



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q3649

Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	DUPE-0.5-1.0-20251114							
Q3649-04	DUPE-0.5-1.0-2025 SOIL	Acetone		28.8		4.30	22.7	ug/Kg
		Total Voc :		28.8				
		Total Concentration:		28.8				



SAMPLE DATA

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: B5-0.5-1.0-20251114
 Lab Sample ID: Q3649-02
 Analytical Method: 8260D
 Sample Wt/Vol: 7.34 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/14/25
 Date Received: 11/14/25
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 90.9
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.85	U	1	0.85	3.70	ug/Kg	11/19/25 12:52	VW111925
74-87-3	Chloromethane	0.85	U	1	0.85	3.70	ug/Kg	11/19/25 12:52	VW111925
75-01-4	Vinyl Chloride	0.59	U	1	0.59	3.70	ug/Kg	11/19/25 12:52	VW111925
74-83-9	Bromomethane	0.80	U	1	0.80	3.70	ug/Kg	11/19/25 12:52	VW111925
75-00-3	Chloroethane	0.94	U	1	0.94	3.70	ug/Kg	11/19/25 12:52	VW111925
75-69-4	Trichlorofluoromethane	0.91	U	1	0.91	3.70	ug/Kg	11/19/25 12:52	VW111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.79	U	1	0.79	3.70	ug/Kg	11/19/25 12:52	VW111925
75-35-4	1,1-Dichloroethene	0.75	U	1	0.75	3.70	ug/Kg	11/19/25 12:52	VW111925
67-64-1	Acetone	3.60	U	1	3.60	18.7	ug/Kg	11/19/25 12:52	VW111925
75-15-0	Carbon Disulfide	0.79	U	1	0.79	3.70	ug/Kg	11/19/25 12:52	VW111925
1634-04-4	Methyl tert-butyl Ether	0.55	U	1	0.55	3.70	ug/Kg	11/19/25 12:52	VW111925
79-20-9	Methyl Acetate	1.20	U	1	1.20	3.70	ug/Kg	11/19/25 12:52	VW111925
75-09-2	Methylene Chloride	2.60	U	1	2.60	7.50	ug/Kg	11/19/25 12:52	VW111925
156-60-5	trans-1,2-Dichloroethene	0.64	U	1	0.64	3.70	ug/Kg	11/19/25 12:52	VW111925
75-34-3	1,1-Dichloroethane	0.60	U	1	0.60	3.70	ug/Kg	11/19/25 12:52	VW111925
110-82-7	Cyclohexane	0.59	U	1	0.59	3.70	ug/Kg	11/19/25 12:52	VW111925
78-93-3	2-Butanone	4.90	U	1	4.90	18.7	ug/Kg	11/19/25 12:52	VW111925
56-23-5	Carbon Tetrachloride	0.73	U	1	0.73	3.70	ug/Kg	11/19/25 12:52	VW111925
156-59-2	cis-1,2-Dichloroethene	0.56	U	1	0.56	3.70	ug/Kg	11/19/25 12:52	VW111925
74-97-5	Bromochloromethane	0.86	U	1	0.86	3.70	ug/Kg	11/19/25 12:52	VW111925
67-66-3	Chloroform	0.63	U	1	0.63	3.70	ug/Kg	11/19/25 12:52	VW111925
71-55-6	1,1,1-Trichloroethane	0.70	U	1	0.70	3.70	ug/Kg	11/19/25 12:52	VW111925
108-87-2	Methylcyclohexane	0.68	U	1	0.68	3.70	ug/Kg	11/19/25 12:52	VW111925
71-43-2	Benzene	0.59	U	1	0.59	3.70	ug/Kg	11/19/25 12:52	VW111925
107-06-2	1,2-Dichloroethane	0.59	U	1	0.59	3.70	ug/Kg	11/19/25 12:52	VW111925
79-01-6	Trichloroethene	0.61	U	1	0.61	3.70	ug/Kg	11/19/25 12:52	VW111925
78-87-5	1,2-Dichloropropane	0.68	U	1	0.68	3.70	ug/Kg	11/19/25 12:52	VW111925
75-27-4	Bromodichloromethane	0.58	U	1	0.58	3.70	ug/Kg	11/19/25 12:52	VW111925
108-10-1	4-Methyl-2-Pentanone	2.70	U	1	2.70	18.7	ug/Kg	11/19/25 12:52	VW111925
108-88-3	Toluene	0.58	U	1	0.58	3.70	ug/Kg	11/19/25 12:52	VW111925
10061-02-6	t-1,3-Dichloropropene	0.49	U	1	0.49	3.70	ug/Kg	11/19/25 12:52	VW111925
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1	0.46	3.70	ug/Kg	11/19/25 12:52	VW111925
79-00-5	1,1,2-Trichloroethane	0.69	U	1	0.69	3.70	ug/Kg	11/19/25 12:52	VW111925
591-78-6	2-Hexanone	2.80	U	1	2.80	18.7	ug/Kg	11/19/25 12:52	VW111925
124-48-1	Dibromochloromethane	0.65	U	1	0.65	3.70	ug/Kg	11/19/25 12:52	VW111925
106-93-4	1,2-Dibromoethane	0.66	U	1	0.66	3.70	ug/Kg	11/19/25 12:52	VW111925
127-18-4	Tetrachloroethene	0.79	U	1	0.79	3.70	ug/Kg	11/19/25 12:52	VW111925
108-90-7	Chlorobenzene	0.68	U	1	0.68	3.70	ug/Kg	11/19/25 12:52	VW111925
100-41-4	Ethyl Benzene	0.50	U	1	0.50	3.70	ug/Kg	11/19/25 12:52	VW111925
179601-23-1	m/p-Xylenes	0.93	U	1	0.93	7.50	ug/Kg	11/19/25 12:52	VW111925
95-47-6	o-Xylene	0.61	U	1	0.61	3.70	ug/Kg	11/19/25 12:52	VW111925
100-42-5	Styrene	0.53	U	1	0.53	3.70	ug/Kg	11/19/25 12:52	VW111925
75-25-2	Bromoform	0.64	U	1	0.64	3.70	ug/Kg	11/19/25 12:52	VW111925

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: B5-0.5-1.0-20251114
 Lab Sample ID: Q3649-02
 Analytical Method: 8260D
 Sample Wt/Vol: 7.34 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/14/25
 Date Received: 11/14/25
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 90.9
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.58	U	1	0.58	3.70	ug/Kg	11/19/25 12:52	VW111925
79-34-5	1,1,2,2-Tetrachloroethane	0.91	U	1	0.91	3.70	ug/Kg	11/19/25 12:52	VW111925
541-73-1	1,3-Dichlorobenzene	1.30	U	1	1.30	3.70	ug/Kg	11/19/25 12:52	VW111925
106-46-7	1,4-Dichlorobenzene	1.20	U	1	1.20	3.70	ug/Kg	11/19/25 12:52	VW111925
95-50-1	1,2-Dichlorobenzene	1.10	U	1	1.10	3.70	ug/Kg	11/19/25 12:52	VW111925
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1	1.40	3.70	ug/Kg	11/19/25 12:52	VW111925
120-82-1	1,2,4-Trichlorobenzene	2.20	U	1	2.20	3.70	ug/Kg	11/19/25 12:52	VW111925
87-61-6	1,2,3-Trichlorobenzene	2.40	U	1	2.40	3.70	ug/Kg	11/19/25 12:52	VW111925

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	62.6			70 (63) - 130 (155)	125%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8			70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	45.9			70 (74) - 130 (123)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.6			70 (52) - 130 (138)	111%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	198000
540-36-3	1,4-Difluorobenzene	469000
3114-55-4	Chlorobenzene-d5	515000
3855-82-1	1,4-Dichlorobenzene-d4	242000

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: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: DUPE-0.5-1.0-20251114
 Lab Sample ID: Q3649-04
 Analytical Method: 8260D
 Sample Wt/Vol: 6.21 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/14/25
 Date Received: 11/14/25
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 88.7
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.00	U	1	1.00	4.50	ug/Kg	11/19/25 13:14	VW111925
74-87-3	Chloromethane	1.00	U	1	1.00	4.50	ug/Kg	11/19/25 13:14	VW111925
75-01-4	Vinyl Chloride	0.72	U	1	0.72	4.50	ug/Kg	11/19/25 13:14	VW111925
74-83-9	Bromomethane	0.97	U	1	0.97	4.50	ug/Kg	11/19/25 13:14	VW111925
75-00-3	Chloroethane	1.10	U	1	1.10	4.50	ug/Kg	11/19/25 13:14	VW111925
75-69-4	Trichlorofluoromethane	1.10	U	1	1.10	4.50	ug/Kg	11/19/25 13:14	VW111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	1	0.96	4.50	ug/Kg	11/19/25 13:14	VW111925
75-35-4	1,1-Dichloroethene	0.91	U	1	0.91	4.50	ug/Kg	11/19/25 13:14	VW111925
67-64-1	Acetone	28.8		1	4.30	22.7	ug/Kg	11/19/25 13:14	VW111925
75-15-0	Carbon Disulfide	0.96	U	1	0.96	4.50	ug/Kg	11/19/25 13:14	VW111925
1634-04-4	Methyl tert-butyl Ether	0.66	U	1	0.66	4.50	ug/Kg	11/19/25 13:14	VW111925
79-20-9	Methyl Acetate	1.40	U	1	1.40	4.50	ug/Kg	11/19/25 13:14	VW111925
75-09-2	Methylene Chloride	3.20	U	1	3.20	9.10	ug/Kg	11/19/25 13:14	VW111925
156-60-5	trans-1,2-Dichloroethene	0.78	U	1	0.78	4.50	ug/Kg	11/19/25 13:14	VW111925
75-34-3	1,1-Dichloroethane	0.73	U	1	0.73	4.50	ug/Kg	11/19/25 13:14	VW111925
110-82-7	Cyclohexane	0.72	U	1	0.72	4.50	ug/Kg	11/19/25 13:14	VW111925
78-93-3	2-Butanone	5.90	U	1	5.90	22.7	ug/Kg	11/19/25 13:14	VW111925
56-23-5	Carbon Tetrachloride	0.88	U	1	0.88	4.50	ug/Kg	11/19/25 13:14	VW111925
156-59-2	cis-1,2-Dichloroethene	0.68	U	1	0.68	4.50	ug/Kg	11/19/25 13:14	VW111925
74-97-5	Bromochloromethane	1.00	U	1	1.00	4.50	ug/Kg	11/19/25 13:14	VW111925
67-66-3	Chloroform	0.76	U	1	0.76	4.50	ug/Kg	11/19/25 13:14	VW111925
71-55-6	1,1,1-Trichloroethane	0.84	U	1	0.84	4.50	ug/Kg	11/19/25 13:14	VW111925
108-87-2	Methylcyclohexane	0.83	U	1	0.83	4.50	ug/Kg	11/19/25 13:14	VW111925
71-43-2	Benzene	0.72	U	1	0.72	4.50	ug/Kg	11/19/25 13:14	VW111925
107-06-2	1,2-Dichloroethane	0.72	U	1	0.72	4.50	ug/Kg	11/19/25 13:14	VW111925
79-01-6	Trichloroethene	0.74	U	1	0.74	4.50	ug/Kg	11/19/25 13:14	VW111925
78-87-5	1,2-Dichloropropane	0.83	U	1	0.83	4.50	ug/Kg	11/19/25 13:14	VW111925
75-27-4	Bromodichloromethane	0.71	U	1	0.71	4.50	ug/Kg	11/19/25 13:14	VW111925
108-10-1	4-Methyl-2-Pentanone	3.20	U	1	3.20	22.7	ug/Kg	11/19/25 13:14	VW111925
108-88-3	Toluene	0.71	U	1	0.71	4.50	ug/Kg	11/19/25 13:14	VW111925
10061-02-6	t-1,3-Dichloropropene	0.59	U	1	0.59	4.50	ug/Kg	11/19/25 13:14	VW111925
10061-01-5	cis-1,3-Dichloropropene	0.56	U	1	0.56	4.50	ug/Kg	11/19/25 13:14	VW111925
79-00-5	1,1,2-Trichloroethane	0.84	U	1	0.84	4.50	ug/Kg	11/19/25 13:14	VW111925
591-78-6	2-Hexanone	3.30	U	1	3.30	22.7	ug/Kg	11/19/25 13:14	VW111925
124-48-1	Dibromochloromethane	0.79	U	1	0.79	4.50	ug/Kg	11/19/25 13:14	VW111925
106-93-4	1,2-Dibromoethane	0.80	U	1	0.80	4.50	ug/Kg	11/19/25 13:14	VW111925
127-18-4	Tetrachloroethene	0.95	U	1	0.95	4.50	ug/Kg	11/19/25 13:14	VW111925
108-90-7	Chlorobenzene	0.83	U	1	0.83	4.50	ug/Kg	11/19/25 13:14	VW111925
100-41-4	Ethyl Benzene	0.61	U	1	0.61	4.50	ug/Kg	11/19/25 13:14	VW111925
179601-23-1	m/p-Xylenes	1.10	U	1	1.10	9.10	ug/Kg	11/19/25 13:14	VW111925
95-47-6	o-Xylene	0.74	U	1	0.74	4.50	ug/Kg	11/19/25 13:14	VW111925
100-42-5	Styrene	0.64	U	1	0.64	4.50	ug/Kg	11/19/25 13:14	VW111925
75-25-2	Bromoform	0.78	U	1	0.78	4.50	ug/Kg	11/19/25 13:14	VW111925

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
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 Lab Sample ID: Q3649-04
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 Sample Wt/Vol: 6.21 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/14/25
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 Matrix: SOIL
 % Solid: 88.7
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.71	U	1	0.71	4.50	ug/Kg	11/19/25 13:14	VW111925
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1	1.10	4.50	ug/Kg	11/19/25 13:14	VW111925
541-73-1	1,3-Dichlorobenzene	1.60	U	1	1.60	4.50	ug/Kg	11/19/25 13:14	VW111925
106-46-7	1,4-Dichlorobenzene	1.40	U	1	1.40	4.50	ug/Kg	11/19/25 13:14	VW111925
95-50-1	1,2-Dichlorobenzene	1.30	U	1	1.30	4.50	ug/Kg	11/19/25 13:14	VW111925
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1	1.70	4.50	ug/Kg	11/19/25 13:14	VW111925
120-82-1	1,2,4-Trichlorobenzene	2.70	U	1	2.70	4.50	ug/Kg	11/19/25 13:14	VW111925
87-61-6	1,2,3-Trichlorobenzene	2.90	U	1	2.90	4.50	ug/Kg	11/19/25 13:14	VW111925

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	60.1			70 (63) - 130 (155)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6			70 (70) - 130 (134)	97%	SPK: 50
2037-26-5	Toluene-d8	44.3			70 (74) - 130 (123)	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4			70 (52) - 130 (138)	103%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	198000
540-36-3	1,4-Difluorobenzene	486000
3114-55-4	Chlorobenzene-d5	516000
3855-82-1	1,4-Dichlorobenzene-d4	249000

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



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Fax : 908 789 8922

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: B4-0.05-1.0-20251114
Lab Sample ID: Q3649-05
Analytical Method: 8260D
Sample Wt/Vol: 5.39 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/14/25
Date Received: 11/14/25
SDG No.: Q3649
Matrix: SOIL
% Solid: 90
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.20	U	1	1.20	5.20	ug/Kg	11/18/25 15:52	VW111825
74-87-3	Chloromethane	1.20	U	1	1.20	5.20	ug/Kg	11/18/25 15:52	VW111825
75-01-4	Vinyl Chloride	0.81	U	1	0.81	5.20	ug/Kg	11/18/25 15:52	VW111825
74-83-9	Bromomethane	1.10	U	1	1.10	5.20	ug/Kg	11/18/25 15:52	VW111825
75-00-3	Chloroethane	1.30	U	1	1.30	5.20	ug/Kg	11/18/25 15:52	VW111825
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	5.20	ug/Kg	11/18/25 15:52	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1	1.10	5.20	ug/Kg	11/18/25 15:52	VW111825
75-35-4	1,1-Dichloroethene	1.00	U	1	1.00	5.20	ug/Kg	11/18/25 15:52	VW111825
67-64-1	Acetone	4.90	U	1	4.90	25.8	ug/Kg	11/18/25 15:52	VW111825
75-15-0	Carbon Disulfide	1.10	U	1	1.10	5.20	ug/Kg	11/18/25 15:52	VW111825
1634-04-4	Methyl tert-butyl Ether	0.75	U	1	0.75	5.20	ug/Kg	11/18/25 15:52	VW111825
79-20-9	Methyl Acetate	1.60	U	1	1.60	5.20	ug/Kg	11/18/25 15:52	VW111825
75-09-2	Methylene Chloride	3.60	U	1	3.60	10.3	ug/Kg	11/18/25 15:52	VW111825
156-60-5	trans-1,2-Dichloroethene	0.89	U	1	0.89	5.20	ug/Kg	11/18/25 15:52	VW111825
75-34-3	1,1-Dichloroethane	0.82	U	1	0.82	5.20	ug/Kg	11/18/25 15:52	VW111825
110-82-7	Cyclohexane	0.81	U	1	0.81	5.20	ug/Kg	11/18/25 15:52	VW111825
78-93-3	2-Butanone	6.70	U	1	6.70	25.8	ug/Kg	11/18/25 15:52	VW111825
56-23-5	Carbon Tetrachloride	1.00	U	1	1.00	5.20	ug/Kg	11/18/25 15:52	VW111825
156-59-2	cis-1,2-Dichloroethene	0.77	U	1	0.77	5.20	ug/Kg	11/18/25 15:52	VW111825
74-97-5	Bromochloromethane	1.20	U	1	1.20	5.20	ug/Kg	11/18/25 15:52	VW111825
67-66-3	Chloroform	0.87	U	1	0.87	5.20	ug/Kg	11/18/25 15:52	VW111825
71-55-6	1,1,1-Trichloroethane	0.96	U	1	0.96	5.20	ug/Kg	11/18/25 15:52	VW111825
108-87-2	Methylcyclohexane	0.94	U	1	0.94	5.20	ug/Kg	11/18/25 15:52	VW111825
71-43-2	Benzene	0.81	U	1	0.81	5.20	ug/Kg	11/18/25 15:52	VW111825
107-06-2	1,2-Dichloroethane	0.81	U	1	0.81	5.20	ug/Kg	11/18/25 15:52	VW111825
79-01-6	Trichloroethene	0.83	U	1	0.83	5.20	ug/Kg	11/18/25 15:52	VW111825
78-87-5	1,2-Dichloropropane	0.94	U	1	0.94	5.20	ug/Kg	11/18/25 15:52	VW111825
75-27-4	Bromodichloromethane	0.80	U	1	0.80	5.20	ug/Kg	11/18/25 15:52	VW111825
108-10-1	4-Methyl-2-Pentanone	3.70	U	1	3.70	25.8	ug/Kg	11/18/25 15:52	VW111825
108-88-3	Toluene	0.80	U	1	0.80	5.20	ug/Kg	11/18/25 15:52	VW111825
10061-02-6	t-1,3-Dichloropropene	0.67	U	1	0.67	5.20	ug/Kg	11/18/25 15:52	VW111825
10061-01-5	cis-1,3-Dichloropropene	0.64	U	1	0.64	5.20	ug/Kg	11/18/25 15:52	VW111825
79-00-5	1,1,2-Trichloroethane	0.95	U	1	0.95	5.20	ug/Kg	11/18/25 15:52	VW111825
591-78-6	2-Hexanone	3.80	U	1	3.80	25.8	ug/Kg	11/18/25 15:52	VW111825
124-48-1	Dibromochloromethane	0.90	U	1	0.90	5.20	ug/Kg	11/18/25 15:52	VW111825
106-93-4	1,2-Dibromoethane	0.91	U	1	0.91	5.20	ug/Kg	11/18/25 15:52	VW111825
127-18-4	Tetrachloroethene	1.10	U	1	1.10	5.20	ug/Kg	11/18/25 15:52	VW111825
108-90-7	Chlorobenzene	0.94	U	1	0.94	5.20	ug/Kg	11/18/25 15:52	VW111825
100-41-4	Ethyl Benzene	0.69	U	1	0.69	5.20	ug/Kg	11/18/25 15:52	VW111825
179601-23-1	m/p-Xylenes	1.30	U	1	1.30	10.3	ug/Kg	11/18/25 15:52	VW111825
95-47-6	o-Xylene	0.85	U	1	0.85	5.20	ug/Kg	11/18/25 15:52	VW111825
100-42-5	Styrene	0.73	U	1	0.73	5.20	ug/Kg	11/18/25 15:52	VW111825
75-25-2	Bromoform	0.89	U	1	0.89	5.20	ug/Kg	11/18/25 15:52	VW111825

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: B4-0.05-1.0-20251114
 Lab Sample ID: Q3649-05
 Analytical Method: 8260D
 Sample Wt/Vol: 5.39 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/14/25
 Date Received: 11/14/25
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 90
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.80	U	1	0.80	5.20	ug/Kg	11/18/25 15:52	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	5.20	ug/Kg	11/18/25 15:52	VW111825
541-73-1	1,3-Dichlorobenzene	1.80	U	1	1.80	5.20	ug/Kg	11/18/25 15:52	VW111825
106-46-7	1,4-Dichlorobenzene	1.60	U	1	1.60	5.20	ug/Kg	11/18/25 15:52	VW111825
95-50-1	1,2-Dichlorobenzene	1.50	U	1	1.50	5.20	ug/Kg	11/18/25 15:52	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1	1.90	5.20	ug/Kg	11/18/25 15:52	VW111825
120-82-1	1,2,4-Trichlorobenzene	3.10	U	1	3.10	5.20	ug/Kg	11/18/25 15:52	VW111825
87-61-6	1,2,3-Trichlorobenzene	3.30	U	1	3.30	5.20	ug/Kg	11/18/25 15:52	VW111825

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	59.1			70 (63) - 130 (155)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9			70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	45.8			70 (74) - 130 (123)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.6			70 (52) - 130 (138)	113%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	233000
540-36-3	1,4-Difluorobenzene	543000
3114-55-4	Chlorobenzene-d5	601000
3855-82-1	1,4-Dichlorobenzene-d4	284000

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: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: B3-0.5-1.0-20251114
 Lab Sample ID: Q3649-09
 Analytical Method: 8260D
 Sample Wt/Vol: 4.79 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/14/25
 Date Received: 11/14/25
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 89.2
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.30	U	1	1.30	5.90	ug/Kg	11/18/25 16:14	VW111825
74-87-3	Chloromethane	1.30	U	1	1.30	5.90	ug/Kg	11/18/25 16:14	VW111825
75-01-4	Vinyl Chloride	0.92	U	1	0.92	5.90	ug/Kg	11/18/25 16:14	VW111825
74-83-9	Bromomethane	1.30	U	1	1.30	5.90	ug/Kg	11/18/25 16:14	VW111825
75-00-3	Chloroethane	1.50	U	1	1.50	5.90	ug/Kg	11/18/25 16:14	VW111825
75-69-4	Trichlorofluoromethane	1.40	U	1	1.40	5.90	ug/Kg	11/18/25 16:14	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1	1.20	5.90	ug/Kg	11/18/25 16:14	VW111825
75-35-4	1,1-Dichloroethene	1.20	U	1	1.20	5.90	ug/Kg	11/18/25 16:14	VW111825
67-64-1	Acetone	5.50	U	1	5.50	29.3	ug/Kg	11/18/25 16:14	VW111825
75-15-0	Carbon Disulfide	1.20	U	1	1.20	5.90	ug/Kg	11/18/25 16:14	VW111825
1634-04-4	Methyl tert-butyl Ether	0.85	U	1	0.85	5.90	ug/Kg	11/18/25 16:14	VW111825
79-20-9	Methyl Acetate	1.80	U	1	1.80	5.90	ug/Kg	11/18/25 16:14	VW111825
75-09-2	Methylene Chloride	4.10	U	1	4.10	11.7	ug/Kg	11/18/25 16:14	VW111825
156-60-5	trans-1,2-Dichloroethene	1.00	U	1	1.00	5.90	ug/Kg	11/18/25 16:14	VW111825
75-34-3	1,1-Dichloroethane	0.94	U	1	0.94	5.90	ug/Kg	11/18/25 16:14	VW111825
110-82-7	Cyclohexane	0.92	U	1	0.92	5.90	ug/Kg	11/18/25 16:14	VW111825
78-93-3	2-Butanone	7.70	U	1	7.70	29.3	ug/Kg	11/18/25 16:14	VW111825
56-23-5	Carbon Tetrachloride	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
156-59-2	cis-1,2-Dichloroethene	0.88	U	1	0.88	5.90	ug/Kg	11/18/25 16:14	VW111825
74-97-5	Bromochloromethane	1.30	U	1	1.30	5.90	ug/Kg	11/18/25 16:14	VW111825
67-66-3	Chloroform	0.98	U	1	0.98	5.90	ug/Kg	11/18/25 16:14	VW111825
71-55-6	1,1,1-Trichloroethane	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
108-87-2	Methylcyclohexane	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
71-43-2	Benzene	0.92	U	1	0.92	5.90	ug/Kg	11/18/25 16:14	VW111825
107-06-2	1,2-Dichloroethane	0.92	U	1	0.92	5.90	ug/Kg	11/18/25 16:14	VW111825
79-01-6	Trichloroethene	0.95	U	1	0.95	5.90	ug/Kg	11/18/25 16:14	VW111825
78-87-5	1,2-Dichloropropane	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
75-27-4	Bromodichloromethane	0.91	U	1	0.91	5.90	ug/Kg	11/18/25 16:14	VW111825
108-10-1	4-Methyl-2-Pentanone	4.20	U	1	4.20	29.3	ug/Kg	11/18/25 16:14	VW111825
108-88-3	Toluene	0.91	U	1	0.91	5.90	ug/Kg	11/18/25 16:14	VW111825
10061-02-6	t-1,3-Dichloropropene	0.76	U	1	0.76	5.90	ug/Kg	11/18/25 16:14	VW111825
10061-01-5	cis-1,3-Dichloropropene	0.73	U	1	0.73	5.90	ug/Kg	11/18/25 16:14	VW111825
79-00-5	1,1,2-Trichloroethane	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
591-78-6	2-Hexanone	4.30	U	1	4.30	29.3	ug/Kg	11/18/25 16:14	VW111825
124-48-1	Dibromochloromethane	1.00	U	1	1.00	5.90	ug/Kg	11/18/25 16:14	VW111825
106-93-4	1,2-Dibromoethane	1.00	U	1	1.00	5.90	ug/Kg	11/18/25 16:14	VW111825
127-18-4	Tetrachloroethene	1.20	U	1	1.20	5.90	ug/Kg	11/18/25 16:14	VW111825
108-90-7	Chlorobenzene	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
100-41-4	Ethyl Benzene	0.78	U	1	0.78	5.90	ug/Kg	11/18/25 16:14	VW111825
179601-23-1	m/p-Xylenes	1.50	U	1	1.50	11.7	ug/Kg	11/18/25 16:14	VW111825
95-47-6	o-Xylene	0.96	U	1	0.96	5.90	ug/Kg	11/18/25 16:14	VW111825
100-42-5	Styrene	0.83	U	1	0.83	5.90	ug/Kg	11/18/25 16:14	VW111825
75-25-2	Bromoform	1.00	U	1	1.00	5.90	ug/Kg	11/18/25 16:14	VW111825



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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: B3-0.5-1.0-20251114
Lab Sample ID: Q3649-09
Analytical Method: 8260D
Sample Wt/Vol: 4.79 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/14/25
Date Received: 11/14/25
SDG No.: Q3649
Matrix: SOIL
% Solid: 89.2
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.91	U	1	0.91	5.90	ug/Kg	11/18/25 16:14	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1	1.40	5.90	ug/Kg	11/18/25 16:14	VW111825
541-73-1	1,3-Dichlorobenzene	2.00	U	1	2.00	5.90	ug/Kg	11/18/25 16:14	VW111825
106-46-7	1,4-Dichlorobenzene	1.80	U	1	1.80	5.90	ug/Kg	11/18/25 16:14	VW111825
95-50-1	1,2-Dichlorobenzene	1.70	U	1	1.70	5.90	ug/Kg	11/18/25 16:14	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	2.20	U	1	2.20	5.90	ug/Kg	11/18/25 16:14	VW111825
120-82-1	1,2,4-Trichlorobenzene	3.50	U	1	3.50	5.90	ug/Kg	11/18/25 16:14	VW111825
87-61-6	1,2,3-Trichlorobenzene	3.70	U	1	3.70	5.90	ug/Kg	11/18/25 16:14	VW111825

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	58.7			70 (63) - 130 (155)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0			70 (70) - 130 (134)	96%	SPK: 50
2037-26-5	Toluene-d8	43.6			70 (74) - 130 (123)	87%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.0			70 (52) - 130 (138)	110%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	213000
540-36-3	1,4-Difluorobenzene	491000
3114-55-4	Chlorobenzene-d5	511000
3855-82-1	1,4-Dichlorobenzene-d4	272000

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.: **Q3649**

Client: **HDR, Inc.**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3649-02	B5-0.5-1.0-20251114	1,2-Dichloroethane-d4	50	62.5	125		70 (63)	130 (155)
		Dibromofluoromethane	50	50.8	102		70 (70)	130 (134)
		Toluene-d8	50	45.9	92		70 (74)	130 (123)
		4-Bromofluorobenzene	50	55.6	111		70 (52)	130 (138)
Q3649-04	DUPE-0.5-1.0-20251114	1,2-Dichloroethane-d4	50	60.1	120		70 (63)	130 (155)
		Dibromofluoromethane	50	48.6	97		70 (70)	130 (134)
		Toluene-d8	50	44.3	89		70 (74)	130 (123)
		4-Bromofluorobenzene	50	51.4	103		70 (52)	130 (138)
Q3649-05	B4-0.05-1.0-20251114	1,2-Dichloroethane-d4	50	59.1	118		70 (63)	130 (155)
		Dibromofluoromethane	50	49.9	100		70 (70)	130 (134)
		Toluene-d8	50	45.8	92		70 (74)	130 (123)
		4-Bromofluorobenzene	50	56.6	113		70 (52)	130 (138)
Q3649-09	B3-0.5-1.0-20251114	1,2-Dichloroethane-d4	50	58.8	117		70 (63)	130 (155)
		Dibromofluoromethane	50	48.0	96		70 (70)	130 (134)
		Toluene-d8	50	43.6	87		70 (74)	130 (123)
		4-Bromofluorobenzene	50	55.0	110		70 (52)	130 (138)
VW1118SBL01	VW1118SBL01	1,2-Dichloroethane-d4	50	64.7	129		70 (63)	130 (155)
		Dibromofluoromethane	50	52.3	105		70 (70)	130 (134)
		Toluene-d8	50	47.4	95		70 (74)	130 (123)
		4-Bromofluorobenzene	50	52.0	104		70 (52)	130 (138)
VW1118SBS01	VW1118SBS01	1,2-Dichloroethane-d4	50	53.7	107		70 (63)	130 (155)
		Dibromofluoromethane	50	52.0	104		70 (70)	130 (134)
		Toluene-d8	50	52.0	104		70 (74)	130 (123)
		4-Bromofluorobenzene	50	51.7	103		70 (52)	130 (138)
VW1118SBSD0	VW1118SBSD01	1,2-Dichloroethane-d4	50	52.1	104		70 (63)	130 (155)
		Dibromofluoromethane	50	50.5	101		70 (70)	130 (134)
		Toluene-d8	50	51.2	102		70 (74)	130 (123)
		4-Bromofluorobenzene	50	49.7	99		70 (52)	130 (138)
VW1119SBL01	VW1119SBL01	1,2-Dichloroethane-d4	50	60.5	121		70 (63)	130 (155)
		Dibromofluoromethane	50	51.6	103		70 (70)	130 (134)
		Toluene-d8	50	45.5	91		70 (74)	130 (123)
		4-Bromofluorobenzene	50	54.5	109		70 (52)	130 (138)
VW1119SBS01	VW1119SBS01	1,2-Dichloroethane-d4	50	52.2	104		70 (63)	130 (155)
		Dibromofluoromethane	50	51.8	104		70 (70)	130 (134)
		Toluene-d8	50	52.1	104		70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.7	101		70 (52)	130 (138)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3649</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>HDR, Inc.</u>	Datafile :	<u>VW032470.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1118SBS01	Dichlorodifluoromethane	20	20.6	ug/Kg	103			40 (64)	160 (136)	
	Chloromethane	20	22.4	ug/Kg	112			40 (73)	160 (129)	
	Vinyl chloride	20	22.2	ug/Kg	111			70 (73)	130 (133)	
	Bromomethane	20	21.5	ug/Kg	108			40 (77)	160 (137)	
	Chloroethane	20	21.2	ug/Kg	106			40 (69)	160 (130)	
	Trichlorofluoromethane	20	18.4	ug/Kg	92			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.9	ug/Kg	110			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (174)	
	Carbon disulfide	20	21.0	ug/Kg	105			40 (73)	160 (125)	
	Methyl tert-butyl Ether	20	20.8	ug/Kg	104			70 (77)	130 (129)	
	Methyl Acetate	20	20.2	ug/Kg	101			70 (51)	130 (140)	
	Methylene Chloride	20	24.2	ug/Kg	121			70 (54)	130 (158)	
	trans-1,2-Dichloroethene	20	21.8	ug/Kg	109			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.2	ug/Kg	111			70 (82)	130 (123)	
	Cyclohexane	20	21.9	ug/Kg	110			70 (76)	130 (122)	
	2-Butanone	100	100	ug/Kg	100			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.6	ug/Kg	108			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.1	ug/Kg	106			70 (82)	130 (123)	
	Bromochloromethane	20	22.7	ug/Kg	114			70 (80)	130 (127)	
	Chloroform	20	22.5	ug/Kg	113			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.7	ug/Kg	109			70 (80)	130 (126)	
	Methylcyclohexane	20	20.6	ug/Kg	103			70 (77)	130 (123)	
	Benzene	20	21.9	ug/Kg	110			70 (84)	130 (121)	
	1,2-Dichloroethane	20	22.2	ug/Kg	111			70 (81)	130 (126)	
	Trichloroethene	20	21.3	ug/Kg	106			70 (83)	130 (122)	
	1,2-Dichloropropane	20	22.1	ug/Kg	111			70 (83)	130 (122)	
	Bromodichloromethane	20	21.8	ug/Kg	109			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	21.6	ug/Kg	108			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.5	ug/Kg	103			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.8	ug/Kg	104			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	21.3	ug/Kg	106			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	20.9	ug/Kg	104			70 (79)	130 (125)	
	1,2-Dibromoethane	20	21.4	ug/Kg	107			70 (80)	130 (125)	
	Tetrachloroethene	20	21.7	ug/Kg	109			70 (83)	130 (125)	
	Chlorobenzene	20	21.6	ug/Kg	108			70 (84)	130 (122)	
	Ethyl Benzene	20	21.2	ug/Kg	106			70 (82)	130 (124)	
	m/p-Xylenes	40	43.5	ug/Kg	109			70 (83)	130 (124)	
	o-Xylene	20	21.4	ug/Kg	107			70 (83)	130 (123)	
	Styrene	20	21.6	ug/Kg	108			70 (82)	130 (124)	
	Bromoform	20	20.1	ug/Kg	101			70 (75)	130 (127)	
	Isopropylbenzene	20	20.1	ug/Kg	101			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	21.1	ug/Kg	106			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.1	ug/Kg	106			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3649</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>HDR, Inc.</u>	Datafile :	<u>VW032470.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1118SBS01	1,2-Dibromo-3-Chloropropane	20	19.2	ug/Kg	96			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	20.1	ug/Kg	101			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	20.0	ug/Kg	100			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SDG No.: Q3649 Analytical Method: SW8260D
Client: HDR, Inc. Datafile : VW032471.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1118SBSD01	Dichlorodifluoromethane	20	21.9	ug/Kg	110	7		40 (64)	160 (136)	30 (20)
	Chloromethane	20	22.0	ug/Kg	110	2		40 (73)	160 (129)	30 (15)
	Vinyl chloride	20	22.5	ug/Kg	113	2		70 (73)	130 (133)	30 (15)
	Bromomethane	20	22.2	ug/Kg	111	3		40 (77)	160 (137)	30 (15)
	Chloroethane	20	21.7	ug/Kg	109	3		40 (69)	160 (130)	30 (15)
	Trichlorofluoromethane	20	22.1	ug/Kg	111	19		40 (69)	160 (134)	30 (27)
	1,1,2-Trichlorotrifluoroethane	20	22.7	ug/Kg	114	4		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	22.3	ug/Kg	112	2		70 (79)	130 (121)	30 (16)
	Acetone	100	100	ug/Kg	100	10		40 (60)	160 (174)	30 (28)
	Carbon disulfide	20	21.5	ug/Kg	108	3		40 (73)	160 (125)	30 (15)
	Methyl tert-butyl Ether	20	20.7	ug/Kg	104	0		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	20.0	ug/Kg	100	1		70 (51)	130 (140)	30 (30)
	Methylene Chloride	20	23.6	ug/Kg	118	3		70 (54)	130 (158)	30 (20)
	trans-1,2-Dichloroethene	20	22.1	ug/Kg	111	2		70 (80)	130 (123)	30 (15)
	1,1-Dichloroethane	20	22.6	ug/Kg	113	2		70 (82)	130 (123)	30 (15)
	Cyclohexane	20	22.0	ug/Kg	110	0		70 (76)	130 (122)	30 (15)
	2-Butanone	100	100	ug/Kg	100	0		40 (69)	160 (131)	30 (29)
	Carbon Tetrachloride	20	22.5	ug/Kg	113	5		70 (76)	130 (129)	30 (15)
	cis-1,2-Dichloroethene	20	21.6	ug/Kg	108	2		70 (82)	130 (123)	30 (15)
	Bromochloromethane	20	22.8	ug/Kg	114	0		70 (80)	130 (127)	30 (15)
	Chloroform	20	22.7	ug/Kg	114	1		70 (82)	130 (125)	30 (15)
	1,1,1-Trichloroethane	20	22.3	ug/Kg	112	3		70 (80)	130 (126)	30 (15)
	Methylcyclohexane	20	20.8	ug/Kg	104	1		70 (77)	130 (123)	30 (15)
	Benzene	20	21.8	ug/Kg	109	1		70 (84)	130 (121)	30 (15)
	1,2-Dichloroethane	20	21.8	ug/Kg	109	2		70 (81)	130 (126)	30 (15)
	Trichloroethene	20	21.3	ug/Kg	106	0		70 (83)	130 (122)	30 (15)
	1,2-Dichloropropane	20	21.8	ug/Kg	109	2		70 (83)	130 (122)	30 (15)
	Bromodichloromethane	20	21.4	ug/Kg	107	2		70 (82)	130 (123)	30 (15)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	0		40 (70)	160 (135)	30 (26)
	Toluene	20	21.9	ug/Kg	110	2		70 (83)	130 (122)	30 (15)
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102	1		70 (78)	130 (124)	30 (15)
	cis-1,3-Dichloropropene	20	20.8	ug/Kg	104	0		70 (81)	130 (122)	30 (15)
	1,1,2-Trichloroethane	20	21.2	ug/Kg	106	0		70 (82)	130 (125)	30 (15)
	2-Hexanone	100	100	ug/Kg	100	0		40 (66)	160 (138)	30 (27)
	Dibromochloromethane	20	20.7	ug/Kg	104	0		70 (79)	130 (125)	30 (15)
	1,2-Dibromoethane	20	20.9	ug/Kg	104	3		70 (80)	130 (125)	30 (16)
	Tetrachloroethene	20	21.2	ug/Kg	106	3		70 (83)	130 (125)	30 (15)
	Chlorobenzene	20	21.5	ug/Kg	108	0		70 (84)	130 (122)	30 (15)
	Ethyl Benzene	20	21.9	ug/Kg	110	4		70 (82)	130 (124)	30 (15)
	m/p-Xylenes	40	44.4	ug/Kg	111	2		70 (83)	130 (124)	30 (15)
	o-Xylene	20	21.2	ug/Kg	106	1		70 (83)	130 (123)	30 (15)
	Styrene	20	21.9	ug/Kg	110	2		70 (82)	130 (124)	30 (15)
	Bromoform	20	19.3	ug/Kg	97	4		70 (75)	130 (127)	30 (16)
	Isopropylbenzene	20	21.7	ug/Kg	109	8		70 (82)	130 (124)	30 (15)
	1,1,2,2-Tetrachloroethane	20	22.3	ug/Kg	112	6		70 (77)	130 (127)	30 (21)
	1,3-Dichlorobenzene	20	22.5	ug/Kg	113	6		70 (83)	130 (122)	30 (15)
	1,4-Dichlorobenzene	20	21.6	ug/Kg	108	4		70 (84)	130 (121)	30 (15)
	1,2-Dichlorobenzene	20	21.7	ug/Kg	109	3		70 (83)	130 (124)	30 (15)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3649</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>HDR, Inc.</u>	Datafile :	<u>VW032471.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1118SBSD01	1,2-Dibromo-3-Chloropropane	20	19.8	ug/Kg	99	3		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.9	ug/Kg	100	1		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.5	ug/Kg	103	3		70 (70)	130 (137)	30 (16)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3649

Analytical Method: SW8260D

Client: HDR, Inc.

Datafile : VW032492.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1119SBS01	Dichlorodifluoromethane	20	20.0	ug/Kg	100			40 (64)	160 (136)	
	Chloromethane	20	21.9	ug/Kg	110			40 (73)	160 (129)	
	Vinyl chloride	20	21.9	ug/Kg	110			70 (73)	130 (133)	
	Bromomethane	20	21.7	ug/Kg	109			40 (77)	160 (137)	
	Chloroethane	20	20.4	ug/Kg	102			40 (69)	160 (130)	
	Trichlorofluoromethane	20	18.3	ug/Kg	92			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.7	ug/Kg	109			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.0	ug/Kg	105			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (174)	
	Carbon disulfide	20	20.5	ug/Kg	103			40 (73)	160 (125)	
	Methyl tert-butyl Ether	20	19.5	ug/Kg	98			70 (77)	130 (129)	
	Methyl Acetate	20	19.0	ug/Kg	95			70 (51)	130 (140)	
	Methylene Chloride	20	22.6	ug/Kg	113			70 (54)	130 (158)	
	trans-1,2-Dichloroethene	20	21.1	ug/Kg	106			70 (80)	130 (123)	
	1,1-Dichloroethane	20	21.6	ug/Kg	108			70 (82)	130 (123)	
	Cyclohexane	20	20.2	ug/Kg	101			70 (76)	130 (122)	
	2-Butanone	100	96.2	ug/Kg	96			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.4	ug/Kg	107			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104			70 (82)	130 (123)	
	Bromochloromethane	20	22.0	ug/Kg	110			70 (80)	130 (127)	
	Chloroform	20	21.9	ug/Kg	110			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			70 (80)	130 (126)	
	Methylcyclohexane	20	19.6	ug/Kg	98			70 (77)	130 (123)	
	Benzene	20	21.4	ug/Kg	107			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.8	ug/Kg	109			70 (81)	130 (126)	
	Trichloroethene	20	20.7	ug/Kg	104			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.5	ug/Kg	108			70 (83)	130 (122)	
	Bromodichloromethane	20	20.8	ug/Kg	104			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	21.8	ug/Kg	109			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.2	ug/Kg	101			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.0	ug/Kg	100			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	21.2	ug/Kg	106			70 (82)	130 (125)	
	2-Hexanone	100	96.5	ug/Kg	97			40 (66)	160 (138)	
	Dibromochloromethane	20	21.1	ug/Kg	106			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.5	ug/Kg	103			70 (80)	130 (125)	
	Tetrachloroethene	20	20.7	ug/Kg	104			70 (83)	130 (125)	
	Chlorobenzene	20	21.1	ug/Kg	106			70 (84)	130 (122)	
	Ethyl Benzene	20	20.7	ug/Kg	104			70 (82)	130 (124)	
	m/p-Xylenes	40	41.8	ug/Kg	104			70 (83)	130 (124)	
	o-Xylene	20	20.3	ug/Kg	102			70 (83)	130 (123)	
	Styrene	20	21.1	ug/Kg	106			70 (82)	130 (124)	
	Bromoform	20	19.6	ug/Kg	98			70 (75)	130 (127)	
	Isopropylbenzene	20	19.2	ug/Kg	96			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.4	ug/Kg	102			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.1	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.4	ug/Kg	102			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.4	ug/Kg	107			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3649</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>HDR, Inc.</u>	Datafile :	<u>VW032492.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1119SBS01	1,2-Dibromo-3-Chloropropane	20	18.9	ug/Kg	95			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.1	ug/Kg	96			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	20.2	ug/Kg	101			70 (70)	130 (137)	

VOLATILE METHOD BLANK SUMMARY

Client ID

VW1118SBL01

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3649

Lab File ID: VW032469.D

Lab Sample ID: VW1118SBL01

Date Analyzed: 11/18/2025

Time Analyzed: 10:13

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW1118SBS01	VW1118SBS01	VW032470.D	11/18/2025
VW1118SBSD01	VW1118SBSD01	VW032471.D	11/18/2025
B4-0.05-1.0-20251114	Q3649-05	VW032483.D	11/18/2025
B3-0.5-1.0-20251114	Q3649-09	VW032484.D	11/18/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VW1119SBL01

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3649

Lab File ID: VW032491.D

Lab Sample ID: VW1119SBL01

Date Analyzed: 11/19/2025

Time Analyzed: 10:36

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW1119SBS01	VW1119SBS01	VW032492.D	11/19/2025
B5-0.5-1.0-20251114	Q3649-02	VW032496.D	11/19/2025
DUPE-0.5-1.0-20251114	Q3649-04	VW032497.D	11/19/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3649

Lab File ID: VW032405.D

BFB Injection Date: 11/10/2025

Instrument ID: MSVOA_W

BFB Injection Time: 14:20

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	67.1
175	5.0 - 9.0% of mass 174	5.1 (7.6) 1
176	95.0 - 101.0% of mass 174	66.1 (98.5) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VW032406.D	11/10/2025	15:11
VSTDIC010	VSTDIC010	VW032407.D	11/10/2025	15:33
VSTDIC020	VSTDIC020	VW032408.D	11/10/2025	15:55
VSTDIC050	VSTDIC050	VW032409.D	11/10/2025	16:17
VSTDIC100	VSTDIC100	VW032410.D	11/10/2025	16:39
VSTDIC150	VSTDIC150	VW032411.D	11/10/2025	17:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3649

Lab File ID: VW032467.D

BFB Injection Date: 11/18/2025

Instrument ID: MSVOA_W

BFB Injection Time: 09:15

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	18.3
75	30.0 - 60.0% of mass 95	49.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	64.4
175	5.0 - 9.0% of mass 174	4.9 (7.7) 1
176	95.0 - 101.0% of mass 174	61.6 (95.7) 1
177	5.0 - 9.0% of mass 176	3.9 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW032468.D	11/18/2025	09:46
VW1118SBL01	VW1118SBL01	VW032469.D	11/18/2025	10:13
VW1118SBS01	VW1118SBS01	VW032470.D	11/18/2025	10:40
VW1118SBSD01	VW1118SBSD01	VW032471.D	11/18/2025	11:02
B4-0.05-1.0-20251114	Q3649-05	VW032483.D	11/18/2025	15:52
B3-0.5-1.0-20251114	Q3649-09	VW032484.D	11/18/2025	16:14

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3649

Lab File ID: VW032489.D

BFB Injection Date: 11/19/2025

Instrument ID: MSVOA_W

BFB Injection Time: 09:32

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	18.9
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	67.8
175	5.0 - 9.0% of mass 174	5.4 (8) 1
176	95.0 - 101.0% of mass 174	66.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.1 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW032490.D	11/19/2025	10:01
VW1119SBL01	VW1119SBL01	VW032491.D	11/19/2025	10:36
VW1119SBS01	VW1119SBS01	VW032492.D	11/19/2025	11:11
B5-0.5-1.0-20251114	Q3649-02	VW032496.D	11/19/2025	12:52
DUPE-0.5-1.0-20251114	Q3649-04	VW032497.D	11/19/2025	13:14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: HDRI08
Lab Code: ACE SDG NO.: Q3649
Lab File ID: VW032468.D Date Analyzed: 11/18/2025
Instrument ID: MSVOA_W Time Analyzed: 09:46
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	361815	7.95	661363	8.85	600329	11.63
UPPER LIMIT	723630	8.453	1322730	9.349	1200660	12.129
LOWER LIMIT	180908	7.453	330682	8.349	300165	11.129
EPA SAMPLE NO.						
B4-0.05-1.0-20251114	232615	7.96	543396	8.85	601253	11.63
B3-0.5-1.0-20251114	212864	7.97	490545	8.85	510548	11.63
VW1118SBL01	212726	7.96	511741	8.85	533709	11.63
VW1118SBS01	368383	7.96	685400	8.85	608119	11.63
VW1118SBSD01	367695	7.96	692034	8.85	614192	11.63

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:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3649</u>
Lab File ID:	<u>VW032468.D</u>	Date Analyzed:	<u>11/18/2025</u>
Instrument ID:	<u>MSVOA_W</u>	Time Analyzed:	<u>09:46</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>Y</u>

	IS4 AREA #	RT #				
12 HOUR STD	279351	13.556				
UPPER LIMIT	558702	14.056				
LOWER LIMIT	139676	13.056				
EPA SAMPLE NO.						
B4-0.05-1.0-20251114	284001	13.56				
B3-0.5-1.0-20251114	271829	13.56				
VW1118SBL01	261053	13.56				
VW1118SBS01	294055	13.56				
VW1118SBSD01	277057	13.56				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: HDRI08
Lab Code: ACE SDG NO.: Q3649
Lab File ID: VW032490.D Date Analyzed: 11/19/2025
Instrument ID: MSVOA_W Time Analyzed: 10:01
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	346973	7.96	636403	8.85	579827	11.63
UPPER LIMIT	693946	8.459	1272810	9.349	1159650	12.129
LOWER LIMIT	173487	7.459	318202	8.349	289914	11.129
EPA SAMPLE NO.						
B5-0.5-1.0-20251114	198251	7.97	468638	8.85	515247	11.63
DUPE-0.5-1.0-20251114	197627	7.97	485828	8.86	516048	11.63
VW1119SBL01	218109	7.96	508852	8.85	541801	11.63
VW1119SBS01	361405	7.96	660085	8.85	590674	11.63

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:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3649</u>
Lab File ID:	<u>VW032490.D</u>	Date Analyzed:	<u>11/19/2025</u>
Instrument ID:	<u>MSVOA_W</u>	Time Analyzed:	<u>10:01</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>Y</u>

	IS4 AREA #	RT #				
12 HOUR STD	269243	13.55				
UPPER LIMIT	538486	14.05				
LOWER LIMIT	134622	13.05				
EPA SAMPLE NO.						
B5-0.5-1.0-20251114	242262	13.56				
DUPE-0.5-1.0-20251114	249401	13.56				
VW1119SBL01	260882	13.56				
VW1119SBS01	285477	13.56				

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: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: VW1118SBL01
 Lab Sample ID: VW1118SBL01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 g

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 100
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
74-87-3	Chloromethane	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
75-01-4	Vinyl Chloride	0.79	U	1	0.79	5.00	ug/Kg	11/18/25 10:13	VW111825
74-83-9	Bromomethane	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
75-00-3	Chloroethane	1.30	U	1	1.30	5.00	ug/Kg	11/18/25 10:13	VW111825
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	5.00	ug/Kg	11/18/25 10:13	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
75-35-4	1,1-Dichloroethene	1.00	U	1	1.00	5.00	ug/Kg	11/18/25 10:13	VW111825
67-64-1	Acetone	4.70	U	1	4.70	25.0	ug/Kg	11/18/25 10:13	VW111825
75-15-0	Carbon Disulfide	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
1634-04-4	Methyl tert-butyl Ether	0.73	U	1	0.73	5.00	ug/Kg	11/18/25 10:13	VW111825
79-20-9	Methyl Acetate	1.50	U	1	1.50	5.00	ug/Kg	11/18/25 10:13	VW111825
75-09-2	Methylene Chloride	3.50	U	1	3.50	10.0	ug/Kg	11/18/25 10:13	VW111825
156-60-5	trans-1,2-Dichloroethene	0.86	U	1	0.86	5.00	ug/Kg	11/18/25 10:13	VW111825
75-34-3	1,1-Dichloroethane	0.80	U	1	0.80	5.00	ug/Kg	11/18/25 10:13	VW111825
110-82-7	Cyclohexane	0.79	U	1	0.79	5.00	ug/Kg	11/18/25 10:13	VW111825
78-93-3	2-Butanone	6.50	U	1	6.50	25.0	ug/Kg	11/18/25 10:13	VW111825
56-23-5	Carbon Tetrachloride	0.97	U	1	0.97	5.00	ug/Kg	11/18/25 10:13	VW111825
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.75	5.00	ug/Kg	11/18/25 10:13	VW111825
74-97-5	Bromochloromethane	1.20	U	1	1.20	5.00	ug/Kg	11/18/25 10:13	VW111825
67-66-3	Chloroform	0.84	U	1	0.84	5.00	ug/Kg	11/18/25 10:13	VW111825
71-55-6	1,1,1-Trichloroethane	0.93	U	1	0.93	5.00	ug/Kg	11/18/25 10:13	VW111825
108-87-2	Methylcyclohexane	0.91	U	1	0.91	5.00	ug/Kg	11/18/25 10:13	VW111825
71-43-2	Benzene	0.79	U	1	0.79	5.00	ug/Kg	11/18/25 10:13	VW111825
107-06-2	1,2-Dichloroethane	0.79	U	1	0.79	5.00	ug/Kg	11/18/25 10:13	VW111825
79-01-6	Trichloroethene	0.81	U	1	0.81	5.00	ug/Kg	11/18/25 10:13	VW111825
78-87-5	1,2-Dichloropropane	0.91	U	1	0.91	5.00	ug/Kg	11/18/25 10:13	VW111825
75-27-4	Bromodichloromethane	0.78	U	1	0.78	5.00	ug/Kg	11/18/25 10:13	VW111825
108-10-1	4-Methyl-2-Pentanone	3.60	U	1	3.60	25.0	ug/Kg	11/18/25 10:13	VW111825
108-88-3	Toluene	0.78	U	1	0.78	5.00	ug/Kg	11/18/25 10:13	VW111825
10061-02-6	t-1,3-Dichloropropene	0.65	U	1	0.65	5.00	ug/Kg	11/18/25 10:13	VW111825
10061-01-5	cis-1,3-Dichloropropene	0.62	U	1	0.62	5.00	ug/Kg	11/18/25 10:13	VW111825
79-00-5	1,1,2-Trichloroethane	0.92	U	1	0.92	5.00	ug/Kg	11/18/25 10:13	VW111825
591-78-6	2-Hexanone	3.70	U	1	3.70	25.0	ug/Kg	11/18/25 10:13	VW111825
124-48-1	Dibromochloromethane	0.87	U	1	0.87	5.00	ug/Kg	11/18/25 10:13	VW111825
106-93-4	1,2-Dibromoethane	0.88	U	1	0.88	5.00	ug/Kg	11/18/25 10:13	VW111825
127-18-4	Tetrachloroethene	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
108-90-7	Chlorobenzene	0.91	U	1	0.91	5.00	ug/Kg	11/18/25 10:13	VW111825
100-41-4	Ethyl Benzene	0.67	U	1	0.67	5.00	ug/Kg	11/18/25 10:13	VW111825
179601-23-1	m/p-Xylenes	1.20	U	1	1.20	10.0	ug/Kg	11/18/25 10:13	VW111825
95-47-6	o-Xylene	0.82	U	1	0.82	5.00	ug/Kg	11/18/25 10:13	VW111825
100-42-5	Styrene	0.71	U	1	0.71	5.00	ug/Kg	11/18/25 10:13	VW111825
75-25-2	Bromoform	0.86	U	1	0.86	5.00	ug/Kg	11/18/25 10:13	VW111825



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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: VW1118SBL01
Lab Sample ID: VW1118SBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3649
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.78	U	1	0.78	5.00	ug/Kg	11/18/25 10:13	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	5.00	ug/Kg	11/18/25 10:13	VW111825
541-73-1	1,3-Dichlorobenzene	1.70	U	1	1.70	5.00	ug/Kg	11/18/25 10:13	VW111825
106-46-7	1,4-Dichlorobenzene	1.60	U	1	1.60	5.00	ug/Kg	11/18/25 10:13	VW111825
95-50-1	1,2-Dichlorobenzene	1.50	U	1	1.50	5.00	ug/Kg	11/18/25 10:13	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1	1.80	5.00	ug/Kg	11/18/25 10:13	VW111825
120-82-1	1,2,4-Trichlorobenzene	3.00	U	1	3.00	5.00	ug/Kg	11/18/25 10:13	VW111825
87-61-6	1,2,3-Trichlorobenzene	3.20	U	1	3.20	5.00	ug/Kg	11/18/25 10:13	VW111825

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	64.7			70 (63) - 130 (155)	129%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3			70 (70) - 130 (134)	105%	SPK: 50
2037-26-5	Toluene-d8	47.4			70 (74) - 130 (123)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0			70 (52) - 130 (138)	104%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	213000
540-36-3	1,4-Difluorobenzene	512000
3114-55-4	Chlorobenzene-d5	534000
3855-82-1	1,4-Dichlorobenzene-d4	261000

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: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: VW1119SBL01
 Lab Sample ID: VW1119SBL01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 g

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 100
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
74-87-3	Chloromethane	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
75-01-4	Vinyl Chloride	0.79	U	1	0.79	5.00	ug/Kg	11/19/25 10:36	VW111925
74-83-9	Bromomethane	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
75-00-3	Chloroethane	1.30	U	1	1.30	5.00	ug/Kg	11/19/25 10:36	VW111925
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	5.00	ug/Kg	11/19/25 10:36	VW111925
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
75-35-4	1,1-Dichloroethene	1.00	U	1	1.00	5.00	ug/Kg	11/19/25 10:36	VW111925
67-64-1	Acetone	4.70	U	1	4.70	25.0	ug/Kg	11/19/25 10:36	VW111925
75-15-0	Carbon Disulfide	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
1634-04-4	Methyl tert-butyl Ether	0.73	U	1	0.73	5.00	ug/Kg	11/19/25 10:36	VW111925
79-20-9	Methyl Acetate	1.50	U	1	1.50	5.00	ug/Kg	11/19/25 10:36	VW111925
75-09-2	Methylene Chloride	3.50	U	1	3.50	10.0	ug/Kg	11/19/25 10:36	VW111925
156-60-5	trans-1,2-Dichloroethene	0.86	U	1	0.86	5.00	ug/Kg	11/19/25 10:36	VW111925
75-34-3	1,1-Dichloroethane	0.80	U	1	0.80	5.00	ug/Kg	11/19/25 10:36	VW111925
110-82-7	Cyclohexane	0.79	U	1	0.79	5.00	ug/Kg	11/19/25 10:36	VW111925
78-93-3	2-Butanone	6.50	U	1	6.50	25.0	ug/Kg	11/19/25 10:36	VW111925
56-23-5	Carbon Tetrachloride	0.97	U	1	0.97	5.00	ug/Kg	11/19/25 10:36	VW111925
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.75	5.00	ug/Kg	11/19/25 10:36	VW111925
74-97-5	Bromochloromethane	1.20	U	1	1.20	5.00	ug/Kg	11/19/25 10:36	VW111925
67-66-3	Chloroform	0.84	U	1	0.84	5.00	ug/Kg	11/19/25 10:36	VW111925
71-55-6	1,1,1-Trichloroethane	0.93	U	1	0.93	5.00	ug/Kg	11/19/25 10:36	VW111925
108-87-2	Methylcyclohexane	0.91	U	1	0.91	5.00	ug/Kg	11/19/25 10:36	VW111925
71-43-2	Benzene	0.79	U	1	0.79	5.00	ug/Kg	11/19/25 10:36	VW111925
107-06-2	1,2-Dichloroethane	0.79	U	1	0.79	5.00	ug/Kg	11/19/25 10:36	VW111925
79-01-6	Trichloroethene	0.81	U	1	0.81	5.00	ug/Kg	11/19/25 10:36	VW111925
78-87-5	1,2-Dichloropropane	0.91	U	1	0.91	5.00	ug/Kg	11/19/25 10:36	VW111925
75-27-4	Bromodichloromethane	0.78	U	1	0.78	5.00	ug/Kg	11/19/25 10:36	VW111925
108-10-1	4-Methyl-2-Pentanone	3.60	U	1	3.60	25.0	ug/Kg	11/19/25 10:36	VW111925
108-88-3	Toluene	0.78	U	1	0.78	5.00	ug/Kg	11/19/25 10:36	VW111925
10061-02-6	t-1,3-Dichloropropene	0.65	U	1	0.65	5.00	ug/Kg	11/19/25 10:36	VW111925
10061-01-5	cis-1,3-Dichloropropene	0.62	U	1	0.62	5.00	ug/Kg	11/19/25 10:36	VW111925
79-00-5	1,1,2-Trichloroethane	0.92	U	1	0.92	5.00	ug/Kg	11/19/25 10:36	VW111925
591-78-6	2-Hexanone	3.70	U	1	3.70	25.0	ug/Kg	11/19/25 10:36	VW111925
124-48-1	Dibromochloromethane	0.87	U	1	0.87	5.00	ug/Kg	11/19/25 10:36	VW111925
106-93-4	1,2-Dibromoethane	0.88	U	1	0.88	5.00	ug/Kg	11/19/25 10:36	VW111925
127-18-4	Tetrachloroethene	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
108-90-7	Chlorobenzene	0.91	U	1	0.91	5.00	ug/Kg	11/19/25 10:36	VW111925
100-41-4	Ethyl Benzene	0.67	U	1	0.67	5.00	ug/Kg	11/19/25 10:36	VW111925
179601-23-1	m/p-Xylenes	1.20	U	1	1.20	10.0	ug/Kg	11/19/25 10:36	VW111925
95-47-6	o-Xylene	0.82	U	1	0.82	5.00	ug/Kg	11/19/25 10:36	VW111925
100-42-5	Styrene	0.71	U	1	0.71	5.00	ug/Kg	11/19/25 10:36	VW111925
75-25-2	Bromoform	0.86	U	1	0.86	5.00	ug/Kg	11/19/25 10:36	VW111925



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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: VW1119SBL01
Lab Sample ID: VW1119SBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3649
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.78	U	1	0.78	5.00	ug/Kg	11/19/25 10:36	VW111925
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	5.00	ug/Kg	11/19/25 10:36	VW111925
541-73-1	1,3-Dichlorobenzene	1.70	U	1	1.70	5.00	ug/Kg	11/19/25 10:36	VW111925
106-46-7	1,4-Dichlorobenzene	1.60	U	1	1.60	5.00	ug/Kg	11/19/25 10:36	VW111925
95-50-1	1,2-Dichlorobenzene	1.50	U	1	1.50	5.00	ug/Kg	11/19/25 10:36	VW111925
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1	1.80	5.00	ug/Kg	11/19/25 10:36	VW111925
120-82-1	1,2,4-Trichlorobenzene	3.00	U	1	3.00	5.00	ug/Kg	11/19/25 10:36	VW111925
87-61-6	1,2,3-Trichlorobenzene	3.20	U	1	3.20	5.00	ug/Kg	11/19/25 10:36	VW111925

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	60.5			70 (63) - 130 (155)	121%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6			70 (70) - 130 (134)	103%	SPK: 50
2037-26-5	Toluene-d8	45.5			70 (74) - 130 (123)	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.4			70 (52) - 130 (138)	109%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	218000
540-36-3	1,4-Difluorobenzene	509000
3114-55-4	Chlorobenzene-d5	542000
3855-82-1	1,4-Dichlorobenzene-d4	261000

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: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: VW1118SBS01
 Lab Sample ID: VW1118SBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 g

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 100
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	20.6		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
74-87-3	Chloromethane	22.4		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
75-01-4	Vinyl Chloride	22.2		1	0.79	5.00	ug/Kg	11/18/25 10:40	VW111825
74-83-9	Bromomethane	21.5		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
75-00-3	Chloroethane	21.2		1	1.30	5.00	ug/Kg	11/18/25 10:40	VW111825
75-69-4	Trichlorofluoromethane	18.4		1	1.20	5.00	ug/Kg	11/18/25 10:40	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
75-35-4	1,1-Dichloroethene	21.9		1	1.00	5.00	ug/Kg	11/18/25 10:40	VW111825
67-64-1	Acetone	110		1	4.70	25.0	ug/Kg	11/18/25 10:40	VW111825
75-15-0	Carbon Disulfide	21.0		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
1634-04-4	Methyl tert-butyl Ether	20.8		1	0.73	5.00	ug/Kg	11/18/25 10:40	VW111825
79-20-9	Methyl Acetate	20.2		1	1.50	5.00	ug/Kg	11/18/25 10:40	VW111825
75-09-2	Methylene Chloride	24.2		1	3.50	10.0	ug/Kg	11/18/25 10:40	VW111825
156-60-5	trans-1,2-Dichloroethene	21.8		1	0.86	5.00	ug/Kg	11/18/25 10:40	VW111825
75-34-3	1,1-Dichloroethane	22.2		1	0.80	5.00	ug/Kg	11/18/25 10:40	VW111825
110-82-7	Cyclohexane	21.9		1	0.79	5.00	ug/Kg	11/18/25 10:40	VW111825
78-93-3	2-Butanone	100		1	6.50	25.0	ug/Kg	11/18/25 10:40	VW111825
56-23-5	Carbon Tetrachloride	21.6		1	0.97	5.00	ug/Kg	11/18/25 10:40	VW111825
156-59-2	cis-1,2-Dichloroethene	21.1		1	0.75	5.00	ug/Kg	11/18/25 10:40	VW111825
74-97-5	Bromochloromethane	22.7		1	1.20	5.00	ug/Kg	11/18/25 10:40	VW111825
67-66-3	Chloroform	22.5		1	0.84	5.00	ug/Kg	11/18/25 10:40	VW111825
71-55-6	1,1,1-Trichloroethane	21.7		1	0.93	5.00	ug/Kg	11/18/25 10:40	VW111825
108-87-2	Methylcyclohexane	20.6		1	0.91	5.00	ug/Kg	11/18/25 10:40	VW111825
71-43-2	Benzene	21.9		1	0.79	5.00	ug/Kg	11/18/25 10:40	VW111825
107-06-2	1,2-Dichloroethane	22.2		1	0.79	5.00	ug/Kg	11/18/25 10:40	VW111825
79-01-6	Trichloroethene	21.3		1	0.81	5.00	ug/Kg	11/18/25 10:40	VW111825
78-87-5	1,2-Dichloropropane	22.1		1	0.91	5.00	ug/Kg	11/18/25 10:40	VW111825
75-27-4	Bromodichloromethane	21.8		1	0.78	5.00	ug/Kg	11/18/25 10:40	VW111825
108-10-1	4-Methyl-2-Pentanone	110		1	3.60	25.0	ug/Kg	11/18/25 10:40	VW111825
108-88-3	Toluene	21.6		1	0.78	5.00	ug/Kg	11/18/25 10:40	VW111825
10061-02-6	t-1,3-Dichloropropene	20.5		1	0.65	5.00	ug/Kg	11/18/25 10:40	VW111825
10061-01-5	cis-1,3-Dichloropropene	20.8		1	0.62	5.00	ug/Kg	11/18/25 10:40	VW111825
79-00-5	1,1,2-Trichloroethane	21.3		1	0.92	5.00	ug/Kg	11/18/25 10:40	VW111825
591-78-6	2-Hexanone	100		1	3.70	25.0	ug/Kg	11/18/25 10:40	VW111825
124-48-1	Dibromochloromethane	20.9		1	0.87	5.00	ug/Kg	11/18/25 10:40	VW111825
106-93-4	1,2-Dibromoethane	21.4		1	0.88	5.00	ug/Kg	11/18/25 10:40	VW111825
127-18-4	Tetrachloroethene	21.7		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
108-90-7	Chlorobenzene	21.6		1	0.91	5.00	ug/Kg	11/18/25 10:40	VW111825
100-41-4	Ethyl Benzene	21.2		1	0.67	5.00	ug/Kg	11/18/25 10:40	VW111825
179601-23-1	m/p-Xylenes	43.5		1	1.20	10.0	ug/Kg	11/18/25 10:40	VW111825
95-47-6	o-Xylene	21.4		1	0.82	5.00	ug/Kg	11/18/25 10:40	VW111825
100-42-5	Styrene	21.6		1	0.71	5.00	ug/Kg	11/18/25 10:40	VW111825
75-25-2	Bromoform	20.1		1	0.86	5.00	ug/Kg	11/18/25 10:40	VW111825

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: VW1118SBS01
 Lab Sample ID: VW1118SBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 g

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 100
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	20.1		1	0.78	5.00	ug/Kg	11/18/25 10:40	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1	1.20	5.00	ug/Kg	11/18/25 10:40	VW111825
541-73-1	1,3-Dichlorobenzene	21.2		1	1.70	5.00	ug/Kg	11/18/25 10:40	VW111825
106-46-7	1,4-Dichlorobenzene	20.7		1	1.60	5.00	ug/Kg	11/18/25 10:40	VW111825
95-50-1	1,2-Dichlorobenzene	21.1		1	1.50	5.00	ug/Kg	11/18/25 10:40	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		1	1.80	5.00	ug/Kg	11/18/25 10:40	VW111825
120-82-1	1,2,4-Trichlorobenzene	20.1		1	3.00	5.00	ug/Kg	11/18/25 10:40	VW111825
87-61-6	1,2,3-Trichlorobenzene	20.0		1	3.20	5.00	ug/Kg	11/18/25 10:40	VW111825

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	53.7			70 (63) - 130 (155)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0			70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	52.0			70 (74) - 130 (123)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7			70 (52) - 130 (138)	103%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	368000
540-36-3	1,4-Difluorobenzene	685000
3114-55-4	Chlorobenzene-d5	608000
3855-82-1	1,4-Dichlorobenzene-d4	294000

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: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: VW1119SBS01
 Lab Sample ID: VW1119SBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 g

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 100
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	20.0		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
74-87-3	Chloromethane	21.9		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
75-01-4	Vinyl Chloride	21.9		1	0.79	5.00	ug/Kg	11/19/25 11:11	VW111925
74-83-9	Bromomethane	21.7		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
75-00-3	Chloroethane	20.4		1	1.30	5.00	ug/Kg	11/19/25 11:11	VW111925
75-69-4	Trichlorofluoromethane	18.3		1	1.20	5.00	ug/Kg	11/19/25 11:11	VW111925
76-13-1	1,1,2-Trichlorotrifluoroethane	21.7		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
75-35-4	1,1-Dichloroethene	21.0		1	1.00	5.00	ug/Kg	11/19/25 11:11	VW111925
67-64-1	Acetone	110		1	4.70	25.0	ug/Kg	11/19/25 11:11	VW111925
75-15-0	Carbon Disulfide	20.5		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
1634-04-4	Methyl tert-butyl Ether	19.5		1	0.73	5.00	ug/Kg	11/19/25 11:11	VW111925
79-20-9	Methyl Acetate	19.0		1	1.50	5.00	ug/Kg	11/19/25 11:11	VW111925
75-09-2	Methylene Chloride	22.6		1	3.50	10.0	ug/Kg	11/19/25 11:11	VW111925
156-60-5	trans-1,2-Dichloroethene	21.1		1	0.86	5.00	ug/Kg	11/19/25 11:11	VW111925
75-34-3	1,1-Dichloroethane	21.6		1	0.80	5.00	ug/Kg	11/19/25 11:11	VW111925
110-82-7	Cyclohexane	20.2		1	0.79	5.00	ug/Kg	11/19/25 11:11	VW111925
78-93-3	2-Butanone	96.2		1	6.50	25.0	ug/Kg	11/19/25 11:11	VW111925
56-23-5	Carbon Tetrachloride	21.4		1	0.97	5.00	ug/Kg	11/19/25 11:11	VW111925
156-59-2	cis-1,2-Dichloroethene	20.8		1	0.75	5.00	ug/Kg	11/19/25 11:11	VW111925
74-97-5	Bromochloromethane	22.0		1	1.20	5.00	ug/Kg	11/19/25 11:11	VW111925
67-66-3	Chloroform	21.9		1	0.84	5.00	ug/Kg	11/19/25 11:11	VW111925
71-55-6	1,1,1-Trichloroethane	21.2		1	0.93	5.00	ug/Kg	11/19/25 11:11	VW111925
108-87-2	Methylcyclohexane	19.6		1	0.91	5.00	ug/Kg	11/19/25 11:11	VW111925
71-43-2	Benzene	21.4		1	0.79	5.00	ug/Kg	11/19/25 11:11	VW111925
107-06-2	1,2-Dichloroethane	21.8		1	0.79	5.00	ug/Kg	11/19/25 11:11	VW111925
79-01-6	Trichloroethene	20.7		1	0.81	5.00	ug/Kg	11/19/25 11:11	VW111925
78-87-5	1,2-Dichloropropane	21.5		1	0.91	5.00	ug/Kg	11/19/25 11:11	VW111925
75-27-4	Bromodichloromethane	20.8		1	0.78	5.00	ug/Kg	11/19/25 11:11	VW111925
108-10-1	4-Methyl-2-Pentanone	100		1	3.60	25.0	ug/Kg	11/19/25 11:11	VW111925
108-88-3	Toluene	21.8		1	0.78	5.00	ug/Kg	11/19/25 11:11	VW111925
10061-02-6	t-1,3-Dichloropropene	20.2		1	0.65	5.00	ug/Kg	11/19/25 11:11	VW111925
10061-01-5	cis-1,3-Dichloropropene	20.0		1	0.62	5.00	ug/Kg	11/19/25 11:11	VW111925
79-00-5	1,1,2-Trichloroethane	21.2		1	0.92	5.00	ug/Kg	11/19/25 11:11	VW111925
591-78-6	2-Hexanone	96.5		1	3.70	25.0	ug/Kg	11/19/25 11:11	VW111925
124-48-1	Dibromochloromethane	21.1		1	0.87	5.00	ug/Kg	11/19/25 11:11	VW111925
106-93-4	1,2-Dibromoethane	20.5		1	0.88	5.00	ug/Kg	11/19/25 11:11	VW111925
127-18-4	Tetrachloroethene	20.7		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
108-90-7	Chlorobenzene	21.1		1	0.91	5.00	ug/Kg	11/19/25 11:11	VW111925
100-41-4	Ethyl Benzene	20.7		1	0.67	5.00	ug/Kg	11/19/25 11:11	VW111925
179601-23-1	m/p-Xylenes	41.8		1	1.20	10.0	ug/Kg	11/19/25 11:11	VW111925
95-47-6	o-Xylene	20.3		1	0.82	5.00	ug/Kg	11/19/25 11:11	VW111925
100-42-5	Styrene	21.1		1	0.71	5.00	ug/Kg	11/19/25 11:11	VW111925
75-25-2	Bromoform	19.6		1	0.86	5.00	ug/Kg	11/19/25 11:11	VW111925

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: VW1119SBS01
 Lab Sample ID: VW1119SBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 g

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 100
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	19.2		1	0.78	5.00	ug/Kg	11/19/25 11:11	VW111925
79-34-5	1,1,2,2-Tetrachloroethane	20.4		1	1.20	5.00	ug/Kg	11/19/25 11:11	VW111925
541-73-1	1,3-Dichlorobenzene	21.1		1	1.70	5.00	ug/Kg	11/19/25 11:11	VW111925
106-46-7	1,4-Dichlorobenzene	20.4		1	1.60	5.00	ug/Kg	11/19/25 11:11	VW111925
95-50-1	1,2-Dichlorobenzene	21.4		1	1.50	5.00	ug/Kg	11/19/25 11:11	VW111925
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		1	1.80	5.00	ug/Kg	11/19/25 11:11	VW111925
120-82-1	1,2,4-Trichlorobenzene	19.1		1	3.00	5.00	ug/Kg	11/19/25 11:11	VW111925
87-61-6	1,2,3-Trichlorobenzene	20.2		1	3.20	5.00	ug/Kg	11/19/25 11:11	VW111925

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.2			70 (63) - 130 (155)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8			70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	52.2			70 (74) - 130 (123)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7			70 (52) - 130 (138)	101%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	361000
540-36-3	1,4-Difluorobenzene	660000
3114-55-4	Chlorobenzene-d5	591000
3855-82-1	1,4-Dichlorobenzene-d4	285000

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: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: VW1118SBSD01
 Lab Sample ID: VW1118SBSD01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 g

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 100
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	21.9		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
74-87-3	Chloromethane	22.0		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
75-01-4	Vinyl Chloride	22.5		1	0.79	5.00	ug/Kg	11/18/25 11:02	VW111825
74-83-9	Bromomethane	22.2		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
75-00-3	Chloroethane	21.7		1	1.30	5.00	ug/Kg	11/18/25 11:02	VW111825
75-69-4	Trichlorofluoromethane	22.1		1	1.20	5.00	ug/Kg	11/18/25 11:02	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	22.7		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
75-35-4	1,1-Dichloroethene	22.3		1	1.00	5.00	ug/Kg	11/18/25 11:02	VW111825
67-64-1	Acetone	100		1	4.70	25.0	ug/Kg	11/18/25 11:02	VW111825
75-15-0	Carbon Disulfide	21.5		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
1634-04-4	Methyl tert-butyl Ether	20.7		1	0.73	5.00	ug/Kg	11/18/25 11:02	VW111825
79-20-9	Methyl Acetate	20.0		1	1.50	5.00	ug/Kg	11/18/25 11:02	VW111825
75-09-2	Methylene Chloride	23.6		1	3.50	10.0	ug/Kg	11/18/25 11:02	VW111825
156-60-5	trans-1,2-Dichloroethene	22.1		1	0.86	5.00	ug/Kg	11/18/25 11:02	VW111825
75-34-3	1,1-Dichloroethane	22.6		1	0.80	5.00	ug/Kg	11/18/25 11:02	VW111825
110-82-7	Cyclohexane	22.0		1	0.79	5.00	ug/Kg	11/18/25 11:02	VW111825
78-93-3	2-Butanone	100		1	6.50	25.0	ug/Kg	11/18/25 11:02	VW111825
56-23-5	Carbon Tetrachloride	22.5		1	0.97	5.00	ug/Kg	11/18/25 11:02	VW111825
156-59-2	cis-1,2-Dichloroethene	21.6		1	0.75	5.00	ug/Kg	11/18/25 11:02	VW111825
74-97-5	Bromochloromethane	22.8		1	1.20	5.00	ug/Kg	11/18/25 11:02	VW111825
67-66-3	Chloroform	22.7		1	0.84	5.00	ug/Kg	11/18/25 11:02	VW111825
71-55-6	1,1,1-Trichloroethane	22.3		1	0.93	5.00	ug/Kg	11/18/25 11:02	VW111825
108-87-2	Methylcyclohexane	20.8		1	0.91	5.00	ug/Kg	11/18/25 11:02	VW111825
71-43-2	Benzene	21.8		1	0.79	5.00	ug/Kg	11/18/25 11:02	VW111825
107-06-2	1,2-Dichloroethane	21.8		1	0.79	5.00	ug/Kg	11/18/25 11:02	VW111825
79-01-6	Trichloroethene	21.3		1	0.81	5.00	ug/Kg	11/18/25 11:02	VW111825
78-87-5	1,2-Dichloropropane	21.8		1	0.91	5.00	ug/Kg	11/18/25 11:02	VW111825
75-27-4	Bromodichloromethane	21.4		1	0.78	5.00	ug/Kg	11/18/25 11:02	VW111825
108-10-1	4-Methyl-2-Pentanone	110		1	3.60	25.0	ug/Kg	11/18/25 11:02	VW111825
108-88-3	Toluene	21.9		1	0.78	5.00	ug/Kg	11/18/25 11:02	VW111825
10061-02-6	t-1,3-Dichloropropene	20.4		1	0.65	5.00	ug/Kg	11/18/25 11:02	VW111825
10061-01-5	cis-1,3-Dichloropropene	20.8		1	0.62	5.00	ug/Kg	11/18/25 11:02	VW111825
79-00-5	1,1,2-Trichloroethane	21.2		1	0.92	5.00	ug/Kg	11/18/25 11:02	VW111825
591-78-6	2-Hexanone	100		1	3.70	25.0	ug/Kg	11/18/25 11:02	VW111825
124-48-1	Dibromochloromethane	20.7		1	0.87	5.00	ug/Kg	11/18/25 11:02	VW111825
106-93-4	1,2-Dibromoethane	20.9		1	0.88	5.00	ug/Kg	11/18/25 11:02	VW111825
127-18-4	Tetrachloroethene	21.2		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
108-90-7	Chlorobenzene	21.5		1	0.91	5.00	ug/Kg	11/18/25 11:02	VW111825
100-41-4	Ethyl Benzene	21.9		1	0.67	5.00	ug/Kg	11/18/25 11:02	VW111825
179601-23-1	m/p-Xylenes	44.4		1	1.20	10.0	ug/Kg	11/18/25 11:02	VW111825
95-47-6	o-Xylene	21.2		1	0.82	5.00	ug/Kg	11/18/25 11:02	VW111825
100-42-5	Styrene	21.9		1	0.71	5.00	ug/Kg	11/18/25 11:02	VW111825
75-25-2	Bromoform	19.3		1	0.86	5.00	ug/Kg	11/18/25 11:02	VW111825



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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: VW1118SBSD01
Lab Sample ID: VW1118SBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3649
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	21.7		1	0.78	5.00	ug/Kg	11/18/25 11:02	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	22.3		1	1.20	5.00	ug/Kg	11/18/25 11:02	VW111825
541-73-1	1,3-Dichlorobenzene	22.5		1	1.70	5.00	ug/Kg	11/18/25 11:02	VW111825
106-46-7	1,4-Dichlorobenzene	21.6		1	1.60	5.00	ug/Kg	11/18/25 11:02	VW111825
95-50-1	1,2-Dichlorobenzene	21.7		1	1.50	5.00	ug/Kg	11/18/25 11:02	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		1	1.80	5.00	ug/Kg	11/18/25 11:02	VW111825
120-82-1	1,2,4-Trichlorobenzene	19.9		1	3.00	5.00	ug/Kg	11/18/25 11:02	VW111825
87-61-6	1,2,3-Trichlorobenzene	20.5		1	3.20	5.00	ug/Kg	11/18/25 11:02	VW111825

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.2			70 (63) - 130 (155)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5			70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	51.2			70 (74) - 130 (123)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7			70 (52) - 130 (138)	99%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	368000
540-36-3	1,4-Difluorobenzene	692000
3114-55-4	Chlorobenzene-d5	614000
3855-82-1	1,4-Dichlorobenzene-d4	277000

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: <u>Alliance</u>	Contract: <u>HDRI08</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3649</u>
Instrument ID: <u>MSVOA_W</u>	Calibration Date(s): <u>11/10/2025</u> <u>11/10/2025</u>
Heated Purge: (Y/N) <u>Y</u>	Calibration Time(s): <u>15:11</u> <u>17:00</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID:								
RRF005 = VW032406.D			RRF010 = VW032407.D			RRF020 = VW032408.D		
RRF050 = VW032409.D			RRF100 = VW032410.D			RRF150 = VW032411.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.288	0.282	0.231	0.248	0.243	0.230	0.254	10
Chloromethane	0.476	0.439	0.408	0.408	0.438	0.440	0.435	5.8
Vinyl Chloride	0.591	0.567	0.525	0.538	0.543	0.528	0.549	4.6
Bromomethane	0.402	0.371	0.350	0.358	0.364	0.358	0.367	5.1
Chloroethane	0.382	0.361	0.340	0.355	0.362	0.354	0.359	3.9
Trichlorofluoromethane	0.420	0.416	0.392	0.459	0.442	0.452	0.430	5.9
1,1,2-Trichlorotrifluoroethane	0.506	0.495	0.438	0.467	0.458	0.449	0.469	5.6
1,1-Dichloroethene	0.576	0.541	0.506	0.540	0.539	0.523	0.537	4.3
Acetone	0.216	0.194	0.183	0.186	0.190	0.188	0.193	6.3
Carbon Disulfide	1.604	1.574	1.497	1.608	1.644	1.603	1.588	3.1
Methyl tert-butyl Ether	1.186	1.163	1.107	1.139	1.126	1.076	1.133	3.5
Methyl Acetate	0.486	0.494	0.459	0.463	0.476	0.487	0.478	2.9
Methylene Chloride	0.789	0.741	0.682	0.640	0.658	0.629	0.690	9.1
trans-1,2-Dichloroethene	0.646	0.619	0.596	0.603	0.624	0.598	0.615	3.1
1,1-Dichloroethane	1.217	1.156	1.091	1.148	1.168	1.138	1.153	3.5
Cyclohexane	1.236	1.141	1.016	1.027	1.003	0.976	1.066	9.5
2-Butanone	0.292	0.288	0.282	0.280	0.284	0.278	0.284	1.9
Carbon Tetrachloride	0.392	0.398	0.386	0.399	0.386	0.391	0.392	1.4
cis-1,2-Dichloroethene	0.764	0.727	0.713	0.729	0.748	0.723	0.734	2.5
Bromochloromethane	0.606	0.563	0.533	0.502	0.538	0.527	0.545	6.6
Chloroform	1.164	1.165	1.089	1.109	1.141	1.103	1.129	2.9
1,1,1-Trichloroethane	0.831	0.820	0.776	0.817	0.817	0.777	0.806	2.9
Methylcyclohexane	0.560	0.575	0.562	0.598	0.562	0.572	0.571	2.5
Benzene	1.410	1.473	1.410	1.437	1.413	1.380	1.420	2.2
1,2-Dichloroethane	0.425	0.423	0.416	0.421	0.409	0.409	0.417	1.7
Trichloroethene	0.336	0.340	0.327	0.335	0.323	0.323	0.331	2.2
1,2-Dichloropropane	0.356	0.360	0.354	0.356	0.350	0.346	0.354	1.4
Bromodichloromethane	0.460	0.469	0.456	0.482	0.481	0.482	0.471	2.5
4-Methyl-2-Pentanone	0.304	0.329	0.330	0.336	0.317	0.311	0.321	3.9
Toluene	0.875	0.896	0.870	0.894	0.870	0.859	0.877	1.7

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>HDRI08</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3649</u>
Instrument ID: <u>MSVOA_W</u>	Calibration Date(s): <u>11/10/2025</u> <u>11/10/2025</u>
Heated Purge: (Y/N) <u>Y</u>	Calibration Time(s): <u>15:11</u> <u>17:00</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID:		RRF005 = VW032406.D		RRF010 = VW032407.D		RRF020 = VW032408.D		
		RRF050 = VW032409.D		RRF100 = VW032410.D		RRF150 = VW032411.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.445	0.481	0.469	0.504	0.508	0.507	0.486	5.2
cis-1,3-Dichloropropene	0.531	0.553	0.556	0.579	0.576	0.574	0.562	3.2
1,1,2-Trichloroethane	0.288	0.283	0.282	0.293	0.278	0.277	0.284	2.1
2-Hexanone	0.223	0.245	0.241	0.244	0.231	0.226	0.235	4
Dibromochloromethane	0.306	0.317	0.314	0.320	0.320	0.322	0.317	1.9
1,2-Dibromoethane	0.261	0.292	0.279	0.281	0.272	0.272	0.276	3.8
Tetrachloroethene	0.298	0.304	0.285	0.300	0.303	0.287	0.296	2.8
Chlorobenzene	1.087	1.088	1.042	1.133	1.093	1.023	1.078	3.7
Ethyl Benzene	1.875	1.853	1.822	1.944	1.915	1.779	1.865	3.2
m/p-Xylenes	0.692	0.713	0.679	0.732	0.708	0.677	0.700	3
o-Xylene	0.668	0.659	0.662	0.682	0.699	0.653	0.670	2.5
Styrene	1.104	1.146	1.132	1.208	1.212	1.118	1.153	4
Bromoform	0.187	0.201	0.193	0.203	0.205	0.196	0.198	3.5
Isopropylbenzene	3.523	3.562	3.511	3.968	3.781	3.689	3.672	4.9
1,1,2,2-Tetrachloroethane	0.886	0.869	0.845	0.927	0.871	0.831	0.871	3.8
1,3-Dichlorobenzene	1.665	1.630	1.620	1.721	1.659	1.596	1.648	2.7
1,4-Dichlorobenzene	1.776	1.680	1.644	1.774	1.658	1.602	1.689	4.2
1,2-Dichlorobenzene	1.547	1.528	1.464	1.545	1.509	1.488	1.513	2.2
1,2-Dibromo-3-Chloropropane	0.145	0.146	0.145	0.159	0.152	0.154	0.150	3.8
1,2,4-Trichlorobenzene	0.943	0.917	0.923	1.032	0.972	0.992	0.963	4.6
1,2,3-Trichlorobenzene	0.892	0.831	0.836	0.901	0.880	0.906	0.874	3.8
1,2-Dichloroethane-d4	0.691	0.654	0.647	0.605	0.640	0.630	0.645	4.4
Dibromofluoromethane	0.314	0.302	0.305	0.287	0.297	0.291	0.299	3.3
Toluene-d8	1.171	1.176	1.152	1.130	1.136	1.125	1.148	1.9
4-Bromofluorobenzene	0.444	0.444	0.454	0.415	0.426	0.421	0.434	3.6

* 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:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3649</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>11/18/2025 09:46</u>
Lab File ID:	<u>VW032468.D</u>	Init. Calib. Date(s):	<u>11/10/2025 11/10/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>15:11 17:00</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.254	0.247		-2.76	20
Chloromethane	0.435	0.410	0.1	-5.75	20
Vinyl Chloride	0.549	0.573		4.37	20
Bromomethane	0.367	0.375		2.18	20
Chloroethane	0.359	0.380		5.85	20
Trichlorofluoromethane	0.430	0.445		3.49	20
1,1,2-Trichlorotrifluoroethane	0.469	0.492		4.9	20
1,1-Dichloroethene	0.537	0.549		2.23	20
Acetone	0.193	0.208		7.77	20
Carbon Disulfide	1.588	1.625		2.33	20
Methyl tert-butyl Ether	1.133	1.200		5.91	20
Methyl Acetate	0.478	0.544		13.81	20
Methylene Chloride	0.690	0.704		2.03	20
trans-1,2-Dichloroethene	0.615	0.640		4.07	20
1,1-Dichloroethane	1.153	1.234	0.1	7.03	20
Cyclohexane	1.066	1.052		-1.31	20
2-Butanone	0.284	0.296		4.22	20
Carbon Tetrachloride	0.392	0.418		6.63	20
cis-1,2-Dichloroethene	0.734	0.773		5.31	20
Bromochloromethane	0.545	0.588		7.89	20
Chloroform	1.129	1.213		7.44	20
1,1,1-Trichloroethane	0.806	0.852		5.71	20
Methylcyclohexane	0.571	0.590		3.33	20
Benzene	1.420	1.504		5.91	20
1,2-Dichloroethane	0.417	0.458		9.83	20
Trichloroethene	0.331	0.339		2.42	20
1,2-Dichloropropane	0.354	0.380		7.34	20
Bromodichloromethane	0.471	0.501		6.37	20
4-Methyl-2-Pentanone	0.321	0.360		12.15	20
Toluene	0.877	0.931		6.16	20
t-1,3-Dichloropropene	0.486	0.516		6.17	20
cis-1,3-Dichloropropene	0.562	0.601		6.94	20
1,1,2-Trichloroethane	0.284	0.305		7.39	20
2-Hexanone	0.235	0.255		8.51	20
Dibromochloromethane	0.317	0.346		9.15	20
1,2-Dibromoethane	0.276	0.291		5.43	20
Tetrachloroethene	0.296	0.303		2.37	20
Chlorobenzene	1.078	1.138	0.3	5.57	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:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3649</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>11/18/2025</u> <u>09:46</u>
Lab File ID:	<u>VW032468.D</u>	Init. Calib. Date(s):	<u>11/10/2025</u> <u>11/10/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>15:11</u> <u>17:00</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.865	1.941		4.07	20
m/p-Xylenes	0.700	0.733		4.71	20
o-Xylene	0.670	0.694		3.58	20
Styrene	1.153	1.249		8.33	20
Bromoform	0.198	0.203	0.1	2.53	20
Isopropylbenzene	3.672	3.748		2.07	20
1,1,2,2-Tetrachloroethane	0.871	0.927	0.3	6.43	20
1,3-Dichlorobenzene	1.648	1.713		3.94	20
1,4-Dichlorobenzene	1.689	1.691		0.12	20
1,2-Dichlorobenzene	1.513	1.598		5.62	20
1,2-Dibromo-3-Chloropropane	0.150	0.155		3.33	20
1,2,4-Trichlorobenzene	0.963	0.914		-5.09	20
1,2,3-Trichlorobenzene	0.874	0.850		-2.75	20
1,2-Dichloroethane-d4	0.645	0.695		7.75	20
Dibromofluoromethane	0.299	0.310		3.68	20
Toluene-d8	1.148	1.197		4.27	20
4-Bromofluorobenzene	0.434	0.457		5.3	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:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3649</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>11/19/2025</u> <u>10:01</u>
Lab File ID:	<u>VW032490.D</u>	Init. Calib. Date(s):	<u>11/10/2025</u> <u>11/10/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>15:11</u> <u>17:00</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.254	0.275		8.27	20
Chloromethane	0.435	0.456	0.1	4.83	20
Vinyl Chloride	0.549	0.594		8.2	20
Bromomethane	0.367	0.393		7.08	20
Chloroethane	0.359	0.382		6.41	20
Trichlorofluoromethane	0.430	0.419		-2.56	20
1,1,2-Trichlorotrifluoroethane	0.469	0.514		9.6	20
1,1-Dichloroethene	0.537	0.587		9.31	20
Acetone	0.193	0.217		12.44	20
Carbon Disulfide	1.588	1.707		7.49	20
Methyl tert-butyl Ether	1.133	1.191		5.12	20
Methyl Acetate	0.478	0.544		13.81	20
Methylene Chloride	0.690	0.738		6.96	20
trans-1,2-Dichloroethene	0.615	0.678		10.24	20
1,1-Dichloroethane	1.153	1.290	0.1	11.88	20
Cyclohexane	1.066	1.077		1.03	20
2-Butanone	0.284	0.303		6.69	20
Carbon Tetrachloride	0.392	0.429		9.44	20
cis-1,2-Dichloroethene	0.734	0.800		8.99	20
Bromochloromethane	0.545	0.601		10.27	20
Chloroform	1.129	1.290		14.26	20
1,1,1-Trichloroethane	0.806	0.859		6.58	20
Methylcyclohexane	0.571	0.600		5.08	20
Benzene	1.420	1.545		8.8	20
1,2-Dichloroethane	0.417	0.472		13.19	20
Trichloroethene	0.331	0.343		3.63	20
1,2-Dichloropropane	0.354	0.399		12.71	20
Bromodichloromethane	0.471	0.534		13.38	20
4-Methyl-2-Pentanone	0.321	0.360		12.15	20
Toluene	0.877	0.971		10.72	20
t-1,3-Dichloropropene	0.486	0.523		7.61	20
cis-1,3-Dichloropropene	0.562	0.604		7.47	20
1,1,2-Trichloroethane	0.284	0.315		10.91	20
2-Hexanone	0.235	0.257		9.36	20
Dibromochloromethane	0.317	0.346		9.15	20
1,2-Dibromoethane	0.276	0.296		7.25	20
Tetrachloroethene	0.296	0.324		9.46	20
Chlorobenzene	1.078	1.146	0.3	6.31	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:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3649</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>11/19/2025</u> <u>10:01</u>
Lab File ID:	<u>VW032490.D</u>	Init. Calib. Date(s):	<u>11/10/2025</u> <u>11/10/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>15:11</u> <u>17:00</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.865	1.963		5.26	20
m/p-Xylenes	0.700	0.774		10.57	20
o-Xylene	0.670	0.727		8.51	20
Styrene	1.153	1.262		9.45	20
Bromoform	0.198	0.212	0.1	7.07	20
Isopropylbenzene	3.672	3.940		7.3	20
1,1,2,2-Tetrachloroethane	0.871	0.955	0.3	9.64	20
1,3-Dichlorobenzene	1.648	1.823		10.62	20
1,4-Dichlorobenzene	1.689	1.798		6.45	20
1,2-Dichlorobenzene	1.513	1.662		9.85	20
1,2-Dibromo-3-Chloropropane	0.150	0.154		2.67	20
1,2,4-Trichlorobenzene	0.963	1.008		4.67	20
1,2,3-Trichlorobenzene	0.874	0.913		4.46	20
1,2-Dichloroethane-d4	0.645	0.700		8.53	20
Dibromofluoromethane	0.299	0.314		5.02	20
Toluene-d8	1.148	1.220		6.27	20
4-Bromofluorobenzene	0.434	0.459		5.76	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_W\Data\VW111925\
Data File : VW032496.D
Acq On : 19 Nov 2025 12:52
Operator : SY/MD
Sample : Q3649-02
Misc : 7.34g/5mL/MSVOA_W/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Quant Time: Nov 20 01:17:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	198251	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	468638	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	515247	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	242262	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	159876	62.551	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	125.100%
35) Dibromofluoromethane	7.898	113	142415	50.756	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	101.520%
50) Toluene-d8	10.331	98	494358	45.926	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	91.860%
62) 4-Bromofluorobenzene	12.617	95	226269	55.645	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	111.300%

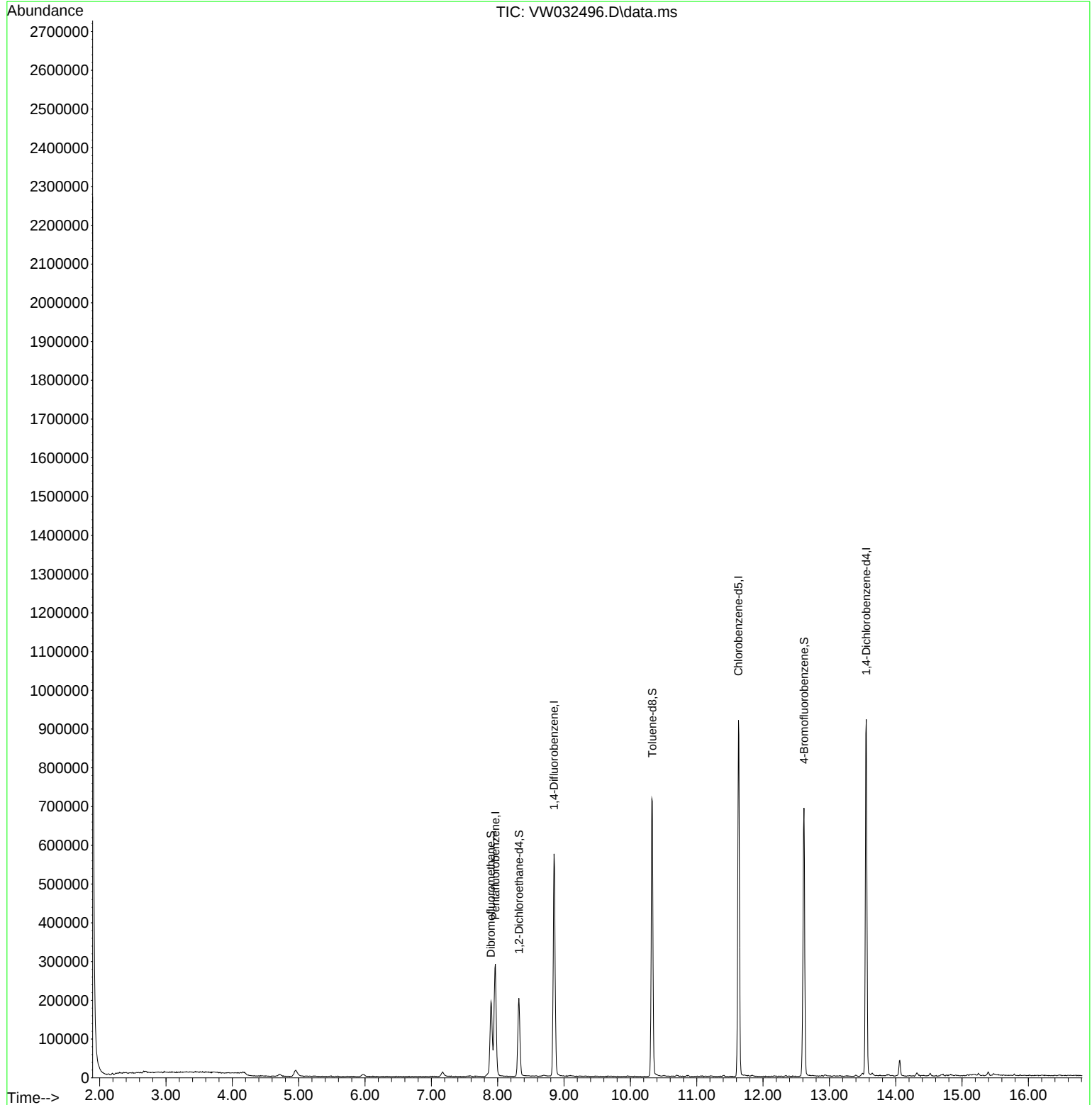
Target Compounds	Qvalue

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

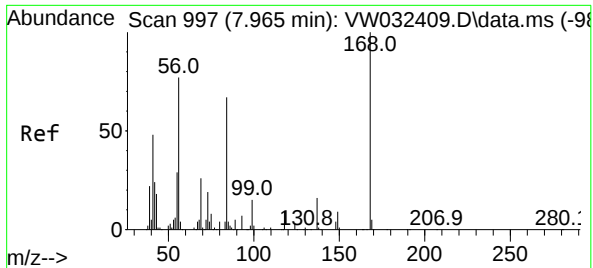
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Data File : VW032496.D
Acq On : 19 Nov 2025 12:52
Operator : SY/MD
Sample : Q3649-02
Misc : 7.34g/5mL/MSVOA_W/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Quant Time: Nov 20 01:17:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



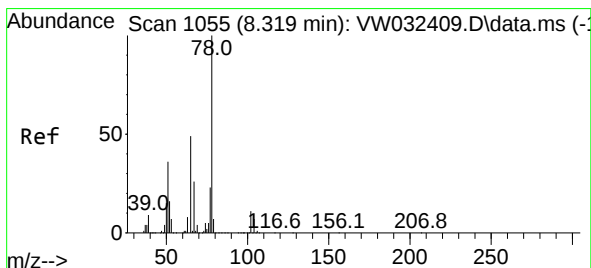
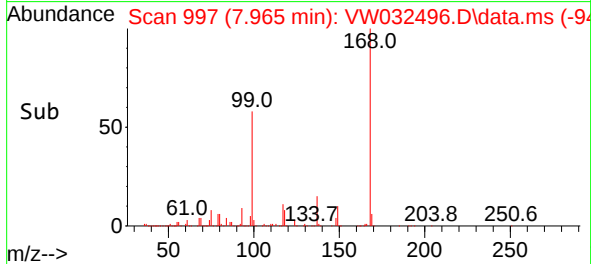
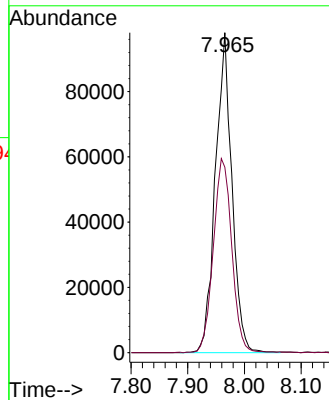
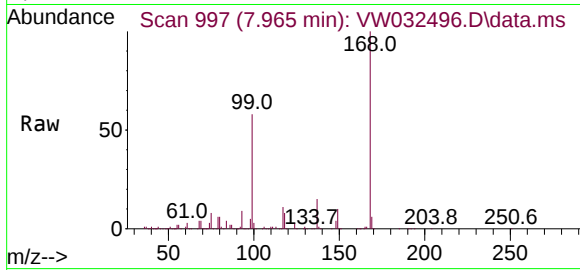
A
B
C
D
E
F
G
H
I
J



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

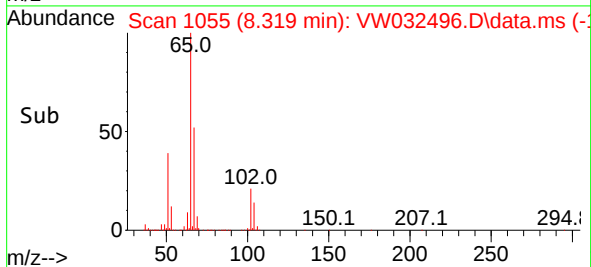
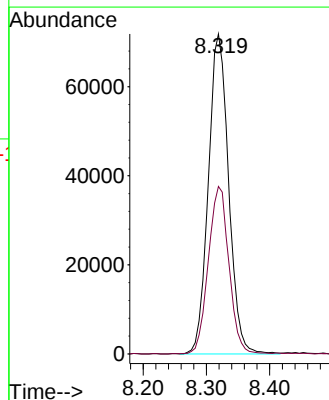
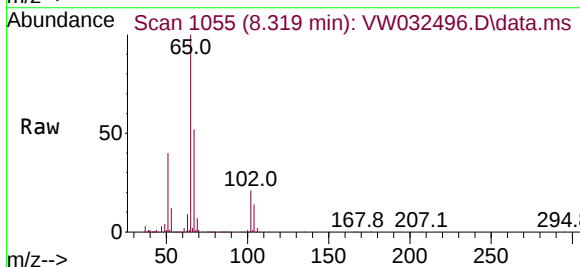
Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

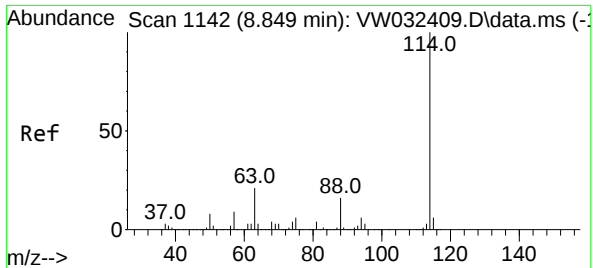
Tgt Ion:168 Resp: 198251
Ion Ratio Lower Upper
168 100
99 57.8 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 62.551 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

Tgt Ion: 65 Resp: 159876
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.8

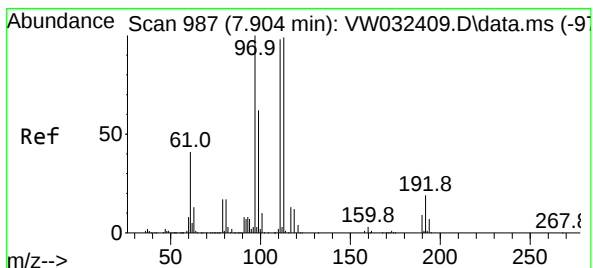
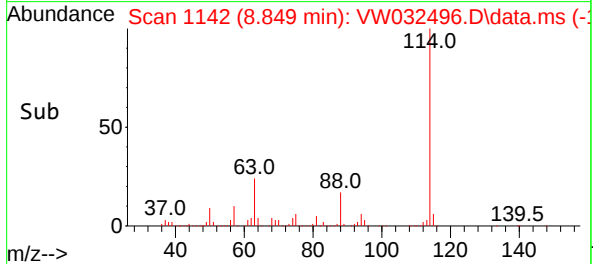
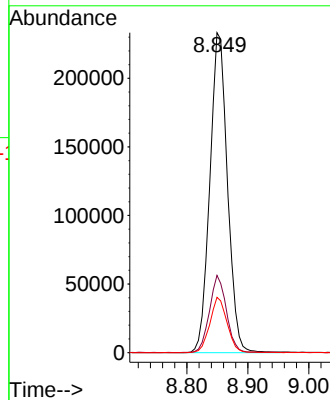
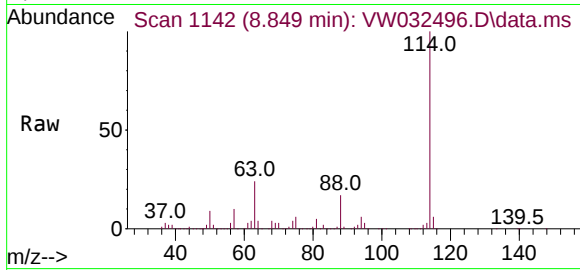




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

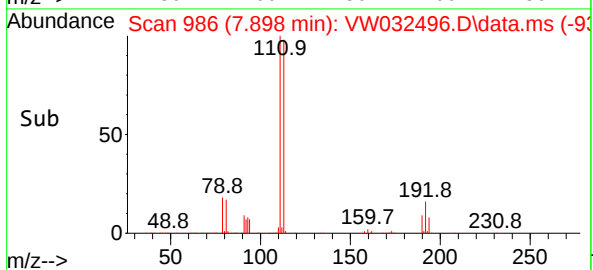
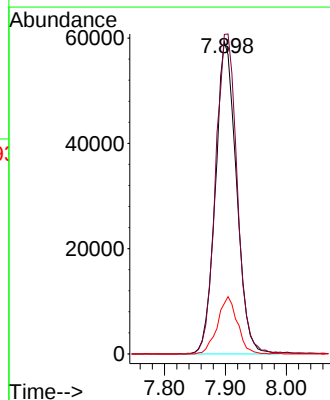
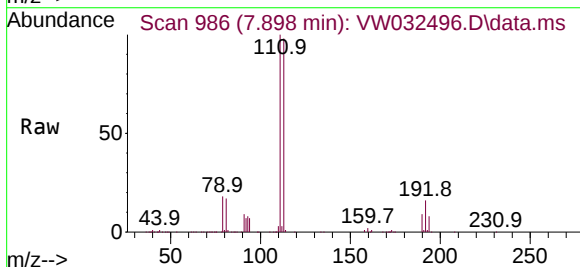
Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

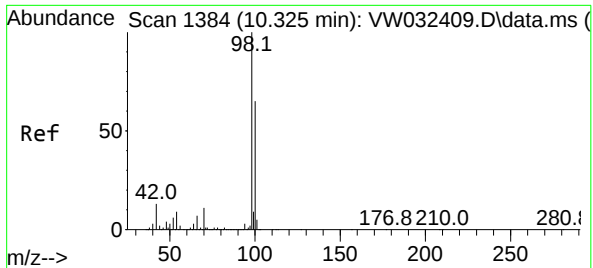
Tgt Ion:	114	Resp:	468638
Ion Ratio	Lower	Upper	
114	100		
63	24.1	0.0	41.8
88	17.3	0.0	32.6



#35
Dibromofluoromethane
Concen: 50.756 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

Tgt Ion:	113	Resp:	142415
Ion Ratio	Lower	Upper	
113	100		
111	104.4	83.1	124.7
192	17.3	13.4	20.2

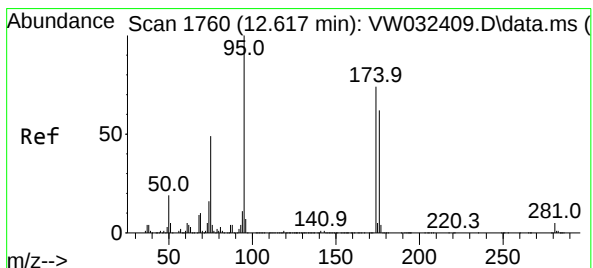
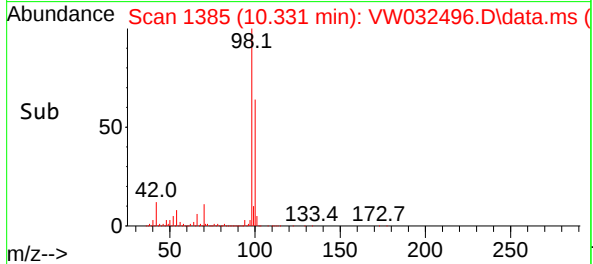
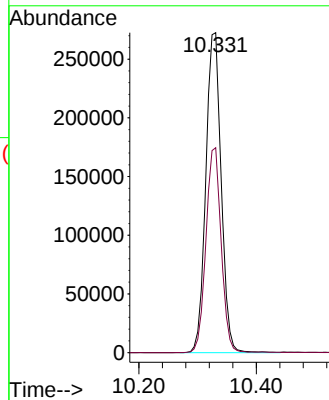
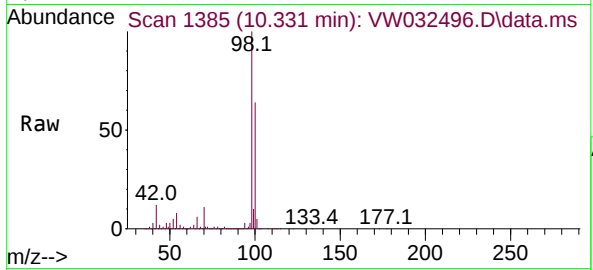




#50
Toluene-d8
Concen: 45.926 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

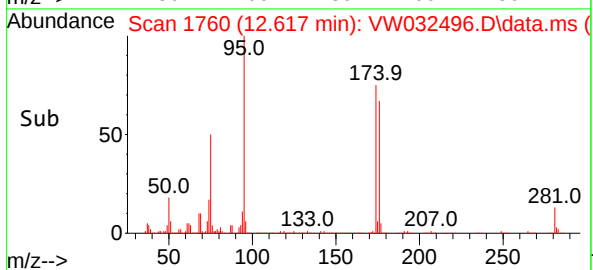
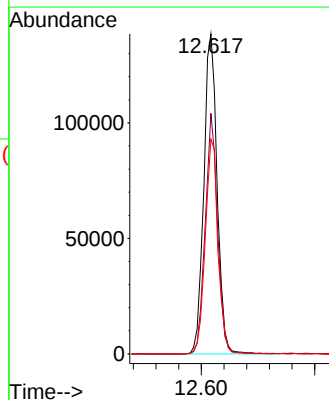
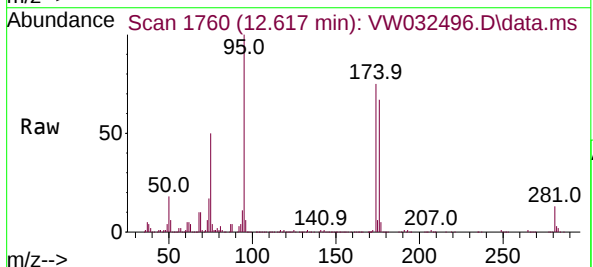
Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

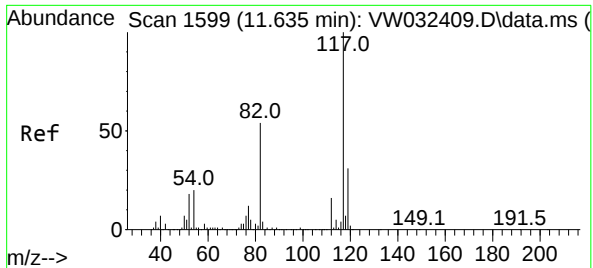
Tgt Ion: 98 Resp: 494358
Ion Ratio Lower Upper
98 100
100 63.6 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 55.645 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

Tgt Ion: 95 Resp: 226269
Ion Ratio Lower Upper
95 100
174 69.8 0.0 135.4
176 64.1 0.0 131.8

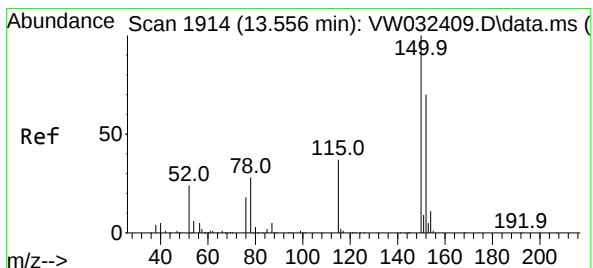
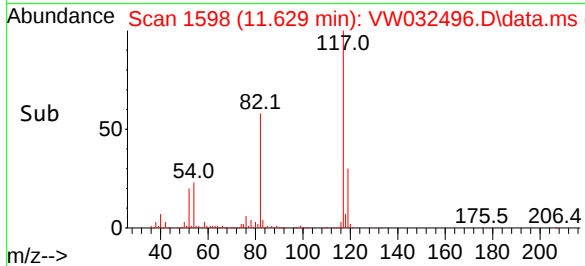
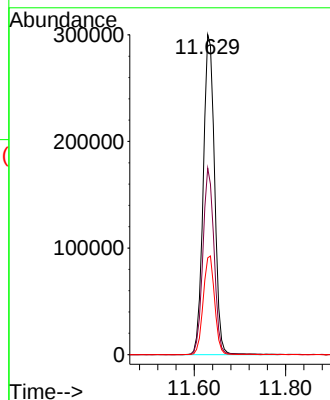
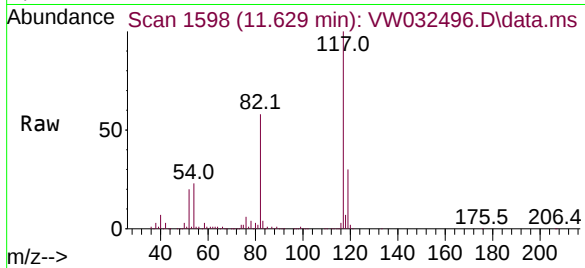




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

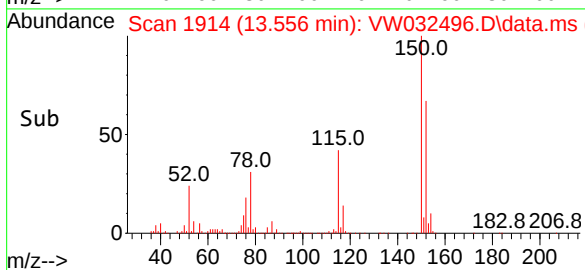
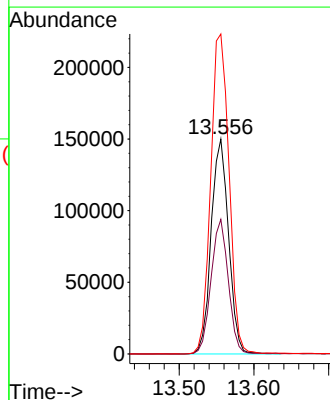
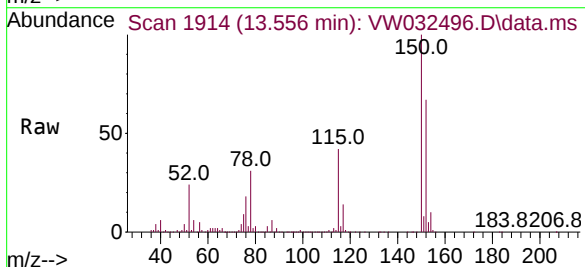
Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.3	43.0	64.4
119	30.2	25.0	37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.0	32.8	98.3
150	156.6	0.0	356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032496.D
 Acq On : 19 Nov 2025 12:52
 Operator : SY/MD
 Sample : Q3649-02
 Misc : 7.34g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B5-0.5-1.0-20251114

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_W\Method\82W1110255.M

Title : SW846 8260

Signal : TIC: VW032496.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	493	503	519	rBV2	15727	59349	3.73%	0.693%
2	7.167	857	866	878	rBV	11909	36084	2.27%	0.422%
3	7.898	969	986	991	rBV2	194106	481306	30.29%	5.623%
4	7.965	991	997	1010	rVB2	288956	654046	41.16%	7.641%
5	8.319	1046	1055	1066	rBV	201328	444541	27.97%	5.193%
6	8.849	1133	1142	1159	rBV	573578	1146227	72.13%	13.391%
7	10.325	1374	1384	1402	rBV	716300	1319381	83.03%	15.414%
8	11.629	1587	1598	1608	rBV	919503	1589089	100.00%	18.565%
9	12.617	1751	1760	1773	rBV2	691783	1239532	78.00%	14.481%
10	13.556	1907	1914	1925	rVB	916666	1514545	95.31%	17.694%
11	14.062	1985	1997	2006	rBV2	40682	75674	4.76%	0.884%

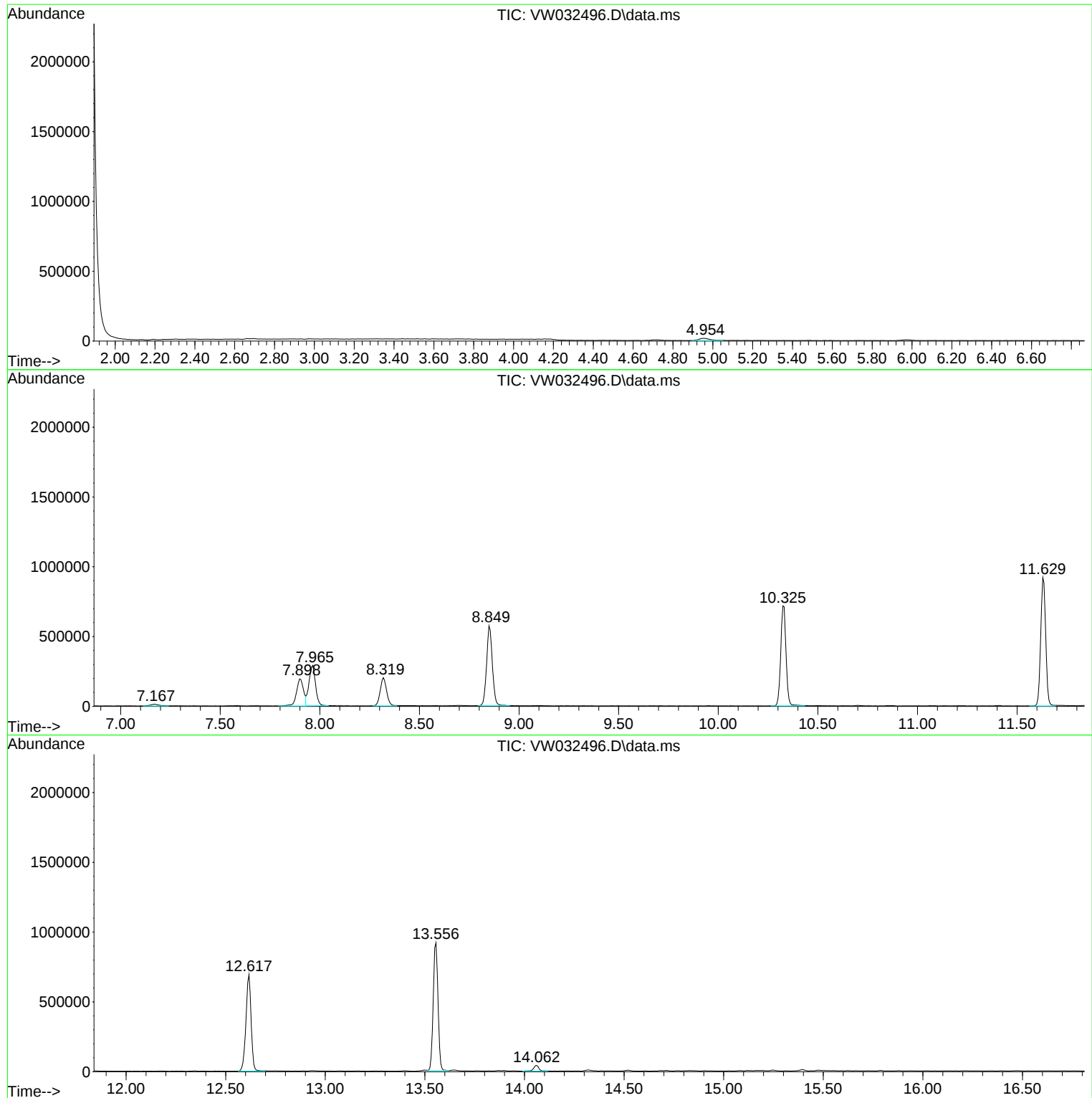
Sum of corrected areas: 8559774

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032496.D
Acq On : 19 Nov 2025 12:52
Operator : SY/MD
Sample : Q3649-02
Misc : 7.34g/5mL/MSVOA_W/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032496.D
Acq On : 19 Nov 2025 12:52
Operator : SY/MD
Sample : Q3649-02
Misc : 7.34g/5mL/MSVOA_W/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111925\
Data File : VW032496.D
Acq On : 19 Nov 2025 12:52
Operator : SY/MD
Sample : Q3649-02
Misc : 7.34g/5mL/MSVOA_W/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032497.D
Acq On : 19 Nov 2025 13:14
Operator : SY/MD
Sample : Q3649-04
Misc : 6.21g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

Quant Time: Nov 20 01:18:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

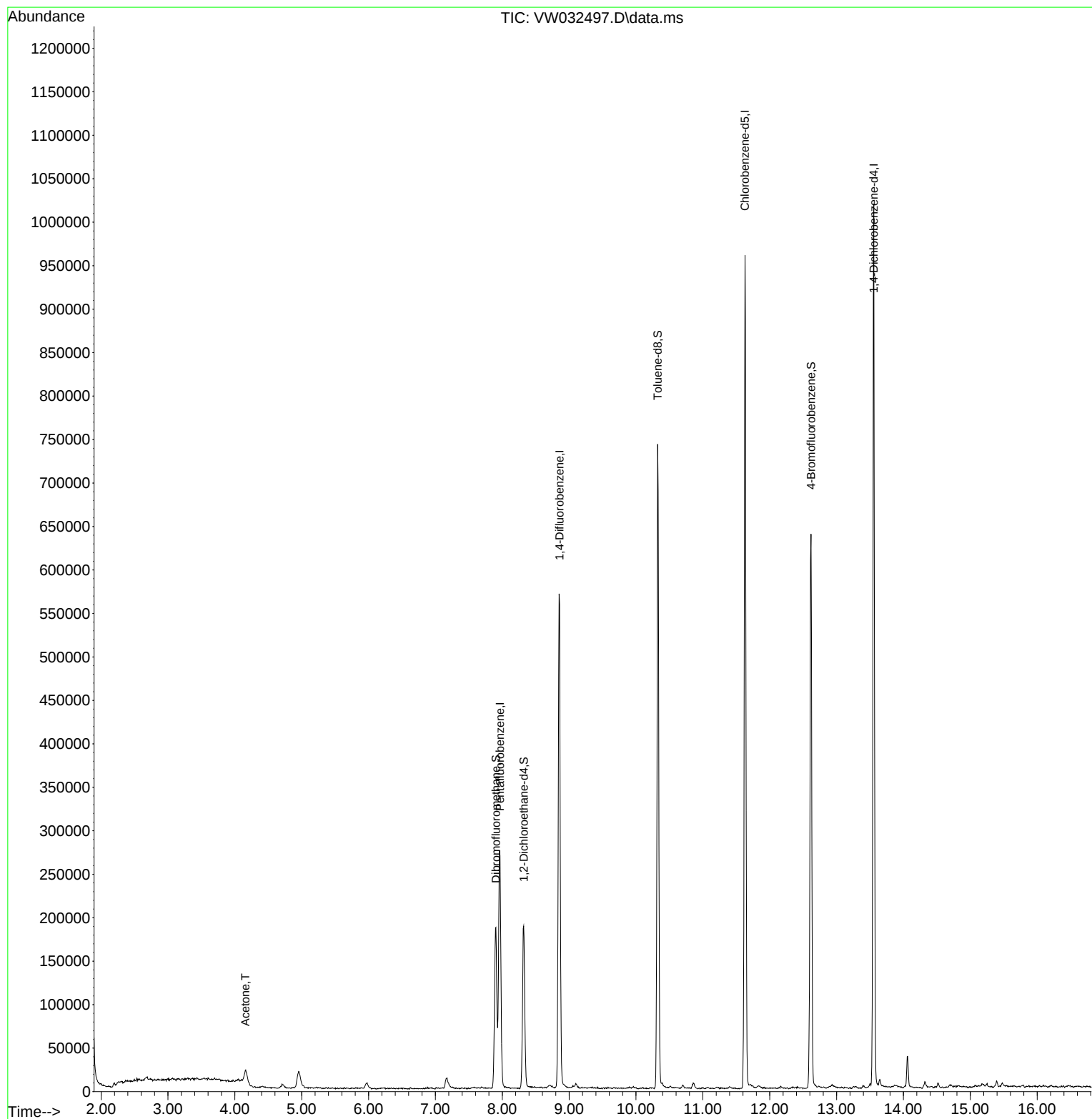
Internal Standards						
1) Pentafluorobenzene	7.965	168	197627	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	485828	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	516048	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	249401	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	153222	60.137	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 120.280%		
35) Dibromofluoromethane	7.904	113	141253	48.561	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 97.120%		
50) Toluene-d8	10.325	98	494342	44.300	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 88.600%		
62) 4-Bromofluorobenzene	12.617	95	216521	51.364	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 102.720%		
Target Compounds						
16) Acetone	4.155	43	24175	31.715	ug/l	Qvalue 99

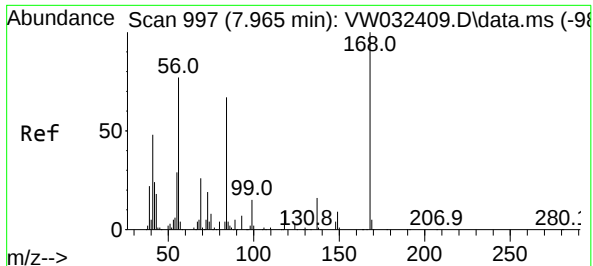
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032497.D
Acq On : 19 Nov 2025 13:14
Operator : SY/MD
Sample : Q3649-04
Misc : 6.21g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

Quant Time: Nov 20 01:18:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

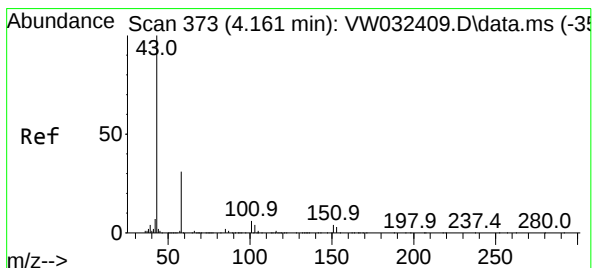
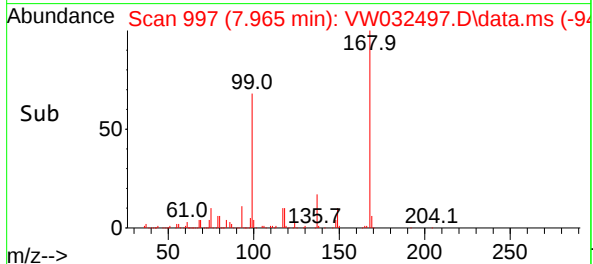
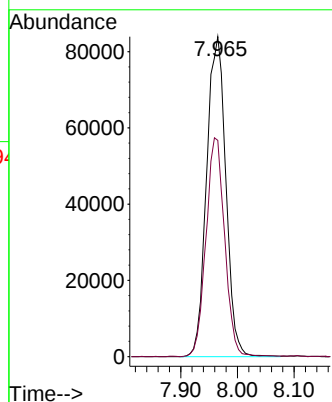
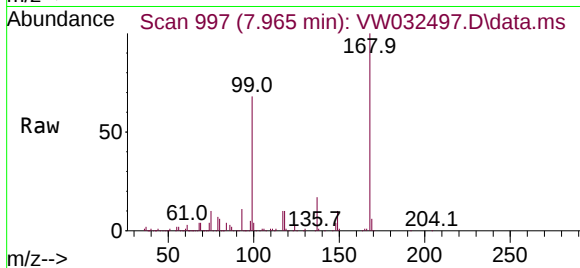




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

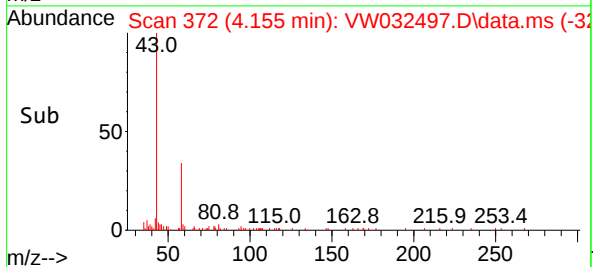
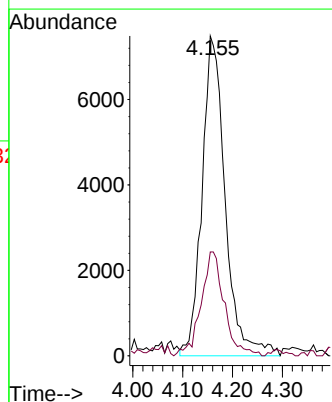
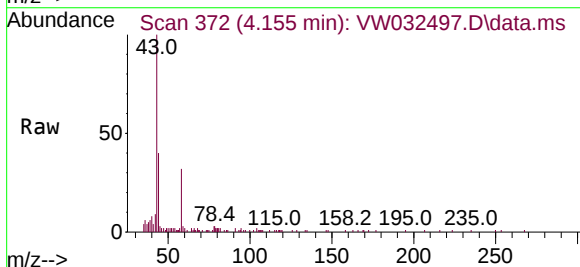
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

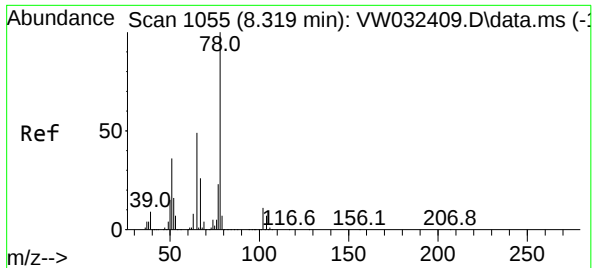
Tgt Ion:168 Resp: 197627
Ion Ratio Lower Upper
168 100
99 67.6 45.4 68.2



#16
Acetone
Concen: 31.715 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

Tgt Ion: 43 Resp: 24175
Ion Ratio Lower Upper
43 100
58 30.3 24.8 37.2

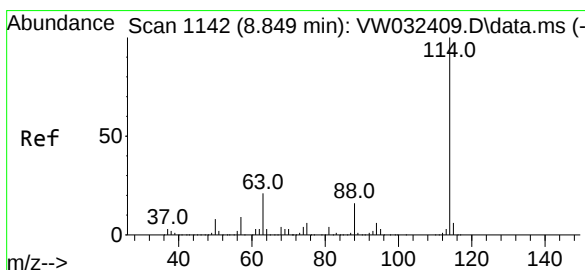
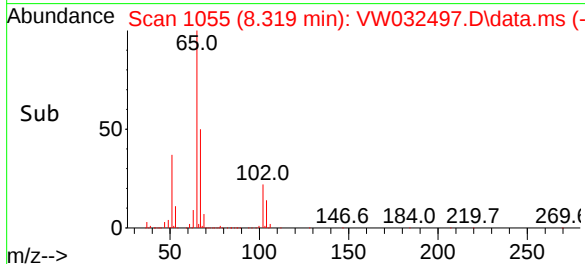
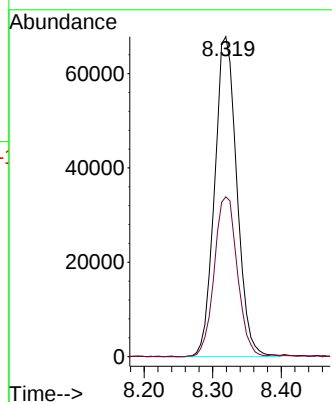
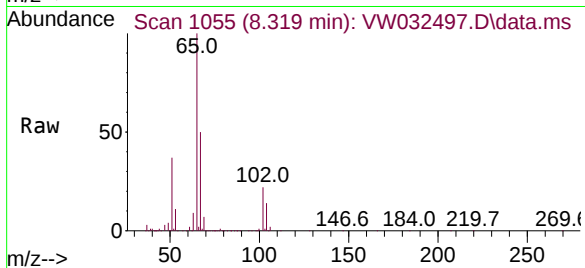




#33
1,2-Dichloroethane-d4
Concen: 60.137 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

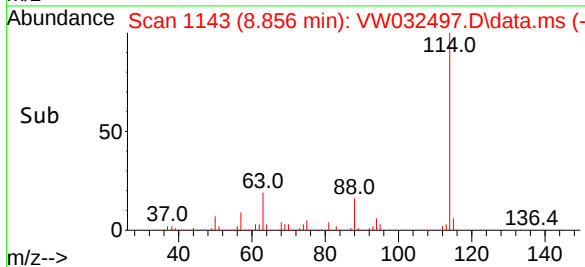
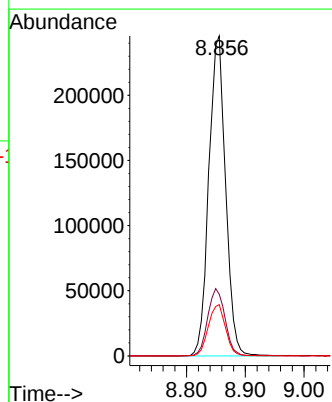
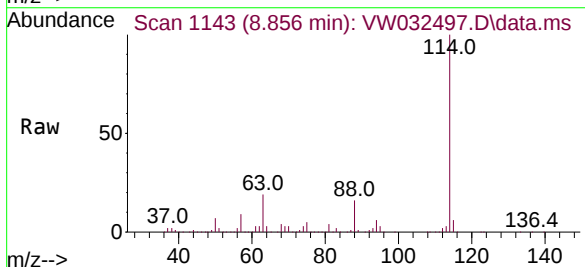
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

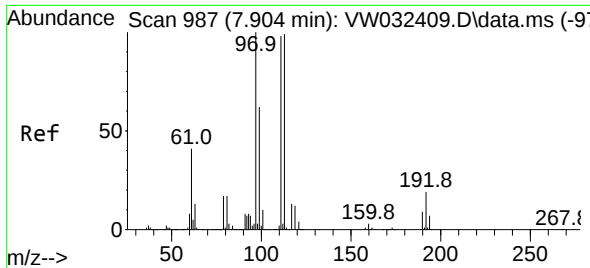
Tgt Ion: 65 Resp: 153222
Ion Ratio Lower Upper
65 100
67 51.8 0.0 106.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.856 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

Tgt Ion: 114 Resp: 485828
Ion Ratio Lower Upper
114 100
63 19.2 0.0 41.8
88 16.0 0.0 32.6

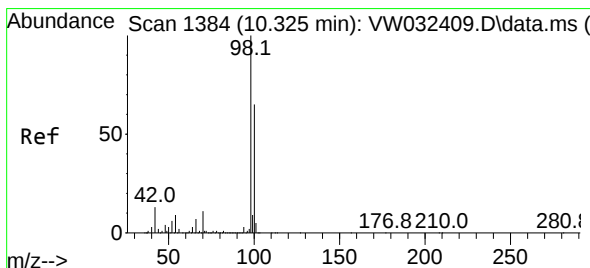
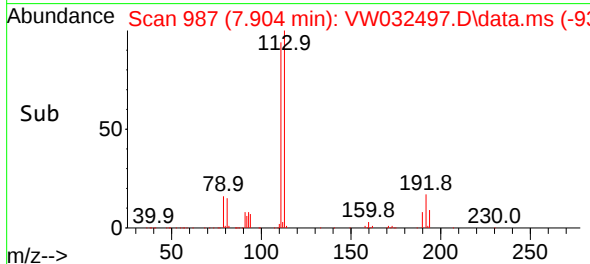
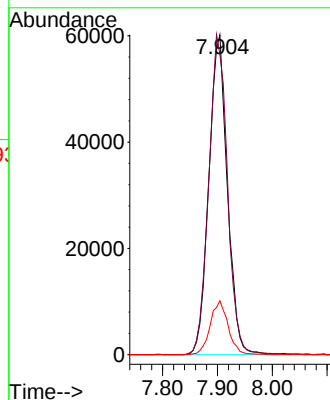
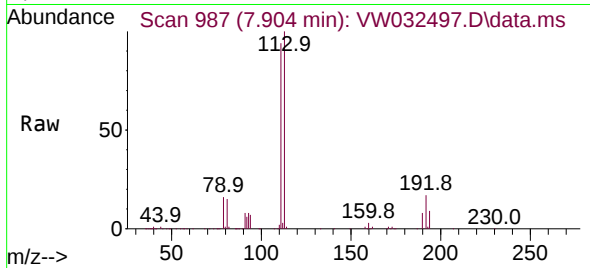




#35
Dibromofluoromethane
Concen: 48.561 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

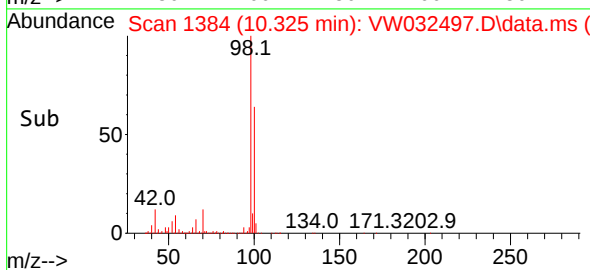
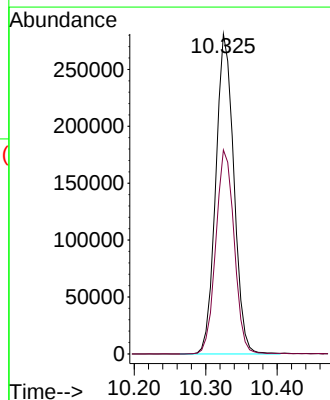
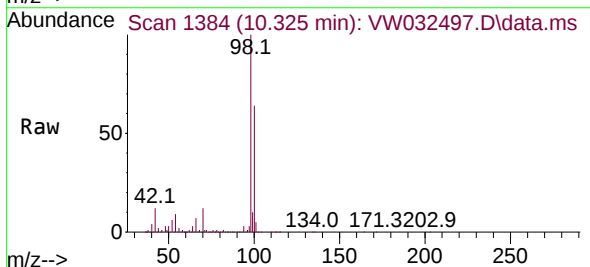
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

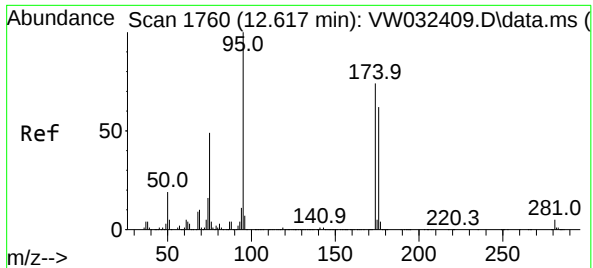
Tgt Ion	113	Resp	141253
Ion Ratio	Lower	Upper	
113	100		
111	101.4	83.1	124.7
192	16.3	13.4	20.2



#50
Toluene-d8
Concen: 44.300 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

Tgt Ion	98	Resp	494342
Ion Ratio	Lower	Upper	
98	100		
100	64.7	53.3	79.9

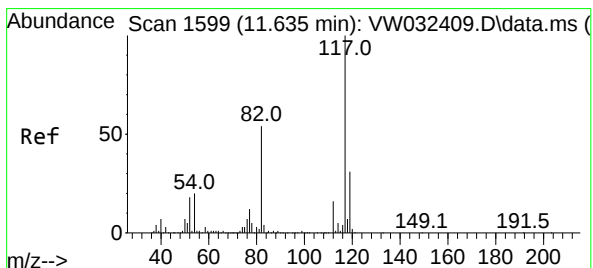
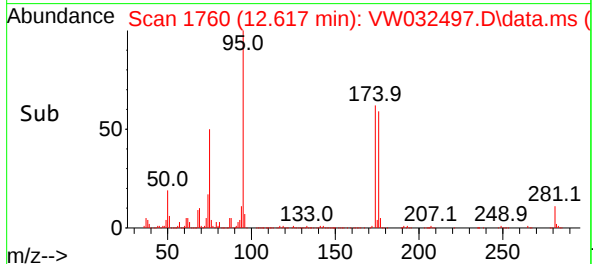
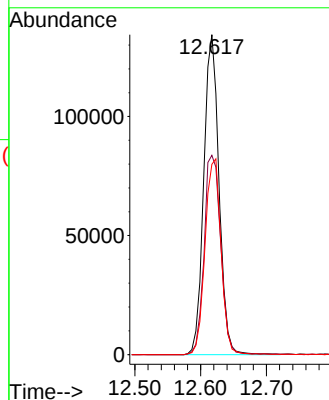
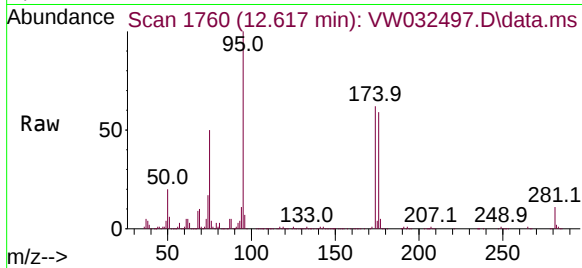




#62
4-Bromofluorobenzene
Concen: 51.364 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

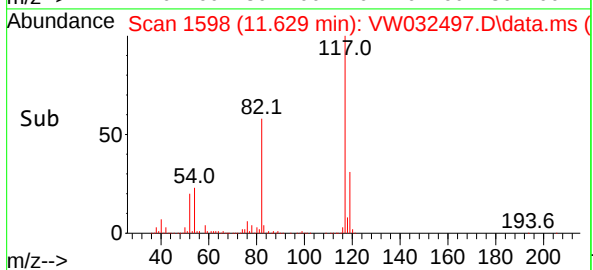
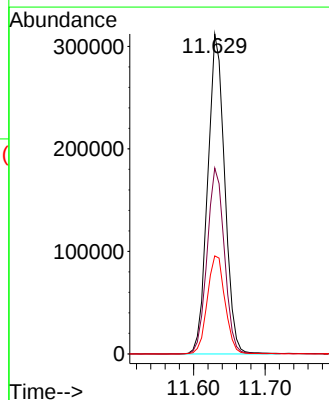
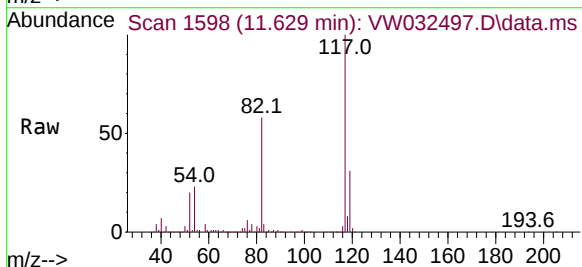
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

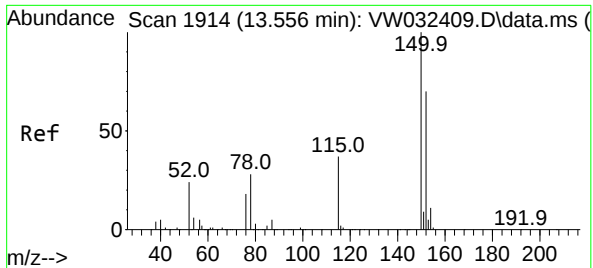
Tgt Ion:	95	Resp:	216521
Ion Ratio	Lower	Upper	
95	100		
174	67.9	0.0	135.4
176	64.3	0.0	131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

Tgt Ion:	117	Resp:	516048
Ion Ratio	Lower	Upper	
117	100		
82	58.1	43.0	64.4
119	30.6	25.0	37.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 19

Delta R.T. 0.000 min

Lab File: VW032497.D

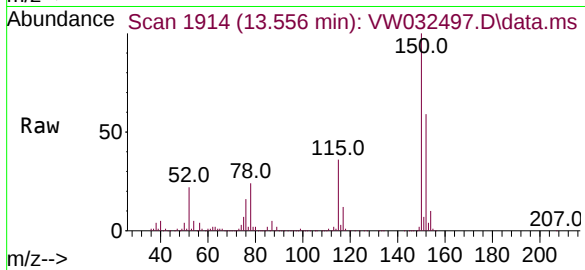
Acq: 19 Nov 2025 13:14

Instrument :

MSVOA_W

ClientSampleId :

DUPE-0.5-1.0-20251114



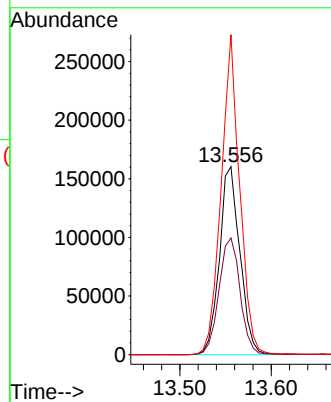
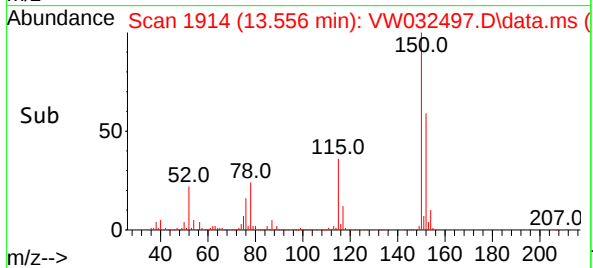
Tgt Ion:152 Resp: 249401

Ion Ratio Lower Upper

152 100

115 64.2 32.8 98.3

150 154.7 0.0 356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032497.D
Acq On : 19 Nov 2025 13:14
Operator : SY/MD
Sample : Q3649-04
Misc : 6.21g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

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_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032497.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	367	373	385	rVB	18330	61797	3.82%	0.714%
2	4.954	492	503	515	rBV3	19015	71225	4.40%	0.823%
3	5.978	663	671	677	rBV6	6372	17179	1.06%	0.199%
4	7.173	859	867	880	rBV3	11943	39710	2.45%	0.459%
5	7.904	975	987	991	rBV	185178	450802	27.87%	5.212%
6	7.959	991	996	1008	rVB2	272879	646310	39.95%	7.472%
7	8.319	1046	1055	1068	rBV	186913	435366	26.91%	5.033%
8	8.849	1133	1142	1159	rBV	567738	1163686	71.94%	13.454%
9	10.325	1375	1384	1393	rBV	741418	1320266	81.62%	15.264%
10	10.855	1466	1471	1483	rVB9	6843	17358	1.07%	0.201%
11	11.629	1590	1598	1607	rBV	958013	1617659	100.00%	18.702%
12	12.617	1746	1760	1770	rBV3	637654	1163711	71.94%	13.454%
13	13.556	1907	1914	1923	rBV	1013904	1567498	96.90%	18.122%
14	14.062	1992	1997	2006	rVB2	35025	59070	3.65%	0.683%
15	14.318	2033	2039	2045	rBV10	7897	17854	1.10%	0.206%

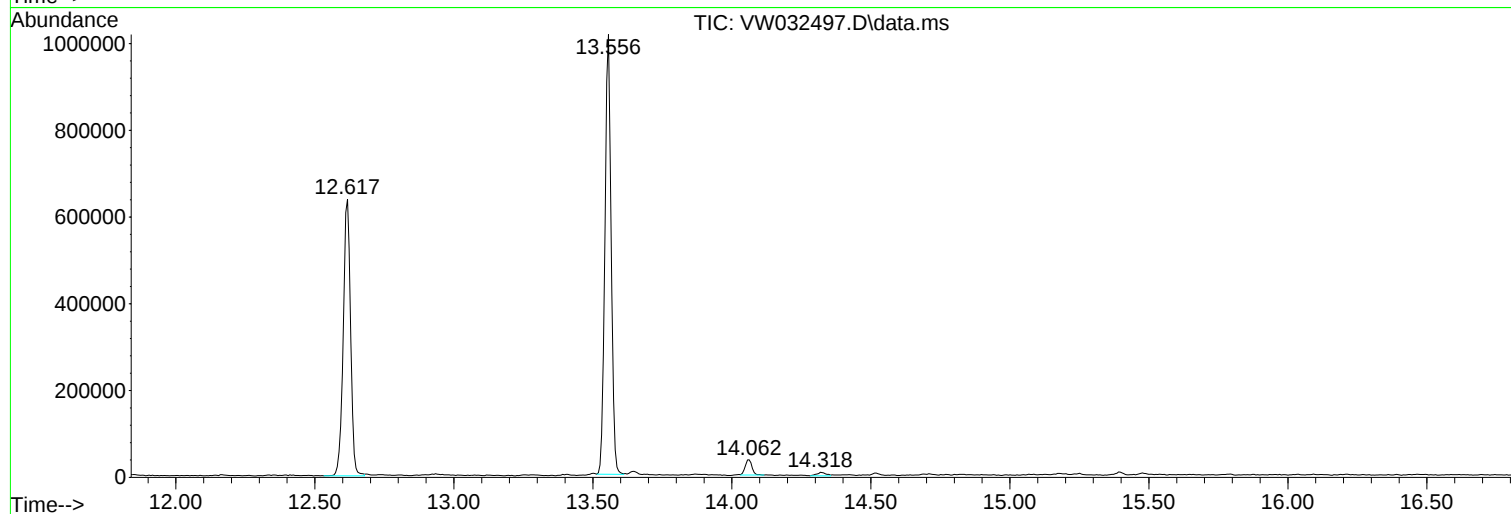
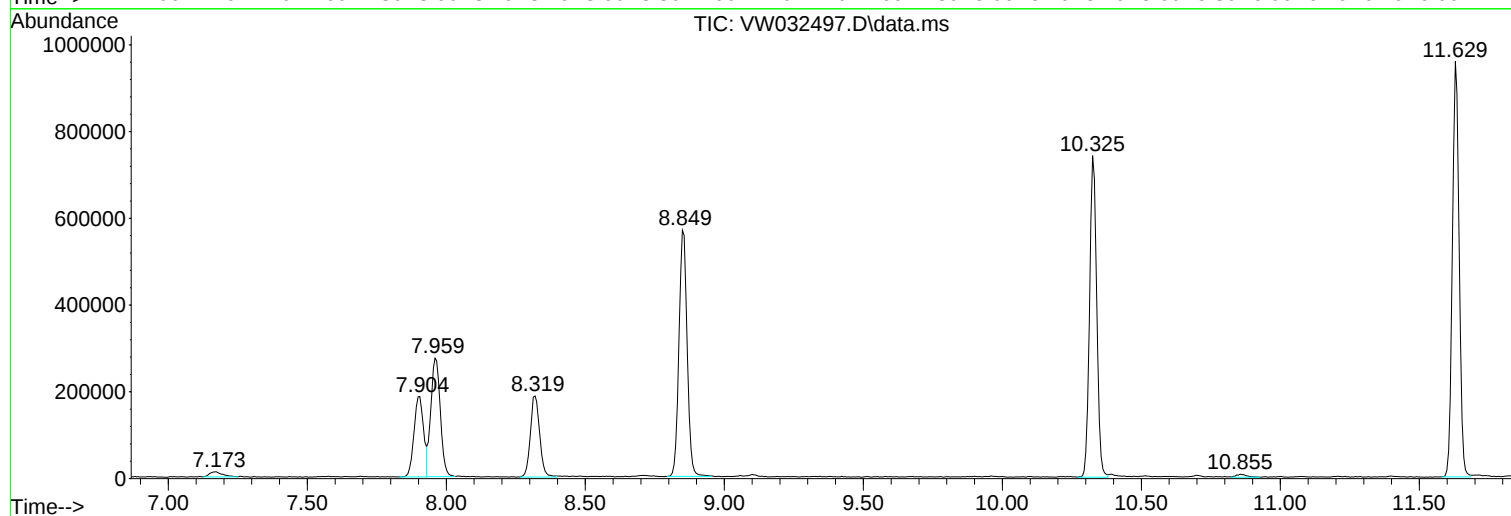
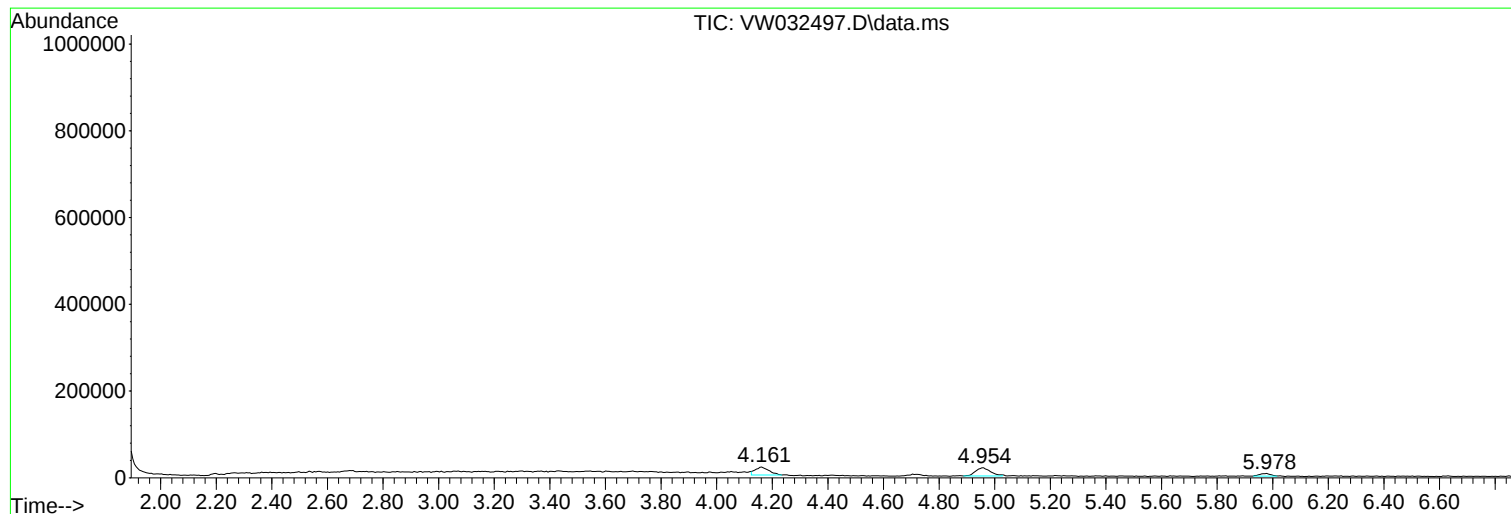
Sum of corrected areas: 8649491

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032497.D
Acq On : 19 Nov 2025 13:14
Operator : SY/MD
Sample : Q3649-04
Misc : 6.21g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032497.D
Acq On : 19 Nov 2025 13:14
Operator : SY/MD
Sample : Q3649-04
Misc : 6.21g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111925\
Data File : VW032497.D
Acq On : 19 Nov 2025 13:14
Operator : SY/MD
Sample : Q3649-04
Misc : 6.21g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032483.D
 Acq On : 18 Nov 2025 15:52
 Operator : SY/MD
 Sample : Q3649-05
 Misc : 5.39g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B4-0.05-1.0-20251114

Quant Time: Nov 19 00:29:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	232615	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	543396	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	601253	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	284001	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	177301	59.121	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	118.240%
35) Dibromofluoromethane	7.904	113	162454	49.933	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	99.860%
50) Toluene-d8	10.325	98	571784	45.811	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	91.620%
62) 4-Bromofluorobenzene	12.617	95	266833	56.593	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	113.180%

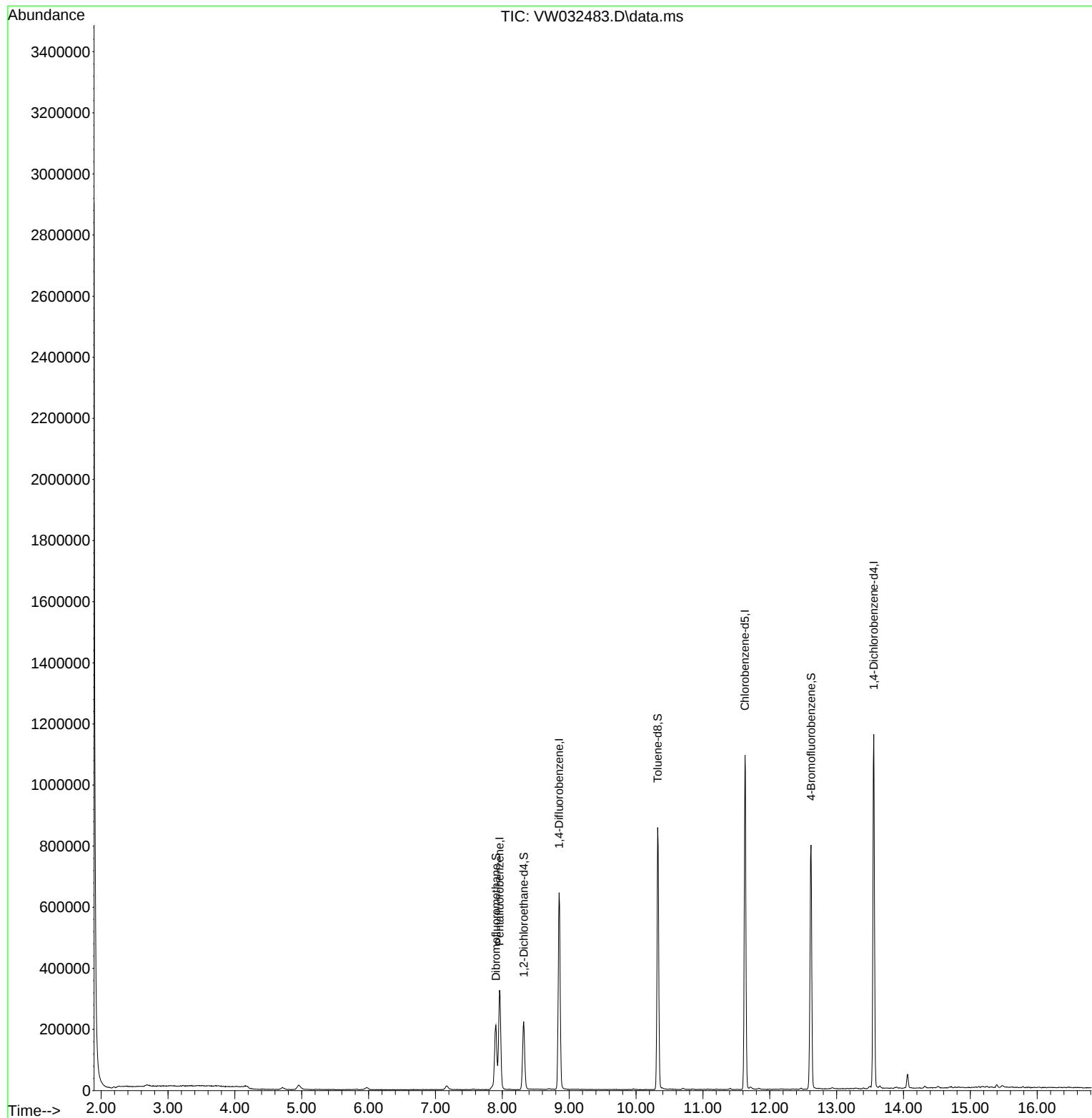
Target Compounds Qvalue

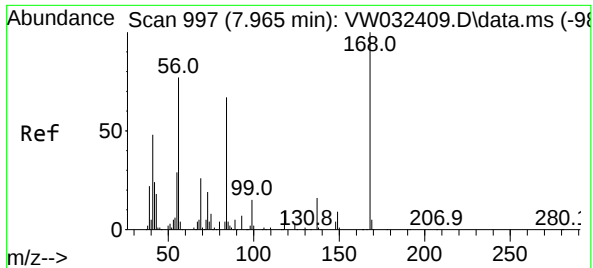
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032483.D
Acq On : 18 Nov 2025 15:52
Operator : SY/MD
Sample : Q3649-05
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

Quant Time: Nov 19 00:29:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

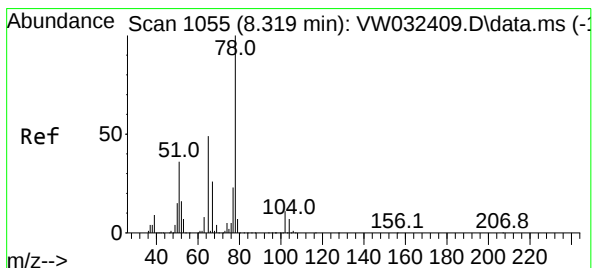
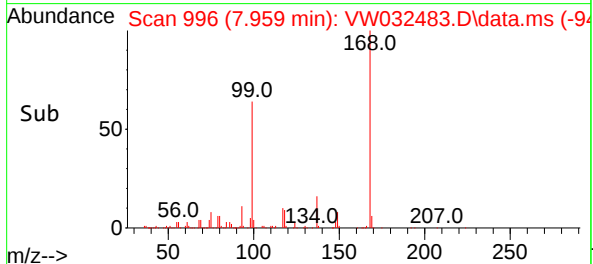
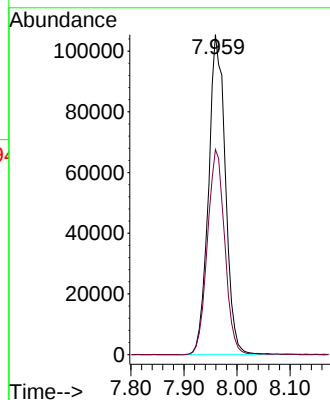
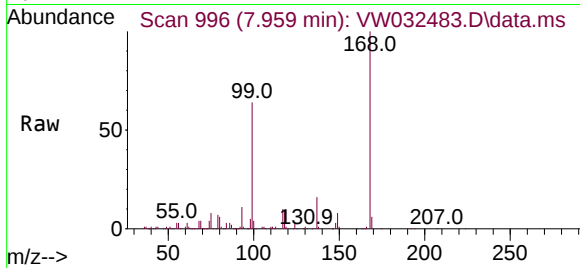




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

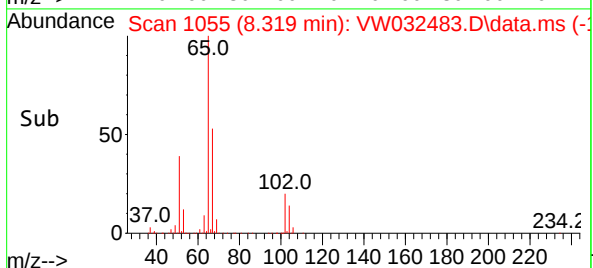
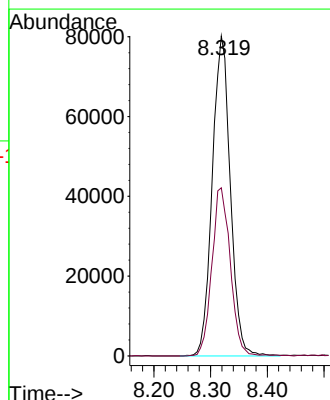
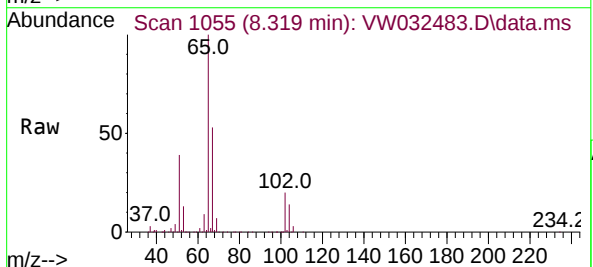
Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

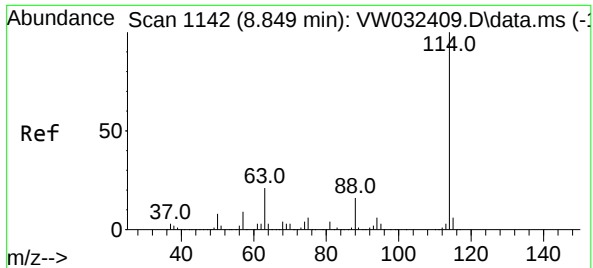
Tgt Ion:168 Resp: 232615
Ion Ratio Lower Upper
168 100
99 64.1 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 59.121 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

Tgt Ion: 65 Resp: 177301
Ion Ratio Lower Upper
65 100
67 53.6 0.0 106.8

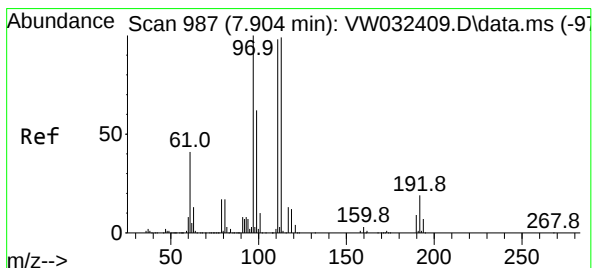
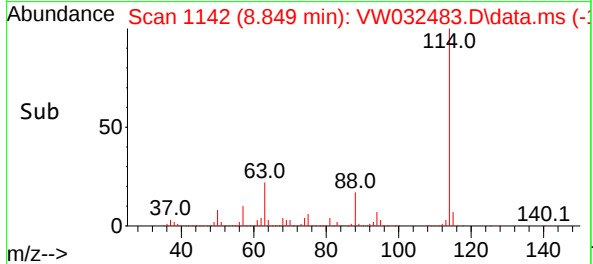
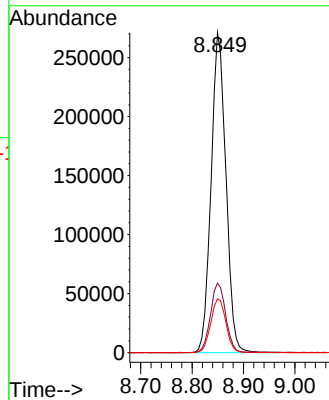
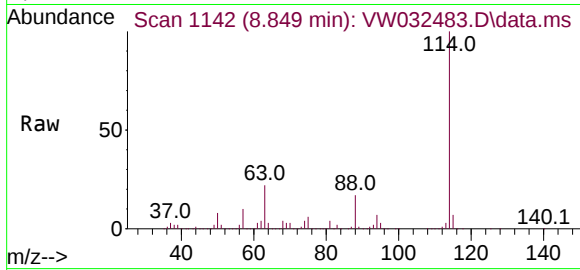




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

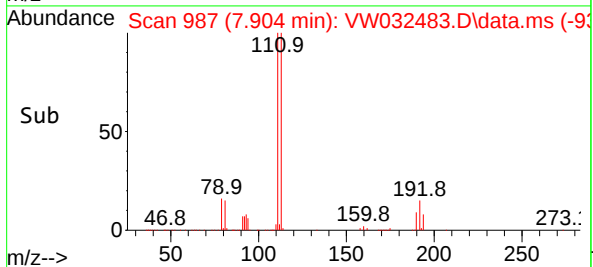
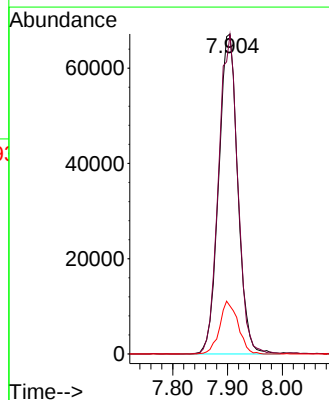
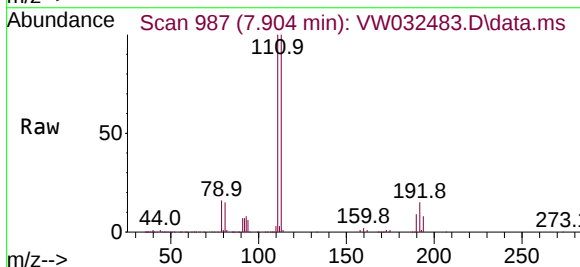
Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

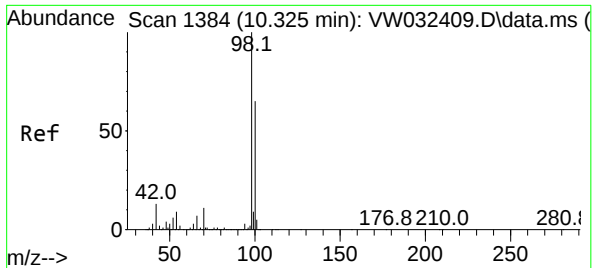
Tgt Ion:	114	Resp:	543396
Ion Ratio	Lower	Upper	
114	100		
63	21.6	0.0	41.8
88	16.8	0.0	32.6



#35
Dibromofluoromethane
Concen: 49.933 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

Tgt Ion:	113	Resp:	162454
Ion Ratio	Lower	Upper	
113	100		
111	100.4	83.1	124.7
192	15.8	13.4	20.2

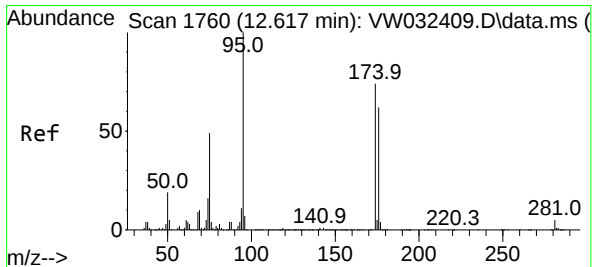
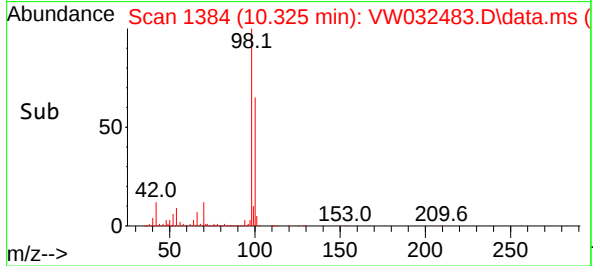
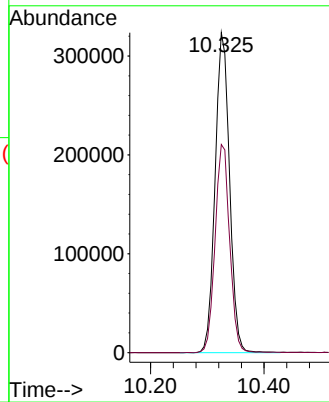
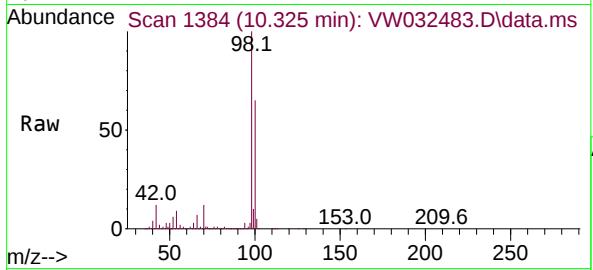




#50
Toluene-d8
Concen: 45.811 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

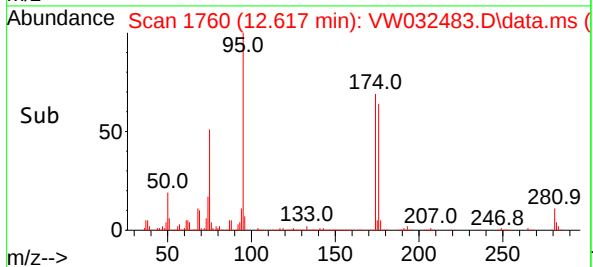
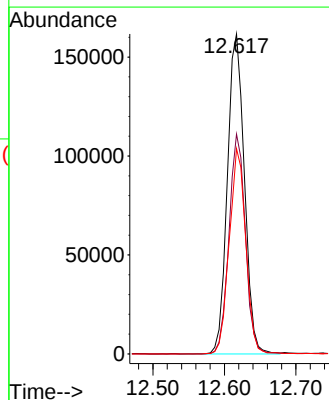
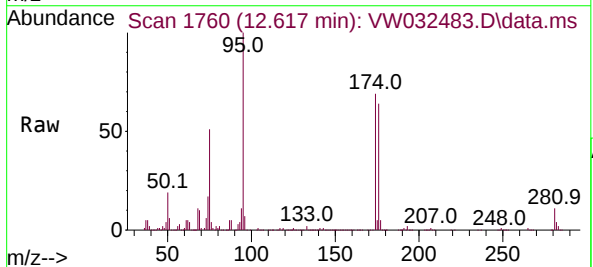
Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

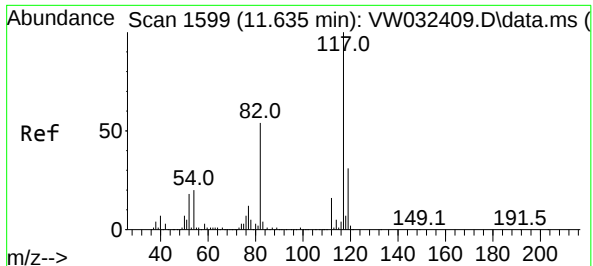
Tgt Ion: 98 Resp: 571784
Ion Ratio Lower Upper
98 100
100 65.6 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 56.593 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

Tgt Ion: 95 Resp: 266833
Ion Ratio Lower Upper
95 100
174 66.3 0.0 135.4
176 62.4 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW032483.D

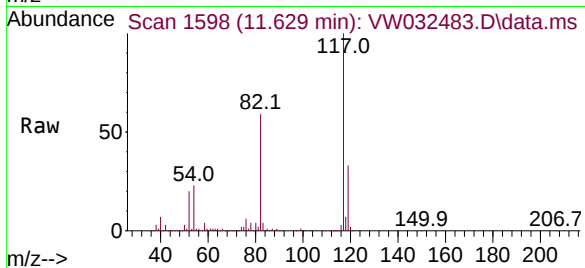
Acq: 18 Nov 2025 15:52

Instrument :

MSVOA_W

ClientSampleId :

B4-0.05-1.0-20251114



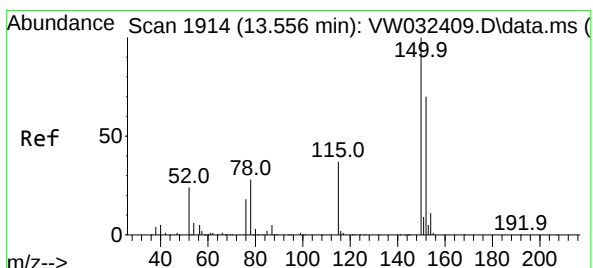
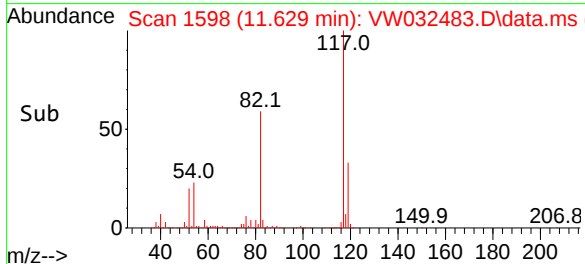
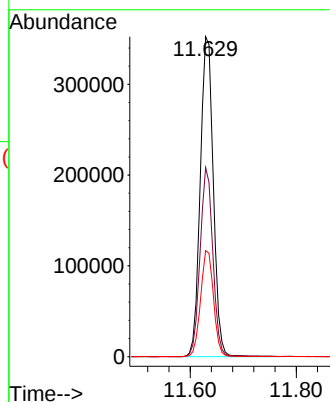
Tgt Ion:117 Resp: 601253

Ion Ratio Lower Upper

117 100

82 59.1 43.0 64.4

119 33.1 25.0 37.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032483.D

Acq: 18 Nov 2025 15:52

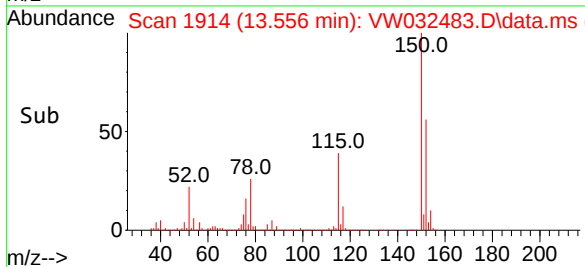
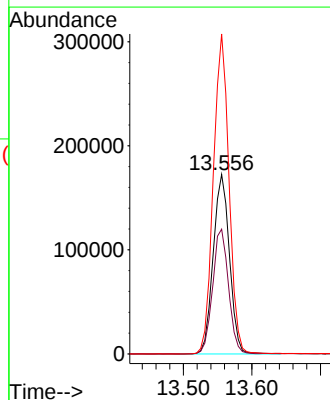
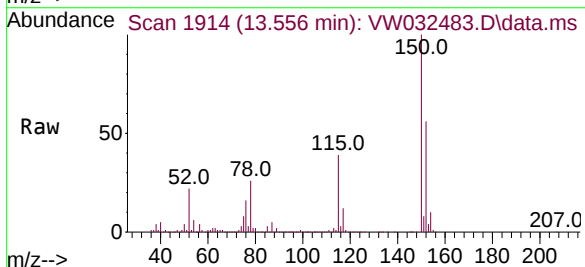
Tgt Ion:152 Resp: 284001

Ion Ratio Lower Upper

152 100

115 67.9 32.8 98.3

150 171.5 0.0 356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032483.D
 Acq On : 18 Nov 2025 15:52
 Operator : SY/MD
 Sample : Q3649-05
 Misc : 5.39g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B4-0.05-1.0-20251114

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_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032483.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	491	503	517	rBV3	14512	55333	2.96%	0.555%
2	7.173	854	867	874	rBV2	12163	39246	2.10%	0.394%
3	7.904	968	987	991	rBV	210836	539814	28.86%	5.419%
4	7.959	991	996	1008	rVB	324125	736360	39.36%	7.392%
5	8.319	1043	1055	1067	rBV	222737	502710	26.87%	5.046%
6	8.849	1133	1142	1156	rBV	643543	1307503	69.89%	13.125%
7	10.325	1376	1384	1393	rBV	857749	1519635	81.23%	15.255%
8	11.629	1590	1598	1608	rBV	1094628	1857881	99.31%	18.650%
9	12.617	1749	1760	1775	rBV2	799001	1460945	78.09%	14.665%
10	13.556	1907	1914	1924	rVB	1155355	1870761	100.00%	18.779%
11	14.062	1991	1997	2003	rBV	43367	71648	3.83%	0.719%

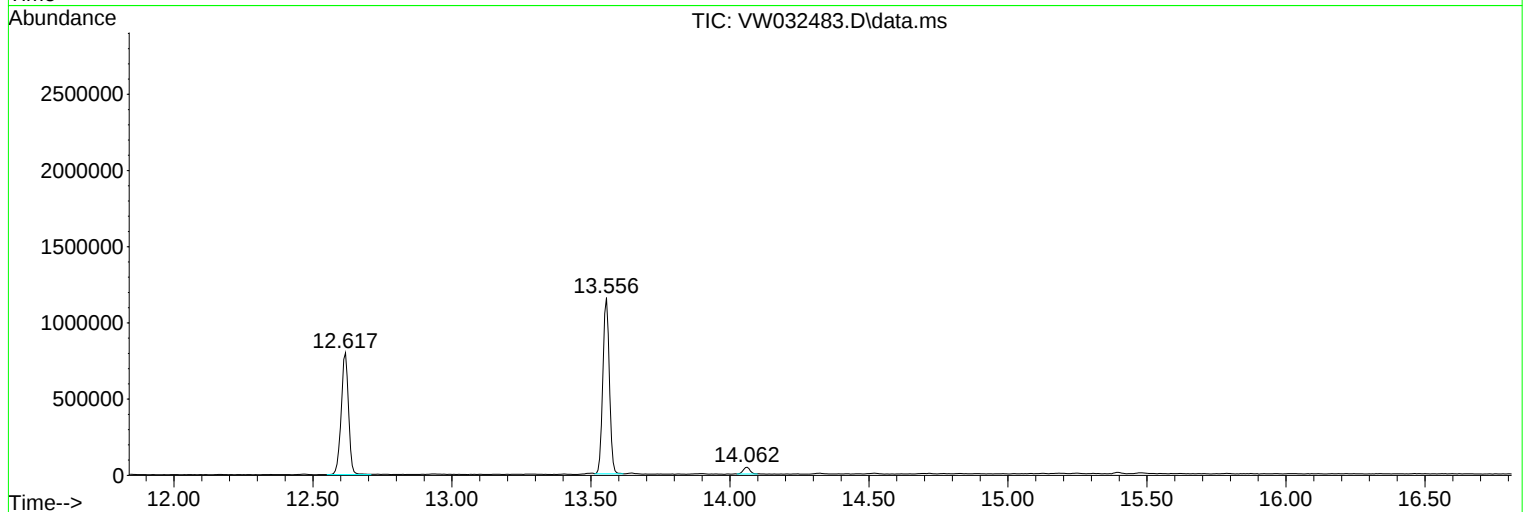
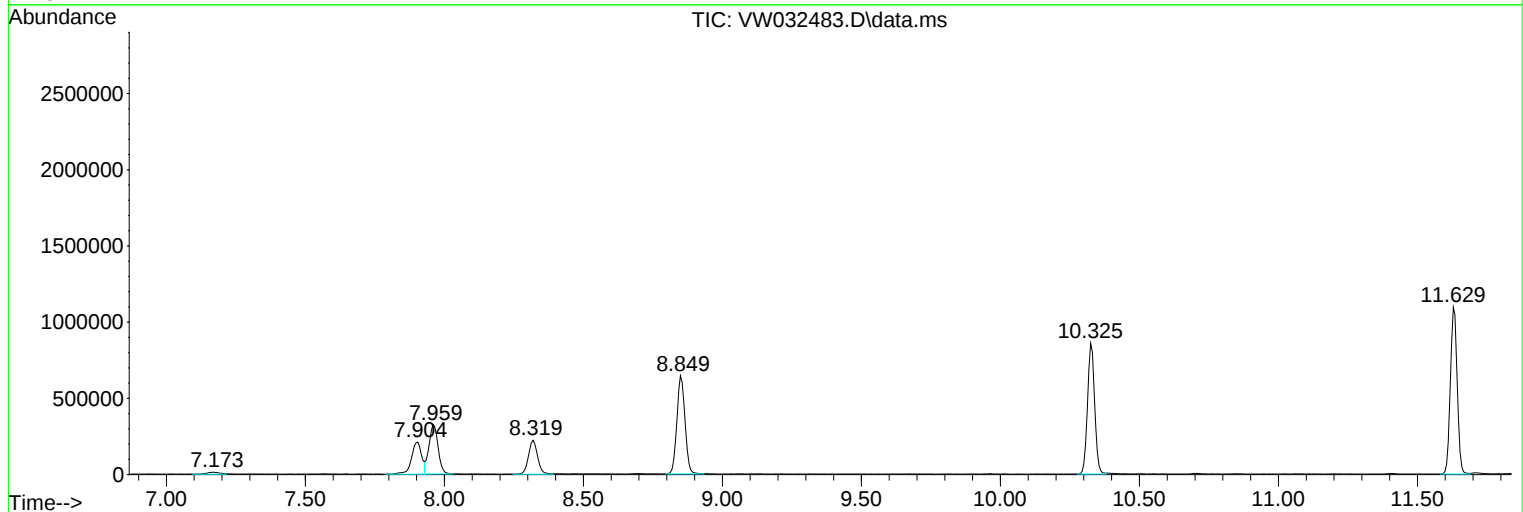
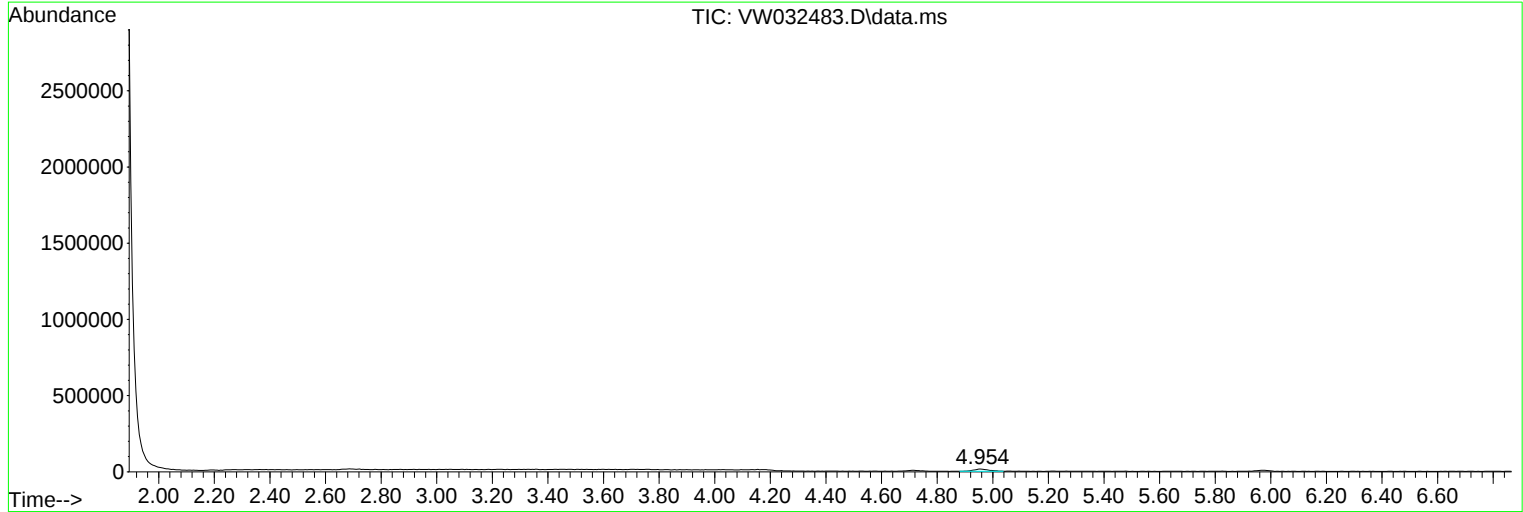
Sum of corrected areas: 9961836

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032483.D
Acq On : 18 Nov 2025 15:52
Operator : SY/MD
Sample : Q3649-05
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032483.D
Acq On : 18 Nov 2025 15:52
Operator : SY/MD
Sample : Q3649-05
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032483.D
Acq On : 18 Nov 2025 15:52
Operator : SY/MD
Sample : Q3649-05
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

Quant Time: Nov 19 00:29:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	212864	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	490545	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	510548	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	271829	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	161220	58.747	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	117.500%
35) Dibromofluoromethane	7.898	113	140948	47.990	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	95.980%
50) Toluene-d8	10.325	98	491285	43.603	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	87.200%
62) 4-Bromofluorobenzene	12.617	95	234272	55.040	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	110.080%

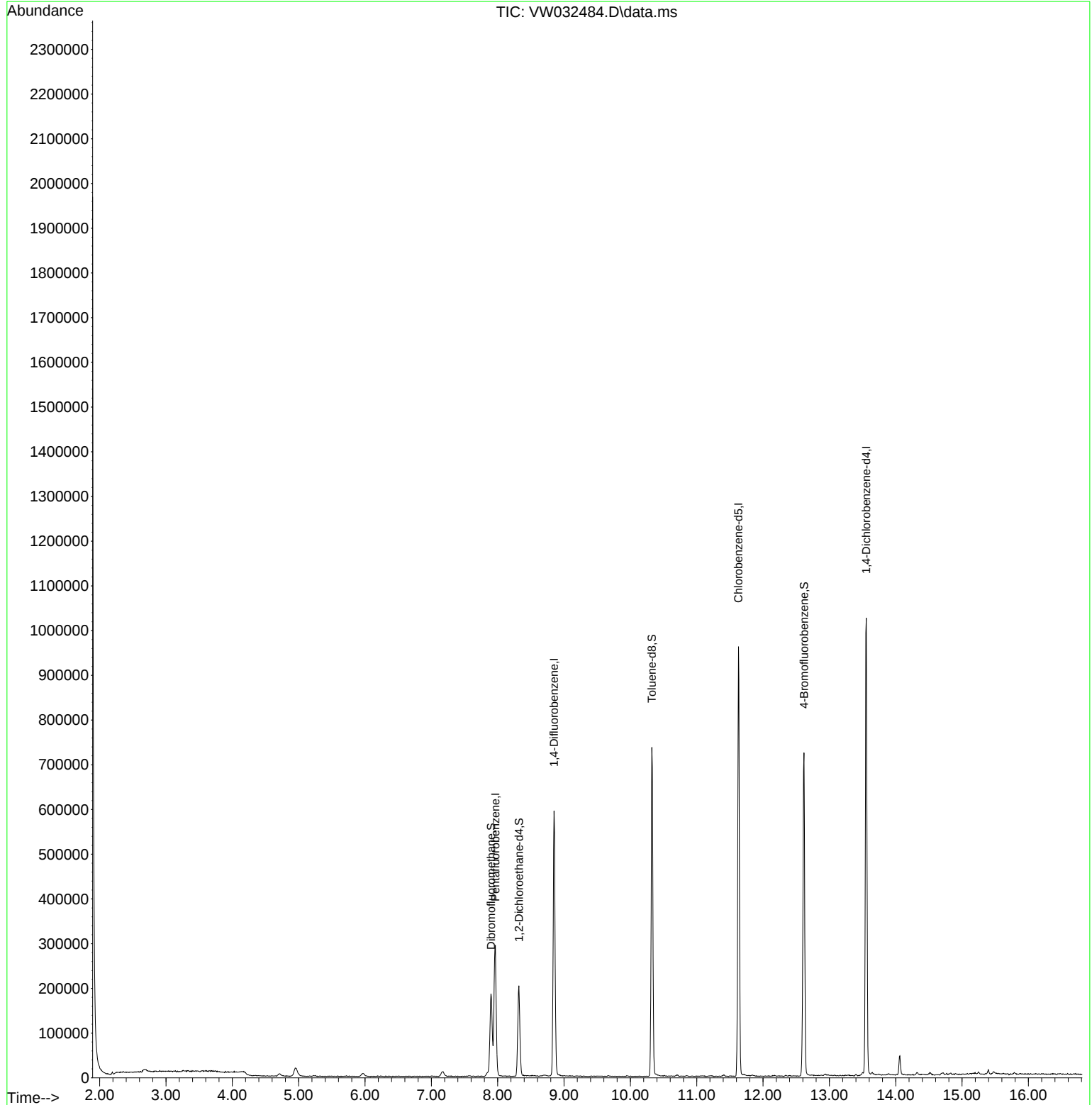
Target Compounds	Qvalue

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

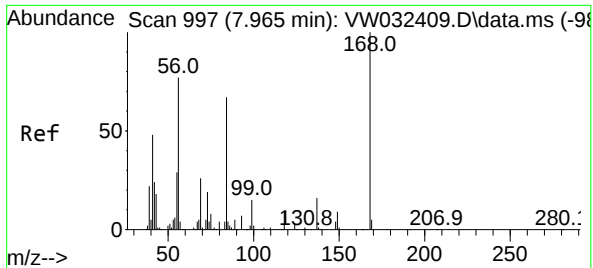
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

Quant Time: Nov 19 00:29:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



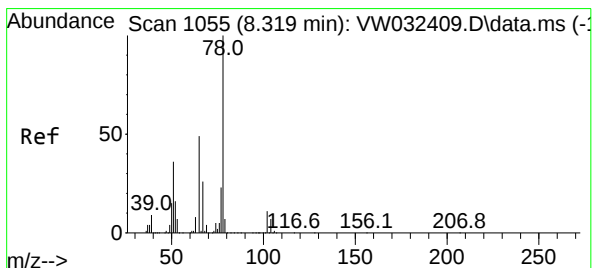
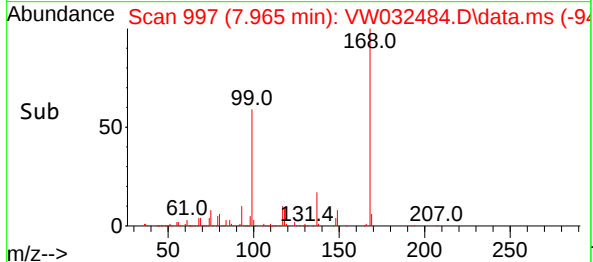
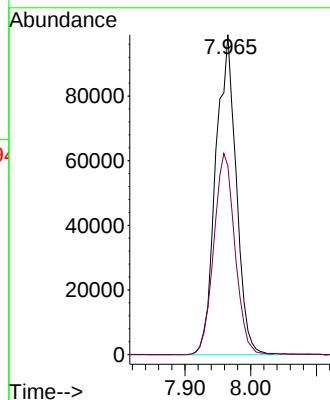
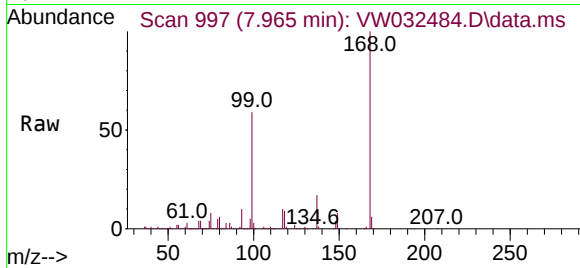
A
B
C
D
E
F
G
H
I
J



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

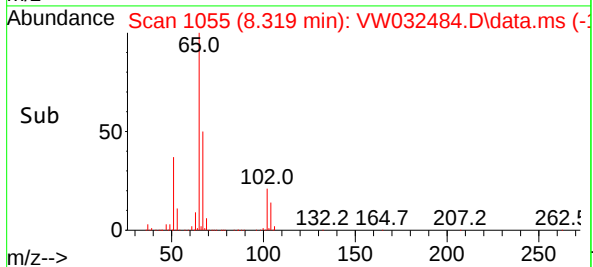
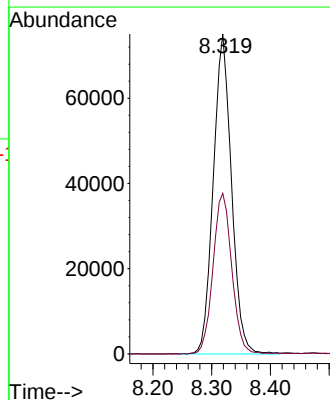
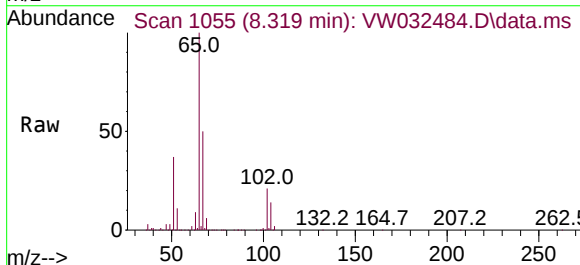
Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

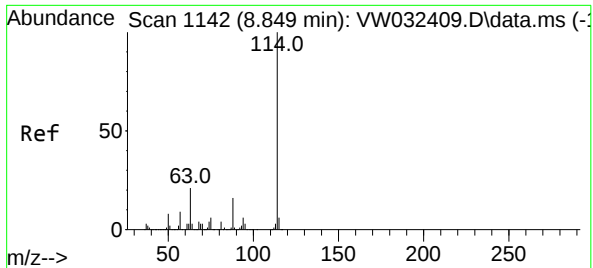
Tgt Ion:168 Resp: 212864
Ion Ratio Lower Upper
168 100
99 58.9 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 58.747 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

Tgt Ion: 65 Resp: 161220
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.8

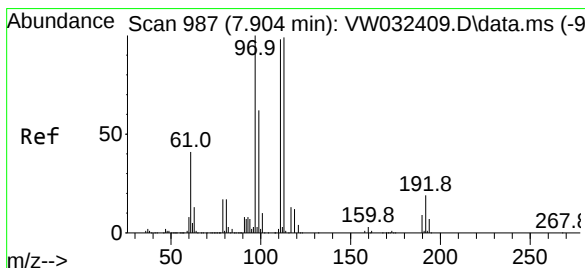
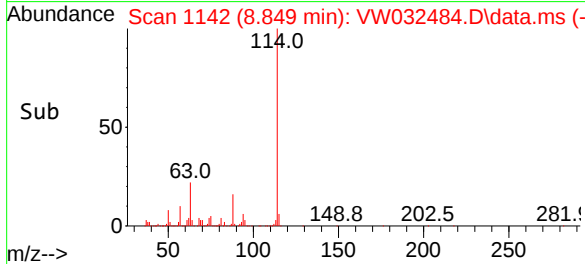
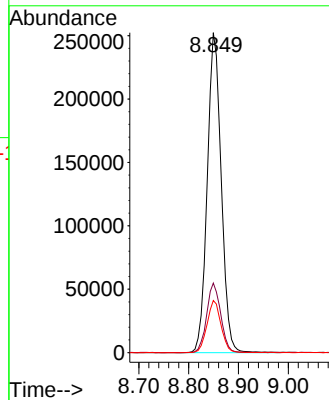
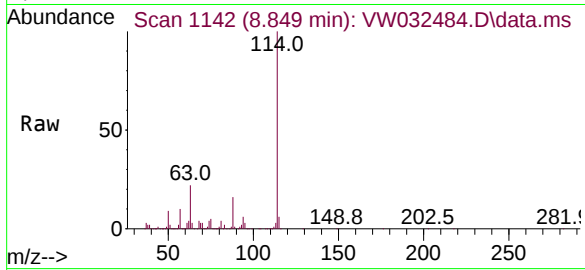




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

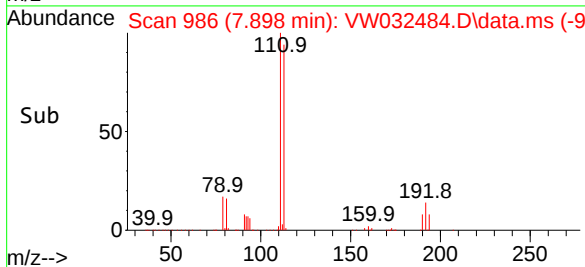
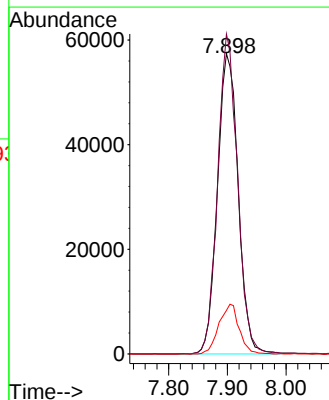
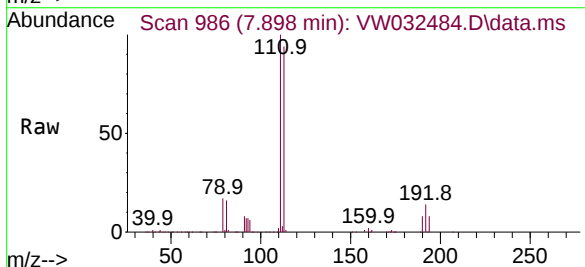
Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

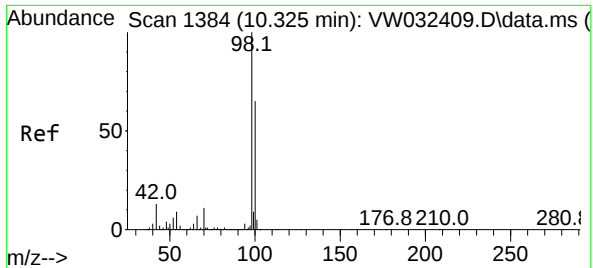
Tgt Ion:	114	Resp:	490545
Ion Ratio	Lower	Upper	
114	100		
63	21.7	0.0	41.8
88	16.3	0.0	32.6



#35
Dibromofluoromethane
Concen: 47.990 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

Tgt Ion:	113	Resp:	140948
Ion Ratio	Lower	Upper	
113	100		
111	102.2	83.1	124.7
192	16.1	13.4	20.2

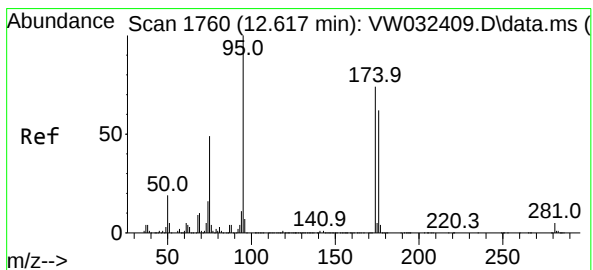
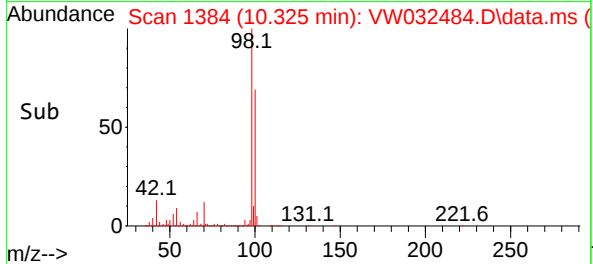
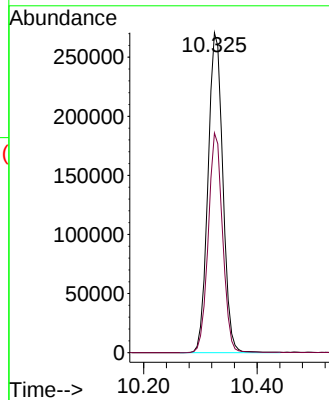
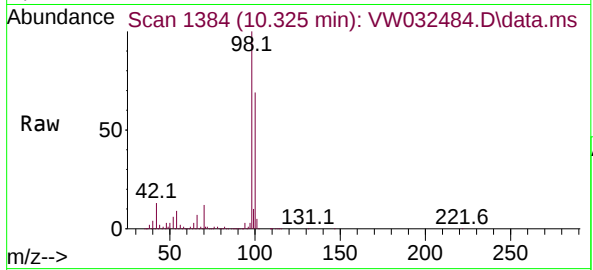




#50
Toluene-d8
Concen: 43.603 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

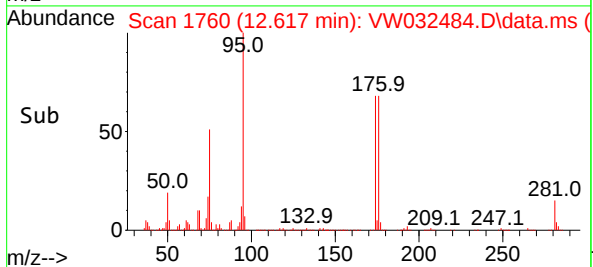
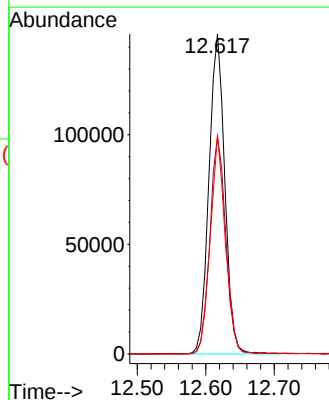
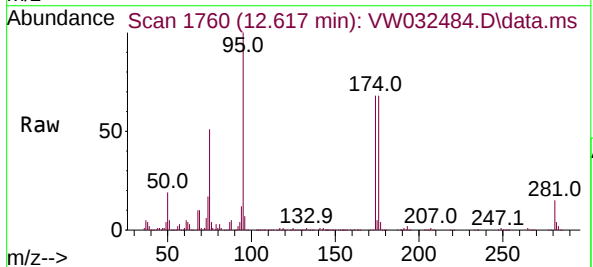
Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

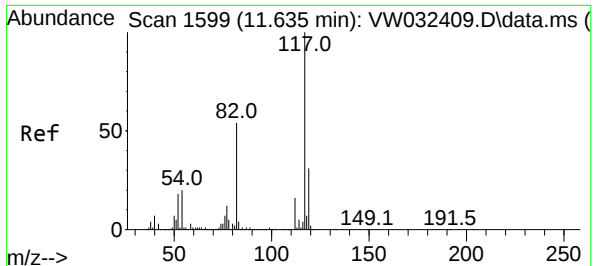
Tgt Ion: 98 Resp: 491285
Ion Ratio Lower Upper
98 100
100 66.4 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 55.040 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

Tgt Ion: 95 Resp: 234272
Ion Ratio Lower Upper
95 100
174 68.0 0.0 135.4
176 65.3 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW032484.D

Acq: 18 Nov 2025 16:14

Instrument :

MSVOA_W

ClientSampleId :

B3-0.5-1.0-20251114

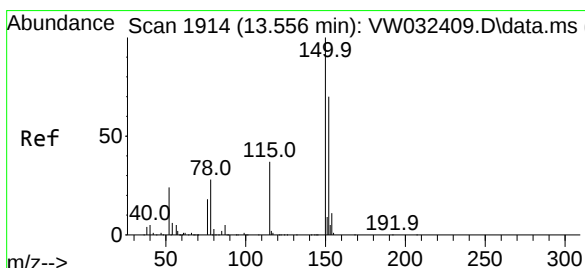
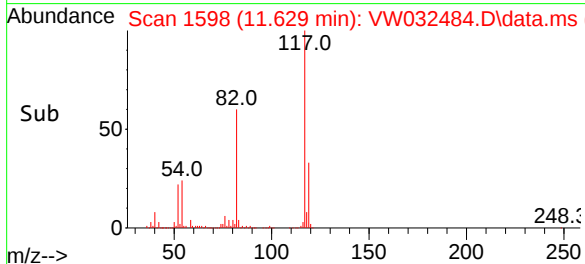
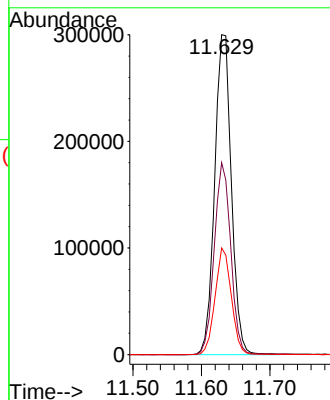
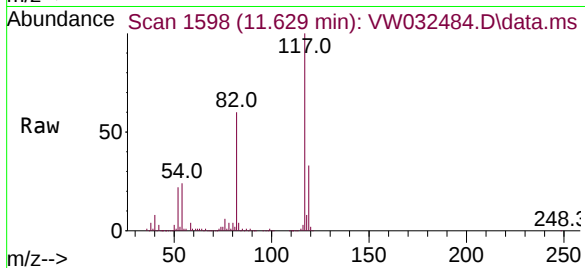
Tgt Ion:117 Resp: 510548

Ion Ratio Lower Upper

117 100

82 60.0 43.0 64.4

119 33.3 25.0 37.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032484.D

Acq: 18 Nov 2025 16:14

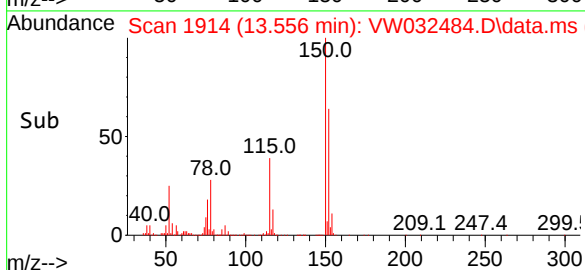
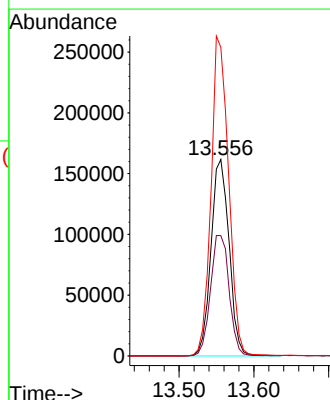
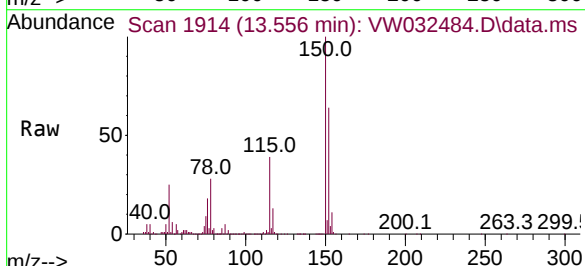
Tgt Ion:152 Resp: 271829

Ion Ratio Lower Upper

152 100

115 63.2 32.8 98.3

150 158.0 0.0 356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

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_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032484.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	493	503	515	rBV4	17587	64055	3.79%	0.721%
2	5.960	659	668	676	rBV6	6641	23269	1.38%	0.262%
3	7.173	857	867	877	rBV	11143	38946	2.30%	0.438%
4	7.898	970	986	991	rBV2	184422	468704	27.72%	5.276%
5	7.965	991	997	1008	rVB2	291982	669504	39.59%	7.536%
6	8.319	1046	1055	1066	rBV	202399	446388	26.40%	5.025%
7	8.849	1132	1142	1152	rBV	592591	1163089	68.78%	13.092%
8	10.325	1376	1384	1393	rBV	735668	1316316	77.84%	14.817%
9	11.629	1589	1598	1608	rBV	961285	1610457	95.23%	18.128%
10	12.617	1747	1760	1770	rBV2	723493	1322741	78.22%	14.889%
11	13.556	1907	1914	1925	rVB	1019720	1691073	100.00%	19.035%
12	14.062	1991	1997	2002	rBV2	41948	69410	4.10%	0.781%

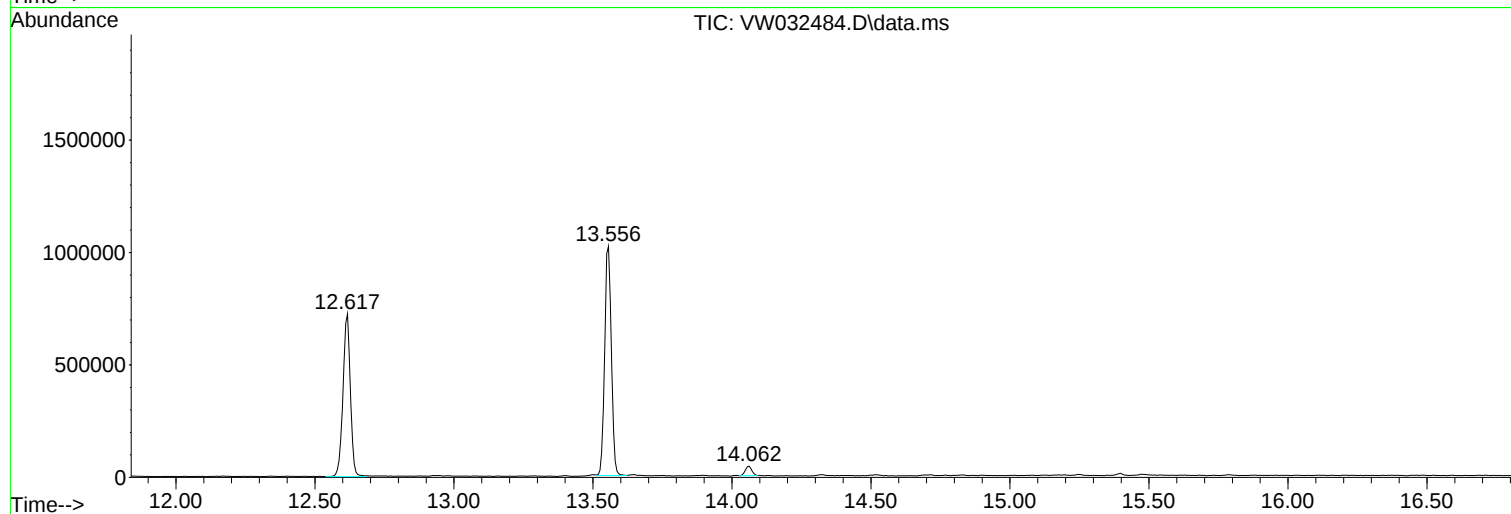
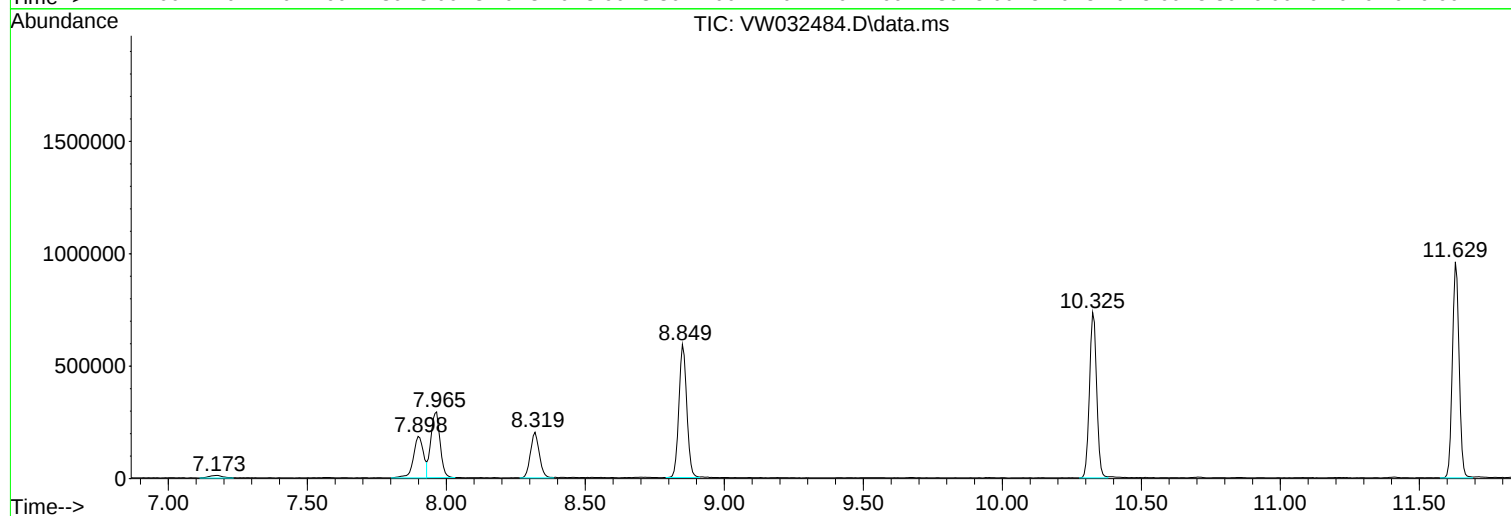
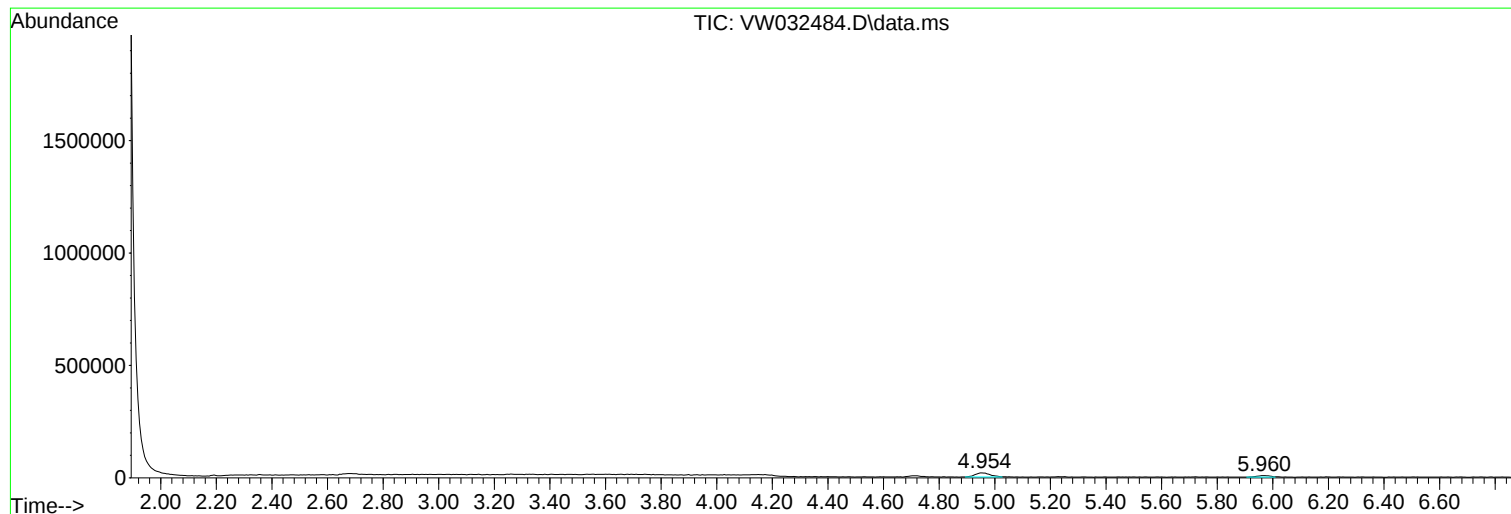
Sum of corrected areas: 8883952

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032469.D
 Acq On : 18 Nov 2025 10:13
 Operator : SY/MD
 Sample : VW1118SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBL01

Quant Time: Nov 19 00:24:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	212726	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	511741	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	533709	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	261053	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	177417	64.691	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	129.380%
35) Dibromofluoromethane	7.898	113	160106	52.255	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	104.520%
50) Toluene-d8	10.325	98	557281	47.411	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	94.820%
62) 4-Bromofluorobenzene	12.617	95	231076	52.041	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	104.080%

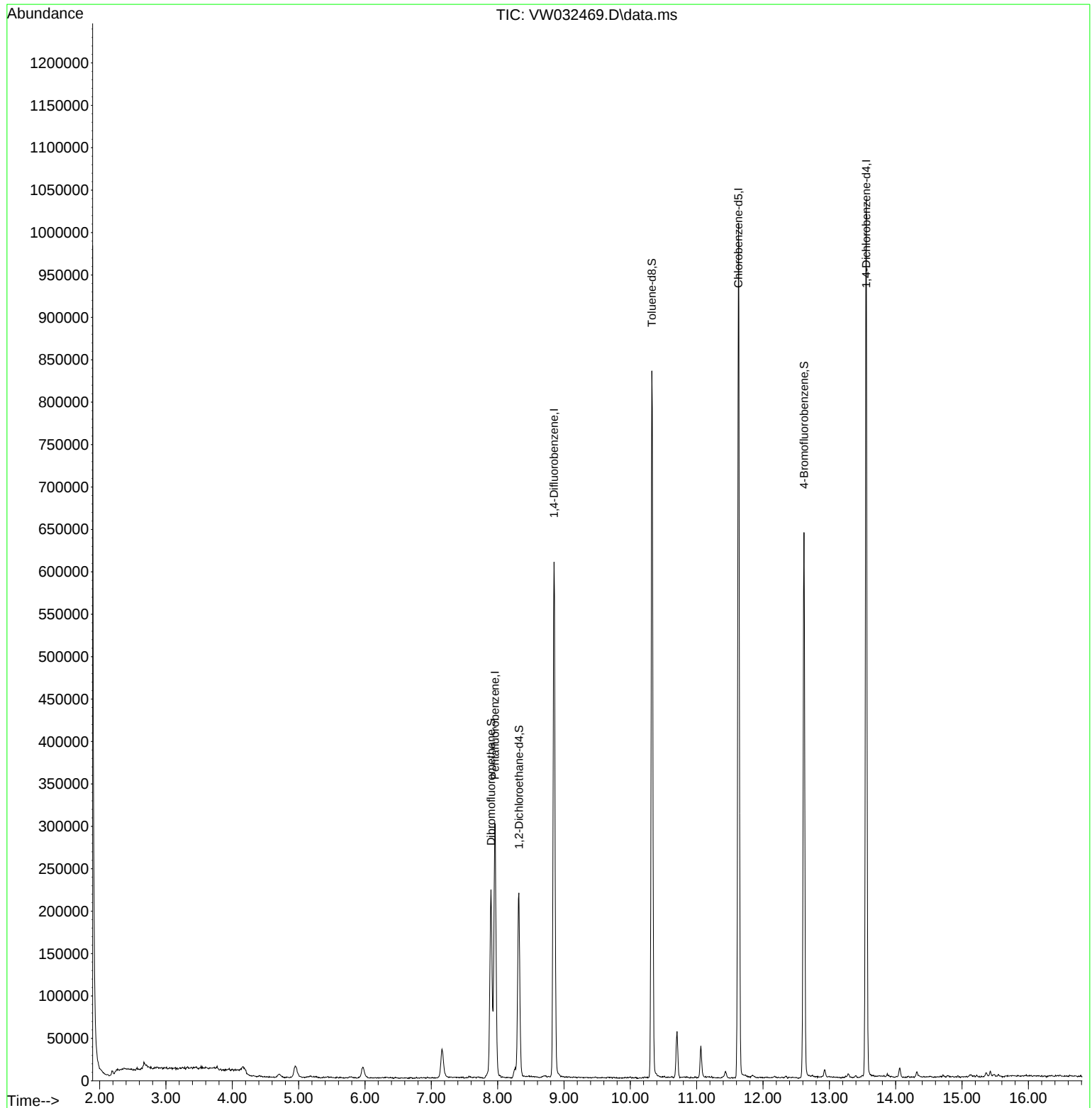
Target Compounds	Qvalue

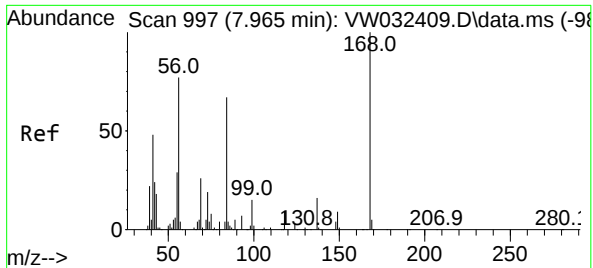
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

Quant Time: Nov 19 00:24:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

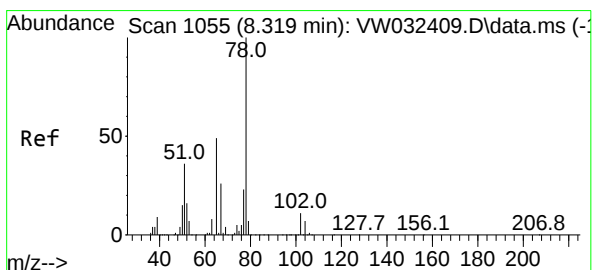
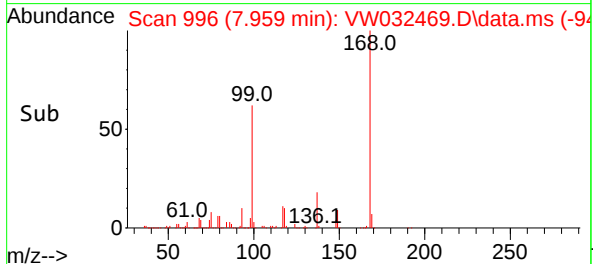
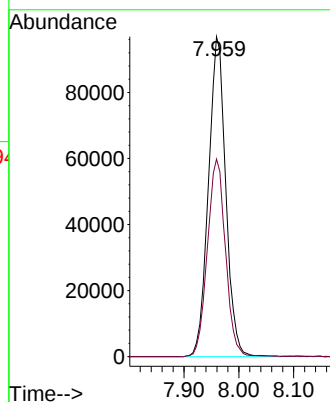
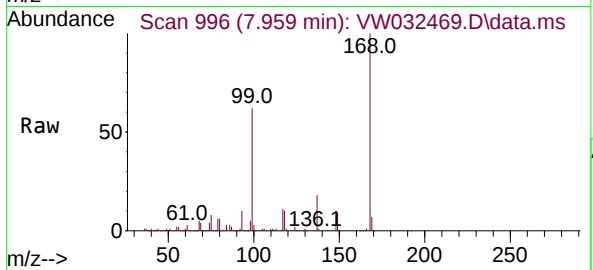




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

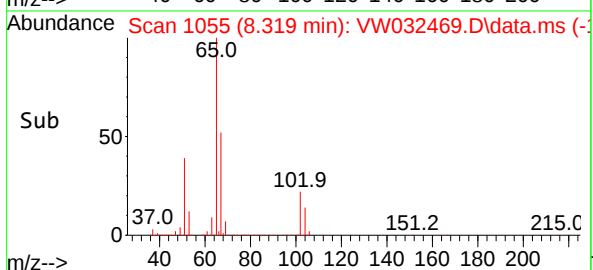
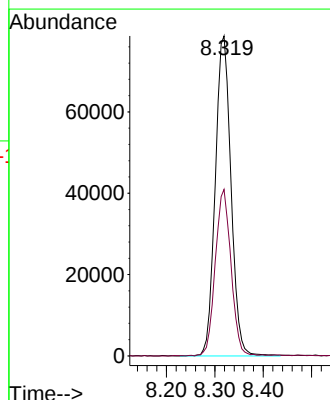
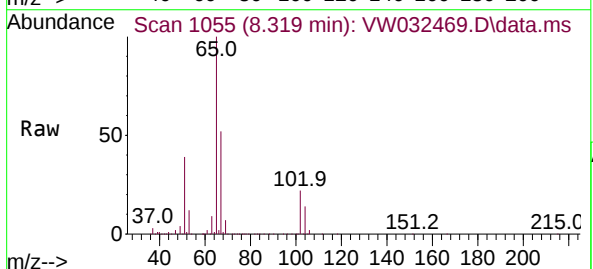
Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

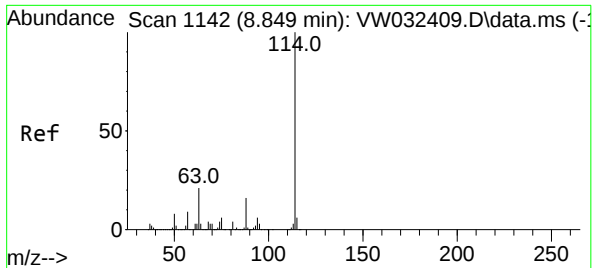
Tgt Ion:168 Resp: 212726
Ion Ratio Lower Upper
168 100
99 61.7 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 64.691 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion: 65 Resp: 177417
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VW032469.D

Acq: 18 Nov 2025 10:13

Instrument :

MSVOA_W

ClientSampleId :

VW1118SBL01

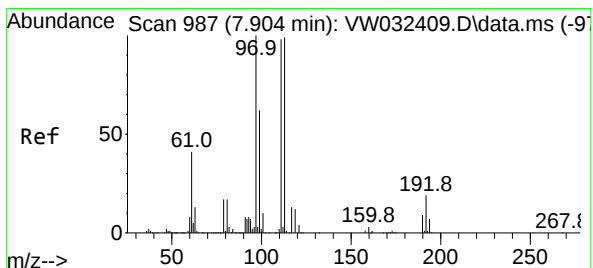
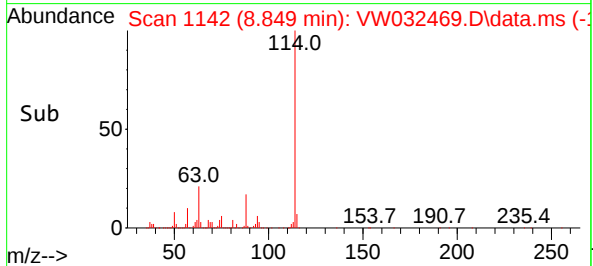
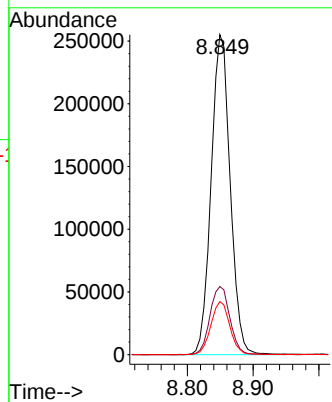
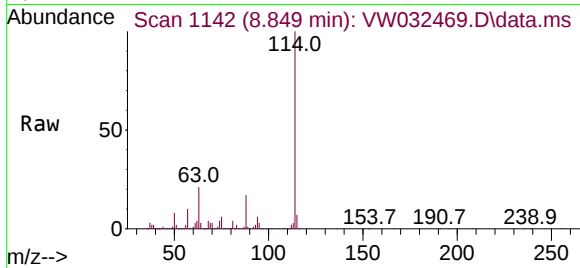
Tgt Ion:114 Resp: 511741

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.8

88 16.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.255 ug/l

RT: 7.898 min Scan# 986

Delta R.T. -0.006 min

Lab File: VW032469.D

Acq: 18 Nov 2025 10:13

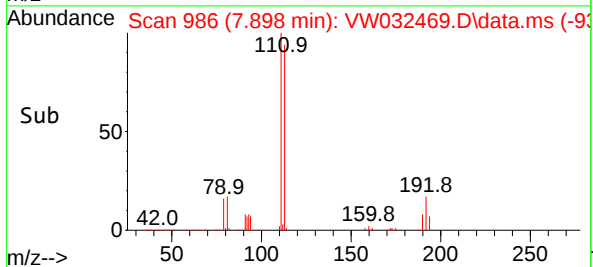
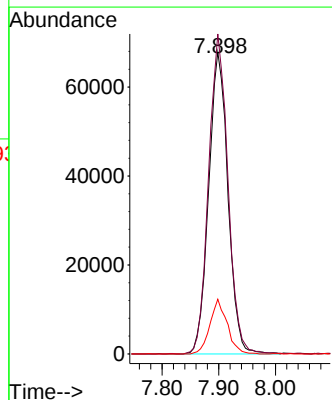
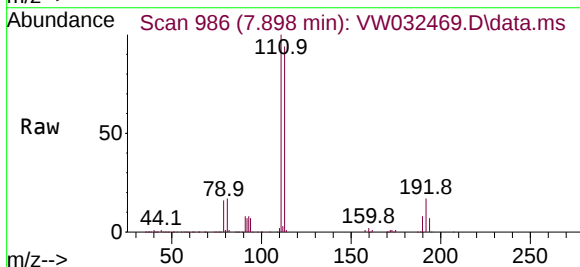
Tgt Ion:113 Resp: 160106

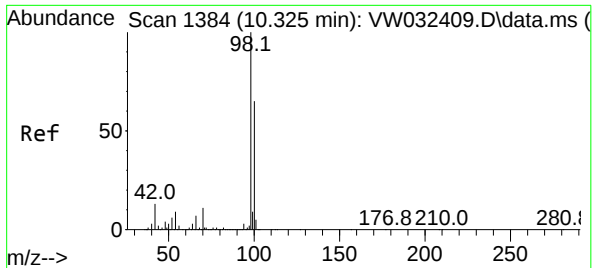
Ion Ratio Lower Upper

113 100

111 106.3 83.1 124.7

192 16.2 13.4 20.2

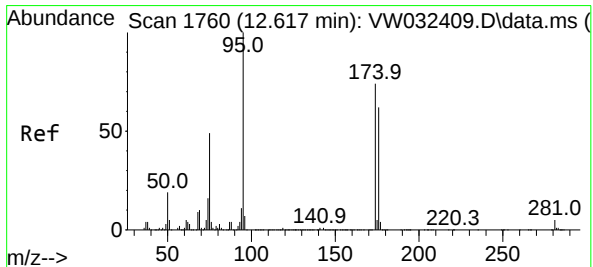
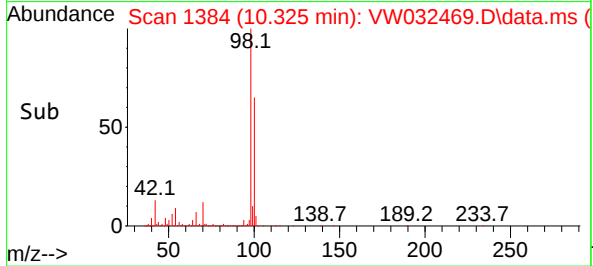
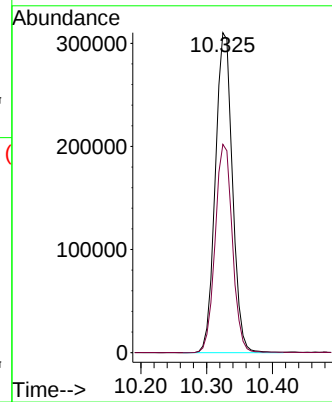
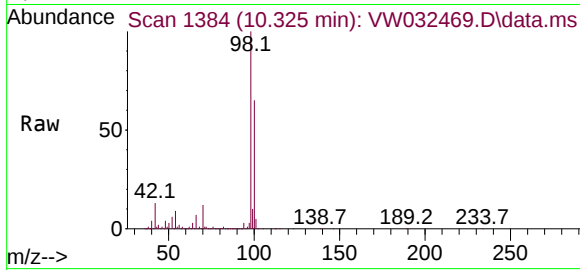




#50
Toluene-d8
Concen: 47.411 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

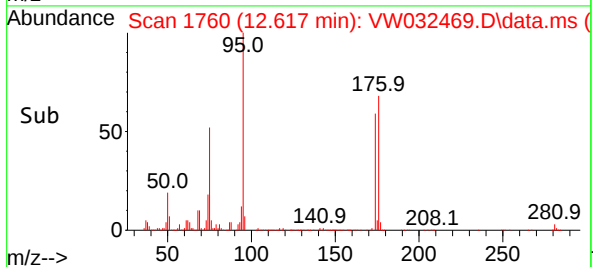
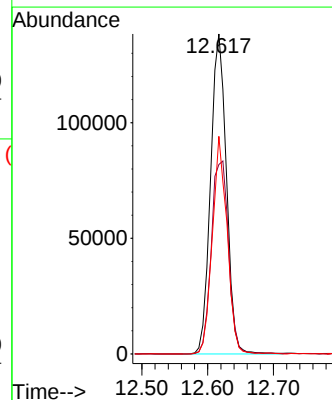
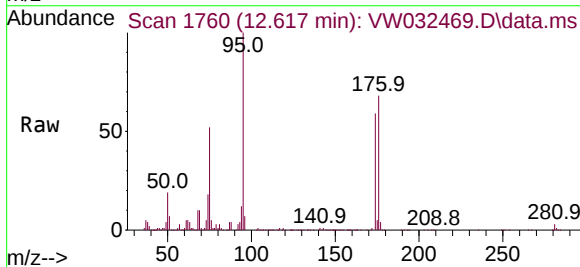
Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

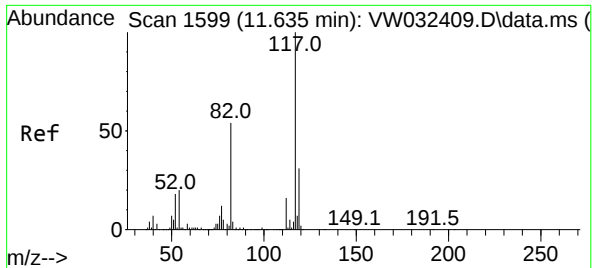
Tgt Ion: 98 Resp: 557281
Ion Ratio Lower Upper
98 100
100 65.7 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 52.041 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion: 95 Resp: 231076
Ion Ratio Lower Upper
95 100
174 65.9 0.0 135.4
176 63.2 0.0 131.8

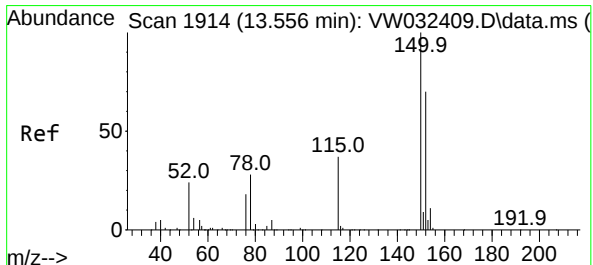
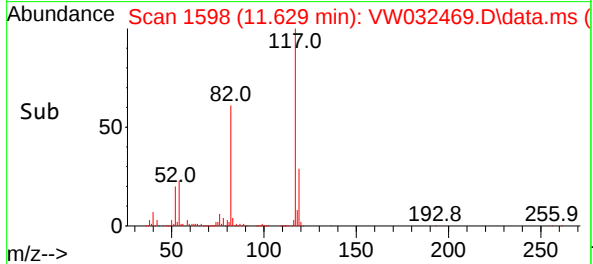
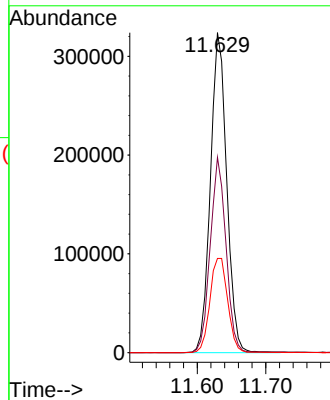
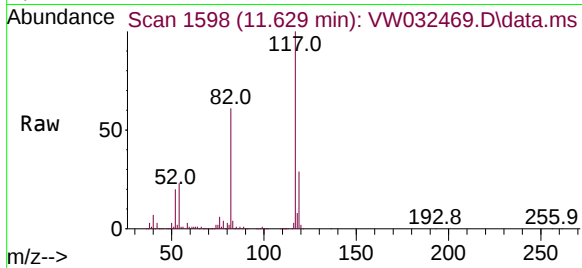




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

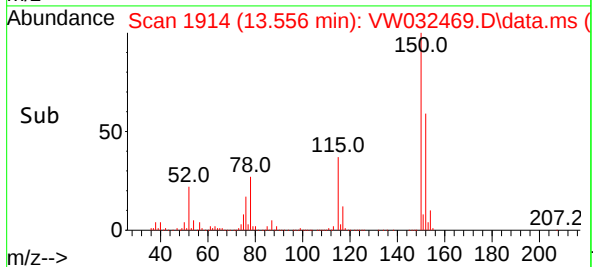
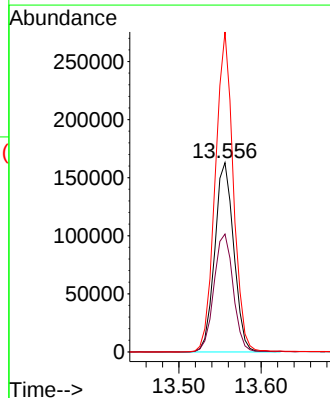
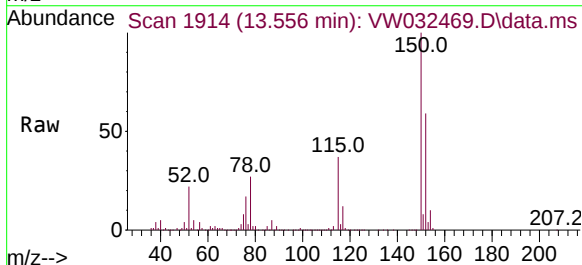
Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.1	43.0	64.4
119	29.4	25.0	37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.2	32.8	98.3
150	161.2	0.0	356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

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_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032469.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	369	373	391	rVB4	11071	43701	2.60%	0.467%
2	4.948	492	502	512	rBV2	13471	48057	2.86%	0.514%
3	5.966	660	669	679	rBV3	12263	38239	2.28%	0.409%
4	7.161	853	865	881	rBV	33826	103208	6.14%	1.104%
5	7.898	967	986	991	rBV	222246	544155	32.39%	5.821%
6	7.959	991	996	1008	rVB	297872	664220	39.54%	7.105%
7	8.264	1038	1046	1047	rBV2	12295	22590	1.34%	0.242%
8	8.319	1047	1055	1066	rVB	216925	495353	29.49%	5.299%
9	8.849	1132	1142	1159	rBV	607114	1235417	73.54%	13.215%
10	10.325	1376	1384	1399	rBV	833056	1503059	89.48%	16.078%
11	10.703	1437	1446	1453	rVB2	54698	103756	6.18%	1.110%
12	11.062	1499	1505	1514	rBV2	37248	67476	4.02%	0.722%
13	11.434	1557	1566	1575	rVB4	7820	18193	1.08%	0.195%
14	11.629	1590	1598	1608	rBV	1007973	1679831	100.00%	17.969%
15	12.617	1749	1760	1771	rBV2	643060	1098098	65.37%	11.746%
16	12.928	1803	1811	1818	rBV5	8586	17157	1.02%	0.184%
17	13.556	1906	1914	1924	rBV	1033242	1643799	97.86%	17.583%
18	14.062	1990	1997	2004	rVB	11268	22417	1.33%	0.240%

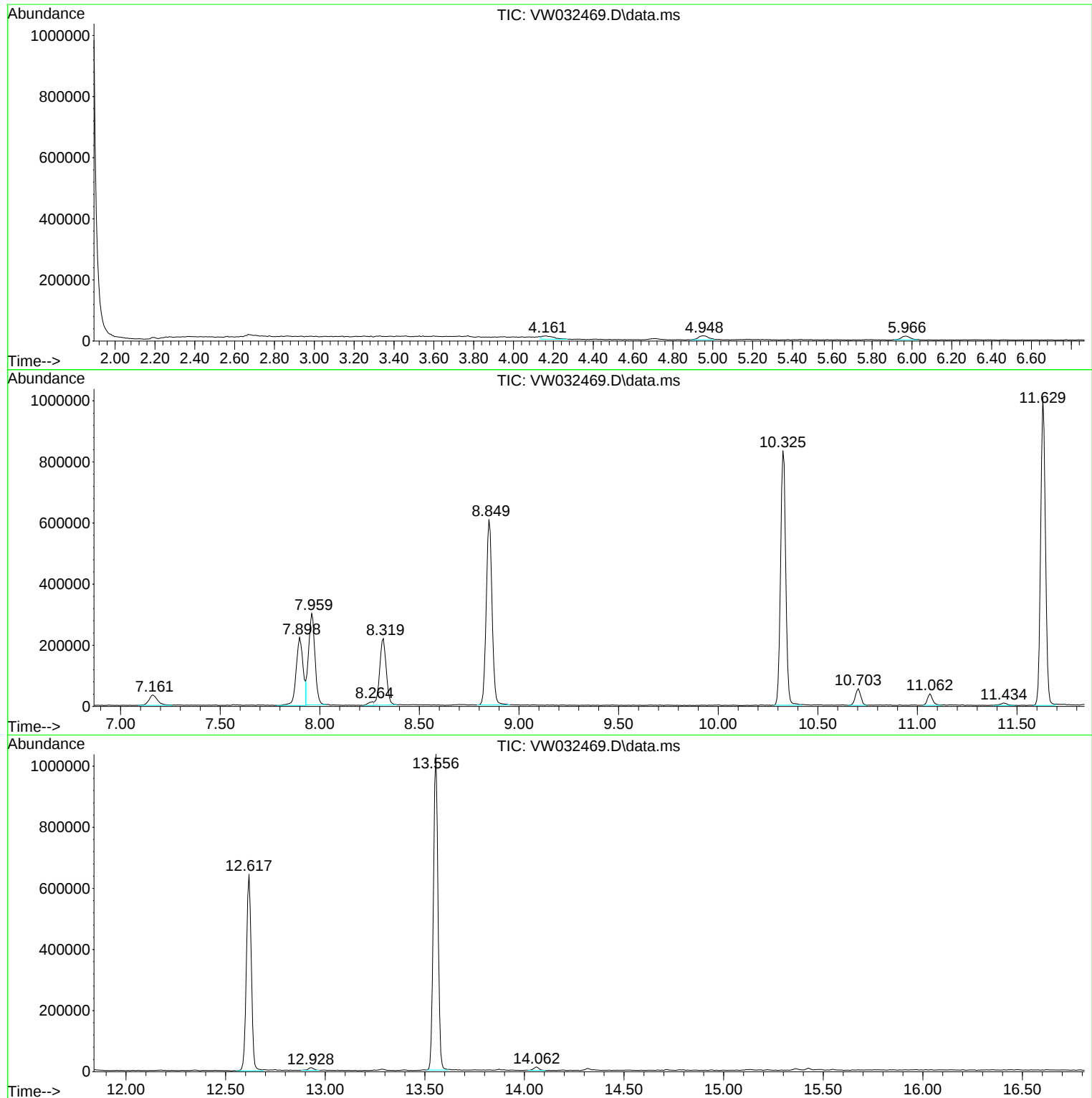
Sum of corrected areas: 9348726

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032491.D
 Acq On : 19 Nov 2025 10:36
 Operator : SY/MD
 Sample : VW1119SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1119SBL01

Quant Time: Nov 20 01:15:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards					
1) Pentafluorobenzene	7.959	168	218109	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	508852	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.629	117	541801	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	260882	50.000 ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.313	65	170243	60.543 ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 121.080%
35) Dibromofluoromethane	7.898	113	157341	51.644 ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 103.280%
50) Toluene-d8	10.325	98	531813	45.501 ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 91.000%
62) 4-Bromofluorobenzene	12.617	95	240405	54.449 ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 108.900%

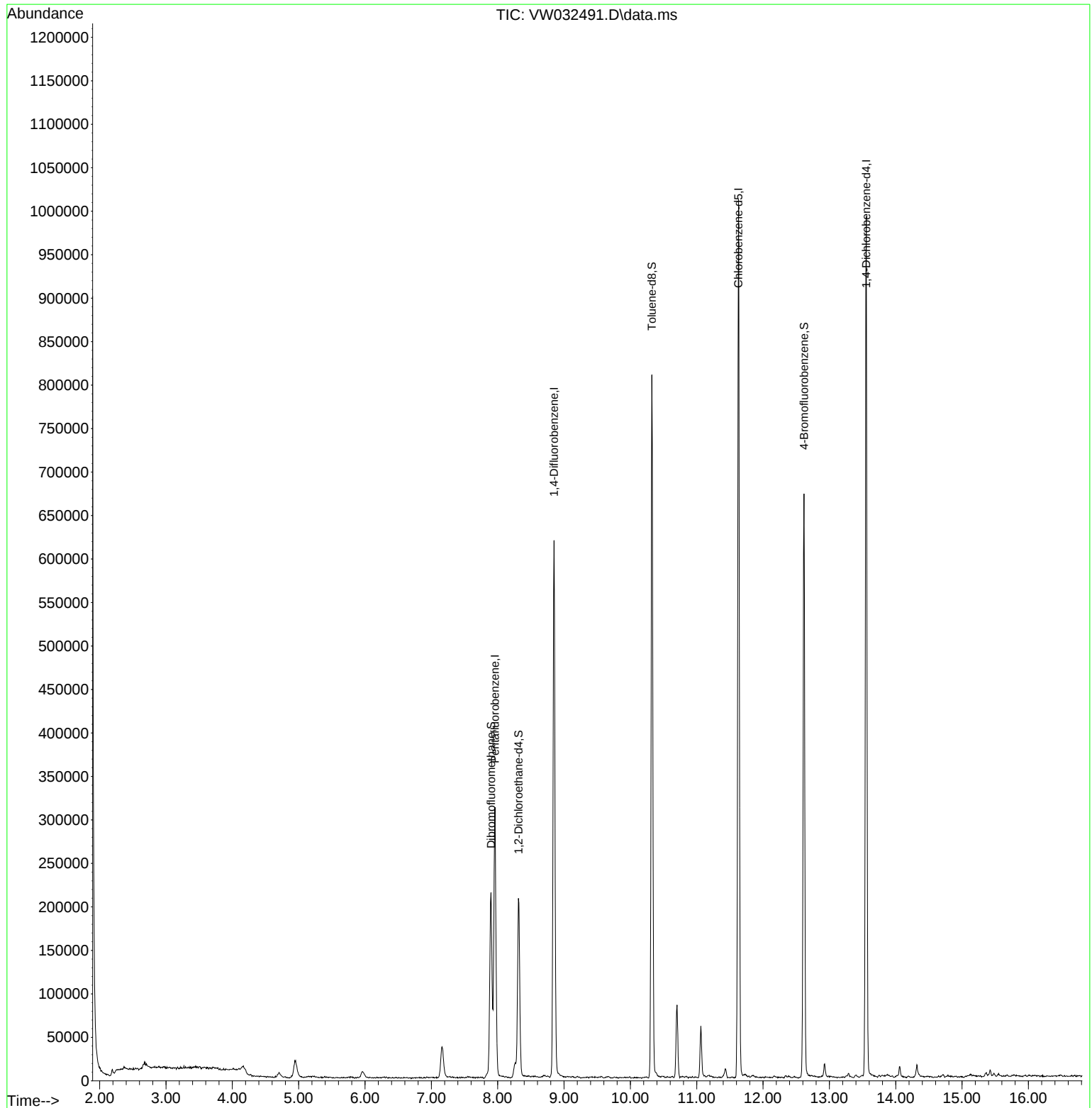
Target Compounds Qvalue

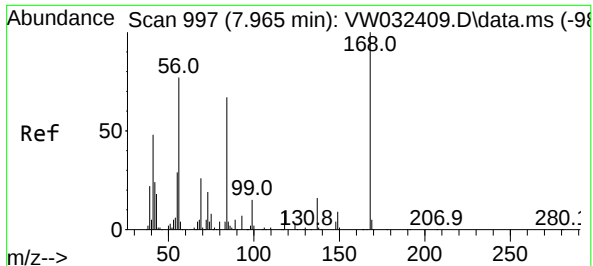
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032491.D
Acq On : 19 Nov 2025 10:36
Operator : SY/MD
Sample : VW1119SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

Quant Time: Nov 20 01:15:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

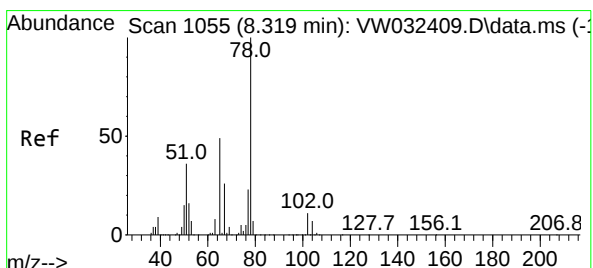
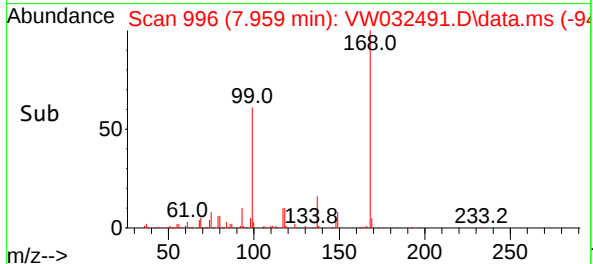
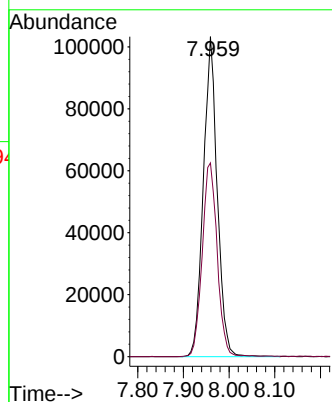
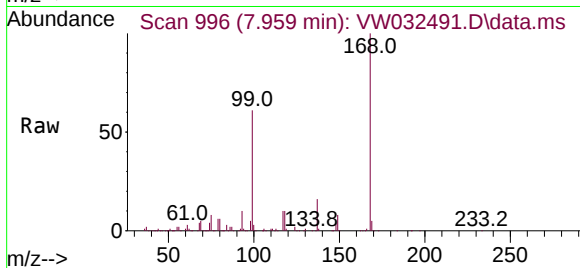




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

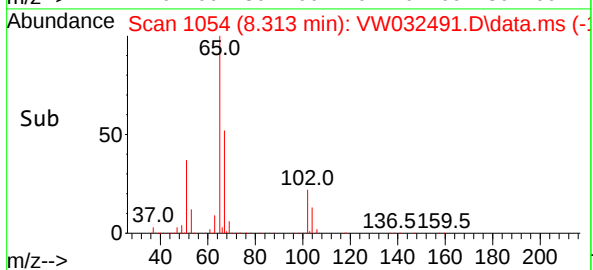
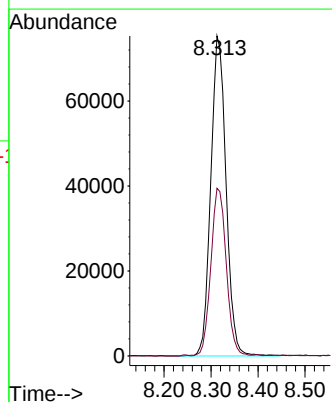
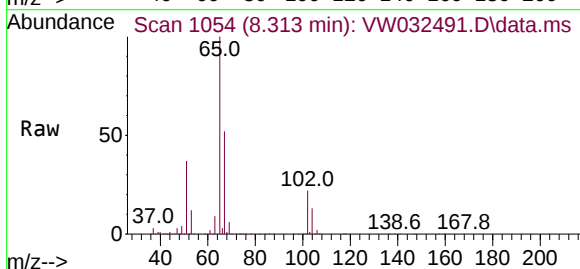
Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

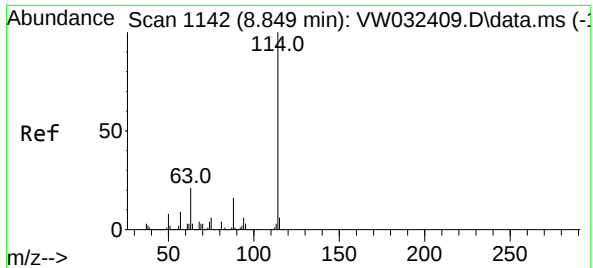
Tgt Ion:168 Resp: 218109
Ion Ratio Lower Upper
168 100
99 60.5 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 60.543 ug/l
RT: 8.313 min Scan# 1054
Delta R.T. -0.006 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

Tgt Ion: 65 Resp: 170243
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.8

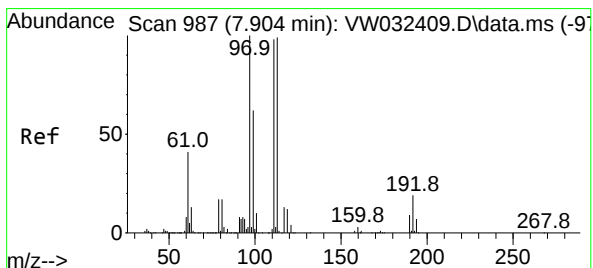
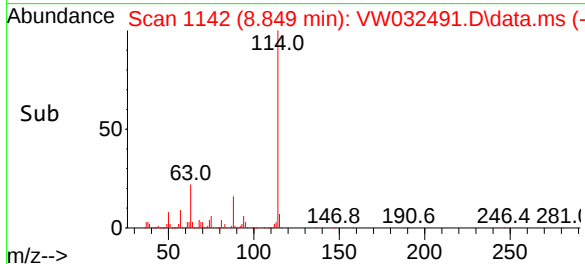
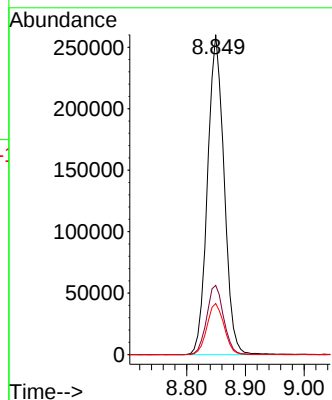
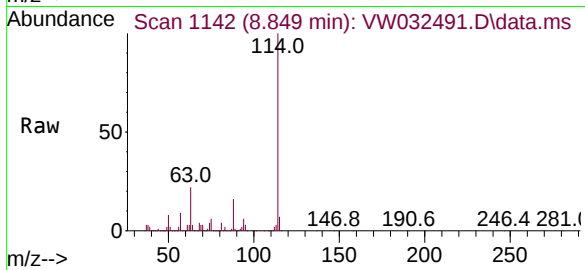




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

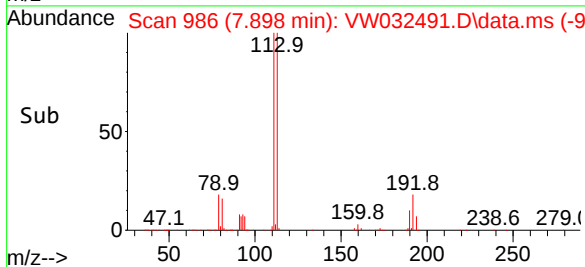
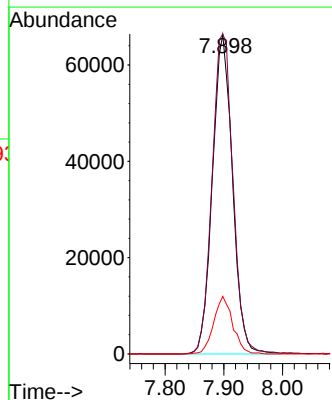
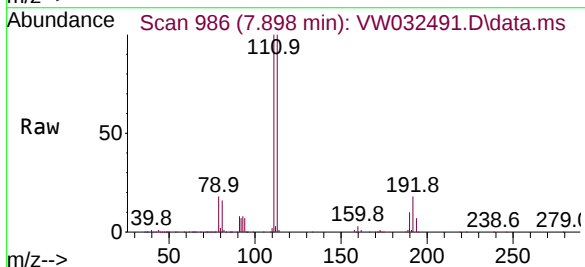
Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

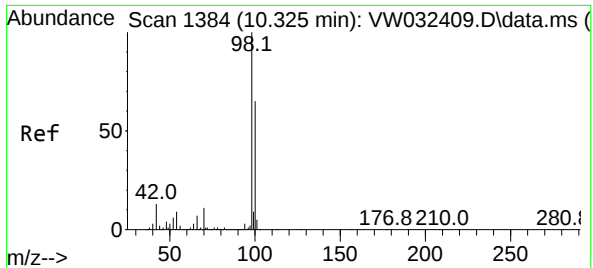
Tgt Ion:	114	Resp:	508852
Ion Ratio	Lower	Upper	
114	100		
63	21.6	0.0	41.8
88	16.0	0.0	32.6



#35
Dibromofluoromethane
Concen: 51.644 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

Tgt Ion:	113	Resp:	157341
Ion Ratio	Lower	Upper	
113	100		
111	104.2	83.1	124.7
192	17.1	13.4	20.2

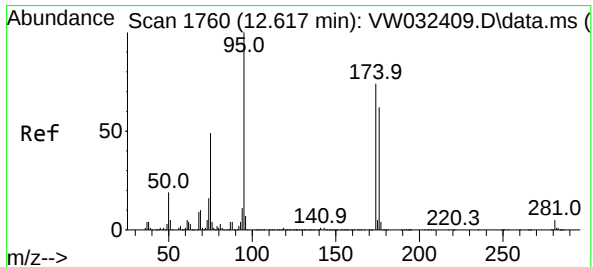
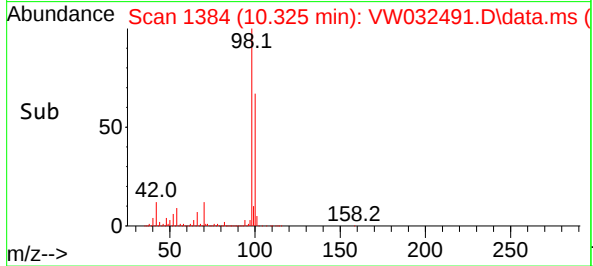
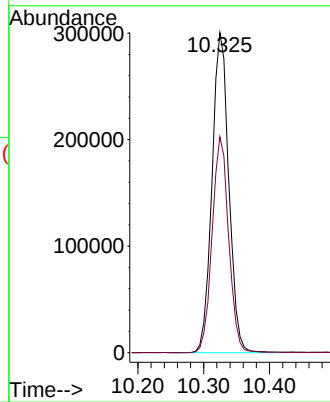
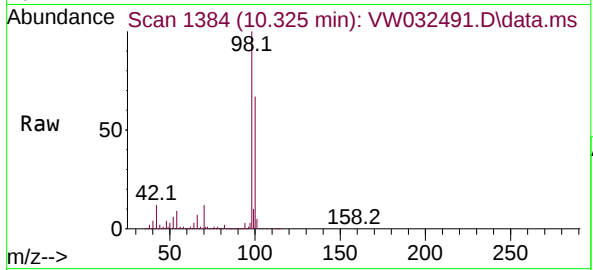




#50
Toluene-d8
Concen: 45.501 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

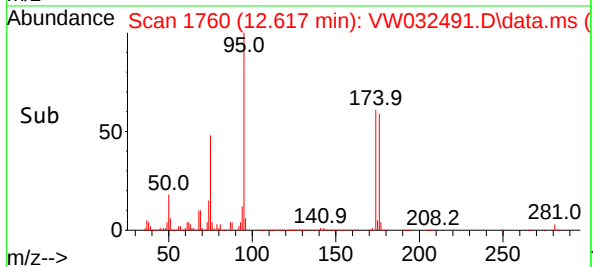
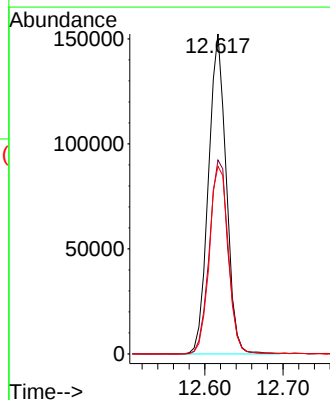
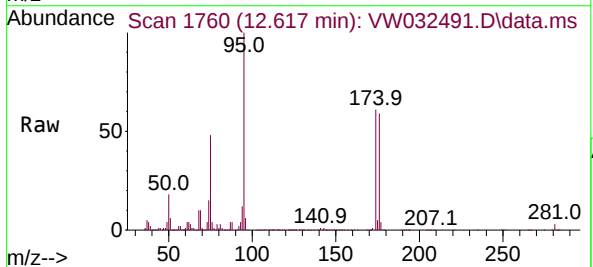
Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

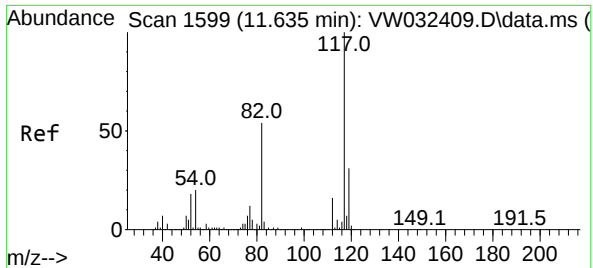
Tgt Ion: 98 Resp: 531813
Ion Ratio Lower Upper
98 100
100 66.5 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 54.449 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

Tgt Ion: 95 Resp: 240405
Ion Ratio Lower Upper
95 100
174 64.1 0.0 135.4
176 62.7 0.0 131.8

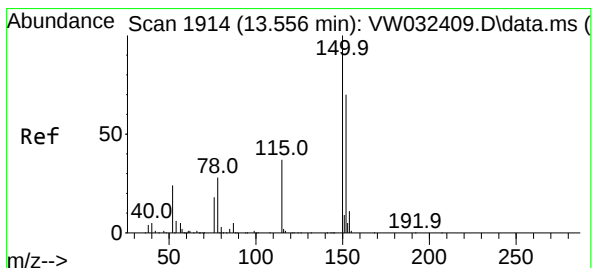
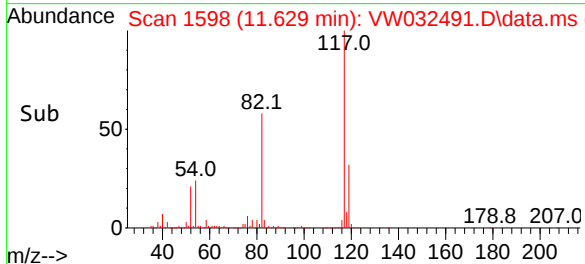
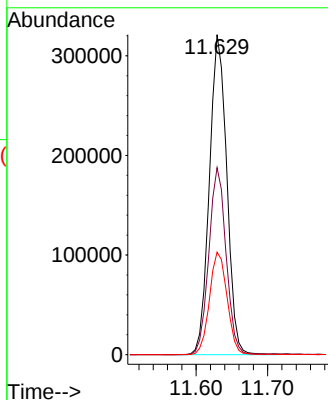
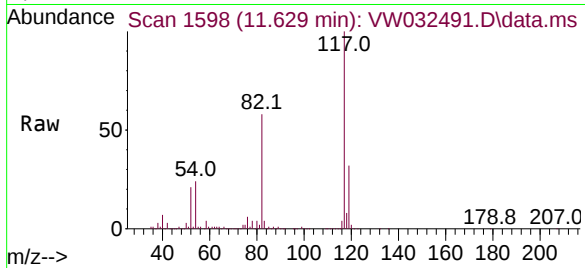




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1159
Delta R.T. -0.006 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

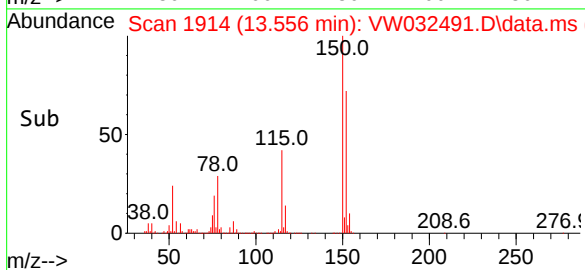
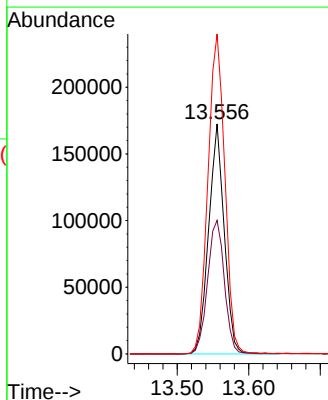
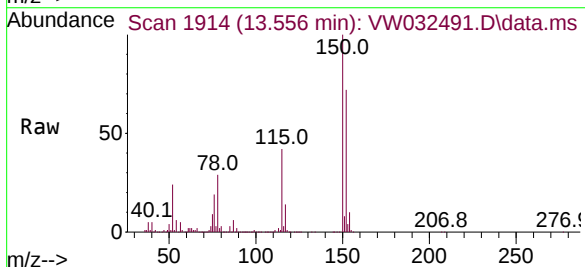
Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.4	43.0	64.4
119	32.0	25.0	37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.6	32.8	98.3
150	150.5	0.0	356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032491.D
 Acq On : 19 Nov 2025 10:36
 Operator : SY/MD
 Sample : VW1119SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1119SBL01

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_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032491.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	494	503	514	rVB2	18365	59377	3.49%	0.631%
2	5.960	663	668	678	rVB9	6332	18568	1.09%	0.197%
3	7.161	855	865	878	rBV2	35593	111167	6.54%	1.182%
4	7.898	969	986	991	rBV	213556	542405	31.92%	5.766%
5	7.959	991	996	1009	rVB	309488	674109	39.67%	7.166%
6	8.264	1038	1046	1047	rBV2	16827	32443	1.91%	0.345%
7	8.313	1047	1054	1067	rVB	204882	474348	27.92%	5.042%
8	8.849	1131	1142	1158	rBV	617581	1240044	72.98%	13.181%
9	10.325	1376	1384	1401	rBV	808698	1452429	85.48%	15.439%
10	10.703	1438	1446	1453	rVB	83745	156109	9.19%	1.659%
11	11.062	1499	1505	1513	rBV2	59277	105261	6.19%	1.119%
12	11.428	1556	1565	1571	rVB4	10446	23946	1.41%	0.255%
13	11.629	1590	1598	1609	rBV	1009897	1699131	100.00%	18.061%
14	12.617	1751	1760	1771	rBV	671078	1129752	66.49%	12.009%
15	12.928	1805	1811	1817	rBV4	14579	24078	1.42%	0.256%
16	13.556	1906	1914	1924	rBV	988308	1614460	95.02%	17.161%
17	14.056	1990	1996	2003	rVB	11568	20206	1.19%	0.215%
18	14.318	2032	2039	2048	rBV5	14090	29788	1.75%	0.317%

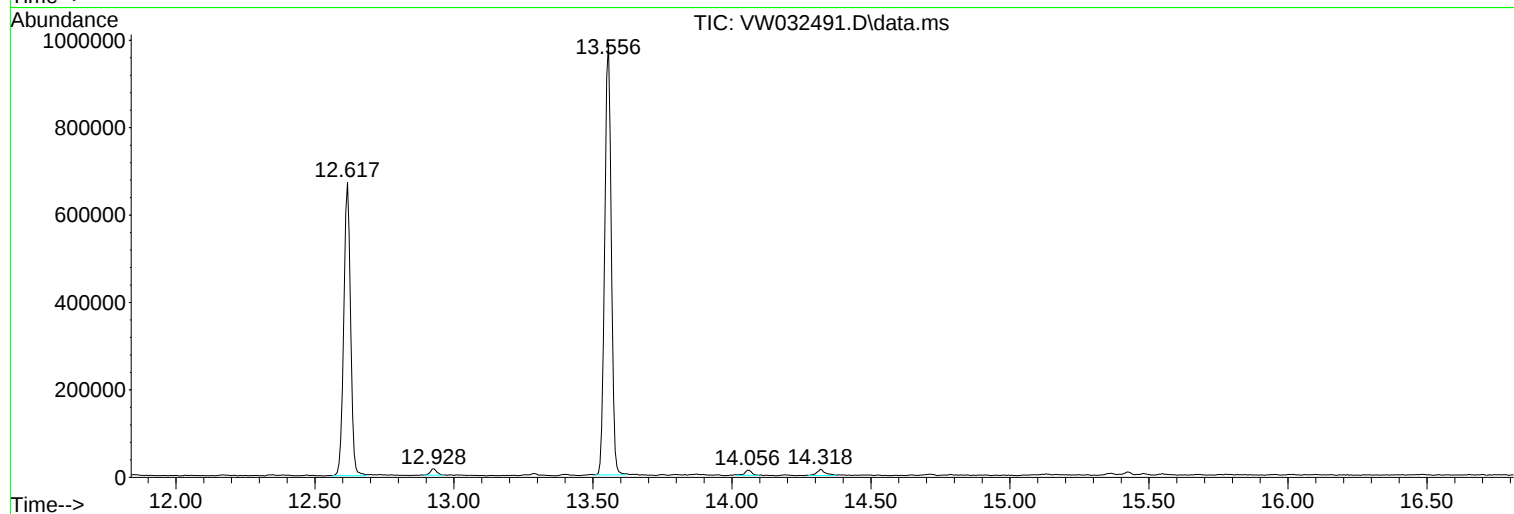
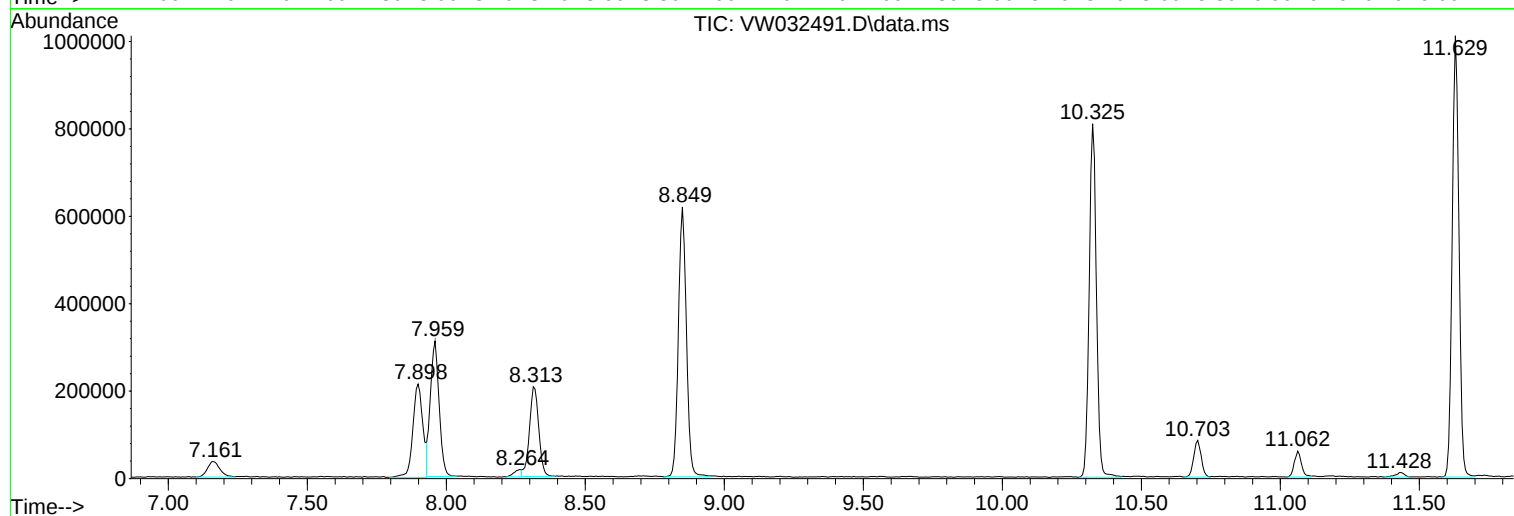
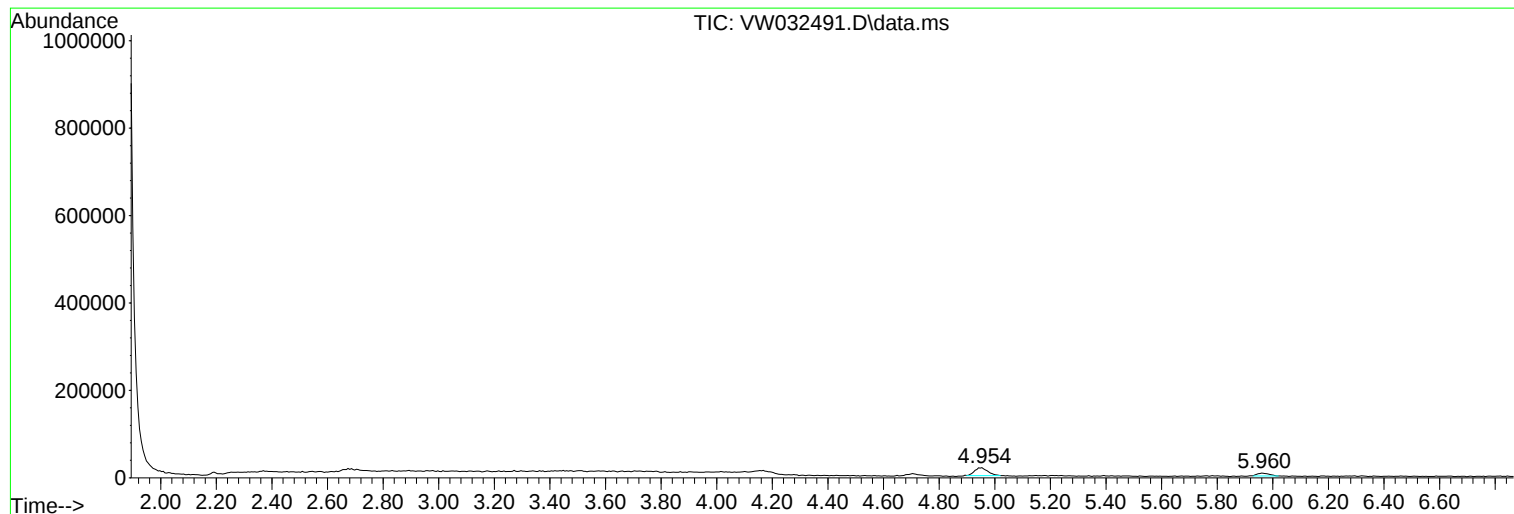
Sum of corrected areas: 9407621

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032491.D
Acq On : 19 Nov 2025 10:36
Operator : SY/MD
Sample : VW1119SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032491.D
Acq On : 19 Nov 2025 10:36
Operator : SY/MD
Sample : VW1119SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032491.D
Acq On : 19 Nov 2025 10:36
Operator : SY/MD
Sample : VW1119SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032470.D
 Acq On : 18 Nov 2025 10:40
 Operator : SY/MD
 Sample : VW1118SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:24:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	368383	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	685400	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	608119	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	294055	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	255196	53.733	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 107.460%	
35) Dibromofluoromethane	7.898	113	213451	52.015	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 104.020%	
50) Toluene-d8	10.325	98	818872	52.015	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 104.040%	
62) 4-Bromofluorobenzene	12.617	95	307374	51.685	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 103.360%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.046	85	38488	20.593	ug/l	99
3) Chloromethane	2.253	50	71618	22.355	ug/l	93
4) Vinyl Chloride	2.405	62	89842	22.221	ug/l	99
5) Bromomethane	2.820	94	58280	21.549	ug/l	97
6) Chloroethane	2.960	64	56196	21.244	ug/l	97
7) Trichlorofluoromethane	3.301	101	58389	18.419	ug/l	94
8) Diethyl Ether	3.716	74	55714	21.497	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.100	101	75306	21.808	ug/l	98
10) Methyl Iodide	4.307	142	119544	21.494	ug/l	98
11) Tert butyl alcohol	5.210	59	48334	117.694	ug/l	97
12) 1,1-Dichloroethene	4.076	96	86906	21.948	ug/l	93
13) Acrolein	3.923	56	64287	93.300	ug/l	99
14) Allyl chloride	4.704	41	159169	20.903	ug/l	97
15) Acrylonitrile	5.399	53	160342	107.002	ug/l	99
16) Acetone	4.155	43	156966	110.471	ug/l	97
17) Carbon Disulfide	4.417	76	245893	21.011	ug/l	99
18) Methyl Acetate	4.710	43	70931	20.159	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	173277	20.760	ug/l	98
20) Methylene Chloride	4.954	84	122854	24.177	ug/l	97
21) trans-1,2-Dichloroethene	5.460	96	98918	21.848	ug/l	96
22) Diisopropyl ether	6.337	45	341073	22.000	ug/l	99
23) Vinyl Acetate	6.283	43	1141803	107.495	ug/l	98
24) 1,1-Dichloroethane	6.240	63	188427	22.184	ug/l	99
25) 2-Butanone	7.191	43	215588	102.988	ug/l	99
26) 2,2-Dichloropropane	7.179	77	103861	21.940	ug/l	97
27) cis-1,2-Dichloroethene	7.185	96	114228	21.115	ug/l	94
28) Bromochloromethane	7.532	49	91122	22.698	ug/l	98
29) Tetrahydrofuran	7.551	42	140459	105.716	ug/l	99
30) Chloroform	7.691	83	187382	22.535	ug/l	96
31) Cyclohexane	7.965	56	171770	21.862	ug/l	97
32) 1,1,1-Trichloroethane	7.886	97	129040	21.723	ug/l	97
36) 1,1-Dichloropropene	8.099	75	131104	21.683	ug/l	99
37) Ethyl Acetate	7.270	43	95031	21.137	ug/l	99
38) Carbon Tetrachloride	8.081	117	116247	21.638	ug/l	98
39) Methylcyclohexane	9.343	83	161283	20.591	ug/l	98
40) Benzene	8.331	78	425541	21.855	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032470.D
 Acq On : 18 Nov 2025 10:40
 Operator : SY/MD
 Sample : VW1118SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBS01

Quant Time: Nov 19 00:24:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	52311	21.180	ug/l	97
42) 1,2-Dichloroethane	8.410	62	127207	22.242	ug/l	100
43) Isopropyl Acetate	8.435	43	165173	20.748	ug/l	99
44) Trichloroethene	9.099	130	96297	21.254	ug/l	97
45) 1,2-Dichloropropane	9.373	63	107029	22.075	ug/l	100
46) Dibromomethane	9.465	93	62354	22.008	ug/l	100
47) Bromodichloromethane	9.648	83	140779	21.783	ug/l	98
48) Methyl methacrylate	9.441	41	73852	19.522	ug/l	94
49) 1,4-Dioxane	9.471	88	17446	439.555	ug/l #	95
51) 4-Methyl-2-Pentanone	10.209	43	477160	108.419	ug/l	98
52) Toluene	10.392	92	259957	21.614	ug/l	100
53) t-1,3-Dichloropropene	10.605	75	136548	20.515	ug/l	96
54) cis-1,3-Dichloropropene	10.075	75	160370	20.835	ug/l	96
55) 1,1,2-Trichloroethane	10.788	97	82820	21.308	ug/l	92
56) Ethyl methacrylate	10.648	69	119127	19.976	ug/l	99
57) 1,3-Dichloropropane	10.934	76	150767	21.719	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	342033	107.697	ug/l	99
59) 2-Hexanone	10.971	43	328980	102.168	ug/l	98
60) Dibromochloromethane	11.129	129	90761	20.911	ug/l	99
61) 1,2-Dibromoethane	11.233	107	80832	21.353	ug/l	98
64) Tetrachloroethene	10.861	164	78315	21.747	ug/l	91
65) Chlorobenzene	11.654	112	283163	21.604	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.727	131	87522	21.576	ug/l	99
67) Ethyl Benzene	11.727	91	480261	21.176	ug/l	97
68) m/p-Xylenes	11.836	106	370819	43.548	ug/l	98
69) o-Xylene	12.166	106	174282	21.376	ug/l	96
70) Styrene	12.178	104	303516	21.640	ug/l	99
71) Bromoform	12.349	173	48193	20.058	ug/l #	99
73) Isopropylbenzene	12.464	105	433479	20.072	ug/l	100
74) N-amyl acetate	12.269	43	148008	19.722	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	108325	21.135	ug/l	97
76) 1,2,3-Trichloropropane	12.763	75	78035m	19.354	ug/l	
77) Bromobenzene	12.745	156	108802	21.278	ug/l	99
78) n-propylbenzene	12.800	91	561613	21.354	ug/l	97
79) 2-Chlorotoluene	12.891	91	334404	20.828	ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	361865	20.310	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.507	75	33360	18.951	ug/l	93
82) 4-Chlorotoluene	12.989	91	350145	20.968	ug/l	96
83) tert-Butylbenzene	13.202	119	308467	19.902	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	377306	20.820	ug/l	100
85) sec-Butylbenzene	13.379	105	461376	19.988	ug/l	100
86) p-Isopropyltoluene	13.495	119	385969	20.252	ug/l	100
87) 1,3-Dichlorobenzene	13.495	146	205508	21.198	ug/l	96
88) 1,4-Dichlorobenzene	13.574	146	206055	20.746	ug/l	97
89) n-Butylbenzene	13.818	91	376028	20.195	ug/l	98
90) Hexachloroethane	14.086	117	68760	20.010	ug/l	93
91) 1,2-Dichlorobenzene	13.867	146	188016	21.126	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	16916	19.159	ug/l	98
93) 1,2,4-Trichlorobenzene	15.122	180	113600	20.059	ug/l	98
94) Hexachlorobutadiene	15.226	225	47617	20.241	ug/l	97
95) Naphthalene	15.354	128	253885	17.977	ug/l	98
96) 1,2,3-Trichlorobenzene	15.549	180	102712	19.976	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032470.D
Acq On : 18 Nov 2025 10:40
Operator : SY/MD
Sample : VW1118SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 00:24:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

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

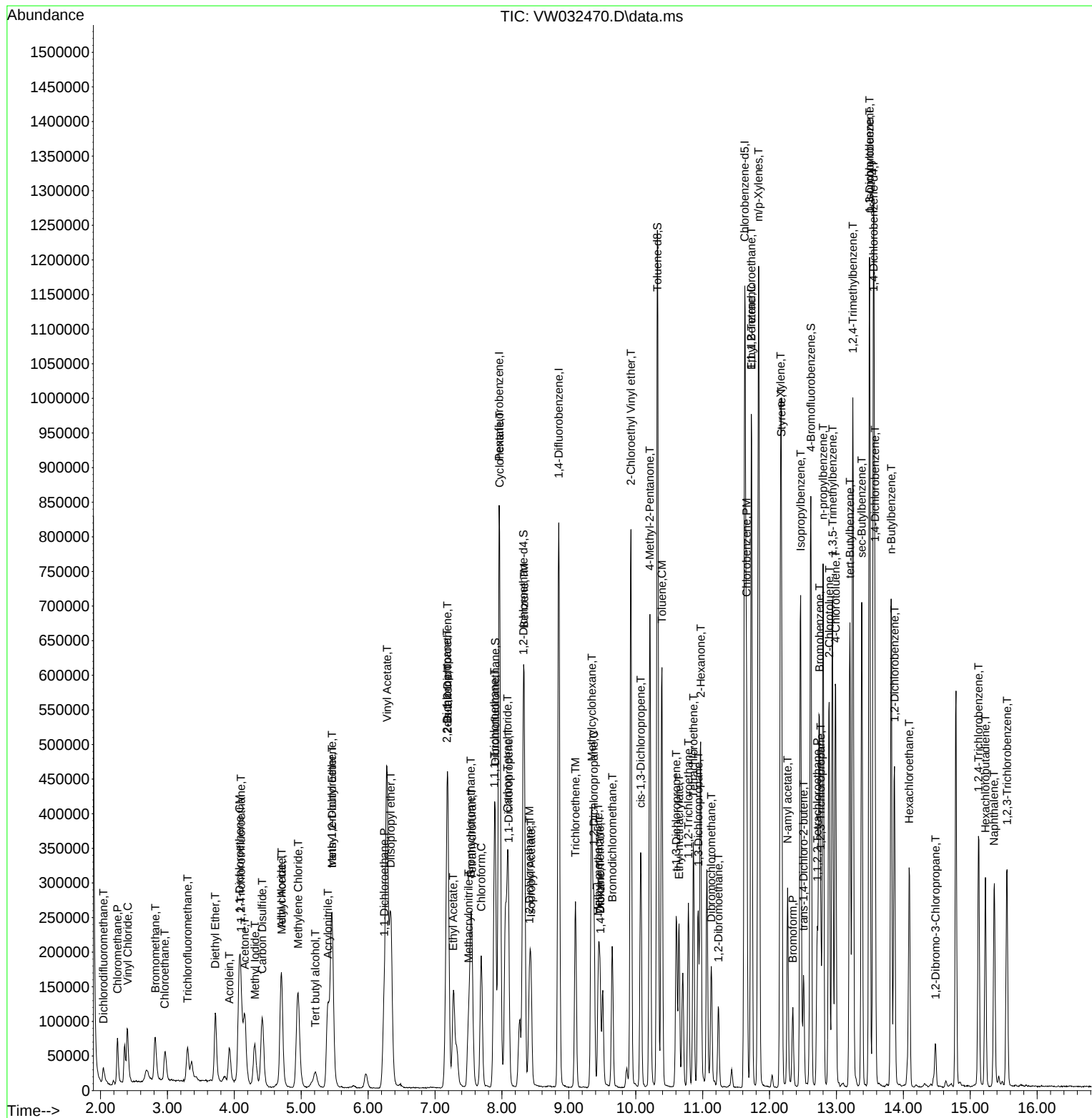
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Acq On : 18 Nov 2025 10:40
Operator : SY/MD
Sample : VW11185BS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:24:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032492.D
 Acq On : 19 Nov 2025 11:11
 Operator : SY/MD
 Sample : VW1119SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1119SBS01

Quant Time: Nov 20 01:15:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/20/2025
 Supervised By :Mahesh Dadoda 11/20/2025

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	361405	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	660085	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	590674	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	285477	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.313	65	243218	52.200	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 104.400%	
35) Dibromofluoromethane	7.898	113	204531	51.753	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 103.500%	
50) Toluene-d8	10.325	98	790714	52.153	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 104.300%	
62) 4-Bromofluorobenzene	12.617	95	290609	50.740	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 101.480%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.046	85	36626	19.975	ug/l	95
3) Chloromethane	2.253	50	68922	21.929	ug/l	94
4) Vinyl Chloride	2.399	62	86866	21.900	ug/l	97
5) Bromomethane	2.820	94	57660	21.731	ug/l	95
6) Chloroethane	2.966	64	53005	20.425	ug/l	97
7) Trichlorofluoromethane	3.302	101	56783	18.259	ug/l	86
8) Diethyl Ether	3.716	74	51404	20.217	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.094	101	73456	21.683	ug/l	98
10) Methyl Iodide	4.301	142	112464	20.612	ug/l	99
11) Tert butyl alcohol	5.210	59	38806	96.318	ug/l	99
12) 1,1-Dichloroethene	4.076	96	81722	21.038	ug/l	95
13) Acrolein	3.924	56	57195	84.610	ug/l	96
14) Allyl chloride	4.704	41	153990	20.614	ug/l	98
15) Acrylonitrile	5.393	53	146028	99.332	ug/l	99
16) Acetone	4.155	43	146713	105.248	ug/l	96
17) Carbon Disulfide	4.417	76	235675	20.527	ug/l	98
18) Methyl Acetate	4.704	43	65632	19.013	ug/l	100
19) Methyl tert-butyl Ether	5.454	73	159847	19.521	ug/l	100
20) Methylene Chloride	4.954	84	112458	22.559	ug/l	98
21) trans-1,2-Dichloroethene	5.460	96	93550	21.061	ug/l	99
22) Diisopropyl ether	6.338	45	318965	20.971	ug/l	98
23) Vinyl Acetate	6.277	43	1046362	100.412	ug/l	100
24) 1,1-Dichloroethane	6.240	63	179819	21.579	ug/l	99
25) 2-Butanone	7.191	43	197486	96.163	ug/l	99
26) 2,2-Dichloropropane	7.179	77	95756	20.619	ug/l	98
27) cis-1,2-Dichloroethene	7.185	96	110174	20.759	ug/l	98
28) Bromochloromethane	7.527	49	86496	21.961	ug/l	97
29) Tetrahydrofuran	7.551	42	125719	96.449	ug/l	99
30) Chloroform	7.685	83	178648	21.899	ug/l	98
31) Cyclohexane	7.965	56	155531	20.177	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	123378	21.171	ug/l	97
36) 1,1-Dichloropropene	8.093	75	124481	21.377	ug/l	100
37) Ethyl Acetate	7.270	43	89812	20.742	ug/l	96
38) Carbon Tetrachloride	8.081	117	110629	21.382	ug/l	97
39) Methylcyclohexane	9.343	83	147857	19.601	ug/l	96
40) Benzene	8.331	78	401357	21.403	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032492.D
 Acq On : 19 Nov 2025 11:11
 Operator : SY/MD
 Sample : VW1119SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1119SBS01

Quant Time: Nov 20 01:15:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/20/2025
 Supervised By :Mahesh Dadoda 11/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	48775	20.506	ug/l	96
42) 1,2-Dichloroethane	8.411	62	120348	21.849	ug/l	99
43) Isopropyl Acetate	8.435	43	149609	19.513	ug/l	98
44) Trichloroethene	9.099	130	90301	20.695	ug/l	94
45) 1,2-Dichloropropane	9.374	63	100404	21.503	ug/l	100
46) Dibromomethane	9.465	93	58816	21.556	ug/l	98
47) Bromodichloromethane	9.648	83	129606	20.823	ug/l	97
48) Methyl methacrylate	9.441	41	66792	18.333	ug/l	95
49) 1,4-Dioxane	9.459	88	14834	388.079	ug/l #	96
51) 4-Methyl-2-Pentanone	10.209	43	433442	102.263	ug/l	98
52) Toluene	10.386	92	252405	21.791	ug/l	97
53) t-1,3-Dichloropropene	10.605	75	129416	20.189	ug/l	97
54) cis-1,3-Dichloropropene	10.075	75	148531	20.037	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	79341	21.196	ug/l	97
56) Ethyl methacrylate	10.642	69	109811	19.120	ug/l	99
57) 1,3-Dichloropropane	10.934	76	141967	21.235	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.929	63	327225	106.985	ug/l	99
59) 2-Hexanone	10.965	43	299147	96.466	ug/l	98
60) Dibromochloromethane	11.130	129	87995	21.051	ug/l	99
61) 1,2-Dibromoethane	11.239	107	74808	20.519	ug/l	100
64) Tetrachloroethene	10.867	164	72274	20.662	ug/l	94
65) Chlorobenzene	11.654	112	268333	21.077	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.727	131	81845	20.773	ug/l	99
67) Ethyl Benzene	11.727	91	455523	20.679	ug/l	98
68) m/p-Xylenes	11.837	106	345847	41.815	ug/l	98
69) o-Xylene	12.166	106	160949	20.324	ug/l	100
70) Styrene	12.178	104	287144	21.078	ug/l	99
71) Bromoform	12.343	173	45773	19.614	ug/l #	98
73) Isopropylbenzene	12.465	105	402569	19.201	ug/l	99
74) N-amyl acetate	12.270	43	139579	19.158	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.715	83	101457	20.390	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	84952m	21.703	ug/l	
77) Bromobenzene	12.739	156	99858	20.116	ug/l	97
78) n-propylbenzene	12.800	91	524701	20.550	ug/l	98
79) 2-Chlorotoluene	12.885	91	313773	20.131	ug/l	97
80) 1,3,5-Trimethylbenzene	12.940	105	350920	20.288	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.507	75	31435	18.394	ug/l	90
82) 4-Chlorotoluene	12.983	91	335416	20.690	ug/l	99
83) tert-Butylbenzene	13.202	119	283999	18.874	ug/l	97
84) 1,2,4-Trimethylbenzene	13.245	105	351381	19.972	ug/l	98
85) sec-Butylbenzene	13.379	105	431962	19.276	ug/l	100
86) p-Isopropyltoluene	13.495	119	363724	19.658	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	198267	21.066	ug/l	98
88) 1,4-Dichlorobenzene	13.574	146	196748	20.404	ug/l	95
89) n-Butylbenzene	13.818	91	357992	19.804	ug/l	98
90) Hexachloroethane	14.086	117	64025	19.192	ug/l	96
91) 1,2-Dichlorobenzene	13.867	146	184603	21.366	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.476	75	16213	18.914	ug/l	96
93) 1,2,4-Trichlorobenzene	15.129	180	105148	19.124	ug/l	98
94) Hexachlorobutadiene	15.226	225	44260	19.379	ug/l	96
95) Naphthalene	15.360	128	232705	16.972	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	100646	20.163	ug/l	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032492.D
Acq On : 19 Nov 2025 11:11
Operator : SY/MD
Sample : VW1119SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 01:15:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/20/2025
Supervised By :Mahesh Dadoda 11/20/2025

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

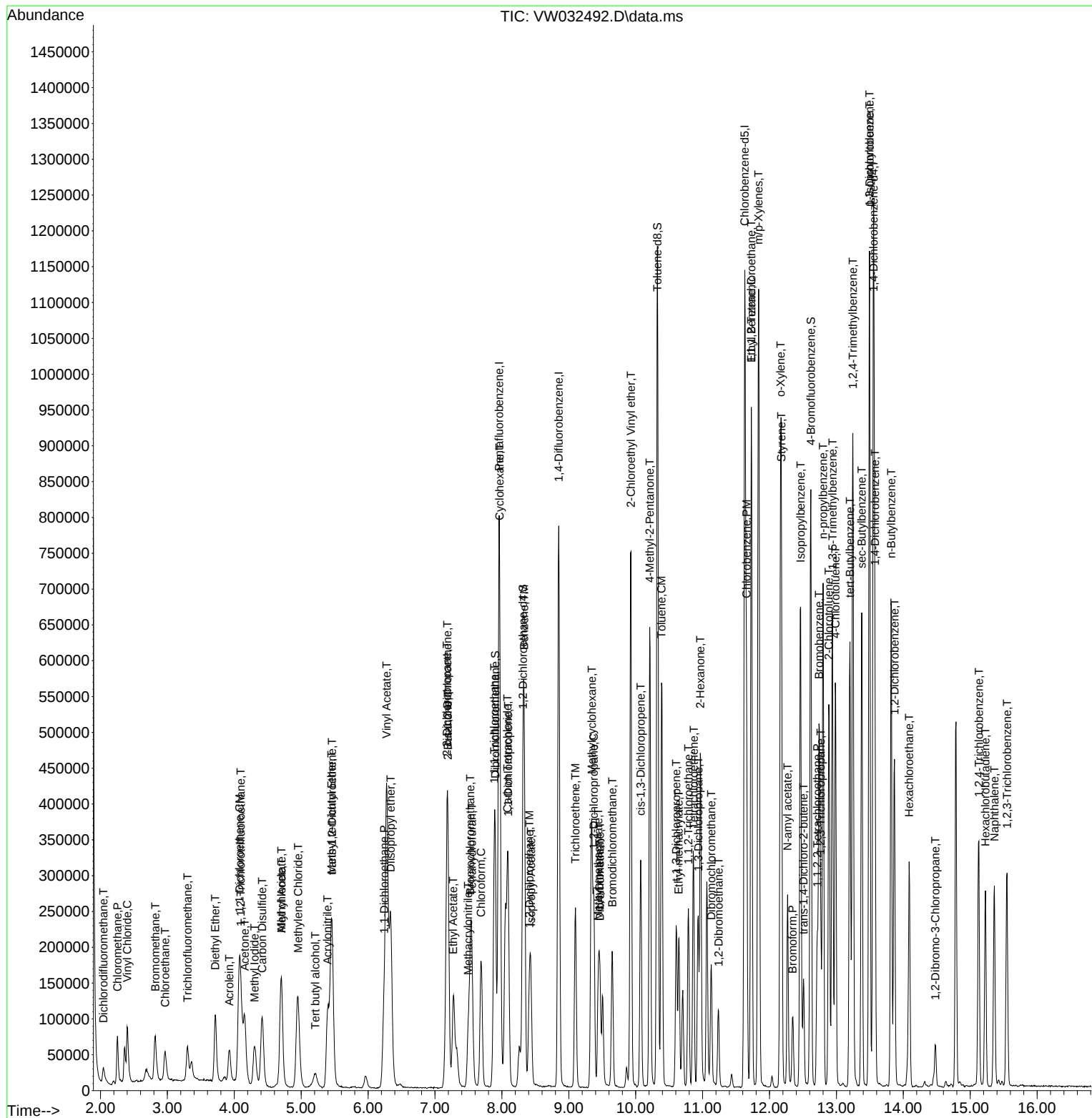
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Data File : VW032492.D
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Operator  : SY/MD
Sample    : VW1119SBS01
Misc      : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBS01

Manual Integrations

Reviewed By :Amit Patel 11/20/2025
Supervised By :Mahesh Dadoda 11/20/2025

Quant Time: Nov 20 01:15:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032471.D
 Acq On : 18 Nov 2025 11:02
 Operator : SY/MD
 Sample : VW1118SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:25:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	367695	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	692034	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	614192	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	277057	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	247225	52.152	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 104.300%	
35) Dibromofluoromethane	7.904	113	209098	50.466	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 100.940%	
50) Toluene-d8	10.325	98	814032	51.212	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 102.420%	
62) 4-Bromofluorobenzene	12.617	95	298194	49.661	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 99.320%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.040	85	40835	21.889	ug/l	94
3) Chloromethane	2.253	50	70404	22.017	ug/l	99
4) Vinyl Chloride	2.405	62	90715	22.479	ug/l	95
5) Bromomethane	2.820	94	60053	22.246	ug/l	97
6) Chloroethane	2.966	64	57168	21.652	ug/l	99
7) Trichlorofluoromethane	3.308	101	70047	22.138	ug/l	92
8) Diethyl Ether	3.716	74	53653	20.741	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	78214	22.693	ug/l	98
10) Methyl Iodide	4.307	142	117653	21.194	ug/l	98
11) Tert butyl alcohol	5.216	59	44484	108.522	ug/l	100
12) 1,1-Dichloroethene	4.076	96	88001	22.266	ug/l	100
13) Acrolein	3.929	56	61188	88.969	ug/l	98
14) Allyl chloride	4.704	41	164742	21.676	ug/l	98
15) Acrylonitrile	5.405	53	158572	106.019	ug/l	98
16) Acetone	4.161	43	148438	104.664	ug/l	98
17) Carbon Disulfide	4.417	76	251424	21.524	ug/l	98
18) Methyl Acetate	4.710	43	70239	20.000	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	172461	20.701	ug/l	100
20) Methylene Chloride	4.954	84	119594	23.580	ug/l	98
21) trans-1,2-Dichloroethene	5.460	96	99851	22.095	ug/l	93
22) Diisopropyl ether	6.344	45	347227	22.439	ug/l	96
23) Vinyl Acetate	6.283	43	1145335	108.030	ug/l	98
24) 1,1-Dichloroethane	6.246	63	191582	22.597	ug/l	99
25) 2-Butanone	7.191	43	211255	101.107	ug/l	97
26) 2,2-Dichloropropane	7.185	77	106084	22.452	ug/l	97
27) cis-1,2-Dichloroethene	7.191	96	116504	21.576	ug/l	97
28) Bromochloromethane	7.532	49	91167	22.751	ug/l	95
29) Tetrahydrofuran	7.557	42	140552	105.984	ug/l	98
30) Chloroform	7.697	83	188461	22.707	ug/l	98
31) Cyclohexane	7.965	56	172748	22.027	ug/l	91
32) 1,1,1-Trichloroethane	7.886	97	131999	22.263	ug/l	98
36) 1,1-Dichloropropene	8.093	75	136205	22.311	ug/l	98
37) Ethyl Acetate	7.276	43	95805	21.105	ug/l	99
38) Carbon Tetrachloride	8.081	117	122018	22.494	ug/l	89
39) Methylcyclohexane	9.343	83	164638	20.818	ug/l	91
40) Benzene	8.337	78	428421	21.792	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032471.D
 Acq On : 18 Nov 2025 11:02
 Operator : SY/MD
 Sample : VW1118SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:25:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	49368	19.797	ug/l	97
42) 1,2-Dichloroethane	8.410	62	126122	21.841	ug/l	99
43) Isopropyl Acetate	8.435	43	164319	20.442	ug/l	99
44) Trichloroethene	9.099	130	97571	21.328	ug/l	98
45) 1,2-Dichloropropane	9.374	63	106607	21.777	ug/l	98
46) Dibromomethane	9.465	93	62759	21.939	ug/l	97
47) Bromodichloromethane	9.654	83	139764	21.418	ug/l	97
48) Methyl methacrylate	9.441	41	73924	19.354	ug/l	95
49) 1,4-Dioxane	9.465	88	16943	422.790	ug/l #	97
51) 4-Methyl-2-Pentanone	10.215	43	469930	105.753	ug/l	99
52) Toluene	10.392	92	266368	21.935	ug/l	98
53) t-1,3-Dichloropropene	10.611	75	137060	20.395	ug/l	97
54) cis-1,3-Dichloropropene	10.081	75	161937	20.837	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	83014	21.154	ug/l	98
56) Ethyl methacrylate	10.648	69	118441	19.670	ug/l	98
57) 1,3-Dichloropropane	10.934	76	150752	21.508	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.928	63	334590	104.343	ug/l	100
59) 2-Hexanone	10.971	43	328281	100.974	ug/l	97
60) Dibromochloromethane	11.136	129	90803	20.720	ug/l	99
61) 1,2-Dibromoethane	11.239	107	79907	20.906	ug/l	99
64) Tetrachloroethene	10.861	164	76983	21.166	ug/l	92
65) Chlorobenzene	11.654	112	284215	21.470	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.733	131	85505	20.871	ug/l	97
67) Ethyl Benzene	11.727	91	501618	21.899	ug/l	99
68) m/p-Xylenes	11.837	106	381526	44.363	ug/l	99
69) o-Xylene	12.166	106	174487	21.189	ug/l	100
70) Styrene	12.178	104	310384	21.911	ug/l	100
71) Bromoform	12.343	173	46921	19.336	ug/l #	98
73) Isopropylbenzene	12.458	105	440952	21.670	ug/l	100
74) N-amyl acetate	12.269	43	149690	21.170	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.708	83	107453	22.251	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	76438m	20.121	ug/l	
77) Bromobenzene	12.745	156	102986	21.376	ug/l	92
78) n-propylbenzene	12.800	91	559230	22.568	ug/l	100
79) 2-Chlorotoluene	12.891	91	340426	22.504	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	374042	22.281	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.507	75	33213	20.025	ug/l	92
82) 4-Chlorotoluene	12.989	91	355073	22.568	ug/l	100
83) tert-Butylbenzene	13.202	119	315255	21.588	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	383766	22.476	ug/l	100
85) sec-Butylbenzene	13.379	105	481804	22.154	ug/l	99
86) p-Isopropyltoluene	13.495	119	401289	22.347	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	205534	22.502	ug/l	97
88) 1,4-Dichlorobenzene	13.574	146	202383	21.627	ug/l	95
89) n-Butylbenzene	13.818	91	385664	21.984	ug/l	98
90) Hexachloroethane	14.086	117	71838	22.189	ug/l	96
91) 1,2-Dichlorobenzene	13.867	146	181954	21.700	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	16497	19.830	ug/l	96
93) 1,2,4-Trichlorobenzene	15.129	180	106304	19.922	ug/l	92
94) Hexachlorobutadiene	15.232	225	45508	20.531	ug/l	90
95) Naphthalene	15.360	128	256327	19.263	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	99190	20.475	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032471.D
Acq On : 18 Nov 2025 11:02
Operator : SY/MD
Sample : VW1118SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:25:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

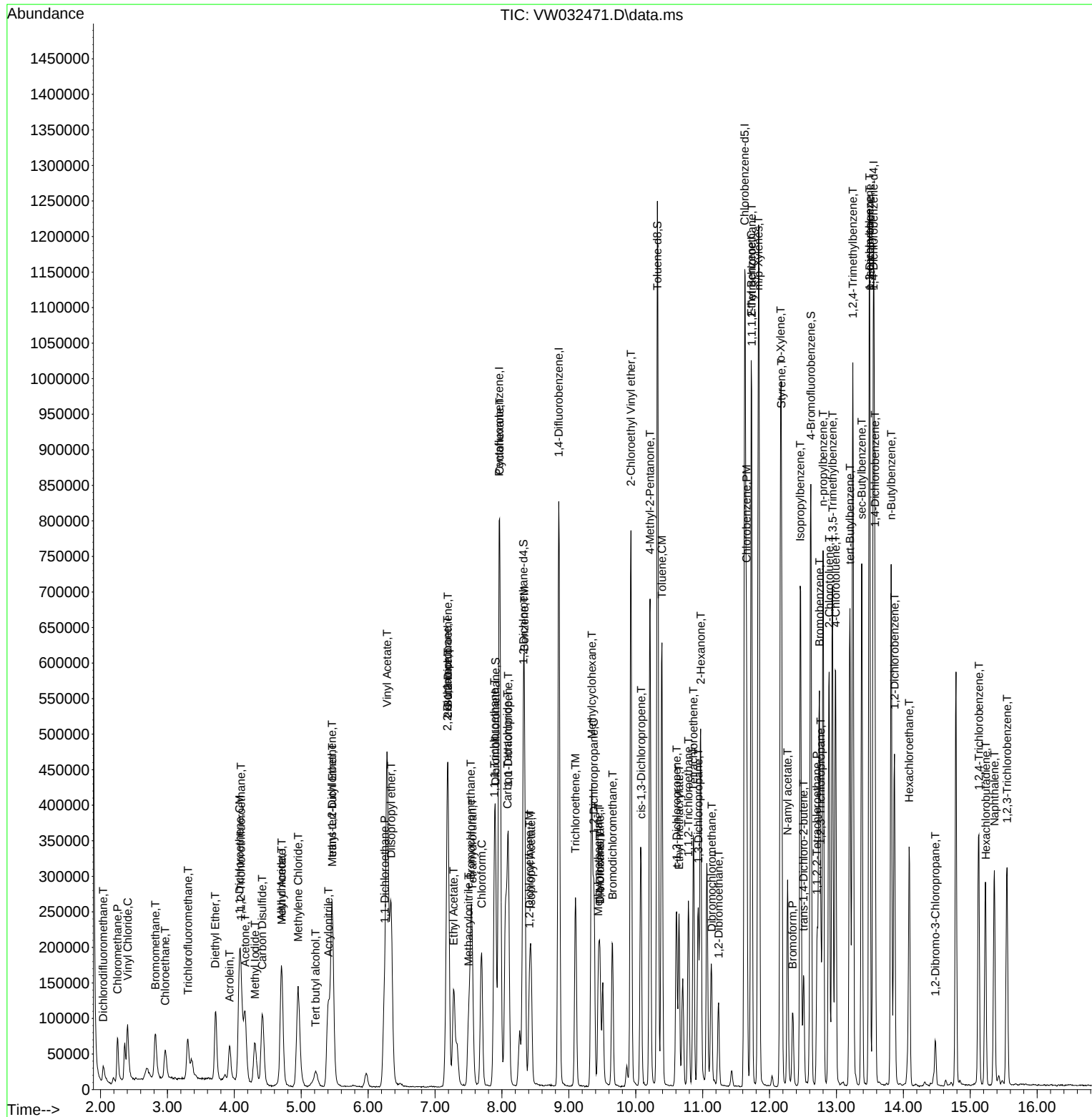
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBSD01

Manual Integrations

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Manual Integration Report

Sequence:	VW111025	Instrument	MSVOA_w
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VW032406.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:31 AM	sam	11/11/2025 12:29:21 PM	Peak Integrated by Software
VSTDICC005	VW032406.D	Dichlorodifluoromethane	Amit	11/11/2025 9:30:31 AM	sam	11/11/2025 12:29:21 PM	Peak Integrated by Software
VSTDICC010	VW032407.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:35 AM	sam	11/11/2025 12:29:25 PM	Peak Integrated by Software
VSTDICC010	VW032407.D	Dichlorodifluoromethane	Amit	11/11/2025 9:30:35 AM	sam	11/11/2025 12:29:25 PM	Peak Integrated by Software
VSTDICC020	VW032408.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:39 AM	sam	11/11/2025 12:30:15 PM	Peak Integrated by Software
VSTDICCC050	VW032409.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:43 AM	sam	11/11/2025 12:29:38 PM	Peak Integrated by Software
VSTDICC100	VW032410.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:48 AM	sam	11/11/2025 12:30:21 PM	Peak Integrated by Software
VSTDICC150	VW032411.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:52 AM	sam	11/11/2025 12:29:30 PM	Peak Integrated by Software
VSTDICV050	VW032413.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:57 AM	sam	11/11/2025 12:29:34 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VW111825	Instrument	MSVOA_w
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW032468.D	1,2,3-Trichloropropane	Amit	11/19/2025 10:30:14 AM	MMDadoda	11/19/2025 11:20:14 AM	Peak Integrated by Software
VW1118SBS01	VW032470.D	1,2,3-Trichloropropane	Amit	11/19/2025 10:30:18 AM	MMDadoda	11/19/2025 11:20:17 AM	Peak Integrated by Software
VW1118SBSD0 1	VW032471.D	1,2,3-Trichloropropane	Amit	11/19/2025 10:30:23 AM	MMDadoda	11/19/2025 11:20:20 AM	Peak Integrated by Software
VSTDCCC050	VW032488.D	1,2,3-Trichloropropane	Amit	11/19/2025 10:30:27 AM	MMDadoda	11/19/2025 11:20:25 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VW111925	Instrument	MSVOA_w
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW032490.D	1,2,3-Trichloropropane	Amit	11/20/2025 8:22:40 AM	MMDadoda	11/20/2025 10:02:19 AM	Peak Integrated by Software
VW1119SBS01	VW032492.D	1,2,3-Trichloropropane	Amit	11/20/2025 8:22:45 AM	MMDadoda	11/20/2025 10:02:23 AM	Peak Integrated by Software
VSTDCCC050	VW032509.D	1,2,3-Trichloropropane	Amit	11/20/2025 8:22:58 AM	MMDadoda	11/20/2025 10:02:37 AM	Peak Integrated by Software

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QCBatch ID # VW111025

Review By	Amit Patel	Review On	11/11/2025 7:21:42 AM		
Supervise By	Maresh Dadoda	Supervise On	11/17/2025 1:37:22 PM		
SubDirectory	VW111025	HP Acquire Method	VP134934	HP Processing Method	82w111025s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP136122			
Initial Calibration Stds		VP136123,VP136124,VP136125,VP136126,VP136127,VP136128			
CCC					
Internal Standard/PEM		VP133934			
ICV/I.BLK		VP136129			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032405.D	10 Nov 2025 14:20	SY/MD	Ok
2	VSTDICC005	VW032406.D	10 Nov 2025 15:11	SY/MD	Ok,M
3	VSTDICC010	VW032407.D	10 Nov 2025 15:33	SY/MD	Ok,M
4	VSTDICC020	VW032408.D	10 Nov 2025 15:55	SY/MD	Ok,M
5	VSTDICCC050	VW032409.D	10 Nov 2025 16:17	SY/MD	Ok,M
6	VSTDICC100	VW032410.D	10 Nov 2025 16:39	SY/MD	Ok,M
7	VSTDICC150	VW032411.D	10 Nov 2025 17:00	SY/MD	Ok,M
8	VIBLK	VW032412.D	10 Nov 2025 17:22	SY/MD	Ok
9	VSTDICV050	VW032413.D	10 Nov 2025 17:44	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW111825

Review By	Amit Patel	Review On	11/19/2025 10:30:41 AM		
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 11:20:35 AM		
SubDirectory	VW111825	HP Acquire Method	MSVOA_W	HP Processing Method	82w111025s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136296			
CCC		VP136299,VP136300			
Internal Standard/PEM		VP136146			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032467.D	18 Nov 2025 09:15	SY/MD	Ok
2	VSTDCCC050	VW032468.D	18 Nov 2025 09:46	SY/MD	Ok,M
3	VW1118SBL01	VW032469.D	18 Nov 2025 10:13	SY/MD	Ok
4	VW1118SBS01	VW032470.D	18 Nov 2025 10:40	SY/MD	Ok,M
5	VW1118SBSD01	VW032471.D	18 Nov 2025 11:02	SY/MD	Ok,M
6	Q3658-01	VW032472.D	18 Nov 2025 11:50	SY/MD	Ok
7	Q3656-01	VW032473.D	18 Nov 2025 12:12	SY/MD	Ok
8	Q3633-05	VW032474.D	18 Nov 2025 12:34	SY/MD	Ok
9	Q3641-01RE	VW032475.D	18 Nov 2025 12:56	SY/MD	Confirms
10	Q3638-01	VW032476.D	18 Nov 2025 13:18	SY/MD	Ok
11	Q3638-03	VW032477.D	18 Nov 2025 13:40	SY/MD	Ok
12	Q3640-03	VW032478.D	18 Nov 2025 14:02	SY/MD	Ok
13	Q3661-02	VW032479.D	18 Nov 2025 14:24	SY/MD	ReRun
14	Q3652-03	VW032480.D	18 Nov 2025 14:46	SY/MD	Ok
15	Q3649-02	VW032481.D	18 Nov 2025 15:08	SY/MD	ReRun
16	Q3649-04	VW032482.D	18 Nov 2025 15:30	SY/MD	ReRun
17	Q3649-05	VW032483.D	18 Nov 2025 15:52	SY/MD	Ok
18	Q3649-09	VW032484.D	18 Nov 2025 16:14	SY/MD	Ok
19	Q3662-01	VW032485.D	18 Nov 2025 16:36	SY/MD	Ok
20	Q3662-03	VW032486.D	18 Nov 2025 16:58	SY/MD	Ok
21	VIBLK	VW032487.D	18 Nov 2025 17:20	SY/MD	Ok

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW111825

Review By	Amit Patel	Review On	11/19/2025 10:30:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 11:20:35 AM		
SubDirectory	VW111825	HP Acquire Method	MSVOA_W	HP Processing Method	82w111025s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136296			
CCC		VP136299,VP136300			
Internal Standard/PEM		VP136146			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VSTDCCC050	VW032488.D	18 Nov 2025 17:43	SY/MD	Ok,M
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M : Manual Integration

A
B
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G
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I
J

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QCBatch ID # VW111925

Review By	Amit Patel	Review On	11/20/2025 8:23:16 AM		
Supervise By	Maresh Dadoda	Supervise On	11/20/2025 10:02:48 AM		
SubDirectory	VW111925	HP Acquire Method	MSVOA_W	HP Processing Method	82w111025s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136334			
CCC		VP136335,VP136336			
Internal Standard/PEM		VP136146			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032489.D	19 Nov 2025 09:32	SY/MD	Ok
2	VSTDCCC050	VW032490.D	19 Nov 2025 10:01	SY/MD	Ok,M
3	VW1119SBL01	VW032491.D	19 Nov 2025 10:36	SY/MD	Ok
4	VW1119SBS01	VW032492.D	19 Nov 2025 11:11	SY/MD	Ok,M
5	VW1119SBSD01	VW032493.D	19 Nov 2025 11:33	SY/MD	Ok,M
6	Q3619-17	VW032494.D	19 Nov 2025 12:08	SY/MD	Ok
7	VIBLK	VW032495.D	19 Nov 2025 12:30	SY/MD	Ok
8	Q3649-02	VW032496.D	19 Nov 2025 12:52	SY/MD	Ok
9	Q3649-04	VW032497.D	19 Nov 2025 13:14	SY/MD	Ok
10	Q3661-02RE	VW032498.D	19 Nov 2025 13:36	SY/MD	Confirms
11	Q3669-01	VW032499.D	19 Nov 2025 13:58	SY/MD	Ok,M
12	Q3664-01	VW032500.D	19 Nov 2025 14:20	SY/MD	Ok
13	Q3664-03	VW032501.D	19 Nov 2025 14:42	SY/MD	ReRun
14	Q3664-05	VW032502.D	19 Nov 2025 15:04	SY/MD	Ok
15	Q3619-03	VW032503.D	19 Nov 2025 15:26	SY/MD	Ok
16	Q3619-04	VW032504.D	19 Nov 2025 15:49	SY/MD	Ok
17	Q3619-09	VW032505.D	19 Nov 2025 16:10	SY/MD	Ok
18	Q3619-14	VW032506.D	19 Nov 2025 16:32	SY/MD	Ok
19	Q3619-18	VW032507.D	19 Nov 2025 16:53	SY/MD	Ok
20	VIBLK	VW032508.D	19 Nov 2025 17:16	SY/MD	Ok
21	VSTDCCC050	VW032509.D	19 Nov 2025 17:37	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111025

Review By	Amit Patel	Review On	11/11/2025 7:21:42 AM
Supervise By	Maresh Dadoda	Supervise On	11/17/2025 1:37:22 PM
SubDirectory	VW111025	HP Acquire Method	VP134934 HP Processing Method 82w111025s.m

STD. NAME	STD REF.#
Tune/Reschk	VP136122
Initial Calibration Stds	VP136123,VP136124,VP136125,VP136126,VP136127,VP136128
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP136129
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032405.D	10 Nov 2025 14:20		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VW032406.D	10 Nov 2025 15:11		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VW032407.D	10 Nov 2025 15:33		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VW032408.D	10 Nov 2025 15:55		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VW032409.D	10 Nov 2025 16:17		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VW032410.D	10 Nov 2025 16:39		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VW032411.D	10 Nov 2025 17:00		SY/MD	Ok,M
8	VIBLK	VIBLK	VW032412.D	10 Nov 2025 17:22		SY/MD	Ok
9	VSTDICV050	ICVVW111025	VW032413.D	10 Nov 2025 17:44		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111825

Review By	Amit Patel	Review On	11/19/2025 10:30:41 AM
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 11:20:35 AM
SubDirectory	VW111825	HP Acquire Method	MSVOA_W HP Processing Method 82w111025s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136296		
CCC	VP136299,VP136300		
Internal Standard/PEM	VP136146		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032467.D	18 Nov 2025 09:15		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW032468.D	18 Nov 2025 09:46		SY/MD	Ok,M
3	VW1118SBL01	VW1118SBL01	VW032469.D	18 Nov 2025 10:13		SY/MD	Ok
4	VW1118SBS01	VW1118SBS01	VW032470.D	18 Nov 2025 10:40		SY/MD	Ok,M
5	VW1118SBSD01	VW1118SBSD01	VW032471.D	18 Nov 2025 11:02		SY/MD	Ok,M
6	Q3658-01	NB-07-111725	VW032472.D	18 Nov 2025 11:50	vial-A	SY/MD	Ok
7	Q3656-01	T2-GRAVEL	VW032473.D	18 Nov 2025 12:12	vial-A	SY/MD	Ok
8	Q3633-05	ETGI-368	VW032474.D	18 Nov 2025 12:34	vial-B	SY/MD	Ok
9	Q3641-01RE	TR-05-111325RE	VW032475.D	18 Nov 2025 12:56	vial-B Surrogate Fail	SY/MD	Confirms
10	Q3638-01	MOO-25-0327	VW032476.D	18 Nov 2025 13:18	vial-A	SY/MD	Ok
11	Q3638-03	MOO-25-0328	VW032477.D	18 Nov 2025 13:40	vial-A	SY/MD	Ok
12	Q3640-03	LAW-25-0182	VW032478.D	18 Nov 2025 14:02	vial-A	SY/MD	Ok
13	Q3661-02	VOC	VW032479.D	18 Nov 2025 14:24	vial-A Internal Standard Fail	SY/MD	ReRun
14	Q3652-03	TP-1-VOC	VW032480.D	18 Nov 2025 14:46	vial-A	SY/MD	Ok
15	Q3649-02	B5-0.5-1.0-20251114	VW032481.D	18 Nov 2025 15:08	vial-A Surrogate Fail	SY/MD	ReRun
16	Q3649-04	DUPE-0.5-1.0-20251114	VW032482.D	18 Nov 2025 15:30	vial-A Surrogate Fail	SY/MD	ReRun
17	Q3649-05	B4-0.05-1.0-20251114	VW032483.D	18 Nov 2025 15:52	vial-A	SY/MD	Ok
18	Q3649-09	B3-0.5-1.0-20251114	VW032484.D	18 Nov 2025 16:14	vial-A	SY/MD	Ok

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW111825

Review By	Amit Patel	Review On	11/19/2025 10:30:41 AM
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 11:20:35 AM
SubDirectory	VW111825	HP Acquire Method	MSVOA_W HP Processing Method 82w111025s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136296		
CCC	VP136299,VP136300		
Internal Standard/PEM	VP136146		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q3662-01	B3-0.5-1.0-20251117	VW032485.D	18 Nov 2025 16:36	vial-A	SY/MD	Ok
20	Q3662-03	B1-0.5-1.0-20251117	VW032486.D	18 Nov 2025 16:58	vial-A	SY/MD	Ok
21	VIBLK	VIBLK	VW032487.D	18 Nov 2025 17:20		SY/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VW032488.D	18 Nov 2025 17:43		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111925

Review By	Amit Patel	Review On	11/20/2025 8:23:16 AM
Supervise By	Mahesh Dadoda	Supervise On	11/20/2025 10:02:48 AM
SubDirectory	VW111925	HP Acquire Method	MSVOA_W HP Processing Method 82w111025s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136334		
CCC	VP136335,VP136336		
Internal Standard/PEM	VP136146		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032489.D	19 Nov 2025 09:32		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW032490.D	19 Nov 2025 10:01		SY/MD	Ok,M
3	VW1119SBL01	VW1119SBL01	VW032491.D	19 Nov 2025 10:36		SY/MD	Ok
4	VW1119SBS01	VW1119SBS01	VW032492.D	19 Nov 2025 11:11		SY/MD	Ok,M
5	VW1119SBSD01	VW1119SBSD01	VW032493.D	19 Nov 2025 11:33		SY/MD	Ok,M
6	Q3619-17	GP-B4(8-12)	VW032494.D	19 Nov 2025 12:08	vial-A	SY/MD	Ok
7	VIBLK	VIBLK	VW032495.D	19 Nov 2025 12:30		SY/MD	Ok
8	Q3649-02	B5-0.5-1.0-20251114	VW032496.D	19 Nov 2025 12:52	vial-B	SY/MD	Ok
9	Q3649-04	DUPE-0.5-1.0-20251114	VW032497.D	19 Nov 2025 13:14	vial-B	SY/MD	Ok
10	Q3661-02RE	VOCRE	VW032498.D	19 Nov 2025 13:36	vial-B Internal Standard Fail	SY/MD	Confirms
11	Q3669-01	EO-01-11182025	VW032499.D	19 Nov 2025 13:58	vial-A	SY/MD	Ok,M
12	Q3664-01	ARS20-0001	VW032500.D	19 Nov 2025 14:20	vial-A	SY/MD	Ok
13	Q3664-03	ARS20-0013	VW032501.D	19 Nov 2025 14:42	vial-A Surrogate Fail	SY/MD	ReRun
14	Q3664-05	291399	VW032502.D	19 Nov 2025 15:04	vial-A	SY/MD	Ok
15	Q3619-03	GP-B1(8-12)	VW032503.D	19 Nov 2025 15:26	vial-A	SY/MD	Ok
16	Q3619-04	GP-B1(12-16)	VW032504.D	19 Nov 2025 15:49	vial-A	SY/MD	Ok
17	Q3619-09	GP-B2(12-16)	VW032505.D	19 Nov 2025 16:10	vial-A	SY/MD	Ok
18	Q3619-14	GP-B3(13.2)	VW032506.D	19 Nov 2025 16:32	vial-A	SY/MD	Ok

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111925

Review By	Amit Patel	Review On	11/20/2025 8:23:16 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/20/2025 10:02:48 AM		
SubDirectory	VW111925	HP Acquire Method	MSVOA_W	HP Processing Method	82w111025s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP136334
CCC	VP136335,VP136336
Internal Standard/PEM	VP136146
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3619-18	GP-B4(13.2)	VW032507.D	19 Nov 2025 16:53	vial-A	SY/MD	Ok
20	VIBLK	VIBLK	VW032508.D	19 Nov 2025 17:16		SY/MD	Ok
21	VSTDCCC050	VSTDCCC050EC	VW032509.D	19 Nov 2025 17:37		SY/MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q3649	OrderDate:	11/14/2025 3:02:13 PM
Client:	HDR, Inc.	Project:	PVWC Linear Construction
Contact:	Andrew Wadden	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3649-02	B5-0.5-1.0-20251114	SOIL	VOC-TCLVOA-10	8260D	11/14/25		11/19/25	11/14/25
Q3649-04	DUPE-0.5-1.0-20251114	SOIL	VOC-TCLVOA-10	8260D	11/14/25		11/19/25	11/14/25
Q3649-05	B4-0.05-1.0-20251114	SOIL	VOC-TCLVOA-10	8260D	11/14/25		11/18/25	11/14/25
Q3649-09	B3-0.5-1.0-20251114	SOIL	VOC-TCLVOA-10	8260D	11/14/25		11/18/25	11/14/25