

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\
 Data File : BF083813.D
 Acq On : 15 Dec 2015 12:25
 Operator : UM/IZ
 Sample : G4760-01 5X
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC121015-SOIL-POPH

Quant Time: Dec 16 06:00:41 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 14 01:30:12 2015
 Response via : Initial Calibration

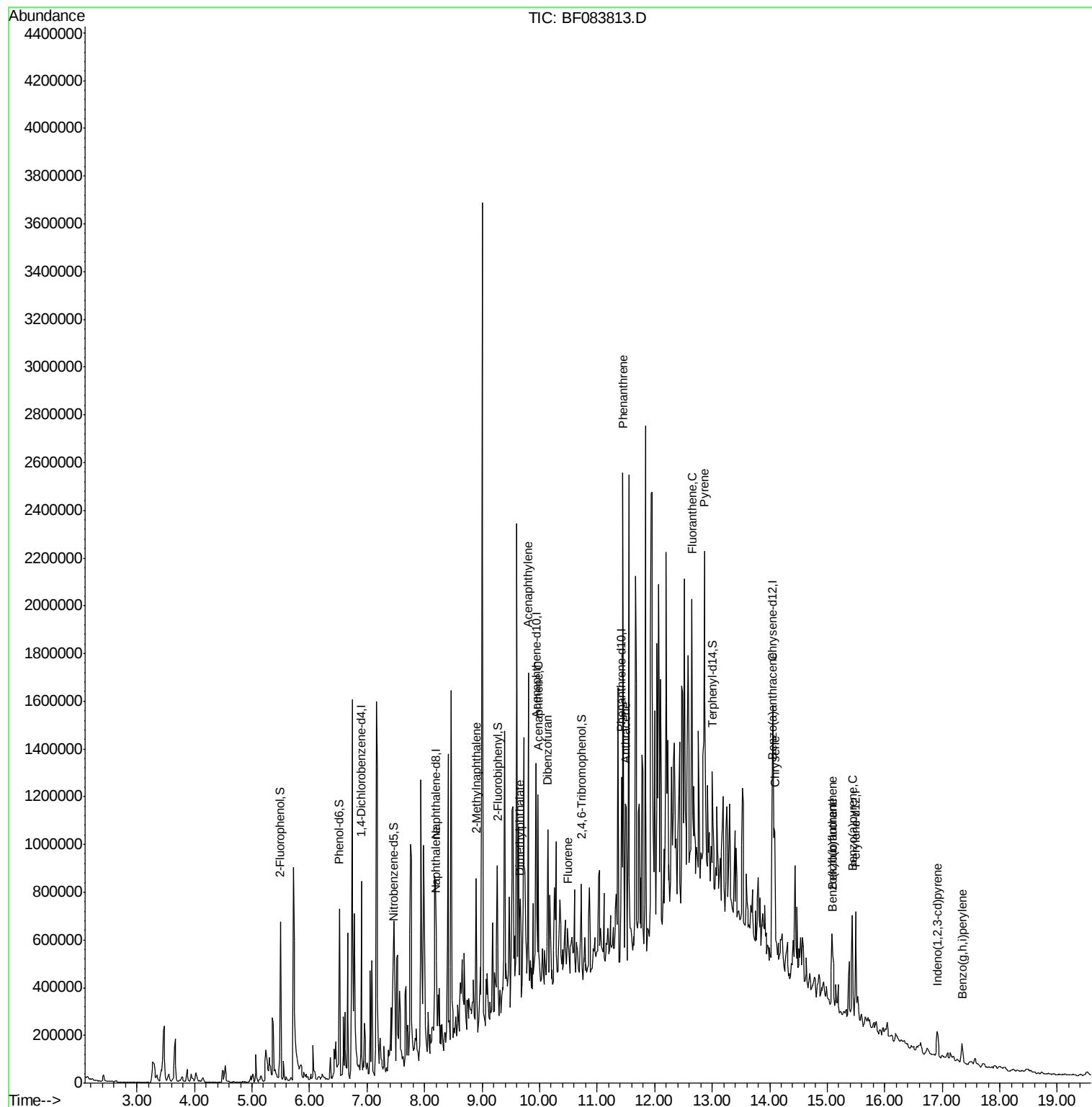
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	107535	20.00	ng	-0.02
21) Naphthalene-d8	8.19	136	417941	20.00	ng	-0.02
38) Acenaphthene-d10	9.94	164	196884	20.00	ng	-0.02
63) Phenanthrene-d10	11.42	188	301164	20.00	ng	-0.02
75) Chrysene-d12	14.05	240	228214	20.00	ng	-0.02
86) Perylene-d12	15.49	264	239192	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	171195	25.68	ng	-0.03
7) Phenol-d6	6.52	99	238435	28.25	ng	-0.02
23) Nitrobenzene-d5	7.46	82	125086	16.74	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	44871	22.37	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	193481	12.11	ng	-0.02
78) Terphenyl-d14	13.00	244	123398	11.63	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.20	128	243355	11.17	ng	98
37) 2-Methylnaphthalene	8.90	142	41961m	3.07	ng	
48) Acenaphthylene	9.80	152	271900	12.55	ng	# 92
49) Dimethylphthalate	9.65	163	53270	3.47	ng	# 81
51) Acenaphthene	9.97	154	140968	10.76	ng	98
54) Dibenzofuran	10.14	168	55429	3.19	ng	# 57
57) Fluorene	10.49	166	54244m	3.97	ng	
70) Phenanthrene	11.45	178	879827	54.99	ng	99
71) Anthracene	11.50	178	417748	25.14	ng	99
74) Fluoranthene	12.65	202	394874	23.89	ng	95
77) Pyrene	12.86	202	652345	36.17	ng	99
80) Benzo(a)anthracene	14.04	228	371159	28.60	ng	95
82) Chrysene	14.09	228	294764m	23.29	ng	
85) Indeno(1,2,3-cd)pyrene	16.91	276	62056	4.99	ng	# 100
87) Benzo(b)fluoranthene	15.08	252	188444m	12.35	ng	
88) Benzo(k)fluoranthene	15.09	252	73257m	5.30	ng	
89) Benzo(a)pyrene	15.44	252	207010	15.20	ng	98
91) Benzo(g,h,i)perylene	17.35	276	66364	4.77	ng	99

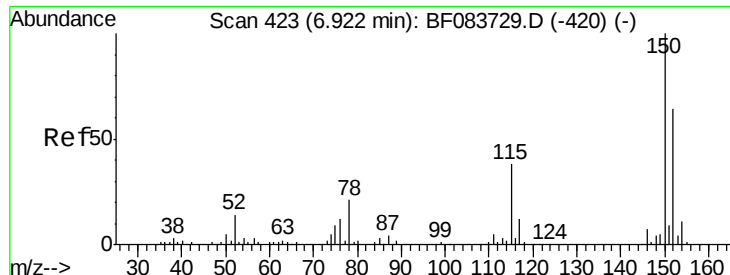
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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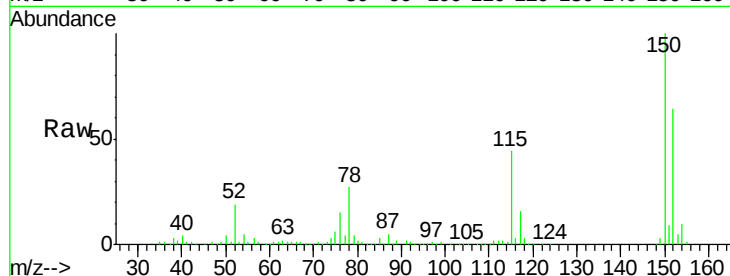


#1

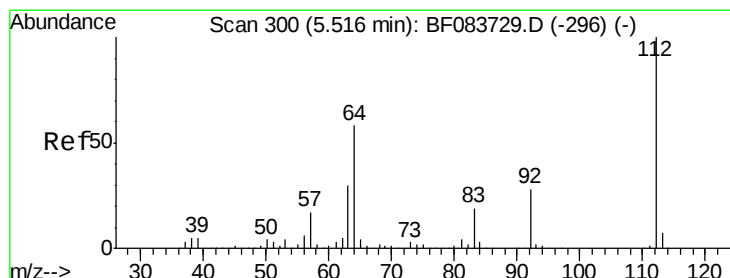
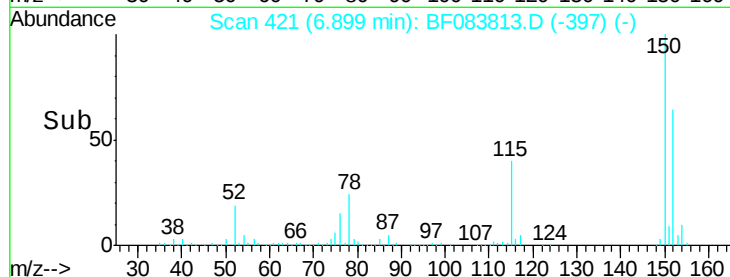
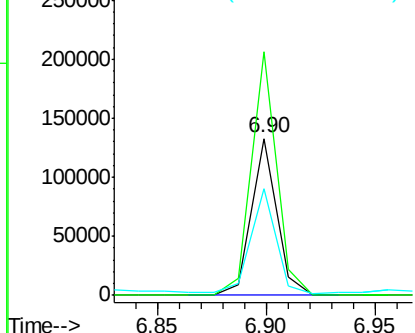
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 421
Delta R.T. -0.02 min
Lab File: BF083813.D
Acq: 15 Dec 2015 12:25

Instrument :
BNA_F
ClientSampleId :
WC121015-SOIL-POPH

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.4	126.5	189.7
115	67.9	52.3	78.5



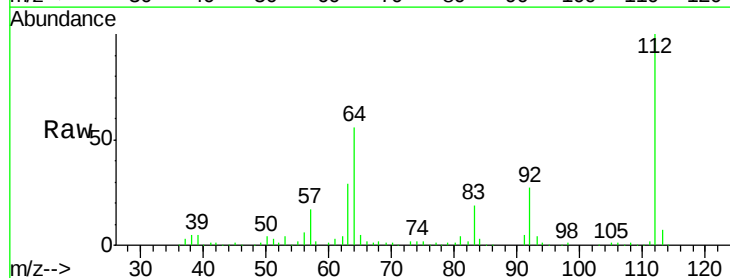
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



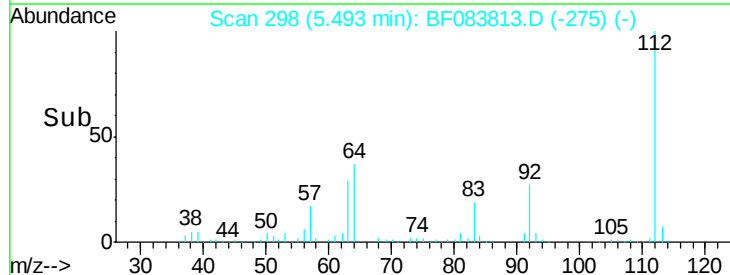
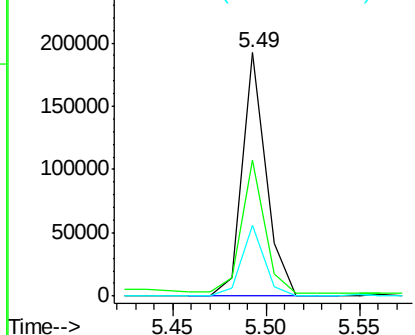
#5

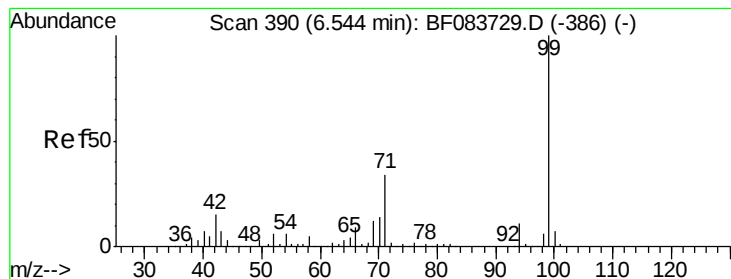
2-Fluorophenol
Concen: 25.68 ng
RT: 5.49 min Scan# 298
Delta R.T. -0.03 min
Lab File: BF083813.D
Acq: 15 Dec 2015 12:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.2	50.5	75.7
63	29.0	25.8	38.6



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: 28.25 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

Instrument :

BNA_F

ClientSampleId :

WC121015-SOIL-POPH

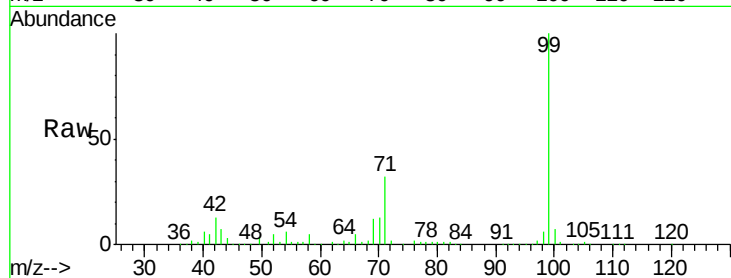
Tot Ion: 99 Resp: 238435

Ion Ratio Lower Upper

99 100

42 13.3 17.3 25.9#

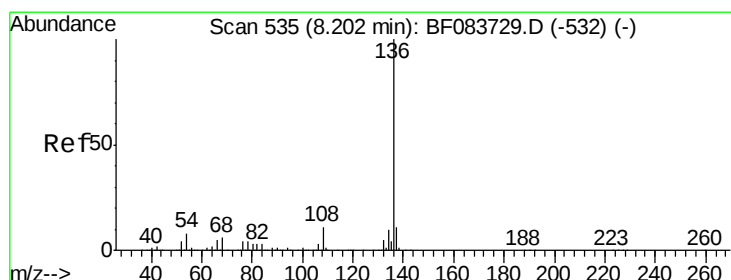
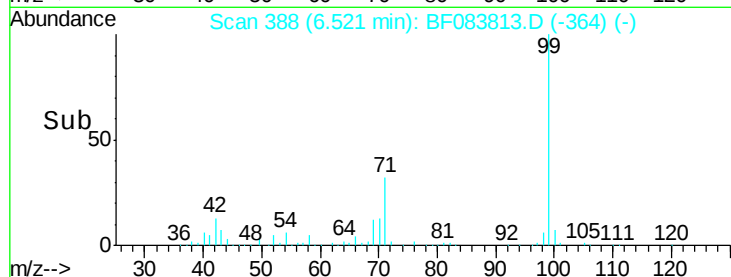
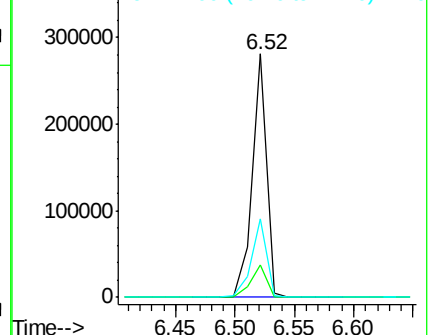
71 32.2 26.6 40.0



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.19 min Scan# 534

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

Tgt Ion: 136 Resp: 417941

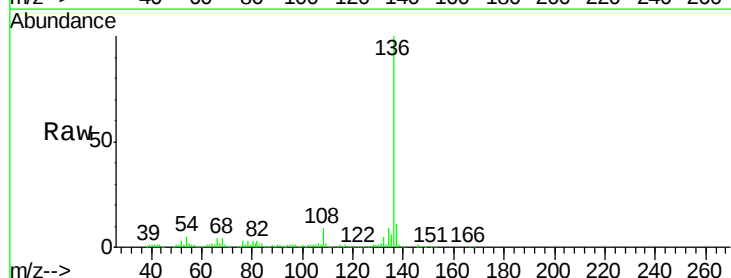
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 4.8 7.8 11.6#

68 4.4 5.7 8.5#

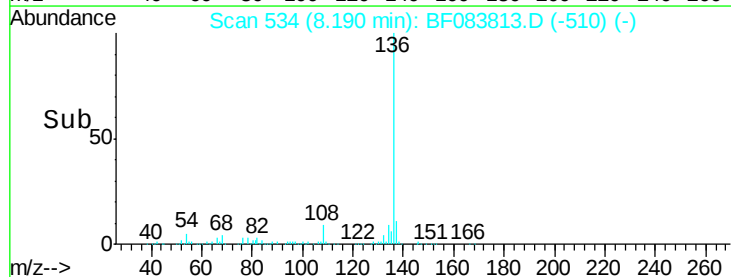
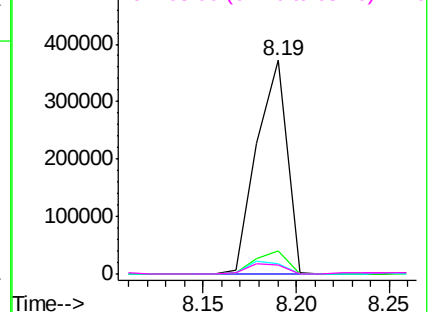


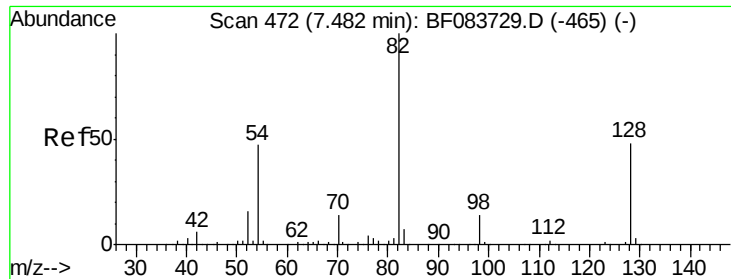
Abundance Ion 136.00 (135.70 to 136.70): E

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

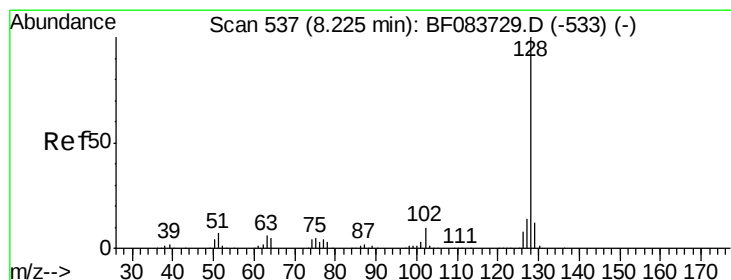
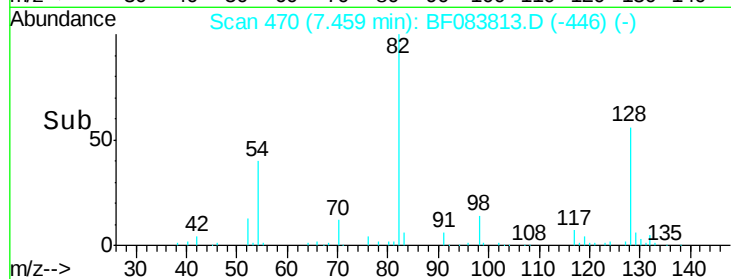
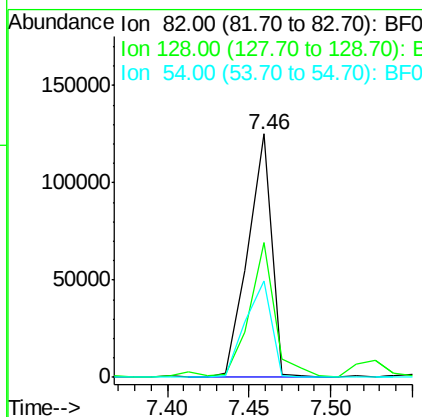
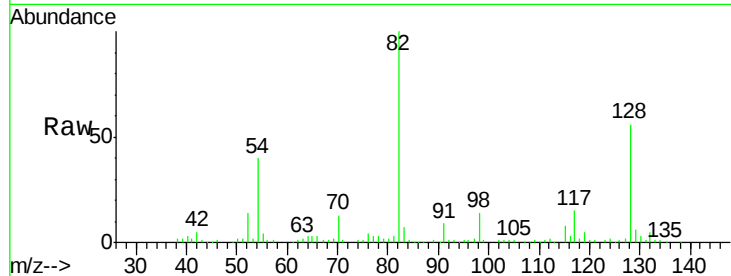




#23
Nitrobenzene-d5
Concen: 16.74 ng
RT: 7.46 min Scan# 470
Delta R.T. -0.02 min
Lab File: BF083813.D
Acq: 15 Dec 2015 12:25

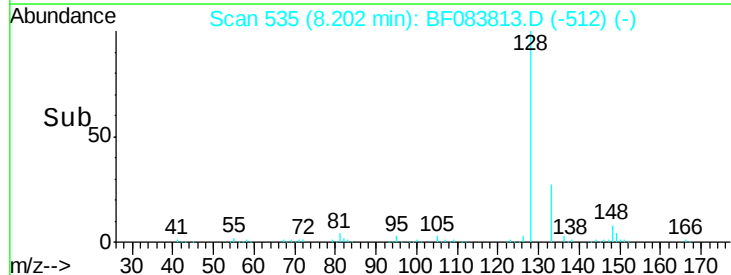
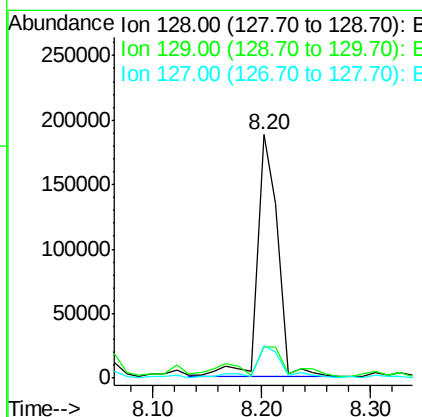
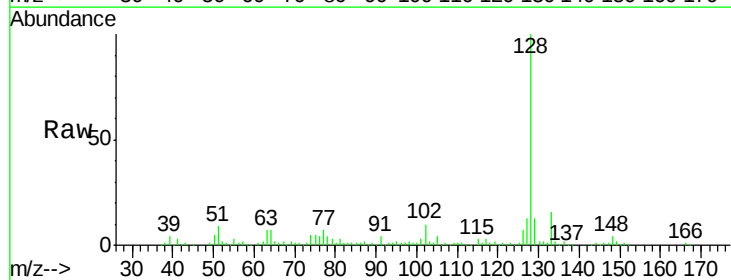
Instrument :
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ClientSampleId :
WC121015-SOIL-POPH

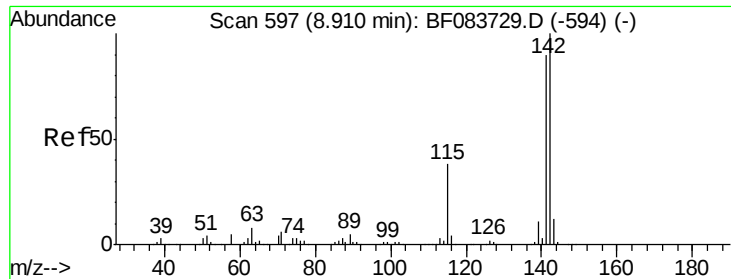
Tot Ion: 82 Resp: 125086
Ion Ratio Lower Upper
82 100
128 55.6 30.7 46.1#
54 39.9 42.5 63.7#



#31
Naphthalene
Concen: 11.17 ng
RT: 8.20 min Scan# 535
Delta R.T. -0.03 min
Lab File: BF083813.D
Acq: 15 Dec 2015 12:25

Tgt Ion:128 Resp: 243355
Ion Ratio Lower Upper
128 100
129 12.7 8.6 13.0
127 13.5 10.6 16.0

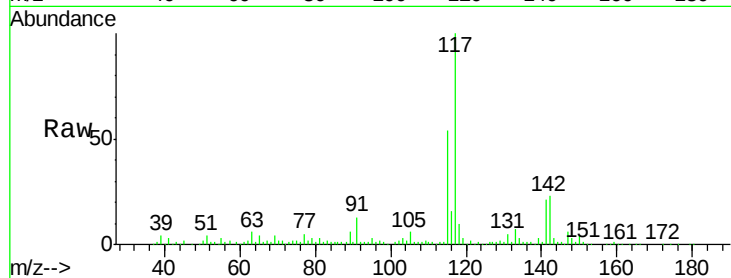




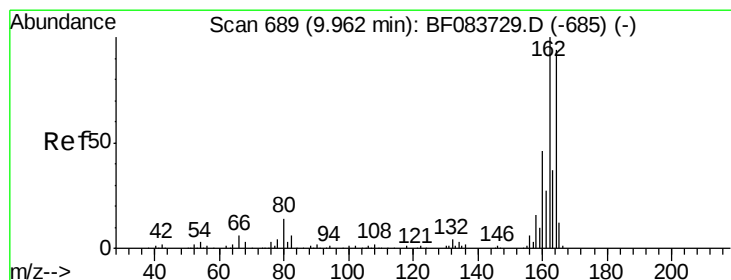
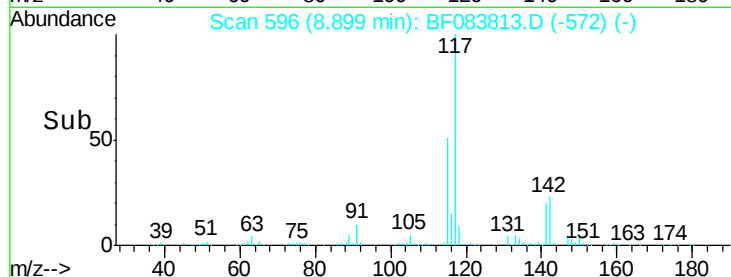
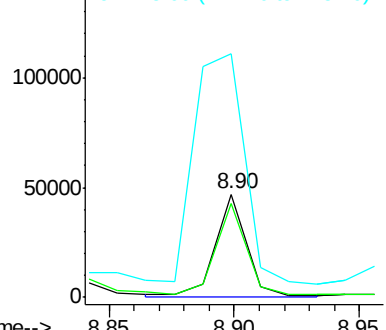
#37
2-Methylnaphthalene
Concen: 3.07 ng/ml
RT: 8.90 min Scan# 596
Delta R.T. -0.02 min
Lab File: BF083813.D
Acq: 15 Dec 2015 12:25

Instrument :
BNA_F
ClientSampleId :
WC121015-SOIL-POPH

Tot Ion:142 Resp: 41961
Ion Ratio Lower Upper
142 100
141 90.1 70.3 105.5
115 235.4 29.2 43.8#

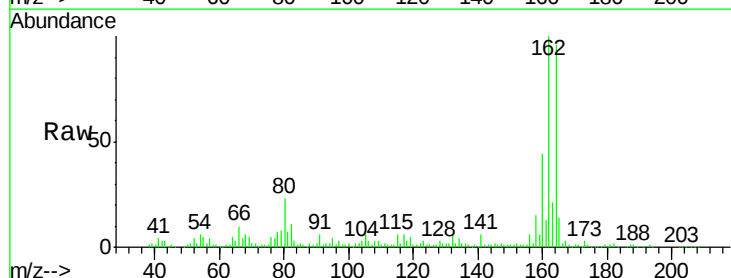


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

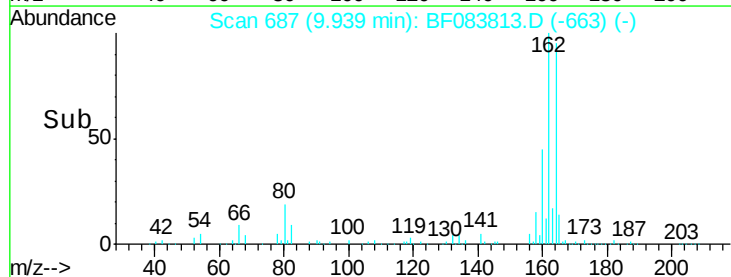
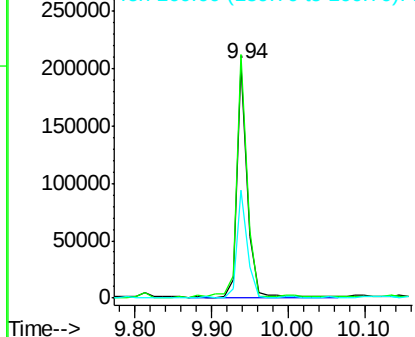


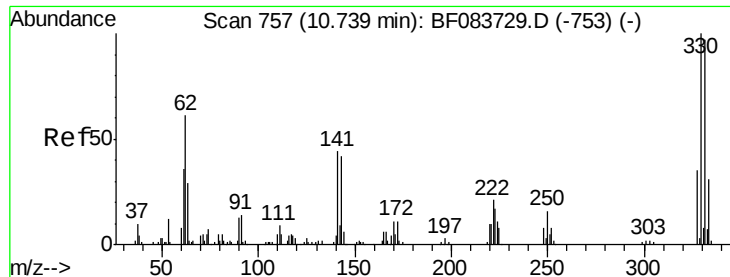
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.94 min Scan# 687
Delta R.T. -0.02 min
Lab File: BF083813.D
Acq: 15 Dec 2015 12:25

Tgt Ion:164 Resp: 196884
Ion Ratio Lower Upper
164 100
162 104.2 78.8 118.2
160 46.3 33.4 50.2



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

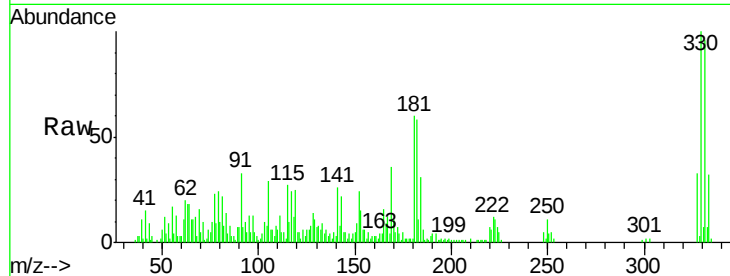




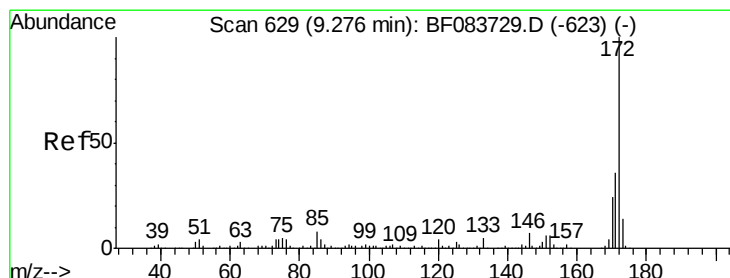
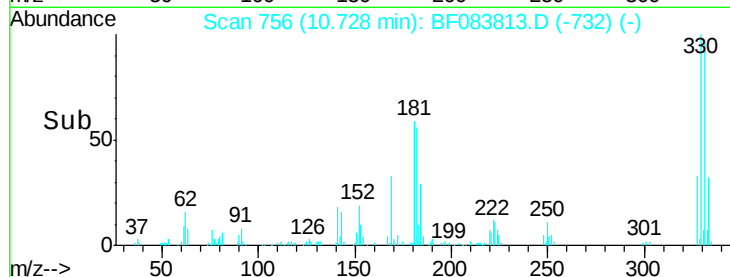
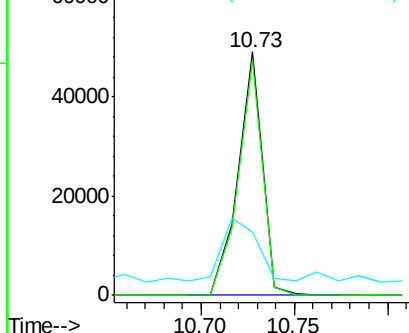
#41
 2,4,6-Tribromophenol
 Concen: 22.37 ng
 RT: 10.73 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: BF083813.D
 Acq: 15 Dec 2015 12:25

Instrument :
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 ClientSampleId :
 WC121015-SOIL-POPH

Tot Ion:330 Resp: 44871
 Ion Ratio Lower Upper
 330 100
 332 95.3 0.0 0.0#
 141 37.1 0.0 0.0#

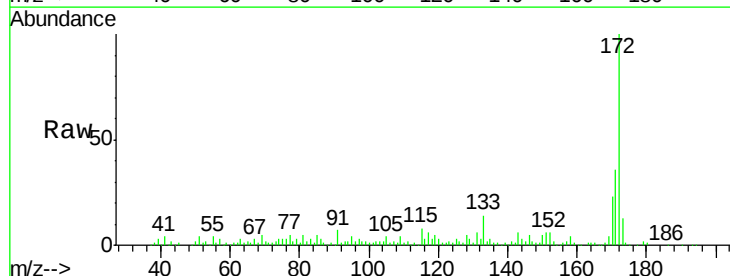


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

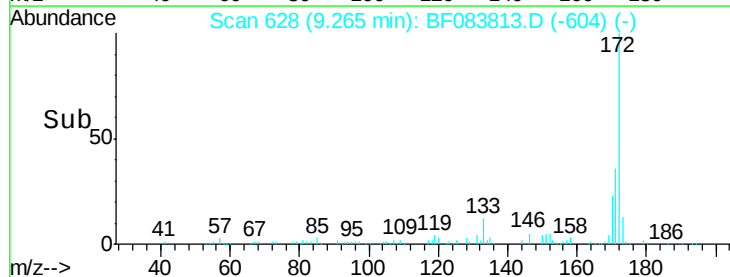
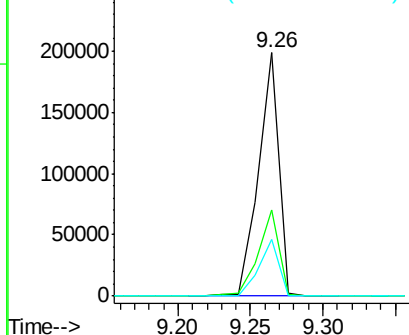


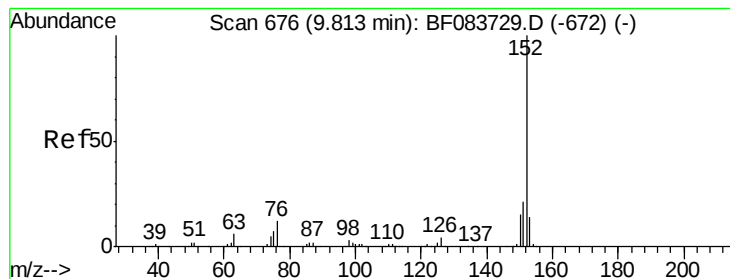
#44
 2-Fluorobiphenyl
 Concen: 12.11 ng
 RT: 9.26 min Scan# 628
 Delta R.T. -0.02 min
 Lab File: BF083813.D
 Acq: 15 Dec 2015 12:25

Tgt Ion:172 Resp: 193481
 Ion Ratio Lower Upper
 172 100
 171 35.6 28.6 42.8
 170 23.2 19.4 29.0



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





#48

Acenaphthylene

Concen: 12.55 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

Instrument :

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ClientSampleId :

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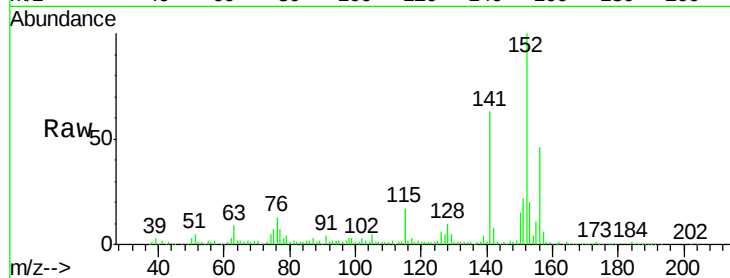
Tot Ion:152 Resp: 271900

Ion Ratio Lower Upper

152 100

151 21.7 16.3 24.5

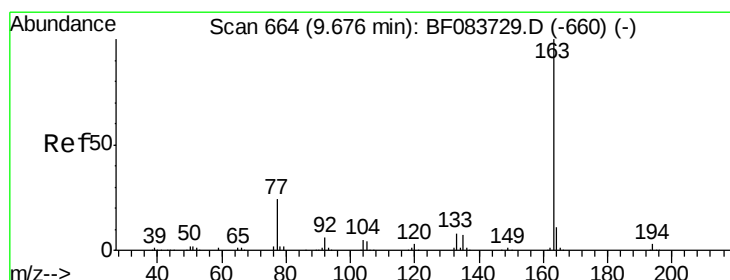
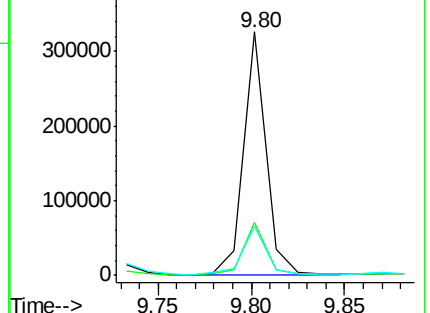
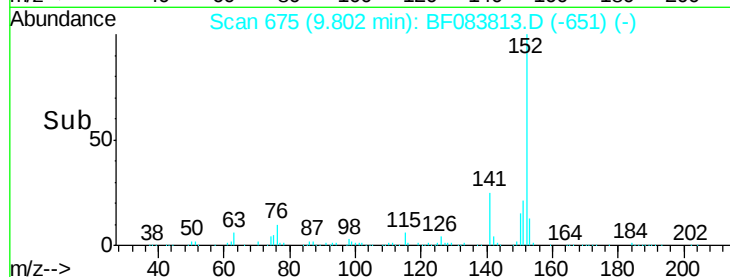
153 20.0 10.8 16.2#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 3.47 ng

RT: 9.65 min Scan# 662

Delta R.T. -0.03 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

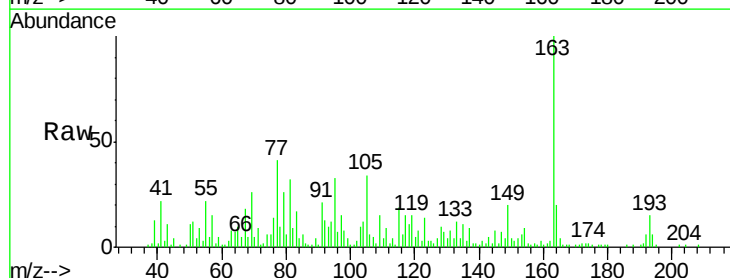
Tgt Ion:163 Resp: 53270

Ion Ratio Lower Upper

163 100

194 6.1 2.8 4.2#

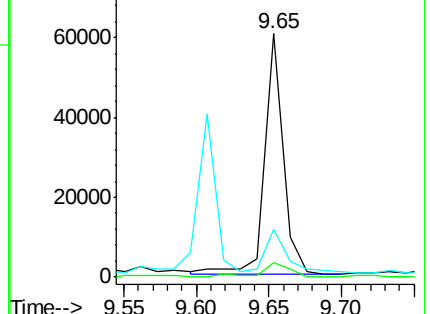
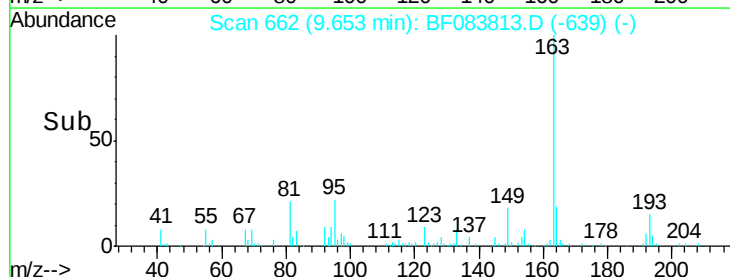
164 19.6 8.6 13.0#

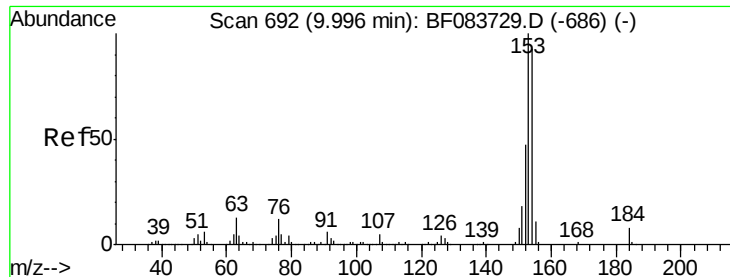


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 10.76 ng

RT: 9.97 min Scan# 690

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

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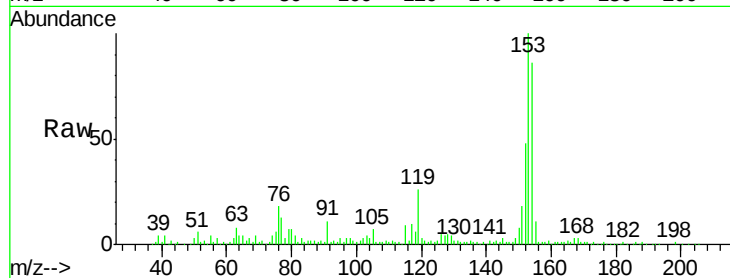
Tot Ion:154 Resp: 140968

Ion Ratio Lower Upper

154 100

153 115.9 91.4 137.0

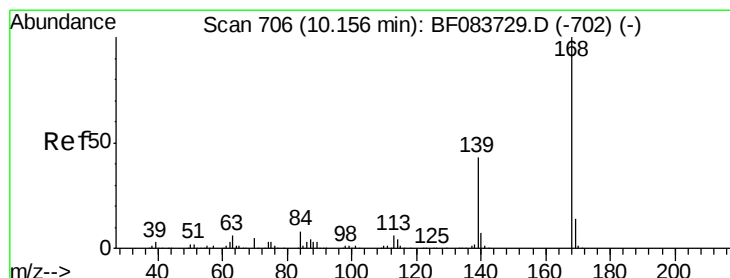
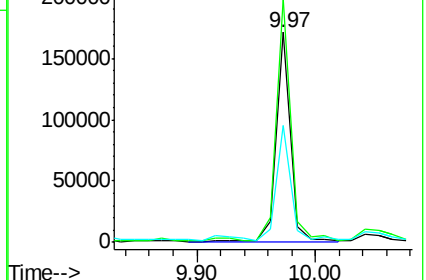
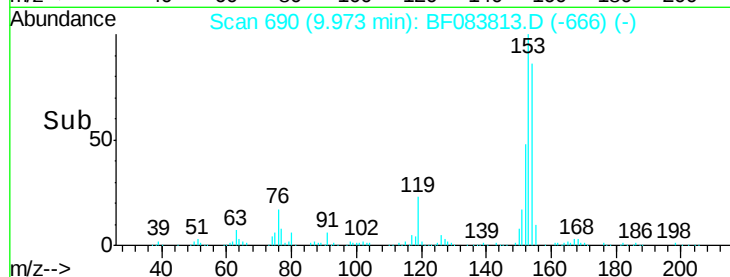
152 55.7 43.4 65.2



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: 3.19 ng

RT: 10.14 min Scan# 705

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

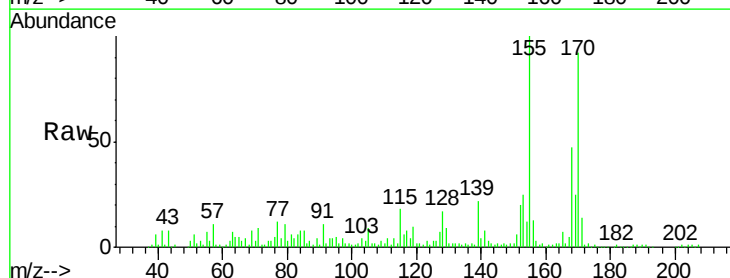
Tgt Ion:168 Resp: 55429

Ion Ratio Lower Upper

168 100

139 47.7 28.0 42.0#

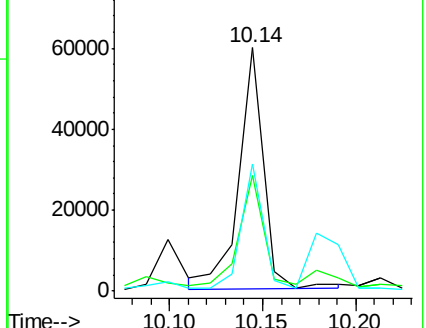
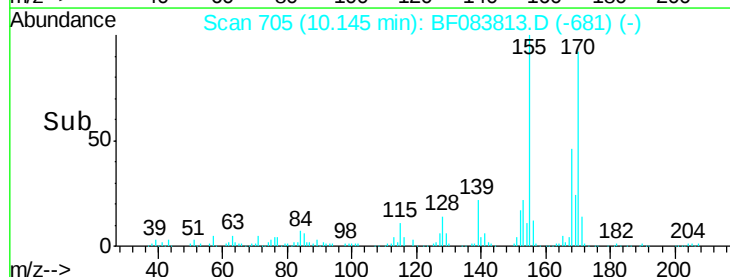
169 52.2 10.8 16.2#

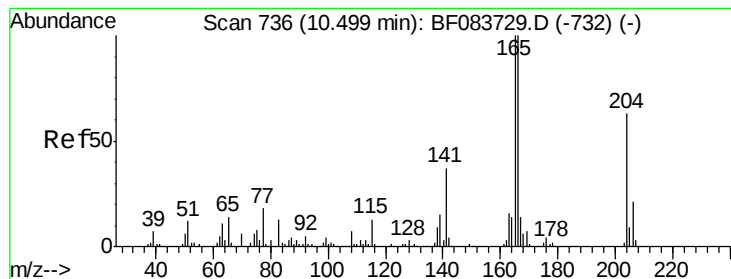


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 3.97 ng/mL

RT: 10.49 min Scan# 735

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

Instrument :

BNA_F

ClientSampleId :

WC121015-SOIL-POPH

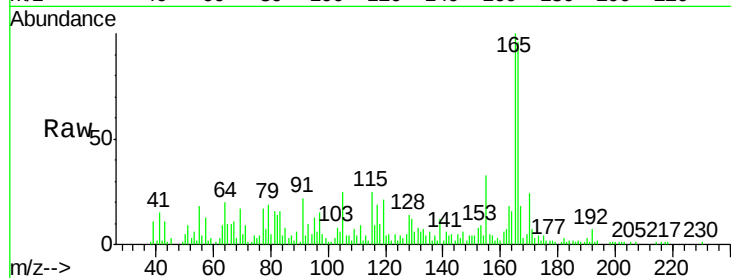
Tot Ion:166 Resp: 54244

Ion Ratio Lower Upper

166 100

165 104.7 80.0 120.0

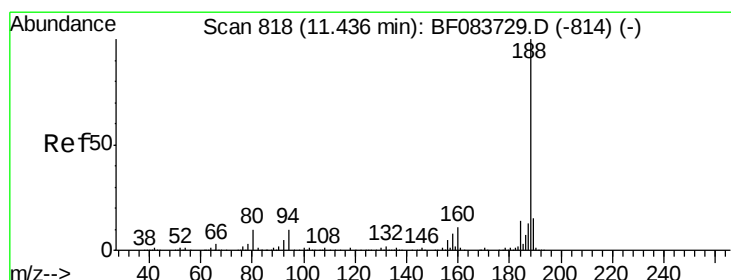
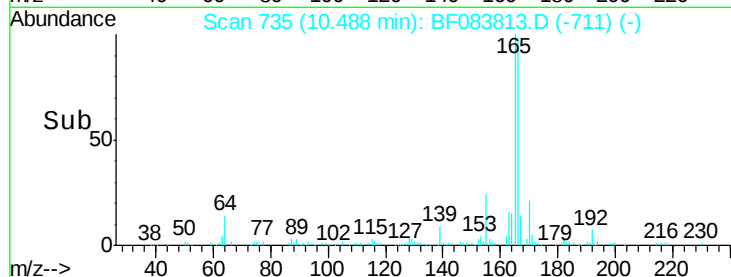
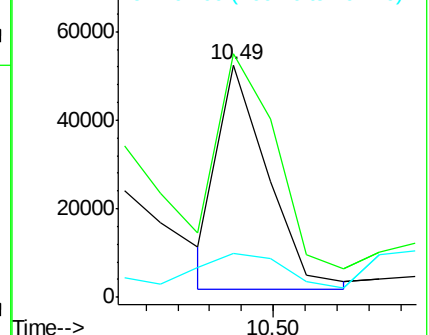
167 19.1 10.6 16.0#



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: 11.42 min Scan# 817

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

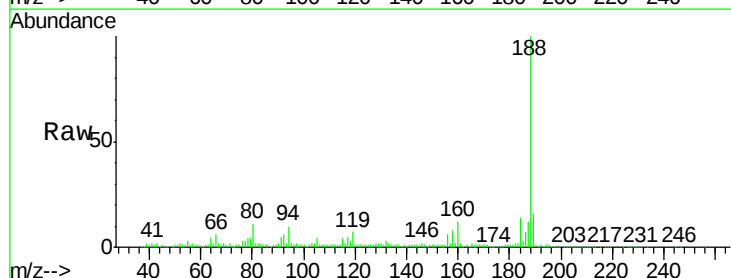
Tgt Ion:188 Resp: 301164

Ion Ratio Lower Upper

188 100

94 10.0 9.4 14.2

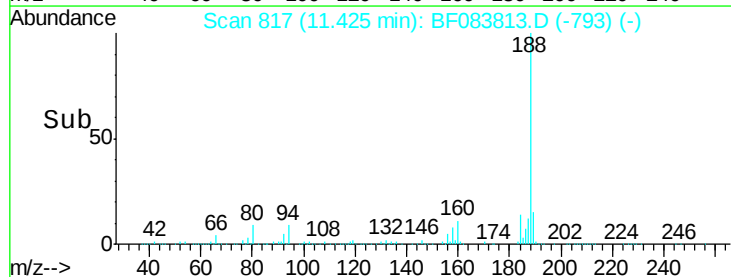
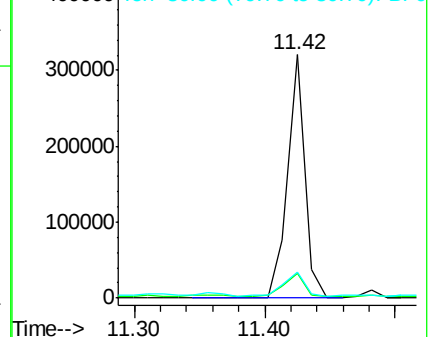
80 10.6 10.6 16.0#

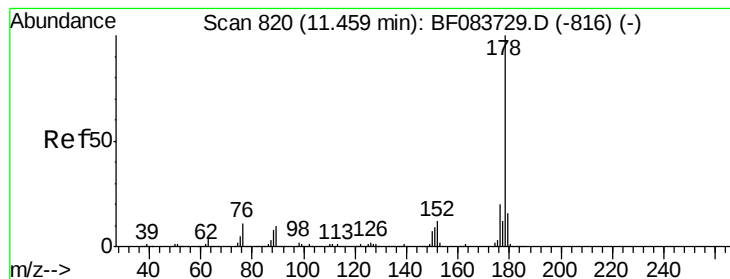


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 54.99 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

Instrument :

BNA_F

ClientSampleId :

WC121015-SOIL-POPH

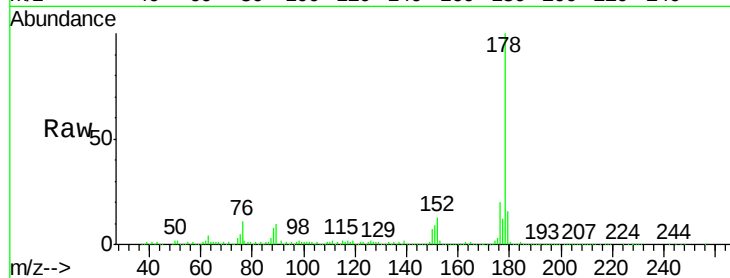
Tot Ion:178 Resp: 879827

Ion Ratio Lower Upper

178 100

176 19.8 15.7 23.5

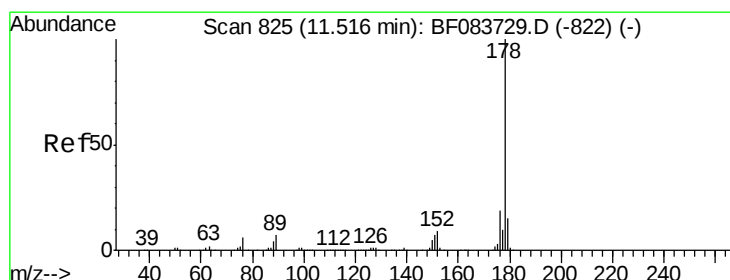
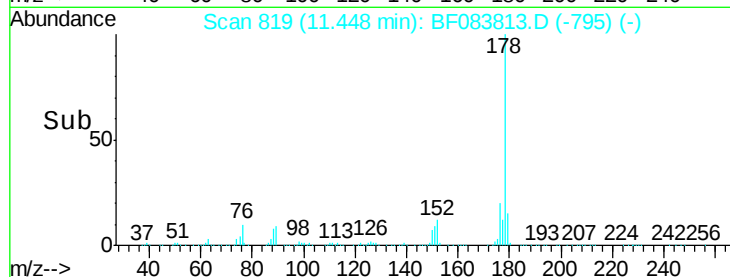
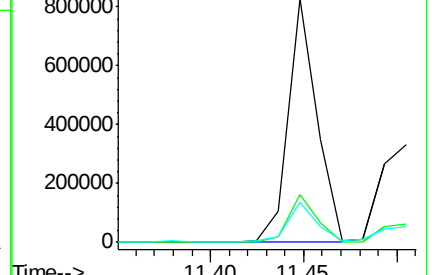
179 16.2 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 25.14 ng

RT: 11.50 min Scan# 824

Delta R.T. -0.01 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

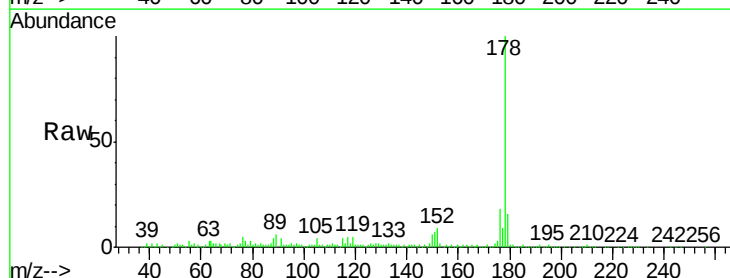
Tgt Ion:178 Resp: 417748

Ion Ratio Lower Upper

178 100

176 18.2 15.2 22.8

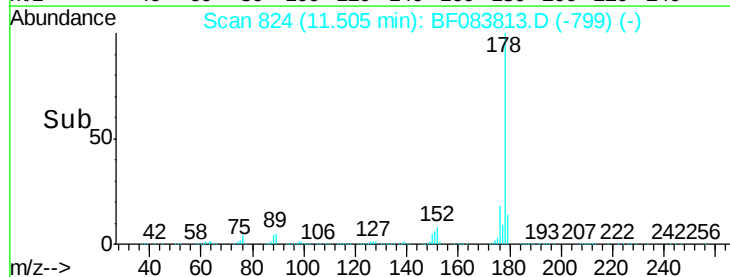
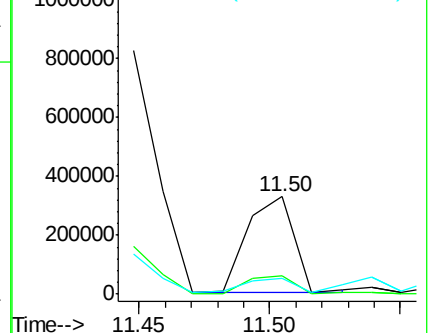
179 15.6 12.6 18.8

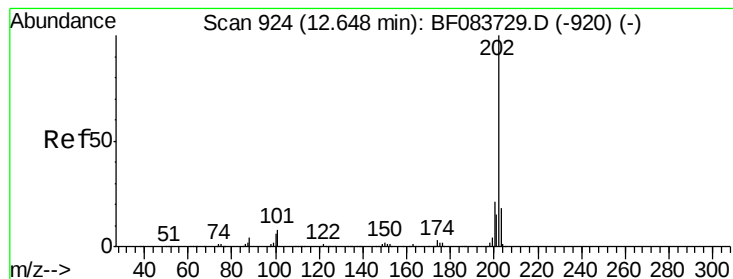


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 23.89 ng

RT: 12.65 min Scan# 924

Delta R.T. 0.00 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

Instrument :

BNA_F

ClientSampleId :

WC121015-SOIL-POPH

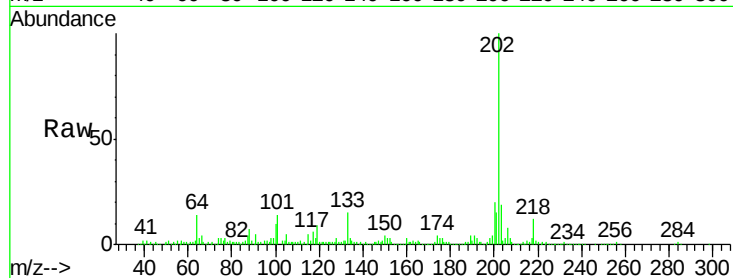
Tot Ion:202 Resp: 394874

Ion Ratio Lower Upper

202 100

101 14.3 0.0 31.5

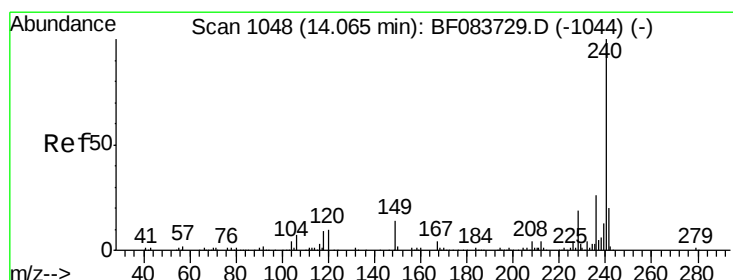
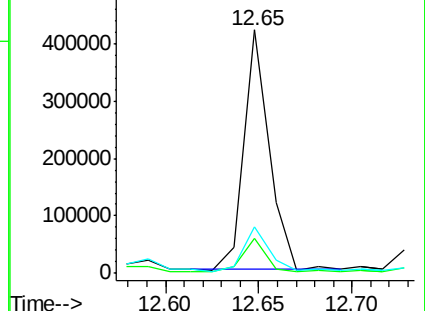
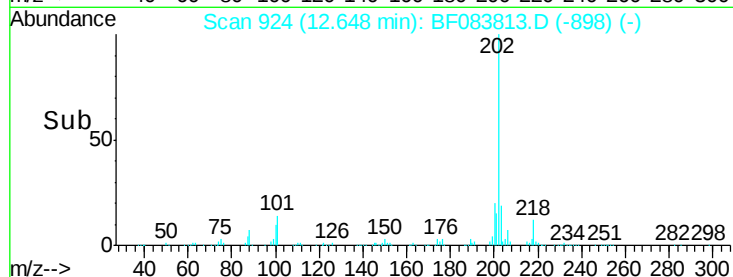
203 19.2 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 1047

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

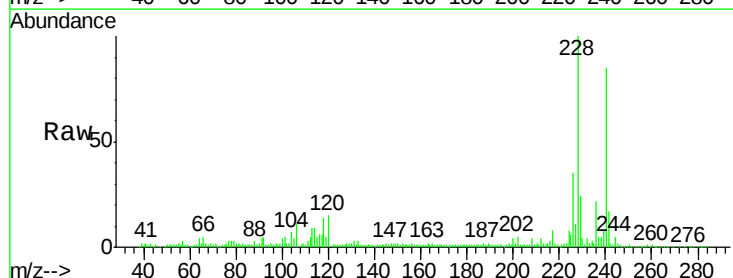
Tgt Ion:240 Resp: 228214

Ion Ratio Lower Upper

240 100

120 18.3 8.1 12.1#

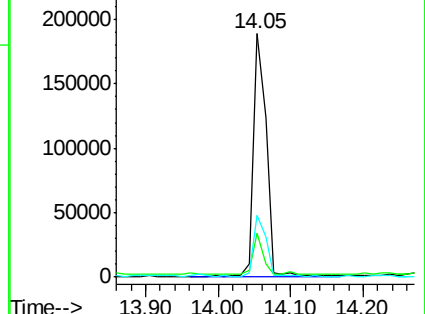
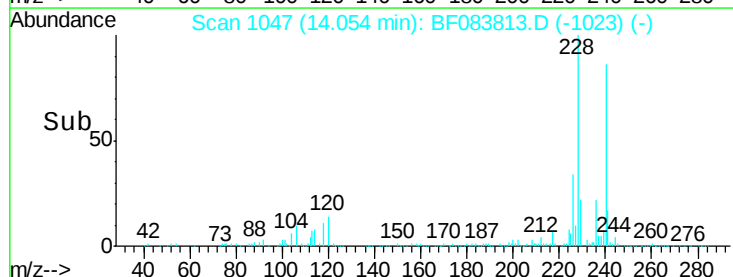
236 25.6 20.8 31.2

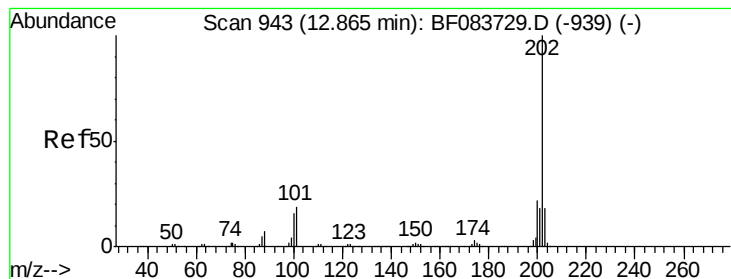


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 36.17 ng

RT: 12.86 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

Instrument :

BNA_F

ClientSampleId :

WC121015-SOIL-POPH

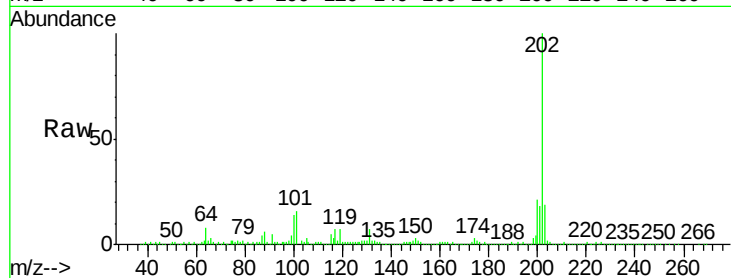
Tot Ion:202 Resp: 652345

Ion Ratio Lower Upper

202 100

200 21.4 16.7 25.1

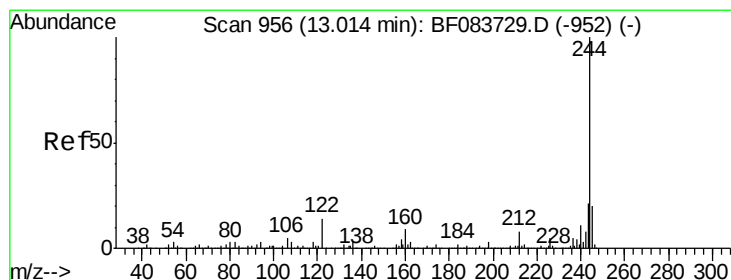
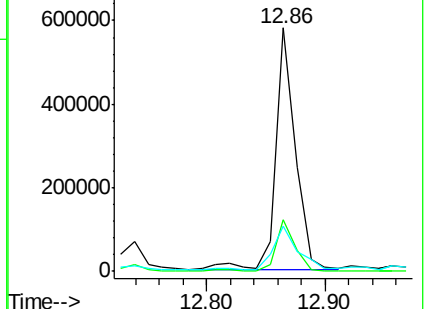
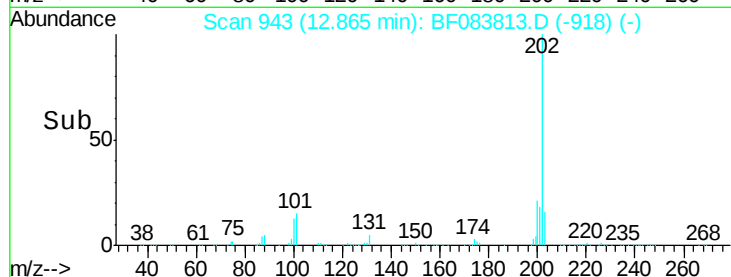
203 18.8 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 11.63 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

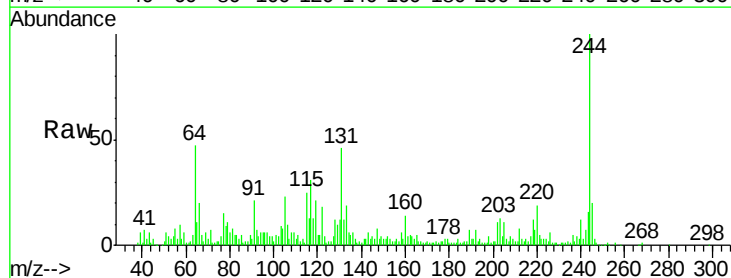
Tgt Ion:244 Resp: 123398

Ion Ratio Lower Upper

244 100

212 7.7 6.1 9.1

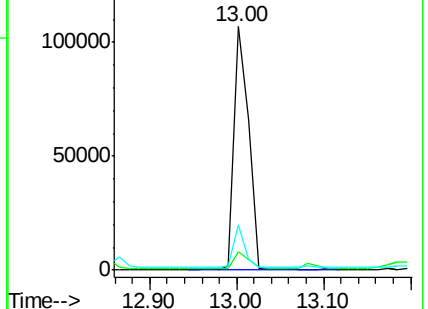
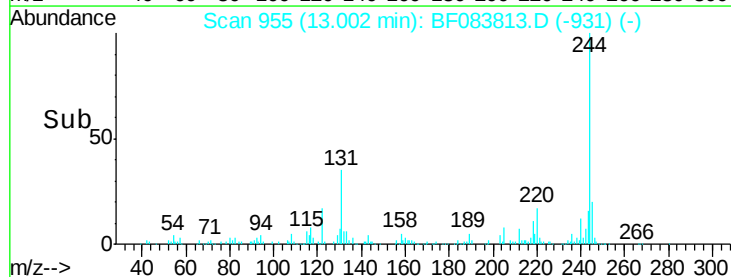
122 18.4 11.0 16.6#

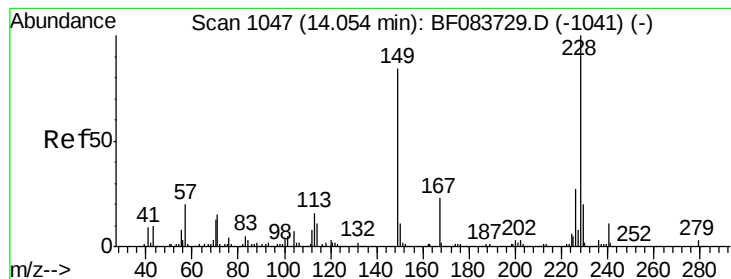


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 28.60 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.02 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

Instrument :

BNA_F

ClientSampleId :

WC121015-SOIL-POPH

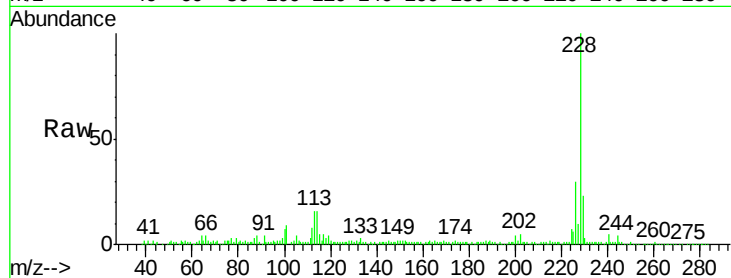
Tot Ion:228 Resp: 371159

Ion Ratio Lower Upper

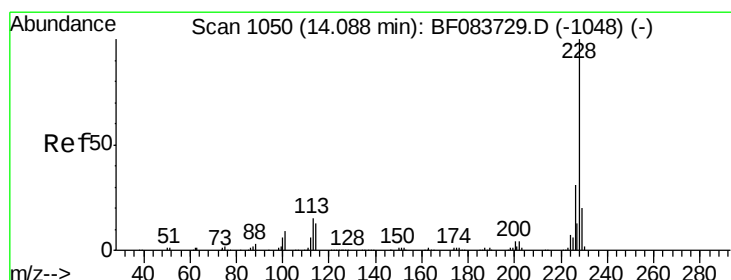
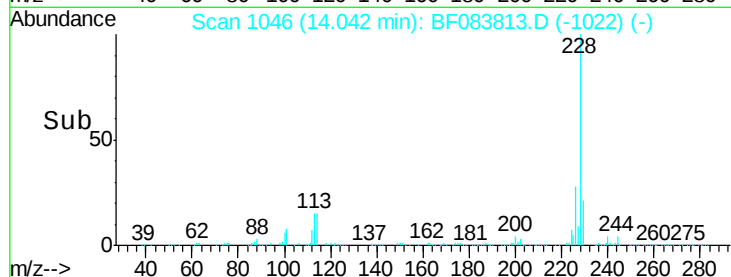
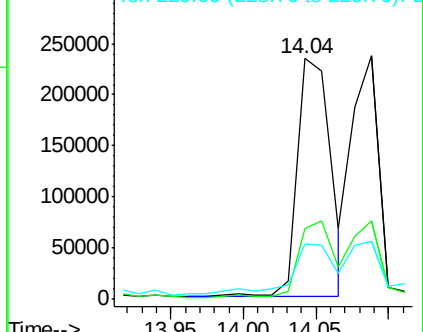
228 100

226 29.6 22.3 33.5

229 23.1 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 23.29 ng m

RT: 14.09 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

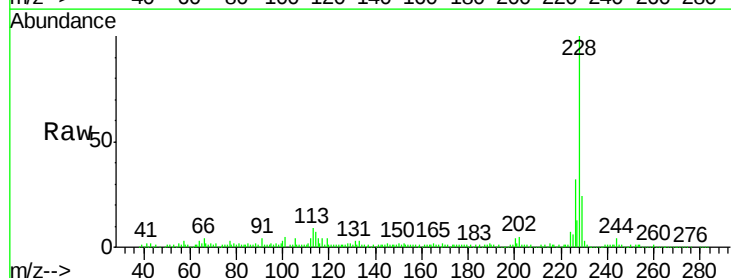
Tgt Ion:228 Resp: 294764

Ion Ratio Lower Upper

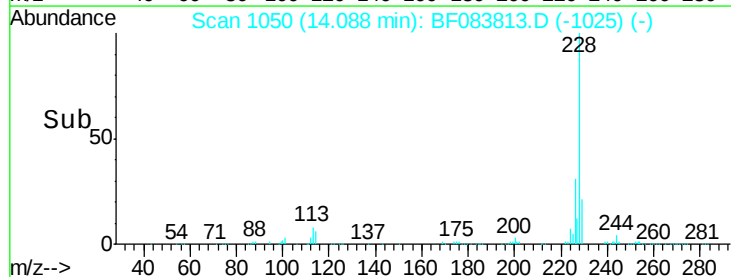
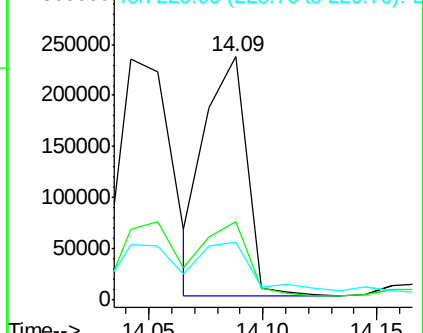
228 100

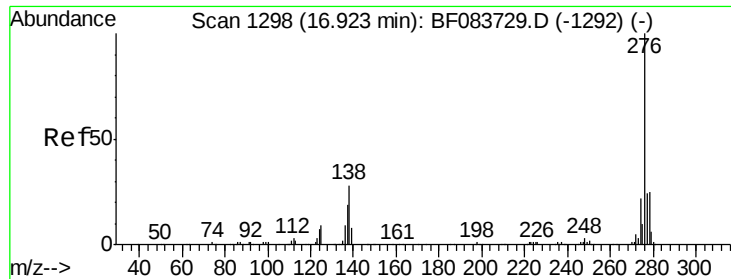
226 32.5 24.7 37.1

229 23.8 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 4.99 ng

RT: 16.91 min Scan# 1297

Delta R.T. -0.03 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

Instrument :

BNA_F

ClientSampleId :

WC121015-SOIL-POPH

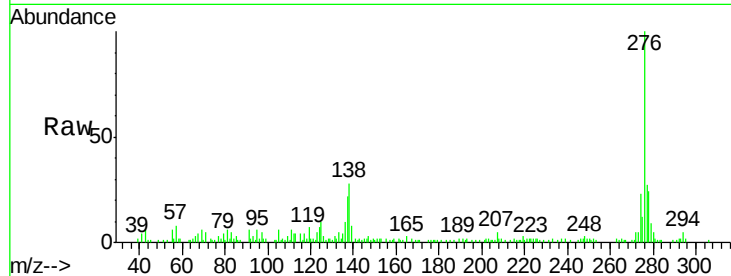
Tot Ion:276 Resp: 62056

Ion Ratio Lower Upper

276 100

138 27.8 0.0 0.0#

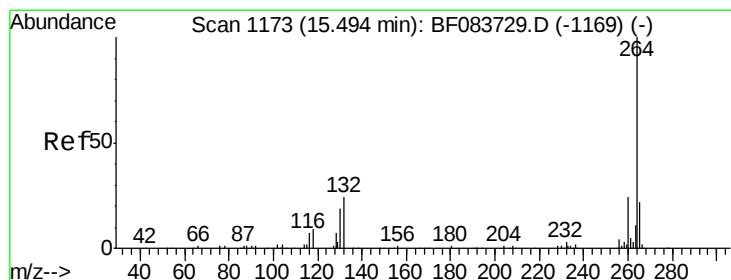
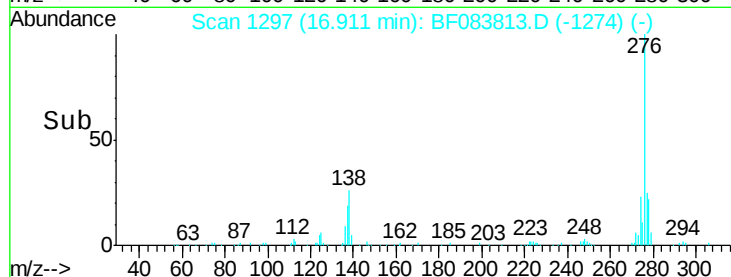
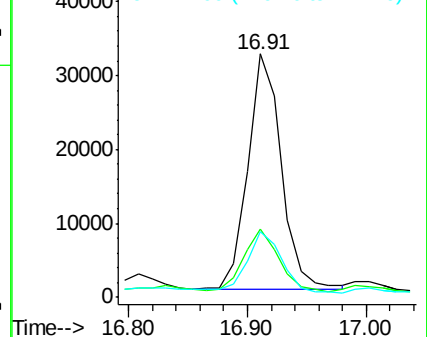
277 27.9 0.0 0.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.49 min Scan# 1173

Delta R.T. -0.01 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

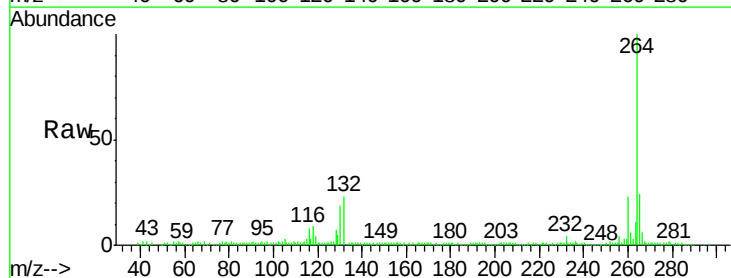
Tgt Ion:264 Resp: 239192

Ion Ratio Lower Upper

264 100

260 23.1 19.4 29.0

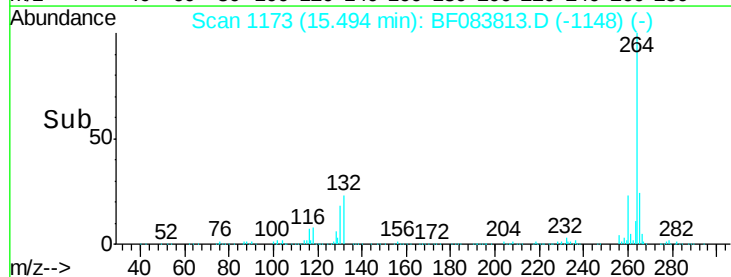
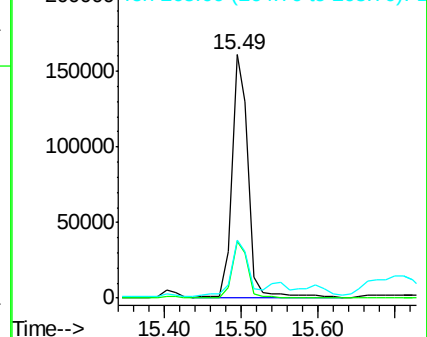
265 24.0 17.8 26.6

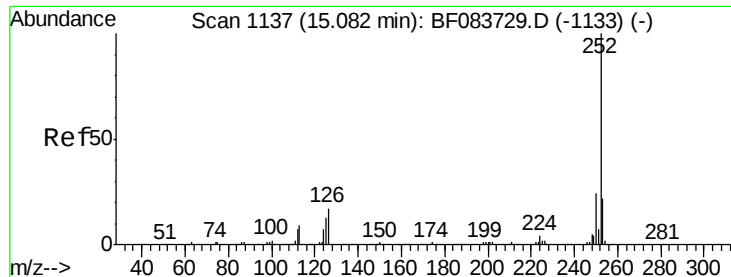


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

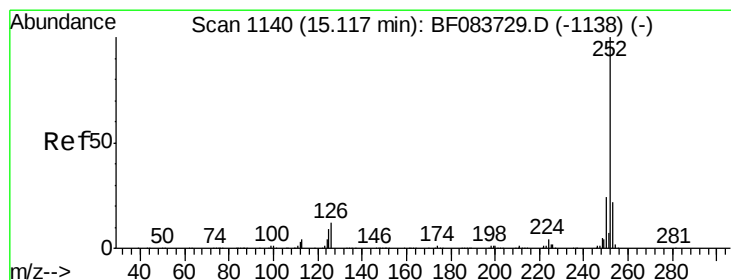
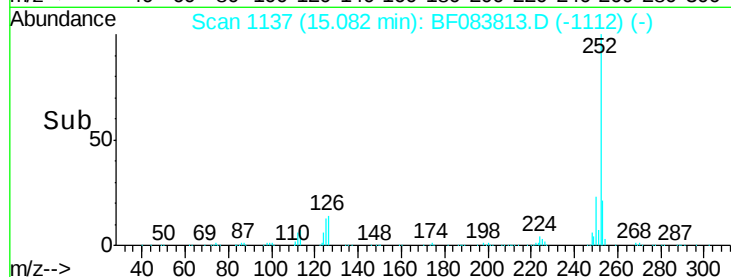
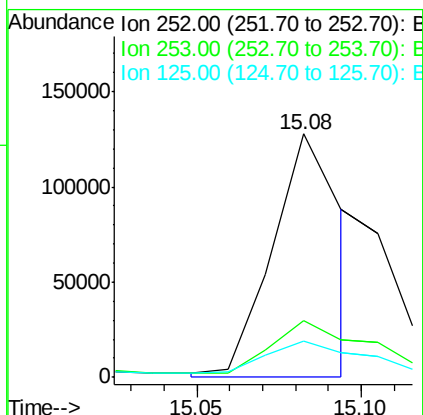
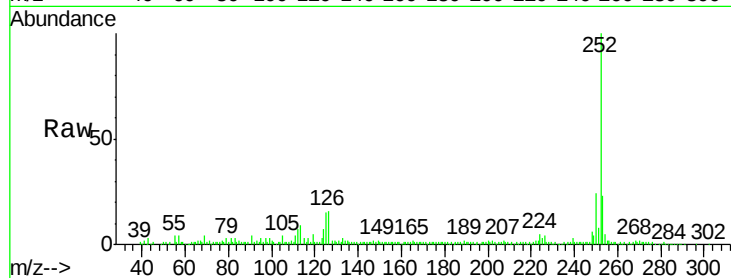




#87
Benzo(b)fluoranthene
Concen: 12.35 ng m
RT: 15.08 min Scan# 1137
Delta R.T. -0.01 min
Lab File: BF083813.D
Acq: 15 Dec 2015 12:25

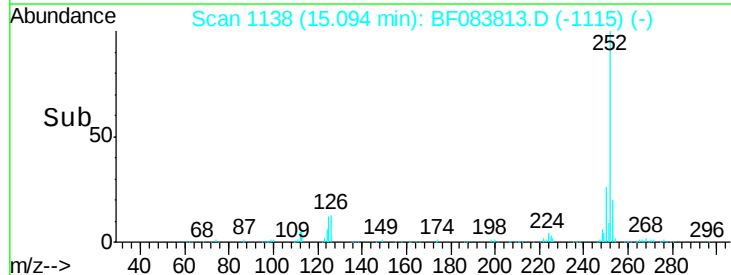
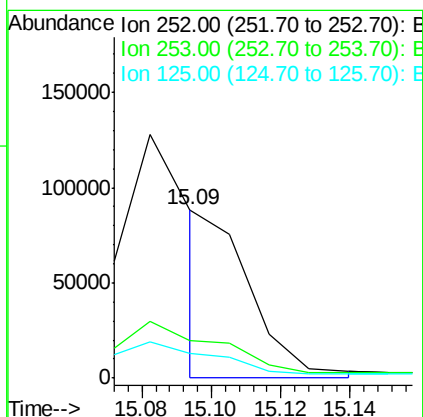
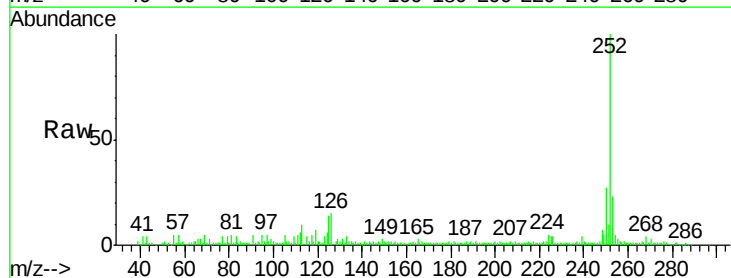
Instrument :
BNA_F
ClientSampleId :
WC121015-SOIL-POPH

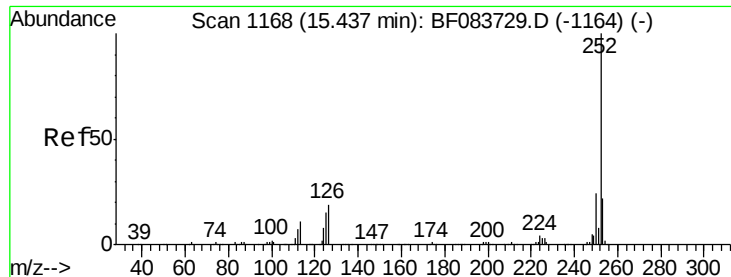
Tot Ion:252 Resp: 188444
Ion Ratio Lower Upper
252 100
253 23.2 18.2 27.4
125 14.8 8.2 12.4#



#88
Benzo(k)fluoranthene
Concen: 5.30 ng m
RT: 15.09 min Scan# 1138
Delta R.T. -0.03 min
Lab File: BF083813.D
Acq: 15 Dec 2015 12:25

Tgt Ion:252 Resp: 73257
Ion Ratio Lower Upper
252 100
253 22.6 18.6 27.8
125 14.5 11.5 17.3





#89

Benzo(a)pyrene

Concen: 15.20 ng

RT: 15.44 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

Instrument :

BNA_F

ClientSampleId :

WC121015-SOIL-POPH

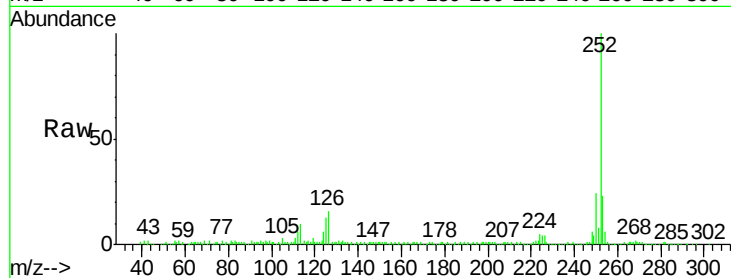
Tot Ion:252 Resp: 207010

Ion Ratio Lower Upper

252 100

253 22.5 17.5 26.3

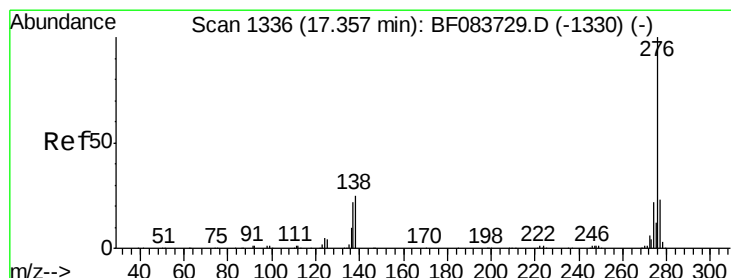
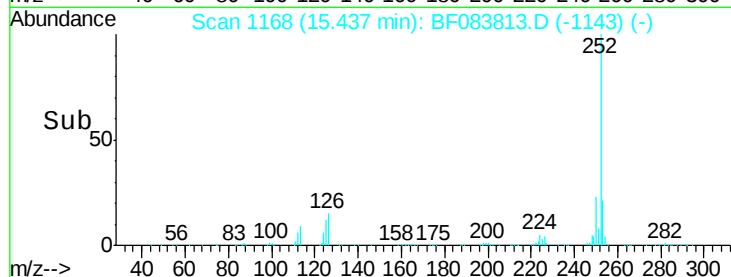
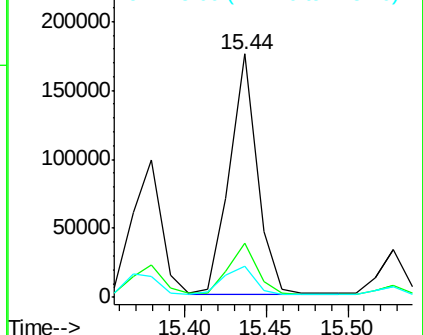
125 12.7 11.0 16.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 4.77 ng

RT: 17.35 min Scan# 1335

Delta R.T. -0.03 min

Lab File: BF083813.D

Acq: 15 Dec 2015 12:25

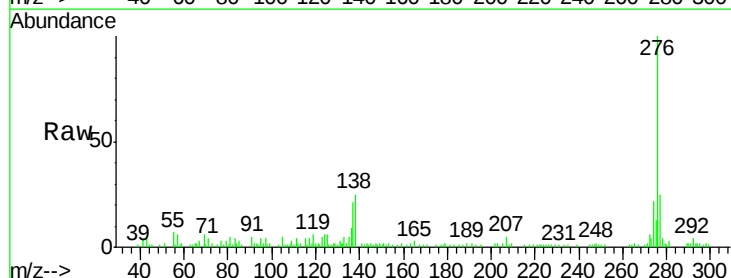
Tgt Ion:276 Resp: 66364

Ion Ratio Lower Upper

276 100

277 24.7 19.2 28.8

138 24.6 19.5 29.3



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

