

Data File : BF093272.D
Acq On : 1 Mar 2017 4:34
Operator : SJ/MA
Sample : I1972-06DL 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3DL

Quant Time: Mar 01 05:52:40 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 17 17:31:55 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	136235	20.00	ng	-0.05
21) Naphthalene-d8	8.09	136	474935	20.00	ng	-0.06
38) Acenaphthene-d10	9.85	164	202541	20.00	ng	-0.05
63) Phenanthrene-d10	11.33	188	342647	20.00	ng	-0.05
75) Chrysene-d12	13.97	240	301617	20.00	ng	-0.05
86) Perylene-d12	15.40	264	210608	20.00	ng	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	286722	36.11	ng	-0.03
7) Phenol-d6	6.45	99	372218	36.43	ng	-0.03
23) Nitrobenzene-d5	7.38	82	207656	24.35	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	45412	31.00	ng	-0.05
44) 2-Fluorobiphenyl	9.17	172	315849	28.25	ng	-0.05
78) Terphenyl-d14	12.91	244	230109	17.93	ng	-0.06

Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.38	70	24795	3.81	ng	# 80
25) Isophorone	7.38	82	207653	13.07	ng	# 65
32) Benzoic acid	7.92	122	475	7.26	ng	# 35
49) Dimethylphthalate	9.56	163	29209	2.14	ng	# 98
50) 2,6-Dinitrotoluene	9.85	165	26947	9.15	ng	# 31
51) Acenaphthene	9.88	154	51269	4.33	ng	96
54) Dibenzofuran	10.05	168	39033	2.46	ng	91
55) 4-Nitrophenol	10.05	139	13897	5.72	ng	# 6
57) Fluorene	10.40	166	60791	4.99	ng	98
70) Phenanthrene	11.36	178	715005	36.42	ng	98
71) Anthracene	11.41	178	189272	9.60	ng	97
72) Carbazole	11.57	167	61711	3.27	ng	95
74) Fluoranthene	12.54	202	776144	38.33	ng	97
77) Pyrene	12.77	202	799518	35.42	ng	99
80) Benzo(a)anthracene	13.96	228	413924	22.44	ng	99
82) Chrysene	14.00	228	297429	17.22	ng	97
85) Indeno(1,2,3-cd)pyrene	16.79	276	107297	8.02	ng	96
87) Benzo(b)fluoranthene	14.99	252	392904	28.34	ng	# 97
88) Benzo(k)fluoranthene	14.99	252	392904	32.83	ng	# 96
89) Benzo(a)pyrene	15.35	252	216724	18.07	ng	98
90) Dibenzo(a,h)anthracene	16.79	278	26677	2.75	ng	# 75
91) Benzo(g,h,i)perylene	17.21	276	102217	10.44	ng	# 90

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

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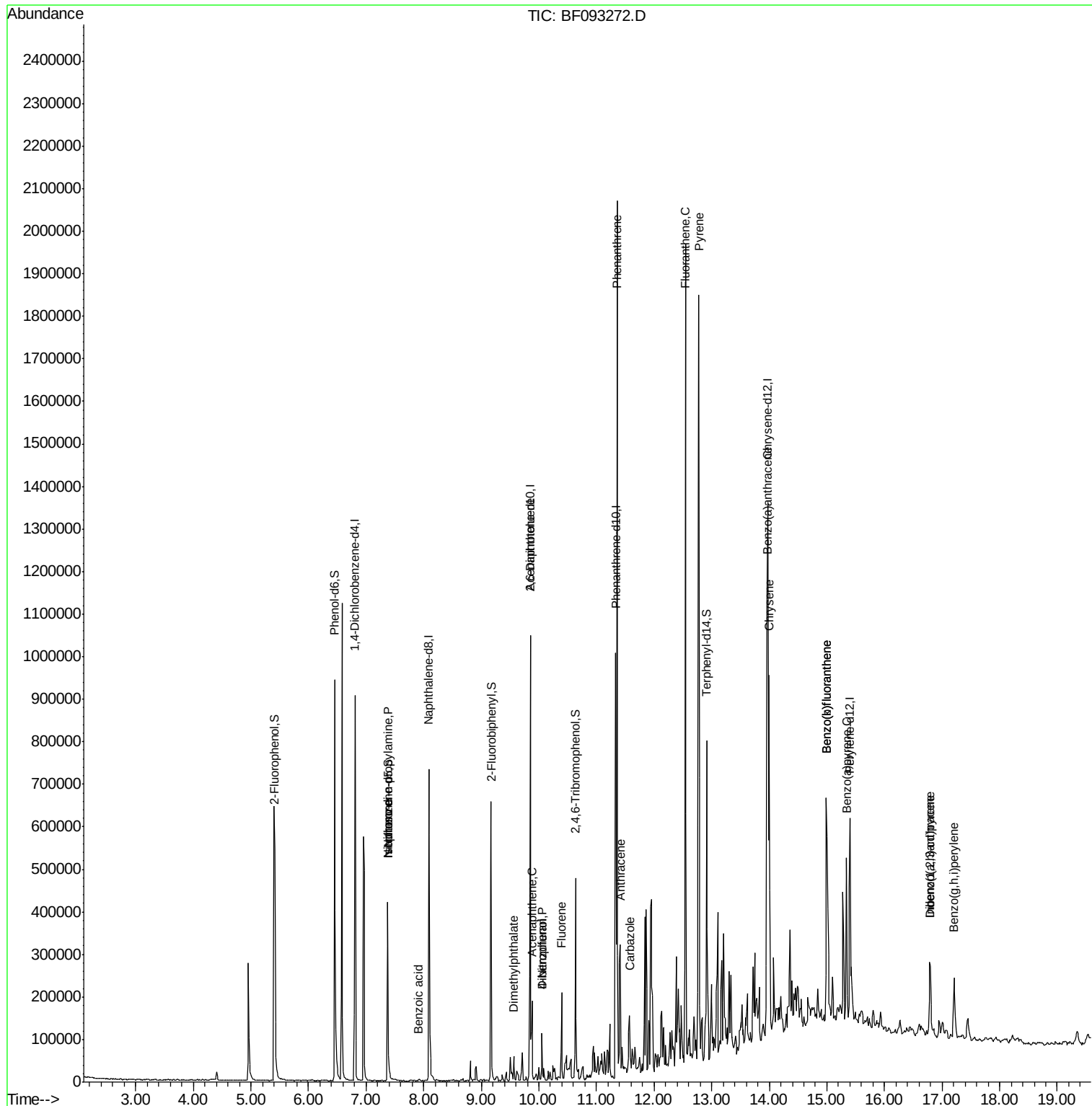
Quant Time: Mar 01 05:52:40 2017

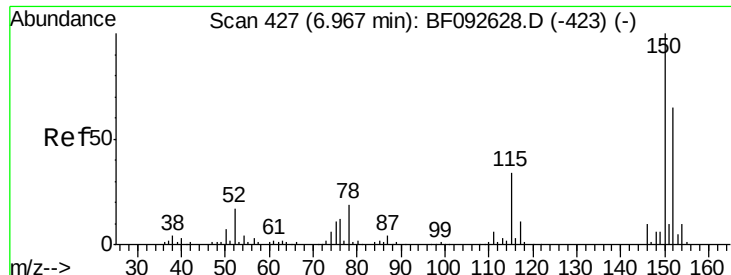
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M

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QLast Update : Fri Feb 17 17:31:55 2017

Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.81 min Scan# 413

Delta R.T. -0.05 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

Instrument :

BNA_F

ClientSampleId :

E2B21-BASE-3DL

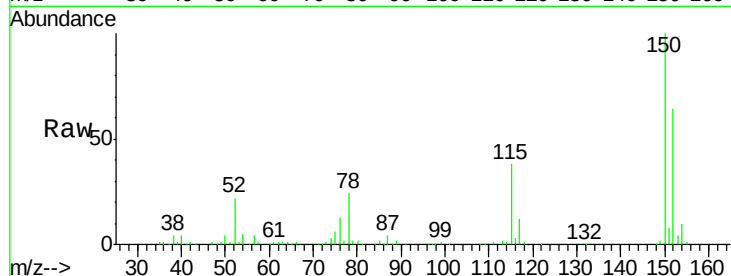
Tgt Ion:152 Resp: 136235

Ion Ratio Lower Upper

152 100

150 155.8 124.9 187.3

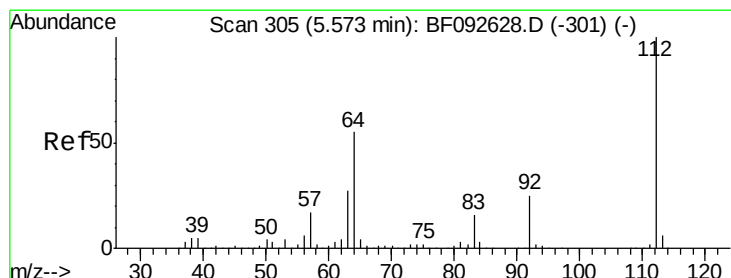
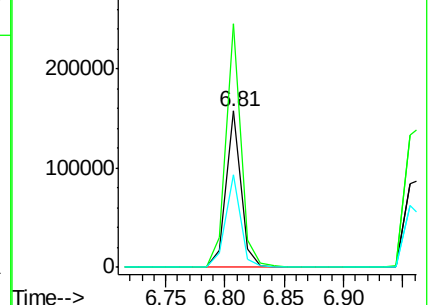
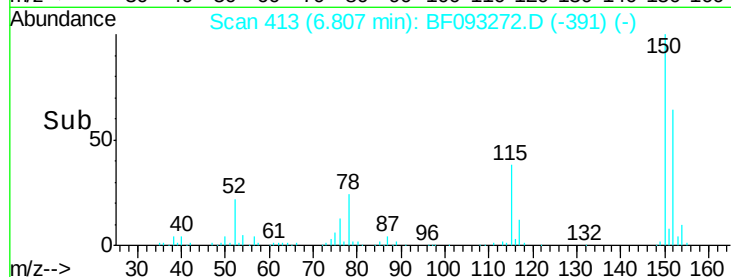
115 59.6 46.0 69.0



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: 36.11 ng

RT: 5.41 min Scan# 291

Delta R.T. -0.03 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

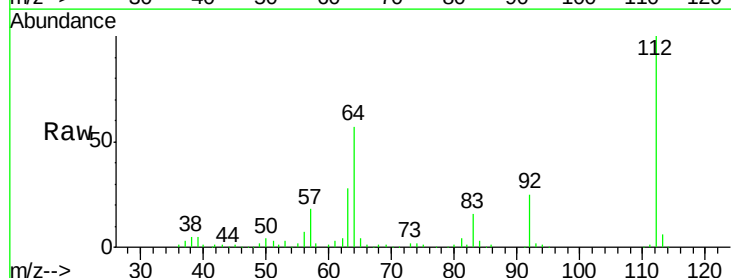
Tgt Ion:112 Resp: 286722

Ion Ratio Lower Upper

112 100

64 56.7 46.1 69.1

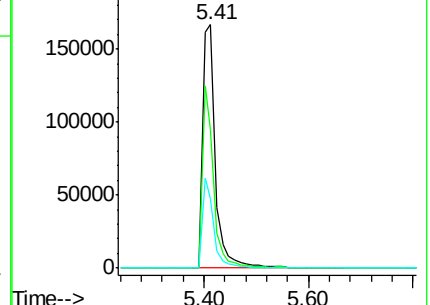
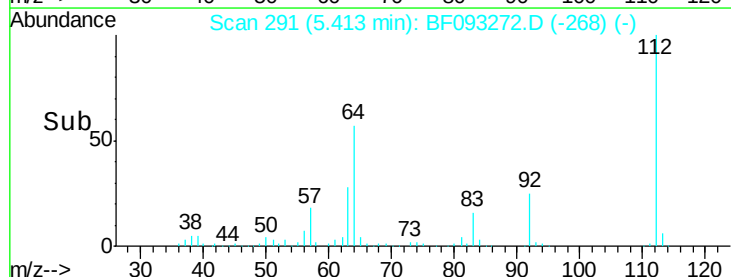
63 28.5 23.8 35.6

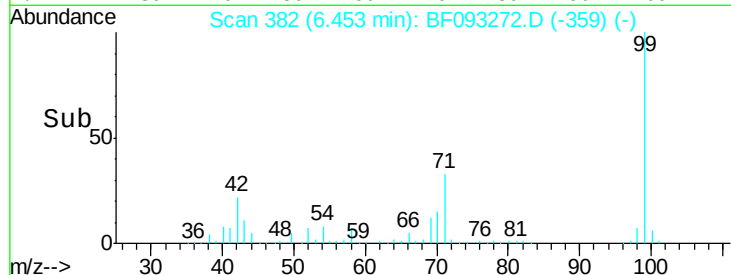
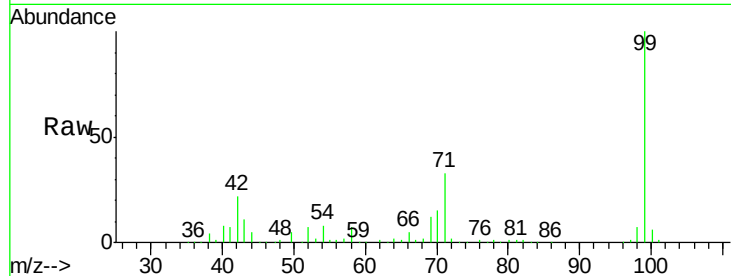
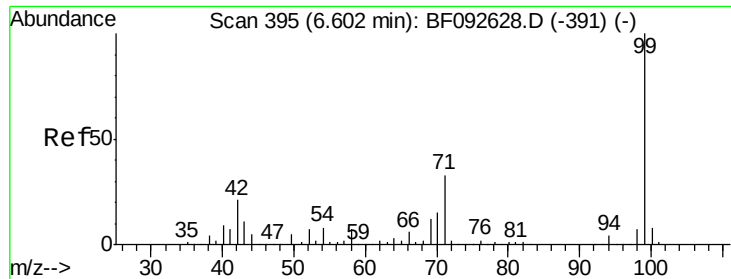


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 36.43 ng

RT: 6.45 min Scan# 382

Delta R.T. -0.03 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

Instrument :

BNA_F

ClientSampleId :

E2B21-BASE-3DL

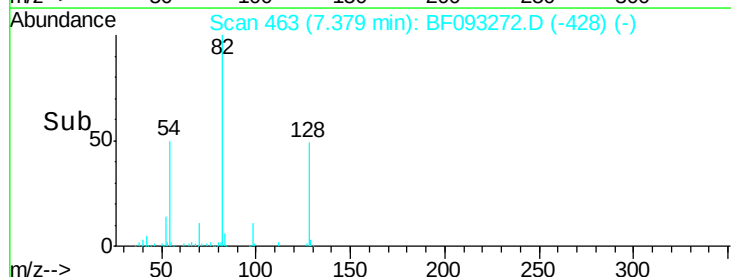
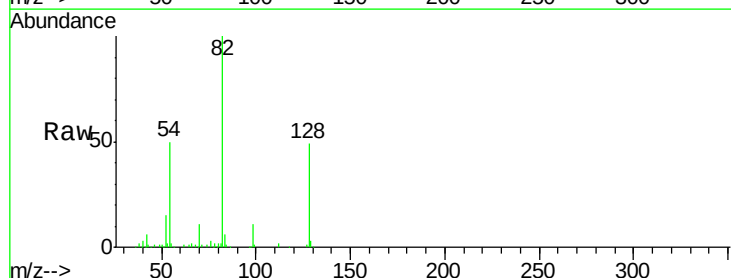
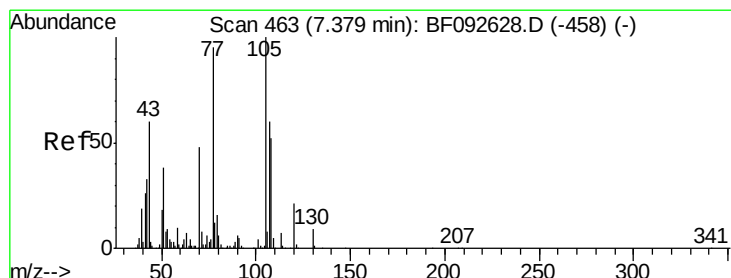
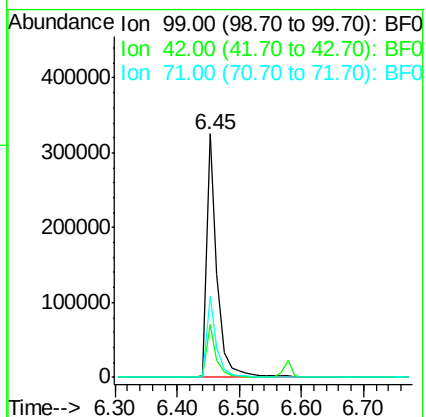
Tgt Ion: 99 Resp: 372218

Ion Ratio Lower Upper

99 100

42 21.7 15.6 23.4

71 33.3 27.5 41.3



#19

n-Nitroso-di-n-propylamine

Concen: 3.81 ng

RT: 7.38 min Scan# 463

Delta R.T. 0.10 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

Tgt Ion: 70 Resp: 24795

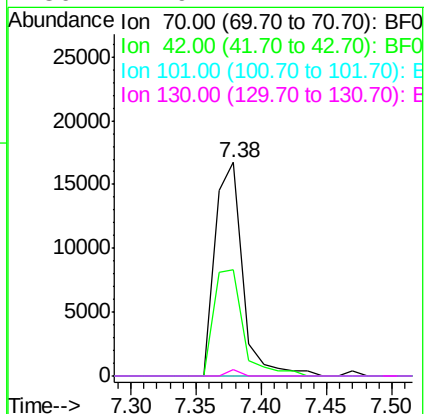
Ion Ratio Lower Upper

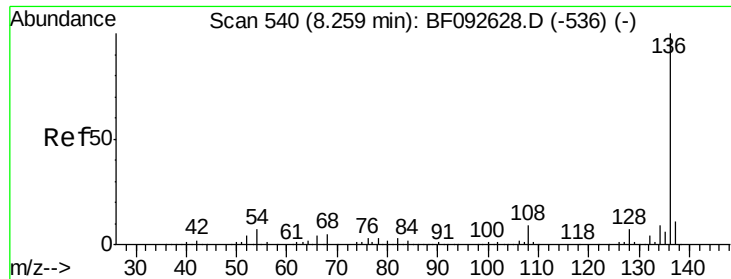
70 100

42 49.8 49.4 74.0

101 0.0 7.4 11.2#

130 2.9 14.2 21.4#

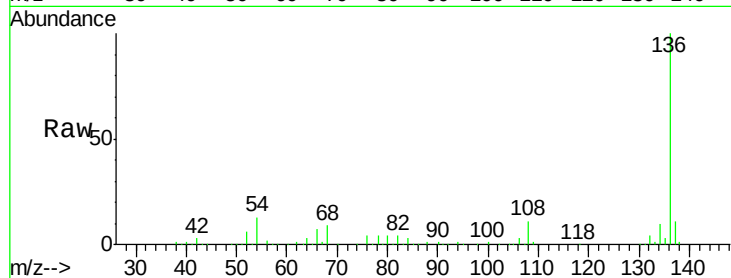




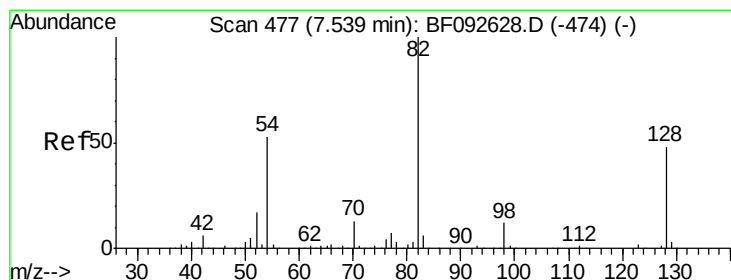
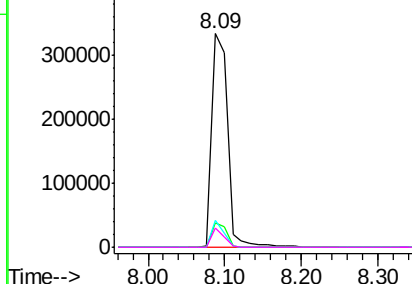
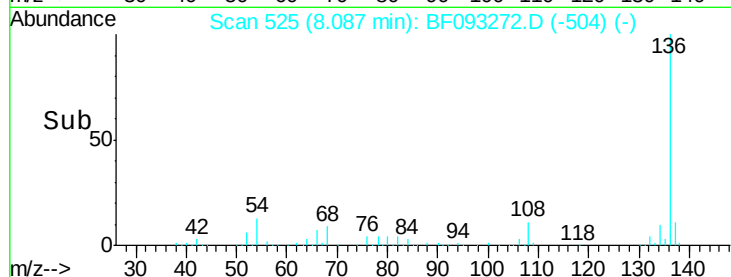
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.09 min Scan# 525
Delta R.T. -0.06 min
Lab File: BF093272.D
Acq: 1 Mar 2017 4:34

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3DL

Tgt Ion:	136	Resp:	474935
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.4	12.6
54	12.8	4.5	6.7#
68	9.2	3.6	5.4#

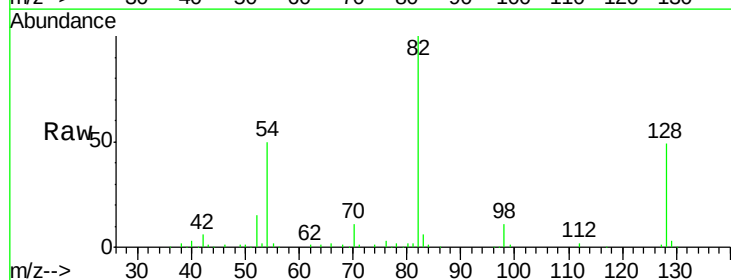


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

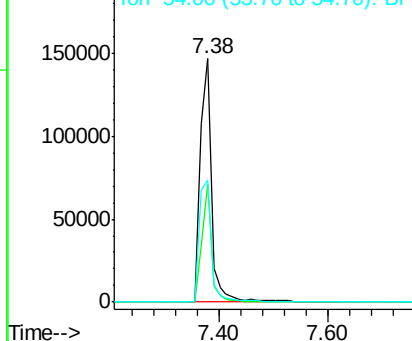
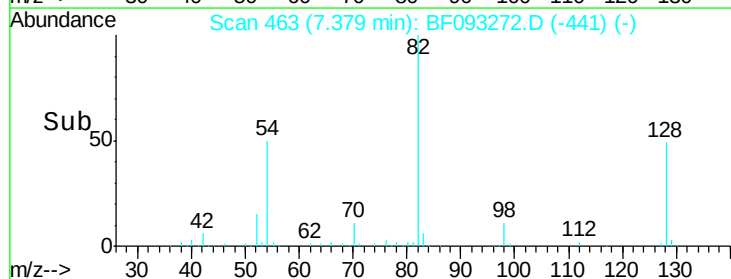


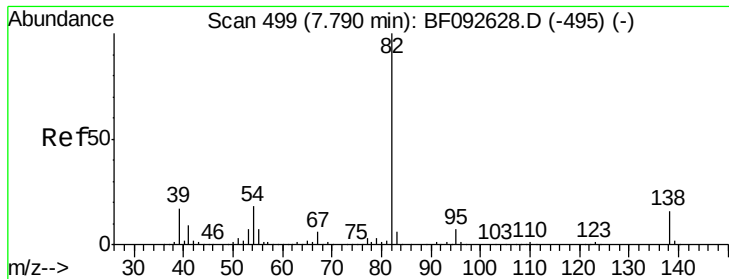
#23
Nitrobenzene-d5
Concen: 24.35 ng
RT: 7.38 min Scan# 463
Delta R.T. -0.05 min
Lab File: BF093272.D
Acq: 1 Mar 2017 4:34

Tgt Ion:	82	Resp:	207656
Ion	Ratio	Lower	Upper
82	100		
128	48.8	34.6	52.0
54	50.3	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





#25

Isophorone

Concen: 13.07 ng

RT: 7.38 min Scan# 463

Delta R.T. -0.31 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

Instrument :

BNA_F

ClientSampleId :

E2B21-BASE-3DL

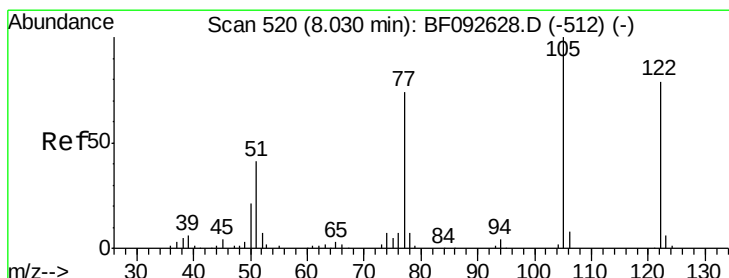
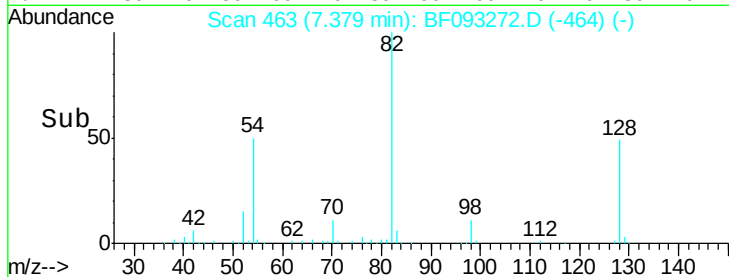
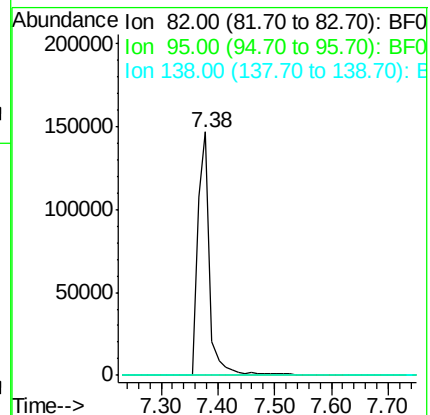
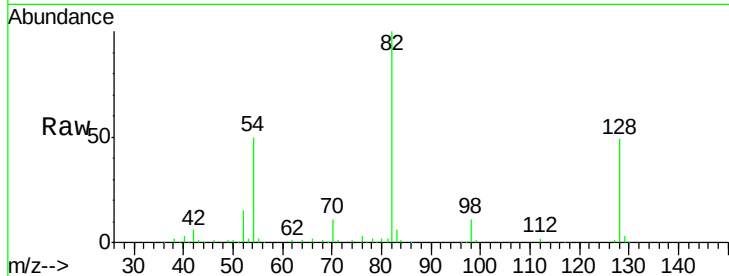
Tgt Ion: 82 Resp: 207653

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

138 0.0 14.6 22.0#



#32

Benzoic acid

Concen: 7.26 ng

RT: 7.92 min Scan# 510

Delta R.T. -0.01 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

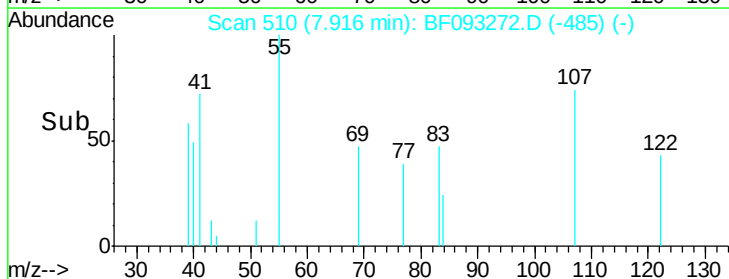
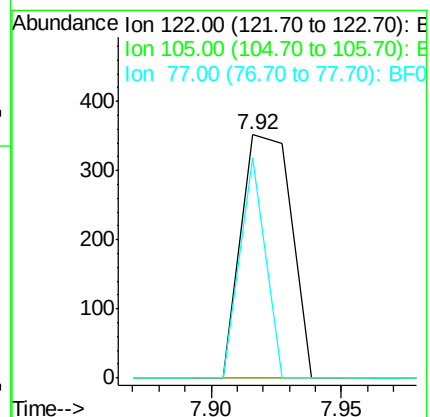
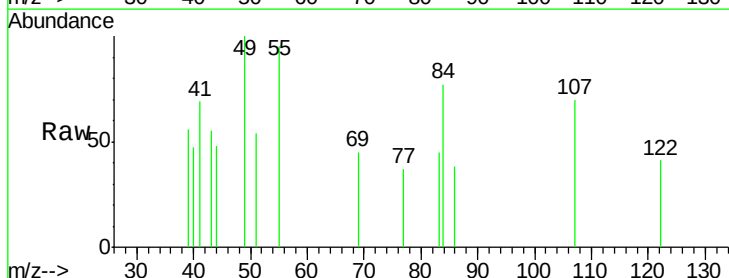
Tgt Ion: 122 Resp: 475

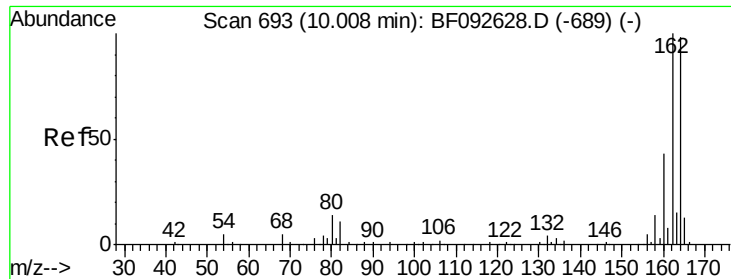
Ion Ratio Lower Upper

122 100

105 0.0 107.2 147.2#

77 90.6 74.5 114.5





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.05 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

Instrument :

BNA_F

ClientSampleId :

E2B21-BASE-3DL

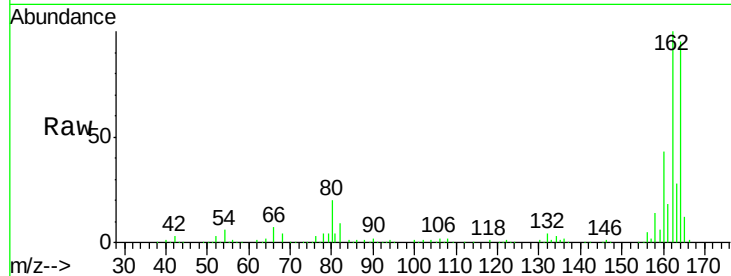
Tgt Ion:164 Resp: 202541

Ion Ratio Lower Upper

164 100

162 105.6 80.2 120.2

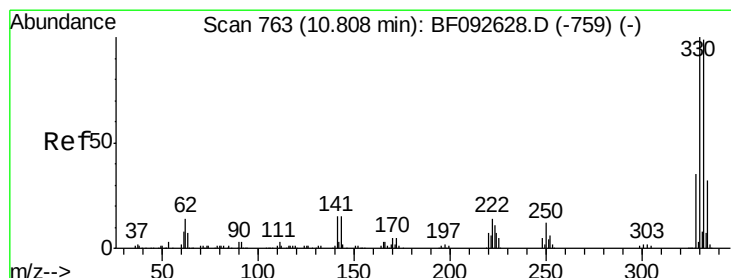
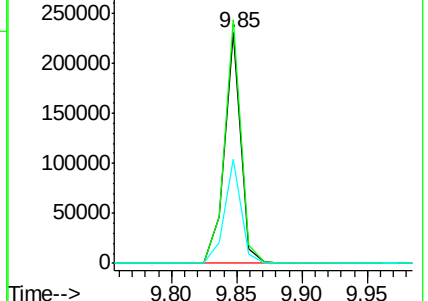
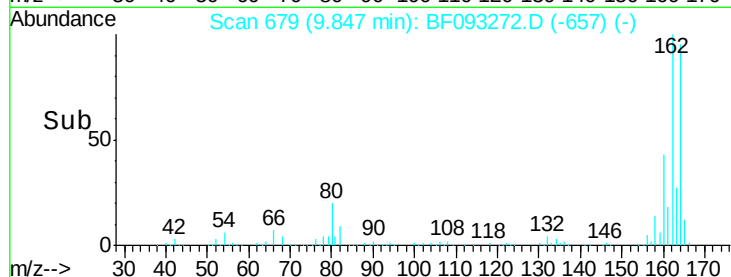
160 45.3 36.9 55.3



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: 31.00 ng

RT: 10.64 min Scan# 748

Delta R.T. -0.05 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

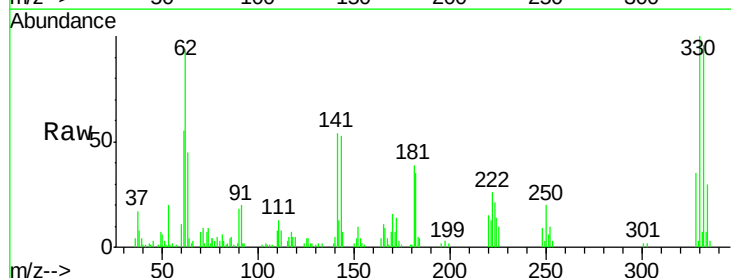
Tgt Ion:330 Resp: 45412

Ion Ratio Lower Upper

330 100

332 97.2 77.4 116.2

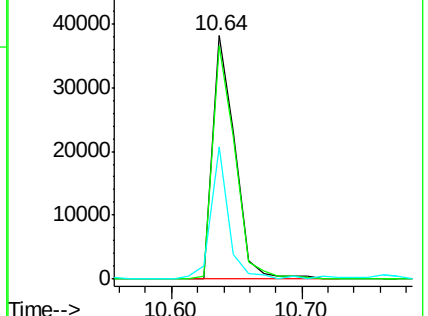
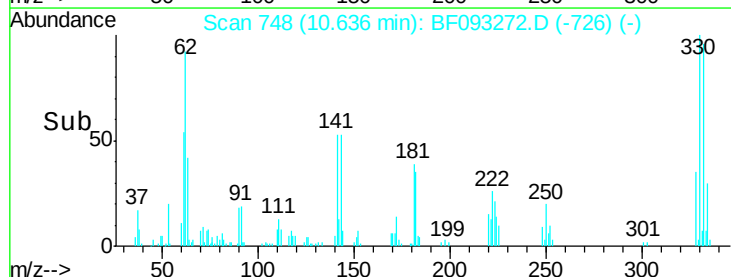
141 43.8 34.1 51.1

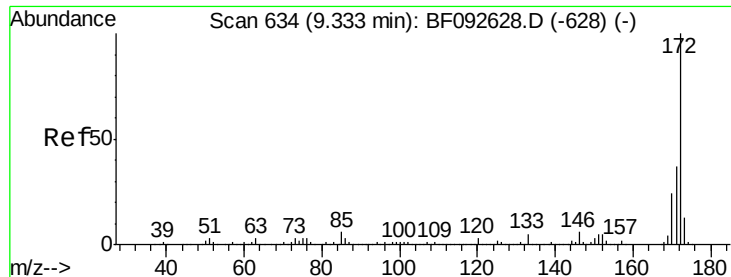


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

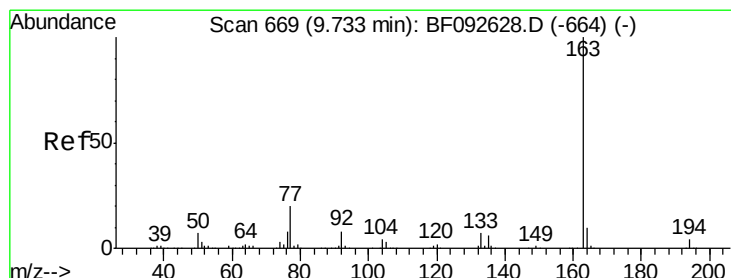
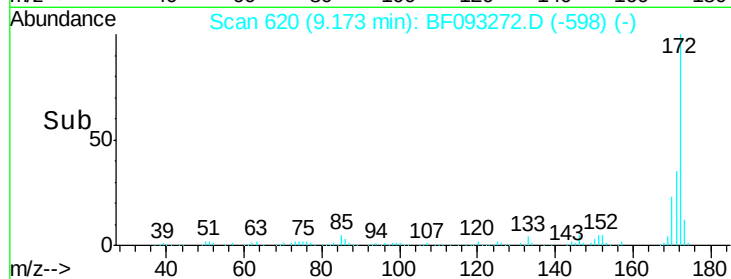
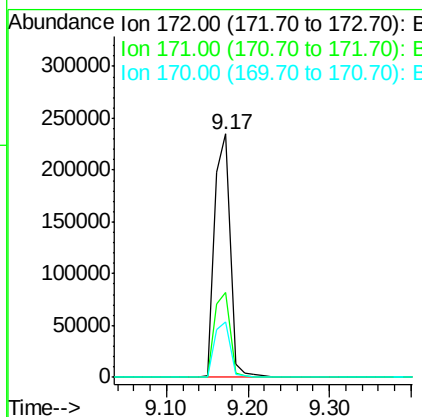
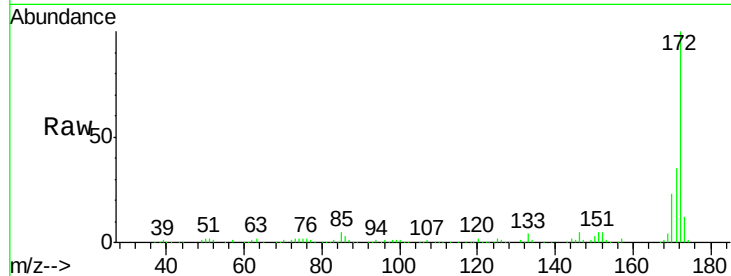




#44
 2-Fluorobiphenyl
 Concen: 28.25 ng
 RT: 9.17 min Scan# 620
 Delta R.T. -0.05 min
 Lab File: BF093272.D
 Acq: 1 Mar 2017 4:34

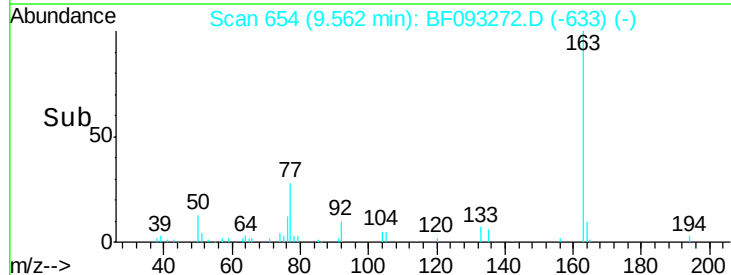
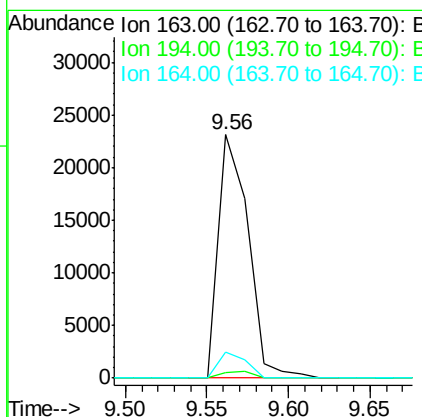
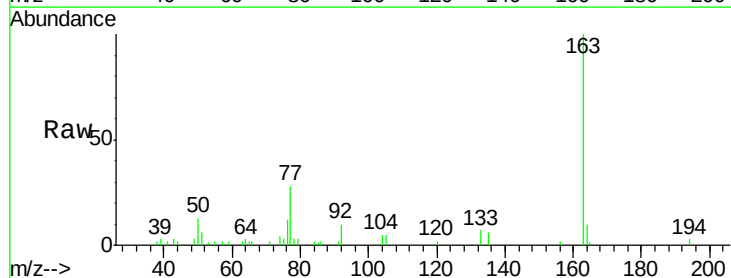
Instrument :
 BNA_F
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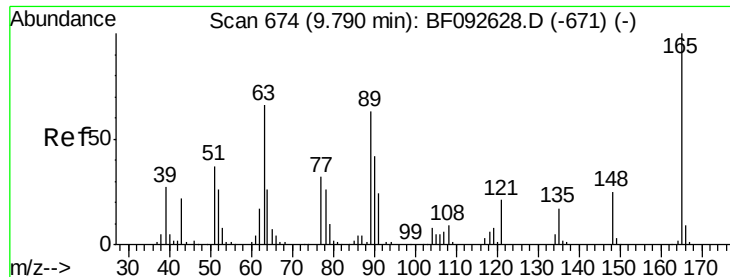
Tgt Ion:172 Resp: 315849
 Ion Ratio Lower Upper
 172 100
 171 34.7 29.4 44.0
 170 22.6 20.2 30.4



#49
 Dimethylphthalate
 Concen: 2.14 ng
 RT: 9.56 min Scan# 654
 Delta R.T. -0.06 min
 Lab File: BF093272.D
 Acq: 1 Mar 2017 4:34

Tgt Ion:163 Resp: 29209
 Ion Ratio Lower Upper
 163 100
 194 2.5 3.0 4.4#
 164 10.4 8.0 12.0

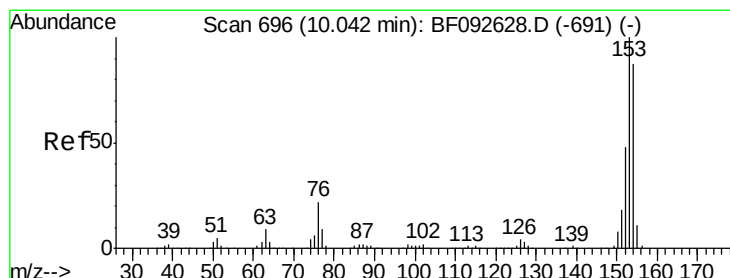
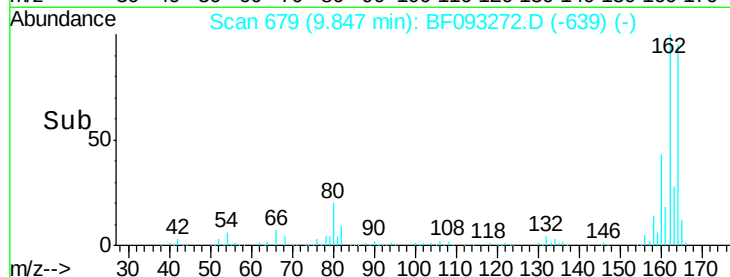
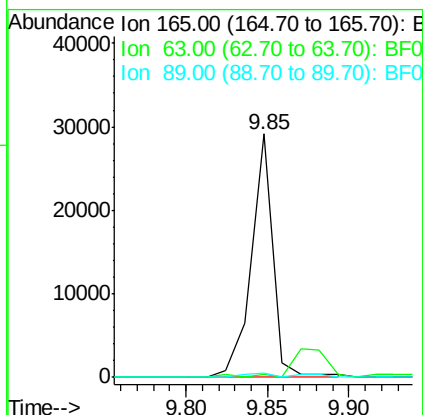
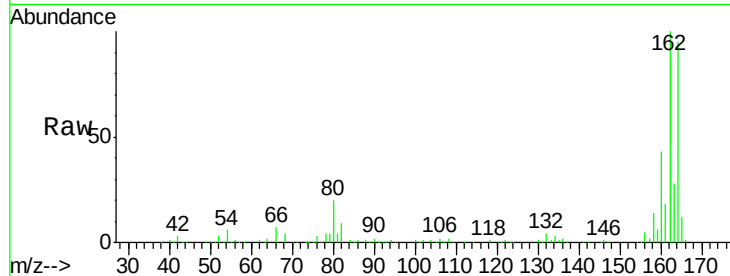




#50
 2,6-Dinitrotoluene
 Concen: 9.15 ng
 RT: 9.85 min Scan# 679
 Delta R.T. 0.16 min
 Lab File: BF093272.D
 Acq: 1 Mar 2017 4:34

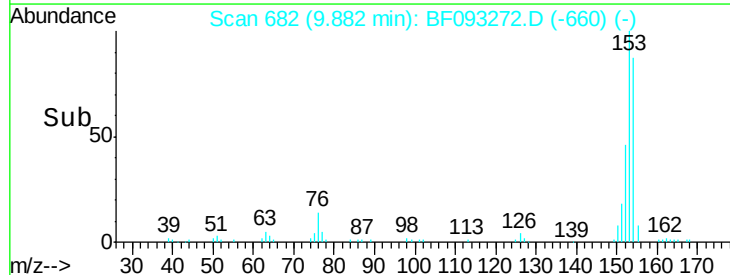
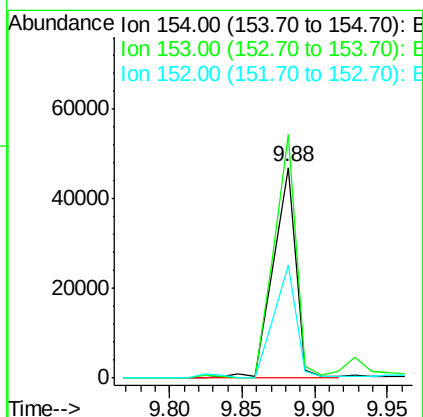
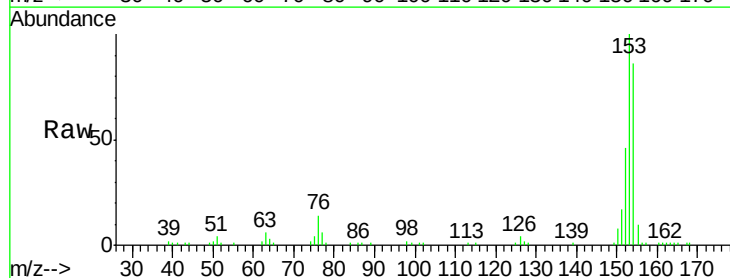
Instrument :
 BNA_F
 ClientSampleId :
 E2B21-BASE-3DL

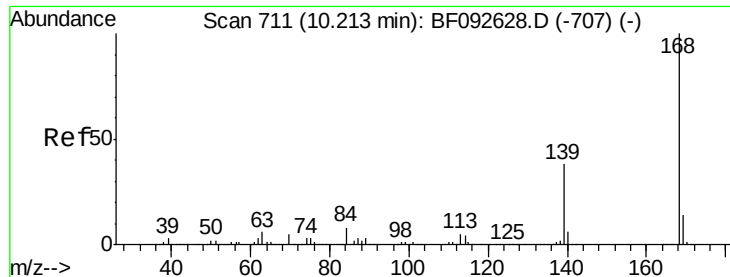
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	36.2	54.4#
89	1.9	40.2	60.4#



#51
 Acenaphthene
 Concen: 4.33 ng
 RT: 9.88 min Scan# 682
 Delta R.T. -0.05 min
 Lab File: BF093272.D
 Acq: 1 Mar 2017 4:34

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.8	88.6	133.0
152	53.6	41.6	62.4

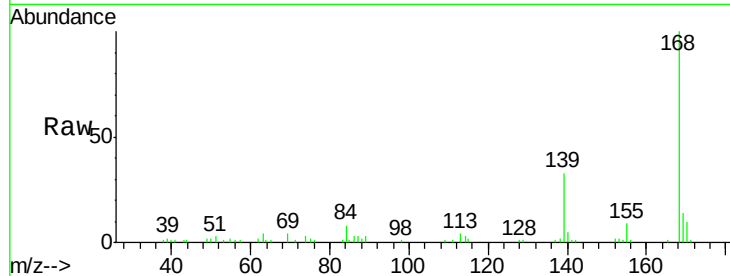




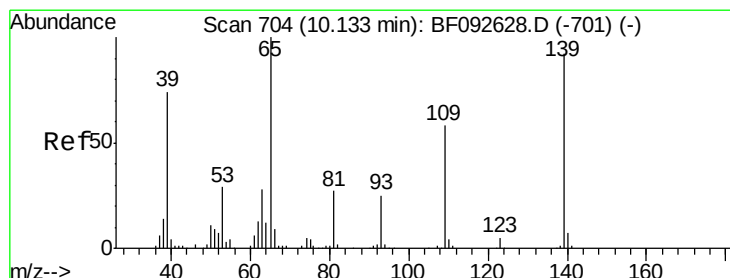
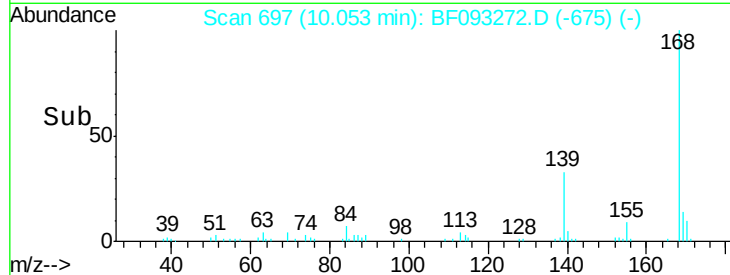
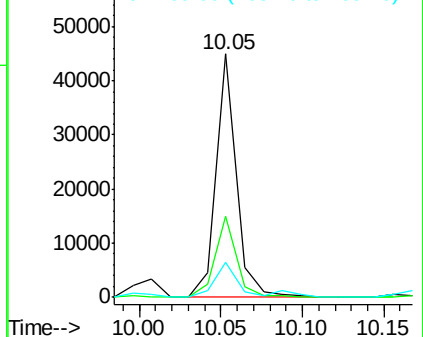
#54
Dibenzenofuran
Concen: 2.46 ng
RT: 10.05 min Scan# 697
Delta R.T. -0.05 min
Lab File: BF093272.D
Acq: 1 Mar 2017 4:34

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3DL

Tgt Ion:168 Resp: 39033
Ion Ratio Lower Upper
168 100
139 33.3 32.6 49.0
169 14.4 11.3 16.9

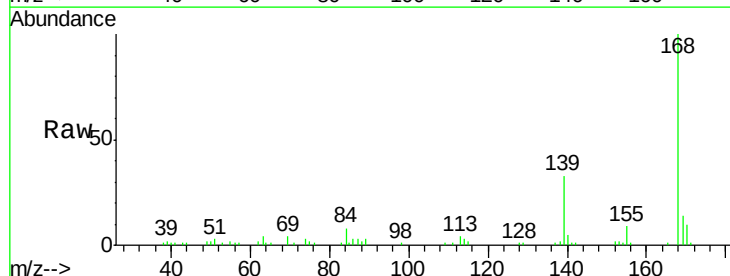


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

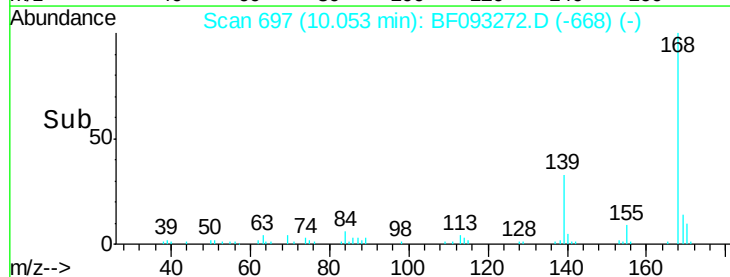
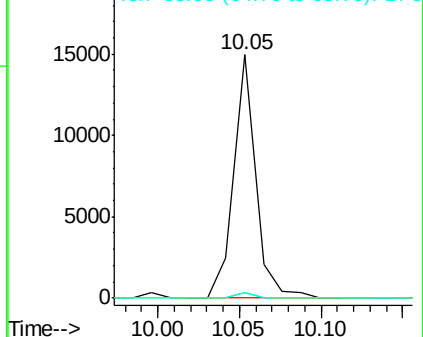


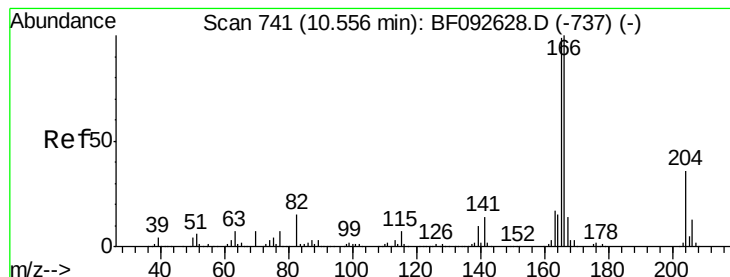
#55
4-Nitrophenol
Concen: 5.72 ng
RT: 10.05 min Scan# 697
Delta R.T. 0.03 min
Lab File: BF093272.D
Acq: 1 Mar 2017 4:34

Tgt Ion:139 Resp: 13897
Ion Ratio Lower Upper
139 100
109 2.1 52.2 92.2#
65 2.1 85.8 125.8#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0





#57

Fluorene

Concen: 4.99 ng

RT: 10.40 min Scan# 727

Delta R.T. -0.05 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

Instrument :

BNA_F

ClientSampleId :

E2B21-BASE-3DL

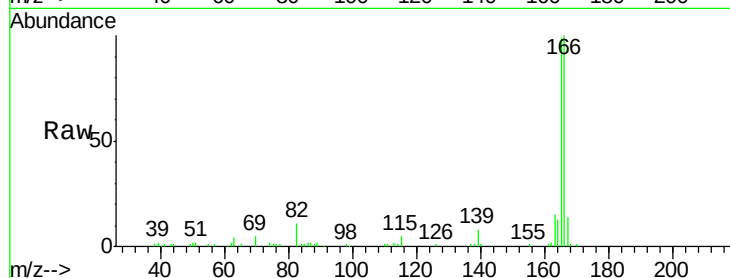
Tgt Ion:166 Resp: 60791

Ion Ratio Lower Upper

166 100

165 98.9 77.8 116.8

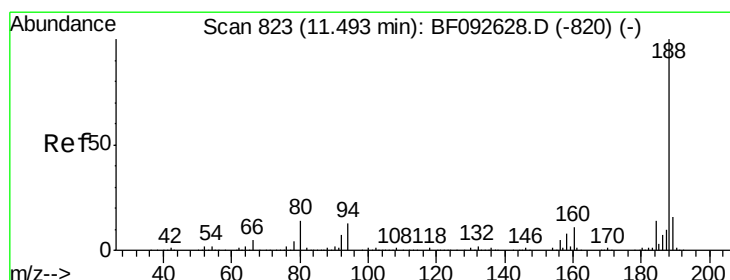
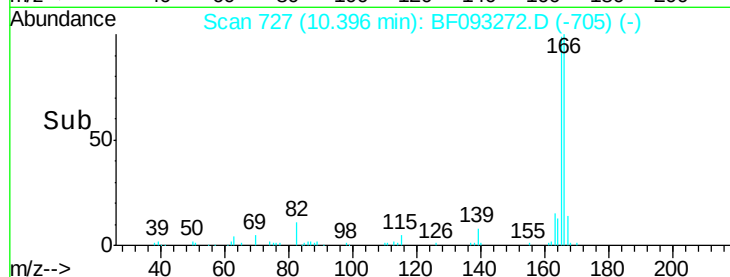
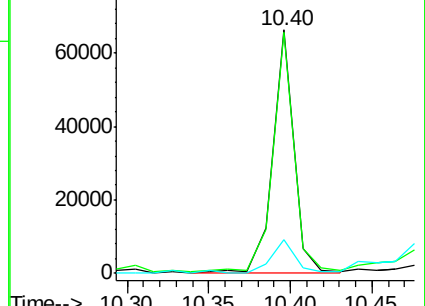
167 14.0 10.8 16.2



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: 11.33 min Scan# 809

Delta R.T. -0.05 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

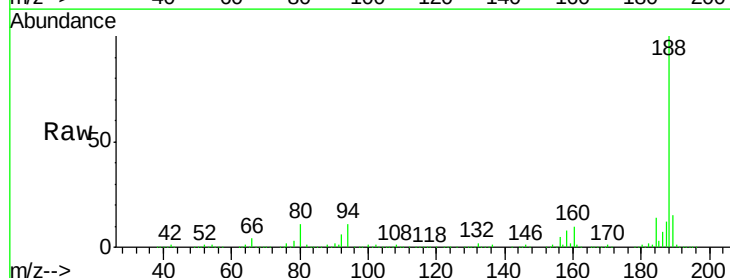
Tgt Ion:188 Resp: 342647

Ion Ratio Lower Upper

188 100

94 11.1 10.0 15.0

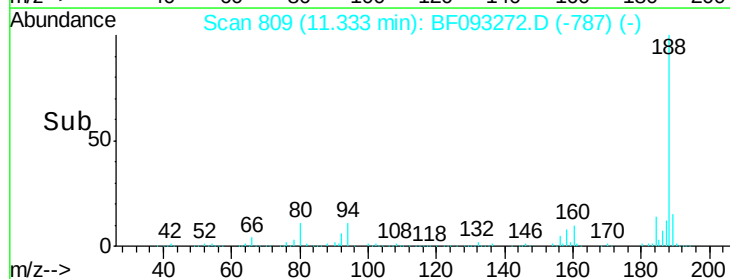
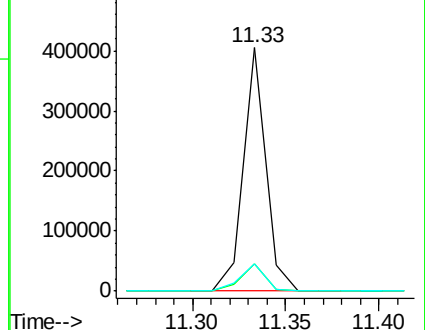
80 11.4 11.2 16.8

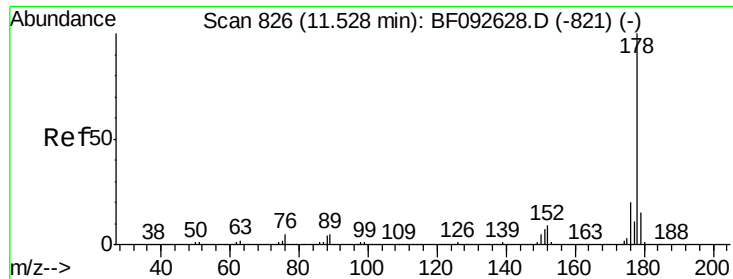


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

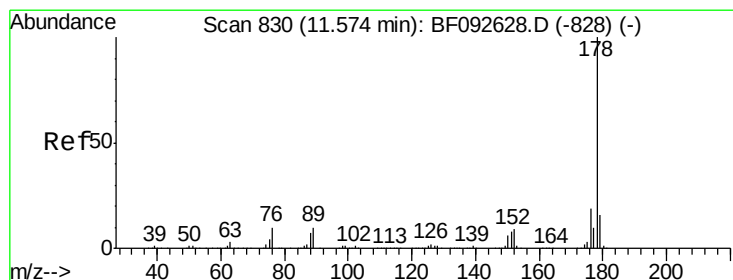
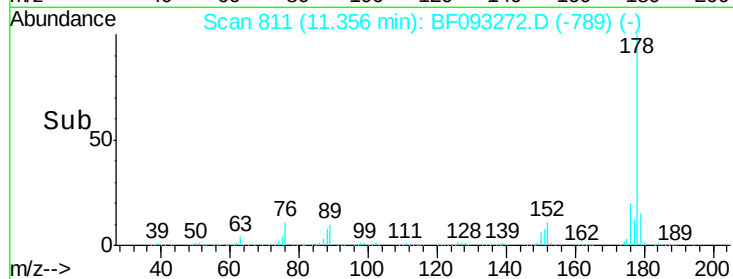
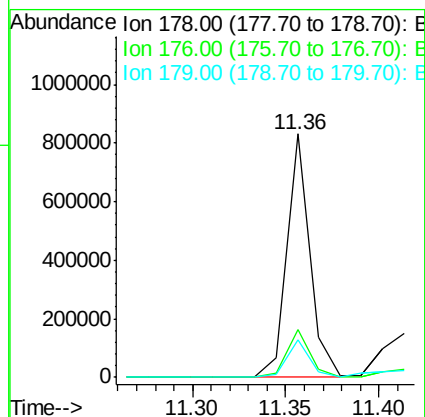
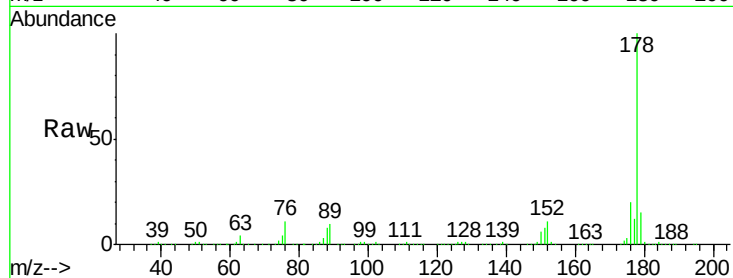




#70
Phenanthrene
Concen: 36.42 ng
RT: 11.36 min Scan# 811
Delta R.T. -0.05 min
Lab File: BF093272.D
Acq: 1 Mar 2017 4:34

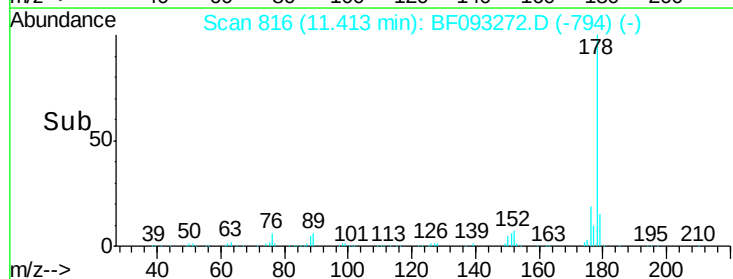
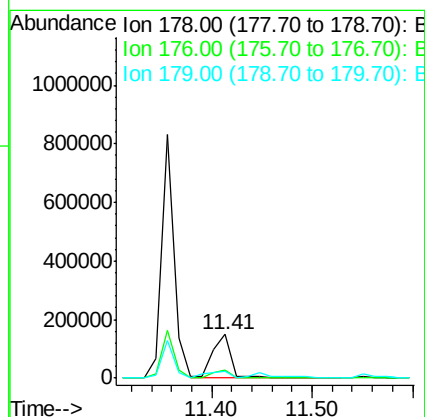
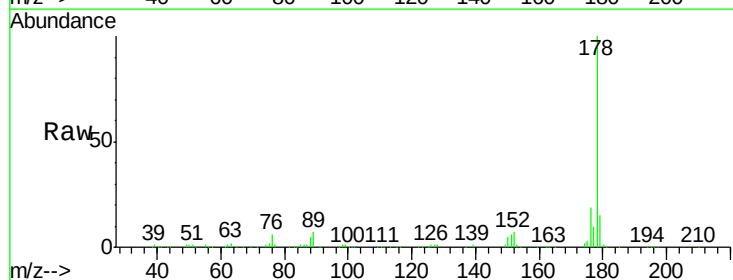
Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3DL

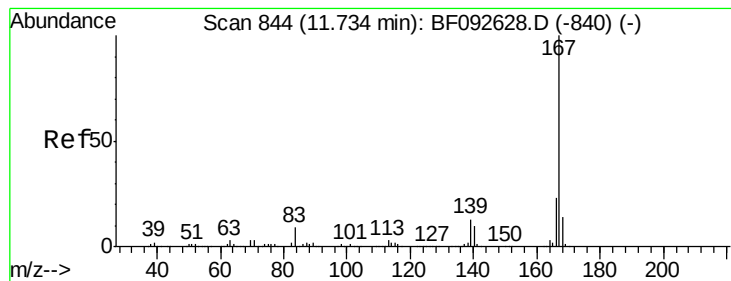
Tgt Ion:178 Resp: 715005
Ion Ratio Lower Upper
178 100
176 19.8 16.6 25.0
179 15.5 12.8 19.2



#71
Anthracene
Concen: 9.60 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.05 min
Lab File: BF093272.D
Acq: 1 Mar 2017 4:34

Tgt Ion:178 Resp: 189272
Ion Ratio Lower Upper
178 100
176 18.5 15.9 23.9
179 14.8 13.2 19.8





#72

Carbazole

Concen: 3.27 ng

RT: 11.57 min Scan# 830

Delta R.T. -0.03 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

Instrument :

BNA_F

ClientSampleId :

E2B21-BASE-3DL

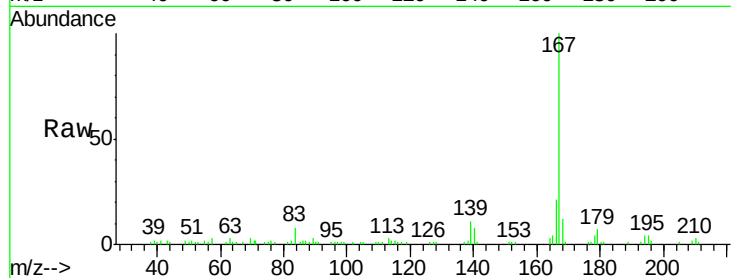
Tgt Ion:167 Resp: 61711

Ion Ratio Lower Upper

167 100

166 21.0 18.2 27.2

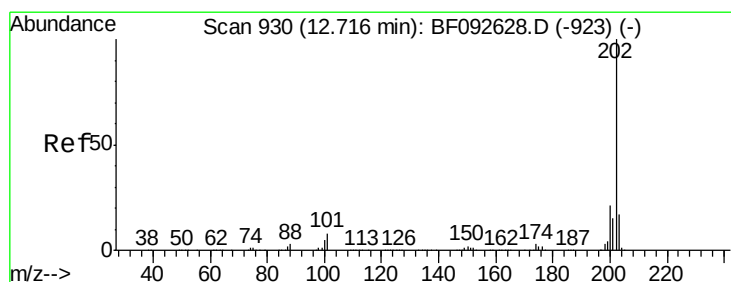
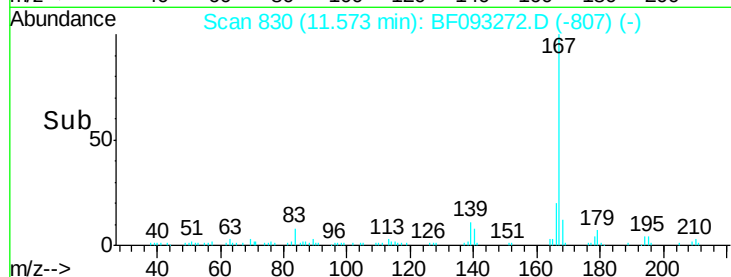
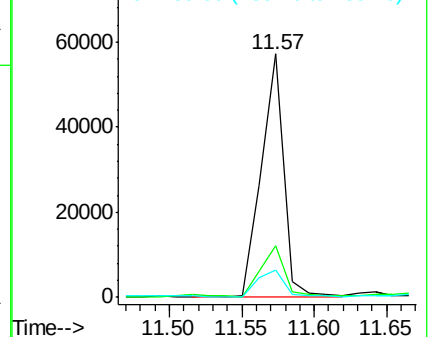
139 11.5 11.4 17.2



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: 38.33 ng

RT: 12.54 min Scan# 915

Delta R.T. -0.05 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

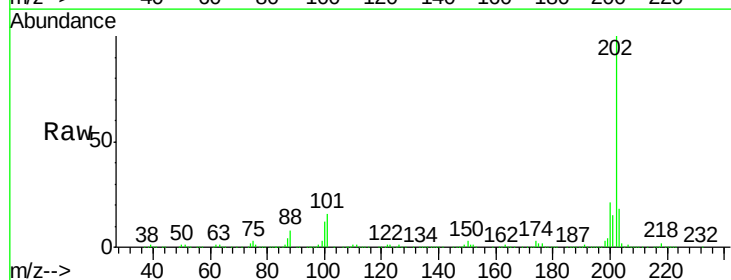
Tgt Ion:202 Resp: 776144

Ion Ratio Lower Upper

202 100

101 16.2 0.0 34.6

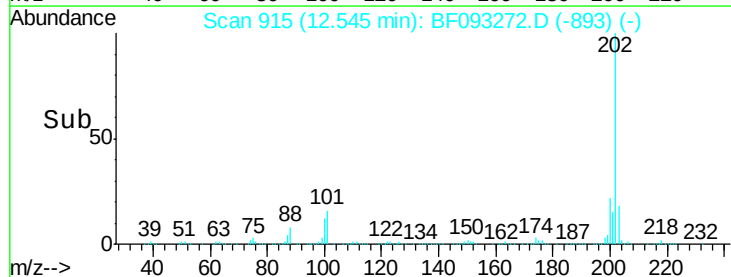
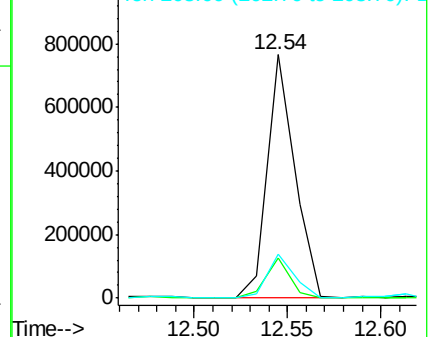
203 18.1 0.0 38.7

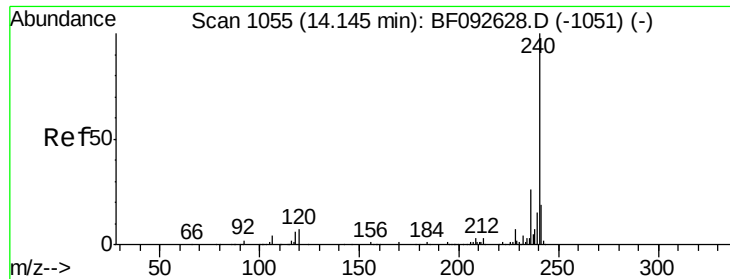


Abundance Ion 202.00 (201.70 to 202.70): E

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# 1040

Delta R.T. -0.05 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

Instrument :

BNA_F

ClientSampleId :

E2B21-BASE-3DL

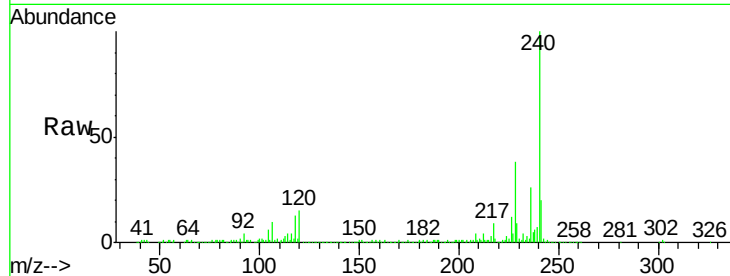
Tgt Ion:240 Resp: 301617

Ion Ratio Lower Upper

240 100

120 15.3 12.9 19.3

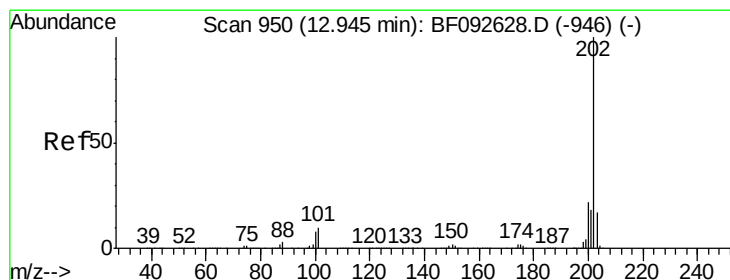
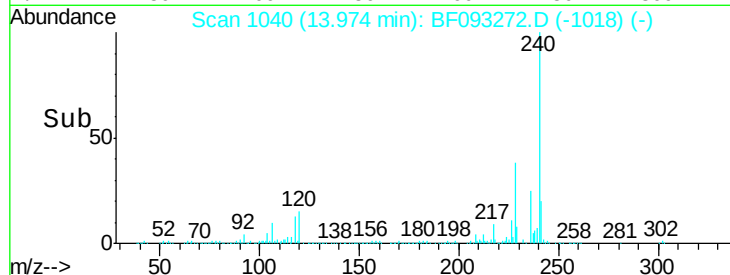
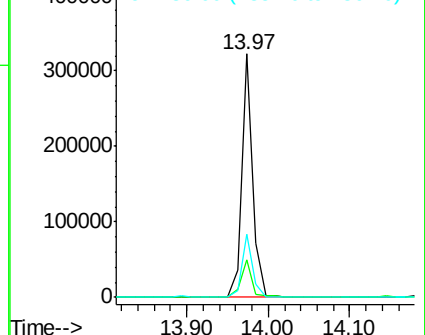
236 26.0 20.9 31.3



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: 35.42 ng

RT: 12.77 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

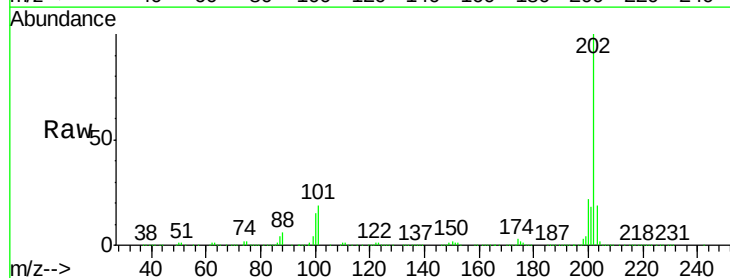
Tgt Ion:202 Resp: 799518

Ion Ratio Lower Upper

202 100

200 21.5 17.7 26.5

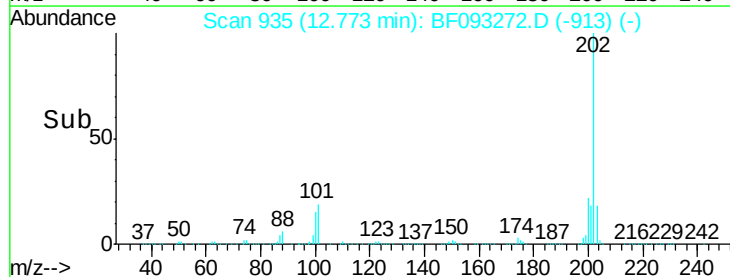
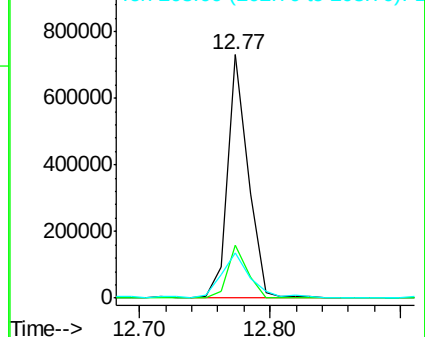
203 18.5 14.7 22.1

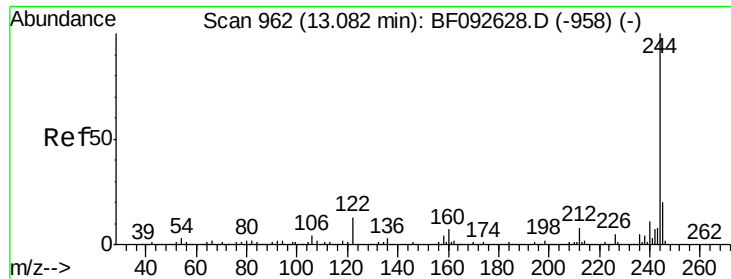


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

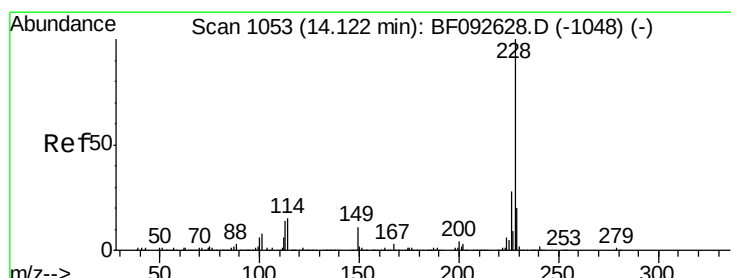
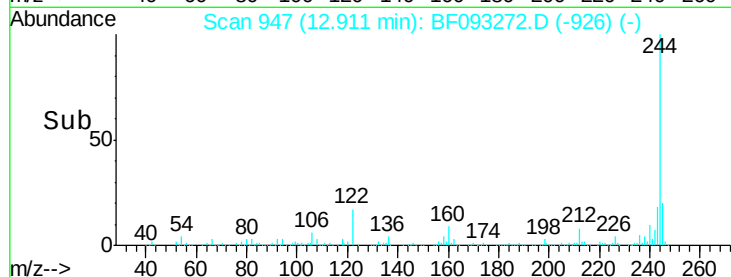
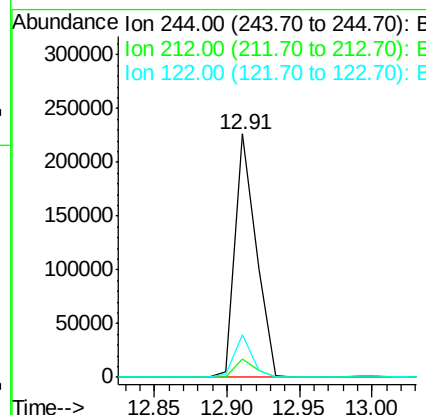
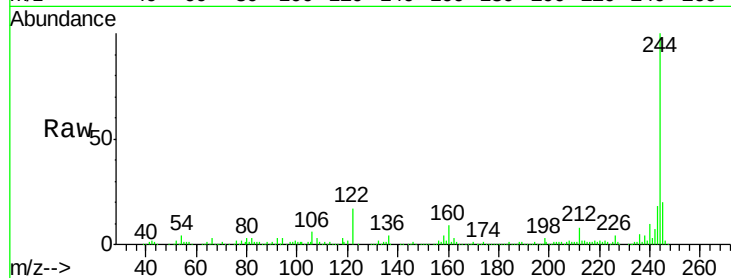




#78
 Terphenyl-d14
 Concen: 17.93 ng
 RT: 12.91 min Scan# 947
 Delta R.T. -0.06 min
 Lab File: BF093272.D
 Acq: 1 Mar 2017 4:34

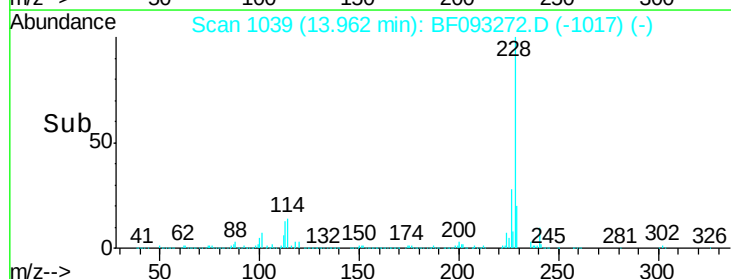
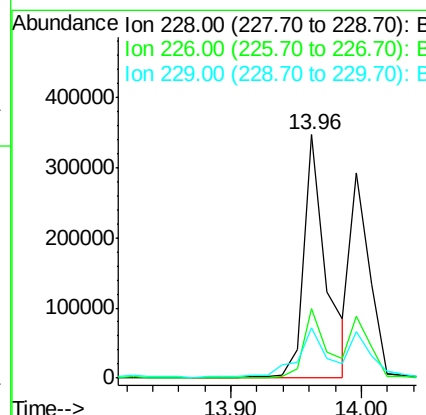
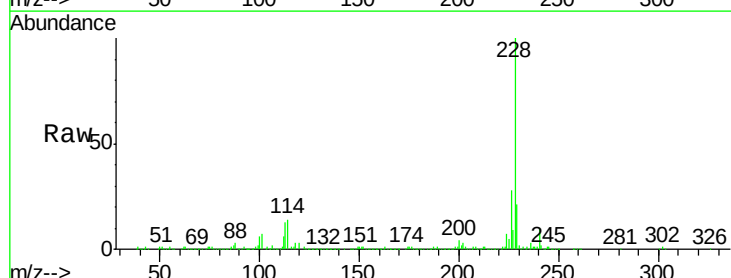
Instrument :
 BNA_F
 ClientSampleId :
 E2B21-BASE-3DL

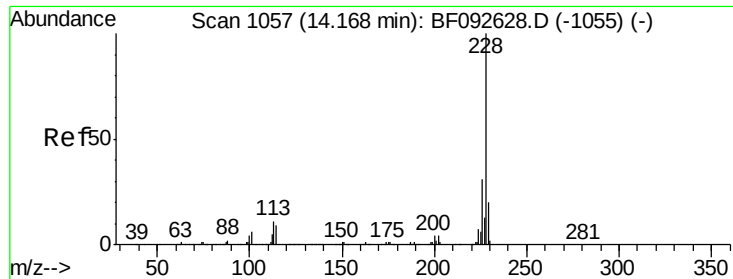
Tgt Ion:244 Resp: 230109
 Ion Ratio Lower Upper
 244 100
 212 7.6 6.2 9.2
 122 17.4 11.4 17.2#



#80
 Benzo(a)anthracene
 Concen: 22.44 ng
 RT: 13.96 min Scan# 1039
 Delta R.T. -0.05 min
 Lab File: BF093272.D
 Acq: 1 Mar 2017 4:34

Tgt Ion:228 Resp: 413924
 Ion Ratio Lower Upper
 228 100
 226 28.4 22.4 33.6
 229 20.9 16.2 24.4





#82

Chrysene

Concen: 17.22 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.05 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

Instrument :

BNA_F

ClientSampleId :

E2B21-BASE-3DL

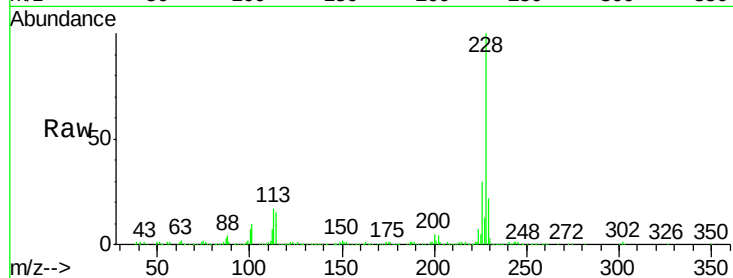
Tgt Ion:228 Resp: 297429

Ion Ratio Lower Upper

228 100

226 30.2 25.4 38.0

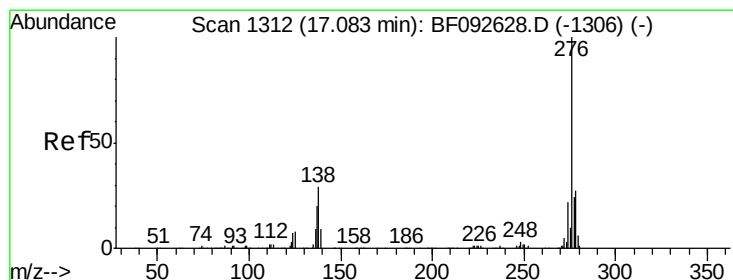
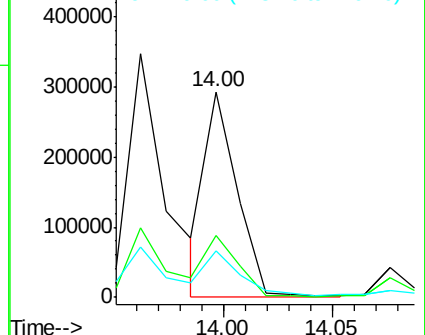
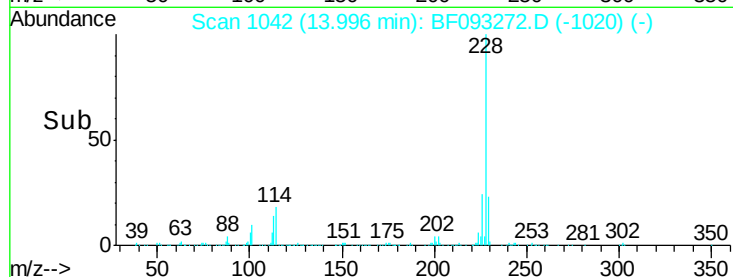
229 22.3 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.02 ng

RT: 16.79 min Scan# 1286

Delta R.T. -0.07 min

Lab File: BF093272.D

Acq: 1 Mar 2017 4:34

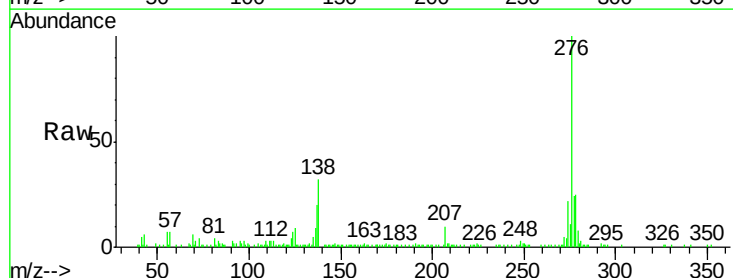
Tgt Ion:276 Resp: 107297

Ion Ratio Lower Upper

276 100

138 26.5 21.8 32.6

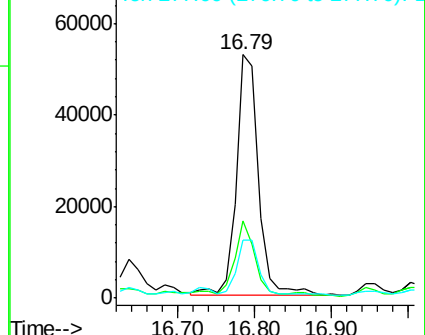
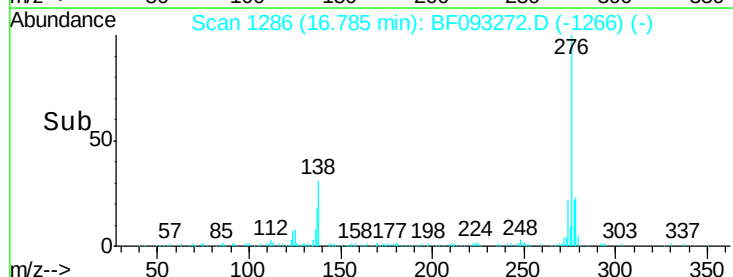
277 22.2 20.2 30.4

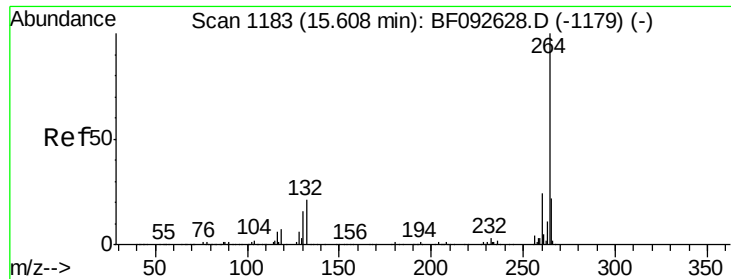


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

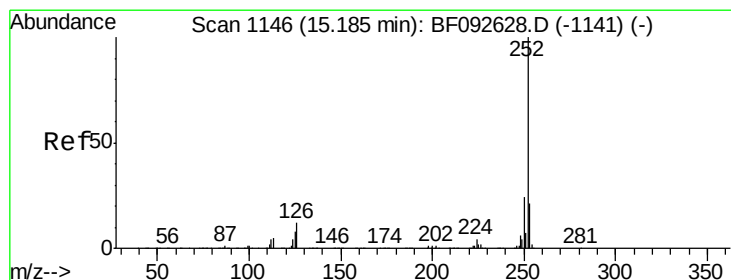
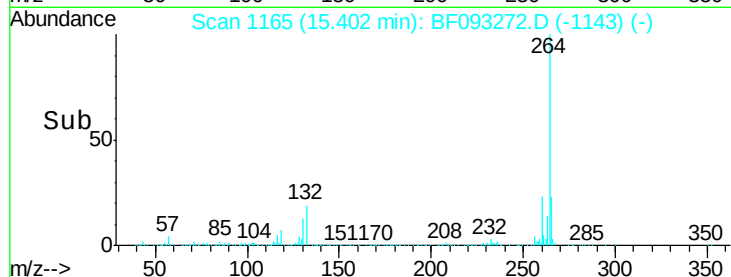
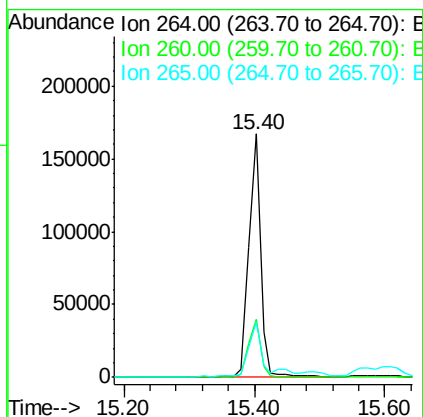
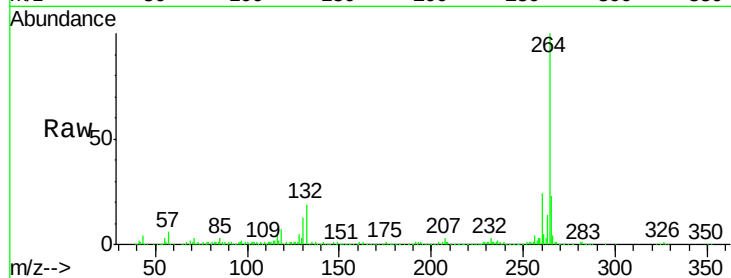




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.40 min Scan# 1165
Delta R.T. -0.05 min
Lab File: BF093272.D
Acq: 1 Mar 2017 4:34

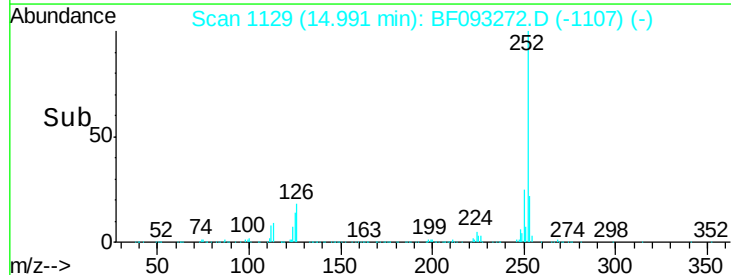
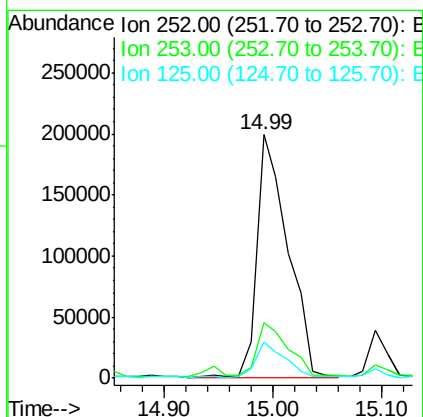
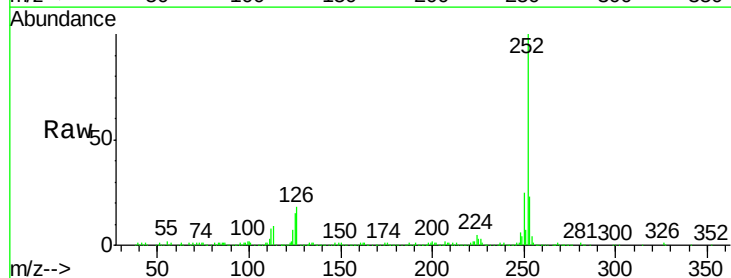
Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3DL

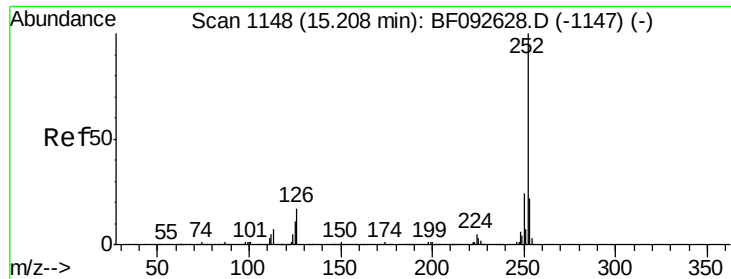
Tgt Ion:264 Resp: 210608
Ion Ratio Lower Upper
264 100
260 23.8 19.2 28.8
265 22.8 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 28.34 ng
RT: 14.99 min Scan# 1129
Delta R.T. -0.05 min
Lab File: BF093272.D
Acq: 1 Mar 2017 4:34

Tgt Ion:252 Resp: 392904
Ion Ratio Lower Upper
252 100
253 22.6 18.2 27.4
125 14.7 9.8 14.6#

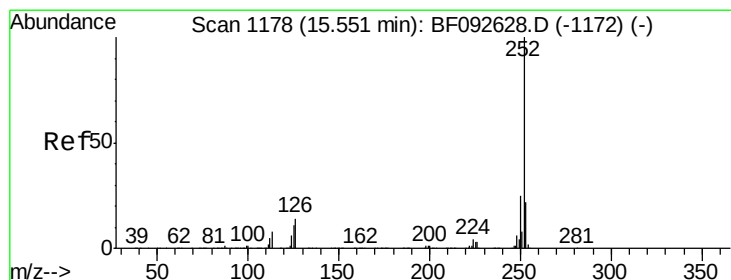
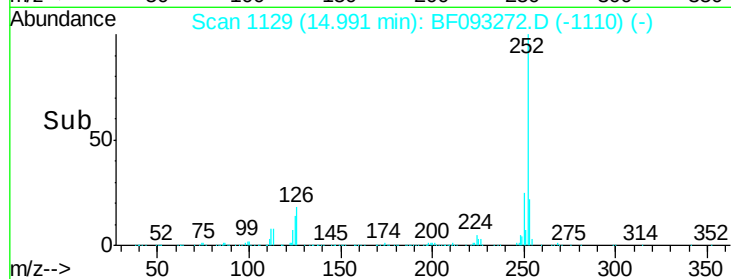
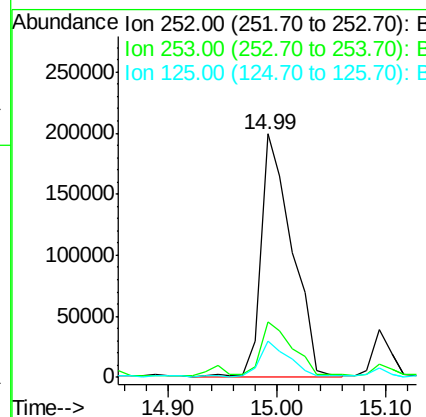
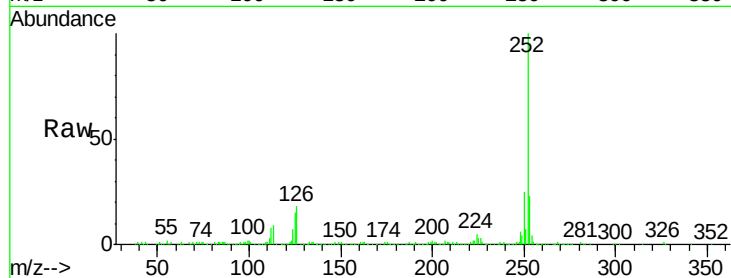




#88
Benzo(k)fluoranthene
Concen: 32.83 ng
RT: 14.99 min Scan# 1129
Delta R.T. -0.08 min
Lab File: BF093272.D
Acq: 1 Mar 2017 4:34

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3DL

Tgt Ion:252 Resp: 392904
Ion Ratio Lower Upper
252 100
253 22.6 18.5 27.7
125 14.7 8.9 13.3#



#89
Benzo(a)pyrene
Concen: 18.07 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.05 min
Lab File: BF093272.D
Acq: 1 Mar 2017 4:34

Tgt Ion:252 Resp: 216724
Ion Ratio Lower Upper
252 100
253 22.9 18.2 27.2
125 10.5 10.0 15.0

