

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121318\
 Data File : VD060561.D
 Acq On : 13 Dec 2018 15:17
 Operator : VA/AP
 Sample : J6372-01
 Misc : 5.17g/5ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FP-SOIL-1

Quant Time: Dec 14 01:05:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	1363628	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.42	114	1925948	50.00	ug/l	-0.03
63) Chlorobenzene-d5	11.27	117	1380971	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.36	152	516493	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.76	65	434427	44.95	ug/l	-0.03
Spiked Amount			Recovery	=	89.90%	
35) Dibromofluoromethane	6.30	113	26113	1.85	ug/l	-0.03
Spiked Amount			Recovery	=	3.70%	
50) Toluene-d8	9.43	98	1422184	34.74	ug/l	-0.03
Spiked Amount			Recovery	=	69.48%	
62) 4-Bromofluorobenzene	12.41	95	482848	32.96	ug/l	-0.02
Spiked Amount			Recovery	=	65.92%	

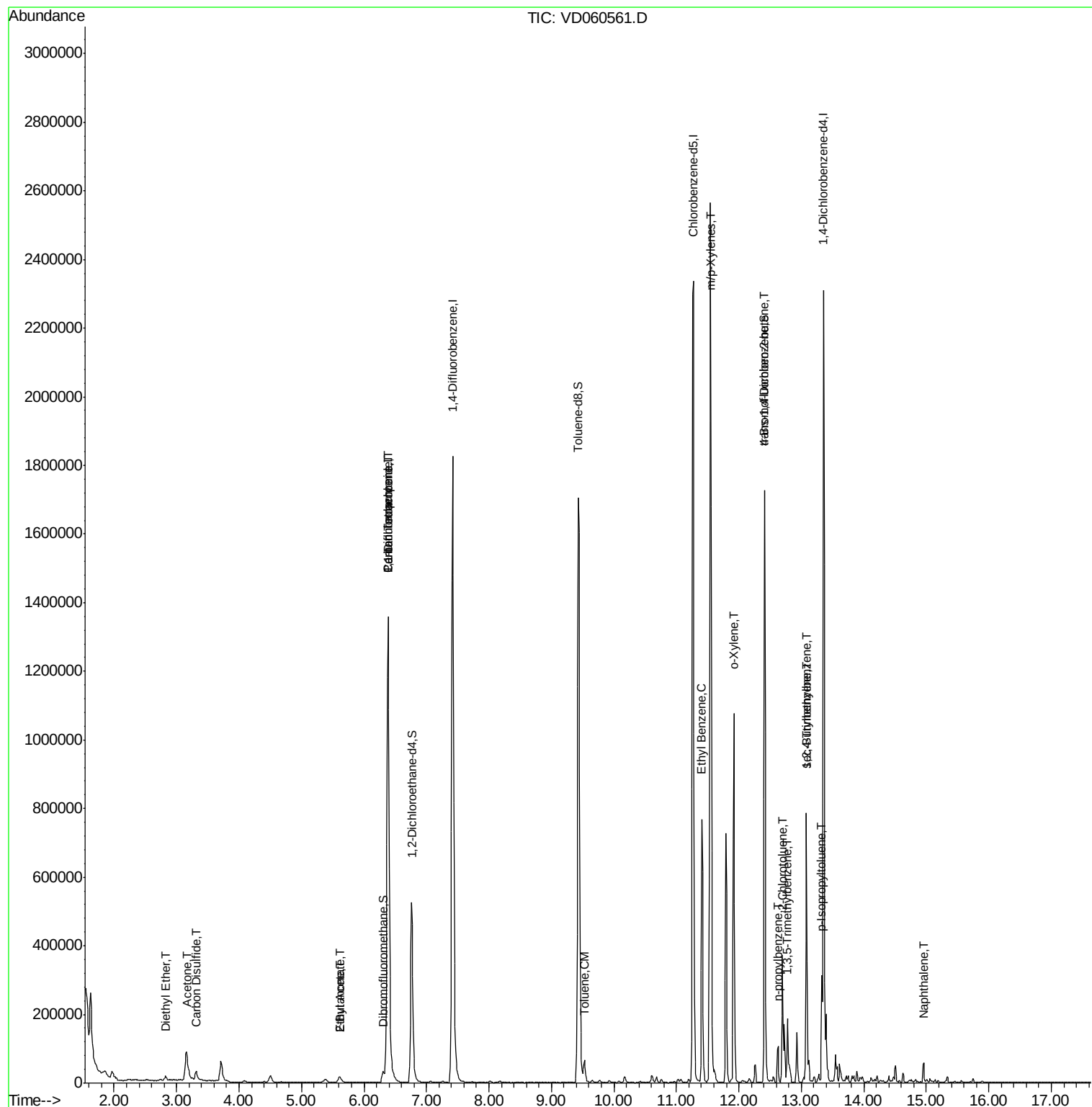
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.63	85	5494	Below Cal	#	70
8) Diethyl Ether	2.84	74	3990	1.789	ug/l	74
16) Acetone	3.16	43	198876	128.367	ug/l	99
17) Carbon Disulfide	3.32	76	49769	2.248	ug/l	96
20) Methylene Chloride	3.71	84	39634	Below Cal		98
25) 2-Butanone	5.60	43	33811	11.093	ug/l	# 88
31) Cyclohexane	6.39	56	37415	Below Cal	#	1
36) 1,1-Dichloropropene	6.39	75	95978	5.098	ug/l	# 46
37) Ethyl Acetate	5.60	43	33811	4.141	ug/l	# 68
38) Carbon Tetrachloride	6.39	117	106806	6.320	ug/l	# 16
52) Toluene	9.53	92	30830	1.025	ug/l	97
67) Ethyl Benzene	11.41	91	526133	10.558	ug/l	96
68) m/p-Xylenes	11.54	106	779323	42.272	ug/l	97
69) o-Xylene	11.92	106	253903	14.451	ug/l	94
78) n-propylbenzene	12.63	91	80976	1.753	ug/l	99
79) 2-Chlorotoluene	12.70	91	33089	1.320	ug/l	# 45
80) 1,3,5-Trimethylbenzene	12.77	105	90115	3.227	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.41	75	192973	118.229	ug/l	# 14
84) 1,2,4-Trimethylbenzene	13.08	105	345605	11.951	ug/l	98
85) sec-Butylbenzene	13.08	105	345624	8.856	ug/l	# 63
86) p-Isopropyltoluene	13.33	119	137687	4.450	ug/l	97
95) Naphthalene	14.96	128	37850	2.863	ug/l	97

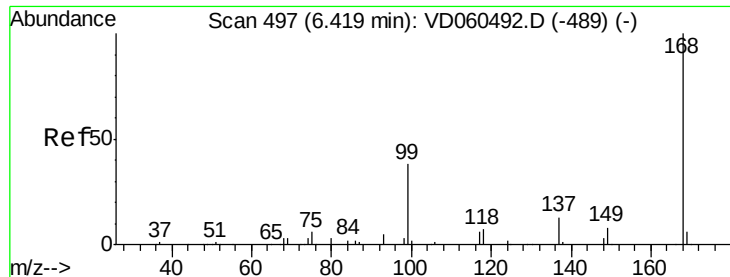
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 14 01:05:30 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 494

Delta R.T. -0.03 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

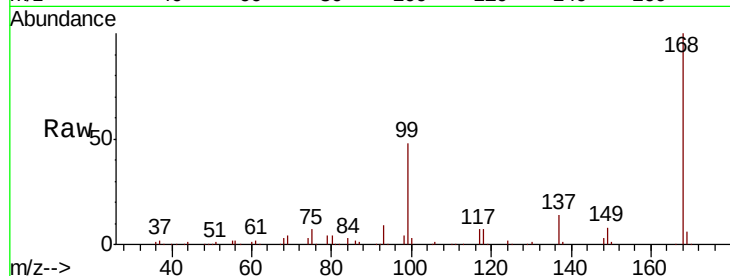
FP-SOIL-1

Tgt Ion:168 Resp: 1363628

Ion Ratio Lower Upper

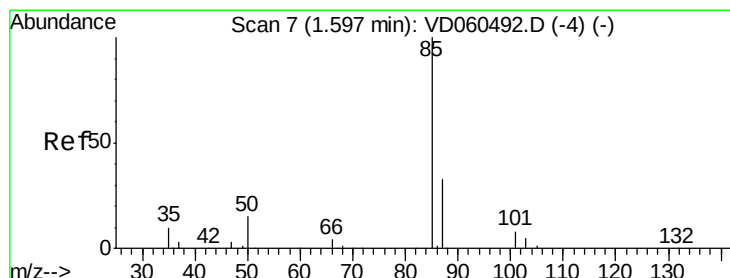
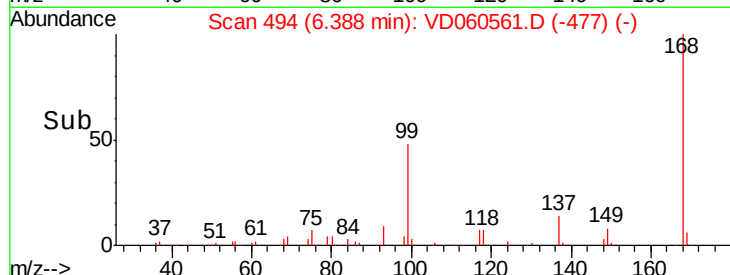
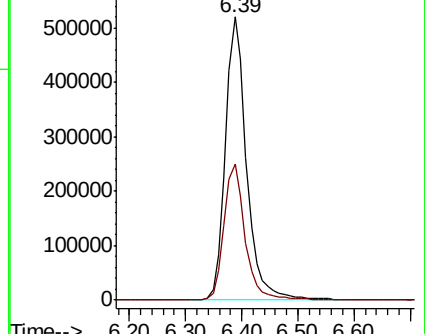
168 100

99 48.1 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.63 min Scan# 10

Delta R.T. 0.03 min

Lab File: VD060561.D

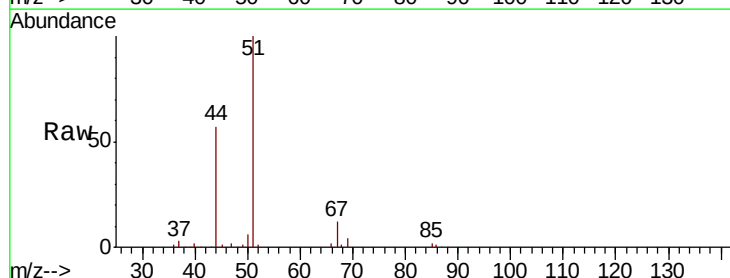
Acq: 13 Dec 2018 15:17

Tgt Ion: 85 Resp: 5494

Ion Ratio Lower Upper

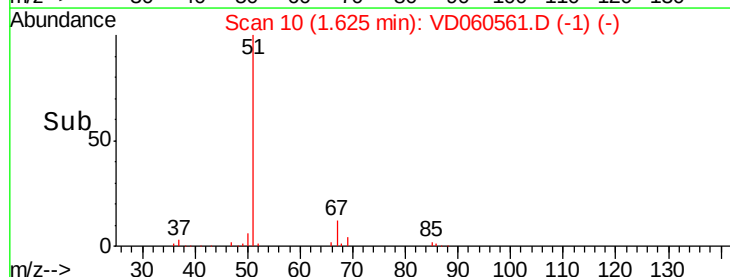
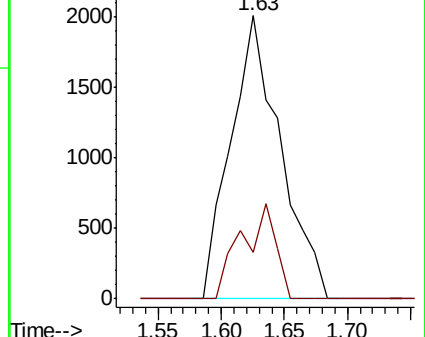
85 100

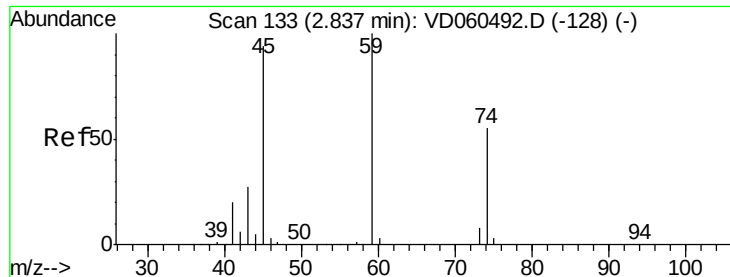
87 16.3 16.7 50.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#8

Diethyl Ether

Concen: 1.789 ug/l

RT: 2.84 min Scan# 133

Delta R.T. -0.00 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

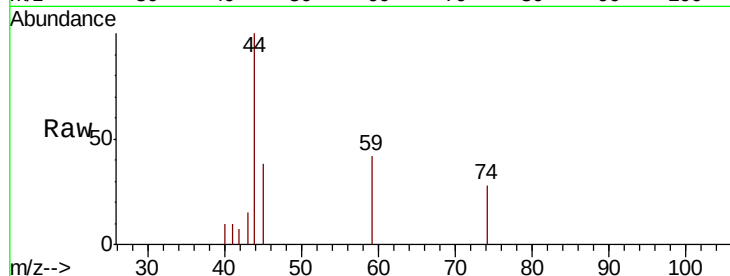
FP-SOIL-1

Tgt Ion: 74 Resp: 3990

Ion Ratio Lower Upper

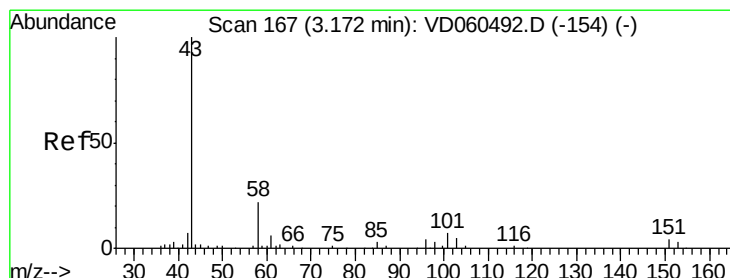
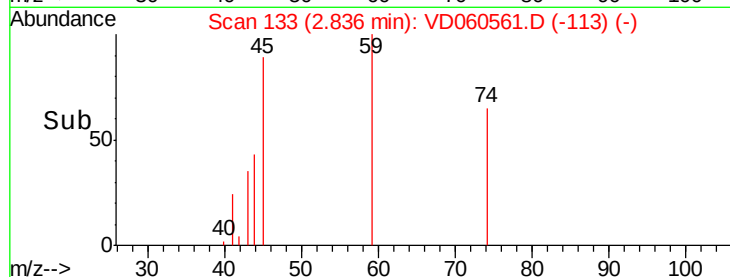
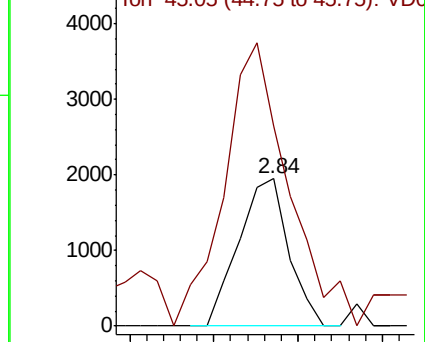
74 100

45 136.2 86.0 258.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#16

Acetone

Concen: 128.367 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.01 min

Lab File: VD060561.D

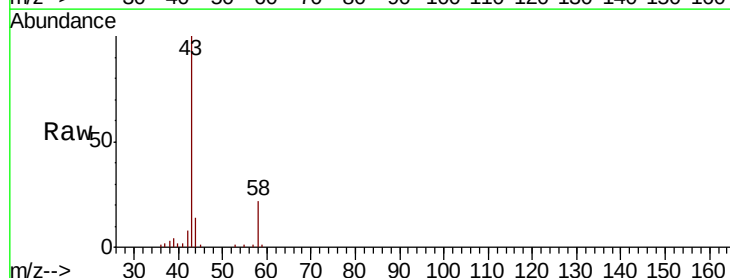
Acq: 13 Dec 2018 15:17

Tgt Ion: 43 Resp: 198876

Ion Ratio Lower Upper

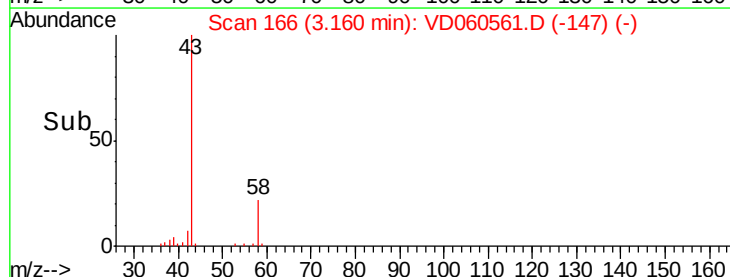
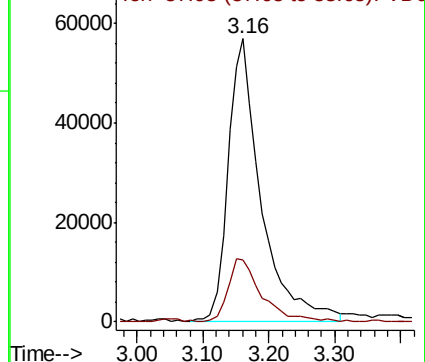
43 100

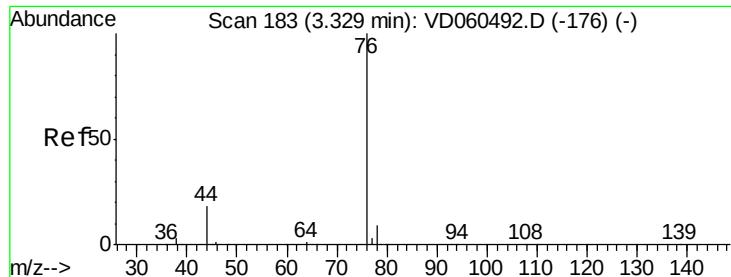
58 21.9 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

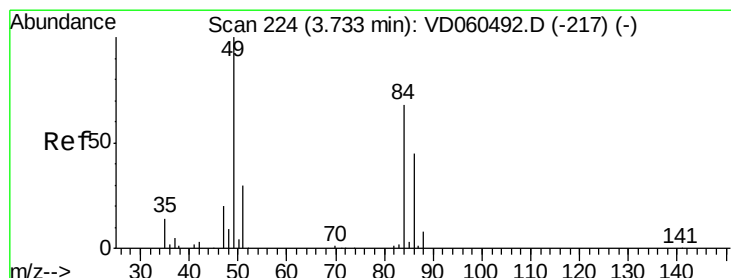
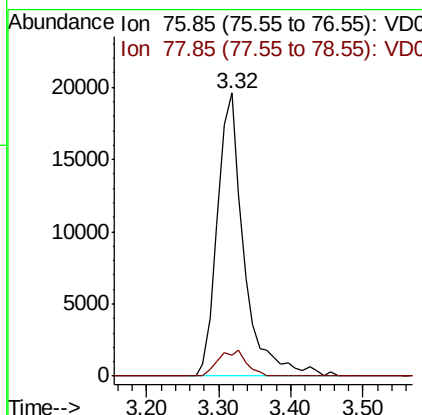
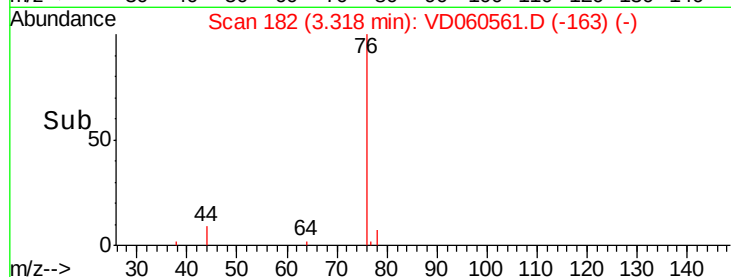
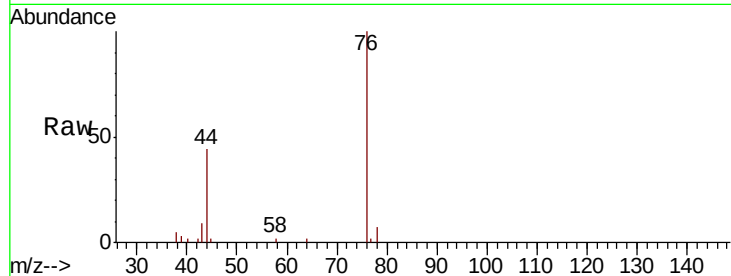




#17
Carbon Disulfide
Concen: 2.248 ug/l
RT: 3.32 min Scan# 182
Delta R.T. -0.01 min
Lab File: VD060561.D
Acq: 13 Dec 2018 15:17

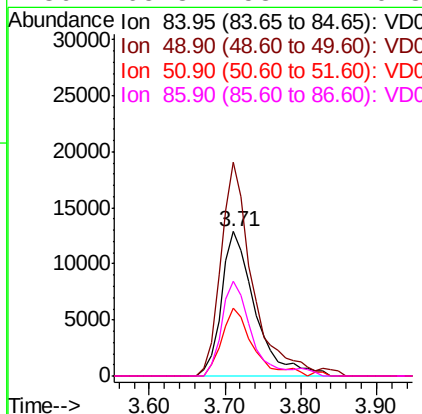
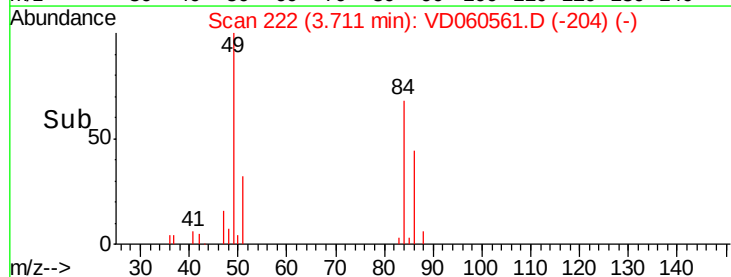
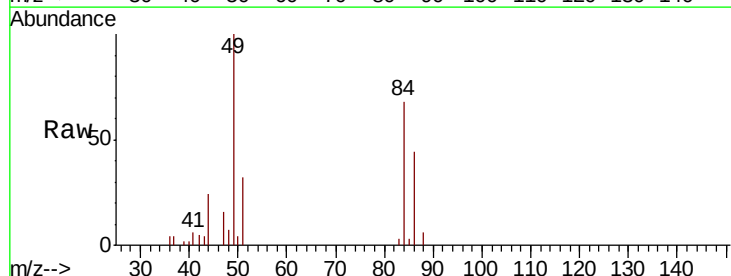
Instrument :
MSVOA_D
ClientSampleId :
FP-SOIL-1

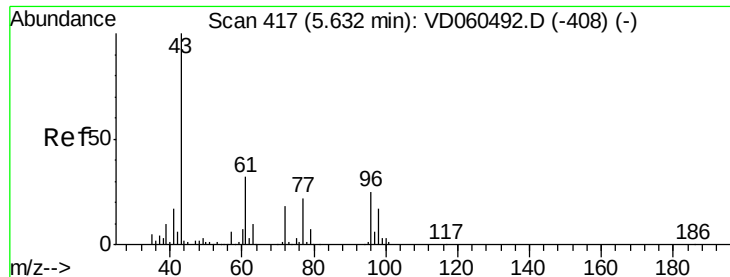
Tgt Ion: 76 Resp: 49769
Ion Ratio Lower Upper
76 100
78 7.3 7.0 10.6



#20
Methylene Chloride
Concen: Below Cal
RT: 3.71 min Scan# 222
Delta R.T. -0.02 min
Lab File: VD060561.D
Acq: 13 Dec 2018 15:17

Tgt Ion: 84 Resp: 39634
Ion Ratio Lower Upper
84 100
49 148.0 117.2 175.8
51 47.2 35.3 52.9
86 65.8 53.2 79.8





#25

2-Butanone

Concen: 11.093 ug/l

RT: 5.60 min Scan# 414

Delta R.T. -0.03 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

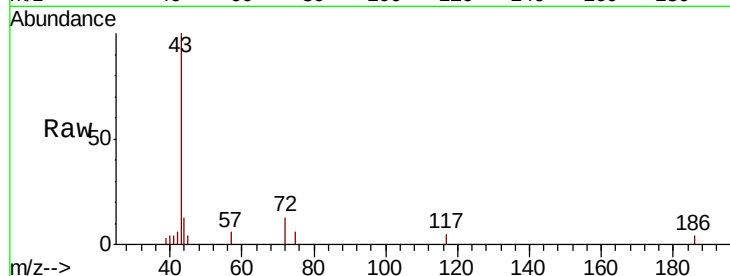
FP-SOIL-1

Tgt Ion: 43 Resp: 33811

Ion Ratio Lower Upper

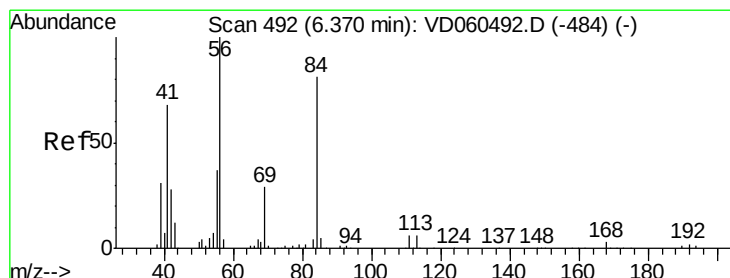
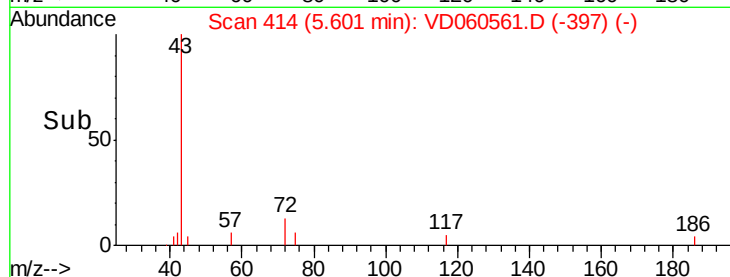
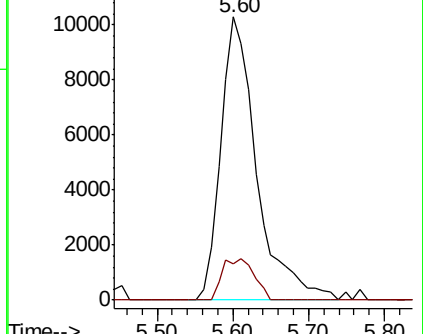
43 100

72 12.8 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 6.39 min Scan# 494

Delta R.T. 0.02 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

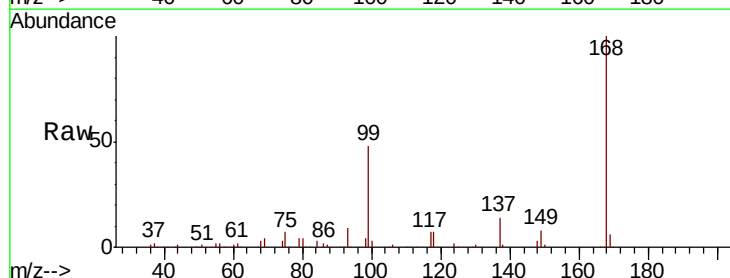
Tgt Ion: 56 Resp: 37415

Ion Ratio Lower Upper

56 100

69 197.5 22.8 34.2#

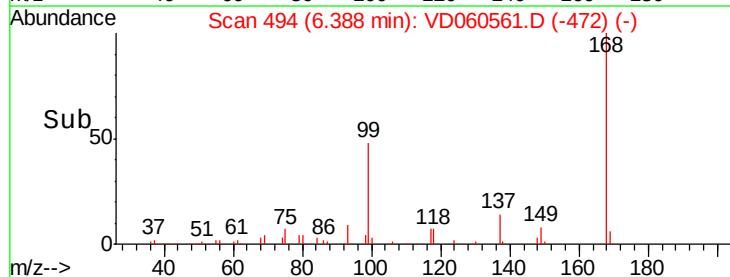
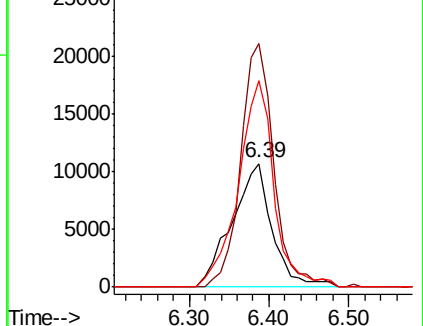
84 167.6 65.1 97.7#

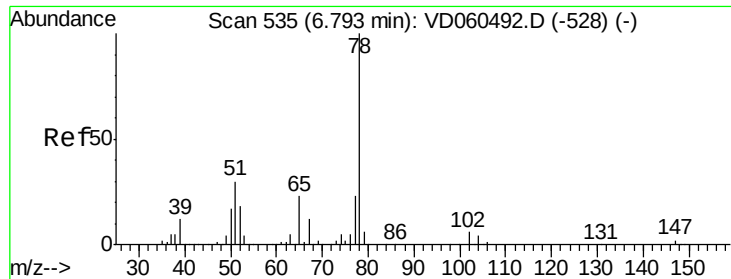


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

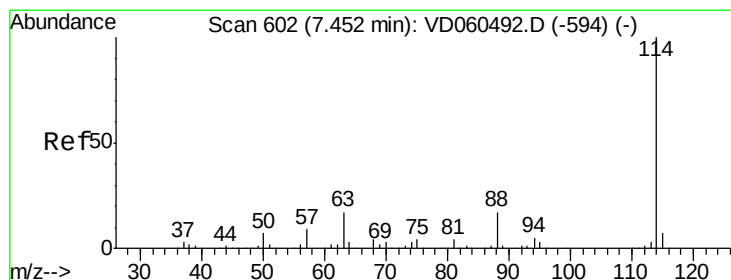
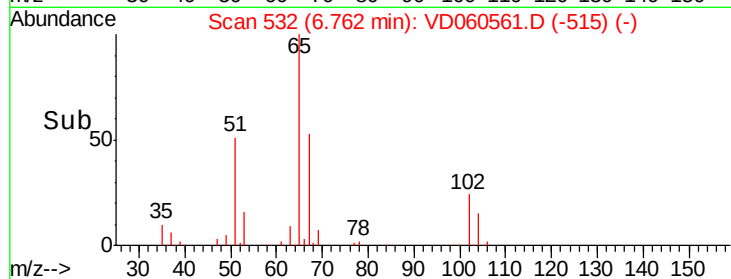
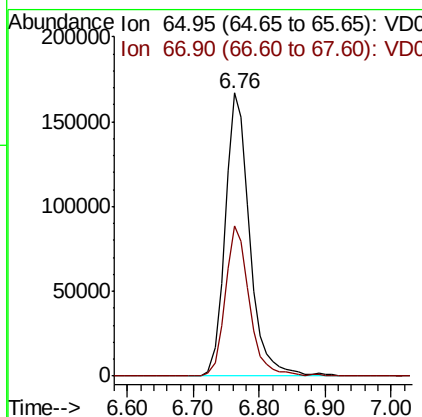
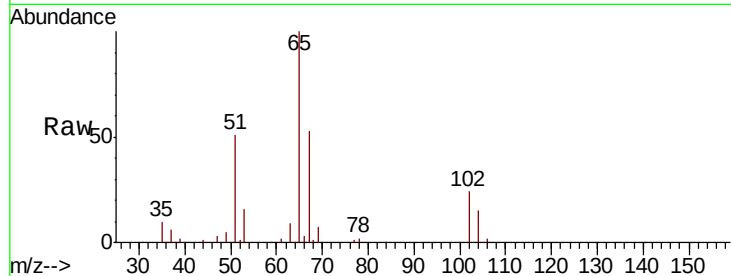




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.76 min Scan# 532
 Delta R.T. -0.03 min
 Lab File: VD060561.D
 Acq: 13 Dec 2018 15:17

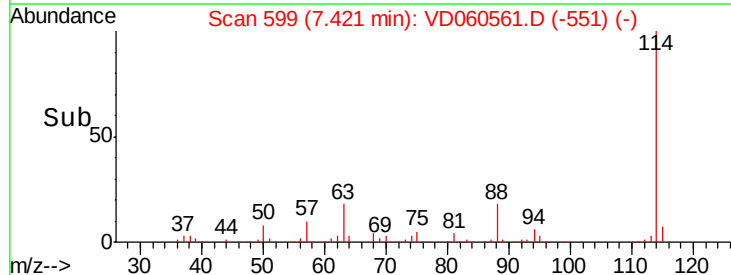
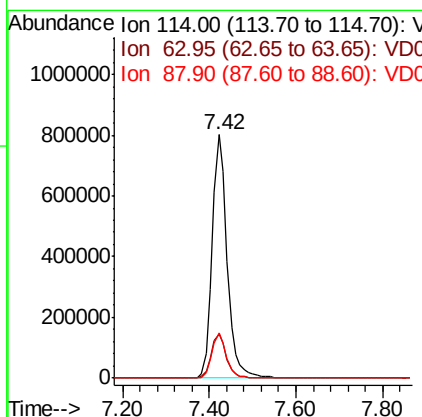
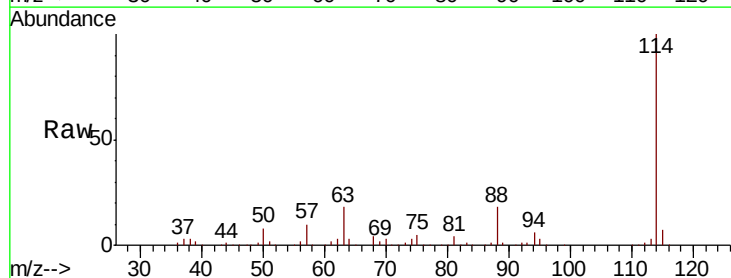
Instrument :
 MSVOA_D
 ClientSampleId :
 FP-SOIL-1

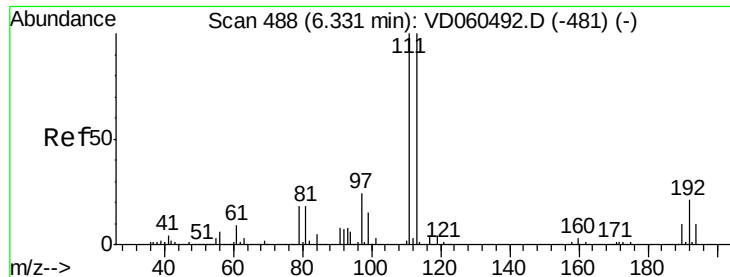
Tgt Ion: 65 Resp: 434427
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.42 min Scan# 599
 Delta R.T. -0.03 min
 Lab File: VD060561.D
 Acq: 13 Dec 2018 15:17

Tgt Ion: 114 Resp: 1925948
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 34.2
 88 18.5 0.0 35.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.30 min Scan# 485

Delta R.T. -0.03 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

FP-SOIL-1

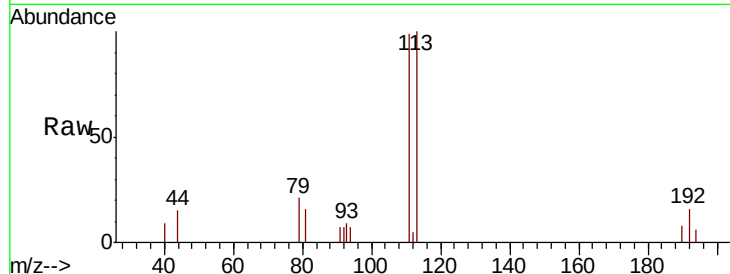
Tgt Ion:113 Resp: 26113

Ion Ratio Lower Upper

113 100

111 99.1 80.2 120.4

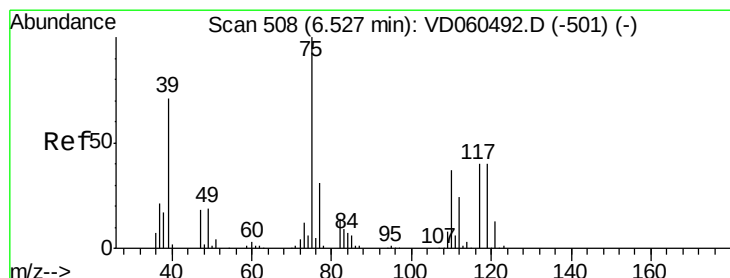
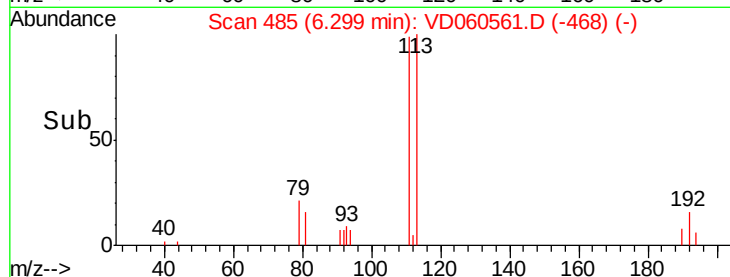
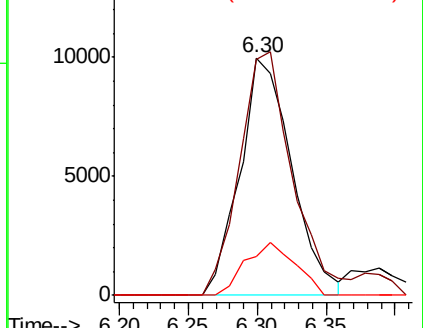
192 16.3 16.6 24.8#



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.098 ug/l

RT: 6.39 min Scan# 494

Delta R.T. -0.14 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

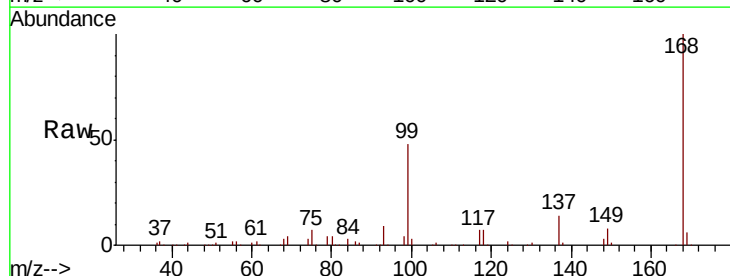
Tgt Ion: 75 Resp: 95978

Ion Ratio Lower Upper

75 100

110 5.9 18.3 54.8#

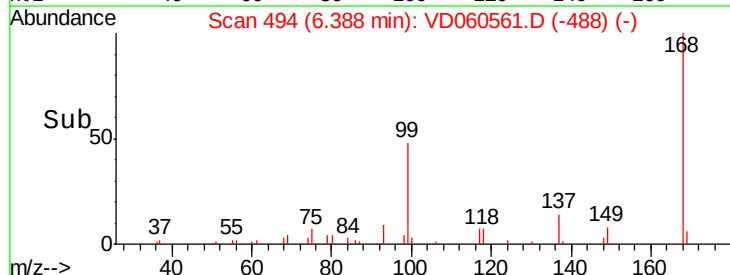
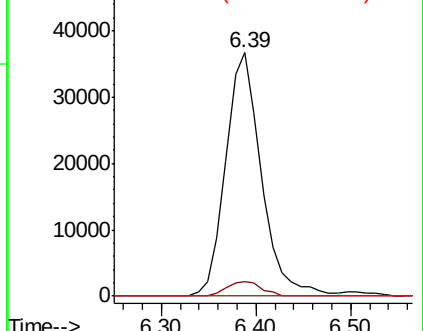
77 0.0 24.6 37.0#

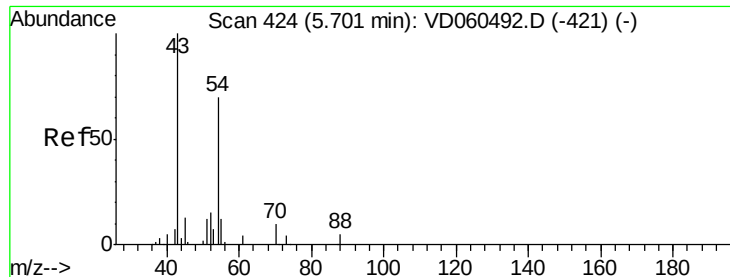


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

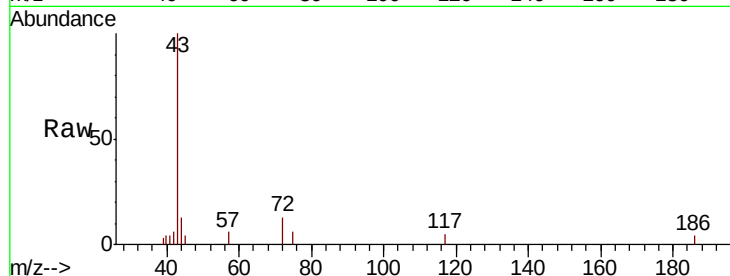




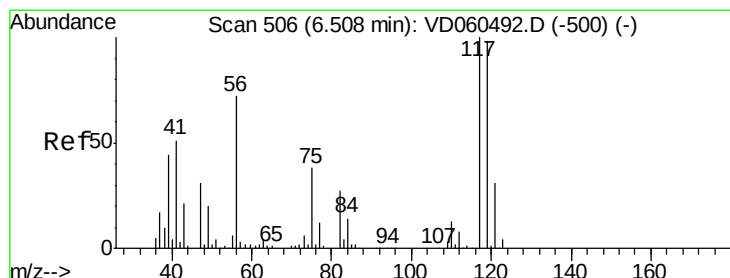
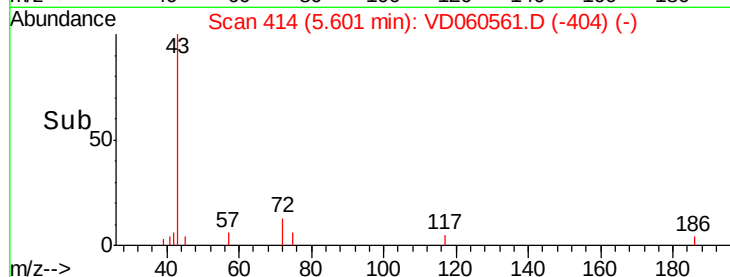
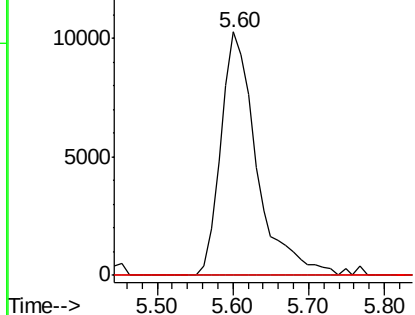
#37
Ethyl Acetate
Concen: 4.141 ug/l
RT: 5.60 min Scan# 414
Delta R.T. -0.10 min
Lab File: VD060561.D
Acq: 13 Dec 2018 15:17

Instrument :
MSVOA_D
ClientSampleID :
FP-SOIL-1

Tgt Ion: 43 Resp: 33811
Ion Ratio Lower Upper
43 100
61 0.0 12.4 18.6#
70 0.0 5.4 8.0#

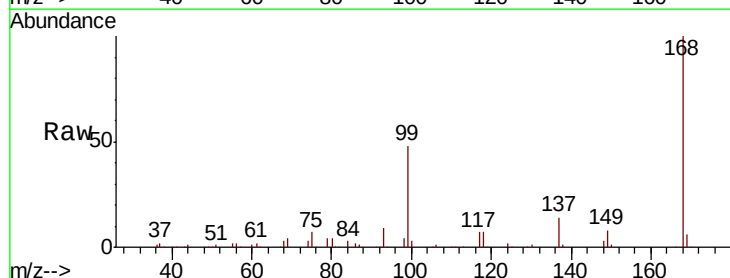


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

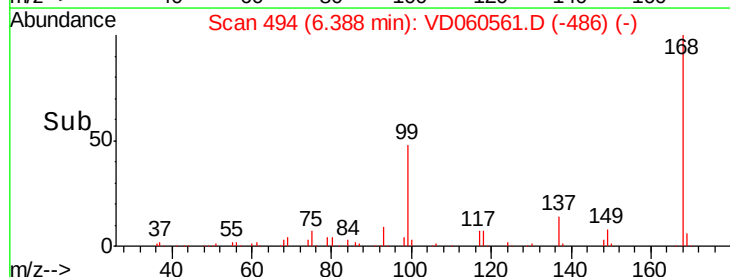
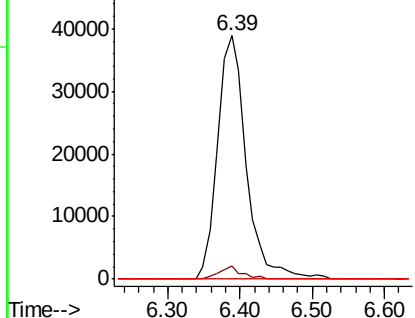


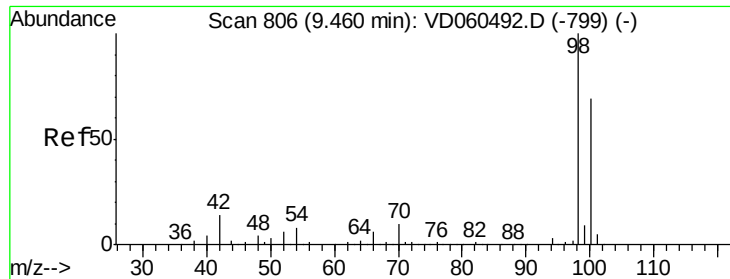
#38
Carbon Tetrachloride
Concen: 6.320 ug/l
RT: 6.39 min Scan# 494
Delta R.T. -0.12 min
Lab File: VD060561.D
Acq: 13 Dec 2018 15:17

Tgt Ion: 117 Resp: 106806
Ion Ratio Lower Upper
117 100
119 5.3 76.8 115.2#
121 0.0 24.4 36.6#



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.43 min Scan# 803

Delta R.T. -0.03 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

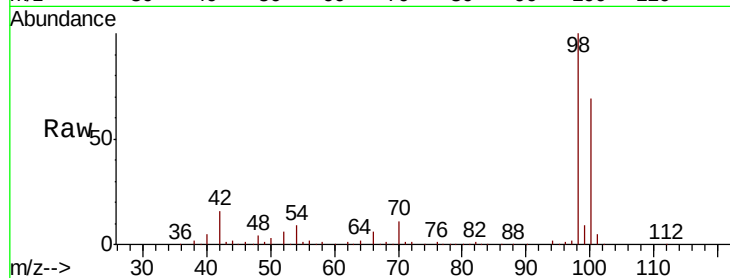
FP-SOIL-1

Tgt Ion: 98 Resp: 1422184

Ion Ratio Lower Upper

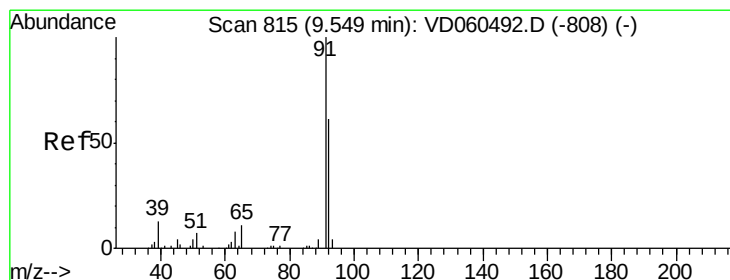
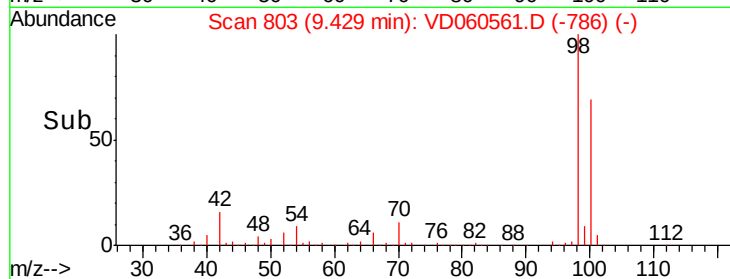
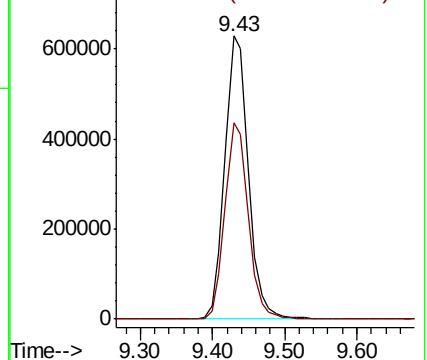
98 100

100 69.4 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 1.025 ug/l

RT: 9.53 min Scan# 813

Delta R.T. -0.02 min

Lab File: VD060561.D

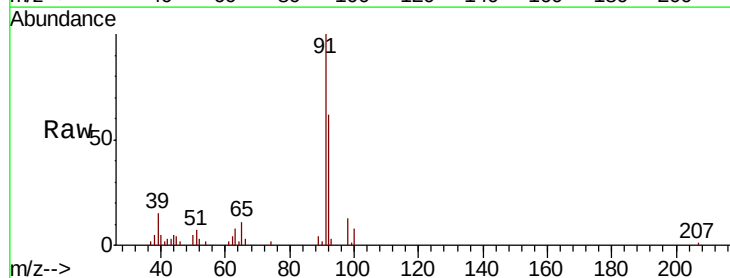
Acq: 13 Dec 2018 15:17

Tgt Ion: 92 Resp: 30830

Ion Ratio Lower Upper

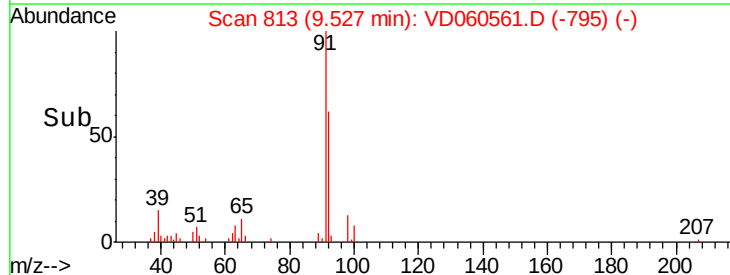
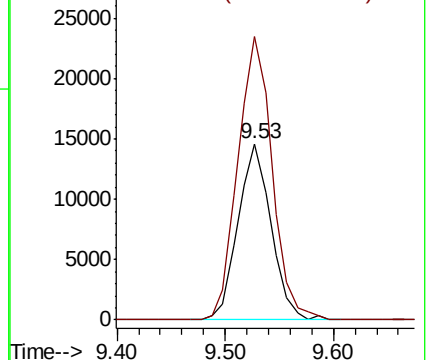
92 100

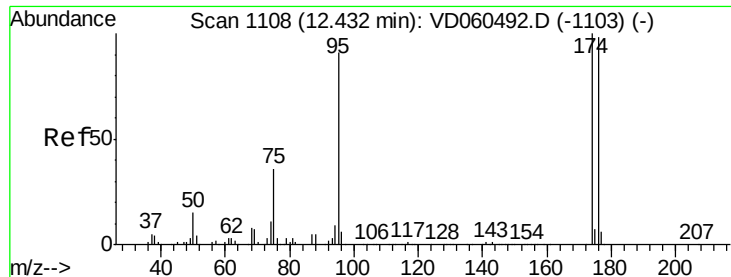
91 160.6 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.41 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

FP-SOIL-1

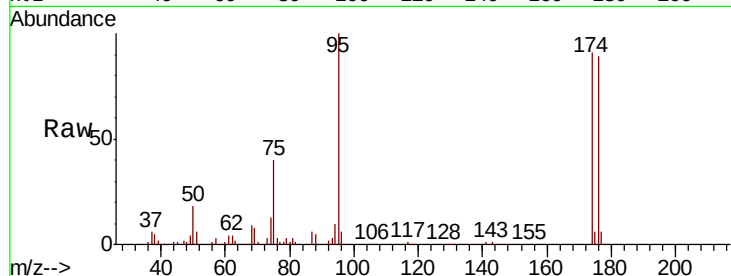
Tgt Ion: 95 Resp: 482848

Ion Ratio Lower Upper

95 100

174 90.8 0.0 219.4

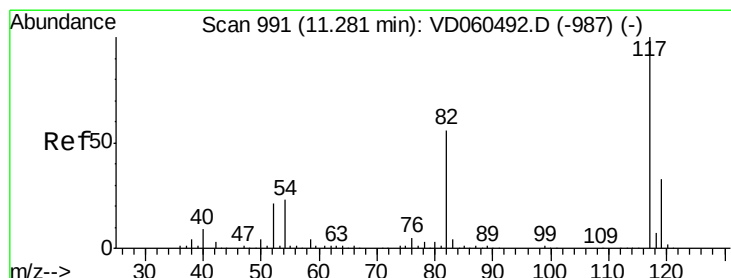
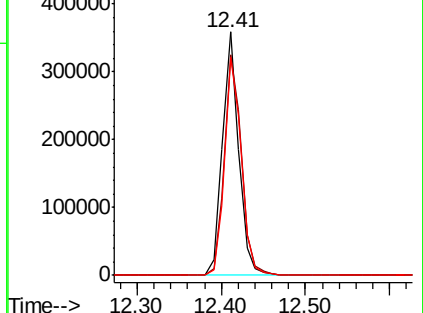
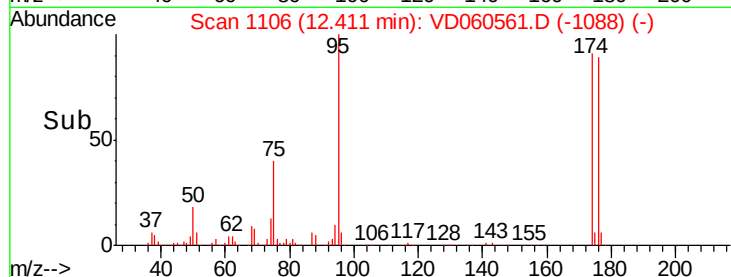
176 89.3 0.0 214.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.27 min Scan# 990

Delta R.T. -0.01 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

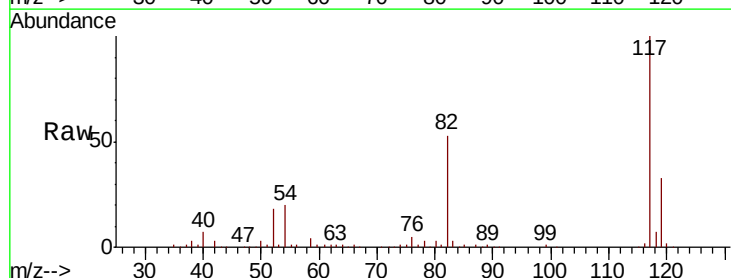
Tgt Ion: 117 Resp: 1380971

Ion Ratio Lower Upper

117 100

82 52.9 45.2 67.8

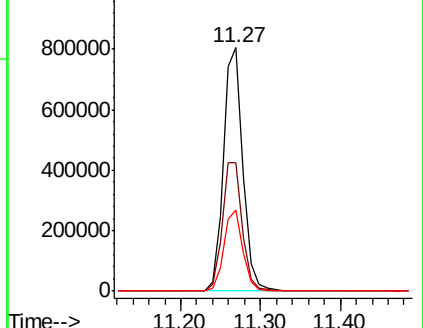
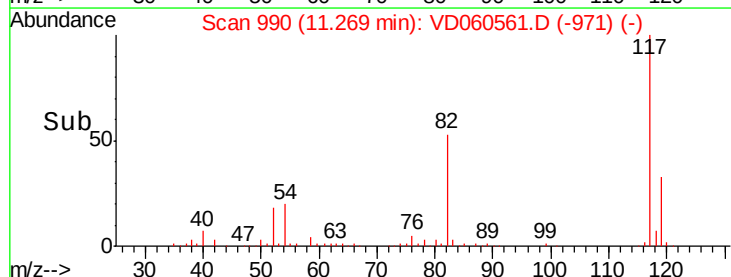
119 33.1 26.1 39.1

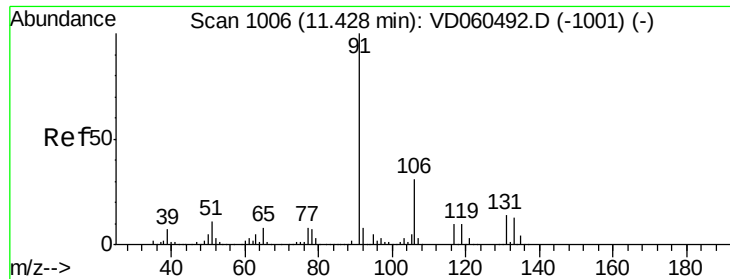


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

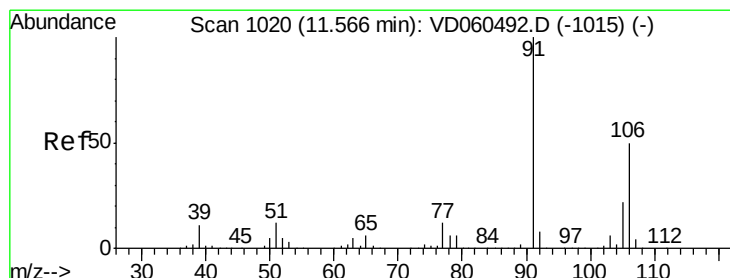
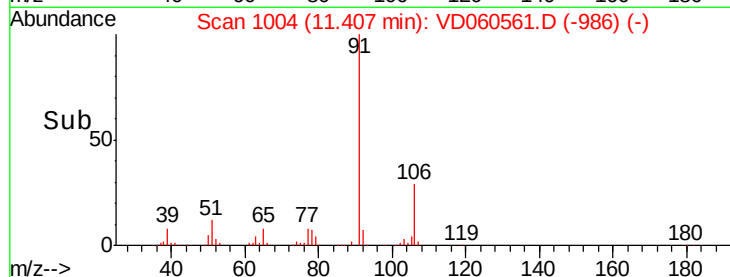
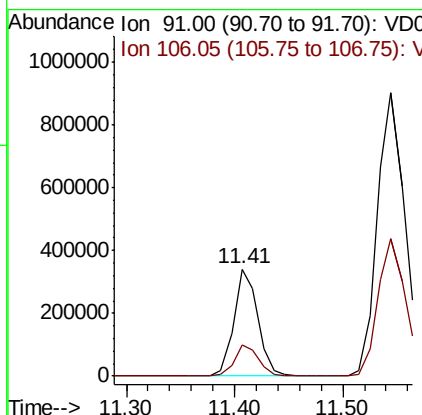
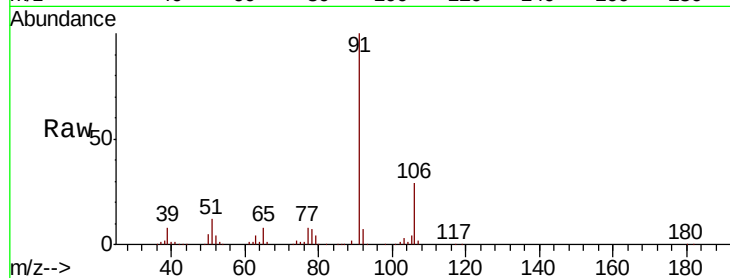




#67
Ethyl Benzene
Concen: 10.558 ug/l
RT: 11.41 min Scan# 1004
Delta R.T. -0.02 min
Lab File: VD060561.D
Acq: 13 Dec 2018 15:17

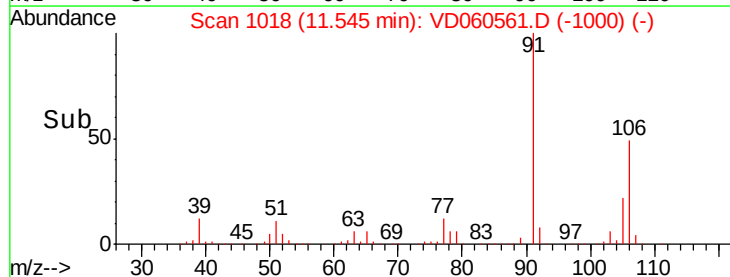
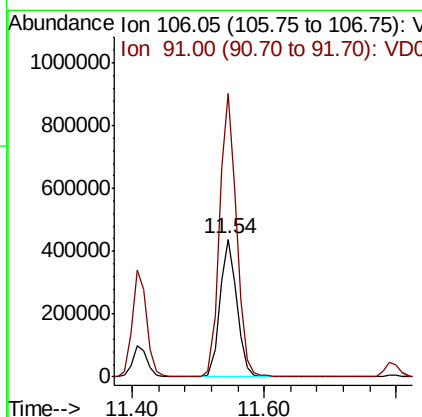
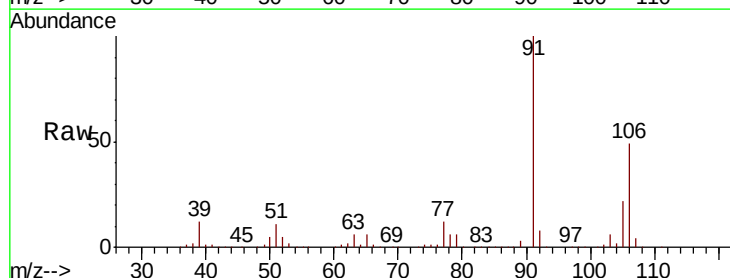
Instrument :
MSVOA_D
ClientSampleId :
FP-SOIL-1

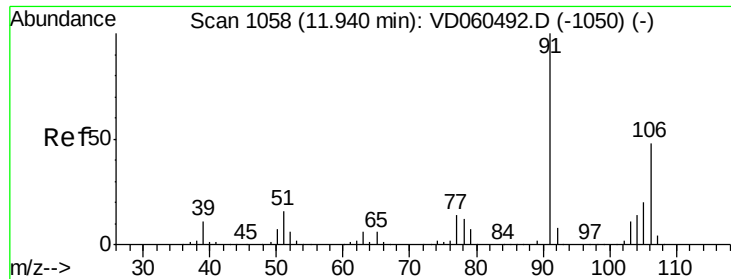
Tgt Ion: 91 Resp: 526133
Ion Ratio Lower Upper
91 100
106 28.7 24.6 37.0



#68
m/p-Xylenes
Concen: 42.272 ug/l
RT: 11.54 min Scan# 1018
Delta R.T. -0.02 min
Lab File: VD060561.D
Acq: 13 Dec 2018 15:17

Tgt Ion: 106 Resp: 779323
Ion Ratio Lower Upper
106 100
91 205.2 160.5 240.7

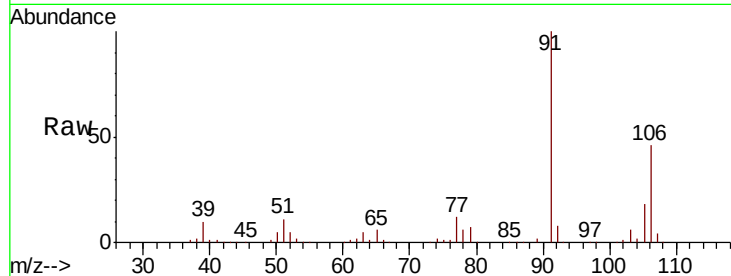




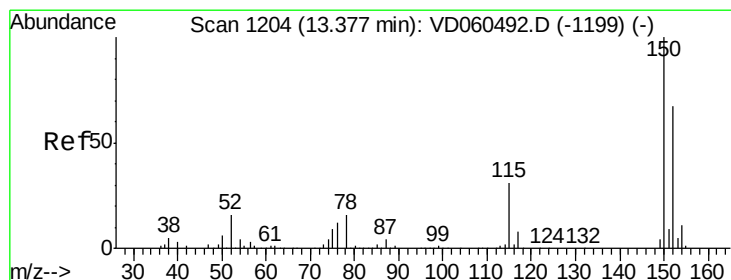
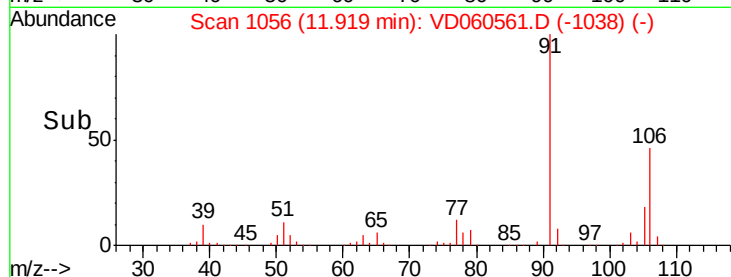
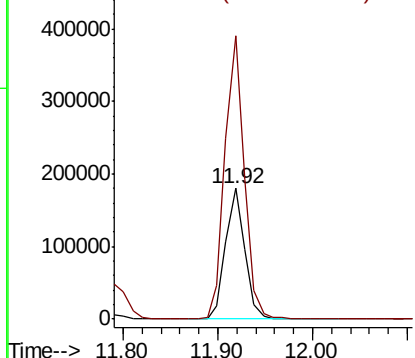
#69
o-Xylene
Concen: 14.451 ug/l
RT: 11.92 min Scan# 1056
Delta R.T. -0.02 min
Lab File: VD060561.D
Acq: 13 Dec 2018 15:17

Instrument :
MSVOA_D
ClientSampleId :
FP-SOIL-1

Tgt Ion:106 Resp: 253903
Ion Ratio Lower Upper
106 100
91 216.0 103.4 310.1

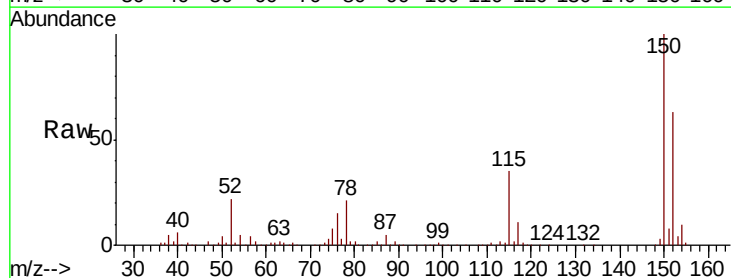


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

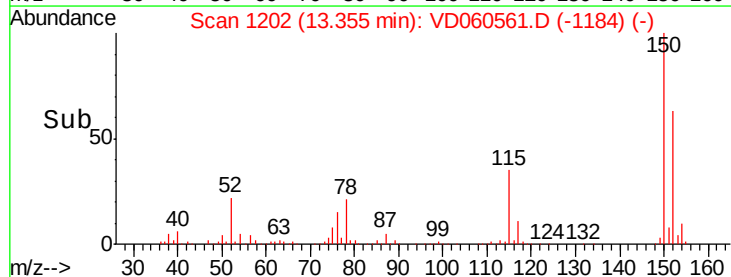
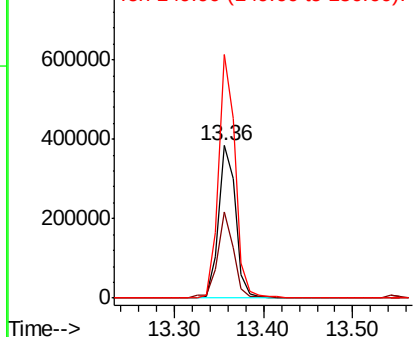


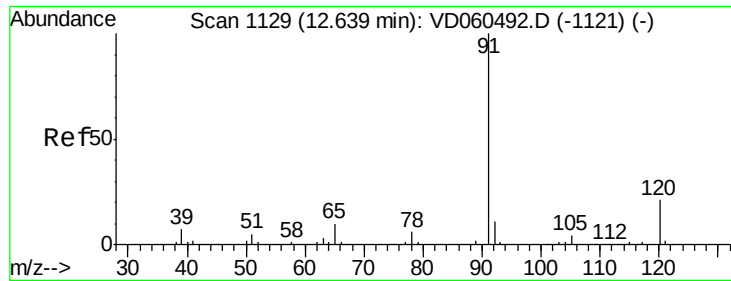
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1202
Delta R.T. -0.02 min
Lab File: VD060561.D
Acq: 13 Dec 2018 15:17

Tgt Ion:152 Resp: 516493
Ion Ratio Lower Upper
152 100
115 56.1 24.6 74.0
150 159.5 0.0 309.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V

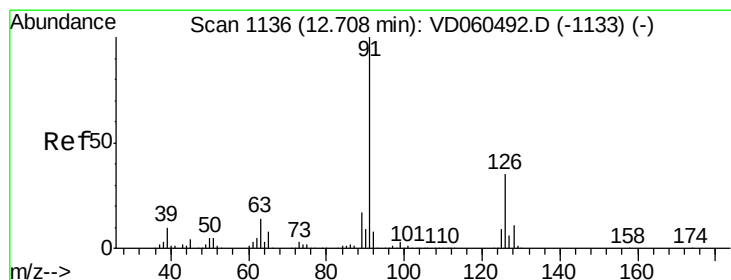
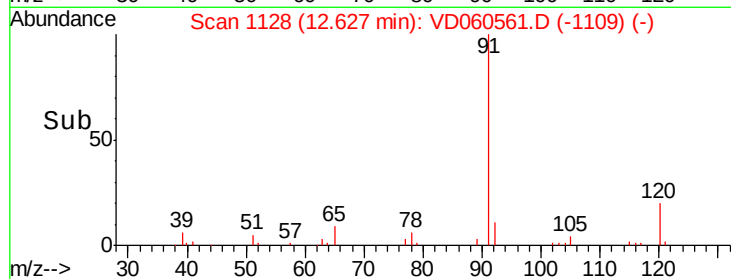
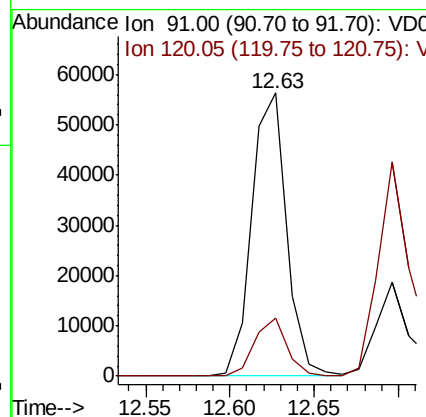
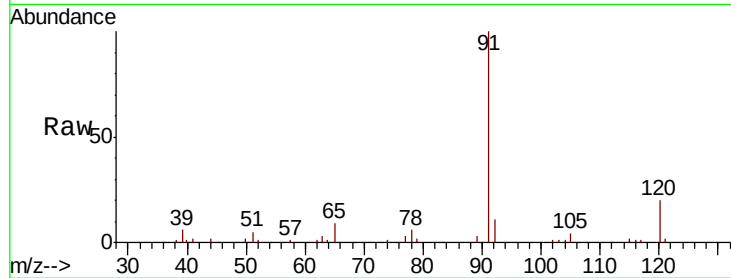




#78
n-propylbenzene
Concen: 1.753 ug/l
RT: 12.63 min Scan# 1128
Delta R.T. -0.01 min
Lab File: VD060561.D
Acq: 13 Dec 2018 15:17

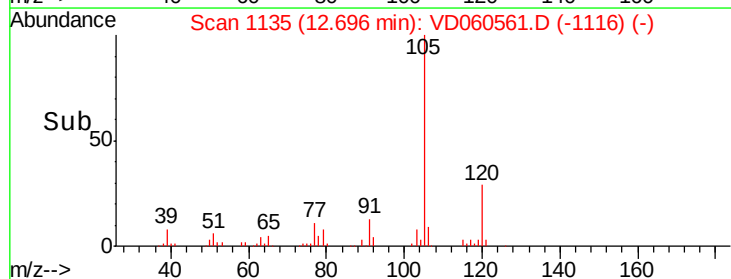
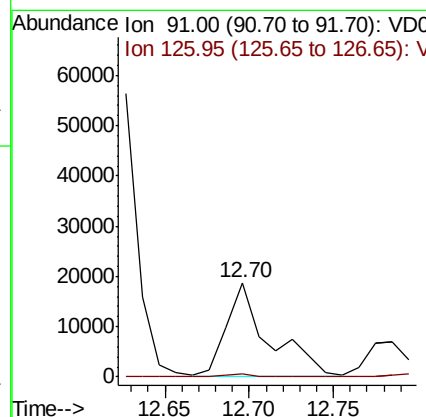
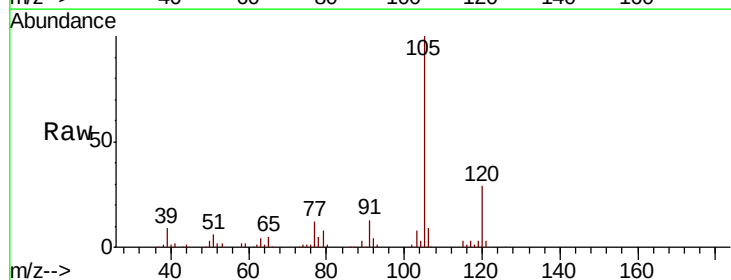
Instrument :
MSVOA_D
ClientSampleId :
FP-SOIL-1

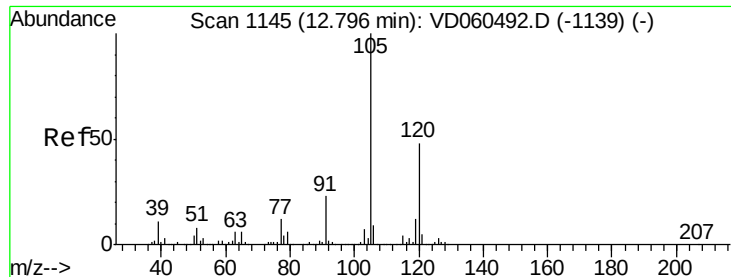
Tgt Ion: 91 Resp: 80976
Ion Ratio Lower Upper
91 100
120 20.4 10.4 31.1



#79
2-Chlorotoluene
Concen: 1.320 ug/l
RT: 12.70 min Scan# 1135
Delta R.T. -0.01 min
Lab File: VD060561.D
Acq: 13 Dec 2018 15:17

Tgt Ion: 91 Resp: 33089
Ion Ratio Lower Upper
91 100
126 2.8 17.3 52.0#

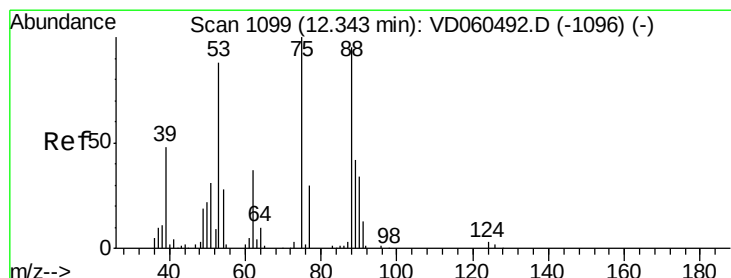
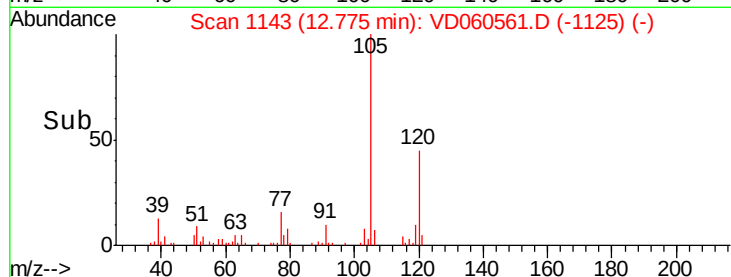
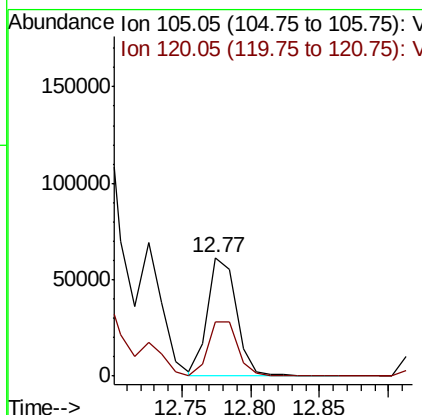
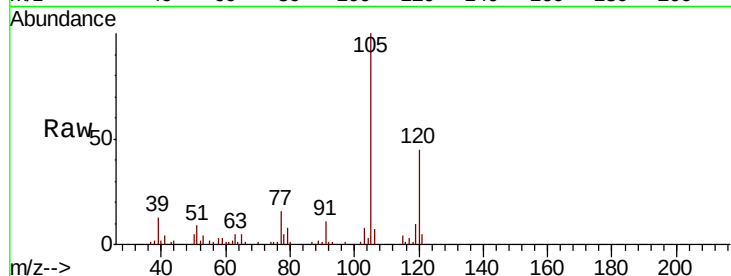




#80
 1,3,5-Trimethylbenzene
 Concen: 3.227 ug/l
 RT: 12.77 min Scan# 1143
 Delta R.T. -0.02 min
 Lab File: VD060561.D
 Acq: 13 Dec 2018 15:17

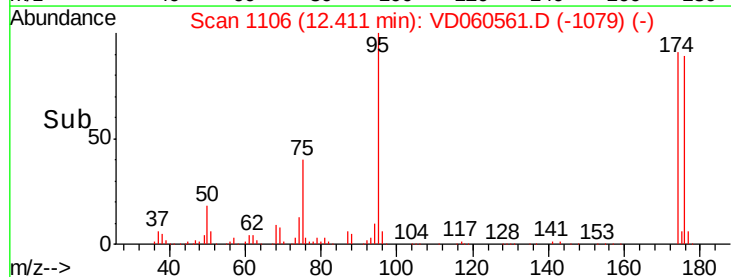
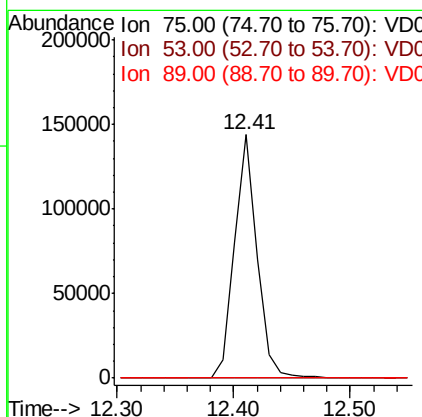
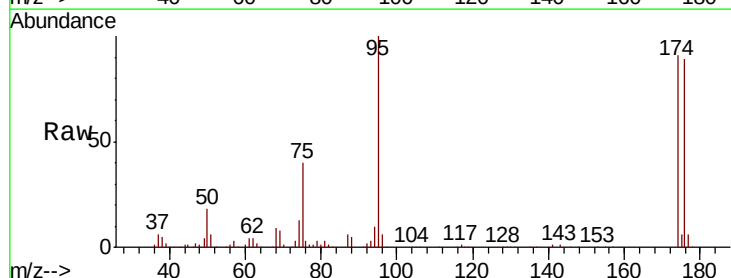
Instrument :
 MSVOA_D
 ClientSampleId :
 FP-SOIL-1

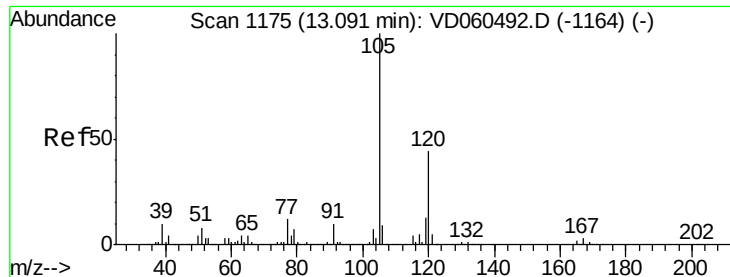
Tgt Ion:105 Resp: 90115
 Ion Ratio Lower Upper
 105 100
 120 45.4 24.2 72.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 118.229 ug/l
 RT: 12.41 min Scan# 1106
 Delta R.T. 0.07 min
 Lab File: VD060561.D
 Acq: 13 Dec 2018 15:17

Tgt Ion: 75 Resp: 192973
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.5 105.7#
 89 0.0 33.6 50.4#





#84

1,2,4-Trimethylbenzene

Concen: 11.951 ug/l

RT: 13.08 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

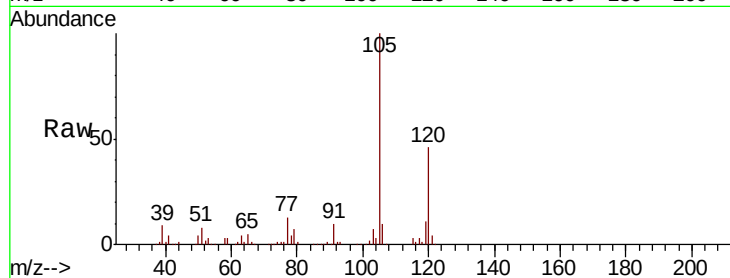
FP-SOIL-1

Tgt Ion:105 Resp: 345605

Ion Ratio Lower Upper

105 100

120 45.8 22.3 66.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.08

250000

200000

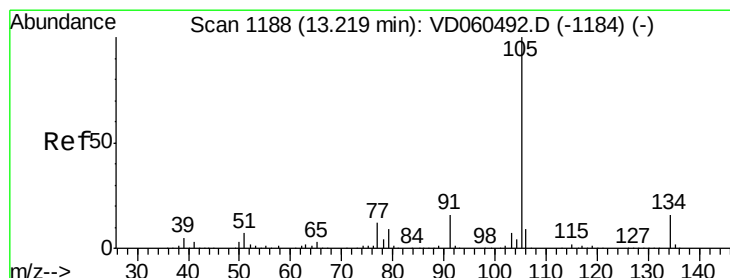
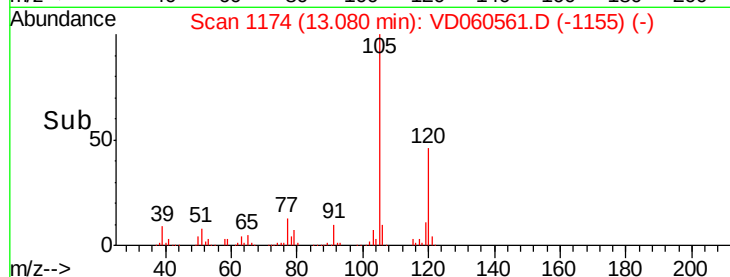
150000

100000

50000

0

Time-->



#85

sec-Butylbenzene

Concen: 8.856 ug/l

RT: 13.08 min Scan# 1174

Delta R.T. -0.14 min

Lab File: VD060561.D

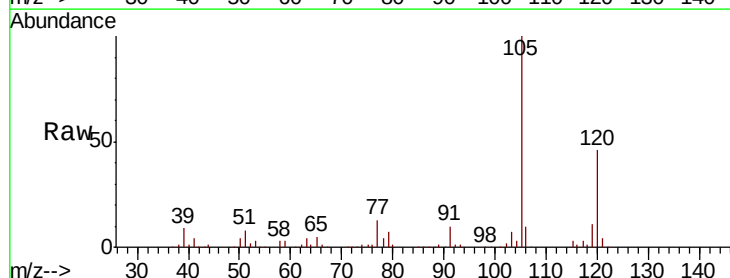
Acq: 13 Dec 2018 15:17

Tgt Ion:105 Resp: 345624

Ion Ratio Lower Upper

105 100

134 0.0 7.9 23.7#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

13.08

250000

200000

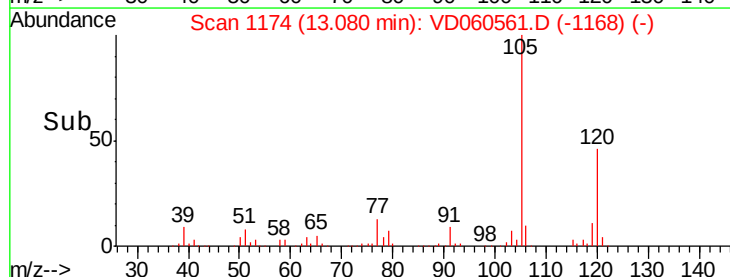
150000

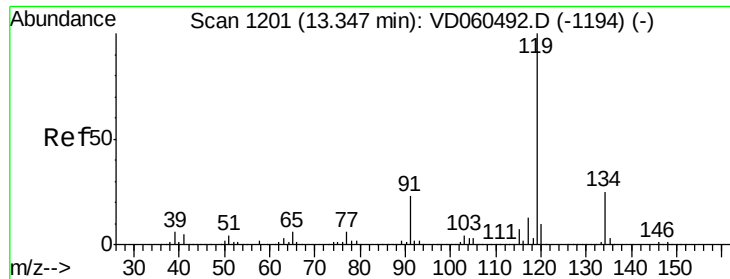
100000

50000

0

Time-->





#86

p-Isopropyltoluene

Concen: 4.450 ug/l

RT: 13.33 min Scan# 1199

Delta R.T. -0.02 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

FP-SOIL-1

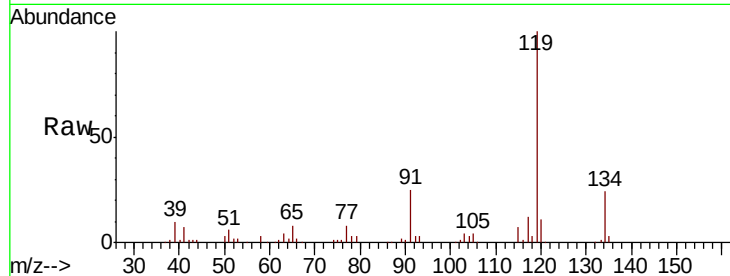
Tgt Ion:119 Resp: 137687

Ion Ratio Lower Upper

119 100

134 24.3 12.5 37.5

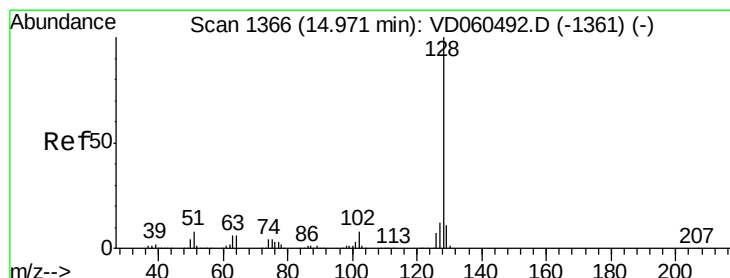
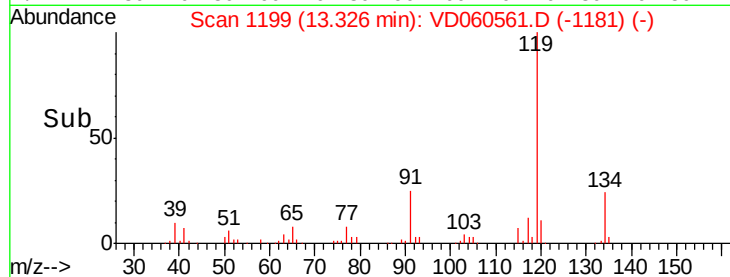
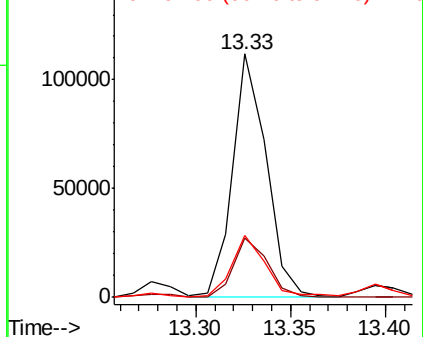
91 25.4 11.5 34.4



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V



#95

Naphthalene

Concen: 2.863 ug/l

RT: 14.96 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VD060561.D

Acq: 13 Dec 2018 15:17

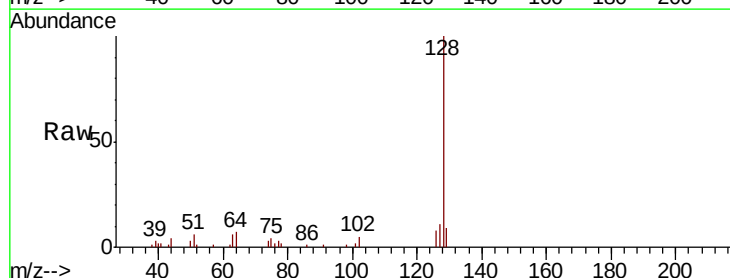
Tgt Ion:128 Resp: 37850

Ion Ratio Lower Upper

128 100

127 11.2 9.8 14.8

129 9.4 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

