

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091216\
 Data File : BF090063.D
 Acq On : 12 Sep 2016 15:07
 Operator : UM/SJ
 Sample : H4704-07DL 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-7-3.0-4.0DL

Quant Time: Sep 12 16:09:08 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF083116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 12 15:34:24 2016
 Response via : Initial Calibration

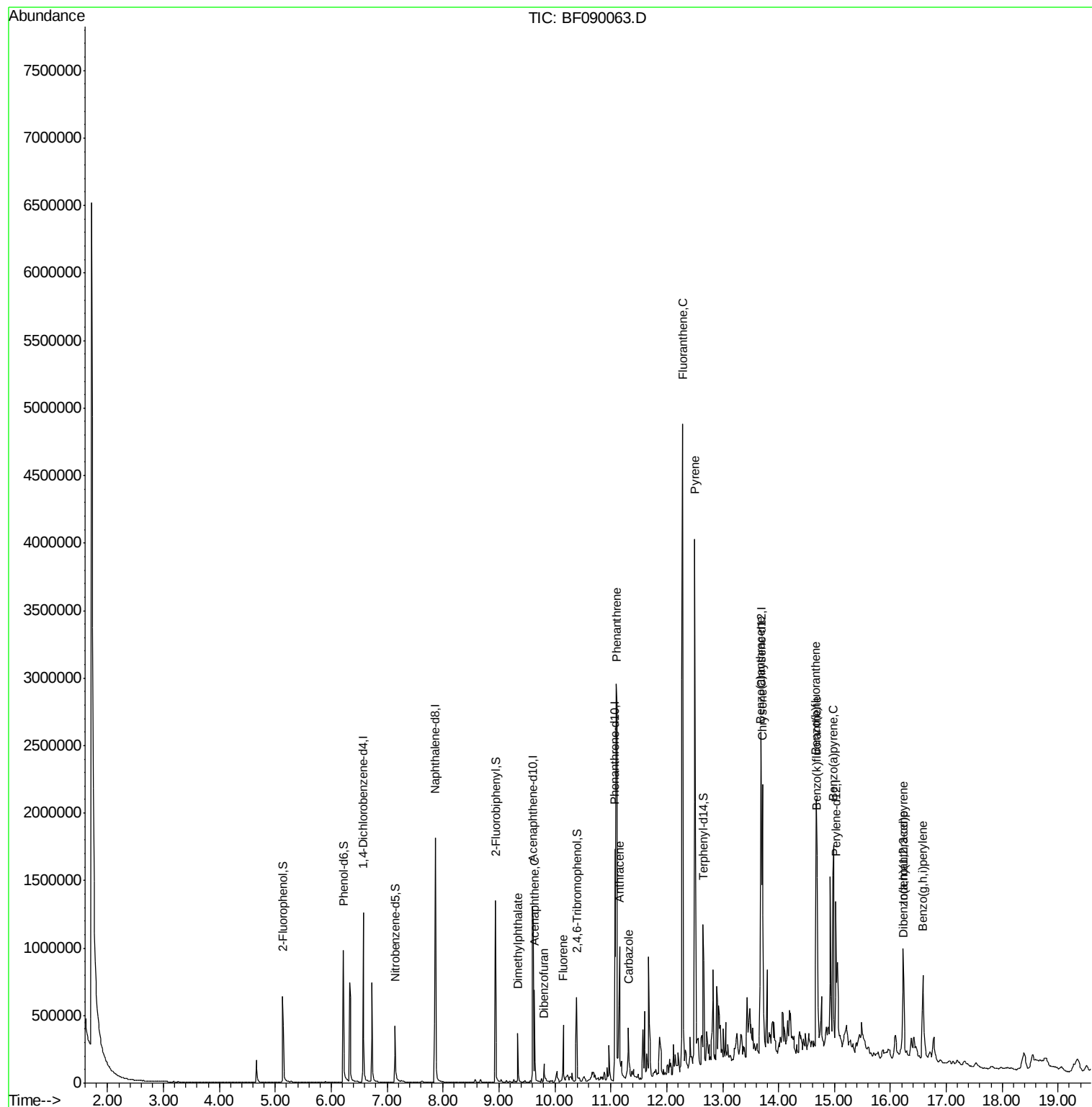
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.57	152	208678	20.00	ng	-0.01
21) Naphthalene-d8	7.86	136	884660	20.00	ng	0.00
38) Acenaphthene-d10	9.60	164	409339	20.00	ng	-0.01
63) Phenanthrene-d10	11.07	188	801523	20.00	ng	-0.01
75) Chrysene-d12	13.69	240	477228	20.00	ng	0.00
86) Perylene-d12	15.03	264	503023	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	264783	20.31	ng	-0.01
7) Phenol-d6	6.22	99	389477	24.59	ng	-0.01
23) Nitrobenzene-d5	7.14	82	202984	13.31	ng	-0.01
41) 2,4,6-Tribromophenol	10.39	330	88860	22.00	ng	-0.01
44) 2-Fluorobiphenyl	8.94	172	461406	18.50	ng	-0.01
78) Terphenyl-d14	12.65	244	391045	20.24	ng	-0.01
Target Compounds						Qvalue
49) Dimethylphthalate	9.34	163	148666	5.02	ng	98
51) Acenaphthene	9.63	154	154898	6.34	ng	97
54) Dibenzofuran	9.80	168	77588	2.37	ng	99
57) Fluorene	10.15	166	135386	5.66	ng	99
70) Phenanthrene	11.11	178	1787979	44.80	ng	99
71) Anthracene	11.15	178	563733	13.93	ng	98
72) Carbazole	11.31	167	272341	7.17	ng	97
74) Fluoranthene	12.28	202	2599242	62.14	ng	98
77) Pyrene	12.50	202	2022567m	60.11	ng	
80) Benzo(a)anthracene	13.68	228	1145282	39.18	ng	98
82) Chrysene	13.71	228	863746m	31.63	ng	
85) Indeno(1,2,3-cd)pyrene	16.23	276	590588	29.26	ng	97
87) Benzo(b)fluoranthene	14.67	252	1039208m	32.98	ng	
88) Benzo(k)fluoranthene	14.69	252	482018m	18.03	ng	
89) Benzo(a)pyrene	14.98	252	894946	33.15	ng	99
90) Dibenzo(a,h)anthracene	16.24	278	143471	7.25	ng	96
91) Benzo(g,h,i)perylene	16.58	276	523887	26.31	ng	# 95

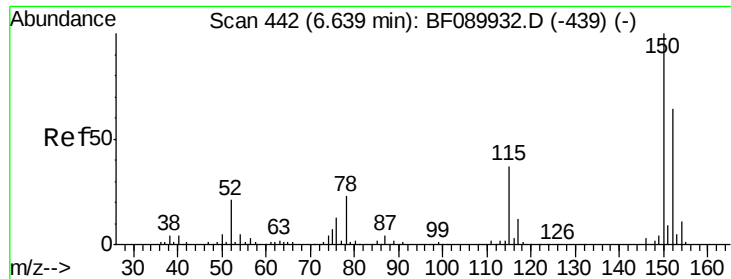
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF083116.M
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QLast Update : Mon Sep 12 15:34:24 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.57 min Scan# 436

Delta R.T. -0.01 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0DL

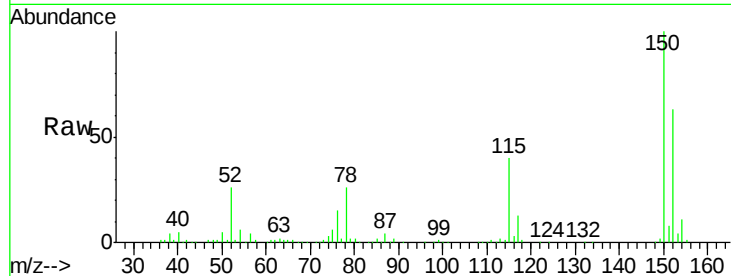
Tgt Ion:152 Resp: 208678

Ion Ratio Lower Upper

152 100

150 159.8 127.4 191.2

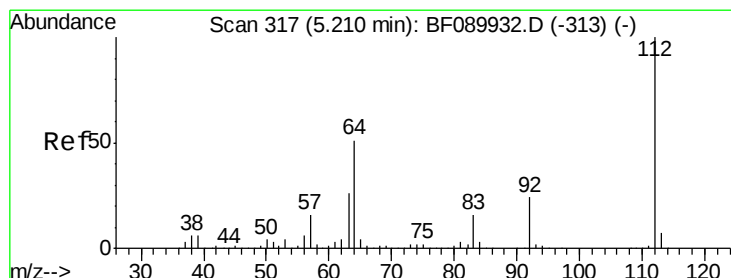
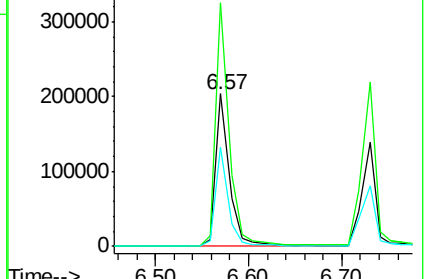
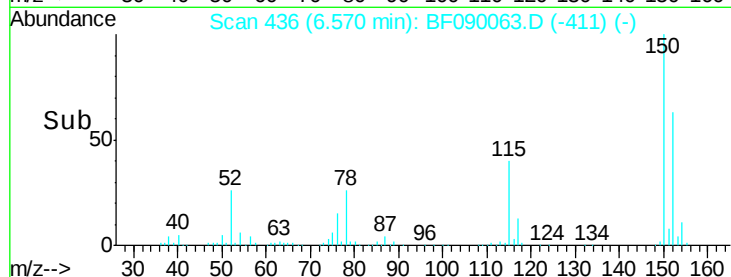
115 64.6 46.3 69.5



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: 20.31 ng

RT: 5.13 min Scan# 310

Delta R.T. -0.01 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

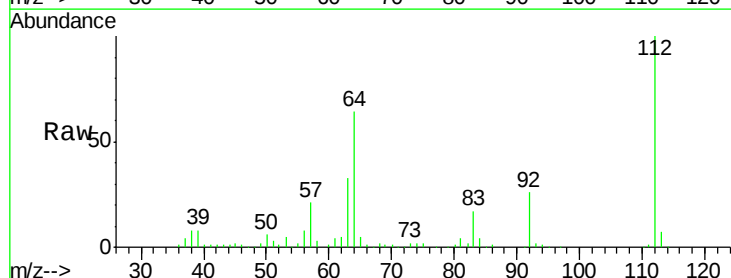
Tgt Ion:112 Resp: 264783

Ion Ratio Lower Upper

112 100

64 64.1 41.1 61.7#

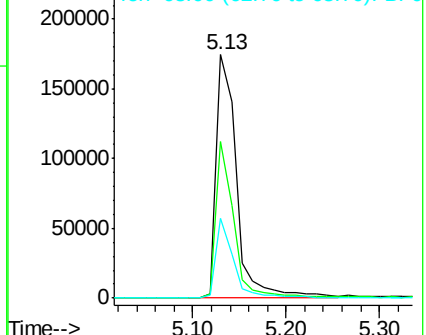
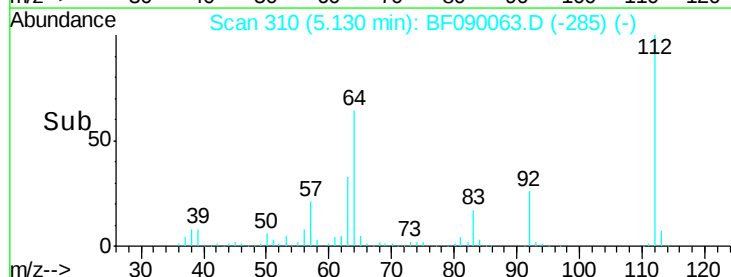
63 32.5 21.2 31.8#

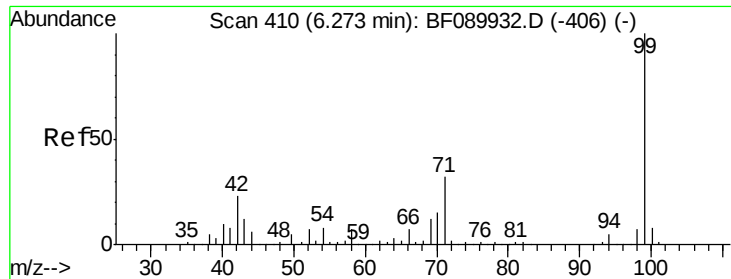


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 24.59 ng

RT: 6.22 min Scan# 405

Delta R.T. -0.01 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0DL

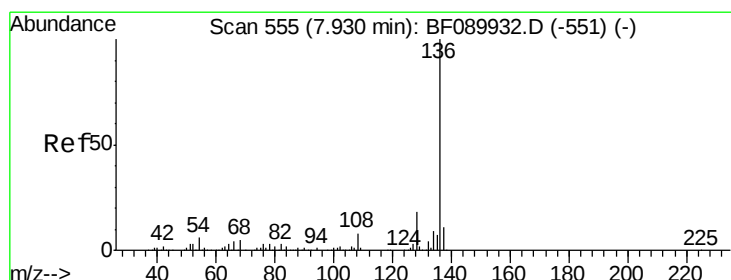
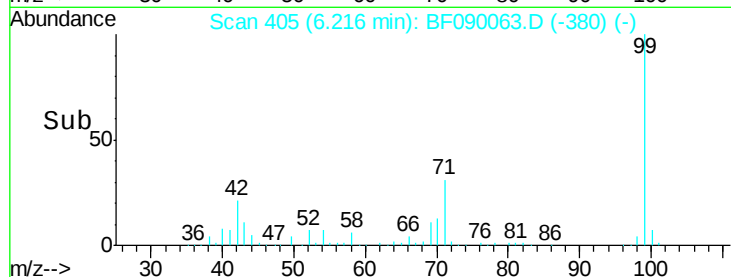
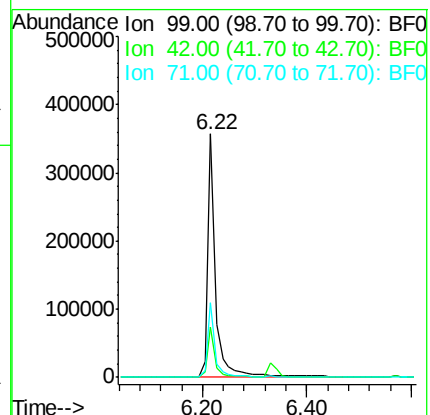
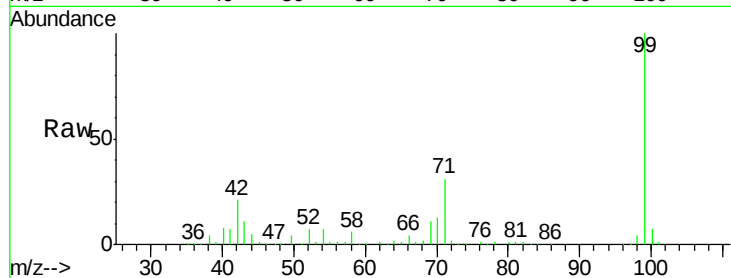
Tgt Ion: 99 Resp: 389477

Ion Ratio Lower Upper

99 100

42 20.9 18.6 27.8

71 30.8 25.8 38.6



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.86 min Scan# 549

Delta R.T. 0.00 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Tgt Ion: 136 Resp: 884660

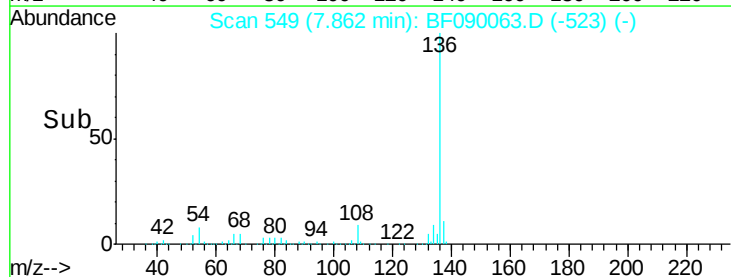
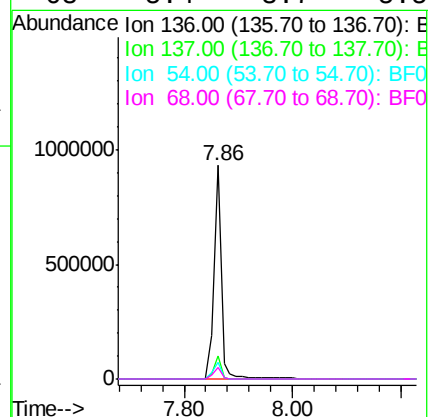
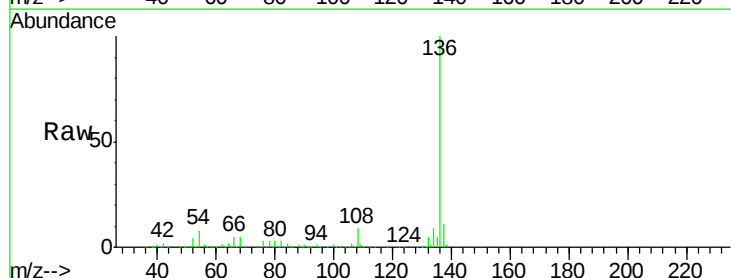
Ion Ratio Lower Upper

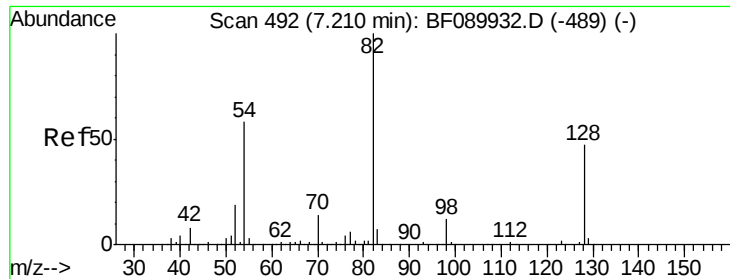
136 100

137 11.1 8.3 12.5

54 7.7 4.8 7.2#

68 5.4 3.7 5.5

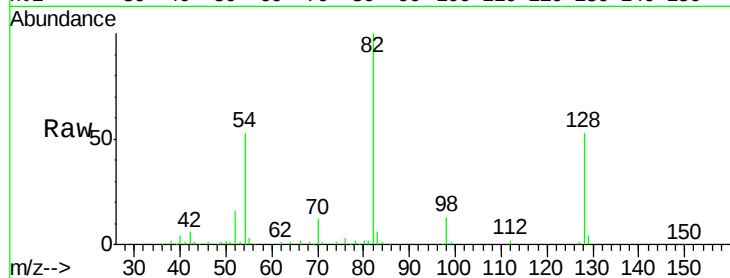




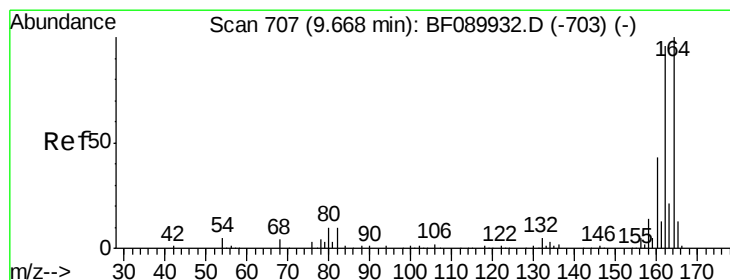
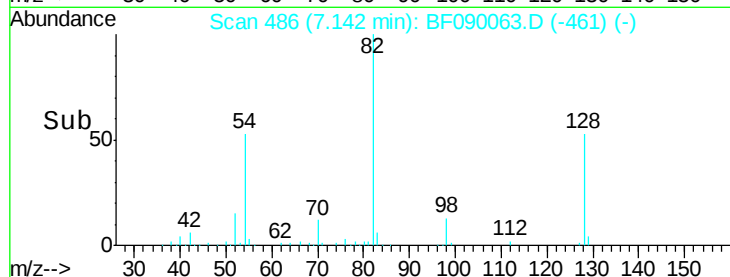
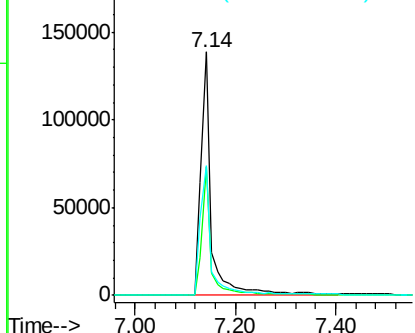
#23
 Nitrobenzene-d5
 Concen: 13.31 ng
 RT: 7.14 min Scan# 486
 Delta R.T. -0.01 min
 Lab File: BF090063.D
 Acq: 12 Sep 2016 15:07

Instrument :
 BNA_F
 ClientSampleId :
 SB-7-3.0-4.0DL

Tgt Ion: 82 Resp: 202984
 Ion Ratio Lower Upper
 82 100
 128 52.5 37.8 56.8
 54 53.4 46.9 70.3

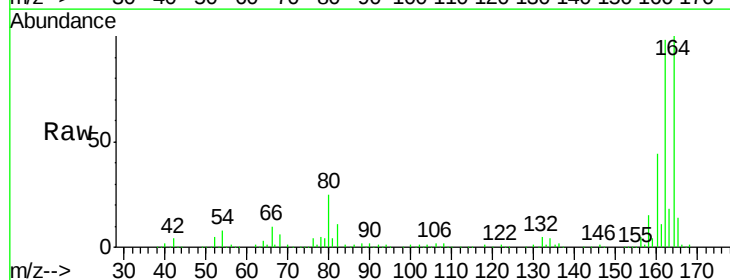


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

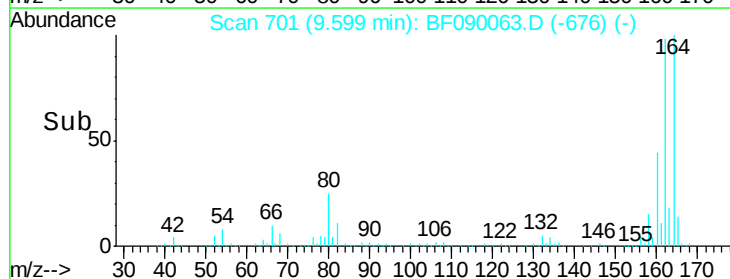
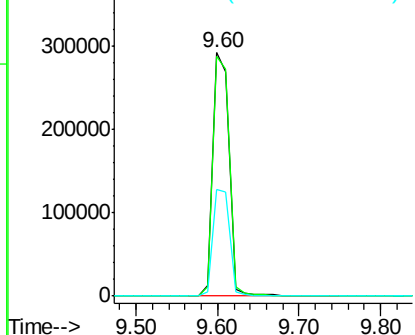


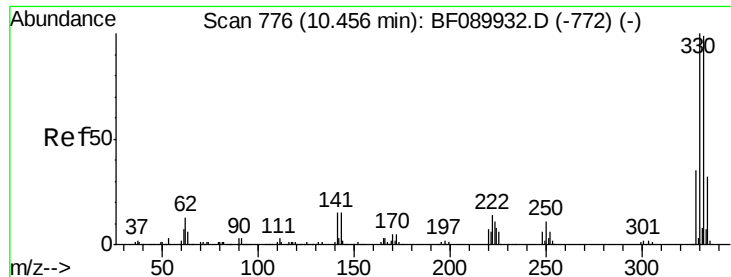
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.60 min Scan# 701
 Delta R.T. -0.01 min
 Lab File: BF090063.D
 Acq: 12 Sep 2016 15:07

Tgt Ion: 164 Resp: 409339
 Ion Ratio Lower Upper
 164 100
 162 98.2 77.1 115.7
 160 44.0 35.3 52.9



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

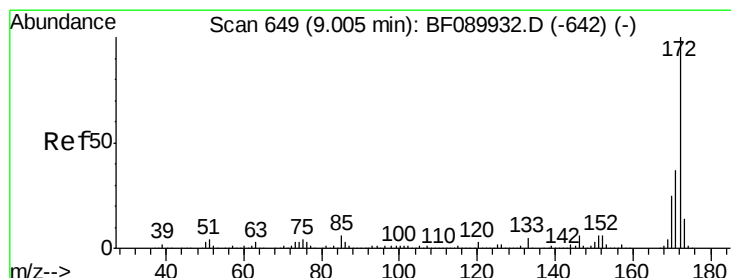
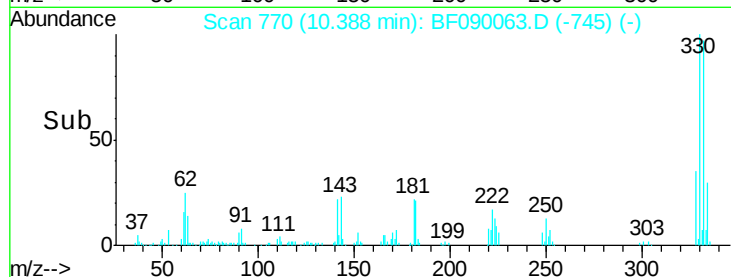
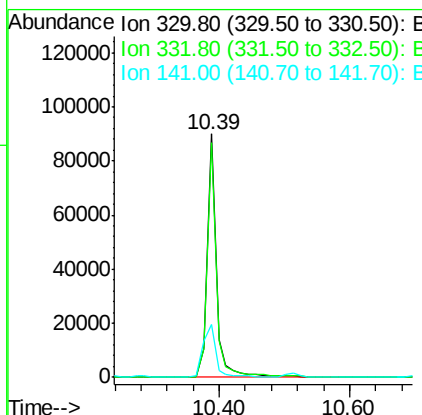
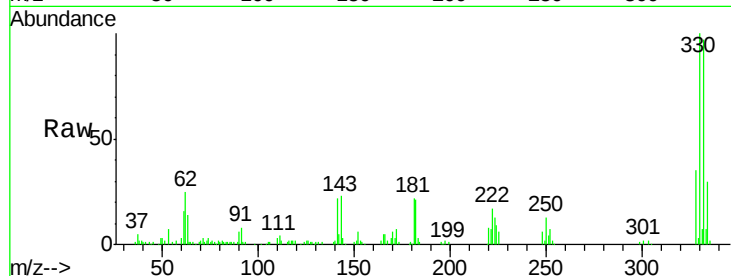




#41
 2,4,6-Tribromophenol
 Concen: 22.00 ng
 RT: 10.39 min Scan# 770
 Delta R.T. -0.01 min
 Lab File: BF090063.D
 Acq: 12 Sep 2016 15:07

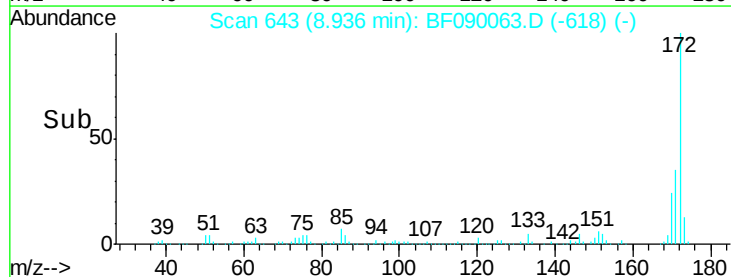
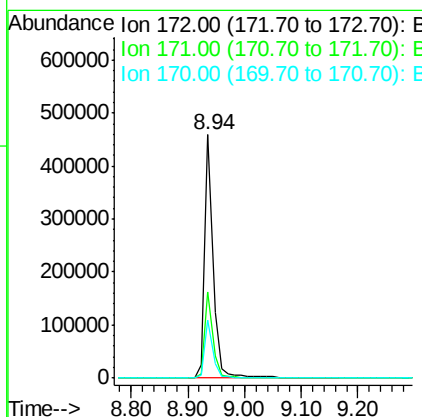
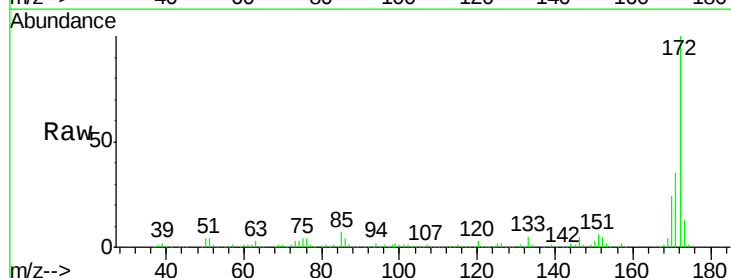
Instrument :
 BNA_F
 ClientSampleId :
 SB-7-3.0-4.0DL

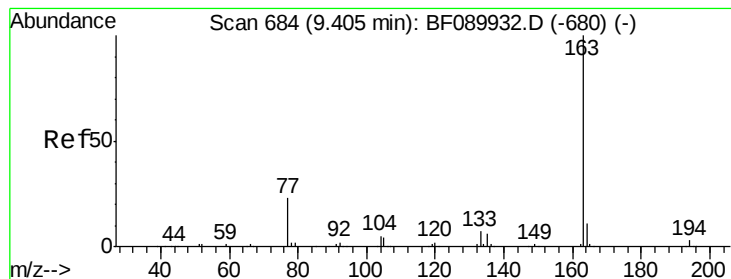
Tgt Ion:330 Resp: 88860
 Ion Ratio Lower Upper
 330 100
 332 96.5 78.6 117.8
 141 30.8 23.3 34.9



#44
 2-Fluorobiphenyl
 Concen: 18.50 ng
 RT: 8.94 min Scan# 643
 Delta R.T. -0.01 min
 Lab File: BF090063.D
 Acq: 12 Sep 2016 15:07

Tgt Ion:172 Resp: 461406
 Ion Ratio Lower Upper
 172 100
 171 35.5 29.4 44.2
 170 24.0 20.1 30.1





#49

Dimethylphthalate

Concen: 5.02 ng

RT: 9.34 min Scan# 678

Delta R.T. -0.02 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0DL

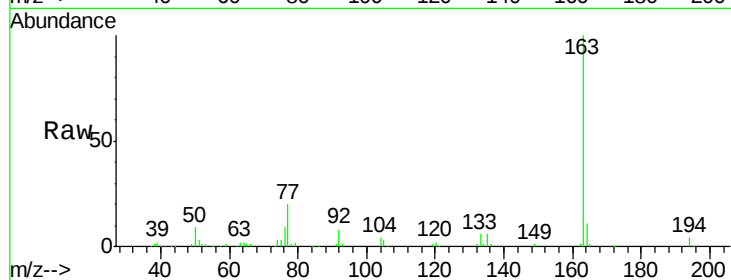
Tgt Ion:163 Resp: 148666

Ion Ratio Lower Upper

163 100

194 3.6 2.7 4.1

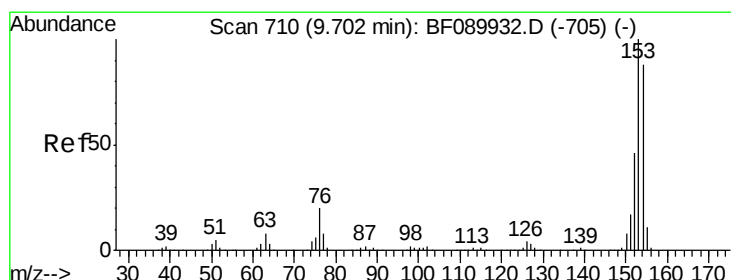
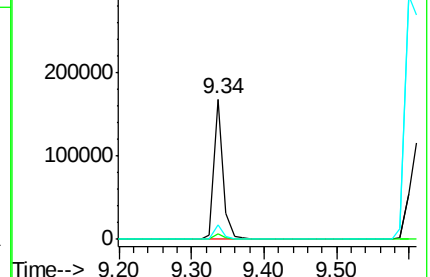
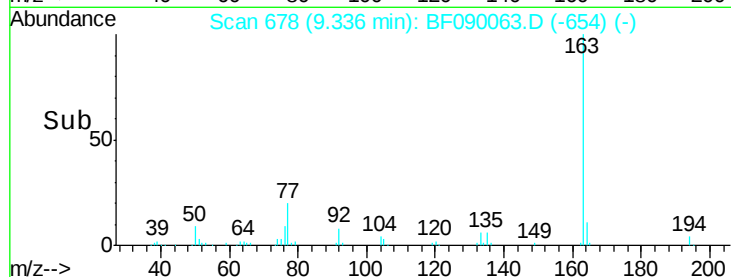
164 10.5 9.0 13.4



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



#51

Acenaphthene

Concen: 6.34 ng

RT: 9.63 min Scan# 704

Delta R.T. -0.01 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

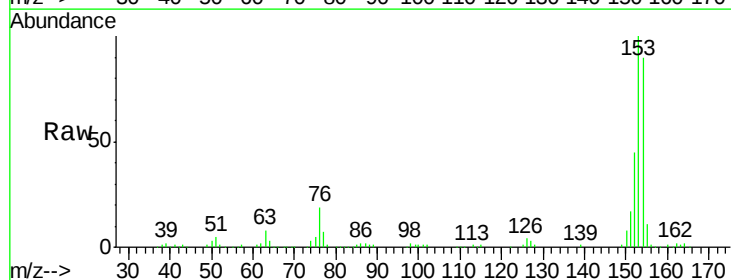
Tgt Ion:154 Resp: 154898

Ion Ratio Lower Upper

154 100

153 110.5 90.6 135.8

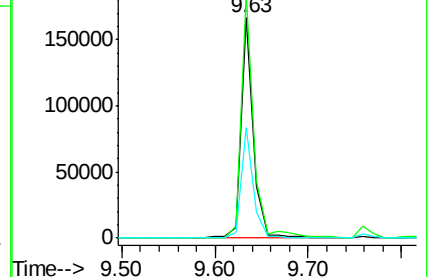
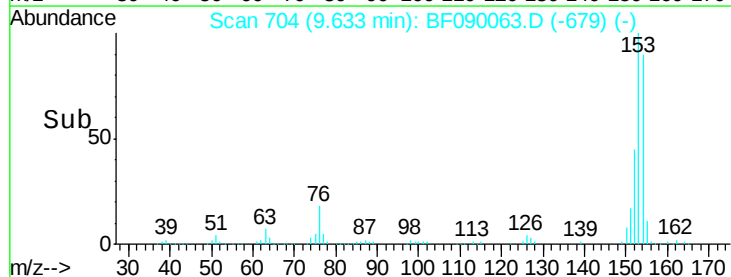
152 49.9 42.4 63.6

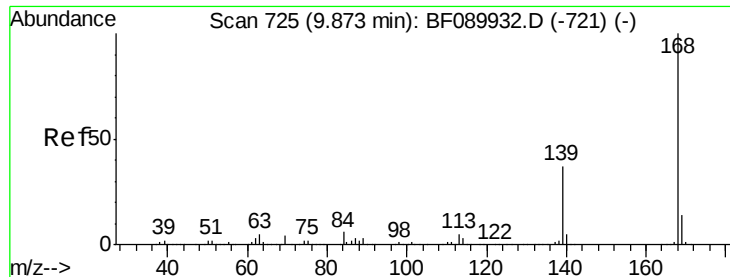


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

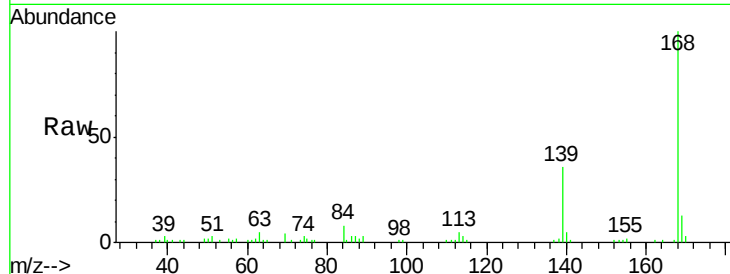




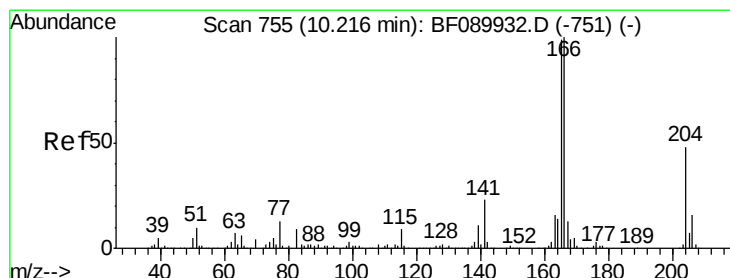
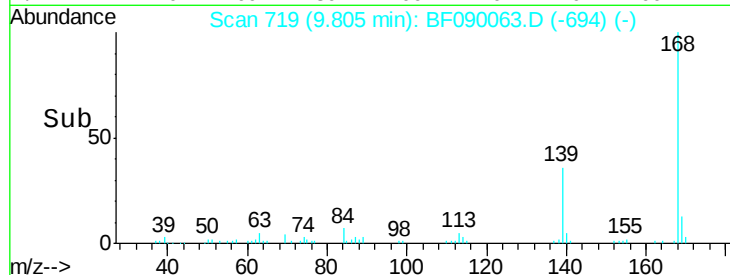
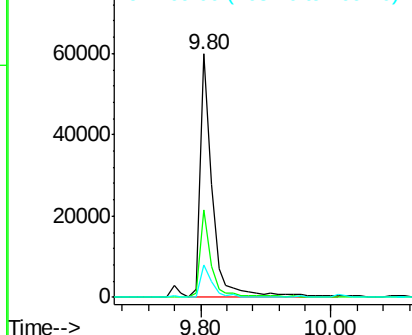
#54
Dibenzenofuran
Concen: 2.37 ng
RT: 9.80 min Scan# 719
Delta R.T. -0.01 min
Lab File: BF090063.D
Acq: 12 Sep 2016 15:07

Instrument :
BNA_F
ClientSampleId :
SB-7-3.0-4.0DL

Tgt Ion:168 Resp: 77588
Ion Ratio Lower Upper
168 100
139 36.1 29.5 44.3
169 13.3 10.8 16.2

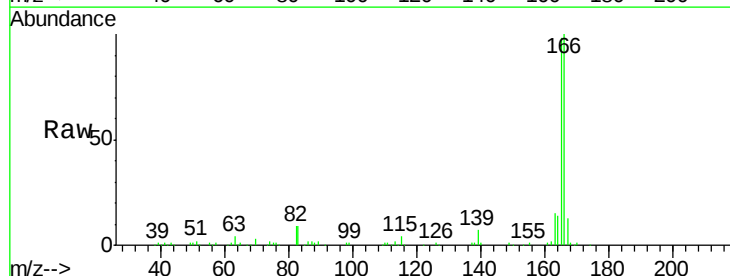


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

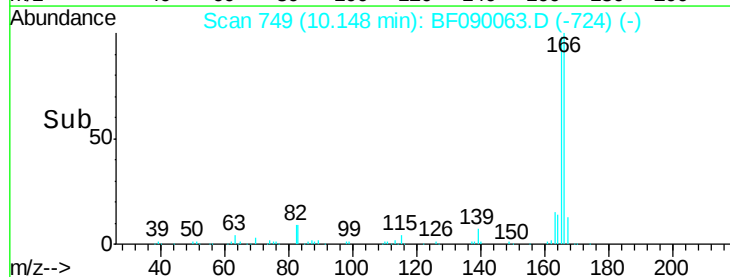
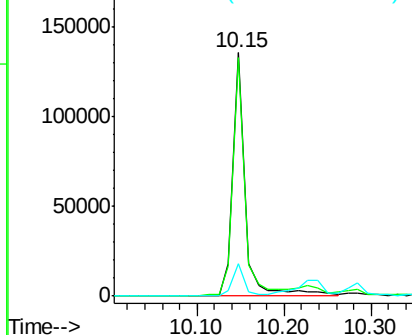


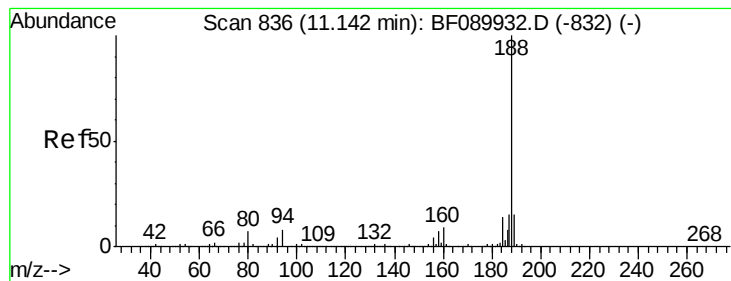
#57
Fluorene
Concen: 5.66 ng
RT: 10.15 min Scan# 749
Delta R.T. -0.01 min
Lab File: BF090063.D
Acq: 12 Sep 2016 15:07

Tgt Ion:166 Resp: 135386
Ion Ratio Lower Upper
166 100
165 97.7 78.6 118.0
167 13.3 10.6 15.8



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: 11.07 min Scan# 830

Delta R.T. -0.01 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0DL

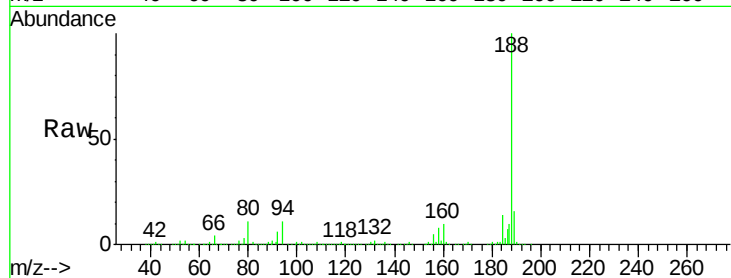
Tgt Ion:188 Resp: 801523

Ion Ratio Lower Upper

188 100

94 10.7 5.9 8.9#

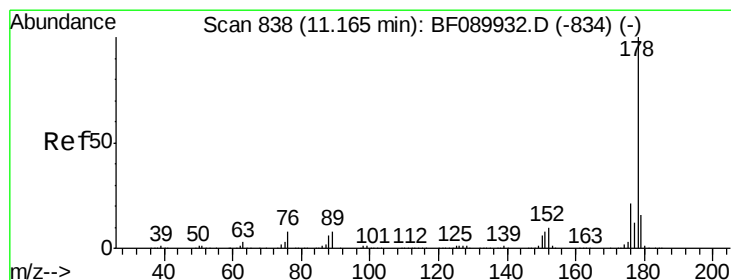
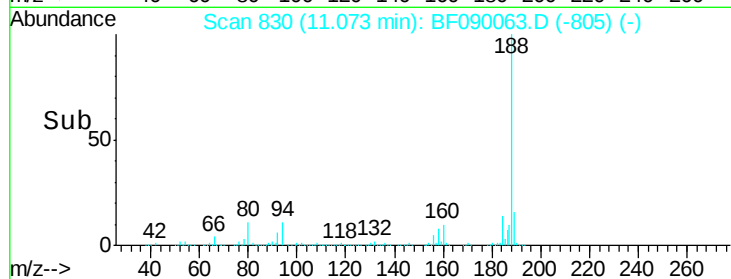
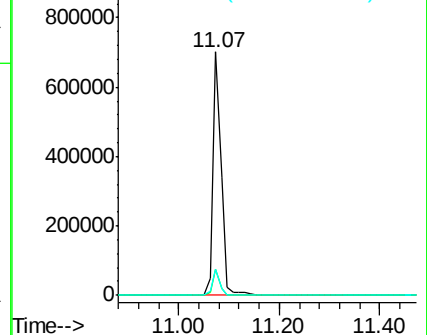
80 10.9 5.8 8.8#



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: 44.80 ng

RT: 11.11 min Scan# 833

Delta R.T. -0.00 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

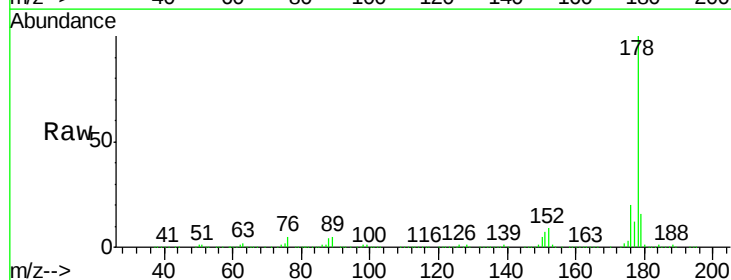
Tgt Ion:178 Resp: 1787979

Ion Ratio Lower Upper

178 100

176 20.3 16.5 24.7

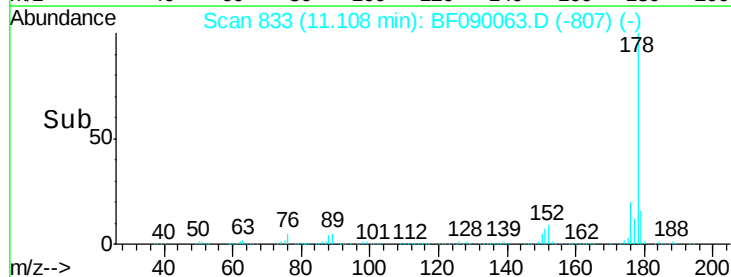
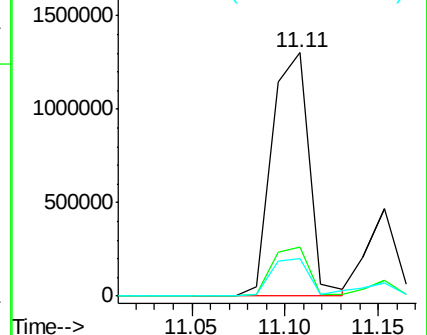
179 15.6 12.8 19.2

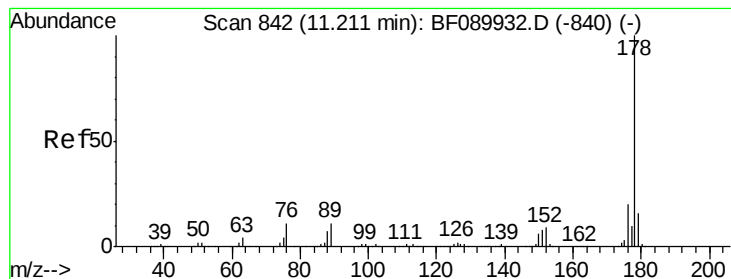


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 13.93 ng

RT: 11.15 min Scan# 837

Delta R.T. -0.00 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0DL

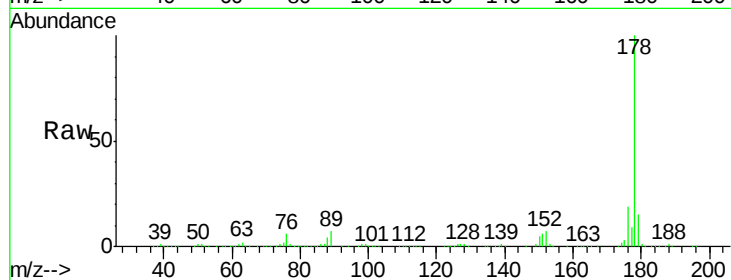
Tgt Ion:178 Resp: 563733

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.8

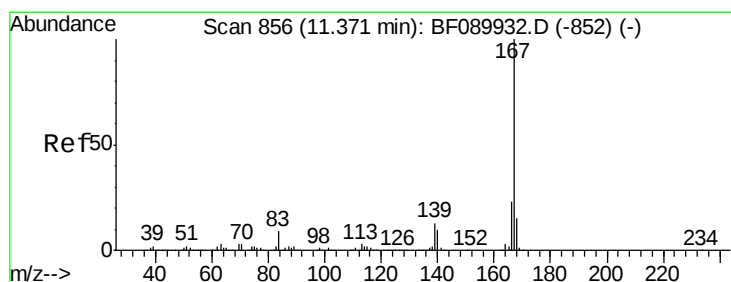
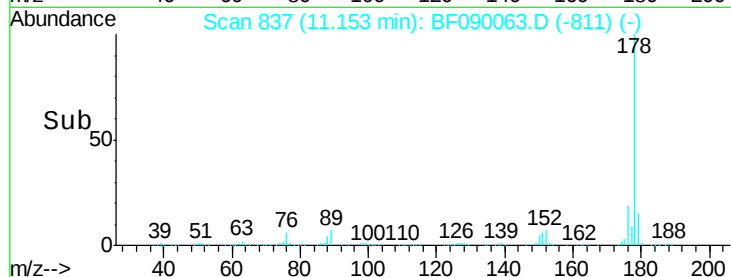
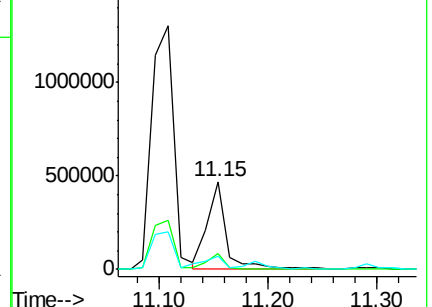
179 15.3 13.0 19.4



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: 7.17 ng

RT: 11.31 min Scan# 851

Delta R.T. -0.00 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

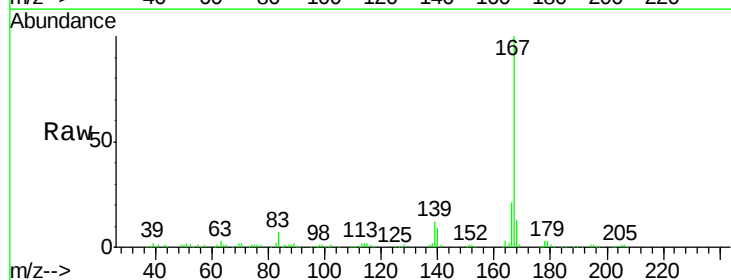
Tgt Ion:167 Resp: 272341

Ion Ratio Lower Upper

167 100

166 21.4 18.1 27.1

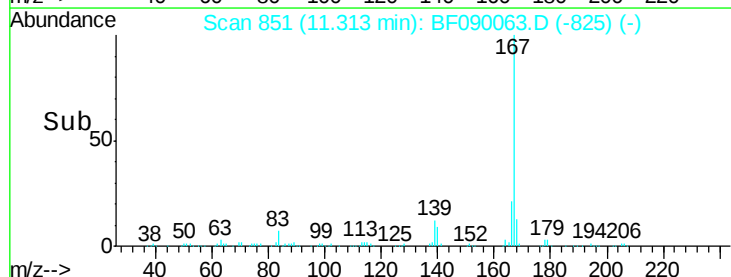
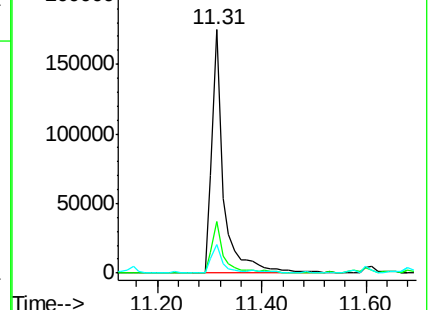
139 11.9 10.4 15.6

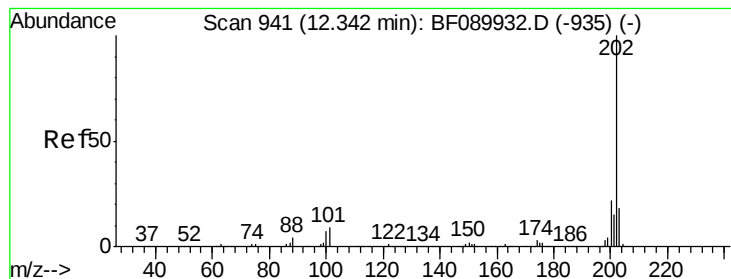


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 62.14 ng

RT: 12.28 min Scan# 936

Delta R.T. -0.00 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0DL

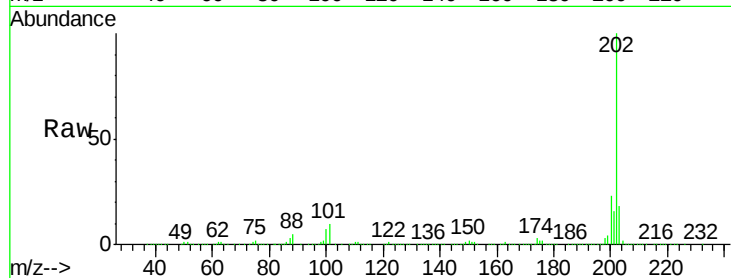
Tgt Ion:202 Resp: 2599242

Ion Ratio Lower Upper

202 100

101 10.0 0.0 28.5

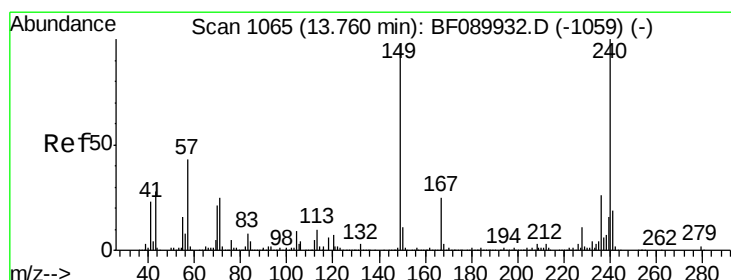
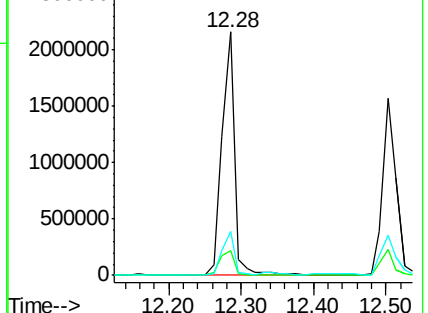
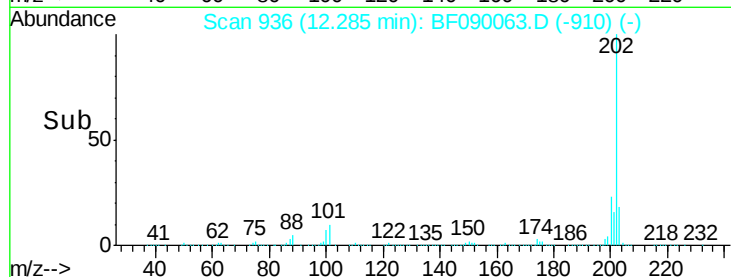
203 18.3 0.0 38.0



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: 13.69 min Scan# 1059

Delta R.T. 0.00 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

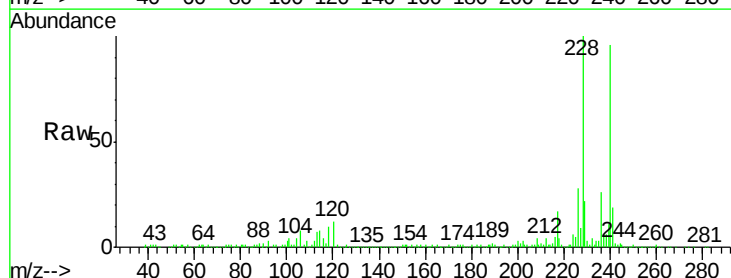
Tgt Ion:240 Resp: 477228

Ion Ratio Lower Upper

240 100

120 12.6 5.7 8.5#

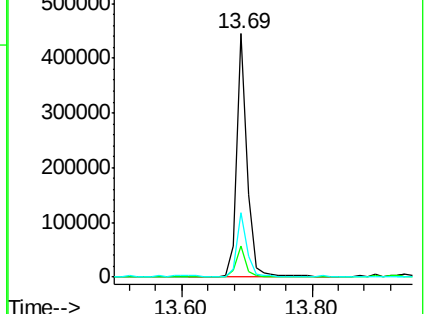
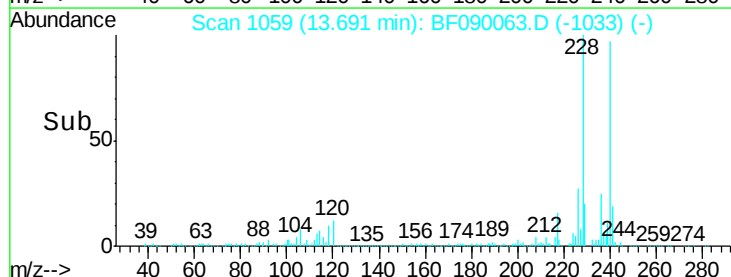
236 26.6 21.3 31.9

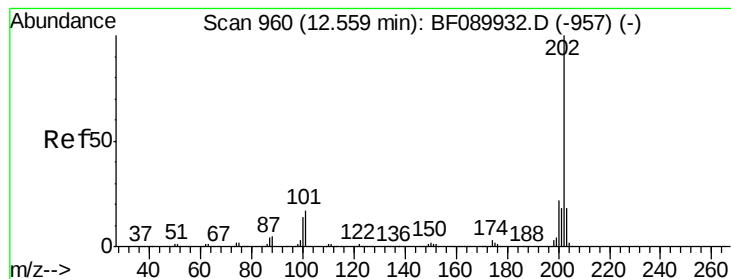


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 60.11 ng m

RT: 12.50 min Scan# 955

Delta R.T. -0.00 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0DL

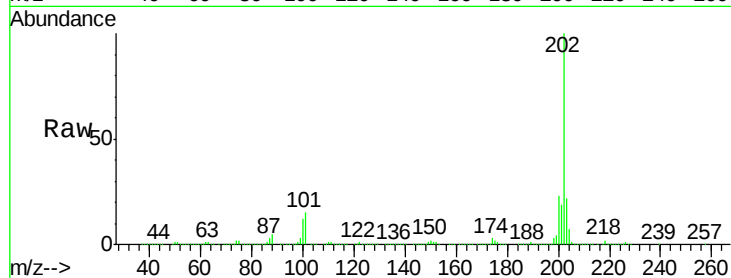
Tgt Ion:202 Resp: 2022567

Ion Ratio Lower Upper

202 100

200 22.8 17.6 26.4

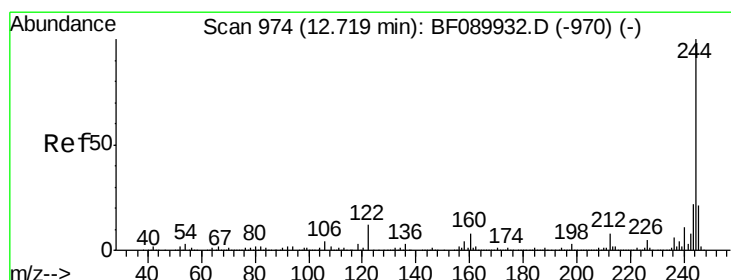
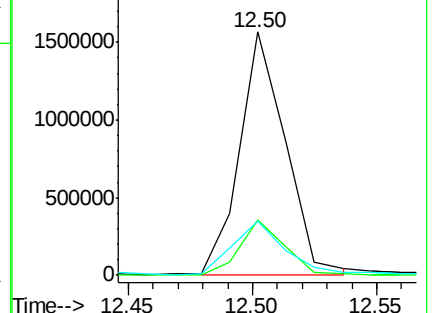
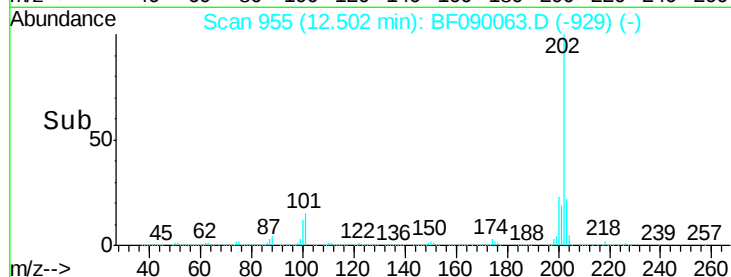
203 22.4 14.6 21.8#



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: 20.24 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.01 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

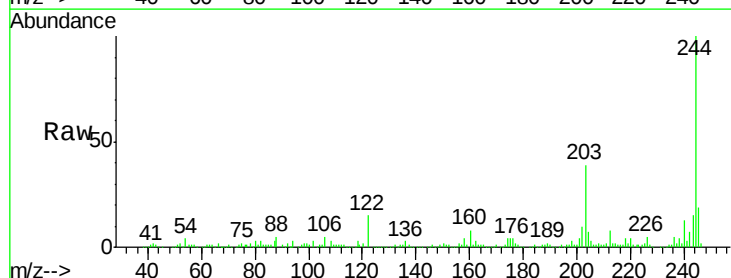
Tgt Ion:244 Resp: 391045

Ion Ratio Lower Upper

244 100

212 7.6 6.1 9.1

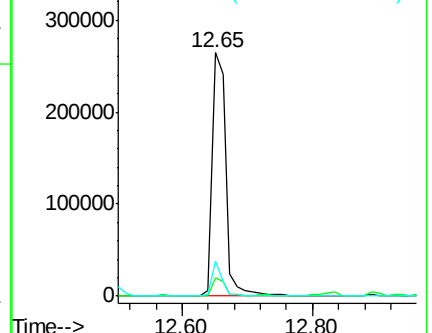
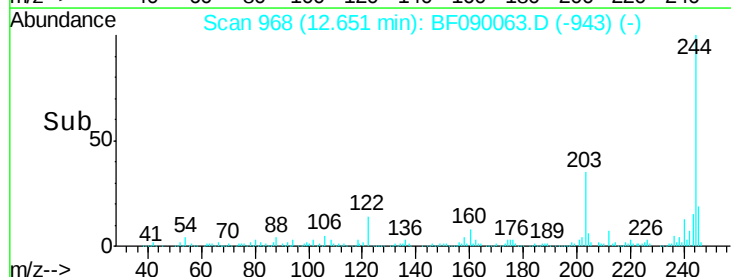
122 14.6 9.6 14.4#

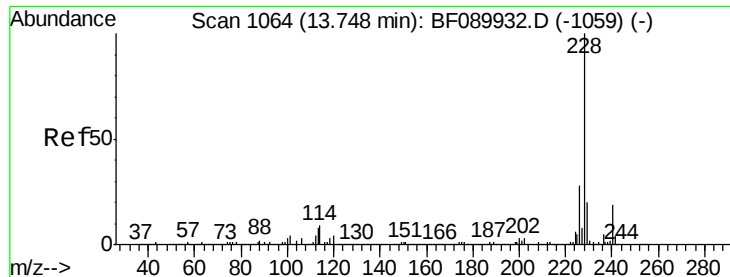


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 39.18 ng

RT: 13.68 min Scan# 1058

Delta R.T. -0.00 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0DL

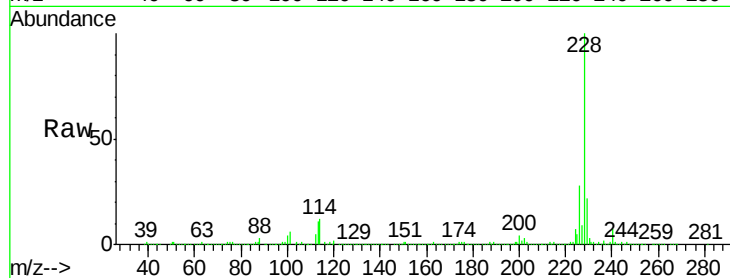
Tgt Ion:228 Resp: 1145282

Ion Ratio Lower Upper

228 100

226 28.0 22.2 33.2

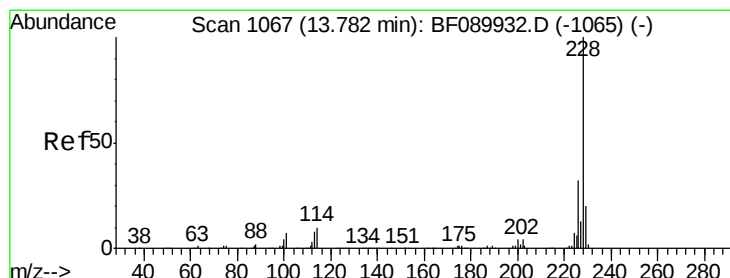
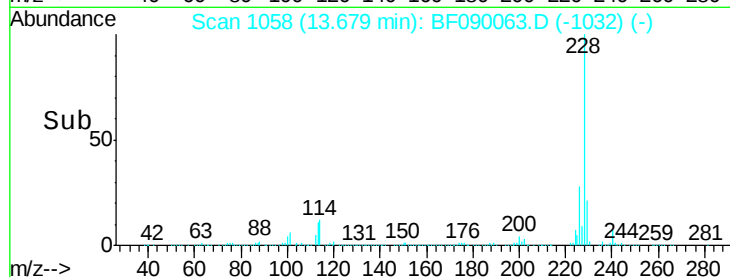
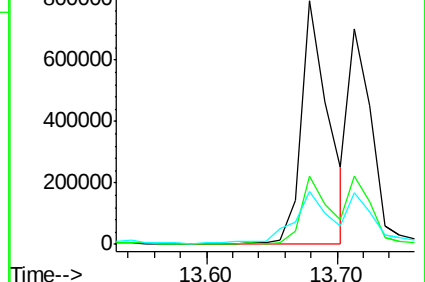
229 21.8 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 31.63 ng m

RT: 13.71 min Scan# 1061

Delta R.T. -0.01 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

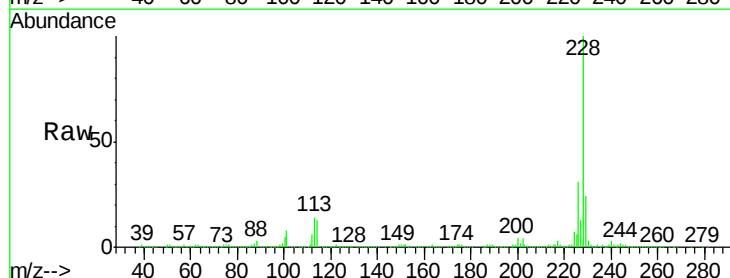
Tgt Ion:228 Resp: 863746

Ion Ratio Lower Upper

228 100

226 31.4 25.2 37.8

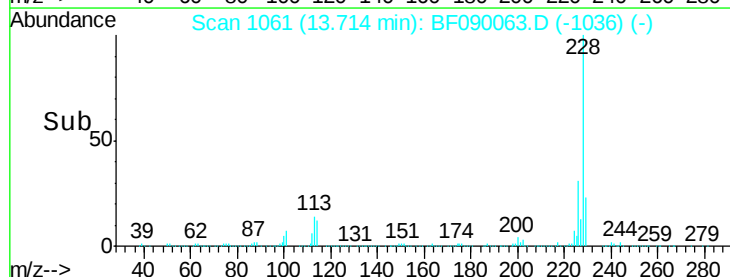
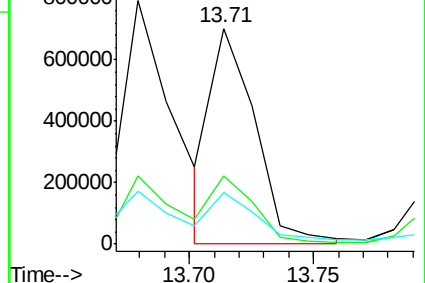
229 23.9 16.2 24.2

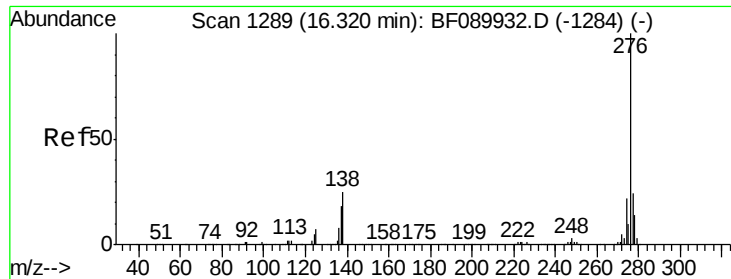


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

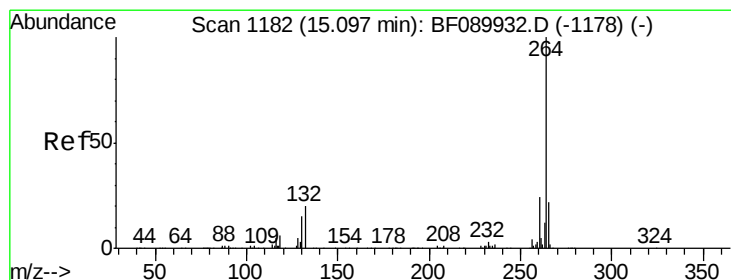
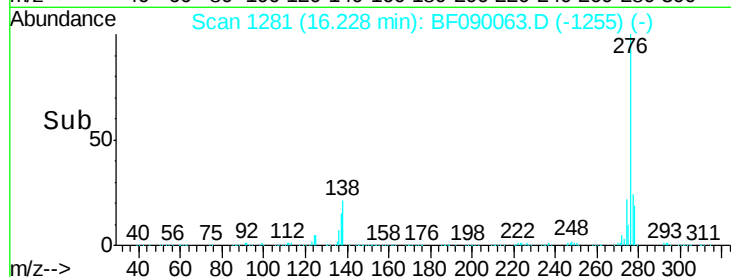
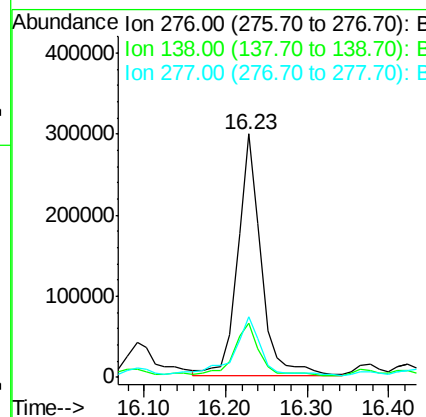
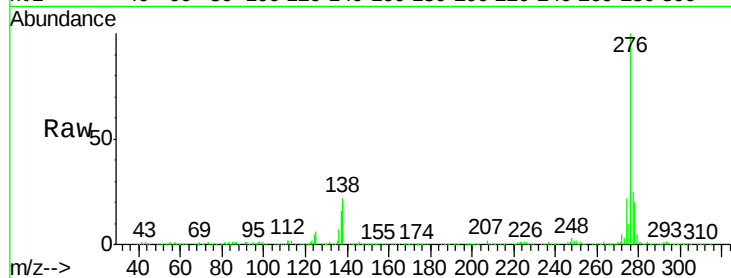




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 29.26 ng
 RT: 16.23 min Scan# 1281
 Delta R.T. -0.00 min
 Lab File: BF090063.D
 Acq: 12 Sep 2016 15:07

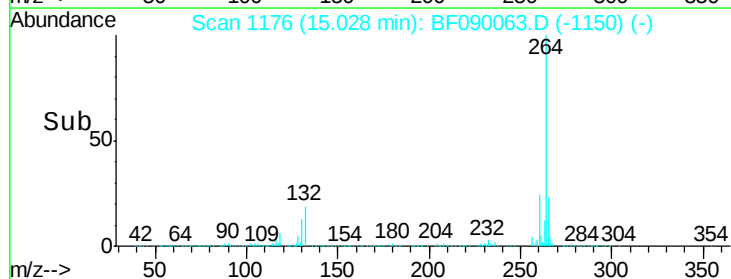
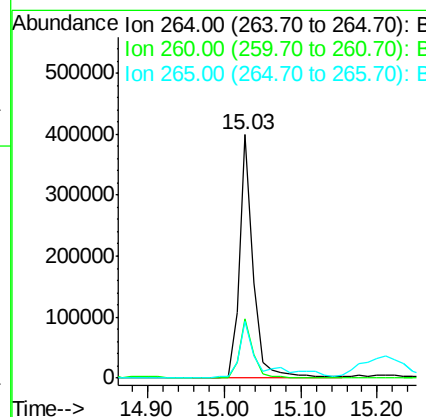
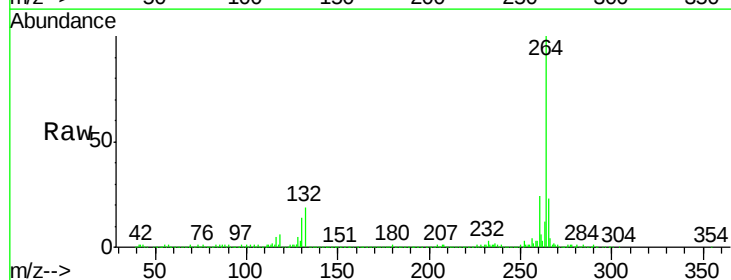
Instrument :
 BNA_F
 ClientSampleId :
 SB-7-3.0-4.0DL

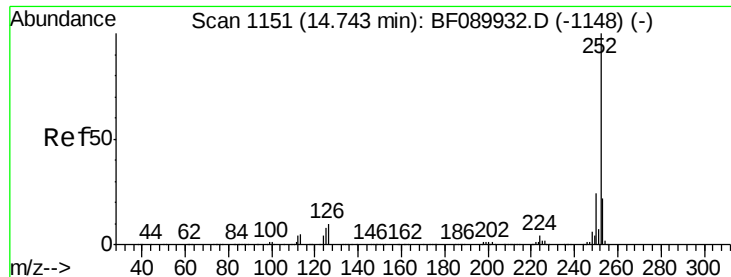
Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.7	22.6	34.0
277	25.5	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.03 min Scan# 1176
 Delta R.T. -0.00 min
 Lab File: BF090063.D
 Acq: 12 Sep 2016 15:07

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.0
265	23.1	17.4	26.2





#87

Benzo(b)fluoranthene

Concen: 32.98 ng m

RT: 14.67 min Scan# 1145

Delta R.T. -0.00 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0DL

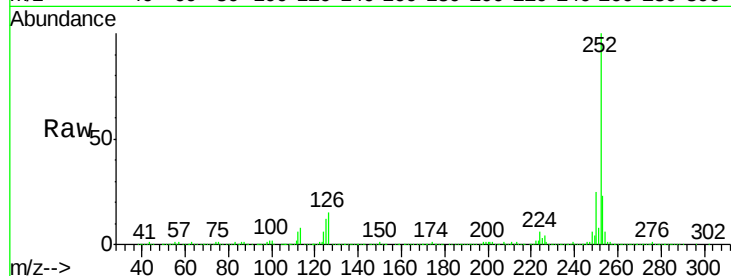
Tgt Ion:252 Resp: 1039208

Ion Ratio Lower Upper

252 100

253 23.2 18.0 27.0

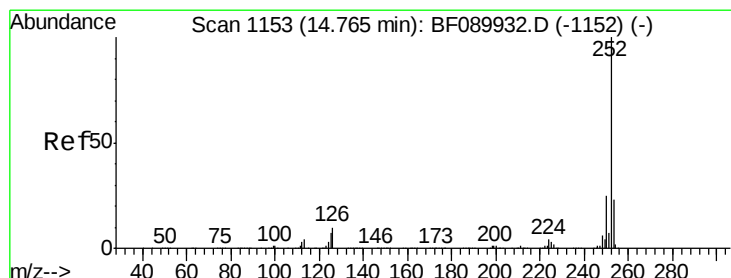
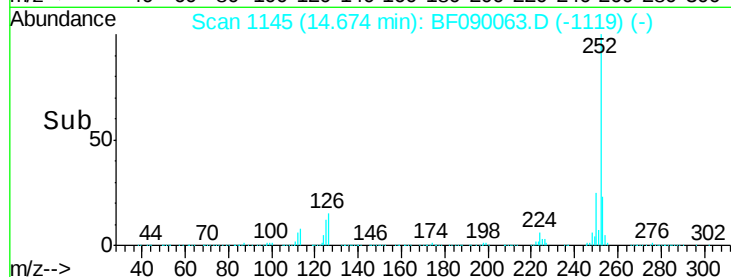
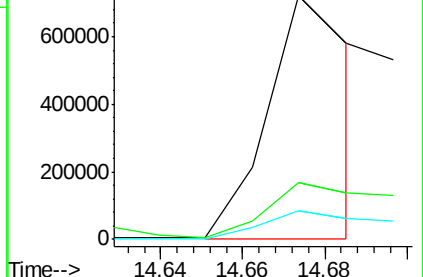
125 11.8 5.7 8.5#



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: 18.03 ng m

RT: 14.69 min Scan# 1146

Delta R.T. -0.01 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

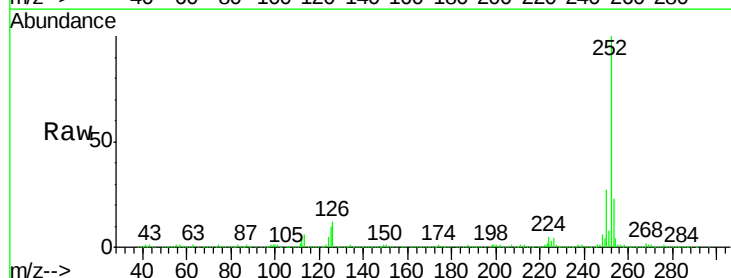
Tgt Ion:252 Resp: 482018

Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.8

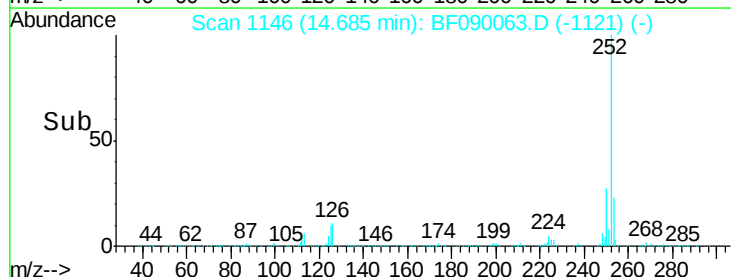
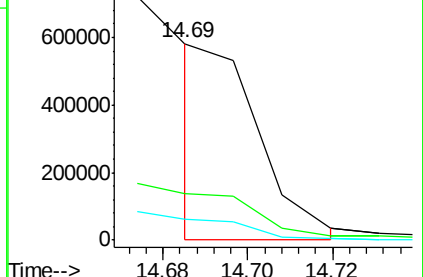
125 10.4 7.3 10.9

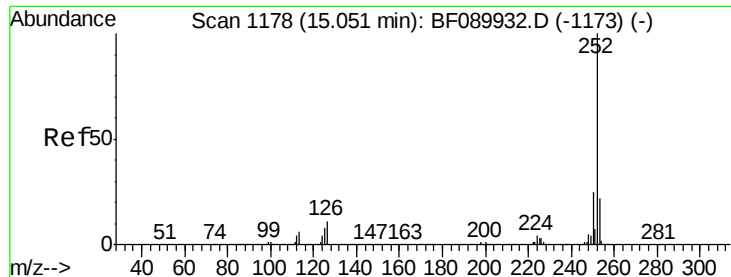


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

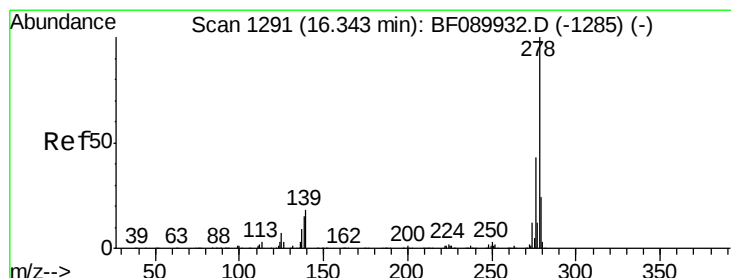
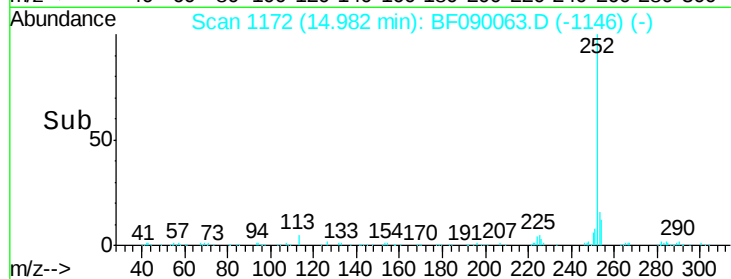
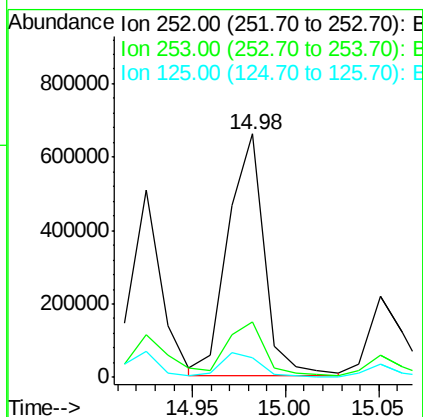
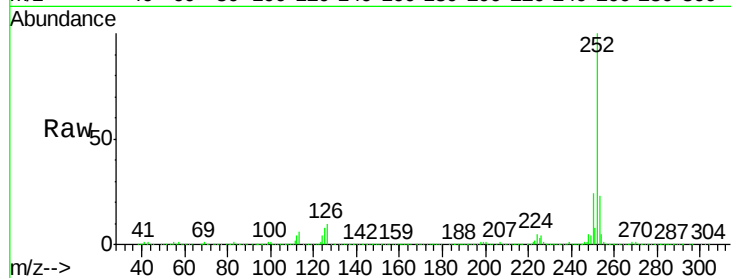




#89
Benzo(a)pyrene
Concen: 33.15 ng
RT: 14.98 min Scan# 1172
Delta R.T. -0.00 min
Lab File: BF090063.D
Acq: 12 Sep 2016 15:07

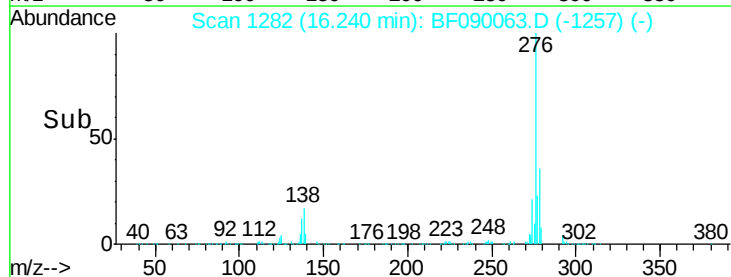
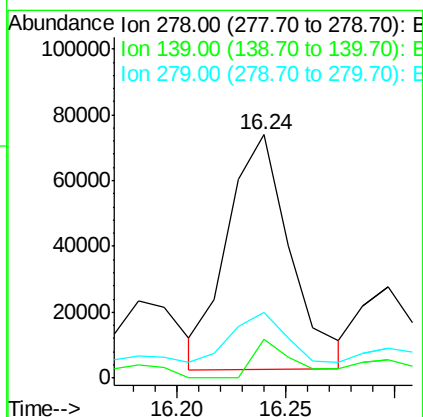
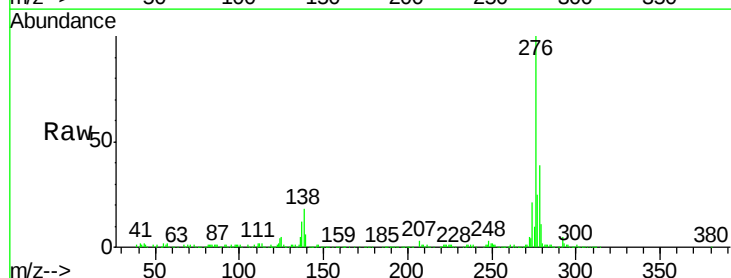
Instrument :
BNA_F
ClientSampleId :
SB-7-3.0-4.0DL

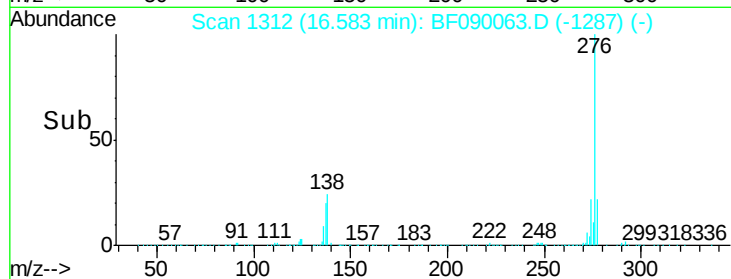
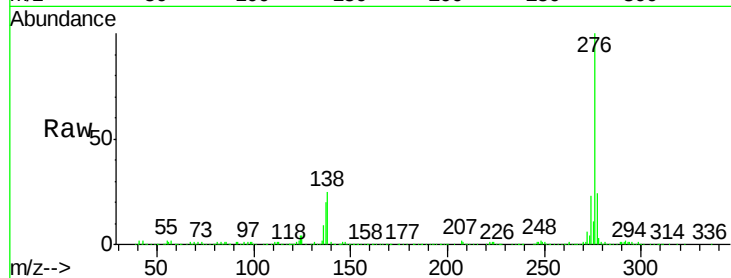
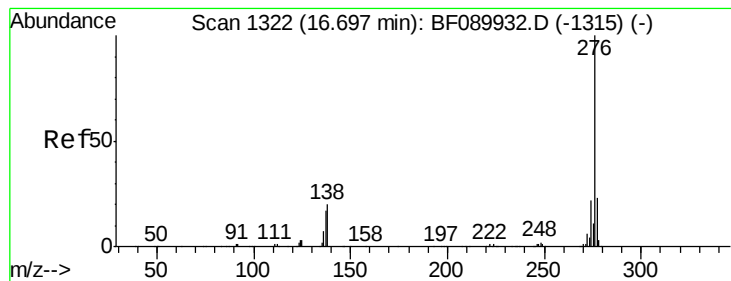
Tgt Ion:252 Resp: 894946
Ion Ratio Lower Upper
252 100
253 22.6 17.5 26.3
125 7.8 6.3 9.5



#90
Dibenzo(a,h)anthracene
Concen: 7.25 ng
RT: 16.24 min Scan# 1282
Delta R.T. -0.01 min
Lab File: BF090063.D
Acq: 12 Sep 2016 15:07

Tgt Ion:278 Resp: 143471
Ion Ratio Lower Upper
278 100
139 15.8 13.4 20.2
279 27.2 19.4 29.2





#91

Benzo(g,h,i)perylene

Concen: 26.31 ng

RT: 16.58 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BF090063.D

Acq: 12 Sep 2016 15:07

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0DL

Tgt Ion: 276 Resp: 523887

Ion Ratio Lower Upper

276 100

277 23.6 19.0 28.4

138 25.0 16.4 24.6#

