

Data Path : Z:\HPCHEM1\BNA F\Data\BF110415\
 Data File : BF082693.D
 Acq On : 4 Nov 2015 9:41
 Operator : UM/IZ
 Sample : G4236-04DL 2X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-SOIL-004DL

Quant Time: Nov 04 10:17:35 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF103015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 03 12:27:47 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	160920	20.00	ng	0.01
21) Naphthalene-d8	8.18	136	588287	20.00	ng	0.01
38) Acenaphthene-d10	9.93	164	282338	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	471313	20.00	ng	0.00
75) Chrysene-d12	14.05	240	368706	20.00	ng	0.00
86) Perylene-d12	15.52	264	357547	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	590261	55.25	ng	0.01
7) Phenol-d6	6.51	99	812535	57.24	ng	0.00
23) Nitrobenzene-d5	7.45	82	678596	47.10	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	187282	60.61	ng	0.00
44) 2-Fluorobiphenyl	9.25	172	1073191	53.97	ng	0.00
78) Terphenyl-d14	13.00	244	679232	40.32	ng	0.00

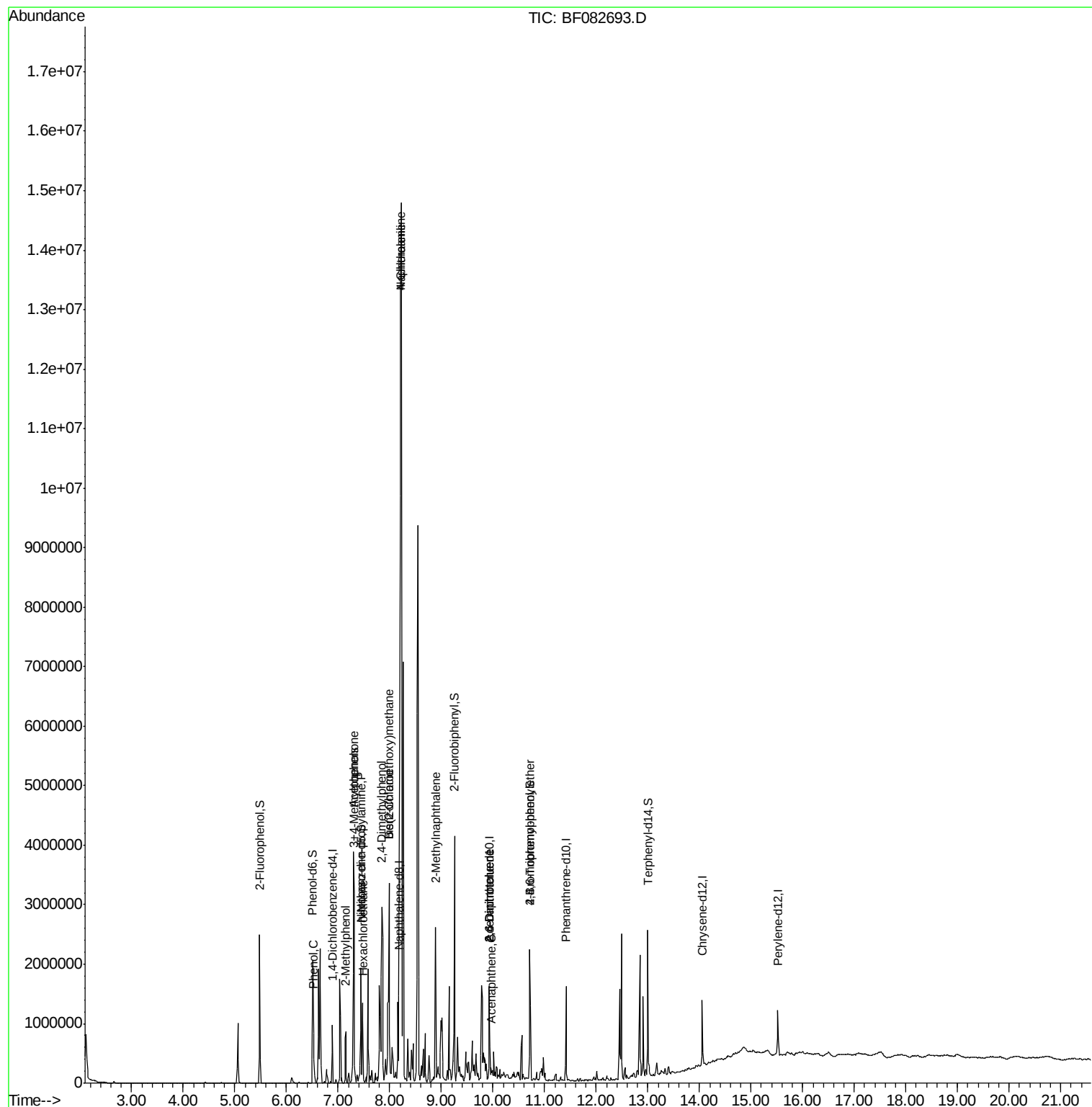
Target Compounds				Qvalue		
10) Phenol	6.52	94	67435	4.19	ng	89
17) 2-Methylphenol	7.15	107	96379	9.81	ng	99
18) Hexachloroethane	7.48	117	428980	84.08	ng	# 5
19) n-Nitroso-di-n-propylamine	7.45	70	93162	8.66	ng	# 65
20) 3+4-Methylphenols	7.31	107	527094	41.26	ng	# 61
22) Acetophenone	7.30	105	385621	22.27	ng	# 71
27) 2,4-Dimethylphenol	7.85	122	843548	81.24	ng	96
28) bis(2-Chloroethoxy)methane	7.98	93	47931	3.31	ng	# 1
31) Naphthalene	8.22	128	10983257	345.03	ng	# 81
32) Benzoic acid	7.98	122	751404	99.75	ng	# 8
33) 4-Chloroaniline	8.22	127	2152209	158.36	ng	# 30
37) 2-Methylnaphthalene	8.89	142	601717	29.17	ng	97
50) 2,6-Dinitrotoluene	9.93	165	37153	7.77	ng	# 31
51) Acenaphthene	9.96	154	45224	2.39	ng	98
56) 2,4-Dinitrotoluene	9.93	165	37155	5.75	ng	# 29
66) 4-Bromophenyl-phenylether	10.72	248	13741	2.57	ng	# 1

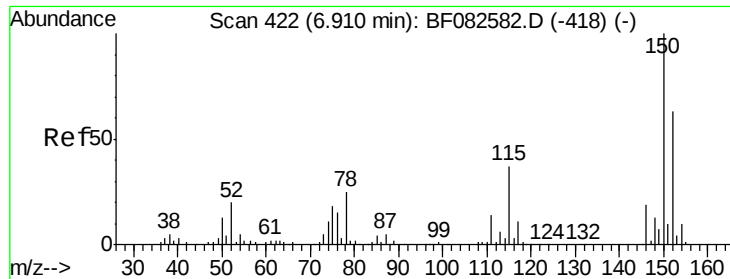
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 420

Delta R.T. 0.01 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-004DL

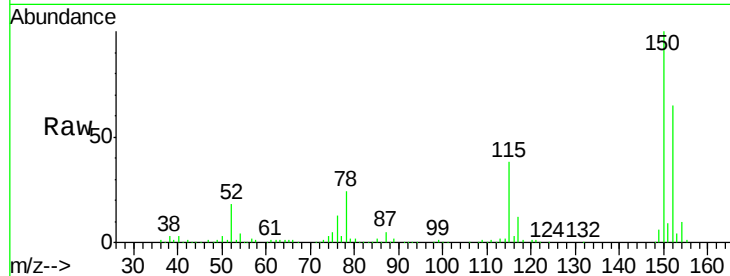
Tot Ion:152 Resp: 160920

Ion Ratio Lower Upper

152 100

150 154.3 127.0 190.4

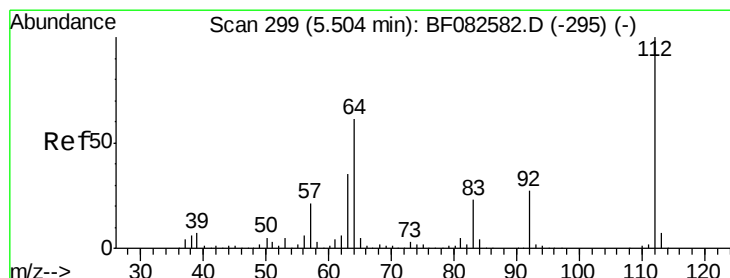
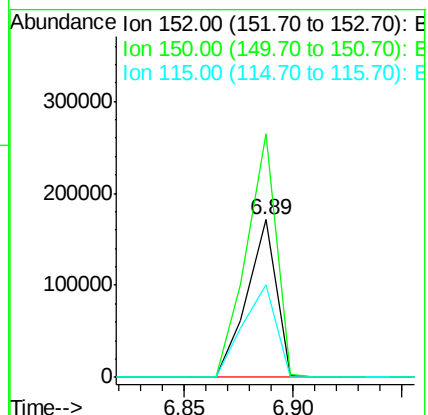
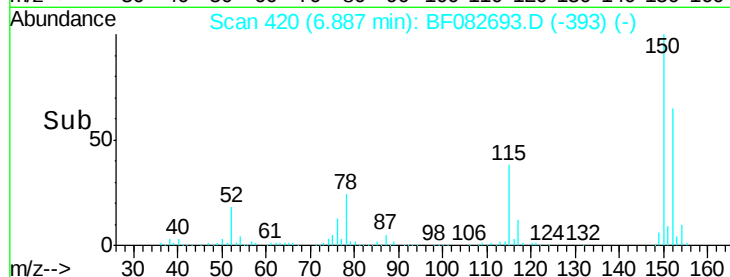
115 58.8 47.0 70.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 55.25 ng

RT: 5.48 min Scan# 297

Delta R.T. 0.01 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

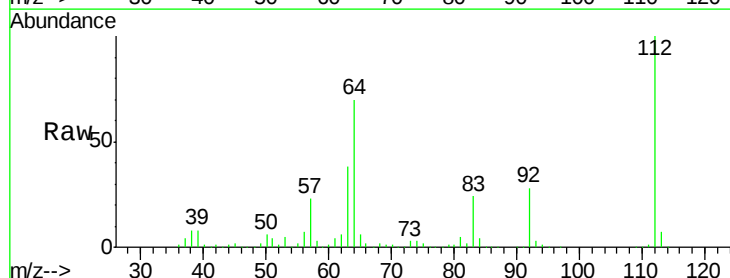
Tgt Ion:112 Resp: 590261

Ion Ratio Lower Upper

112 100

64 69.8 48.9 73.3

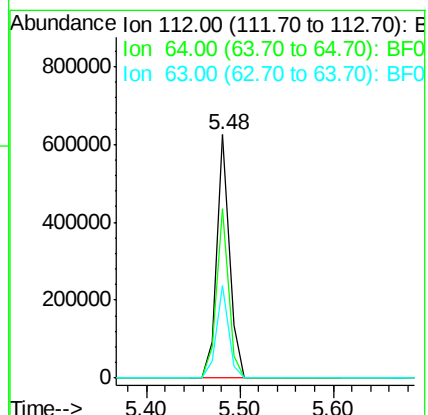
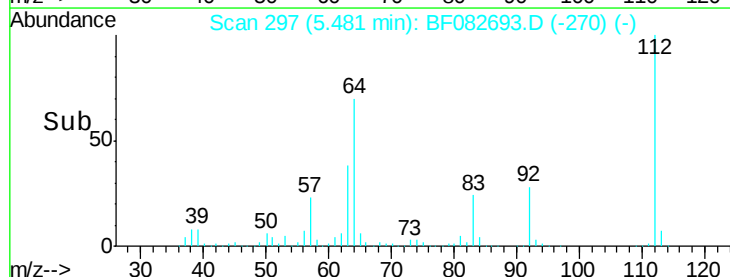
63 38.3 28.1 42.1



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 57.24 ng

RT: 6.51 min Scan# 387

Delta R.T. 0.00 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

Instrument :

BNA_F

ClientSampleID :

WC-SOIL-004DL

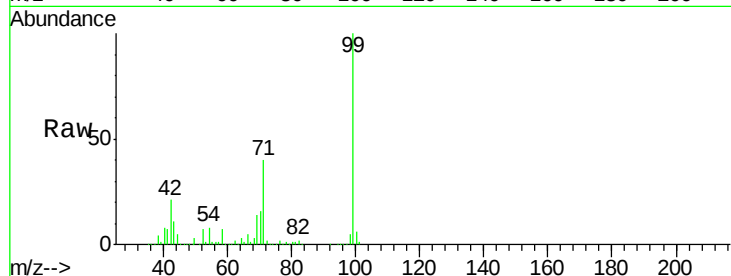
Tot Ion: 99 Resp: 812535

Ion Ratio Lower Upper

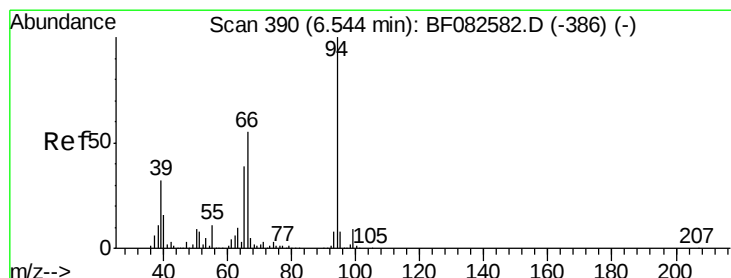
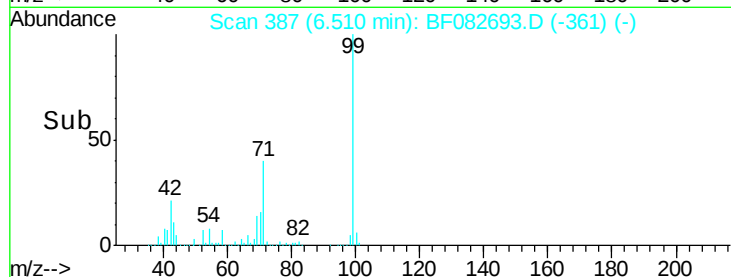
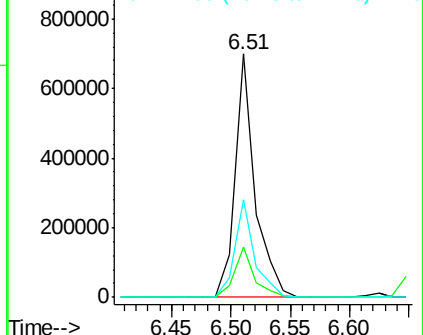
99 100

42 20.7 19.2 28.8

71 40.0 35.0 52.4



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 4.19 ng

RT: 6.52 min Scan# 388

Delta R.T. 0.00 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

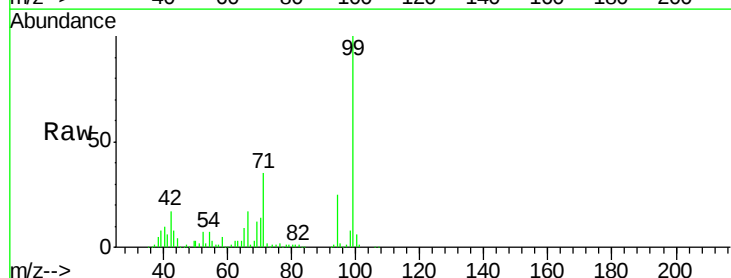
Tgt Ion: 94 Resp: 67435

Ion Ratio Lower Upper

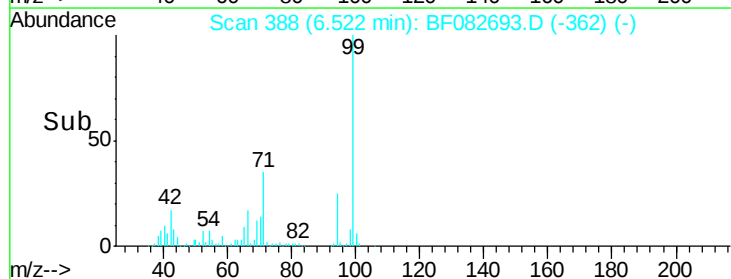
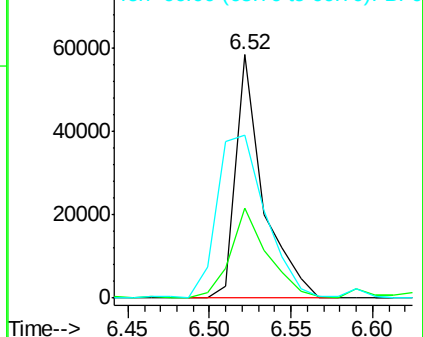
94 100

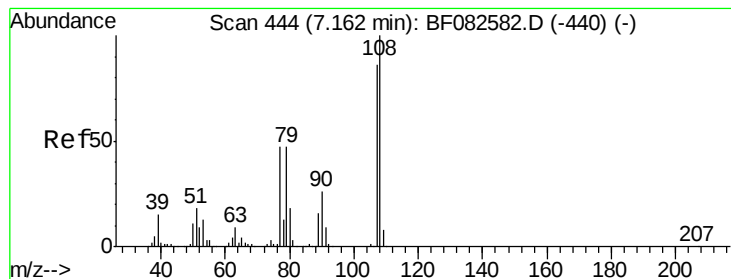
65 37.0 18.9 58.9

66 67.0 34.9 74.9



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0

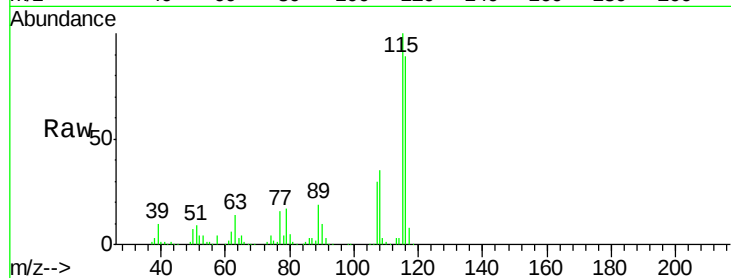




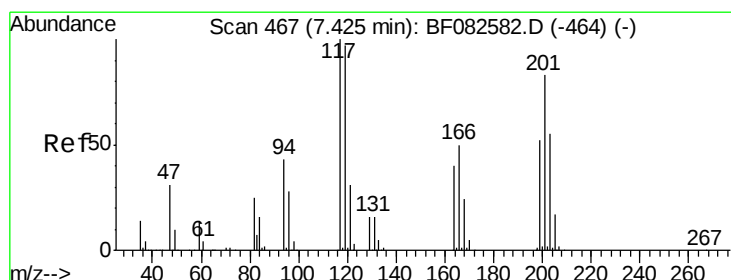
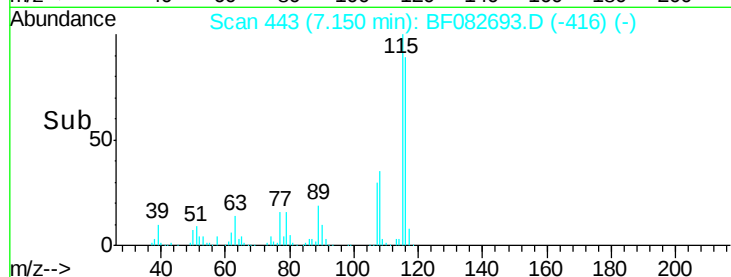
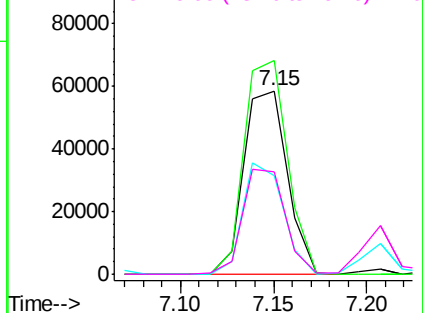
#17
2-Methylphenol
Concen: 9.81 ng
RT: 7.15 min Scan# 443
Delta R.T. 0.01 min
Lab File: BF082693.D
Acq: 4 Nov 2015 9:41

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-004DL

Tot Ion:	107	Resp:	96379
Ion	Ratio	Lower	Upper
107	100		
108	116.5	93.0	139.4
77	53.9	44.1	66.1
79	56.0	43.6	65.4

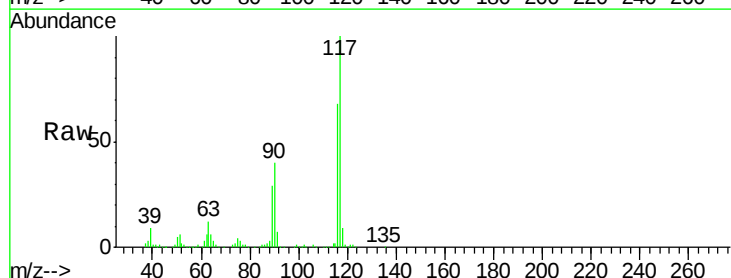


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF0
Ion 79.00 (78.70 to 79.70): BF0

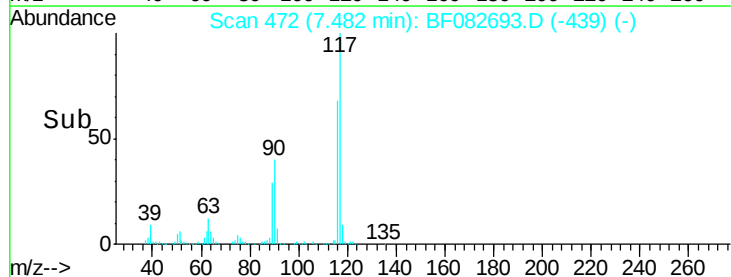
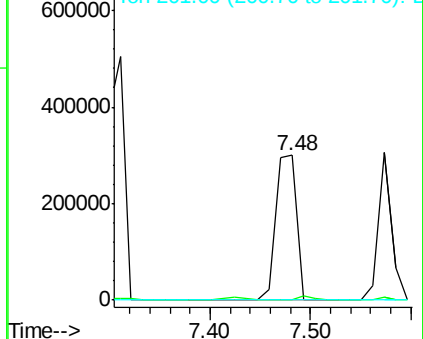


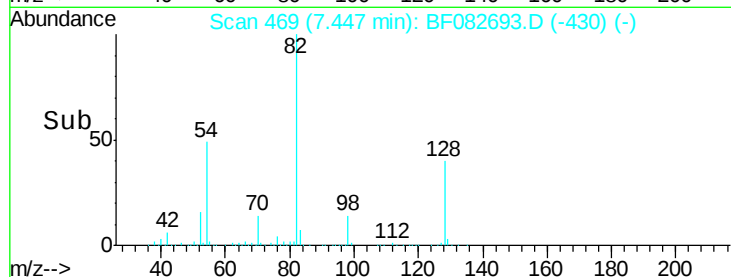
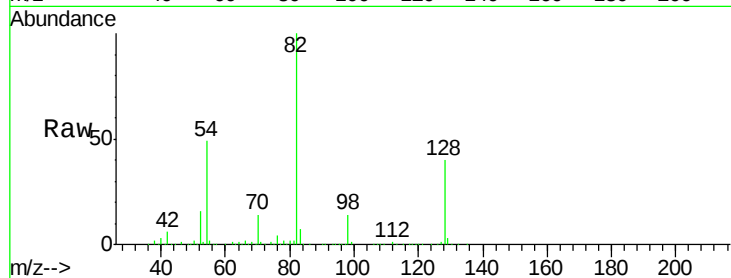
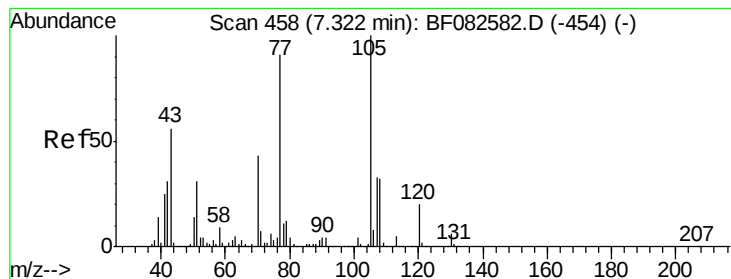
#18
Hexachloroethane
Concen: 84.08 ng
RT: 7.48 min Scan# 472
Delta R.T. 0.08 min
Lab File: BF082693.D
Acq: 4 Nov 2015 9:41

Tgt Ion:	117	Resp:	428980
Ion	Ratio	Lower	Upper
117	100		
119	0.7	77.7	116.5#
201	0.0	66.7	100.1#



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 8.66 ng

RT: 7.45 min Scan# 469

Delta R.T. 0.15 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

Instrument :

BNA_F

ClientSampleID :

WC-SOIL-004DL

Tot Ion: 70 Resp: 93162

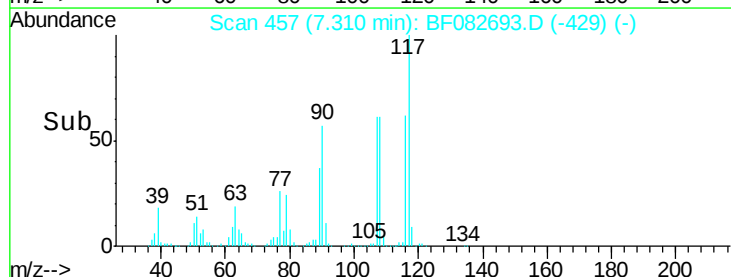
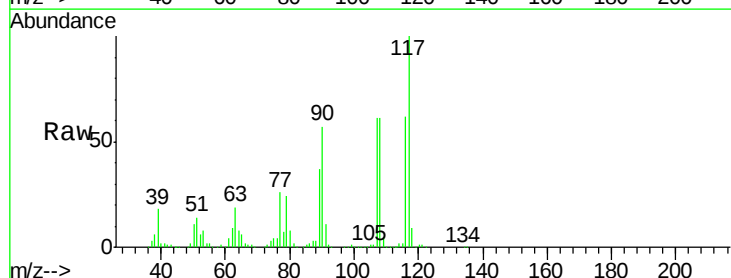
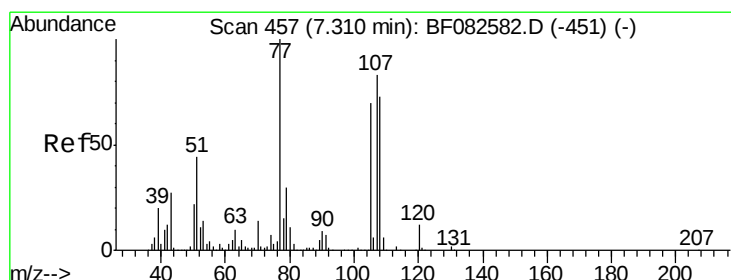
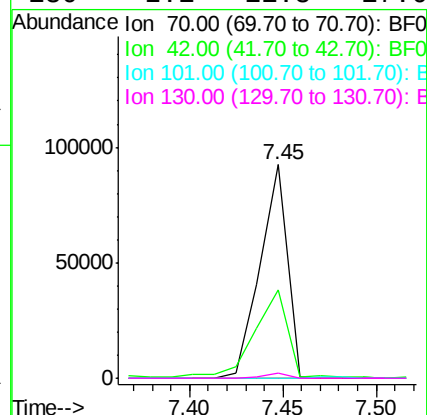
Ion Ratio Lower Upper

70 100

42 41.6 57.7 86.5#

101 0.0 7.0 10.6#

130 2.1 11.8 17.6#



#20

3+4-Methylphenols

Concen: 41.26 ng

RT: 7.31 min Scan# 457

Delta R.T. 0.02 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

Tgt Ion:107 Resp: 527094

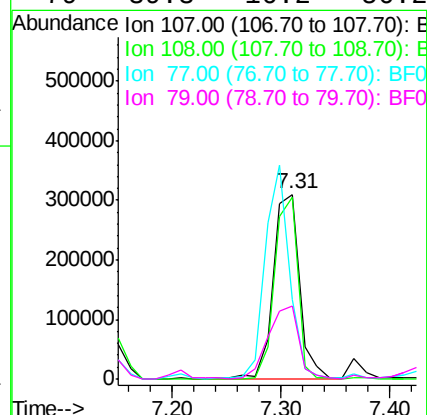
Ion Ratio Lower Upper

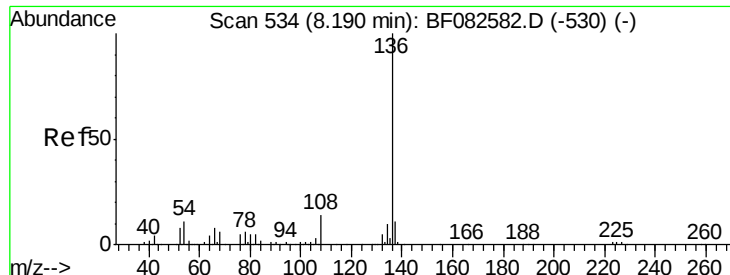
107 100

108 98.6 67.3 107.3

77 43.1 100.3 140.3#

79 39.3 16.2 56.2





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

Delta R.T. 0.01 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

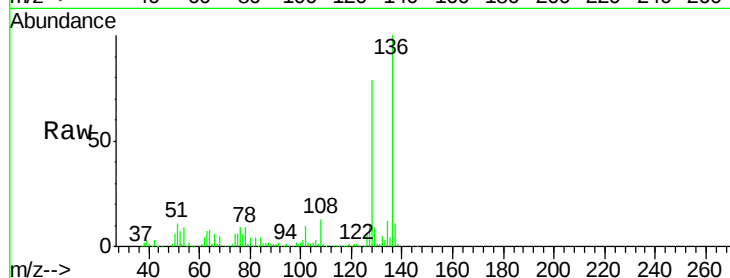
Instrument :

BNA_F

ClientSampleId :

WC-SOIL-004DL

Tot Ion:136	Resp: 588287
Ion Ratio	Lower Upper
136 100	
137 11.1	9.1 13.7
54 8.9	9.1 13.7#
68 5.3	4.8 7.2



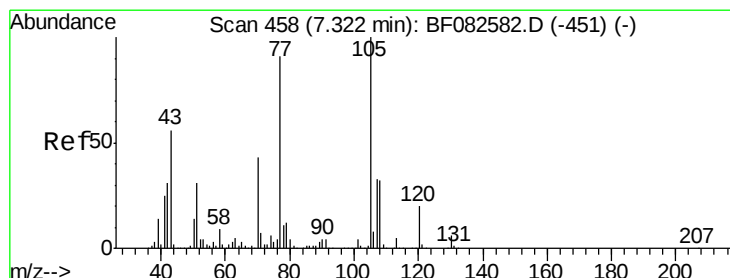
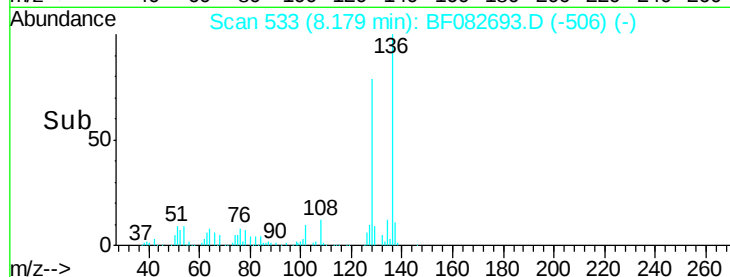
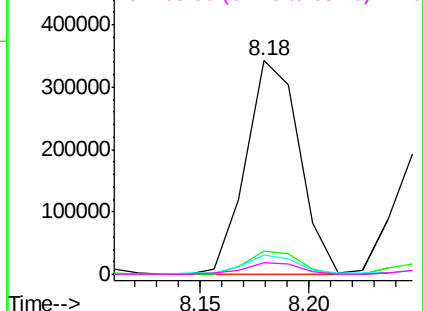
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 22.27 ng

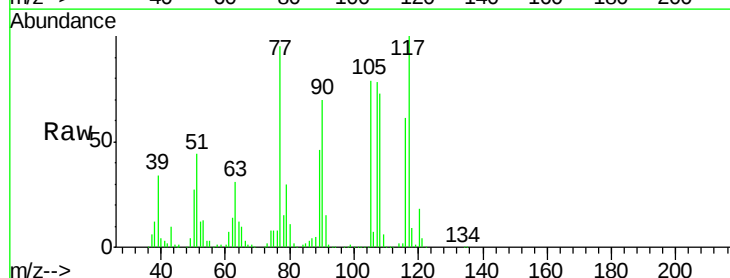
RT: 7.30 min Scan# 456

Delta R.T. 0.01 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

Tgt Ion:105	Resp: 385621
Ion Ratio	Lower Upper
105 100	
71 0.0	5.6 8.4#
51 56.2	24.9 37.3#
120 22.3	15.8 23.8



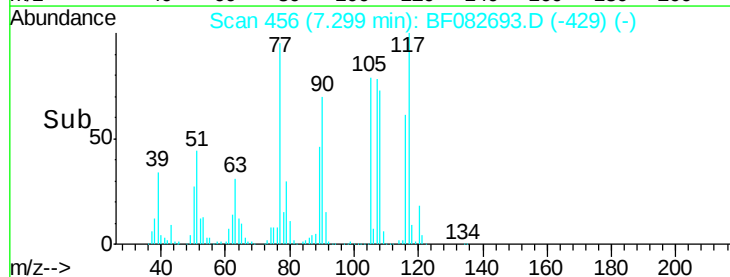
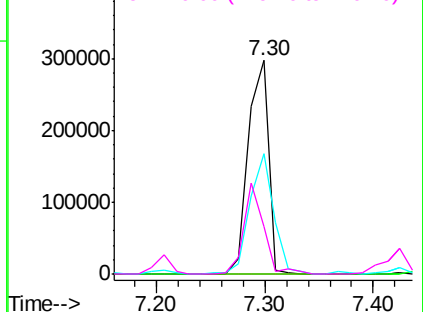
Abundance

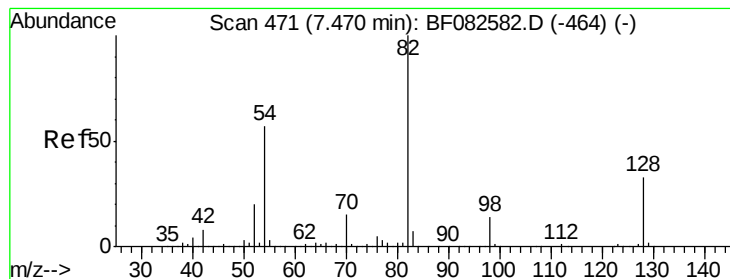
Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E





#23

Nitrobenzene-d5

Concen: 47.10 ng

RT: 7.45 min Scan# 469

Delta R.T. 0.00 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-004DL

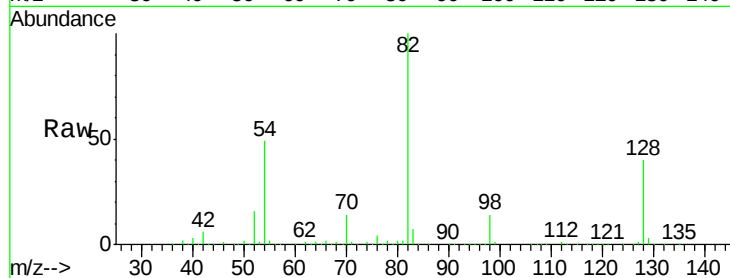
Tot Ion: 82 Resp: 678596

Ion Ratio Lower Upper

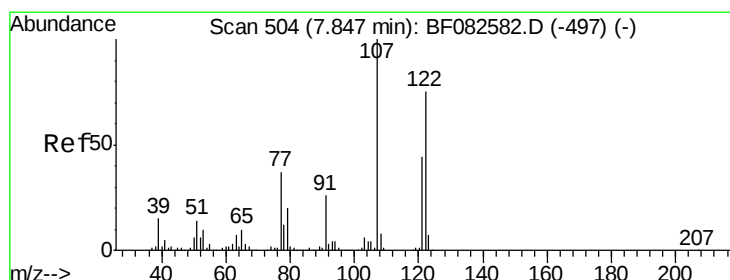
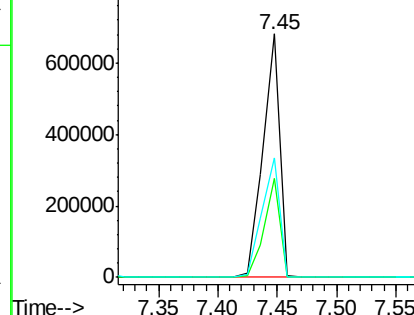
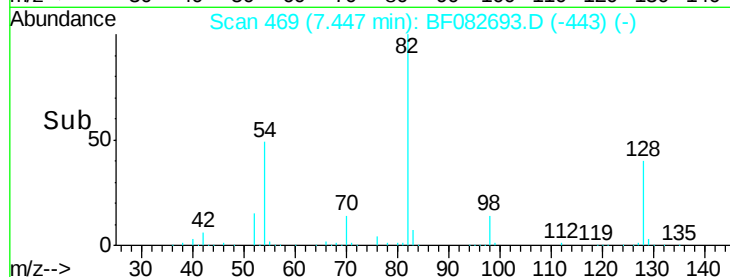
82 100

128 40.5 26.8 40.2#

54 49.0 45.7 68.5



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): B
Ion 54.00 (53.70 to 54.70): BF0



#27

2,4-Dimethylphenol

Concen: 81.24 ng

RT: 7.85 min Scan# 504

Delta R.T. 0.02 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

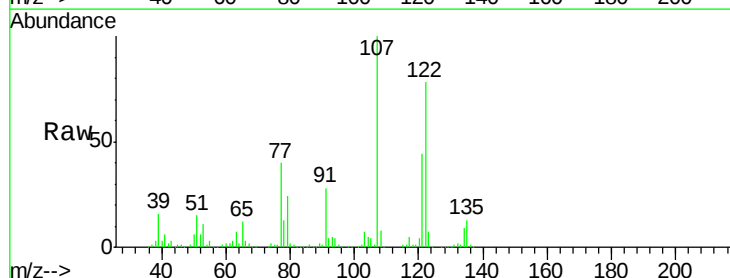
Tgt Ion:122 Resp: 843548

Ion Ratio Lower Upper

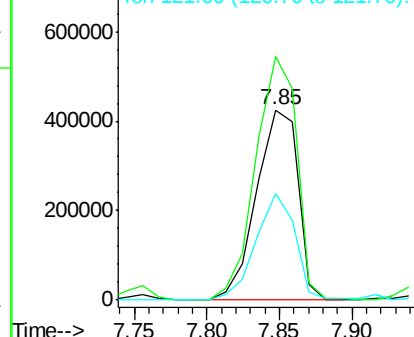
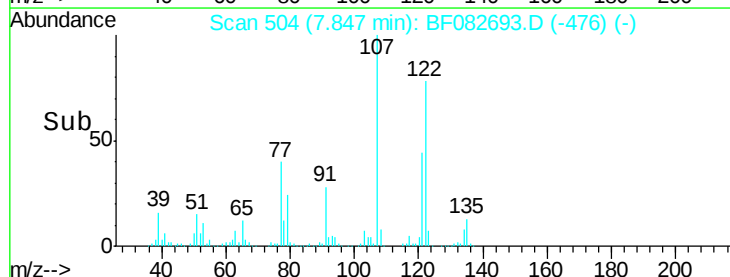
122 100

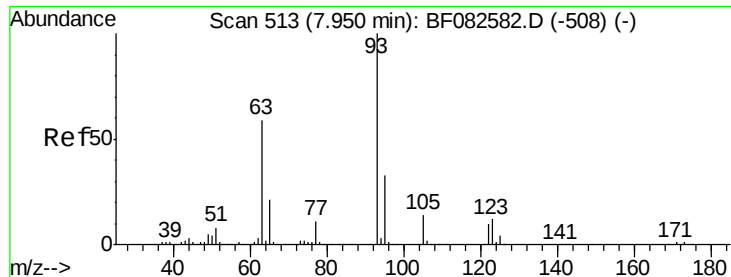
107 128.0 106.0 159.0

121 56.2 46.7 70.1



Abundance Ion 122.00 (121.70 to 122.70): B
Ion 107.00 (106.70 to 107.70): B
Ion 121.00 (120.70 to 121.70): B

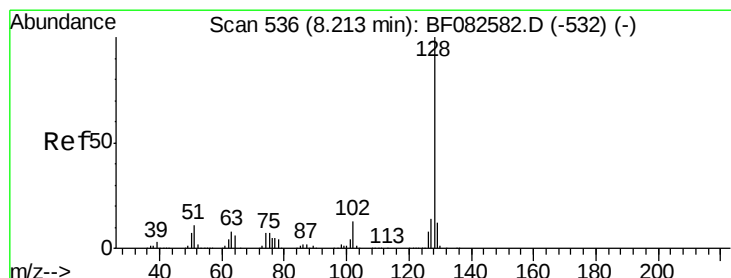
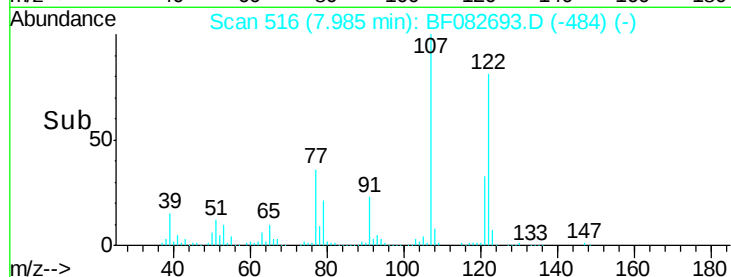
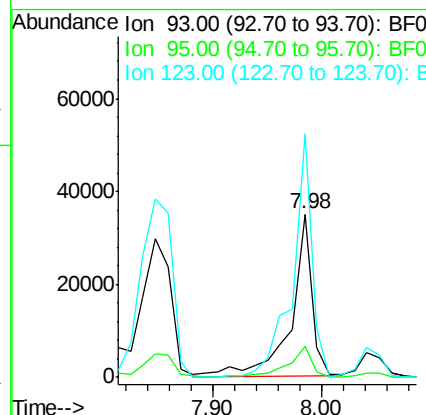
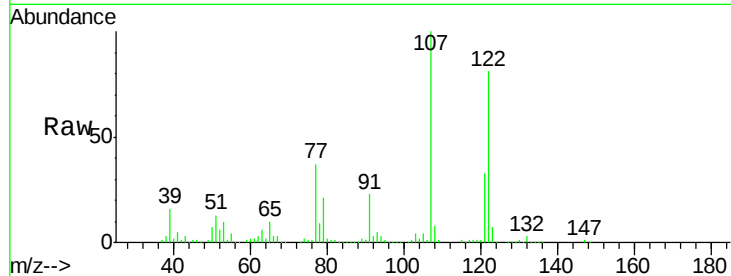




#28
bis(2-Chloroethoxy)methane
Concen: 3.31 ng
RT: 7.98 min Scan# 516
Delta R.T. 0.07 min
Lab File: BF082693.D
Acq: 4 Nov 2015 9:41

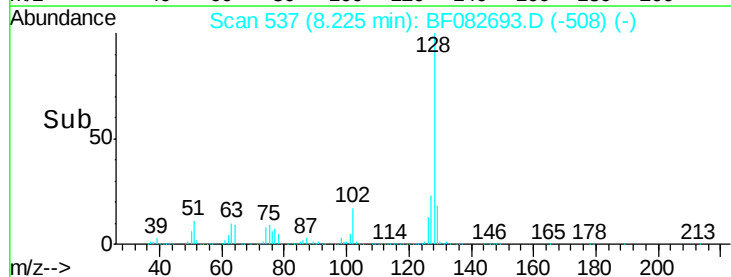
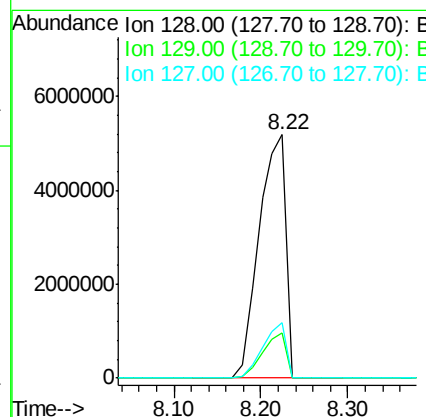
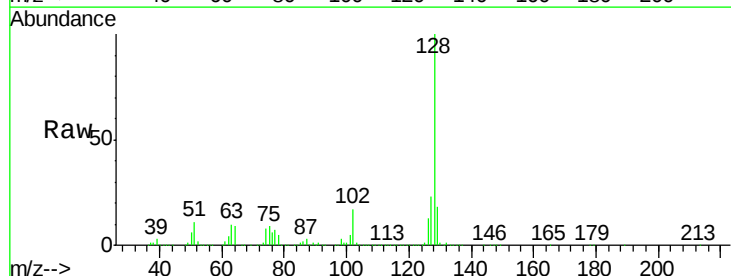
Instrument :
BNA_F
ClientSampleID :
WC-SOIL-004DL

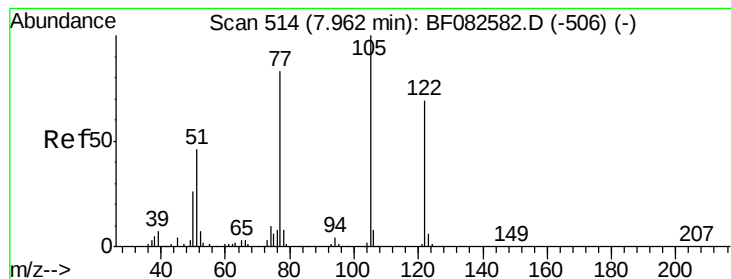
Tot Ion: 93 Resp: 47931
Ion Ratio Lower Upper
93 100
95 18.8 26.6 40.0#
123 149.2 9.7 14.5#



#31
Naphthalene
Concen: 345.03 ng
RT: 8.22 min Scan# 537
Delta R.T. 0.03 min
Lab File: BF082693.D
Acq: 4 Nov 2015 9:41

Tgt Ion:128 Resp:10983257
Ion Ratio Lower Upper
128 100
129 18.4 9.5 14.3#
127 23.0 11.4 17.0#





#32

Benzoic acid

Concen: 99.75 ng

RT: 7.98 min Scan# 516

Delta R.T. 0.05 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

Instrument :

BNA_F

ClientSampleID :

WC-SOIL-004DL

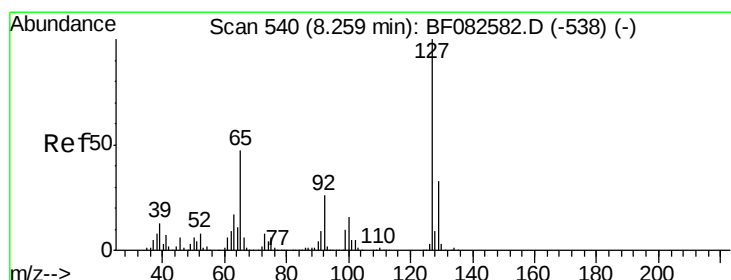
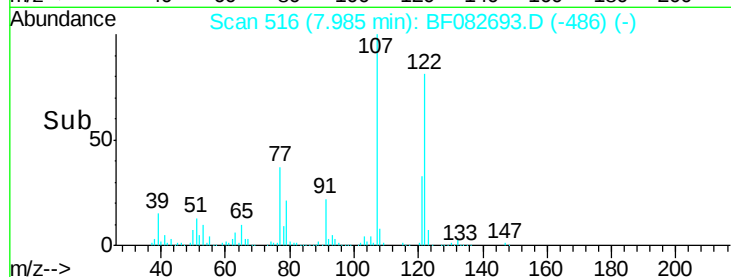
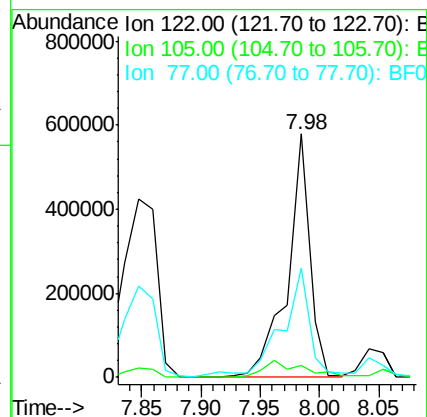
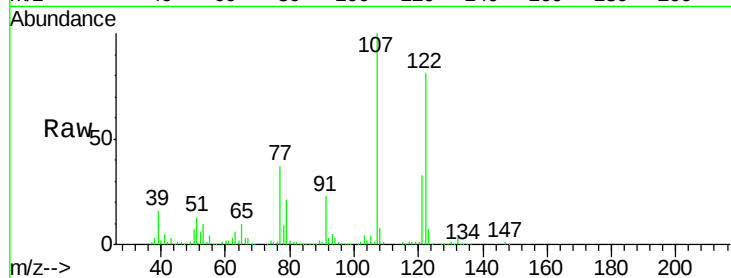
Tot Ion:122 Resp: 751404

Ion Ratio Lower Upper

122 100

105 4.6 122.6 162.6#

77 45.1 100.9 140.9#



#33

4-Chloroaniline

Concen: 158.36 ng

RT: 8.22 min Scan# 537

Delta R.T. -0.01 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

Tgt Ion:127 Resp: 2152209

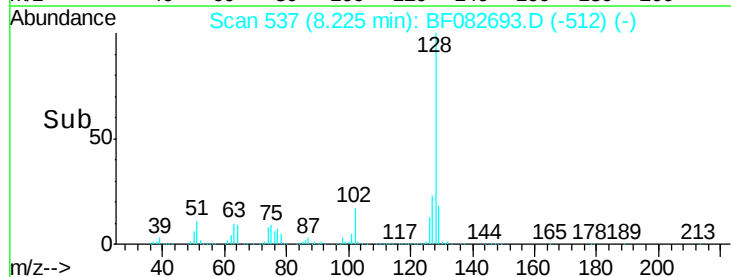
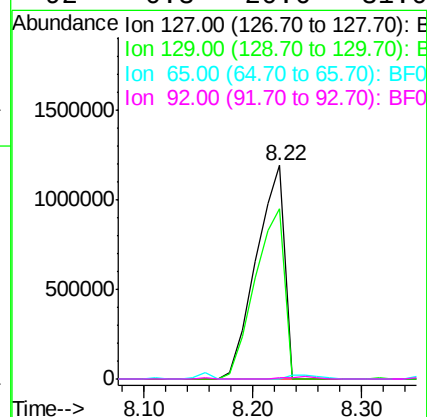
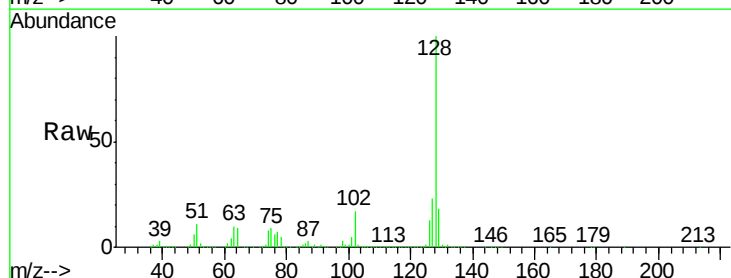
Ion Ratio Lower Upper

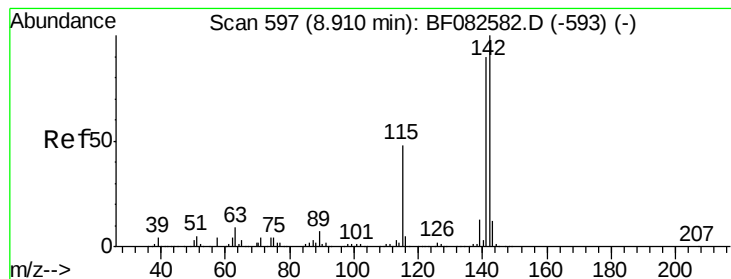
127 100

129 80.0 26.3 39.5#

65 0.0 37.8 56.8#

92 0.3 20.6 31.0#

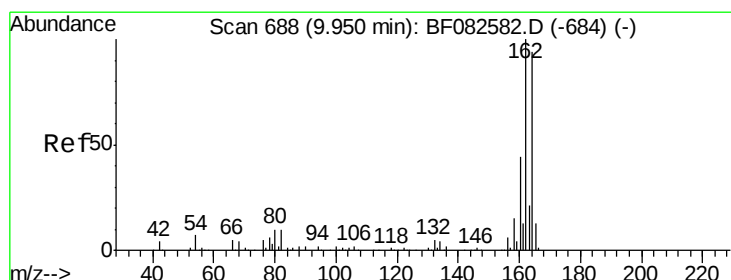
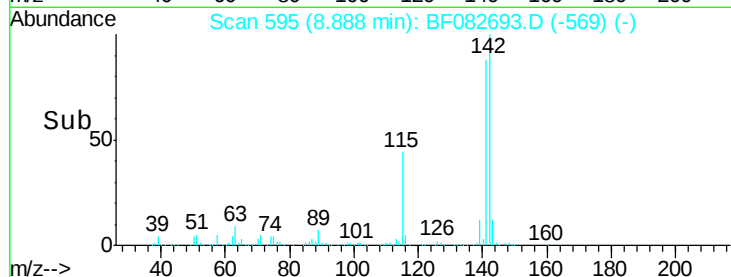
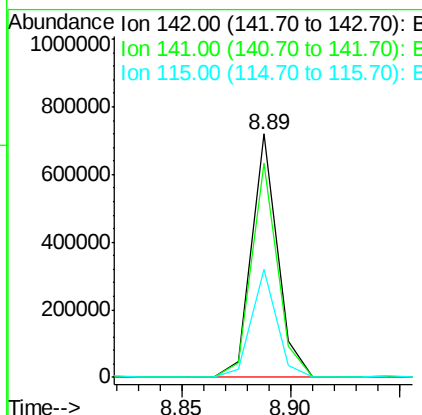
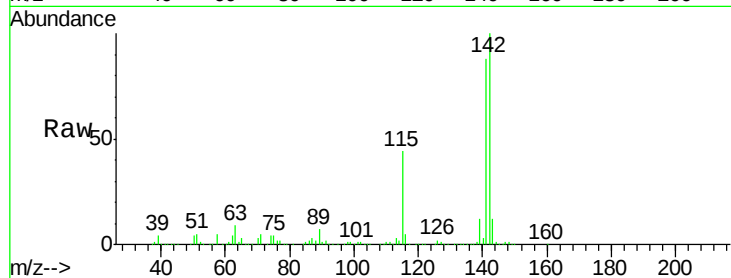




#37
 2-Methylnaphthalene
 Concen: 29.17 ng
 RT: 8.89 min Scan# 595
 Delta R.T. 0.00 min
 Lab File: BF082693.D
 Acq: 4 Nov 2015 9:41

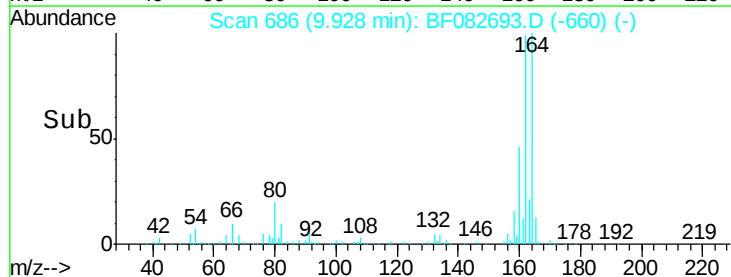
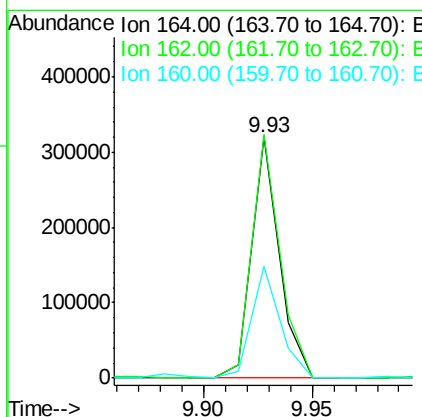
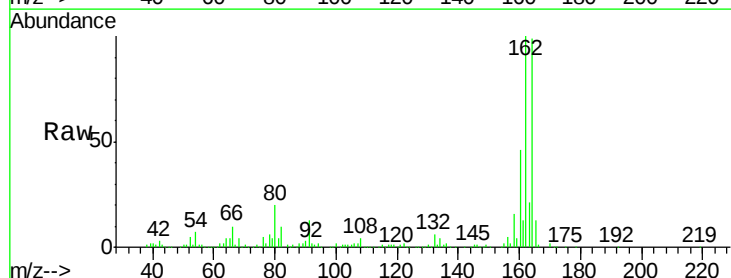
Instrument :
 BNA_F
 ClientSampleID :
 WC-SOIL-004DL

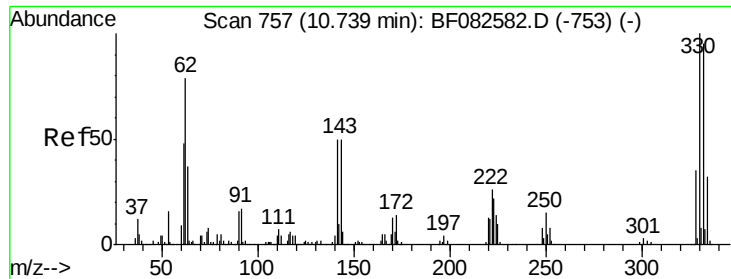
Tot Ion:142 Resp: 601717
 Ion Ratio Lower Upper
 142 100
 141 88.1 72.3 108.5
 115 44.1 38.1 57.1



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.93 min Scan# 686
 Delta R.T. 0.00 min
 Lab File: BF082693.D
 Acq: 4 Nov 2015 9:41

Tgt Ion:164 Resp: 282338
 Ion Ratio Lower Upper
 164 100
 162 101.2 84.9 127.3
 160 46.6 37.5 56.3

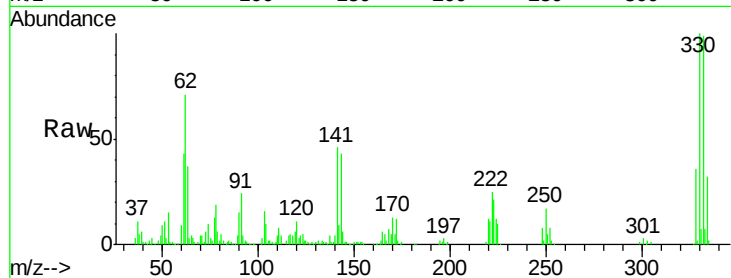




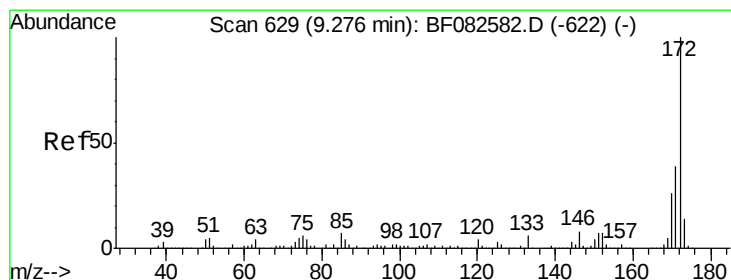
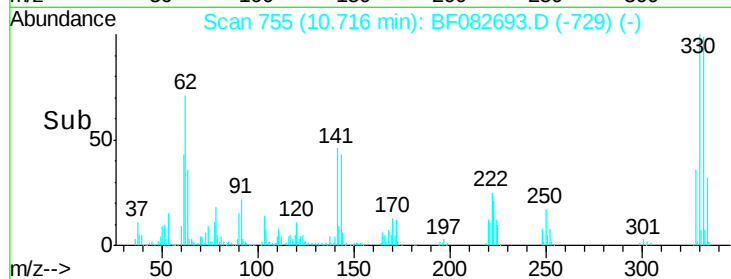
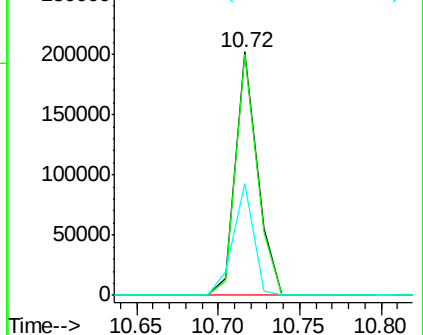
#41
 2,4,6-Tribromophenol
 Concen: 60.61 ng
 RT: 10.72 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: BF082693.D
 Acq: 4 Nov 2015 9:41

Instrument :
 BNA_F
 ClientSampleId :
 WC-SOIL-004DL

Tot Ion:330 Resp: 187282
 Ion Ratio Lower Upper
 330 100
 332 97.6 76.6 114.8
 141 42.6 41.2 61.8

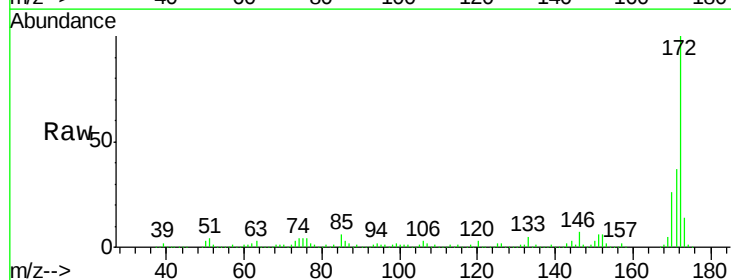


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

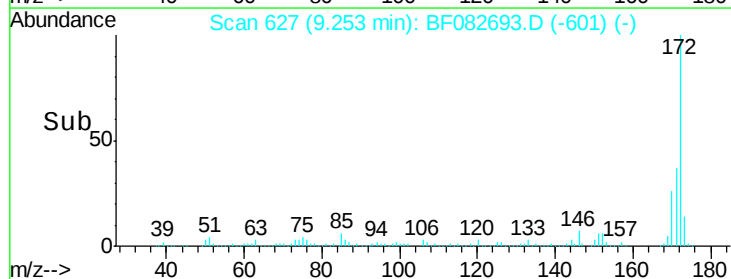
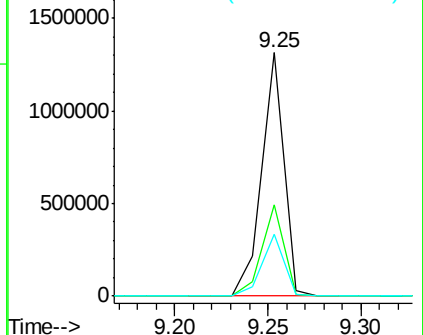


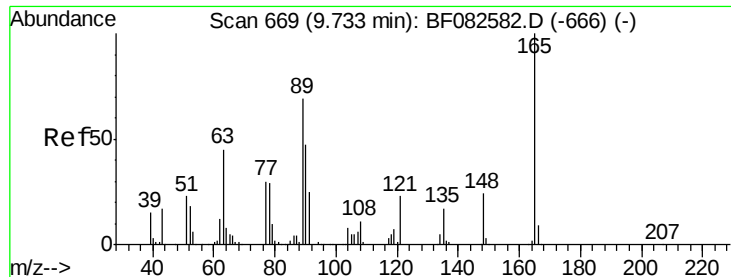
#44
 2-Fluorobiphenyl
 Concen: 53.97 ng
 RT: 9.25 min Scan# 627
 Delta R.T. 0.00 min
 Lab File: BF082693.D
 Acq: 4 Nov 2015 9:41

Tgt Ion:172 Resp: 1073191
 Ion Ratio Lower Upper
 172 100
 171 37.3 30.8 46.2
 170 25.6 21.2 31.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

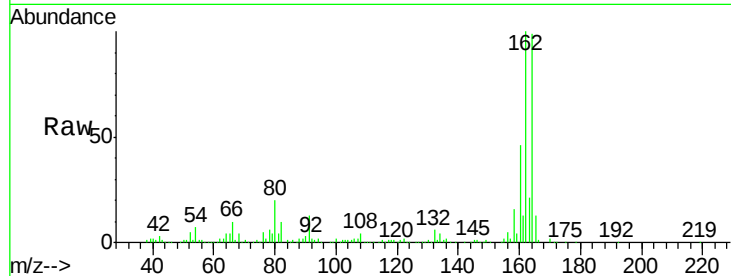




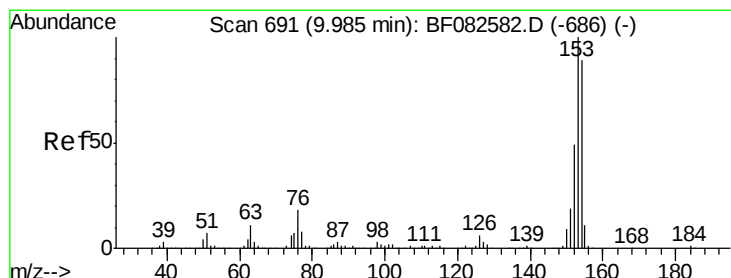
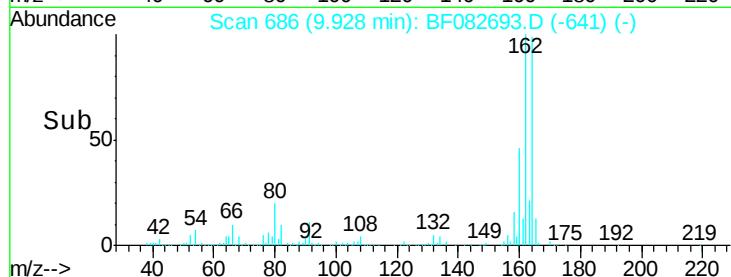
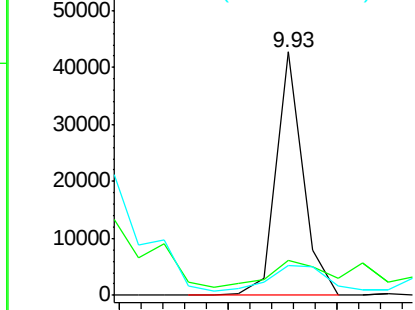
#50
 2,6-Dinitrotoluene
 Concen: 7.77 ng
 RT: 9.93 min Scan# 686
 Delta R.T. 0.22 min
 Lab File: BF082693.D
 Acq: 4 Nov 2015 9:41

Instrument :
 BNA_F
 ClientSampleId :
 WC-SOIL-004DL

Tot Ion:165 Resp: 37153
 Ion Ratio Lower Upper
 165 100
 63 14.1 55.5 83.3#
 89 12.1 55.0 82.6#

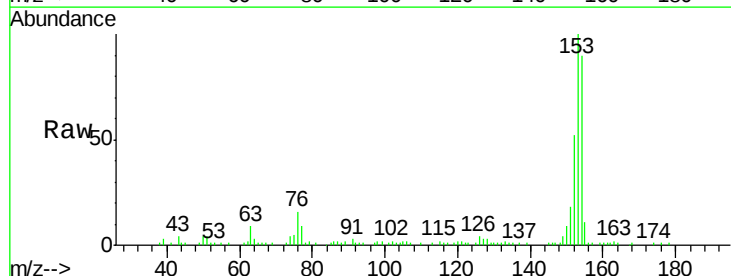


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

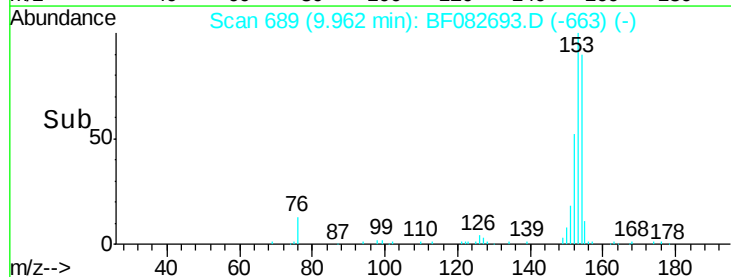
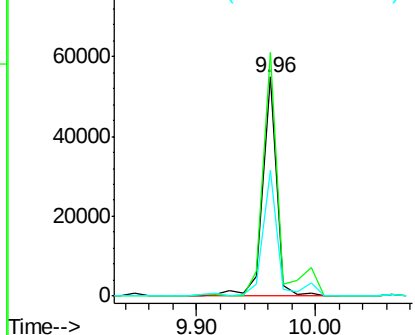


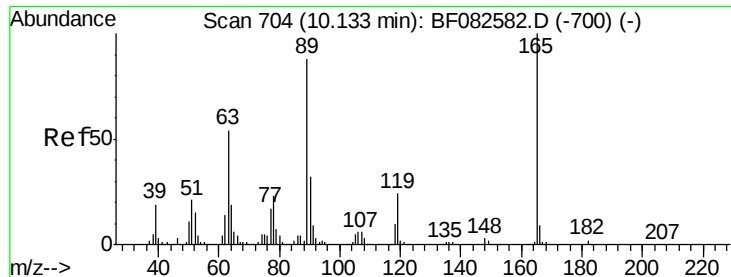
#51
 Acenaphthene
 Concen: 2.39 ng
 RT: 9.96 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: BF082693.D
 Acq: 4 Nov 2015 9:41

Tgt Ion:154 Resp: 45224
 Ion Ratio Lower Upper
 154 100
 153 111.1 90.1 135.1
 152 57.3 44.3 66.5



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E

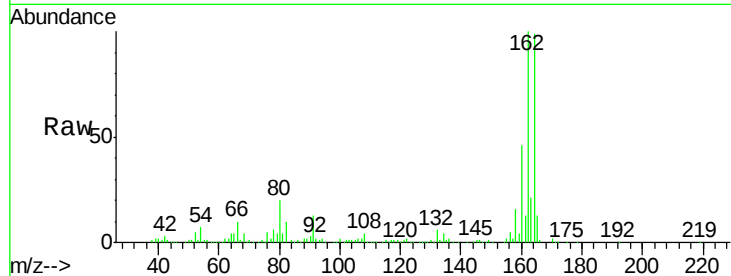




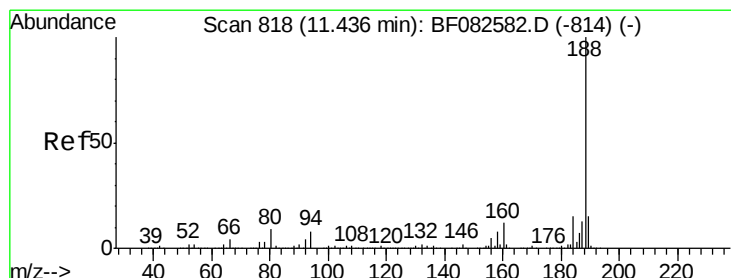
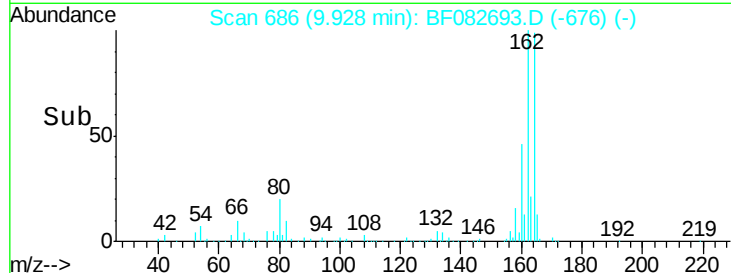
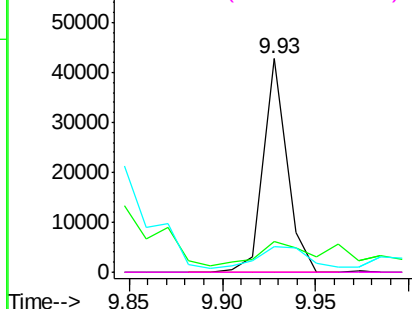
#56
 2,4-Dinitrotoluene
 Concen: 5.75 ng
 RT: 9.93 min Scan# 686
 Delta R.T. -0.18 min
 Lab File: BF082693.D
 Acq: 4 Nov 2015 9:41

Instrument :
 BNA_F
 ClientSampleId :
 WC-SOIL-004DL

Tot Ion:165 Resp: 37155
 Ion Ratio Lower Upper
 165 100
 63 14.1 43.4 65.0#
 89 12.1 70.6 106.0#
 182 0.0 1.5 2.3#

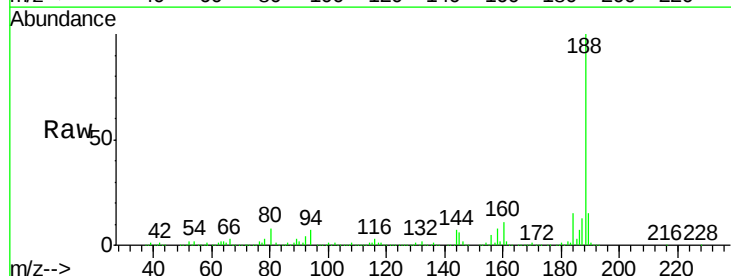


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0
 Ion 182.00 (181.70 to 182.70): E

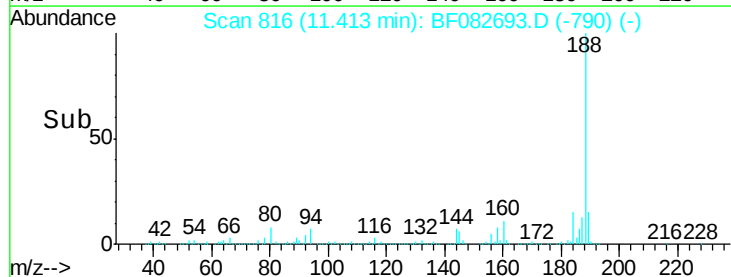
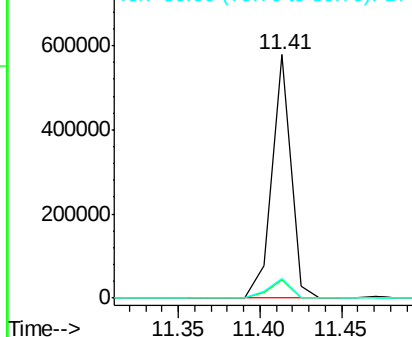


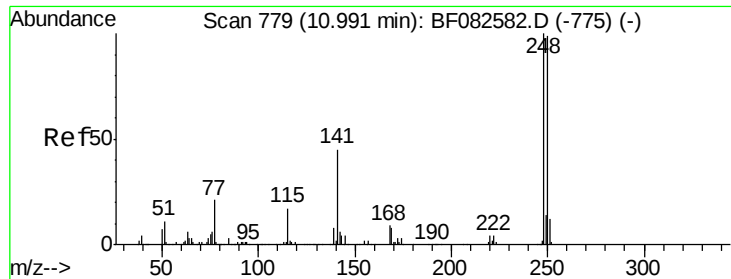
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.41 min Scan# 816
 Delta R.T. 0.00 min
 Lab File: BF082693.D
 Acq: 4 Nov 2015 9:41

Tgt Ion:188 Resp: 471313
 Ion Ratio Lower Upper
 188 100
 94 7.3 6.1 9.1
 80 8.1 7.0 10.6



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

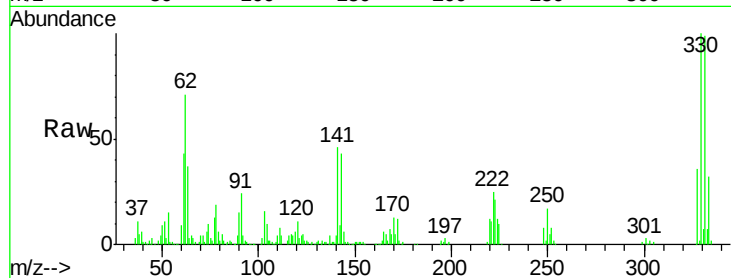




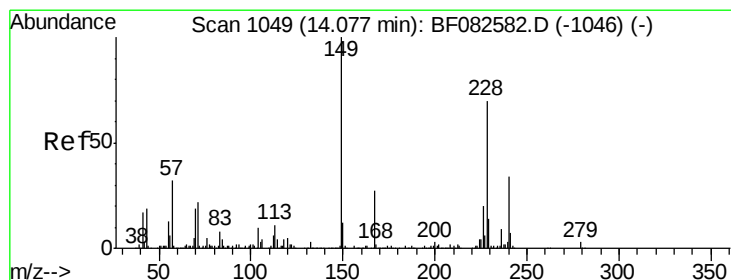
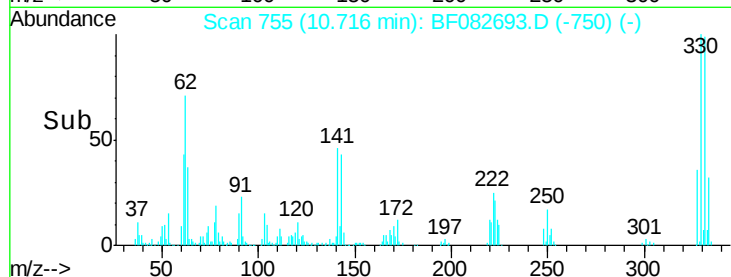
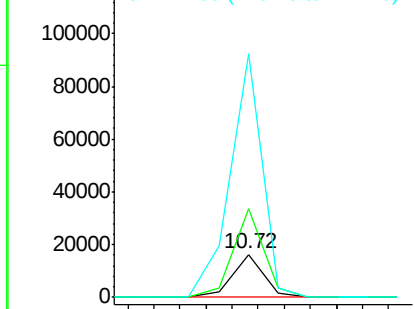
#66
4-Bromophenyl-phenylether
Concen: 2.57 ng
RT: 10.72 min Scan# 755
Delta R.T. -0.24 min
Lab File: BF082693.D
Acq: 4 Nov 2015 9:41

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-004DL

Tot Ion:248 Resp: 13741
Ion Ratio Lower Upper
248 100
250 205.4 79.4 119.2#
141 565.1 36.3 54.5#

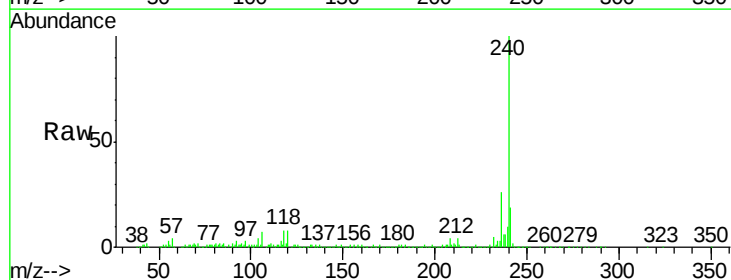


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

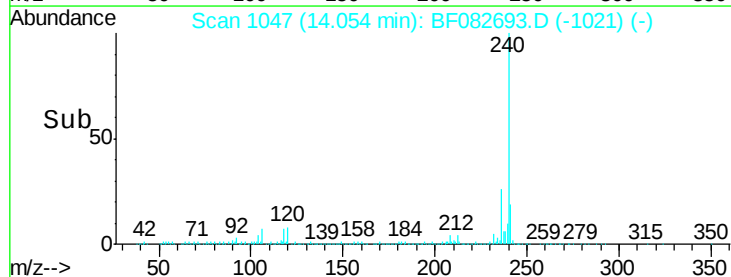
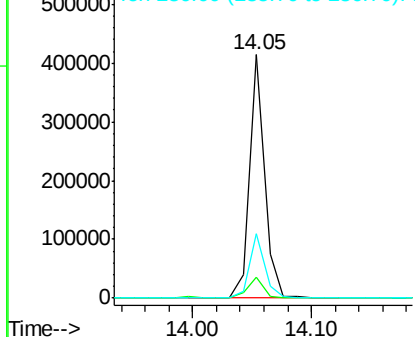


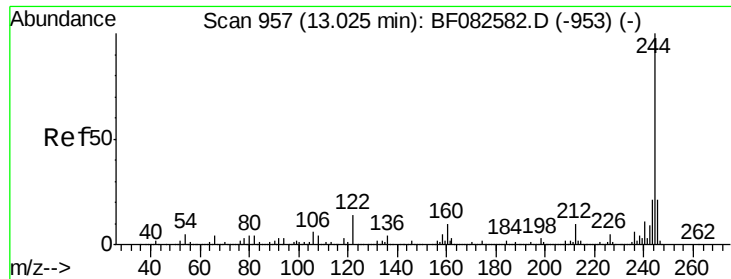
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.05 min Scan# 1047
Delta R.T. 0.00 min
Lab File: BF082693.D
Acq: 4 Nov 2015 9:41

Tgt Ion:240 Resp: 368706
Ion Ratio Lower Upper
240 100
120 8.4 10.9 16.3#
236 26.2 21.6 32.4



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 40.32 ng

RT: 13.00 min Scan# 955

Delta R.T. 0.00 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

Instrument :

BNA_F

ClientSampleID :

WC-SOIL-004DL

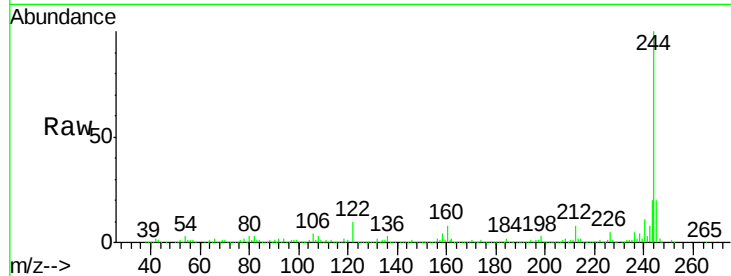
Tot Ion:244 Resp: 679232

Ion Ratio Lower Upper

244 100

212 8.1 7.6 11.4

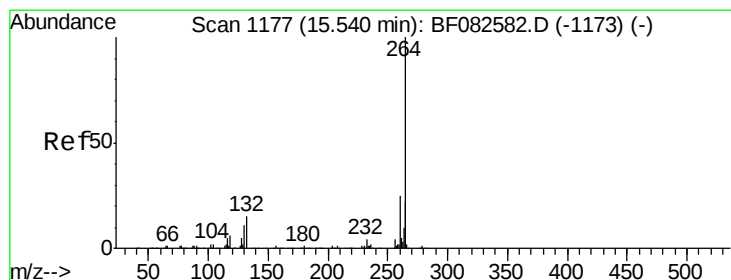
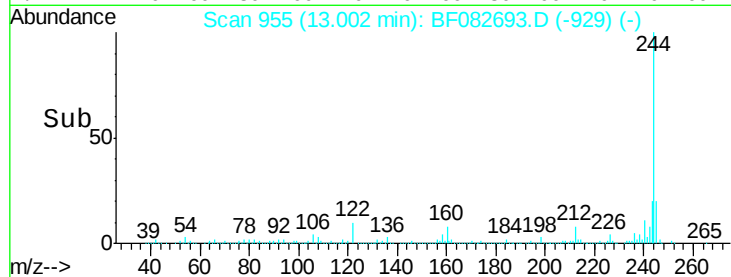
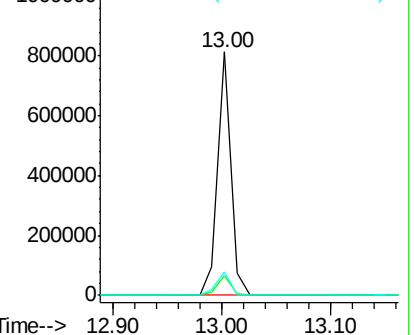
122 9.8 11.3 16.9#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.52 min Scan# 1175

Delta R.T. 0.01 min

Lab File: BF082693.D

Acq: 4 Nov 2015 9:41

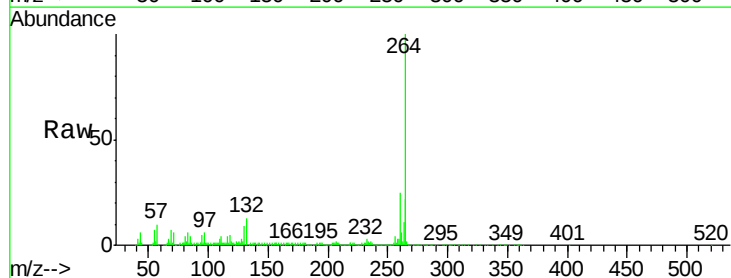
Tgt Ion:264 Resp: 357547

Ion Ratio Lower Upper

264 100

260 24.6 19.8 29.6

265 21.9 17.4 26.0



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

