

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX101618\
 Data File : VX005367.D
 Acq On : 16 Oct 2018 14:35
 Operator : JC/MD
 Sample : J5524-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-2

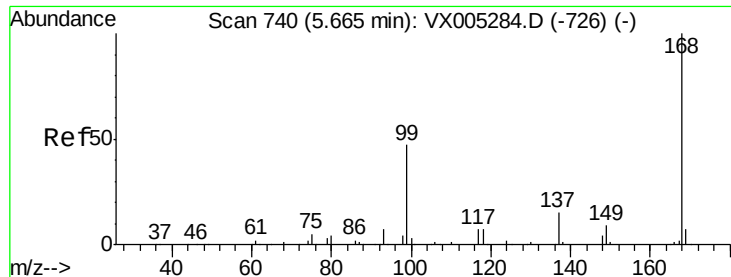
Quant Time: Oct 17 04:56:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	316241	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	437999	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	394463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193178	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	170230	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	
35) Dibromofluoromethane	5.50	113	137499	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
50) Toluene-d8	8.71	98	521207	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
62) 4-Bromofluorobenzene	11.14	95	172038	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	681	0.913	ug/l	99
6) Chloroethane	1.67	64	549	0.566	ug/l #	60
10) Methyl Iodide	2.52	142	139	2.532	ug/l #	87
11) Tert butyl alcohol	3.03	59	3830	3.868	ug/l #	79
13) Acrolein	2.29	56	142	Below Cal	#	16
16) Acetone	2.44	43	17109	8.431	ug/l	97
18) Methyl Acetate	2.78	43	10099	1.749	ug/l	93
20) Methylene Chloride	2.85	84	3001	Below Cal	#	86
25) 2-Butanone	4.70	43	6662	2.244	ug/l	91
29) Tetrahydrofuran	5.15	42	1791	0.946	ug/l #	87
31) Cyclohexane	5.65	56	5167	1.071	ug/l #	4
36) 1,1-Dichloropropene	5.66	75	20288	4.783	ug/l #	50
38) Carbon Tetrachloride	5.67	117	26949	6.323	ug/l #	16
43) Isopropyl Acetate	6.46	43	173984	23.942	ug/l	97
44) Trichloroethene	7.21	130	103	Below Cal		4
48) Methyl methacrylate	7.68	41	6720	1.783	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2349	0.467	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1077	0.241	ug/l #	76
59) 2-Hexanone	9.49	43	994	0.246	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	84802	22.631	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	84802	68.765	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

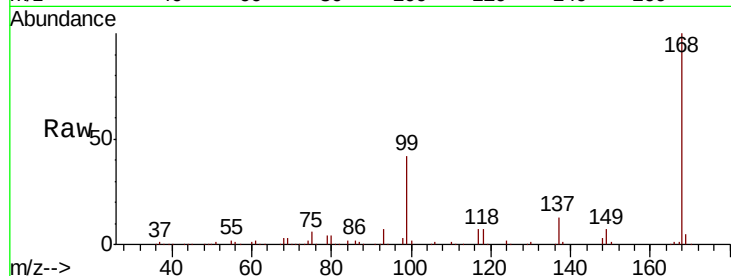
BS-SOIL-2

Tgt Ion: 168 Resp: 316241

Ion Ratio Lower Upper

168 100

99 41.8 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

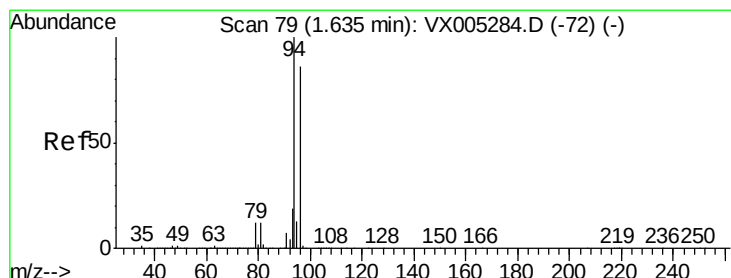
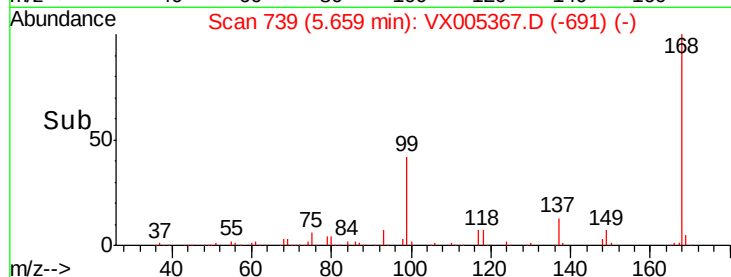
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.913 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005367.D

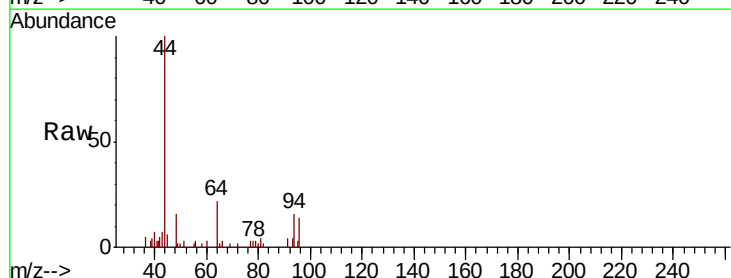
Acq: 16 Oct 2018 14:35

Tgt Ion: 94 Resp: 681

Ion Ratio Lower Upper

94 100

96 92.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

300

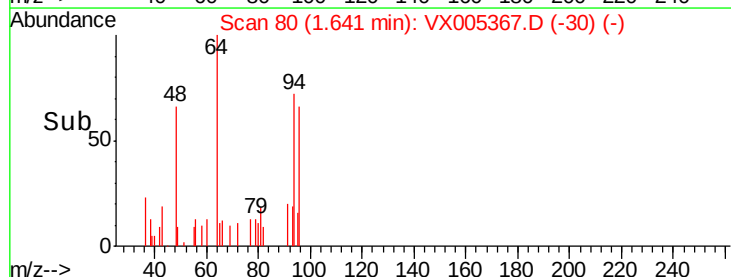
200

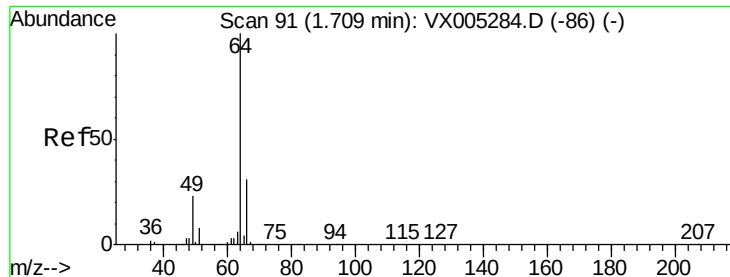
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.566 ug/l

RT: 1.67 min Scan# 85

Delta R.T. -0.04 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

Instrument :

MSVOA_X

ClientSampled :

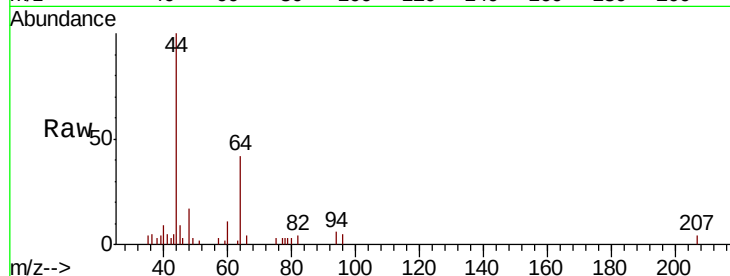
BS-SOIL-2

Tgt Ion: 64 Resp: 549

Ion Ratio Lower Upper

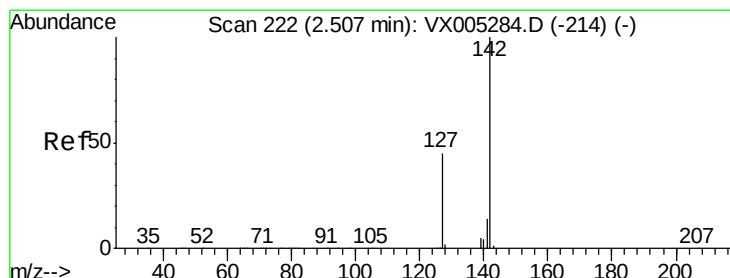
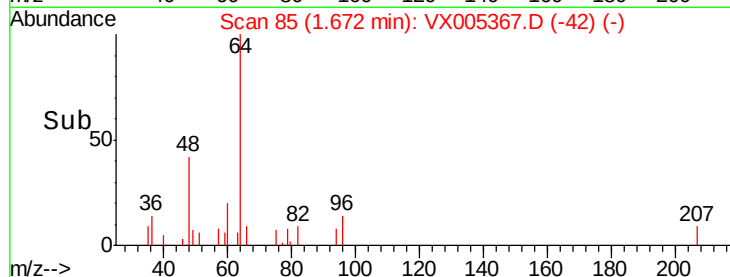
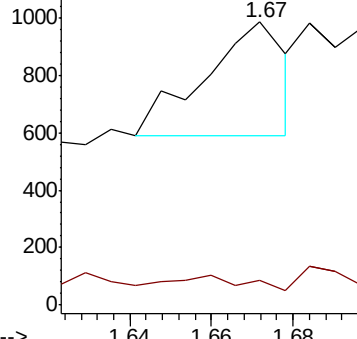
64 100

66 8.8 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.532 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

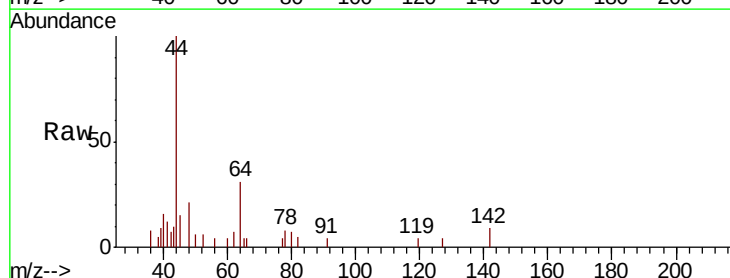
Tgt Ion: 142 Resp: 139

Ion Ratio Lower Upper

142 100

127 46.0 33.8 50.6

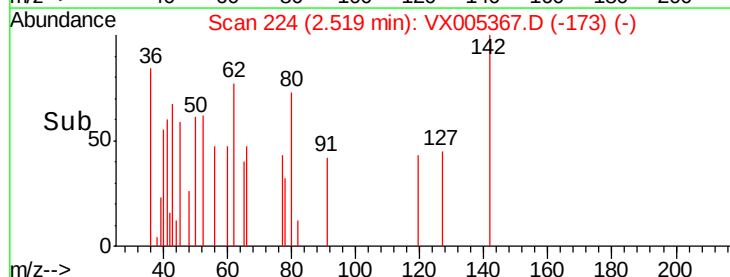
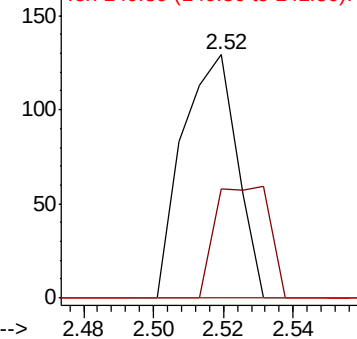
141 0.0 11.4 17.0#

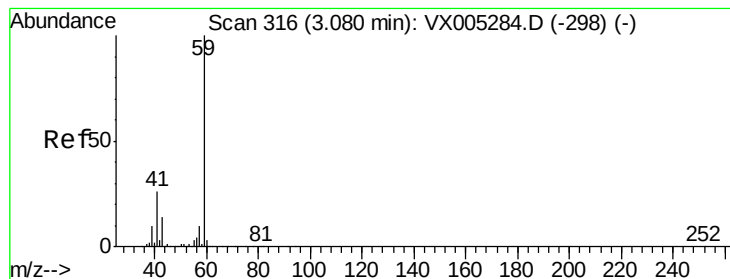


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



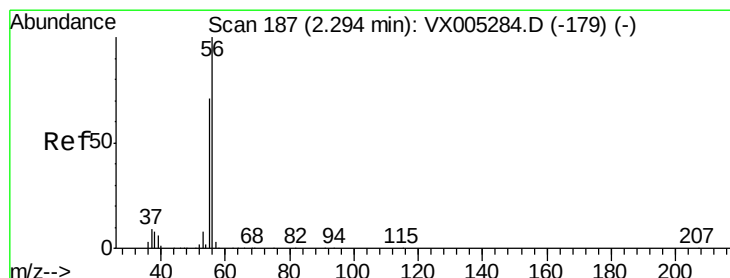
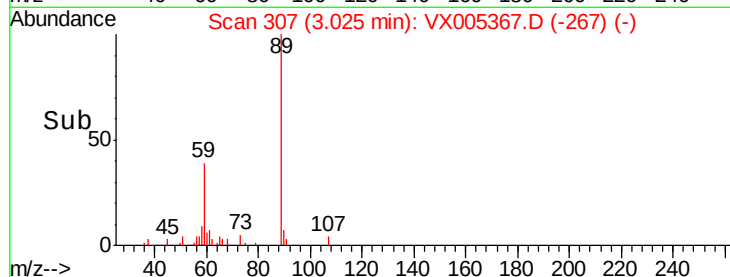
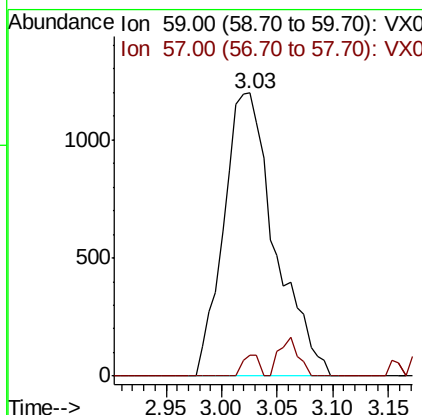
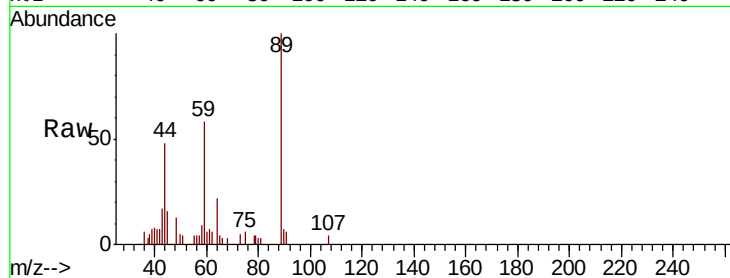


#11

Tert butyl alcohol
 Concen: 3.868 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX005367.D
 Acq: 16 Oct 2018 14:35

Instrument :
 MSVOA_X
 ClientSampled :
 BS-SOIL-2

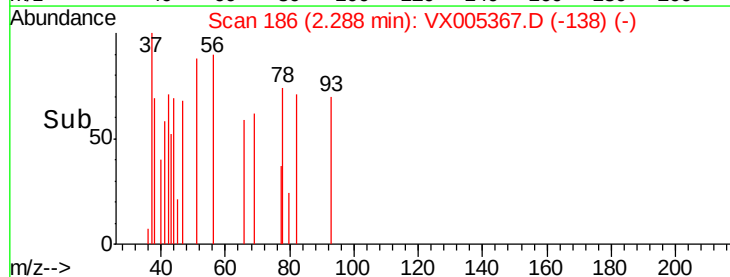
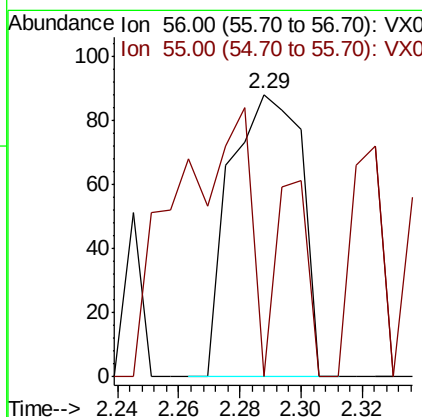
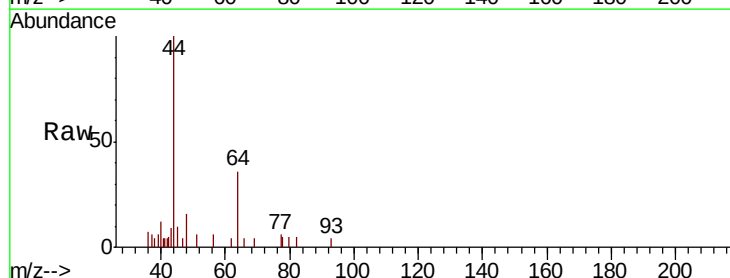
Tgt Ion: 59 Resp: 3830
 Ion Ratio Lower Upper
 59 100
 57 2.3 8.2 12.4#

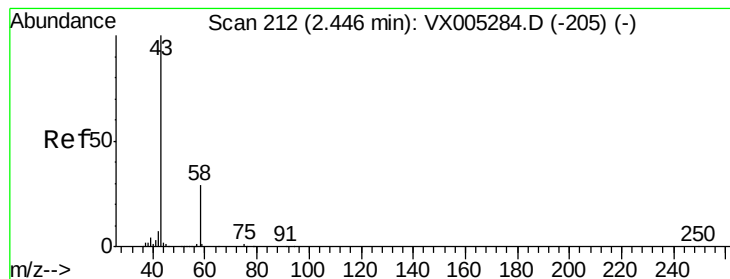


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX005367.D
 Acq: 16 Oct 2018 14:35

Tgt Ion: 56 Resp: 142
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.7 82.1#





#16

Acetone

Concen: 8.431 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

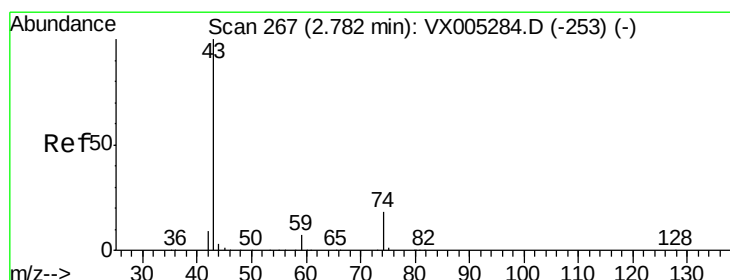
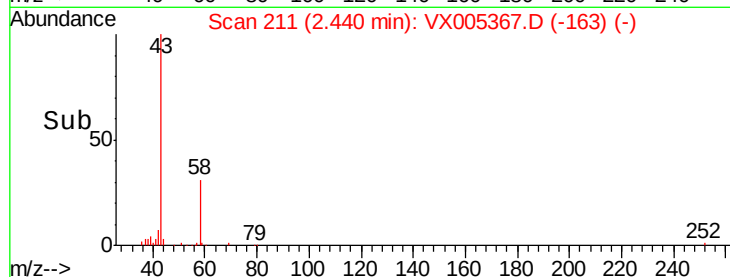
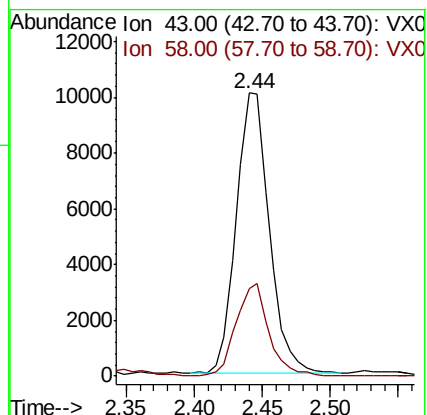
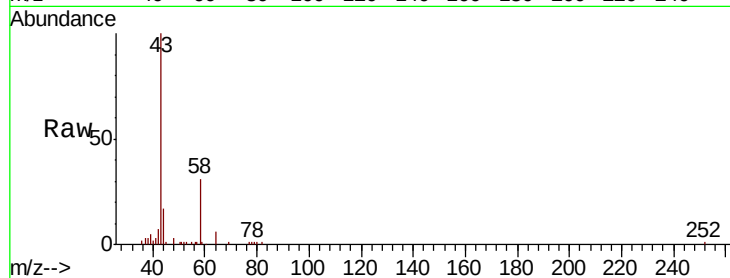
BS-SOIL-2

Tgt Ion: 43 Resp: 17109

Ion Ratio Lower Upper

43 100

58 31.2 26.2 39.4



#18

Methyl Acetate

Concen: 1.749 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005367.D

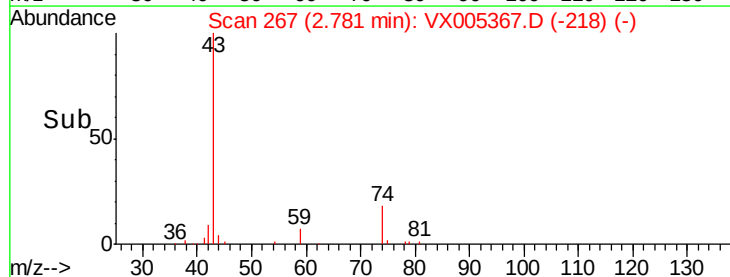
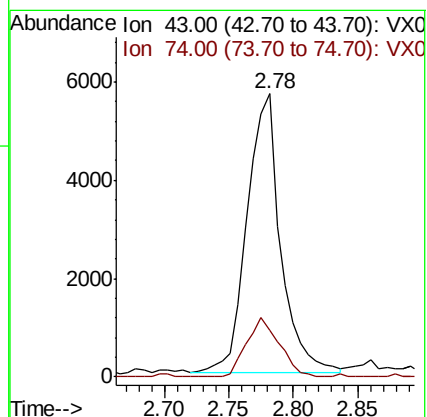
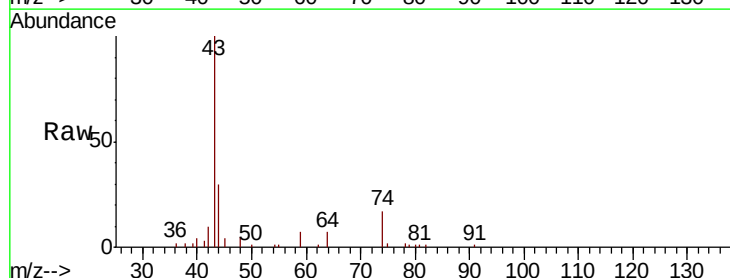
Acq: 16 Oct 2018 14:35

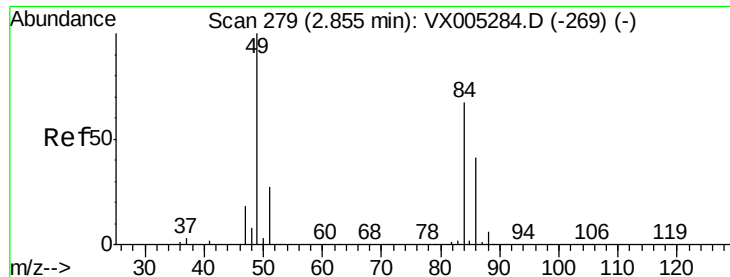
Tgt Ion: 43 Resp: 10099

Ion Ratio Lower Upper

43 100

74 21.1 19.4 29.2

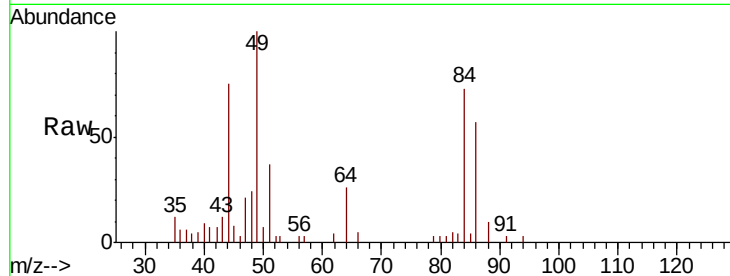




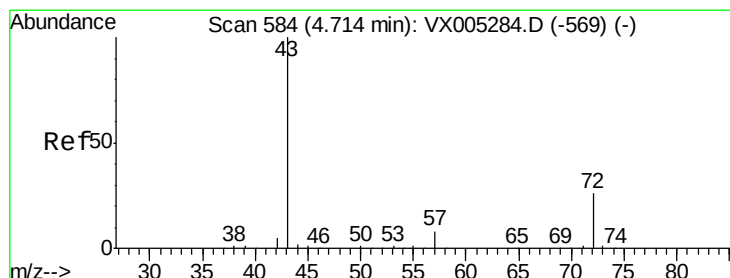
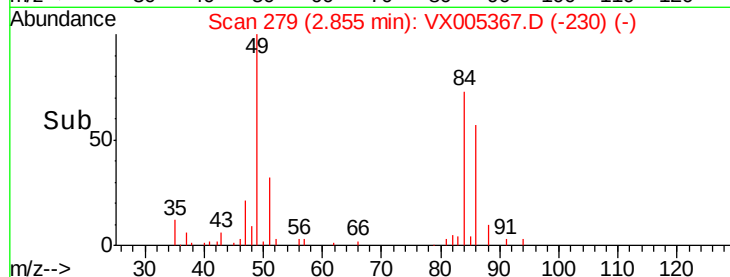
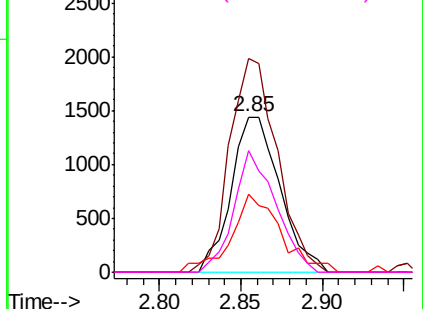
#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005367.D
Acq: 16 Oct 2018 14:35

Instrument :
MSVOA_X
ClientSampleId :
BS-SOIL-2

Tgt Ion: 84 Resp: 3001
Ion Ratio Lower Upper
84 100
49 137.4 101.2 151.8
51 50.5 29.5 44.3#
86 78.3 52.3 78.5

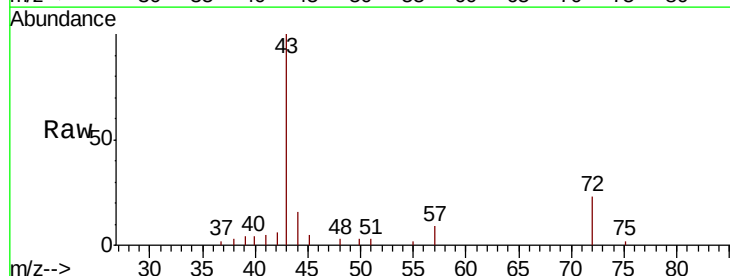


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

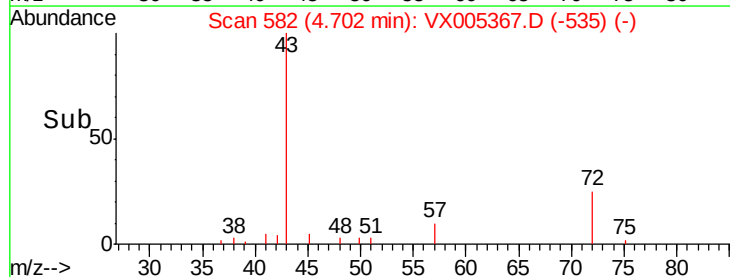
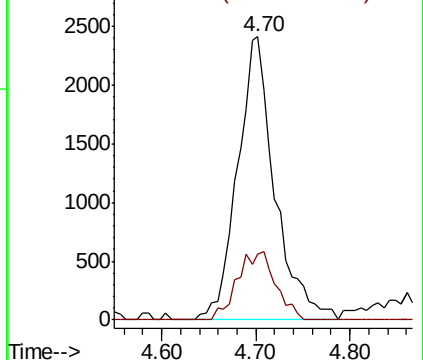


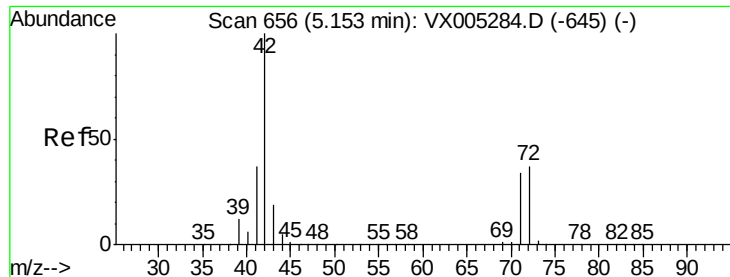
#25
2-Butanone
Concen: 2.244 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.01 min
Lab File: VX005367.D
Acq: 16 Oct 2018 14:35

Tgt Ion: 43 Resp: 6662
Ion Ratio Lower Upper
43 100
72 23.1 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

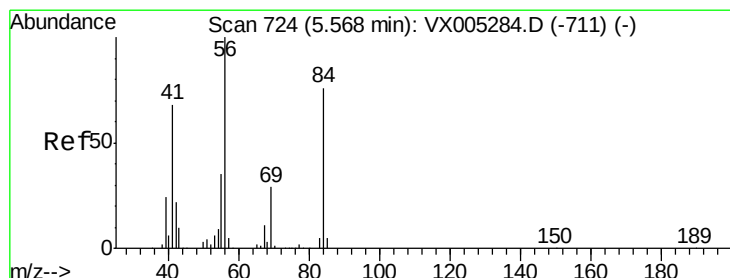
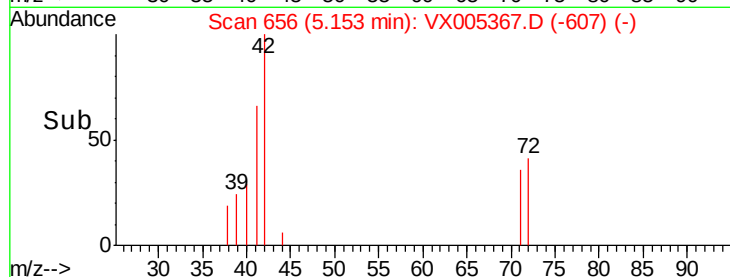
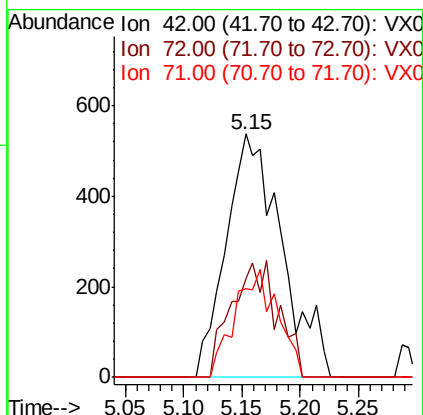
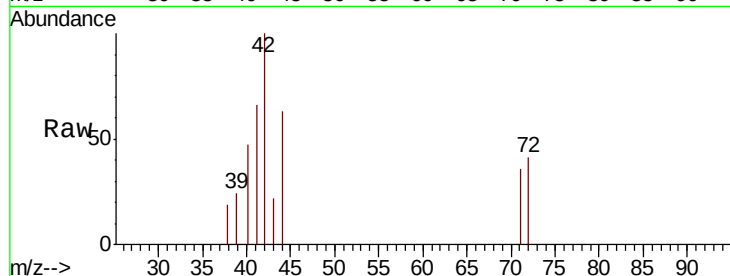




#29
Tetrahydrofuran
Concen: 0.946 ug/l
RT: 5.15 min Scan# 656
Delta R.T. -0.00 min
Lab File: VX005367.D
Acq: 16 Oct 2018 14:35

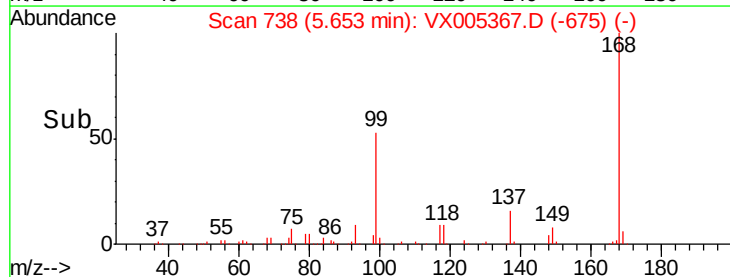
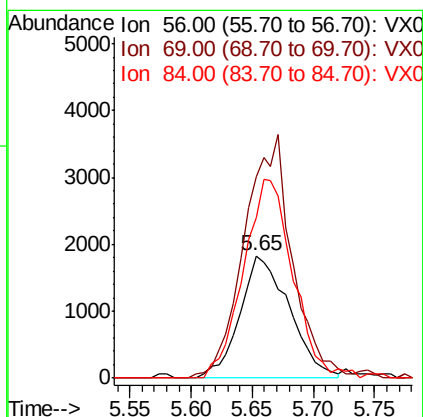
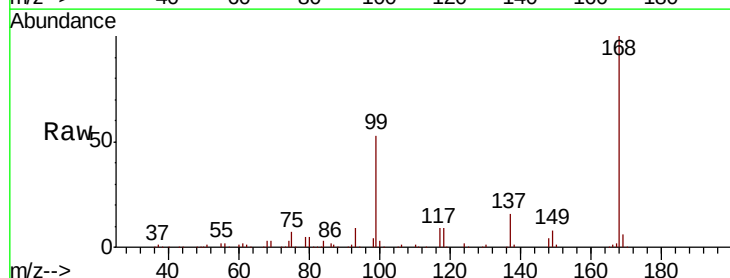
Instrument :
MSVOA_X
ClientSampleId :
BS-SOIL-2

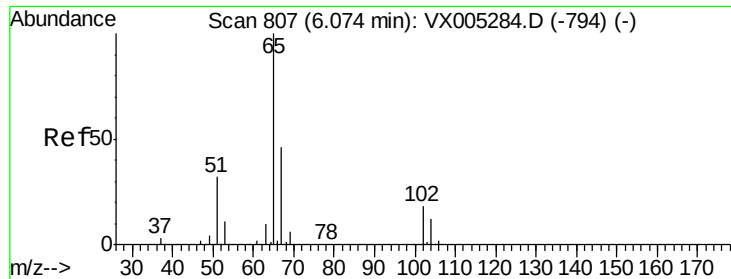
Tgt Ion: 42 Resp: 1791
Ion Ratio Lower Upper
42 100
72 39.4 37.4 56.0
71 33.9 34.5 51.7#



#31
Cyclohexane
Concen: 1.071 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.09 min
Lab File: VX005367.D
Acq: 16 Oct 2018 14:35

Tgt Ion: 56 Resp: 5167
Ion Ratio Lower Upper
56 100
69 164.7 25.4 38.2#
84 131.6 71.4 107.2#

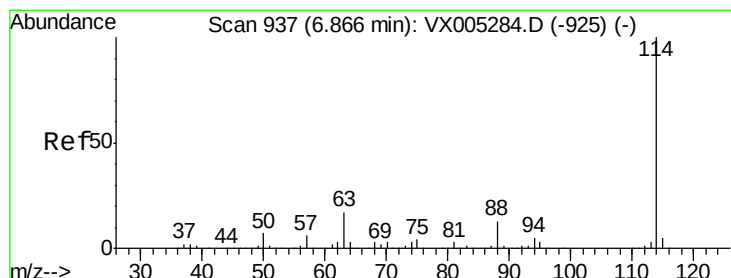
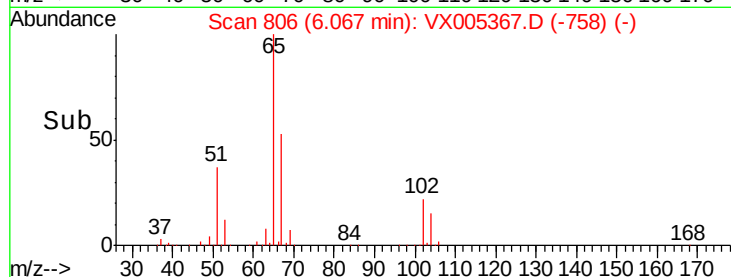
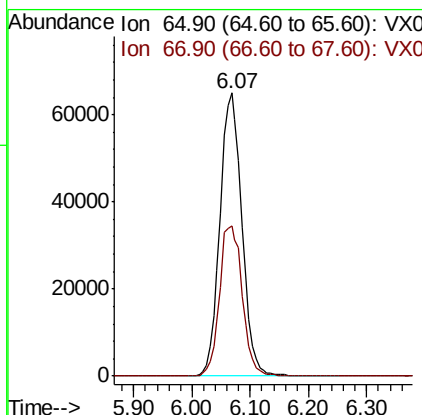
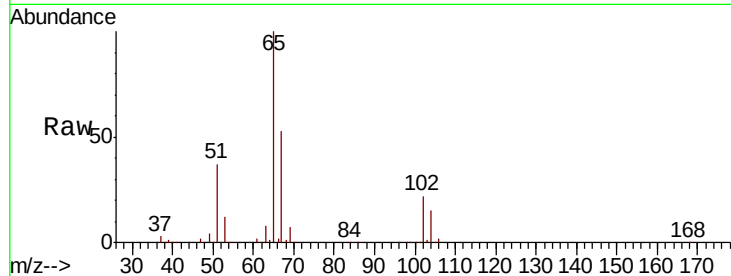




#33
 1,2-Dichloroethane-d4
 Concen: 48.501 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005367.D
 Acq: 16 Oct 2018 14:35

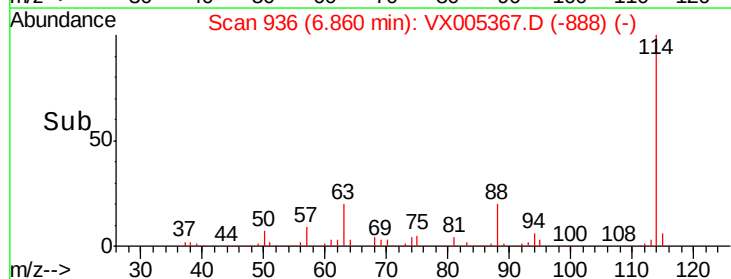
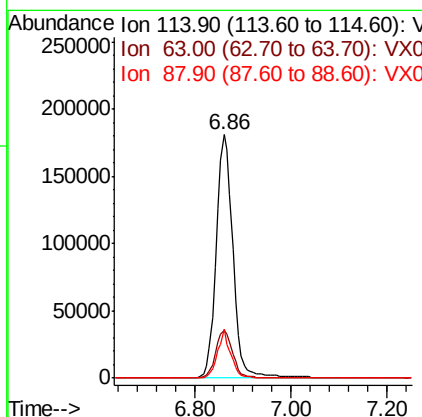
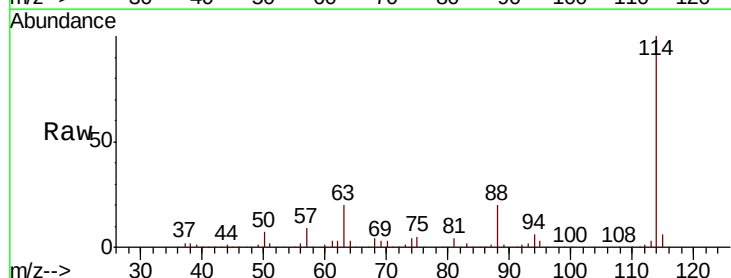
Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-2

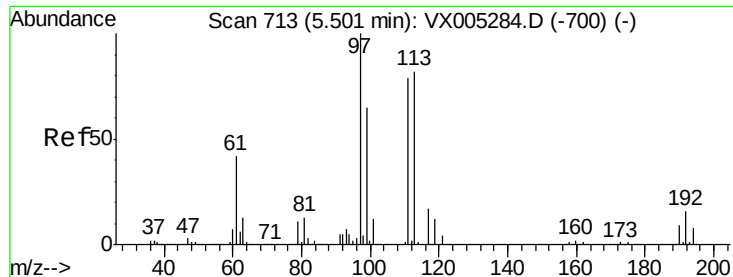
Tgt Ion: 65 Resp: 170230
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005367.D
 Acq: 16 Oct 2018 14:35

Tgt Ion: 114 Resp: 437999
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 20.0 0.0 30.4

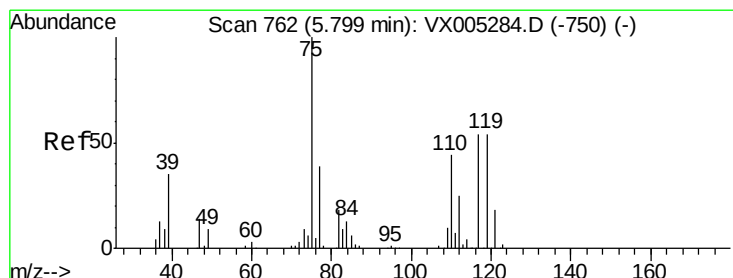
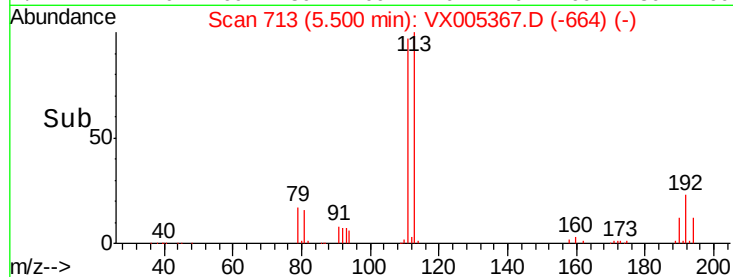
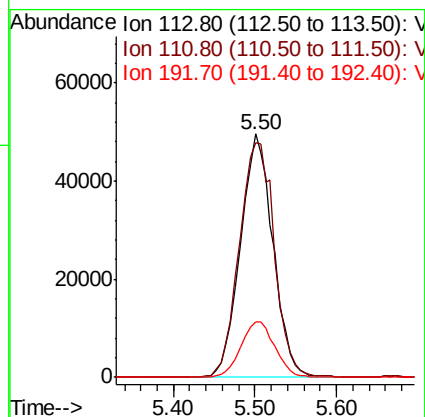
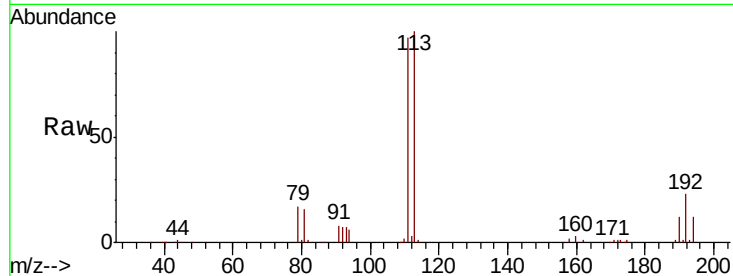




#35
 Dibromofluoromethane
 Concen: 47.397 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005367.D
 Acq: 16 Oct 2018 14:35

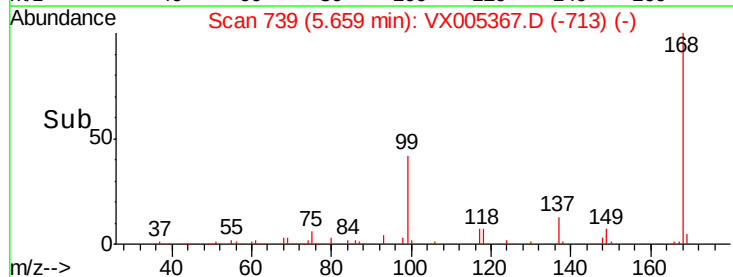
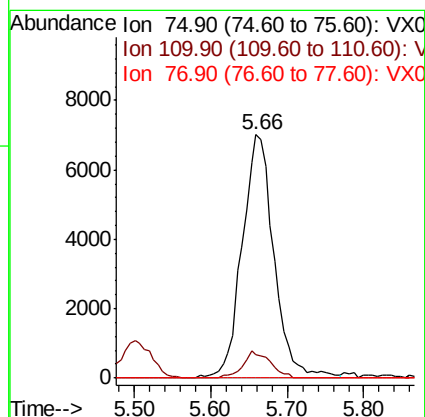
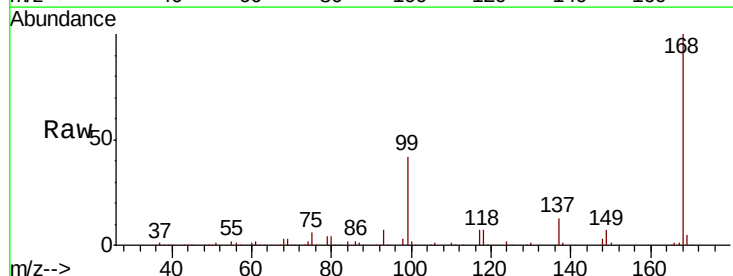
Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-2

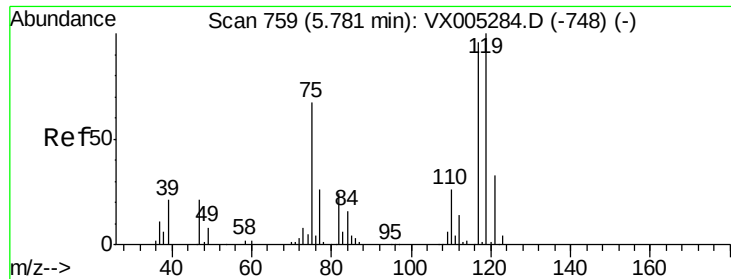
Tgt Ion:113 Resp: 137499
 Ion Ratio Lower Upper
 113 100
 111 103.7 82.4 123.6
 192 23.9 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 4.783 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005367.D
 Acq: 16 Oct 2018 14:35

Tgt Ion: 75 Resp: 20288
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.323 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-2

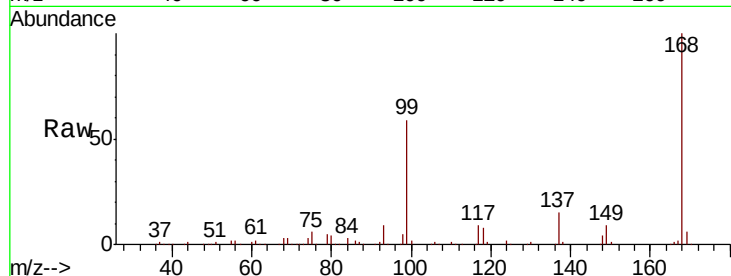
Tgt Ion:117 Resp: 26949

Ion Ratio Lower Upper

117 100

119 6.0 78.8 118.2#

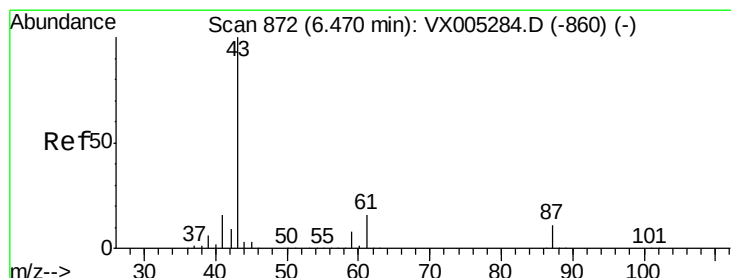
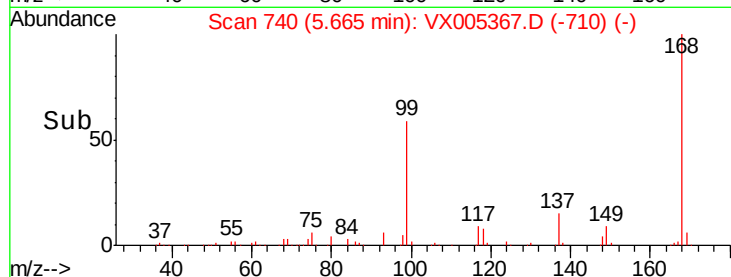
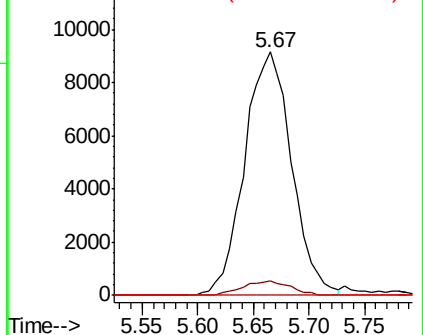
121 0.0 24.9 37.3#



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: 23.942 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.01 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

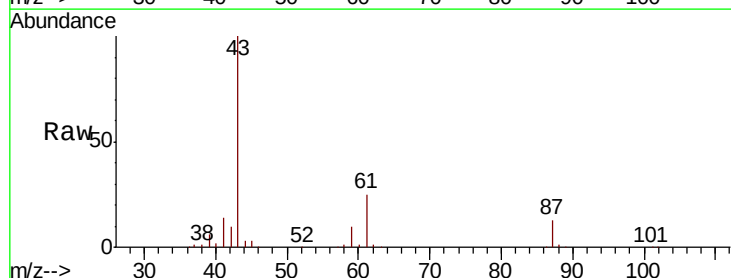
Tgt Ion: 43 Resp: 173984

Ion Ratio Lower Upper

43 100

61 20.1 17.0 25.4

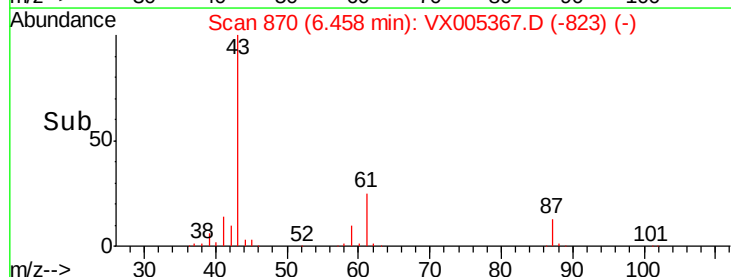
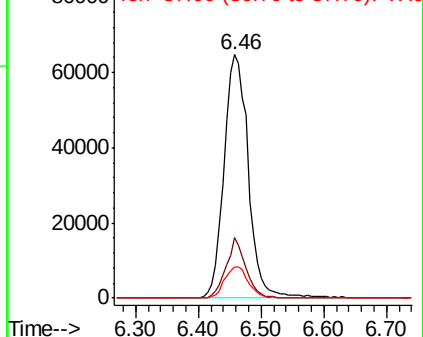
87 12.6 11.4 17.2

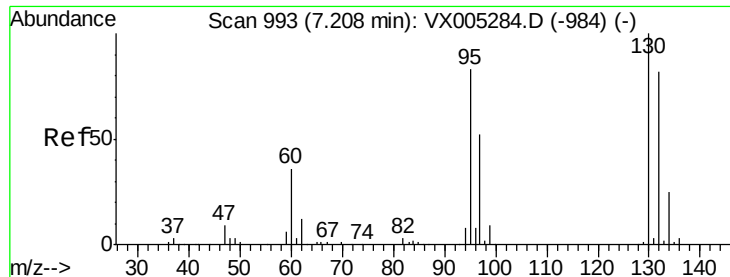


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

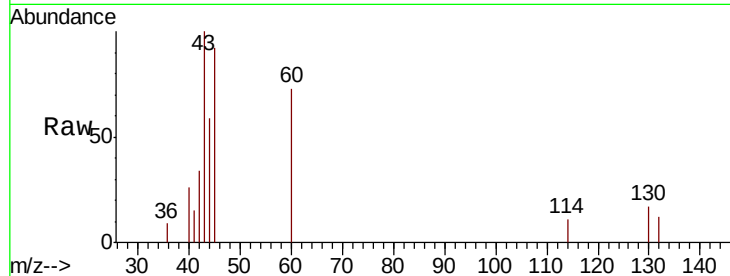
BS-SOIL-2

Tgt Ion:130 Resp: 103

Ion Ratio Lower Upper

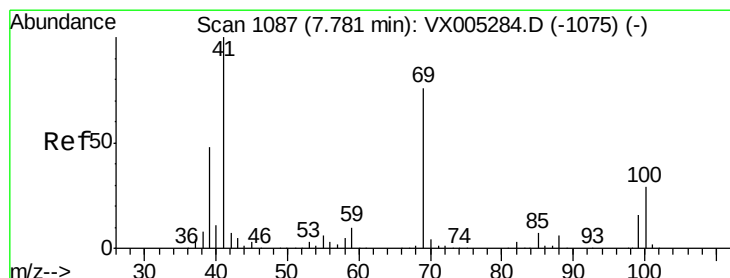
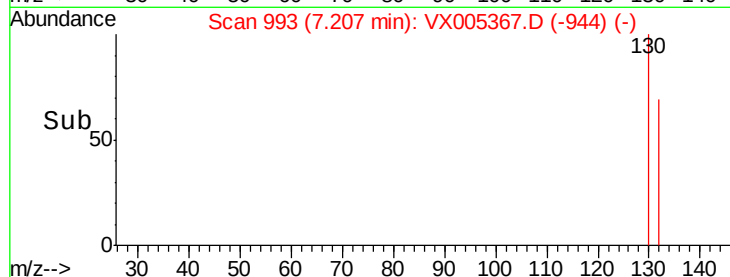
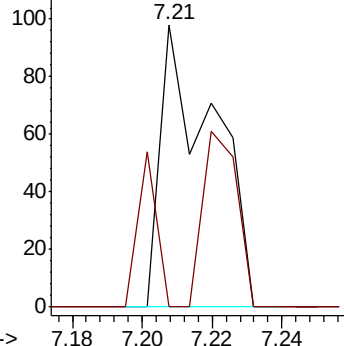
130 100

95 0.0 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 1.783 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

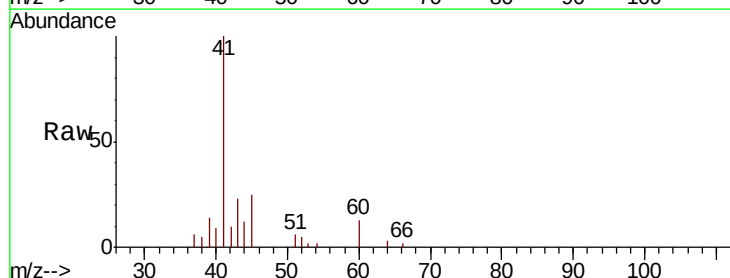
Tgt Ion: 41 Resp: 6720

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

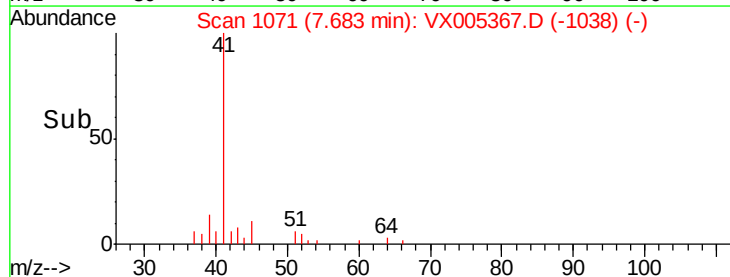
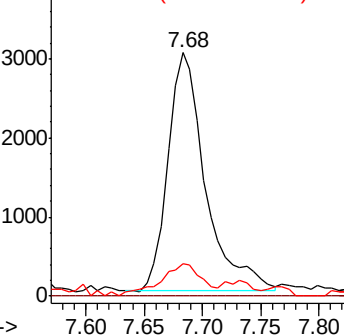
39 15.2 42.7 64.1#

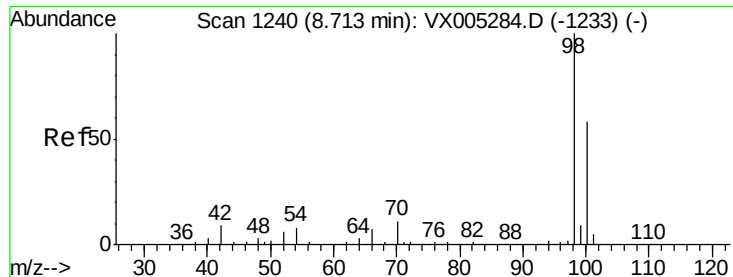


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

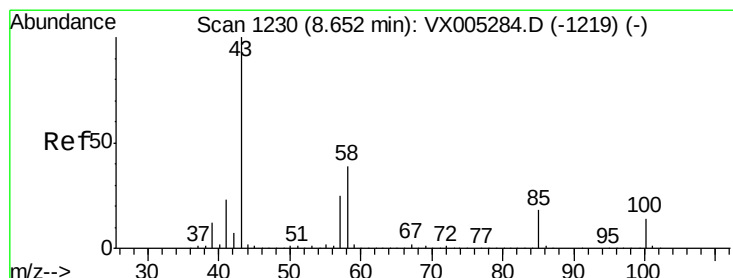
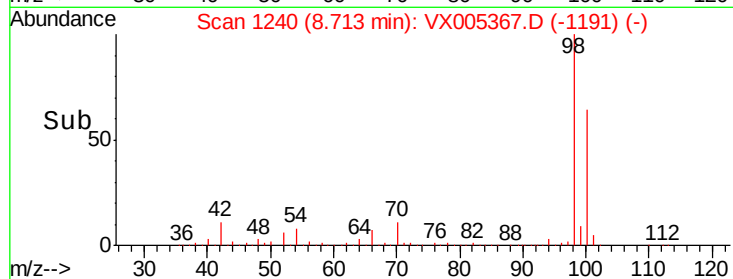
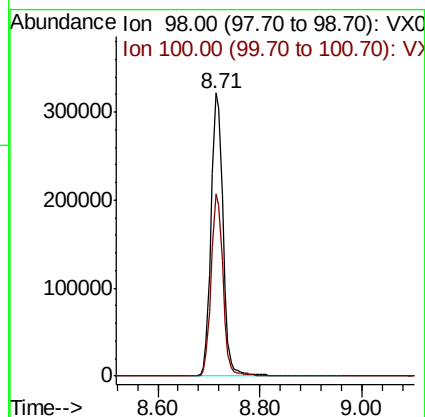
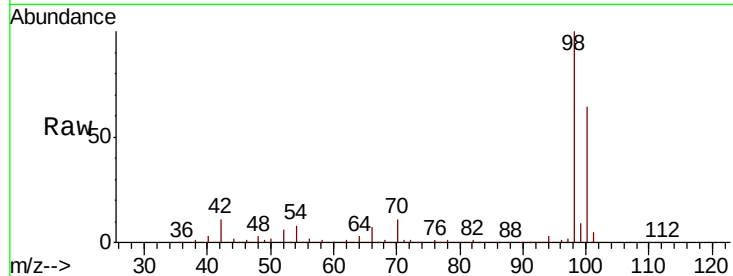




#50
Toluene-d8
Concen: 52.334 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005367.D
Acq: 16 Oct 2018 14:35

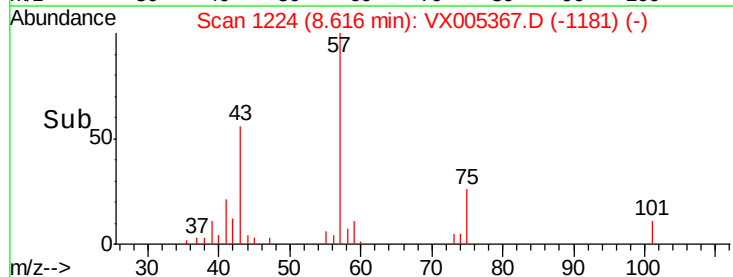
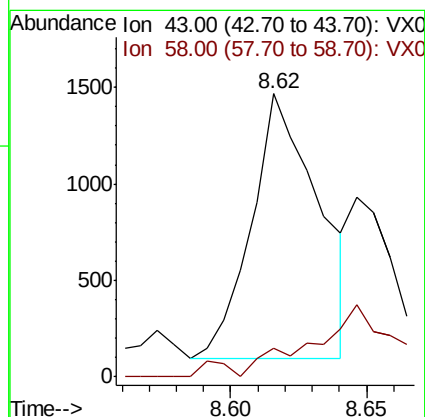
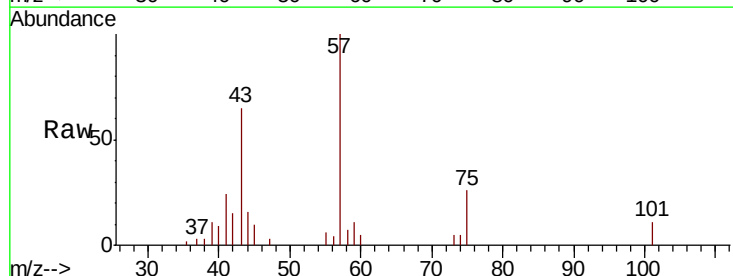
Instrument :
MSVOA_X
ClientSampled :
BS-SOIL-2

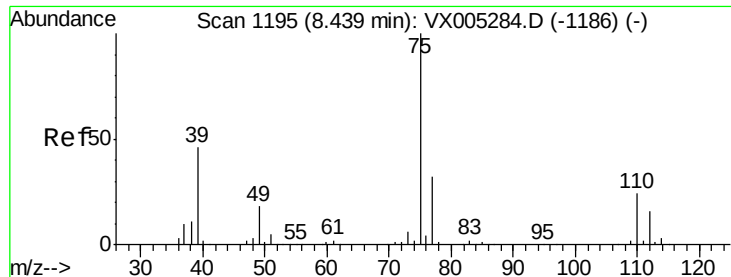
Tgt Ion: 98 Resp: 521207
Ion Ratio Lower Upper
98 100
100 63.8 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.467 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.04 min
Lab File: VX005367.D
Acq: 16 Oct 2018 14:35

Tgt Ion: 43 Resp: 2349
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

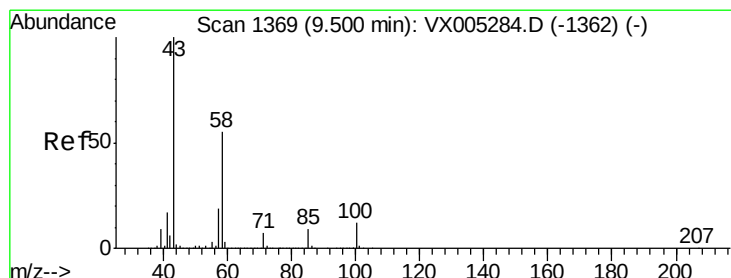
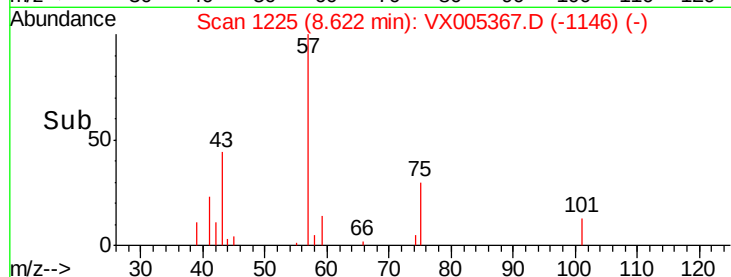
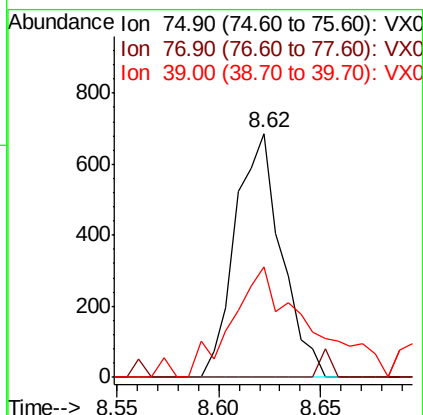
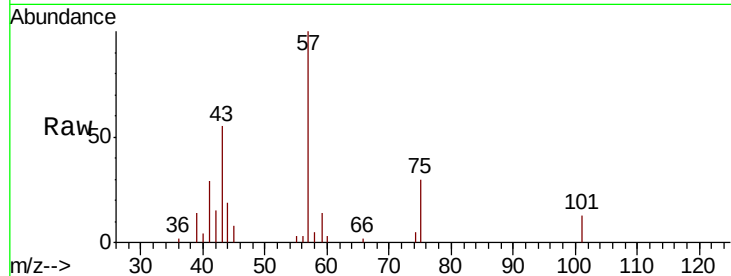




#54
 cis-1,3-Dichloropropene
 Concen: 0.241 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX005367.D
 Acq: 16 Oct 2018 14:35

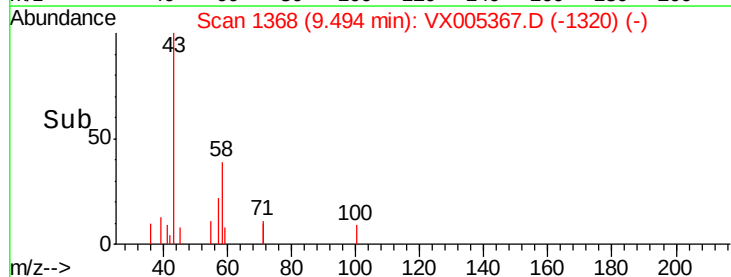
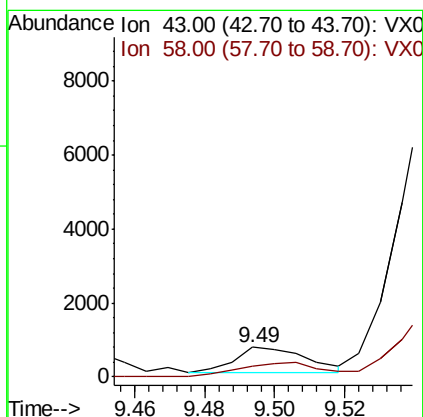
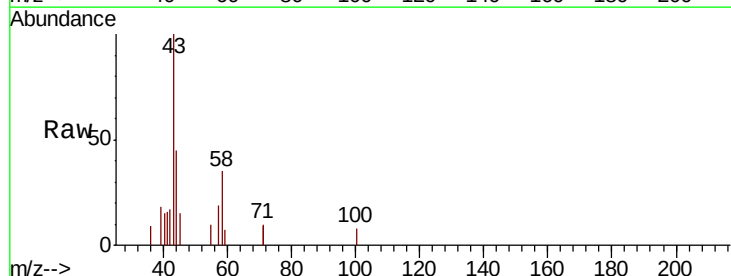
Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-2

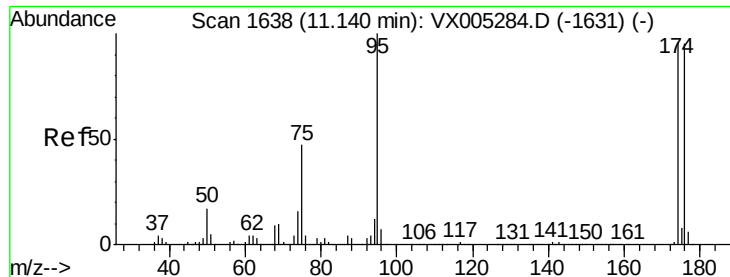
Tgt Ion: 75 Resp: 1077
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 45.3 36.4 54.6



#59
 2-Hexanone
 Concen: 0.246 ug/l
 RT: 9.49 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VX005367.D
 Acq: 16 Oct 2018 14:35

Tgt Ion: 43 Resp: 994
 Ion Ratio Lower Upper
 43 100
 58 61.8 29.0 87.0





#62

4-Bromofluorobenzene

Concen: 45.983 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-2

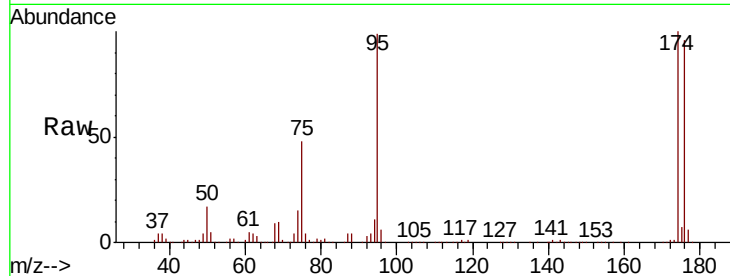
Tgt Ion: 95 Resp: 172038

Ion Ratio Lower Upper

95 100

174 96.6 0.0 185.2

176 92.3 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005284.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005284.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005284.D (-1631) (-)

11.14

150000

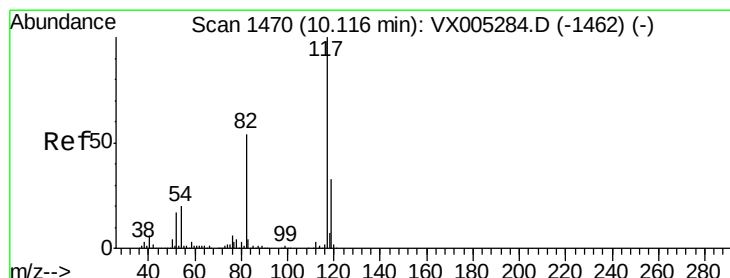
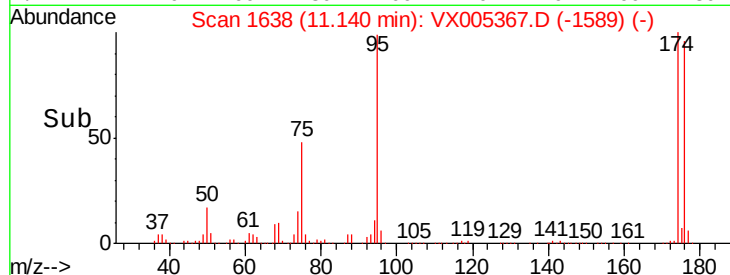
100000

50000

0

Time-->

11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

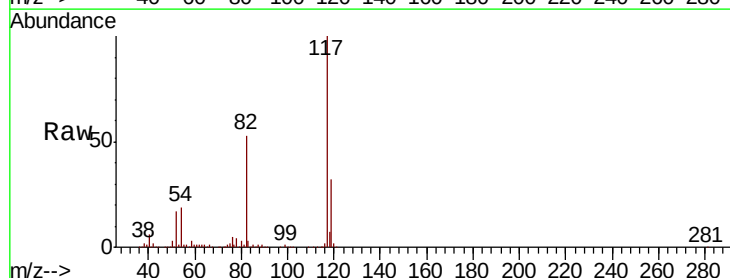
Tgt Ion: 117 Resp: 394463

Ion Ratio Lower Upper

117 100

82 52.8 47.8 71.6

119 31.6 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): VX005284.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005284.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005284.D (-1462) (-)

10.12

300000

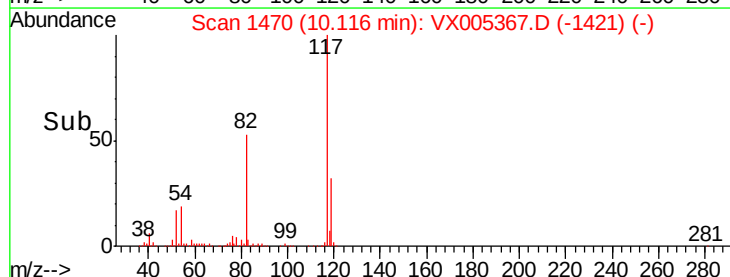
200000

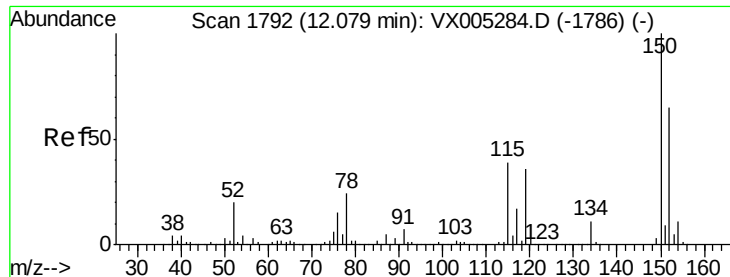
100000

0

Time-->

10.00 10.20





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-2

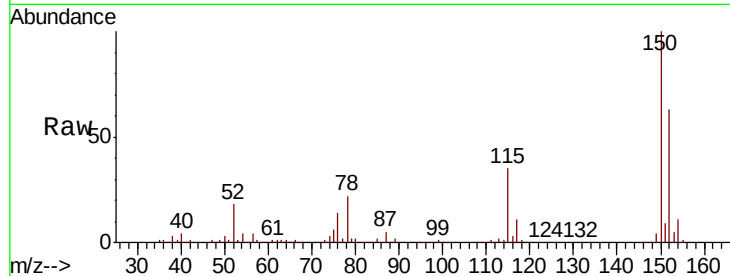
Tgt Ion:152 Resp: 193178

Ion Ratio Lower Upper

152 100

115 54.4 39.0 117.0

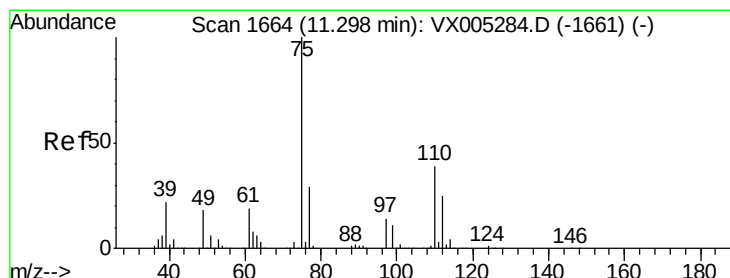
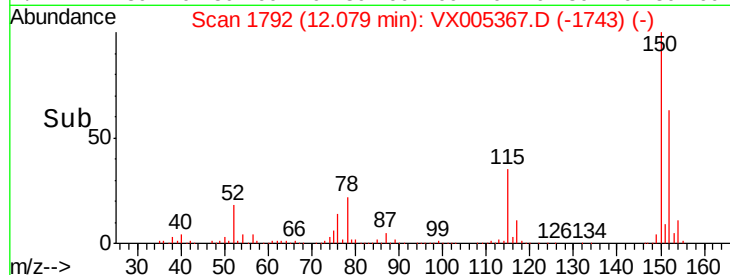
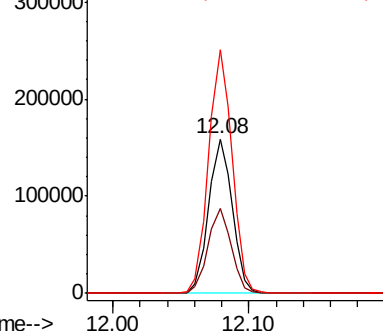
150 156.6 0.0 351.0



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: 22.631 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX005367.D

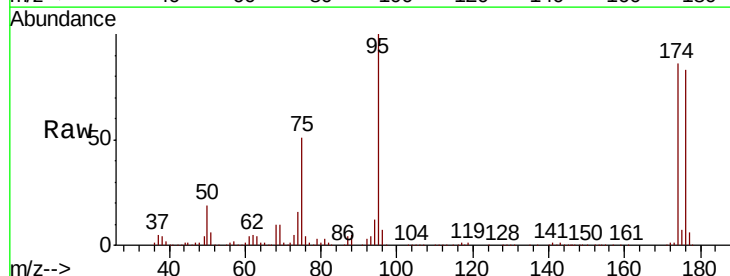
Acq: 16 Oct 2018 14:35

Tgt Ion: 75 Resp: 84802

Ion Ratio Lower Upper

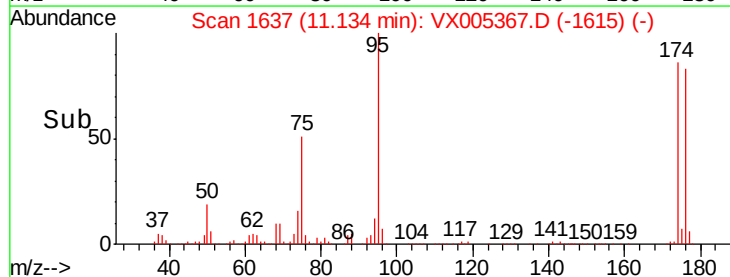
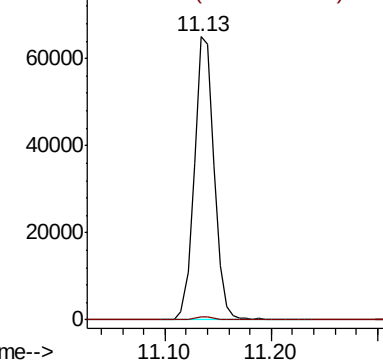
75 100

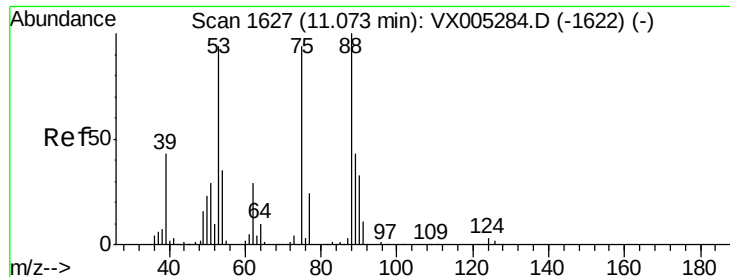
77 1.3 20.2 60.6#



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: 68.765 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX005367.D

Acq: 16 Oct 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-2

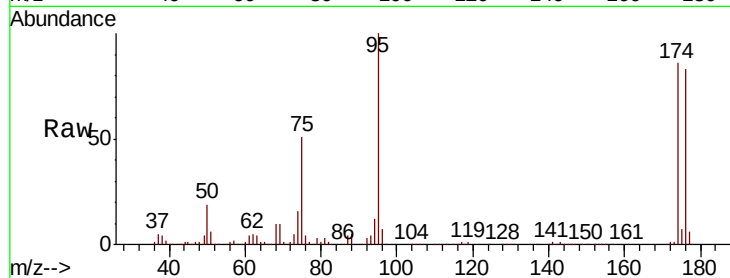
Tgt Ion: 75 Resp: 84802

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

