

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070516\
 Data File : BF088729.D
 Acq On : 6 Jul 2016 4:01
 Operator : UM/SJ
 Sample : H3881-16
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Q6-B5-0-11-C

Quant Time: Jul 06 06:38:27 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 06 01:47:10 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	102680	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	361232	20.00	ng	-0.01
38) Acenaphthene-d10	9.80	164	156086	20.00	ng	-0.01
63) Phenanthrene-d10	11.28	188	252295	20.00	ng	-0.01
75) Chrysene-d12	13.91	240	204268	20.00	ng	-0.01
86) Perylene-d12	15.30	264	182042	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.37	112	575325	83.97	ng	0.00
7) Phenol-d6	6.41	99	652167	73.67	ng	0.00
23) Nitrobenzene-d5	7.34	82	404941	58.75	ng	-0.01
41) 2,4,6-Tribromophenol	10.59	330	127235	87.78	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	730596	73.94	ng	0.00
78) Terphenyl-d14	12.87	244	504982	55.06	ng	0.00

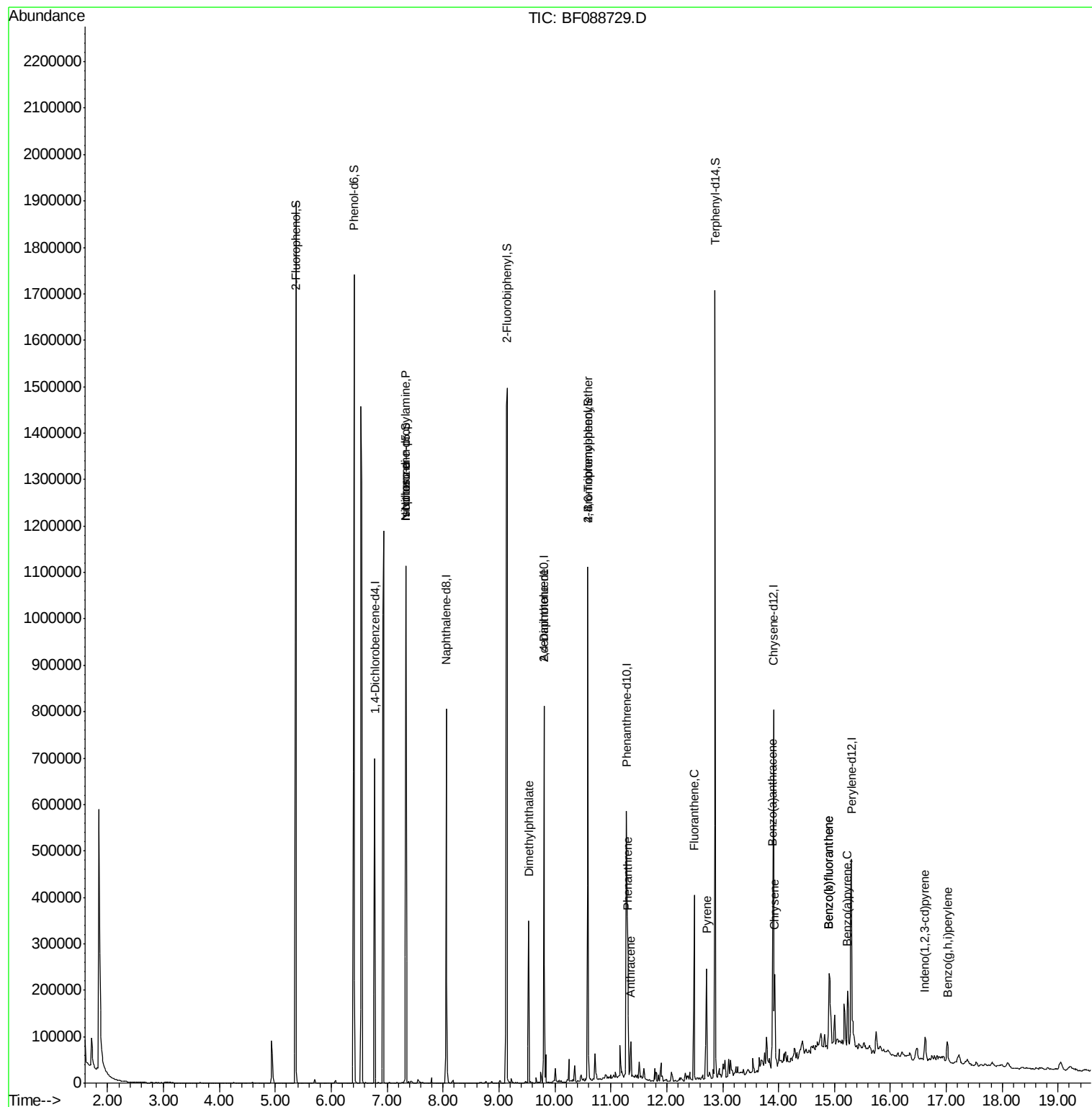
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.34	70	53977	9.08	ng	# 73
25) Isophorone	7.34	82	335783	26.30	ng	# 65
49) Dimethylphthalate	9.53	163	140132	12.60	ng	99
56) 2,4-Dinitrotoluene	9.80	165	20314	6.30	ng	# 38
66) 4-Bromophenyl-phenylether	10.59	248	9182	3.61	ng	# 1
70) Phenanthrene	11.30	178	112394	8.15	ng	99
71) Anthracene	11.36	178	30302	2.21	ng	98
74) Fluoranthene	12.49	202	165754	11.86	ng	95
77) Pyrene	12.72	202	134279	7.75	ng	97
80) Benzo(a)anthracene	13.90	228	83271	6.33	ng	99
82) Chrysene	13.93	228	57661	4.43	ng	96
85) Indeno(1,2,3-cd)pyrene	16.62	276	33508	3.35	ng	# 100
87) Benzo(b)fluoranthene	14.90	252	118541	10.38	ng	# 92
88) Benzo(k)fluoranthene	14.90	252	118541	11.92	ng	97
89) Benzo(a)pyrene	15.23	252	58109	6.01	ng	98
91) Benzo(g,h,i)perylene	17.02	276	34783	4.16	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.78 min Scan# 454

Delta R.T. 0.00 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Instrument :

BNA_F

ClientSampleId :

Q6-B5-0-11-C

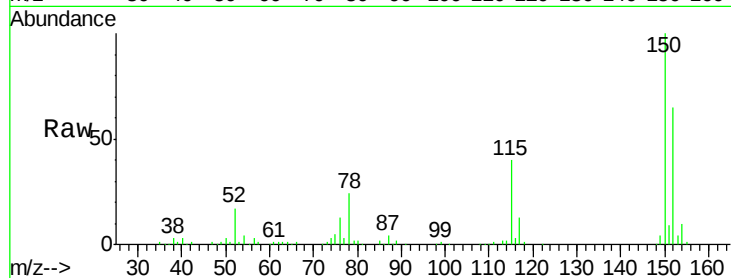
Tgt Ion:152 Resp: 102680

Ion Ratio Lower Upper

152 100

150 154.7 123.8 185.6

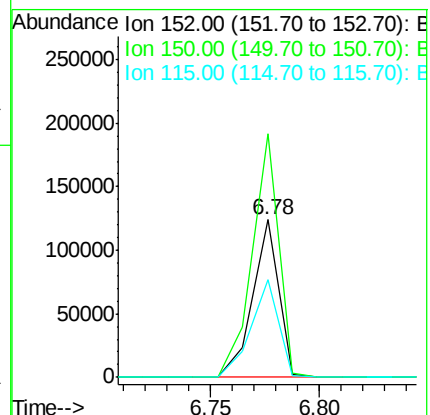
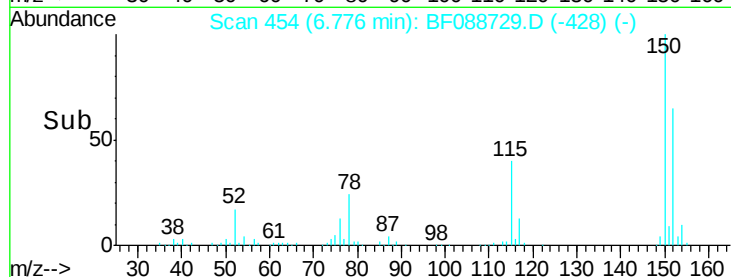
115 61.7 39.6 59.4#



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: 83.97 ng

RT: 5.37 min Scan# 331

Delta R.T. 0.00 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

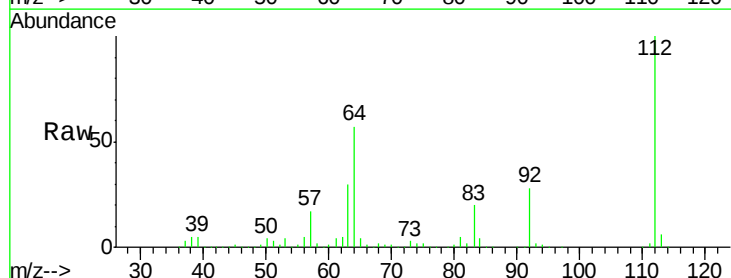
Tgt Ion:112 Resp: 575325

Ion Ratio Lower Upper

112 100

64 56.7 42.2 63.2

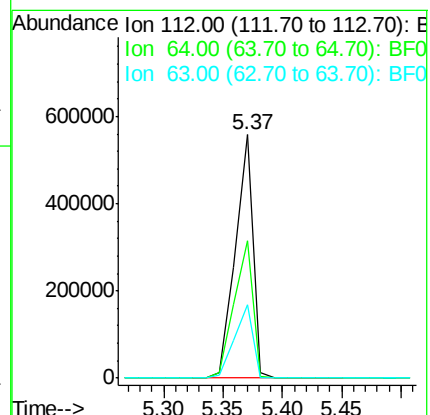
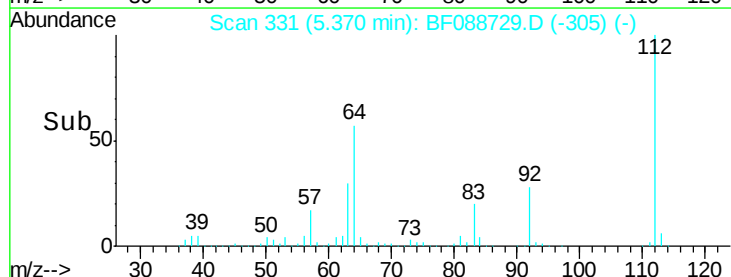
63 29.9 21.8 32.8



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: 73.67 ng

RT: 6.41 min Scan# 422

Delta R.T. 0.00 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Instrument :

BNA_F

ClientSampleId :

Q6-B5-0-11-C

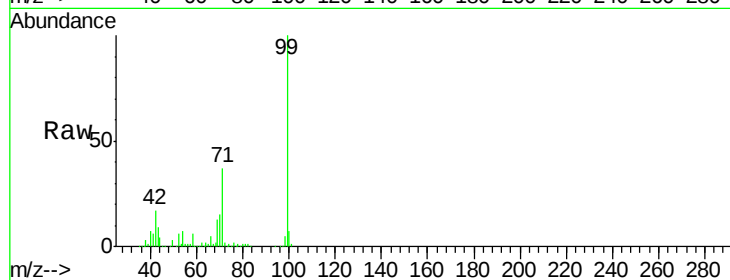
Tgt Ion: 99 Resp: 652167

Ion Ratio Lower Upper

99 100

42 17.4 12.2 18.2

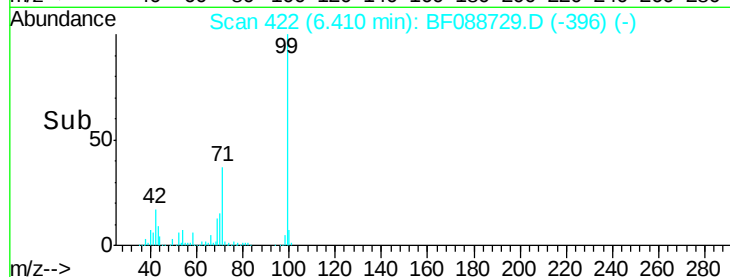
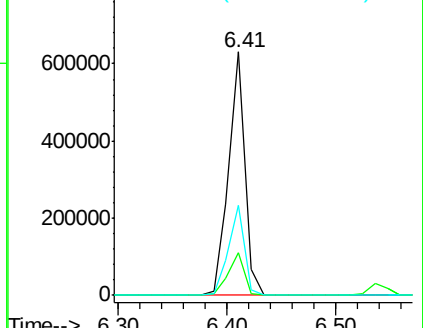
71 36.8 23.4 35.0#



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



#19

n-Nitroso-di-n-propylamine

Concen: 9.08 ng

RT: 7.34 min Scan# 503

Delta R.T. 0.14 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Tgt Ion: 70 Resp: 53977

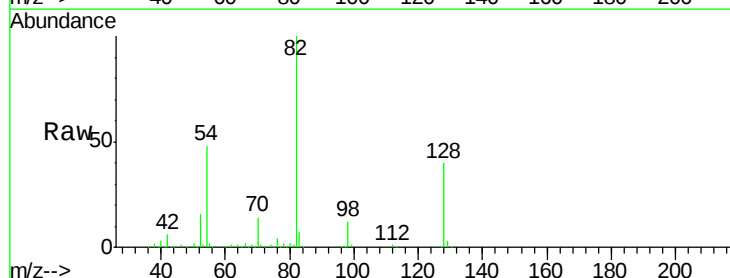
Ion Ratio Lower Upper

70 100

42 43.4 49.6 74.4#

101 0.0 7.1 10.7#

130 1.8 15.4 23.2#

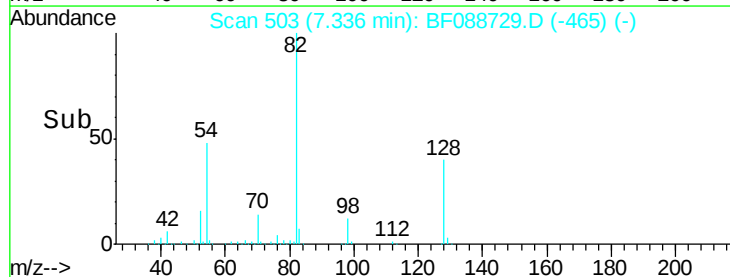
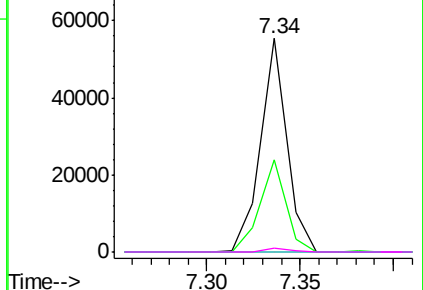


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 566

Delta R.T. -0.01 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Instrument :

BNA_F

ClientSampleId :

Q6-B5-0-11-C

Tgt Ion: 136 Resp: 361232

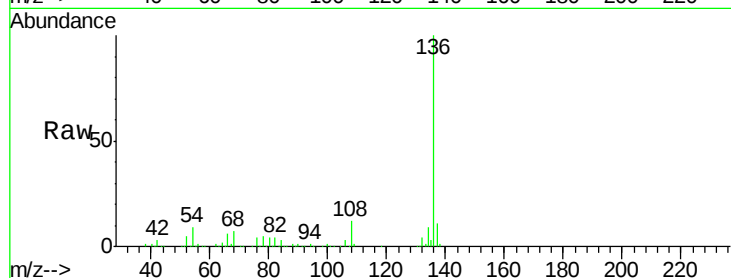
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 9.1 6.6 10.0

68 7.5 5.1 7.7

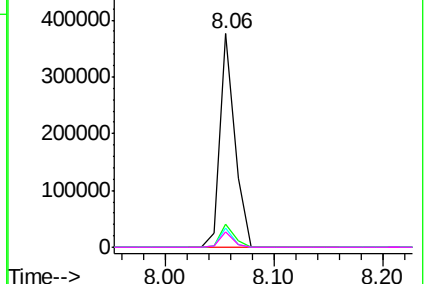
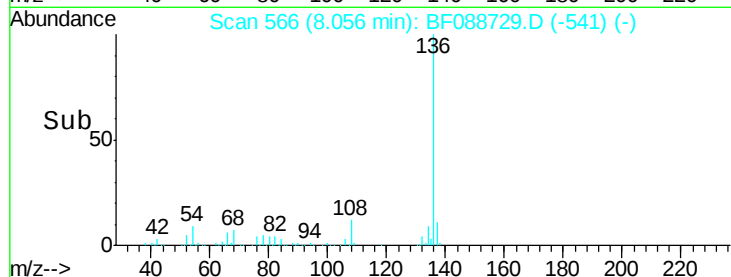


Abundance Ion 136.00 (135.70 to 136.70): E

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: 58.75 ng

RT: 7.34 min Scan# 503

Delta R.T. -0.01 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

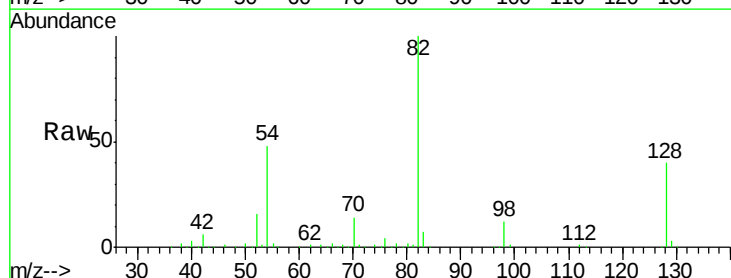
Tgt Ion: 82 Resp: 404941

Ion Ratio Lower Upper

82 100

128 39.6 35.9 53.9

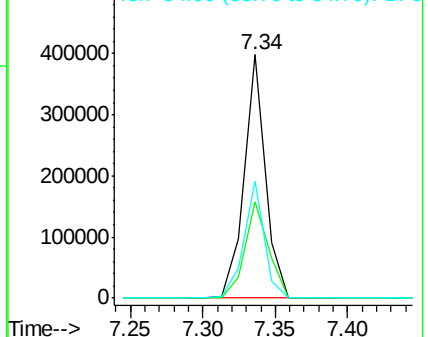
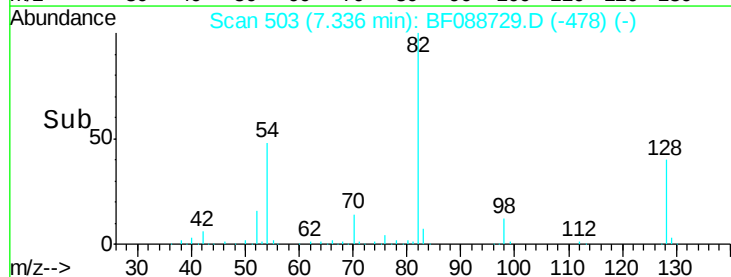
54 48.3 40.9 61.3

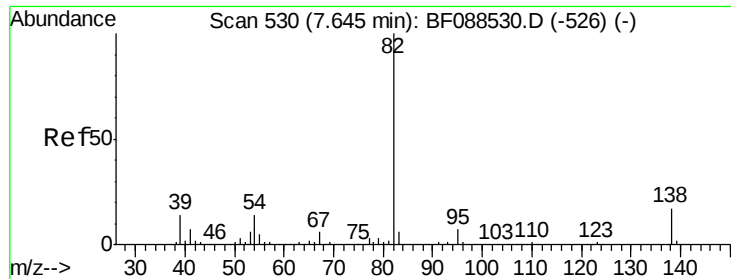


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 26.30 ng

RT: 7.34 min Scan# 503

Delta R.T. -0.27 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Instrument :

BNA_F

ClientSampleId :

Q6-B5-0-11-C

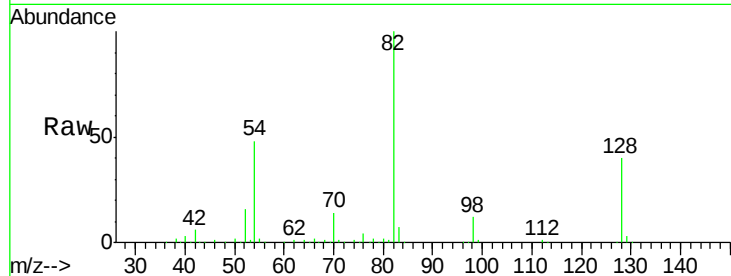
Tgt Ion: 82 Resp: 335783

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

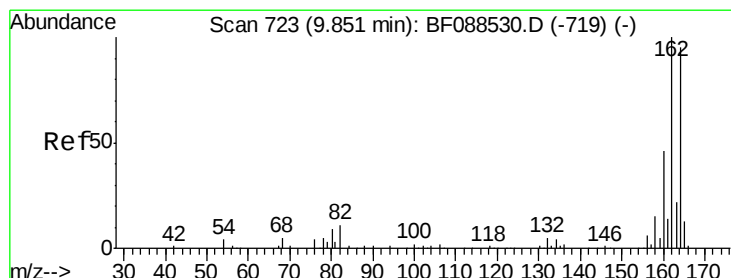
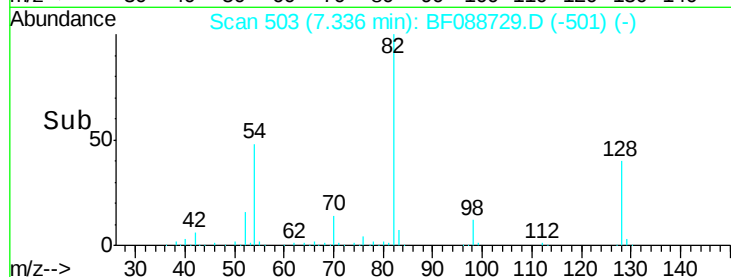
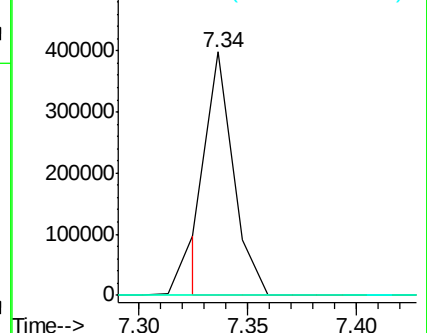
138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.80 min Scan# 719

Delta R.T. -0.01 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

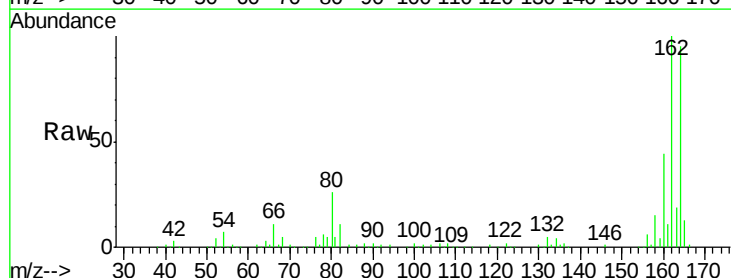
Tgt Ion: 164 Resp: 156086

Ion Ratio Lower Upper

164 100

162 105.2 85.4 128.2

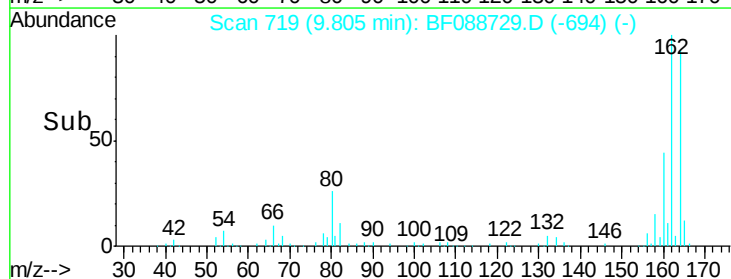
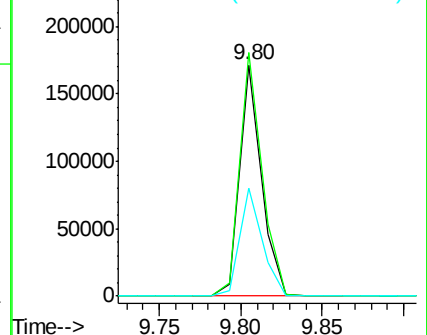
160 46.4 39.5 59.3



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

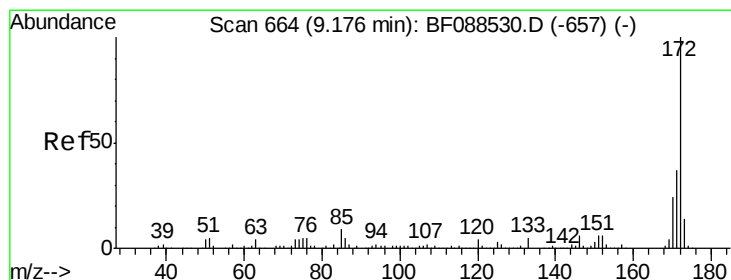
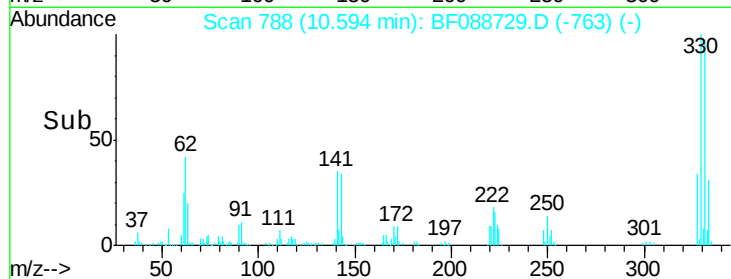
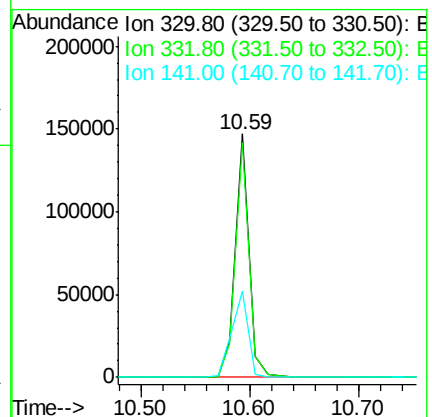
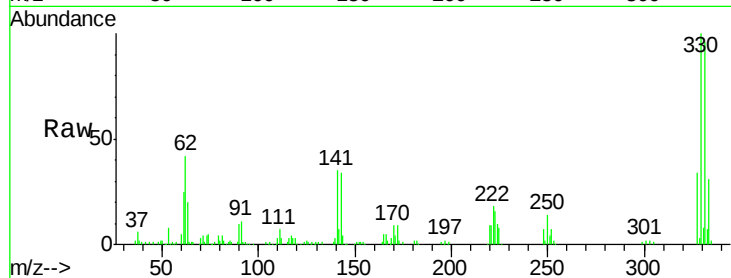




#41
 2,4,6-Tribromophenol
 Concen: 87.78 ng
 RT: 10.59 min Scan# 788
 Delta R.T. -0.01 min
 Lab File: BF088729.D
 Acq: 6 Jul 2016 4:01

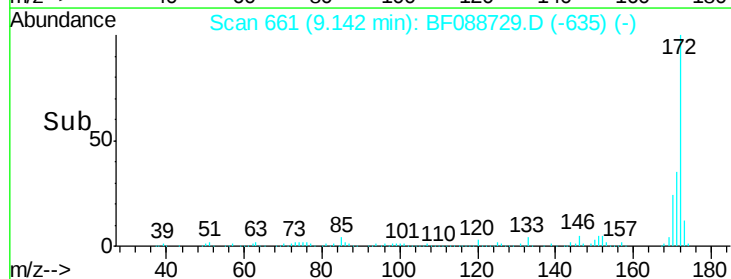
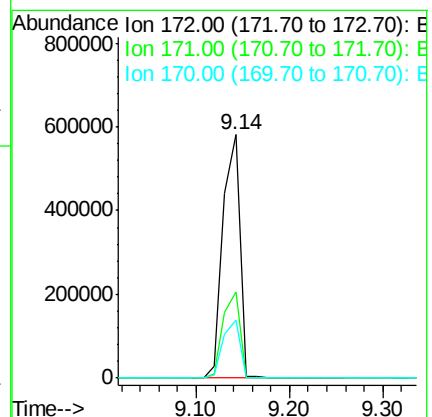
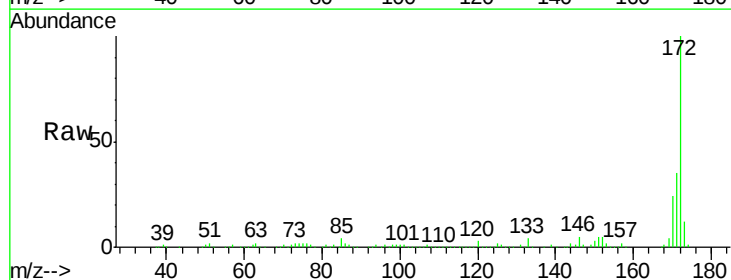
Instrument :
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 Q6-B5-0-11-C

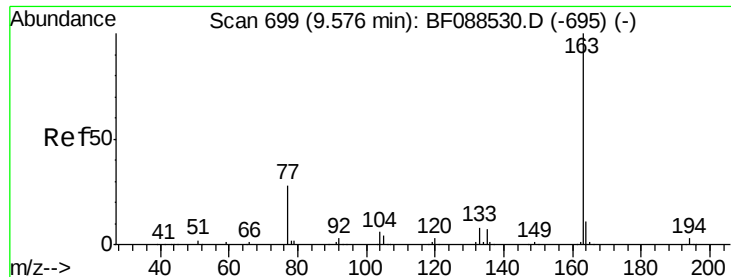
Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	0.0	0.0#
141	42.2	0.0	0.0#



#44
 2-Fluorobiphenyl
 Concen: 73.94 ng
 RT: 9.14 min Scan# 661
 Delta R.T. 0.00 min
 Lab File: BF088729.D
 Acq: 6 Jul 2016 4:01

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.6	19.2	28.8





#49

Dimethylphthalate

Concen: 12.60 ng

RT: 9.53 min Scan# 695

Delta R.T. -0.01 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Instrument :

BNA_F

ClientSampleId :

Q6-B5-0-11-C

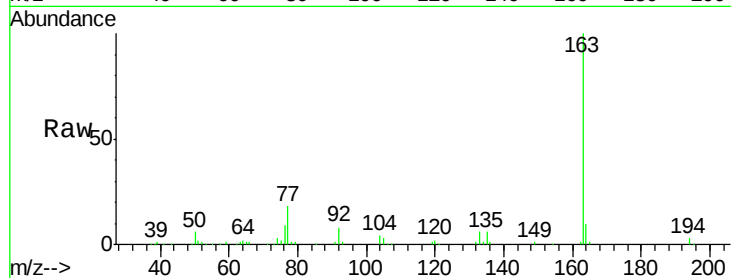
Tgt Ion:163 Resp: 140132

Ion Ratio Lower Upper

163 100

194 3.3 2.8 4.2

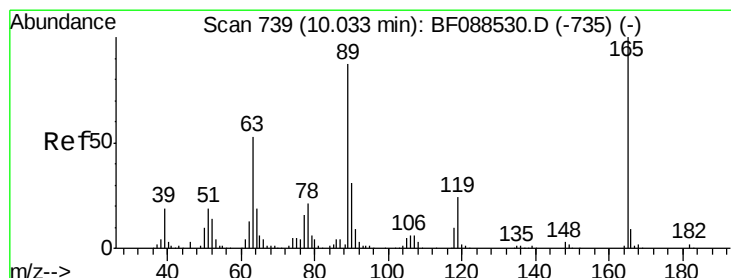
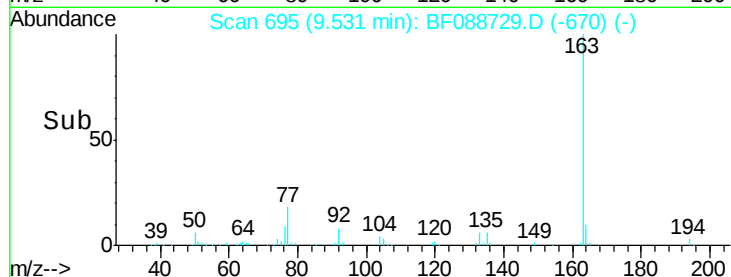
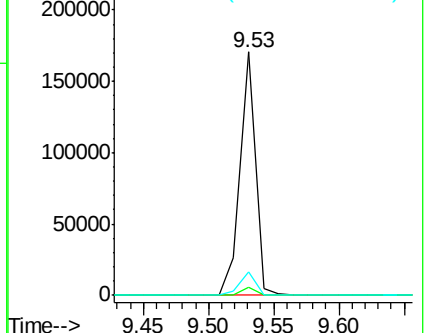
164 9.8 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 6.30 ng

RT: 9.80 min Scan# 719

Delta R.T. -0.19 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Tgt Ion:165 Resp: 20314

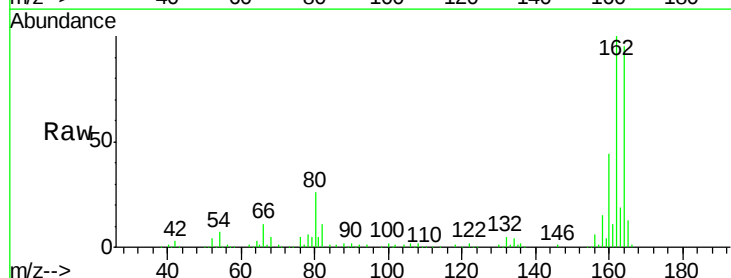
Ion Ratio Lower Upper

165 100

63 1.8 22.0 33.0#

89 1.4 41.1 61.7#

182 0.0 2.0 3.0#

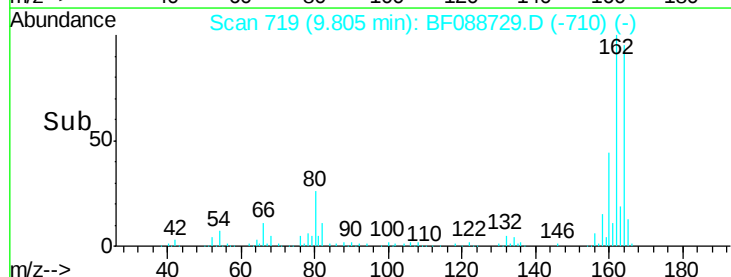
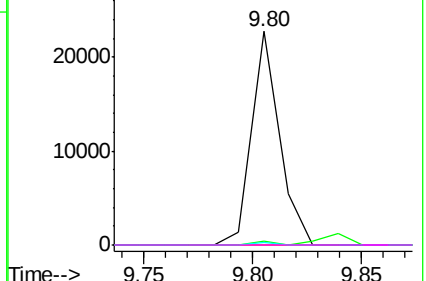


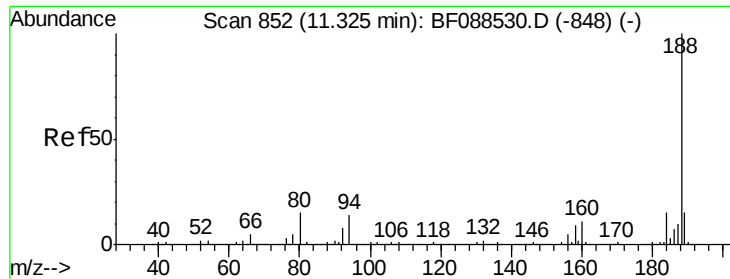
Abundance Ion 165.00 (164.70 to 165.70): E

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

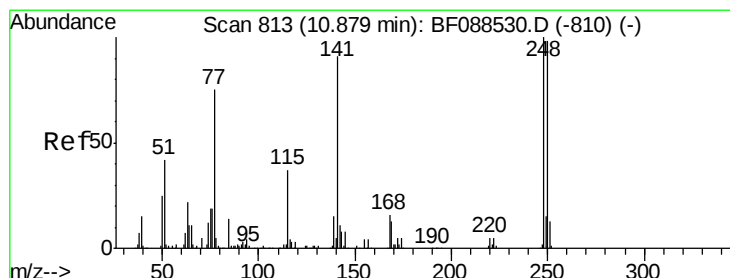
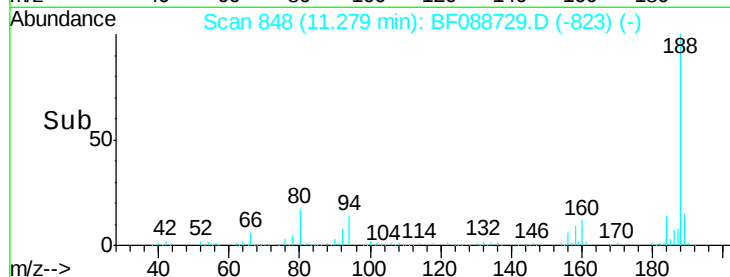
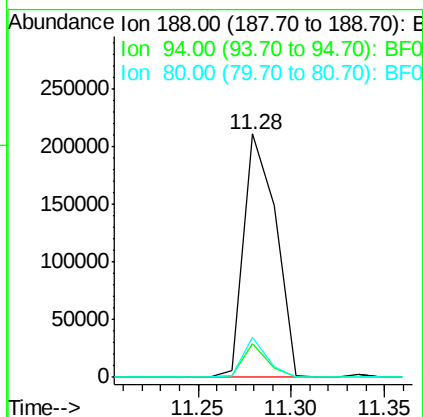
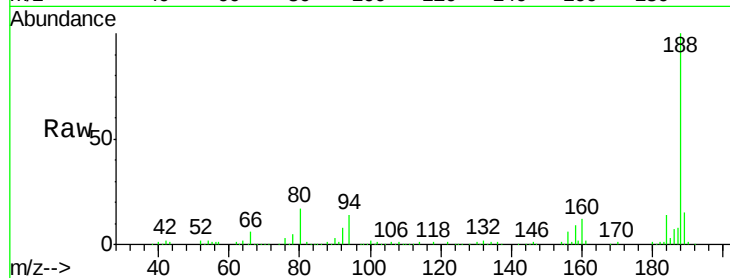




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.28 min Scan# 848
 Delta R.T. -0.01 min
 Lab File: BF088729.D
 Acq: 6 Jul 2016 4:01

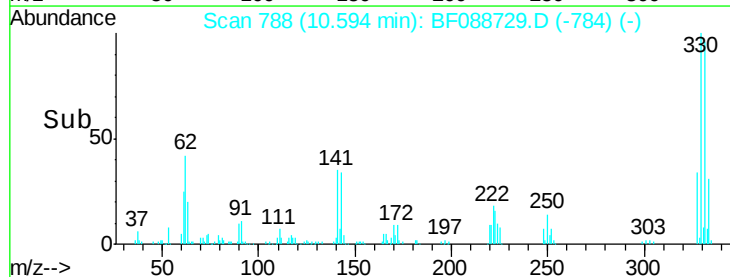
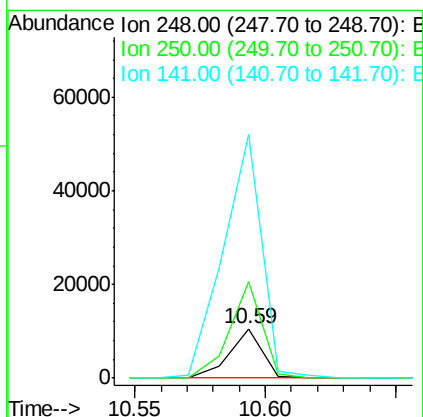
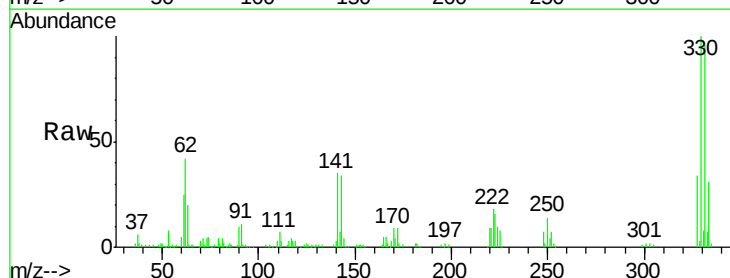
Instrument :
 BNA_F
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 Q6-B5-0-11-C

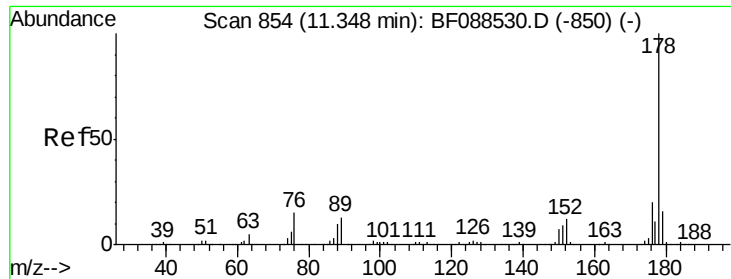
Tgt Ion:188 Resp: 252295
 Ion Ratio Lower Upper
 188 100
 94 14.0 9.0 13.6#
 80 16.6 10.0 15.0#



#66
 4-Bromophenyl-phenylether
 Concen: 3.61 ng
 RT: 10.59 min Scan# 788
 Delta R.T. -0.25 min
 Lab File: BF088729.D
 Acq: 6 Jul 2016 4:01

Tgt Ion:248 Resp: 9182
 Ion Ratio Lower Upper
 248 100
 250 194.6 77.1 115.7#
 141 493.9 50.6 76.0#

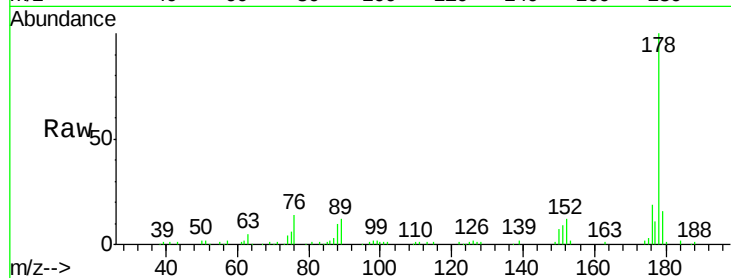




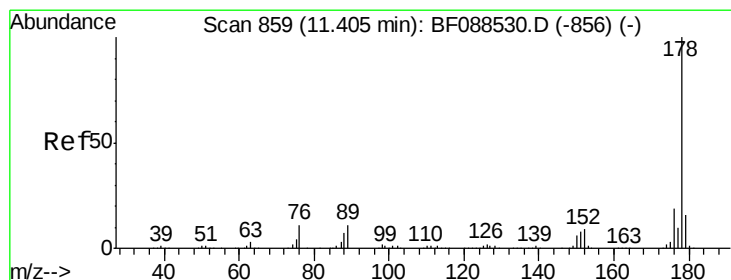
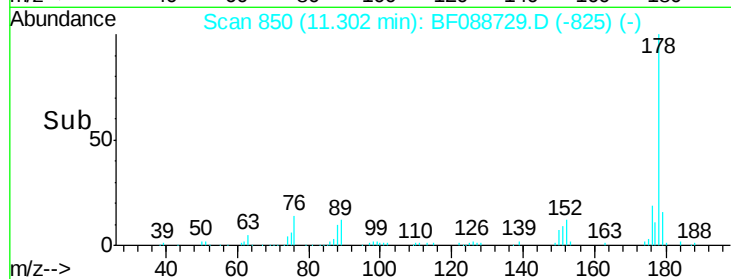
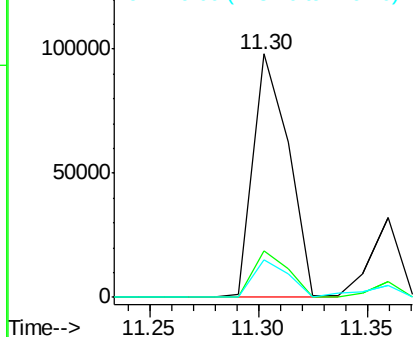
#70
Phenanthrene
Concen: 8.15 ng
RT: 11.30 min Scan# 850
Delta R.T. -0.01 min
Lab File: BF088729.D
Acq: 6 Jul 2016 4:01

Instrument :
BNA_F
ClientSampleId :
Q6-B5-0-11-C

Tgt Ion:178 Resp: 112394
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.6
179 15.6 13.0 19.4

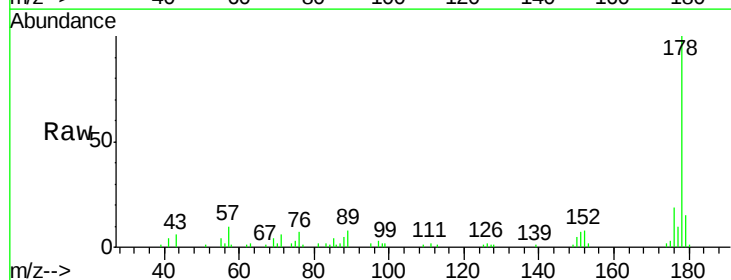


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

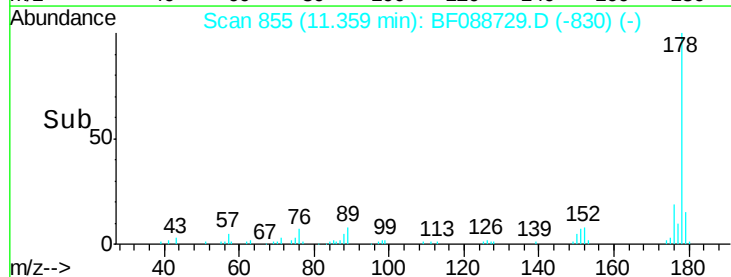
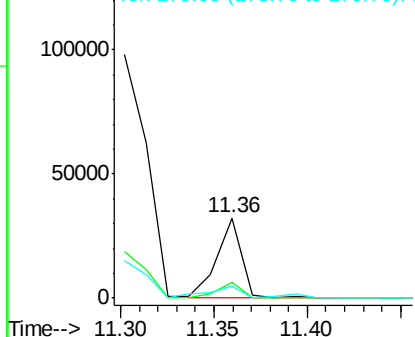


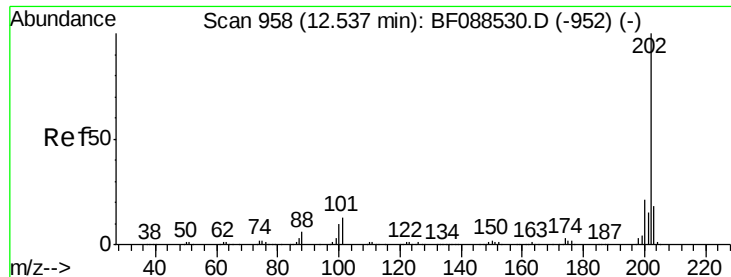
#71
Anthracene
Concen: 2.21 ng
RT: 11.36 min Scan# 855
Delta R.T. -0.01 min
Lab File: BF088729.D
Acq: 6 Jul 2016 4:01

Tgt Ion:178 Resp: 30302
Ion Ratio Lower Upper
178 100
176 19.0 15.6 23.4
179 15.1 12.8 19.2



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: 11.86 ng

RT: 12.49 min Scan# 954

Delta R.T. 0.00 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Instrument :

BNA_F

ClientSampleId :

Q6-B5-0-11-C

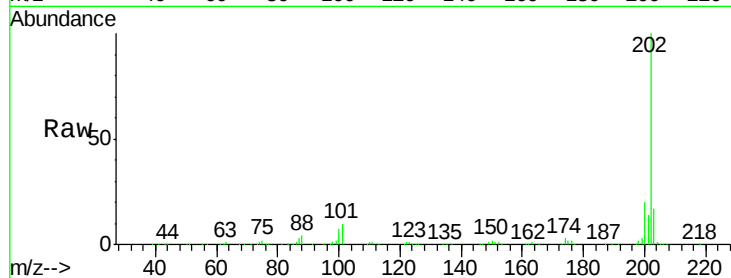
Tgt Ion: 202 Resp: 165754

Ion Ratio Lower Upper

202 100

101 9.6 0.0 33.1

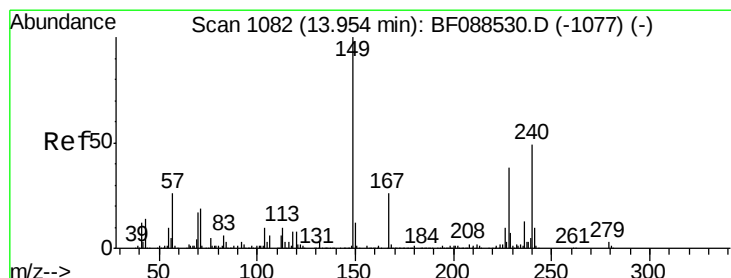
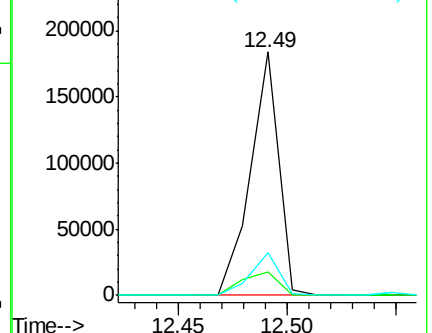
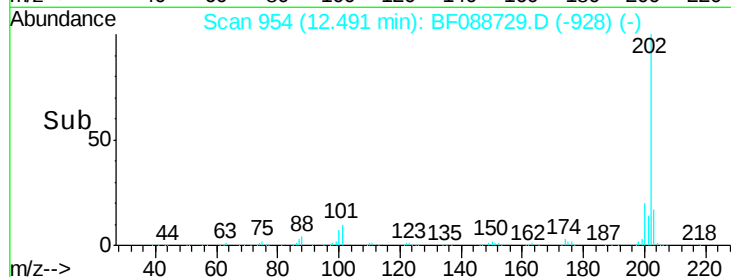
203 17.5 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.91 min Scan# 1078

Delta R.T. -0.01 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

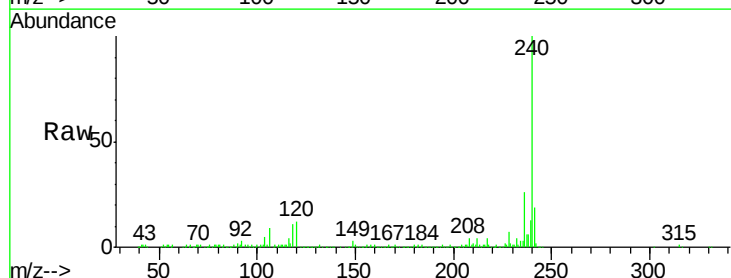
Tgt Ion: 240 Resp: 204268

Ion Ratio Lower Upper

240 100

120 11.7 6.8 10.2#

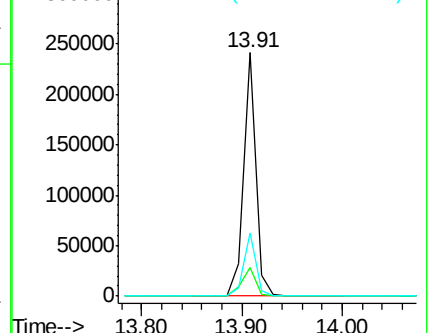
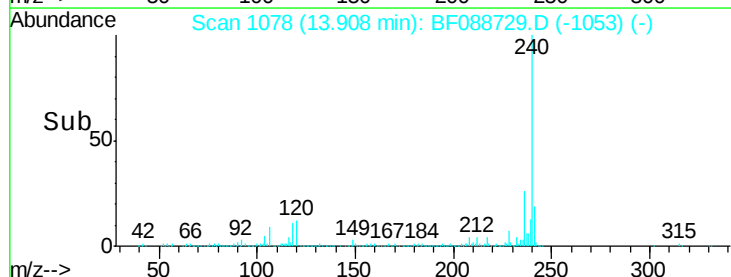
236 25.8 20.2 30.2

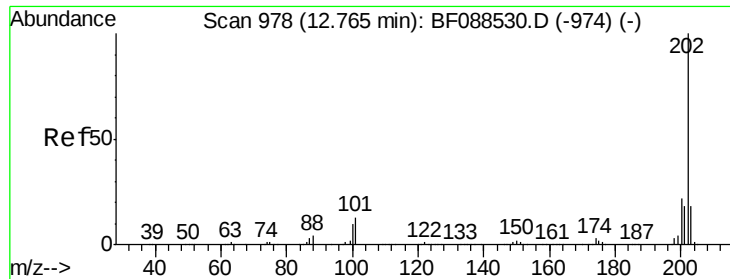


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

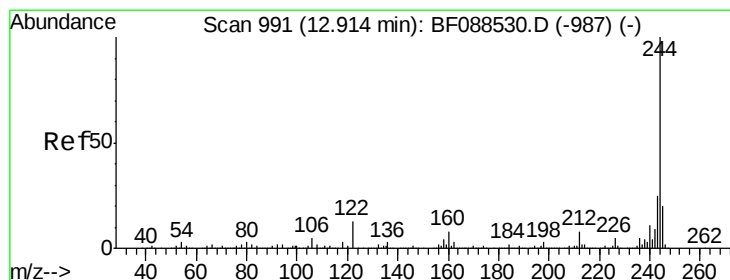
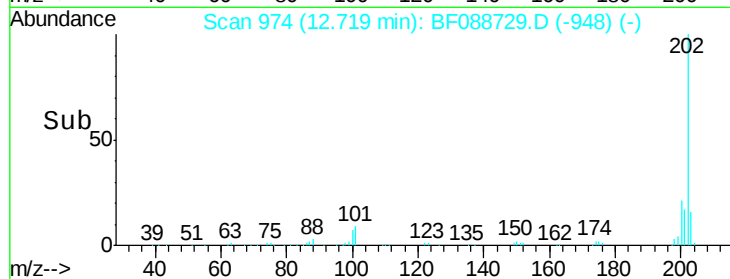
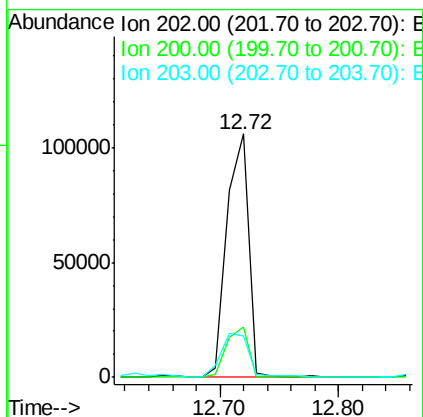
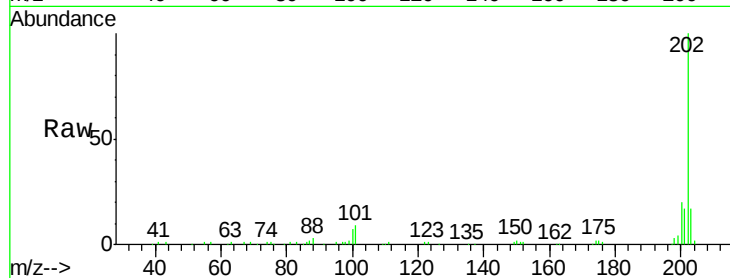




#77
Pyrene
 Concen: 7.75 ng
 RT: 12.72 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: BF088729.D
 Acq: 6 Jul 2016 4:01

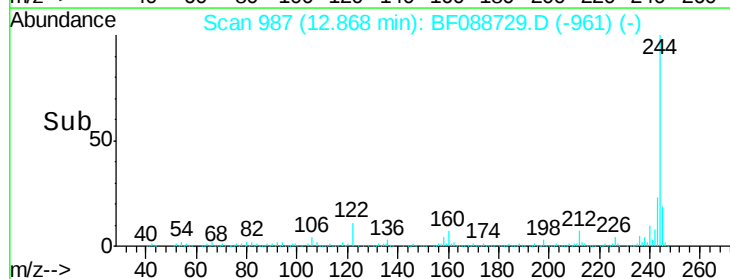
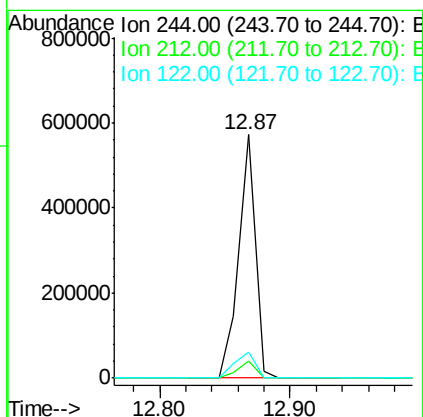
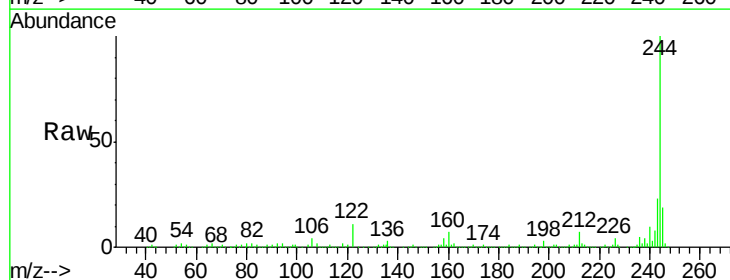
Instrument :
 BNA_F
 ClientSampleId :
 Q6-B5-0-11-C

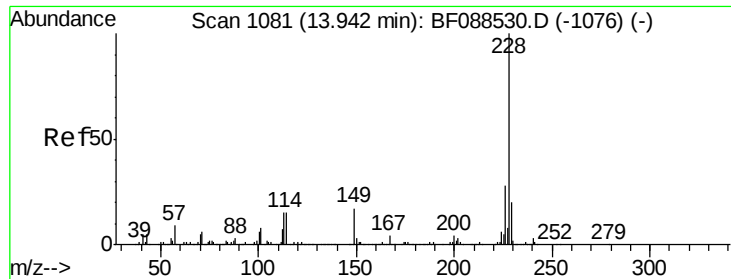
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.4	17.4	26.2
203	16.8	14.5	21.7



#78
Terphenyl-d14
 Concen: 55.06 ng
 RT: 12.87 min Scan# 987
 Delta R.T. 0.00 min
 Lab File: BF088729.D
 Acq: 6 Jul 2016 4:01

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	10.7	11.2	16.8





#80

Benzo(a)anthracene

Concen: 6.33 ng

RT: 13.90 min Scan# 1077

Delta R.T. -0.01 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Instrument :

BNA_F

ClientSampleId :

Q6-B5-0-11-C

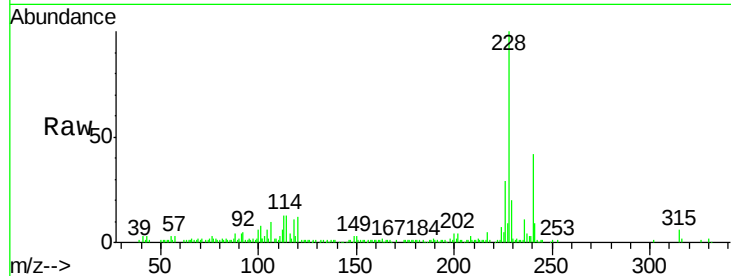
Tgt Ion:228 Resp: 83271

Ion Ratio Lower Upper

228 100

226 28.6 22.3 33.5

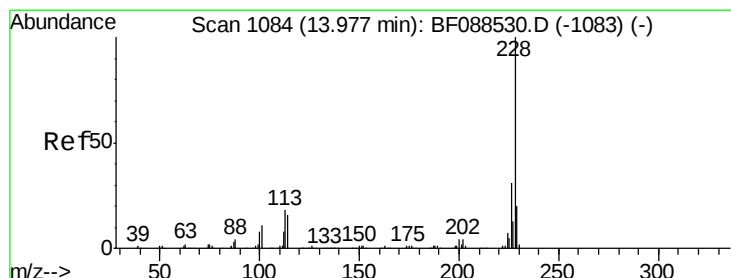
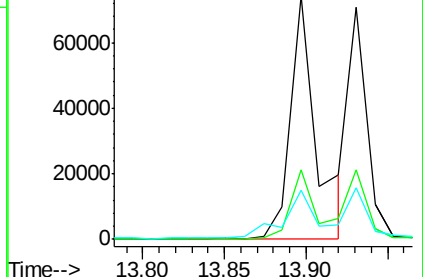
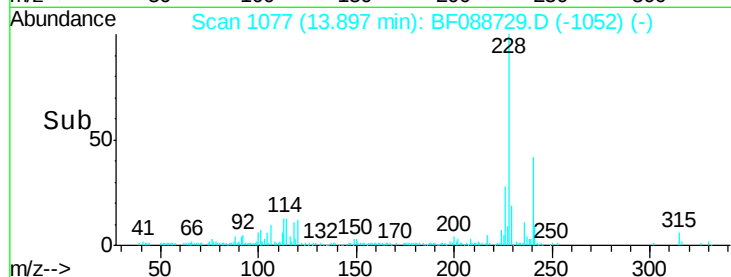
229 20.2 16.0 24.0



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: 4.43 ng

RT: 13.93 min Scan# 1080

Delta R.T. -0.01 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

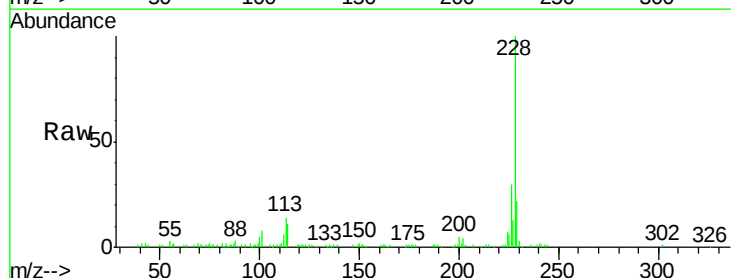
Tgt Ion:228 Resp: 57661

Ion Ratio Lower Upper

228 100

226 29.8 25.4 38.2

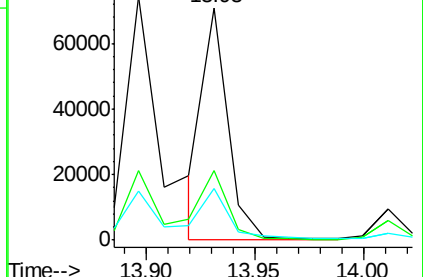
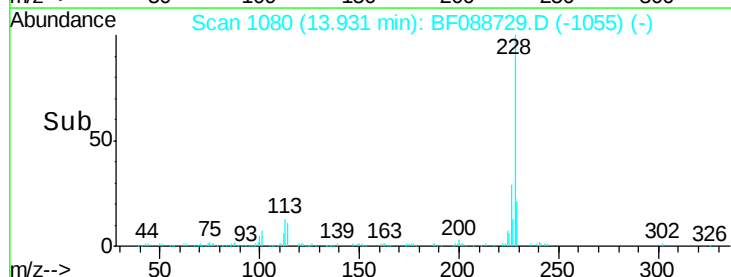
229 22.3 16.3 24.5

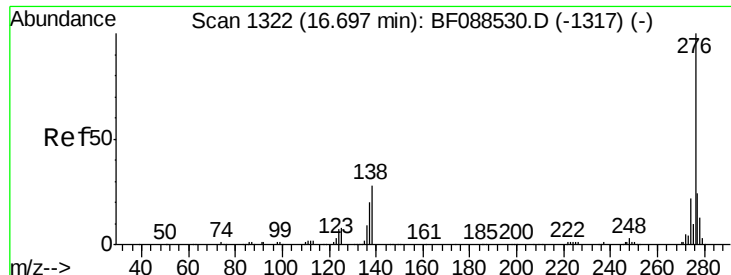


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

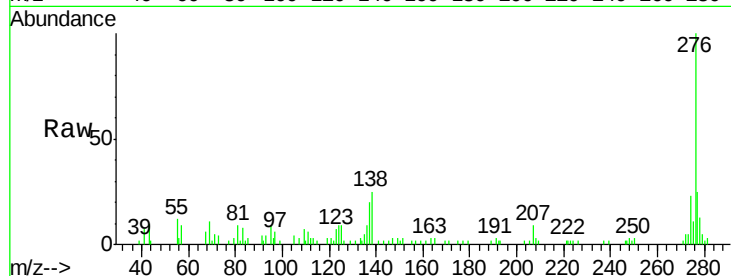




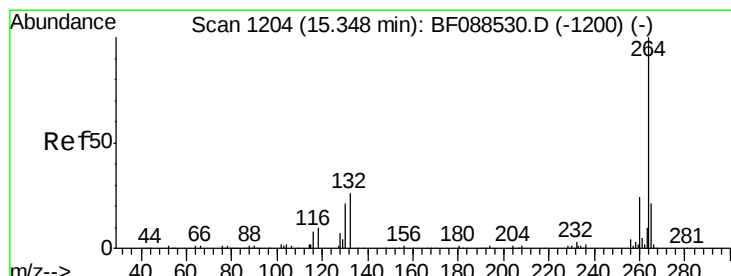
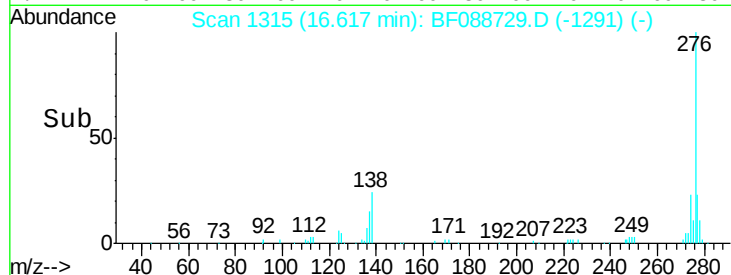
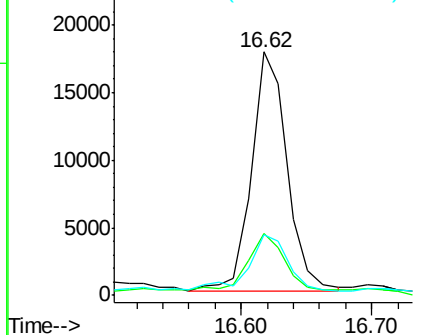
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.35 ng
 RT: 16.62 min Scan# 1315
 Delta R.T. -0.02 min
 Lab File: BF088729.D
 Acq: 6 Jul 2016 4:01

Instrument :
 BNA_F
 ClientSampleId :
 Q6-B5-0-11-C

Tgt Ion: 276 Resp: 33508
 Ion Ratio Lower Upper
 276 100
 138 28.6 0.0 0.0#
 277 28.4 0.0 0.0#

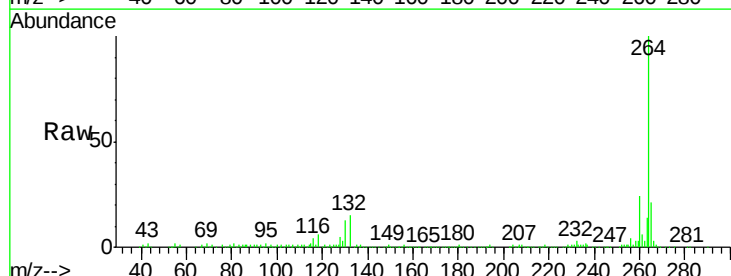


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

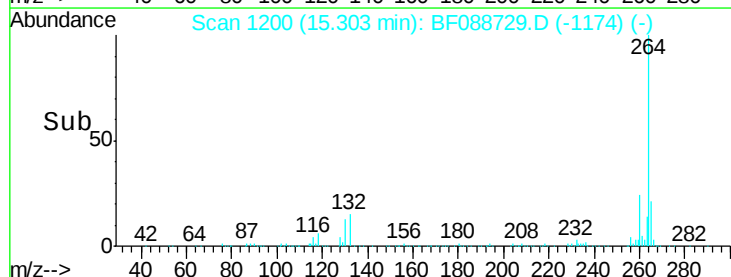
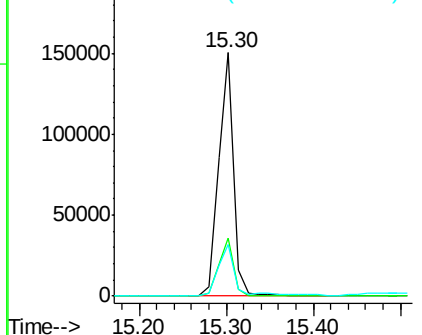


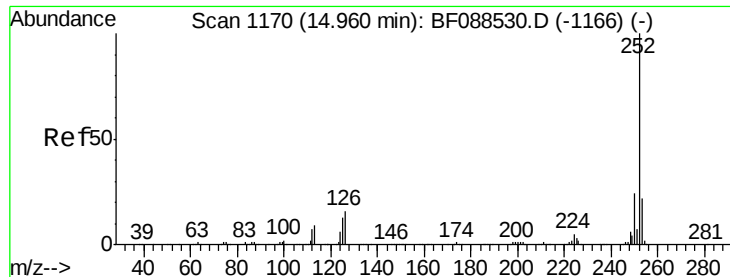
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.30 min Scan# 1200
 Delta R.T. 0.00 min
 Lab File: BF088729.D
 Acq: 6 Jul 2016 4:01

Tgt Ion: 264 Resp: 182042
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.2 28.8
 265 21.4 16.9 25.3



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: 10.38 ng

RT: 14.90 min Scan# 1165

Delta R.T. -0.01 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Instrument :

BNA_F

ClientSampleId :

Q6-B5-0-11-C

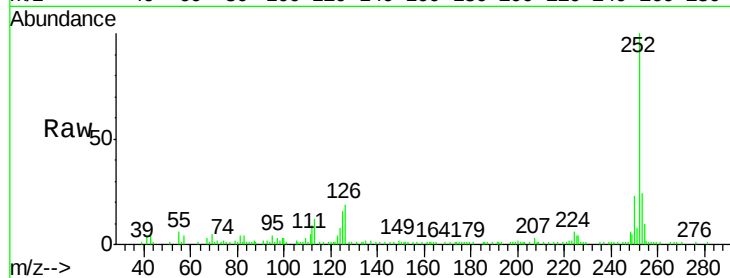
Tgt Ion:252 Resp: 118541

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.2

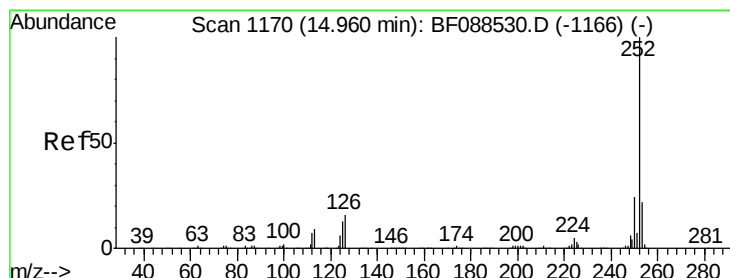
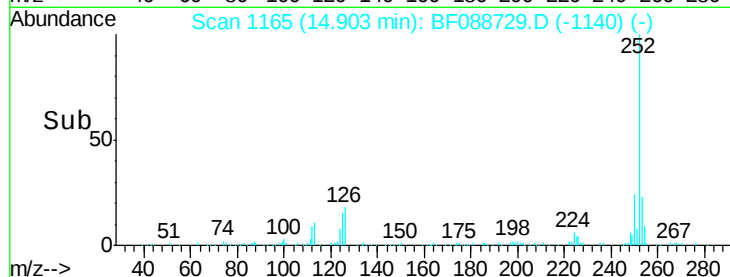
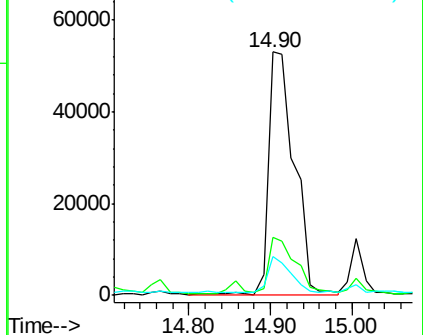
125 15.7 7.1 10.7#



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: 11.92 ng

RT: 14.90 min Scan# 1165

Delta R.T. -0.03 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

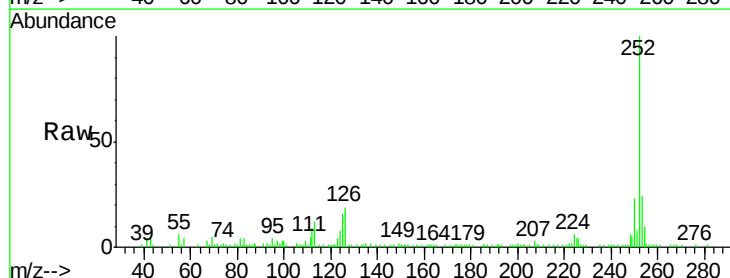
Tgt Ion:252 Resp: 118541

Ion Ratio Lower Upper

252 100

253 23.7 18.0 27.0

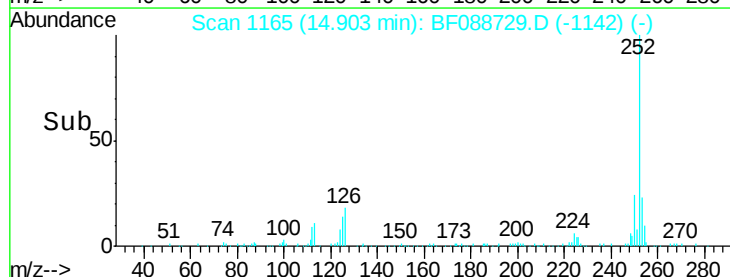
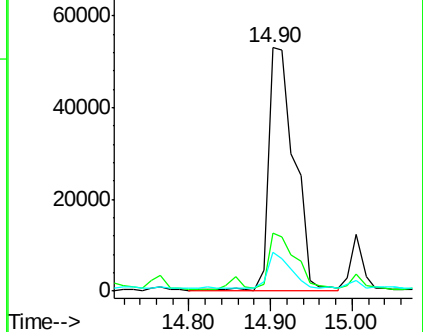
125 15.7 11.2 16.8

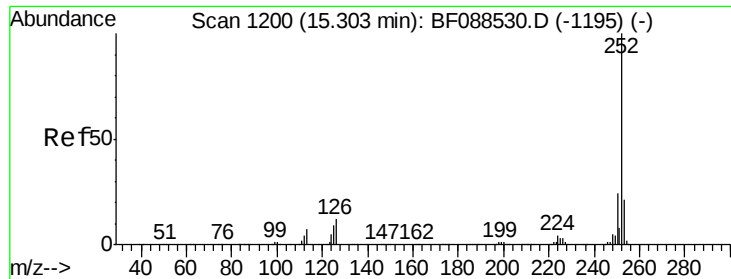


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 6.01 ng

RT: 15.23 min Scan# 1194

Delta R.T. -0.01 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

Instrument :

BNA_F

ClientSampleId :

Q6-B5-0-11-C

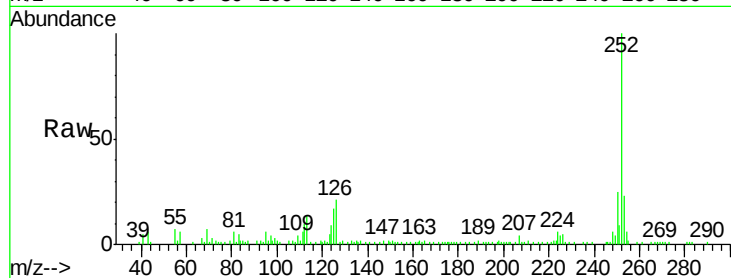
Tgt Ion:252 Resp: 58109

Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

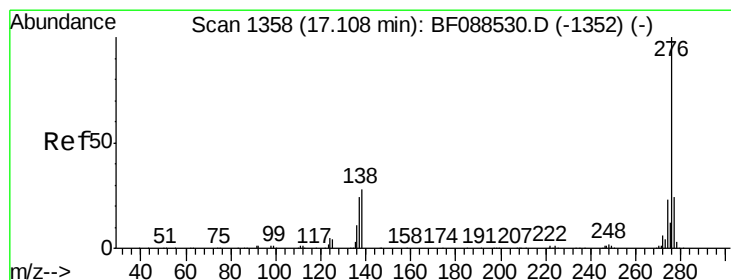
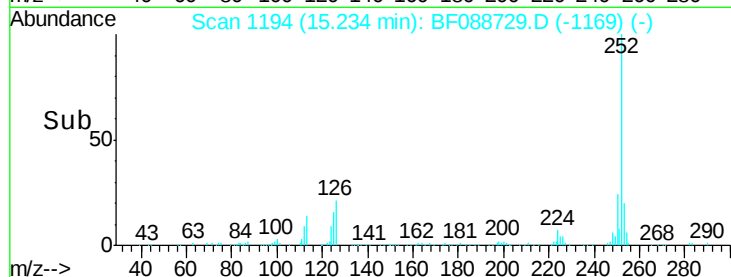
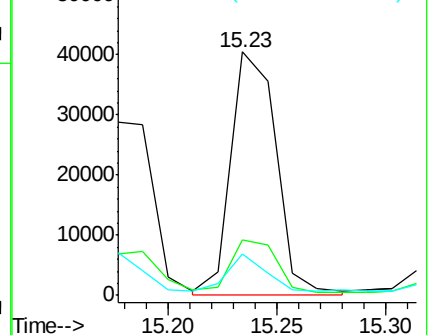
125 17.0 12.5 18.7



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: 4.16 ng

RT: 17.02 min Scan# 1350

Delta R.T. -0.02 min

Lab File: BF088729.D

Acq: 6 Jul 2016 4:01

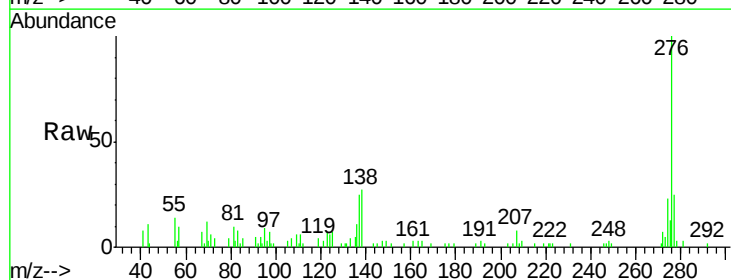
Tgt Ion:276 Resp: 34783

Ion Ratio Lower Upper

276 100

277 25.2 18.9 28.3

138 26.8 21.4 32.2



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

