

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012517\
 Data File : BF092505.D
 Acq On : 26 Jan 2017 4:22
 Operator : SJ/MA
 Sample : I1346-04
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P14-11917

Quant Time: Jan 26 12:37:03 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 13:48:07 2017
 Response via : Initial Calibration

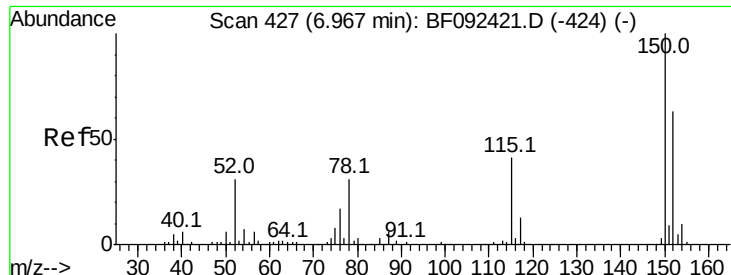
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	149388	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	609113	20.00	ng	-0.01
38) Acenaphthene-d10	10.03	164	321346	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	544805	20.00	ng	-0.01
75) Chrysene-d12	14.15	240	416037	20.00	ng	-0.02
86) Perylene-d12	15.63	264	340034	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.56	112	1007436	104.92	ng	0.01
7) Phenol-d6	6.59	99	1429895	116.91	ng	0.00
23) Nitrobenzene-d5	7.53	82	791739	71.00	ng	-0.01
41) 2,4,6-Tribromophenol	10.82	330	298256	136.20	ng	0.00
44) 2-Fluorobiphenyl	9.34	172	1378608	79.33	ng	-0.01
78) Terphenyl-d14	13.11	244	1351978	86.53	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.60	94	84125	5.70	ng	# 63
49) Dimethylphthalate	9.73	163	112427	5.50	ng	# 96
51) Acenaphthene	10.05	154	111106	6.43	ng	94
54) Dibenzofuran	10.22	168	151015	6.43	ng	99
57) Fluorene	10.57	166	106669	6.13	ng	98
70) Phenanthrene	11.54	178	553962	18.46	ng	98
71) Anthracene	11.58	178	158891	5.42	ng	96
72) Carbazole	11.73	167	160280	5.73	ng	97
74) Fluoranthene	12.73	202	595449	20.29	ng	93
77) Pyrene	12.96	202	541626	17.97	ng	98
80) Benzo(a)anthracene	14.13	228	172902	7.73	ng	99
82) Chrysene	14.17	228	114324m	4.79	ng	
85) Indeno(1,2,3-cd)pyrene	17.09	276	40754	2.31	ng	# 86
87) Benzo(b)fluoranthene	15.19	252	125184m	5.73	ng	
89) Benzo(a)pyrene	15.56	252	75221	4.07	ng	100
91) Benzo(g,h,i)perylene	17.54	276	42965	2.85	ng	# 90

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

```
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Sample    : I1346-04  
Misc      :  
ALS Vial  : 40    Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.97 min Scan# 427

Delta R.T. 0.00 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

BNA_F

ClientSampleId :

P14-11917

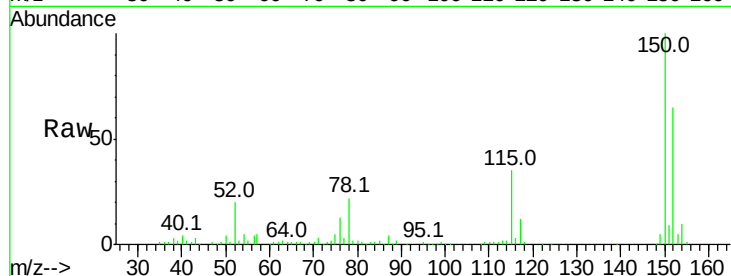
Tot Ion:152 Resp: 149388

Ion Ratio Lower Upper

152 100

150 155.0 124.9 187.3

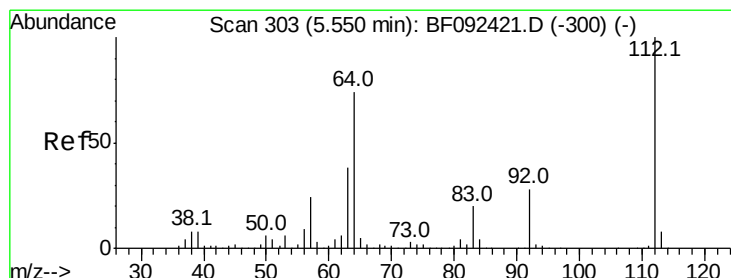
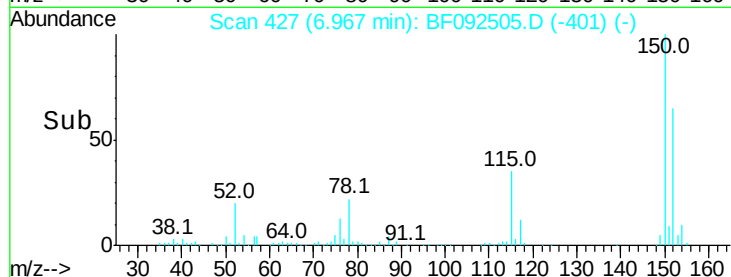
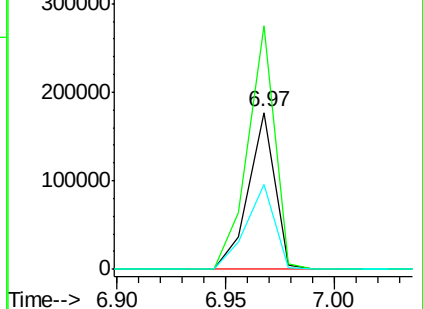
115 54.1 46.0 69.0



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: 104.92 ng

RT: 5.56 min Scan# 304

Delta R.T. 0.01 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

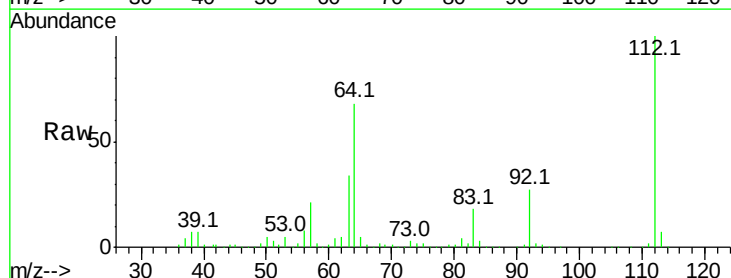
Tgt Ion:112 Resp: 1007436

Ion Ratio Lower Upper

112 100

64 67.7 46.1 69.1

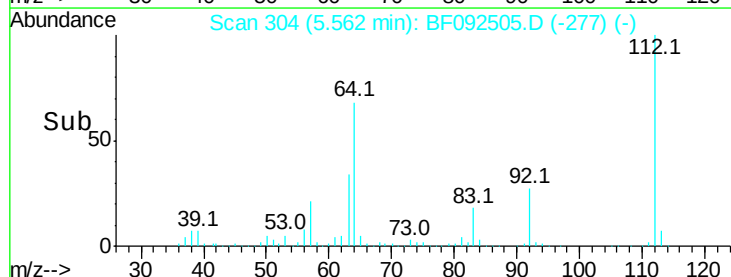
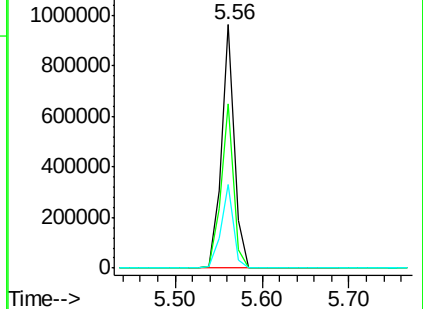
63 34.2 23.8 35.6

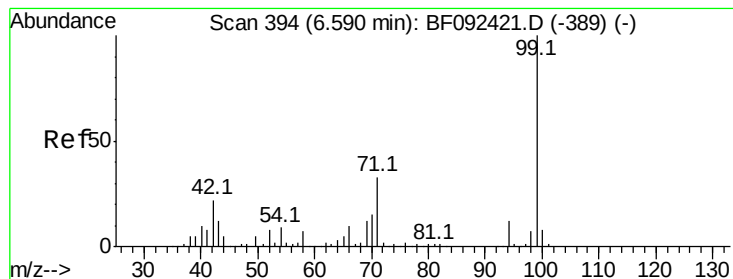


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 116.91 ng

RT: 6.59 min Scan# 394

Delta R.T. 0.00 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

BNA_F

ClientSampleId :

P14-11917

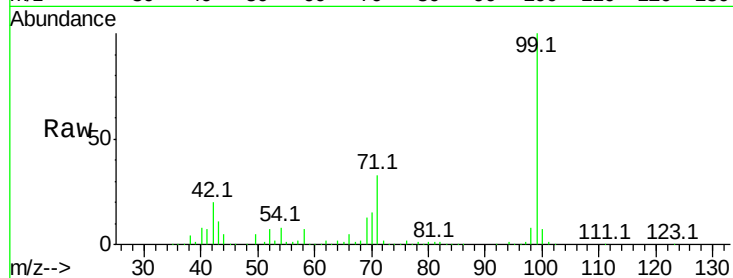
Tot Ion: 99 Resp: 1429895

Ion	Ratio	Lower	Upper
99	100		
42	20.4	15.6	23.4
71	33.1	27.5	41.3

99 100

42 20.4 15.6 23.4

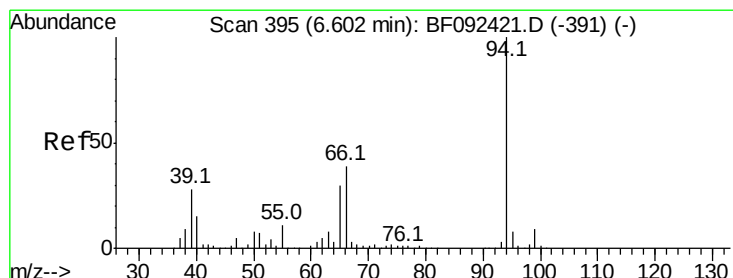
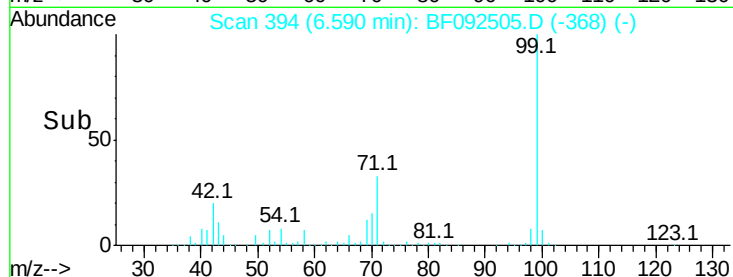
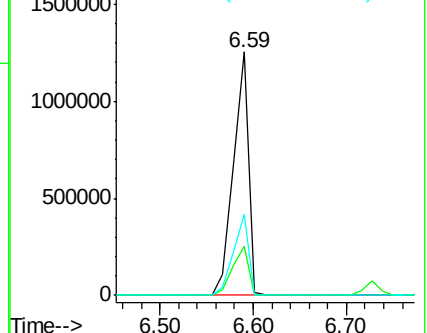
71 33.1 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 5.70 ng

RT: 6.60 min Scan# 395

Delta R.T. 0.00 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

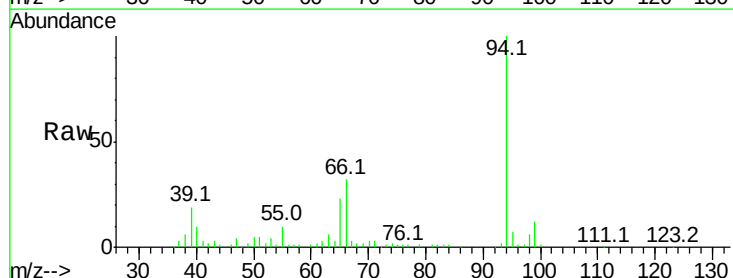
Tgt Ion: 94 Resp: 84125

Ion	Ratio	Lower	Upper
94	100		
65	22.9	21.4	61.4
66	31.8	44.0	84.0#

94 100

65 22.9 21.4 61.4

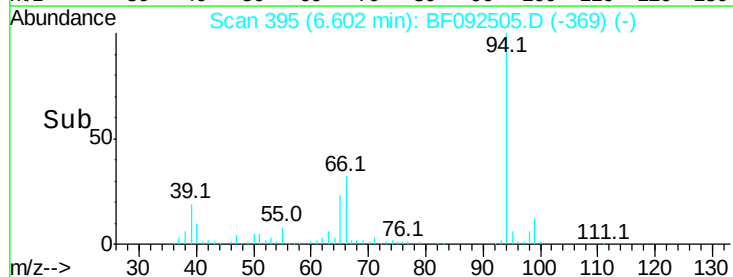
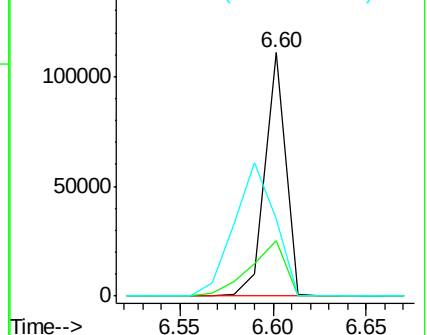
66 31.8 44.0 84.0#

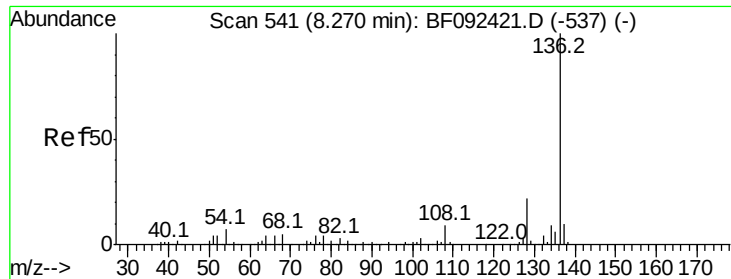


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.26 min Scan# 540

Delta R.T. -0.01 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

BNA_F

ClientSampleId :

P14-11917

Tot Ion:136 Resp: 609113

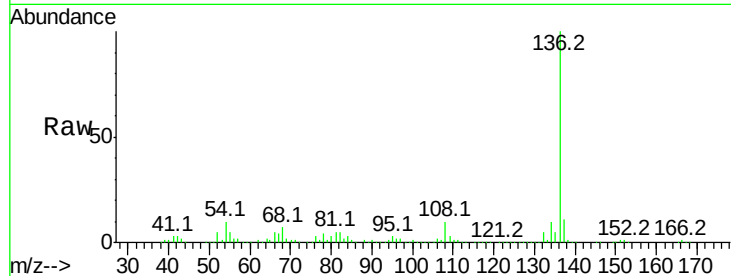
Ion Ratio Lower Upper

136 100

137 11.2 8.4 12.6

54 10.3 4.5 6.7#

68 7.4 3.6 5.4#

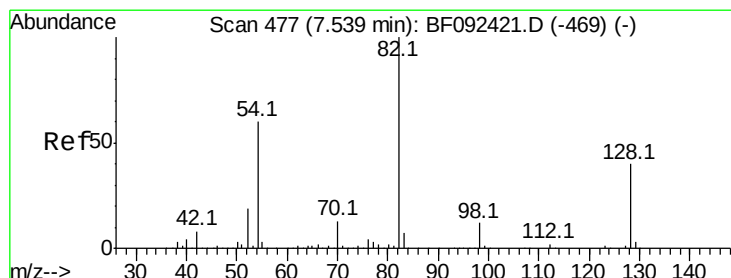
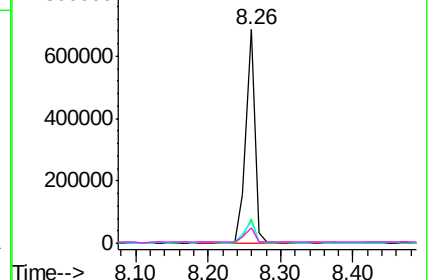
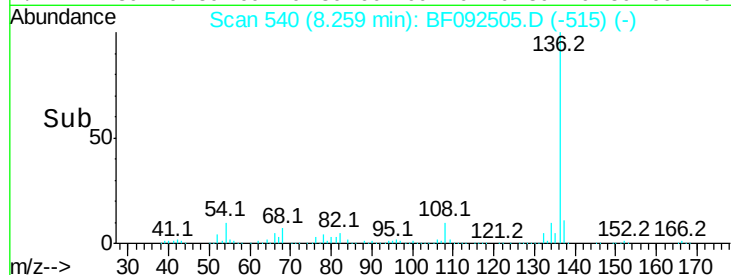


Abundance Ion 136.00 (135.70 to 136.70): E

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: 71.00 ng

RT: 7.53 min Scan# 476

Delta R.T. -0.01 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

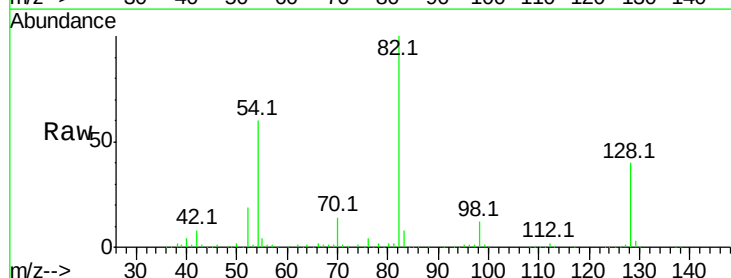
Tgt Ion: 82 Resp: 791739

Ion Ratio Lower Upper

82 100

128 39.6 34.6 52.0

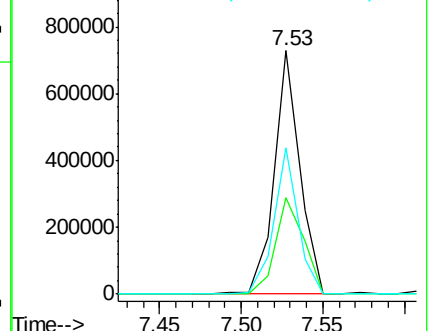
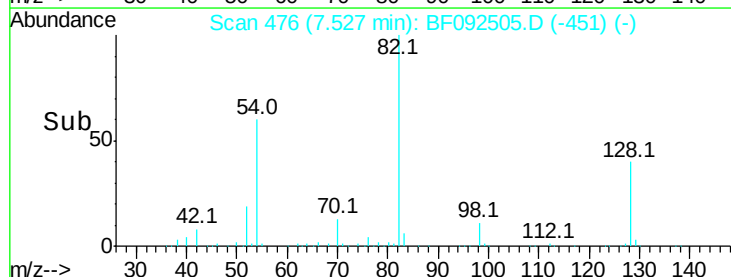
54 60.1 39.5 59.3#

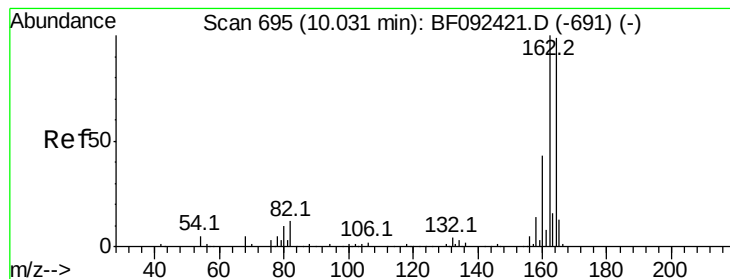


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 10.03 min Scan# 695

Delta R.T. 0.00 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

BNA_F

ClientSampleId :

P14-11917

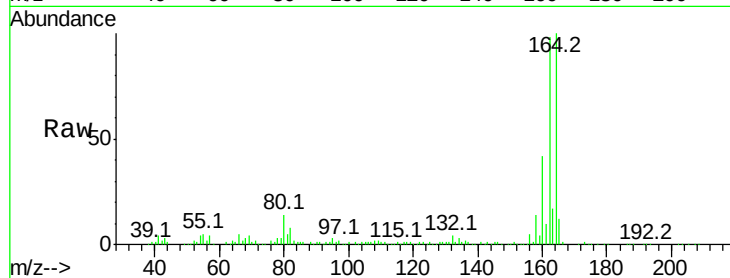
Tot Ion:164 Resp: 321346

Ion Ratio Lower Upper

164 100

162 97.7 80.2 120.2

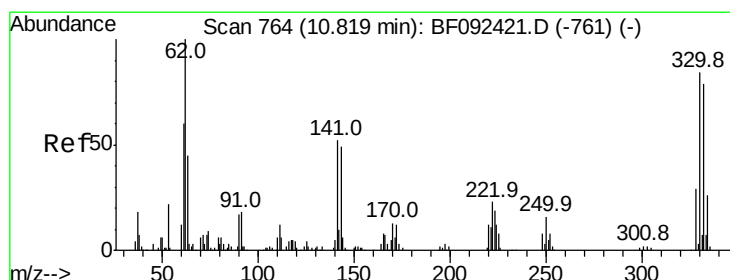
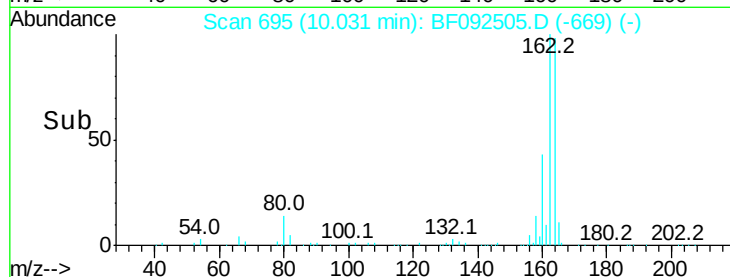
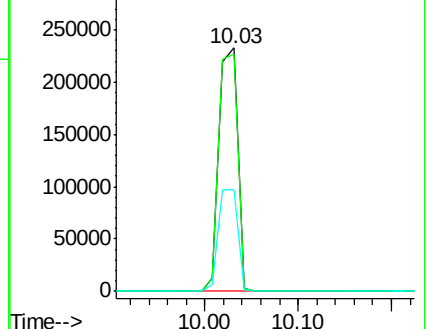
160 41.8 36.9 55.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 136.20 ng

RT: 10.82 min Scan# 764

Delta R.T. 0.00 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

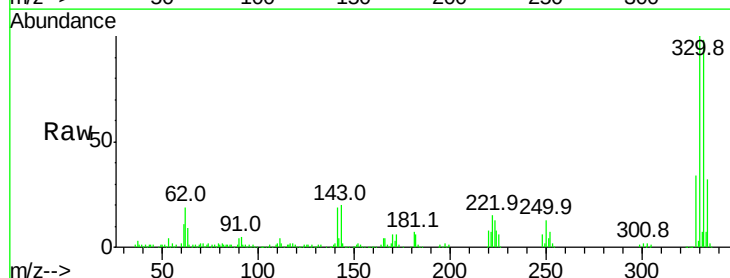
Tgt Ion:330 Resp: 298256

Ion Ratio Lower Upper

330 100

332 96.1 77.4 116.2

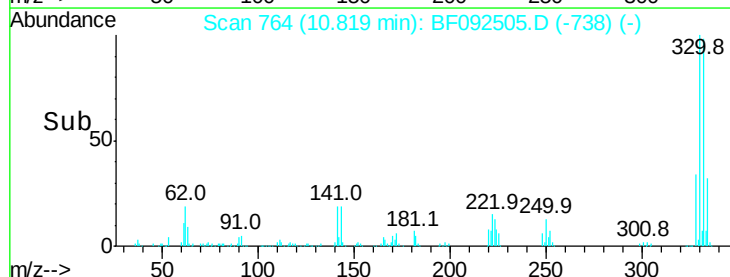
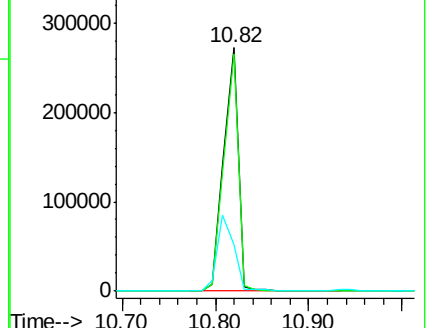
141 35.7 34.1 51.1

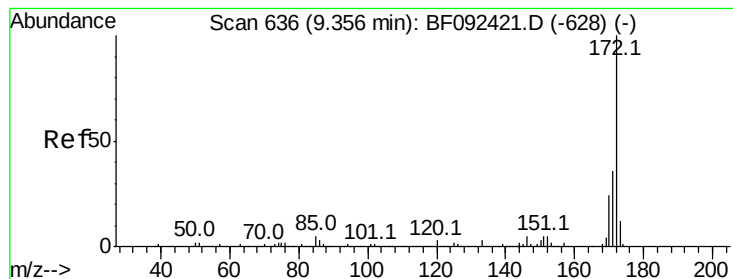


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

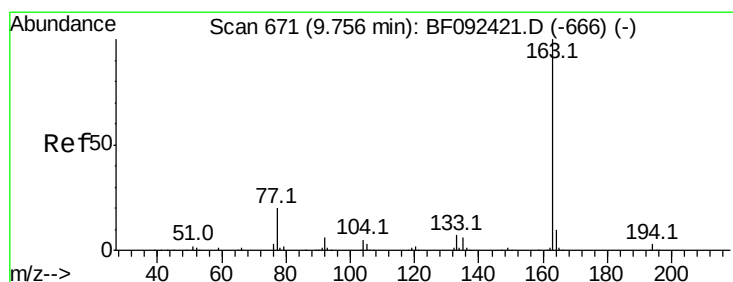
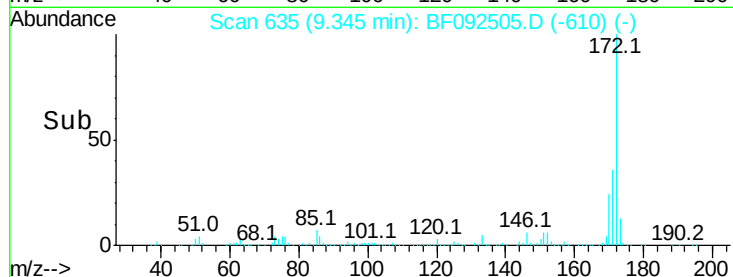
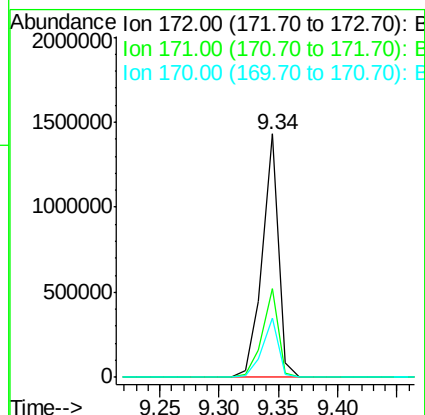
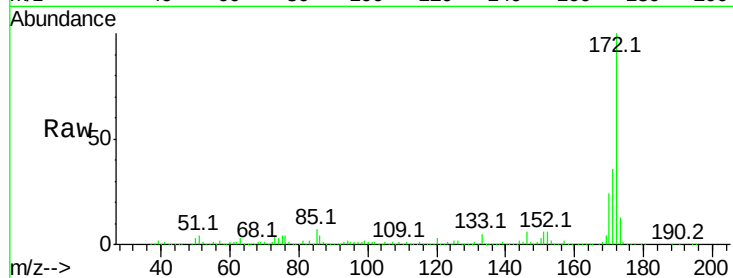




#44
2-Fluorobiphenyl
Concen: 79.33 ng
RT: 9.34 min Scan# 635
Delta R.T. -0.01 min
Lab File: BF092505.D
Acq: 26 Jan 2017 4:22

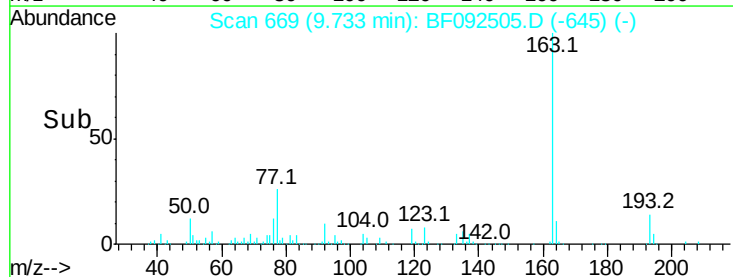
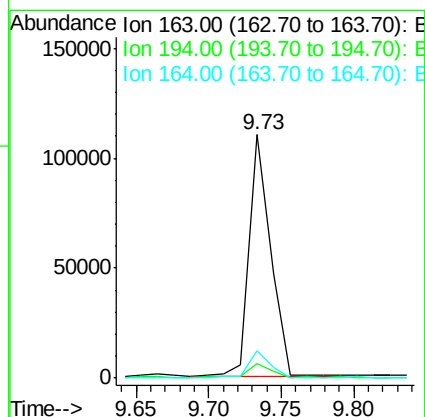
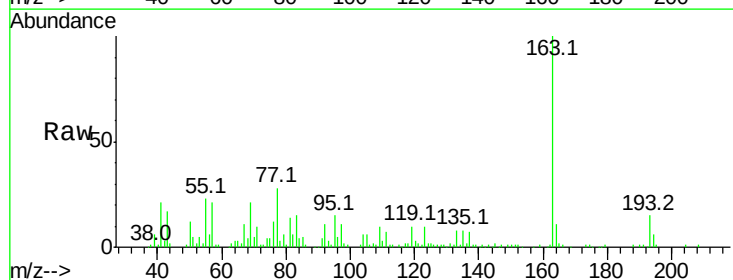
Instrument :
BNA_F
ClientSampleId :
P14-11917

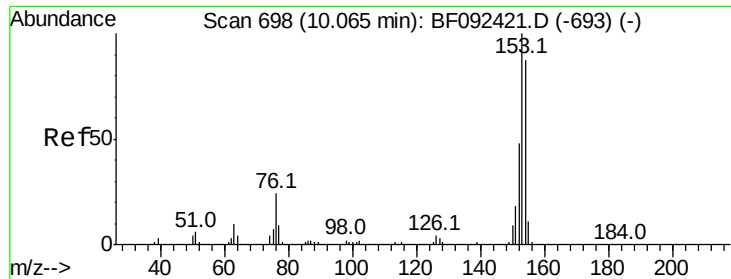
Tot Ion:172 Resp: 1378608
Ion Ratio Lower Upper
172 100
171 36.2 29.4 44.0
170 24.5 20.2 30.4



#49
Dimethylphthalate
Concen: 5.50 ng
RT: 9.73 min Scan# 669
Delta R.T. -0.02 min
Lab File: BF092505.D
Acq: 26 Jan 2017 4:22

Tgt Ion:163 Resp: 112427
Ion Ratio Lower Upper
163 100
194 5.9 3.0 4.4#
164 11.2 8.0 12.0





#51

Acenaphthene

Concen: 6.43 ng

RT: 10.05 min Scan# 697

Delta R.T. -0.01 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

BNA_F

ClientSampleId :

P14-11917

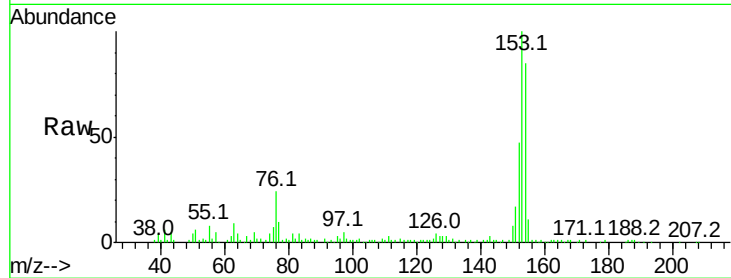
Tot Ion:154 Resp: 111106

Ion Ratio Lower Upper

154 100

153 117.9 88.6 133.0

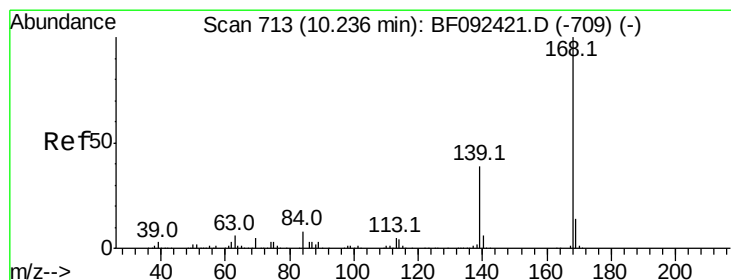
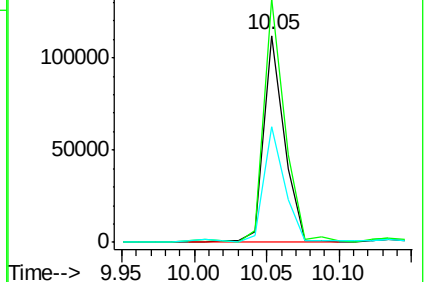
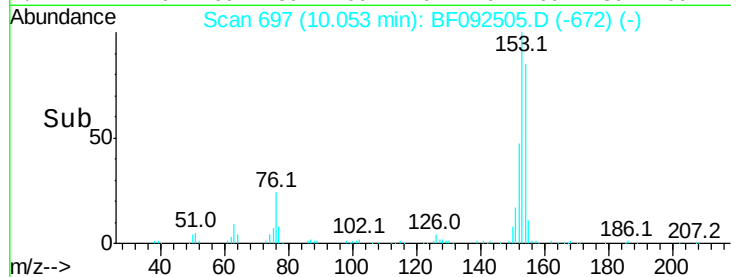
152 55.8 41.6 62.4



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: 6.43 ng

RT: 10.22 min Scan# 712

Delta R.T. -0.01 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

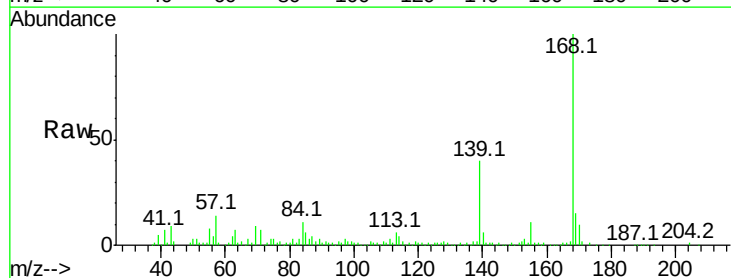
Tgt Ion:168 Resp: 151015

Ion Ratio Lower Upper

168 100

139 40.5 32.6 49.0

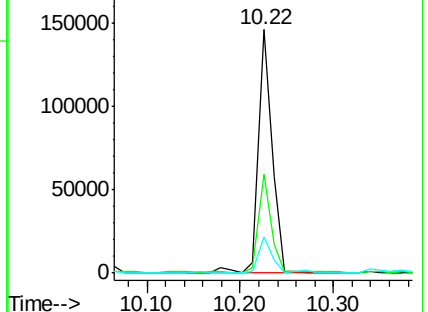
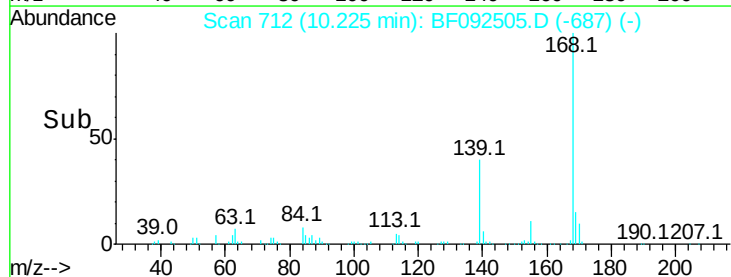
169 15.0 11.3 16.9

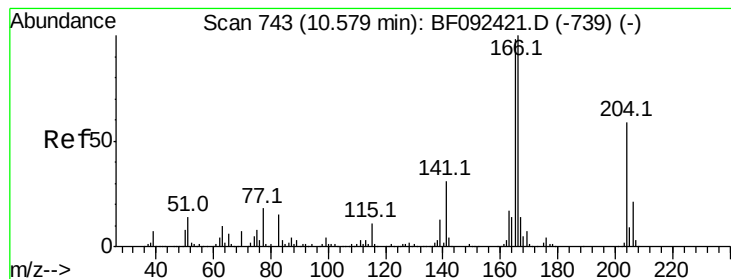


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 6.13 ng

RT: 10.57 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

BNA_F

ClientSampleId :

P14-11917

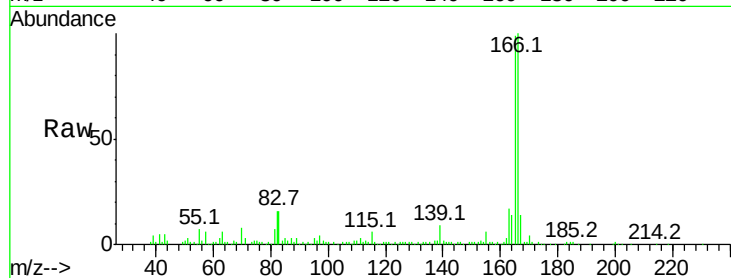
Tot Ion:166 Resp: 106669

Ion Ratio Lower Upper

166 100

165 99.0 77.8 116.8

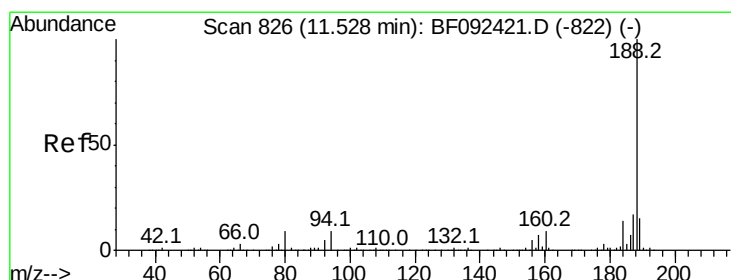
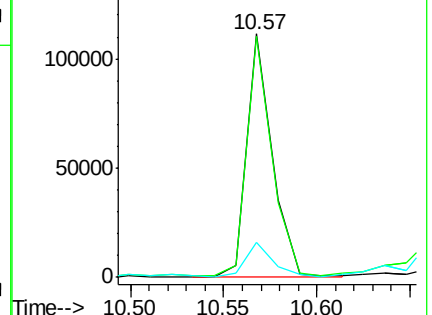
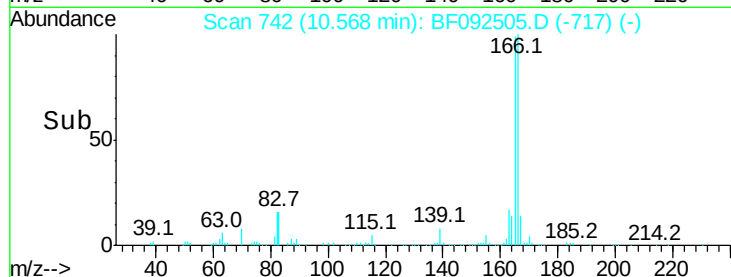
167 14.4 10.8 16.2



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: 11.52 min Scan# 825

Delta R.T. -0.01 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

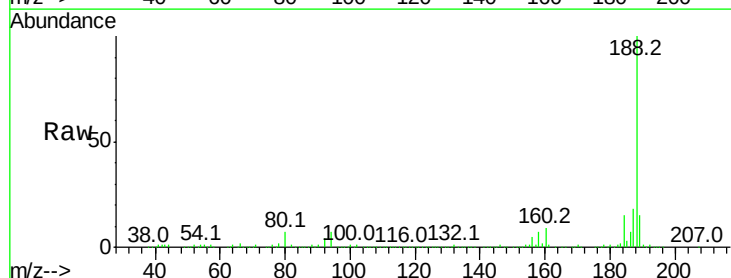
Tgt Ion:188 Resp: 544805

Ion Ratio Lower Upper

188 100

94 7.2 10.0 15.0#

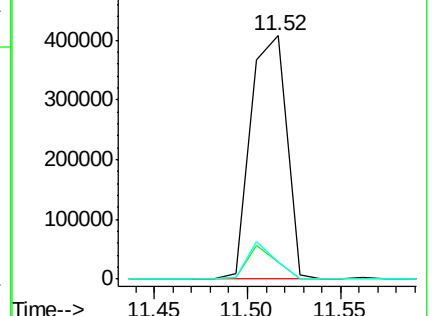
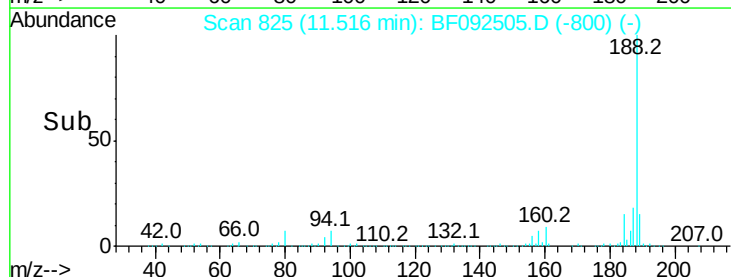
80 7.1 11.2 16.8#

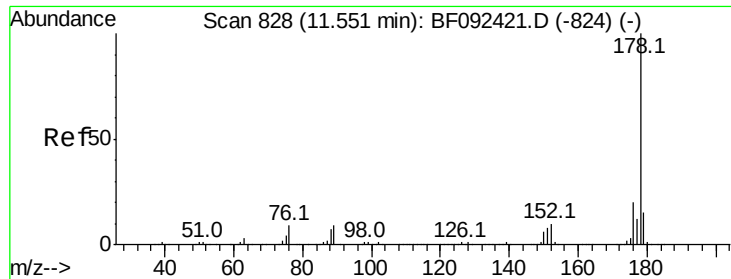


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

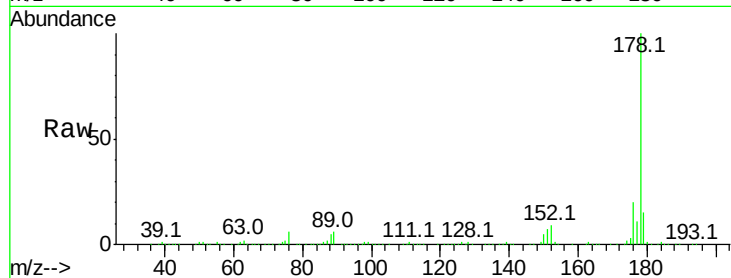




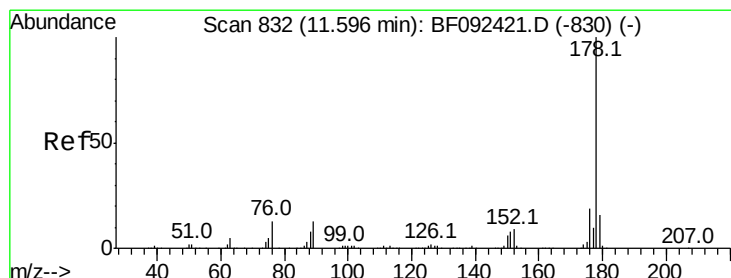
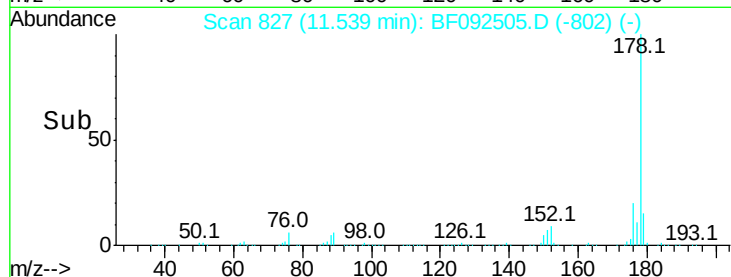
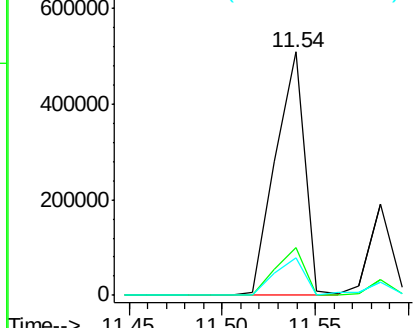
#70
Phenanthrene
Concen: 18.46 ng
RT: 11.54 min Scan# 827
Delta R.T. -0.01 min
Lab File: BF092505.D
Acq: 26 Jan 2017 4:22

Instrument :
BNA_F
ClientSampleId :
P14-11917

Tot Ion:178 Resp: 553962
Ion Ratio Lower Upper
178 100
176 19.5 16.6 25.0
179 15.2 12.8 19.2

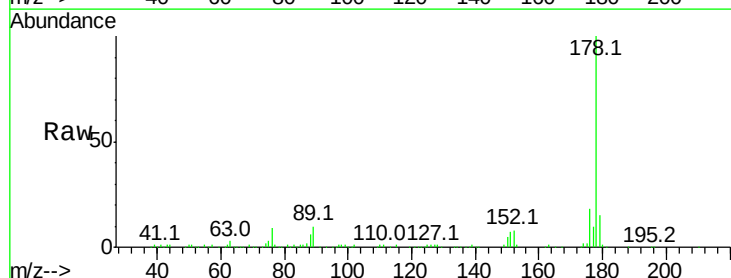


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

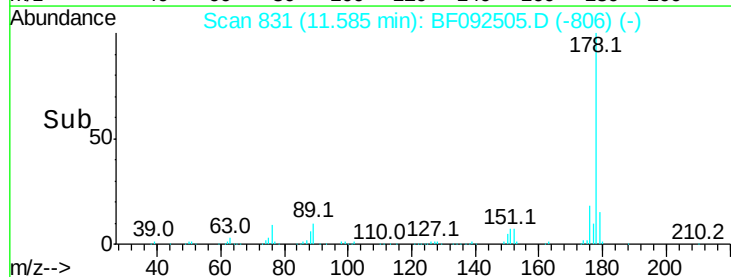
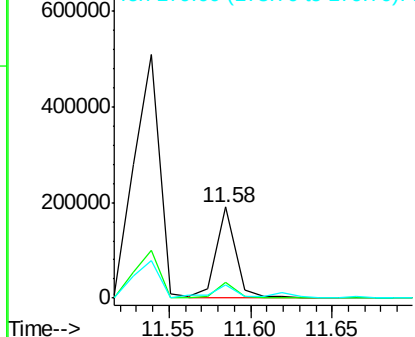


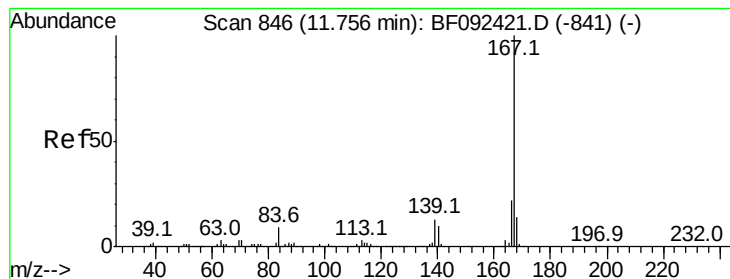
#71
Anthracene
Concen: 5.42 ng
RT: 11.58 min Scan# 831
Delta R.T. -0.01 min
Lab File: BF092505.D
Acq: 26 Jan 2017 4:22

Tgt Ion:178 Resp: 158891
Ion Ratio Lower Upper
178 100
176 17.8 15.9 23.9
179 15.0 13.2 19.8



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





#72

Carbazole

Concen: 5.73 ng

RT: 11.73 min Scan# 844

Delta R.T. -0.02 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

BNA_F

ClientSampleId :

P14-11917

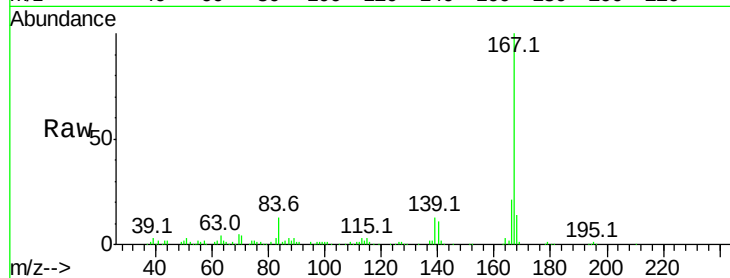
Tot Ion:167 Resp: 160280

Ion Ratio Lower Upper

167 100

166 21.2 18.2 27.2

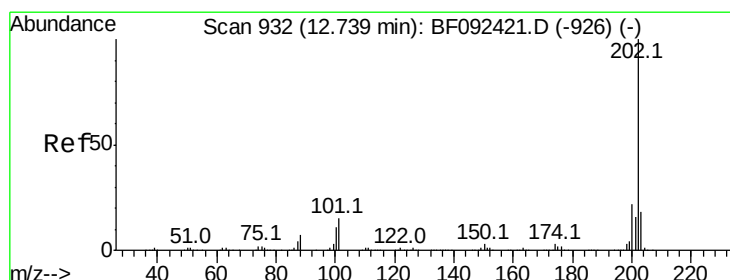
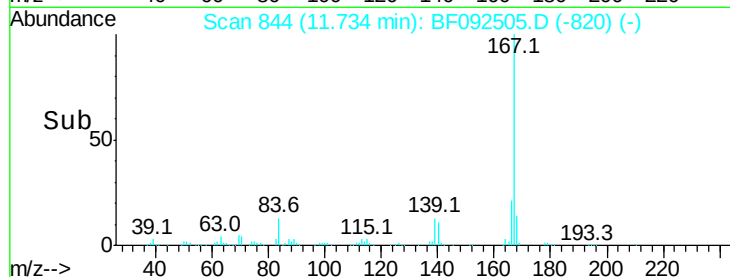
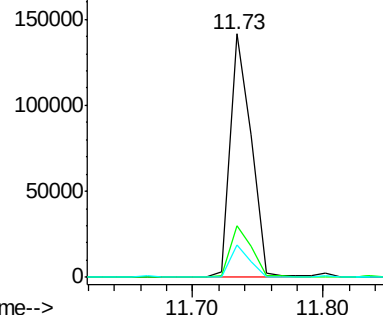
139 13.3 11.4 17.2



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: 20.29 ng

RT: 12.73 min Scan# 931

Delta R.T. -0.01 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

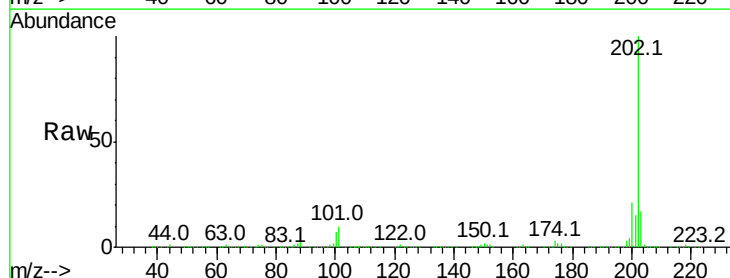
Tgt Ion:202 Resp: 595449

Ion Ratio Lower Upper

202 100

101 9.6 0.0 34.6

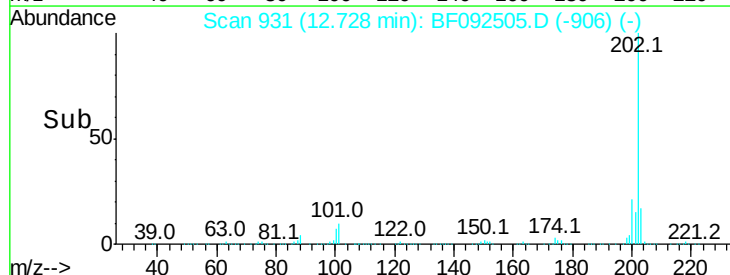
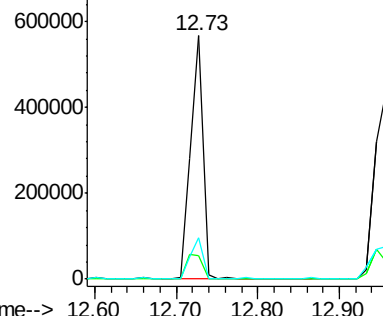
203 17.0 0.0 38.7

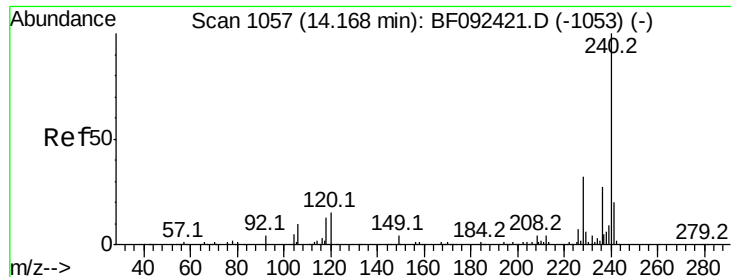


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.15 min Scan# 1055

Delta R.T. -0.02 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

BNA_F

ClientSampleId :

P14-11917

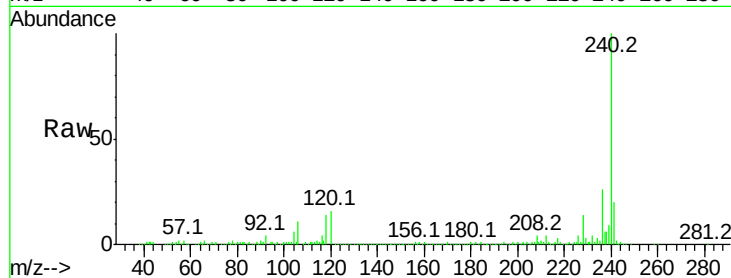
Tot Ion:240 Resp: 416037

Ion Ratio Lower Upper

240 100

120 15.5 12.9 19.3

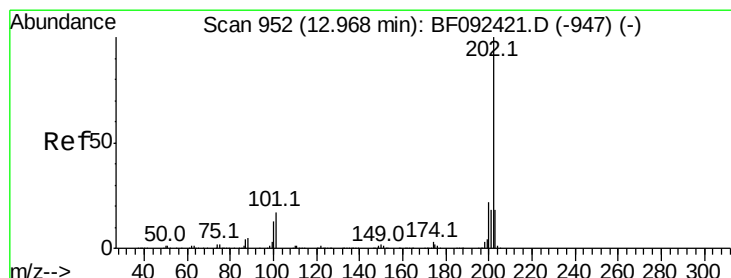
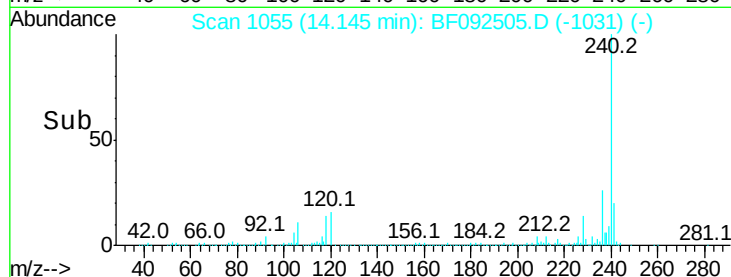
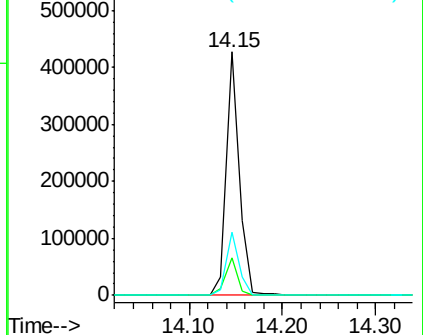
236 26.1 20.9 31.3



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: 17.97 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

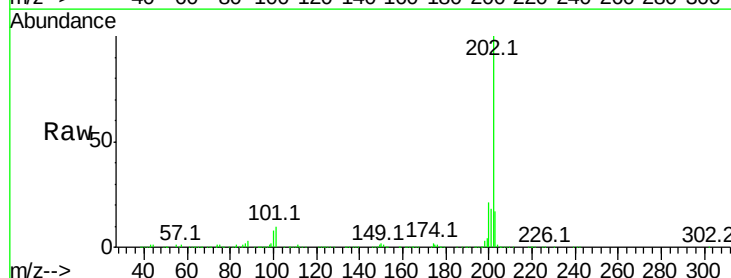
Tgt Ion:202 Resp: 541626

Ion Ratio Lower Upper

202 100

200 21.2 17.7 26.5

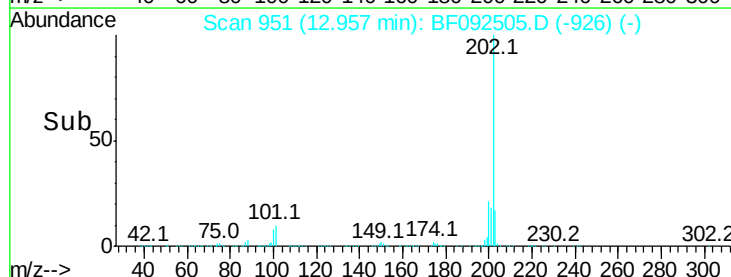
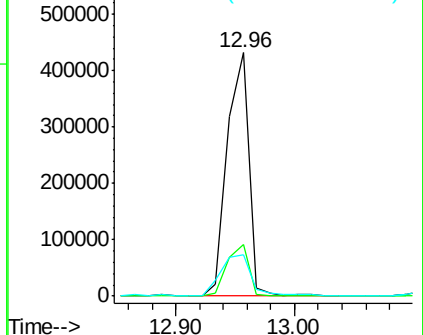
203 17.2 14.7 22.1

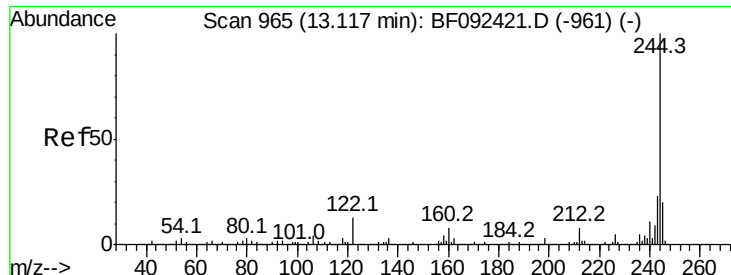


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 86.53 ng

RT: 13.11 min Scan# 964

Delta R.T. -0.01 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

BNA_F

ClientSampleId :

P14-11917

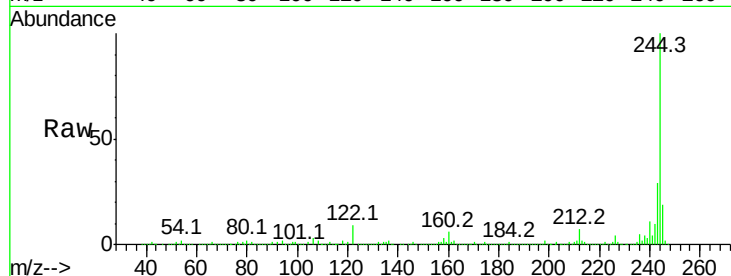
Tot Ion:244 Resp: 1351978

Ion Ratio Lower Upper

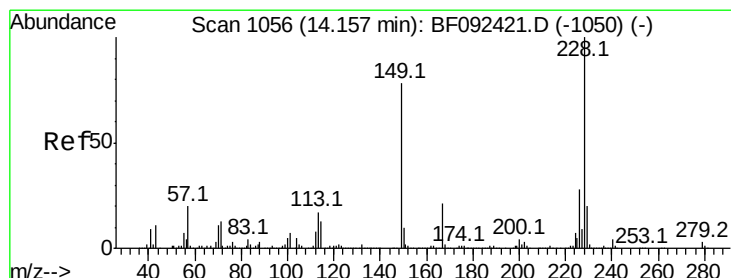
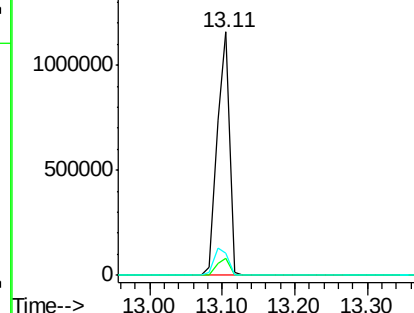
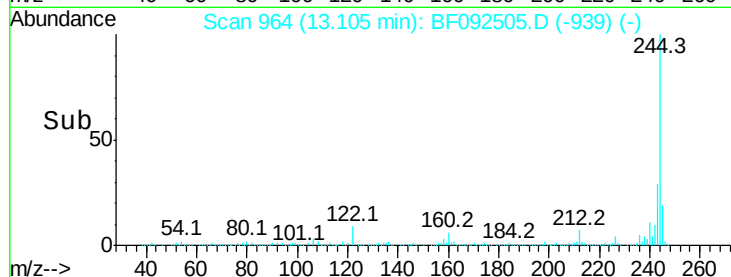
244 100

212 7.2 6.2 9.2

122 9.2 11.4 17.2#



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: 7.73 ng

RT: 14.13 min Scan# 1054

Delta R.T. -0.02 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

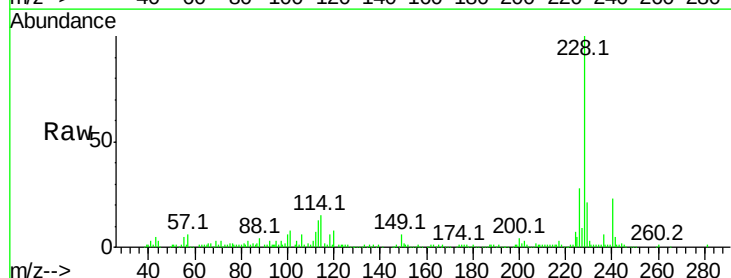
Tgt Ion:228 Resp: 172902

Ion Ratio Lower Upper

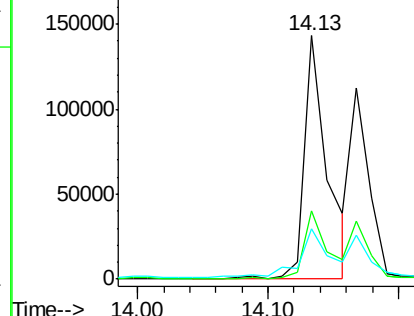
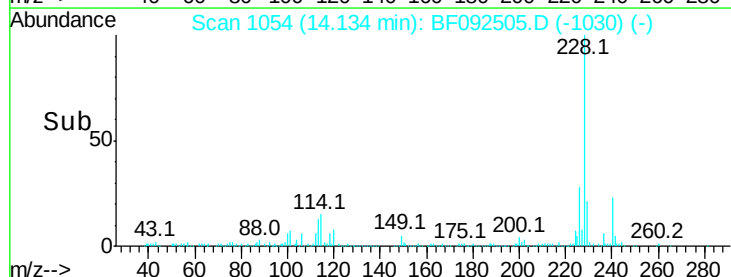
228 100

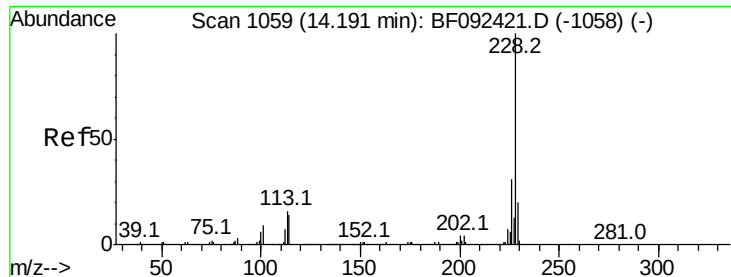
226 28.2 22.4 33.6

229 20.9 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





#82

Chrysene

Concen: 4.79 ng/mL

RT: 14.17 min Scan# 1057

Delta R.T. -0.02 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

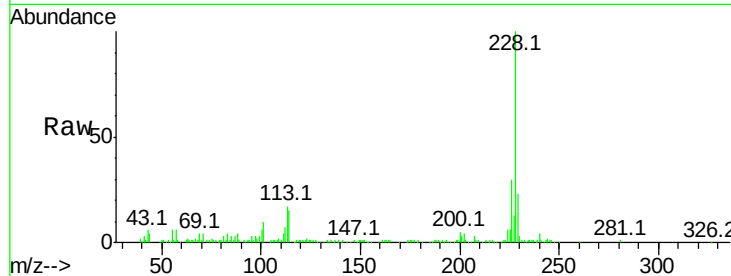
BNA_F

ClientSampleId :

P14-11917

Tot Ion:228 Resp: 114324

Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.4	38.0
229	22.9	16.2	24.2

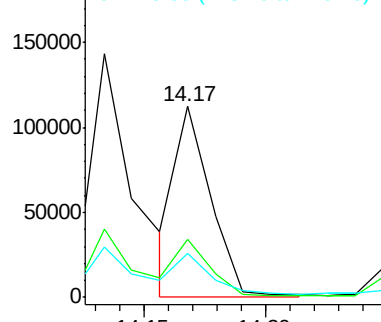


Abundance

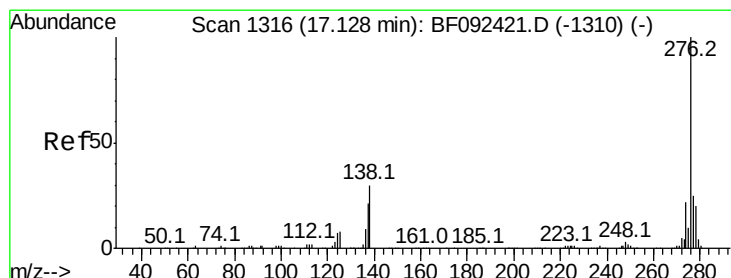
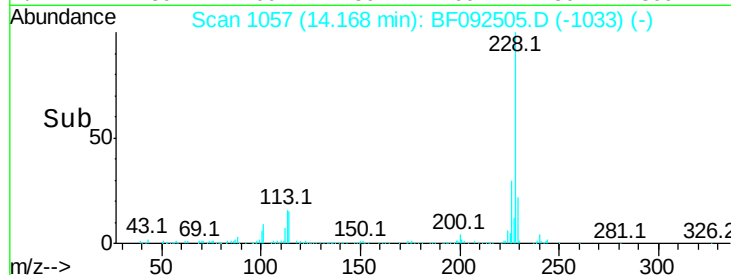
Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.31 ng/mL

RT: 17.09 min Scan# 1313

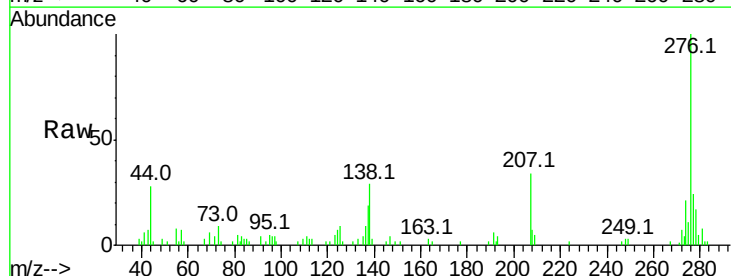
Delta R.T. -0.03 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Tgt Ion:276 Resp: 40754

Ion	Ratio	Lower	Upper
276	100		
138	31.2	21.8	32.6
277	35.8	20.2	30.4

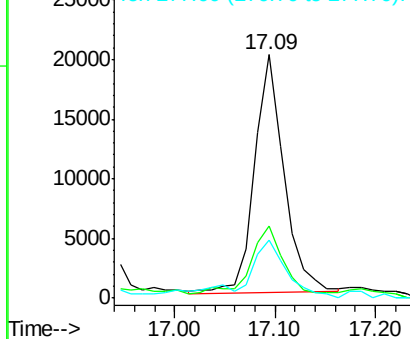


Abundance

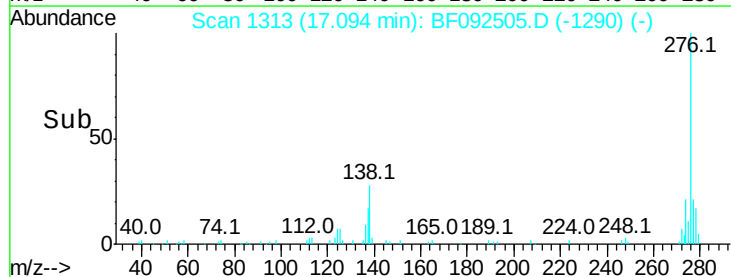
Ion 276.00 (275.70 to 276.70): E

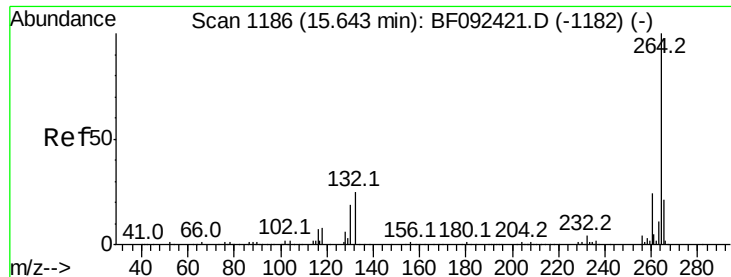
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



Time-->

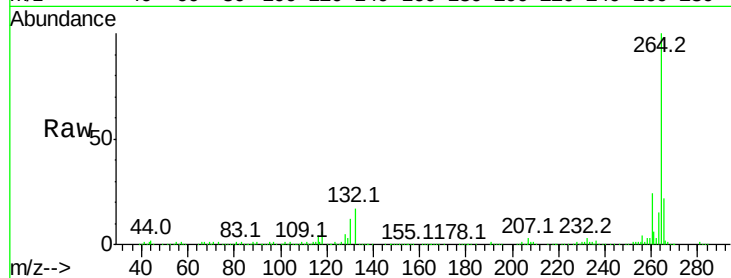




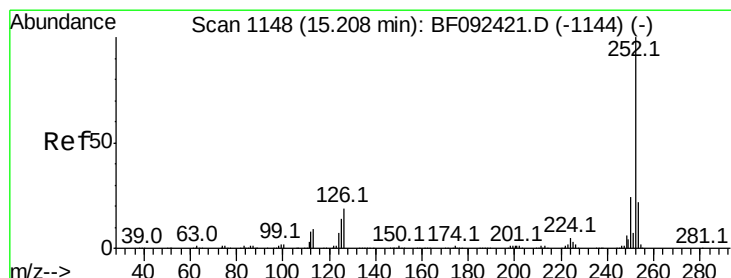
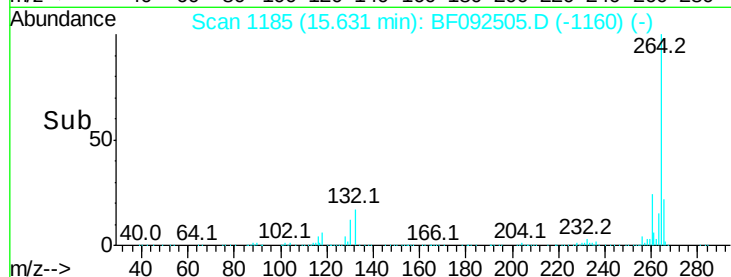
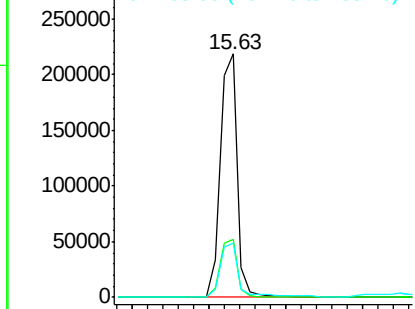
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.63 min Scan# 1185
Delta R.T. -0.01 min
Lab File: BF092505.D
Acq: 26 Jan 2017 4:22

Instrument :
BNA_F
ClientSampleID :
P14-11917

Tot Ion:264 Resp: 340034
Ion Ratio Lower Upper
264 100
260 23.9 19.2 28.8
265 22.1 17.4 26.0

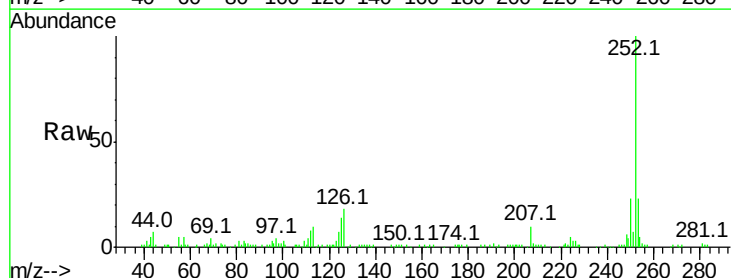


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

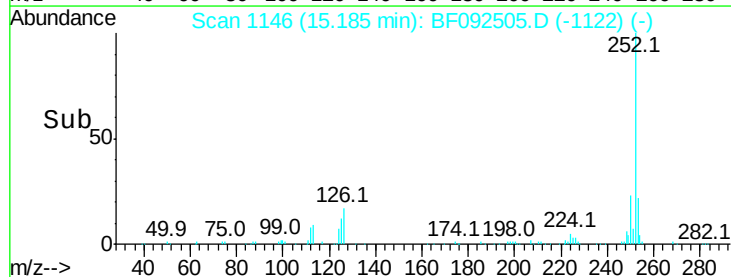
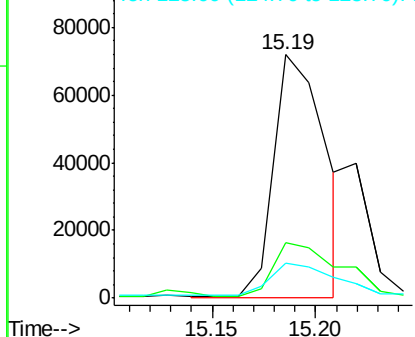


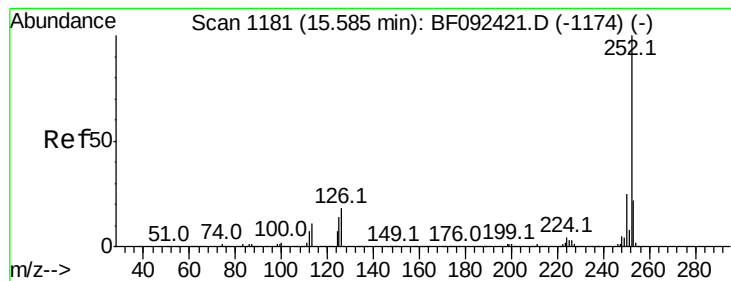
#87
Benzo(b)fluoranthene
Concen: 5.73 ng m
RT: 15.19 min Scan# 1146
Delta R.T. -0.02 min
Lab File: BF092505.D
Acq: 26 Jan 2017 4:22

Tgt Ion:252 Resp: 125184
Ion Ratio Lower Upper
252 100
253 22.6 18.2 27.4
125 14.1 9.8 14.6



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





#89

Benzo(a)pyrene

Concen: 4.07 ng

RT: 15.56 min Scan# 1179

Delta R.T. -0.02 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Instrument :

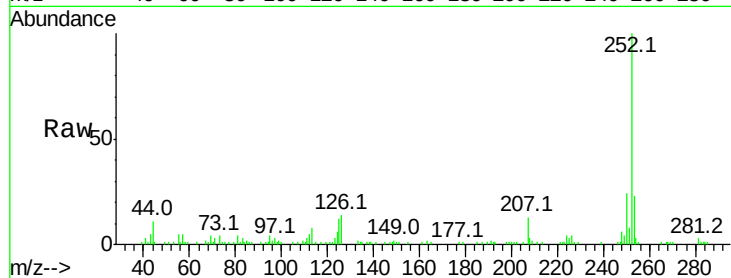
BNA_F

ClientSampleId :

P14-11917

Tot Ion:252 Resp: 75221

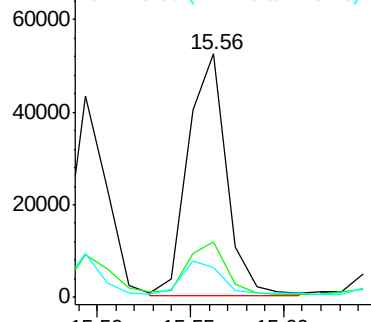
Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	12.4	10.0	15.0



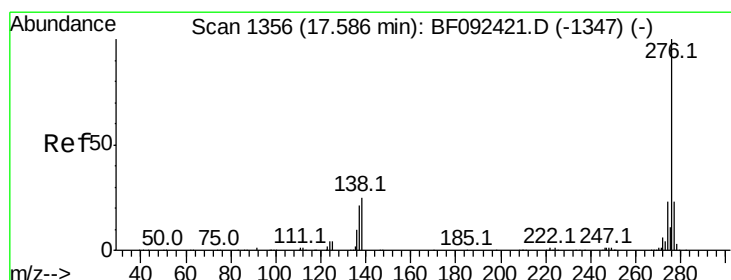
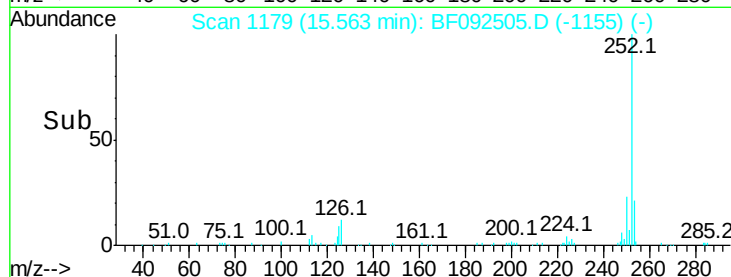
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#91

Benzo(g,h,i)perylene

Concen: 2.85 ng

RT: 17.54 min Scan# 1352

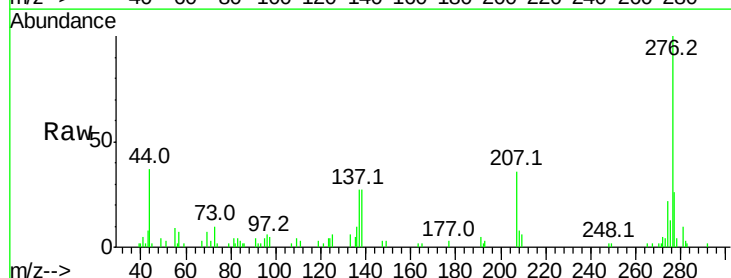
Delta R.T. -0.05 min

Lab File: BF092505.D

Acq: 26 Jan 2017 4:22

Tgt Ion:276 Resp: 42965

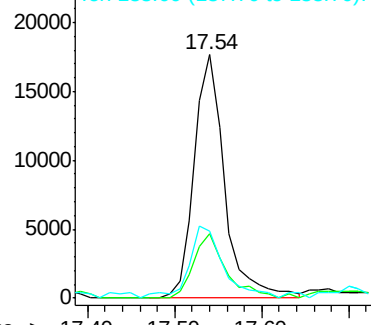
Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.2	28.8
138	27.3	16.0	24.0



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



Time-->

