

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122016\
 Data File : BF091808.D
 Acq On : 20 Dec 2016 9:47
 Operator : UM/SJ
 Sample : H6125-01DL 2X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-49(11-13)-12-14-16DL

Quant Time: Dec 20 23:57:28 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 17 22:53:54 2016
 Response via : Initial Calibration

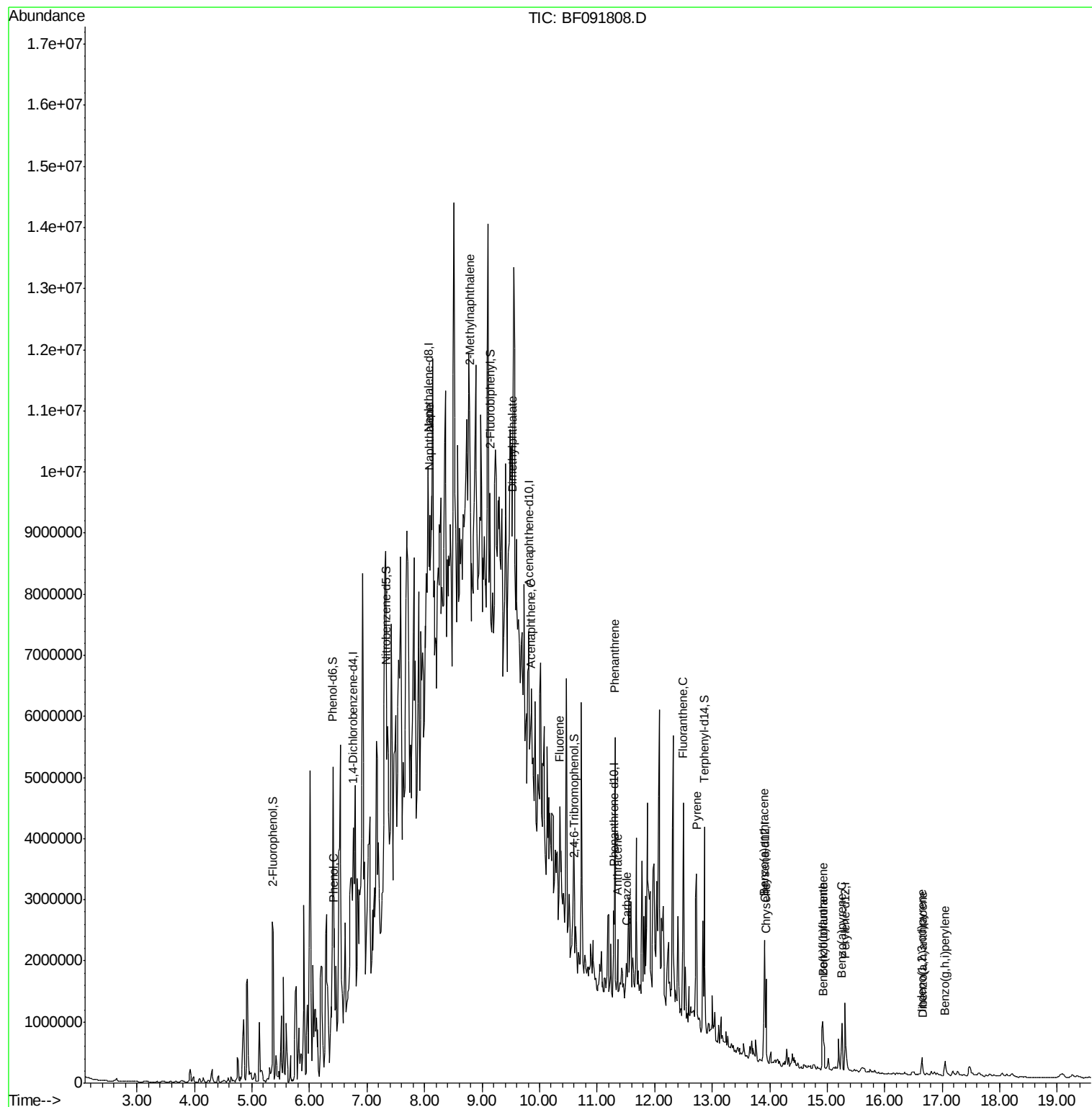
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	190902	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	591576	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	326600	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	706023	20.00	ng	0.00
75) Chrysene-d12	13.92	240	622944	20.00	ng	-0.01
86) Perylene-d12	15.31	264	489911	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	1070350	93.94	ng	0.00
7) Phenol-d6	6.41	99	1202823	86.56	ng	-0.01
23) Nitrobenzene-d5	7.33	82	874073	85.21	ng	-0.01
41) 2,4,6-Tribromophenol	10.60	330	283637	102.42	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	1044481	64.25	ng	0.00
78) Terphenyl-d14	12.87	244	1077152	43.66	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.42	94	89719	5.73	ng	83
31) Naphthalene	8.09	128	1459447	51.64	ng	# 94
37) 2-Methylnaphthalene	8.78	142	2394418	134.39	ng	99
49) Dimethylphthalate	9.53	163	189600	8.89	ng	# 72
51) Acenaphthene	9.85	154	151277	8.13	ng	# 84
57) Fluorene	10.35	166	240863	14.02	ng	# 85
70) Phenanthrene	11.31	178	1614680	45.77	ng	99
71) Anthracene	11.36	178	400807	10.73	ng	98
72) Carbazole	11.52	167	113407	3.47	ng	92
74) Fluoranthene	12.50	202	1463390	39.72	ng	97
77) Pyrene	12.73	202	1531345	34.04	ng	100
80) Benzo(a)anthracene	13.91	228	592133	16.62	ng	100
82) Chrysene	13.94	228	548974m	14.86	ng	
85) Indeno(1,2,3-cd)pyrene	16.65	276	186716	5.14	ng	93
87) Benzo(b)fluoranthene	14.92	252	525235m	16.91	ng	
88) Benzo(k)fluoranthene	14.93	252	137017m	6.29	ng	
89) Benzo(a)pyrene	15.25	252	362999	13.61	ng	99
90) Dibenzo(a,h)anthracene	16.66	278	47312	2.04	ng	97
91) Benzo(a,h,i)perylene	17.05	276	187757	7.95	ng	97

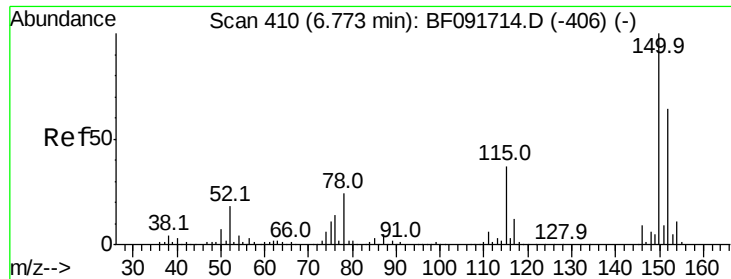
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.76 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

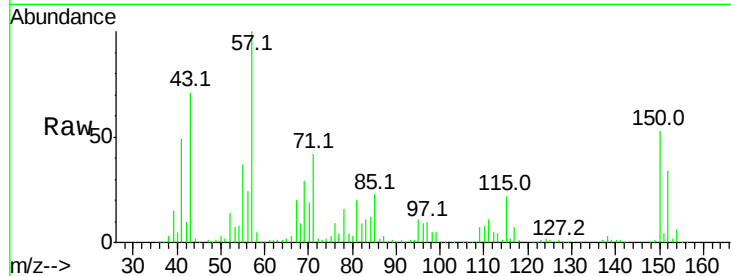
Tot Ion:152 Resp: 190902

Ion Ratio Lower Upper

152 100

150 158.4 124.9 187.3

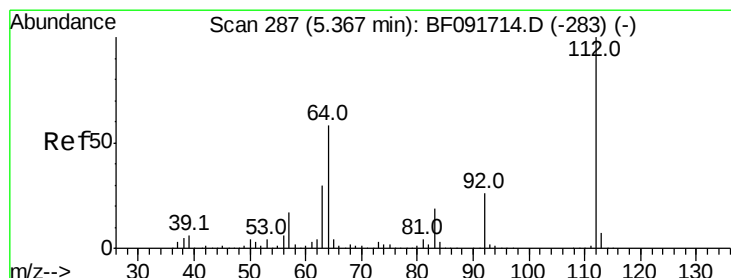
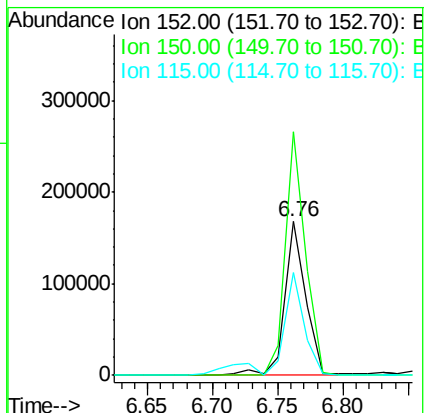
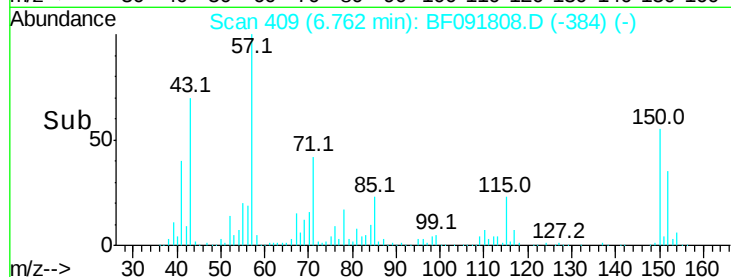
115 66.9 46.0 69.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 93.94 ng

RT: 5.37 min Scan# 287

Delta R.T. 0.00 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

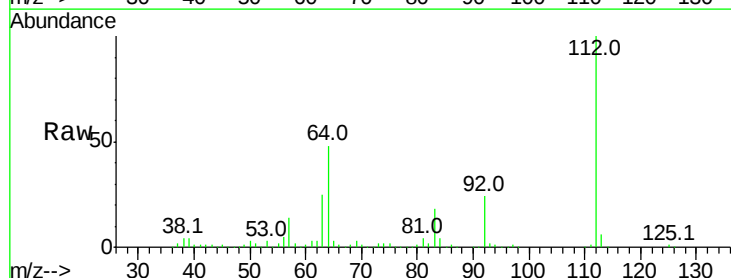
Tgt Ion:112 Resp: 1070350

Ion Ratio Lower Upper

112 100

64 48.2 46.1 69.1

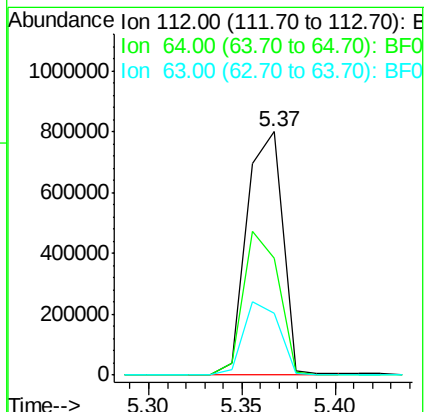
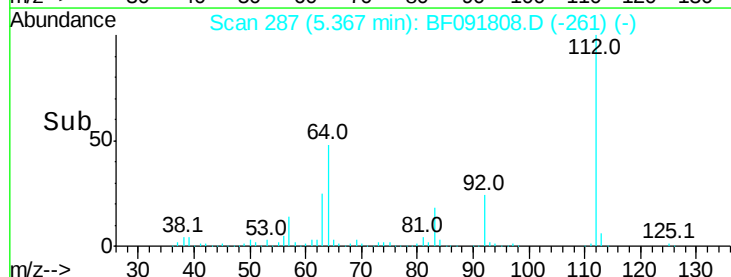
63 25.2 23.8 35.6

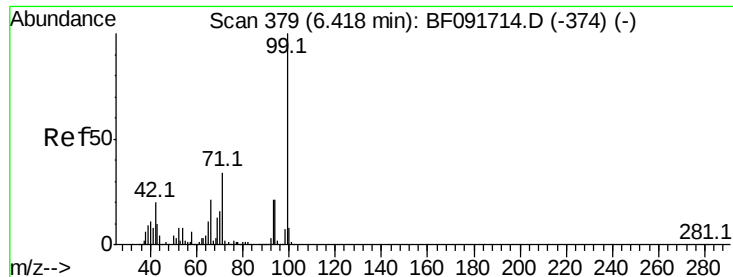


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 86.56 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

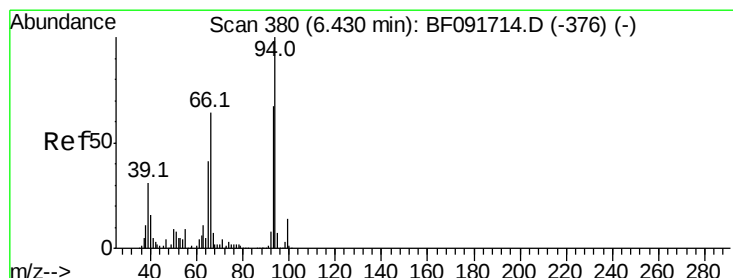
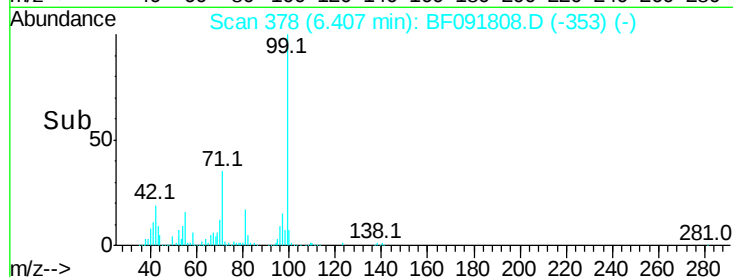
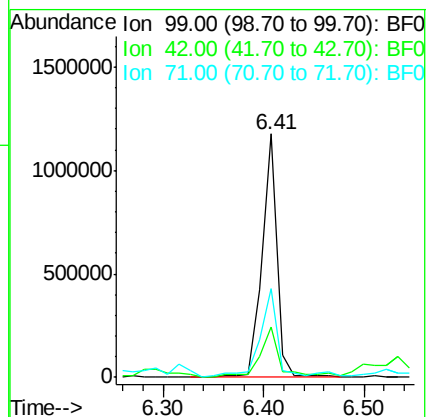
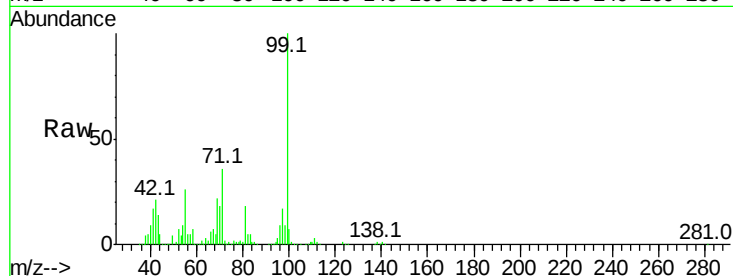
Tot Ion: 99 Resp: 1202823

Ion Ratio Lower Upper

99 100

42 20.8 15.6 23.4

71 36.3 27.5 41.3



#10

Phenol

Concen: 5.73 ng

RT: 6.42 min Scan# 379

Delta R.T. -0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

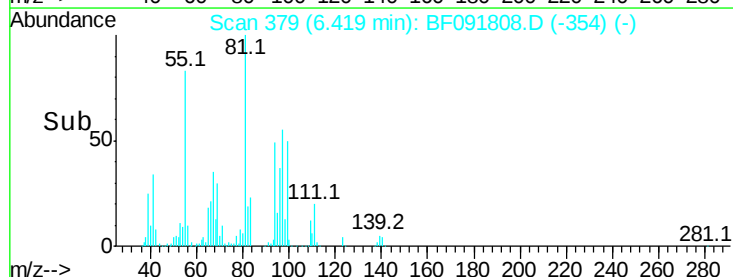
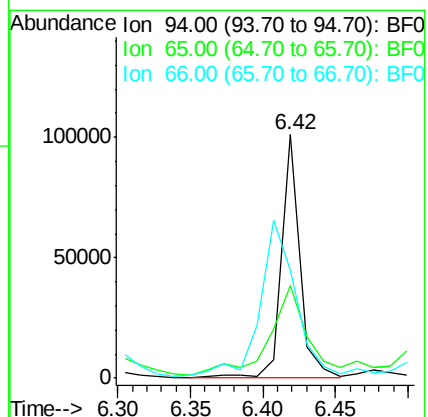
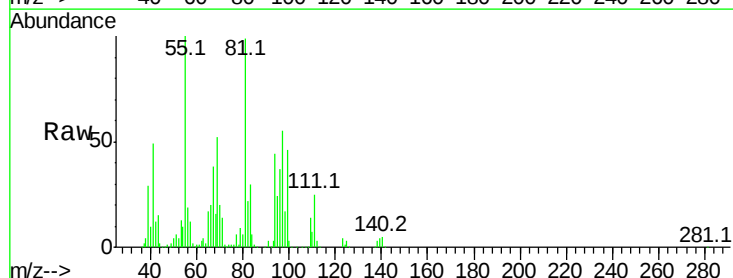
Tgt Ion: 94 Resp: 89719

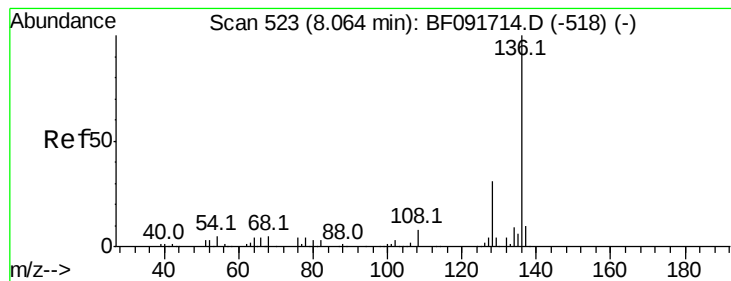
Ion Ratio Lower Upper

94 100

65 38.0 21.4 61.4

66 44.3 44.0 84.0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 523

Delta R.T. 0.00 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

Tot Ion:136 Resp: 591576

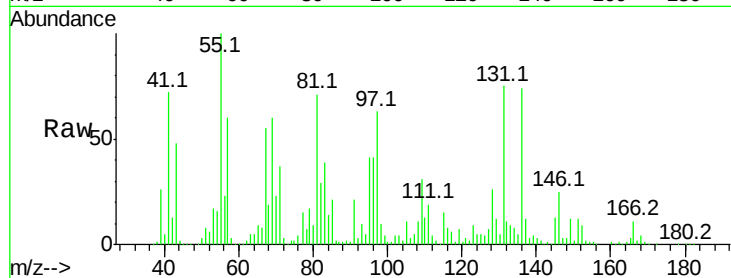
Ion Ratio Lower Upper

136 100

137 16.4 8.4 12.6#

54 21.6 4.5 6.7#

68 25.3 3.6 5.4#

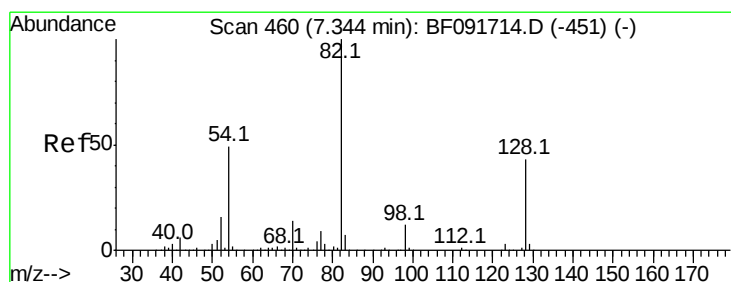
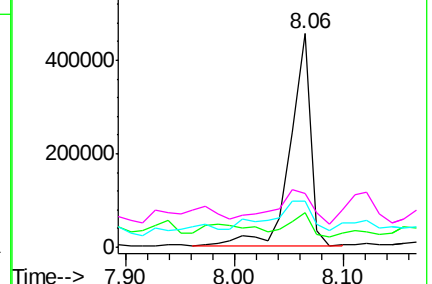
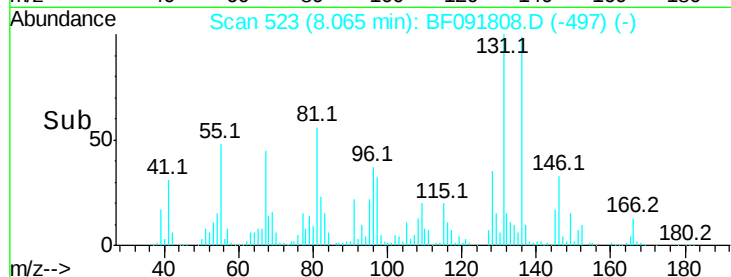


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 85.21 ng

RT: 7.33 min Scan# 459

Delta R.T. -0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

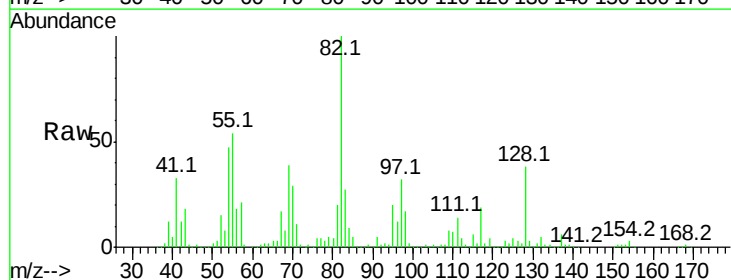
Tgt Ion: 82 Resp: 874073

Ion Ratio Lower Upper

82 100

128 38.1 34.6 52.0

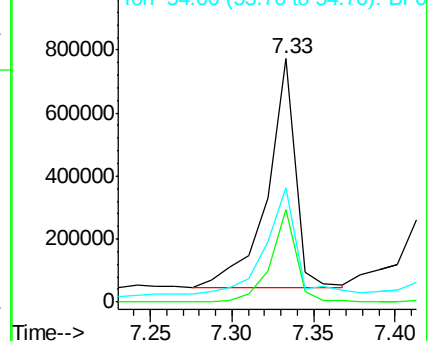
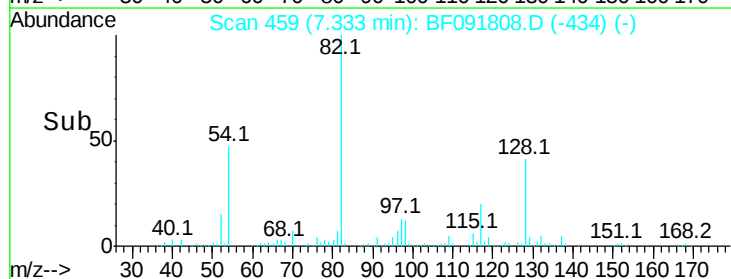
54 47.2 39.5 59.3

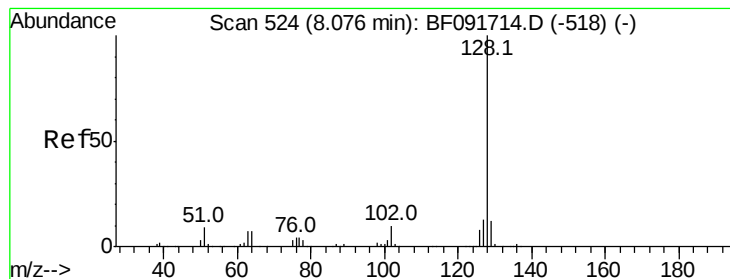


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 51.64 ng

RT: 8.09 min Scan# 525

Delta R.T. 0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

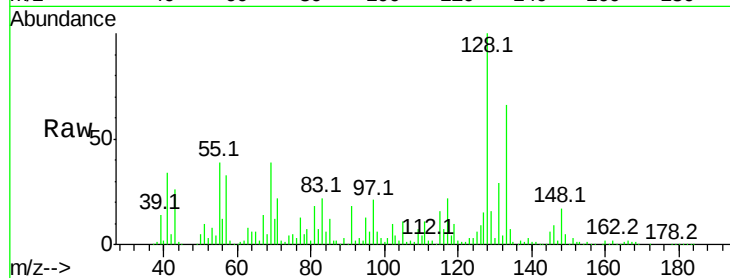
Tot Ion:128 Resp: 1459447

Ion Ratio Lower Upper

128 100

129 15.6 9.5 14.3#

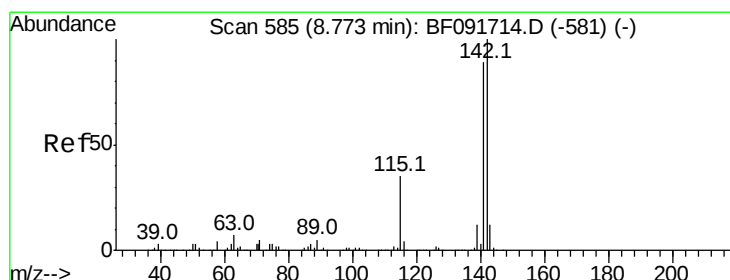
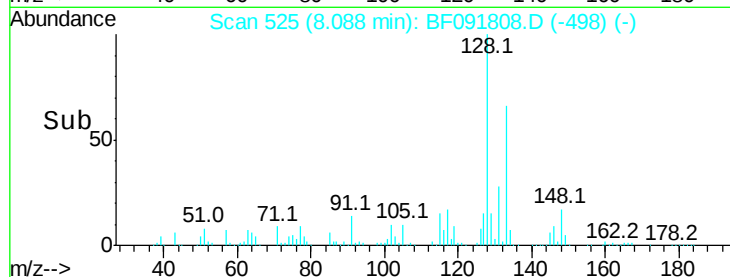
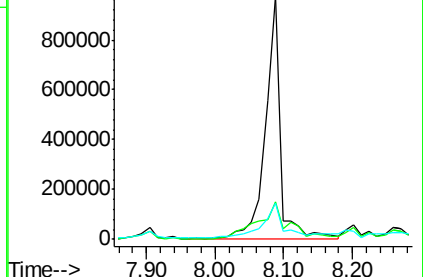
127 15.0 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 134.39 ng

RT: 8.78 min Scan# 586

Delta R.T. 0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

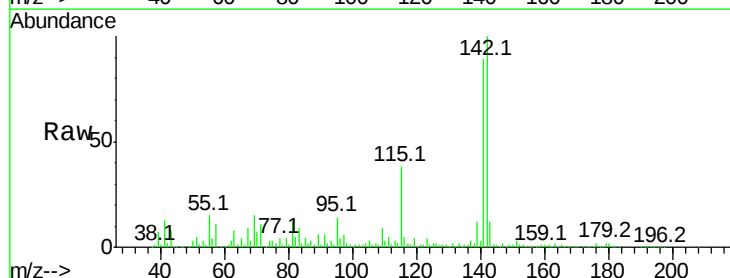
Tgt Ion:142 Resp: 2394418

Ion Ratio Lower Upper

142 100

141 88.7 71.0 106.6

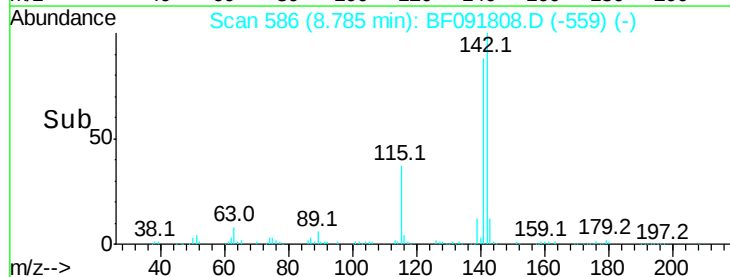
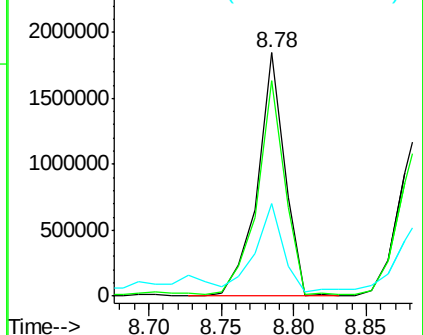
115 38.2 28.3 42.5

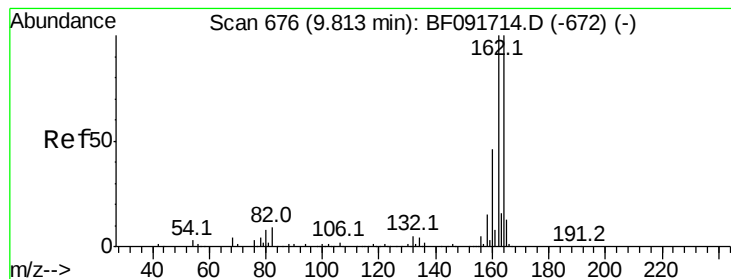


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 676

Delta R.T. 0.00 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

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ClientSampleId :

SB-49(11-13)-12-14-16DL

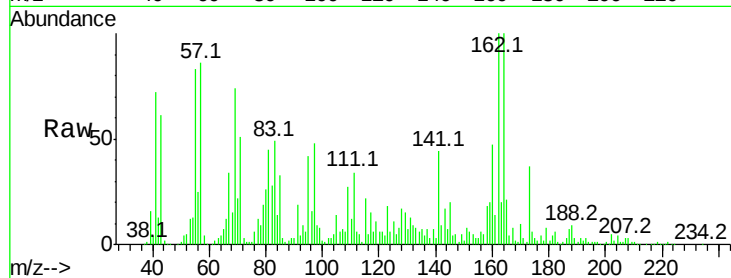
Tot Ion:164 Resp: 326600

Ion Ratio Lower Upper

164 100

162 100.3 80.2 120.2

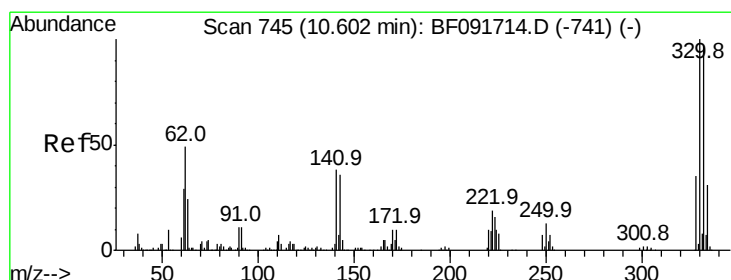
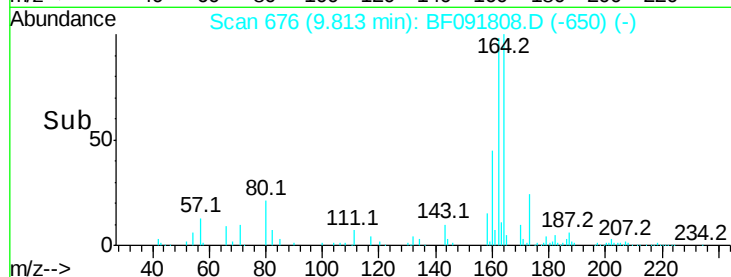
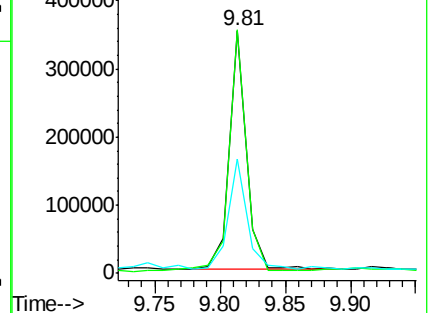
160 47.2 36.9 55.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 102.42 ng

RT: 10.60 min Scan# 745

Delta R.T. 0.00 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

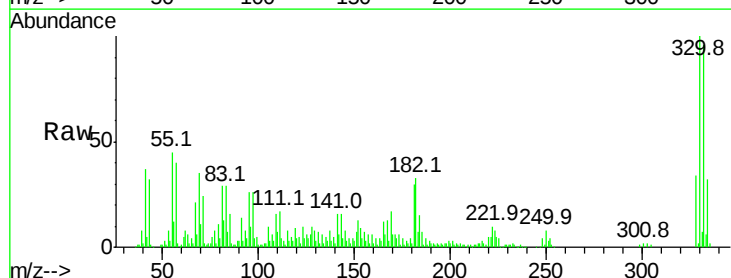
Tgt Ion:330 Resp: 283637

Ion Ratio Lower Upper

330 100

332 96.2 77.4 116.2

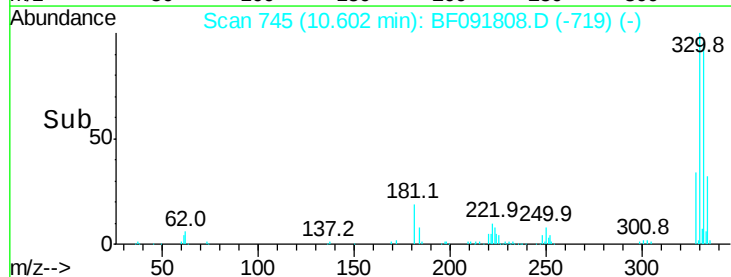
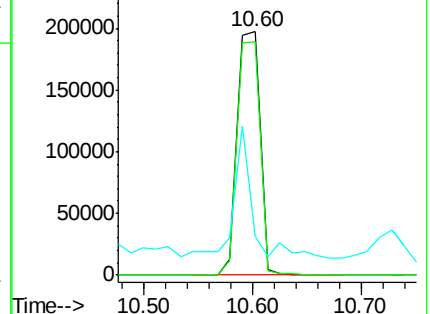
141 41.9 34.1 51.1

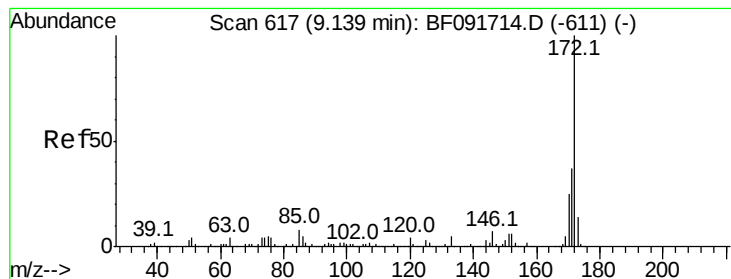


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

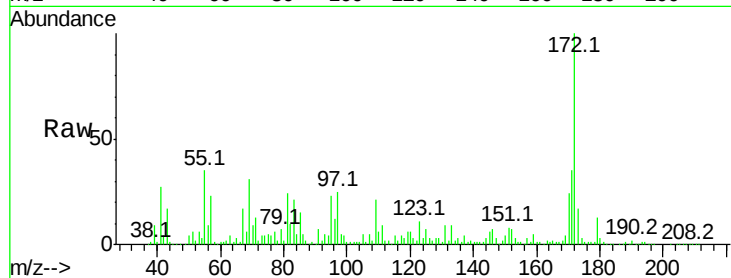




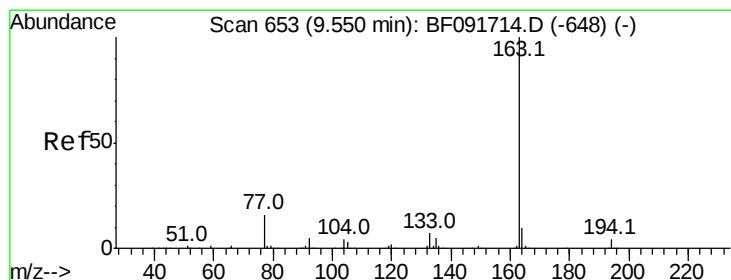
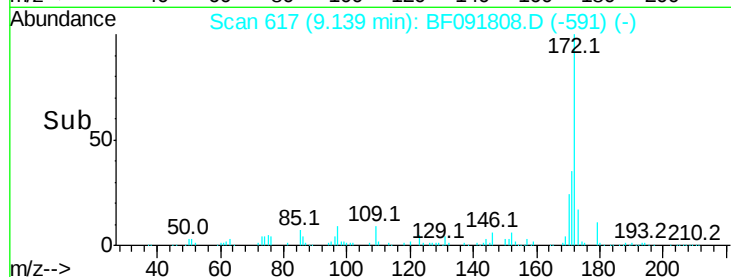
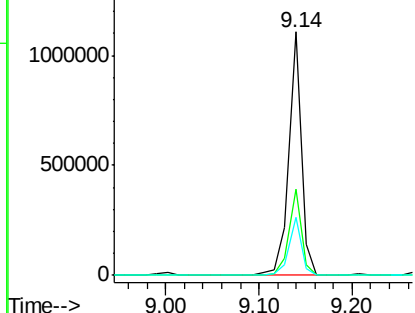
#44
2-Fluorobiphenyl
Concen: 64.25 ng
RT: 9.14 min Scan# 617
Delta R.T. 0.00 min
Lab File: BF091808.D
Acq: 20 Dec 2016 9:47

Instrument :
BNA_F
ClientSampleId :
SB-49(11-13)-12-14-16DL

Tot Ion:172 Resp: 1044481
Ion Ratio Lower Upper
172 100
171 35.5 29.4 44.0
170 23.8 20.2 30.4

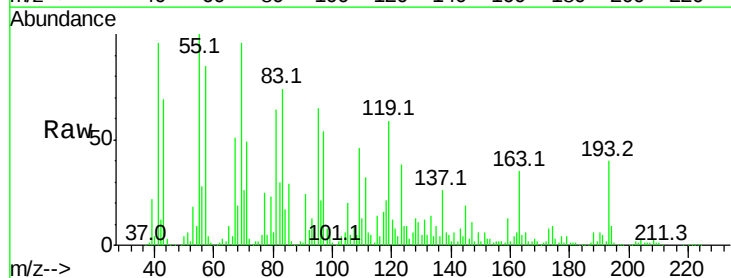


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

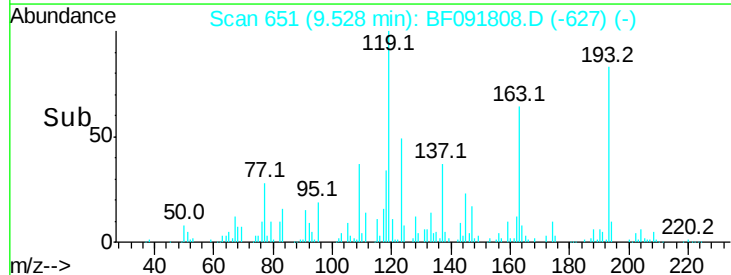
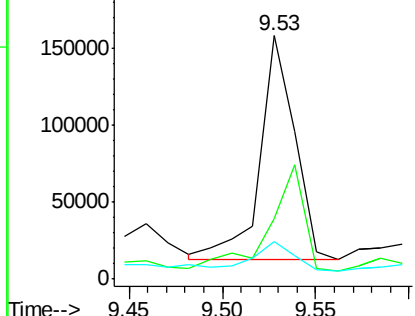


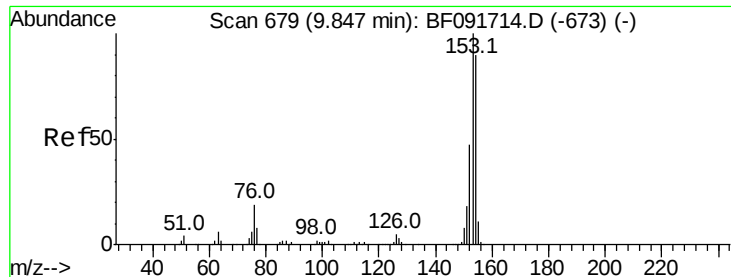
#49
Dimethylphthalate
Concen: 8.89 ng
RT: 9.53 min Scan# 651
Delta R.T. -0.02 min
Lab File: BF091808.D
Acq: 20 Dec 2016 9:47

Tgt Ion:163 Resp: 189600
Ion Ratio Lower Upper
163 100
194 24.9 3.0 4.4#
164 15.5 8.0 12.0#



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: 8.13 ng

RT: 9.85 min Scan# 679

Delta R.T. 0.00 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

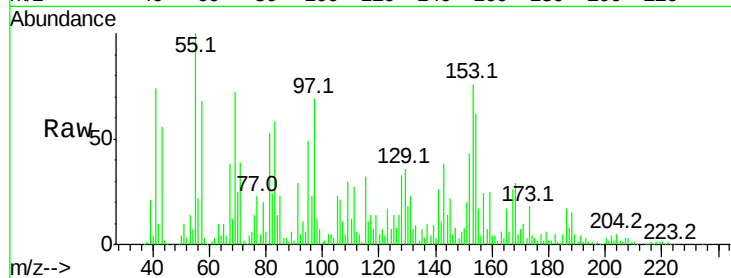
Tot Ion:154 Resp: 151277

Ion Ratio Lower Upper

154 100

153 123.5 88.6 133.0

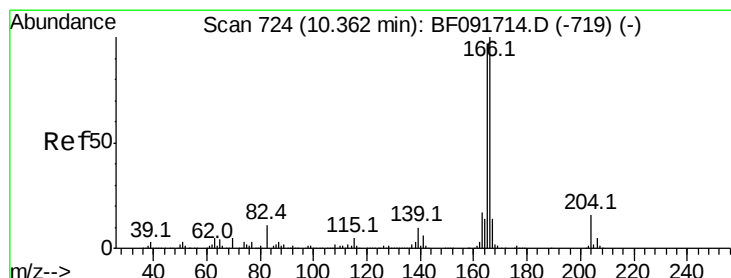
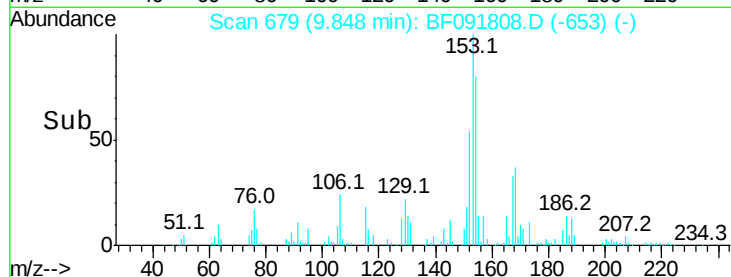
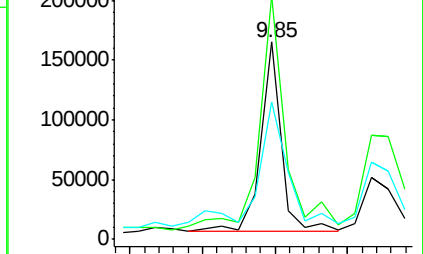
152 69.5 41.6 62.4#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 14.02 ng

RT: 10.35 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

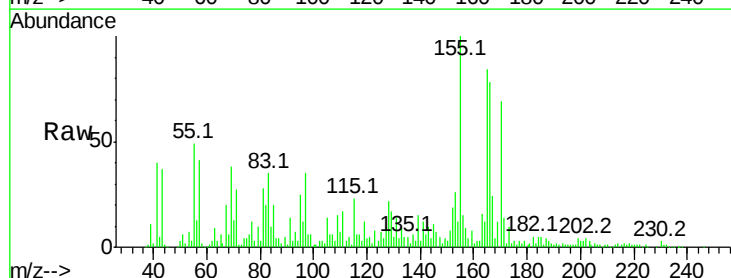
Tgt Ion:166 Resp: 240863

Ion Ratio Lower Upper

166 100

165 108.3 77.8 116.8

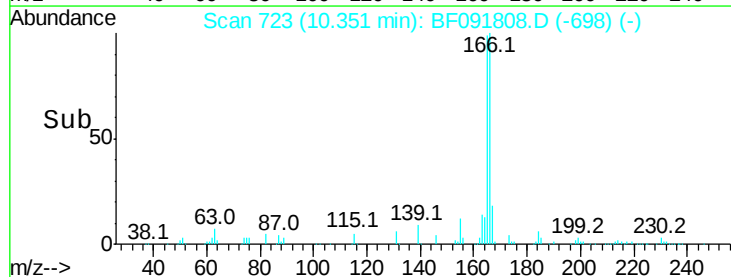
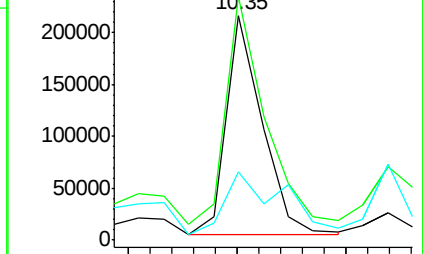
167 30.5 10.8 16.2#

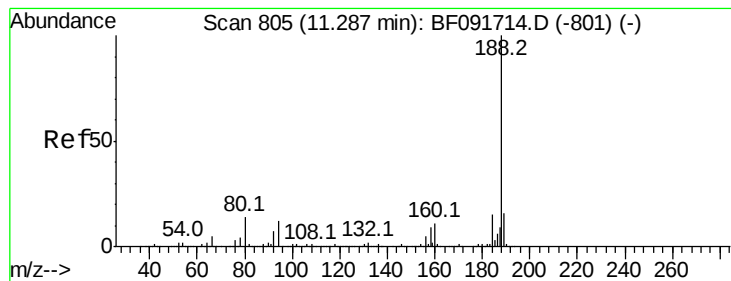


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.29 min Scan# 805

Delta R.T. 0.00 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

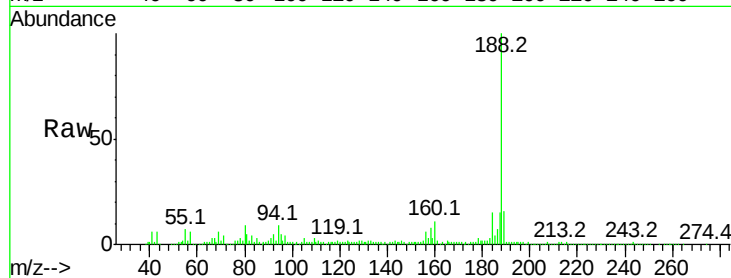
Tot Ion:188 Resp: 706023

Ion Ratio Lower Upper

188 100

94 8.6 10.0 15.0#

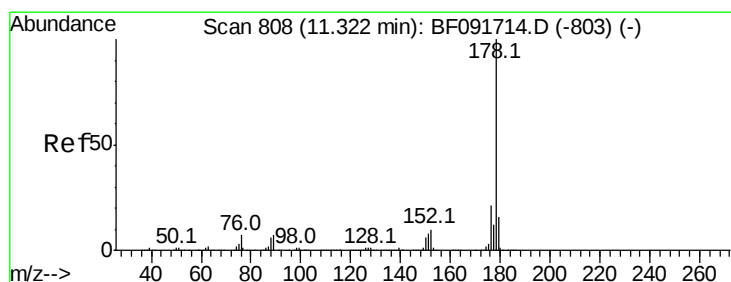
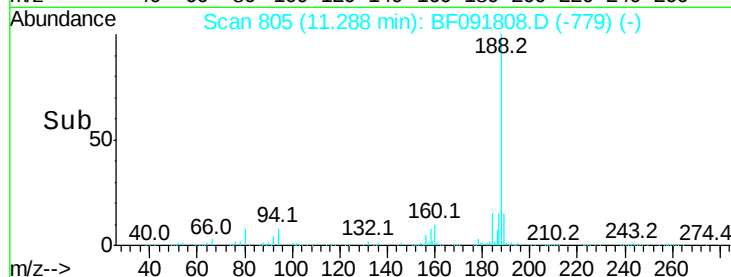
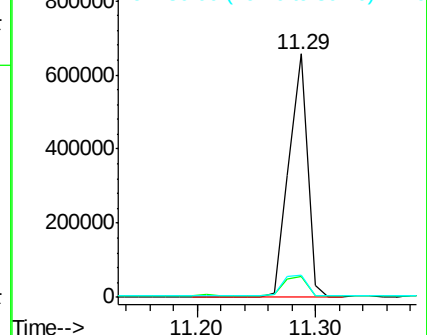
80 9.0 11.2 16.8#



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: 45.77 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

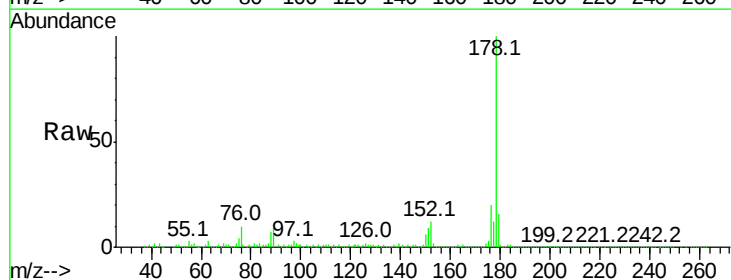
Tgt Ion:178 Resp: 1614680

Ion Ratio Lower Upper

178 100

176 20.4 16.6 25.0

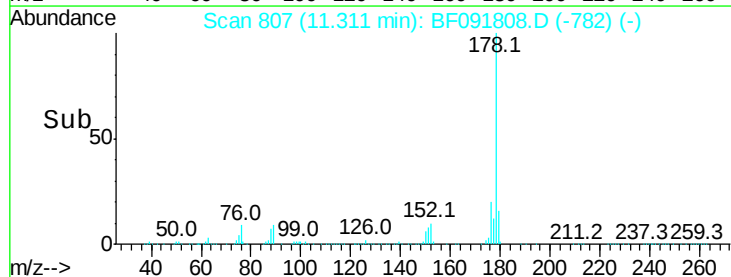
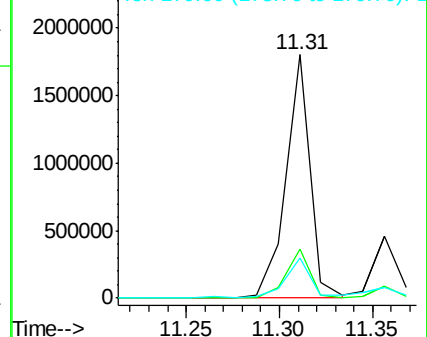
179 16.5 12.8 19.2

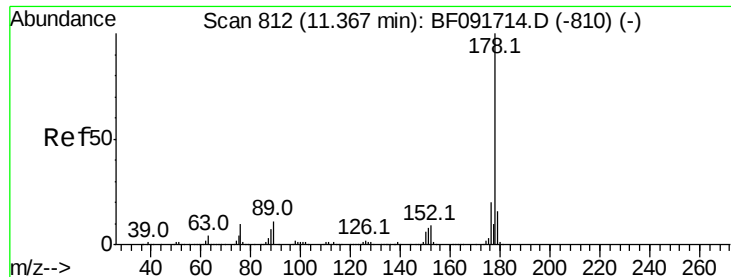


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 10.73 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

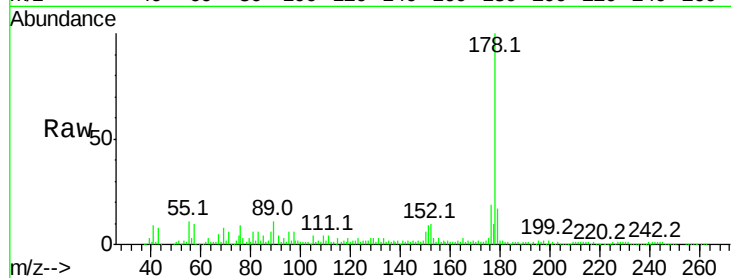
BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

Tot Ion:178 Resp: 400807

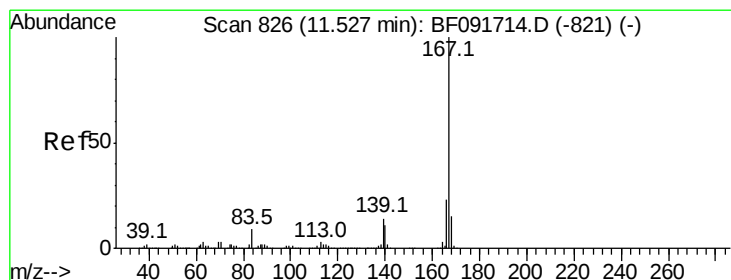
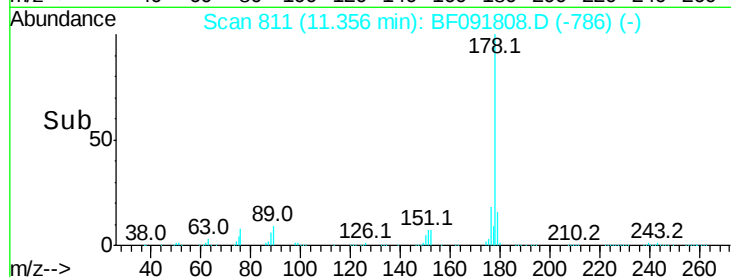
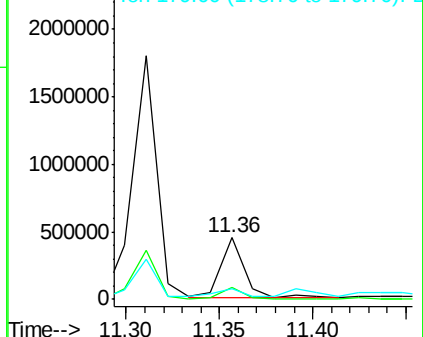
Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.9	23.9
179	16.9	13.2	19.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 3.47 ng

RT: 11.52 min Scan# 825

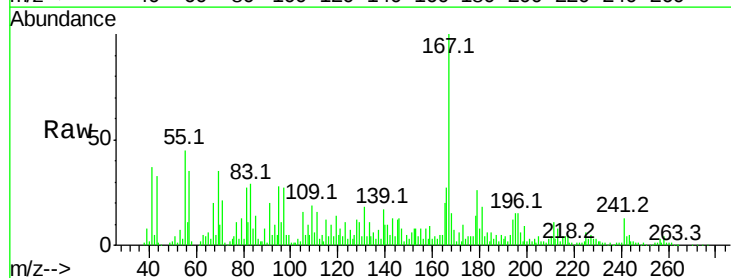
Delta R.T. -0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Tgt Ion:167 Resp: 113407

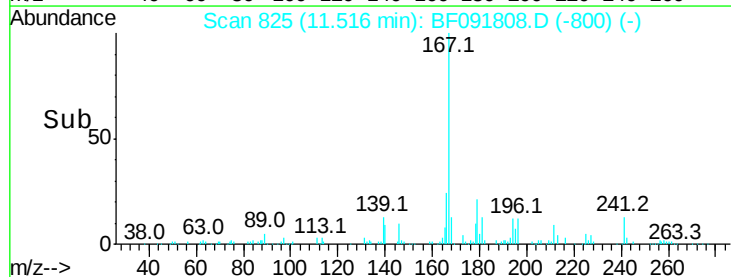
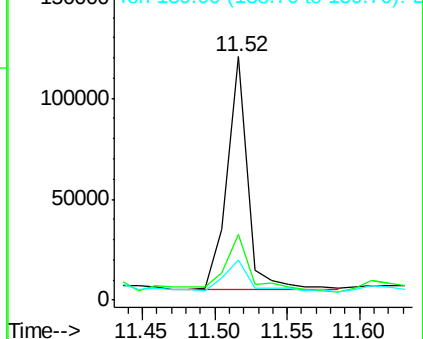
Ion	Ratio	Lower	Upper
167	100		
166	27.0	18.2	27.2
139	16.6	11.4	17.2

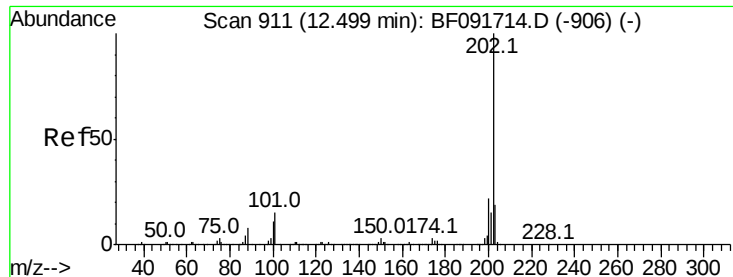


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

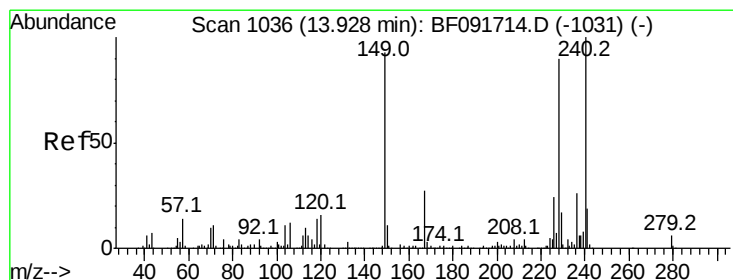
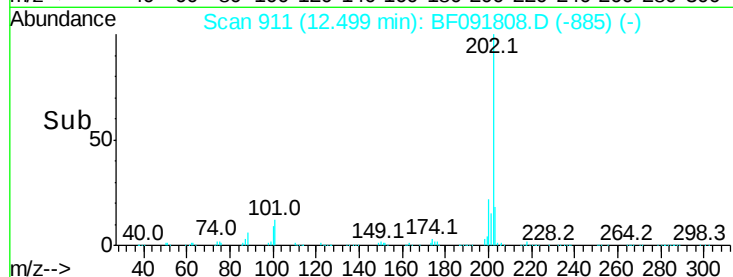
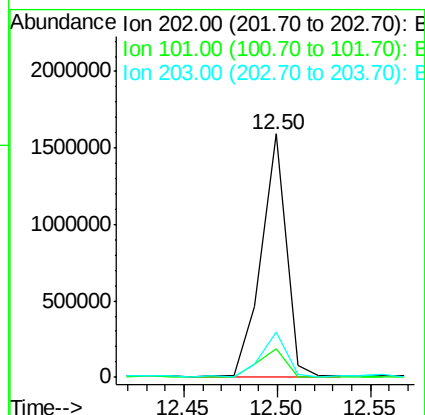
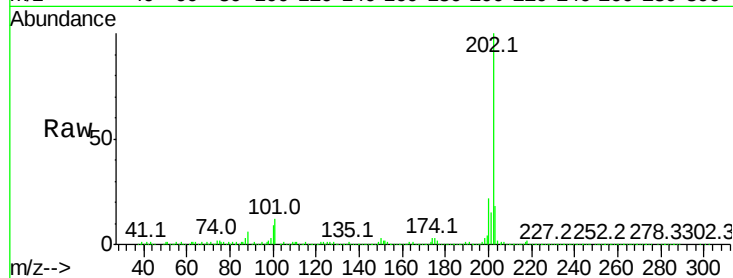




#74
Fluoranthene
Concen: 39.72 ng
RT: 12.50 min Scan# 911
Delta R.T. 0.00 min
Lab File: BF091808.D
Acq: 20 Dec 2016 9:47

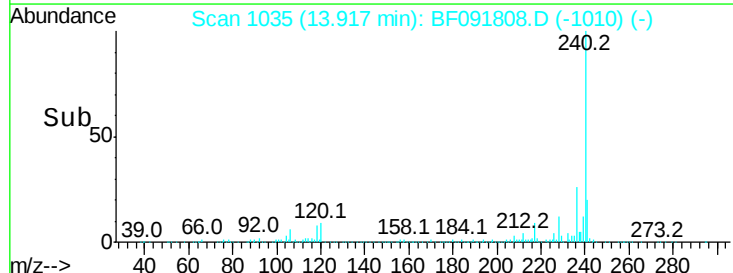
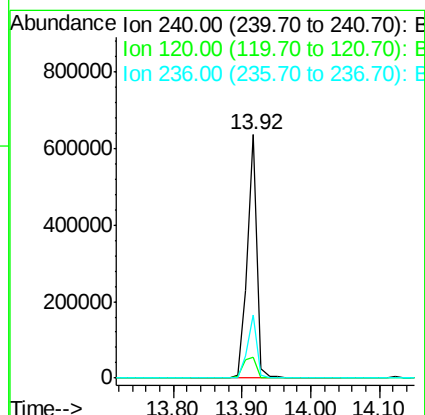
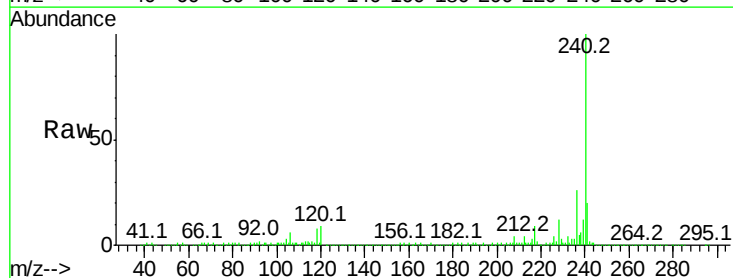
Instrument :
BNA_F
ClientSampleId :
SB-49(11-13)-12-14-16DL

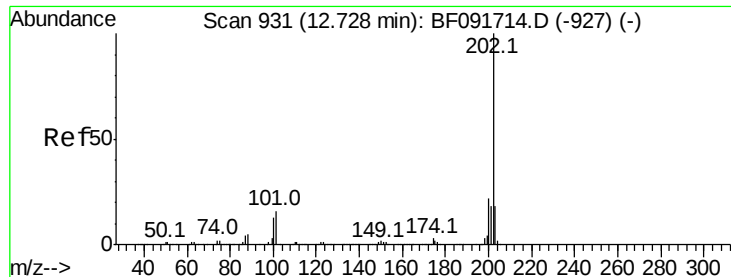
Tot Ion:202 Resp: 1463390
Ion Ratio Lower Upper
202 100
101 11.9 0.0 34.6
203 18.5 0.0 38.7



#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.92 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF091808.D
Acq: 20 Dec 2016 9:47

Tgt Ion:240 Resp: 622944
Ion Ratio Lower Upper
240 100
120 8.8 12.9 19.3#
236 26.0 20.9 31.3





#77

Pvrene

Concen: 34.04 ng

RT: 12.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

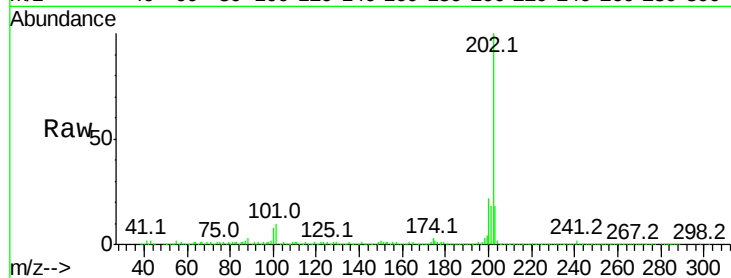
Tot Ion:202 Resp: 1531345

Ion Ratio Lower Upper

202 100

200 22.0 17.7 26.5

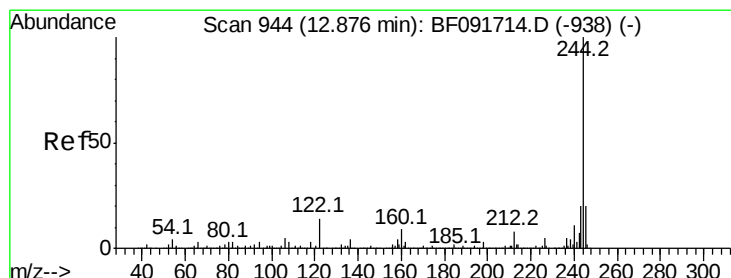
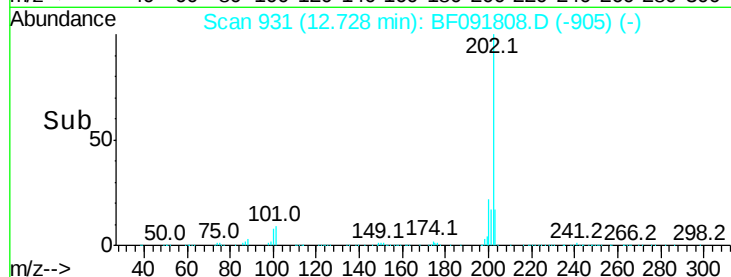
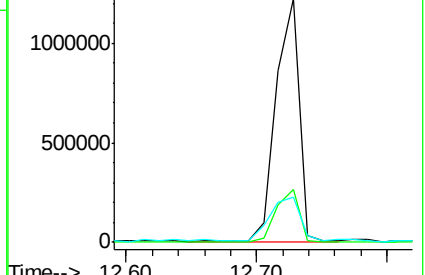
203 18.4 14.7 22.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 43.66 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

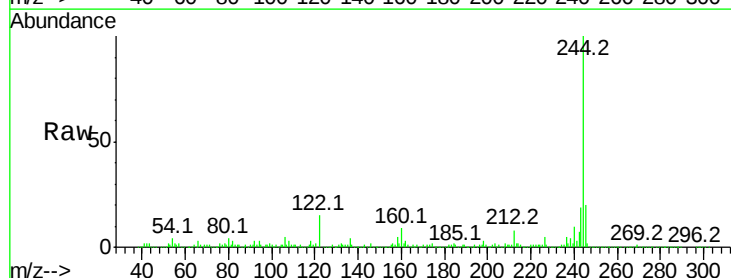
Tgt Ion:244 Resp: 1077152

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

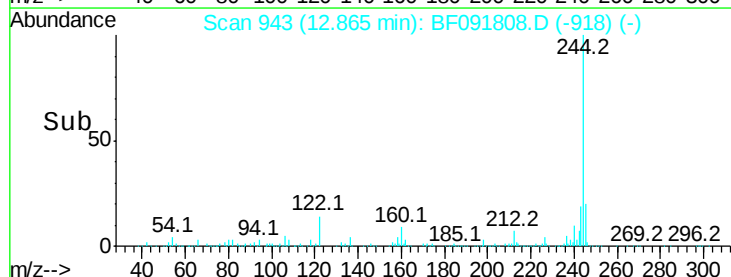
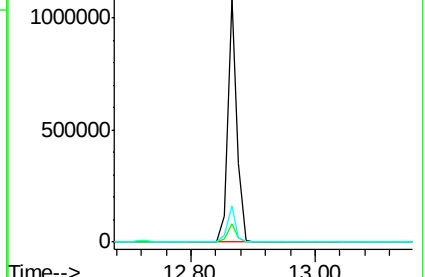
122 14.6 11.4 17.2

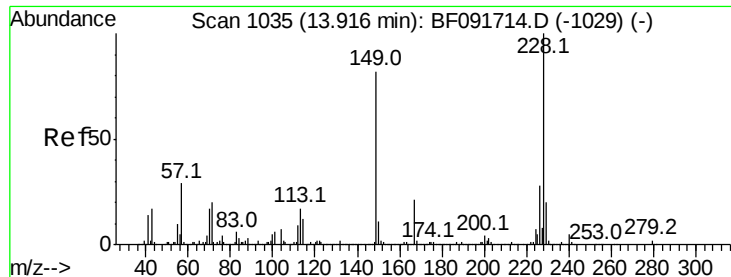


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

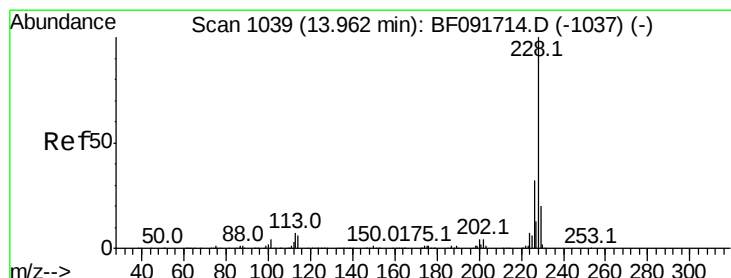
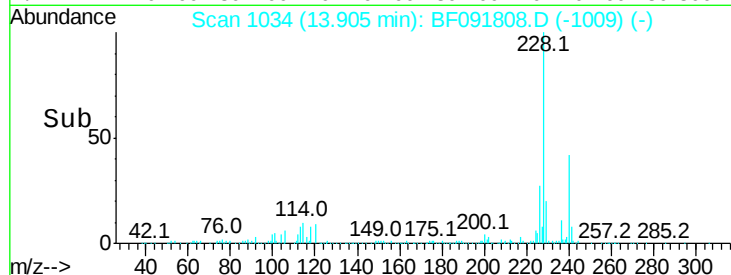
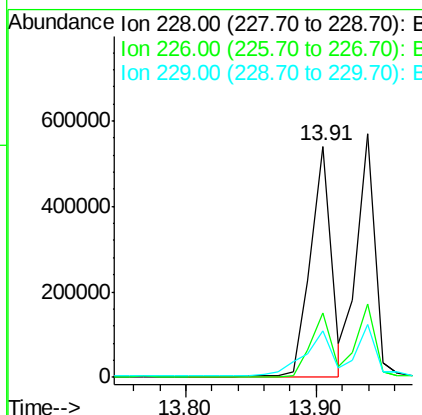
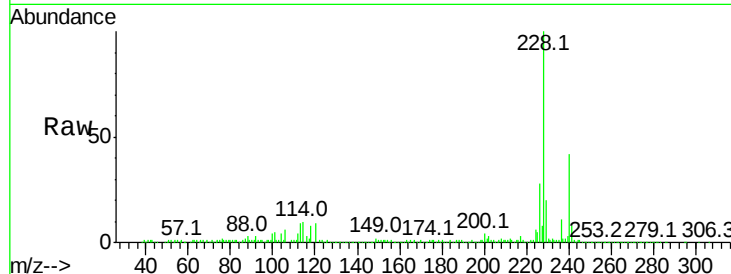




#80
Benzo(a)anthracene
Concen: 16.62 ng
RT: 13.91 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BF091808.D
Acq: 20 Dec 2016 9:47

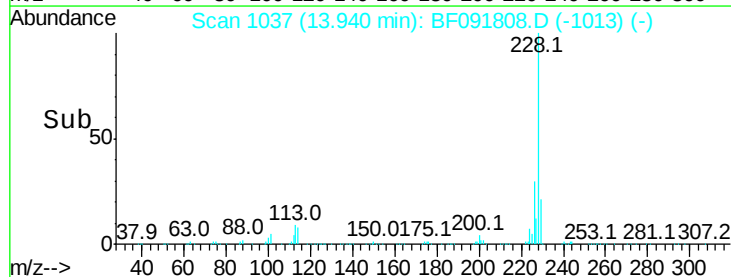
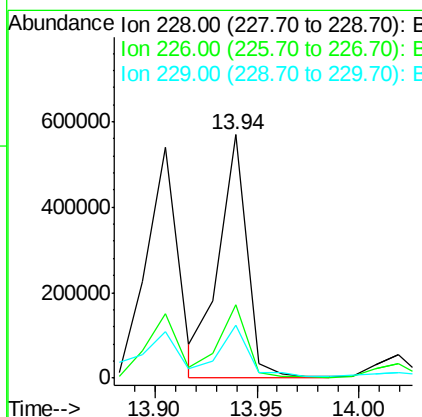
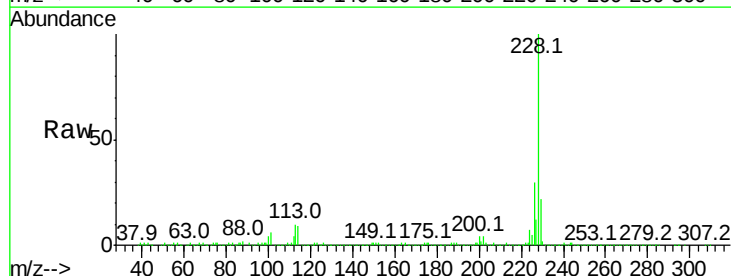
Instrument :
BNA_F
ClientSampleId :
SB-49(11-13)-12-14-16DL

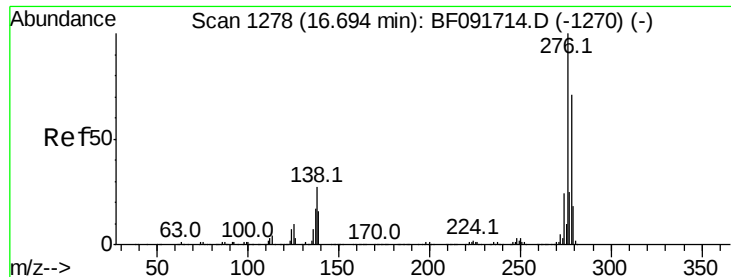
Tot Ion:228 Resp: 592133
Ion Ratio Lower Upper
228 100
226 27.7 22.4 33.6
229 20.2 16.2 24.4



#82
Chrysene
Concen: 14.86 ng m
RT: 13.94 min Scan# 1037
Delta R.T. -0.02 min
Lab File: BF091808.D
Acq: 20 Dec 2016 9:47

Tgt Ion:228 Resp: 548974
Ion Ratio Lower Upper
228 100
226 30.3 25.4 38.0
229 21.8 16.2 24.2

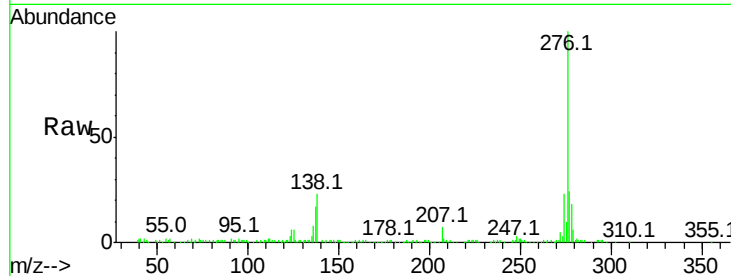




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.14 ng
 RT: 16.65 min Scan# 1274
 Delta R.T. -0.05 min
 Lab File: BF091808.D
 Acq: 20 Dec 2016 9:47

Instrument :
 BNA_F
 ClientSampleId :
 SB-49(11-13)-12-14-16DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.1	21.8	32.6
277	30.2	20.2	30.4

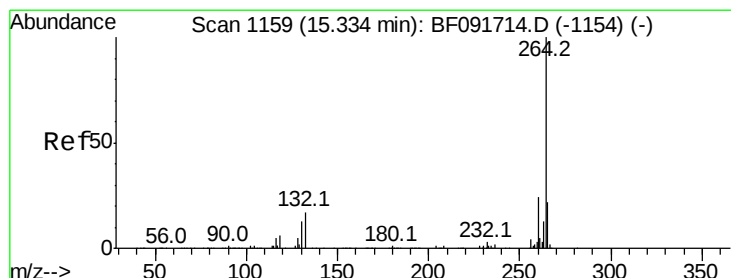
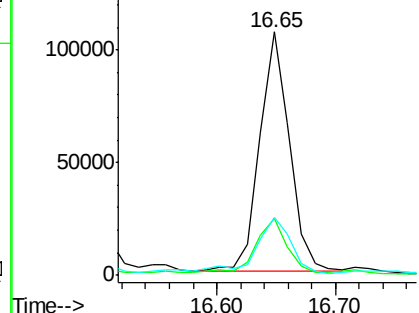
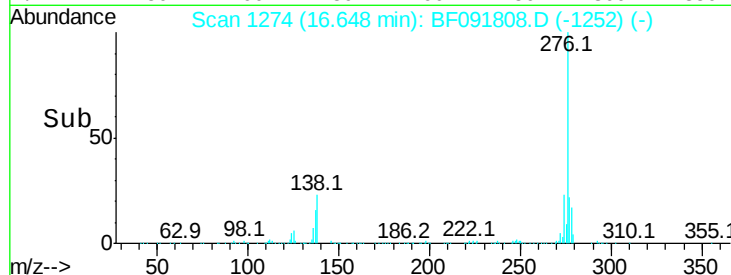


Abundance

Ion 276.00 (275.70 to 276.70): E

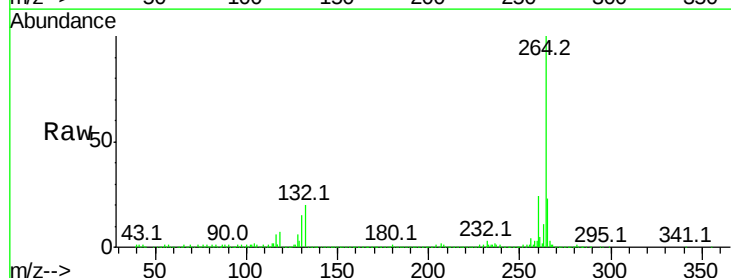
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.31 min Scan# 1157
 Delta R.T. -0.02 min
 Lab File: BF091808.D
 Acq: 20 Dec 2016 9:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	22.6	17.4	26.0

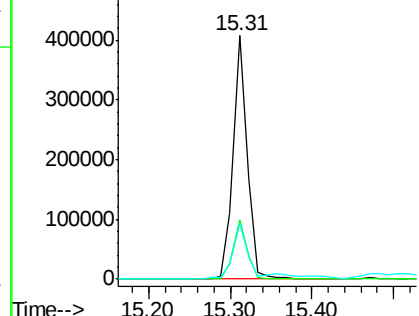
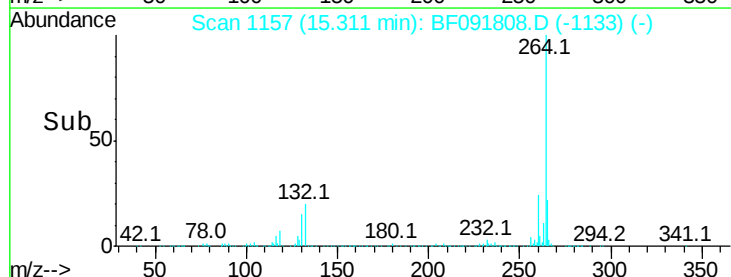


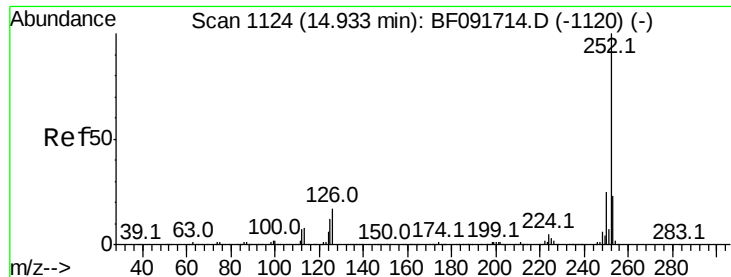
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 16.91 ng m

RT: 14.92 min Scan# 1123

Delta R.T. -0.01 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

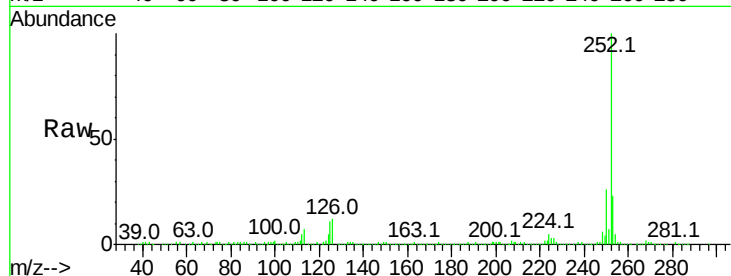
Tot Ion:252 Resp: 525235

Ion Ratio Lower Upper

252 100

253 22.8 18.2 27.4

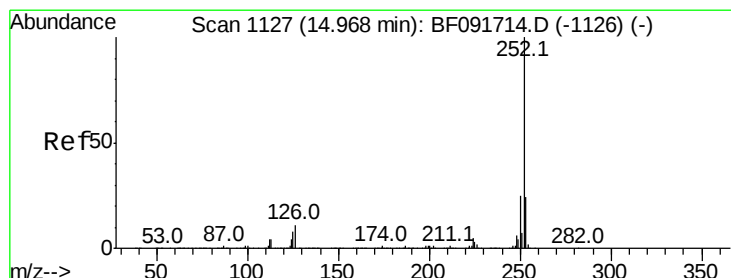
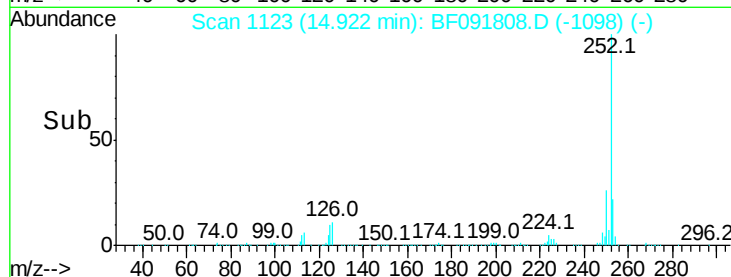
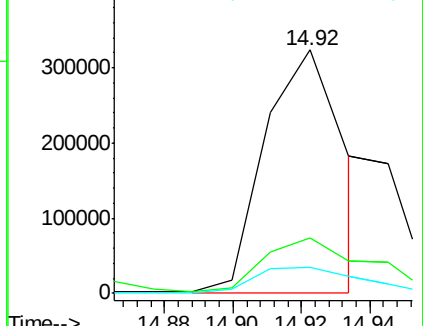
125 10.9 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 6.29 ng m

RT: 14.93 min Scan# 1124

Delta R.T. -0.03 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

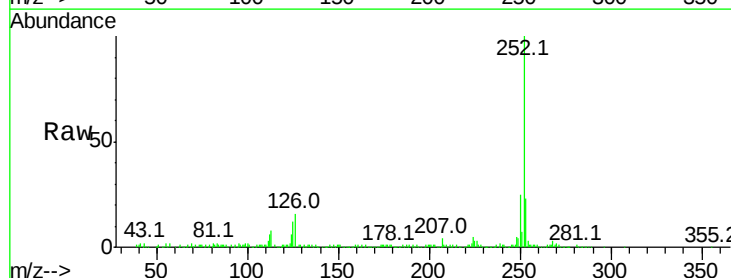
Tgt Ion:252 Resp: 137017

Ion Ratio Lower Upper

252 100

253 23.2 18.5 27.7

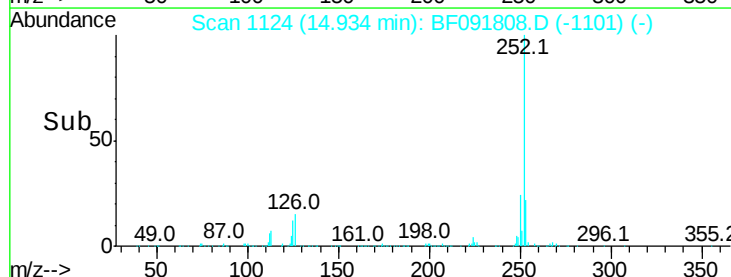
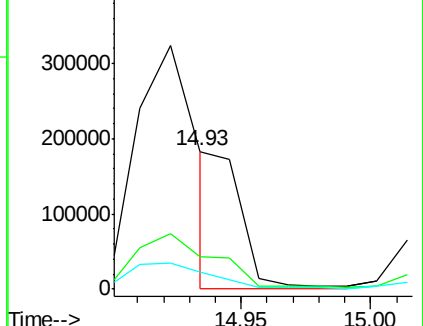
125 12.5 8.9 13.3

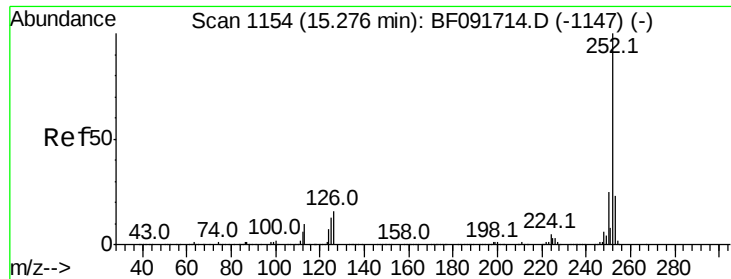


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 13.61 ng

RT: 15.25 min Scan# 1152

Delta R.T. -0.02 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

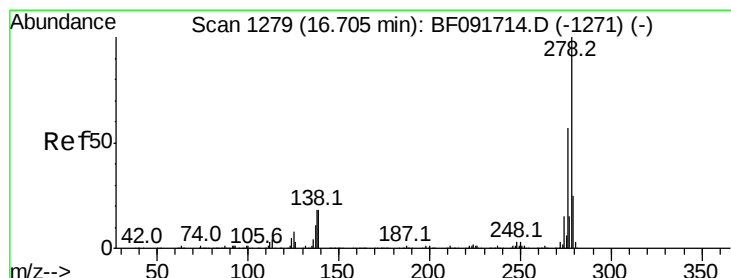
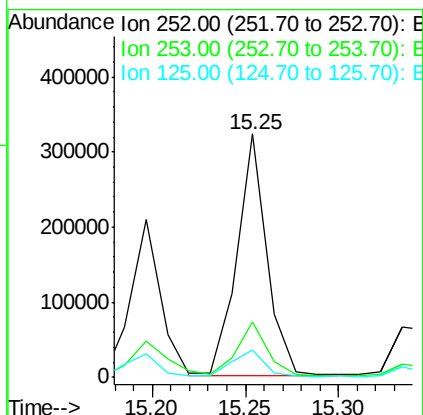
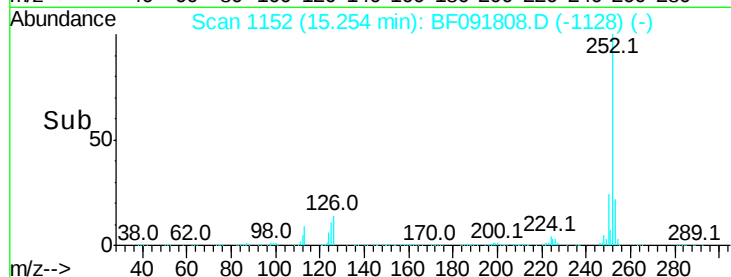
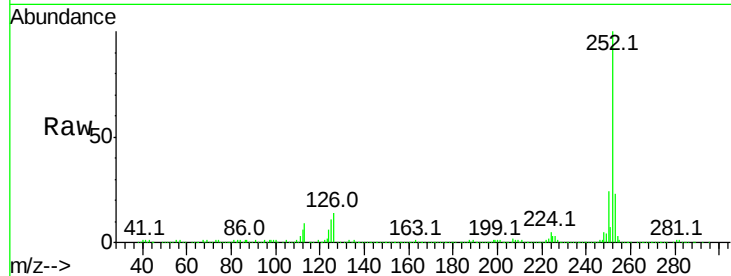
Tot Ion:252 Resp: 362999

Ion Ratio Lower Upper

252 100

253 22.8 18.2 27.2

125 11.3 10.0 15.0



#90

Dibenzo(a,h)anthracene

Concen: 2.04 ng

RT: 16.66 min Scan# 1275

Delta R.T. -0.05 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

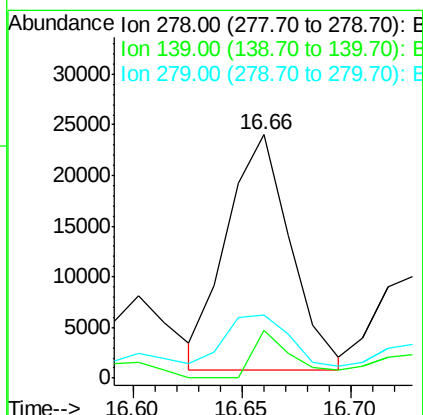
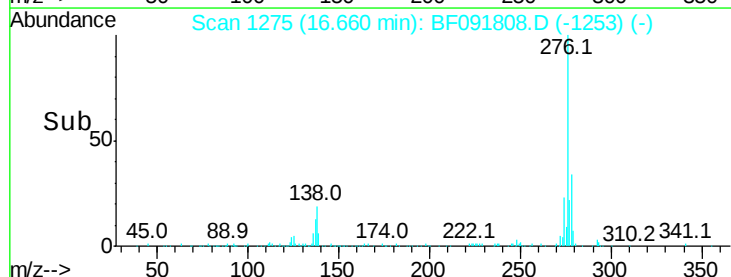
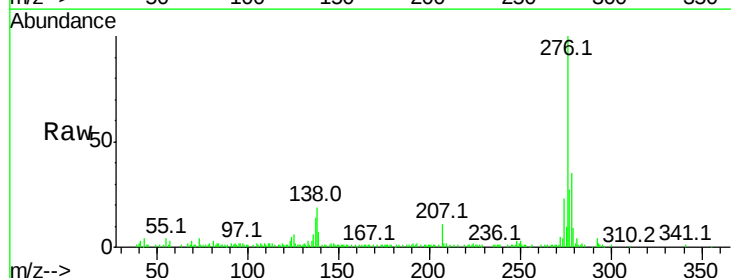
Tgt Ion:278 Resp: 47312

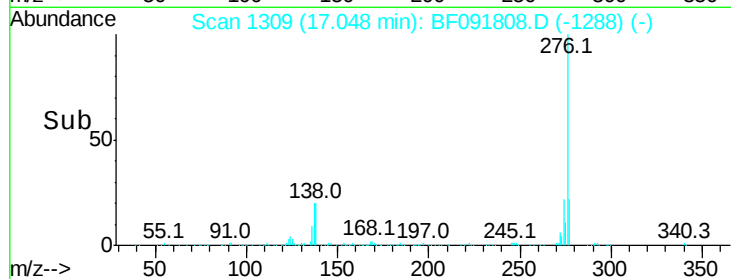
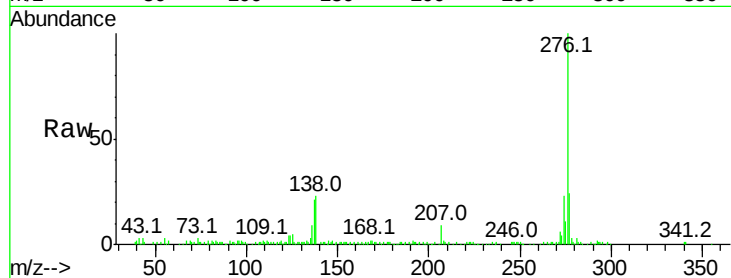
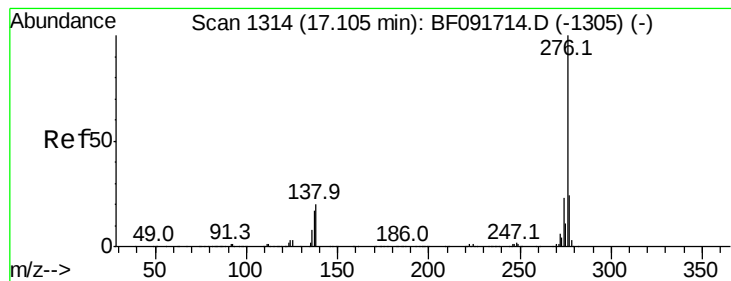
Ion Ratio Lower Upper

278 100

139 19.9 14.8 22.2

279 26.2 19.8 29.6





#91

Benzo(a,h,i)perylene

Concen: 7.95 ng

RT: 17.05 min Scan# 1309

Delta R.T. -0.06 min

Lab File: BF091808.D

Acq: 20 Dec 2016 9:47

Instrument :

BNA_F

ClientSampleId :

SB-49(11-13)-12-14-16DL

Tot Ion:276 Resp: 187757

Ion Ratio Lower Upper

276 100

277 23.8 19.2 28.8

138 23.0 16.0 24.0

