

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 01:58:58 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						
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				Qvalue		
31) Naphthalene	8.88	128	22502	2.09	ng	98
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
85) Indeno(1,2,3-cd)pyrene	19.31	276	207155m	14.12	ng	
87) Benzo(b)fluoranthene	17.43	252	523978	39.58	ng	98
88) Benzo(k)fluoranthene	17.46	252	138723m	10.82	ng	
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(a,h,i)perylene	19.75	276	217012	16.71	ng	99

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

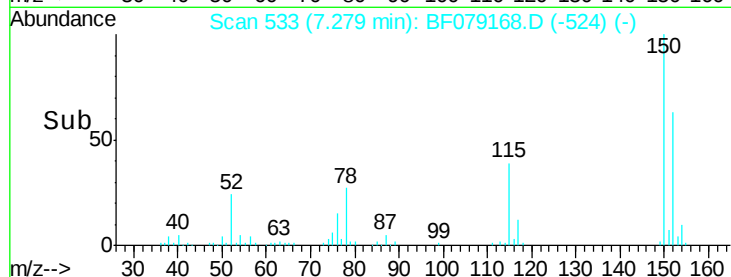
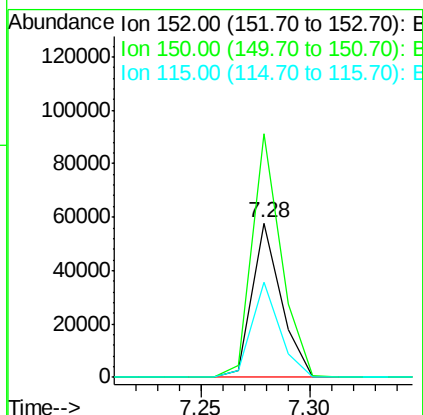
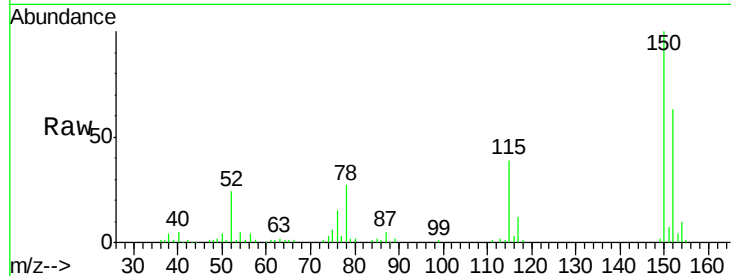


#1

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

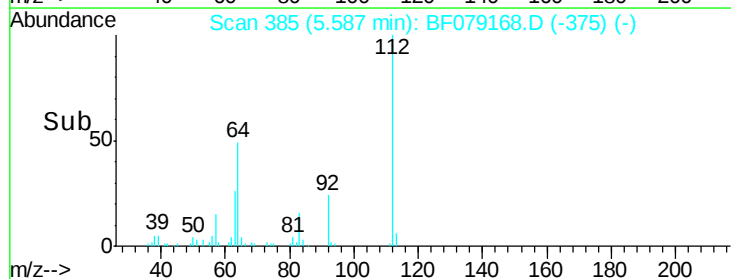
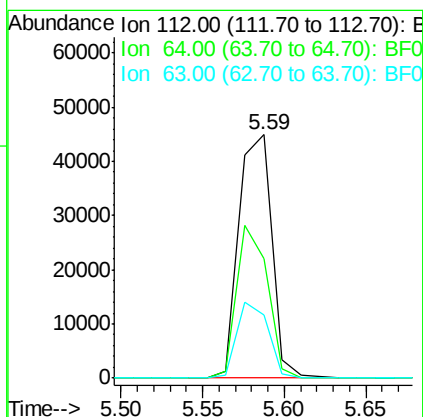
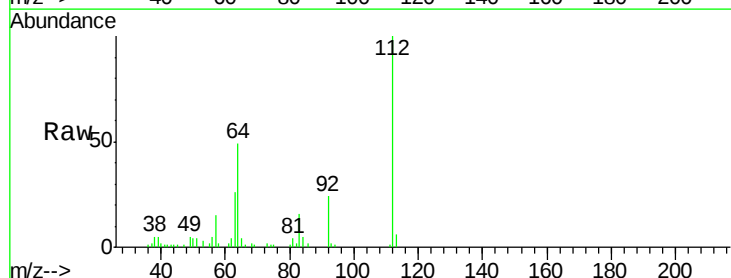
Tot Ion:152 Resp: 53695
Ion Ratio Lower Upper
152 100
150 157.9 122.0 183.0
115 61.9 46.3 69.5



#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#





#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

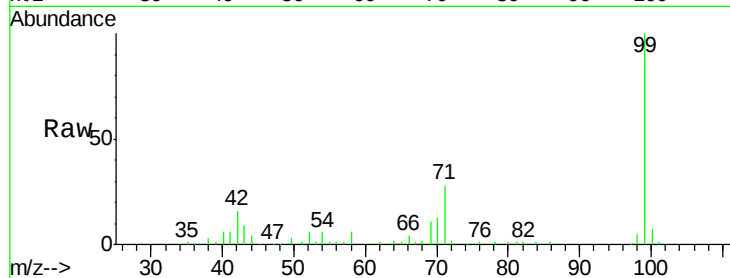
Tot Ion: 99 Resp: 86563

Ion Ratio Lower Upper

99 100

42 15.9 12.8 19.2

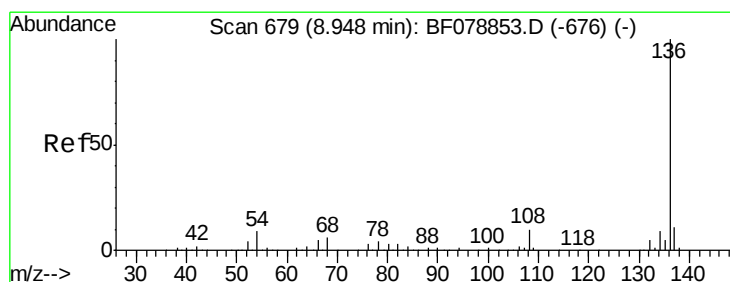
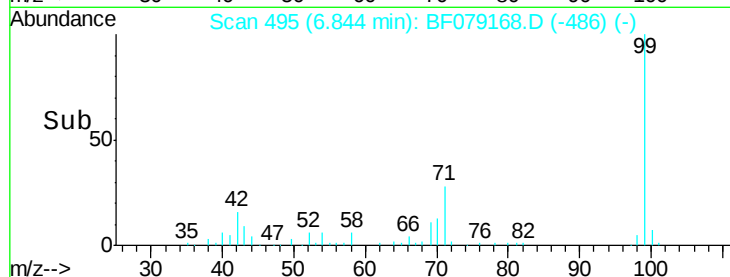
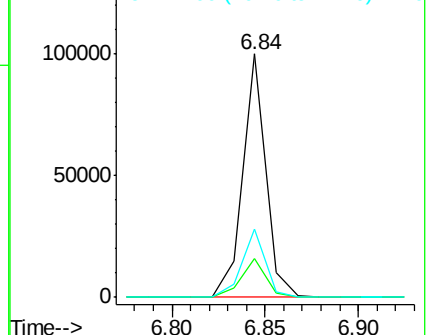
71 28.0 23.4 35.2



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

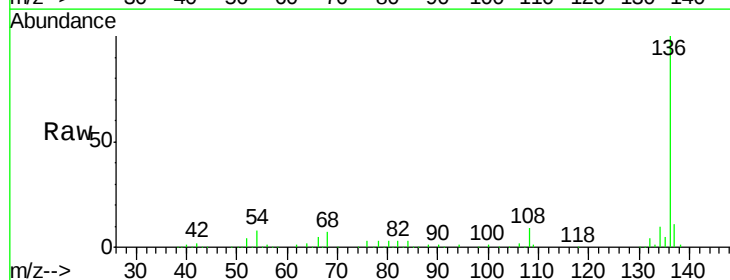
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 8.0 5.8 8.8

68 6.7 4.2 6.4#

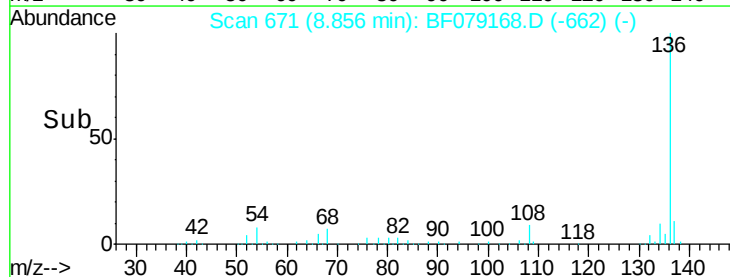
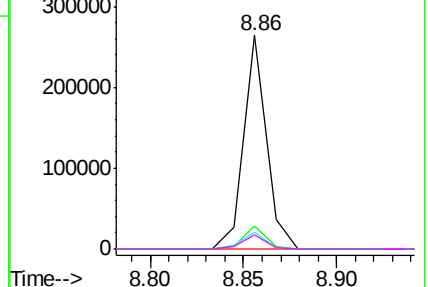


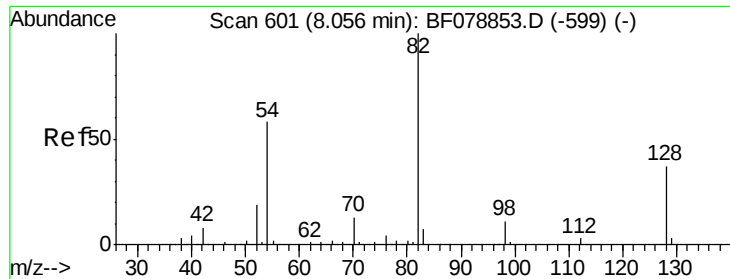
Abundance Ion 136.00 (135.70 to 136.70): E

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

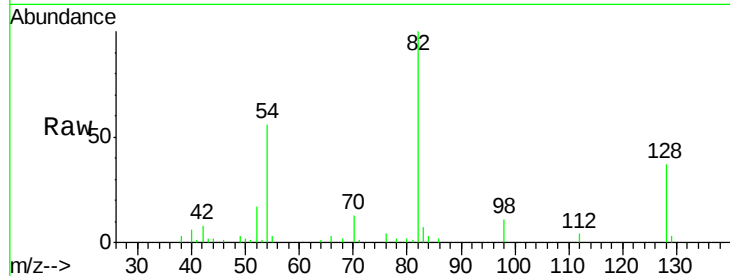




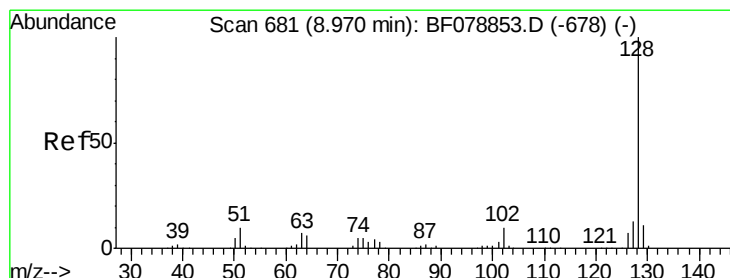
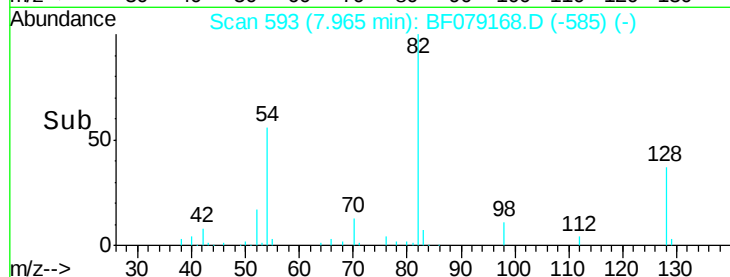
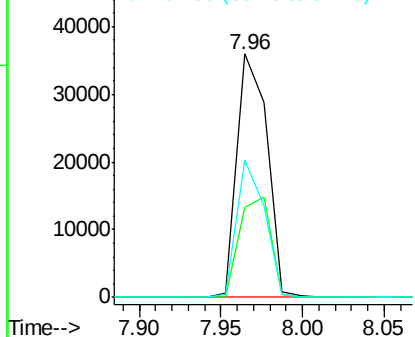
#23
Nitrobenzene-d5
Concen: 11.64 ng
RT: 7.96 min Scan# 593
Delta R.T. -0.01 min
Lab File: BF079168.D
Acq: 12 May 2015 20:14

Instrument :
BNA_F
ClientSampleId :
SB-48AS

Tot Ion	82	Resp	45698
Ion Ratio	Lower	Upper	
82	100		
128	36.8	30.0	45.0
54	56.3	46.4	69.6

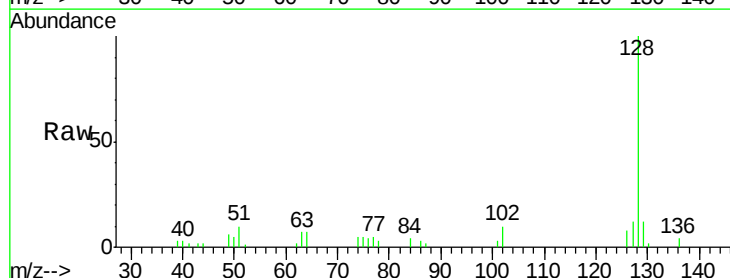


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

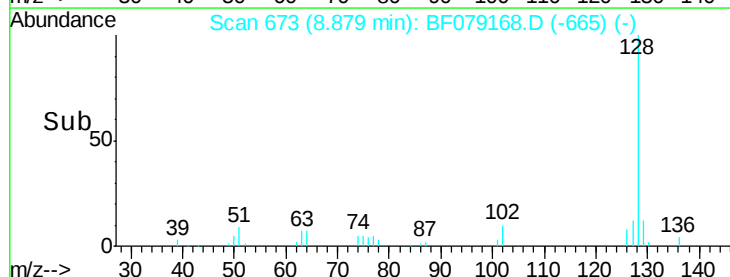
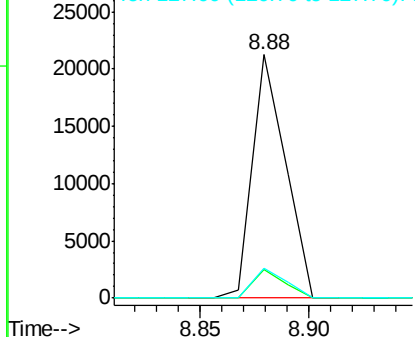


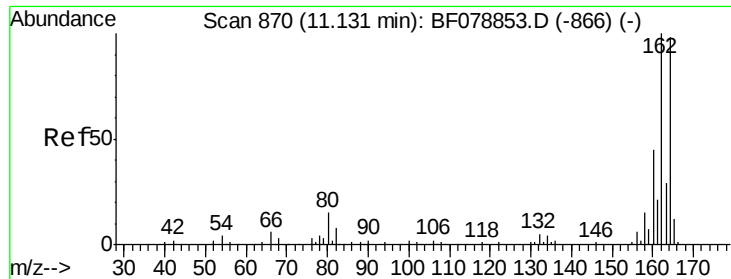
#31
Naphthalene
Concen: 2.09 ng
RT: 8.88 min Scan# 673
Delta R.T. -0.01 min
Lab File: BF079168.D
Acq: 12 May 2015 20:14

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): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

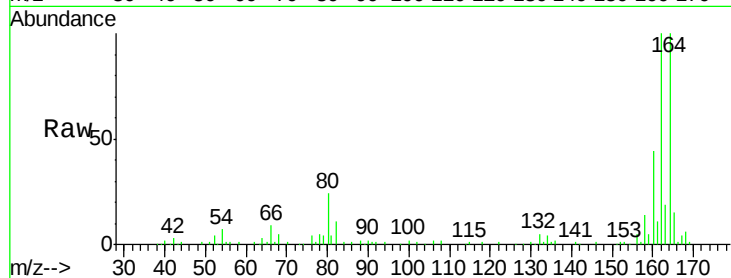




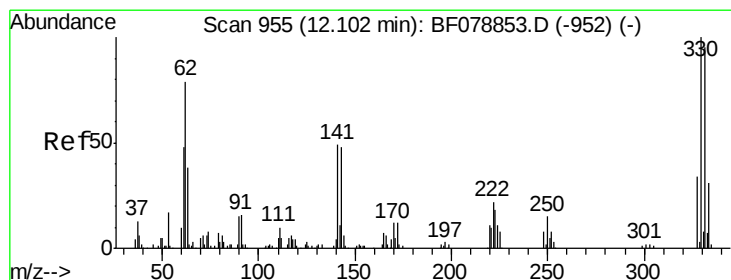
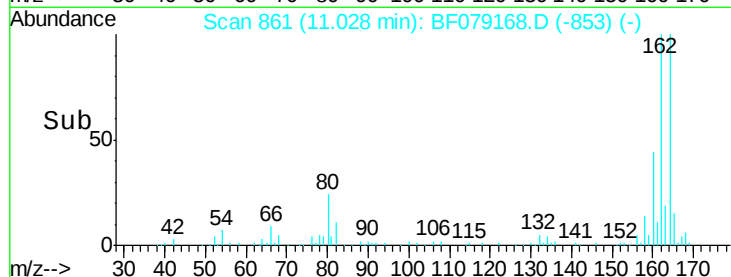
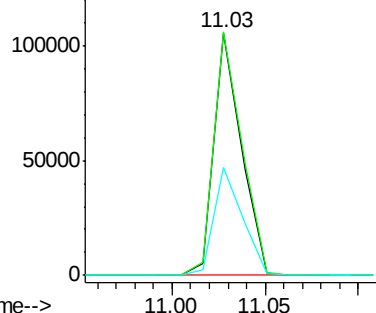
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 11.03 min Scan# 861
 Delta R.T. -0.01 min
 Lab File: BF079168.D
 Acq: 12 May 2015 20:14

Instrument :
 BNA_F
 ClientSampleId :
 SB-48AS

Tot Ion:164 Resp: 107968
 Ion Ratio Lower Upper
 164 100
 162 100.4 82.7 124.1
 160 44.4 35.8 53.8

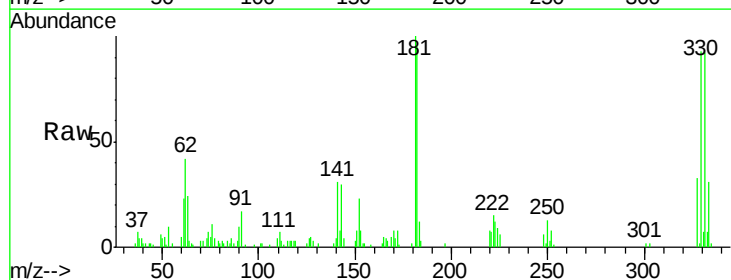


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

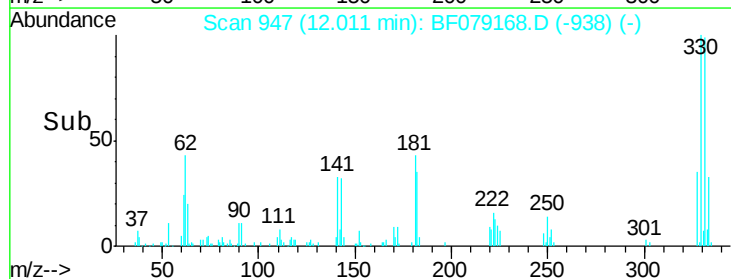
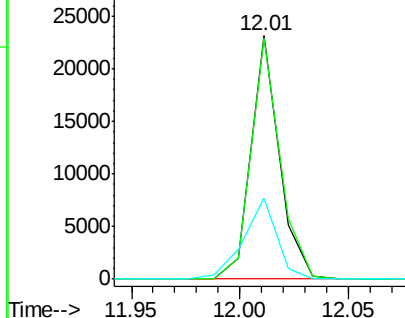


#41
 2,4,6-Tribromophenol
 Concen: 18.00 ng
 RT: 12.01 min Scan# 947
 Delta R.T. -0.00 min
 Lab File: BF079168.D
 Acq: 12 May 2015 20:14

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#



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

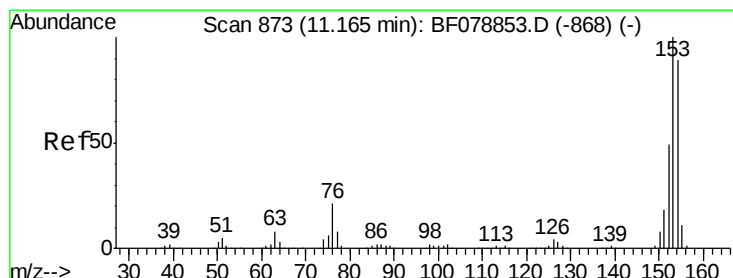
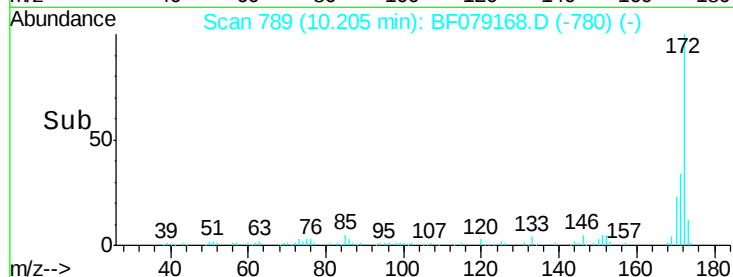
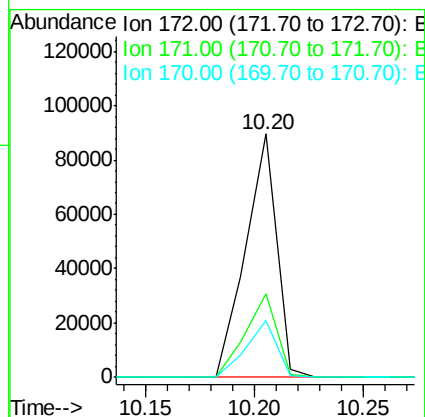
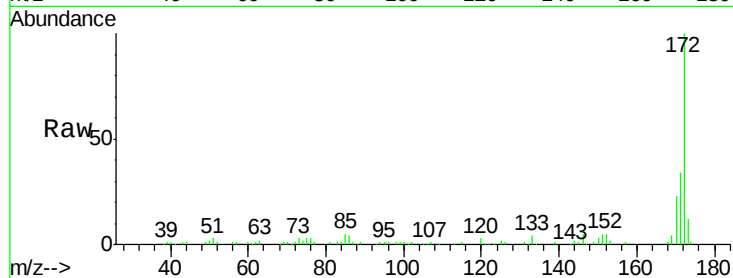




#44
 2-Fluorobiphenyl
 Concen: 11.44 ng
 RT: 10.20 min Scan# 789
 Delta R.T. -0.00 min
 Lab File: BF079168.D
 Acq: 12 May 2015 20:14

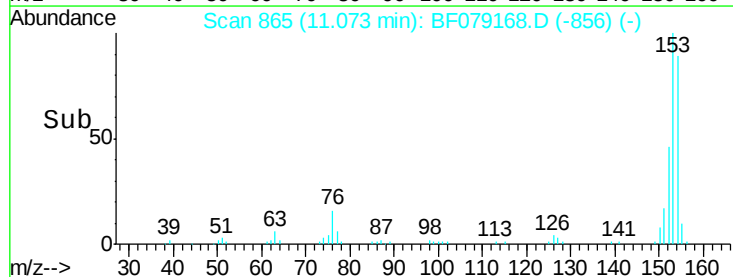
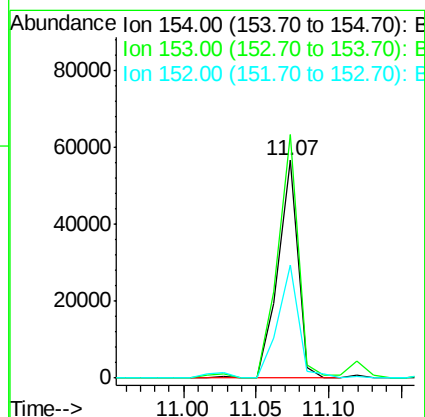
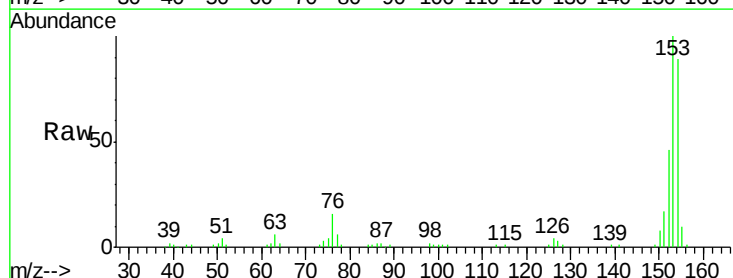
Instrument :
 BNA_F
 ClientSampleId :
 SB-48AS

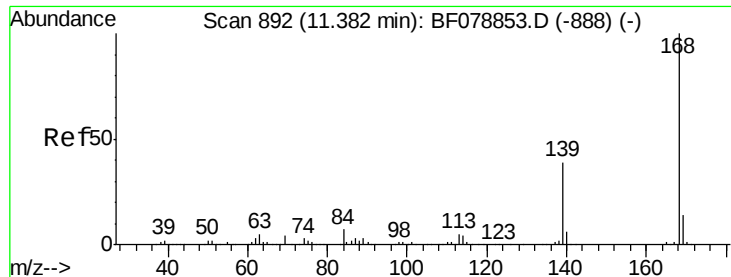
Tot Ion:172 Resp: 88677
 Ion Ratio Lower Upper
 172 100
 171 34.3 27.9 41.9
 170 23.4 19.4 29.0



#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

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

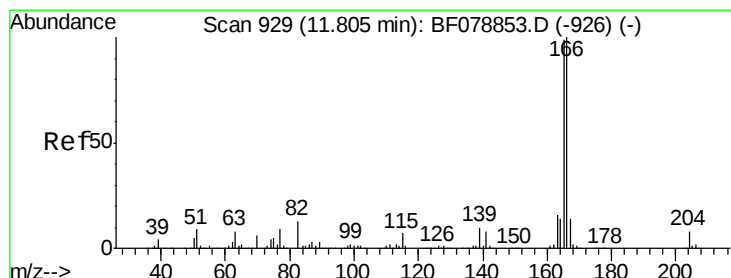
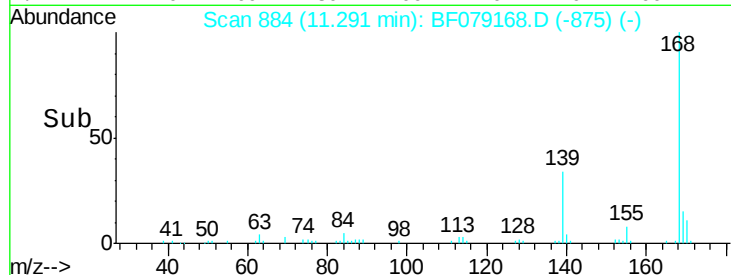
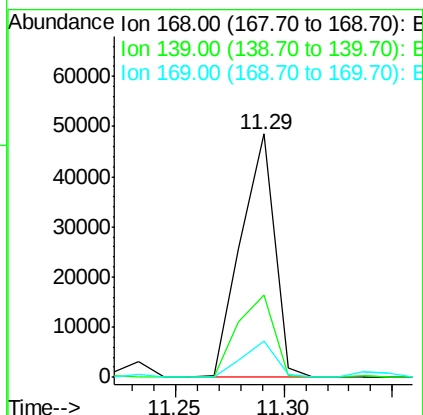
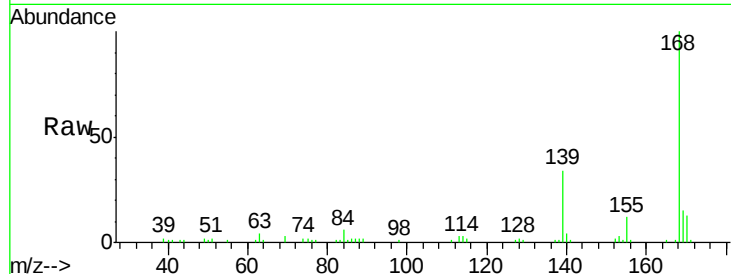




#54
Dibenzenofuran
Concen: 5.52 ng
RT: 11.29 min Scan# 884
Delta R.T. -0.00 min
Lab File: BF079168.D
Acq: 12 May 2015 20:14

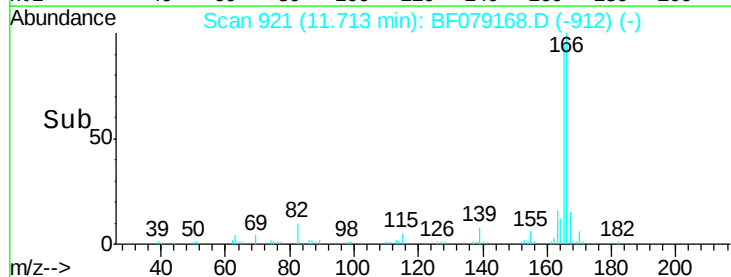
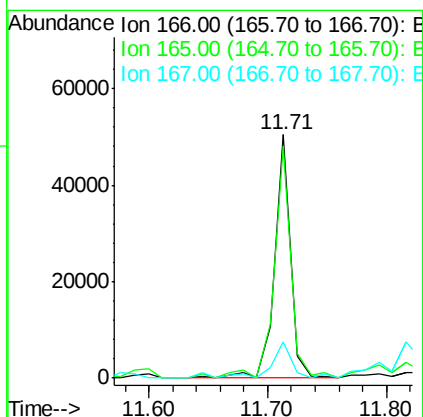
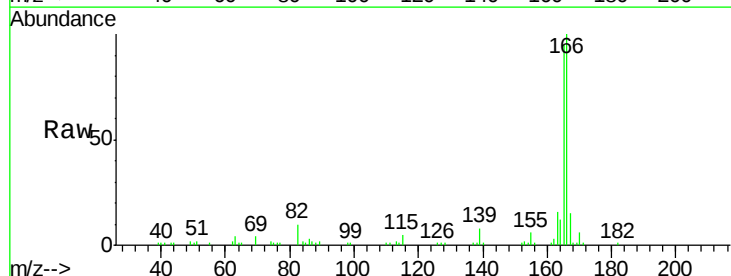
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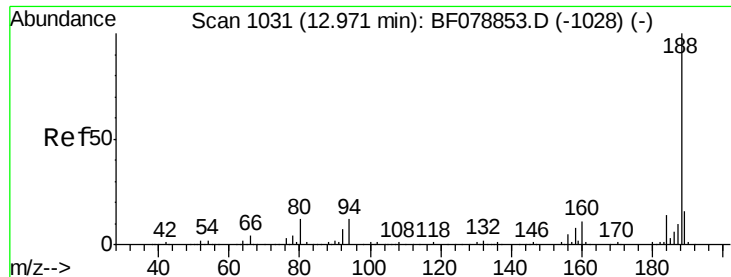
Tot Ion:168 Resp: 52301
Ion Ratio Lower Upper
168 100
139 33.7 31.0 46.4
169 15.0 10.6 16.0



#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

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

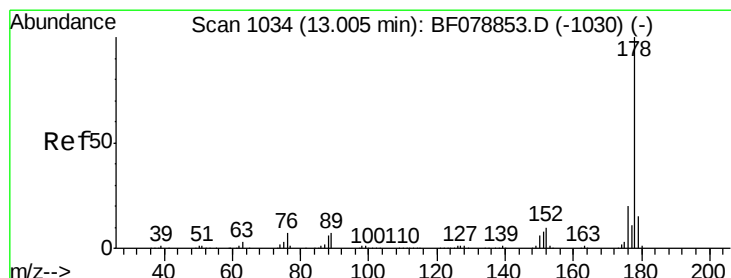
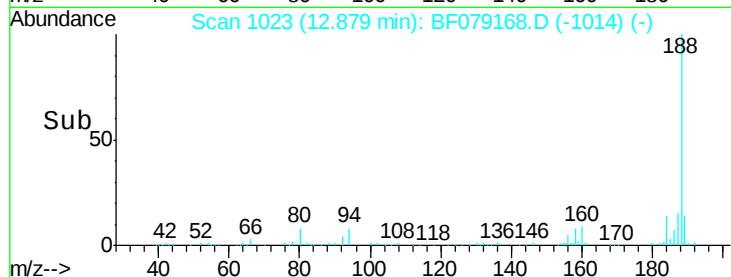
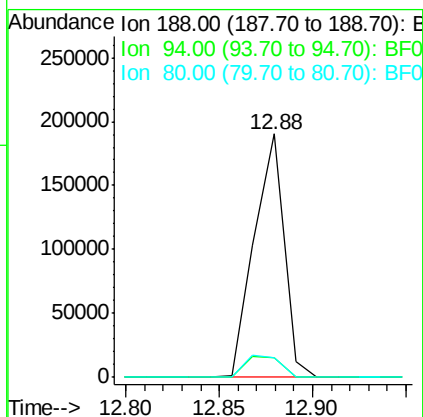
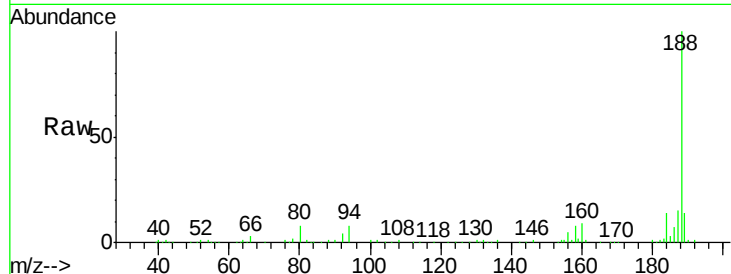




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.88 min Scan# 1023
Delta R.T. -0.00 min
Lab File: BF079168.D
Acq: 12 May 2015 20:14

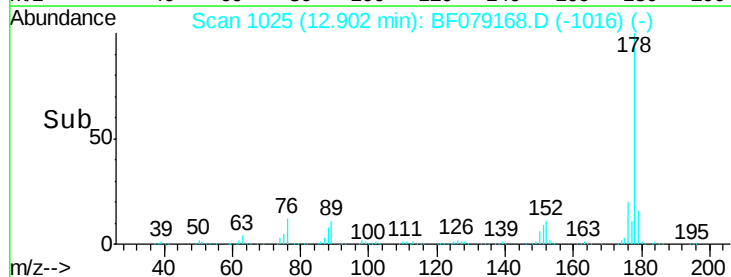
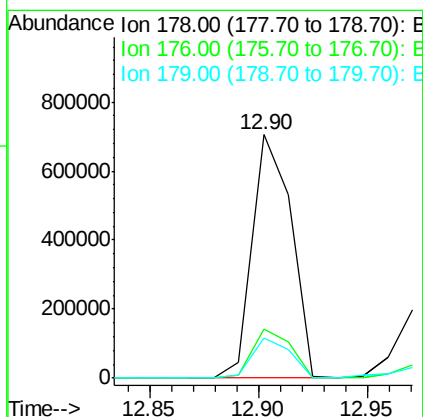
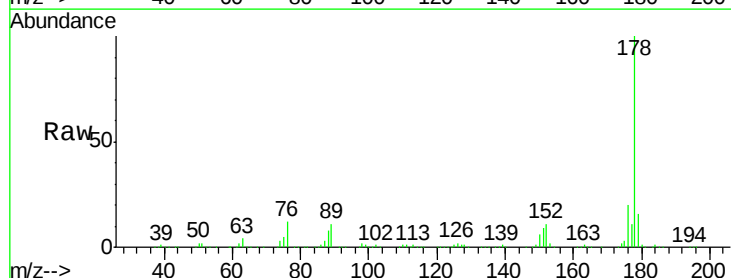
Instrument :
BNA_F
ClientSampled :
SB-48AS

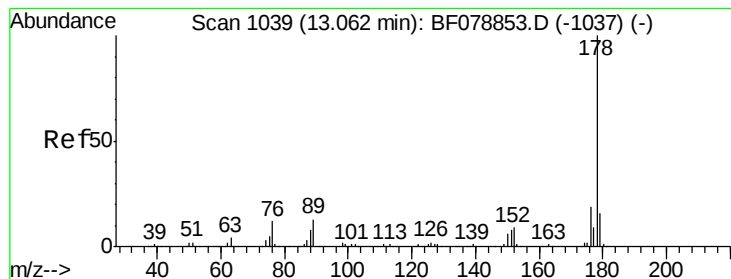
Tot Ion:188 Resp: 211701
Ion Ratio Lower Upper
188 100
94 8.0 8.2 12.2#
80 8.1 8.9 13.3#



#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

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





#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

Instrument :

BNA_F

ClientSampleId :

SB-48AS

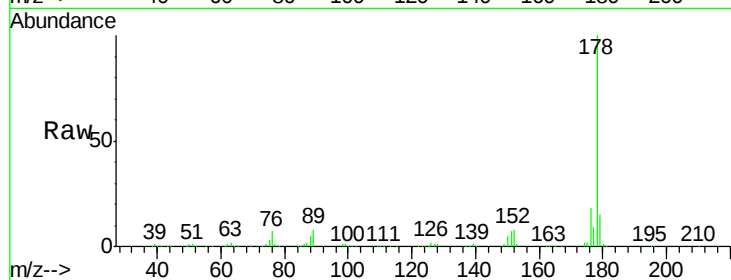
Tot Ion:178 Resp: 185697

Ion Ratio Lower Upper

178 100

176 18.4 15.5 23.3

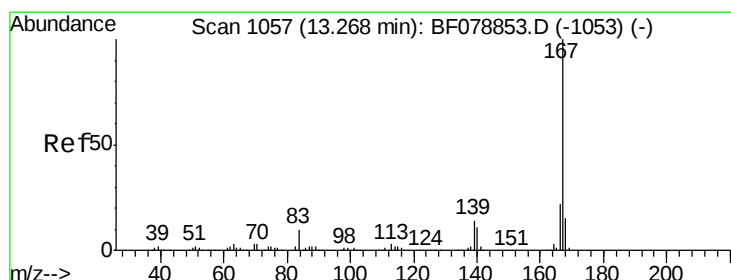
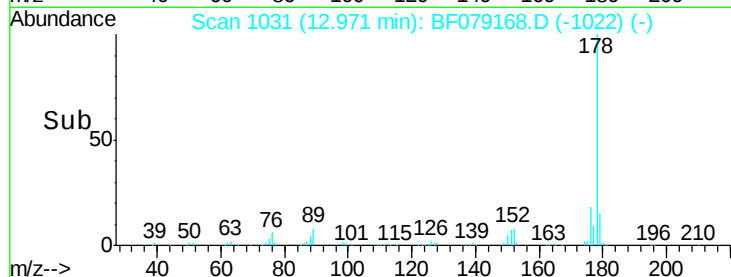
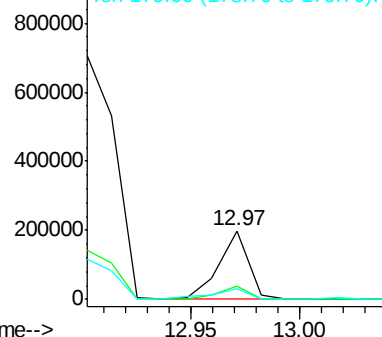
179 14.9 12.7 19.1



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



#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

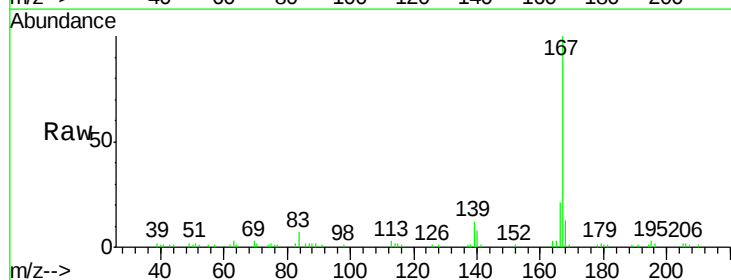
Tgt Ion:167 Resp: 47777

Ion Ratio Lower Upper

167 100

166 20.6 17.8 26.8

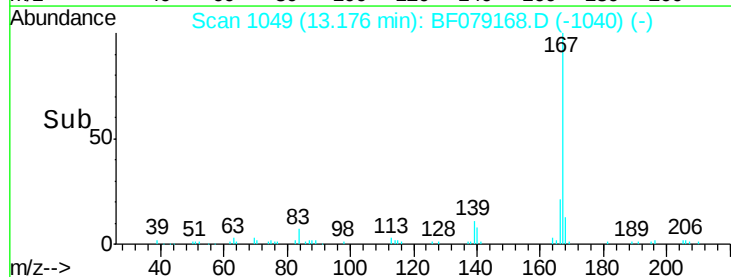
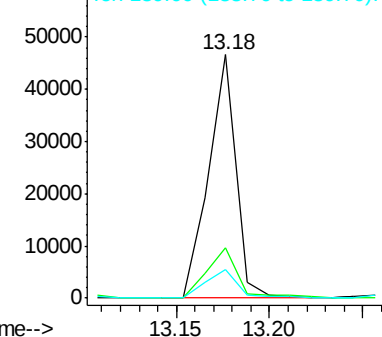
139 11.7 10.6 16.0

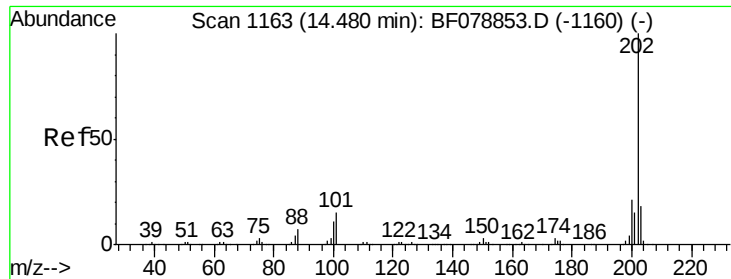


Abundance Ion 167.00 (166.70 to 167.70): E

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

Instrument :

BNA_F

ClientSampleId :

SB-48AS

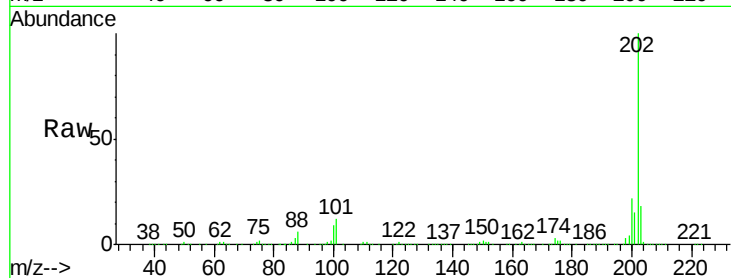
Tot Ion:202 Resp: 1044377

Ion Ratio Lower Upper

202 100

101 12.2 0.0 34.6

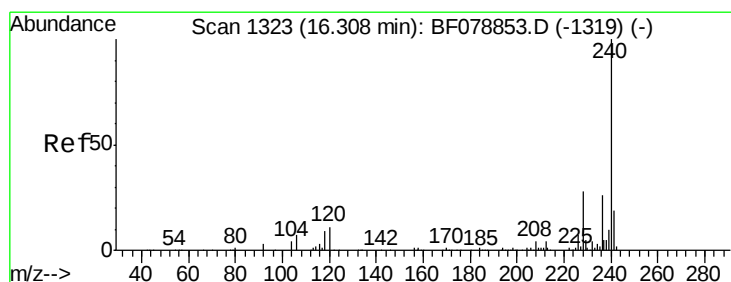
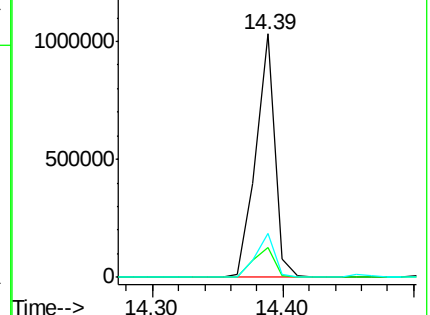
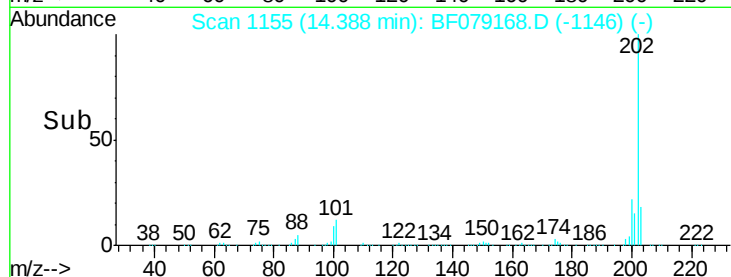
203 18.0 0.0 38.4



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

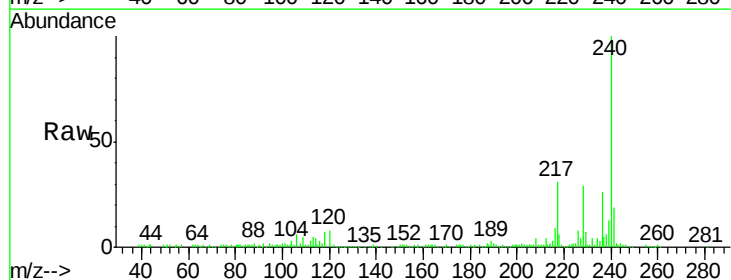
Tgt Ion:240 Resp: 218679

Ion Ratio Lower Upper

240 100

120 8.4 9.7 14.5#

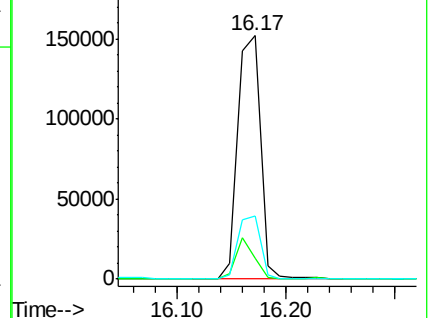
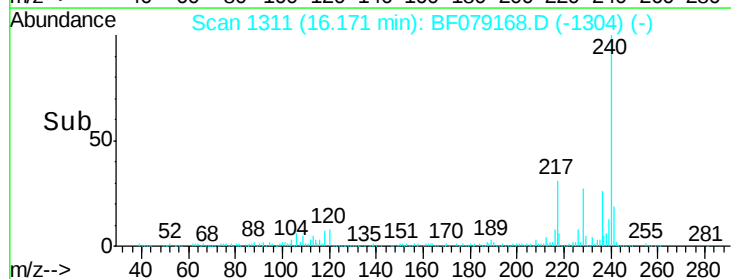
236 25.9 20.2 30.4

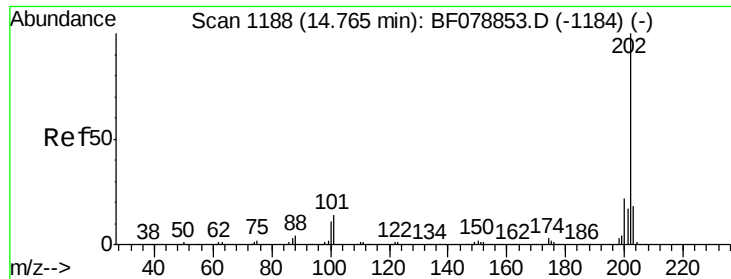


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

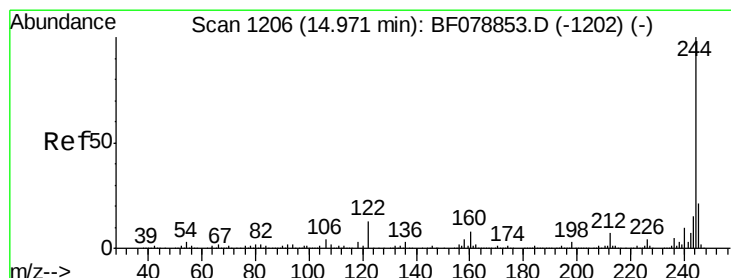
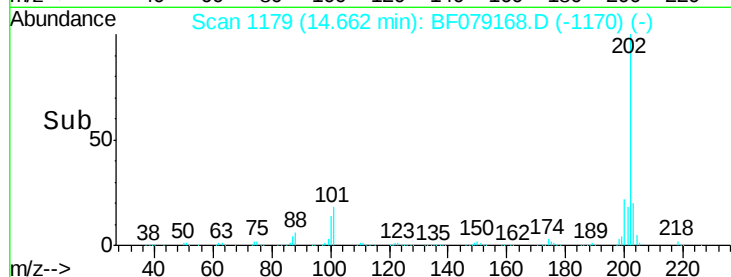
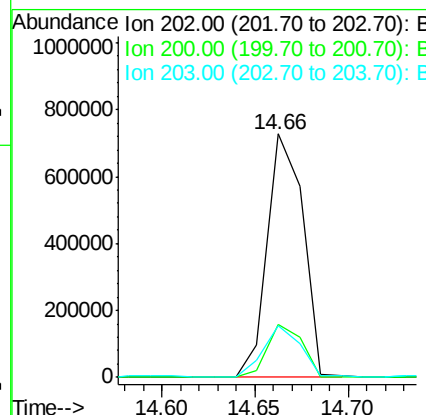
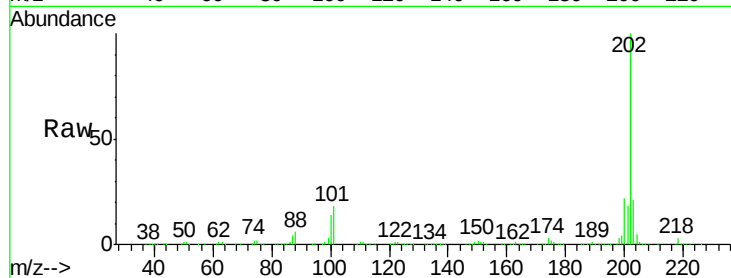




#77
Pvrene
Concen: 76.58 ng
RT: 14.66 min Scan# 1179
Delta R.T. -0.00 min
Lab File: BF079168.D
Acq: 12 May 2015 20:14

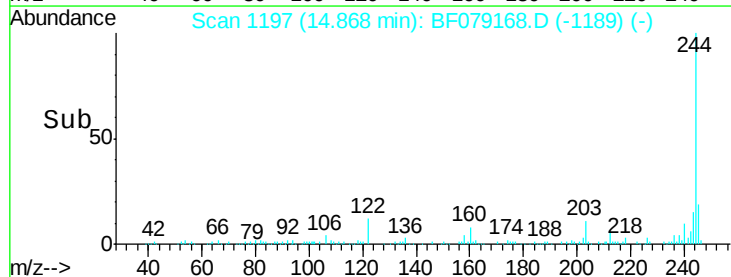
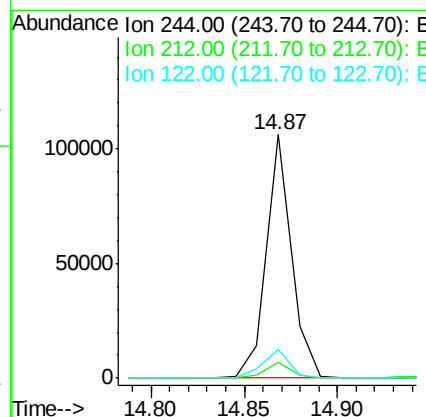
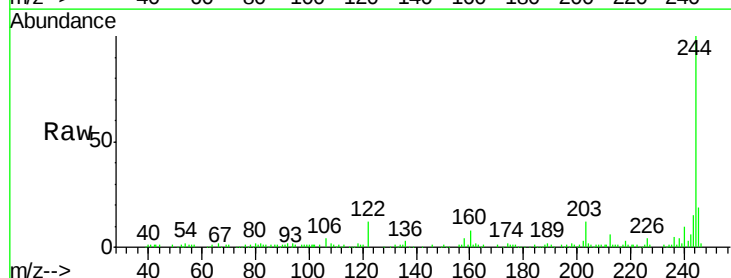
Instrument :
BNA_F
ClientSampleId :
SB-48AS

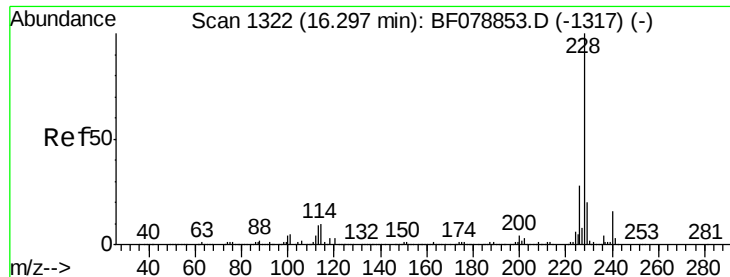
Tot Ion:202 Resp: 965032
Ion Ratio Lower Upper
202 100
200 21.8 17.5 26.3
203 21.0 13.9 20.9#



#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

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





#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

Instrument :

BNA_F

ClientSampleId :

SB-48AS

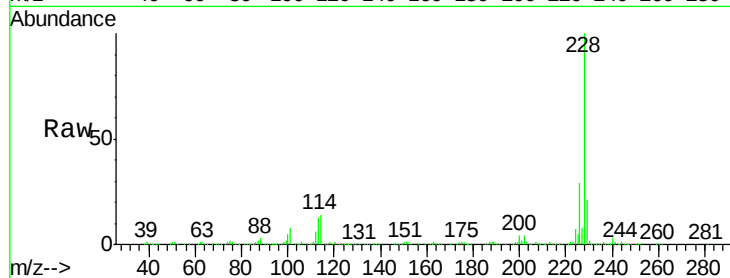
Tot Ion:228 Resp: 451083

Ion Ratio Lower Upper

228 100

226 29.5 22.6 33.8

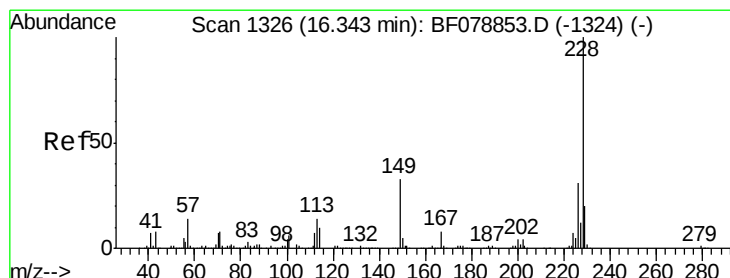
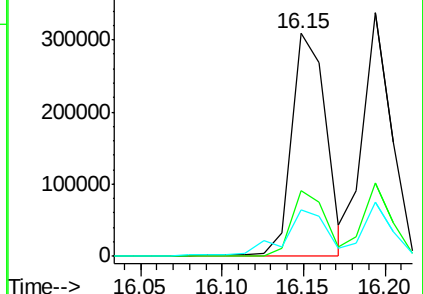
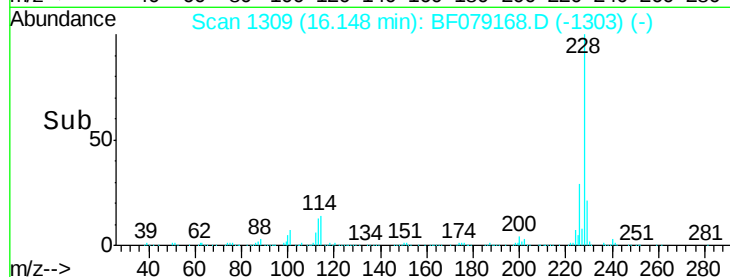
229 21.0 15.9 23.9



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

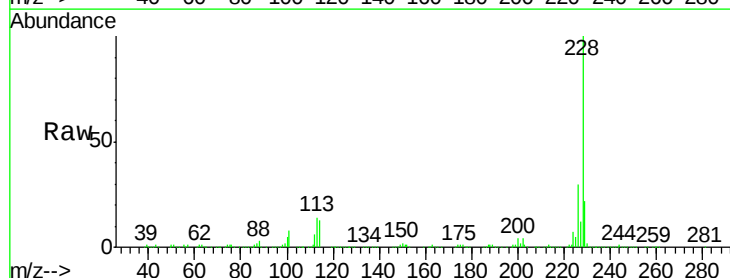
Tgt Ion:228 Resp: 405928

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

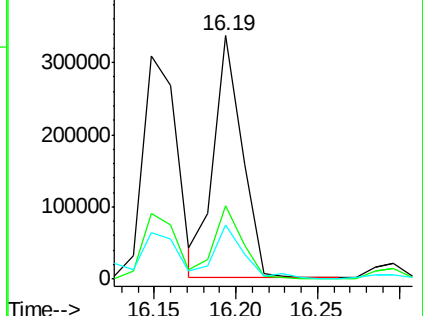
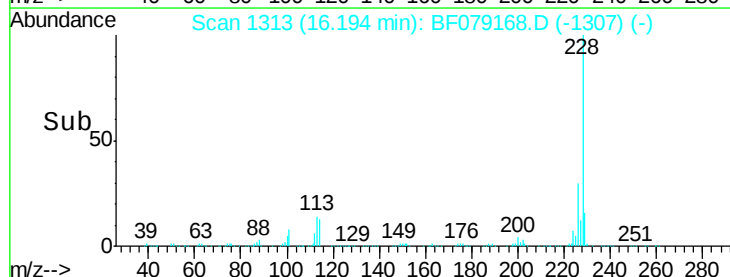
229 22.2 16.0 24.0

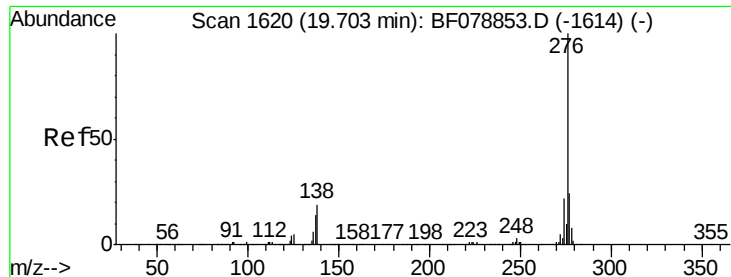


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

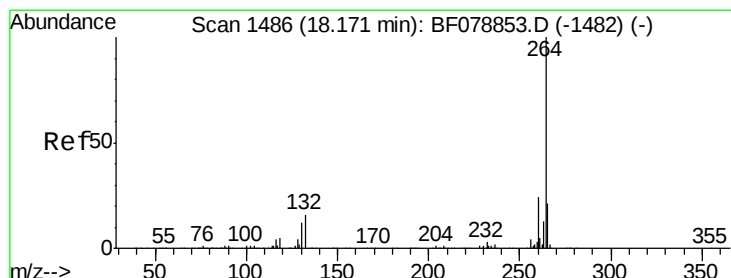
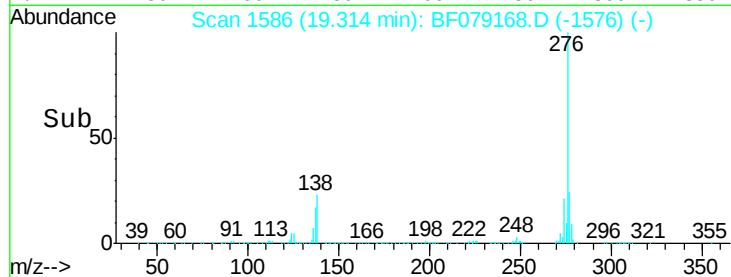
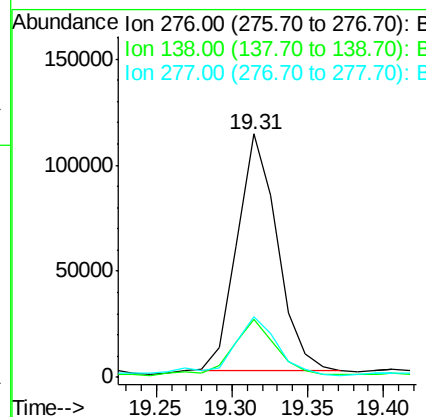
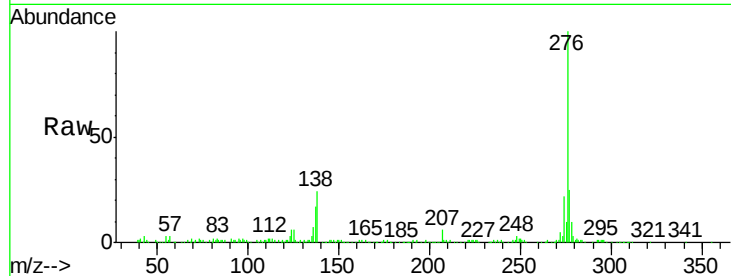




#85
Indeno(1,2,3-cd)pyrene
Concen: 14.12 ng/mL
RT: 19.31 min Scan# 1586
Delta R.T. -0.18 min
Lab File: BF079168.D
Acq: 12 May 2015 20:14

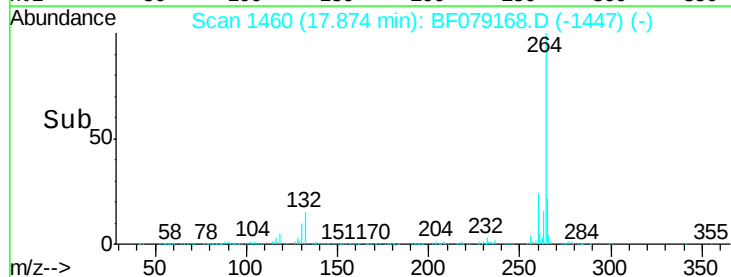
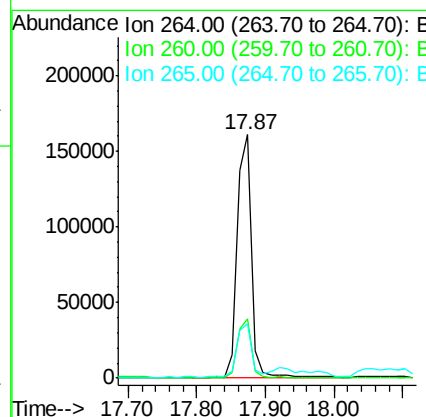
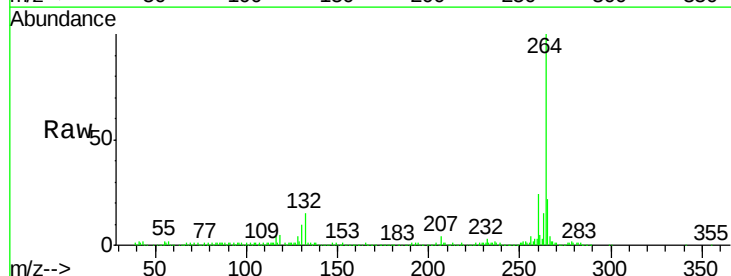
Instrument :
BNA_F
ClientSampleId :
SB-48AS

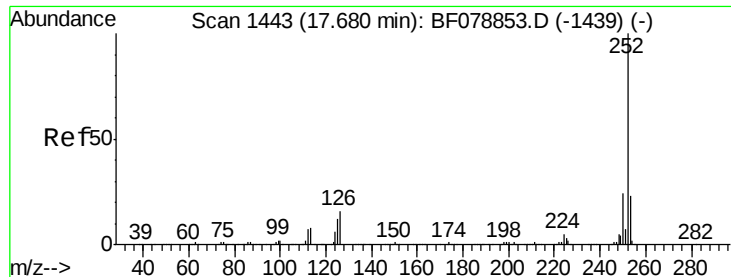
Tot Ion	Ratio	Lower	Upper
276	100		
138	3.0	0.0	0.0#
277	2.2	0.0	0.0#



#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	Ratio	Lower	Upper
264	100		
260	24.4	19.4	29.2
265	22.2	18.3	27.5





#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

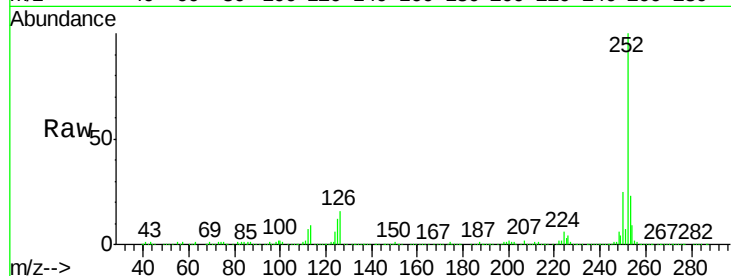
Tot Ion:252 Resp: 523978

Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

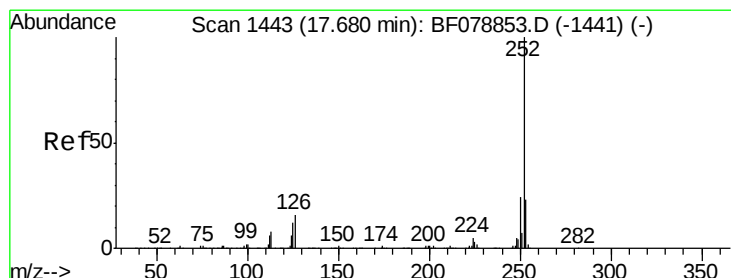
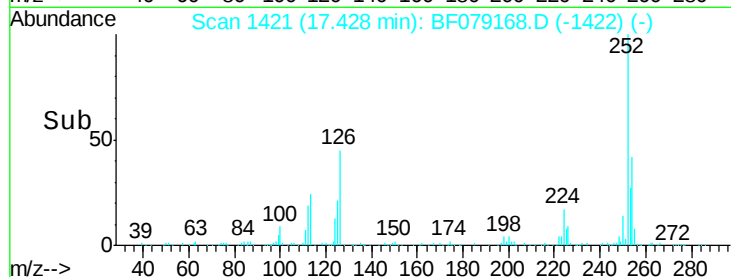
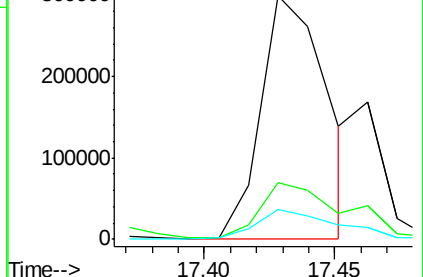
125 12.5 9.5 14.3



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: 10.82 ng m

RT: 17.46 min Scan# 1424

Delta R.T. -0.11 min

Lab File: BF079168.D

Acq: 12 May 2015 20:14

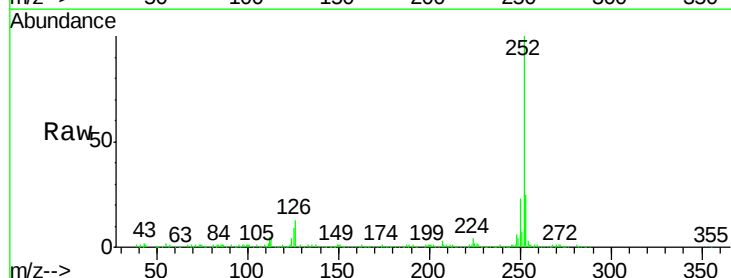
Tgt Ion:252 Resp: 138723

Ion Ratio Lower Upper

252 100

253 25.1 18.1 27.1

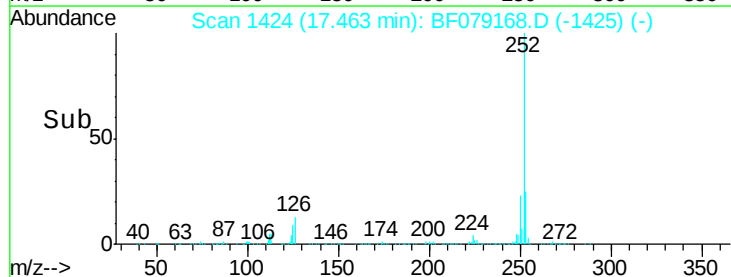
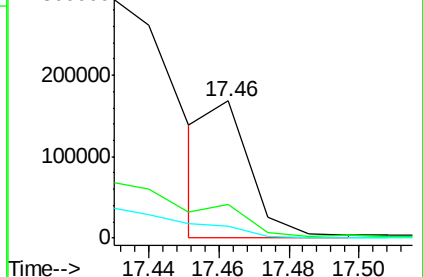
125 9.0 10.0 15.0#

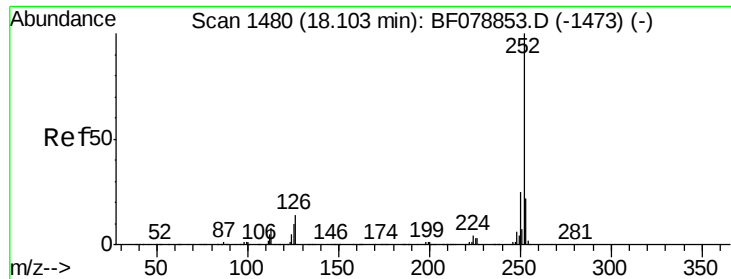


Abundance Ion 252.00 (251.70 to 252.70): E

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

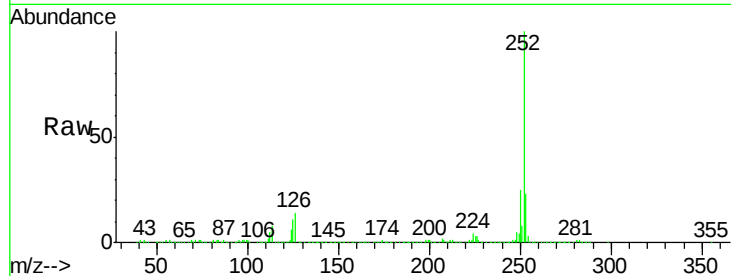
Tot Ion:252 Resp: 358167

Ion Ratio Lower Upper

252 100

253 23.2 17.3 25.9

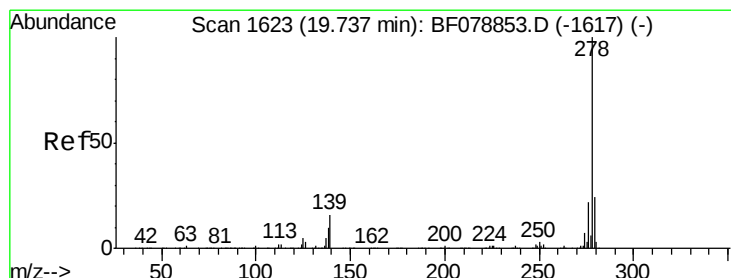
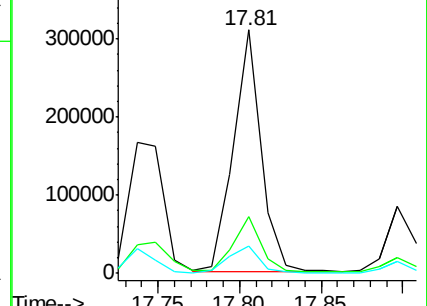
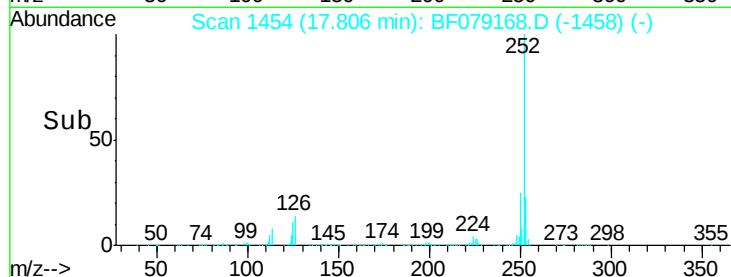
125 11.0 7.0 10.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#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

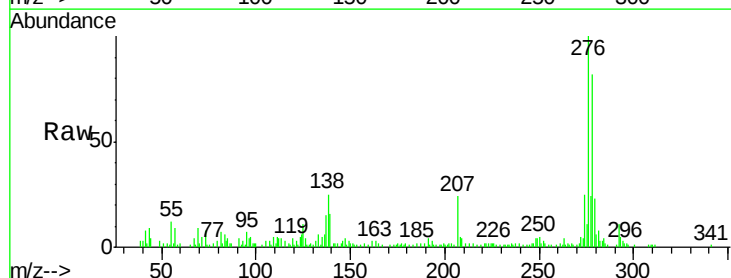
Tgt Ion:278 Resp: 47624

Ion Ratio Lower Upper

278 100

139 20.1 12.8 19.2#

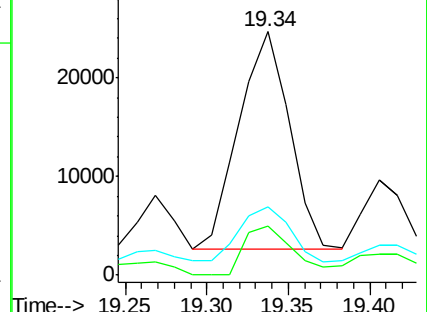
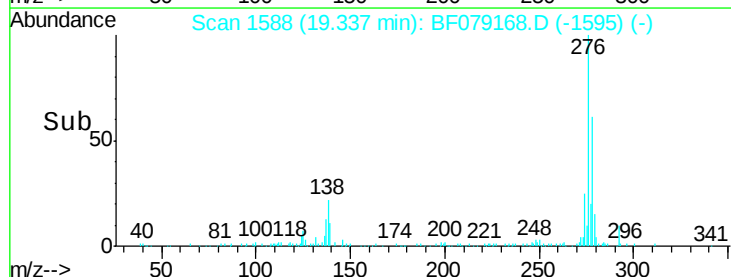
279 28.1 19.6 29.4

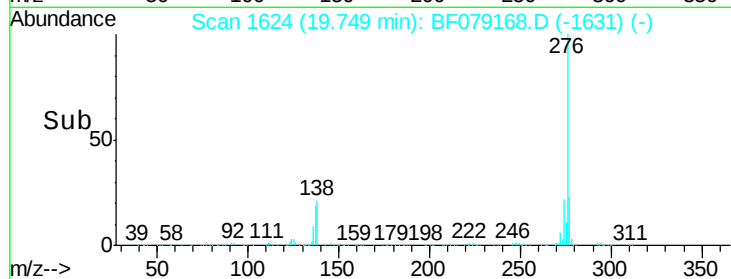
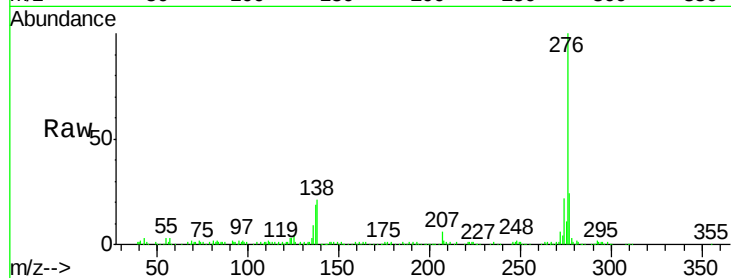
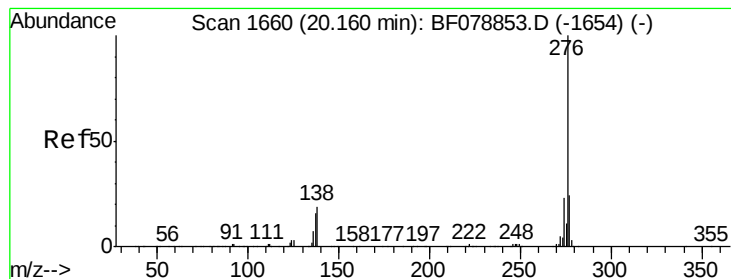


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,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

Tot Ion: 276 Resp: 217012

Ion Ratio Lower Upper

276 100

277 23.7 18.6 28.0

138 21.4 17.4 26.0

