

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\
 Data File : BF091690.D
 Acq On : 16 Dec 2016 23:17
 Operator : UM/SJ
 Sample : H5977-04
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T-4

Quant Time: Dec 17 00:17:32 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 16 00:35:41 2016
 Response via : Initial Calibration

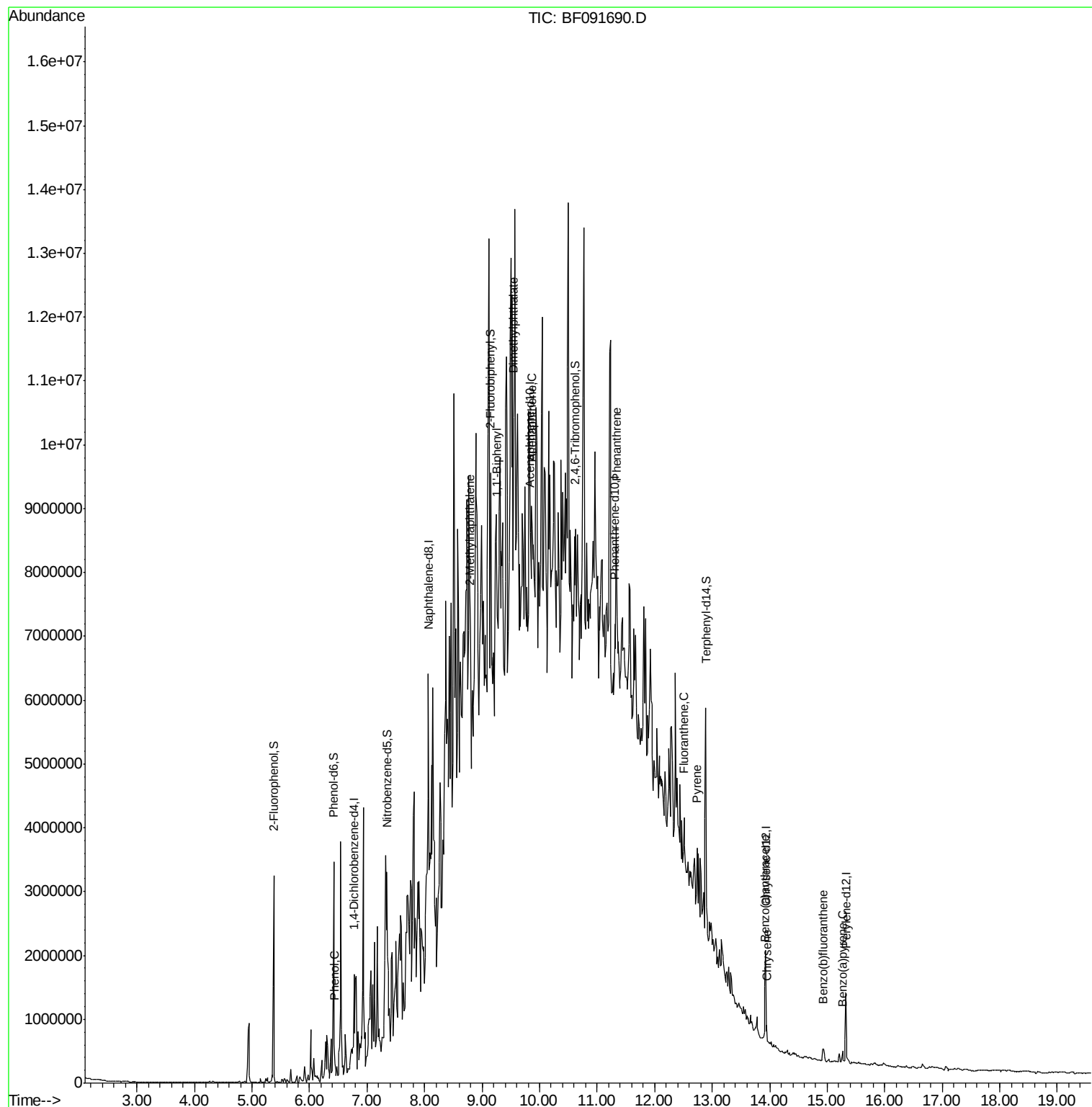
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	136271	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	512538	20.00	ng	-0.01
38) Acenaphthene-d10	9.84	164	338411	20.00	ng	0.01
63) Phenanthrene-d10	11.31	188	491894	20.00	ng	0.00
75) Chrysene-d12	13.93	240	531229	20.00	ng	-0.01
86) Perylene-d12	15.32	264	484388	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	889690	109.99	ng	0.00
7) Phenol-d6	6.42	99	1030819	102.23	ng	-0.01
23) Nitrobenzene-d5	7.34	82	808452	88.04	ng	-0.01
41) 2,4,6-Tribromophenol	10.62	330	281363	100.10	ng	0.01
44) 2-Fluorobiphenyl	9.15	172	1421126	72.56	ng	0.00
78) Terphenyl-d14	12.89	244	1157453	49.44	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.43	94	69970	5.93	ng	90
37) 2-Methylnaphthalene	8.80	142	1413678	91.59	ng	98
45) 1,1'-Biphenyl	9.25	154	187717	7.66	ng	95
49) Dimethylphthalate	9.55	163	165630	7.73	ng	# 54
51) Acenaphthene	9.86	154	242397	12.06	ng	# 86
70) Phenanthrene	11.33	178	1249392	51.29	ng	# 95
74) Fluoranthene	12.51	202	226239	8.87	ng	83
77) Pyrene	12.74	202	520194	12.34	ng	97
80) Benzo(a)anthracene	13.92	228	116259	3.77	ng	# 93
82) Chrysene	13.95	228	113967m	3.53	ng	
87) Benzo(b)fluoranthene	14.92	252	135873m	4.71	ng	
89) Benzo(a)pyrene	15.27	252	86137	3.31	ng	99

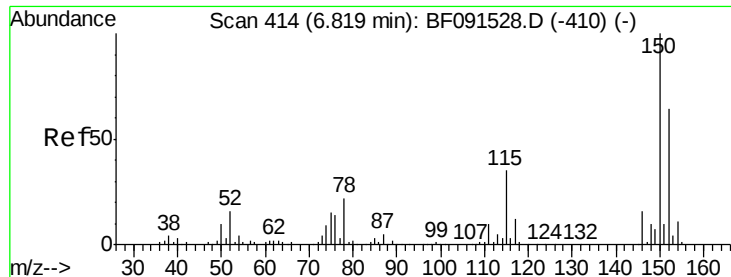
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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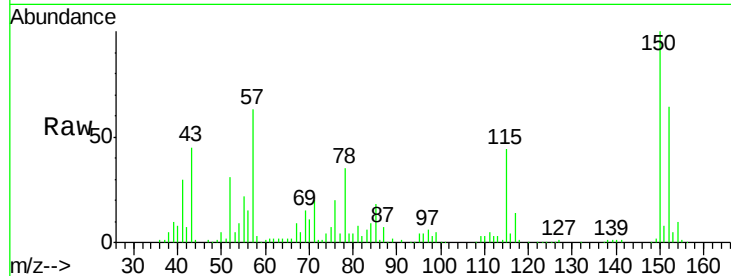




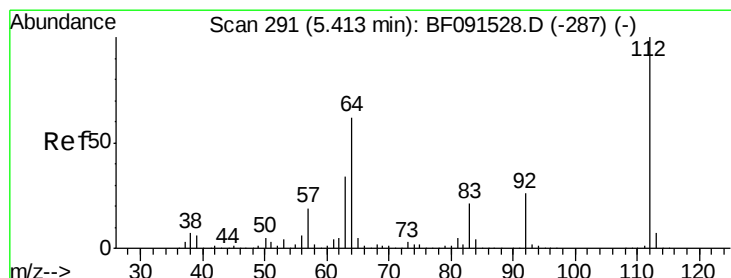
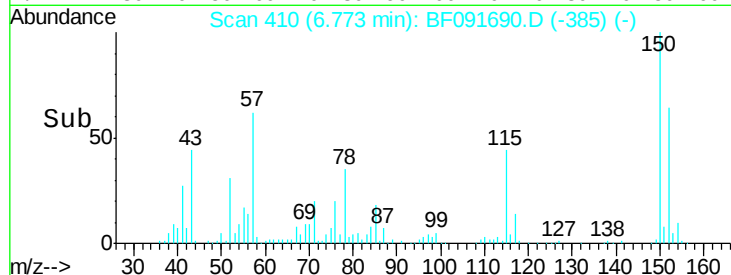
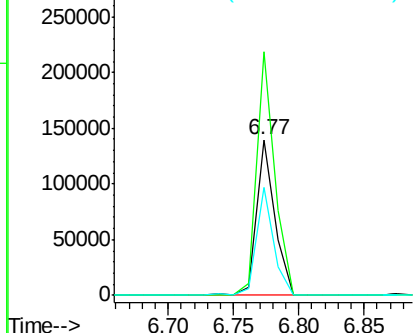
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.77 min Scan# 410
 Delta R.T. -0.01 min
 Lab File: BF091690.D
 Acq: 16 Dec 2016 23:17

Instrument :
 BNA_F
 ClientSampled :
 T-4

Tot Ion:152 Resp: 136271
 Ion Ratio Lower Upper
 152 100
 150 156.7 122.5 183.7
 115 69.2 51.8 77.8

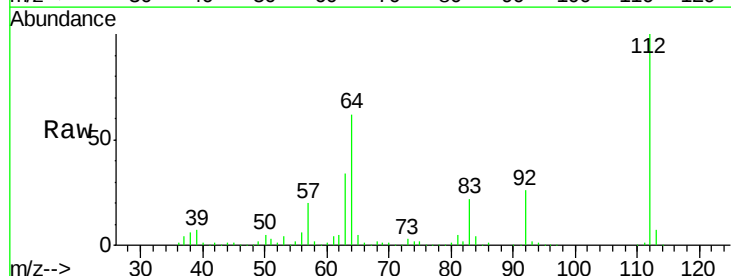


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

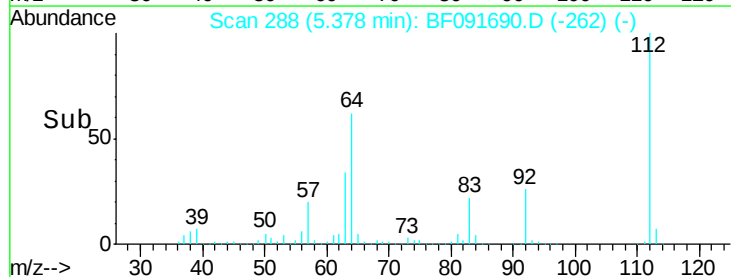
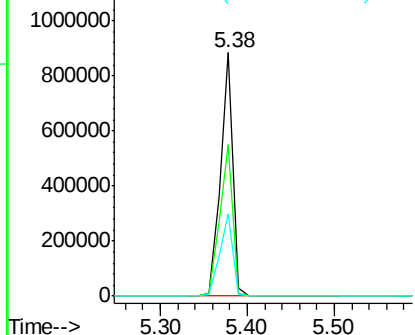


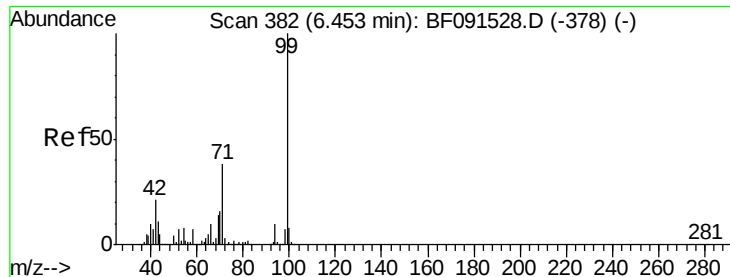
#5
 2-Fluorophenol
 Concen: 109.99 ng
 RT: 5.38 min Scan# 288
 Delta R.T. -0.00 min
 Lab File: BF091690.D
 Acq: 16 Dec 2016 23:17

Tgt Ion:112 Resp: 889690
 Ion Ratio Lower Upper
 112 100
 64 62.3 61.5 92.3
 63 33.9 33.3 49.9



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: 102.23 ng

RT: 6.42 min Scan# 379

Delta R.T. -0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampled :

T-4

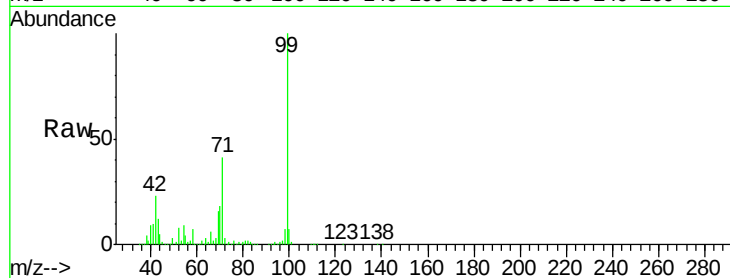
Tot Ion: 99 Resp: 1030819

Ion Ratio Lower Upper

99 100

42 23.2 20.6 31.0

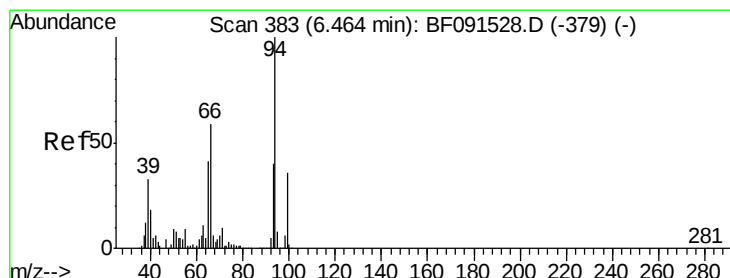
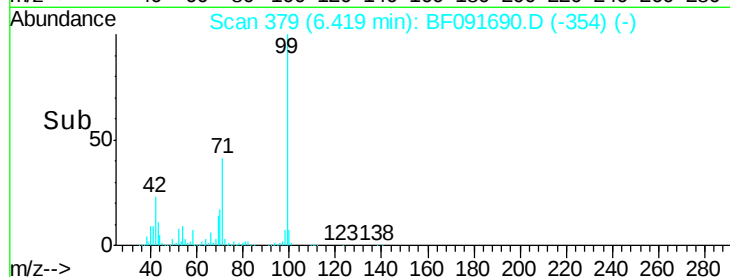
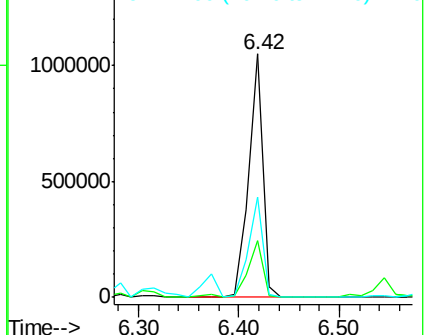
71 41.0 29.9 44.9



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 5.93 ng

RT: 6.43 min Scan# 380

Delta R.T. -0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

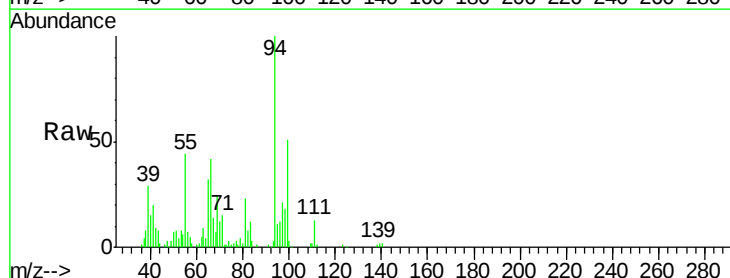
Tgt Ion: 94 Resp: 69970

Ion Ratio Lower Upper

94 100

65 32.2 16.9 56.9

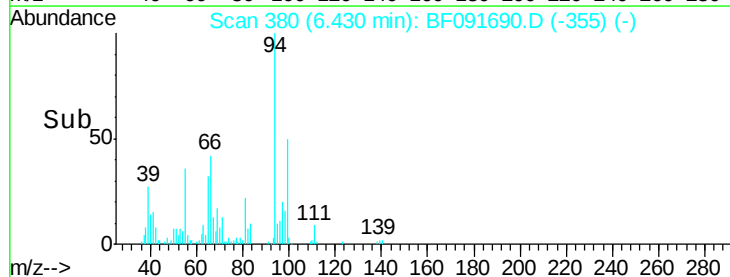
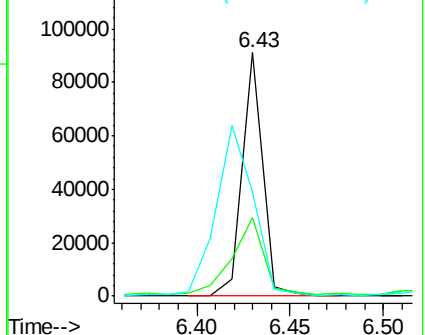
66 42.5 30.6 70.6

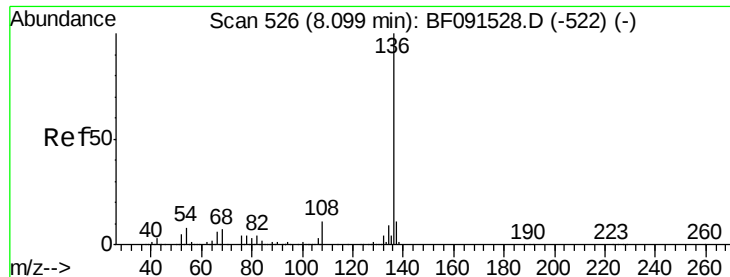


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 523

Delta R.T. -0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampleId :

T-4

Tot Ion:136 Resp: 512538

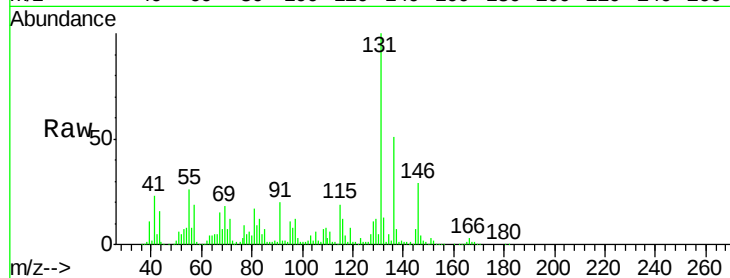
Ion Ratio Lower Upper

136 100

137 13.7 9.1 13.7#

54 14.9 9.1 13.7#

68 13.7 5.9 8.9#

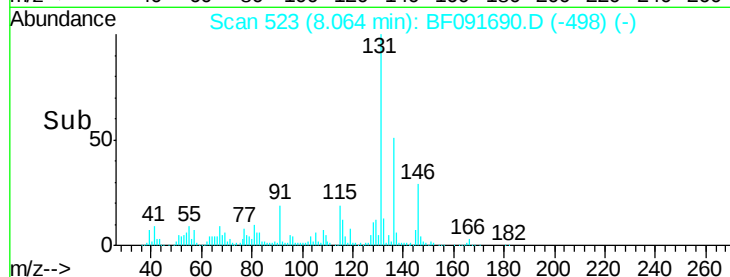


Abundance Ion 136.00 (135.70 to 136.70): E

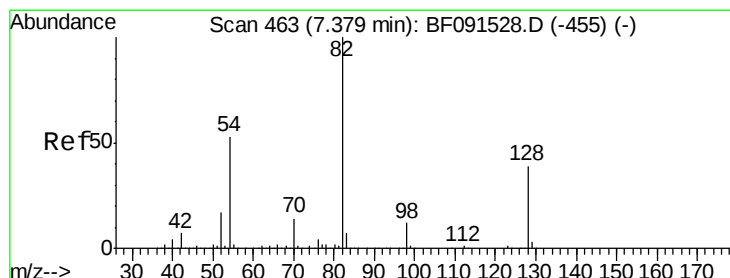
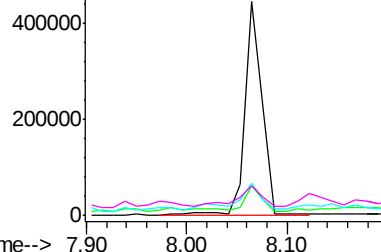
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 88.04 ng

RT: 7.34 min Scan# 460

Delta R.T. -0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

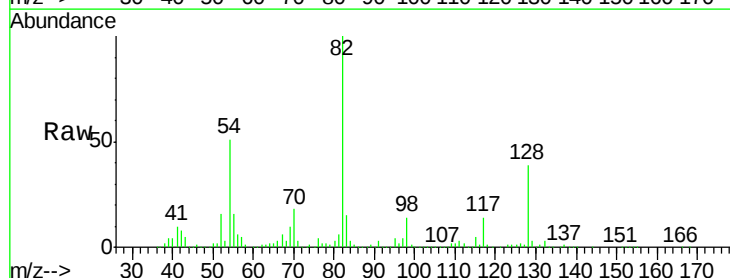
Tgt Ion: 82 Resp: 808452

Ion Ratio Lower Upper

82 100

128 38.5 31.8 47.6

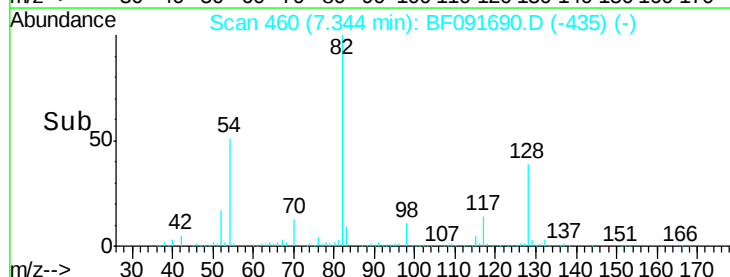
54 50.9 49.1 73.7



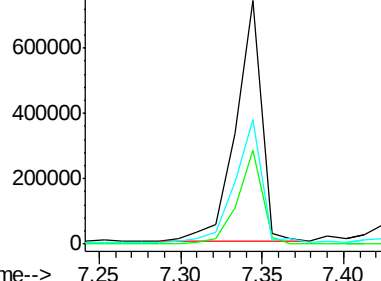
Abundance Ion 82.00 (81.70 to 82.70): BF0

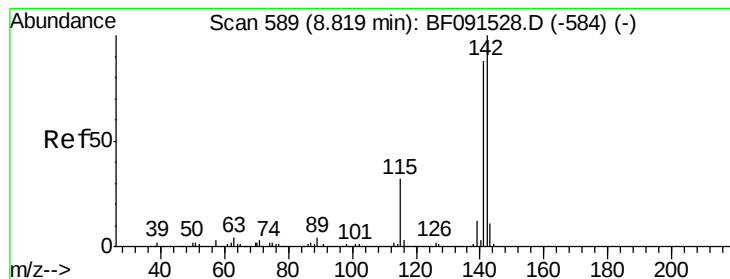
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#37

2-Methylnaphthalene

Concen: 91.59 ng

RT: 8.80 min Scan# 587

Delta R.T. 0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampleId :

T-4

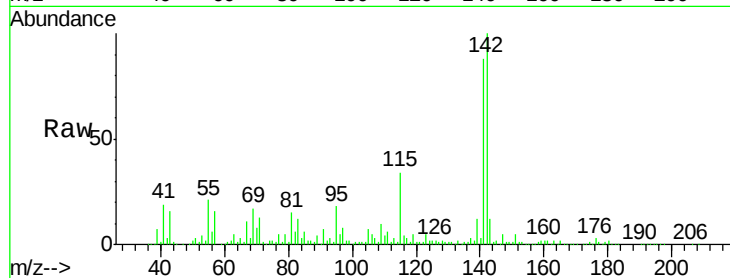
Tot Ion:142 Resp: 1413678

Ion Ratio Lower Upper

142 100

141 88.0 71.7 107.5

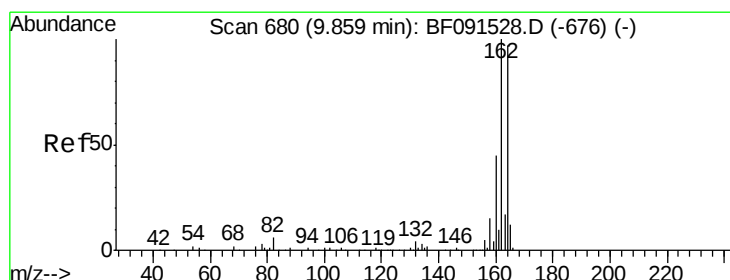
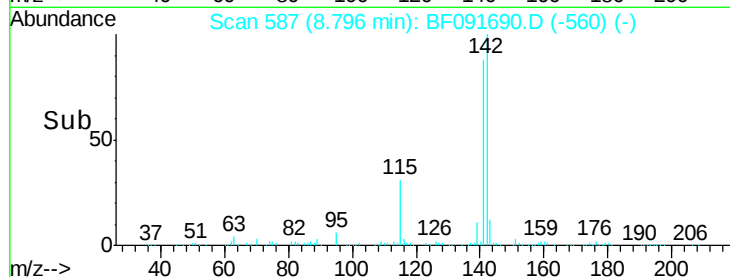
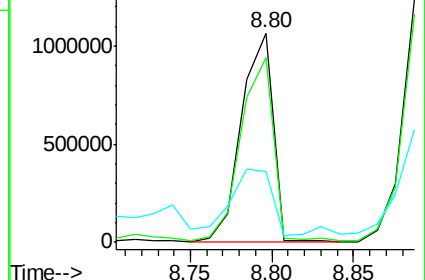
115 33.5 25.0 37.6



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: 9.84 min Scan# 678

Delta R.T. 0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

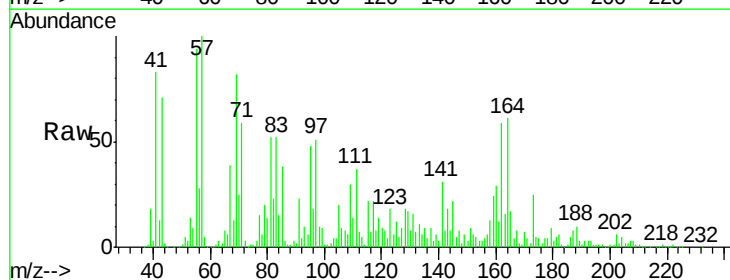
Tgt Ion:164 Resp: 338411

Ion Ratio Lower Upper

164 100

162 96.6 82.6 124.0

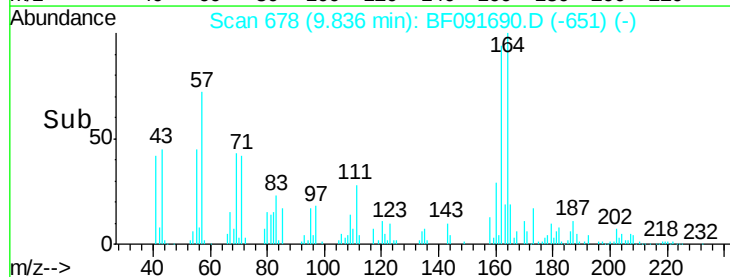
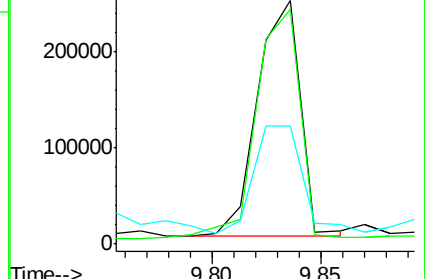
160 48.3 36.7 55.1

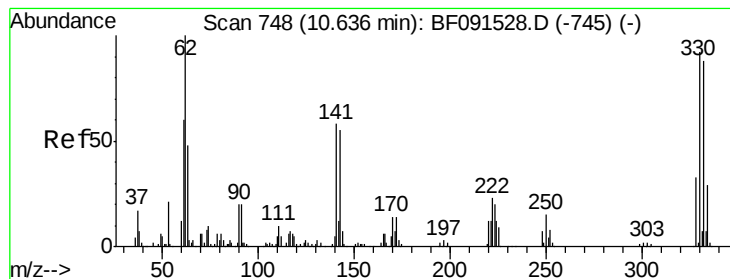


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 100.10 ng

RT: 10.62 min Scan# 747

Delta R.T. 0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampleId :

T-4

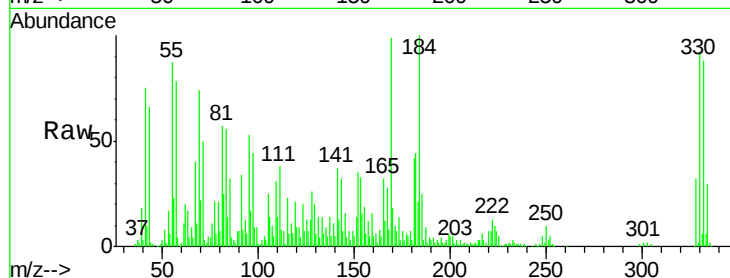
Tot Ion:330 Resp: 281363

Ion Ratio Lower Upper

330 100

332 95.8 76.2 114.4

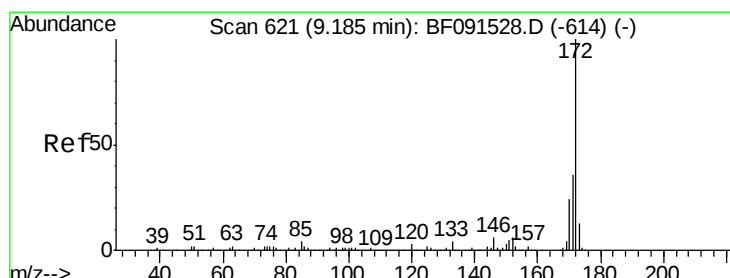
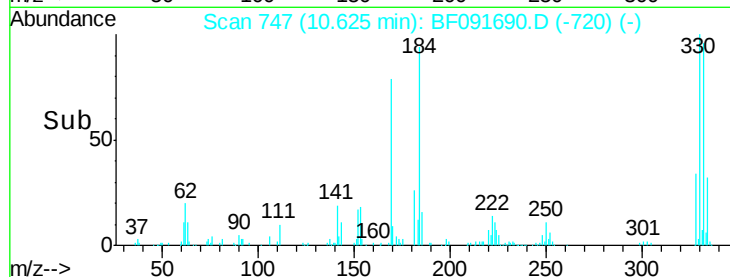
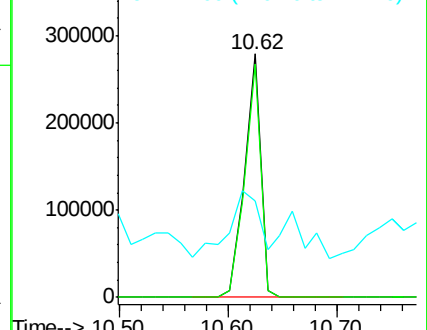
141 56.9 33.6 50.4#



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: 72.56 ng

RT: 9.15 min Scan# 618

Delta R.T. -0.00 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

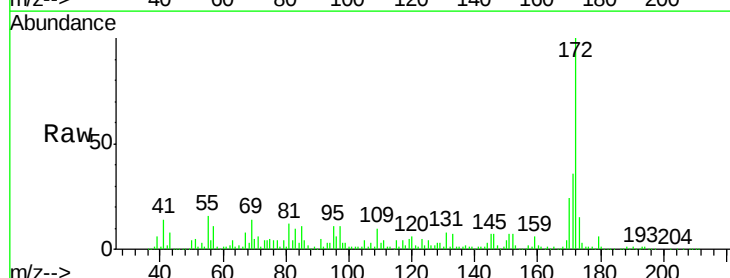
Tgt Ion:172 Resp: 1421126

Ion Ratio Lower Upper

172 100

171 35.6 29.4 44.0

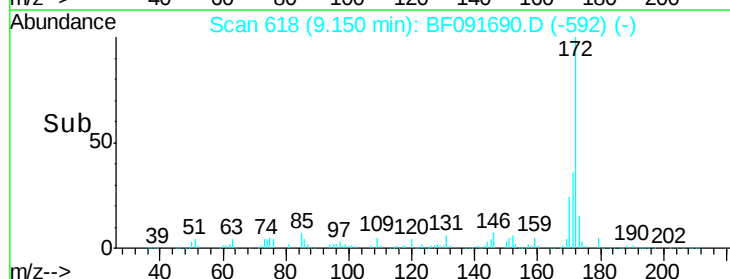
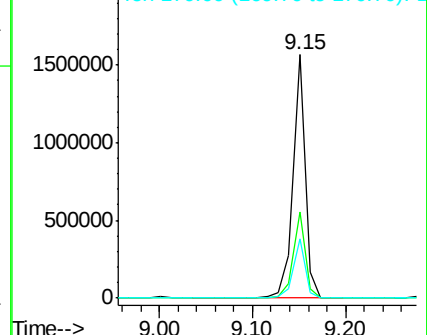
170 24.1 19.7 29.5

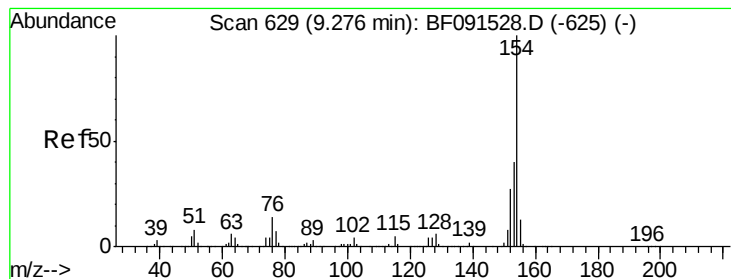


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 7.66 ng

RT: 9.25 min Scan# 627

Delta R.T. -0.00 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampled :

T-4

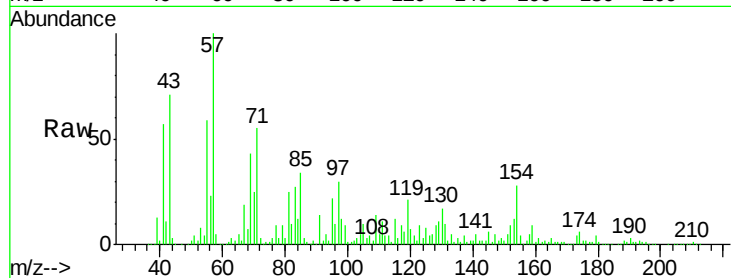
Tot Ion:154 Resp: 187717

Ion Ratio Lower Upper

154 100

153 42.7 20.6 60.6

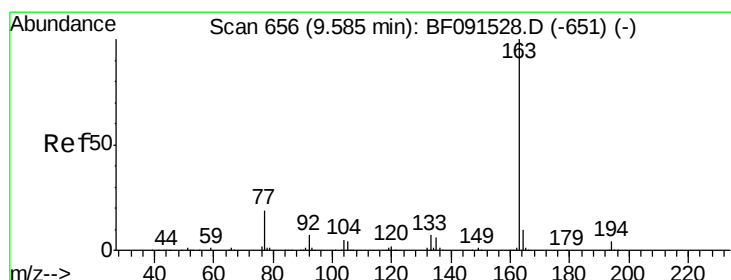
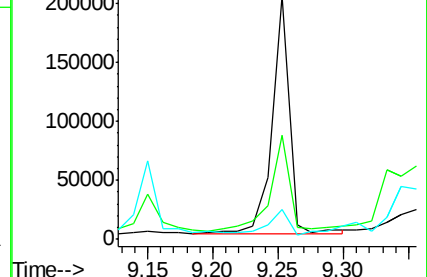
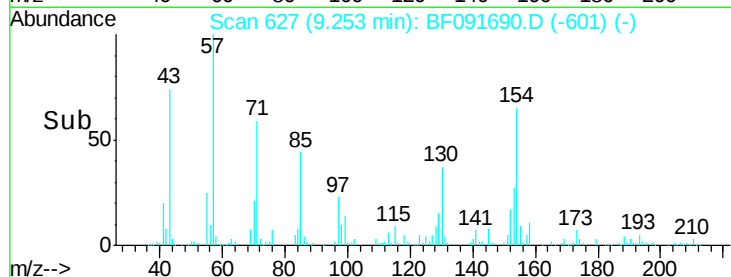
76 12.3 0.0 36.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#49

Dimethylphthalate

Concen: 7.73 ng

RT: 9.55 min Scan# 653

Delta R.T. -0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

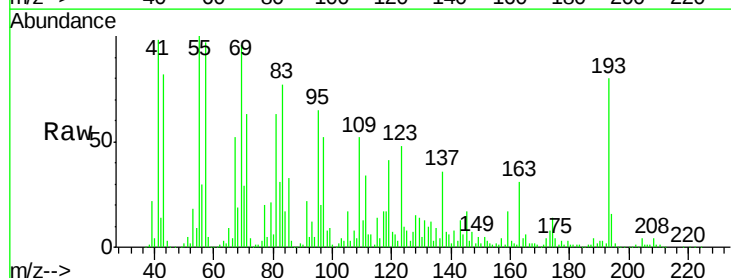
Tgt Ion:163 Resp: 165630

Ion Ratio Lower Upper

163 100

194 49.5 3.0 4.4#

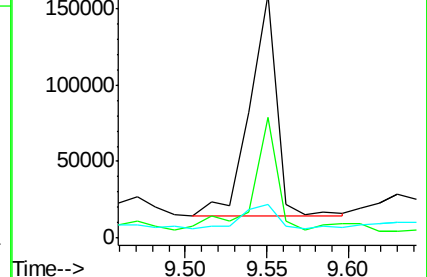
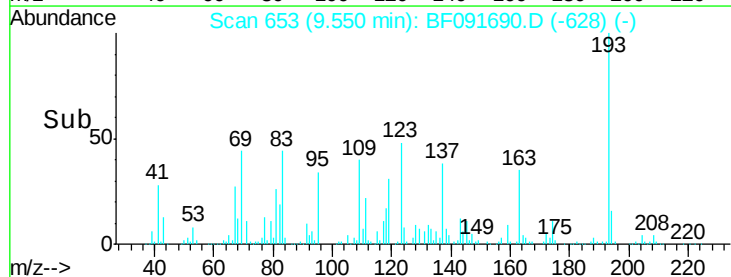
164 13.8 7.8 11.8#

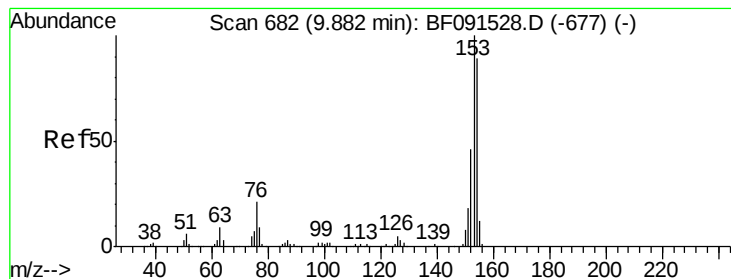


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 12.06 ng

RT: 9.86 min Scan# 680

Delta R.T. -0.00 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampleId :

T-4

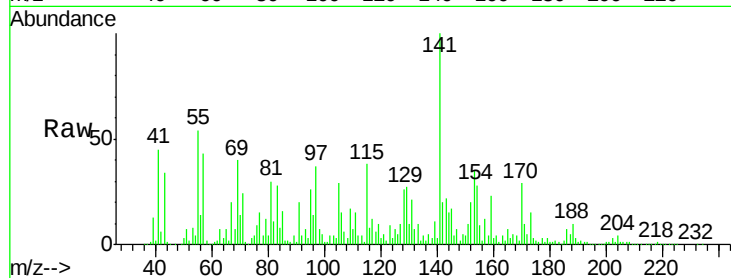
Tot Ion:154 Resp: 242397

Ion Ratio Lower Upper

154 100

153 124.6 91.0 136.6

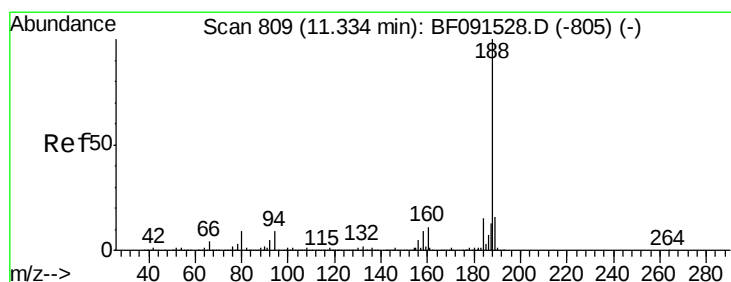
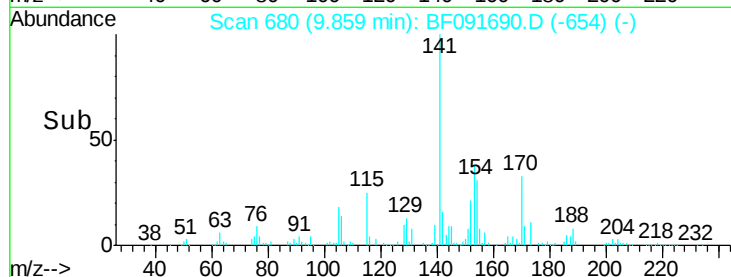
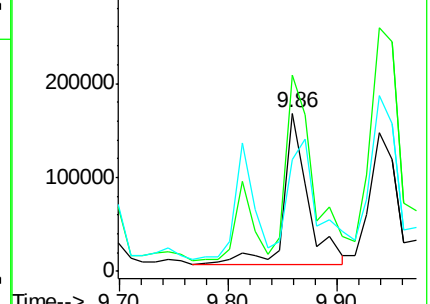
152 70.7 44.2 66.2#



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.00 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

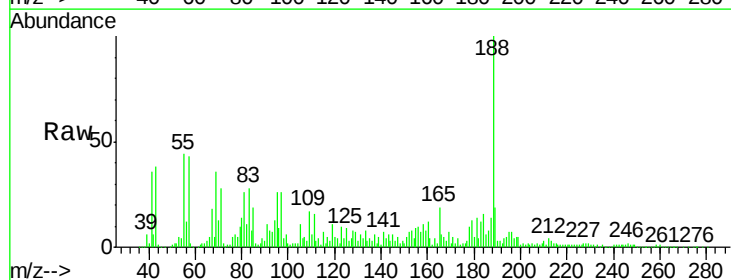
Tgt Ion:188 Resp: 491894

Ion Ratio Lower Upper

188 100

94 13.1 9.2 13.8

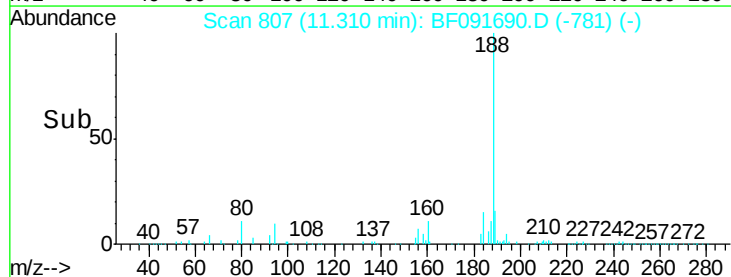
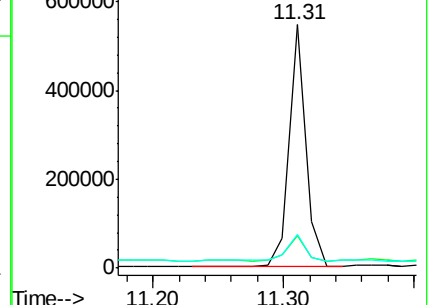
80 13.9 10.5 15.7

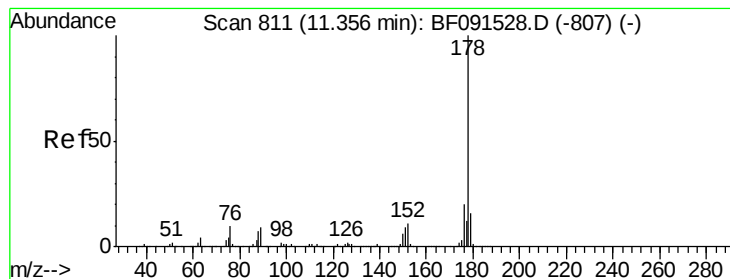


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 51.29 ng

RT: 11.33 min Scan# 809

Delta R.T. -0.00 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampleId :

T-4

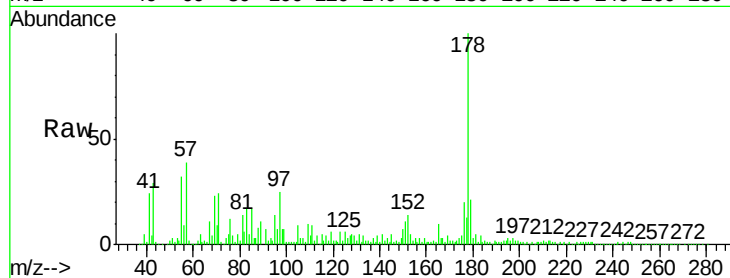
Tot Ion:178 Resp: 1249392

Ion Ratio Lower Upper

178 100

176 20.0 15.9 23.9

179 20.6 12.6 18.8#



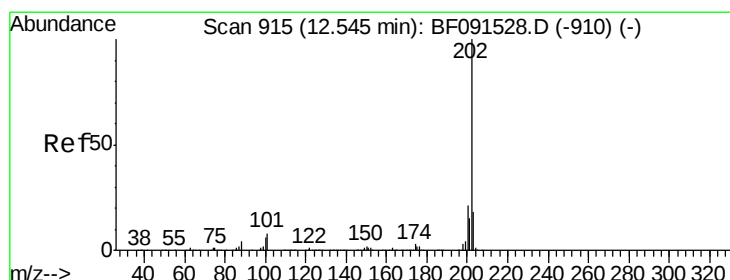
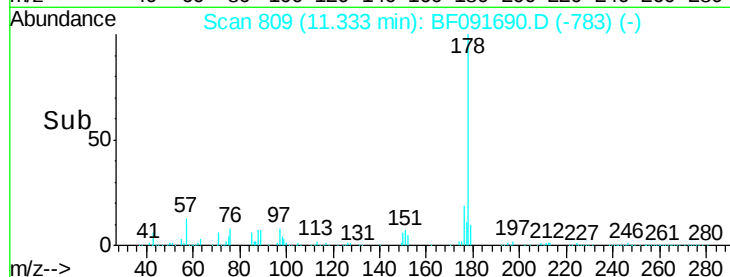
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

11.33

Time-->



#74

Fluoranthene

Concen: 8.87 ng

RT: 12.51 min Scan# 912

Delta R.T. -0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

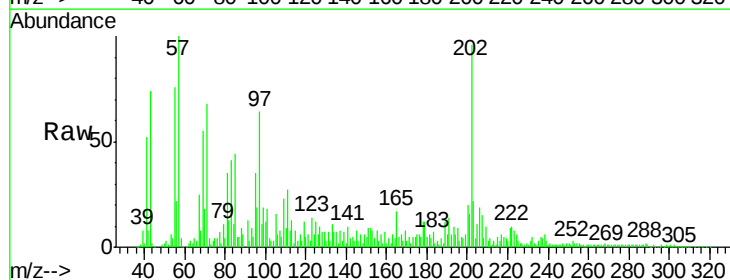
Tgt Ion:202 Resp: 226239

Ion Ratio Lower Upper

202 100

101 19.2 0.0 29.5

203 22.7 0.0 37.8



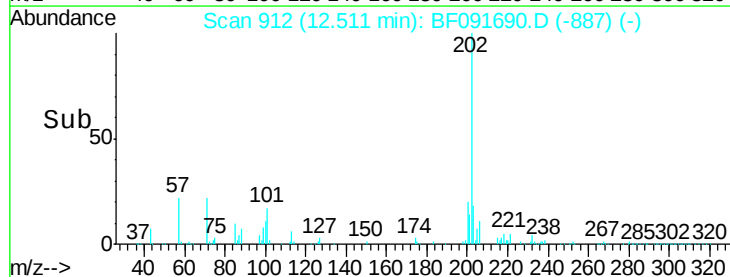
Abundance Ion 202.00 (201.70 to 202.70): E

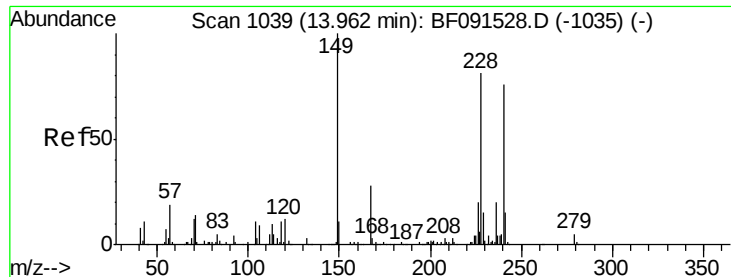
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

12.51

Time-->





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.93 min Scan# 1036

Delta R.T. -0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampleId :

T-4

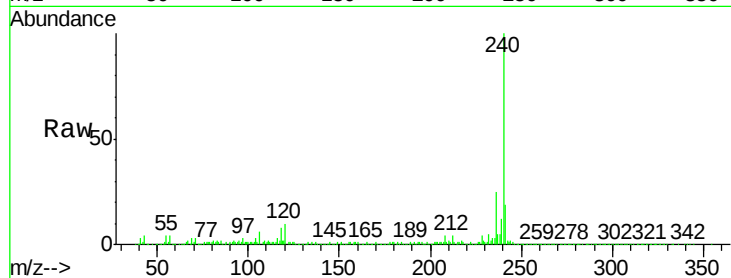
Tot Ion:240 Resp: 531229

Ion Ratio Lower Upper

240 100

120 9.6 12.1 18.1#

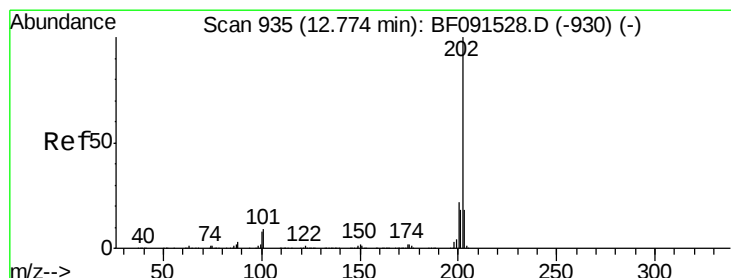
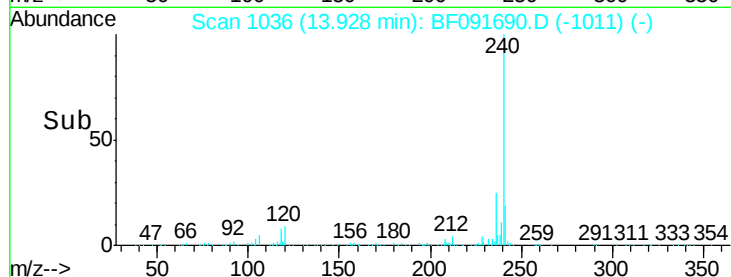
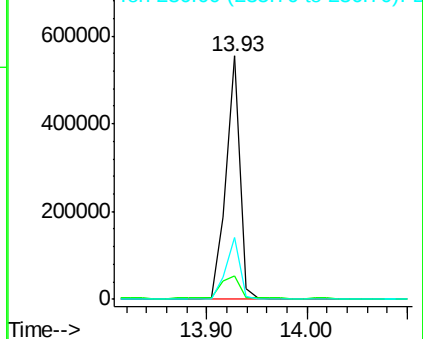
236 25.5 21.0 31.6



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: 12.34 ng

RT: 12.74 min Scan# 932

Delta R.T. -0.00 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

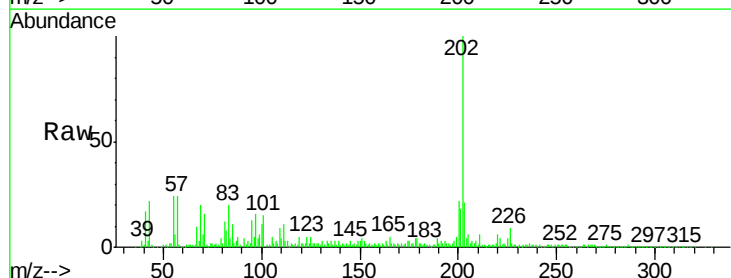
Tgt Ion:202 Resp: 520194

Ion Ratio Lower Upper

202 100

200 21.7 17.6 26.4

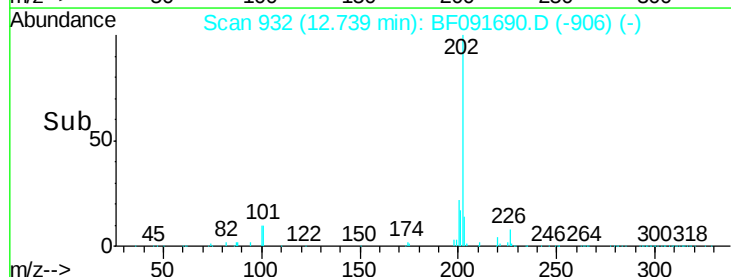
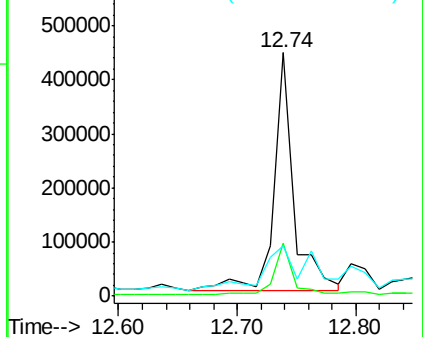
203 20.6 14.0 21.0

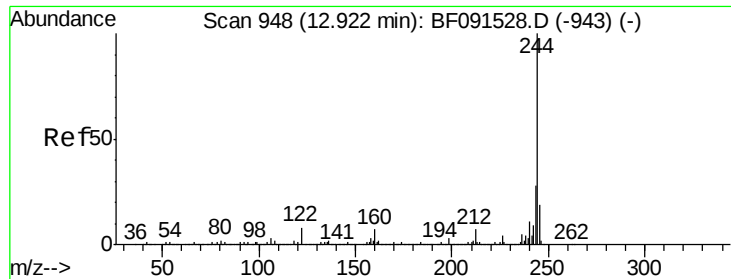


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 49.44 ng

RT: 12.89 min Scan# 945

Delta R.T. -0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampleId :

T-4

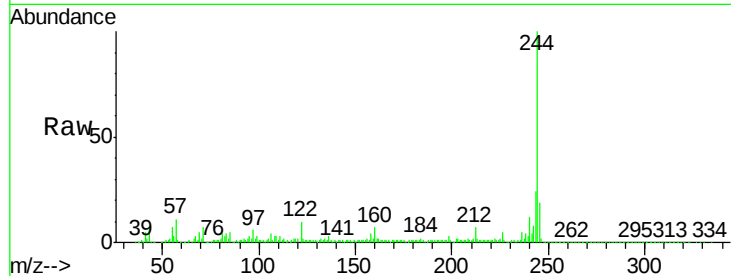
Tot Ion:244 Resp: 1157453

Ion Ratio Lower Upper

244 100

212 7.2 6.5 9.7

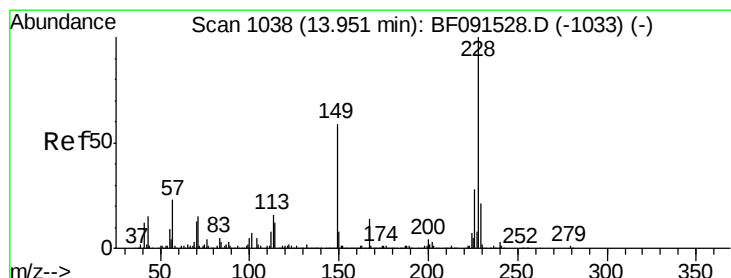
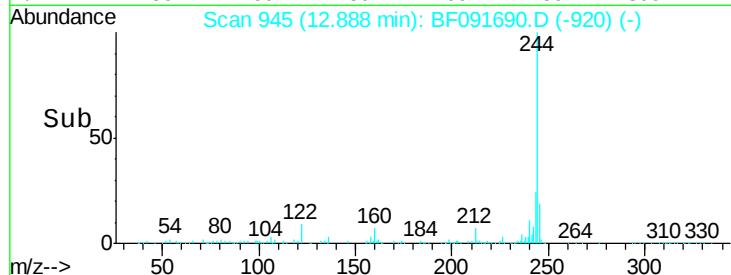
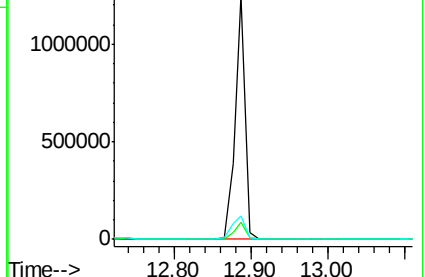
122 9.8 9.5 14.3



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: 3.77 ng

RT: 13.92 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

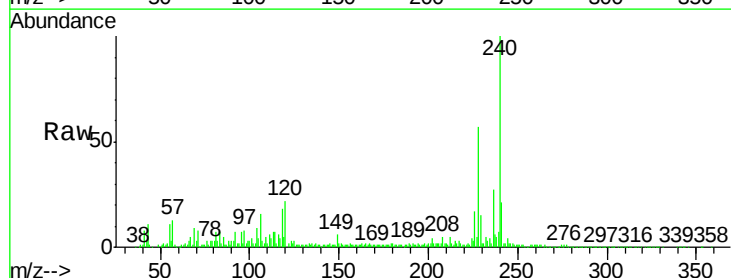
Tgt Ion:228 Resp: 116259

Ion Ratio Lower Upper

228 100

226 29.6 22.5 33.7

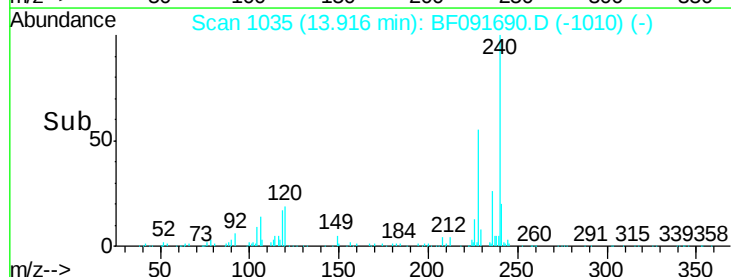
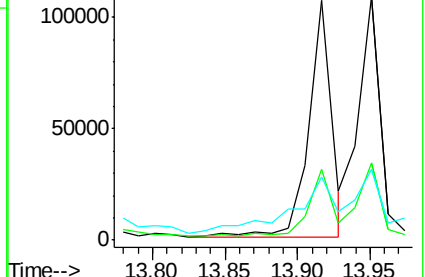
229 26.2 16.4 24.6#

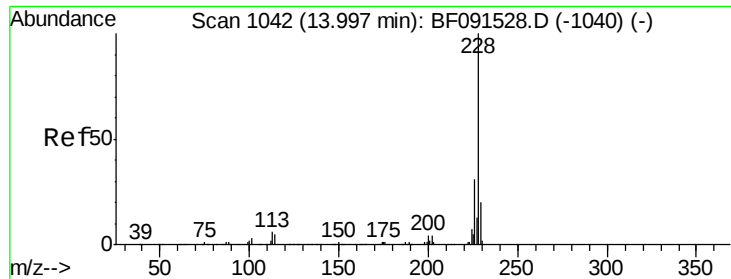


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.53 ng/mL

RT: 13.95 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampleId :

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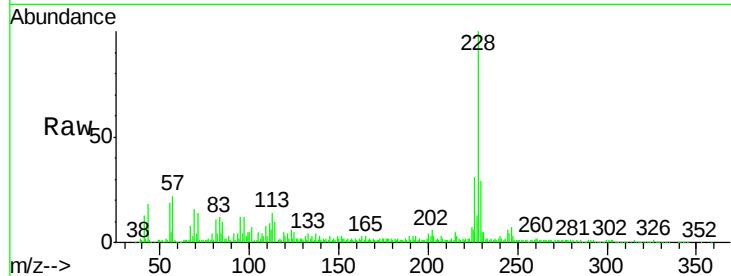
Tot Ion:228 Resp: 113967

Ion Ratio Lower Upper

228 100

226 31.5 25.0 37.4

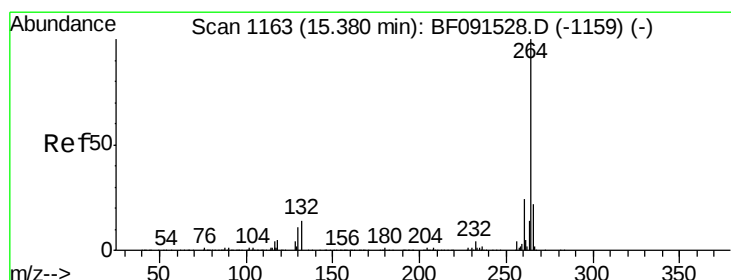
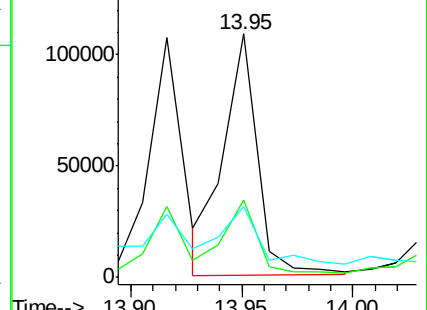
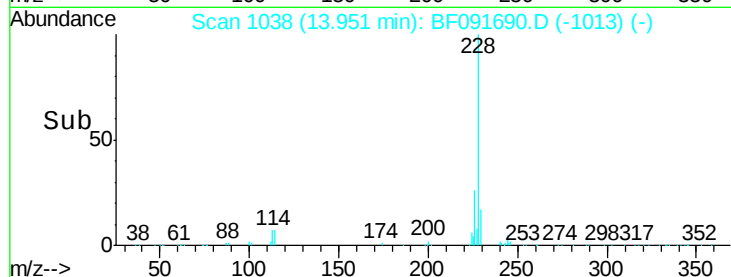
229 29.0 16.0 24.0#



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



#86

Perylene-d12

Concen: 20.00 ng/mL

RT: 15.32 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

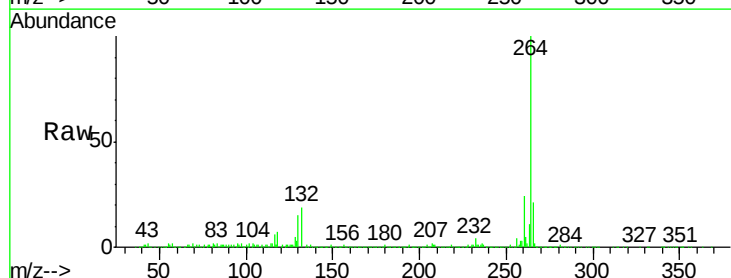
Tgt Ion:264 Resp: 484388

Ion Ratio Lower Upper

264 100

260 23.8 18.8 28.2

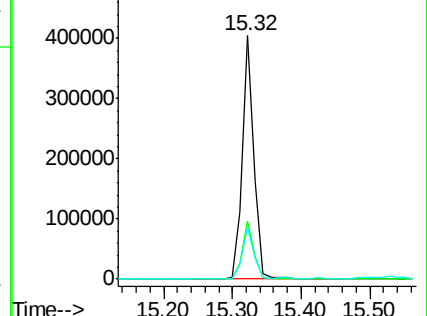
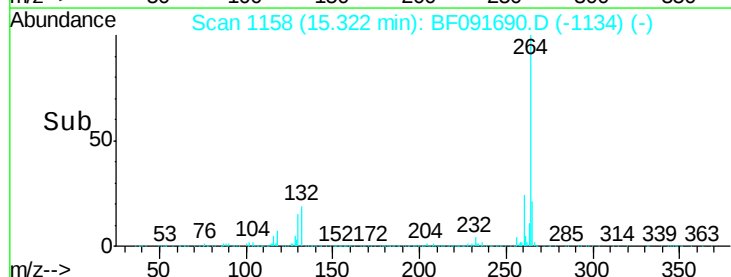
265 21.3 17.0 25.6

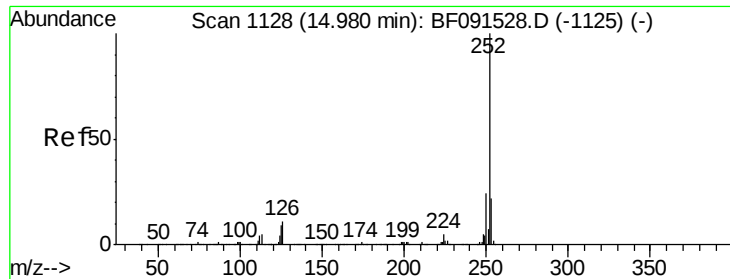


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 4.71 ng

RT: 14.92 min Scan# 1123

Delta R.T. -0.02 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

Instrument :

BNA_F

ClientSampleId :

T-4

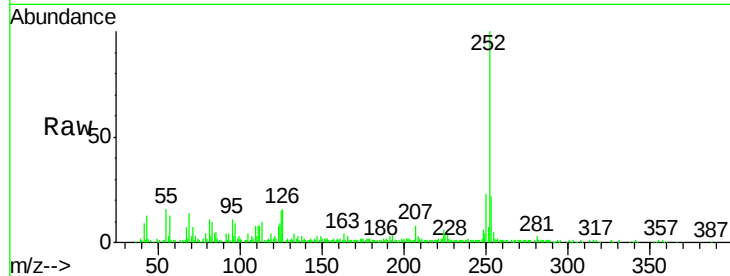
Tot Ion:252 Resp: 135873

Ion Ratio Lower Upper

252 100

253 22.5 18.2 27.2

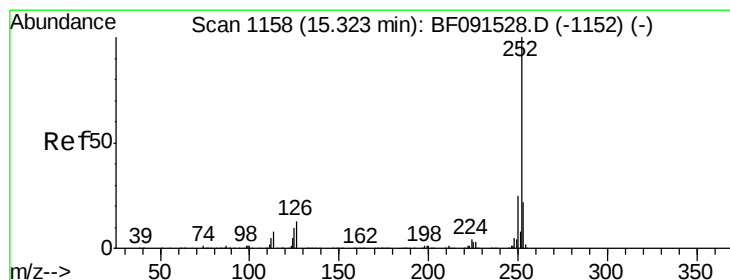
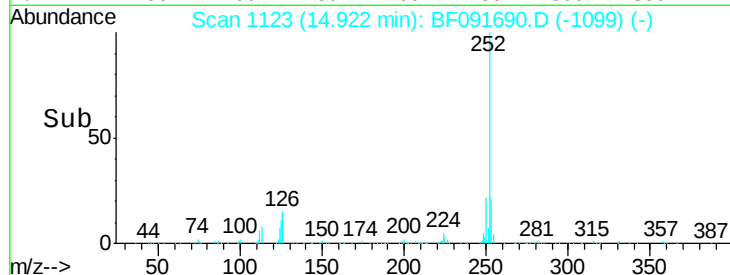
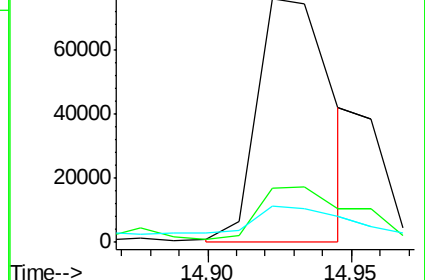
125 14.7 8.6 13.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 3.31 ng

RT: 15.27 min Scan# 1153

Delta R.T. -0.02 min

Lab File: BF091690.D

Acq: 16 Dec 2016 23:17

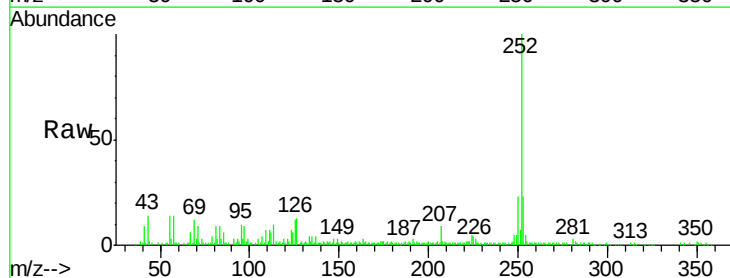
Tgt Ion:252 Resp: 86137

Ion Ratio Lower Upper

252 100

253 22.7 18.2 27.4

125 12.3 10.4 15.6



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

