

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092016\
 Data File : BF090148.D
 Acq On : 20 Sep 2016 21:55
 Operator : UM/SJ
 Sample : H4850-01 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FHEPA-01(BOTTOM)

Quant Time: Sep 21 09:37:28 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 20 17:58:29 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.51	152	157625	20.00	ng	-0.01
21) Naphthalene-d8	7.80	136	643941	20.00	ng	-0.01
38) Acenaphthene-d10	9.55	164	331618	20.00	ng	0.00
63) Phenanthrene-d10	11.02	188	417403	20.00	ng	-0.01
75) Chrysene-d12	13.63	240	288968	20.00	ng	0.00
86) Perylene-d12	14.96	264	319350	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.07	112	83366	8.62	ng	0.00
7) Phenol-d6	6.16	99	122753	10.28	ng	-0.01
23) Nitrobenzene-d5	7.08	82	66286	5.97	ng	-0.01
41) 2,4,6-Tribromophenol	10.33	330	18375	6.46	ng	-0.01
44) 2-Fluorobiphenyl	8.89	172	142136	8.41	ng	0.00
78) Terphenyl-d14	12.59	244	84628	7.44	ng	-0.01

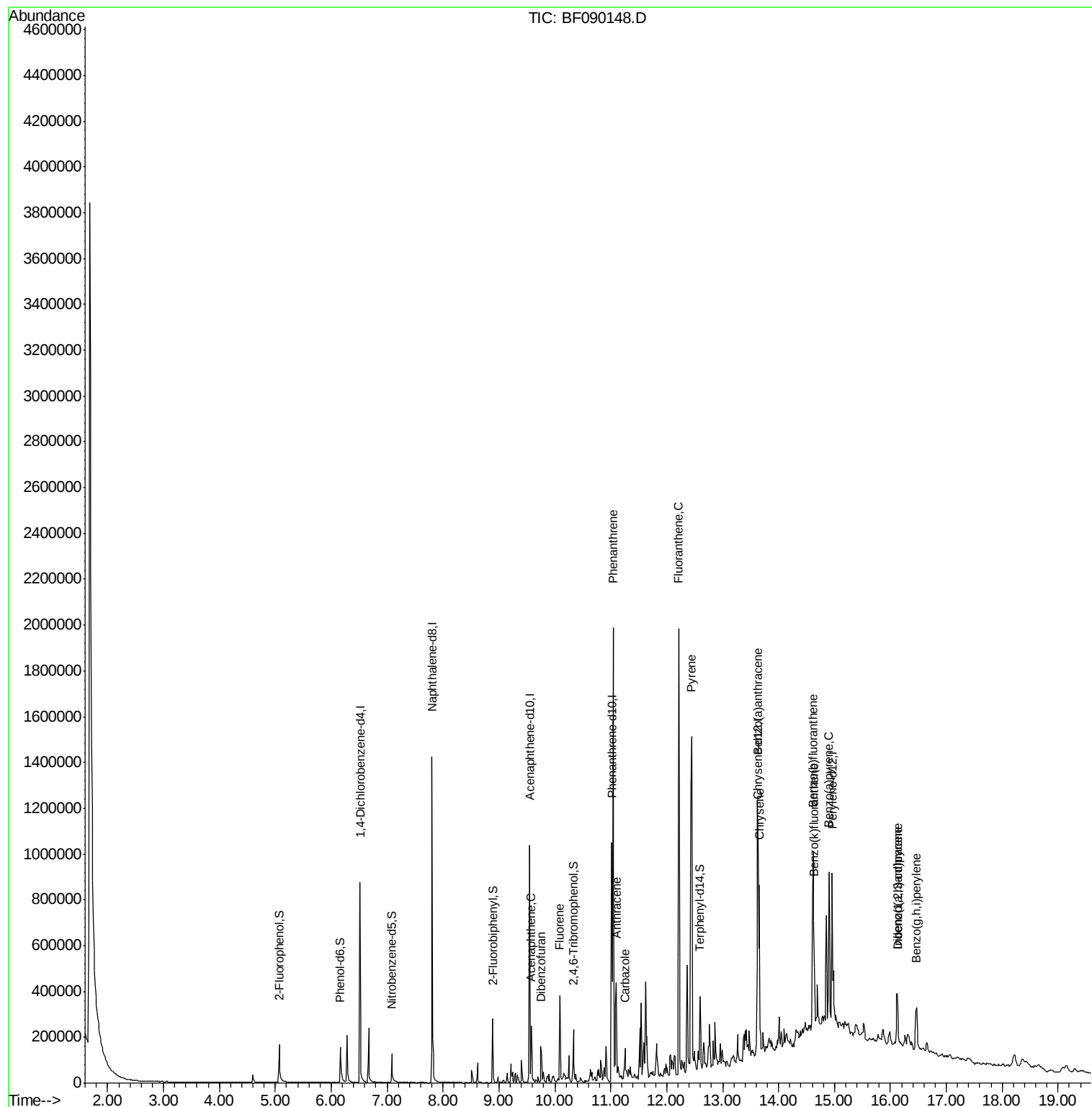
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
51) Acenaphthene	9.58	154	57850	3.43	ng	98
54) Dibenzofuran	9.75	168	87853	3.96	ng	95
57) Fluorene	10.09	166	111058	6.64	ng	99
70) Phenanthrene	11.04	178	901698	46.19	ng	100
71) Anthracene	11.10	178	258581	12.63	ng	98
72) Carbazole	11.26	167	90831	4.20	ng	98
74) Fluoranthene	12.22	202	832297	39.72	ng	99
77) Pyrene	12.45	202	774958	39.19	ng	99
80) Benzo(a)anthracene	13.62	228	357928m	23.02	ng	
82) Chrysene	13.66	228	328559m	21.70	ng	
85) Indeno(1,2,3-cd)pyrene	16.13	276	166395	13.59	ng	96
87) Benzo(b)fluoranthene	14.62	252	473206m	26.76	ng	
88) Benzo(k)fluoranthene	14.63	252	108128m	6.52	ng	
89) Benzo(a)pyrene	14.90	252	310115	18.64	ng	# 92
90) Dibenzo(a,h)anthracene	16.13	278	37257m	2.87	ng	
91) Benzo(g,h,i)perylene	16.47	276	148211	11.67	ng	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.51 min Scan# 431

Delta R.T. -0.01 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

Instrument :

BNA_F

ClientSampleId :

FHEPA-01(BOTTOM)

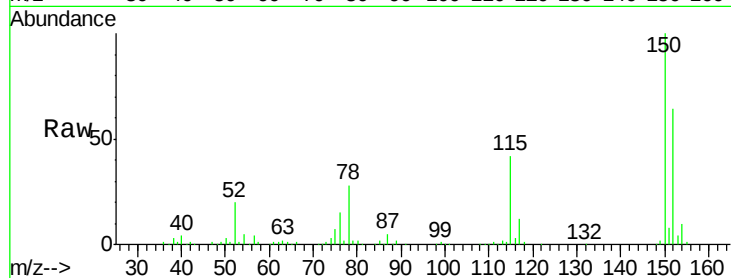
Tgt Ion:152 Resp: 157625

Ion Ratio Lower Upper

152 100

150 157.5 128.9 193.3

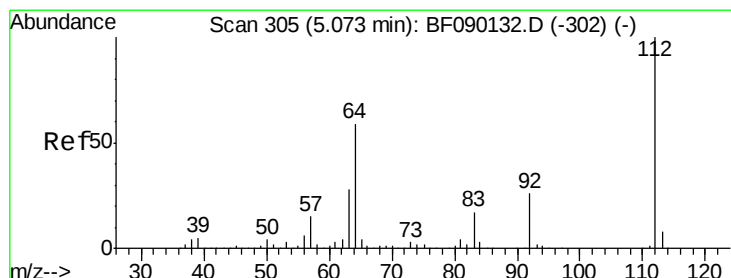
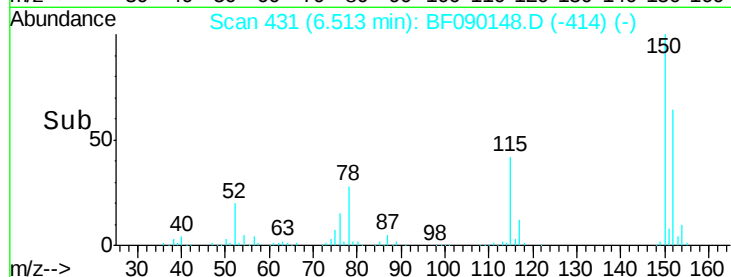
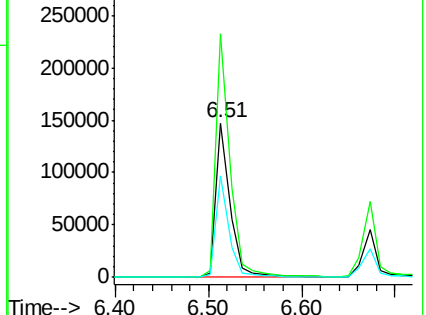
115 65.9 55.5 83.3



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: 8.62 ng

RT: 5.07 min Scan# 305

Delta R.T. 0.00 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

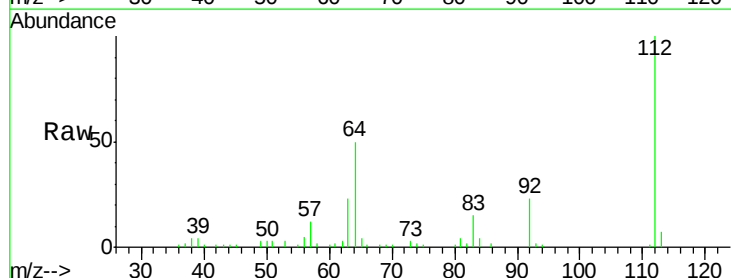
Tgt Ion:112 Resp: 83366

Ion Ratio Lower Upper

112 100

64 50.0 39.8 59.6

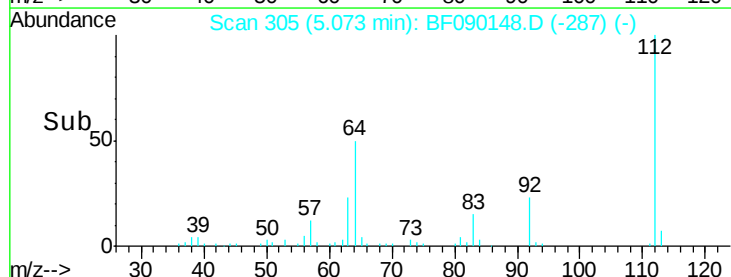
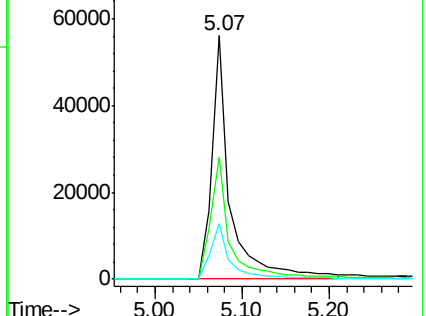
63 22.8 18.9 28.3



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: 10.28 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

Instrument :

BNA_F

ClientSampleId :

FHEPA-01(BOTTOM)

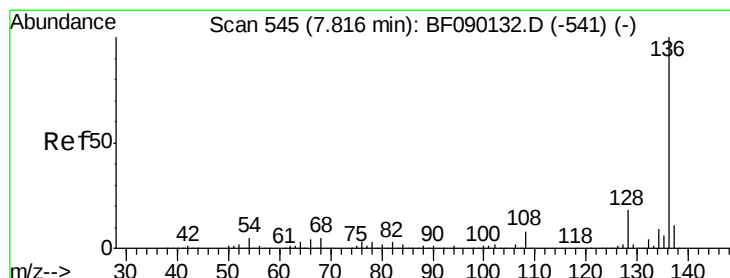
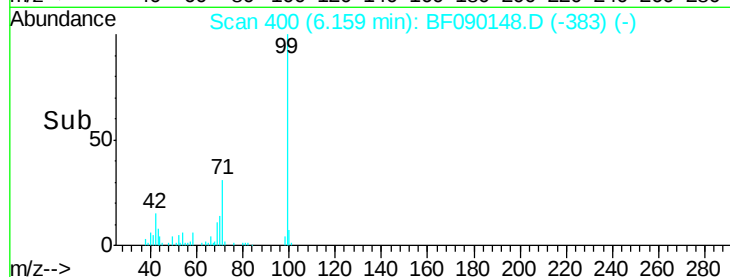
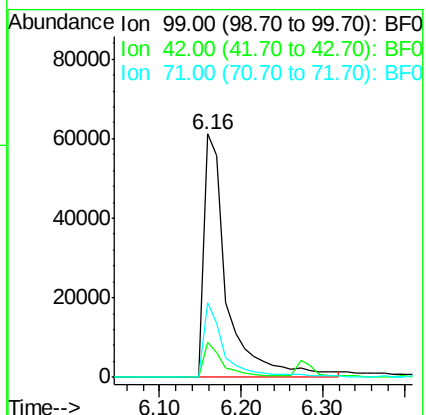
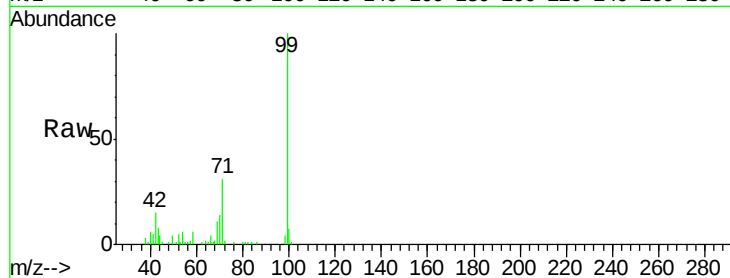
Tgt Ion: 99 Resp: 122753

Ion Ratio Lower Upper

99 100

42 14.6 10.6 15.8

71 30.8 23.0 34.6



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.80 min Scan# 544

Delta R.T. -0.01 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

Tgt Ion: 136 Resp: 643941

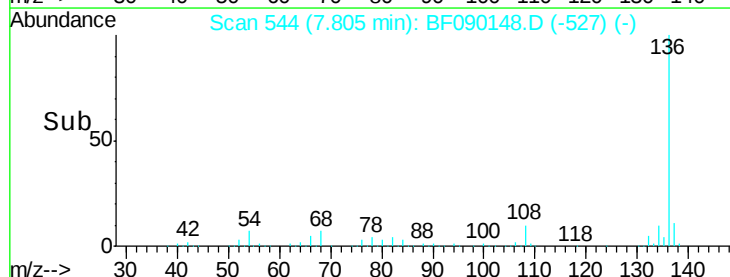
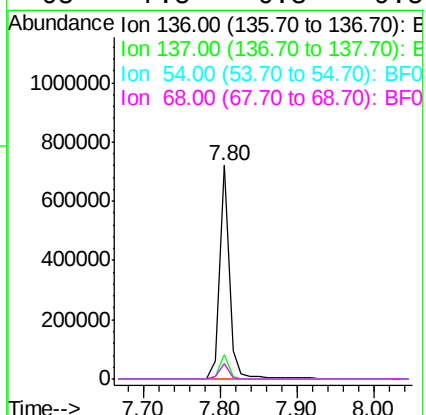
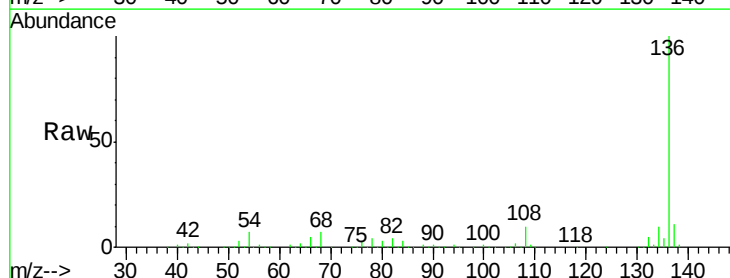
Ion Ratio Lower Upper

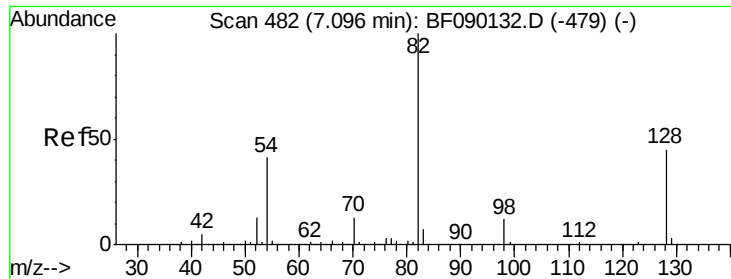
136 100

137 11.2 9.0 13.4

54 7.4 6.4 9.6

68 7.5 6.3 9.5

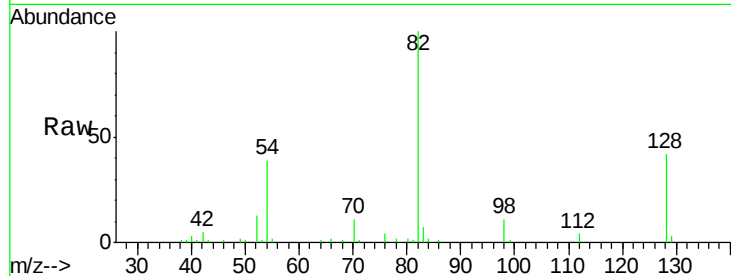




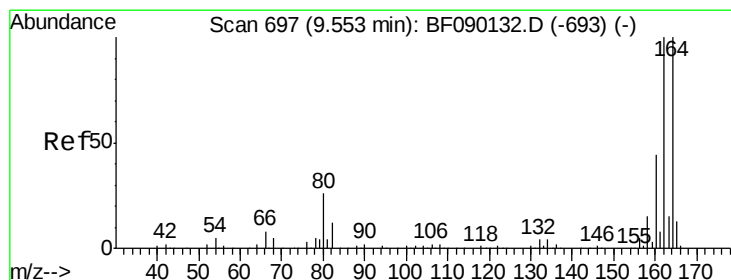
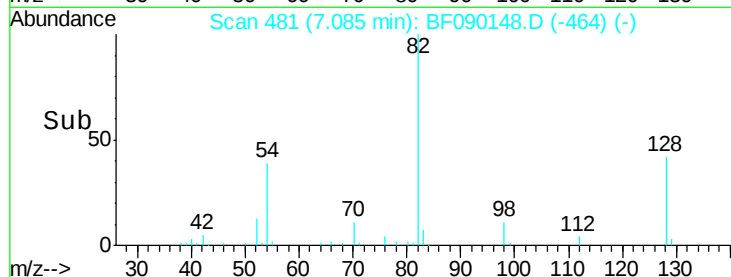
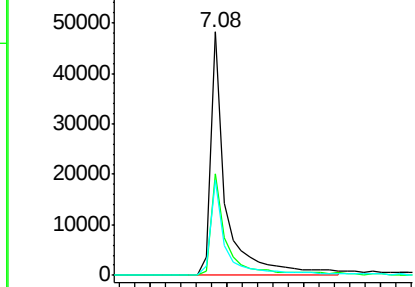
#23
 Nitrobenzene-d5
 Concen: 5.97 ng
 RT: 7.08 min Scan# 481
 Delta R.T. -0.01 min
 Lab File: BF090148.D
 Acq: 20 Sep 2016 21:55

Instrument :
 BNA_F
 ClientSampleId :
 FHEPA-01(BOTTOM)

Tgt Ion: 82 Resp: 66286
 Ion Ratio Lower Upper
 82 100
 128 41.9 37.5 56.3
 54 38.9 31.9 47.9

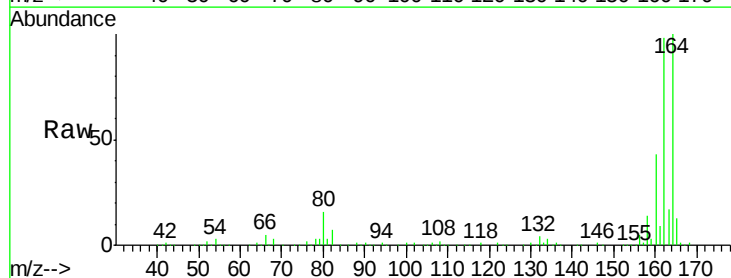


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

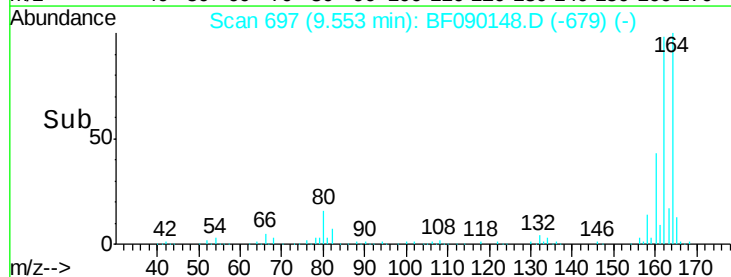
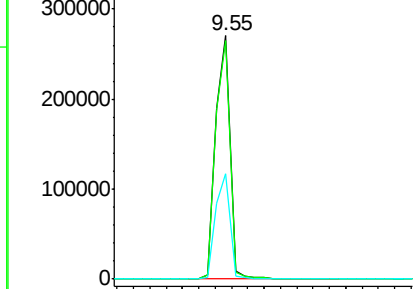


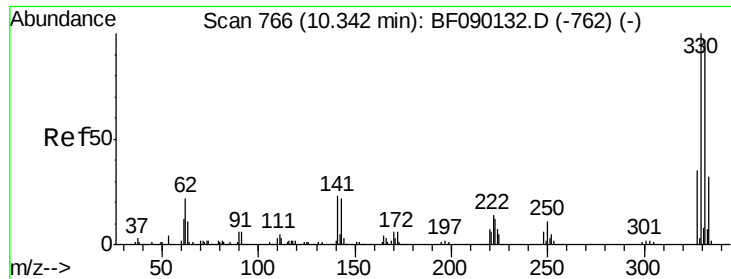
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.55 min Scan# 697
 Delta R.T. 0.00 min
 Lab File: BF090148.D
 Acq: 20 Sep 2016 21:55

Tgt Ion: 164 Resp: 331618
 Ion Ratio Lower Upper
 164 100
 162 97.7 81.4 122.2
 160 43.1 36.6 54.8



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

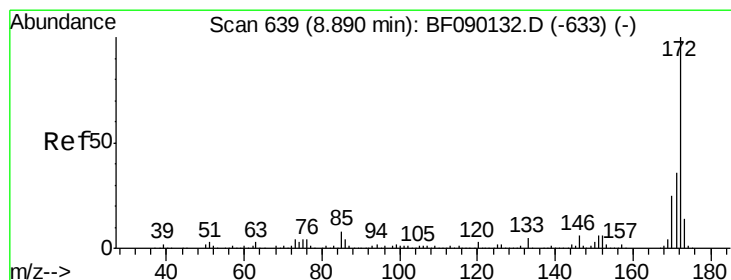
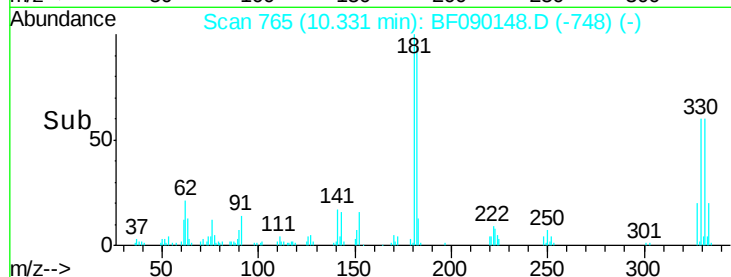
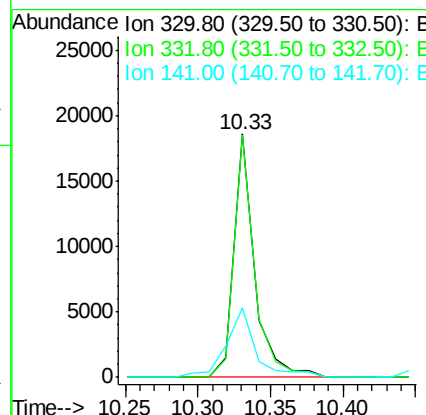
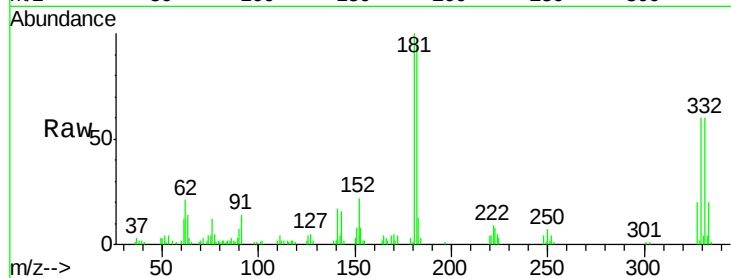




#41
 2,4,6-Tribromophenol
 Concen: 6.46 ng
 RT: 10.33 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: BF090148.D
 Acq: 20 Sep 2016 21:55

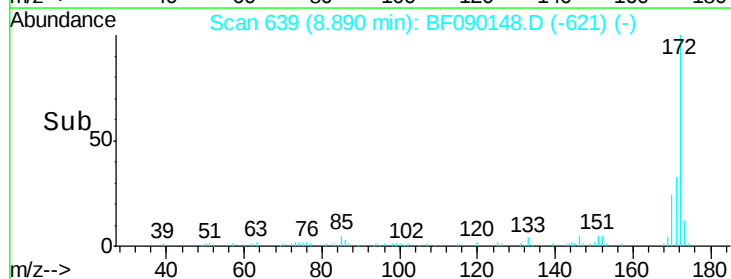
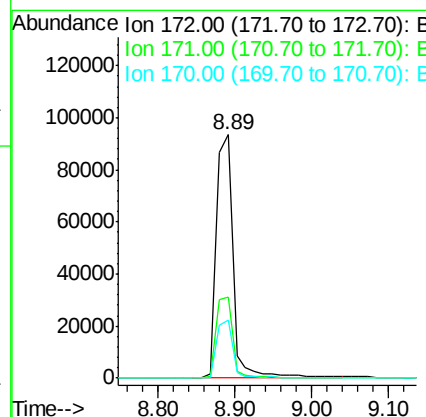
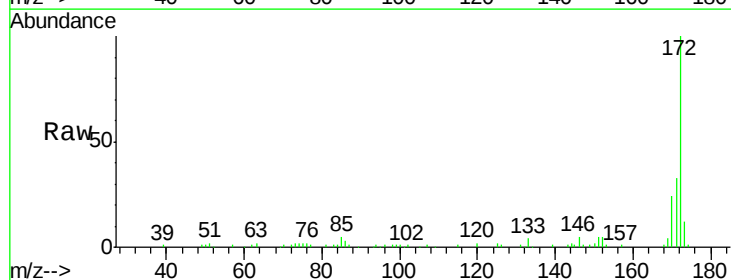
Instrument :
 BNA_F
 ClientSampleId :
 FHEPA-01(BOTTOM)

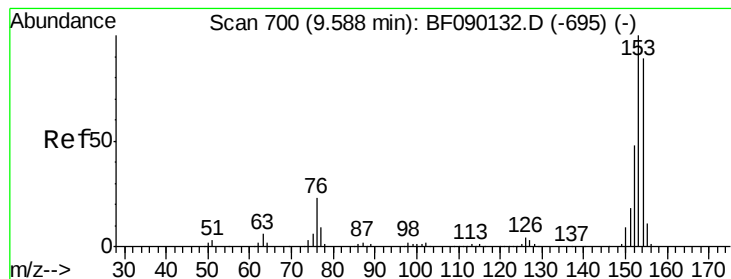
Tgt Ion:330 Resp: 18375
 Ion Ratio Lower Upper
 330 100
 332 99.0 78.1 117.1
 141 41.5 23.9 35.9#



#44
 2-Fluorobiphenyl
 Concen: 8.41 ng
 RT: 8.89 min Scan# 639
 Delta R.T. 0.00 min
 Lab File: BF090148.D
 Acq: 20 Sep 2016 21:55

Tgt Ion:172 Resp: 142136
 Ion Ratio Lower Upper
 172 100
 171 33.3 29.2 43.8
 170 23.7 19.8 29.8





#51

Acenaphthene

Concen: 3.43 ng

RT: 9.58 min Scan# 699

Delta R.T. -0.01 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

Instrument :

BNA_F

ClientSampleId :

FHEPA-01(BOTTOM)

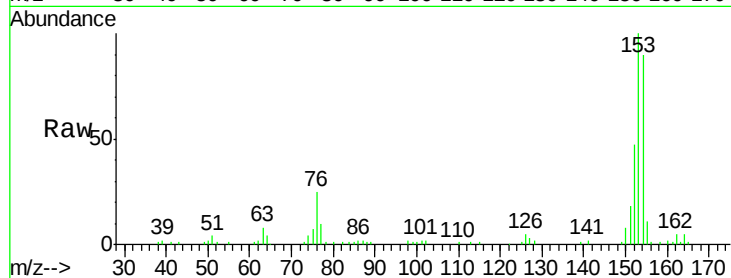
Tgt Ion:154 Resp: 57850

Ion Ratio Lower Upper

154 100

153 111.6 90.8 136.2

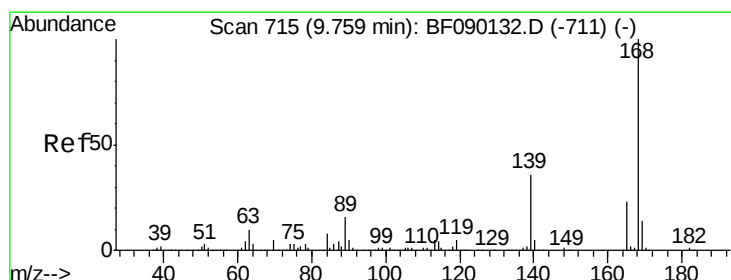
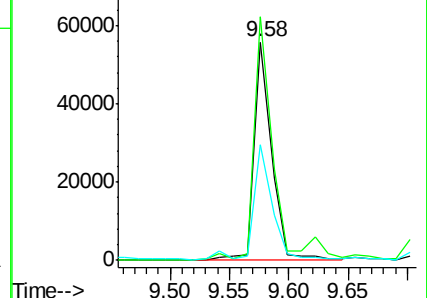
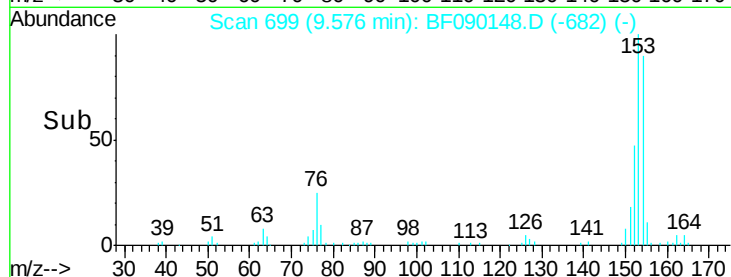
152 52.9 44.2 66.4



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: 3.96 ng

RT: 9.75 min Scan# 714

Delta R.T. -0.01 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

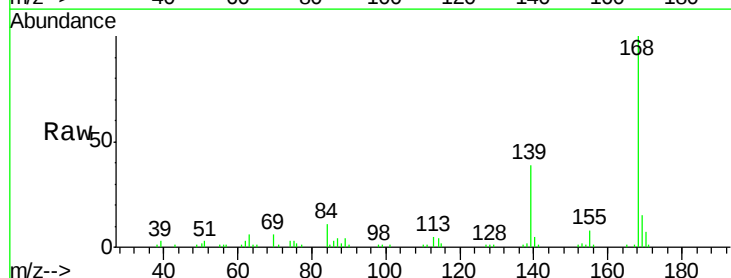
Tgt Ion:168 Resp: 87853

Ion Ratio Lower Upper

168 100

139 38.9 28.8 43.2

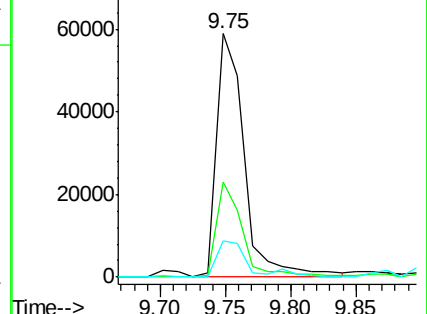
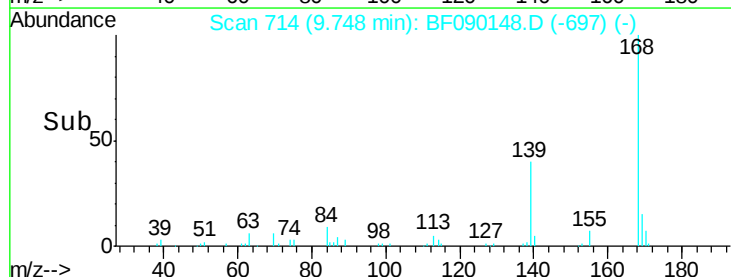
169 14.9 10.7 16.1

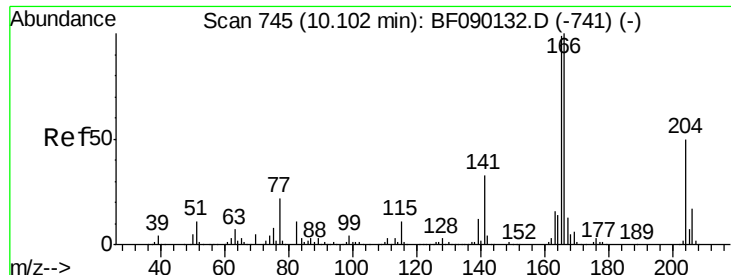


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

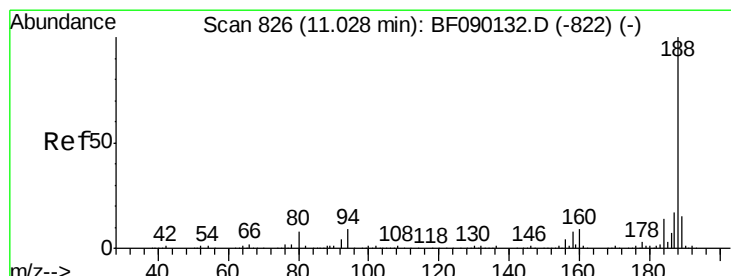
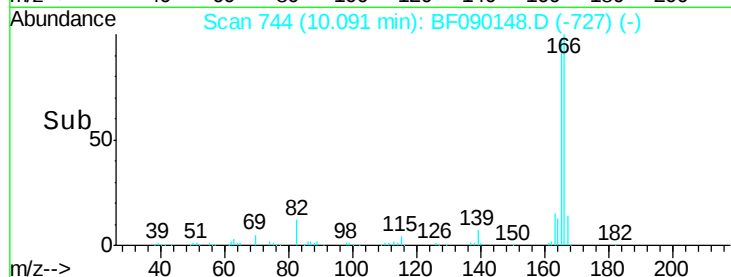
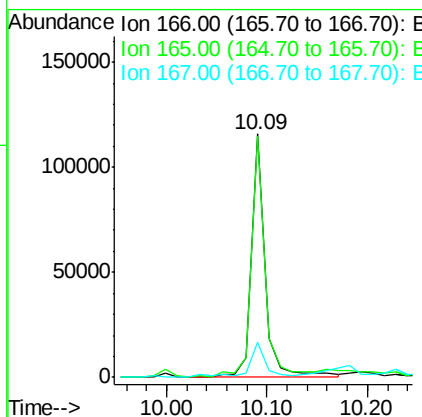
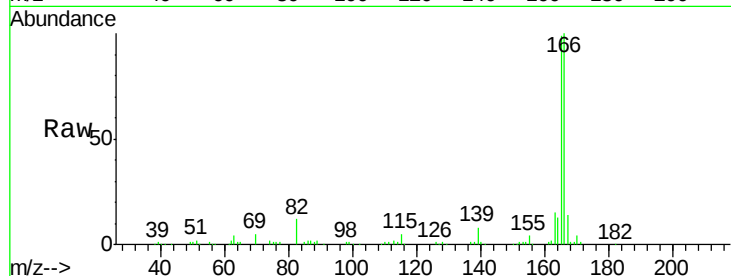




#57
Fluorene
 Concen: 6.64 ng
 RT: 10.09 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF090148.D
 Acq: 20 Sep 2016 21:55

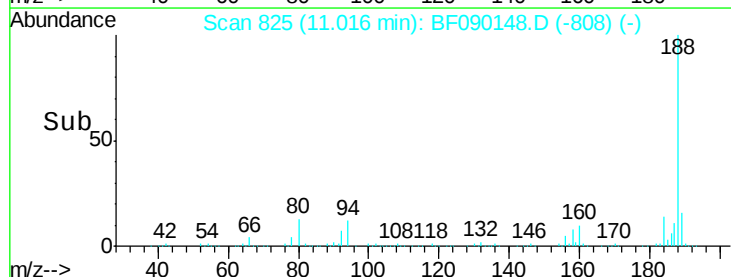
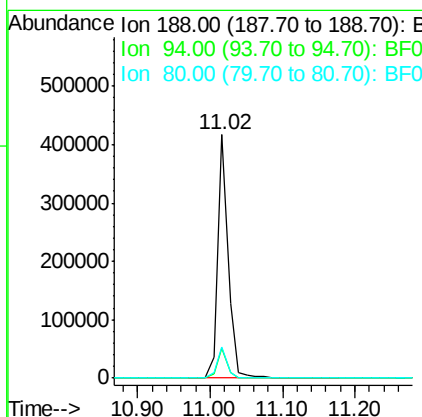
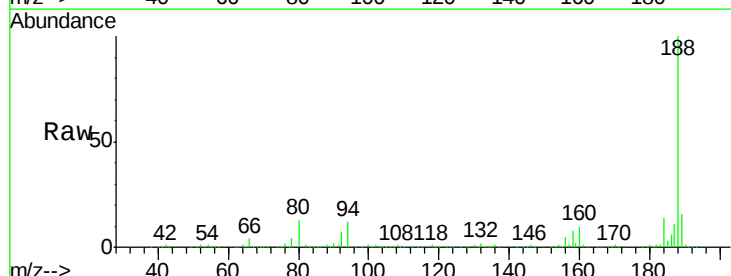
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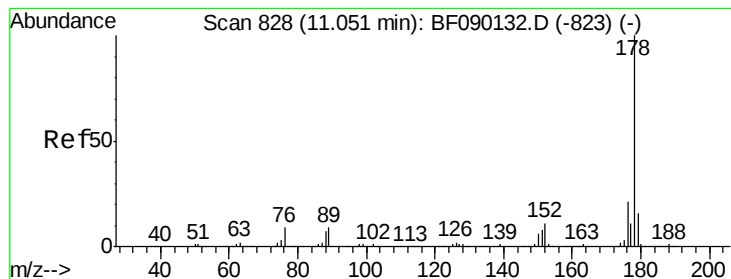
Tgt Ion:166 Resp: 111058
 Ion Ratio Lower Upper
 166 100
 165 98.9 78.5 117.7
 167 14.2 11.2 16.8



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.02 min Scan# 825
 Delta R.T. -0.01 min
 Lab File: BF090148.D
 Acq: 20 Sep 2016 21:55

Tgt Ion:188 Resp: 417403
 Ion Ratio Lower Upper
 188 100
 94 12.3 10.5 15.7
 80 12.7 11.2 16.8





#70

Phenanthrene

Concen: 46.19 ng

RT: 11.04 min Scan# 827

Delta R.T. -0.01 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

Instrument :

BNA_F

ClientSampleId :

FHEPA-01(BOTTOM)

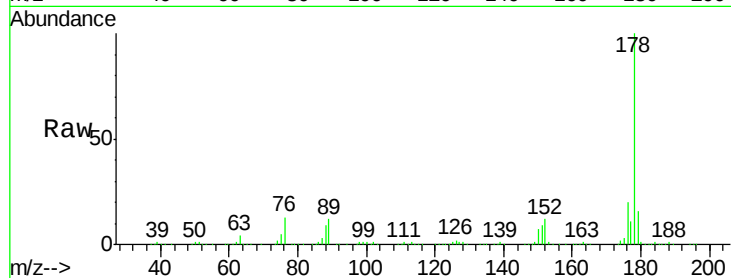
Tgt Ion:178 Resp: 901698

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

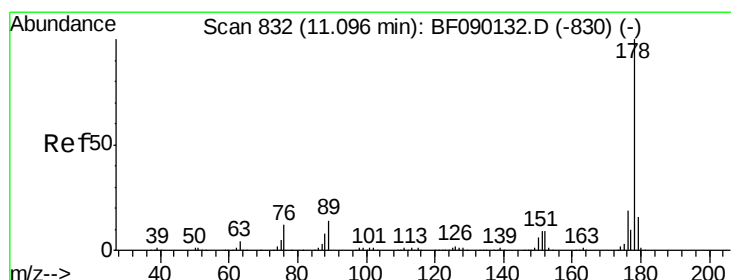
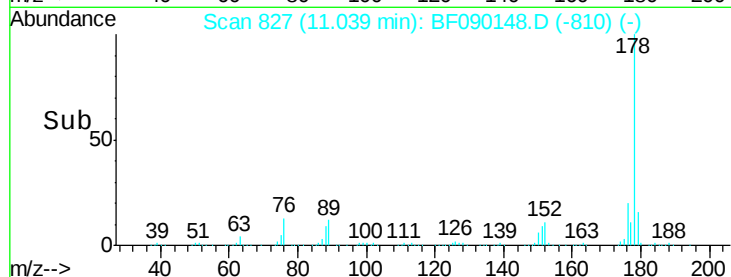
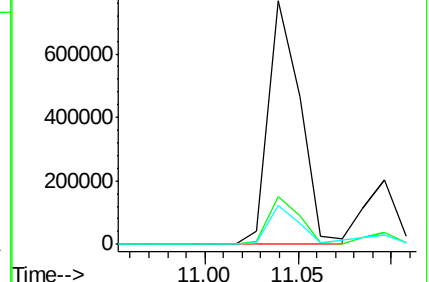
179 16.1 12.9 19.3



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: 12.63 ng

RT: 11.10 min Scan# 832

Delta R.T. 0.00 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

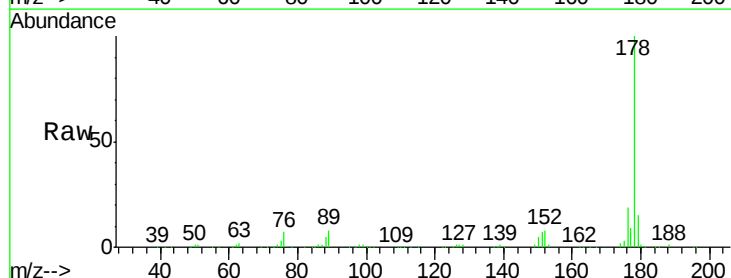
Tgt Ion:178 Resp: 258581

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.6

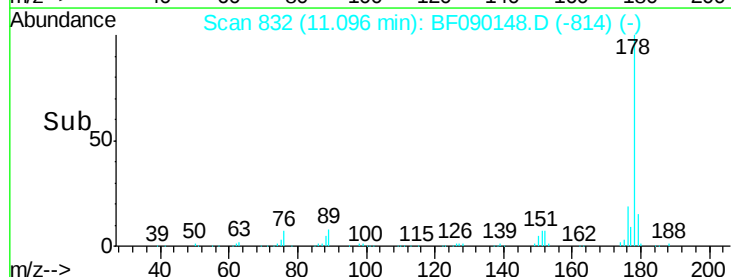
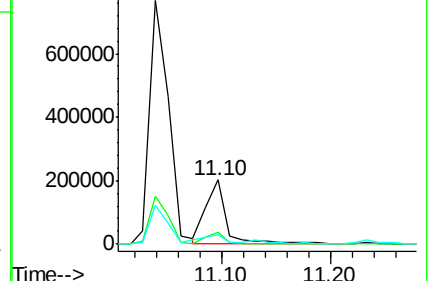
179 15.2 12.6 19.0

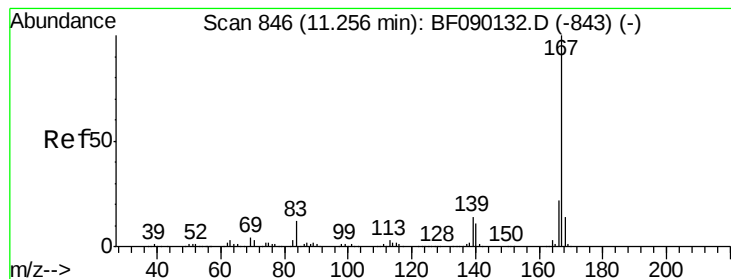


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.20 ng

RT: 11.26 min Scan# 846

Delta R.T. 0.00 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

Instrument :

BNA_F

ClientSampleId :

FHEPA-01(BOTTOM)

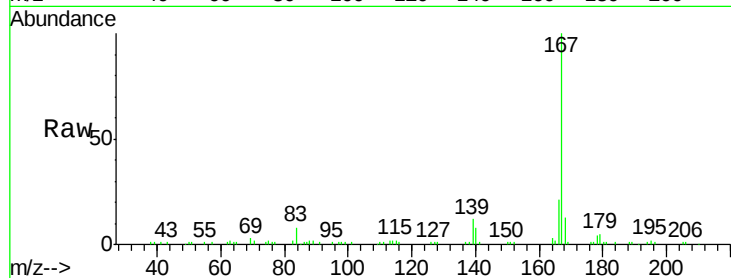
Tgt Ion:167 Resp: 90831

Ion Ratio Lower Upper

167 100

166 21.1 18.0 27.0

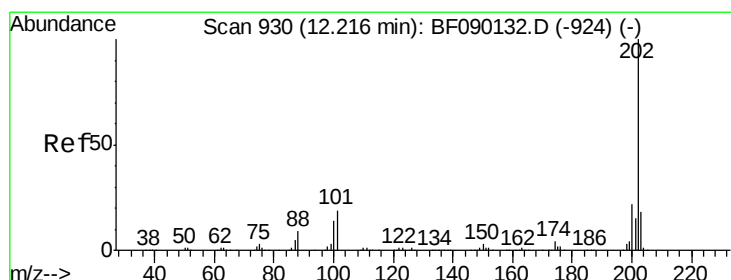
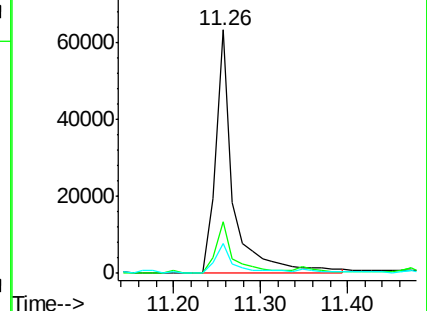
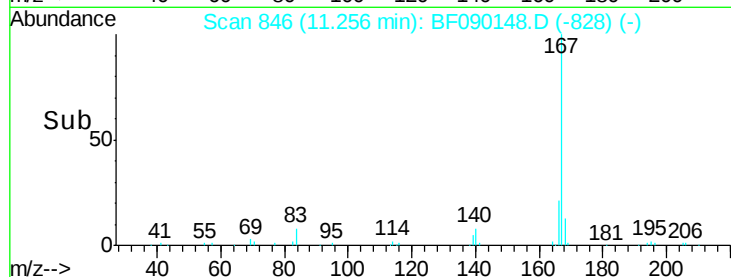
139 12.3 10.4 15.6



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 39.72 ng

RT: 12.22 min Scan# 930

Delta R.T. 0.00 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

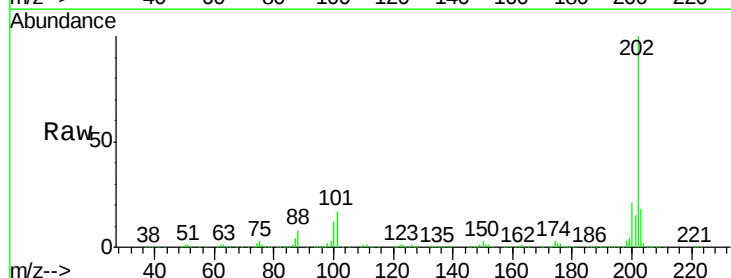
Tgt Ion:202 Resp: 832297

Ion Ratio Lower Upper

202 100

101 16.8 0.0 36.1

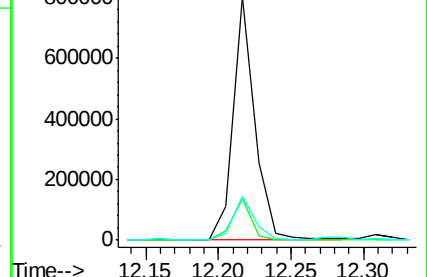
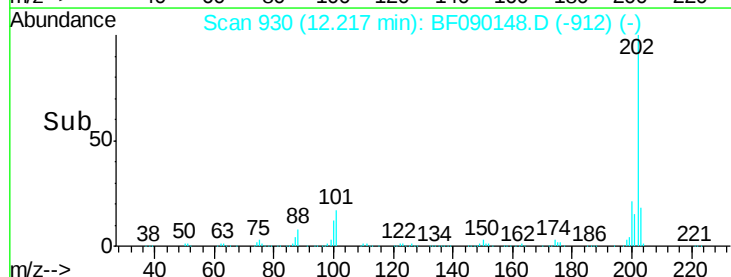
203 18.1 0.0 38.2

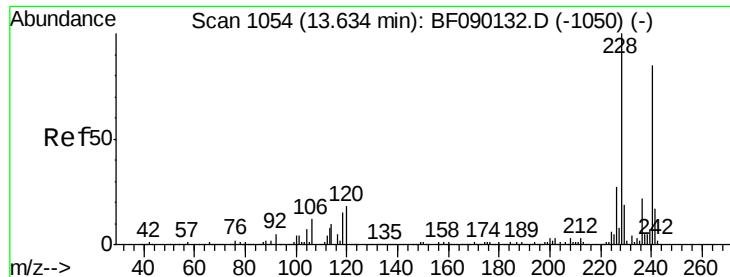


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.63 min Scan# 1054

Delta R.T. 0.00 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

Instrument :

BNA_F

ClientSampleId :

FHEPA-01(BOTTOM)

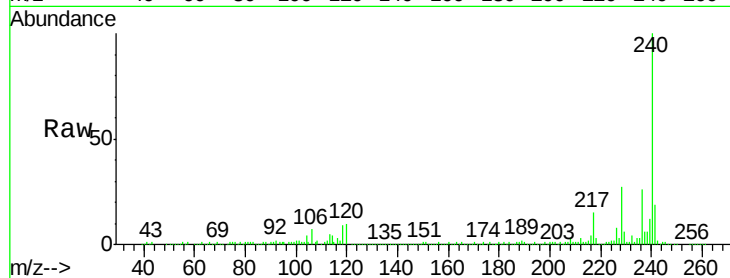
Tgt Ion:240 Resp: 288968

Ion Ratio Lower Upper

240 100

120 10.4 10.6 16.0#

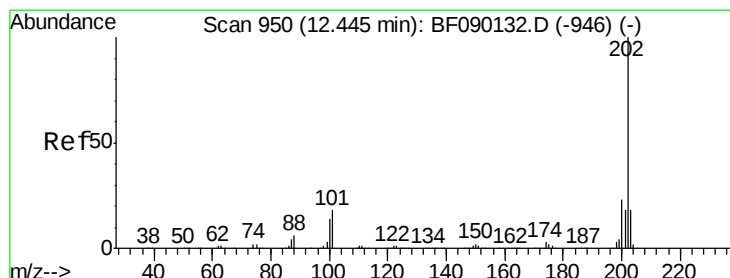
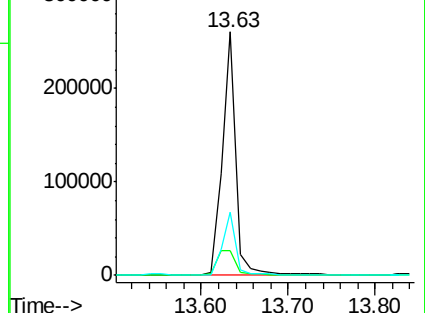
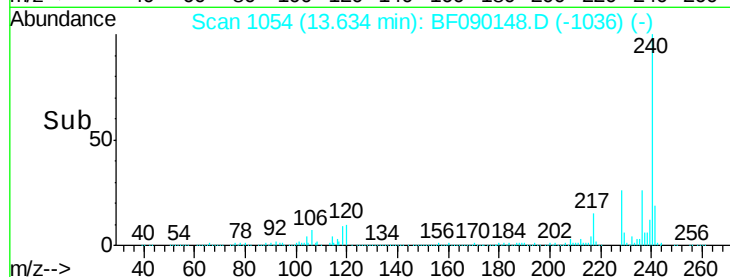
236 25.9 21.6 32.4



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



#77

Pyrene

Concen: 39.19 ng

RT: 12.45 min Scan# 950

Delta R.T. 0.00 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

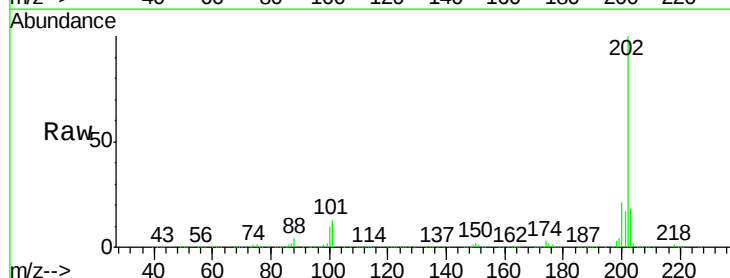
Tgt Ion:202 Resp: 774958

Ion Ratio Lower Upper

202 100

200 21.4 17.9 26.9

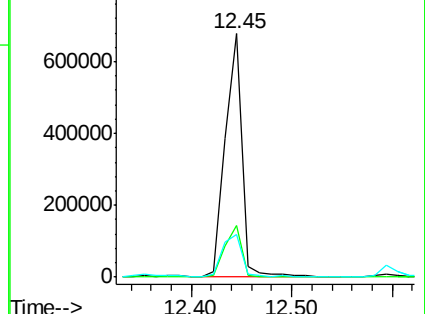
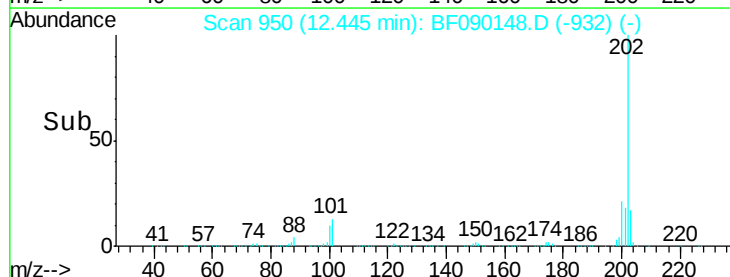
203 17.5 14.2 21.4

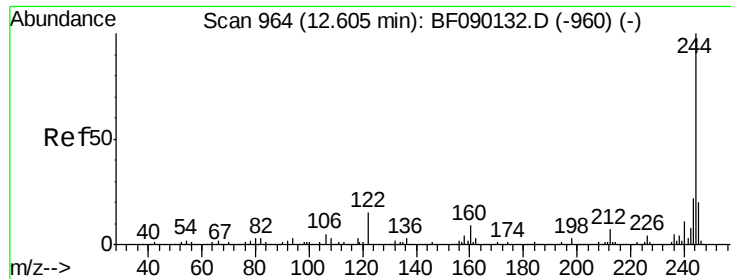


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 7.44 ng

RT: 12.59 min Scan# 963

Delta R.T. -0.01 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

Instrument :

BNA_F

ClientSampleId :

FHEPA-01(BOTTOM)

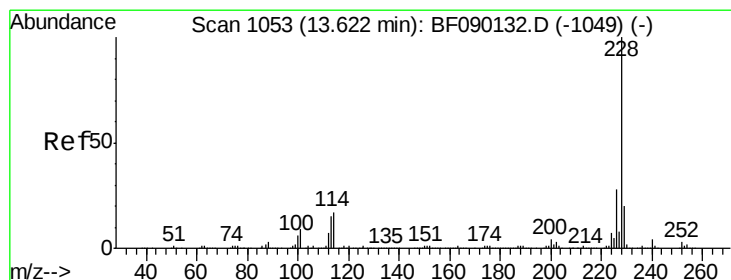
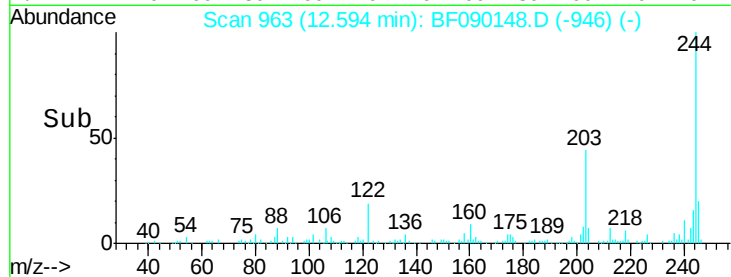
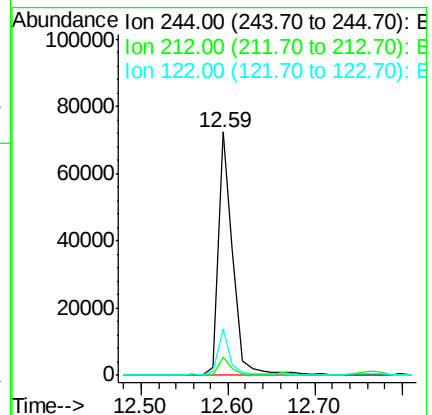
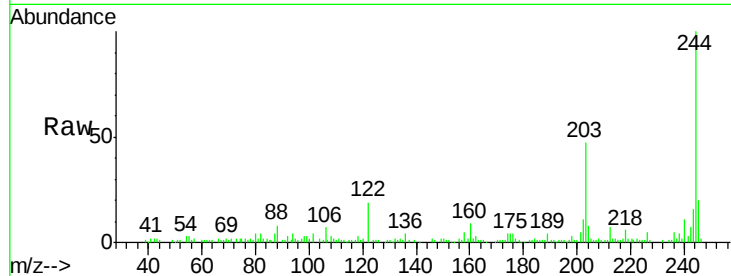
Tgt Ion:244 Resp: 84628

Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.8

122 18.9 9.4 14.0#



#80

Benzo(a)anthracene

Concen: 23.02 ng m

RT: 13.62 min Scan# 1053

Delta R.T. 0.00 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

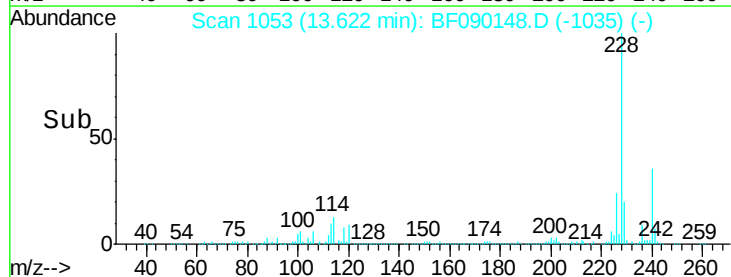
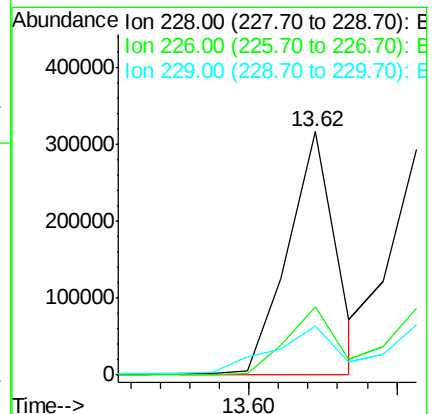
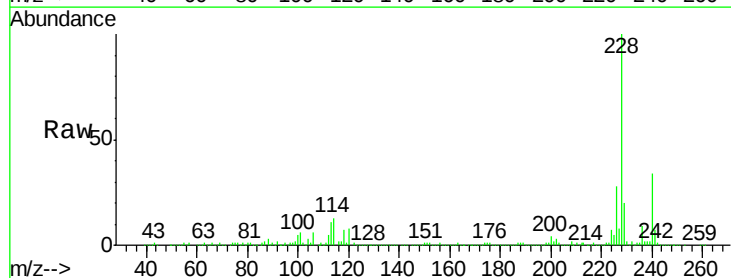
Tgt Ion:228 Resp: 357928

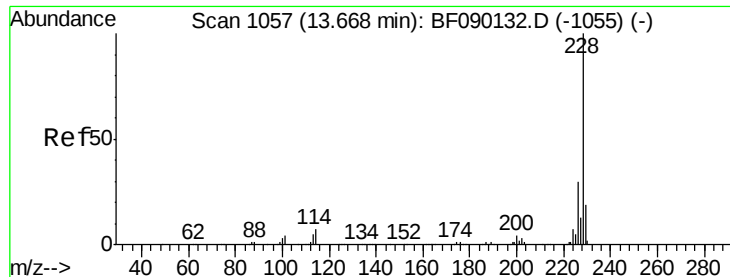
Ion Ratio Lower Upper

228 100

226 28.0 22.0 33.0

229 20.4 16.2 24.2





#82

Chrysene

Concen: 21.70 ng m

RT: 13.66 min Scan# 1056

Delta R.T. -0.01 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

Instrument :

BNA_F

ClientSampleId :

FHEPA-01(BOTTOM)

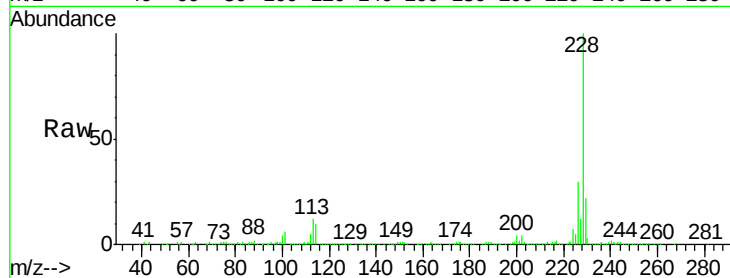
Tgt Ion:228 Resp: 328559

Ion Ratio Lower Upper

228 100

226 29.9 24.6 37.0

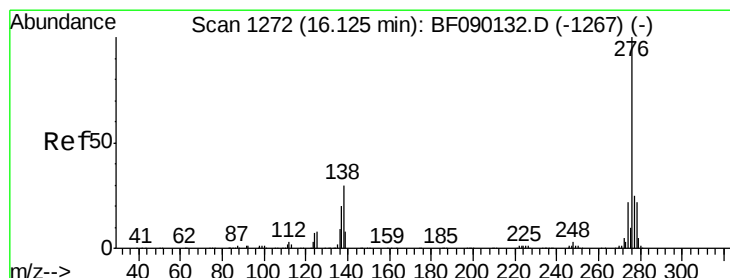
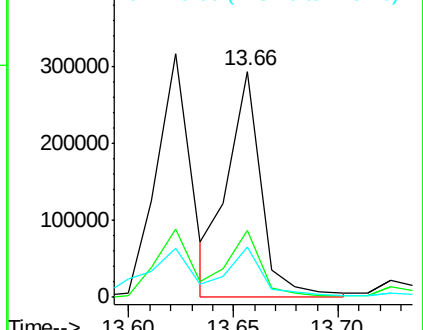
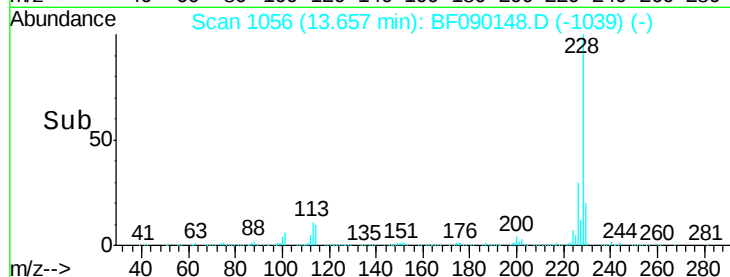
229 22.0 16.2 24.4



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: 13.59 ng

RT: 16.13 min Scan# 1272

Delta R.T. 0.00 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

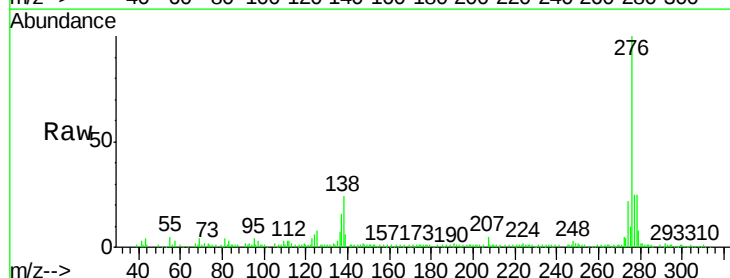
Tgt Ion:276 Resp: 166395

Ion Ratio Lower Upper

276 100

138 29.1 25.9 38.9

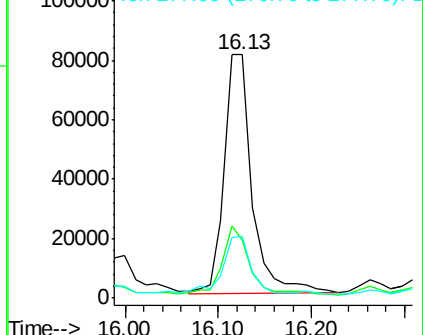
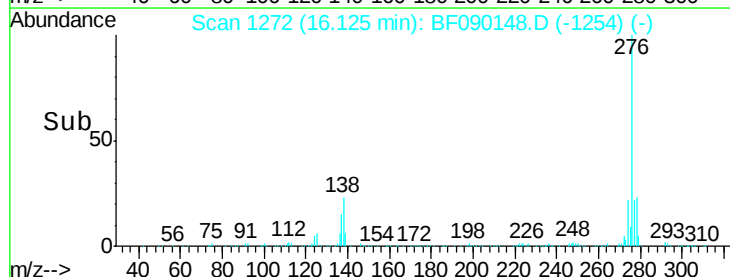
277 24.2 19.9 29.9

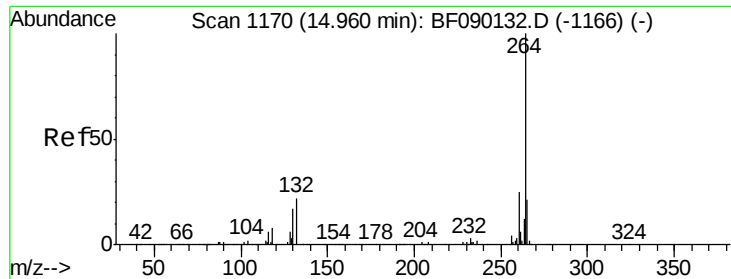


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

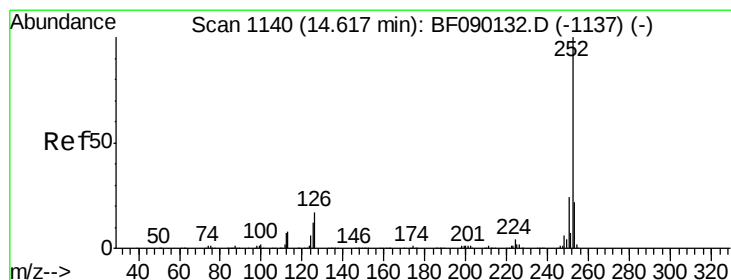
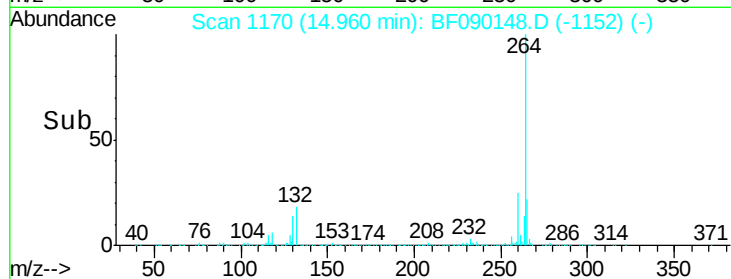
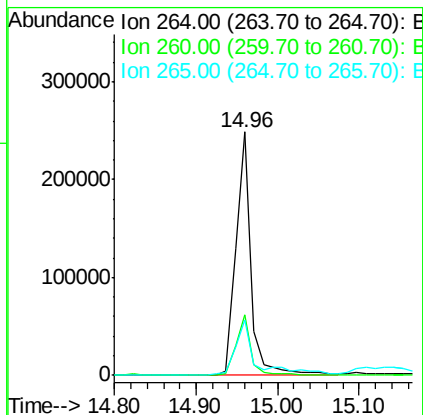
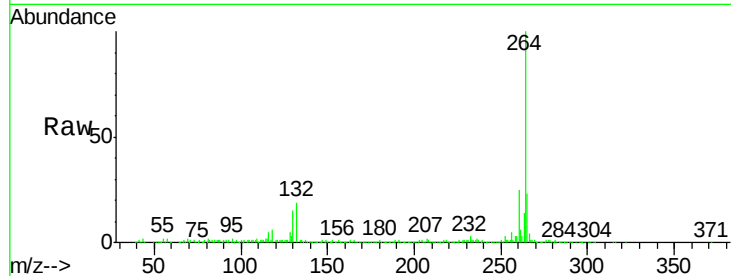




#86
Perylene-d12
Concen: 20.00 ng
RT: 14.96 min Scan# 1170
Delta R.T. 0.00 min
Lab File: BF090148.D
Acq: 20 Sep 2016 21:55

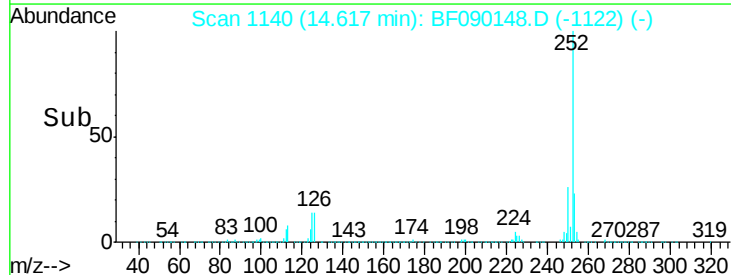
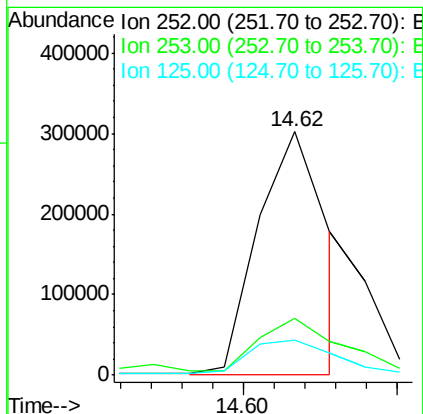
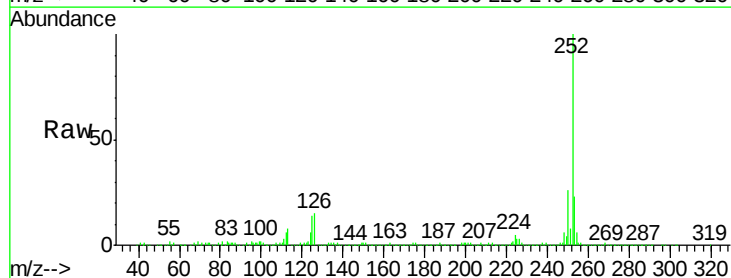
Instrument :
BNA_F
ClientSampleId :
FHEPA-01(BOTTOM)

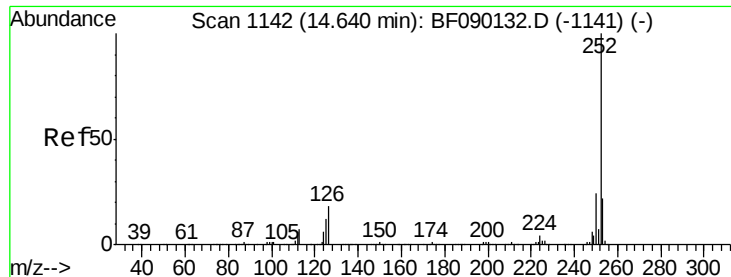
Tgt Ion:264 Resp: 319350
Ion Ratio Lower Upper
264 100
260 25.0 19.5 29.3
265 22.6 17.0 25.4



#87
Benzo(b)fluoranthene
Concen: 26.76 ng m
RT: 14.62 min Scan# 1140
Delta R.T. 0.00 min
Lab File: BF090148.D
Acq: 20 Sep 2016 21:55

Tgt Ion:252 Resp: 473206
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 14.2 12.7 19.1

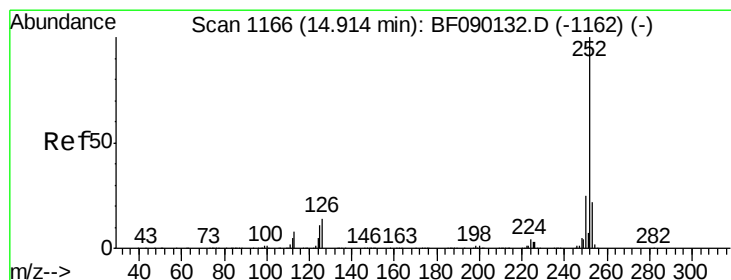
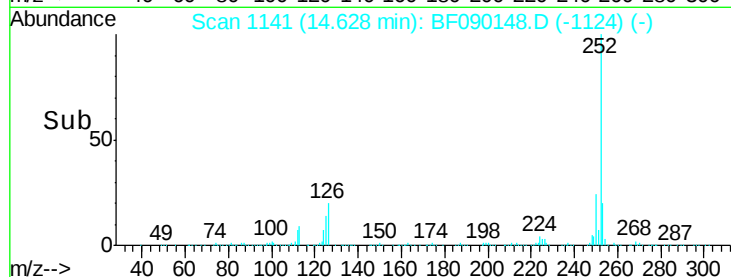
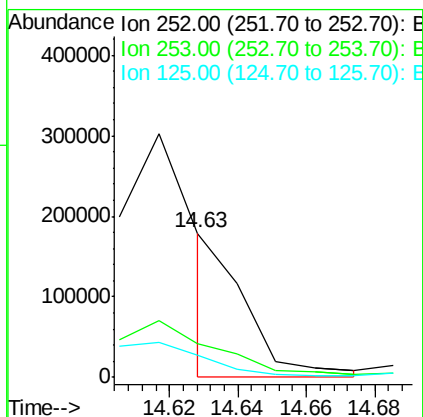
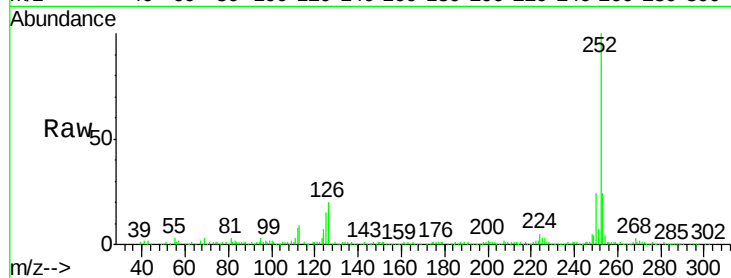




#88
Benzo(k)fluoranthene
Concen: 6.52 ng m
RT: 14.63 min Scan# 1141
Delta R.T. -0.01 min
Lab File: BF090148.D
Acq: 20 Sep 2016 21:55

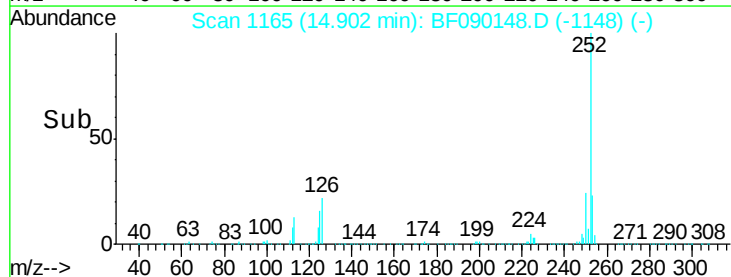
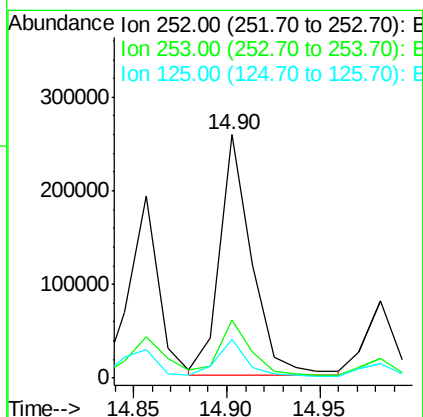
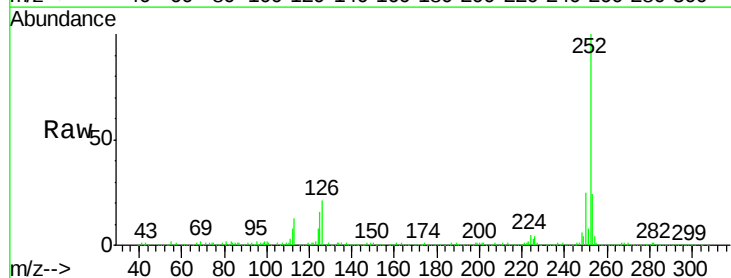
Instrument :
BNA_F
ClientSampleId :
FHEPA-01(BOTTOM)

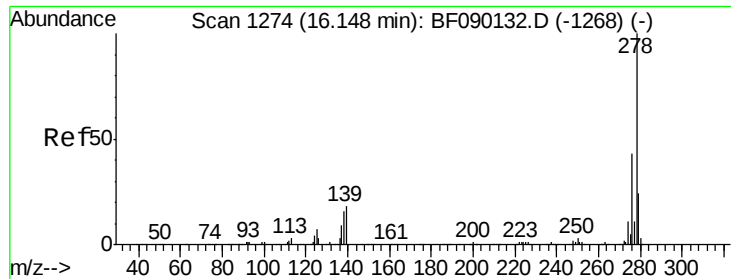
Tgt Ion:252 Resp: 108128
Ion Ratio Lower Upper
252 100
253 23.6 17.8 26.8
125 15.0 7.8 11.6#



#89
Benzo(a)pyrene
Concen: 18.64 ng
RT: 14.90 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF090148.D
Acq: 20 Sep 2016 21:55

Tgt Ion:252 Resp: 310115
Ion Ratio Lower Upper
252 100
253 23.8 17.4 26.0
125 16.0 7.7 11.5#





#90

Dibenzo(a,h)anthracene

Concen: 2.87 ng m

RT: 16.13 min Scan# 1272

Delta R.T. -0.02 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

Instrument :

BNA_F

ClientSampleId :

FHEPA-01(BOTTOM)

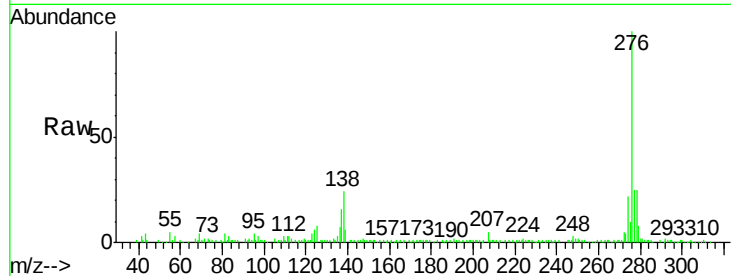
Tgt Ion:278 Resp: 37257

Ion Ratio Lower Upper

278 100

139 25.0 14.6 21.8#

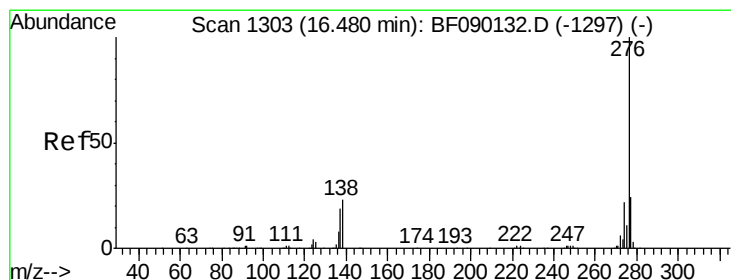
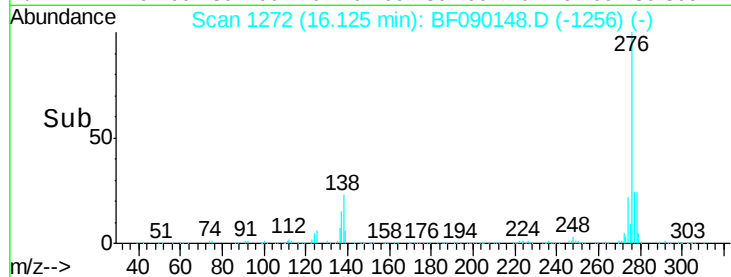
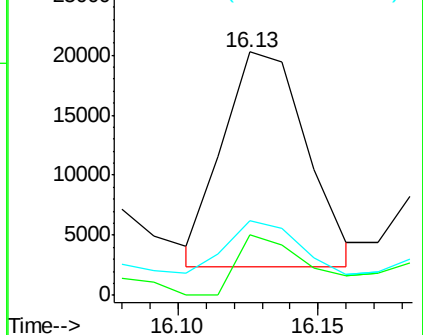
279 30.4 18.8 28.2#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 11.67 ng

RT: 16.47 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF090148.D

Acq: 20 Sep 2016 21:55

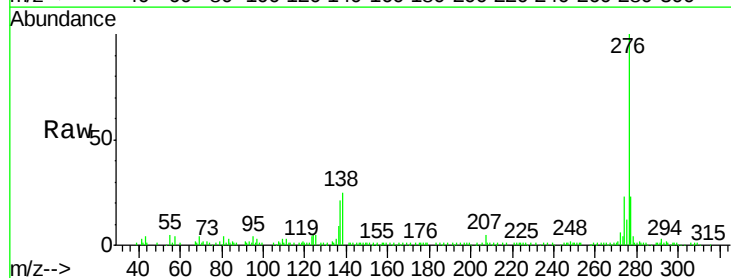
Tgt Ion:276 Resp: 148211

Ion Ratio Lower Upper

276 100

277 23.3 18.9 28.3

138 24.7 23.3 34.9



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

