

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092116\
 Data File : BF090176.D
 Acq On : 21 Sep 2016 23:09
 Operator : UM/SJ
 Sample : H4856-18
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP

Quant Time: Sep 22 07:51:03 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	6.50	152	128199	20.00	ng	-0.02
21) Naphthalene-d8	7.79	136	492114	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	229700	20.00	ng	-0.02
63) Phenanthrene-d10	11.00	188	337094	20.00	ng	-0.02
75) Chrysene-d12	13.62	240	278281	20.00	ng	-0.01
86) Perylene-d12	14.95	264	321943	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	959857	122.04	ng	0.00
7) Phenol-d6	6.17	99	1243767	128.05	ng	0.00
23) Nitrobenzene-d5	7.07	82	688193	81.07	ng	-0.02
41) 2,4,6-Tribromophenol	10.32	330	203906	103.47	ng	-0.02
44) 2-Fluorobiphenyl	8.88	172	1232157	105.31	ng	-0.01
78) Terphenyl-d14	12.59	244	866864	79.09	ng	-0.01

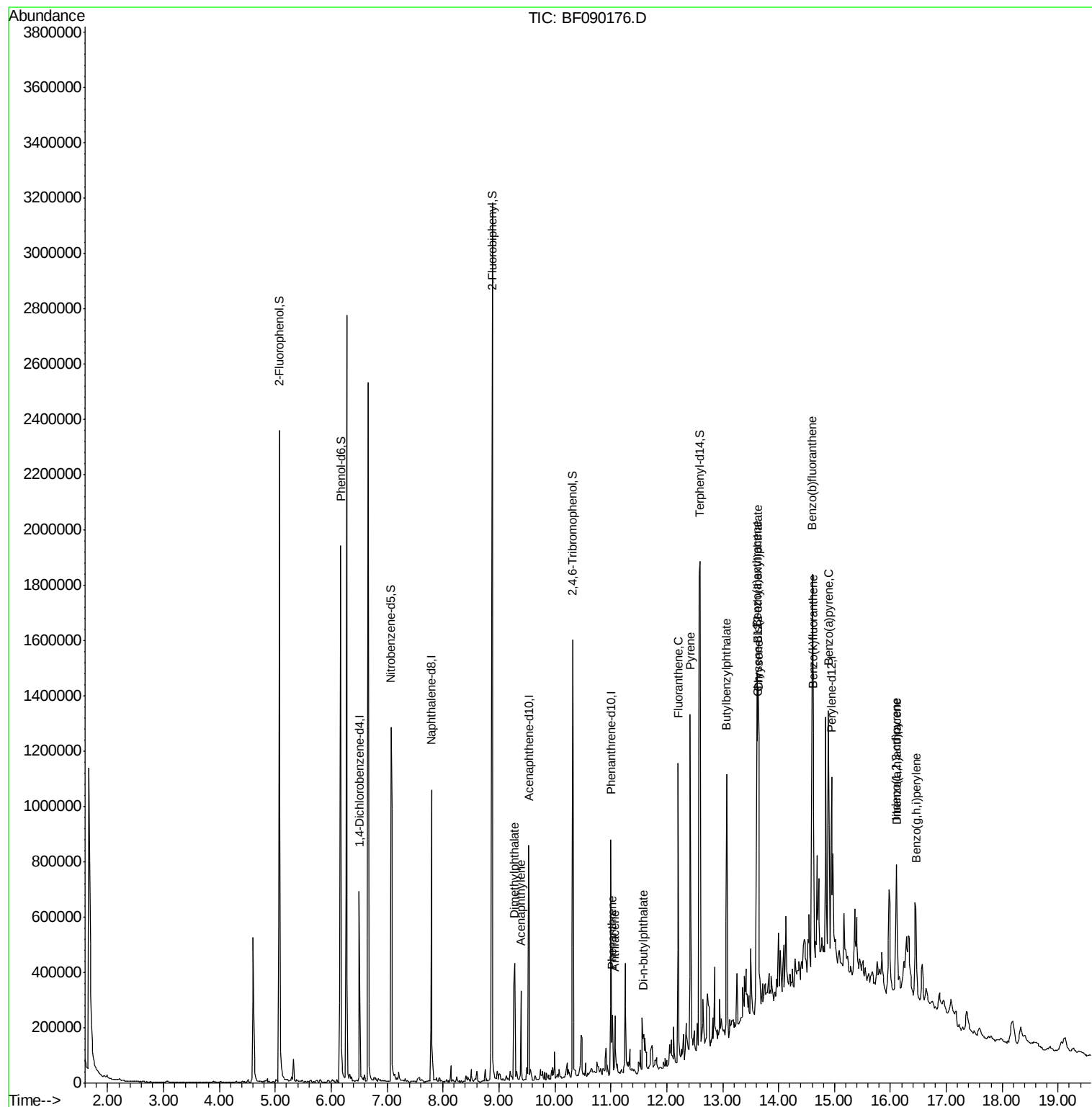
Target Compounds				Qvalue		
48) Acenaphthylene	9.39	152	135560	6.89	ng	98
49) Dimethylphthalate	9.28	163	270668	18.50	ng	99
70) Phenanthrene	11.03	178	82679	5.24	ng	97
71) Anthracene	11.07	178	97693	5.91	ng	98
73) Di-n-butylphthalate	11.59	149	56255	2.77	ng	98
74) Fluoranthene	12.21	202	475150	28.08	ng	94
77) Pyrene	12.42	202	520111	27.31	ng	97
79) Butylbenzylphthalate	13.07	149	239177	25.68	ng	95
80) Benzo(a)anthracene	13.61	228	422709m	28.23	ng	
82) Chrysene	13.65	228	330892m	22.69	ng	
83) Bis(2-ethylhexyl)phthalate	13.63	149	240049	20.14	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.10	276	349190m	29.61	ng	
87) Benzo(b)fluoranthene	14.61	252	741127m	41.57	ng	
88) Benzo(k)fluoranthene	14.62	252	211738m	12.66	ng	
89) Benzo(a)pyrene	14.89	252	427205	25.47	ng	# 89
90) Dibenzo(a,h)anthracene	16.11	278	73832m	5.64	ng	
91) Benzo(a,h,i)perylene	16.46	276	278054	21.71	ng	# 94

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

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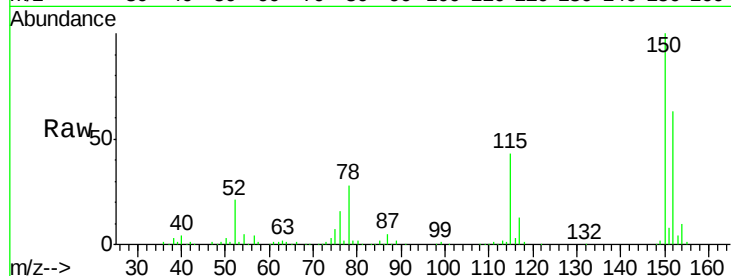


#1

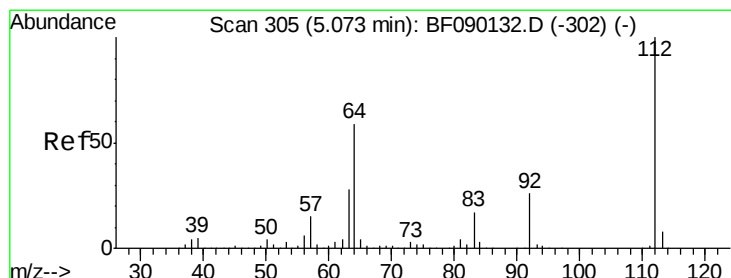
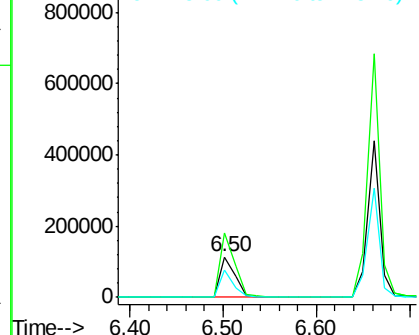
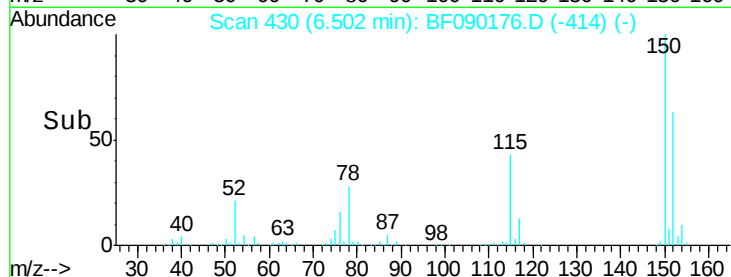
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.50 min Scan# 430
Delta R.T. -0.02 min
Lab File: BF090176.D
Acq: 21 Sep 2016 23:09

Instrument :
BNA_F
ClientSampled :
DUP

Tot Ion:152 Resp: 128199
Ion Ratio Lower Upper
152 100
150 159.2 128.9 193.3
115 67.7 55.5 83.3



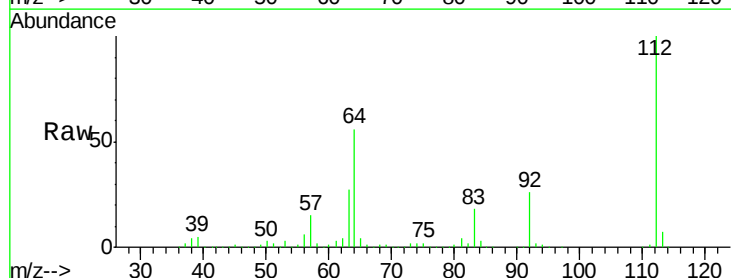
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



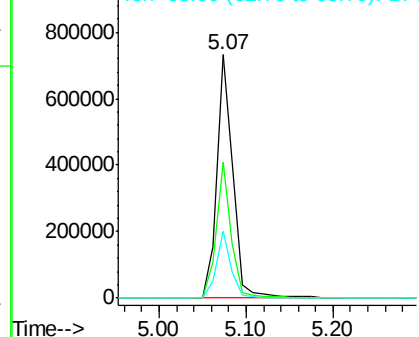
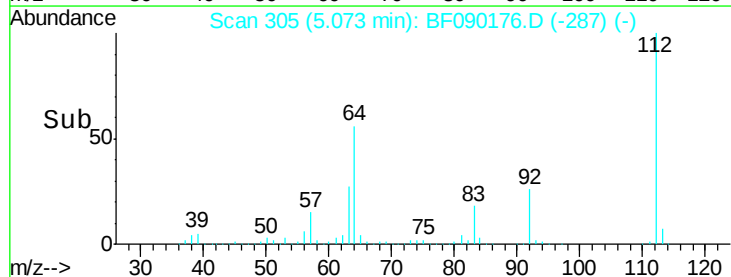
#5

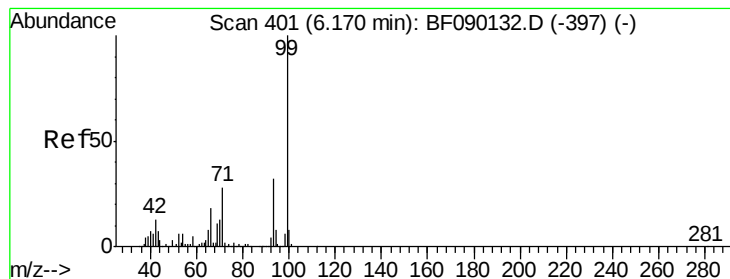
2-Fluorophenol
Concen: 122.04 ng
RT: 5.07 min Scan# 305
Delta R.T. 0.00 min
Lab File: BF090176.D
Acq: 21 Sep 2016 23:09

Tgt Ion:112 Resp: 959857
Ion Ratio Lower Upper
112 100
64 55.7 39.8 59.6
63 27.3 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: 128.05 ng

RT: 6.17 min Scan# 401

Delta R.T. 0.00 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

Instrument :

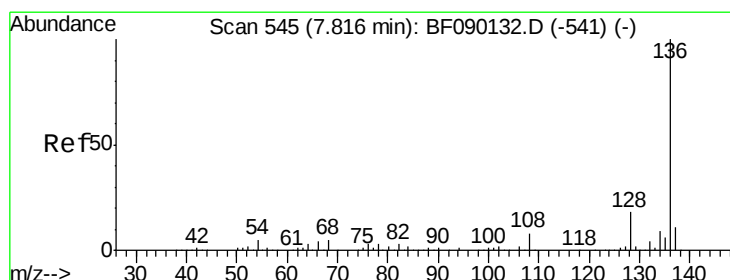
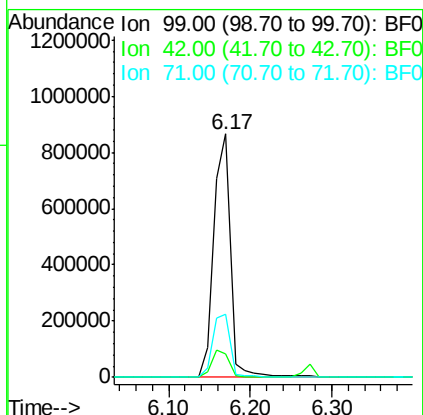
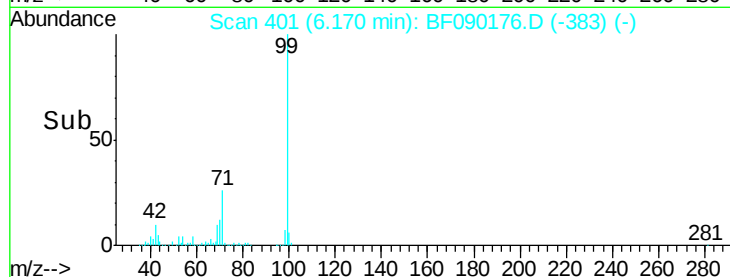
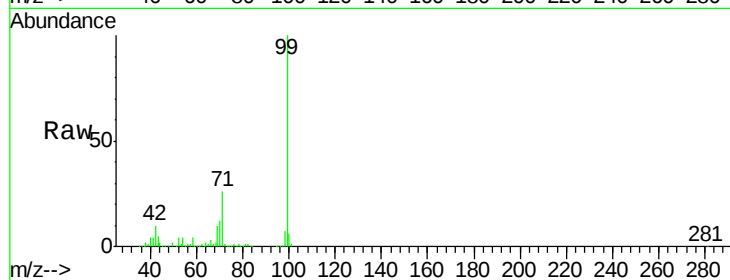
BNA_F

ClientSampled :

DUP

Tot Ion: 99 Resp: 1243767

Ion	Ratio	Lower	Upper
99	100		
42	9.8	10.6	15.8#
71	25.7	23.0	34.6



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.79 min Scan# 543

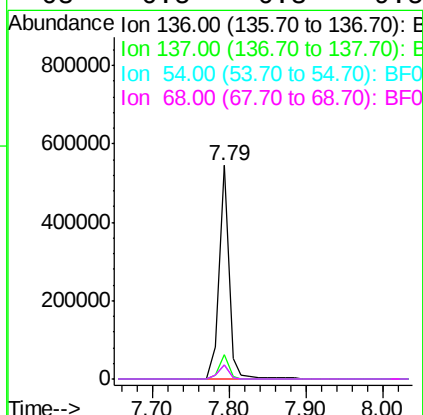
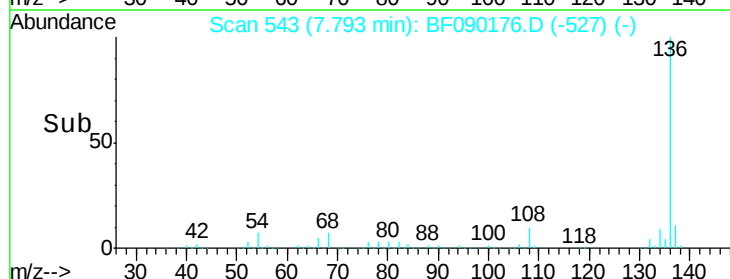
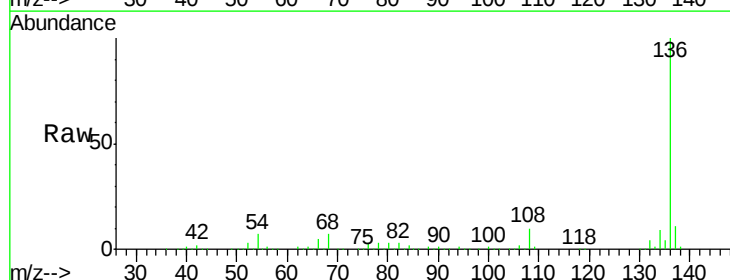
Delta R.T. -0.02 min

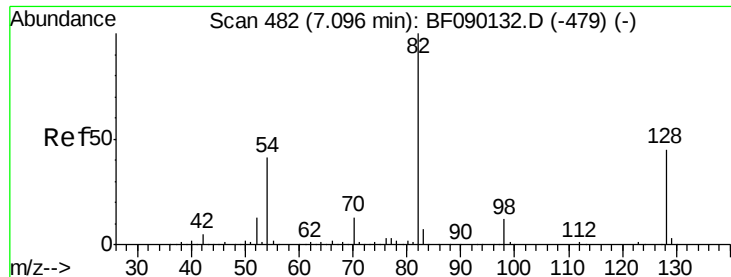
Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

Tgt Ion: 136 Resp: 492114

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	6.6	6.4	9.6
68	6.5	6.3	9.5

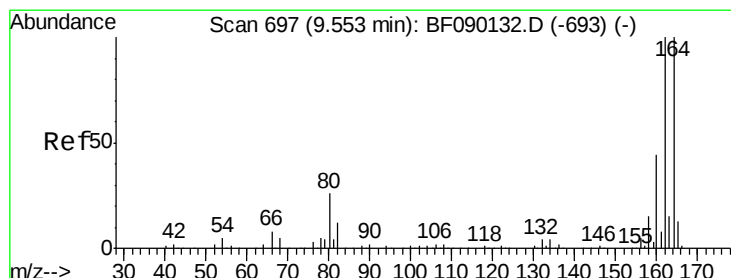
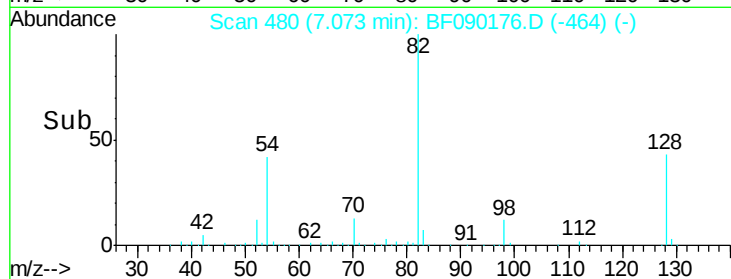
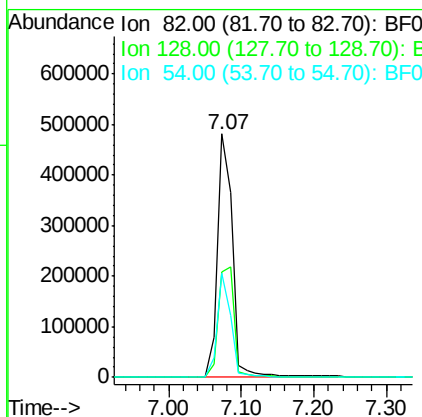
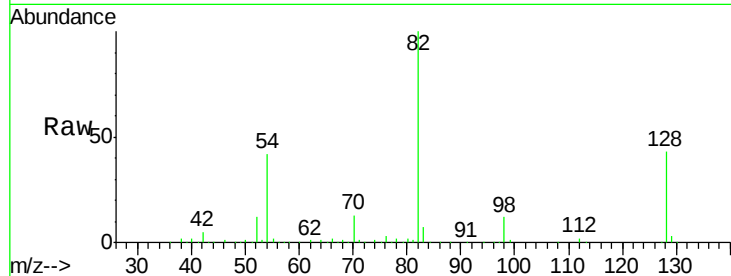




#23
 Nitrobenzene-d5
 Concen: 81.07 ng
 RT: 7.07 min Scan# 480
 Delta R.T. -0.02 min
 Lab File: BF090176.D
 Acq: 21 Sep 2016 23:09

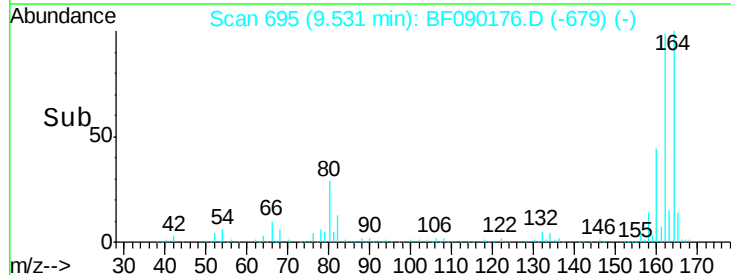
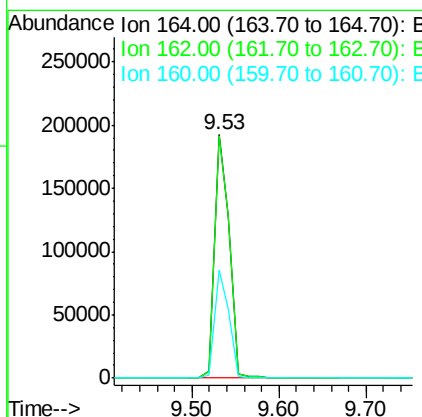
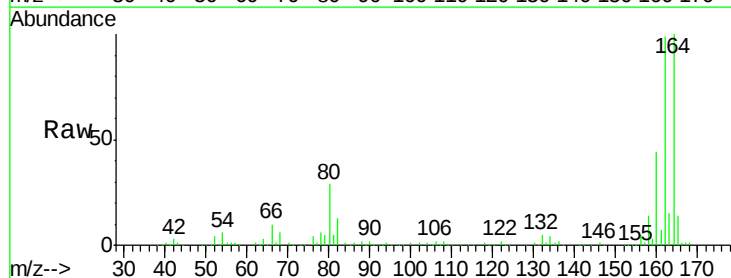
Instrument :
 BNA_F
 ClientSampleId :
 DUP

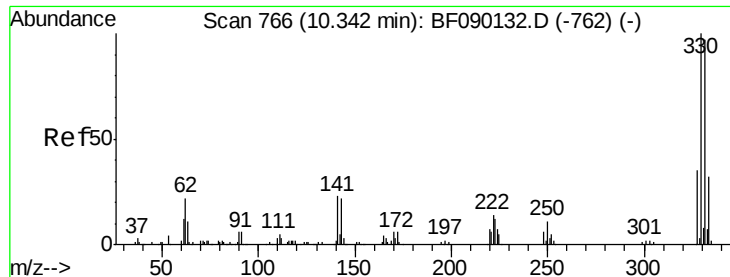
Tot Ion	82	Resp	688193
Ion	Ratio	Lower	Upper
82	100		
128	43.1	37.5	56.3
54	42.5	31.9	47.9



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 695
 Delta R.T. -0.02 min
 Lab File: BF090176.D
 Acq: 21 Sep 2016 23:09

Tgt Ion	164	Resp	229700
Ion	Ratio	Lower	Upper
164	100		
162	99.4	81.4	122.2
160	44.3	36.6	54.8

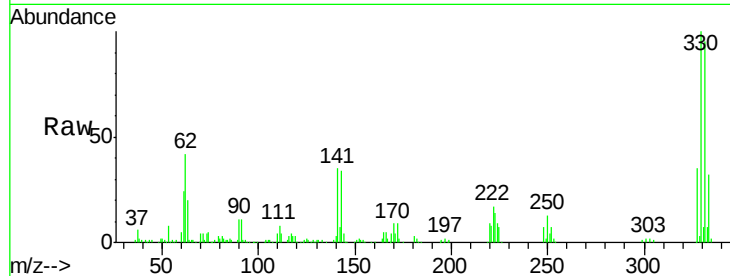




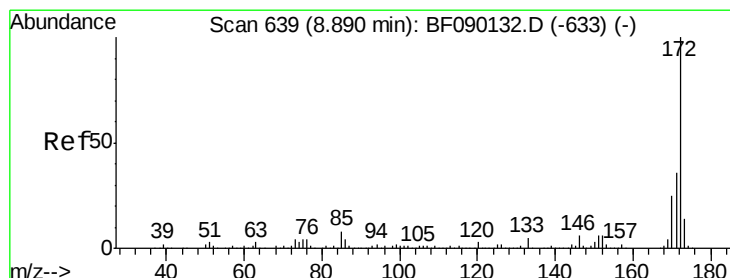
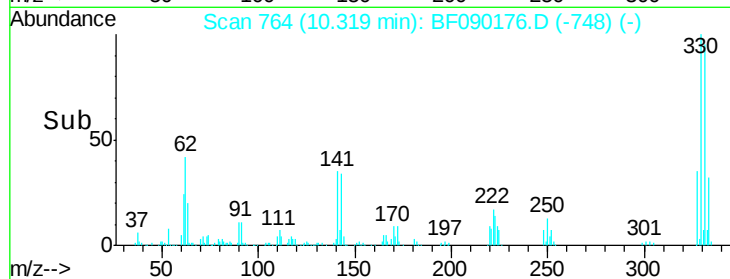
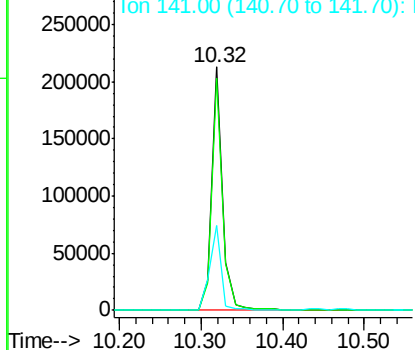
#41
 2,4,6-Tribromophenol
 Concen: 103.47 ng
 RT: 10.32 min Scan# 764
 Delta R.T. -0.02 min
 Lab File: BF090176.D
 Acq: 21 Sep 2016 23:09

Instrument :
 BNA_F
 ClientSampled :
 DUP

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	78.1	117.1
141	36.9	23.9	35.9#

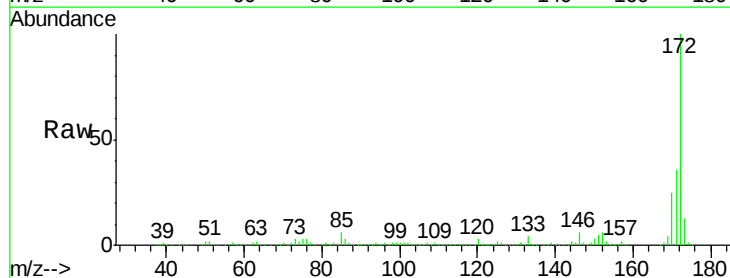


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

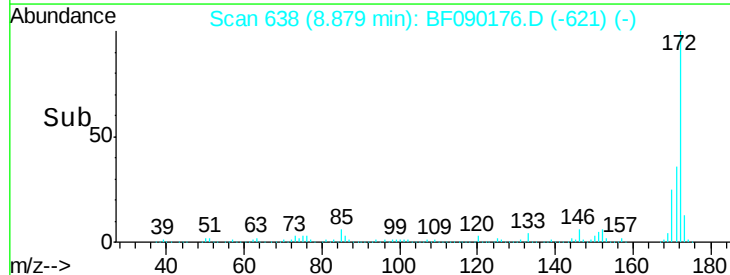
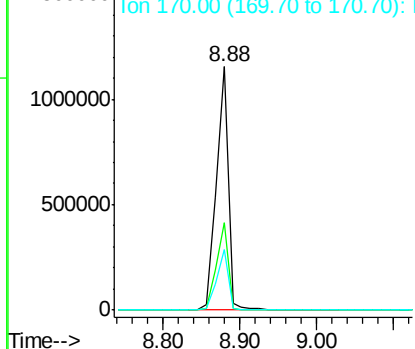


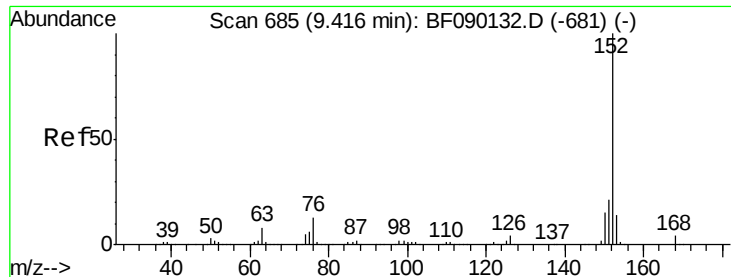
#44
 2-Fluorobiphenyl
 Concen: 105.31 ng
 RT: 8.88 min Scan# 638
 Delta R.T. -0.01 min
 Lab File: BF090176.D
 Acq: 21 Sep 2016 23:09

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.2	43.8
170	24.7	19.8	29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 6.89 ng

RT: 9.39 min Scan# 683

Delta R.T. -0.02 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

Instrument :

BNA_F

ClientSampleId :

DUP

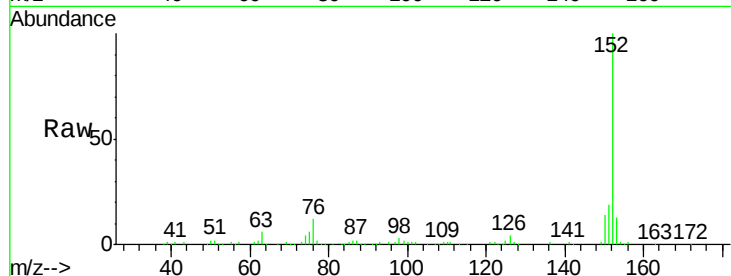
Tot Ion:152 Resp: 135560

Ion Ratio Lower Upper

152 100

151 19.2 16.5 24.7

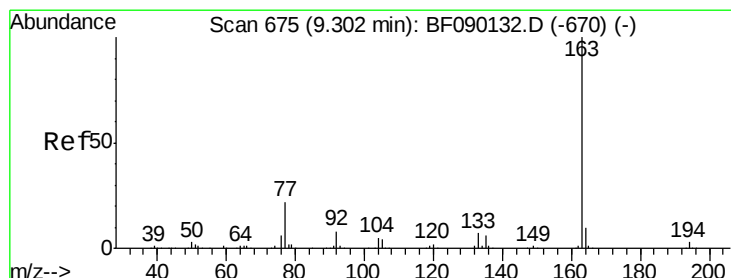
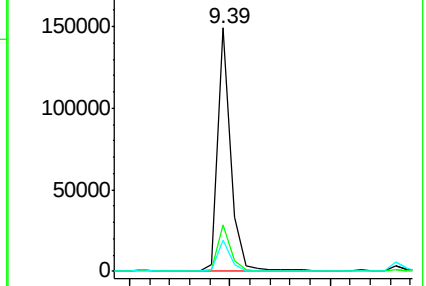
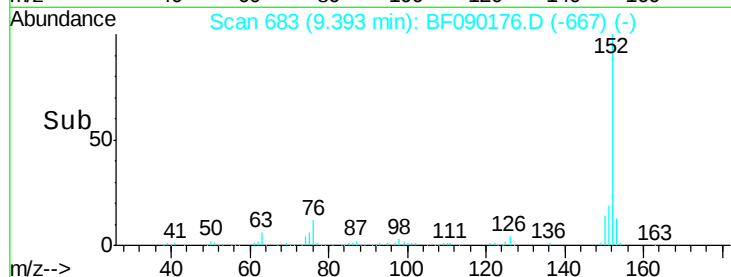
153 13.0 10.6 15.8



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



#49

Dimethylphthalate

Concen: 18.50 ng

RT: 9.28 min Scan# 673

Delta R.T. -0.02 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

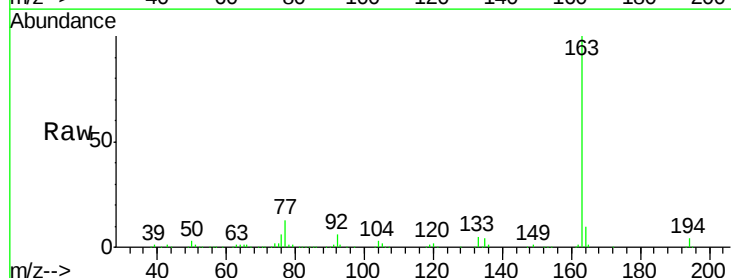
Tgt Ion:163 Resp: 270668

Ion Ratio Lower Upper

163 100

194 3.7 2.8 4.2

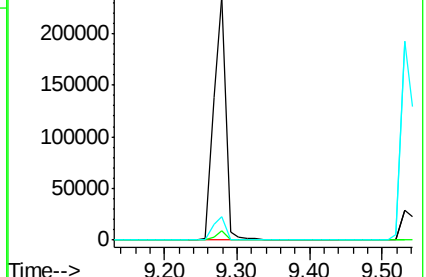
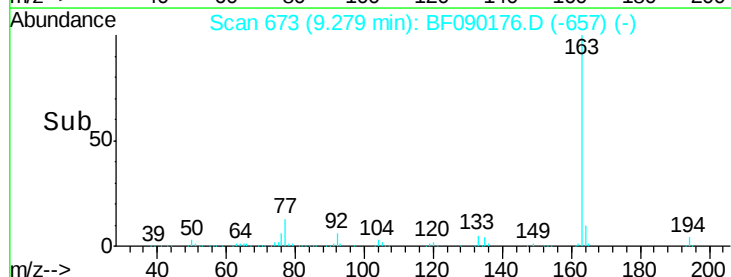
164 9.6 8.1 12.1

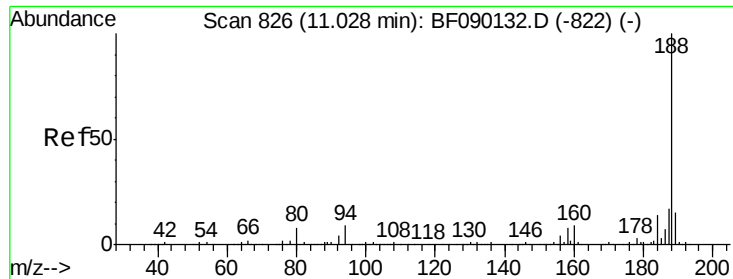


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

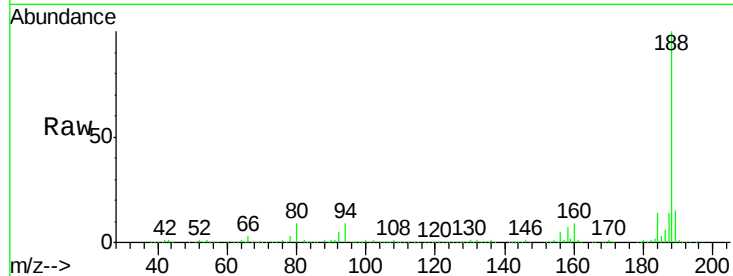




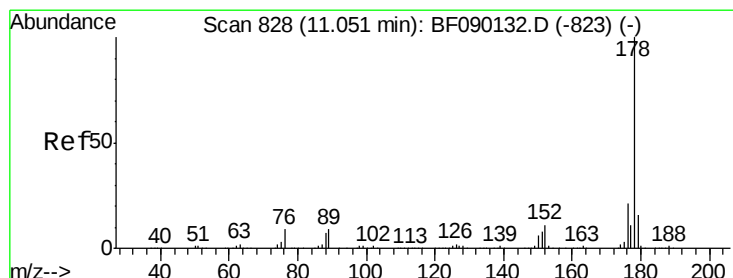
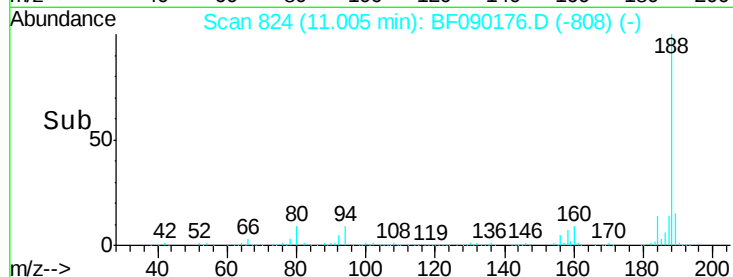
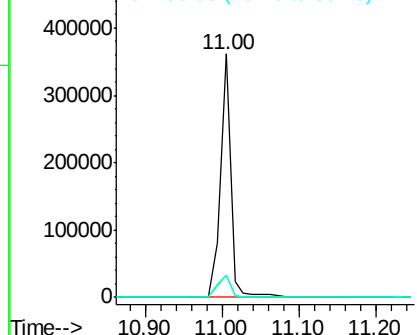
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.00 min Scan# 824
Delta R.T. -0.02 min
Lab File: BF090176.D
Acq: 21 Sep 2016 23:09

Instrument :
BNA_F
ClientSampled :
DUP

Tot Ion:188 Resp: 337094
Ion Ratio Lower Upper
188 100
94 9.0 10.5 15.7#
80 9.2 11.2 16.8#

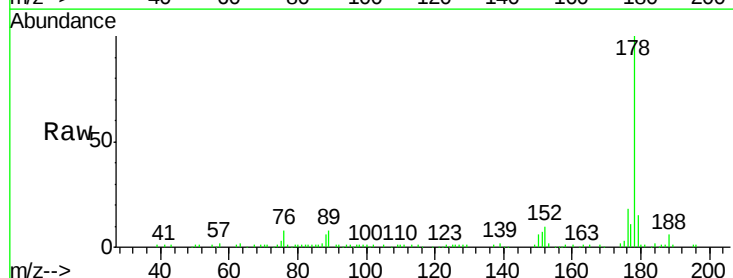


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

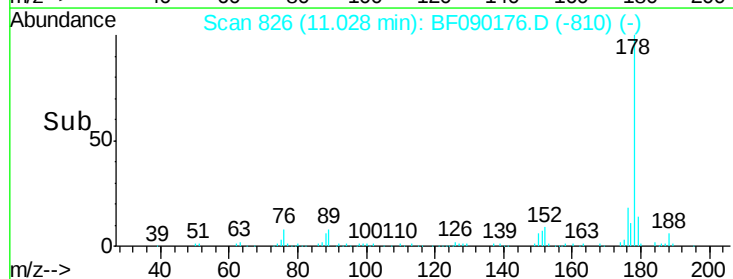
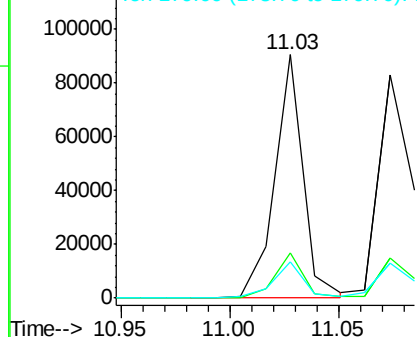


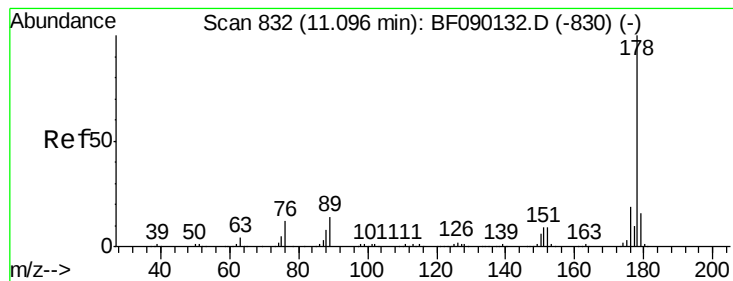
#70
Phenanthrene
Concen: 5.24 ng
RT: 11.03 min Scan# 826
Delta R.T. -0.02 min
Lab File: BF090176.D
Acq: 21 Sep 2016 23:09

Tgt Ion:178 Resp: 82679
Ion Ratio Lower Upper
178 100
176 18.3 15.9 23.9
179 14.9 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: 5.91 ng

RT: 11.07 min Scan# 830

Delta R.T. -0.02 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

Instrument :

BNA_F

ClientSampleId :

DUP

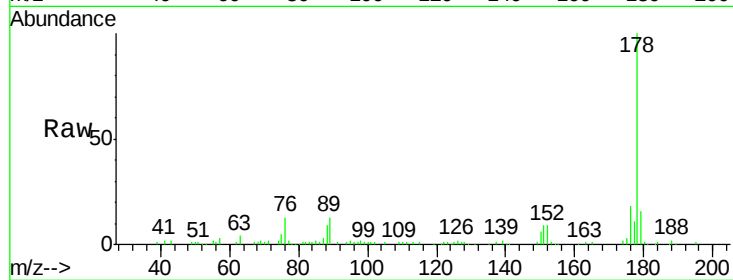
Tot Ion:178 Resp: 97693

Ion Ratio Lower Upper

178 100

176 18.2 15.8 23.6

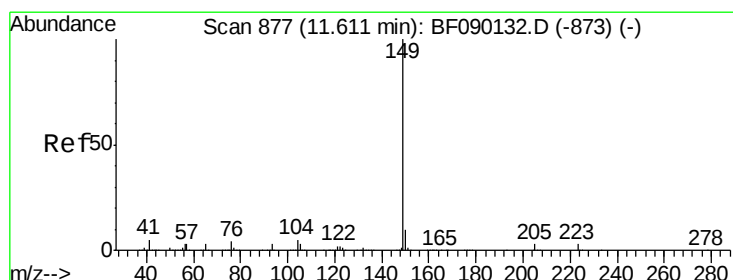
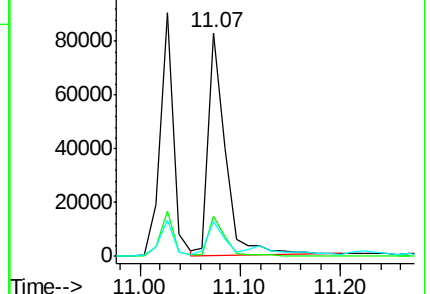
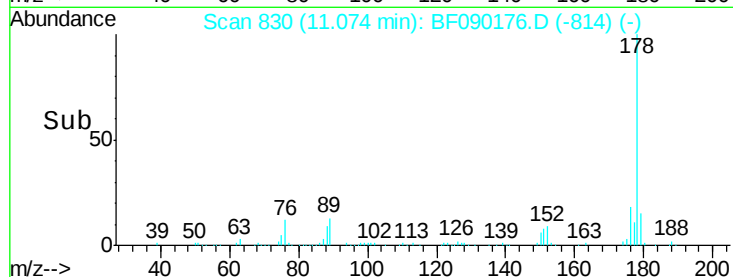
179 15.7 12.6 19.0



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



#73

Di-n-butylphthalate

Concen: 2.77 ng

RT: 11.59 min Scan# 875

Delta R.T. -0.02 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

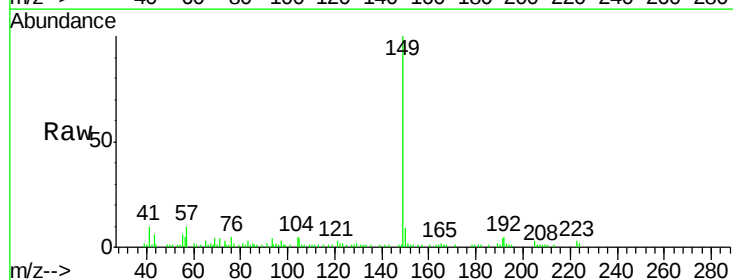
Tgt Ion:149 Resp: 56255

Ion Ratio Lower Upper

149 100

150 9.0 7.8 11.8

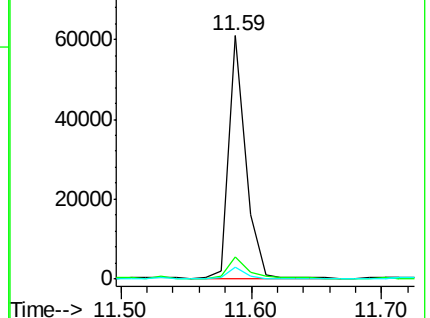
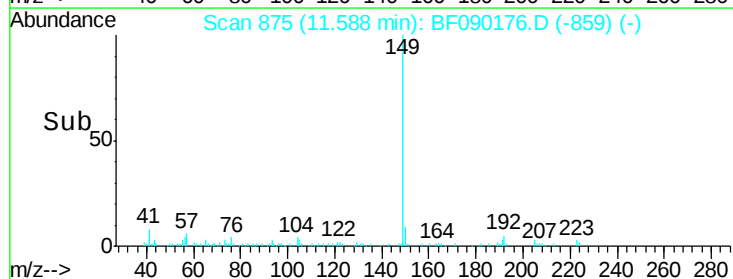
104 5.1 3.9 5.9

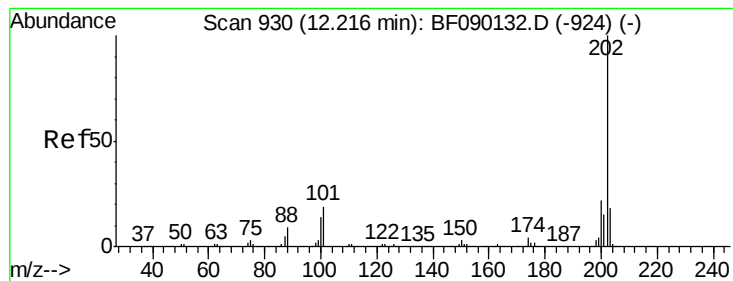


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 28.08 ng

RT: 12.21 min Scan# 929

Delta R.T. -0.01 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

Instrument :

BNA_F

ClientSampleId :

DUP

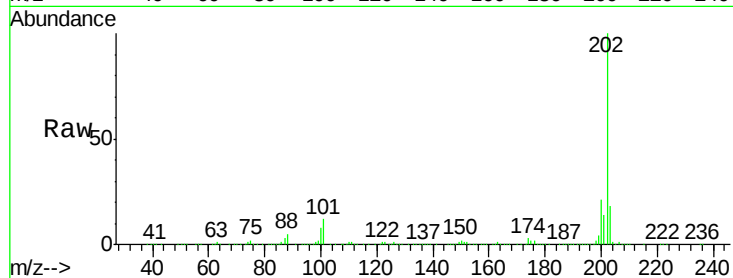
Tot Ion:202 Resp: 475150

Ion Ratio Lower Upper

202 100

101 11.6 0.0 36.1

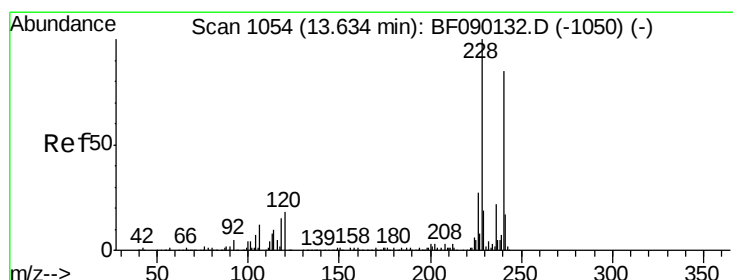
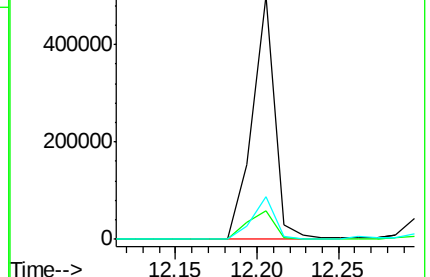
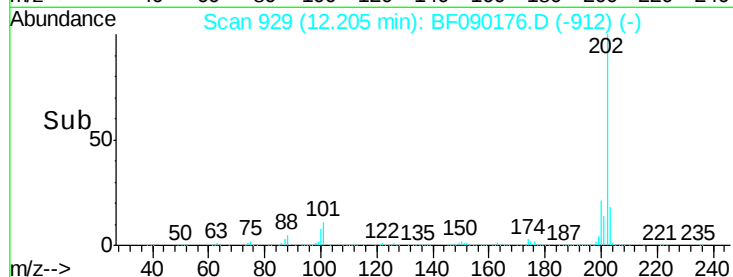
203 17.6 0.0 38.2



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: 13.62 min Scan# 1053

Delta R.T. -0.01 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

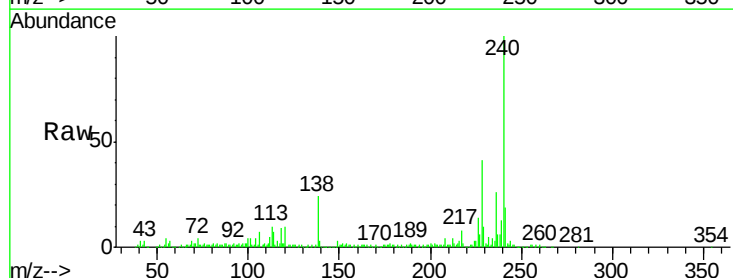
Tgt Ion:240 Resp: 278281

Ion Ratio Lower Upper

240 100

120 9.8 10.6 16.0#

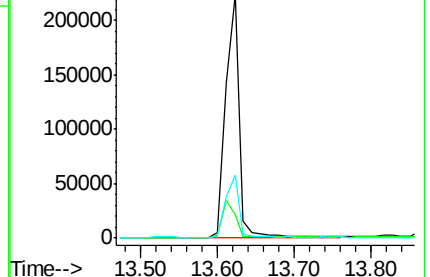
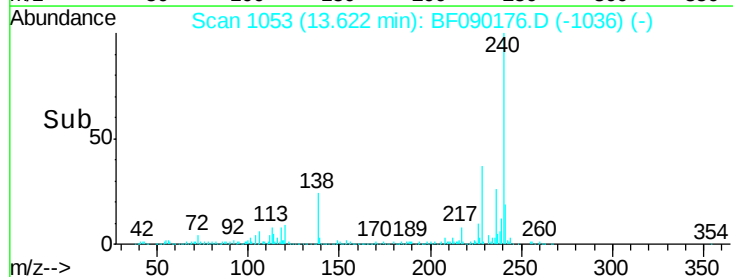
236 25.8 21.6 32.4

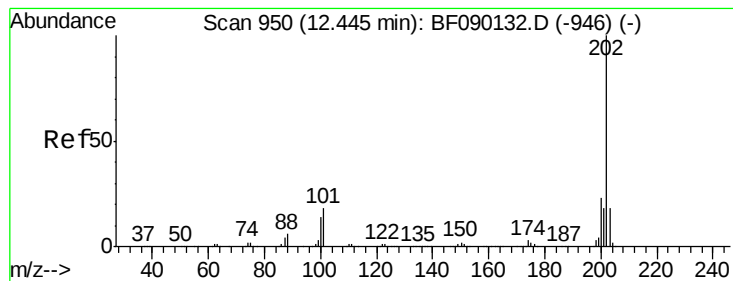


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 27.31 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.02 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

Instrument :

BNA_F

ClientSampleId :

DUP

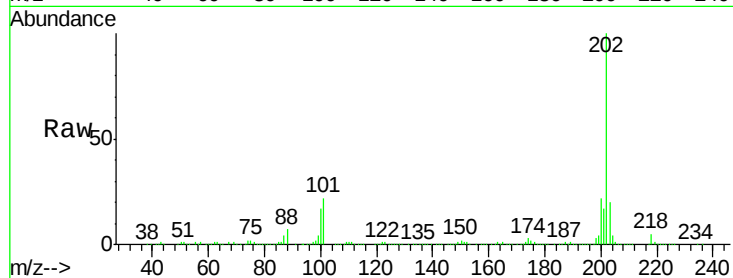
Tot Ion:202 Resp: 520111

Ion Ratio Lower Upper

202 100

200 22.0 17.9 26.9

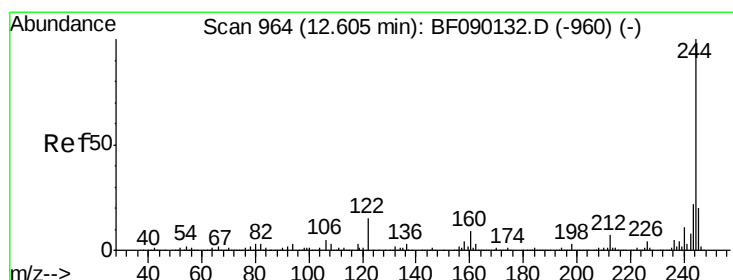
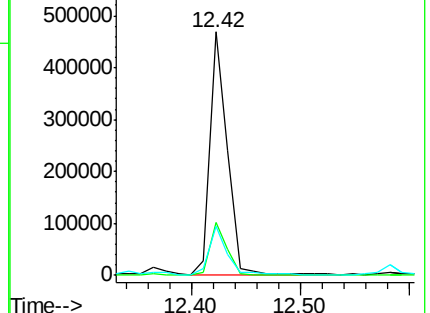
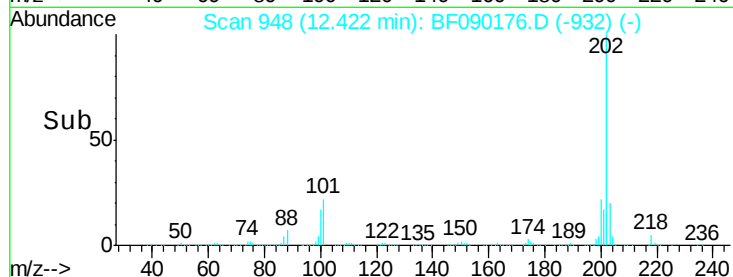
203 20.2 14.2 21.4



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: 79.09 ng

RT: 12.59 min Scan# 963

Delta R.T. -0.01 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

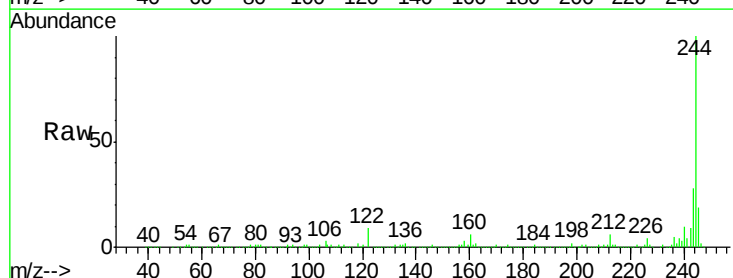
Tgt Ion:244 Resp: 866864

Ion Ratio Lower Upper

244 100

212 6.3 5.8 8.8

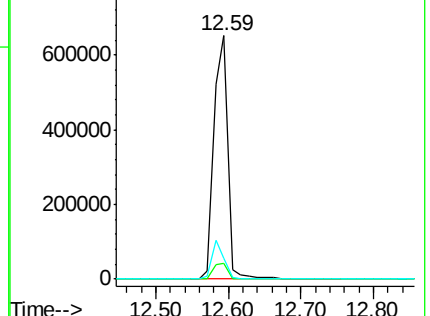
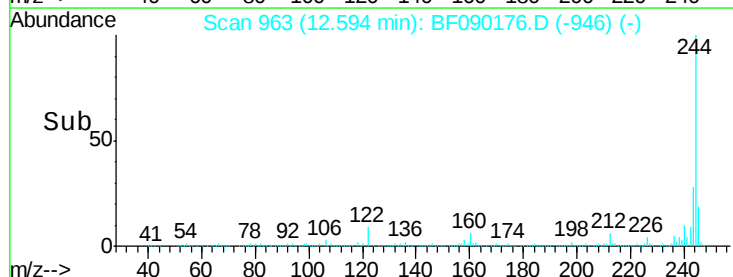
122 8.6 9.4 14.0#

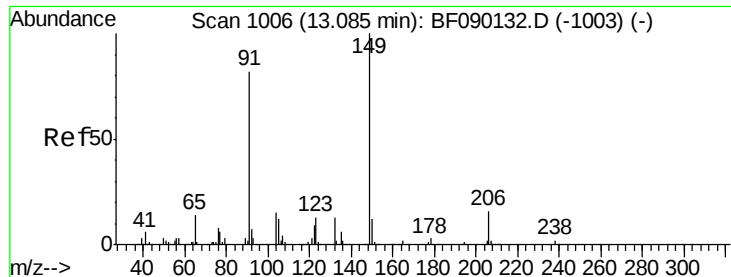


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

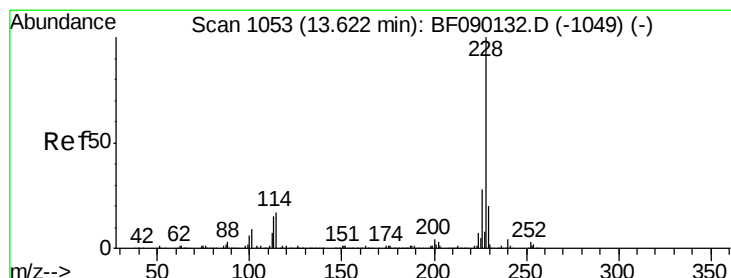
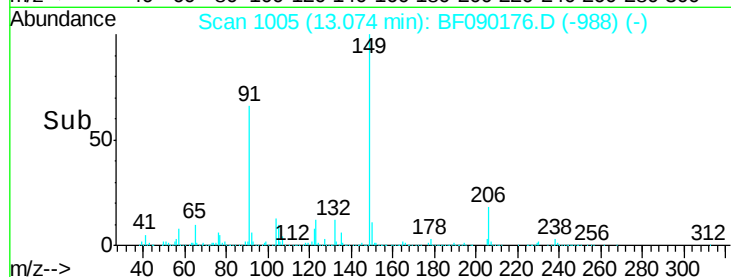
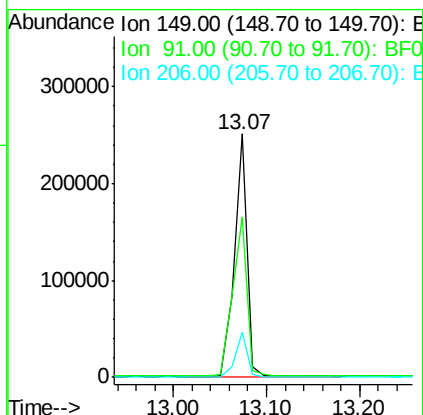
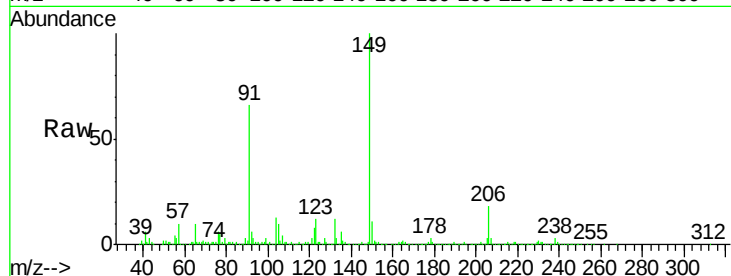




#79
Butylbenzylphthalate
Concen: 25.68 ng
RT: 13.07 min Scan# 1005
Delta R.T. -0.01 min
Lab File: BF090176.D
Acq: 21 Sep 2016 23:09

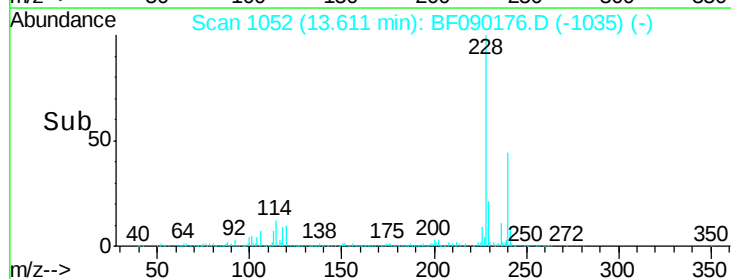
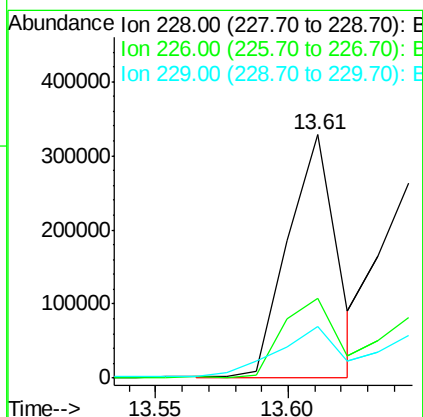
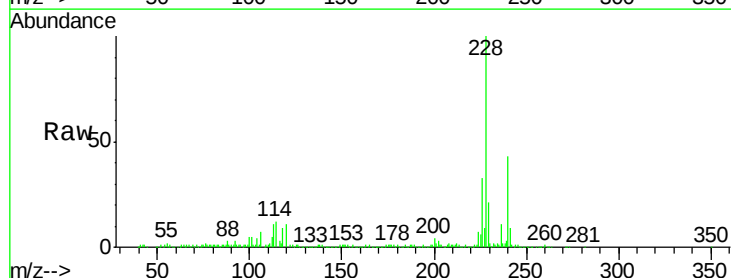
Instrument :
BNA_F
ClientSampleId :
DUP

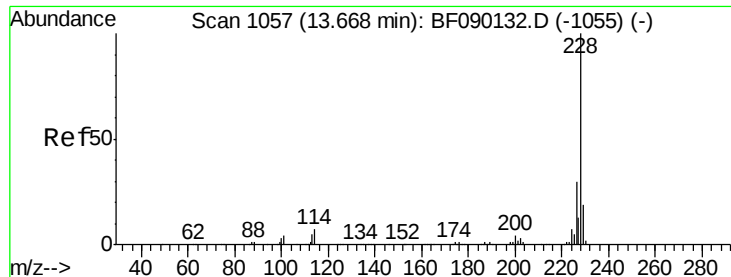
Tot Ion	Ratio	Lower	Upper
149	100		
91	66.1	49.8	74.6
206	18.4	16.3	24.5



#80
Benzo(a)anthracene
Concen: 28.23 ng m
RT: 13.61 min Scan# 1052
Delta R.T. -0.01 min
Lab File: BF090176.D
Acq: 21 Sep 2016 23:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.8	22.0	33.0
229	21.2	16.2	24.2





#82

Chrysene

Concen: 22.69 ng/mL

RT: 13.65 min Scan# 1055

Delta R.T. -0.02 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

Instrument :

BNA_F

ClientSampled :

DUP

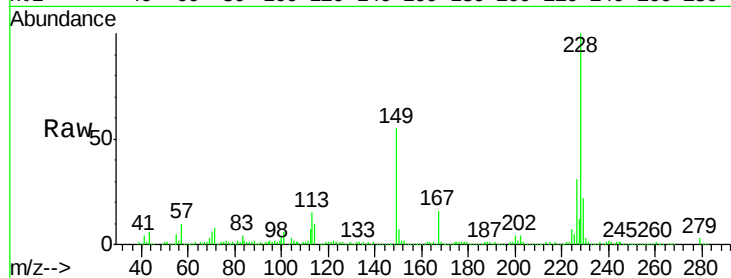
Tot Ion: 228 Resp: 330892

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

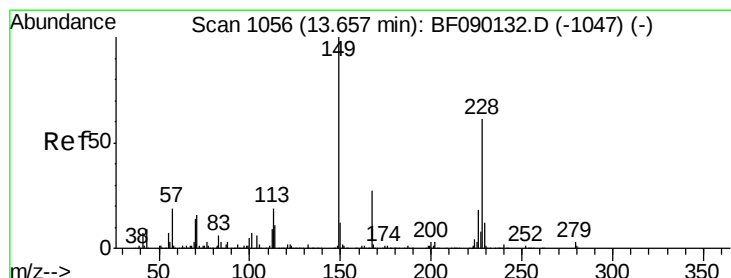
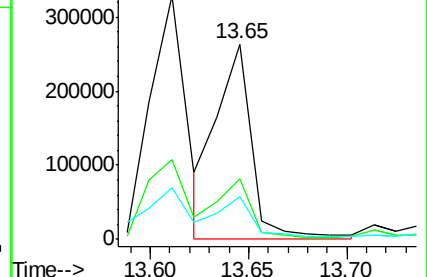
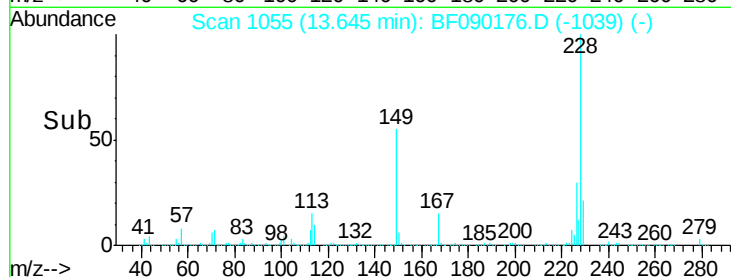
229 21.8 16.2 24.4



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 20.14 ng/mL

RT: 13.63 min Scan# 1054

Delta R.T. -0.02 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

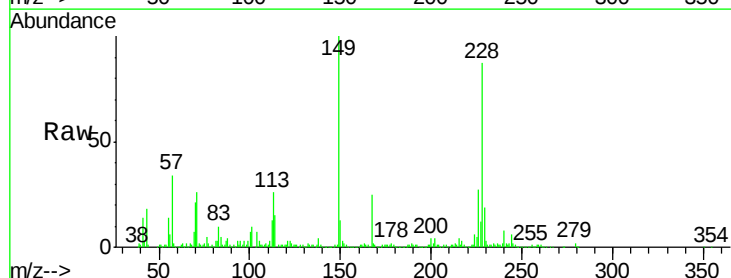
Tgt Ion: 149 Resp: 240049

Ion Ratio Lower Upper

149 100

167 24.6 21.2 31.8

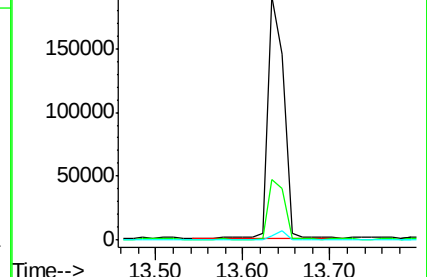
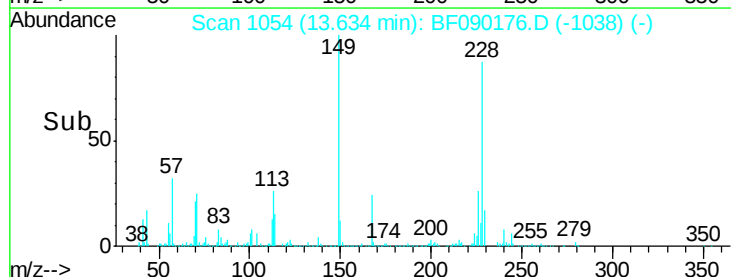
279 2.0 2.2 3.2#

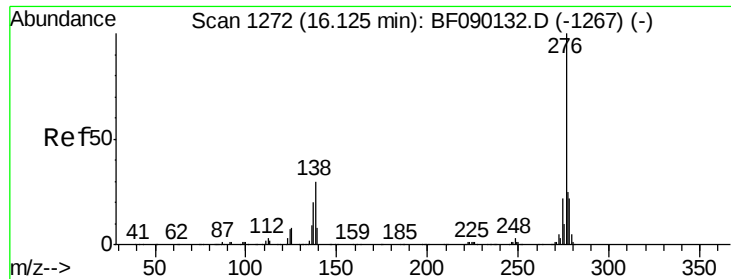


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 29.61 ng/mL

RT: 16.10 min Scan# 1270

Delta R.T. -0.02 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

Instrument :

BNA_F

ClientSampled :

DUP

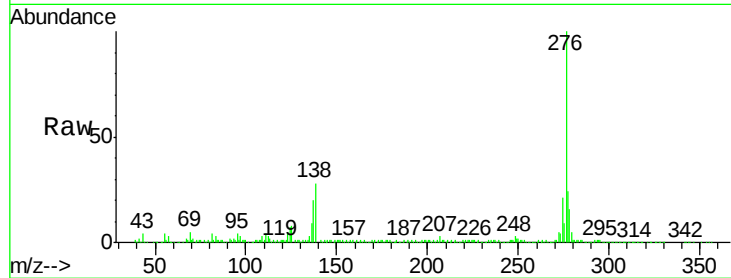
Tot Ion: 276 Resp: 349190

Ion Ratio Lower Upper

276 100

138 6.6 25.9 38.9#

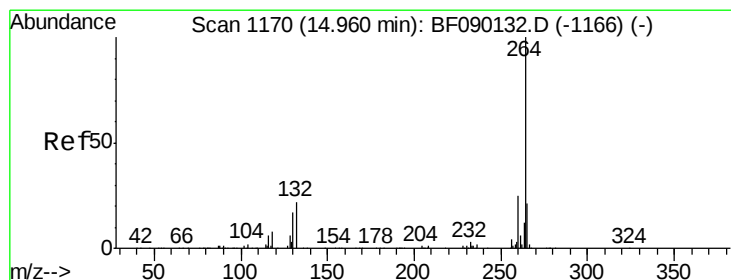
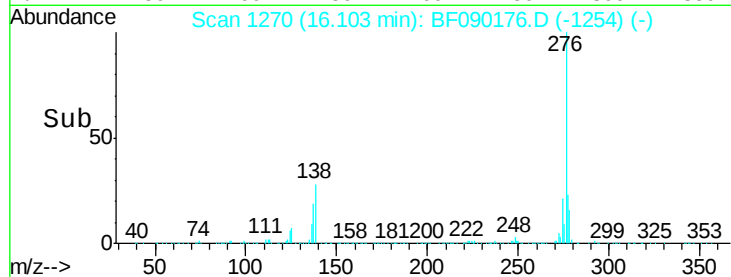
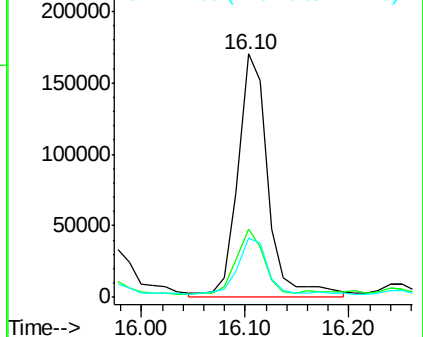
277 4.7 19.9 29.9#



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: 14.95 min Scan# 1169

Delta R.T. -0.01 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

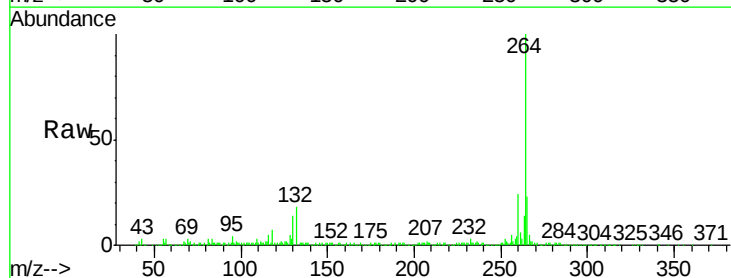
Tgt Ion: 264 Resp: 321943

Ion Ratio Lower Upper

264 100

260 24.1 19.5 29.3

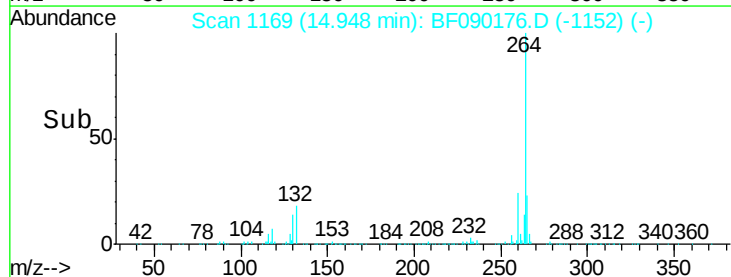
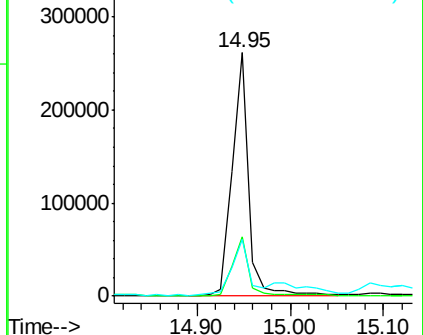
265 23.2 17.0 25.4

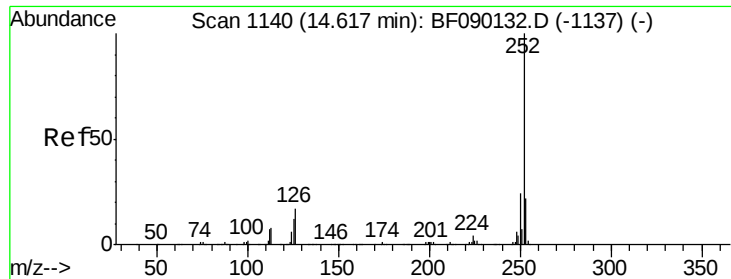


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

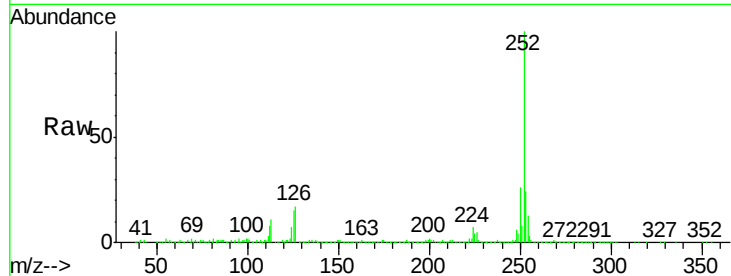




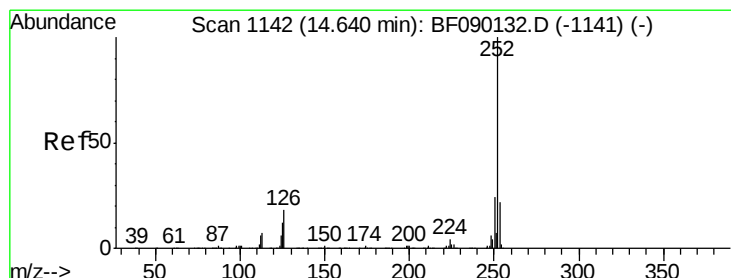
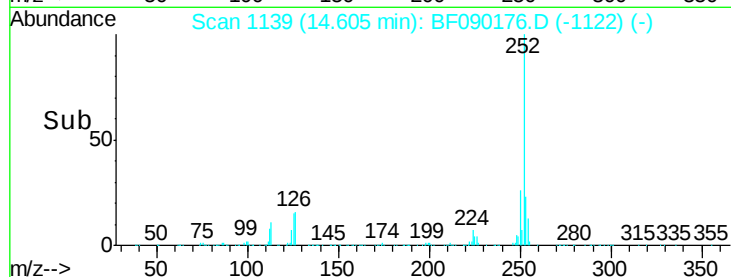
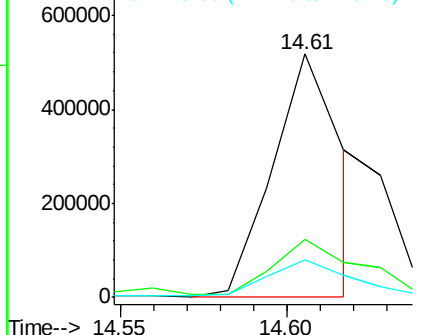
#87
Benzo(b)fluoranthene
Concen: 41.57 ng m
RT: 14.61 min Scan# 1139
Delta R.T. -0.01 min
Lab File: BF090176.D
Acq: 21 Sep 2016 23:09

Instrument :
BNA_F
ClientSampleId :
DUP

Tot Ion:252 Resp: 741127
Ion Ratio Lower Upper
252 100
253 23.6 17.9 26.9
125 15.3 12.7 19.1

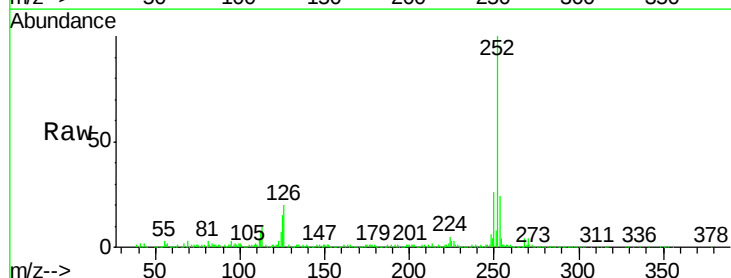


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

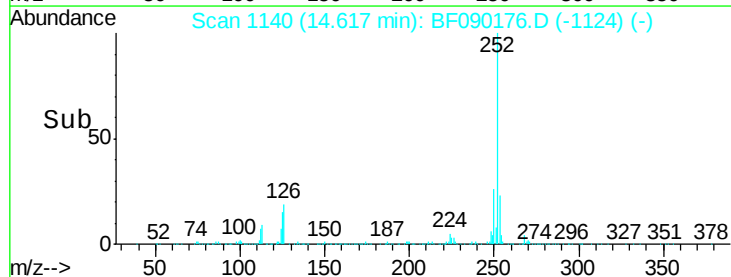
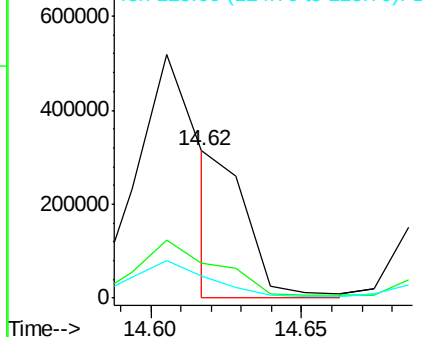


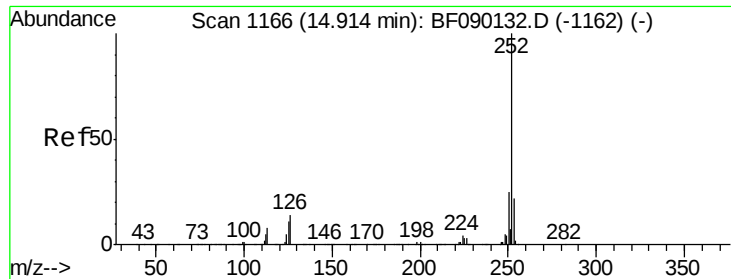
#88
Benzo(k)fluoranthene
Concen: 12.66 ng m
RT: 14.62 min Scan# 1140
Delta R.T. -0.02 min
Lab File: BF090176.D
Acq: 21 Sep 2016 23:09

Tgt Ion:252 Resp: 211738
Ion Ratio Lower Upper
252 100
253 23.7 17.8 26.8
125 15.3 7.8 11.6#



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

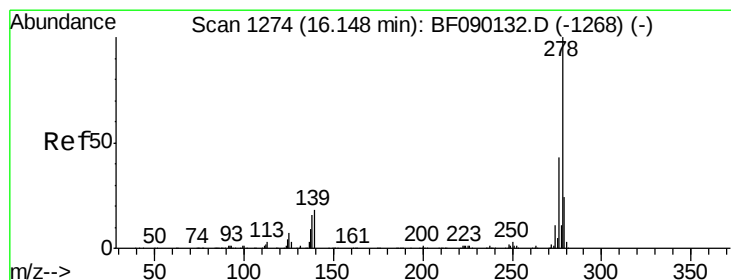
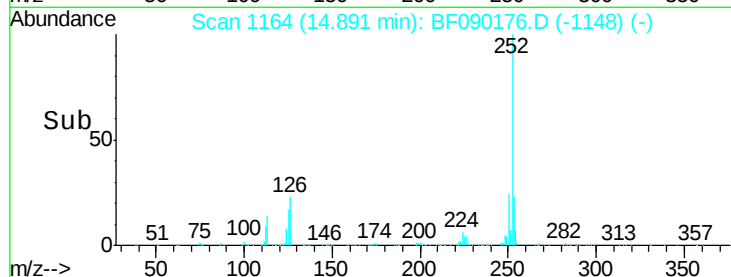
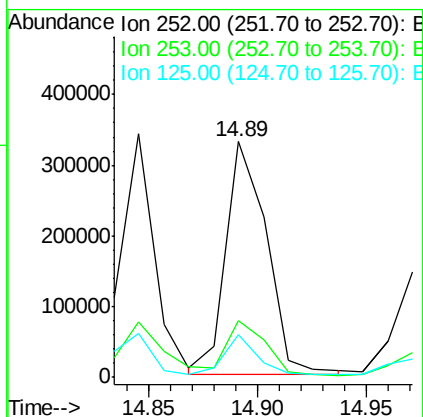
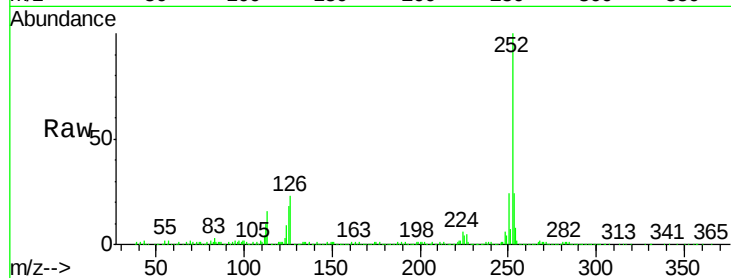




#89
Benzo(a)pyrene
Concen: 25.47 ng
RT: 14.89 min Scan# 1164
Delta R.T. -0.02 min
Lab File: BF090176.D
Acq: 21 Sep 2016 23:09

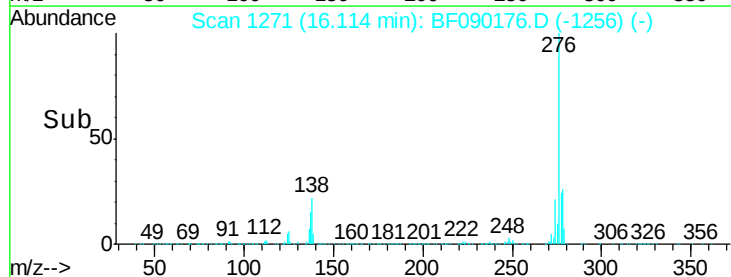
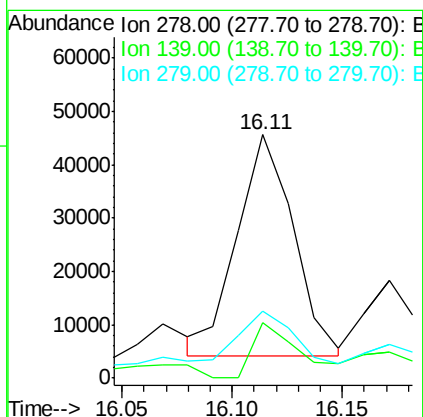
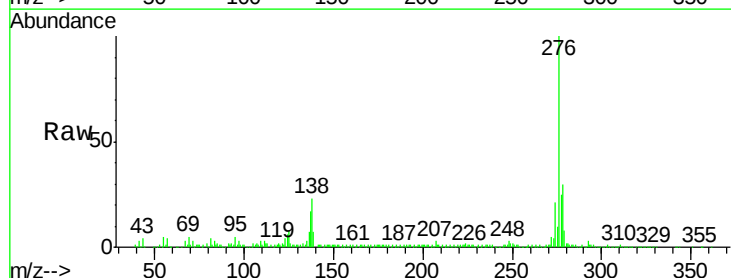
Instrument :
BNA_F
ClientSampleId :
DUP

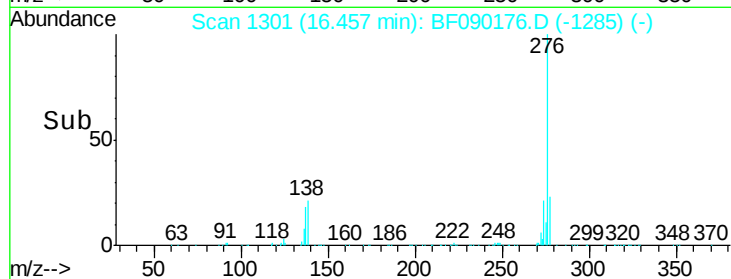
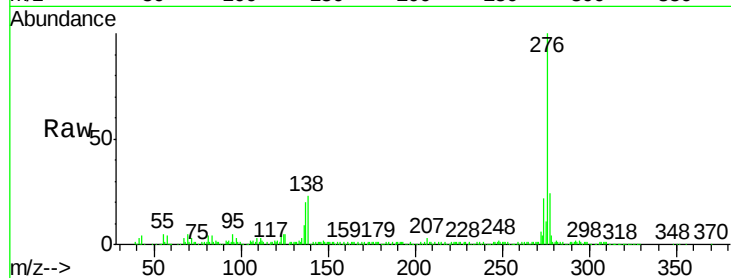
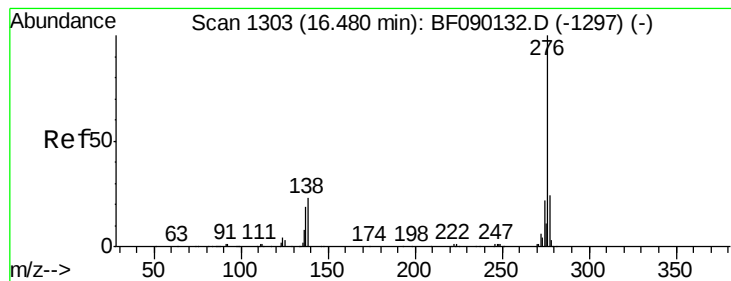
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.4	26.0
125	18.2	7.7	11.5#



#90
Dibenzo(a,h)anthracene
Concen: 5.64 ng m
RT: 16.11 min Scan# 1271
Delta R.T. -0.03 min
Lab File: BF090176.D
Acq: 21 Sep 2016 23:09

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.8	14.6	21.8#
279	27.6	18.8	28.2





#91

Benzo(a,h,i)perylene

Concen: 21.71 ng

RT: 16.46 min Scan# 1301

Delta R.T. -0.02 min

Lab File: BF090176.D

Acq: 21 Sep 2016 23:09

Instrument :

BNA_F

ClientSampleId :

DUP

Tot Ion: 276 Resp: 278054

Ion Ratio Lower Upper

276 100

277 23.8 18.9 28.3

138 23.1 23.3 34.9#

