vial-A Internal standard fail	SY/MD	ReRun
14	Q1421-08	P001-CLAY-CF01-02	VY021358.D	27 Feb 2025 15:12	Vial-B Typo	SY/MD	Not Ok
15	Q1421-07	P001-CLAY-CF01-02	VY021359.D	27 Feb 2025 15:35	Vial-A Internal standard fail	SY/MD	ReRun
16	Q1421-01	P001-CLAY-CF01-01	VY021360.D	27 Feb 2025 15:58	Vial-A Internal standard fail	SY/MD	Ok
17	Q1427-01RE	VNJ-227RE	VY021361.D	27 Feb 2025 16:22	Vial-B Internal standard fail;Surrogate fail	SY/MD	Confirms

Alliance TECHNICAL GROUP
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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1420-07	TP-2-WC-VOC	VY021362.D	27 Feb 2025 16:45	Vial-B	SY/MD	Ok
19	Q1411-03	HR-03-02212025	VY021363.D	27 Feb 2025 17:09	Vial-B Not purge	SY/MD	Not Ok
20	Q1411-01	HR-02-02212025	VY021364.D	27 Feb 2025 17:32	Vial-B Internal standard fail	SY/MD	Ok
21	Q1440-01	OR-02-022625	VY021365.D	27 Feb 2025 17:55	Vial-A Internal standard fail	SY/MD	ReRun
22	Q1448-01	PSP1	VY021366.D	27 Feb 2025 18:19	Vial-A Internal standard fail	SY/MD	ReRun
23	Q1448-02	P1	VY021367.D	27 Feb 2025 18:42	Vial-A Internal standard fail	SY/MD	ReRun
24	Q1448-03	P2	VY021368.D	27 Feb 2025 19:06	Vial-A Internal standard fail	SY/MD	ReRun
25	Q1448-04	P3	VY021369.D	27 Feb 2025 19:29	Vial-A Internal standard fail;Need MeOH	SY/MD	Dilution
26	Q1448-05	P4	VY021370.D	27 Feb 2025 19:52	Vial-A Internal standard fail	SY/MD	ReRun
27	Q1421-02MS	P001-CLAY-CF01-01M	VY021371.D	27 Feb 2025 20:15	Vial-A Internal standard fail	SY/MD	Ok,M
28	Q1421-03MSD	P001-CLAY-CF01-01M	VY021372.D	27 Feb 2025 20:38	Vial-A Internal standard fail	SY/MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VY021373.D	27 Feb 2025 21:01		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1415	**OrderDate:**	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	**B-163-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260D			02/26/25	
Q1415-02	**B-172-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260D			02/26/25	
Q1415-03	**B-163-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260D			02/26/25	
Q1415-03RE	**B-163-SB02RE**	**SOIL**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260D			02/27/25	
Q1415-04	**B-172-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260D			02/26/25	
Q1415-05	**FB02222025**	**Water**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260-Low			02/25/25	
Q1415-06	**B-173-GW01**	**Water**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260-Low			02/24/25	