

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052215\
 Data File : BF079470.D
 Acq On : 23 May 2015 11:44
 Operator : TP/IZ
 Sample : G2371-03
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SW-023

Quant Time: May 25 07:02:43 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 25 06:56:43 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.05	152	79480	20.00	ng	0.00
21) Naphthalene-d8	8.63	136	320307	20.00	ng	0.00
38) Acenaphthene-d10	10.80	164	151542	20.00	ng	0.00
63) Phenanthrene-d10	12.63	188	282934	20.00	ng	0.00
75) Chrysene-d12	15.92	240	287319	20.00	ng	0.01
86) Perylene-d12	17.70	264	284450	20.00	ng	0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	0.00	99	0	0.00	ng	
23) Nitrobenzene-d5	7.75	82	229834	41.24	ng	0.00
41) 2,4,6-Tribromophenol	11.78	330	106051	64.69	ng	0.00
44) 2-Fluorobiphenyl	9.98	172	698259	64.19	ng	0.00
78) Terphenyl-d14	14.63	244	727348	60.61	ng	0.00

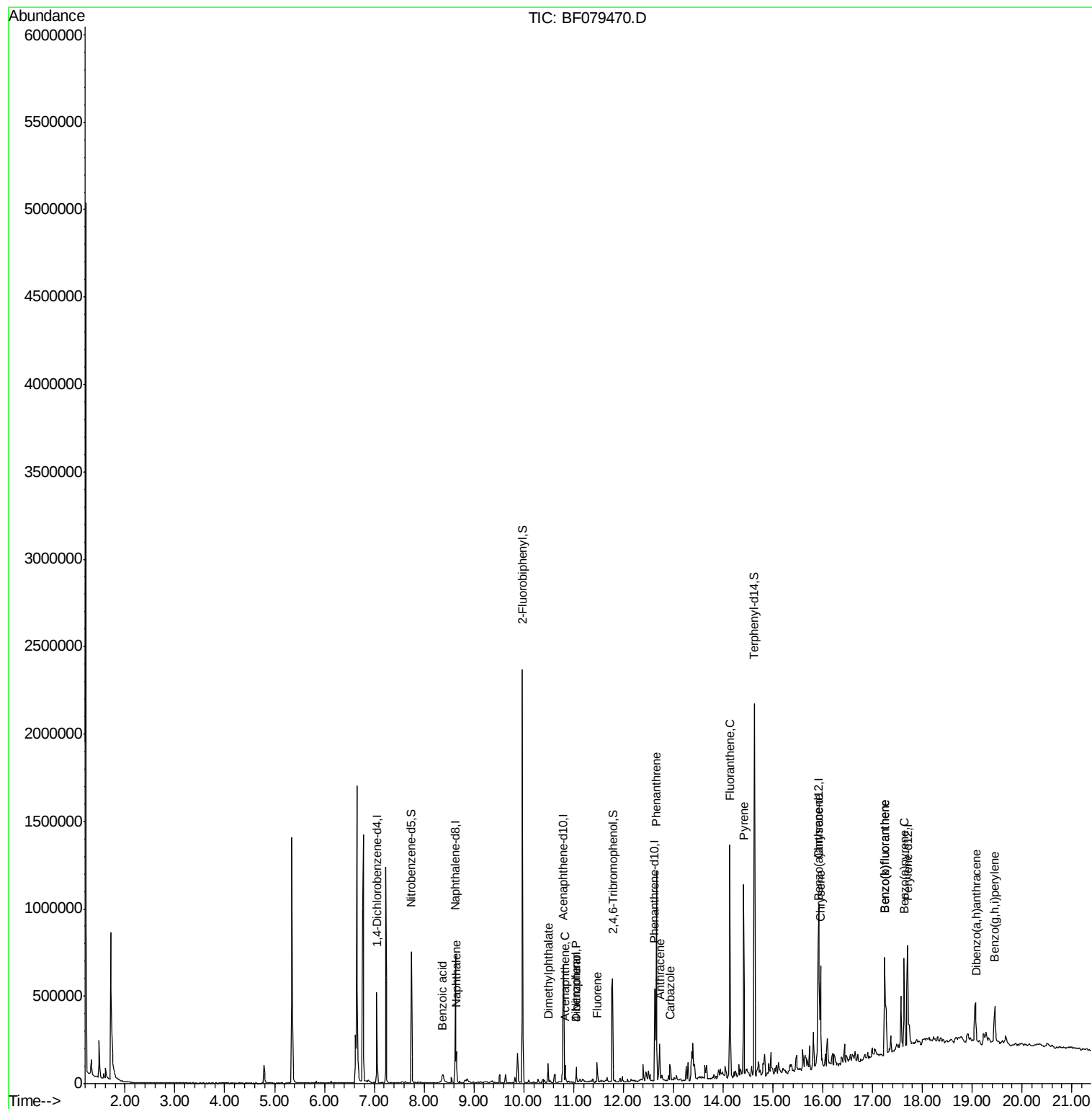
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.65	128	89432	5.86	ng	99
32) Benzoic acid	8.38	122	664	6.51	ng	# 82
49) Dimethylphthalate	10.49	163	57837	5.20	ng	# 97
51) Acenaphthene	10.83	154	22933	2.49	ng	98
54) Dibenzofuran	11.05	168	37359	2.81	ng	100
55) 4-Nitrophenol	11.05	139	14507	6.68	ng	# 1
57) Fluorene	11.47	166	34008	3.12	ng	98
70) Phenanthrene	12.66	178	458864	28.99	ng	99
71) Anthracene	12.73	178	107581	6.93	ng	98
72) Carbazole	12.94	167	52987	3.58	ng	97
74) Fluoranthene	14.14	202	560169	33.96	ng	98
77) Pyrene	14.41	202	499954	30.20	ng	96
80) Benzo(a)anthracene	15.91	228	298576	18.98	ng	96
82) Chrysene	15.95	228	243934	16.12	ng	98
87) Benzo(b)fluoranthene	17.25	252	464010	29.80	ng	99
88) Benzo(k)fluoranthene	17.25	252	464010	30.79	ng	# 96
89) Benzo(a)pyrene	17.63	252	251158	17.52	ng	97
90) Dibenzo(a,h)anthracene	19.07	278	47349	3.11	ng	# 92
91) Benzo(g,h,i)perylene	19.45	276	167627	10.98	ng	96

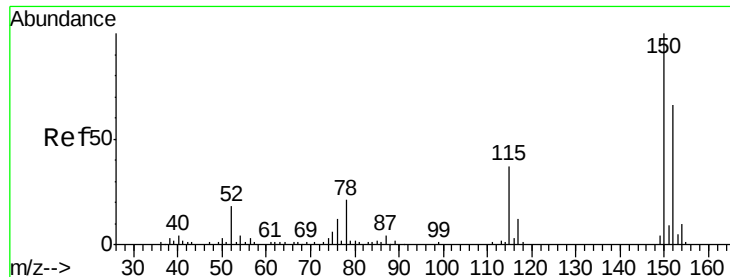
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052215\
Data File : BF079470.D
Acq On : 23 May 2015 11:44
Operator : TP/IZ
Sample : G2371-03
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SW-023

Quant Time: May 25 07:02:43 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 25 06:56:43 2015
Response via : Initial Calibration

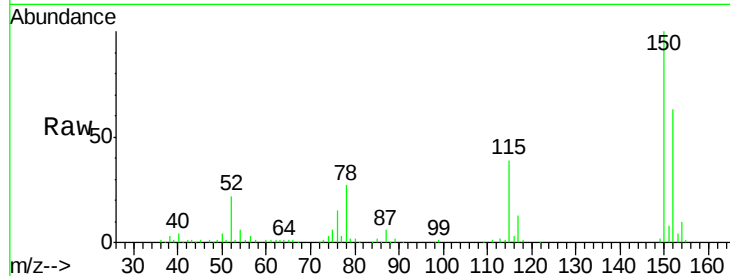




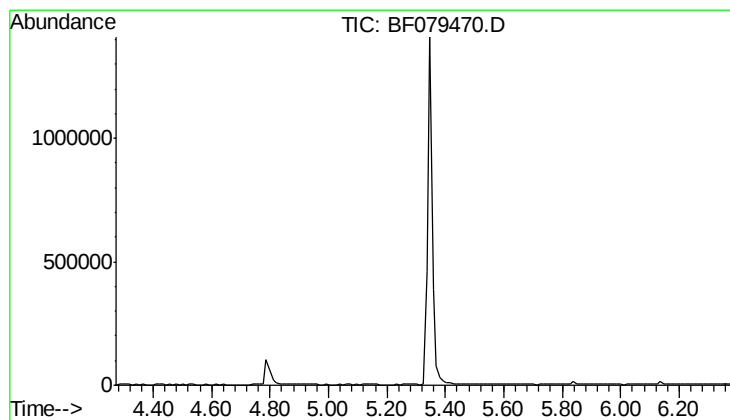
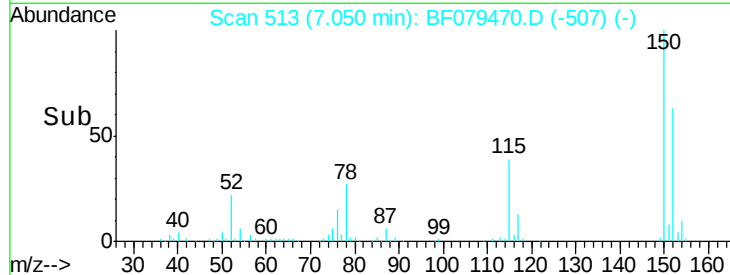
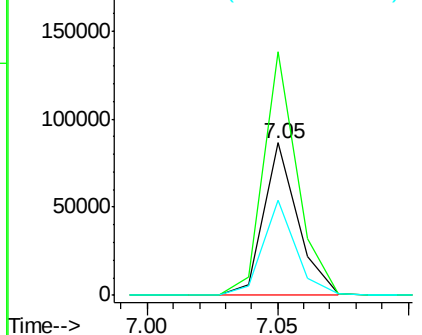
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.05 min Scan# 513
 Delta R.T. -0.00 min
 Lab File: BF079470.D
 Acq: 23 May 2015 11:44

Instrument :
 BNA_F
 ClientSampleId :
 SW-023

Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.6	123.8	185.8
115	62.6	49.4	74.0

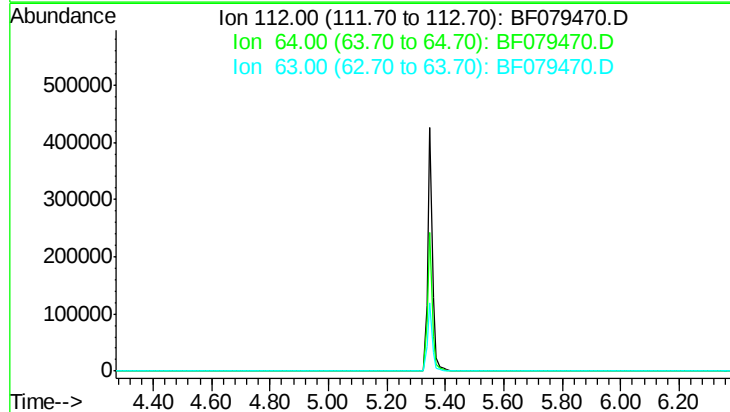


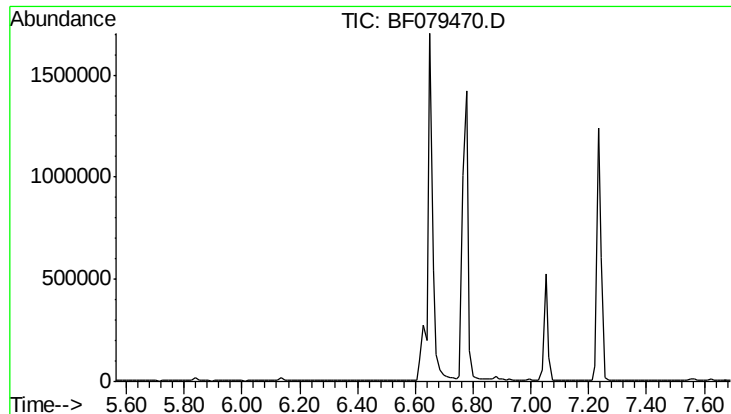
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 0.00 ng
 Expected RT: 5.32 min
 Lab File: BF079470.D
 Acq: 23 May 2015 11:44

Tgt Ion	Sig	Exp Ratio
112	100	
64	55.2	
63	28.4	





#7

Phenol-d6

Concen: 0.00 ng

Expected RT: 6.63 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

Instrument :

BNA_F

ClientSampleId :

SW-023

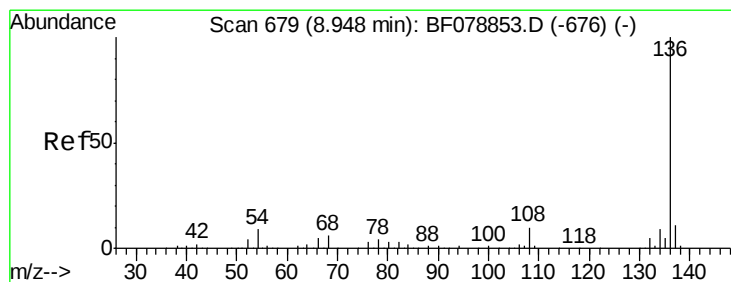
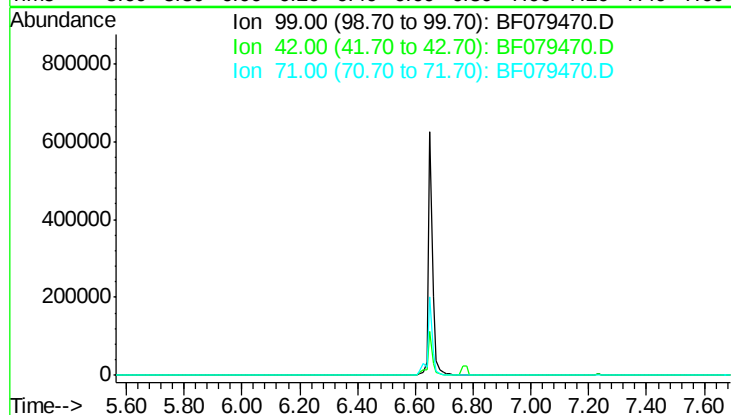
Tgt Ion: 99

Sig Exp Ratio

99 100

42 21.4

71 32.9



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.63 min Scan# 651

Delta R.T. -0.00 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

Tgt Ion:136 Resp: 320307

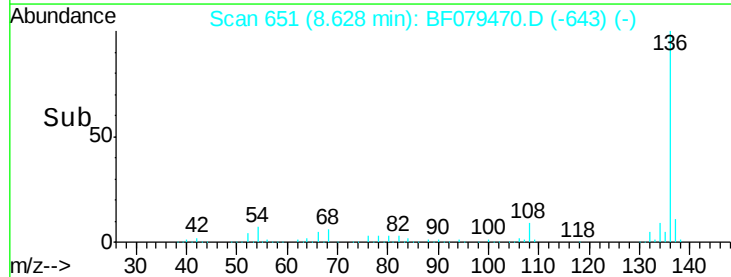
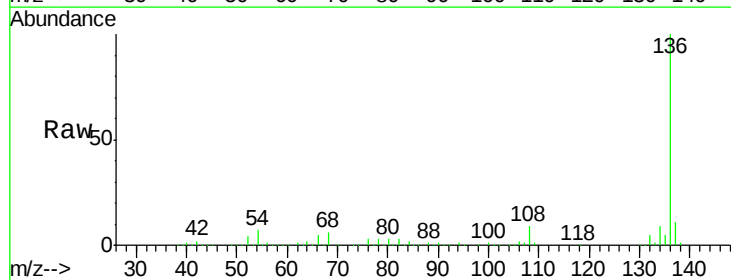
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 7.5 6.9 10.3

68 6.0 4.9 7.3

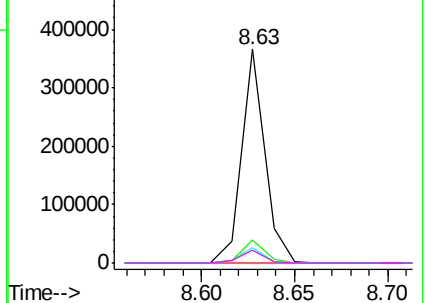


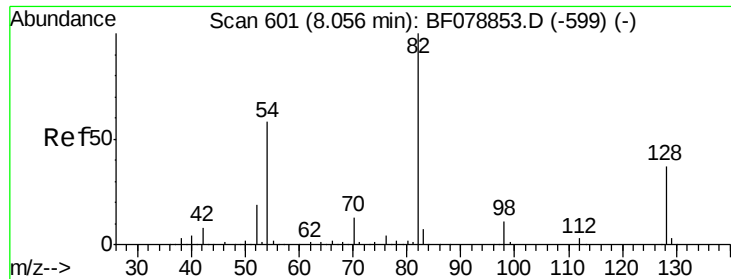
Abundance Ion 136.00 (135.70 to 136.70): E

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

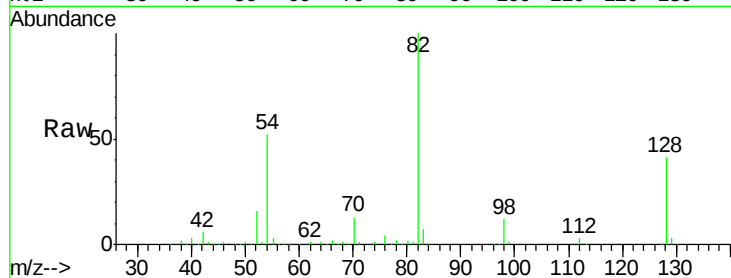




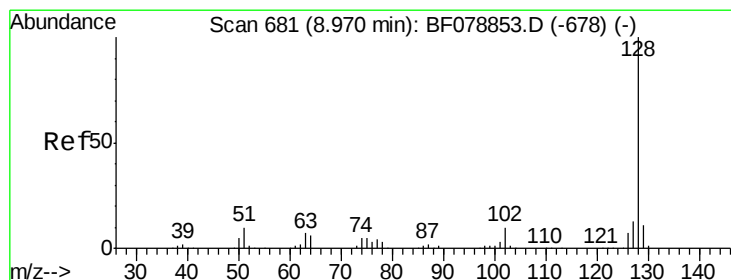
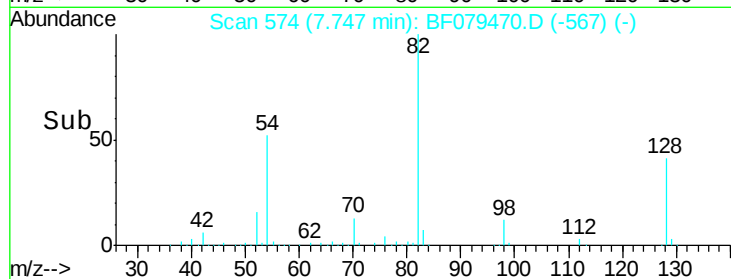
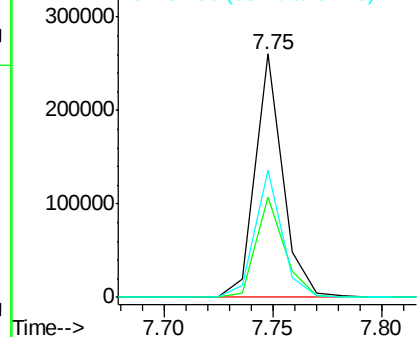
#23
 Nitrobenzene-d5
 Concen: 41.24 ng
 RT: 7.75 min Scan# 574
 Delta R.T. -0.00 min
 Lab File: BF079470.D
 Acq: 23 May 2015 11:44

Instrument :
 BNA_F
 ClientSampleId :
 SW-023

Tgt Ion: 82 Resp: 229834
 Ion Ratio Lower Upper
 82 100
 128 41.2 29.7 44.5
 54 52.2 46.2 69.4

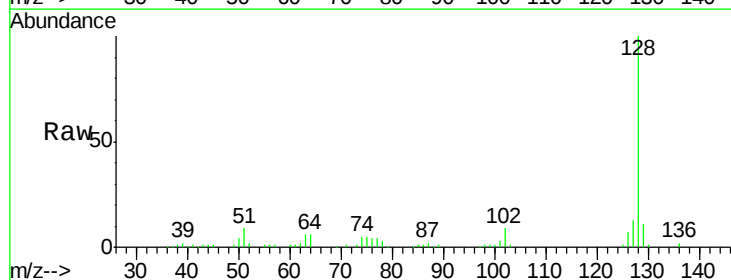


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

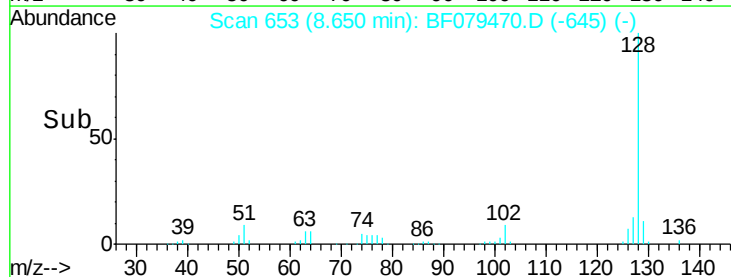
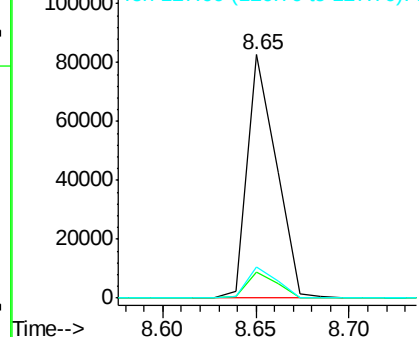


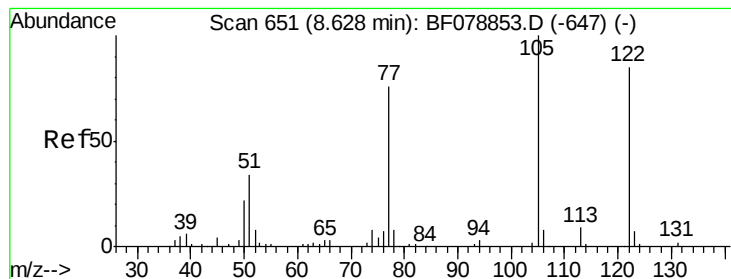
#31
 Naphthalene
 Concen: 5.86 ng
 RT: 8.65 min Scan# 653
 Delta R.T. -0.00 min
 Lab File: BF079470.D
 Acq: 23 May 2015 11:44

Tgt Ion: 128 Resp: 89432
 Ion Ratio Lower Upper
 128 100
 129 10.8 9.2 13.8
 127 12.7 10.3 15.5



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





#32

Benzoic acid

Concen: 6.51 ng

RT: 8.38 min Scan# 629

Delta R.T. -0.00 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

Instrument :

BNA_F

ClientSampleId :

SW-023

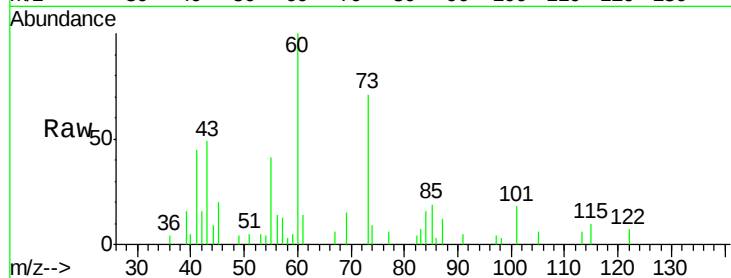
Tgt Ion:122 Resp: 664

Ion Ratio Lower Upper

122 100

105 92.4 100.7 140.7#

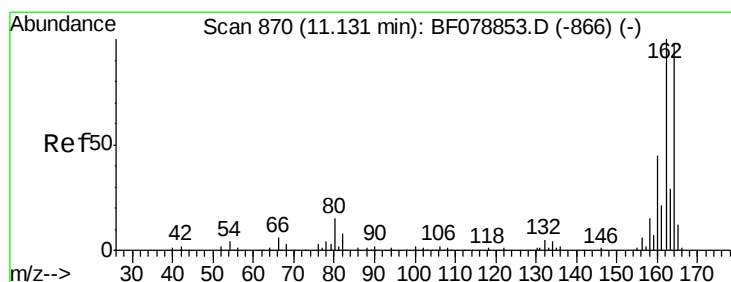
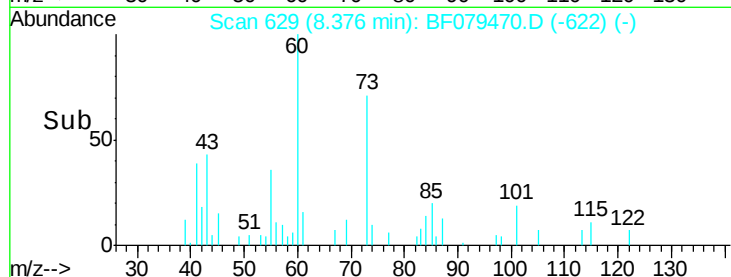
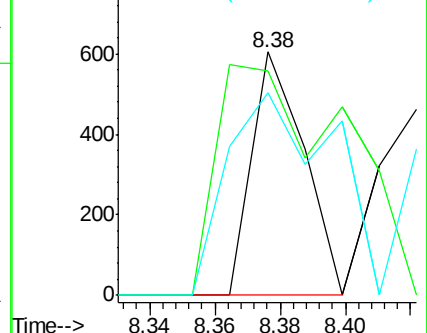
77 83.5 72.0 112.0



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): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.80 min Scan# 841

Delta R.T. -0.00 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

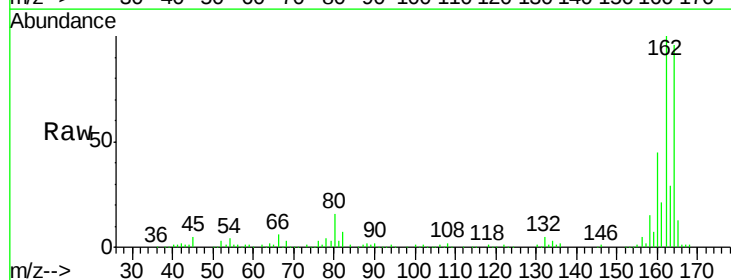
Tgt Ion:164 Resp: 151542

Ion Ratio Lower Upper

164 100

162 104.2 81.4 122.0

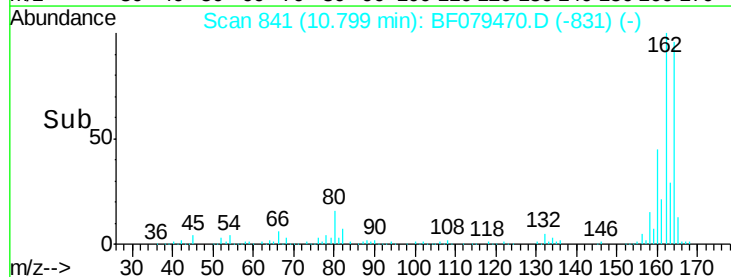
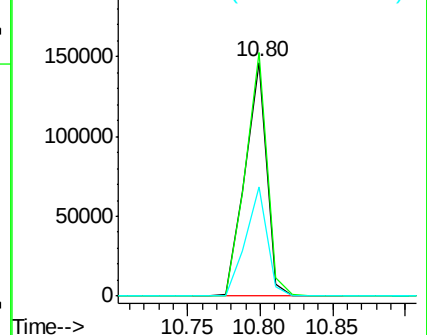
160 46.5 36.6 54.8

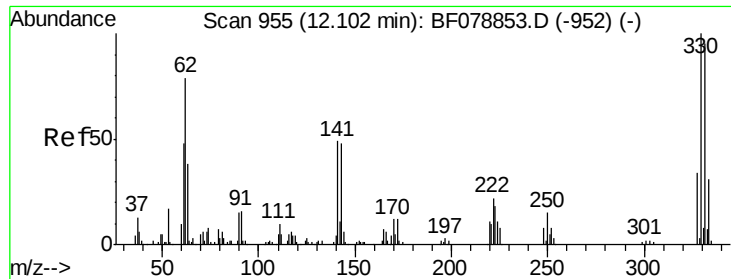


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

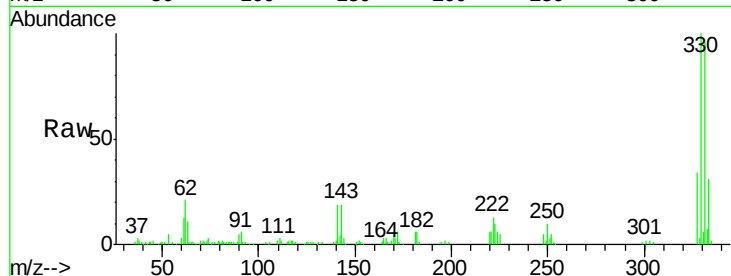




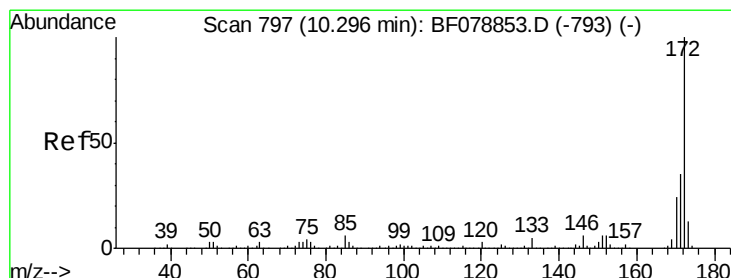
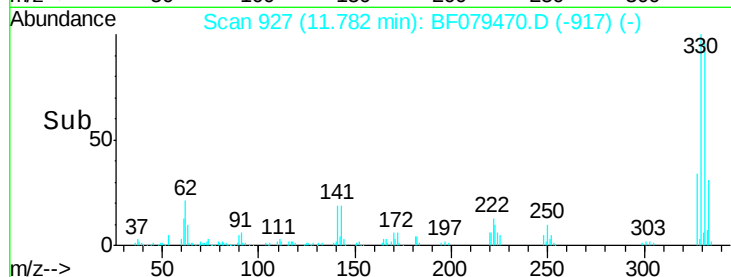
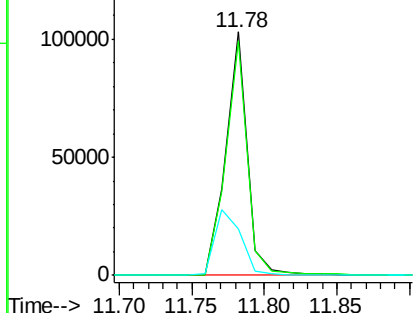
#41
 2,4,6-Tribromophenol
 Concen: 64.69 ng
 RT: 11.78 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: BF079470.D
 Acq: 23 May 2015 11:44

Instrument :
 BNA_F
 ClientSampled :
 SW-023

Tgt Ion:330 Resp: 106051
 Ion Ratio Lower Upper
 330 100
 332 97.0 76.9 115.3
 141 33.5 27.8 41.8

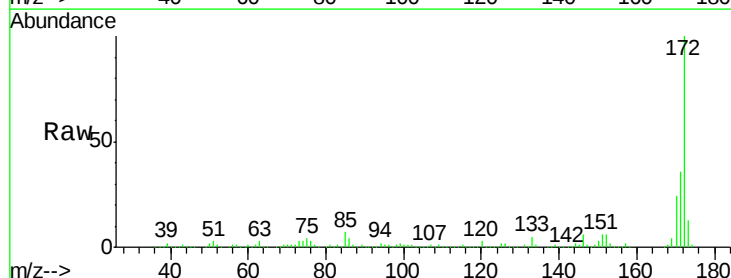


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

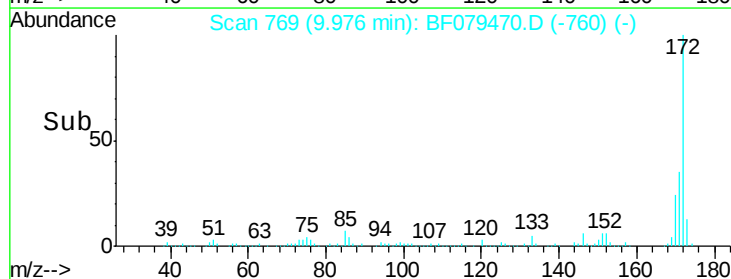
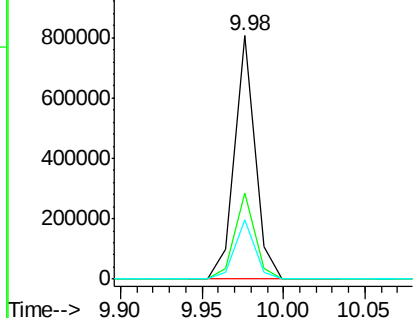


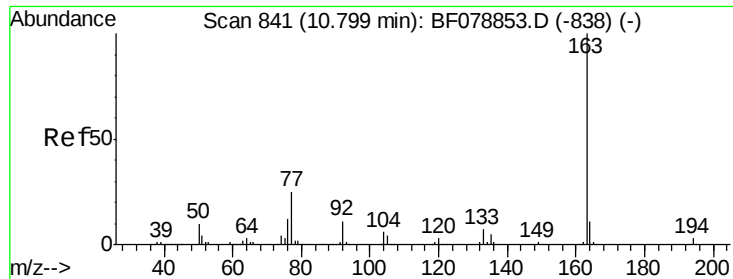
#44
 2-Fluorobiphenyl
 Concen: 64.19 ng
 RT: 9.98 min Scan# 769
 Delta R.T. -0.00 min
 Lab File: BF079470.D
 Acq: 23 May 2015 11:44

Tgt Ion:172 Resp: 698259
 Ion Ratio Lower Upper
 172 100
 171 35.6 28.3 42.5
 170 24.2 19.4 29.2



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

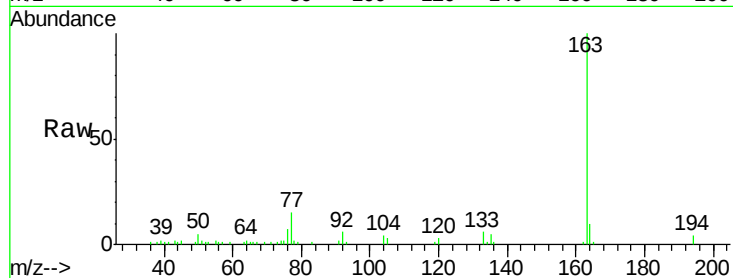




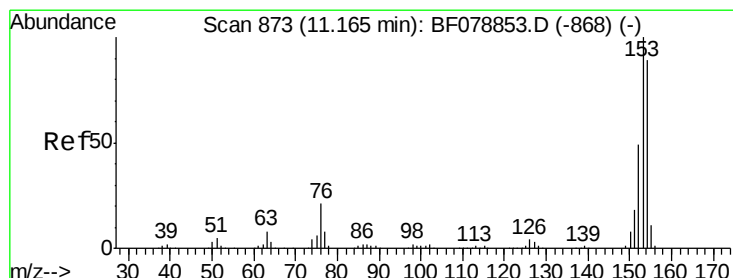
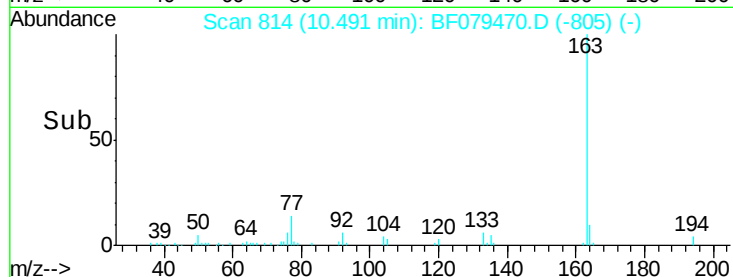
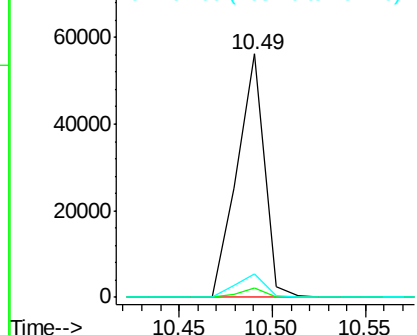
#49
Dimethylphthalate
Concen: 5.20 ng
RT: 10.49 min Scan# 814
Delta R.T. -0.00 min
Lab File: BF079470.D
Acq: 23 May 2015 11:44

Instrument :
BNA_F
ClientSampleId :
SW-023

Tgt Ion:163 Resp: 57837
Ion Ratio Lower Upper
163 100
194 4.0 2.4 3.6#
164 9.6 8.6 12.8

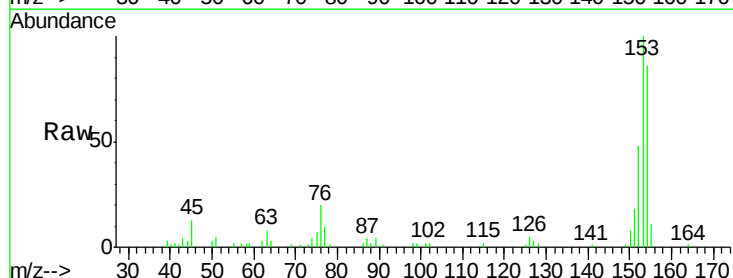


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

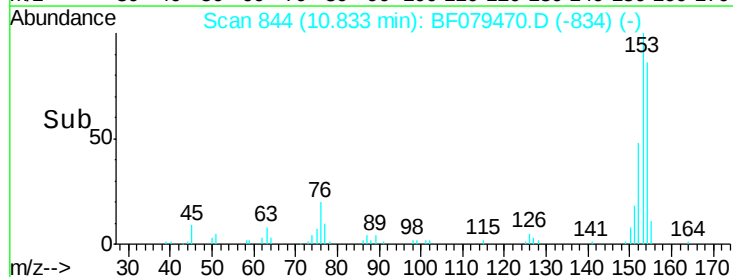
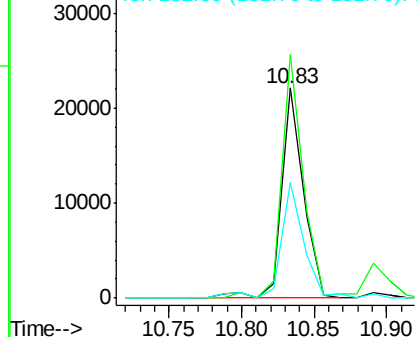


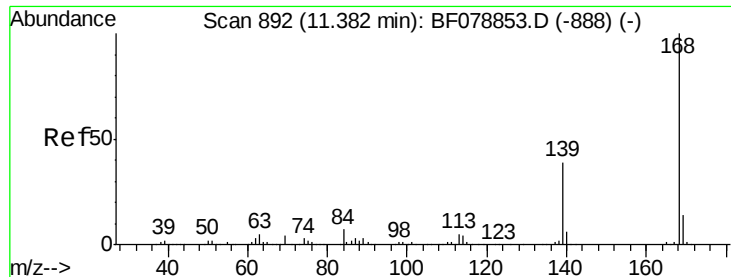
#51
Acenaphthene
Concen: 2.49 ng
RT: 10.83 min Scan# 844
Delta R.T. -0.00 min
Lab File: BF079470.D
Acq: 23 May 2015 11:44

Tgt Ion:154 Resp: 22933
Ion Ratio Lower Upper
154 100
153 116.1 90.2 135.2
152 55.4 43.8 65.8



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

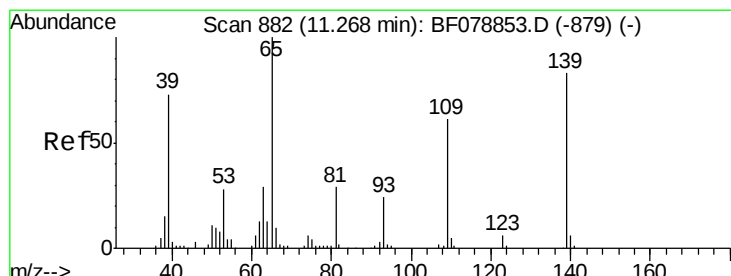
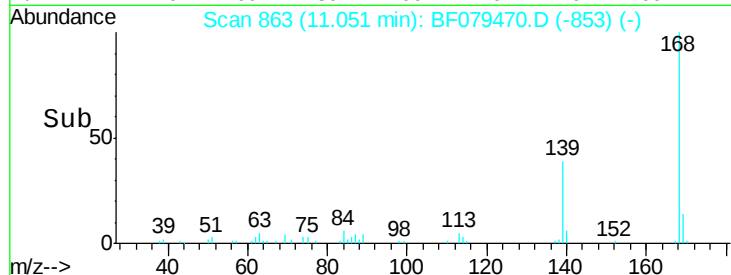
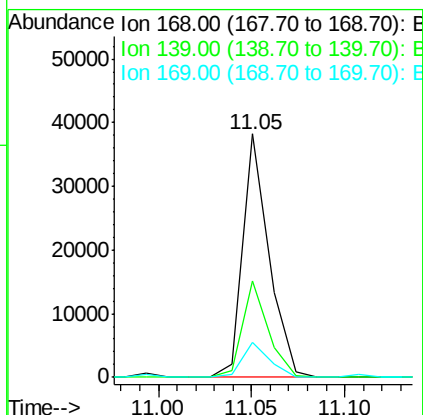
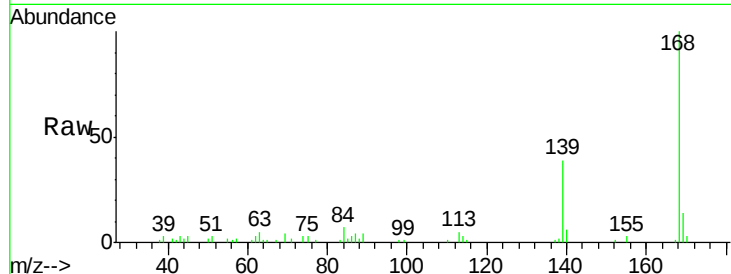




#54
Dibenzofuran
Concen: 2.81 ng
RT: 11.05 min Scan# 863
Delta R.T. -0.00 min
Lab File: BF079470.D
Acq: 23 May 2015 11:44

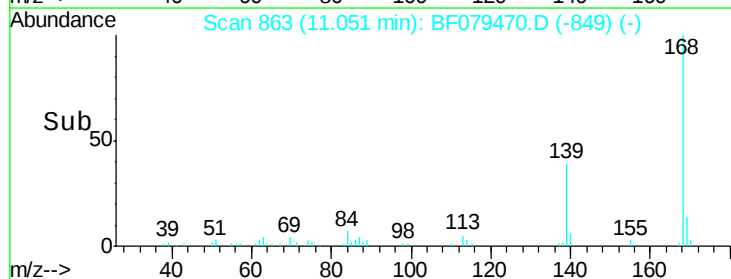
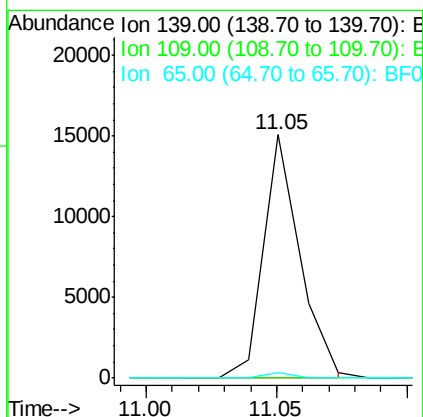
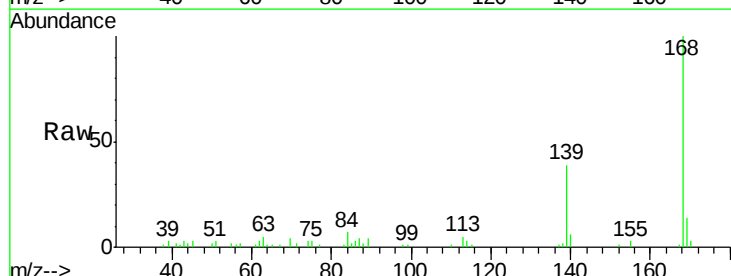
Instrument :
BNA_F
ClientSampleId :
SW-023

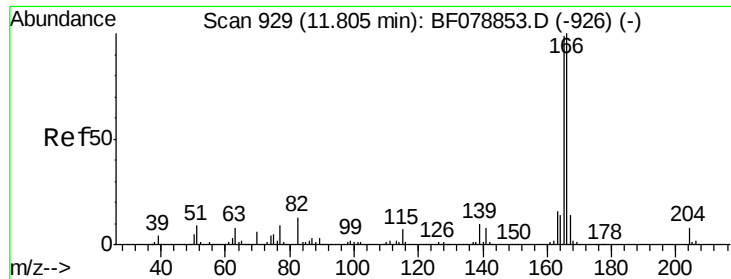
Tgt Ion:168 Resp: 37359
Ion Ratio Lower Upper
168 100
139 39.5 31.5 47.3
169 14.4 11.0 16.4



#55
4-Nitrophenol
Concen: 6.68 ng
RT: 11.05 min Scan# 863
Delta R.T. 0.05 min
Lab File: BF079470.D
Acq: 23 May 2015 11:44

Tgt Ion:139 Resp: 14507
Ion Ratio Lower Upper
139 100
109 0.0 54.4 94.4#
65 2.5 101.0 141.0#

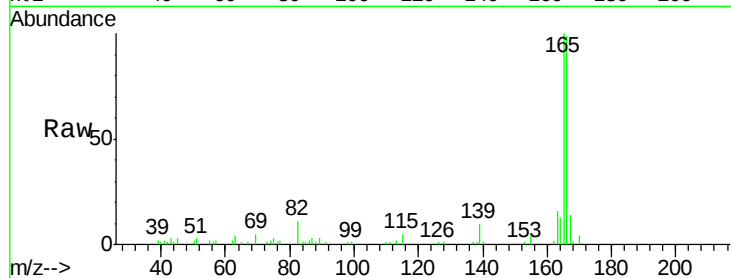




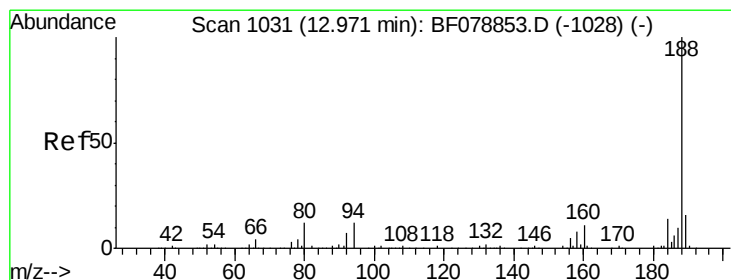
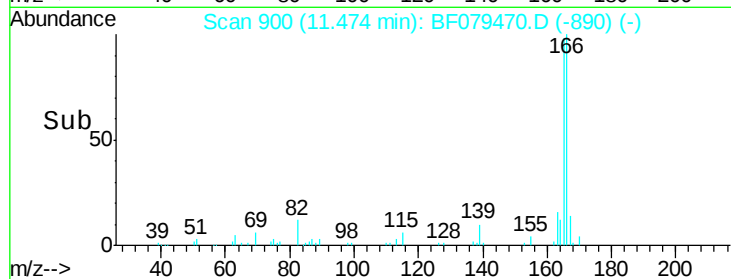
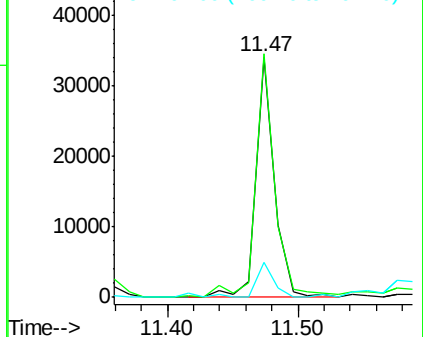
#57
Fluorene
 Concen: 3.12 ng
 RT: 11.47 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: BF079470.D
 Acq: 23 May 2015 11:44

Instrument :
 BNA_F
 ClientSampleId :
 SW-023

Tgt Ion:166 Resp: 34008
 Ion Ratio Lower Upper
 166 100
 165 101.4 79.5 119.3
 167 14.7 11.0 16.6

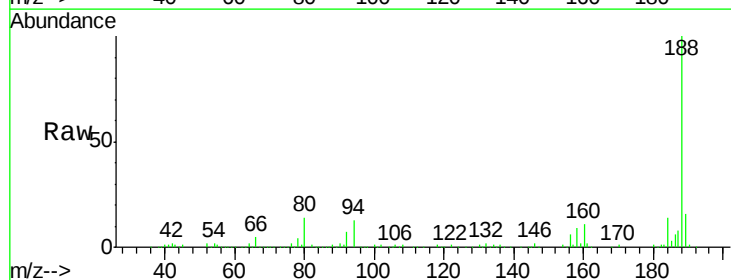


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

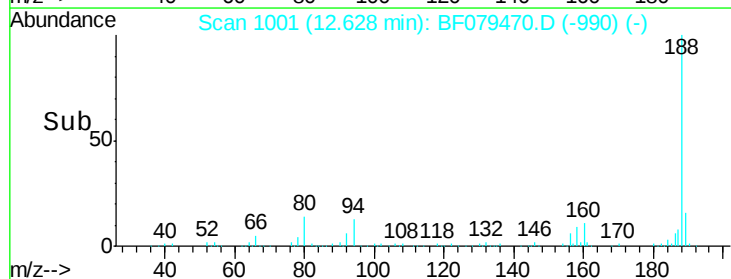
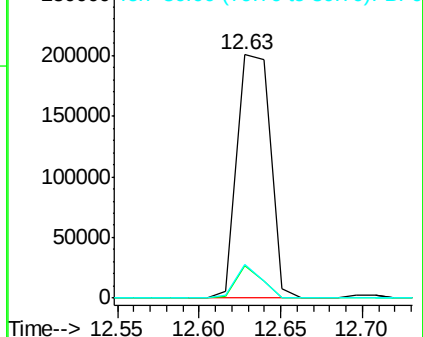


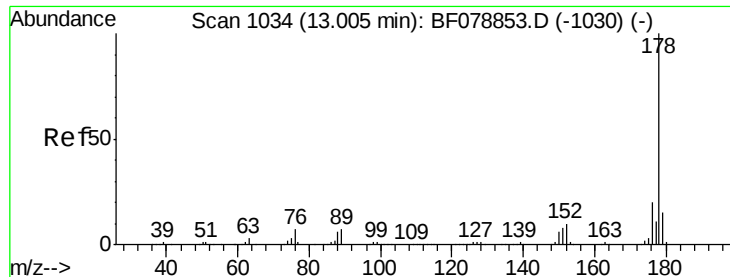
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.63 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: BF079470.D
 Acq: 23 May 2015 11:44

Tgt Ion:188 Resp: 282934
 Ion Ratio Lower Upper
 188 100
 94 13.2 9.4 14.0
 80 13.9 9.8 14.6



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

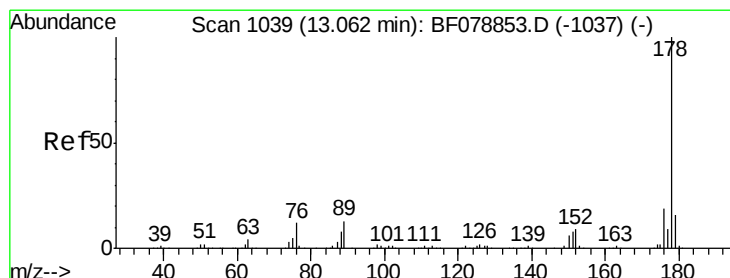
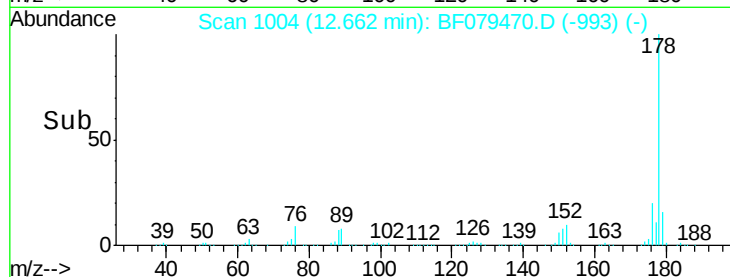
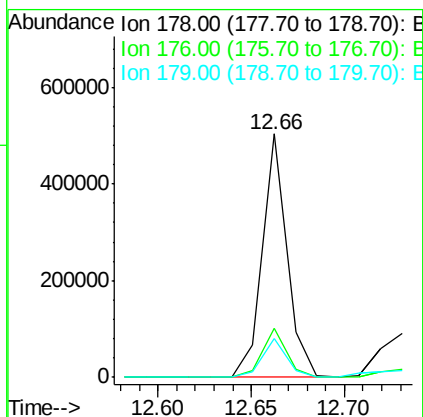
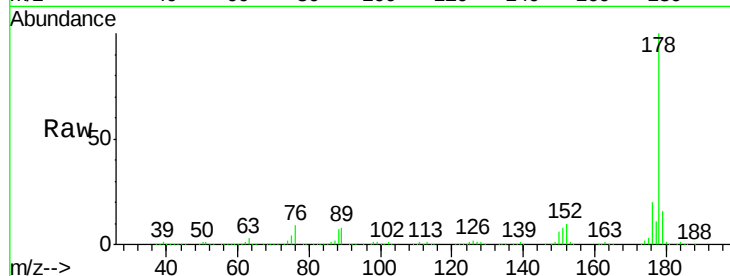




#70
Phenanthrene
Concen: 28.99 ng
RT: 12.66 min Scan# 1004
Delta R.T. -0.00 min
Lab File: BF079470.D
Acq: 23 May 2015 11:44

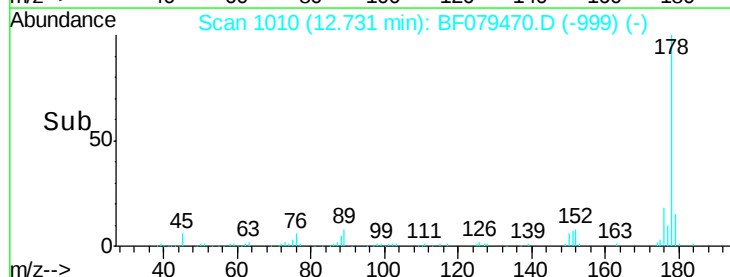
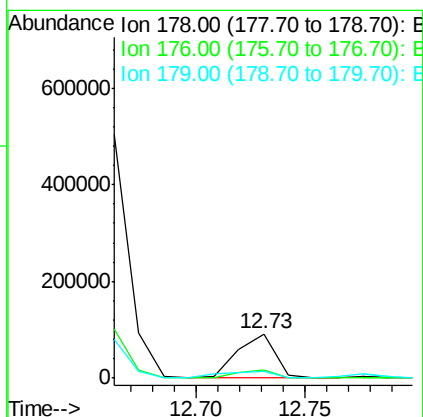
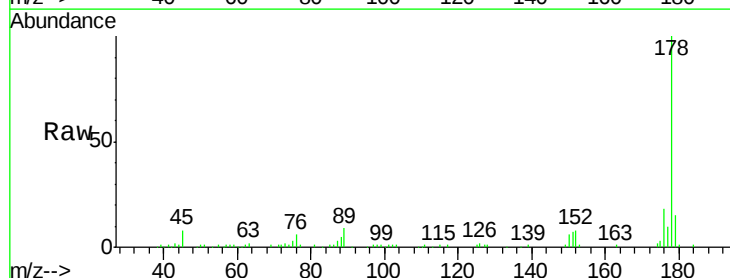
Instrument :
BNA_F
ClientSampleId :
SW-023

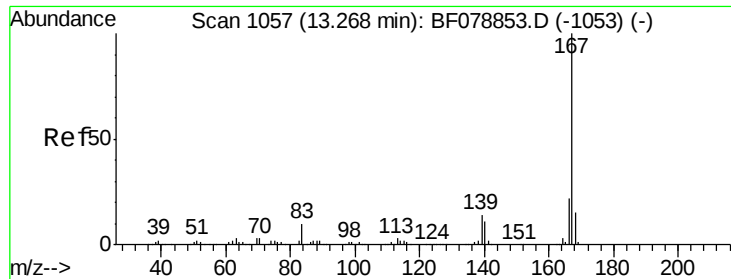
Tgt Ion:178 Resp: 458864
Ion Ratio Lower Upper
178 100
176 20.1 15.9 23.9
179 16.1 12.2 18.4



#71
Anthracene
Concen: 6.93 ng
RT: 12.73 min Scan# 1010
Delta R.T. -0.00 min
Lab File: BF079470.D
Acq: 23 May 2015 11:44

Tgt Ion:178 Resp: 107581
Ion Ratio Lower Upper
178 100
176 17.8 15.3 22.9
179 15.3 12.6 19.0

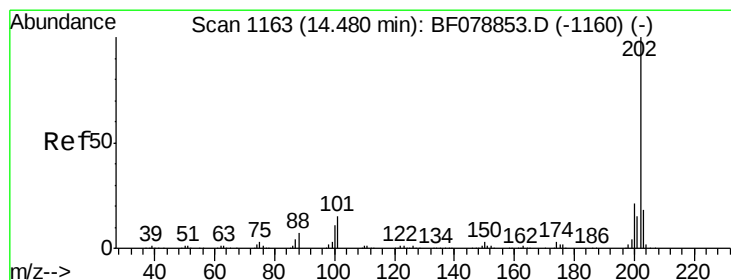
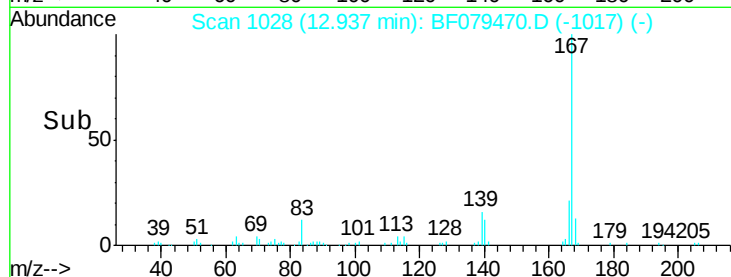
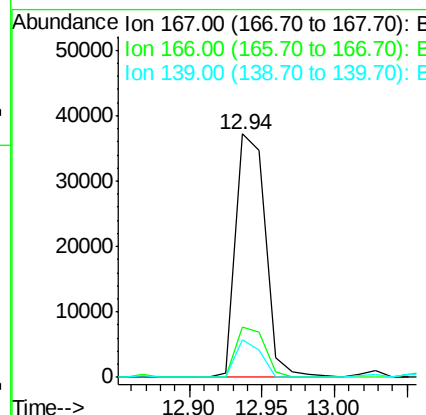
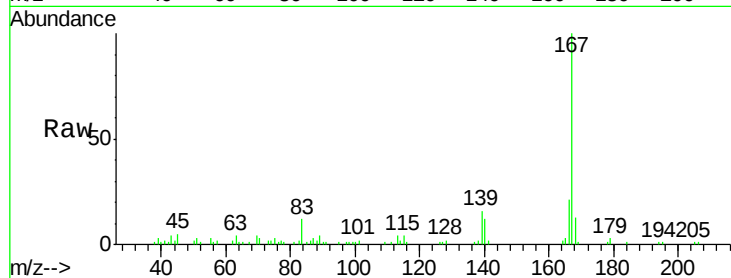




#72
 Carbazole
 Concen: 3.58 ng
 RT: 12.94 min Scan# 1028
 Delta R.T. -0.00 min
 Lab File: BF079470.D
 Acq: 23 May 2015 11:44

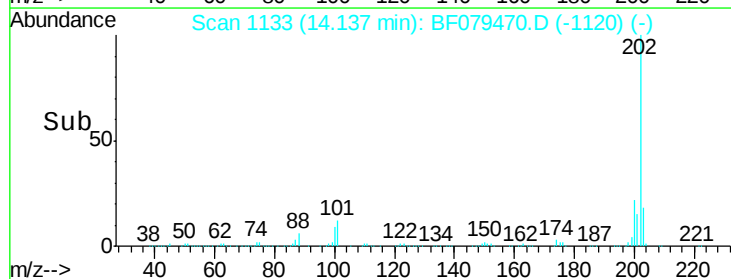
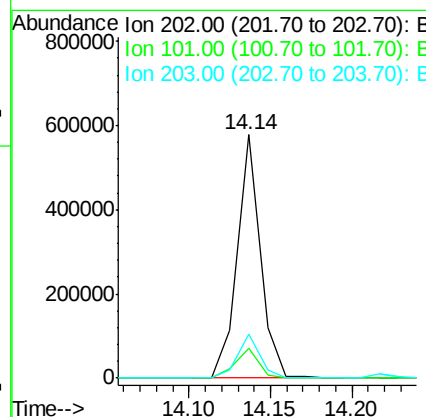
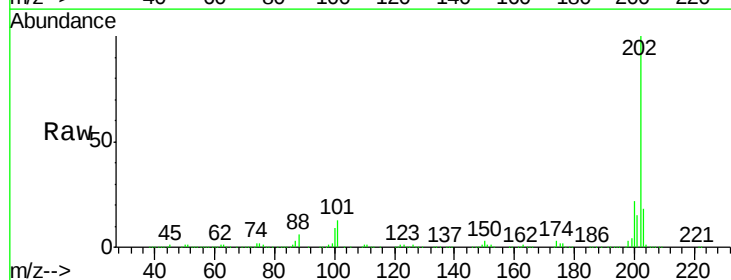
Instrument :
 BNA_F
 ClientSampleId :
 SW-023

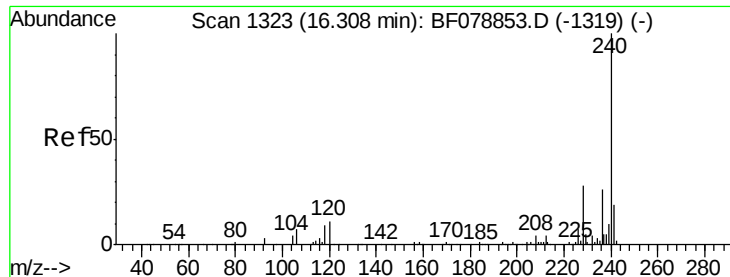
Tgt Ion:167 Resp: 52987
 Ion Ratio Lower Upper
 167 100
 166 20.6 17.5 26.3
 139 15.5 11.0 16.4



#74
 Fluoranthene
 Concen: 33.96 ng
 RT: 14.14 min Scan# 1133
 Delta R.T. -0.00 min
 Lab File: BF079470.D
 Acq: 23 May 2015 11:44

Tgt Ion:202 Resp: 560169
 Ion Ratio Lower Upper
 202 100
 101 12.5 0.0 34.7
 203 17.8 0.0 37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.92 min Scan# 1289

Delta R.T. 0.01 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

Instrument :

BNA_F

ClientSampleId :

SW-023

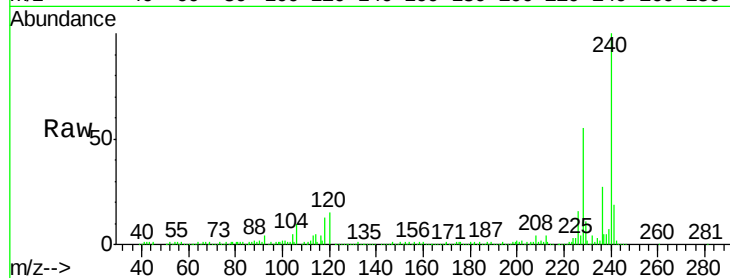
Tgt Ion:240 Resp: 287319

Ion Ratio Lower Upper

240 100

120 14.9 8.6 12.8#

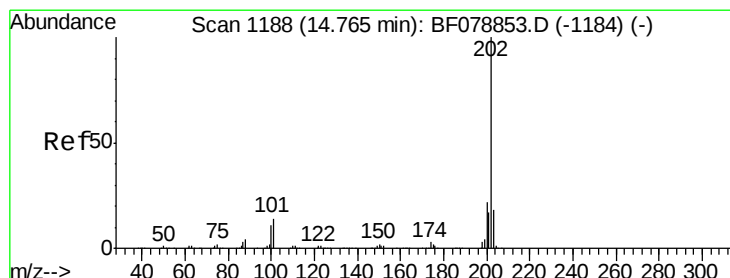
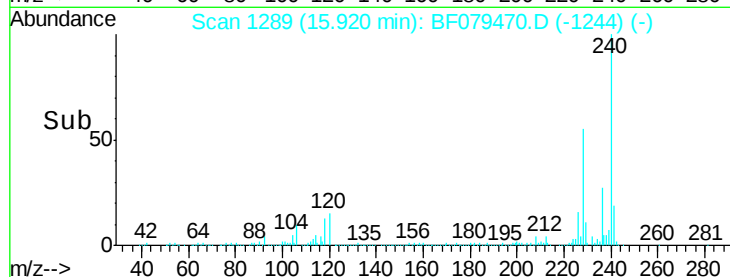
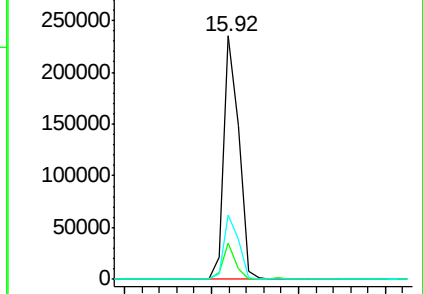
236 26.7 21.0 31.6



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: 30.20 ng

RT: 14.41 min Scan# 1157

Delta R.T. -0.00 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

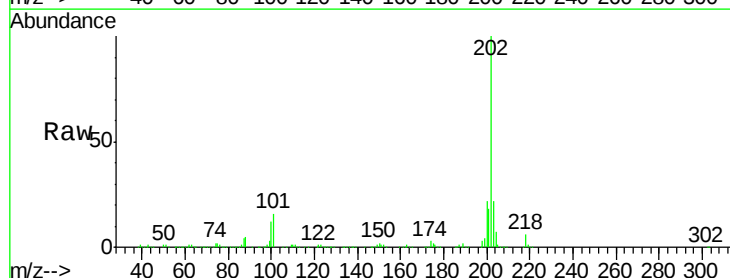
Tgt Ion:202 Resp: 499954

Ion Ratio Lower Upper

202 100

200 22.1 17.5 26.3

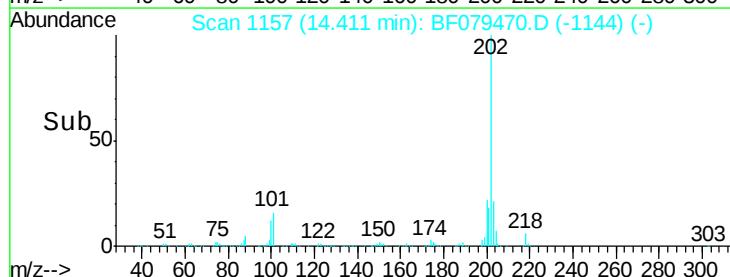
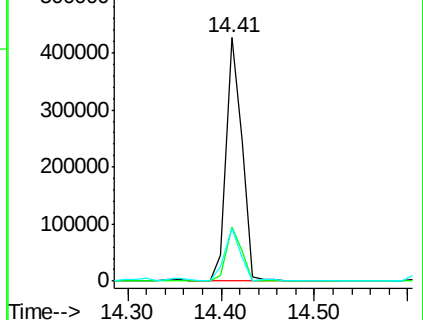
203 21.8 14.7 22.1

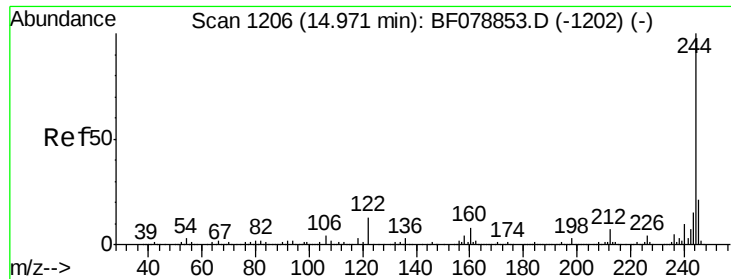


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 60.61 ng

RT: 14.63 min Scan# 1176

Delta R.T. -0.00 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

Instrument :

BNA_F

ClientSampleId :

SW-023

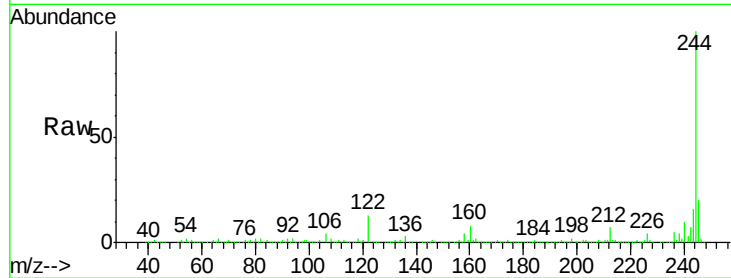
Tgt Ion:244 Resp: 727348

Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

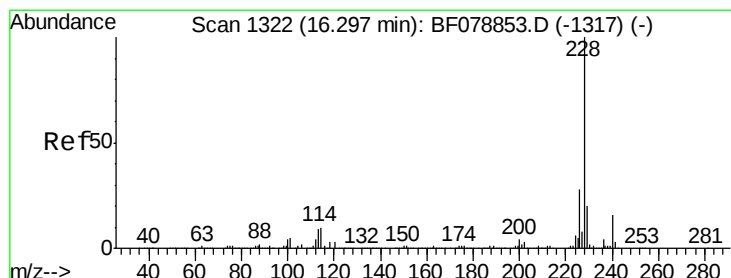
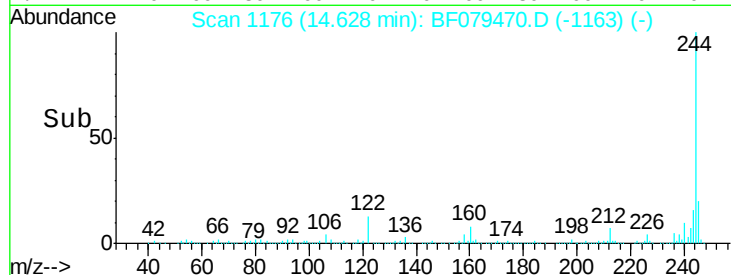
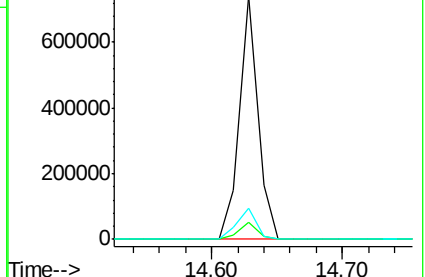
122 12.6 10.5 15.7



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: 18.98 ng

RT: 15.91 min Scan# 1288

Delta R.T. 0.01 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

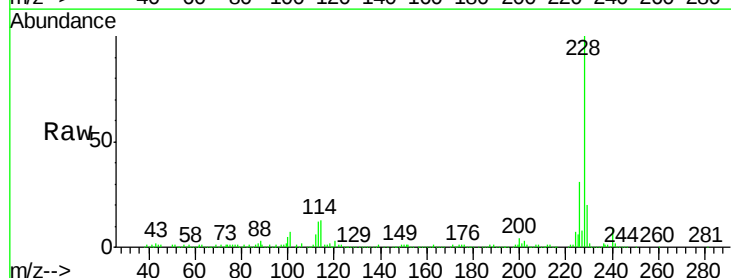
Tgt Ion:228 Resp: 298576

Ion Ratio Lower Upper

228 100

226 31.3 22.3 33.5

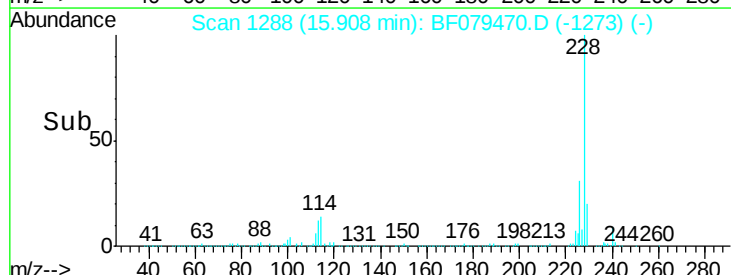
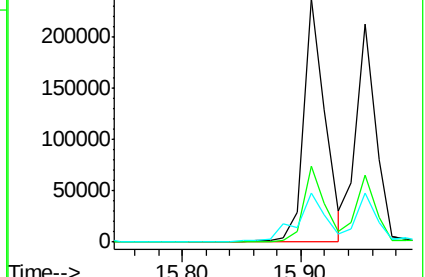
229 20.1 16.1 24.1

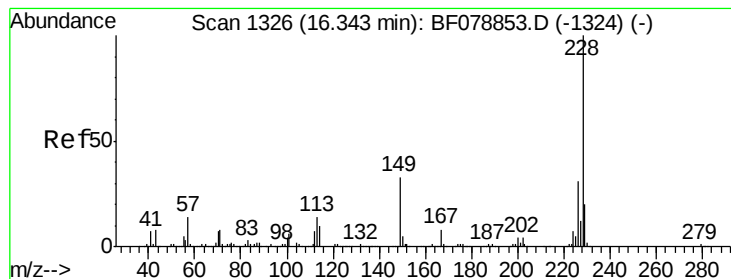


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 16.12 ng

RT: 15.95 min Scan# 1292

Delta R.T. 0.01 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

Instrument :

BNA_F

ClientSampleId :

SW-023

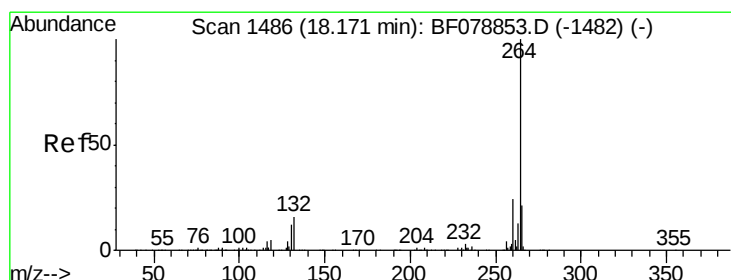
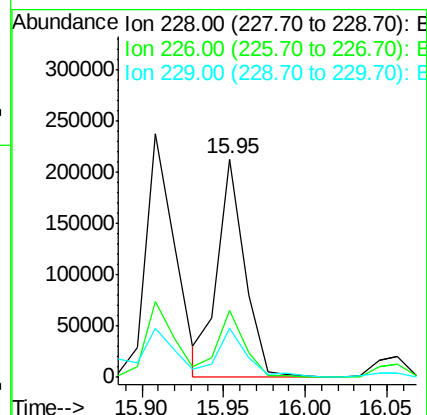
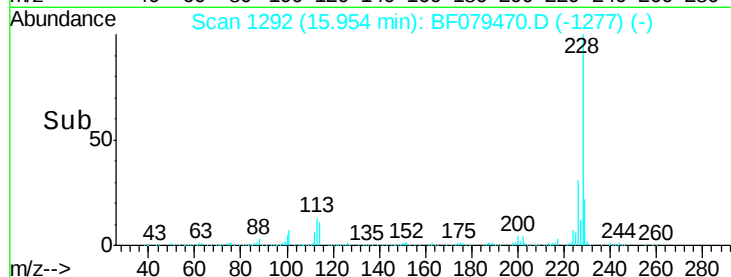
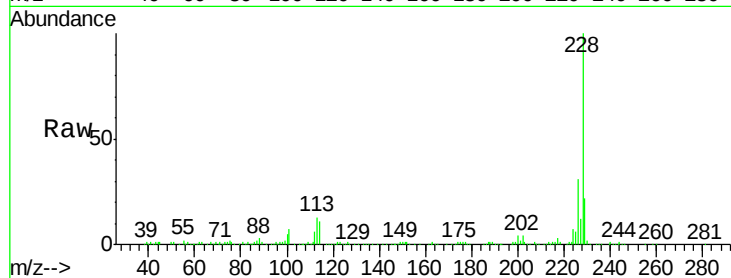
Tgt Ion:228 Resp: 243934

Ion Ratio Lower Upper

228 100

226 30.6 24.8 37.2

229 22.2 16.1 24.1



#86

Perylene-d12

Concen: 20.00 ng

RT: 17.70 min Scan# 1445

Delta R.T. 0.09 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

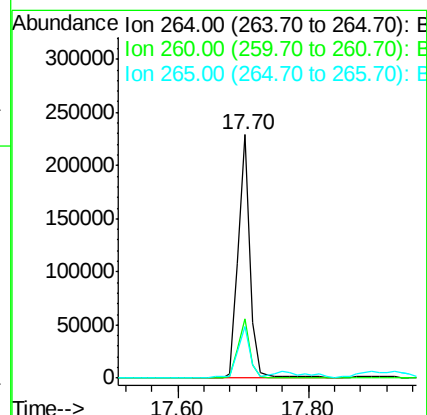
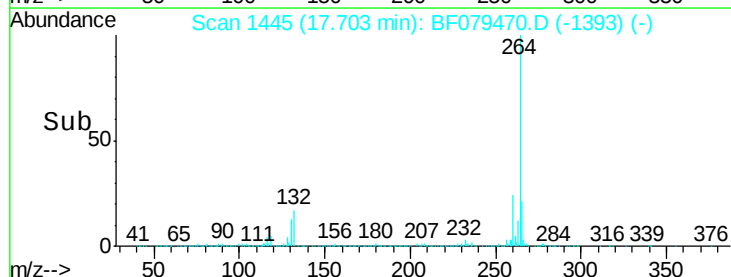
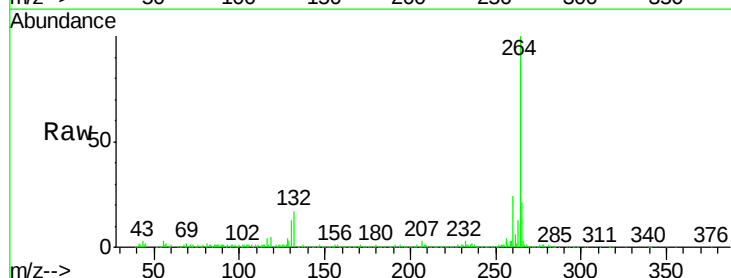
Tgt Ion:264 Resp: 284450

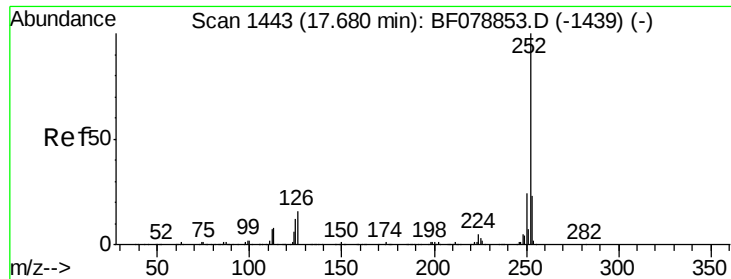
Ion Ratio Lower Upper

264 100

260 24.5 19.2 28.8

265 21.3 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 29.80 ng

RT: 17.25 min Scan# 1405

Delta R.T. 0.07 min

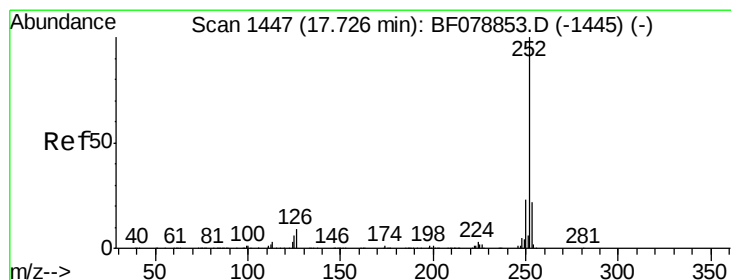
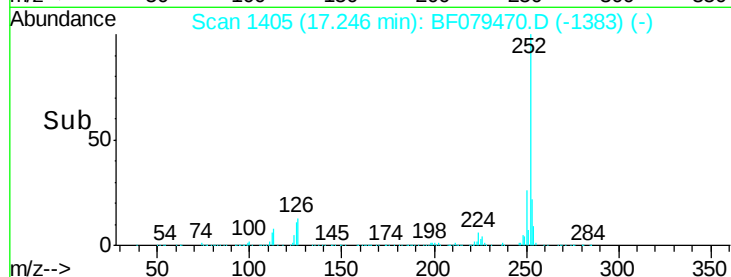
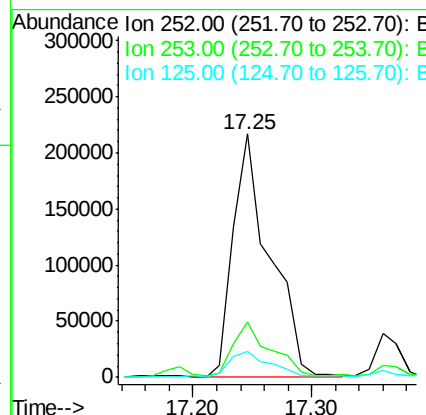
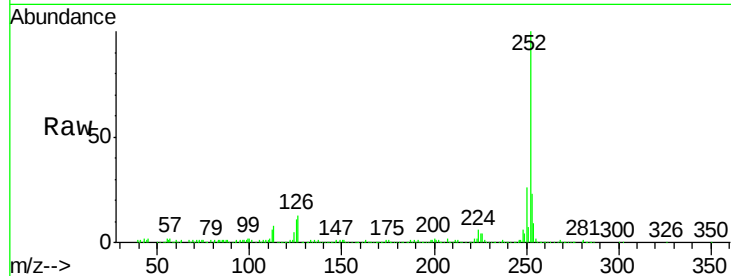
Lab File: BF079470.D

Acq: 23 May 2015 11:44

Instrument :
BNA_F
ClientSampleId :
SW-023

Tgt Ion:252 Resp: 464010

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	10.9	9.4	14.2



#88

Benzo(k)fluoranthene

Concen: 30.79 ng

RT: 17.25 min Scan# 1405

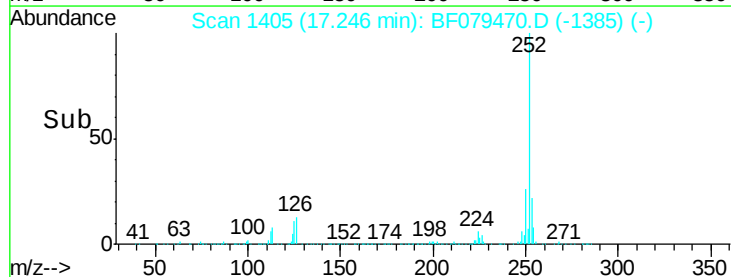
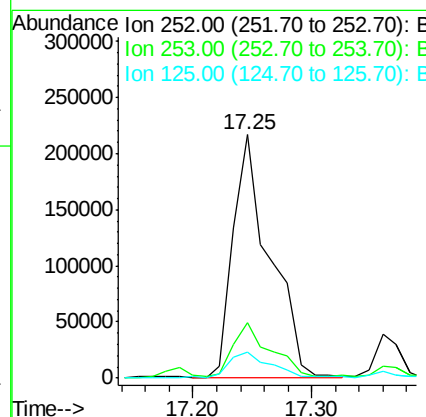
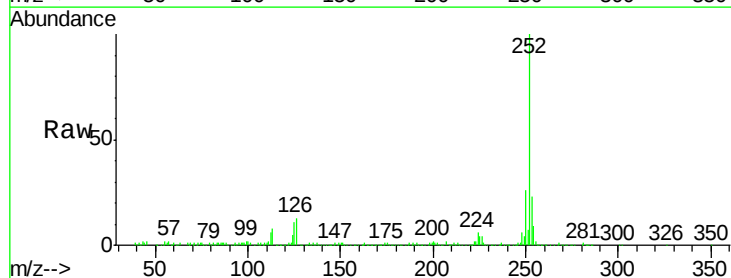
Delta R.T. 0.05 min

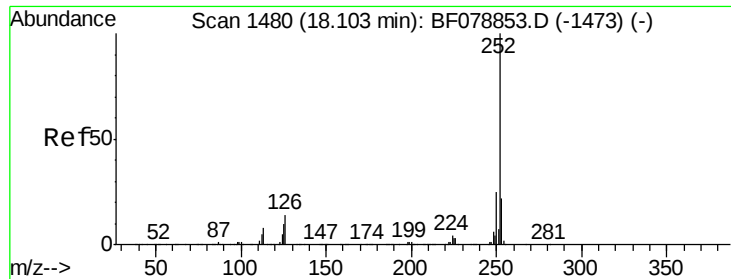
Lab File: BF079470.D

Acq: 23 May 2015 11:44

Tgt Ion:252 Resp: 464010

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.0
125	10.9	6.1	9.1#





#89

Benzo(a)pyrene

Concen: 17.52 ng

RT: 17.63 min Scan# 1439

Delta R.T. 0.09 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

Instrument :

BNA_F

ClientSampled :

SW-023

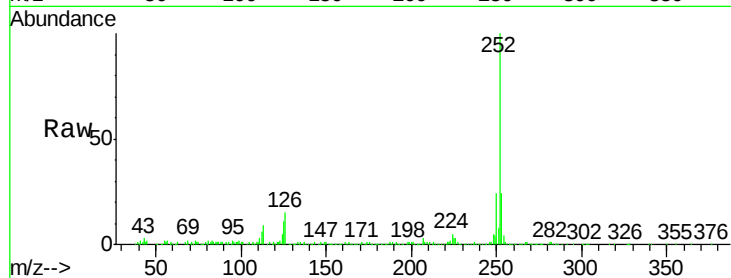
Tgt Ion:252 Resp: 251158

Ion Ratio Lower Upper

252 100

253 24.2 18.0 27.0

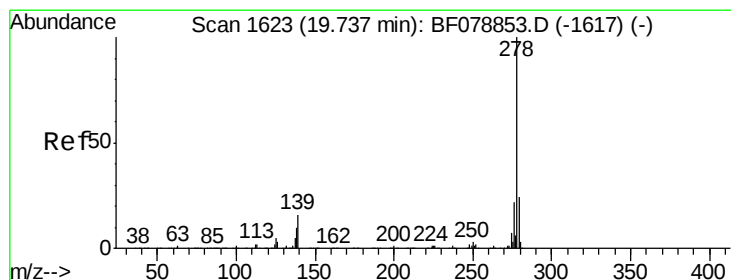
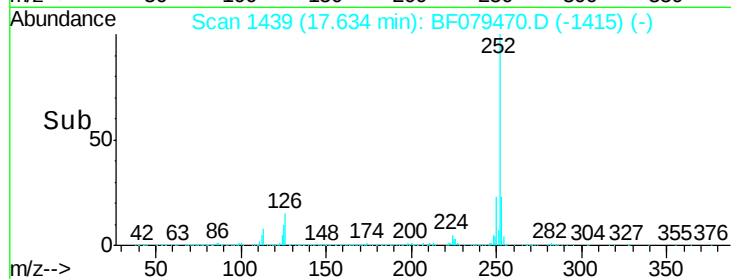
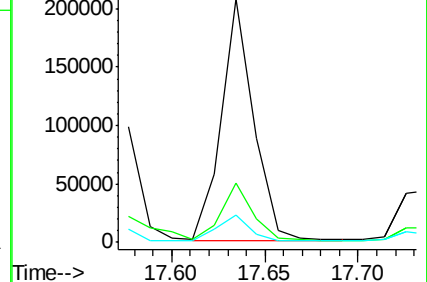
125 11.2 8.2 12.2



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: 3.11 ng

RT: 19.07 min Scan# 1565

Delta R.T. 0.11 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

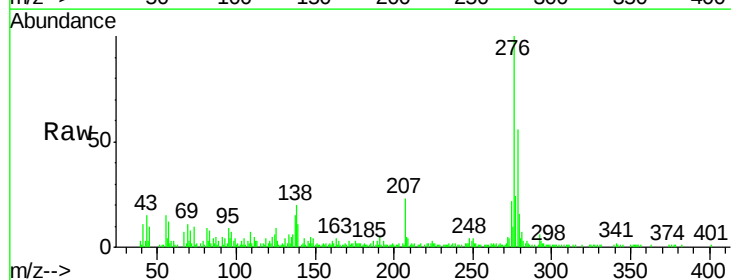
Tgt Ion:278 Resp: 47349

Ion Ratio Lower Upper

278 100

139 20.1 13.1 19.7#

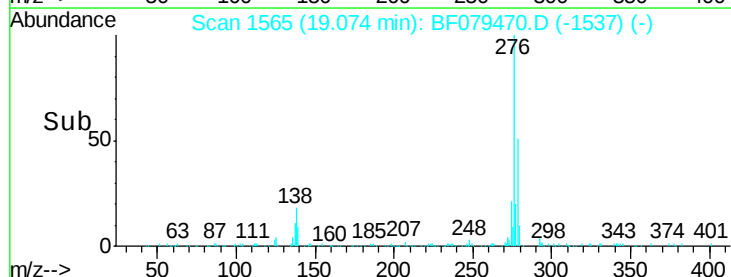
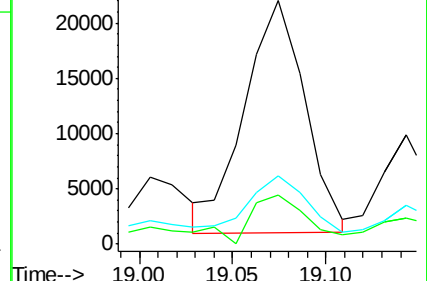
279 27.9 19.1 28.7

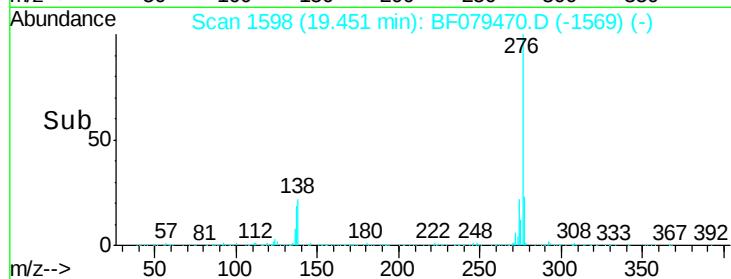
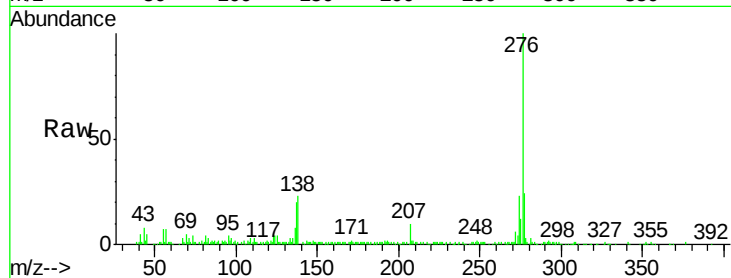
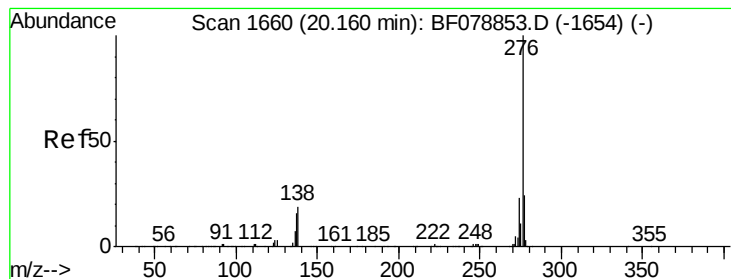


Abundance Ion 278.00 (277.70 to 278.70): E

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: 10.98 ng

RT: 19.45 min Scan# 1598

Delta R.T. 0.13 min

Lab File: BF079470.D

Acq: 23 May 2015 11:44

Instrument :

BNA_F

ClientSampleId :

SW-023

Tgt Ion:276 Resp: 167627

Ion Ratio Lower Upper

276 100

277 24.1 18.8 28.2

138 22.6 15.2 22.8

