

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051215\
 Data File : BF079168.D
 Acq On : 12 May 2015 20:14
 Operator : TP/IZ
 Sample : G2155-06 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-48AS

Quant Time: May 13 01:16:52 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 13 00:53:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.28	152	53695	20.00	ng	0.00
21) Naphthalene-d8	8.86	136	225594	20.00	ng	0.00
38) Acenaphthene-d10	11.03	164	107968	20.00	ng	-0.01
63) Phenanthrene-d10	12.88	188	211701	20.00	ng	0.00
75) Chrysene-d12	16.17	240	218679	20.00	ng	-0.02
86) Perylene-d12	17.87	264	241867	20.00	ng	-0.15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.59	112	62849	20.15	ng	0.01
7) Phenol-d6	6.84	99	86563	20.99	ng	0.00
23) Nitrobenzene-d5	7.96	82	45698	11.64	ng	-0.01
41) 2,4,6-Tribromophenol	12.01	330	21020	18.00	ng	0.00
44) 2-Fluorobiphenyl	10.20	172	88677	11.44	ng	0.00
78) Terphenyl-d14	14.87	244	98482	10.78	ng	-0.01

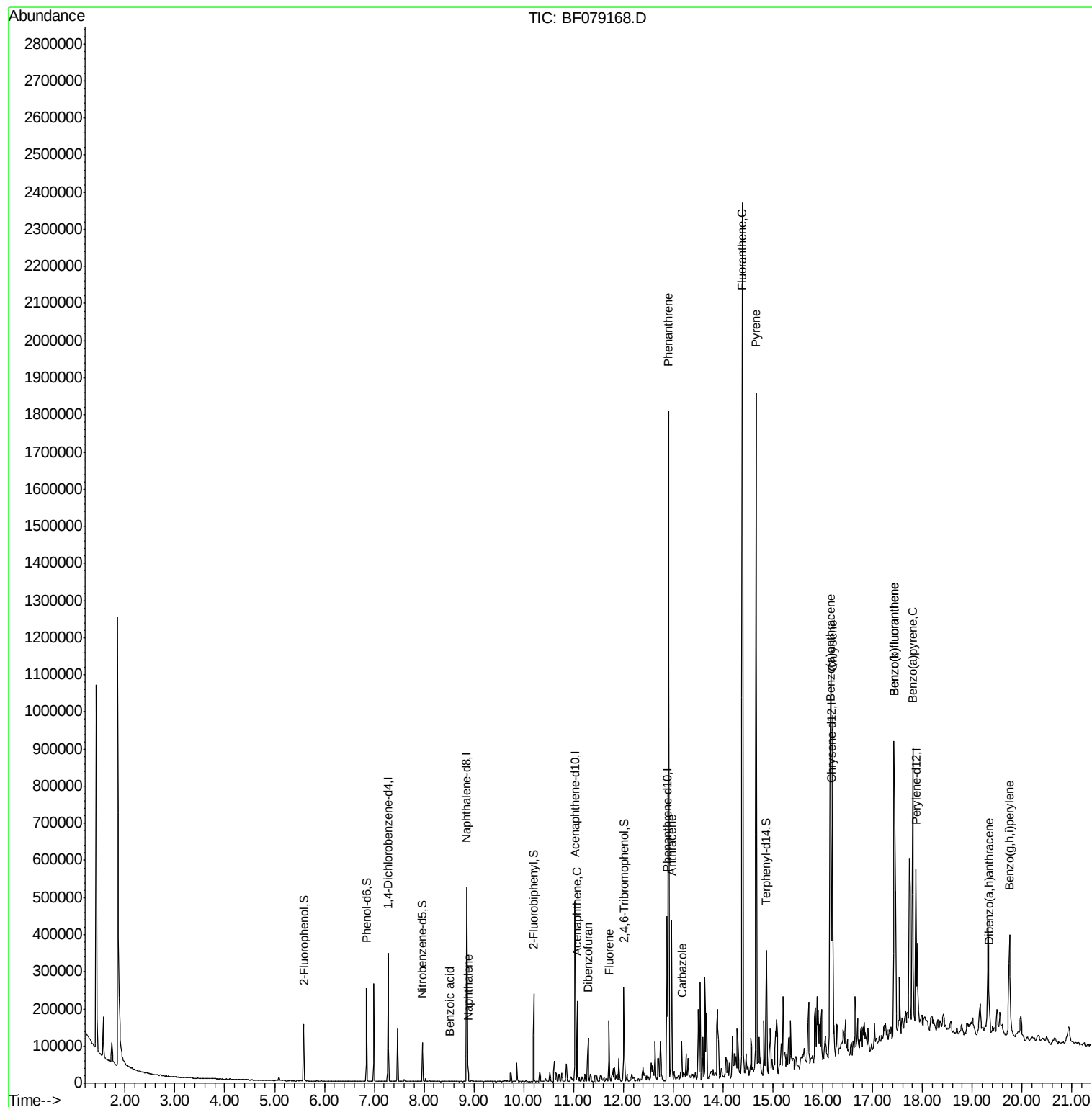
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.88	128	22502	2.09	ng	98
32) Benzoic acid	8.51	122	291	6.44	ng	96
51) Acenaphthene	11.07	154	54367	8.29	ng	97
54) Dibenzofuran	11.29	168	52301	5.52	ng	93
57) Fluorene	11.71	166	47020	6.05	ng	97
70) Phenanthrene	12.90	178	883838	74.63	ng	99
71) Anthracene	12.97	178	185697	15.98	ng	98
72) Carbazole	13.18	167	47777	4.31	ng	96
74) Fluoranthene	14.39	202	1044377	84.63	ng	97
77) Pyrene	14.66	202	965032	76.58	ng	# 96
80) Benzo(a)anthracene	16.15	228	451083	37.67	ng	98
82) Chrysene	16.19	228	405928	35.24	ng	97
87) Benzo(b)fluoranthene	17.43	252	523978	39.58	ng	98
88) Benzo(k)fluoranthene	17.43	252	658105	51.35	ng	99
89) Benzo(a)pyrene	17.81	252	358167	29.38	ng	# 96
90) Dibenzo(a,h)anthracene	19.34	278	47624	3.68	ng	# 92
91) Benzo(g,h,i)perylene	19.75	276	217012	16.71	ng	99

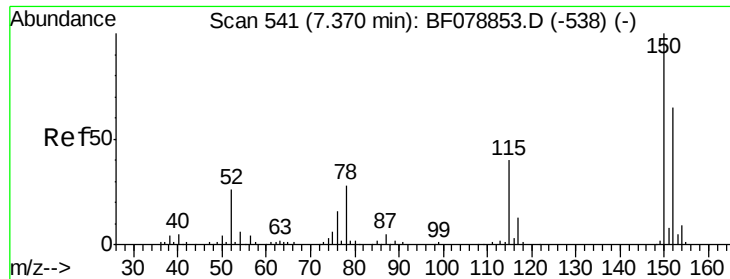
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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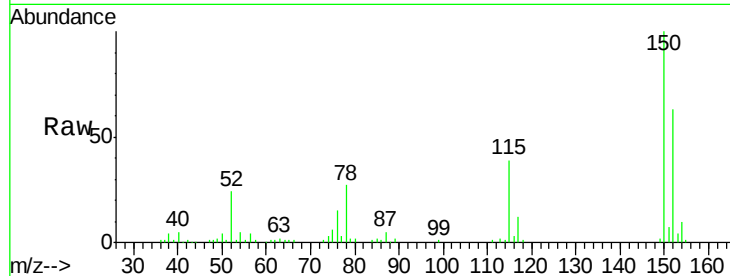


#1

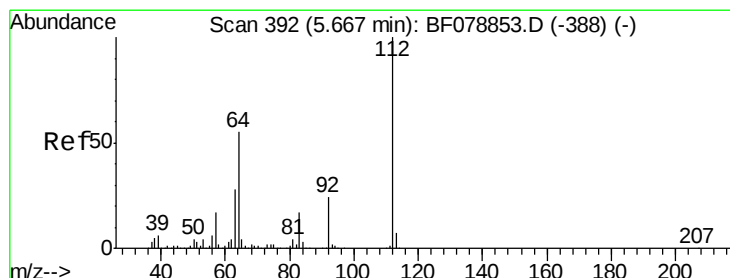
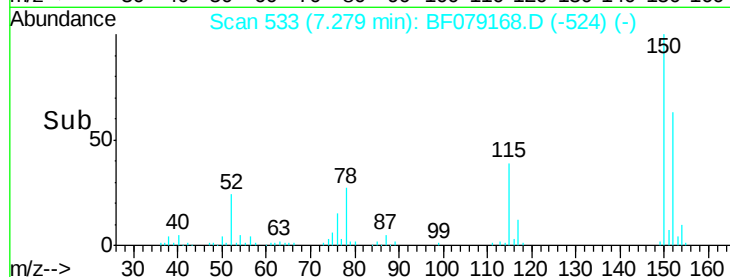
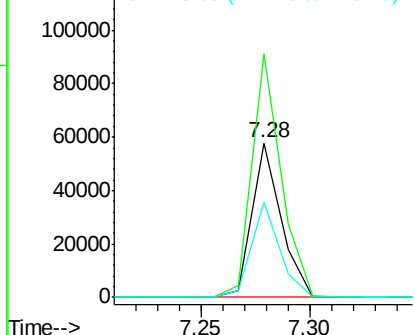
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.28 min Scan# 533
Delta R.T. -0.00 min
Lab File: BF079168.D
Acq: 12 May 2015 20:14

Instrument :
BNA_F
ClientSampleId :
SB-48AS

Tgt Ion:152 Resp: 53695
Ion Ratio Lower Upper
152 100
150 157.9 122.0 183.0
115 61.9 46.3 69.5



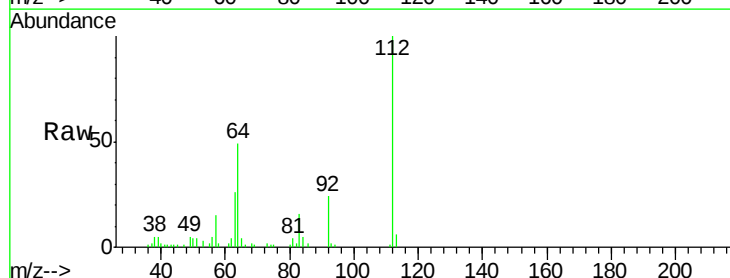
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



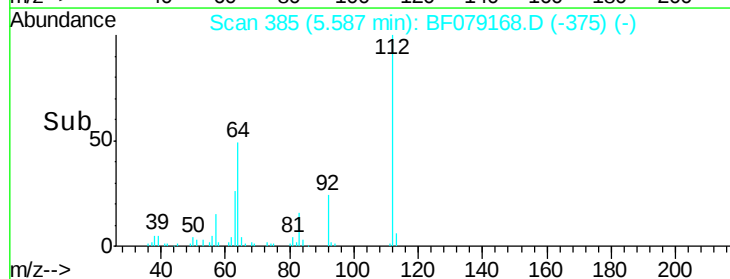
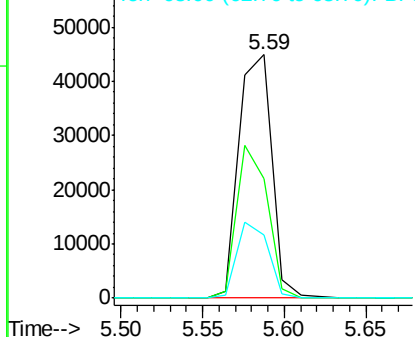
#5

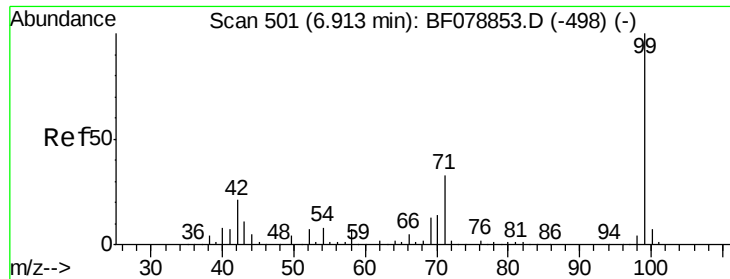
2-Fluorophenol
Concen: 20.15 ng
RT: 5.59 min Scan# 385
Delta R.T. 0.01 min
Lab File: BF079168.D
Acq: 12 May 2015 20:14

Tgt Ion:112 Resp: 62849
Ion Ratio Lower Upper
112 100
64 49.3 53.5 80.3#
63 25.7 27.5 41.3#



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: 20.99 ng

RT: 6.84 min Scan# 495

Delta R.T. -0.00 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

BNA_F

ClientSampleId :

SB-48AS

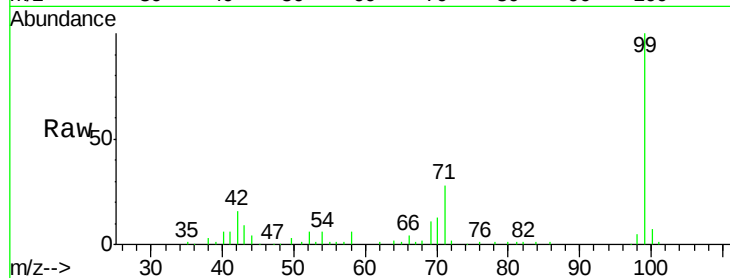
Tgt Ion: 99 Resp: 86563

Ion Ratio Lower Upper

99 100

42 15.9 12.8 19.2

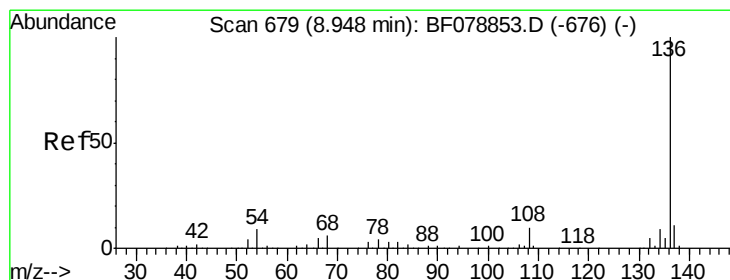
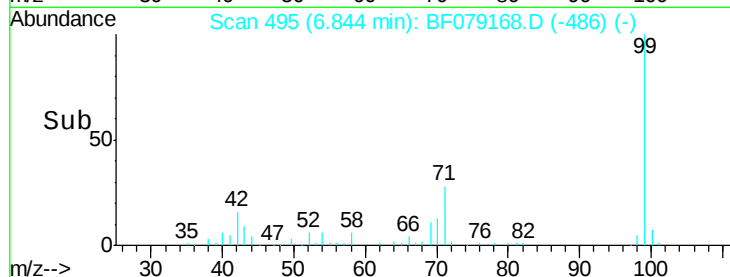
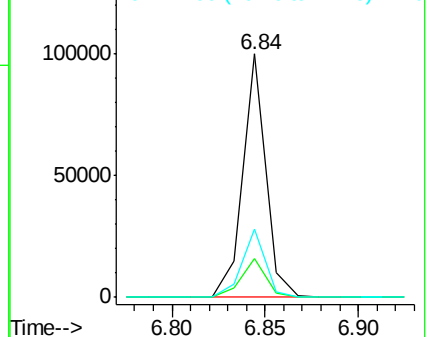
71 28.0 23.4 35.2



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: 8.86 min Scan# 671

Delta R.T. -0.00 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Tgt Ion: 136 Resp: 225594

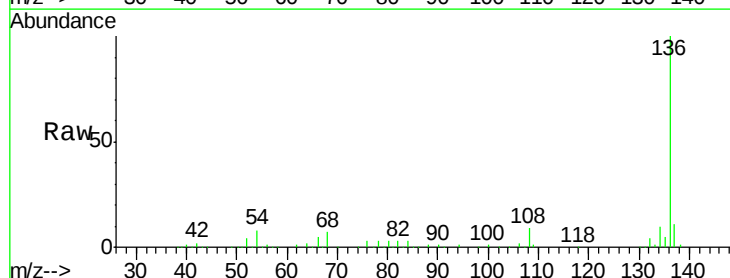
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 8.0 5.8 8.8

68 6.7 4.2 6.4#

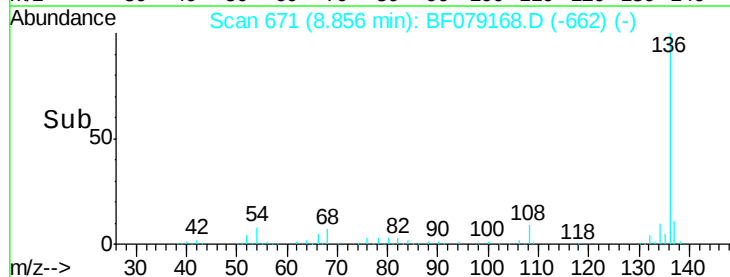
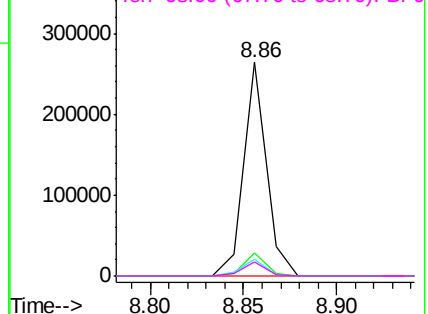


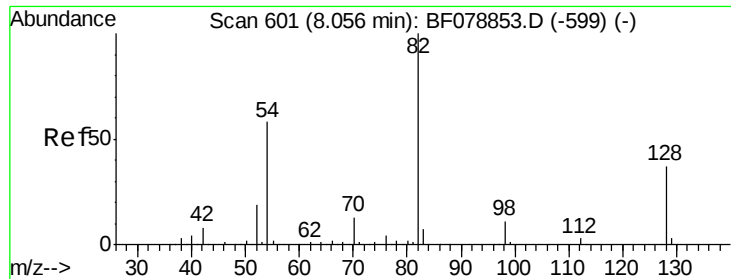
Abundance Ion 136.00 (135.70 to 136.70): E

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: 11.64 ng

RT: 7.96 min Scan# 593

Delta R.T. -0.01 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

BNA_F

ClientSampleId :

SB-48AS

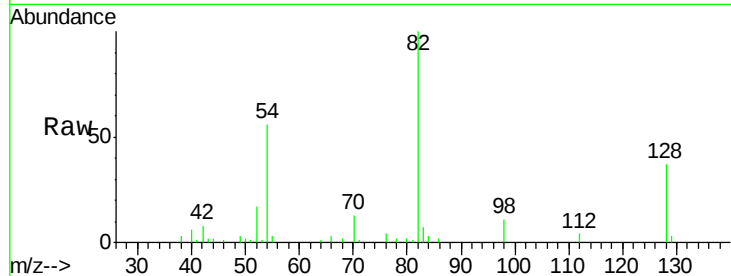
Tgt Ion: 82 Resp: 45698

Ion Ratio Lower Upper

82 100

128 36.8 30.0 45.0

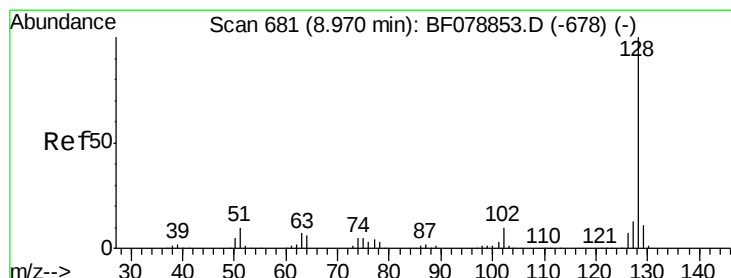
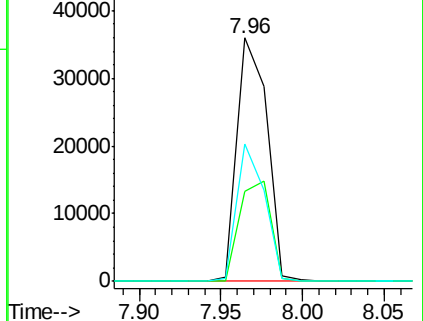
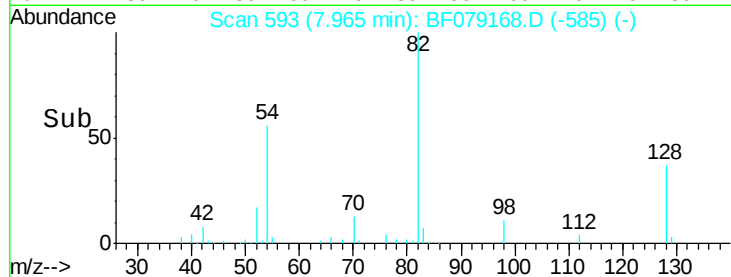
54 56.3 46.4 69.6



Abundance Ion 82.00 (81.70 to 82.70): BF079168.D (-585) (-)

Ion 128.00 (127.70 to 128.70): BF079168.D (-585) (-)

Ion 54.00 (53.70 to 54.70): BF079168.D (-585) (-)



#31

Naphthalene

Concen: 2.09 ng

RT: 8.88 min Scan# 673

Delta R.T. -0.01 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

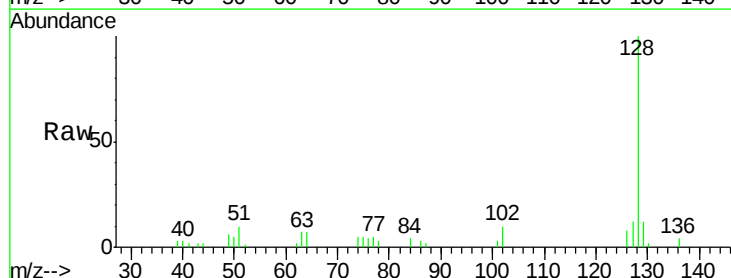
Tgt Ion: 128 Resp: 22502

Ion Ratio Lower Upper

128 100

129 11.7 9.3 13.9

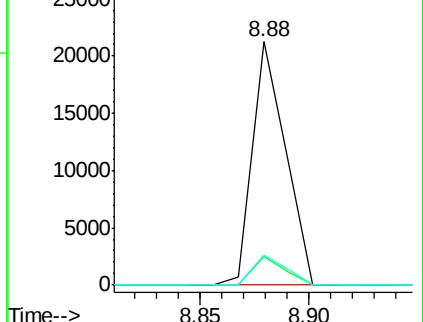
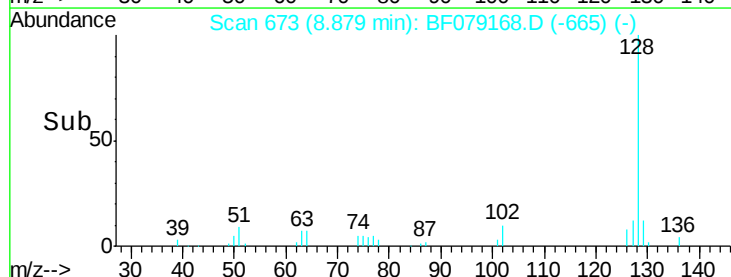
127 12.3 10.7 16.1

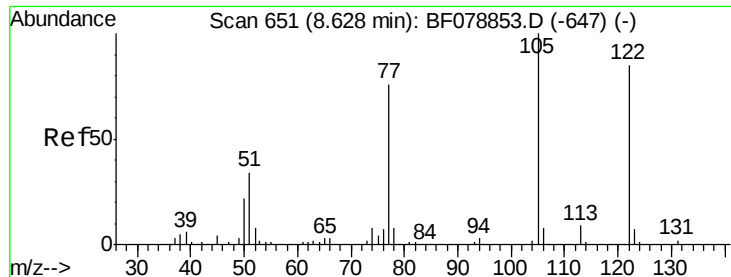


Abundance Ion 128.00 (127.70 to 128.70): BF079168.D (-665) (-)

Ion 129.00 (128.70 to 129.70): BF079168.D (-665) (-)

Ion 127.00 (126.70 to 127.70): BF079168.D (-665) (-)





#32

Benzoic acid

Concen: 6.44 ng

RT: 8.51 min Scan# 641

Delta R.T. -0.06 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

BNA_F

ClientSampleId :

SB-48AS

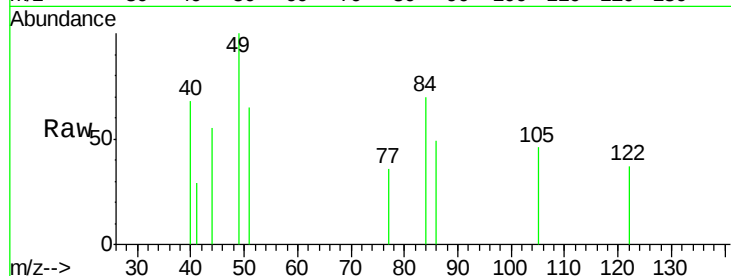
Tgt Ion:122 Resp: 291

Ion Ratio Lower Upper

122 100

105 121.9 107.1 147.1

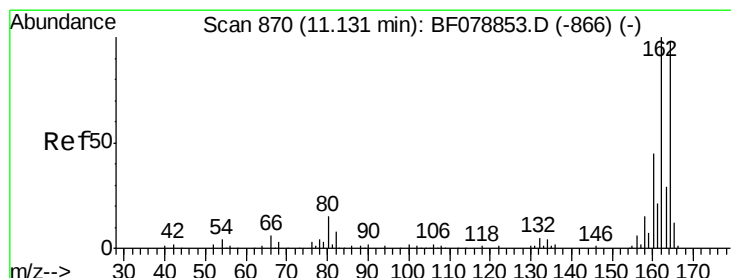
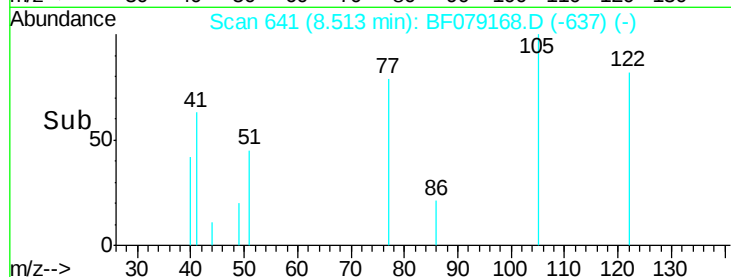
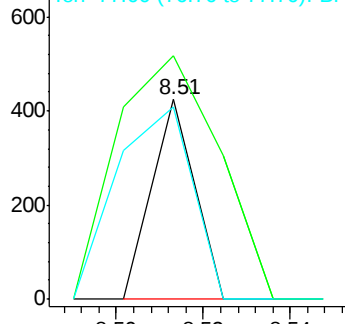
77 96.5 73.9 113.9



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 11.03 min Scan# 861

Delta R.T. -0.01 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

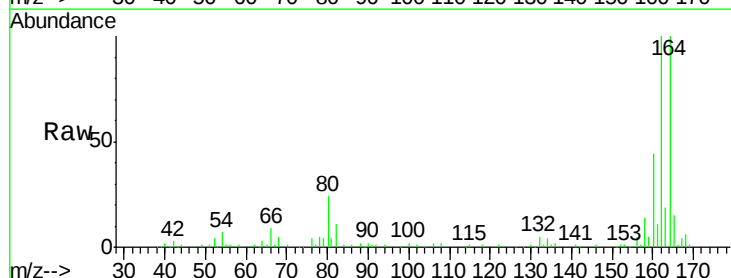
Tgt Ion:164 Resp: 107968

Ion Ratio Lower Upper

164 100

162 100.4 82.7 124.1

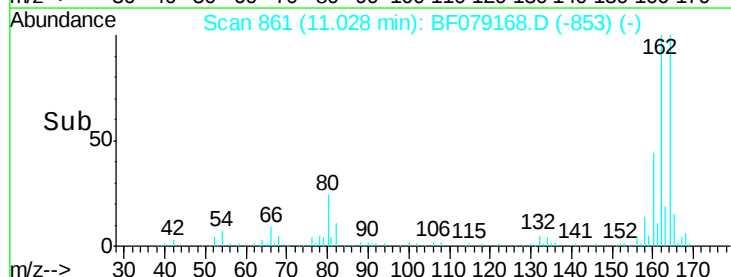
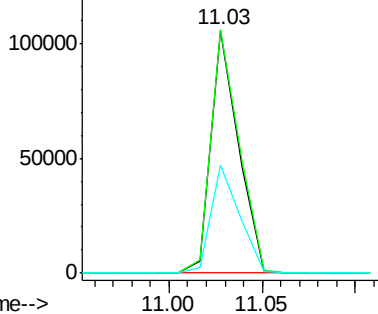
160 44.4 35.8 53.8

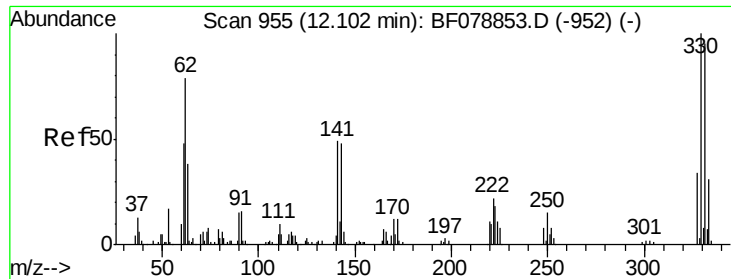


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

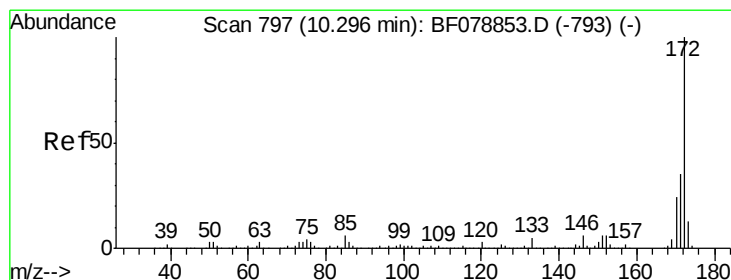
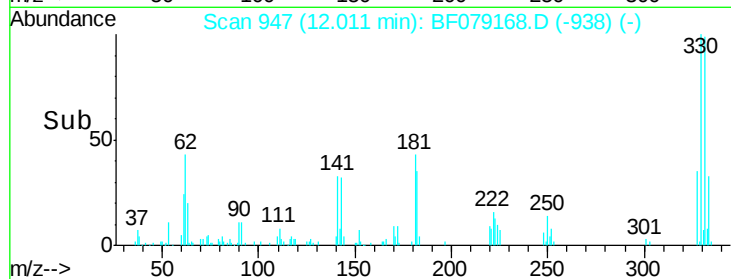
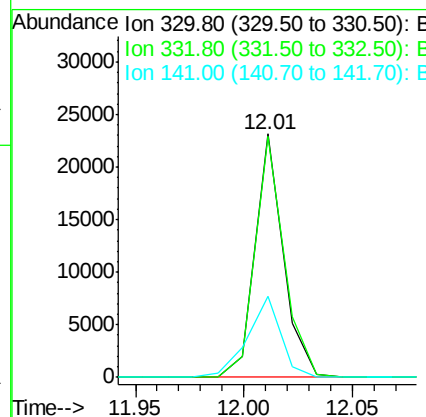
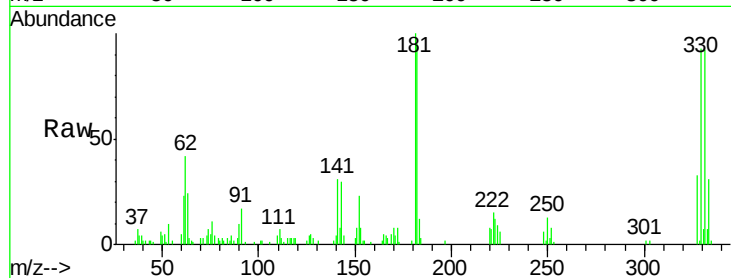




#41
 2,4,6-Tribromophenol
 Concen: 18.00 ng
 RT: 12.01 min Scan# 947
 Delta R.T. -0.00 min
 Lab File: BF079168.D
 Acq: 12 May 2015 20:14

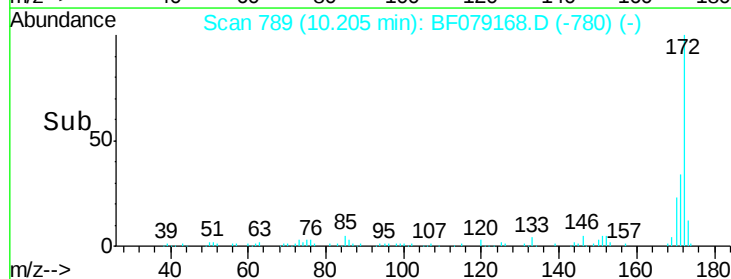
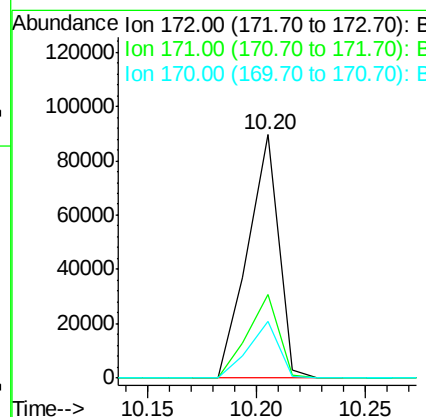
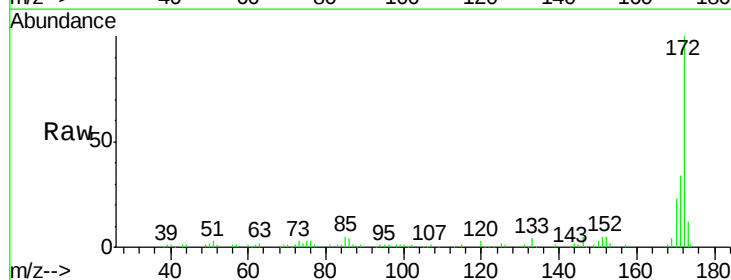
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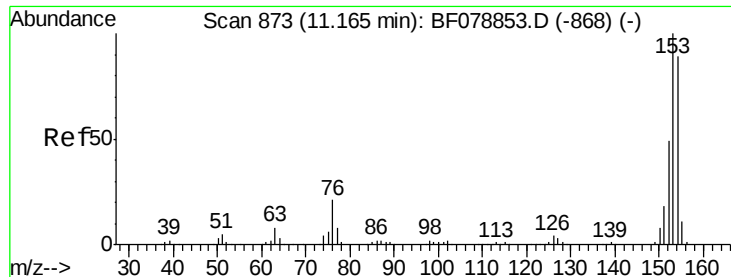
Tgt Ion:330 Resp: 21020
 Ion Ratio Lower Upper
 330 100
 332 101.1 0.0 0.0#
 141 39.0 0.0 0.0#



#44
 2-Fluorobiphenyl
 Concen: 11.44 ng
 RT: 10.20 min Scan# 789
 Delta R.T. -0.00 min
 Lab File: BF079168.D
 Acq: 12 May 2015 20:14

Tgt Ion:172 Resp: 88677
 Ion Ratio Lower Upper
 172 100
 171 34.3 27.9 41.9
 170 23.4 19.4 29.0

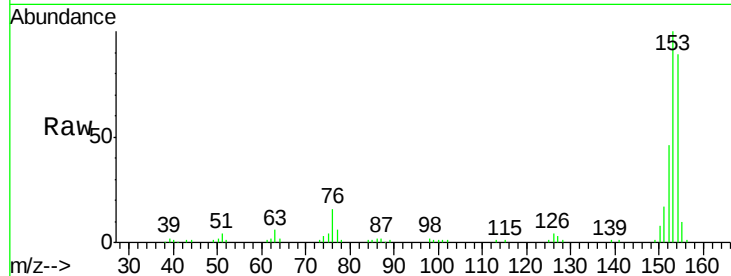




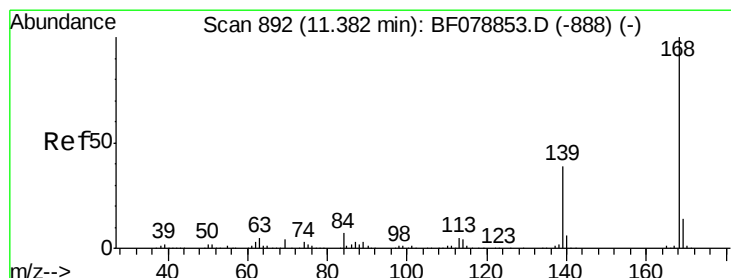
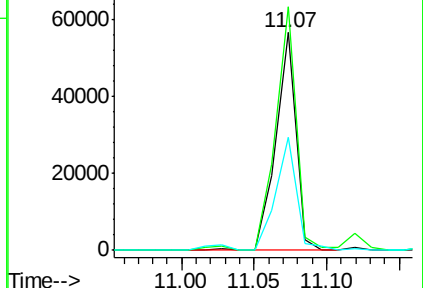
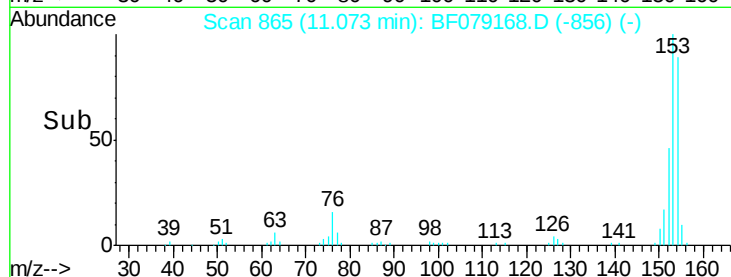
#51
Acenaphthene
Concen: 8.29 ng
RT: 11.07 min Scan# 865
Delta R.T. -0.00 min
Lab File: BF079168.D
Acq: 12 May 2015 20:14

Instrument :
BNA_F
ClientSampleId :
SB-48AS

Tgt Ion:154 Resp: 54367
Ion Ratio Lower Upper
154 100
153 111.7 91.5 137.3
152 51.6 44.2 66.4

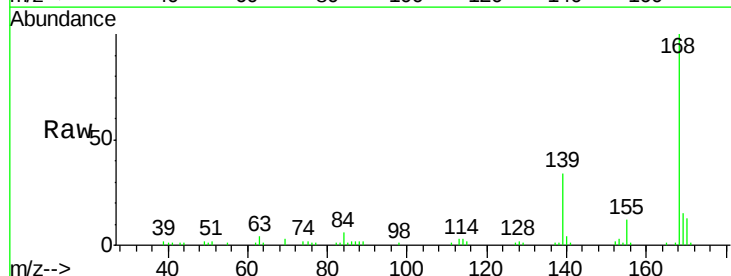


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

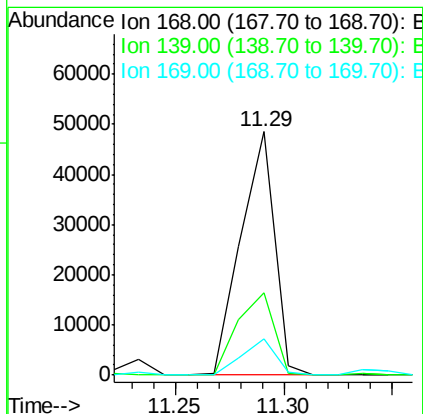
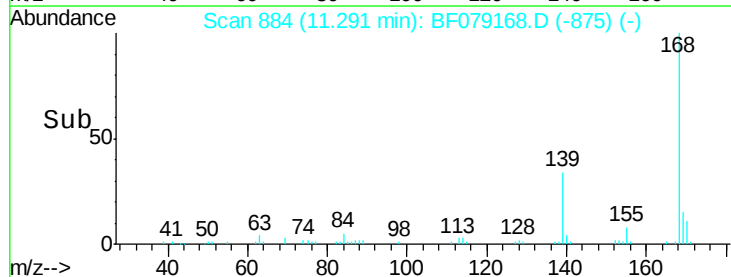


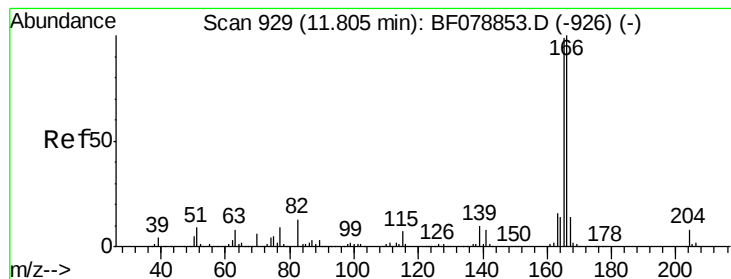
#54
Dibenzofuran
Concen: 5.52 ng
RT: 11.29 min Scan# 884
Delta R.T. -0.00 min
Lab File: BF079168.D
Acq: 12 May 2015 20:14

Tgt Ion:168 Resp: 52301
Ion Ratio Lower Upper
168 100
139 33.7 31.0 46.4
169 15.0 10.6 16.0



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





#57

Fluorene

Concen: 6.05 ng

RT: 11.71 min Scan# 921

Delta R.T. -0.00 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

BNA_F

ClientSampleId :

SB-48AS

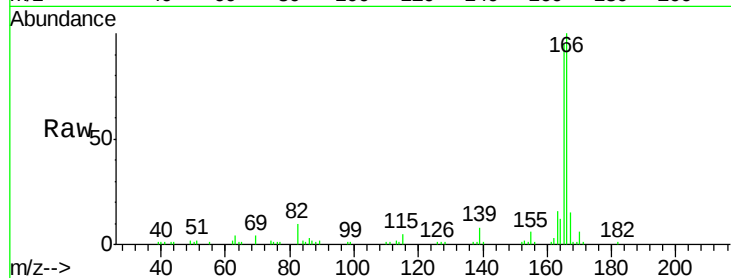
Tgt Ion:166 Resp: 47020

Ion Ratio Lower Upper

166 100

165 95.4 78.5 117.7

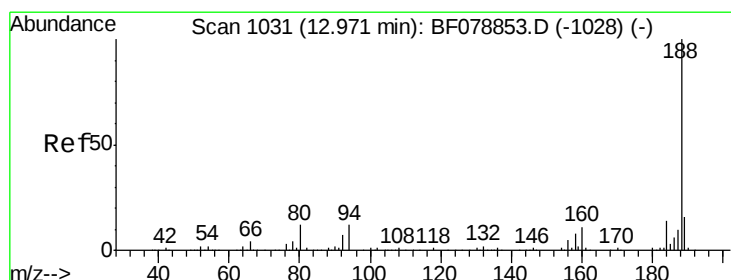
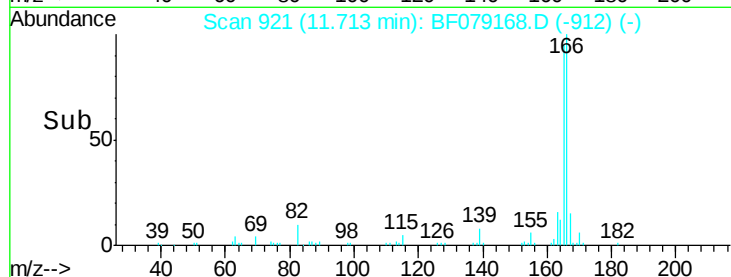
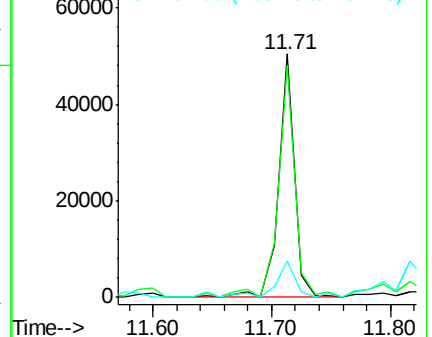
167 15.1 11.0 16.6



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.88 min Scan# 1023

Delta R.T. -0.00 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

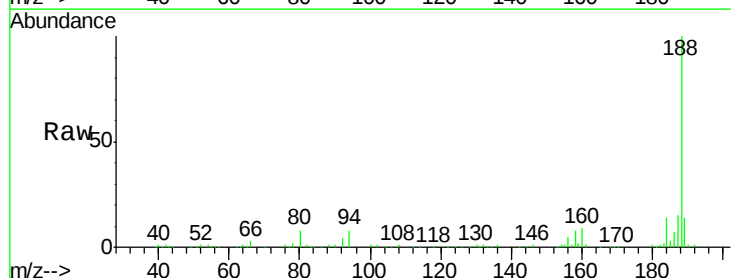
Tgt Ion:188 Resp: 211701

Ion Ratio Lower Upper

188 100

94 8.0 8.2 12.2#

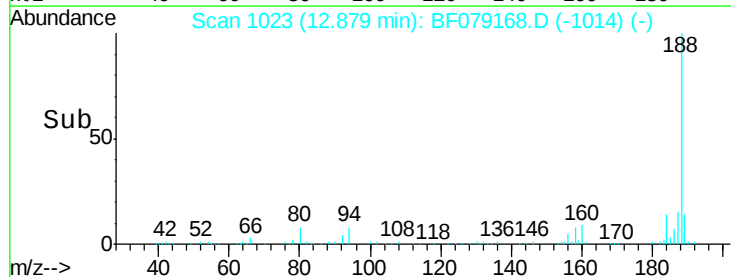
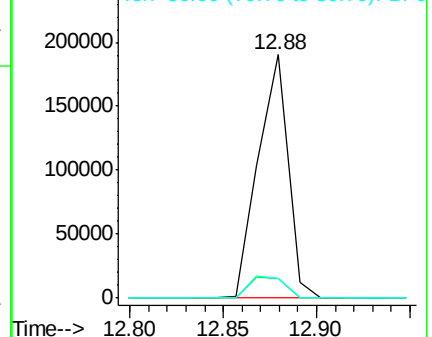
80 8.1 8.9 13.3#

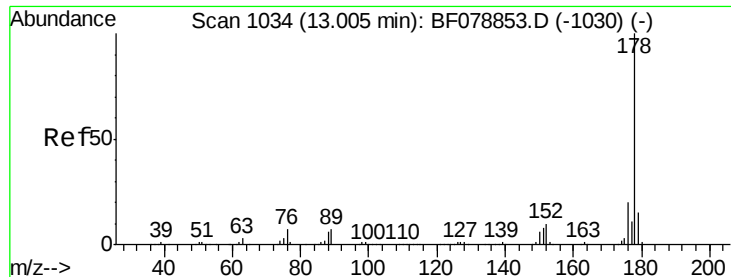


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 74.63 ng

RT: 12.90 min Scan# 1025

Delta R.T. -0.00 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

BNA_F

ClientSampleId :

SB-48AS

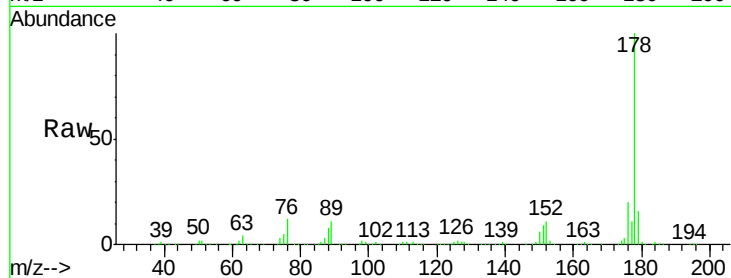
Tgt Ion:178 Resp: 883838

Ion Ratio Lower Upper

178 100

176 20.0 15.8 23.8

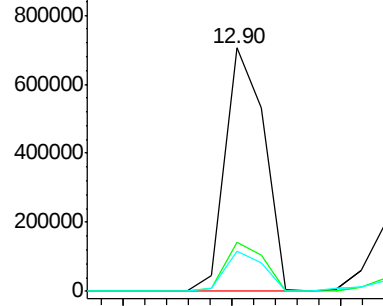
179 16.3 12.5 18.7



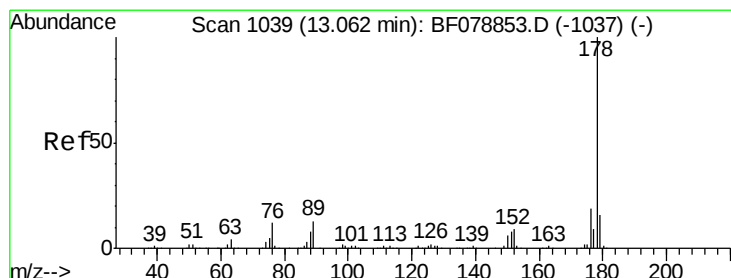
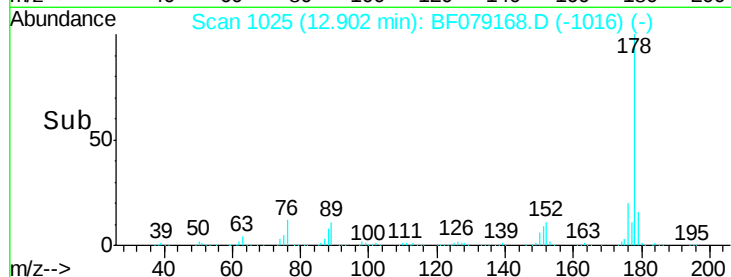
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#71

Anthracene

Concen: 15.98 ng

RT: 12.97 min Scan# 1031

Delta R.T. -0.00 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

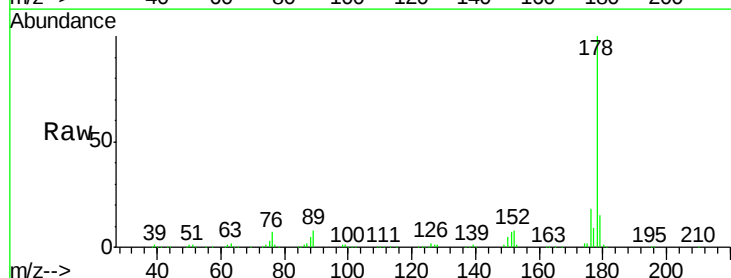
Tgt Ion:178 Resp: 185697

Ion Ratio Lower Upper

178 100

176 18.4 15.5 23.3

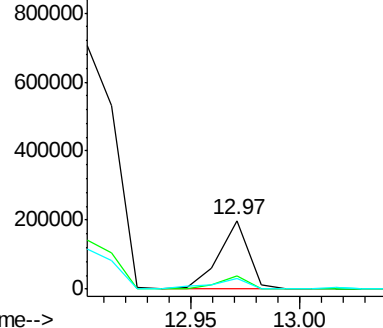
179 14.9 12.7 19.1



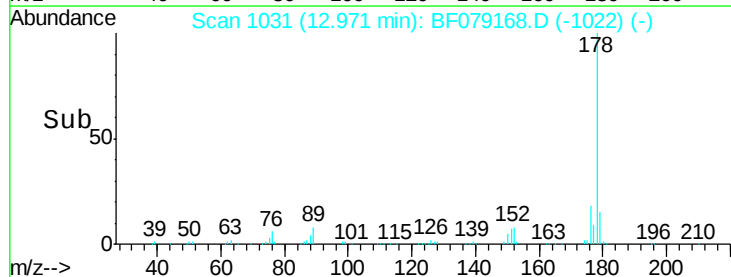
Abundance Ion 178.00 (177.70 to 178.70): E

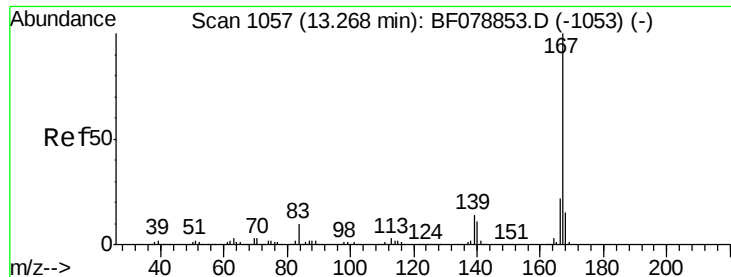
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#72

Carbazole

Concen: 4.31 ng

RT: 13.18 min Scan# 1049

Delta R.T. -0.00 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

BNA_F

ClientSampleId :

SB-48AS

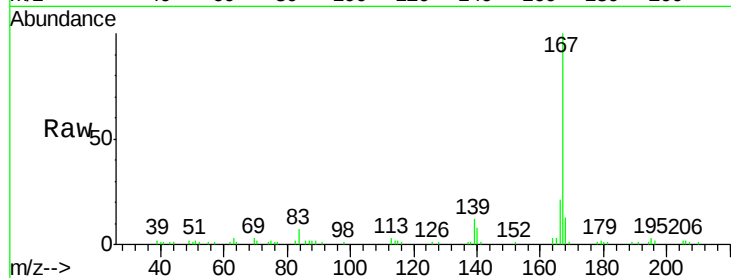
Tgt Ion:167 Resp: 47777

Ion Ratio Lower Upper

167 100

166 20.6 17.8 26.8

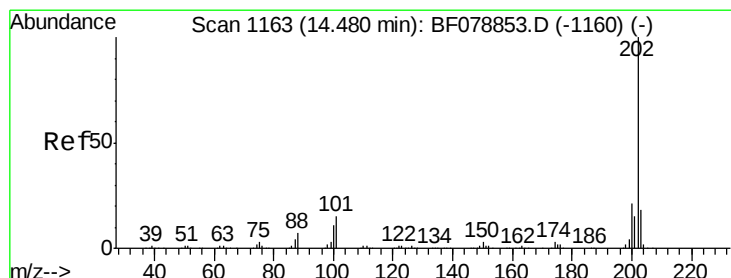
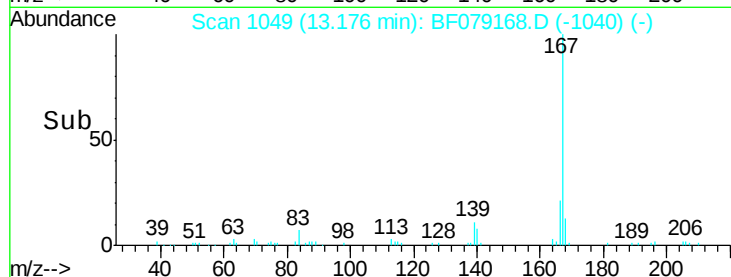
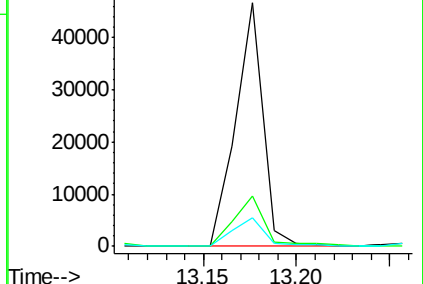
139 11.7 10.6 16.0



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 84.63 ng

RT: 14.39 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

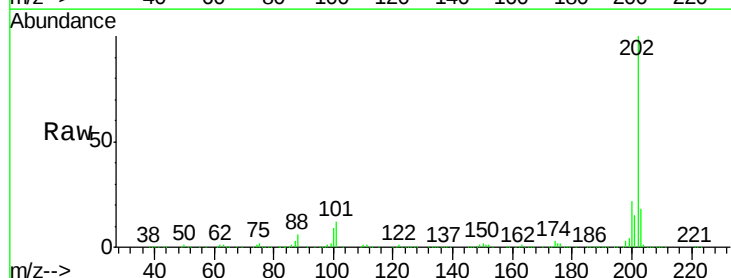
Tgt Ion:202 Resp: 1044377

Ion Ratio Lower Upper

202 100

101 12.2 0.0 34.6

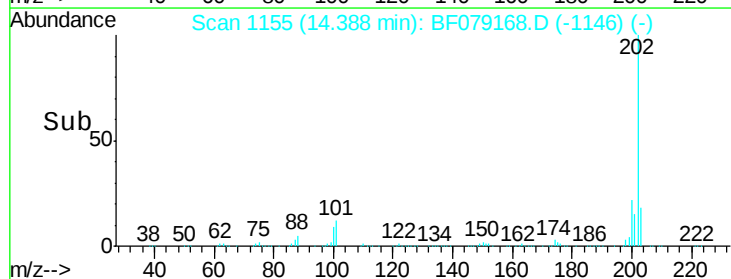
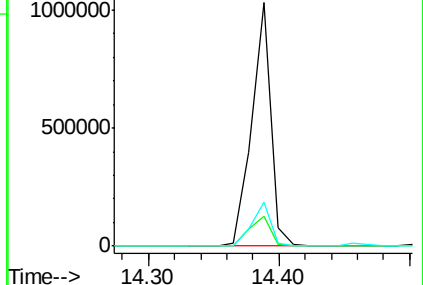
203 18.0 0.0 38.4

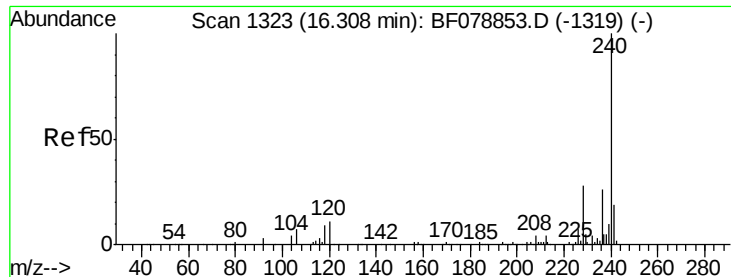


Abundance Ion 202.00 (201.70 to 202.70): E

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: 16.17 min Scan# 1311

Delta R.T. -0.02 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

BNA_F

ClientSampleId :

SB-48AS

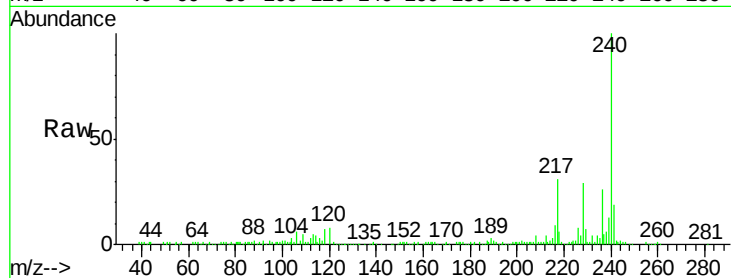
Tgt Ion:240 Resp: 218679

Ion Ratio Lower Upper

240 100

120 8.4 9.7 14.5#

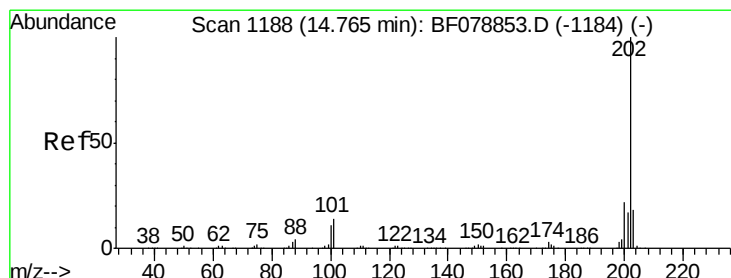
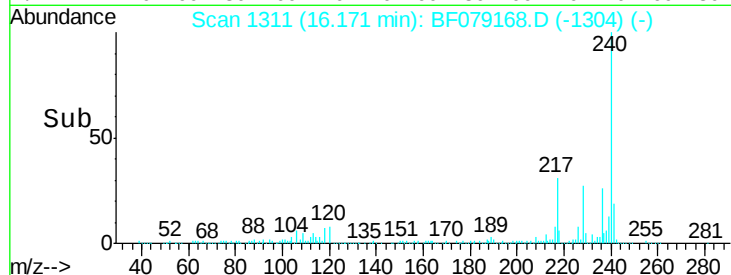
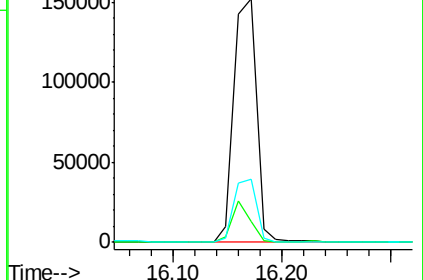
236 25.9 20.2 30.4



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: 76.58 ng

RT: 14.66 min Scan# 1179

Delta R.T. -0.00 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

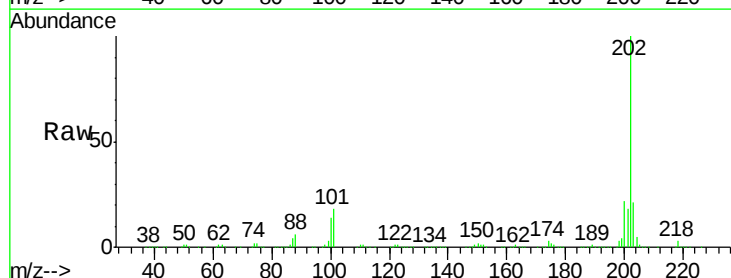
Tgt Ion:202 Resp: 965032

Ion Ratio Lower Upper

202 100

200 21.8 17.5 26.3

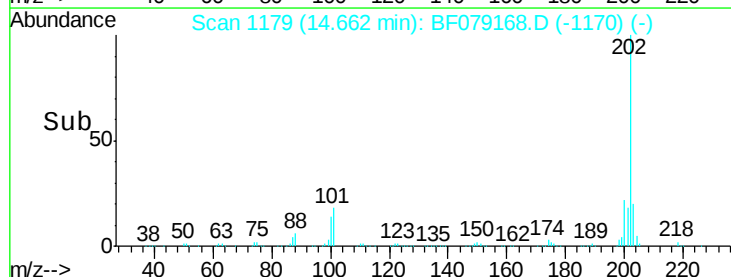
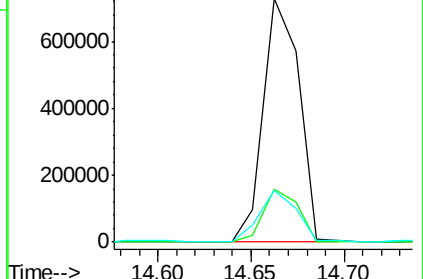
203 21.0 13.9 20.9#

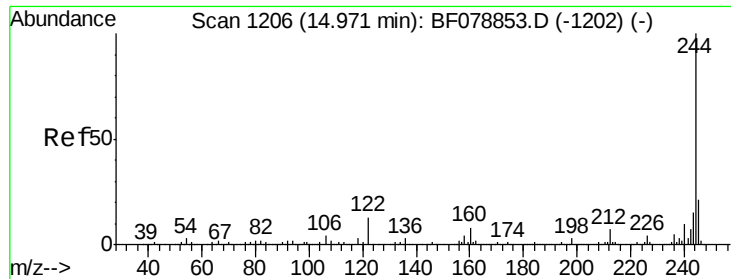


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

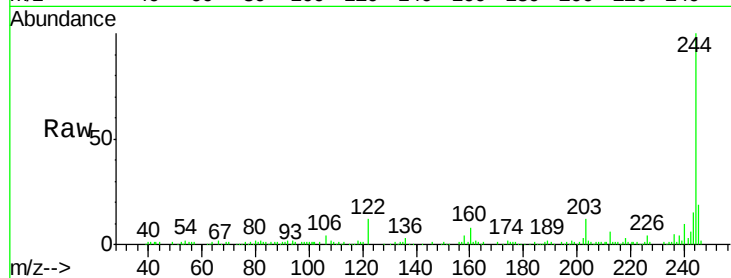




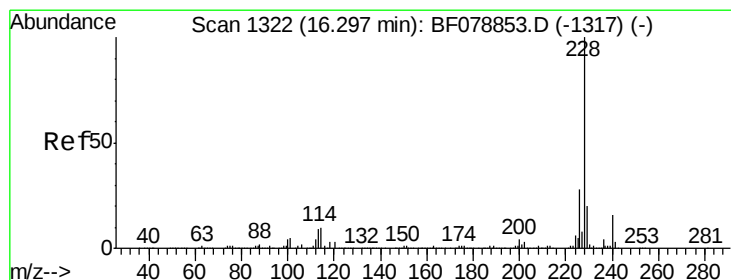
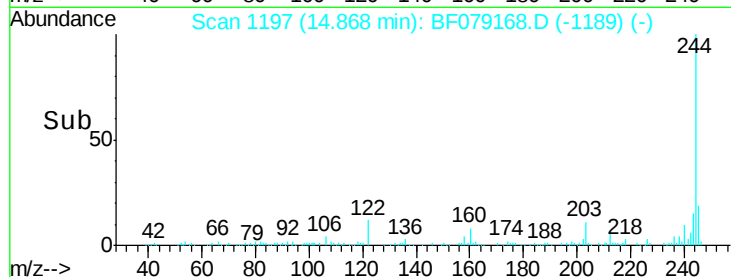
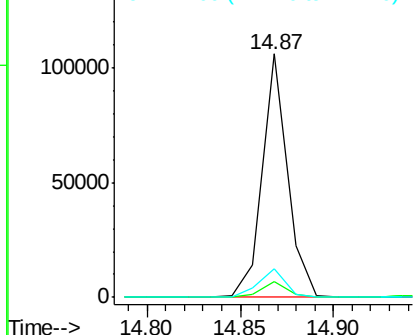
#78
 Terphenyl-d14
 Concen: 10.78 ng
 RT: 14.87 min Scan# 1197
 Delta R.T. -0.01 min
 Lab File: BF079168.D
 Acq: 12 May 2015 20:14

Instrument :
 BNA_F
 ClientSampleId :
 SB-48AS

Tgt Ion:244 Resp: 98482
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.6 8.4
 122 12.0 10.3 15.5

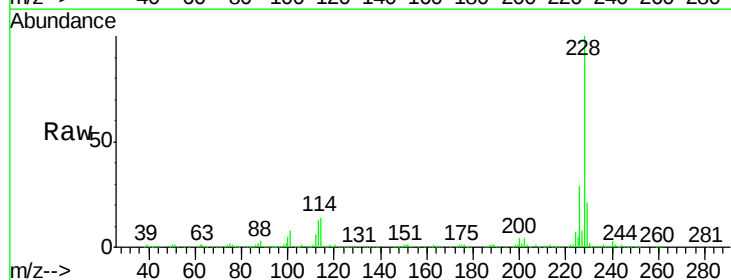


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

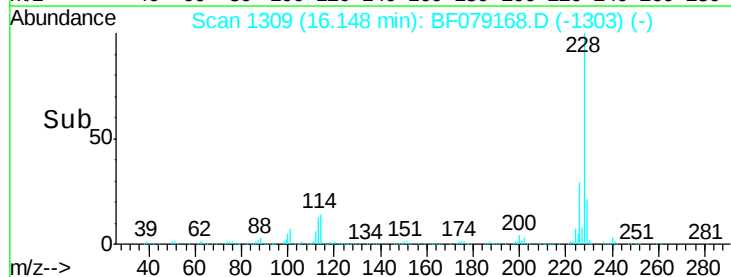
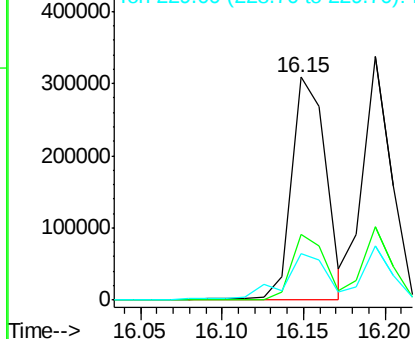


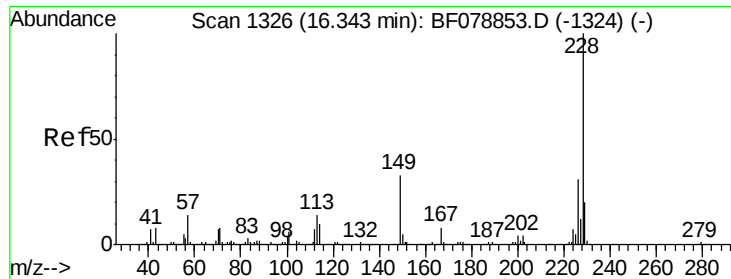
#80
 Benzo(a)anthracene
 Concen: 37.67 ng
 RT: 16.15 min Scan# 1309
 Delta R.T. -0.03 min
 Lab File: BF079168.D
 Acq: 12 May 2015 20:14

Tgt Ion:228 Resp: 451083
 Ion Ratio Lower Upper
 228 100
 226 29.5 22.6 33.8
 229 21.0 15.9 23.9



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: 35.24 ng

RT: 16.19 min Scan# 1313

Delta R.T. -0.03 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

BNA_F

ClientSampleId :

SB-48AS

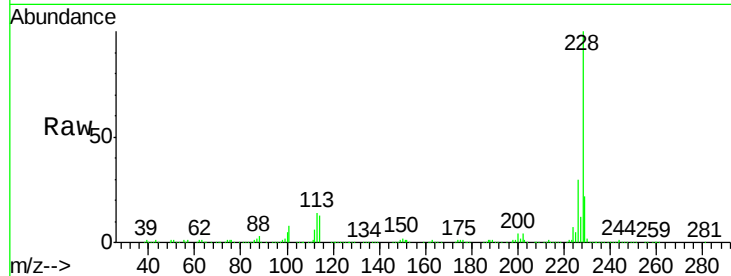
Tgt Ion:228 Resp: 405928

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

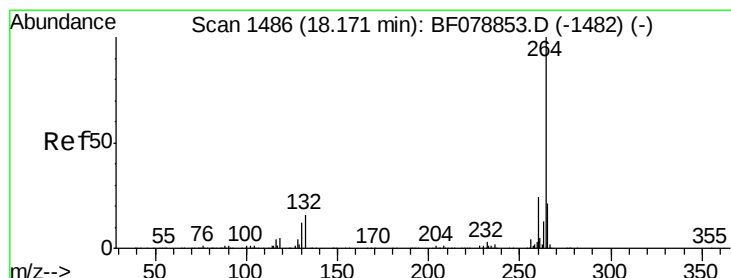
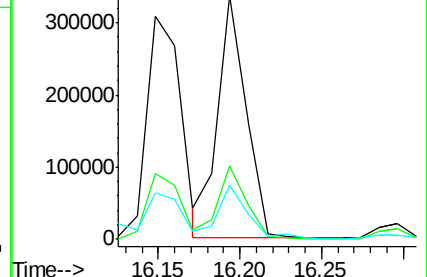
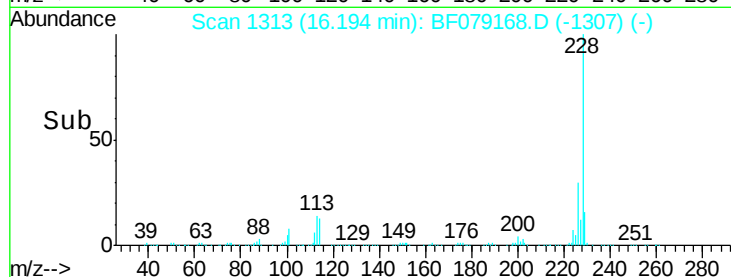
229 22.2 16.0 24.0



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 17.87 min Scan# 1460

Delta R.T. -0.15 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

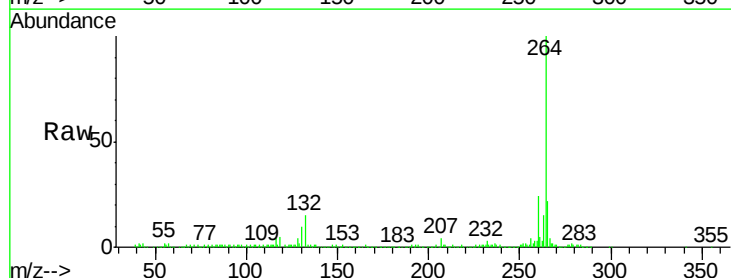
Tgt Ion:264 Resp: 241867

Ion Ratio Lower Upper

264 100

260 24.4 19.4 29.2

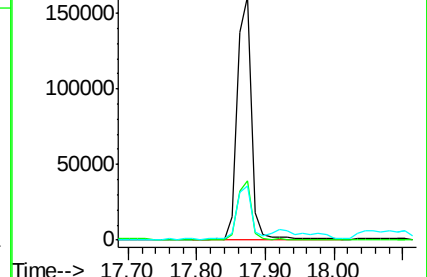
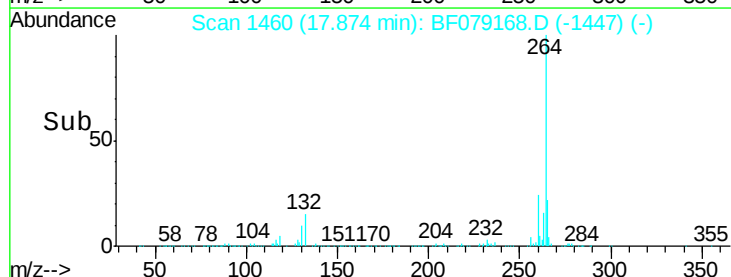
265 22.2 18.3 27.5

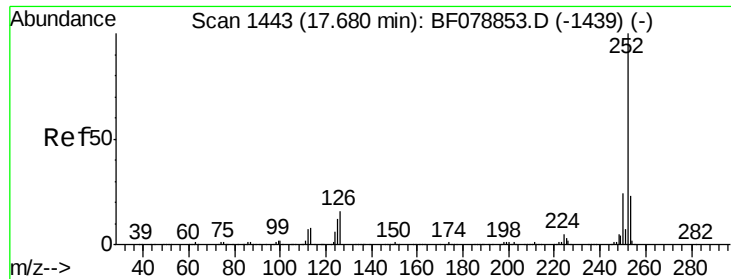


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 39.58 ng

RT: 17.43 min Scan# 1421

Delta R.T. -0.11 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

BNA_F

ClientSampleId :

SB-48AS

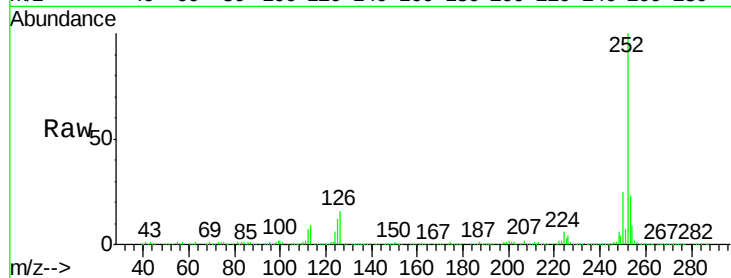
Tgt Ion:252 Resp: 523978

Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

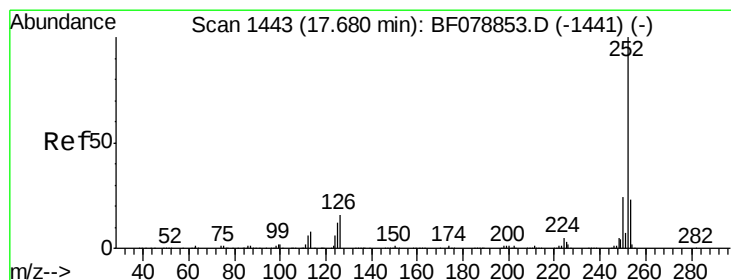
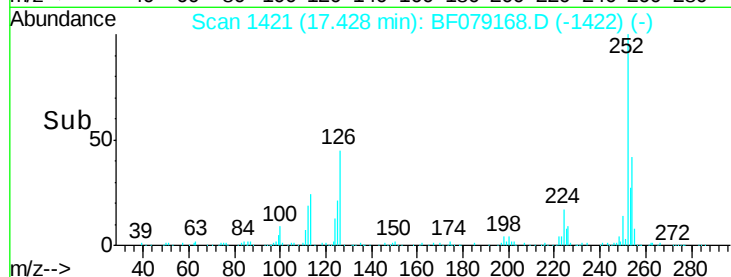
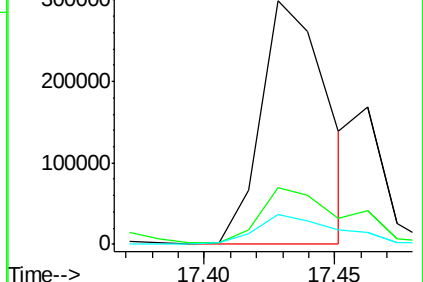
125 12.5 9.5 14.3



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



#88

Benzo(k)fluoranthene

Concen: 51.35 ng

RT: 17.43 min Scan# 1421

Delta R.T. -0.15 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

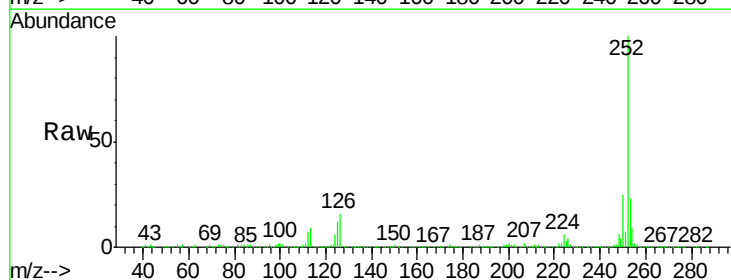
Tgt Ion:252 Resp: 658105

Ion Ratio Lower Upper

252 100

253 23.5 18.1 27.1

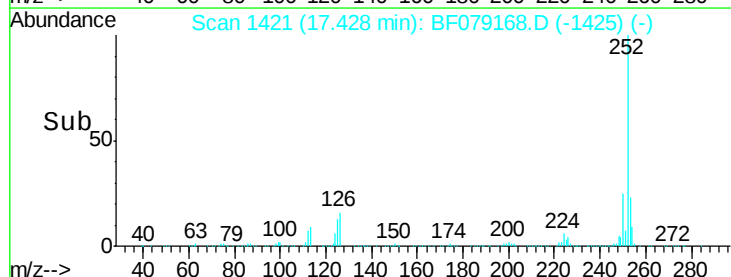
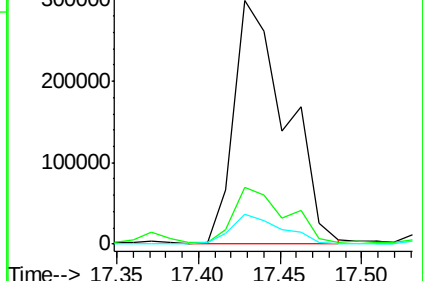
125 12.5 10.0 15.0

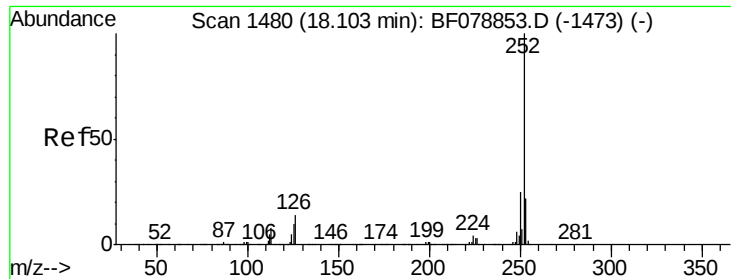


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 29.38 ng

RT: 17.81 min Scan# 1454

Delta R.T. -0.15 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

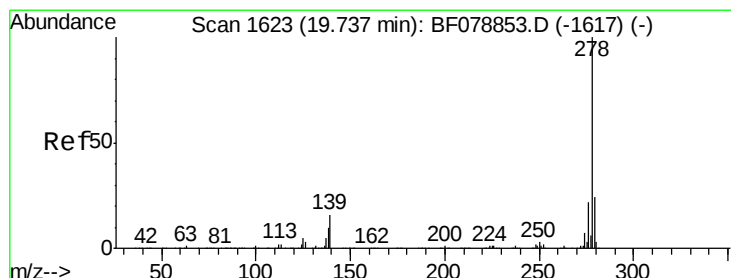
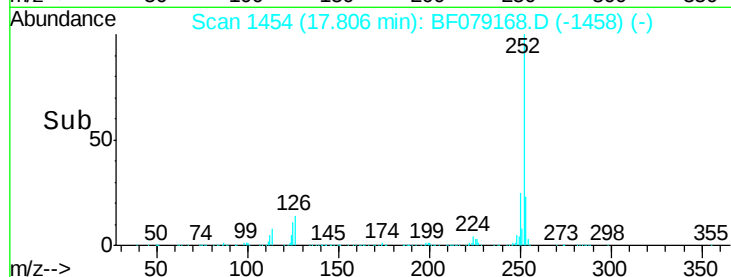
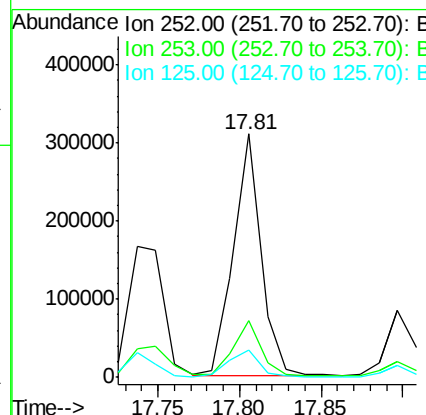
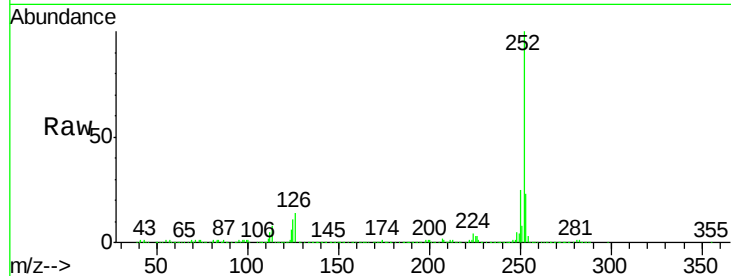
BNA_F

ClientSampleId :

SB-48AS

Tgt Ion:252 Resp: 358167

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.3	25.9
125	11.0	7.0	10.6#



#90

Dibenzo(a,h)anthracene

Concen: 3.68 ng

RT: 19.34 min Scan# 1588

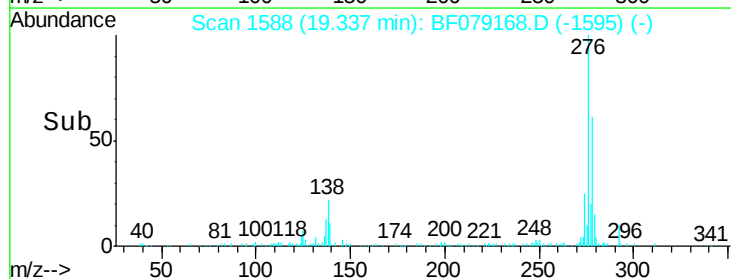
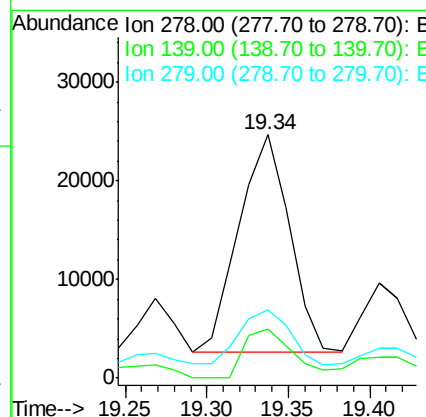
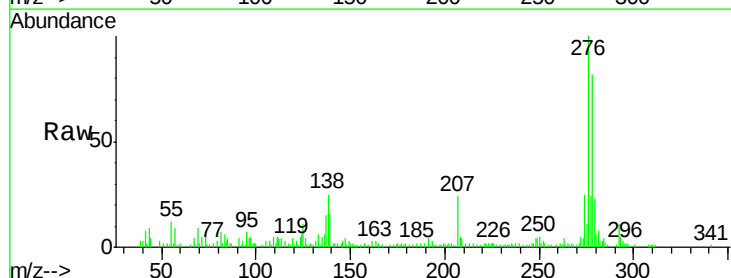
Delta R.T. -0.18 min

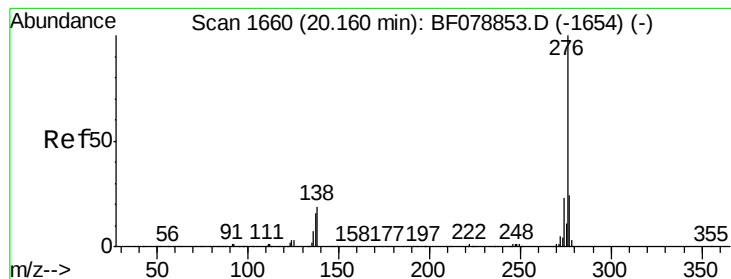
Lab File: BF079168.D

Acq: 12 May 2015 20:14

Tgt Ion:278 Resp: 47624

Ion	Ratio	Lower	Upper
278	100		
139	20.1	12.8	19.2#
279	28.1	19.6	29.4





#91

Benzo(g,h,i)perylene

Concen: 16.71 ng

RT: 19.75 min Scan# 1624

Delta R.T. -0.18 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

Instrument :

BNA_F

ClientSampleId :

SB-48AS

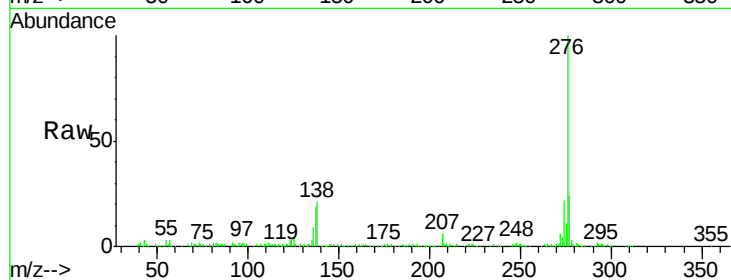
Tgt Ion: 276 Resp: 217012

Ion Ratio Lower Upper

276 100

277 23.7 18.6 28.0

138 21.4 17.4 26.0



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

