

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110315\
 Data File : BF082662.D
 Acq On : 3 Nov 2015 15:56
 Operator : UM/IZ
 Sample : G4236-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-SOIL-001

Quant Time: Nov 04 03:13:06 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	6.88	152	182013	20.00	ng	0.00
21) Naphthalene-d8	8.19	136	585054	20.00	ng	0.02
38) Acenaphthene-d10	9.92	164	349978	20.00	ng	-0.01
63) Phenanthrene-d10	11.40	188	657705	20.00	ng	-0.01
75) Chrysene-d12	14.05	240	570200	20.00	ng	0.00
86) Perylene-d12	15.52	264	433695	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	1442120	119.33	ng	0.02
7) Phenol-d6	6.51	99	1561569	97.27	ng	0.00
23) Nitrobenzene-d5	7.45	82	1512839	105.59	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	596646	155.78	ng	0.00
44) 2-Fluorobiphenyl	9.25	172	2363987	95.90	ng	0.00
78) Terphenyl-d14	13.00	244	2190510	84.07	ng	0.00

Target Compounds

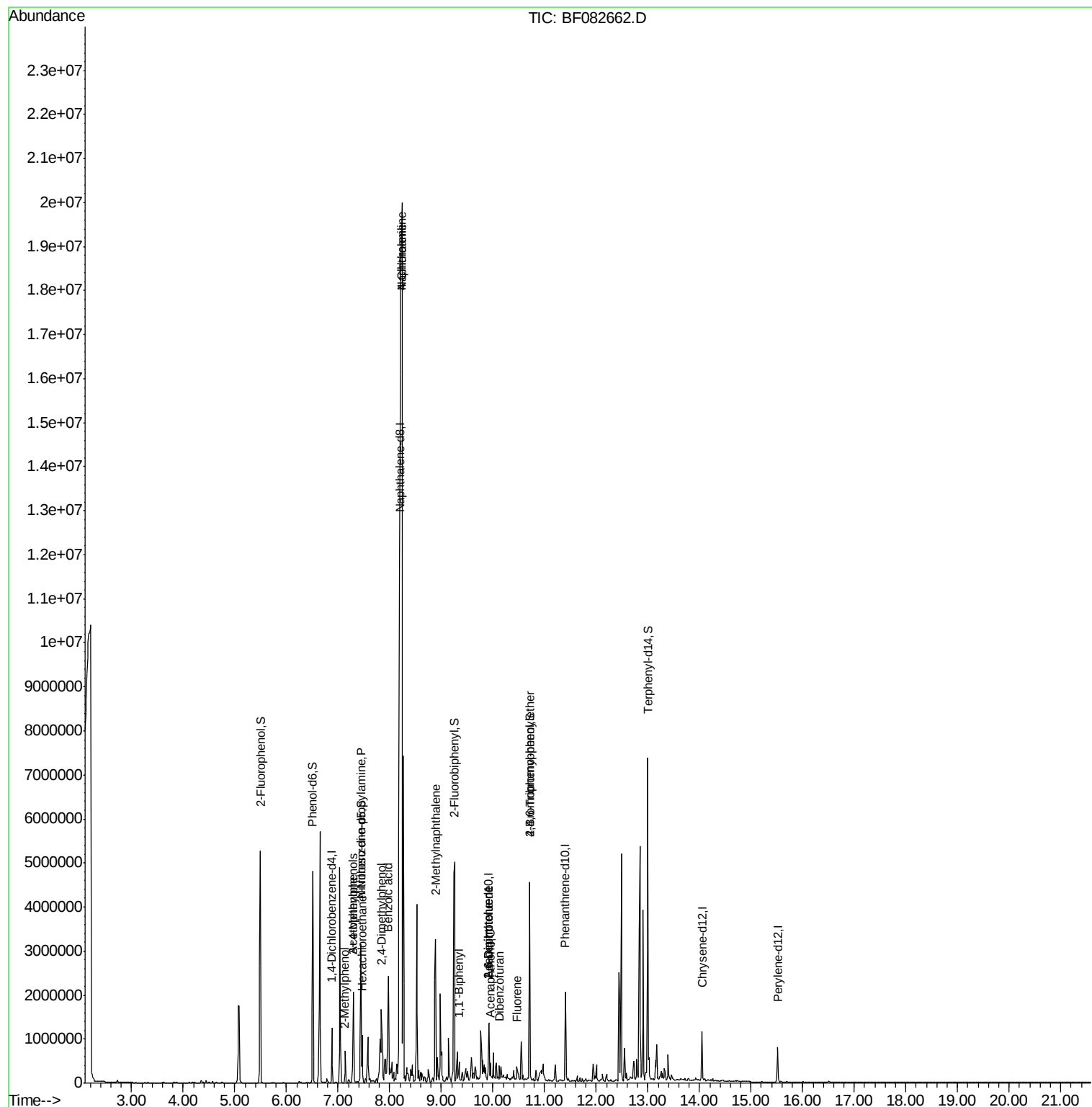
						Qvalue
17) 2-Methylphenol	7.13	107	40903	3.68	ng	96
18) Hexachloroethane	7.47	117	273235	47.35	ng	# 4
19) n-Nitroso-di-n-propylamine	7.45	70	211293	17.36	ng	# 65
20) 3+4-Methylphenols	7.29	107	219911	15.22	ng	95
22) Acetophenone	7.29	105	149873	8.70	ng	# 58
27) 2,4-Dimethylphenol	7.84	122	454088	43.97	ng	97
31) Naphthalene	8.24	128	19533948	617.04	ng	# 68
32) Benzoic acid	7.97	122	475271	63.44	ng	# 8
33) 4-Chloroaniline	8.24	127	4711934	348.63	ng	# 29
37) 2-Methylnaphthalene	8.89	142	1139320	55.53	ng	95
45) 1,1'-Biphenyl	9.34	154	84262	2.85	ng	96
50) 2,6-Dinitrotoluene	9.92	165	46403	7.83	ng	# 27
51) Acenaphthene	9.95	154	90407	3.86	ng	99
54) Dibenzofuran	10.12	168	90845	2.86	ng	93
56) 2,4-Dinitrotoluene	9.92	165	46404	5.79	ng	# 25
57) Fluorene	10.46	166	77090	3.00	ng	# 81
66) 4-Bromophenyl-phenylether	10.72	248	40574	5.44	ng	# 1

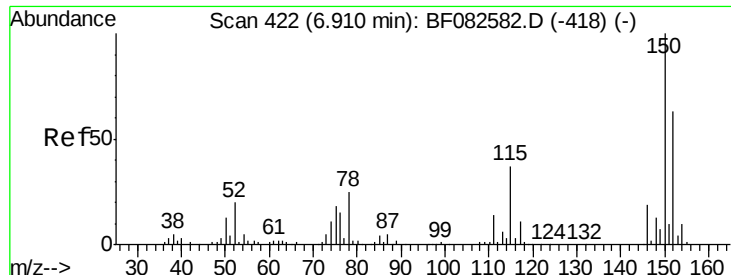
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110315\
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.88 min Scan# 419

Delta R.T. 0.00 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-001

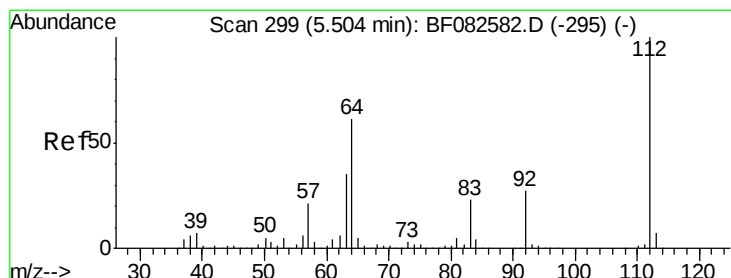
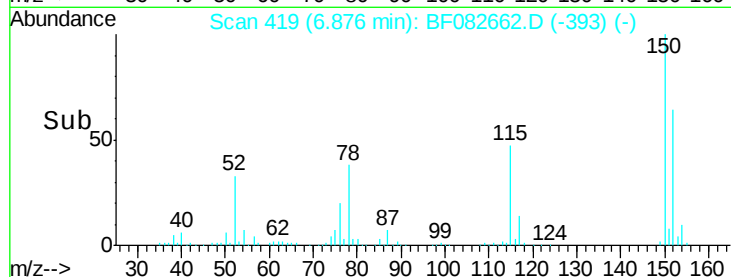
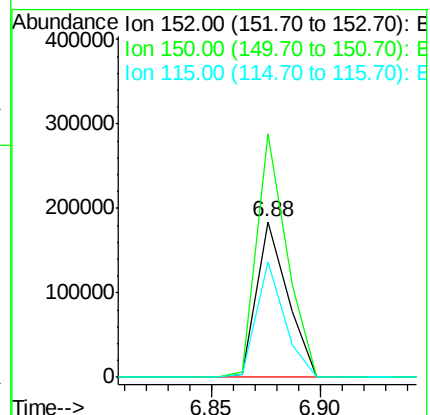
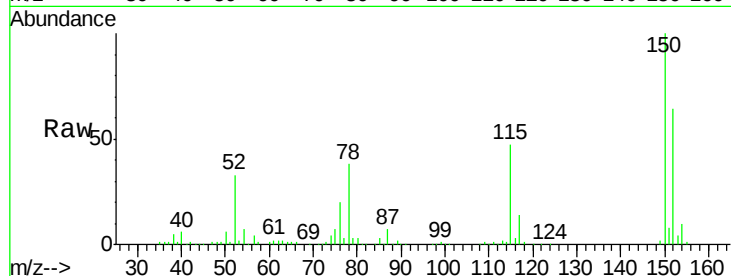
Tgt Ion:152 Resp: 182013

Ion Ratio Lower Upper

152 100

150 156.2 127.0 190.4

115 74.0 47.0 70.6#



#5

2-Fluorophenol

Concen: 119.33 ng

RT: 5.49 min Scan# 298

Delta R.T. 0.02 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

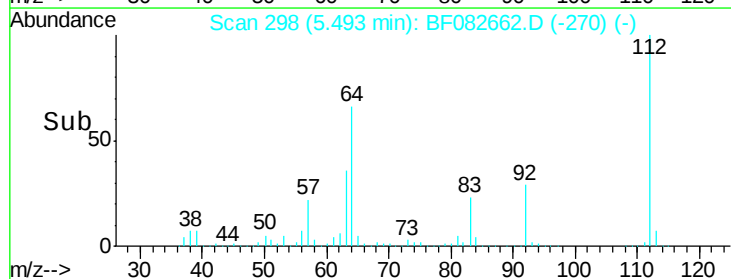
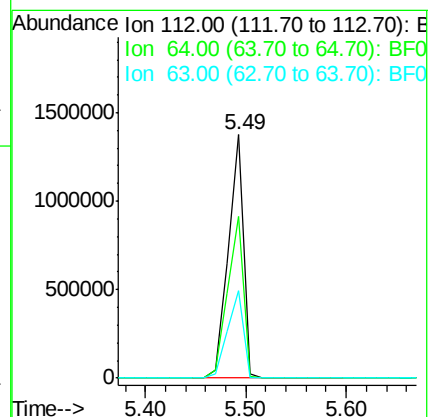
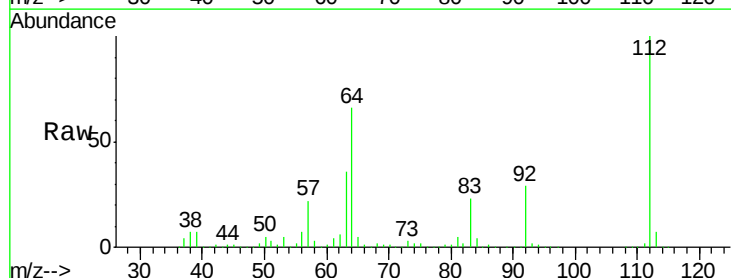
Tgt Ion:112 Resp: 1442120

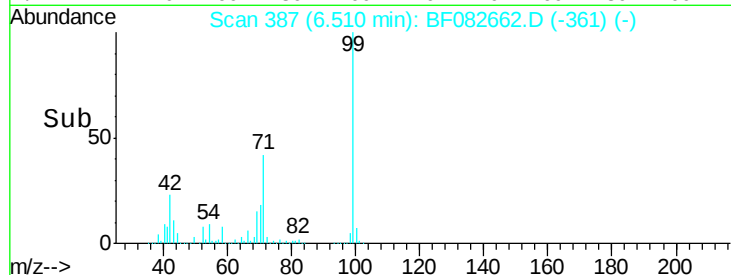
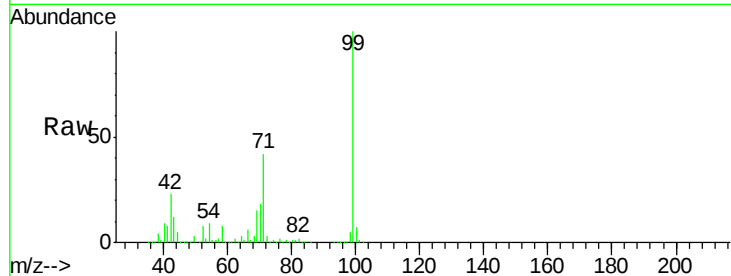
Ion Ratio Lower Upper

112 100

64 66.3 48.9 73.3

63 35.8 28.1 42.1





#7

Phenol-d6

Concen: 97.27 ng

RT: 6.51 min Scan# 387

Delta R.T. 0.00 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-001

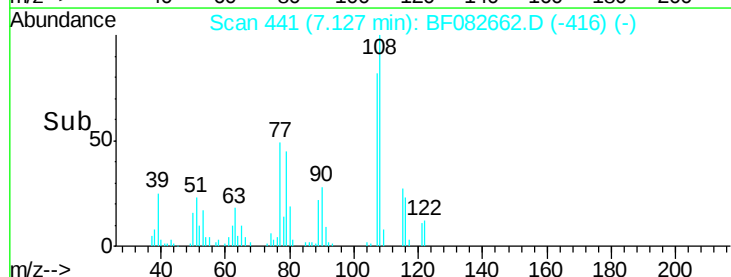
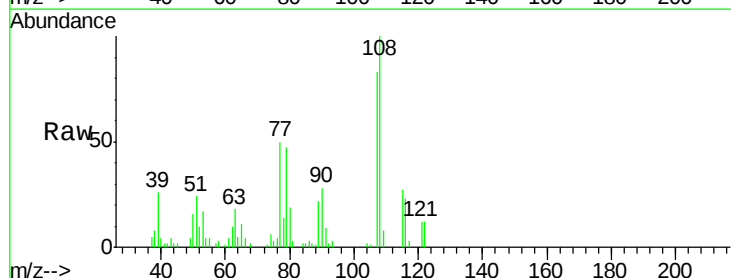
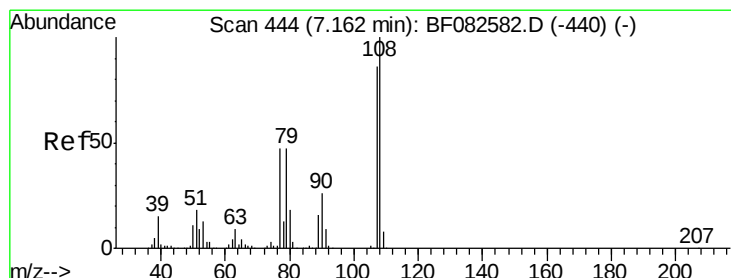
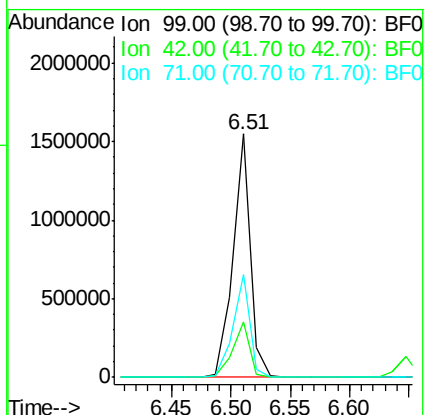
Tgt Ion: 99 Resp: 1561569

Ion Ratio Lower Upper

99 100

42 22.7 19.2 28.8

71 42.1 35.0 52.4



#17

2-Methylphenol

Concen: 3.68 ng

RT: 7.13 min Scan# 441

Delta R.T. -0.01 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

Tgt Ion: 107 Resp: 40903

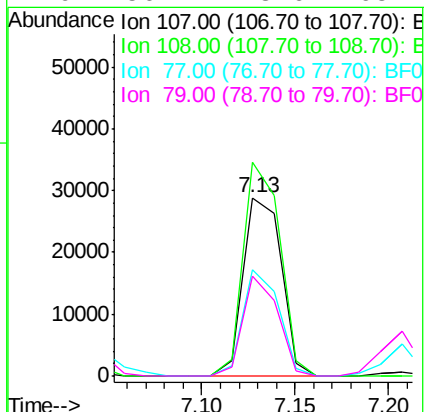
Ion Ratio Lower Upper

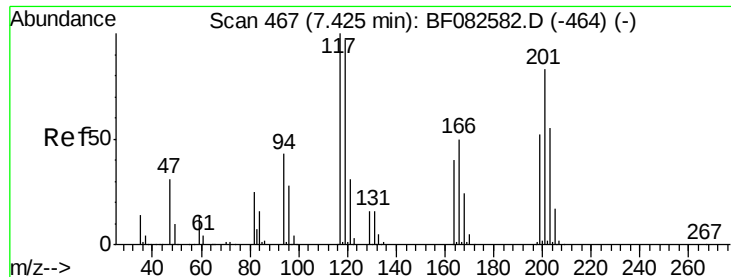
107 100

108 120.0 93.0 139.4

77 59.8 44.1 66.1

79 56.2 43.6 65.4

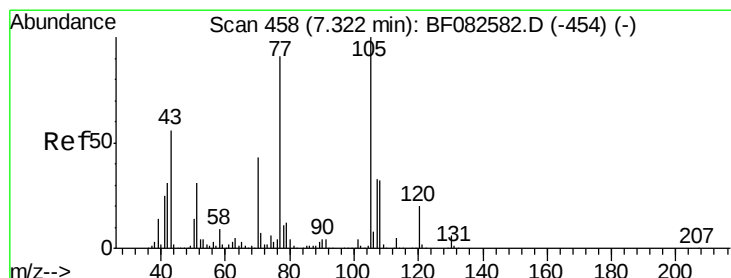
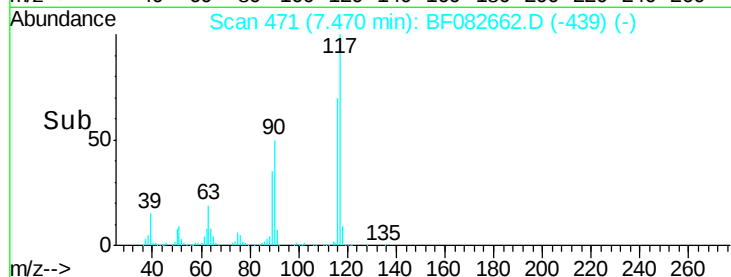
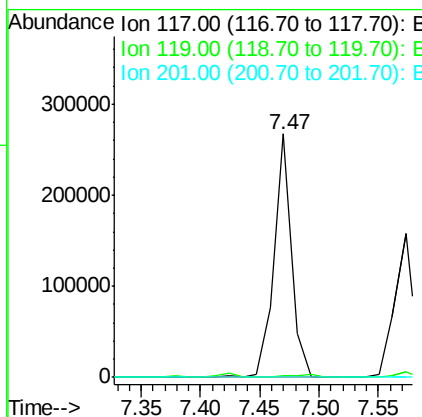
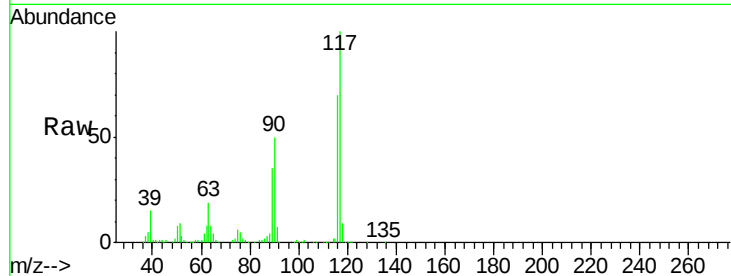




#18
Hexachloroethane
Concen: 47.35 ng
RT: 7.47 min Scan# 471
Delta R.T. 0.07 min
Lab File: BF082662.D
Acq: 3 Nov 2015 15:56

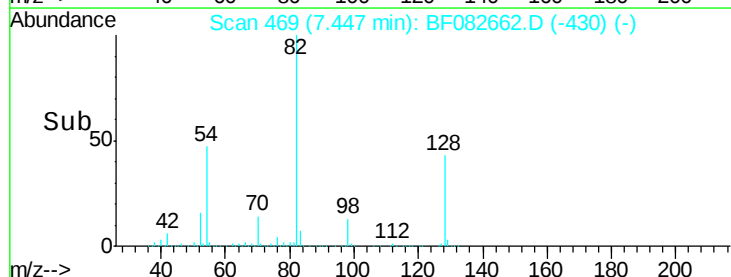
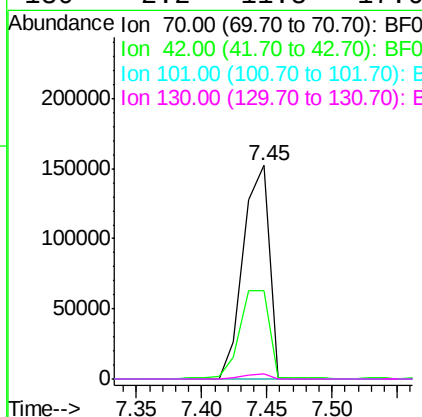
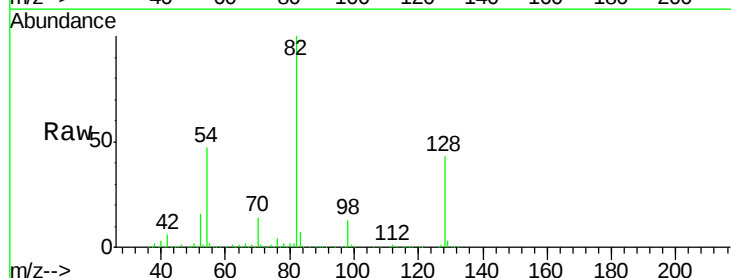
Instrument :
BNA_F
ClientSampleId :
WC-SOIL-001

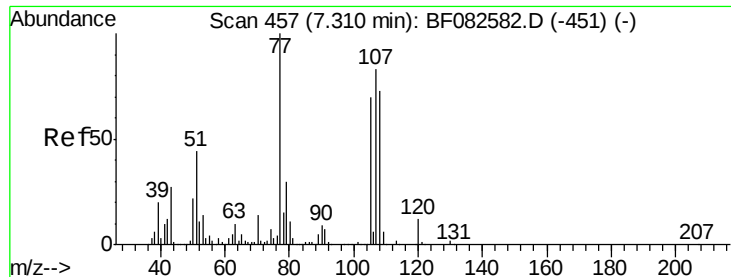
Tgt Ion: 117 Resp: 273235
Ion Ratio Lower Upper
117 100
119 0.5 77.7 116.5#
201 0.0 66.7 100.1#



#19
n-Nitroso-di-n-propylamine
Concen: 17.36 ng
RT: 7.45 min Scan# 469
Delta R.T. 0.15 min
Lab File: BF082662.D
Acq: 3 Nov 2015 15:56

Tgt Ion: 70 Resp: 211293
Ion Ratio Lower Upper
70 100
42 41.4 57.7 86.5#
101 0.0 7.0 10.6#
130 2.2 11.8 17.6#

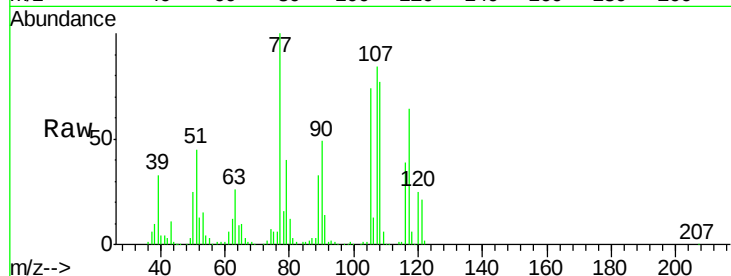




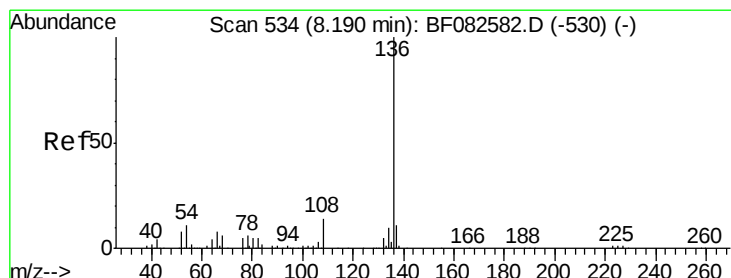
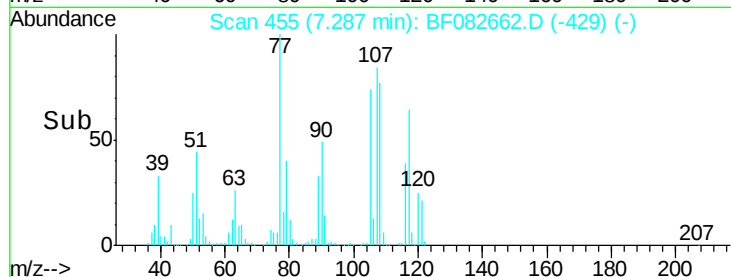
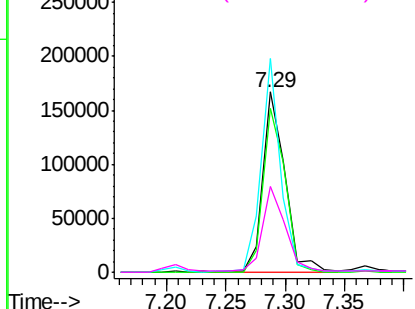
#20
 3+4-Methylphenols
 Concen: 15.22 ng
 RT: 7.29 min Scan# 455
 Delta R.T. 0.00 min
 Lab File: BF082662.D
 Acq: 3 Nov 2015 15:56

Instrument :
 BNA_F
 ClientSampleId :
 WC-SOIL-001

Tgt Ion:107 Resp: 219911
 Ion Ratio Lower Upper
 107 100
 108 91.2 67.3 107.3
 77 118.6 100.3 140.3
 79 47.5 16.2 56.2



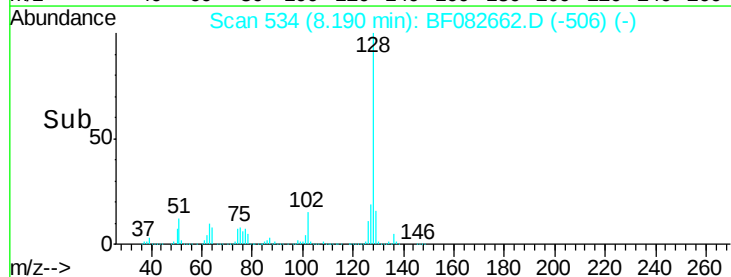
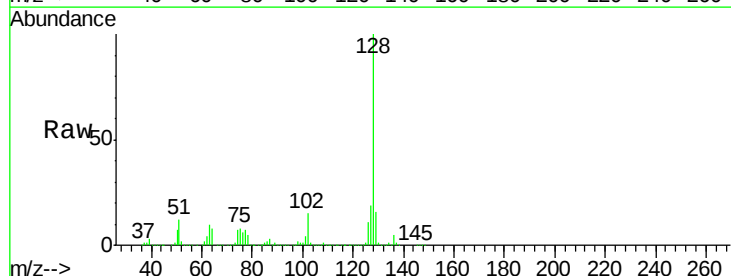
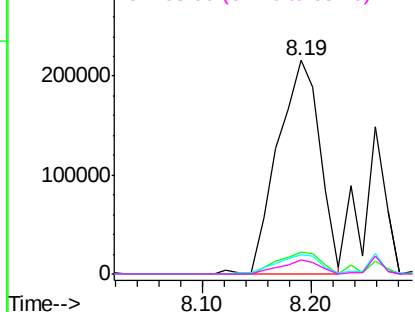
Abundance Ion 107.00 (106.70 to 107.70): E
 Ion 108.00 (107.70 to 108.70): E
 Ion 77.00 (76.70 to 77.70): BF0
 Ion 79.00 (78.70 to 79.70): BF0

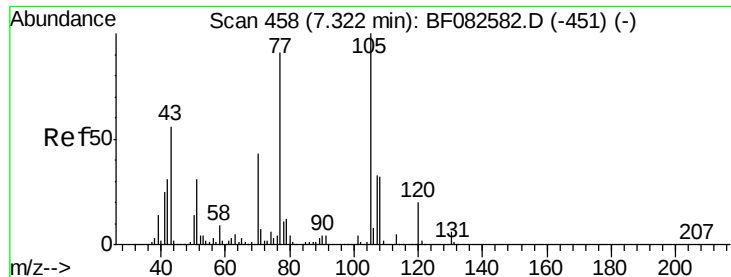


#21
 Naphthalene-d8
 Concen: 20.00 ng
 RT: 8.19 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: BF082662.D
 Acq: 3 Nov 2015 15:56

Tgt Ion:136 Resp: 585054
 Ion Ratio Lower Upper
 136 100
 137 10.4 9.1 13.7
 54 9.2 9.1 13.7
 68 6.5 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: 8.70 ng

RT: 7.29 min Scan# 455

Delta R.T. 0.00 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-001

Tgt Ion:105 Resp: 149873

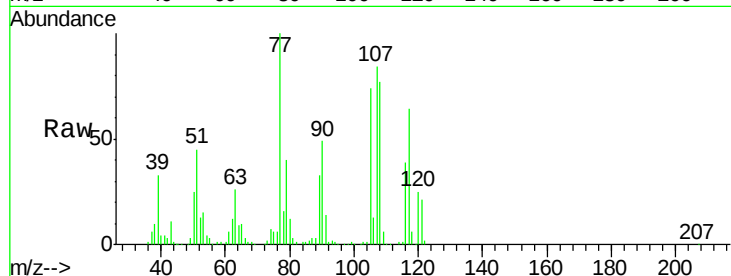
Ion Ratio Lower Upper

105 100

71 0.0 5.6 8.4#

51 60.7 24.9 37.3#

120 34.1 15.8 23.8#

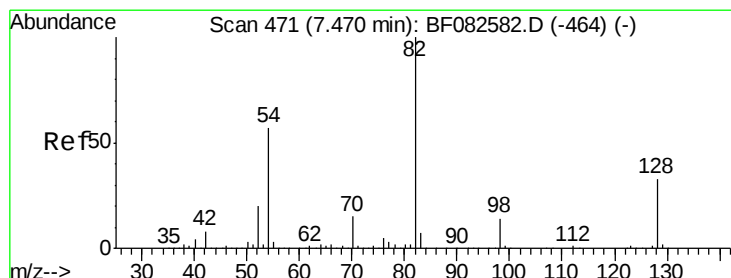
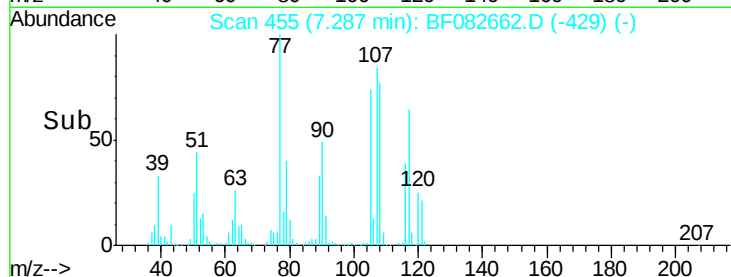
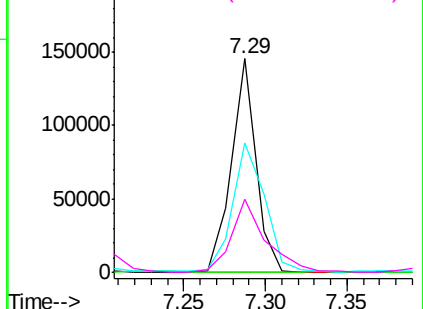


Abundance Ion 105.00 (104.70 to 105.70): E

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: 105.59 ng

RT: 7.45 min Scan# 469

Delta R.T. 0.00 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

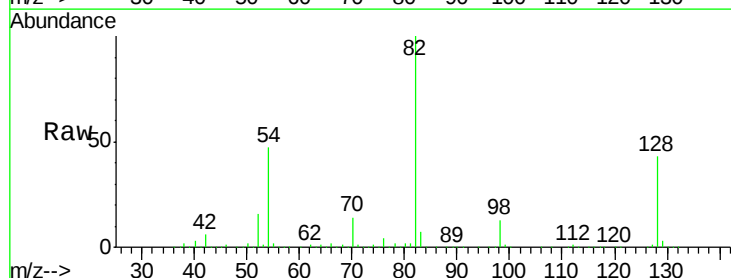
Tgt Ion: 82 Resp: 1512839

Ion Ratio Lower Upper

82 100

128 42.6 26.8 40.2#

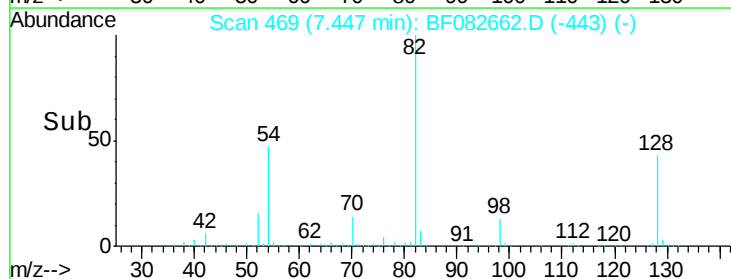
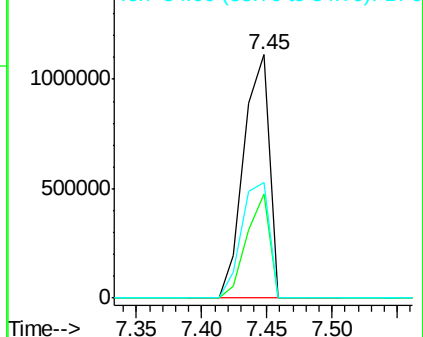
54 47.5 45.7 68.5

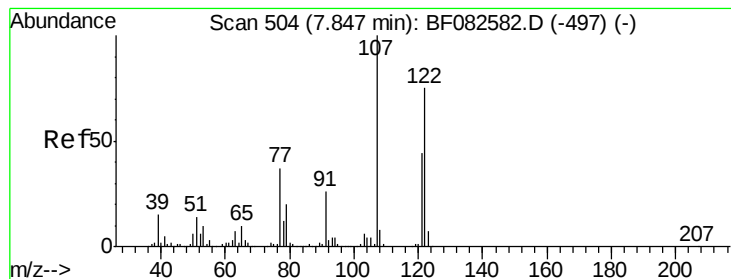


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#27

2,4-Dimethylphenol

Concen: 43.97 ng

RT: 7.84 min Scan# 503

Delta R.T. 0.01 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-001

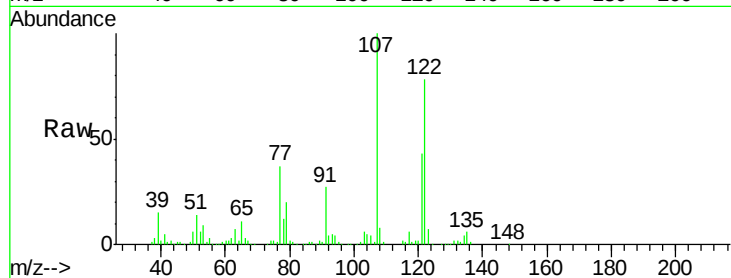
Tgt Ion:122 Resp: 454088

Ion Ratio Lower Upper

122 100

107 129.0 106.0 159.0

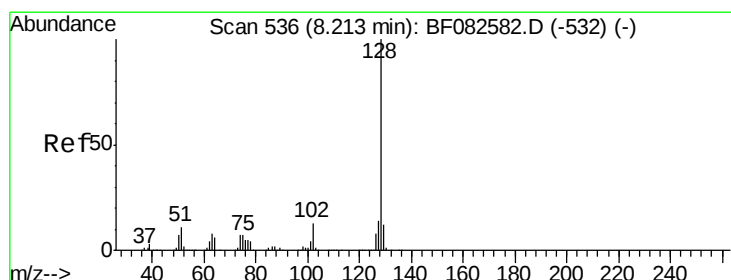
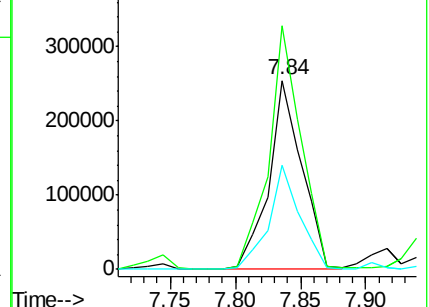
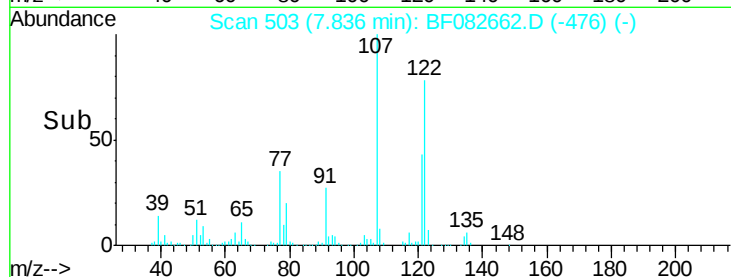
121 55.3 46.7 70.1



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#31

Naphthalene

Concen: 617.04 ng

RT: 8.24 min Scan# 538

Delta R.T. 0.05 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

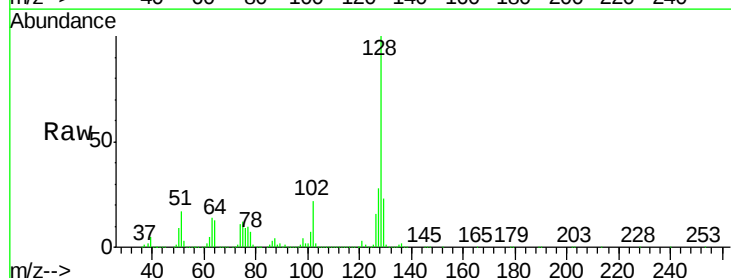
Tgt Ion:128 Resp:19533948

Ion Ratio Lower Upper

128 100

129 23.3 9.5 14.3#

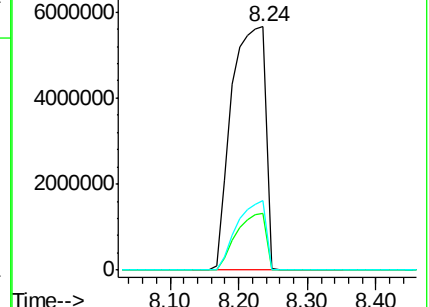
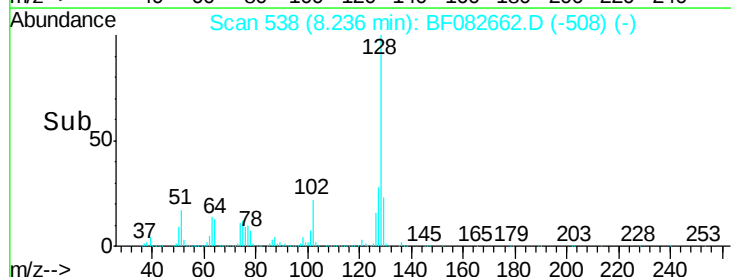
127 28.3 11.4 17.0#

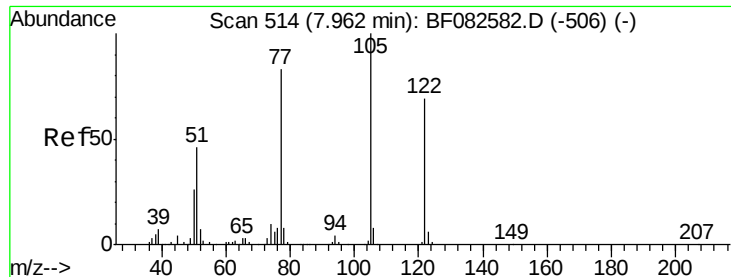


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

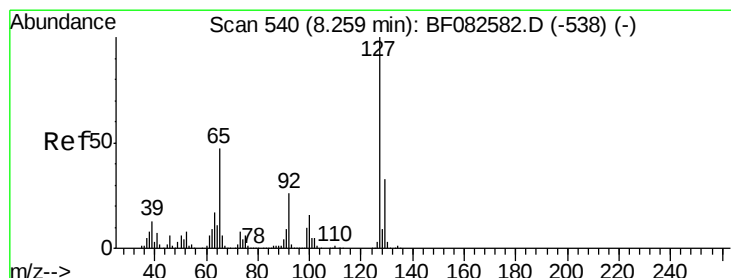
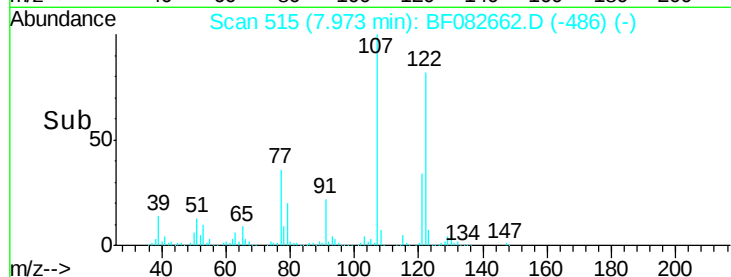
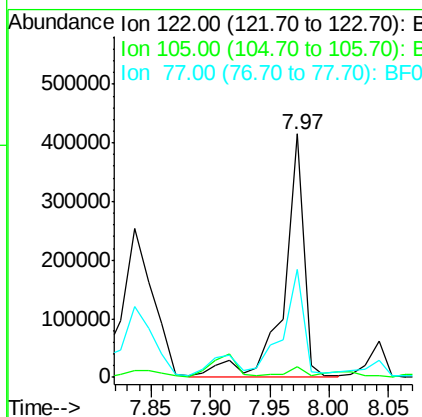
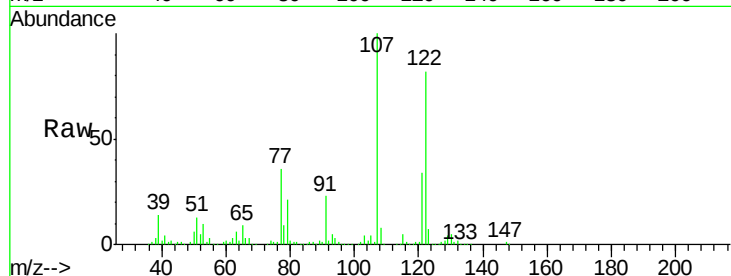




#32
Benzoic acid
Concen: 63.44 ng
RT: 7.97 min Scan# 515
Delta R.T. 0.03 min
Lab File: BF082662.D
Acq: 3 Nov 2015 15:56

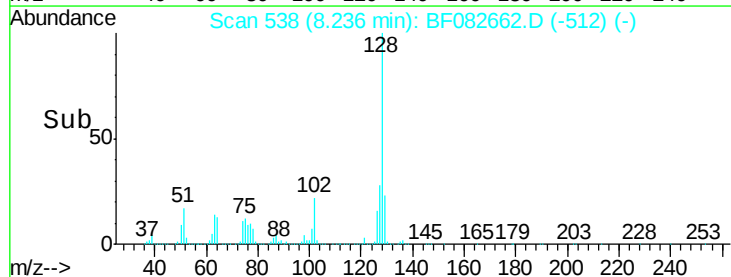
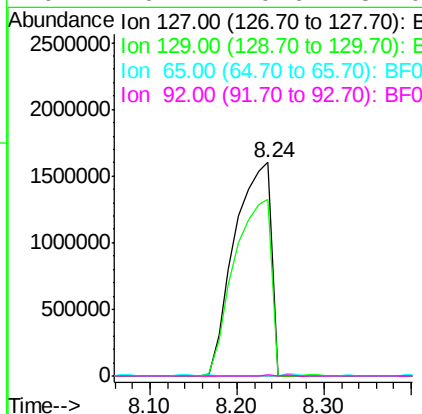
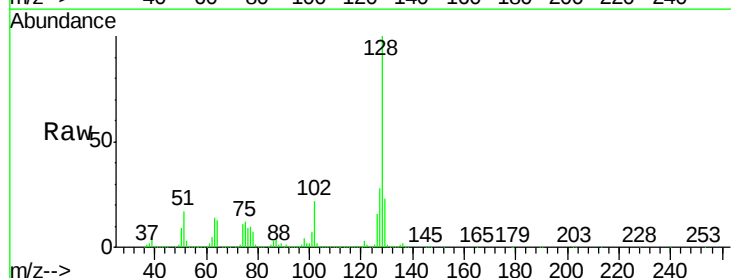
Instrument :
BNA_F
ClientSampled :
WC-SOIL-001

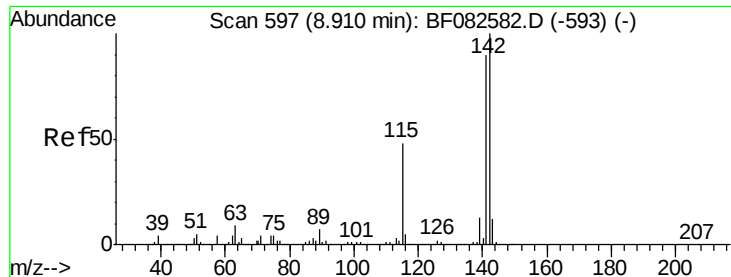
Tgt Ion:122 Resp: 475271
Ion Ratio Lower Upper
122 100
105 4.3 122.6 162.6#
77 44.1 100.9 140.9#



#33
4-Chloroaniline
Concen: 348.63 ng
RT: 8.24 min Scan# 538
Delta R.T. 0.00 min
Lab File: BF082662.D
Acq: 3 Nov 2015 15:56

Tgt Ion:127 Resp: 4711934
Ion Ratio Lower Upper
127 100
129 82.5 26.3 39.5#
65 0.0 37.8 56.8#
92 0.4 20.6 31.0#

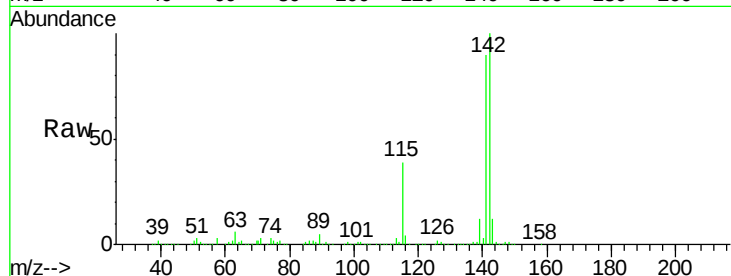




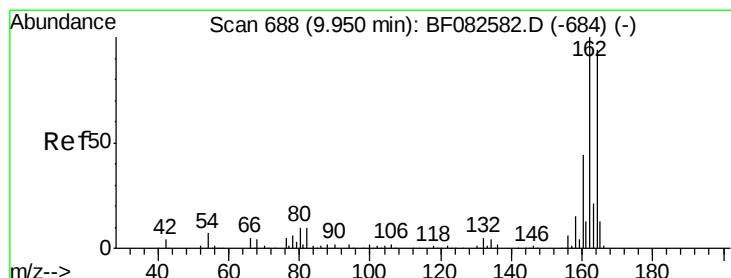
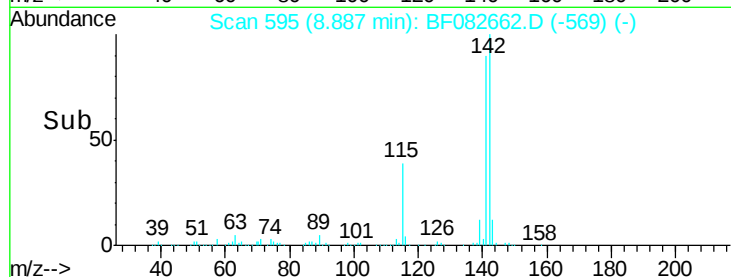
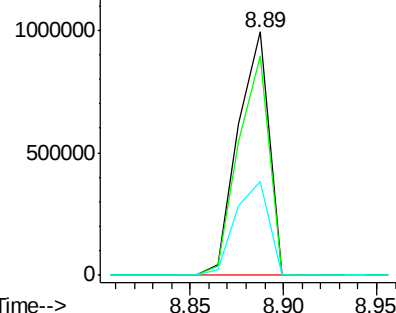
#37
2-Methylnaphthalene
Concen: 55.53 ng
RT: 8.89 min Scan# 595
Delta R.T. 0.00 min
Lab File: BF082662.D
Acq: 3 Nov 2015 15:56

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-001

Tgt Ion:142 Resp: 1139320
Ion Ratio Lower Upper
142 100
141 89.8 72.3 108.5
115 38.7 38.1 57.1

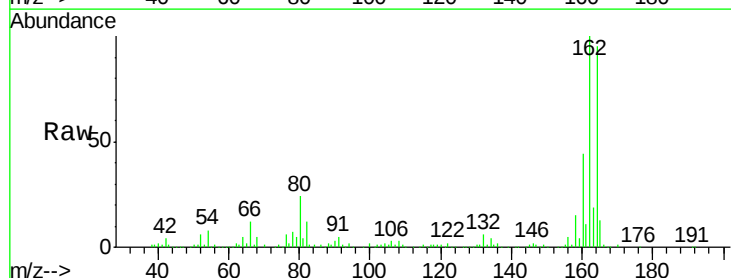


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

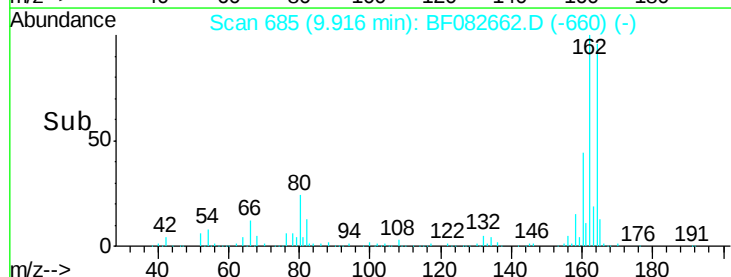
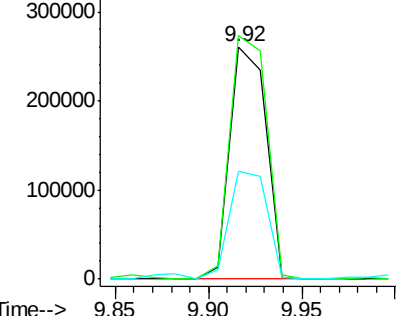


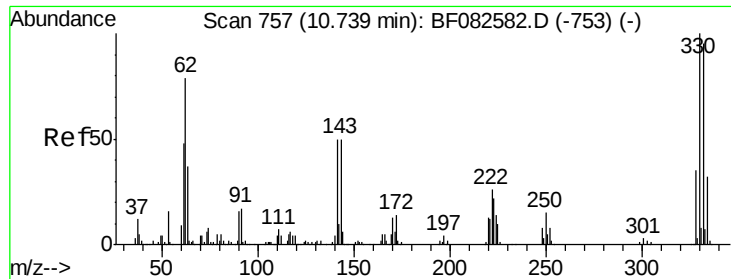
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.92 min Scan# 685
Delta R.T. -0.01 min
Lab File: BF082662.D
Acq: 3 Nov 2015 15:56

Tgt Ion:164 Resp: 349978
Ion Ratio Lower Upper
164 100
162 104.8 84.9 127.3
160 46.5 37.5 56.3



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

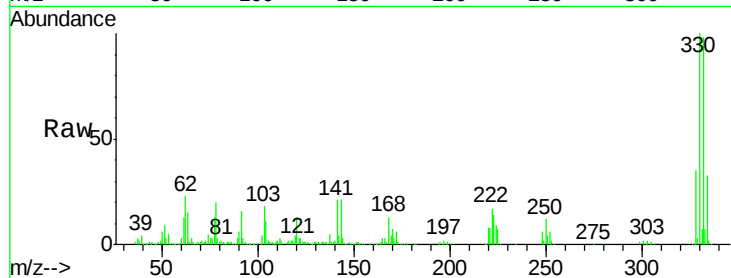




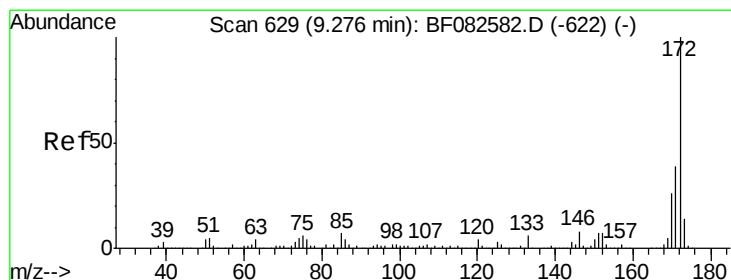
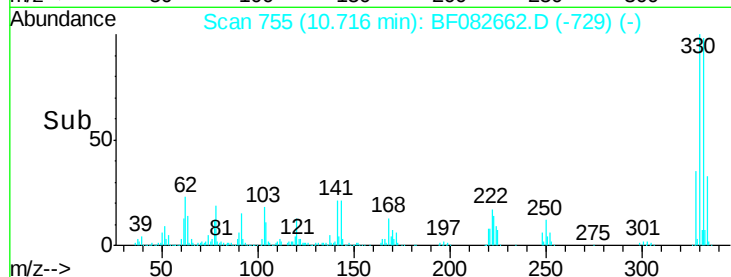
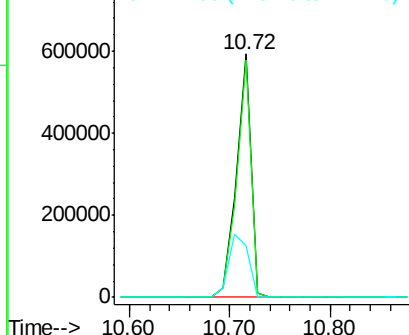
#41
 2,4,6-Tribromophenol
 Concen: 155.78 ng
 RT: 10.72 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: BF082662.D
 Acq: 3 Nov 2015 15:56

Instrument :
 BNA_F
 ClientSampleId :
 WC-SOIL-001

Tgt Ion:330 Resp: 596646
 Ion Ratio Lower Upper
 330 100
 332 96.2 76.6 114.8
 141 35.3 41.2 61.8#

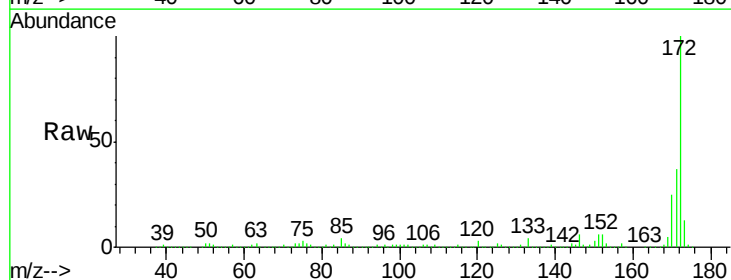


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

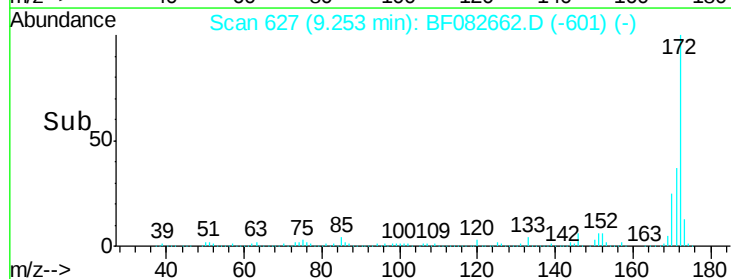
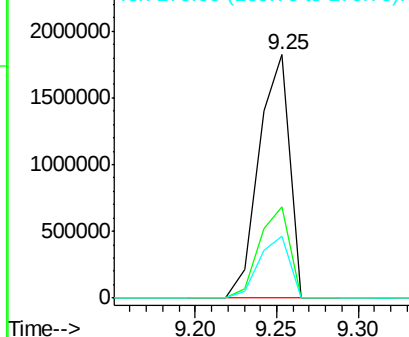


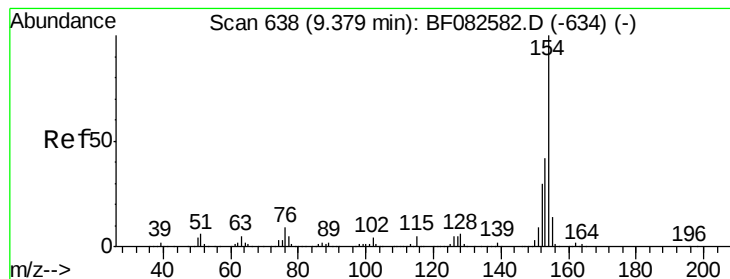
#44
 2-Fluorobiphenyl
 Concen: 95.90 ng
 RT: 9.25 min Scan# 627
 Delta R.T. 0.00 min
 Lab File: BF082662.D
 Acq: 3 Nov 2015 15:56

Tgt Ion:172 Resp: 2363987
 Ion Ratio Lower Upper
 172 100
 171 37.3 30.8 46.2
 170 25.2 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





#45

1,1'-Biphenyl

Concen: 2.85 ng

RT: 9.34 min Scan# 635

Delta R.T. 0.00 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-001

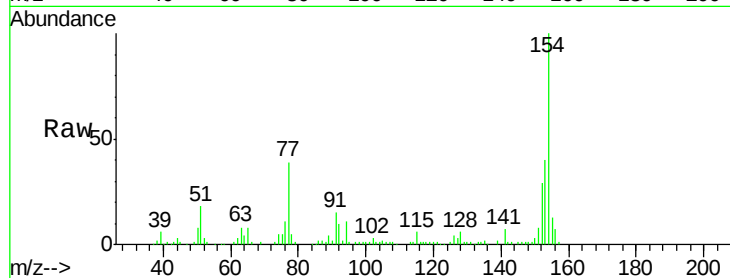
Tgt Ion:154 Resp: 84262

Ion Ratio Lower Upper

154 100

153 39.9 22.0 62.0

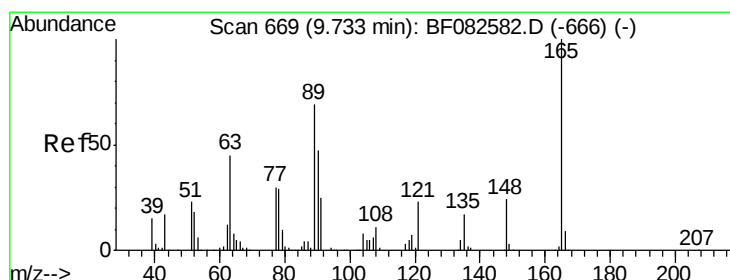
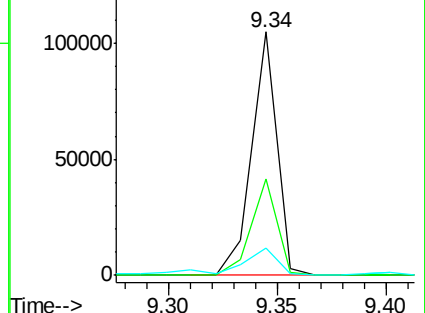
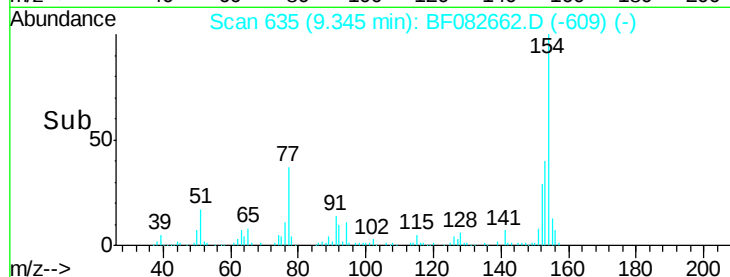
76 11.1 0.0 29.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#50

2,6-Dinitrotoluene

Concen: 7.83 ng

RT: 9.92 min Scan# 685

Delta R.T. 0.21 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

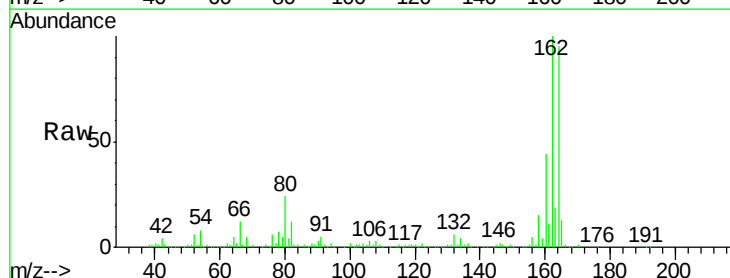
Tgt Ion:165 Resp: 46403

Ion Ratio Lower Upper

165 100

63 9.8 55.5 83.3#

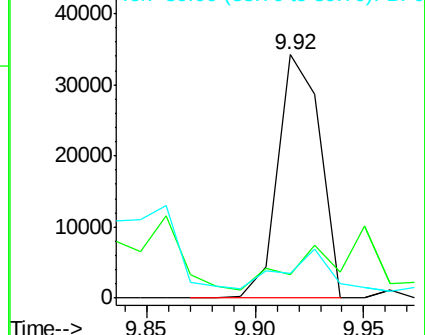
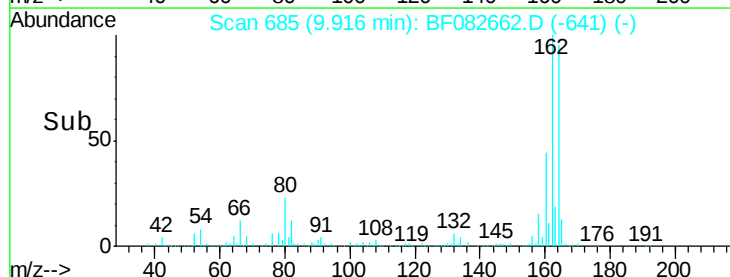
89 10.1 55.0 82.6#

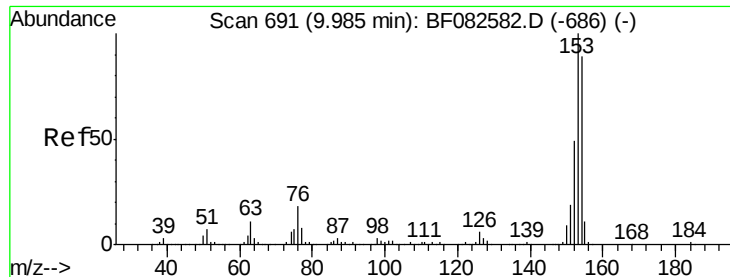


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 3.86 ng

RT: 9.95 min Scan# 688

Delta R.T. -0.01 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-001

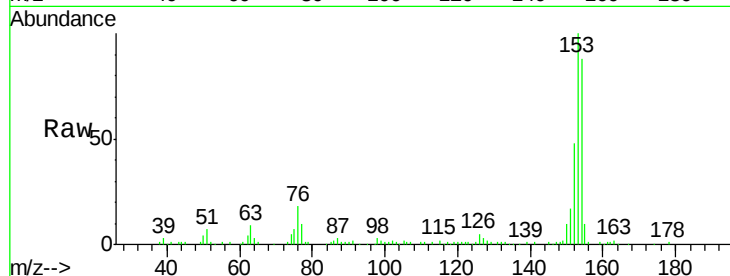
Tgt Ion:154 Resp: 90407

Ion Ratio Lower Upper

154 100

153 114.2 90.1 135.1

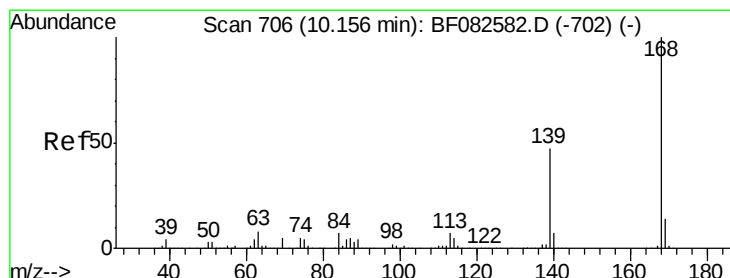
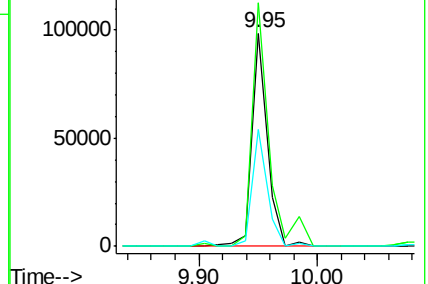
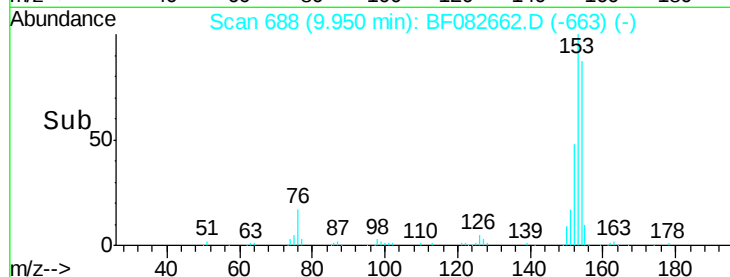
152 55.1 44.3 66.5



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



#54

Dibenzofuran

Concen: 2.86 ng

RT: 10.12 min Scan# 703

Delta R.T. -0.01 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

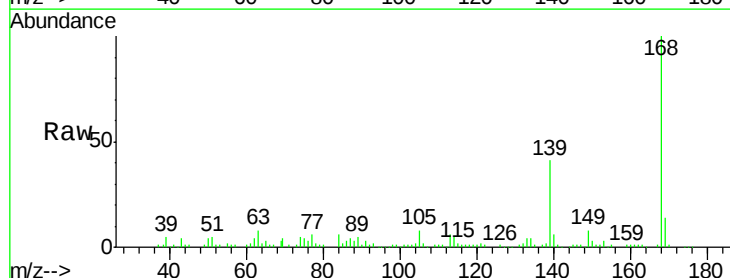
Tgt Ion:168 Resp: 90845

Ion Ratio Lower Upper

168 100

139 41.0 37.8 56.6

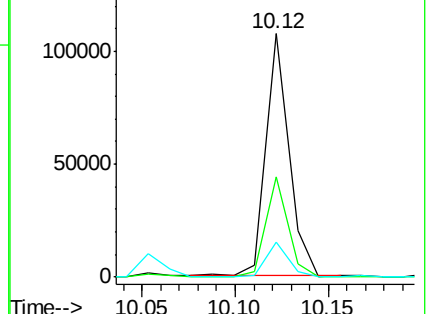
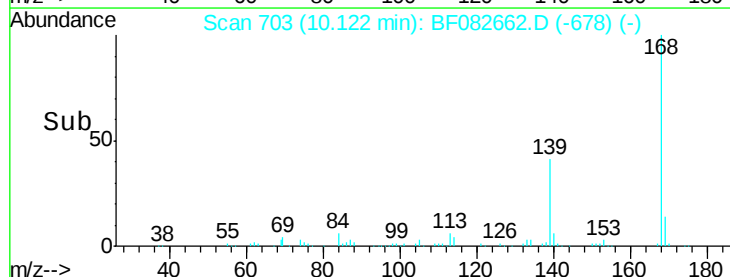
169 14.2 11.3 16.9

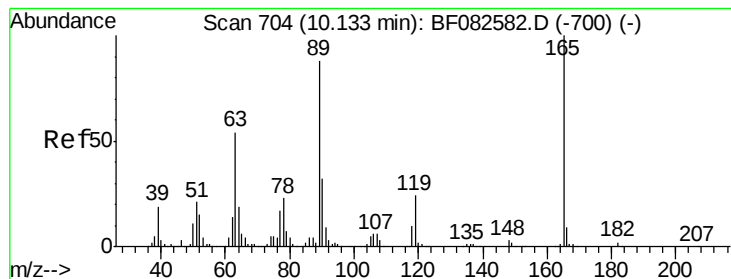


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#56

2,4-Dinitrotoluene

Concen: 5.79 ng

RT: 9.92 min Scan# 685

Delta R.T. -0.19 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-001

Tgt Ion:165 Resp: 46404

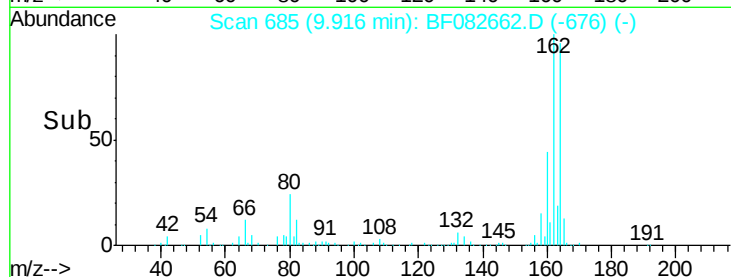
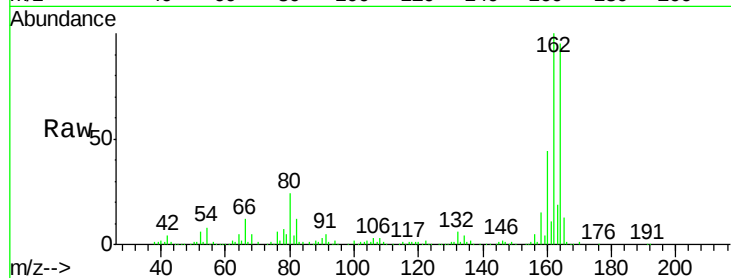
Ion Ratio Lower Upper

165 100

63 9.8 43.4 65.0#

89 10.1 70.6 106.0#

182 0.0 1.5 2.3#

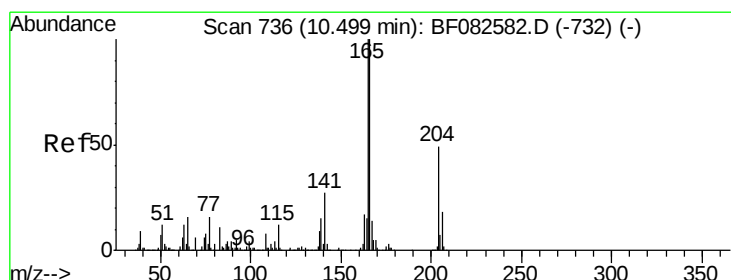
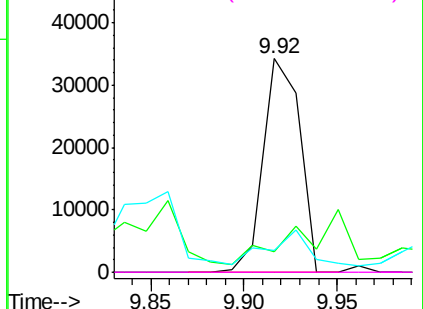


Abundance Ion 165.00 (164.70 to 165.70): E

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



#57

Fluorene

Concen: 3.00 ng

RT: 10.46 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

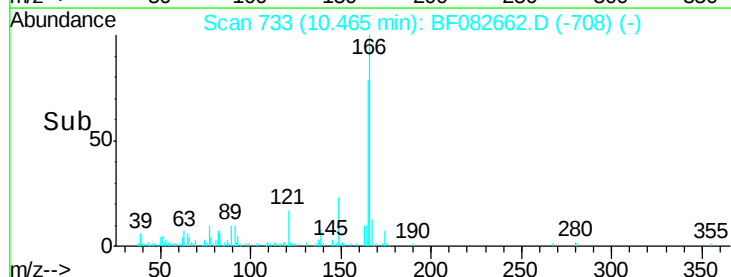
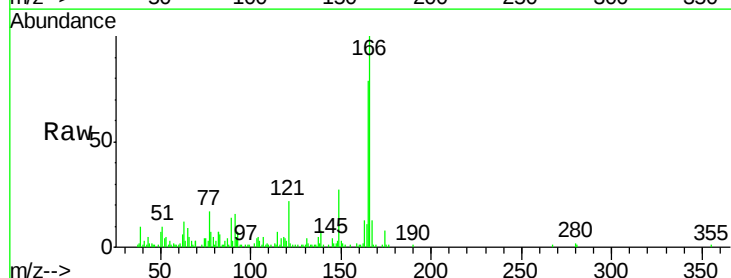
Tgt Ion:166 Resp: 77090

Ion Ratio Lower Upper

166 100

165 78.6 80.2 120.4#

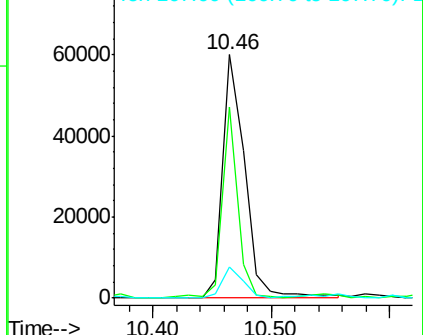
167 12.9 11.2 16.8

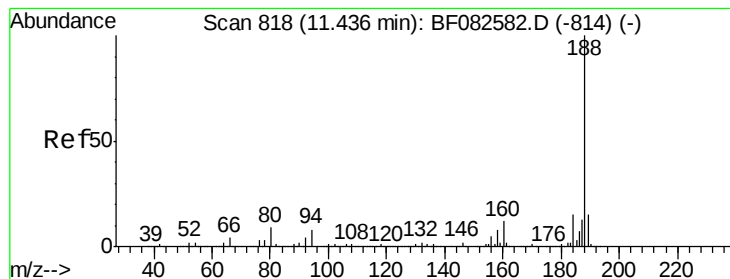


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.40 min Scan# 815

Delta R.T. -0.01 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-001

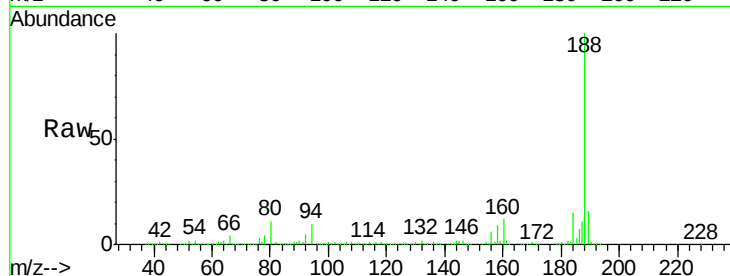
Tgt Ion:188 Resp: 657705

Ion Ratio Lower Upper

188 100

94 10.1 6.1 9.1#

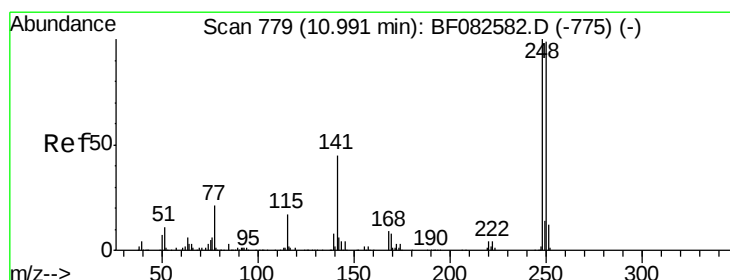
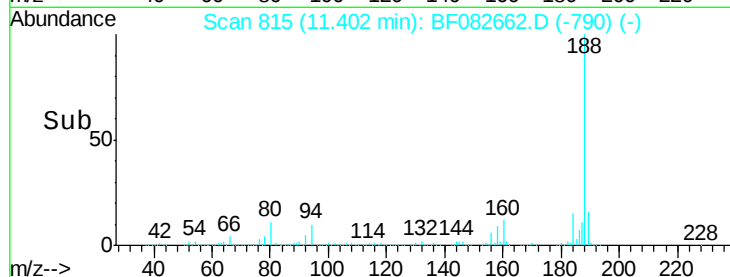
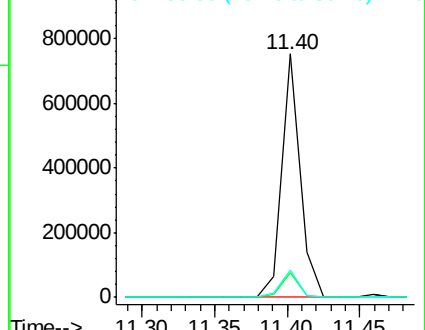
80 11.0 7.0 10.6#



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: 5.44 ng

RT: 10.72 min Scan# 755

Delta R.T. -0.24 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

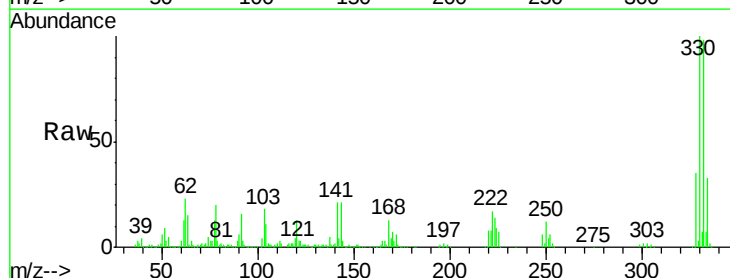
Tgt Ion:248 Resp: 40574

Ion Ratio Lower Upper

248 100

250 199.3 79.4 119.2#

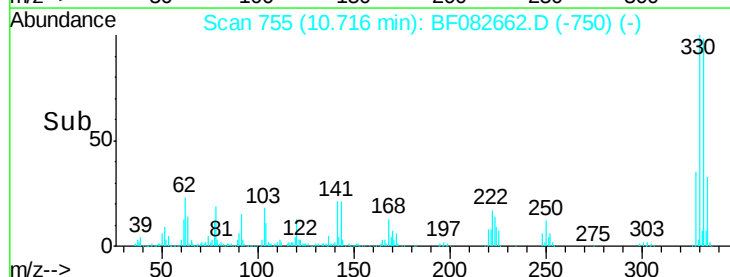
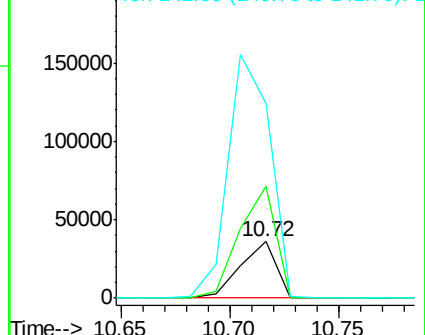
141 347.8 36.3 54.5#

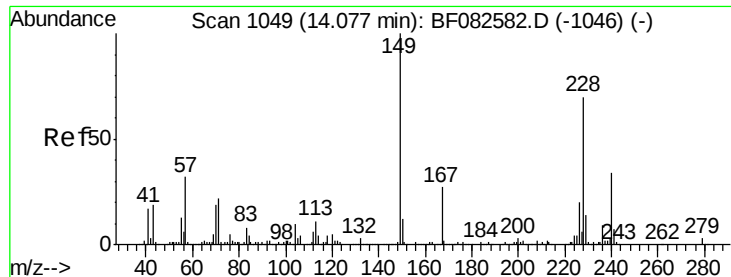


Abundance Ion 248.00 (247.70 to 248.70): E

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: BF082662.D

Acq: 3 Nov 2015 15:56

Instrument :

BNA_F

ClientSampleId :

WC-SOIL-001

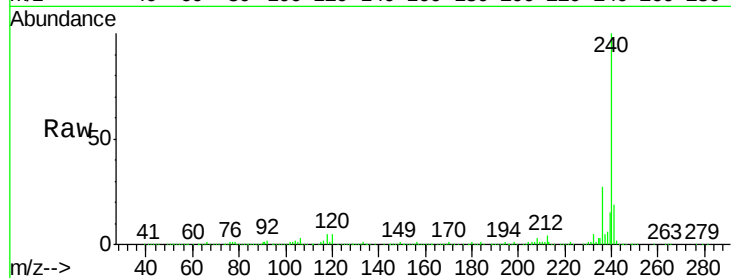
Tgt Ion:240 Resp: 570200

Ion Ratio Lower Upper

240 100

120 5.3 10.9 16.3#

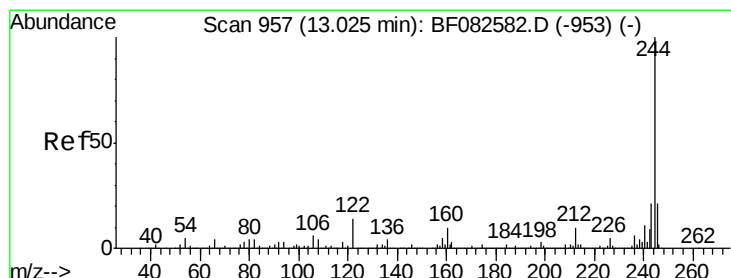
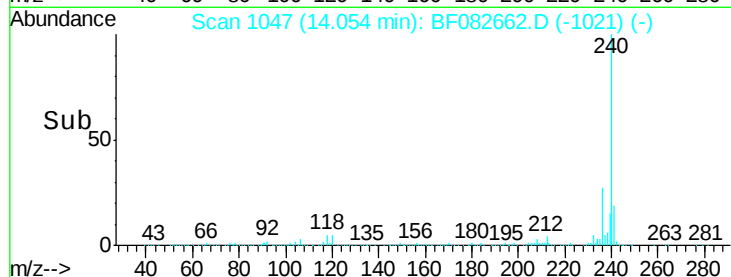
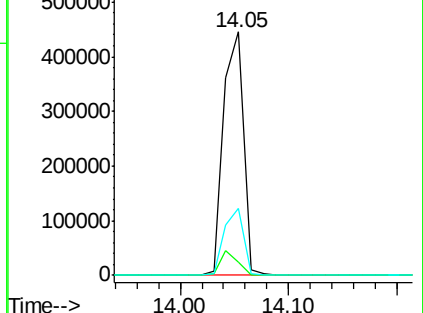
236 27.4 21.6 32.4



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: 84.07 ng

RT: 13.00 min Scan# 955

Delta R.T. 0.00 min

Lab File: BF082662.D

Acq: 3 Nov 2015 15:56

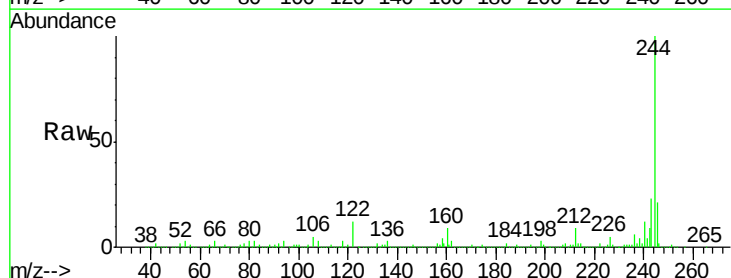
Tgt Ion:244 Resp: 2190510

Ion Ratio Lower Upper

244 100

212 8.6 7.6 11.4

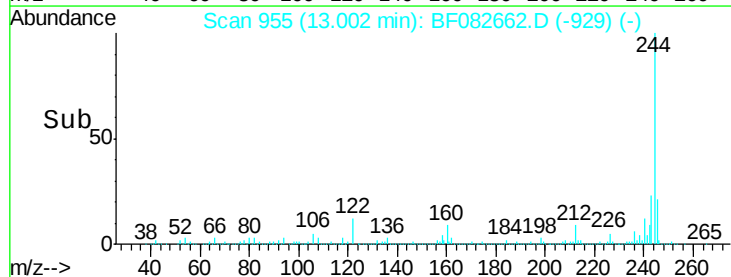
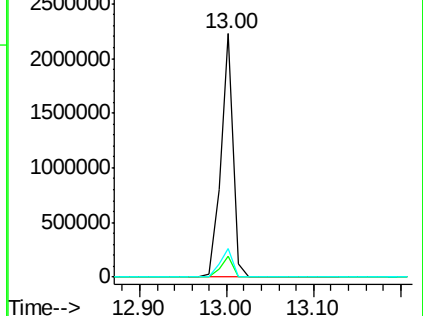
122 11.8 11.3 16.9

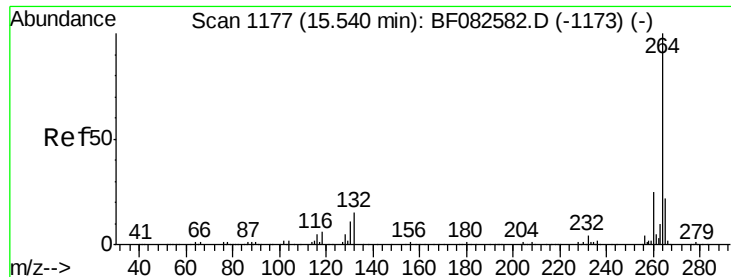


Abundance Ion 244.00 (243.70 to 244.70): E

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: BF082662.D
Acq: 3 Nov 2015 15:56

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-001

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.8	29.6
265	20.4	17.4	26.0

