

Data Path : Z:\HPCHEM1\BNA F\Data\BF040317\
 Data File : BF094162.D
 Acq On : 4 Apr 2017 11:44
 Operator : SJ/MA
 Sample : I2510-14 5X
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 04 12:44:16 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	166376	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	613968	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	233481	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	358659	20.00	ng	-0.02
75) Chrysene-d12	14.62	240	310043	20.00	ng	-0.01
86) Perylene-d12	16.25	264	212066	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.42	112	195179	19.81	ng	-0.02
7) Phenol-d6	5.49	99	242824	19.93	ng	-0.02
23) Nitrobenzene-d5	6.53	82	113958	10.59	ng	-0.03
41) 2,4,6-Tribromophenol	10.50	330	30477	16.52	ng	-0.02
44) 2-Fluorobiphenyl	8.71	172	234884	15.34	ng	-0.02
78) Terphenyl-d14	13.33	244	137789	9.96	ng	-0.02

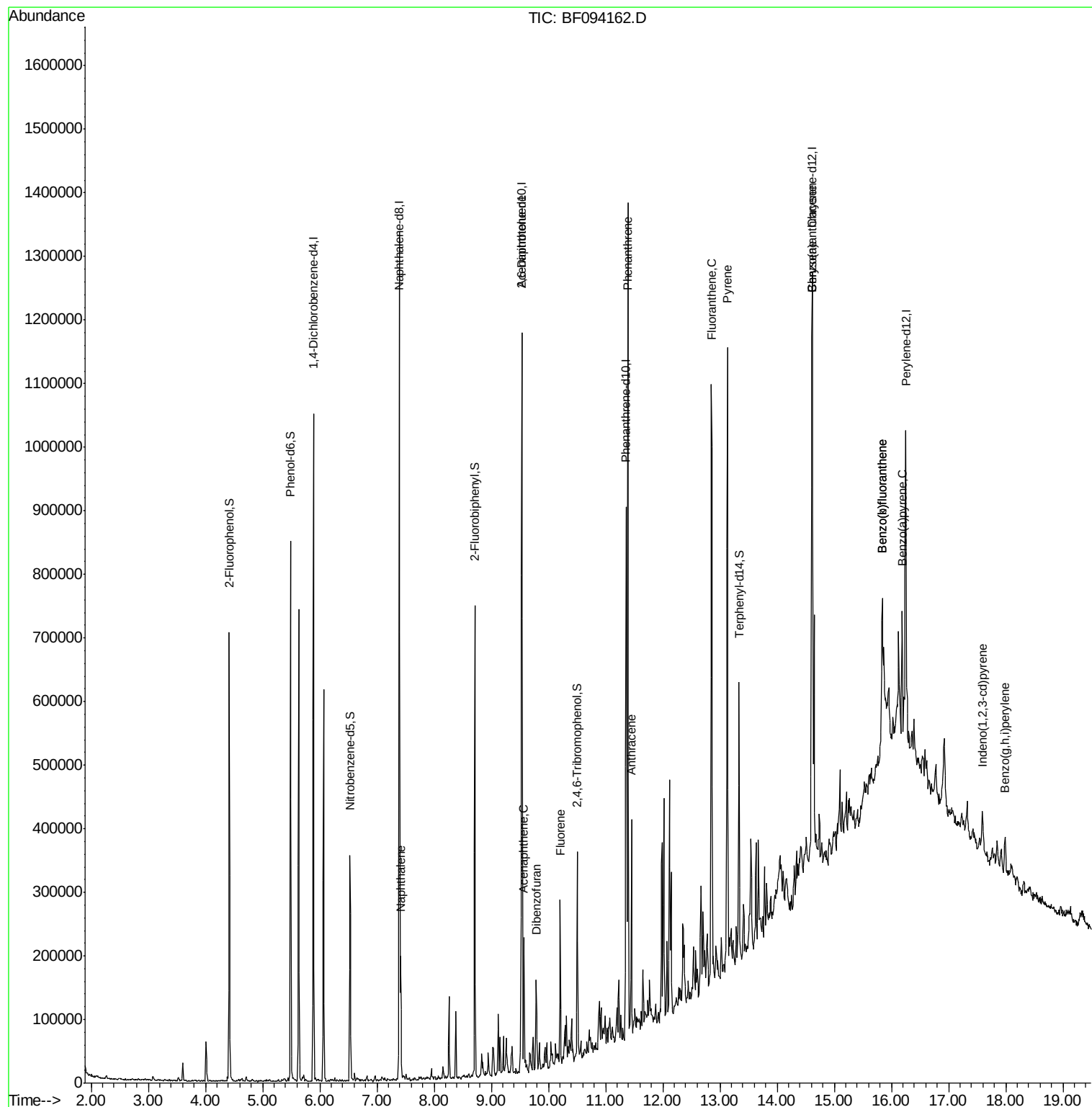
Target Compounds				Qvalue		
31) Naphthalene	7.42	128	77785	2.63	ng	99
50) 2,6-Dinitrotoluene	9.53	165	31352	8.24	ng	# 34
51) Acenaphthene	9.57	154	47364	3.31	ng	97
54) Dibenzofuran	9.79	168	48825	2.51	ng	98
57) Fluorene	10.20	166	71170	4.41	ng	97
70) Phenanthrene	11.39	178	570724	28.61	ng	98
71) Anthracene	11.45	178	131051	6.38	ng	98
74) Fluoranthene	12.85	202	429881	21.04	ng	98
77) Pyrene	13.13	202	439919	19.55	ng	96
80) Benzo(a)anthracene	14.60	228	164735	9.11	ng	98
82) Chrysene	14.60	228	164735	9.82	ng	95
85) Indeno(1,2,3-cd)pyrene	17.59	276	41512	2.86	ng	# 93
87) Benzo(b)fluoranthene	15.84	252	149048	11.47	ng	# 92
88) Benzo(k)fluoranthene	15.84	252	149048	11.72	ng	96
89) Benzo(a)pyrene	16.19	252	90075	7.52	ng	# 96
91) Benzo(g,h,i)perylene	17.99	276	43193	4.23	ng	96

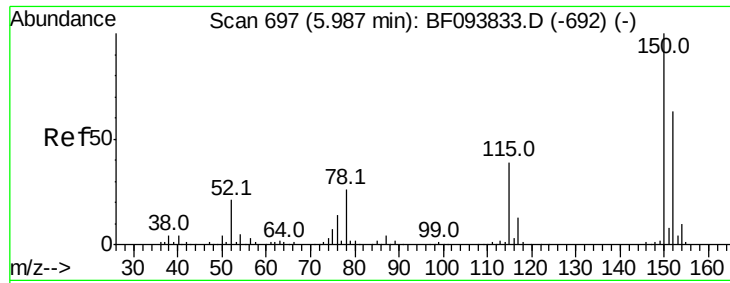
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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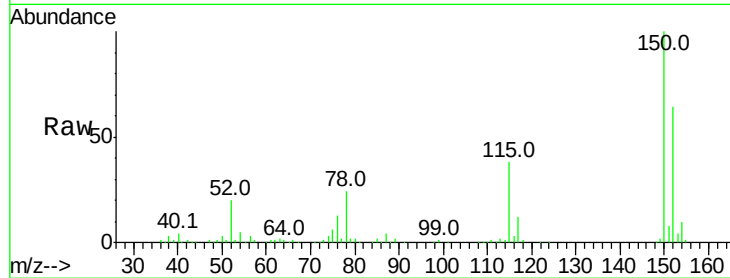


#1

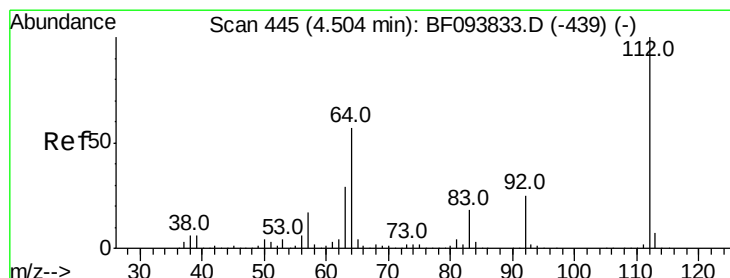
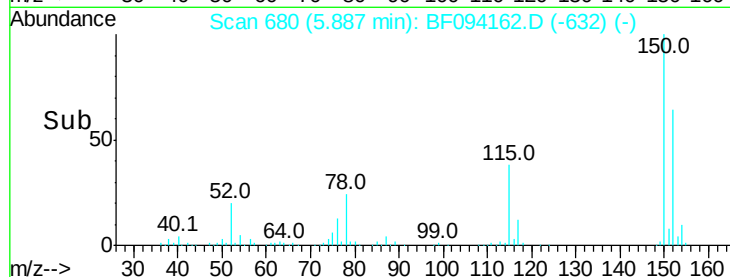
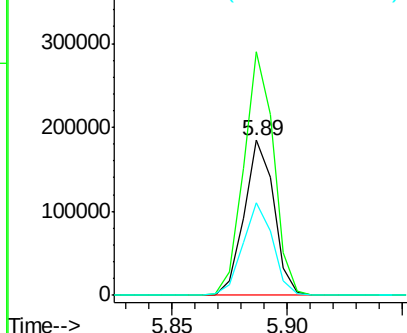
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF094162.D
Acq: 4 Apr 2017 11:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 166376
Ion Ratio Lower Upper
152 100
150 156.9 126.2 189.2
115 60.0 52.2 78.2



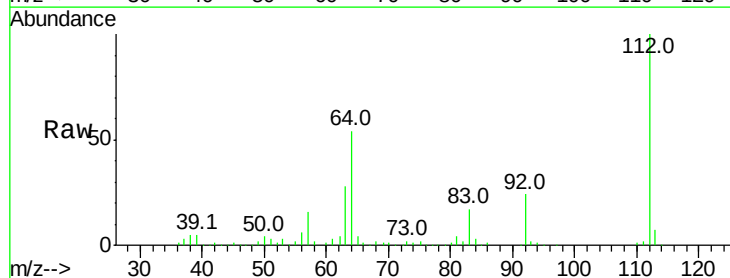
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



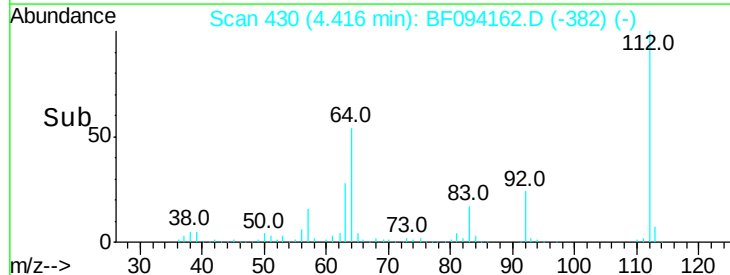
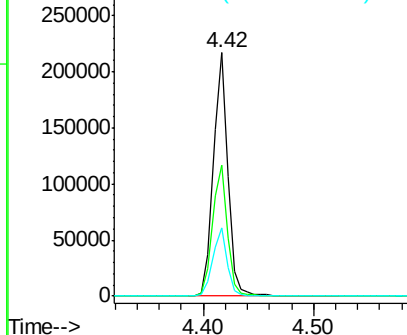
#5

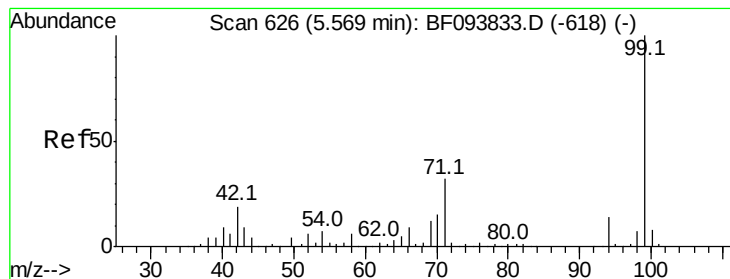
2-Fluorophenol
Concen: 19.81 ng
RT: 4.42 min Scan# 430
Delta R.T. -0.02 min
Lab File: BF094162.D
Acq: 4 Apr 2017 11:44

Tgt Ion:112 Resp: 195179
Ion Ratio Lower Upper
112 100
64 53.8 46.0 69.0
63 28.1 23.4 35.0



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: 19.93 ng

RT: 5.49 min Scan# 612

Delta R.T. -0.02 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Instrument :

BNA_F

ClientSampleId :

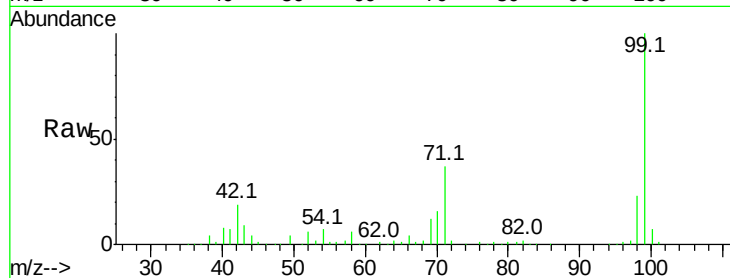
Tot Ion: 99 Resp: 242824

Ion Ratio Lower Upper

99 100

42 19.2 13.5 20.3

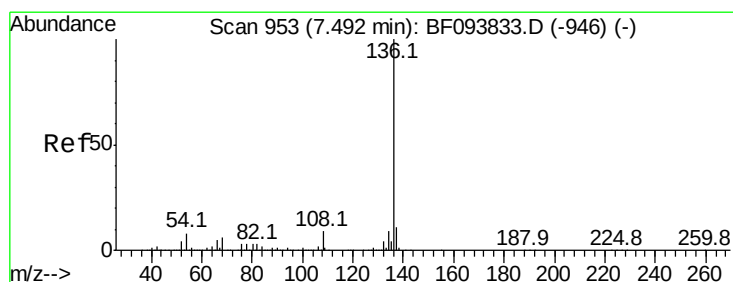
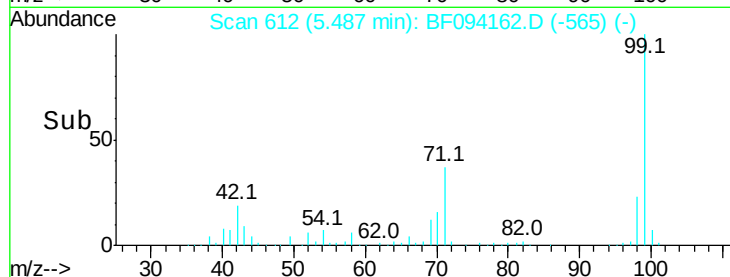
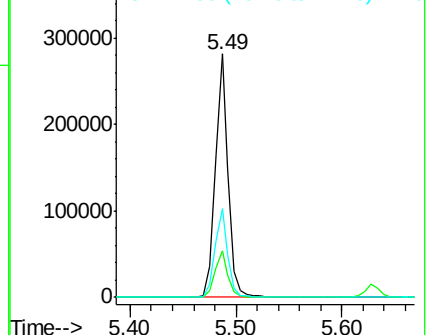
71 36.7 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.39 min Scan# 936

Delta R.T. -0.02 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Tgt Ion: 136 Resp: 613968

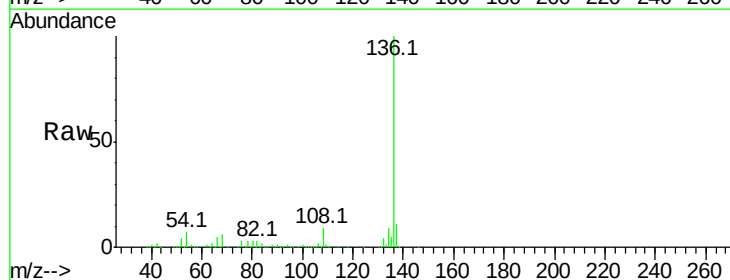
Ion Ratio Lower Upper

136 100

137 10.6 8.5 12.7

54 7.2 4.9 7.3

68 5.8 4.1 6.1

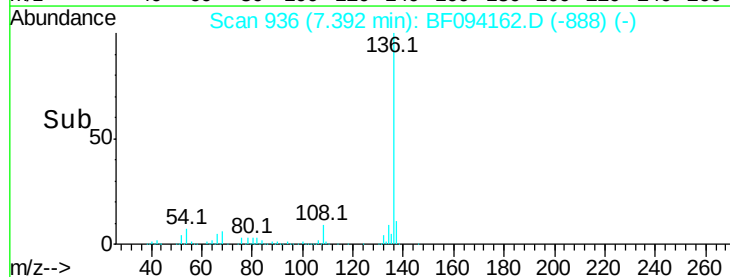
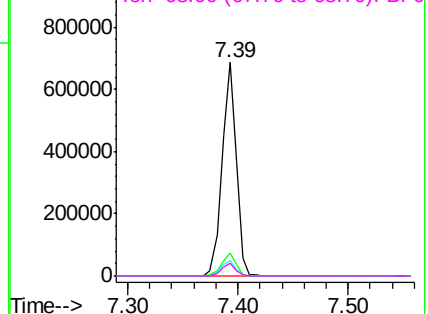


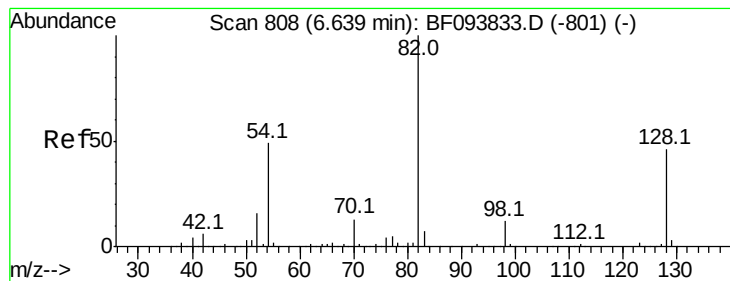
Abundance Ion 136.00 (135.70 to 136.70): E

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: 10.59 ng

RT: 6.53 min Scan# 789

Delta R.T. -0.03 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Instrument :

BNA_F

ClientSampleId :

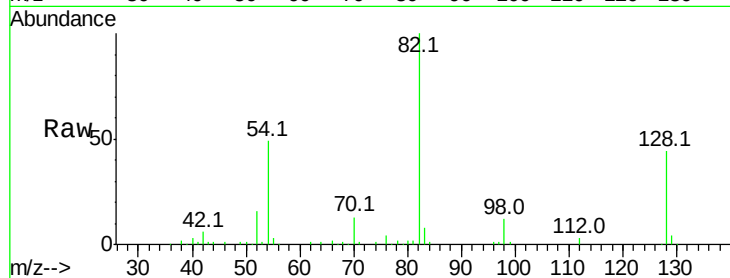
Tot Ion: 82 Resp: 113958

Ion Ratio Lower Upper

82 100

128 44.2 34.0 51.0

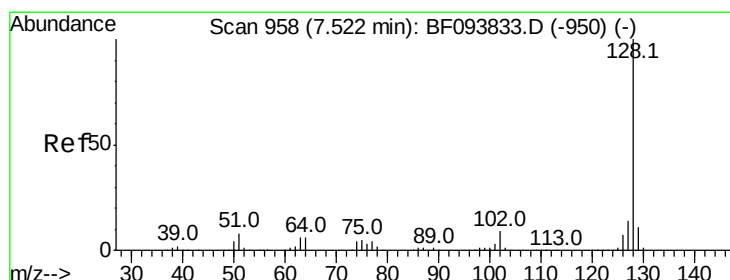
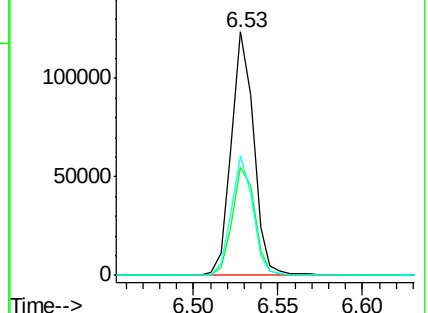
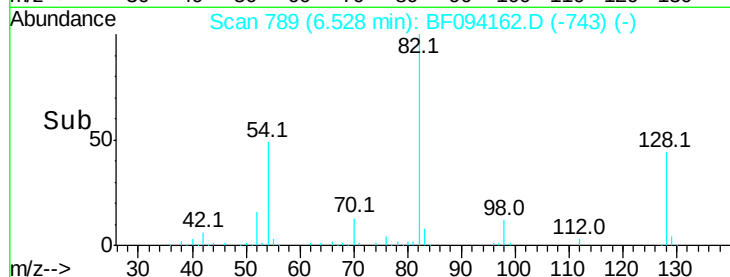
54 49.2 42.2 63.2



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: 2.63 ng

RT: 7.42 min Scan# 940

Delta R.T. -0.02 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

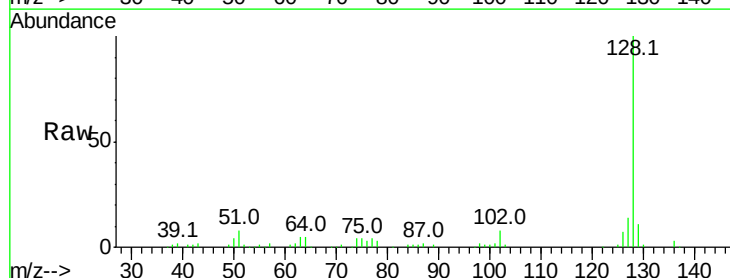
Tgt Ion: 128 Resp: 77785

Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.6

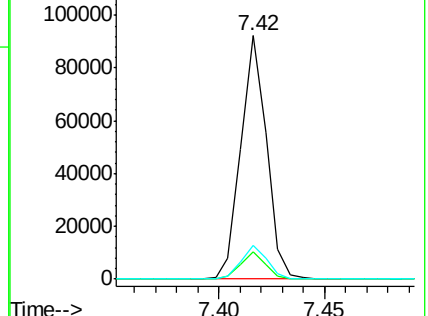
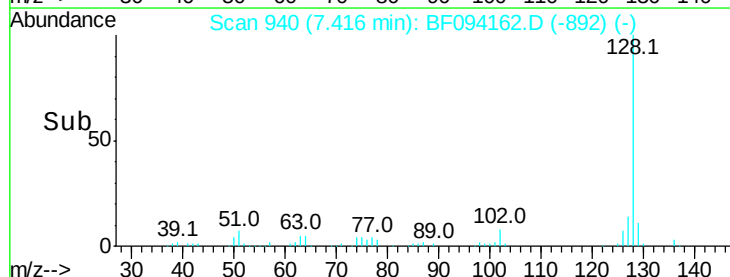
127 13.8 10.8 16.2

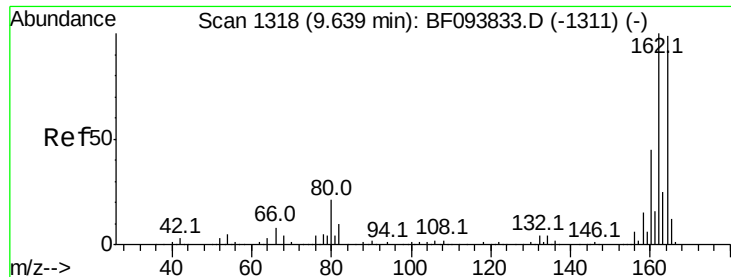


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

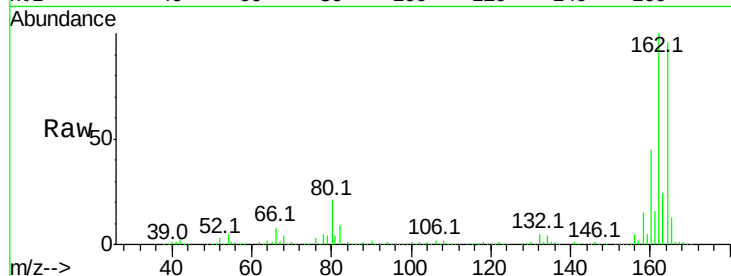




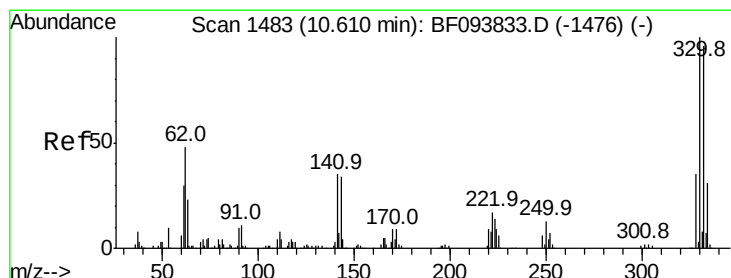
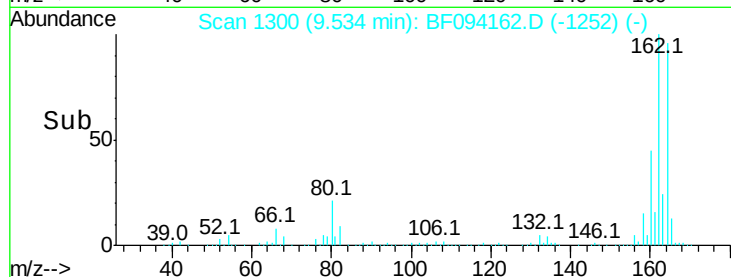
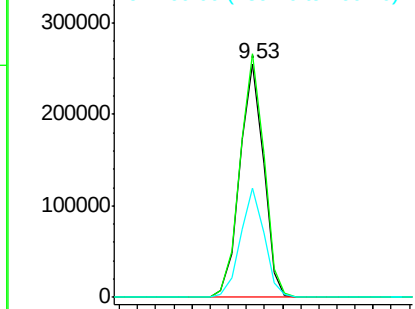
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094162.D
 Acq: 4 Apr 2017 11:44

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 233481
 Ion Ratio Lower Upper
 164 100
 162 104.1 82.6 123.8
 160 46.7 36.2 54.2

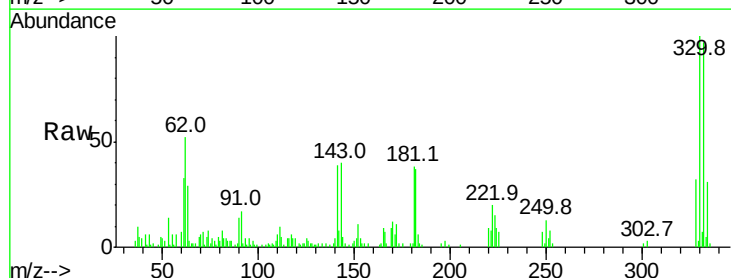


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

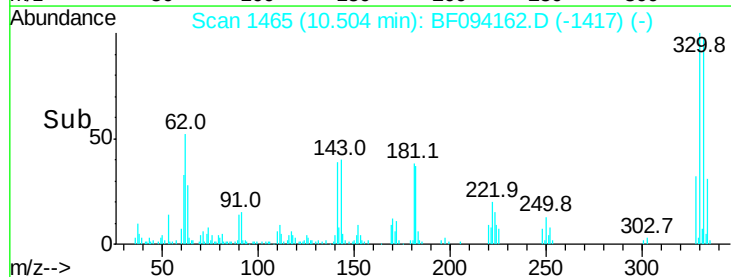
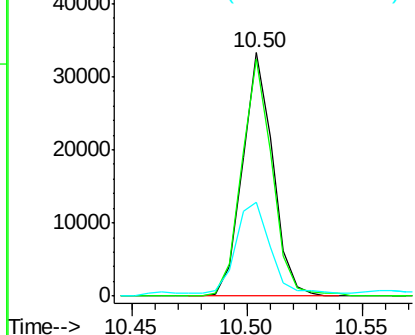


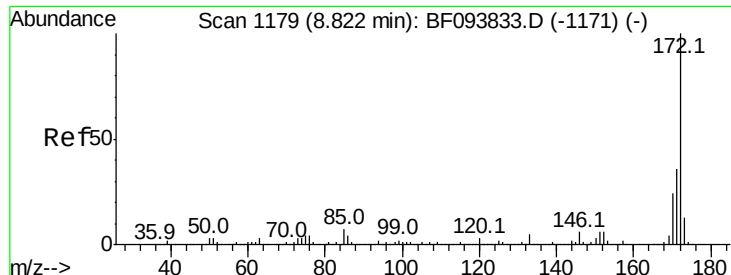
#41
 2,4,6-Tribromophenol
 Concen: 16.52 ng
 RT: 10.50 min Scan# 1465
 Delta R.T. -0.02 min
 Lab File: BF094162.D
 Acq: 4 Apr 2017 11:44

Tgt Ion:330 Resp: 30477
 Ion Ratio Lower Upper
 330 100
 332 98.1 76.6 115.0
 141 42.9 31.4 47.2



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

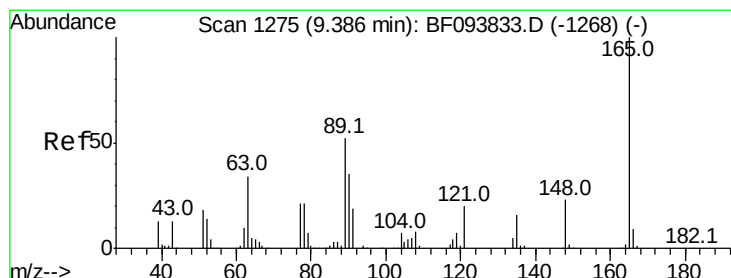
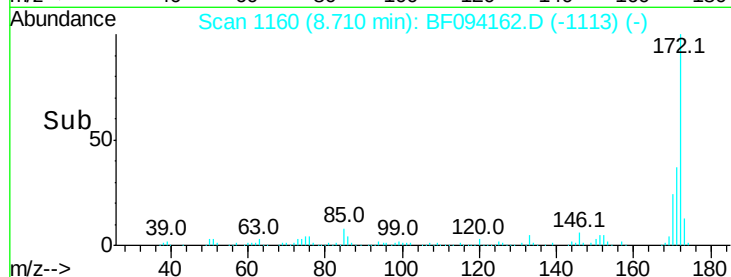
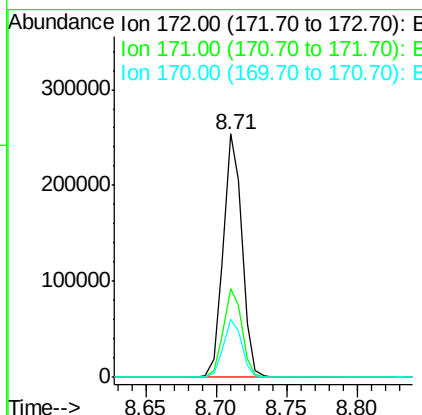
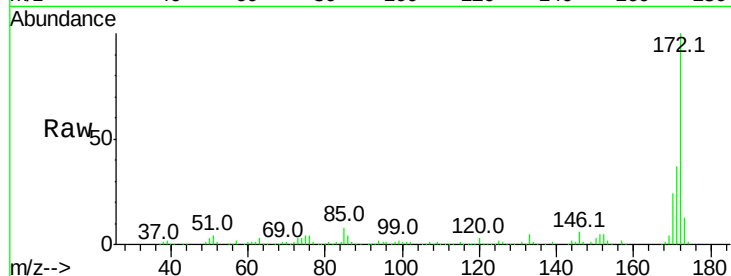




#44
 2-Fluorobiphenyl
 Concen: 15.34 ng
 RT: 8.71 min Scan# 1160
 Delta R.T. -0.02 min
 Lab File: BF094162.D
 Acq: 4 Apr 2017 11:44

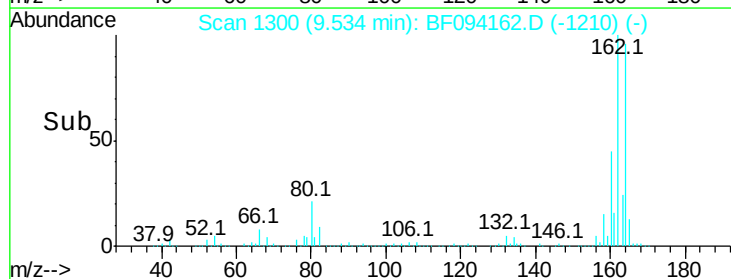
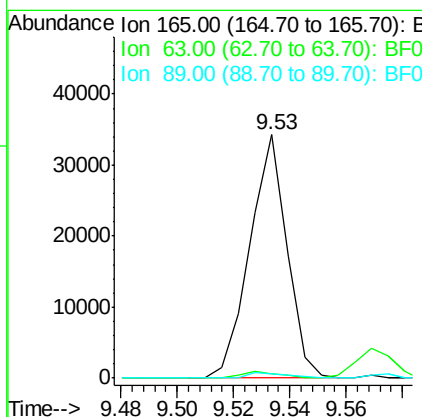
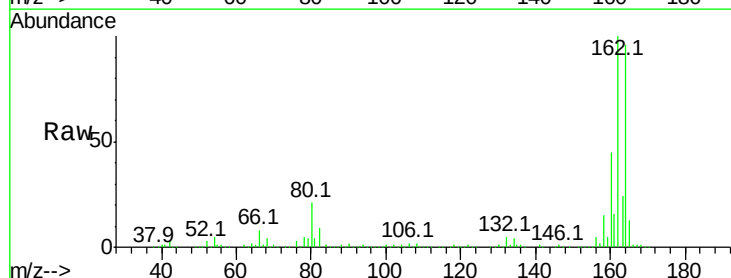
Instrument :
 BNA_F
 ClientSampleId :

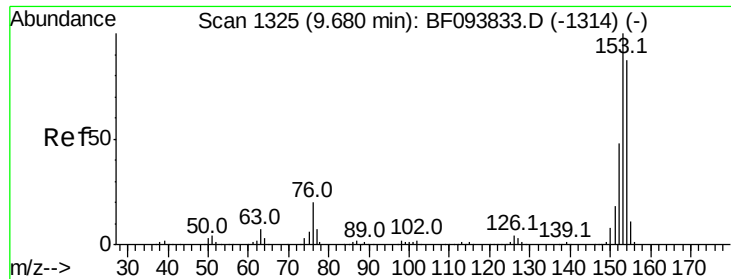
Tot Ion:172 Resp: 234884
 Ion Ratio Lower Upper
 172 100
 171 36.6 29.6 44.4
 170 23.9 19.8 29.8



#50
 2,6-Dinitrotoluene
 Concen: 8.24 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. 0.23 min
 Lab File: BF094162.D
 Acq: 4 Apr 2017 11:44

Tgt Ion:165 Resp: 31352
 Ion Ratio Lower Upper
 165 100
 63 1.6 34.3 51.5#
 89 1.5 37.1 55.7#





#51

Acenaphthene

Concen: 3.31 ng

RT: 9.57 min Scan# 1306

Delta R.T. -0.02 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Instrument :

BNA_F

ClientSampleId :

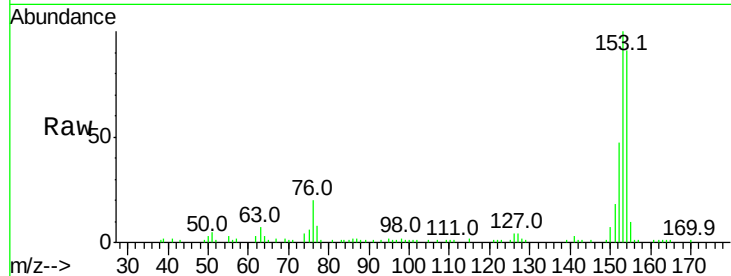
Tot Ion:154 Resp: 47364

Ion Ratio Lower Upper

154 100

153 110.4 90.5 135.7

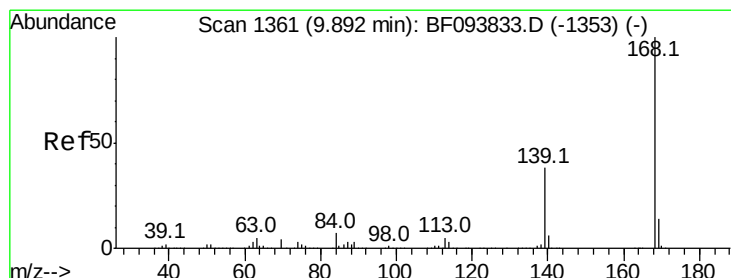
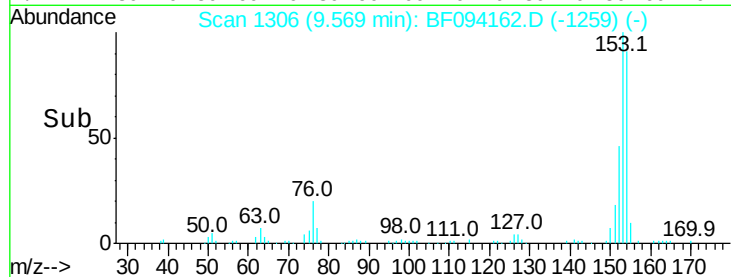
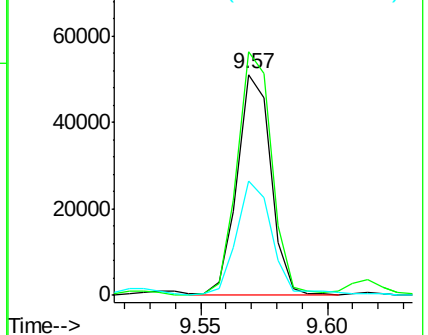
152 51.7 43.6 65.4



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



#54

Dibenzofuran

Concen: 2.51 ng

RT: 9.79 min Scan# 1343

Delta R.T. -0.02 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

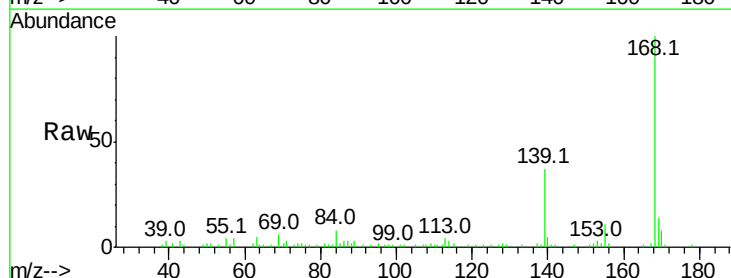
Tgt Ion:168 Resp: 48825

Ion Ratio Lower Upper

168 100

139 36.5 30.6 45.8

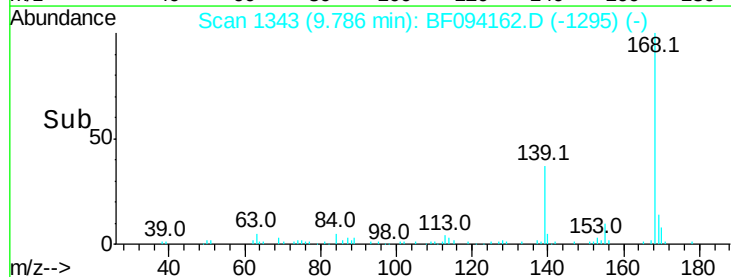
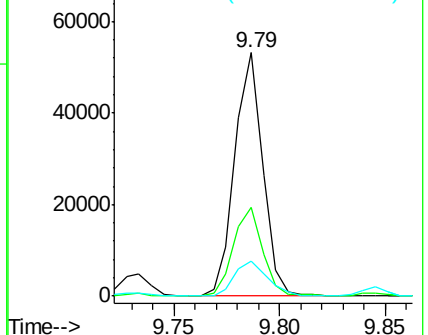
169 14.2 10.8 16.2

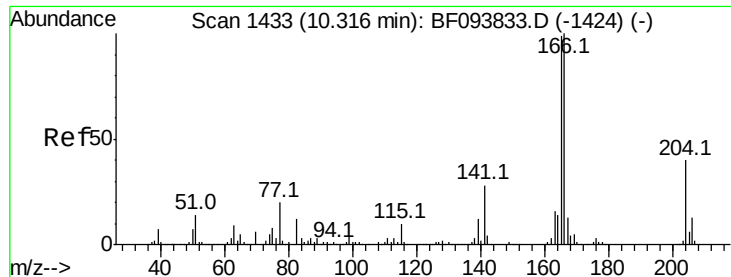


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

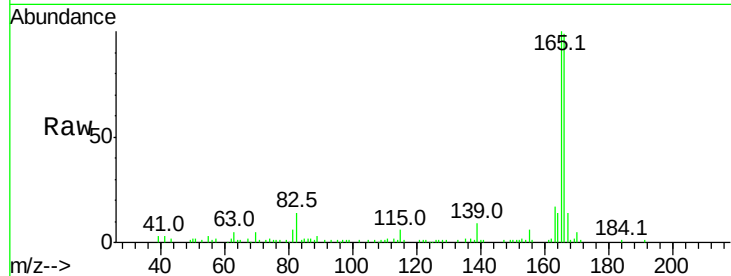




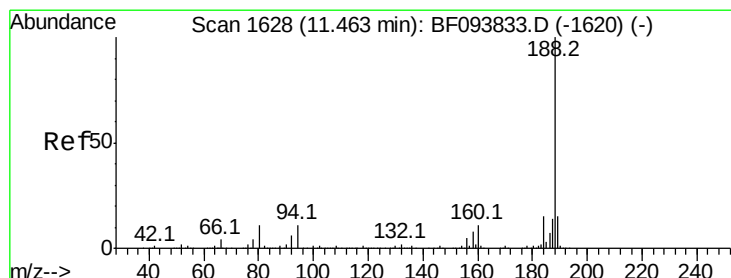
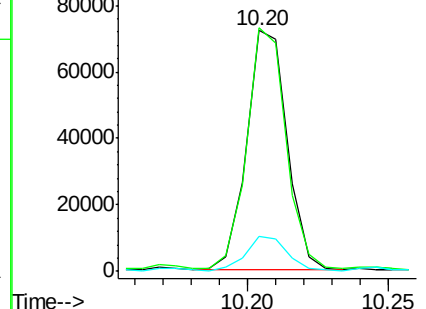
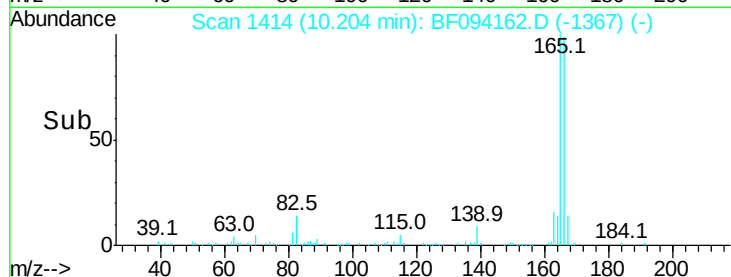
#57
 Fluorene
 Concen: 4.41 ng
 RT: 10.20 min Scan# 1414
 Delta R.T. -0.02 min
 Lab File: BF094162.D
 Acq: 4 Apr 2017 11:44

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:166 Resp: 71170
 Ion Ratio Lower Upper
 166 100
 165 101.2 78.8 118.2
 167 14.4 10.6 16.0

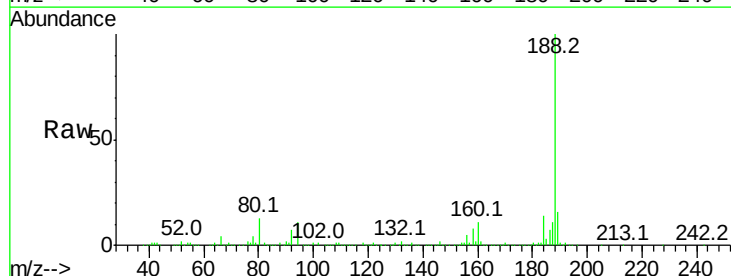


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

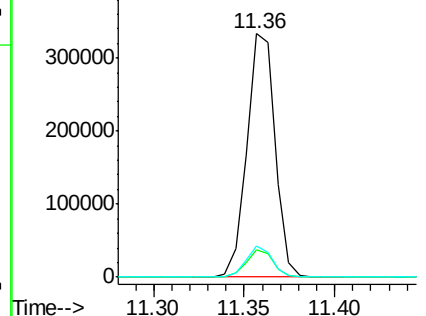
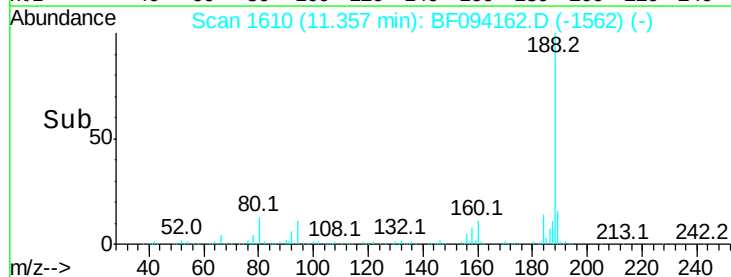


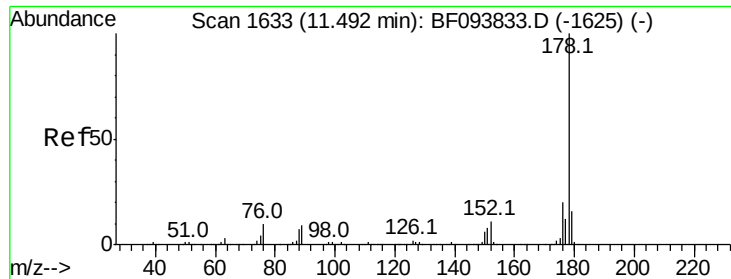
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 1610
 Delta R.T. -0.02 min
 Lab File: BF094162.D
 Acq: 4 Apr 2017 11:44

Tgt Ion:188 Resp: 358659
 Ion Ratio Lower Upper
 188 100
 94 11.4 9.4 14.2
 80 12.7 10.2 15.2



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: 28.61 ng

RT: 11.39 min Scan# 1616

Delta R.T. -0.01 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Instrument :

BNA_F

ClientSampleId :

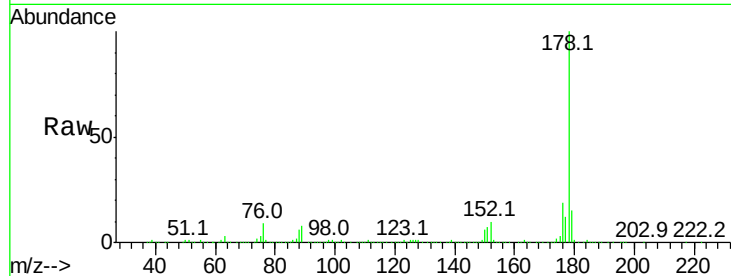
Tot Ion:178 Resp: 570724

Ion Ratio Lower Upper

178 100

176 19.3 16.2 24.4

179 15.4 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

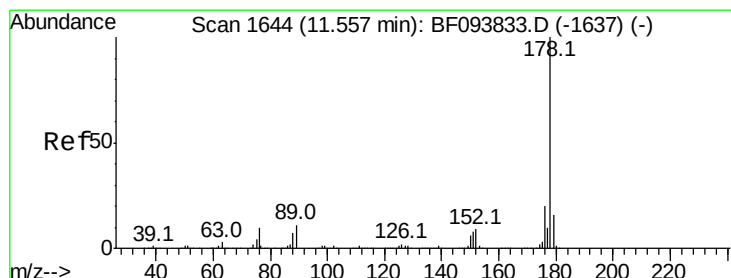
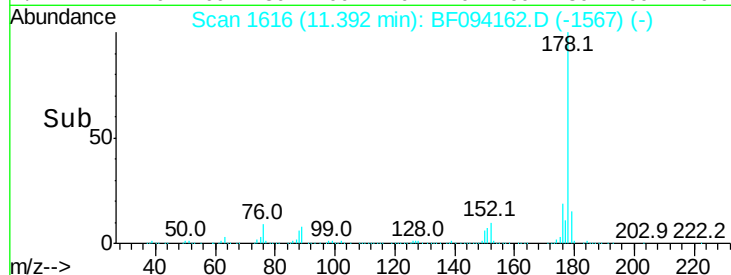
11.39

200000

400000

600000

Time-->



#71

Anthracene

Concen: 6.38 ng

RT: 11.45 min Scan# 1626

Delta R.T. -0.02 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

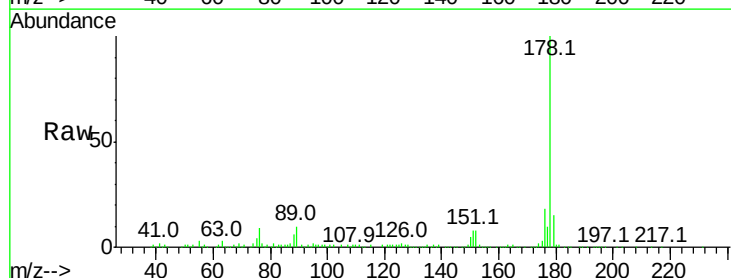
Tgt Ion:178 Resp: 131051

Ion Ratio Lower Upper

178 100

176 18.3 15.8 23.8

179 15.3 12.7 19.1



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

11.45

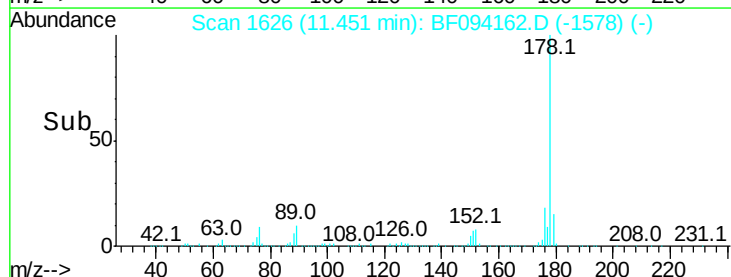
50000

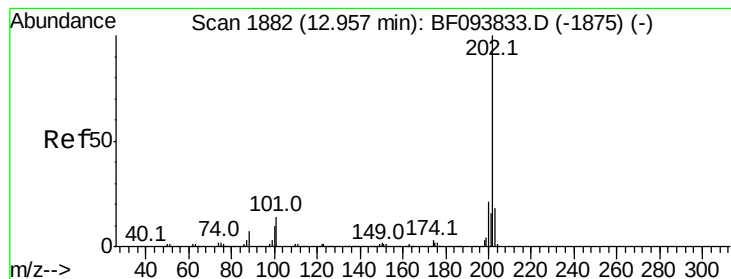
100000

150000

200000

Time-->





#74

Fluoranthene

Concen: 21.04 ng

RT: 12.85 min Scan# 1864

Delta R.T. -0.02 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Instrument :

BNA_F

ClientSampleId :

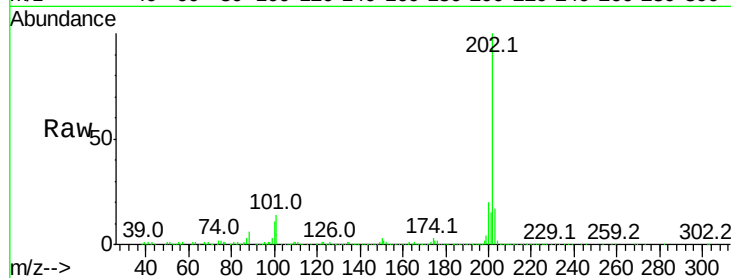
Tot Ion:202 Resp: 429881

Ion Ratio Lower Upper

202 100

101 14.3 0.0 33.2

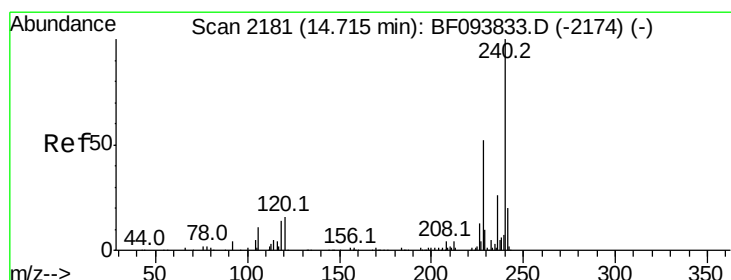
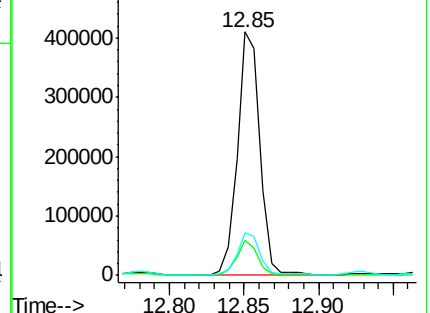
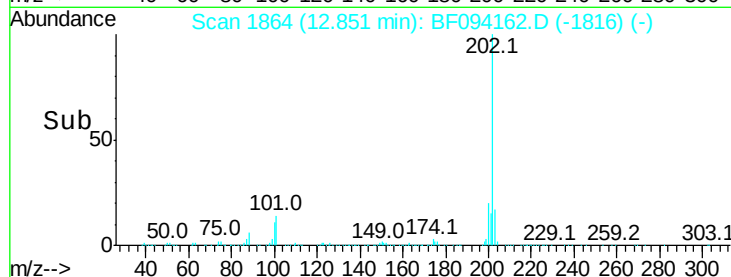
203 17.5 0.0 38.1



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: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

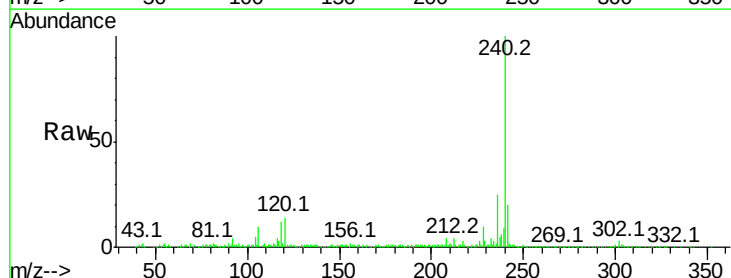
Tgt Ion:240 Resp: 310043

Ion Ratio Lower Upper

240 100

120 14.5 5.8 8.8#

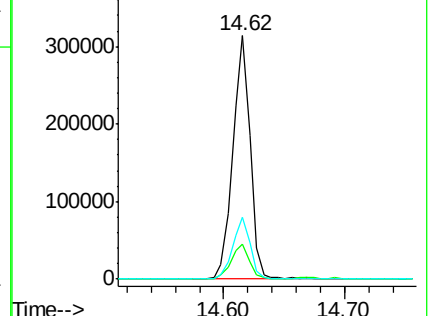
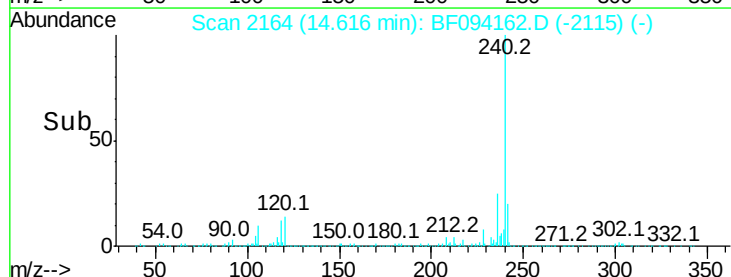
236 25.4 20.5 30.7

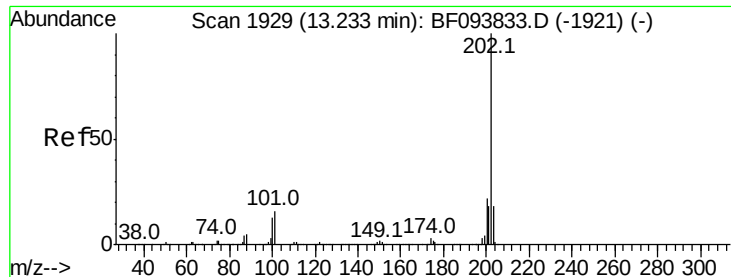


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 19.55 ng

RT: 13.13 min Scan# 1911

Delta R.T. -0.02 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Instrument :

BNA_F

ClientSampleId :

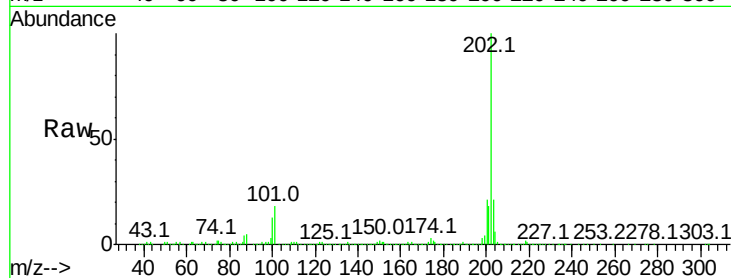
Tot Ion:202 Resp: 439919

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

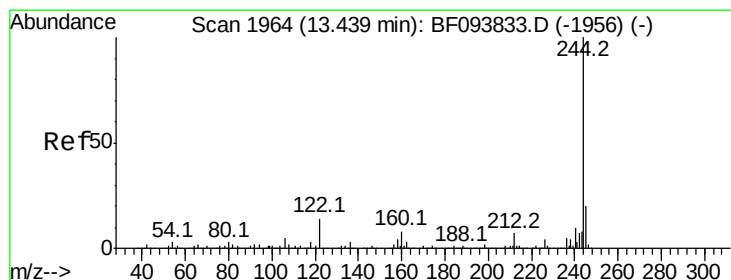
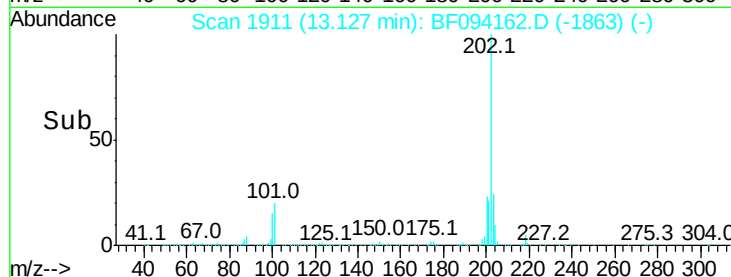
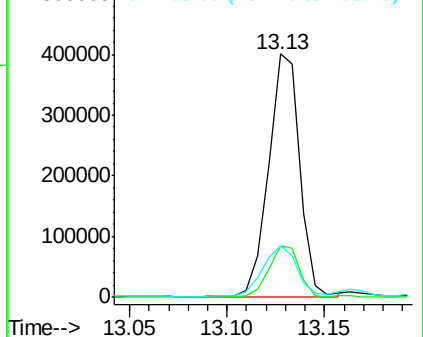
203 21.1 14.4 21.6



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: 9.96 ng

RT: 13.33 min Scan# 1946

Delta R.T. -0.02 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

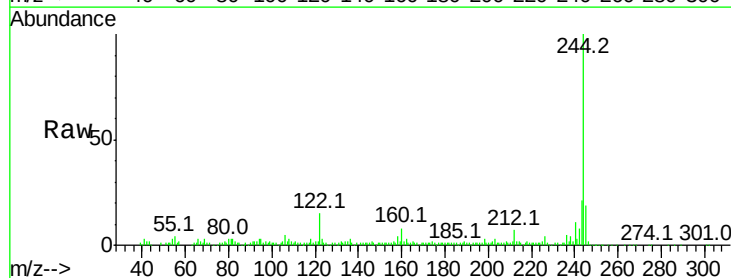
Tgt Ion:244 Resp: 137789

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

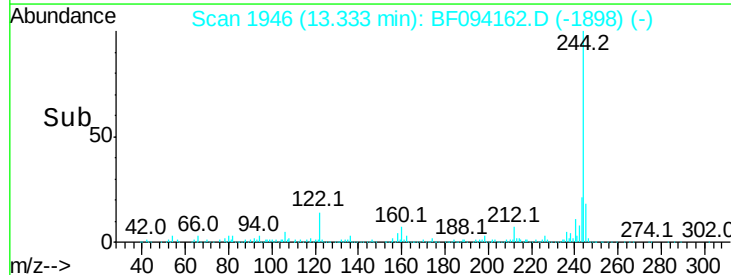
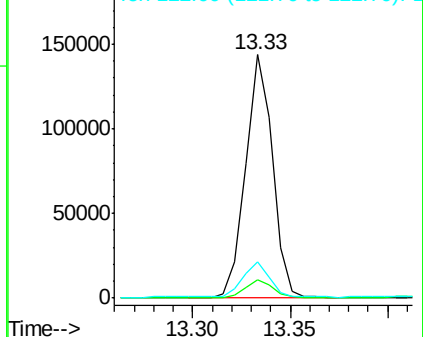
122 14.7 10.3 15.5

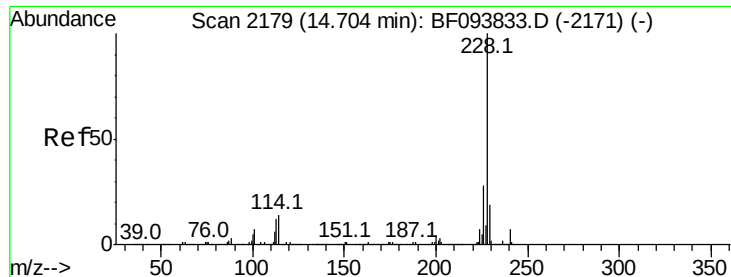


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 9.11 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Instrument :

BNA_F

ClientSampleId :

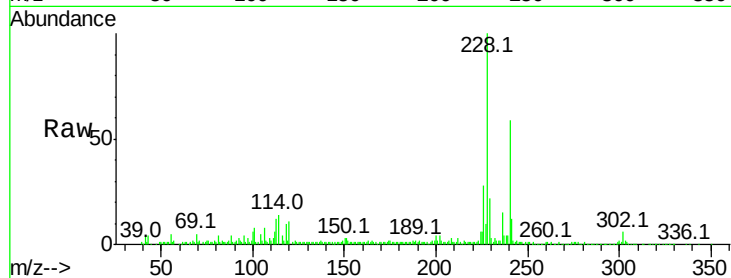
Tot Ion:228 Resp: 164735

Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

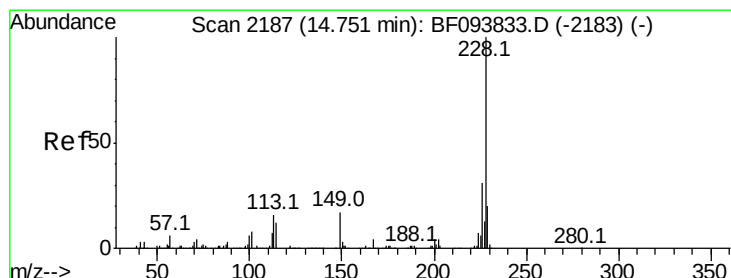
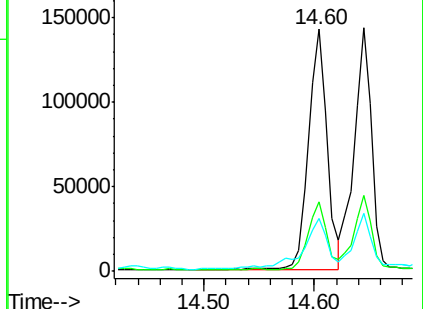
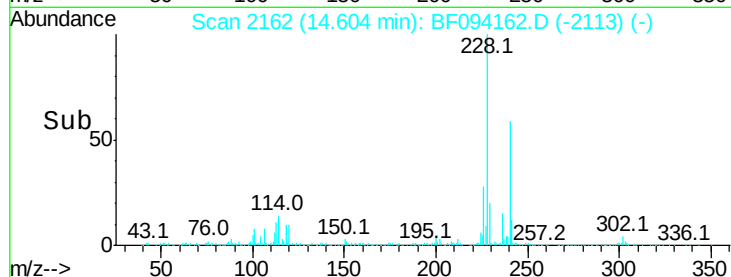
229 21.9 16.3 24.5



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: 9.82 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.06 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

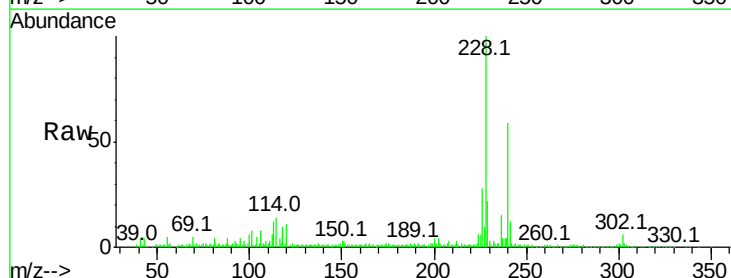
Tgt Ion:228 Resp: 164735

Ion Ratio Lower Upper

228 100

226 28.5 24.9 37.3

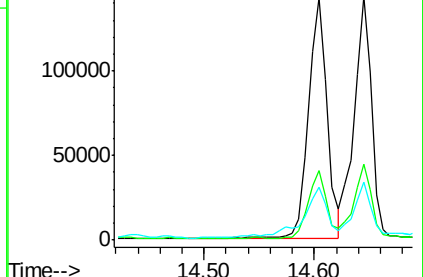
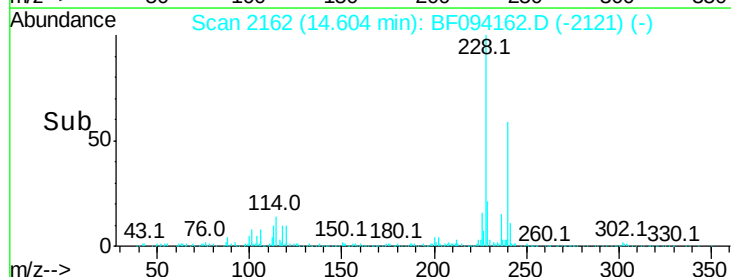
229 21.9 15.8 23.6

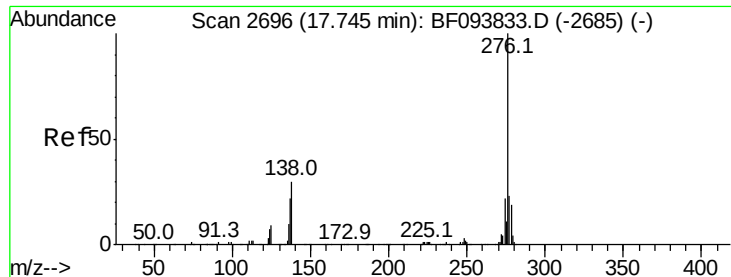


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.86 ng

RT: 17.59 min Scan# 2670

Delta R.T. -0.02 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Instrument :

BNA_F

ClientSampleId :

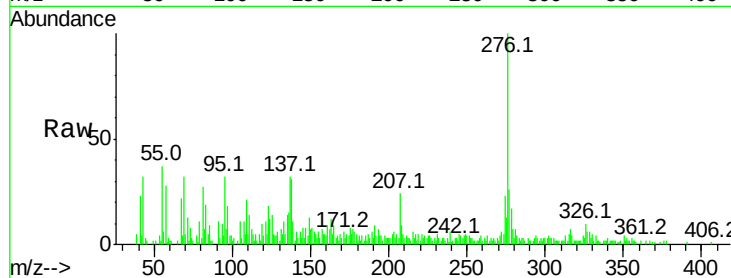
Tot Ion:276 Resp: 41512

Ion Ratio Lower Upper

276 100

138 32.8 27.8 41.6

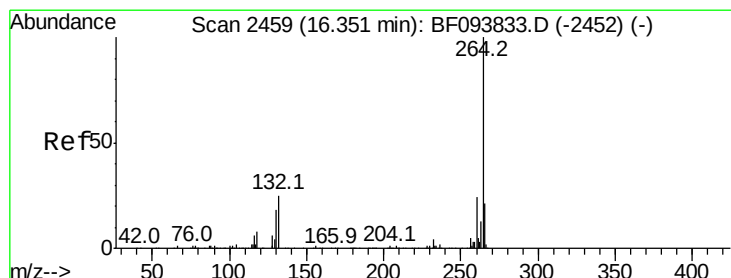
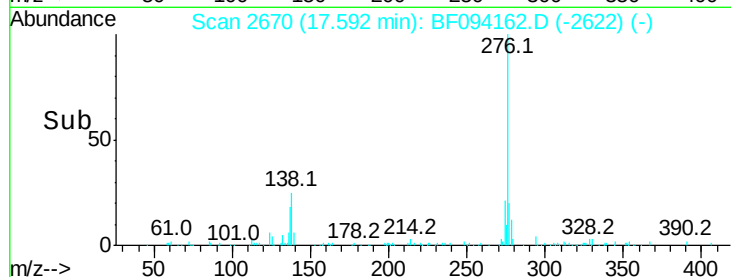
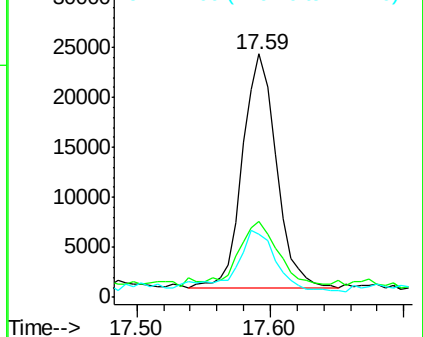
277 31.3 20.2 30.4#



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: 16.25 min Scan# 2442

Delta R.T. 0.00 min

Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

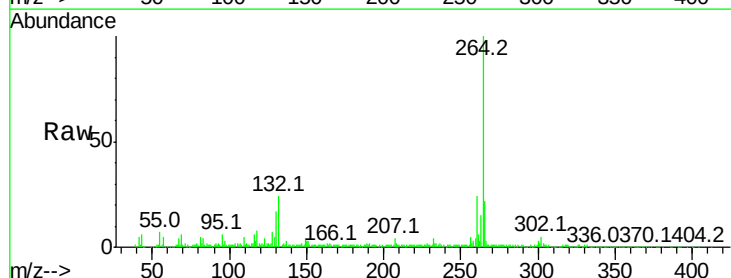
Tgt Ion:264 Resp: 212066

Ion Ratio Lower Upper

264 100

260 24.3 19.5 29.3

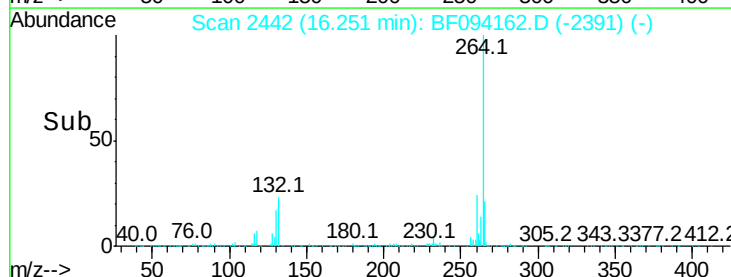
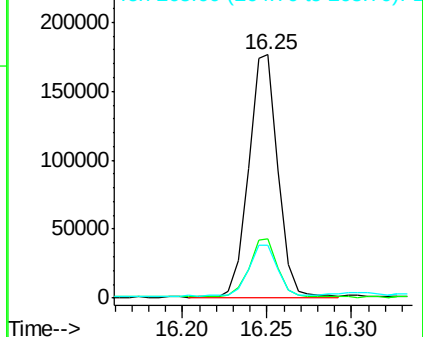
265 21.7 17.2 25.8

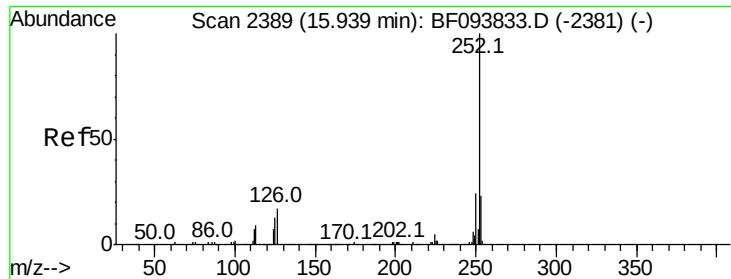


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 11.47 ng

RT: 15.84 min Scan# 2372

Delta R.T. -0.01 min

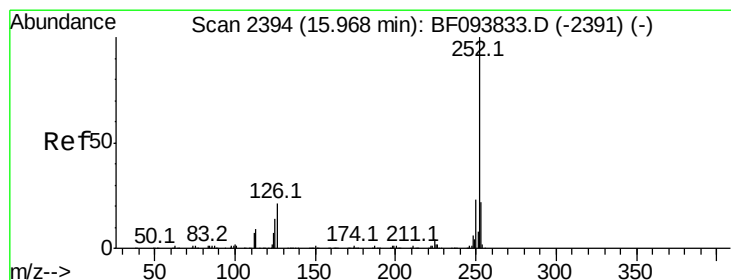
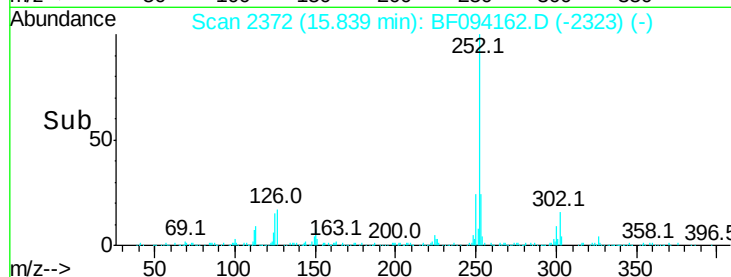
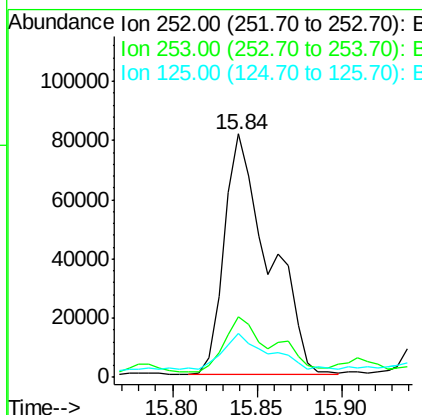
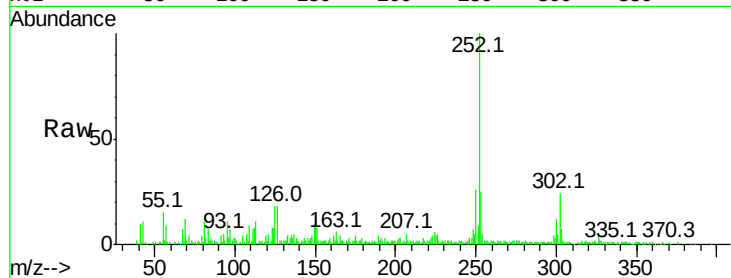
Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 149048

Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.1	27.1
125	17.8	9.8	14.8#



#88

Benzo(k)fluoranthene

Concen: 11.72 ng

RT: 15.84 min Scan# 2372

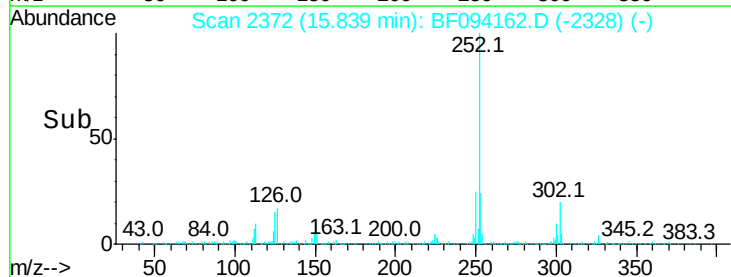
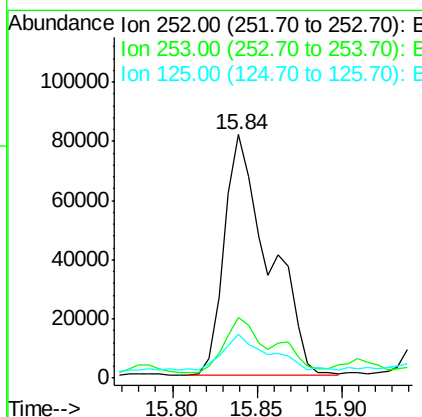
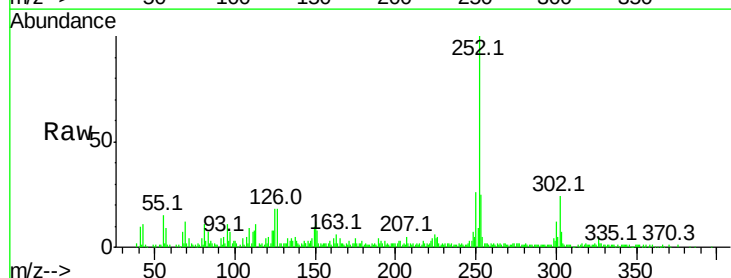
Delta R.T. -0.04 min

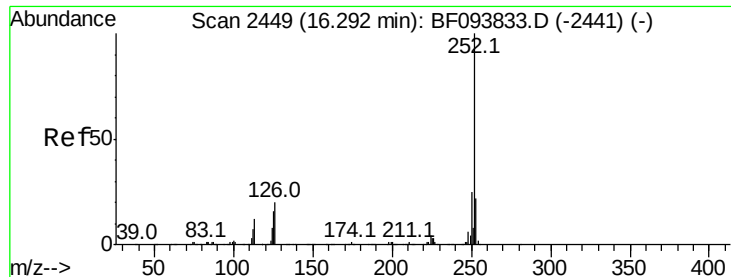
Lab File: BF094162.D

Acq: 4 Apr 2017 11:44

Tgt Ion:252 Resp: 149048

Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.4	27.6
125	17.8	13.1	19.7

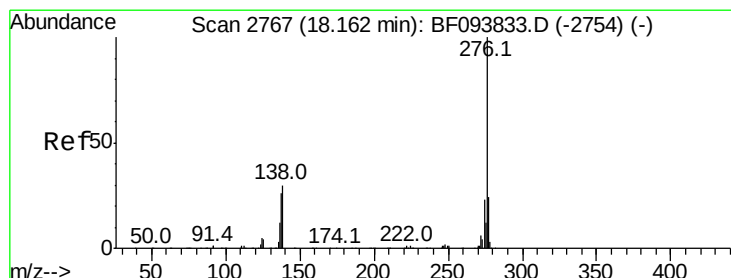
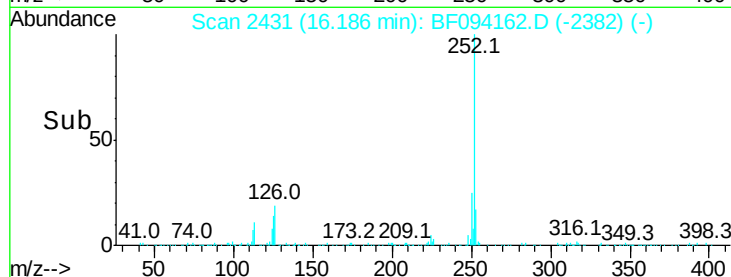
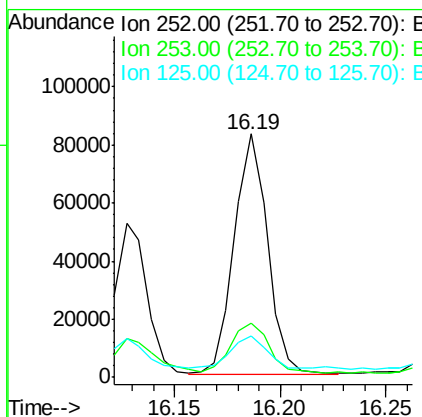
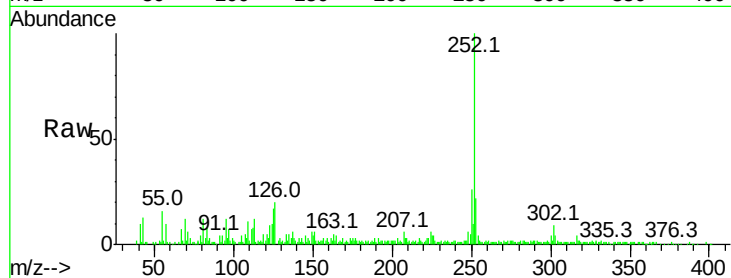




#89
Benzo(a)pyrene
Concen: 7.52 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.01 min
Lab File: BF094162.D
Acq: 4 Apr 2017 11:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 90075
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 17.1 11.0 16.4#



#91
Benzo(g,h,i)perylene
Concen: 4.23 ng
RT: 17.99 min Scan# 2737
Delta R.T. -0.02 min
Lab File: BF094162.D
Acq: 4 Apr 2017 11:44

Tgt Ion:276 Resp: 43193
Ion Ratio Lower Upper
276 100
277 25.6 18.6 28.0
138 33.8 25.4 38.0

