

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060415\
 Data File : BF079722.D
 Acq On : 5 Jun 2015 2:47
 Operator : TP/IZ
 Sample : G2464-03
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-22AS

Quant Time: Jun 06 03:32:57 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jun 06 03:31:13 2015
 Response via : Initial Calibration

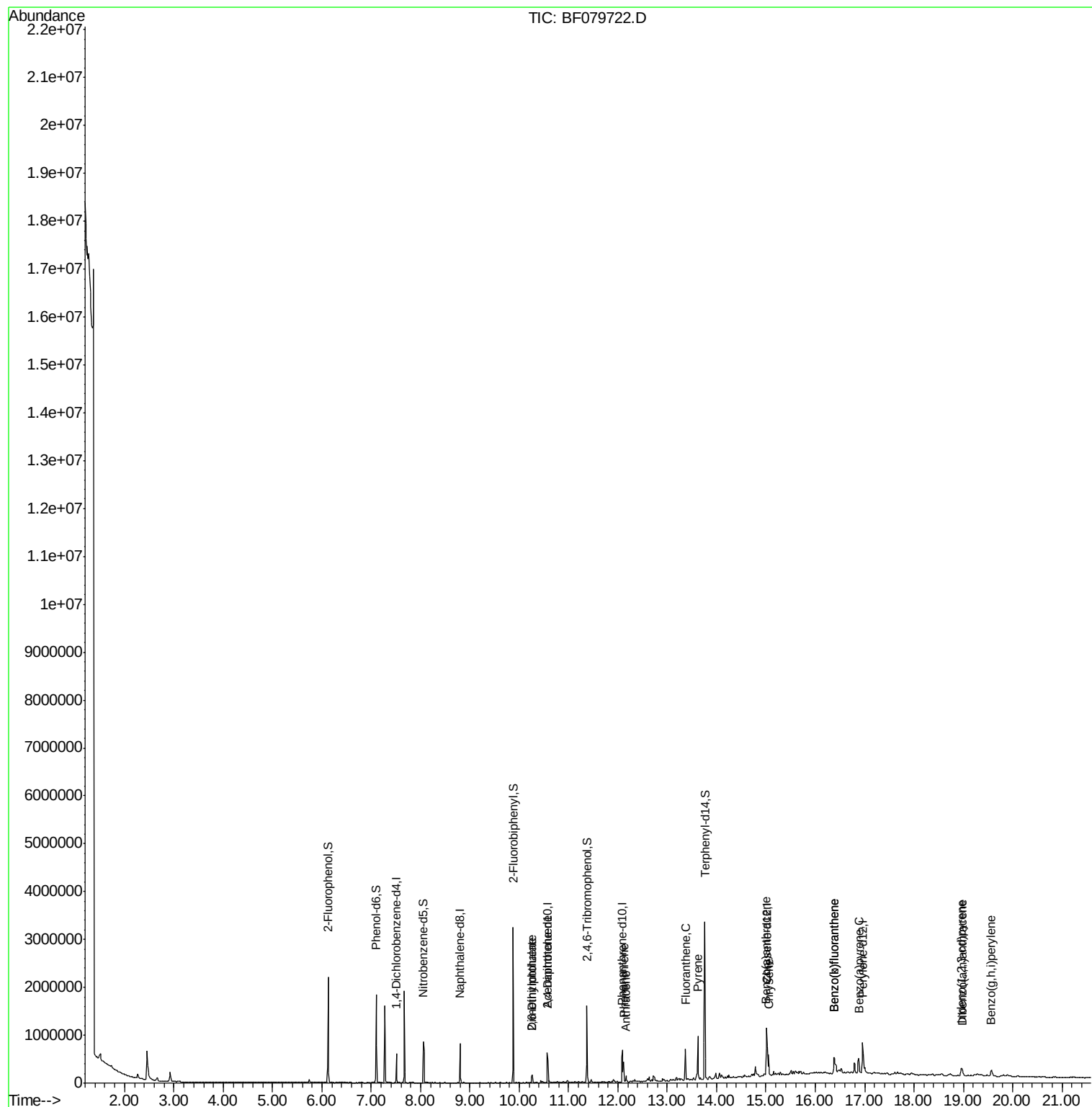
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	82842	20.00	ng	0.00
21) Naphthalene-d8	8.80	136	328794	20.00	ng	0.00
38) Acenaphthene-d10	10.57	164	161968	20.00	ng	-0.01
63) Phenanthrene-d10	12.09	188	334057	20.00	ng	0.01
75) Chrysene-d12	15.02	240	373049	20.00	ng	0.03
86) Perylene-d12	16.96	264	376185	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	516938	107.00	ng	0.00
7) Phenol-d6	7.10	99	666720	106.01	ng	0.00
23) Nitrobenzene-d5	8.06	82	360088	66.68	ng	-0.01
41) 2,4,6-Tribromophenol	11.37	330	172691	118.73	ng	0.00
44) 2-Fluorobiphenyl	9.87	172	880112	78.67	ng	0.00
78) Terphenyl-d14	13.76	244	1060153	66.95	ng	0.02
Target Compounds						Qvalue
49) Dimethylphthalate	10.26	163	88889	7.12	ng	# 97
50) 2,6-Dinitrotoluene	10.26	165	980	3.44	ng	# 30
56) 2,4-Dinitrotoluene	10.57	165	20312	7.68	ng	# 33
70) Phenanthrene	12.11	178	179484	9.24	ng	98
71) Anthracene	12.16	178	60910	3.17	ng	100
74) Fluoranthene	13.37	202	385370	18.28	ng	94
77) Pyrene	13.62	202	391568	16.89	ng	98
80) Benzo(a)anthracene	15.01	228	233732	10.25	ng	100
82) Chrysene	15.05	228	192902	9.04	ng	97
85) Indeno(1,2,3-cd)pyrene	18.96	276	152332	6.32	ng	93
87) Benzo(b)fluoranthene	16.38	252	366650	15.11	ng	# 96
88) Benzo(k)fluoranthene	16.38	252	366650	15.83	ng	99
89) Benzo(a)pyrene	16.88	252	207427	9.36	ng	97
90) Dibenzo(a,h)anthracene	18.98	278	50324	2.46	ng	# 92
91) Benzo(g,h,i)perylene	19.57	276	154549	7.38	ng	98

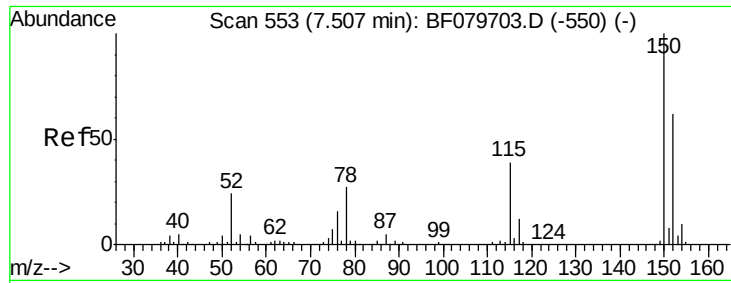
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.51 min Scan# 553

Delta R.T. 0.00 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

Instrument :

BNA_F

ClientSampleId :

SB-22AS

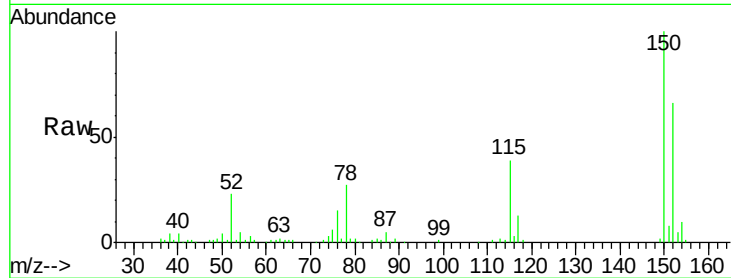
Tgt Ion:152 Resp: 82842

Ion Ratio Lower Upper

152 100

150 152.6 128.1 192.1

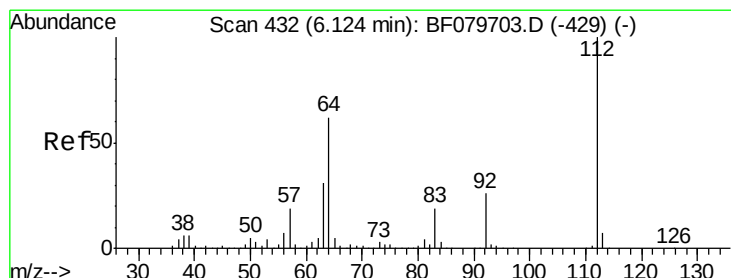
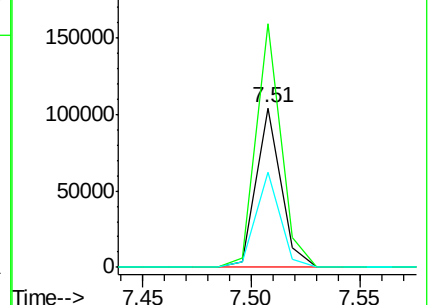
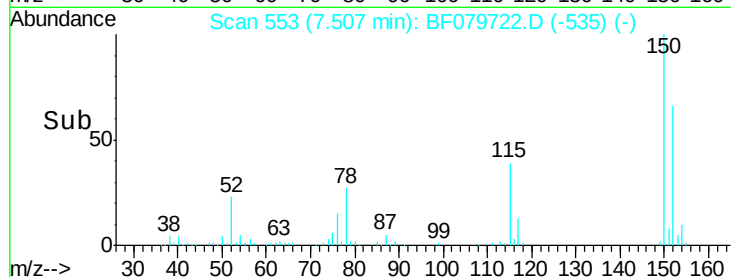
115 59.6 49.7 74.5



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: 107.00 ng

RT: 6.12 min Scan# 432

Delta R.T. 0.00 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

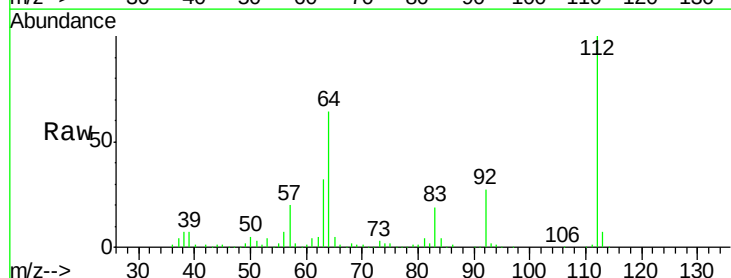
Tgt Ion:112 Resp: 516938

Ion Ratio Lower Upper

112 100

64 63.6 49.6 74.4

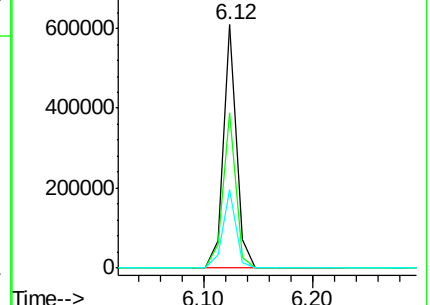
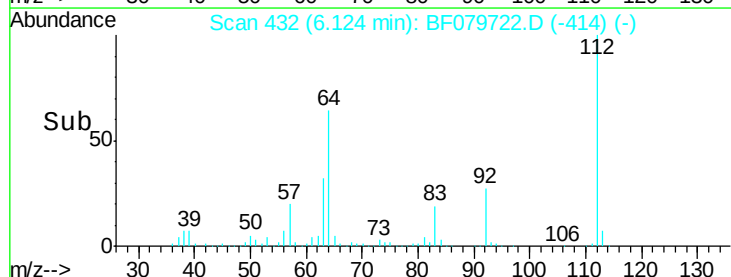
63 32.4 24.9 37.3

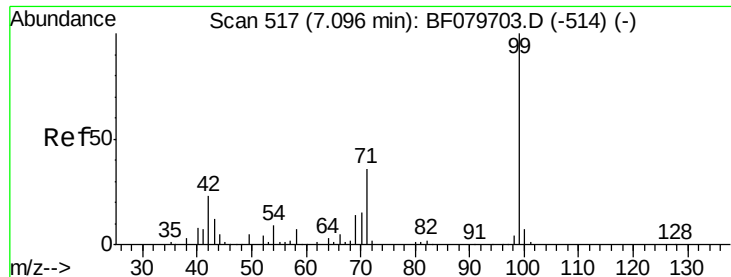


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 106.01 ng

RT: 7.10 min Scan# 517

Delta R.T. 0.00 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

Instrument :

BNA_F

ClientSampleId :

SB-22AS

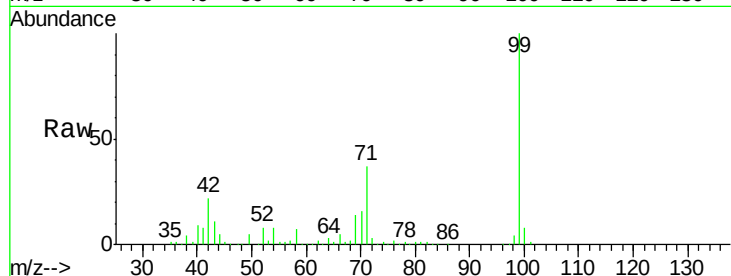
Tgt Ion: 99 Resp: 666720

Ion Ratio Lower Upper

99 100

42 22.5 18.0 27.0

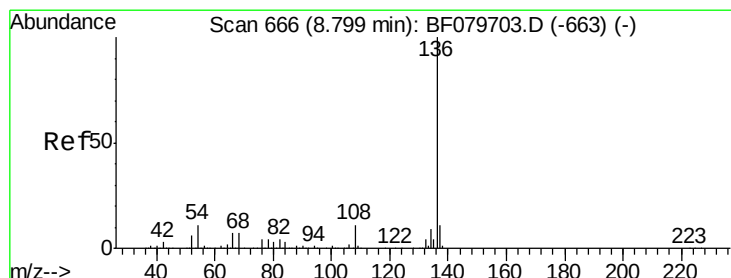
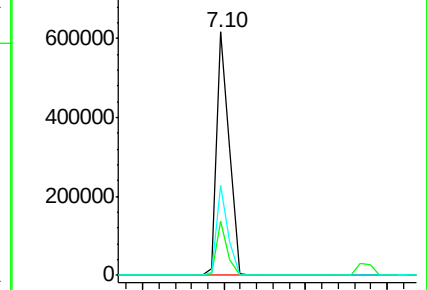
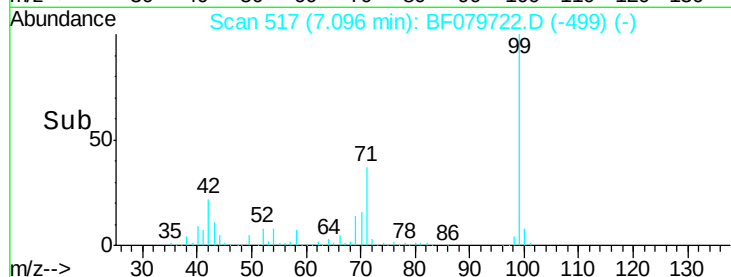
71 36.8 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.80 min Scan# 666

Delta R.T. 0.00 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

Tgt Ion: 136 Resp: 328794

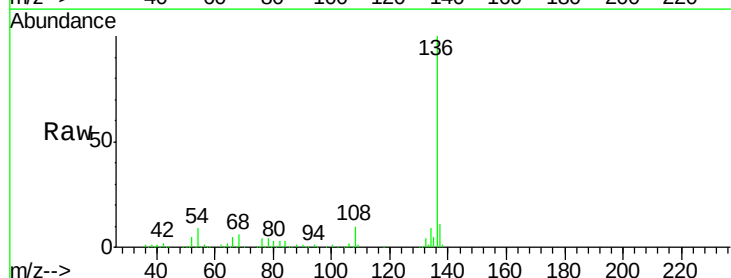
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 8.5 8.7 13.1#

68 6.2 5.8 8.8

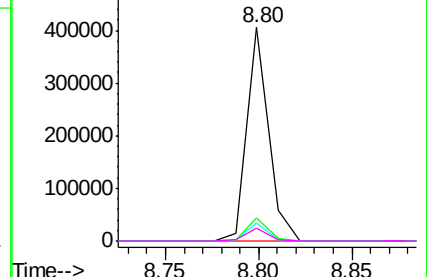
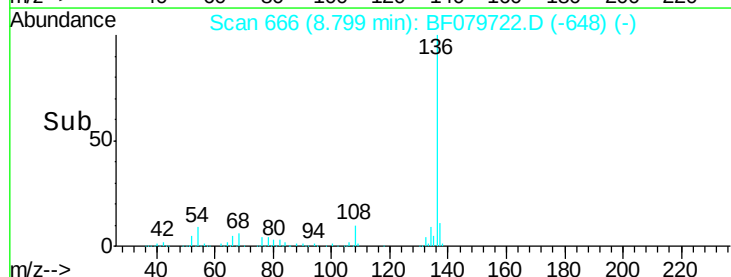


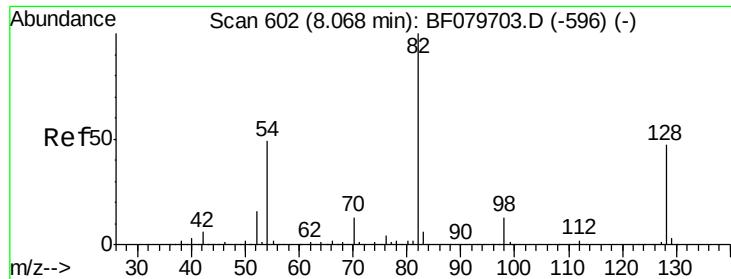
Abundance Ion 136.00 (135.70 to 136.70): E

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

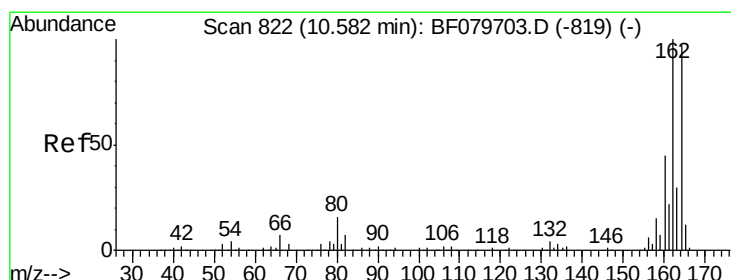
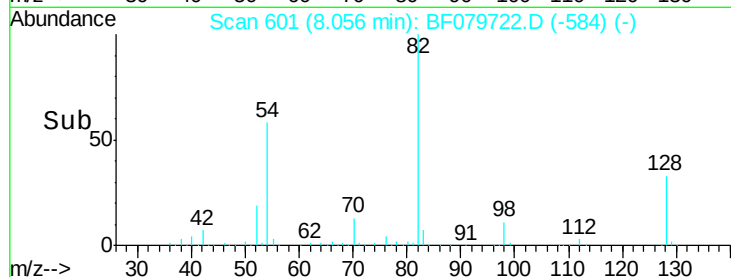
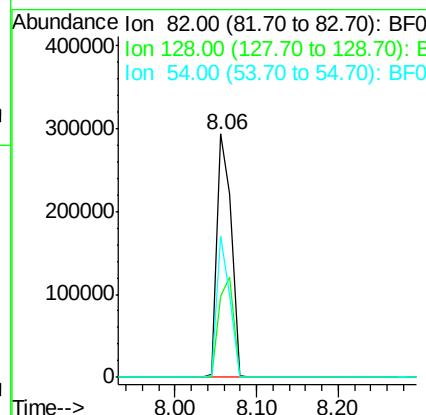
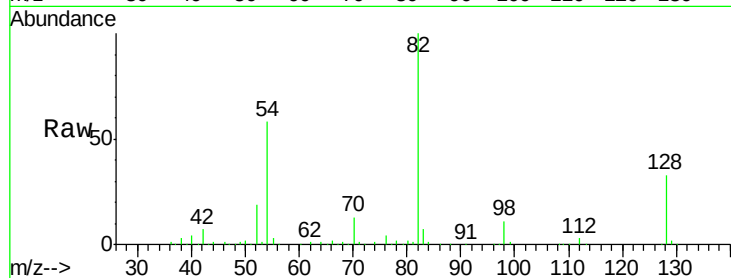




#23
 Nitrobenzene-d5
 Concen: 66.68 ng
 RT: 8.06 min Scan# 601
 Delta R.T. -0.01 min
 Lab File: BF079722.D
 Acq: 5 Jun 2015 2:47

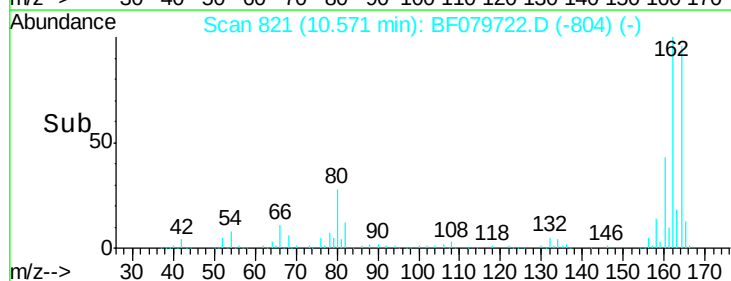
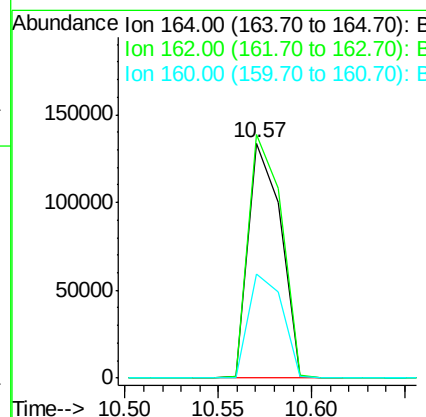
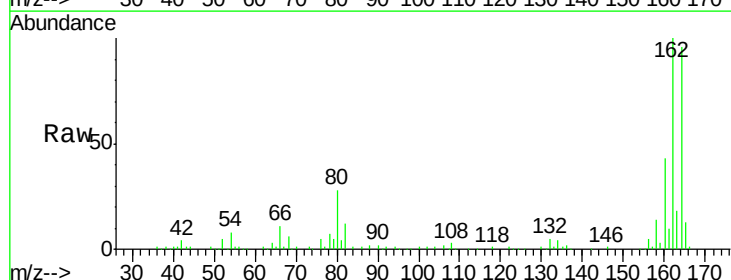
Instrument :
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 SB-22AS

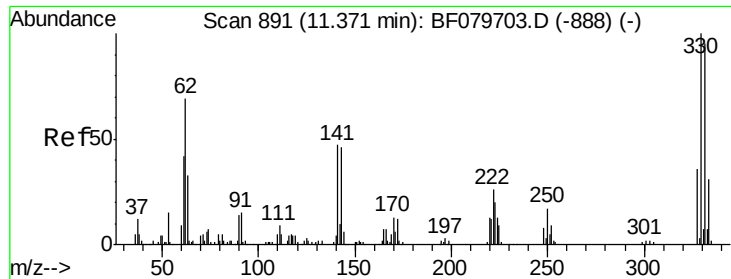
Tgt Ion: 82 Resp: 360088
 Ion Ratio Lower Upper
 82 100
 128 33.5 37.6 56.4#
 54 58.0 39.4 59.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.57 min Scan# 821
 Delta R.T. -0.01 min
 Lab File: BF079722.D
 Acq: 5 Jun 2015 2:47

Tgt Ion: 164 Resp: 161968
 Ion Ratio Lower Upper
 164 100
 162 103.7 82.6 123.8
 160 44.6 36.8 55.2

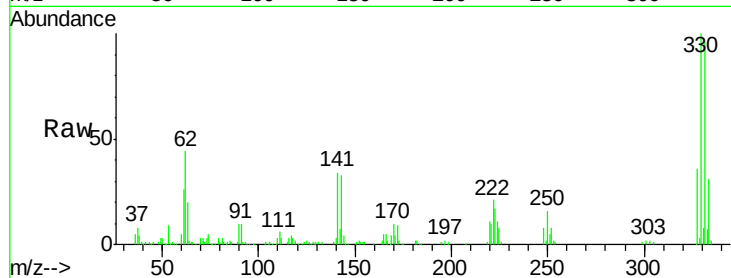




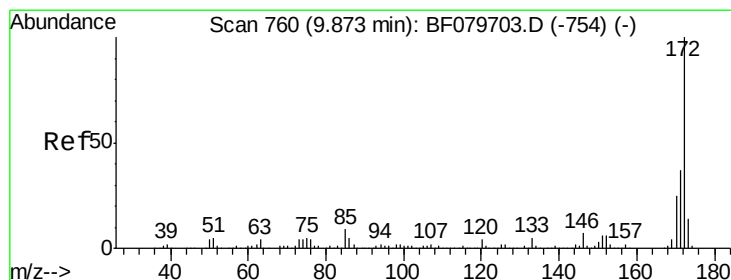
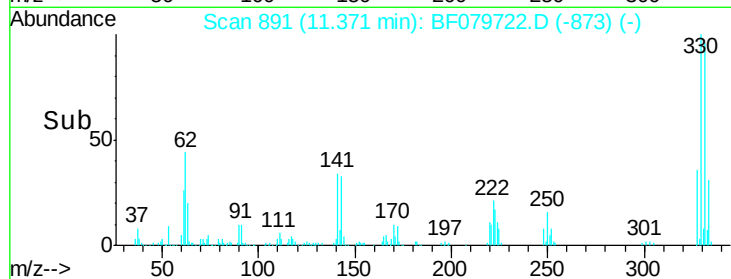
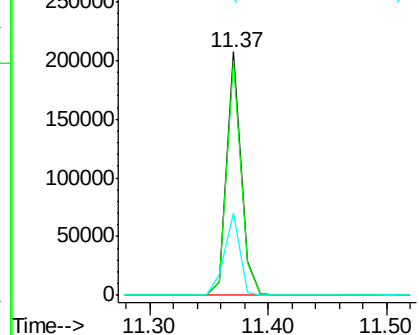
#41
 2,4,6-Tribromophenol
 Concen: 118.73 ng
 RT: 11.37 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: BF079722.D
 Acq: 5 Jun 2015 2:47

Instrument :
 BNA_F
 ClientSampleId :
 SB-22AS

Tgt Ion:330 Resp: 172691
 Ion Ratio Lower Upper
 330 100
 332 96.4 77.4 116.0
 141 36.7 30.2 45.2

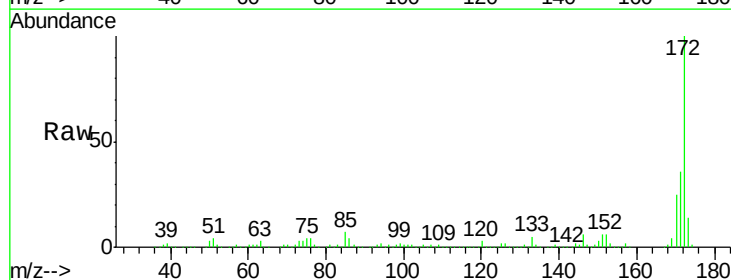


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

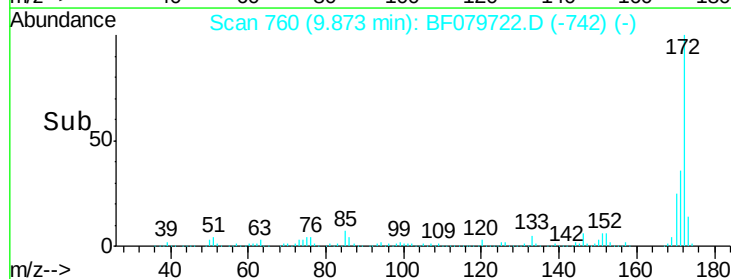
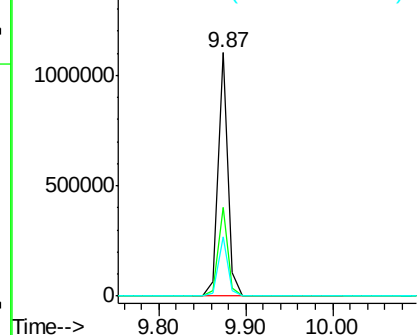


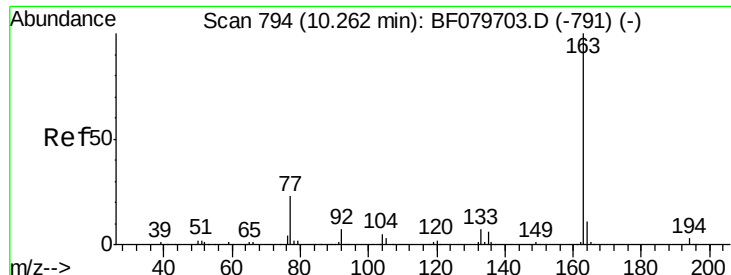
#44
 2-Fluorobiphenyl
 Concen: 78.67 ng
 RT: 9.87 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: BF079722.D
 Acq: 5 Jun 2015 2:47

Tgt Ion:172 Resp: 880112
 Ion Ratio Lower Upper
 172 100
 171 36.2 29.4 44.0
 170 24.5 19.7 29.5



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





#49

Dimethylphthalate

Concen: 7.12 ng

RT: 10.26 min Scan# 794

Delta R.T. 0.00 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

Instrument :

BNA_F

ClientSampleId :

SB-22AS

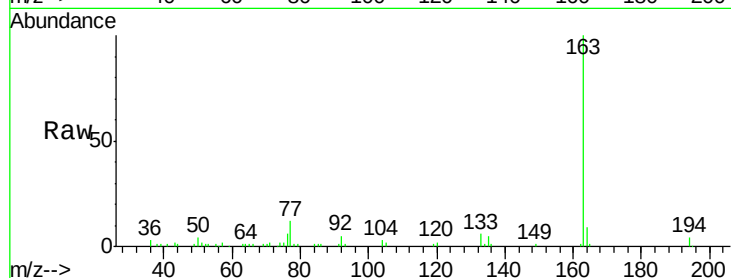
Tgt Ion:163 Resp: 88889

Ion Ratio Lower Upper

163 100

194 4.0 2.6 3.8#

164 9.3 8.5 12.7



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

120000

100000

80000

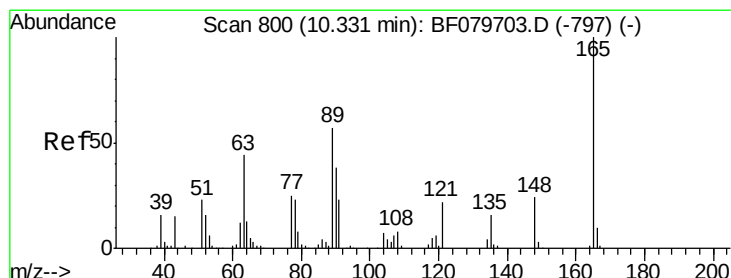
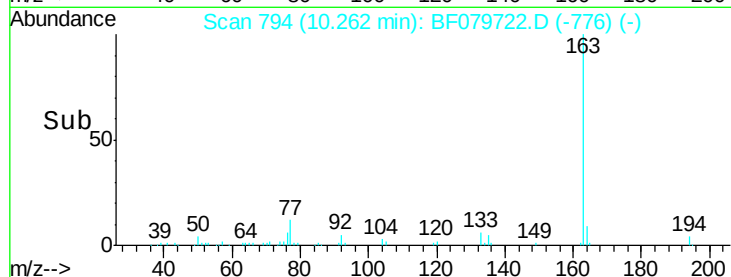
60000

40000

20000

0

Time--> 10.20 10.25 10.30



#50

2,6-Dinitrotoluene

Concen: 3.44 ng

RT: 10.26 min Scan# 794

Delta R.T. -0.07 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

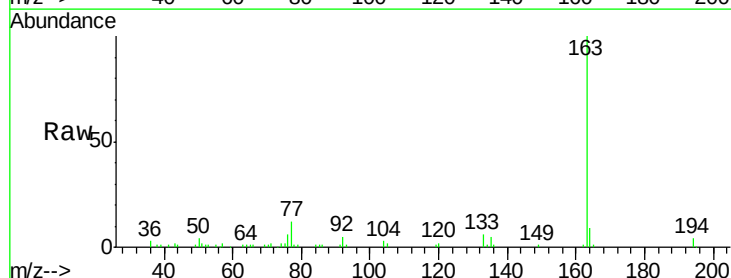
Tgt Ion:165 Resp: 980

Ion Ratio Lower Upper

165 100

63 101.7 45.2 67.8#

89 0.0 45.9 68.9#



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

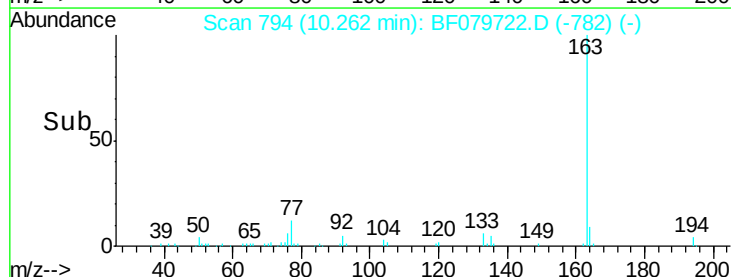
1500

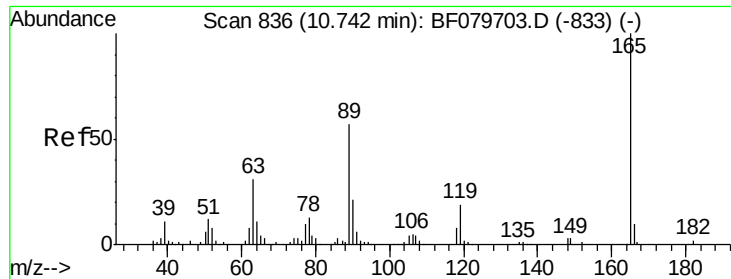
1000

500

0

Time--> 10.20 10.25 10.30





#56

2,4-Dinitrotoluene

Concen: 7.68 ng

RT: 10.57 min Scan# 821

Delta R.T. -0.17 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

Instrument :

BNA_F

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SB-22AS

Tgt Ion:165 Resp: 20312

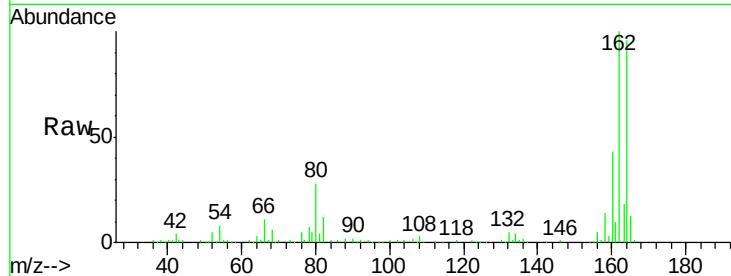
Ion Ratio Lower Upper

165 100

63 1.7 24.7 37.1#

89 0.0 45.7 68.5#

182 0.0 1.8 2.8#

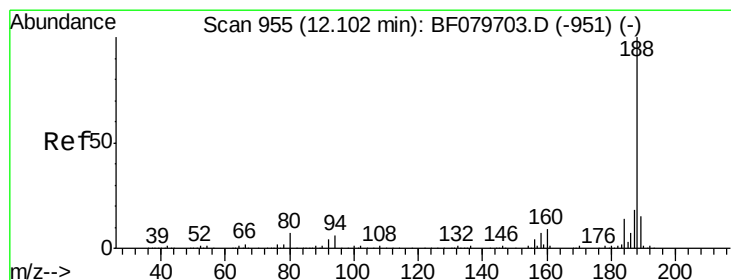
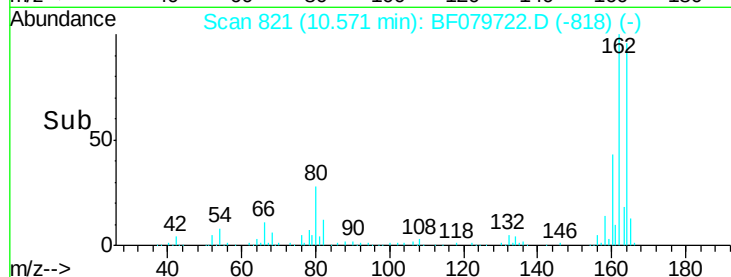
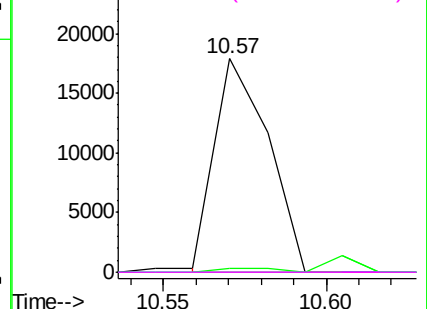


Abundance Ion 165.00 (164.70 to 165.70): E

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: 12.09 min Scan# 954

Delta R.T. 0.01 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

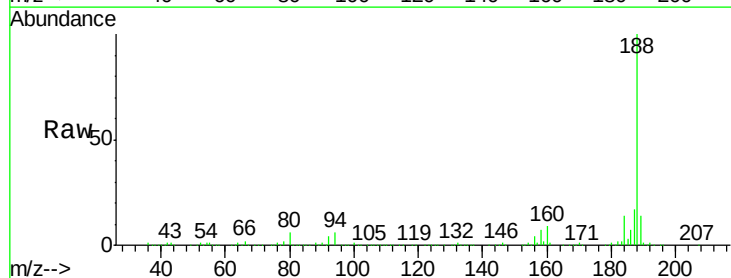
Tgt Ion:188 Resp: 334057

Ion Ratio Lower Upper

188 100

94 6.4 5.0 7.4

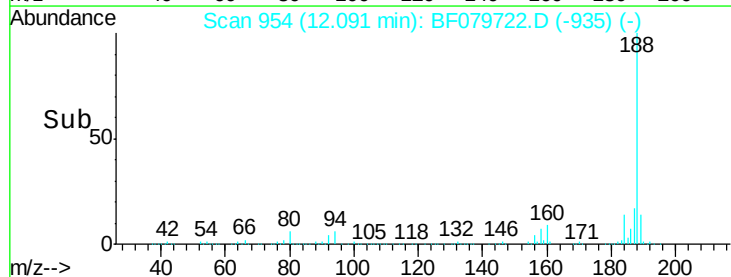
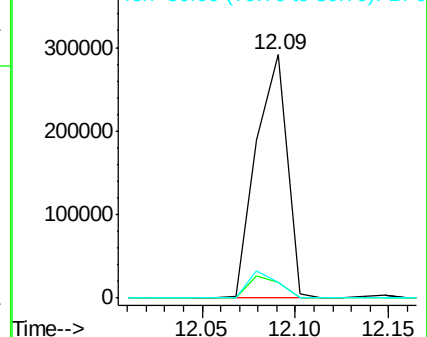
80 6.4 5.3 7.9

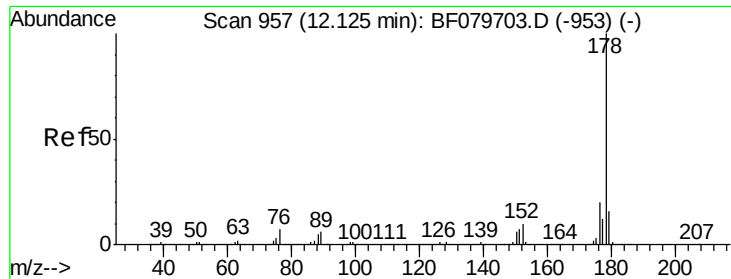


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

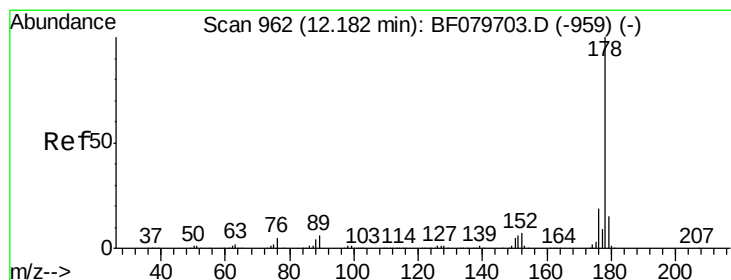
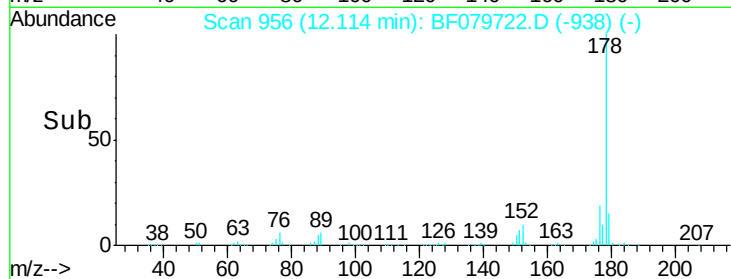
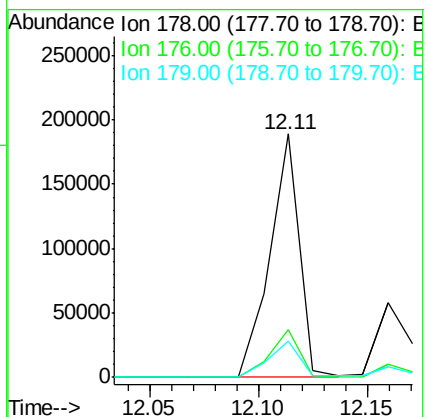
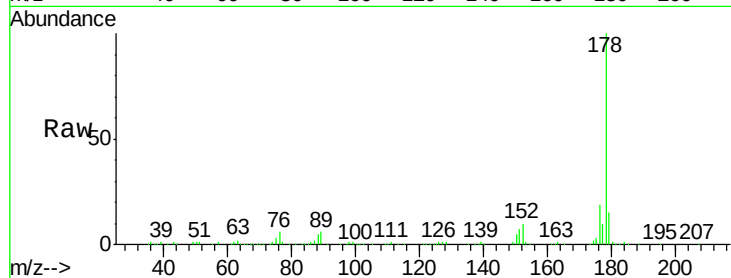




#70
Phenanthrene
Concen: 9.24 ng
RT: 12.11 min Scan# 956
Delta R.T. 0.00 min
Lab File: BF079722.D
Acq: 5 Jun 2015 2:47

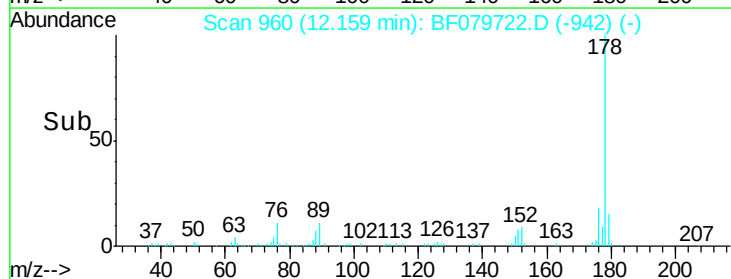
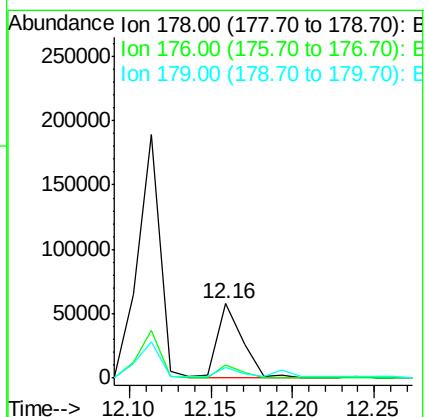
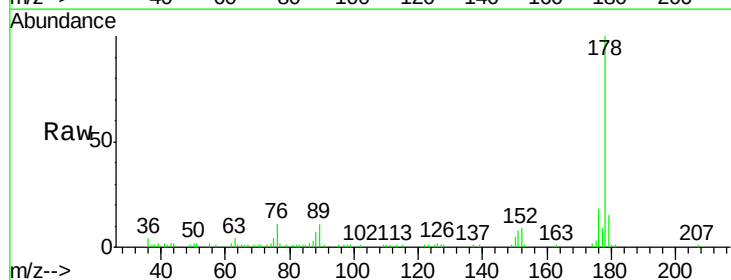
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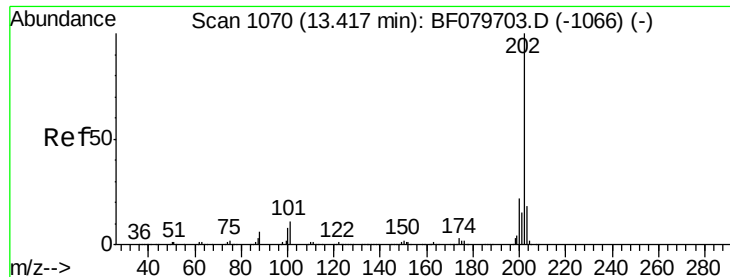
Tgt Ion:178 Resp: 179484
Ion Ratio Lower Upper
178 100
176 19.4 16.2 24.4
179 15.0 12.6 19.0



#71
Anthracene
Concen: 3.17 ng
RT: 12.16 min Scan# 960
Delta R.T. 0.00 min
Lab File: BF079722.D
Acq: 5 Jun 2015 2:47

Tgt Ion:178 Resp: 60910
Ion Ratio Lower Upper
178 100
176 18.3 14.8 22.2
179 15.2 12.2 18.2





#74

Fluoranthene

Concen: 18.28 ng

RT: 13.37 min Scan# 1066

Delta R.T. 0.02 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

Instrument :

BNA_F

ClientSampleId :

SB-22AS

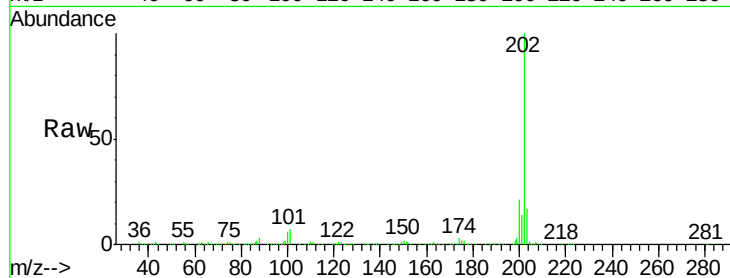
Tgt Ion:202 Resp: 385370

Ion Ratio Lower Upper

202 100

101 7.2 0.0 31.3

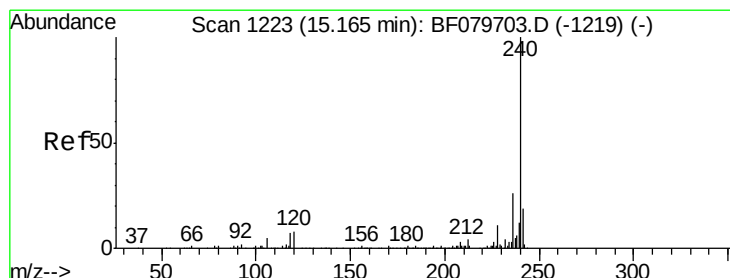
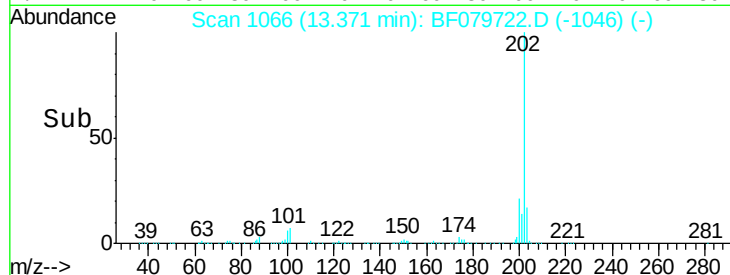
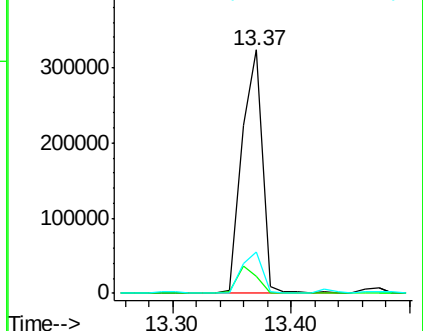
203 16.8 0.0 38.4



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: 15.02 min Scan# 1210

Delta R.T. 0.03 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

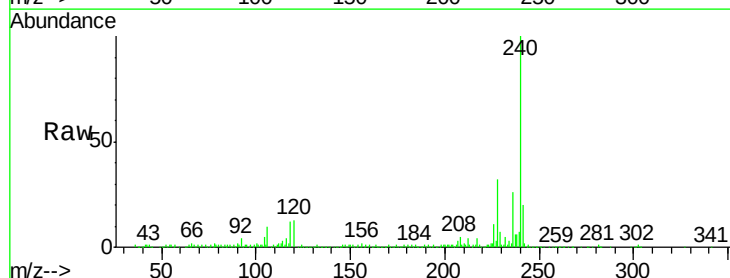
Tgt Ion:240 Resp: 373049

Ion Ratio Lower Upper

240 100

120 13.4 6.2 9.2#

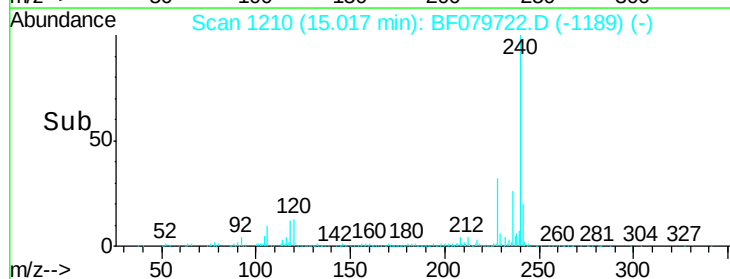
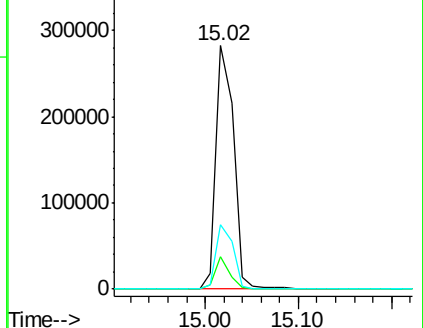
236 26.3 21.0 31.4

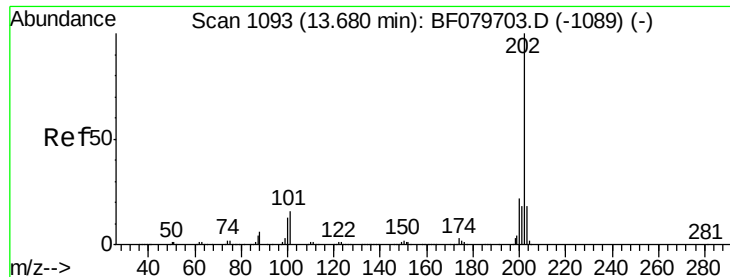


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

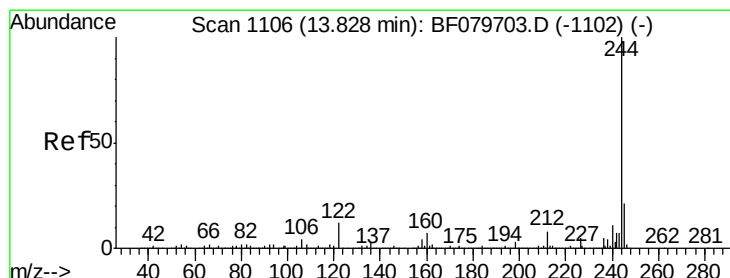
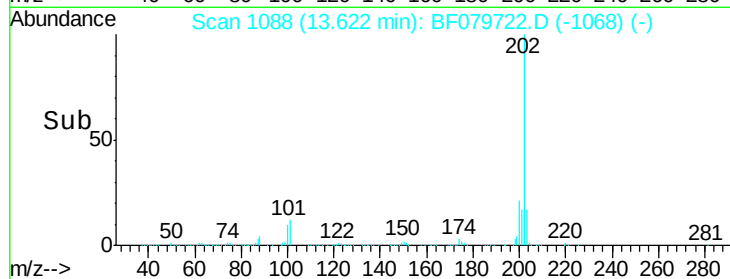
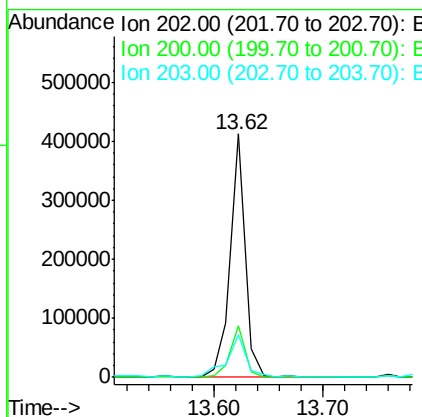
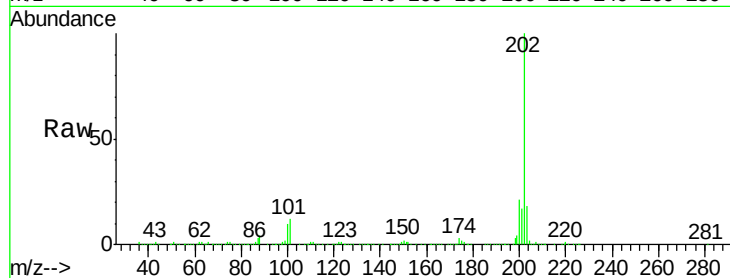




#77
 Pyrene
 Concen: 16.89 ng
 RT: 13.62 min Scan# 1088
 Delta R.T. 0.02 min
 Lab File: BF079722.D
 Acq: 5 Jun 2015 2:47

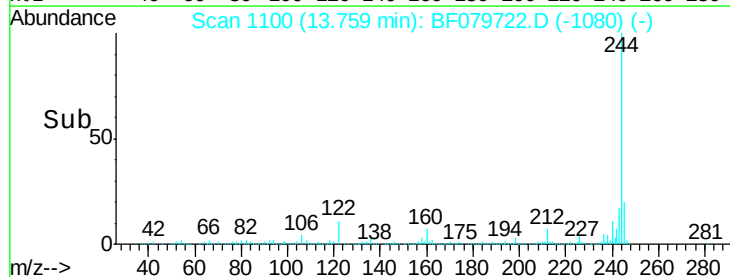
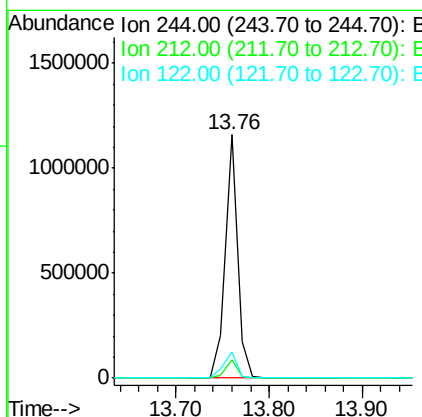
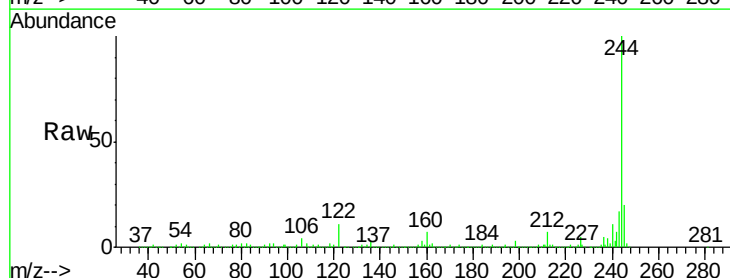
Instrument :
 BNA_F
 ClientSampleId :
 SB-22AS

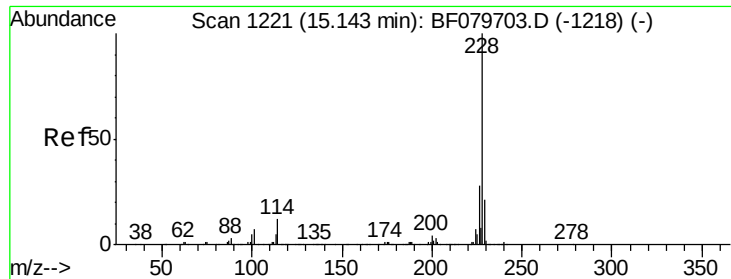
Tgt Ion:202 Resp: 391568
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.5 26.3
 203 17.5 14.8 22.2



#78
 Terphenyl-d14
 Concen: 66.95 ng
 RT: 13.76 min Scan# 1100
 Delta R.T. 0.02 min
 Lab File: BF079722.D
 Acq: 5 Jun 2015 2:47

Tgt Ion:244 Resp: 1060153
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.1 9.1
 122 10.6 9.3 13.9





#80

Benzo(a)anthracene

Concen: 10.25 ng

RT: 15.01 min Scan# 1209

Delta R.T. 0.03 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

Instrument :

BNA_F

ClientSampleId :

SB-22AS

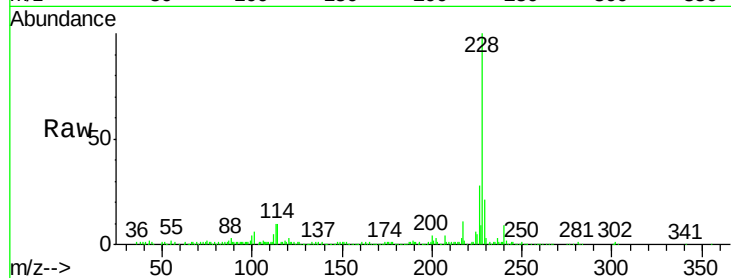
Tgt Ion:228 Resp: 233732

Ion Ratio Lower Upper

228 100

226 27.9 22.2 33.4

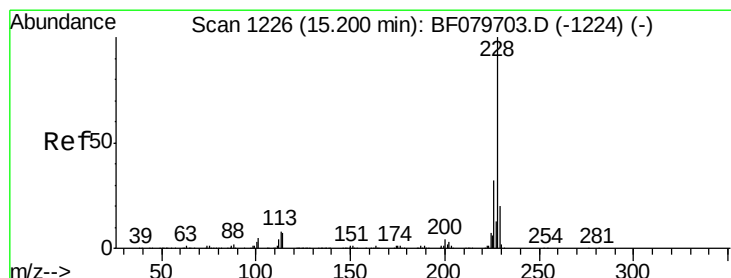
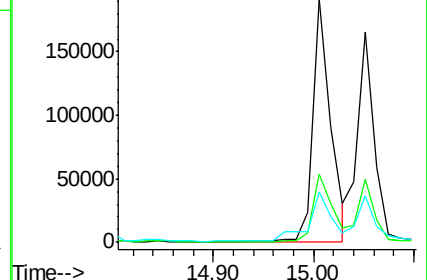
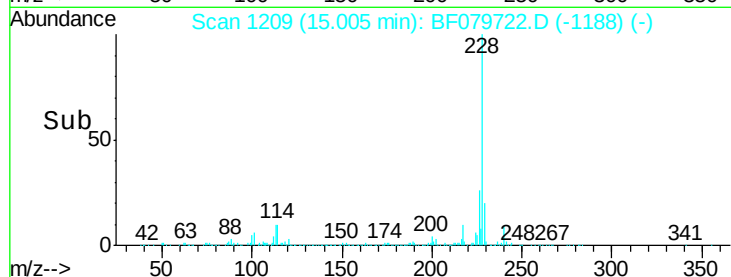
229 20.6 16.6 25.0



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: 9.04 ng

RT: 15.05 min Scan# 1213

Delta R.T. 0.03 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

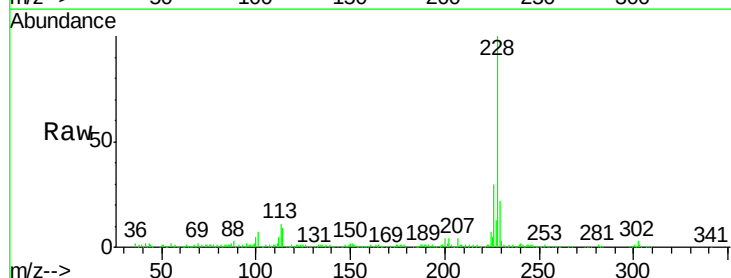
Tgt Ion:228 Resp: 192902

Ion Ratio Lower Upper

228 100

226 30.2 25.2 37.8

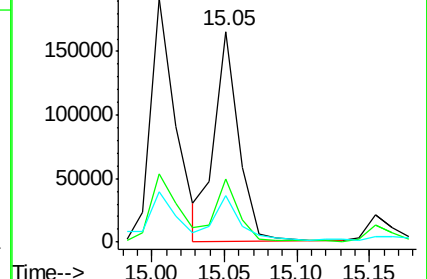
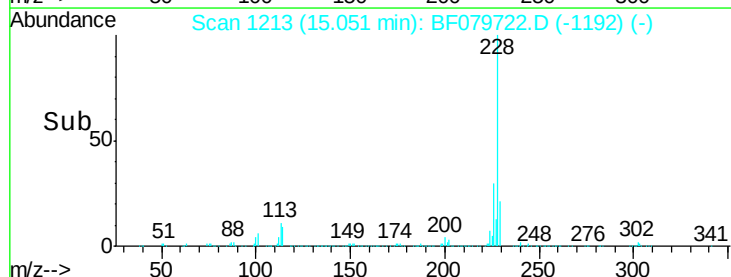
229 22.3 16.2 24.4

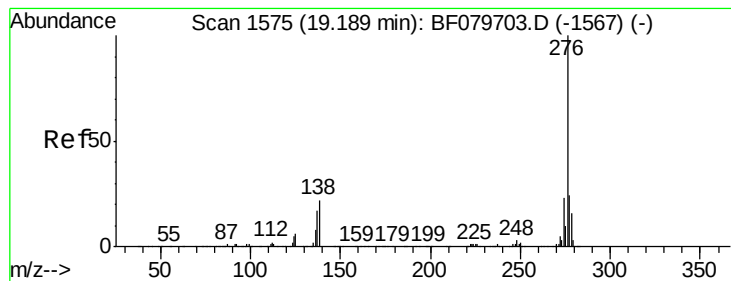


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 6.32 ng

RT: 18.96 min Scan# 1555

Delta R.T. 0.03 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

Instrument :

BNA_F

ClientSampleId :

SB-22AS

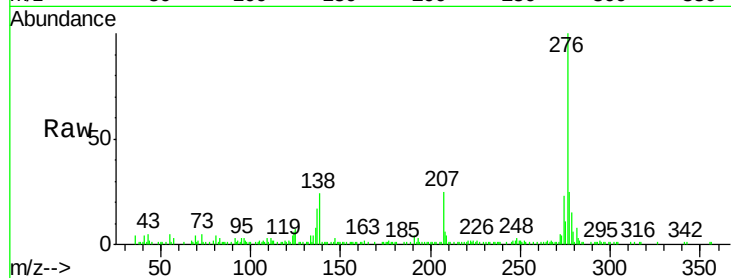
Tgt Ion: 276 Resp: 152332

Ion Ratio Lower Upper

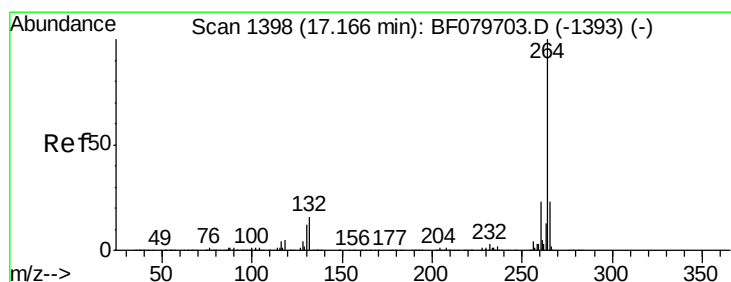
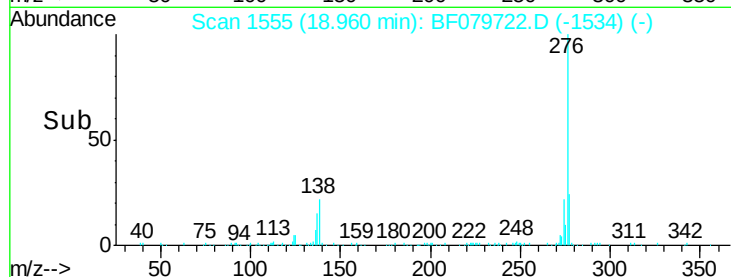
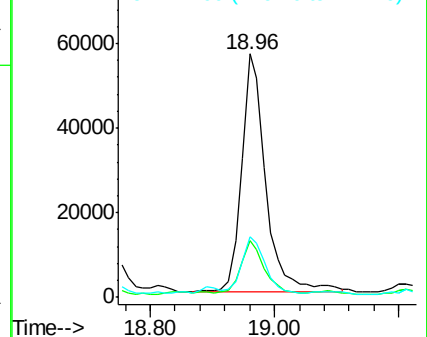
276 100

138 21.7 20.8 31.2

277 22.5 20.0 30.0



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: 16.96 min Scan# 1380

Delta R.T. 0.05 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

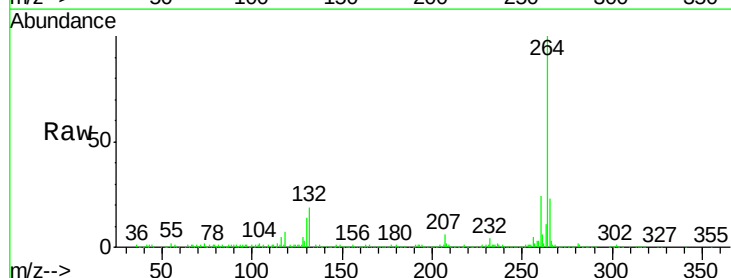
Tgt Ion: 264 Resp: 376185

Ion Ratio Lower Upper

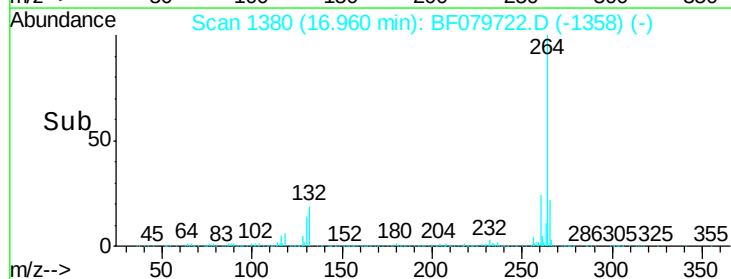
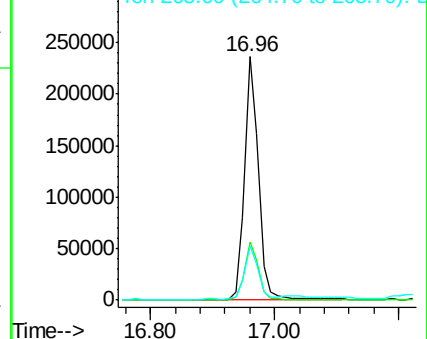
264 100

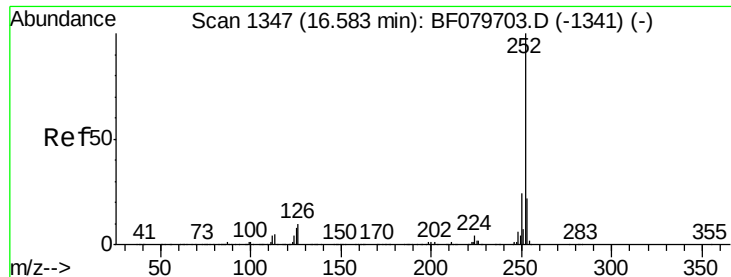
260 23.7 18.6 27.8

265 22.5 18.2 27.4



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

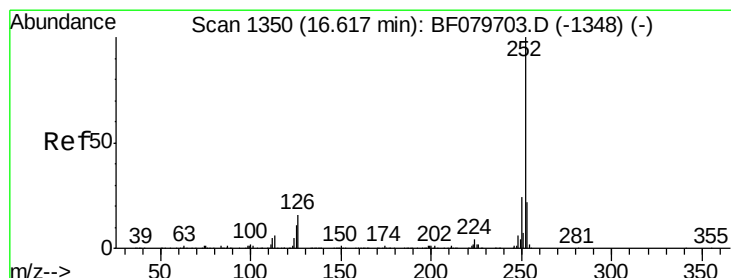
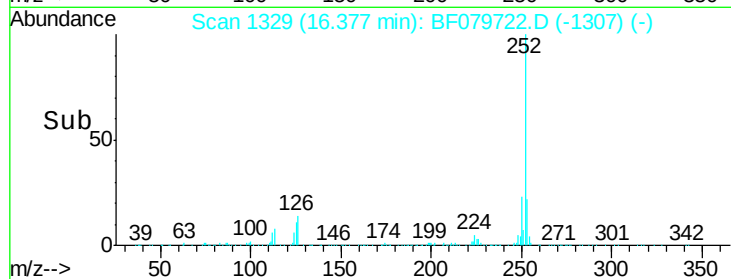
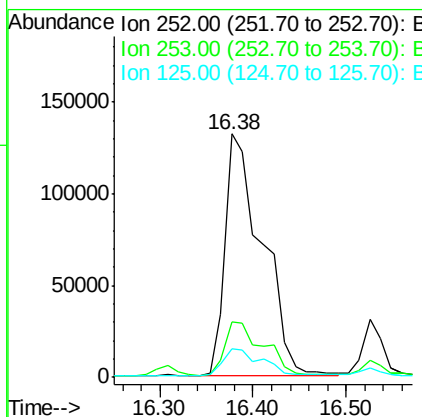
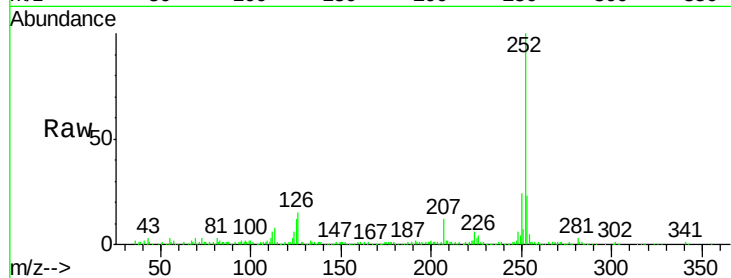




#87
Benzo(b)fluoranthene
Concen: 15.11 ng
RT: 16.38 min Scan# 1329
Delta R.T. 0.05 min
Lab File: BF079722.D
Acq: 5 Jun 2015 2:47

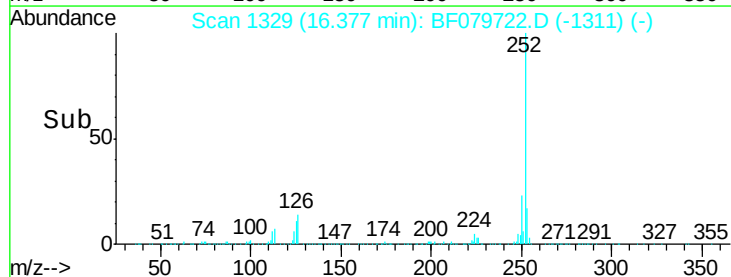
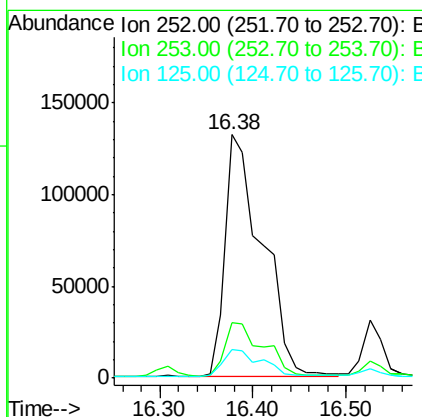
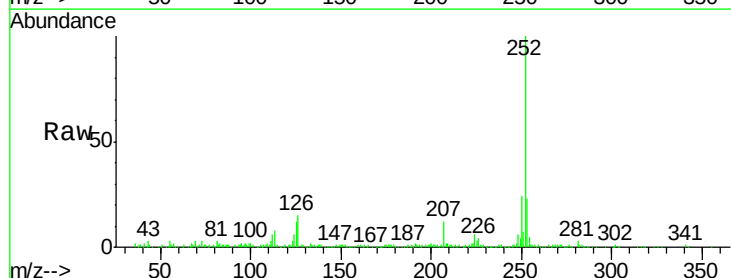
Instrument :
BNA_F
ClientSampleId :
SB-22AS

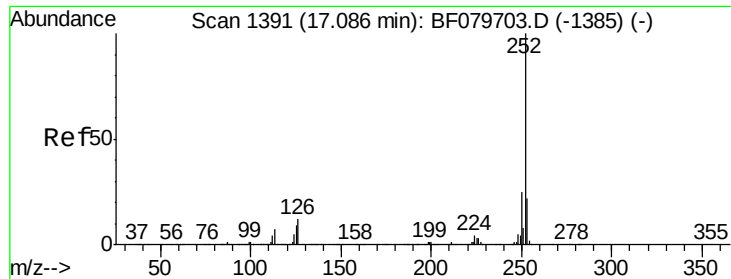
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.2
125	11.7	6.5	9.7#



#88
Benzo(k)fluoranthene
Concen: 15.83 ng
RT: 16.38 min Scan# 1329
Delta R.T. 0.00 min
Lab File: BF079722.D
Acq: 5 Jun 2015 2:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	11.7	8.4	12.6





#89

Benzo(a)pyrene

Concen: 9.36 ng

RT: 16.88 min Scan# 1373

Delta R.T. 0.05 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

Instrument :

BNA_F

ClientSampleId :

SB-22AS

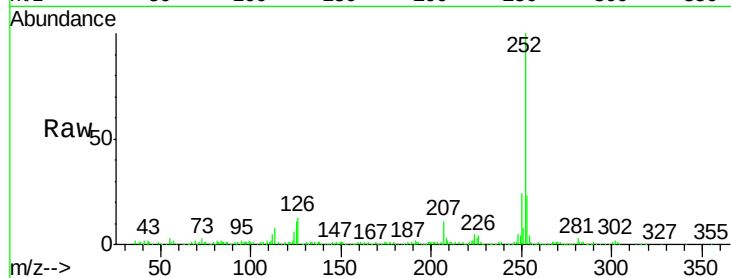
Tgt Ion:252 Resp: 207427

Ion Ratio Lower Upper

252 100

253 23.0 17.6 26.4

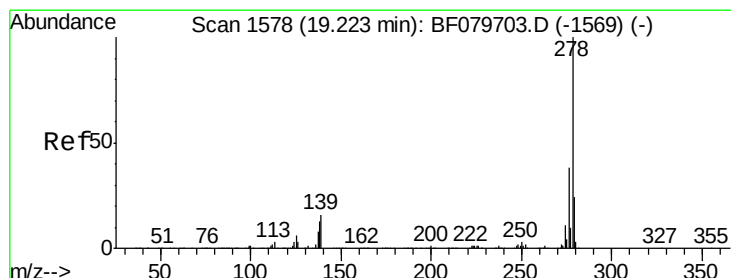
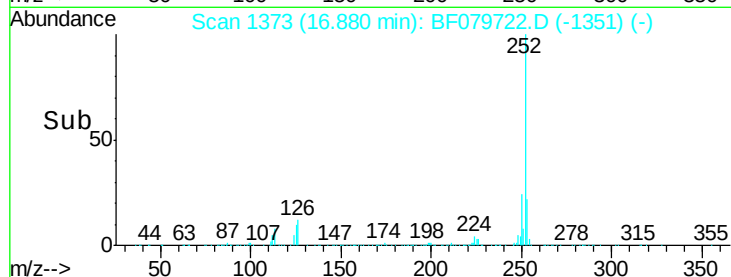
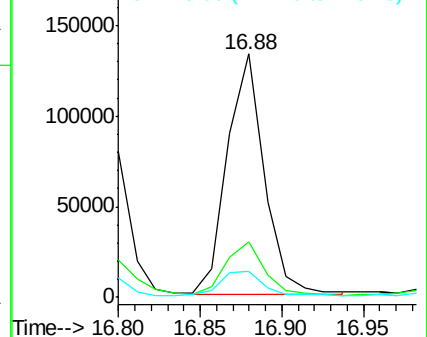
125 10.9 7.4 11.0



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



#90

Dibenzo(a,h)anthracene

Concen: 2.46 ng

RT: 18.98 min Scan# 1557

Delta R.T. 0.03 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

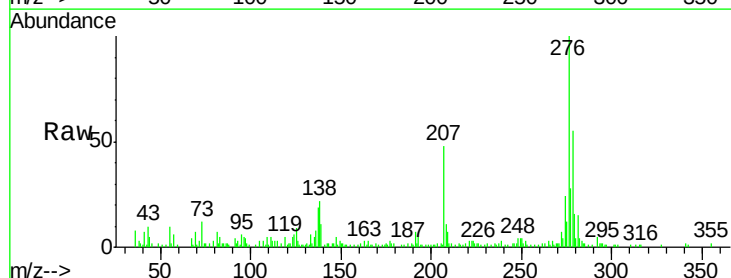
Tgt Ion:278 Resp: 50324

Ion Ratio Lower Upper

278 100

139 19.7 12.7 19.1#

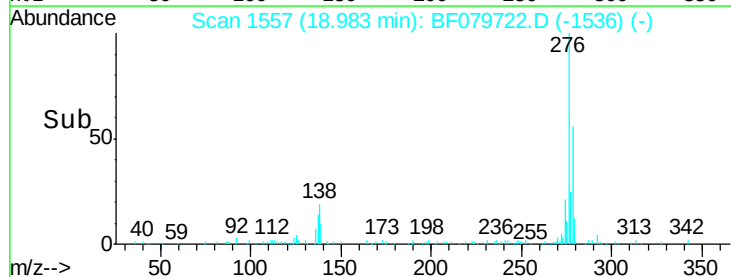
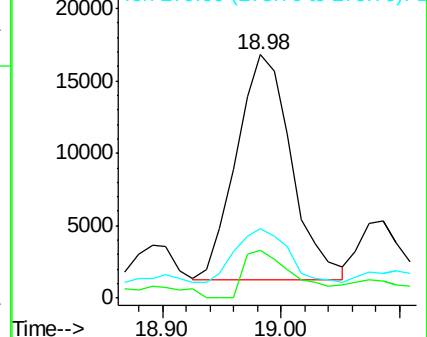
279 28.3 19.4 29.2

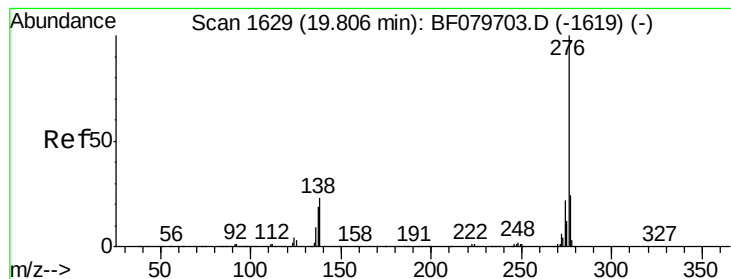


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 7.38 ng

RT: 19.57 min Scan# 1608

Delta R.T. 0.03 min

Lab File: BF079722.D

Acq: 5 Jun 2015 2:47

Instrument :

BNA_F

ClientSampleId :

SB-22AS

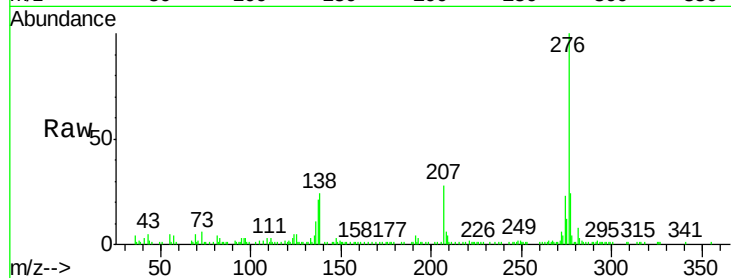
Tgt Ion: 276 Resp: 154549

Ion Ratio Lower Upper

276 100

277 24.2 18.8 28.2

138 24.4 18.2 27.2



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

