

Hit Summary Sheet
SW-846

SDG No.: Q1574
Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q1574-01	WC1 WC1	SOIL	Trichlorofluoromethane	1.20	J	1.20	5.10	ug/Kg
			Total Voc :	1.20				
			Total Concentration:	1.20				
Client ID: Q1574-01RE	WC1RE WC1RE	SOIL	Trichlorofluoromethane	1.60	J	1.20	5.00	ug/Kg
Q1574-01RE	WC1RE	SOIL	Acetone	6.60	JQ	4.80	25.1	ug/Kg
			Total Voc :	8.20				
			Total Concentration:	8.20				



SAMPLE DATA

Report of Analysis

Client:	G Environmental		Date Collected:	03/12/25	
Project:	Ave L		Date Received:	03/14/25	
Client Sample ID:	WC1		SDG No.:	Q1574	
Lab Sample ID:	Q1574-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	98	
Sample Wt/Vol:	5.02	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
VY021549.D	1		03/17/25 14:26	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.10	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.10	ug/Kg
75-01-4	Vinyl Chloride	0.80	U	0.80	5.10	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.10	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	J	1.20	5.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.10	ug/Kg
67-64-1	Acetone	4.80	UQ	4.80	25.4	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.74	U	0.74	5.10	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.10	ug/Kg
75-09-2	Methylene Chloride	3.60	U	3.60	10.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.87	U	0.87	5.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.10	ug/Kg
110-82-7	Cyclohexane	0.80	U	0.80	5.10	ug/Kg
78-93-3	2-Butanone	6.60	U	6.60	25.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.99	U	0.99	5.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.76	U	0.76	5.10	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.10	ug/Kg
67-66-3	Chloroform	0.85	U	0.85	5.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.95	U	0.95	5.10	ug/Kg
108-87-2	Methylcyclohexane	0.92	U	0.92	5.10	ug/Kg
71-43-2	Benzene	0.80	U	0.80	5.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.80	U	0.80	5.10	ug/Kg
79-01-6	Trichloroethene	0.82	U	0.82	5.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.92	U	0.92	5.10	ug/Kg
75-27-4	Bromodichloromethane	0.79	U	0.79	5.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.4	ug/Kg
108-88-3	Toluene	0.79	U	0.79	5.10	ug/Kg

Report of Analysis

Client:	G Environmental		Date Collected:	03/12/25	
Project:	Ave L		Date Received:	03/14/25	
Client Sample ID:	WC1		SDG No.:	Q1574	
Lab Sample ID:	Q1574-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	98	
Sample Wt/Vol:	5.02	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
VY021549.D	1		03/17/25 14:26	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.66	U	0.66	5.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.63	U	0.63	5.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.94	U	0.94	5.10	ug/Kg
591-78-6	2-Hexanone	3.80	U	3.80	25.4	ug/Kg
124-48-1	Dibromochloromethane	0.88	U	0.88	5.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.89	U	0.89	5.10	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.10	ug/Kg
108-90-7	Chlorobenzene	0.92	U	0.92	5.10	ug/Kg
100-41-4	Ethyl Benzene	0.68	U	0.68	5.10	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.2	ug/Kg
95-47-6	o-Xylene	0.83	U	0.83	5.10	ug/Kg
100-42-5	Styrene	0.72	U	0.72	5.10	ug/Kg
75-25-2	Bromoform	0.87	U	0.87	5.10	ug/Kg
98-82-8	Isopropylbenzene	0.79	U	0.79	5.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		70 (63) - 130 (155)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		70 (70) - 130 (134)	107%	SPK: 50
2037-26-5	Toluene-d8	45.9		70 (74) - 130 (123)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	30.1	*	70 (38) - 130 (136)	60%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	98900	7.707			
540-36-3	1,4-Difluorobenzene	155000	8.616			
3114-55-4	Chlorobenzene-d5	117000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	33500	13.347			

Report of Analysis

Client:	G Environmental		Date Collected:	03/12/25	
Project:	Ave L		Date Received:	03/14/25	
Client Sample ID:	WC1		SDG No.:	Q1574	
Lab Sample ID:	Q1574-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	98	
Sample Wt/Vol:	5.02	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
VY021549.D	1		03/17/25 14:26	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental		Date Collected:	03/12/25	
Project:	Ave L		Date Received:	03/14/25	
Client Sample ID:	WC1RE		SDG No.:	Q1574	
Lab Sample ID:	Q1574-01RE		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	98	
Sample Wt/Vol:	5.08	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
VY021552.D	1		03/17/25 15:55	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.60	J	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	6.60	JQ	4.80	25.1	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.60	U	6.60	25.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.1	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Report of Analysis

Client:	G Environmental		Date Collected:	03/12/25	
Project:	Ave L		Date Received:	03/14/25	
Client Sample ID:	WC1RE		SDG No.:	Q1574	
Lab Sample ID:	Q1574-01RE		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	98	
Sample Wt/Vol:	5.08	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
VY021552.D	1		03/17/25 15:55	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.1	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.7		70 (63) - 130 (155)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		70 (70) - 130 (134)	108%	SPK: 50
2037-26-5	Toluene-d8	46.9		70 (74) - 130 (123)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	32.8	*	70 (38) - 130 (136)	66%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	141000	7.707			
540-36-3	1,4-Difluorobenzene	241000	8.616			
3114-55-4	Chlorobenzene-d5	191000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	59400	13.346			

Report of Analysis

Client:	G Environmental		Date Collected:	03/12/25	
Project:	Ave L		Date Received:	03/14/25	
Client Sample ID:	WC1RE		SDG No.:	Q1574	
Lab Sample ID:	Q1574-01RE		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	98	
Sample Wt/Vol:	5.08	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
VY021552.D	1		03/17/25 15:55	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: **Q1574**

Client: **G Environmental**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1574-01	WC1	1,2-Dichloroethane-d4	50	49.0	98	70 (63)	130 (155)
		Dibromofluoromethane	50	53.6	107	70 (70)	130 (134)
		Toluene-d8	50	45.9	92	70 (74)	130 (123)
		4-Bromofluorobenzene	50	30.1	60 *	70 (38)	130 (136)
Q1574-01RE	WC1RE	1,2-Dichloroethane-d4	50	54.7	109	70 (63)	130 (155)
		Dibromofluoromethane	50	53.9	108	70 (70)	130 (134)
		Toluene-d8	50	46.9	94	70 (74)	130 (123)
		4-Bromofluorobenzene	50	32.8	66 *	70 (38)	130 (136)
VY0317SBL01	VY0317SBL01	1,2-Dichloroethane-d4	50	52.5	105	70 (63)	130 (155)
		Dibromofluoromethane	50	50.1	100	70 (70)	130 (134)
		Toluene-d8	50	48.2	96	70 (74)	130 (123)
		4-Bromofluorobenzene	50	41.1	82	70 (38)	130 (136)
VY0317SBS01	VY0317SBS01	1,2-Dichloroethane-d4	50	52.0	104	70 (63)	130 (155)
		Dibromofluoromethane	50	51.5	103	70 (70)	130 (134)
		Toluene-d8	50	50.2	100	70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.7	101	70 (38)	130 (136)
VY0317SBSD01	VY0317SBSD01	1,2-Dichloroethane-d4	50	51.5	103	70 (63)	130 (155)
		Dibromofluoromethane	50	50.8	102	70 (70)	130 (134)
		Toluene-d8	50	50.3	101	70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.3	101	70 (38)	130 (136)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1574

Client: G Environmental

Analytical Method: SW8260D

Datafile : VY021545.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0317SBS01	Dichlorodifluoromethane	20	19.3	ug/Kg	97			40 (64)	160 (136)	
	Chloromethane	20	19.8	ug/Kg	99			40 (70)	160 (130)	
	Vinyl chloride	20	21.2	ug/Kg	106			70 (72)	130 (129)	
	Bromomethane	20	20.4	ug/Kg	102			40 (58)	160 (141)	
	Chloroethane	20	23.1	ug/Kg	116			40 (69)	160 (130)	
	Trichlorofluoromethane	20	24.4	ug/Kg	122			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.4	ug/Kg	107			70 (81)	130 (123)	
	1,1-Dichloroethene	20	20.9	ug/Kg	104			70 (79)	130 (121)	
	Acetone	100	170	ug/Kg	170		*	40 (60)	160 (131)	
	Carbon disulfide	20	18.8	ug/Kg	94			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	21.6	ug/Kg	108			70 (77)	130 (129)	
	Methyl Acetate	20	22.9	ug/Kg	115			70 (69)	130 (149)	
	Methylene Chloride	20	21.1	ug/Kg	106			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.9	ug/Kg	100			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.7	ug/Kg	104			70 (82)	130 (123)	
	Cyclohexane	20	19.0	ug/Kg	95			70 (76)	130 (122)	
	2-Butanone	100	140	ug/Kg	140			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.8	ug/Kg	104			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	Bromochloromethane	20	20.7	ug/Kg	104			70 (80)	130 (127)	
	Chloroform	20	21.3	ug/Kg	106			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104			70 (80)	130 (126)	
	Methylcyclohexane	20	19.3	ug/Kg	97			70 (77)	130 (123)	
	Benzene	20	20.9	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.9	ug/Kg	110			70 (81)	130 (126)	
	Trichloroethene	20	20.9	ug/Kg	104			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.2	ug/Kg	106			70 (83)	130 (122)	
	Bromodichloromethane	20	21.3	ug/Kg	106			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	120	ug/Kg	120			40 (70)	160 (135)	
	Toluene	20	20.7	ug/Kg	104			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	21.4	ug/Kg	107			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	21.5	ug/Kg	108			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	22.3	ug/Kg	112			70 (82)	130 (125)	
	2-Hexanone	100	130	ug/Kg	130			40 (66)	160 (138)	
	Dibromochloromethane	20	22.1	ug/Kg	111			70 (79)	130 (125)	
	1,2-Dibromoethane	20	21.4	ug/Kg	107			70 (80)	130 (125)	
	Tetrachloroethene	20	24.4	ug/Kg	122			70 (83)	130 (125)	
	Chlorobenzene	20	20.6	ug/Kg	103			70 (84)	130 (122)	
	Ethyl Benzene	20	20.0	ug/Kg	100			70 (82)	130 (124)	
	m/p-Xylenes	40	40.8	ug/Kg	102			70 (83)	130 (124)	
	o-Xylene	20	20.1	ug/Kg	101			70 (83)	130 (123)	
	Styrene	20	20.5	ug/Kg	103			70 (82)	130 (124)	
	Bromoform	20	22.5	ug/Kg	113			70 (75)	130 (127)	
	Isopropylbenzene	20	19.9	ug/Kg	100			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	21.1	ug/Kg	106			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.4	ug/Kg	102			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.0	ug/Kg	105			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1574

Client: G Environmental

Analytical Method: SW8260D

Datafile : VY021545.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0317SBS01	1,2-Dibromo-3-Chloropropane	20	20.9	ug/Kg	104			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	20.1	ug/Kg	101			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	20.8	ug/Kg	104			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1574

Client: G Environmental

Analytical Method: SW8260D

Datafile : VY021546.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0317SBSD01	Dichlorodifluoromethane	20	16.2	ug/Kg	81	18		40 (64)	160 (136)	30 (20)
	Chloromethane	20	17.0	ug/Kg	85	15		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.2	ug/Kg	91	15		70 (72)	130 (129)	30 (20)
	Bromomethane	20	17.8	ug/Kg	89	14		40 (58)	160 (141)	30 (20)
	Chloroethane	20	18.4	ug/Kg	92	23		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	17.8	ug/Kg	89	31	*	40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	17.9	ug/Kg	90	17		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	17.0	ug/Kg	85	20		70 (79)	130 (121)	30 (20)
	Acetone	100	120	ug/Kg	120	34	*	40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	15.7	ug/Kg	79	17		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	17.9	ug/Kg	90	18		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	20.0	ug/Kg	100	14		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	18.1	ug/Kg	91	15		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	17.3	ug/Kg	86	15		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	18.1	ug/Kg	91	13		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	15.8	ug/Kg	79	18		70 (76)	130 (122)	30 (20)
	2-Butanone	100	100	ug/Kg	100	33	*	40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	17.5	ug/Kg	88	17		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	17.6	ug/Kg	88	16		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.0	ug/Kg	100	4		70 (80)	130 (127)	30 (20)
	Chloroform	20	18.1	ug/Kg	91	15		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	17.5	ug/Kg	88	17		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	16.1	ug/Kg	81	18		70 (77)	130 (123)	30 (20)
	Benzene	20	17.6	ug/Kg	88	17		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	18.4	ug/Kg	92	18		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	18.0	ug/Kg	90	14		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	18.0	ug/Kg	90	16		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	18.4	ug/Kg	92	14		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	95.8	ug/Kg	96	22		40 (70)	160 (135)	30 (20)
	Toluene	20	17.4	ug/Kg	87	18		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	18.4	ug/Kg	92	15		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	18.2	ug/Kg	91	17		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	19.2	ug/Kg	96	15		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	100	ug/Kg	100	26		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	18.7	ug/Kg	94	17		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	18.2	ug/Kg	91	16		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.6	ug/Kg	103	17		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	17.9	ug/Kg	90	13		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	17.2	ug/Kg	86	15		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	34.6	ug/Kg	86	17		70 (83)	130 (124)	30 (20)
	o-Xylene	20	17.4	ug/Kg	87	15		70 (83)	130 (123)	30 (20)
	Styrene	20	17.6	ug/Kg	88	16		70 (82)	130 (124)	30 (20)
	Bromoform	20	18.8	ug/Kg	94	18		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	16.7	ug/Kg	84	17		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	17.5	ug/Kg	88	19		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	17.1	ug/Kg	86	15		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	17.4	ug/Kg	87	16		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	17.6	ug/Kg	88	18		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1574

Client: G Environmental

Analytical Method: SW8260D

Datafile : VY021546.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0317SBSD01	1,2-Dibromo-3-Chloropropane	20	18.1	ug/Kg	91	13		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	17.1	ug/Kg	86	16		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	17.8	ug/Kg	89	16		70 (70)	130 (137)	30 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0317SBL01

Lab Name: CHEMTECH

Contract: GENV01

Lab Code: CHEM Case No.: Q1574

SAS No.: Q1574 SDG NO.: Q1574

Lab File ID: VY021544.D

Lab Sample ID: VY0317SBL01

Date Analyzed: 03/17/2025

Time Analyzed: 10:39

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
VY0317SBS01	VY0317SBS01	VY021545.D	03/17/2025
VY0317SBSD01	VY0317SBSD01	VY021546.D	03/17/2025
WC1	Q1574-01	VY021549.D	03/17/2025
WC1RE	Q1574-01RE	VY021552.D	03/17/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q1574 SAS No.: Q1574 SDG NO.: Q1574
Lab File ID: VY021395.D BFB Injection Date: 03/04/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:52
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.6
75	30.0 - 60.0% of mass 95	54.3
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	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	77.8
175	5.0 - 9.0% of mass 174	6.6 (8.4) 1
176	95.0 - 101.0% of mass 174	75.7 (97.2) 1
177	5.0 - 9.0% of mass 176	5 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC010	VSTDIC010	VY021397.D	03/04/2025	09:46
VSTDIC020	VSTDIC020	VY021398.D	03/04/2025	10:09
VSTDIC050	VSTDIC050	VY021399.D	03/04/2025	10:30
VSTDIC100	VSTDIC100	VY021400.D	03/04/2025	11:06
VSTDIC150	VSTDIC150	VY021401.D	03/04/2025	11:29
VSTDIC005	VSTDIC005	VY021403.D	03/04/2025	12:15

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q1574 SAS No.: Q1574 SDG NO.: Q1574
Lab File ID: VY021542.D BFB Injection Date: 03/17/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:26
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.9
75	30.0 - 60.0% of mass 95	53.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	80.8
175	5.0 - 9.0% of mass 174	6.4 (7.9) 1
176	95.0 - 101.0% of mass 174	77.4 (95.8) 1
177	5.0 - 9.0% of mass 176	5.2 (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	VY021543.D	03/17/2025	10:04
VY0317SBL01	VY0317SBL01	VY021544.D	03/17/2025	10:39
VY0317SBS01	VY0317SBS01	VY021545.D	03/17/2025	12:49
VY0317SBSD01	VY0317SBSD01	VY021546.D	03/17/2025	13:12
WC1	Q1574-01	VY021549.D	03/17/2025	14:26
WC1RE	Q1574-01RE	VY021552.D	03/17/2025	15:55

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q1574 SAS No.: Q1574 SDG NO.: Q1574
Lab File ID: VY021543.D Date Analyzed: 03/17/2025
Instrument ID: MSVOA_Y Time Analyzed: 10:04
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	202760	7.71	316994	8.62	284592	11.42
UPPER LIMIT	405520	8.207	633988	9.116	569184	11.92
LOWER LIMIT	101380	7.207	158497	8.116	142296	10.92
EPA SAMPLE NO.						
WC1	98896 *	7.71	155221 *	8.62	116517 *	11.41
WC1RE	140963	7.71	240910	8.62	190816	11.41
VY0317SBL01	272314	7.71	493002	8.62	420924	11.41
VY0317SBS01	209203	7.71	320346	8.62	284395	11.42
VY0317SBSD01	219903	7.71	338794	8.62	299964	11.41

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GENV01
 Lab Code: CHEM Case No.: Q1574 SAS No.: Q1574 SDG NO.: Q1574
 Lab File ID: VY021543.D Date Analyzed: 03/17/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:04
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	146377	13.346				
UPPER LIMIT	292754	13.846				
LOWER LIMIT	73188.5	12.846				
EPA SAMPLE NO.						
WC1	33476 *	13.35				
WC1RE	59425 *	13.35				
VY0317SBL01	158203	13.35				
VY0317SBS01	146283	13.35				
VY0317SBSD01	155756	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

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Ave L	Date Received:	
Client Sample ID:	VY0317SBL01	SDG No.:	Q1574
Lab Sample ID:	VY0317SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021544.D	1		03/17/25 10:39	VY031725

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		70 (63) - 130 (155)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.1		70 (38) - 130 (136)	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	272000	7.707			
540-36-3	1,4-Difluorobenzene	493000	8.616			
3114-55-4	Chlorobenzene-d5	421000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	158000	13.347			

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Ave L		Date Received:	
Client Sample ID:	VY0317SBL01		SDG No.:	Q1574
Lab Sample ID:	VY0317SBL01		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
VY021544.D	1		03/17/25 10:39	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.8		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.2		0.79	5.00	ug/Kg
74-83-9	Bromomethane	20.4		1.10	5.00	ug/Kg
75-00-3	Chloroethane	23.1		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	24.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.9		1.00	5.00	ug/Kg
67-64-1	Acetone	170		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	22.9		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	21.1		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.7		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.0		0.79	5.00	ug/Kg
78-93-3	2-Butanone	140		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.6		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.7		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.3		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.8		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.3		0.91	5.00	ug/Kg
71-43-2	Benzene	20.9		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.9		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.2		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		3.60	25.0	ug/Kg
108-88-3	Toluene	20.7		0.78	5.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Ave L	Date Received:	
Client Sample ID:	VY0317SBS01	SDG No.:	Q1574
Lab Sample ID:	VY0317SBS01	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
VY021545.D	1		03/17/25 12:49	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	21.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.3		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	130		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	22.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.4		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	24.4		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.0		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.1		0.82	5.00	ug/Kg
100-42-5	Styrene	20.5		0.71	5.00	ug/Kg
75-25-2	Bromoform	22.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.9		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.0		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.4		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.0		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.9		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.1		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.8		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.0		70 (63) - 130 (155)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		70 (70) - 130 (134)	103%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (74) - 130 (123)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		70 (38) - 130 (136)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	209000	7.707			
540-36-3	1,4-Difluorobenzene	320000	8.616			
3114-55-4	Chlorobenzene-d5	284000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.347			

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Ave L		Date Received:	
Client Sample ID:	VY0317SBS01		SDG No.:	Q1574
Lab Sample ID:	VY0317SBS01		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
VY021545.D	1		03/17/25 12:49	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Ave L	Date Received:	
Client Sample ID:	VY0317SBSD01	SDG No.:	Q1574
Lab Sample ID:	VY0317SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021546.D	1		03/17/25 13:12	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	16.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	17.0		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.2		0.79	5.00	ug/Kg
74-83-9	Bromomethane	17.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	18.4		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	17.8		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	17.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	17.0		1.00	5.00	ug/Kg
67-64-1	Acetone	120		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	15.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	17.9		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	18.1		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.3		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	15.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	100		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	17.5		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	17.6		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.0		1.20	5.00	ug/Kg
67-66-3	Chloroform	18.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	17.5		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	16.1		0.91	5.00	ug/Kg
71-43-2	Benzene	17.6		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	18.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	18.0		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	18.0		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	18.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	95.8		3.60	25.0	ug/Kg
108-88-3	Toluene	17.4		0.78	5.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Ave L	Date Received:	
Client Sample ID:	VY0317SBSD01	SDG No.:	Q1574
Lab Sample ID:	VY0317SBSD01	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
VY021546.D	1		03/17/25 13:12	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	18.2		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.7		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.2		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.6		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	17.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	17.2		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	34.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	17.4		0.82	5.00	ug/Kg
100-42-5	Styrene	17.6		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.8		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	16.7		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	17.5		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.1		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	17.4		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	17.6		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.1		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.8		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.5		70 (63) - 130 (155)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (74) - 130 (123)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		70 (38) - 130 (136)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	7.707			
540-36-3	1,4-Difluorobenzene	339000	8.616			
3114-55-4	Chlorobenzene-d5	300000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	156000	13.346			

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Ave L		Date Received:	
Client Sample ID:	VY0317SBSD01		SDG No.:	Q1574
Lab Sample ID:	VY0317SBSD01		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
VY021546.D	1		03/17/25 13:12	VY031725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1574 SAS No.: Q1574 SDG No.: Q1574

Instrument ID: MSVOA_Y Calibration Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 12:15

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

LAB FILE ID:		RRF010 = VY021397.D		RRF020 = VY021398.D		RRF050 = VY021399.D		RRF100 = VY021400.D		RRF150 = VY021401.D		RRF005 = VY021403.D	
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	RRF	% RSD					
Dichlorodifluoromethane	0.493	0.416	0.447	0.440	0.429	0.529	0.459	9.4					
Chloromethane	0.694	0.588	0.617	0.608	0.580	0.793	0.647	12.7					
Vinyl Chloride	0.762	0.639	0.691	0.706	0.665	0.778	0.707	7.7					
Bromomethane	0.555	0.450	0.468	0.483	0.468	0.641	0.511	14.4					
Chloroethane	0.505	0.427	0.460	0.458	0.432	0.521	0.467	8.2					
Trichlorofluoromethane	1.050	0.896	0.967	0.963	0.935	1.109	0.987	8					
1,1,2-Trichlorotrifluoroethane	0.600	0.507	0.538	0.542	0.525	0.668	0.563	10.7					
1,1-Dichloroethene	0.542	0.460	0.506	0.512	0.494	0.566	0.514	7.2					
Acetone	0.124	0.091	0.134	0.103	0.095	0.144	0.115	18.9					
Carbon Disulfide	1.705	1.425	1.631	1.618	1.546	1.732	1.610	7					
Methyl tert-butyl Ether	1.290	1.177	1.366	1.299	1.315	1.364	1.302	5.3					
Methyl Acetate	0.253	0.227	0.284	0.245	0.257	0.268	0.256	7.6					
Methylene Chloride	0.717	0.538	0.552	0.530	0.507	0.788	0.605	19.4					
trans-1,2-Dichloroethene	0.608	0.516	0.564	0.570	0.545	0.648	0.575	8.1					
1,1-Dichloroethane	1.124	0.955	1.050	1.035	0.991	1.179	1.056	7.9					
Cyclohexane	1.039	0.885	0.941	0.943	0.914	1.216	0.990	12.4					
2-Butanone	0.160	0.136	0.181	0.149	0.151	0.180	0.159	11.2					
Carbon Tetrachloride	0.627	0.538	0.587	0.595	0.579	0.625	0.592	5.6					
cis-1,2-Dichloroethene	0.675	0.592	0.654	0.658	0.639	0.702	0.653	5.6					
Bromochloromethane	0.481	0.423	0.467	0.426	0.380	0.478	0.443	9					
Chloroform	1.181	0.992	1.087	1.066	1.029	1.222	1.096	8.1					
1,1,1-Trichloroethane	1.063	0.894	0.978	0.983	0.953	1.151	1.004	9					
Methylcyclohexane	0.595	0.550	0.651	0.680	0.669	0.641	0.631	7.8					
Benzene	1.554	1.366	1.542	1.540	1.473	1.618	1.515	5.7					
1,2-Dichloroethane	0.446	0.386	0.436	0.414	0.408	0.453	0.424	6.1					
Trichloroethene	0.390	0.349	0.381	0.384	0.378	0.415	0.383	5.5					
1,2-Dichloropropane	0.371	0.333	0.368	0.358	0.347	0.388	0.361	5.3					
Bromodichloromethane	0.550	0.485	0.548	0.535	0.521	0.559	0.533	5					
4-Methyl-2-Pentanone	0.210	0.202	0.263	0.230	0.243	0.219	0.228	9.9					
Toluene	0.952	0.853	0.988	0.997	0.958	0.983	0.955	5.6					

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1574 SAS No.: Q1574 SDG No.: Q1574

Instrument ID: MSVOA_Y Calibration Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 12:15

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

LAB FILE ID:								
RRF010 = VY021397.D			RRF020 = VY021398.D			RRF050 = VY021399.D		
RRF100 = VY021400.D			RRF150 = VY021401.D			RRF005 = VY021403.D		
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	RRF	% RSD
t-1,3-Dichloropropene	0.447	0.420	0.499	0.495	0.495	0.461	0.470	6.8
cis-1,3-Dichloropropene	0.544	0.498	0.587	0.579	0.566	0.570	0.557	5.8
1,1,2-Trichloroethane	0.264	0.237	0.283	0.259	0.257	0.274	0.263	6
2-Hexanone	0.135	0.129	0.182	0.156	0.163	0.139	0.151	13.1
Dibromochloromethane	0.358	0.327	0.376	0.363	0.361	0.374	0.360	4.9
1,2-Dibromoethane	0.246	0.226	0.262	0.248	0.247	0.258	0.248	5.1
Tetrachloroethene	0.418	0.370	0.403	0.407	0.393	0.449	0.407	6.5
Chlorobenzene	1.194	1.065	1.186	1.192	1.165	1.283	1.181	5.9
Ethyl Benzene	2.005	1.825	2.135	2.209	2.146	2.115	2.072	6.7
m/p-Xylenes	0.761	0.705	0.822	0.833	0.803	0.797	0.787	6
o-Xylene	0.700	0.635	0.759	0.779	0.754	0.723	0.725	7.2
Styrene	1.133	1.084	1.277	1.306	1.267	1.151	1.203	7.6
Bromoform	0.227	0.213	0.250	0.237	0.238	0.235	0.233	5.3
Isopropylbenzene	3.797	3.468	4.034	4.231	4.124	3.977	3.939	6.9
1,1,2,2-Tetrachloroethane	0.712	0.637	0.727	0.667	0.690	0.737	0.695	5.4
1,3-Dichlorobenzene	1.861	1.640	1.812	1.840	1.822	2.031	1.834	6.8
1,4-Dichlorobenzene	1.820	1.624	1.782	1.783	1.764	1.989	1.794	6.5
1,2-Dichlorobenzene	1.561	1.431	1.588	1.568	1.560	1.723	1.572	5.9
1,2-Dibromo-3-Chloropropane	0.101	0.092	0.108	0.098	0.108	0.117	0.104	8.3
1,2,4-Trichlorobenzene	0.723	0.735	0.908	0.926	0.994	0.864	0.859	12.7
1,2,3-Trichlorobenzene	0.604	0.614	0.775	0.771	0.835	0.734	0.722	13
1,2-Dichloroethane-d4	0.580	0.514	0.482	0.511	0.477	0.606	0.528	10
Dibromofluoromethane	0.348	0.315	0.296	0.332	0.311	0.371	0.329	8.3
Toluene-d8	1.276	1.179	1.135	1.289	1.203	1.384	1.244	7.2
4-Bromofluorobenzene	0.424	0.394	0.386	0.433	0.405	0.498	0.423	9.6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1574 SAS No.: Q1574 SDG No.: Q1574

Instrument ID: MSVOA_Y Calibration Date/Time: 03/17/2025 10:04

Lab File ID: VY021543.D Init. Calib. Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 12:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.459	0.388		-15.47	20
Chloromethane	0.647	0.610	0.1	-5.72	20
Vinyl Chloride	0.707	0.691		-2.26	20
Bromomethane	0.511	0.493		-3.52	20
Chloroethane	0.467	0.508		8.78	20
Trichlorofluoromethane	0.987	1.063		7.7	20
1,1,2-Trichlorotrifluoroethane	0.563	0.527		-6.39	20
1,1-Dichloroethene	0.514	0.483		-6.03	20
Acetone	0.115	0.135		17.39	20
Carbon Disulfide	1.610	1.478		-8.2	20
Methyl tert-butyl Ether	1.302	1.287		-1.15	20
Methyl Acetate	0.256	0.301		17.58	20
Methylene Chloride	0.605	0.566		-6.45	20
trans-1,2-Dichloroethene	0.575	0.570		-0.87	20
1,1-Dichloroethane	1.056	1.074	0.1	1.71	20
Cyclohexane	0.990	0.843		-14.85	20
2-Butanone	0.159	0.162		1.89	20
Carbon Tetrachloride	0.592	0.567		-4.22	20
cis-1,2-Dichloroethene	0.653	0.661		1.23	20
Bromochloromethane	0.443	0.460		3.84	20
Chloroform	1.096	1.133		3.38	20
1,1,1-Trichloroethane	1.004	0.987		-1.69	20
Methylcyclohexane	0.631	0.575		-8.88	20
Benzene	1.515	1.513		-0.13	20
1,2-Dichloroethane	0.424	0.425		0.24	20
Trichloroethene	0.383	0.386		0.78	20
1,2-Dichloropropane	0.361	0.363		0.55	20
Bromodichloromethane	0.533	0.548		2.81	20
4-Methyl-2-Pentanone	0.228	0.223		-2.19	20
Toluene	0.955	0.970		1.57	20
t-1,3-Dichloropropene	0.470	0.480		2.13	20
cis-1,3-Dichloropropene	0.557	0.569		2.15	20
1,1,2-Trichloroethane	0.263	0.267		1.52	20
2-Hexanone	0.151	0.156		3.31	20
Dibromochloromethane	0.360	0.372		3.33	20
1,2-Dibromoethane	0.248	0.247		-0.4	20
Tetrachloroethene	0.407	0.445		9.34	20
Chlorobenzene	1.181	1.180	0.3	-0.09	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1574 SAS No.: Q1574 SDG No.: Q1574

Instrument ID: MSVOA_Y Calibration Date/Time: 03/17/2025 10:04

Lab File ID: VY021543.D Init. Calib. Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 12:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.072	2.035		-1.79	20
m/p-Xylenes	0.787	0.790		0.38	20
o-Xylene	0.725	0.739		1.93	20
Styrene	1.203	1.247		3.66	20
Bromoform	0.233	0.237	0.1	1.72	20
Isopropylbenzene	3.939	3.757		-4.62	20
1,1,2,2-Tetrachloroethane	0.695	0.635	0.3	-8.63	20
1,3-Dichlorobenzene	1.834	1.769		-3.54	20
1,4-Dichlorobenzene	1.794	1.732		-3.46	20
1,2-Dichlorobenzene	1.572	1.531		-2.61	20
1,2-Dibromo-3-Chloropropane	0.104	0.094		-9.61	20
1,2,4-Trichlorobenzene	0.859	0.849		-1.16	20
1,2,3-Trichlorobenzene	0.722	0.702		-2.77	20
1,2-Dichloroethane-d4	0.528	0.578		9.47	20
Dibromofluoromethane	0.329	0.359		9.12	20
Toluene-d8	1.244	1.327		6.67	20
4-Bromofluorobenzene	0.423	0.453		7.09	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\VY031725\
Data File : VY021549.D
Acq On : 17 Mar 2025 14:26
Operator : SY/MD
Sample : Q1574-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WC1

A
B
C
D
E
F
G
H
I
J

Quant Time: Mar 18 01:27:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

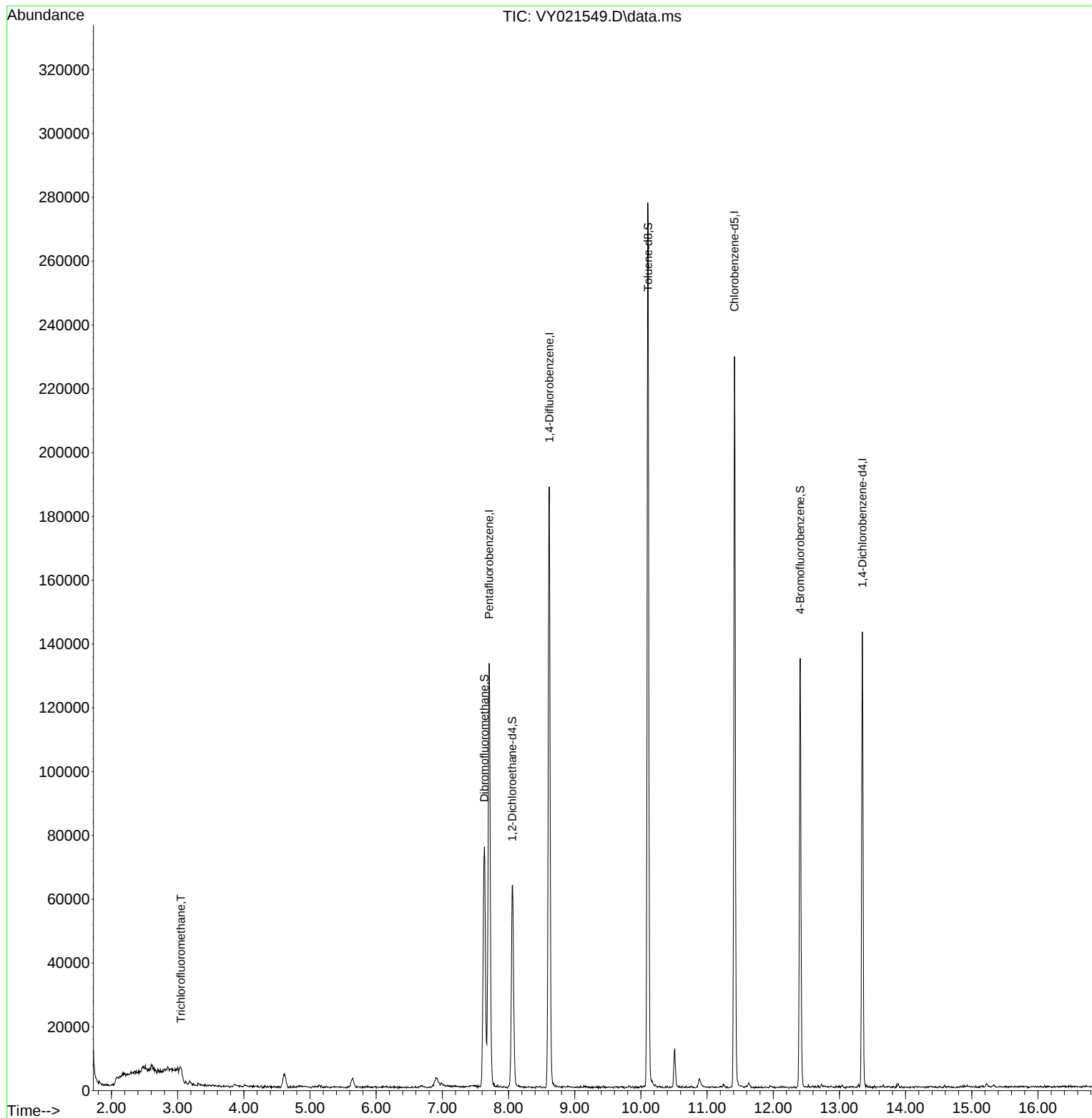
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	98896	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	155221	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	116517	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	33476	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	51252	49.032	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.060%
35) Dibromofluoromethane	7.634	113	54695	53.607	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	107.220%
50) Toluene-d8	10.109	98	177431	45.929	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	91.860%
62) 4-Bromofluorobenzene	12.408	95	39595	30.131	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	60.260%
Target Compounds						
7) Trichlorofluoromethane	3.050	101	2375	1.217	ug/l	# 80

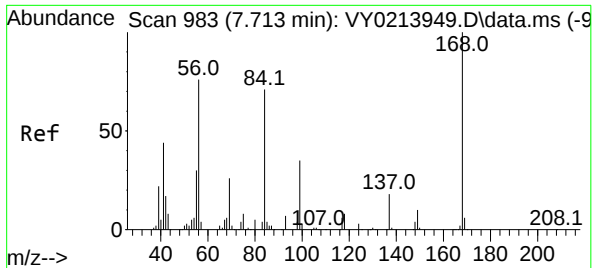
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021549.D
Acq On : 17 Mar 2025 14:26
Operator : SY/MD
Sample : Q1574-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WC1

Quant Time: Mar 18 01:27:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

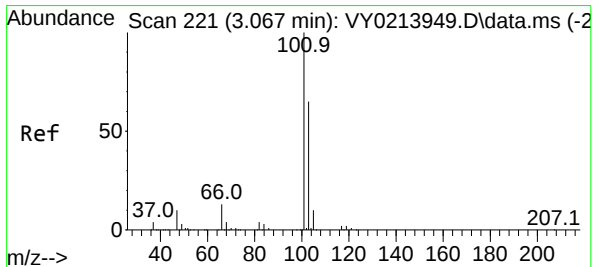
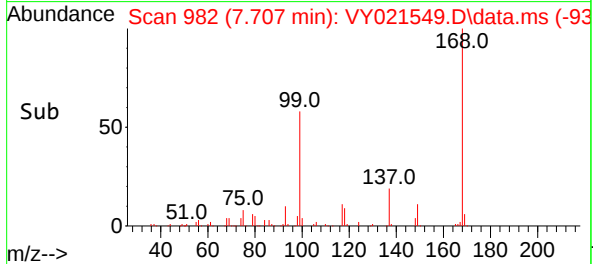
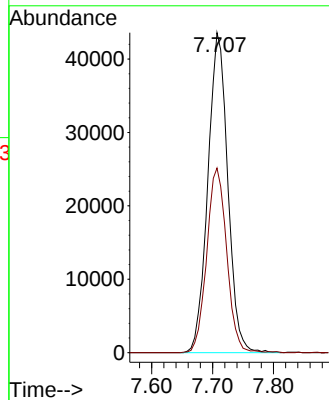
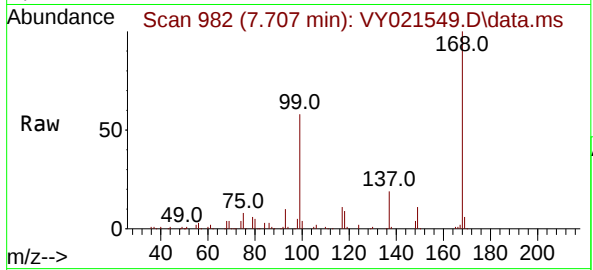




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021549.D
Acq: 17 Mar 2025 14:26

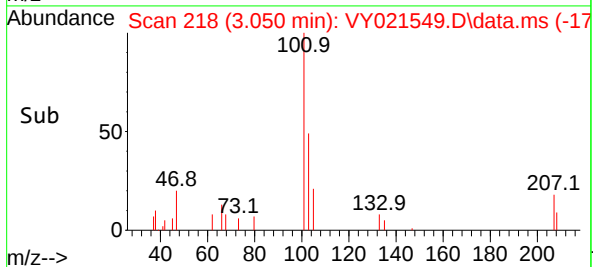
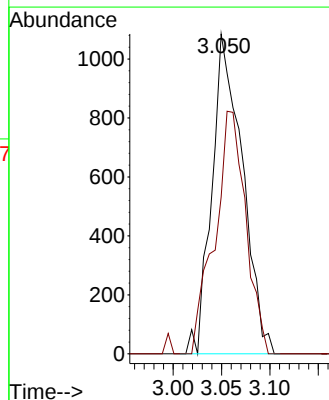
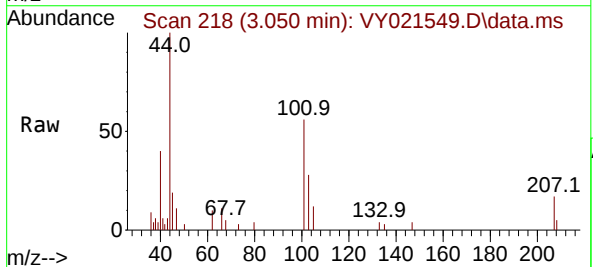
Instrument :
MSVOA_Y
ClientSampleId :
WC1

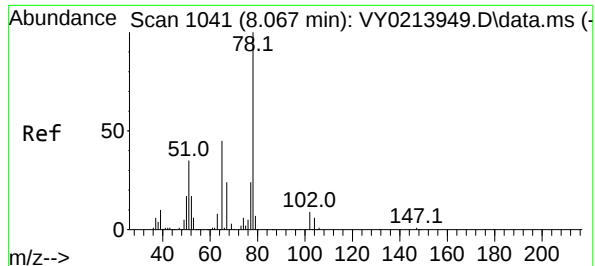
Tgt Ion:168 Resp: 98896
Ion Ratio Lower Upper
168 100
99 57.7 46.0 69.0



#7
Trichlorofluoromethane
Concen: 1.217 ug/l
RT: 3.050 min Scan# 218
Delta R.T. -0.018 min
Lab File: VY021549.D
Acq: 17 Mar 2025 14:26

Tgt Ion:101 Resp: 2375
Ion Ratio Lower Upper
101 100
103 49.0 51.7 77.5#





#33

1,2-Dichloroethane-d4

Concen: 49.032 ug/l

RT: 8.055 min Scan# 1039

Delta R.T. -0.012 min

Lab File: VY021549.D

Acq: 17 Mar 2025 14:26

Instrument :

MSVOA_Y

ClientSampleId :

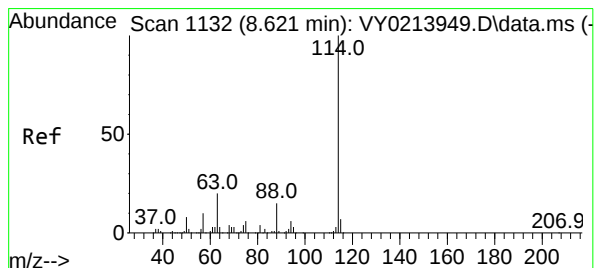
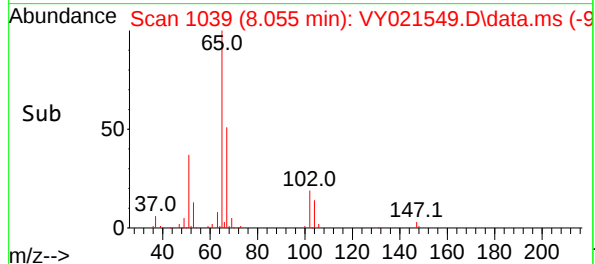
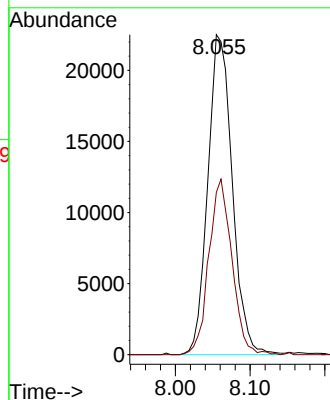
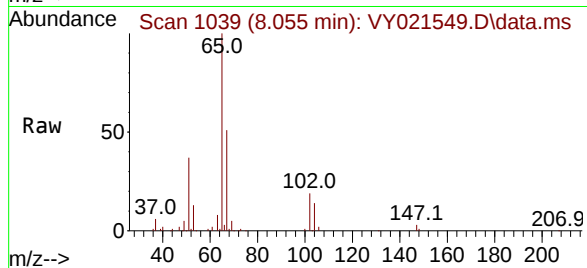
WC1

Tgt Ion: 65 Resp: 51252

Ion Ratio Lower Upper

65 100

67 51.8 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021549.D

Acq: 17 Mar 2025 14:26

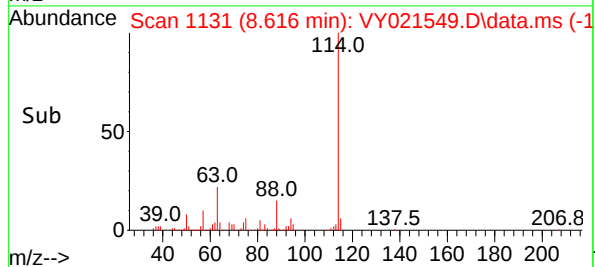
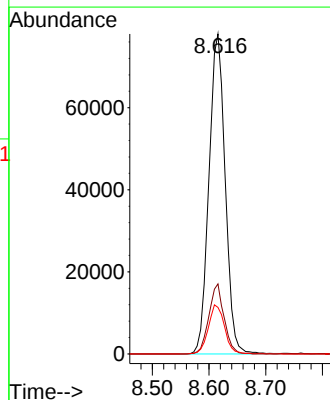
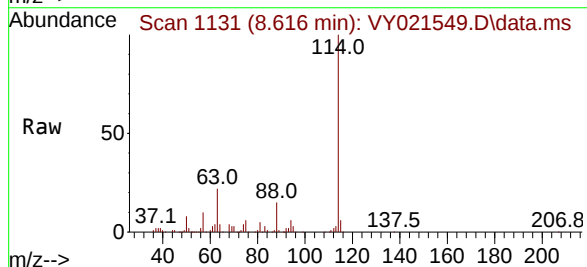
Tgt Ion: 114 Resp: 155221

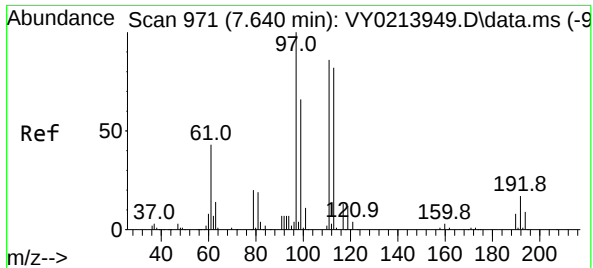
Ion Ratio Lower Upper

114 100

63 21.9 0.0 40.8

88 14.5 0.0 30.8





#35

Dibromofluoromethane

Concen: 53.607 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021549.D

Acq: 17 Mar 2025 14:26

Instrument :

MSVOA_Y

ClientSampleId :

WC1

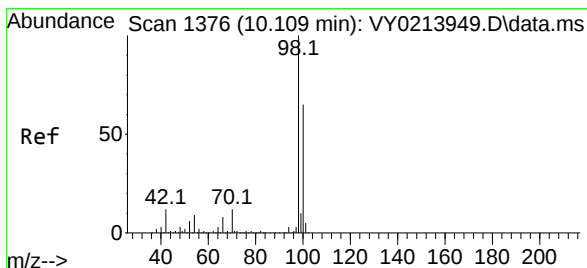
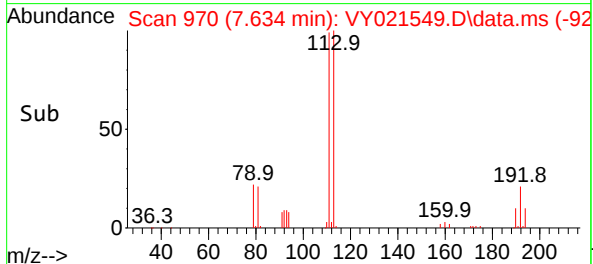
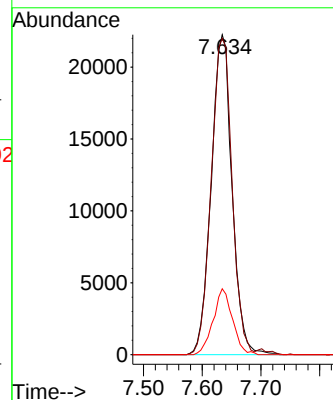
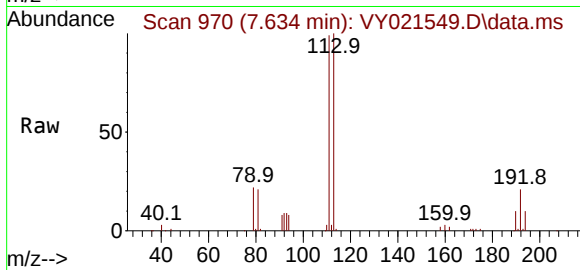
Tgt Ion:113 Resp: 54695

Ion Ratio Lower Upper

113 100

111 99.3 82.0 123.0

192 19.2 15.9 23.9



#50

Toluene-d8

Concen: 45.929 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021549.D

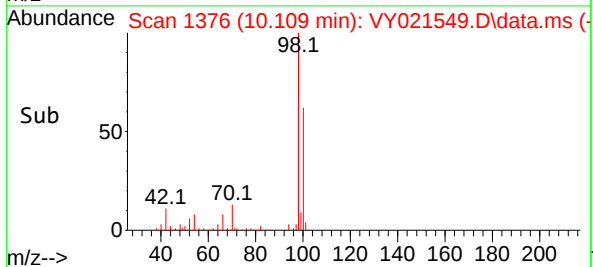
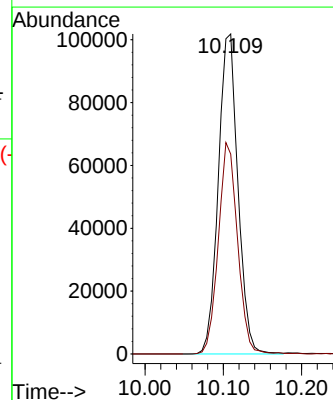
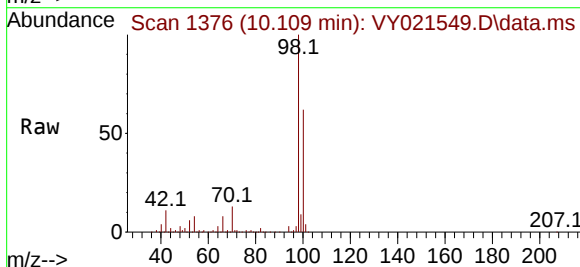
Acq: 17 Mar 2025 14:26

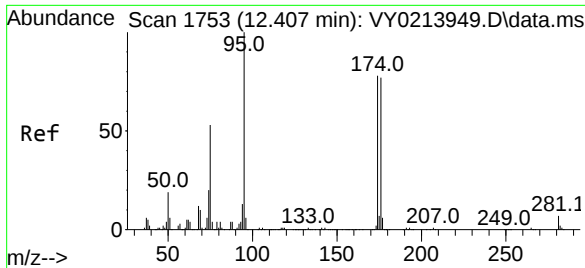
Tgt Ion: 98 Resp: 177431

Ion Ratio Lower Upper

98 100

100 64.8 52.1 78.1





#62

4-Bromofluorobenzene

Concen: 30.131 ug/l

RT: 12.408 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021549.D

Acq: 17 Mar 2025 14:26

Instrument :

MSVOA_Y

ClientSampleId :

WC1

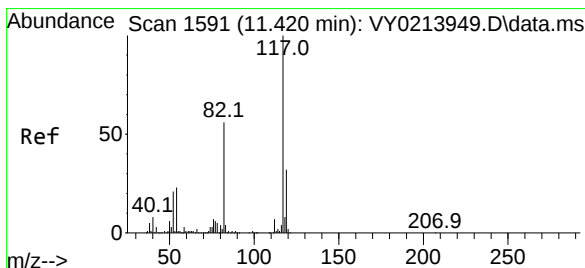
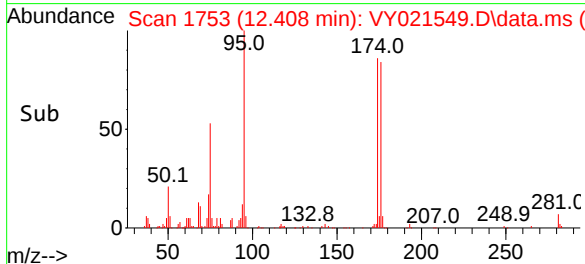
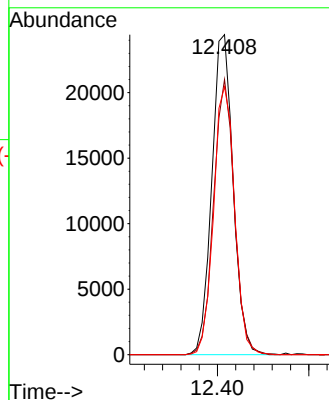
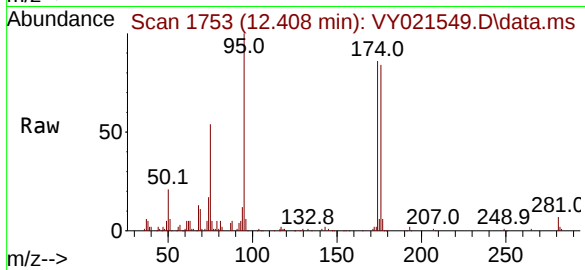
Tgt Ion: 95 Resp: 39595

Ion Ratio Lower Upper

95 100

174 83.4 0.0 165.0

176 82.7 0.0 160.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY021549.D

Acq: 17 Mar 2025 14:26

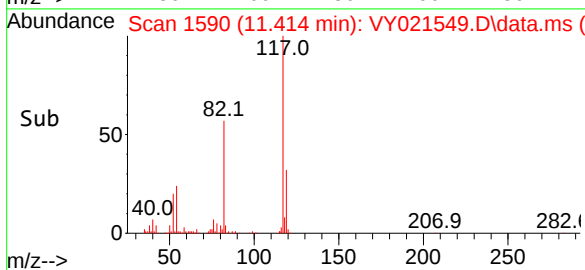
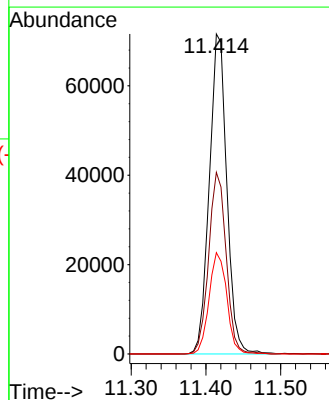
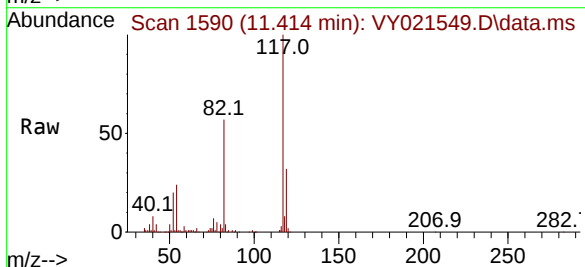
Tgt Ion: 117 Resp: 116517

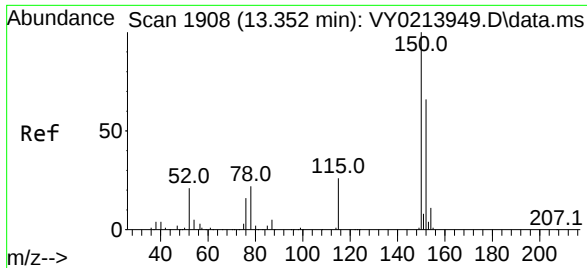
Ion Ratio Lower Upper

117 100

82 56.7 44.6 67.0

119 31.7 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY021549.D

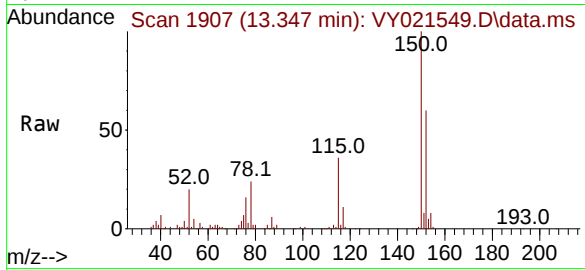
Acq: 17 Mar 2025 14:26

Instrument :

MSVOA_Y

ClientSampleId :

WC1



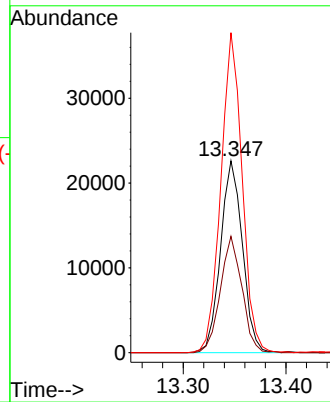
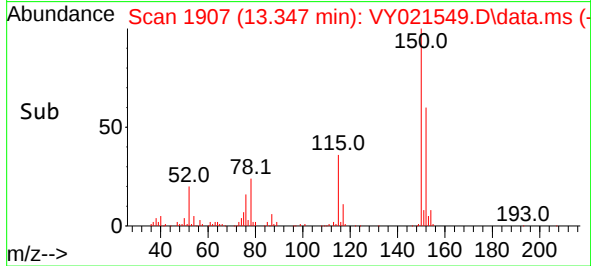
Tgt Ion:152 Resp: 33476

Ion Ratio Lower Upper

152 100

115 59.7 29.0 87.0

150 161.9 0.0 347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
 Data File : VY021549.D
 Acq On : 17 Mar 2025 14:26
 Operator : SY/MD
 Sample : Q1574-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC1

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\82Y030425S.M

Title : SW846 8260

Signal : TIC: VY021549.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	52	59	61	rBV5	2440	5173	1.07%	0.218%
2	4.616	465	475	483	rVB6	4257	13531	2.81%	0.571%
3	5.647	635	644	652	rVB7	2951	8706	1.81%	0.367%
4	6.903	844	850	852	rBV3	2550	5160	1.07%	0.218%
5	7.634	960	970	976	rBV2	75232	185249	38.47%	7.816%
6	7.707	976	982	992	rVB	132093	297547	61.79%	12.554%
7	8.061	1027	1040	1054	rBV	63565	152936	31.76%	6.452%
8	8.616	1121	1131	1144	rBV	188509	378732	78.65%	15.979%
9	10.103	1368	1375	1385	rBV	277116	481520	100.00%	20.315%
10	10.512	1435	1442	1448	rBV2	12172	21013	4.36%	0.887%
11	10.884	1498	1503	1509	rBV6	2569	5959	1.24%	0.251%
12	11.414	1582	1590	1603	rBV	229087	372149	77.29%	15.701%
13	12.408	1743	1753	1763	rBV2	134723	227423	47.23%	9.595%
14	13.347	1900	1907	1915	rVB	142736	215123	44.68%	9.076%

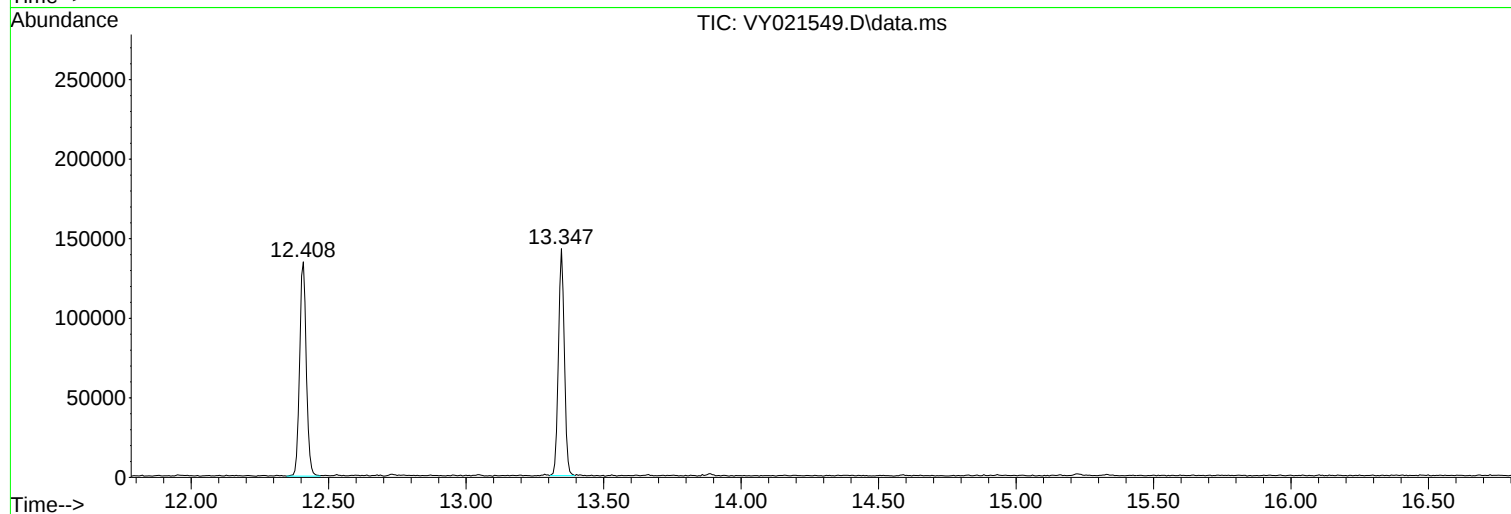
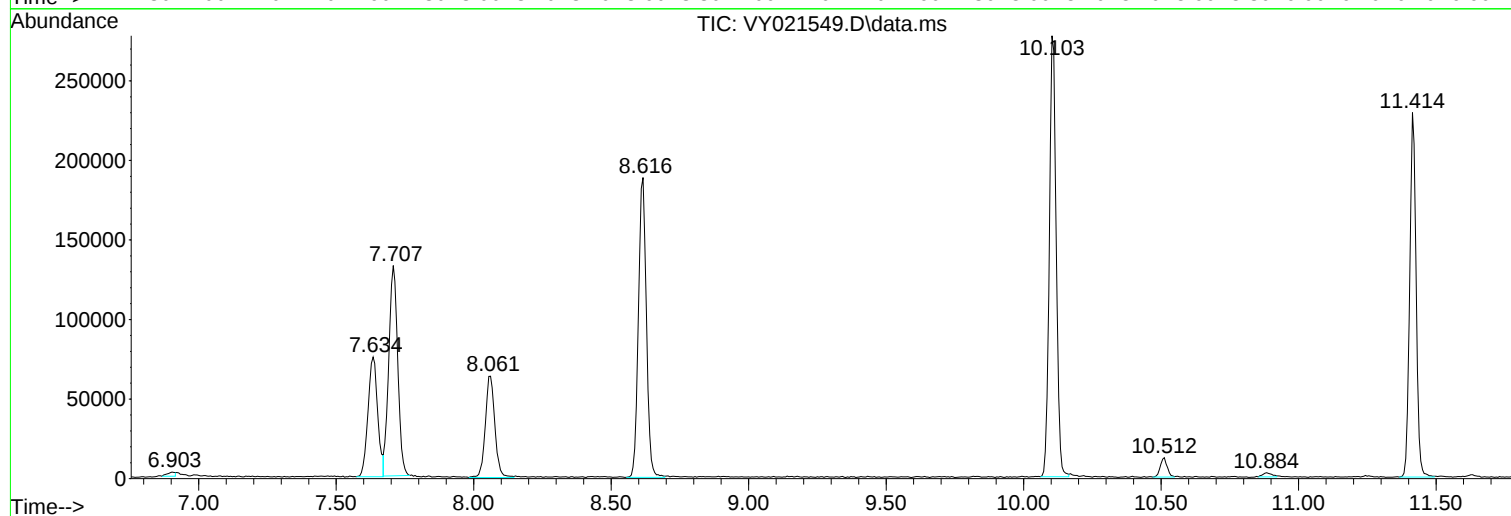
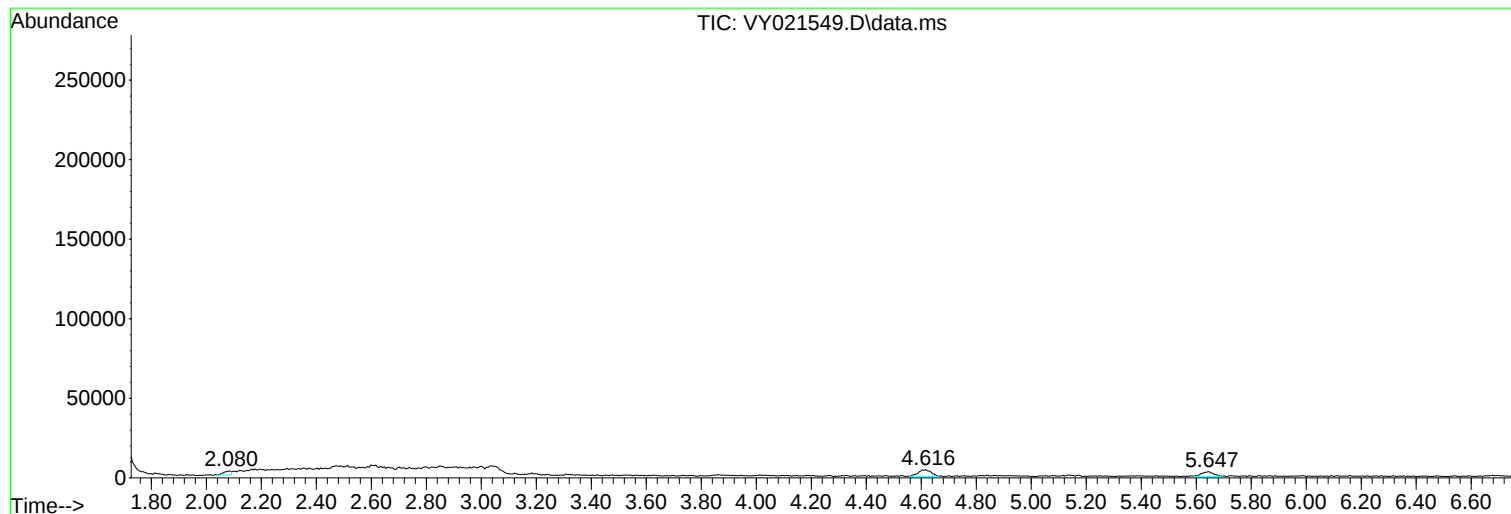
Sum of corrected areas: 2370221

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021549.D
Acq On : 17 Mar 2025 14:26
Operator : SY/MD
Sample : Q1574-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WC1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021549.D
Acq On : 17 Mar 2025 14:26
Operator : SY/MD
Sample : Q1574-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WC1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021549.D
Acq On : 17 Mar 2025 14:26
Operator : SY/MD
Sample : Q1574-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WC1

A

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J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
 Data File : VY021552.D
 Acq On : 17 Mar 2025 15:55
 Operator : SY/MD
 Sample : Q1574-01RE
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC1RE

Quant Time: Mar 18 01:27:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

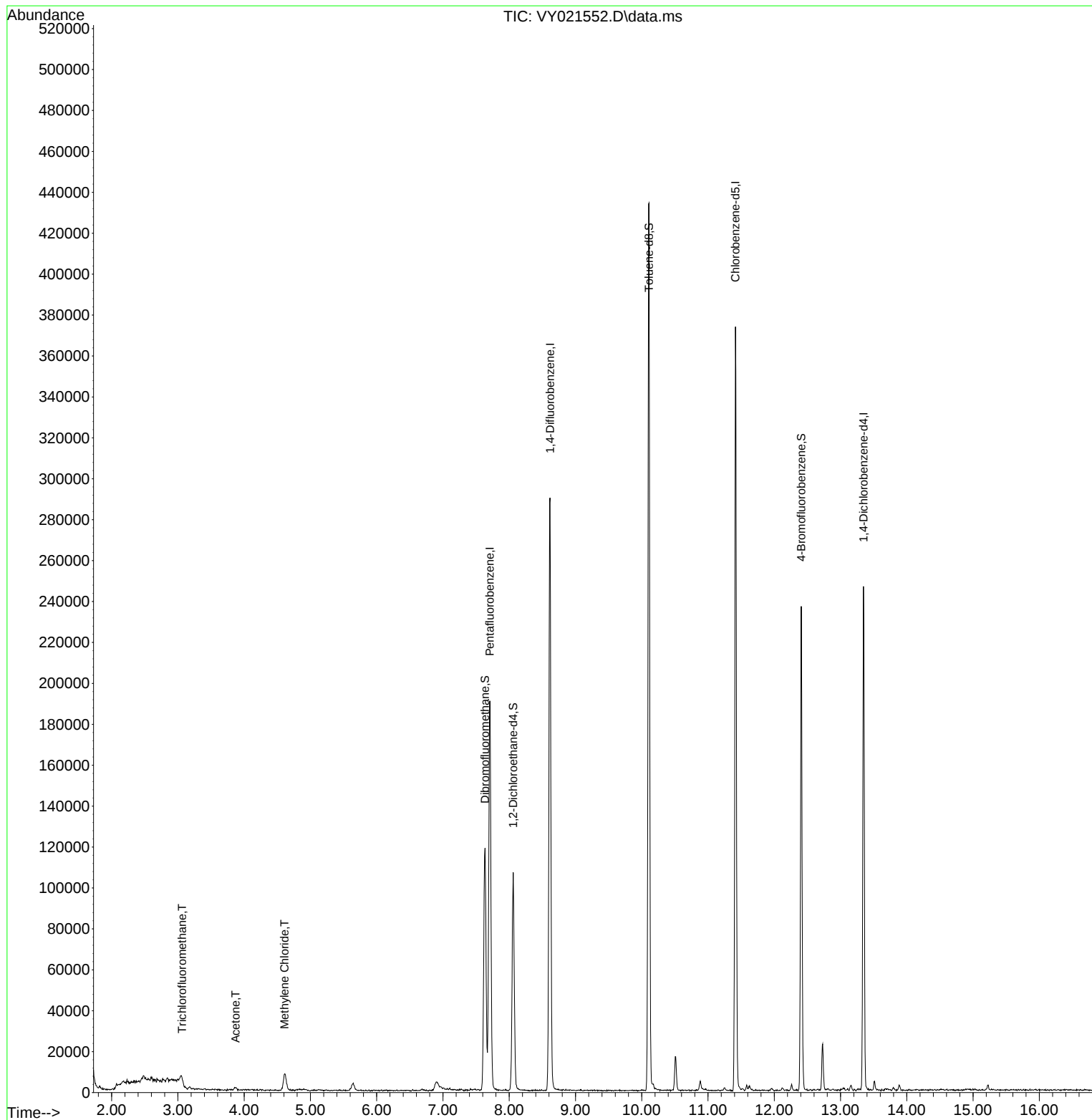
Internal Standards						
1) Pentafluorobenzene	7.707	168	140963	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	240910	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	190816	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	59425	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	81431	54.656	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 109.320%	
35) Dibromofluoromethane	7.634	113	85268	53.847	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.700%	
50) Toluene-d8	10.109	98	281376	46.929	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 93.860%	
62) 4-Bromofluorobenzene	12.408	95	66934	32.819	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 65.640%	
Target Compounds						
					Qvalue	
7) Trichlorofluoromethane	3.062	101	4547	1.635	ug/l #	81
16) Acetone	3.873	43	2142	6.592	ug/l #	89
20) Methylene Chloride	4.610	84	5855	3.432	ug/l #	91

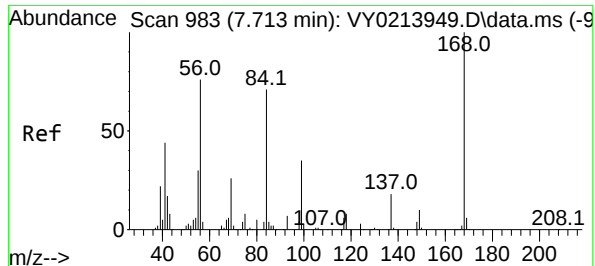
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021552.D
Acq On : 17 Mar 2025 15:55
Operator : SY/MD
Sample : Q1574-01RE
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WC1RE

Quant Time: Mar 18 01:27:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

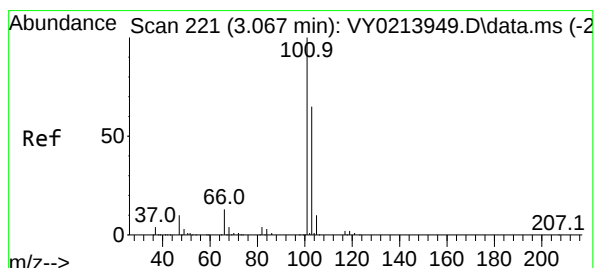
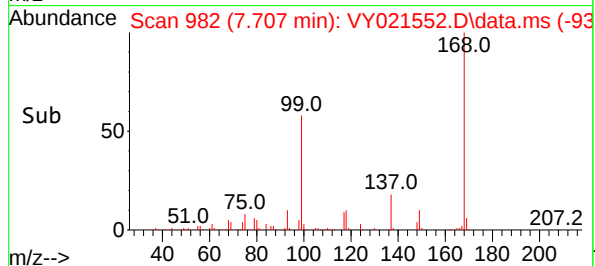
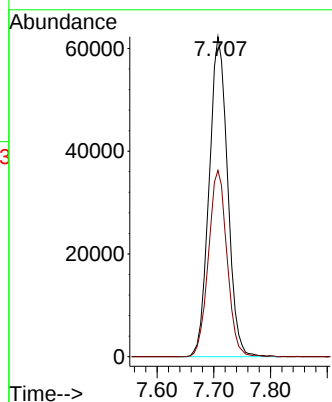
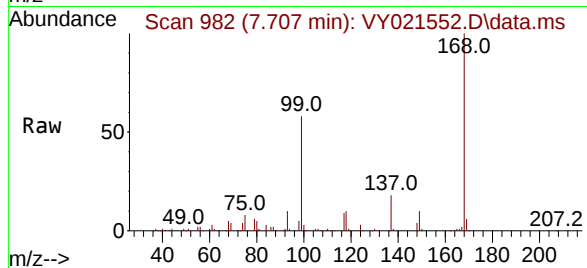




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021552.D
Acq: 17 Mar 2025 15:55

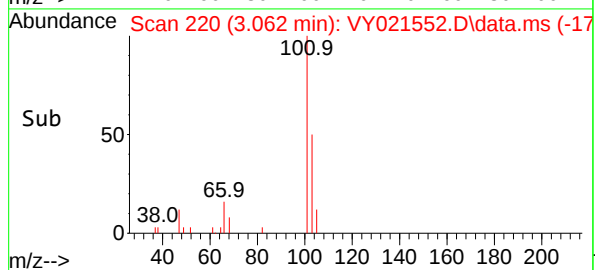
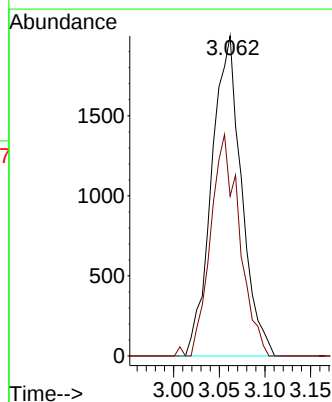
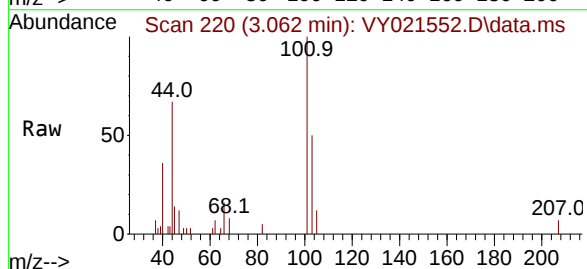
Instrument :
MSVOA_Y
ClientSampleId :
WC1RE

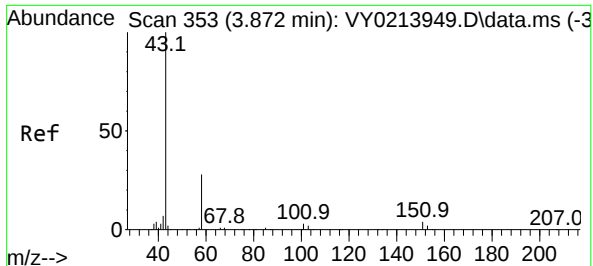
Tgt Ion:168 Resp: 140963
Ion Ratio Lower Upper
168 100
99 58.2 46.0 69.0



#7
Trichlorofluoromethane
Concen: 1.635 ug/l
RT: 3.062 min Scan# 220
Delta R.T. -0.006 min
Lab File: VY021552.D
Acq: 17 Mar 2025 15:55

Tgt Ion:101 Resp: 4547
Ion Ratio Lower Upper
101 100
103 49.9 51.7 77.5#

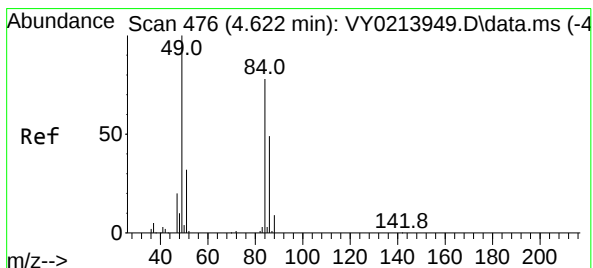
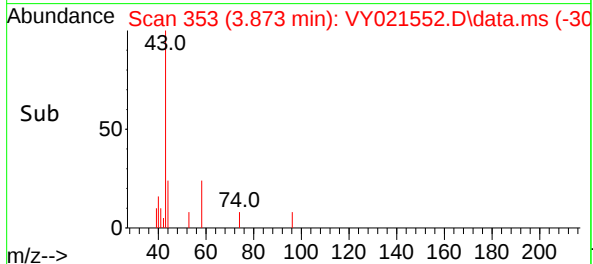
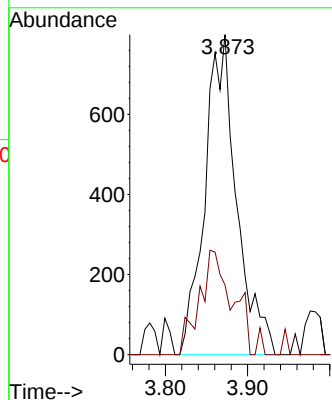
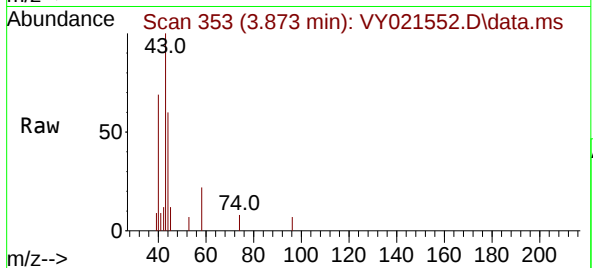




#16
Acetone
Concen: 6.592 ug/l
RT: 3.873 min Scan# 31
Delta R.T. 0.001 min
Lab File: VY021552.D
Acq: 17 Mar 2025 15:55

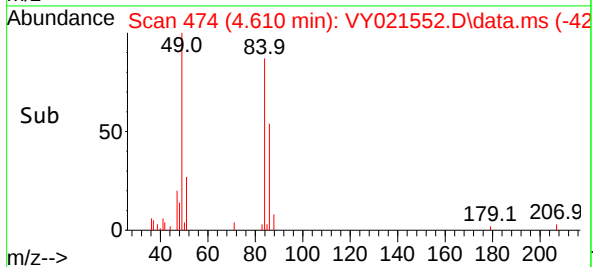
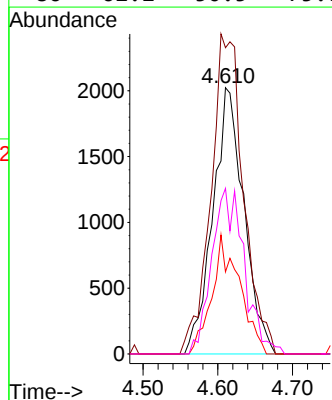
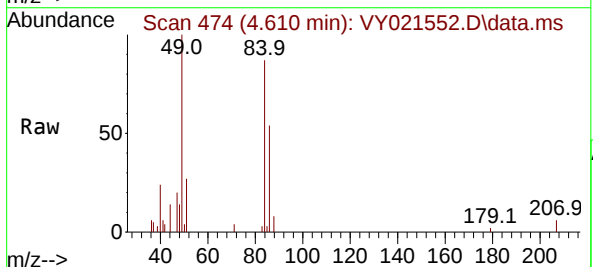
Instrument :
MSVOA_Y
ClientSampleId :
WC1RE

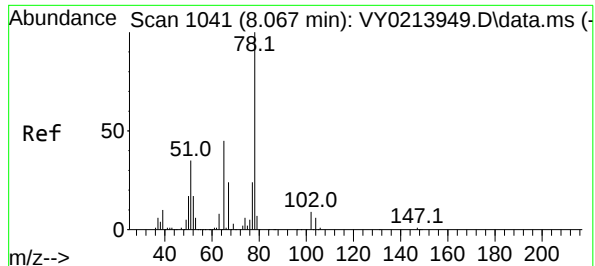
Tgt Ion: 43 Resp: 2142
Ion Ratio Lower Upper
43 100
58 21.8 22.1 33.1#



#20
Methylene Chloride
Concen: 3.432 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY021552.D
Acq: 17 Mar 2025 15:55

Tgt Ion: 84 Resp: 5855
Ion Ratio Lower Upper
84 100
49 115.0 102.0 153.0
51 30.8 33.0 49.6#
86 62.2 50.5 75.7





#33

1,2-Dichloroethane-d4

Concen: 54.656 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021552.D

Acq: 17 Mar 2025 15:55

Instrument :

MSVOA_Y

ClientSampleId :

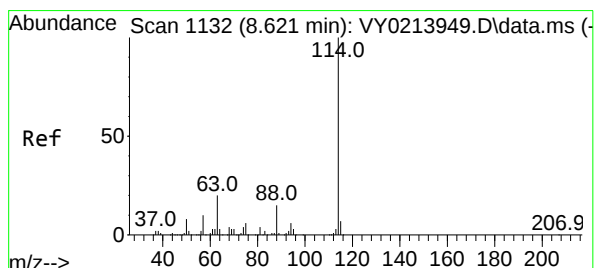
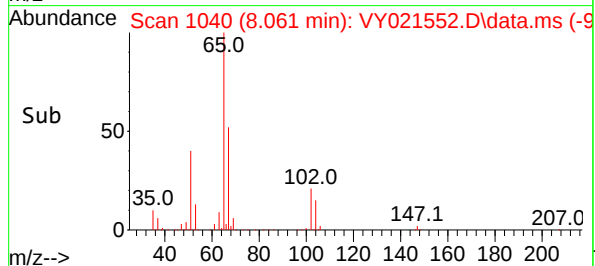
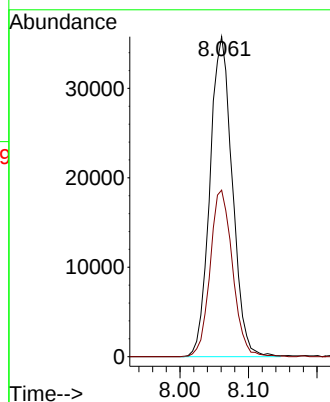
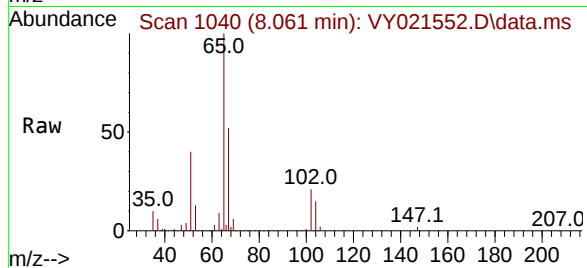
WC1RE

Tgt Ion: 65 Resp: 81431

Ion Ratio Lower Upper

65 100

67 52.1 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021552.D

Acq: 17 Mar 2025 15:55

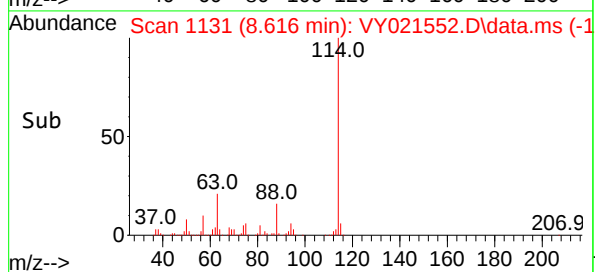
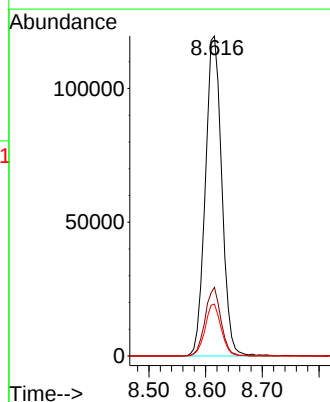
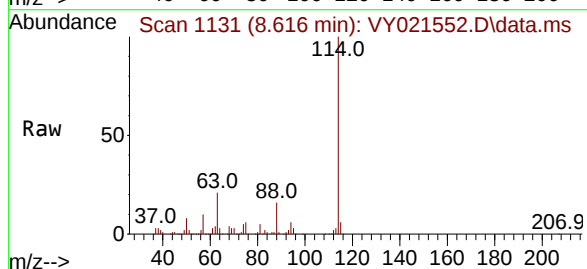
Tgt Ion: 114 Resp: 240910

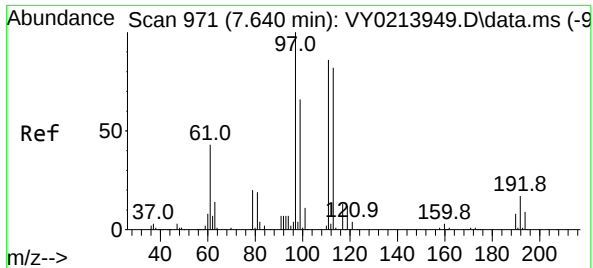
Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.8

88 16.2 0.0 30.8





#35

Dibromofluoromethane

Concen: 53.847 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021552.D

Acq: 17 Mar 2025 15:55

Instrument :

MSVOA_Y

ClientSampleId :

WC1RE

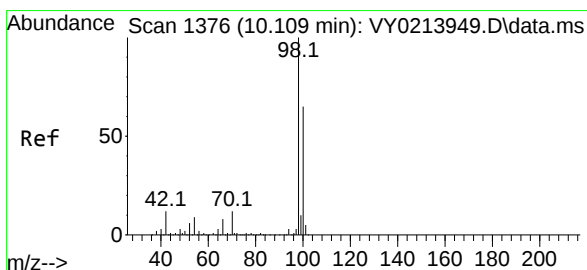
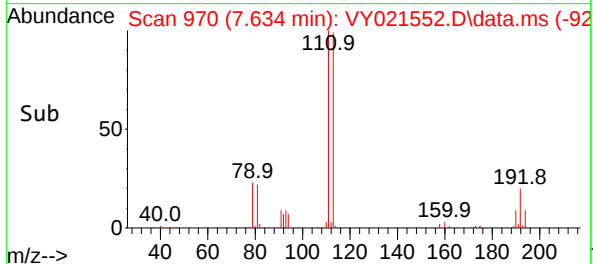
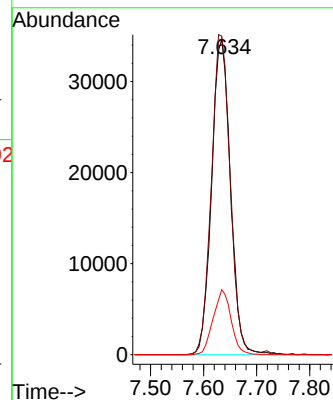
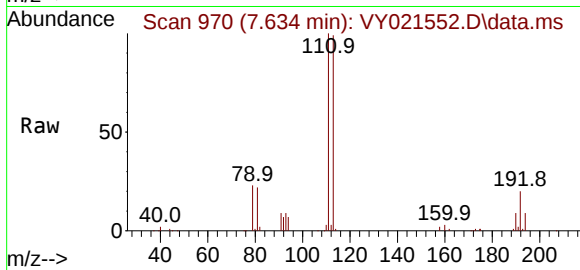
Tgt Ion:113 Resp: 85268

Ion Ratio Lower Upper

113 100

111 101.4 82.0 123.0

192 19.6 15.9 23.9



#50

Toluene-d8

Concen: 46.929 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021552.D

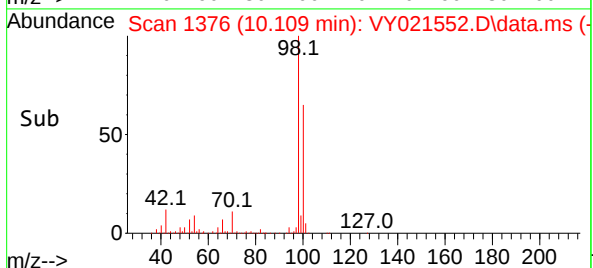
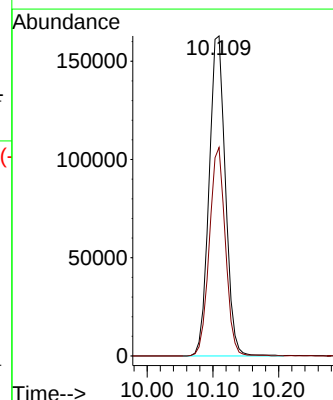
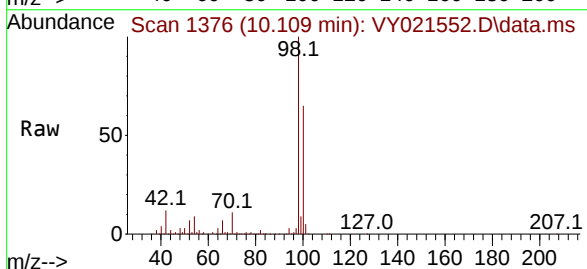
Acq: 17 Mar 2025 15:55

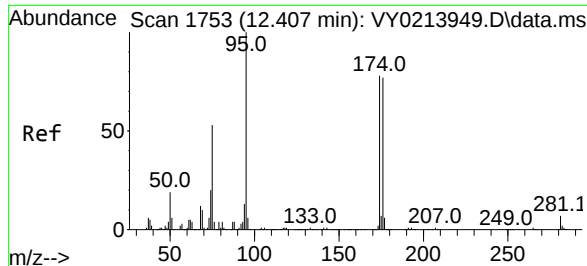
Tgt Ion: 98 Resp: 281376

Ion Ratio Lower Upper

98 100

100 64.0 52.1 78.1





#62

4-Bromofluorobenzene

Concen: 32.819 ug/l

RT: 12.408 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021552.D

Acq: 17 Mar 2025 15:55

Instrument :

MSVOA_Y

ClientSampleId :

WC1RE

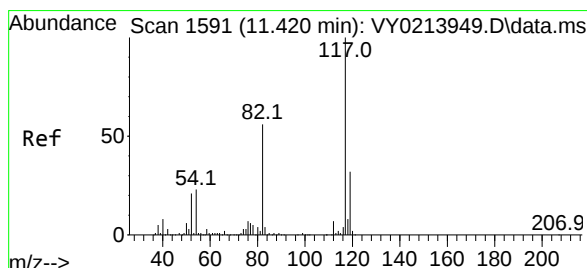
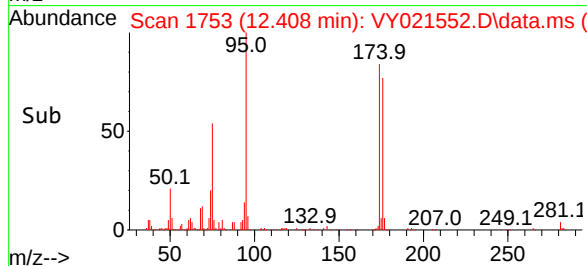
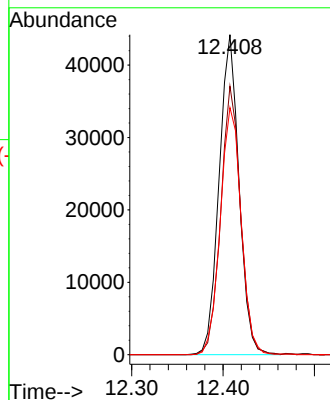
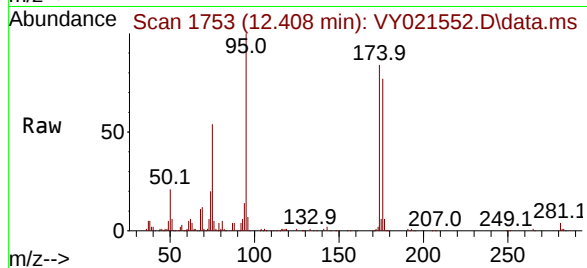
Tgt Ion: 95 Resp: 66934

Ion Ratio Lower Upper

95 100

174 83.7 0.0 165.0

176 81.2 0.0 160.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY021552.D

Acq: 17 Mar 2025 15:55

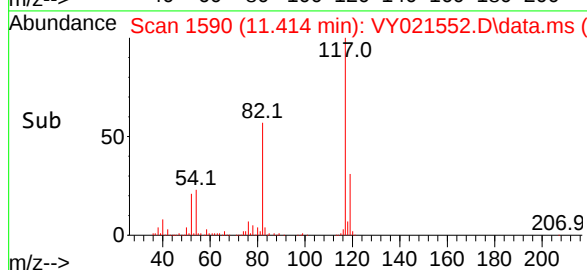
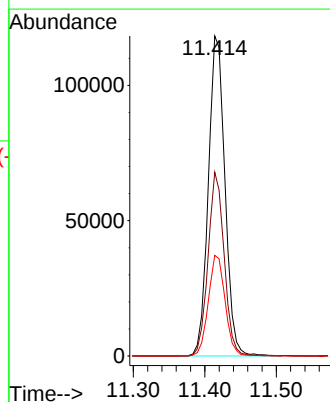
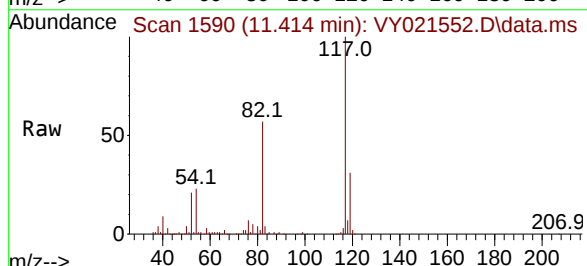
Tgt Ion: 117 Resp: 190816

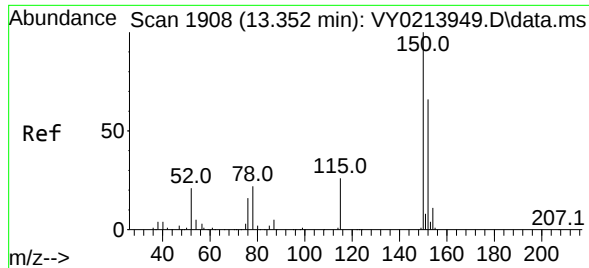
Ion Ratio Lower Upper

117 100

82 57.4 44.6 67.0

119 31.5 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY021552.D

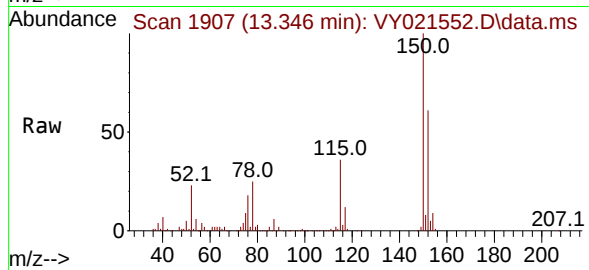
Acq: 17 Mar 2025 15:55

Instrument :

MSVOA_Y

ClientSampleId :

WC1RE



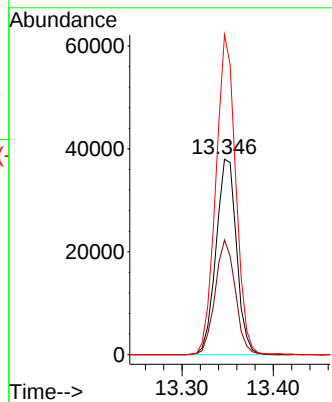
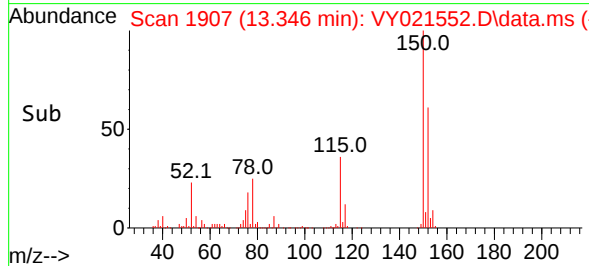
Tgt Ion:152 Resp: 59425

Ion Ratio Lower Upper

152 100

115 57.5 29.0 87.0

150 158.6 0.0 347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021544.D
Acq On : 17 Mar 2025 10:39
Operator : SY/MD
Sample : VY0317SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBL01

A

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G

H

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Quant Time: Mar 18 01:26:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	272314	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	493002	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	420924	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	158203	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151236	52.545	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	105.100%
35) Dibromofluoromethane	7.634	113	162364	50.103	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.200%
50) Toluene-d8	10.109	98	591441	48.203	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.400%
62) 4-Bromofluorobenzene	12.408	95	171451	41.079	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	82.160%

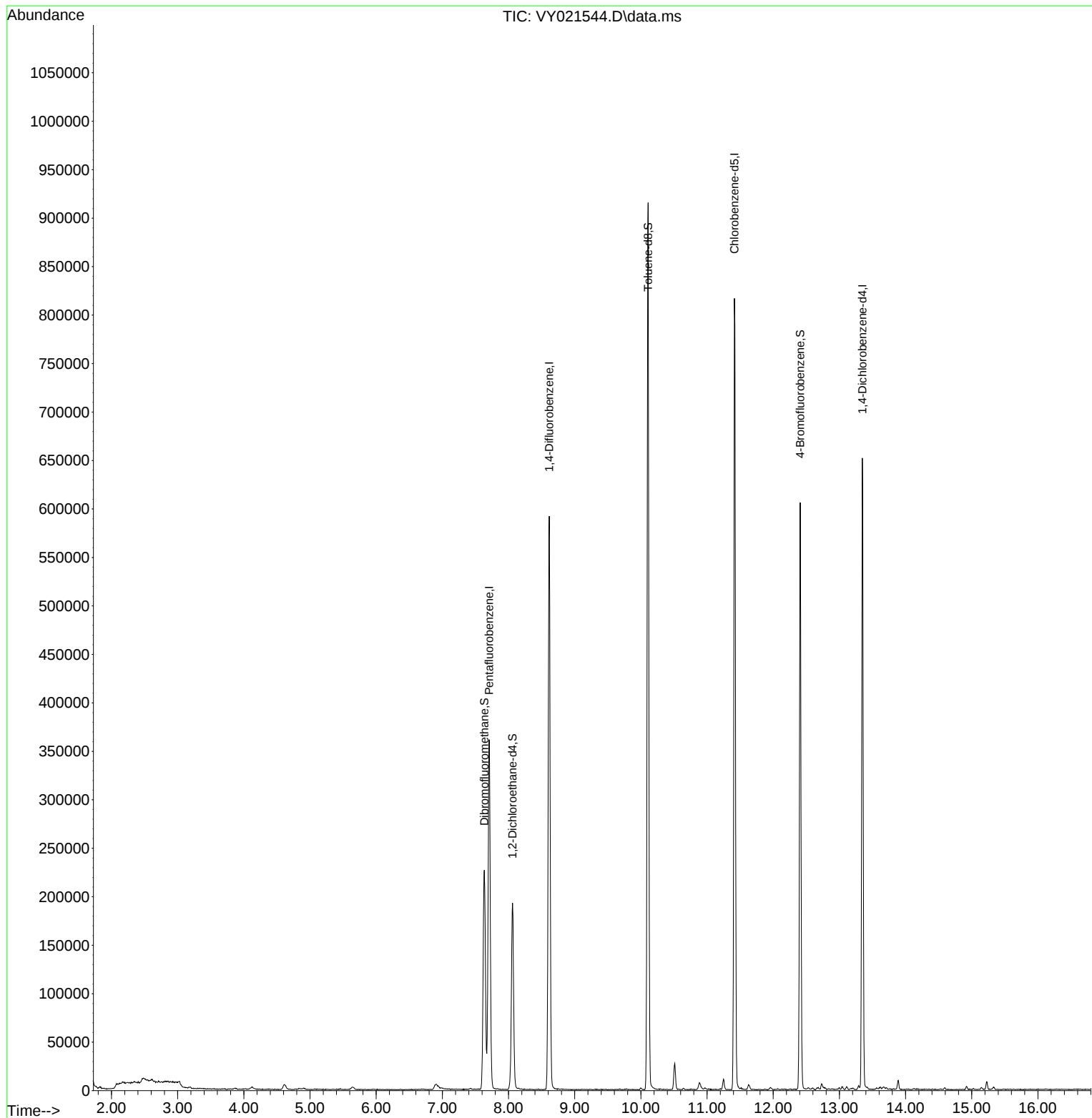
Target Compounds	Qvalue

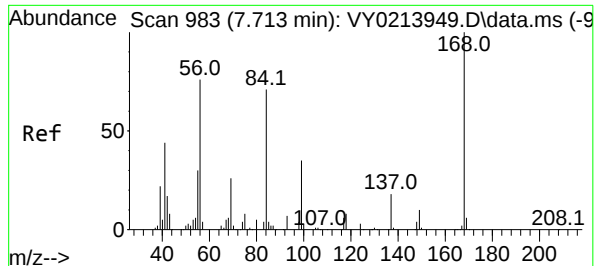
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021544.D
Acq On : 17 Mar 2025 10:39
Operator : SY/MD
Sample : VY0317SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBL01

Quant Time: Mar 18 01:26:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

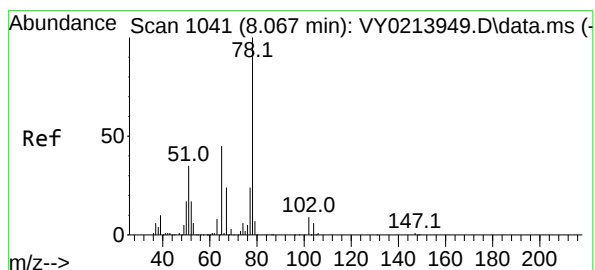
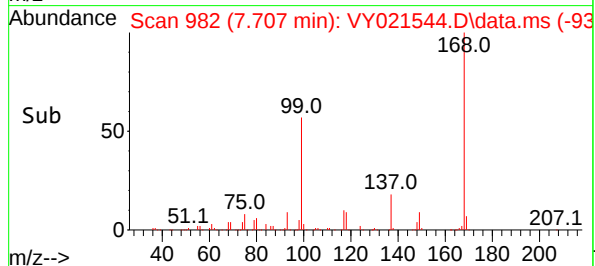
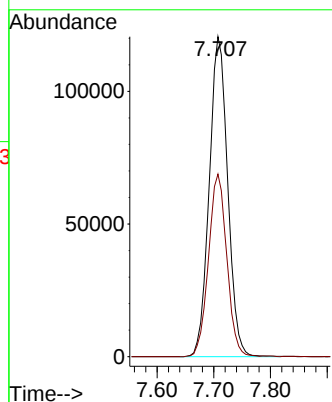
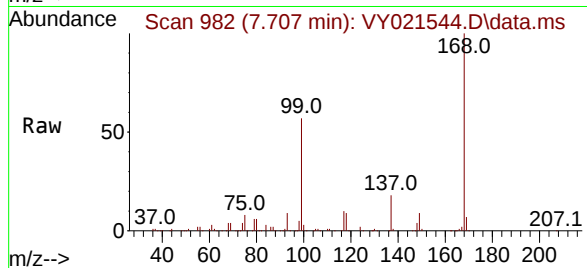




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021544.D
Acq: 17 Mar 2025 10:39

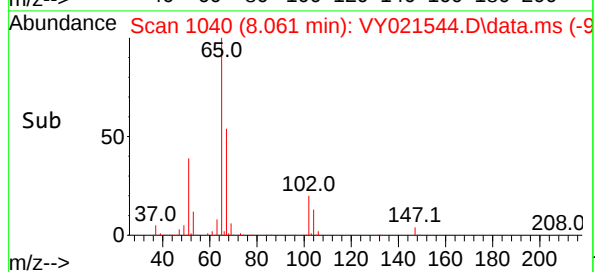
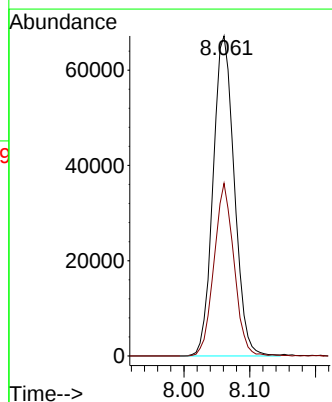
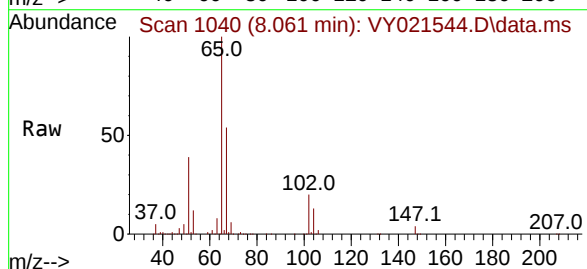
Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBL01

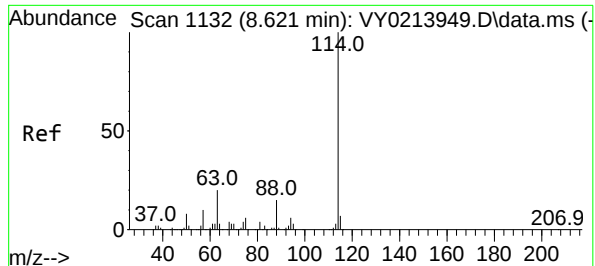
Tgt Ion:168 Resp: 272314
Ion Ratio Lower Upper
168 100
99 57.0 46.0 69.0



#33
1,2-Dichloroethane-d4
Concen: 52.545 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021544.D
Acq: 17 Mar 2025 10:39

Tgt Ion: 65 Resp: 151236
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1132

Delta R.T. -0.006 min

Lab File: VY021544.D

Acq: 17 Mar 2025 10:39

Instrument :

MSVOA_Y

ClientSampleId :

VY0317SBL01

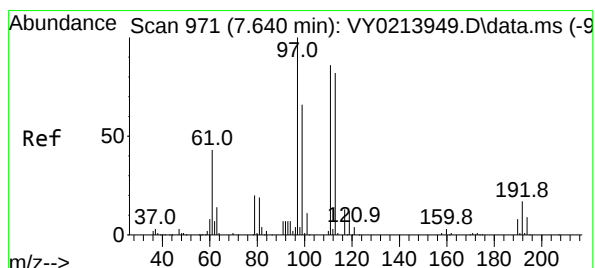
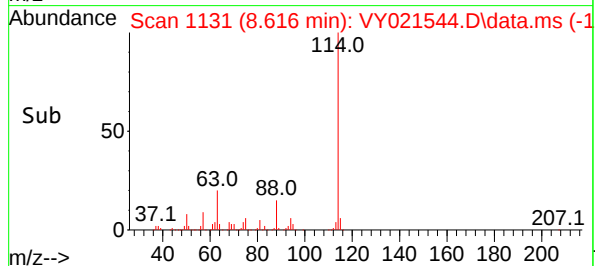
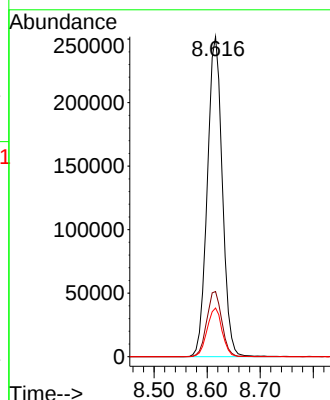
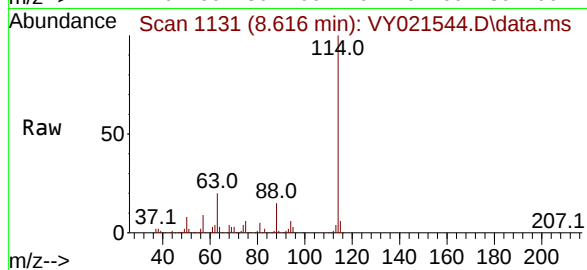
Tgt Ion:114 Resp: 493002

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

88 15.2 0.0 30.8



#35

Dibromofluoromethane

Concen: 50.103 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY021544.D

Acq: 17 Mar 2025 10:39

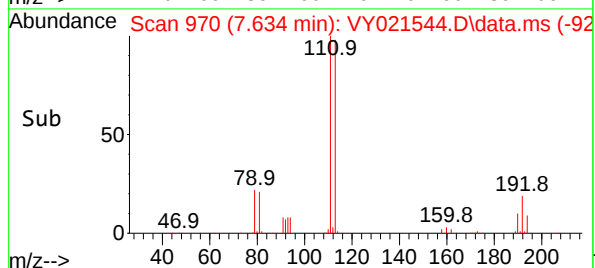
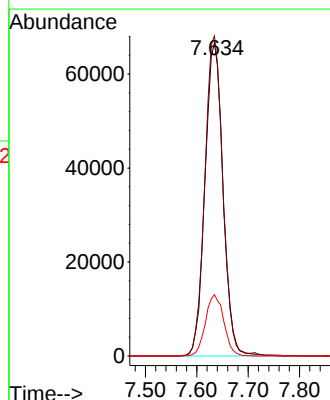
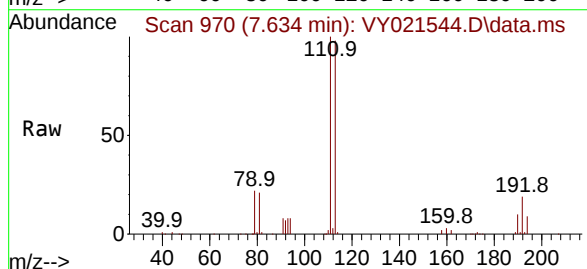
Tgt Ion:113 Resp: 162364

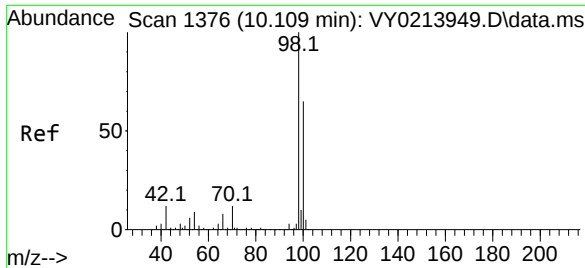
Ion Ratio Lower Upper

113 100

111 102.3 82.0 123.0

192 19.9 15.9 23.9





#50

Toluene-d8

Concen: 48.203 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021544.D

Acq: 17 Mar 2025 10:39

Instrument :

MSVOA_Y

ClientSampleId :

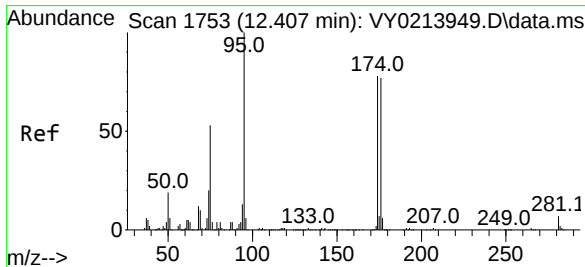
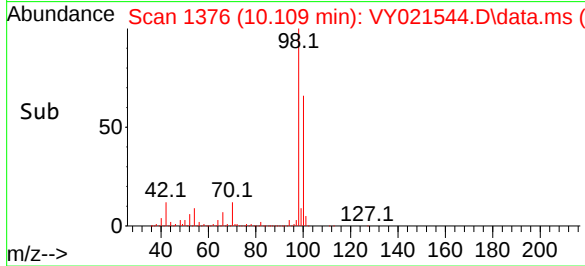
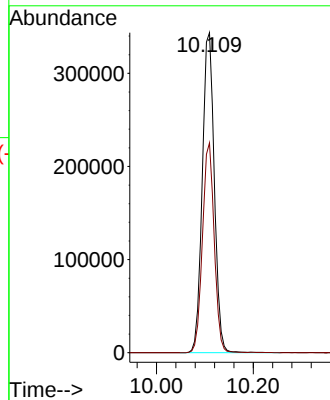
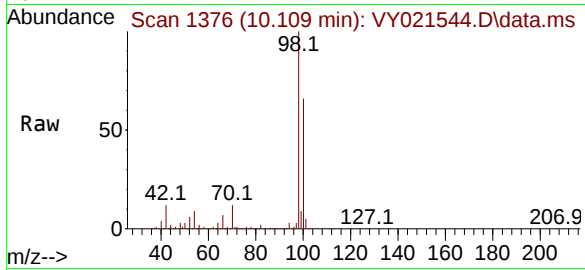
VY0317SBL01

Tgt Ion: 98 Resp: 591441

Ion Ratio Lower Upper

98 100

100 64.2 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 41.079 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY021544.D

Acq: 17 Mar 2025 10:39

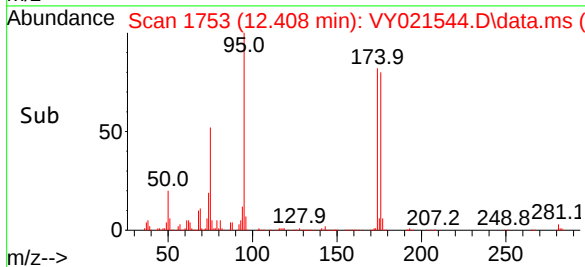
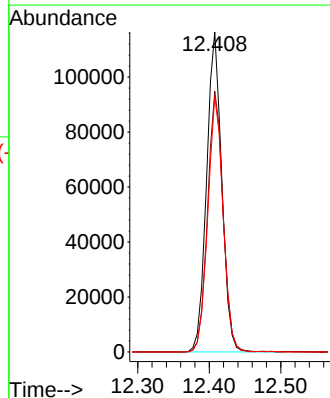
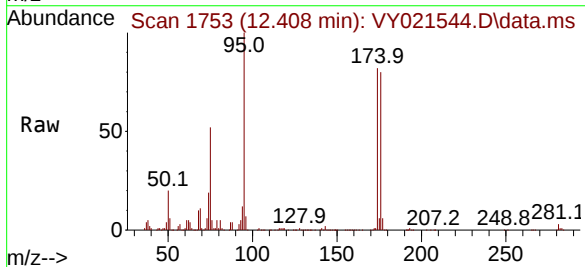
Tgt Ion: 95 Resp: 171451

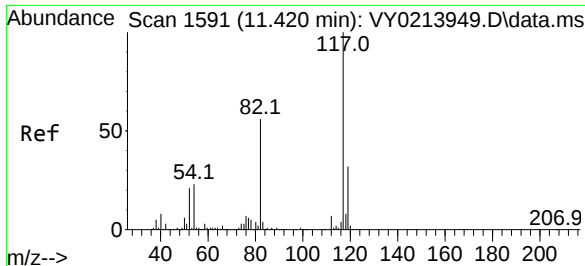
Ion Ratio Lower Upper

95 100

174 83.5 0.0 165.0

176 80.3 0.0 160.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 117

Delta R.T. -0.006 min

Lab File: VY021544.D

Acq: 17 Mar 2025 10:39

Instrument :

MSVOA_Y

ClientSampleId :

VY0317SBL01

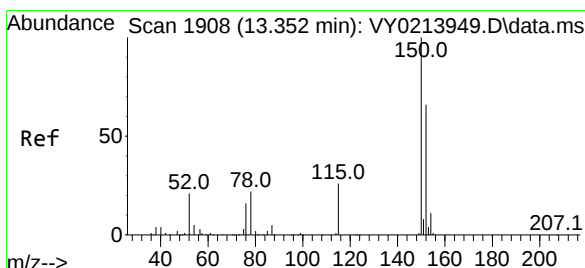
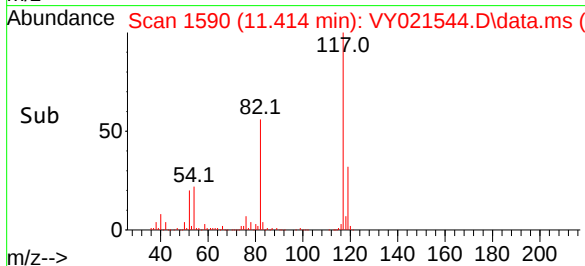
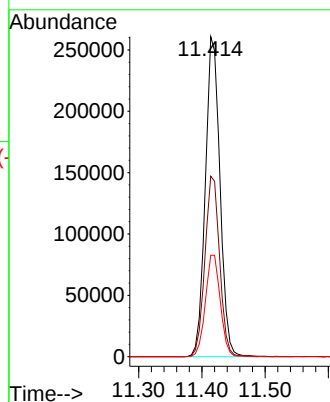
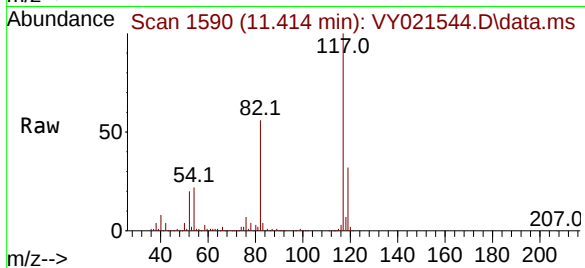
Tgt Ion:117 Resp: 420924

Ion Ratio Lower Upper

117 100

82 56.4 44.6 67.0

119 31.7 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY021544.D

Acq: 17 Mar 2025 10:39

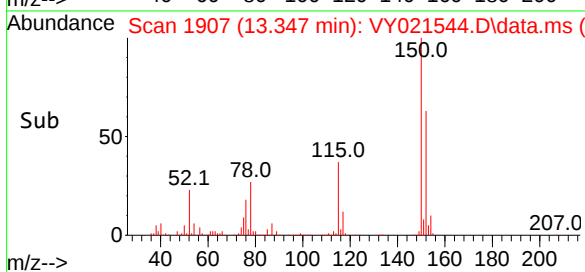
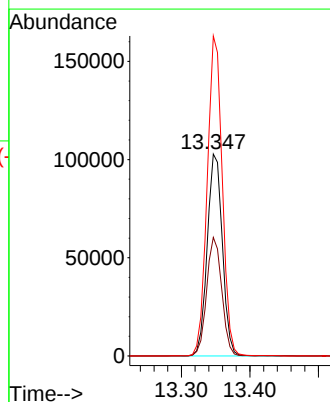
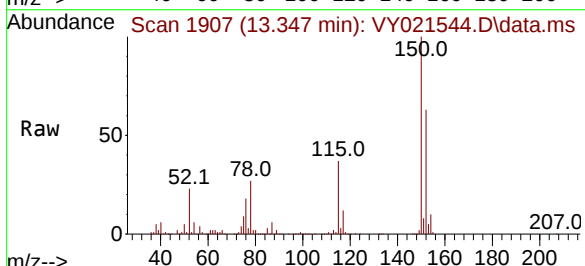
Tgt Ion:152 Resp: 158203

Ion Ratio Lower Upper

152 100

115 58.7 29.0 87.0

150 157.5 0.0 347.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021544.D
Acq On : 17 Mar 2025 10:39
Operator : SY/MD
Sample : VY0317SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M

Title : SW846 8260

Signal : TIC: VY021544.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.909	840	851	854	rBV3	5510	16941	1.06%	0.213%
2	7.634	960	970	976	rBV	225948	552926	34.76%	6.961%
3	7.707	976	982	995	rVB	360132	814631	51.20%	10.255%
4	8.061	1029	1040	1052	rBV	192099	449469	28.25%	5.658%
5	8.616	1121	1131	1145	rBV	591476	1168708	73.46%	14.713%
6	10.109	1367	1376	1396	rBV	915093	1590924	100.00%	20.028%
7	10.512	1435	1442	1449	rVB	26716	49257	3.10%	0.620%
8	10.884	1496	1503	1512	rBV3	7083	17666	1.11%	0.222%
9	11.249	1558	1563	1570	rVB3	10795	18480	1.16%	0.233%
10	11.414	1583	1590	1603	rBV	816209	1336405	84.00%	16.824%
11	12.408	1743	1753	1764	rBV	605578	943278	59.29%	11.875%
12	13.347	1901	1907	1918	rBV	649321	984750	61.90%	12.397%

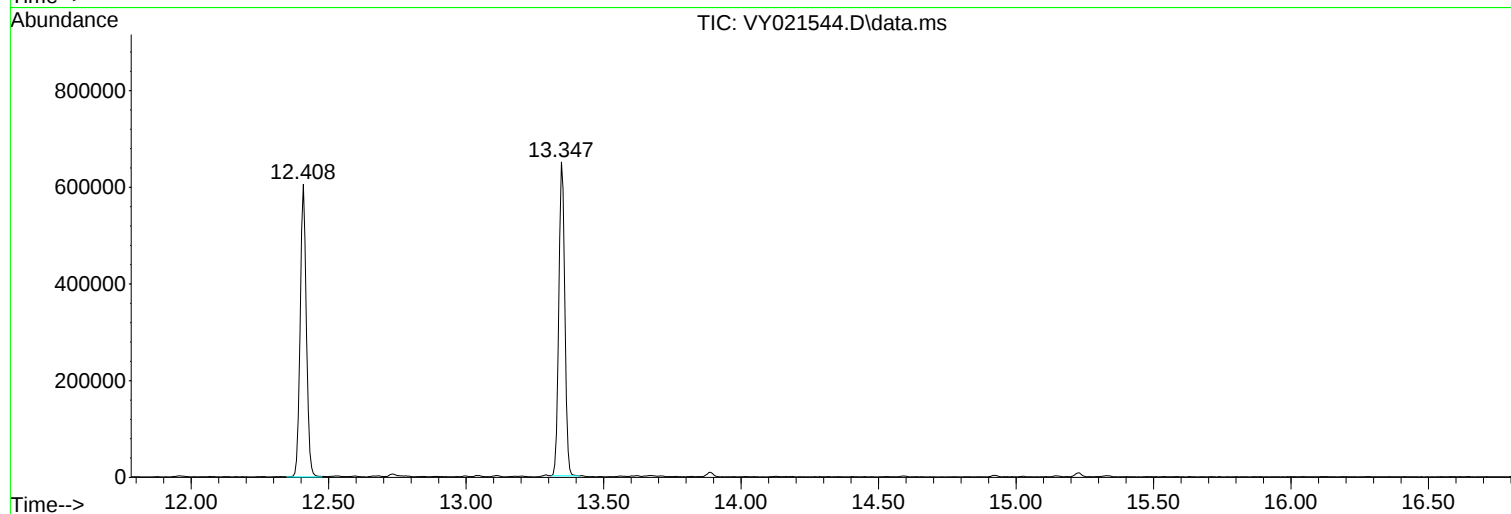
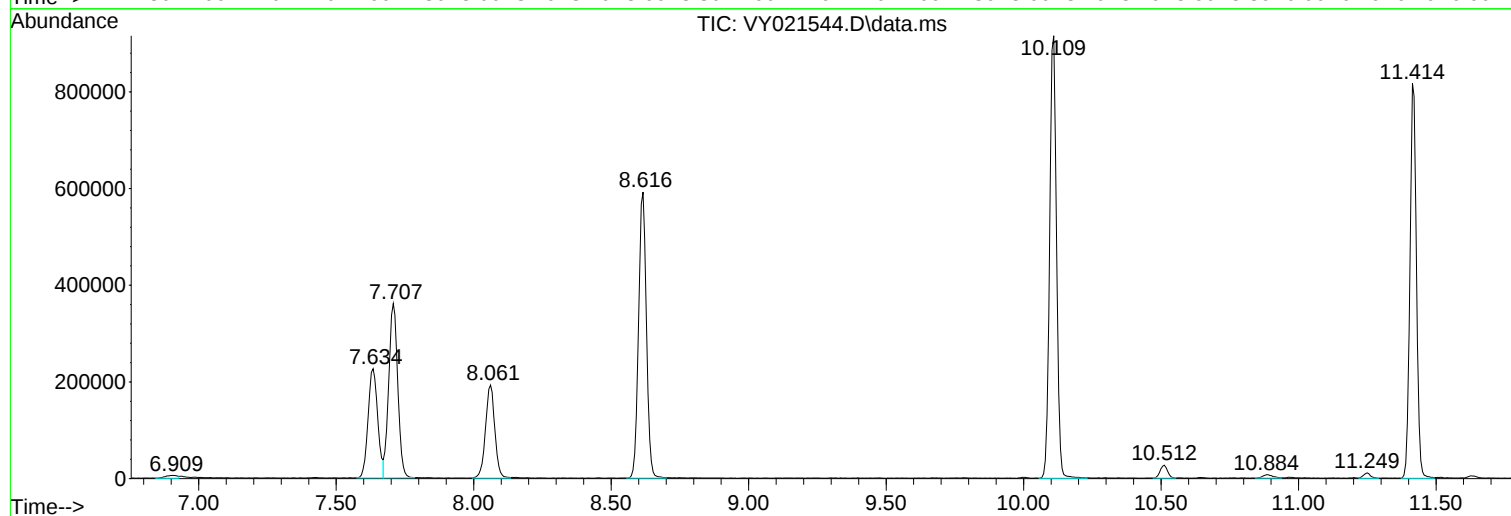
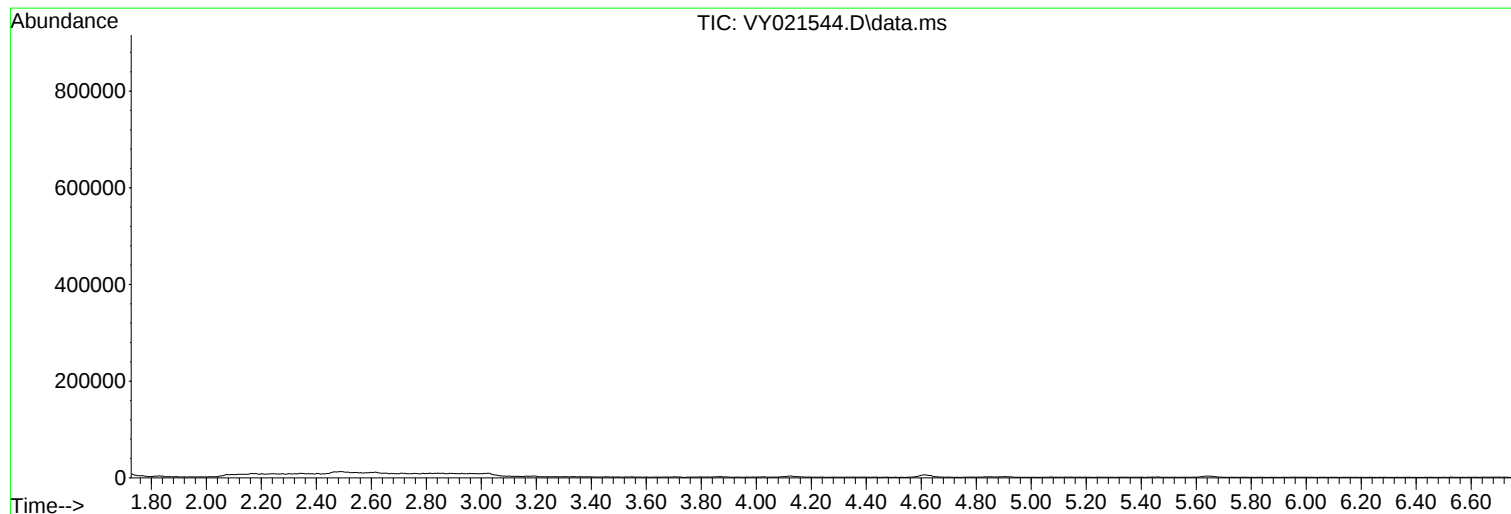
Sum of corrected areas: 7943435

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021544.D
Acq On : 17 Mar 2025 10:39
Operator : SY/MD
Sample : VY0317SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021544.D
Acq On : 17 Mar 2025 10:39
Operator : SY/MD
Sample : VY0317SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A
B
C
D
E
F
G
H
I
J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021544.D
Acq On : 17 Mar 2025 10:39
Operator : SY/MD
Sample : VY0317SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBL01

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
 Data File : VY021545.D
 Acq On : 17 Mar 2025 12:49
 Operator : SY/MD
 Sample : VY0317SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0317SBS01

Quant Time: Mar 18 01:26:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/18/2025
 Supervised By :Semsettin Yesilyurt 03/18/2025

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	209203	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	320346	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	284395	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	146283	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	114896	51.962	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 103.920%	
35) Dibromofluoromethane	7.634	113	108339	51.451	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.900%	
50) Toluene-d8	10.109	98	399912	50.160	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.320%	
62) 4-Bromofluorobenzene	12.408	95	137449	50.682	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 101.360%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	37082	19.316	ug/l	98
3) Chloromethane	2.068	50	53477	19.758	ug/l	100
4) Vinyl Chloride	2.202	62	62796	21.231	ug/l	98
5) Bromomethane	2.586	94	43503	20.350	ug/l	97
6) Chloroethane	2.733	64	45193	23.121	ug/l	98
7) Trichlorofluoromethane	3.056	101	100773	24.409	ug/l	98
8) Diethyl Ether	3.452	74	27395	23.944	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	50420	21.391	ug/l	99
10) Methyl Iodide	4.001	142	49997	20.867	ug/l	100
11) Tert butyl alcohol	4.848	59	22139	144.485	ug/l #	72
12) 1,1-Dichloroethene	3.787	96	44961	20.922	ug/l	94
13) Acrolein	3.653	56	15875	141.152	ug/l	93
14) Allyl chloride	4.379	41	71393	20.558	ug/l	99
15) Acrylonitrile	5.055	53	56534	116.078	ug/l	96
16) Acetone	3.866	43	80850	167.644	ug/l	92
17) Carbon Disulfide	4.104	76	126355	18.762	ug/l	98
18) Methyl Acetate	4.385	43	24489	22.885	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	117760	21.620	ug/l	96
20) Methylene Chloride	4.616	84	53421	21.102	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	47977	19.935	ug/l	97
22) Diisopropyl ether	6.019	45	158451	21.171	ug/l	97
23) Vinyl Acetate	5.958	43	459261	107.522	ug/l	100
24) 1,1-Dichloroethane	5.915	63	91270	20.662	ug/l	97
25) 2-Butanone	6.890	43	92278	138.321	ug/l	100
26) 2,2-Dichloropropane	6.884	77	84157	20.706	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	56414	20.634	ug/l	99
28) Bromochloromethane	7.244	49	38379	20.724	ug/l	99
29) Tetrahydrofuran	7.256	42	47999	116.545	ug/l	99
30) Chloroform	7.421	83	97771	21.316	ug/l	96
31) Cyclohexane	7.701	56	78880	19.048	ug/l	94
32) 1,1,1-Trichloroethane	7.616	97	87249	20.774	ug/l	99
36) 1,1-Dichloropropene	7.835	75	67987	20.627	ug/l	99
37) Ethyl Acetate	6.982	43	33708	23.138	ug/l	98
38) Carbon Tetrachloride	7.817	117	78935	20.823	ug/l	98
39) Methylcyclohexane	9.109	83	78157	19.331	ug/l	97
40) Benzene	8.079	78	203296	20.938	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
 Data File : VY021545.D
 Acq On : 17 Mar 2025 12:49
 Operator : SY/MD
 Sample : VY0317SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0317SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/18/2025
 Supervised By :Semsettin Yesilyurt 03/18/2025

Quant Time: Mar 18 01:26:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	16991	21.420	ug/l #	92
42) 1,2-Dichloroethane	8.158	62	59580	21.935	ug/l	100
43) Isopropyl Acetate	8.195	43	62162	21.981	ug/l	98
44) Trichloroethene	8.866	130	51285	20.902	ug/l	99
45) 1,2-Dichloropropane	9.140	63	48890	21.157	ug/l	94
46) Dibromomethane	9.231	93	28568	22.218	ug/l	97
47) Bromodichloromethane	9.420	83	72821	21.326	ug/l	98
48) Methyl methacrylate	9.219	41	27932	21.509	ug/l	95
49) 1,4-Dioxane	9.231	88	6499	514.962	ug/l	98
51) 4-Methyl-2-Pentanone	10.000	43	170370	116.758	ug/l	98
52) Toluene	10.170	92	126742	20.705	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	64374	21.398	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	76790	21.500	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	37559	22.331	ug/l	97
56) Ethyl methacrylate	10.438	69	46681	21.762	ug/l	99
57) 1,3-Dichloropropane	10.719	76	63718	21.858	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	115671	116.815	ug/l	99
59) 2-Hexanone	10.762	43	128877	133.573	ug/l	98
60) Dibromochloromethane	10.914	129	50969	22.105	ug/l	97
61) 1,2-Dibromoethane	11.018	107	34040	21.444	ug/l	98
64) Tetrachloroethene	10.646	164	56528	24.444	ug/l	95
65) Chlorobenzene	11.444	112	138094	20.562	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	49463	20.832	ug/l	98
67) Ethyl Benzene	11.518	91	236170	20.035	ug/l	100
68) m/p-Xylenes	11.627	106	182629	40.809	ug/l	100
69) o-Xylene	11.957	106	82830	20.082	ug/l	96
70) Styrene	11.969	104	140028	20.465	ug/l	99
71) Bromoform	12.133	173	29832	22.476	ug/l #	99
73) Isopropylbenzene	12.255	105	229585	19.924	ug/l	99
74) N-amyl acetate	12.072	43	52463	20.964	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	42965	21.129	ug/l	100
76) 1,2,3-Trichloropropane	12.560	75	27346m	18.551	ug/l	
77) Bromobenzene	12.536	156	54044	20.047	ug/l	100
78) n-propylbenzene	12.597	91	278424	19.895	ug/l	100
79) 2-Chlorotoluene	12.682	91	158371	19.791	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	189235	20.208	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.304	75	13093	20.192	ug/l	98
82) 4-Chlorotoluene	12.780	91	166075	20.042	ug/l	100
83) tert-Butylbenzene	12.999	119	165804	19.848	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	187285	20.143	ug/l	99
85) sec-Butylbenzene	13.176	105	249213	20.050	ug/l	99
86) p-Isopropyltoluene	13.292	119	207009	20.216	ug/l	100
87) 1,3-Dichlorobenzene	13.292	146	107290	19.994	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	107122	20.412	ug/l	99
89) n-Butylbenzene	13.621	91	188538	19.939	ug/l	100
90) Hexachloroethane	13.883	117	43899	20.096	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	96554	20.993	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	6381	20.949	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	50586	20.137	ug/l	97
94) Hexachlorobutadiene	15.029	225	33597	21.335	ug/l	98
95) Naphthalene	15.145	128	80499	20.966	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	43848	20.753	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021545.D
Acq On : 17 Mar 2025 12:49
Operator : SY/MD
Sample : VY0317SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/18/2025
Supervised By :Semsettin Yesilyurt 03/18/2025

Quant Time: Mar 18 01:26:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

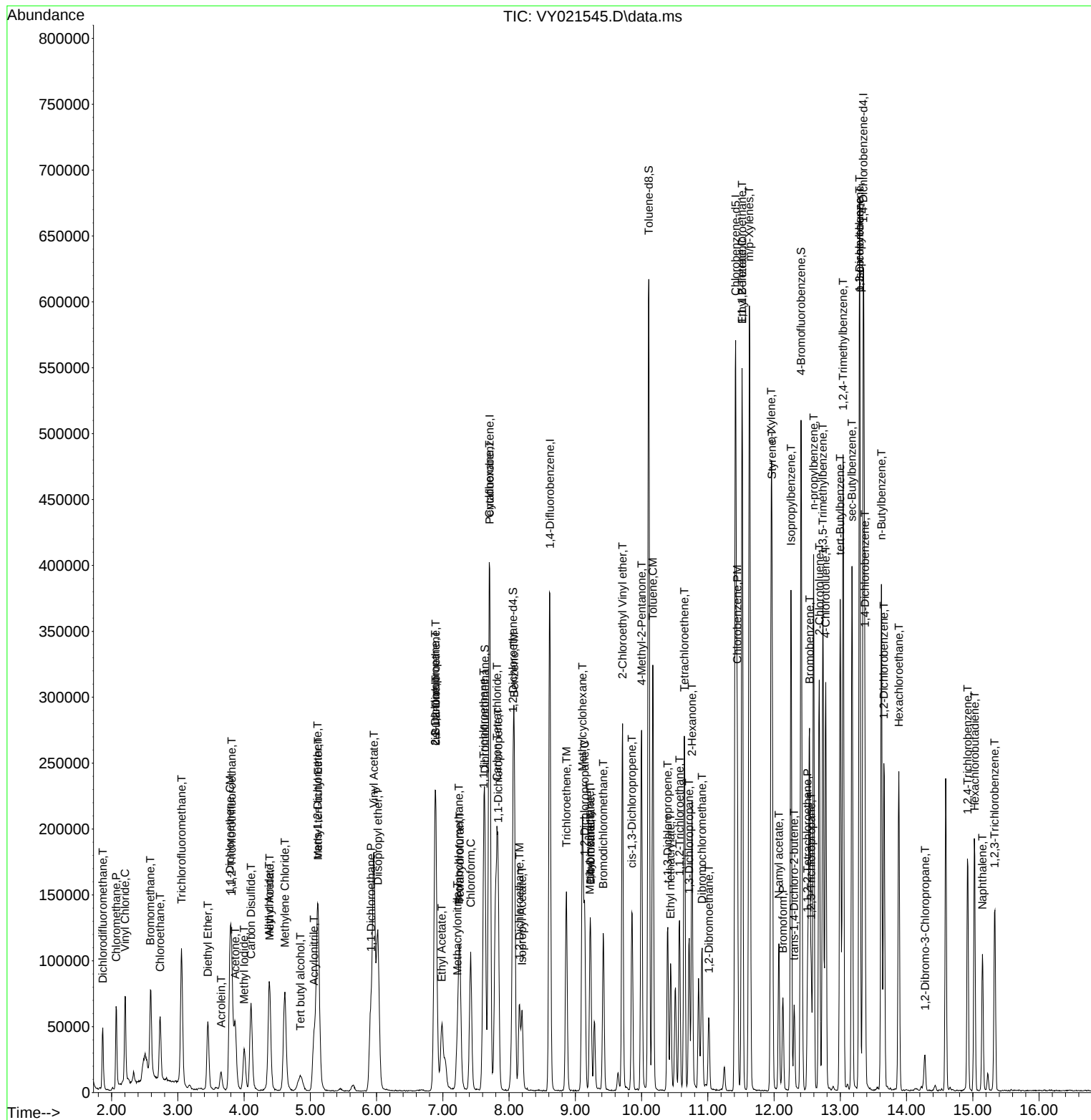
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021545.D
Acq On : 17 Mar 2025 12:49
Operator : SY/MD
Sample : VY0317SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBS01

Manual Integrations

Reviewed By :Mahesh Dadoda 03/18/2025
Supervised By :Semsettin Yesilyurt 03/18/2025

Quant Time: Mar 18 01:26:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
 Data File : VY021546.D
 Acq On : 17 Mar 2025 13:12
 Operator : SY/MD
 Sample : VY0317SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0317SBS01

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 03/18/2025
 Supervised By : Semsettin Yesilyurt 03/18/2025

Quant Time: Mar 18 01:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	219903	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	338794	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	299964	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	155756	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	119661	51.484	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.960%	
35) Dibromofluoromethane	7.634	113	113056	50.767	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.540%	
50) Toluene-d8	10.103	98	423789	50.260	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.520%	
62) 4-Bromofluorobenzene	12.408	95	144304	50.312	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 100.620%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	32776	16.242	ug/l	96
3) Chloromethane	2.068	50	48277	16.969	ug/l	96
4) Vinyl Chloride	2.202	62	56684	18.232	ug/l	97
5) Bromomethane	2.586	94	39983	17.793	ug/l	95
6) Chloroethane	2.732	64	37764	18.380	ug/l	96
7) Trichlorofluoromethane	3.056	101	77327	17.819	ug/l	100
8) Diethyl Ether	3.452	74	21452	17.838	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	44271	17.868	ug/l	99
10) Methyl Iodide	4.001	142	44913	17.833	ug/l	98
11) Tert butyl alcohol	4.848	59	18906	112.736	ug/l #	72
12) 1,1-Dichloroethene	3.787	96	38423	17.010	ug/l	97
13) Acrolein	3.653	56	12750	107.850	ug/l	88
14) Allyl chloride	4.379	41	62873	17.223	ug/l	100
15) Acrylonitrile	5.055	53	48687	95.102	ug/l	100
16) Acetone	3.866	43	60240	118.831	ug/l	97
17) Carbon Disulfide	4.104	76	110858	15.660	ug/l	100
18) Methyl Acetate	4.385	43	22532	20.032	ug/l	97
19) Methyl tert-butyl Ether	5.110	73	102683	17.935	ug/l	99
20) Methylene Chloride	4.610	84	48160	18.098	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	43723	17.284	ug/l	90
22) Diisopropyl ether	6.018	45	141879	18.035	ug/l	99
23) Vinyl Acetate	5.958	43	406268	90.487	ug/l	100
24) 1,1-Dichloroethane	5.909	63	84110	18.115	ug/l	99
25) 2-Butanone	6.896	43	73617	104.980	ug/l	97
26) 2,2-Dichloropropane	6.884	77	74511	17.441	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	50556	17.592	ug/l	99
28) Bromochloromethane	7.244	49	38964	20.017	ug/l	99
29) Tetrahydrofuran	7.262	42	40955	94.603	ug/l	99
30) Chloroform	7.421	83	87417	18.131	ug/l	100
31) Cyclohexane	7.701	56	68851	15.817	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	77460	17.546	ug/l	100
36) 1,1-Dichloropropene	7.835	75	58932	16.906	ug/l	99
37) Ethyl Acetate	6.988	43	29067	18.866	ug/l	99
38) Carbon Tetrachloride	7.817	117	70130	17.493	ug/l	97
39) Methylcyclohexane	9.109	83	68897	16.113	ug/l	95
40) Benzene	8.079	78	180505	17.578	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
 Data File : VY021546.D
 Acq On : 17 Mar 2025 13:12
 Operator : SY/MD
 Sample : VY0317SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0317SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/18/2025
 Supervised By :Semsettin Yesilyurt 03/18/2025

Quant Time: Mar 18 01:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	15342	18.288	ug/l #	91
42) 1,2-Dichloroethane	8.158	62	52817	18.386	ug/l	100
43) Isopropyl Acetate	8.195	43	56333	18.835	ug/l #	89
44) Trichloroethene	8.866	130	46598	17.958	ug/l	98
45) 1,2-Dichloropropane	9.140	63	43905	17.965	ug/l	98
46) Dibromomethane	9.231	93	25495	18.749	ug/l	98
47) Bromodichloromethane	9.420	83	66316	18.364	ug/l	99
48) Methyl methacrylate	9.219	41	25101	18.276	ug/l	99
49) 1,4-Dioxane	9.225	88	5377	402.858	ug/l	95
51) 4-Methyl-2-Pentanone	9.999	43	147807	95.779	ug/l	98
52) Toluene	10.170	92	112662	17.402	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	58681	18.444	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	68654	18.175	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	34138	19.192	ug/l	95
56) Ethyl methacrylate	10.438	69	41358	18.231	ug/l	98
57) 1,3-Dichloropropane	10.713	76	58475	18.967	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	109668	104.722	ug/l	99
59) 2-Hexanone	10.762	43	104581	102.489	ug/l	98
60) Dibromochloromethane	10.914	129	45717	18.747	ug/l	99
61) 1,2-Dibromoethane	11.018	107	30558	18.202	ug/l	99
64) Tetrachloroethene	10.646	164	50211	20.585	ug/l	96
65) Chlorobenzene	11.444	112	126601	17.873	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.518	131	44474	17.759	ug/l	98
67) Ethyl Benzene	11.518	91	213408	17.165	ug/l	99
68) m/p-Xylenes	11.627	106	163262	34.588	ug/l	99
69) o-Xylene	11.956	106	75909	17.449	ug/l	100
70) Styrene	11.969	104	126980	17.595	ug/l	99
71) Bromoform	12.133	173	26283	18.774	ug/l #	100
73) Isopropylbenzene	12.255	105	204413	16.660	ug/l	99
74) N-amyl acetate	12.072	43	46299	17.376	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	37964	17.534	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	28030m	17.859	ug/l	
77) Bromobenzene	12.530	156	49501	17.245	ug/l	100
78) n-propylbenzene	12.597	91	248018	16.645	ug/l	99
79) 2-Chlorotoluene	12.682	91	141192	16.572	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	168556	16.905	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	11299	16.366	ug/l	98
82) 4-Chlorotoluene	12.779	91	152135	17.243	ug/l	100
83) tert-Butylbenzene	12.999	119	149468	16.804	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	169665	17.138	ug/l	98
85) sec-Butylbenzene	13.176	105	219555	16.590	ug/l	99
86) p-Isopropyltoluene	13.292	119	184520	16.924	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	97835	17.123	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	97134	17.383	ug/l	99
89) n-Butylbenzene	13.615	91	168493	16.736	ug/l	99
90) Hexachloroethane	13.877	117	39160	16.836	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	86355	17.634	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5870	18.099	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	45729	17.096	ug/l	96
94) Hexachlorobutadiene	15.023	225	29255	17.448	ug/l	98
95) Naphthalene	15.145	128	74445	18.488	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	39971	17.768	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
Data File : VY021546.D
Acq On : 17 Mar 2025 13:12
Operator : SY/MD
Sample : VY0317SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/18/2025
Supervised By :Semsettin Yesilyurt 03/18/2025

Quant Time: Mar 18 01:26:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

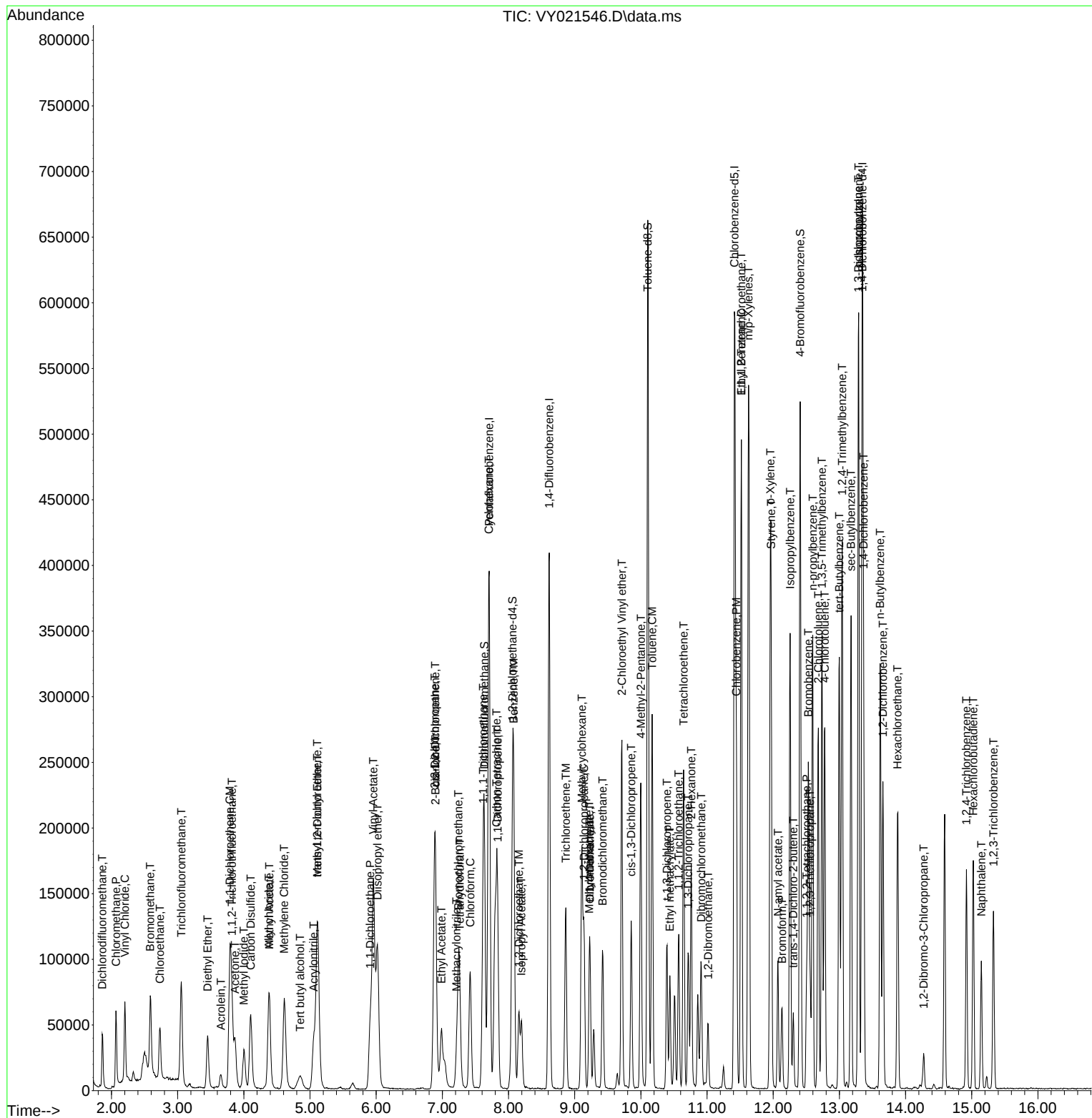
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VY0317SBSD01

Manual Integrations

Reviewed By :Mahesh Dadoda 03/18/2025
Supervised By :Semsettin Yesilyurt 03/18/2025



Manual Integration Report

Sequence:	VY030425	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC010	VY021397.D	1,2,3-Trichloropropane	MMDadod a	3/6/2025 2:55:34 PM	SAM	3/6/2025 3:00:08 PM	Peak Integrated by Software
VSTDICC010	VY021397.D	Methacrylonitrile	MMDadod a	3/6/2025 2:55:34 PM	SAM	3/6/2025 3:00:08 PM	Peak Integrated by Software
VSTDICC010	VY021397.D	Tert butyl alcohol	MMDadod a	3/6/2025 2:55:34 PM	SAM	3/6/2025 3:00:08 PM	Peak Integrated by Software
VSTDICC020	VY021398.D	1,2,3-Trichloropropane	MMDadod a	3/6/2025 2:55:33 PM	SAM	3/6/2025 3:00:07 PM	Peak Integrated by Software
VSTDICC020	VY021398.D	Ethyl Acetate	MMDadod a	3/6/2025 2:55:33 PM	SAM	3/6/2025 3:00:07 PM	Peak Integrated by Software
VSTDICCC050	VY021399.D	1,2,3-Trichloropropane	MMDadod a	3/6/2025 2:55:35 PM	SAM	3/6/2025 3:00:06 PM	Peak Integrated by Software
VSTDICC100	VY021400.D	1,2,3-Trichloropropane	MMDadod a	3/6/2025 2:55:49 PM	SAM	3/6/2025 3:00:09 PM	Peak Integrated by Software
VSTDICC150	VY021401.D	1,2,3-Trichloropropane	MMDadod a	3/6/2025 2:55:42 PM	SAM	3/6/2025 3:00:14 PM	Peak Integrated by Software
VSTDICC005	VY021403.D	1,2,3-Trichloropropane	MMDadod a	3/6/2025 2:55:43 PM	SAM	3/6/2025 3:00:17 PM	Peak Integrated by Software
VSTDICC005	VY021403.D	Ethyl Acetate	MMDadod a	3/6/2025 2:55:43 PM	SAM	3/6/2025 3:00:17 PM	Peak Integrated by Software
VSTDICV050	VY021404.D	1,2,3-Trichloropropane	MMDadod a	3/6/2025 2:55:47 PM	SAM	3/6/2025 3:00:16 PM	Peak Integrated by Software
VSTDICV050	VY021404.D	Methacrylonitrile	MMDadod a	3/6/2025 2:55:47 PM	SAM	3/6/2025 3:00:16 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VY030425

Instrument

MSVOA_y

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

vy031725

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021543.D	1,2,3-Trichloropropane	MMDadoda	3/18/2025 1:55:58 PM	SAM	3/18/2025 1:57:56 PM	Peak Integrated by Software
VY0317SBS01	VY021545.D	1,2,3-Trichloropropane	MMDadoda	3/18/2025 1:55:59 PM	SAM	3/18/2025 1:57:56 PM	Peak Integrated by Software
VY0317SBSD01	VY021546.D	1,2,3-Trichloropropane	MMDadoda	3/18/2025 1:56:01 PM	SAM	3/18/2025 1:57:58 PM	Peak Integrated by Software
VSTDCCC050	VY021554.D	1,2,3-Trichloropropane	MMDadoda	3/18/2025 1:56:02 PM	SAM	3/18/2025 1:58:01 PM	Peak Integrated by Software

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY030425

Review By	Mahesh Dadoda	Review On	3/5/2025 12:14:39 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/5/2025 12:18:08 PM		
SubDirectory	VY030425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP133216			
Initial Calibration Stds		VP133207,VP133208,VP133209,VP133210,VP133211,VP133212			
CCC		VP133214,VP133215			
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP133213			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021395.D	04 Mar 2025 08:52	SY/MD	Ok
2	VSTDIC005	VY021396.D	04 Mar 2025 09:23	SY/MD	Not Ok
3	VSTDIC010	VY021397.D	04 Mar 2025 09:46	SY/MD	Ok,M
4	VSTDIC020	VY021398.D	04 Mar 2025 10:09	SY/MD	Ok,M
5	VSTDIC050	VY021399.D	04 Mar 2025 10:30	SY/MD	Ok,M
6	VSTDIC100	VY021400.D	04 Mar 2025 11:06	SY/MD	Ok,M
7	VSTDIC150	VY021401.D	04 Mar 2025 11:29	SY/MD	Ok,M
8	VIBLK	VY021402.D	04 Mar 2025 11:52	SY/MD	Ok
9	VSTDIC005	VY021403.D	04 Mar 2025 12:15	SY/MD	Ok,M
10	VSTDICV050	VY021404.D	04 Mar 2025 13:12	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY031725

Review By	Mahesh Dadoda	Review On	3/18/2025 1:56:06 PM
Supervise By	Semsettin Yesilyurt	Supervise On	3/18/2025 1:58:06 PM
SubDirectory	VY031725	HP Acquire Method	HP Processing Method 82y030425s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133309		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133310,VP133311 VP131783		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021542.D	17 Mar 2025 09:26	SY/MD	Ok
2	VSTDCCC050	VY021543.D	17 Mar 2025 10:04	SY/MD	Ok,M
3	VY0317SBL01	VY021544.D	17 Mar 2025 10:39	SY/MD	Ok
4	VY0317SBS01	VY021545.D	17 Mar 2025 12:49	SY/MD	Ok,M
5	VY0317SBSD01	VY021546.D	17 Mar 2025 13:12	SY/MD	Ok,M
6	Q1585-01	VY021547.D	17 Mar 2025 13:39	SY/MD	ReRun
7	Q1581-01	VY021548.D	17 Mar 2025 14:03	SY/MD	Not Ok
8	Q1574-01	VY021549.D	17 Mar 2025 14:26	SY/MD	ReRun
9	Q1585-01RE	VY021550.D	17 Mar 2025 15:08	SY/MD	Confirms
10	Q1581-01	VY021551.D	17 Mar 2025 15:32	SY/MD	Not Ok
11	Q1574-01RE	VY021552.D	17 Mar 2025 15:55	SY/MD	Confirms
12	VY0317SBS02	VY021553.D	17 Mar 2025 16:18	SY/MD	Not Ok
13	VSTDCCC050	VY021554.D	17 Mar 2025 16:40	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY030425

Review By	Mahesh Dadoda	Review On	3/5/2025 12:14:39 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/5/2025 12:18:08 PM		
SubDirectory	VY030425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP133216			
Initial Calibration Stds		VP133207,VP133208,VP133209,VP133210,VP133211,VP133212			
CCC		VP133214,VP133215			
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP133213			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021395.D	04 Mar 2025 08:52		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021396.D	04 Mar 2025 09:23	not used	SY/MD	Not Ok
3	VSTDICC010	VSTDICC010	VY021397.D	04 Mar 2025 09:46		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021398.D	04 Mar 2025 10:09	Comp.#11 is on Linear Regression	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021399.D	04 Mar 2025 10:30	Comp.#95 is on Quadratic Regression	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021400.D	04 Mar 2025 11:06		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY021401.D	04 Mar 2025 11:29	Method fail for comp.#13	SY/MD	Ok,M
8	VIBLK	VIBLK	VY021402.D	04 Mar 2025 11:52		SY/MD	Ok
9	VSTDICC005	VSTDICC005	VY021403.D	04 Mar 2025 12:15		SY/MD	Ok,M
10	VSTDICV050	ICVVY030425	VY021404.D	04 Mar 2025 13:12		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY031725

Review By	Maresh Dadoda	Review On	3/18/2025 1:56:06 PM
Supervise By	Semsettin Yesilyurt	Supervise On	3/18/2025 1:58:06 PM
SubDirectory	VY031725	HP Acquire Method	HP Processing Method 82y030425s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133309		
CCC	VP133310,VP133311		
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	VY021542.D	17 Mar 2025 09:26		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021543.D	17 Mar 2025 10:04		SY/MD	Ok,M
3	VY0317SBL01	VY0317SBL01	VY021544.D	17 Mar 2025 10:39		SY/MD	Ok
4	VY0317SBS01	VY0317SBS01	VY021545.D	17 Mar 2025 12:49		SY/MD	Ok,M
5	VY0317SBSD01	VY0317SBSD01	VY021546.D	17 Mar 2025 13:12		SY/MD	Ok,M
6	Q1585-01	OK-02-03142025	VY021547.D	17 Mar 2025 13:39	Internal Standard Fail;Surrogate Fail	SY/MD	ReRun
7	Q1581-01	TR-06-031425	VY021548.D	17 Mar 2025 14:03	Not purge	SY/MD	Not Ok
8	Q1574-01	WC1	VY021549.D	17 Mar 2025 14:26	Internal Standard Fail	SY/MD	ReRun
9	Q1585-01RE	OK-02-03142025RE	VY021550.D	17 Mar 2025 15:08	Internal Standard Fail	SY/MD	Confirms
10	Q1581-01	TR-06-031425	VY021551.D	17 Mar 2025 15:32	Not purge	SY/MD	Not Ok
11	Q1574-01RE	WC1RE	VY021552.D	17 Mar 2025 15:55	Internal Standard Fail	SY/MD	Confirms
12	VY0317SBS02	VY0317SBS02	VY021553.D	17 Mar 2025 16:18	Not Required	SY/MD	Not Ok
13	VSTDCCC050	VSTDCCC050EC	VY021554.D	17 Mar 2025 16:40		SY/MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q1574	OrderDate:	3/14/2025 11:25:00 AM
Client:	G Environmental	Project:	Ave L
Contact:	Gary Landis	Location:	I41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1574-01	WC1	SOIL	VOC-TCLVOA-10	8260D	03/12/25		03/17/25	03/14/25
Q1574-01RE	WC1RE	SOIL	VOC-TCLVOA-10	8260D	03/12/25		03/17/25	03/14/25