

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061423\
 Data File : VY014160.D
 Acq On : 14 Jun 2023 17:50
 Operator : KP/MD
 Sample : 03164-01RE
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SOIL-001RE

Quant Time: Jun 15 01:44:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060923S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 09 18:07:13 2023
 Response via : Initial Calibration

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

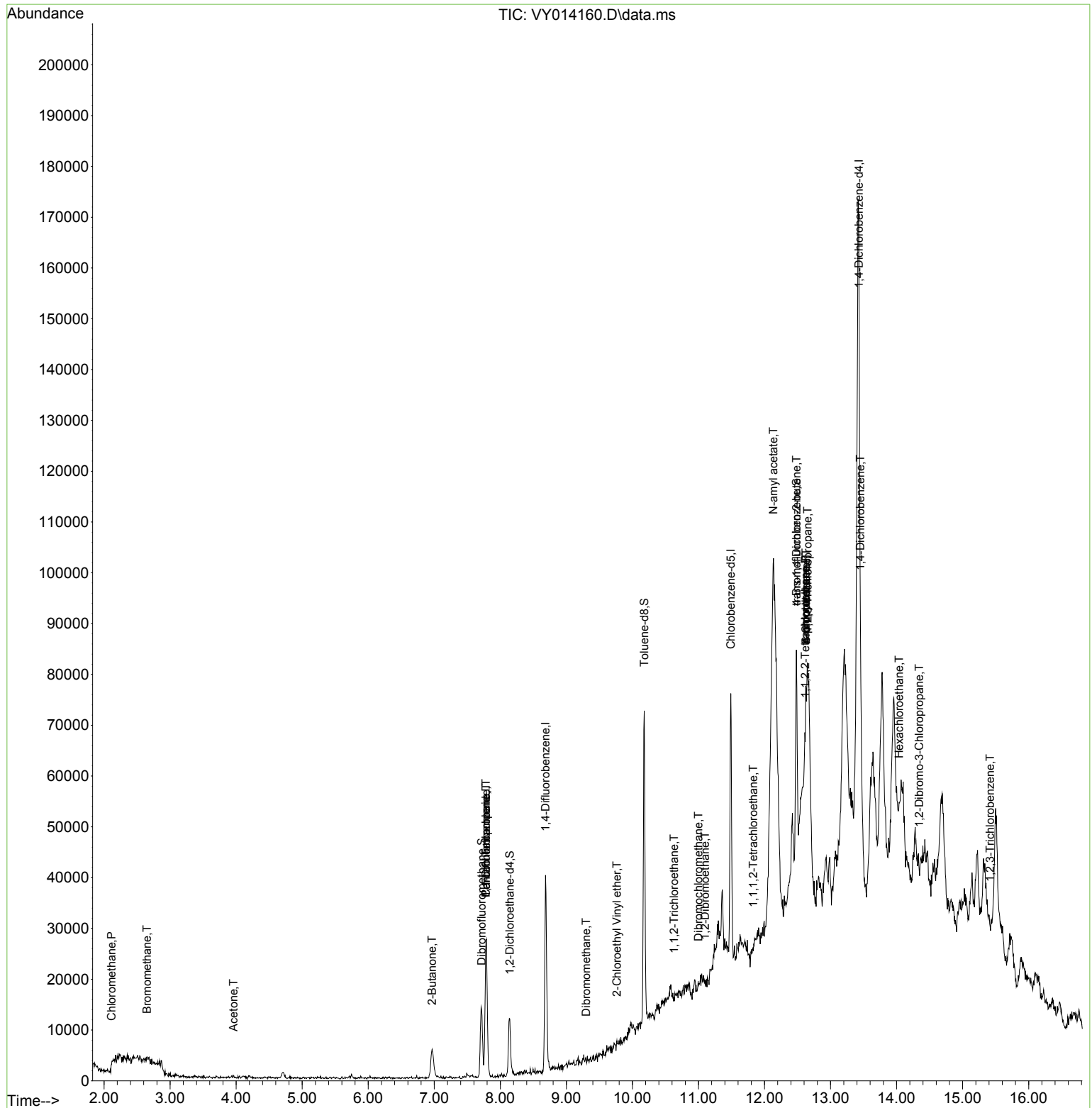
Internal Standards						
1) Pentafluorobenzene	7.783	168	21466	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	31556	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	27785	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	12724	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	9571	32.019	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	64.040%		
35) Dibromofluoromethane	7.716	113	9624	43.005	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	86.000%		
50) Toluene-d8	10.179	98	40358	48.237	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.480%		
62) 4-Bromofluorobenzene	12.483	95	12351	41.557	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	83.120%		
Target Compounds						Qvalue
3) Chloromethane	2.113	50	369	1.216	ug/l #	53
5) Bromomethane	2.650	94	335	1.377	ug/l #	70
11) Tert butyl alcohol	4.948	59	28	Below Cal	#	89
13) Acrolein	3.717	56	19	Below Cal	#	33
16) Acetone	3.960	43	463	5.139	ug/l #	46
20) Methylene Chloride	4.704	84	897	Below Cal	#	58
25) 2-Butanone	6.966	43	260	2.344	ug/l #	49
36) 1,1-Dichloropropene	7.783	75	1498	4.294	ug/l #	53
38) Carbon Tetrachloride	7.783	117	2241	5.566	ug/l #	12
46) Dibromomethane	9.301	93	213	1.313	ug/l #	2
55) 1,1,2-Trichloroethane	10.630	97	371	1.724	ug/l #	18
58) 2-Chloroethyl Vinyl ether	9.764	63	24	28.780	ug/l #	1
60) Dibromochloromethane	11.002	129	288	1.046	ug/l	60
61) 1,2-Dibromoethane	11.099	107	433	2.039	ug/l	85
66) 1,1,1,2-Tetrachloroethane	11.831	131	572	2.178	ug/l	60
74) N-amyl acetate	12.136	43	1171	3.807	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.617	83	220	1.014	ug/l #	94
76) 1,2,3-Trichloropropane	12.654	75	223	1.336	ug/l #	100
77) Bromobenzene	12.630	156	278	1.090	ug/l #	44
78) n-propylbenzene	12.630	91	2366	1.996	ug/l	89
81) trans-1,4-Dichloro-2-b...	12.483	75	6203	80.321	ug/l #	12
82) 4-Chlorotoluene	12.630	91	1396	1.931	ug/l	72
88) 1,4-Dichlorobenzene	13.453	146	590	1.202	ug/l #	50
90) Hexachloroethane	14.038	117	290	1.656	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	14.343	75	65	1.574	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.416	180	391	1.561	ug/l #	50

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

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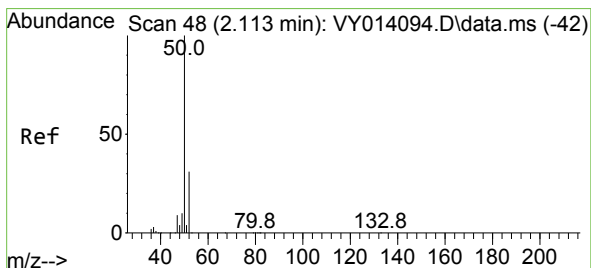
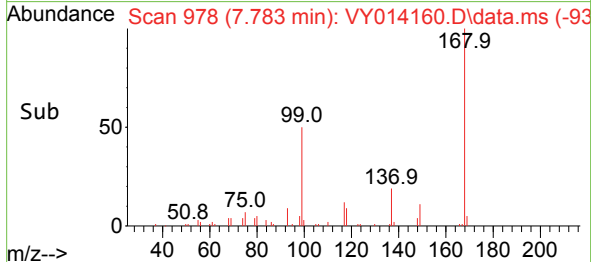
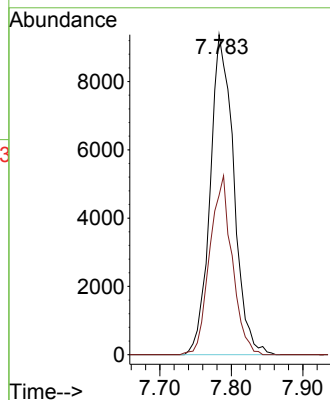
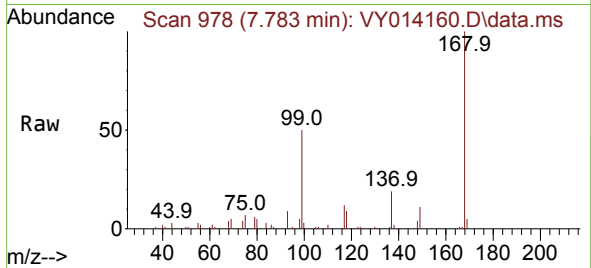




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

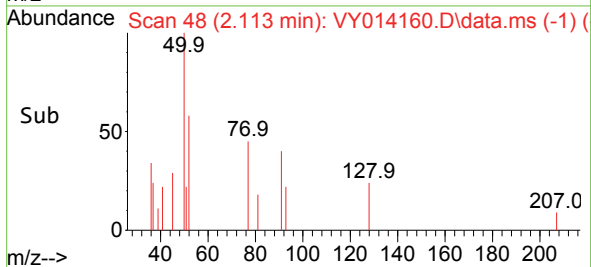
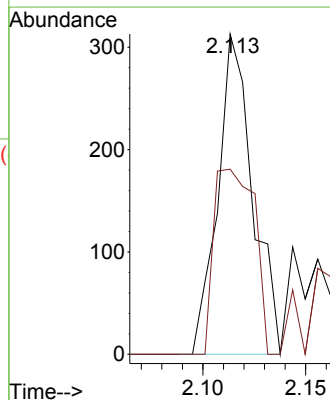
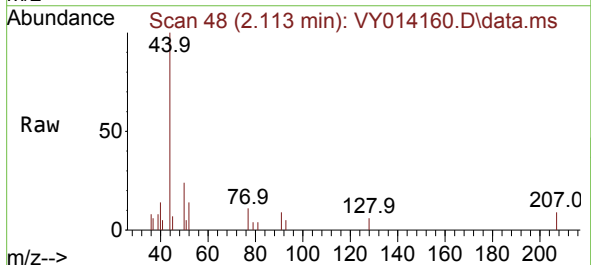
Instrument :
MSVOA_Y
ClientSampleId :
SOIL-001RE

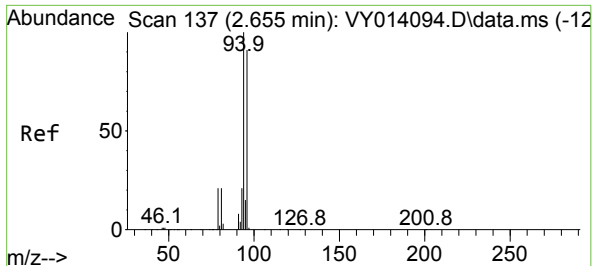
Tgt Ion:168 Resp: 21466
Ion Ratio Lower Upper
168 100
99 49.8 43.4 65.0



#3
Chloromethane
Concen: 1.216 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.000 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

Tgt Ion: 50 Resp: 369
Ion Ratio Lower Upper
50 100
52 57.8 25.4 38.2#

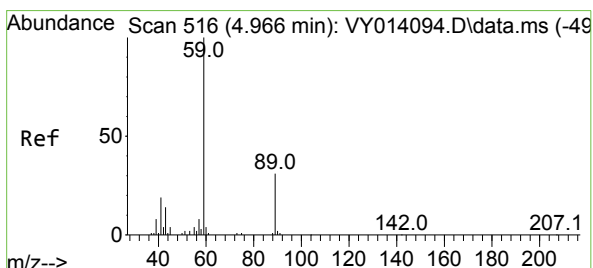
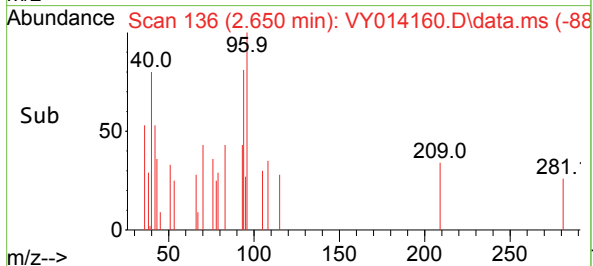
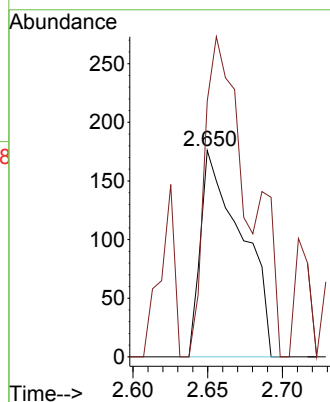
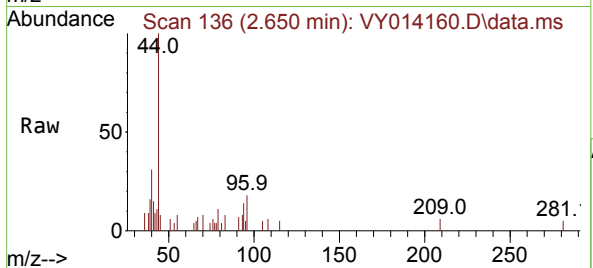




#5
Bromomethane
Concen: 1.377 ug/l
RT: 2.650 min Scan# 11
Delta R.T. -0.005 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

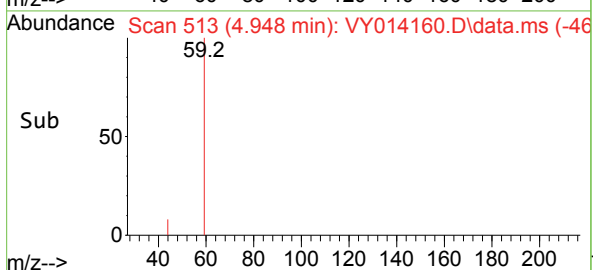
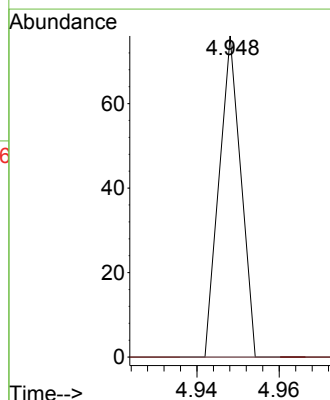
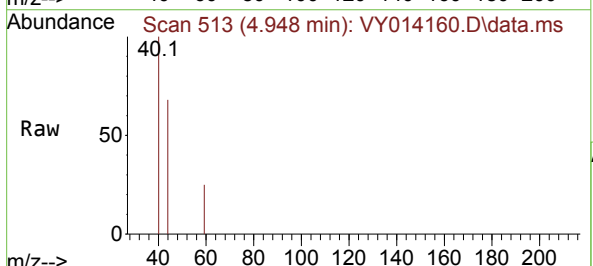
Instrument :
MSVOA_Y
ClientSampleId :
SOIL-001RE

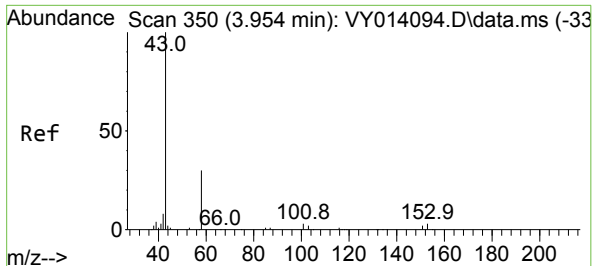
Tgt Ion: 94 Resp: 335
Ion Ratio Lower Upper
94 100
96 123.9 75.8 113.6#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.948 min Scan# 513
Delta R.T. -0.018 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

Tgt Ion: 59 Resp: 28
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#

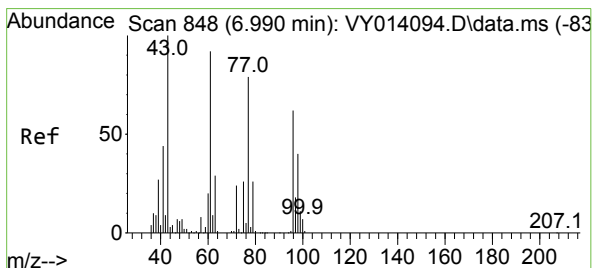
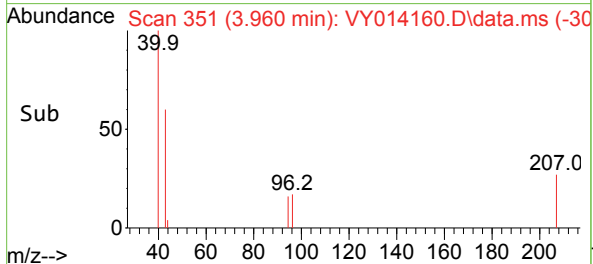
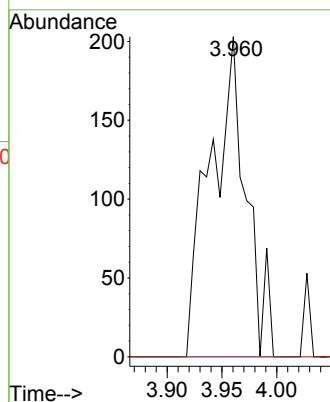
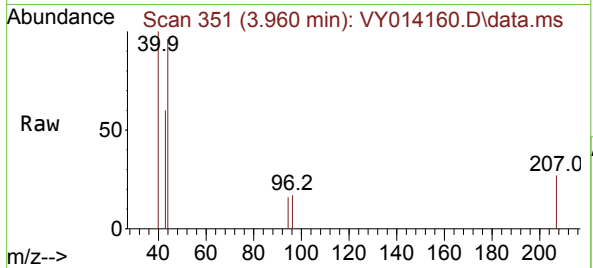




#16
Acetone
Concen: 5.139 ug/l
RT: 3.960 min Scan# 311
Delta R.T. 0.006 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

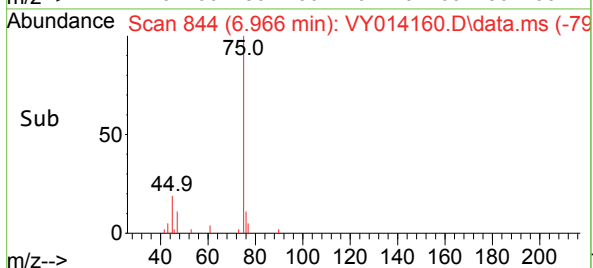
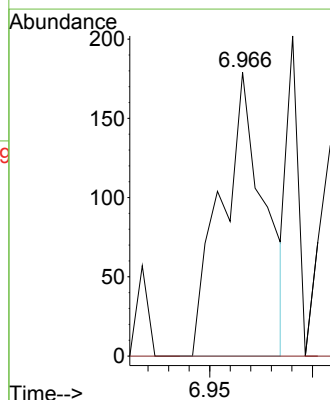
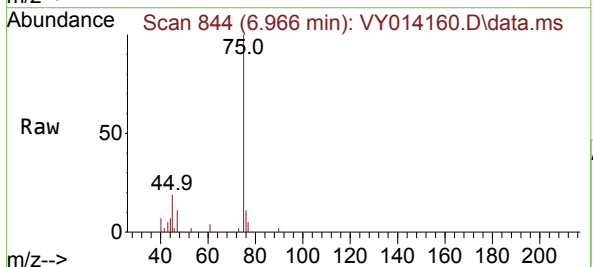
Instrument :
MSVOA_Y
ClientSampleId :
SOIL-001RE

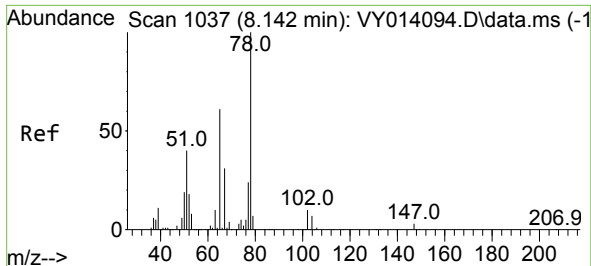
Tgt Ion: 43 Resp: 463
Ion Ratio Lower Upper
43 100
58 0.0 22.7 34.1#



#25
2-Butanone
Concen: 2.344 ug/l
RT: 6.966 min Scan# 844
Delta R.T. -0.024 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

Tgt Ion: 43 Resp: 260
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#

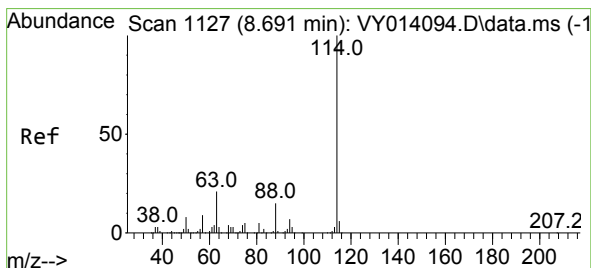
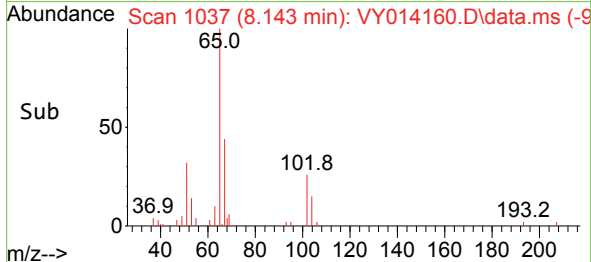
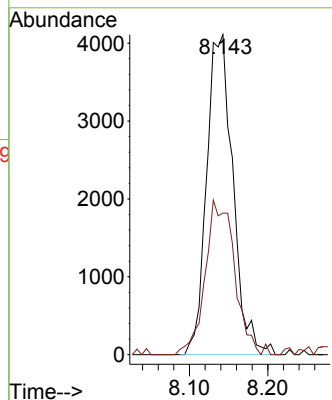
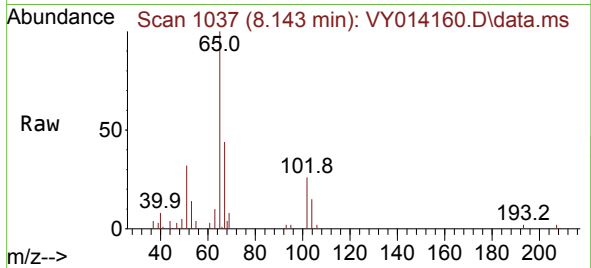




#33
 1,2-Dichloroethane-d4
 Concen: 32.019 ug/l
 RT: 8.143 min Scan# 1037
 Delta R.T. 0.001 min
 Lab File: VY014160.D
 Acq: 14 Jun 2023 17:50

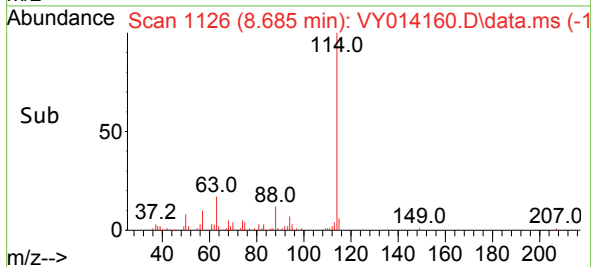
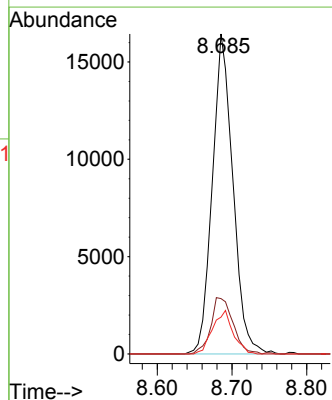
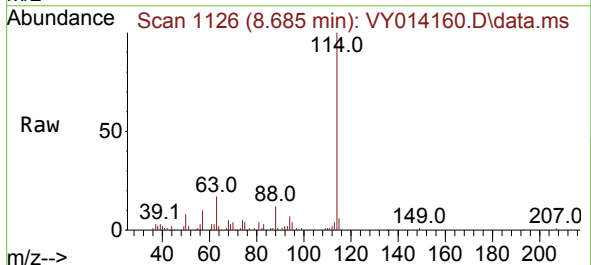
Instrument :
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 ClientSampleId :
 SOIL-001RE

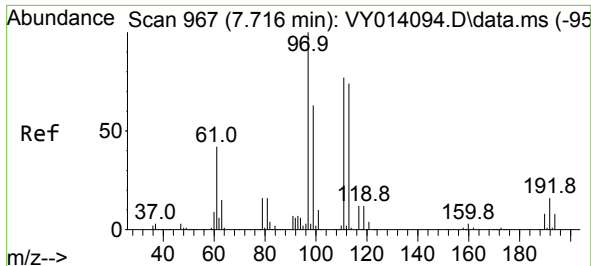
Tgt Ion: 65 Resp: 9571
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. -0.006 min
 Lab File: VY014160.D
 Acq: 14 Jun 2023 17:50

Tgt Ion: 114 Resp: 31556
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 42.4
 88 11.5 0.0 30.6

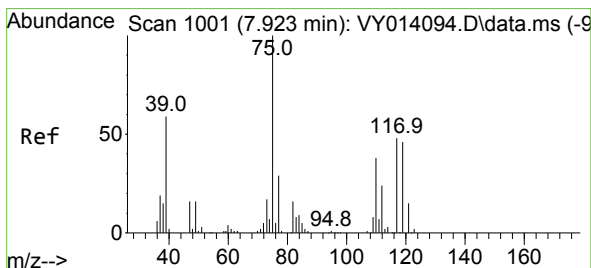
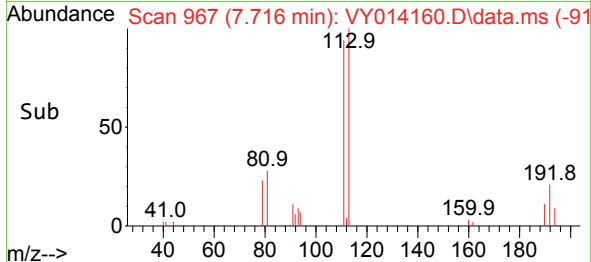
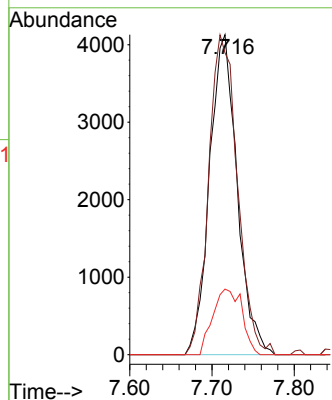
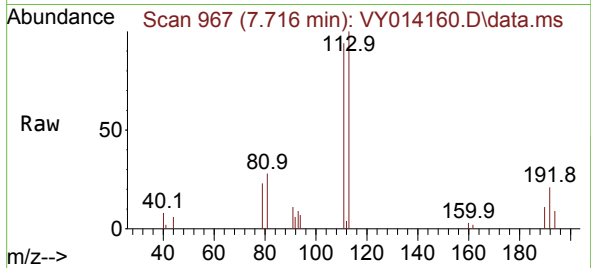




#35
Dibromofluoromethane
Concen: 43.005 ug/l
RT: 7.716 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

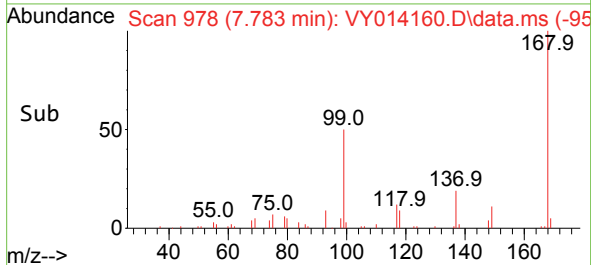
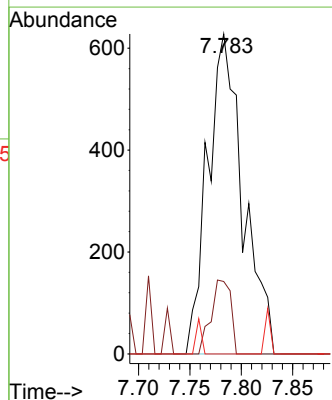
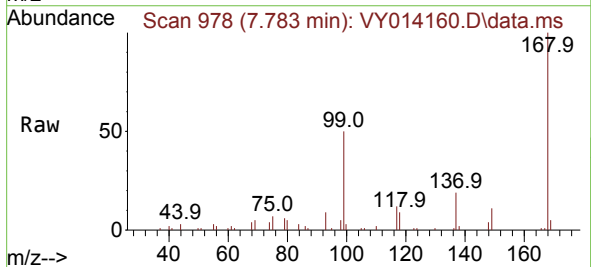
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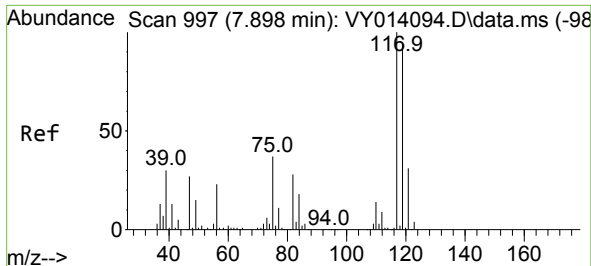
Tgt Ion:113 Resp: 9624
Ion Ratio Lower Upper
113 100
111 103.9 81.3 121.9
192 21.7 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.294 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.140 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

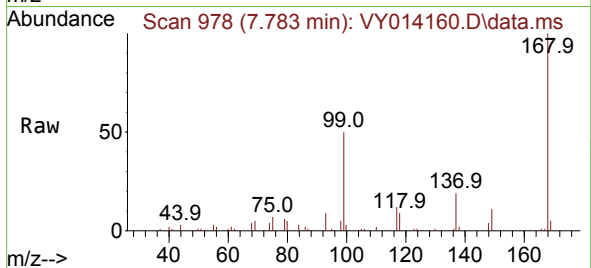
Tgt Ion: 75 Resp: 1498
Ion Ratio Lower Upper
75 100
110 12.9 17.8 53.5#
77 0.0 24.4 36.6#



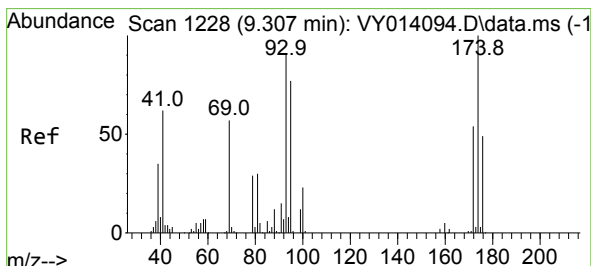
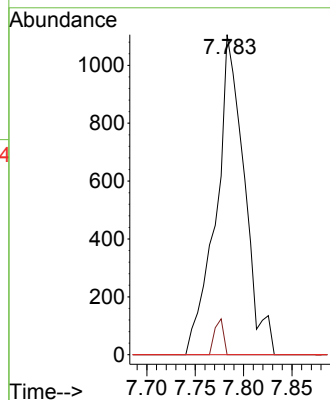
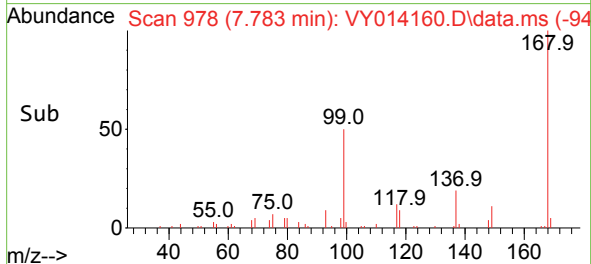


#38
Carbon Tetrachloride
Concen: 5.566 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.115 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

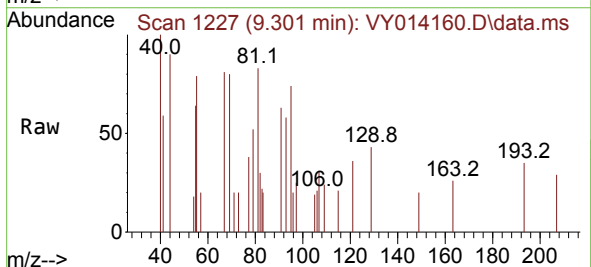
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SOIL-001RE



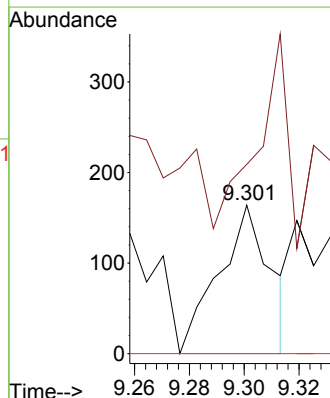
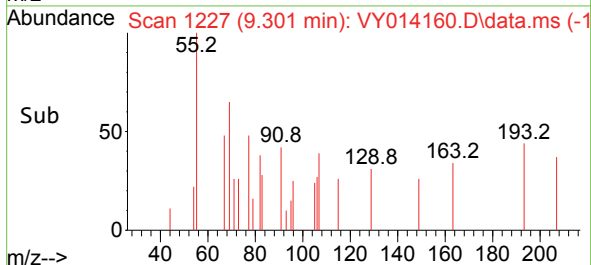
Tgt Ion:117 Resp: 2241
Ion Ratio Lower Upper
117 100
119 0.0 76.4 114.6#
121 0.0 25.8 38.6#

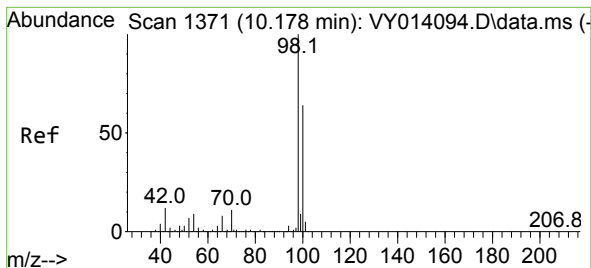


#46
Dibromomethane
Concen: 1.313 ug/l
RT: 9.301 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50



Tgt Ion: 93 Resp: 213
Ion Ratio Lower Upper
93 100
95 0.0 66.6 100.0#
174 0.0 84.8 127.2#





#50

Toluene-d8

Concen: 48.237 ug/l

RT: 10.179 min Scan# 1

Delta R.T. 0.001 min

Lab File: VY014160.D

Acq: 14 Jun 2023 17:50

Instrument :

MSVOA_Y

ClientSampleId :

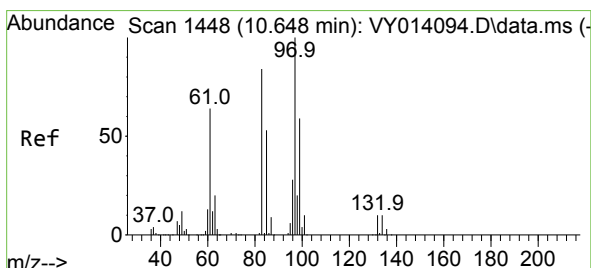
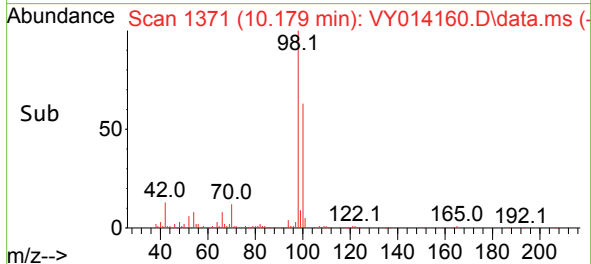
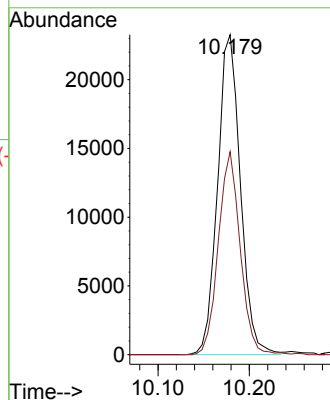
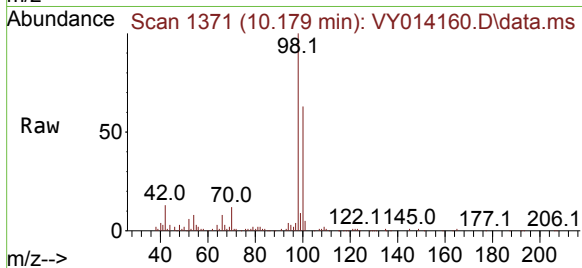
SOIL-001RE

Tgt Ion: 98 Resp: 40358

Ion Ratio Lower Upper

98 100

100 61.0 50.1 75.1



#55

1,1,2-Trichloroethane

Concen: 1.724 ug/l

RT: 10.630 min Scan# 1445

Delta R.T. -0.018 min

Lab File: VY014160.D

Acq: 14 Jun 2023 17:50

Tgt Ion: 97 Resp: 371

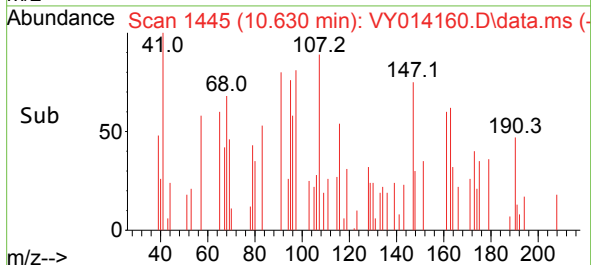
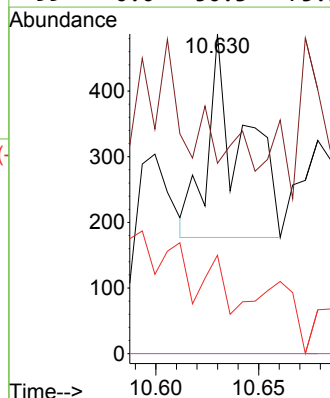
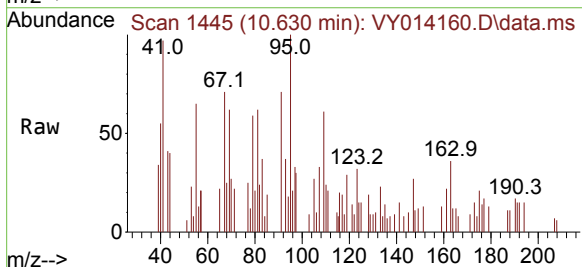
Ion Ratio Lower Upper

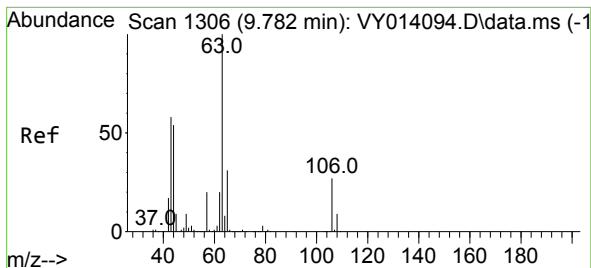
97 100

83 0.0 72.0 108.0#

85 12.9 45.4 68.0#

99 0.0 50.3 75.5#

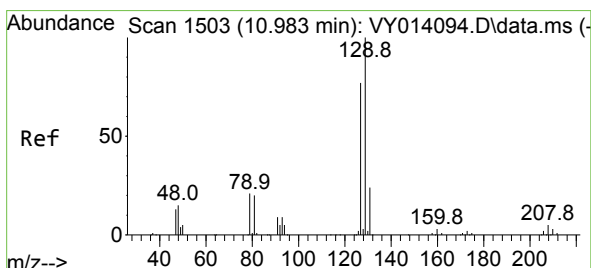
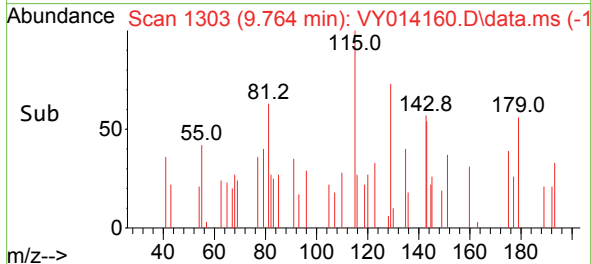
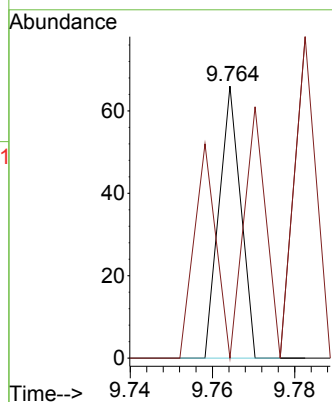
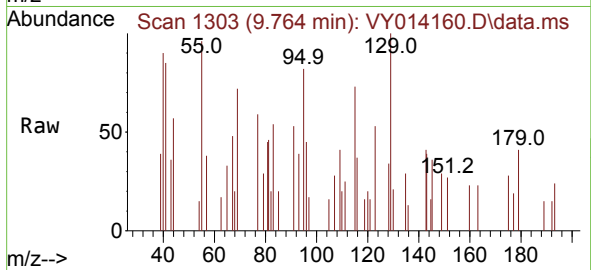




#58
2-Chloroethyl Vinyl ether
Concen: 28.780 ug/l
RT: 9.764 min Scan# 11
Delta R.T. -0.018 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

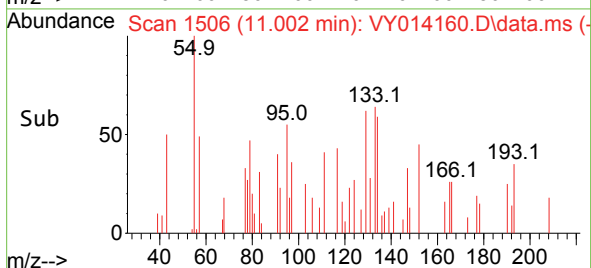
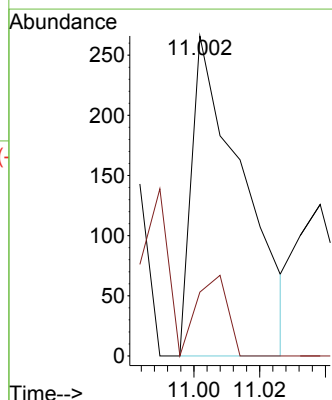
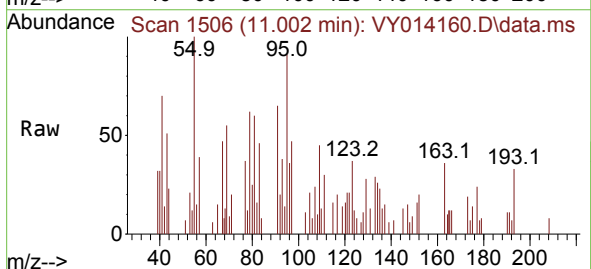
Instrument :
MSVOA_Y
ClientSampleId :
SOIL-001RE

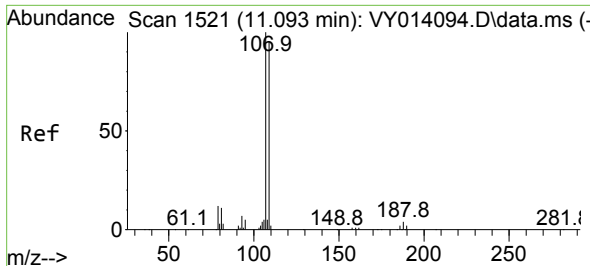
Tgt Ion: 63 Resp: 24
Ion Ratio Lower Upper
63 100
106 79.2 21.2 31.8#



#60
Dibromochloromethane
Concen: 1.046 ug/l
RT: 11.002 min Scan# 1506
Delta R.T. 0.019 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

Tgt Ion: 129 Resp: 288
Ion Ratio Lower Upper
129 100
127 42.7 38.5 115.5

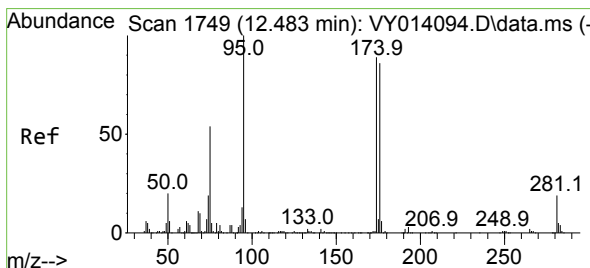
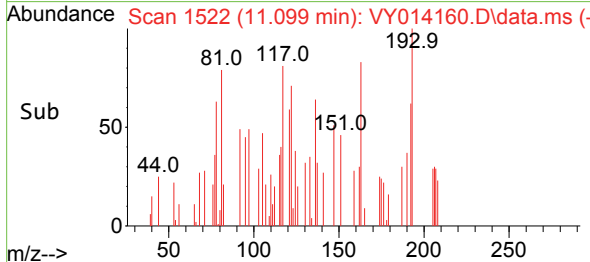
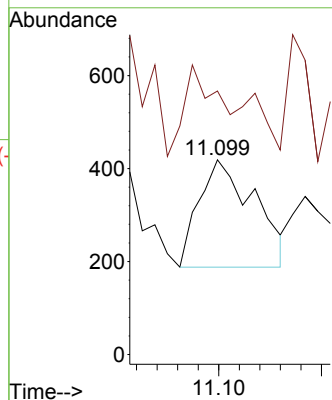
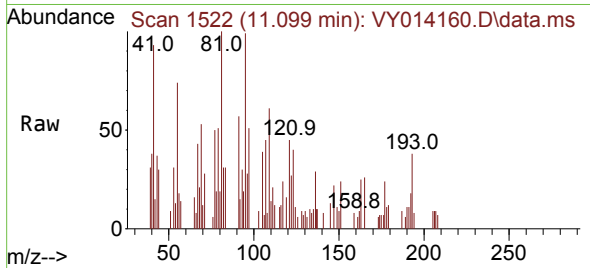




#61
1,2-Dibromoethane
Concen: 2.039 ug/l
RT: 11.099 min Scan# 1521
Delta R.T. 0.006 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

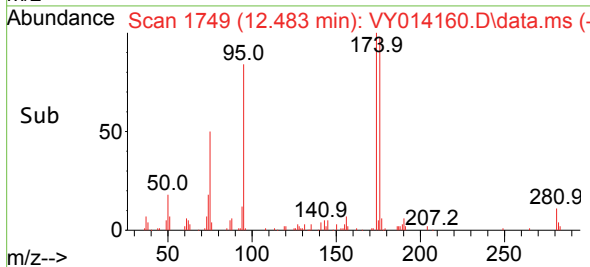
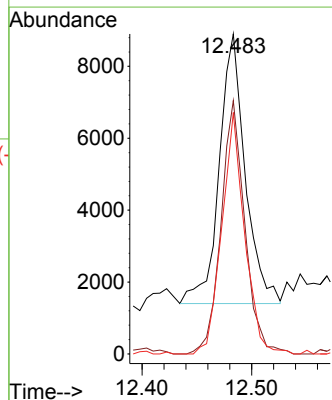
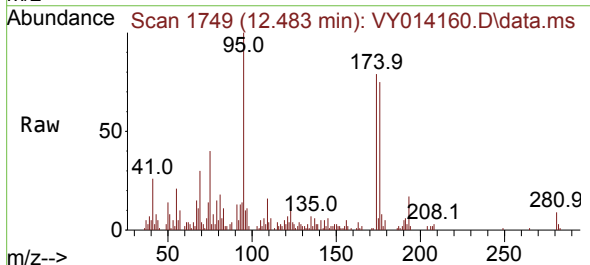
Instrument :
MSVOA_Y
ClientSampleId :
SOIL-001RE

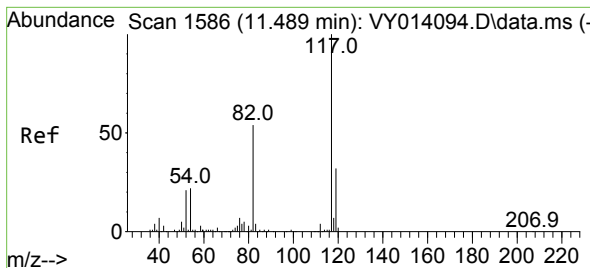
Tgt Ion:107 Resp: 433
Ion Ratio Lower Upper
107 100
109 80.1 75.6 113.4



#62
4-Bromofluorobenzene
Concen: 41.557 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

Tgt Ion: 95 Resp: 12351
Ion Ratio Lower Upper
95 100
174 86.0 0.0 178.2
176 78.6 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.001 min

Lab File: VY014160.D

Acq: 14 Jun 2023 17:50

Instrument :

MSVOA_Y

ClientSampleId :

SOIL-001RE

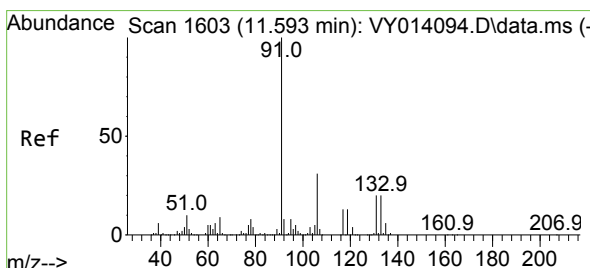
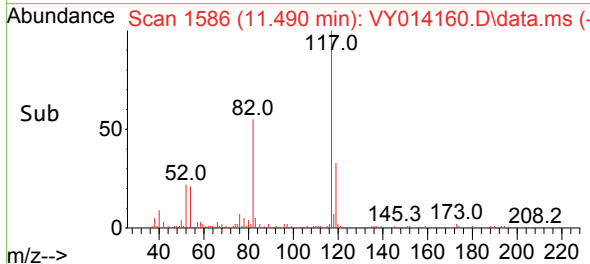
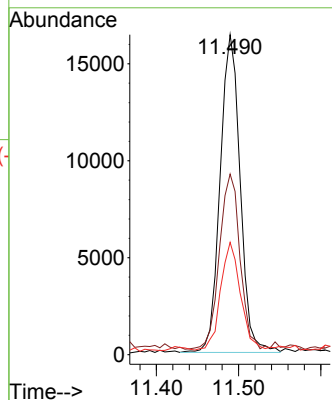
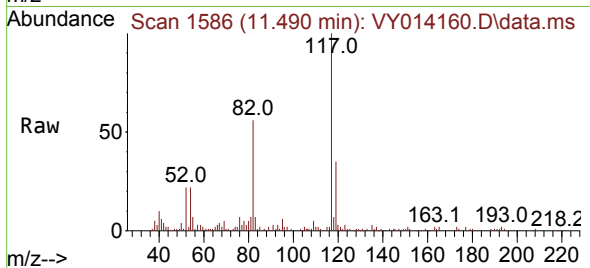
Tgt Ion:117 Resp: 27785

Ion Ratio Lower Upper

117 100

82 54.5 43.4 65.0

119 33.1 26.3 39.5



#66

1,1,1,2-Tetrachloroethane

Concen: 2.178 ug/l

RT: 11.831 min Scan# 1642

Delta R.T. 0.238 min

Lab File: VY014160.D

Acq: 14 Jun 2023 17:50

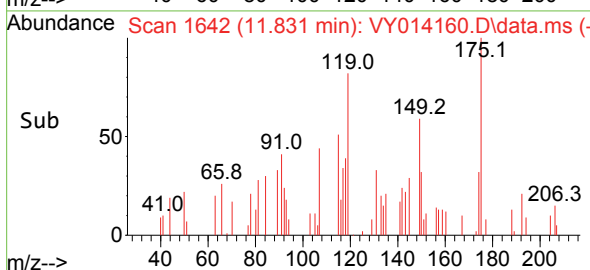
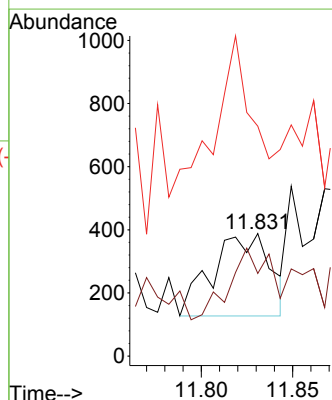
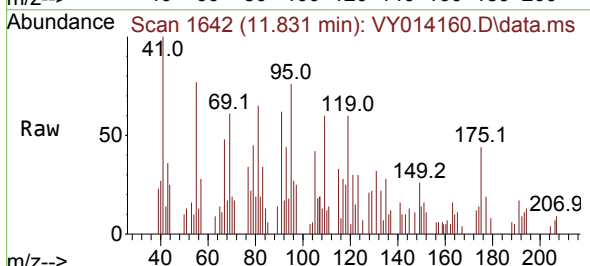
Tgt Ion:131 Resp: 572

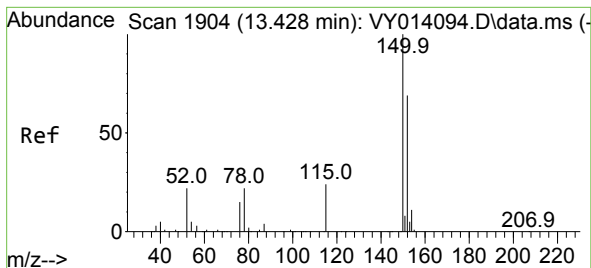
Ion Ratio Lower Upper

131 100

133 53.1 47.5 142.6

119 90.0 31.6 94.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY014160.D

Acq: 14 Jun 2023 17:50

Instrument :

MSVOA_Y

ClientSampleId :

SOIL-001RE

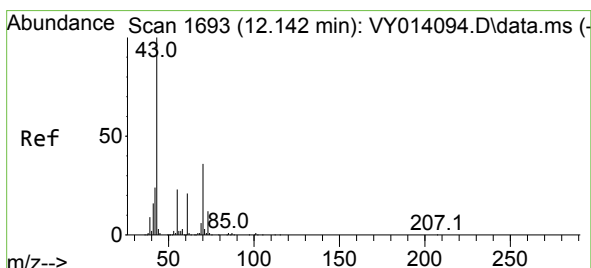
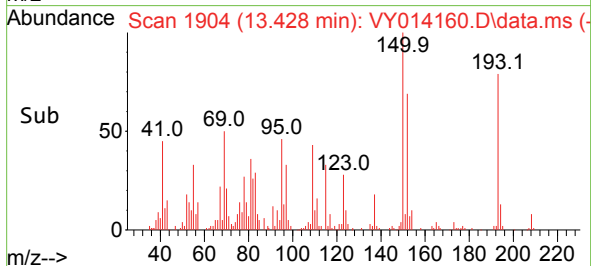
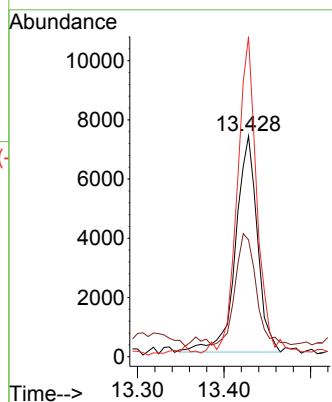
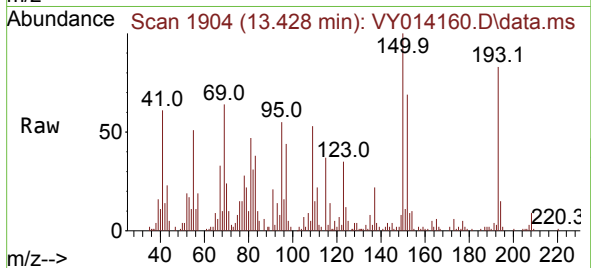
Tgt Ion:152 Resp: 12724

Ion Ratio Lower Upper

152 100

115 50.0 28.8 86.5

150 133.5 0.0 348.8



#74

N-ethyl acetate

Concen: 3.807 ug/l

RT: 12.136 min Scan# 1692

Delta R.T. -0.006 min

Lab File: VY014160.D

Acq: 14 Jun 2023 17:50

Tgt Ion: 43 Resp: 1171

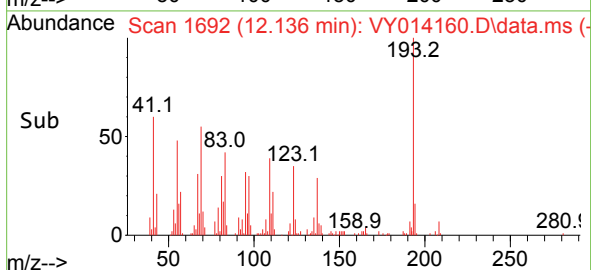
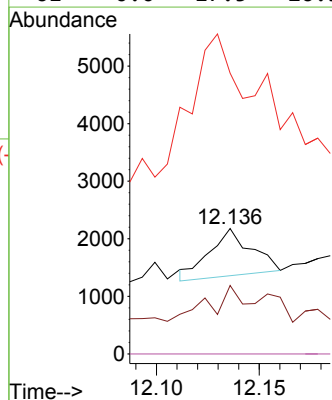
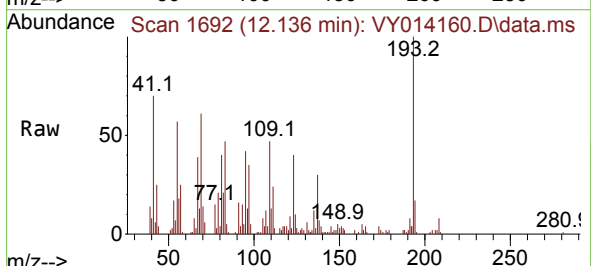
Ion Ratio Lower Upper

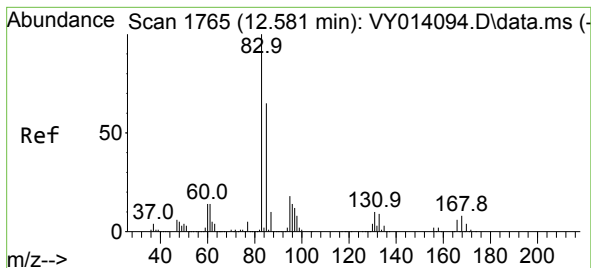
43 100

70 225.2 29.7 44.5#

55 2091.0 18.3 27.5#

61 0.0 17.5 26.3#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.014 ug/l

RT: 12.617 min Scan# 1771

Delta R.T. 0.036 min

Lab File: VY014160.D

Acq: 14 Jun 2023 17:50

Instrument :

MSVOA_Y

ClientSampleId :

SOIL-001RE

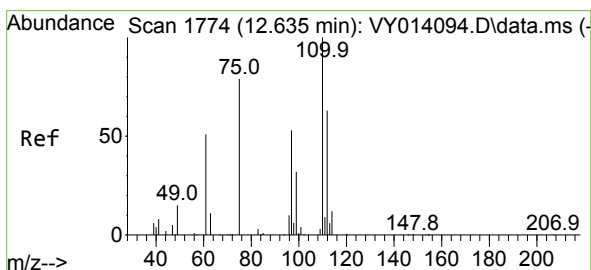
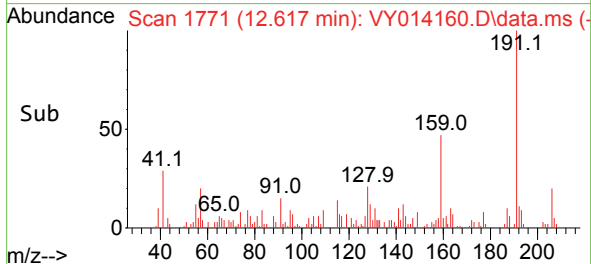
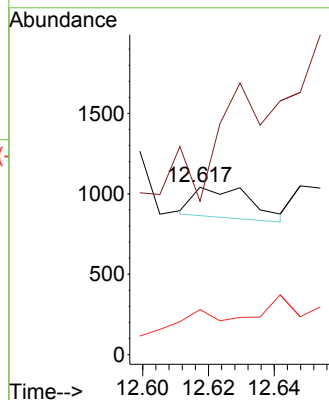
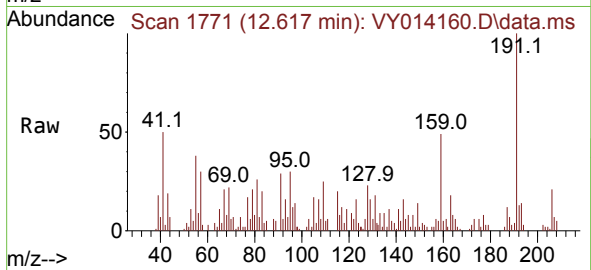
Tgt Ion: 83 Resp: 220

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

85 65.5 31.8 95.4



#76

1,2,3-Trichloropropane

Concen: 1.336 ug/l

RT: 12.654 min Scan# 1777

Delta R.T. 0.019 min

Lab File: VY014160.D

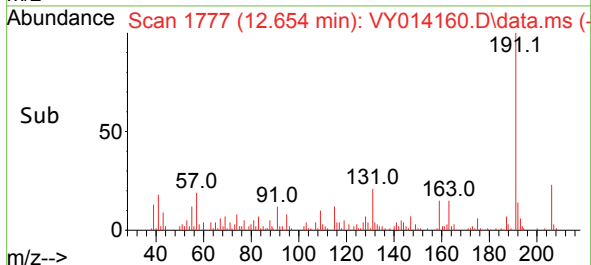
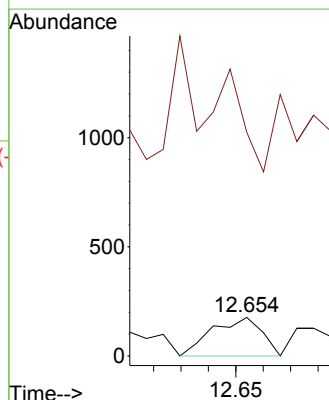
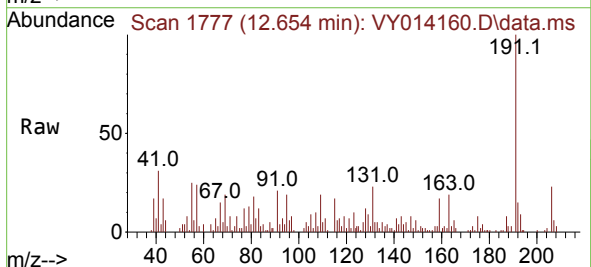
Acq: 14 Jun 2023 17:50

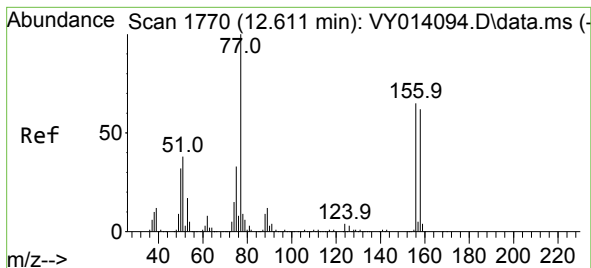
Tgt Ion: 75 Resp: 223

Ion Ratio Lower Upper

75 100

77 528.7 0.0 0.0#





#77

Bromobenzene

Concen: 1.090 ug/l

RT: 12.630 min Scan# 1773

Delta R.T. 0.019 min

Lab File: VY014160.D

Acq: 14 Jun 2023 17:50

Instrument :

MSVOA_Y

ClientSampleId :

SOIL-001RE

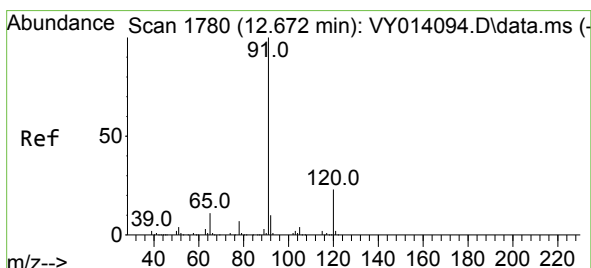
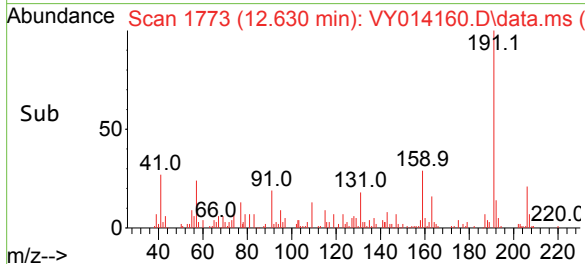
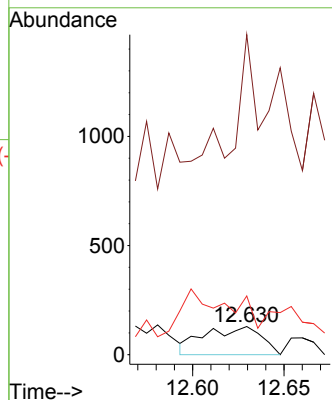
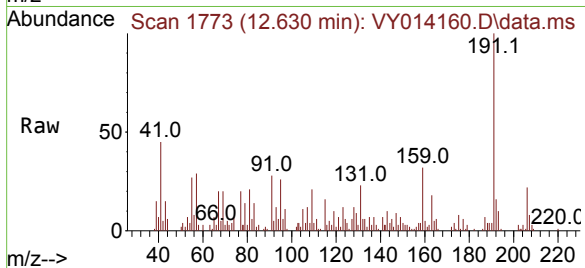
Tgt Ion:156 Resp: 278

Ion Ratio Lower Upper

156 100

77 137.1 92.8 278.6

158 0.0 48.4 145.3#



#78

n-propylbenzene

Concen: 1.996 ug/l

RT: 12.630 min Scan# 1773

Delta R.T. -0.042 min

Lab File: VY014160.D

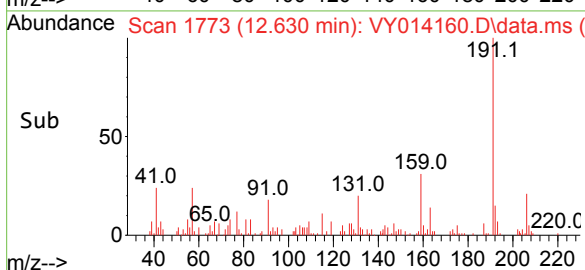
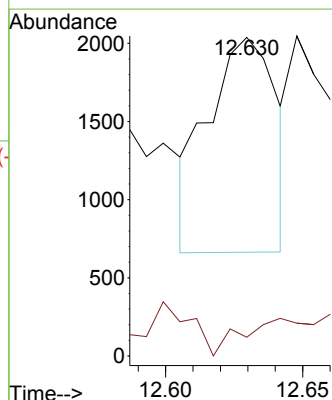
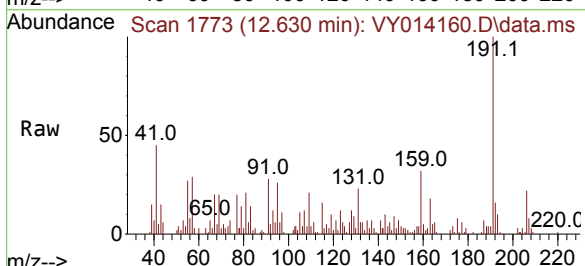
Acq: 14 Jun 2023 17:50

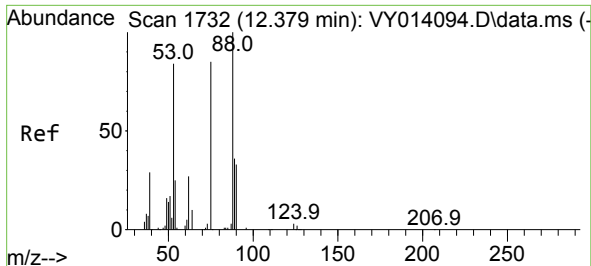
Tgt Ion: 91 Resp: 2366

Ion Ratio Lower Upper

91 100

120 17.7 11.5 34.4

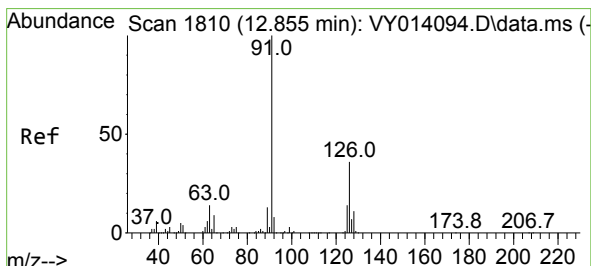
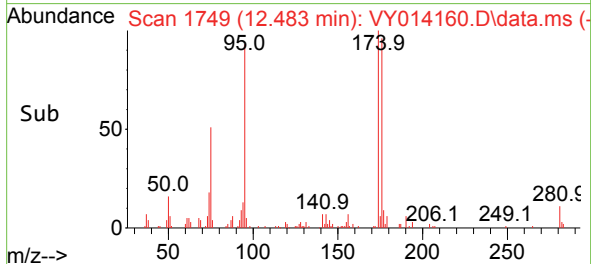
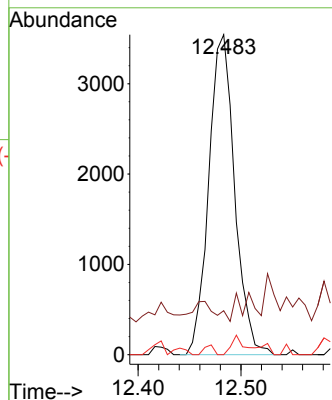
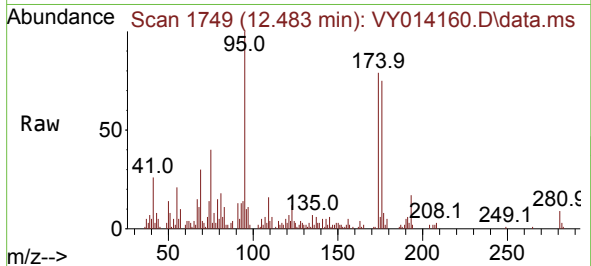




#81
trans-1,4-Dichloro-2-butene
Concen: 80.321 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

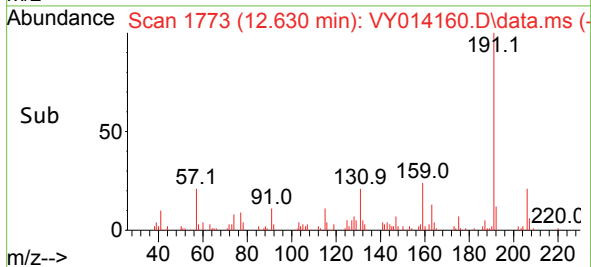
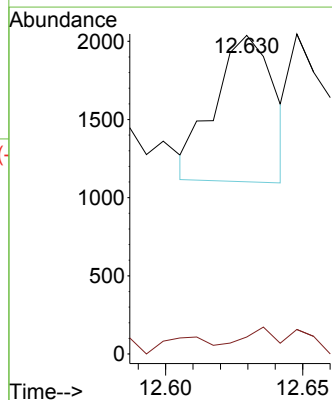
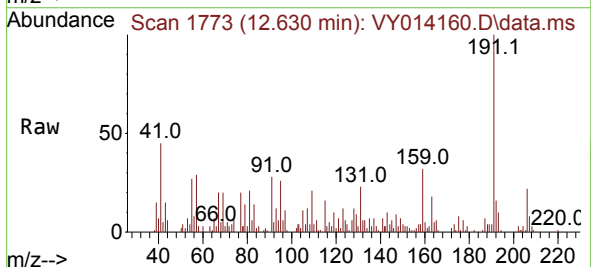
Instrument :
MSVOA_Y
ClientSampleId :
SOIL-001RE

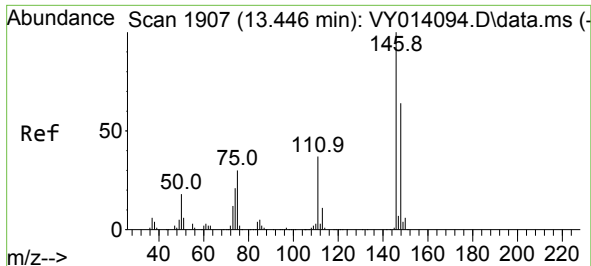
Tgt Ion: 75 Resp: 6203
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 3.2 37.4 56.0#



#82
4-Chlorotoluene
Concen: 1.931 ug/l
RT: 12.630 min Scan# 1773
Delta R.T. -0.225 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

Tgt Ion: 91 Resp: 1396
Ion Ratio Lower Upper
91 100
126 18.1 17.2 51.6

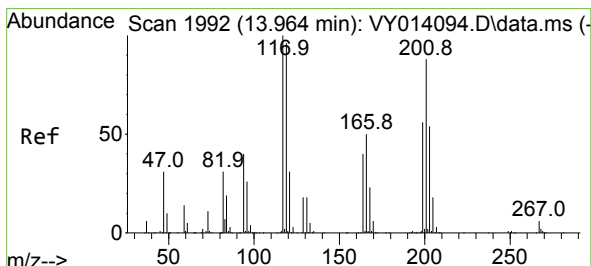
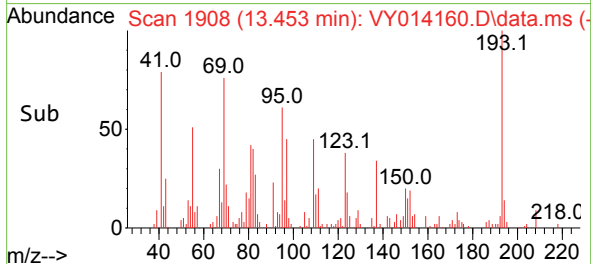
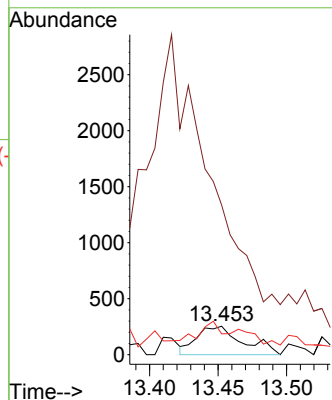
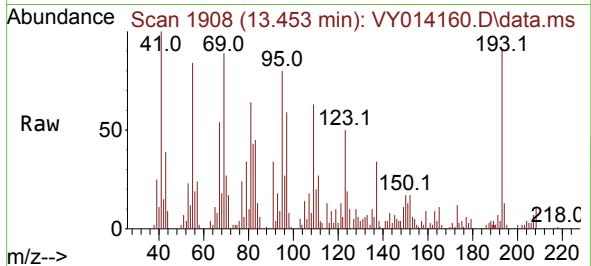




#88
1,4-Dichlorobenzene
Concen: 1.202 ug/l
RT: 13.453 min Scan# 1908
Delta R.T. 0.007 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

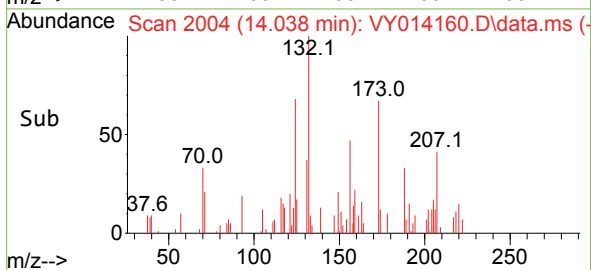
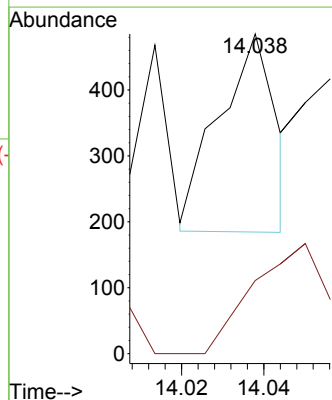
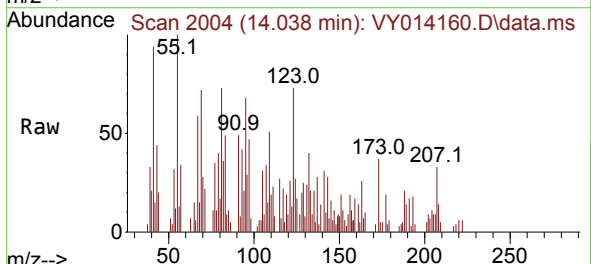
Instrument :
MSVOA_Y
ClientSampleId :
SOIL-001RE

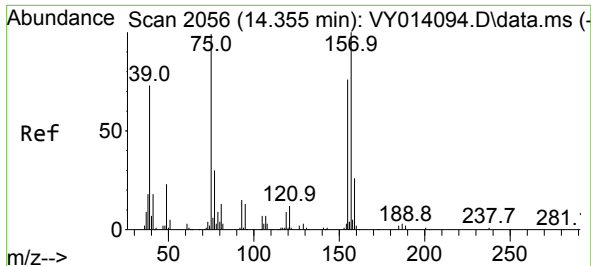
Tgt Ion:146 Resp: 590
Ion Ratio Lower Upper
146 100
111 0.0 18.9 56.7#
148 31.2 32.1 96.5#



#90
Hexachloroethane
Concen: 1.656 ug/l
RT: 14.038 min Scan# 2004
Delta R.T. 0.074 min
Lab File: VY014160.D
Acq: 14 Jun 2023 17:50

Tgt Ion:117 Resp: 290
Ion Ratio Lower Upper
117 100
201 77.9 41.6 124.8

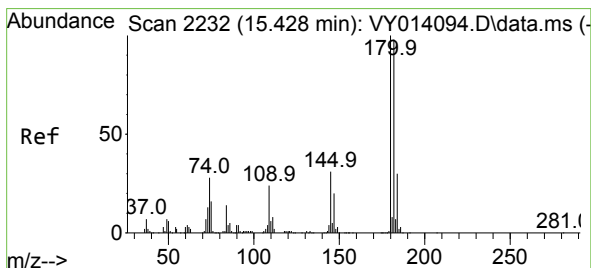
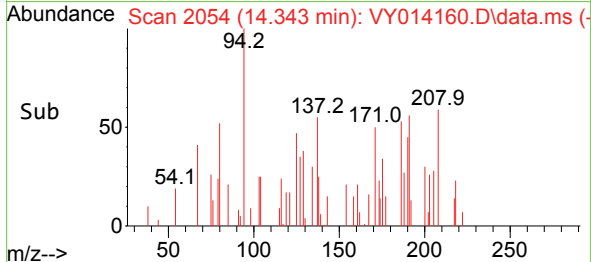
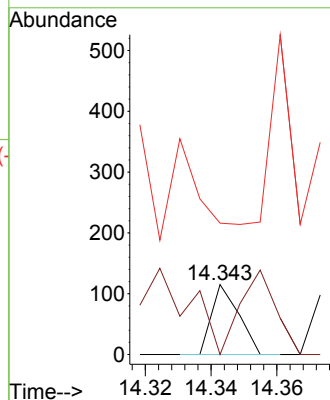
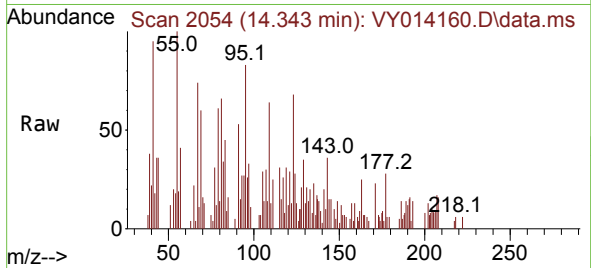




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.574 ug/l
 RT: 14.343 min Scan# 2054
 Delta R.T. -0.012 min
 Lab File: VY014160.D
 Acq: 14 Jun 2023 17:50

Instrument :
 MSVOA_Y
 ClientSampleId :
 SOIL-001RE

Tgt Ion: 75 Resp: 65
 Ion Ratio Lower Upper
 75 100
 155 160.0 41.5 124.6#
 157 253.8 51.8 155.5#



#96
 1,2,3-Trichlorobenzene
 Concen: 1.561 ug/l
 RT: 15.416 min Scan# 2230
 Delta R.T. -0.012 min
 Lab File: VY014160.D
 Acq: 14 Jun 2023 17:50

Tgt Ion: 180 Resp: 391
 Ion Ratio Lower Upper
 180 100
 182 48.1 47.3 141.8
 145 0.0 15.4 46.2#

