

Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\
 Data File : BF083084.D
 Acq On : 20 Nov 2015 16:23
 Operator : UM/IZ
 Sample : G4436-01DL 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350DL

Quant Time: Nov 20 17:47:50 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 01:33:39 2015
 Response via : Initial Calibration

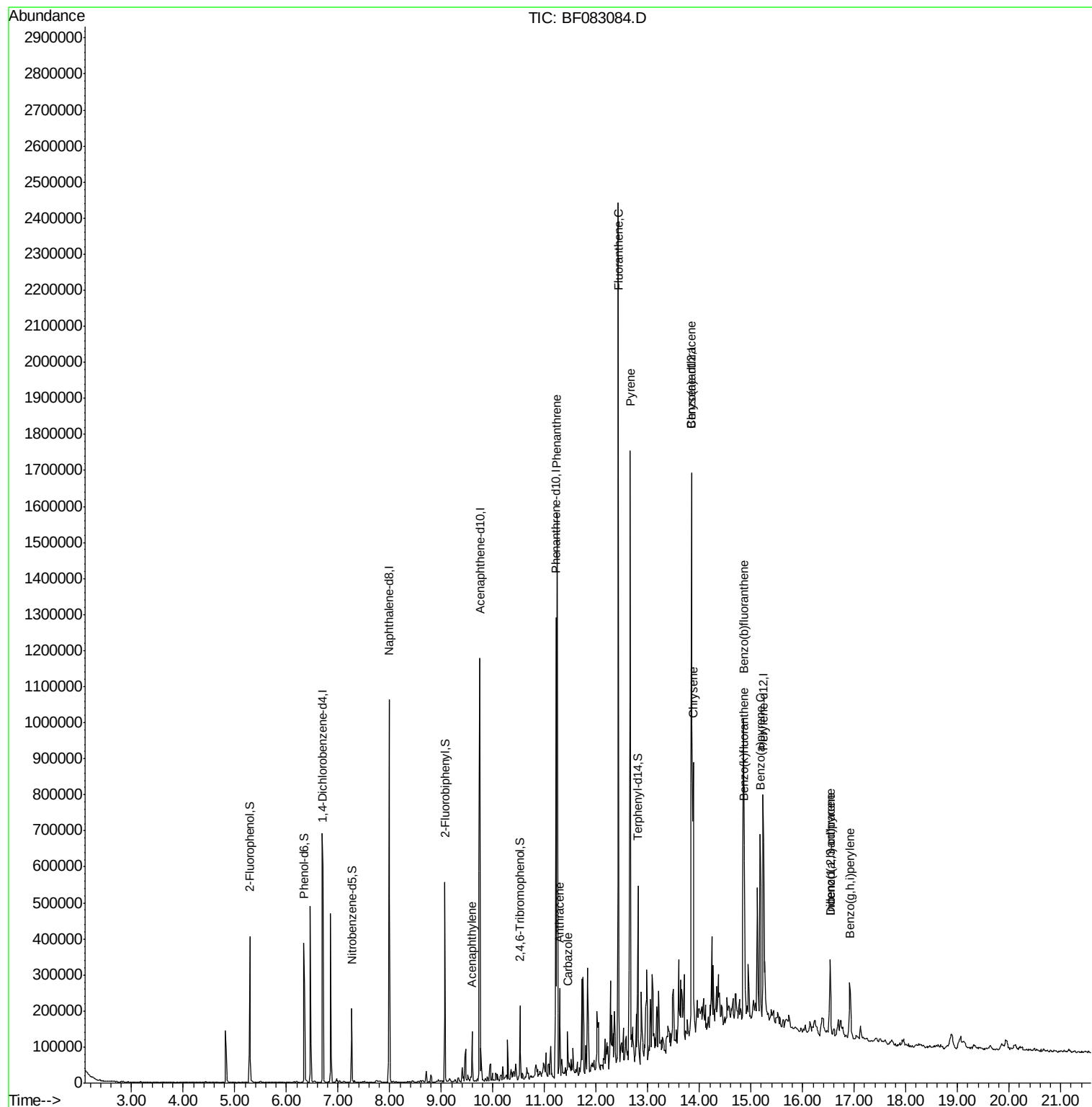
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	143782	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	535955	20.00	ng	-0.01
38) Acenaphthene-d10	9.74	164	265587	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	442134	20.00	ng	0.00
75) Chrysene-d12	13.85	240	371953	20.00	ng	-0.01
86) Perylene-d12	15.23	264	326756	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	114986	12.42	ng	0.00
7) Phenol-d6	6.34	99	155214	12.73	ng	-0.01
23) Nitrobenzene-d5	7.26	82	83065	7.10	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	17132	6.08	ng	-0.01
44) 2-Fluorobiphenyl	9.07	172	181625	9.21	ng	-0.01
78) Terphenyl-d14	12.81	244	130821	8.30	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	9.60	152	60256	2.06	ng	98
70) Phenanthrene	11.24	178	537278	20.14	ng	99
71) Anthracene	11.29	178	123281	4.59	ng	98
72) Carbazole	11.45	167	47548	2.02	ng	99
74) Fluoranthene	12.43	202	899252	32.35	ng	97
77) Pyrene	12.66	202	829658	31.68	ng	98
80) Benzo(a)anthracene	13.85	228	449302	19.01	ng	96
82) Chrysene	13.88	228	384797m	17.75	ng	
85) Indeno(1,2,3-cd)pyrene	16.53	276	138342	7.84	ng	96
87) Benzo(b)fluoranthene	14.85	252	415271m	18.18	ng	
88) Benzo(k)fluoranthene	14.87	252	160793m	9.24	ng	
89) Benzo(a)pyrene	15.17	252	275127m	15.01	ng	
90) Dibenzo(a,h)anthracene	16.53	278	35143m	2.20	ng	
91) Benzo(a,h,i)perylene	16.91	276	121007	7.77	ng	# 93

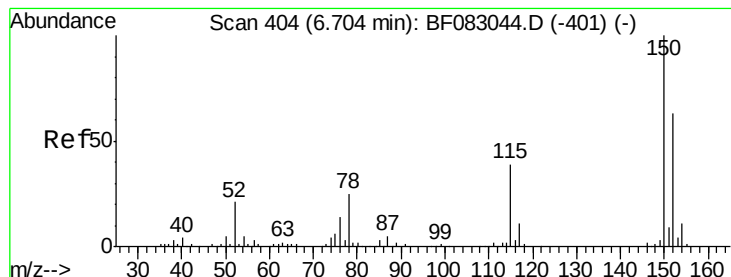
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 404

Delta R.T. 0.00 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Instrument :

BNA_F

ClientSampleId :

PM-1350DL

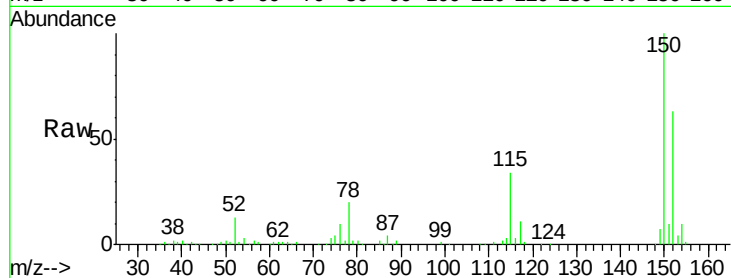
Tot Ion:152 Resp: 143782

Ion Ratio Lower Upper

152 100

150 157.8 126.4 189.6

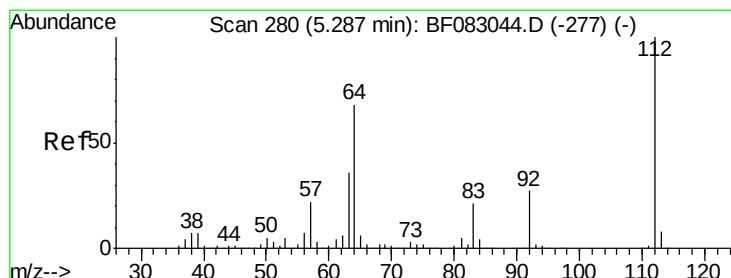
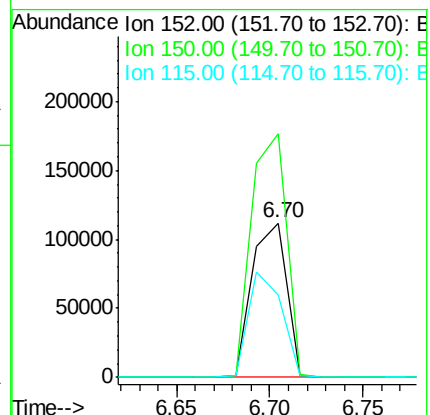
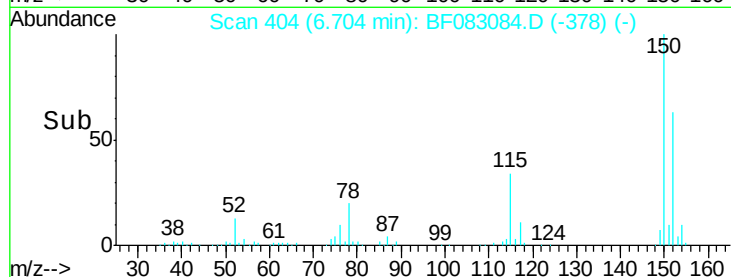
115 53.0 49.0 73.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 12.42 ng

RT: 5.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

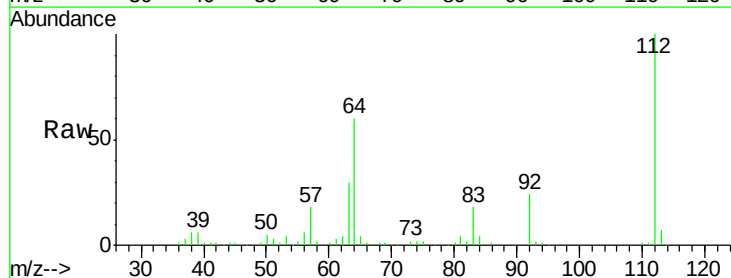
Tgt Ion:112 Resp: 114986

Ion Ratio Lower Upper

112 100

64 59.7 54.8 82.2

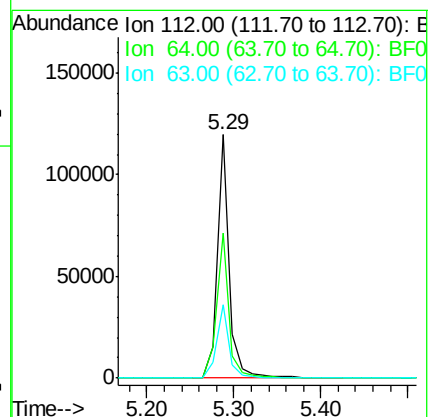
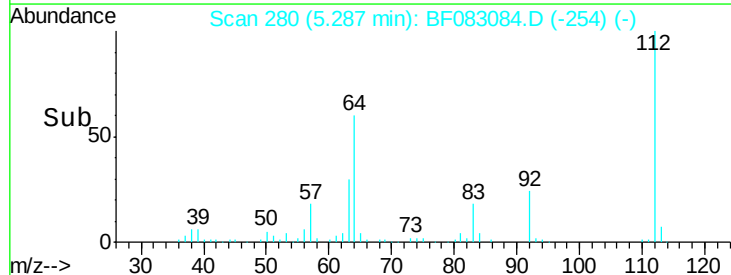
63 29.9 29.0 43.4

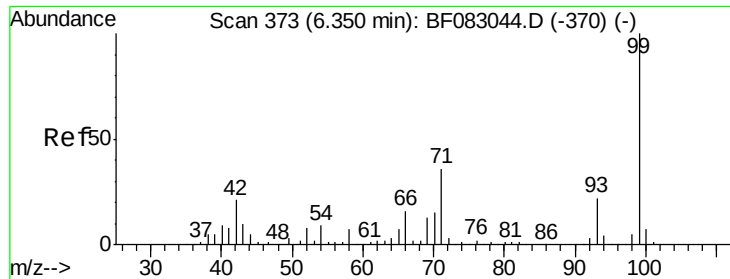


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 12.73 ng

RT: 6.34 min Scan# 372

Delta R.T. -0.01 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Instrument :

BNA_F

ClientSampleId :

PM-1350DL

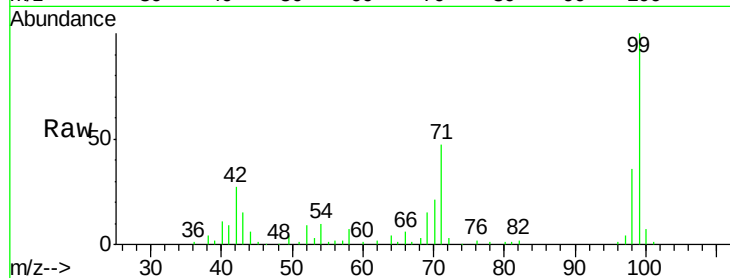
Tot Ion: 99 Resp: 155214

Ion Ratio Lower Upper

99 100

42 27.2 16.6 25.0#

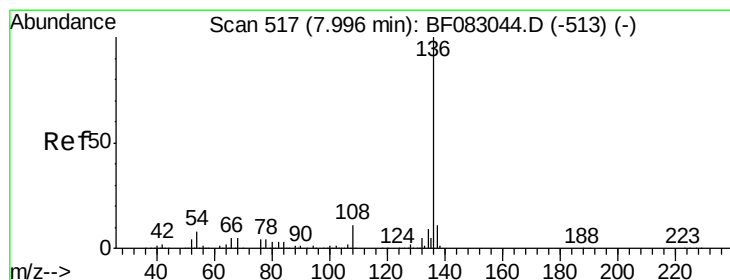
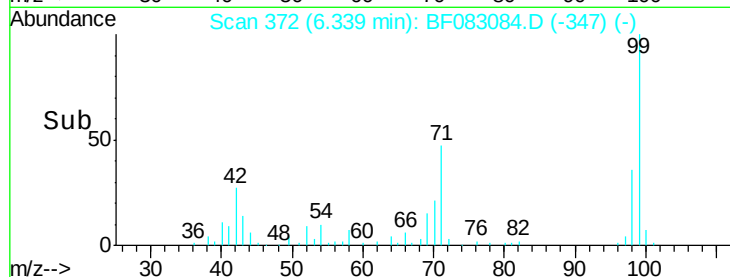
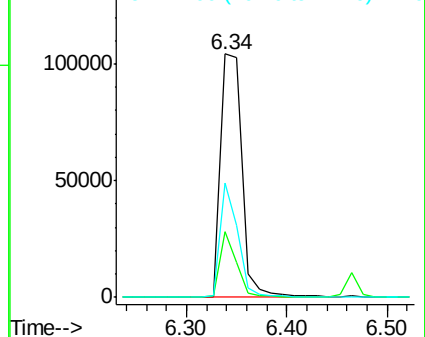
71 46.8 29.2 43.8#



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: 7.98 min Scan# 516

Delta R.T. -0.01 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Tgt Ion: 136 Resp: 535955

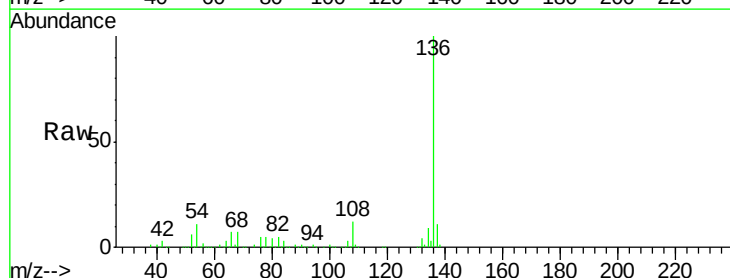
Ion Ratio Lower Upper

136 100

137 11.0 8.6 12.8

54 11.1 6.2 9.2#

68 6.9 4.2 6.2#

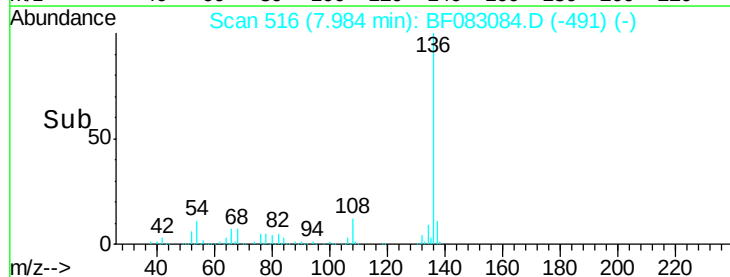
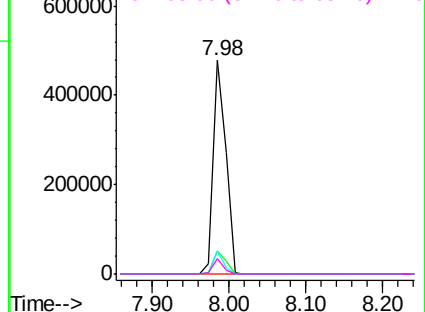


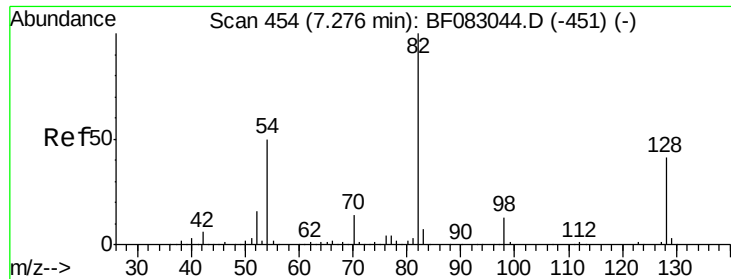
Abundance Ion 136.00 (135.70 to 136.70): E

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

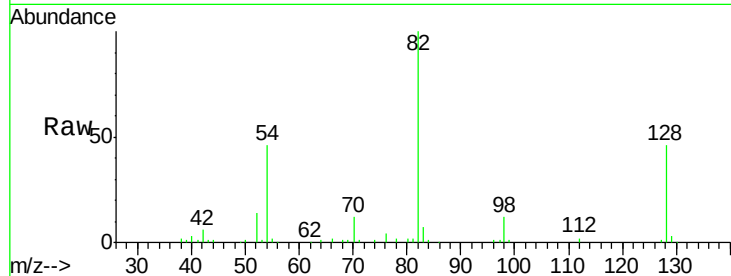




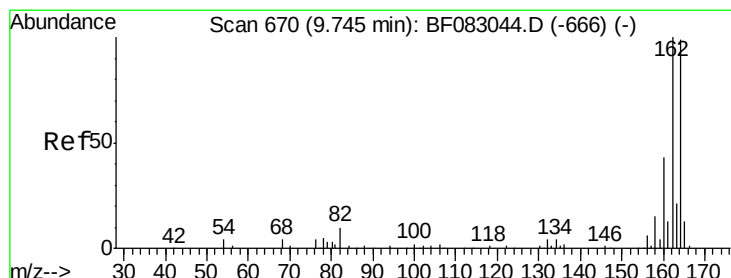
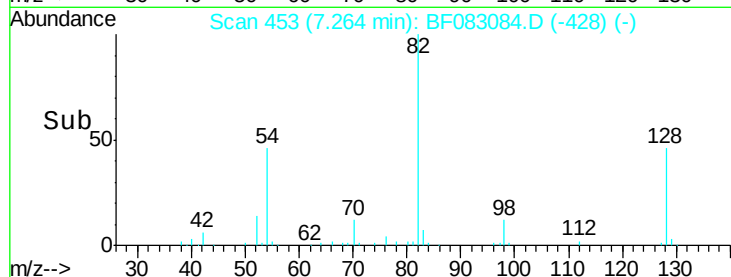
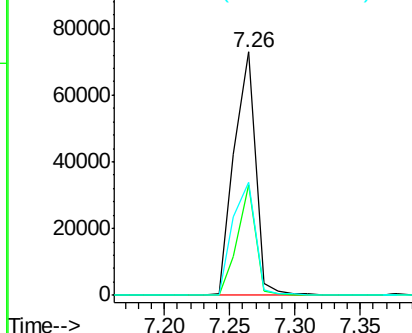
#23
 Nitrobenzene-d5
 Concen: 7.10 ng
 RT: 7.26 min Scan# 453
 Delta R.T. -0.01 min
 Lab File: BF083084.D
 Acq: 20 Nov 2015 16:23

Instrument :
 BNA_F
 ClientSampleID :
 PM-1350DL

Tot Ion	82	Resp	83065
Ion Ratio	100	Lower	Upper
128	45.6	33.1	49.7
54	46.2	39.8	59.6

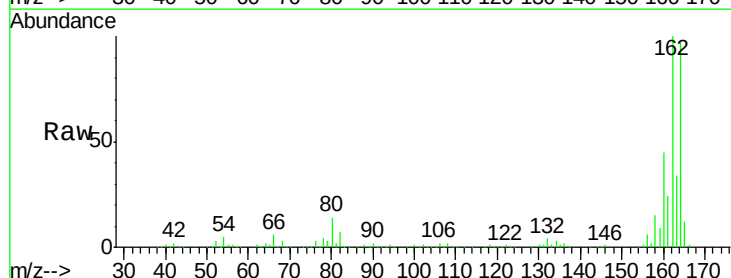


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

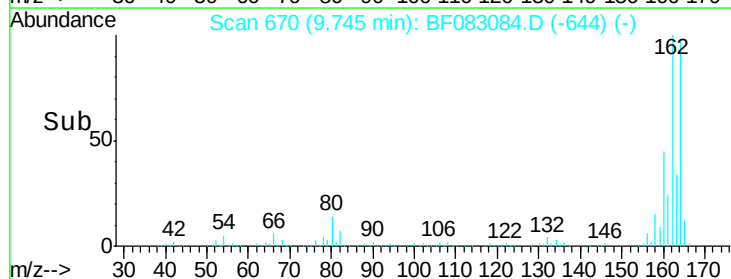
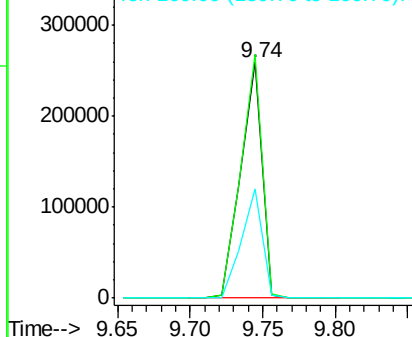


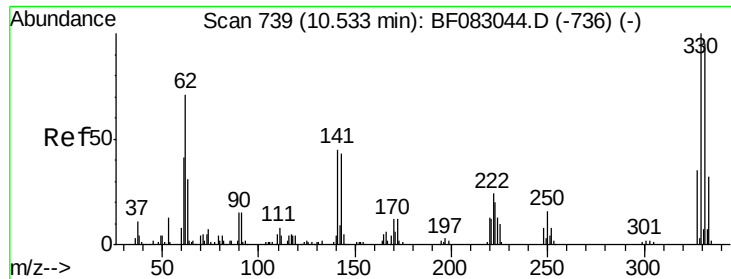
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.74 min Scan# 670
 Delta R.T. 0.00 min
 Lab File: BF083084.D
 Acq: 20 Nov 2015 16:23

Tgt Ion	164	Resp	265587
Ion Ratio	100	Lower	Upper
162	103.3	80.5	120.7
160	46.5	35.0	52.4



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

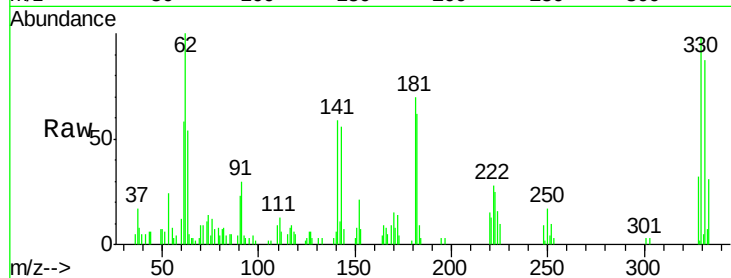




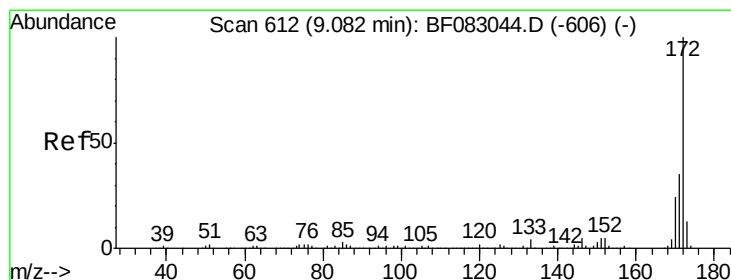
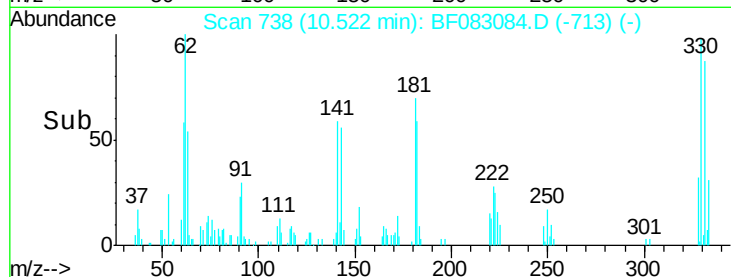
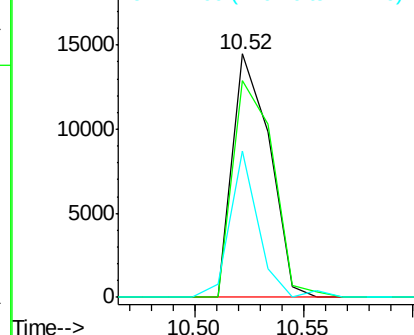
#41
 2,4,6-Tribromophenol
 Concen: 6.08 ng
 RT: 10.52 min Scan# 738
 Delta R.T. -0.01 min
 Lab File: BF083084.D
 Acq: 20 Nov 2015 16:23

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.6	116.4
141	46.1	34.6	52.0

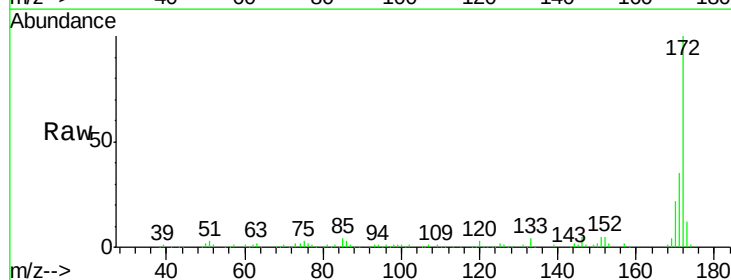


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

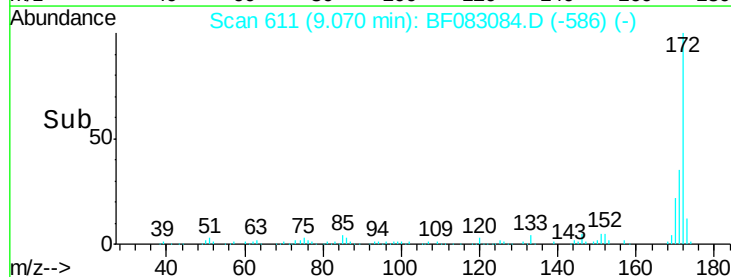
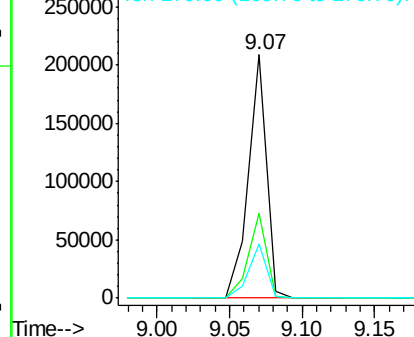


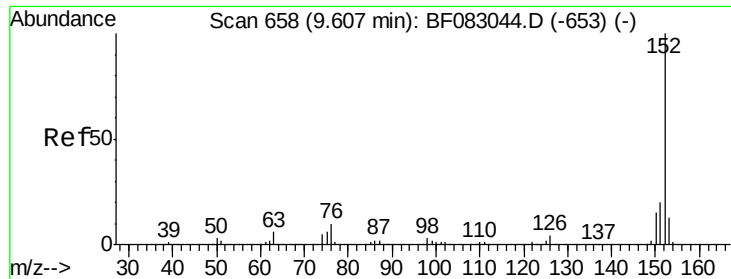
#44
 2-Fluorobiphenyl
 Concen: 9.21 ng
 RT: 9.07 min Scan# 611
 Delta R.T. -0.01 min
 Lab File: BF083084.D
 Acq: 20 Nov 2015 16:23

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.2	42.4
170	22.2	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: 2.06 ng

RT: 9.60 min Scan# 657

Delta R.T. -0.01 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Instrument :

BNA_F

ClientSampleId :

PM-1350DL

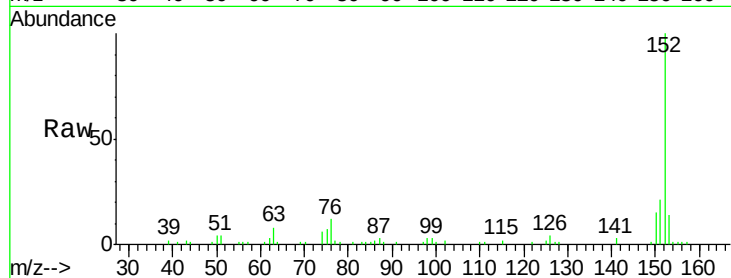
Tot Ion:152 Resp: 60256

Ion Ratio Lower Upper

152 100

151 21.0 16.2 24.2

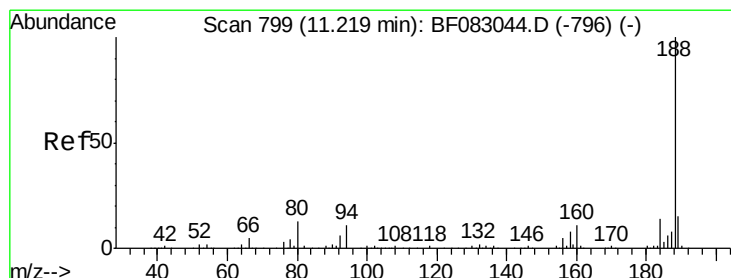
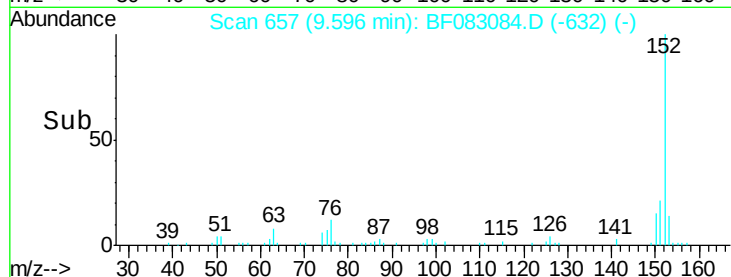
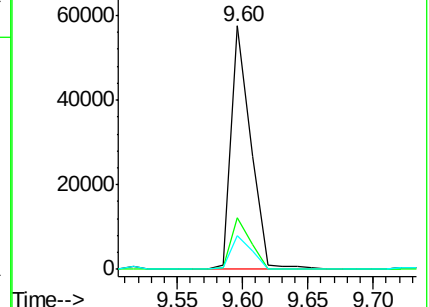
153 14.0 10.6 15.8



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.22 min Scan# 799

Delta R.T. 0.00 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

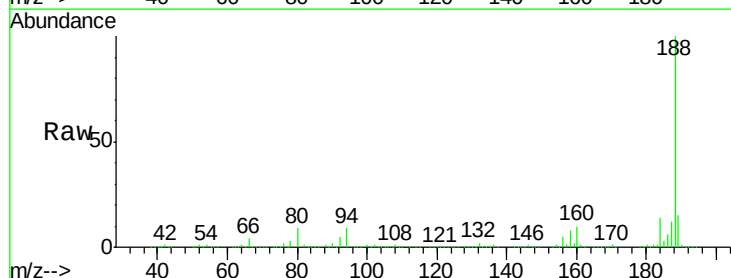
Tgt Ion:188 Resp: 442134

Ion Ratio Lower Upper

188 100

94 8.5 9.0 13.4#

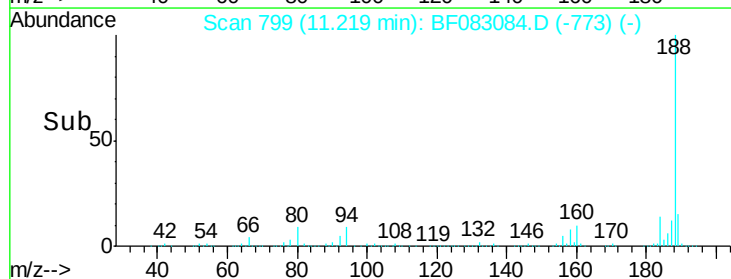
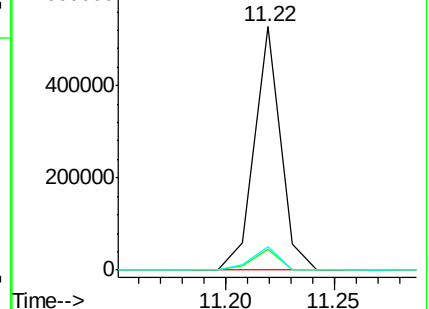
80 9.5 10.2 15.4#

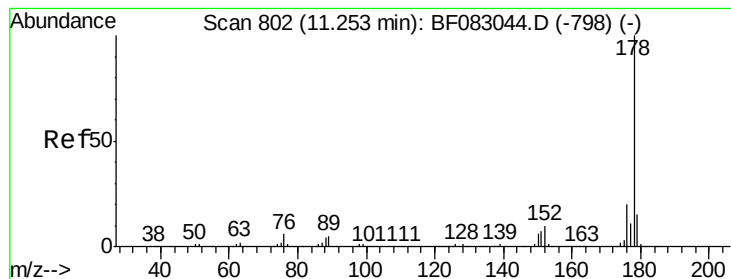


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 20.14 ng

RT: 11.24 min Scan# 801

Delta R.T. -0.01 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Instrument :

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ClientSampleId :

PM-1350DL

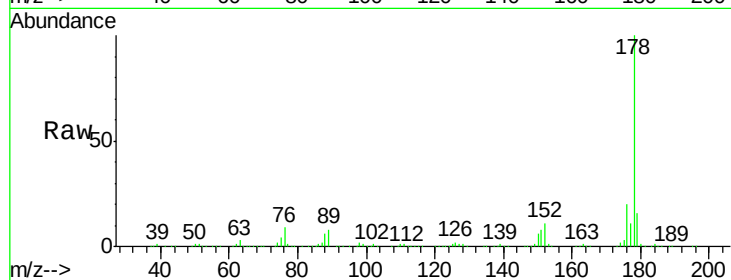
Tot Ion:178 Resp: 537278

Ion Ratio Lower Upper

178 100

176 19.6 15.6 23.4

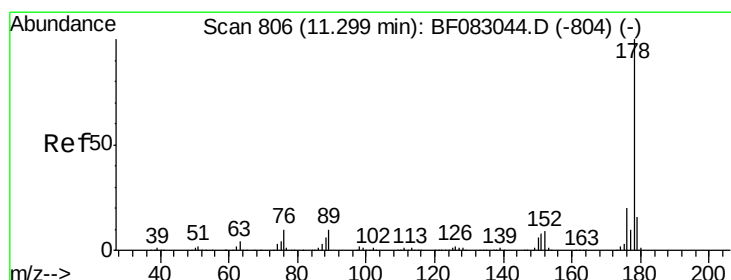
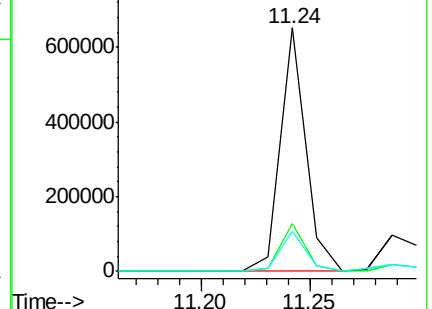
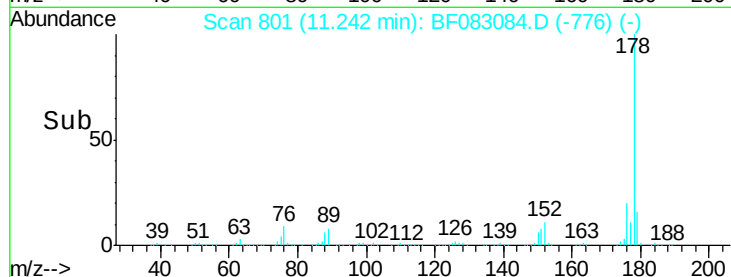
179 16.4 12.3 18.5



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: 4.59 ng

RT: 11.29 min Scan# 805

Delta R.T. -0.01 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

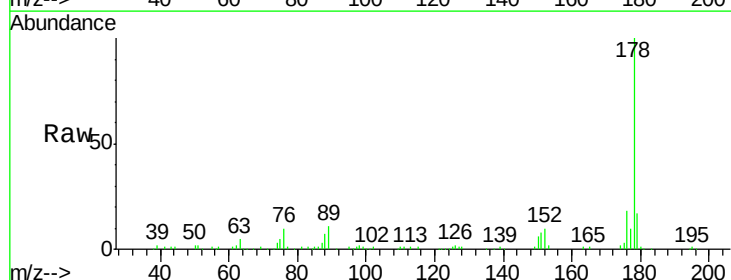
Tgt Ion:178 Resp: 123281

Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.6

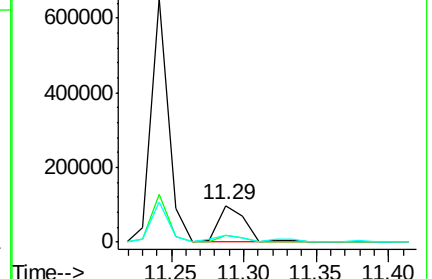
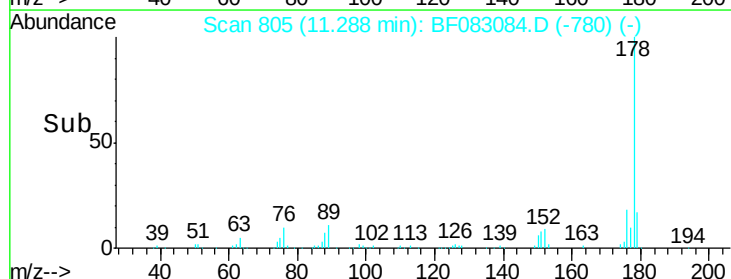
179 17.0 13.1 19.7

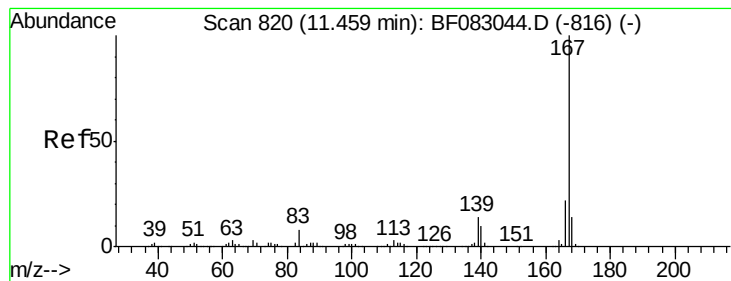


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.02 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.01 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Instrument :

BNA_F

ClientSampleId :

PM-1350DL

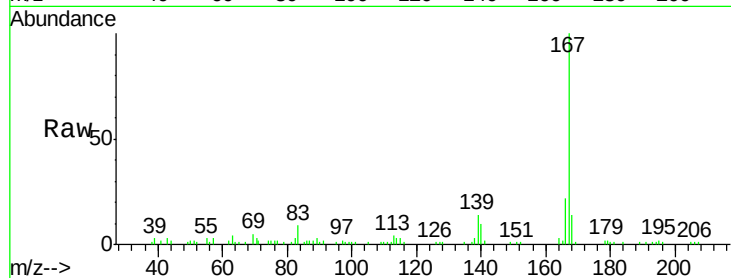
Tot Ion:167 Resp: 47548

Ion Ratio Lower Upper

167 100

166 21.9 17.8 26.6

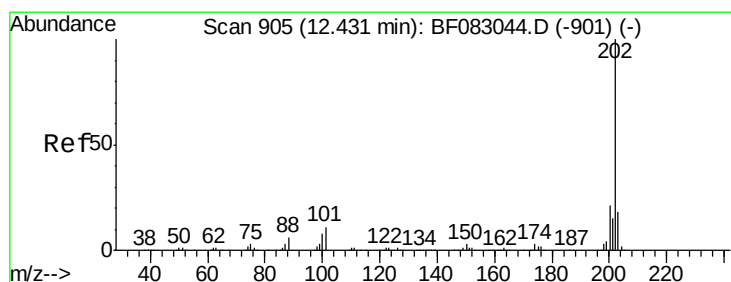
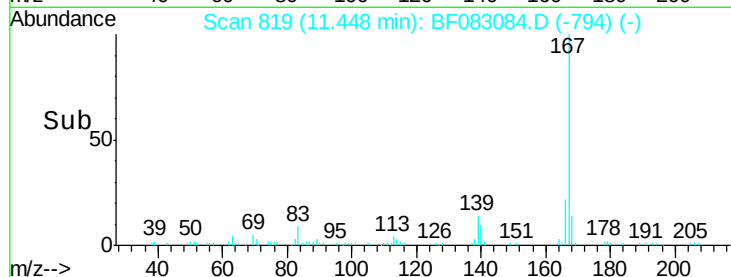
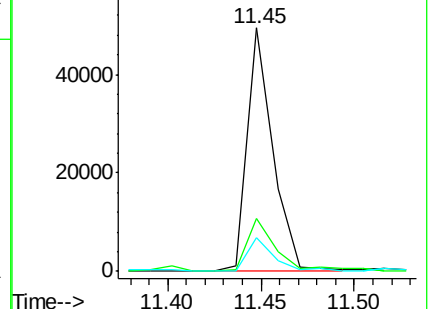
139 14.1 11.0 16.4



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: 32.35 ng

RT: 12.43 min Scan# 905

Delta R.T. 0.00 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

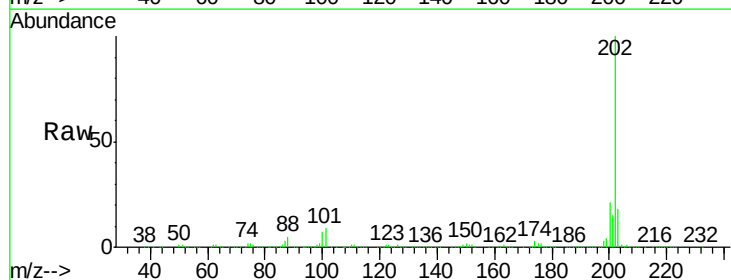
Tgt Ion:202 Resp: 899252

Ion Ratio Lower Upper

202 100

101 9.1 0.0 31.1

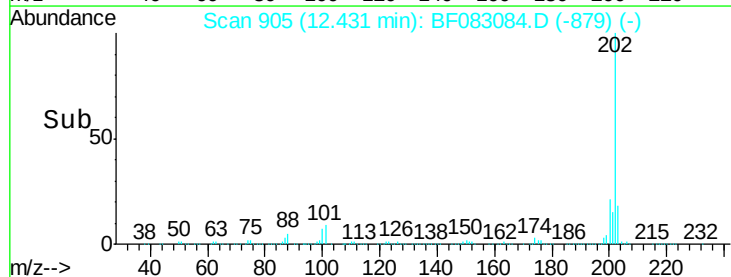
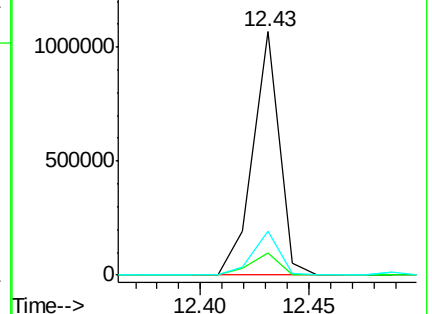
203 17.9 0.0 38.4

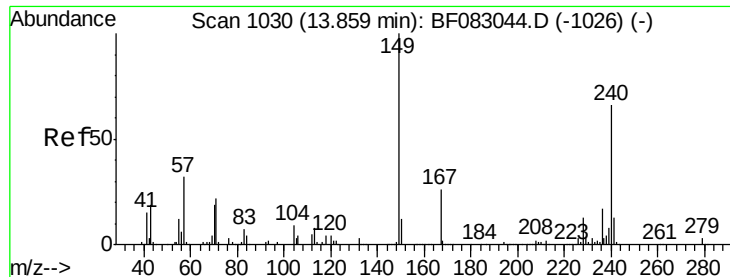


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.85 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Instrument :

BNA_F

ClientSampleId :

PM-1350DL

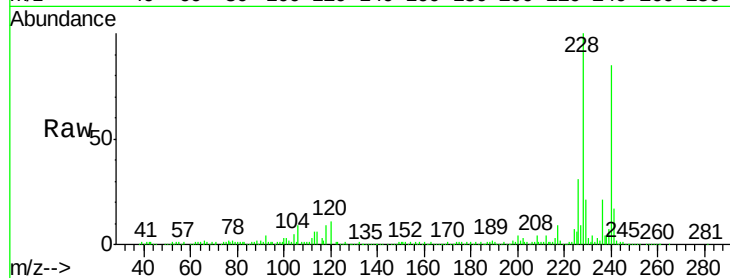
Tot Ion:240 Resp: 371953

Ion Ratio Lower Upper

240 100

120 13.0 5.3 7.9#

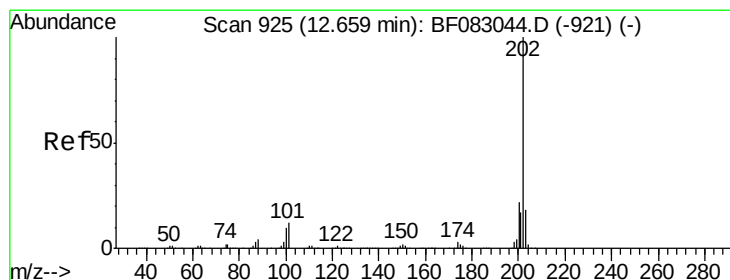
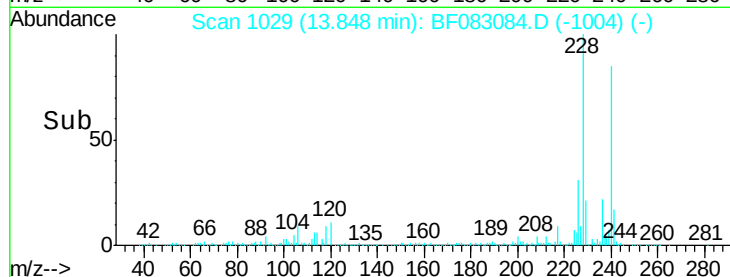
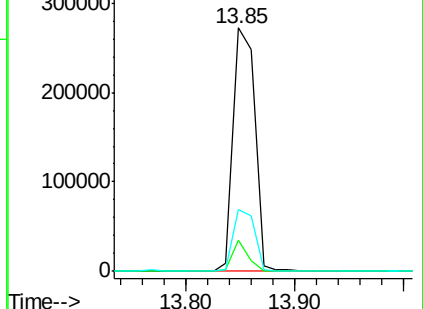
236 25.2 20.4 30.6



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: 31.68 ng

RT: 12.66 min Scan# 925

Delta R.T. 0.00 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

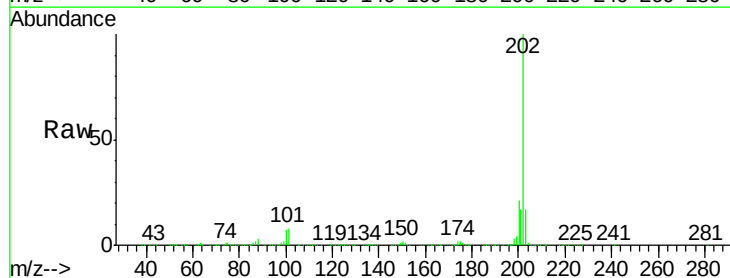
Tgt Ion:202 Resp: 829658

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

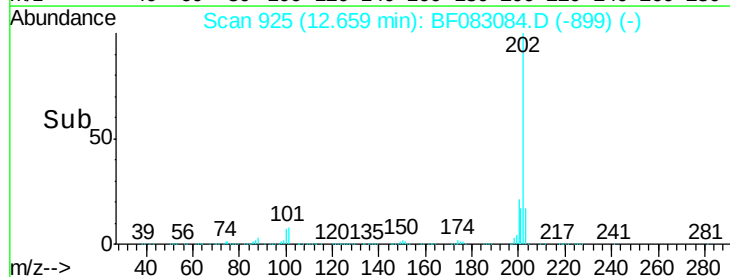
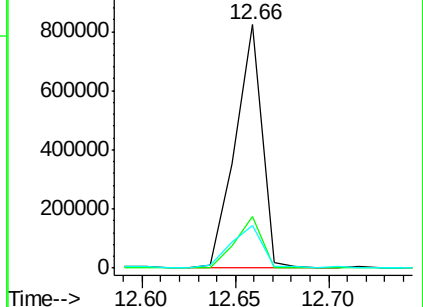
203 17.4 14.6 22.0

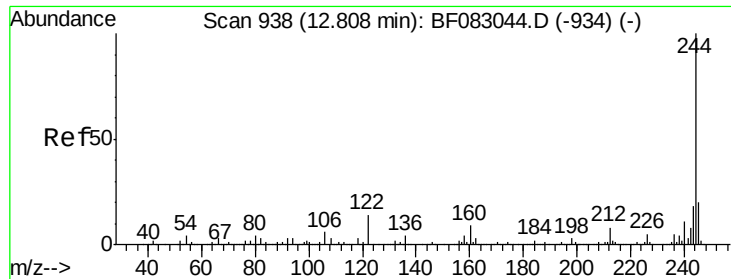


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 8.30 ng

RT: 12.81 min Scan# 938

Delta R.T. 0.00 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Instrument :

BNA_F

ClientSampleId :

PM-1350DL

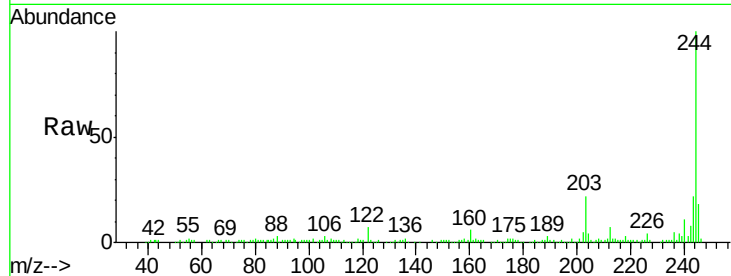
Tot Ion:244 Resp: 130821

Ion Ratio Lower Upper

244 100

212 6.6 6.4 9.6

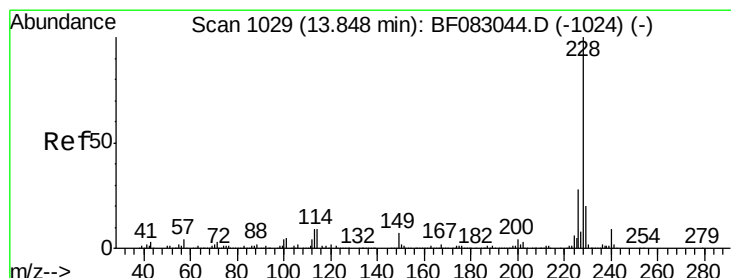
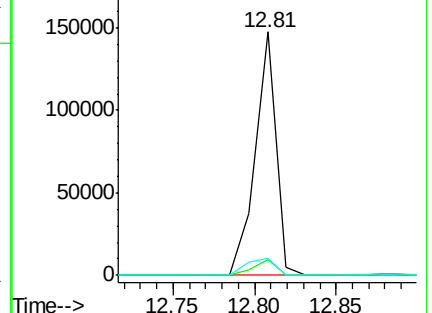
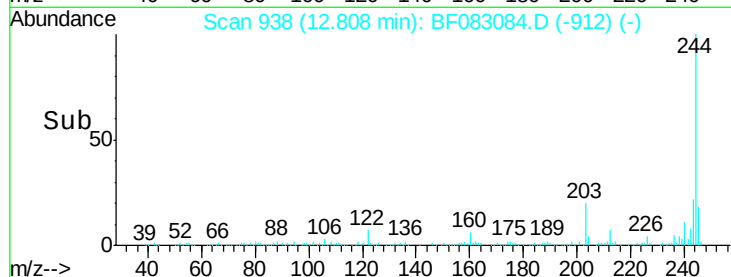
122 6.9 10.9 16.3#



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: 19.01 ng

RT: 13.85 min Scan# 1029

Delta R.T. 0.00 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

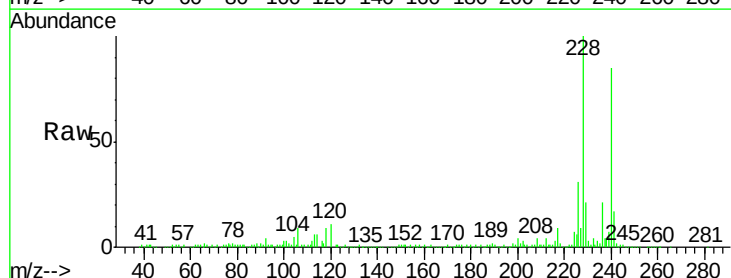
Tgt Ion:228 Resp: 449302

Ion Ratio Lower Upper

228 100

226 31.1 22.6 34.0

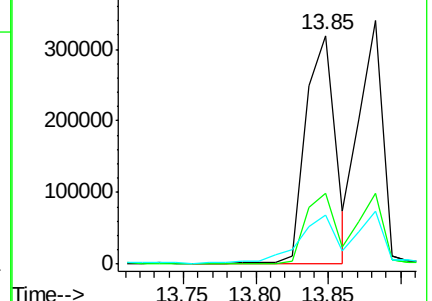
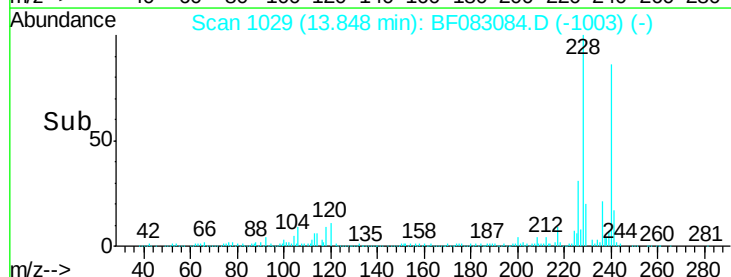
229 21.4 16.1 24.1

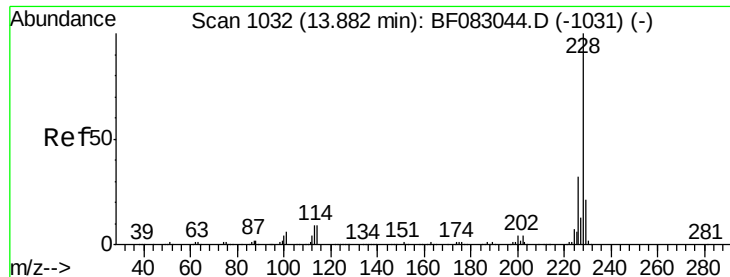


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 17.75 ng/mL

RT: 13.88 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Instrument:

BNA_F

ClientSampleID:

PM-1350DL

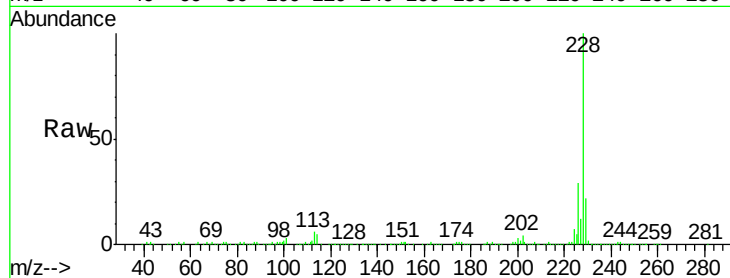
Tot Ion: 228 Resp: 384797

Ion Ratio Lower Upper

228 100

226 29.1 25.3 37.9

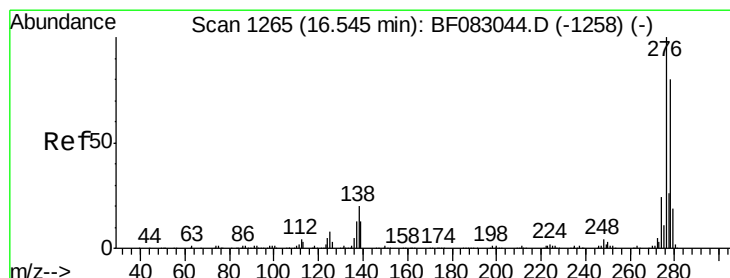
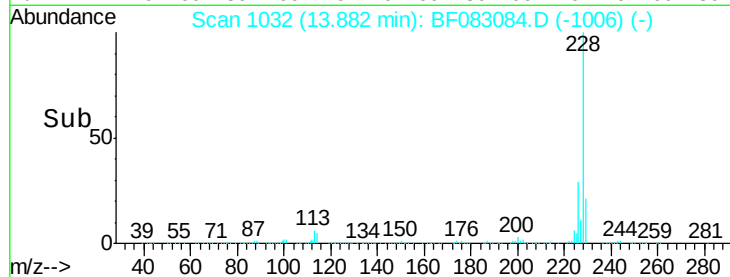
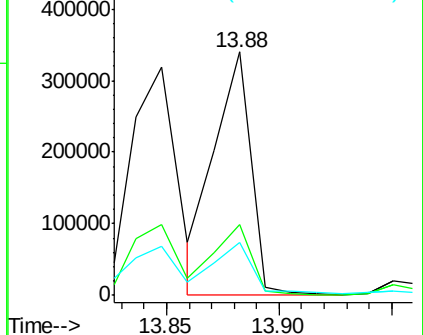
229 21.8 16.4 24.6



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: 7.84 ng/mL

RT: 16.53 min Scan# 1264

Delta R.T. -0.01 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

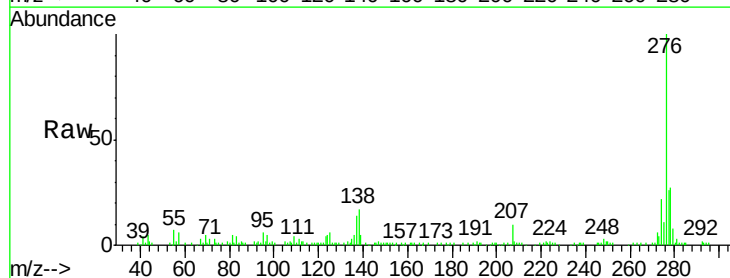
Tgt Ion: 276 Resp: 138342

Ion Ratio Lower Upper

276 100

138 19.1 16.3 24.5

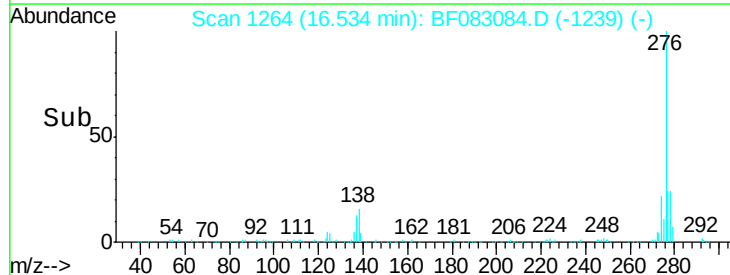
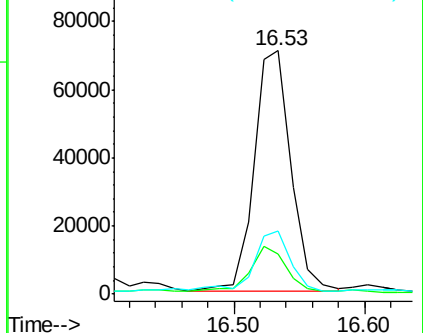
277 27.0 19.8 29.8

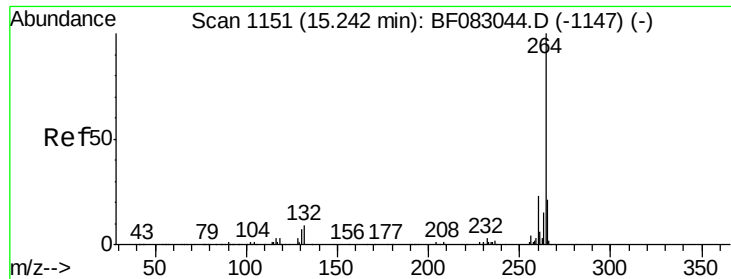


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

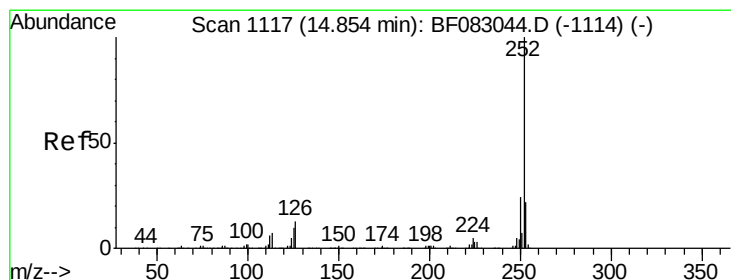
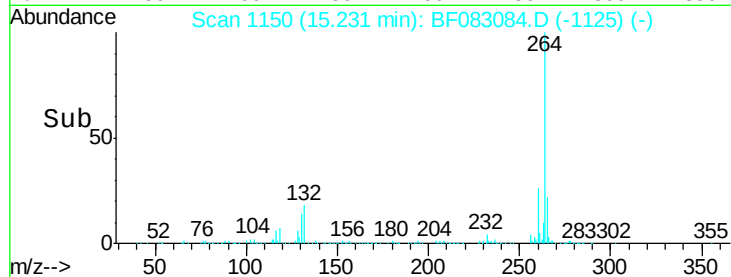
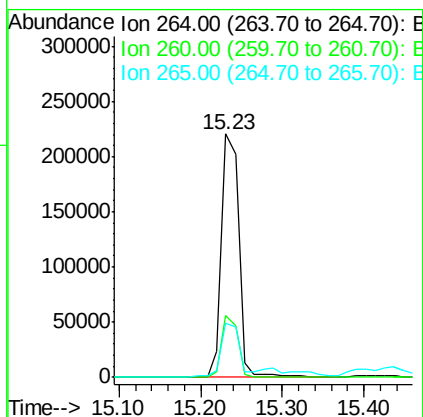
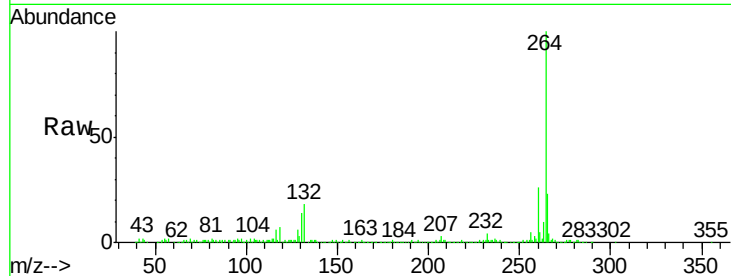




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.23 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF083084.D
Acq: 20 Nov 2015 16:23

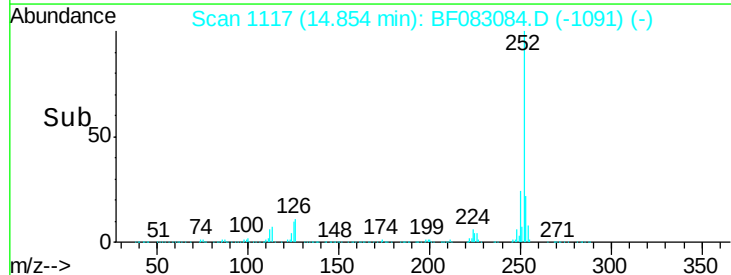
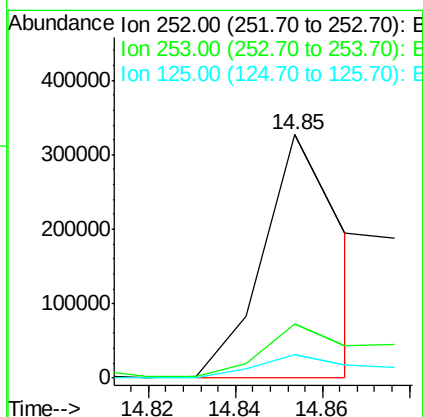
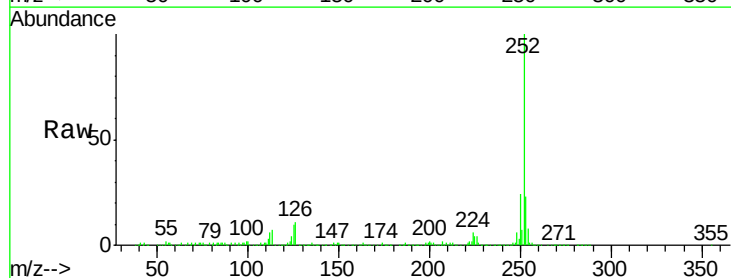
Instrument :
BNA_F
ClientSampleId :
PM-1350DL

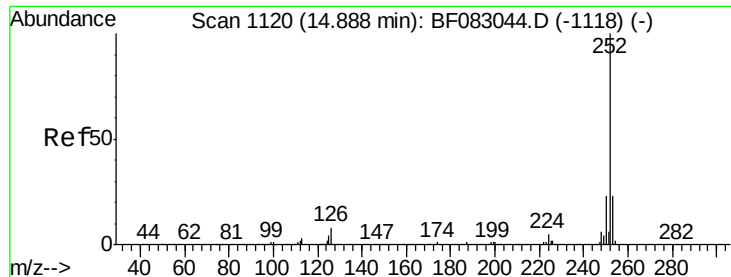
Tot Ion:264 Resp: 326756
Ion Ratio Lower Upper
264 100
260 25.5 18.6 27.8
265 22.5 17.0 25.6



#87
Benzo(b)fluoranthene
Concen: 18.18 ng m
RT: 14.85 min Scan# 1117
Delta R.T. 0.00 min
Lab File: BF083084.D
Acq: 20 Nov 2015 16:23

Tgt Ion:252 Resp: 415271
Ion Ratio Lower Upper
252 100
253 22.5 17.6 26.4
125 9.9 7.7 11.5





#88

Benzo(k)fluoranthene

Concen: 9.24 ng m

RT: 14.87 min Scan# 1118

Delta R.T. -0.02 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Instrument :

BNA_F

ClientSampleId :

PM-1350DL

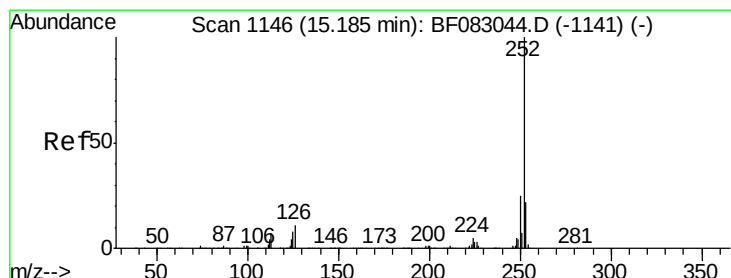
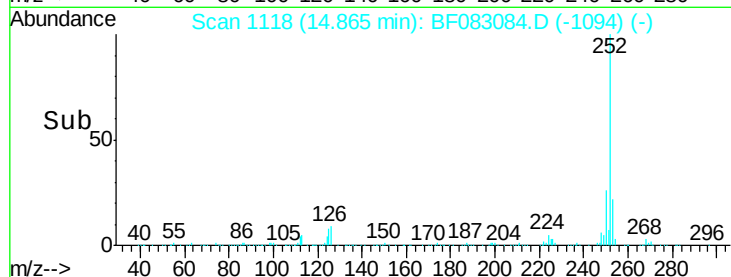
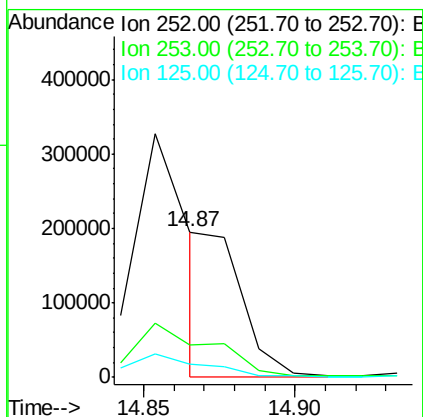
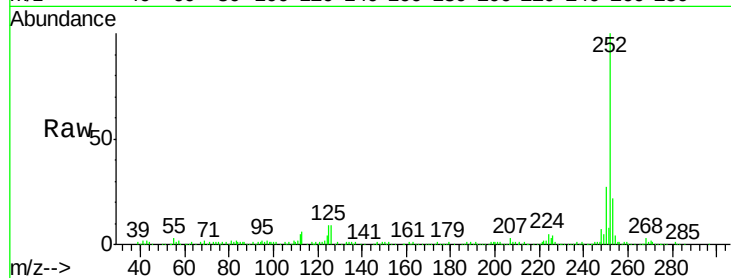
Tot Ion:252 Resp: 160793

Ion Ratio Lower Upper

252 100

253 22.1 17.8 26.6

125 8.7 3.8 5.6#



#89

Benzo(a)pyrene

Concen: 15.01 ng m

RT: 15.17 min Scan# 1145

Delta R.T. -0.01 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

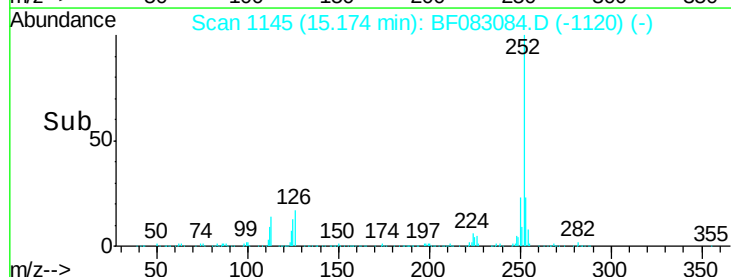
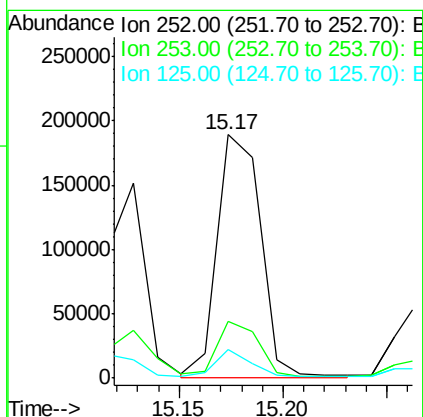
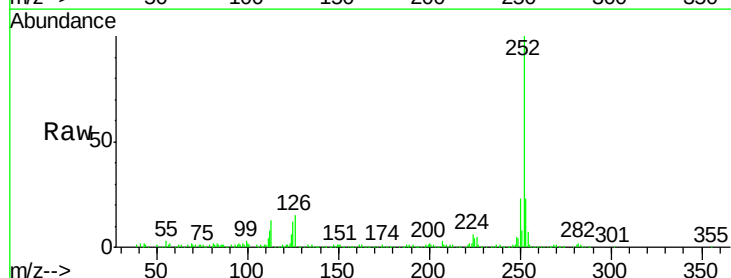
Tgt Ion:252 Resp: 275127

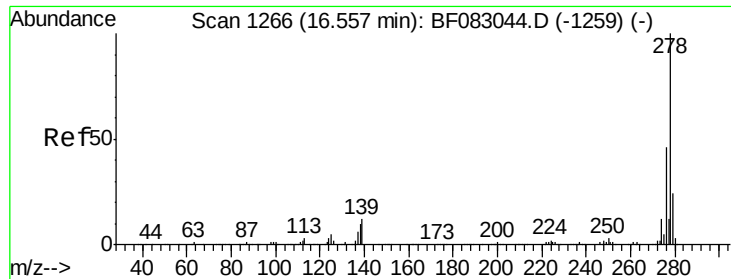
Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

125 11.7 6.4 9.6#





#90

Dibenzo(a,h)anthracene

Concen: 2.20 ng/mL

RT: 16.53 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

Instrument :

BNA_F

ClientSampleID :

PM-1350DL

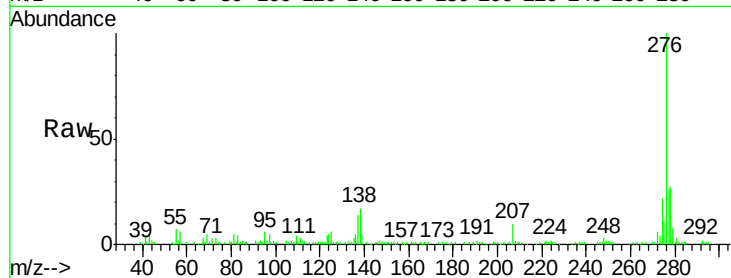
Tot Ion:278 Resp: 35143

Ion Ratio Lower Upper

278 100

139 17.0 9.8 14.8#

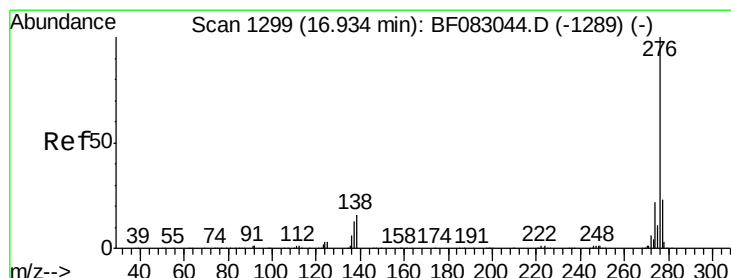
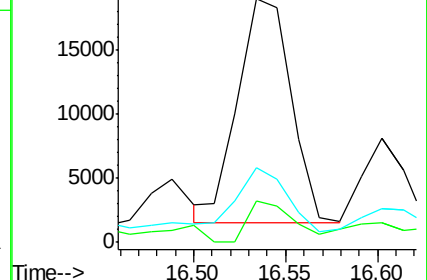
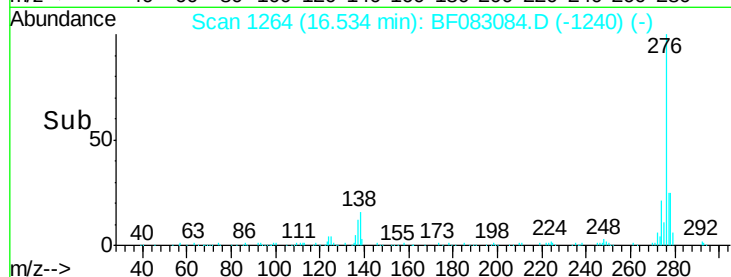
279 30.9 19.6 29.4#



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: 7.77 ng/mL

RT: 16.91 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF083084.D

Acq: 20 Nov 2015 16:23

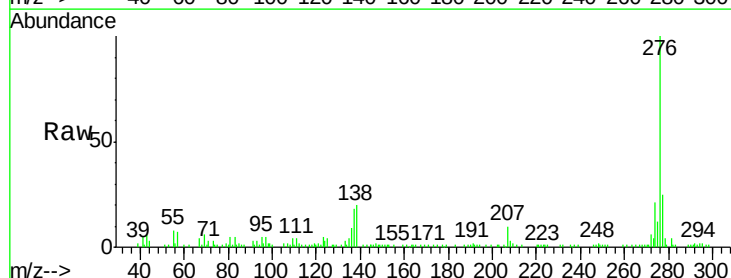
Tgt Ion:276 Resp: 121007

Ion Ratio Lower Upper

276 100

277 25.4 18.6 27.8

138 20.0 12.5 18.7#



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

