

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062625\
 Data File : VN087195.D
 Acq On : 26 Jun 2025 15:10
 Operator : JC\MD
 Sample : Q2409-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COP-SOIL-PILE

Quant Time: Jun 27 01:27:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

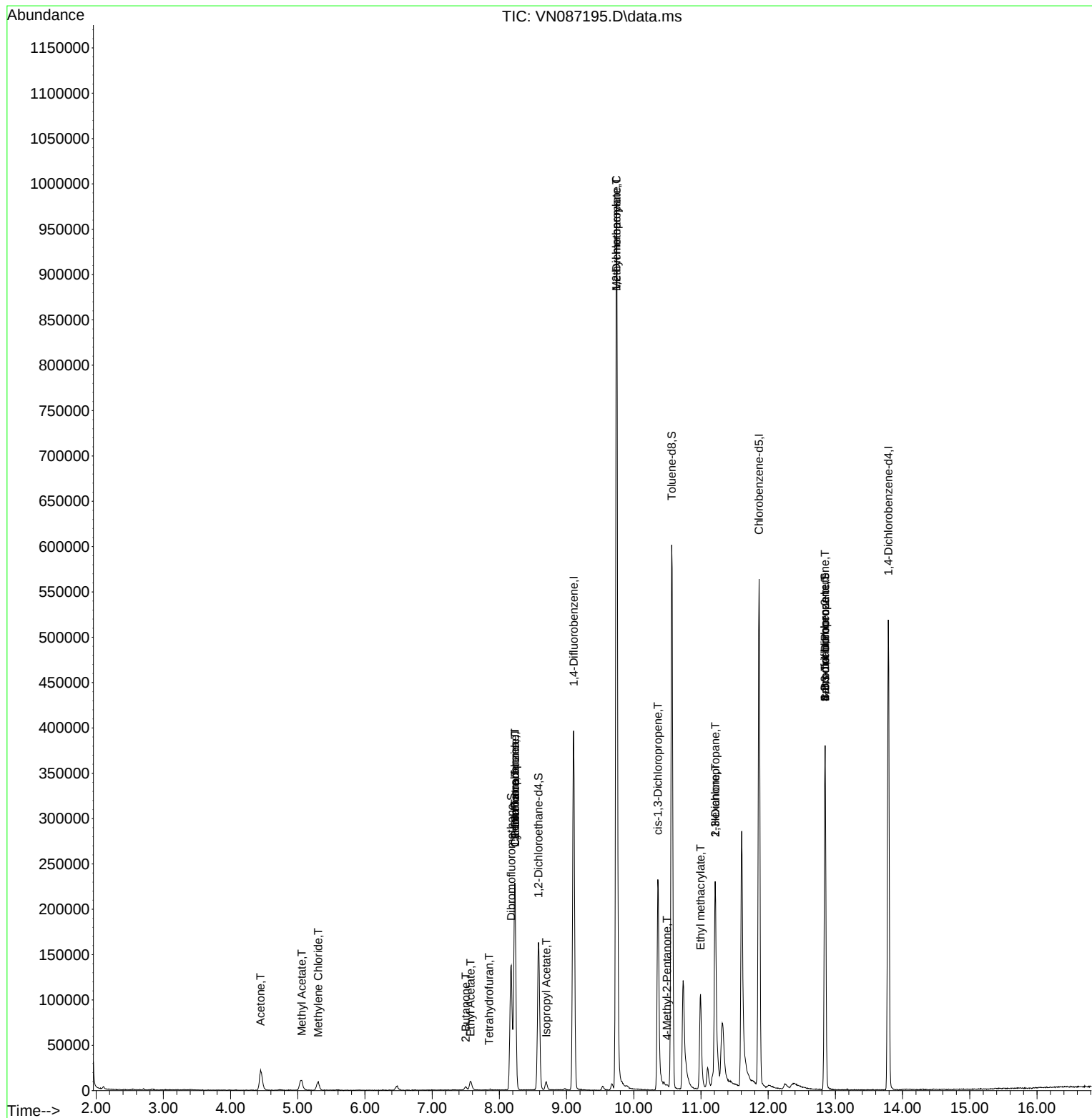
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	173086	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	351922	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	331140	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146598	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	135687	58.551	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	117.100%
35) Dibromofluoromethane	8.177	113	106571	51.099	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.200%
50) Toluene-d8	10.565	98	426607	51.671	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.340%
62) 4-Bromofluorobenzene	12.847	95	145391	47.398	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.800%
Target Compounds						Qvalue
16) Acetone	4.447	43	44489	36.201	ug/l	95
18) Methyl Acetate	5.059	43	25685	7.172	ug/l	98
20) Methylene Chloride	5.306	84	7738	3.363	ug/l	91
25) 2-Butanone	7.500	43	6065	3.036	ug/l #	85
29) Tetrahydrofuran	7.847	42	262	0.201	ug/l #	31
31) Cyclohexane	8.235	56	3520	0.937	ug/l #	1
36) 1,1-Dichloropropene	8.235	75	14501	4.666	ug/l #	48
37) Ethyl Acetate	7.571	43	16231	4.103	ug/l	98
38) Carbon Tetrachloride	8.235	117	18402	6.031	ug/l #	16
43) Isopropyl Acetate	8.700	43	10475	1.650	ug/l #	92
45) 1,2-Dichloropropane	9.741	63	1174	0.475	ug/l #	43
48) Methyl methacrylate	9.741	41	87453	29.924	ug/l #	37
51) 4-Methyl-2-Pentanone	10.494	43	3302	0.864	ug/l #	33
54) cis-1,3-Dichloropropene	10.359	75	51311	12.693	ug/l #	61
56) Ethyl methacrylate	10.994	69	843	0.221	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	3092	0.746	ug/l #	43
59) 2-Hexanone	11.212	43	38493	15.633	ug/l #	51
71) Bromoform	12.847	173	781	0.449	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	71525	20.526	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	71525	47.249	ug/l #	16

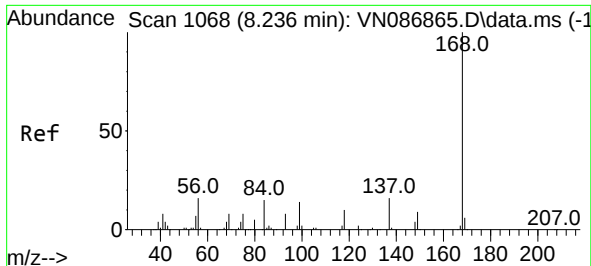
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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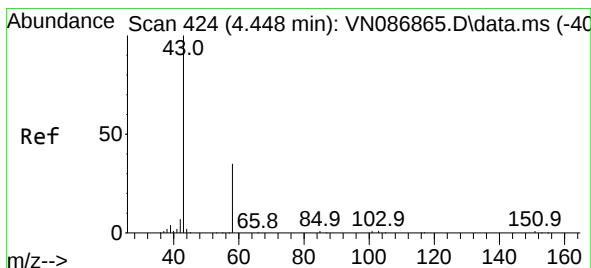
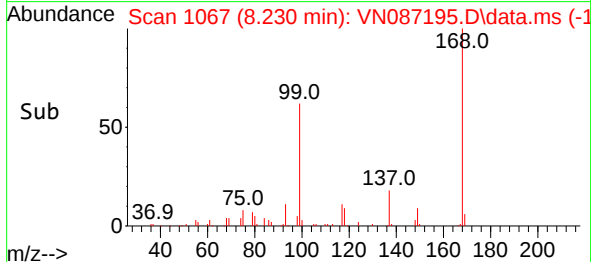
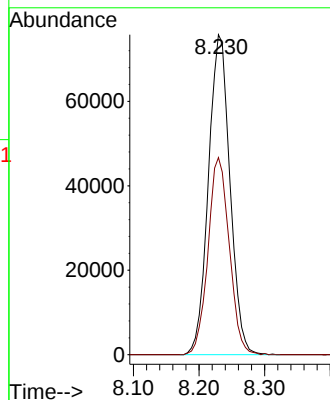
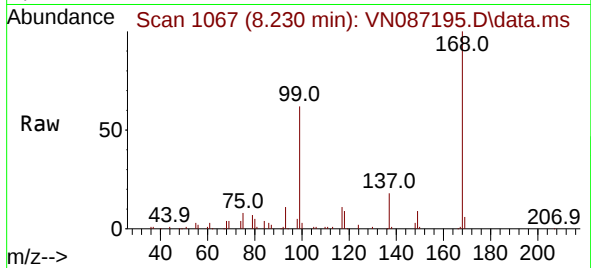




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

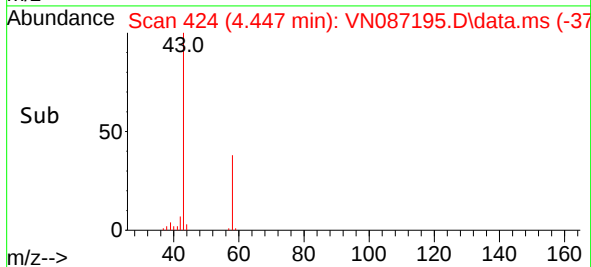
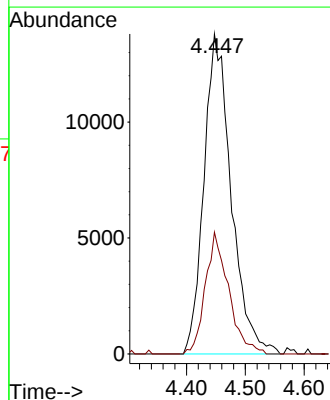
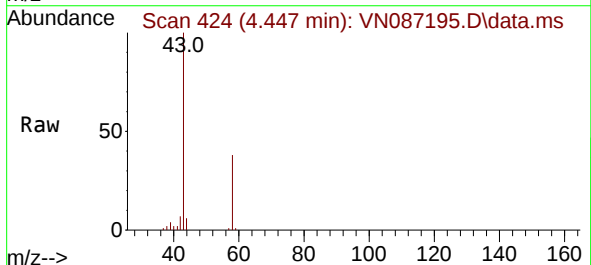
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MSVOA_N
ClientSampleId :
COP-SOIL-PILE

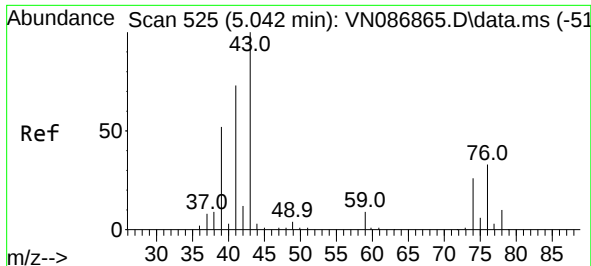
Tgt Ion:168 Resp: 173086
Ion Ratio Lower Upper
168 100
99 61.6 49.1 73.7



#16
Acetone
Concen: 36.201 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Tgt Ion: 43 Resp: 44489
Ion Ratio Lower Upper
43 100
58 38.1 28.0 42.0

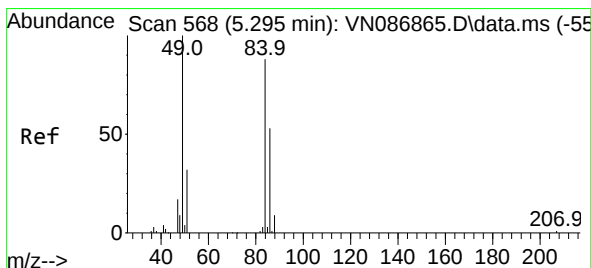
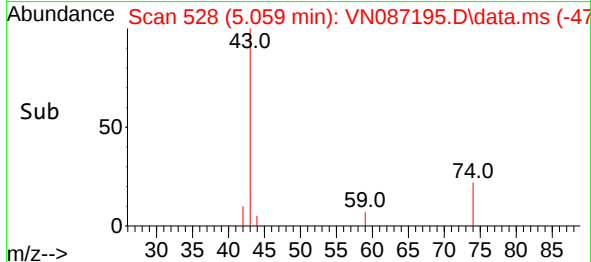
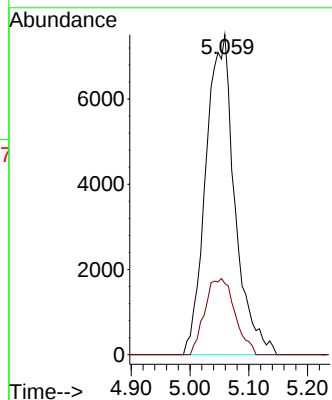
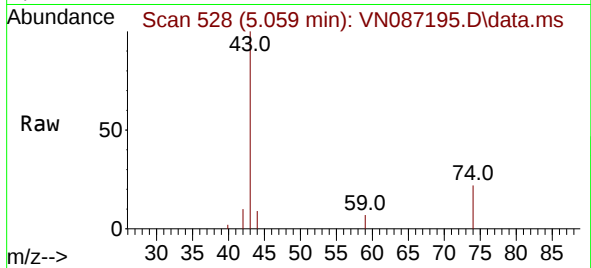




#18
Methyl Acetate
Concen: 7.172 ug/l
RT: 5.059 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

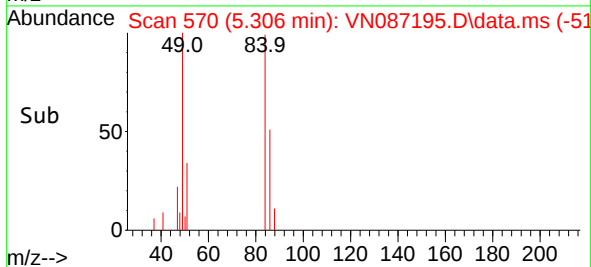
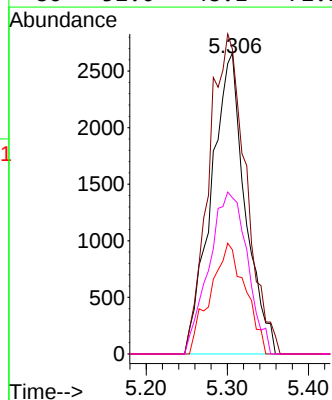
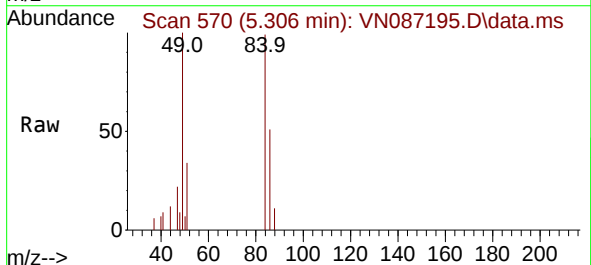
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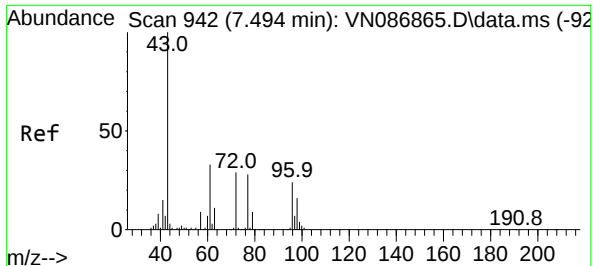
Tgt Ion: 43 Resp: 25685
Ion Ratio Lower Upper
43 100
74 24.6 20.7 31.1



#20
Methylene Chloride
Concen: 3.363 ug/l
RT: 5.306 min Scan# 570
Delta R.T. 0.012 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Tgt Ion: 84 Resp: 7738
Ion Ratio Lower Upper
84 100
49 101.4 90.5 135.7
51 34.6 28.5 42.7
86 52.0 48.1 72.1

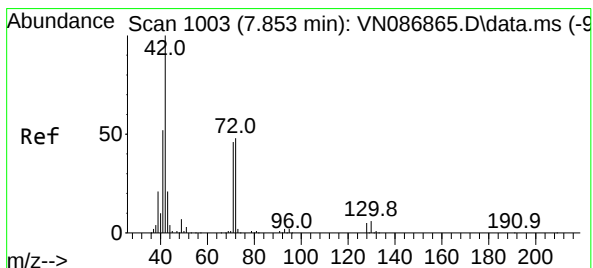
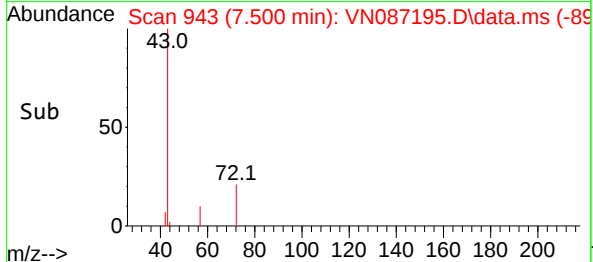
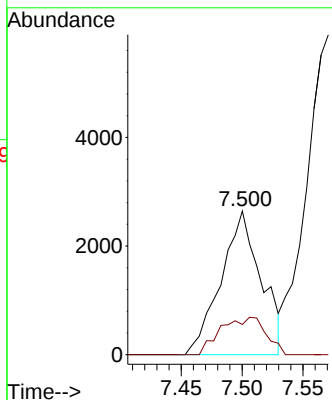
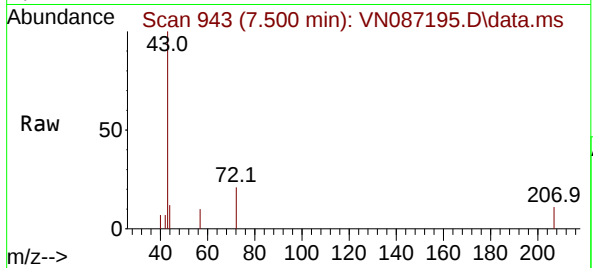




#25
2-Butanone
Concen: 3.036 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

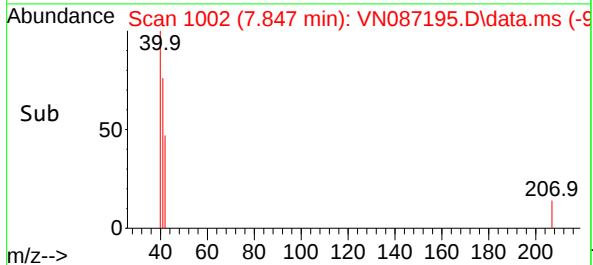
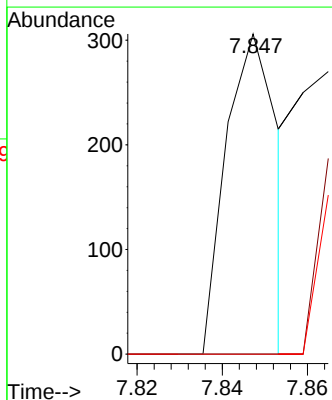
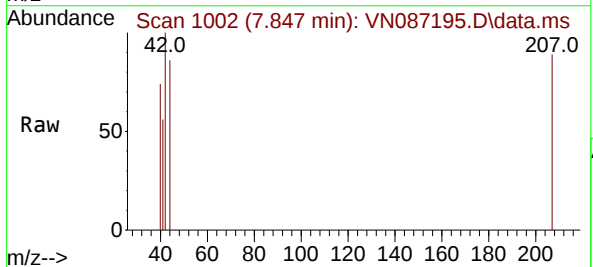
Instrument :
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COP-SOIL-PILE

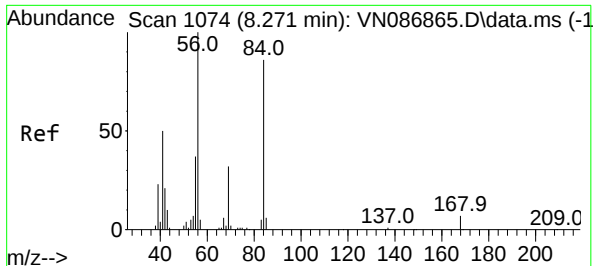
Tgt Ion: 43 Resp: 6065
Ion Ratio Lower Upper
43 100
72 21.0 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.201 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Tgt Ion: 42 Resp: 262
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 0.0 35.6 53.4#

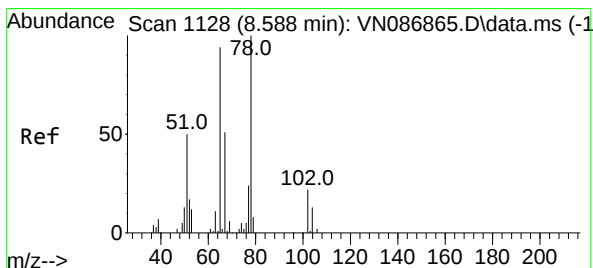
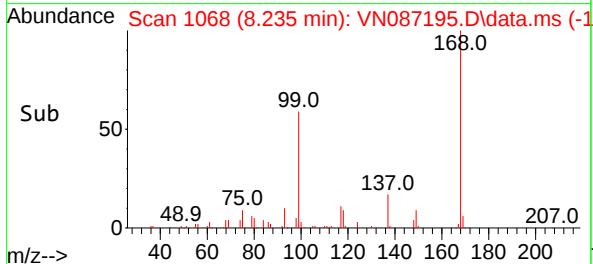
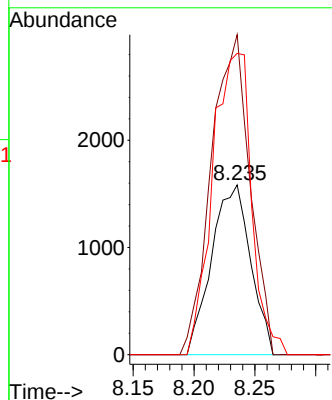
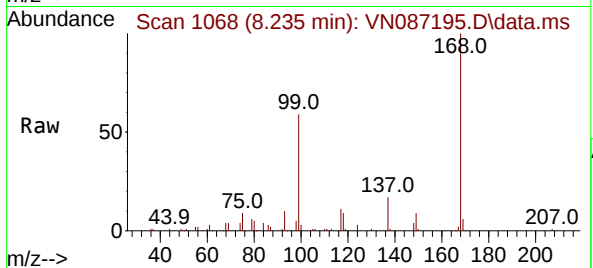




#31
Cyclohexane
Concen: 0.937 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

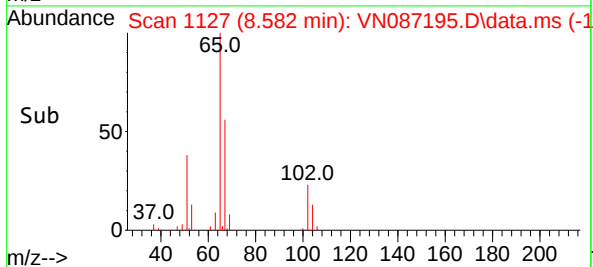
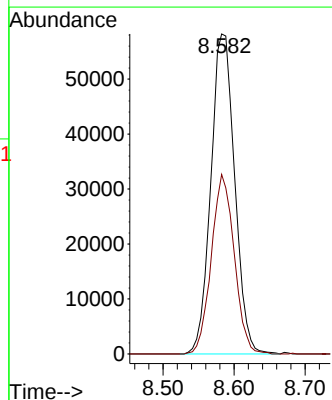
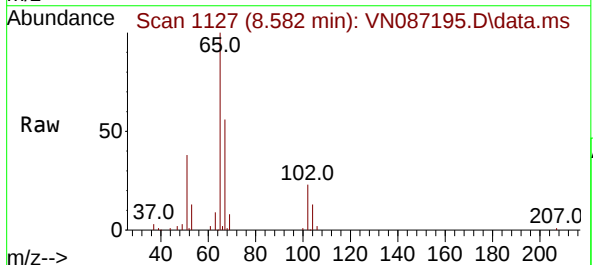
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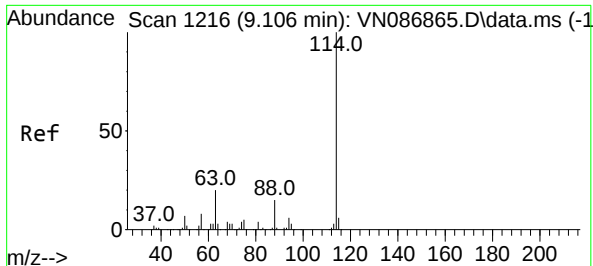
Tgt Ion: 56 Resp: 3520
Ion Ratio Lower Upper
56 100
69 188.6 25.4 38.0#
84 177.5 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 58.551 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Tgt Ion: 65 Resp: 135687
Ion Ratio Lower Upper
65 100
67 53.9 0.0 105.6

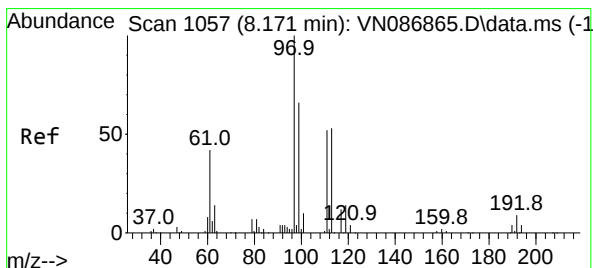
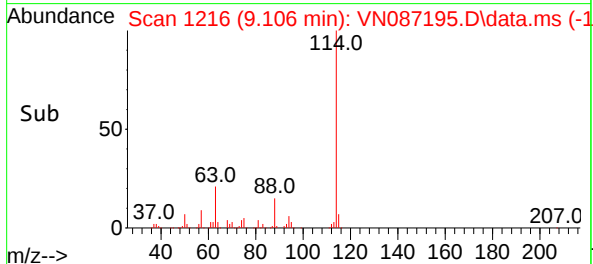
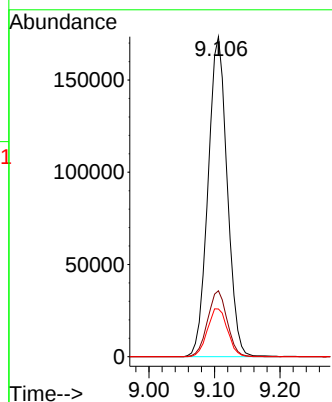
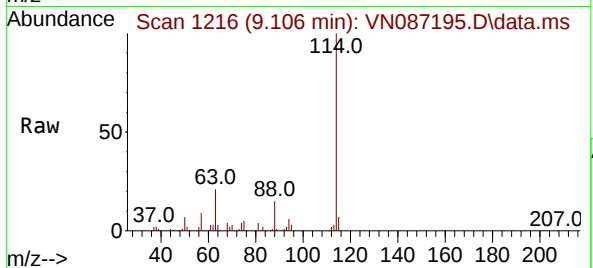




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

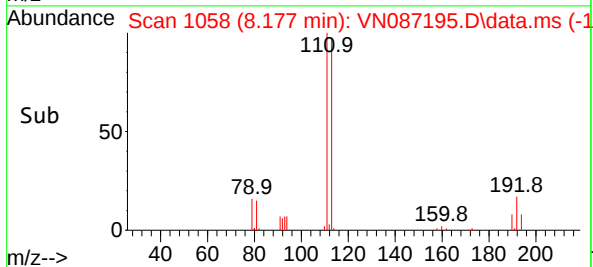
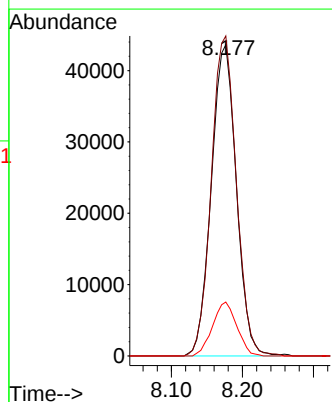
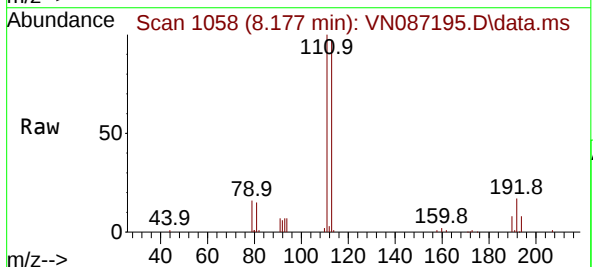
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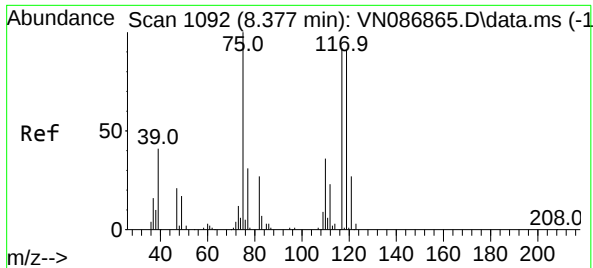
Tgt Ion:114 Resp: 351922
Ion Ratio Lower Upper
114 100
63 20.6 0.0 39.6
88 14.9 0.0 30.2



#35
Dibromofluoromethane
Concen: 51.099 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Tgt Ion:113 Resp: 106571
Ion Ratio Lower Upper
113 100
111 102.7 84.2 126.2
192 16.8 14.2 21.4

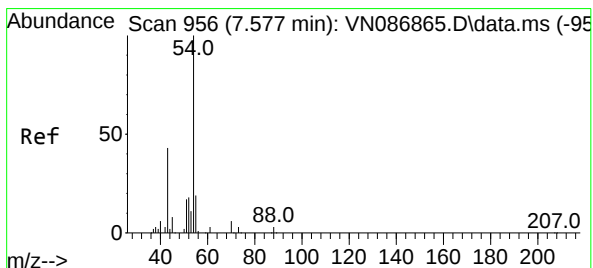
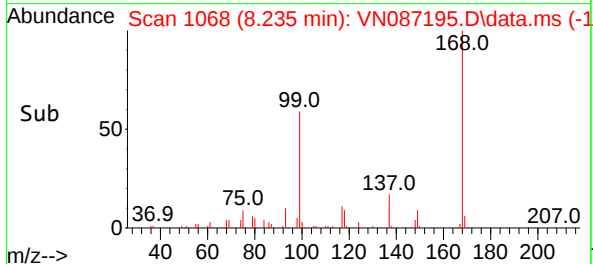
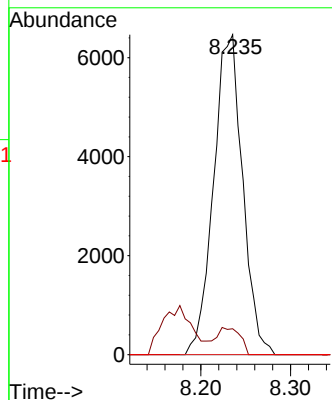
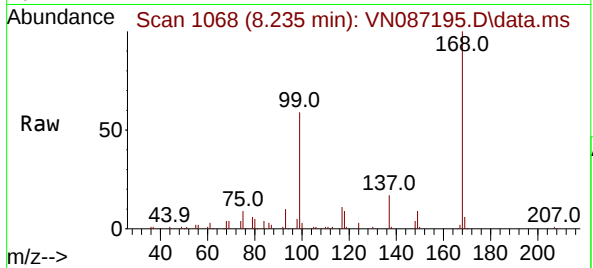




#36
1,1-Dichloropropene
Concen: 4.666 ug/l
RT: 8.235 min Scan# 1092
Delta R.T. -0.141 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

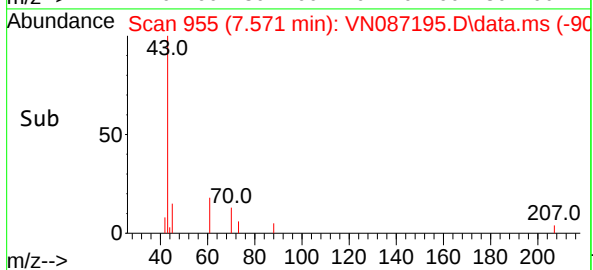
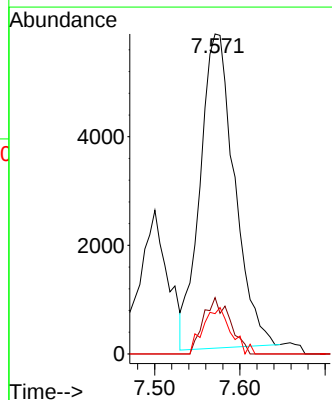
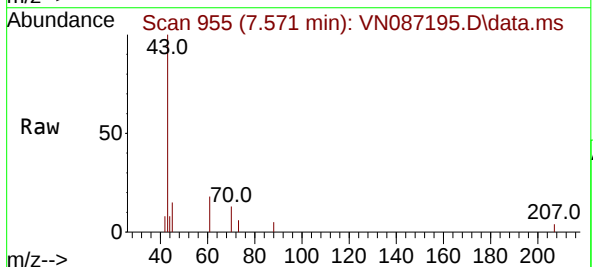
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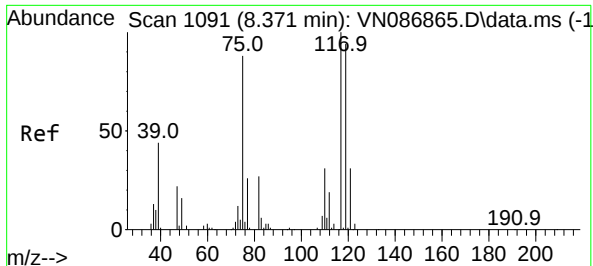
Tgt Ion: 75 Resp: 14501
Ion Ratio Lower Upper
75 100
110 7.2 17.6 52.9#
77 0.0 25.3 37.9#



#37
Ethyl Acetate
Concen: 4.103 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.006 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Tgt Ion: 43 Resp: 16231
Ion Ratio Lower Upper
43 100
61 13.9 12.1 18.1
70 11.8 9.8 14.6

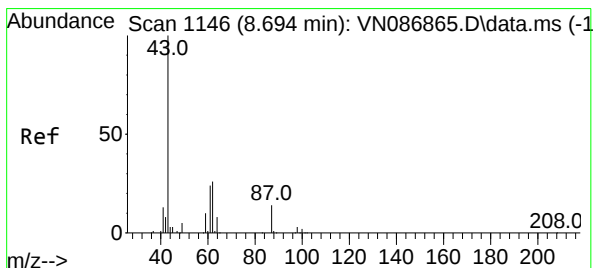
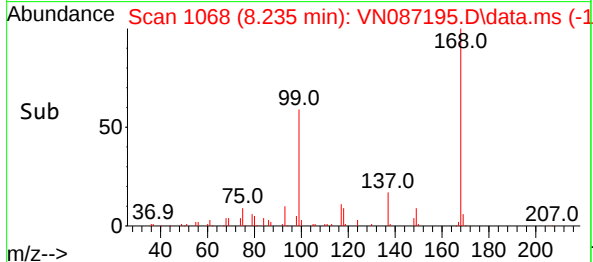
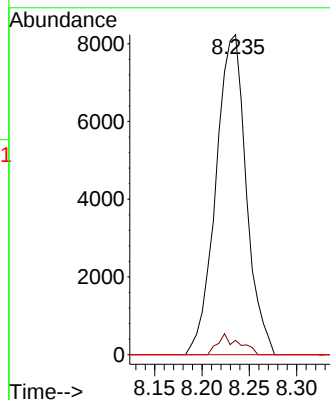
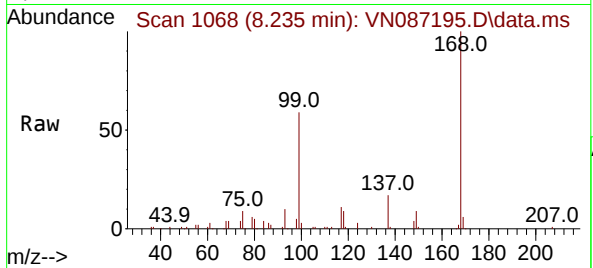




#38
Carbon Tetrachloride
Concen: 6.031 ug/l
RT: 8.235 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

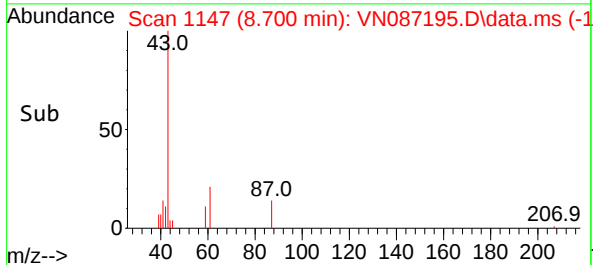
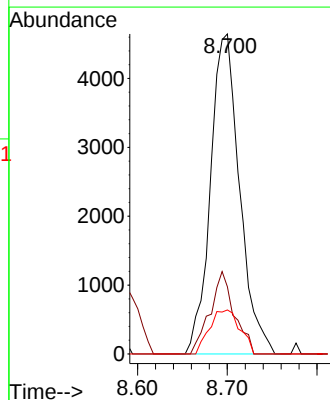
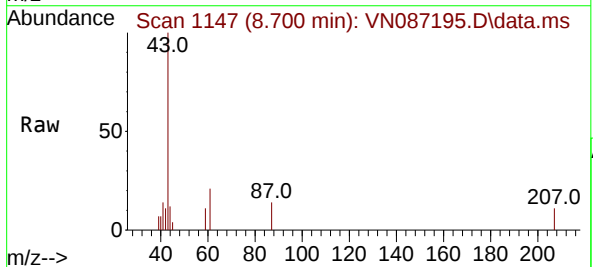
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COP-SOIL-PILE

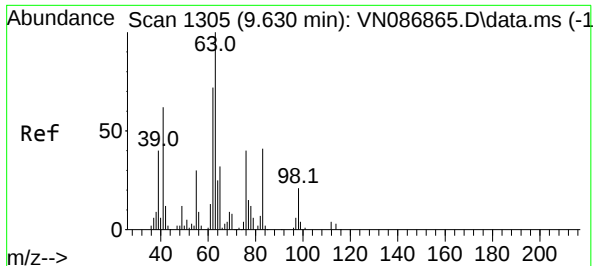
Tgt Ion:117 Resp: 18402
Ion Ratio Lower Upper
117 100
119 4.5 75.0 112.6#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.650 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Tgt Ion: 43 Resp: 10475
Ion Ratio Lower Upper
43 100
61 21.5 22.1 33.1#
87 14.3 11.8 17.6





#45

1,2-Dichloropropane

Concen: 0.475 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.112 min

Lab File: VN087195.D

Acq: 26 Jun 2025 15:10

Instrument :

MSVOA_N

ClientSampleId :

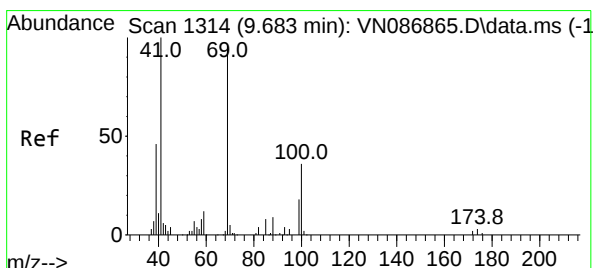
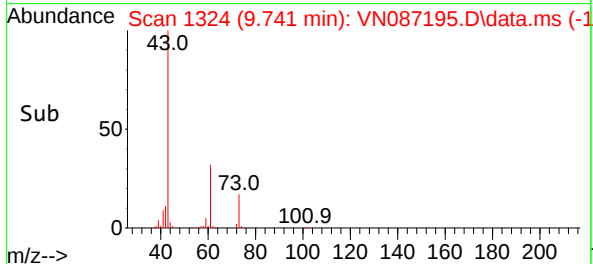
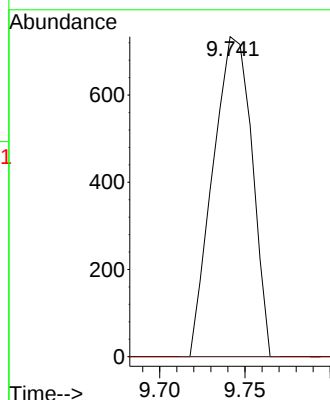
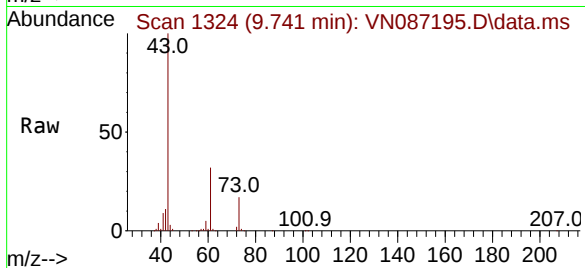
COP-SOIL-PILE

Tgt Ion: 63 Resp: 1174

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 29.924 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN087195.D

Acq: 26 Jun 2025 15:10

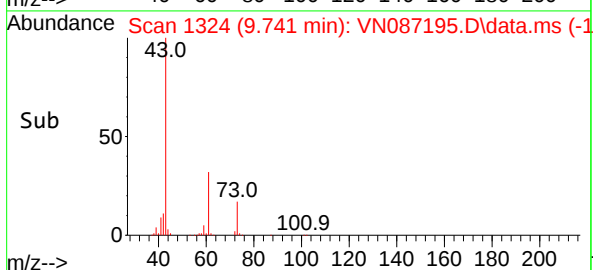
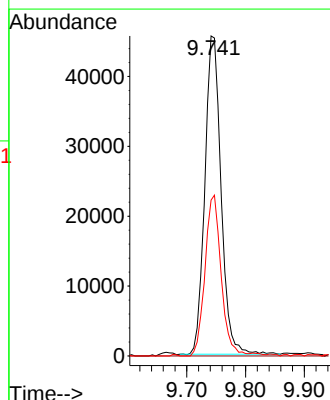
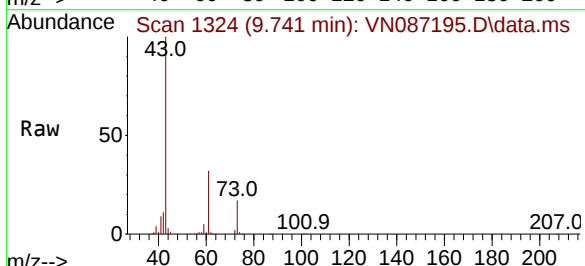
Tgt Ion: 41 Resp: 87453

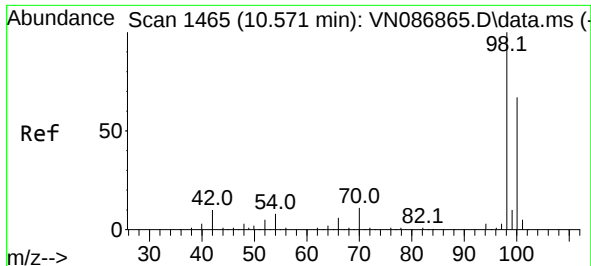
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 50.2 40.2 60.4

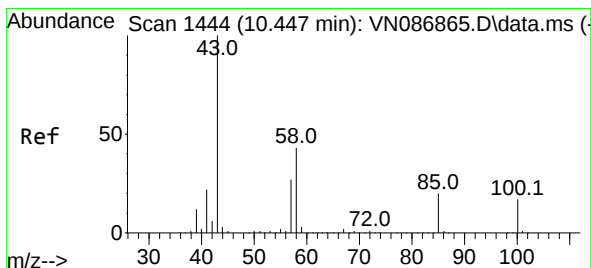
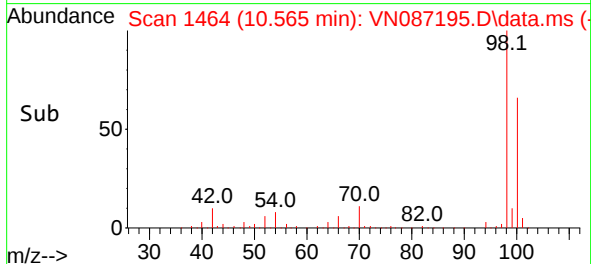
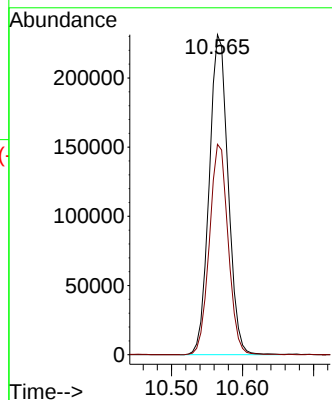
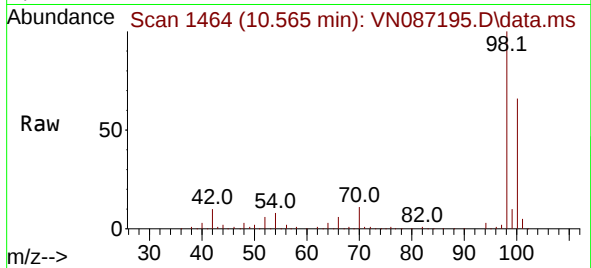




#50
Toluene-d8
Concen: 51.671 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

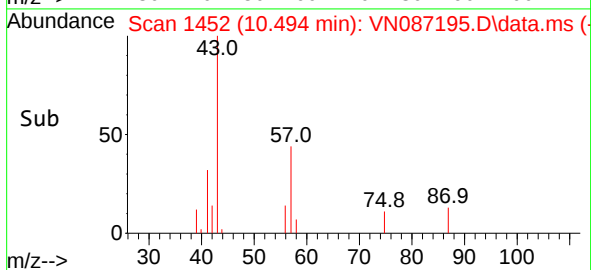
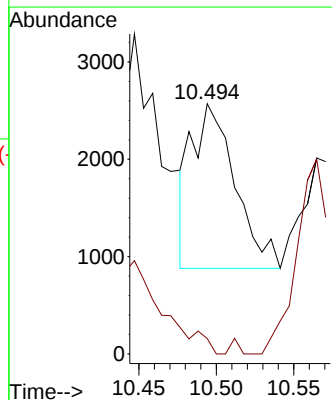
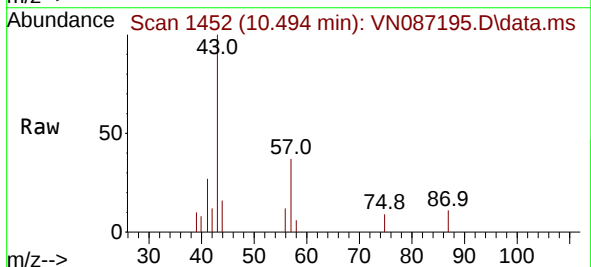
Instrument :
MSVOA_N
ClientSampleId :
COP-SOIL-PILE

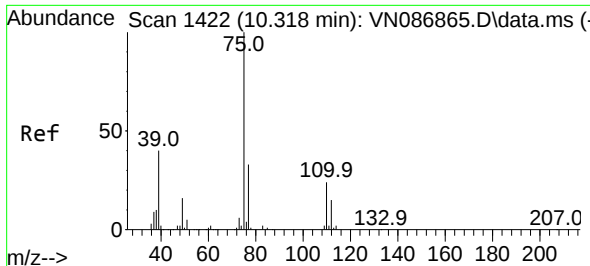
Tgt Ion: 98 Resp: 426607
Ion Ratio Lower Upper
98 100
100 65.2 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 0.864 ug/l
RT: 10.494 min Scan# 1452
Delta R.T. 0.047 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Tgt Ion: 43 Resp: 3302
Ion Ratio Lower Upper
43 100
58 0.0 34.2 51.4#

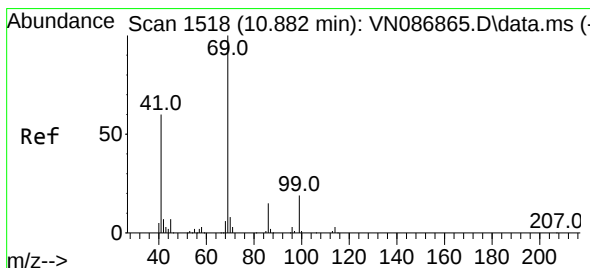
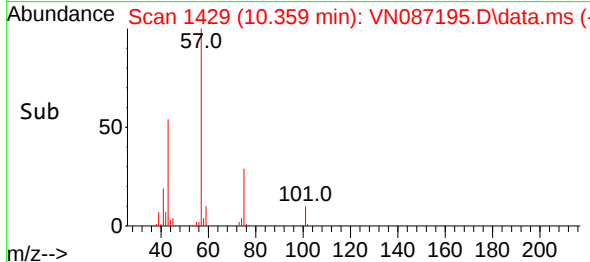
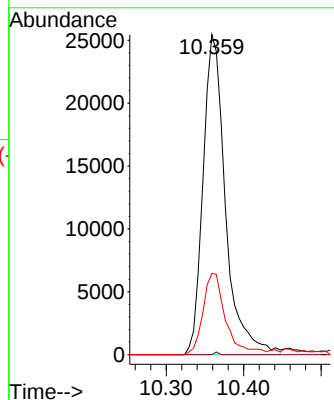
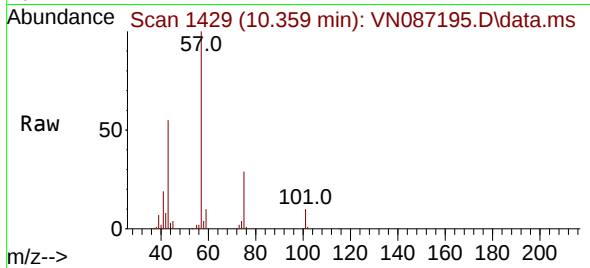




#54
 cis-1,3-Dichloropropene
 Concen: 12.693 ug/l
 RT: 10.359 min Scan# 1422
 Delta R.T. 0.041 min
 Lab File: VN087195.D
 Acq: 26 Jun 2025 15:10

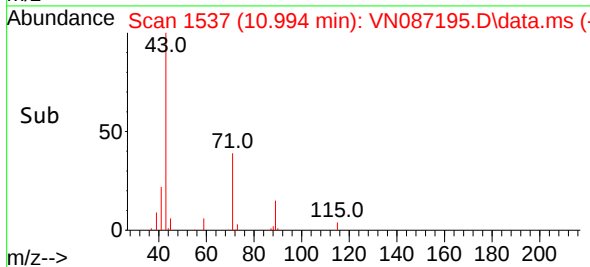
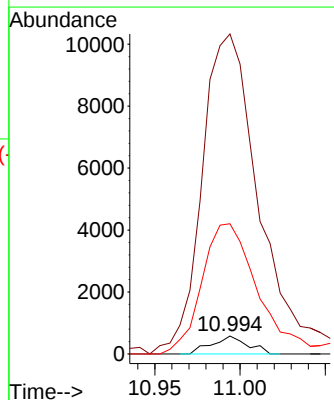
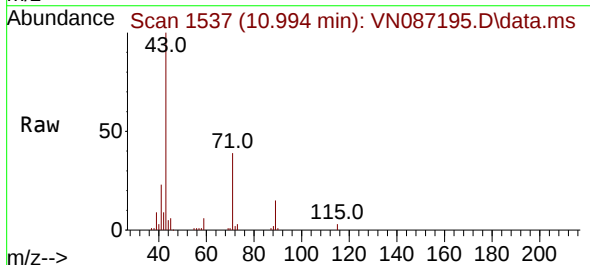
Instrument :
 MSVOA_N
 ClientSampleId :
 COP-SOIL-PILE

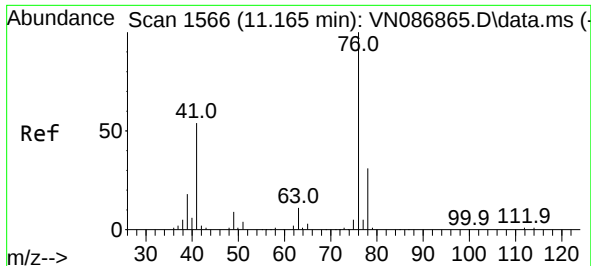
Tgt Ion: 75 Resp: 51311
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.4#
 39 25.4 32.3 48.5#



#56
 Ethyl methacrylate
 Concen: 0.221 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.112 min
 Lab File: VN087195.D
 Acq: 26 Jun 2025 15:10

Tgt Ion: 69 Resp: 843
 Ion Ratio Lower Upper
 69 100
 41 2867.6 47.2 70.8#
 39 1139.0 23.0 34.6#





#57

1,3-Dichloropropane

Concen: 0.746 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.047 min

Lab File: VN087195.D

Acq: 26 Jun 2025 15:10

Instrument :

MSVOA_N

ClientSampleId :

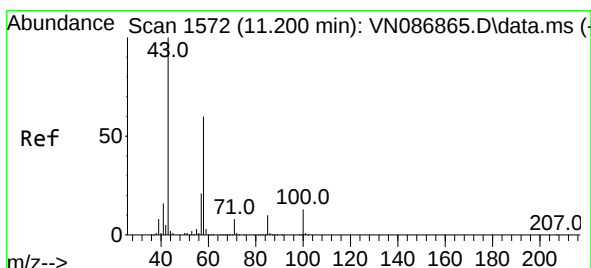
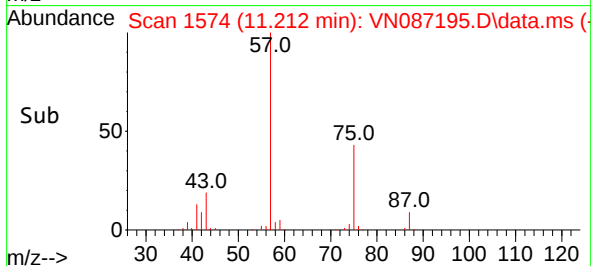
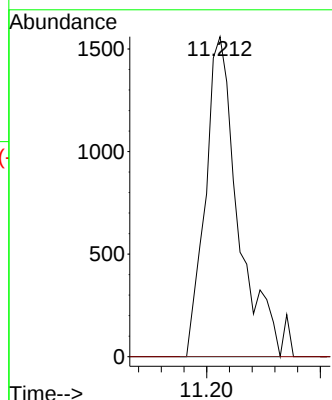
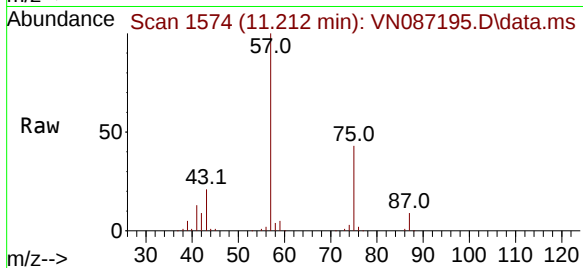
COP-SOIL-PILE

Tgt Ion: 76 Resp: 3092

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 15.633 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087195.D

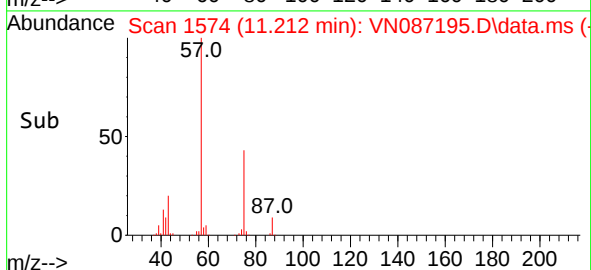
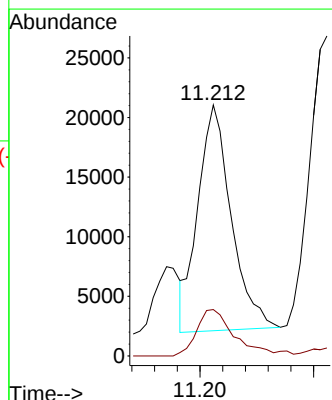
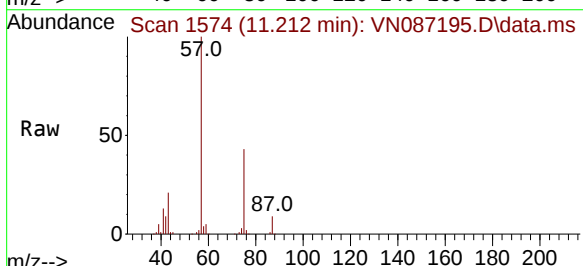
Acq: 26 Jun 2025 15:10

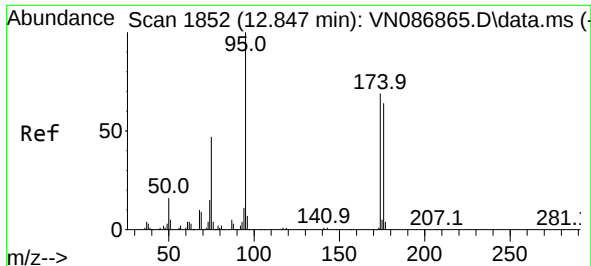
Tgt Ion: 43 Resp: 38493

Ion Ratio Lower Upper

43 100

58 23.8 30.4 91.3#

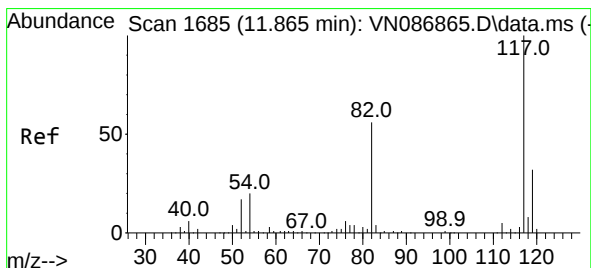
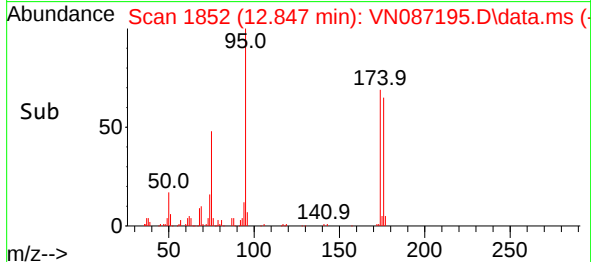
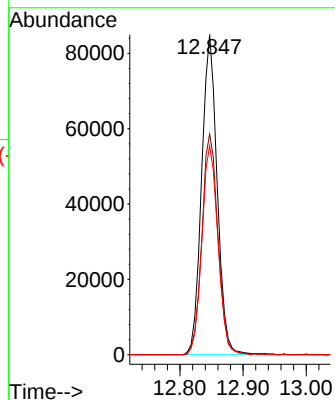
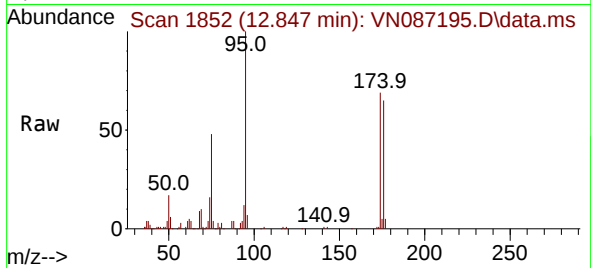




#62
4-Bromofluorobenzene
Concen: 47.398 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

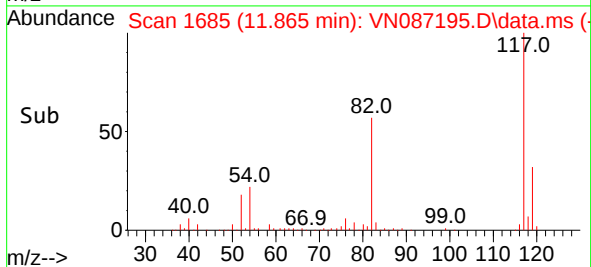
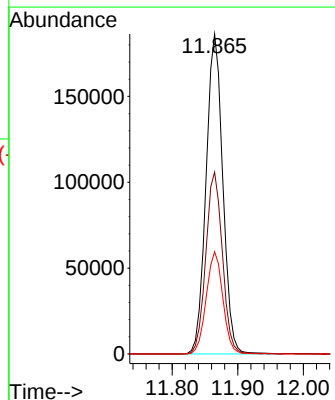
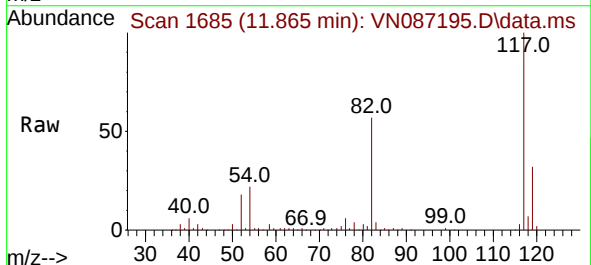
Instrument :
MSVOA_N
ClientSampleId :
COP-SOIL-PILE

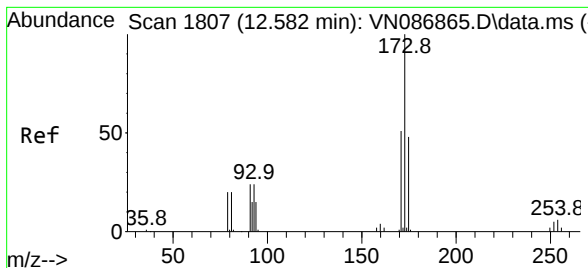
Tgt Ion: 95 Resp: 145391
Ion Ratio Lower Upper
95 100
174 71.1 0.0 141.8
176 67.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Tgt Ion: 117 Resp: 331140
Ion Ratio Lower Upper
117 100
82 56.9 44.6 67.0
119 31.9 25.5 38.3





#71

Bromoform

Concen: 0.449 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN087195.D

Acq: 26 Jun 2025 15:10

Instrument :

MSVOA_N

ClientSampleId :

COP-SOIL-PILE

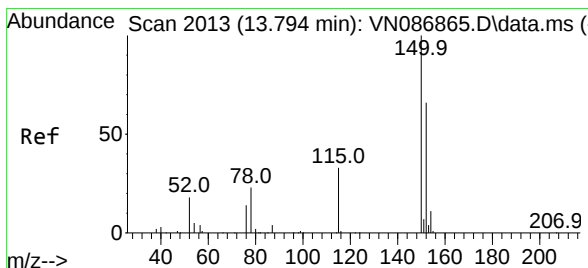
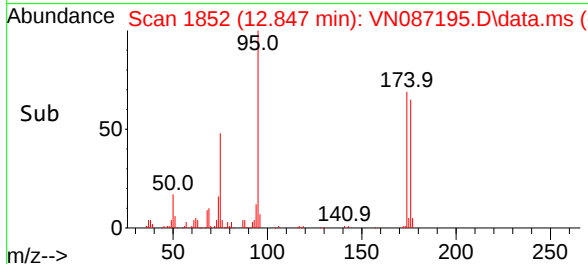
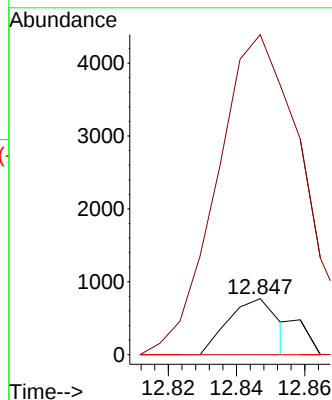
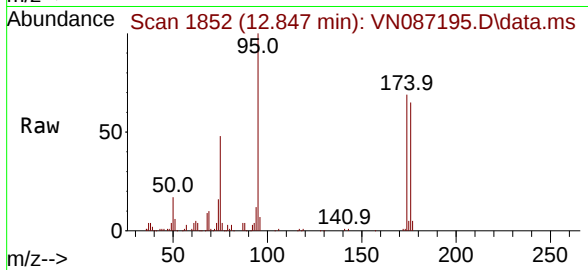
Tgt Ion:173 Resp: 781

Ion Ratio Lower Upper

173 100

175 888.3 24.1 72.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN087195.D

Acq: 26 Jun 2025 15:10

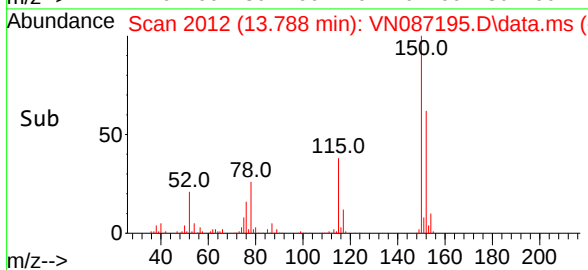
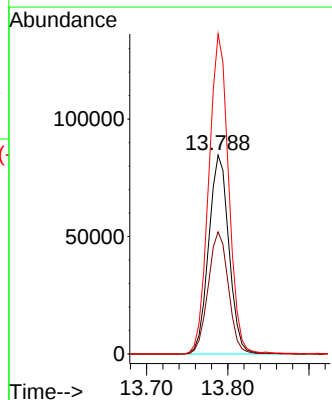
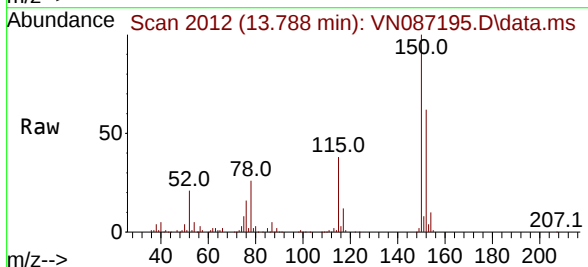
Tgt Ion:152 Resp: 146598

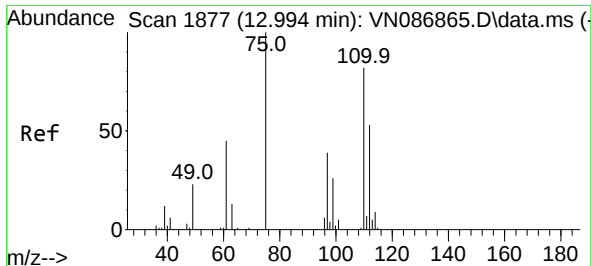
Ion Ratio Lower Upper

152 100

115 61.4 30.1 90.5

150 158.0 0.0 345.0

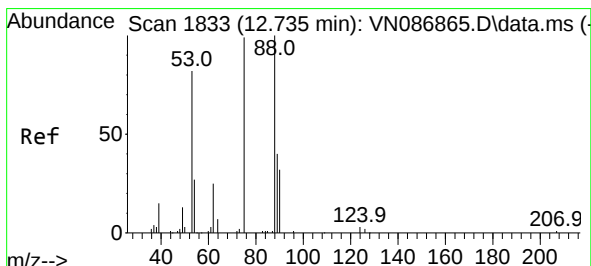
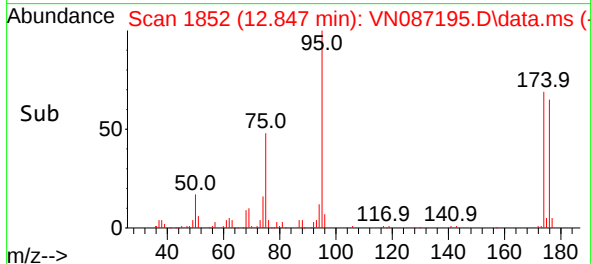
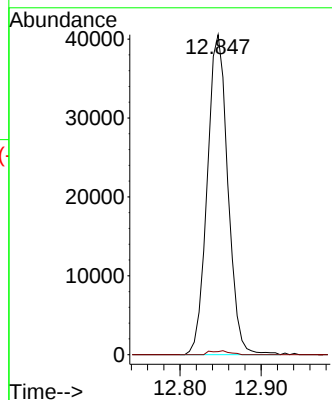
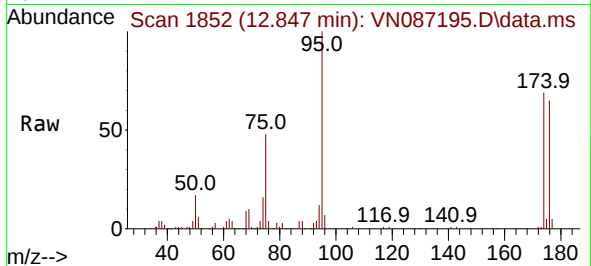




#76
1,2,3-Trichloropropane
Concen: 20.526 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Instrument :
MSVOA_N
ClientSampleId :
COP-SOIL-PILE

Tgt Ion: 75 Resp: 71525
Ion Ratio Lower Upper
75 100
77 1.2 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 47.249 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087195.D
Acq: 26 Jun 2025 15:10

Tgt Ion: 75 Resp: 71525
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.1 36.7 55.1#

