

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092116\
 Data File : BF090173.D
 Acq On : 21 Sep 2016 21:43
 Operator : UM/SJ
 Sample : H4856-12
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-4

Quant Time: Sep 22 07:39:33 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

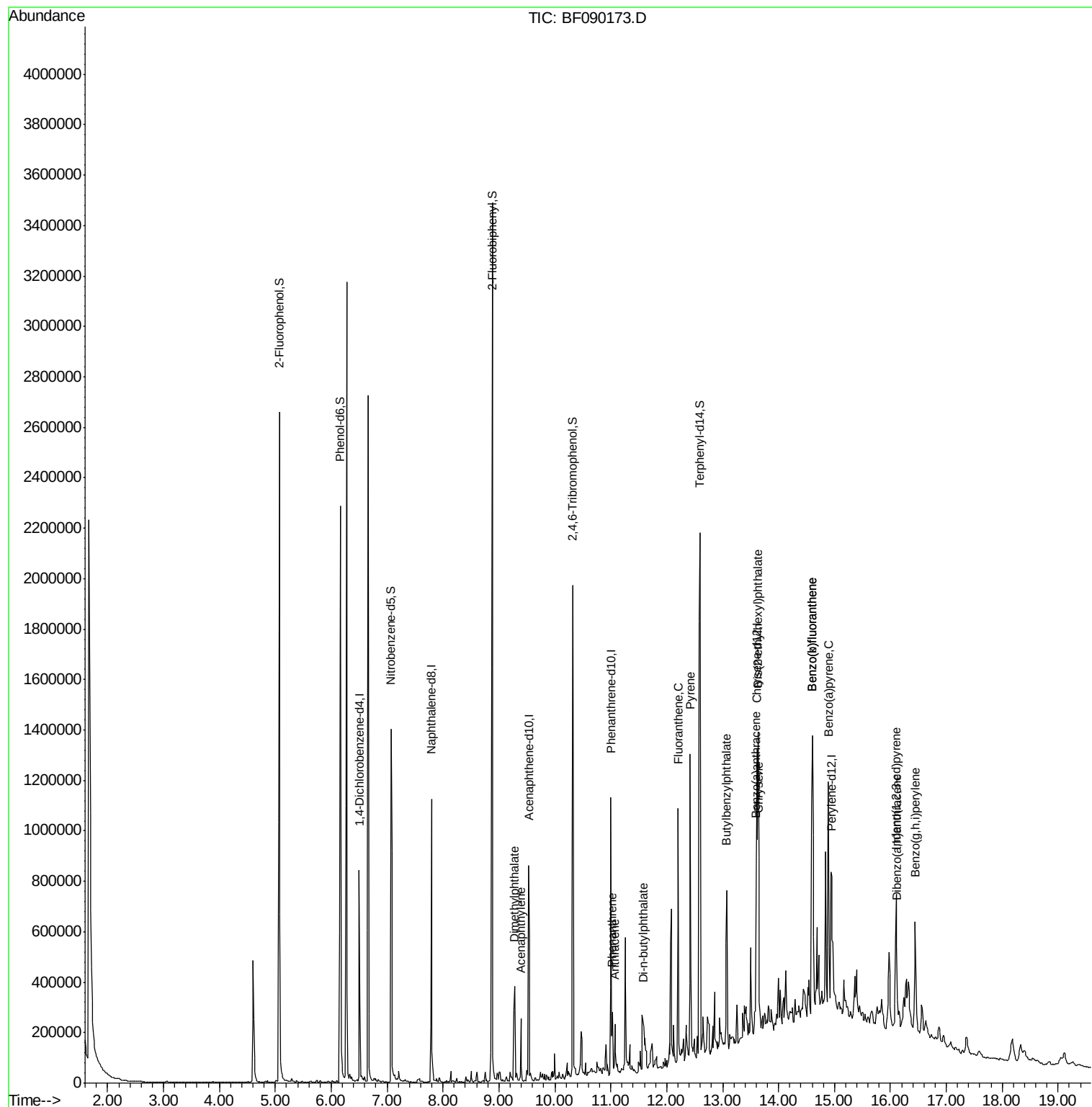
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	149247	20.00	ng	-0.02
21) Naphthalene-d8	7.79	136	523355	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	244556	20.00	ng	-0.02
63) Phenanthrene-d10	11.00	188	432899	20.00	ng	-0.02
75) Chrysene-d12	13.61	240	277255	20.00	ng	-0.02
86) Perylene-d12	14.95	264	313013	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	1027961	112.27	ng	0.00
7) Phenol-d6	6.16	99	1517896	134.23	ng	-0.01
23) Nitrobenzene-d5	7.07	82	722037	79.98	ng	-0.02
41) 2,4,6-Tribromophenol	10.32	330	247583	118.00	ng	-0.02
44) 2-Fluorobiphenyl	8.88	172	1289181	103.49	ng	-0.01
78) Terphenyl-d14	12.59	244	954785	87.43	ng	-0.01
Target Compounds						Qvalue
48) Acenaphthylene	9.39	152	105052	5.01	ng	98
49) Dimethylphthalate	9.28	163	231521	14.86	ng	99
70) Phenanthrene	11.03	178	91629	4.53	ng	97
71) Anthracene	11.07	178	90122	4.24	ng	99
73) Di-n-butylphthalate	11.59	149	70978	2.72	ng	100
74) Fluoranthene	12.20	202	492323	22.65	ng	93
77) Pyrene	12.42	202	478720	25.23	ng	98
79) Butylbenzylphthalate	13.07	149	173027	18.64	ng	97
80) Benzo(a)anthracene	13.60	228	367123m	24.61	ng	
82) Chrysene	13.64	228	245162m	16.87	ng	
83) Bis(2-ethylhexyl)phthalate	13.63	149	235160	19.80	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.10	276	339000	28.86	ng	92
87) Benzo(b)fluoranthene	14.60	252	495830m	28.61	ng	
88) Benzo(k)fluoranthene	14.60	252	297038m	18.26	ng	
89) Benzo(a)pyrene	14.89	252	368489	22.60	ng	# 93
90) Dibenzo(a,h)anthracene	16.11	278	69865m	5.49	ng	
91) Benzo(a,h,i)perylene	16.45	276	298995	24.01	ng	99

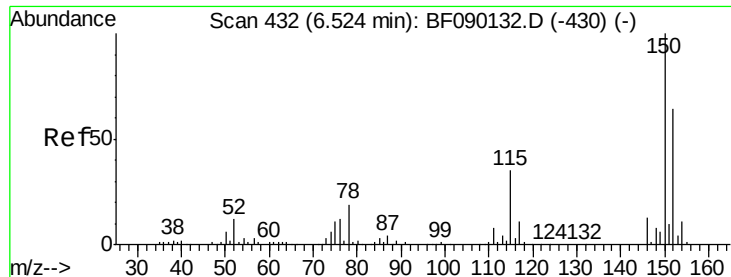
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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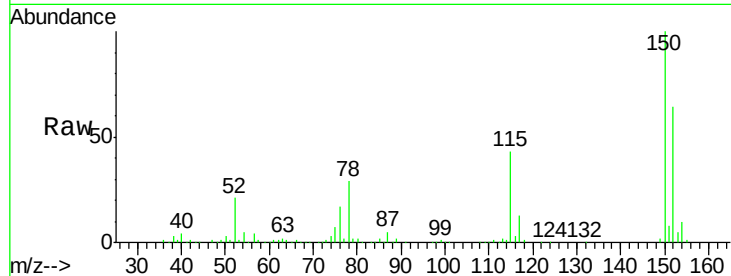


#1

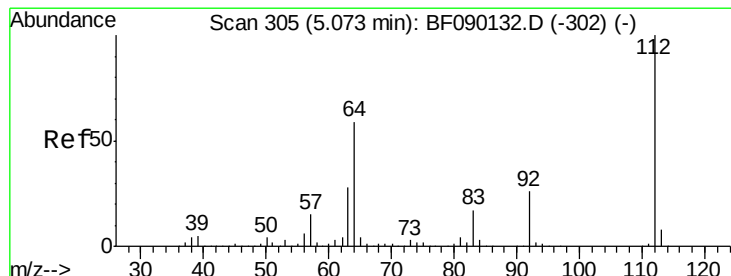
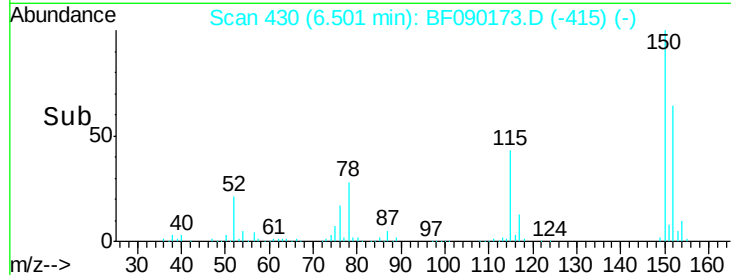
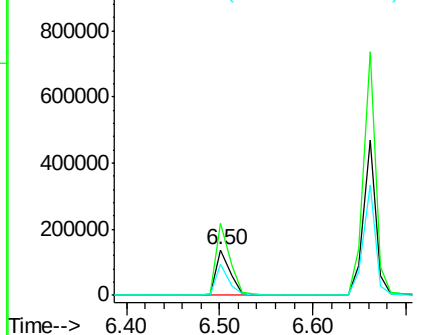
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.50 min Scan# 430
Delta R.T. -0.02 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

Instrument :
BNA_F
ClientSampled :
SS-4

Tot Ion:152 Resp: 149247
Ion Ratio Lower Upper
152 100
150 157.5 128.9 193.3
115 67.5 55.5 83.3



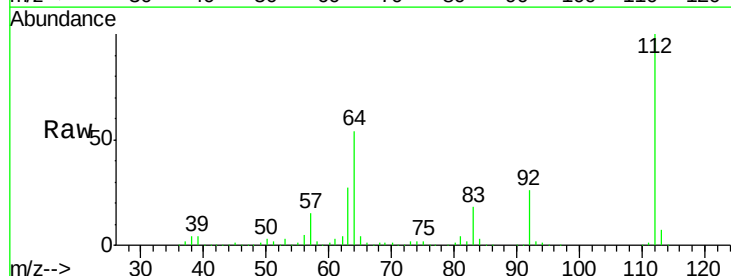
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



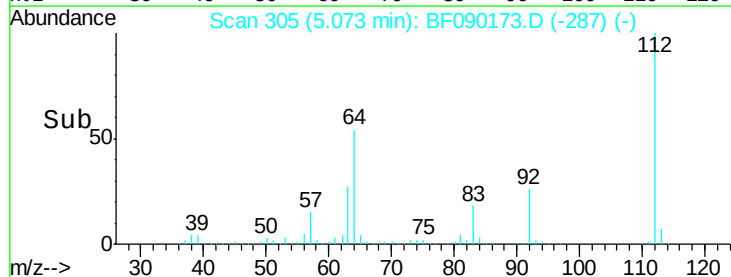
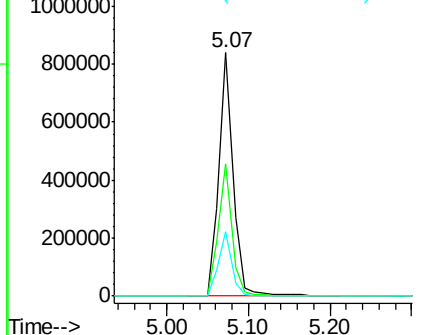
#5

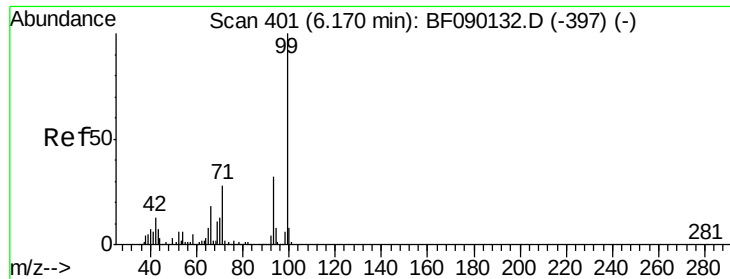
2-Fluorophenol
Concen: 112.27 ng
RT: 5.07 min Scan# 305
Delta R.T. 0.00 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

Tgt Ion:112 Resp: 1027961
Ion Ratio Lower Upper
112 100
64 54.4 39.8 59.6
63 26.7 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: 134.23 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

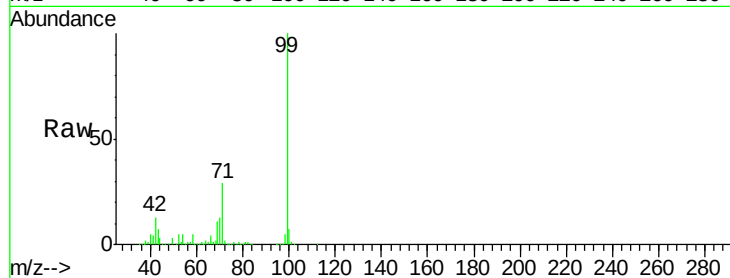
BNA_F

ClientSampleId :

SS-4

Tot Ion: 99 Resp: 1517896

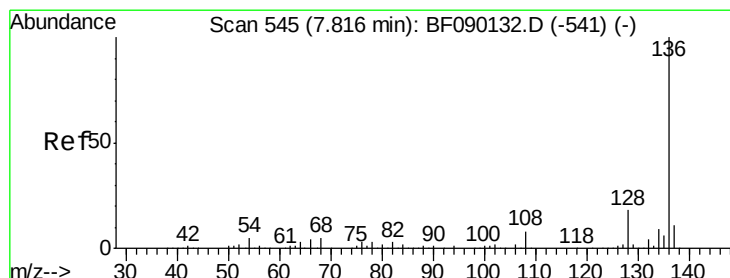
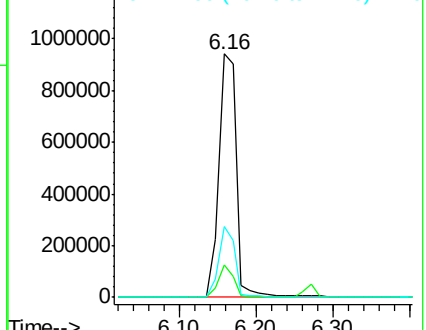
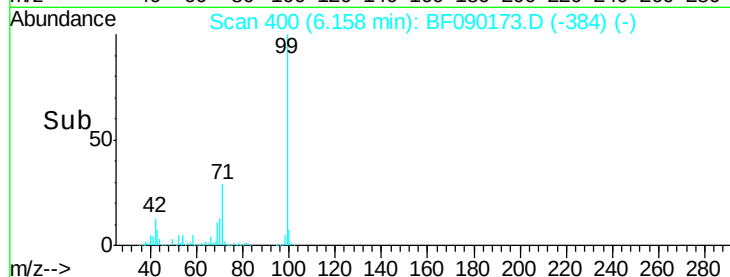
Ion	Ratio	Lower	Upper
99	100		
42	13.2	10.6	15.8
71	29.3	23.0	34.6



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: 7.79 min Scan# 543

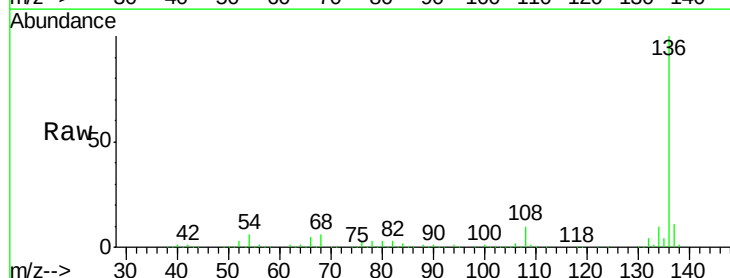
Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Tgt Ion: 136 Resp: 523355

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.3	6.4	9.6#
68	6.3	6.3	9.5#

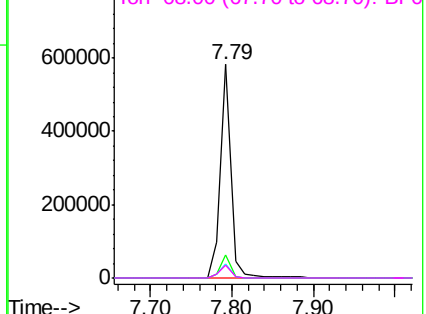
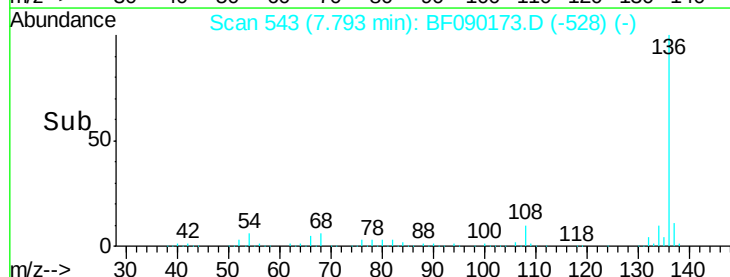


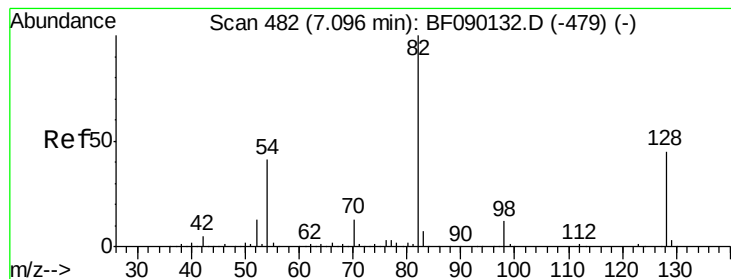
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 79.98 ng

RT: 7.07 min Scan# 480

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleId :

SS-4

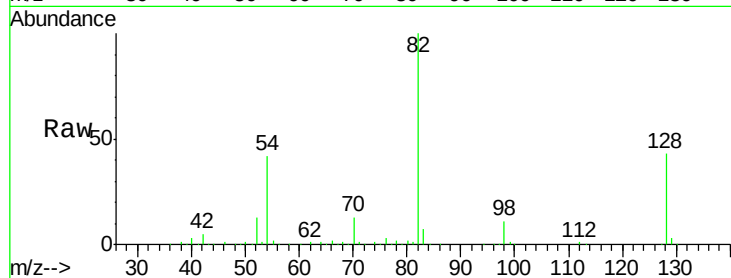
Tot Ion: 82 Resp: 722037

Ion Ratio Lower Upper

82 100

128 43.1 37.5 56.3

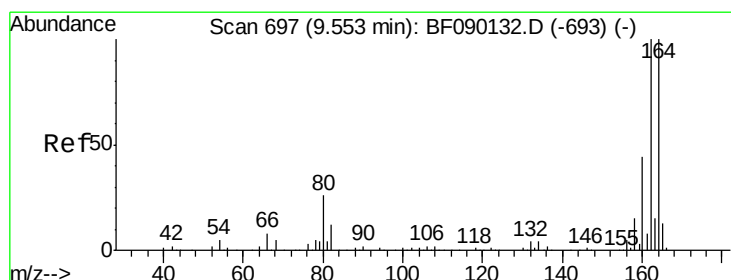
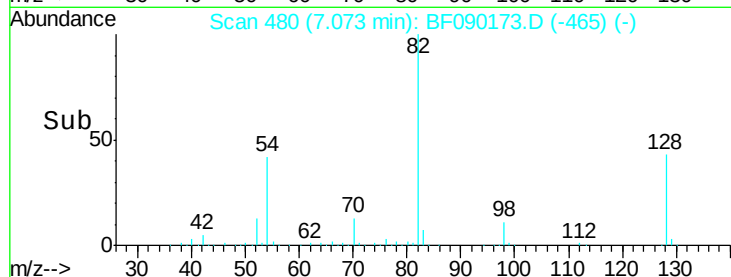
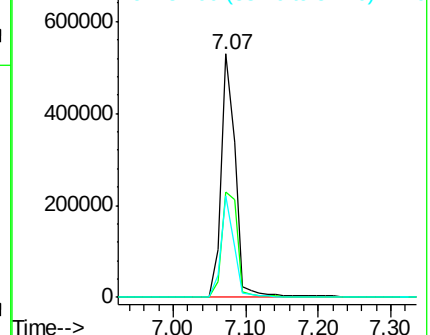
54 41.6 31.9 47.9



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.53 min Scan# 695

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

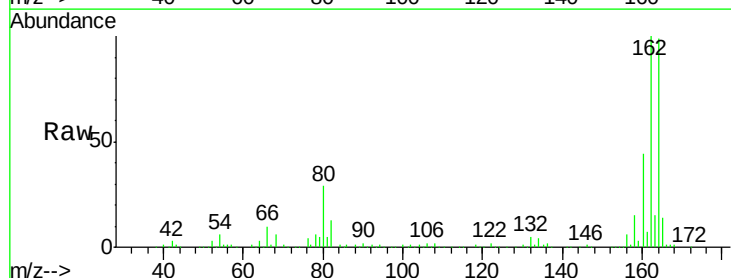
Tgt Ion: 164 Resp: 244556

Ion Ratio Lower Upper

164 100

162 100.8 81.4 122.2

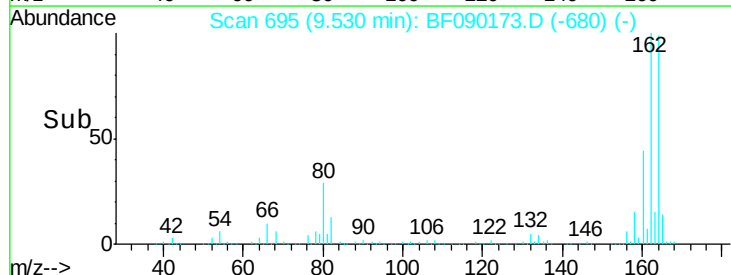
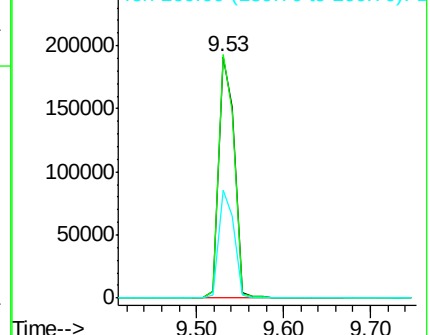
160 44.6 36.6 54.8

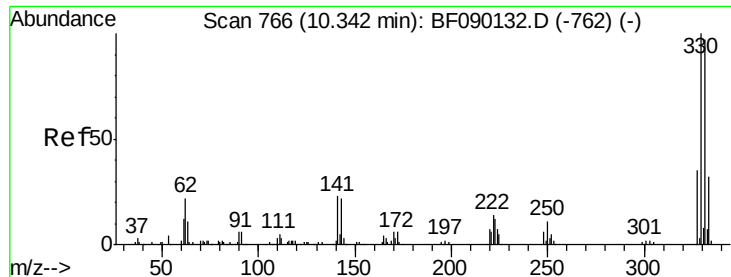


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

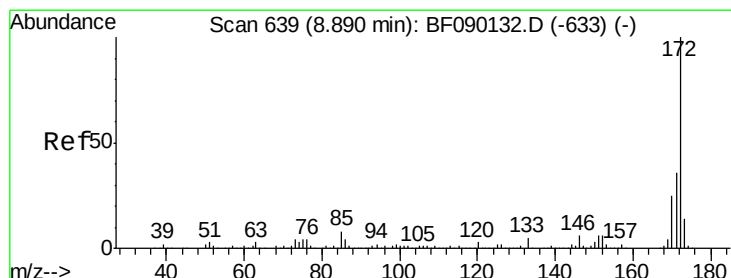
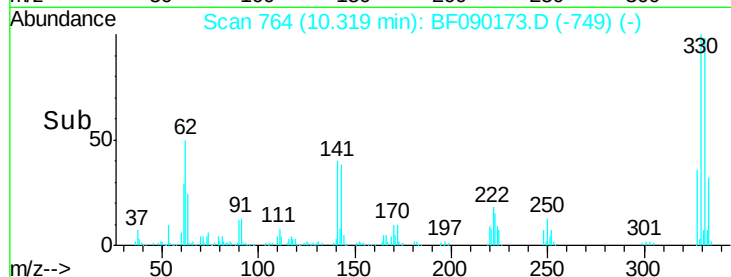
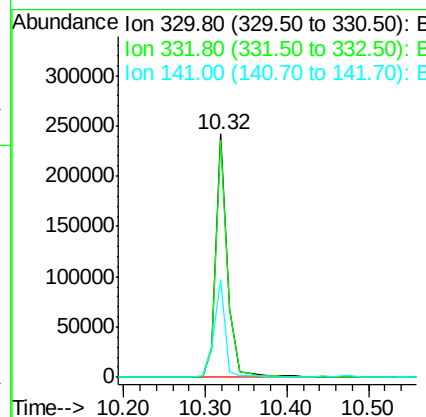
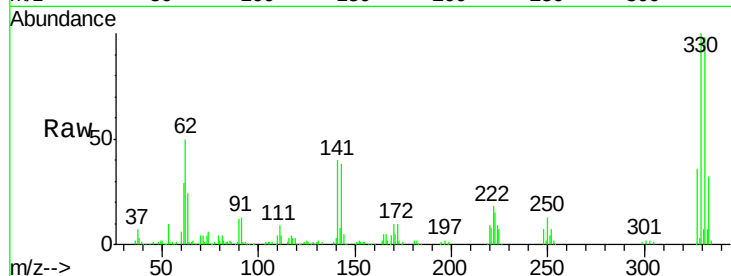




#41
 2,4,6-Tribromophenol
 Concen: 118.00 ng
 RT: 10.32 min Scan# 764
 Delta R.T. -0.02 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

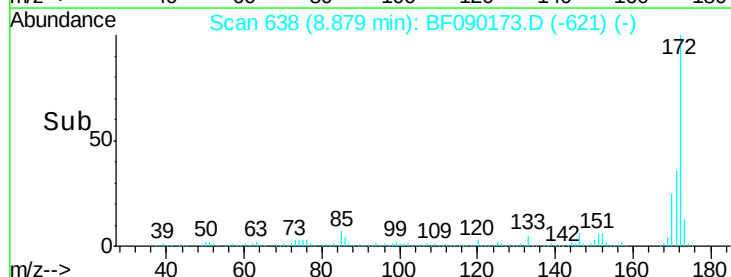
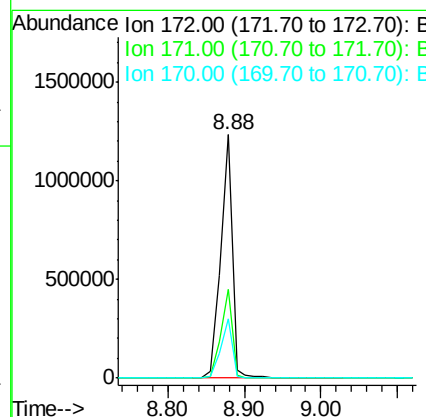
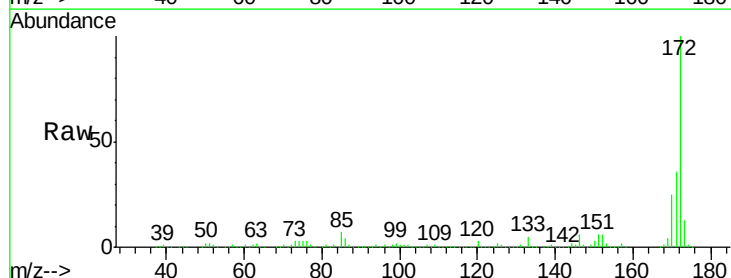
Instrument :
 BNA_F
 ClientSampleId :
 SS-4

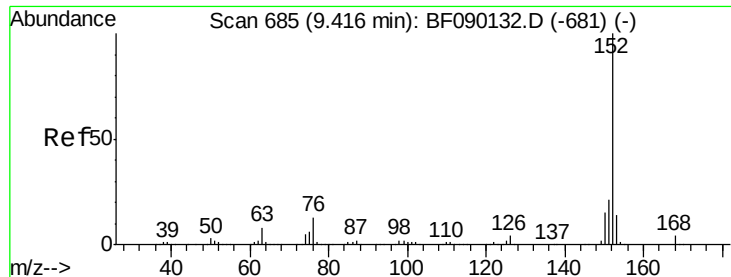
Tot Ion	Ratio	Lower	Upper
330	100		
332	98.0	78.1	117.1
141	38.3	23.9	35.9#



#44
 2-Fluorobiphenyl
 Concen: 103.49 ng
 RT: 8.88 min Scan# 638
 Delta R.T. -0.01 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.2	43.8
170	24.5	19.8	29.8





#48

Acenaphthylene

Concen: 5.01 ng

RT: 9.39 min Scan# 683

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampled :

SS-4

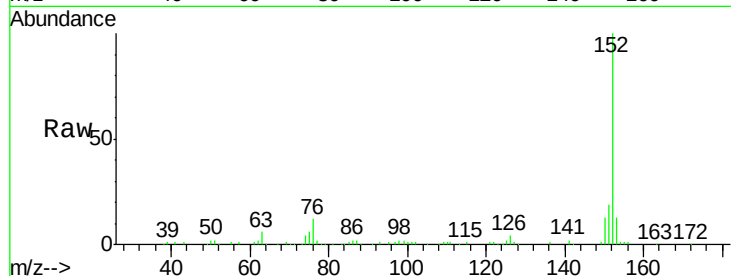
Tot Ion:152 Resp: 105052

Ion Ratio Lower Upper

152 100

151 19.4 16.5 24.7

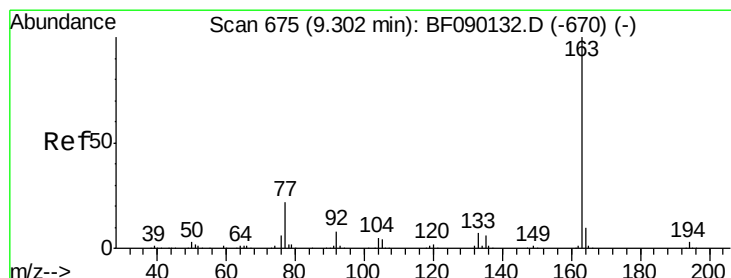
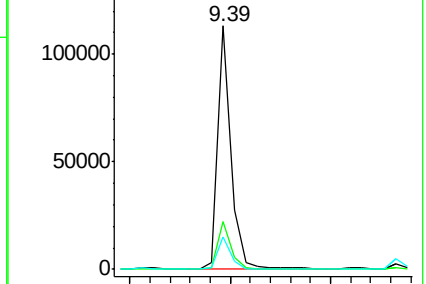
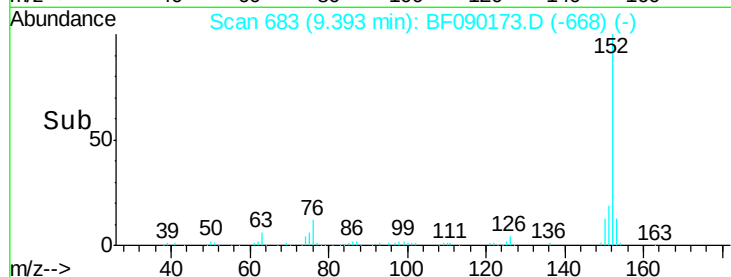
153 13.1 10.6 15.8



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: 14.86 ng

RT: 9.28 min Scan# 673

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

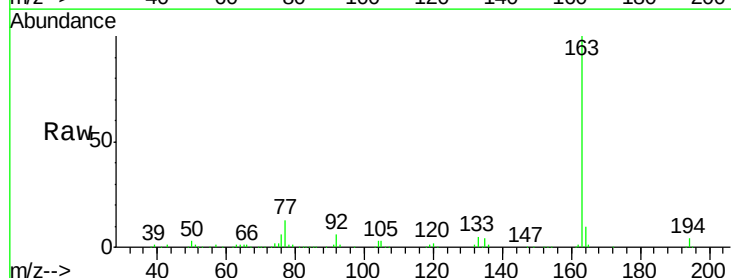
Tgt Ion:163 Resp: 231521

Ion Ratio Lower Upper

163 100

194 3.7 2.8 4.2

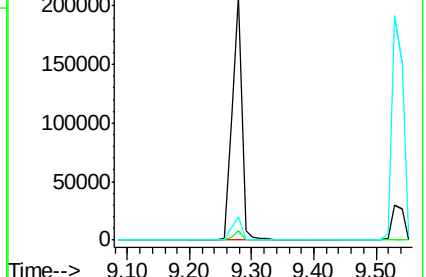
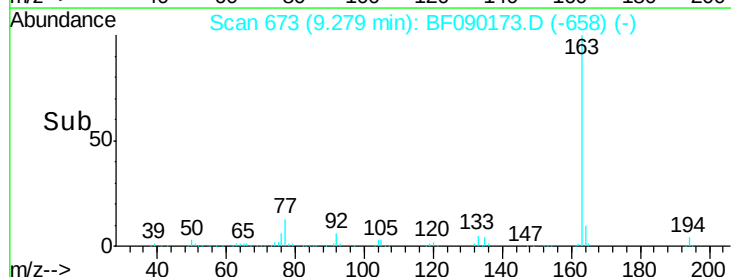
164 9.6 8.1 12.1

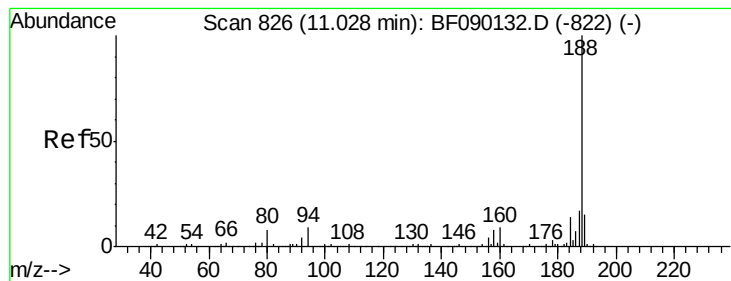


Abundance Ion 163.00 (162.70 to 163.70): E

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: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleId :

SS-4

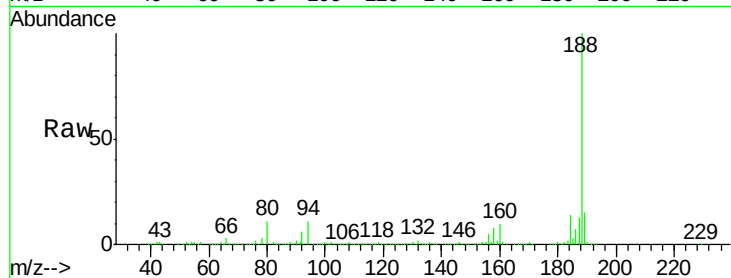
Tot Ion:188 Resp: 432899

Ion Ratio Lower Upper

188 100

94 10.6 10.5 15.7

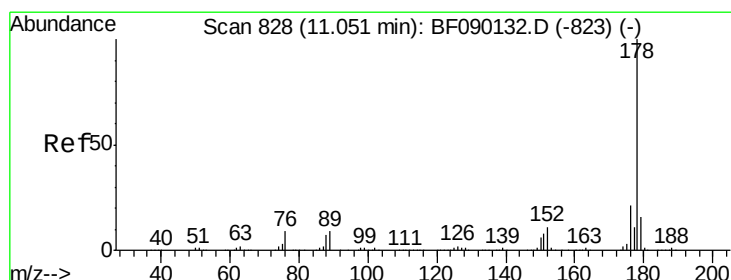
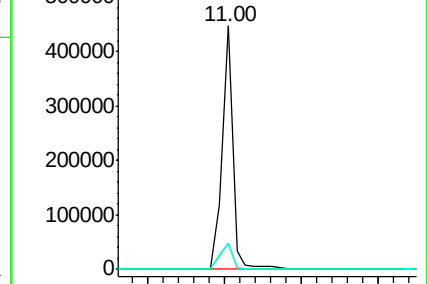
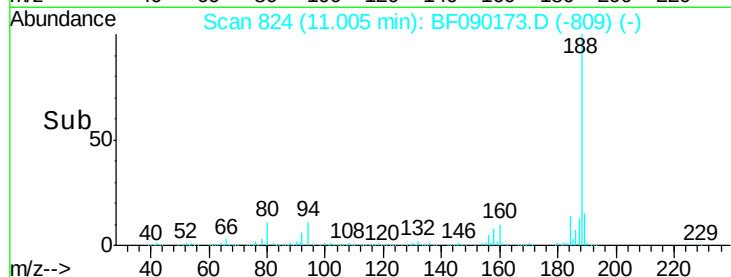
80 10.9 11.2 16.8#



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: 4.53 ng

RT: 11.03 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

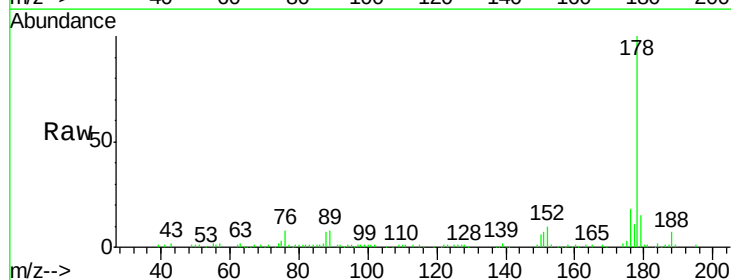
Tgt Ion:178 Resp: 91629

Ion Ratio Lower Upper

178 100

176 18.2 15.9 23.9

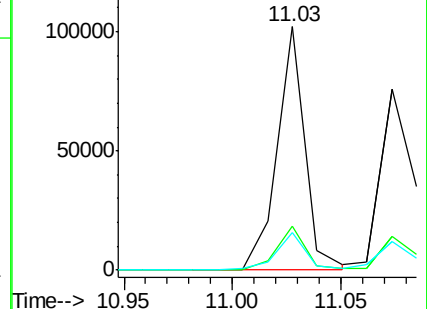
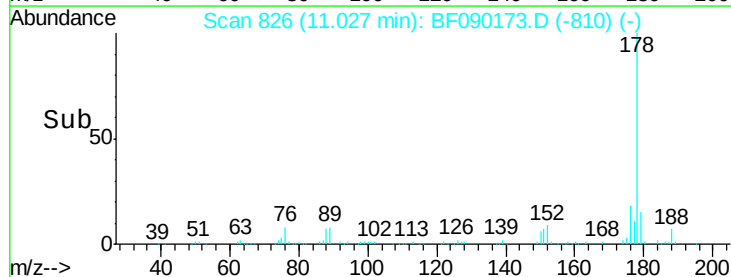
179 15.2 12.9 19.3

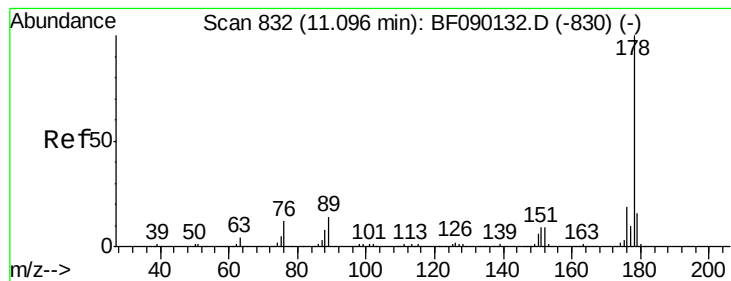


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 4.24 ng

RT: 11.07 min Scan# 830

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleId :

SS-4

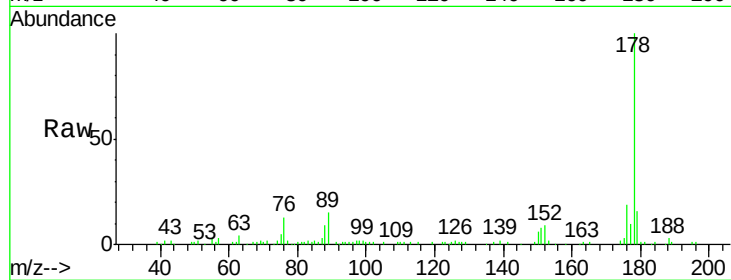
Tot Ion:178 Resp: 90122

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.6

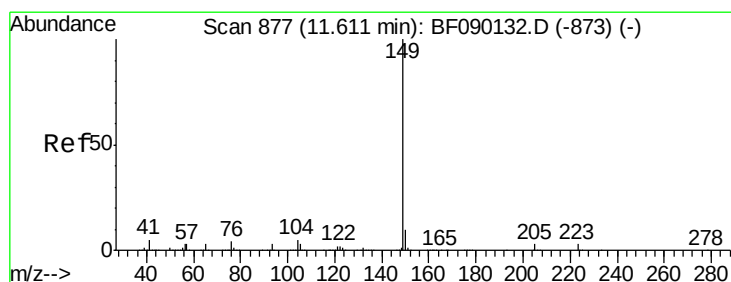
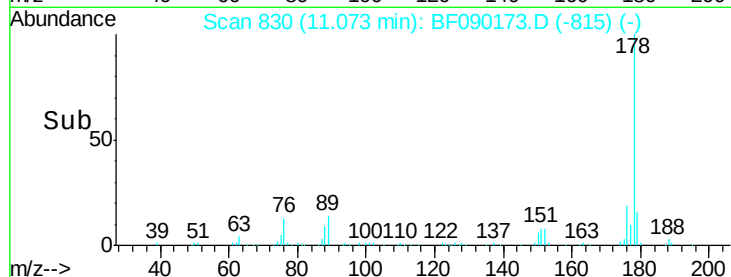
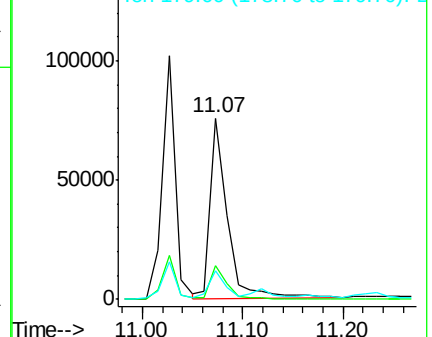
179 15.7 12.6 19.0



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: 2.72 ng

RT: 11.59 min Scan# 875

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

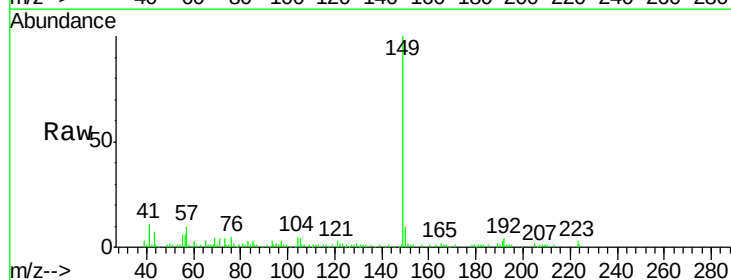
Tgt Ion:149 Resp: 70978

Ion Ratio Lower Upper

149 100

150 9.7 7.8 11.8

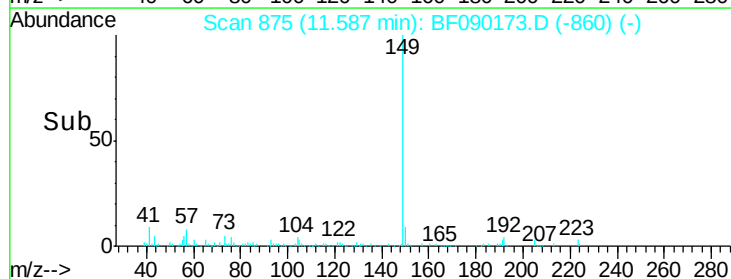
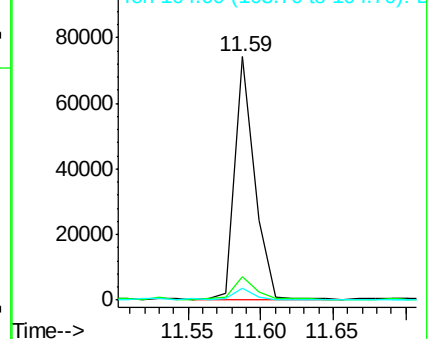
104 5.1 3.9 5.9

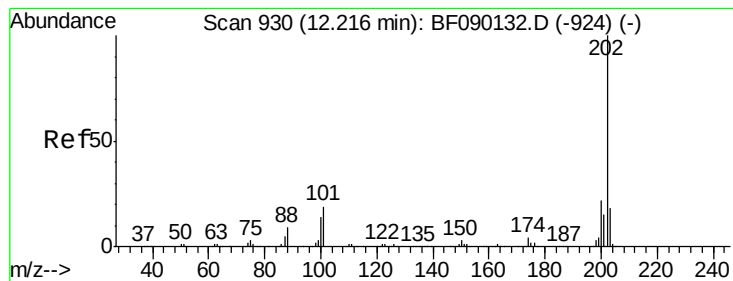


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

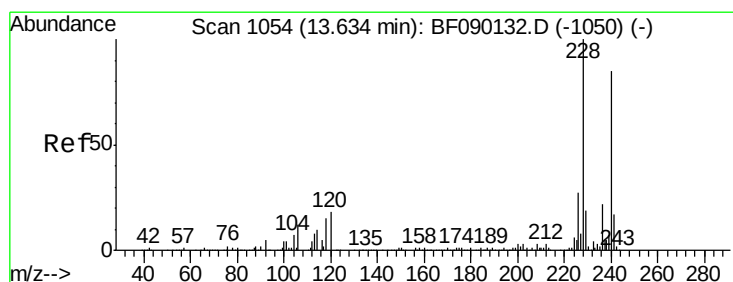
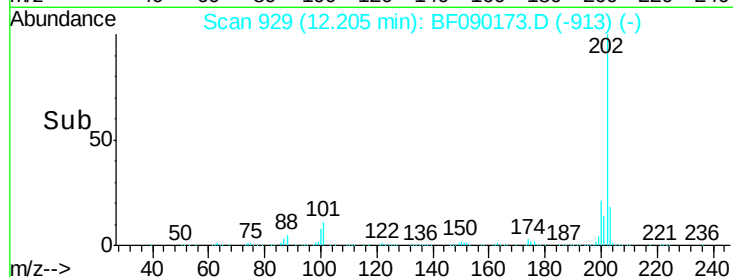
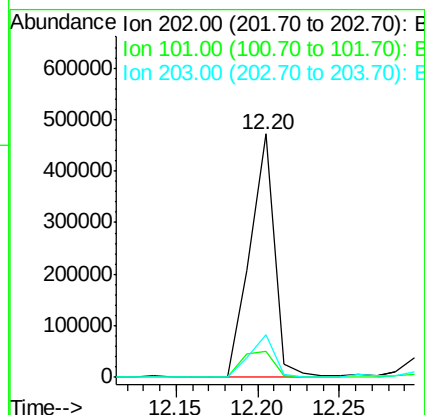
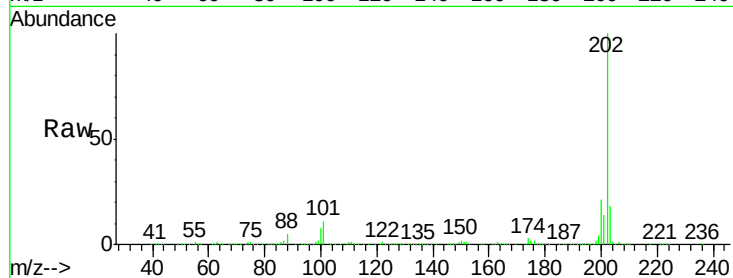




#74
 Fluoranthene
 Concen: 22.65 ng
 RT: 12.20 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

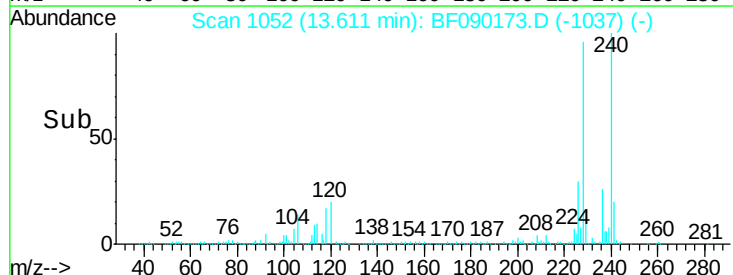
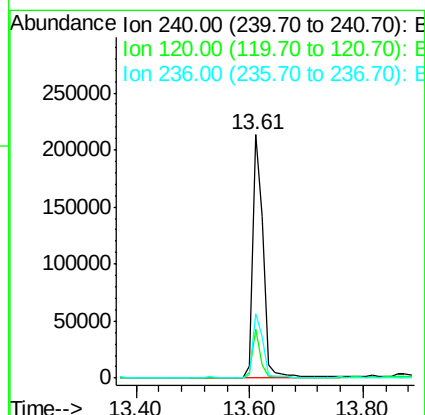
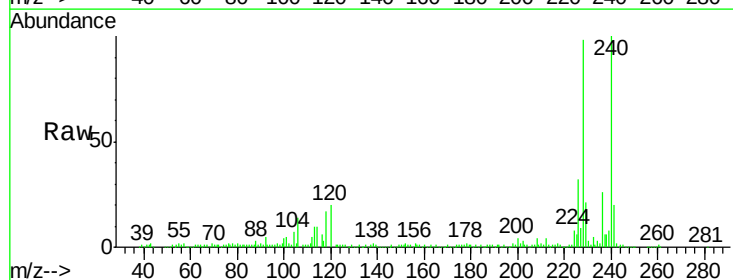
Instrument :
 BNA_F
 ClientSampleId :
 SS-4

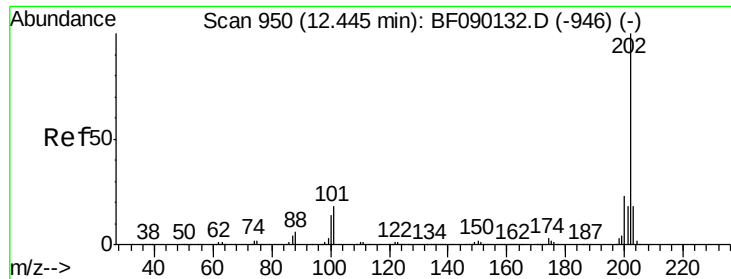
Tot Ion:202 Resp: 492323
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 36.1
 203 17.7 0.0 38.2



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.61 min Scan# 1052
 Delta R.T. -0.02 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

Tgt Ion:240 Resp: 277255
 Ion Ratio Lower Upper
 240 100
 120 20.2 10.6 16.0#
 236 26.3 21.6 32.4





#77

Pvrene

Concen: 25.23 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleId :

SS-4

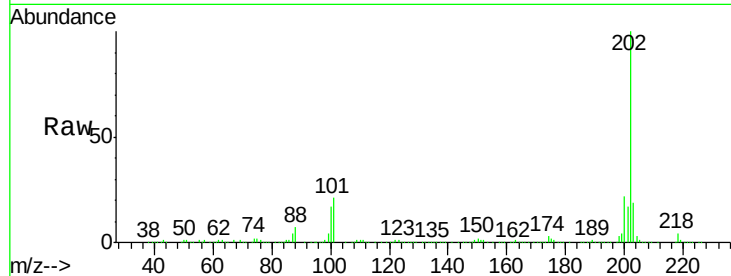
Tot Ion:202 Resp: 478720

Ion Ratio Lower Upper

202 100

200 21.8 17.9 26.9

203 19.3 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

600000

500000

400000

300000

200000

100000

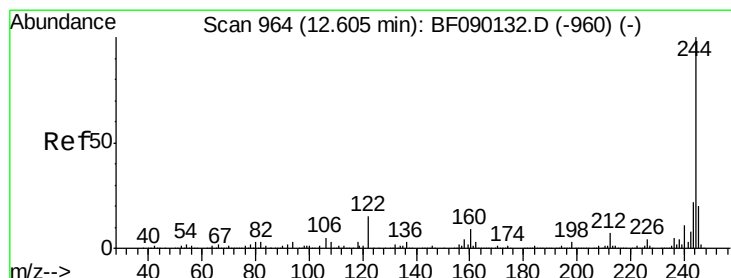
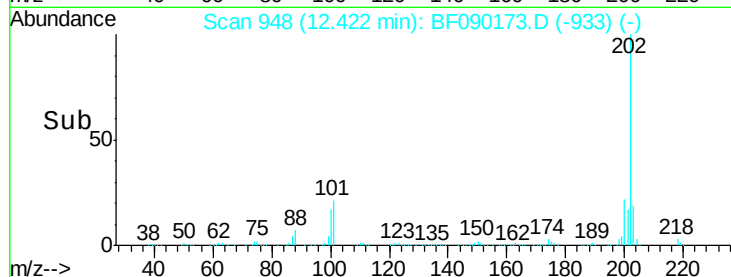
0

12.42

12.40

12.50

Time-->



#78

Terphenyl-d14

Concen: 87.43 ng

RT: 12.59 min Scan# 963

Delta R.T. -0.01 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

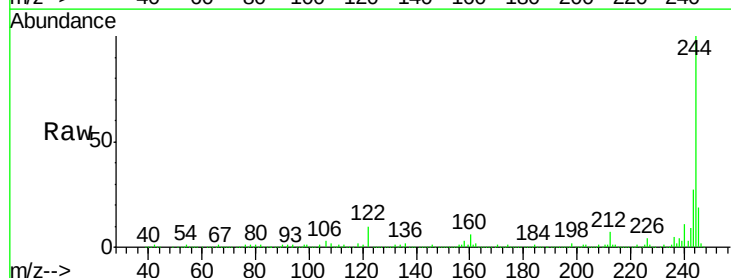
Tgt Ion:244 Resp: 954785

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.8

122 9.9 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

1000000

800000

600000

400000

200000

0

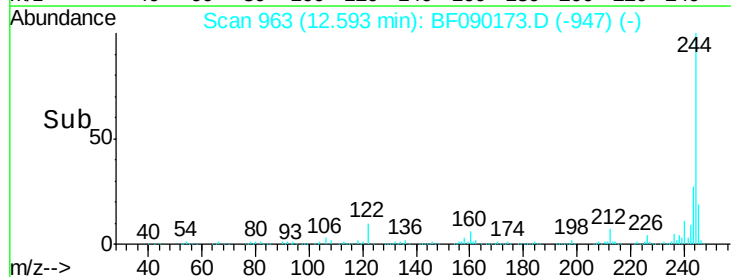
12.59

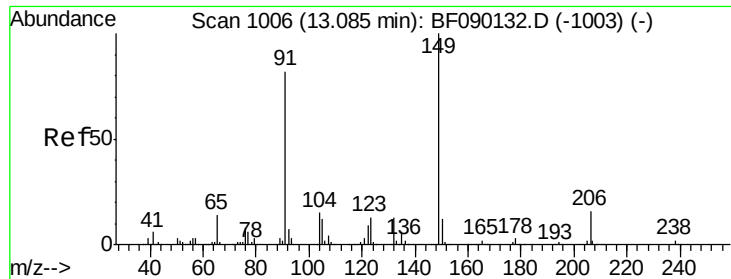
12.50

12.70

12.80

Time-->

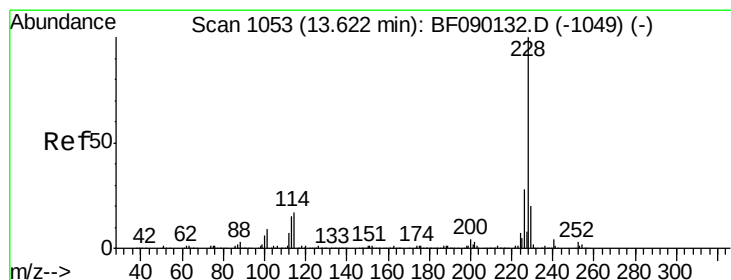
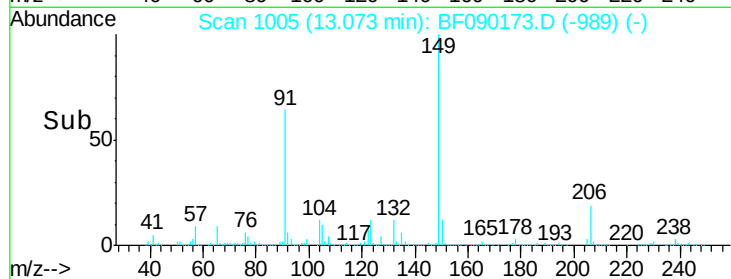
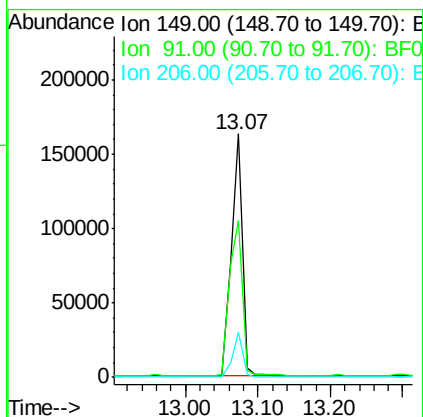
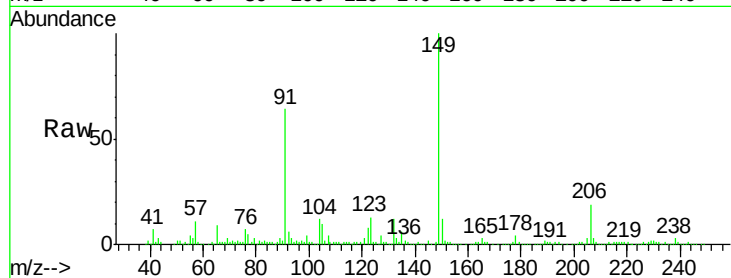




#79
Butylbenzylphthalate
Concen: 18.64 ng
RT: 13.07 min Scan# 1005
Delta R.T. -0.01 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

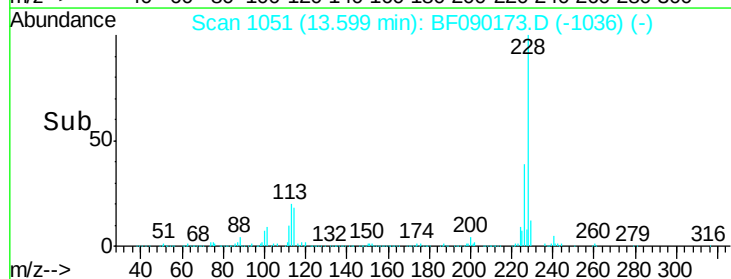
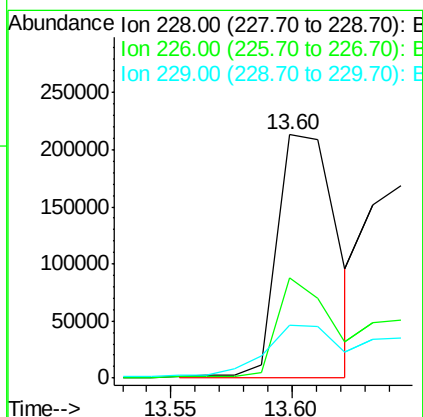
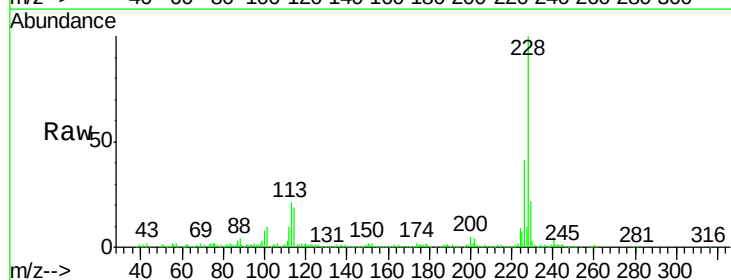
Instrument :
BNA_F
ClientSampleId :
SS-4

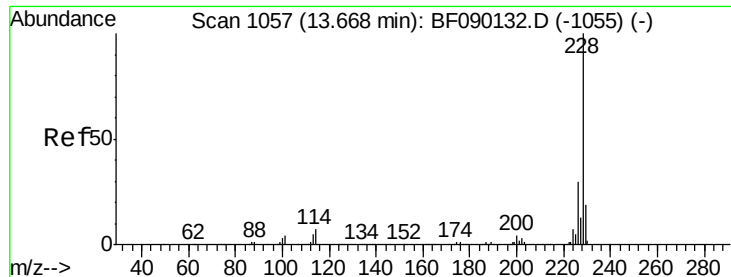
Tot Ion:149 Resp: 173027
Ion Ratio Lower Upper
149 100
91 64.2 49.8 74.6
206 18.6 16.3 24.5



#80
Benzo(a)anthracene
Concen: 24.61 ng m
RT: 13.60 min Scan# 1051
Delta R.T. -0.02 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

Tgt Ion:228 Resp: 367123
Ion Ratio Lower Upper
228 100
226 41.0 22.0 33.0#
229 21.8 16.2 24.2





#82

Chrysene

Concen: 16.87 ng/mL

RT: 13.64 min Scan# 1055

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleID :

SS-4

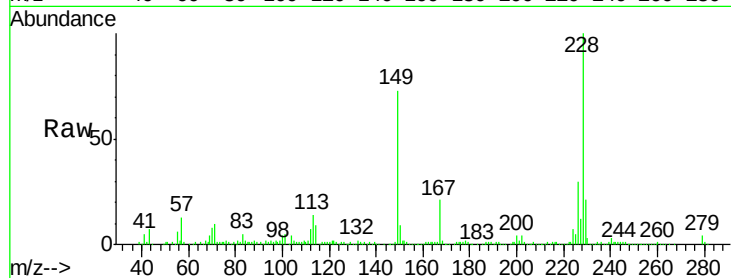
Tot Ion: 228 Resp: 245162

Ion Ratio Lower Upper

228 100

226 30.3 24.6 37.0

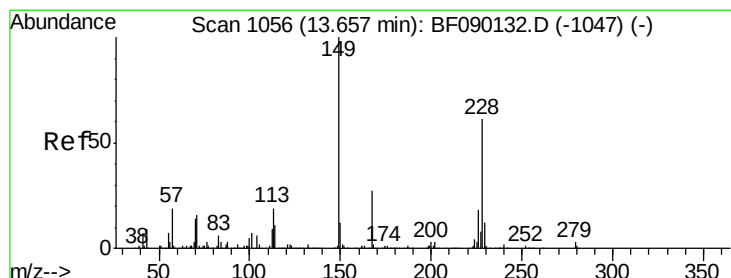
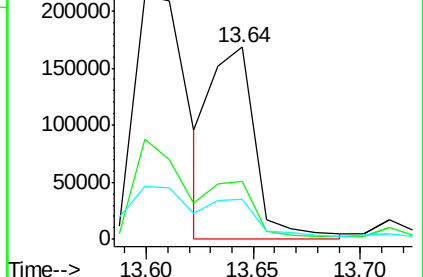
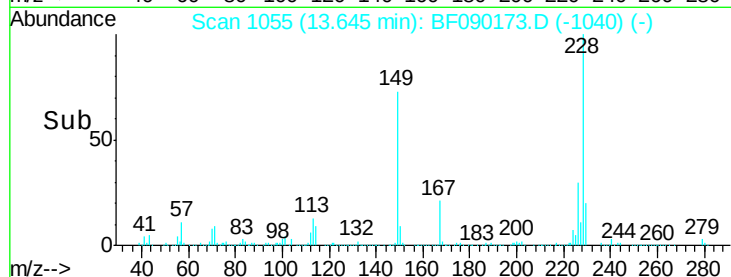
229 21.1 16.2 24.4



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: 19.80 ng/mL

RT: 13.63 min Scan# 1054

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

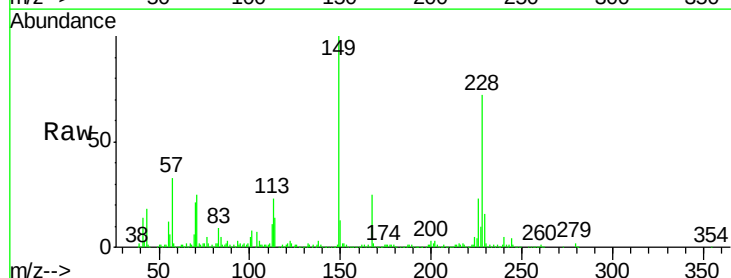
Tgt Ion: 149 Resp: 235160

Ion Ratio Lower Upper

149 100

167 25.2 21.2 31.8

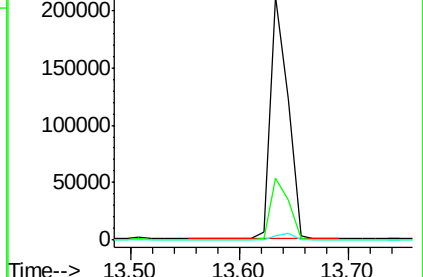
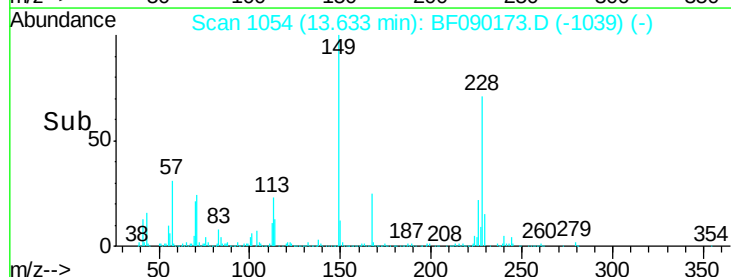
279 1.9 2.2 3.2#

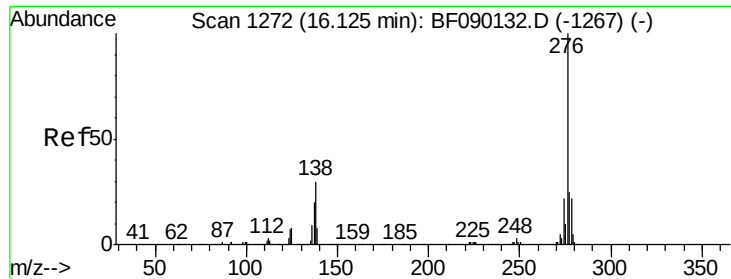


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

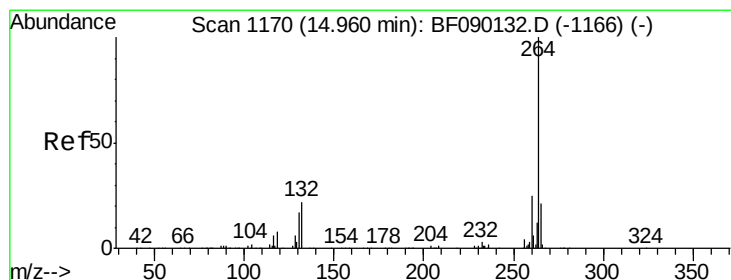
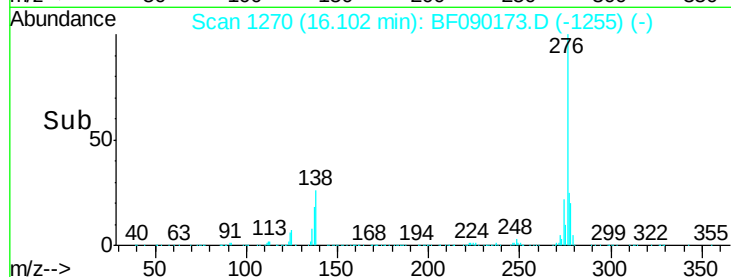
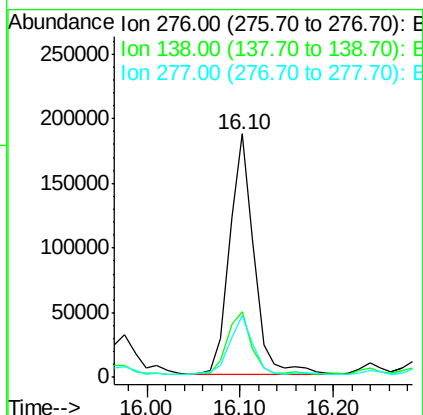
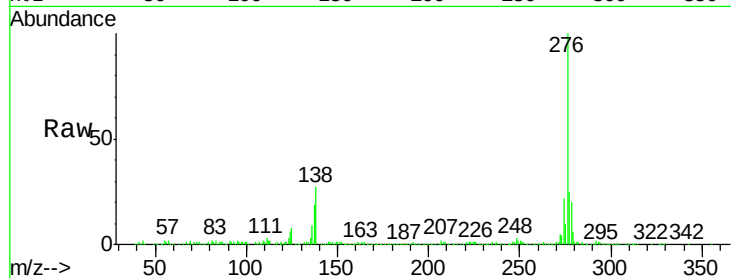




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 28.86 ng
 RT: 16.10 min Scan# 1270
 Delta R.T. -0.02 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

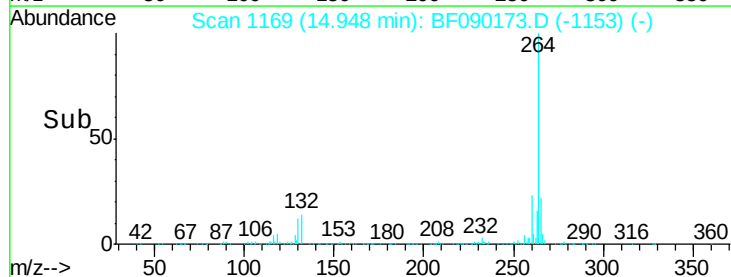
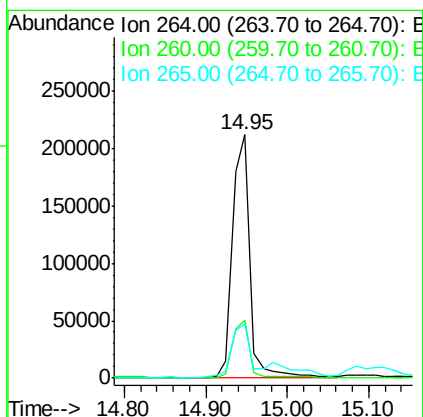
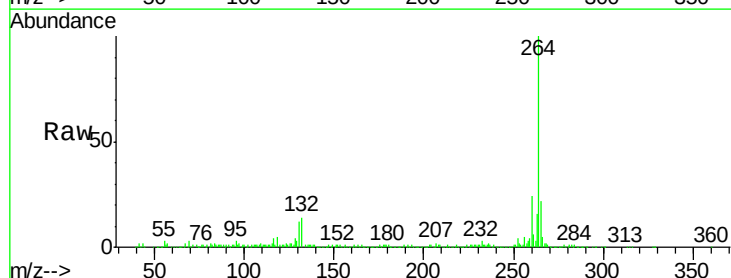
Instrument :
 BNA_F
 ClientSampleId :
 SS-4

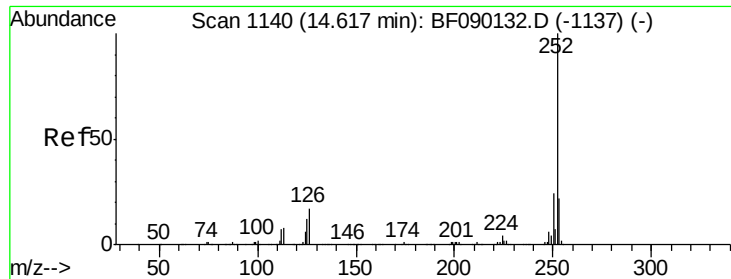
Tot Ion	Ratio	Lower	Upper
276	100		
138	26.1	25.9	38.9
277	22.8	19.9	29.9



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.95 min Scan# 1169
 Delta R.T. -0.01 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	22.2	17.0	25.4

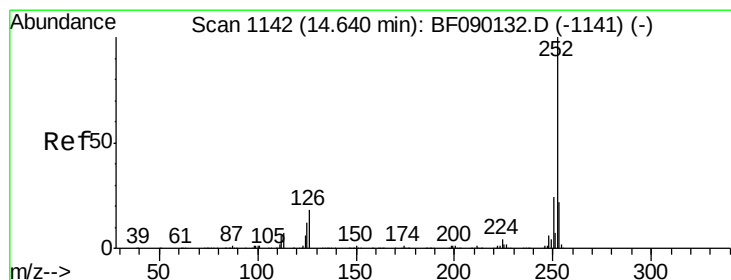
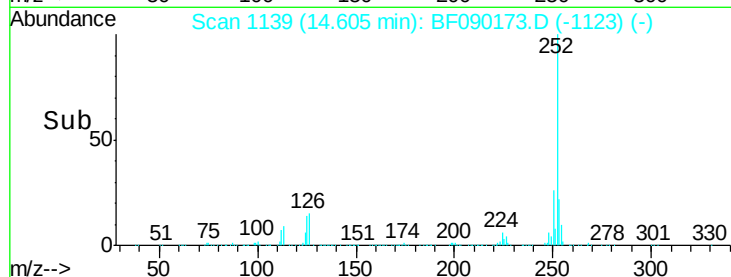
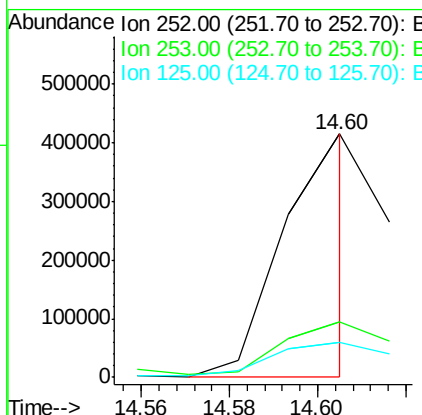
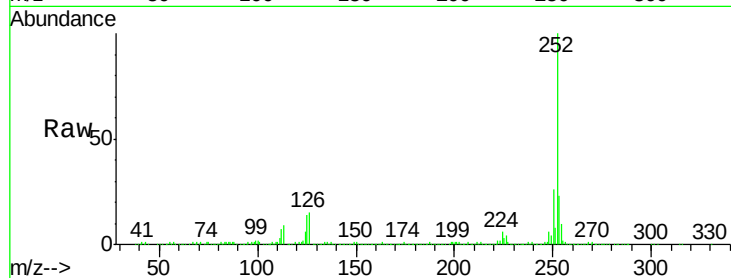




#87
Benzo(b)fluoranthene
Concen: 28.61 ng m
RT: 14.60 min Scan# 1139
Delta R.T. -0.01 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

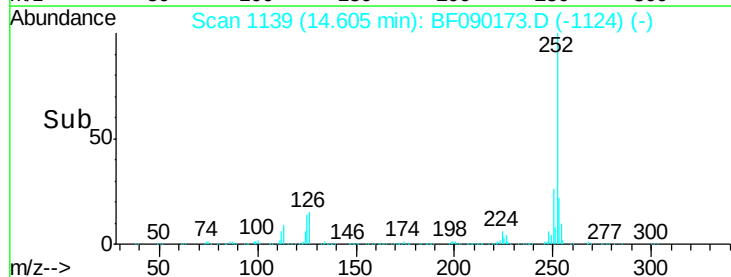
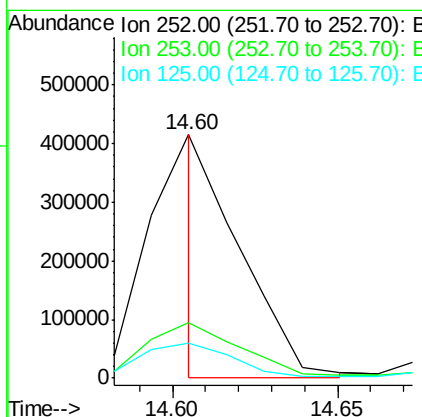
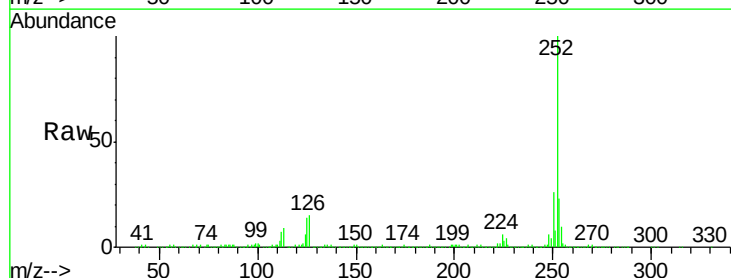
Instrument :
BNA_F
ClientSampleId :
SS-4

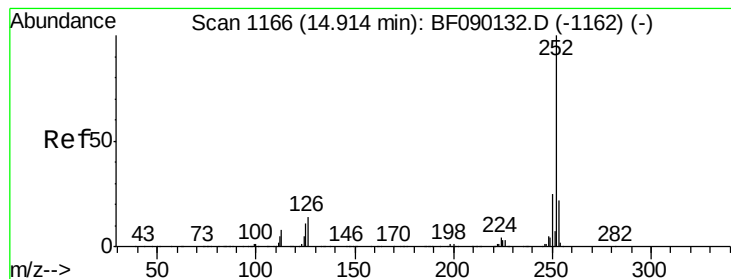
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	14.3	12.7	19.1



#88
Benzo(k)fluoranthene
Concen: 18.26 ng m
RT: 14.60 min Scan# 1139
Delta R.T. -0.03 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.8
125	14.3	7.8	11.6#





#89

Benzo(a)pyrene

Concen: 22.60 ng

RT: 14.89 min Scan# 1164

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleId :

SS-4

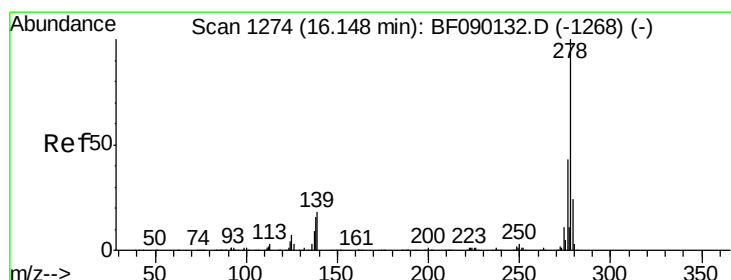
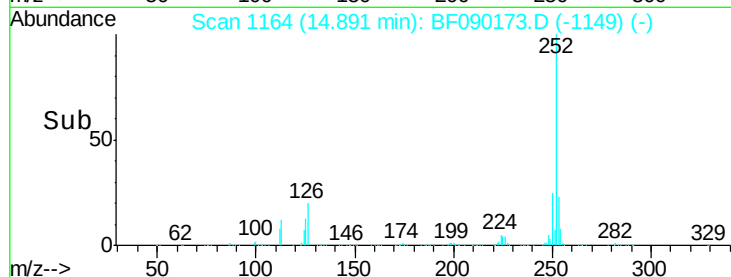
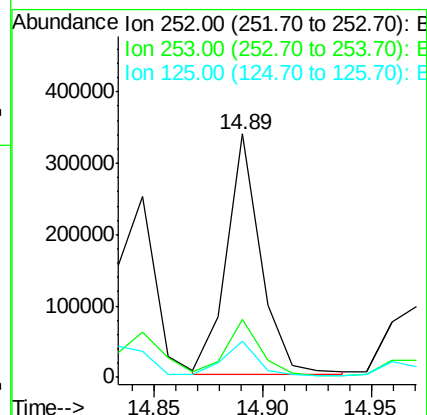
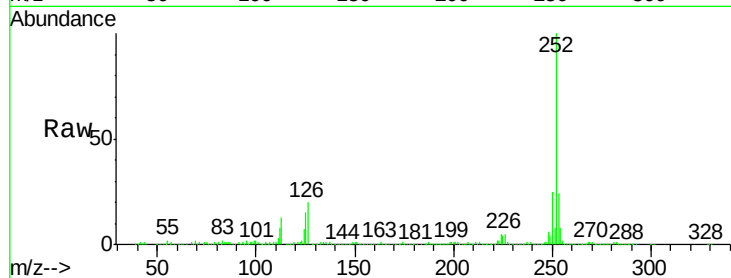
Tot Ion:252 Resp: 368489

Ion Ratio Lower Upper

252 100

253 23.8 17.4 26.0

125 14.9 7.7 11.5#



#90

Dibenzo(a,h)anthracene

Concen: 5.49 ng m

RT: 16.11 min Scan# 1271

Delta R.T. -0.03 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

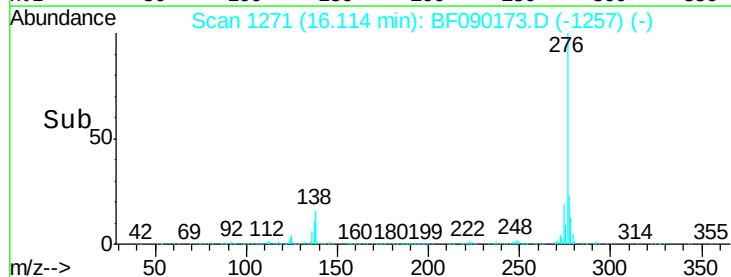
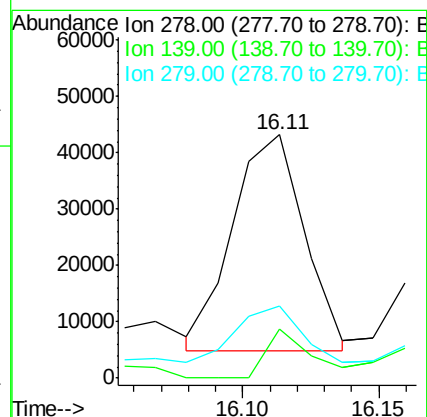
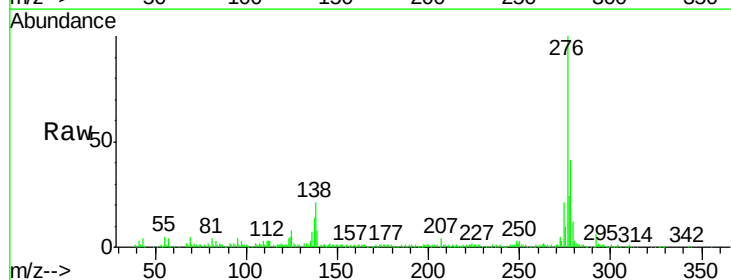
Tgt Ion:278 Resp: 69865

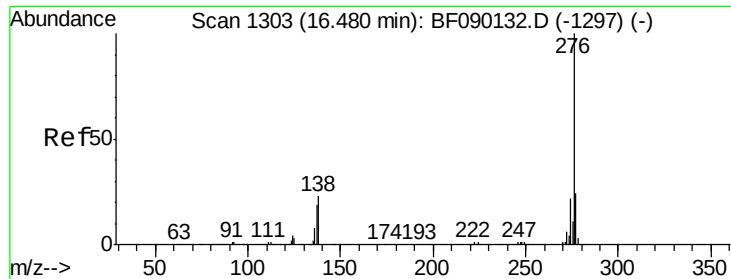
Ion Ratio Lower Upper

278 100

139 20.3 14.6 21.8

279 29.4 18.8 28.2#





#91
 Benzo(a,h,i)perylene
 Concen: 24.01 ng
 RT: 16.45 min Scan# 1300
 Delta R.T. -0.03 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

Instrument :
 BNA_F
 ClientSampleId :
 SS-4

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.9	28.3
138	27.9	23.3	34.9

