

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031423\
 Data File : VN076990.D
 Acq On : 14 Mar 2023 18:22
 Operator : JC\MD
 Sample : 01877-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-SOIL

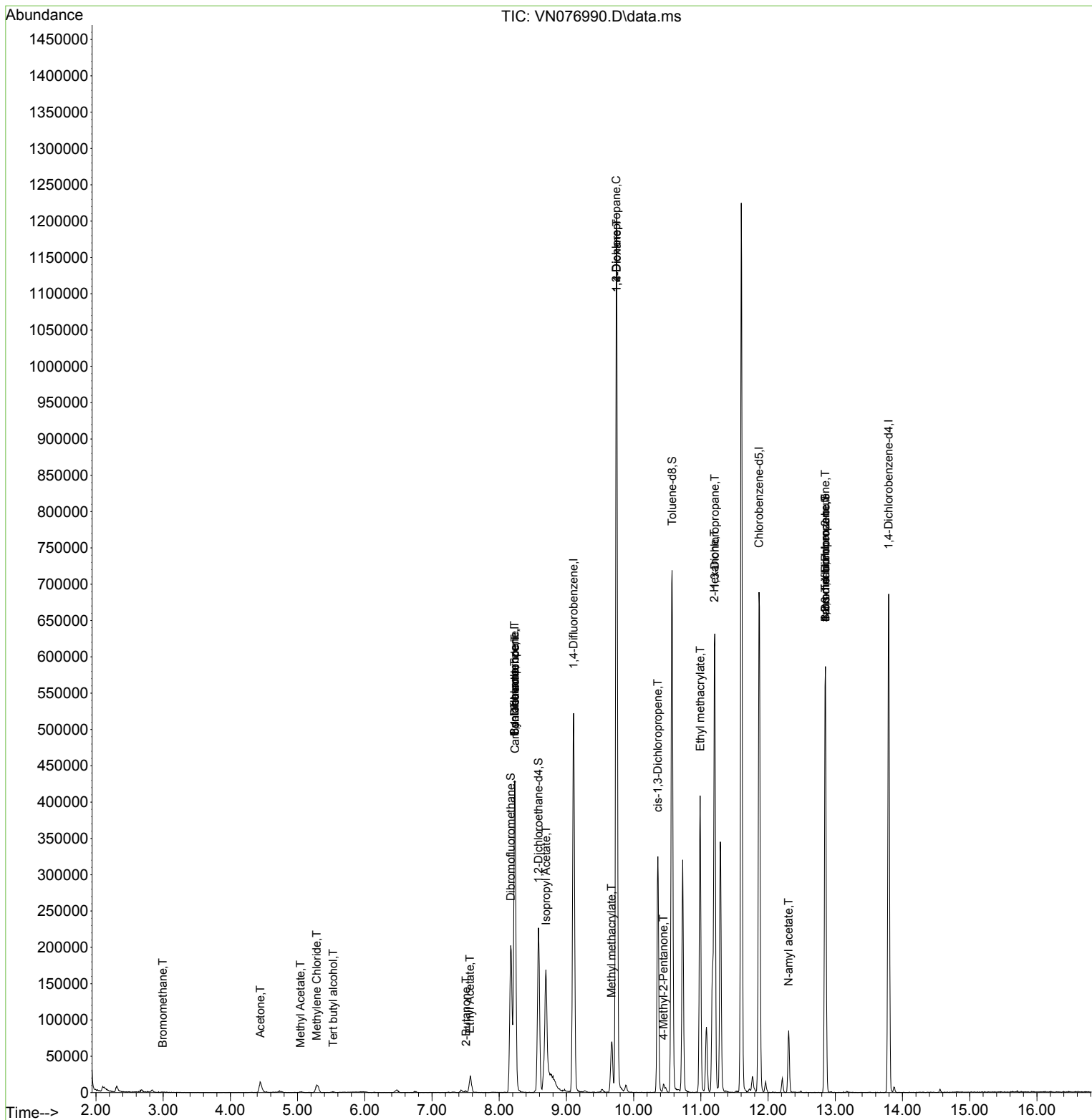
Quant Time: Mar 15 04:28:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031023W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 10 13:47:39 2023
 Response via : Initial Calibration

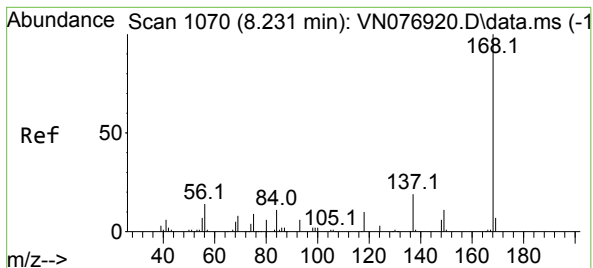
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.231	168	284652	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	427777	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	387072	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	176954	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	217926	51.303	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.600%			
35) Dibromofluoromethane	8.172	113	140075	49.132	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.260%			
50) Toluene-d8	10.572	98	502177	47.793	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.580%			
62) 4-Bromofluorobenzene	12.854	95	192394	50.061	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.120%			
Target Compounds					Qvalue	
5) Bromomethane	2.996	94	495	0.261	ug/l #	1
11) Tert butyl alcohol	5.531	59	347	0.587	ug/l #	72
16) Acetone	4.449	43	25979	17.650	ug/l	96
18) Methyl Acetate	5.043	43	2230	0.411	ug/l #	88
20) Methylene Chloride	5.284	84	9251	2.444	ug/l	86
25) 2-Butanone	7.507	43	3343	1.597	ug/l	90
31) Cyclohexane	8.231	56	6948	1.140	ug/l #	32
36) 1,1-Dichloropropene	8.231	75	24166	5.481	ug/l #	51
37) Ethyl Acetate	7.566	43	30444	8.634	ug/l	98
38) Carbon Tetrachloride	8.237	117	34571	6.699	ug/l #	15
43) Isopropyl Acetate	8.695	43	237488	38.152	ug/l #	71
45) 1,2-Dichloropropane	9.742	63	1648	0.515	ug/l #	43
48) Methyl methacrylate	9.672	41	4019	1.318	ug/l #	26
49) 1,4-Dioxane	9.748	88	290	5.022	ug/l #	1
51) 4-Methyl-2-Pentanone	10.442	43	6108	1.633	ug/l	89
54) cis-1,3-Dichloropropene	10.360	75	57387	11.063	ug/l #	70
56) Ethyl methacrylate	10.989	69	1389	0.294	ug/l #	1
57) 1,3-Dichloropropane	11.207	76	6560	1.195	ug/l #	42
59) 2-Hexanone	11.201	43	86834	31.849	ug/l #	43
71) Bromoform	12.854	173	1037	0.423	ug/l #	1
74) N-amyl acetate	12.307	43	26801	5.134	ug/l #	42
76) 1,2,3-Trichloropropane	12.854	75	119965	27.963	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	119965	91.341	ug/l #	15

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

Quant Time: Mar 15 04:28:03 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031023W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 10 13:47:39 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076990.D

Acq: 14 Mar 2023 18:22

Instrument :

MSVOA_N

ClientSampleId :

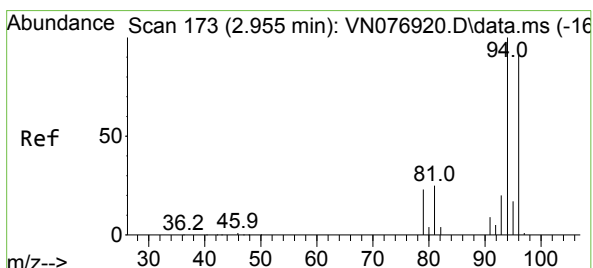
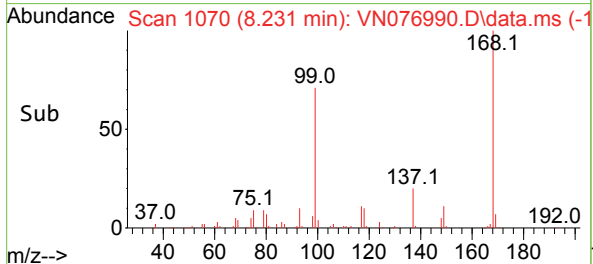
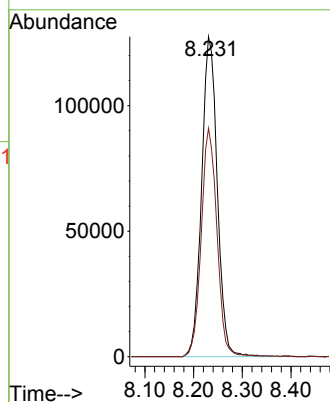
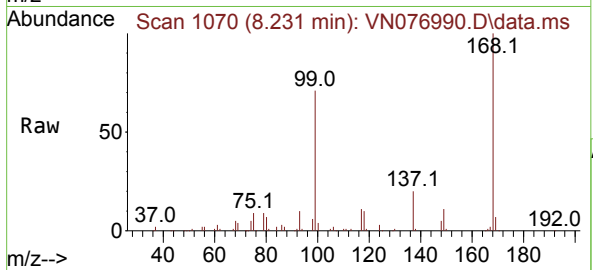
COMP-SOIL

Tgt Ion:168 Resp: 284652

Ion Ratio Lower Upper

168 100

99 71.4 48.6 73.0



#5

Bromomethane

Concen: 0.261 ug/l

RT: 2.996 min Scan# 180

Delta R.T. 0.041 min

Lab File: VN076990.D

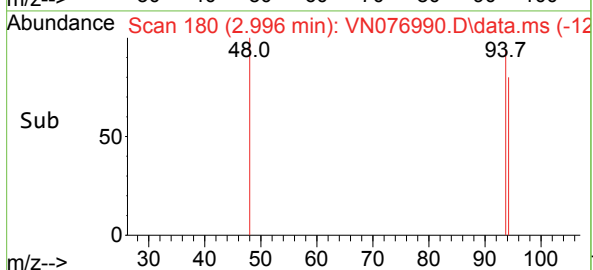
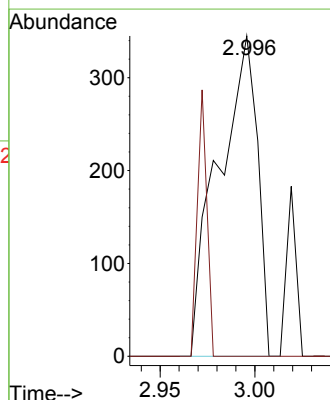
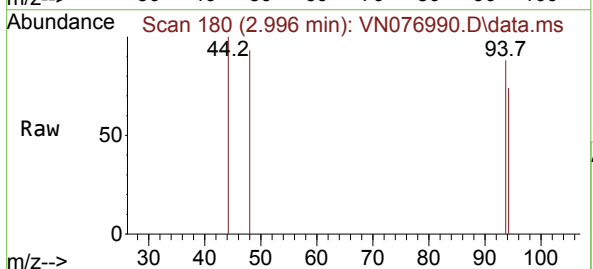
Acq: 14 Mar 2023 18:22

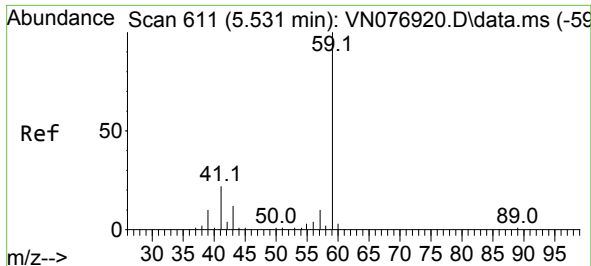
Tgt Ion: 94 Resp: 495

Ion Ratio Lower Upper

94 100

96 0.0 79.0 118.6#

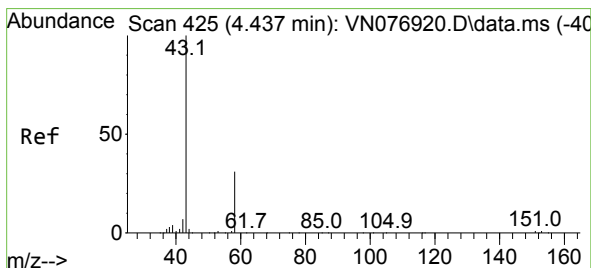
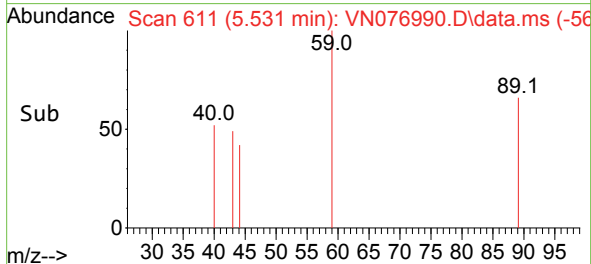
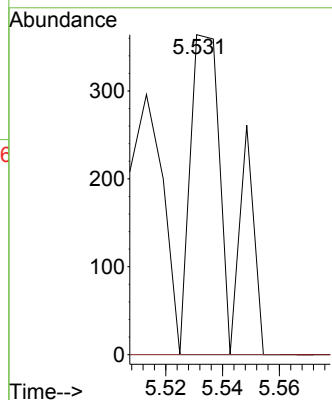
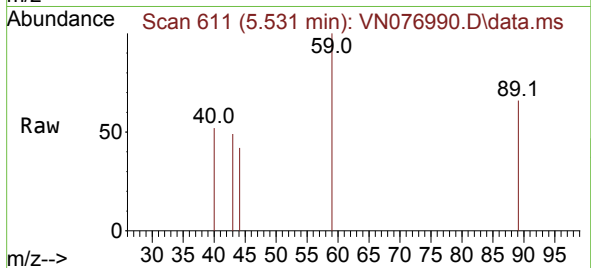




#11
Tert butyl alcohol
Concen: 0.587 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

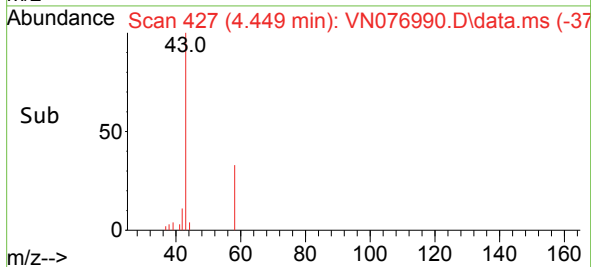
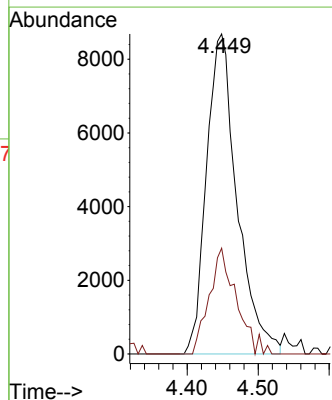
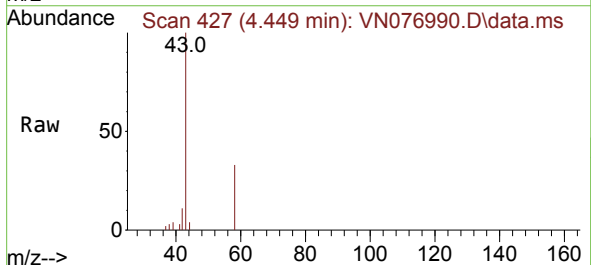
Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

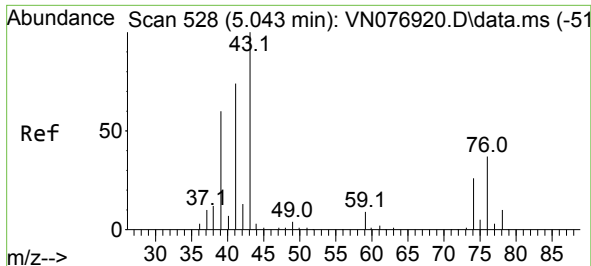
Tgt Ion: 59 Resp: 347
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 17.650 ug/l
RT: 4.449 min Scan# 427
Delta R.T. 0.012 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion: 43 Resp: 25979
Ion Ratio Lower Upper
43 100
58 33.0 28.2 42.2

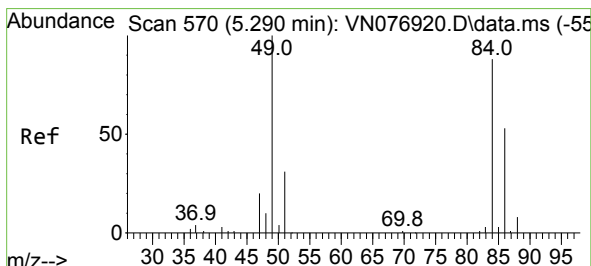
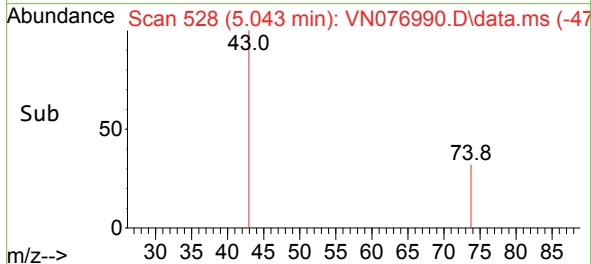
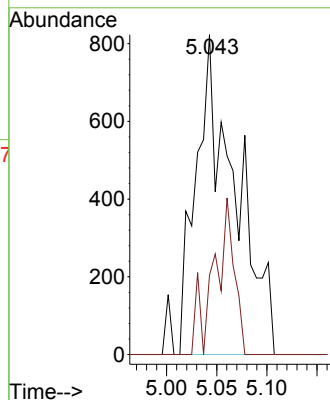
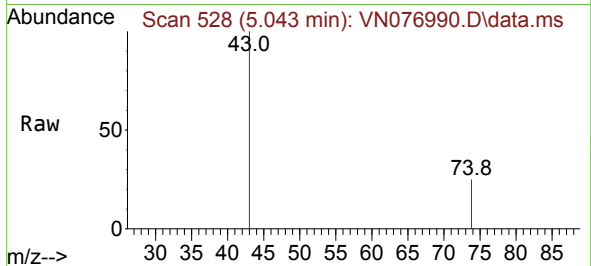




#18
Methyl Acetate
Concen: 0.411 ug/l
RT: 5.043 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

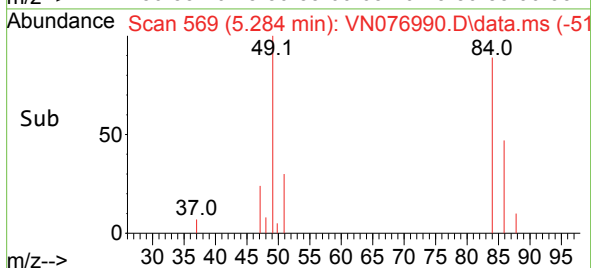
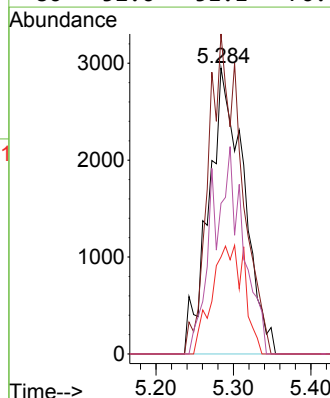
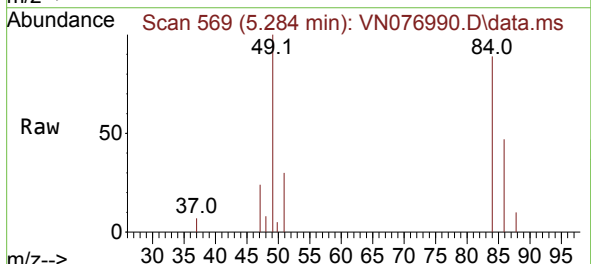
Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

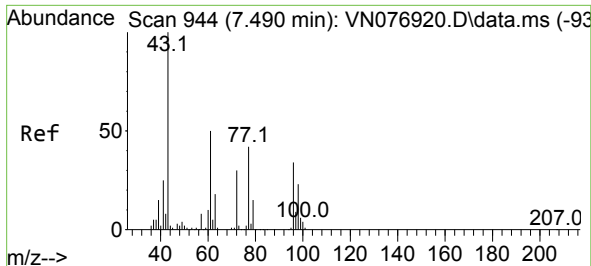
Tgt Ion: 43 Resp: 2230
Ion Ratio Lower Upper
43 100
74 25.7 25.9 38.9#



#20
Methylene Chloride
Concen: 2.444 ug/l
RT: 5.284 min Scan# 569
Delta R.T. -0.006 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion: 84 Resp: 9251
Ion Ratio Lower Upper
84 100
49 111.9 76.6 114.8
51 33.9 25.4 38.2
86 52.6 51.1 76.7

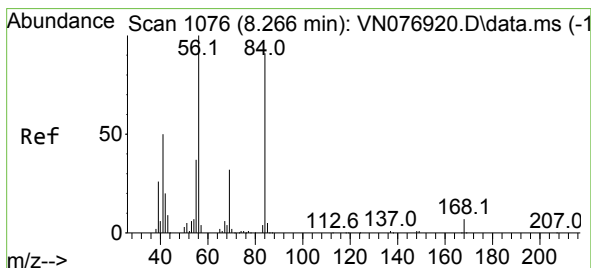
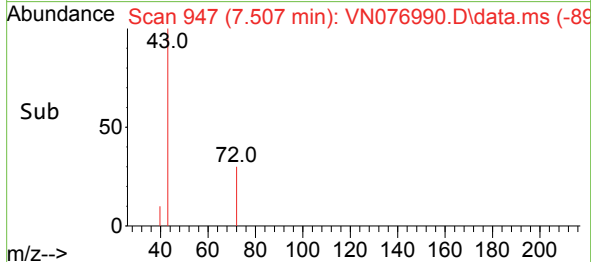
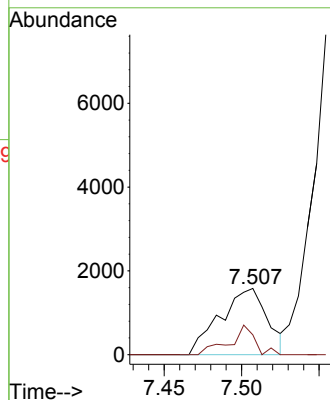
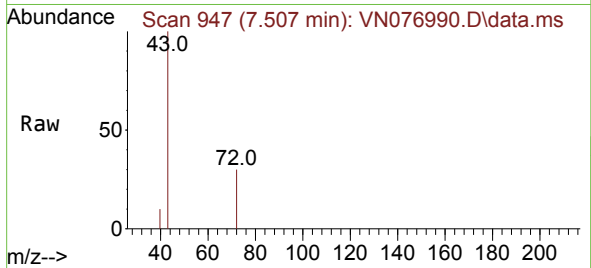




#25
2-Butanone
Concen: 1.597 ug/l
RT: 7.507 min Scan# 947
Delta R.T. 0.017 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

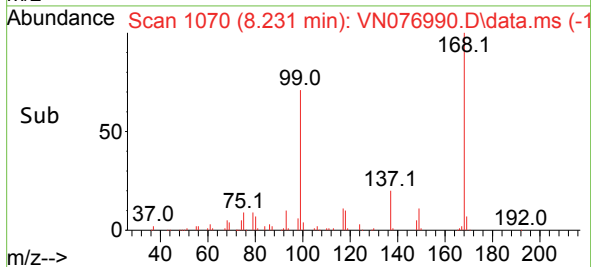
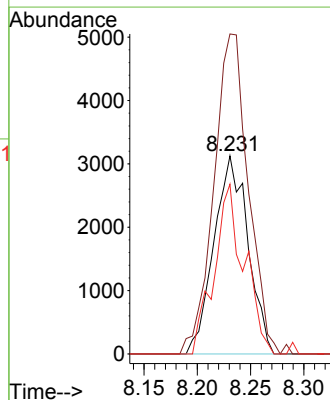
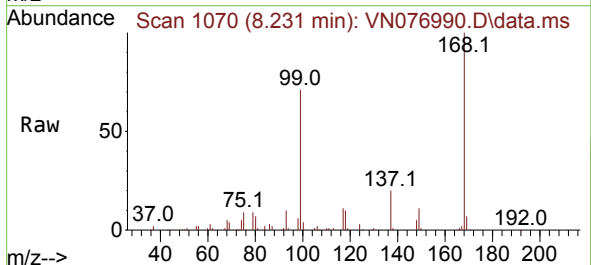
Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

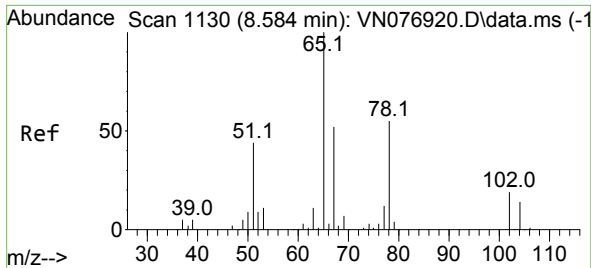
Tgt Ion: 43 Resp: 3343
Ion Ratio Lower Upper
43 100
72 29.9 28.8 43.2



#31
Cyclohexane
Concen: 1.140 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.035 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion: 56 Resp: 6948
Ion Ratio Lower Upper
56 100
69 161.6 27.0 40.6#
84 85.7 82.9 124.3





#33

1,2-Dichloroethane-d4

Concen: 51.303 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076990.D

Acq: 14 Mar 2023 18:22

Instrument :

MSVOA_N

ClientSampleId :

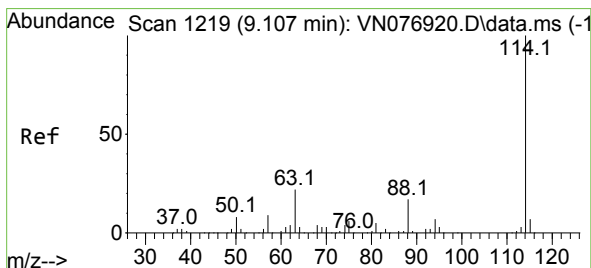
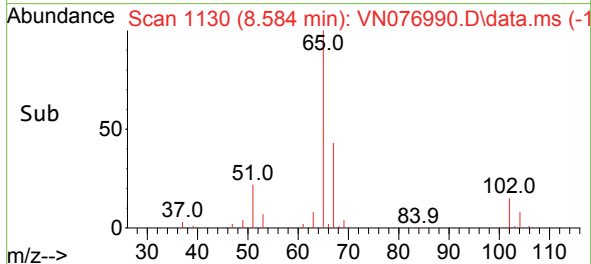
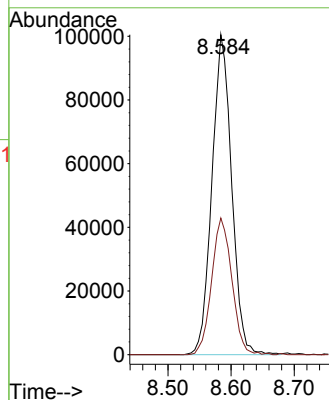
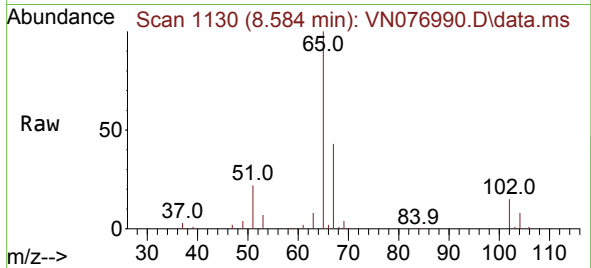
COMP-SOIL

Tgt Ion: 65 Resp: 217926

Ion Ratio Lower Upper

65 100

67 43.9 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: VN076990.D

Acq: 14 Mar 2023 18:22

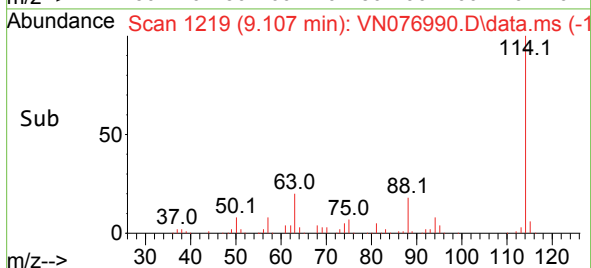
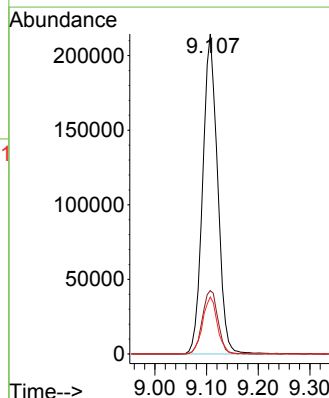
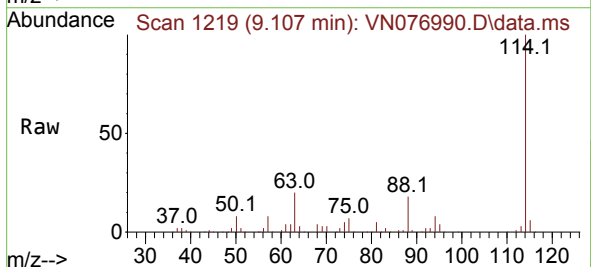
Tgt Ion: 114 Resp: 427777

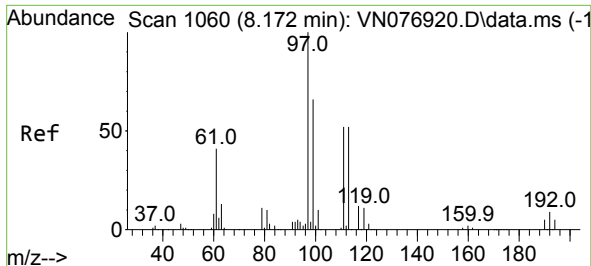
Ion Ratio Lower Upper

114 100

63 19.8 0.0 36.6

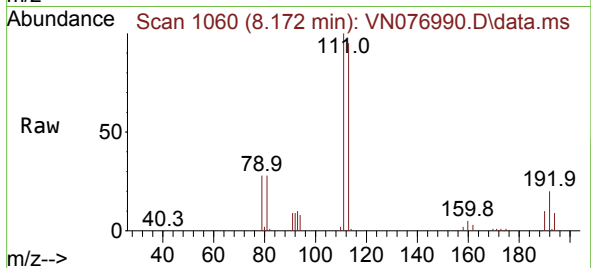
88 17.8 0.0 28.6



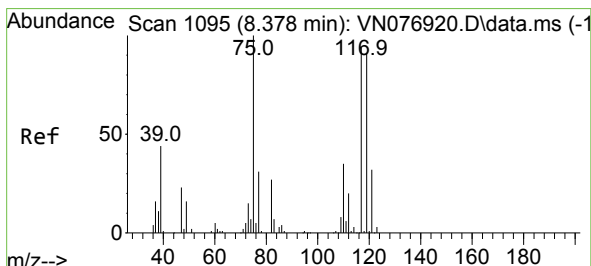
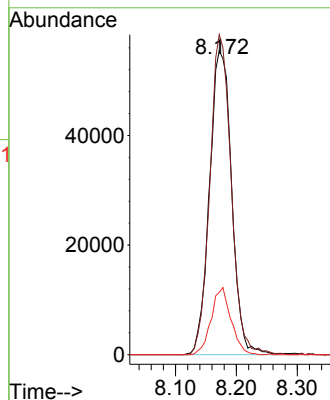
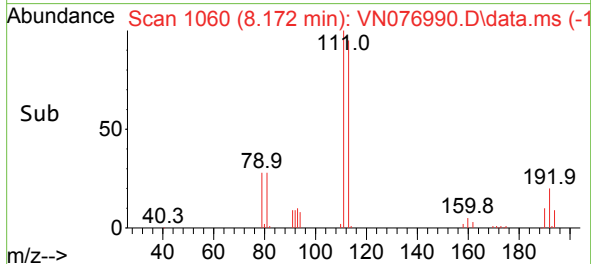


#35
Dibromofluoromethane
Concen: 49.132 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

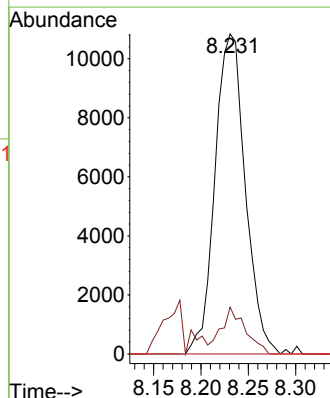
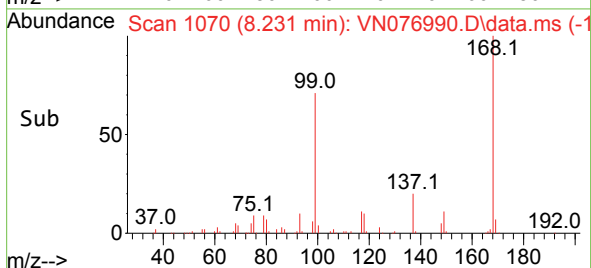
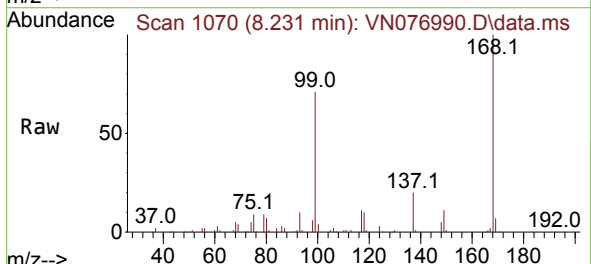


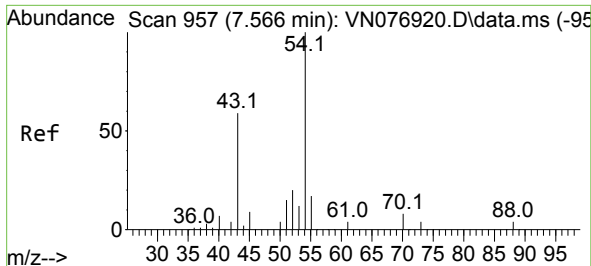
Tgt Ion:113 Resp: 140075
Ion Ratio Lower Upper
113 100
111 101.5 81.8 122.8
192 19.8 13.9 20.9



#36
1,1-Dichloropropene
Concen: 5.481 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion: 75 Resp: 24166
Ion Ratio Lower Upper
75 100
110 11.7 18.9 56.9#
77 0.0 24.9 37.3#

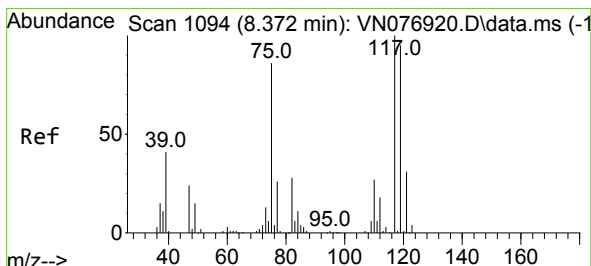
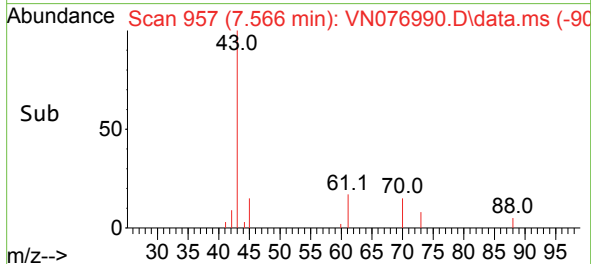
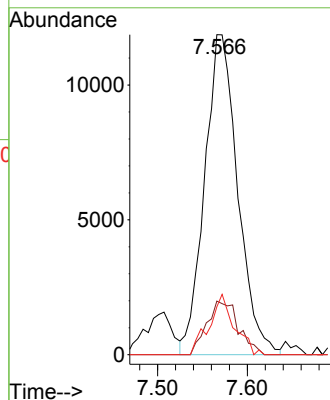
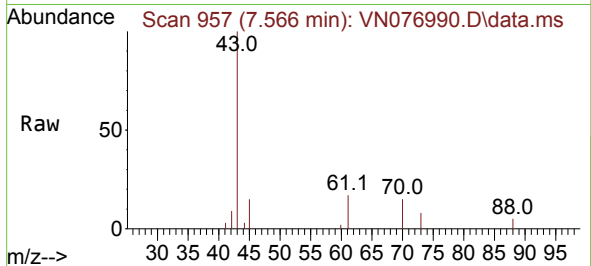




#37
Ethyl Acetate
Concen: 8.634 ug/l
RT: 7.566 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

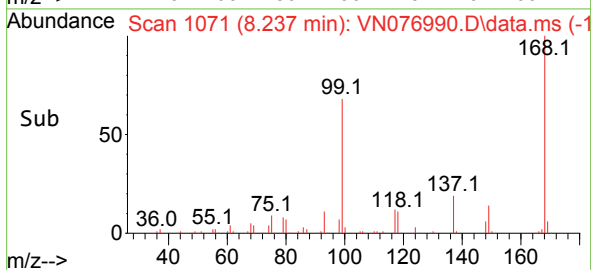
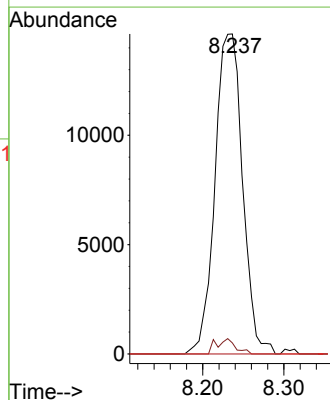
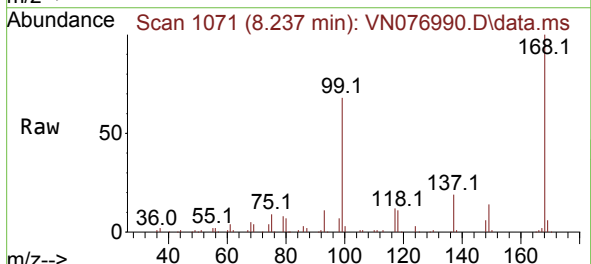
Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

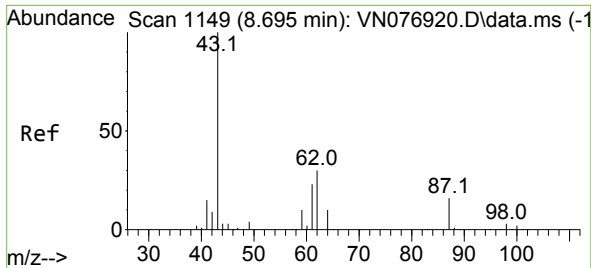
Tgt Ion:	43	Resp:	30444
Ion	Ratio	Lower	Upper
43	100		
61	16.0	13.5	20.3
70	14.3	11.0	16.6



#38
Carbon Tetrachloride
Concen: 6.699 ug/l
RT: 8.237 min Scan# 1071
Delta R.T. -0.135 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion:	117	Resp:	34571
Ion	Ratio	Lower	Upper
117	100		
119	3.5	76.9	115.3#
121	0.0	23.2	34.8#

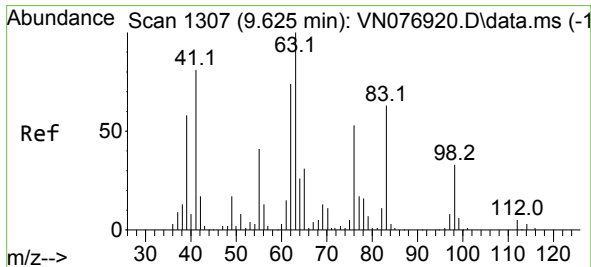
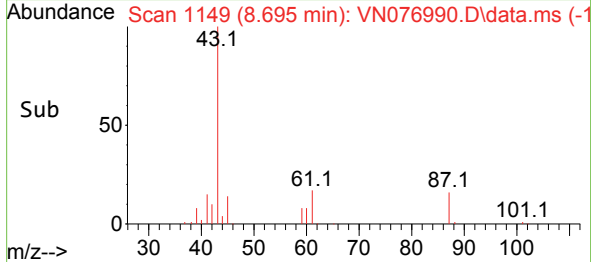
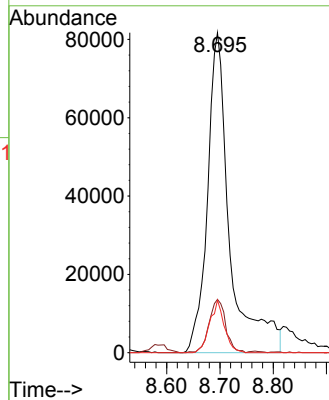
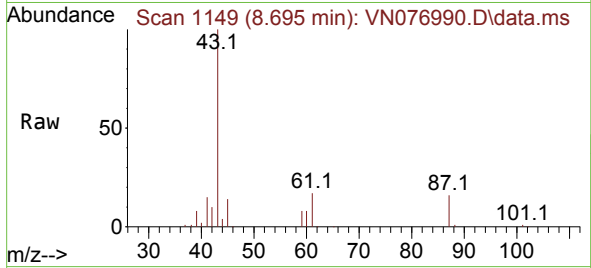




#43
Isopropyl Acetate
Concen: 38.152 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

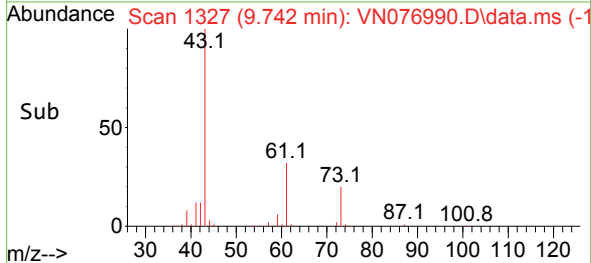
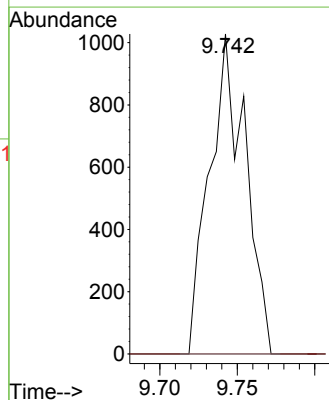
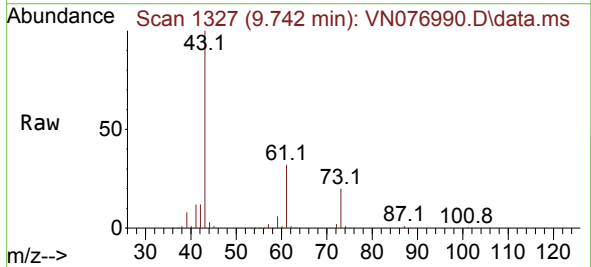
Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

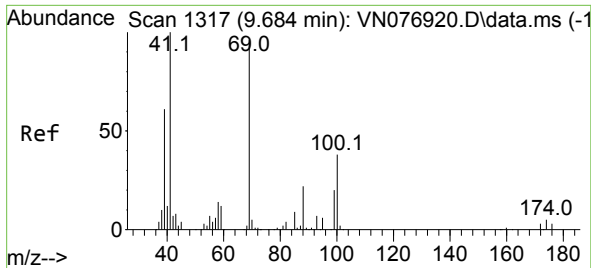
Tgt Ion: 43 Resp: 237488
Ion Ratio Lower Upper
43 100
61 12.4 26.2 39.2#
87 10.8 14.8 22.2#



#45
1,2-Dichloropropane
Concen: 0.515 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.117 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion: 63 Resp: 1648
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.6#

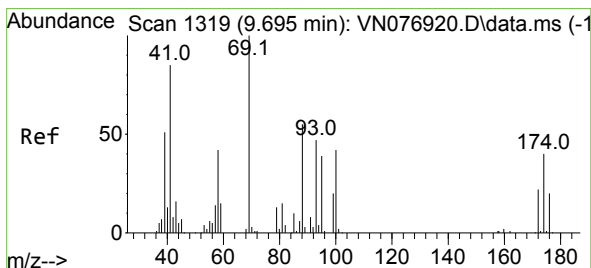
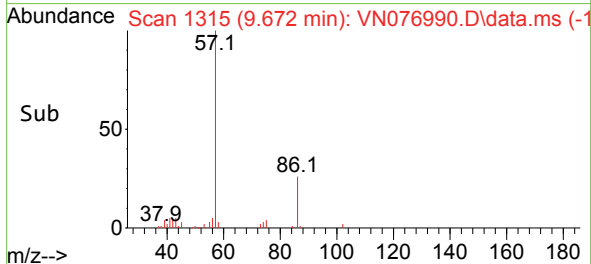
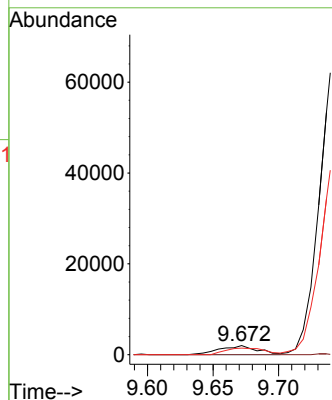
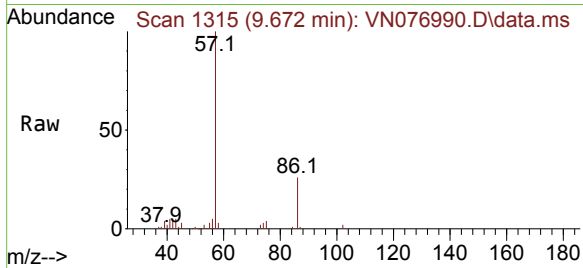




#48
Methyl methacrylate
Concen: 1.318 ug/l
RT: 9.672 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

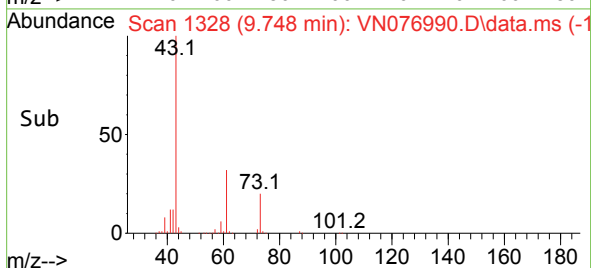
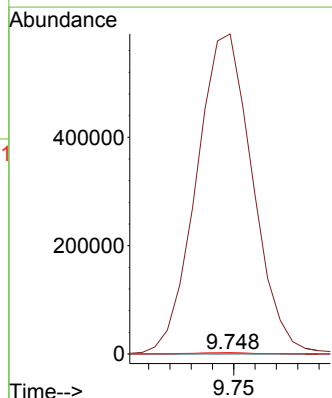
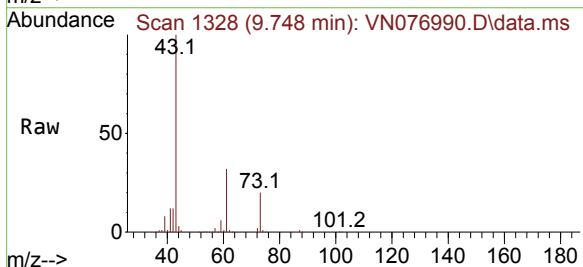
Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

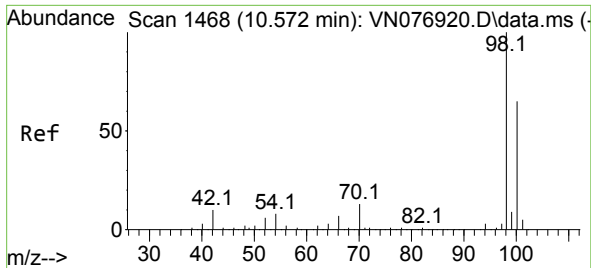
Tgt Ion: 41 Resp: 4019
Ion Ratio Lower Upper
41 100
69 0.0 92.6 139.0#
39 76.7 51.4 77.0



#49
1,4-Dioxane
Concen: 5.022 ug/l
RT: 9.748 min Scan# 1328
Delta R.T. 0.053 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion: 88 Resp: 290
Ion Ratio Lower Upper
88 100
43 374687.6 15.3 22.9#
58 1710.7 47.6 71.4#

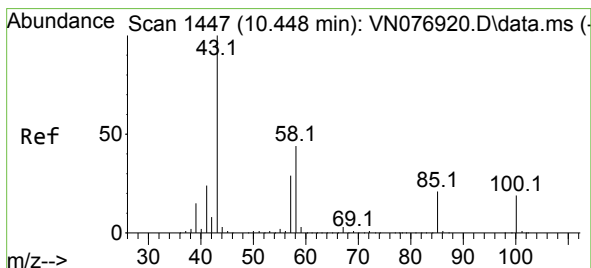
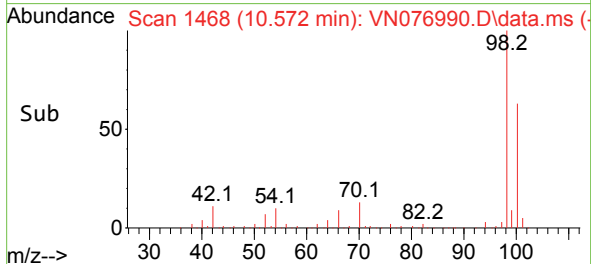
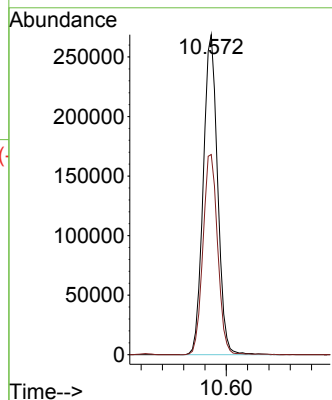
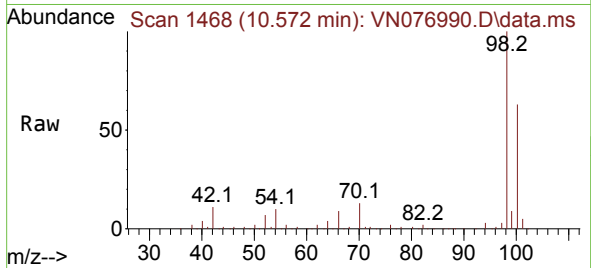




#50
Toluene-d8
Concen: 47.793 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

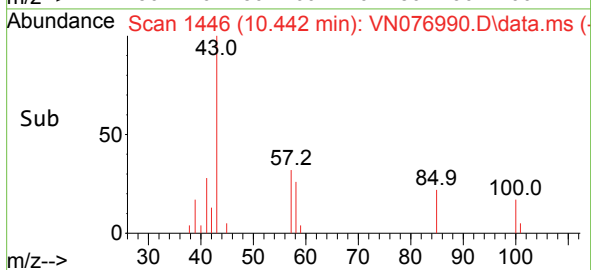
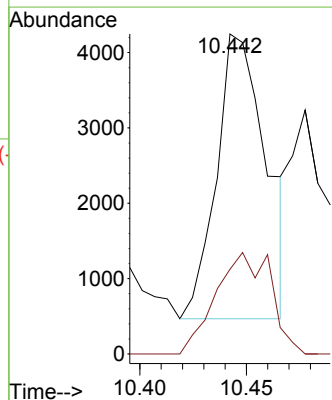
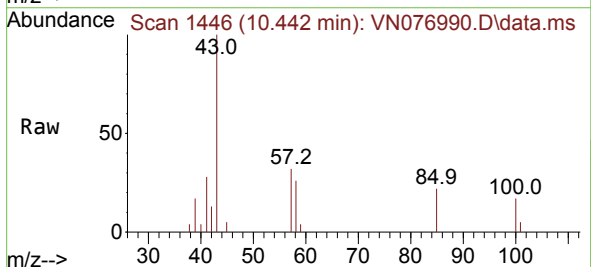
Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

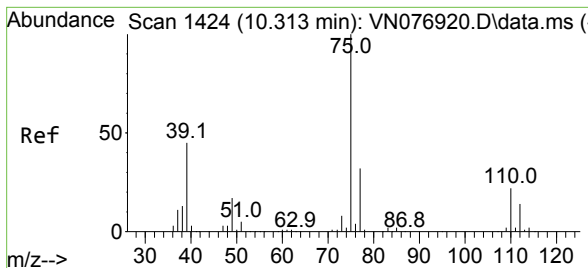
Tgt Ion: 98 Resp: 502177
Ion Ratio Lower Upper
98 100
100 64.0 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.633 ug/l
RT: 10.442 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion: 43 Resp: 6108
Ion Ratio Lower Upper
43 100
58 39.7 37.4 56.0

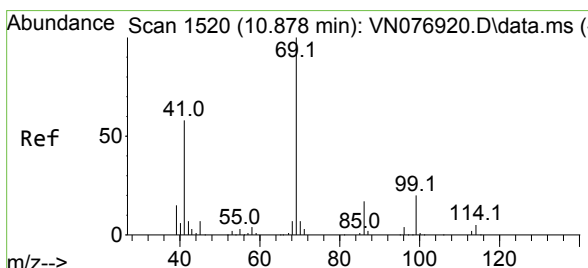
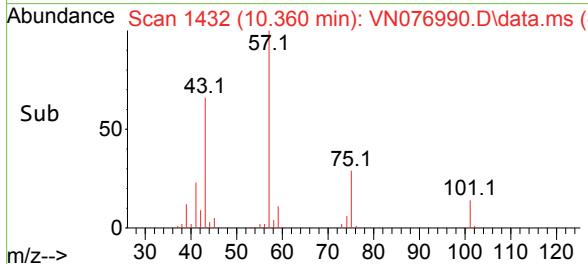
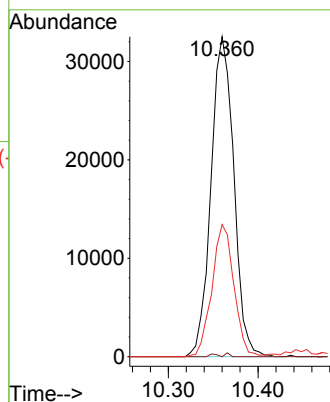
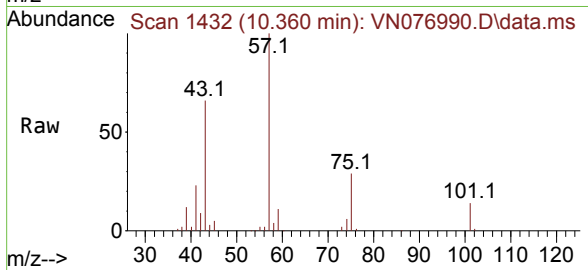




#54
 cis-1,3-Dichloropropene
 Concen: 11.063 ug/l
 RT: 10.360 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN076990.D
 Acq: 14 Mar 2023 18:22

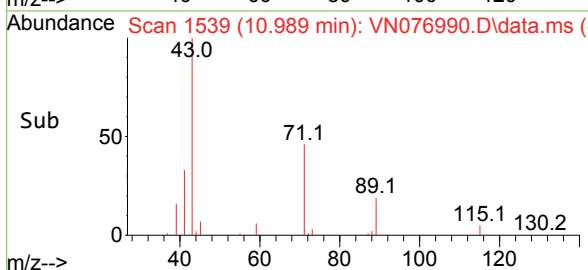
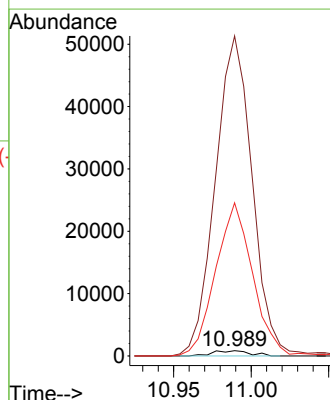
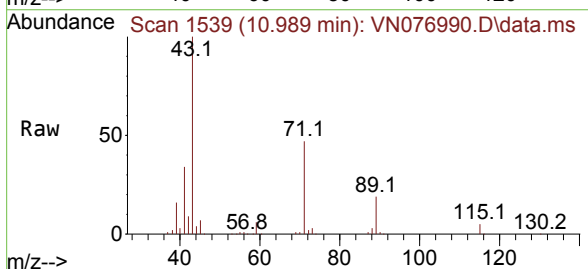
Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-SOIL

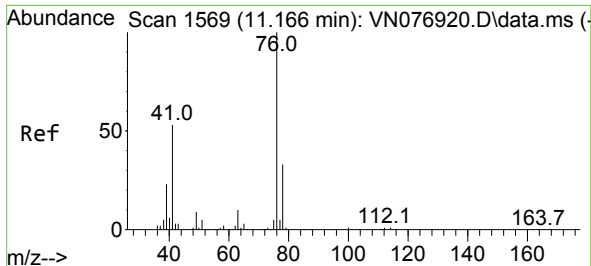
Tgt Ion: 75 Resp: 57387
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#
 39 41.3 29.7 44.5



#56
 Ethyl methacrylate
 Concen: 0.294 ug/l
 RT: 10.989 min Scan# 1539
 Delta R.T. 0.111 min
 Lab File: VN076990.D
 Acq: 14 Mar 2023 18:22

Tgt Ion: 69 Resp: 1389
 Ion Ratio Lower Upper
 69 100
 41 6137.2 38.0 57.0#
 39 2948.9 22.4 33.6#





#57

1,3-Dichloropropane

Concen: 1.195 ug/l

RT: 11.207 min Scan# 1576

Delta R.T. 0.041 min

Lab File: VN076990.D

Acq: 14 Mar 2023 18:22

Instrument :

MSVOA_N

ClientSampleId :

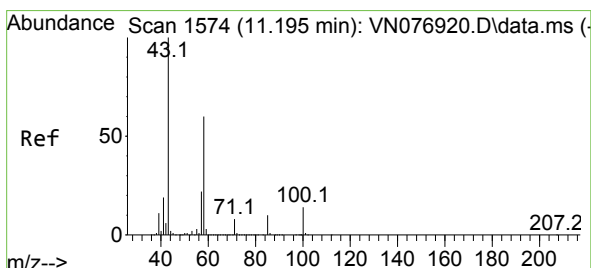
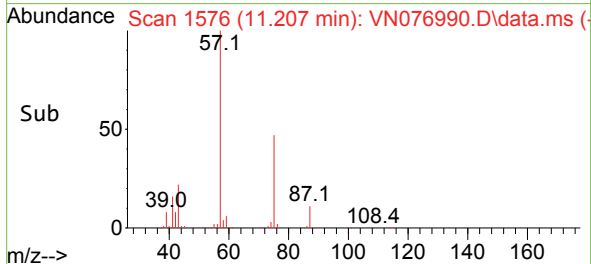
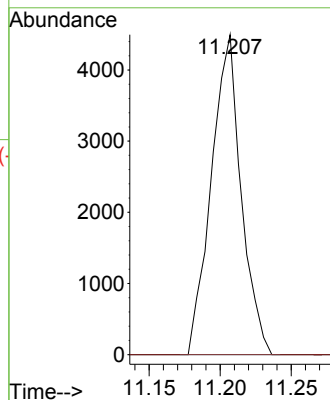
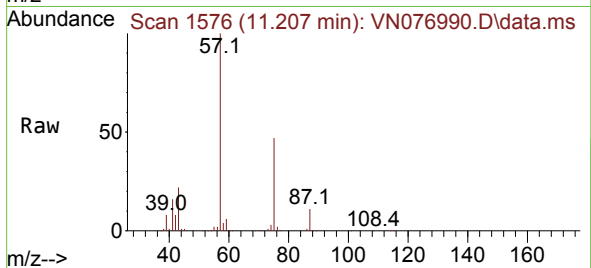
COMP-SOIL

Tgt Ion: 76 Resp: 6560

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 31.849 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.006 min

Lab File: VN076990.D

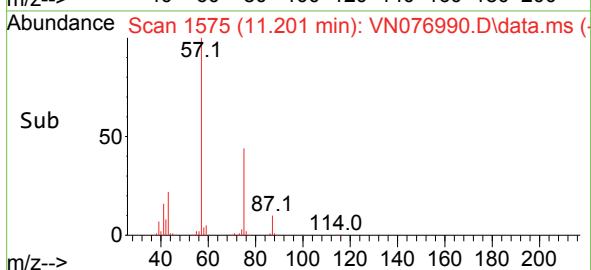
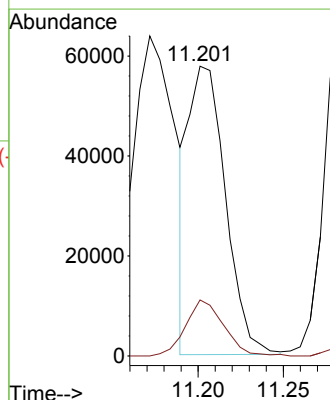
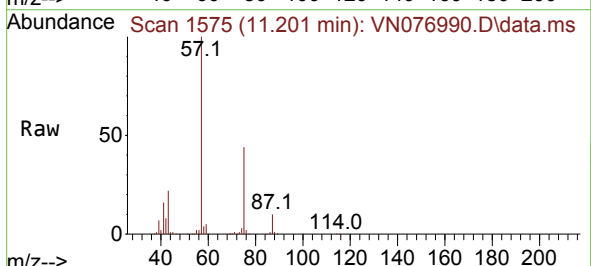
Acq: 14 Mar 2023 18:22

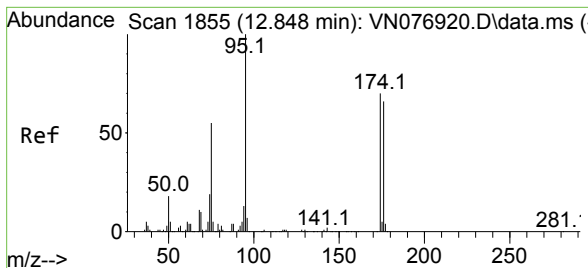
Tgt Ion: 43 Resp: 86834

Ion Ratio Lower Upper

43 100

58 20.1 32.6 98.0#

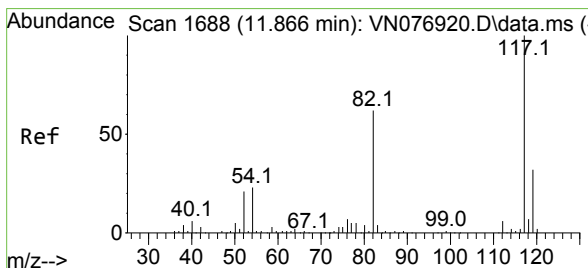
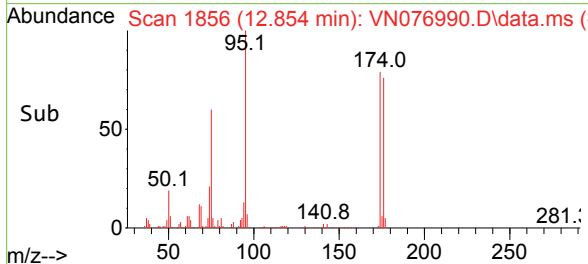
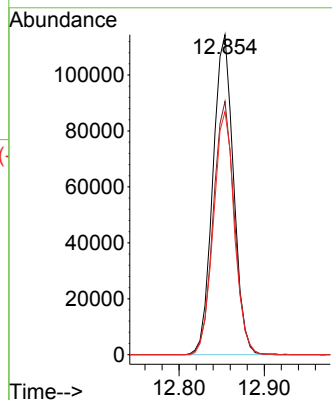
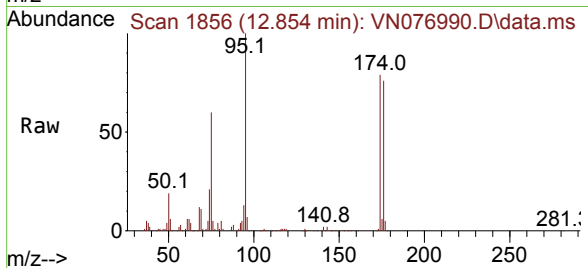




#62
4-Bromofluorobenzene
Concen: 50.061 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

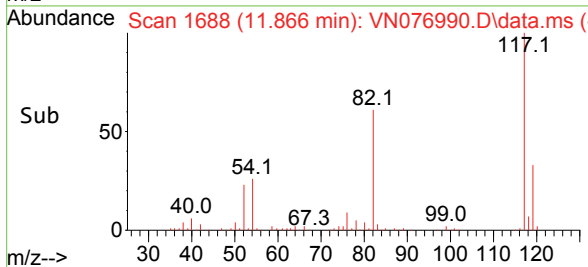
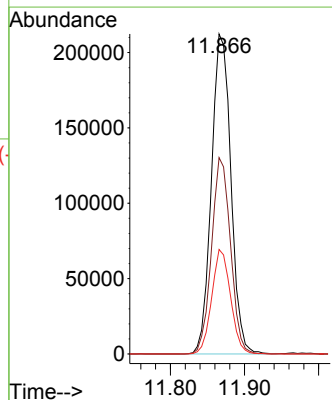
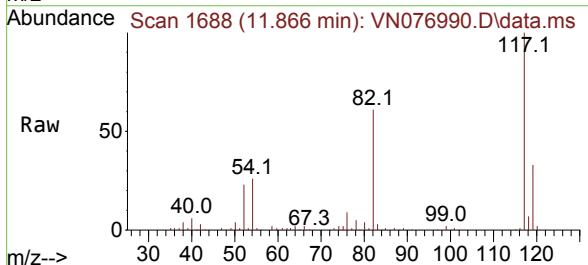
Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

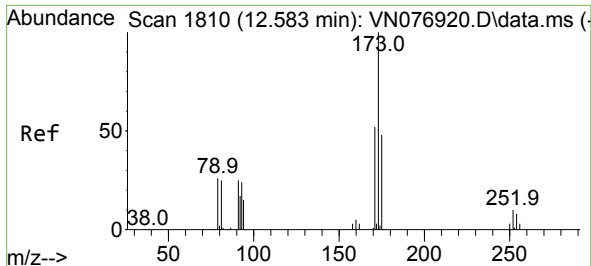
Tgt Ion: 95 Resp: 192394
Ion Ratio Lower Upper
95 100
174 80.8 0.0 162.4
176 77.1 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion: 117 Resp: 387072
Ion Ratio Lower Upper
117 100
82 61.4 43.5 65.3
119 32.6 25.5 38.3

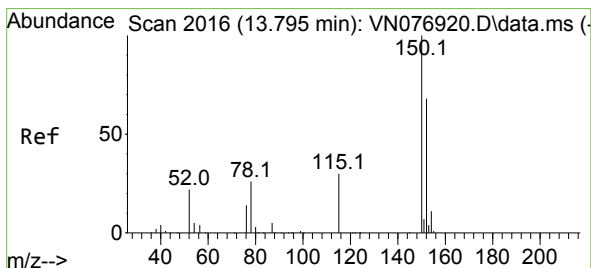
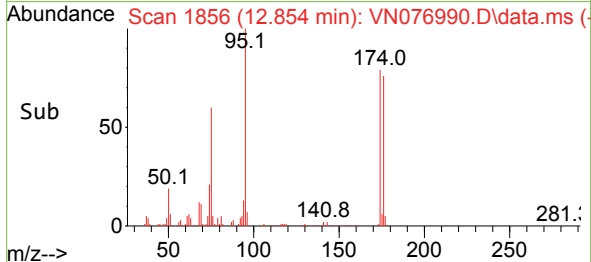
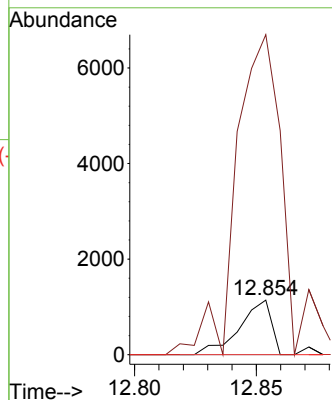
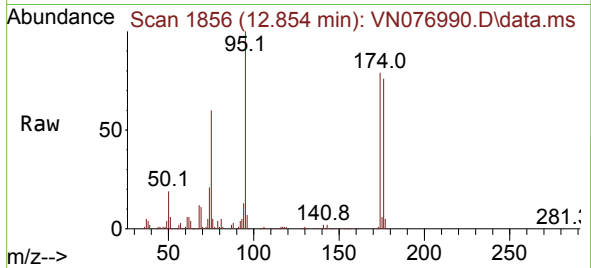




#71
Bromoform
Concen: 0.423 ug/l
RT: 12.854 min Scan# 1810
Delta R.T. 0.271 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

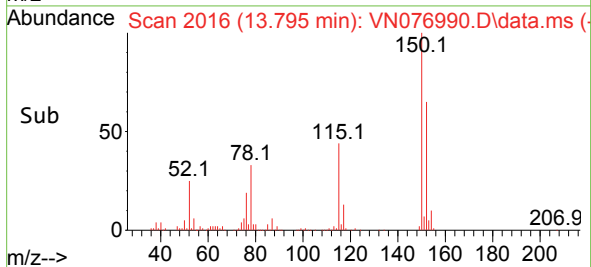
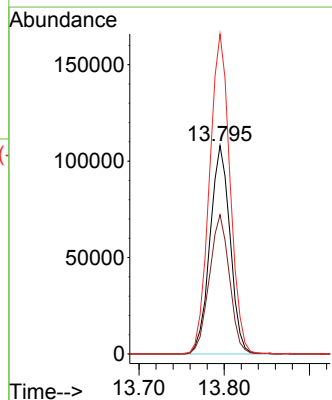
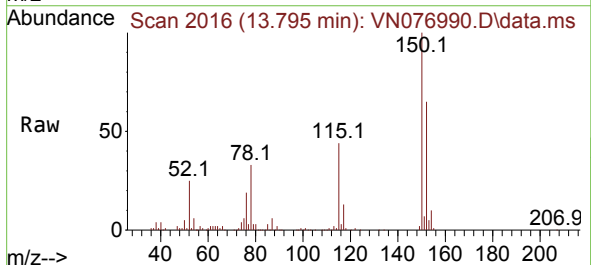
Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

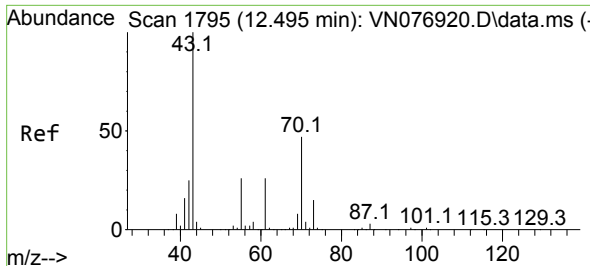
Tgt Ion:173 Resp: 1037
Ion Ratio Lower Upper
173 100
175 802.2 24.9 74.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion:152 Resp: 176954
Ion Ratio Lower Upper
152 100
115 67.0 30.3 90.9
150 157.1 0.0 353.6

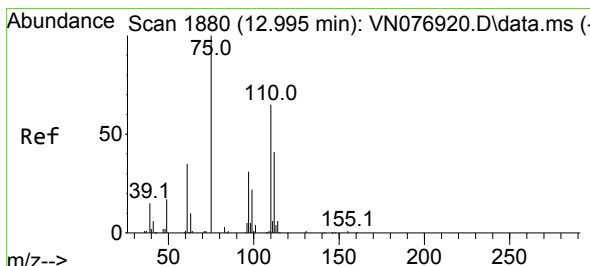
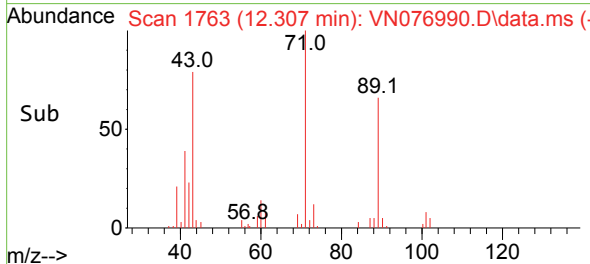
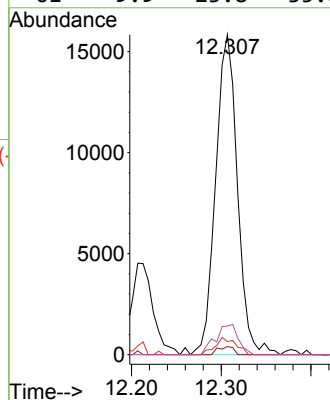
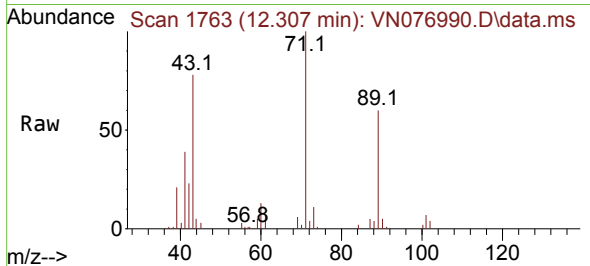




#74
N-amy1 acetate
Concen: 5.134 ug/l
RT: 12.307 min Scan# 11
Delta R.T. -0.188 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

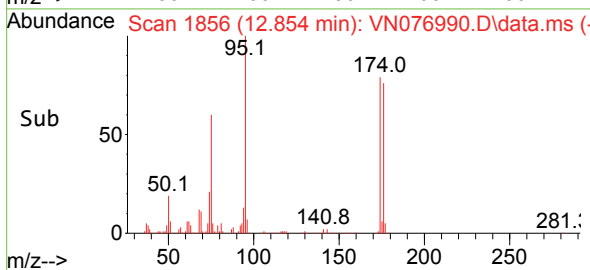
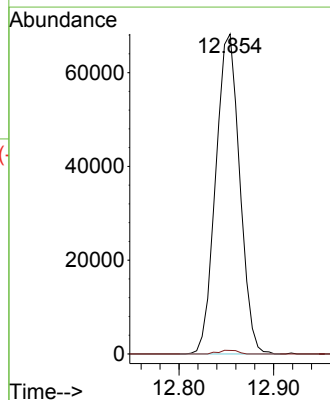
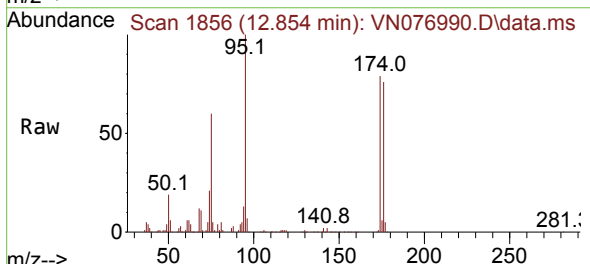
Instrument :
MSVOA_N
ClientSampleId :
COMP-SOIL

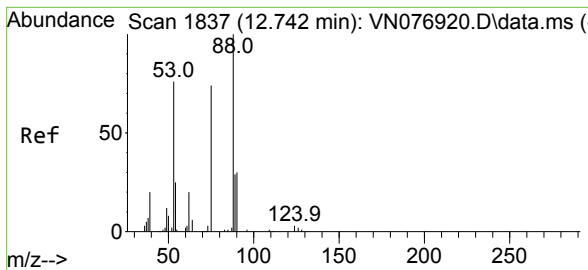
Tgt Ion: 43 Resp: 26801
Ion Ratio Lower Upper
43 100
70 1.8 46.8 70.2#
55 5.0 23.4 35.2#
61 9.9 23.8 35.8#



#76
1,2,3-Trichloropropane
Concen: 27.963 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076990.D
Acq: 14 Mar 2023 18:22

Tgt Ion: 75 Resp: 119965
Ion Ratio Lower Upper
75 100
77 0.9 93.8 281.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 91.341 ug/l
 RT: 12.854 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN076990.D
 Acq: 14 Mar 2023 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-SOIL

Tgt Ion: 75 Resp: 119965
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.0#
 89 0.0 39.5 59.3#

