

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020516\
 Data File : BF084891.D
 Acq On : 6 Feb 2016 5:46
 Operator : SJ/IZ
 Sample : H1329-18 5X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S4-B004(0-2)

Quant Time: Feb 07 23:56:12 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

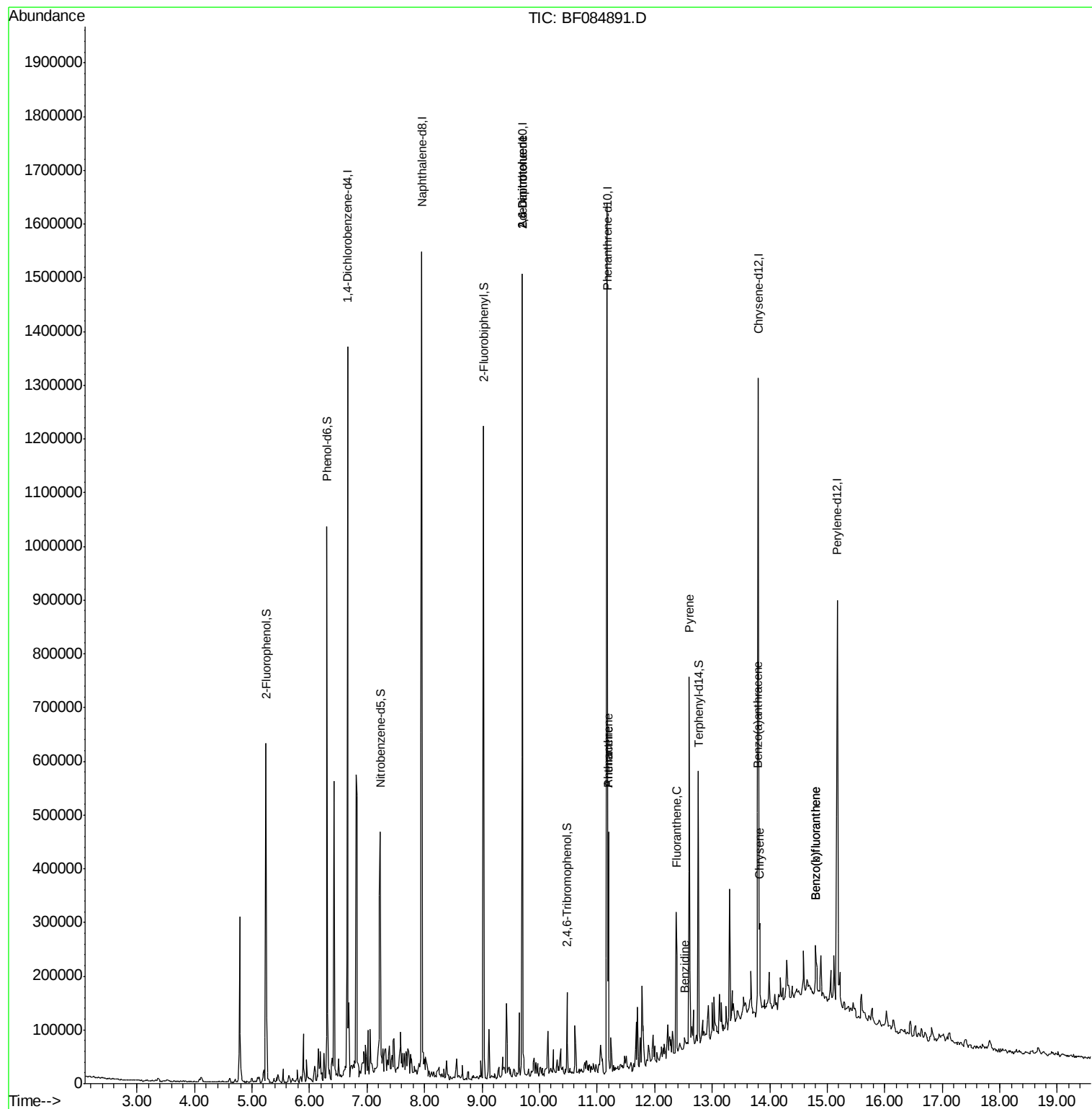
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	180359	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	731113	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	314483	20.00	ng	-0.03
63) Phenanthrene-d10	11.17	188	532875	20.00	ng	-0.03
75) Chrysene-d12	13.80	240	374516	20.00	ng	-0.03
86) Perylene-d12	15.17	264	327664	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	173120	14.95	ng	-0.03
7) Phenol-d6	6.30	99	306859	21.38	ng	-0.03
23) Nitrobenzene-d5	7.23	82	181634	13.99	ng	-0.03
41) 2,4,6-Tribromophenol	10.48	330	15858	4.83	ng	-0.05
44) 2-Fluorobiphenyl	9.02	172	337433	13.29	ng	-0.03
78) Terphenyl-d14	12.76	244	224917	13.61	ng	-0.03
Target Compounds						
50) 2,6-Dinitrotoluene	9.70	165	40548	7.75	ng	# 37
56) 2,4-Dinitrotoluene	9.70	165	40548	6.08	ng	# 21
70) Phenanthrene	11.20	178	152710	5.17	ng	99
71) Anthracene	11.20	178	152710	5.13	ng	100
74) Fluoranthene	12.37	202	126891	4.24	ng	98
76) Benzidine	12.52	184	606	6.92	ng	# 66
77) Pyrene	12.60	202	199886	6.97	ng	98
80) Benzo(a)anthracene	13.79	228	65711	2.83	ng	99
82) Chrysene	13.83	228	46693	2.07	ng	95
87) Benzo(b)fluoranthene	14.80	252	57632	2.62	ng	# 89
88) Benzo(k)fluoranthene	14.80	252	55129	3.03	ng	# 92

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 14:16:01 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

Instrument :

BNA_F

ClientSampleId :

S4-B004(0-2)

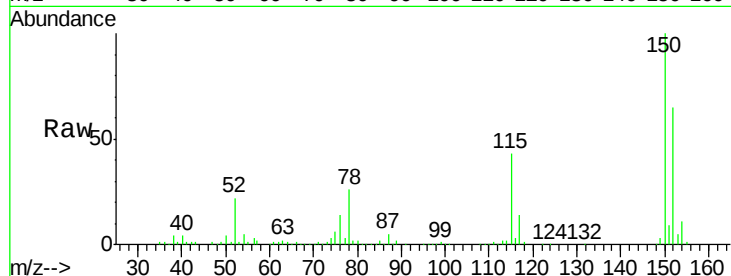
Tgt Ion:152 Resp: 180359

Ion Ratio Lower Upper

152 100

150 154.8 123.0 184.4

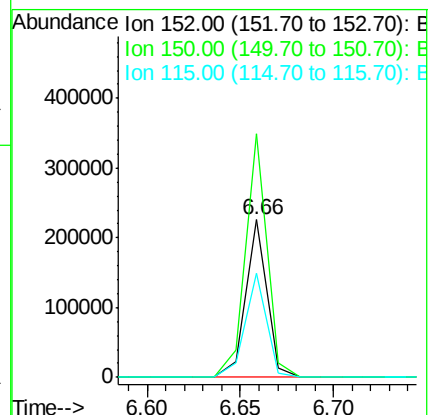
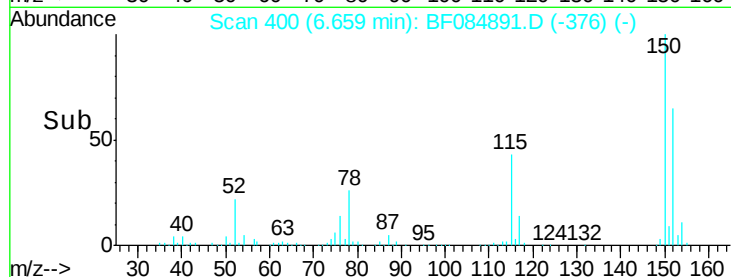
115 66.1 51.4 77.2



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: 14.95 ng

RT: 5.24 min Scan# 276

Delta R.T. -0.03 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

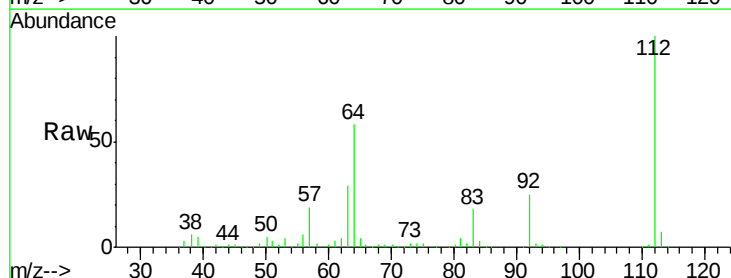
Tgt Ion:112 Resp: 173120

Ion Ratio Lower Upper

112 100

64 57.5 36.6 55.0#

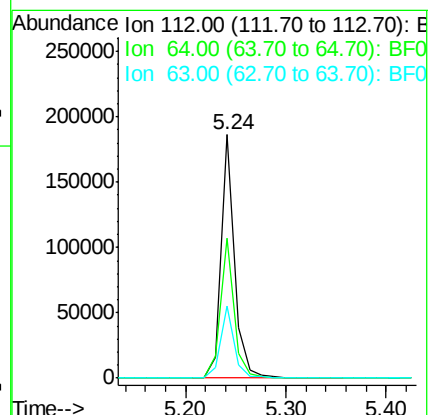
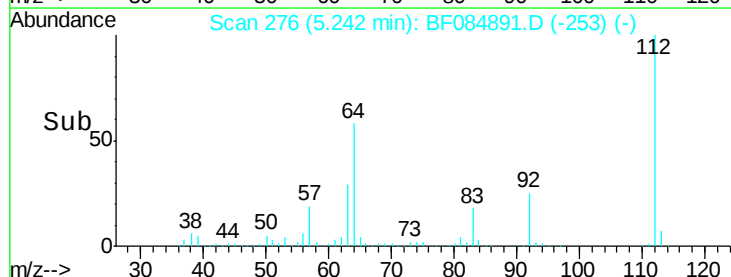
63 29.4 19.4 29.0#



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: 21.38 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.03 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

Instrument :

BNA_F

ClientSampleId :

S4-B004(0-2)

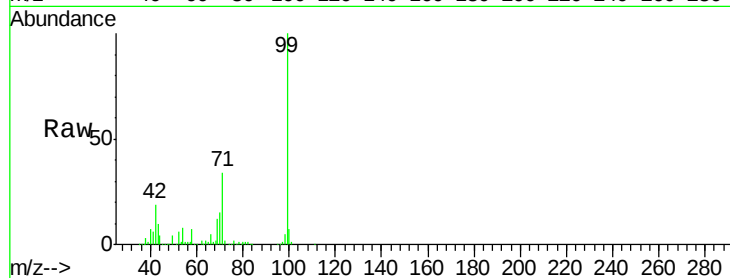
Tgt Ion: 99 Resp: 306859

Ion Ratio Lower Upper

99 100

42 18.8 12.8 19.2

71 33.8 30.9 46.3



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

6.30

400000

300000

200000

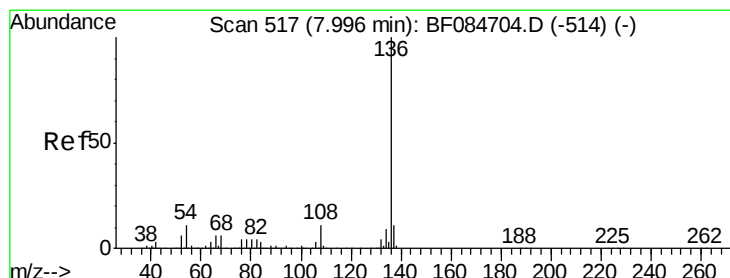
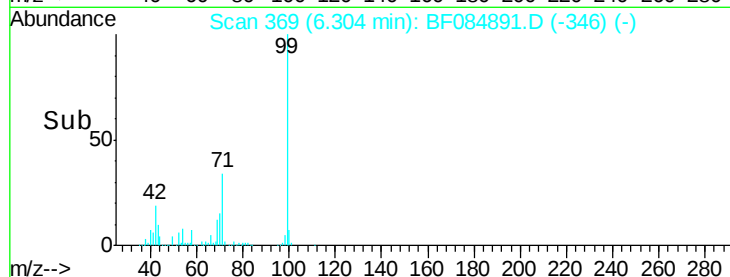
100000

0

6.30

6.40

Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

Tgt Ion: 136 Resp: 731113

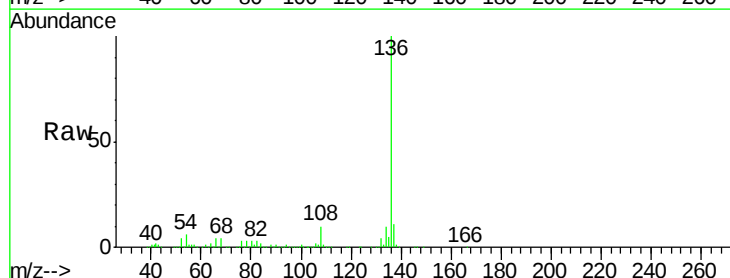
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 6.5 5.8 8.8

68 4.0 4.2 6.2#



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

7.95

1200000

1000000

800000

600000

400000

200000

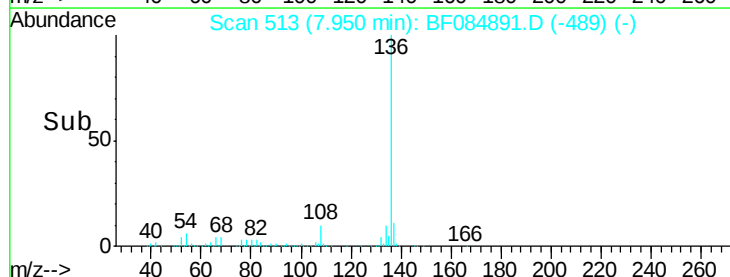
0

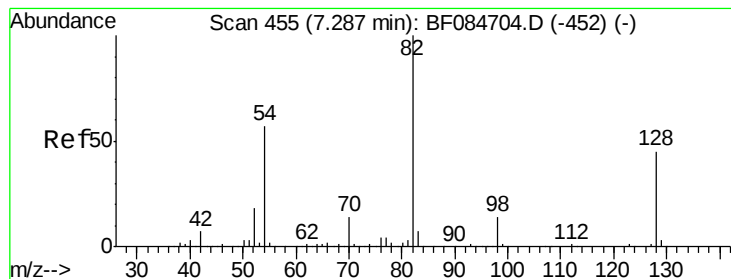
7.90

8.00

8.10

Time-->





#23

Nitrobenzene-d5

Concen: 13.99 ng

RT: 7.23 min Scan# 450

Delta R.T. -0.03 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

Instrument :

BNA_F

ClientSampleId :

S4-B004(0-2)

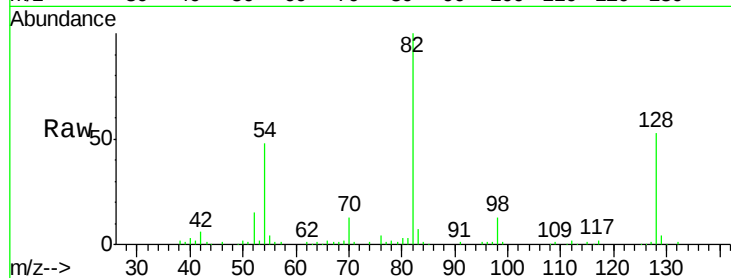
Tgt Ion: 82 Resp: 181634

Ion Ratio Lower Upper

82 100

128 52.5 34.6 51.8#

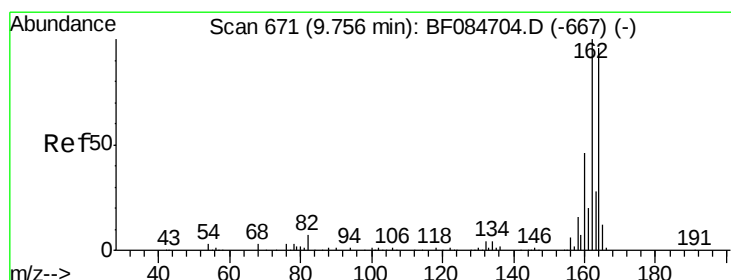
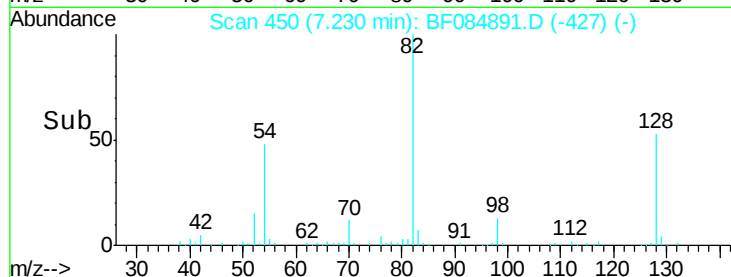
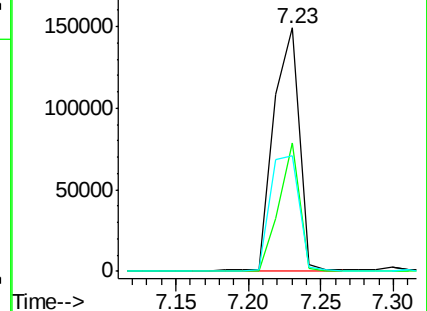
54 47.7 38.4 57.6



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 666

Delta R.T. -0.03 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

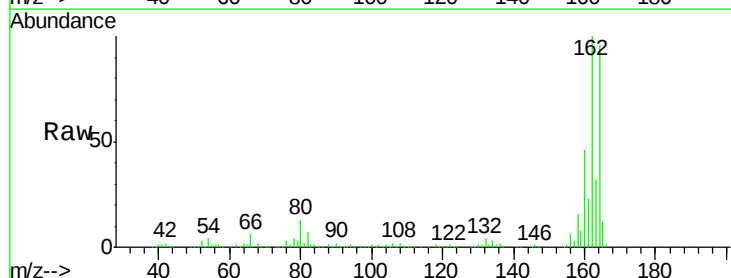
Tgt Ion: 164 Resp: 314483

Ion Ratio Lower Upper

164 100

162 103.9 85.1 127.7

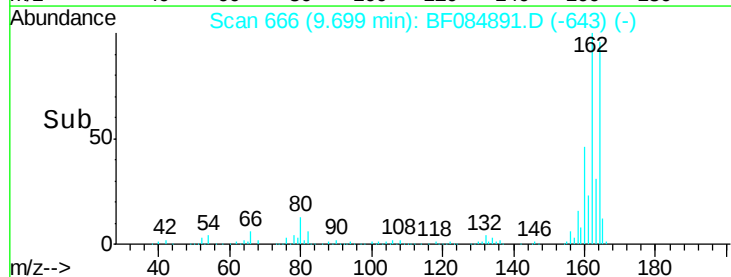
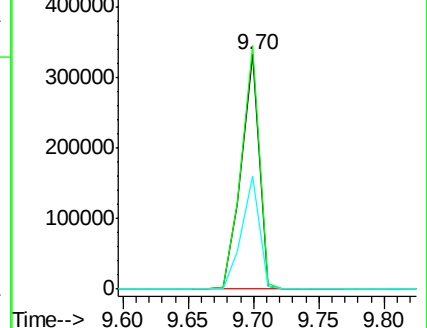
160 48.1 37.5 56.3



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

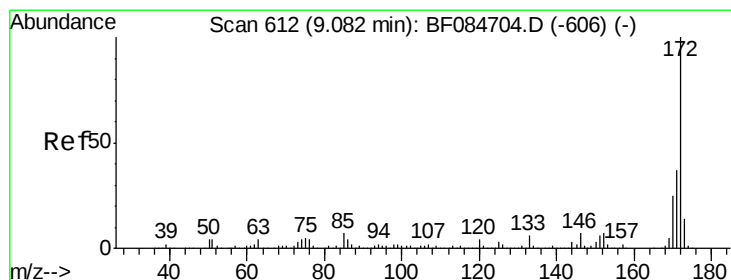
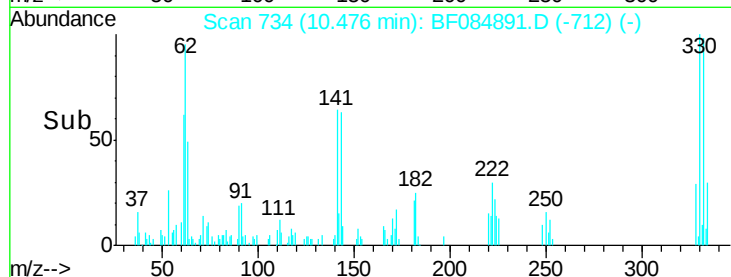
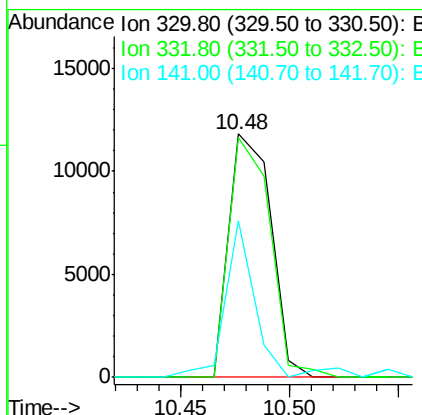
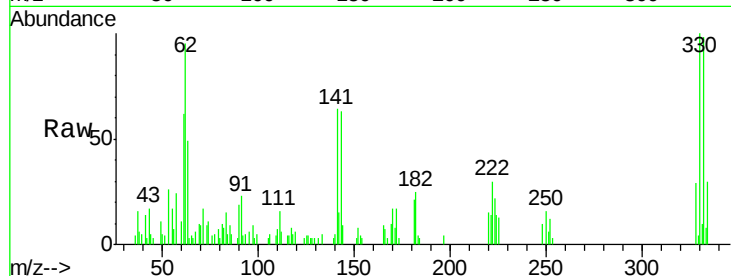




#41
 2,4,6-Tribromophenol
 Concen: 4.83 ng
 RT: 10.48 min Scan# 734
 Delta R.T. -0.05 min
 Lab File: BF084891.D
 Acq: 6 Feb 2016 5:46

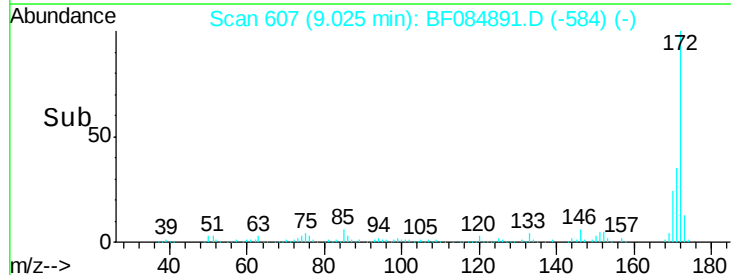
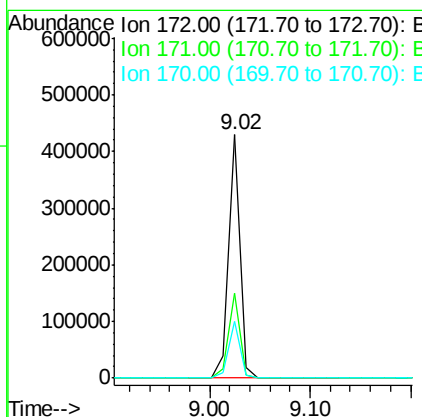
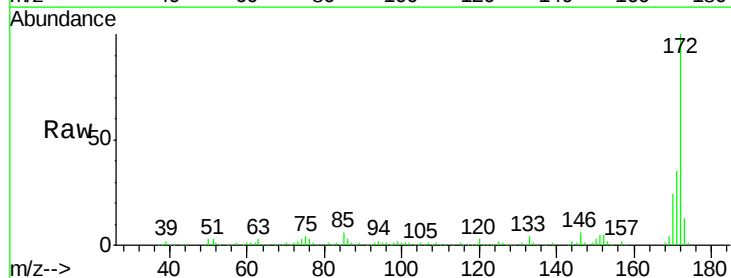
Instrument :
 BNA_F
 ClientSampleId :
 S4-B004(0-2)

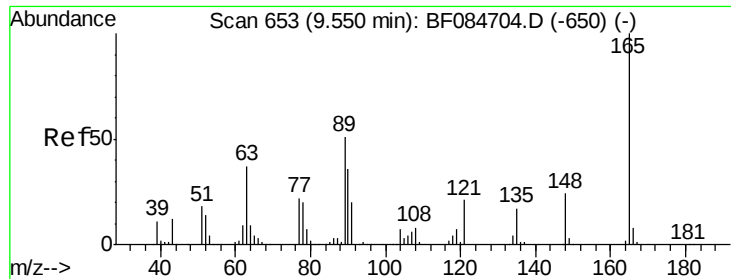
Tgt Ion:330 Resp: 15858
 Ion Ratio Lower Upper
 330 100
 332 96.5 76.6 114.8
 141 44.9 27.8 41.6#



#44
 2-Fluorobiphenyl
 Concen: 13.29 ng
 RT: 9.02 min Scan# 607
 Delta R.T. -0.03 min
 Lab File: BF084891.D
 Acq: 6 Feb 2016 5:46

Tgt Ion:172 Resp: 337433
 Ion Ratio Lower Upper
 172 100
 171 35.0 28.9 43.3
 170 23.5 18.6 27.8

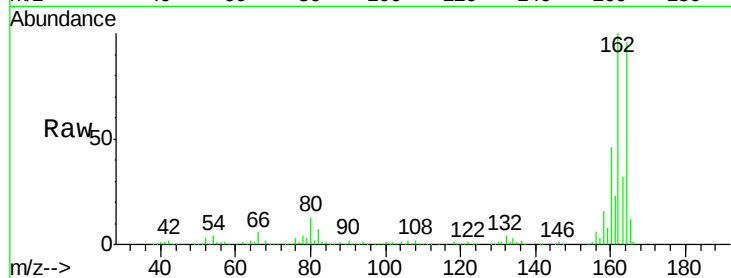




#50
 2,6-Dinitrotoluene
 Concen: 7.75 ng
 RT: 9.70 min Scan# 666
 Delta R.T. 0.17 min
 Lab File: BF084891.D
 Acq: 6 Feb 2016 5:46

Instrument :
 BNA_F
 ClientSampleId :
 S4-B004(0-2)

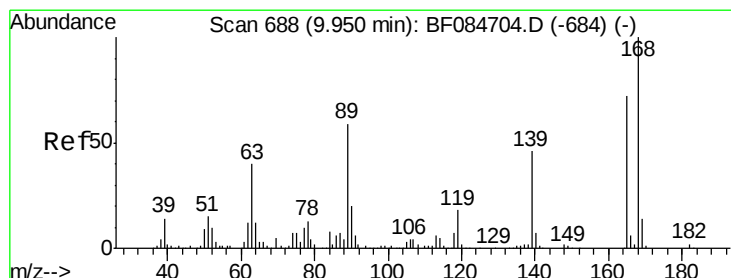
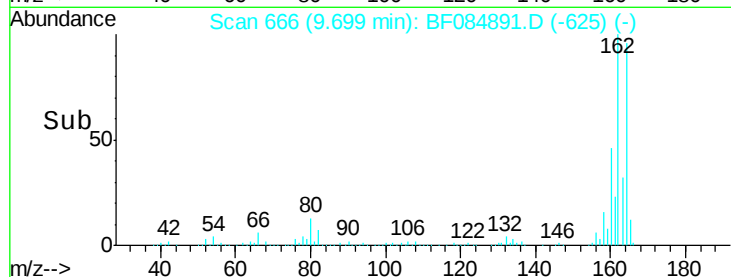
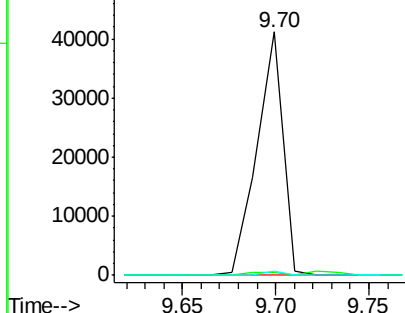
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	28.8	43.2#
89	1.6	35.1	52.7#



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



#56
 2,4-Dinitrotoluene
 Concen: 6.08 ng
 RT: 9.70 min Scan# 666
 Delta R.T. -0.23 min
 Lab File: BF084891.D
 Acq: 6 Feb 2016 5:46

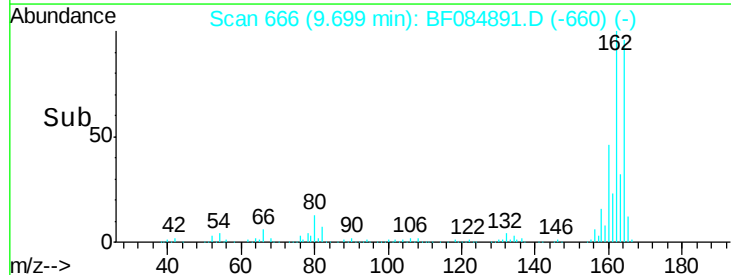
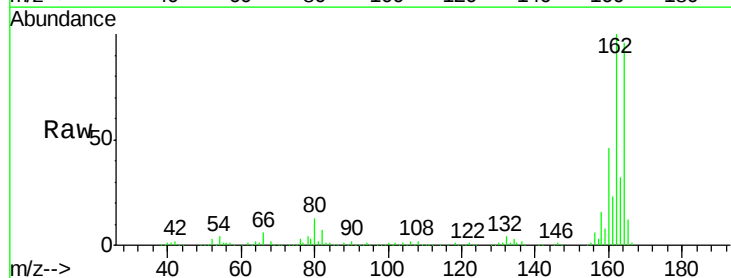
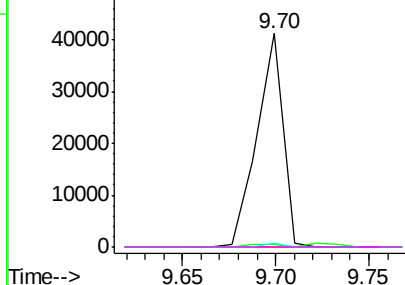
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	36.7	55.1#
89	1.6	61.9	92.9#
182	0.0	2.0	3.0#

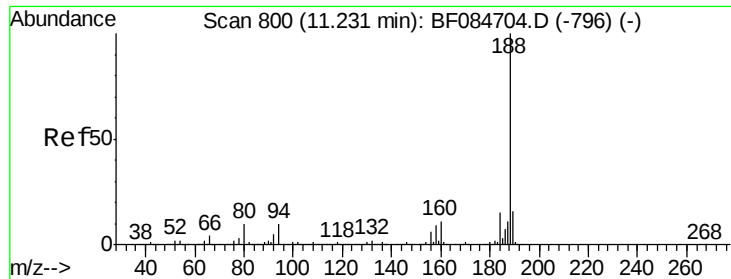
Abundance Ion 165.00 (164.70 to 165.70): E

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

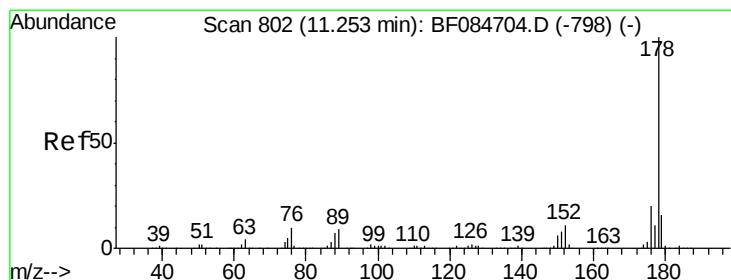
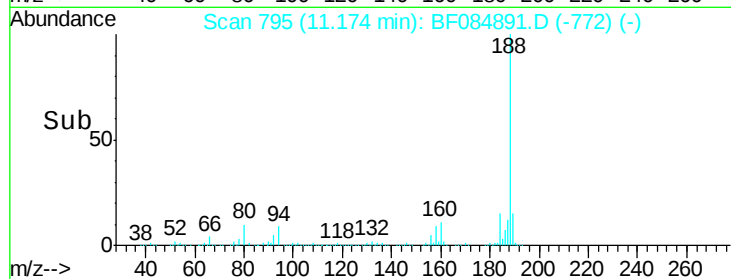
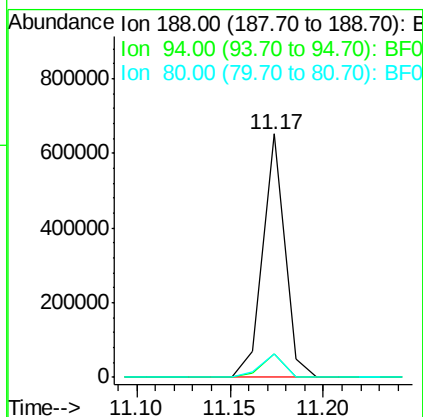
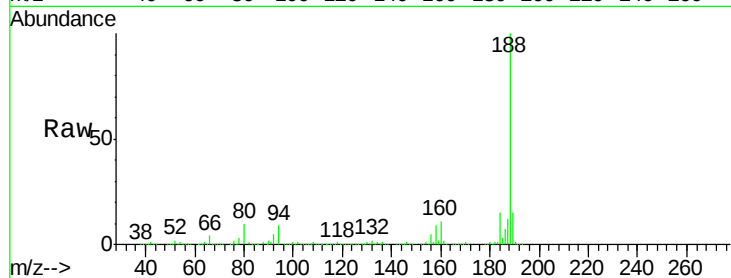




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.17 min Scan# 795
Delta R.T. -0.03 min
Lab File: BF084891.D
Acq: 6 Feb 2016 5:46

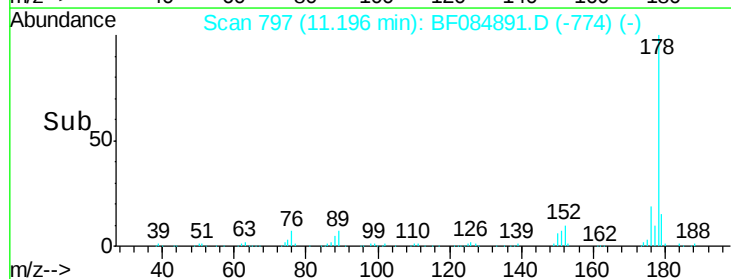
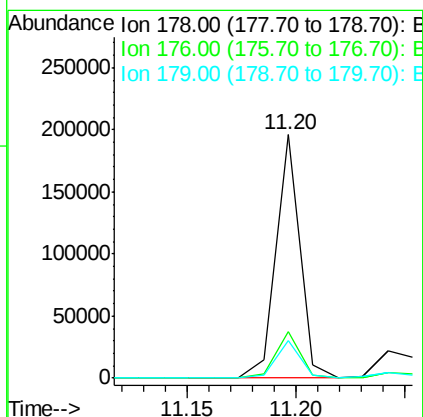
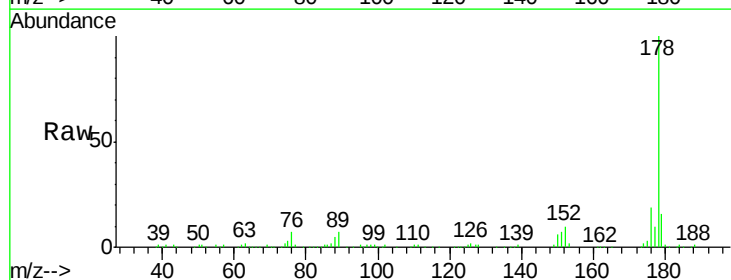
Instrument :
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S4-B004(0-2)

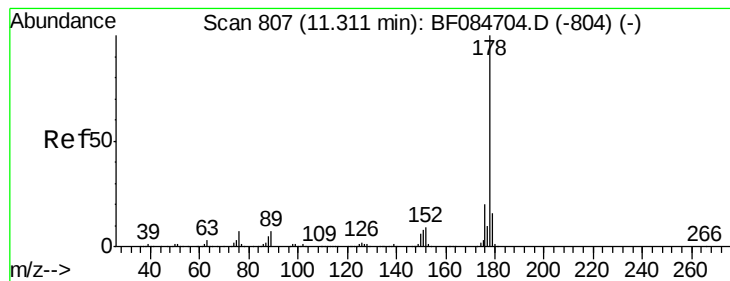
Tgt Ion:188 Resp: 532875
Ion Ratio Lower Upper
188 100
94 9.4 9.0 13.4
80 9.5 9.6 14.4#



#70
Phenanthrene
Concen: 5.17 ng
RT: 11.20 min Scan# 797
Delta R.T. -0.03 min
Lab File: BF084891.D
Acq: 6 Feb 2016 5:46

Tgt Ion:178 Resp: 152710
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.7 12.0 18.0





#71

Anthracene

Concen: 5.13 ng

RT: 11.20 min Scan# 797

Delta R.T. -0.09 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

Instrument :

BNA_F

ClientSampleId :

S4-B004(0-2)

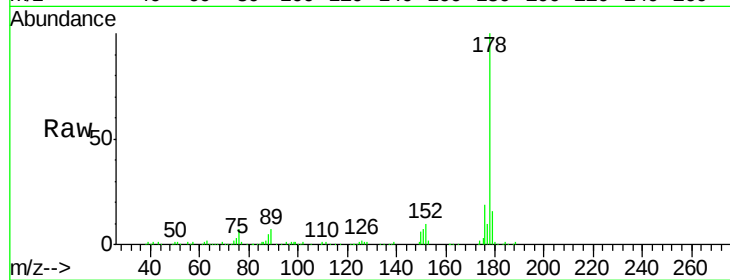
Tgt Ion:178 Resp: 152710

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.0

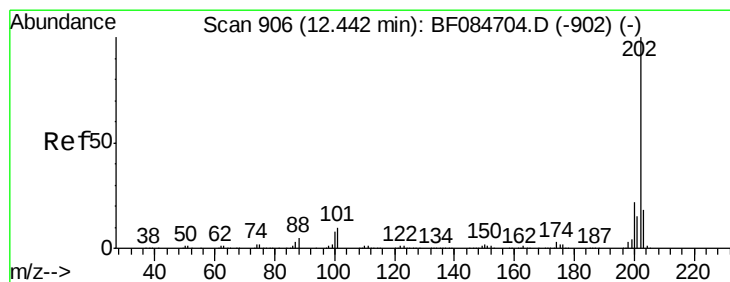
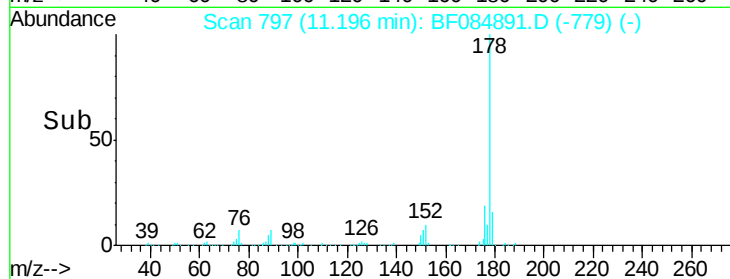
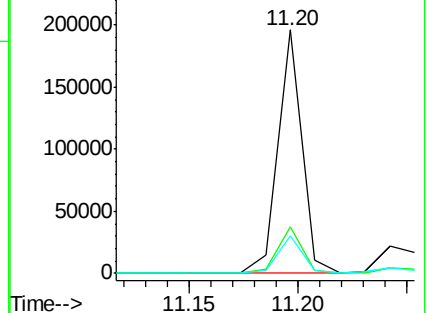
179 15.7 12.5 18.7



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



#74

Fluoranthene

Concen: 4.24 ng

RT: 12.37 min Scan# 900

Delta R.T. -0.05 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

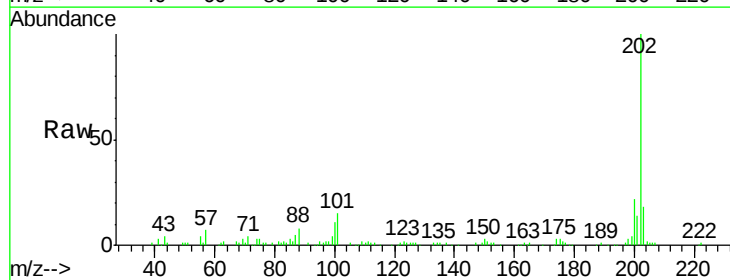
Tgt Ion:202 Resp: 126891

Ion Ratio Lower Upper

202 100

101 14.5 0.0 32.8

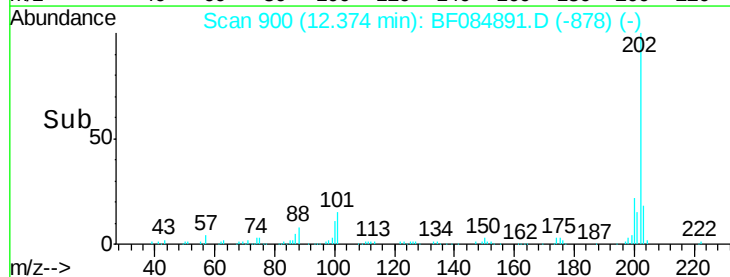
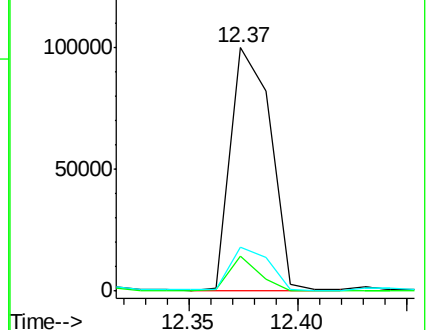
203 18.1 0.0 37.9

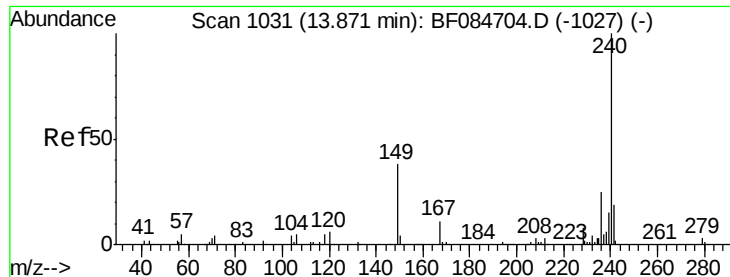


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.80 min Scan# 1025

Delta R.T. -0.03 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

Instrument :

BNA_F

ClientSampleId :

S4-B004(0-2)

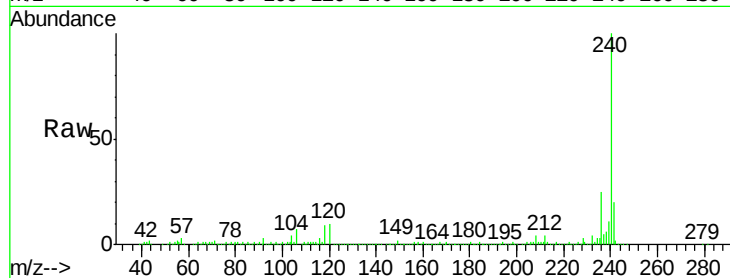
Tgt Ion:240 Resp: 374516

Ion Ratio Lower Upper

240 100

120 10.0 9.5 14.3

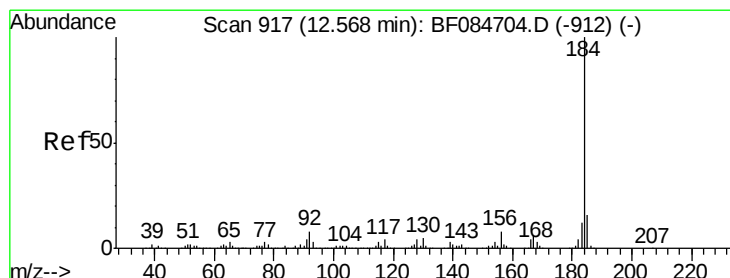
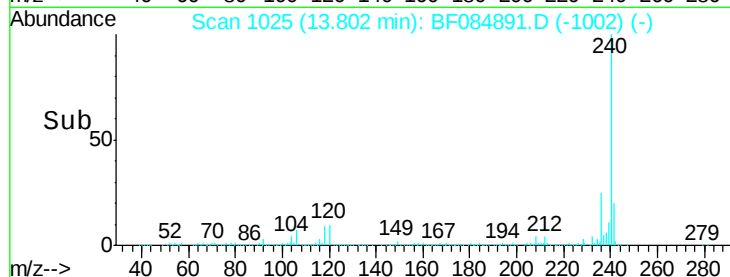
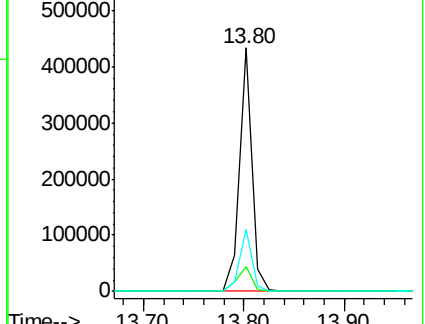
236 25.2 20.6 31.0



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



#76

Benzidine

Concen: 6.92 ng

RT: 12.52 min Scan# 913

Delta R.T. -0.02 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

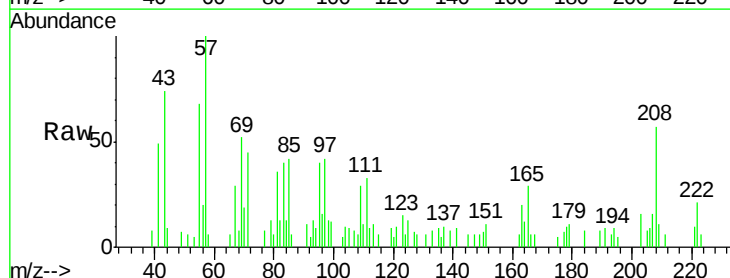
Tgt Ion:184 Resp: 606

Ion Ratio Lower Upper

184 100

185 0.0 12.2 18.2#

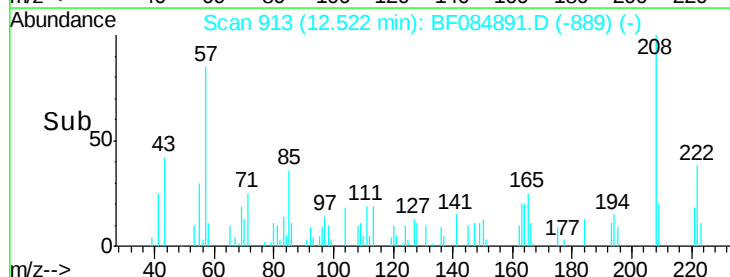
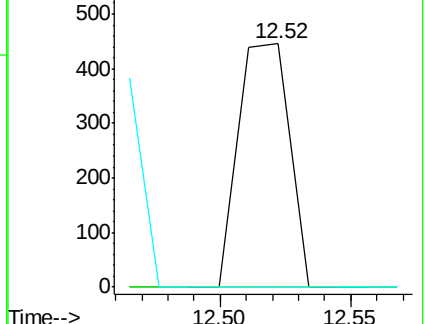
183 0.0 9.8 14.8#

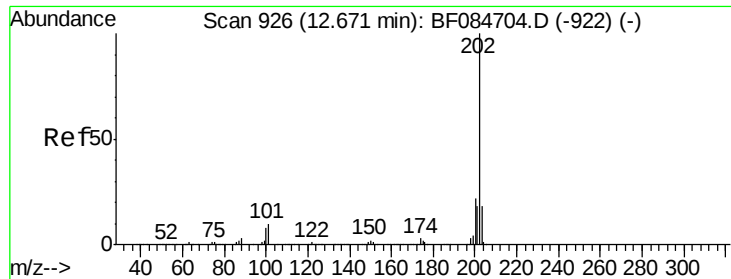


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

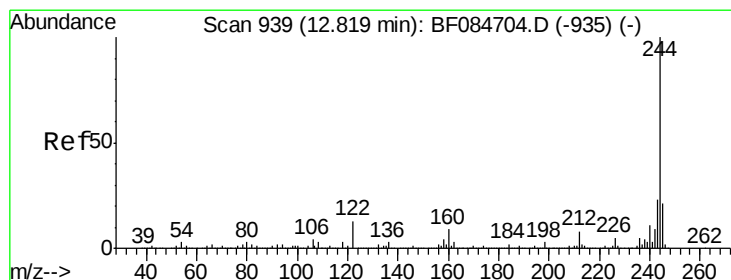
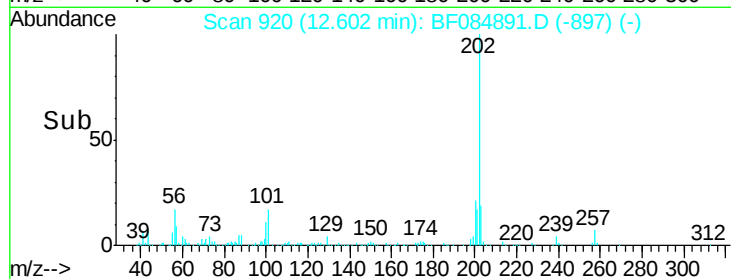
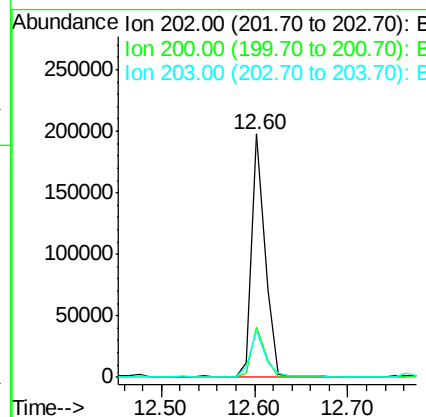
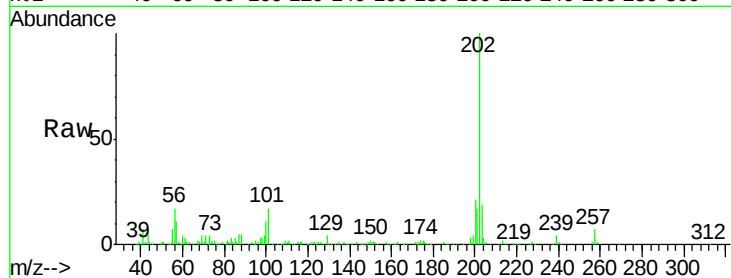




#77
 Pyrene
 Concen: 6.97 ng
 RT: 12.60 min Scan# 920
 Delta R.T. -0.03 min
 Lab File: BF084891.D
 Acq: 6 Feb 2016 5:46

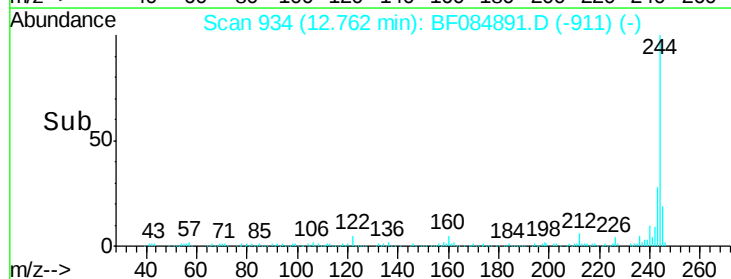
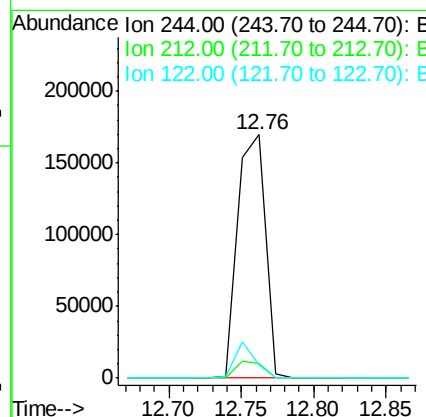
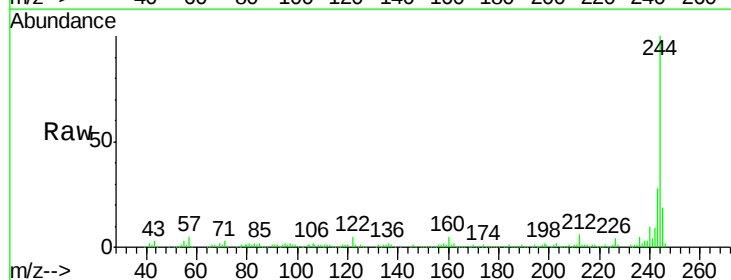
Instrument :
 BNA_F
 ClientSampleId :
 S4-B004(0-2)

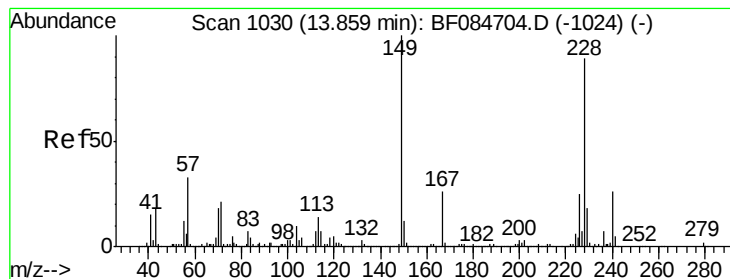
Tgt Ion: 202 Resp: 199886
 Ion Ratio Lower Upper
 202 100
 200 20.7 17.2 25.8
 203 18.9 14.3 21.5



#78
 Terphenyl-d14
 Concen: 13.61 ng
 RT: 12.76 min Scan# 934
 Delta R.T. -0.03 min
 Lab File: BF084891.D
 Acq: 6 Feb 2016 5:46

Tgt Ion: 244 Resp: 224917
 Ion Ratio Lower Upper
 244 100
 212 6.1 5.7 8.5
 122 5.4 7.4 11.0#





#80

Benzo(a)anthracene

Concen: 2.83 ng

RT: 13.79 min Scan# 1024

Delta R.T. -0.03 min

Lab File: BF084891.D

Acq: 6 Feb 2016 5:46

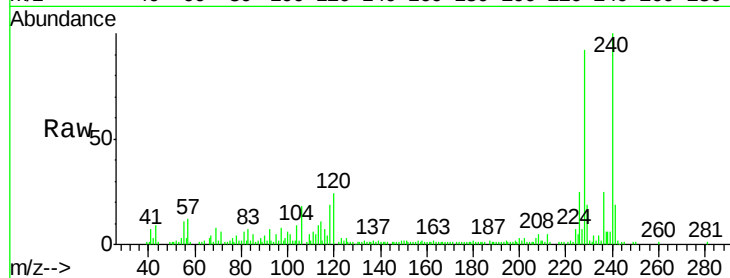
Instrument :

BNA_F

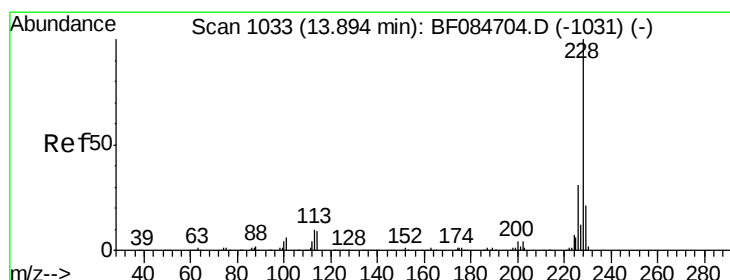
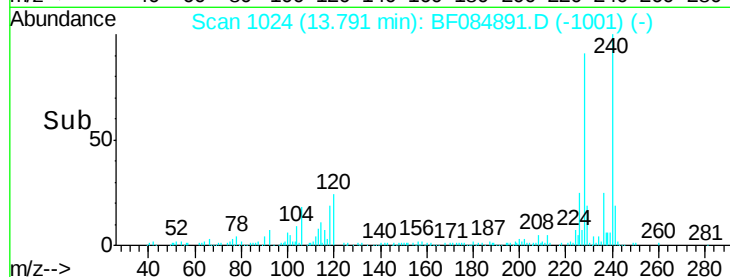
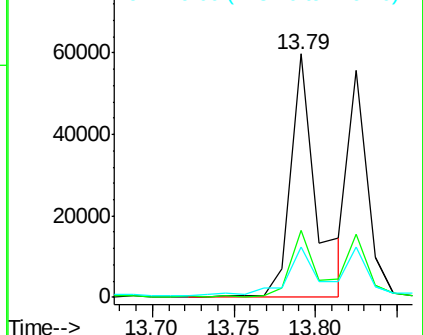
ClientSampleId :

S4-B004(0-2)

Tgt Ion:	228	Resp:	65711
Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.6
229	20.9	15.8	23.8



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: 2.07 ng

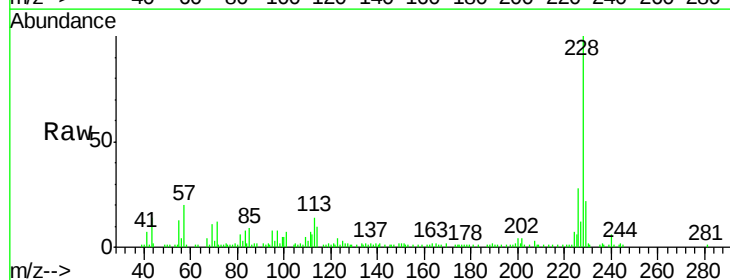
RT: 13.83 min Scan# 1027

Delta R.T. -0.03 min

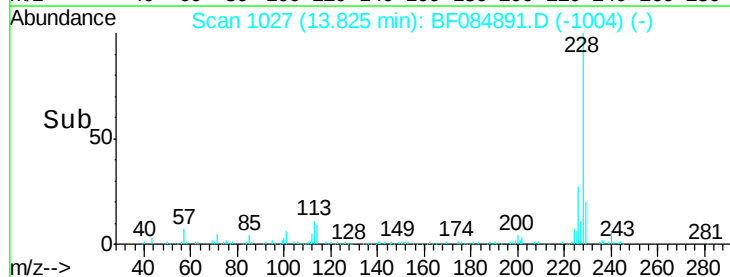
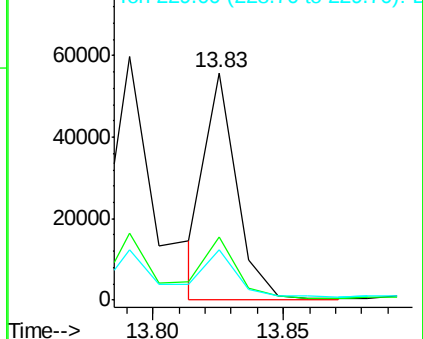
Lab File: BF084891.D

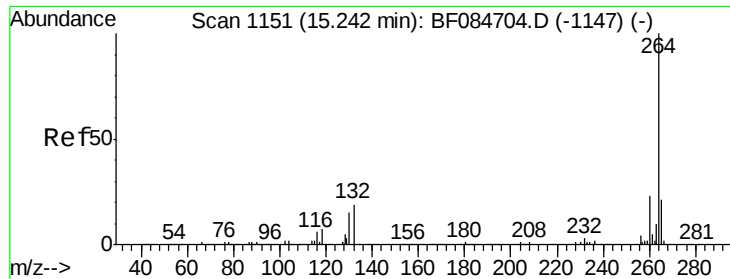
Acq: 6 Feb 2016 5:46

Tgt Ion:	228	Resp:	46693
Ion	Ratio	Lower	Upper
228	100		
226	27.8	24.3	36.5
229	22.0	16.1	24.1



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

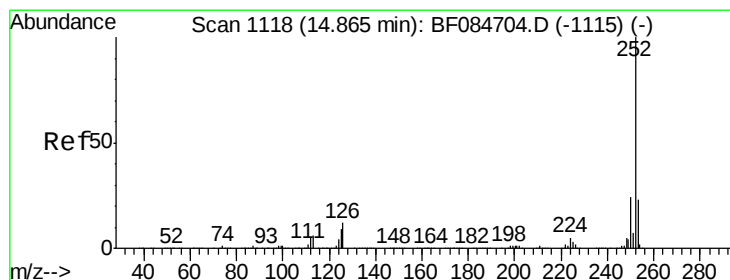
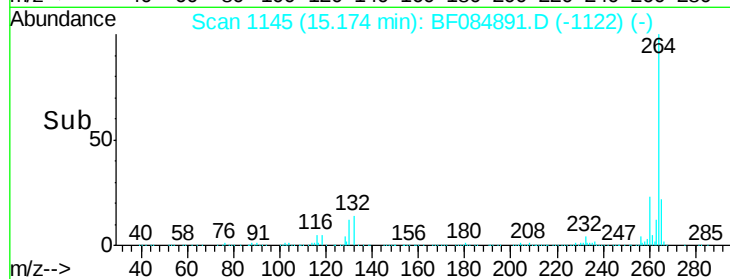
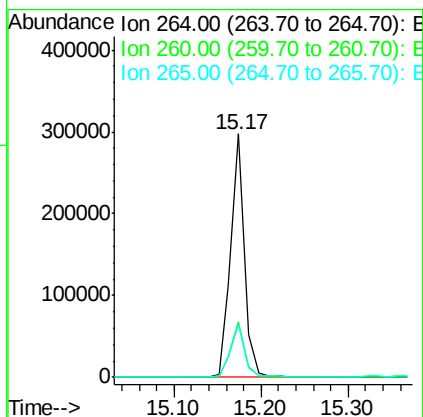
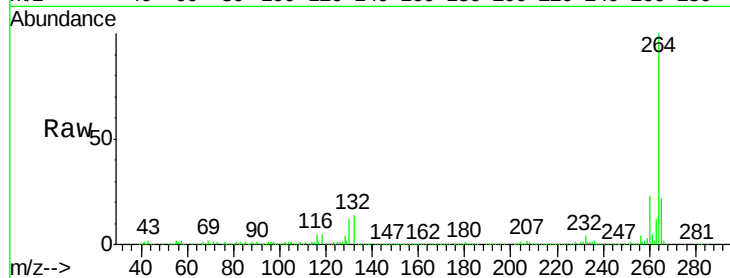




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.17 min Scan# 1145
Delta R.T. -0.03 min
Lab File: BF084891.D
Acq: 6 Feb 2016 5:46

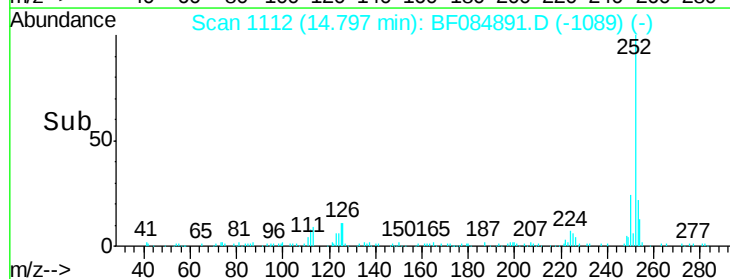
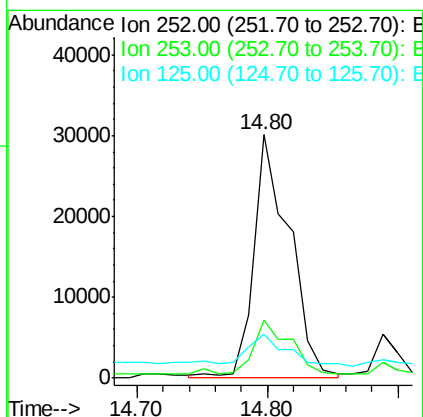
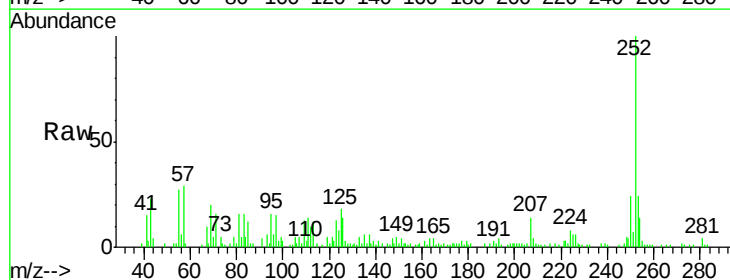
Instrument :
BNA_F
ClientSampleId :
S4-B004(0-2)

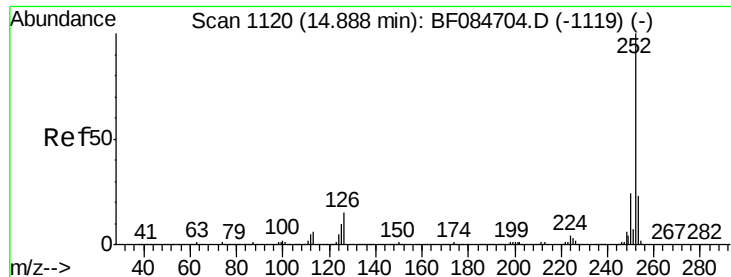
Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.4	29.2
265	21.7	17.8	26.6



#87
Benzo(b)fluoranthene
Concen: 2.62 ng
RT: 14.80 min Scan# 1112
Delta R.T. -0.03 min
Lab File: BF084891.D
Acq: 6 Feb 2016 5:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.3	25.9
125	17.9	6.5	9.7#





#88

Benzo(k)fluoranthene

Concen: 3.03 ng

RT: 14.80 min Scan# 1112

Delta R.T. -0.06 min

Lab File: BF084891.D

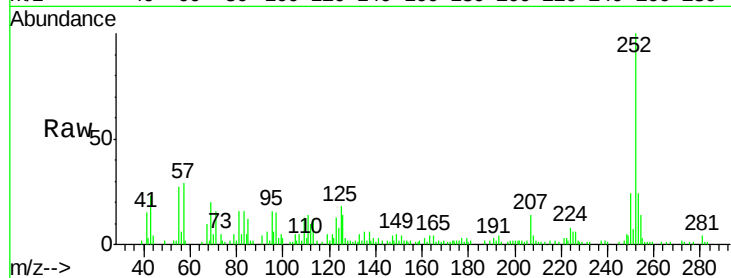
Acq: 6 Feb 2016 5:46

Instrument :

BNA_F

ClientSampleId :

S4-B004(0-2)



Tgt Ion:	252	Resp:	55129
Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	17.9	9.0	13.6

