

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
 Data File : BF093210.D
 Acq On : 27 Feb 2017 15:47
 Operator : SJ/MA
 Sample : I1972-02 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2B15-BASE-2

Quant Time: Feb 27 16:15:37 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	6.83	152	166567	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	614623	20.00	ng	-0.02
38) Acenaphthene-d10	9.89	164	247264	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	358524	20.00	ng	0.00
75) Chrysene-d12	14.02	240	326404	20.00	ng	0.00
86) Perylene-d12	15.45	264	272119	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	265310	27.33	ng	-0.02
7) Phenol-d6	6.48	99	334670	26.79	ng	-0.01
23) Nitrobenzene-d5	7.40	82	187895	17.02	ng	-0.02
41) 2,4,6-Tribromophenol	10.68	330	40489	22.64	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	315642	23.13	ng	-0.01
78) Terphenyl-d14	12.96	244	174611	12.57	ng	-0.01

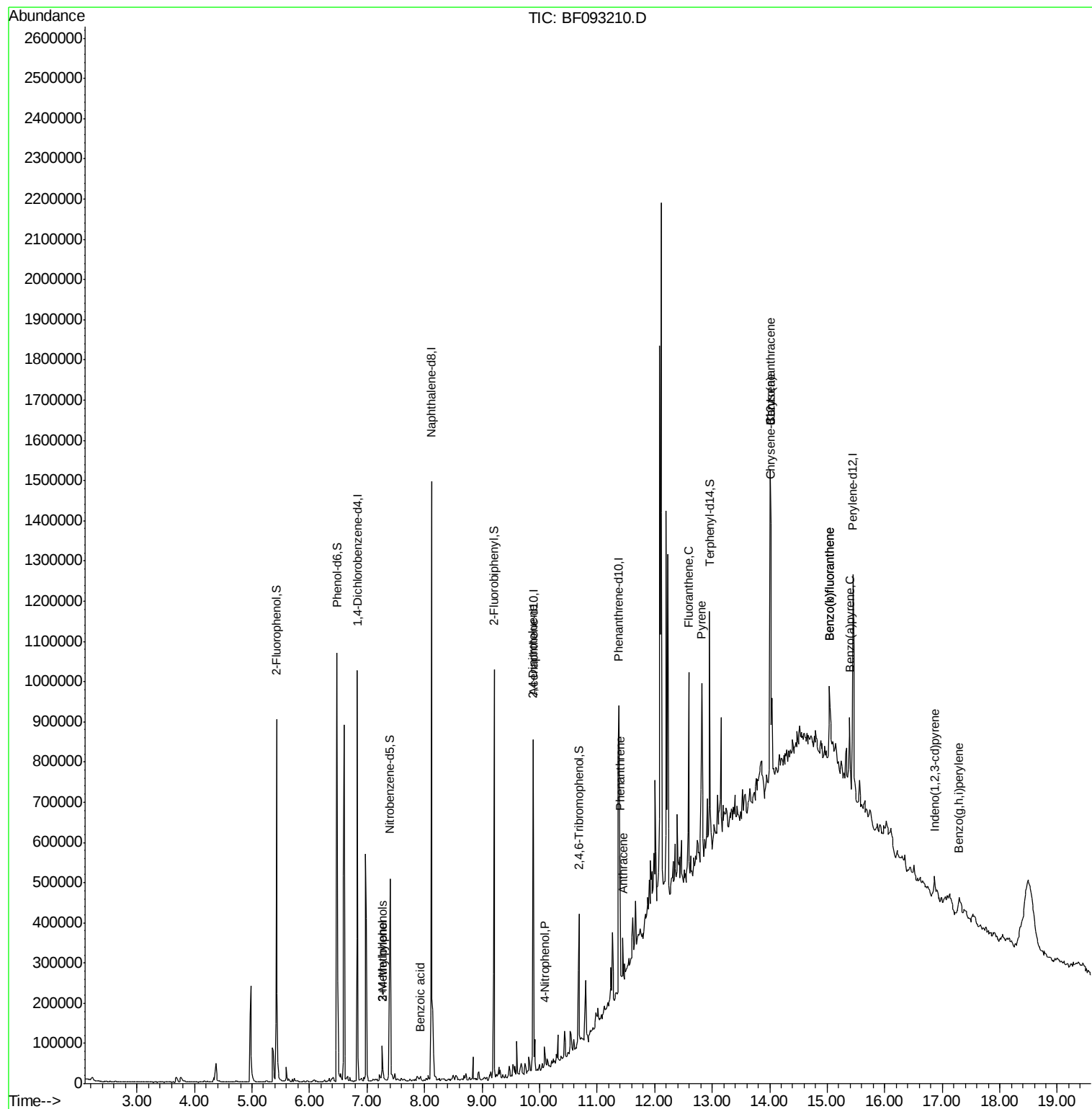
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
17) 2-Methylphenol	7.26	107	29245	3.18	ng	# 65
20) 3+4-Methylphenols	7.26	107	30099	2.74	ng	# 63
32) Benzoic acid	7.93	122	1015	7.33	ng	# 31
55) 4-Nitrophenol	10.09	139	8025	2.71	ng	# 18
56) 2,4-Dinitrotoluene	9.88	165	33817	7.06	ng	# 21
70) Phenanthrene	11.40	178	167040	8.13	ng	97
71) Anthracene	11.45	178	42995	2.08	ng	99
74) Fluoranthene	12.59	202	203173	9.59	ng	96
77) Pyrene	12.82	202	181722	7.44	ng	99
80) Benzo(a)anthracene	14.01	228	100173	5.02	ng	95
82) Chrysene	14.01	228	100173	5.36	ng	97
85) Indeno(1,2,3-cd)pyrene	16.87	276	32567	2.25	ng	96
87) Benzo(b)fluoranthene	15.04	252	136884	7.64	ng	# 89
88) Benzo(k)fluoranthene	15.04	252	136884	8.85	ng	# 89
89) Benzo(a)pyrene	15.39	252	68555	4.42	ng	# 91
91) Benzo(g,h,i)perylene	17.29	276	34447	2.72	ng	# 85

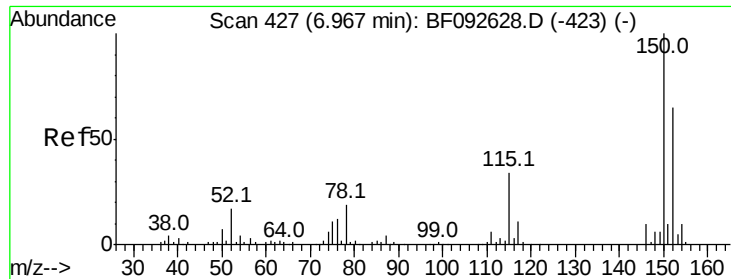
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 415

Delta R.T. -0.02 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-2

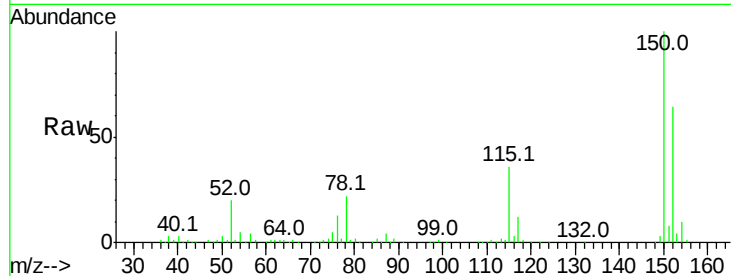
Tot Ion:152 Resp: 166567

Ion Ratio Lower Upper

152 100

150 155.2 124.9 187.3

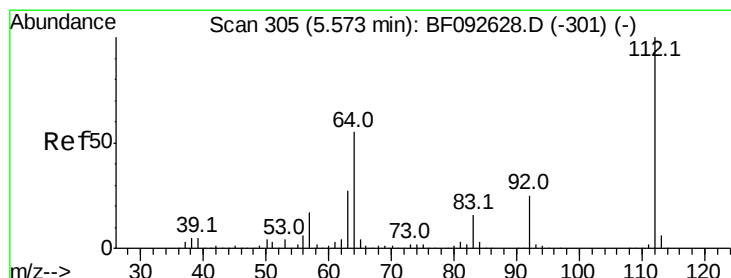
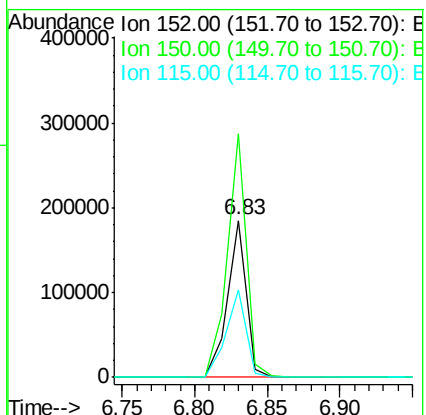
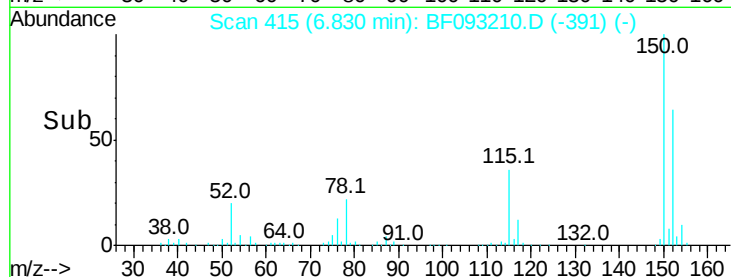
115 55.7 46.0 69.0



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: 27.33 ng

RT: 5.42 min Scan# 292

Delta R.T. -0.02 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

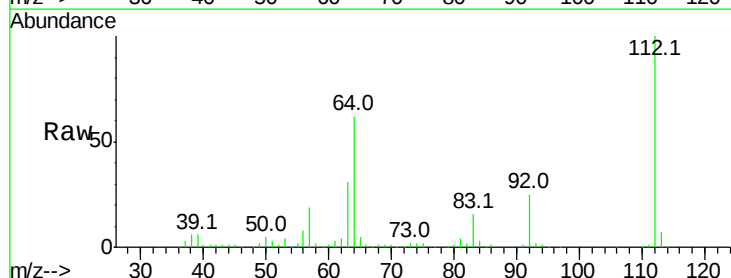
Tgt Ion:112 Resp: 265310

Ion Ratio Lower Upper

112 100

64 61.9 46.1 69.1

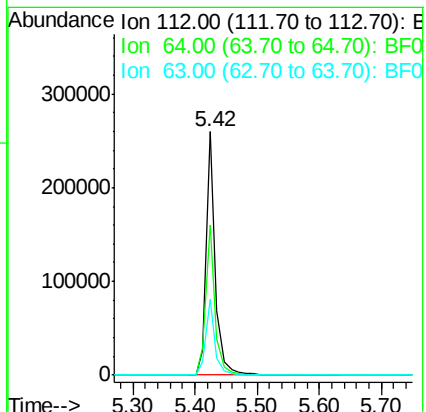
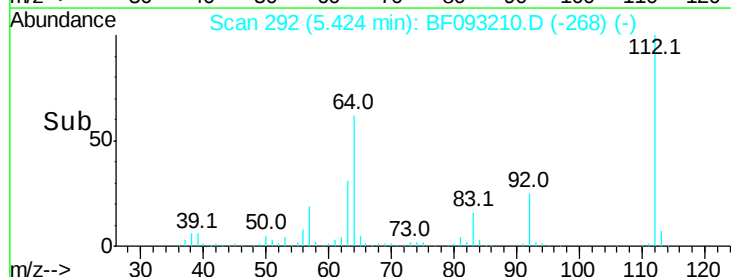
63 31.0 23.8 35.6



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: 26.79 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-2

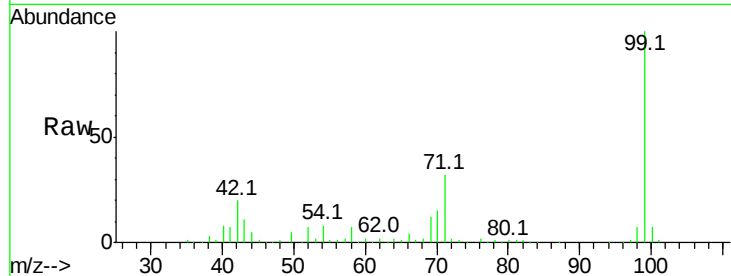
Tot Ion: 99 Resp: 334670

Ion Ratio Lower Upper

99 100

42 19.9 15.6 23.4

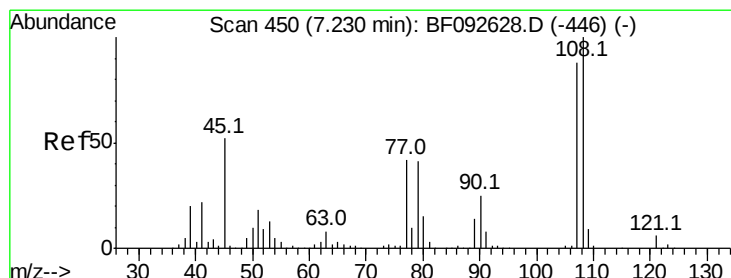
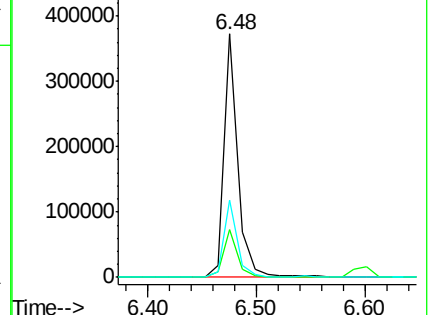
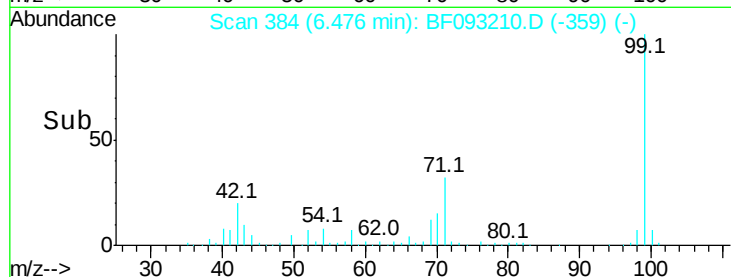
71 31.6 27.5 41.3



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



#17

2-Methylphenol

Concen: 3.18 ng

RT: 7.26 min Scan# 453

Delta R.T. 0.15 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

Tgt Ion: 107 Resp: 29245

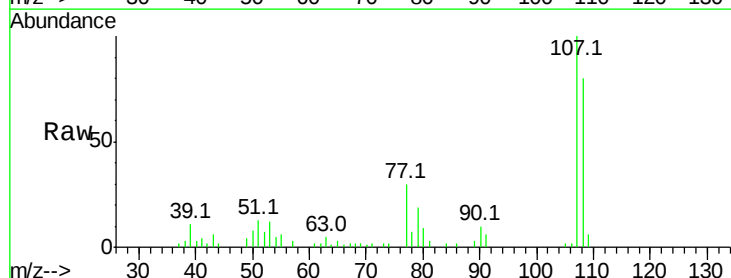
Ion Ratio Lower Upper

107 100

108 79.5 93.0 139.6#

77 29.6 39.8 59.8#

79 19.2 38.0 57.0#

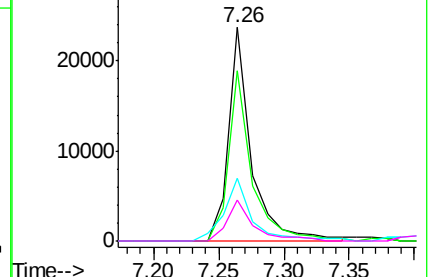
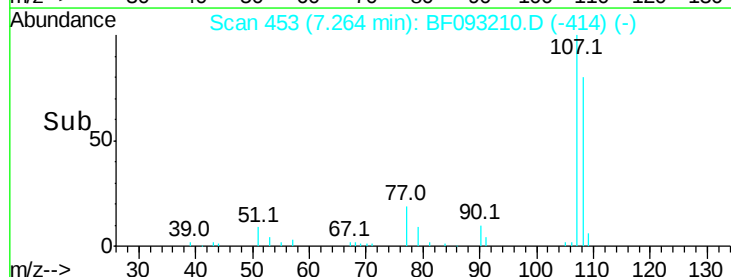


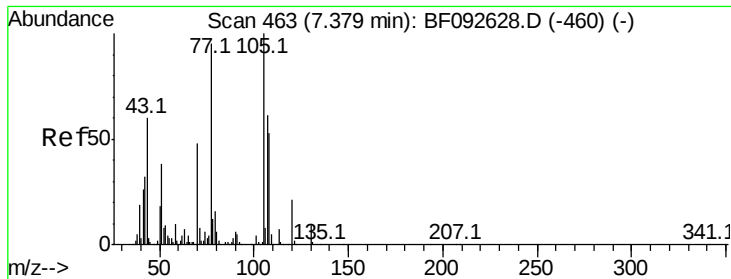
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#20

3+4-Methylphenols

Concen: 2.74 ng

RT: 7.26 min Scan# 453

Delta R.T. -0.01 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-2

Tot Ion:107 Resp: 30099

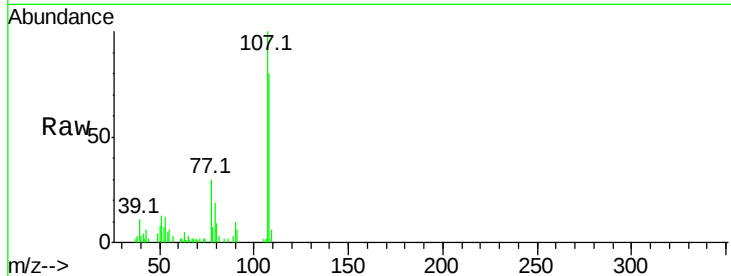
Ion Ratio Lower Upper

107 100

108 79.5 73.0 113.0

77 29.6 71.3 111.3#

79 19.2 11.1 51.1

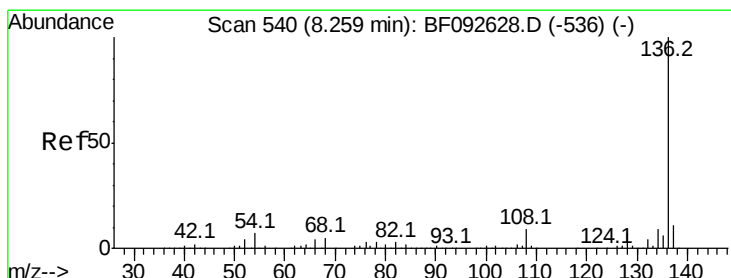
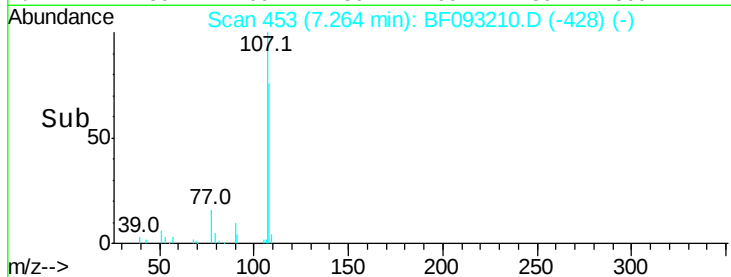
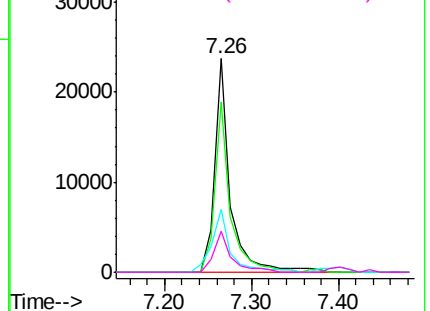


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 528

Delta R.T. -0.02 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

Tgt Ion:136 Resp: 614623

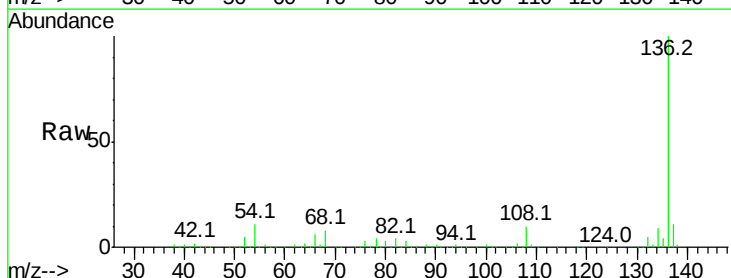
Ion Ratio Lower Upper

136 100

137 11.3 8.4 12.6

54 10.6 4.5 6.7#

68 7.7 3.6 5.4#

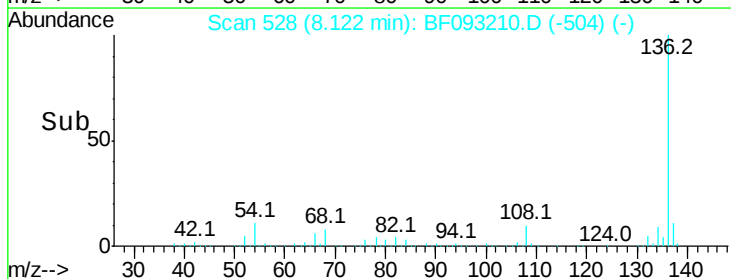
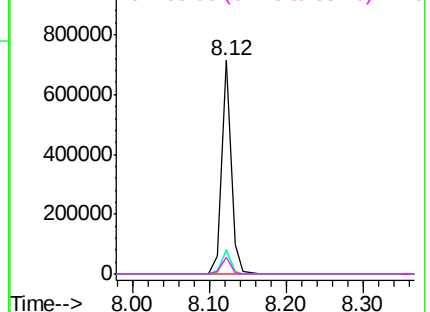


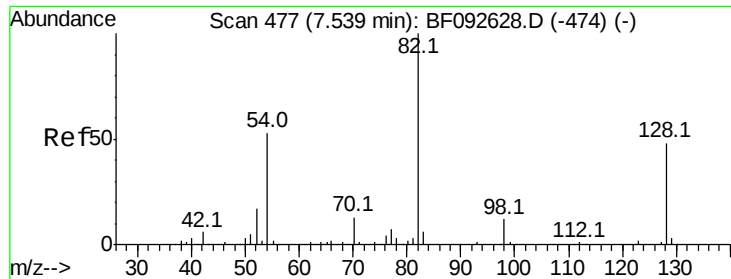
Abundance Ion 136.00 (135.70 to 136.70): E

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

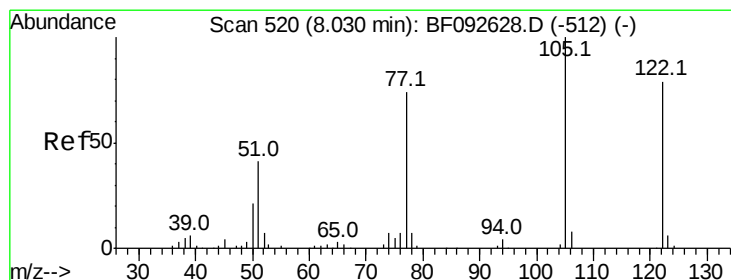
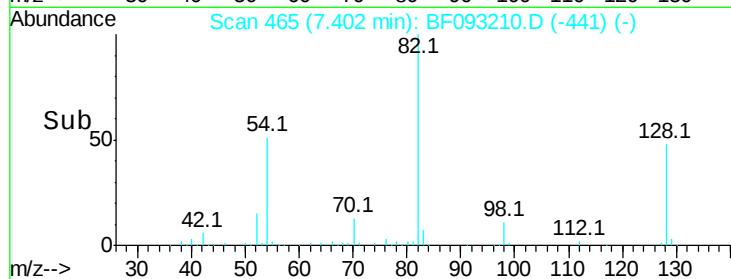
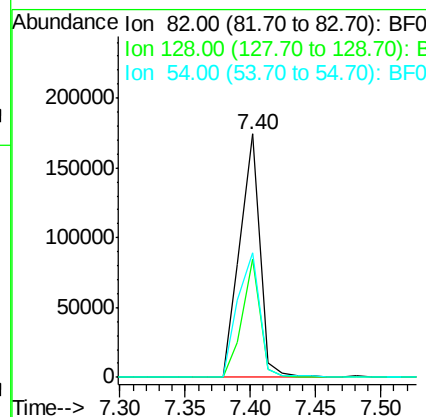
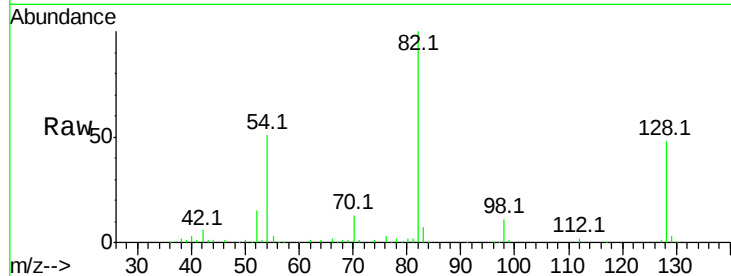




#23
 Nitrobenzene-d5
 Concen: 17.02 ng
 RT: 7.40 min Scan# 465
 Delta R.T. -0.02 min
 Lab File: BF093210.D
 Acq: 27 Feb 2017 15:47

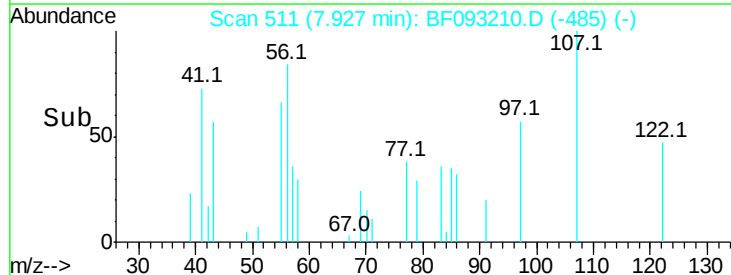
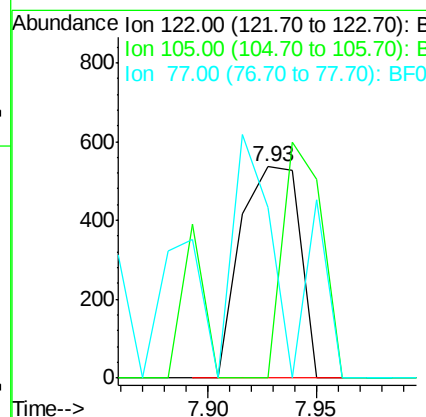
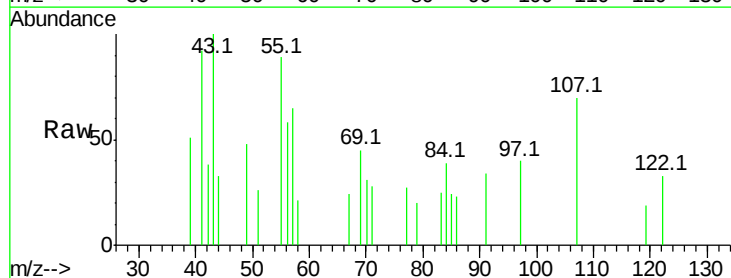
Instrument :
 BNA_F
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 E2B15-BASE-2

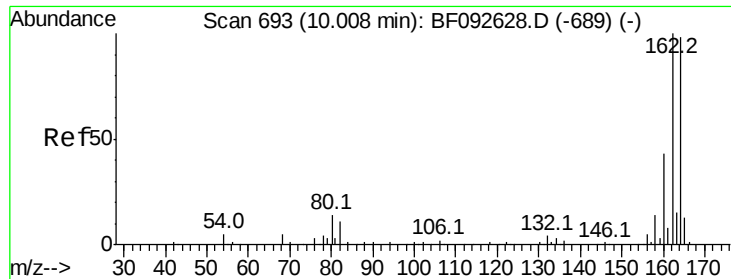
Tot Ion	82	Resp	187895
Ion Ratio	100		
Lower	34.6		
Upper	52.0		
54	51.2		59.3



#32
 Benzoic acid
 Concen: 7.33 ng
 RT: 7.93 min Scan# 511
 Delta R.T. -0.00 min
 Lab File: BF093210.D
 Acq: 27 Feb 2017 15:47

Tgt Ion	122	Resp	1015
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower <td>107.2</td> <td></td> <td></td>	107.2		
Upper <td>147.2#</td> <td></td> <td></td>	147.2#		
105	0.0		114.5
77	81.0		114.5

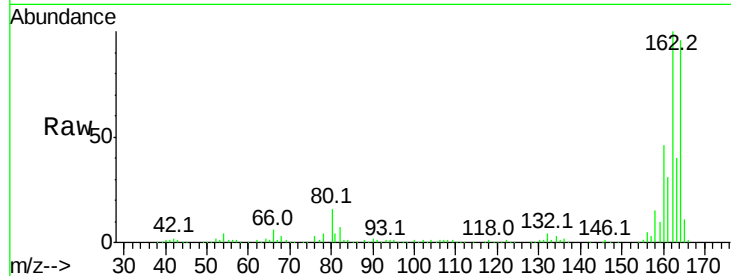




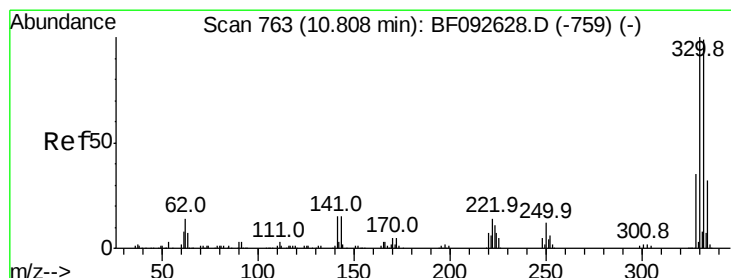
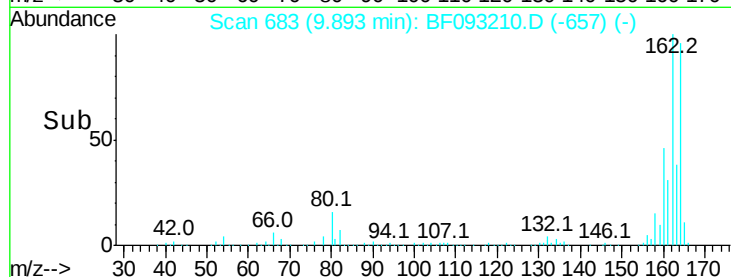
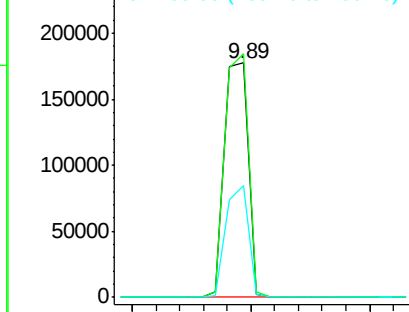
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.89 min Scan# 683
 Delta R.T. -0.00 min
 Lab File: BF093210.D
 Acq: 27 Feb 2017 15:47

Instrument :
 BNA_F
 ClientSampleId :
 E2B15-BASE-2

Tot Ion:164 Resp: 247264
 Ion Ratio Lower Upper
 164 100
 162 103.8 80.2 120.2
 160 47.7 36.9 55.3

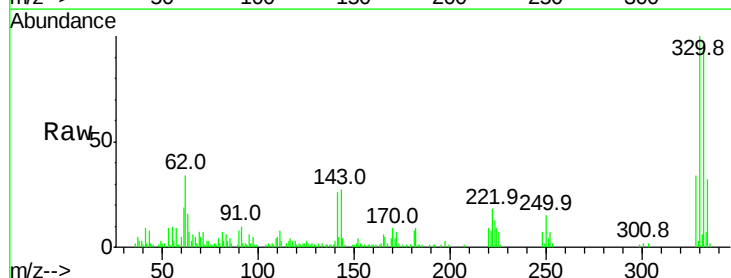


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

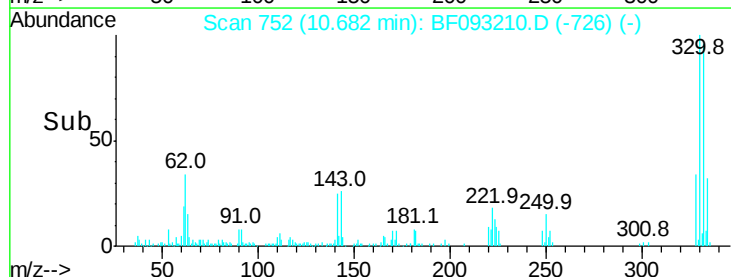
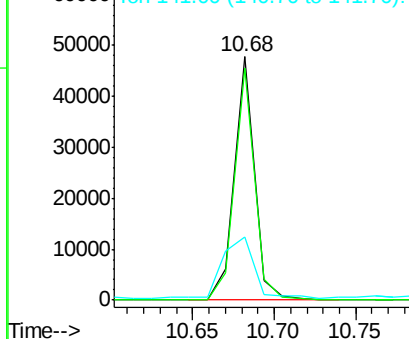


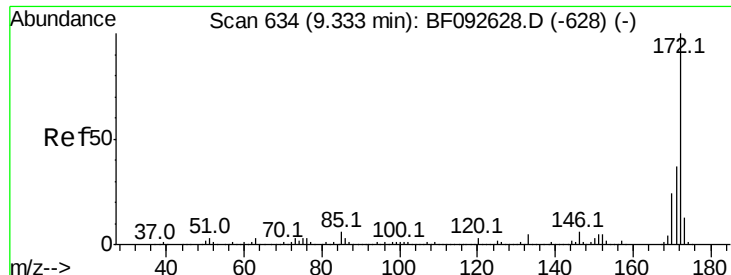
#41
 2,4,6-Tribromophenol
 Concen: 22.64 ng
 RT: 10.68 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: BF093210.D
 Acq: 27 Feb 2017 15:47

Tgt Ion:330 Resp: 40489
 Ion Ratio Lower Upper
 330 100
 332 95.5 77.4 116.2
 141 40.8 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

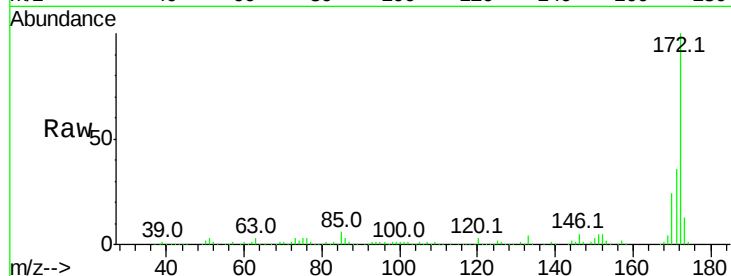




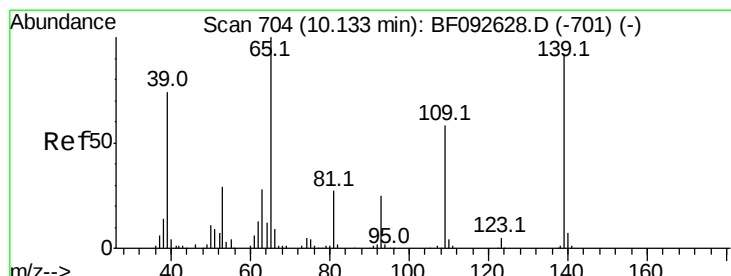
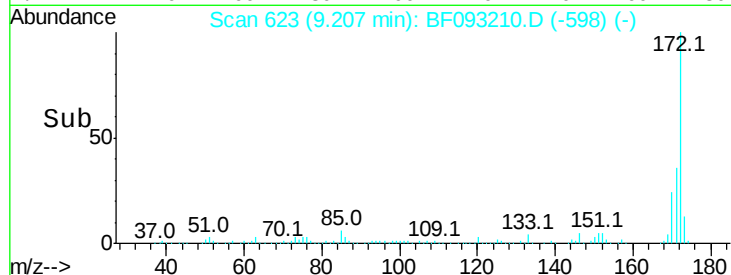
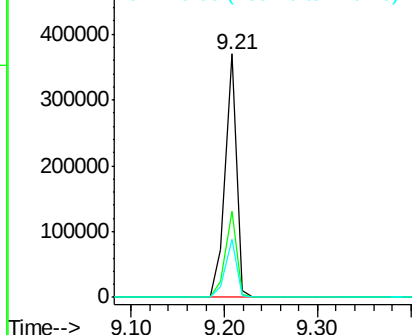
#44
 2-Fluorobiphenyl
 Concen: 23.13 ng
 RT: 9.21 min Scan# 623
 Delta R.T. -0.01 min
 Lab File: BF093210.D
 Acq: 27 Feb 2017 15:47

Instrument :
 BNA_F
 ClientSampleId :
 E2B15-BASE-2

Tot Ion:172 Resp: 315642
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.4 44.0
 170 23.9 20.2 30.4

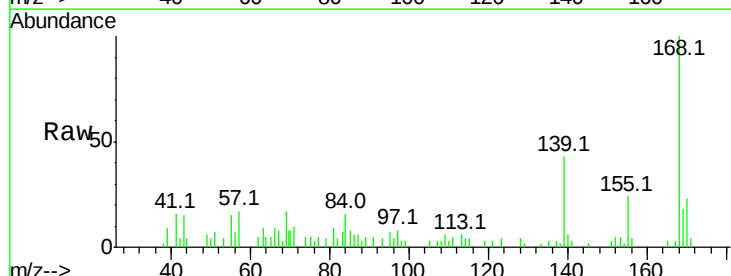


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

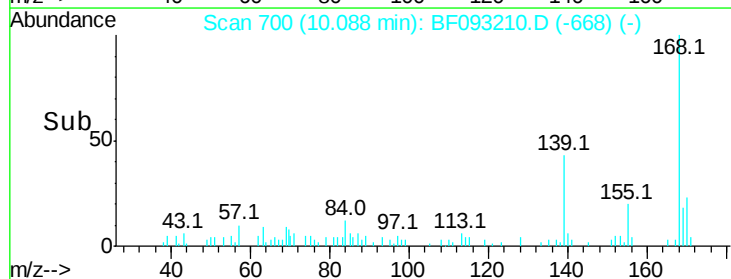
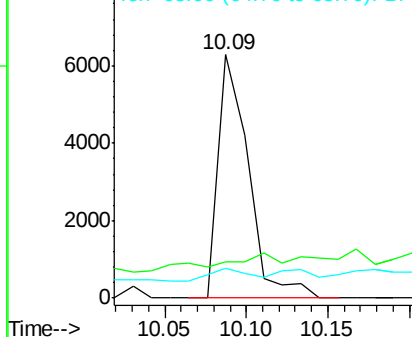


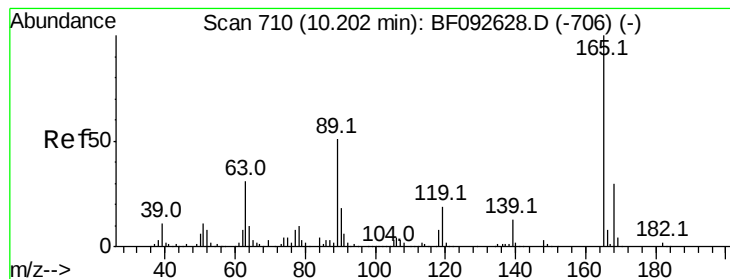
#55
 4-Nitrophenol
 Concen: 2.71 ng
 RT: 10.09 min Scan# 700
 Delta R.T. 0.07 min
 Lab File: BF093210.D
 Acq: 27 Feb 2017 15:47

Tgt Ion:139 Resp: 8025
 Ion Ratio Lower Upper
 139 100
 109 14.7 52.2 92.2#
 65 12.3 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





#56

2,4-Dinitrotoluene

Concen: 7.06 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.21 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-2

Tot Ion:165 Resp: 33817

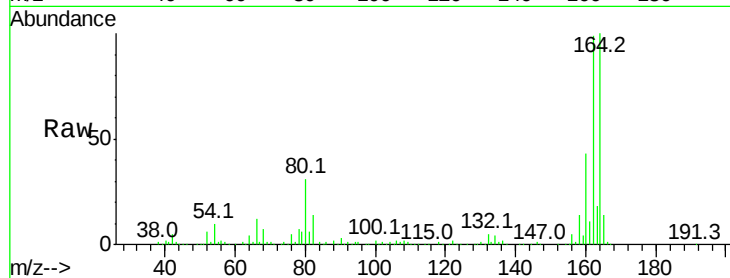
Ion Ratio Lower Upper

165 100

63 1.5 40.2 60.4#

89 2.2 62.5 93.7#

182 0.0 1.8 2.8#

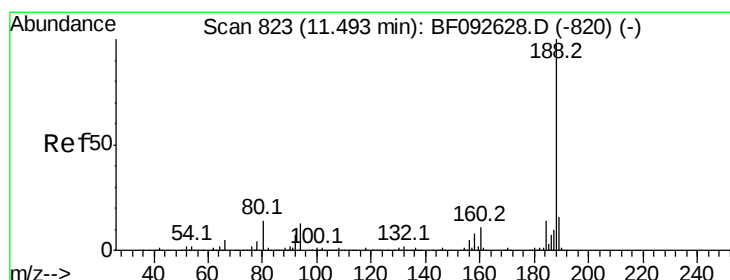
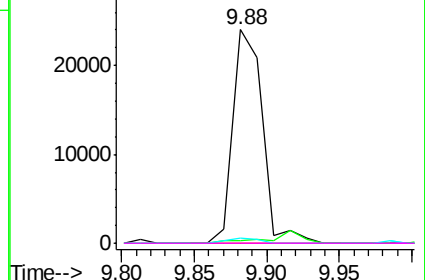
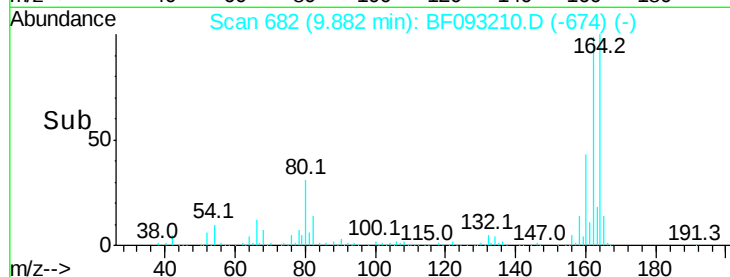


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.38 min Scan# 813

Delta R.T. -0.00 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

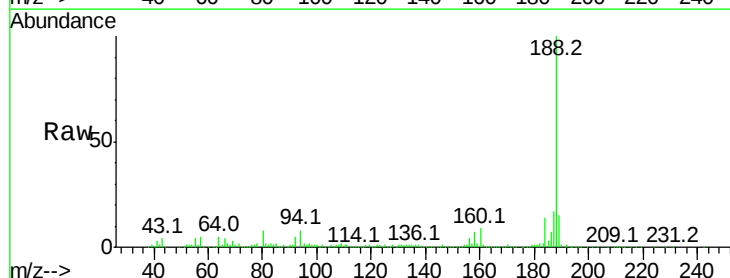
Tgt Ion:188 Resp: 358524

Ion Ratio Lower Upper

188 100

94 7.6 10.0 15.0#

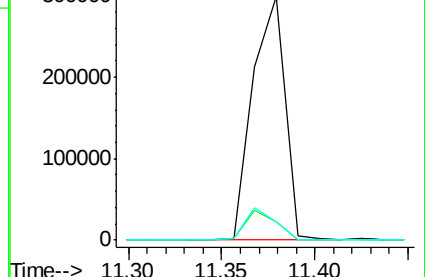
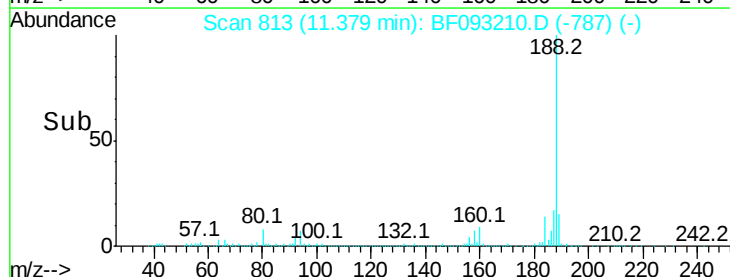
80 7.7 11.2 16.8#

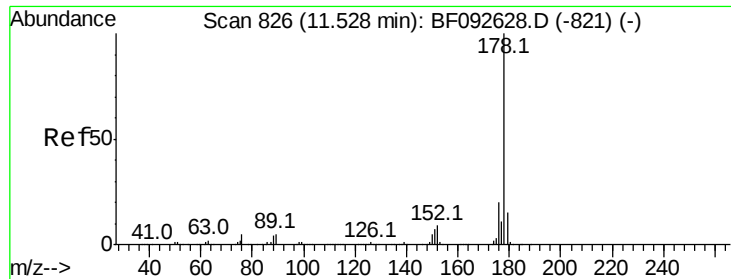


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

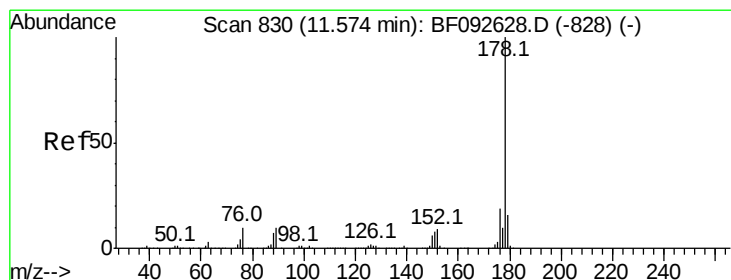
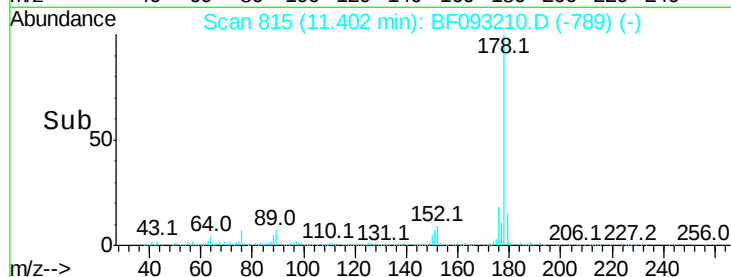
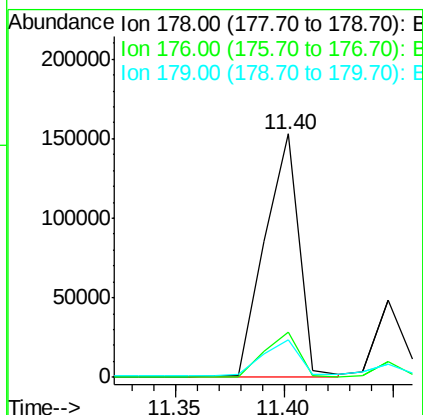
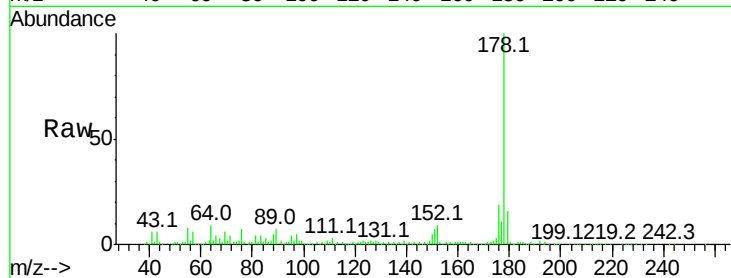




#70
Phenanthrene
Concen: 8.13 ng
RT: 11.40 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF093210.D
Acq: 27 Feb 2017 15:47

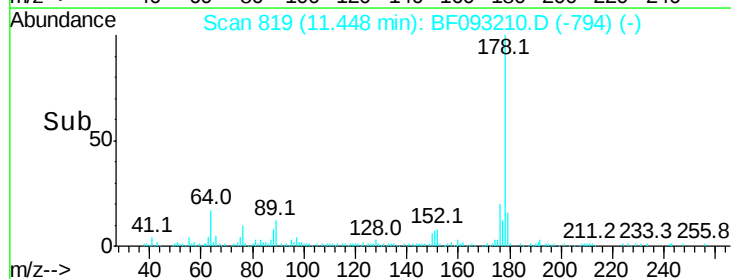
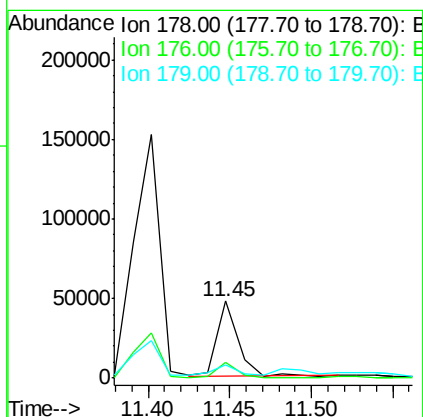
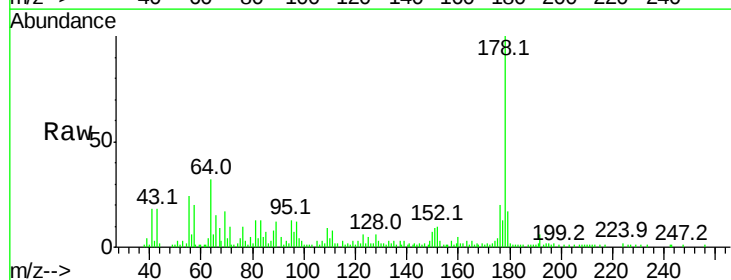
Instrument :
BNA_F
ClientSampleId :
E2B15-BASE-2

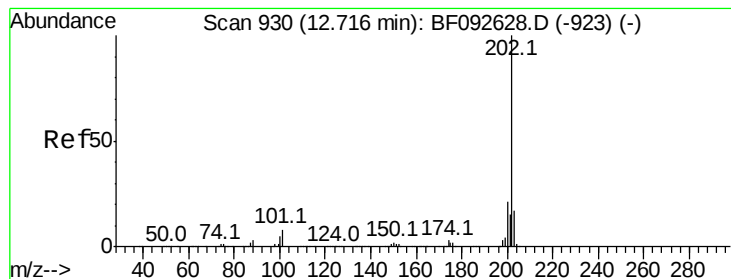
Tot Ion:178 Resp: 167040
Ion Ratio Lower Upper
178 100
176 18.5 16.6 25.0
179 15.5 12.8 19.2



#71
Anthracene
Concen: 2.08 ng
RT: 11.45 min Scan# 819
Delta R.T. -0.01 min
Lab File: BF093210.D
Acq: 27 Feb 2017 15:47

Tgt Ion:178 Resp: 42995
Ion Ratio Lower Upper
178 100
176 20.3 15.9 23.9
179 17.3 13.2 19.8





#74

Fluoranthene

Concen: 9.59 ng

RT: 12.59 min Scan# 919

Delta R.T. -0.00 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-2

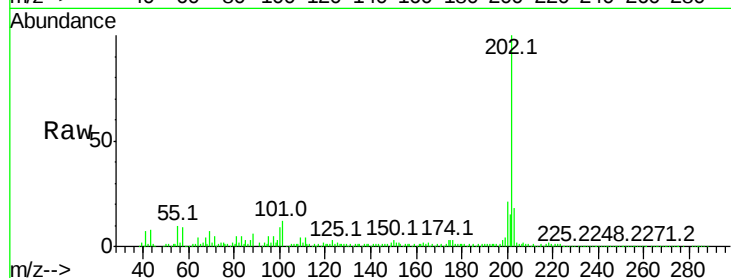
Tot Ion:202 Resp: 203173

Ion Ratio Lower Upper

202 100

101 11.6 0.0 34.6

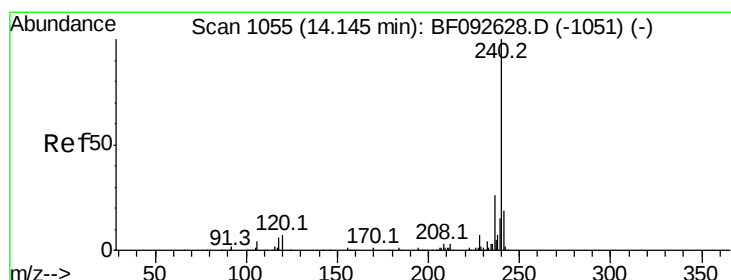
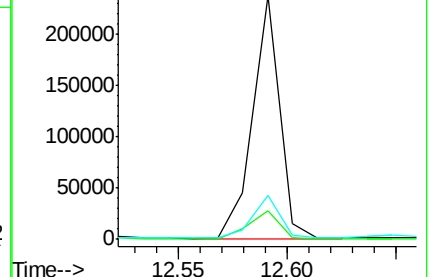
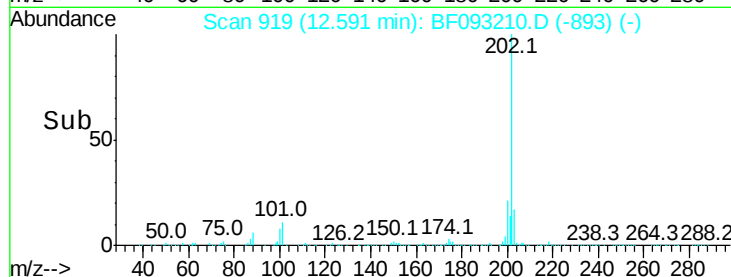
203 17.9 0.0 38.7



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: 14.02 min Scan# 1044

Delta R.T. -0.00 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

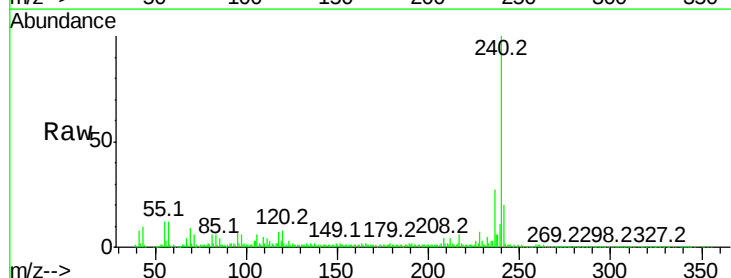
Tgt Ion:240 Resp: 326404

Ion Ratio Lower Upper

240 100

120 8.4 12.9 19.3#

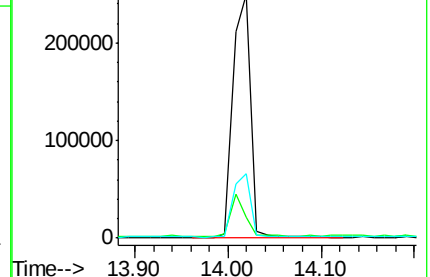
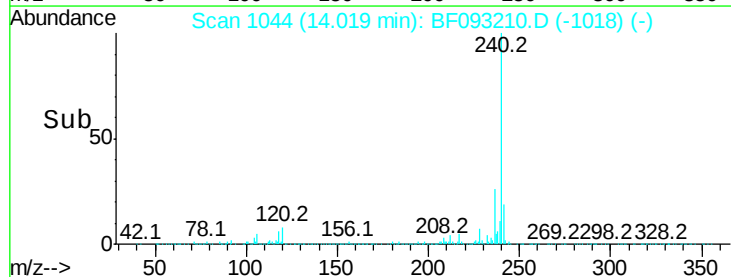
236 26.5 20.9 31.3

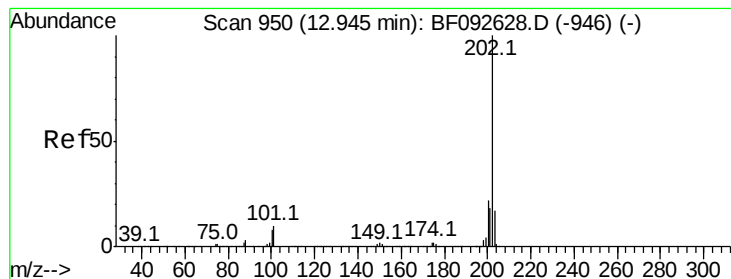


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 7.44 ng

RT: 12.82 min Scan# 939

Delta R.T. -0.00 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-2

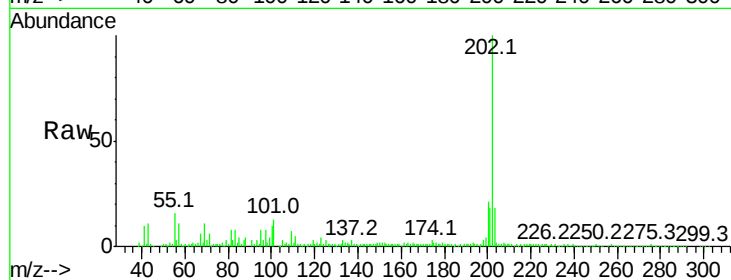
Tot Ion:202 Resp: 181722

Ion Ratio Lower Upper

202 100

200 21.3 17.7 26.5

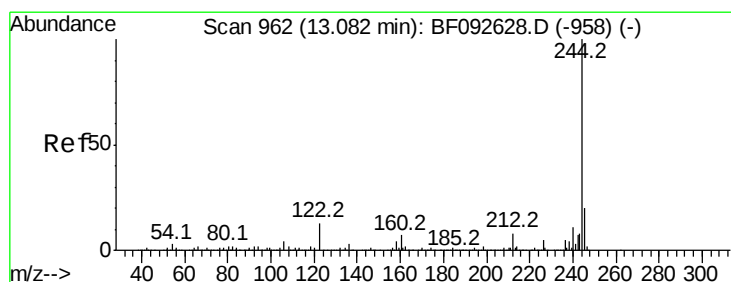
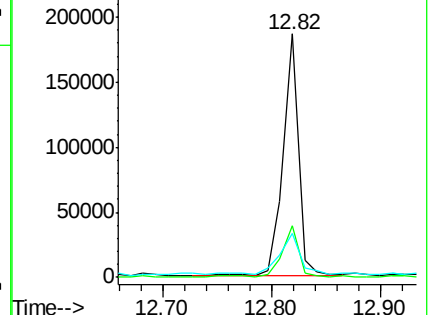
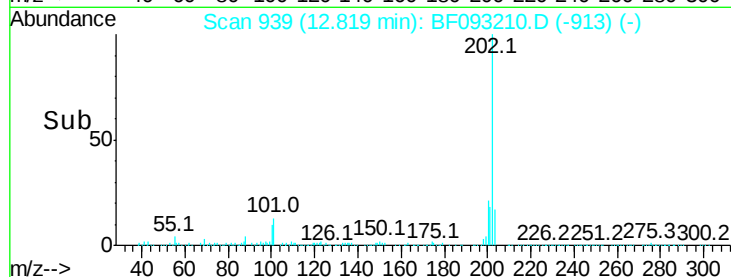
203 18.1 14.7 22.1



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: 12.57 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

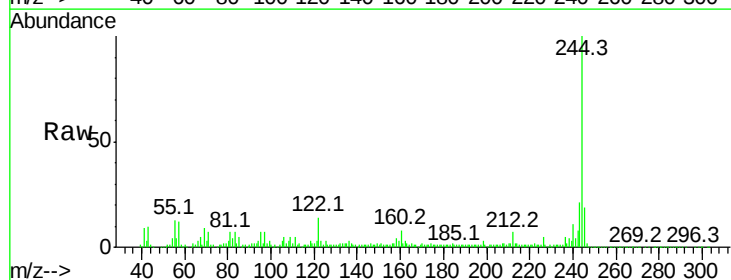
Tgt Ion:244 Resp: 174611

Ion Ratio Lower Upper

244 100

212 7.2 6.2 9.2

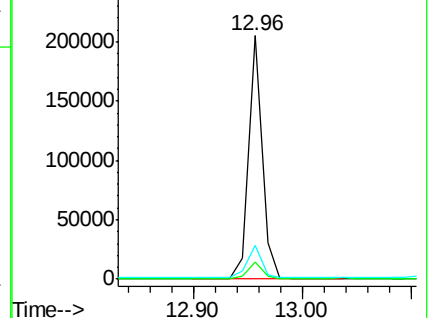
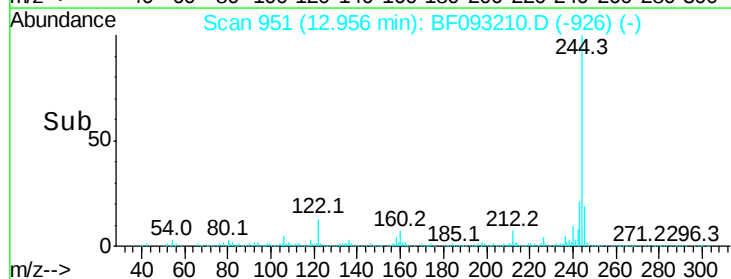
122 13.6 11.4 17.2

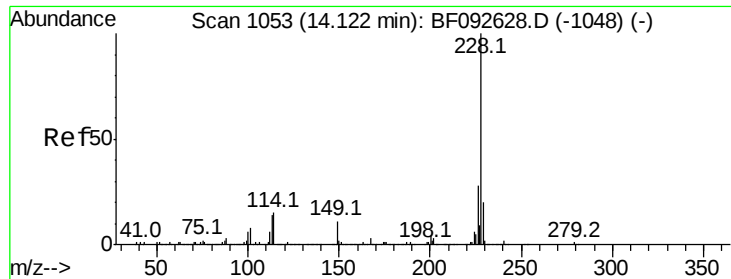


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 5.02 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.00 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-2

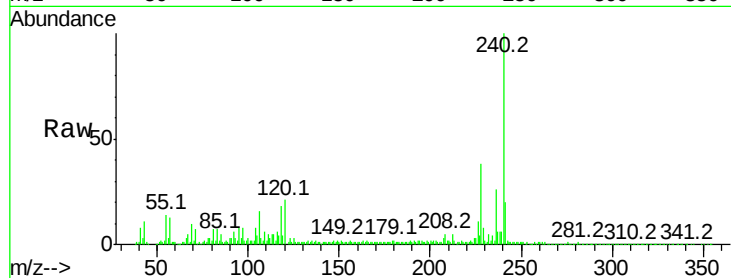
Tot Ion:228 Resp: 100173

Ion Ratio Lower Upper

228 100

226 30.4 22.4 33.6

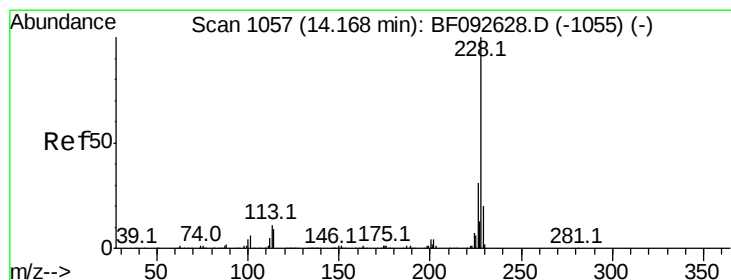
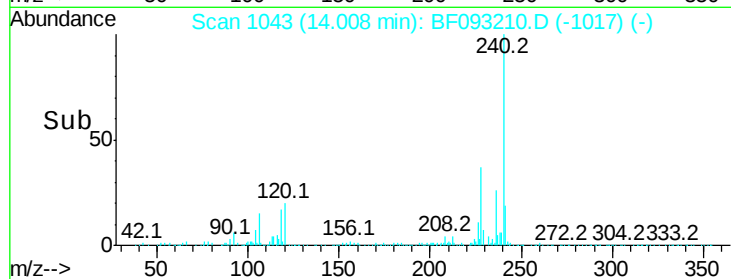
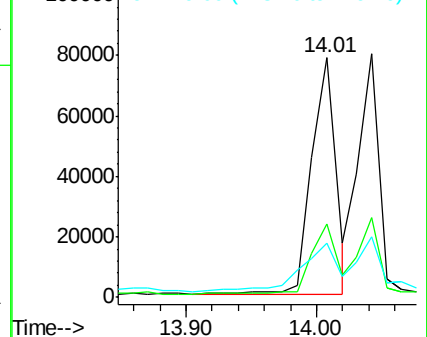
229 22.6 16.2 24.4



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: 5.36 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.03 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

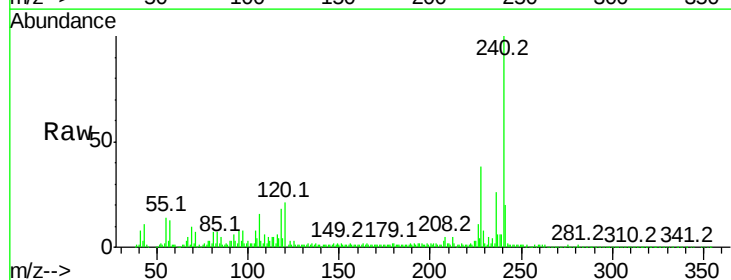
Tgt Ion:228 Resp: 100173

Ion Ratio Lower Upper

228 100

226 30.4 25.4 38.0

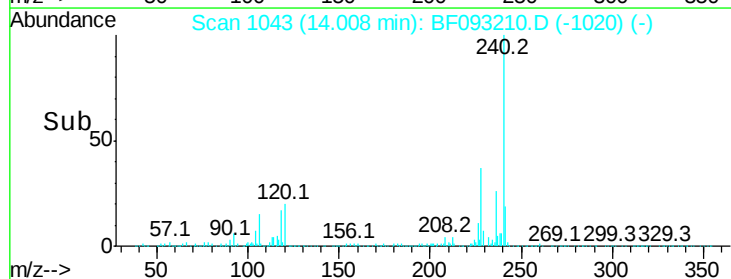
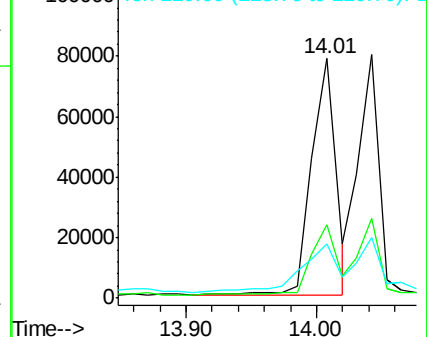
229 22.6 16.2 24.2

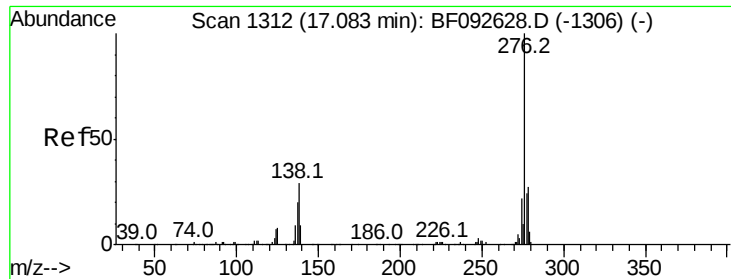


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

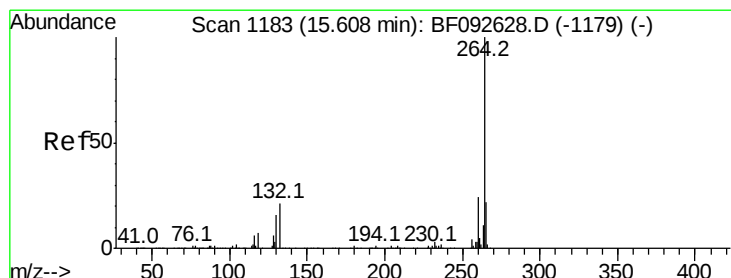
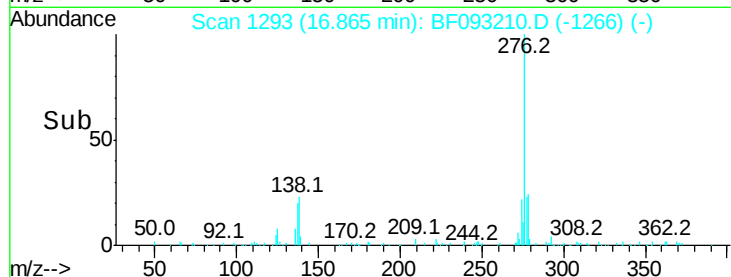
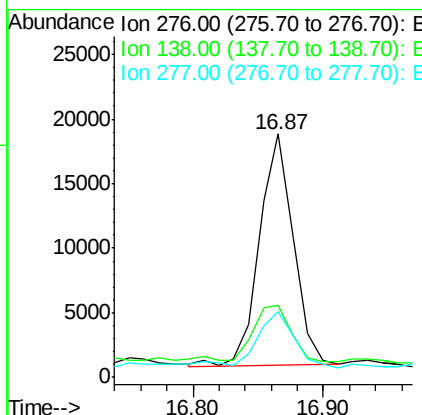
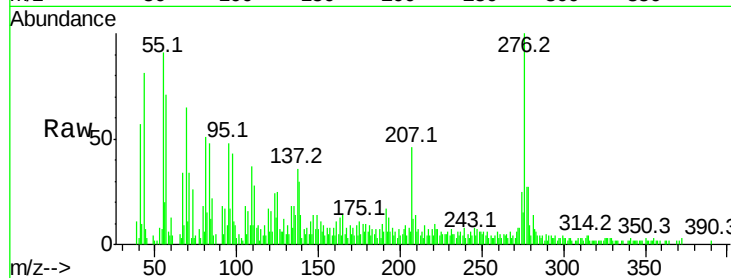




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.25 ng
 RT: 16.87 min Scan# 1293
 Delta R.T. 0.01 min
 Lab File: BF093210.D
 Acq: 27 Feb 2017 15:47

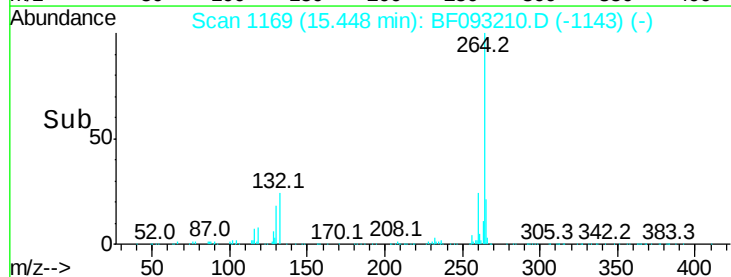
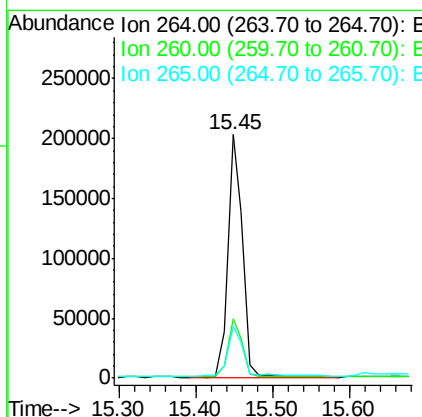
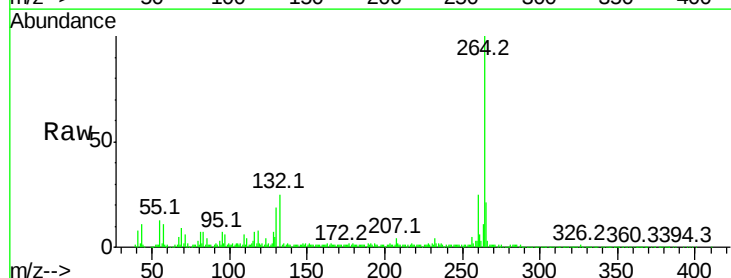
Instrument :
 BNA_F
 ClientSampleId :
 E2B15-BASE-2

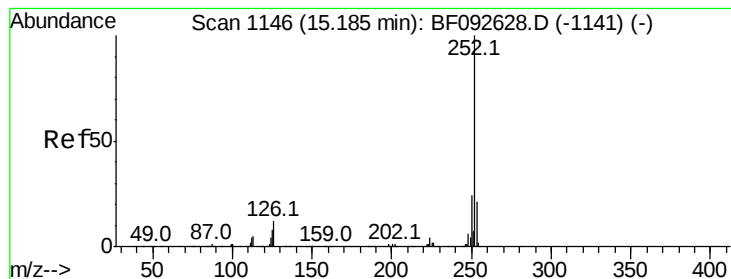
Tot Ion:276 Resp: 32567
 Ion Ratio Lower Upper
 276 100
 138 26.6 21.8 32.6
 277 29.0 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.45 min Scan# 1169
 Delta R.T. -0.00 min
 Lab File: BF093210.D
 Acq: 27 Feb 2017 15:47

Tgt Ion:264 Resp: 272119
 Ion Ratio Lower Upper
 264 100
 260 24.6 19.2 28.8
 265 21.4 17.4 26.0





#87

Benzo(b)fluoranthene

Concen: 7.64 ng

RT: 15.04 min Scan# 1133

Delta R.T. -0.00 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

Instrument :

BNA_F

ClientSampleId :

E2B15-BASE-2

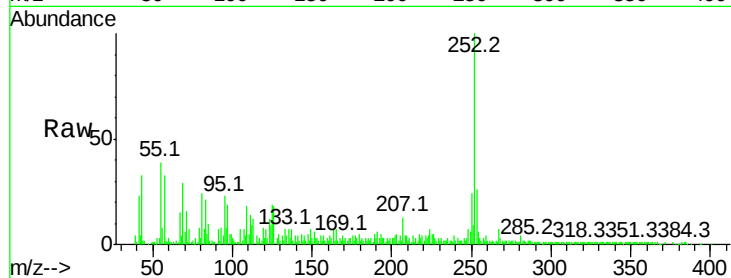
Tot Ion:252 Resp: 136884

Ion Ratio Lower Upper

252 100

253 26.4 18.2 27.4

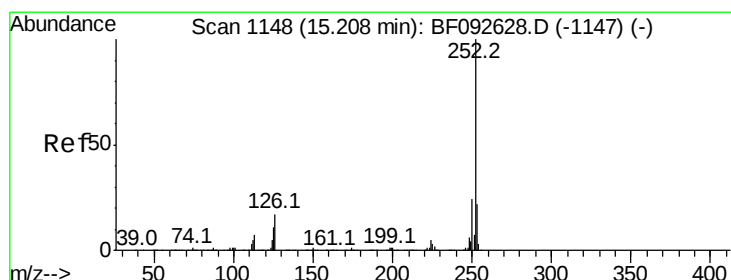
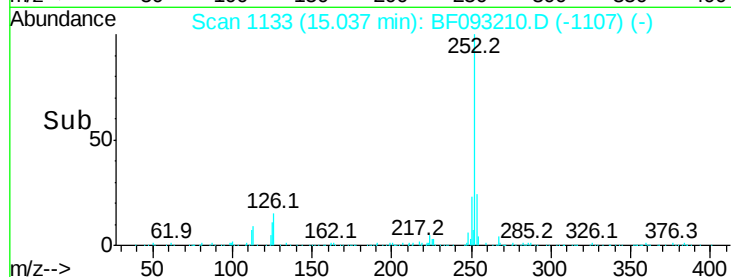
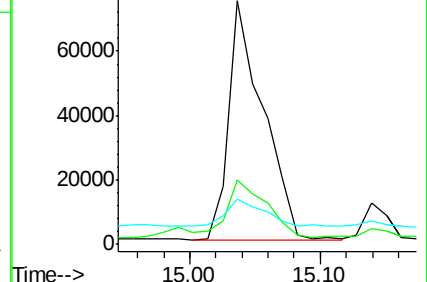
125 18.8 9.8 14.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 8.85 ng

RT: 15.04 min Scan# 1133

Delta R.T. -0.03 min

Lab File: BF093210.D

Acq: 27 Feb 2017 15:47

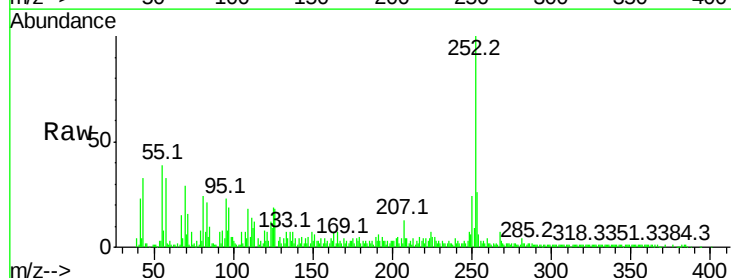
Tgt Ion:252 Resp: 136884

Ion Ratio Lower Upper

252 100

253 26.4 18.5 27.7

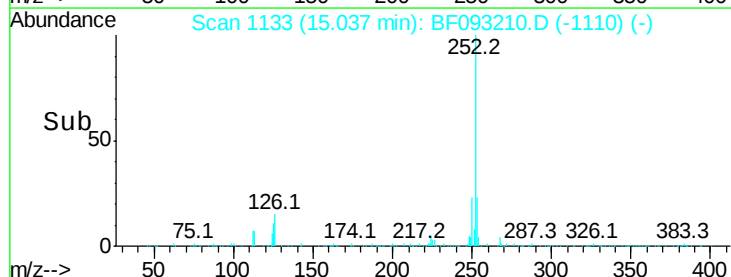
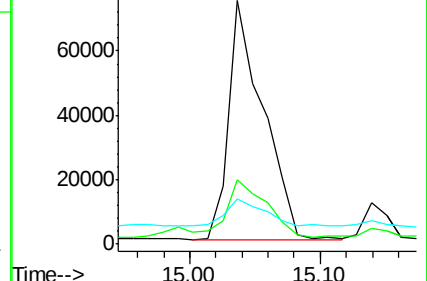
125 18.8 8.9 13.3#

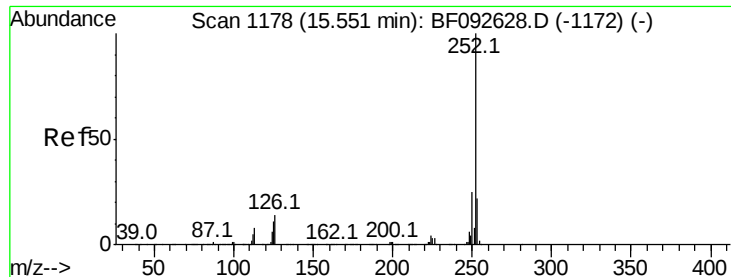


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

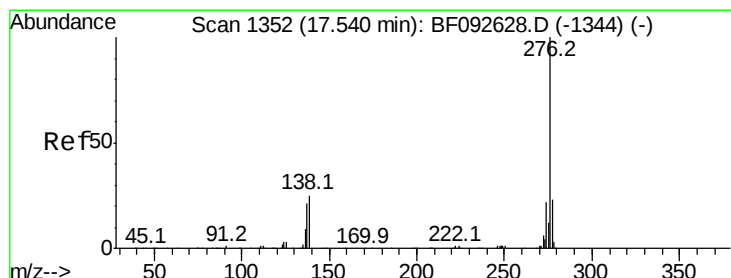
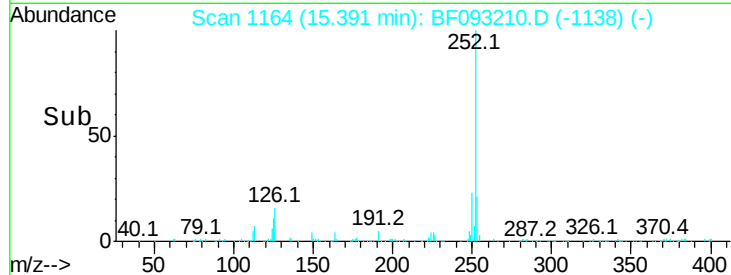
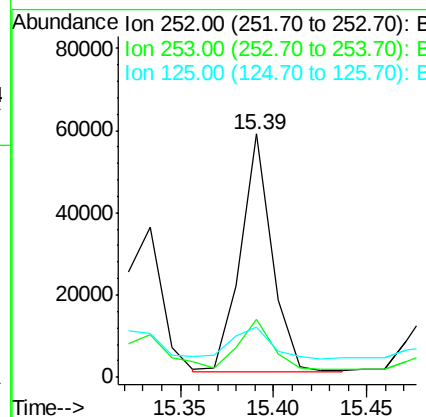
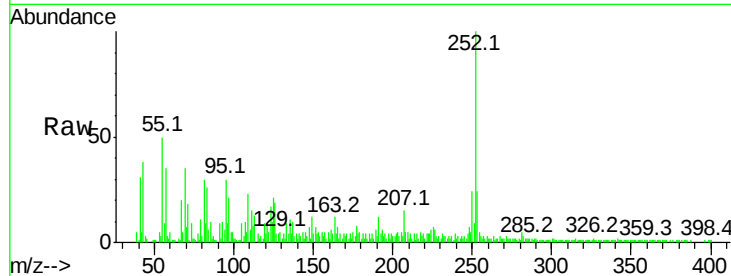




#89
Benzo(a)pyrene
Concen: 4.42 ng
RT: 15.39 min Scan# 1164
Delta R.T. -0.00 min
Lab File: BF093210.D
Acq: 27 Feb 2017 15:47

Instrument :
BNA_F
ClientSampleId :
E2B15-BASE-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.2
125	20.9	10.0	15.0#



#91
Benzo(g,h,i)perylene
Concen: 2.72 ng
RT: 17.29 min Scan# 1330
Delta R.T. -0.00 min
Lab File: BF093210.D
Acq: 27 Feb 2017 15:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.6	19.2	28.8
138	31.9	16.0	24.0#

