

Data File : VX001615.D
Acq On : 10 May 2018 21:15
Operator : JC/MD
Sample : J1585-11 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FMS-SOIL-1

Quant Time: May 11 07:01:37 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
Quant Title : SW846 8260
QLast Update : Sun May 06 07:59:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	231000	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	313635	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	272725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	141927	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	158275	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
35) Dibromofluoromethane	5.51	113	122875	44.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.10%	
50) Toluene-d8	8.72	98	428138	42.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.08%	
62) 4-Bromofluorobenzene	11.15	95	135211	34.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.18%	

Target Compounds				Qvalue		
5) Bromomethane	1.65	94	831	Below Cal		83
8) Diethyl Ether	2.19	74	1216	0.65 ug/l		98
11) Tert butyl alcohol	3.09	59	179	0.26 ug/l #		66
13) Acrolein	2.31	56	48	Below Cal #		1
16) Acetone	2.45	43	4068	2.70 ug/l		96
18) Methyl Acetate	2.78	43	6411	1.62 ug/l		93
20) Methylene Chloride	2.86	84	7294	2.44 ug/l #		86
25) 2-Butanone	4.73	43	1526	0.70 ug/l		92
29) Tetrahydrofuran	5.19	42	1022	0.73 ug/l #		56
30) Chloroform	5.23	83	1457	0.28 ug/l		90
31) Cyclohexane	5.67	56	3933	0.92 ug/l #		1
36) 1,1-Dichloropropene	5.67	75	14842	3.72 ug/l #		49
38) Carbon Tetrachloride	5.67	117	20300	4.77 ug/l #		16
44) Trichloroethene	7.21	130	1357	0.38 ug/l		98
76) 1,2,3-Trichloropropane	11.14	75	67129	23.32 ug/l #		38
81) trans-1,4-Dichloro-2-buten	11.14	75	67129	72.27 ug/l #		7
84) 1,2,4-Trimethylbenzene	11.81	105	1742	0.21 ug/l		95
90) Hexachloroethane	12.48	117	279	0.21 ug/l #		1
95) Naphthalene	13.84	128	51829	4.93 ug/l		99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

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MSVOA_X

ClientSampleId :

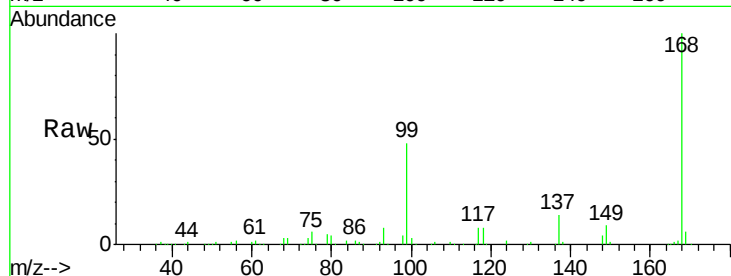
FMS-SOIL-1

Tgt Ion:168 Resp: 231000

Ion Ratio Lower Upper

168 100

99 48.0 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

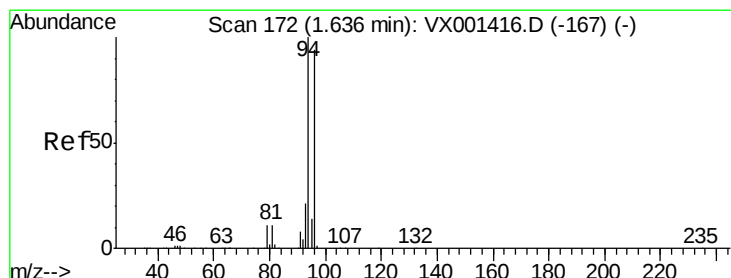
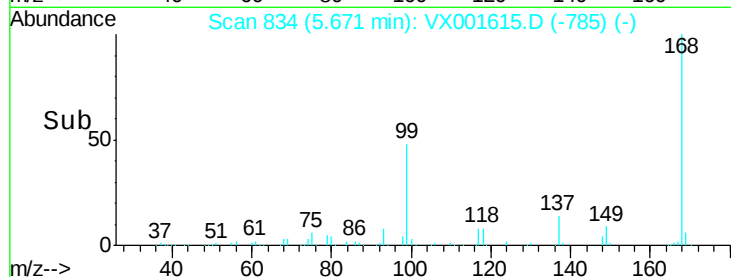
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001615.D

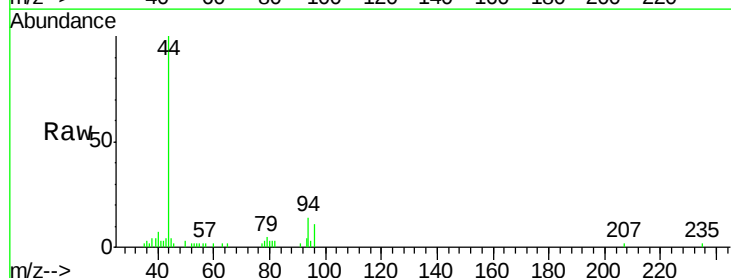
Acq: 10 May 2018 21:15

Tgt Ion: 94 Resp: 831

Ion Ratio Lower Upper

94 100

96 77.8 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

300

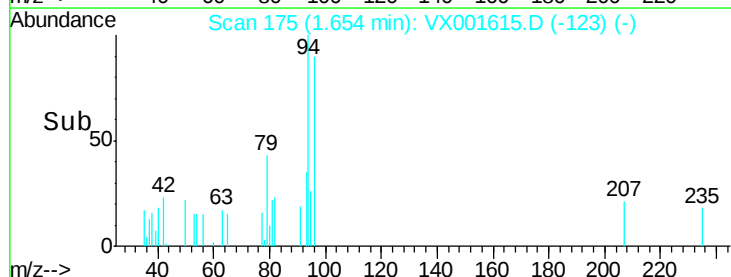
200

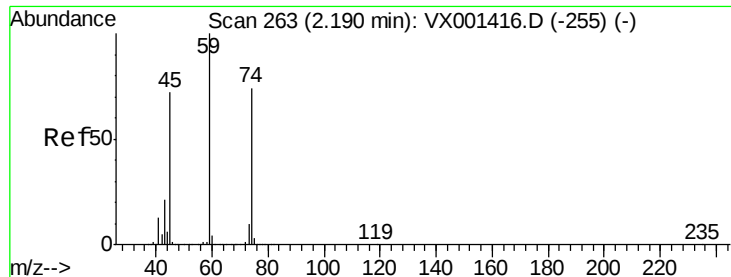
100

0

Time-->

1.60 1.65 1.70





#8

Diethyl Ether

Concen: 0.65 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

Instrument :

MSVOA_X

ClientSampleId :

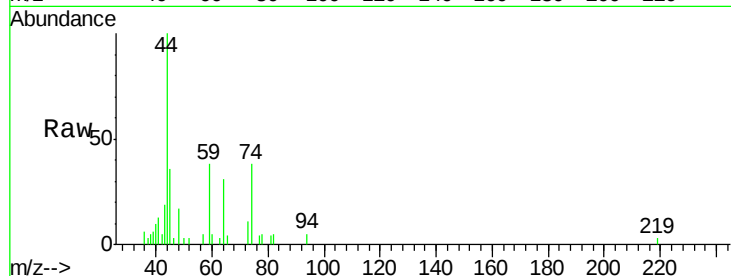
FMS-SOIL-1

Tgt Ion: 74 Resp: 1216

Ion Ratio Lower Upper

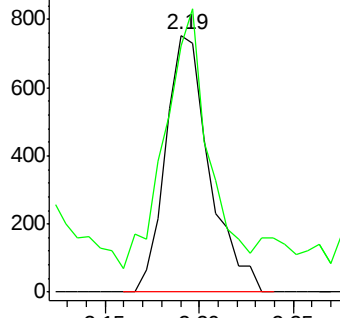
74 100

45 97.5 47.9 143.6

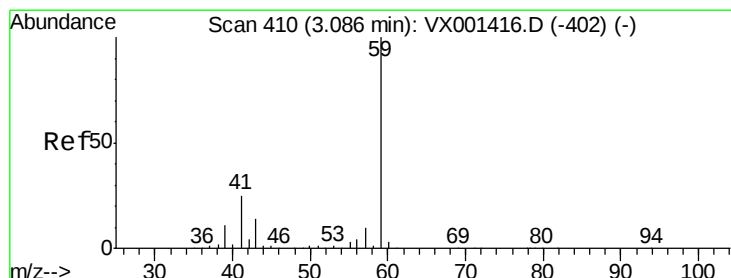
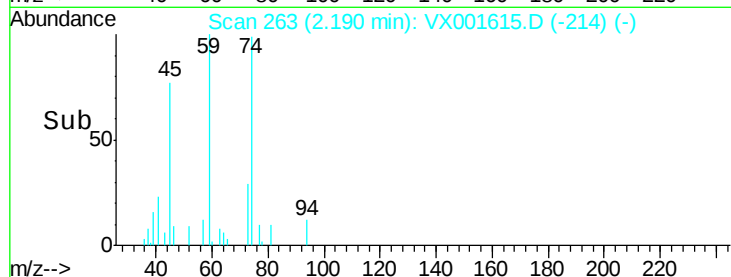


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#11

Tert butyl alcohol

Concen: 0.26 ug/l

RT: 3.09 min Scan# 411

Delta R.T. 0.01 min

Lab File: VX001615.D

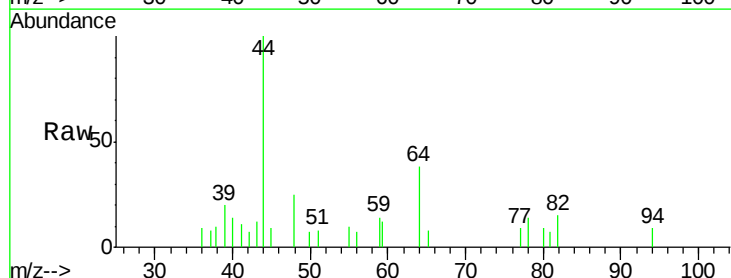
Acq: 10 May 2018 21:15

Tgt Ion: 59 Resp: 179

Ion Ratio Lower Upper

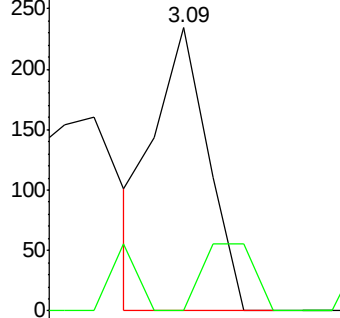
59 100

57 22.9 8.2 12.4#

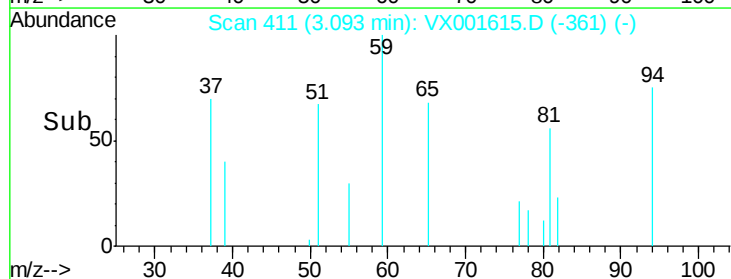


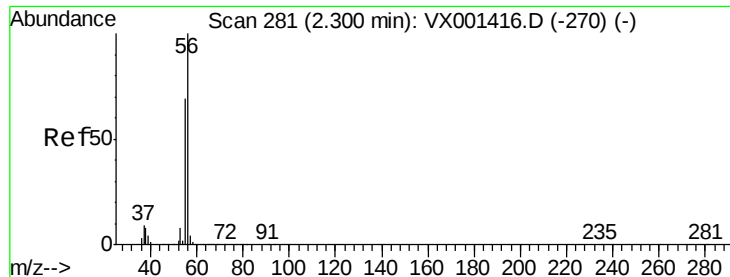
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 283

Delta R.T. 0.01 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

Instrument :

MSVOA_X

ClientSampleId :

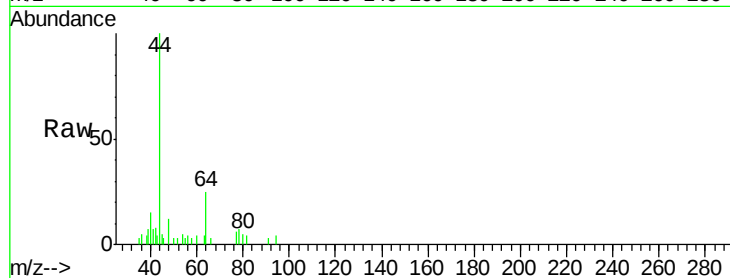
FMS-SOIL-1

Tgt Ion: 56 Resp: 48

Ion Ratio Lower Upper

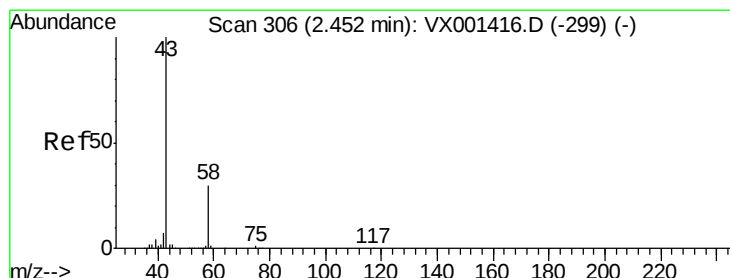
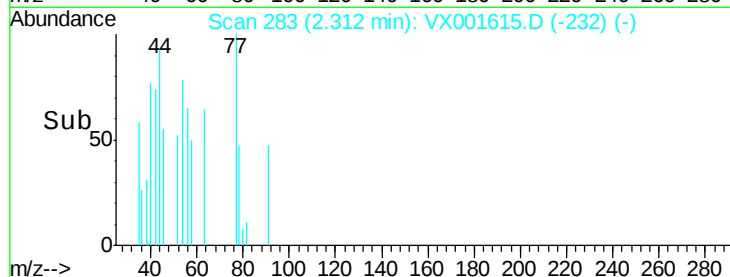
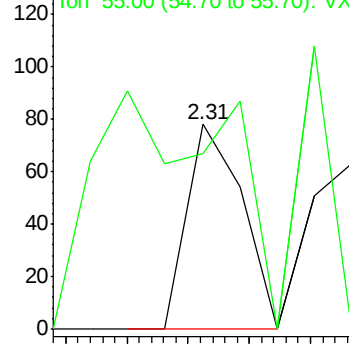
56 100

55 283.3 54.5 81.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.70 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001615.D

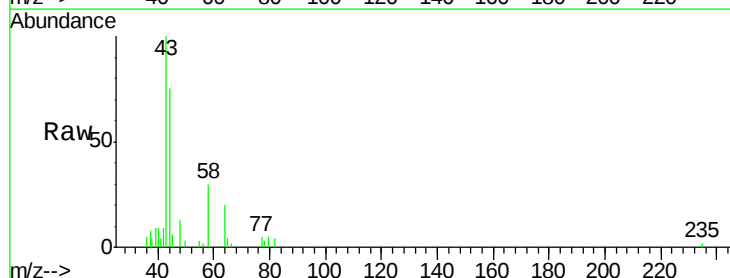
Acq: 10 May 2018 21:15

Tgt Ion: 43 Resp: 4068

Ion Ratio Lower Upper

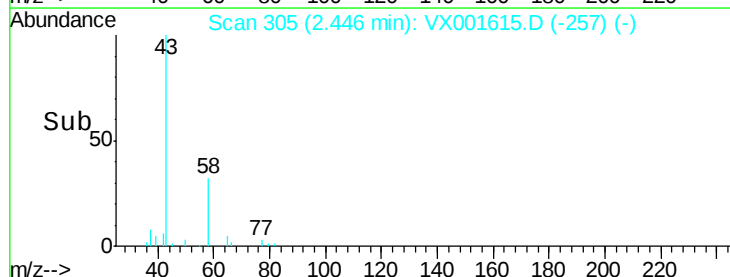
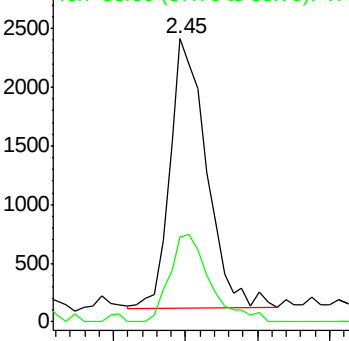
43 100

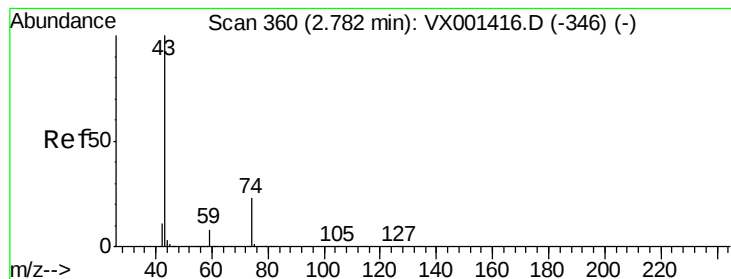
58 31.9 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#18

Methyl Acetate

Concen: 1.62 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

Instrument :

MSVOA_X

ClientSampleId :

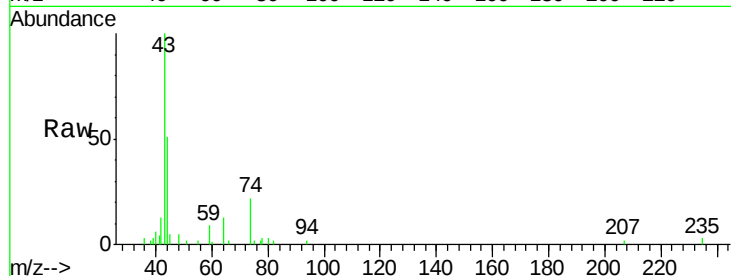
FMS-SOIL-1

Tgt Ion: 43 Resp: 6411

Ion Ratio Lower Upper

43 100

74 26.6 18.6 27.8

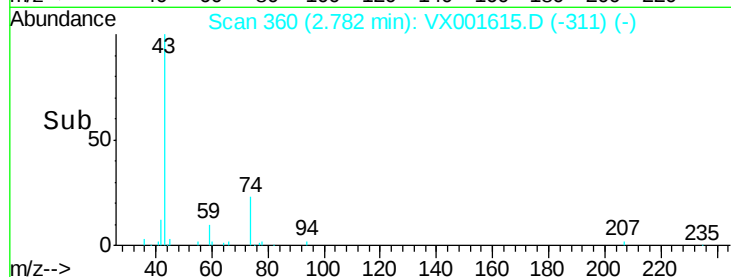


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

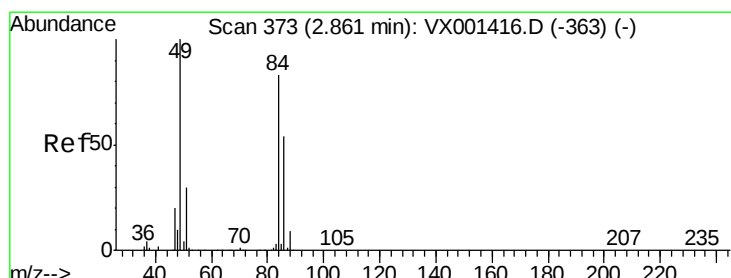
Time-->

2.78



Time-->

2.78



#20

Methylene Chloride

Concen: 2.44 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

Tgt Ion: 84 Resp: 7294

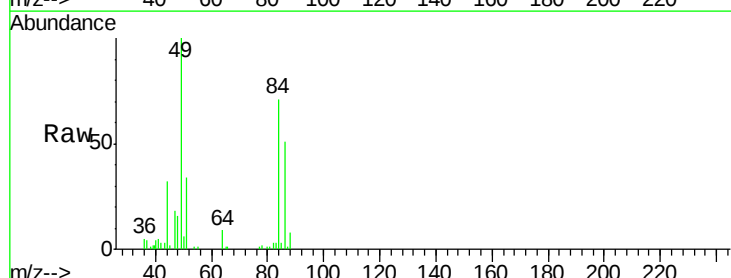
Ion Ratio Lower Upper

84 100

49 140.2 96.6 144.8

51 44.7 29.0 43.4#

86 71.7 52.2 78.4



Abundance Ion 83.90 (83.60 to 84.60): VX0

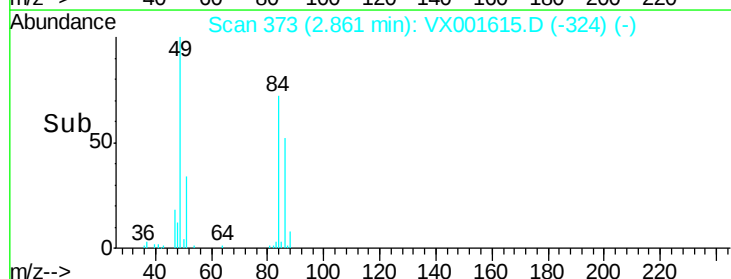
Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

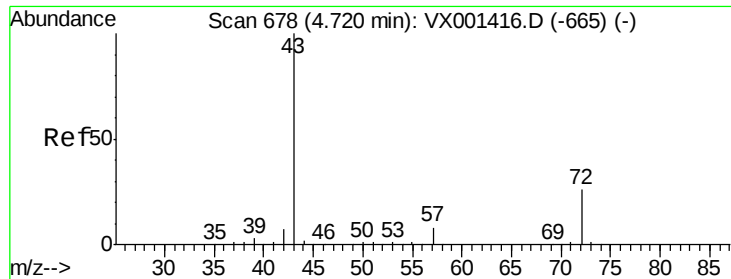
Time-->

2.86



Time-->

2.86



#25

2-Butanone

Concen: 0.70 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

Instrument :

MSVOA_X

ClientSampled :

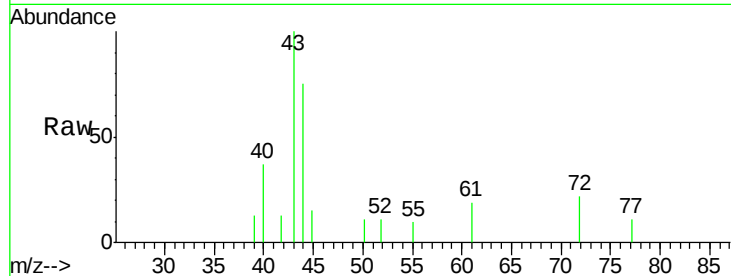
FMS-SOIL-1

Tgt Ion: 43 Resp: 1526

Ion Ratio Lower Upper

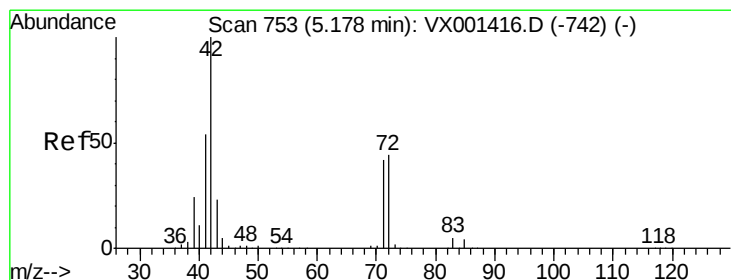
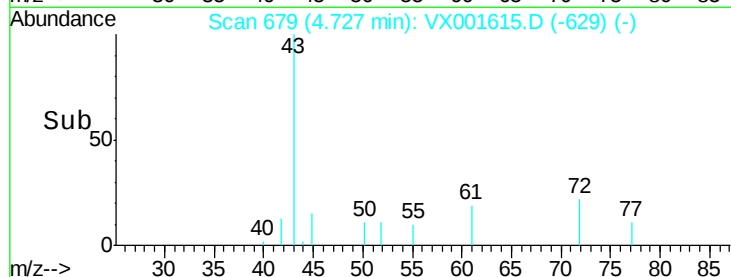
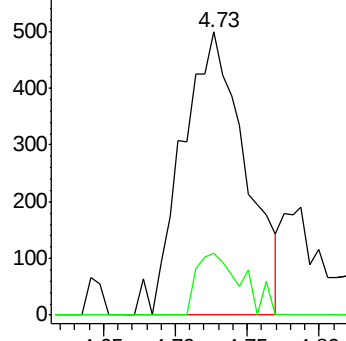
43 100

72 21.8 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.73 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

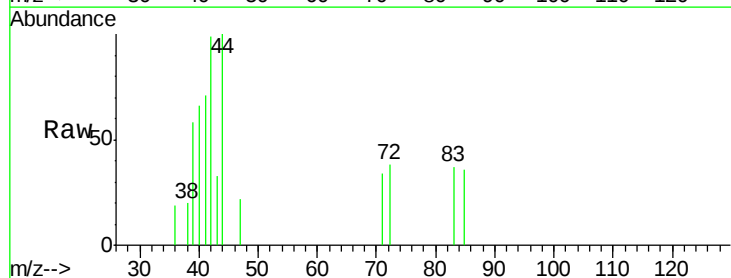
Tgt Ion: 42 Resp: 1022

Ion Ratio Lower Upper

42 100

72 10.1 35.4 53.2#

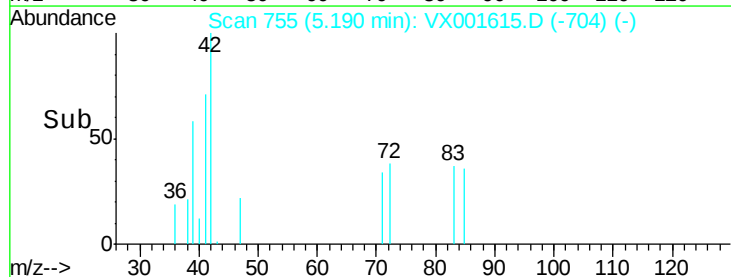
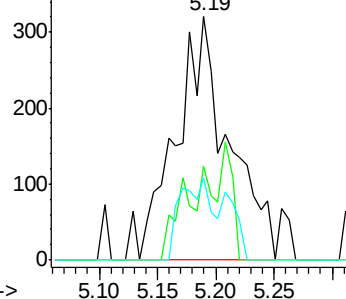
71 20.1 33.0 49.4#

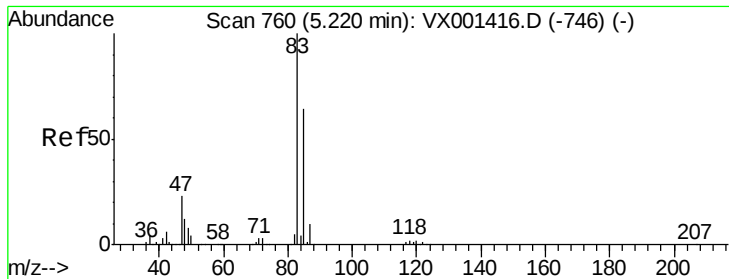


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

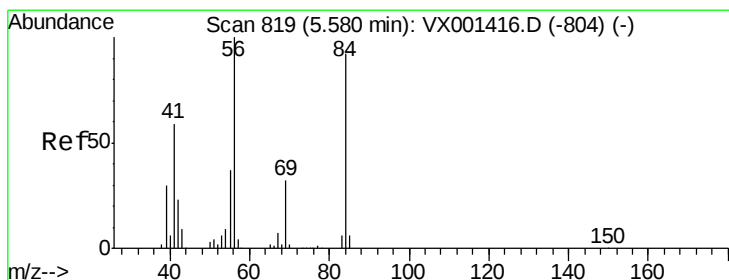
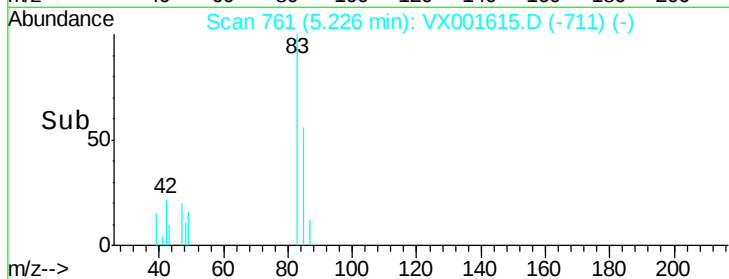
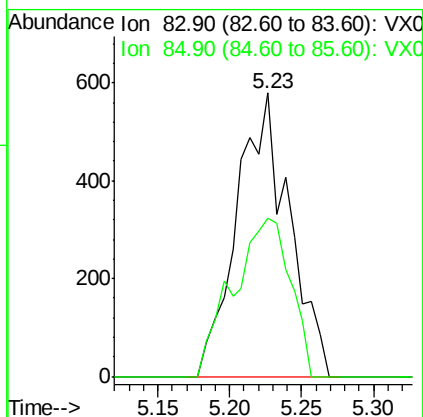
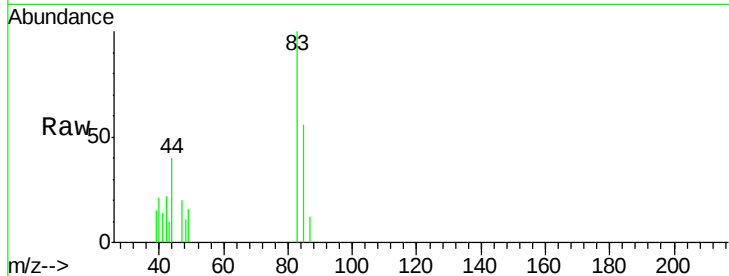




#30
Chloroform
Concen: 0.28 ug/l
RT: 5.23 min Scan# 761
Delta R.T. 0.01 min
Lab File: VX001615.D
Acq: 10 May 2018 21:15

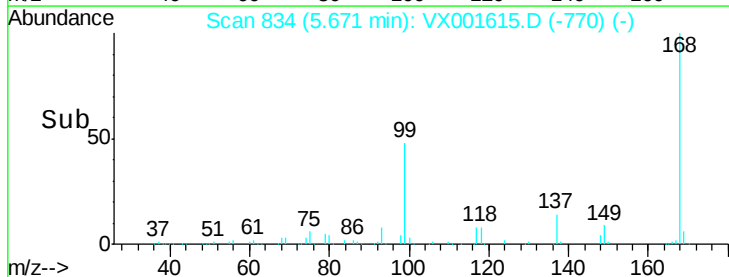
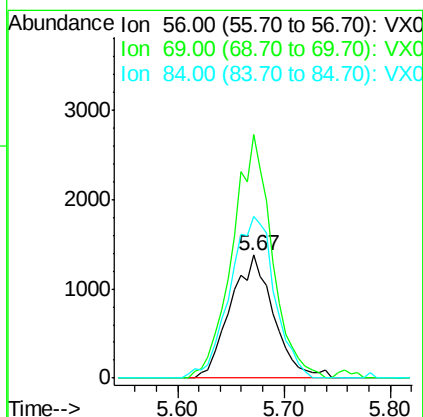
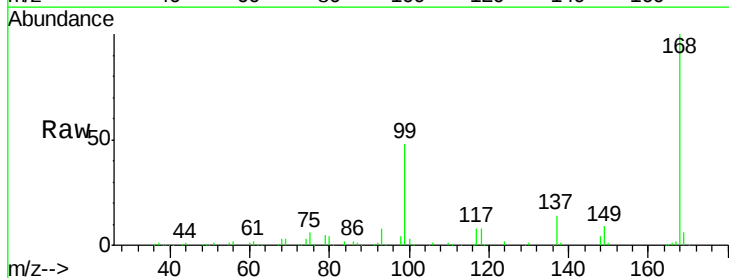
Instrument :
MSVOA_X
ClientSampleId :
FMS-SOIL-1

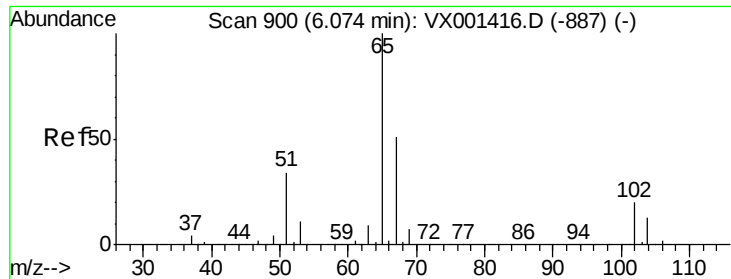
Tgt Ion: 83 Resp: 1457
Ion Ratio Lower Upper
83 100
85 56.0 51.0 76.4



#31
Cyclohexane
Concen: 0.92 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX001615.D
Acq: 10 May 2018 21:15

Tgt Ion: 56 Resp: 3933
Ion Ratio Lower Upper
56 100
69 197.8 25.4 38.0#
84 131.7 73.8 110.8#





#33

1,2-Dichloroethane-d4

Concen: 47.67 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

Instrument :

MSVOA_X

ClientSampleId :

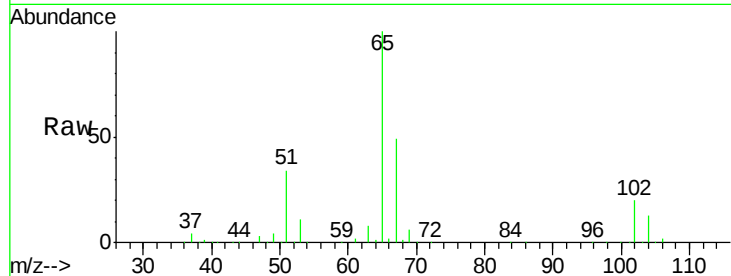
FMS-SOIL-1

Tgt Ion: 65 Resp: 158275

Ion Ratio Lower Upper

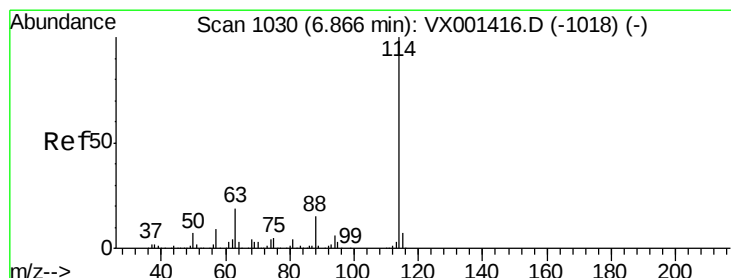
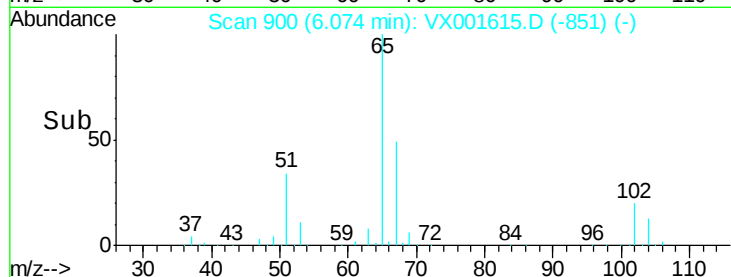
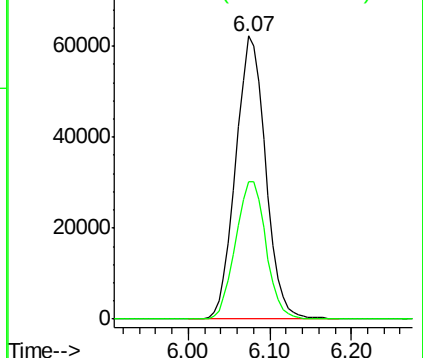
65 100

67 49.7 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

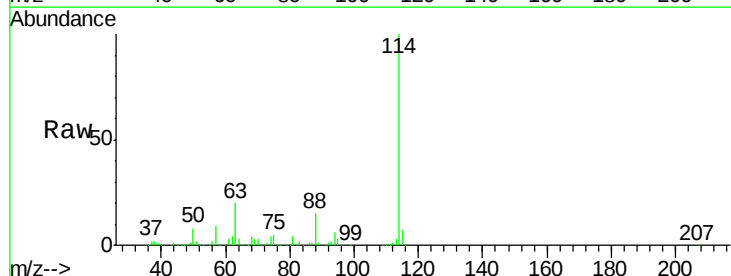
Tgt Ion: 114 Resp: 313635

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.6

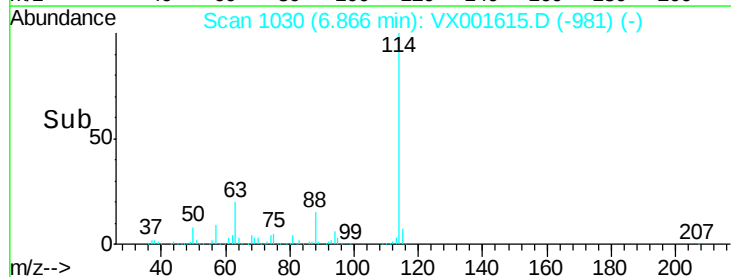
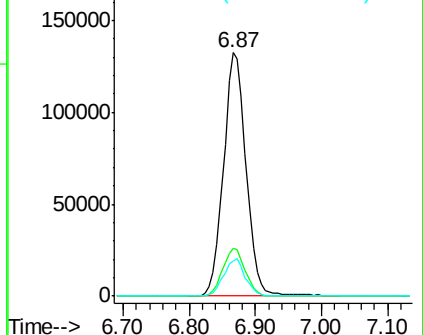
88 14.6 0.0 30.8

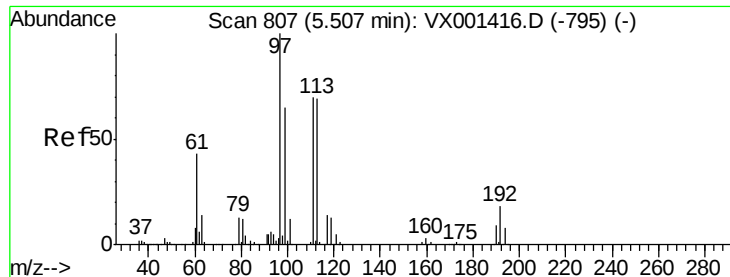


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 44.05 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

Instrument :

MSVOA_X

ClientSampleId :

FMS-SOIL-1

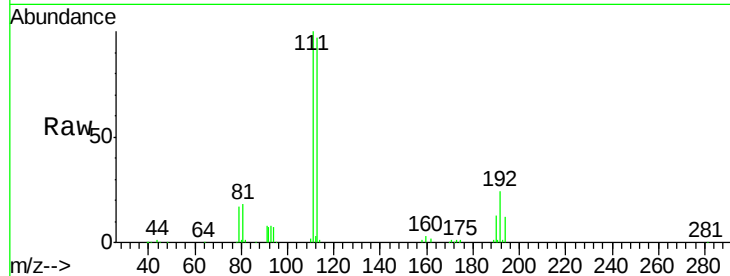
Tgt Ion:113 Resp: 122875

Ion Ratio Lower Upper

113 100

111 100.7 82.2 123.2

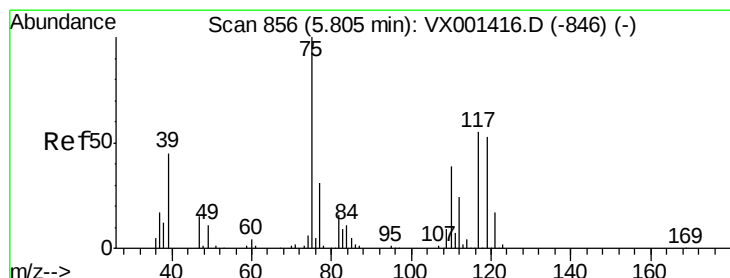
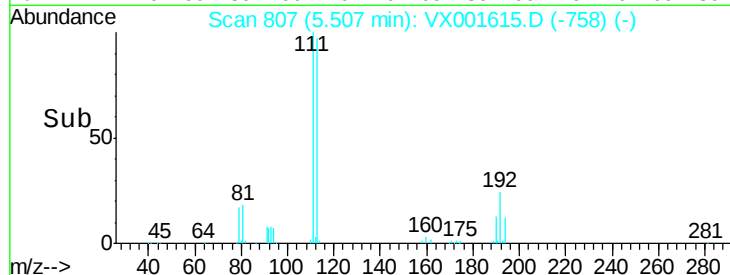
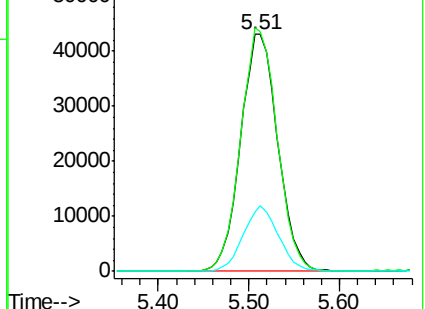
192 26.1 21.4 32.0



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: 3.72 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

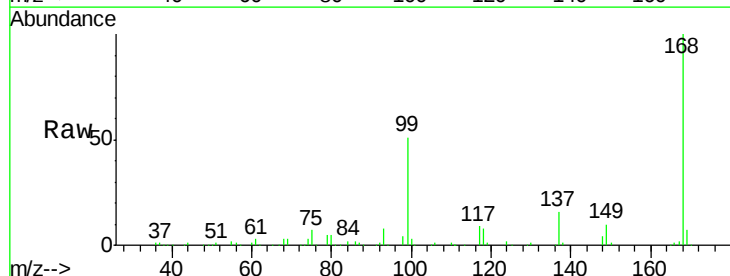
Tgt Ion: 75 Resp: 14842

Ion Ratio Lower Upper

75 100

110 10.3 18.9 56.7#

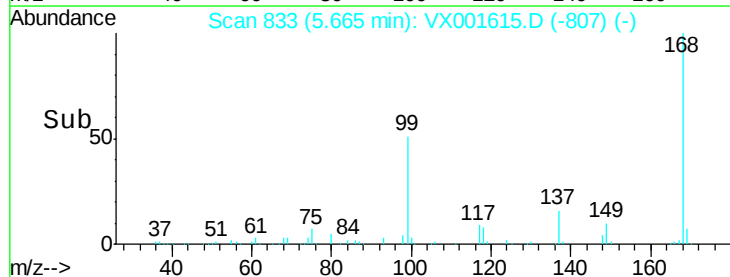
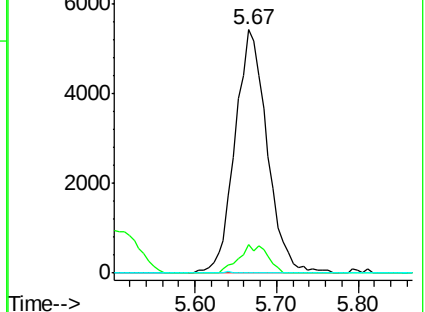
77 0.0 24.9 37.3#

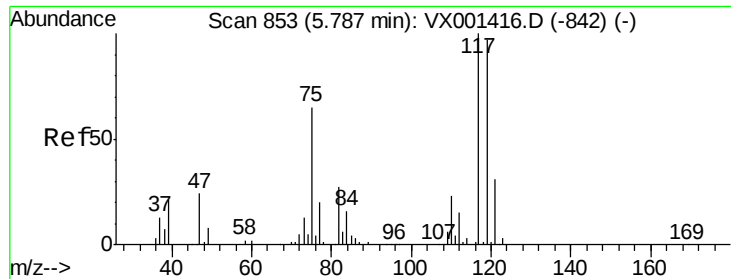


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.77 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

Instrument :

MSVOA_X

ClientSampleId :

FMS-SOIL-1

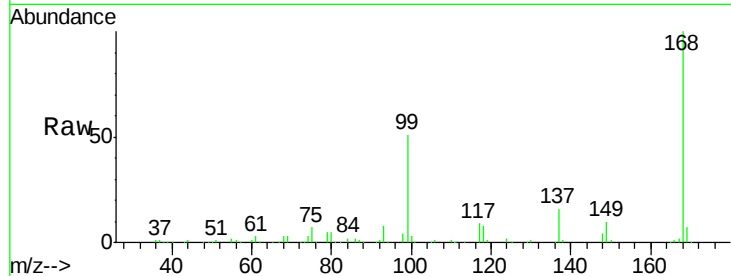
Tgt Ion:117 Resp: 20300

Ion Ratio Lower Upper

117 100

119 5.5 77.0 115.6#

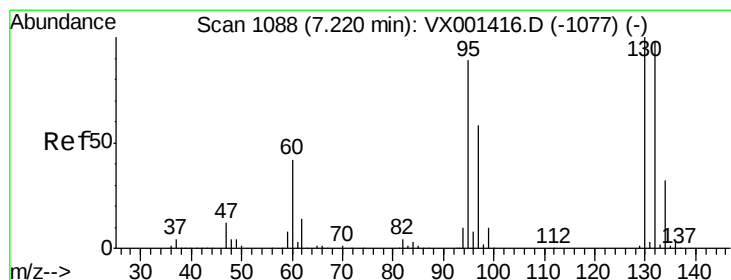
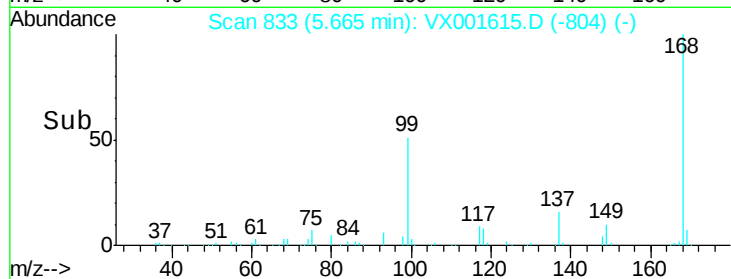
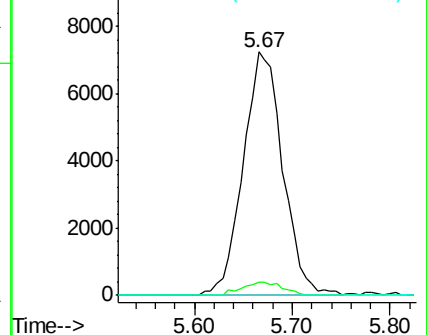
121 0.0 25.1 37.7#



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



#44

Trichloroethene

Concen: 0.38 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.01 min

Lab File: VX001615.D

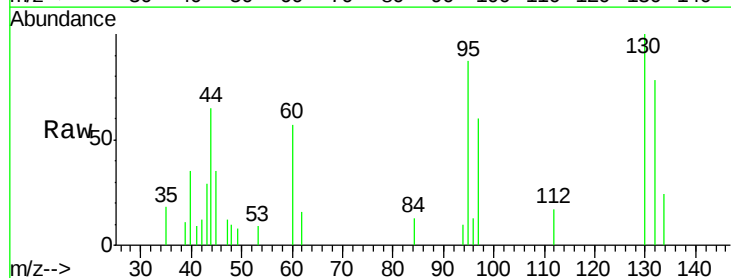
Acq: 10 May 2018 21:15

Tgt Ion:130 Resp: 1357

Ion Ratio Lower Upper

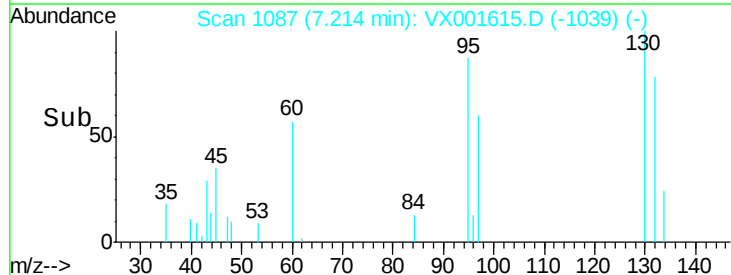
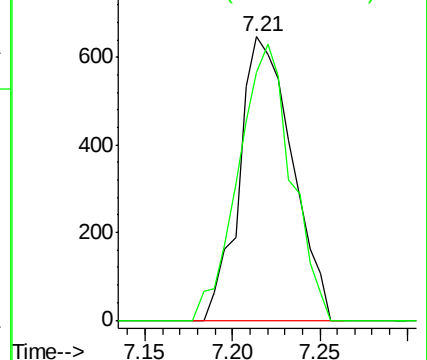
130 100

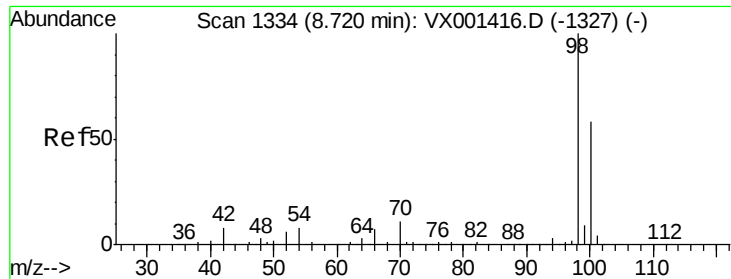
95 87.3 0.0 178.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 42.04 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

Instrument :

MSVOA_X

ClientSampleId :

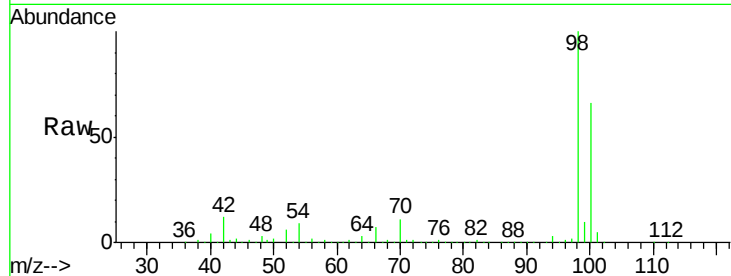
FMS-SOIL-1

Tgt Ion: 98 Resp: 428138

Ion Ratio Lower Upper

98 100

100 66.0 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

300000

250000

200000

150000

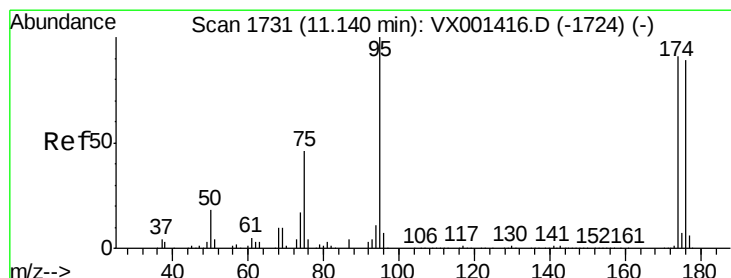
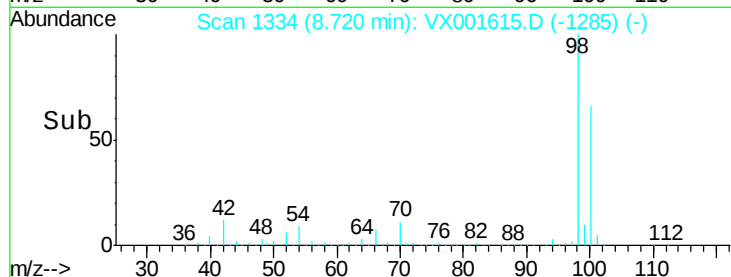
100000

50000

0

8.60 8.70 8.80 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: 34.59 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.01 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

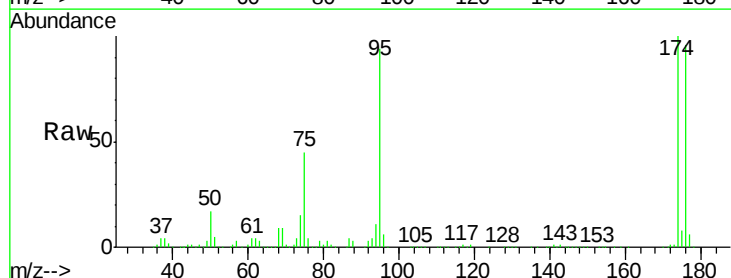
Tgt Ion: 95 Resp: 135211

Ion Ratio Lower Upper

95 100

174 101.0 0.0 202.0

176 97.7 0.0 197.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

150000

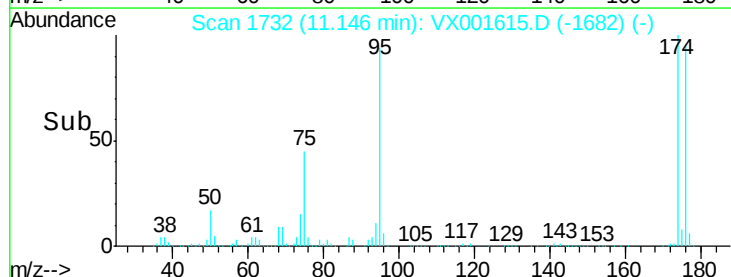
100000

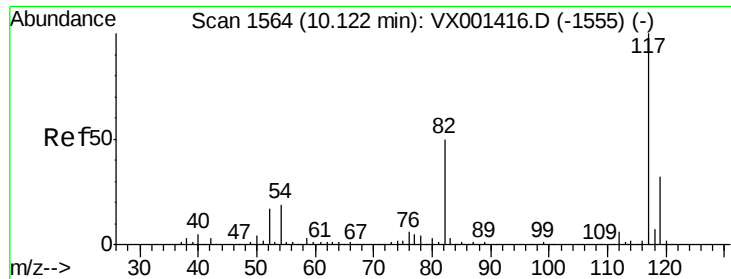
50000

0

11.10 11.20

Time-->

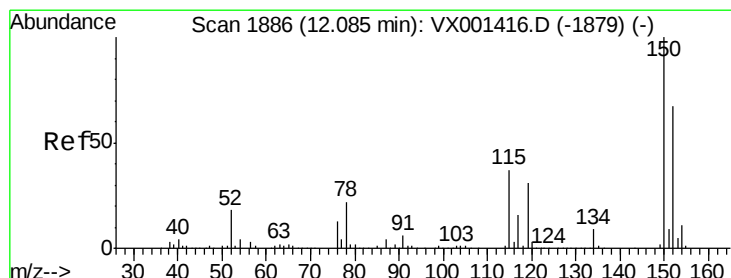
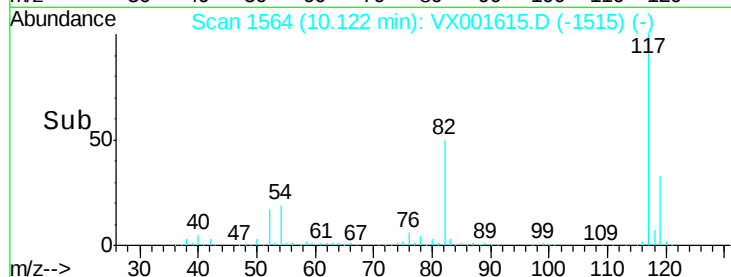
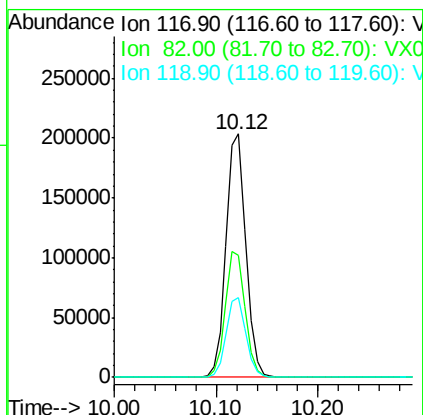
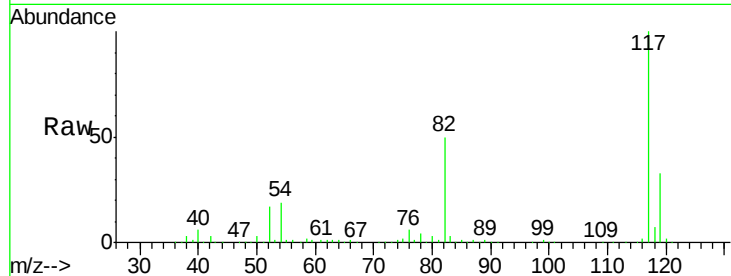




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX001615.D
Acq: 10 May 2018 21:15

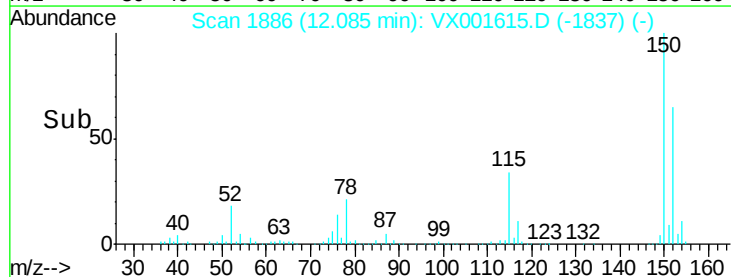
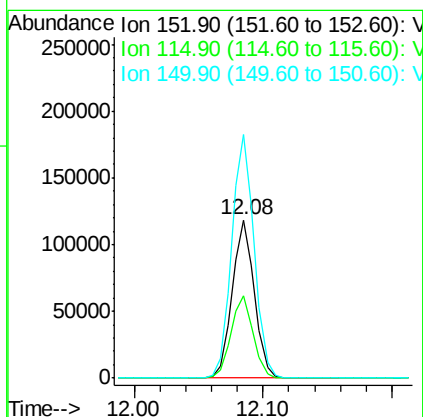
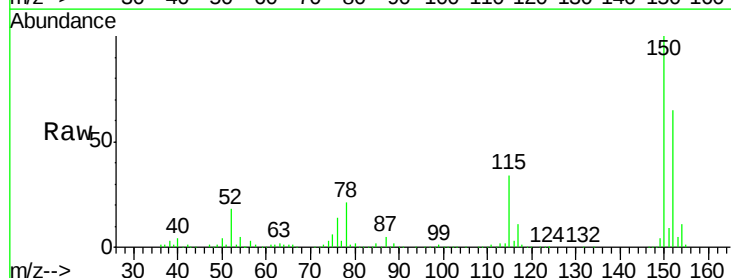
Instrument :
MSVOA_X
ClientSampled :
FMS-SOIL-1

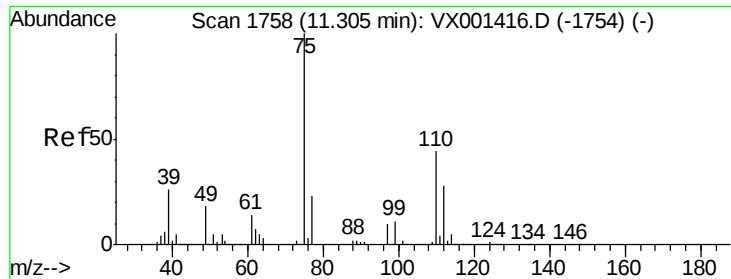
Tgt Ion:117 Resp: 272725
Ion Ratio Lower Upper
117 100
82 49.9 40.0 60.0
119 32.8 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX001615.D
Acq: 10 May 2018 21:15

Tgt Ion:152 Resp: 141927
Ion Ratio Lower Upper
152 100
115 52.4 37.7 113.1
150 156.1 0.0 349.4





#76

1,2,3-Trichloropropane

Concen: 23.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

Instrument :

MSVOA_X

ClientSampleId :

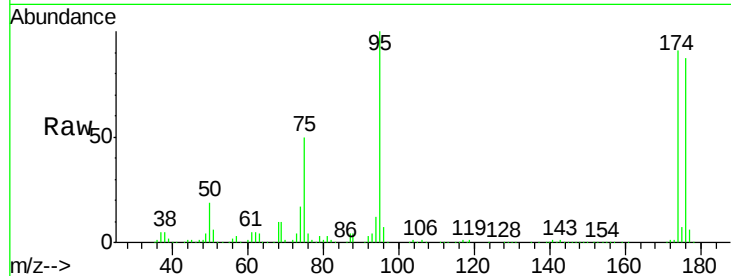
FMS-SOIL-1

Tgt Ion: 75 Resp: 67129

Ion Ratio Lower Upper

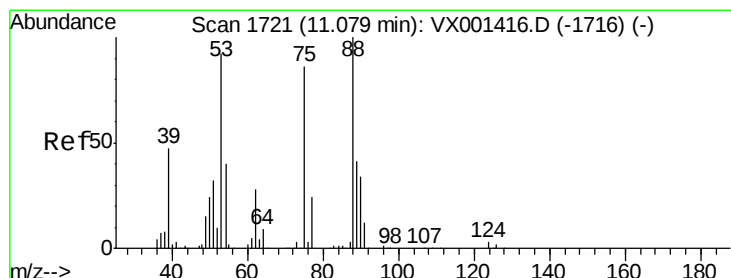
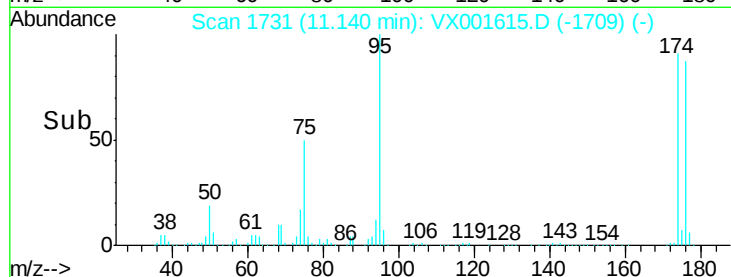
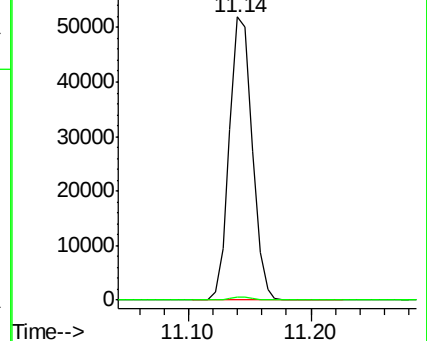
75 100

77 1.2 19.6 58.7#



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: 72.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001615.D

Acq: 10 May 2018 21:15

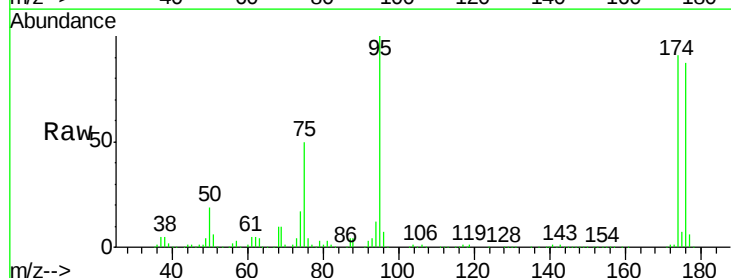
Tgt Ion: 75 Resp: 67129

Ion Ratio Lower Upper

75 100

53 0.1 84.5 126.7#

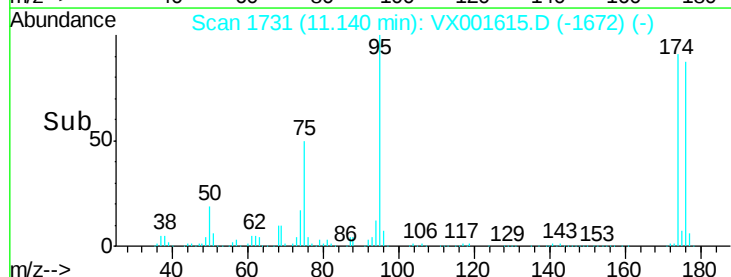
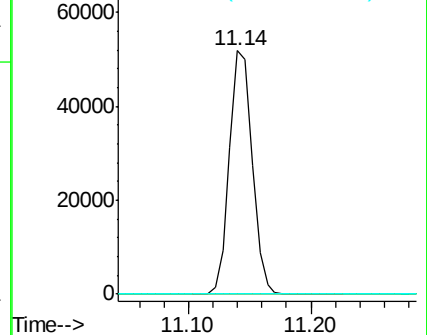
89 0.0 39.5 59.3#

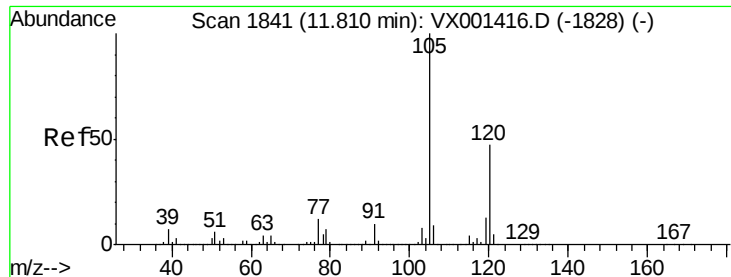


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

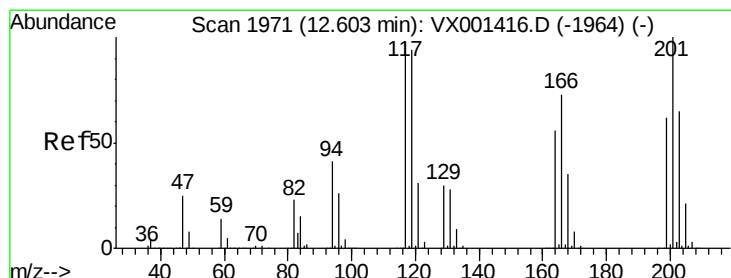
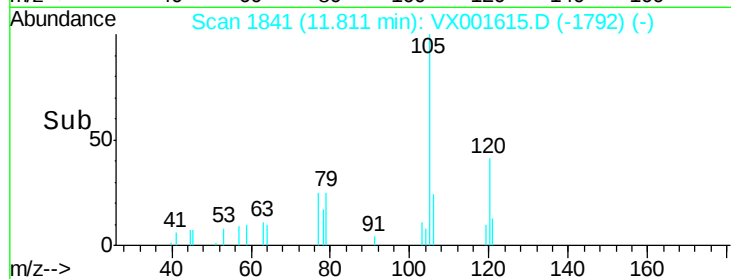
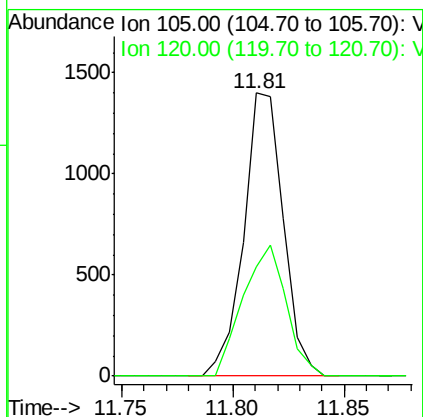
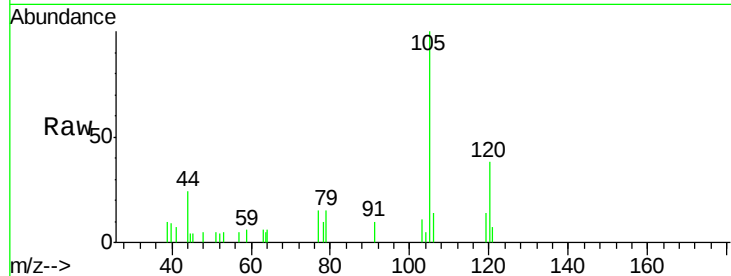




#84
 1,2,4-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX001615.D
 Acq: 10 May 2018 21:15

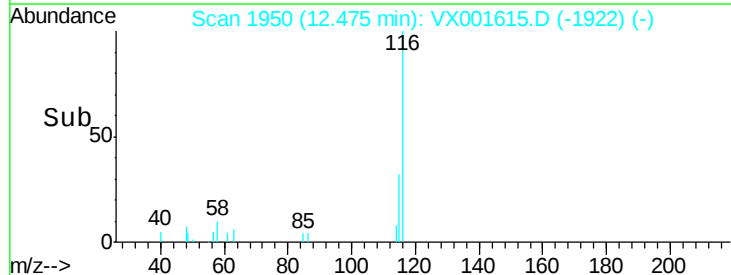
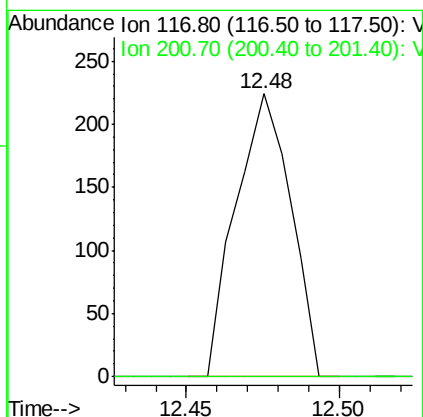
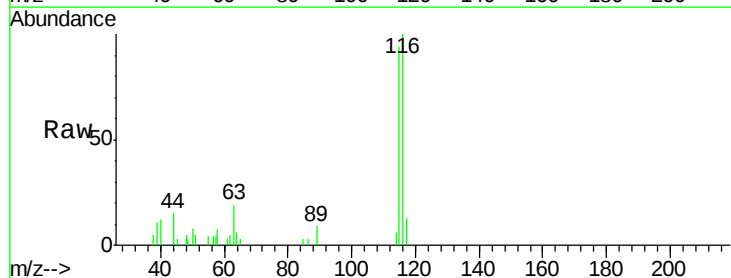
Instrument :
 MSVOA_X
 ClientSampleId :
 FMS-SOIL-1

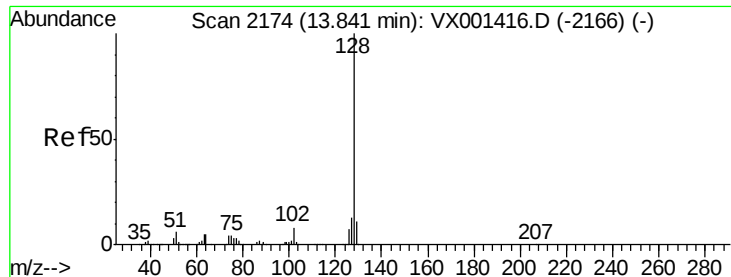
Tgt Ion:105 Resp: 1742
 Ion Ratio Lower Upper
 105 100
 120 50.5 23.4 70.2



#90
 Hexachloroethane
 Concen: 0.21 ug/l
 RT: 12.48 min Scan# 1950
 Delta R.T. -0.13 min
 Lab File: VX001615.D
 Acq: 10 May 2018 21:15

Tgt Ion:117 Resp: 279
 Ion Ratio Lower Upper
 117 100
 201 0.0 51.5 154.5#

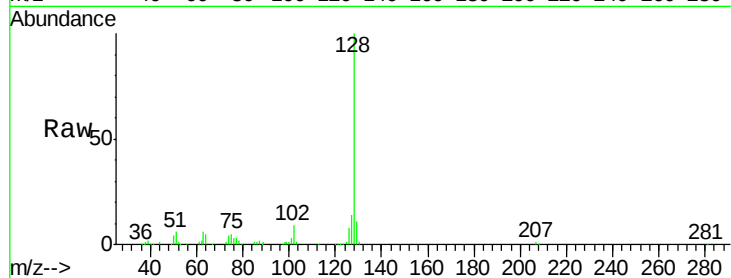




#95
Naphthalene
Concen: 4.93 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX001615.D
Acq: 10 May 2018 21:15

Instrument :
MSVOA_X
ClientSampleId :
FMS-SOIL-1

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.6	8.7	13.1



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

