

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110625\
 Data File : VN088204.D
 Acq On : 06 Nov 2025 14:29
 Operator : JC\MD
 Sample : Q3537-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17-SOIL

Quant Time: Nov 07 02:19:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

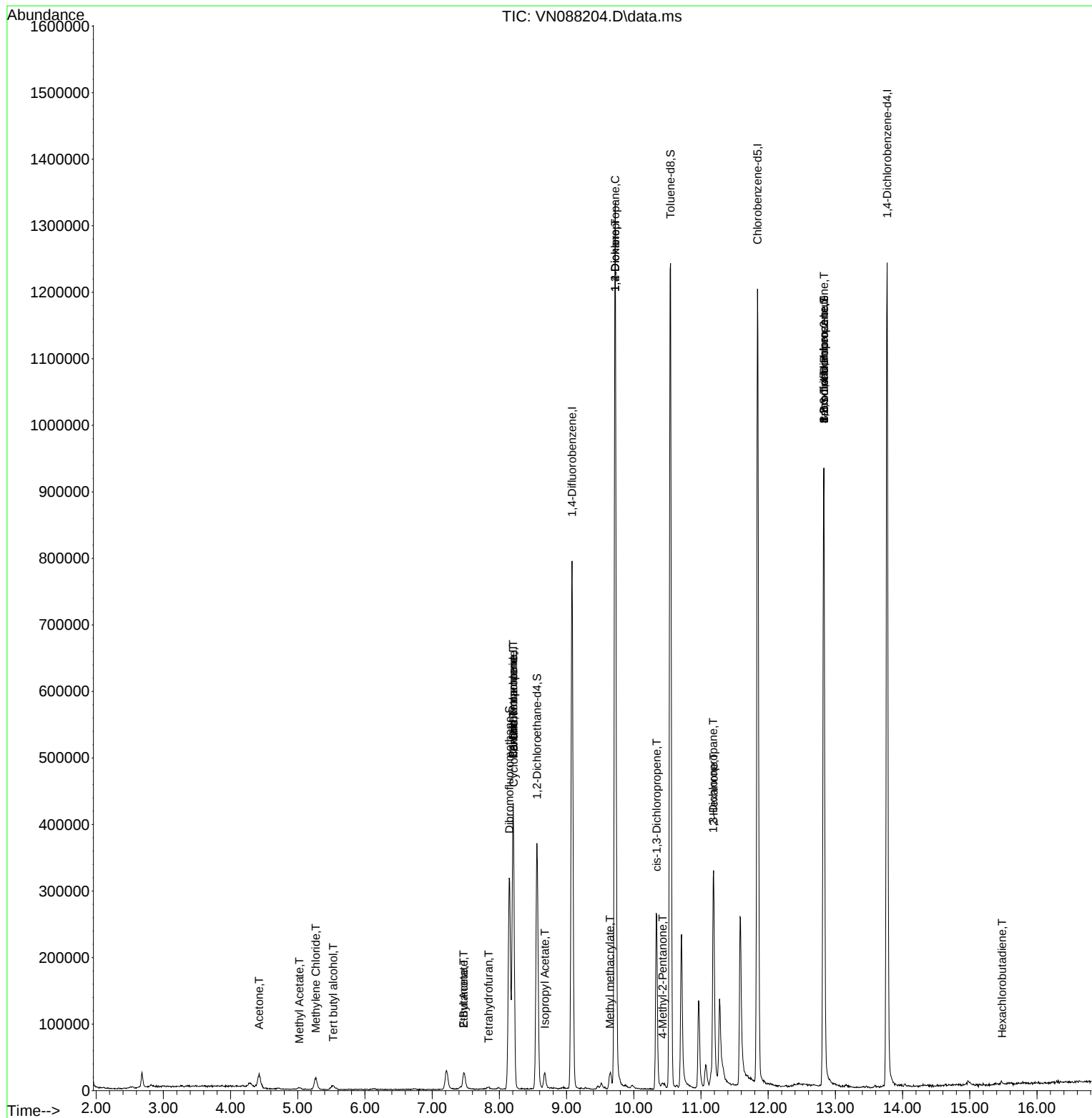
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

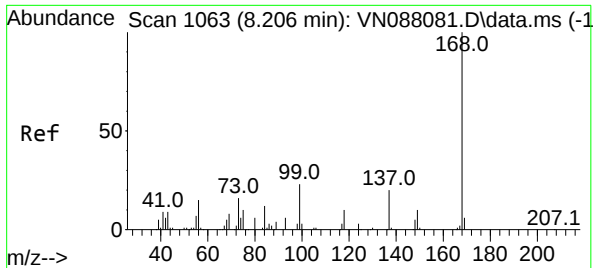
Internal Standards						
1) Pentafluorobenzene	8.206	168	282717	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	663418	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	645443	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	328310	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	309078	63.222	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 126.440%#			
35) Dibromofluoromethane	8.147	113	226242	50.762	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.520%			
50) Toluene-d8	10.547	98	844931	49.201	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.400%			
62) 4-Bromofluorobenzene	12.829	95	346067	57.061	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 114.120%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.530	59	10984	13.042	ug/l #	87
16) Acetone	4.424	43	38449	15.655	ug/l	91
18) Methyl Acetate	5.024	43	6392	1.271	ug/l #	80
20) Methylene Chloride	5.271	84	12619	3.061	ug/l	91
25) 2-Butanone	7.471	43	46784	14.454	ug/l	99
29) Tetrahydrofuran	7.841	42	2589	1.227	ug/l #	74
31) Cyclohexane	8.212	56	8120	1.187	ug/l #	20
36) 1,1-Dichloropropene	8.206	75	28060	4.312	ug/l #	51
37) Ethyl Acetate	7.471	43	46784	5.571	ug/l #	72
38) Carbon Tetrachloride	8.206	117	33128	4.929	ug/l #	16
43) Isopropyl Acetate	8.677	43	30379	2.354	ug/l #	91
45) 1,2-Dichloropropane	9.724	63	1672	0.334	ug/l #	43
48) Methyl methacrylate	9.647	41	4982	0.836	ug/l #	50
49) 1,4-Dioxane	9.724	88	169	2.281	ug/l #	1
51) 4-Methyl-2-Pentanone	10.429	43	6954	0.911	ug/l #	87
54) cis-1,3-Dichloropropene	10.341	75	49341	6.115	ug/l #	63
57) 1,3-Dichloropropane	11.182	76	4160	0.511	ug/l #	42
59) 2-Hexanone	11.188	43	81936	16.179	ug/l #	58
71) Bromoform	12.829	173	2622	0.732	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	200597	26.724	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	200597	74.548	ug/l #	1
94) Hexachlorobutadiene	15.482	225	672	0.284	ug/l #	44

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

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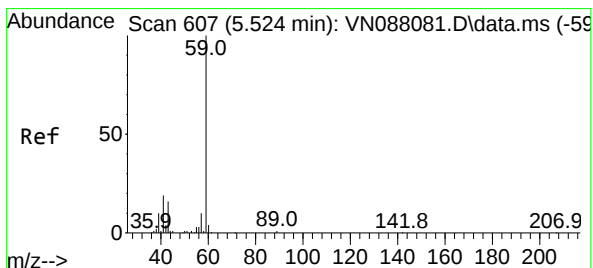
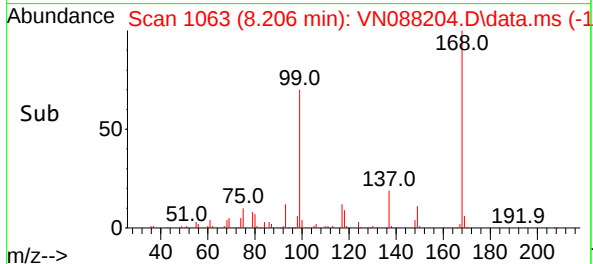
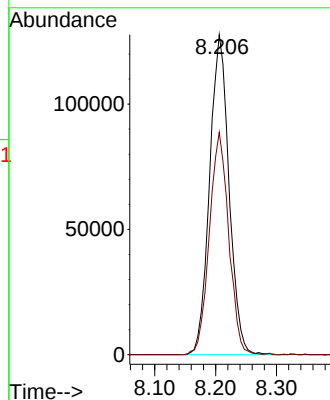
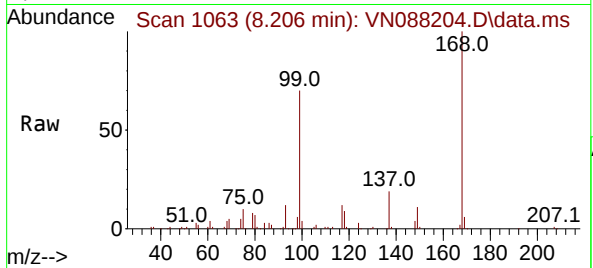




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

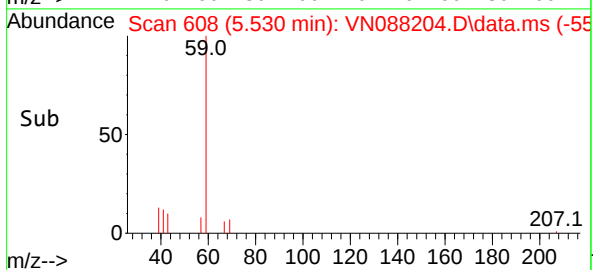
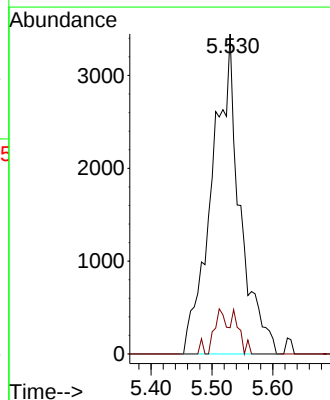
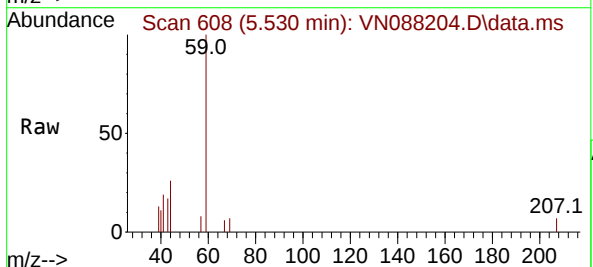
Instrument :
MSVOA_N
ClientSampleId :
MW-17-SOIL

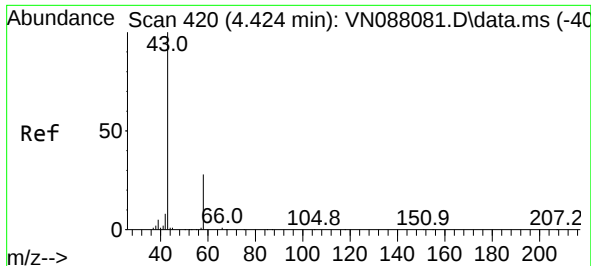
Tgt Ion:168 Resp: 282717
Ion Ratio Lower Upper
168 100
99 69.5 57.2 85.8



#11
Tert butyl alcohol
Concen: 13.042 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.012 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Tgt Ion: 59 Resp: 10984
Ion Ratio Lower Upper
59 100
57 6.4 9.0 13.4#

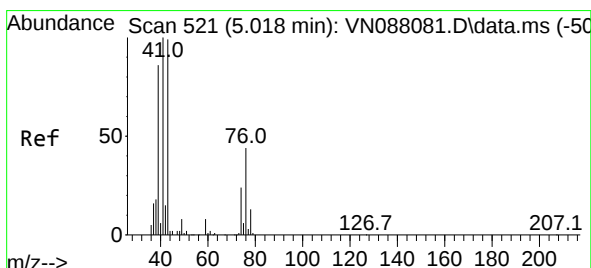
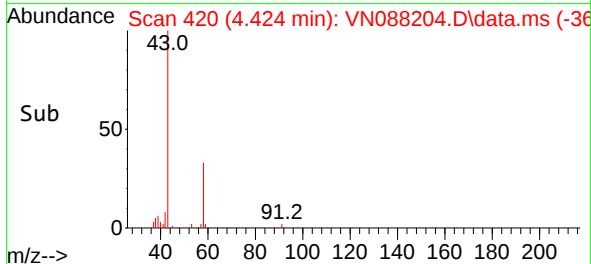
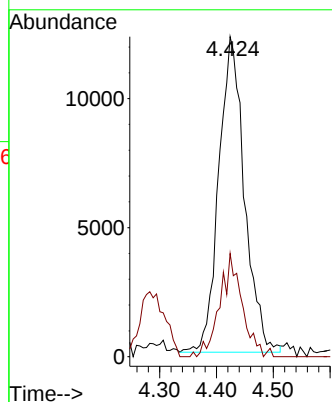
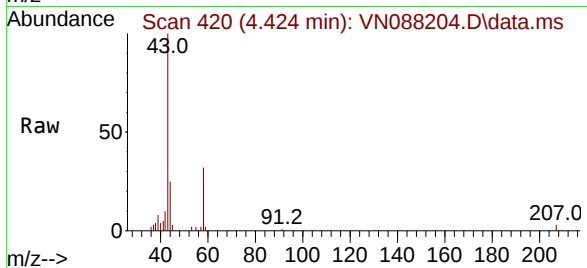




#16
Acetone
Concen: 15.655 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

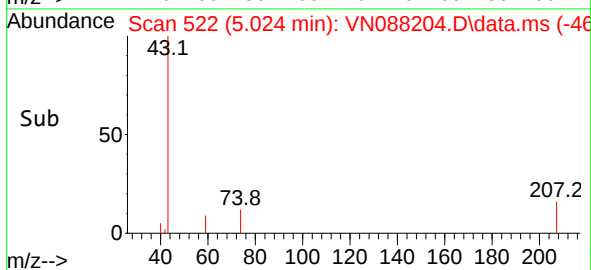
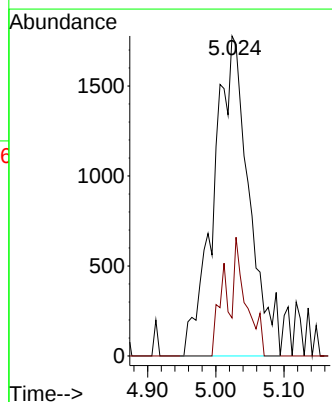
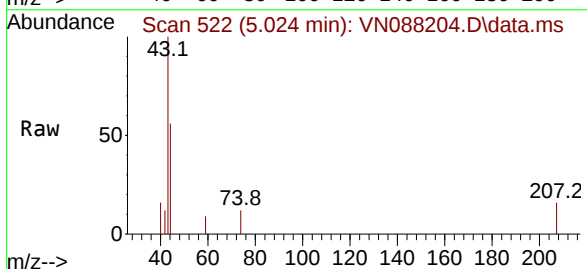
Instrument :
MSVOA_N
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MW-17-SOIL

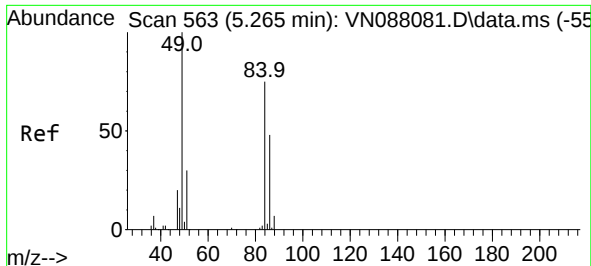
Tgt Ion: 43 Resp: 38449
Ion Ratio Lower Upper
43 100
58 32.7 22.6 33.8



#18
Methyl Acetate
Concen: 1.271 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Tgt Ion: 43 Resp: 6392
Ion Ratio Lower Upper
43 100
74 12.5 17.6 26.4#

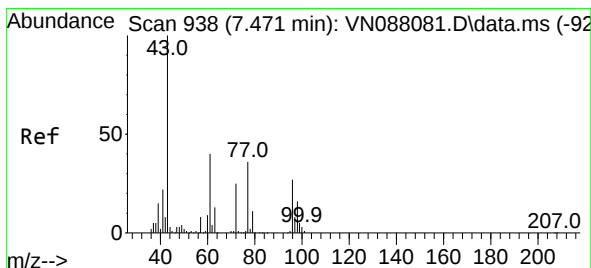
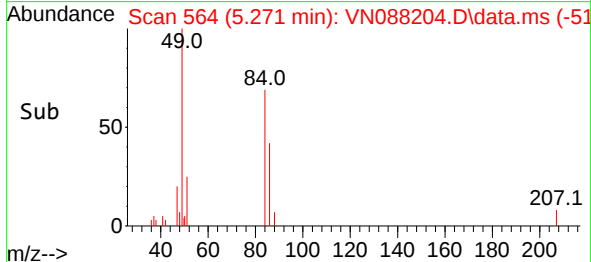
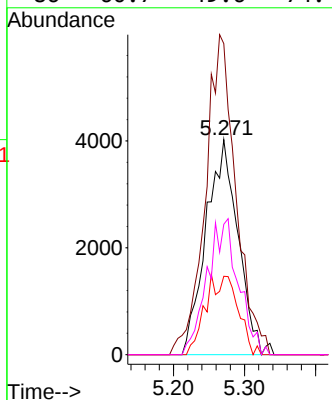
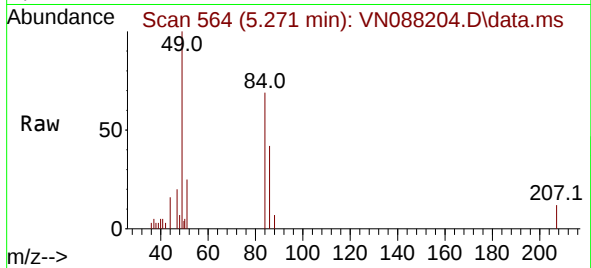




#20
Methylene Chloride
Concen: 3.061 ug/l
RT: 5.271 min Scan# 50
Delta R.T. 0.006 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

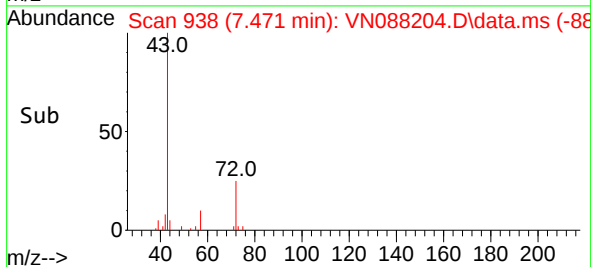
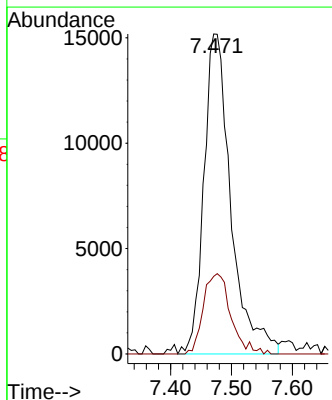
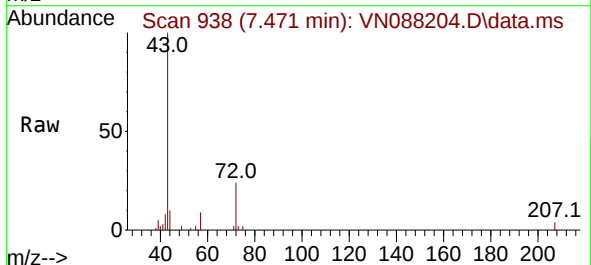
Instrument :
MSVOA_N
ClientSampleId :
MW-17-SOIL

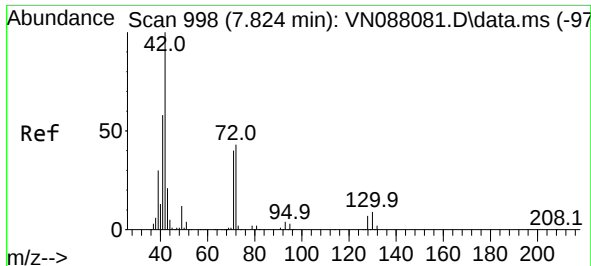
Tgt Ion:	84	Resp:	12619
Ion	Ratio	Lower	Upper
84	100		
49	144.6	103.4	155.2
51	36.4	33.8	50.8
86	60.7	49.6	74.4



#25
2-Butanone
Concen: 14.454 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

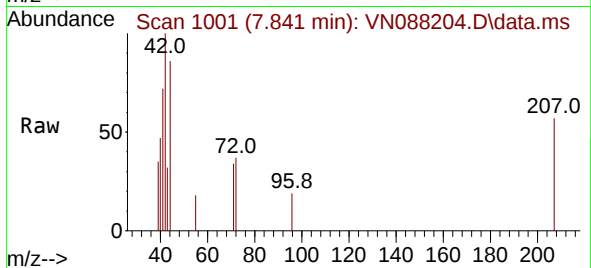
Tgt Ion:	43	Resp:	46784
Ion	Ratio	Lower	Upper
43	100		
72	24.2	19.9	29.9



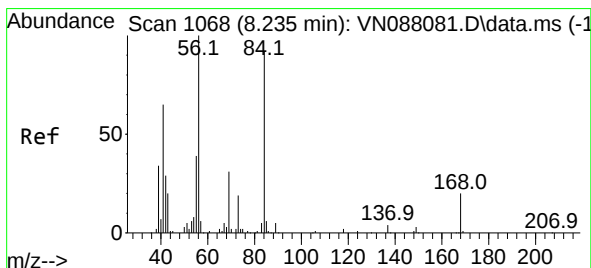
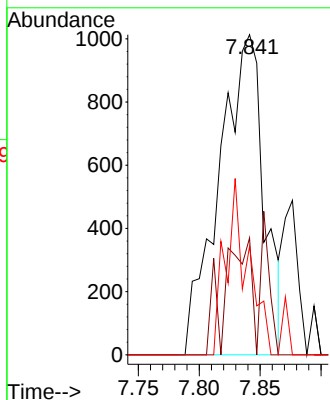
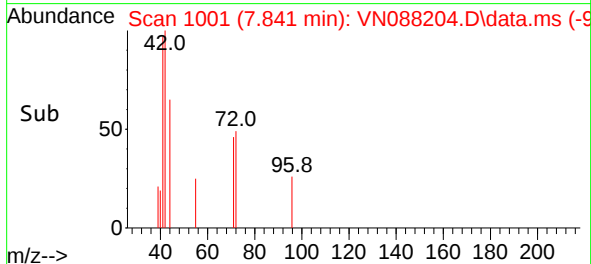


#29
Tetrahydrofuran
Concen: 1.227 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.017 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
MW-17-SOIL

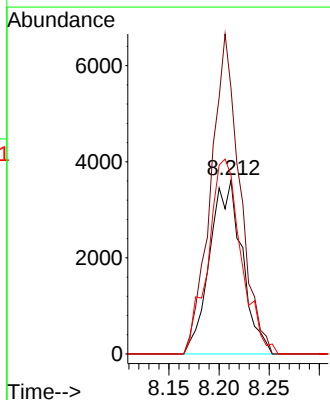
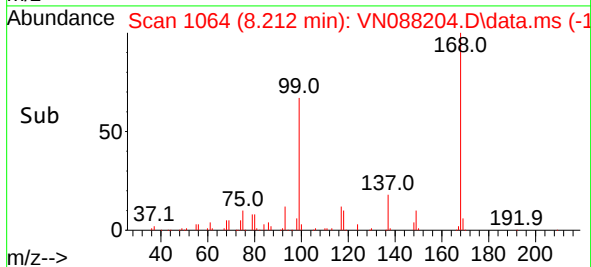
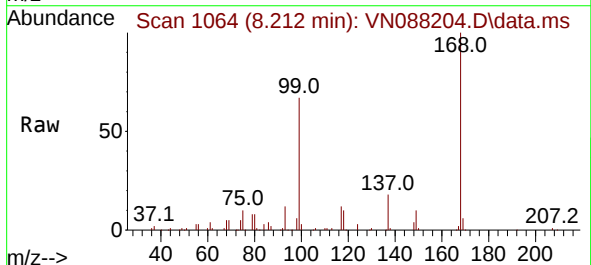


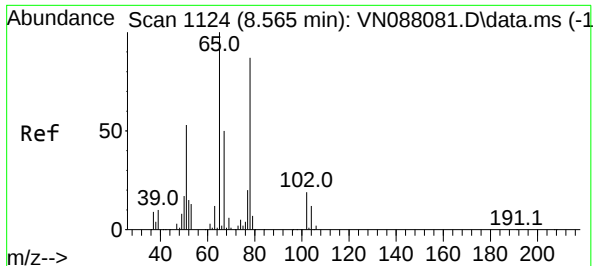
Tgt Ion: 42 Resp: 2589
Ion Ratio Lower Upper
42 100
72 22.0 33.7 50.5#
71 27.5 31.9 47.9#



#31
Cyclohexane
Concen: 1.187 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.024 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Tgt Ion: 56 Resp: 8120
Ion Ratio Lower Upper
56 100
69 153.0 23.7 35.5#
84 103.0 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 63.222 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088204.D

Acq: 06 Nov 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

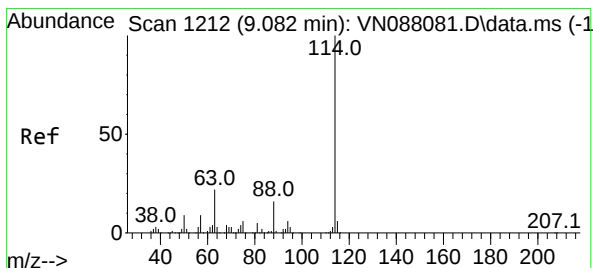
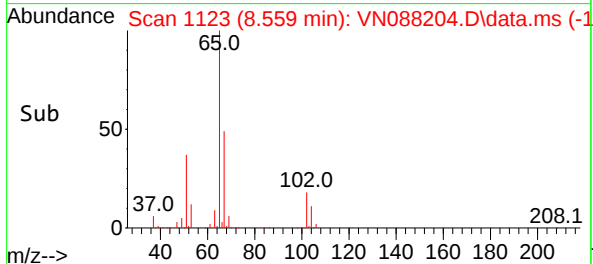
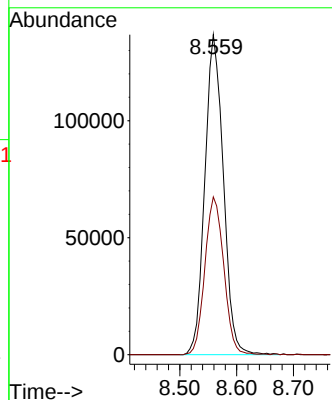
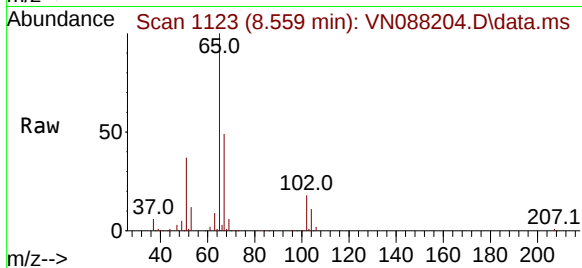
MW-17-SOIL

Tgt Ion: 65 Resp: 309078

Ion Ratio Lower Upper

65 100

67 50.3 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088204.D

Acq: 06 Nov 2025 14:29

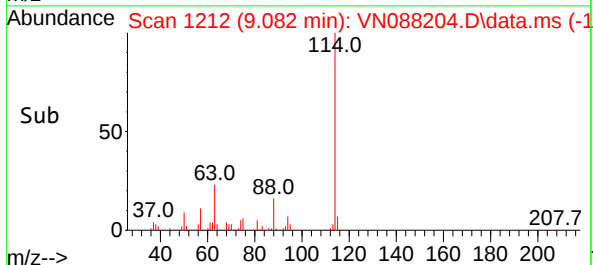
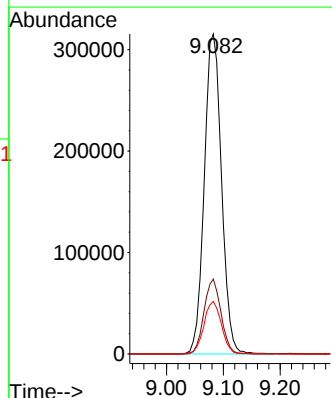
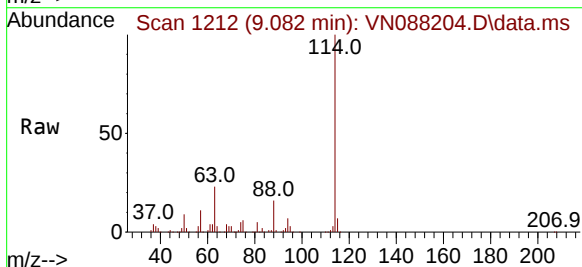
Tgt Ion: 114 Resp: 663418

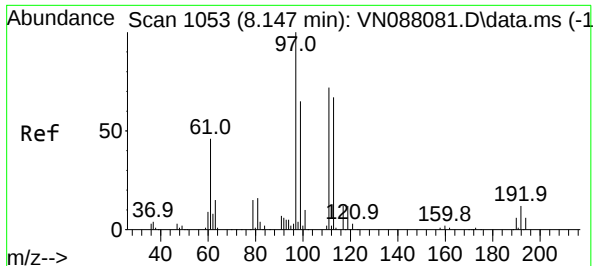
Ion Ratio Lower Upper

114 100

63 23.4 0.0 45.2

88 16.4 0.0 33.4

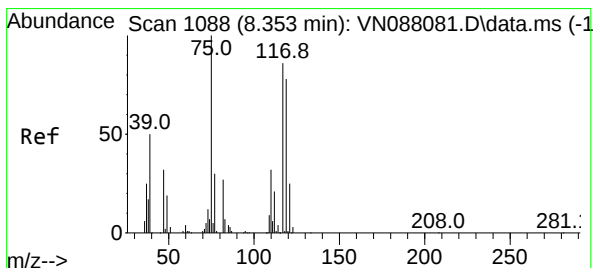
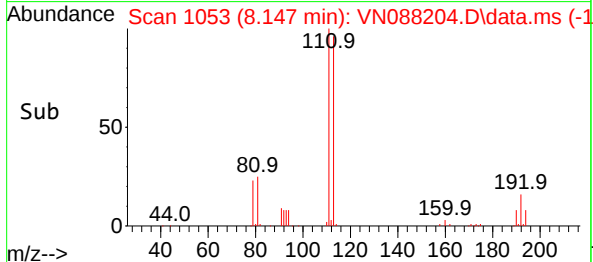
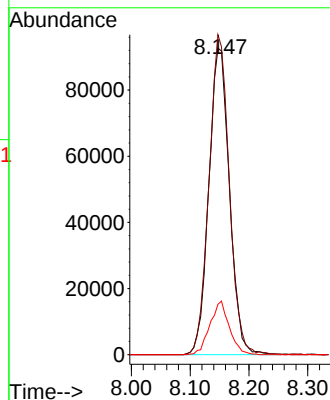
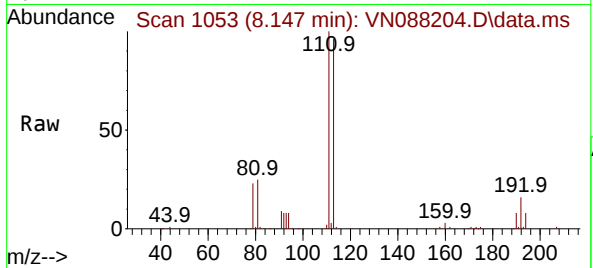




#35
Dibromofluoromethane
Concen: 50.762 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

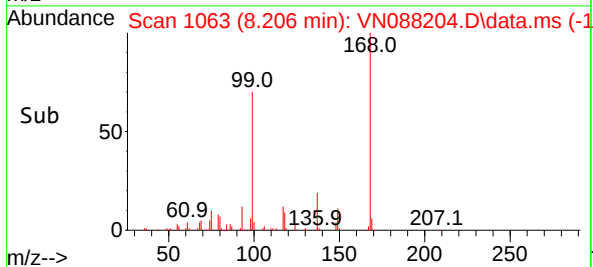
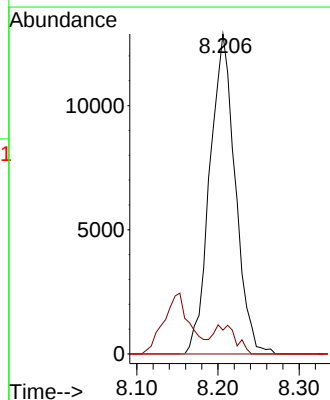
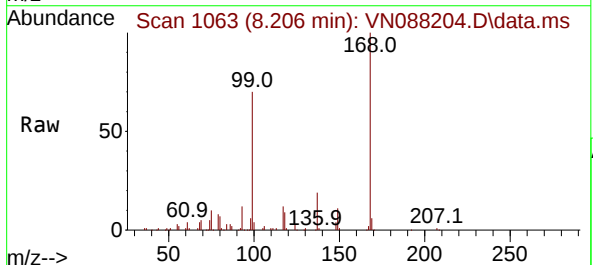
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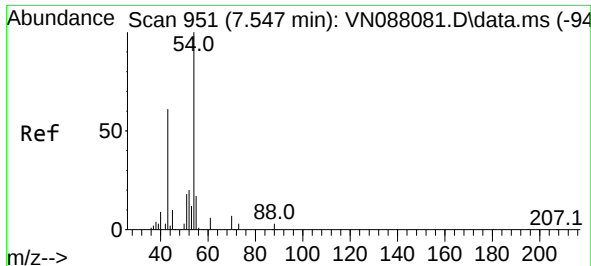
Tgt Ion:113 Resp: 226242
Ion Ratio Lower Upper
113 100
111 102.7 82.8 124.2
192 16.4 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.312 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Tgt Ion: 75 Resp: 28060
Ion Ratio Lower Upper
75 100
110 7.7 15.9 47.6#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 5.571 ug/l

RT: 7.471 min Scan# 91

Delta R.T. -0.077 min

Lab File: VN088204.D

Acq: 06 Nov 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

MW-17-SOIL

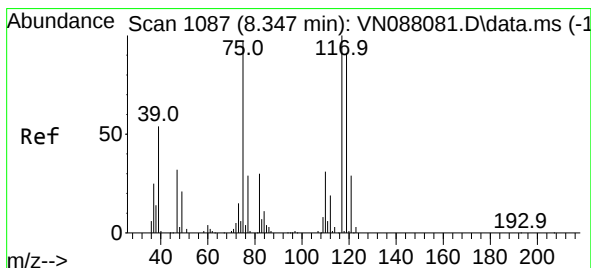
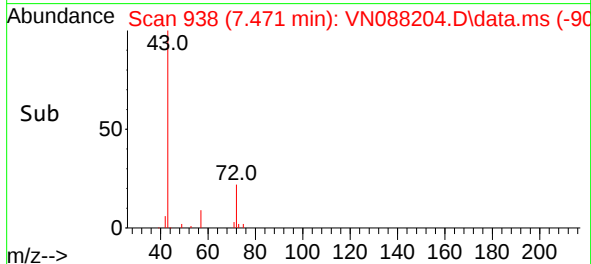
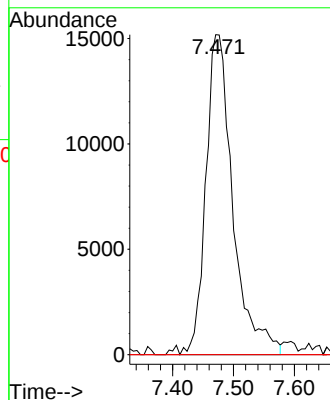
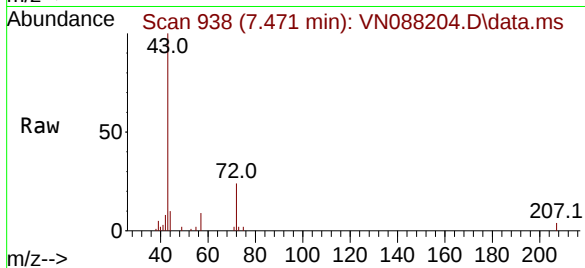
Tgt Ion: 43 Resp: 46784

Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 4.929 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN088204.D

Acq: 06 Nov 2025 14:29

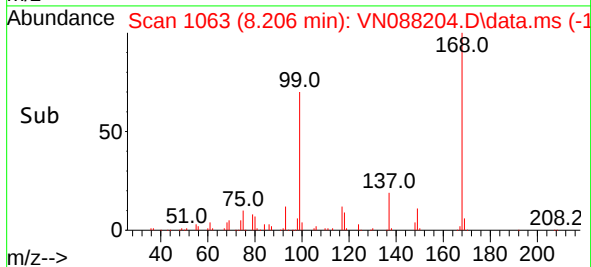
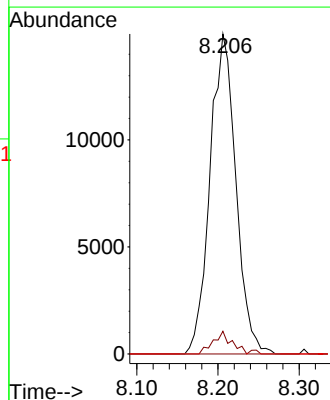
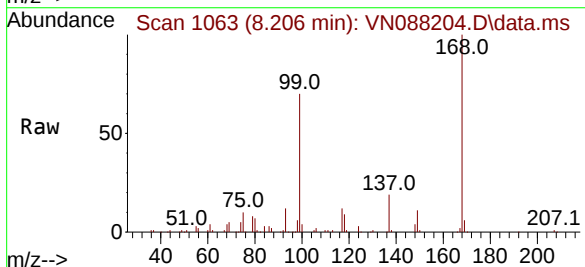
Tgt Ion: 117 Resp: 33128

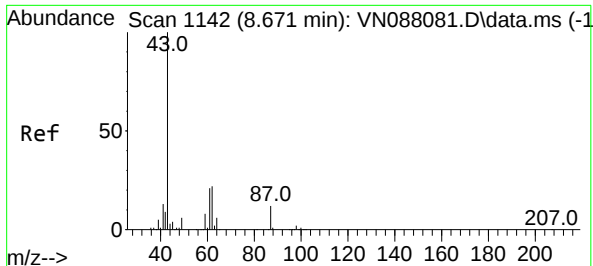
Ion Ratio Lower Upper

117 100

119 7.1 79.0 118.6#

121 0.0 25.0 37.6#

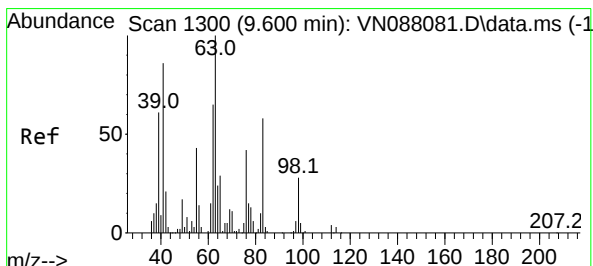
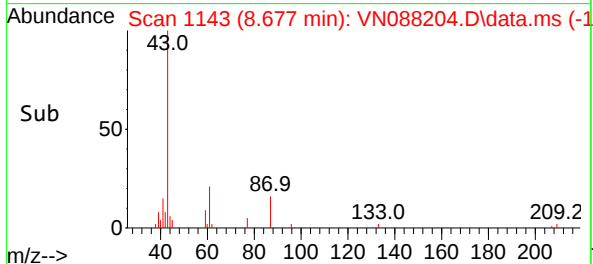
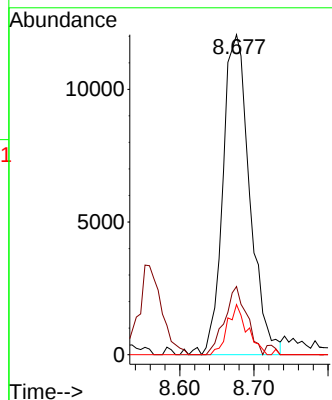
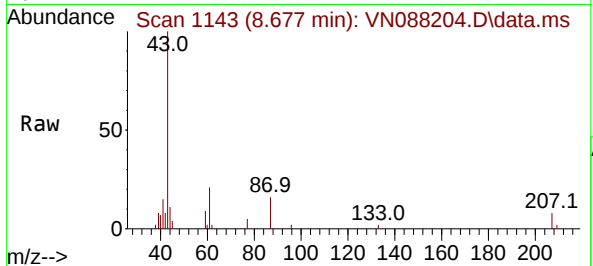




#43
Isopropyl Acetate
Concen: 2.354 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

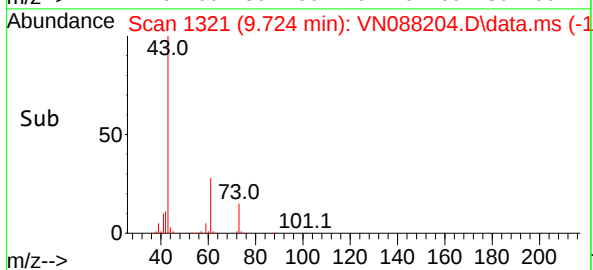
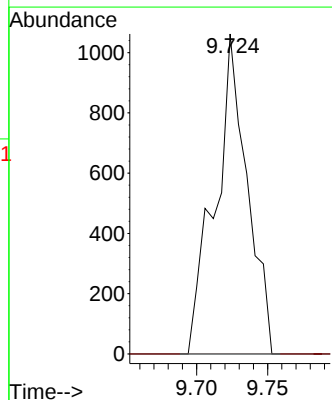
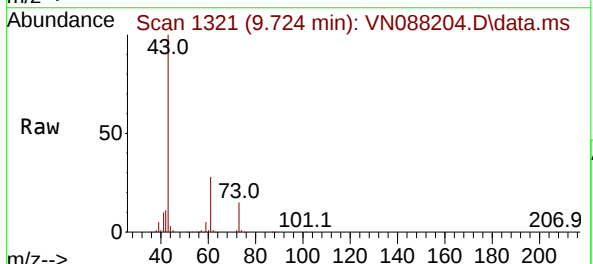
Instrument :
MSVOA_N
ClientSampleId :
MW-17-SOIL

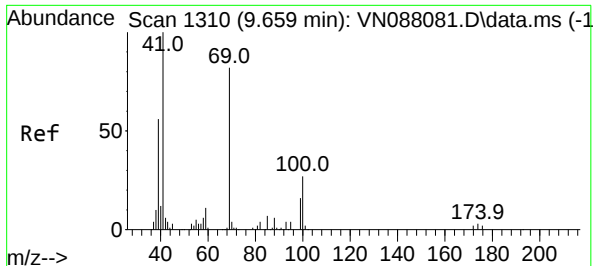
Tgt Ion: 43 Resp: 30379
Ion Ratio Lower Upper
43 100
61 17.5 18.8 28.2#
87 11.6 9.6 14.4



#45
1,2-Dichloropropane
Concen: 0.334 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.123 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Tgt Ion: 63 Resp: 1672
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#





#48

Methyl methacrylate

Concen: 0.836 ug/l

RT: 9.647 min Scan# 1

Delta R.T. -0.018 min

Lab File: VN088204.D

Acq: 06 Nov 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

MW-17-SOIL

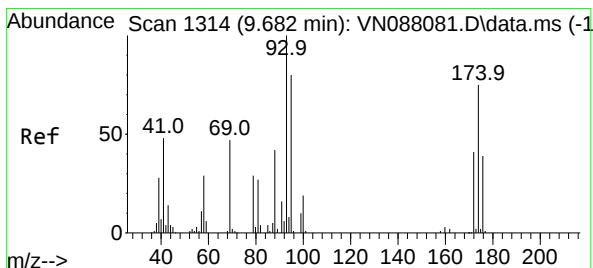
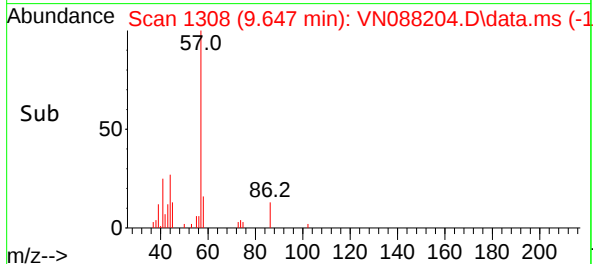
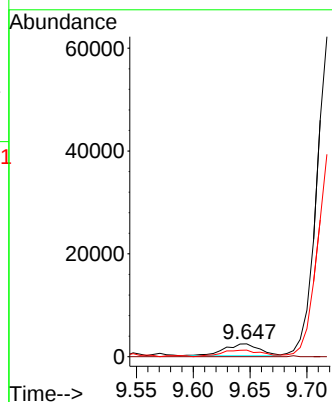
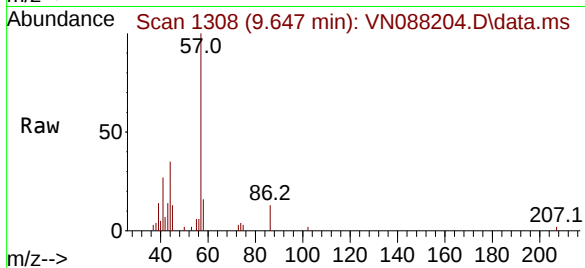
Tgt Ion: 41 Resp: 4982

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 64.0 52.9 79.3



#49

1,4-Dioxane

Concen: 2.281 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.041 min

Lab File: VN088204.D

Acq: 06 Nov 2025 14:29

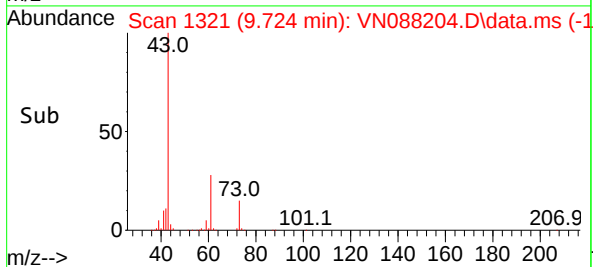
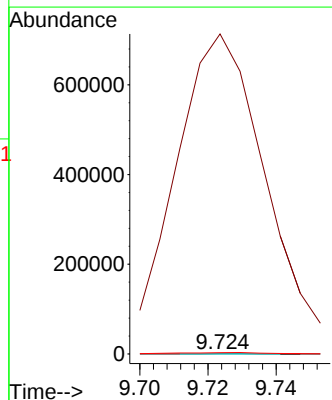
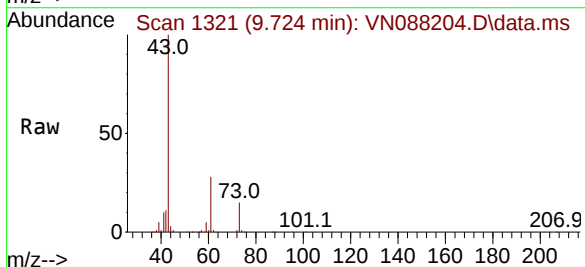
Tgt Ion: 88 Resp: 169

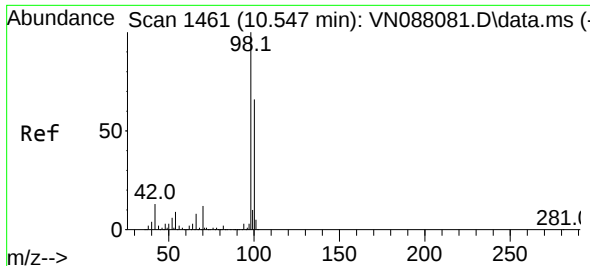
Ion Ratio Lower Upper

88 100

43 812384.6 0.0 0.0#

58 3699.4 57.9 86.9#

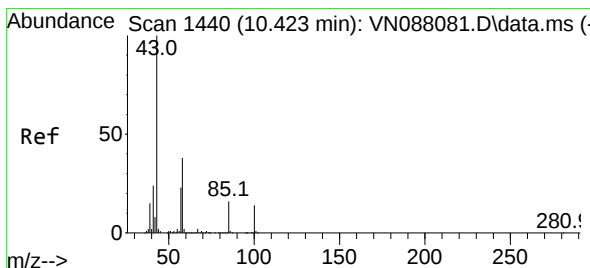
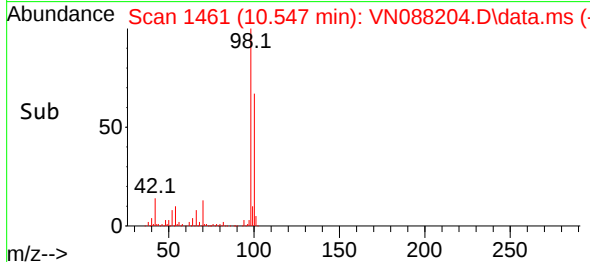
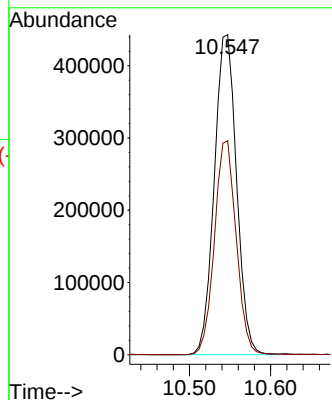
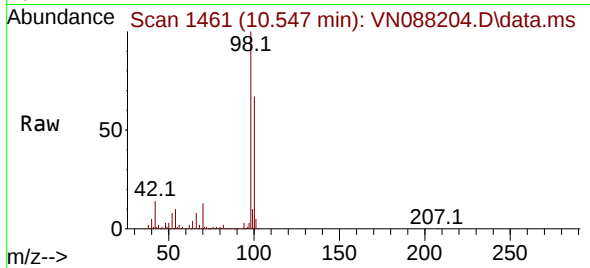




#50
Toluene-d8
Concen: 49.201 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

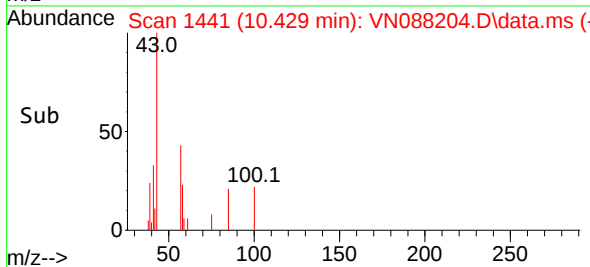
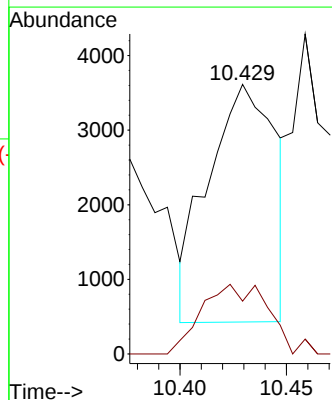
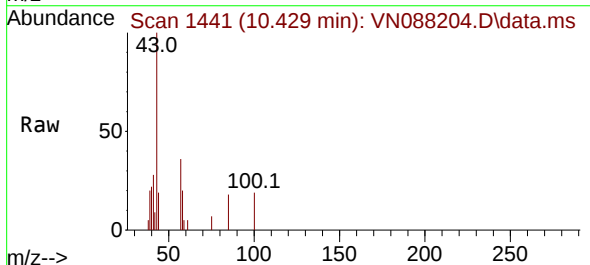
Instrument :
MSVOA_N
ClientSampleId :
MW-17-SOIL

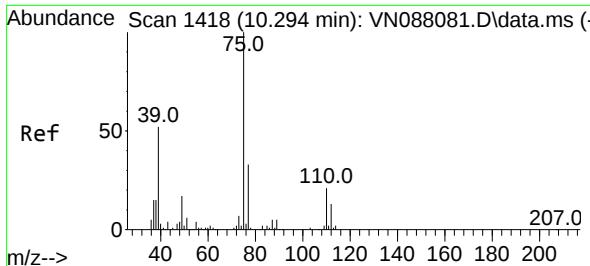
Tgt Ion: 98 Resp: 844931
Ion Ratio Lower Upper
98 100
100 65.3 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.911 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Tgt Ion: 43 Resp: 6954
Ion Ratio Lower Upper
43 100
58 29.5 29.6 44.4#

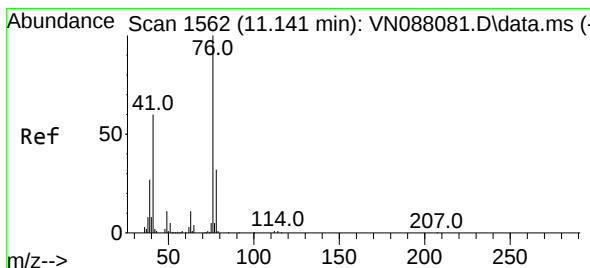
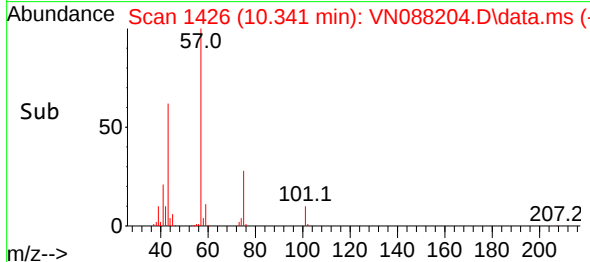
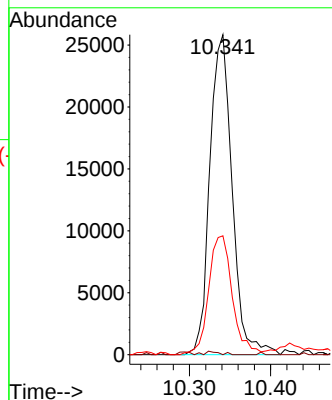
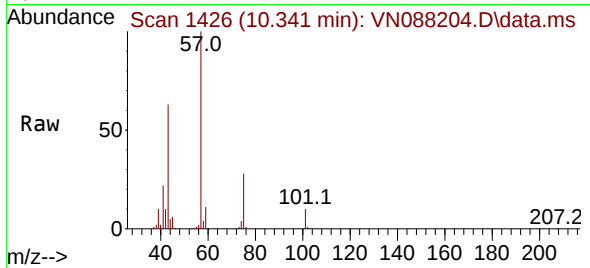




#54
 cis-1,3-Dichloropropene
 Concen: 6.115 ug/l
 RT: 10.341 min Scan# 1418
 Delta R.T. 0.053 min
 Lab File: VN088204.D
 Acq: 06 Nov 2025 14:29

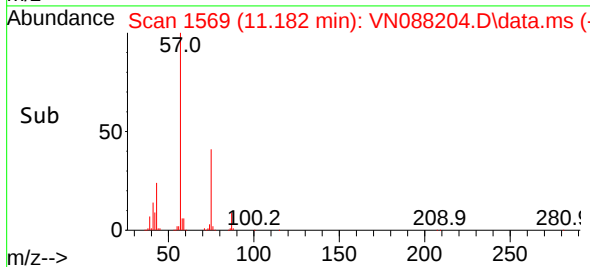
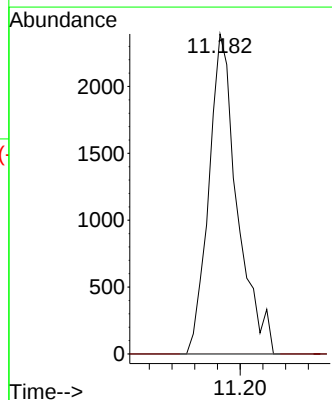
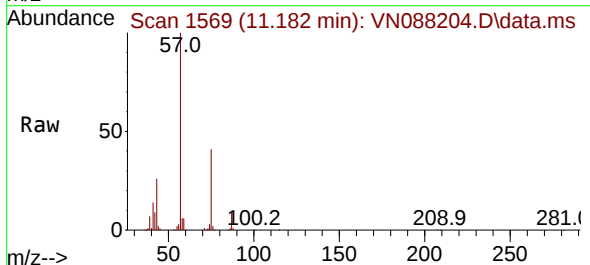
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17-SOIL

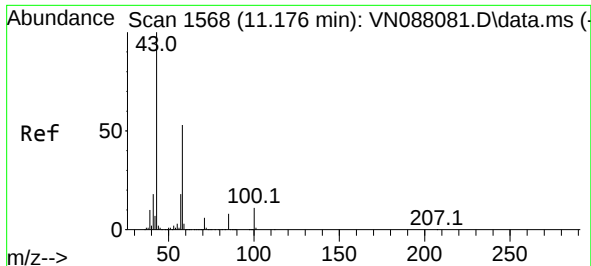
Tgt Ion: 75 Resp: 49341
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 37.1 45.2 67.8#



#57
 1,3-Dichloropropane
 Concen: 0.511 ug/l
 RT: 11.182 min Scan# 1569
 Delta R.T. 0.041 min
 Lab File: VN088204.D
 Acq: 06 Nov 2025 14:29

Tgt Ion: 76 Resp: 4160
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

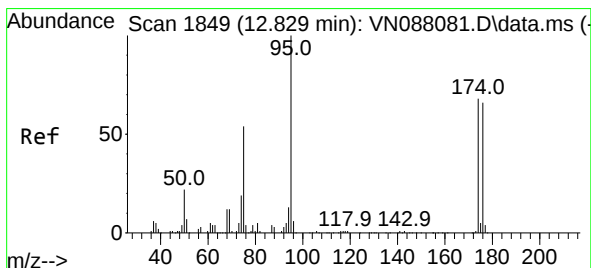
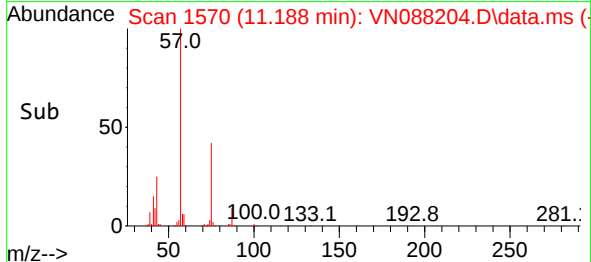
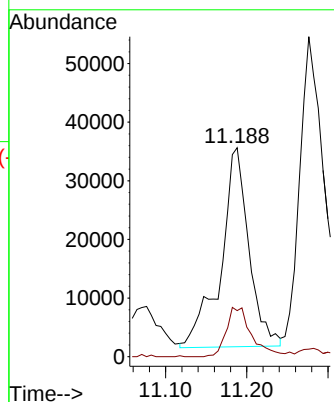
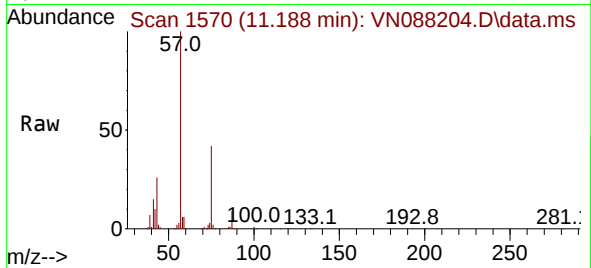




#59
2-Hexanone
Concen: 16.179 ug/l
RT: 11.188 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

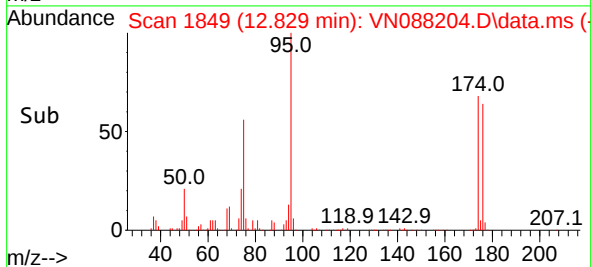
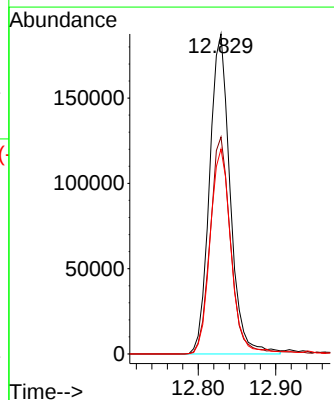
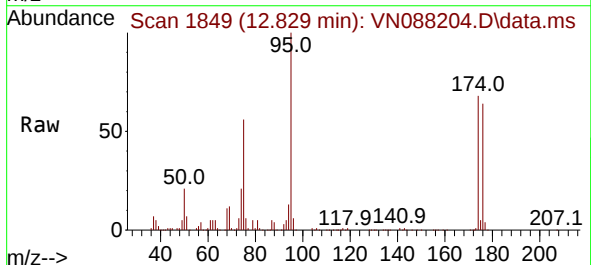
Instrument :
MSVOA_N
ClientSampleId :
MW-17-SOIL

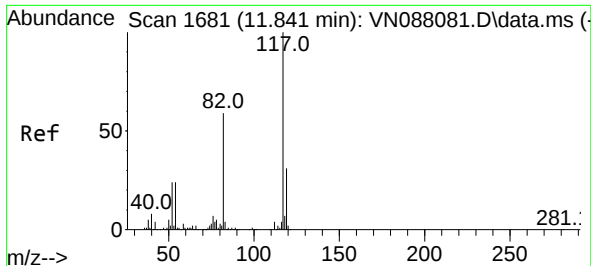
Tgt Ion: 43 Resp: 81936
Ion Ratio Lower Upper
43 100
58 22.2 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 57.061 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Tgt Ion: 95 Resp: 346067
Ion Ratio Lower Upper
95 100
174 68.0 0.0 138.4
176 64.8 0.0 132.6

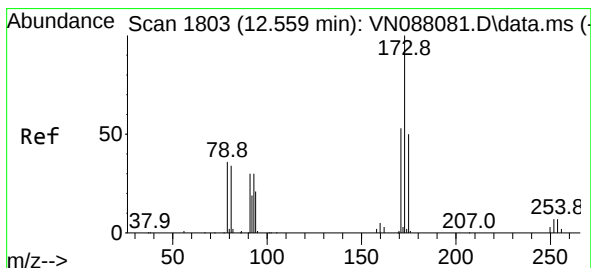
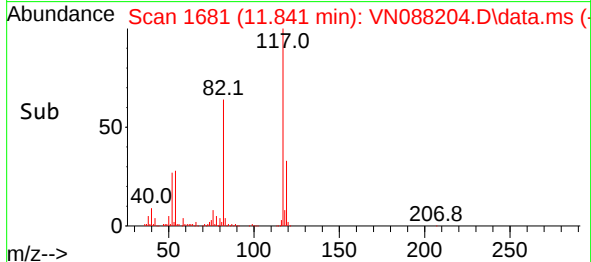
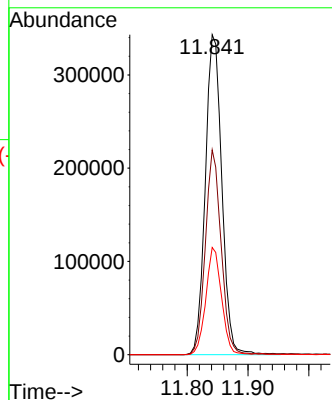
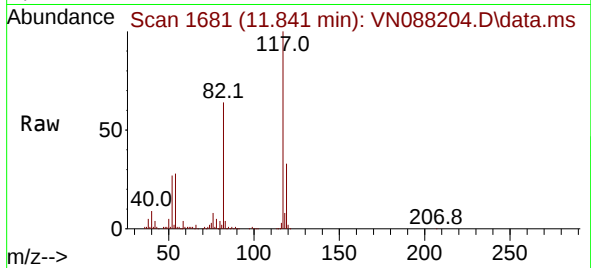




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

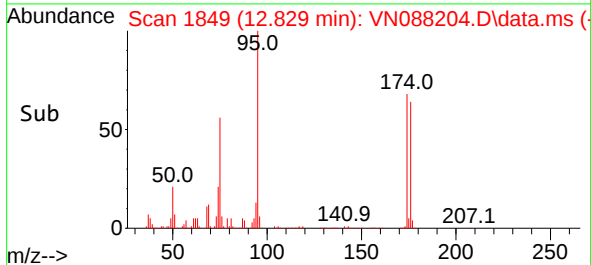
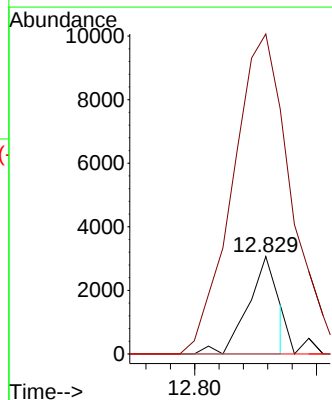
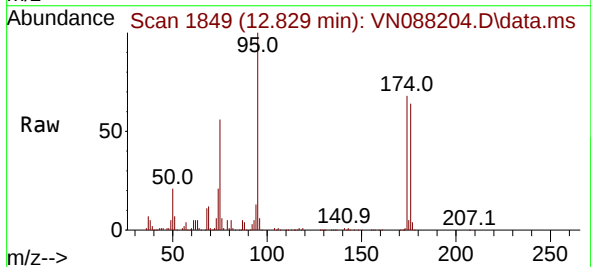
Instrument :
MSVOA_N
ClientSampleId :
MW-17-SOIL

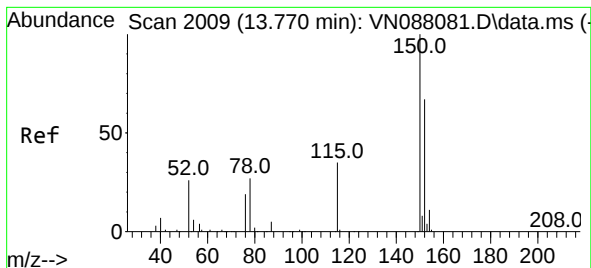
Tgt Ion:117 Resp: 645443
Ion Ratio Lower Upper
117 100
82 64.0 47.4 71.2
119 33.5 24.3 36.5



#71
Bromoform
Concen: 0.732 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.270 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Tgt Ion:173 Resp: 2622
Ion Ratio Lower Upper
173 100
175 526.4 24.9 74.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088204.D

Acq: 06 Nov 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

MW-17-SOIL

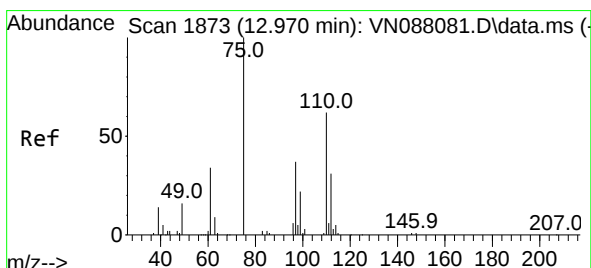
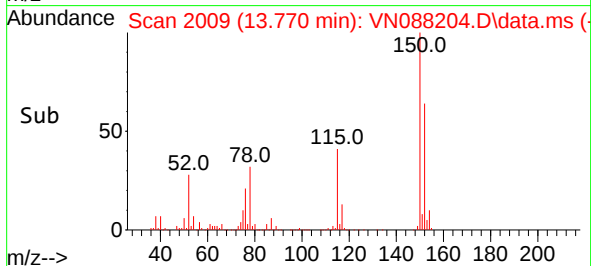
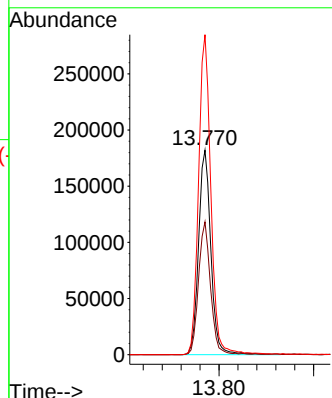
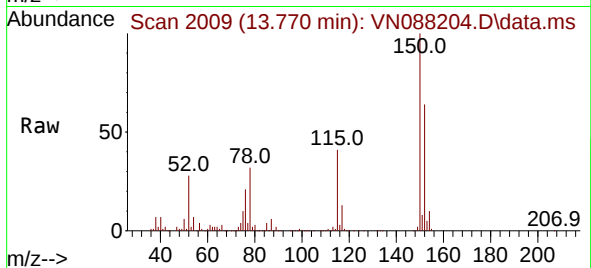
Tgt Ion:152 Resp: 328310

Ion Ratio Lower Upper

152 100

115 63.6 32.3 96.8

150 155.9 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 26.724 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088204.D

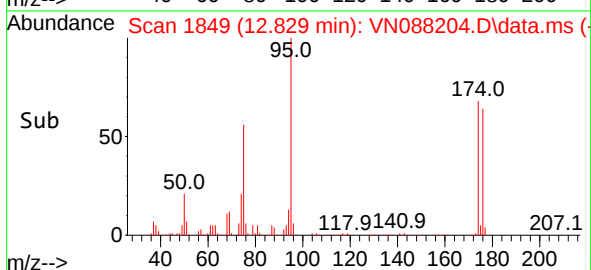
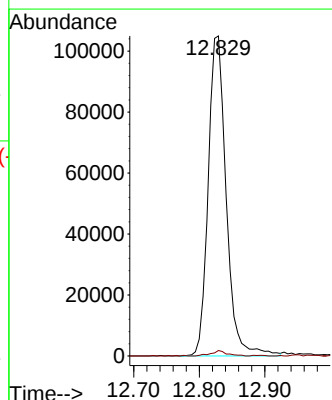
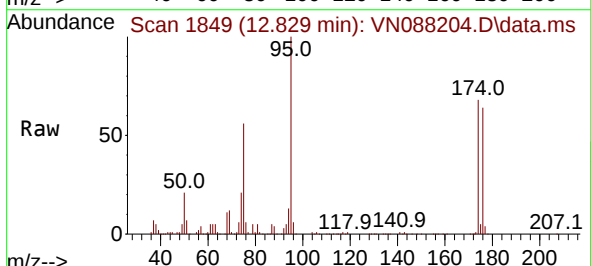
Acq: 06 Nov 2025 14:29

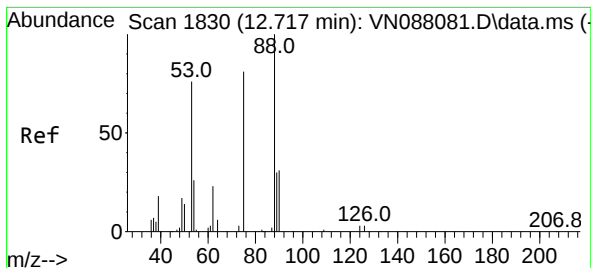
Tgt Ion: 75 Resp: 200597

Ion Ratio Lower Upper

75 100

77 1.5 89.1 267.4#

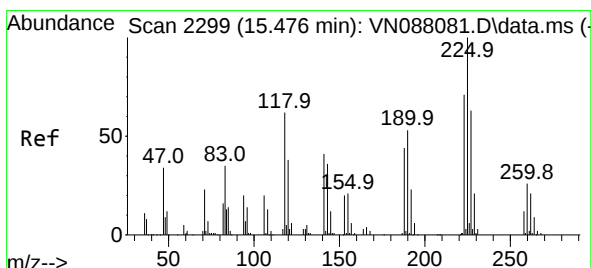
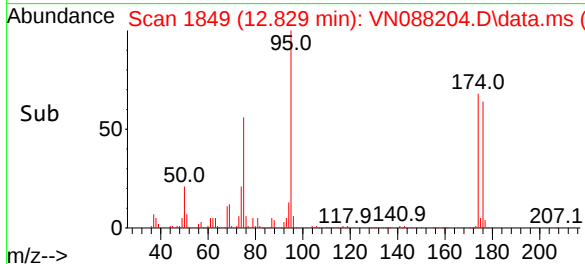
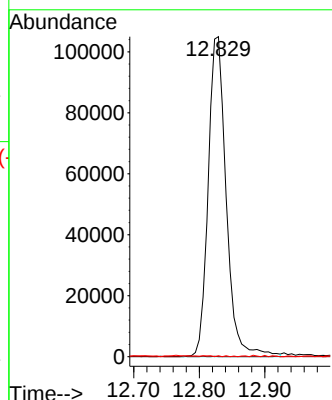
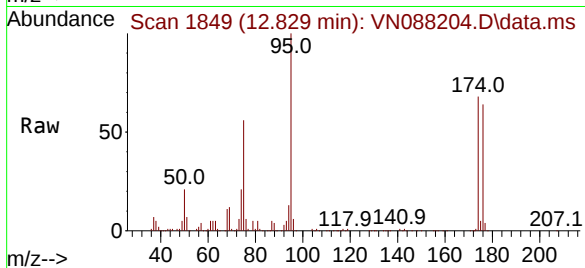




#81
trans-1,4-Dichloro-2-butene
Concen: 74.548 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
MW-17-SOIL

Tgt Ion: 75 Resp: 200597
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.1 35.6 53.4#



#94
Hexachlorobutadiene
Concen: 0.284 ug/l
RT: 15.482 min Scan# 2300
Delta R.T. 0.006 min
Lab File: VN088204.D
Acq: 06 Nov 2025 14:29

Tgt Ion: 225 Resp: 672
Ion Ratio Lower Upper
225 100
223 23.4 32.0 96.2#
227 17.0 32.1 96.5#

