

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032117\
 Data File : BF093793.D
 Acq On : 21 Mar 2017 12:57
 Operator : SJ/MA
 Sample : I2280-03DL 250X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-2DL

Quant Time: Mar 21 14:43:52 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 21 14:38:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	195468	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	791734	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	376772	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	651055	20.00	ng	0.00
75) Chrysene-d12	13.97	240	487046	20.00	ng	0.00
86) Perylene-d12	15.37	264	333476	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.41	112	5862	0.52	ng	-0.01
7) Phenol-d6	6.45	99	7342	0.53	ng	-0.01
23) Nitrobenzene-d5	7.37	82	4054	0.29	ng	-0.02
41) 2,4,6-Tribromophenol	10.64	330	959	0.33	ng	-0.01
44) 2-Fluorobiphenyl	9.19	172	8544	0.38	ng	0.00
78) Terphenyl-d14	12.92	244	8959	0.38	ng	-0.01

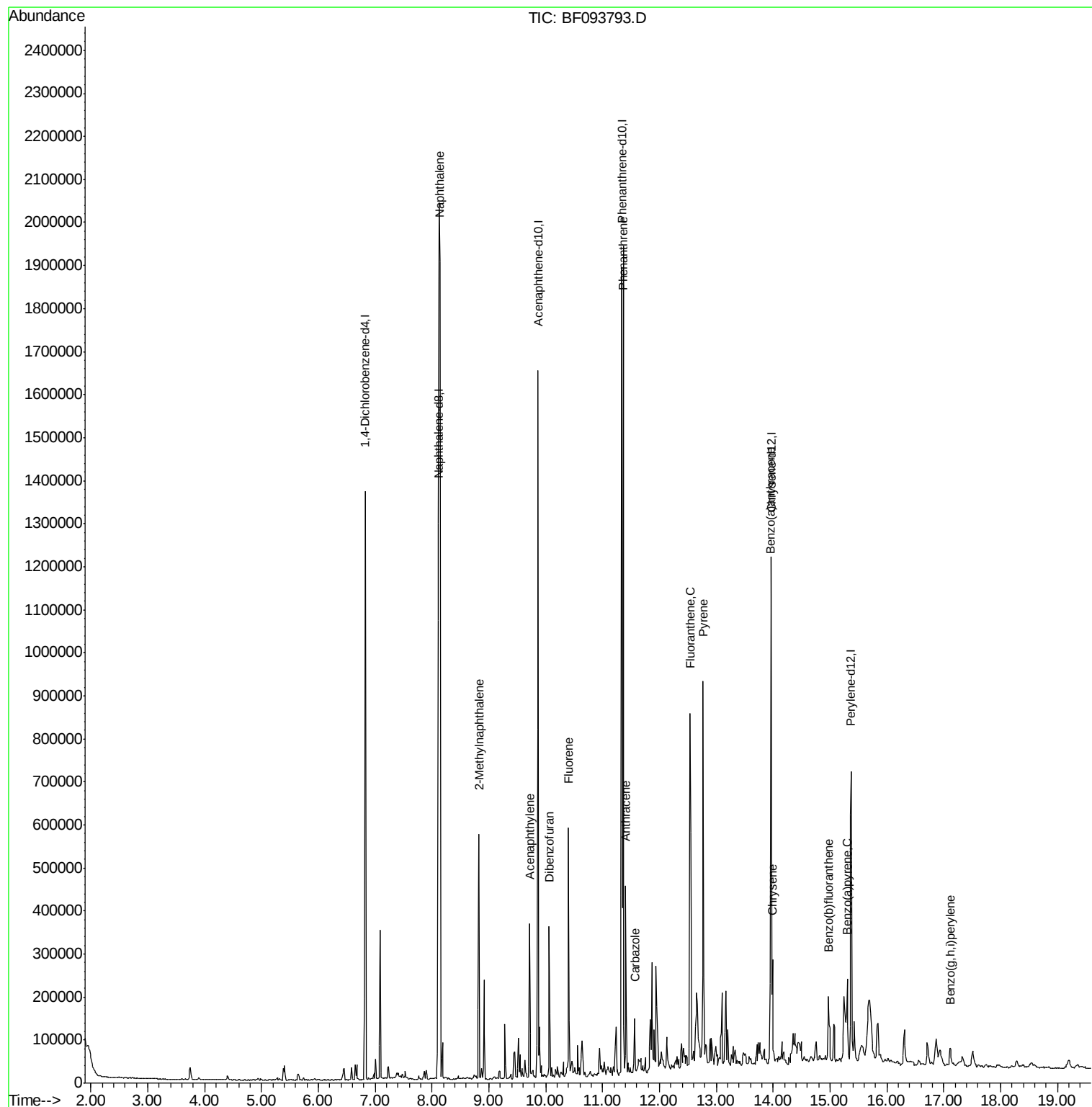
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.14	128	1416321	38.54	ng	99
37) 2-Methylnaphthalene	8.82	142	159361	6.64	ng	97
48) Acenaphthylene	9.72	152	141755	3.71	ng	98
54) Dibenzofuran	10.06	168	141523	4.61	ng	96
57) Fluorene	10.40	166	161221	6.85	ng	99
70) Phenanthrene	11.36	178	639504	18.44	ng	99
71) Anthracene	11.41	178	178432	5.00	ng	98
72) Carbazole	11.57	167	72409	2.05	ng	# 95
74) Fluoranthene	12.54	202	404301	11.34	ng	94
77) Pyrene	12.77	202	332851	8.21	ng	99
80) Benzo(a)anthracene	13.96	228	120695m	3.96	ng	
82) Chrysene	13.99	228	92623m	3.04	ng	
87) Benzo(b)fluoranthene	14.97	252	82451m	3.67	ng	
89) Benzo(a)pyrene	15.31	252	65734	3.61	ng	96
91) Benzo(g,h,i)perylene	17.12	276	31923	2.12	ng	95

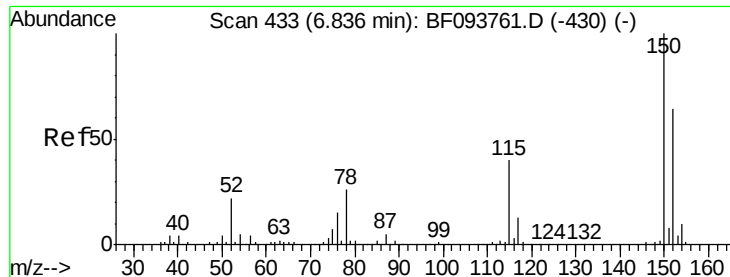
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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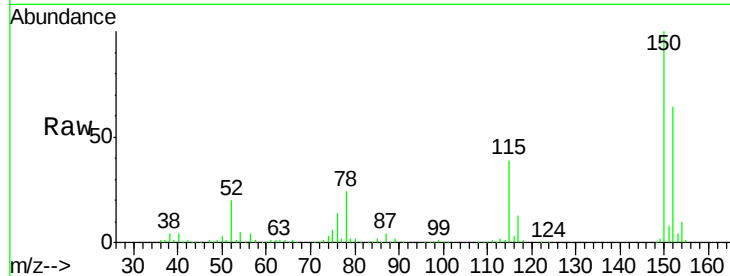


#1

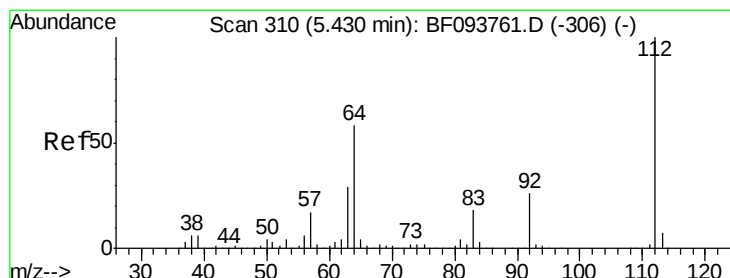
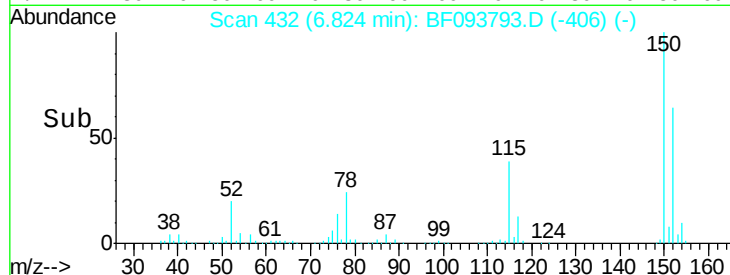
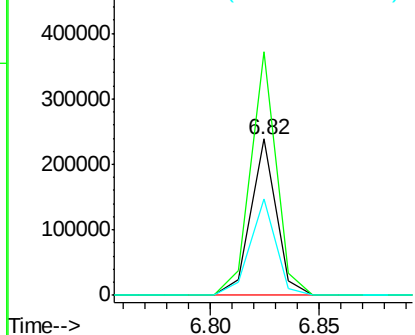
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 432
Delta R.T. -0.00 min
Lab File: BF093793.D
Acq: 21 Mar 2017 12:57

Instrument :
BNA_F
ClientSampleId :
CTMIX-2DL

Tgt Ion:152 Resp: 195468
Ion Ratio Lower Upper
152 100
150 155.6 126.2 189.2
115 61.2 52.2 78.2



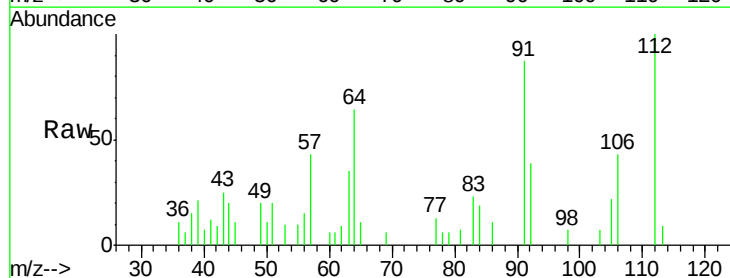
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



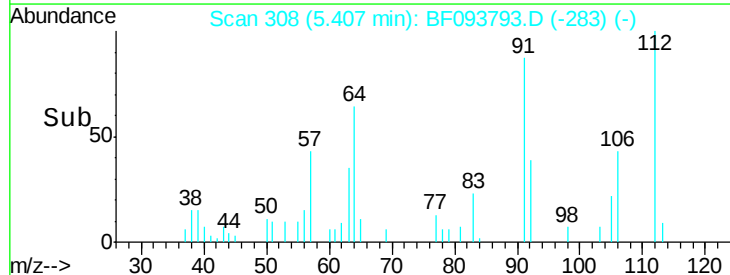
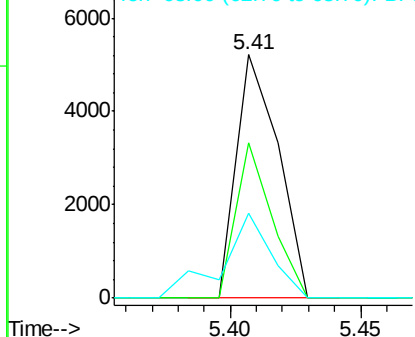
#5

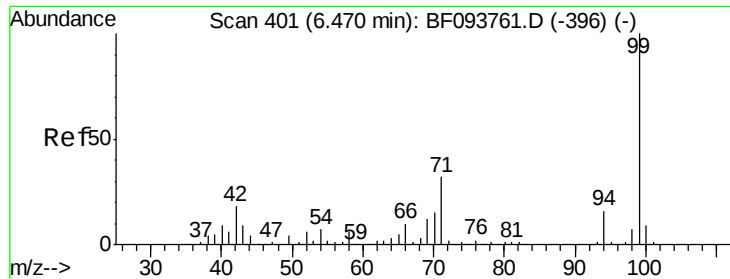
2-Fluorophenol
Concen: 0.52 ng
RT: 5.41 min Scan# 308
Delta R.T. -0.01 min
Lab File: BF093793.D
Acq: 21 Mar 2017 12:57

Tgt Ion:112 Resp: 5862
Ion Ratio Lower Upper
112 100
64 63.5 46.0 69.0
63 34.7 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: 0.53 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.01 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Instrument :

BNA_F

ClientSampleId :

CTMIX-2DL

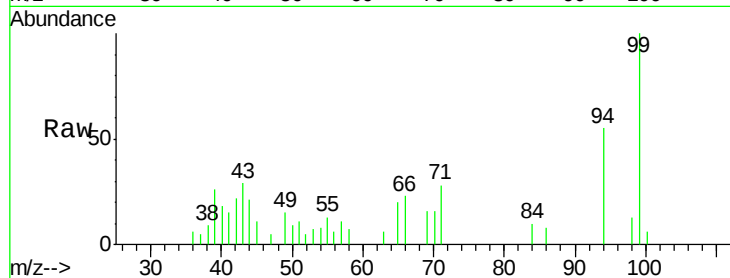
Tgt Ion: 99 Resp: 7342

Ion Ratio Lower Upper

99 100

42 21.6 13.5 20.3#

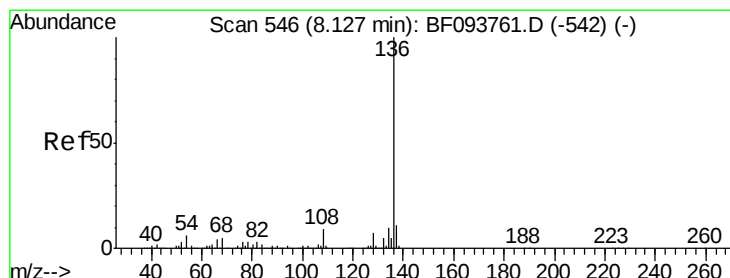
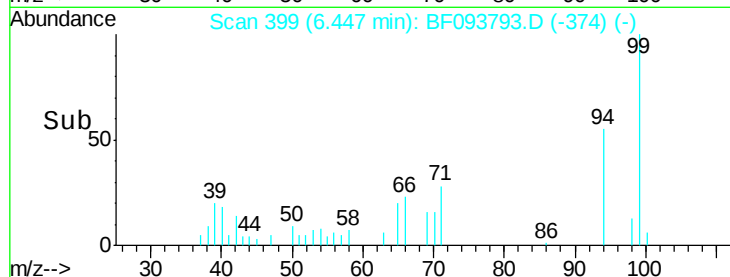
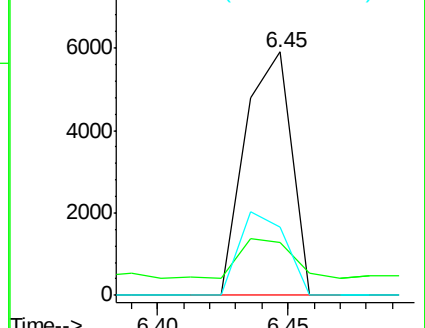
71 28.0 24.5 36.7



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: 8.12 min Scan# 545

Delta R.T. -0.00 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Tgt Ion: 136 Resp: 791734

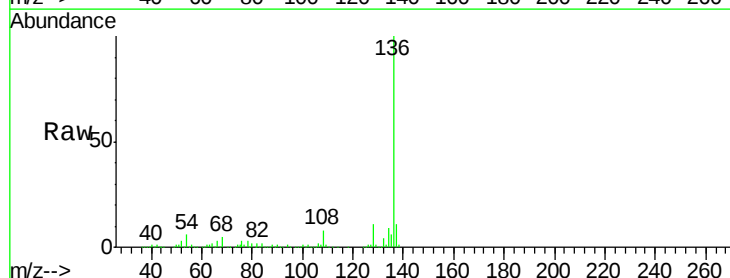
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 5.7 4.9 7.3

68 4.7 4.1 6.1

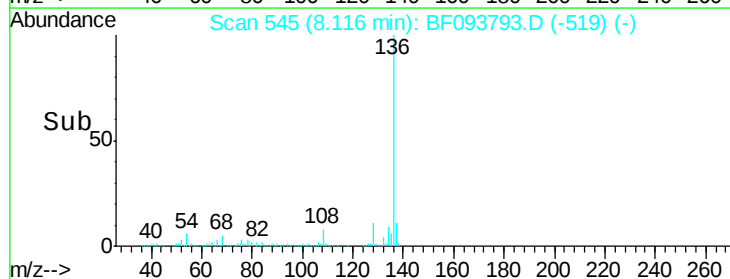
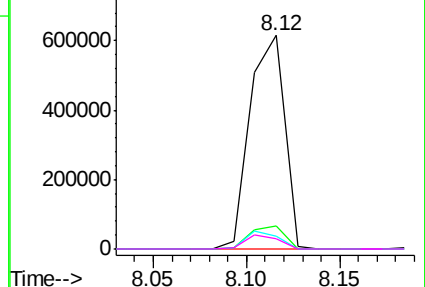


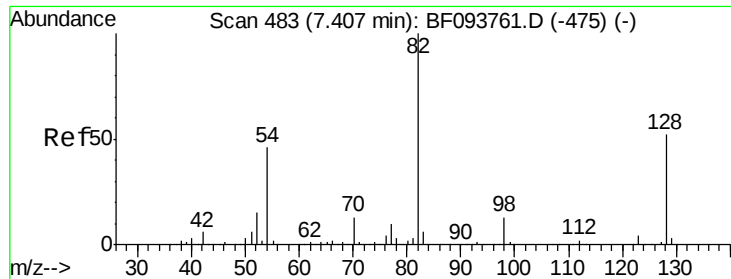
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.29 ng

RT: 7.37 min Scan# 480

Delta R.T. -0.02 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Instrument :

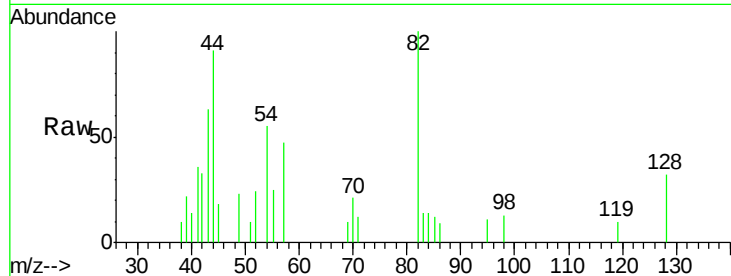
BNA_F

ClientSampleId :

CTMIX-2DL

Tgt Ion: 82 Resp: 4054

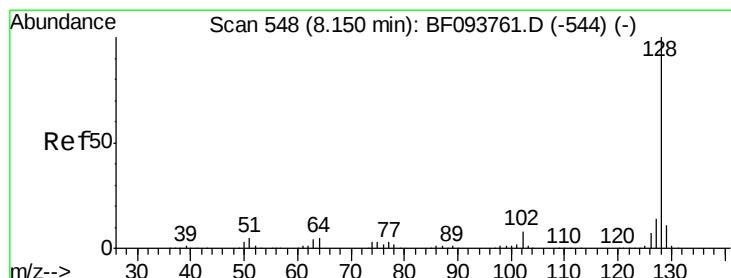
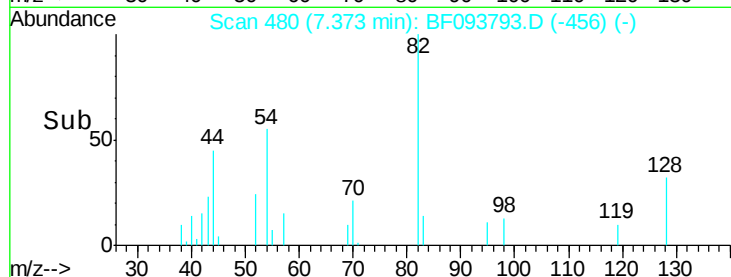
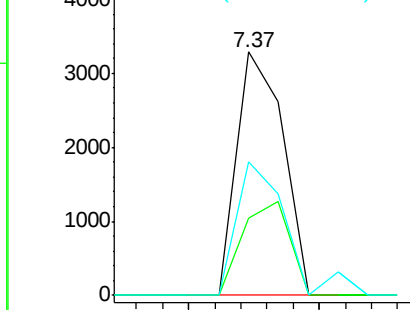
Ion	Ratio	Lower	Upper
82	100		
128	31.5	34.0	51.0#
54	54.6	42.2	63.2



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: 38.54 ng

RT: 8.14 min Scan# 547

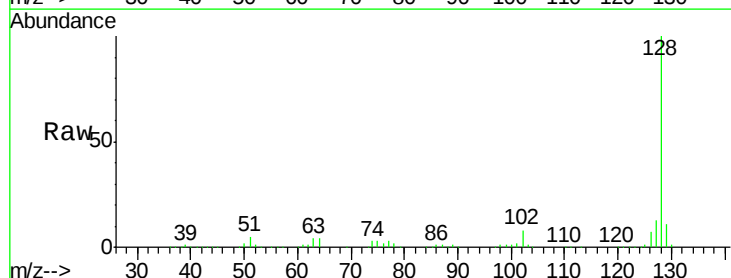
Delta R.T. -0.00 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Tgt Ion: 128 Resp: 1416321

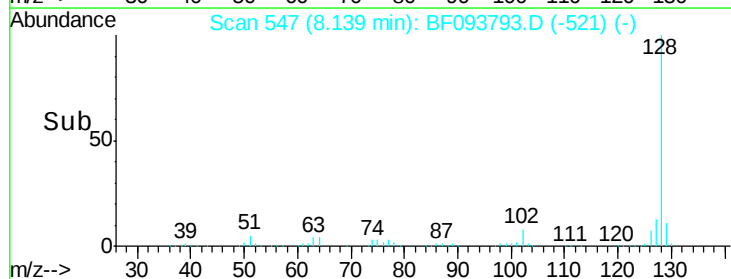
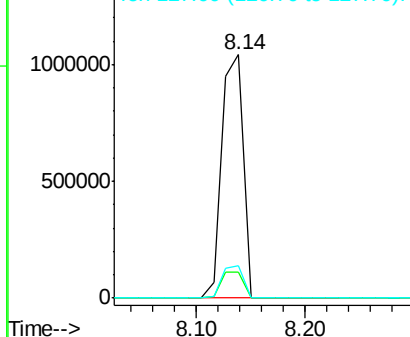
Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.0	13.6
127	13.3	10.8	16.2

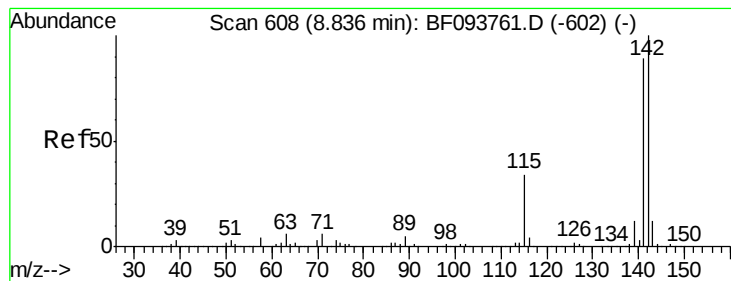


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

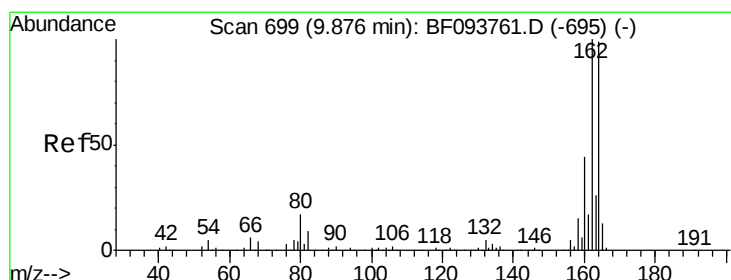
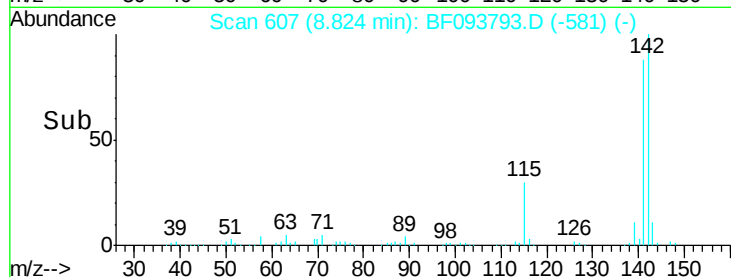
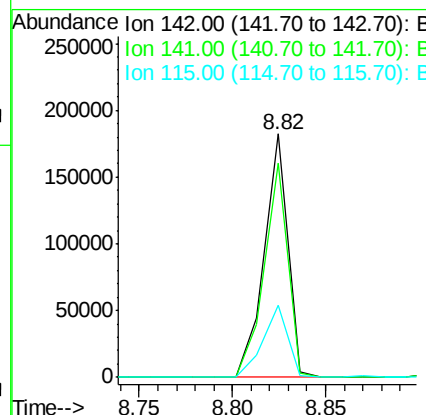
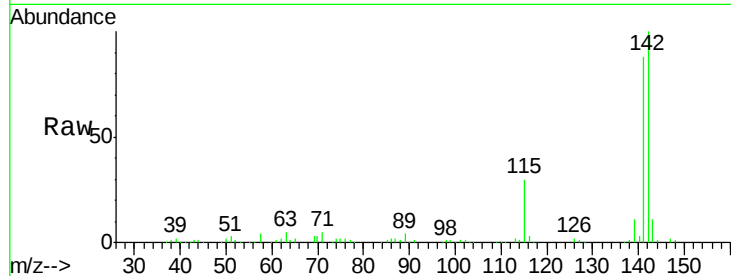




#37
2-Methylnaphthalene
Concen: 6.64 ng
RT: 8.82 min Scan# 607
Delta R.T. -0.00 min
Lab File: BF093793.D
Acq: 21 Mar 2017 12:57

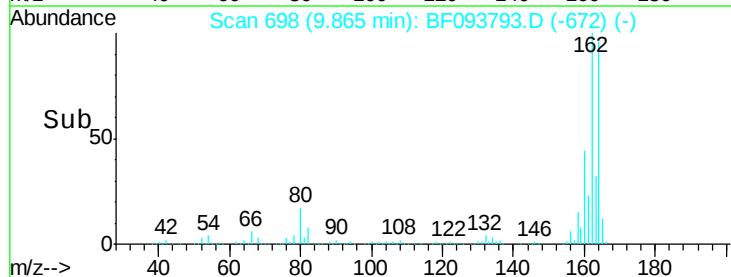
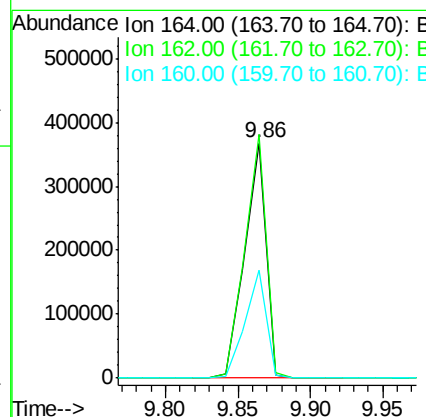
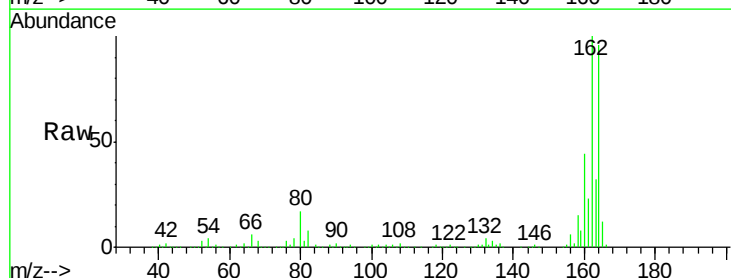
Instrument :
BNA_F
ClientSampleId :
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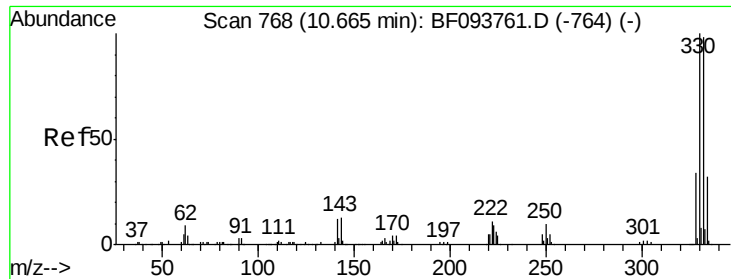
Tgt Ion:142 Resp: 159361
Ion Ratio Lower Upper
142 100
141 88.0 71.3 106.9
115 29.7 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.86 min Scan# 698
Delta R.T. -0.00 min
Lab File: BF093793.D
Acq: 21 Mar 2017 12:57

Tgt Ion:164 Resp: 376772
Ion Ratio Lower Upper
164 100
162 103.7 82.6 123.8
160 46.0 36.2 54.2

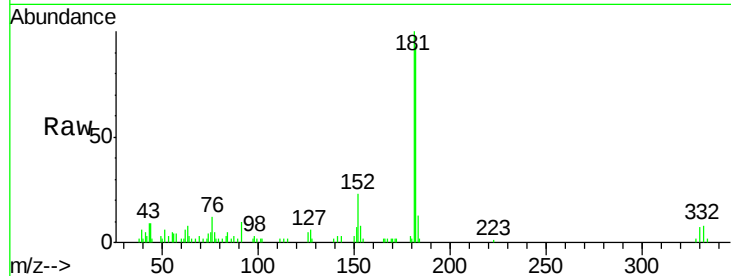




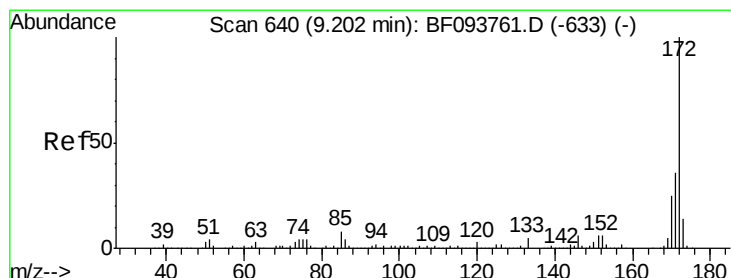
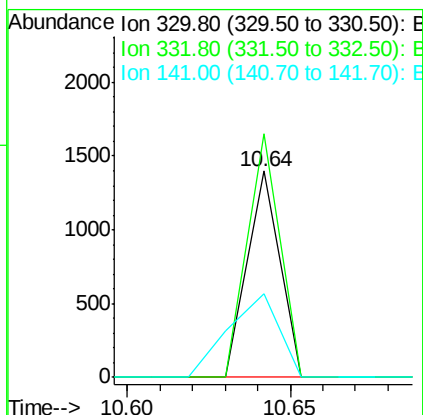
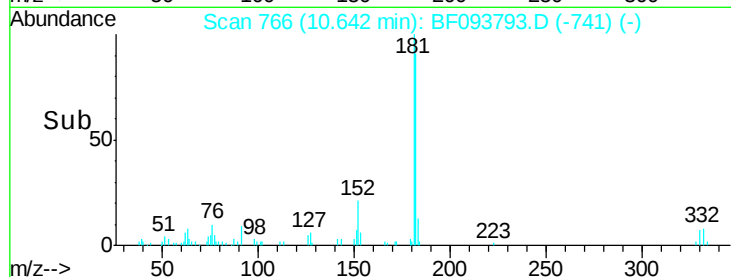
#41
 2,4,6-Tribromophenol
 Concen: 0.33 ng
 RT: 10.64 min Scan# 766
 Delta R.T. -0.01 min
 Lab File: BF093793.D
 Acq: 21 Mar 2017 12:57

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-2DL

Tgt Ion: 330 Resp: 959
 Ion Ratio Lower Upper
 330 100
 332 118.0 76.6 115.0#
 141 63.2 31.4 47.2#

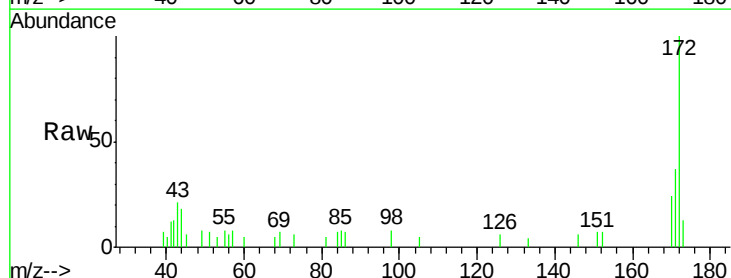


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

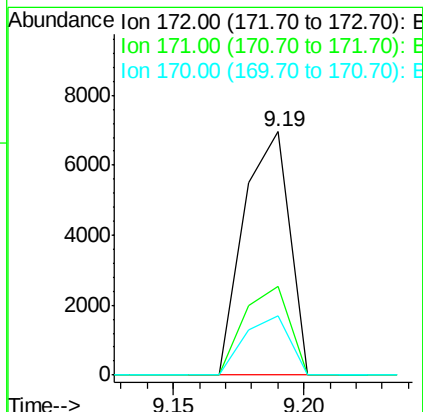
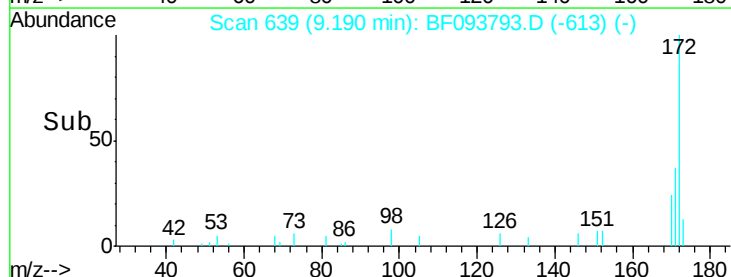


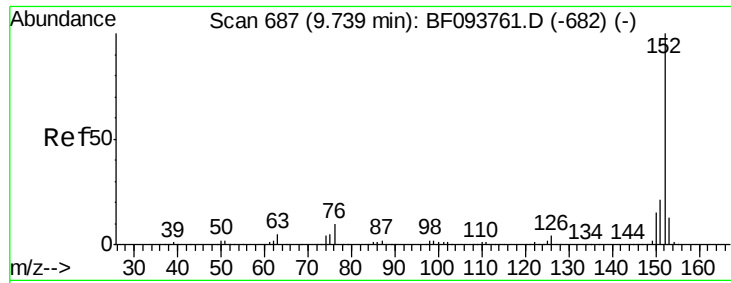
#44
 2-Fluorobiphenyl
 Concen: 0.38 ng
 RT: 9.19 min Scan# 639
 Delta R.T. -0.00 min
 Lab File: BF093793.D
 Acq: 21 Mar 2017 12:57

Tgt Ion: 172 Resp: 8544
 Ion Ratio Lower Upper
 172 100
 171 36.7 29.6 44.4
 170 24.4 19.8 29.8



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





#48

Acenaphthylene

Concen: 3.71 ng

RT: 9.72 min Scan# 685

Delta R.T. -0.01 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Instrument :

BNA_F

ClientSampleId :

CTMIX-2DL

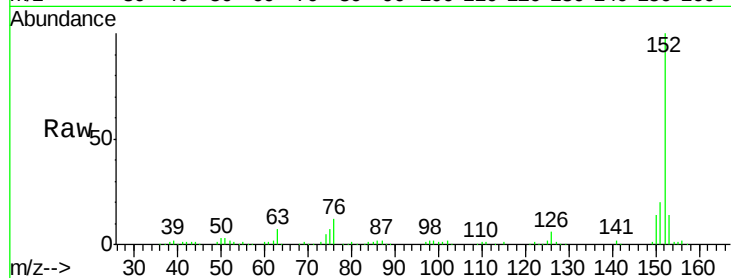
Tgt Ion:152 Resp: 141755

Ion Ratio Lower Upper

152 100

151 19.7 16.8 25.2

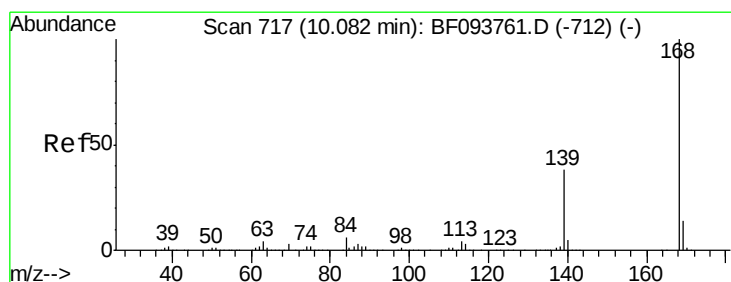
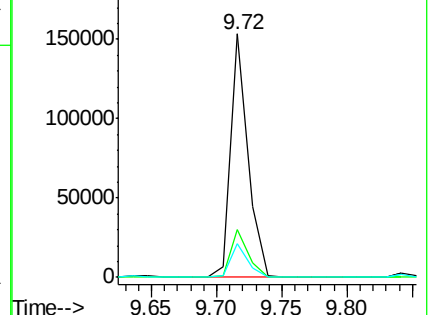
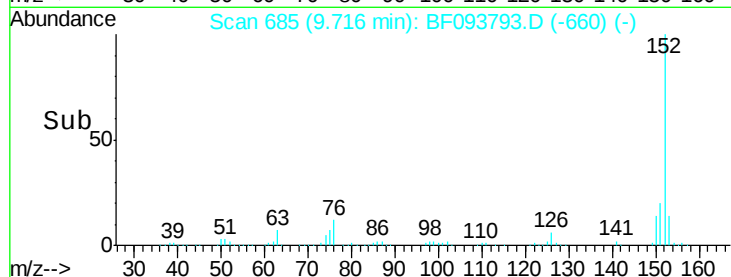
153 13.8 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#54

Dibenzofuran

Concen: 4.61 ng

RT: 10.06 min Scan# 715

Delta R.T. -0.01 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

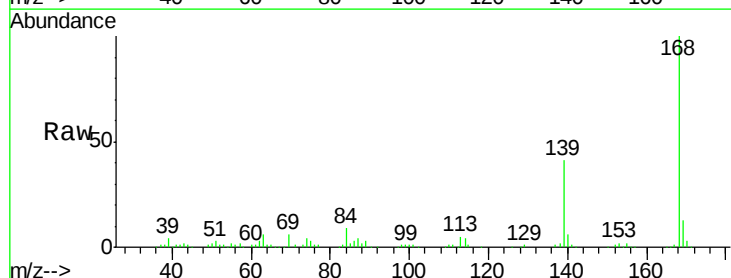
Tgt Ion:168 Resp: 141523

Ion Ratio Lower Upper

168 100

139 41.4 30.6 45.8

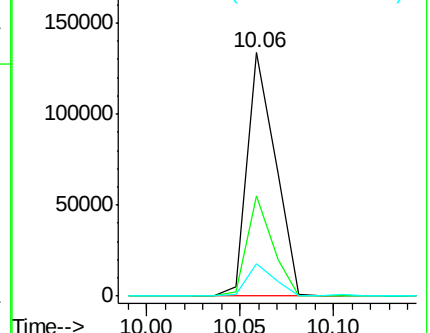
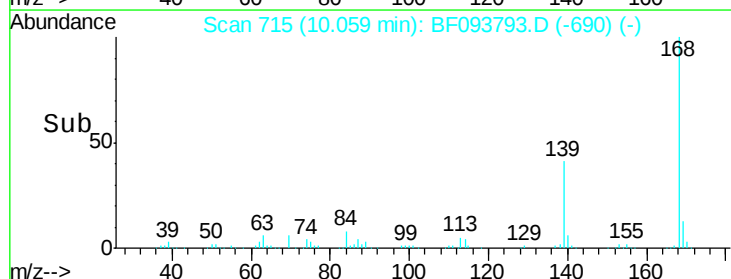
169 13.4 10.8 16.2

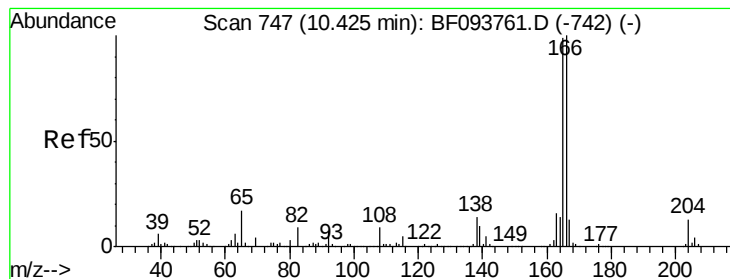


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 6.85 ng

RT: 10.40 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Instrument :

BNA_F

ClientSampleId :

CTMIX-2DL

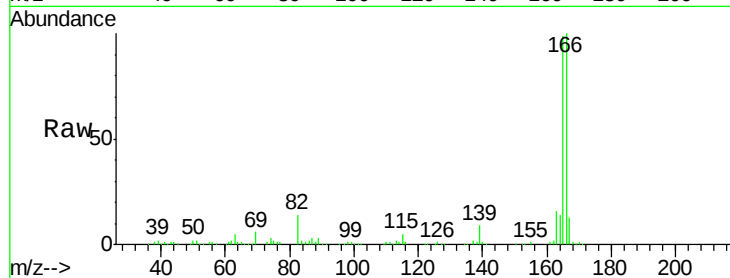
Tgt Ion:166 Resp: 161221

Ion Ratio Lower Upper

166 100

165 99.1 78.8 118.2

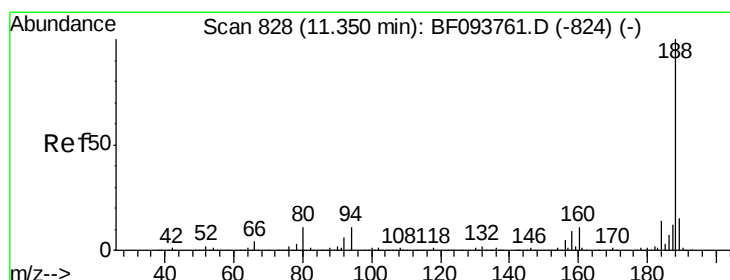
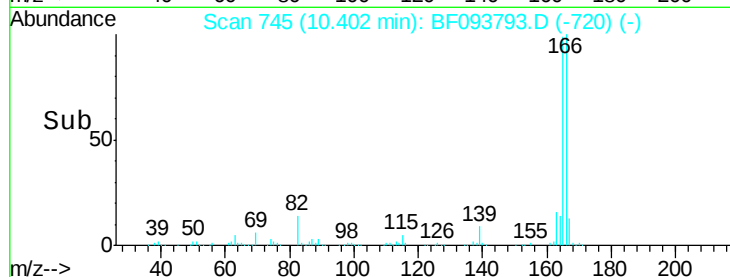
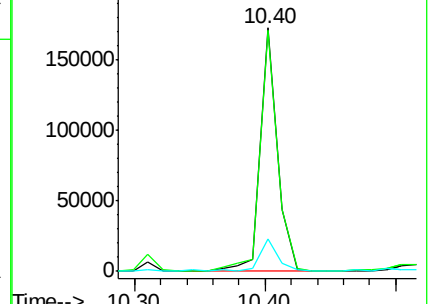
167 13.3 10.6 16.0



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: 11.34 min Scan# 827

Delta R.T. -0.00 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

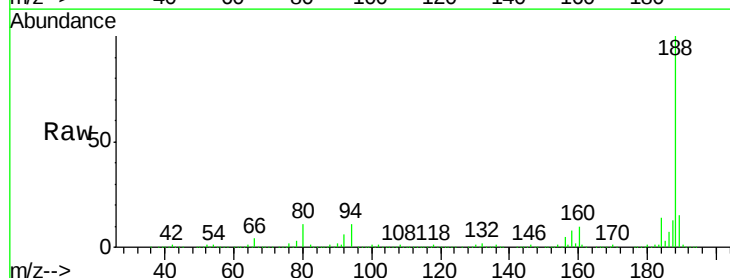
Tgt Ion:188 Resp: 651055

Ion Ratio Lower Upper

188 100

94 10.6 9.4 14.2

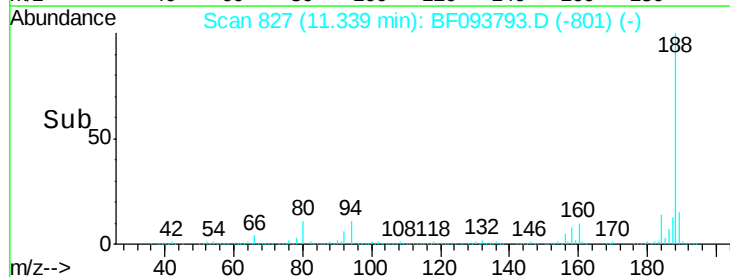
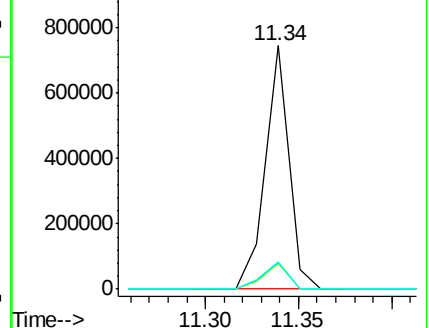
80 11.1 10.2 15.2

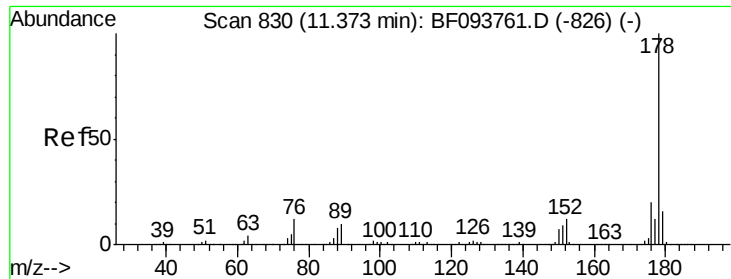


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

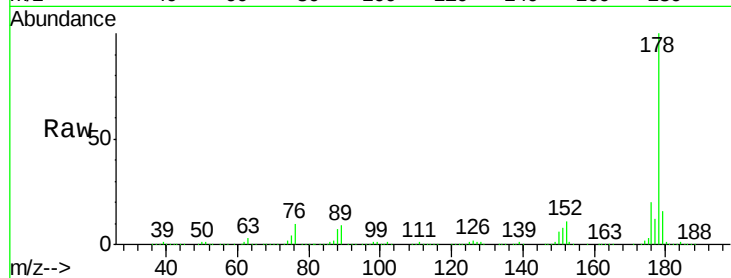




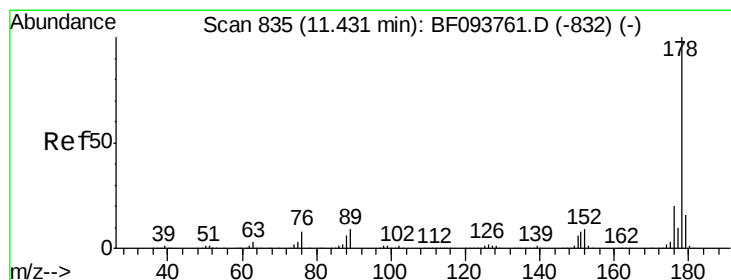
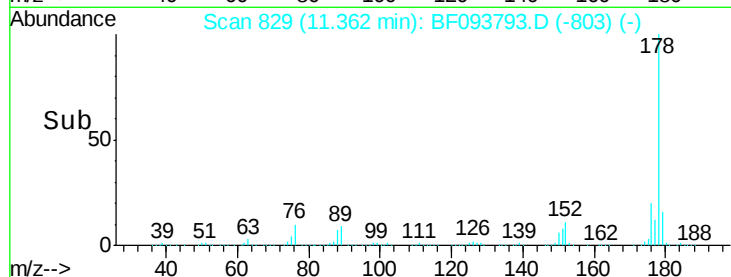
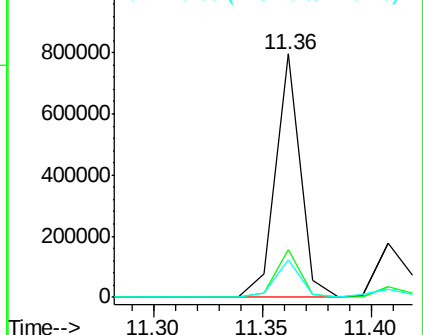
#70
Phenanthrene
Concen: 18.44 ng
RT: 11.36 min Scan# 829
Delta R.T. -0.00 min
Lab File: BF093793.D
Acq: 21 Mar 2017 12:57

Instrument :
BNA_F
ClientSampleId :
CTMIX-2DL

Tgt Ion:178 Resp: 639504
Ion Ratio Lower Upper
178 100
176 19.8 16.2 24.4
179 15.6 12.6 19.0

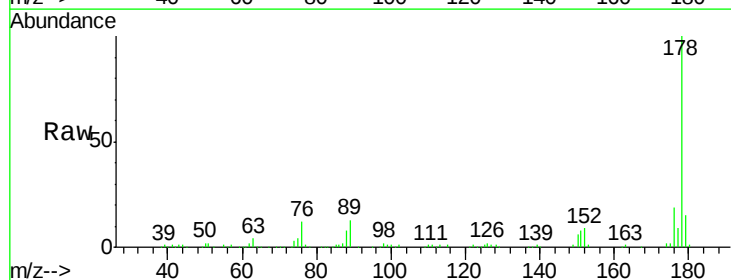


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

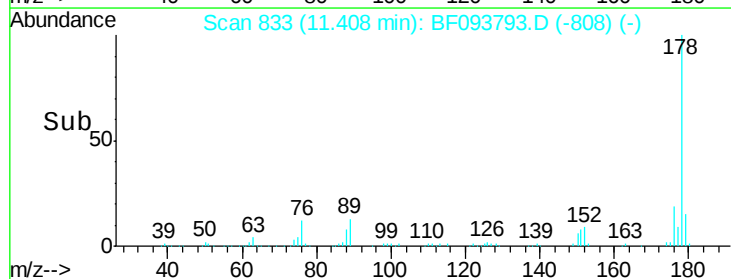
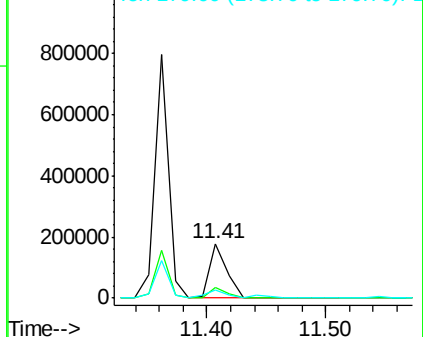


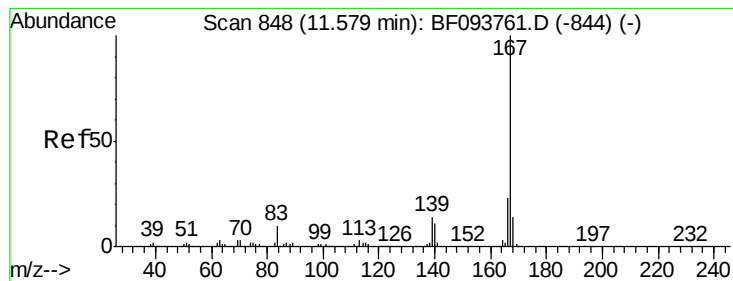
#71
Anthracene
Concen: 5.00 ng
RT: 11.41 min Scan# 833
Delta R.T. -0.01 min
Lab File: BF093793.D
Acq: 21 Mar 2017 12:57

Tgt Ion:178 Resp: 178432
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.8
179 15.0 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





#72

Carbazole

Concen: 2.05 ng

RT: 11.57 min Scan# 847

Delta R.T. -0.00 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Instrument :

BNA_F

ClientSampleId :

CTMIX-2DL

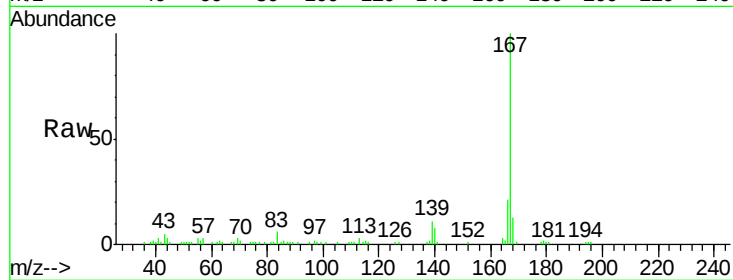
Tgt Ion:167 Resp: 72409

Ion Ratio Lower Upper

167 100

166 21.5 18.1 27.1

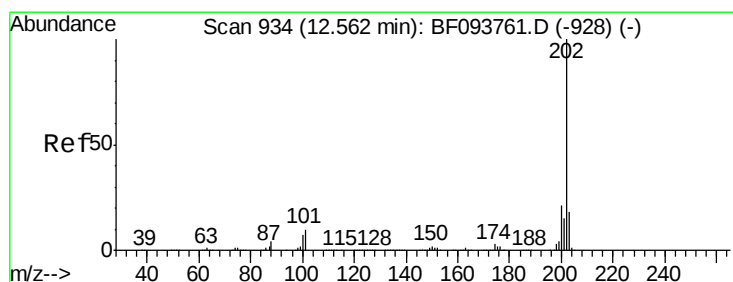
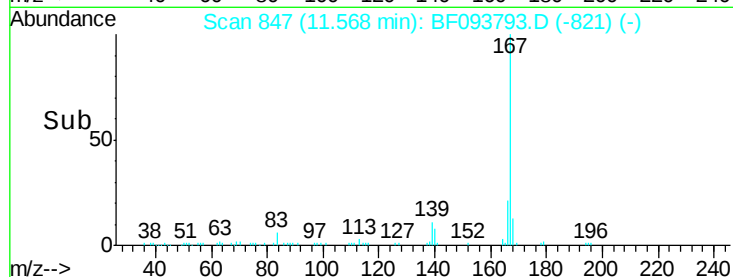
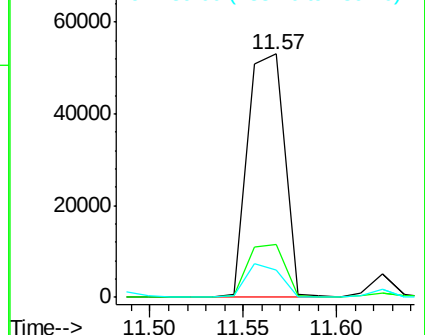
139 11.1 11.7 17.5#



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: 11.34 ng

RT: 12.54 min Scan# 932

Delta R.T. -0.01 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

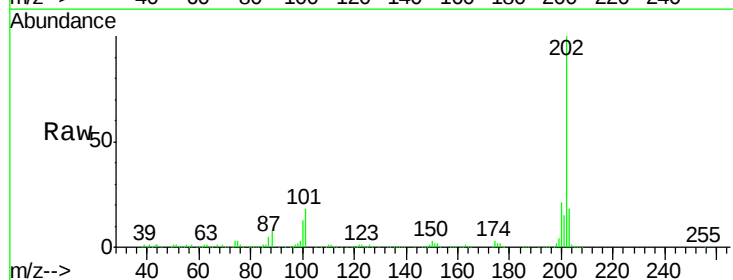
Tgt Ion:202 Resp: 404301

Ion Ratio Lower Upper

202 100

101 18.4 0.0 33.2

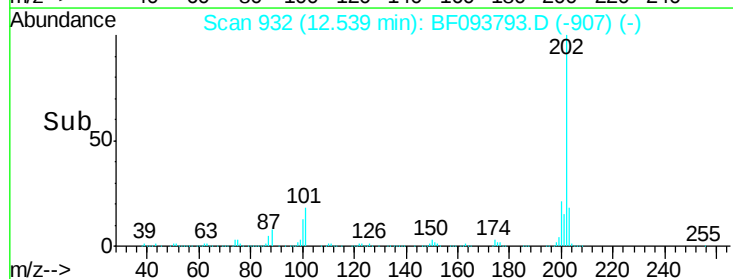
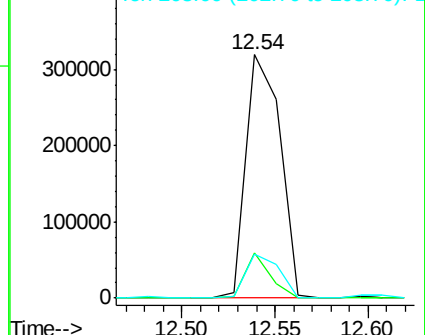
203 18.0 0.0 38.1

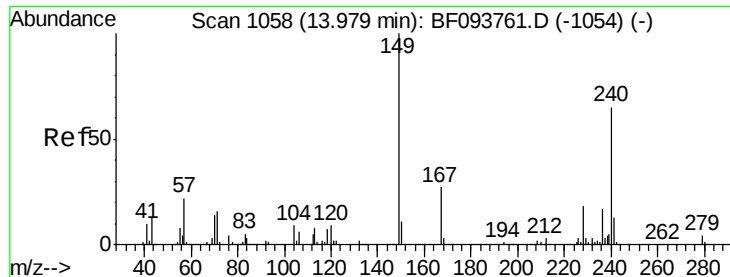


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.97 min Scan# 1057

Delta R.T. -0.00 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Instrument :

BNA_F

ClientSampleId :

CTMIX-2DL

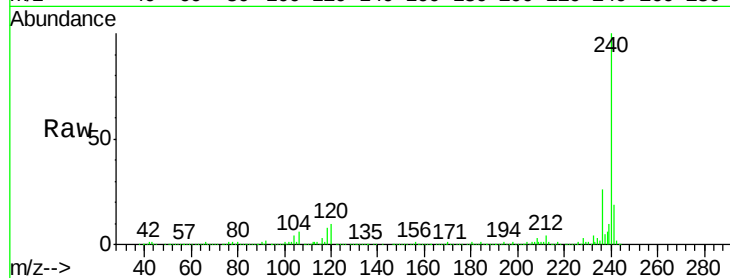
Tgt Ion:240 Resp: 487046

Ion Ratio Lower Upper

240 100

120 9.9 5.8 8.8#

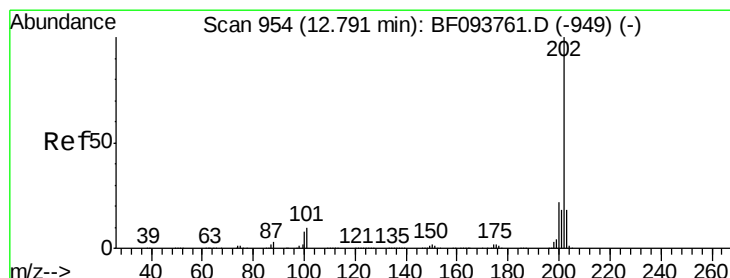
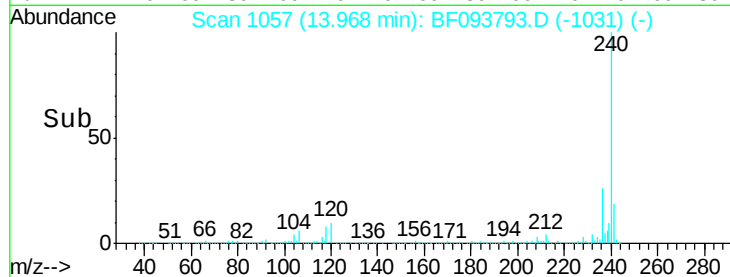
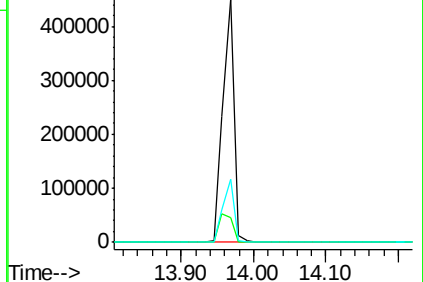
236 25.8 20.5 30.7



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

Pyrene

Concen: 8.21 ng

RT: 12.77 min Scan# 952

Delta R.T. -0.01 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

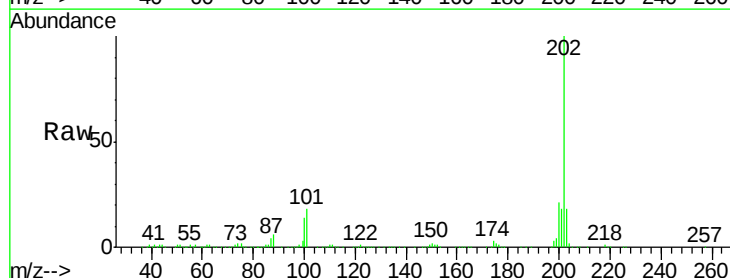
Tgt Ion:202 Resp: 332851

Ion Ratio Lower Upper

202 100

200 21.1 17.6 26.4

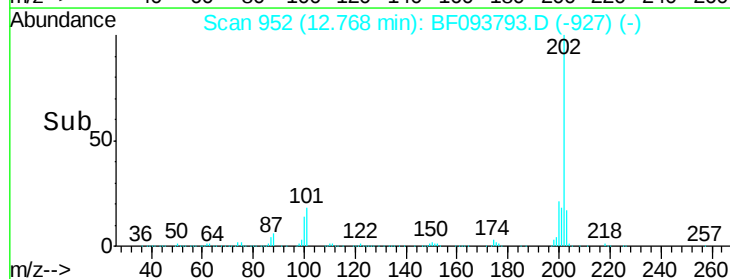
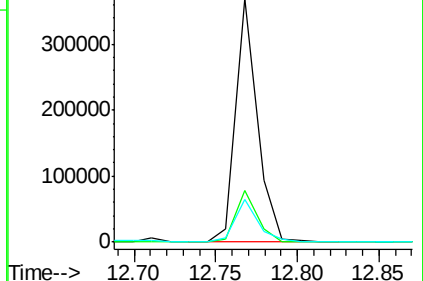
203 17.6 14.4 21.6

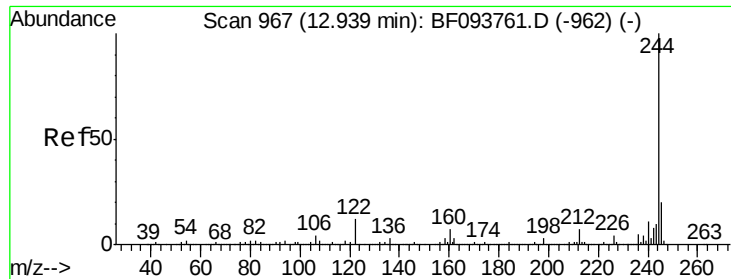


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 0.38 ng

RT: 12.92 min Scan# 965

Delta R.T. -0.01 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Instrument :

BNA_F

ClientSampleId :

CTMIX-2DL

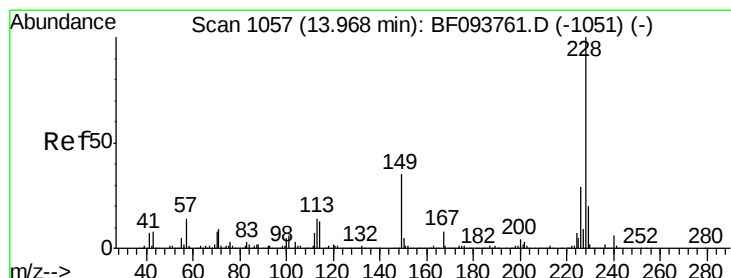
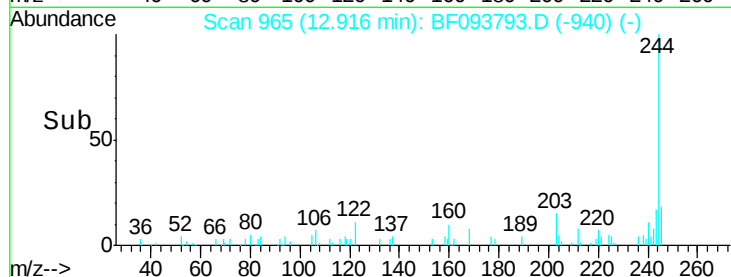
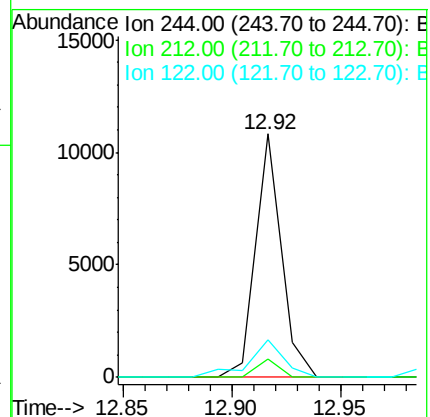
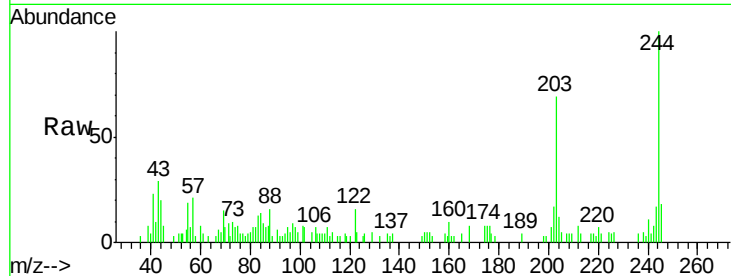
Tgt Ion:244 Resp: 8959

Ion Ratio Lower Upper

244 100

212 7.8 6.0 9.0

122 15.6 10.3 15.5#



#80

Benzo(a)anthracene

Concen: 3.96 ng m

RT: 13.96 min Scan# 1056

Delta R.T. -0.00 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

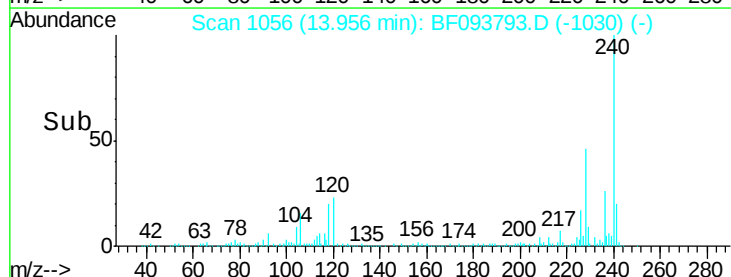
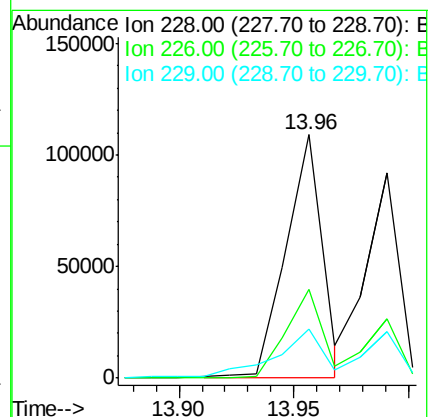
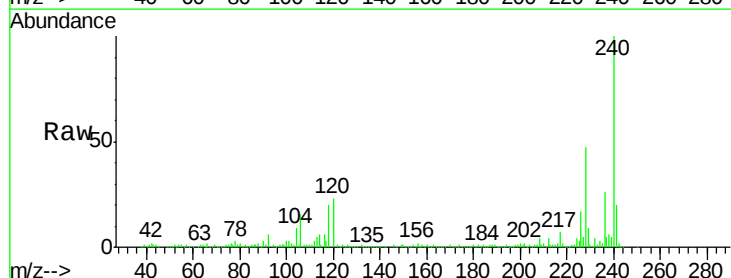
Tgt Ion:228 Resp: 120695

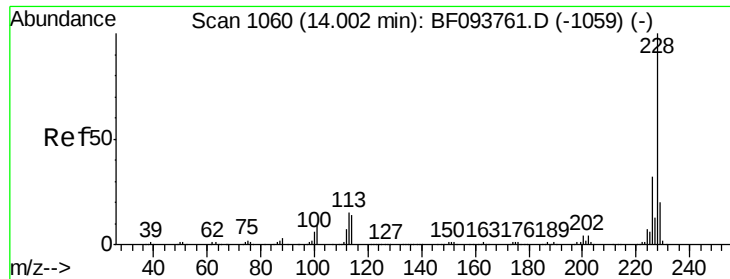
Ion Ratio Lower Upper

228 100

226 36.6 22.6 33.8#

229 19.9 16.3 24.5





#82

Chrysene

Concen: 3.04 ng m

RT: 13.99 min Scan# 1059

Delta R.T. -0.01 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Instrument :

BNA_F

ClientSampleId :

CTMIX-2DL

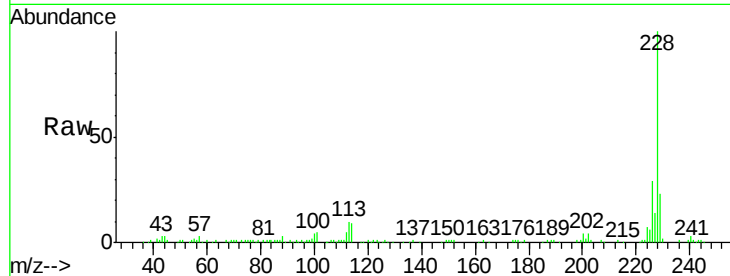
Tgt Ion:228 Resp: 92623

Ion Ratio Lower Upper

228 100

226 29.1 24.9 37.3

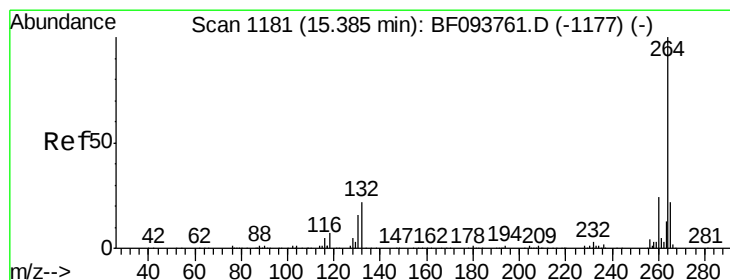
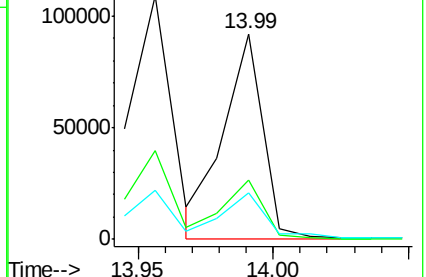
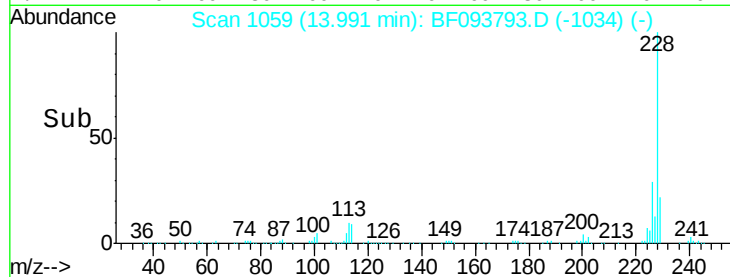
229 23.0 15.8 23.6



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.37 min Scan# 1180

Delta R.T. -0.00 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

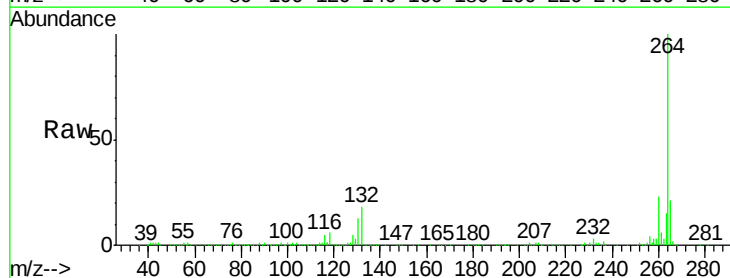
Tgt Ion:264 Resp: 333476

Ion Ratio Lower Upper

264 100

260 23.3 19.5 29.3

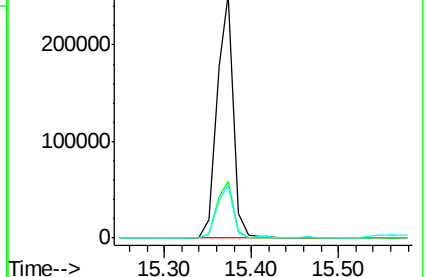
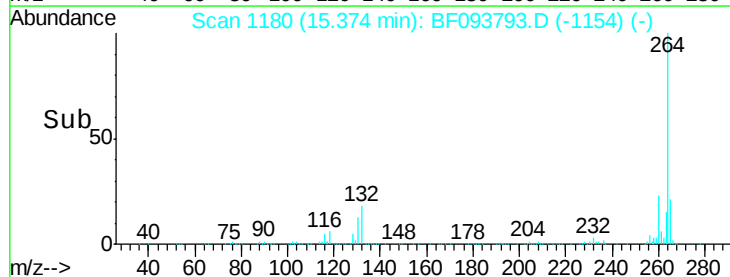
265 21.5 17.2 25.8

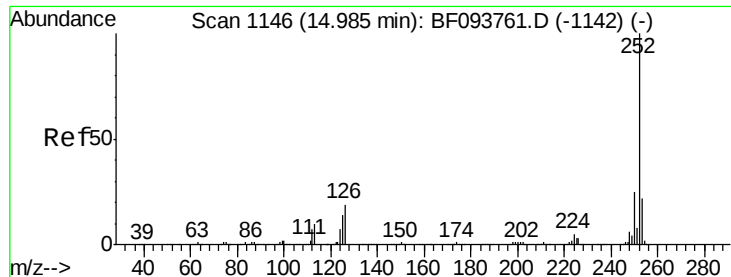


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

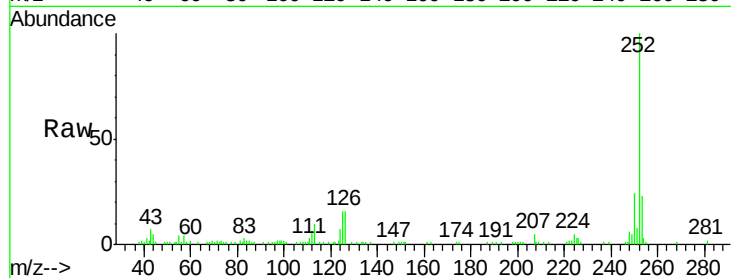




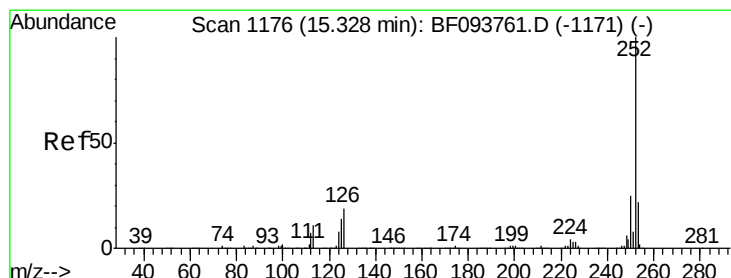
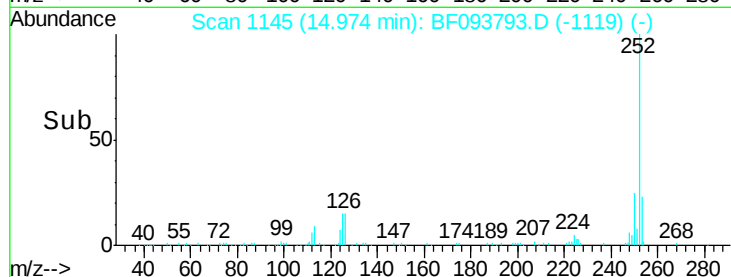
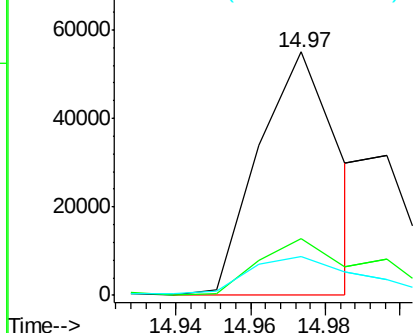
#87
Benzo(b)fluoranthene
Concen: 3.67 ng m
RT: 14.97 min Scan# 1145
Delta R.T. -0.00 min
Lab File: BF093793.D
Acq: 21 Mar 2017 12:57

Instrument :
BNA_F
ClientSampleId :
CTMIX-2DL

Tgt Ion:252 Resp: 82451
Ion Ratio Lower Upper
252 100
253 23.2 18.1 27.1
125 15.9 9.8 14.8#

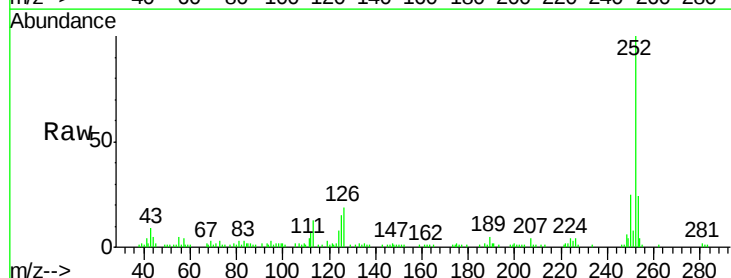


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

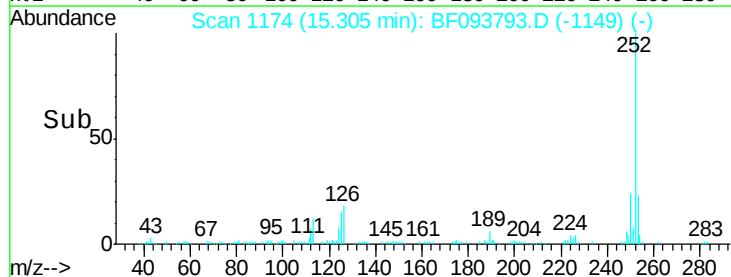
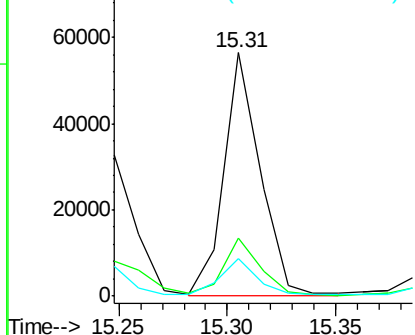


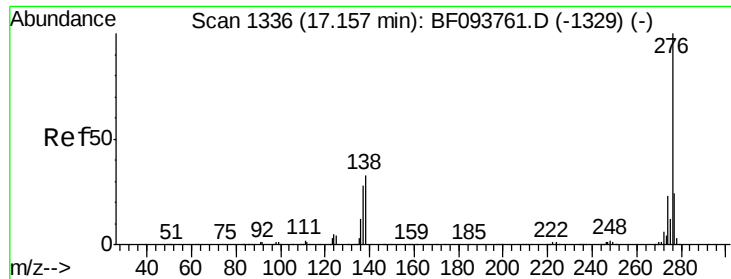
#89
Benzo(a)pyrene
Concen: 3.61 ng
RT: 15.31 min Scan# 1174
Delta R.T. -0.01 min
Lab File: BF093793.D
Acq: 21 Mar 2017 12:57

Tgt Ion:252 Resp: 65734
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 15.3 11.0 16.4



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





#91

Benzo(g,h,i)perylene

Concen: 2.12 ng

RT: 17.12 min Scan# 1333

Delta R.T. -0.02 min

Lab File: BF093793.D

Acq: 21 Mar 2017 12:57

Instrument :

BNA_F

ClientSampleId :

CTMIX-2DL

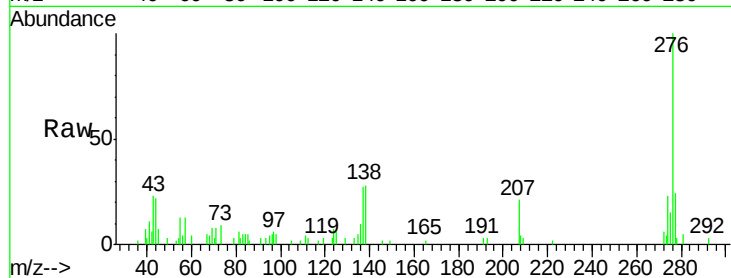
Tgt Ion: 276 Resp: 31923

Ion Ratio Lower Upper

276 100

277 24.2 18.6 28.0

138 27.6 25.4 38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

