

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070918\
 Data File : VX003274.D
 Acq On : 10 Jul 2018 04:57
 Operator : JC/MD
 Sample : J3893-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BS-S-7-SOIL

Quant Time: Jul 10 05:26:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	250450	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	348816	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	326612	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	191314	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	160079	40.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.22%	
35) Dibromofluoromethane	5.51	113	136461	36.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.82%	
50) Toluene-d8	8.72	98	499919	37.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.12%	
62) 4-Bromofluorobenzene	11.14	95	171006	34.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.54%	

Target Compounds

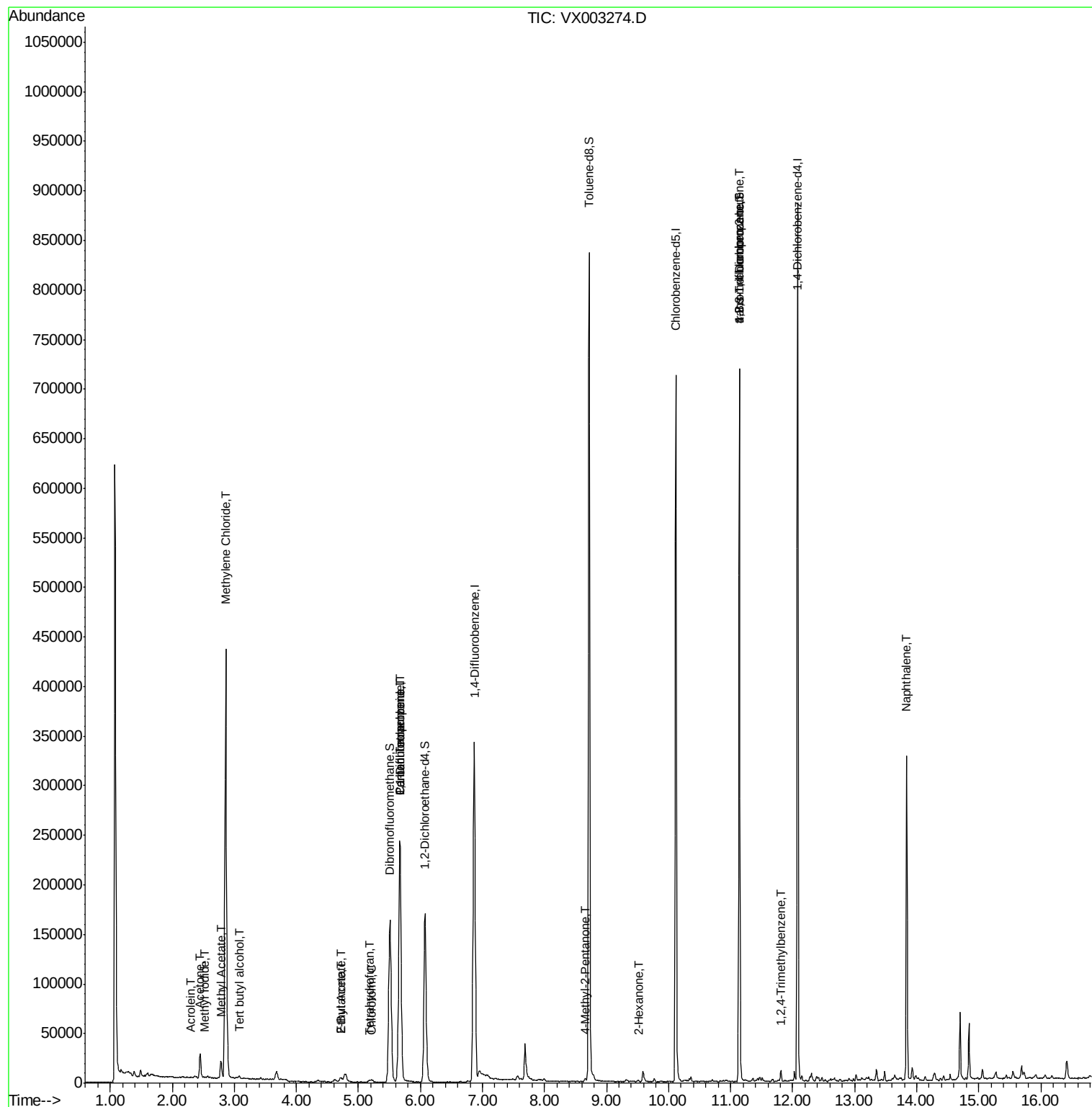
						Qvalue
5) Bromomethane	1.65	94	823	Below Cal		92
10) Methyl Iodide	2.52	142	1431	6.02 ug/l		95
11) Tert butyl alcohol	3.07	59	3003	4.20 ug/l #		75
13) Acrolein	2.30	56	438	0.76 ug/l #		72
16) Acetone	2.45	43	27370	19.56 ug/l		94
18) Methyl Acetate	2.78	43	21700	5.50 ug/l		98
20) Methylene Chloride	2.86	84	204130	71.49 ug/l		92
25) 2-Butanone	4.71	43	8184	3.31 ug/l #		89
29) Tetrahydrofuran	5.18	42	1499	0.93 ug/l #		78
30) Chloroform	5.21	83	1849	0.30 ug/l #		74
36) 1,1-Dichloropropene	5.67	75	16288	3.30 ug/l #		50
37) Ethyl Acetate	4.71	43	8184	1.51 ug/l #		70
38) Carbon Tetrachloride	5.67	117	21879	4.05 ug/l #		17
51) 4-Methyl-2-Pentanone	8.66	43	2141	0.40 ug/l		97
59) 2-Hexanone	9.51	43	916	0.23 ug/l		80
76) 1,2,3-Trichloropropane	11.14	75	85460	20.67 ug/l #		33
81) trans-1,4-Dichloro-2-buten	11.14	75	85460	67.55 ug/l #		7
84) 1,2,4-Trimethylbenzene	11.81	105	3483	0.27 ug/l		96
95) Naphthalene	13.83	128	207919	13.59 ug/l		99

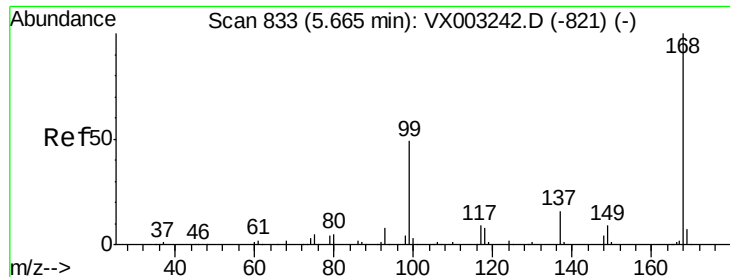
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 09 15:24:16 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampled :

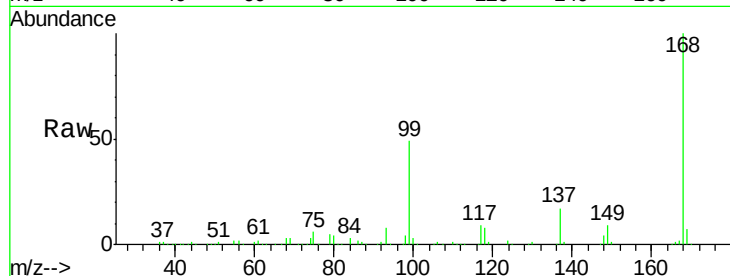
BS-S-7-SOIL

Tot Ion:168 Resp: 250450

Ion Ratio Lower Upper

168 100

99 48.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

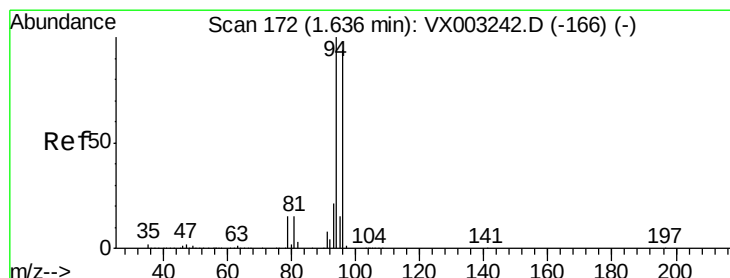
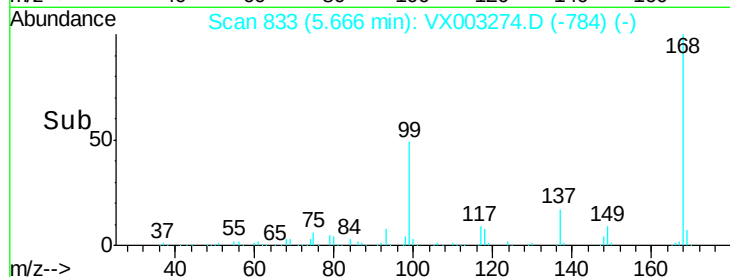
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003274.D

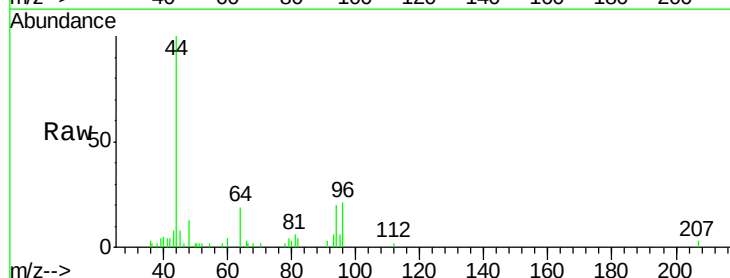
Acq: 10 Jul 2018 04:57

Tgt Ion: 94 Resp: 823

Ion Ratio Lower Upper

94 100

96 101.4 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

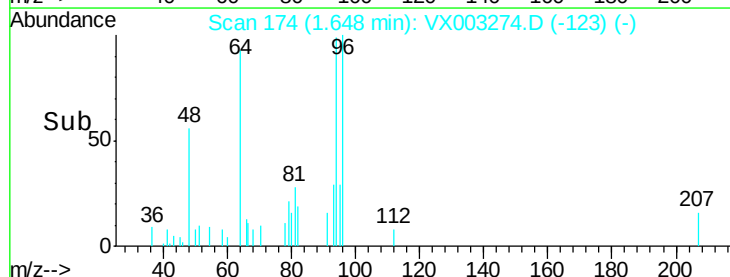
600

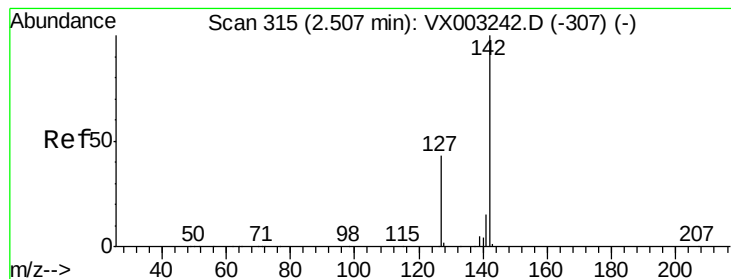
400

200

0

Time--> 1.62 1.64 1.66





#10

Methvl Iodide

Concen: 6.02 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampleId :

BS-S-7-SOIL

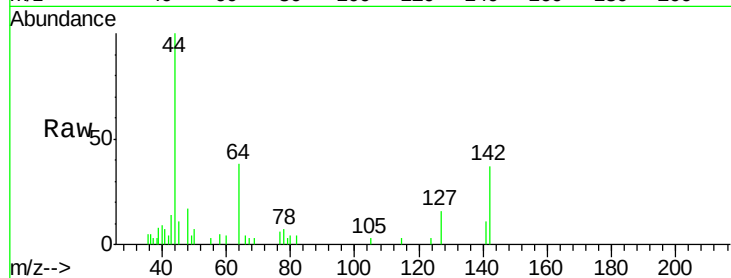
Tot Ion:142 Resp: 1431

Ion Ratio Lower Upper

142 100

127 49.6 36.6 55.0

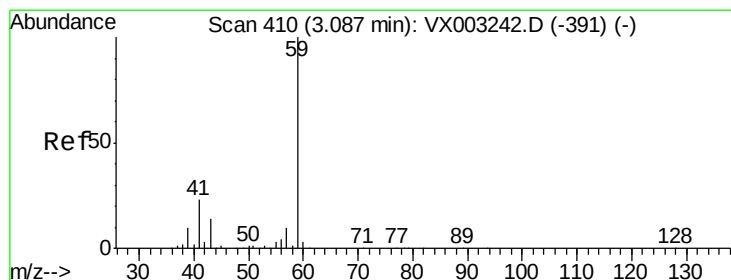
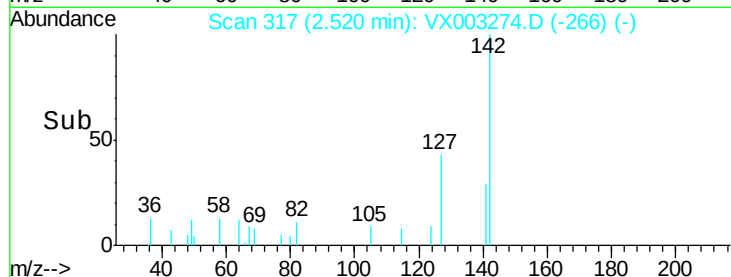
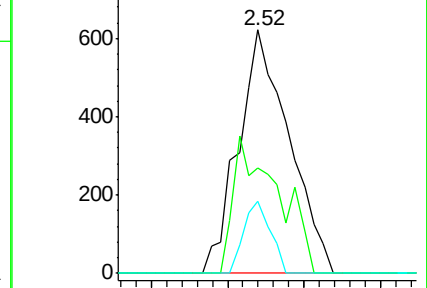
141 15.4 11.3 16.9



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: 4.20 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.02 min

Lab File: VX003274.D

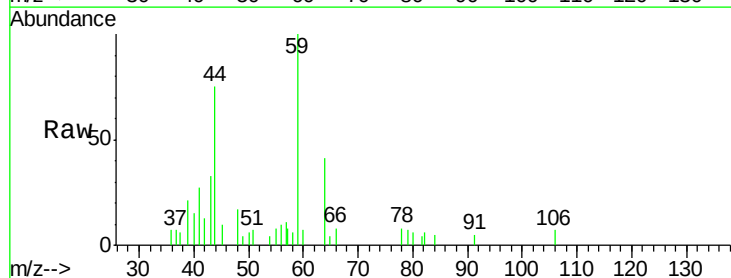
Acq: 10 Jul 2018 04:57

Tgt Ion: 59 Resp: 3003

Ion Ratio Lower Upper

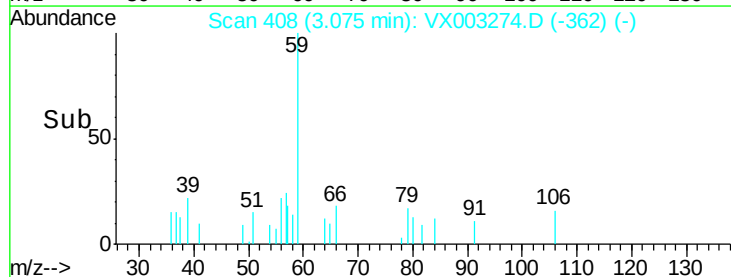
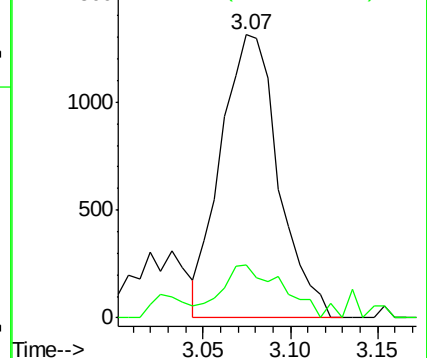
59 100

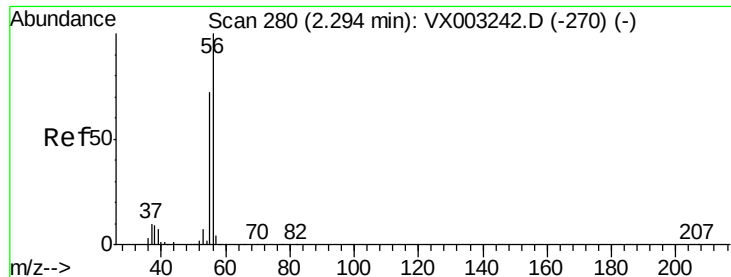
57 19.7 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.76 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampled :

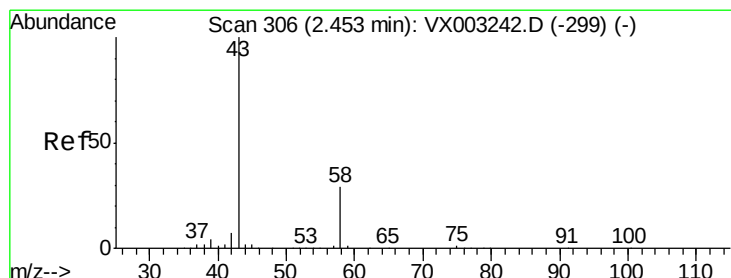
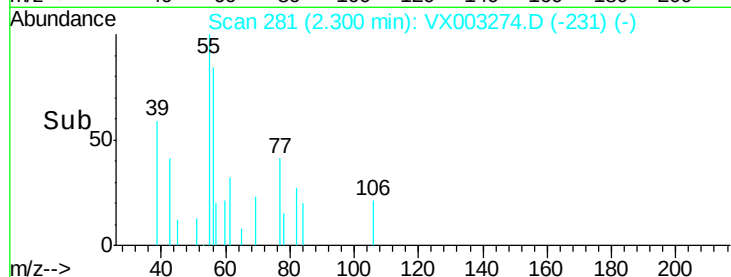
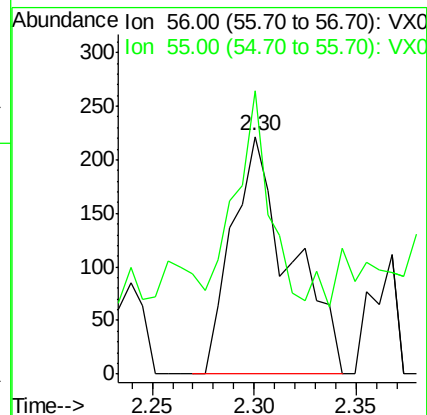
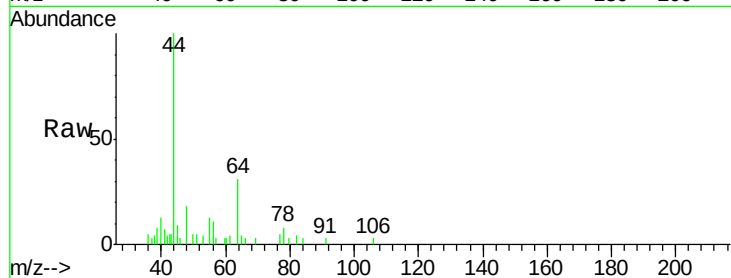
BS-S-7-SOIL

Tot Ion: 56 Resp: 438

Ion Ratio Lower Upper

56 100

55 94.3 57.0 85.4#



#16

Acetone

Concen: 19.56 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003274.D

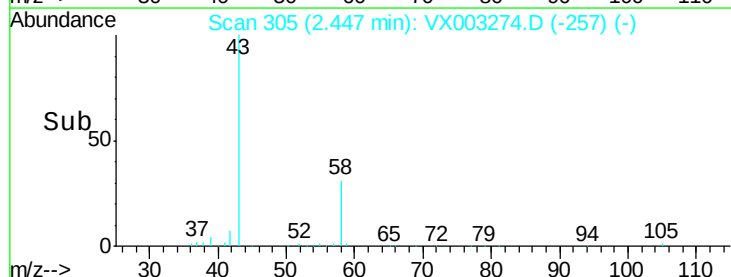
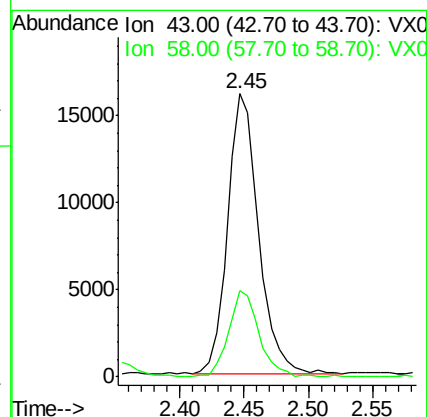
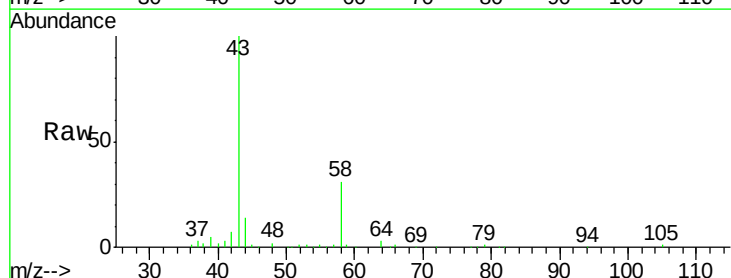
Acq: 10 Jul 2018 04:57

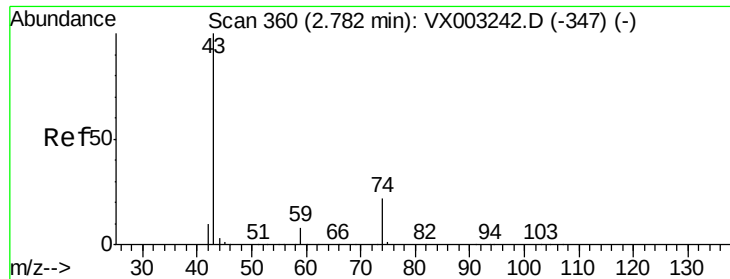
Tgt Ion: 43 Resp: 27370

Ion Ratio Lower Upper

43 100

58 31.0 22.1 33.1

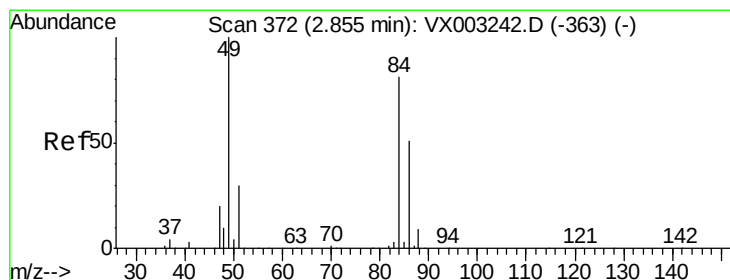
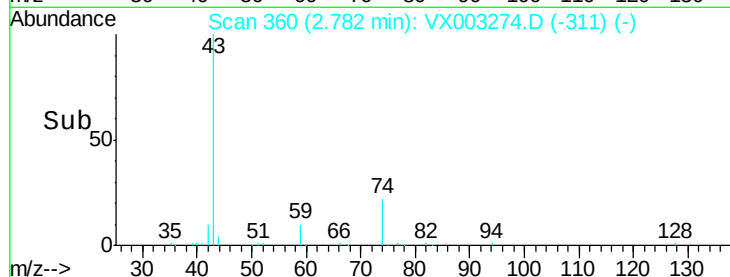
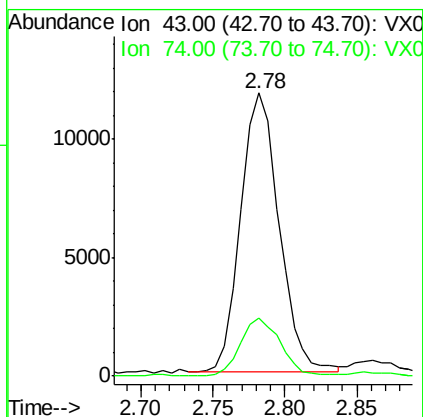
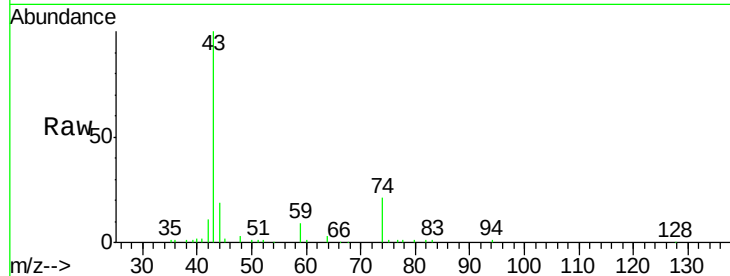




#18
Methyl Acetate
Concen: 5.50 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003274.D
Acq: 10 Jul 2018 04:57

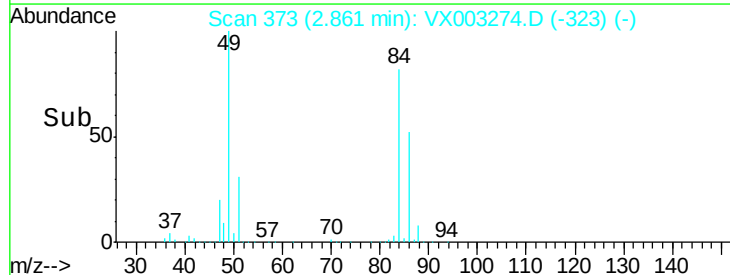
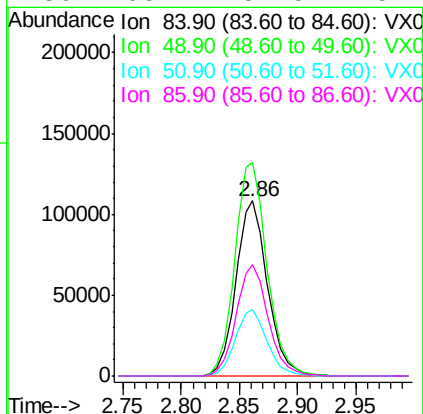
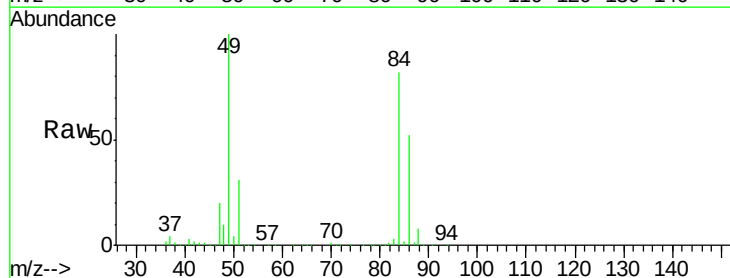
Instrument :
MSVOA_X
ClientSampleId :
BS-S-7-SOIL

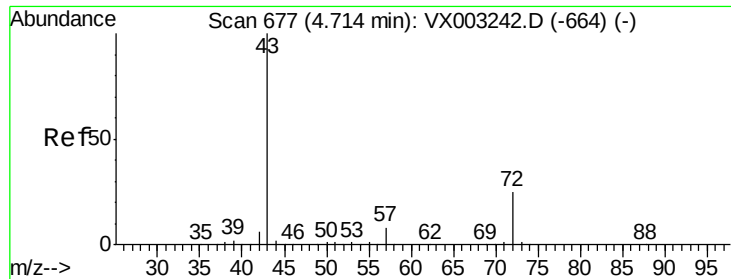
Tot Ion: 43 Resp: 21700
Ion Ratio Lower Upper
43 100
74 22.0 16.7 25.1



#20
Methylene Chloride
Concen: 71.49 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003274.D
Acq: 10 Jul 2018 04:57

Tgt Ion: 84 Resp: 204130
Ion Ratio Lower Upper
84 100
49 122.2 107.8 161.6
51 37.7 32.8 49.2
86 63.4 52.5 78.7





#25

2-Butanone

Concen: 3.31 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampled :

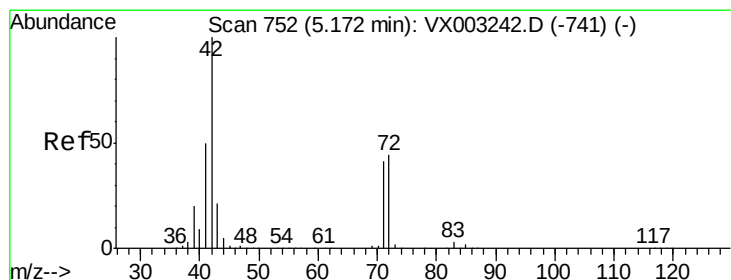
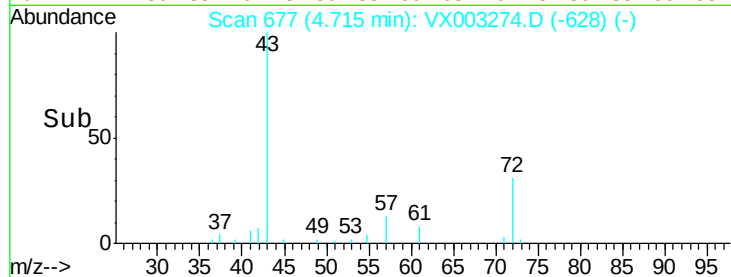
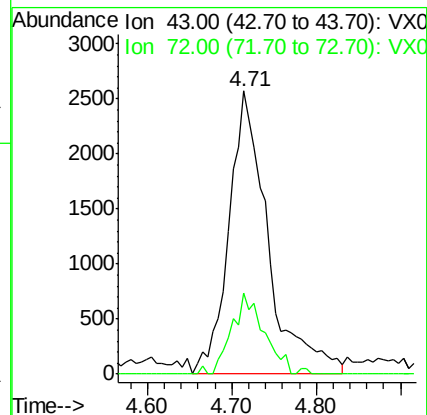
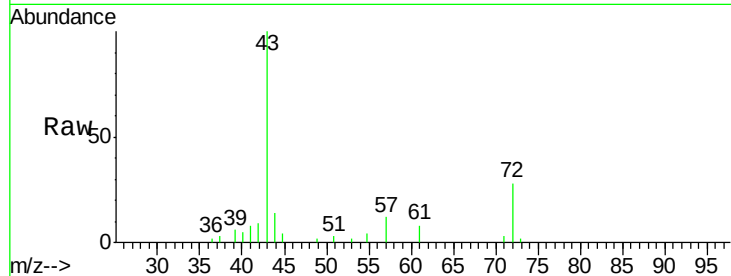
BS-S-7-SOIL

Tot Ion: 43 Resp: 8184

Ion Ratio Lower Upper

43 100

72 28.5 18.5 27.7#



#29

Tetrahydrofuran

Concen: 0.93 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

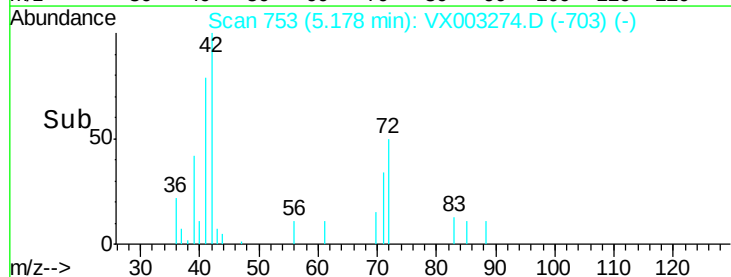
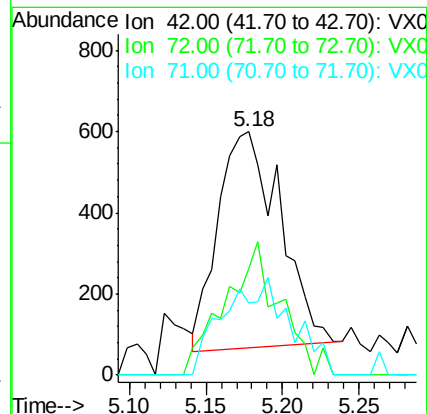
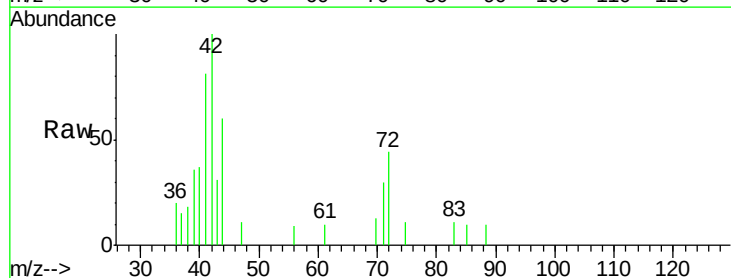
Tgt Ion: 42 Resp: 1499

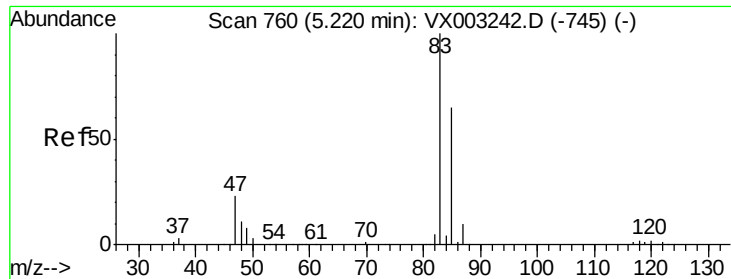
Ion Ratio Lower Upper

42 100

72 55.0 32.0 48.0#

71 48.7 30.1 45.1#





#30

Chloroform

Concen: 0.30 ug/l

RT: 5.21 min Scan# 758

Delta R.T. -0.01 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampled :

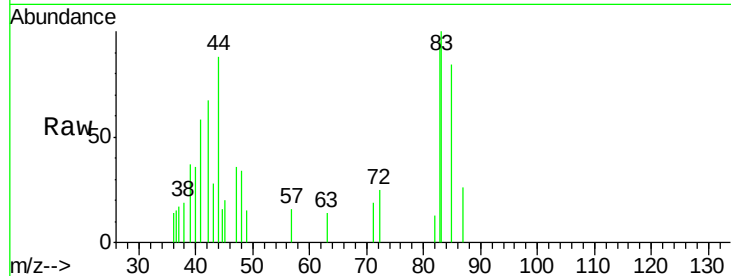
BS-S-7-SOIL

Tot Ion: 83 Resp: 1849

Ion Ratio Lower Upper

83 100

85 42.8 50.4 75.6#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.21

800

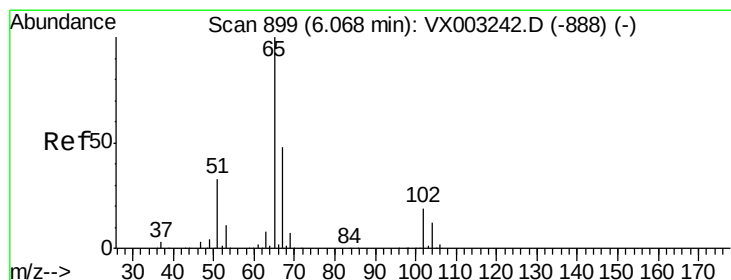
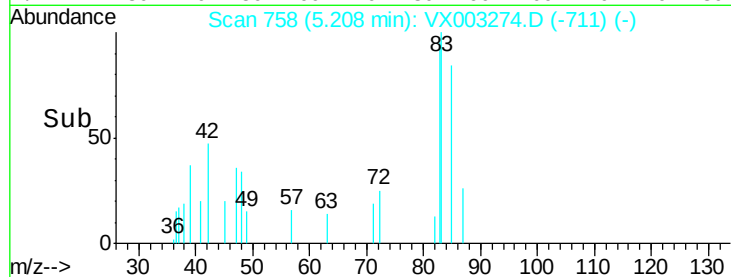
600

400

200

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 40.61 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003274.D

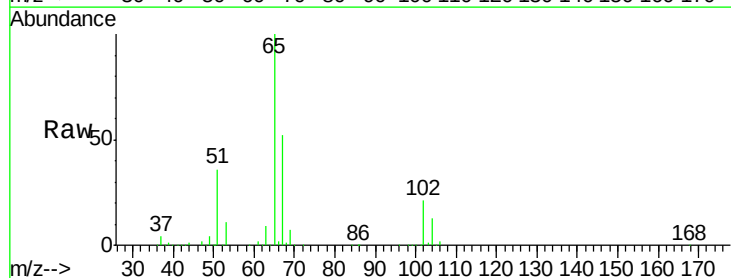
Acq: 10 Jul 2018 04:57

Tgt Ion: 65 Resp: 160079

Ion Ratio Lower Upper

65 100

67 52.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

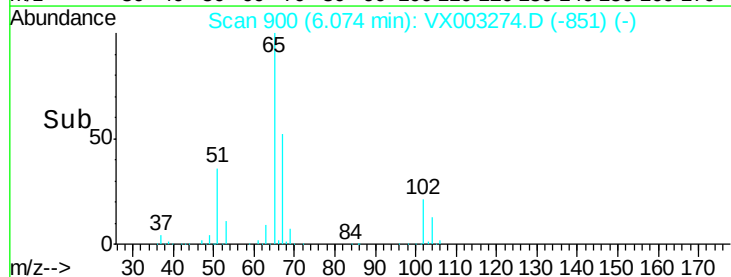
60000

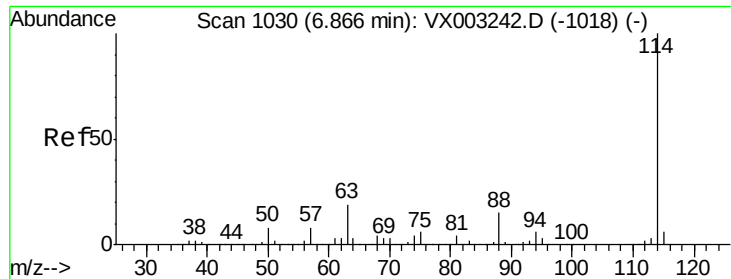
40000

20000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampleId :

BS-S-7-SOIL

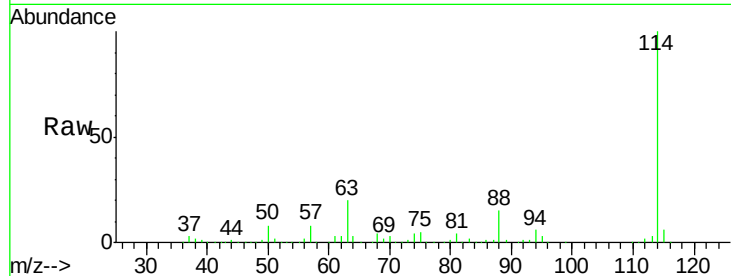
Tot Ion:114 Resp: 348816

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

88 14.6 0.0 30.0



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

200000

150000

100000

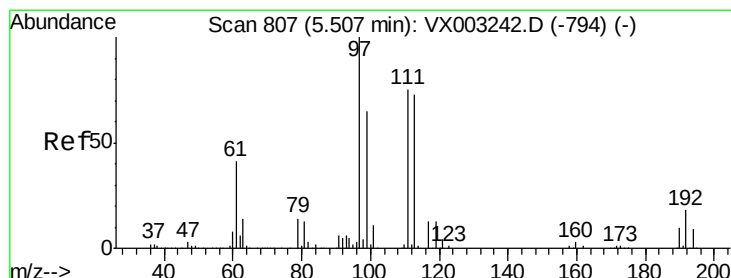
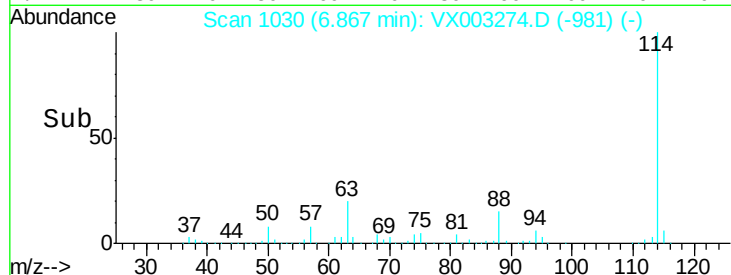
50000

0

6.87

6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 36.41 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

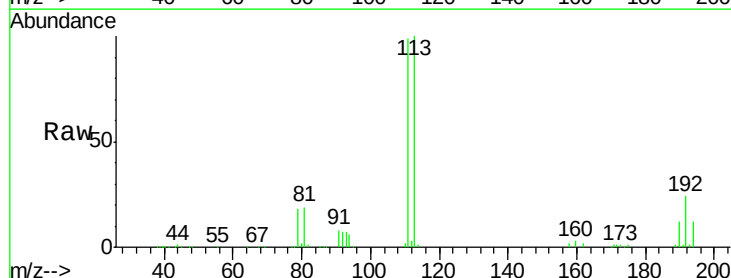
Tgt Ion:113 Resp: 136461

Ion Ratio Lower Upper

113 100

111 101.7 81.4 122.0

192 24.7 19.1 28.7



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

60000

40000

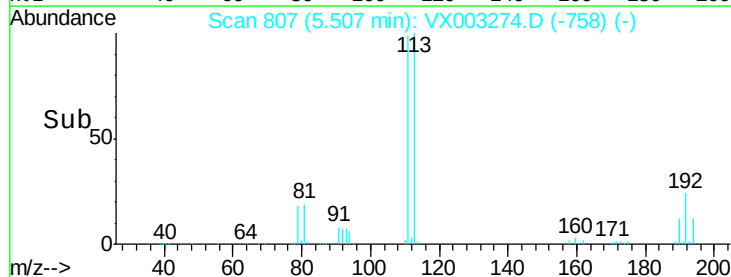
20000

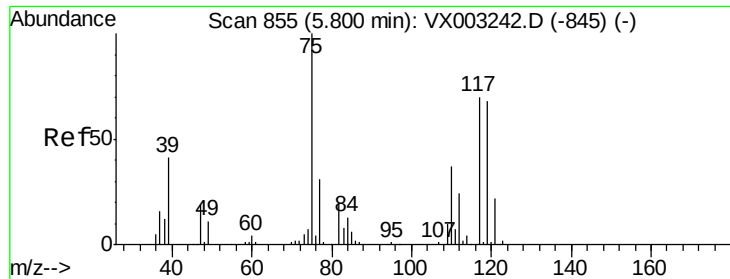
0

5.51

5.40 5.50 5.60

Time-->

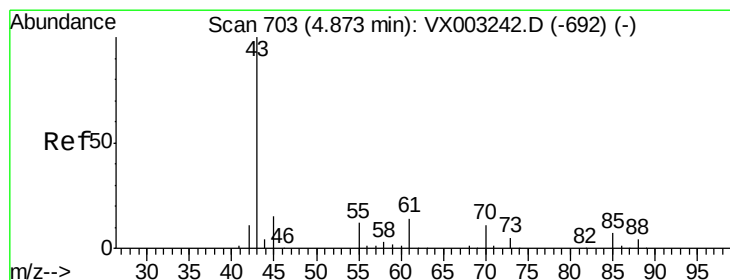
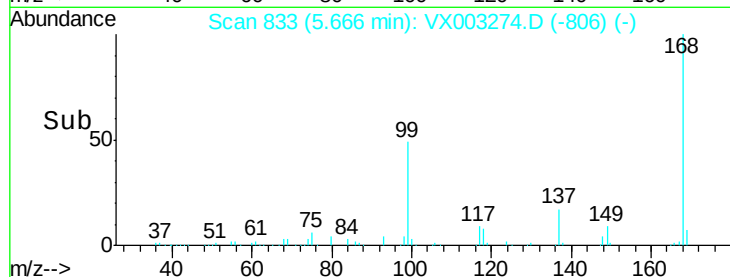
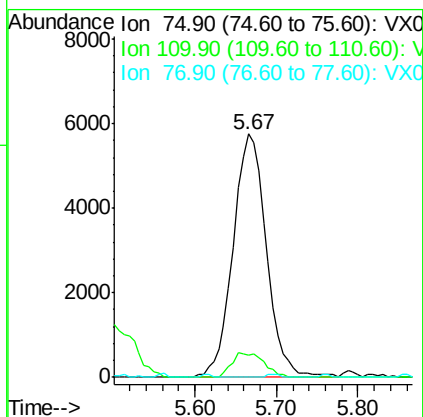
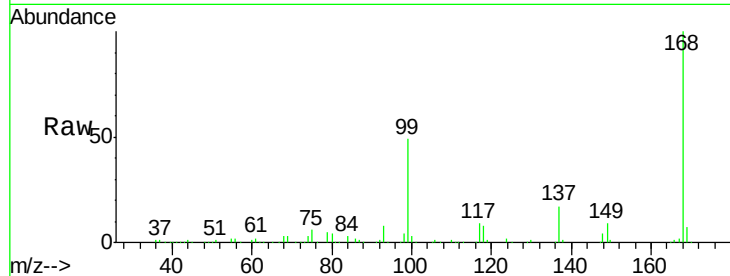




#36
 1,1-Dichloropropene
 Concen: 3.30 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003274.D
 Acq: 10 Jul 2018 04:57

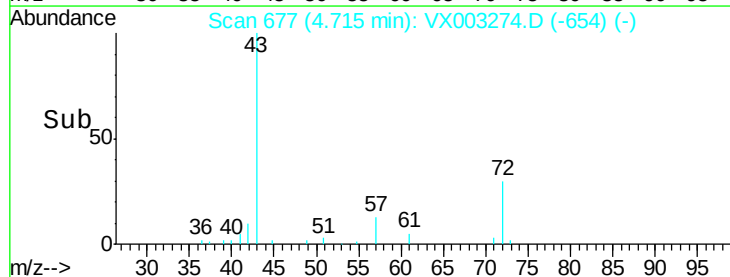
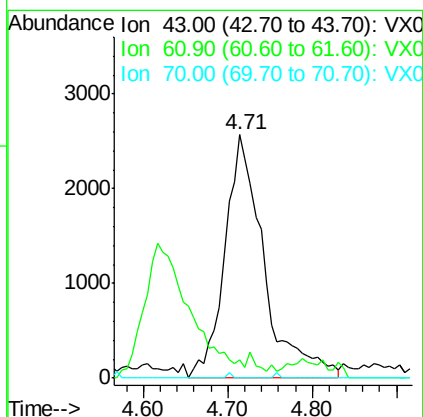
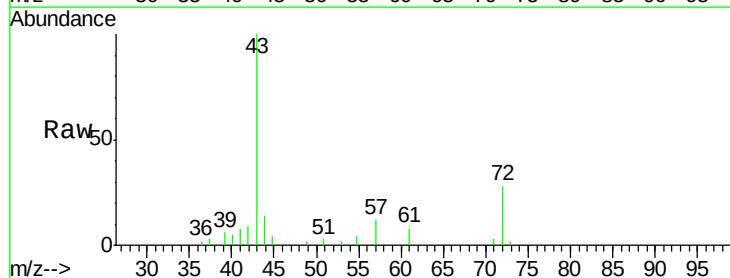
Instrument :
 MSVOA_X
 ClientSampleId :
 BS-S-7-SOIL

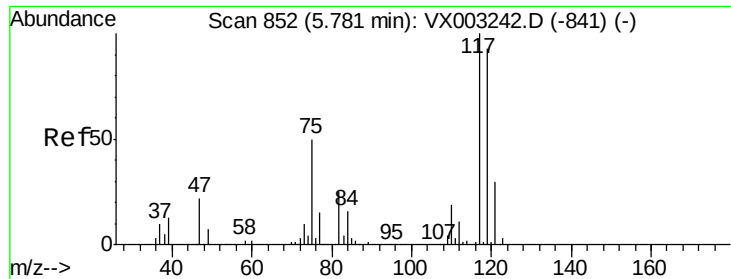
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.7	18.1	54.4#
77	0.0	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 1.51 ug/l
 RT: 4.71 min Scan# 677
 Delta R.T. -0.16 min
 Lab File: VX003274.D
 Acq: 10 Jul 2018 04:57

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.4	15.6#
70	0.2	7.6	11.4#





#38

Carbon Tetrachloride

Concen: 4.05 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampled :

BS-S-7-SOIL

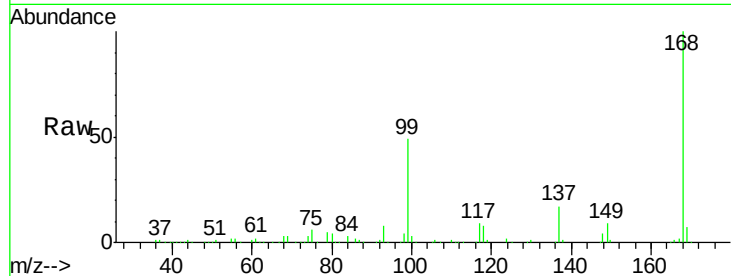
Tot Ion:117 Resp: 21879

Ion Ratio Lower Upper

117 100

119 6.9 77.4 116.0#

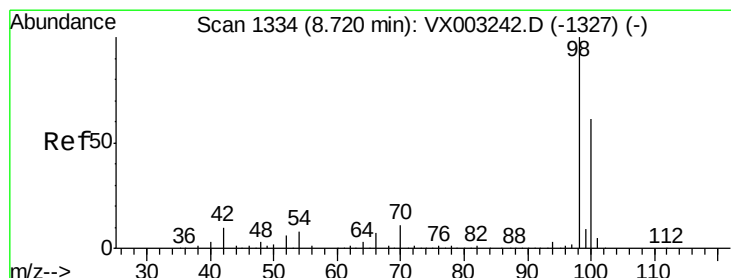
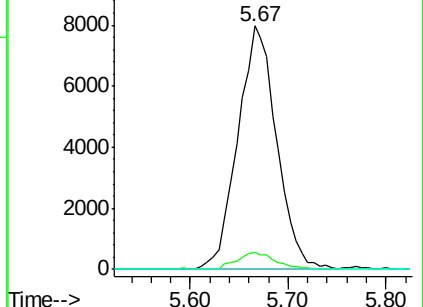
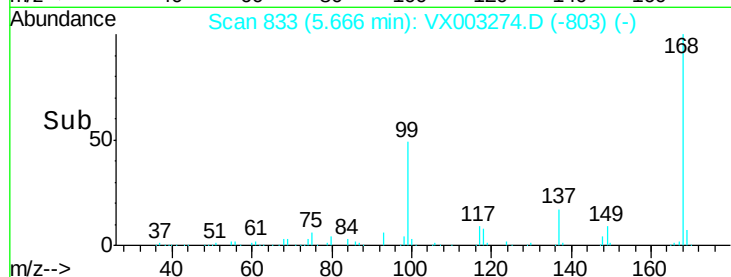
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 37.56 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003274.D

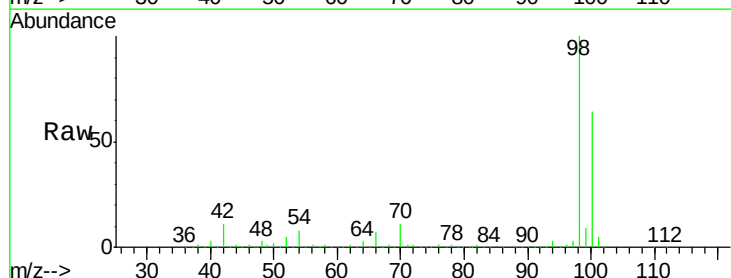
Acq: 10 Jul 2018 04:57

Tgt Ion: 98 Resp: 499919

Ion Ratio Lower Upper

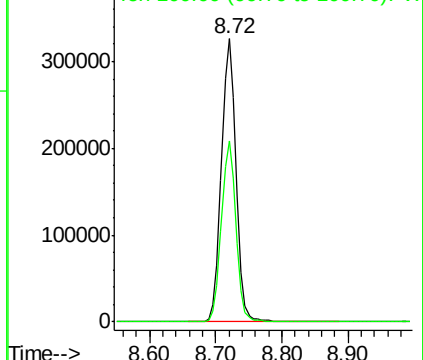
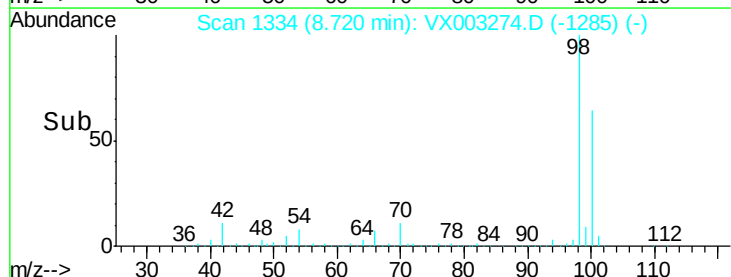
98 100

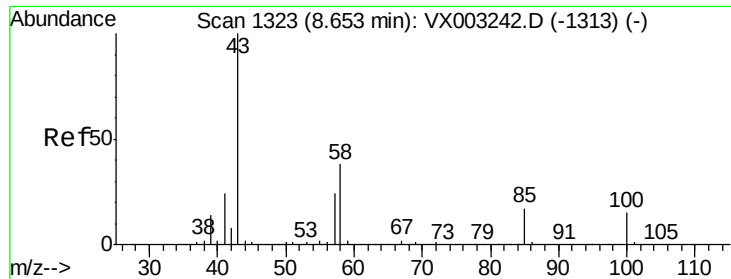
100 63.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampled :

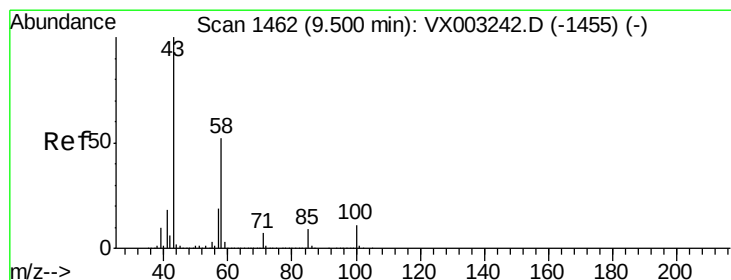
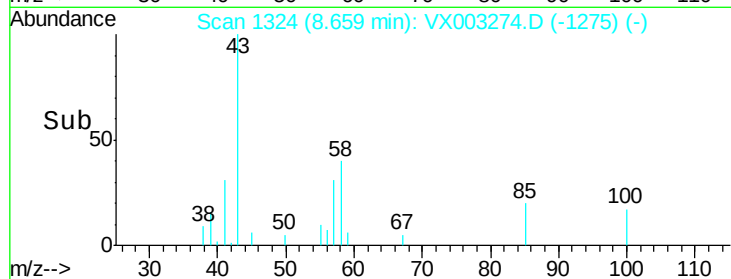
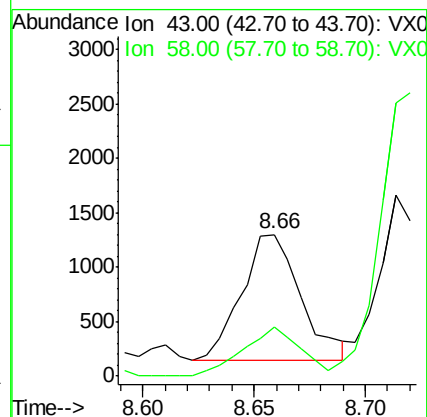
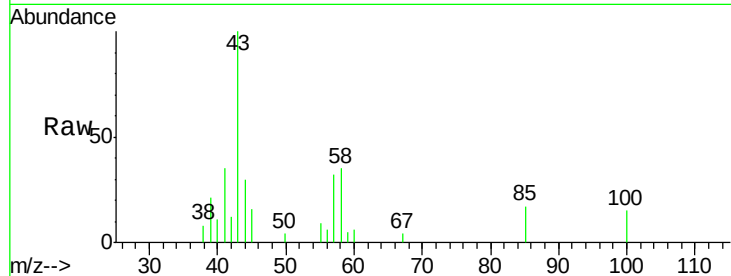
BS-S-7-SOIL

Tot Ion: 43 Resp: 2141

Ion Ratio Lower Upper

43 100

58 37.7 28.6 42.8



#59

2-Hexanone

Concen: 0.23 ug/l

RT: 9.51 min Scan# 1464

Delta R.T. 0.01 min

Lab File: VX003274.D

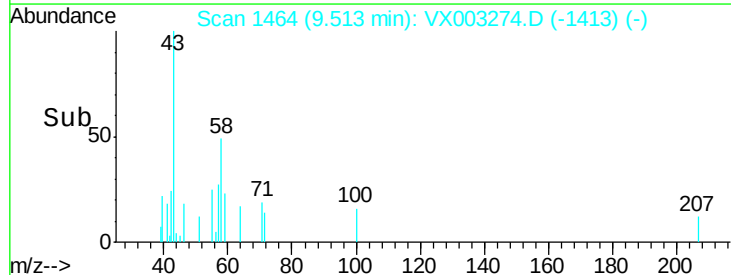
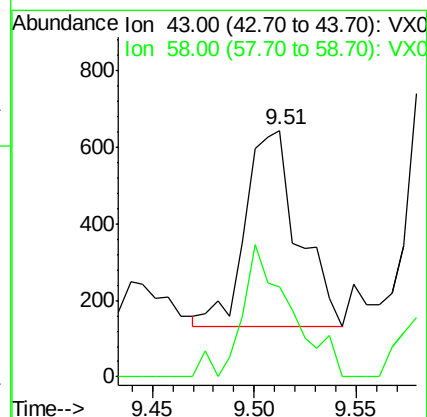
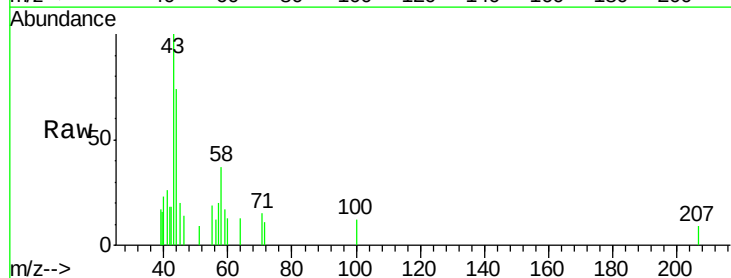
Acq: 10 Jul 2018 04:57

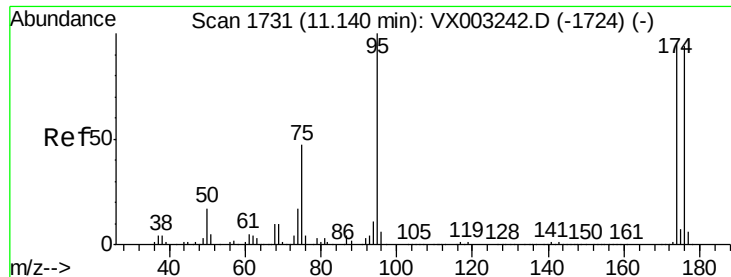
Tgt Ion: 43 Resp: 916

Ion Ratio Lower Upper

43 100

58 62.4 24.6 73.6





#62

4-Bromofluorobenzene

Concen: 34.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampleId :

BS-S-7-SOIL

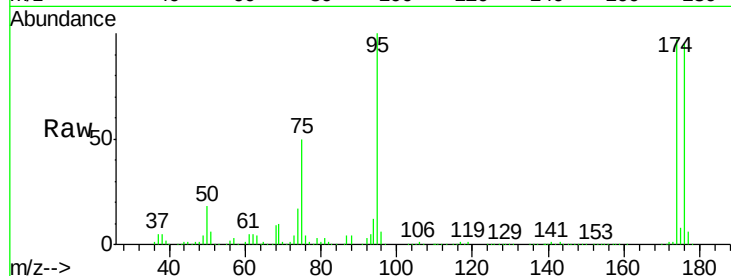
Tot Ion: 95 Resp: 171006

Ion Ratio Lower Upper

95 100

174 100.4 0.0 187.4

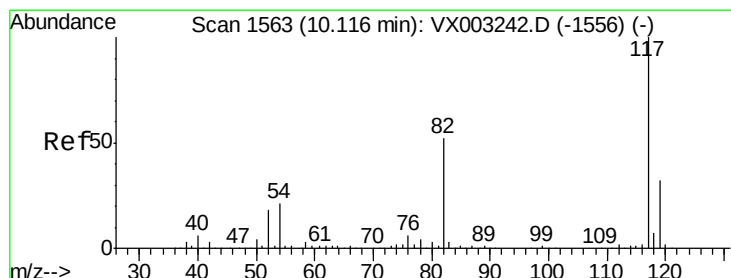
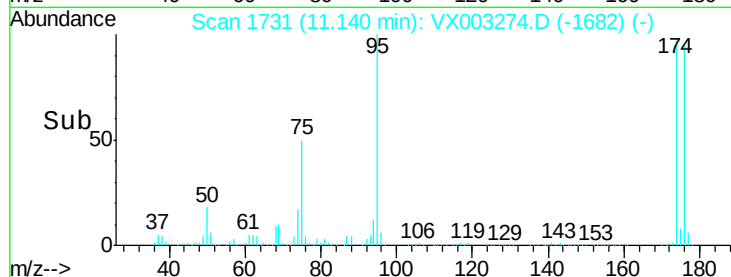
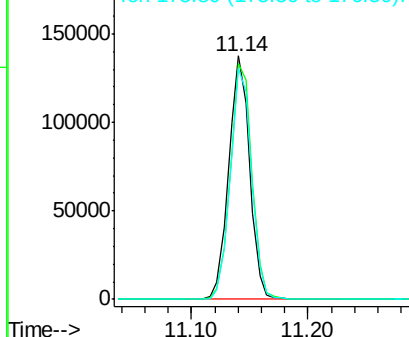
176 96.9 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003274.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003274.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003274.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

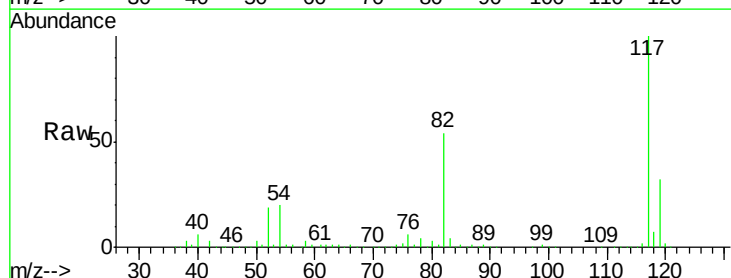
Tgt Ion: 117 Resp: 326612

Ion Ratio Lower Upper

117 100

82 54.0 45.0 67.4

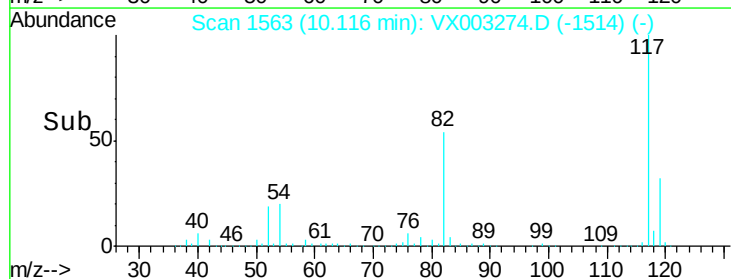
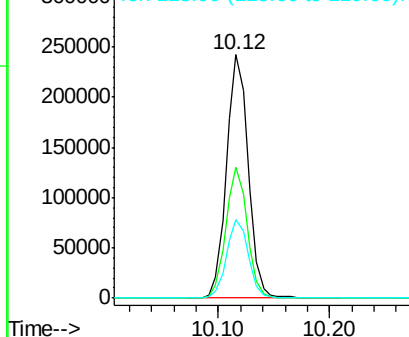
119 32.3 25.8 38.6

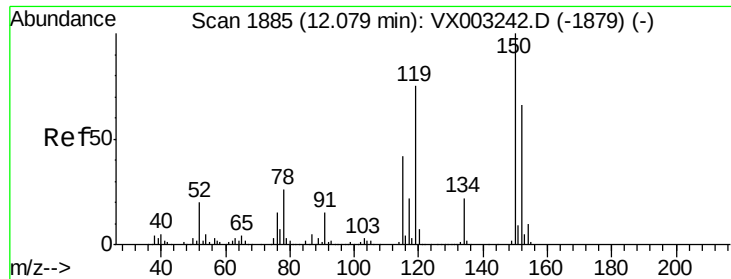


Abundance Ion 116.90 (116.60 to 117.60): VX003274.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003274.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003274.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampled :

BS-S-7-SOIL

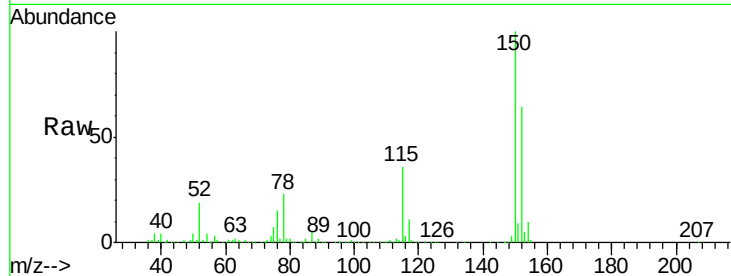
Tot Ion:152 Resp: 191314

Ion Ratio Lower Upper

152 100

115 53.6 40.1 120.2

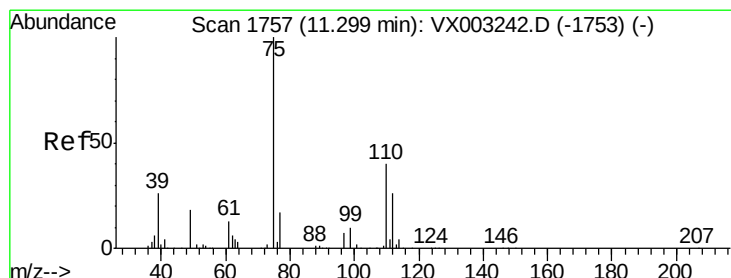
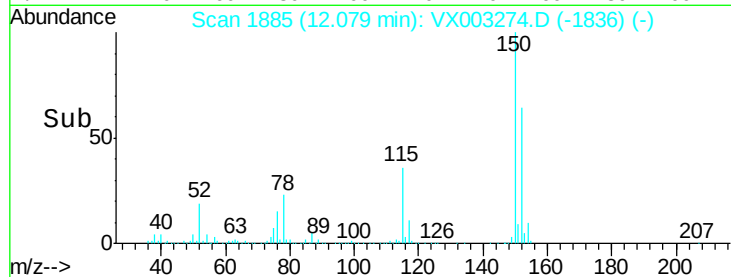
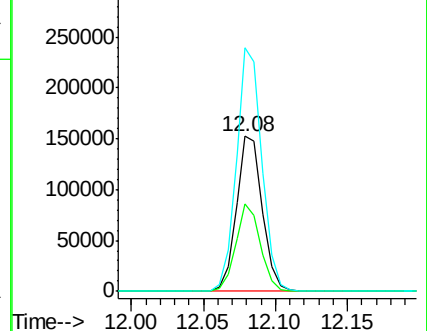
150 155.3 0.0 347.2



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



#76

1,2,3-Trichloropropane

Concen: 20.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003274.D

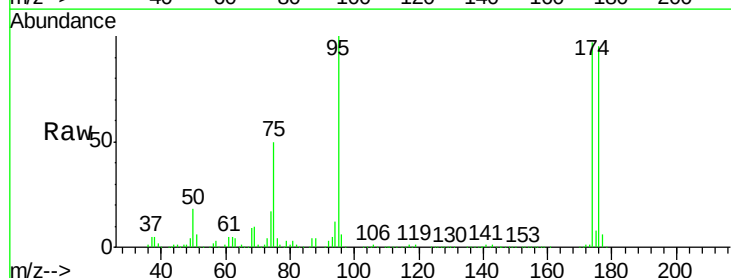
Acq: 10 Jul 2018 04:57

Tgt Ion: 75 Resp: 85460

Ion Ratio Lower Upper

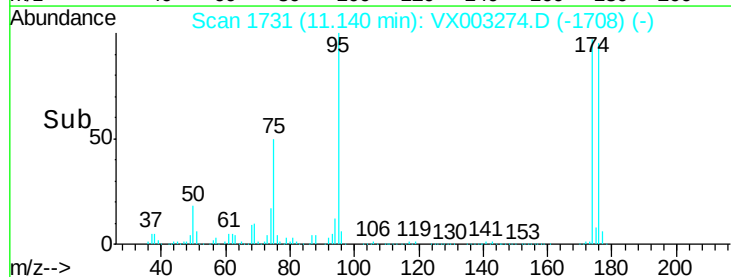
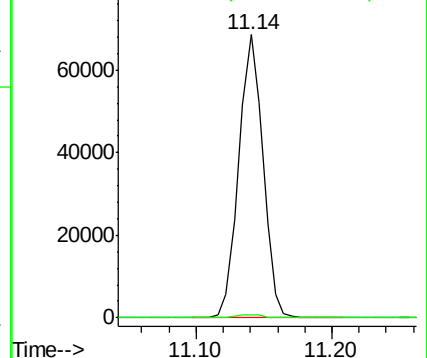
75 100

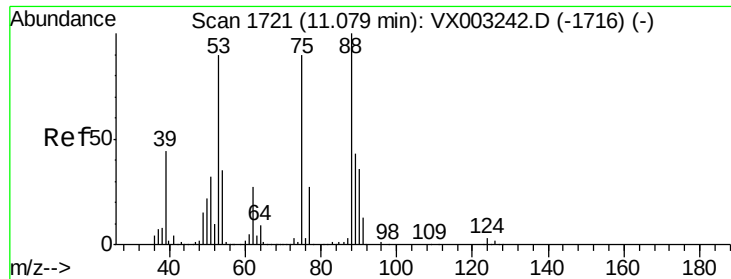
77 1.3 22.8 68.3#



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: 67.55 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampled :

BS-S-7-SOIL

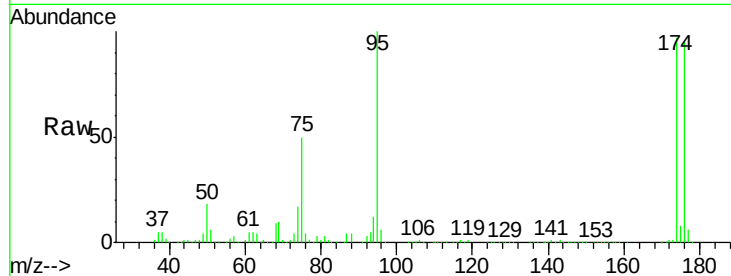
Tot Ion: 75 Resp: 85460

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

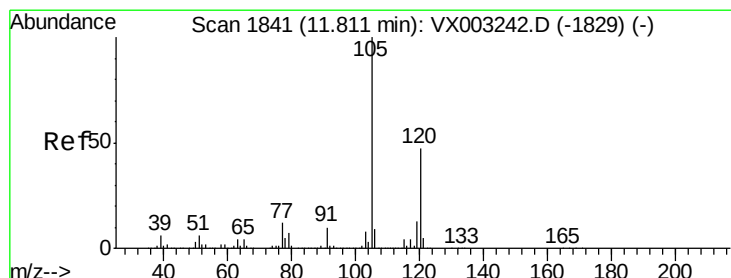
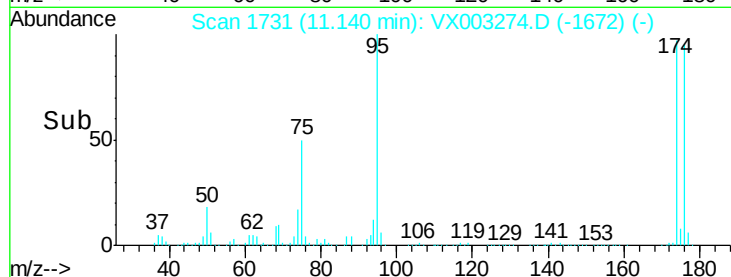
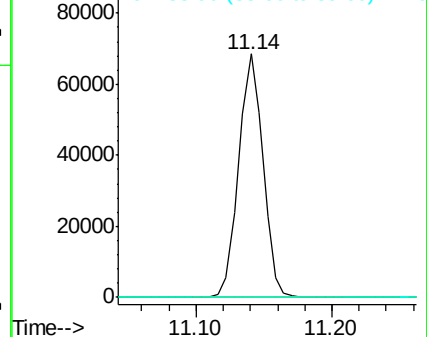
89 0.0 38.2 57.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.27 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX003274.D

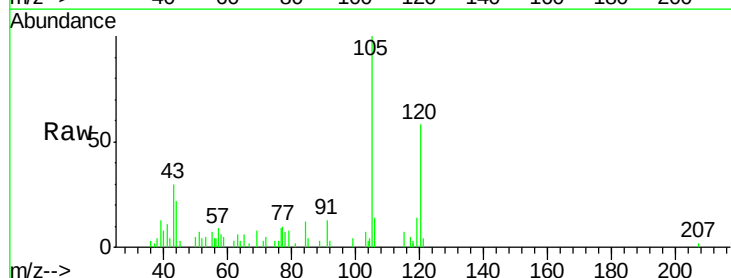
Acq: 10 Jul 2018 04:57

Tgt Ion: 105 Resp: 3483

Ion Ratio Lower Upper

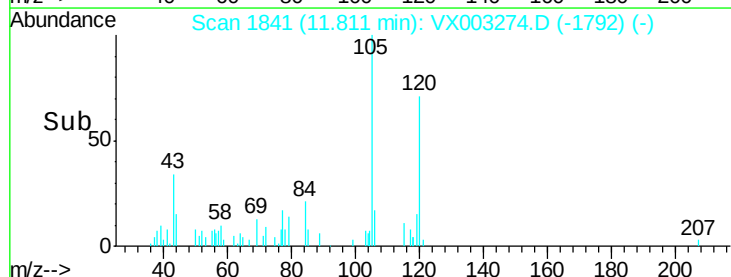
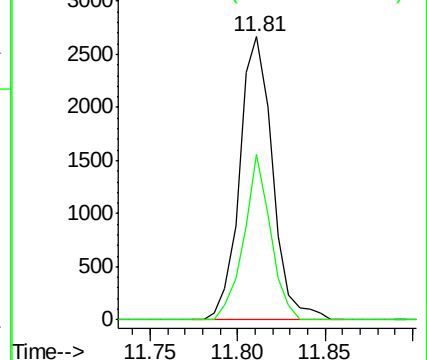
105 100

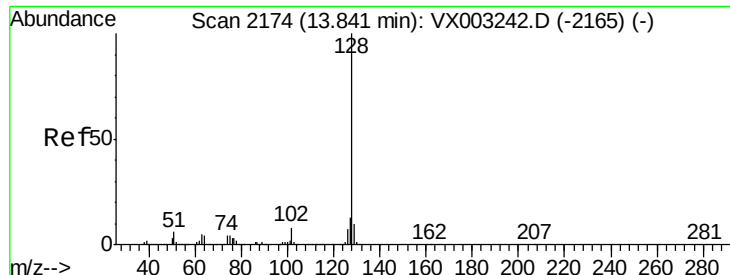
120 47.1 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 13.59 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX003274.D

Acq: 10 Jul 2018 04:57

Instrument :

MSVOA_X

ClientSampleId :

BS-S-7-SOIL

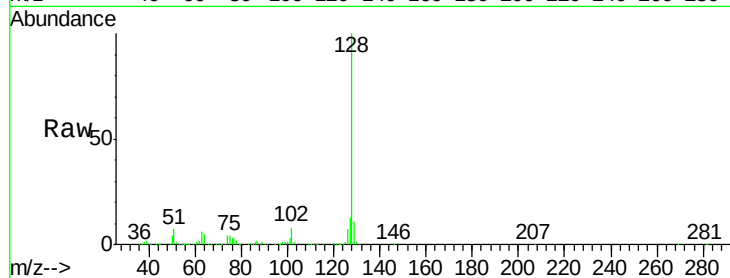
Tot Ion:128 Resp: 207919

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

129 10.9 8.6 13.0



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

