

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005576.D
 Acq On : 25 Oct 2018 07:37
 Operator : JC/MD
 Sample : J5639-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-1

Quant Time: Oct 25 08:06:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 13:13:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	205793	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	310444	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	284106	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132934	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	130476	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	
35) Dibromofluoromethane	5.50	113	102382	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
50) Toluene-d8	8.71	98	375618	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
62) 4-Bromofluorobenzene	11.14	95	124452	43.63	ug/l	0.00
Spiked Amount			Recovery	=	87.26%	

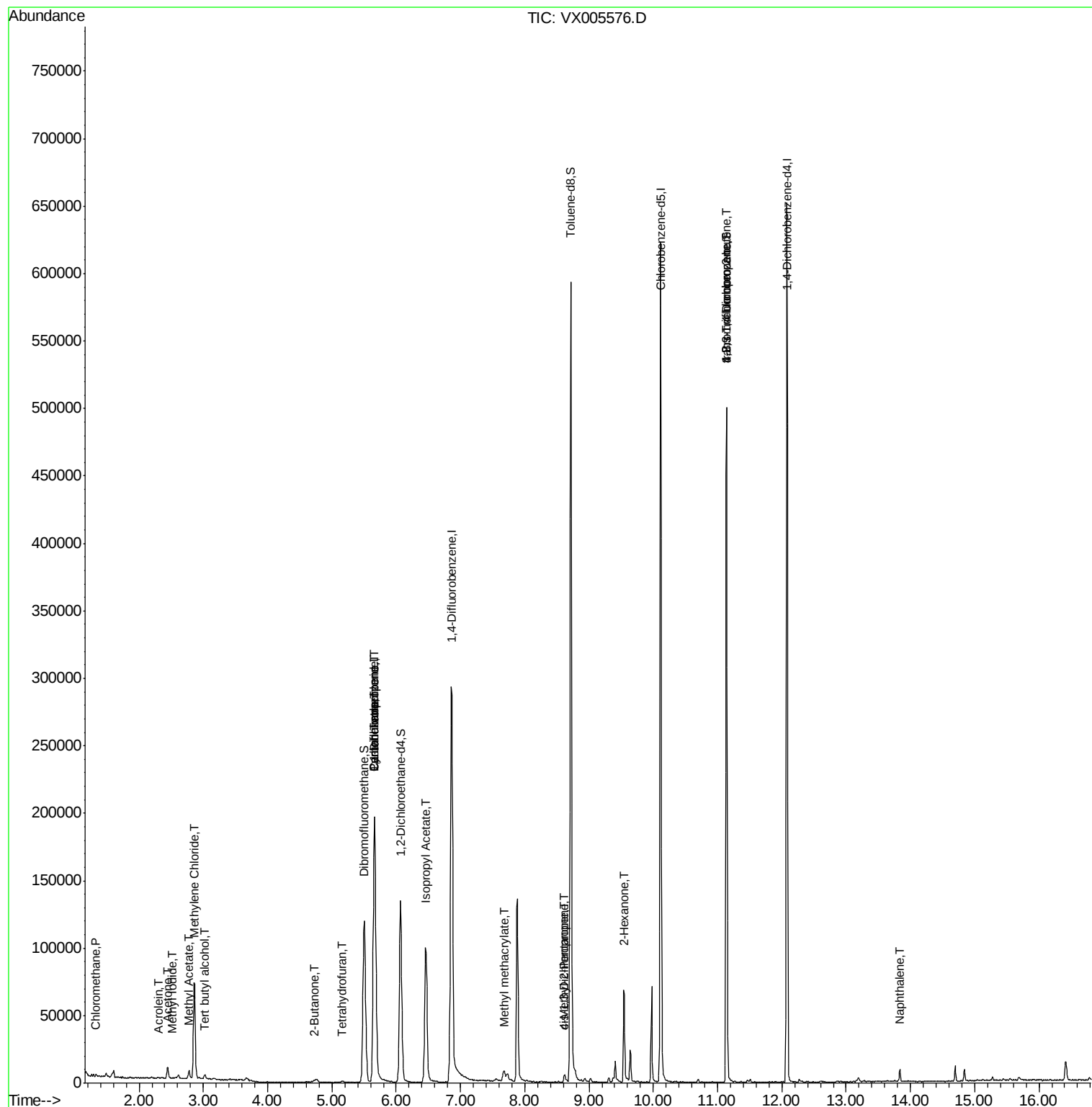
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1145	0.443	ug/l	89
10) Methyl Iodide	2.52	142	21	2.735	ug/l #	41
11) Tert butyl alcohol	3.01	59	2175	3.217	ug/l #	78
13) Acrolein	2.30	56	166	0.481	ug/l #	16
16) Acetone	2.44	43	8682	6.540	ug/l	89
18) Methyl Acetate	2.78	43	6745	0.613	ug/l	98
20) Methylene Chloride	2.85	84	32315	14.535	ug/l	91
25) 2-Butanone	4.71	43	1768	0.875	ug/l	99
29) Tetrahydrofuran	5.16	42	907	0.689	ug/l #	38
31) Cyclohexane	5.66	56	3884	1.147	ug/l #	19
36) 1,1-Dichloropropene	5.66	75	14224	4.721	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19006	5.990	ug/l #	16
43) Isopropyl Acetate	6.46	43	140343	24.361	ug/l	95
48) Methyl methacrylate	7.68	41	5134	1.829	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	2563	0.662	ug/l #	42
54) cis-1,3-Dichloropropene	8.62	75	808	0.239	ug/l #	75
59) 2-Hexanone	9.54	43	7907	2.590	ug/l #	55
76) 1,2,3-Trichloropropane	11.14	75	62317	23.015	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	62317	72.295	ug/l #	10
95) Naphthalene	13.83	128	5131	0.565	ug/l #	94

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

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Quant Title : SW846 8260
QLast Update : Wed Oct 24 13:13:34 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005576.D

Acq: 25 Oct 2018 07:37

Instrument :

MSVOA_X

ClientSampleId :

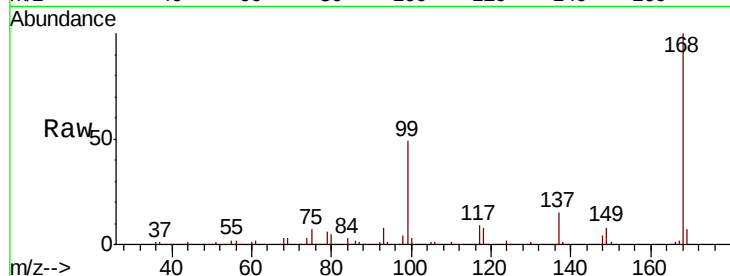
BS-SOIL-1

Tot Ion:168 Resp: 205793

Ion Ratio Lower Upper

168 100

99 48.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

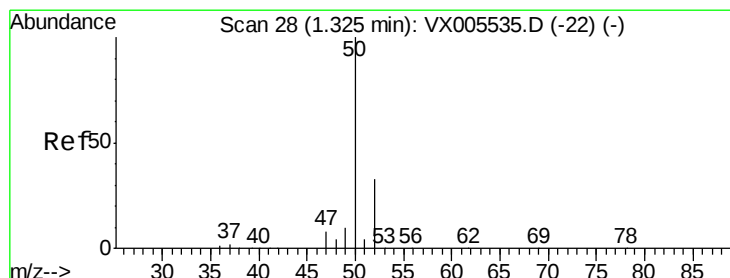
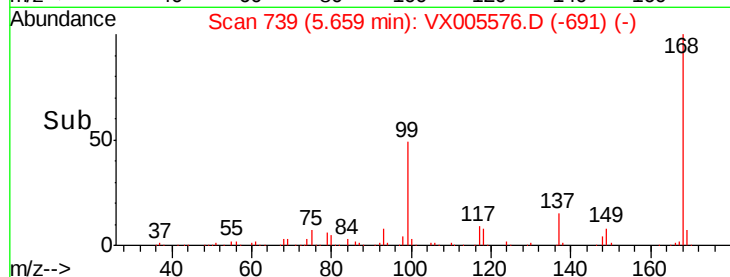
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.443 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX005576.D

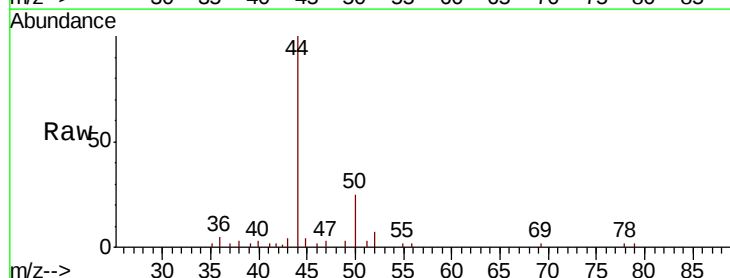
Acq: 25 Oct 2018 07:37

Tgt Ion: 50 Resp: 1145

Ion Ratio Lower Upper

50 100

52 26.7 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

1000

800

600

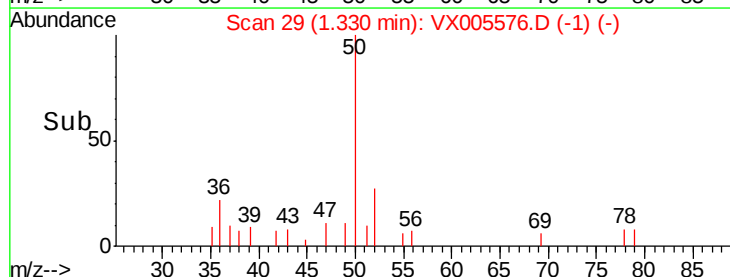
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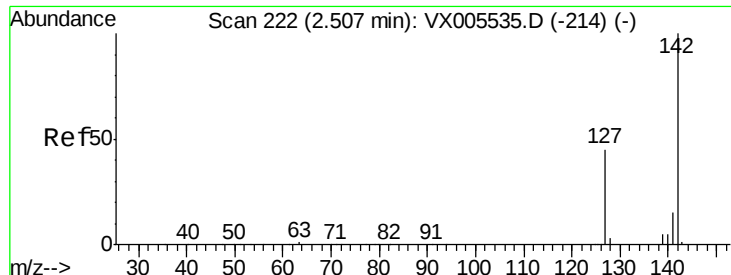
200

0

Time-->

1.30 1.35 1.40

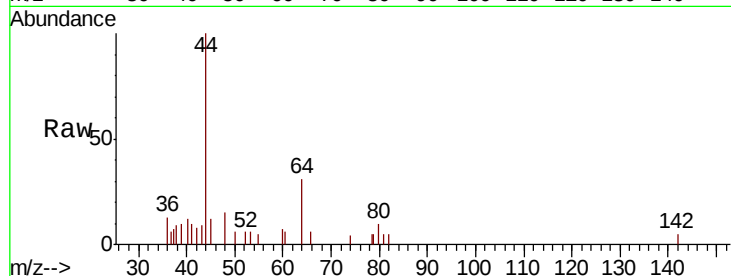




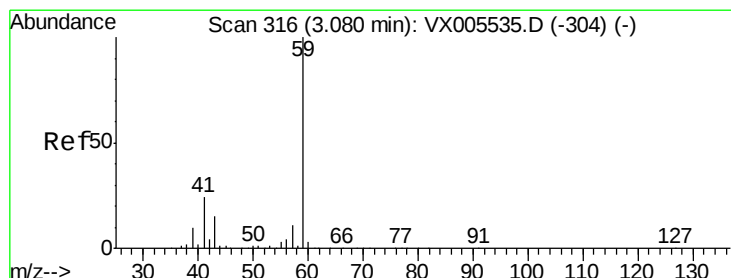
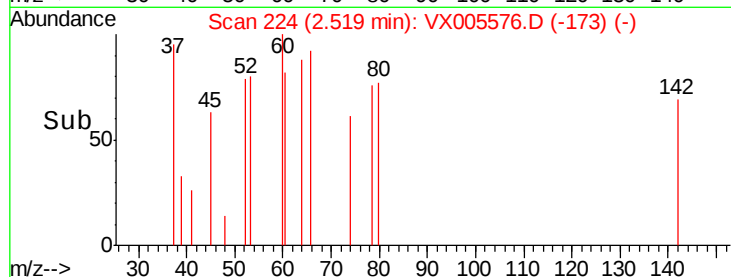
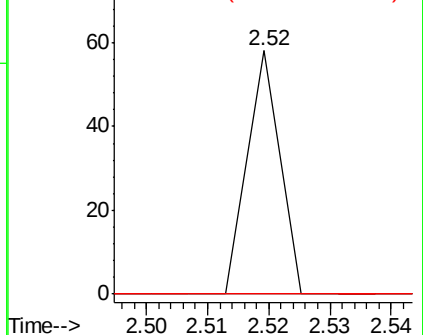
#10
Methvl Iodide
Concen: 2.735 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX005576.D
Acq: 25 Oct 2018 07:37

Instrument :
MSVOA_X
ClientSampleId :
BS-SOIL-1

Tot Ion:142 Resp: 21
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#

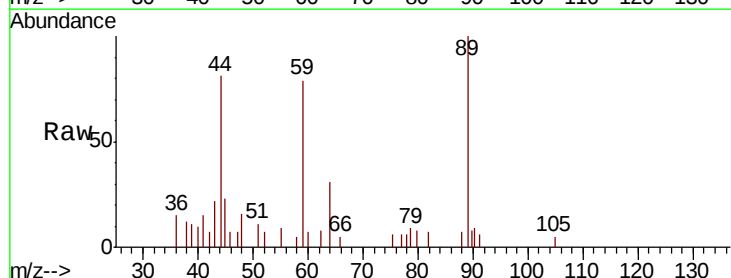


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

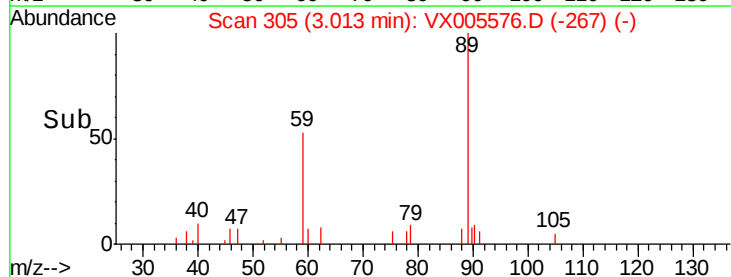
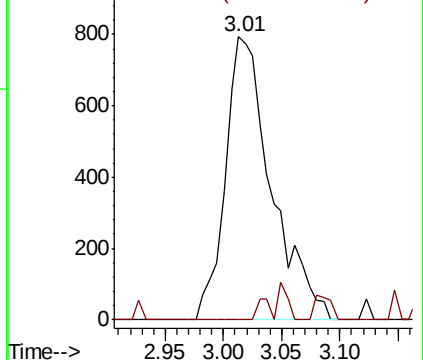


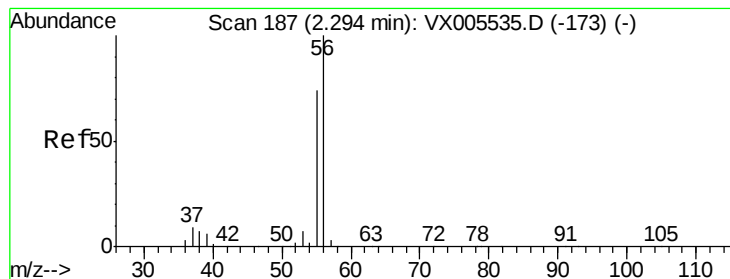
#11
Tert butyl alcohol
Concen: 3.217 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.07 min
Lab File: VX005576.D
Acq: 25 Oct 2018 07:37

Tgt Ion: 59 Resp: 2175
Ion Ratio Lower Upper
59 100
57 2.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.481 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX005576.D

Acq: 25 Oct 2018 07:37

Instrument :

MSVOA_X

ClientSampleId :

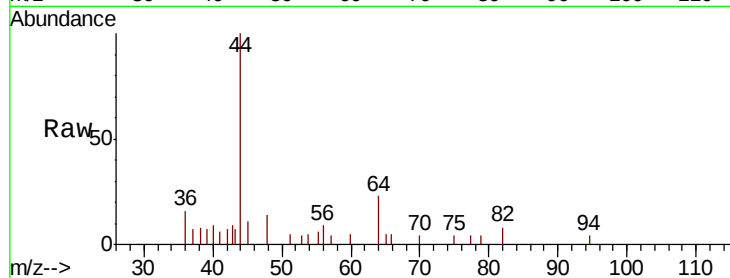
BS-SOIL-1

Tot Ion: 56 Resp: 166

Ion Ratio Lower Upper

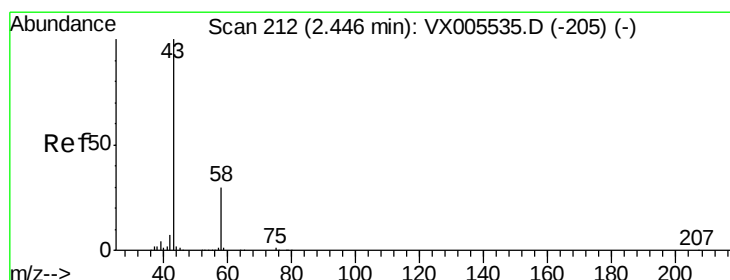
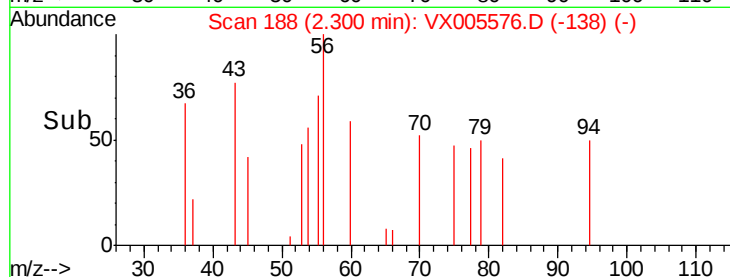
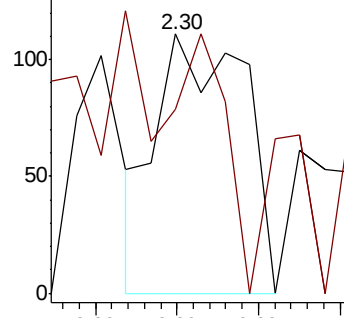
56 100

55 0.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 6.540 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005576.D

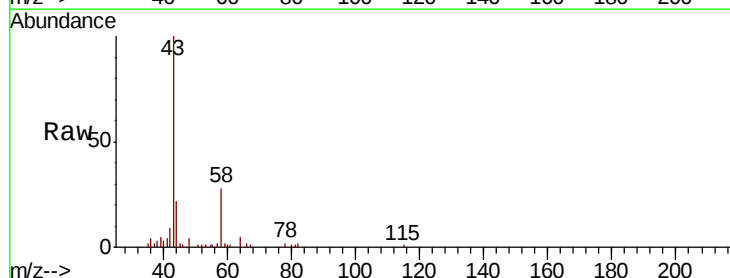
Acq: 25 Oct 2018 07:37

Tgt Ion: 43 Resp: 8682

Ion Ratio Lower Upper

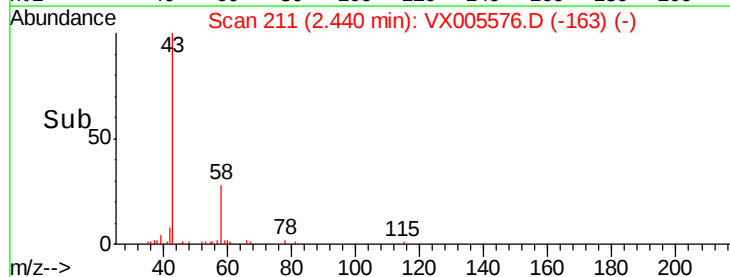
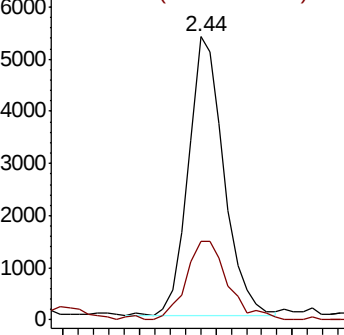
43 100

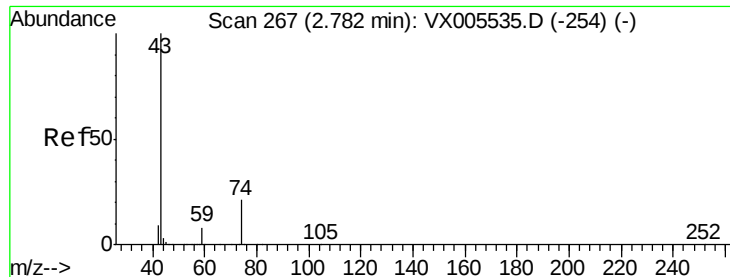
58 26.9 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

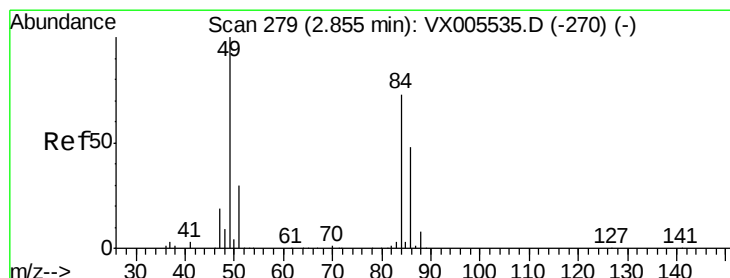
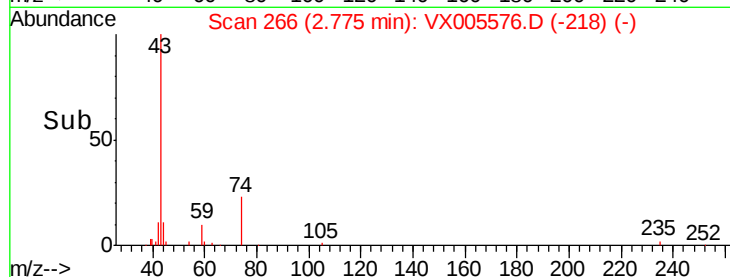
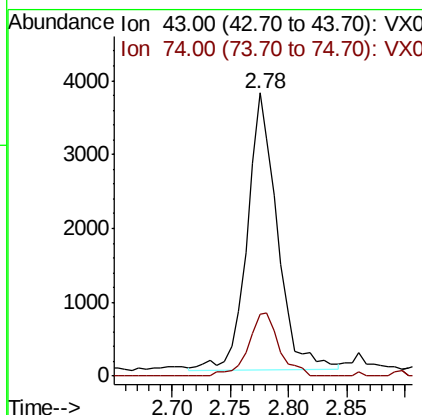
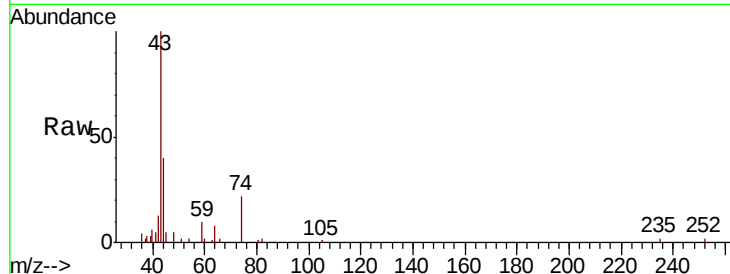




#18
Methvl Acetate
Concen: 0.613 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005576.D
Acq: 25 Oct 2018 07:37

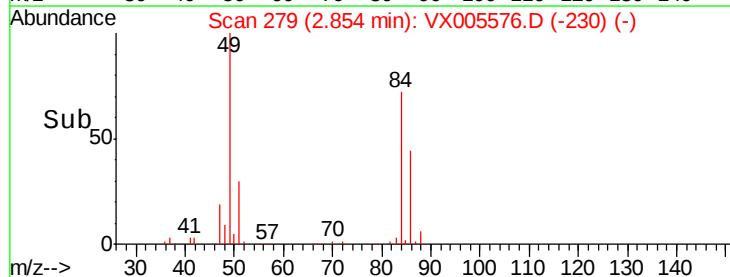
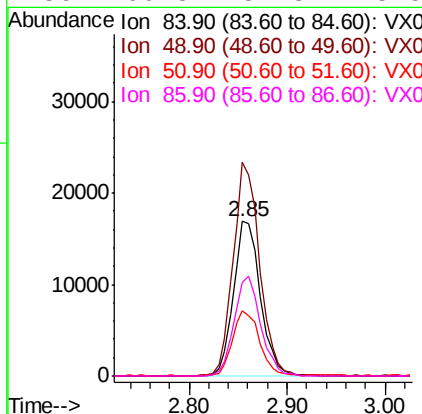
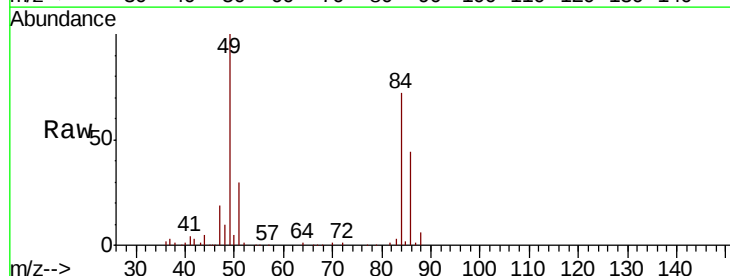
Instrument :
MSVOA_X
ClientSampleId :
BS-SOIL-1

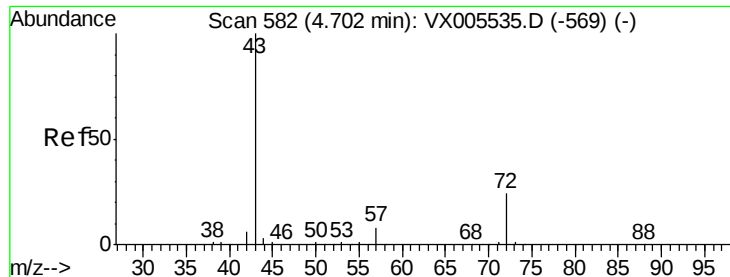
Tot Ion: 43 Resp: 6745
Ion Ratio Lower Upper
43 100
74 23.3 19.4 29.2



#20
Methylene Chloride
Concen: 14.535 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005576.D
Acq: 25 Oct 2018 07:37

Tgt Ion: 84 Resp: 32315
Ion Ratio Lower Upper
84 100
49 138.4 101.2 151.8
51 42.1 29.5 44.3
86 60.8 52.3 78.5





#25

2-Butanone

Concen: 0.875 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX005576.D

Acq: 25 Oct 2018 07:37

Instrument :

MSVOA_X

ClientSampled :

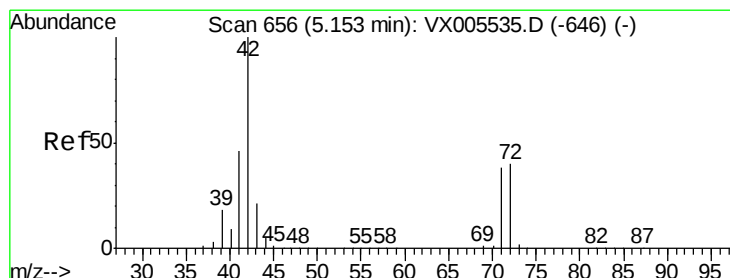
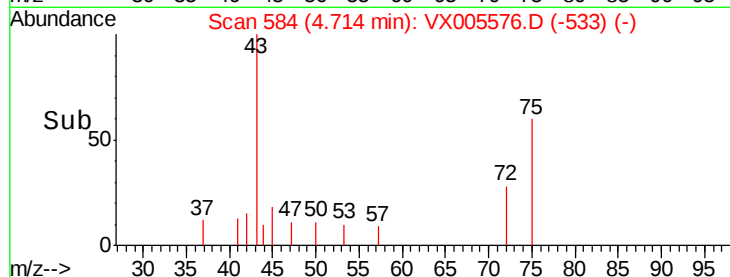
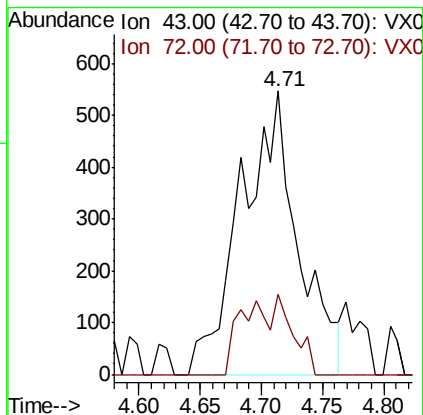
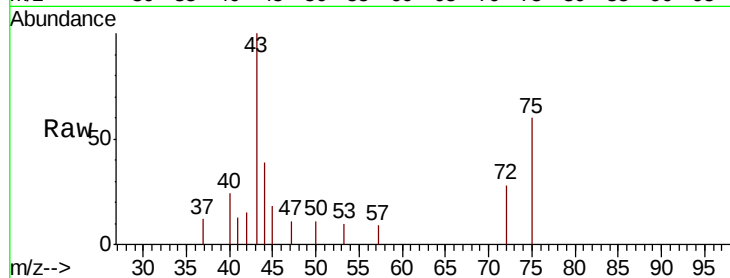
BS-SOIL-1

Tot Ion: 43 Resp: 1768

Ion Ratio Lower Upper

43 100

72 28.2 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.689 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005576.D

Acq: 25 Oct 2018 07:37

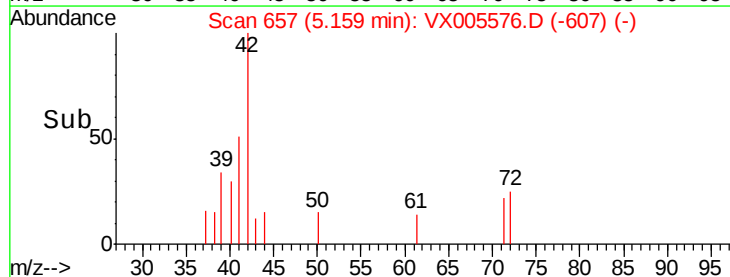
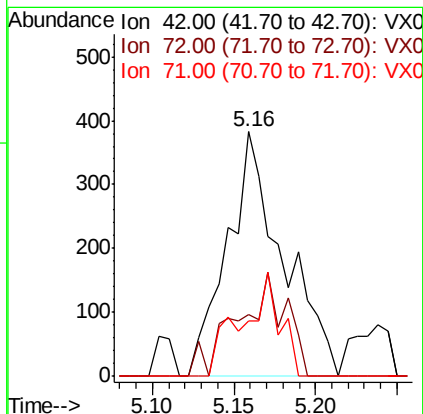
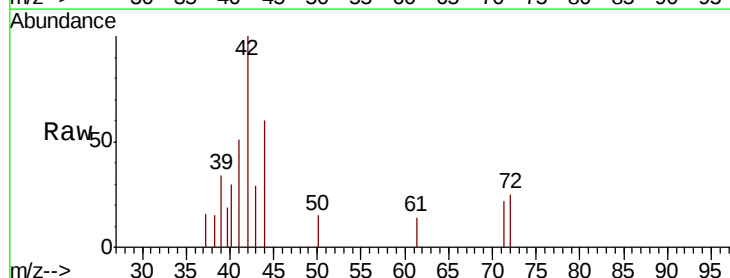
Tgt Ion: 42 Resp: 907

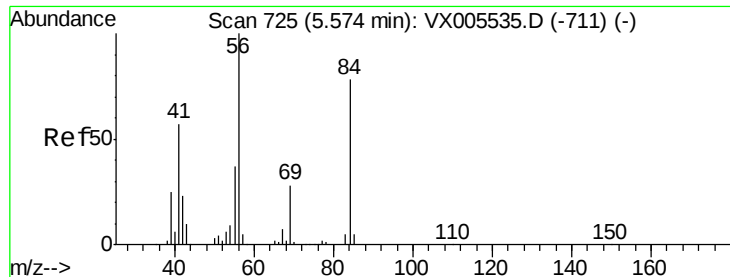
Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

71 9.5 34.5 51.7#

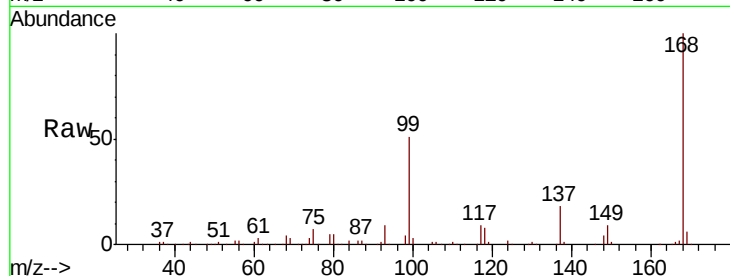




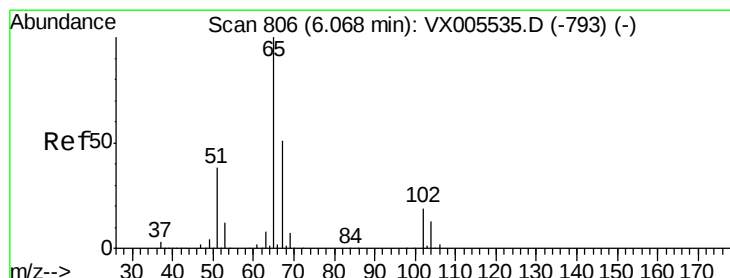
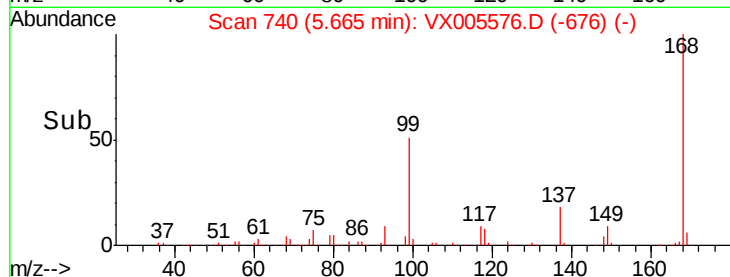
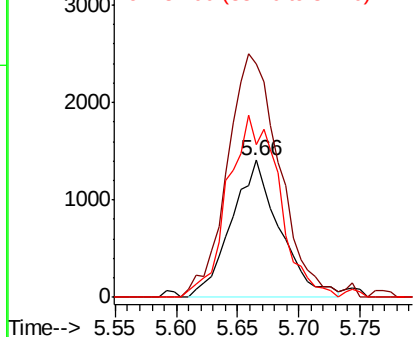
#31
Cyclohexane
Concen: 1.147 ug/l
RT: 5.66 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005576.D
Acq: 25 Oct 2018 07:37

Instrument :
MSVOA_X
ClientSampled :
BS-SOIL-1

Tot Ion: 56 Resp: 3884
Ion Ratio Lower Upper
56 100
69 165.7 25.4 38.2#
84 111.8 71.4 107.2#

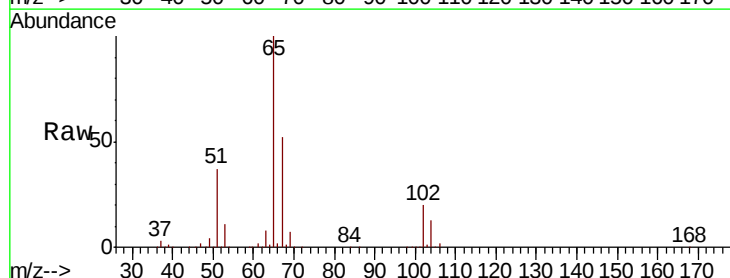


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

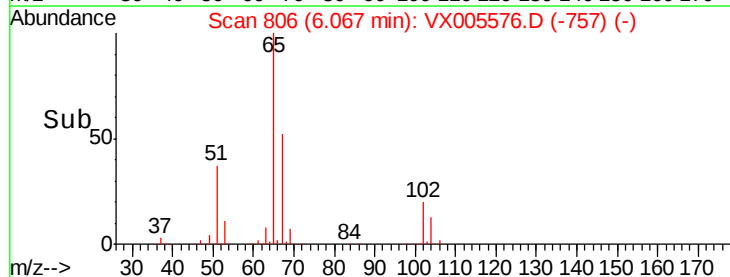
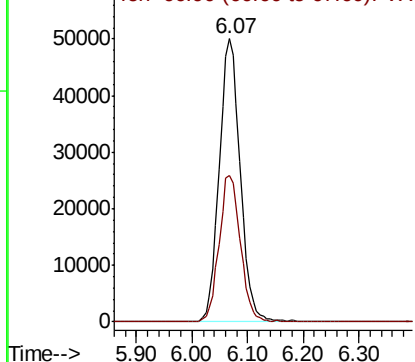


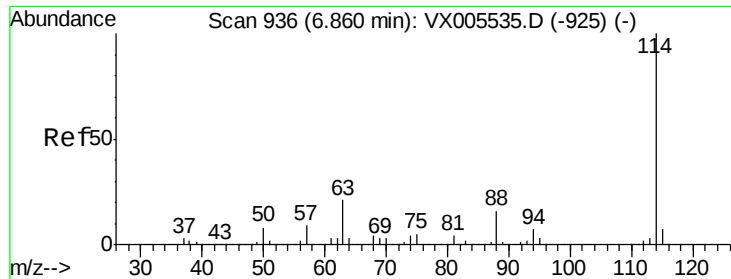
#33
1,2-Dichloroethane-d4
Concen: 51.939 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005576.D
Acq: 25 Oct 2018 07:37

Tgt Ion: 65 Resp: 130476
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

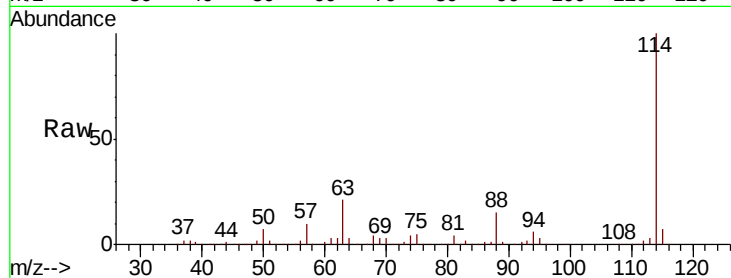




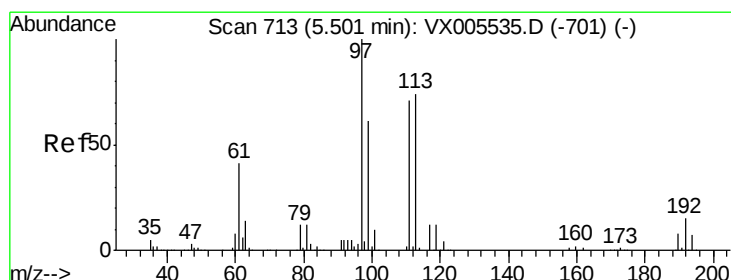
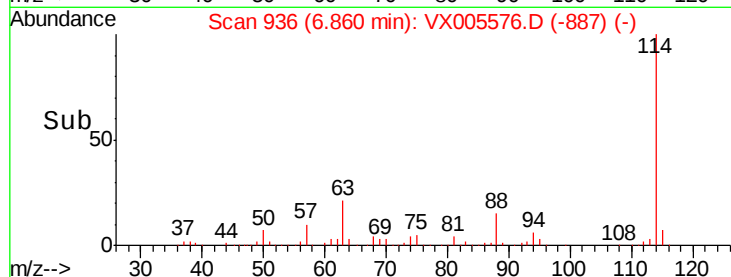
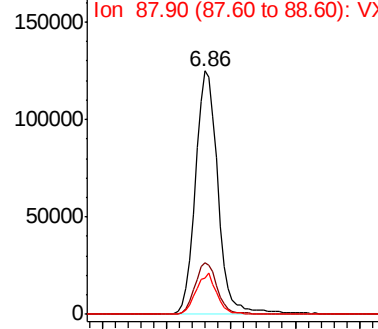
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005576.D
 Acq: 25 Oct 2018 07:37

Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-1

Tot Ion:114 Resp: 310444
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 39.0
 88 15.1 0.0 30.4

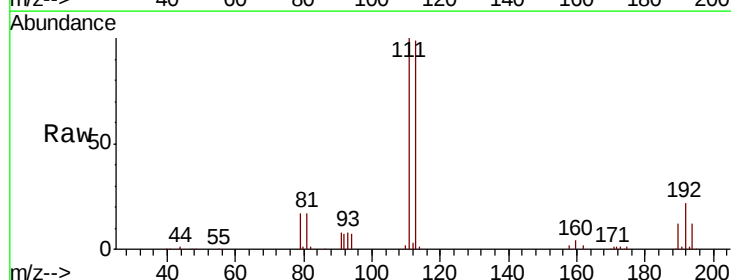


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

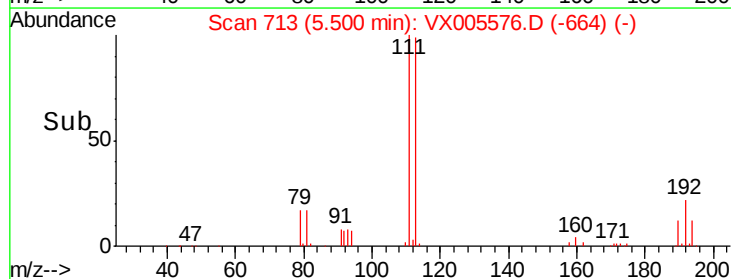
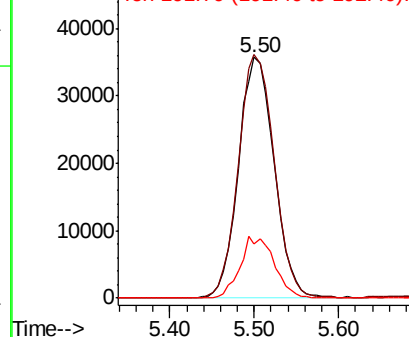


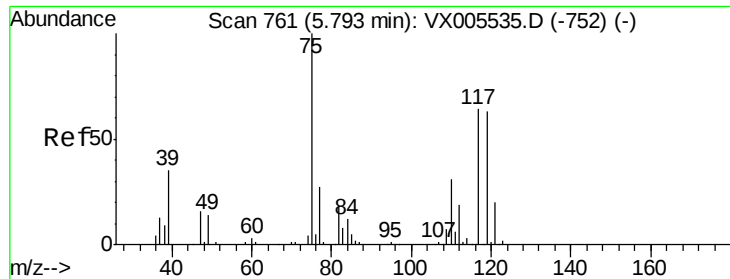
#35
 Dibromofluoromethane
 Concen: 48.705 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005576.D
 Acq: 25 Oct 2018 07:37

Tgt Ion:113 Resp: 102382
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 24.4 19.4 29.2



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: 4.721 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005576.D

Acq: 25 Oct 2018 07:37

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-1

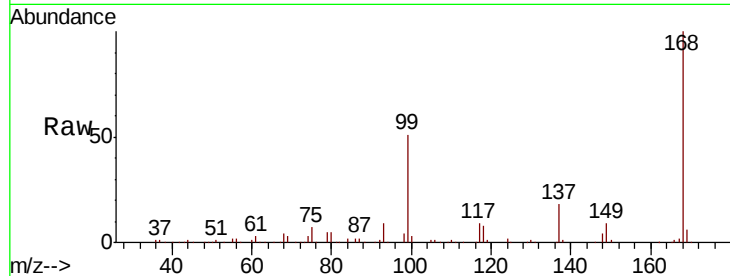
Tot Ion: 75 Resp: 14224

Ion Ratio Lower Upper

75 100

110 9.6 18.0 54.0#

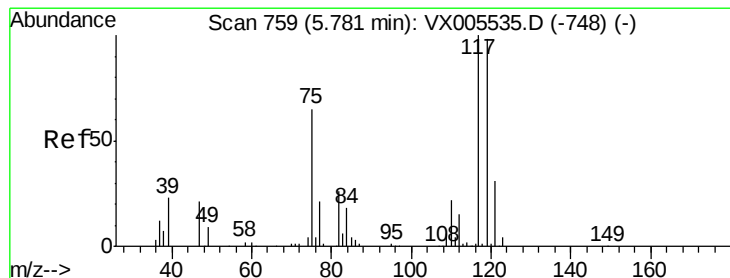
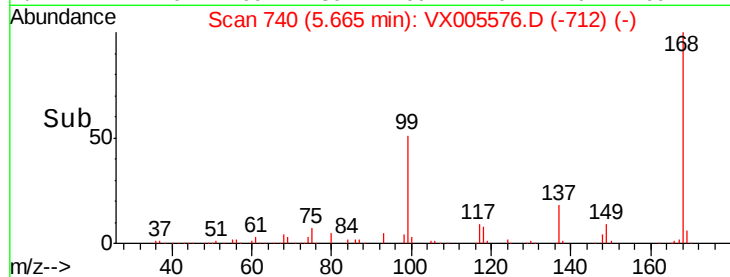
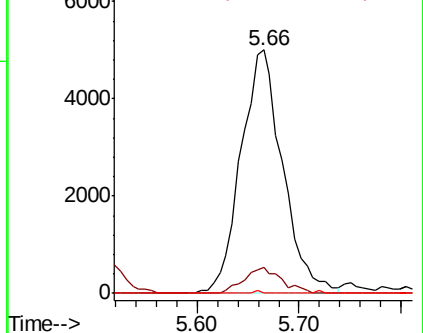
77 0.2 24.6 36.8#



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: 5.990 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005576.D

Acq: 25 Oct 2018 07:37

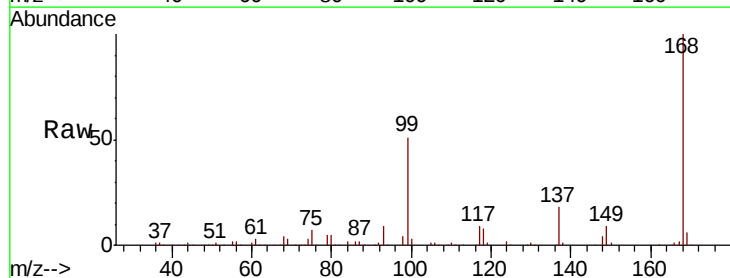
Tgt Ion: 117 Resp: 19006

Ion Ratio Lower Upper

117 100

119 7.0 78.8 118.2#

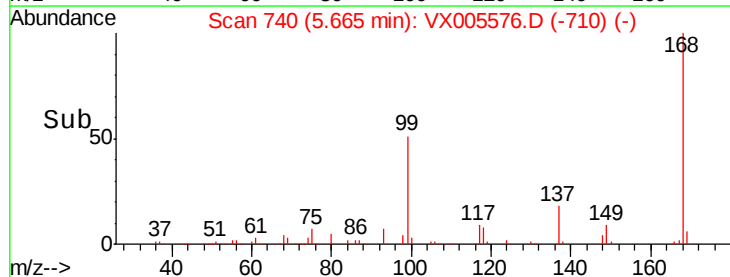
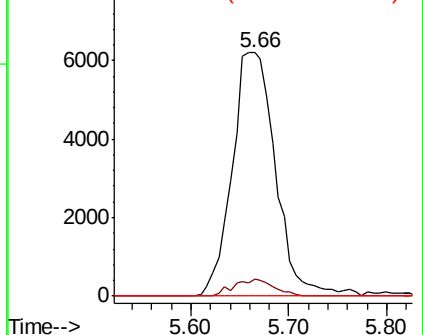
121 0.0 24.9 37.3#

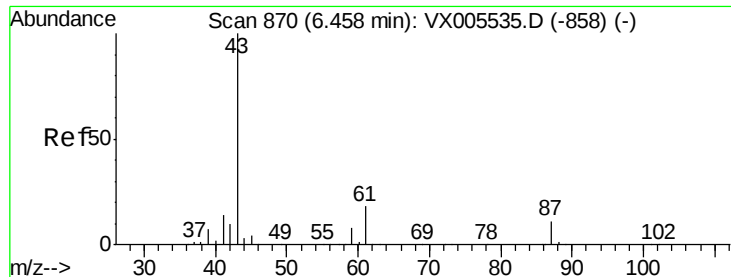


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



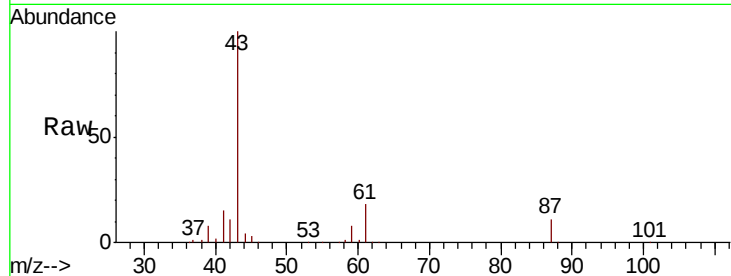


#43

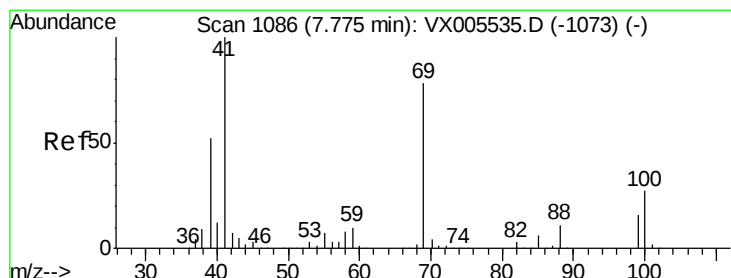
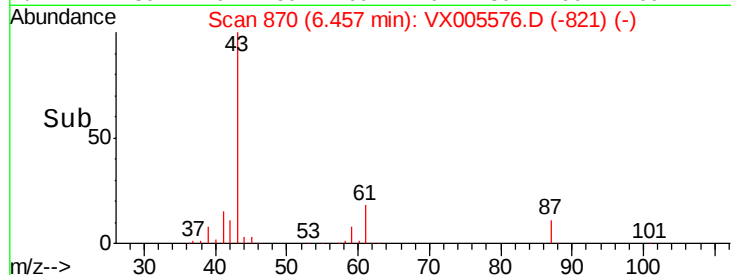
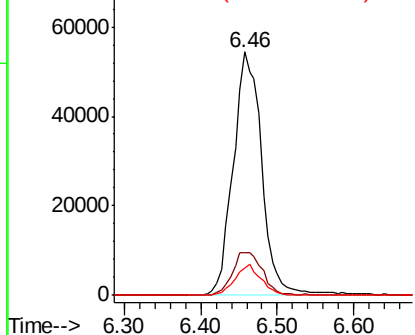
Isopropyl Acetate
 Concen: 24.361 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.00 min
 Lab File: VX005576.D
 Acq: 25 Oct 2018 07:37

Instrument :
 MSVOA_X
 ClientSampled :
 BS-SOIL-1

Tot Ion: 43 Resp: 140343
 Ion Ratio Lower Upper
 43 100
 61 19.0 17.0 25.4
 87 11.8 11.4 17.2



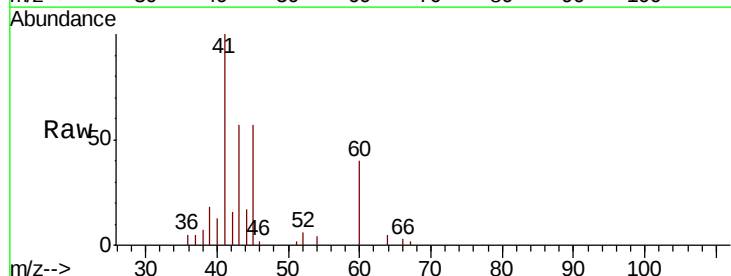
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



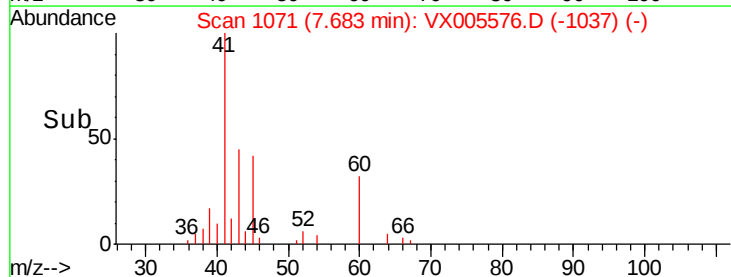
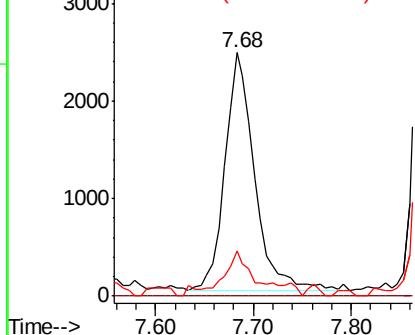
#48

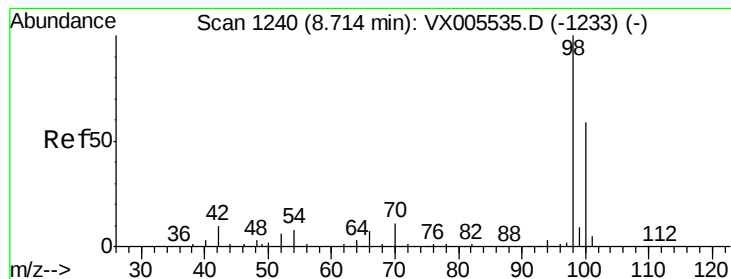
Methyl methacrylate
 Concen: 1.829 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX005576.D
 Acq: 25 Oct 2018 07:37

Tgt Ion: 41 Resp: 5134
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.2 105.4#
 39 20.6 42.7 64.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 49.730 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005576.D

Acq: 25 Oct 2018 07:37

Instrument :

MSVOA_X

ClientSampleId :

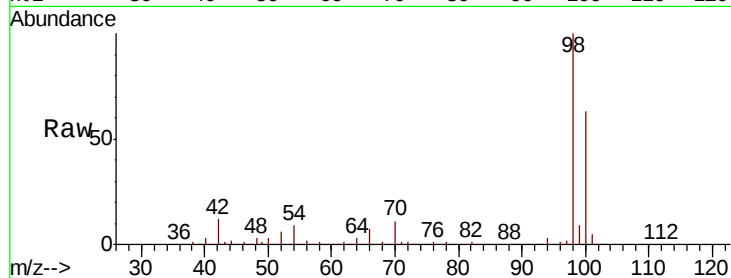
BS-SOIL-1

Tot Ion: 98 Resp: 375618

Ion Ratio Lower Upper

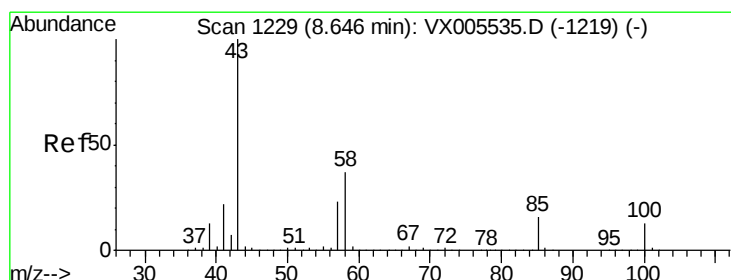
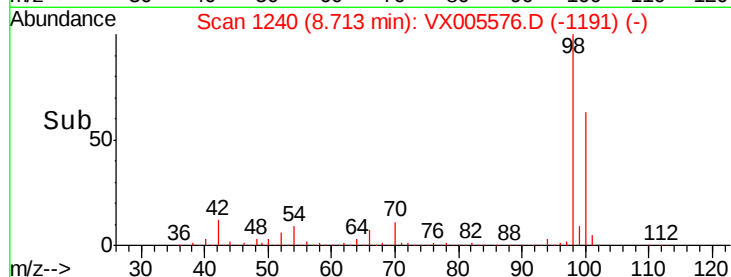
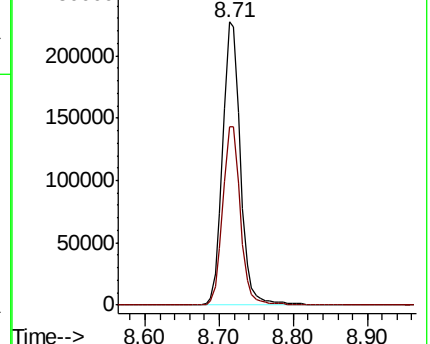
98 100

100 62.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.662 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX005576.D

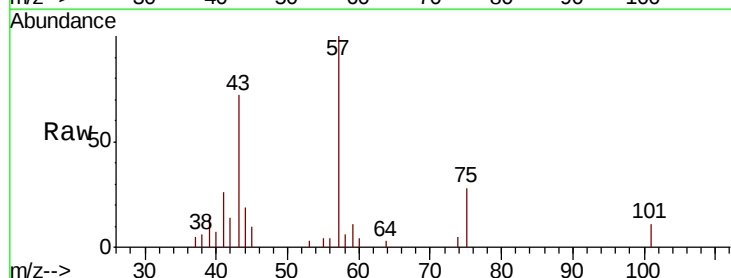
Acq: 25 Oct 2018 07:37

Tgt Ion: 43 Resp: 2563

Ion Ratio Lower Upper

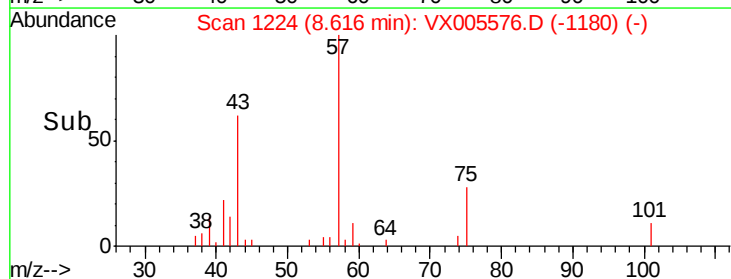
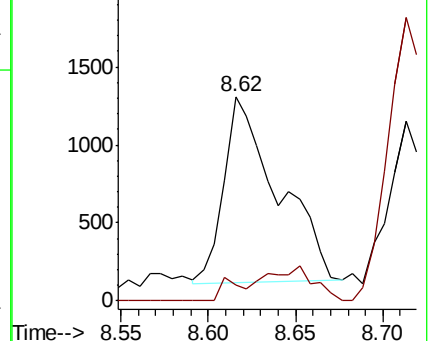
43 100

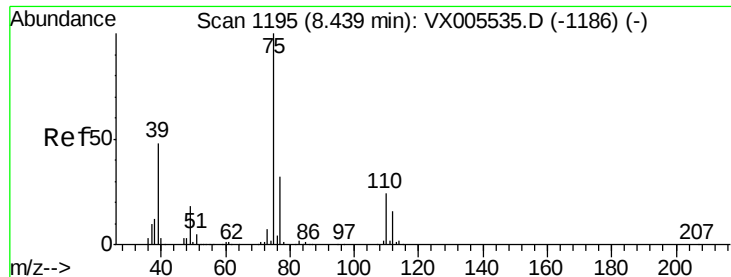
58 4.7 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

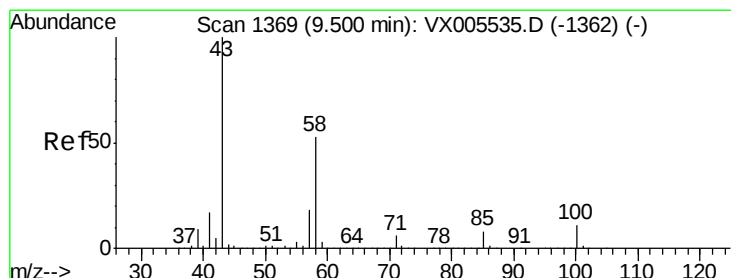
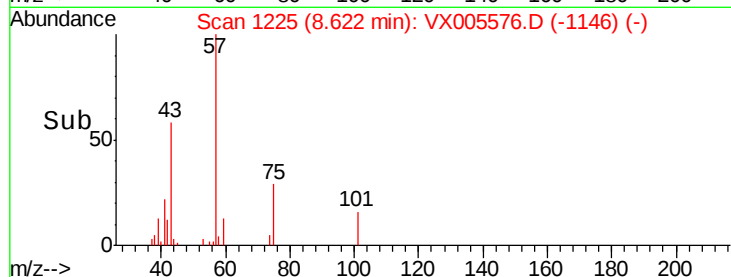
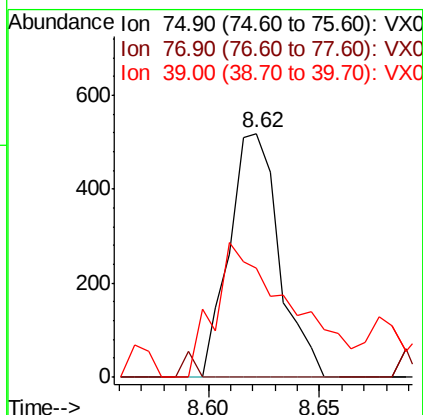
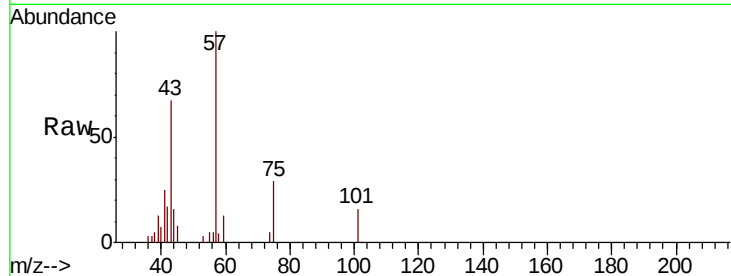




#54
 cis-1,3-Dichloropropene
 Concen: 0.239 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX005576.D
 Acq: 25 Oct 2018 07:37

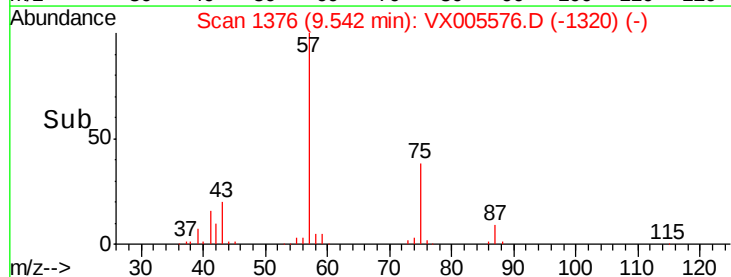
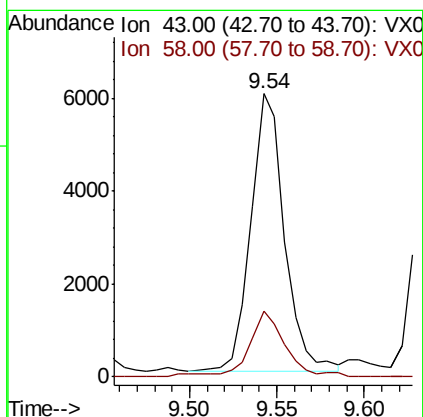
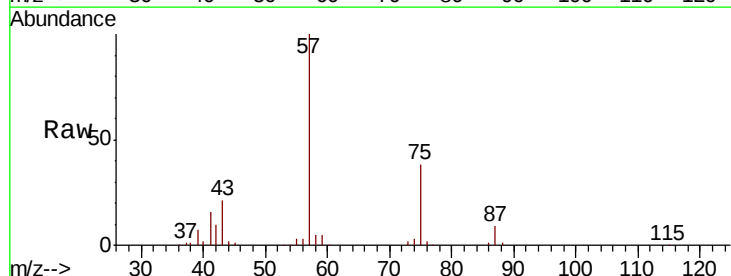
Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-1

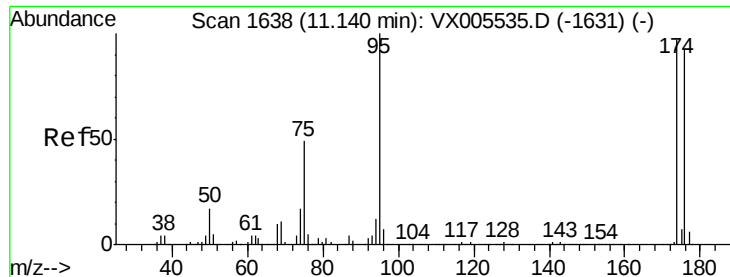
Tot Ion: 75 Resp: 808
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 44.8 36.4 54.6



#59
 2-Hexanone
 Concen: 2.590 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.04 min
 Lab File: VX005576.D
 Acq: 25 Oct 2018 07:37

Tgt Ion: 43 Resp: 7907
 Ion Ratio Lower Upper
 43 100
 58 24.8 29.0 87.0#

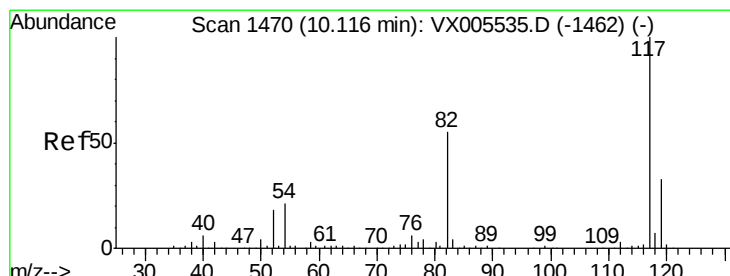
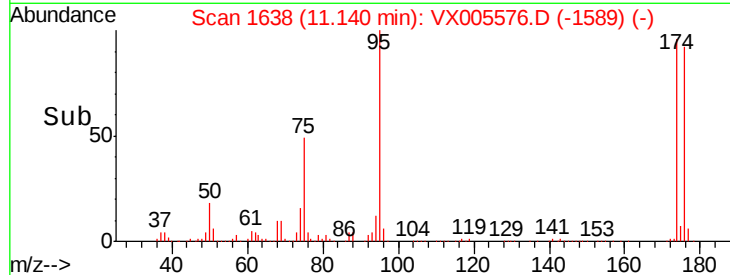
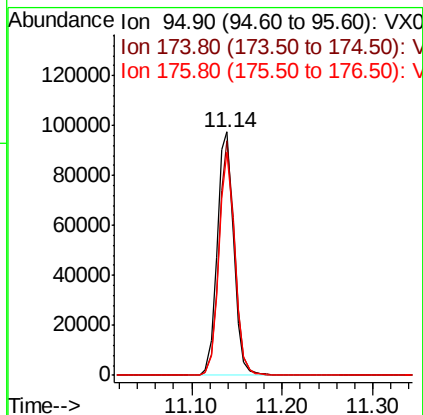
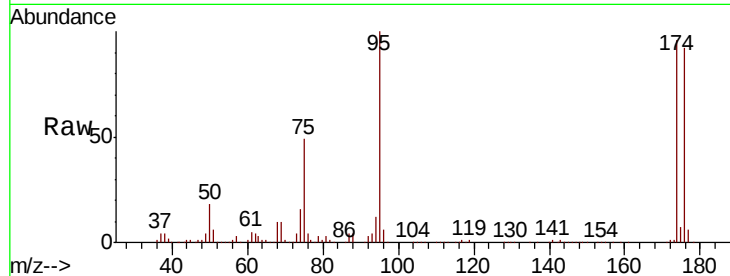




#62
4-Bromofluorobenzene
Concen: 43.630 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005576.D
Acq: 25 Oct 2018 07:37

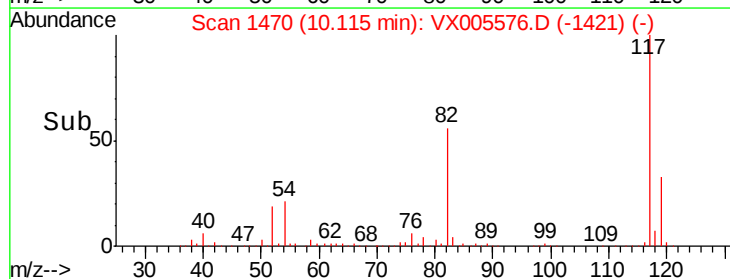
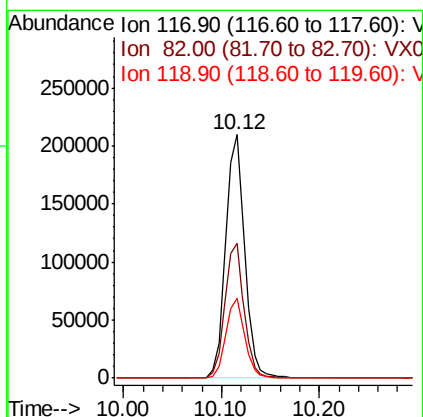
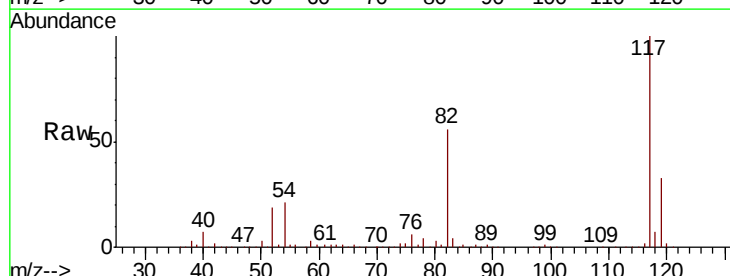
Instrument :
MSVOA_X
ClientSampleId :
BS-SOIL-1

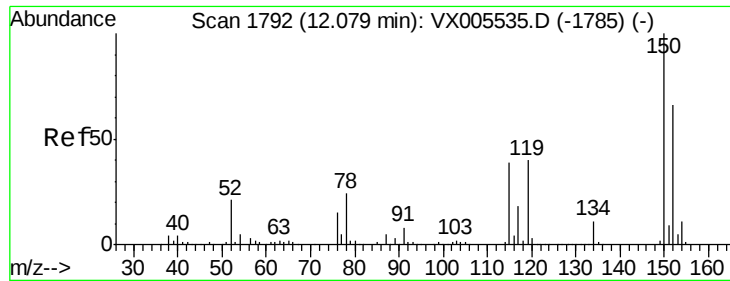
Tot Ion: 95 Resp: 124452
Ion Ratio Lower Upper
95 100
174 92.3 0.0 185.2
176 88.5 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005576.D
Acq: 25 Oct 2018 07:37

Tgt Ion: 117 Resp: 284106
Ion Ratio Lower Upper
117 100
82 55.6 47.8 71.6
119 32.8 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005576.D

Acq: 25 Oct 2018 07:37

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-1

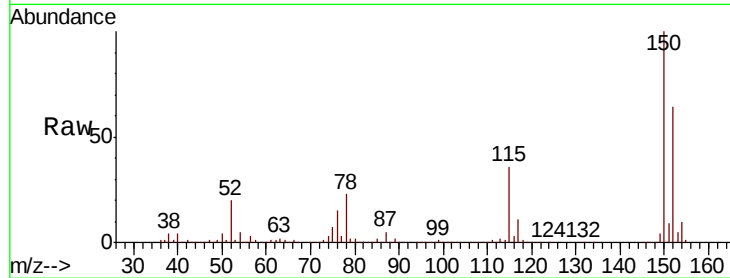
Tot Ion:152 Resp: 132934

Ion Ratio Lower Upper

152 100

115 56.0 39.0 117.0

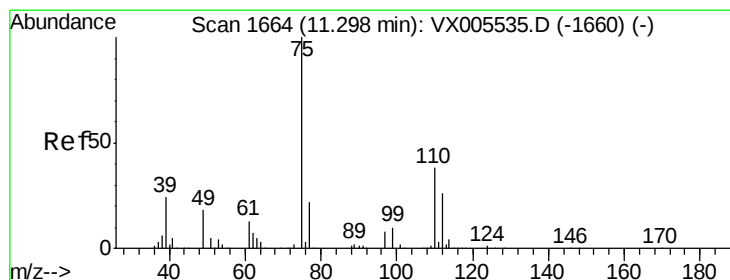
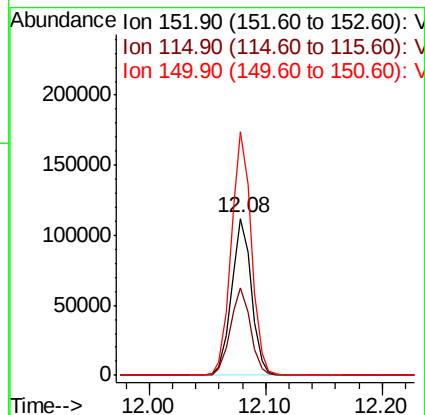
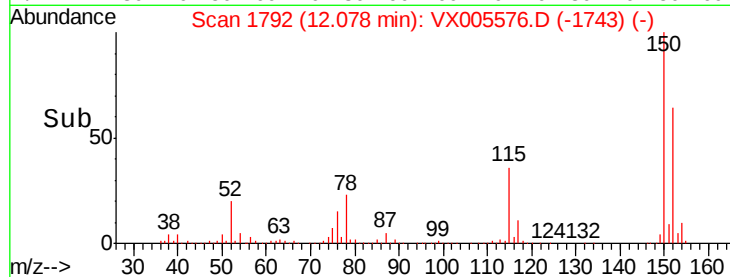
150 156.7 0.0 351.0



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



#76

1,2,3-Trichloropropane

Concen: 23.015 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005576.D

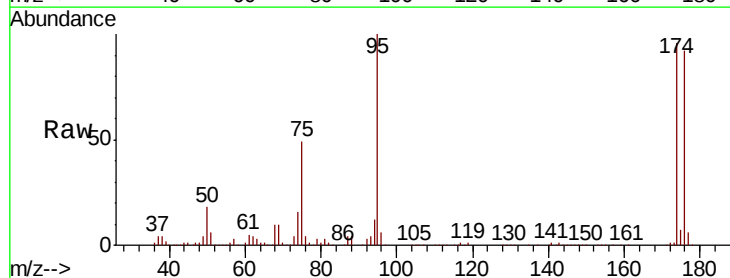
Acq: 25 Oct 2018 07:37

Tgt Ion: 75 Resp: 62317

Ion Ratio Lower Upper

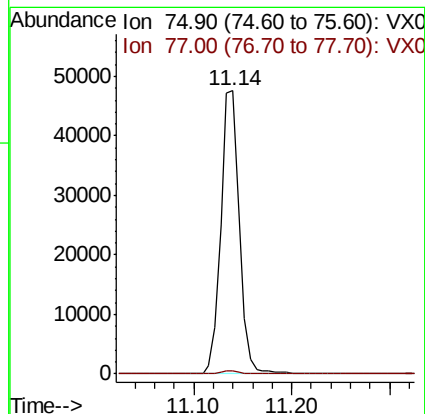
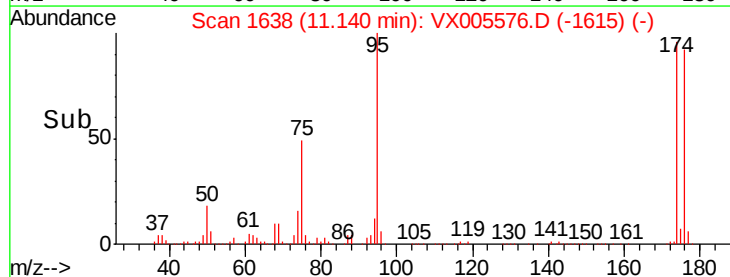
75 100

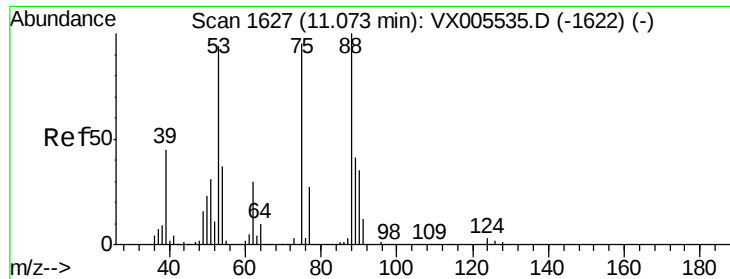
77 1.2 20.2 60.6#



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: 72.295 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005576.D

Acq: 25 Oct 2018 07:37

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-1

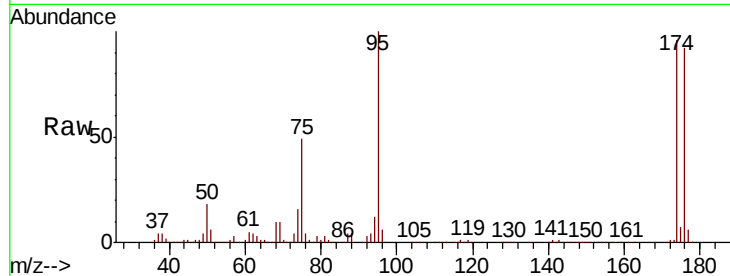
Tot Ion: 75 Resp: 62317

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

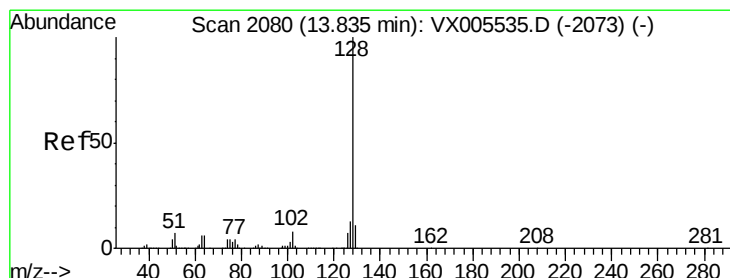
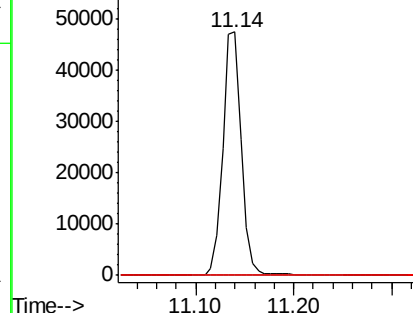
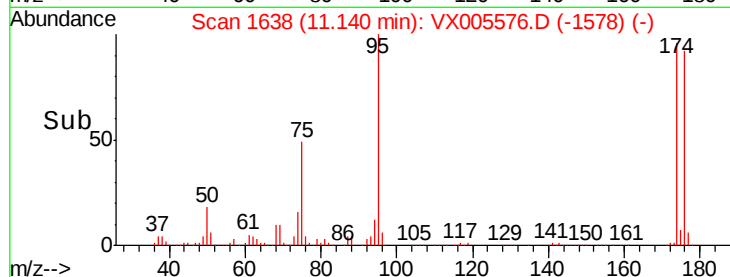
89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 0.565 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005576.D

Acq: 25 Oct 2018 07:37

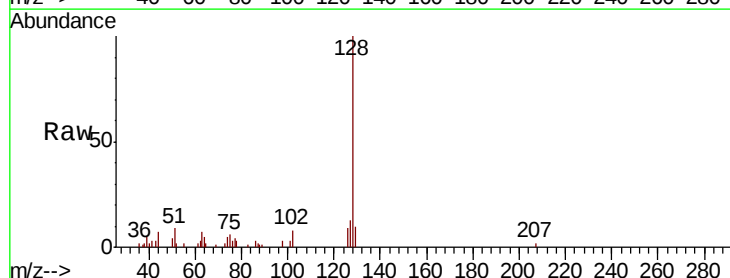
Tgt Ion:128 Resp: 5131

Ion Ratio Lower Upper

128 100

127 15.5 10.2 15.2#

129 12.5 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

