

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061623\
 Data File : VN078264.D
 Acq On : 16 Jun 2023 16:53
 Operator : JC\MD
 Sample : 03262-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WS-SOIL2-0615

Quant Time: Jun 17 02:26:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

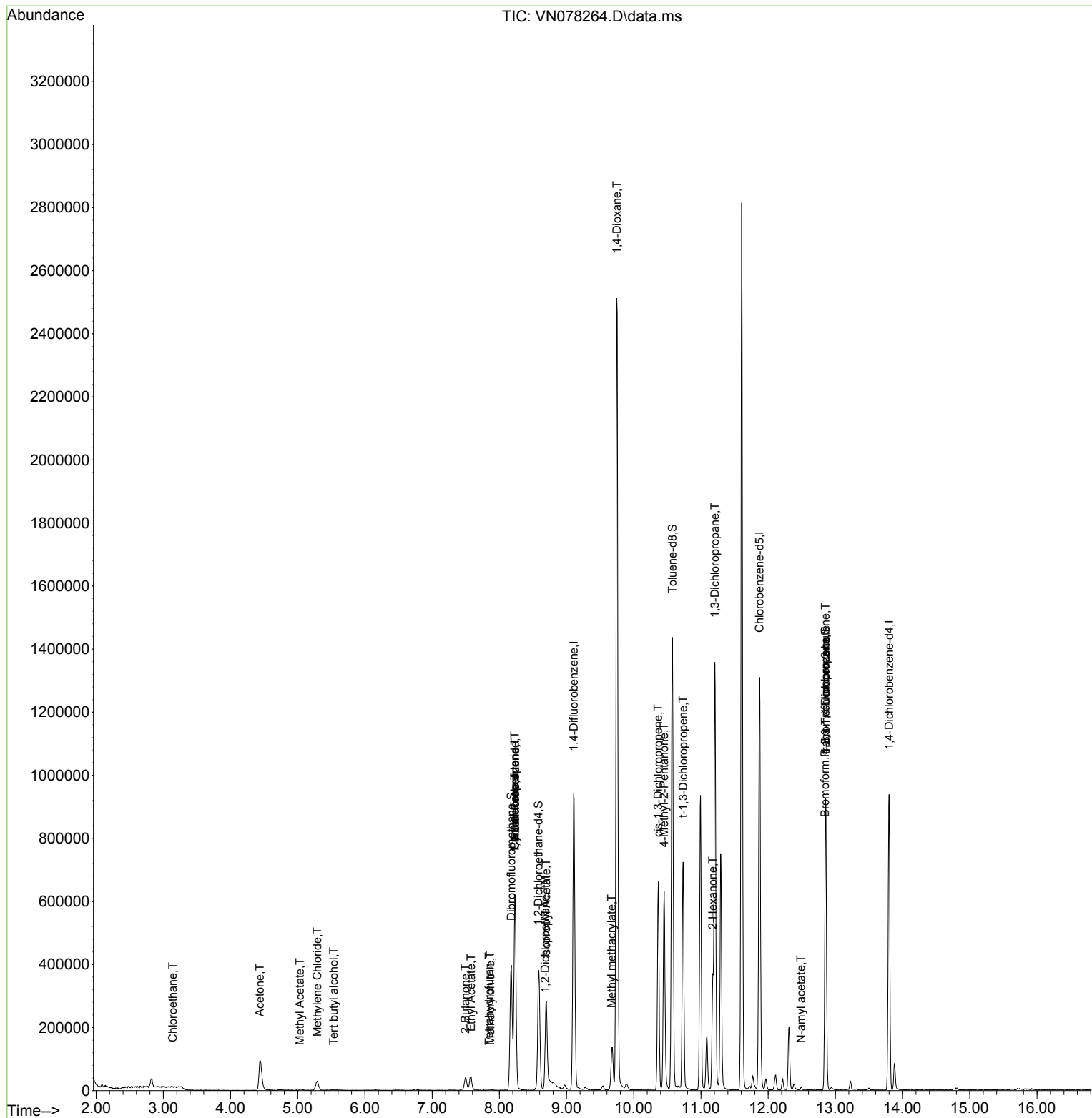
Internal Standards						
1) Pentafluorobenzene	8.230	168	440345	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	827883	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	785089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	256969	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	319478	54.415	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.820%			
35) Dibromofluoromethane	8.177	113	283120	54.086	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.180%			
50) Toluene-d8	10.576	98	1022019	50.645	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.300%			
62) 4-Bromofluorobenzene	12.853	95	330559	52.692	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.380%			
Target Compounds						Qvalue
3) Chloromethane	2.371	50	942	Below Cal	#	76
6) Chloroethane	3.142	64	926	0.208	ug/l #	43
11) Tert butyl alcohol	5.536	59	457	0.564	ug/l #	72
16) Acetone	4.436	43	181445	107.368	ug/l	93
18) Methyl Acetate	5.030	43	2757	0.354	ug/l #	72
20) Methylene Chloride	5.289	84	22496	4.028	ug/l #	91
25) 2-Butanone	7.494	43	61566	23.691	ug/l #	77
29) Tetrahydrofuran	7.847	42	2599	1.496	ug/l #	43
31) Cyclohexane	8.230	56	10866	1.443	ug/l #	25
36) 1,1-Dichloropropene	8.235	75	36269	4.830	ug/l #	48
37) Ethyl Acetate	7.577	43	68880	11.743	ug/l #	94
38) Carbon Tetrachloride	8.230	117	48183	6.077	ug/l #	15
41) Methacrylonitrile	7.865	41	1190	0.374	ug/l #	27
42) 1,2-Dichloroethane	8.682	62	2580	0.336	ug/l	80
43) Isopropyl Acetate	8.694	43	325900	29.052	ug/l #	80
48) Methyl methacrylate	9.671	41	8610	1.829	ug/l #	31
49) 1,4-Dioxane	9.747	88	337	3.406	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	426472	72.197	ug/l	90
53) t-1,3-Dichloropropene	10.735	75	2309	0.291	ug/l #	61
54) cis-1,3-Dichloropropene	10.365	75	118771	13.521	ug/l #	65
57) 1,3-Dichloropropane	11.206	76	15660	1.733	ug/l #	42
59) 2-Hexanone	11.176	43	267247	64.975	ug/l #	19
71) Bromoform	12.847	173	2095	0.525	ug/l #	1
74) N-amyl acetate	12.488	43	3059	0.382	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.947	83	232	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	176357	29.031	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	176357	89.192	ug/l #	15

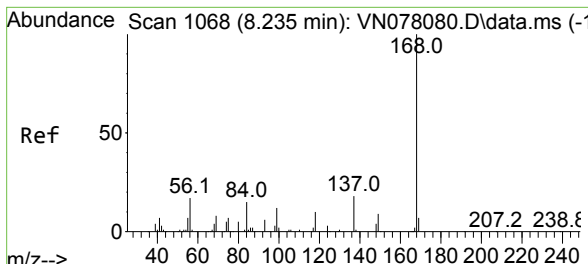
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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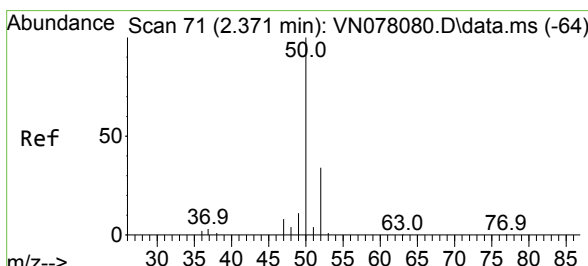
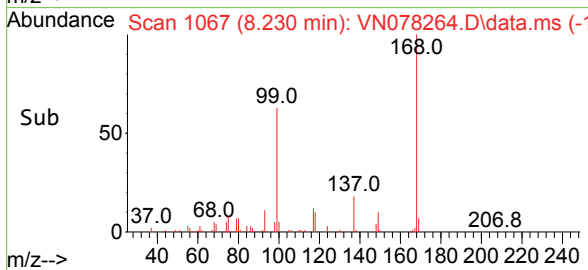
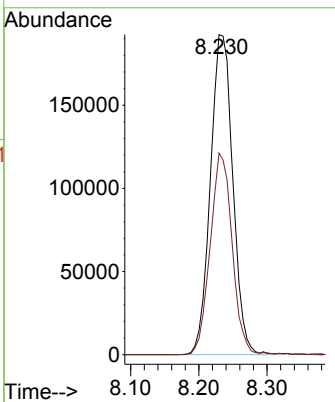
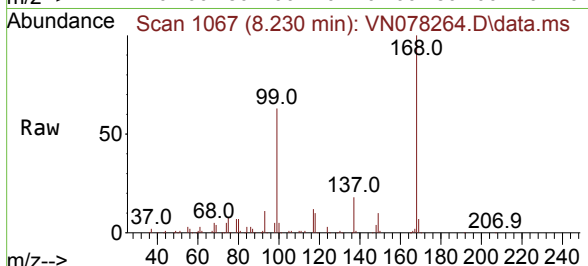




#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 8.230 min Scan# 10
 Delta R.T. -0.005 min
 Lab File: VN078264.D
 Acq: 16 Jun 2023 16:53

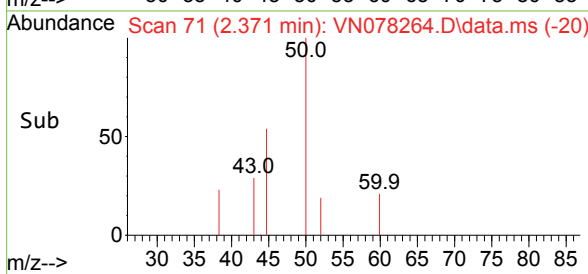
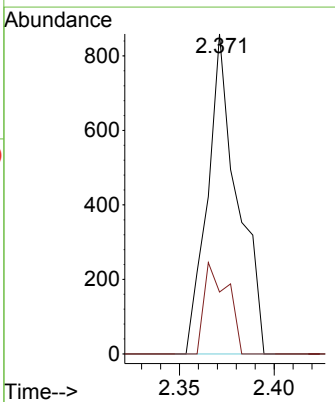
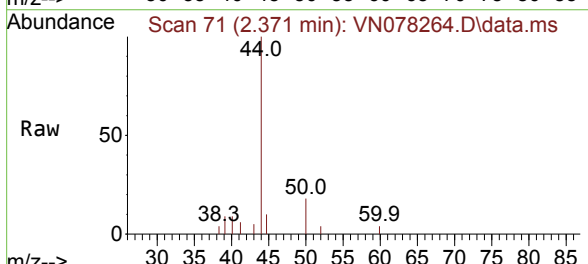
Instrument :
 MSVOA_N
 ClientSampleId :
 WS-SOIL2-0615

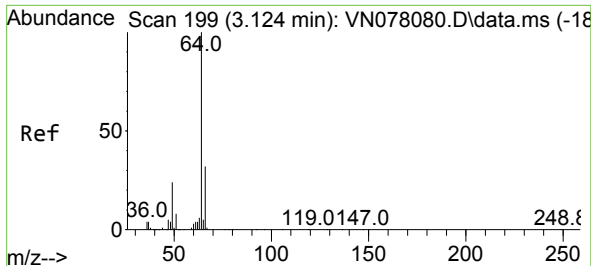
Tgt Ion:168 Resp: 440345
 Ion Ratio Lower Upper
 168 100
 99 63.0 53.0 79.6



#3
 Chloromethane
 Concen: Below Cal
 RT: 2.371 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VN078264.D
 Acq: 16 Jun 2023 16:53

Tgt Ion: 50 Resp: 942
 Ion Ratio Lower Upper
 50 100
 52 19.3 26.5 39.7#

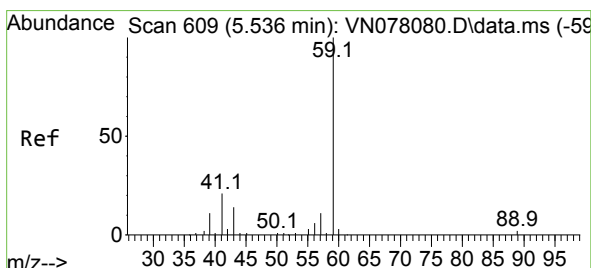
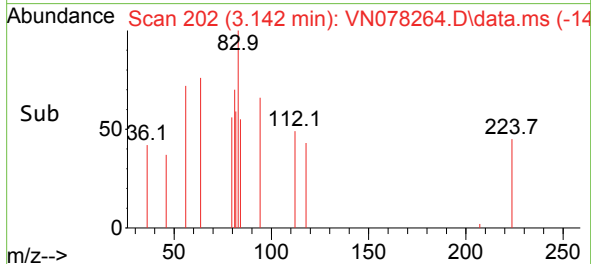
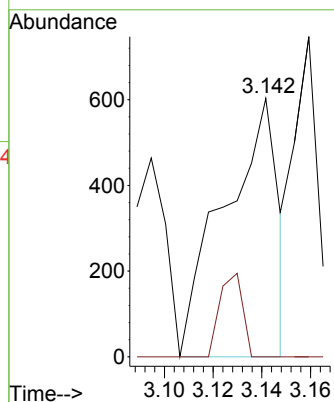
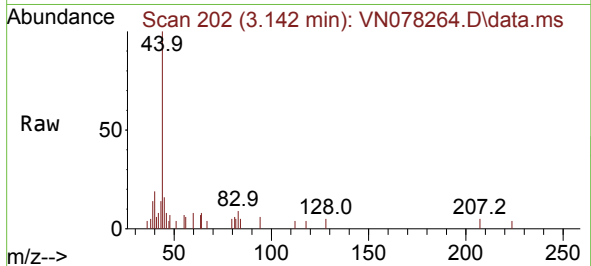




#6
Chloroethane
Concen: 0.208 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.018 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

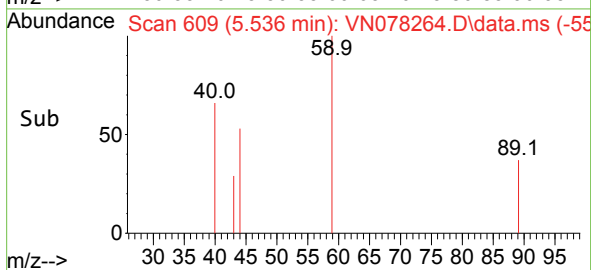
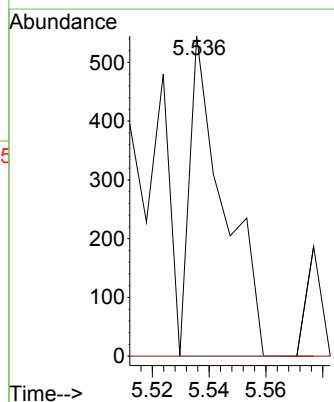
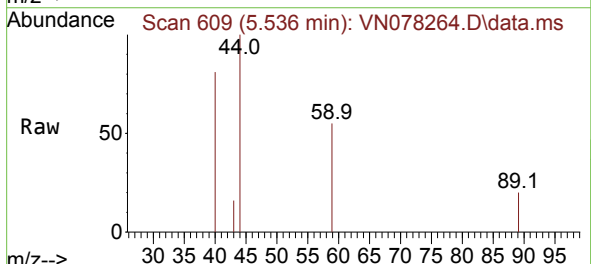
Instrument :
MSVOA_N
ClientSampleId :
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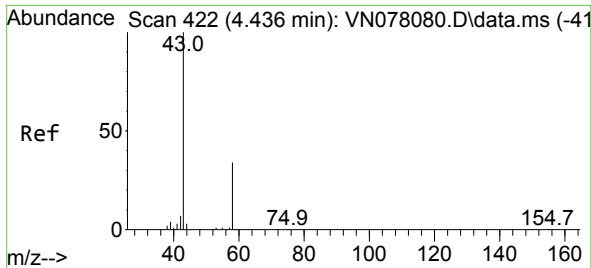
Tgt Ion: 64 Resp: 926
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.564 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion: 59 Resp: 457
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

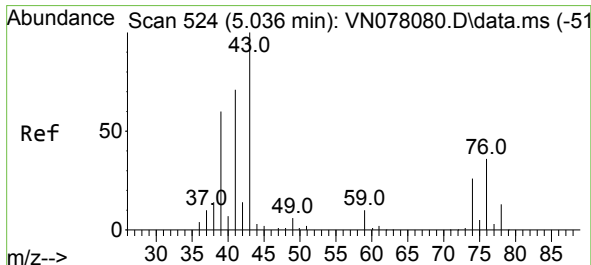
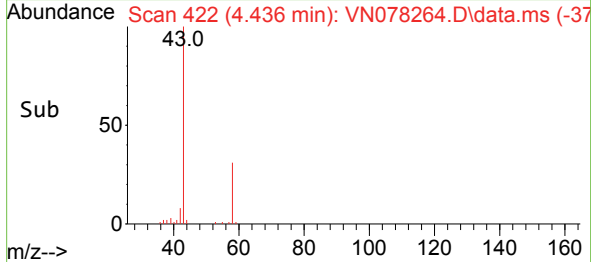
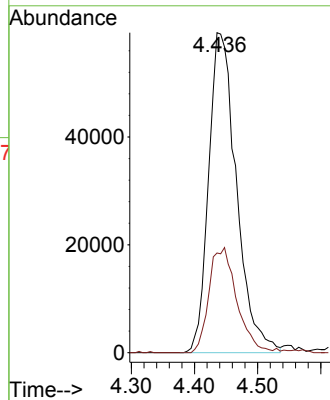
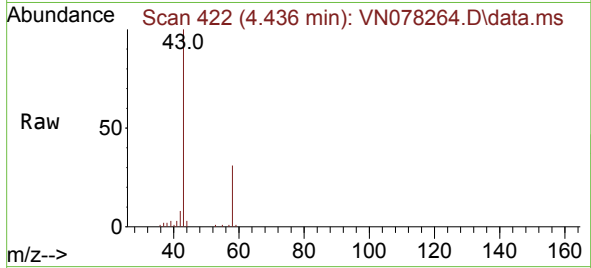




#16
Acetone
Concen: 107.368 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

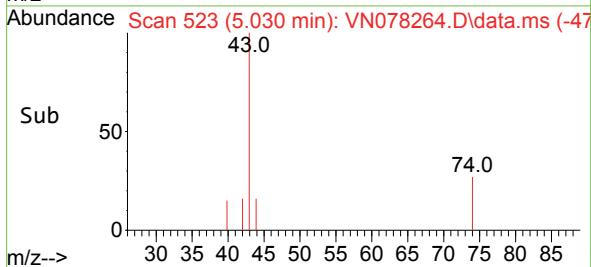
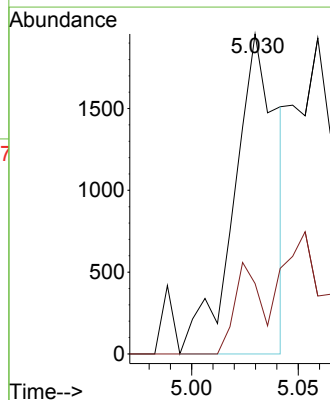
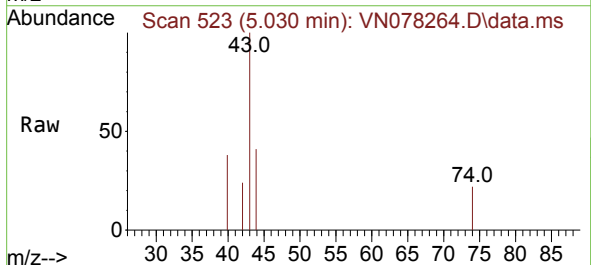
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL2-0615

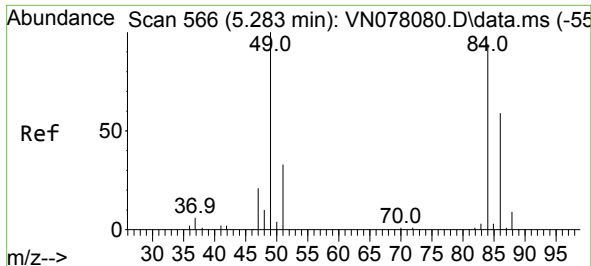
Tgt Ion: 43 Resp: 181445
Ion Ratio Lower Upper
43 100
58 31.1 28.0 42.0



#18
Methyl Acetate
Concen: 0.354 ug/l
RT: 5.030 min Scan# 523
Delta R.T. -0.006 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

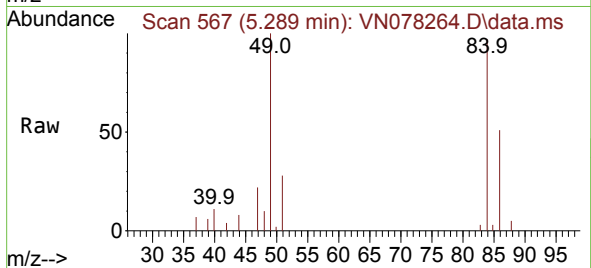
Tgt Ion: 43 Resp: 2757
Ion Ratio Lower Upper
43 100
74 17.0 26.2 39.4#



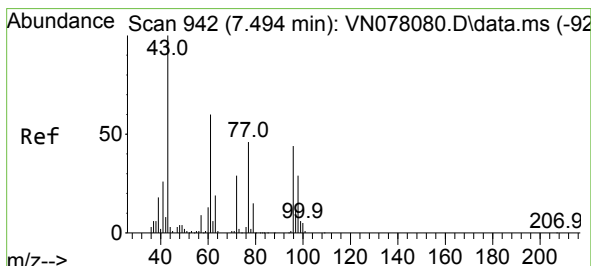
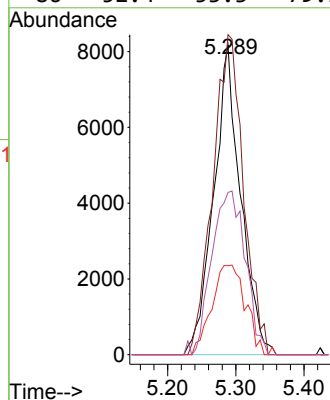
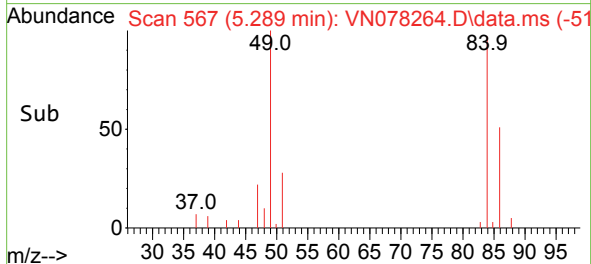


#20
Methylene Chloride
Concen: 4.028 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL2-0615

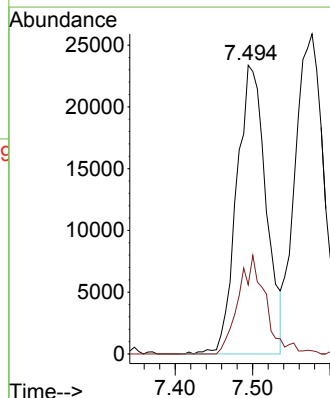
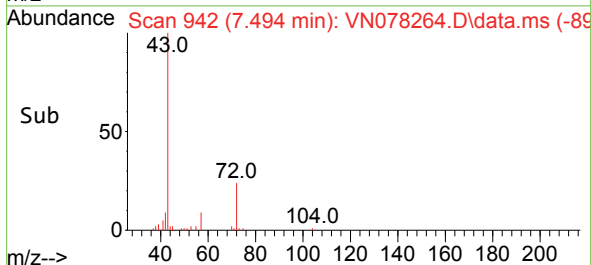
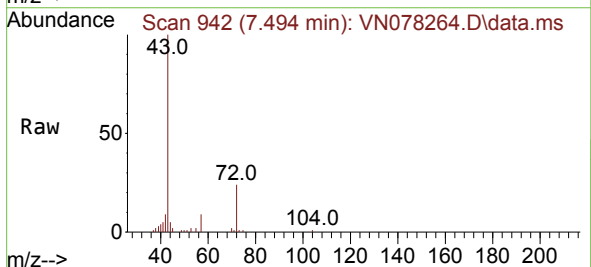


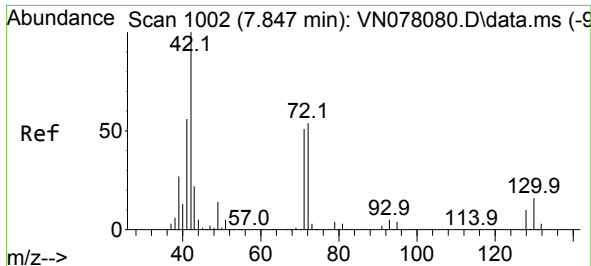
Tgt Ion:	84	Resp:	22496
Ion	Ratio	Lower	Upper
84	100		
49	103.4	79.7	119.5
51	28.8	25.2	37.8
86	52.4	53.3	79.9#



#25
2-Butanone
Concen: 23.691 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion:	43	Resp:	61566
Ion	Ratio	Lower	Upper
43	100		
72	24.0	30.2	45.2#

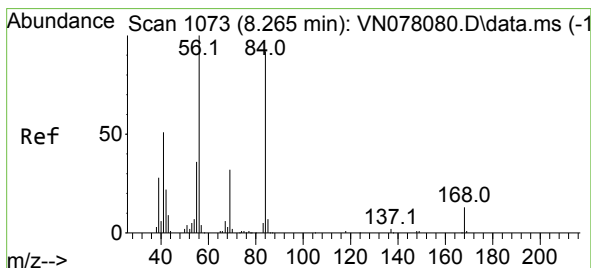
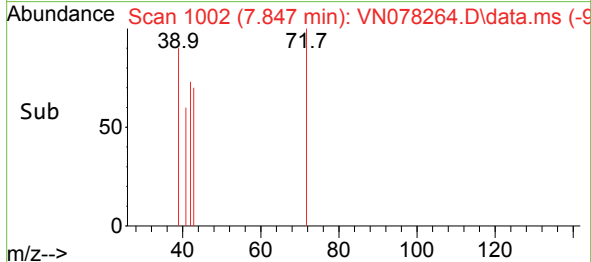
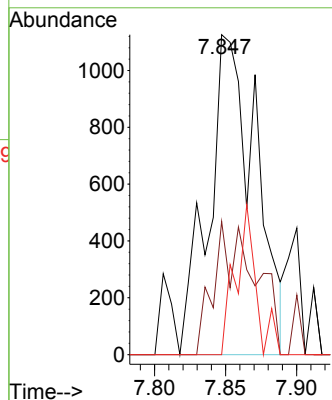
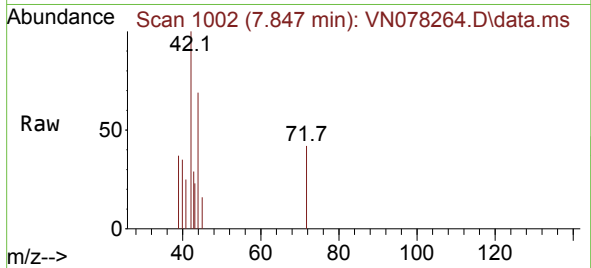




#29
Tetrahydrofuran
Concen: 1.496 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

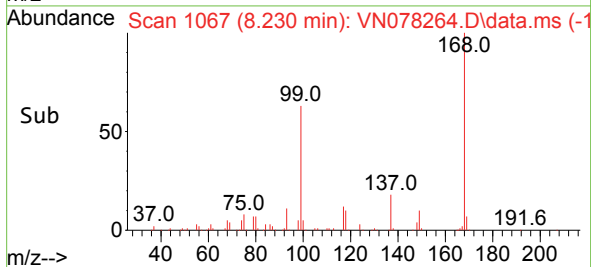
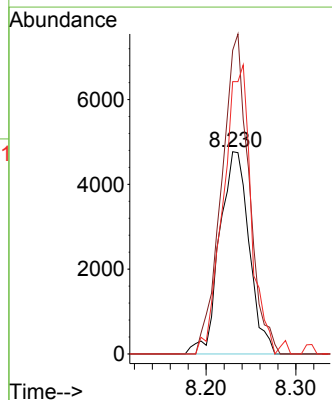
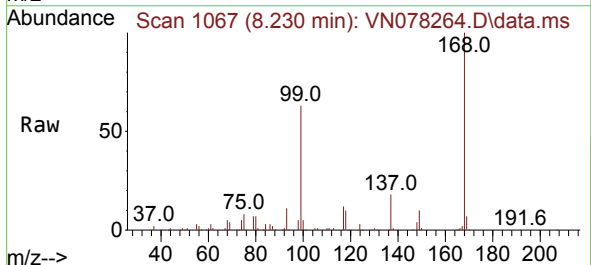
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MSVOA_N
ClientSampleId :
WS-SOIL2-0615

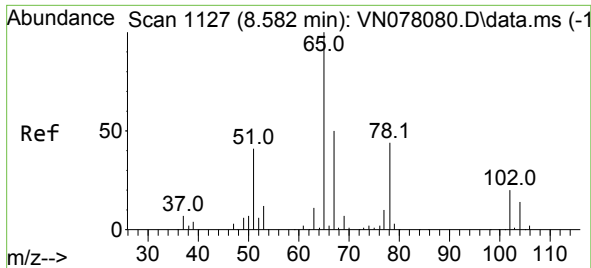
Tgt Ion: 42 Resp: 2599
Ion Ratio Lower Upper
42 100
72 15.0 49.8 74.6#
71 20.3 47.4 71.2#



#31
Cyclohexane
Concen: 1.443 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion: 56 Resp: 10866
Ion Ratio Lower Upper
56 100
69 150.2 26.8 40.2#
84 134.6 81.8 122.6#

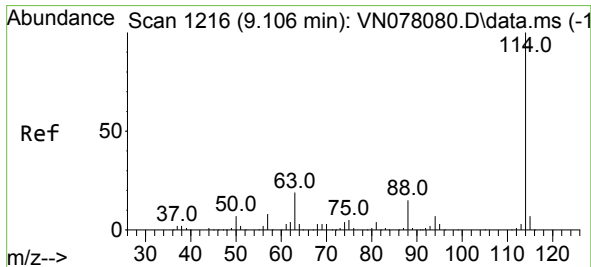
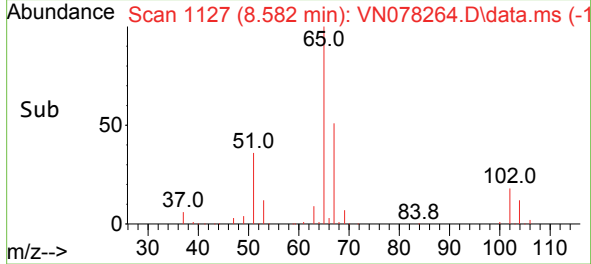
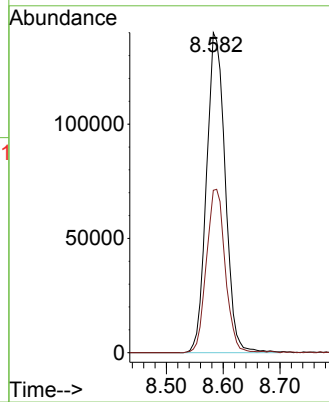
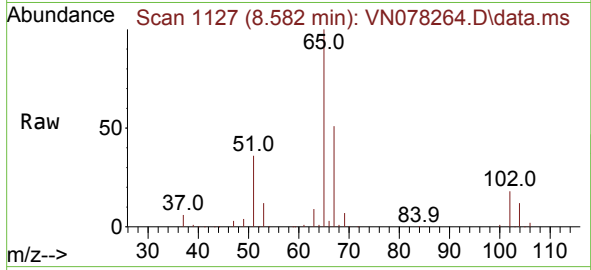




#33
1,2-Dichloroethane-d4
Concen: 54.415 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

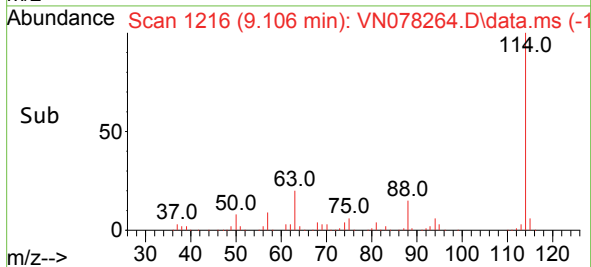
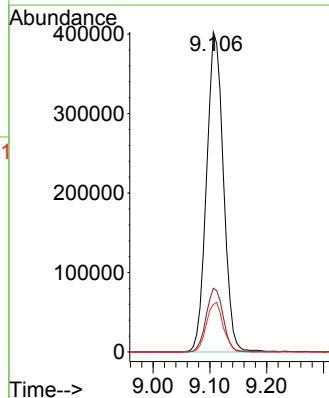
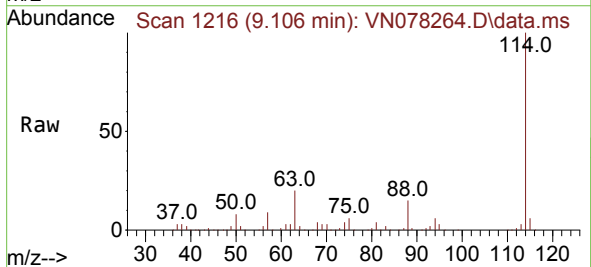
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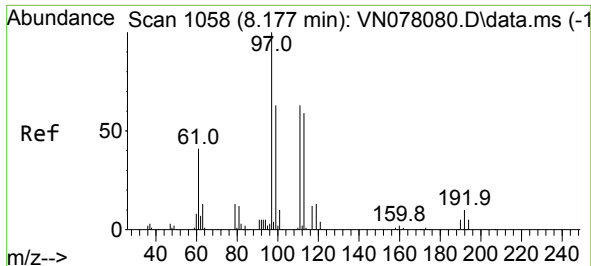
Tgt Ion: 65 Resp: 319478
Ion Ratio Lower Upper
65 100
67 51.5 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion: 114 Resp: 827883
Ion Ratio Lower Upper
114 100
63 19.9 0.0 36.4
88 14.8 0.0 30.6

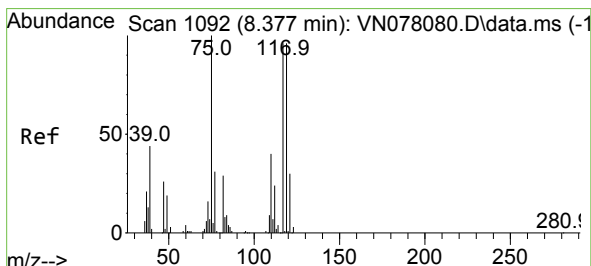
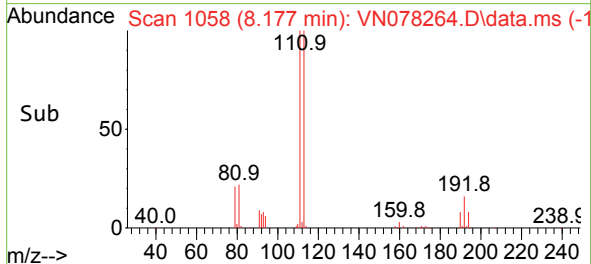
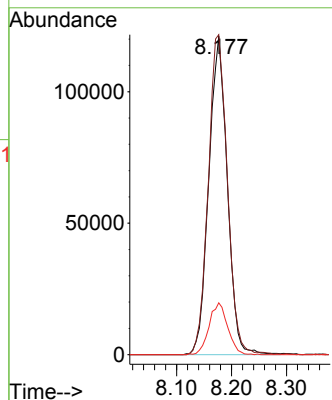
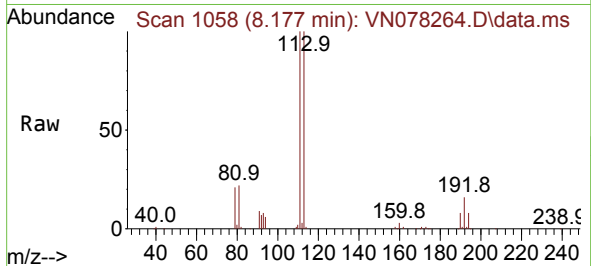




#35
Dibromofluoromethane
Concen: 54.086 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

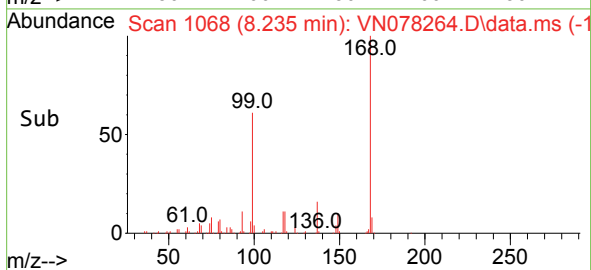
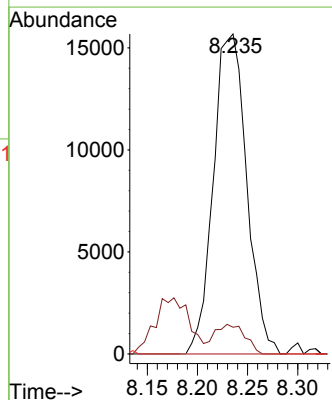
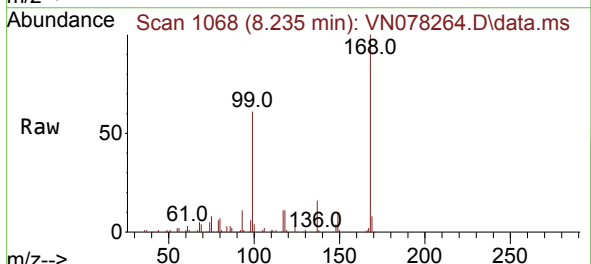
Instrument :
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WS-SOIL2-0615

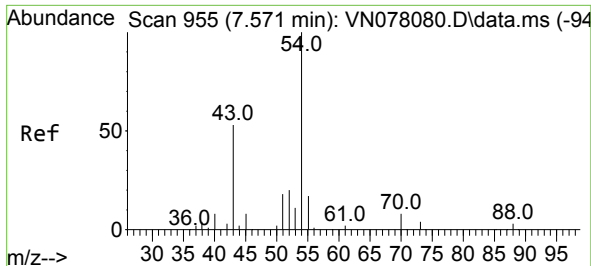
Tgt Ion:113 Resp: 283120
Ion Ratio Lower Upper
113 100
111 103.9 82.6 123.8
192 16.4 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.830 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion: 75 Resp: 36269
Ion Ratio Lower Upper
75 100
110 8.5 19.1 57.3#
77 0.0 25.0 37.4#

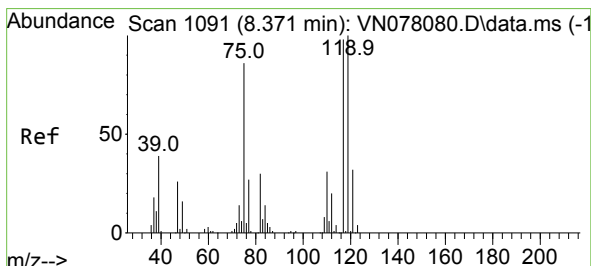
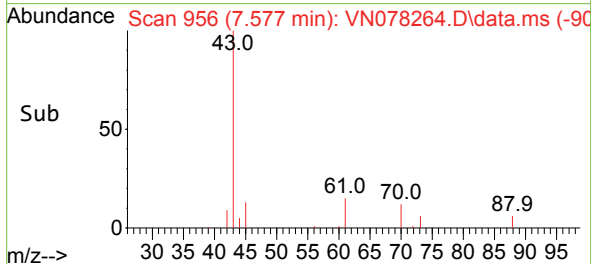
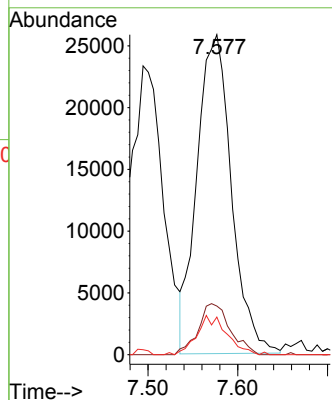
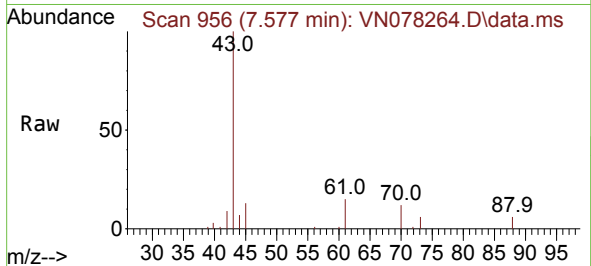




#37
Ethyl Acetate
Concen: 11.743 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

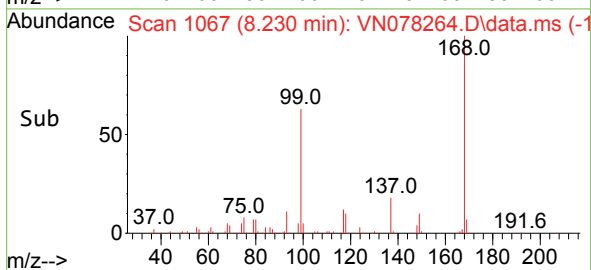
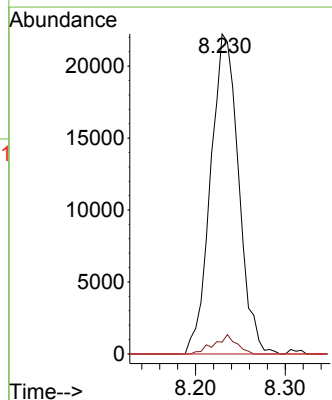
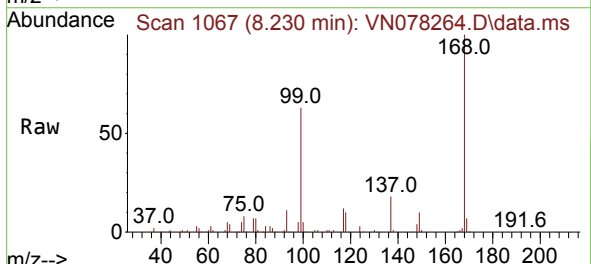
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL2-0615

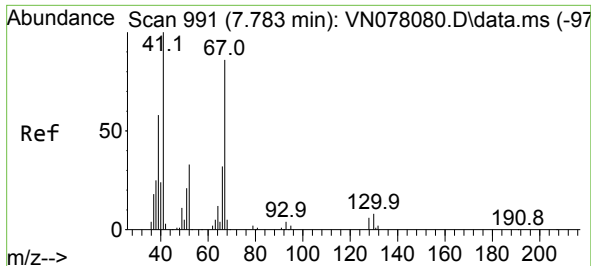
Tgt Ion: 43 Resp: 68880
Ion Ratio Lower Upper
43 100
61 14.8 13.2 19.8
70 10.6 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 6.077 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion: 117 Resp: 48183
Ion Ratio Lower Upper
117 100
119 3.7 77.3 115.9#
121 0.0 23.3 34.9#

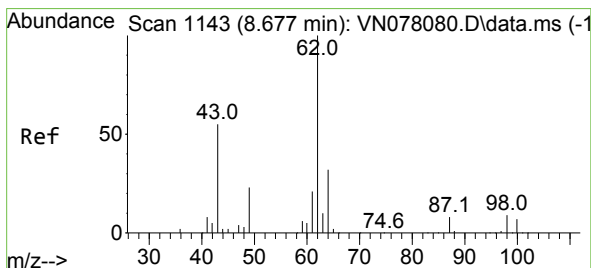
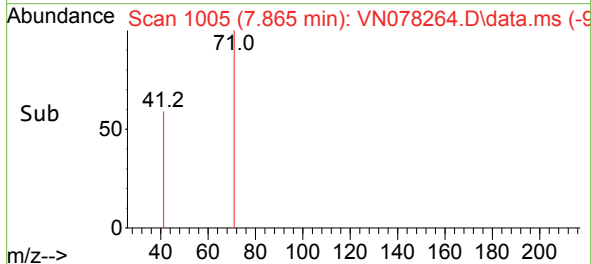
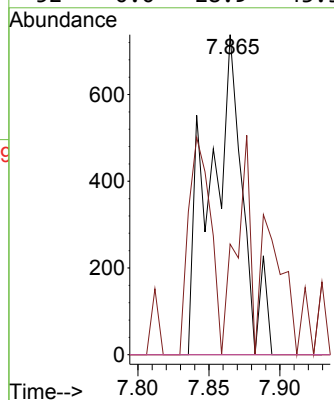
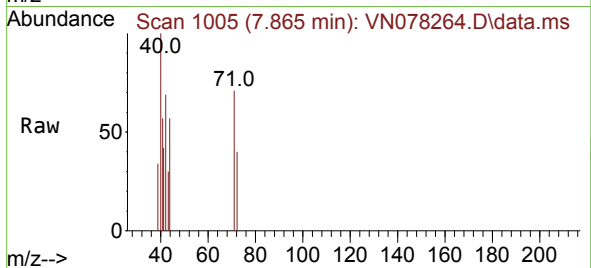




#41
Methacrylonitrile
Concen: 0.374 ug/l
RT: 7.865 min Scan# 1105
Delta R.T. 0.082 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

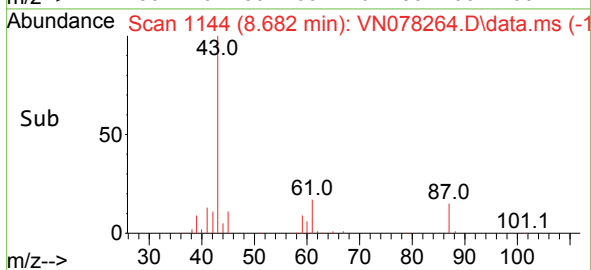
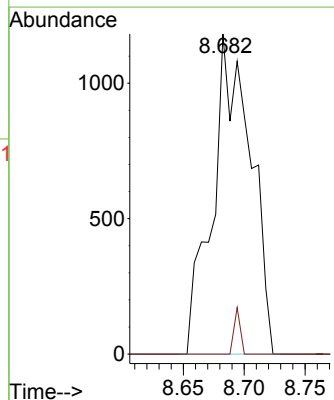
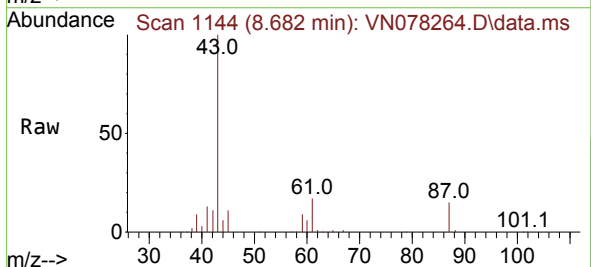
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MSVOA_N
ClientSampleId :
WS-SOIL2-0615

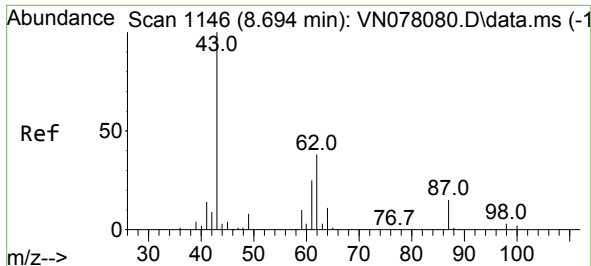
Tgt Ion:	41	Resp:	1190
Ion	Ratio	Lower	Upper
41	100		
39	29.2	42.6	64.0#
67	0.0	77.5	116.3#
52	0.0	28.9	43.3#



#42
1,2-Dichloroethane
Concen: 0.336 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion:	62	Resp:	2580
Ion	Ratio	Lower	Upper
62	100		
98	2.4	0.0	19.8

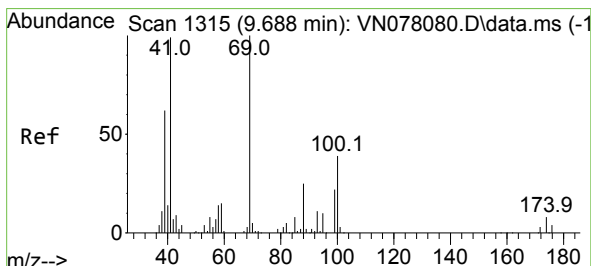
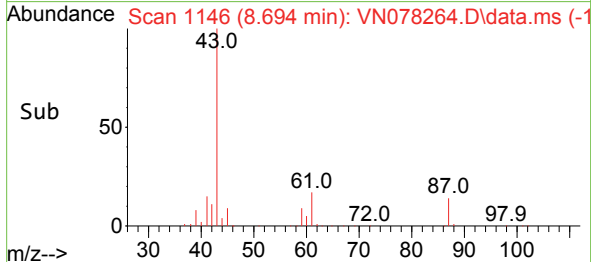
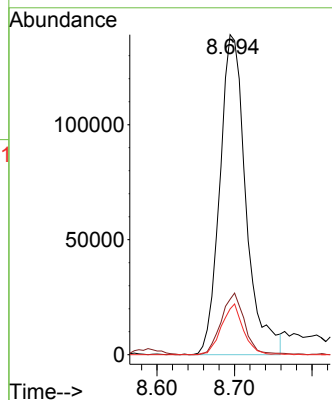
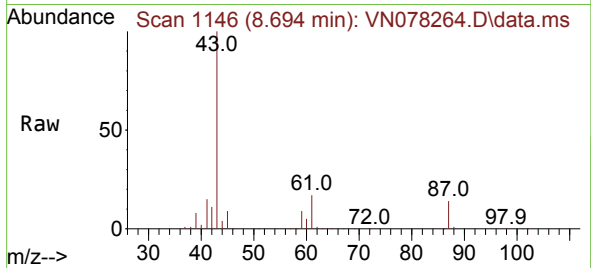




#43
Isopropyl Acetate
Concen: 29.052 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

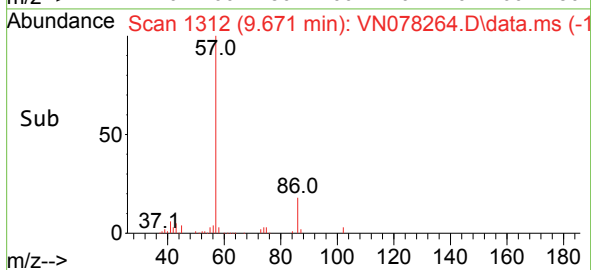
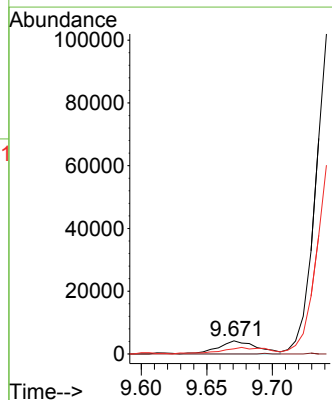
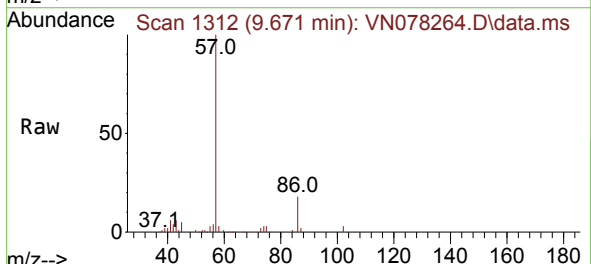
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL2-0615

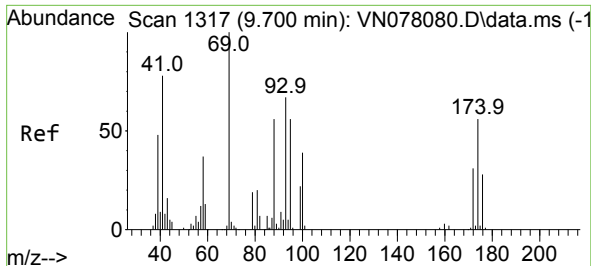
Tgt Ion: 43 Resp: 325900
Ion Ratio Lower Upper
43 100
61 17.3 24.7 37.1#
87 13.3 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.829 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion: 41 Resp: 8610
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 60.2 54.6 81.8





#49

1,4-Dioxane

Concen: 3.406 ug/l

RT: 9.747 min Scan# 1317

Delta R.T. 0.047 min

Lab File: VN078264.D

Acq: 16 Jun 2023 16:53

Instrument :

MSVOA_N

ClientSampleId :

WS-SOIL2-0615

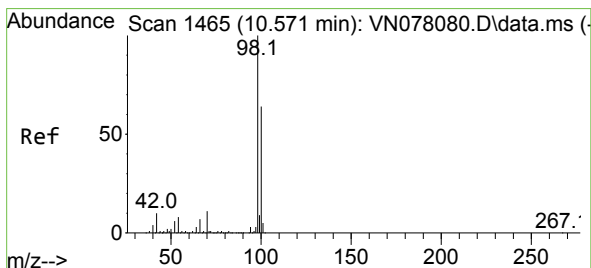
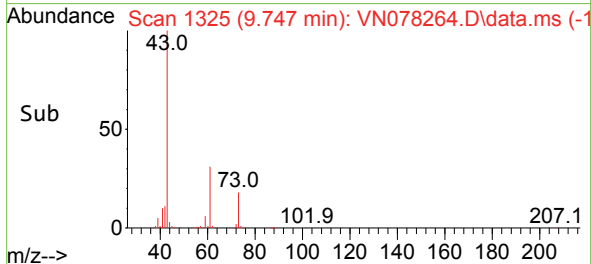
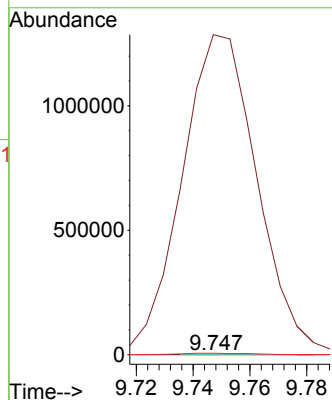
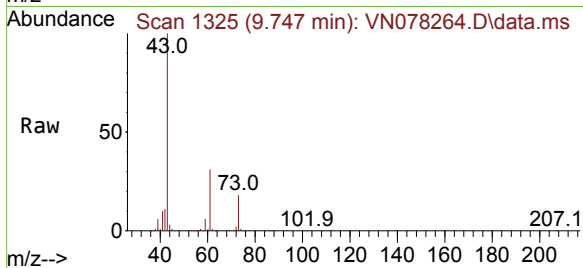
Tgt Ion: 88 Resp: 337

Ion Ratio Lower Upper

88 100

43 710549.9 17.0 25.6#

58 3501.2 47.0 70.4#



#50

Toluene-d8

Concen: 50.645 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VN078264.D

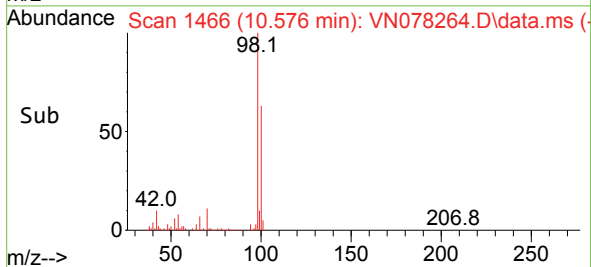
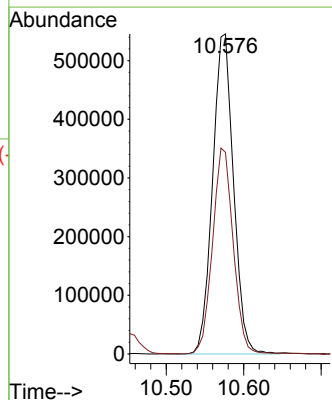
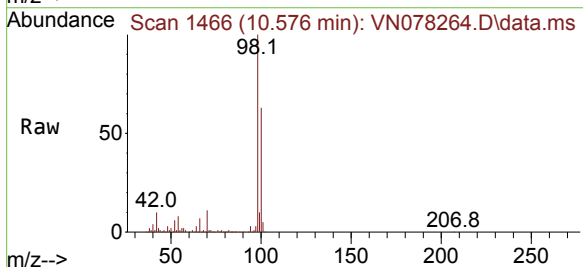
Acq: 16 Jun 2023 16:53

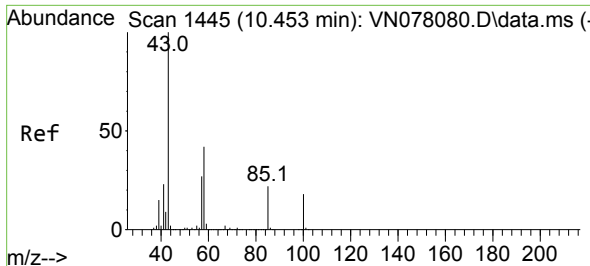
Tgt Ion: 98 Resp: 1022019

Ion Ratio Lower Upper

98 100

100 63.7 52.0 78.0

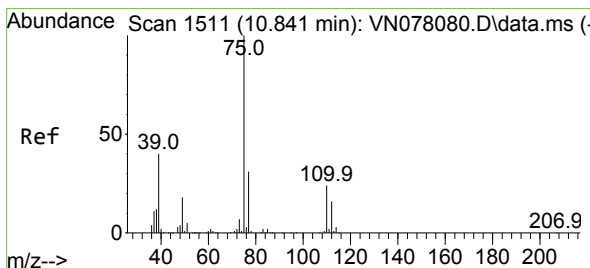
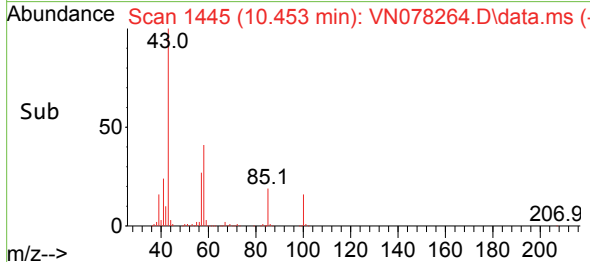
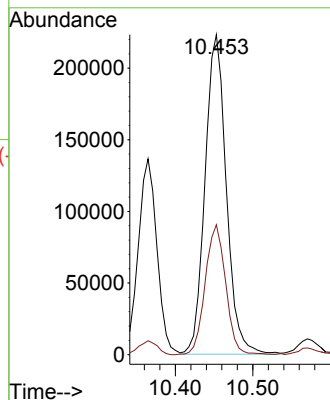
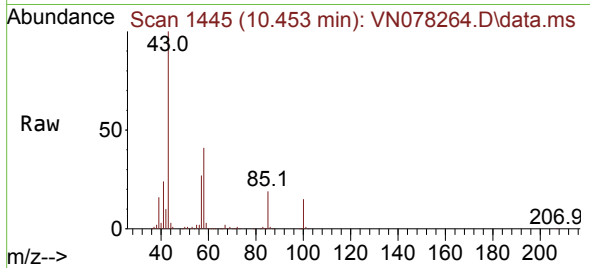




#51
4-Methyl-2-Pentanone
Concen: 72.197 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

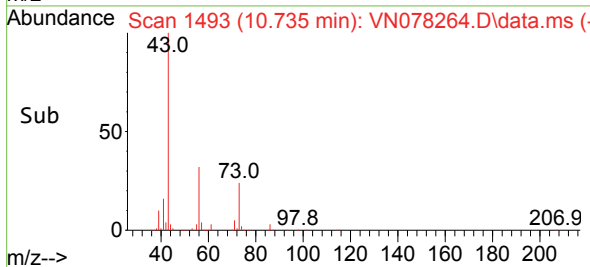
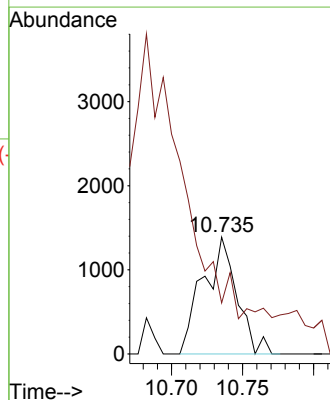
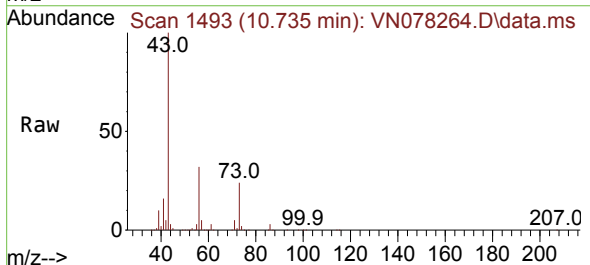
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL2-0615

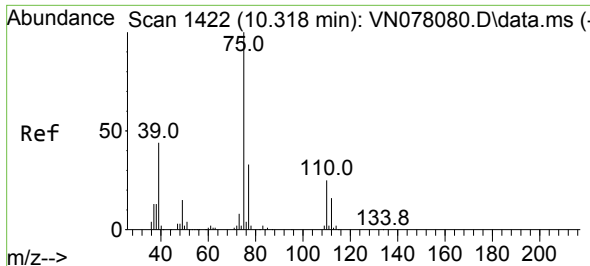
Tgt Ion: 43 Resp: 426472
Ion Ratio Lower Upper
43 100
58 39.1 36.6 54.8



#53
t-1,3-Dichloropropene
Concen: 0.291 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.106 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion: 75 Resp: 2309
Ion Ratio Lower Upper
75 100
77 10.2 25.4 38.0#

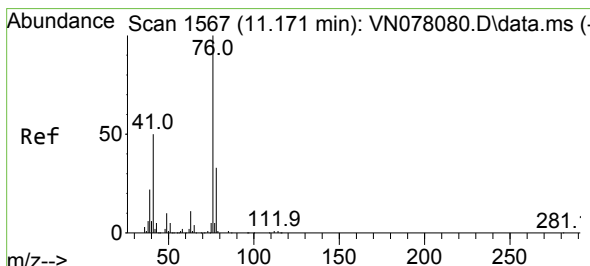
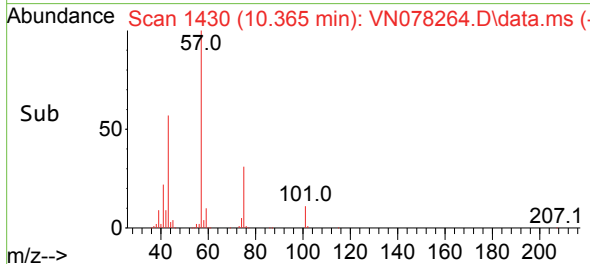
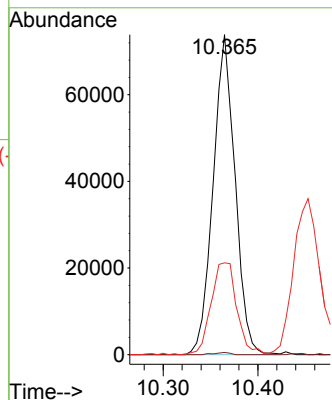
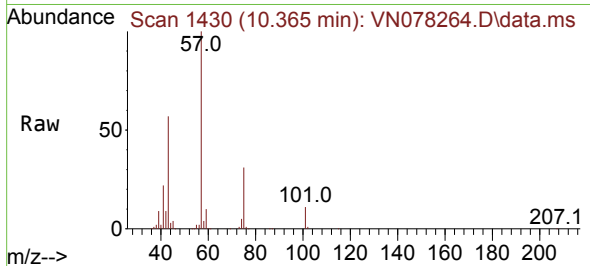




#54
 cis-1,3-Dichloropropene
 Concen: 13.521 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078264.D
 Acq: 16 Jun 2023 16:53

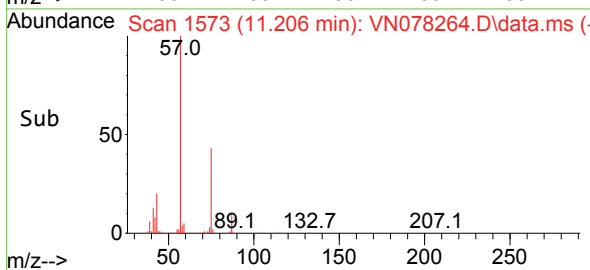
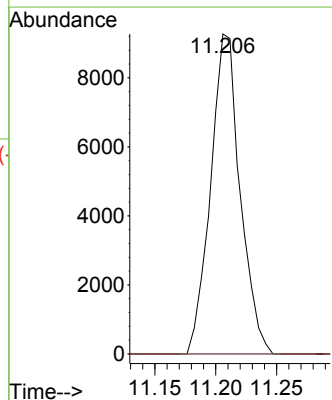
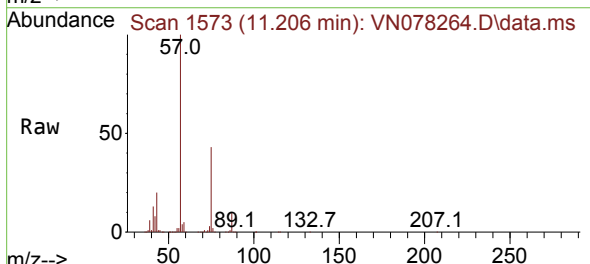
Instrument :
 MSVOA_N
 ClientSampleId :
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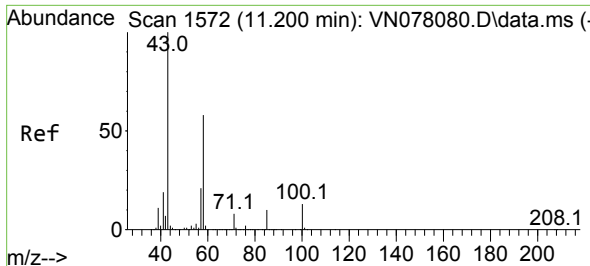
Tgt Ion: 75 Resp: 118771
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 28.7 31.6 47.4#



#57
 1,3-Dichloropropane
 Concen: 1.733 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.035 min
 Lab File: VN078264.D
 Acq: 16 Jun 2023 16:53

Tgt Ion: 76 Resp: 15660
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

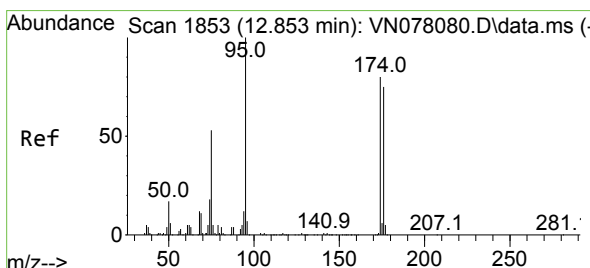
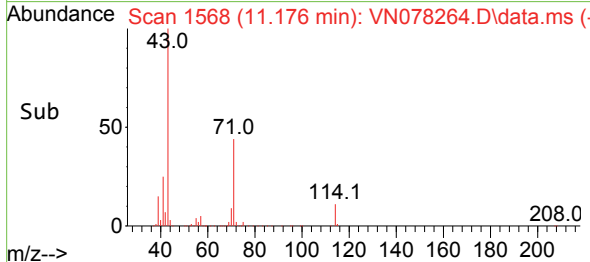
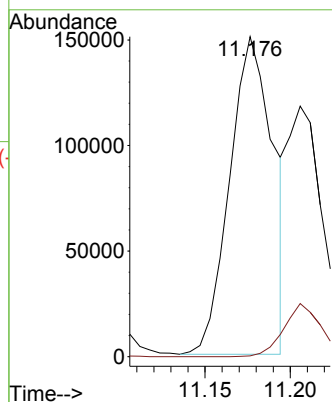
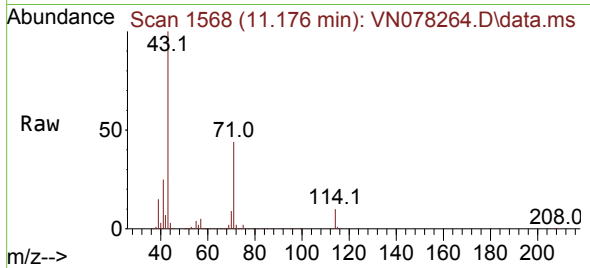




#59
2-Hexanone
Concen: 64.975 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.024 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

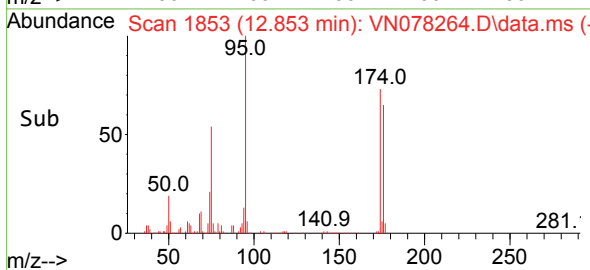
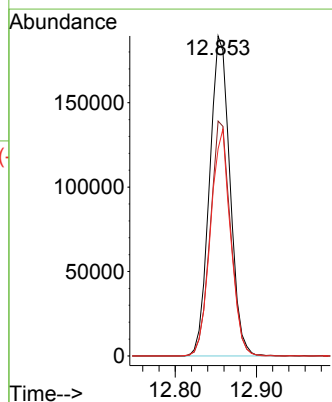
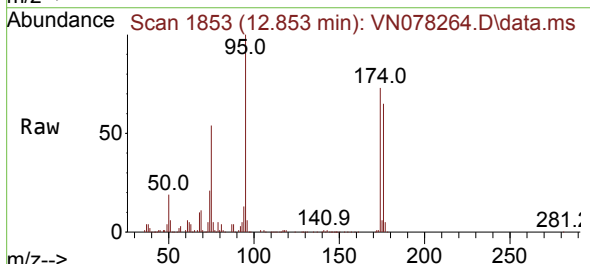
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MSVOA_N
ClientSampleId :
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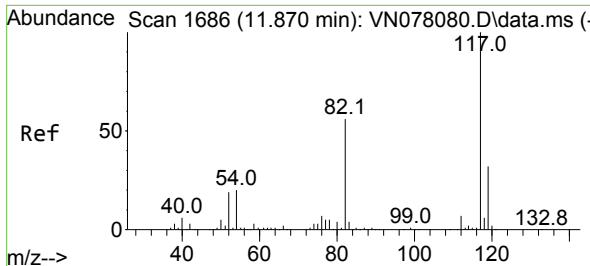
Tgt Ion: 43 Resp: 267247
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.692 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion: 95 Resp: 330559
Ion Ratio Lower Upper
95 100
174 73.4 0.0 143.8
176 69.7 0.0 135.8

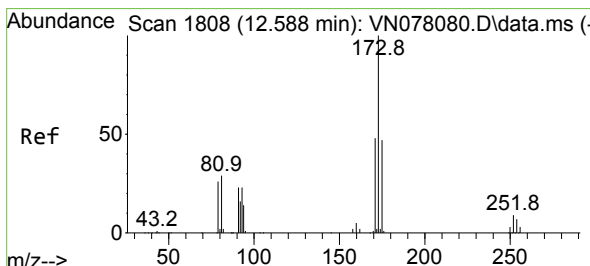
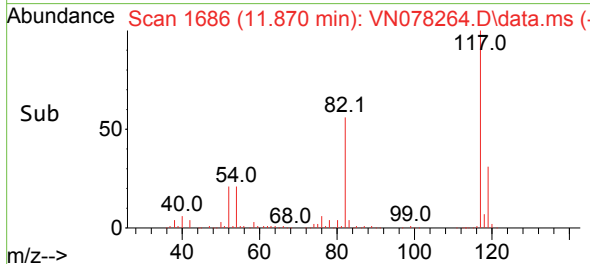
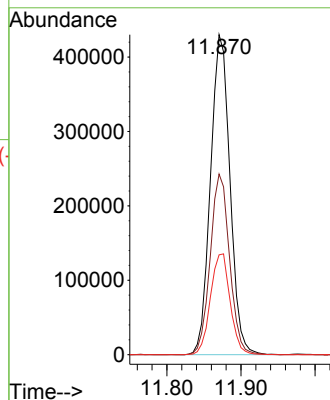
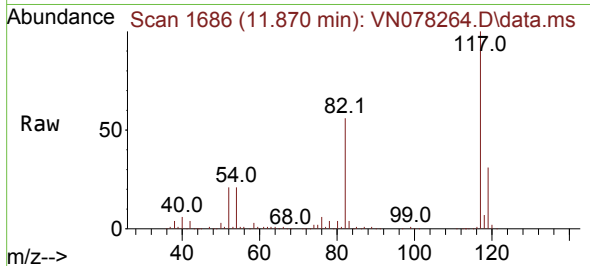




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

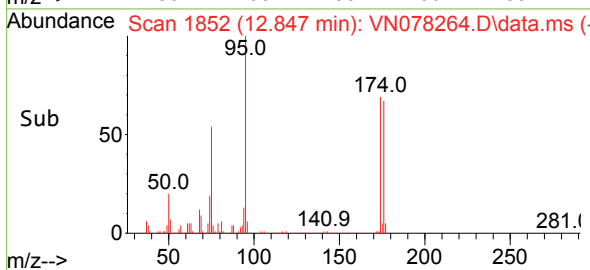
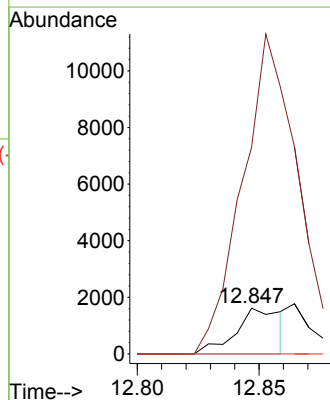
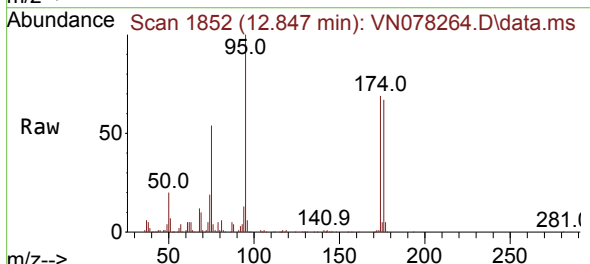
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MSVOA_N
ClientSampleId :
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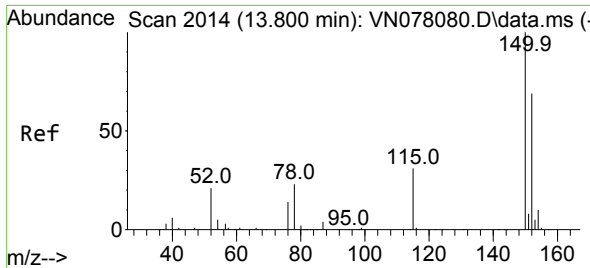
Tgt Ion:117 Resp: 785089
Ion Ratio Lower Upper
117 100
82 56.5 44.0 66.0
119 31.2 25.6 38.4



#71
Bromoform
Concen: 0.525 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.259 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion:173 Resp: 2095
Ion Ratio Lower Upper
173 100
175 741.8 24.3 73.0#
254 0.0 0.0 0.0

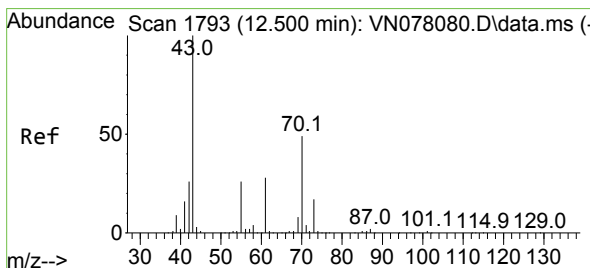
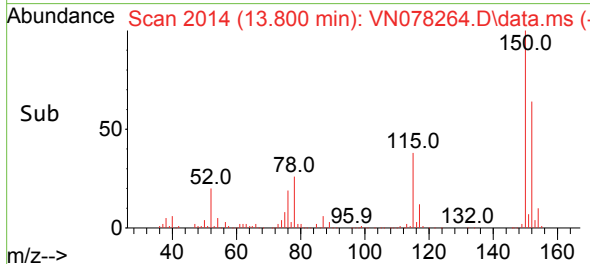
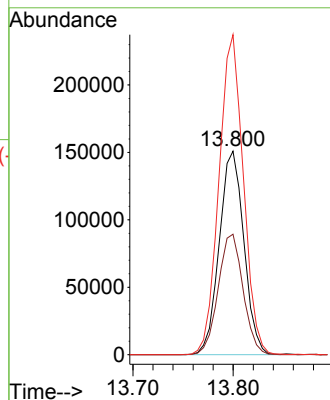
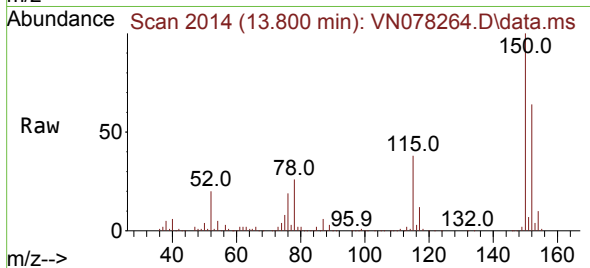




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.000 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

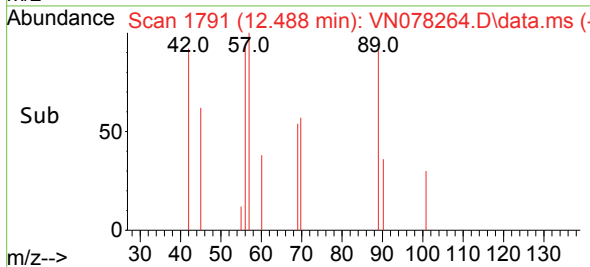
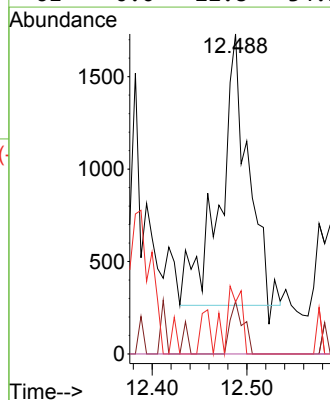
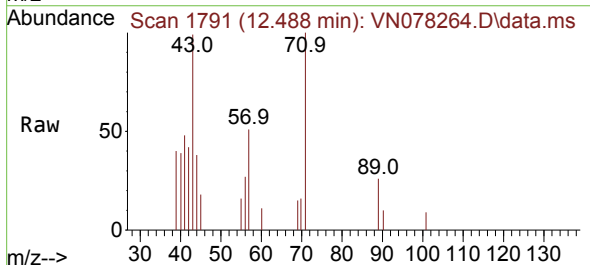
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL2-0615

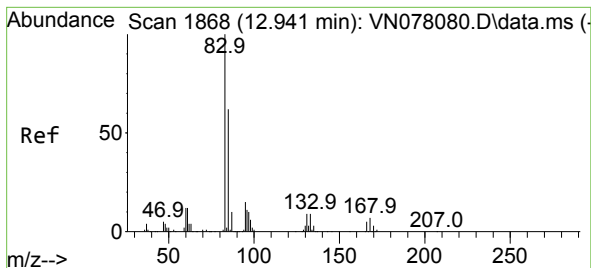
Tgt Ion:152 Resp: 256969
Ion Ratio Lower Upper
152 100
115 59.9 32.3 96.8
150 156.0 0.0 355.8



#74
N-ethyl acetate
Concen: 0.382 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN078264.D
Acq: 16 Jun 2023 16:53

Tgt Ion: 43 Resp: 3059
Ion Ratio Lower Upper
43 100
70 9.2 43.4 65.2#
55 14.0 21.4 32.0#
61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1868

Delta R.T. 0.006 min

Lab File: VN078264.D

Acq: 16 Jun 2023 16:53

Instrument :

MSVOA_N

ClientSampleId :

WS-SOIL2-0615

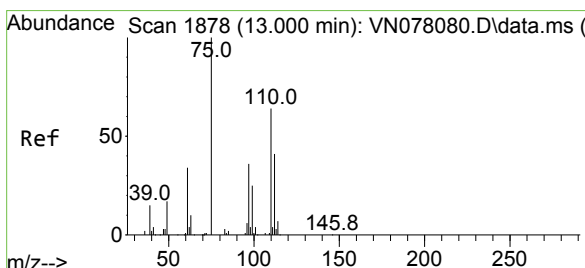
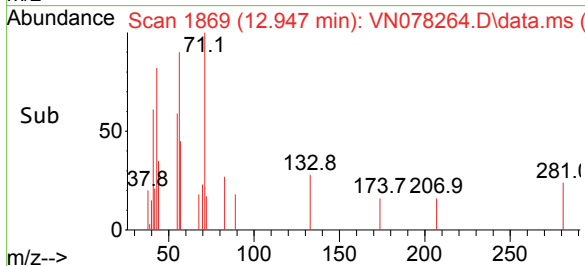
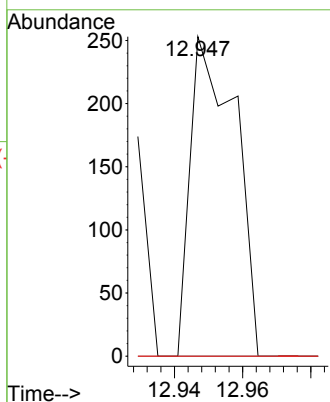
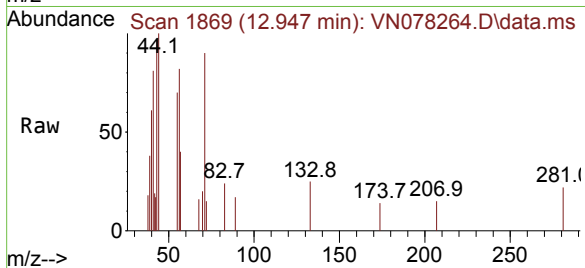
Tgt Ion: 83 Resp: 232

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 29.031 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078264.D

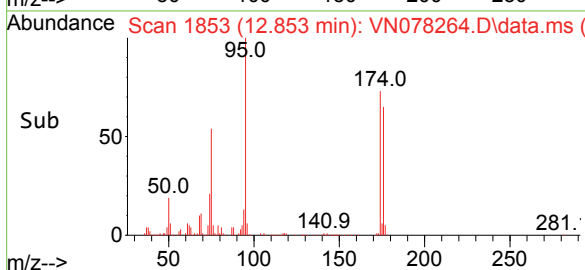
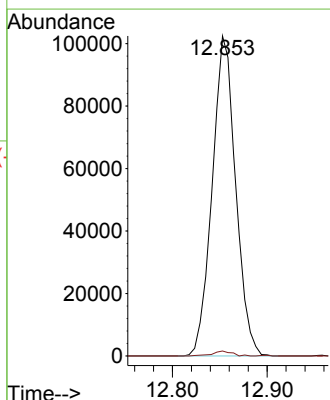
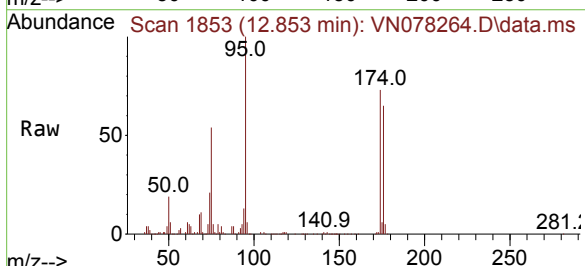
Acq: 16 Jun 2023 16:53

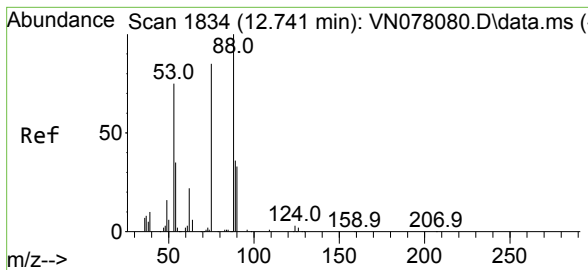
Tgt Ion: 75 Resp: 176357

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 89.192 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078264.D
 Acq: 16 Jun 2023 16:53

Instrument :
 MSVOA_N
 ClientSampleId :
 WS-SOIL2-0615

Tgt Ion: 75 Resp: 176357
 Ion Ratio Lower Upper
 75 100
 53 0.3 67.4 101.2#
 89 0.0 38.8 58.2#

