

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX050718\
 Data File : VX001489.D
 Acq On : 08 May 2018 02:27
 Operator : JC/MD
 Sample : J2754-04 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LS-SOIL-PILE-1A

Quant Time: May 08 06:15:41 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	248209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	340640	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	303362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	169166	50.00	ug/l	0.00

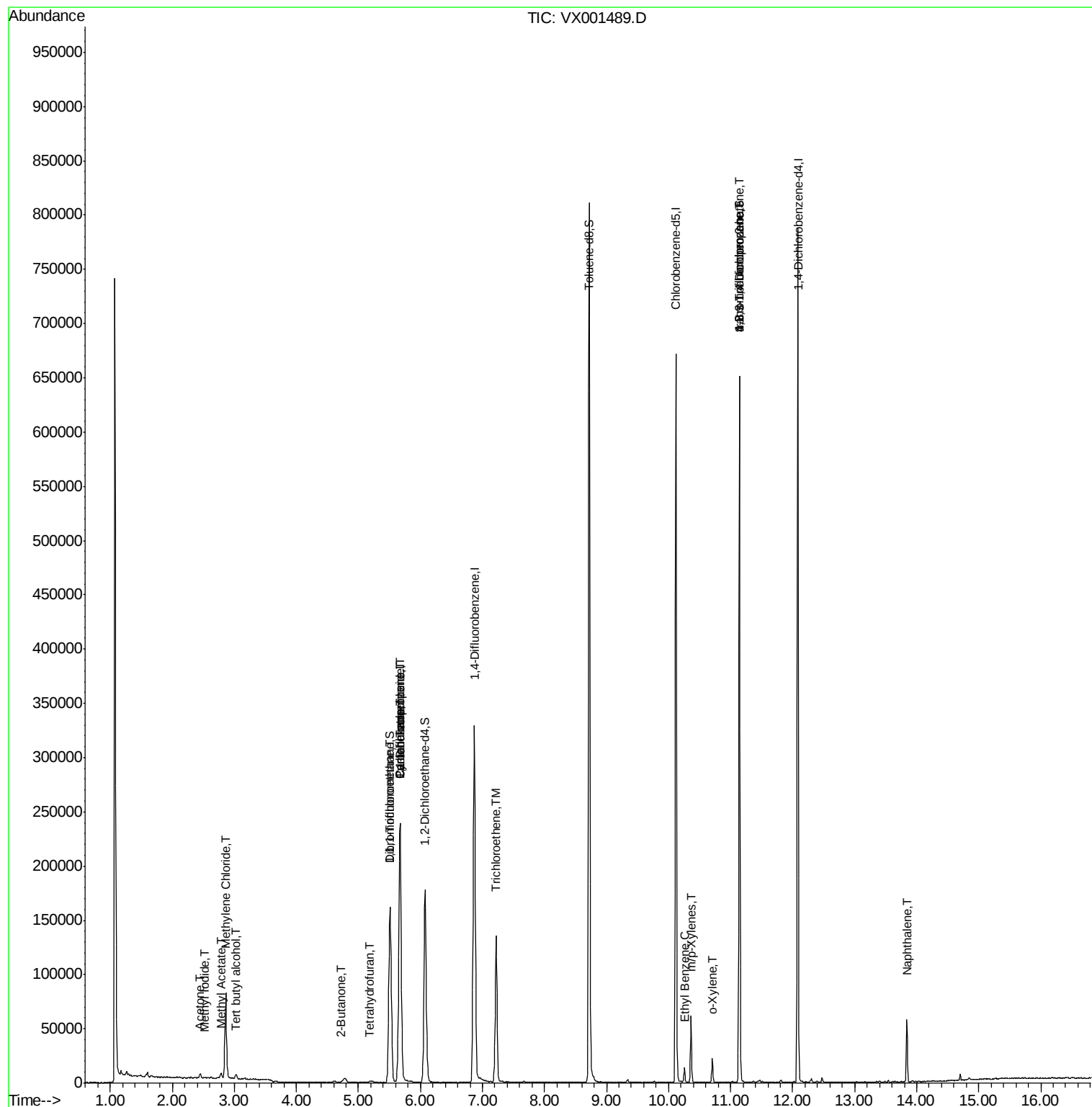
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	168290	47.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.34%	
35) Dibromofluoromethane	5.51	113	129747	42.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.64%	
50) Toluene-d8	8.72	98	472294	42.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.40%	
62) 4-Bromofluorobenzene	11.14	95	156568	36.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1095	Below Cal	#	74
10) Methyl Iodide	2.52	142	937	0.22	ug/l	# 92
11) Tert butyl alcohol	3.02	59	2236	2.97	ug/l	# 76
13) Acrolein	2.31	56	53	Below Cal	#	61
16) Acetone	2.45	43	4836	2.99	ug/l	91
18) Methyl Acetate	2.78	43	5464	1.28	ug/l	94
20) Methylene Chloride	2.86	84	36985	11.53	ug/l	99
25) 2-Butanone	4.71	43	847	0.36	ug/l	# 49
29) Tetrahydrofuran	5.18	42	894	0.60	ug/l	# 76
31) Cyclohexane	5.68	56	4384	0.96	ug/l	# 1
32) 1,1,1-Trichloroethane	5.50	97	3101	0.64	ug/l	# 48
36) 1,1-Dichloropropene	5.67	75	15561	3.59	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	21294	4.61	ug/l	# 16
44) Trichloroethene	7.22	130	53299	13.78	ug/l	98
67) Ethyl Benzene	10.26	91	7771	0.53	ug/l	99
68) m/p-Xylenes	10.36	106	13689	2.38	ug/l	97
69) o-Xylene	10.70	106	4642	0.83	ug/l	87
76) 1,2,3-Trichloropropane	11.14	75	79101	23.06	ug/l	# 38
81) trans-1,4-Dichloro-2-buten	11.14	75	79101	71.49	ug/l	# 7
95) Naphthalene	13.84	128	35672	2.85	ug/l	99

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

Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-PILE-1A

Quant Time: May 08 06:15:41 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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

Instrument :

MSVOA_X

ClientSampleId :

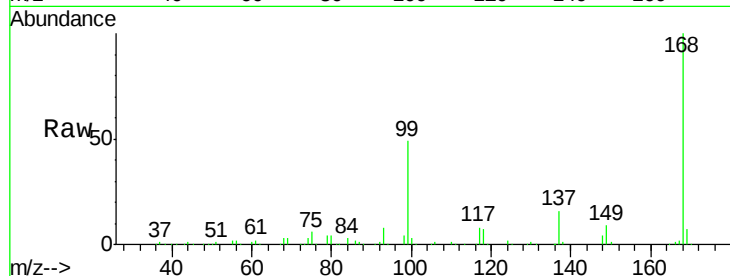
LS-SOIL-PILE-1A

Tgt Ion:168 Resp: 248209

Ion Ratio Lower Upper

168 100

99 48.4 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

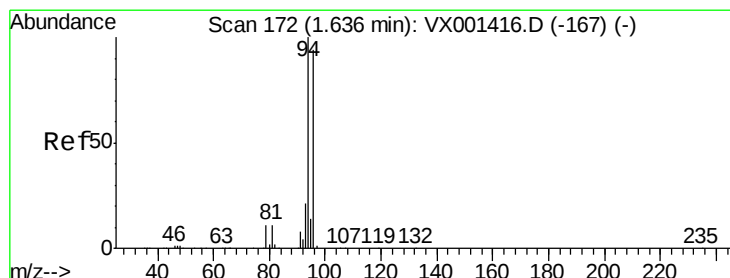
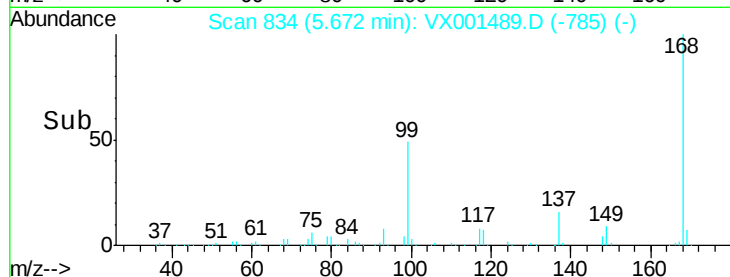
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001489.D

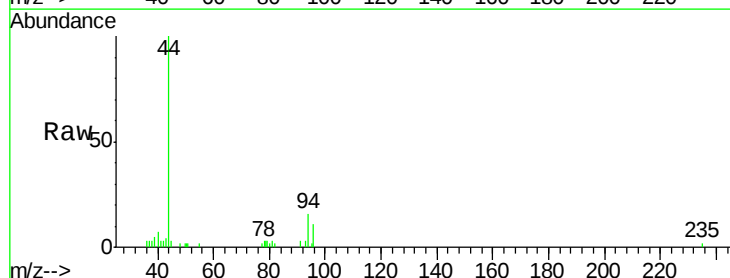
Acq: 08 May 2018 02:27

Tgt Ion: 94 Resp: 1095

Ion Ratio Lower Upper

94 100

96 68.6 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

600

500

400

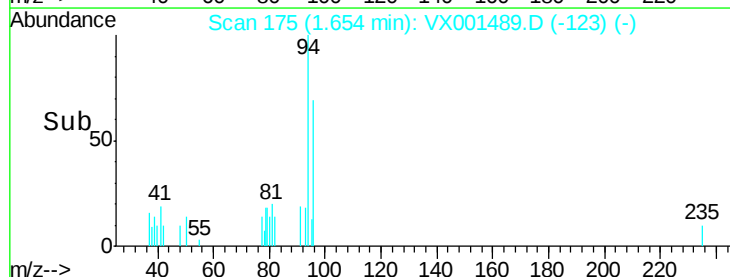
300

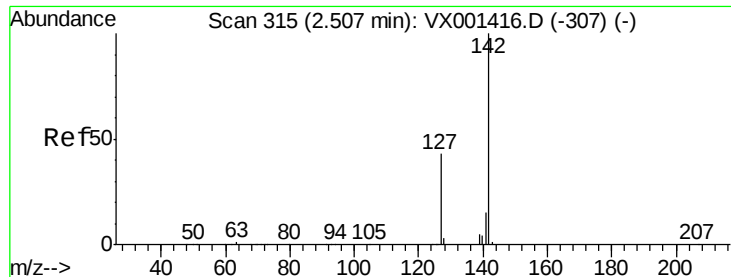
200

100

0

Time--> 1.60 1.65 1.70 1.75

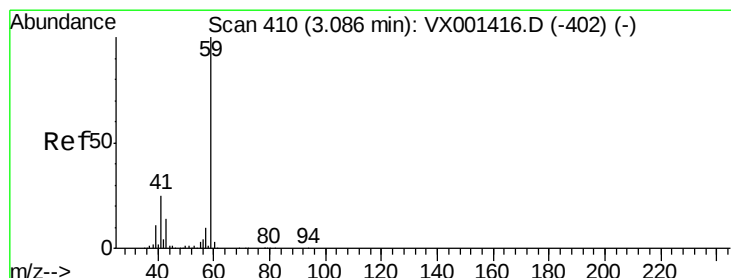
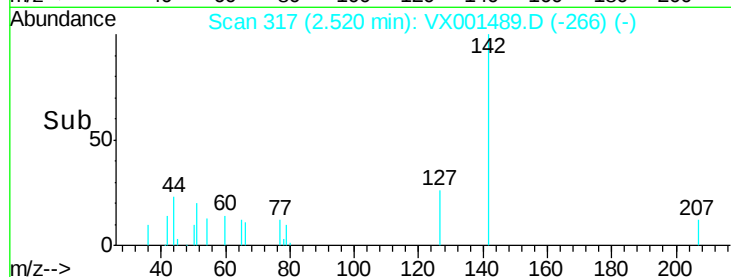
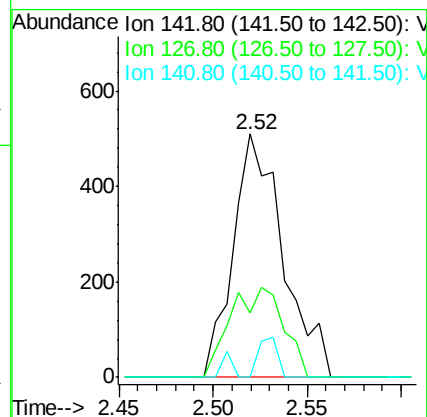
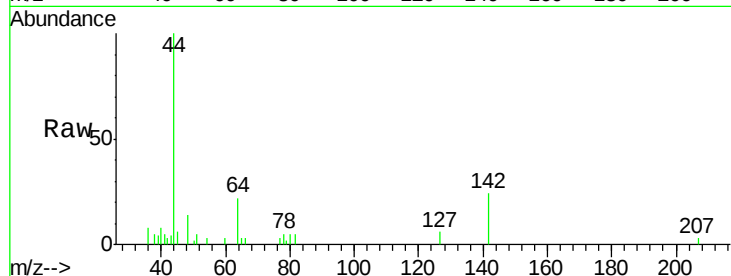




#10
Methyl Iodide
Concen: 0.22 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX001489.D
Acq: 08 May 2018 02:27

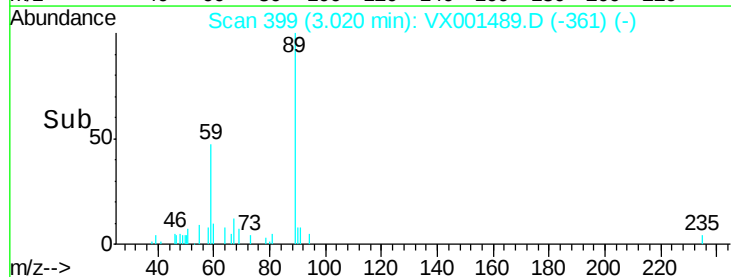
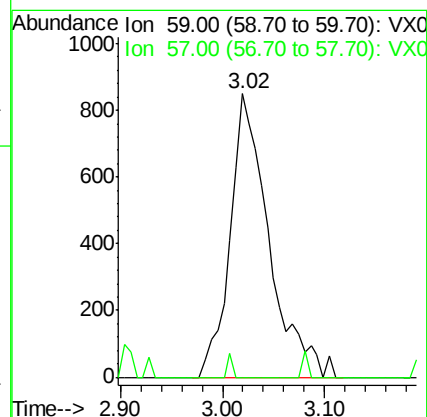
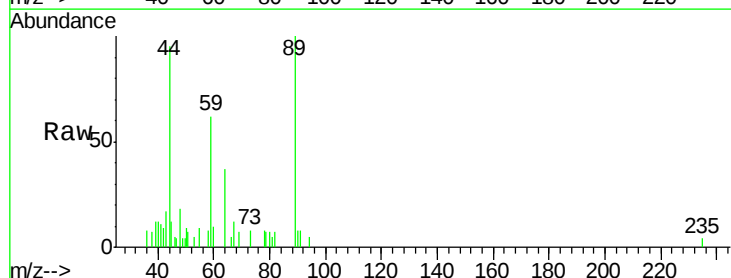
Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-PILE-1A

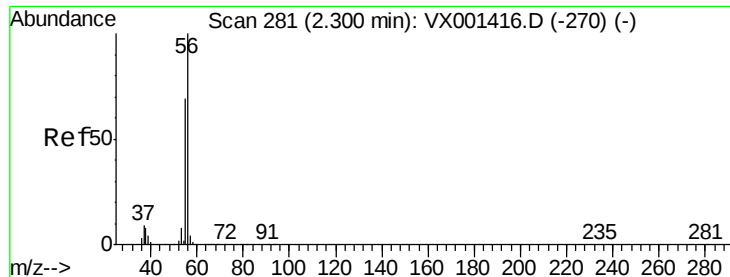
Tgt Ion:142 Resp: 937
Ion Ratio Lower Upper
142 100
127 39.4 33.6 50.4
141 6.3 11.4 17.2#



#11
Tert butyl alcohol
Concen: 2.97 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.07 min
Lab File: VX001489.D
Acq: 08 May 2018 02:27

Tgt Ion: 59 Resp: 2236
Ion Ratio Lower Upper
59 100
57 1.2 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

Instrument :

MSVOA_X

ClientSampleId :

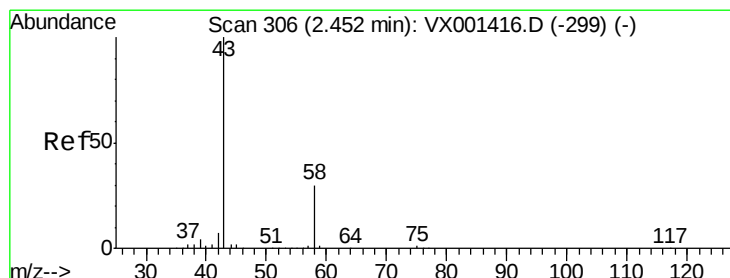
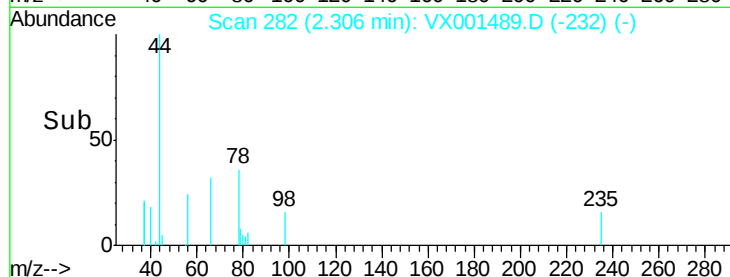
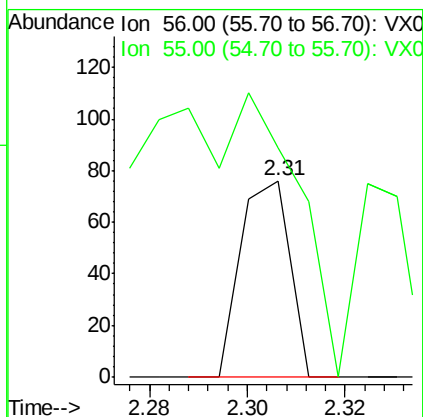
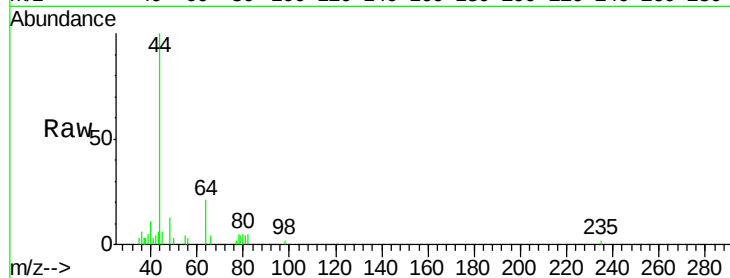
LS-SOIL-PILE-1A

Tgt Ion: 56 Resp: 53

Ion Ratio Lower Upper

56 100

55 100.0 54.5 81.7#



#16

Acetone

Concen: 2.99 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001489.D

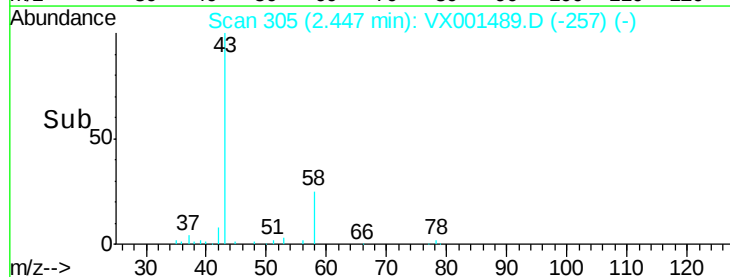
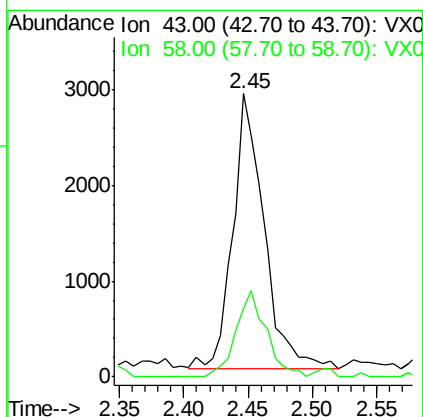
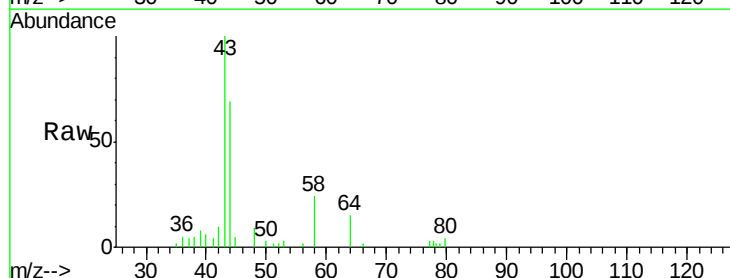
Acq: 08 May 2018 02:27

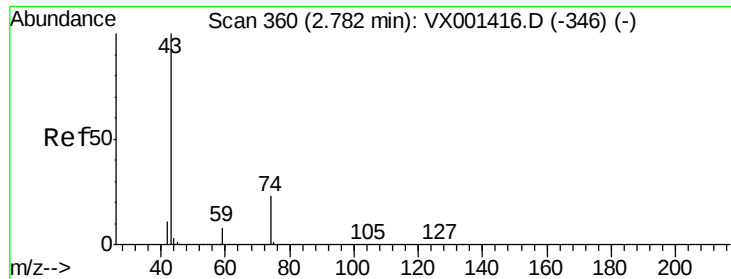
Tgt Ion: 43 Resp: 4836

Ion Ratio Lower Upper

43 100

58 24.9 23.8 35.8

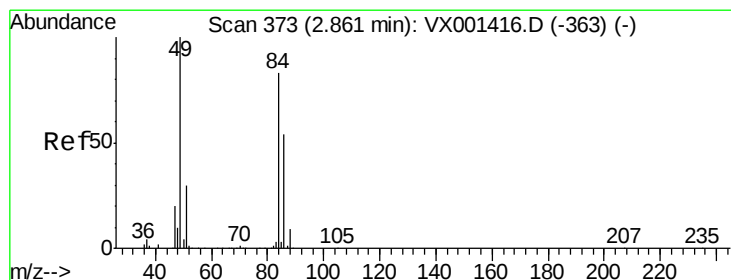
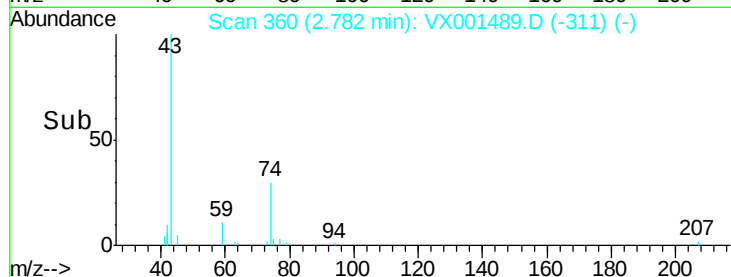
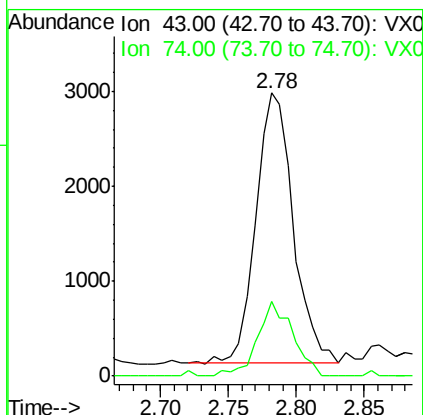
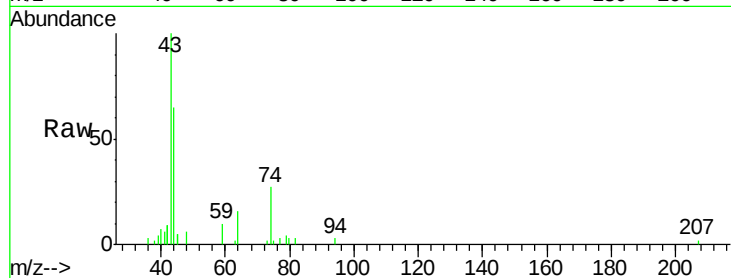




#18
Methyl Acetate
Concen: 1.28 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX001489.D
Acq: 08 May 2018 02:27

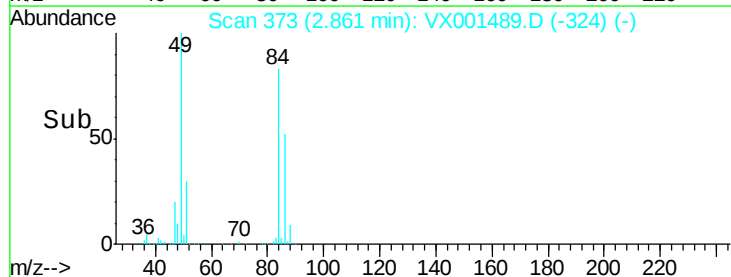
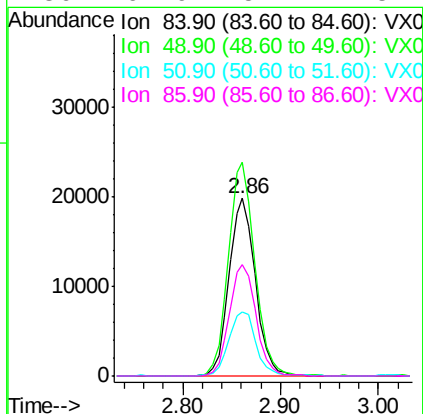
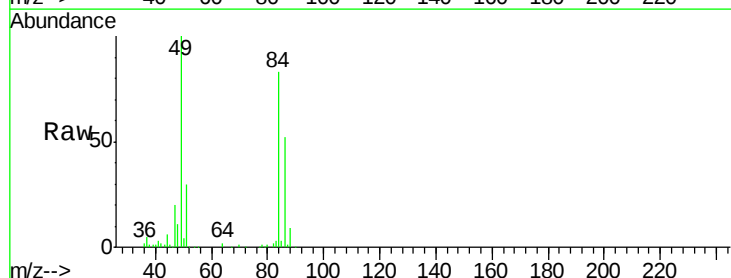
Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-PILE-1A

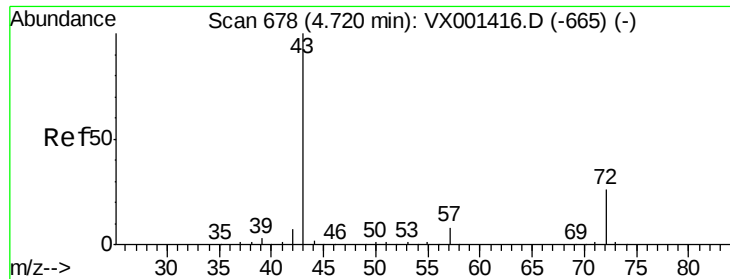
Tgt Ion: 43 Resp: 5464
Ion Ratio Lower Upper
43 100
74 26.3 18.6 27.8



#20
Methylene Chloride
Concen: 11.53 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX001489.D
Acq: 08 May 2018 02:27

Tgt Ion: 84 Resp: 36985
Ion Ratio Lower Upper
84 100
49 120.0 96.6 144.8
51 36.1 29.0 43.4
86 62.9 52.2 78.4





#25

2-Butanone

Concen: 0.36 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

Instrument :

MSVOA_X

ClientSampleId :

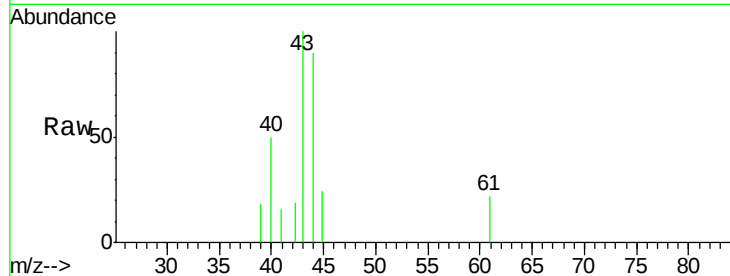
LS-SOIL-PILE-1A

Tgt Ion: 43 Resp: 847

Ion Ratio Lower Upper

43 100

72 0.0 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.71

300

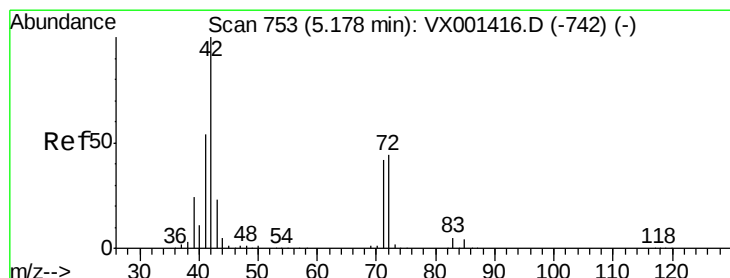
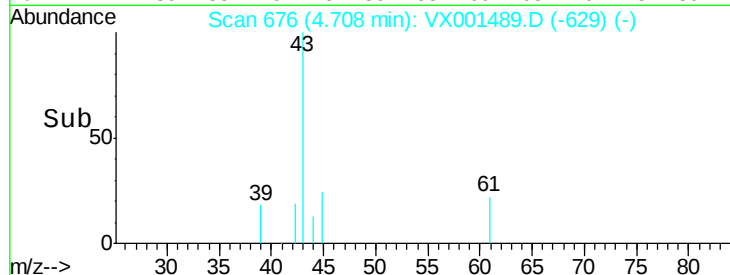
200

100

0

Time-->

4.65 4.70 4.75



#29

Tetrahydrofuran

Concen: 0.60 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

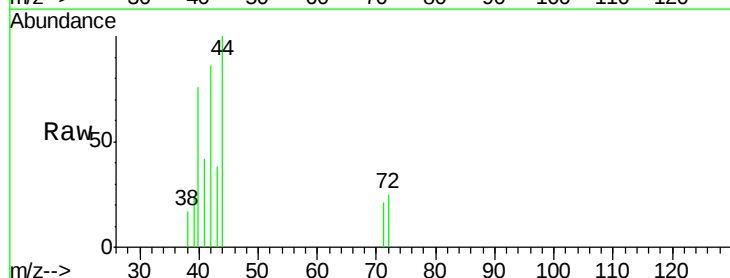
Tgt Ion: 42 Resp: 894

Ion Ratio Lower Upper

42 100

72 34.2 35.4 53.2#

71 20.0 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

5.18

300

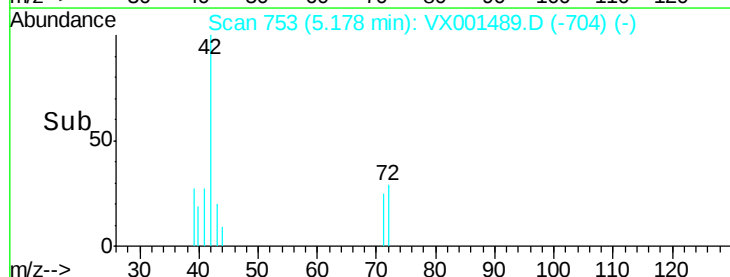
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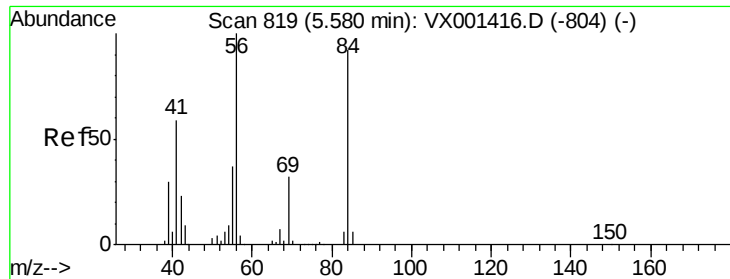
100

0

Time-->

5.10 5.15 5.20 5.25 5.30

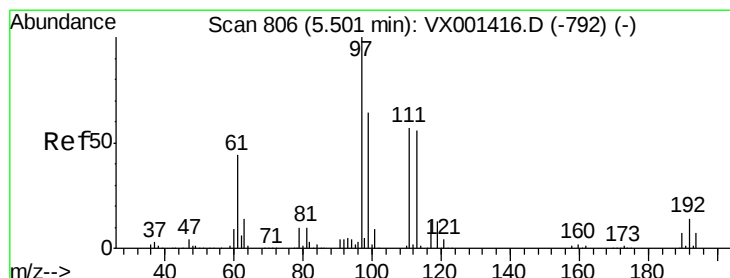
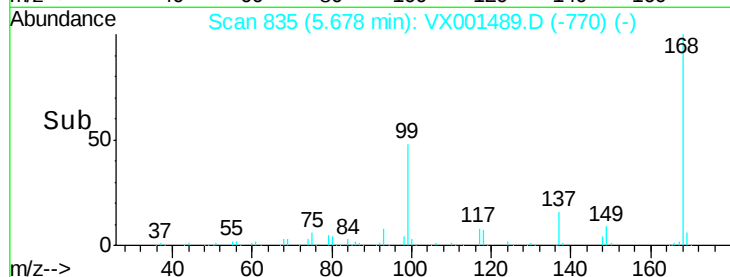
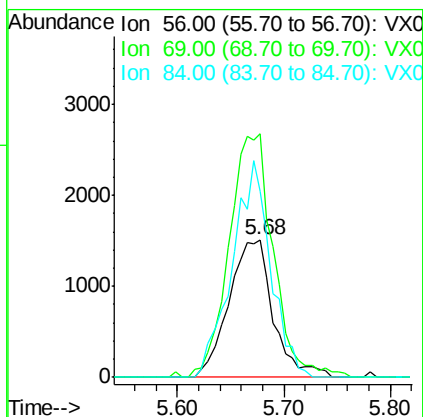
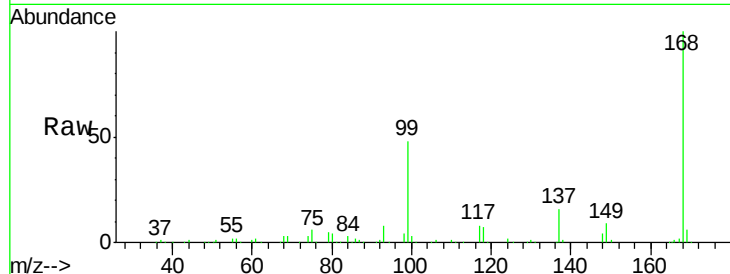




#31
Cyclohexane
Concen: 0.96 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.10 min
Lab File: VX001489.D
Acq: 08 May 2018 02:27

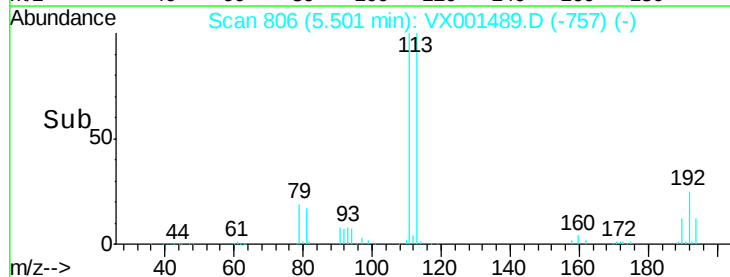
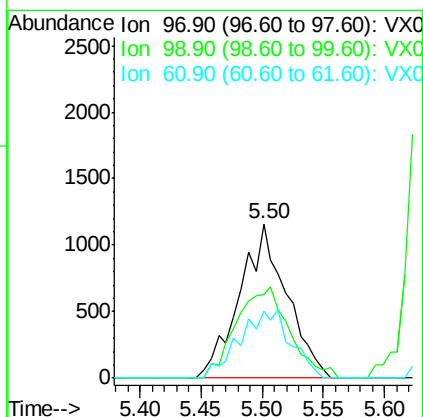
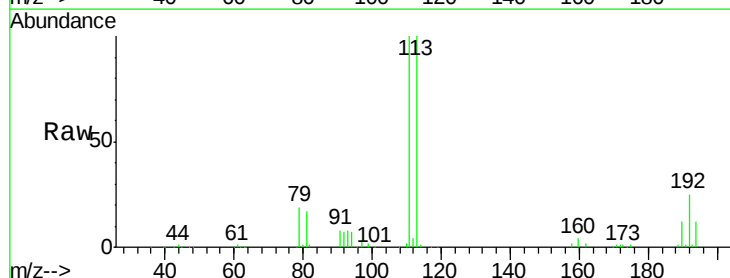
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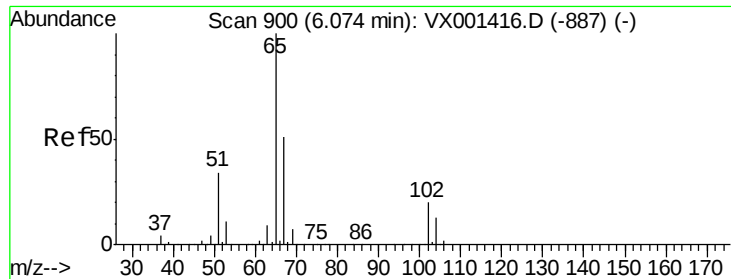
Tgt Ion: 56 Resp: 4384
Ion Ratio Lower Upper
56 100
69 177.0 25.4 38.0#
84 135.5 73.8 110.8#



#32
1,1,1-Trichloroethane
Concen: 0.64 ug/l
RT: 5.50 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX001489.D
Acq: 08 May 2018 02:27

Tgt Ion: 97 Resp: 3101
Ion Ratio Lower Upper
97 100
99 0.0 51.3 76.9#
61 47.9 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 47.17 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

Instrument :

MSVOA_X

ClientSampleId :

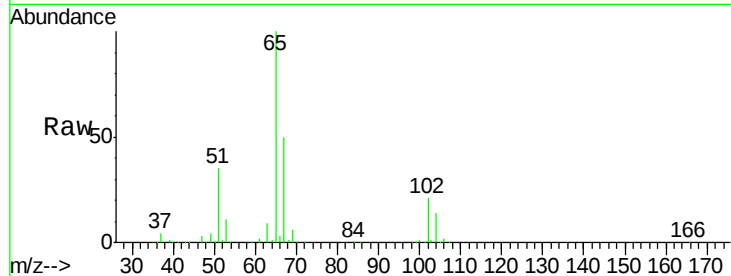
LS-SOIL-PILE-1A

Tgt Ion: 65 Resp: 168290

Ion Ratio Lower Upper

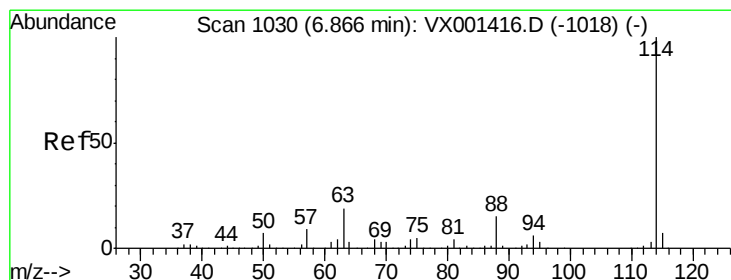
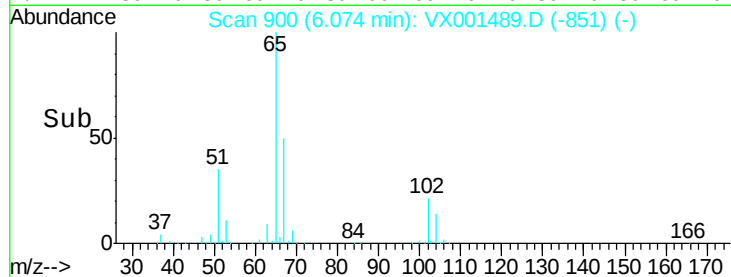
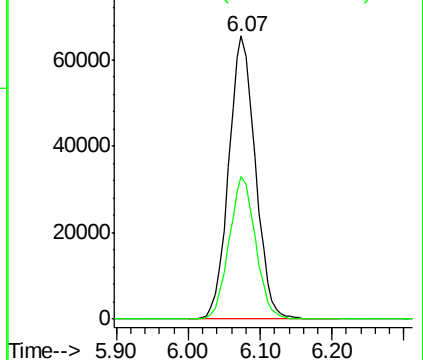
65 100

67 50.1 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: VX001489.D

Acq: 08 May 2018 02:27

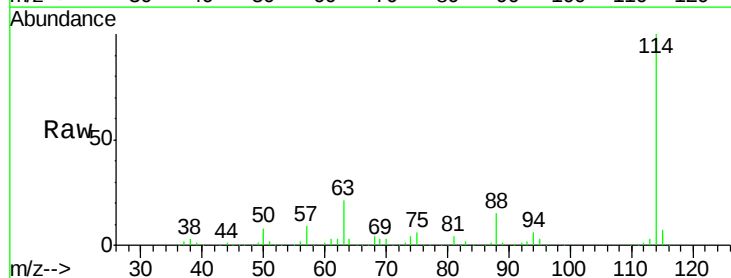
Tgt Ion: 114 Resp: 340640

Ion Ratio Lower Upper

114 100

63 20.5 0.0 38.6

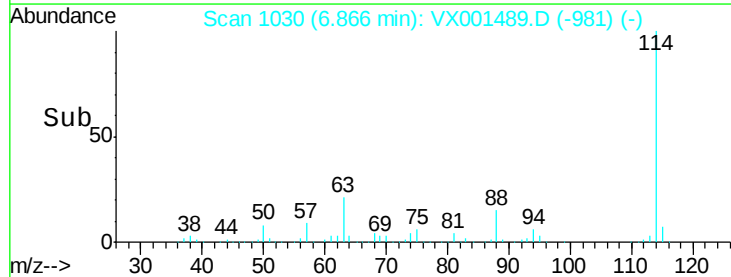
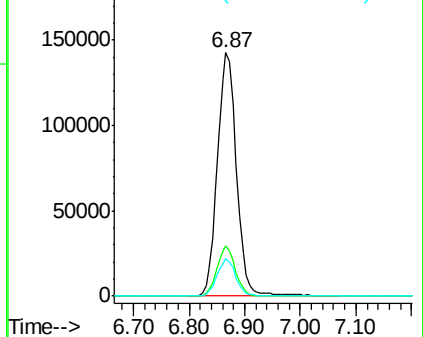
88 15.3 0.0 30.8

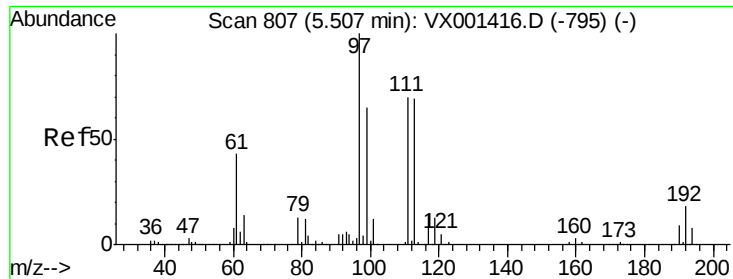


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

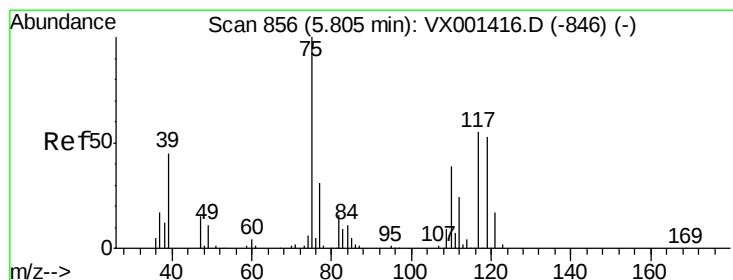
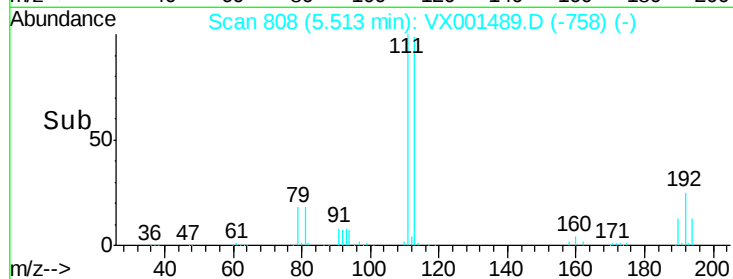
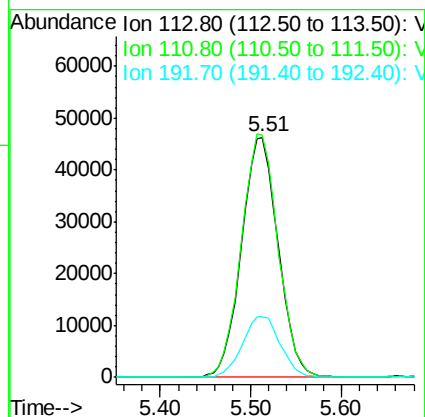
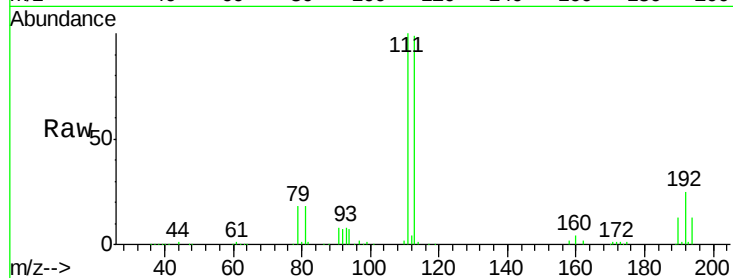




#35
 Dibromofluoromethane
 Concen: 42.82 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX001489.D
 Acq: 08 May 2018 02:27

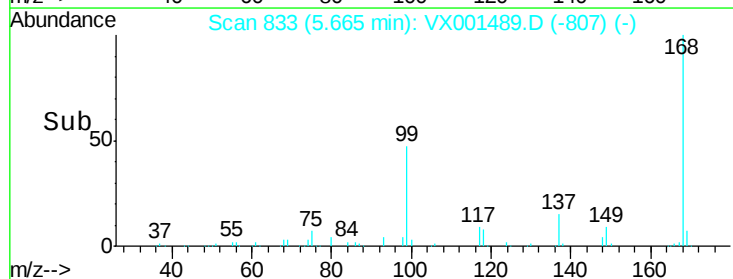
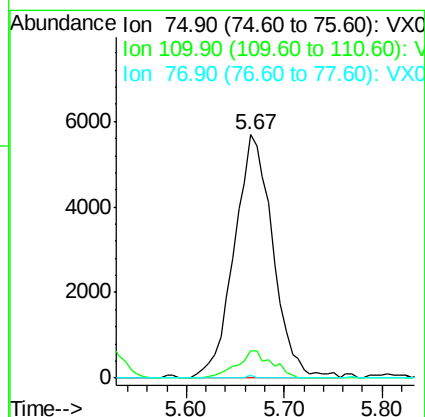
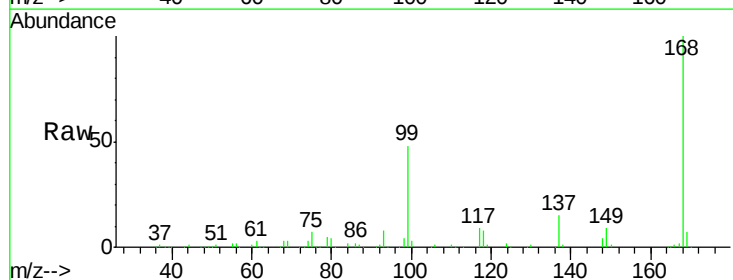
Instrument :
 MSVOA_X
 ClientSampleId :
 LS-SOIL-PILE-1A

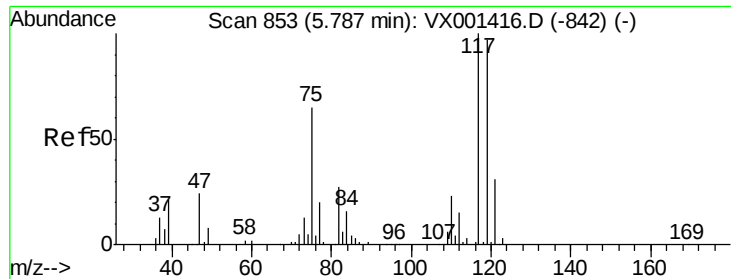
Tgt Ion:113 Resp: 129747
 Ion Ratio Lower Upper
 113 100
 111 101.5 82.2 123.2
 192 26.2 21.4 32.0



#36
 1,1-Dichloropropene
 Concen: 3.59 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX001489.D
 Acq: 08 May 2018 02:27

Tgt Ion: 75 Resp: 15561
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.9 56.7#
 77 0.2 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 4.61 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

Instrument :

MSVOA_X

ClientSampleId :

LS-SOIL-PILE-1A

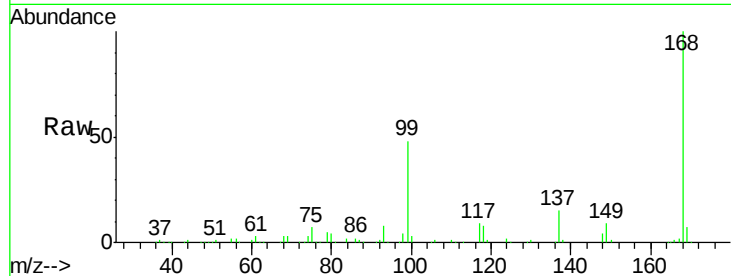
Tgt Ion:117 Resp: 21294

Ion Ratio Lower Upper

117 100

119 5.8 77.0 115.6#

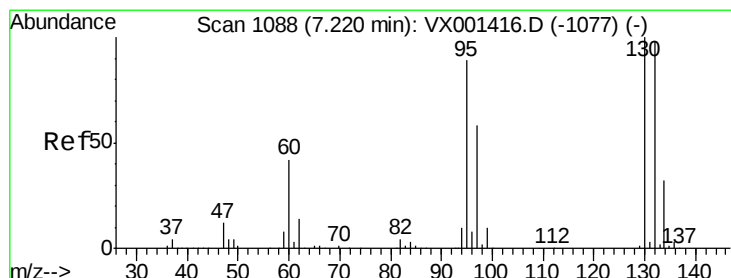
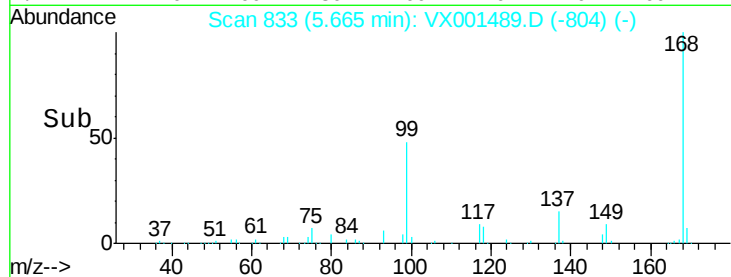
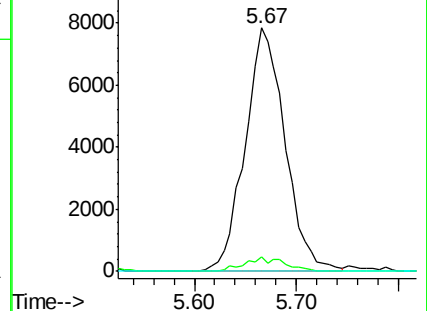
121 0.0 25.1 37.7#



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: 13.78 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX001489.D

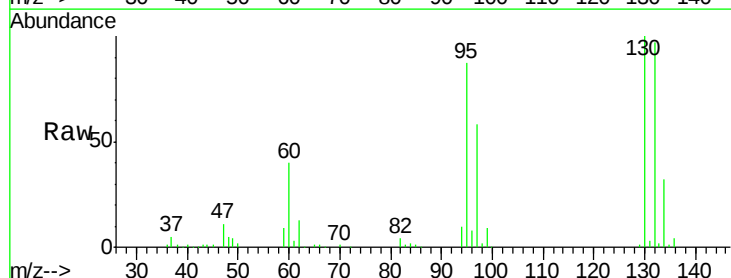
Acq: 08 May 2018 02:27

Tgt Ion:130 Resp: 53299

Ion Ratio Lower Upper

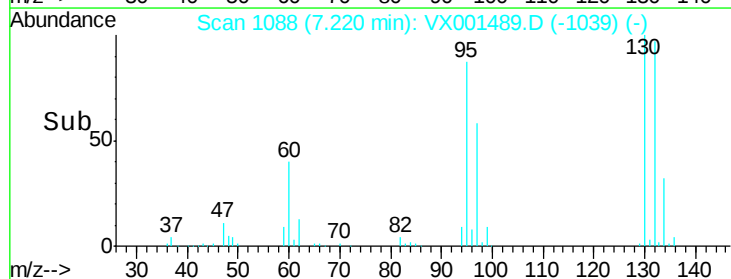
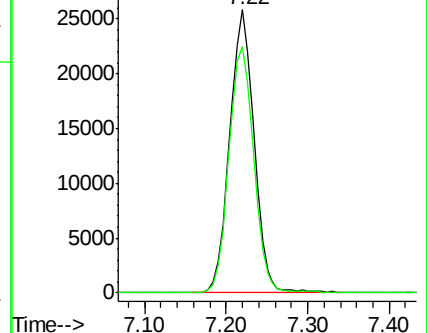
130 100

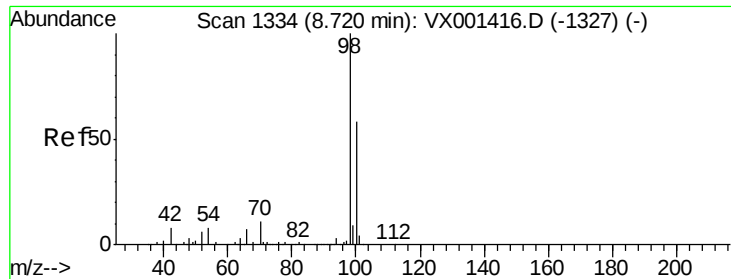
95 87.2 0.0 178.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 42.70 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

Instrument :

MSVOA_X

ClientSampleId :

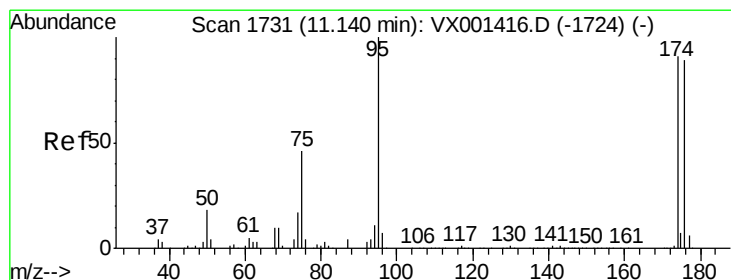
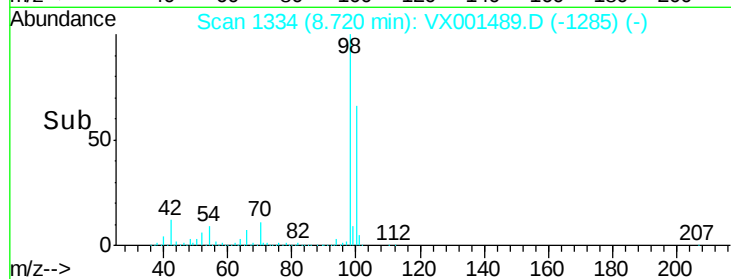
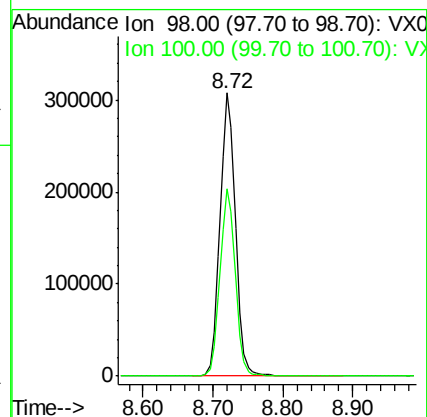
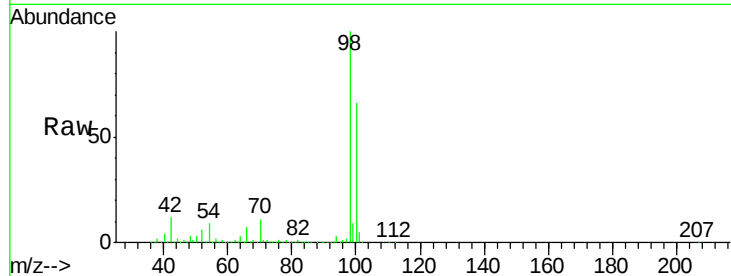
LS-SOIL-PILE-1A

Tgt Ion: 98 Resp: 472294

Ion Ratio Lower Upper

98 100

100 65.8 54.0 81.0



#62

4-Bromofluorobenzene

Concen: 36.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

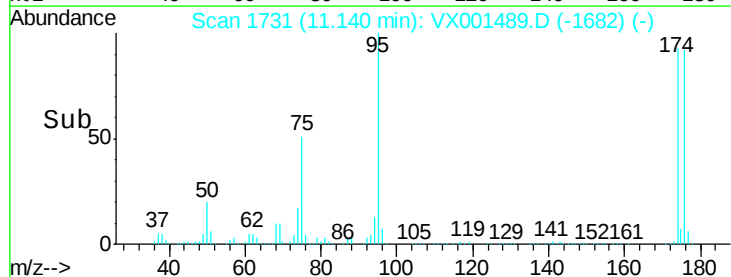
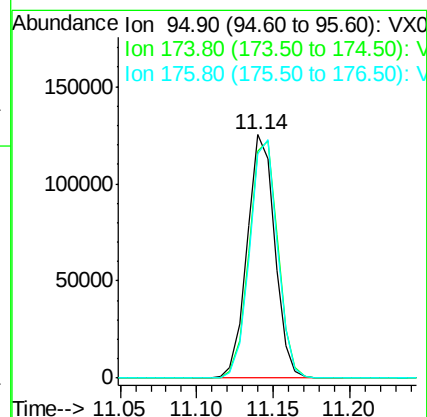
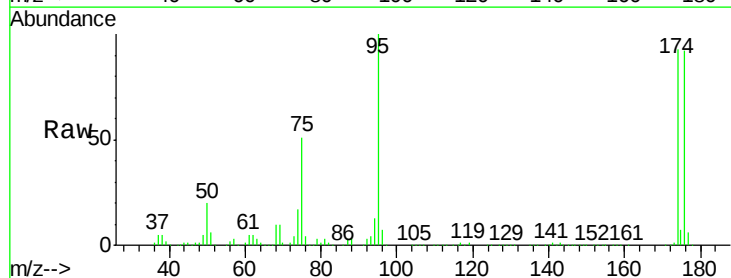
Tgt Ion: 95 Resp: 156568

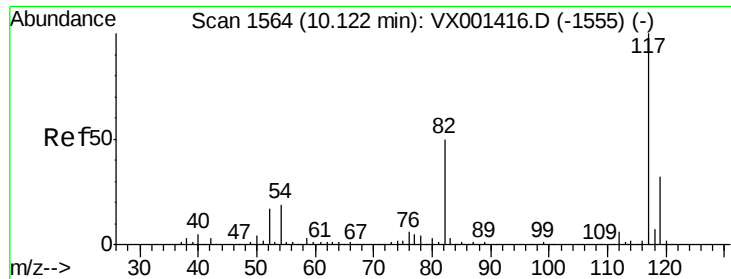
Ion Ratio Lower Upper

95 100

174 101.7 0.0 202.0

176 99.0 0.0 197.4

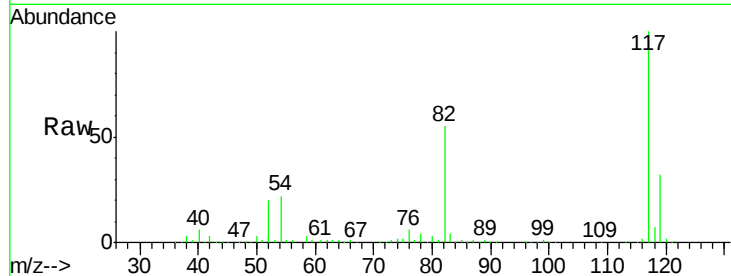




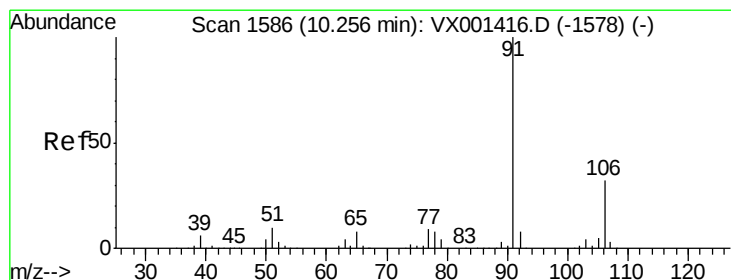
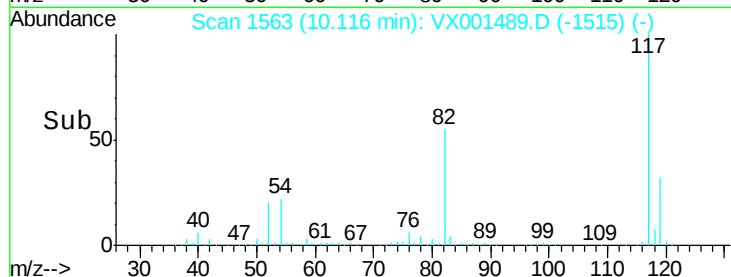
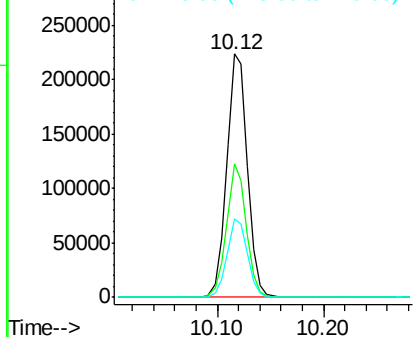
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX001489.D
Acq: 08 May 2018 02:27

Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-PILE-1A

Tgt Ion: 117 Resp: 303362
Ion Ratio Lower Upper
117 100
82 54.8 40.0 60.0
119 32.1 25.8 38.8

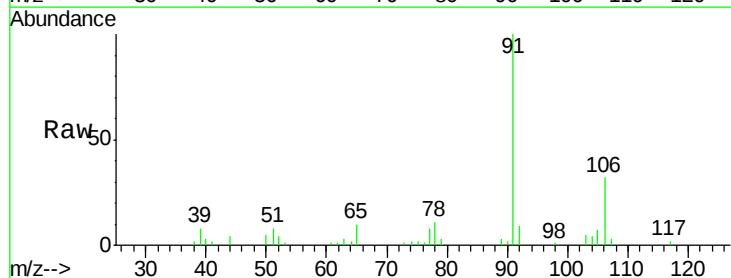


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

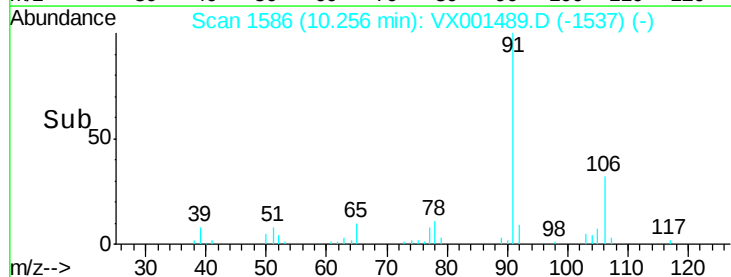
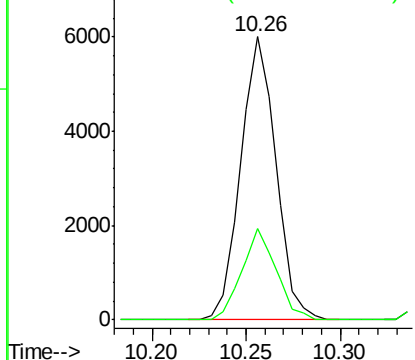


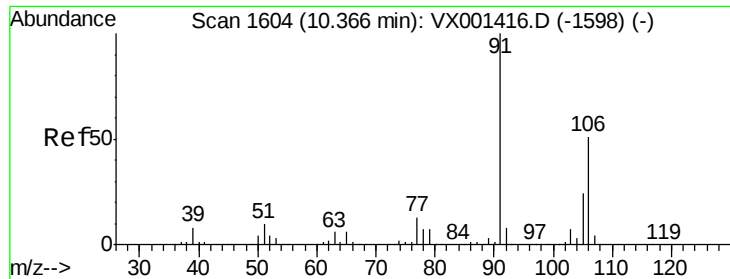
#67
Ethyl Benzene
Concen: 0.53 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX001489.D
Acq: 08 May 2018 02:27

Tgt Ion: 91 Resp: 7771
Ion Ratio Lower Upper
91 100
106 32.2 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V

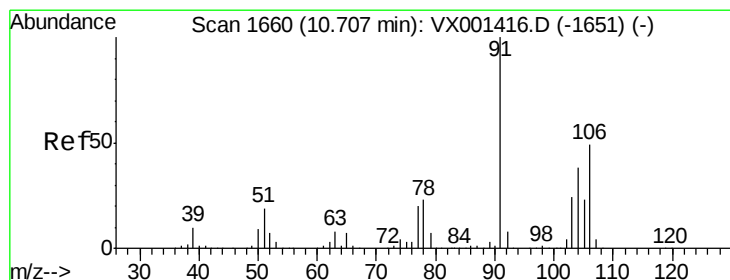
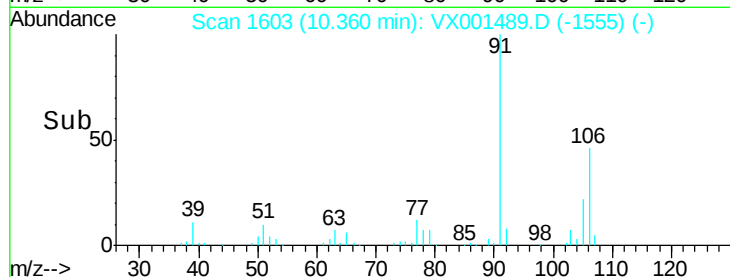
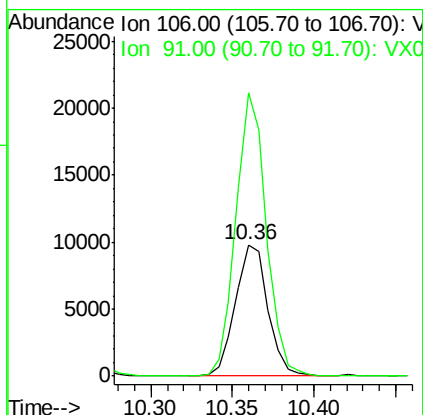
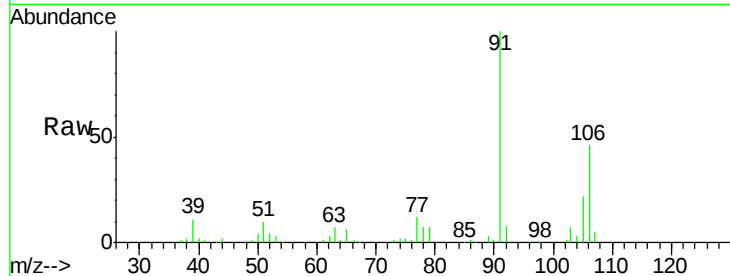




#68
m/p-Xylenes
Concen: 2.38 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX001489.D
Acq: 08 May 2018 02:27

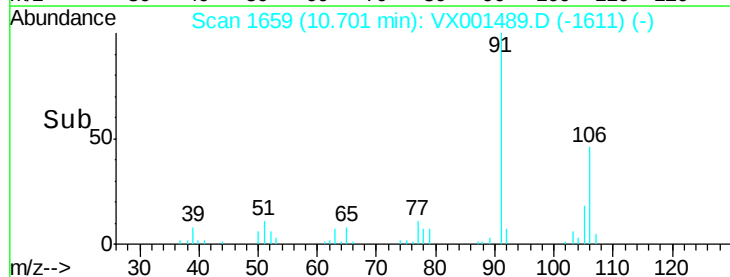
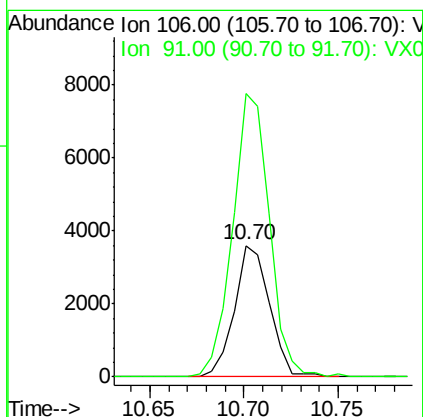
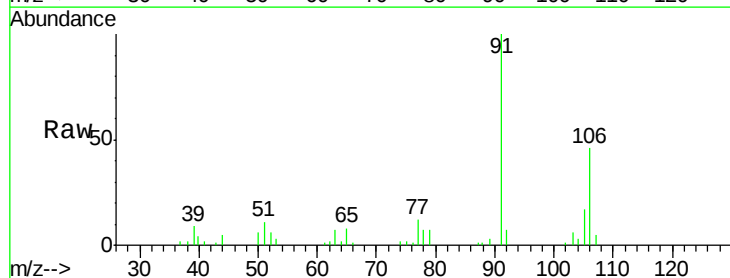
Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-PILE-1A

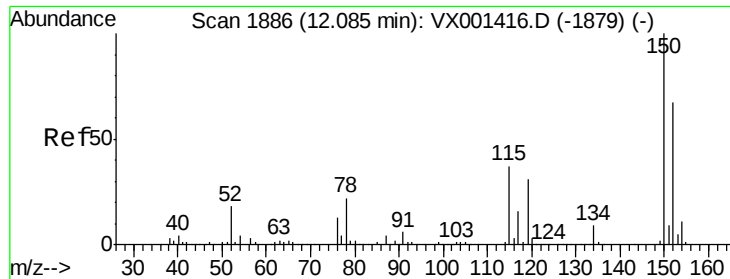
Tgt Ion:106 Resp: 13689
Ion Ratio Lower Upper
106 100
91 201.3 157.5 236.3



#69
o-Xylene
Concen: 0.83 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VX001489.D
Acq: 08 May 2018 02:27

Tgt Ion:106 Resp: 4642
Ion Ratio Lower Upper
106 100
91 225.9 103.1 309.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

Instrument :

MSVOA_X

ClientSampleId :

LS-SOIL-PILE-1A

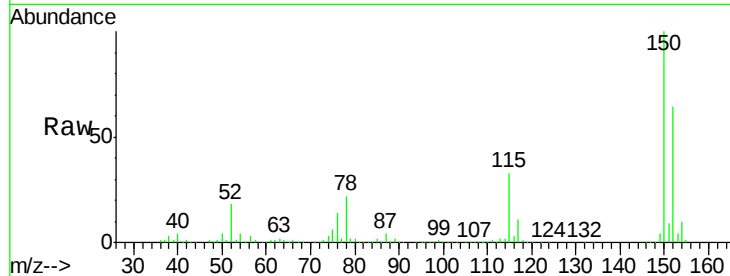
Tgt Ion:152 Resp: 169166

Ion Ratio Lower Upper

152 100

115 52.3 37.7 113.1

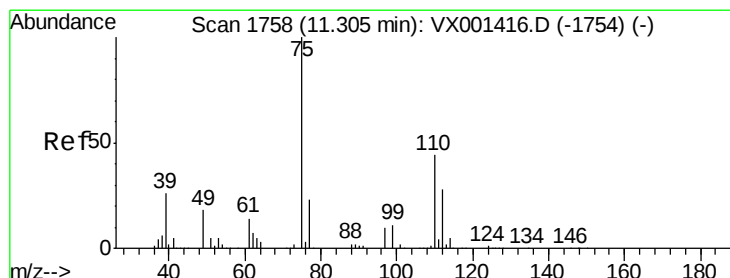
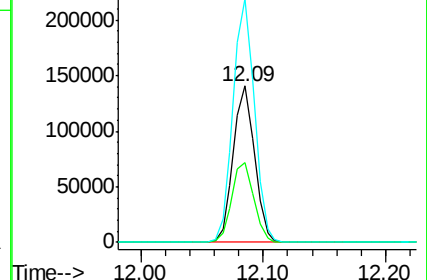
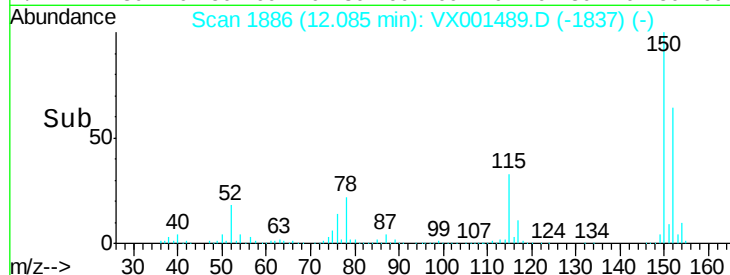
150 156.0 0.0 349.4



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: 23.06 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001489.D

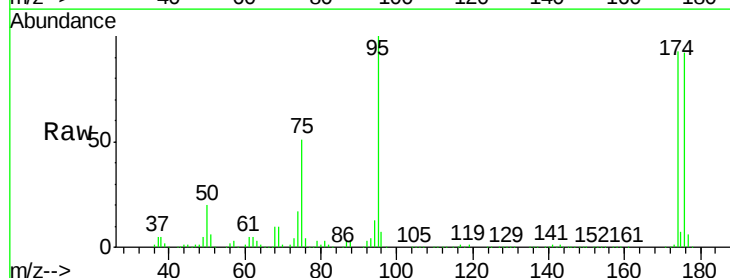
Acq: 08 May 2018 02:27

Tgt Ion: 75 Resp: 79101

Ion Ratio Lower Upper

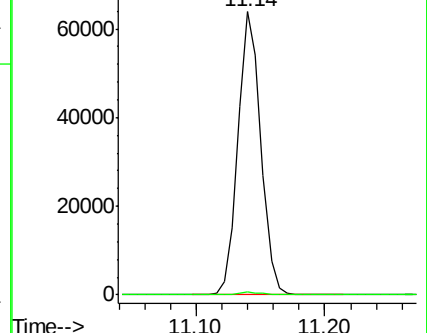
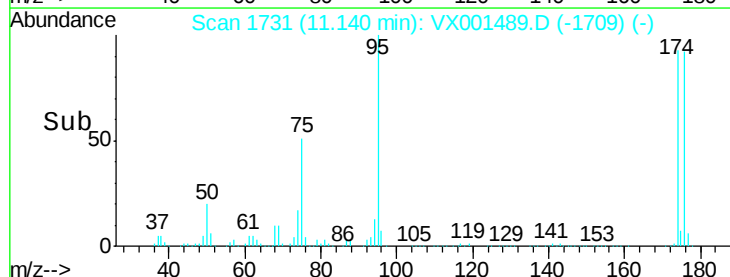
75 100

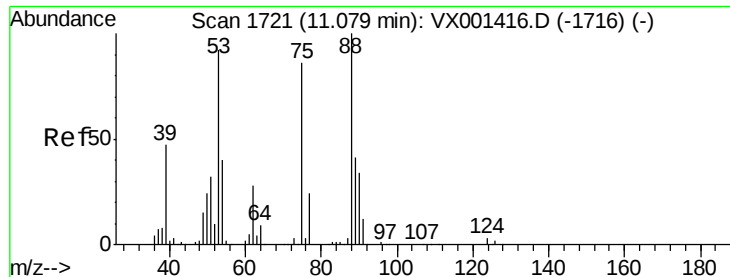
77 1.1 19.6 58.7#



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: 71.49 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

Instrument :

MSVOA_X

ClientSampleId :

LS-SOIL-PILE-1A

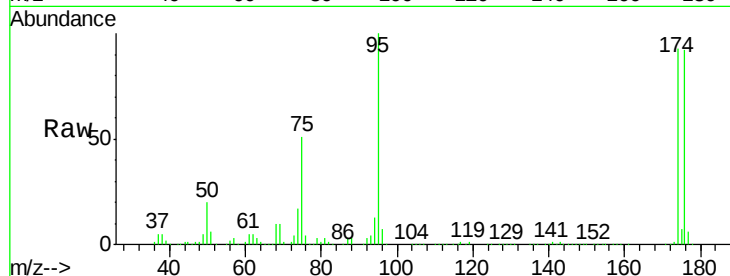
Tgt Ion: 75 Resp: 79101

Ion Ratio Lower Upper

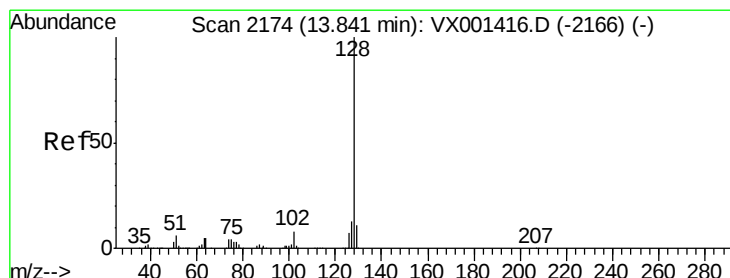
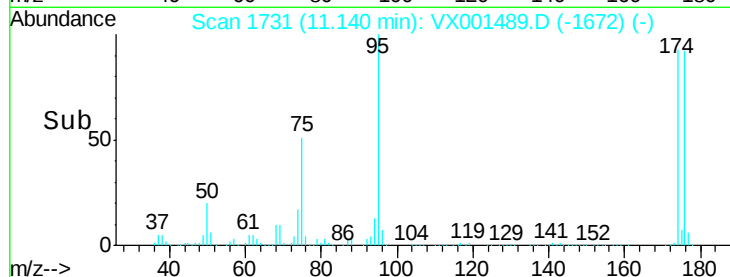
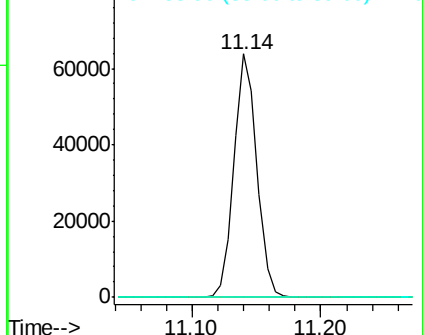
75 100

53 0.0 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



#95

Naphthalene

Concen: 2.85 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX001489.D

Acq: 08 May 2018 02:27

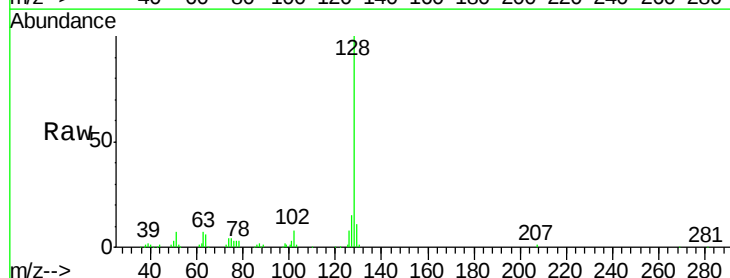
Tgt Ion: 128 Resp: 35672

Ion Ratio Lower Upper

128 100

127 13.8 10.4 15.6

129 11.0 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

