

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011020\
 Data File : VX014556.D
 Acq On : 10 Jan 2020 23:43
 Operator : JC/SP
 Sample : L1064-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-A

Quant Time: Jan 11 00:43:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	484625	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	755320	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	693094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	315872	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	271871	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
35) Dibromofluoromethane	5.49	113	228226	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
50) Toluene-d8	8.71	98	907505	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	
62) 4-Bromofluorobenzene	11.14	95	310786	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	

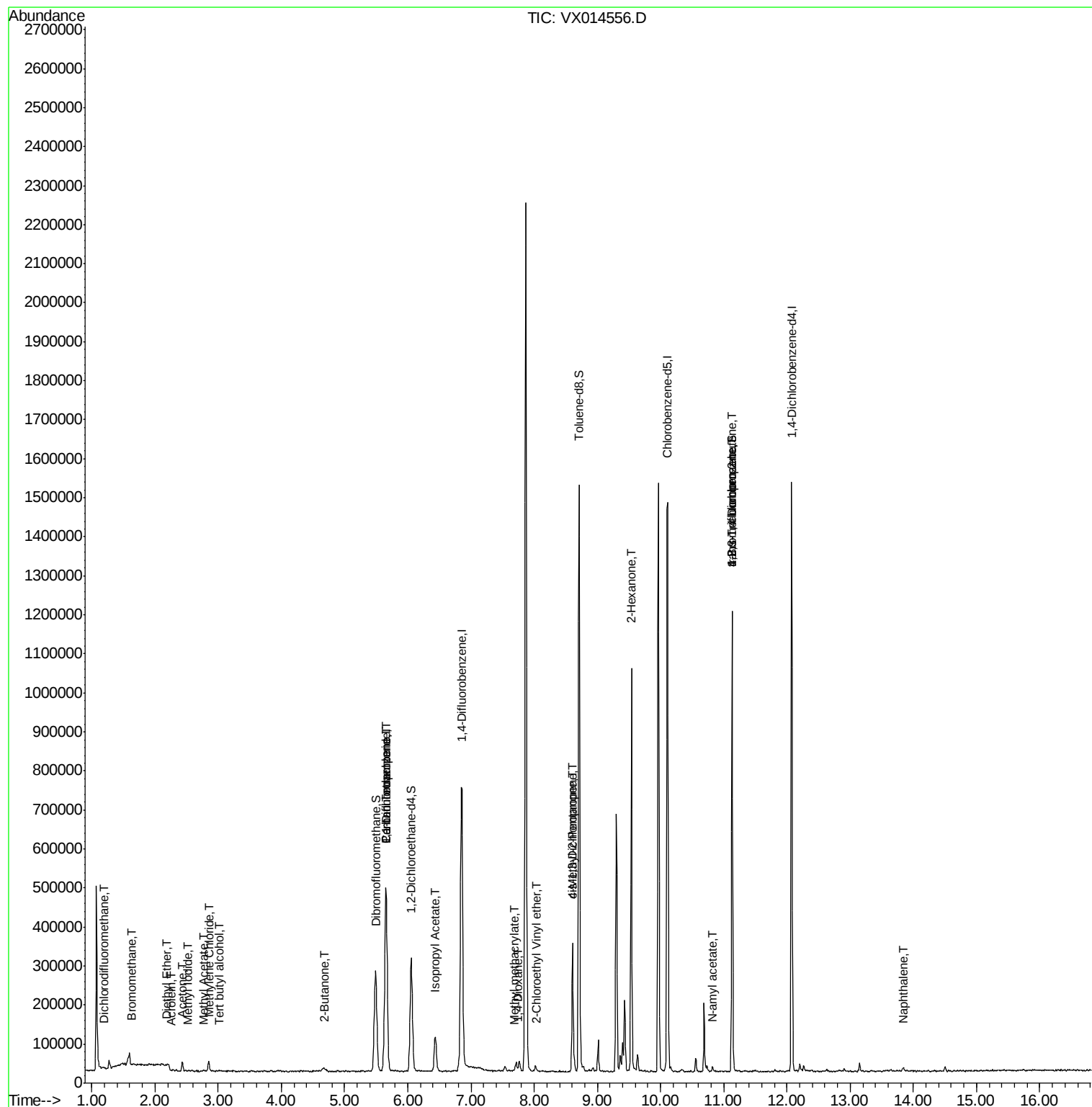
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	411	0.320	ug/l #	1
5) Bromomethane	1.64	94	1139	0.250	ug/l #	60
6) Chloroethane	1.73	64	712	Below Cal	#	45
8) Diethyl Ether	2.19	74	953	0.268	ug/l	79
10) Methyl Iodide	2.52	142	1356	0.238	ug/l #	69
11) Tert butyl alcohol	3.01	59	4266	3.777	ug/l #	82
13) Acrolein	2.27	56	247	0.273	ug/l #	6
16) Acetone	2.43	43	22926	4.346	ug/l #	84
18) Methyl Acetate	2.77	43	5581	0.718	ug/l	95
20) Methylene Chloride	2.85	84	11506	2.114	ug/l	99
25) 2-Butanone	4.67	43	8612	2.131	ug/l	100
36) 1,1-Dichloropropene	5.65	75	33704	4.745	ug/l #	52
38) Carbon Tetrachloride	5.65	117	41670	6.375	ug/l #	18
43) Isopropyl Acetate	6.43	43	124888	10.020	ug/l	99
48) Methyl methacrylate	7.68	41	7355	1.232	ug/l #	16
49) 1,4-Dioxane	7.74	88	278	2.198	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	116539	15.344	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	53821	6.269	ug/l #	60
58) 2-Chloroethyl Vinyl ether	8.04	63	896	0.317	ug/l	98
59) 2-Hexanone	9.54	43	119970	19.963	ug/l #	51
74) N-amyl acetate	10.82	43	6038	0.617	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	151079	23.117	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	151079	61.117	ug/l #	12
88) 1,4-Dichlorobenzene	12.07	146	377	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.90	180	87	Below Cal		62
95) Naphthalene	13.83	128	6304	0.268	ug/l #	87
96) 1,2,3-Trichlorobenzene	14.01	180	734	Below Cal		90

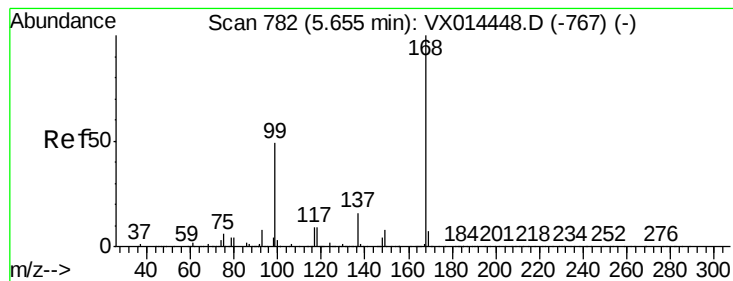
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX011020\
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SOIL-A

Quant Time: Jan 11 00:43:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

Instrument :

MSVOA_X

ClientSampleId :

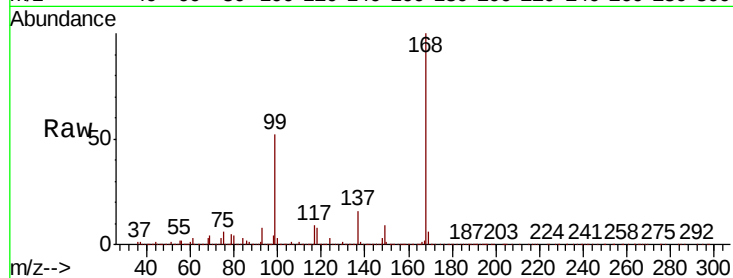
SOIL-A

Tot Ion:168 Resp: 484625

Ion Ratio Lower Upper

168 100

99 51.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

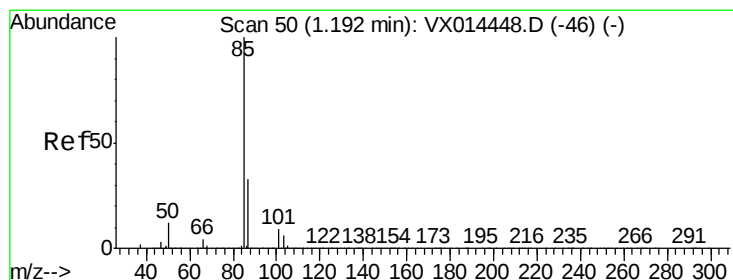
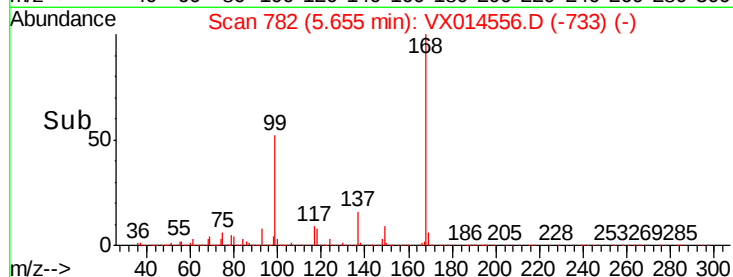
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.320 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014556.D

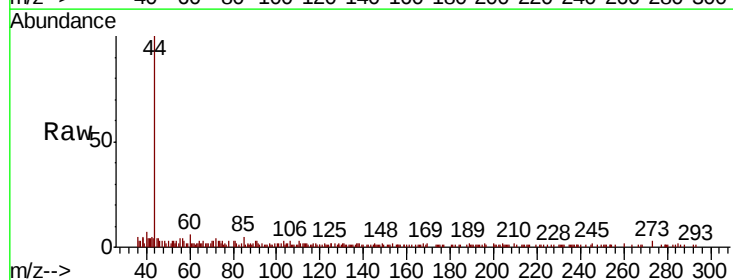
Acq: 10 Jan 2020 23:43

Tgt Ion: 85 Resp: 411

Ion Ratio Lower Upper

85 100

87 184.3 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

400

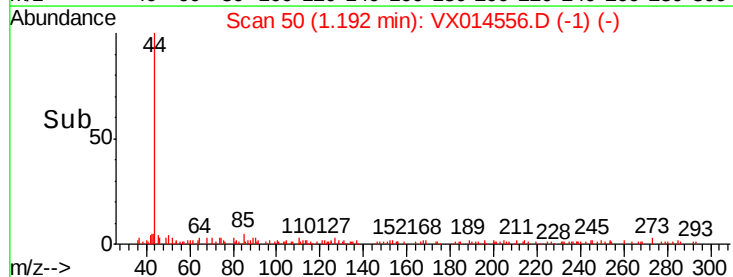
300

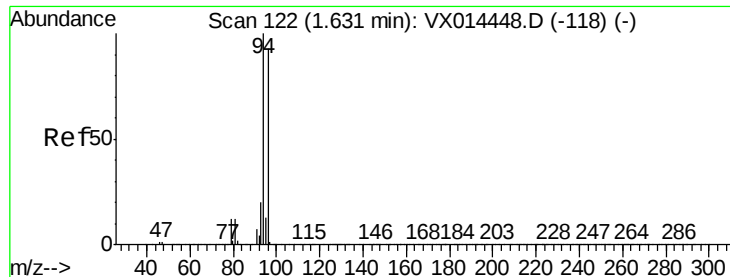
200

100

0

Time-->





#5

Bromomethane

Concen: 0.250 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

Instrument :

MSVOA_X

ClientSampled :

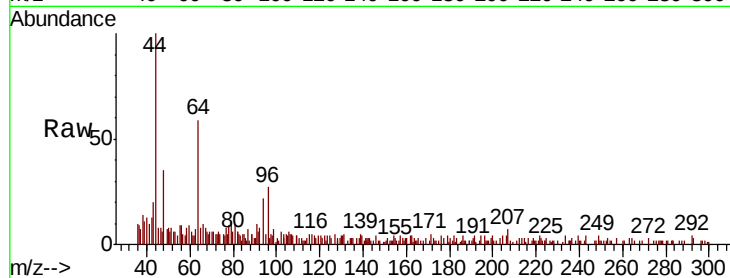
SOIL-A

Tot Ion: 94 Resp: 1139

Ion Ratio Lower Upper

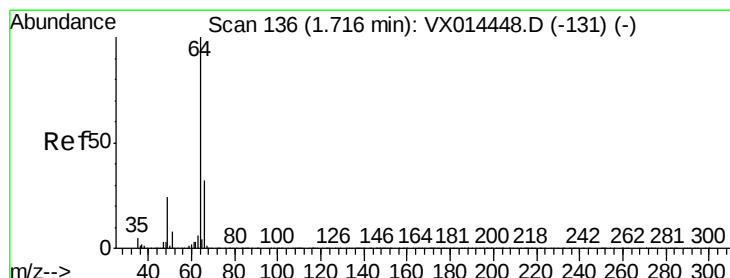
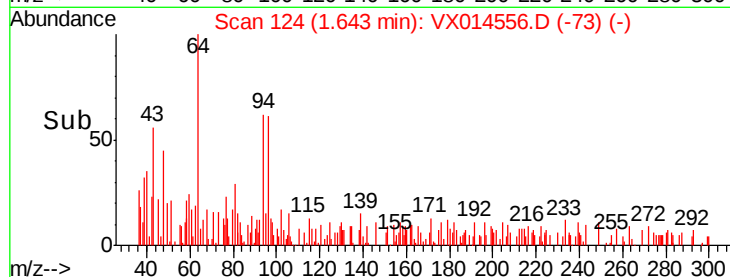
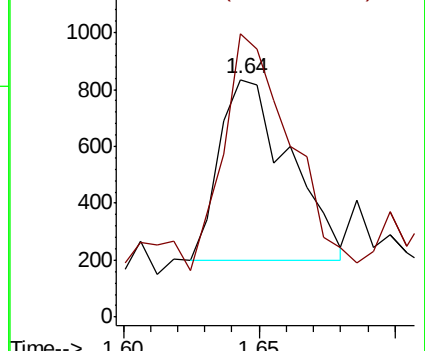
94 100

96 130.6 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 138

Delta R.T. 0.01 min

Lab File: VX014556.D

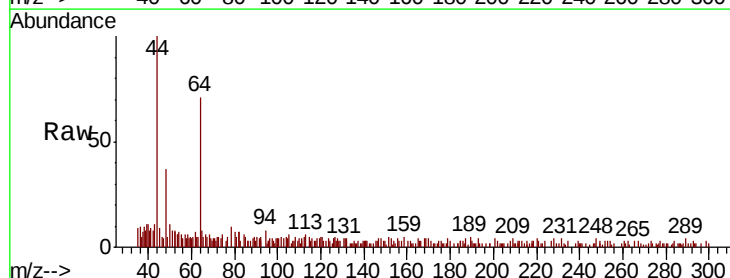
Acq: 10 Jan 2020 23:43

Tgt Ion: 64 Resp: 712

Ion Ratio Lower Upper

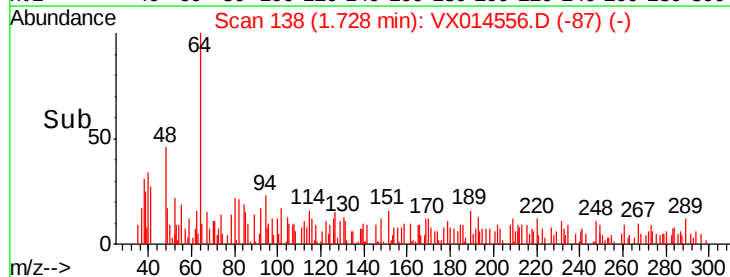
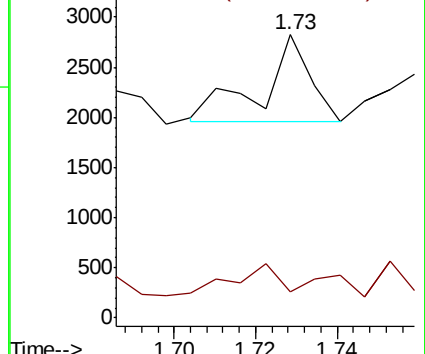
64 100

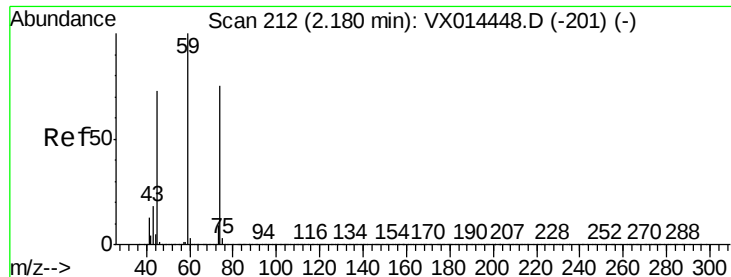
66 1.2 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

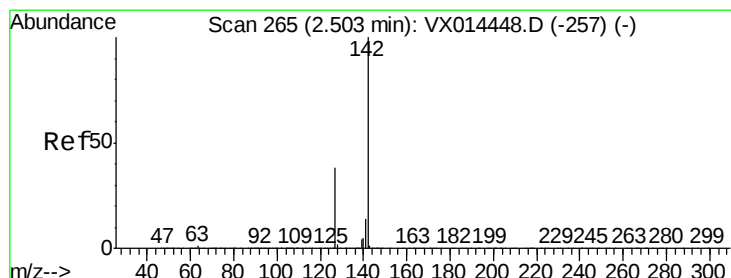
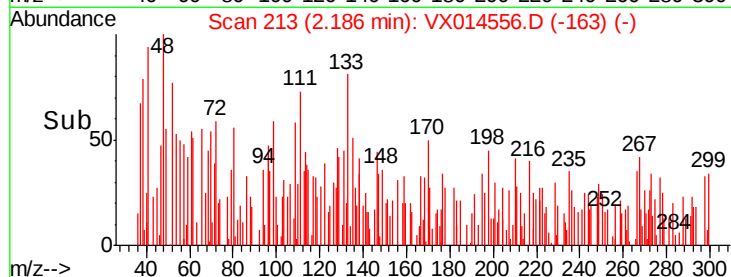
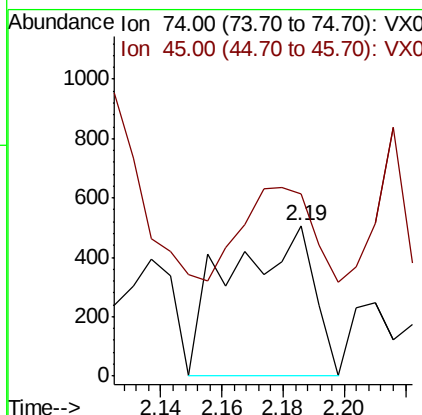
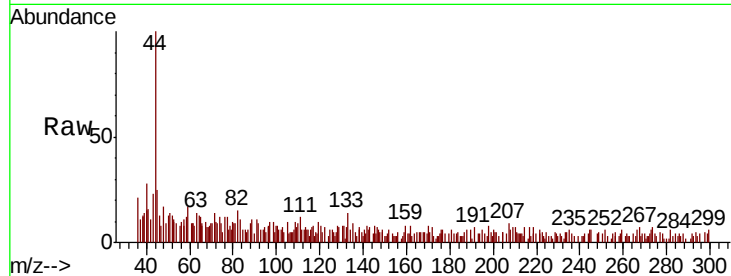




#8
Diethyl Ether
Concen: 0.268 ug/l
RT: 2.19 min Scan# 213
Delta R.T. 0.01 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

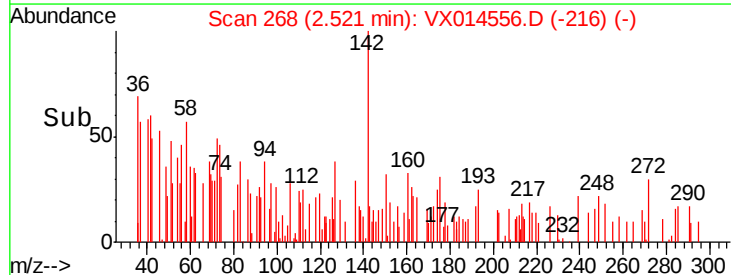
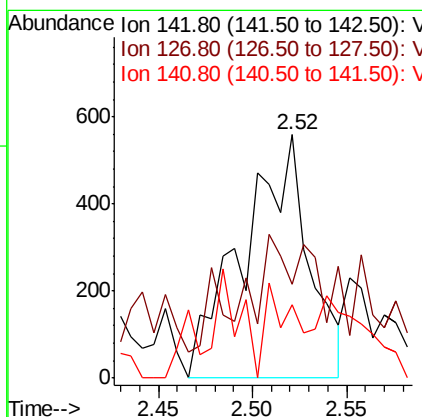
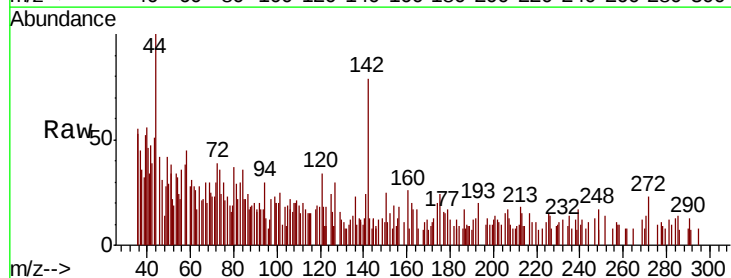
Instrument :
MSVOA_X
ClientSampled :
SOIL-A

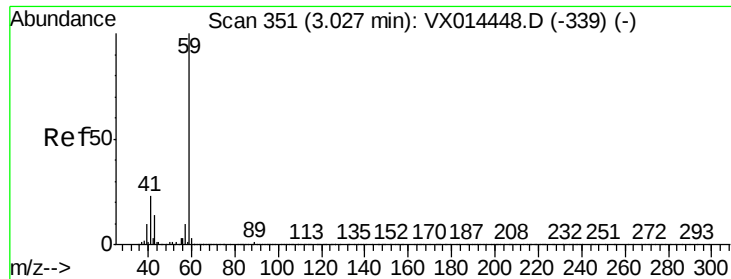
Tot Ion: 74 Resp: 953
Ion Ratio Lower Upper
74 100
45 76.6 48.7 146.1



#10
Methyl Iodide
Concen: 0.238 ug/l
RT: 2.52 min Scan# 268
Delta R.T. 0.02 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Tgt Ion: 142 Resp: 1356
Ion Ratio Lower Upper
142 100
127 14.2 31.2 46.8#
141 16.4 11.4 17.2

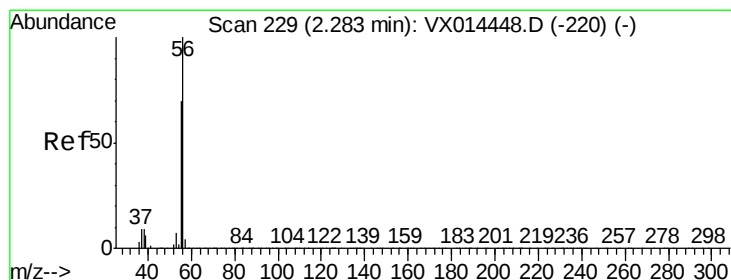
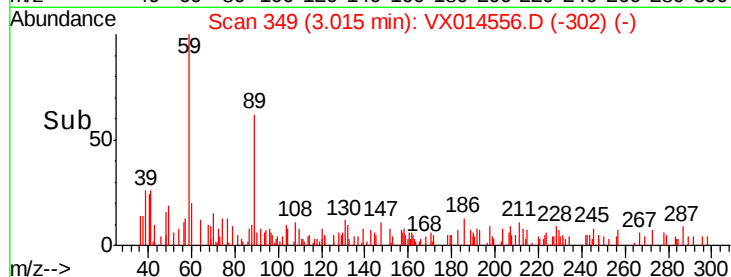
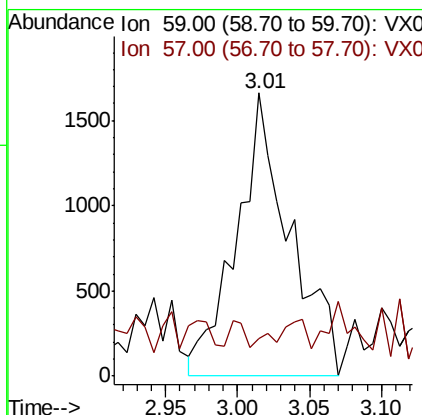
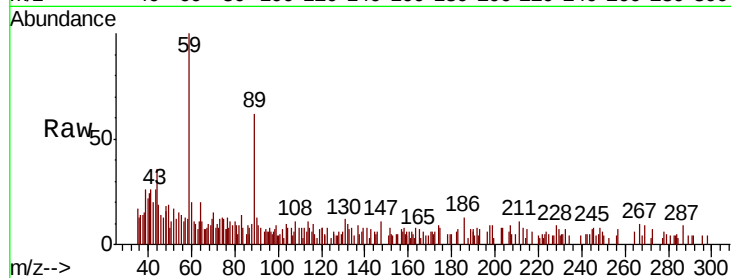




#11
Tert butyl alcohol
Concen: 3.777 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.01 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

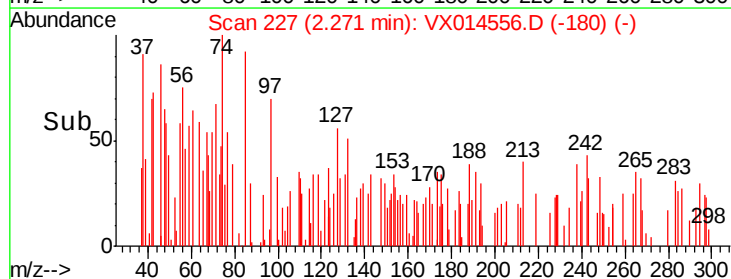
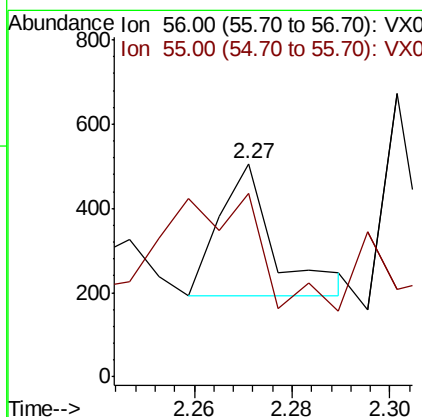
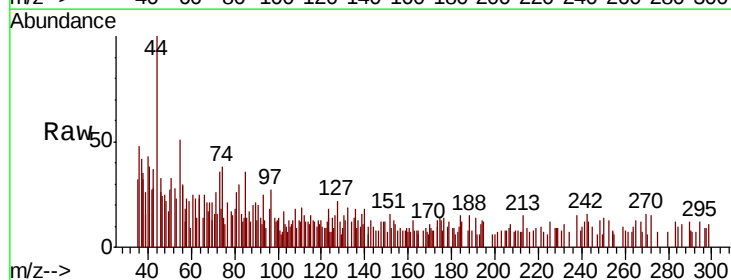
Instrument :
MSVOA_X
ClientSampled :
SOIL-A

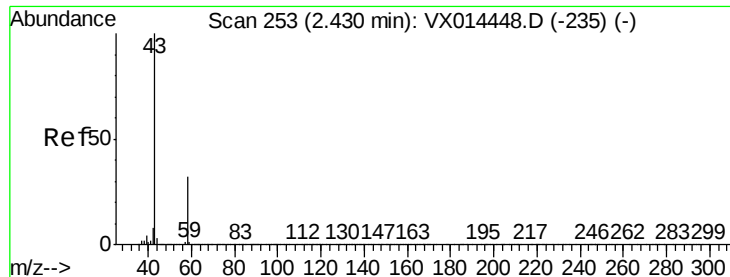
Tot Ion: 59 Resp: 4266
Ion Ratio Lower Upper
59 100
57 3.7 8.5 12.7#



#13
Acrolein
Concen: 0.273 ug/l
RT: 2.27 min Scan# 227
Delta R.T. -0.01 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Tgt Ion: 56 Resp: 247
Ion Ratio Lower Upper
56 100
55 144.9 55.0 82.6#





#16

Acetone

Concen: 4.346 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

Instrument :

MSVOA_X

ClientSampleId :

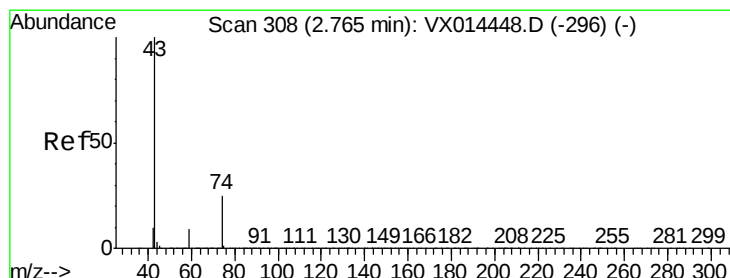
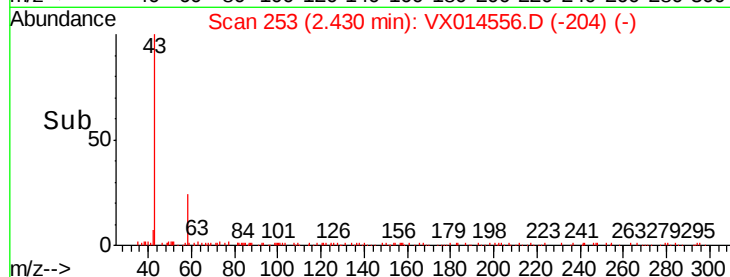
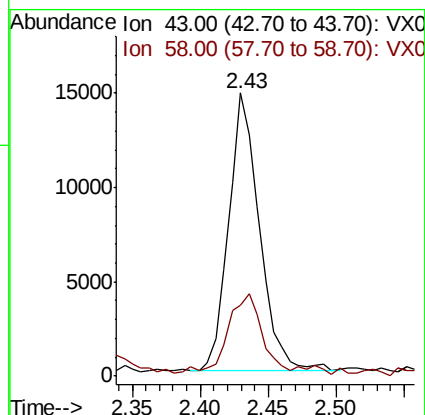
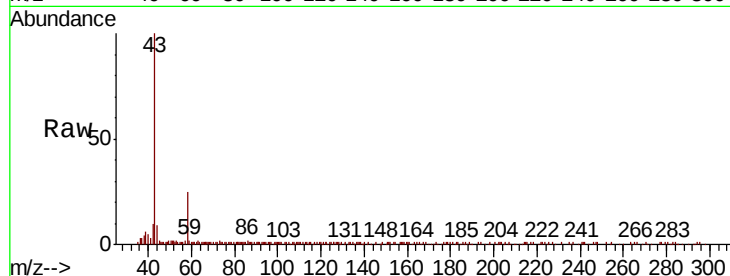
SOIL-A

Tot Ion: 43 Resp: 22926

Ion Ratio Lower Upper

43 100

58 22.9 25.4 38.0#



#18

Methyl Acetate

Concen: 0.718 ug/l

RT: 2.77 min Scan# 309

Delta R.T. 0.01 min

Lab File: VX014556.D

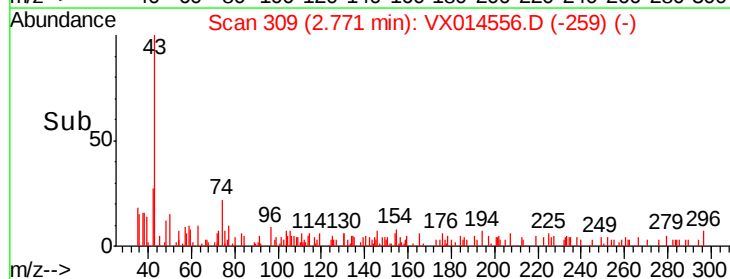
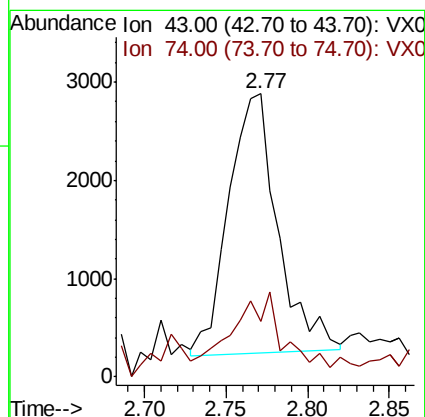
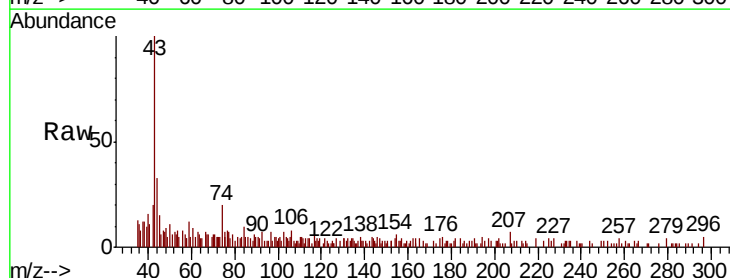
Acq: 10 Jan 2020 23:43

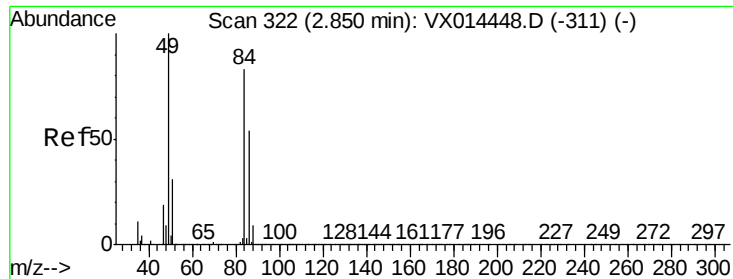
Tgt Ion: 43 Resp: 5581

Ion Ratio Lower Upper

43 100

74 26.5 19.4 29.2

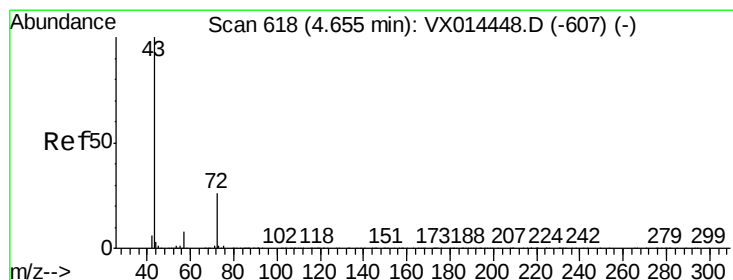
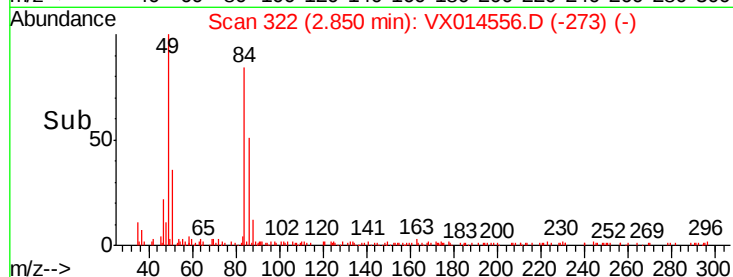
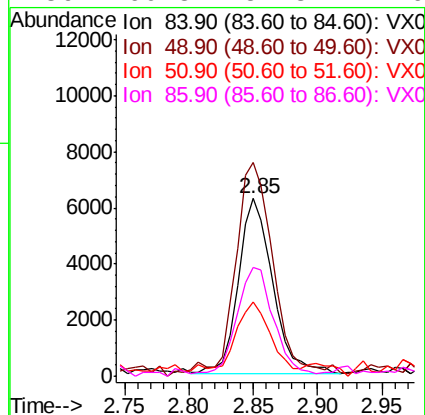
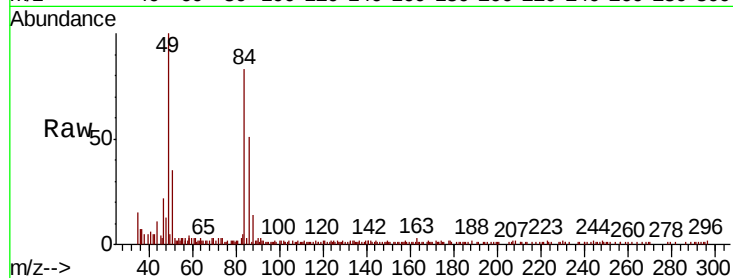




#20
Methvlene Chloride
Concen: 2.114 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

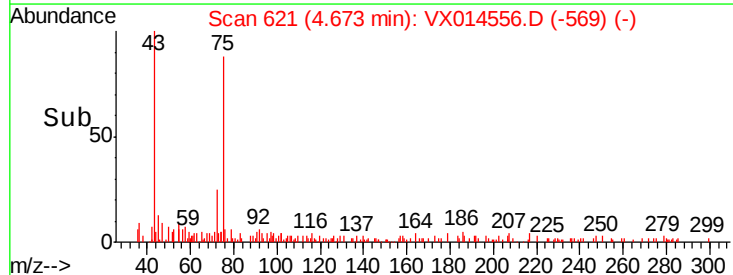
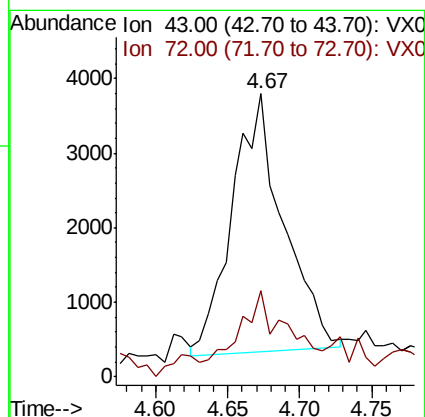
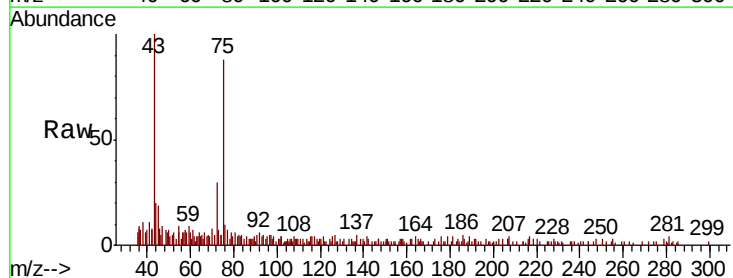
Instrument :
MSVOA_X
ClientSampleId :
SOIL-A

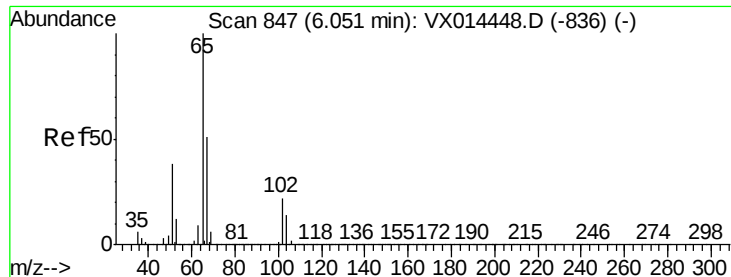
Tot Ion:	84	Resp:	11506
Ion	Ratio	Lower	Upper
84	100		
49	119.7	95.8	143.8
51	37.8	30.2	45.4
86	60.8	51.8	77.6



#25
2-Butanone
Concen: 2.131 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Tgt Ion:	43	Resp:	8612
Ion	Ratio	Lower	Upper
43	100		
72	25.6	20.6	31.0





#33

1,2-Dichloroethane-d4

Concen: 50.253 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

Instrument :

MSVOA_X

ClientSampleId :

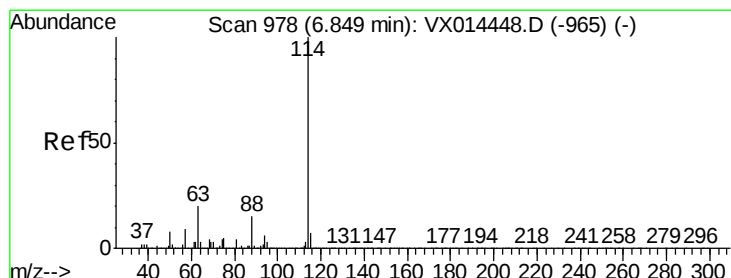
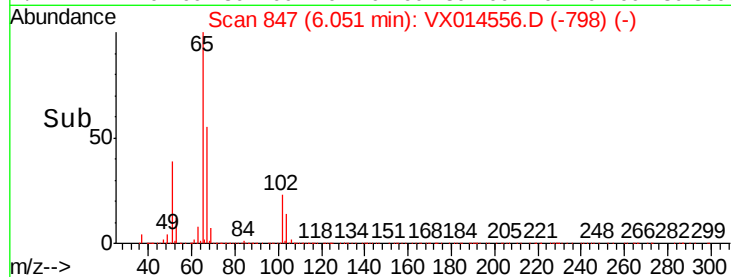
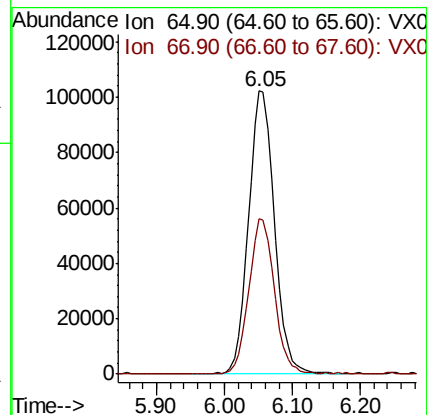
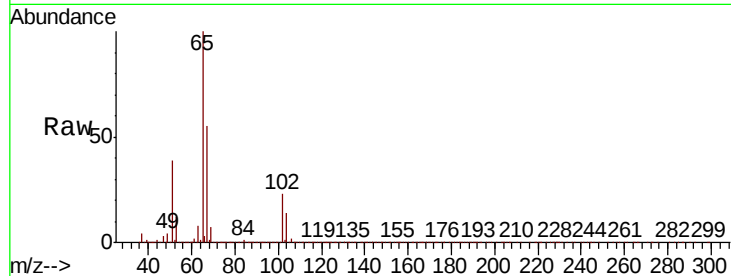
SOIL-A

Tot Ion: 65 Resp: 271871

Ion Ratio Lower Upper

65 100

67 53.8 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

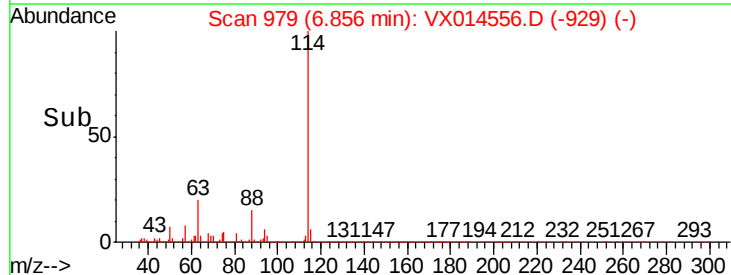
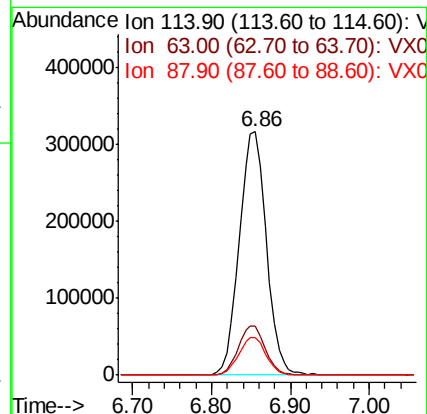
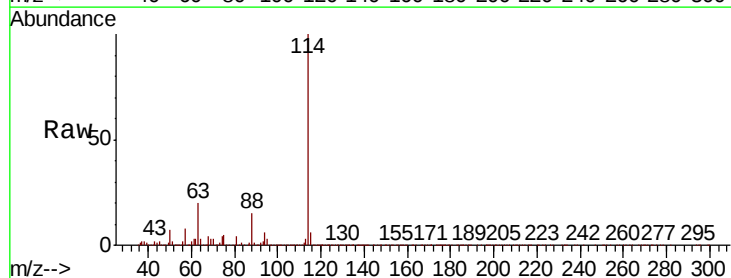
Tgt Ion: 114 Resp: 755320

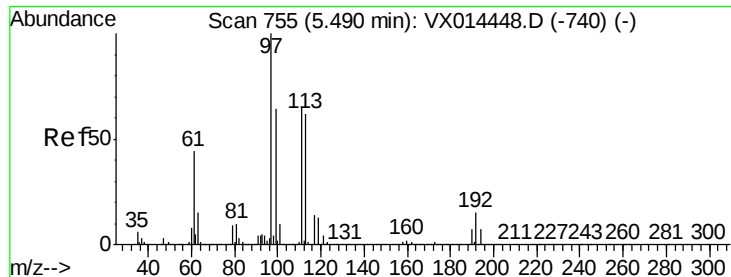
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.915 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

Instrument :

MSVOA_X

ClientSampled :

SOIL-A

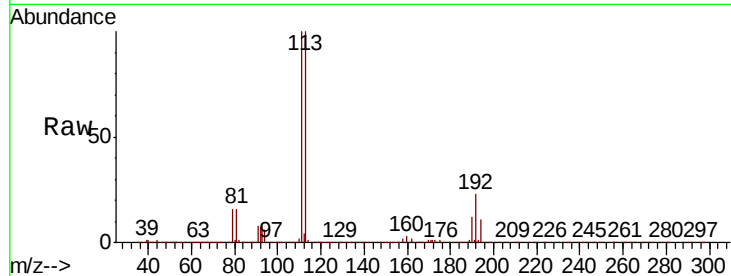
Tot Ion:113 Resp: 228226

Ion Ratio Lower Upper

113 100

111 100.9 81.5 122.3

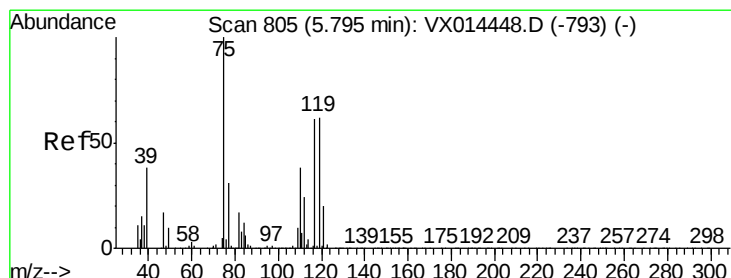
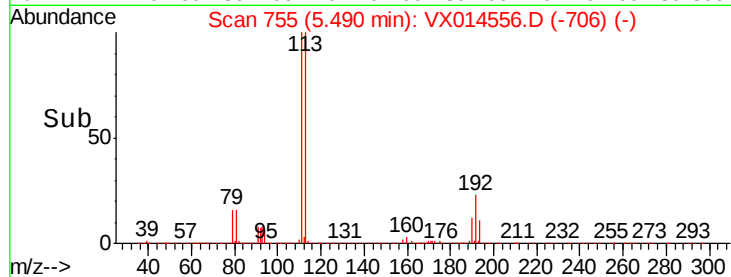
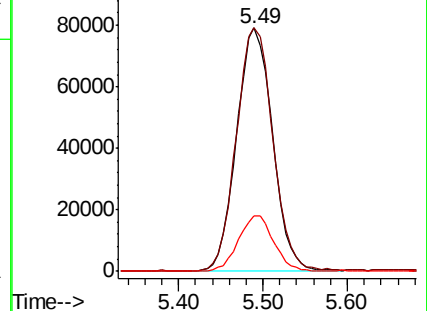
192 22.6 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.745 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

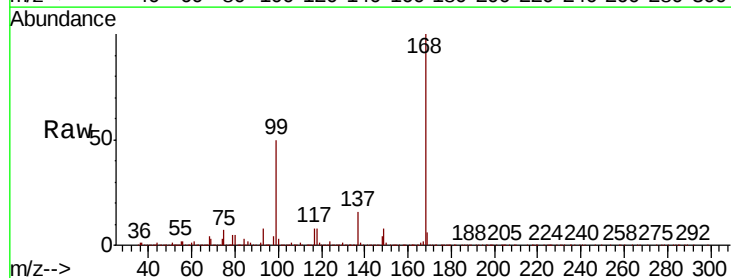
Tgt Ion: 75 Resp: 33704

Ion Ratio Lower Upper

75 100

110 11.2 18.6 55.8#

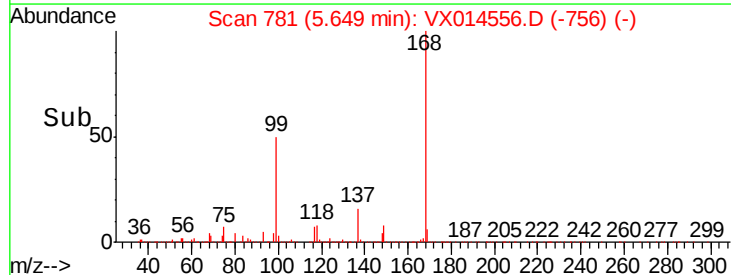
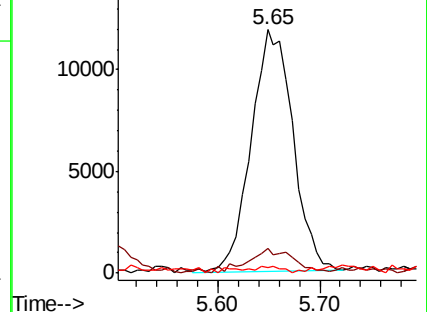
77 1.4 24.5 36.7#

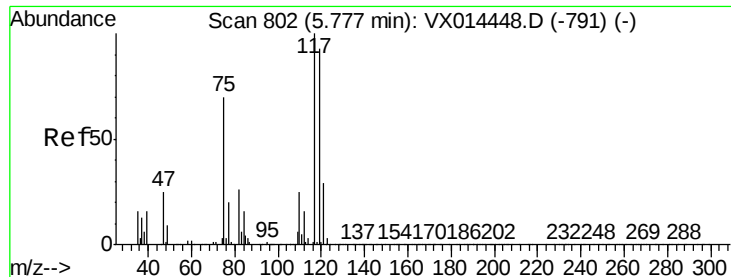


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.375 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

Instrument :

MSVOA_X

ClientSampled :

SOIL-A

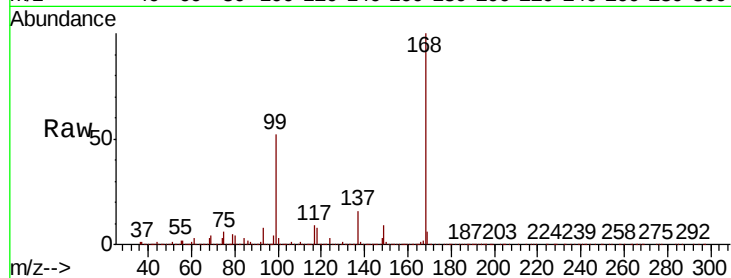
Tot Ion:117 Resp: 41670

Ion Ratio Lower Upper

117 100

119 4.9 73.8 110.8#

121 1.6 23.4 35.0#

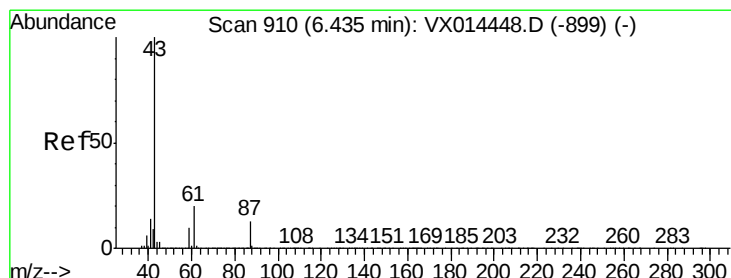
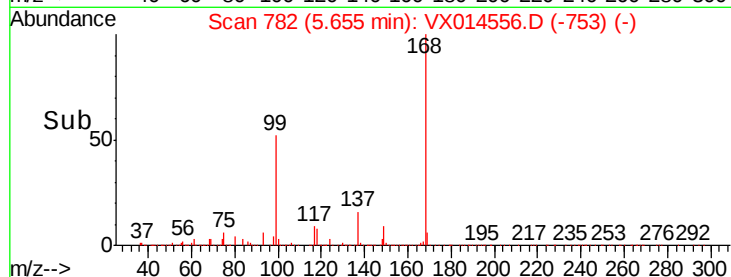
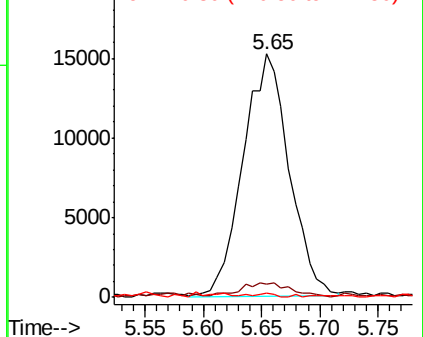


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.020 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

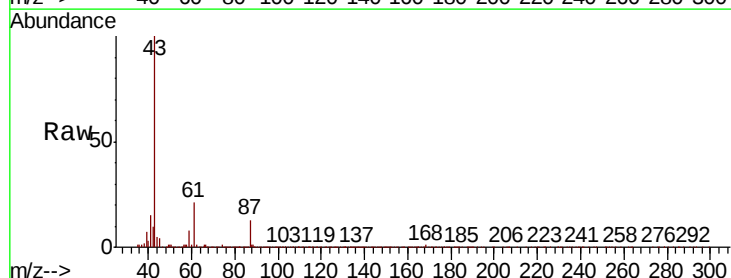
Tgt Ion: 43 Resp: 124888

Ion Ratio Lower Upper

43 100

61 21.1 16.6 24.8

87 13.2 10.8 16.2

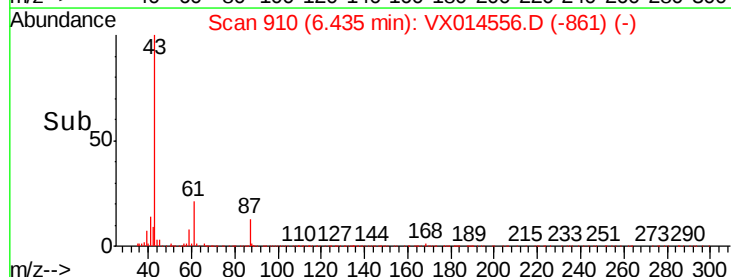
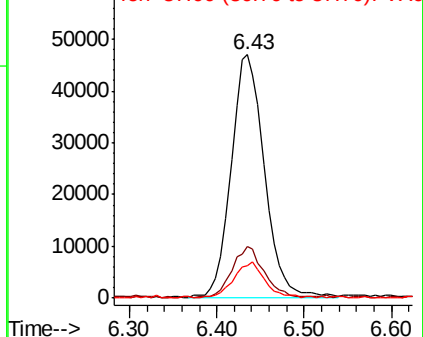


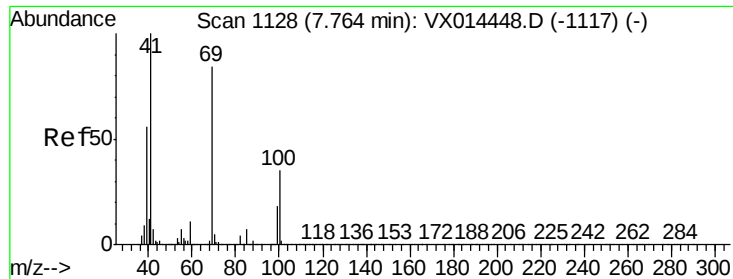
Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

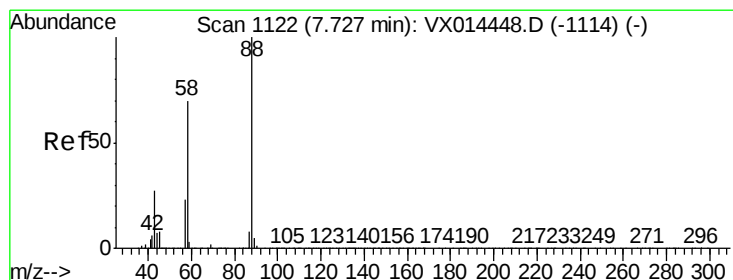
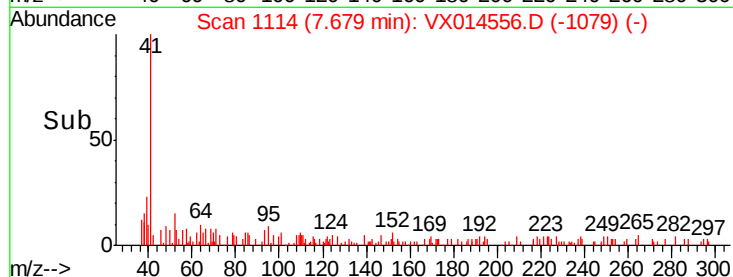
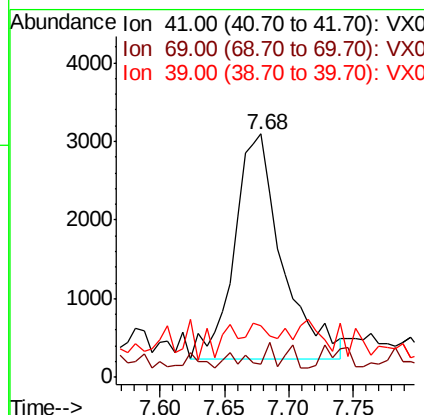
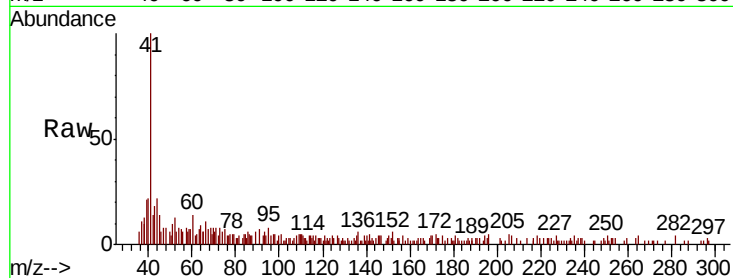




#48
Methvl methacrylate
Concen: 1.232 ug/l
RT: 7.68 min Scan# 1114
Delta R.T. -0.09 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

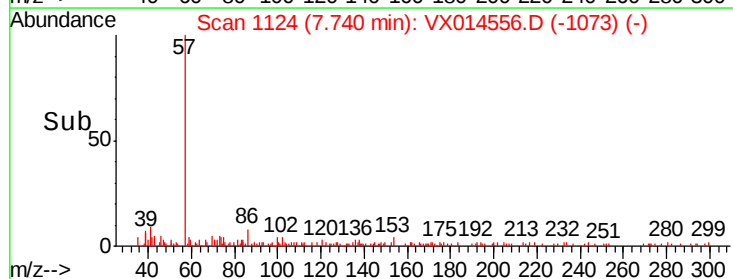
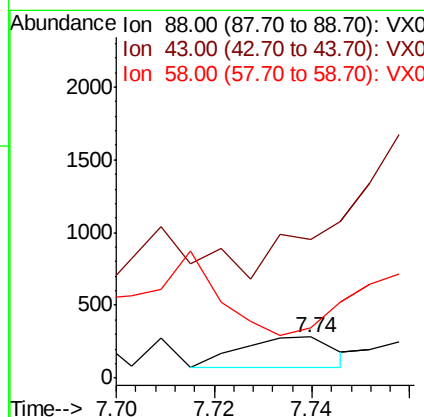
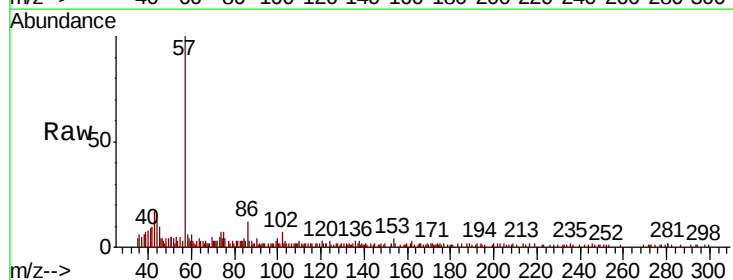
Instrument :
MSVOA_X
ClientSampleId :
SOIL-A

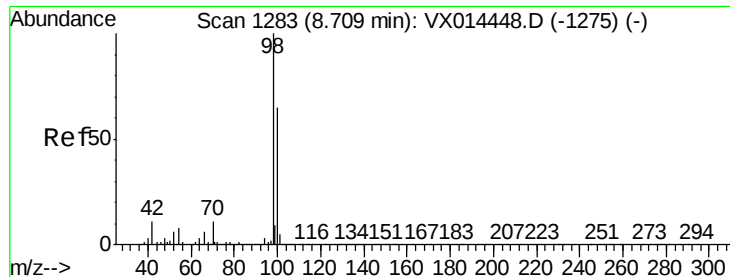
Tot Ion	Ratio	Lower	Upper
41	100		
69	2.3	65.5	98.3#
39	0.0	43.9	65.9#



#49
1,4-Dioxane
Concen: 2.198 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.4	41.0#
58	0.0	57.1	85.7#





#50

Toluene-d8

Concen: 51.146 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

Instrument :

MSVOA_X

ClientSampleId :

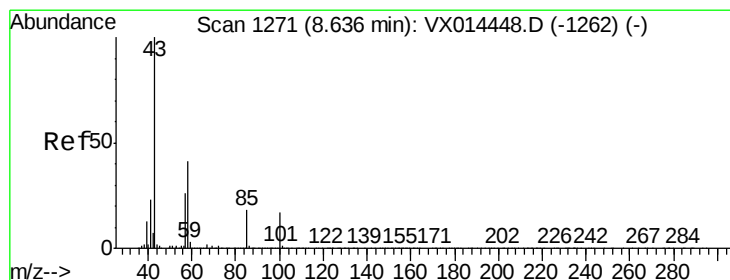
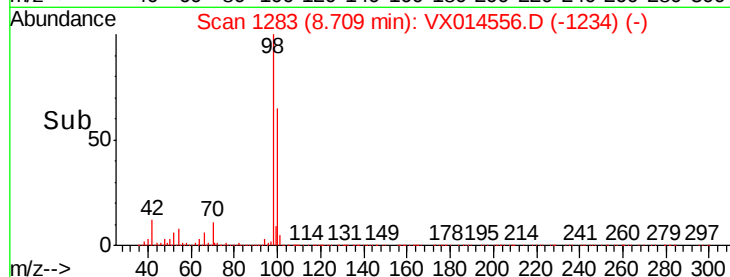
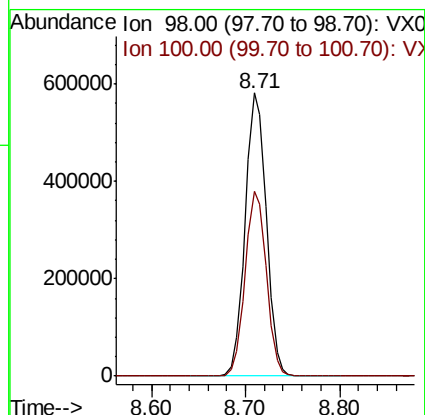
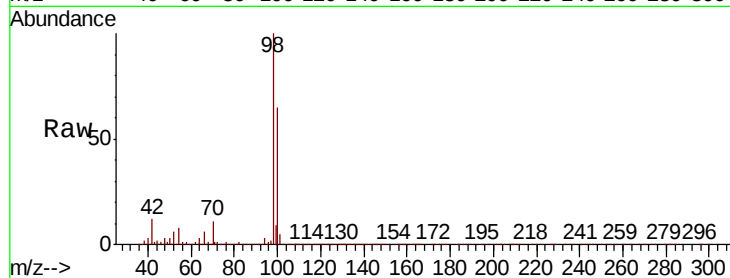
SOIL-A

Tot Ion: 98 Resp: 907505

Ion Ratio Lower Upper

98 100

100 65.4 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 15.344 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014556.D

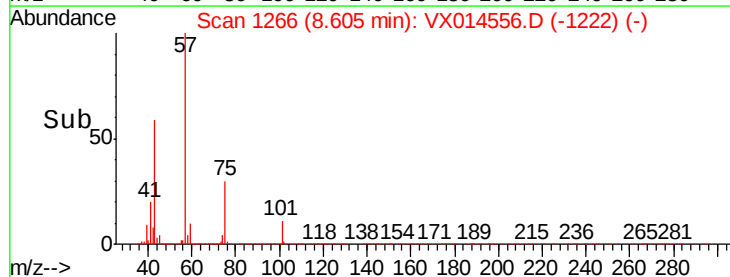
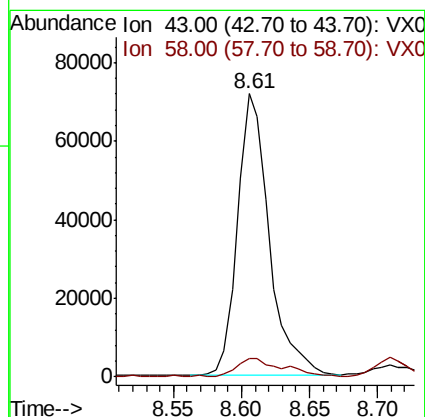
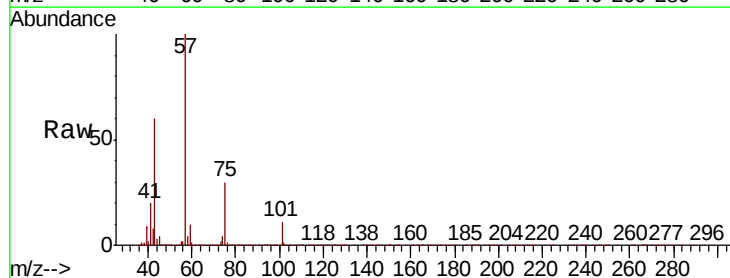
Acq: 10 Jan 2020 23:43

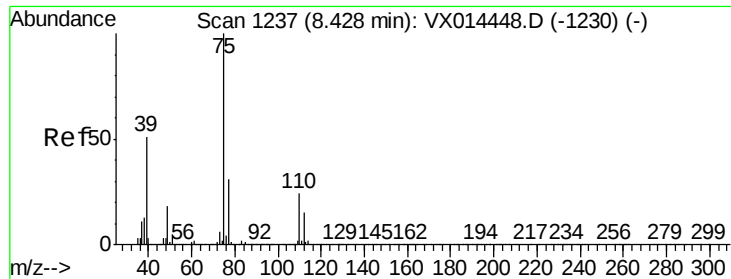
Tgt Ion: 43 Resp: 116539

Ion Ratio Lower Upper

43 100

58 9.8 32.4 48.6#



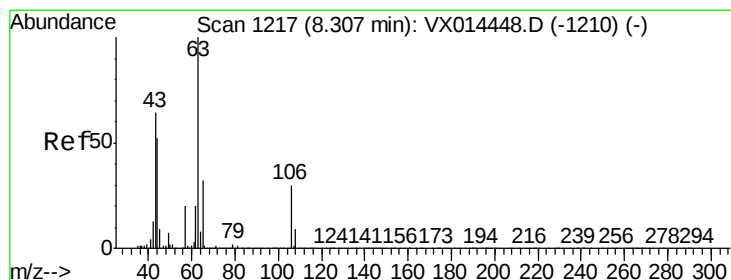
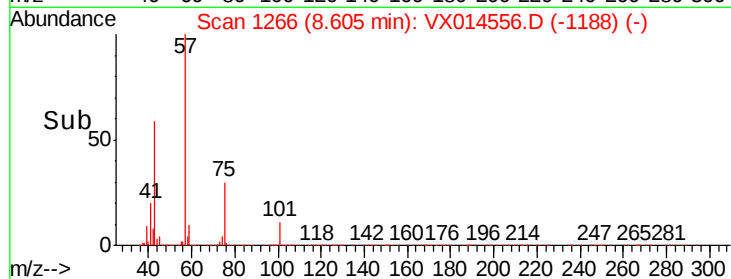
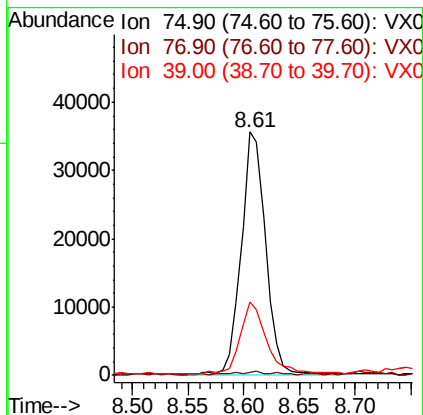
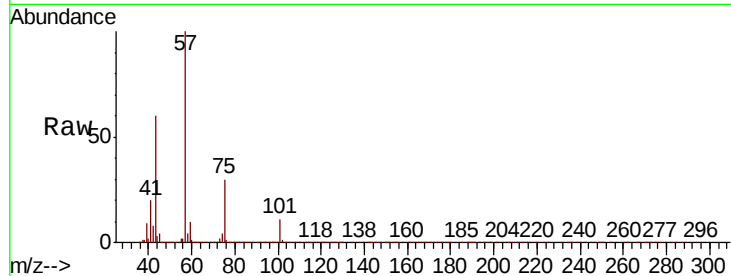


#54

cis-1,3-Dichloropropene
Concen: 6.269 ug/l
RT: 8.61 min Scan# 1266
Delta R.T. 0.18 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Instrument :
MSVOA_X
ClientSampleId :
SOIL-A

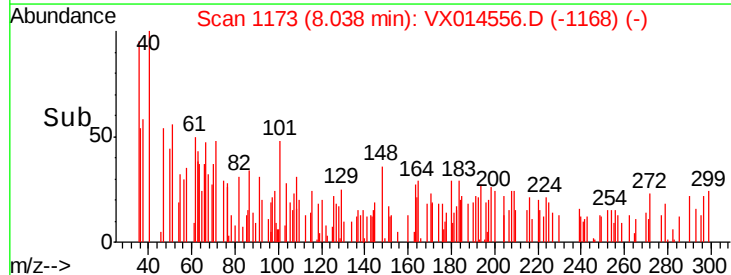
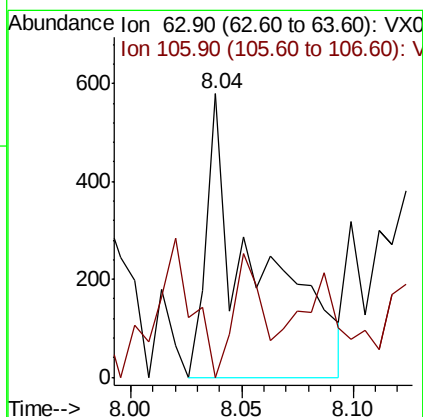
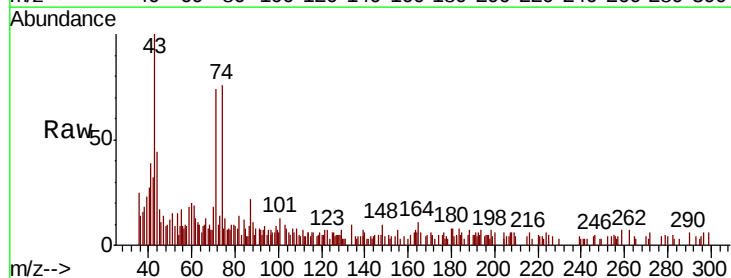
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.9	25.0	37.4#
39	29.4	40.7	61.1#

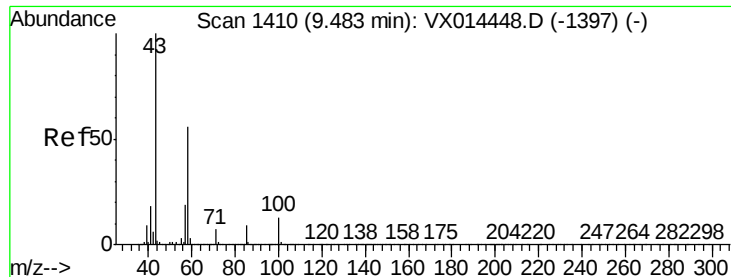


#58

2-Chloroethyl Vinyl ether
Concen: 0.317 ug/l
RT: 8.04 min Scan# 1173
Delta R.T. -0.27 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.6	23.6	35.4

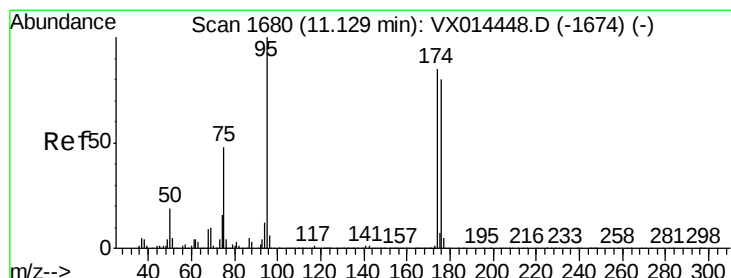
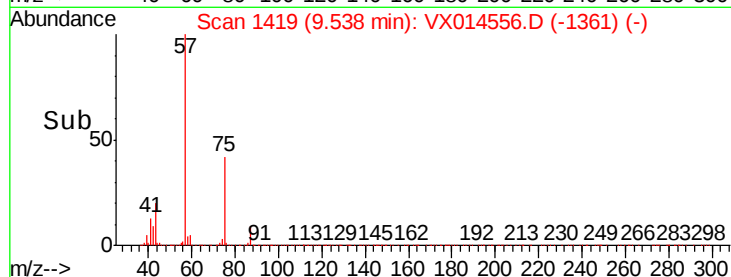
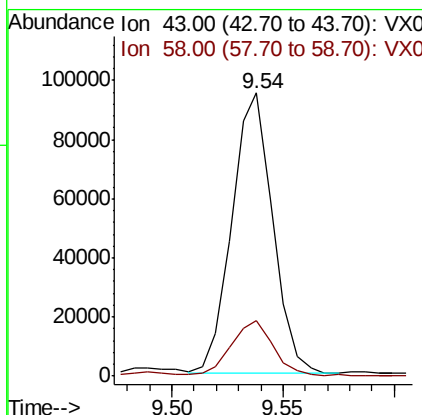
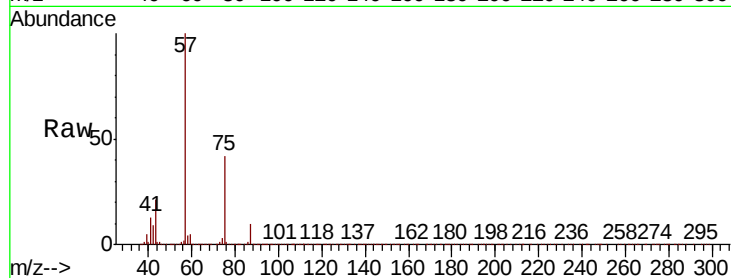




#59
2-Hexanone
Concen: 19.963 ug/l
RT: 9.54 min Scan# 1419
Delta R.T. 0.05 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

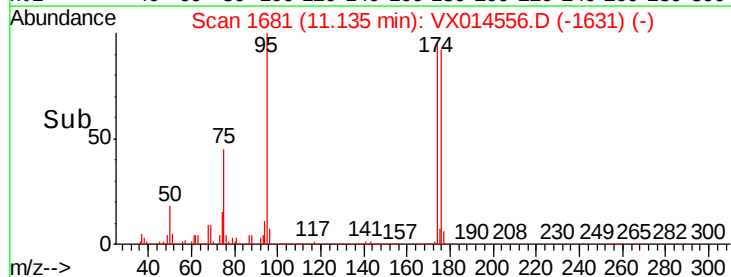
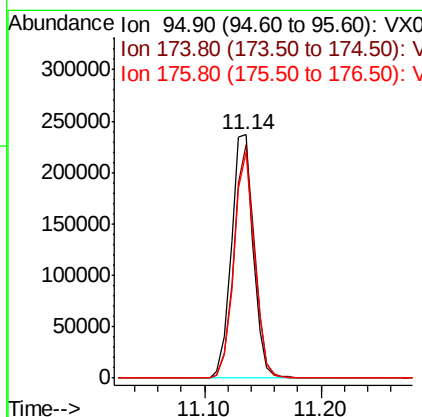
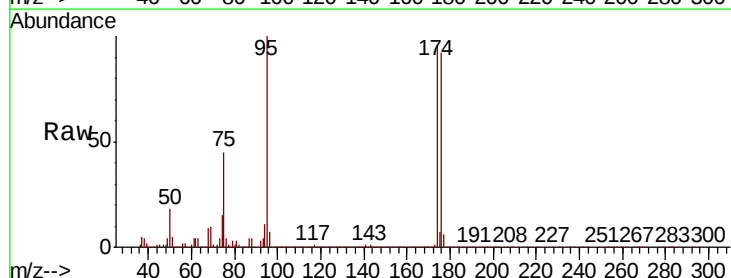
Instrument :
MSVOA_X
ClientSampleId :
SOIL-A

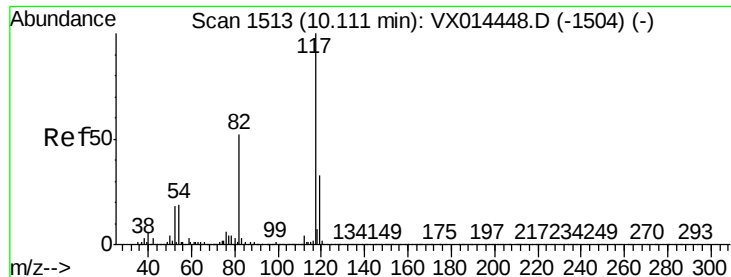
Tot Ion: 43 Resp: 119970
Ion Ratio Lower Upper
43 100
58 20.1 27.9 83.7#



#62
4-Bromofluorobenzene
Concen: 47.712 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Tgt Ion: 95 Resp: 310786
Ion Ratio Lower Upper
95 100
174 90.8 0.0 180.8
176 87.3 0.0 172.8

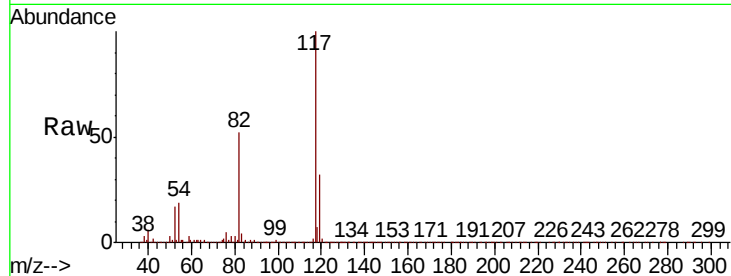




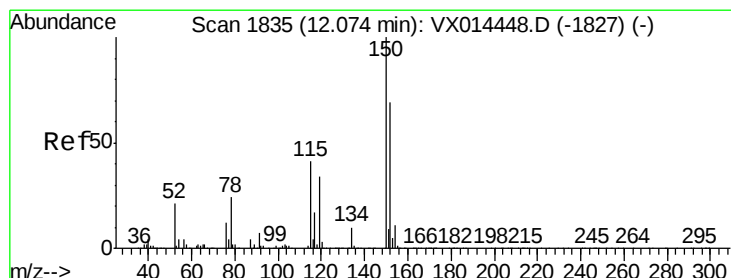
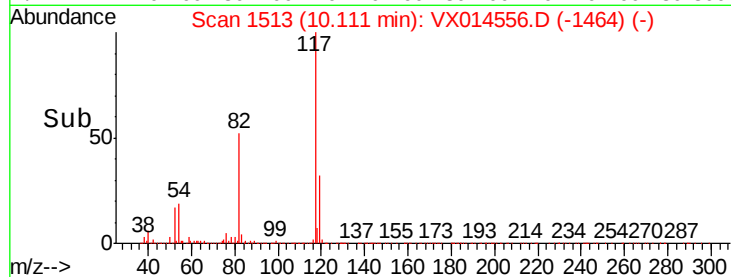
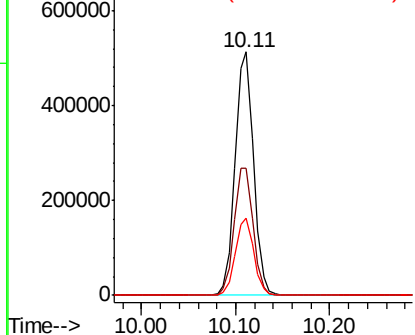
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Instrument :
MSVOA_X
ClientSampleId :
SOIL-A

Tot Ion:117 Resp: 693094
Ion Ratio Lower Upper
117 100
82 52.2 41.8 62.6
119 31.9 26.2 39.4

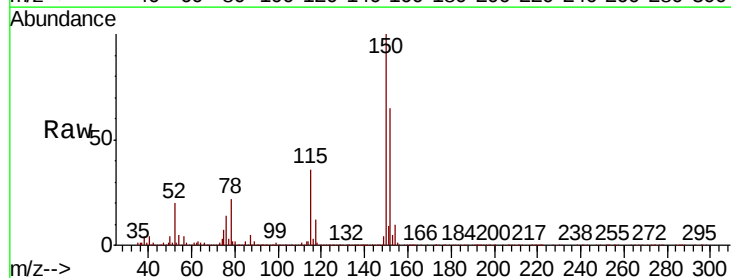


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

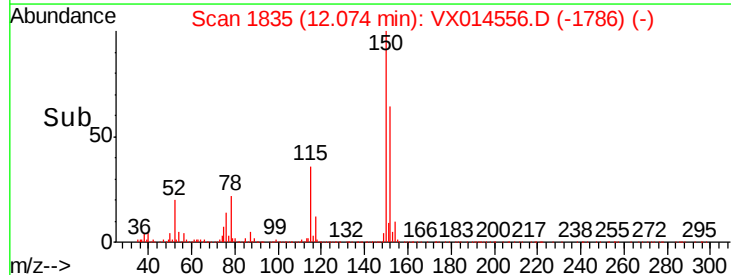
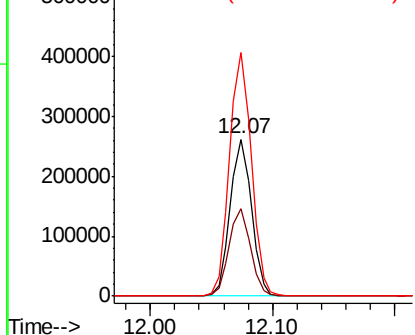


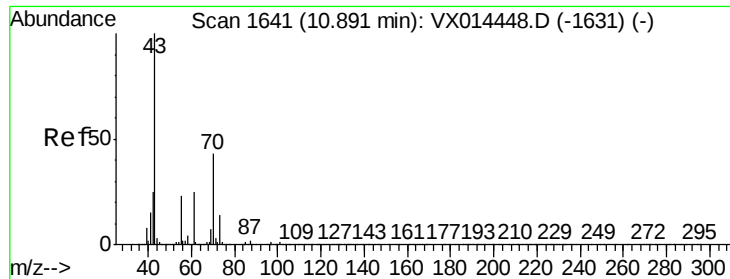
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Tgt Ion:152 Resp: 315872
Ion Ratio Lower Upper
152 100
115 55.8 39.5 118.3
150 158.0 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.617 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014556.D

Acq: 10 Jan 2020 23:43

Instrument :

MSVOA_X

ClientSampleId :

SOIL-A

Tot Ion: 43 Resp: 6038

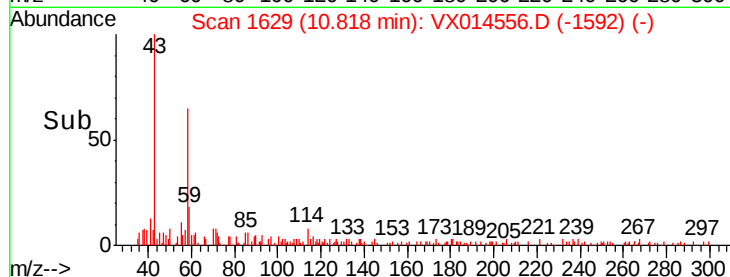
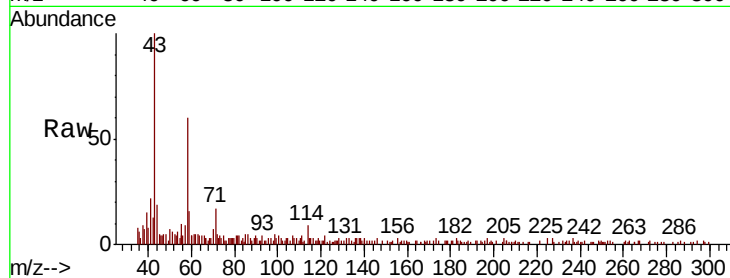
Ion Ratio Lower Upper

43 100

70 7.1 35.1 52.7#

55 9.3 19.3 28.9#

61 0.0 20.0 30.0#

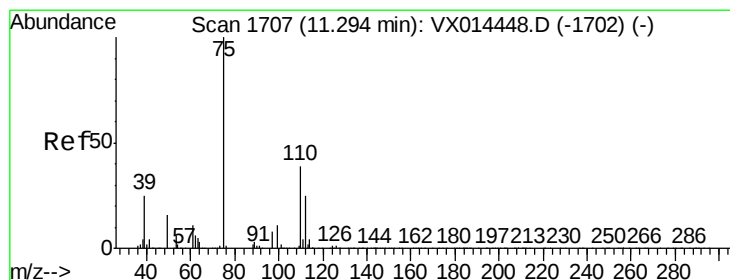
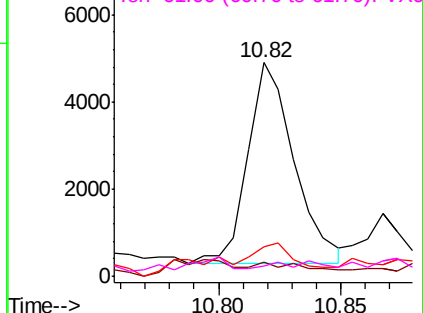


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.117 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014556.D

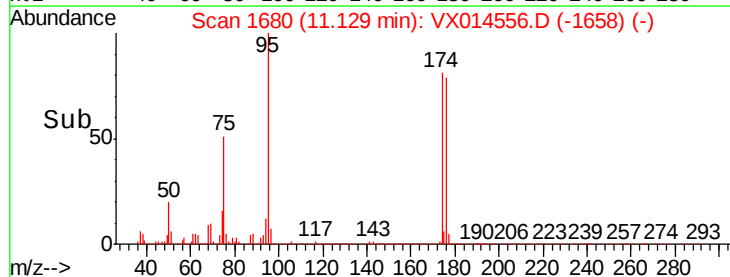
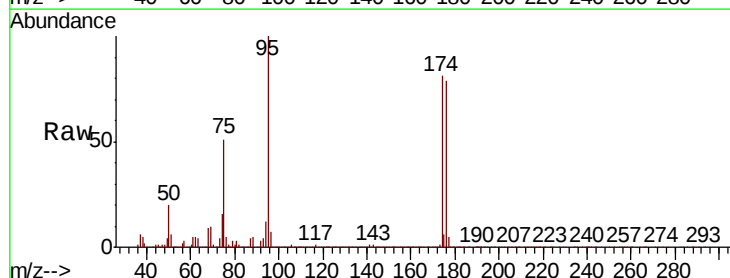
Acq: 10 Jan 2020 23:43

Tgt Ion: 75 Resp: 151079

Ion Ratio Lower Upper

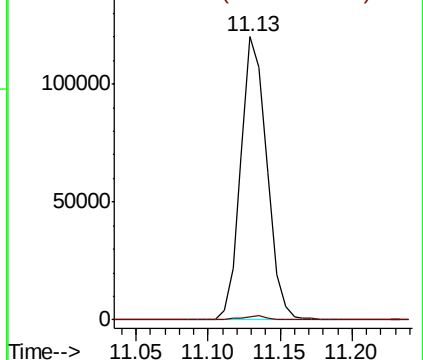
75 100

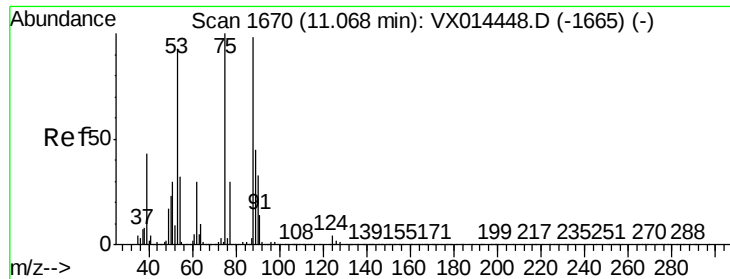
77 1.4 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

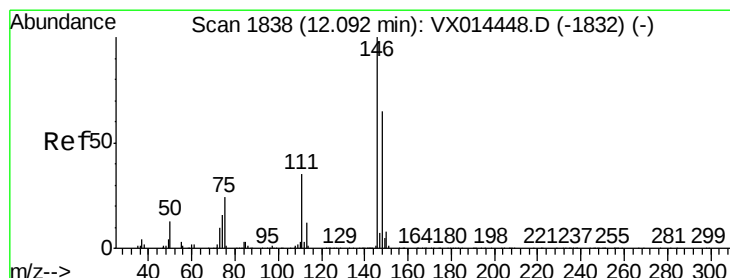
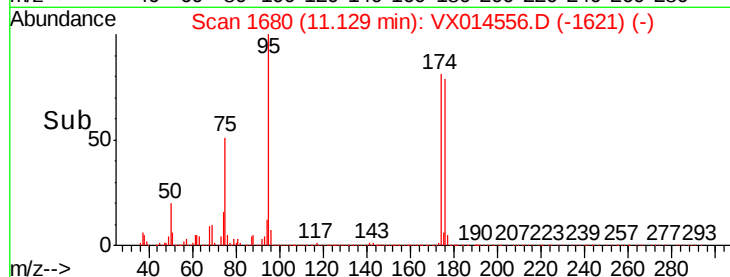
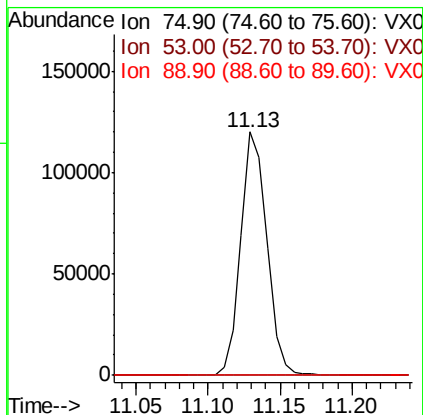
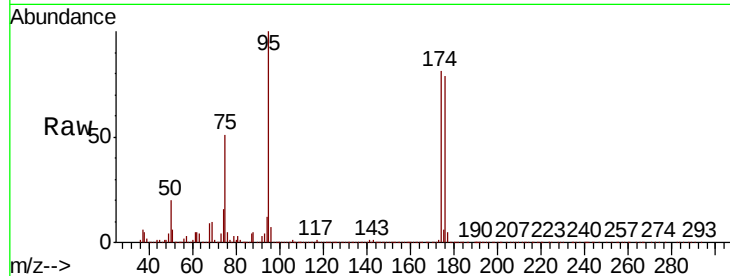




#81
trans-1,4-Dichloro-2-butene
Concen: 61.117 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

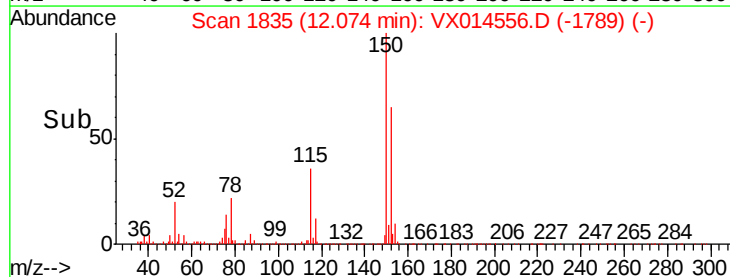
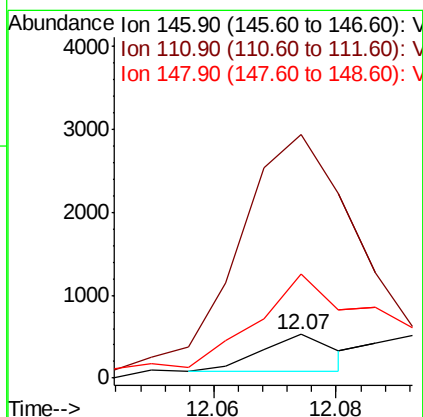
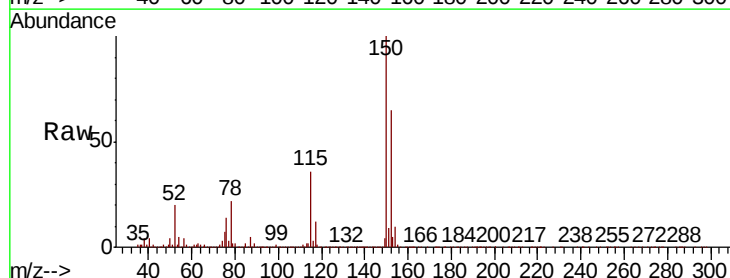
Instrument :
MSVOA_X
ClientSampleId :
SOIL-A

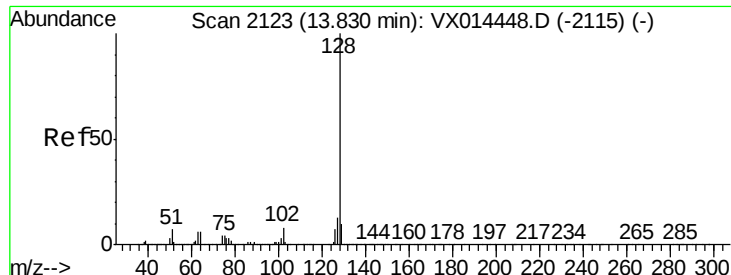
Tot Ion: 75 Resp: 151079
Ion Ratio Lower Upper
75 100
53 0.4 74.8 112.2#
89 0.0 36.3 54.5#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 12.07 min Scan# 1835
Delta R.T. -0.02 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Tgt Ion: 146 Resp: 377
Ion Ratio Lower Upper
146 100
111 1160.5 18.1 54.1#
148 618.8 32.1 96.3#





#95
Naphthalene
Concen: 0.268 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014556.D
Acq: 10 Jan 2020 23:43

Instrument :
MSVOA_X
ClientSampleId :
SOIL-A

Tot Ion	Ratio	Lower	Upper
128	100		
127	20.0	10.3	15.5#
129	13.8	8.7	13.1#

