

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090825\
 Data File : VN087760.D
 Acq On : 08 Sep 2025 14:42
 Operator : JC\MD
 Sample : Q3032-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE-2

Quant Time: Sep 09 02:29:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

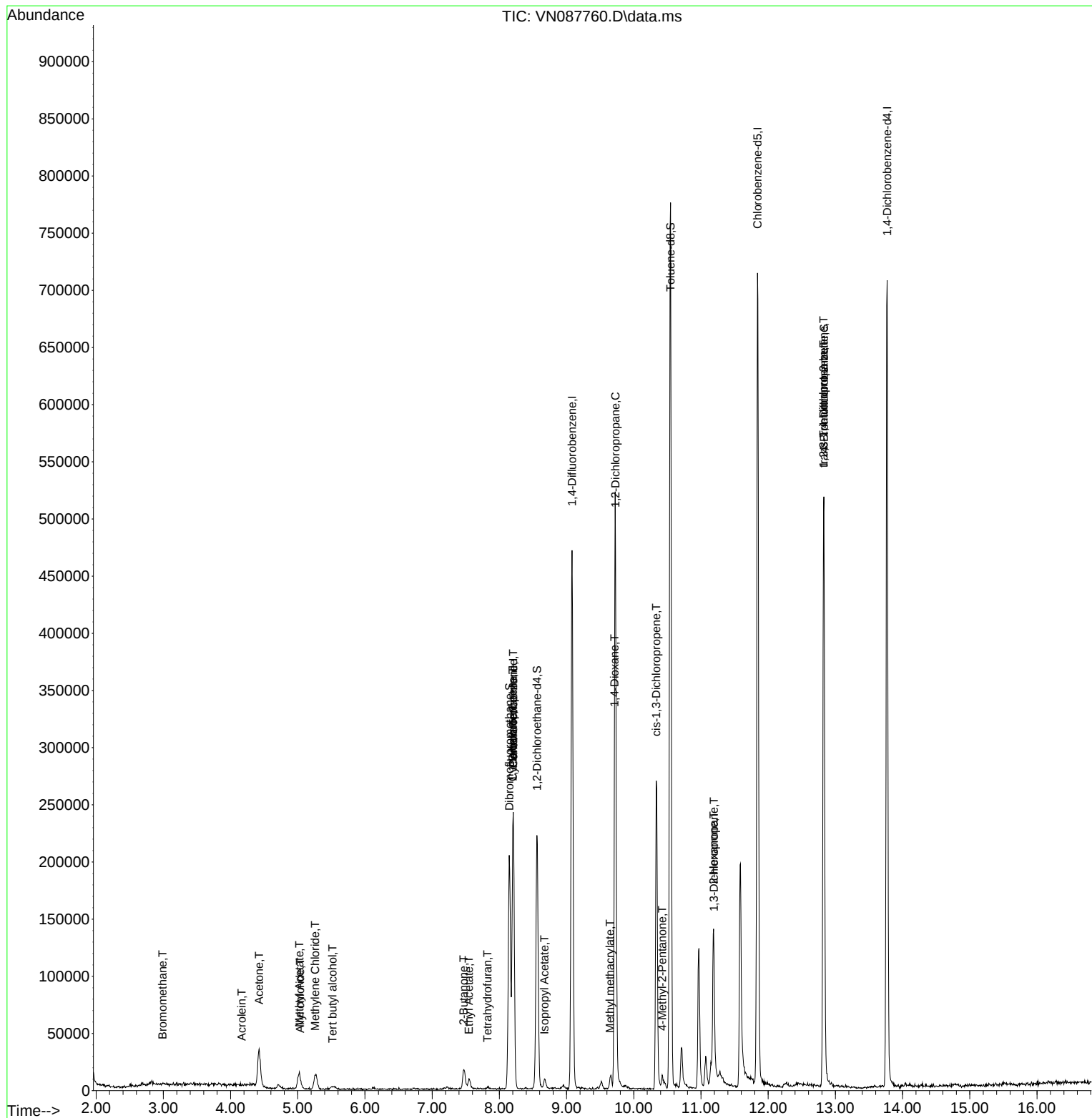
Internal Standards						
1) Pentafluorobenzene	8.206	168	159239	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	389686	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	380890	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	180770	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	181221	55.545	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.080%			
35) Dibromofluoromethane	8.147	113	145598	51.749	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.500%			
50) Toluene-d8	10.547	98	521403	49.514	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.020%			
62) 4-Bromofluorobenzene	12.829	95	181031	48.340	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.680%			
Target Compounds						Qvalue
5) Bromomethane	2.989	94	383	0.275	ug/l #	48
11) Tert butyl alcohol	5.518	59	2891	5.104	ug/l #	77
13) Acrolein	4.165	56	149	0.214	ug/l #	14
14) Allyl chloride	5.036	41	1023	0.246	ug/l #	29
16) Acetone	4.424	43	61220	34.469	ug/l	92
18) Methyl Acetate	5.024	43	30099	8.094	ug/l	100
20) Methylene Chloride	5.259	84	9689	2.595	ug/l	95
25) 2-Butanone	7.471	43	30576	13.085	ug/l	95
29) Tetrahydrofuran	7.824	42	1047	0.696	ug/l #	55
31) Cyclohexane	8.200	56	4782	1.165	ug/l #	28
36) 1,1-Dichloropropene	8.200	75	17024	3.944	ug/l #	52
37) Ethyl Acetate	7.547	43	14840	2.516	ug/l	98
38) Carbon Tetrachloride	8.206	117	19991	4.691	ug/l #	18
43) Isopropyl Acetate	8.671	43	10190	1.107	ug/l #	89
45) 1,2-Dichloropropane	9.729	63	727	0.208	ug/l #	43
48) Methyl methacrylate	9.647	41	1624	0.373	ug/l #	13
49) 1,4-Dioxane	9.712	88	68	1.204	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	5380	0.968	ug/l #	86
54) cis-1,3-Dichloropropene	10.335	75	49076	8.972	ug/l #	63
57) 1,3-Dichloropropane	11.194	76	1475	0.263	ug/l #	42
59) 2-Hexanone	11.188	43	31227	8.893	ug/l	65
76) 1,2,3-Trichloropropane	12.823	75	105067	24.785	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	105067	65.615	ug/l #	1

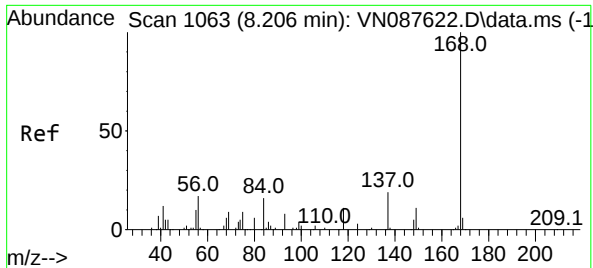
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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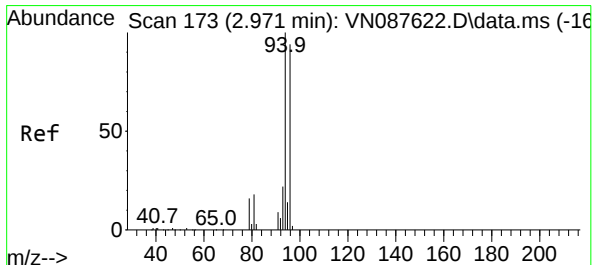
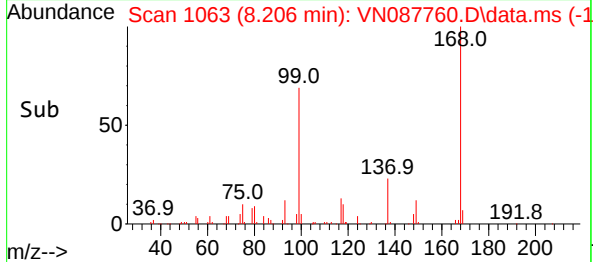
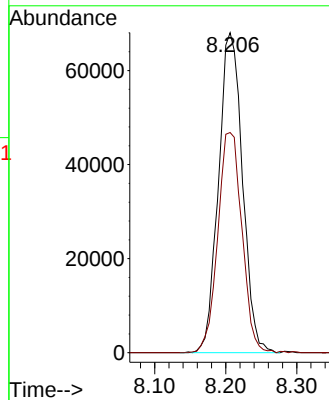
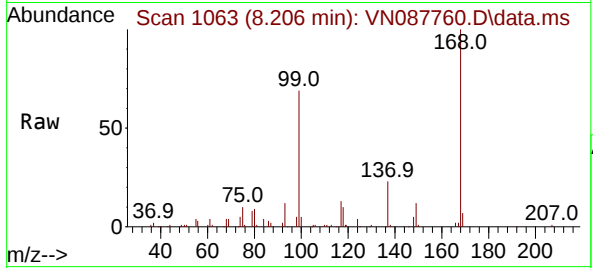




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

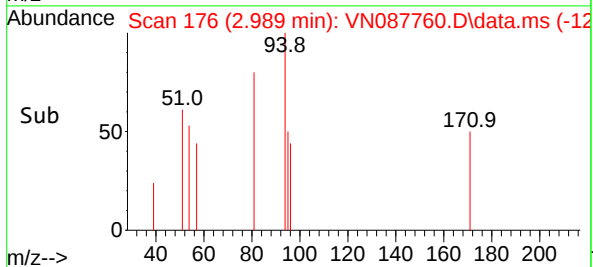
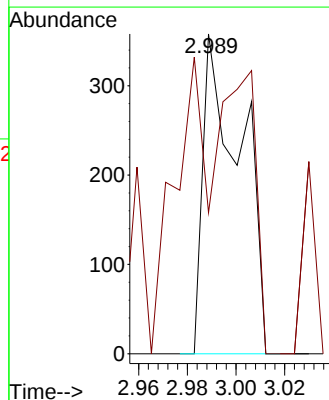
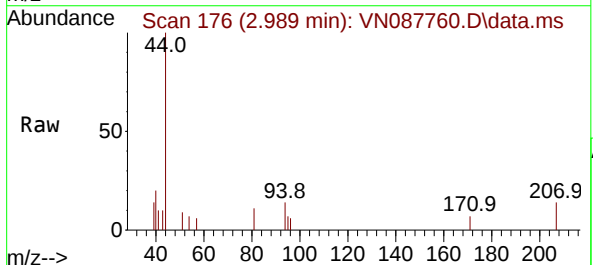
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-2

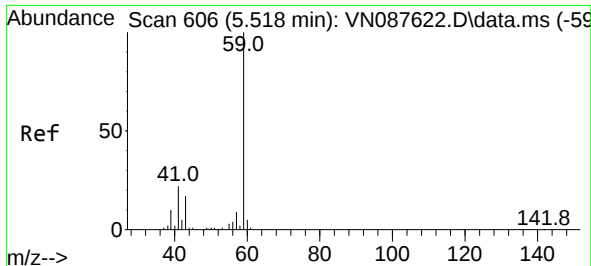
Tgt Ion:168 Resp: 159239
Ion Ratio Lower Upper
168 100
99 68.8 57.2 85.8



#5
Bromomethane
Concen: 0.275 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

Tgt Ion: 94 Resp: 383
Ion Ratio Lower Upper
94 100
96 44.1 75.4 113.2#

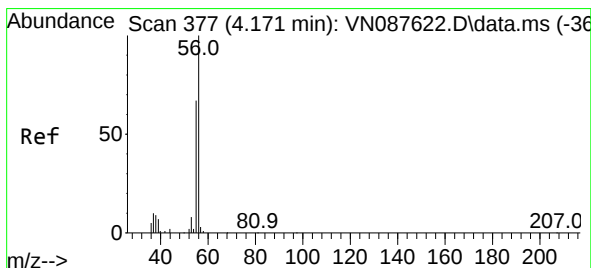
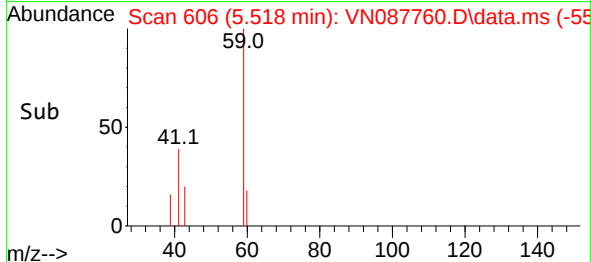
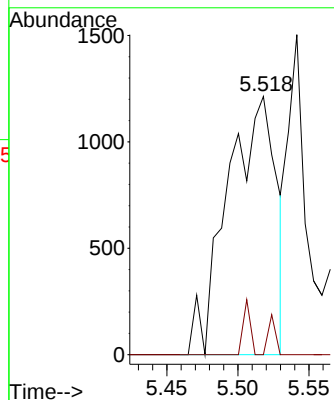
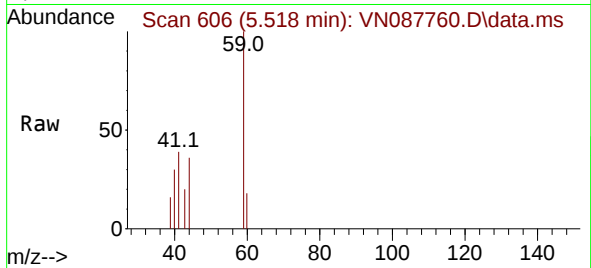




#11
Tert butyl alcohol
Concen: 5.104 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

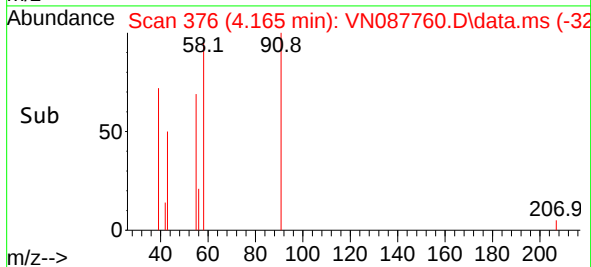
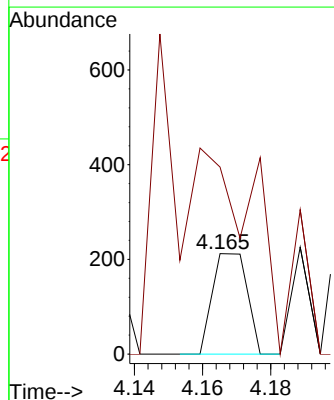
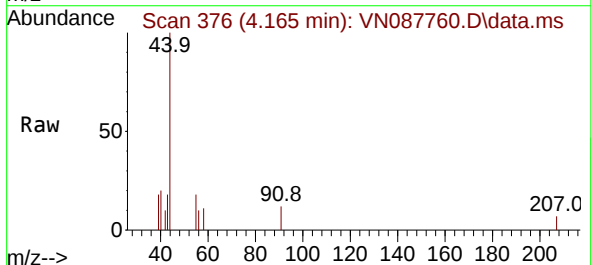
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-2

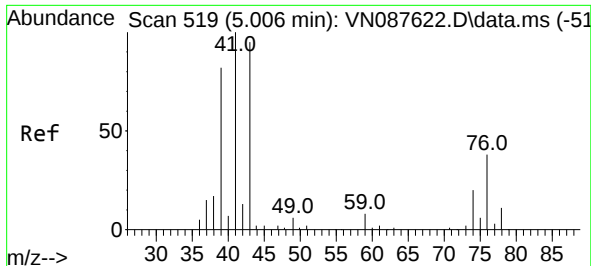
Tgt Ion: 59 Resp: 2891
Ion Ratio Lower Upper
59 100
57 2.3 9.0 13.4#



#13
Acrolein
Concen: 0.214 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.006 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

Tgt Ion: 56 Resp: 149
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#

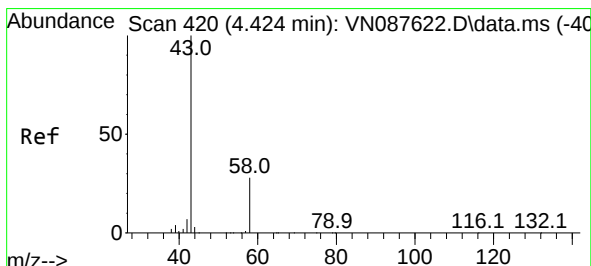
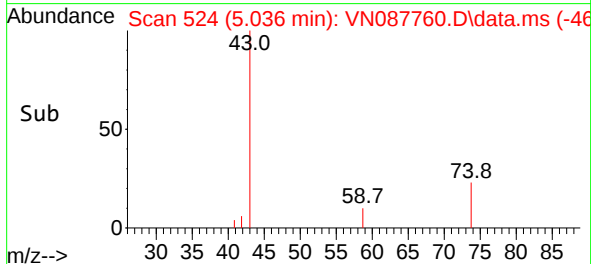
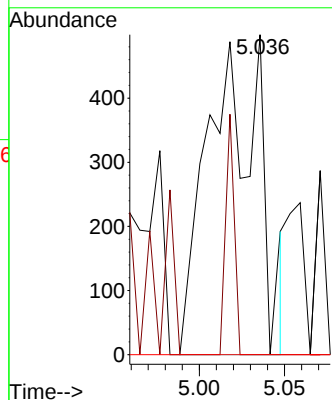
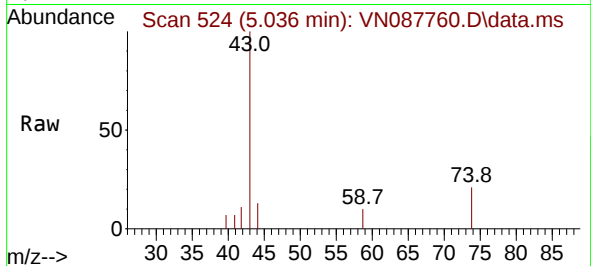




#14
 Allyl chloride
 Concen: 0.246 ug/l
 RT: 5.036 min Scan# 519
 Delta R.T. 0.029 min
 Lab File: VN087760.D
 Acq: 08 Sep 2025 14:42

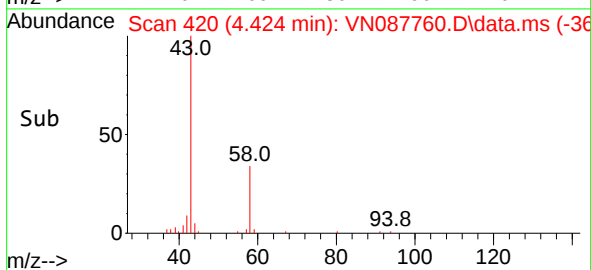
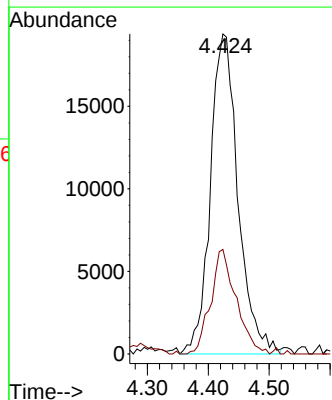
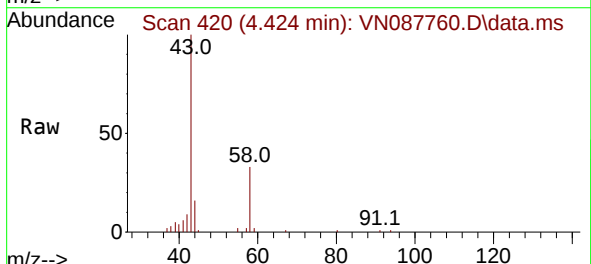
Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE-2

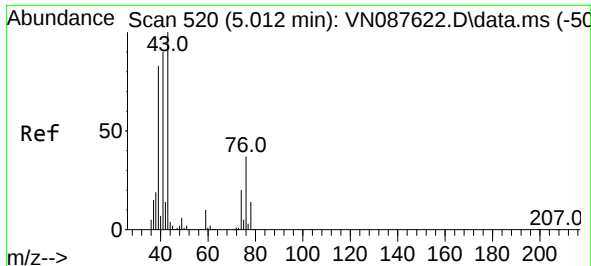
Tgt Ion: 41 Resp: 1023
 Ion Ratio Lower Upper
 41 100
 39 12.9 63.9 95.9#
 76 0.0 28.1 42.1#



#16
 Acetone
 Concen: 34.469 ug/l
 RT: 4.424 min Scan# 420
 Delta R.T. -0.000 min
 Lab File: VN087760.D
 Acq: 08 Sep 2025 14:42

Tgt Ion: 43 Resp: 61220
 Ion Ratio Lower Upper
 43 100
 58 32.6 22.6 33.8

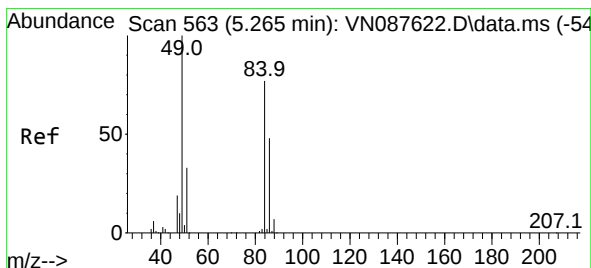
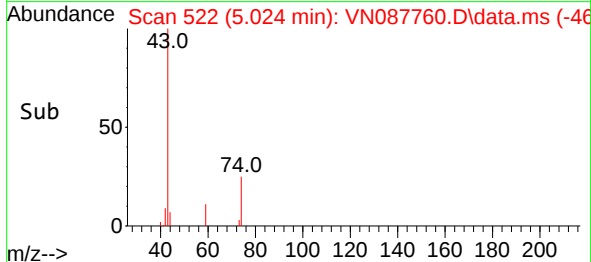
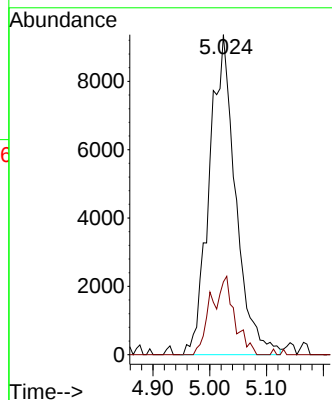
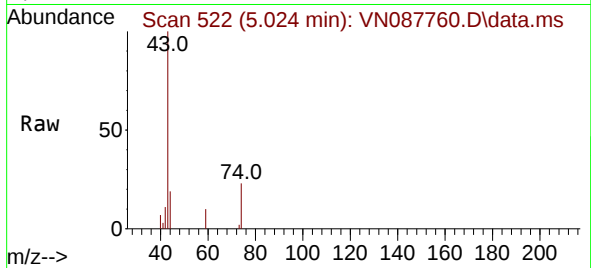




#18
Methyl Acetate
Concen: 8.094 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

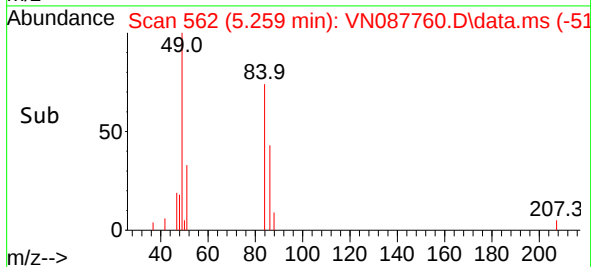
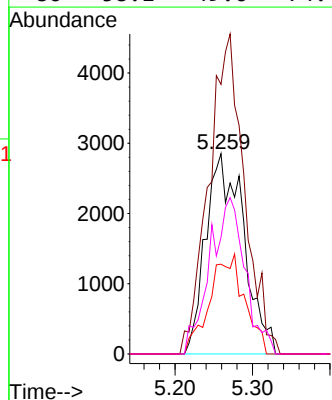
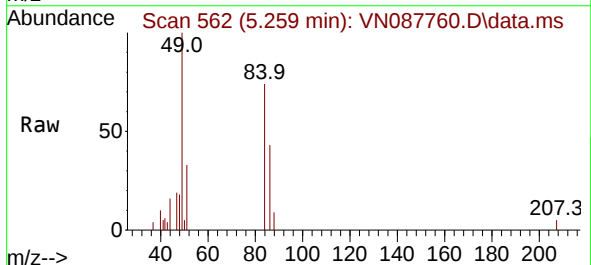
Instrument :
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ClientSampleId :
SOIL-PILE-2

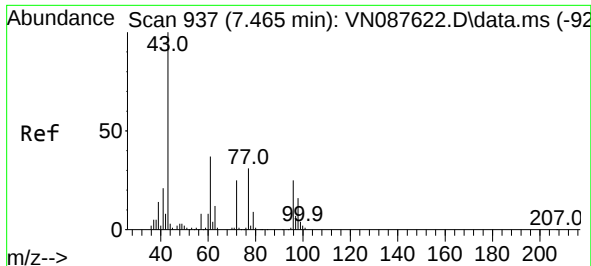
Tgt Ion: 43 Resp: 30099
Ion Ratio Lower Upper
43 100
74 21.9 17.6 26.4



#20
Methylene Chloride
Concen: 2.595 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

Tgt Ion: 84 Resp: 9689
Ion Ratio Lower Upper
84 100
49 134.6 103.4 155.2
51 44.8 33.8 50.8
86 58.1 49.6 74.4

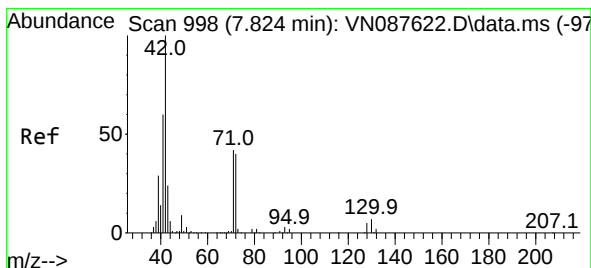
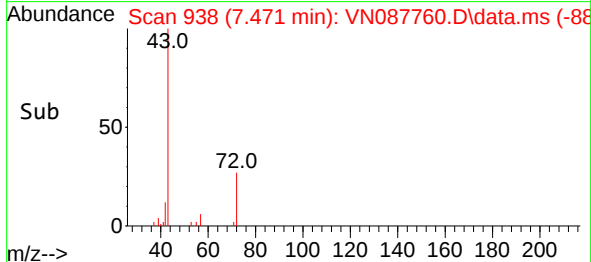
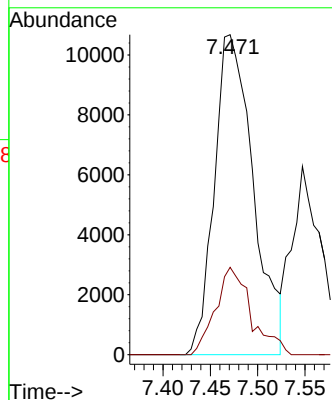
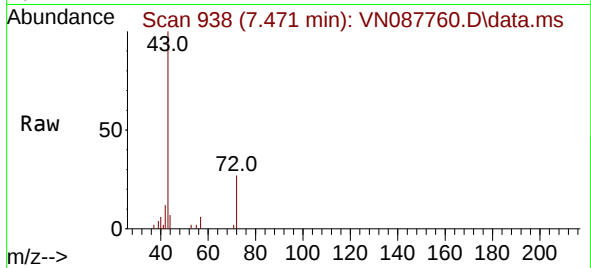




#25
2-Butanone
Concen: 13.085 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

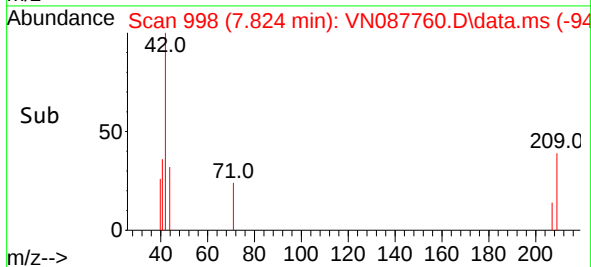
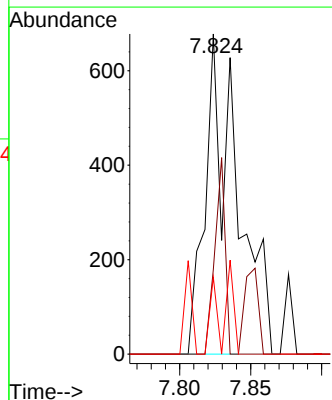
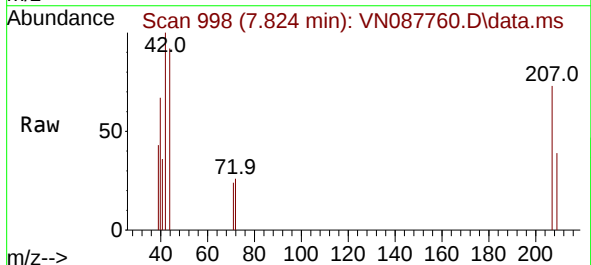
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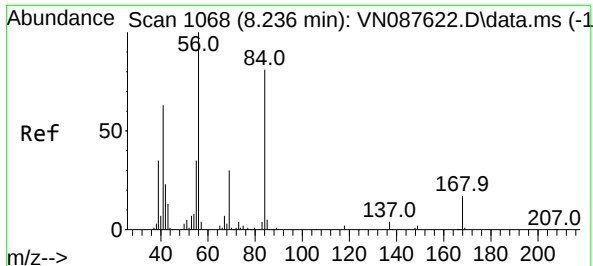
Tgt Ion: 43 Resp: 30576
Ion Ratio Lower Upper
43 100
72 27.3 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.696 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

Tgt Ion: 42 Resp: 1047
Ion Ratio Lower Upper
42 100
72 20.1 33.7 50.5#
71 5.5 31.9 47.9#

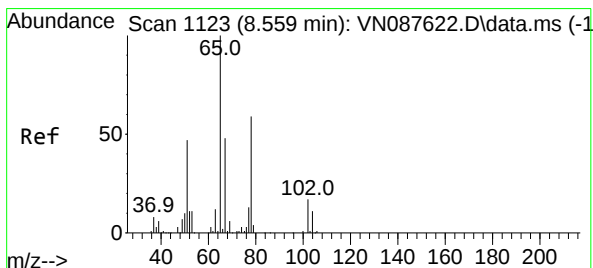
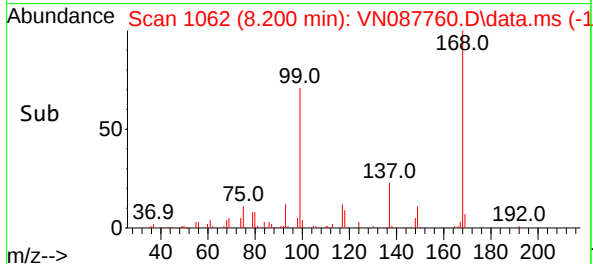
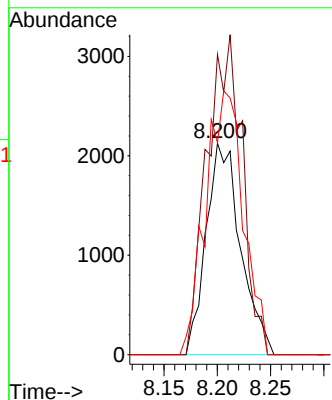
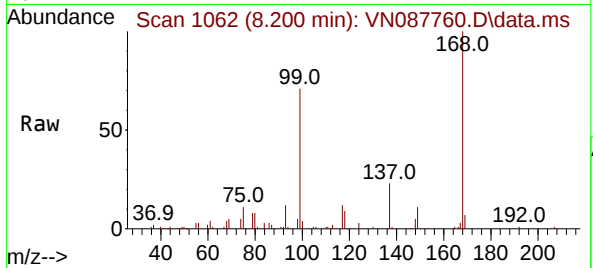




#31
Cyclohexane
Concen: 1.165 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

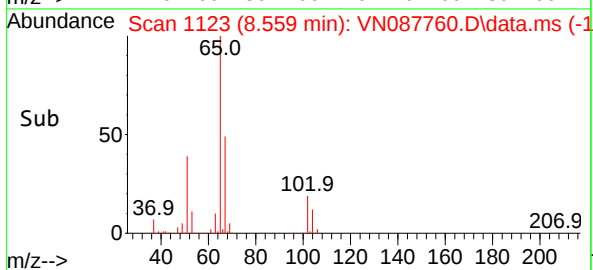
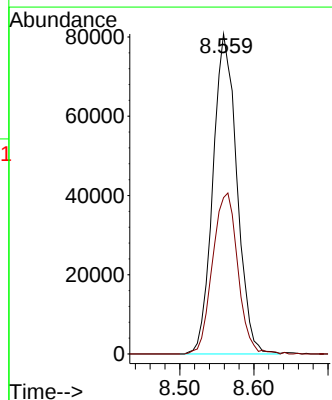
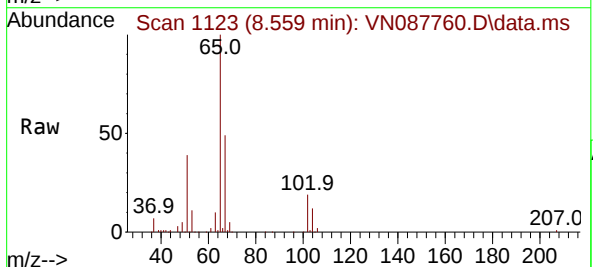
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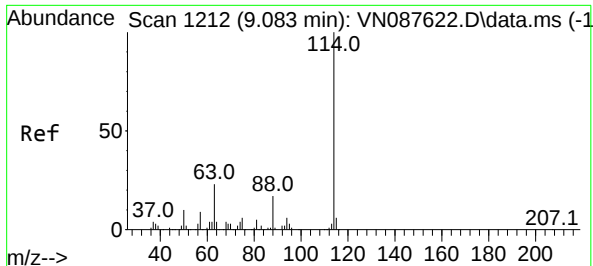
Tgt Ion: 56 Resp: 4782
Ion Ratio Lower Upper
56 100
69 141.9 23.7 35.5#
84 100.1 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 55.545 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

Tgt Ion: 65 Resp: 181221
Ion Ratio Lower Upper
65 100
67 53.1 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087760.D

Acq: 08 Sep 2025 14:42

Instrument :

MSVOA_N

ClientSampleId :

SOIL-PILE-2

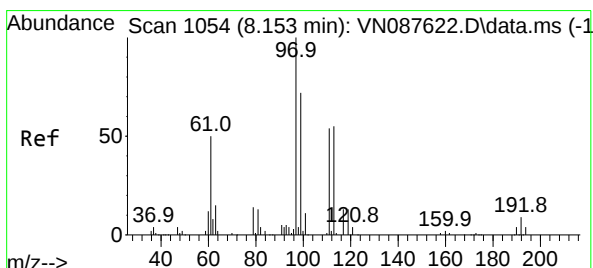
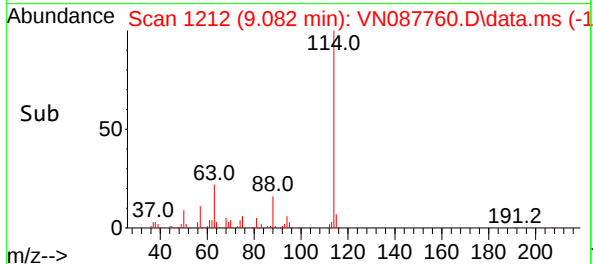
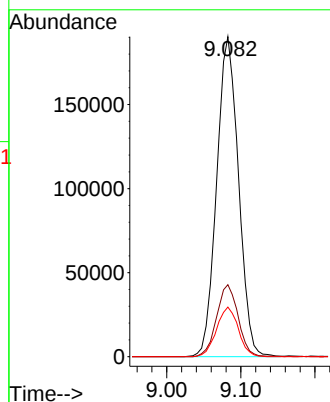
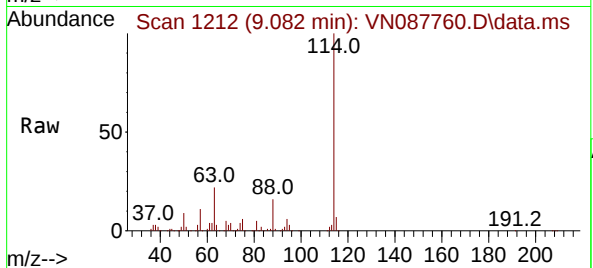
Tgt Ion:114 Resp: 389686

Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.2

88 15.5 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.749 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087760.D

Acq: 08 Sep 2025 14:42

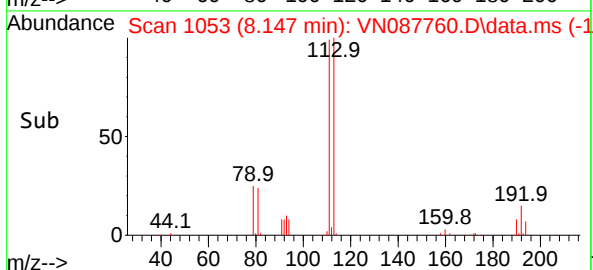
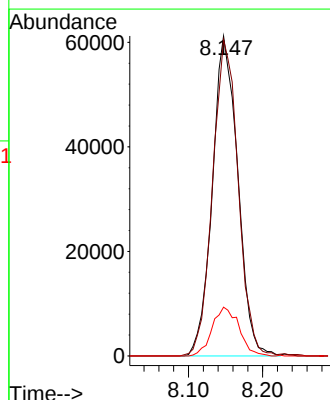
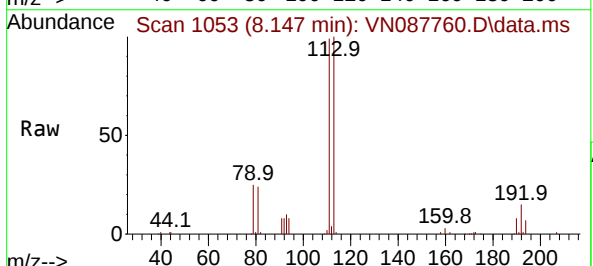
Tgt Ion:113 Resp: 145598

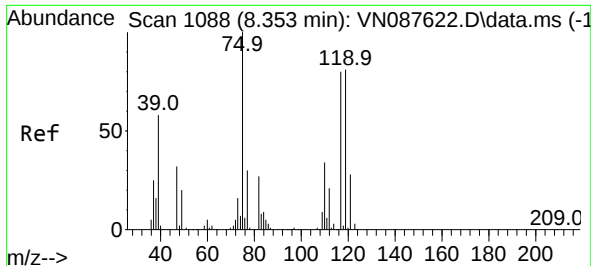
Ion Ratio Lower Upper

113 100

111 99.4 82.8 124.2

192 16.1 12.8 19.2

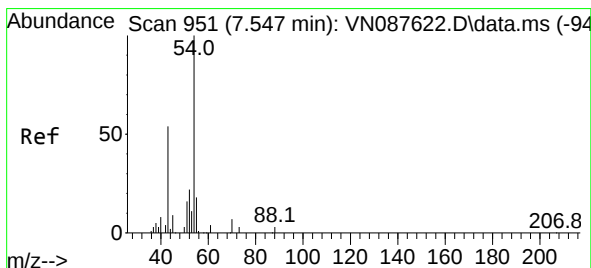
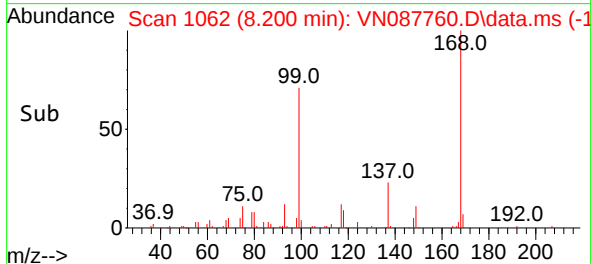
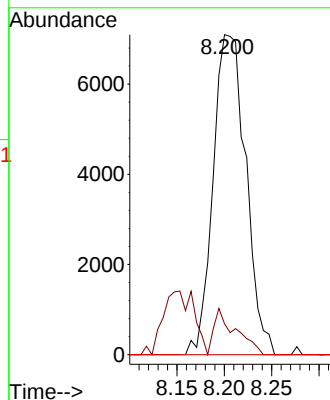
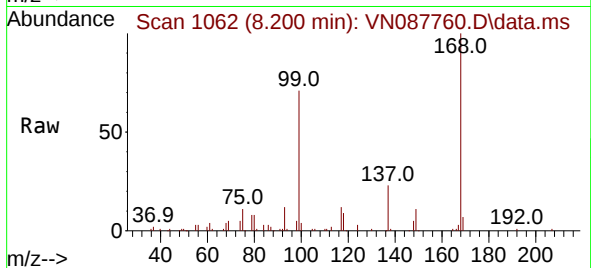




#36
1,1-Dichloropropene
Concen: 3.944 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.153 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

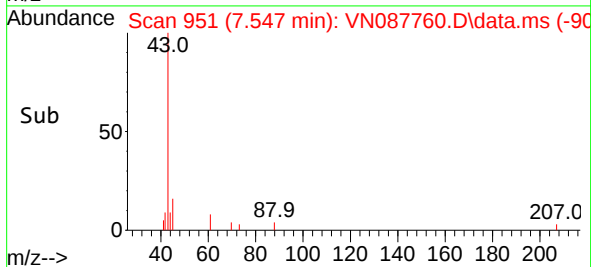
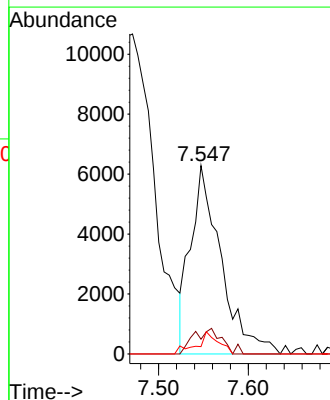
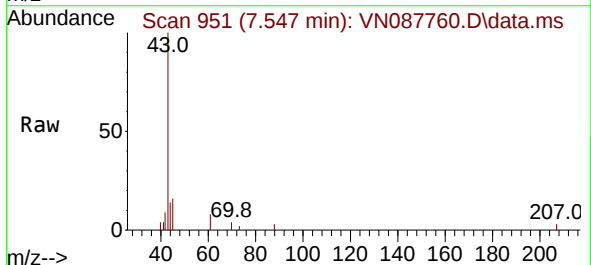
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-2

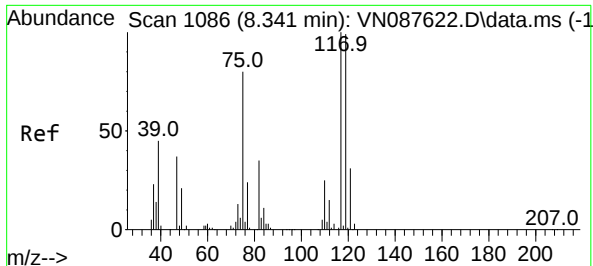
Tgt Ion: 75 Resp: 17024
Ion Ratio Lower Upper
75 100
110 9.6 15.9 47.6#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 2.516 ug/l
RT: 7.547 min Scan# 951
Delta R.T. -0.000 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

Tgt Ion: 43 Resp: 14840
Ion Ratio Lower Upper
43 100
61 12.7 9.3 13.9
70 8.2 7.0 10.6

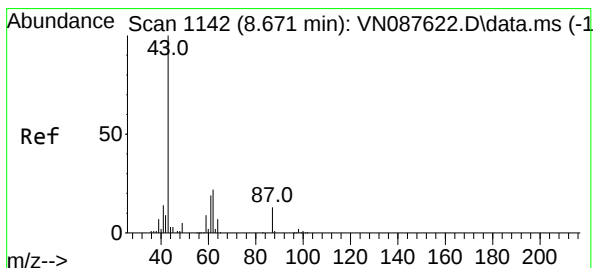
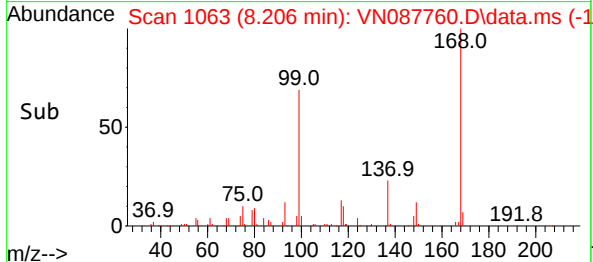
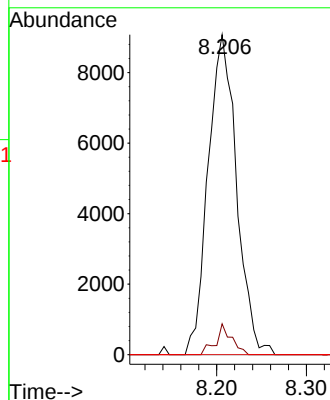
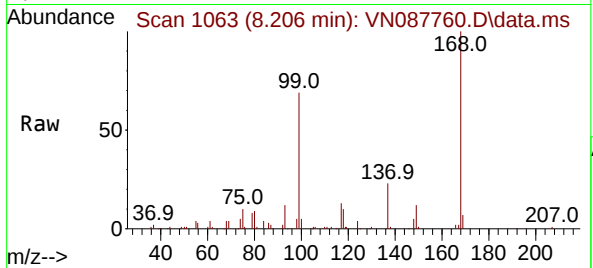




#38
Carbon Tetrachloride
Concen: 4.691 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

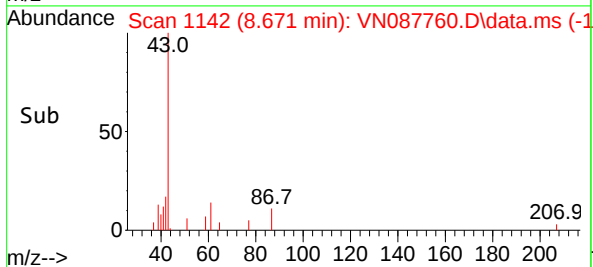
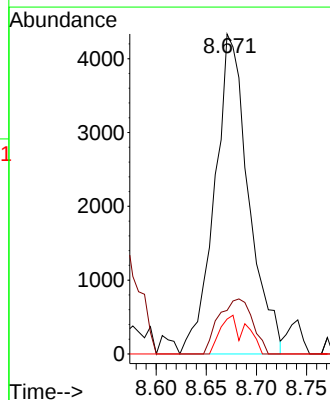
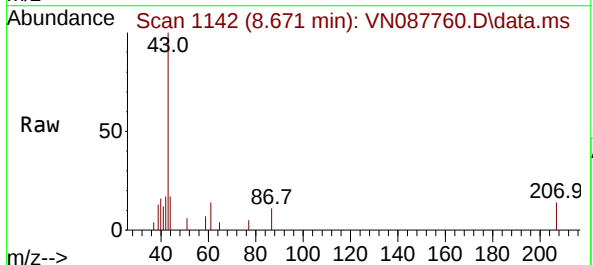
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-2

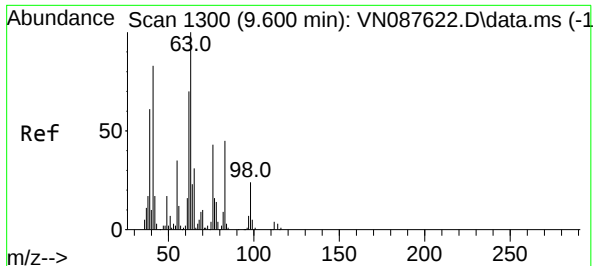
Tgt Ion:117 Resp: 19991
Ion Ratio Lower Upper
117 100
119 9.6 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 1.107 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

Tgt Ion: 43 Resp: 10190
Ion Ratio Lower Upper
43 100
61 17.1 18.8 28.2#
87 9.2 9.6 14.4#





#45

1,2-Dichloropropane

Concen: 0.208 ug/l

RT: 9.729 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN087760.D

Acq: 08 Sep 2025 14:42

Instrument :

MSVOA_N

ClientSampleId :

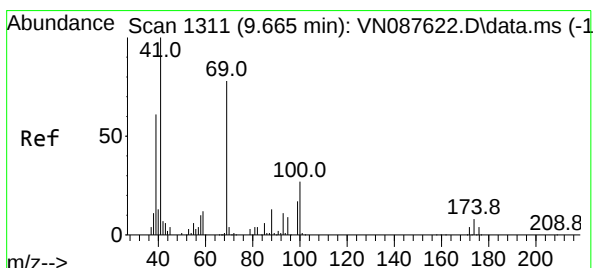
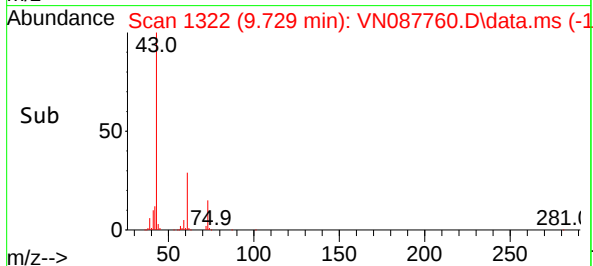
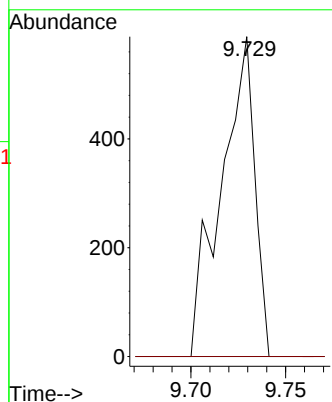
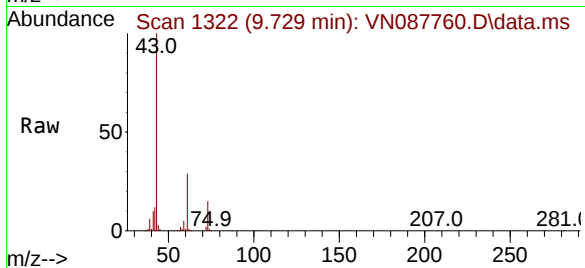
SOIL-PILE-2

Tgt Ion: 63 Resp: 727

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 0.373 ug/l

RT: 9.647 min Scan# 1308

Delta R.T. -0.018 min

Lab File: VN087760.D

Acq: 08 Sep 2025 14:42

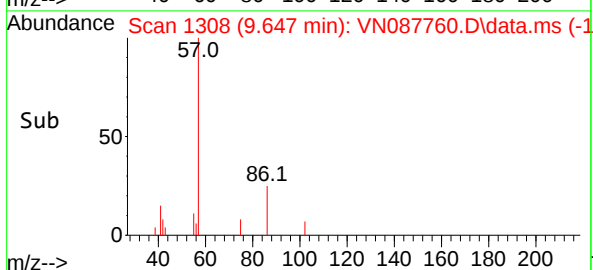
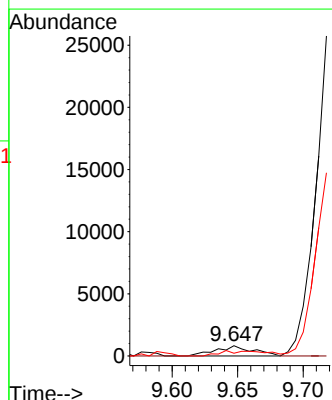
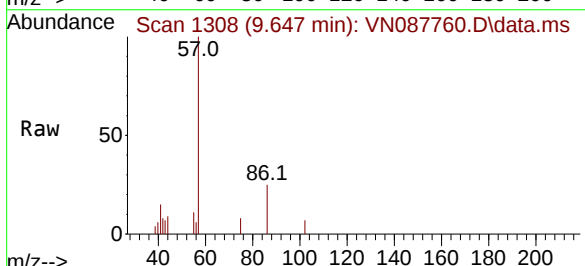
Tgt Ion: 41 Resp: 1624

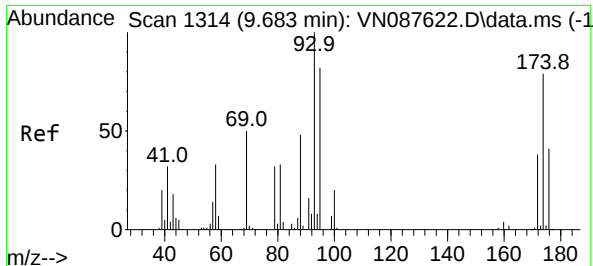
Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 0.0 52.9 79.3#





#49

1,4-Dioxane

Concen: 1.204 ug/l

RT: 9.712 min Scan# 1

Delta R.T. 0.029 min

Lab File: VN087760.D

Acq: 08 Sep 2025 14:42

Instrument :

MSVOA_N

ClientSampleId :

SOIL-PILE-2

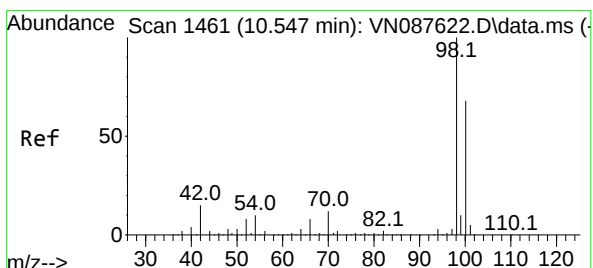
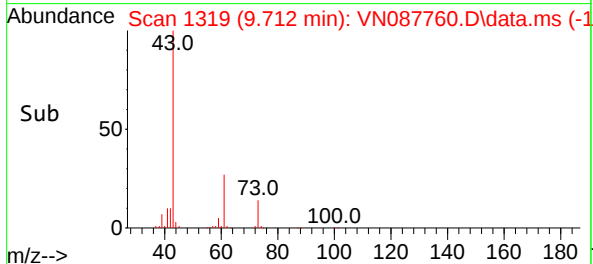
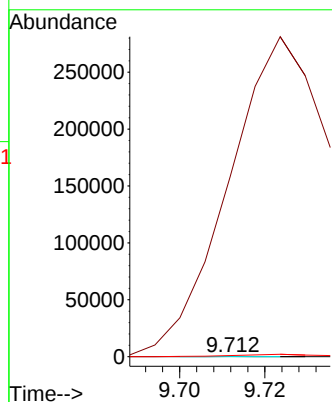
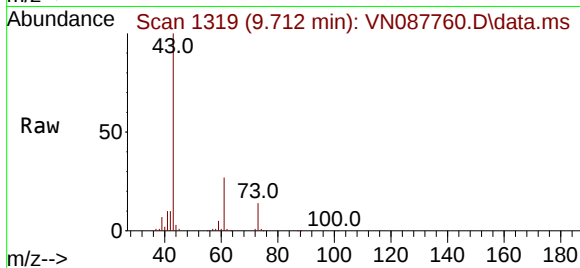
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 771664.7 0.0 0.0#

58 5066.2 57.9 86.9#



#50

Toluene-d8

Concen: 49.514 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087760.D

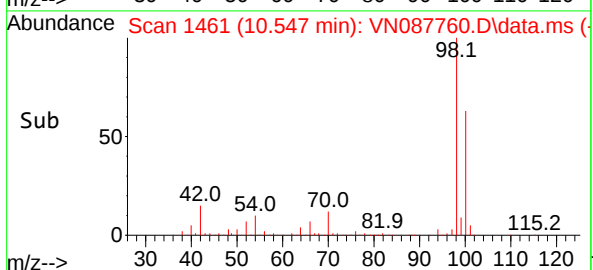
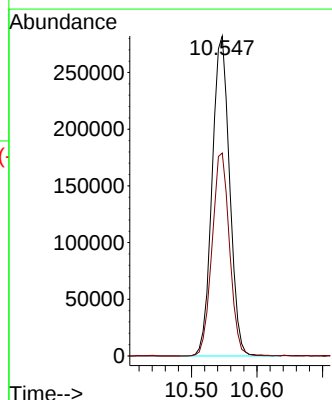
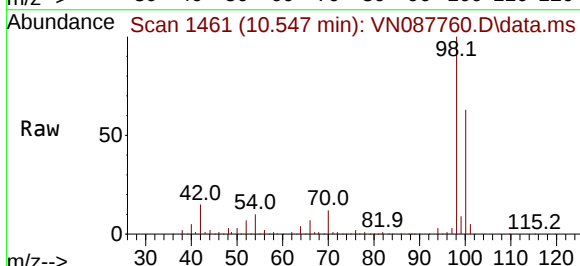
Acq: 08 Sep 2025 14:42

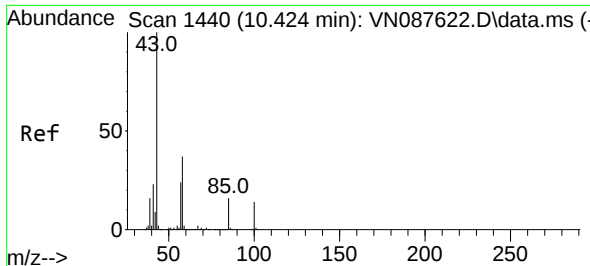
Tgt Ion: 98 Resp: 521403

Ion Ratio Lower Upper

98 100

100 63.5 52.8 79.2

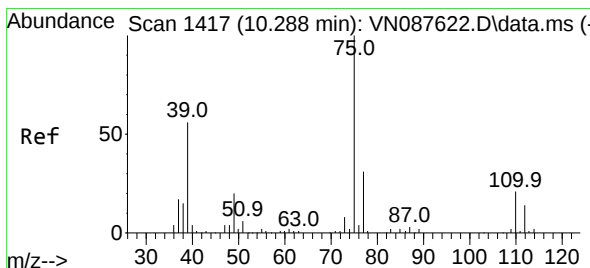
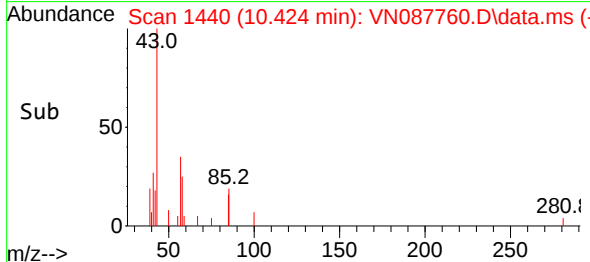
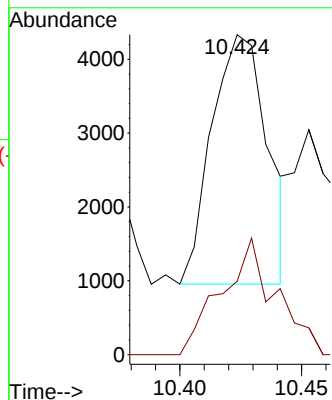
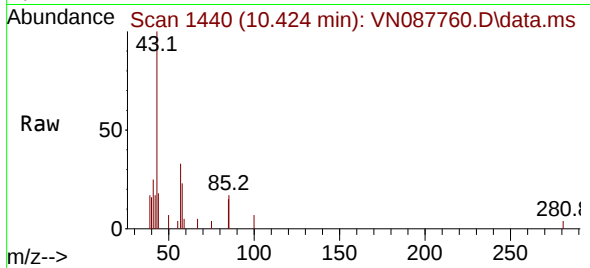




#51
4-Methyl-2-Pentanone
Concen: 0.968 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

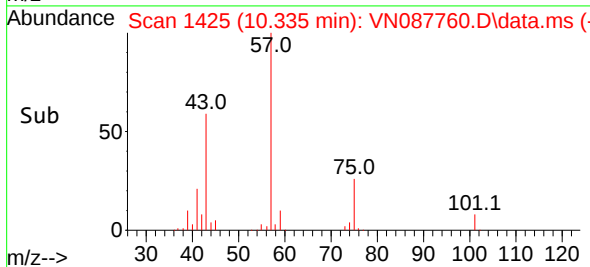
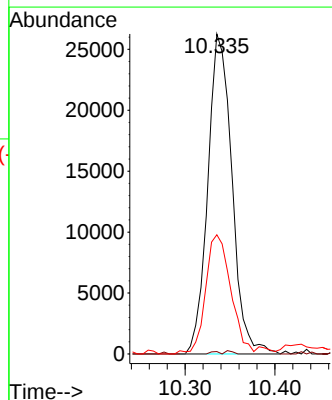
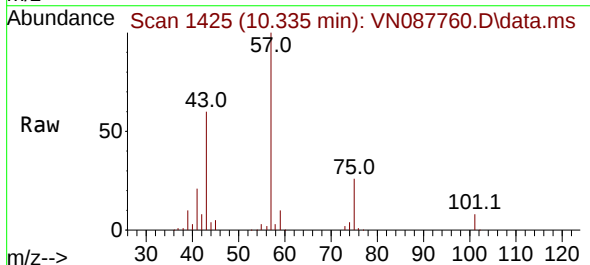
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-2

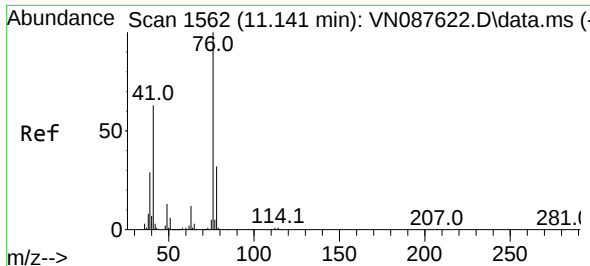
Tgt Ion: 43 Resp: 5380
Ion Ratio Lower Upper
43 100
58 45.5 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 8.972 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.047 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

Tgt Ion: 75 Resp: 49076
Ion Ratio Lower Upper
75 100
77 0.7 24.6 37.0#
39 36.2 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.263 ug/l

RT: 11.194 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN087760.D

Acq: 08 Sep 2025 14:42

Instrument :

MSVOA_N

ClientSampleId :

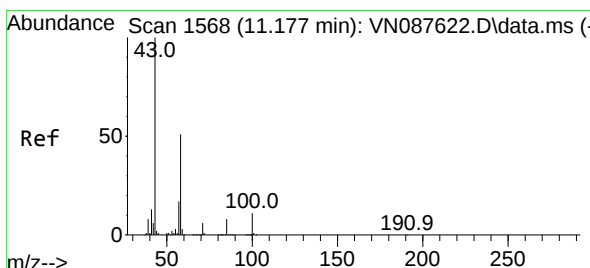
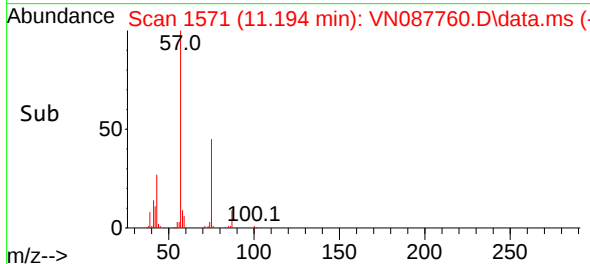
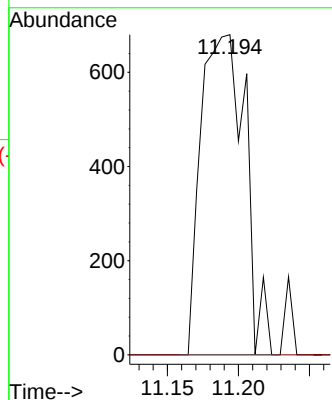
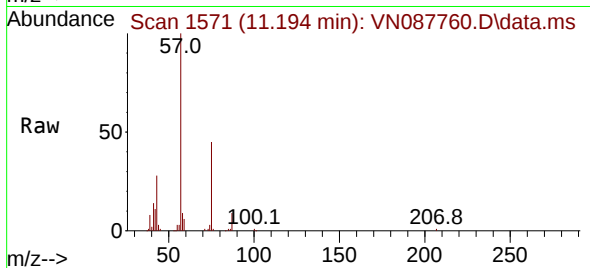
SOIL-PILE-2

Tgt Ion: 76 Resp: 1475

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 8.893 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN087760.D

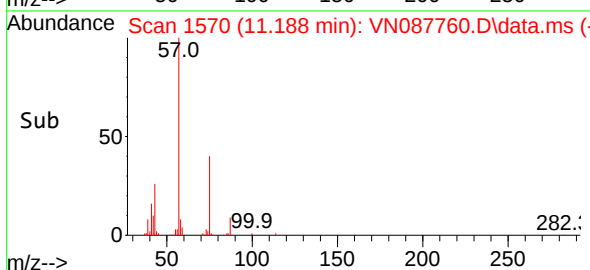
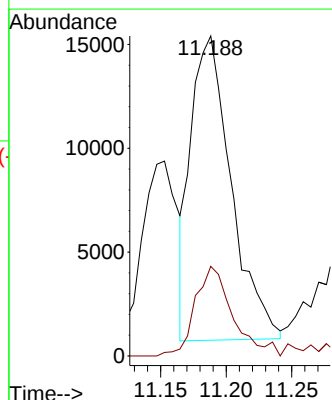
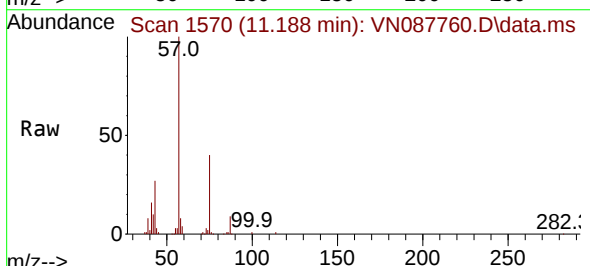
Acq: 08 Sep 2025 14:42

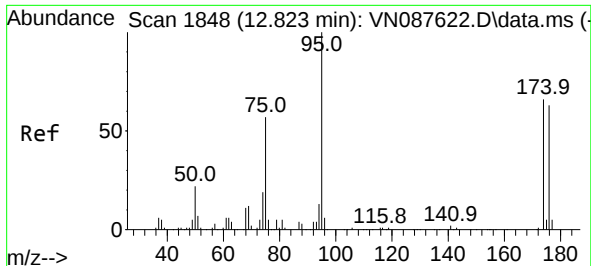
Tgt Ion: 43 Resp: 31227

Ion Ratio Lower Upper

43 100

58 27.5 25.9 77.8

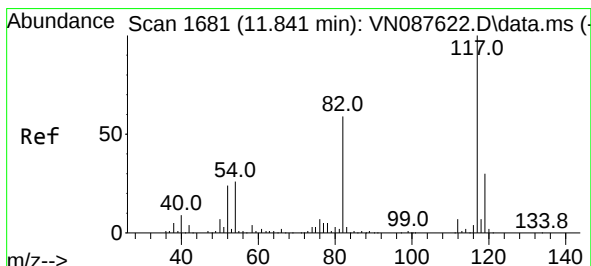
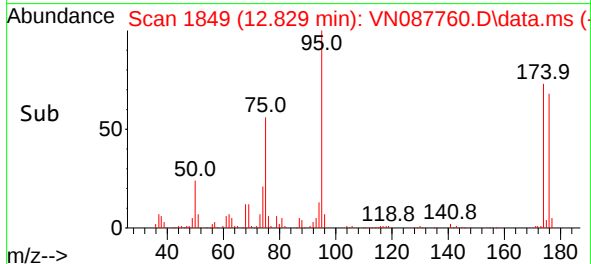
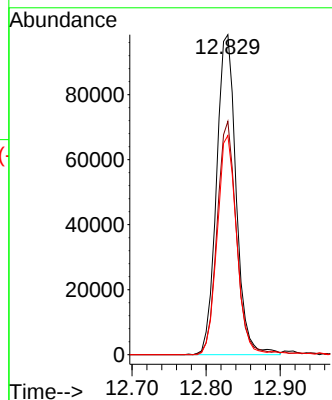
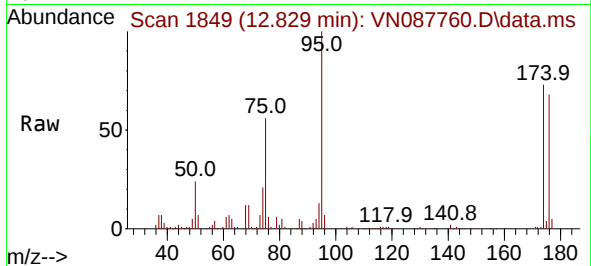




#62
4-Bromofluorobenzene
Concen: 48.340 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

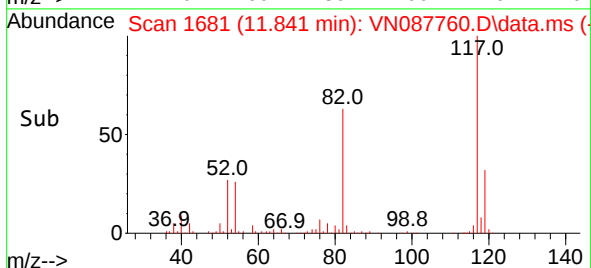
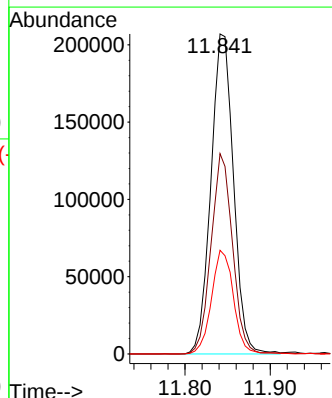
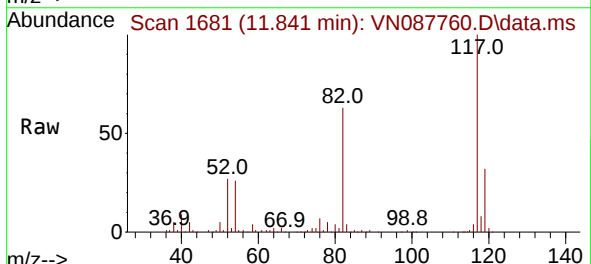
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-2

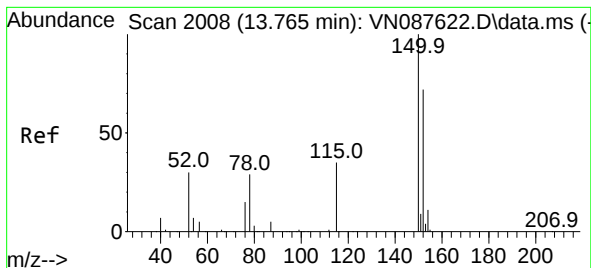
Tgt Ion: 95 Resp: 181031
Ion Ratio Lower Upper
95 100
174 72.1 0.0 138.4
176 67.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN087760.D
Acq: 08 Sep 2025 14:42

Tgt Ion: 117 Resp: 380890
Ion Ratio Lower Upper
117 100
82 62.6 47.4 71.2
119 32.4 24.3 36.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN087760.D

Acq: 08 Sep 2025 14:42

Instrument :

MSVOA_N

ClientSampleId :

SOIL-PILE-2

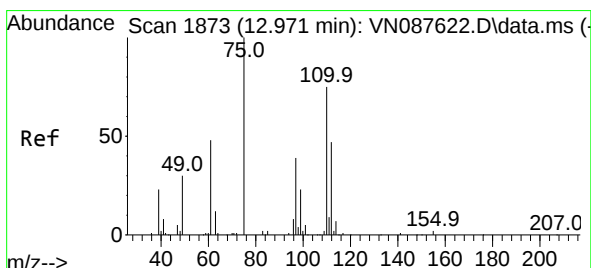
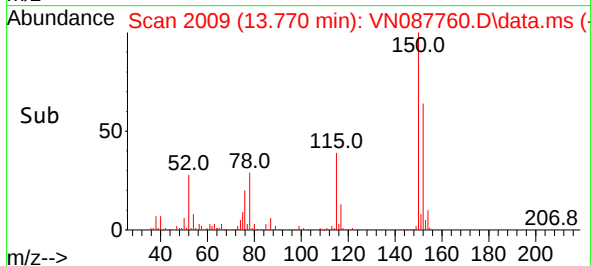
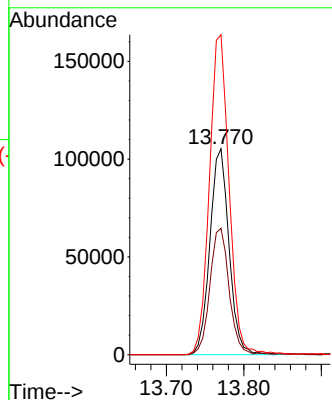
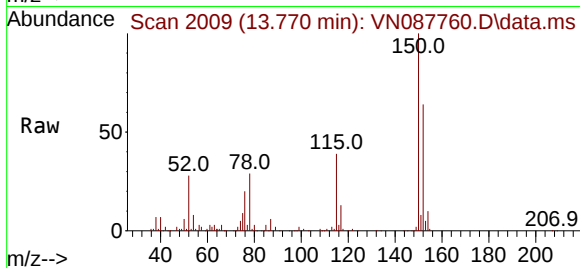
Tgt Ion:152 Resp: 180770

Ion Ratio Lower Upper

152 100

115 61.7 32.3 96.8

150 159.7 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 24.785 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. -0.147 min

Lab File: VN087760.D

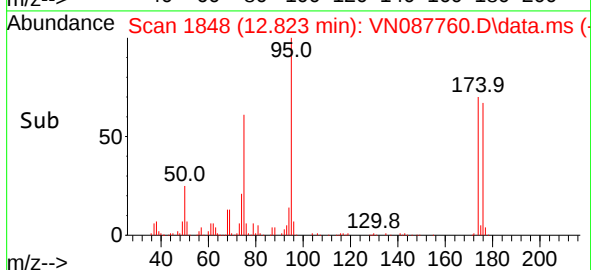
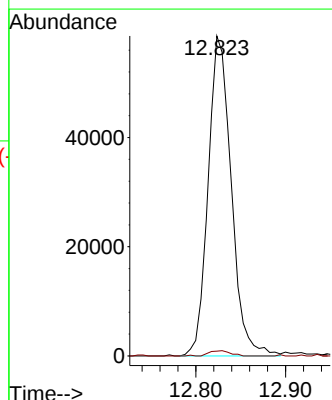
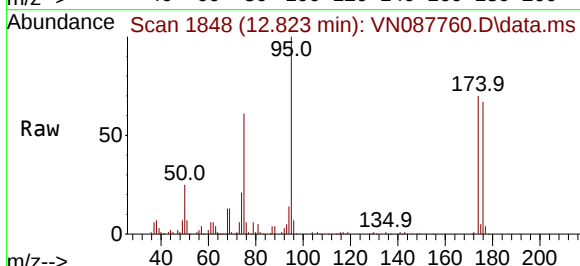
Acq: 08 Sep 2025 14:42

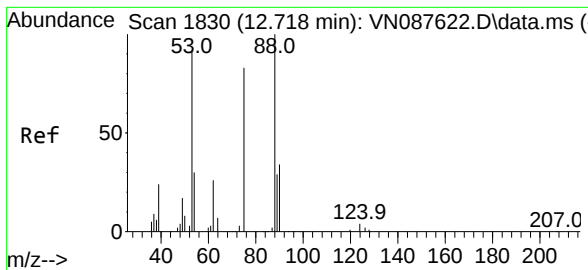
Tgt Ion: 75 Resp: 105067

Ion Ratio Lower Upper

75 100

77 1.5 89.1 267.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.615 ug/l
 RT: 12.823 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN087760.D
 Acq: 08 Sep 2025 14:42

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE-2

Tgt Ion: 75 Resp: 105067
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.2 35.6 53.4#

