

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032823\
 Data File : VN077239.D
 Acq On : 28 Mar 2023 16:06
 Operator : JC\MD
 Sample : 02105-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WV-SOIL2-0327

Quant Time: Mar 29 01:16:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032523W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 27 02:47:06 2023
 Response via : Initial Calibration

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

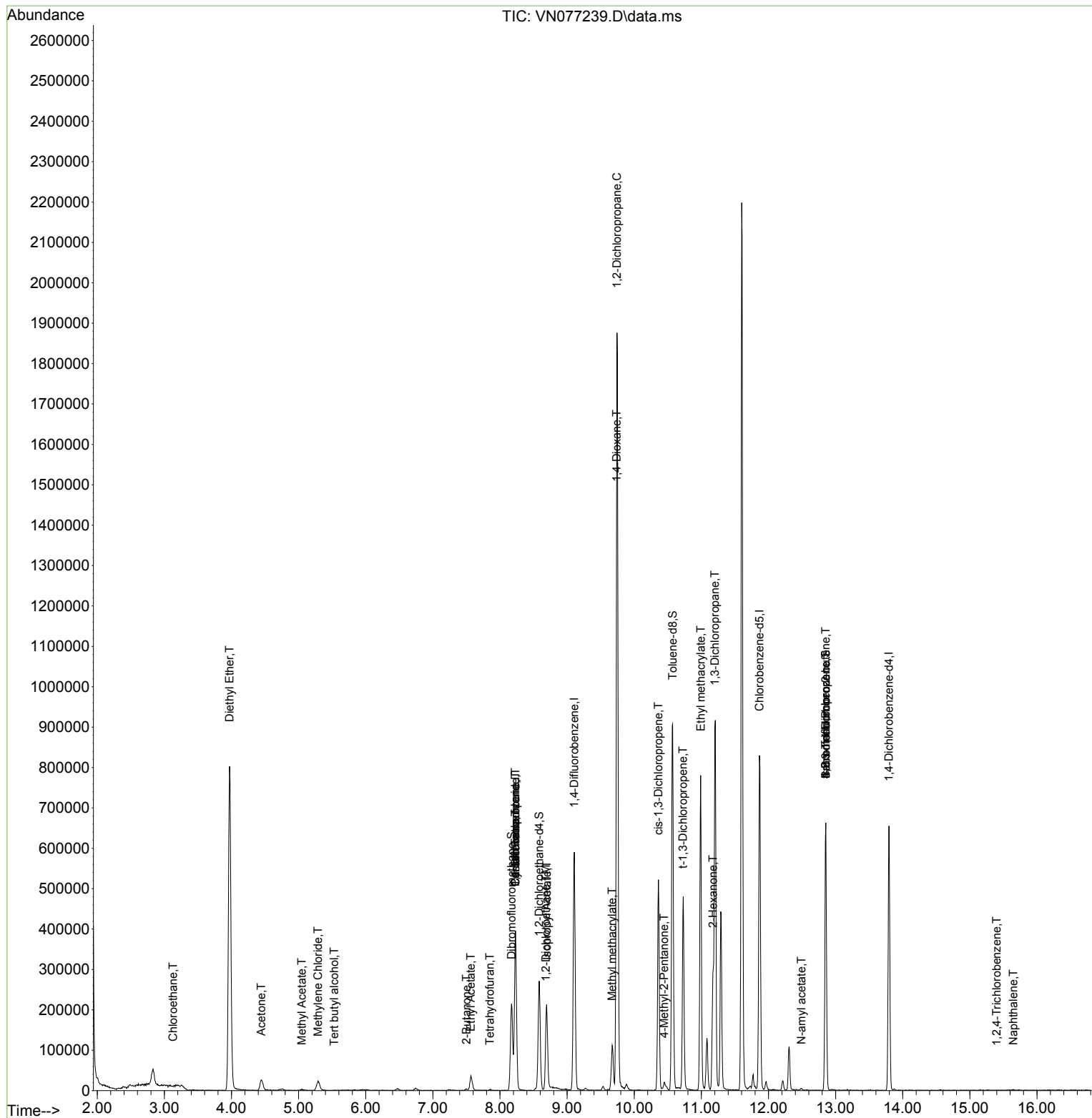
Internal Standards						
1) Pentafluorobenzene	8.231	168	262798	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	461333	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	437034	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	155899	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	208168	50.662	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.320%			
35) Dibromofluoromethane	8.172	113	143486	45.837	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.680%			
50) Toluene-d8	10.572	98	591480	50.426	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.860%			
62) 4-Bromofluorobenzene	12.854	95	195566	50.802	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.600%			
Target Compounds					Qvalue	
6) Chloroethane	3.131	64	1315	0.349	ug/l #	74
8) Diethyl Ether	3.972	74	454623	207.362	ug/l	62
11) Tert butyl alcohol	5.531	59	182	0.325	ug/l #	72
16) Acetone	4.443	43	53680	35.135	ug/l #	71
18) Methyl Acetate	5.048	43	5088	0.832	ug/l #	65
20) Methylene Chloride	5.290	84	16939	4.979	ug/l #	78
25) 2-Butanone	7.501	43	4511	1.888	ug/l #	67
29) Tetrahydrofuran	7.848	42	1832	1.158	ug/l #	36
31) Cyclohexane	8.231	56	8359	1.464	ug/l #	41
36) 1,1-Dichloropropene	8.231	75	26252	6.026	ug/l #	47
37) Ethyl Acetate	7.566	43	54743	11.273	ug/l #	92
38) Carbon Tetrachloride	8.231	117	29226	6.616	ug/l #	16
42) 1,2-Dichloroethane	8.684	62	1634	0.325	ug/l #	71
43) Isopropyl Acetate	8.695	43	243715	31.108	ug/l #	76
45) 1,2-Dichloropropane	9.742	63	2405	0.677	ug/l #	43
48) Methyl methacrylate	9.672	41	7650	2.028	ug/l #	29
49) 1,4-Dioxane	9.736	88	83	1.290	ug/l #	30
51) 4-Methyl-2-Pentanone	10.442	43	19697	3.996	ug/l #	63
53) t-1,3-Dichloropropene	10.725	75	937	0.200	ug/l #	86
54) cis-1,3-Dichloropropene	10.360	75	80486	15.701	ug/l #	67
56) Ethyl methacrylate	10.989	69	3026	0.641	ug/l #	1
57) 1,3-Dichloropropane	11.201	76	9121	1.601	ug/l #	42
59) 2-Hexanone	11.172	43	258486	72.963	ug/l #	17
71) Bromoform	12.854	173	3347	1.405	ug/l #	28
74) N-amyl acetate	12.489	43	1816	0.340	ug/l #	37
76) 1,2,3-Trichloropropane	12.854	75	118235	37.386	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	118235	107.752	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.401	180	197	4.449	ug/l #	12
95) Naphthalene	15.648	128	812	6.001	ug/l	98

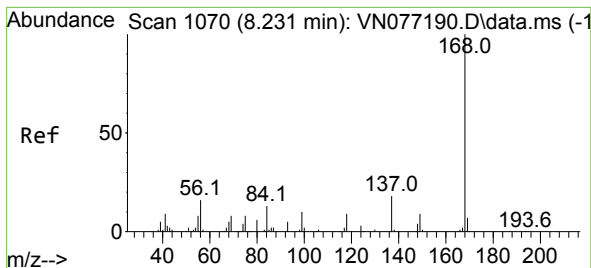
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

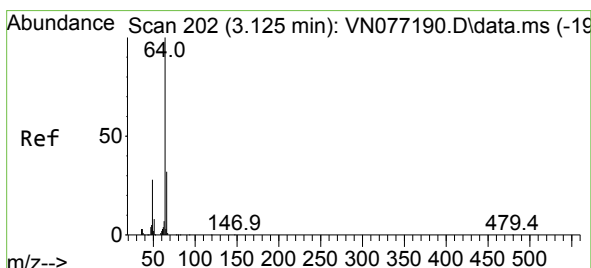
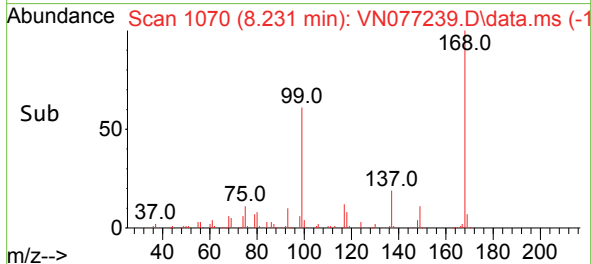
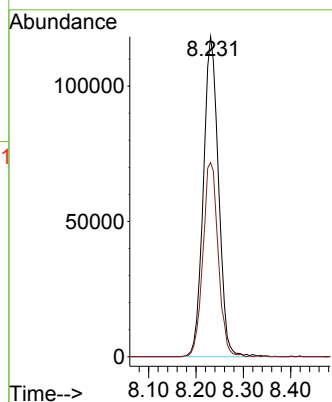
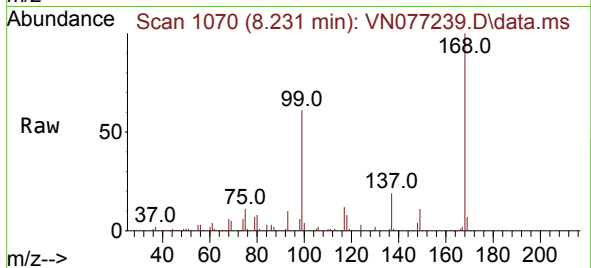
WV-SOIL2-0327

Tgt Ion:168 Resp: 262798

Ion Ratio Lower Upper

168 100

99 60.6 48.6 73.0



#6

Chloroethane

Concen: 0.349 ug/l

RT: 3.131 min Scan# 203

Delta R.T. 0.006 min

Lab File: VN077239.D

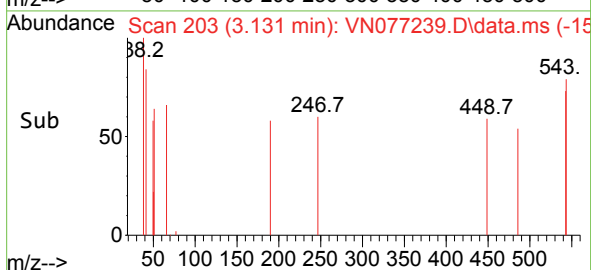
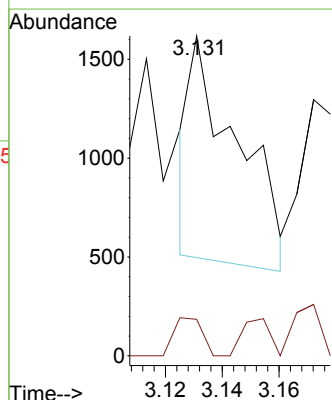
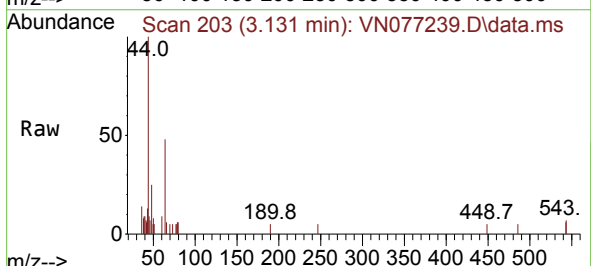
Acq: 28 Mar 2023 16:06

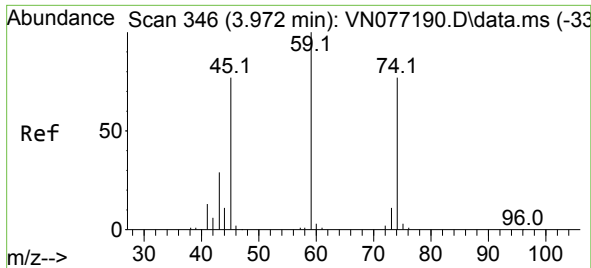
Tgt Ion: 64 Resp: 1315

Ion Ratio Lower Upper

64 100

66 18.2 26.2 39.4#





#8

Diethyl Ether

Concen: 207.362 ug/l

RT: 3.972 min Scan# 346

Delta R.T. 0.000 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

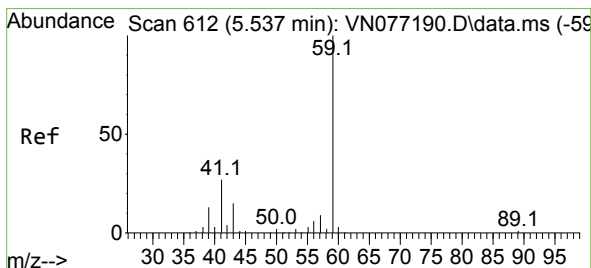
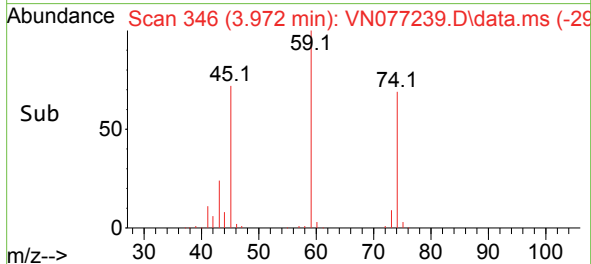
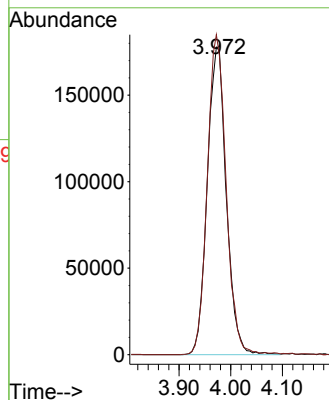
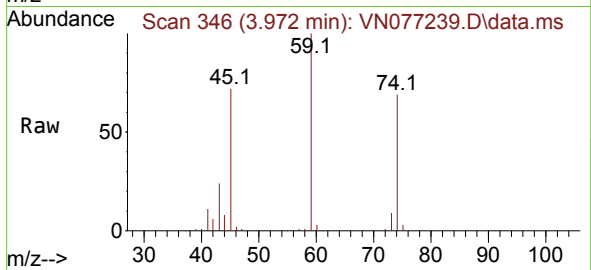
WV-SOIL2-0327

Tgt Ion: 74 Resp: 454623

Ion Ratio Lower Upper

74 100

45 102.5 35.5 106.5



#11

Tert butyl alcohol

Concen: 0.325 ug/l

RT: 5.531 min Scan# 611

Delta R.T. -0.006 min

Lab File: VN077239.D

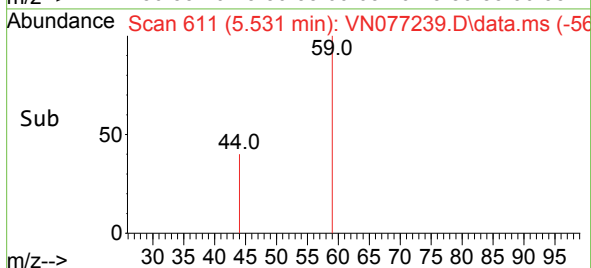
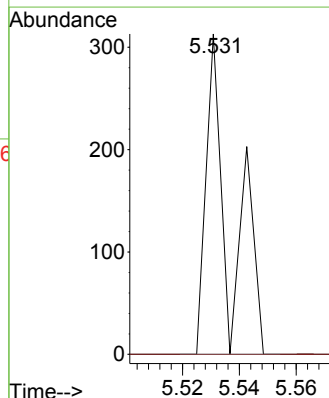
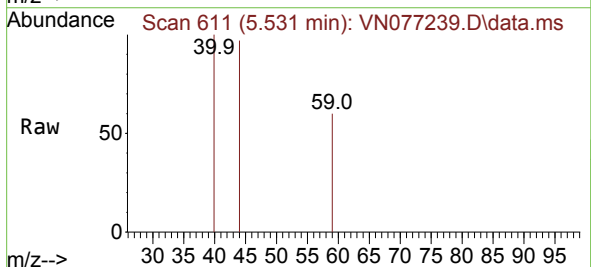
Acq: 28 Mar 2023 16:06

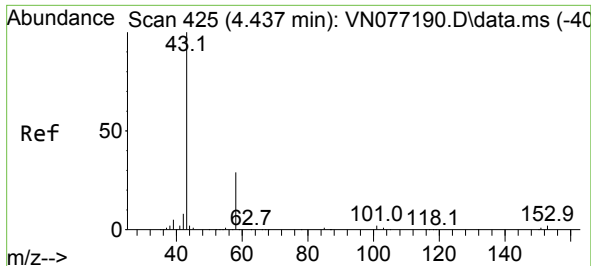
Tgt Ion: 59 Resp: 182

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#

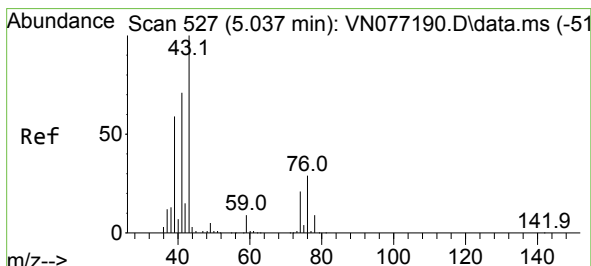
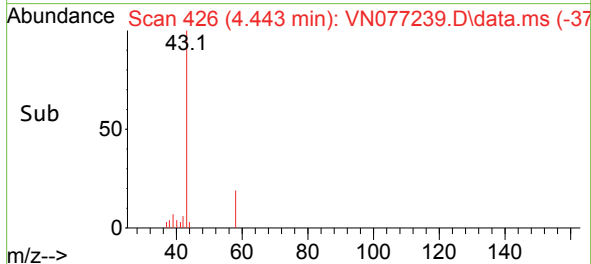
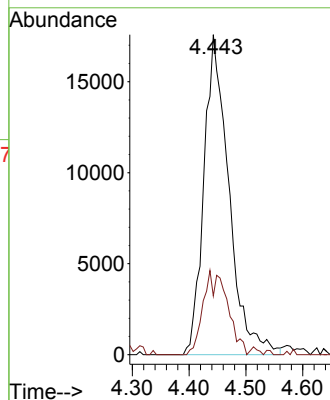
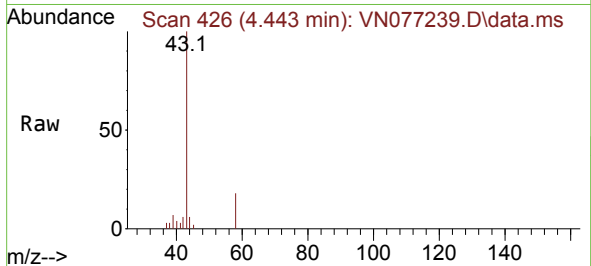




#16
Acetone
Concen: 35.135 ug/l
RT: 4.443 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

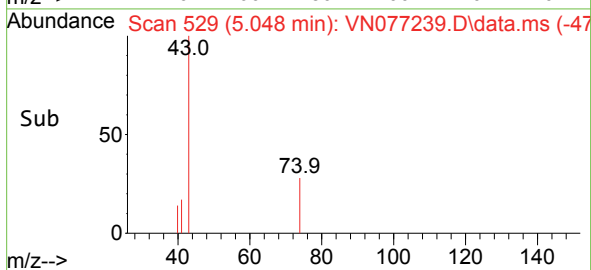
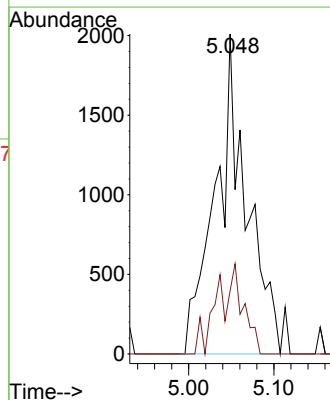
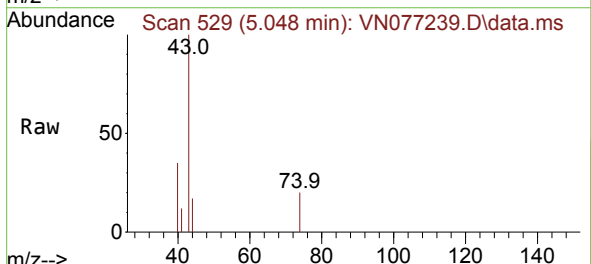
Instrument :
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WV-SOIL2-0327

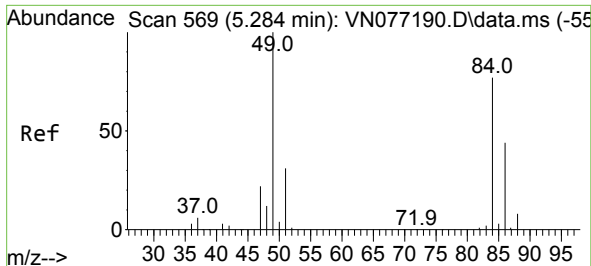
Tgt Ion: 43 Resp: 53680
Ion Ratio Lower Upper
43 100
58 18.3 28.2 42.2#



#18
Methyl Acetate
Concen: 0.832 ug/l
RT: 5.048 min Scan# 529
Delta R.T. 0.011 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

Tgt Ion: 43 Resp: 5088
Ion Ratio Lower Upper
43 100
74 12.9 25.9 38.9#

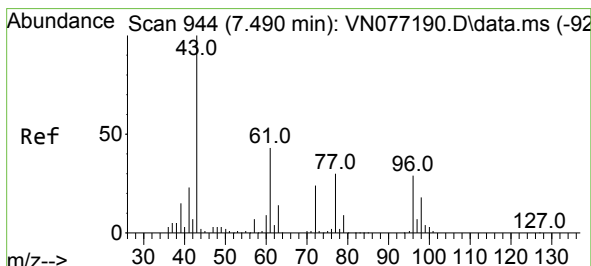
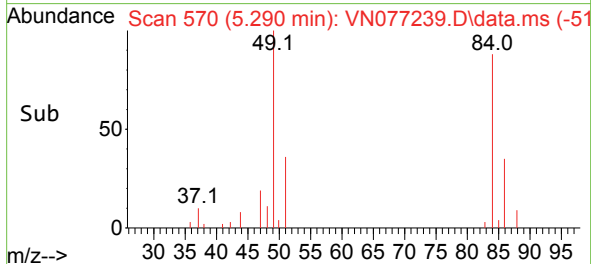
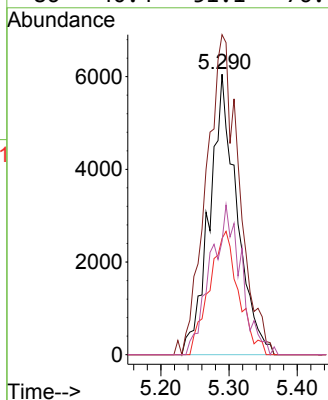
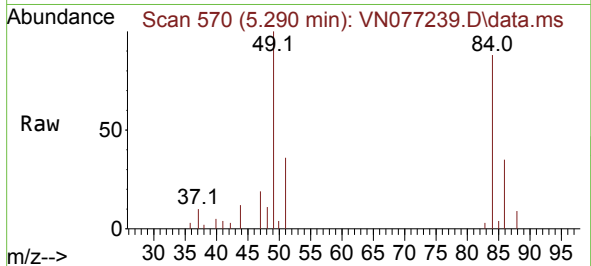




#20
Methylene Chloride
Concen: 4.979 ug/l
RT: 5.290 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

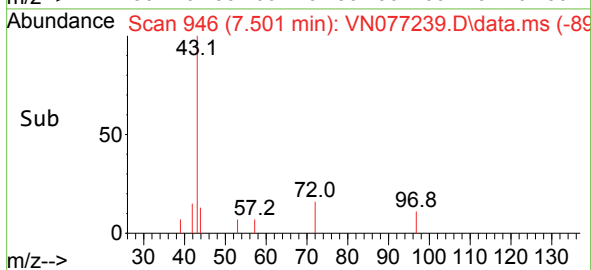
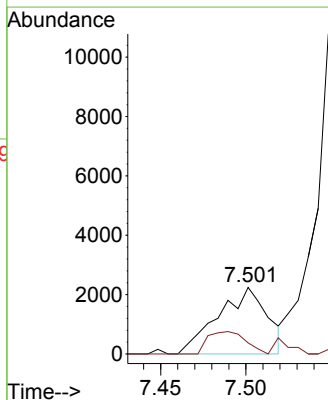
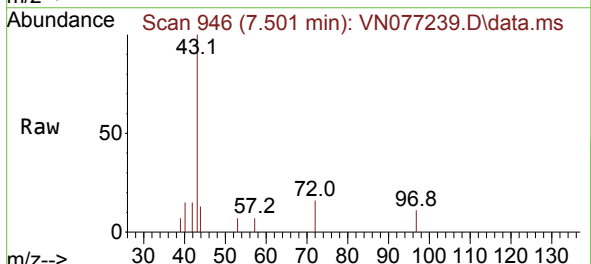
Instrument :
MSVOA_N
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WV-SOIL2-0327

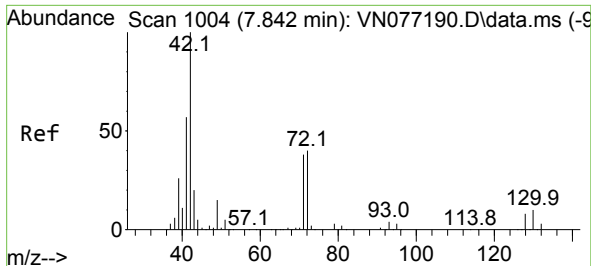
Tgt Ion:	84	Resp:	16939
Ion	Ratio	Lower	Upper
84	100		
49	114.1	76.6	114.8
51	41.4	25.4	38.2#
86	40.4	51.1	76.7#



#25
2-Butanone
Concen: 1.888 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.011 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

Tgt Ion:	43	Resp:	4511
Ion	Ratio	Lower	Upper
43	100		
72	16.5	28.8	43.2#

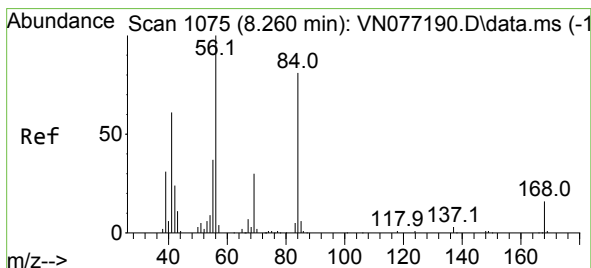
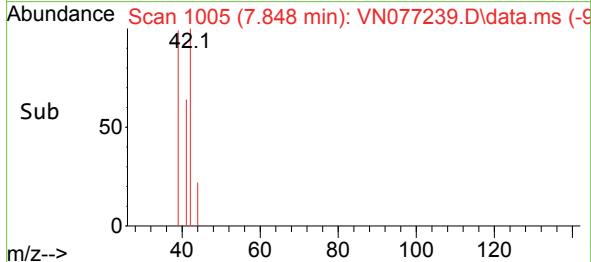
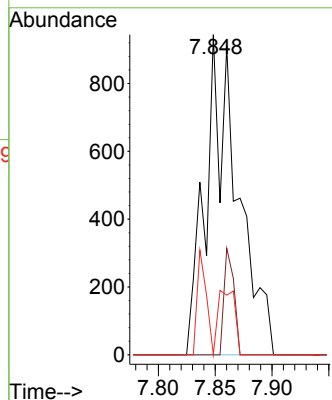
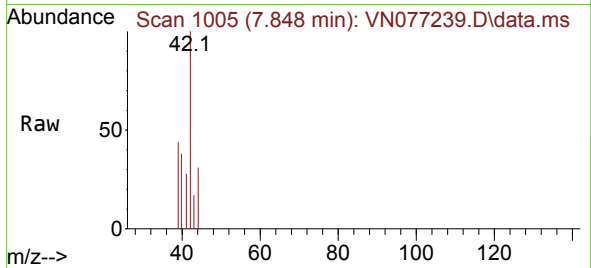




#29
Tetrahydrofuran
Concen: 1.158 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

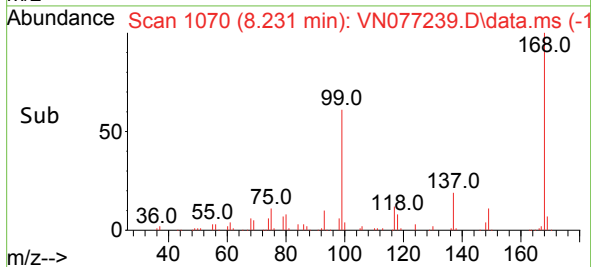
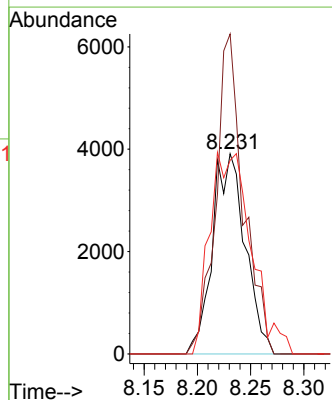
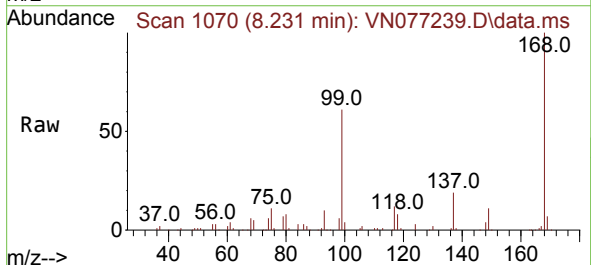
Instrument :
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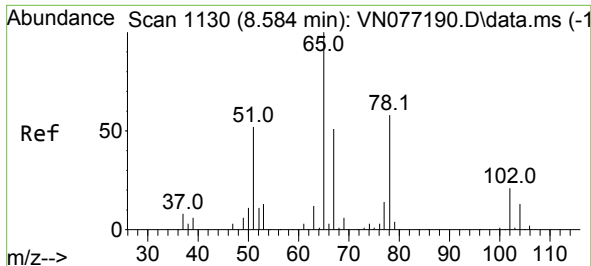
Tgt Ion: 42 Resp: 1832
Ion Ratio Lower Upper
42 100
72 10.4 48.6 73.0#
71 10.7 45.1 67.7#



#31
Cyclohexane
Concen: 1.464 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

Tgt Ion: 56 Resp: 8359
Ion Ratio Lower Upper
56 100
69 159.9 27.0 40.6#
84 96.7 82.9 124.3





#33

1,2-Dichloroethane-d4

Concen: 50.662 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

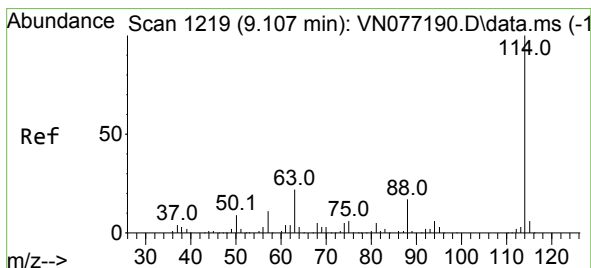
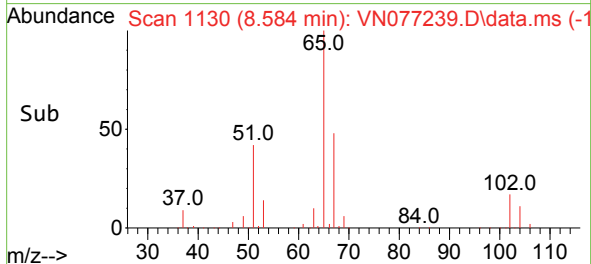
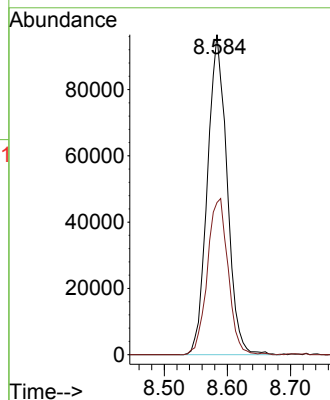
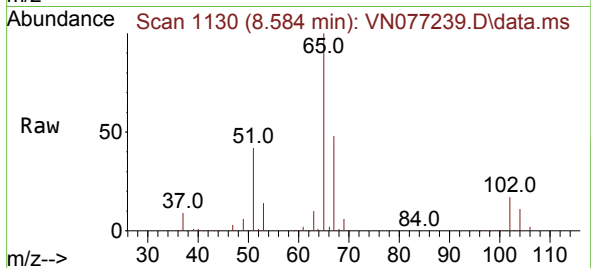
WV-SOIL2-0327

Tgt Ion: 65 Resp: 208168

Ion Ratio Lower Upper

65 100

67 51.5 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

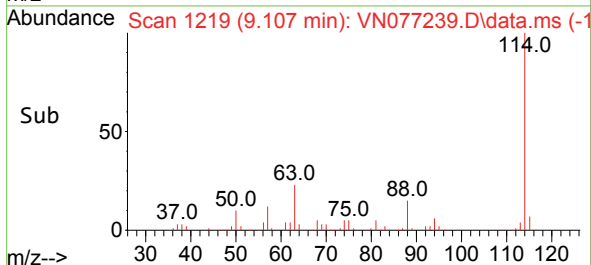
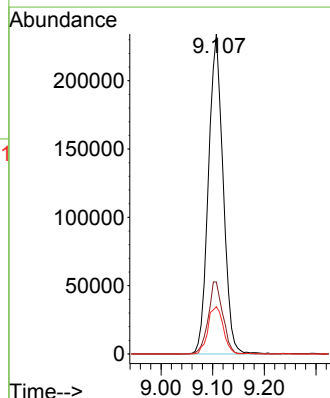
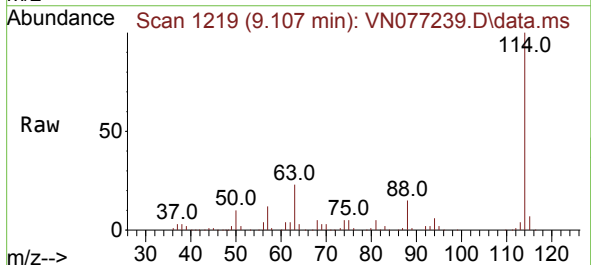
Tgt Ion: 114 Resp: 461333

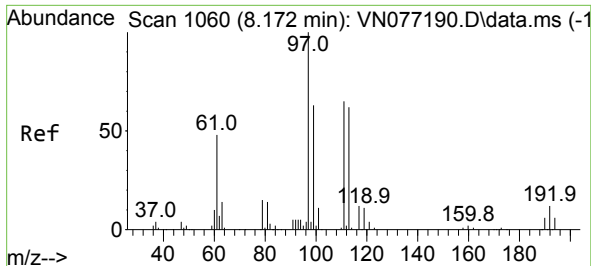
Ion Ratio Lower Upper

114 100

63 22.5 0.0 36.6

88 14.8 0.0 28.6





#35

Dibromofluoromethane

Concen: 45.837 ug/l

RT: 8.172 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

WV-SOIL2-0327

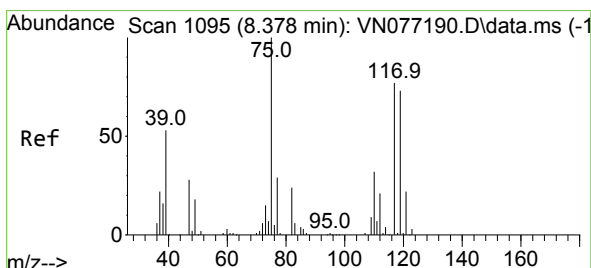
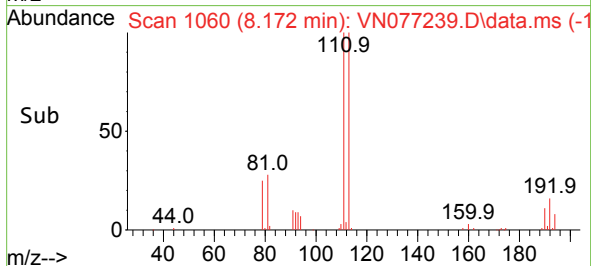
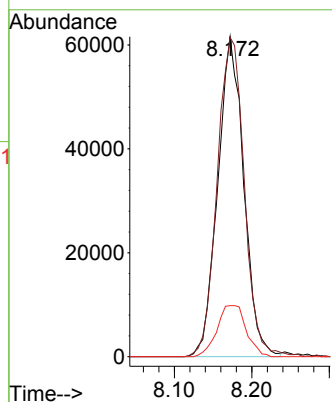
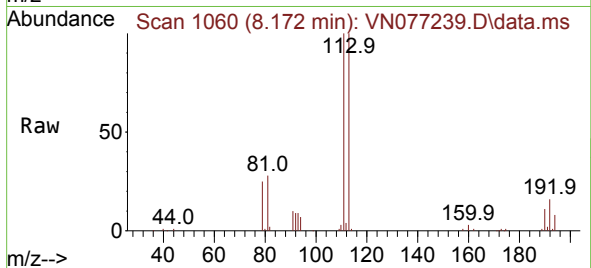
Tgt Ion:113 Resp: 143486

Ion Ratio Lower Upper

113 100

111 104.1 81.8 122.8

192 18.0 13.9 20.9



#36

1,1-Dichloropropene

Concen: 6.026 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.147 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

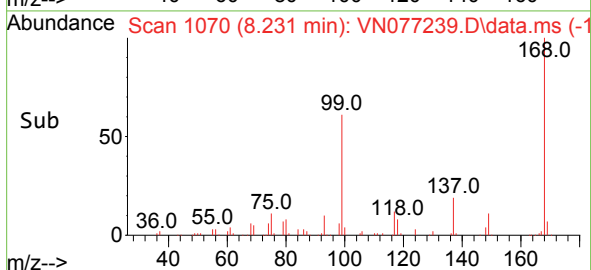
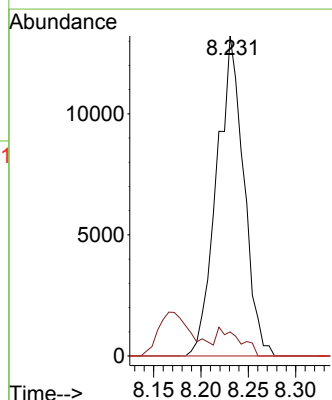
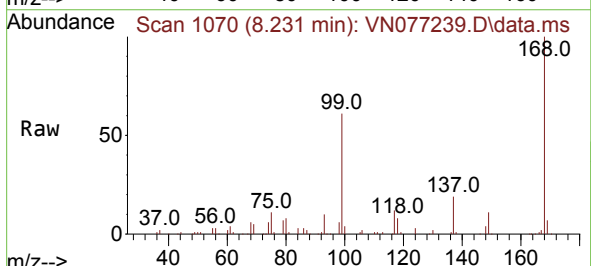
Tgt Ion: 75 Resp: 26252

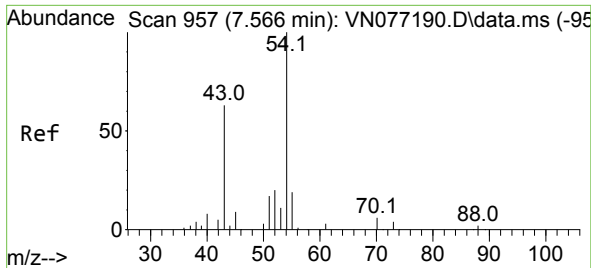
Ion Ratio Lower Upper

75 100

110 7.4 18.9 56.9#

77 0.0 24.9 37.3#

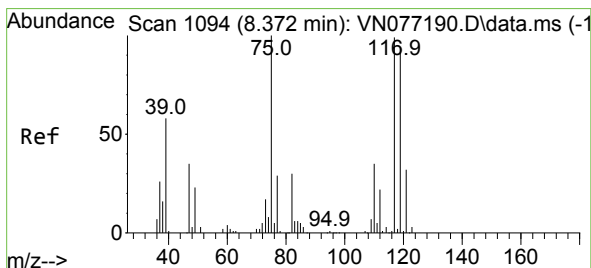
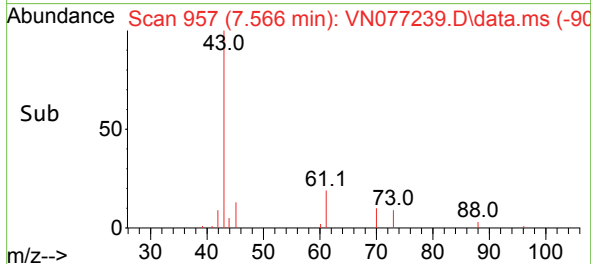
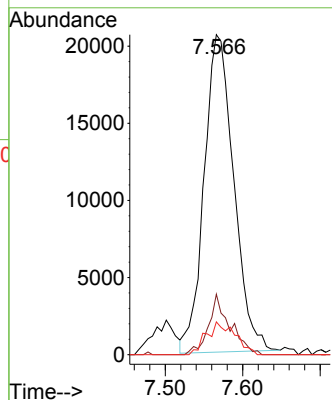
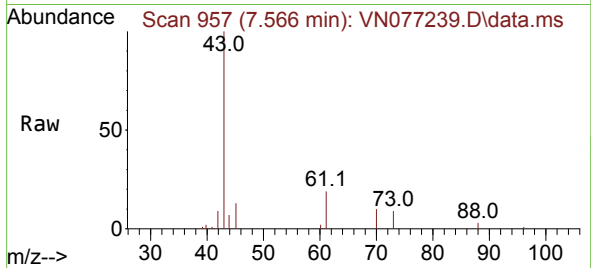




#37
Ethyl Acetate
Concen: 11.273 ug/l
RT: 7.566 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

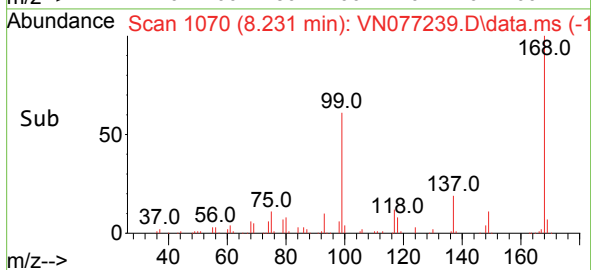
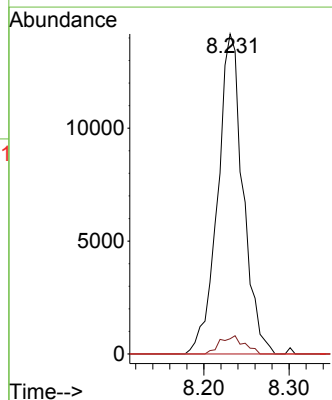
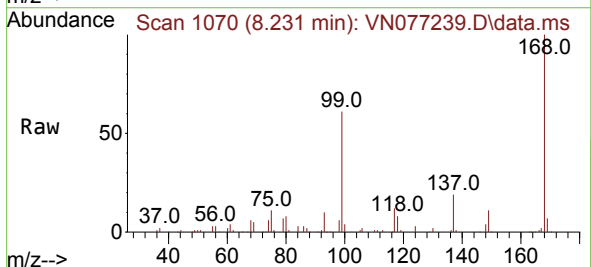
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL2-0327

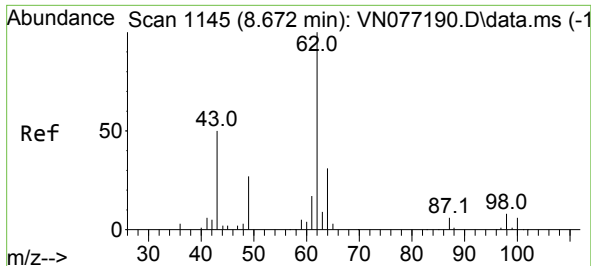
Tgt Ion:	43	Resp:	54743
Ion	Ratio	Lower	Upper
43	100		
61	13.9	13.5	20.3
70	10.0	11.0	16.6



#38
Carbon Tetrachloride
Concen: 6.616 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.141 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

Tgt Ion:	117	Resp:	29226
Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.9	115.3
121	0.0	23.2	34.8





#42

1,2-Dichloroethane

Concen: 0.325 ug/l

RT: 8.684 min Scan# 1147

Delta R.T. 0.012 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

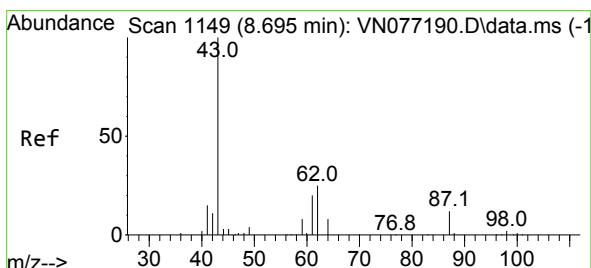
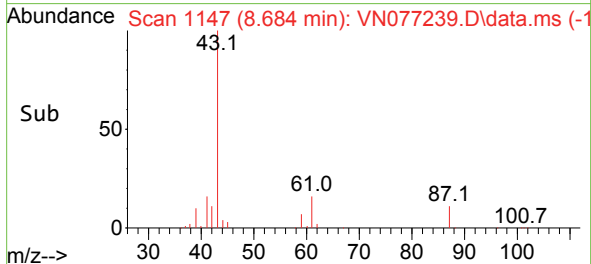
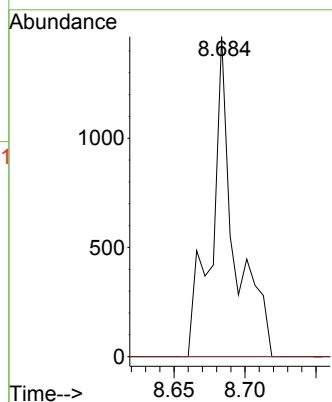
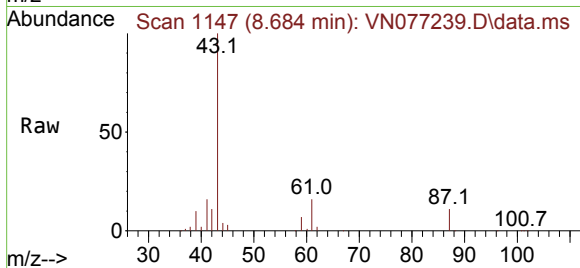
WV-SOIL2-0327

Tgt Ion: 62 Resp: 1634

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.8



#43

Isopropyl Acetate

Concen: 31.108 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

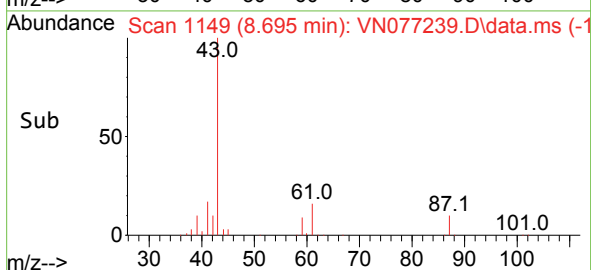
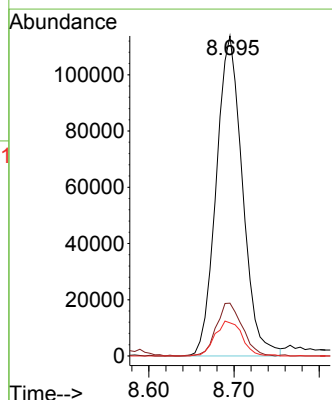
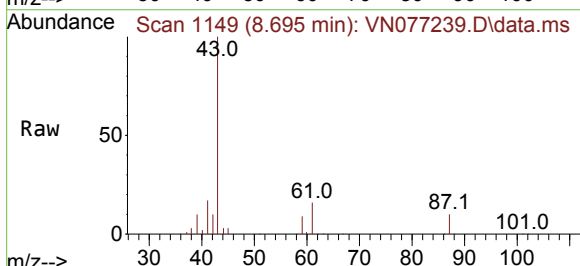
Tgt Ion: 43 Resp: 243715

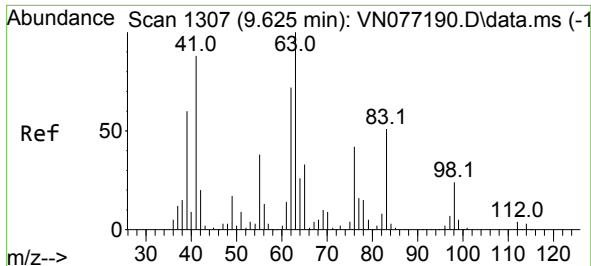
Ion Ratio Lower Upper

43 100

61 16.3 26.2 39.2#

87 11.2 14.8 22.2#





#45

1,2-Dichloropropane

Concen: 0.677 ug/l

RT: 9.742 min Scan# 1327

Delta R.T. 0.117 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

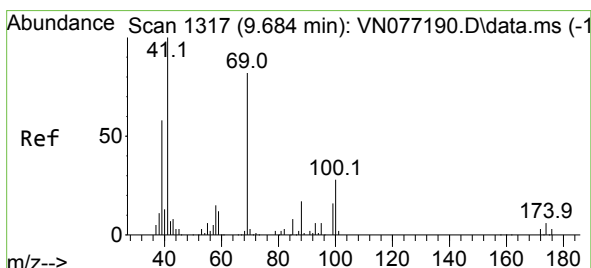
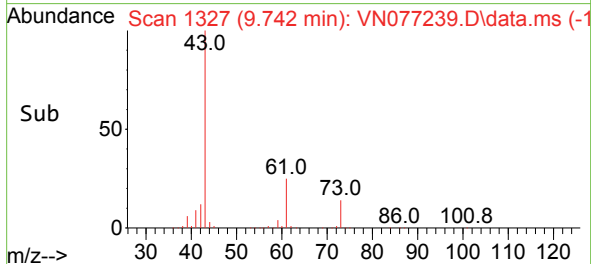
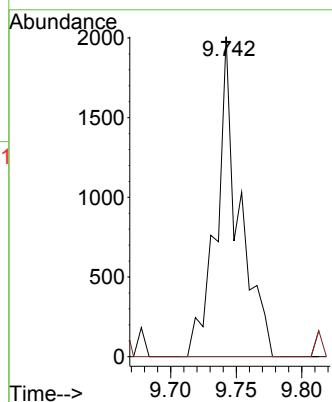
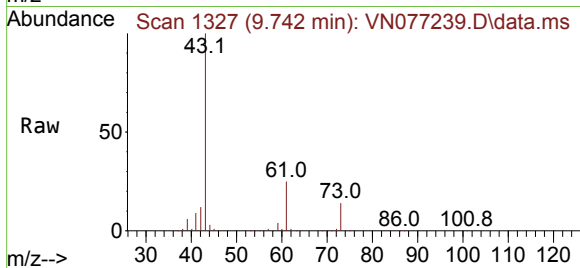
WV-SOIL2-0327

Tgt Ion: 63 Resp: 2405

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



#48

Methyl methacrylate

Concen: 2.028 ug/l

RT: 9.672 min Scan# 1315

Delta R.T. -0.012 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

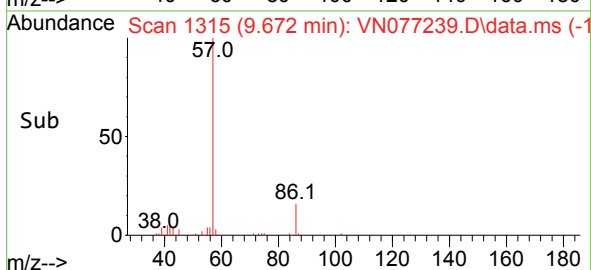
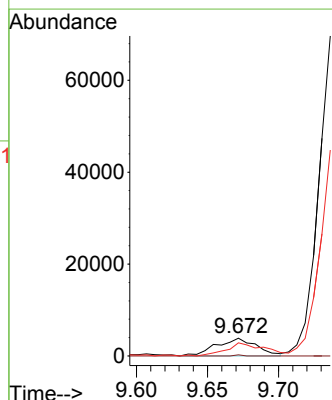
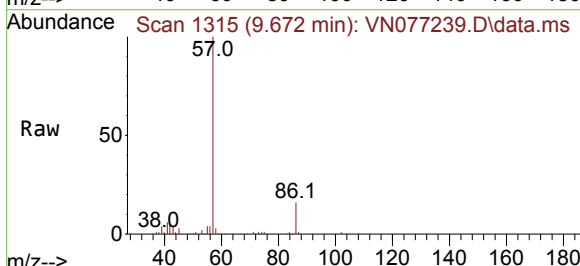
Tgt Ion: 41 Resp: 7650

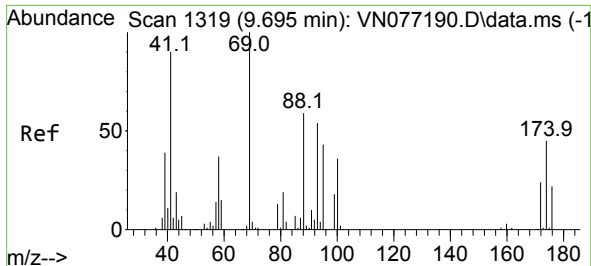
Ion Ratio Lower Upper

41 100

69 1.2 92.6 139.0#

39 71.6 51.4 77.0





#49

1,4-Dioxane

Concen: 1.290 ug/l

RT: 9.736 min Scan# 1319

Delta R.T. 0.041 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

WV-SOIL2-0327

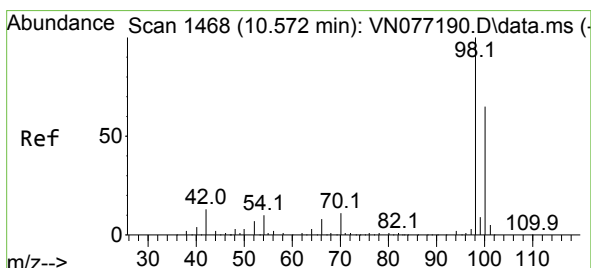
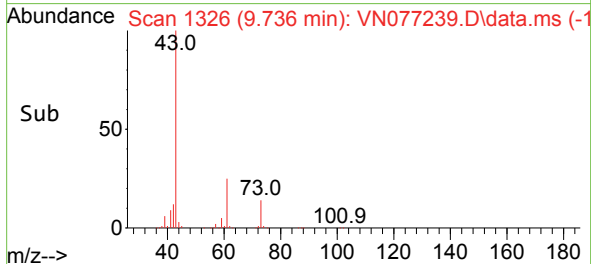
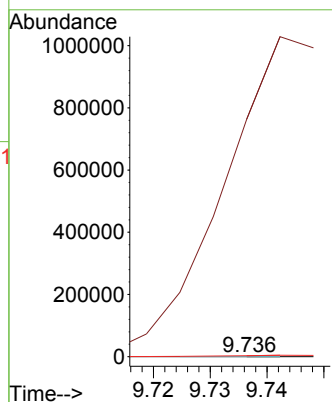
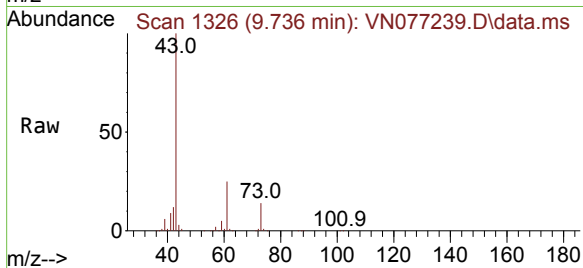
Tgt Ion: 88 Resp: 83

Ion Ratio Lower Upper

88 100

43 0.0 15.3 22.9#

58 0.0 47.6 71.4#



#50

Toluene-d8

Concen: 50.426 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077239.D

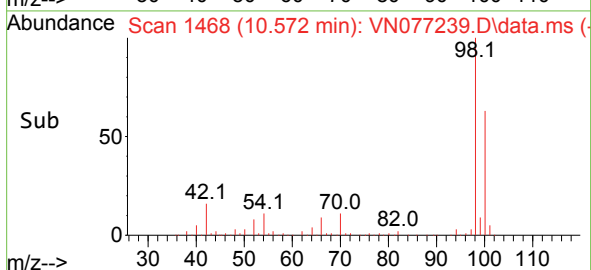
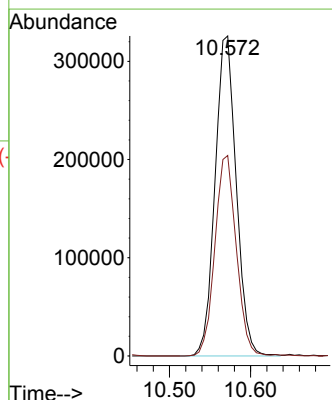
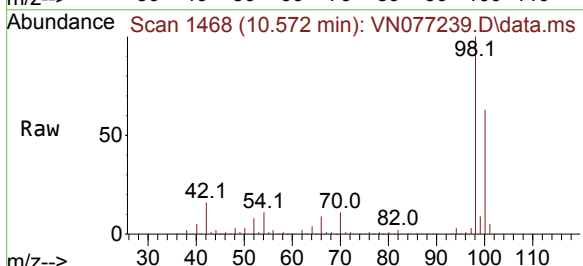
Acq: 28 Mar 2023 16:06

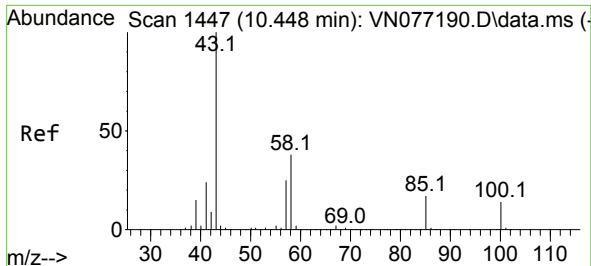
Tgt Ion: 98 Resp: 591480

Ion Ratio Lower Upper

98 100

100 63.1 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 3.996 ug/l

RT: 10.442 min Scan# 1447

Delta R.T. -0.006 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

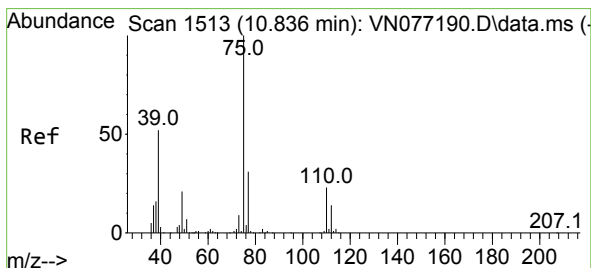
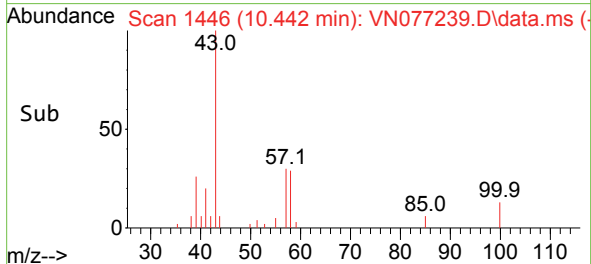
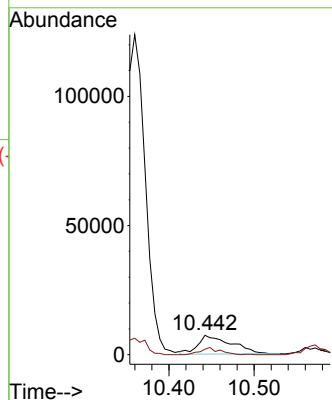
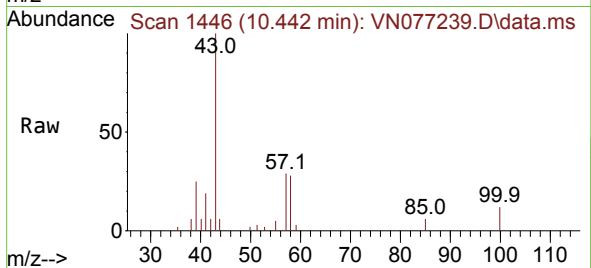
WV-SOIL2-0327

Tgt Ion: 43 Resp: 19697

Ion Ratio Lower Upper

43 100

58 21.8 37.4 56.0#



#53

t-1,3-Dichloropropene

Concen: 0.200 ug/l

RT: 10.725 min Scan# 1494

Delta R.T. -0.111 min

Lab File: VN077239.D

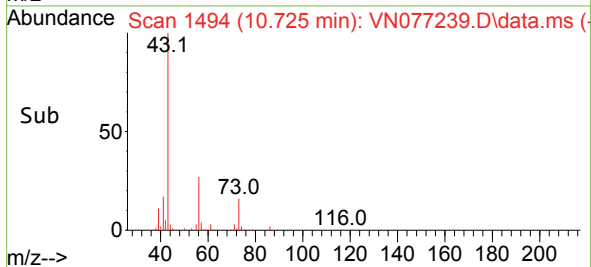
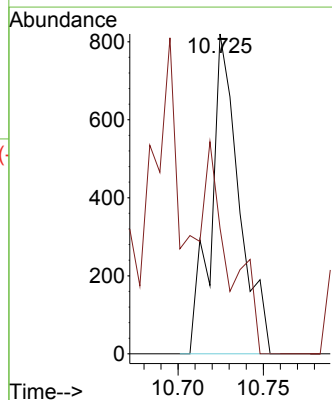
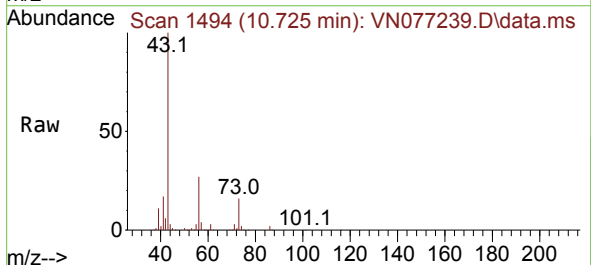
Acq: 28 Mar 2023 16:06

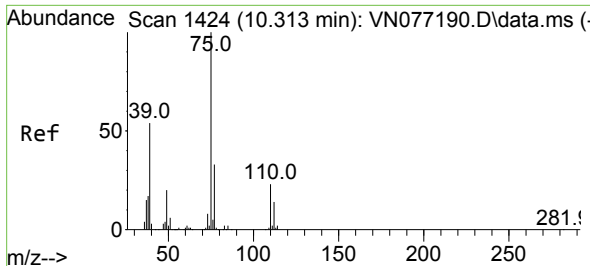
Tgt Ion: 75 Resp: 937

Ion Ratio Lower Upper

75 100

77 39.3 25.0 37.6#

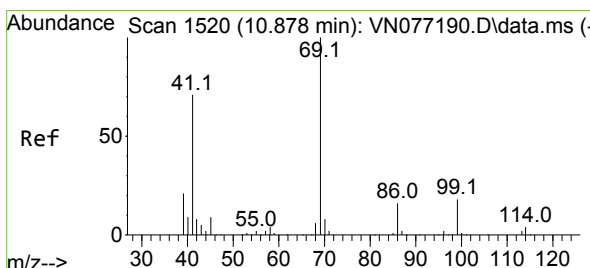
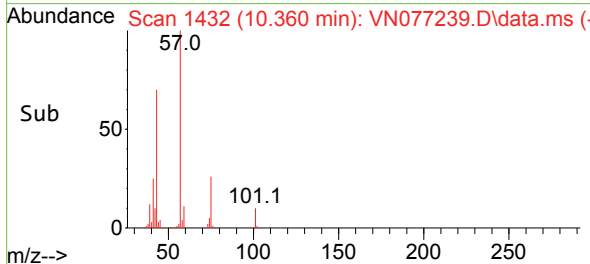
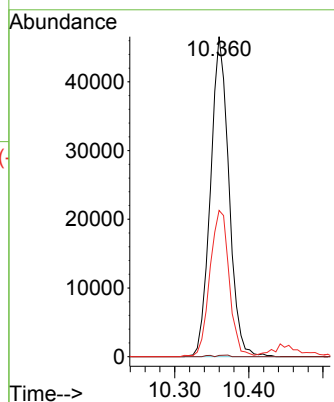
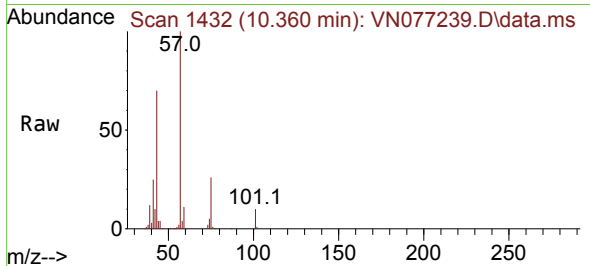




#54
cis-1,3-Dichloropropene
Concen: 15.701 ug/l
RT: 10.360 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

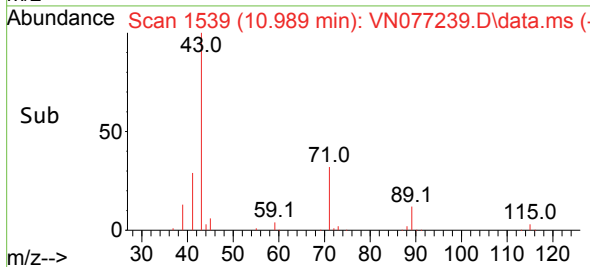
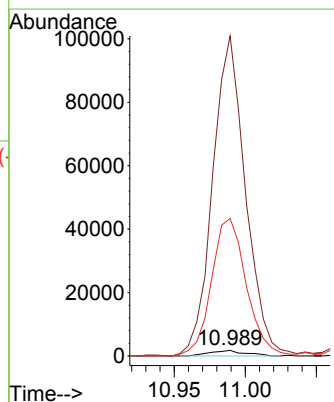
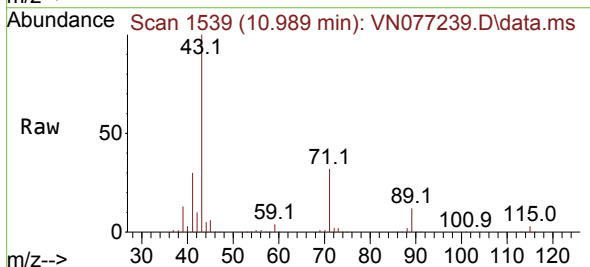
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL2-0327

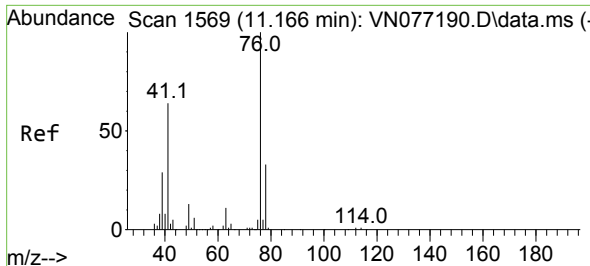
Tgt Ion: 75 Resp: 80486
Ion Ratio Lower Upper
75 100
77 0.4 25.7 38.5#
39 44.8 29.7 44.5#



#56
Ethyl methacrylate
Concen: 0.641 ug/l
RT: 10.989 min Scan# 1539
Delta R.T. 0.111 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

Tgt Ion: 69 Resp: 3026
Ion Ratio Lower Upper
69 100
41 5394.2 38.0 57.0#
39 2447.6 22.4 33.6#





#57

1,3-Dichloropropane

Concen: 1.601 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.035 min

Lab File: VN077239.D

Acq: 28 Mar 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

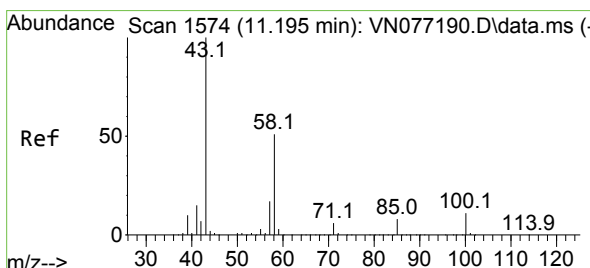
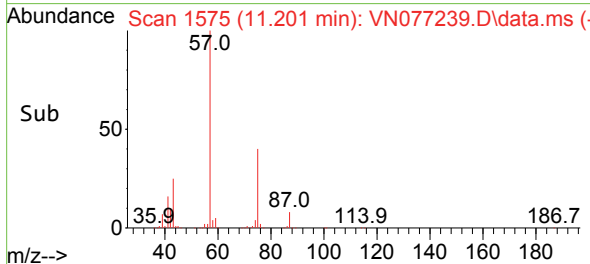
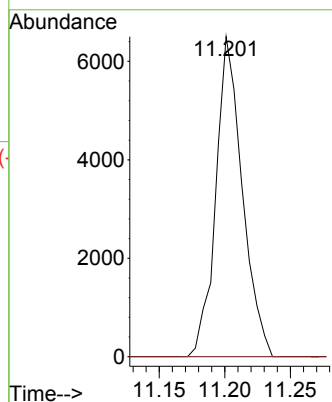
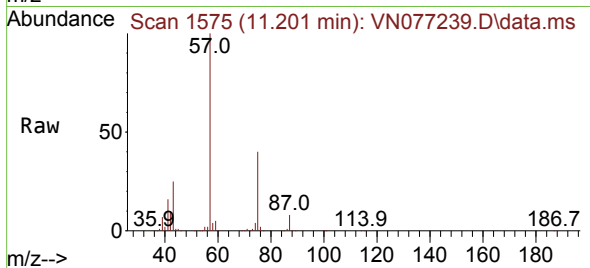
WV-SOIL2-0327

Tgt Ion: 76 Resp: 9121

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 72.963 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN077239.D

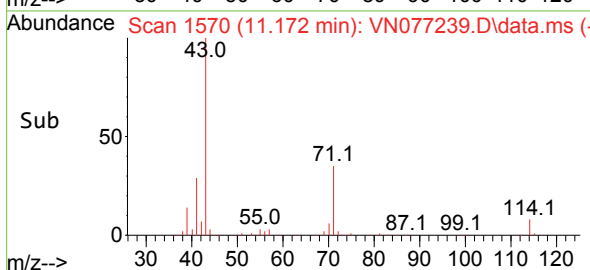
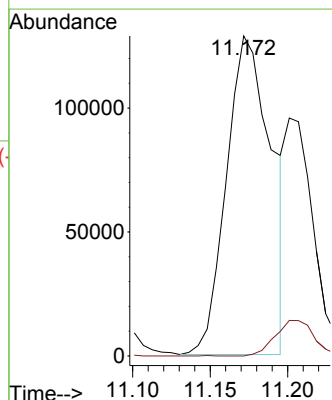
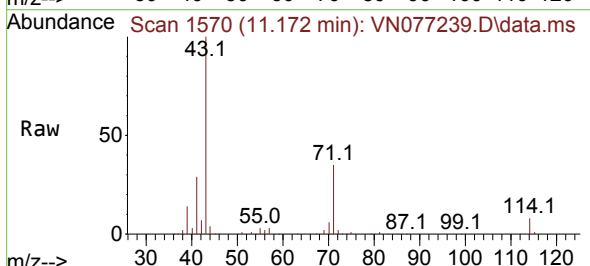
Acq: 28 Mar 2023 16:06

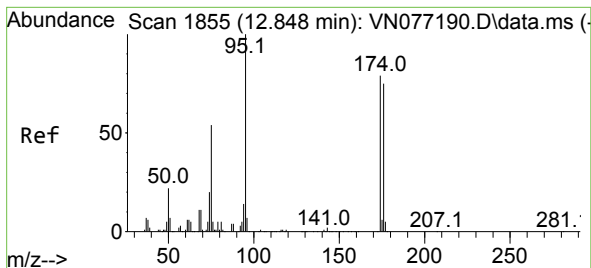
Tgt Ion: 43 Resp: 258486

Ion Ratio Lower Upper

43 100

58 0.0 32.6 98.0#

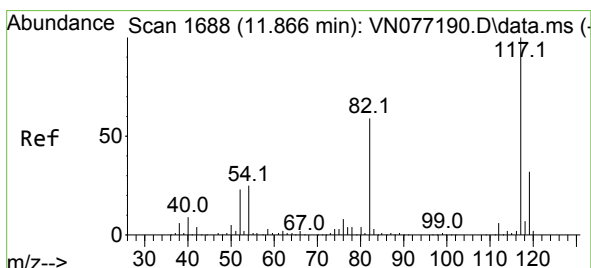
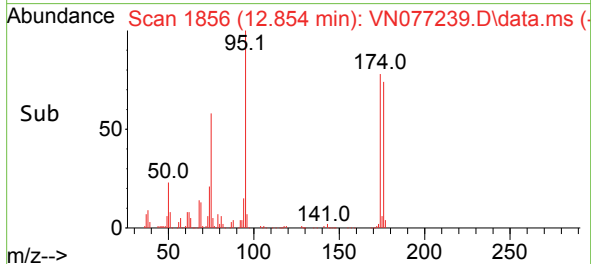
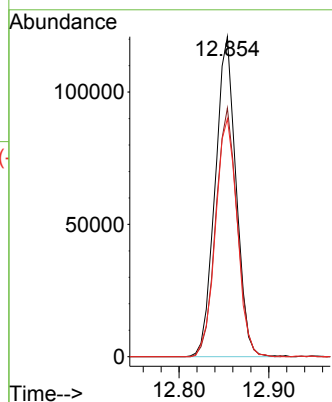
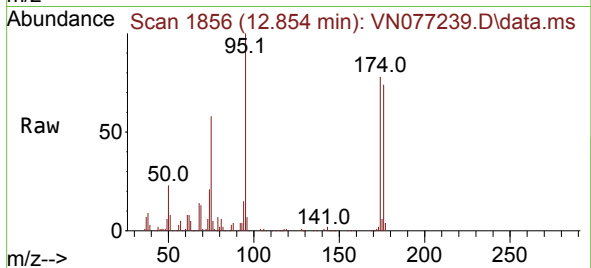




#62
4-Bromofluorobenzene
Concen: 50.802 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

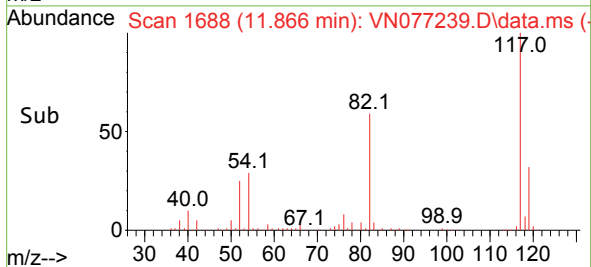
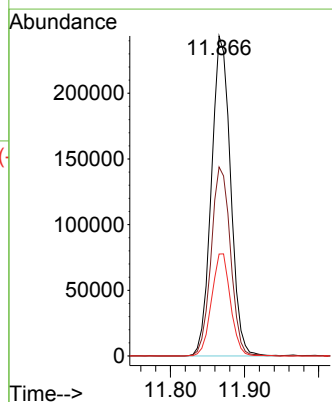
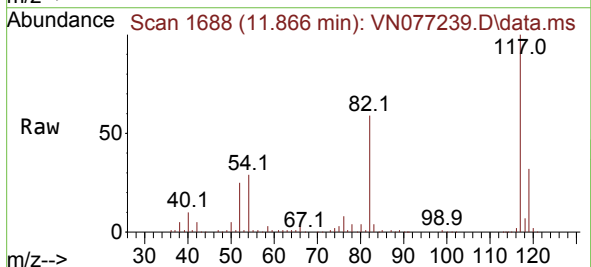
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL2-0327

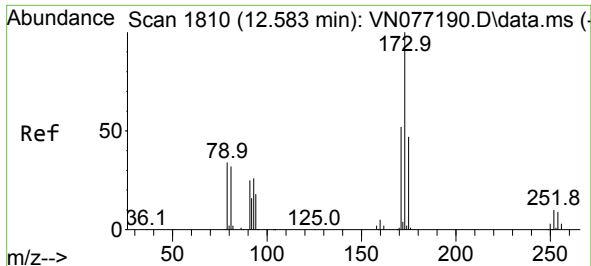
Tgt Ion: 95 Resp: 195566
Ion Ratio Lower Upper
95 100
174 79.4 0.0 162.4
176 77.1 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

Tgt Ion: 117 Resp: 437034
Ion Ratio Lower Upper
117 100
82 59.1 43.5 65.3
119 31.9 25.5 38.3

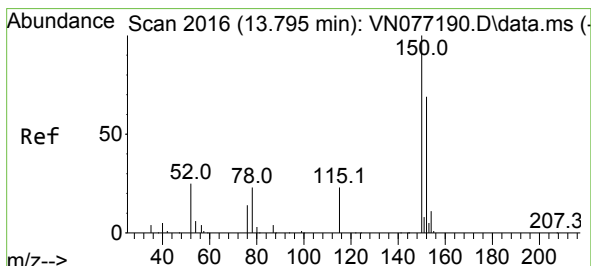
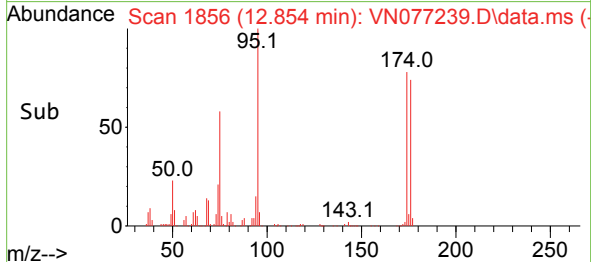
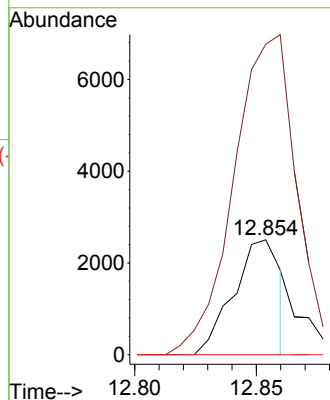
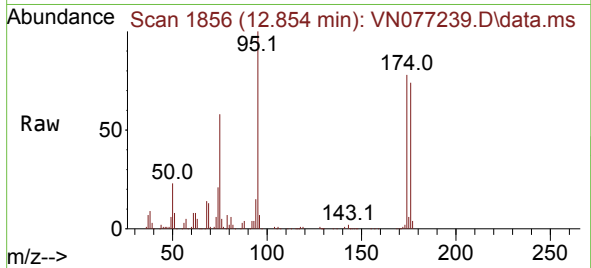




#71
Bromoform
Concen: 1.405 ug/l
RT: 12.854 min Scan# 1810
Delta R.T. 0.271 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

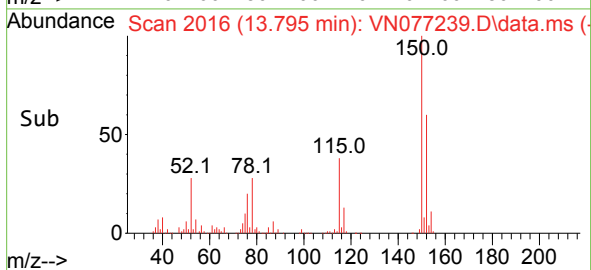
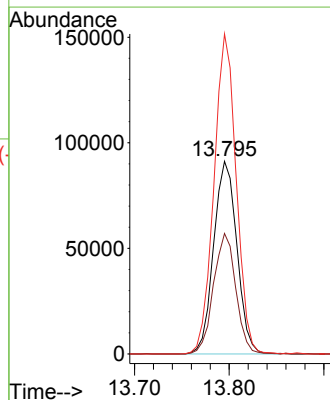
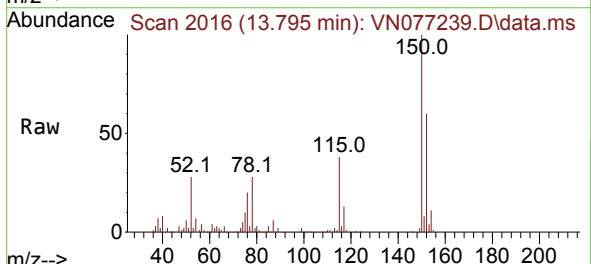
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL2-0327

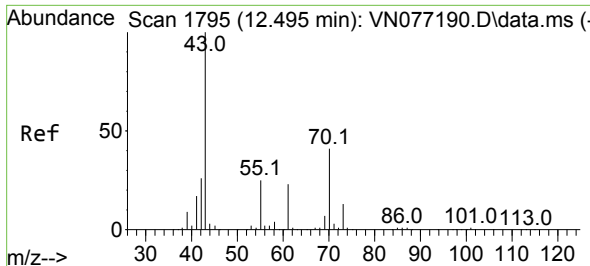
Tgt Ion:173 Resp: 3347
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

Tgt Ion:152 Resp: 155899
Ion Ratio Lower Upper
152 100
115 60.0 30.3 90.9
150 158.8 0.0 353.6

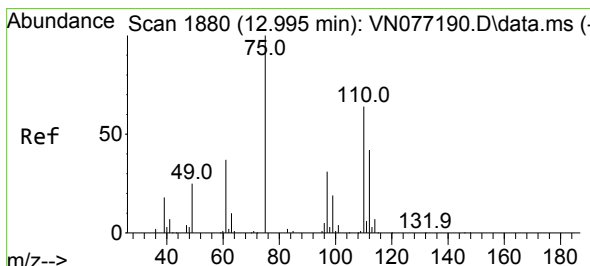
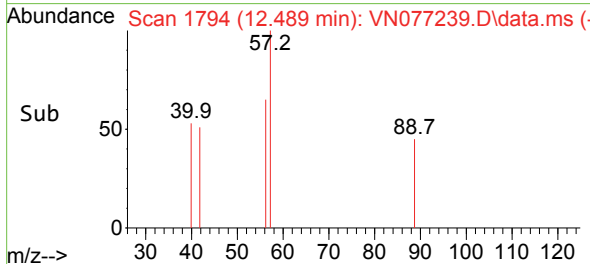
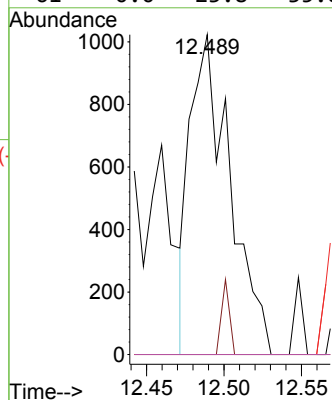
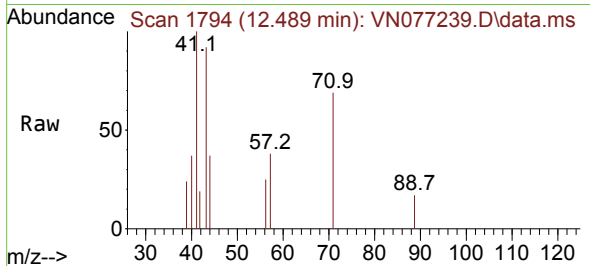




#74
N-amy1 acetate
Concen: 0.340 ug/l
RT: 12.489 min Scan# 1816
Delta R.T. -0.006 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

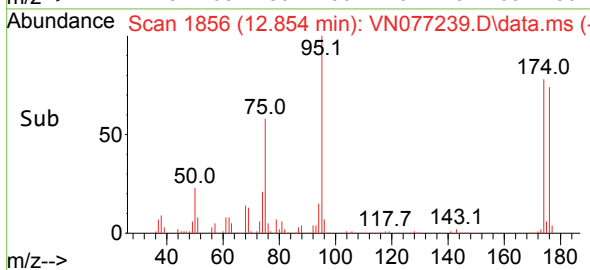
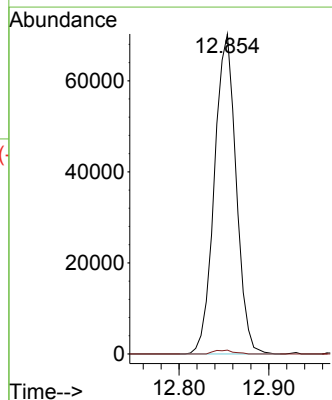
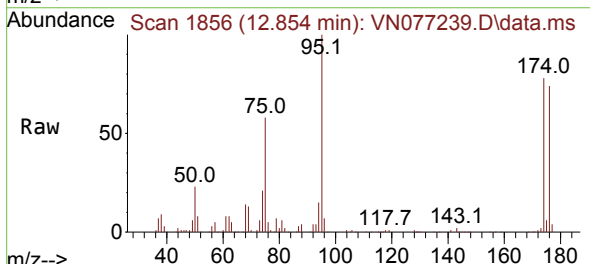
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL2-0327

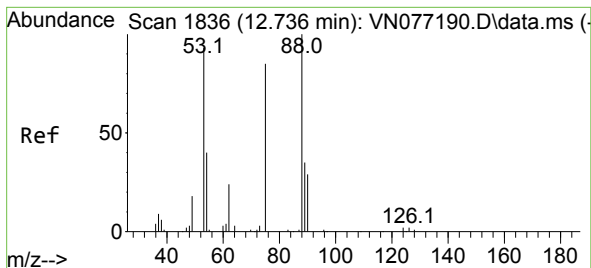
Tgt Ion: 43	Resp: 1816
Ion Ratio	Lower Upper
43 100	
70 4.7	46.8 70.2#
55 0.0	23.4 35.2#
61 0.0	23.8 35.8#



#76
1,2,3-Trichloropropane
Concen: 37.386 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

Tgt Ion: 75	Resp: 118235
Ion Ratio	Lower Upper
75 100	
77 1.1	93.8 281.4#

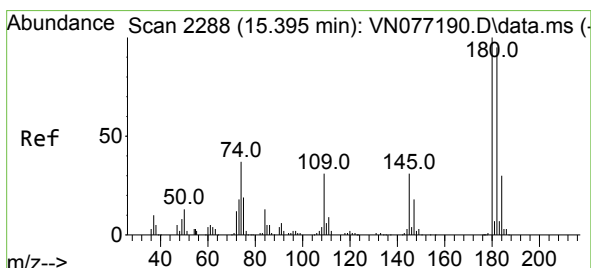
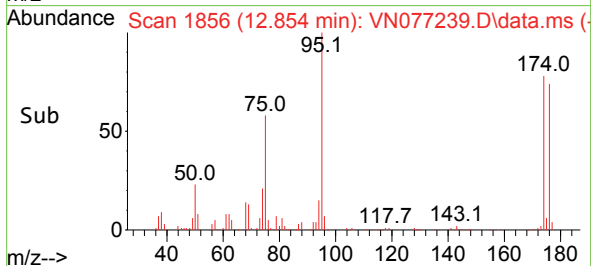
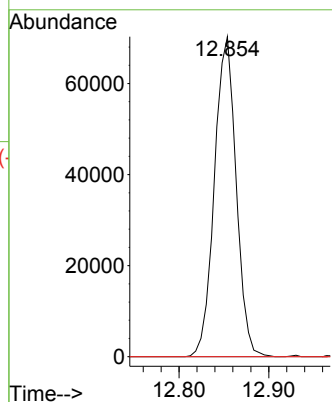
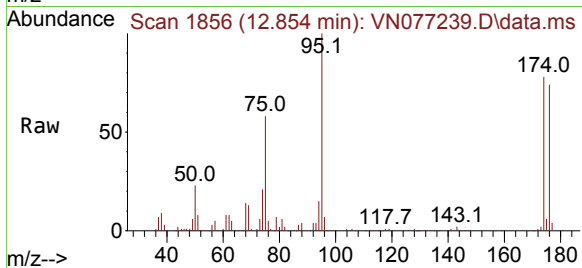




#81
trans-1,4-Dichloro-2-butene
Concen: 107.752 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

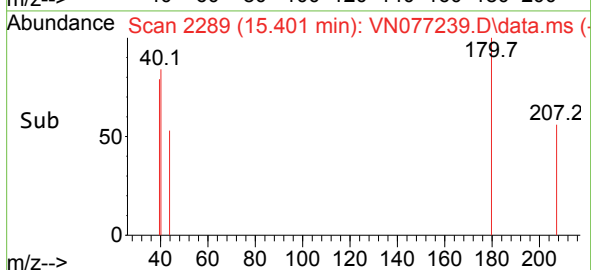
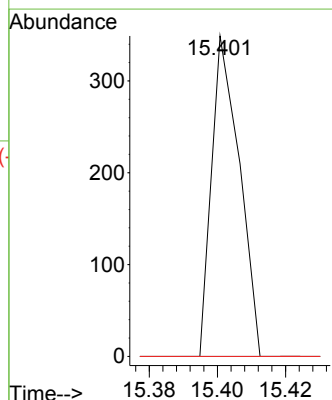
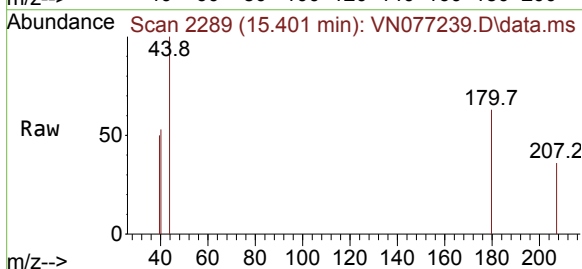
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL2-0327

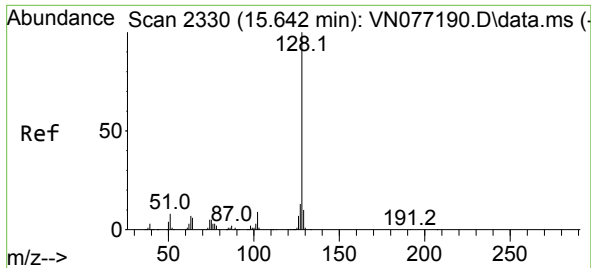
Tgt Ion: 75 Resp: 118235
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.0#
89 0.0 39.5 59.3#



#93
1,2,4-Trichlorobenzene
Concen: 4.449 ug/l
RT: 15.401 min Scan# 2289
Delta R.T. 0.006 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

Tgt Ion:180 Resp: 197
Ion Ratio Lower Upper
180 100
182 0.0 47.4 142.2#
145 0.0 15.8 47.3#





#95
Naphthalene
Concen: 6.001 ug/l
RT: 15.648 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN077239.D
Acq: 28 Mar 2023 16:06

Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL2-0327

Tgt Ion:128 Resp: 812
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.4
129 9.9 8.9 13.3

