



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

SDG No.: Q3662
Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID: 0

Total Voc :
Total Concentration:

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J



SAMPLE DATA

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: B3-0.5-1.0-20251117
 Lab Sample ID: Q3662-01
 Analytical Method: 8260D
 Sample Wt/Vol: 6.4 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/17/25
 Date Received: 11/18/25
 SDG No.: Q3662
 Matrix: SOIL
 % Solid: 91.2
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.98	U	1	0.98	4.30	ug/Kg	11/18/25 16:36	VW111825
74-87-3	Chloromethane	0.98	U	1	0.98	4.30	ug/Kg	11/18/25 16:36	VW111825
75-01-4	Vinyl Chloride	0.68	U	1	0.68	4.30	ug/Kg	11/18/25 16:36	VW111825
74-83-9	Bromomethane	0.92	U	1	0.92	4.30	ug/Kg	11/18/25 16:36	VW111825
75-00-3	Chloroethane	1.10	U	1	1.10	4.30	ug/Kg	11/18/25 16:36	VW111825
75-69-4	Trichlorofluoromethane	1.00	U	1	1.00	4.30	ug/Kg	11/18/25 16:36	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	0.91	U	1	0.91	4.30	ug/Kg	11/18/25 16:36	VW111825
75-35-4	1,1-Dichloroethene	0.86	U	1	0.86	4.30	ug/Kg	11/18/25 16:36	VW111825
67-64-1	Acetone	4.10	U	1	4.10	21.4	ug/Kg	11/18/25 16:36	VW111825
75-15-0	Carbon Disulfide	0.91	U	1	0.91	4.30	ug/Kg	11/18/25 16:36	VW111825
1634-04-4	Methyl tert-butyl Ether	0.63	U	1	0.63	4.30	ug/Kg	11/18/25 16:36	VW111825
79-20-9	Methyl Acetate	1.30	U	1	1.30	4.30	ug/Kg	11/18/25 16:36	VW111825
75-09-2	Methylene Chloride	3.00	U	1	3.00	8.60	ug/Kg	11/18/25 16:36	VW111825
156-60-5	trans-1,2-Dichloroethene	0.74	U	1	0.74	4.30	ug/Kg	11/18/25 16:36	VW111825
75-34-3	1,1-Dichloroethane	0.69	U	1	0.69	4.30	ug/Kg	11/18/25 16:36	VW111825
110-82-7	Cyclohexane	0.68	U	1	0.68	4.30	ug/Kg	11/18/25 16:36	VW111825
78-93-3	2-Butanone	5.60	U	1	5.60	21.4	ug/Kg	11/18/25 16:36	VW111825
56-23-5	Carbon Tetrachloride	0.83	U	1	0.83	4.30	ug/Kg	11/18/25 16:36	VW111825
156-59-2	cis-1,2-Dichloroethene	0.64	U	1	0.64	4.30	ug/Kg	11/18/25 16:36	VW111825
74-97-5	Bromochloromethane	0.99	U	1	0.99	4.30	ug/Kg	11/18/25 16:36	VW111825
67-66-3	Chloroform	0.72	U	1	0.72	4.30	ug/Kg	11/18/25 16:36	VW111825
71-55-6	1,1,1-Trichloroethane	0.80	U	1	0.80	4.30	ug/Kg	11/18/25 16:36	VW111825
108-87-2	Methylcyclohexane	0.78	U	1	0.78	4.30	ug/Kg	11/18/25 16:36	VW111825
71-43-2	Benzene	0.68	U	1	0.68	4.30	ug/Kg	11/18/25 16:36	VW111825
107-06-2	1,2-Dichloroethane	0.68	U	1	0.68	4.30	ug/Kg	11/18/25 16:36	VW111825
79-01-6	Trichloroethene	0.69	U	1	0.69	4.30	ug/Kg	11/18/25 16:36	VW111825
78-87-5	1,2-Dichloropropane	0.78	U	1	0.78	4.30	ug/Kg	11/18/25 16:36	VW111825
75-27-4	Bromodichloromethane	0.67	U	1	0.67	4.30	ug/Kg	11/18/25 16:36	VW111825
108-10-1	4-Methyl-2-Pentanone	3.10	U	1	3.10	21.4	ug/Kg	11/18/25 16:36	VW111825
108-88-3	Toluene	0.67	U	1	0.67	4.30	ug/Kg	11/18/25 16:36	VW111825
10061-02-6	t-1,3-Dichloropropene	0.56	U	1	0.56	4.30	ug/Kg	11/18/25 16:36	VW111825
10061-01-5	cis-1,3-Dichloropropene	0.53	U	1	0.53	4.30	ug/Kg	11/18/25 16:36	VW111825
79-00-5	1,1,2-Trichloroethane	0.79	U	1	0.79	4.30	ug/Kg	11/18/25 16:36	VW111825
591-78-6	2-Hexanone	3.20	U	1	3.20	21.4	ug/Kg	11/18/25 16:36	VW111825
124-48-1	Dibromochloromethane	0.75	U	1	0.75	4.30	ug/Kg	11/18/25 16:36	VW111825
106-93-4	1,2-Dibromoethane	0.75	U	1	0.75	4.30	ug/Kg	11/18/25 16:36	VW111825
127-18-4	Tetrachloroethene	0.90	U	1	0.90	4.30	ug/Kg	11/18/25 16:36	VW111825
108-90-7	Chlorobenzene	0.78	U	1	0.78	4.30	ug/Kg	11/18/25 16:36	VW111825
100-41-4	Ethyl Benzene	0.57	U	1	0.57	4.30	ug/Kg	11/18/25 16:36	VW111825
179601-23-1	m/p-Xylenes	1.10	U	1	1.10	8.60	ug/Kg	11/18/25 16:36	VW111825
95-47-6	o-Xylene	0.70	U	1	0.70	4.30	ug/Kg	11/18/25 16:36	VW111825
100-42-5	Styrene	0.61	U	1	0.61	4.30	ug/Kg	11/18/25 16:36	VW111825
75-25-2	Bromoform	0.74	U	1	0.74	4.30	ug/Kg	11/18/25 16:36	VW111825

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: B3-0.5-1.0-20251117
 Lab Sample ID: Q3662-01
 Analytical Method: 8260D
 Sample Wt/Vol: 6.4 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/17/25
 Date Received: 11/18/25
 SDG No.: Q3662
 Matrix: SOIL
 % Solid: 91.2
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.67	U	1	0.67	4.30	ug/Kg	11/18/25 16:36	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1	1.00	4.30	ug/Kg	11/18/25 16:36	VW111825
541-73-1	1,3-Dichlorobenzene	1.50	U	1	1.50	4.30	ug/Kg	11/18/25 16:36	VW111825
106-46-7	1,4-Dichlorobenzene	1.30	U	1	1.30	4.30	ug/Kg	11/18/25 16:36	VW111825
95-50-1	1,2-Dichlorobenzene	1.20	U	1	1.20	4.30	ug/Kg	11/18/25 16:36	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1	1.60	4.30	ug/Kg	11/18/25 16:36	VW111825
120-82-1	1,2,4-Trichlorobenzene	2.50	U	1	2.50	4.30	ug/Kg	11/18/25 16:36	VW111825
87-61-6	1,2,3-Trichlorobenzene	2.70	U	1	2.70	4.30	ug/Kg	11/18/25 16:36	VW111825

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	55.3			70 (63) - 130 (155)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5			70 (70) - 130 (134)	95%	SPK: 50
2037-26-5	Toluene-d8	43.5			70 (74) - 130 (123)	87%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1			70 (52) - 130 (138)	104%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	225000
540-36-3	1,4-Difluorobenzene	534000
3114-55-4	Chlorobenzene-d5	545000
3855-82-1	1,4-Dichlorobenzene-d4	237000

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: B1-0.5-1.0-20251117
 Lab Sample ID: Q3662-03
 Analytical Method: 8260D
 Sample Wt/Vol: 6.12 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/17/25
 Date Received: 11/18/25
 SDG No.: Q3662
 Matrix: SOIL
 % Solid: 92.6
 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	4.40	ug/Kg	11/18/25 16:58	VW111825
74-87-3	Chloromethane	1.00	U	1	1.00	4.40	ug/Kg	11/18/25 16:58	VW111825
75-01-4	Vinyl Chloride	0.70	U	1	0.70	4.40	ug/Kg	11/18/25 16:58	VW111825
74-83-9	Bromomethane	0.94	U	1	0.94	4.40	ug/Kg	11/18/25 16:58	VW111825
75-00-3	Chloroethane	1.10	U	1	1.10	4.40	ug/Kg	11/18/25 16:58	VW111825
75-69-4	Trichlorofluoromethane	1.10	U	1	1.10	4.40	ug/Kg	11/18/25 16:58	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	0.94	U	1	0.94	4.40	ug/Kg	11/18/25 16:58	VW111825
75-35-4	1,1-Dichloroethene	0.88	U	1	0.88	4.40	ug/Kg	11/18/25 16:58	VW111825
67-64-1	Acetone	4.20	U	1	4.20	22.1	ug/Kg	11/18/25 16:58	VW111825
75-15-0	Carbon Disulfide	0.94	U	1	0.94	4.40	ug/Kg	11/18/25 16:58	VW111825
1634-04-4	Methyl tert-butyl Ether	0.64	U	1	0.64	4.40	ug/Kg	11/18/25 16:58	VW111825
79-20-9	Methyl Acetate	1.40	U	1	1.40	4.40	ug/Kg	11/18/25 16:58	VW111825
75-09-2	Methylene Chloride	3.10	U	1	3.10	8.80	ug/Kg	11/18/25 16:58	VW111825
156-60-5	trans-1,2-Dichloroethene	0.76	U	1	0.76	4.40	ug/Kg	11/18/25 16:58	VW111825
75-34-3	1,1-Dichloroethane	0.71	U	1	0.71	4.40	ug/Kg	11/18/25 16:58	VW111825
110-82-7	Cyclohexane	0.70	U	1	0.70	4.40	ug/Kg	11/18/25 16:58	VW111825
78-93-3	2-Butanone	5.80	U	1	5.80	22.1	ug/Kg	11/18/25 16:58	VW111825
56-23-5	Carbon Tetrachloride	0.86	U	1	0.86	4.40	ug/Kg	11/18/25 16:58	VW111825
156-59-2	cis-1,2-Dichloroethene	0.66	U	1	0.66	4.40	ug/Kg	11/18/25 16:58	VW111825
74-97-5	Bromochloromethane	1.00	U	1	1.00	4.40	ug/Kg	11/18/25 16:58	VW111825
67-66-3	Chloroform	0.74	U	1	0.74	4.40	ug/Kg	11/18/25 16:58	VW111825
71-55-6	1,1,1-Trichloroethane	0.82	U	1	0.82	4.40	ug/Kg	11/18/25 16:58	VW111825
108-87-2	Methylcyclohexane	0.80	U	1	0.80	4.40	ug/Kg	11/18/25 16:58	VW111825
71-43-2	Benzene	0.70	U	1	0.70	4.40	ug/Kg	11/18/25 16:58	VW111825
107-06-2	1,2-Dichloroethane	0.70	U	1	0.70	4.40	ug/Kg	11/18/25 16:58	VW111825
79-01-6	Trichloroethene	0.71	U	1	0.71	4.40	ug/Kg	11/18/25 16:58	VW111825
78-87-5	1,2-Dichloropropane	0.80	U	1	0.80	4.40	ug/Kg	11/18/25 16:58	VW111825
75-27-4	Bromodichloromethane	0.69	U	1	0.69	4.40	ug/Kg	11/18/25 16:58	VW111825
108-10-1	4-Methyl-2-Pentanone	3.20	U	1	3.20	22.1	ug/Kg	11/18/25 16:58	VW111825
108-88-3	Toluene	0.69	U	1	0.69	4.40	ug/Kg	11/18/25 16:58	VW111825
10061-02-6	t-1,3-Dichloropropene	0.57	U	1	0.57	4.40	ug/Kg	11/18/25 16:58	VW111825
10061-01-5	cis-1,3-Dichloropropene	0.55	U	1	0.55	4.40	ug/Kg	11/18/25 16:58	VW111825
79-00-5	1,1,2-Trichloroethane	0.81	U	1	0.81	4.40	ug/Kg	11/18/25 16:58	VW111825
591-78-6	2-Hexanone	3.30	U	1	3.30	22.1	ug/Kg	11/18/25 16:58	VW111825
124-48-1	Dibromochloromethane	0.77	U	1	0.77	4.40	ug/Kg	11/18/25 16:58	VW111825
106-93-4	1,2-Dibromoethane	0.78	U	1	0.78	4.40	ug/Kg	11/18/25 16:58	VW111825
127-18-4	Tetrachloroethene	0.93	U	1	0.93	4.40	ug/Kg	11/18/25 16:58	VW111825
108-90-7	Chlorobenzene	0.80	U	1	0.80	4.40	ug/Kg	11/18/25 16:58	VW111825
100-41-4	Ethyl Benzene	0.59	U	1	0.59	4.40	ug/Kg	11/18/25 16:58	VW111825
179601-23-1	m/p-Xylenes	1.10	U	1	1.10	8.80	ug/Kg	11/18/25 16:58	VW111825
95-47-6	o-Xylene	0.72	U	1	0.72	4.40	ug/Kg	11/18/25 16:58	VW111825
100-42-5	Styrene	0.63	U	1	0.63	4.40	ug/Kg	11/18/25 16:58	VW111825
75-25-2	Bromoform	0.76	U	1	0.76	4.40	ug/Kg	11/18/25 16:58	VW111825

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: B1-0.5-1.0-20251117
 Lab Sample ID: Q3662-03
 Analytical Method: 8260D
 Sample Wt/Vol: 6.12 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/17/25
 Date Received: 11/18/25
 SDG No.: Q3662
 Matrix: SOIL
 % Solid: 92.6
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.69	U	1	0.69	4.40	ug/Kg	11/18/25 16:58	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1	1.10	4.40	ug/Kg	11/18/25 16:58	VW111825
541-73-1	1,3-Dichlorobenzene	1.50	U	1	1.50	4.40	ug/Kg	11/18/25 16:58	VW111825
106-46-7	1,4-Dichlorobenzene	1.40	U	1	1.40	4.40	ug/Kg	11/18/25 16:58	VW111825
95-50-1	1,2-Dichlorobenzene	1.30	U	1	1.30	4.40	ug/Kg	11/18/25 16:58	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1	1.60	4.40	ug/Kg	11/18/25 16:58	VW111825
120-82-1	1,2,4-Trichlorobenzene	2.60	U	1	2.60	4.40	ug/Kg	11/18/25 16:58	VW111825
87-61-6	1,2,3-Trichlorobenzene	2.80	U	1	2.80	4.40	ug/Kg	11/18/25 16:58	VW111825

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	57.3			70 (63) - 130 (155)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7			70 (70) - 130 (134)	95%	SPK: 50
2037-26-5	Toluene-d8	44.4			70 (74) - 130 (123)	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.1			70 (52) - 130 (138)	112%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	221000
540-36-3	1,4-Difluorobenzene	524000
3114-55-4	Chlorobenzene-d5	583000
3855-82-1	1,4-Dichlorobenzene-d4	283000

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.: **Q3662**

Client: **HDR, Inc.**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3662-01	B3-0.5-1.0-20251117	1,2-Dichloroethane-d4	50	55.3	111		70 (63)	130 (155)
		Dibromofluoromethane	50	47.5	95		70 (70)	130 (134)
		Toluene-d8	50	43.5	87		70 (74)	130 (123)
		4-Bromofluorobenzene	50	52.1	104		70 (52)	130 (138)
Q3662-03	B1-0.5-1.0-20251117	1,2-Dichloroethane-d4	50	57.3	115		70 (63)	130 (155)
		Dibromofluoromethane	50	47.8	95		70 (70)	130 (134)
		Toluene-d8	50	44.4	89		70 (74)	130 (123)
		4-Bromofluorobenzene	50	56.1	112		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)
VW1118BSD0	VW1118BSD01	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)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3662</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>Q3662</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

SW-846

SDG No.: Q3662 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>Q3662</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)

VOLATILE METHOD BLANK SUMMARY

Client ID

VW1118SBL01

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3662

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
B3-0.5-1.0-20251117	Q3662-01	VW032485.D	11/18/2025
B1-0.5-1.0-20251117	Q3662-03	VW032486.D	11/18/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3662

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.: Q3662

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
B3-0.5-1.0-20251117	Q3662-01	VW032485.D	11/18/2025	16:36
B1-0.5-1.0-20251117	Q3662-03	VW032486.D	11/18/2025	16:58

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3662</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>

	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.						
B3-0.5-1.0-20251117	225287	7.97	534048	8.85	544672	11.63
B1-0.5-1.0-20251117	221426	7.97	523942	8.85	582743	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>Q3662</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.						
B3-0.5-1.0-20251117	237264	13.56				
B1-0.5-1.0-20251117	283484	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.



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.: Q3662
 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.: Q3662
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: 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.: Q3662
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.: Q3662
 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: 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.: Q3662
 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.: Q3662
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>Q3662</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>Q3662</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>Q3662</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>Q3662</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
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.



SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251117

Quant Time: Nov 19 00:29:55 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	225287	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	534048	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	544672	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	237264	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	160596	55.292	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	110.580%
35) Dibromofluoromethane	7.898	113	152037	47.549	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	95.100%
50) Toluene-d8	10.325	98	533491	43.491	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	86.980%
62) 4-Bromofluorobenzene	12.617	95	241626	52.144	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	104.280%

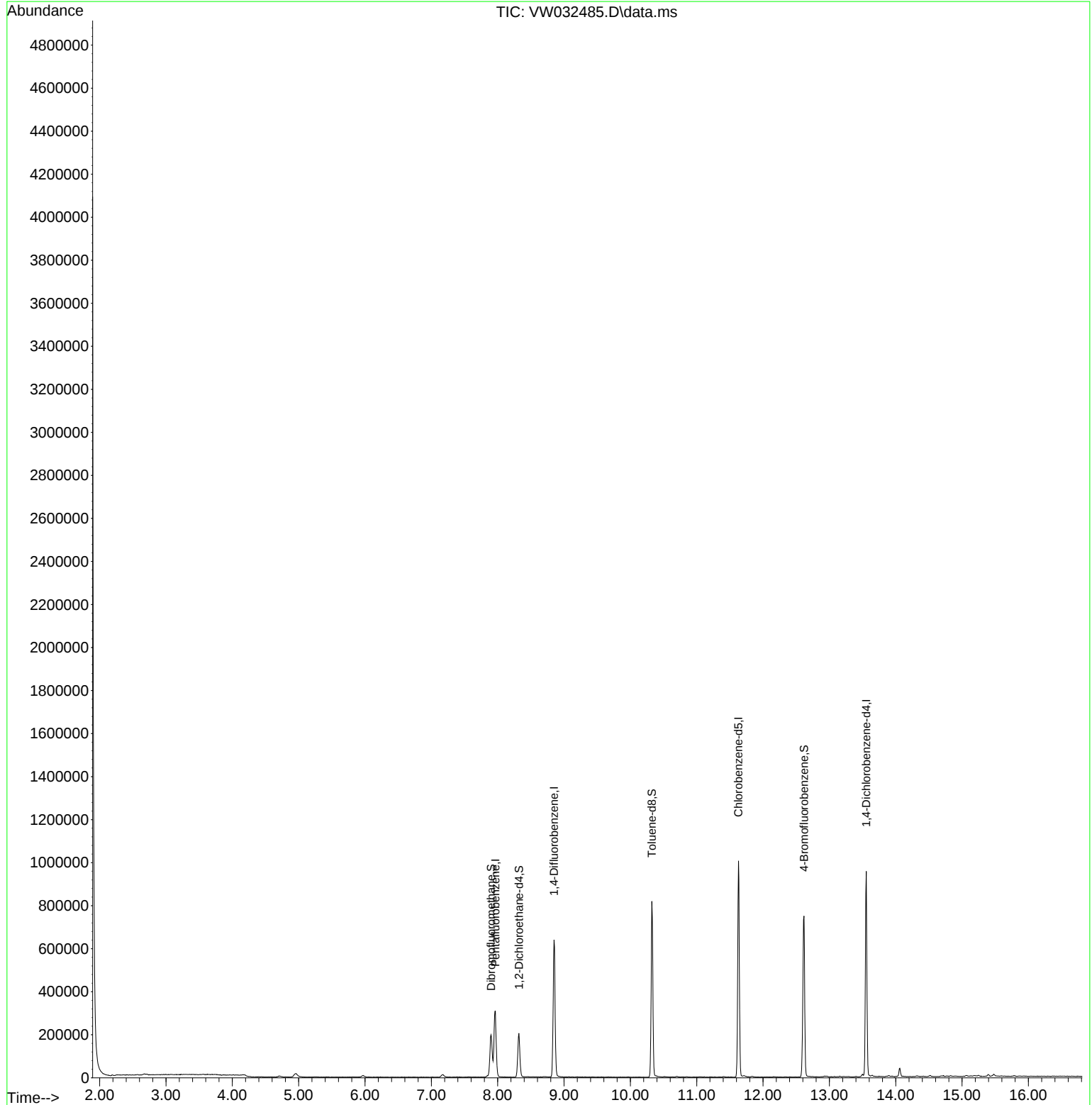
Target Compounds	Qvalue

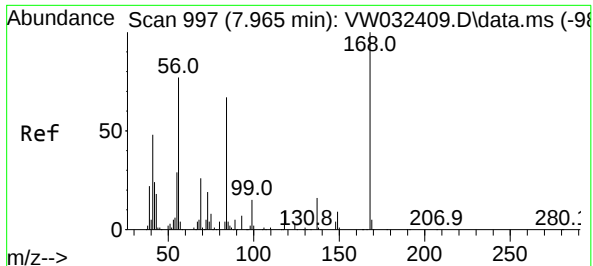
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251117

Quant Time: Nov 19 00:29:55 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

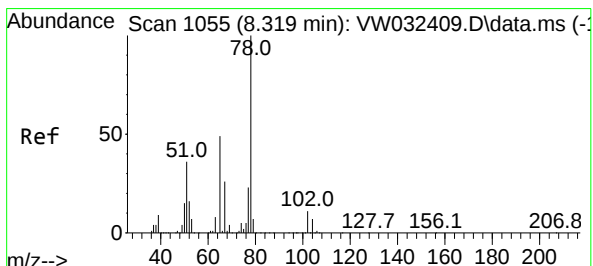
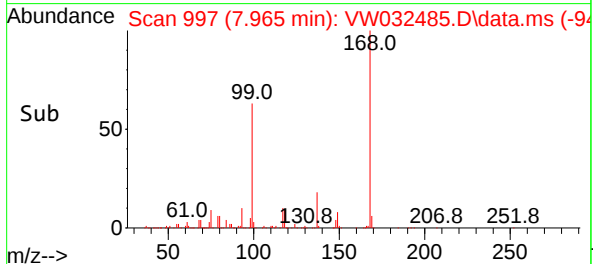
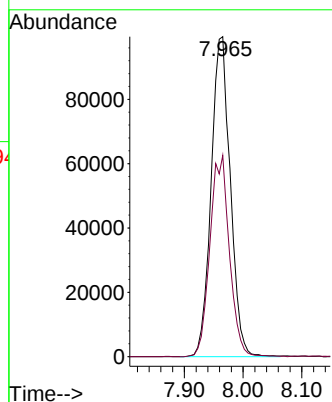
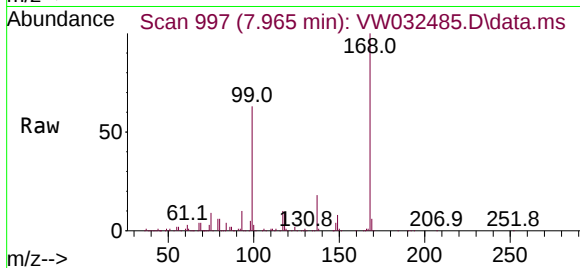




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

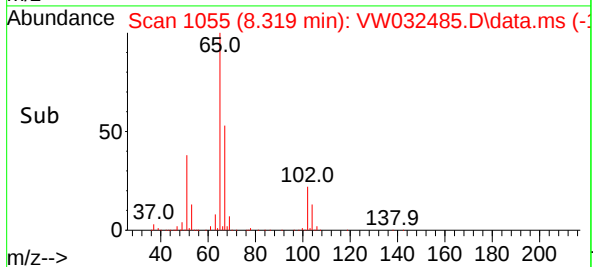
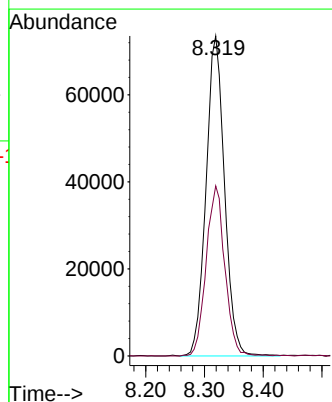
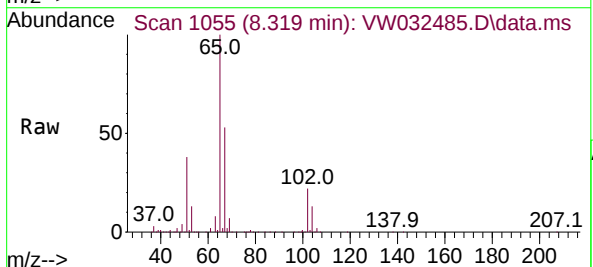
Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251117

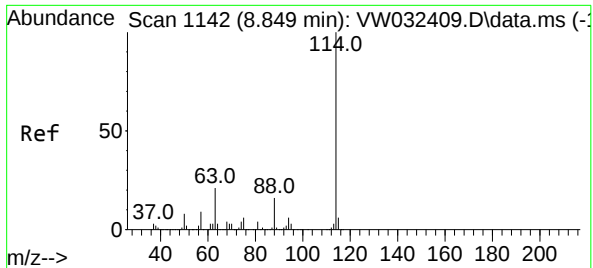
Tgt Ion:168 Resp: 225287
Ion Ratio Lower Upper
168 100
99 62.9 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 55.292 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion: 65 Resp: 160596
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.8

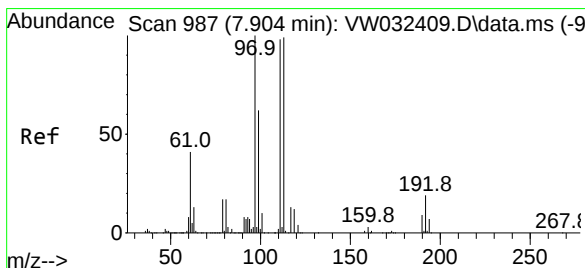
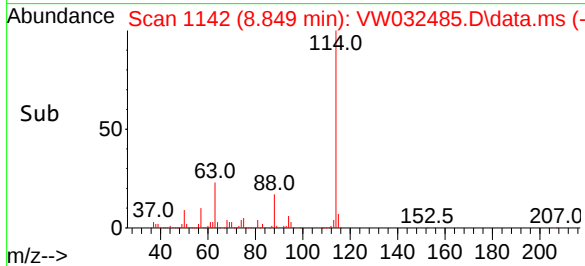
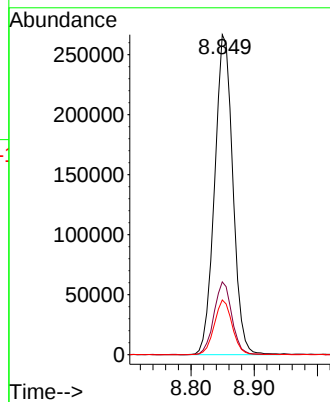
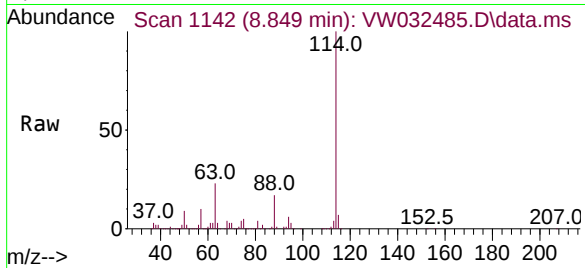




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

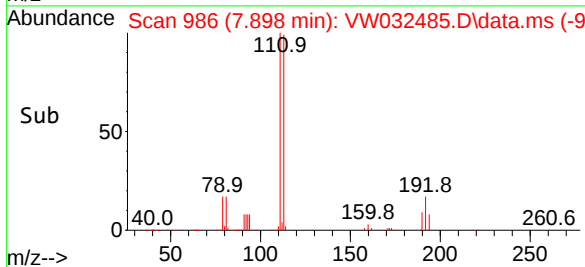
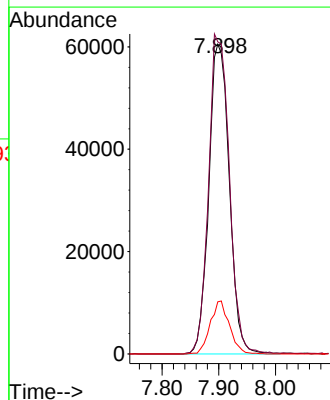
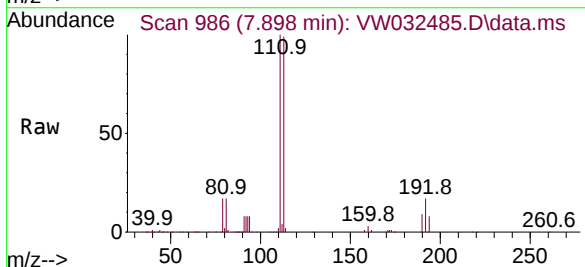
Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251117

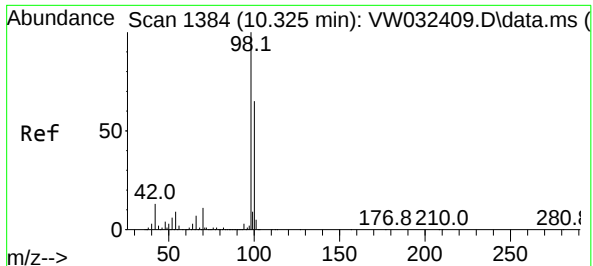
Tgt Ion:	114	Resp:	534048
Ion Ratio	Lower	Upper	
114	100		
63	22.7	0.0	41.8
88	17.1	0.0	32.6



#35
Dibromofluoromethane
Concen: 47.549 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion:	113	Resp:	152037
Ion Ratio	Lower	Upper	
113	100		
111	104.4	83.1	124.7
192	15.9	13.4	20.2

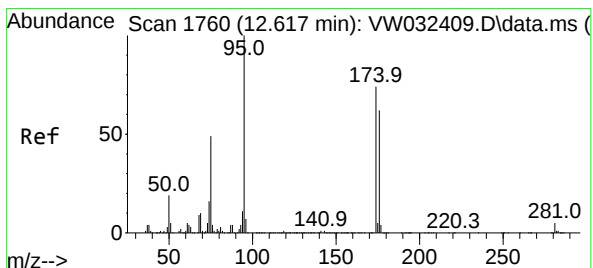
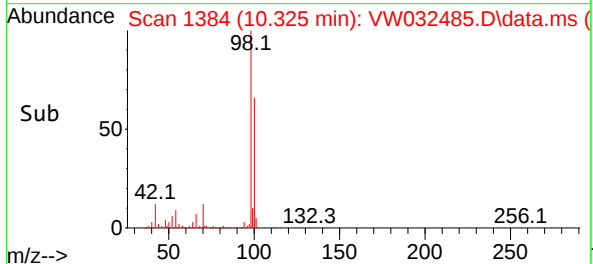
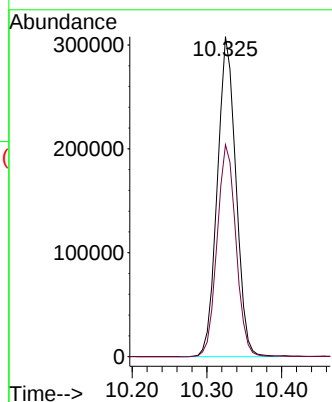
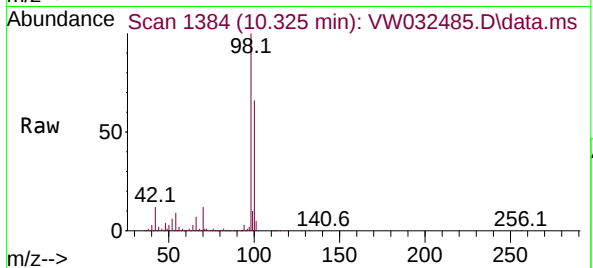




#50
Toluene-d8
Concen: 43.491 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

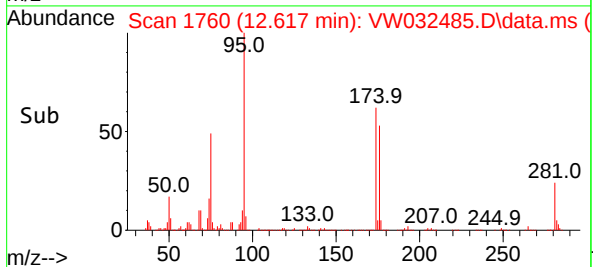
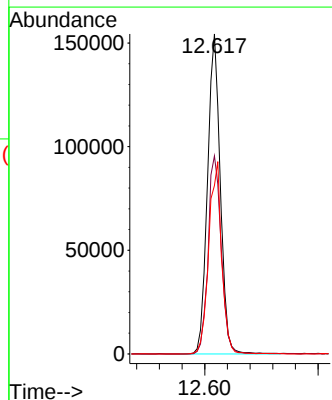
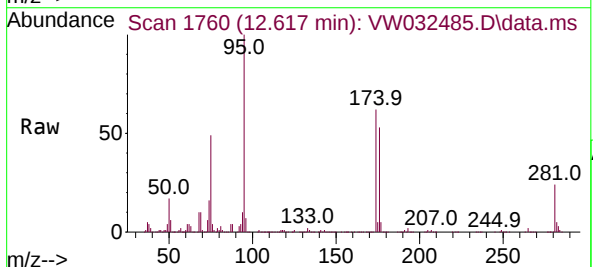
Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251117

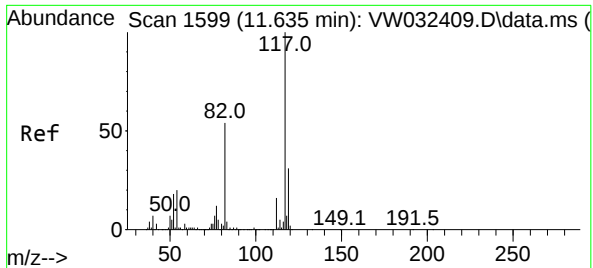
Tgt Ion: 98 Resp: 533491
Ion Ratio Lower Upper
98 100
100 67.0 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 52.144 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion: 95 Resp: 241626
Ion Ratio Lower Upper
95 100
174 63.6 0.0 135.4
176 60.6 0.0 131.8

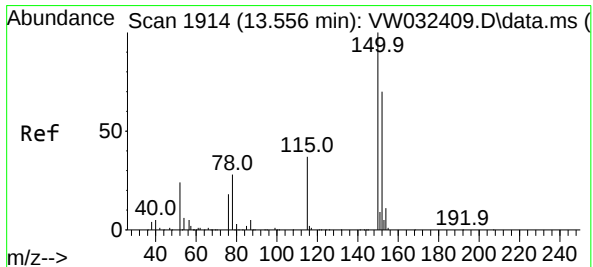
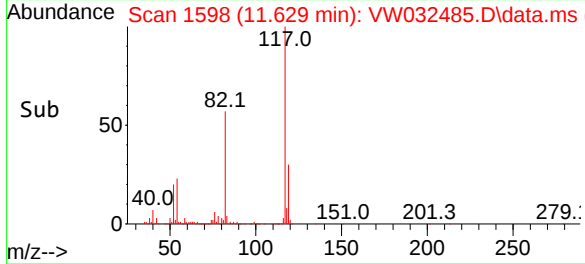
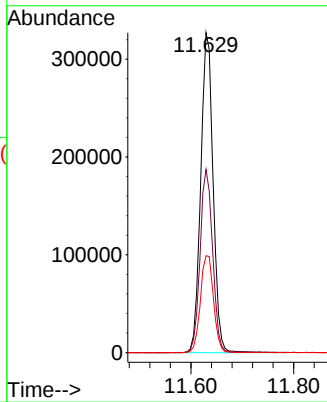
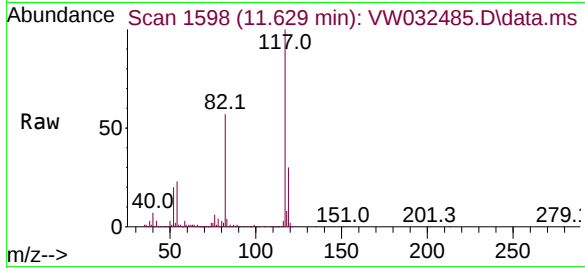




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

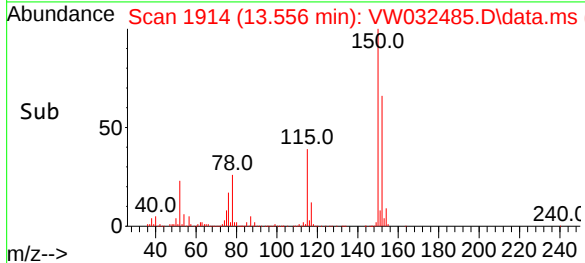
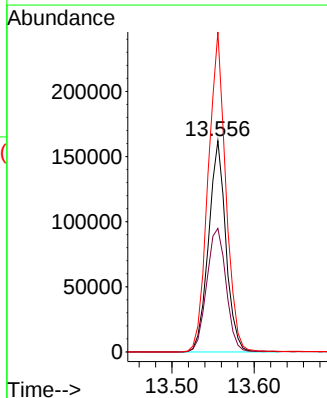
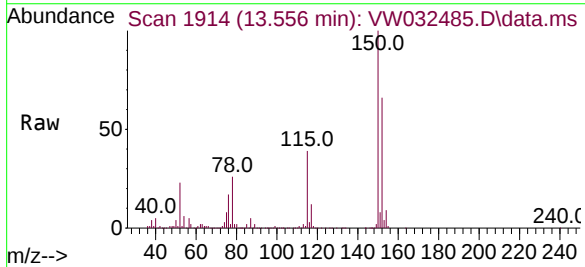
Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251117

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.2	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: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.3	32.8	98.3
150	154.1	0.0	356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251117

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: VW032485.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.960	493	504	515	rBV2	15888	57734	3.39%	0.630%
2	7.179	858	868	877	rBV2	11880	39991	2.35%	0.436%
3	7.898	971	986	991	rBV2	196437	504434	29.66%	5.500%
4	7.965	991	997	1007	rVB	305472	710312	41.76%	7.745%
5	8.319	1044	1055	1066	rBV	203992	455277	26.77%	4.964%
6	8.849	1134	1142	1153	rBV	637856	1281267	75.33%	13.971%
7	10.325	1376	1384	1394	rBV	817366	1451132	85.32%	15.823%
8	11.629	1590	1598	1608	rBV	1004693	1700783	100.00%	18.546%
9	12.617	1750	1760	1772	rBV3	748228	1421781	83.60%	15.503%
10	13.556	1907	1914	1924	rVB	951785	1484417	87.28%	16.186%
11	14.062	1991	1997	2002	rVB	38361	63648	3.74%	0.694%

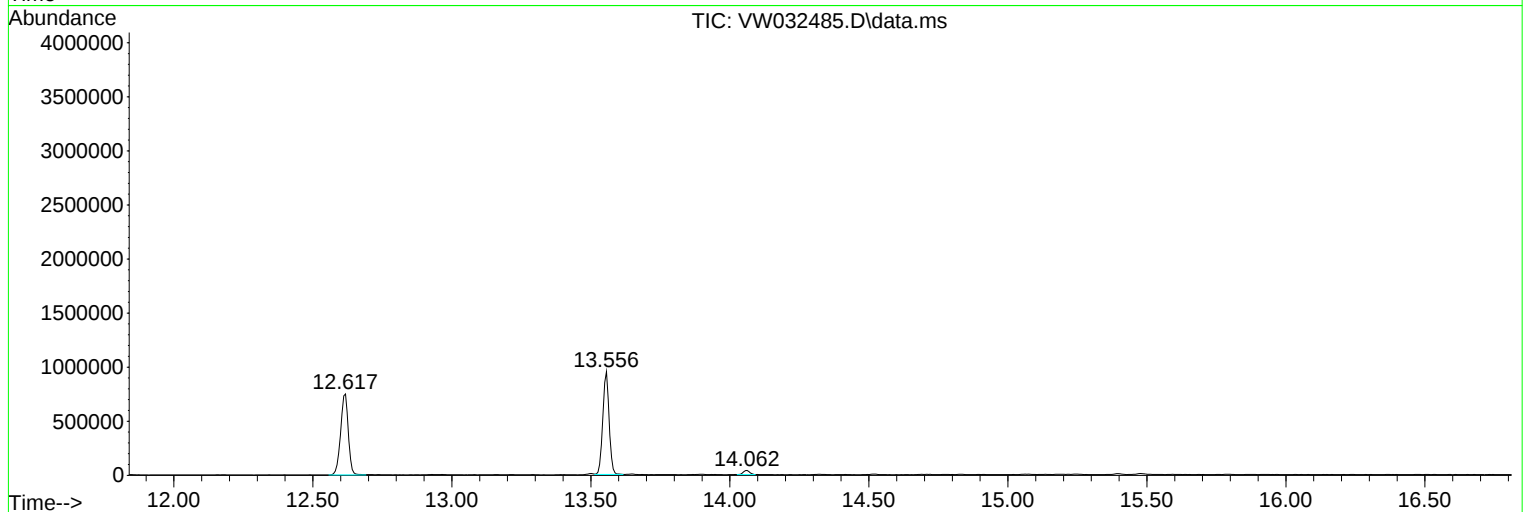
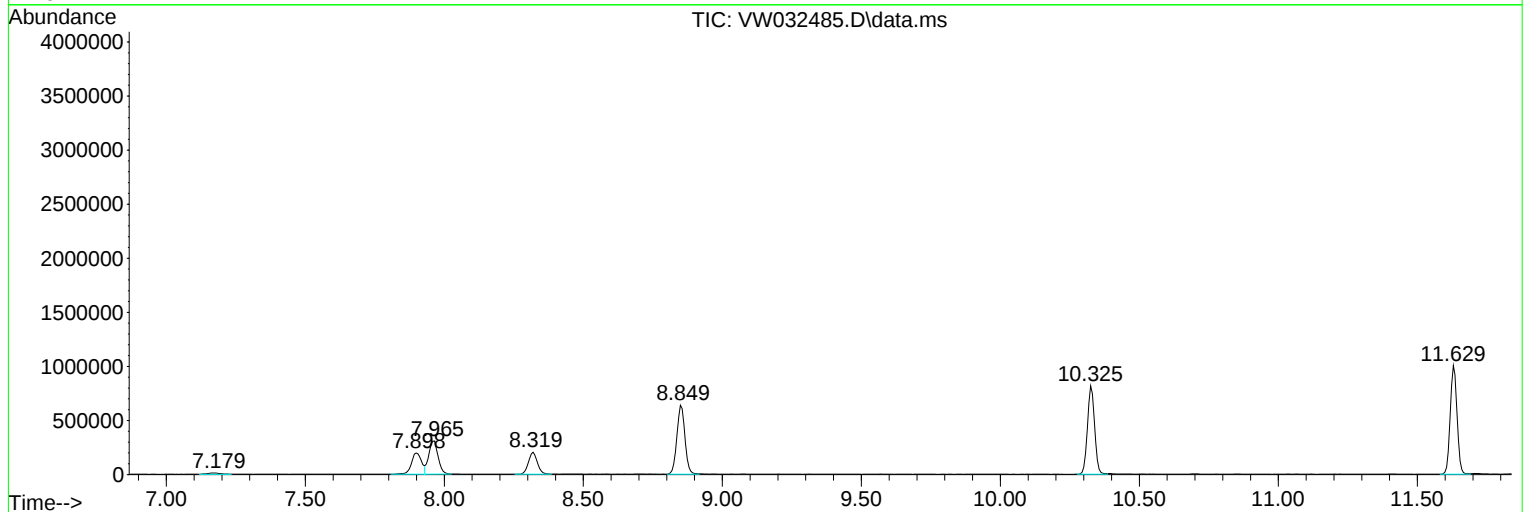
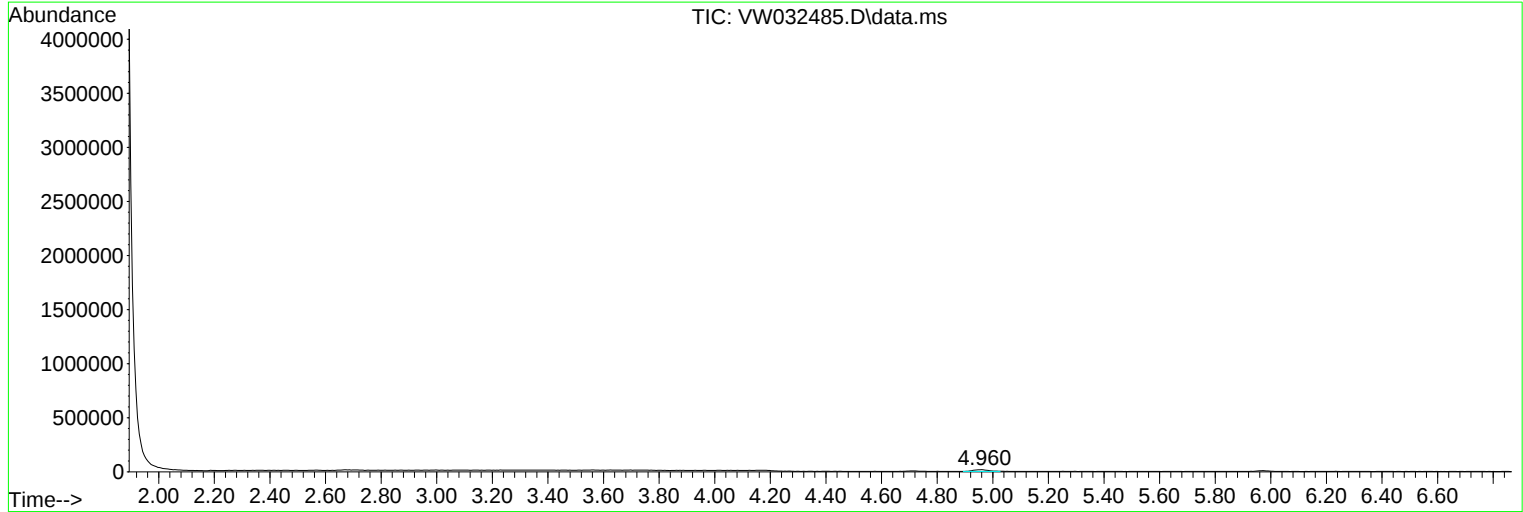
Sum of corrected areas: 9170776

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251117

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 : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251117

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 : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251117

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
------------------	----	---------	-------	----------	---	----	------	------

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B1-0.5-1.0-20251117

Quant Time: Nov 19 00:30:13 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	221426	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	523942	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	582743	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	283484	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	163693	57.341	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	114.680%
35) Dibromofluoromethane	7.898	113	149778	47.746	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	95.500%
50) Toluene-d8	10.325	98	534007	44.373	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	88.740%
62) 4-Bromofluorobenzene	12.617	95	255198	56.135	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	112.280%

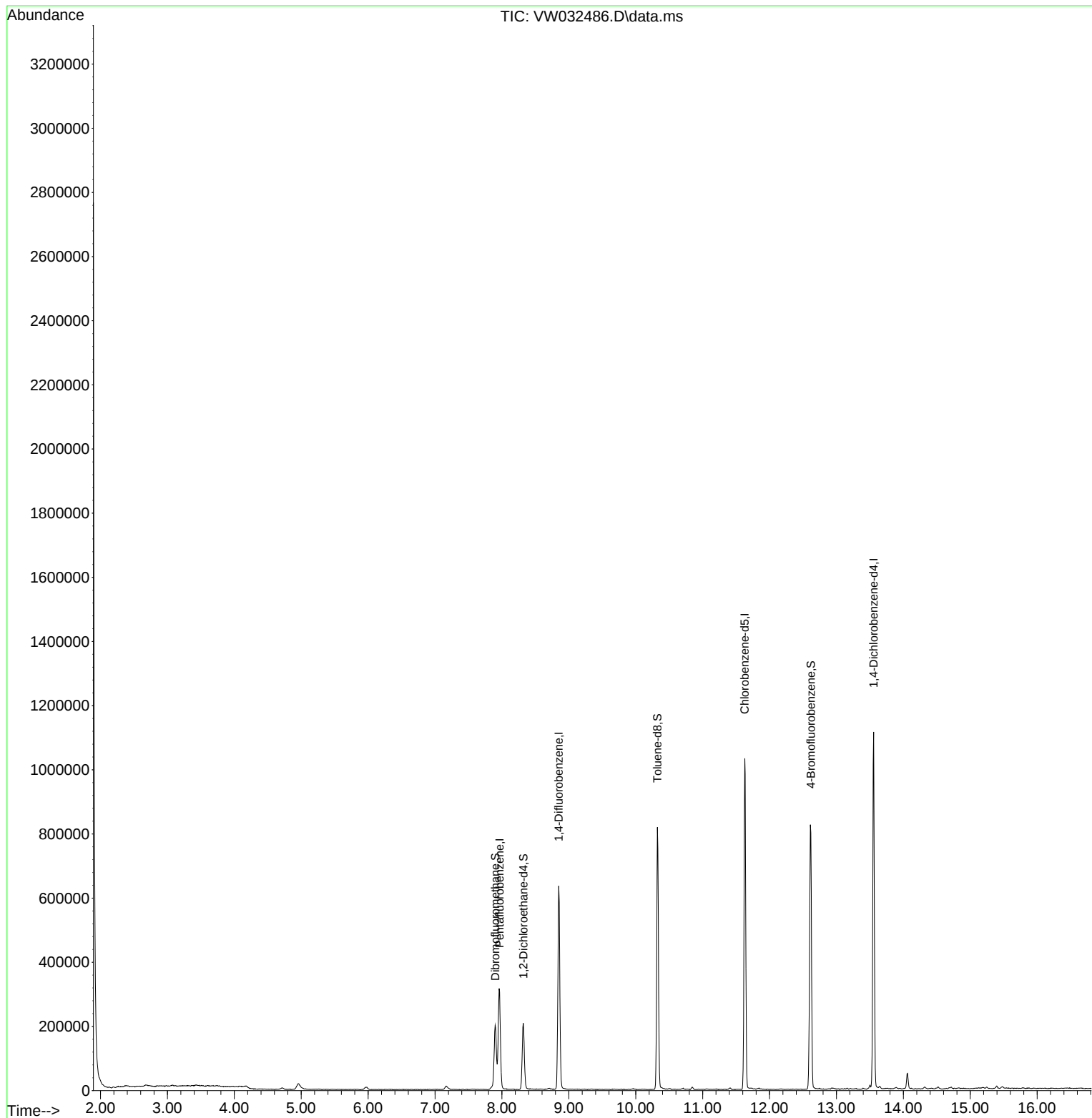
Target Compounds	Qvalue

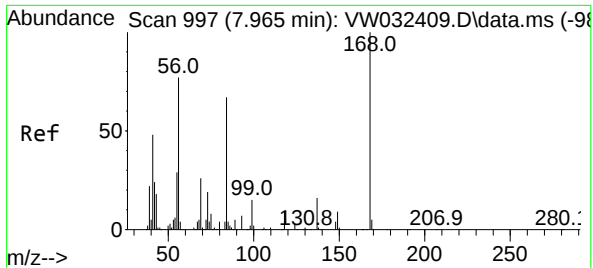
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B1-0.5-1.0-20251117

Quant Time: Nov 19 00:30:13 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

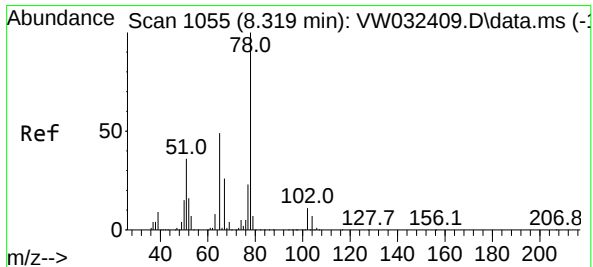
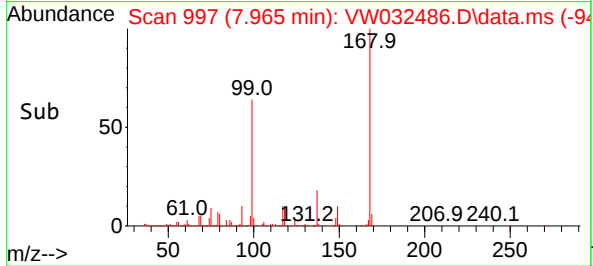
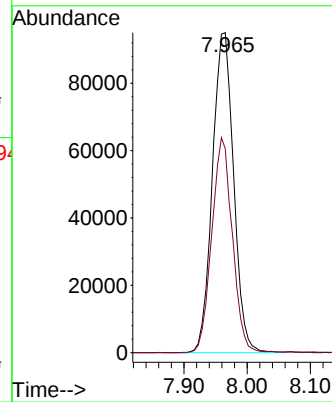
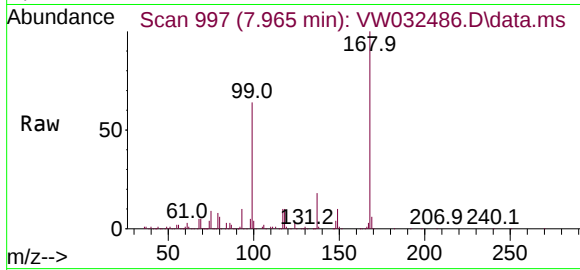




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

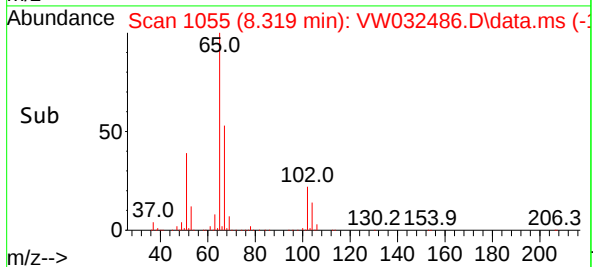
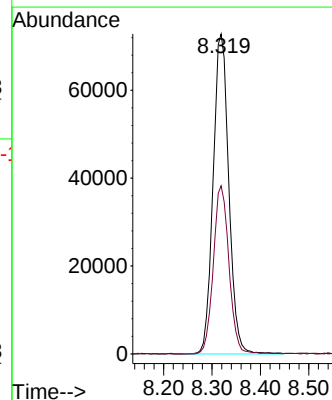
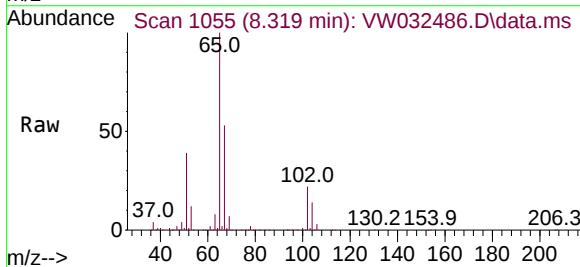
Instrument :
MSVOA_W
ClientSampleId :
B1-0.5-1.0-20251117

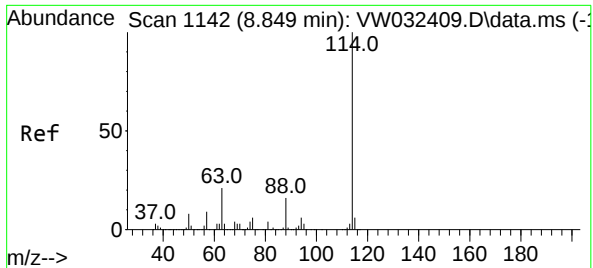
Tgt Ion:168 Resp: 221426
Ion Ratio Lower Upper
168 100
99 63.6 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 57.341 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion: 65 Resp: 163693
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.8

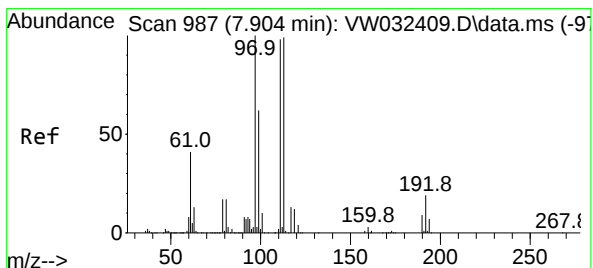
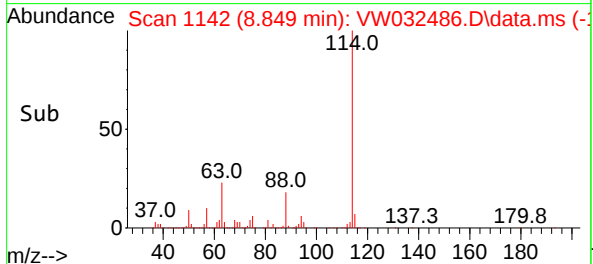
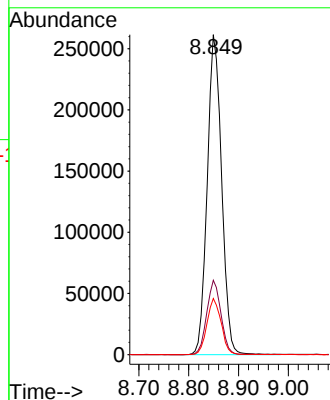
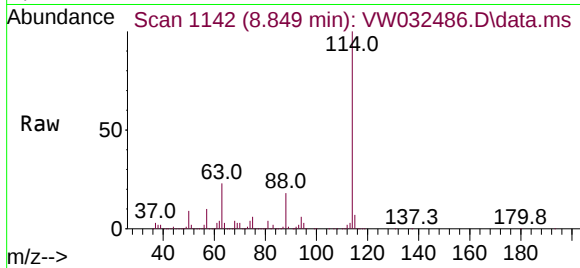




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

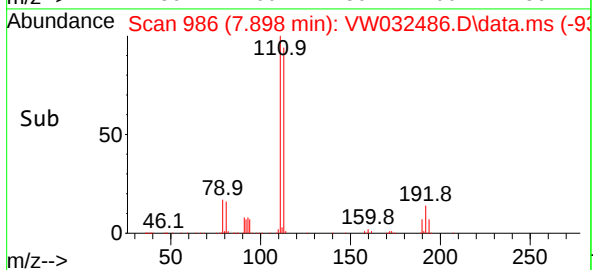
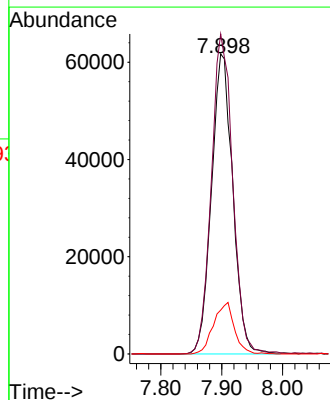
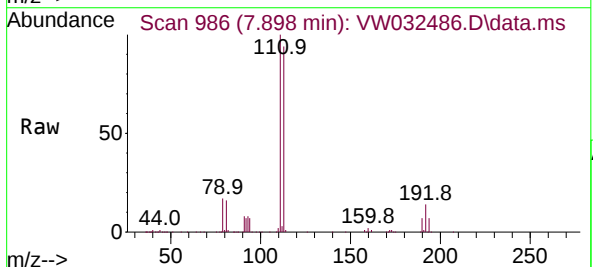
Instrument :
MSVOA_W
ClientSampleId :
B1-0.5-1.0-20251117

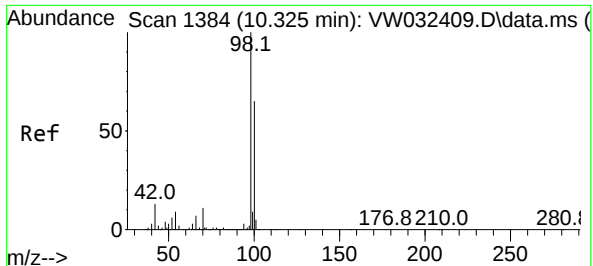
Tgt Ion:	114	Resp:	523942
Ion Ratio	Lower	Upper	
114	100		
63	23.2	0.0	41.8
88	17.5	0.0	32.6



#35
Dibromofluoromethane
Concen: 47.746 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion:	113	Resp:	149778
Ion Ratio	Lower	Upper	
113	100		
111	107.1	83.1	124.7
192	16.6	13.4	20.2

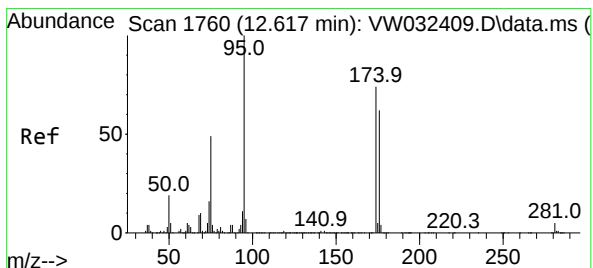
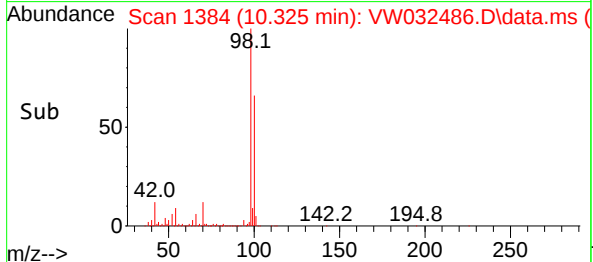
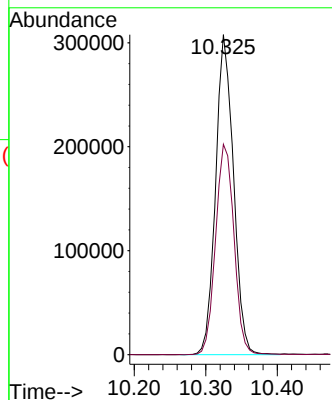
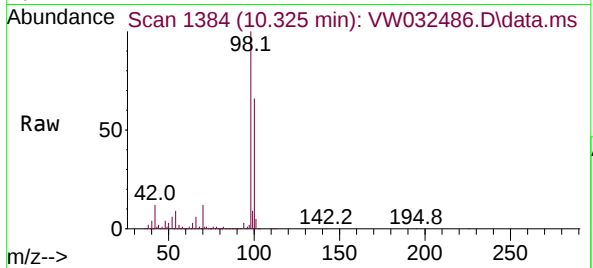




#50
Toluene-d8
Concen: 44.373 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

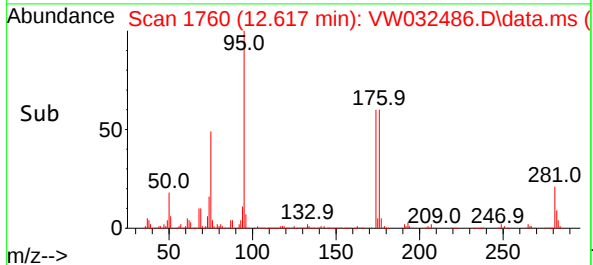
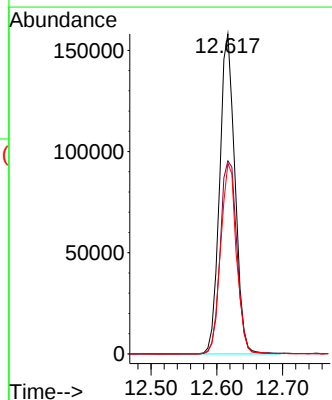
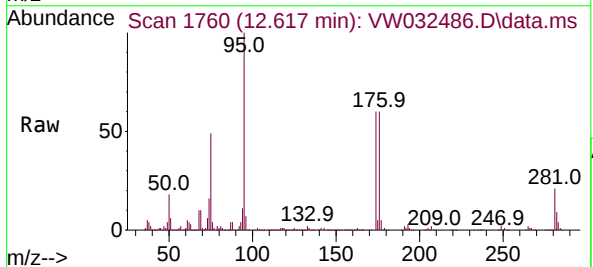
Instrument :
MSVOA_W
ClientSampleId :
B1-0.5-1.0-20251117

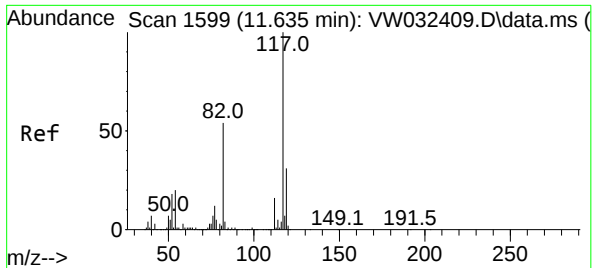
Tgt Ion: 98 Resp: 534007
Ion Ratio Lower Upper
98 100
100 67.8 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 56.135 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

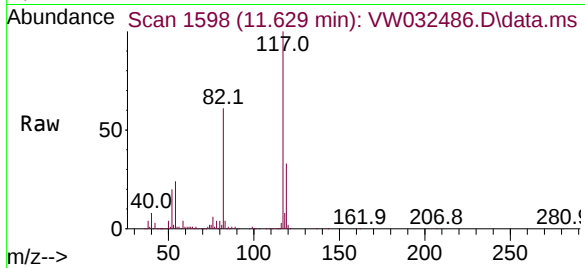
Tgt Ion: 95 Resp: 255198
Ion Ratio Lower Upper
95 100
174 65.0 0.0 135.4
176 61.6 0.0 131.8



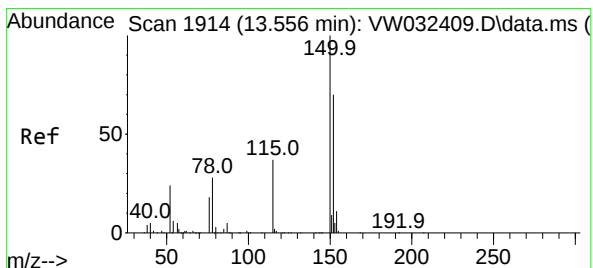
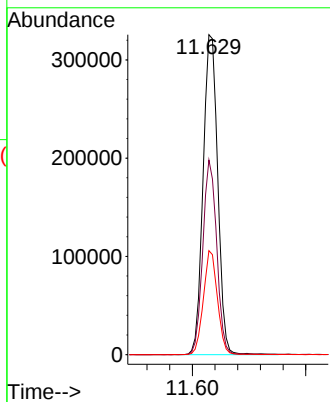
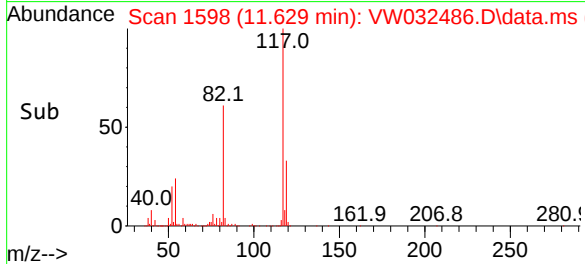


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Instrument :
MSVOA_W
ClientSampleId :
B1-0.5-1.0-20251117

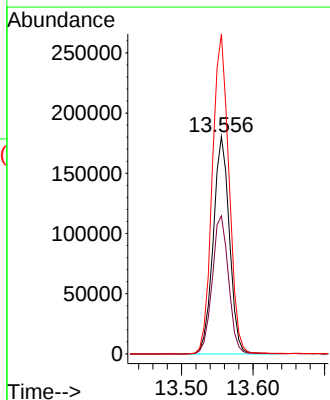
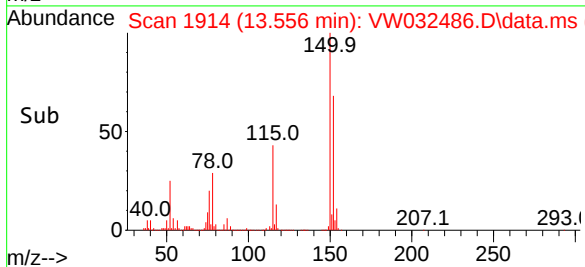
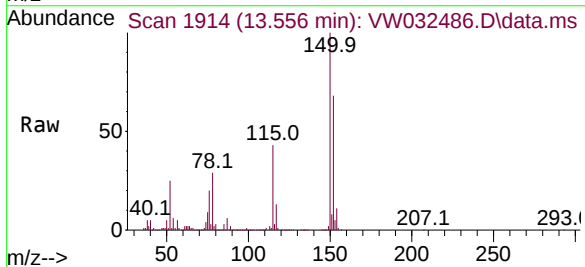


Tgt Ion:117 Resp: 582743
Ion Ratio Lower Upper
117 100
82 60.8 43.0 64.4
119 32.5 25.0 37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion:152 Resp: 283484
Ion Ratio Lower Upper
152 100
115 64.1 32.8 98.3
150 151.4 0.0 356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032486.D
 Acq On : 18 Nov 2025 16:58
 Operator : SY/MD
 Sample : Q3662-03
 Misc : 6.12g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B1-0.5-1.0-20251117

A
B
C
D
E
F
G
H
I
J

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Signal : TIC: VW032486.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.960	494	504	518	rBV5	17297	69680	3.85%	0.710%
2	7.167	858	866	881	rVB	10897	34092	1.88%	0.347%
3	7.898	968	986	991	rBV2	200772	513403	28.36%	5.229%
4	7.959	991	996	1008	rVB	313407	713388	39.41%	7.266%
5	8.319	1043	1055	1066	rBV	206780	473159	26.14%	4.819%
6	8.849	1132	1142	1154	rBV	634071	1279881	70.70%	13.035%
7	10.325	1376	1384	1399	rBV	817230	1460219	80.66%	14.872%
8	11.629	1590	1598	1611	rBV	1032067	1810323	100.00%	18.437%
9	12.611	1748	1759	1771	rBV2	824783	1621250	89.56%	16.512%
10	13.556	1907	1914	1925	rVB	1108852	1761577	97.31%	17.941%
11	14.062	1991	1997	2005	rVB2	47191	81740	4.52%	0.832%

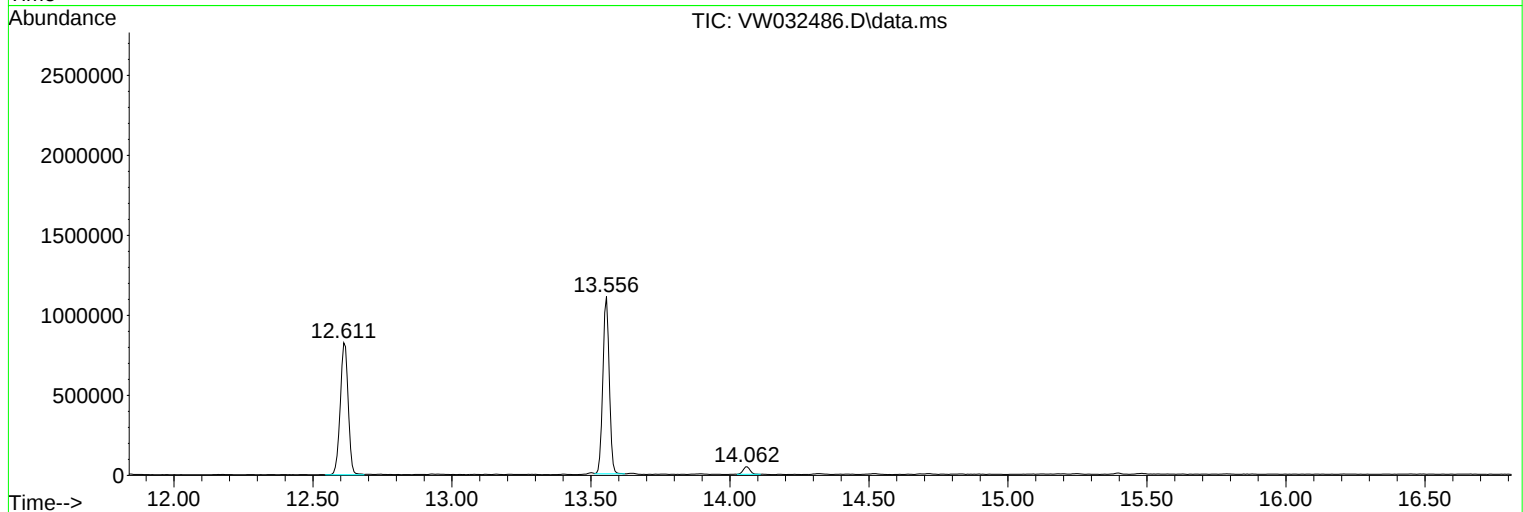
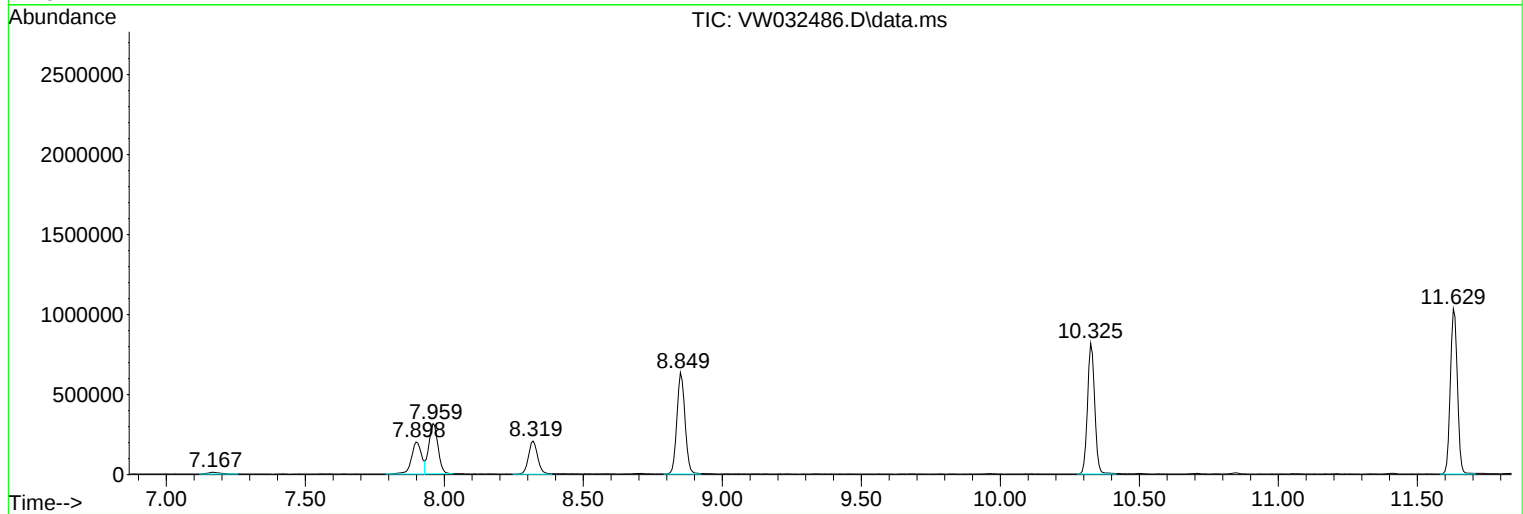
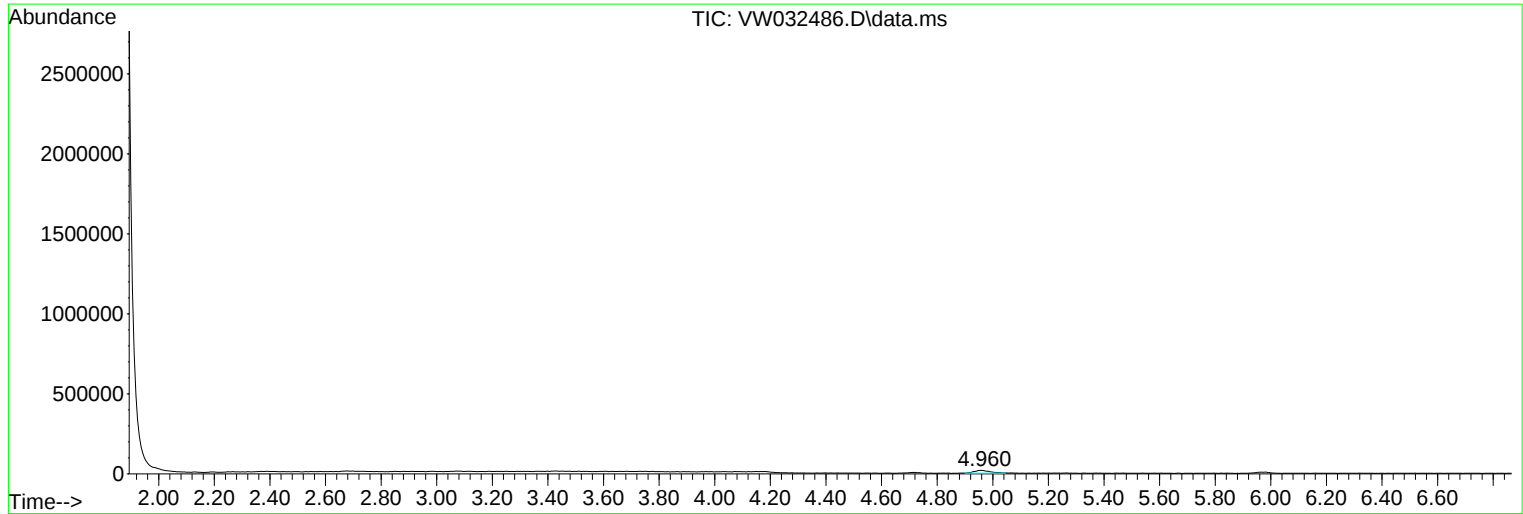
Sum of corrected areas: 9818712

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B1-0.5-1.0-20251117

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 : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B1-0.5-1.0-20251117

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 : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B1-0.5-1.0-20251117

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
------------------	----	---------	-------	----------	---	----	------	------

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%

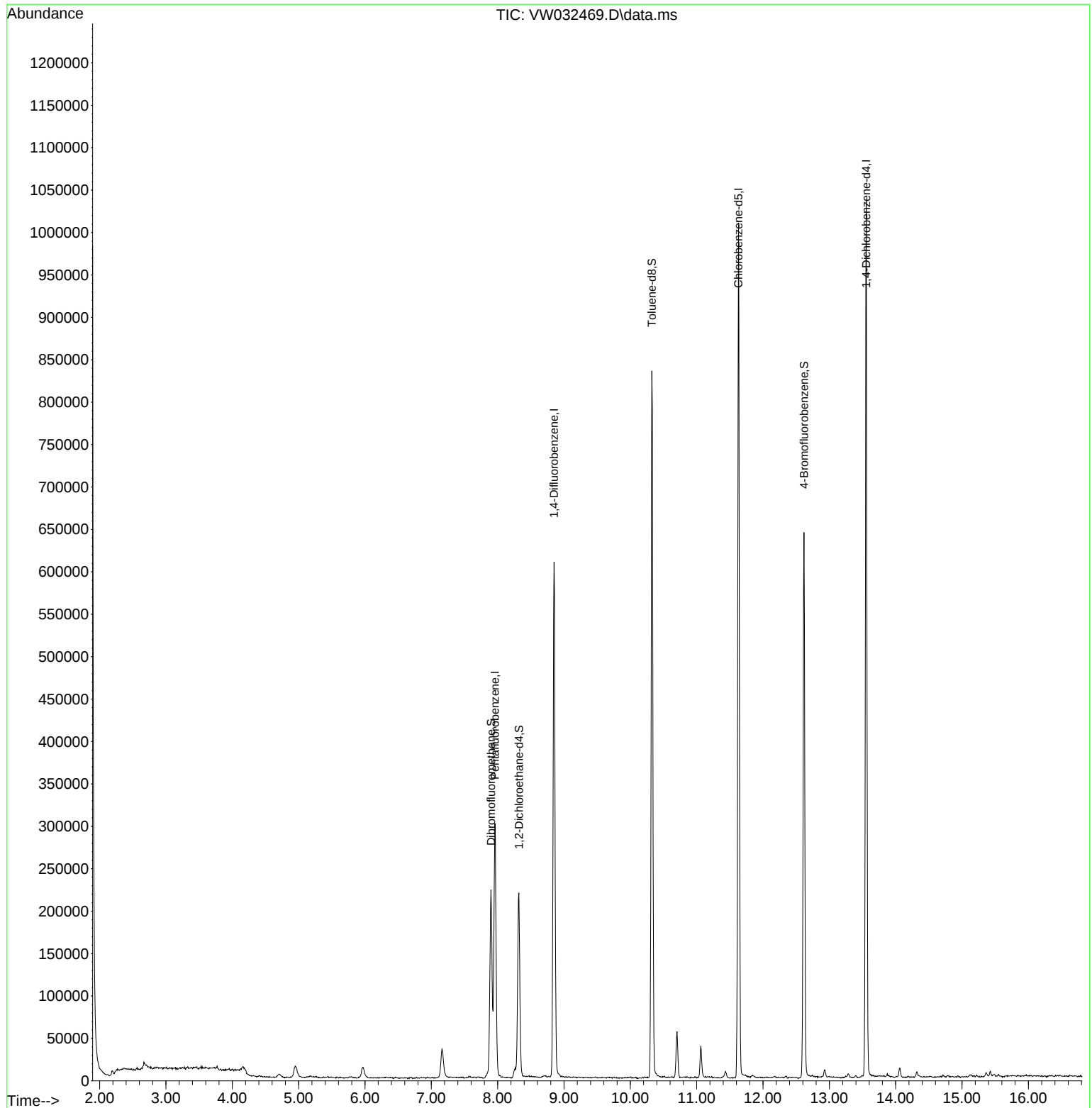
Target Compounds	Qvalue

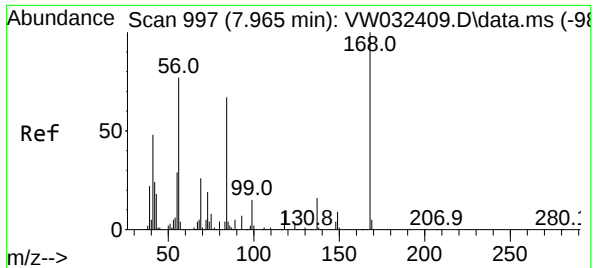
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

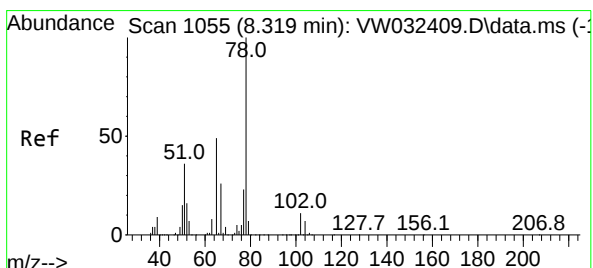
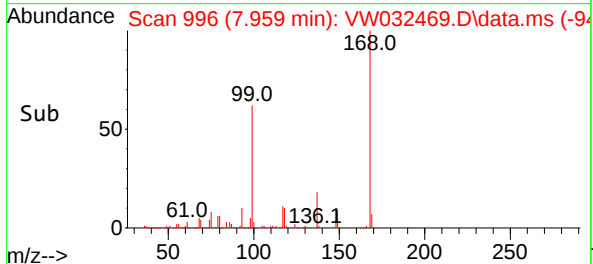
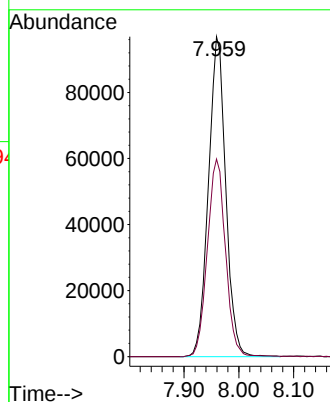
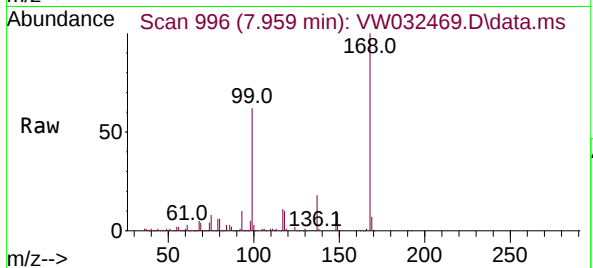




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

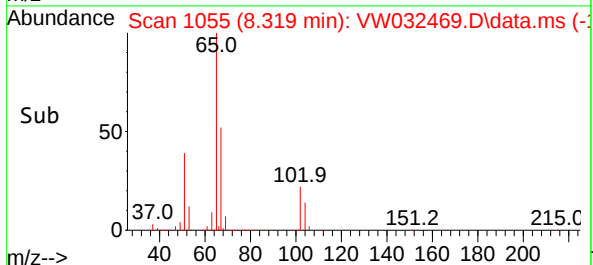
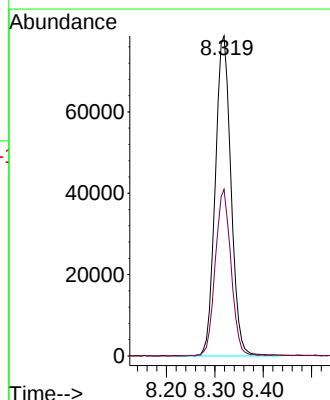
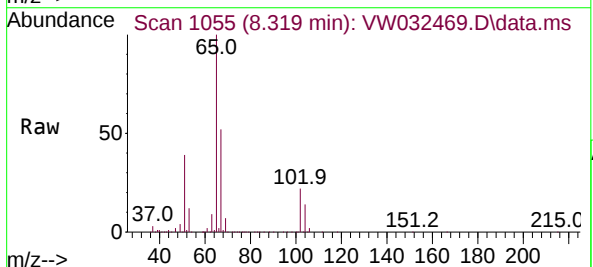
Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

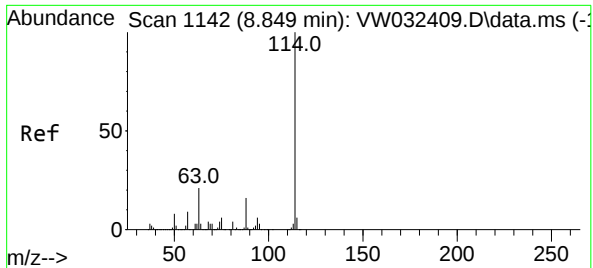
Tgt Ion:168 Resp: 212726
Ion Ratio Lower Upper
168 100
99 61.7 45.4 68.2



#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

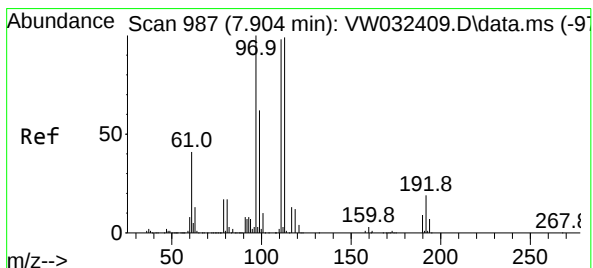
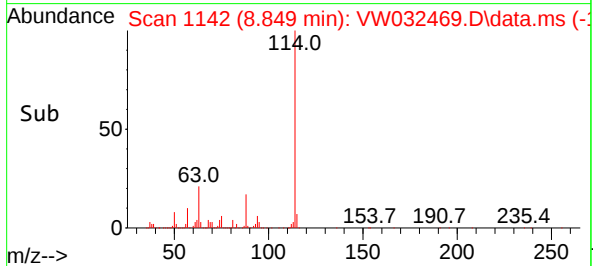
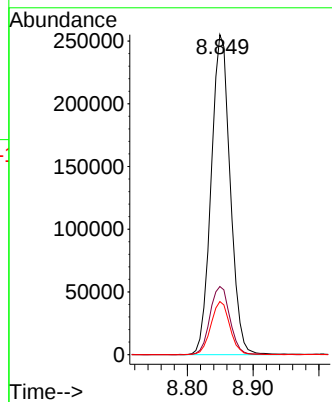
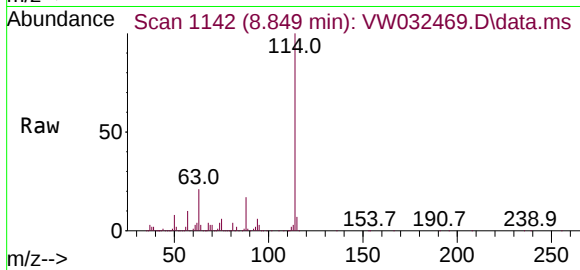
Tgt Ion:114 Resp: 511741

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

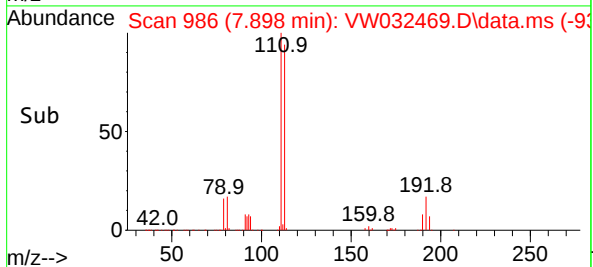
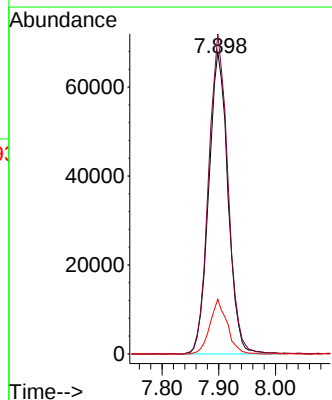
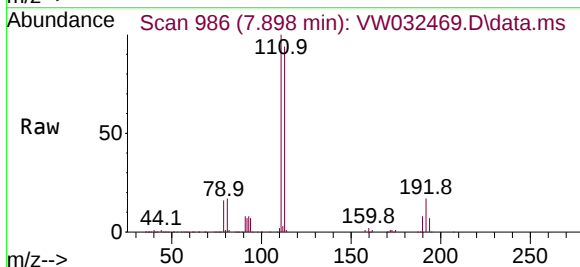
Tgt Ion:113 Resp: 160106

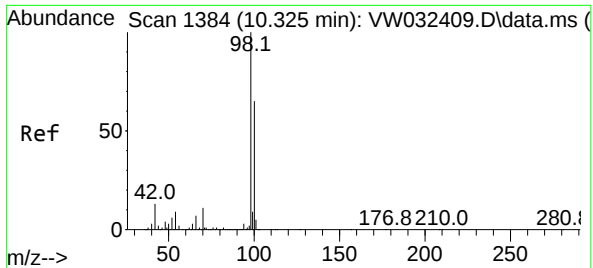
Ion Ratio Lower Upper

113 100

111 106.3 83.1 124.7

192 16.2 13.4 20.2

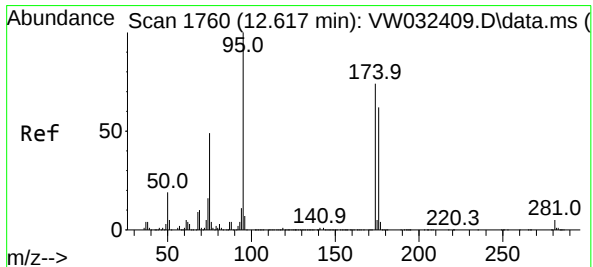
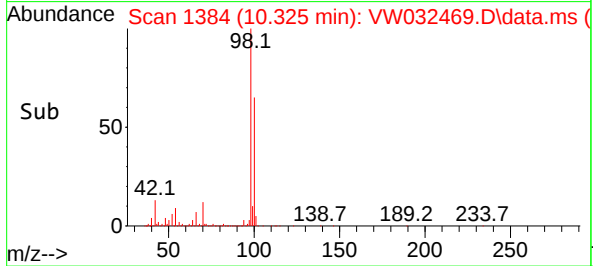
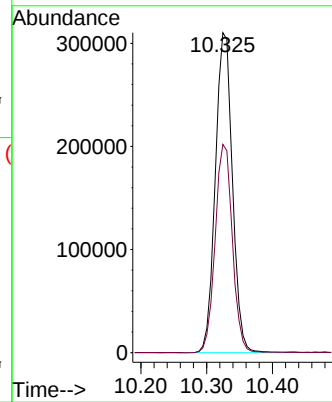
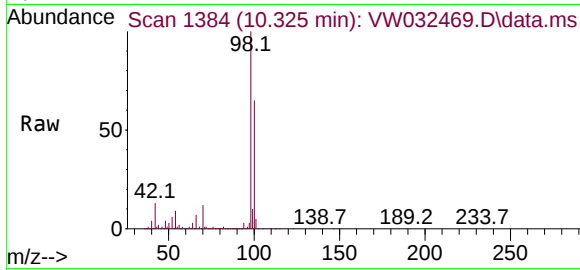




#50
Toluene-d8
Concen: 47.411 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

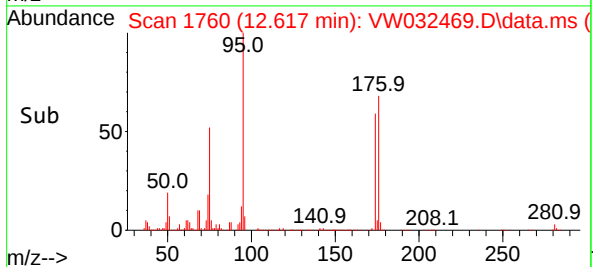
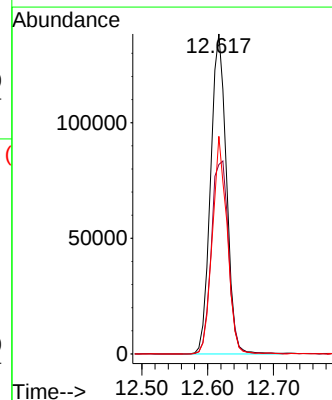
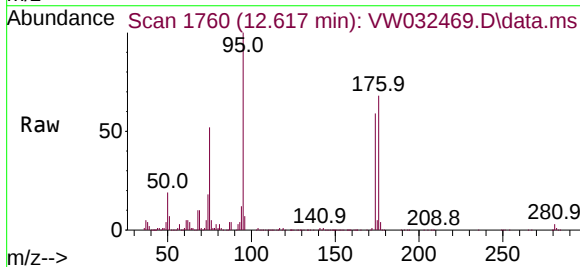
Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

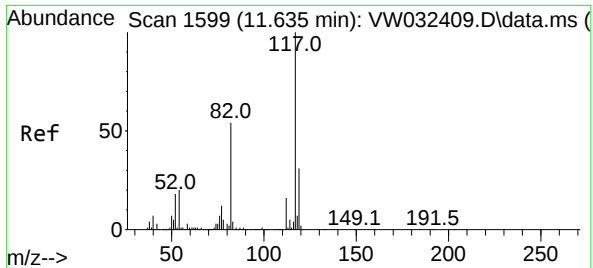
Tgt Ion: 98 Resp: 557281
Ion Ratio Lower Upper
98 100
100 65.7 53.3 79.9



#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

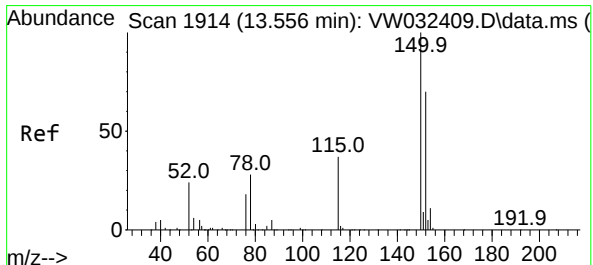
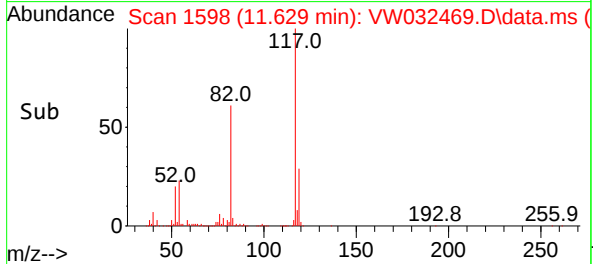
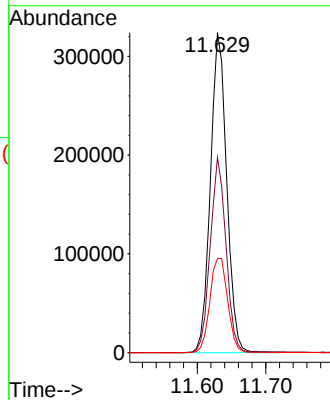
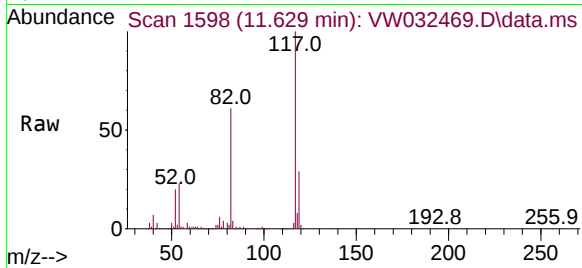




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

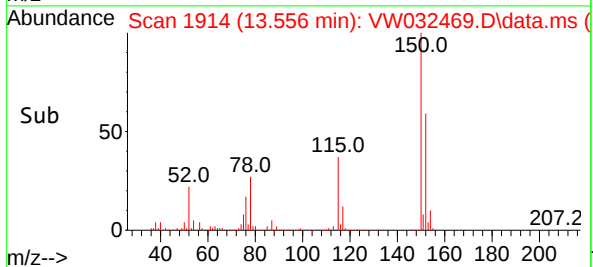
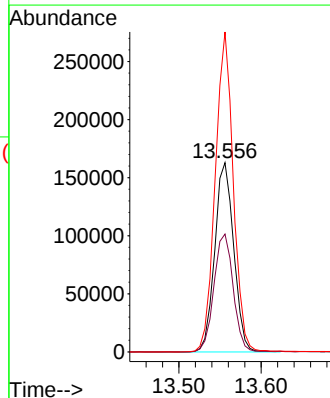
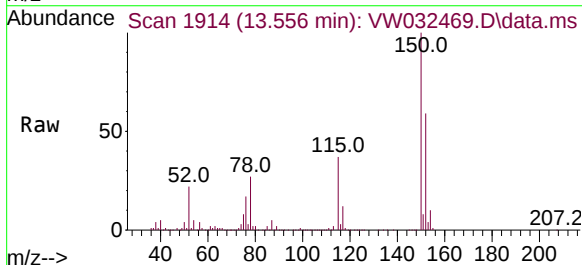
Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

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%

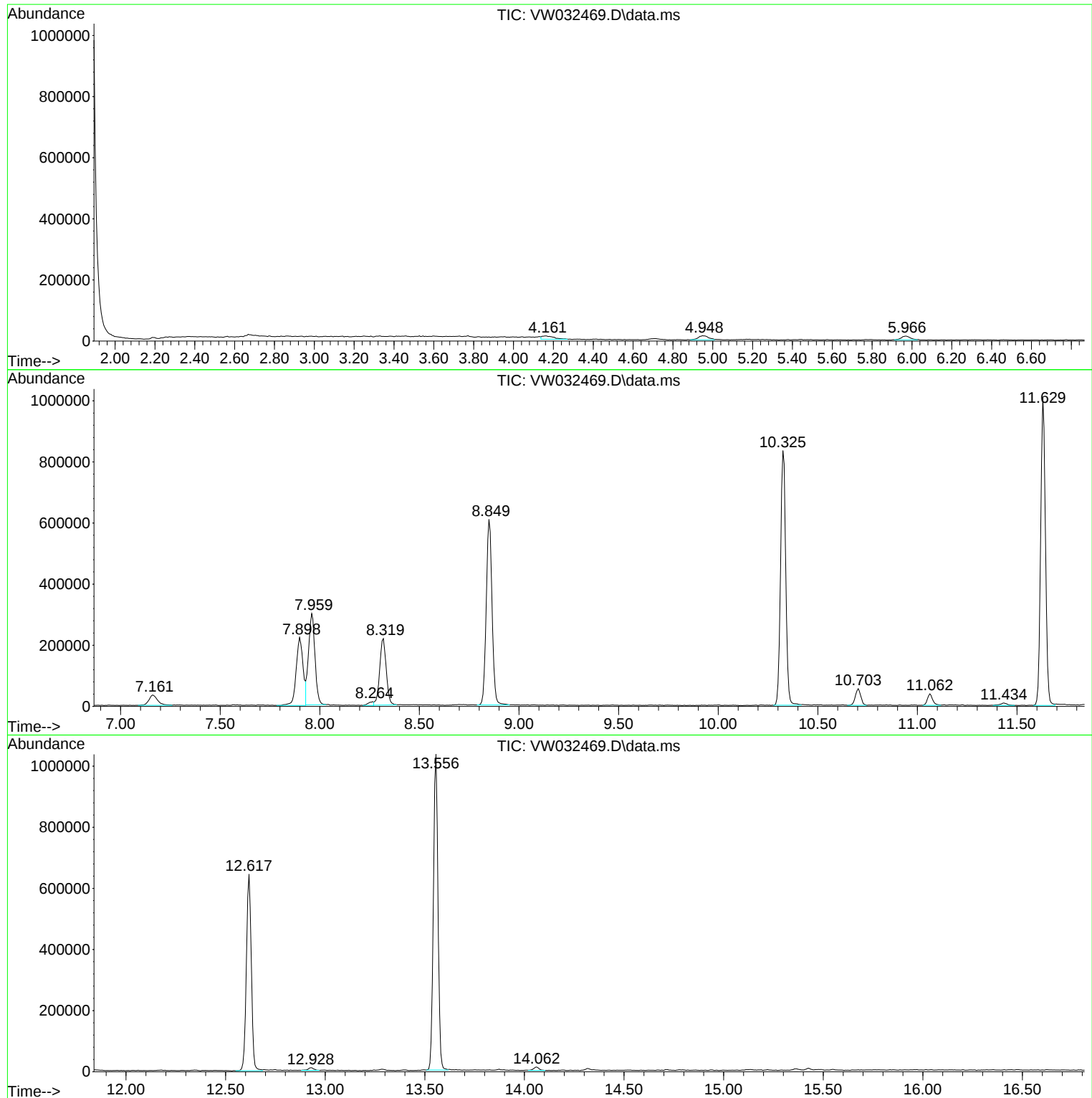
Sum of corrected areas: 9348726

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



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

A

B

C

D

E

F

G

H

I

J

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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--Internal Standard--

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

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

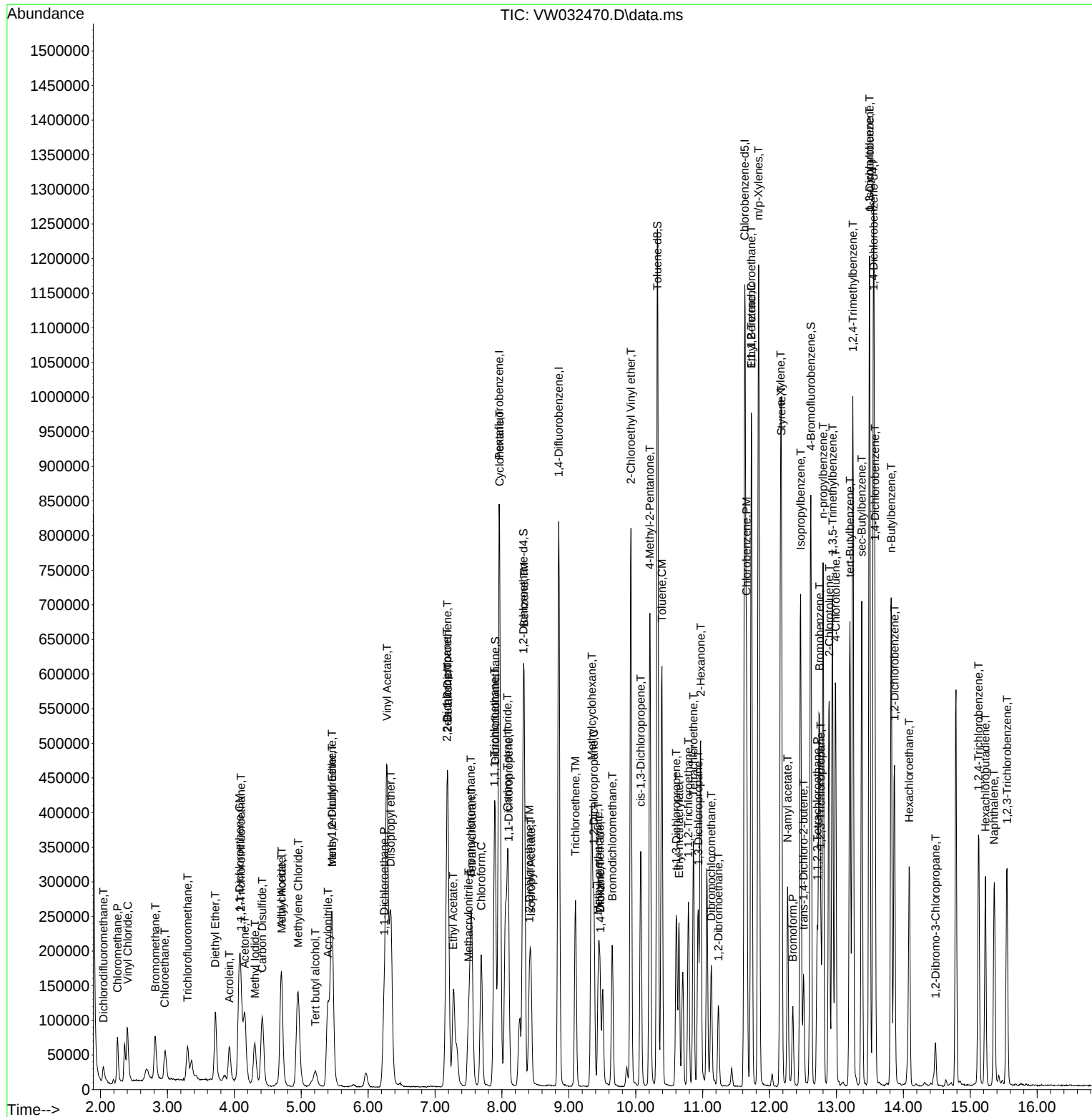
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032470.D
Acq On : 18 Nov 2025 10:40
Operator : SY/MD
Sample : VW11185BS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

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\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

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

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)

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

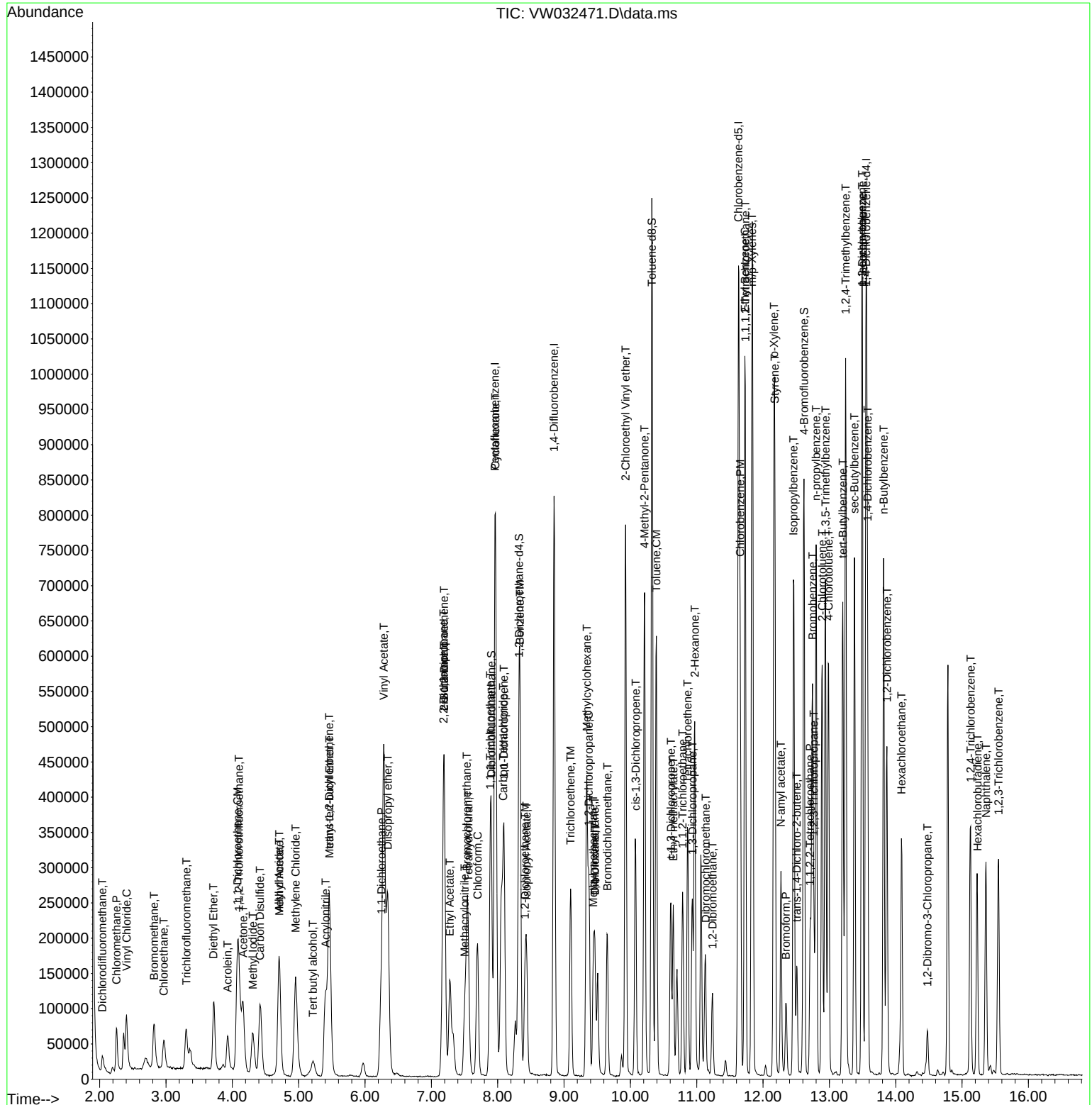
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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/QCBatch 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
C
D
E
F
G
H
I
J

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	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					

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

LAB CHRONICLE

OrderID:	Q3662	OrderDate:	11/18/2025 11:14:00 AM
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
Q3662-01	B3-0.5-1.0-20251117	SOIL	VOC-TCLVOA-10	8260D	11/17/25		11/18/25	11/18/25
Q3662-03	B1-0.5-1.0-20251117	SOIL	VOC-TCLVOA-10	8260D	11/17/25		11/18/25	11/18/25