

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050625\
 Data File : VN086513.D
 Acq On : 06 May 2025 14:35
 Operator : JC\MD
 Sample : Q1959-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE

Quant Time: May 07 02:55:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

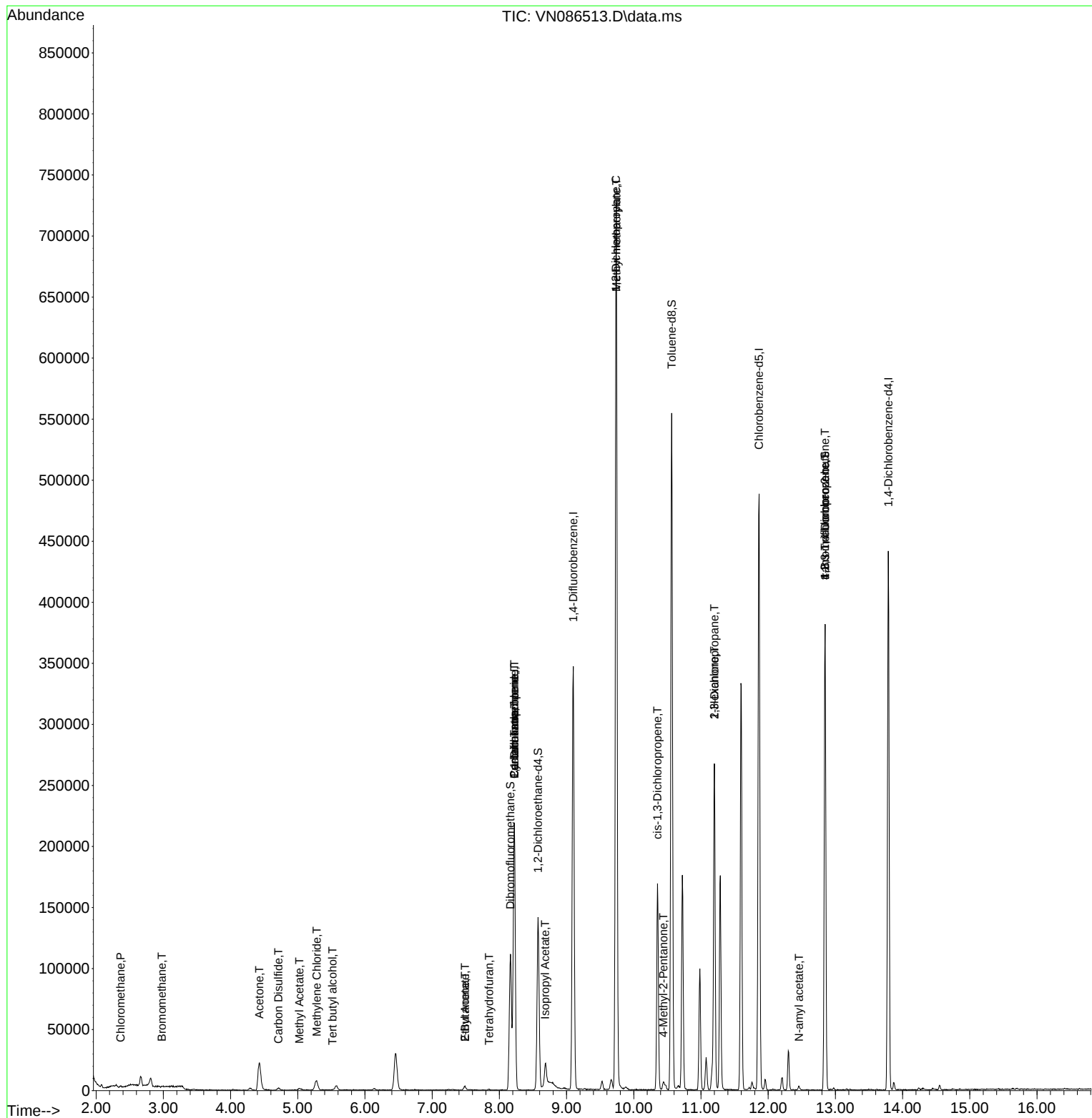
Internal Standards						
1) Pentafluorobenzene	8.224	168	165293	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	308527	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	290315	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	123412	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116517	48.612	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	97.220%	
35) Dibromofluoromethane	8.165	113	82779	57.810	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	115.620%	
50) Toluene-d8	10.565	98	388461	50.760	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	101.520%	
62) 4-Bromofluorobenzene	12.847	95	135707	48.618	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	97.240%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	682	0.239	ug/l #	42
5) Bromomethane	2.977	94	255	0.209	ug/l	83
11) Tert butyl alcohol	5.518	59	267	0.611	ug/l #	72
16) Acetone	4.430	43	44880	49.582	ug/l	97
17) Carbon Disulfide	4.712	76	3139	0.539	ug/l #	84
18) Methyl Acetate	5.024	43	2545	0.885	ug/l	93
20) Methylene Chloride	5.283	84	6508	2.937	ug/l	88
25) 2-Butanone	7.488	43	4986	3.342	ug/l	94
29) Tetrahydrofuran	7.847	42	570	0.571	ug/l #	59
31) Cyclohexane	8.224	56	3550	0.914	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	12685	4.435	ug/l #	49
37) Ethyl Acetate	7.488	43	4986	1.656	ug/l #	68
38) Carbon Tetrachloride	8.224	117	16007	5.877	ug/l #	15
43) Isopropyl Acetate	8.682	43	30542	3.857	ug/l #	82
45) 1,2-Dichloropropane	9.735	63	850	0.379	ug/l #	43
48) Methyl methacrylate	9.741	41	65872	24.912	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	4802	1.557	ug/l	94
54) cis-1,3-Dichloropropene	10.353	75	32181	8.503	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	2827	0.775	ug/l #	43
59) 2-Hexanone	11.200	43	52728	23.056	ug/l #	42
74) N-amyl acetate	12.459	43	2725	0.542	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	70926	24.354	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	70926	58.488	ug/l #	10

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

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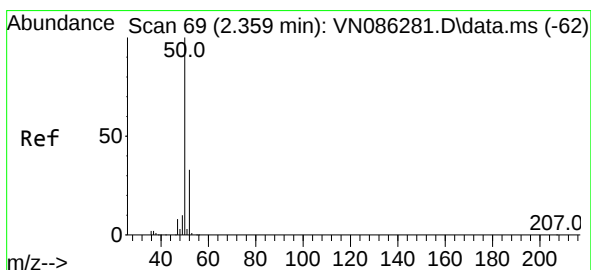
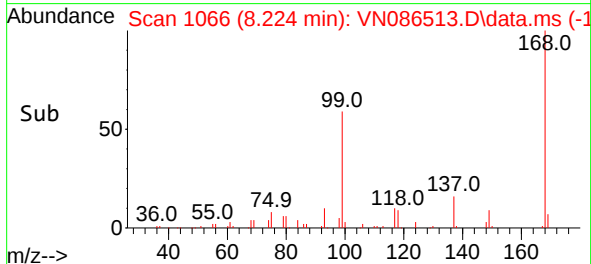
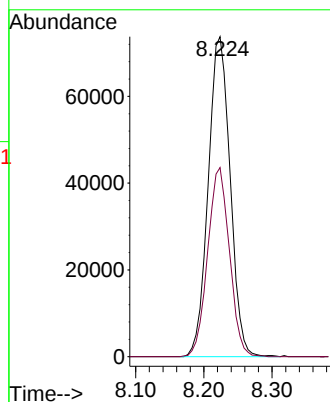
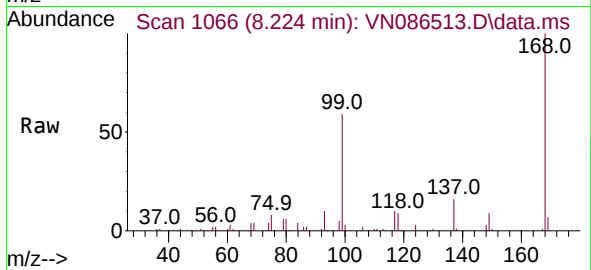




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

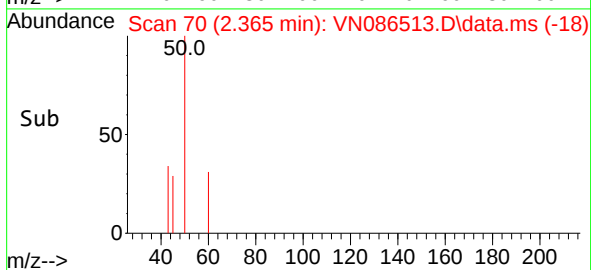
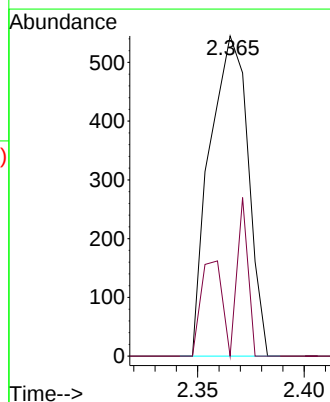
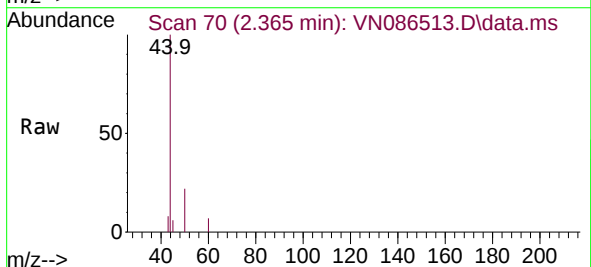
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

Tgt Ion:168 Resp: 165293
Ion Ratio Lower Upper
168 100
99 59.1 52.5 78.7



#3
Chloromethane
Concen: 0.239 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion: 50 Resp: 682
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

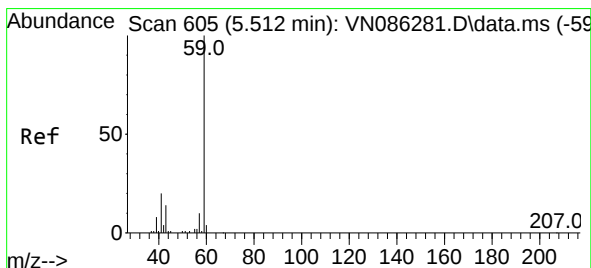
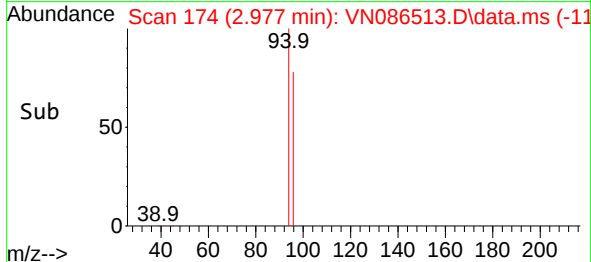
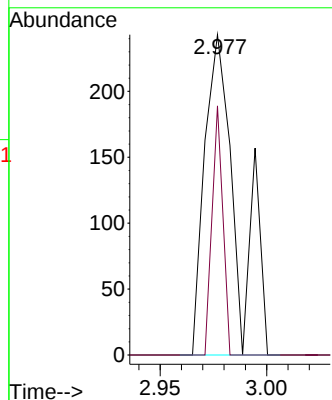
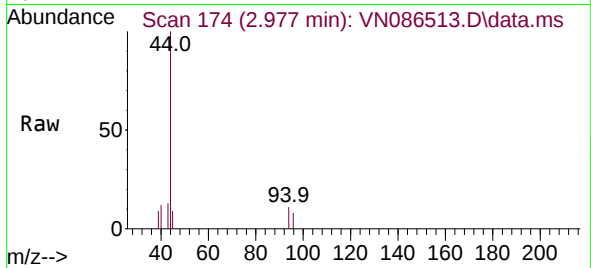




#5
Bromomethane
Concen: 0.209 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

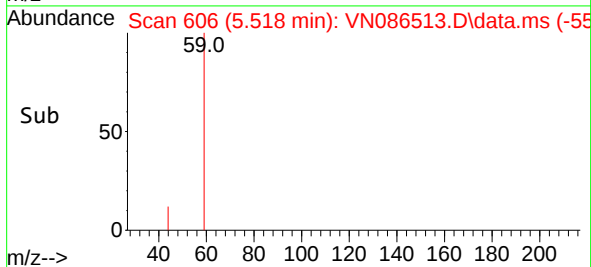
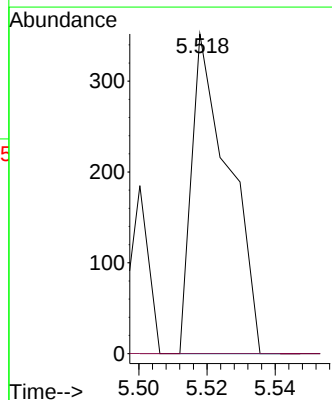
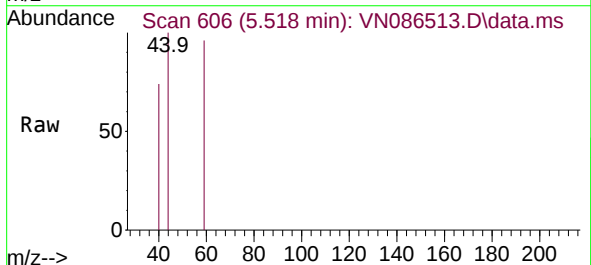
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

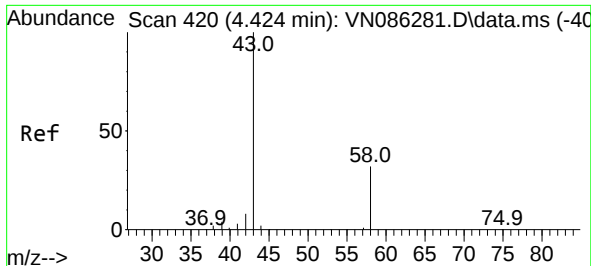
Tgt Ion: 94 Resp: 255
Ion Ratio Lower Upper
94 100
96 77.8 75.2 112.8



#11
Tert butyl alcohol
Concen: 0.611 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion: 59 Resp: 267
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

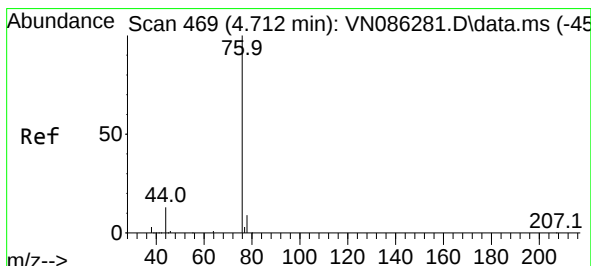
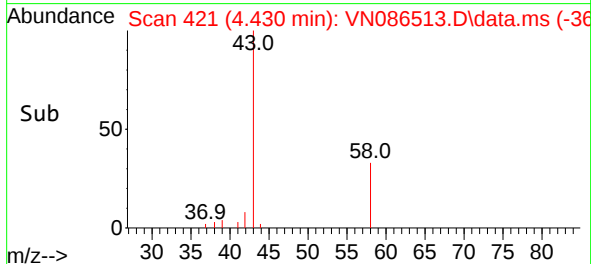
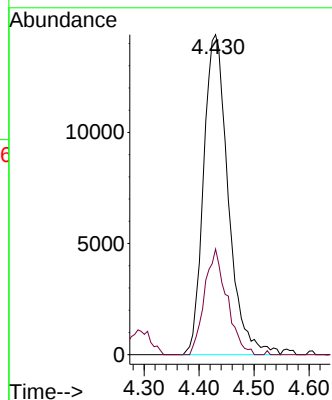
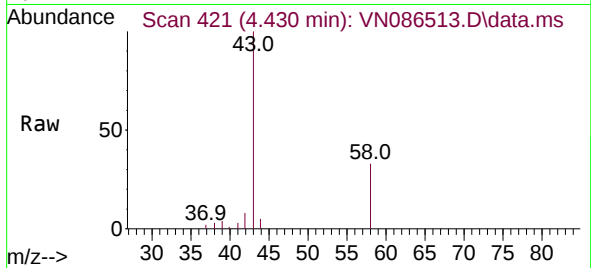




#16
Acetone
Concen: 49.582 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

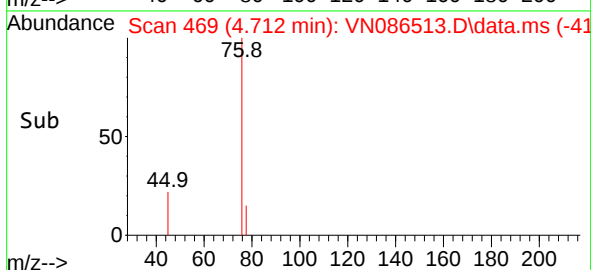
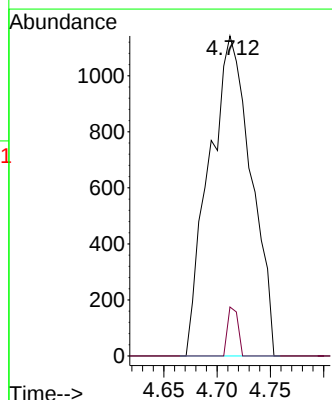
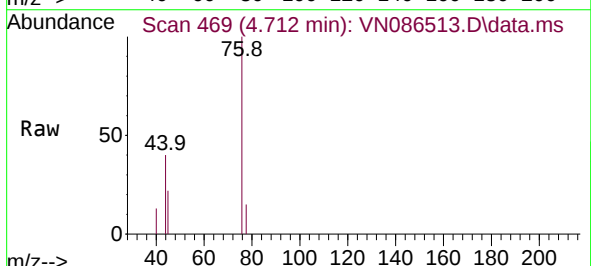
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

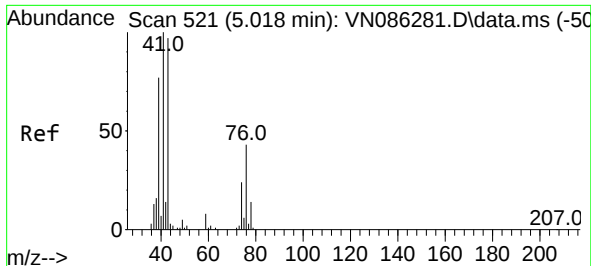
Tgt Ion: 43 Resp: 44880
Ion Ratio Lower Upper
43 100
58 33.0 25.3 37.9



#17
Carbon Disulfide
Concen: 0.539 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion: 76 Resp: 3139
Ion Ratio Lower Upper
76 100
78 15.3 7.6 11.4#

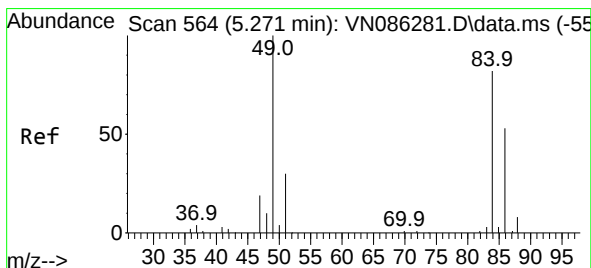
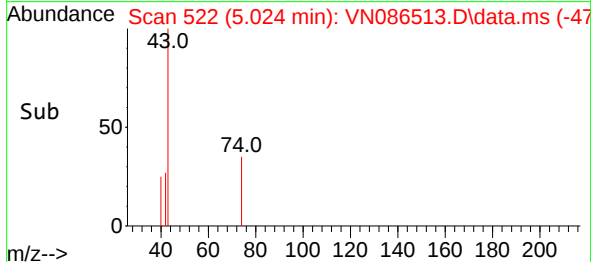
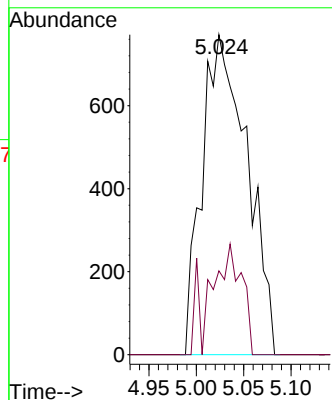
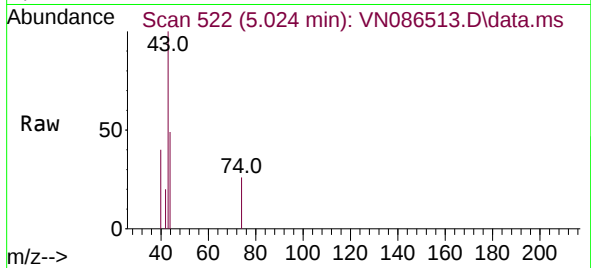




#18
Methyl Acetate
Concen: 0.885 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

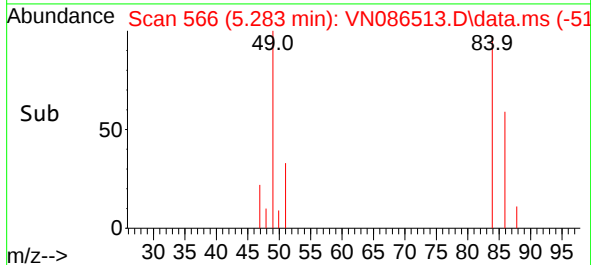
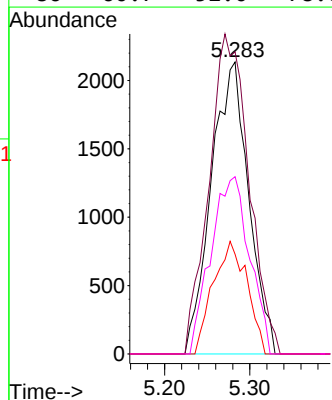
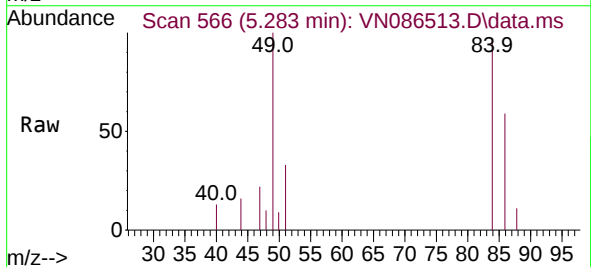
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

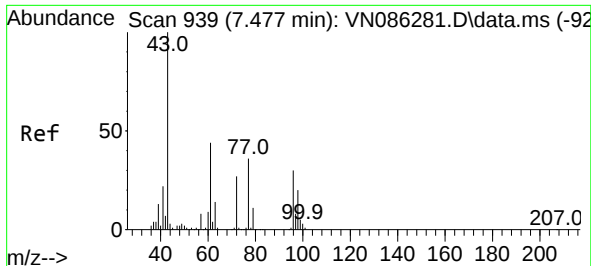
Tgt Ion: 43 Resp: 2545
Ion Ratio Lower Upper
43 100
74 21.2 19.8 29.6



#20
Methylene Chloride
Concen: 2.937 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion: 84 Resp: 6508
Ion Ratio Lower Upper
84 100
49 103.5 98.2 147.2
51 34.1 29.8 44.6
86 60.7 52.0 78.0

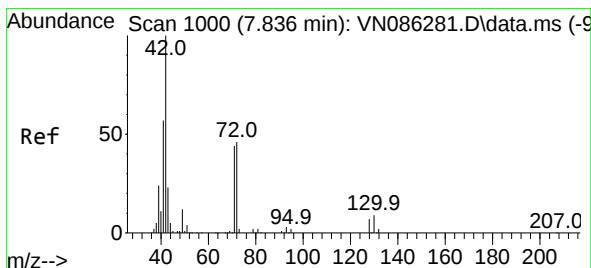
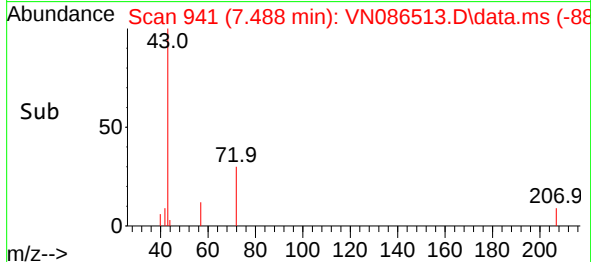
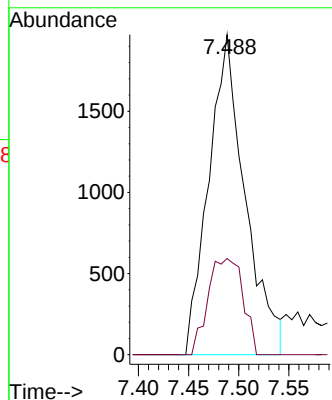
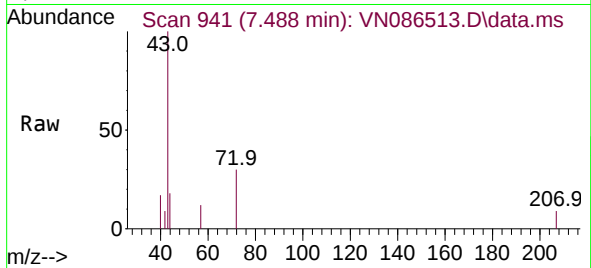




#25
2-Butanone
Concen: 3.342 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

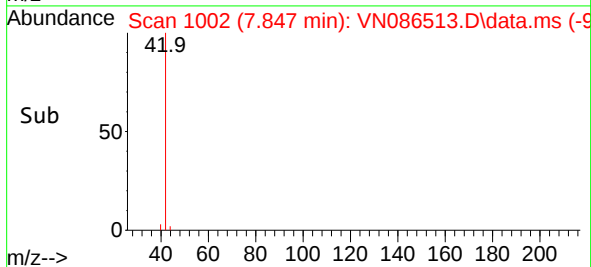
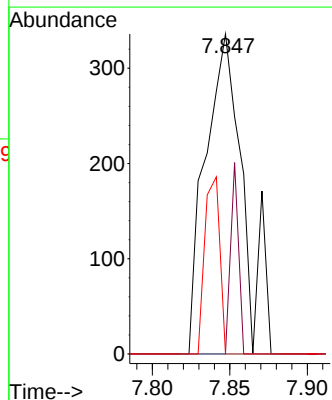
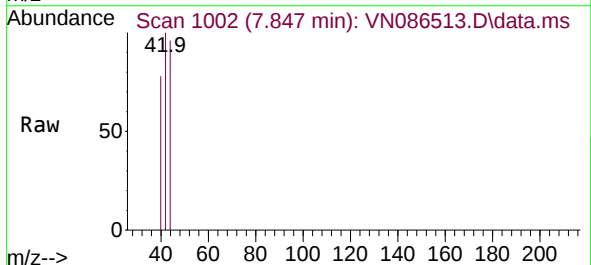
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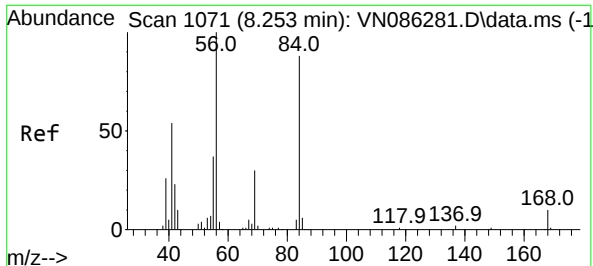
Tgt Ion: 43 Resp: 4986
Ion Ratio Lower Upper
43 100
72 30.1 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.571 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion: 42 Resp: 570
Ion Ratio Lower Upper
42 100
72 12.5 36.2 54.4#
71 21.9 34.0 51.0#

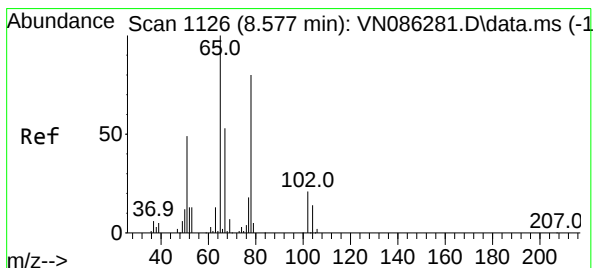
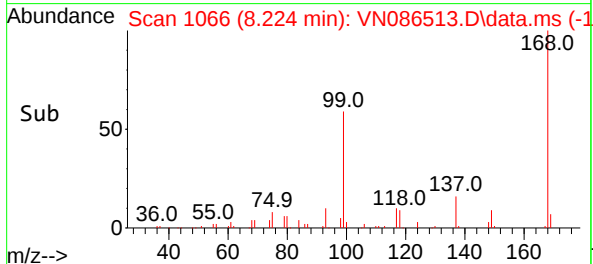
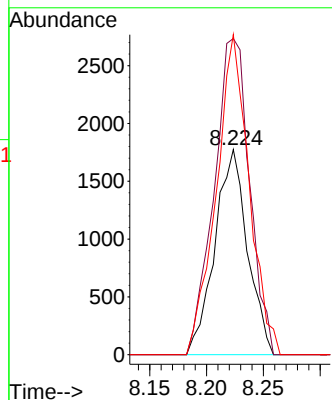
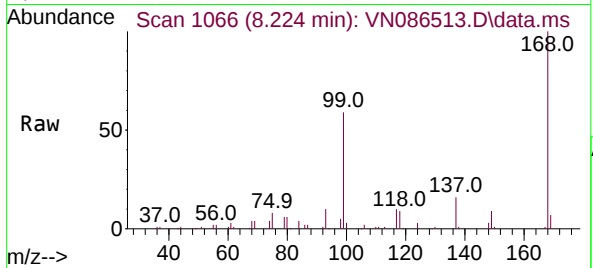




#31
Cyclohexane
Concen: 0.914 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

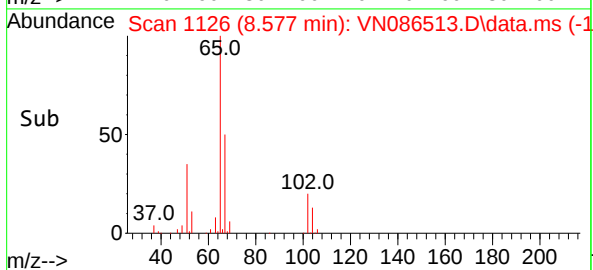
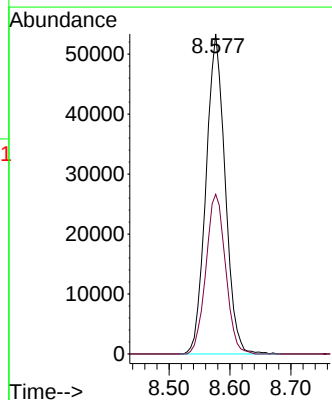
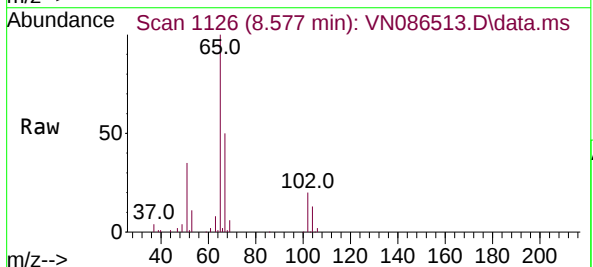
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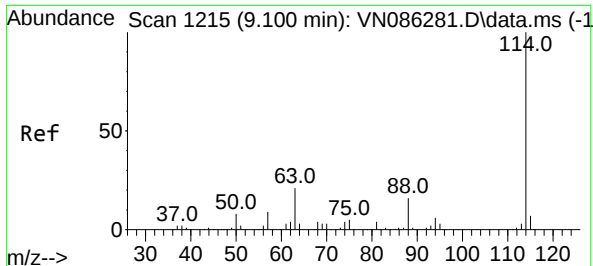
Tgt Ion: 56 Resp: 3550
Ion Ratio Lower Upper
56 100
69 154.1 24.2 36.2#
84 155.9 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.612 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion: 65 Resp: 116517
Ion Ratio Lower Upper
65 100
67 51.1 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086513.D

Acq: 06 May 2025 14:35

Instrument :

MSVOA_N

ClientSampleId :

SOIL-PILE

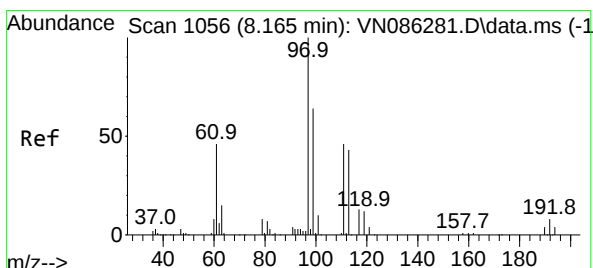
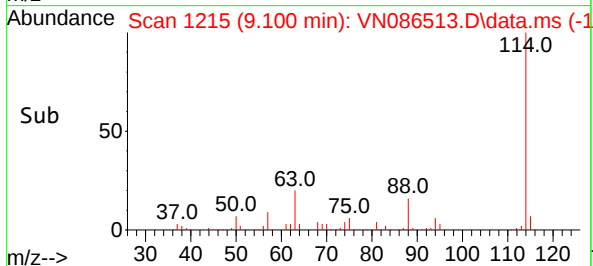
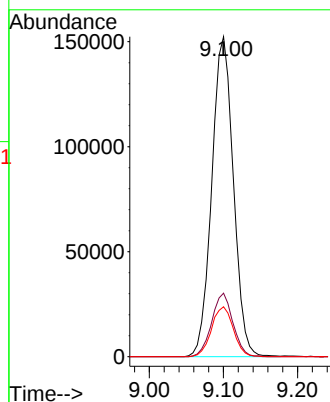
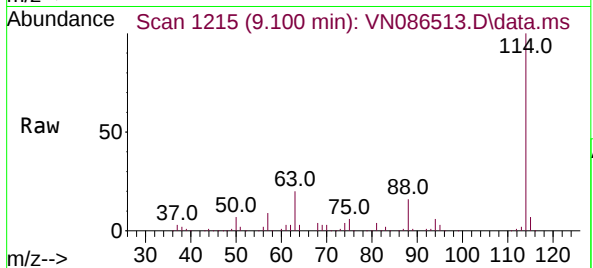
Tgt Ion:114 Resp: 308527

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.6

88 15.6 0.0 31.8



#35

Dibromofluoromethane

Concen: 57.810 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086513.D

Acq: 06 May 2025 14:35

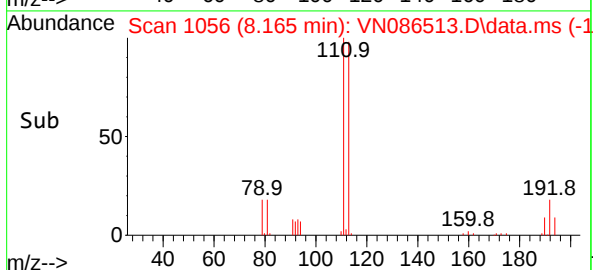
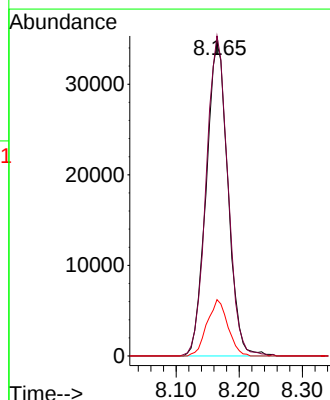
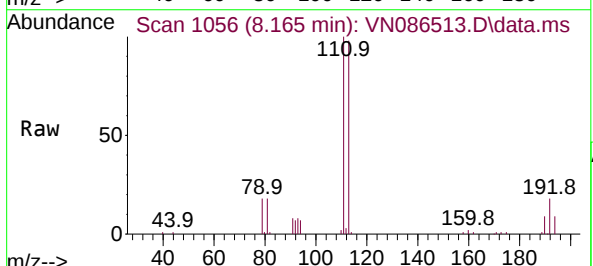
Tgt Ion:113 Resp: 82779

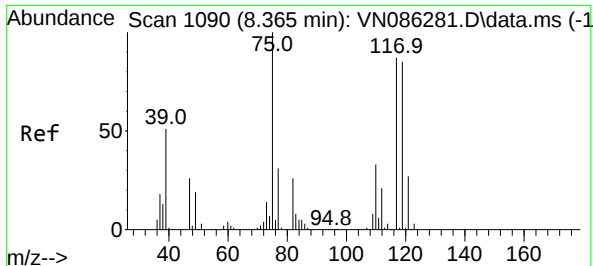
Ion Ratio Lower Upper

113 100

111 101.4 83.4 125.0

192 17.1 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.435 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN086513.D

Acq: 06 May 2025 14:35

Instrument :

MSVOA_N

ClientSampleId :

SOIL-PILE

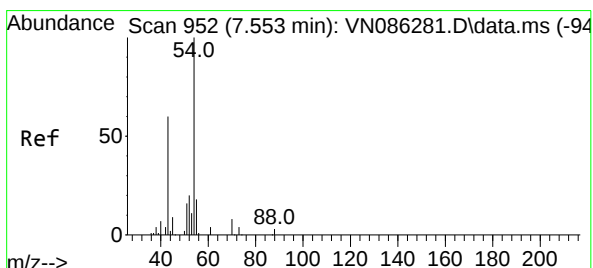
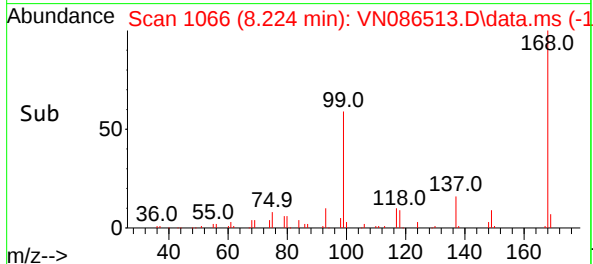
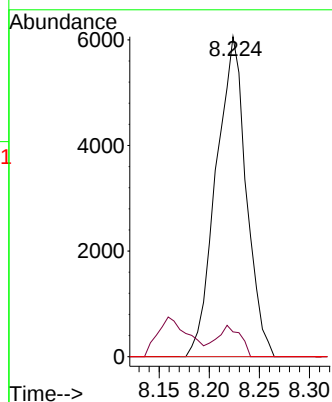
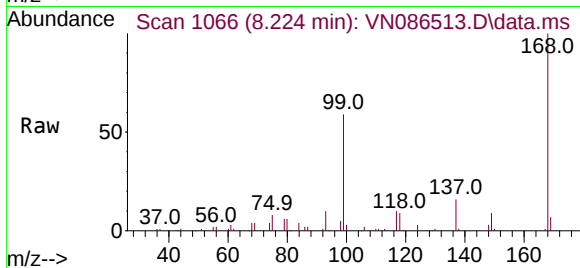
Tgt Ion: 75 Resp: 12685

Ion Ratio Lower Upper

75 100

110 7.8 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 1.656 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.065 min

Lab File: VN086513.D

Acq: 06 May 2025 14:35

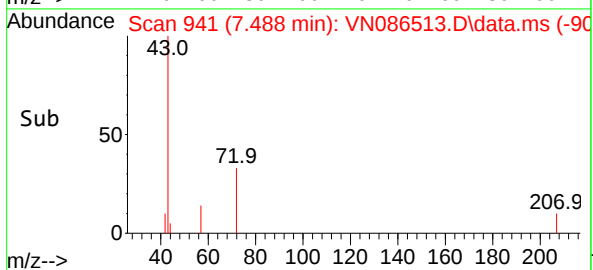
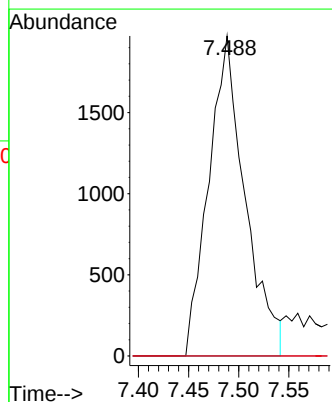
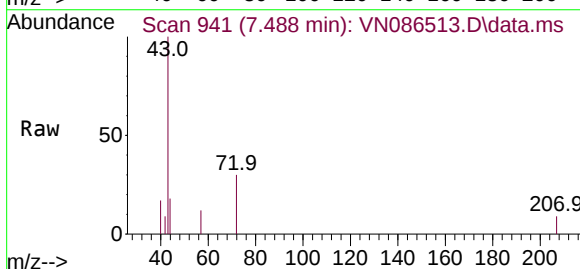
Tgt Ion: 43 Resp: 4986

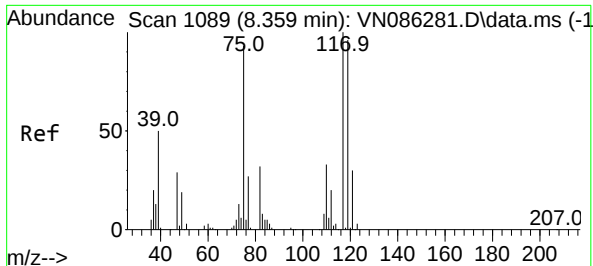
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#

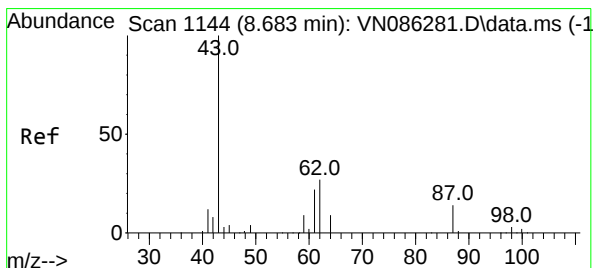
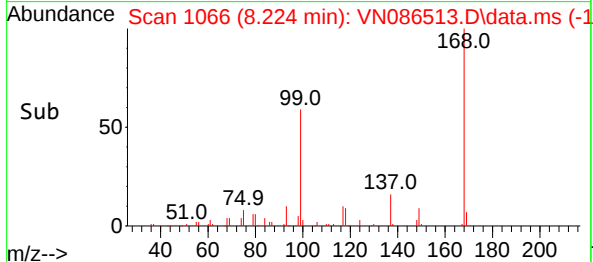
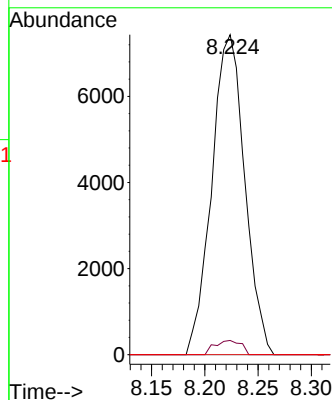
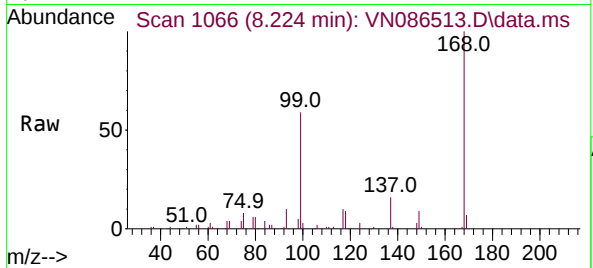




#38
Carbon Tetrachloride
Concen: 5.877 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

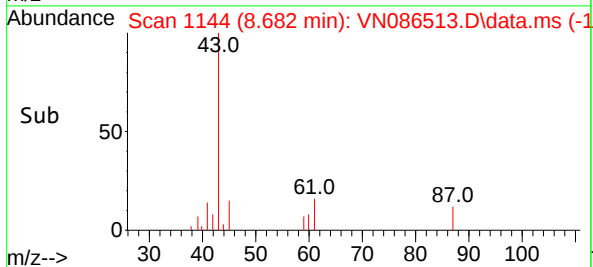
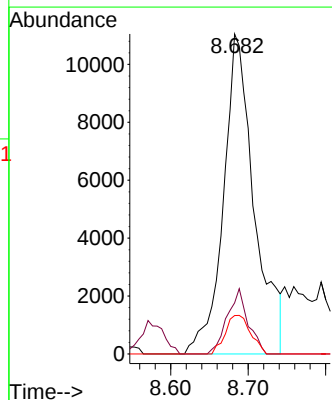
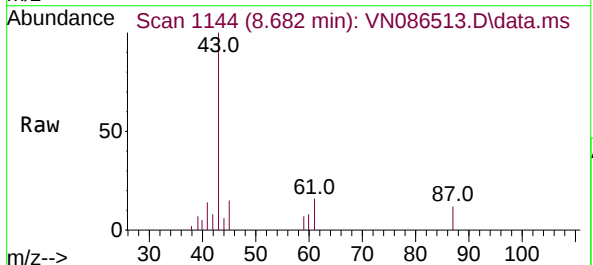
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

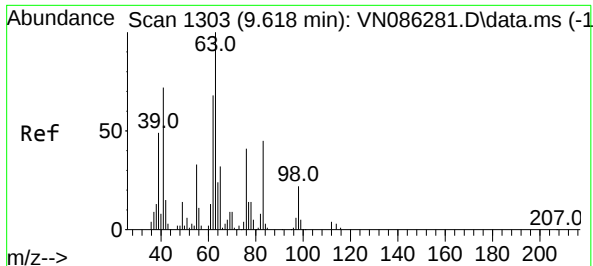
Tgt Ion:117 Resp: 16007
Ion Ratio Lower Upper
117 100
119 4.5 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 3.857 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion: 43 Resp: 30542
Ion Ratio Lower Upper
43 100
61 13.8 20.5 30.7#
87 9.9 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.379 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086513.D

Acq: 06 May 2025 14:35

Instrument :

MSVOA_N

ClientSampleId :

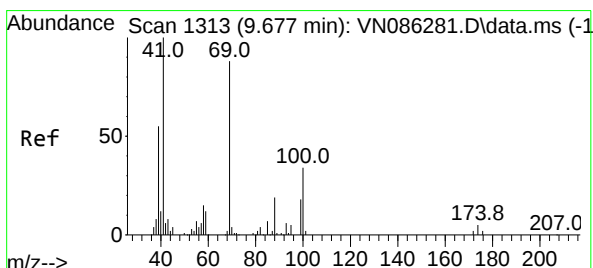
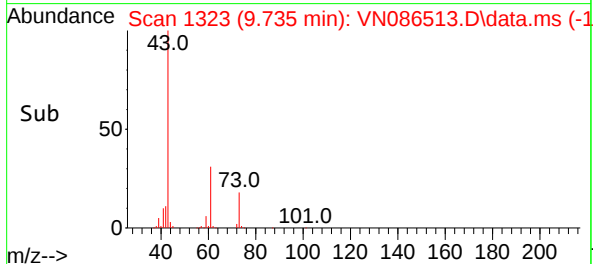
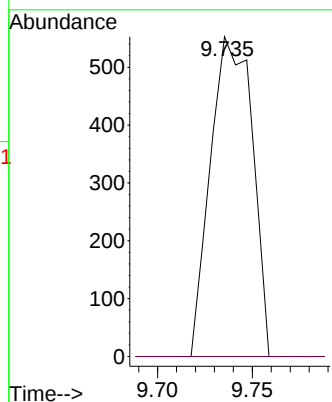
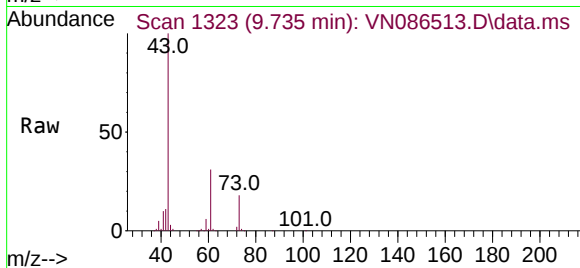
SOIL-PILE

Tgt Ion: 63 Resp: 850

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 24.912 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086513.D

Acq: 06 May 2025 14:35

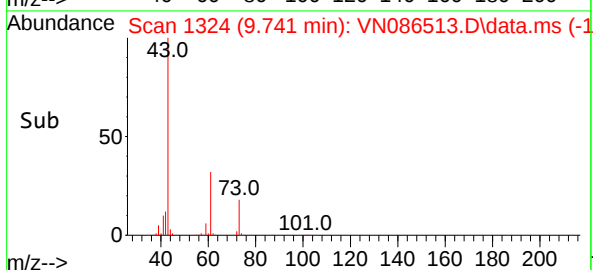
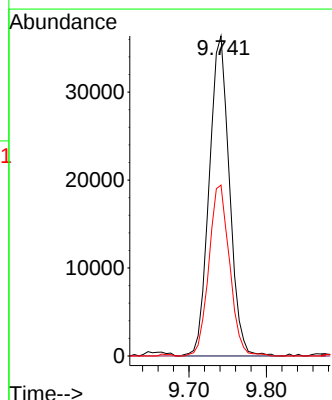
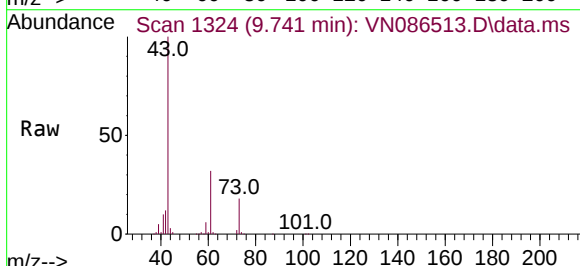
Tgt Ion: 41 Resp: 65872

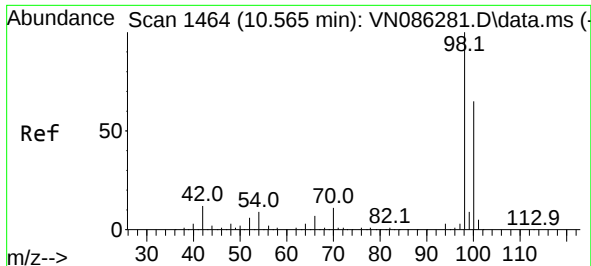
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 54.6 45.2 67.8

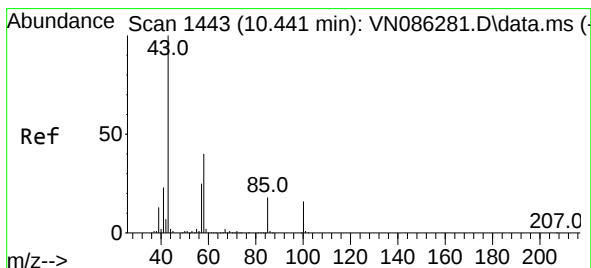
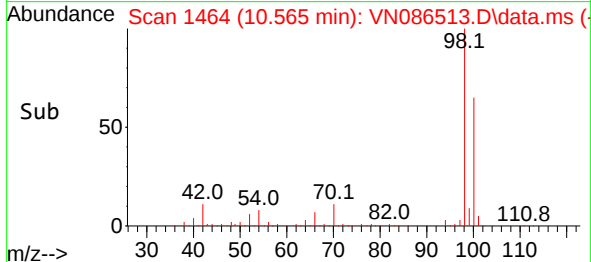
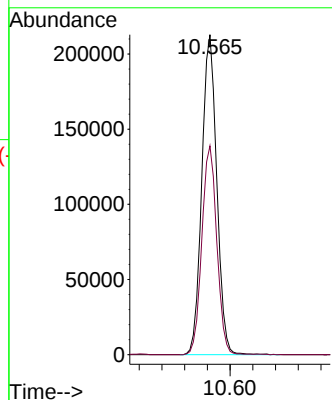
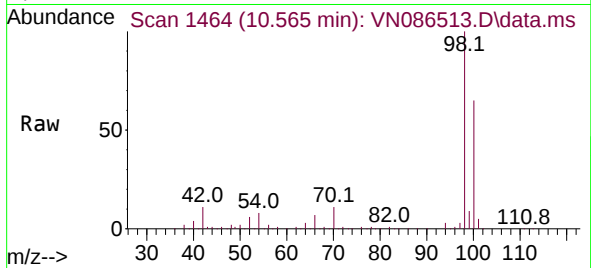




#50
Toluene-d8
Concen: 50.760 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

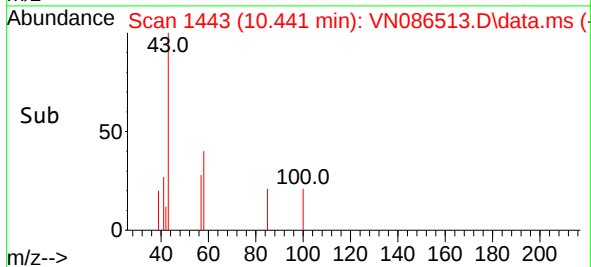
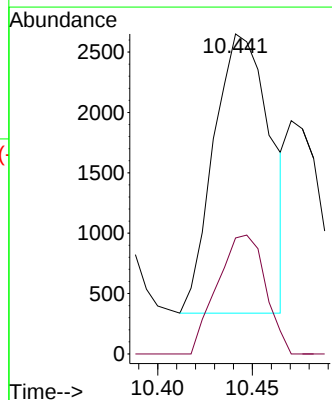
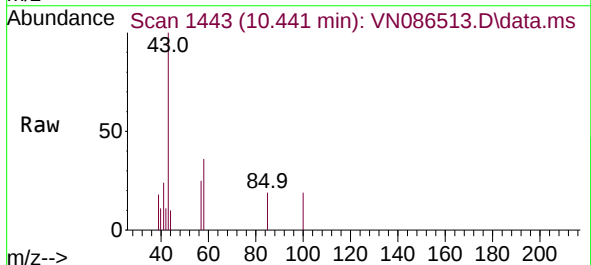
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

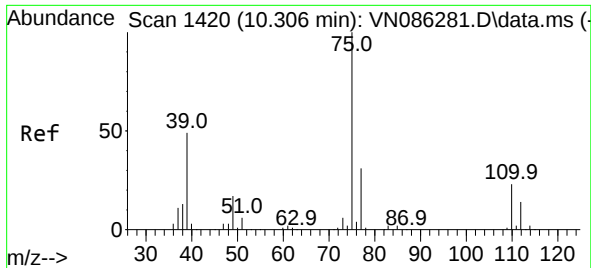
Tgt Ion: 98 Resp: 388461
Ion Ratio Lower Upper
98 100
100 65.2 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.557 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion: 43 Resp: 4802
Ion Ratio Lower Upper
43 100
58 36.3 32.2 48.4

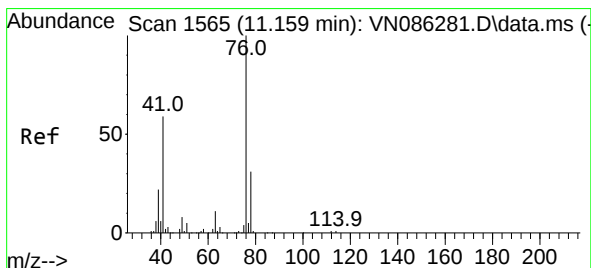
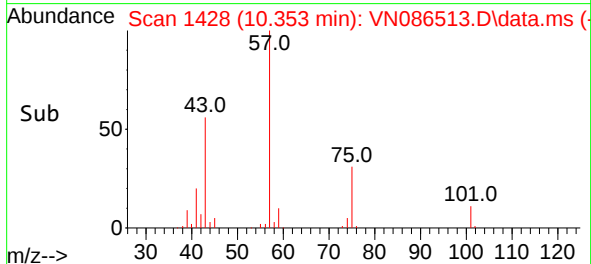
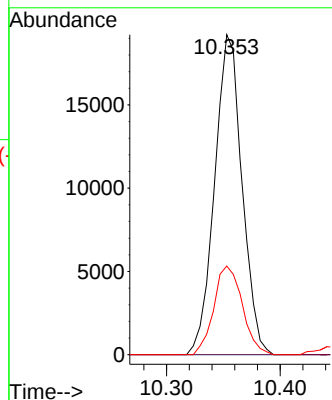
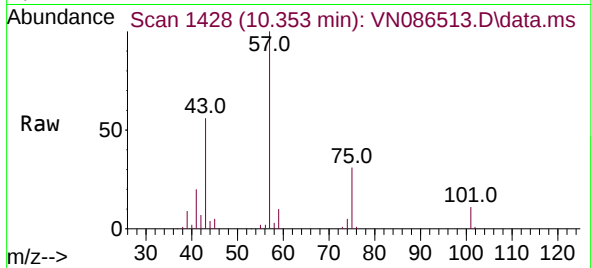




#54
 cis-1,3-Dichloropropene
 Concen: 8.503 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086513.D
 Acq: 06 May 2025 14:35

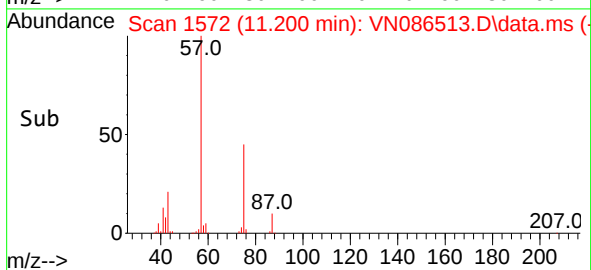
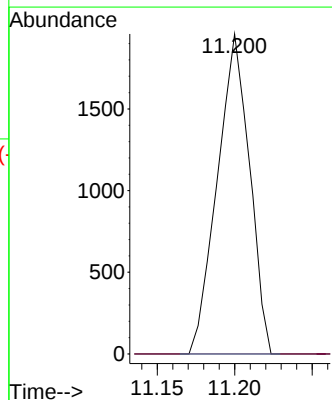
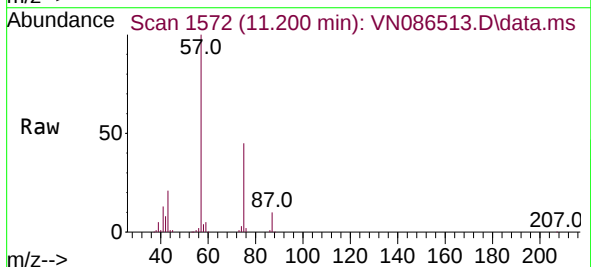
Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE

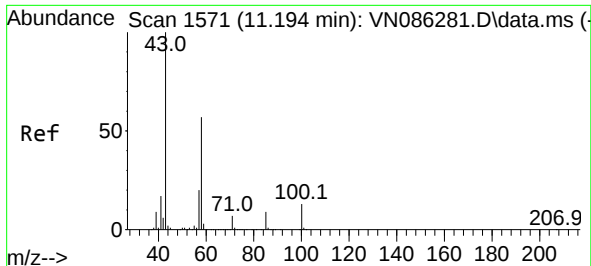
Tgt Ion: 75 Resp: 32181
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 27.7 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.775 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086513.D
 Acq: 06 May 2025 14:35

Tgt Ion: 76 Resp: 2827
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

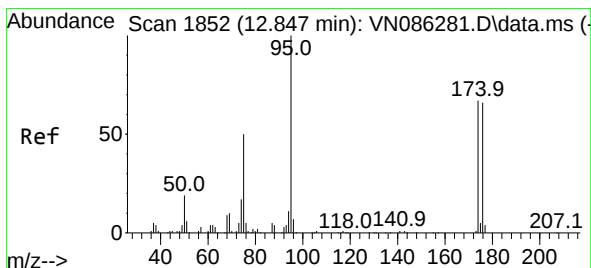
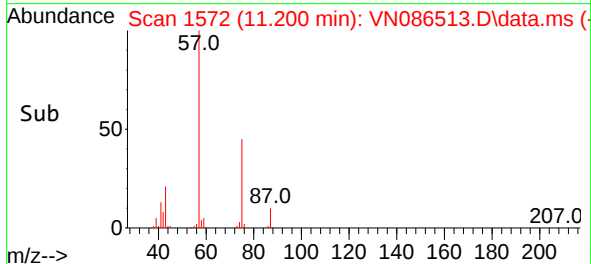
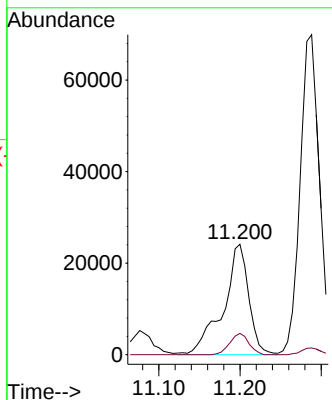
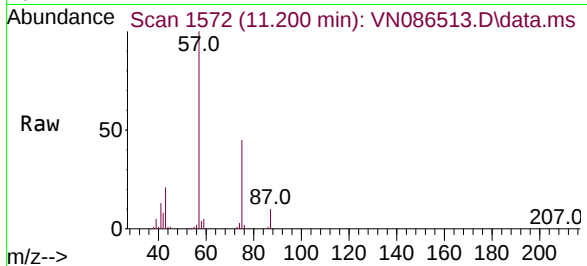




#59
2-Hexanone
Concen: 23.056 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

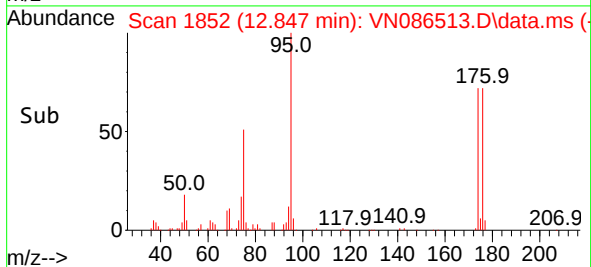
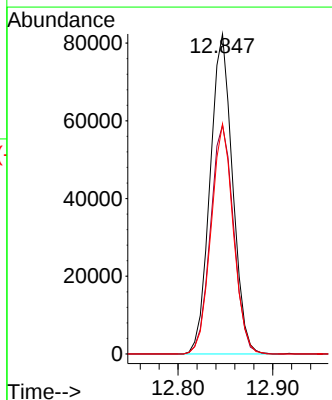
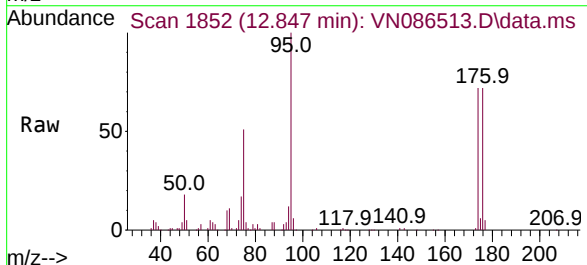
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

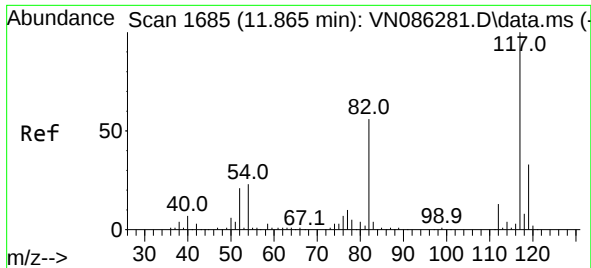
Tgt Ion: 43 Resp: 52728
Ion Ratio Lower Upper
43 100
58 14.4 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 48.618 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion: 95 Resp: 135707
Ion Ratio Lower Upper
95 100
174 73.6 0.0 133.4
176 71.3 0.0 129.2

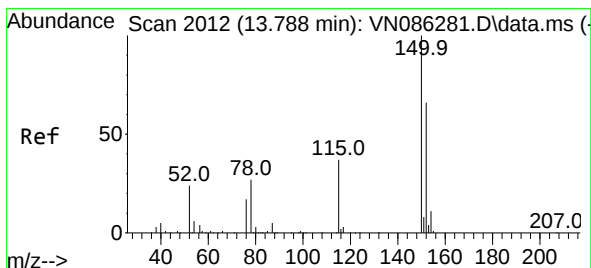
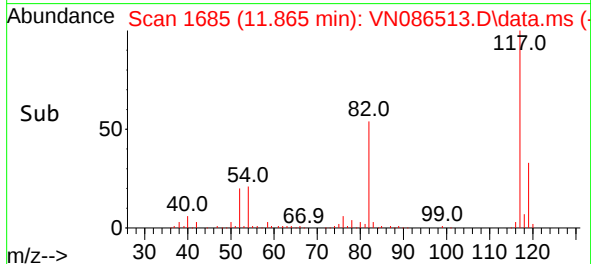
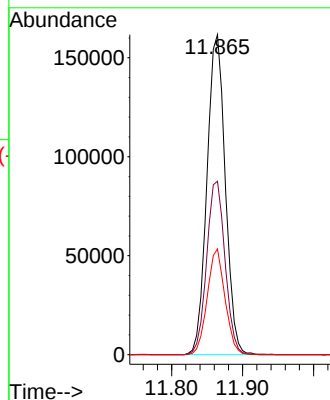
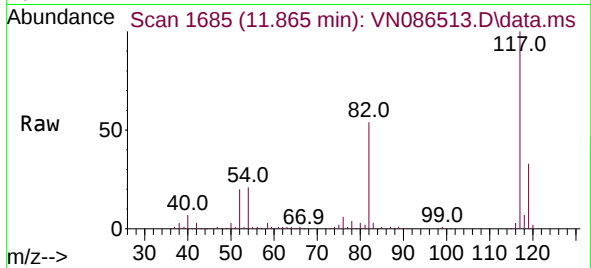




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

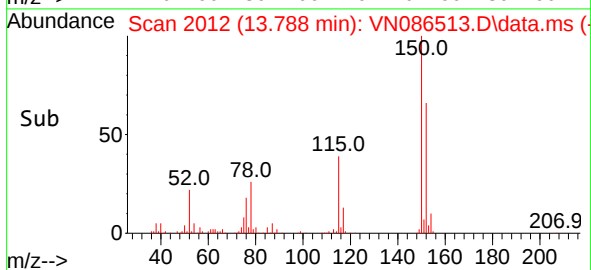
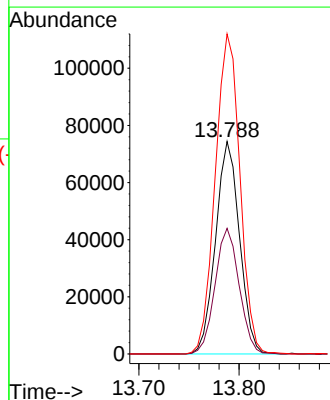
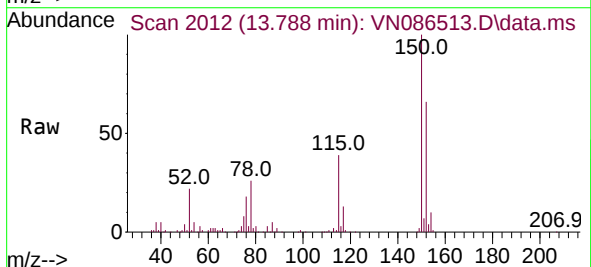
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

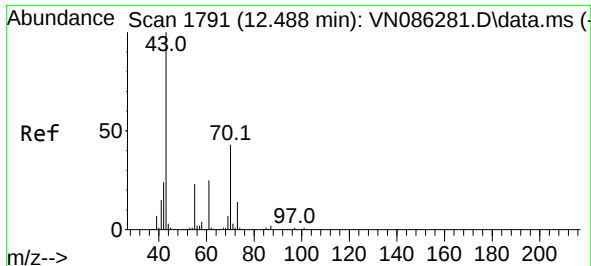
Tgt Ion:117 Resp: 290315
Ion Ratio Lower Upper
117 100
82 54.2 44.7 67.1
119 33.1 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion:152 Resp: 123412
Ion Ratio Lower Upper
152 100
115 59.5 31.9 95.9
150 155.2 0.0 352.0

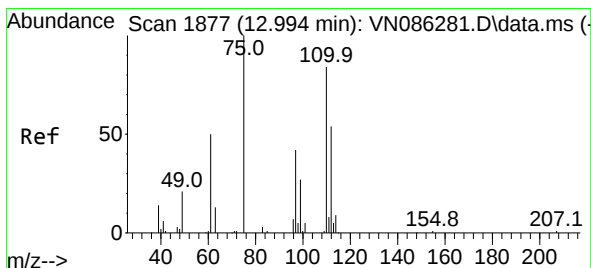
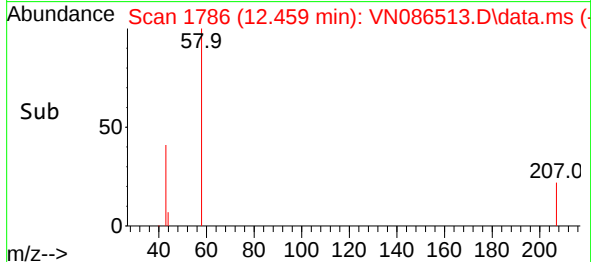
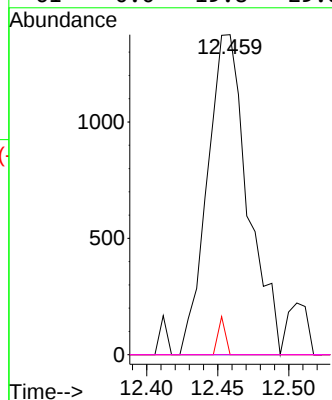
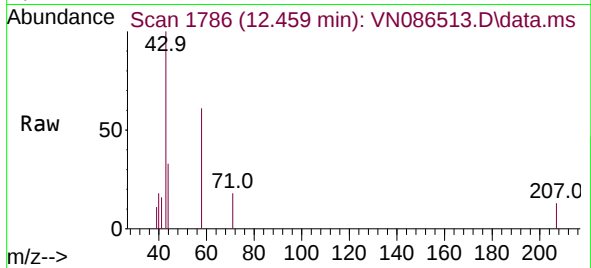




#74
N-amy1 acetate
Concen: 0.542 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

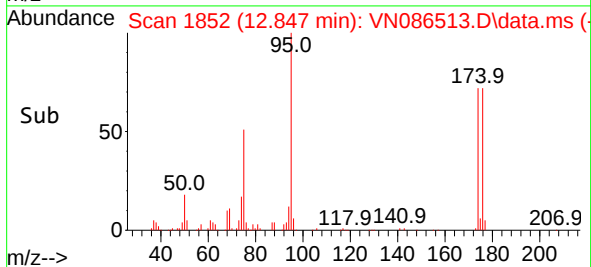
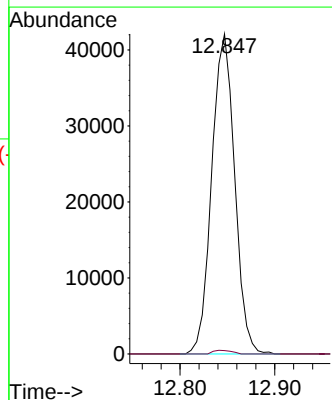
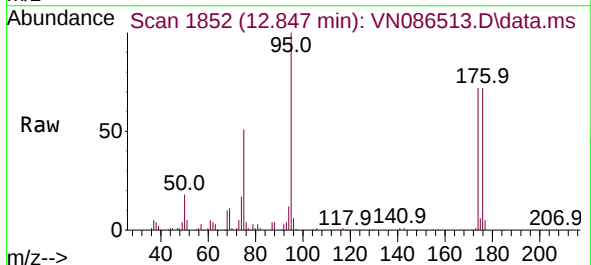
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

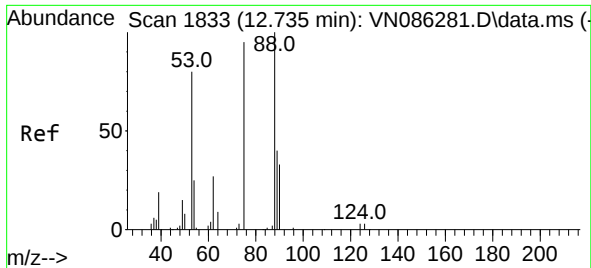
Tgt Ion: 43	Resp: 2725
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 2.1	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 24.354 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086513.D
Acq: 06 May 2025 14:35

Tgt Ion: 75	Resp: 70926
Ion Ratio	Lower Upper
75 100	
77 0.9	98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.488 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086513.D
 Acq: 06 May 2025 14:35

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE

Tgt Ion: 75 Resp: 70926
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

