

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052915\
 Data File : BF079589.D
 Acq On : 30 May 2015 7:05
 Operator : TP/IZ
 Sample : G2405-03
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FK-GF-01-016-B

Quant Time: May 31 05:29:45 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 29 17:35:14 2015
 Response via : Initial Calibration

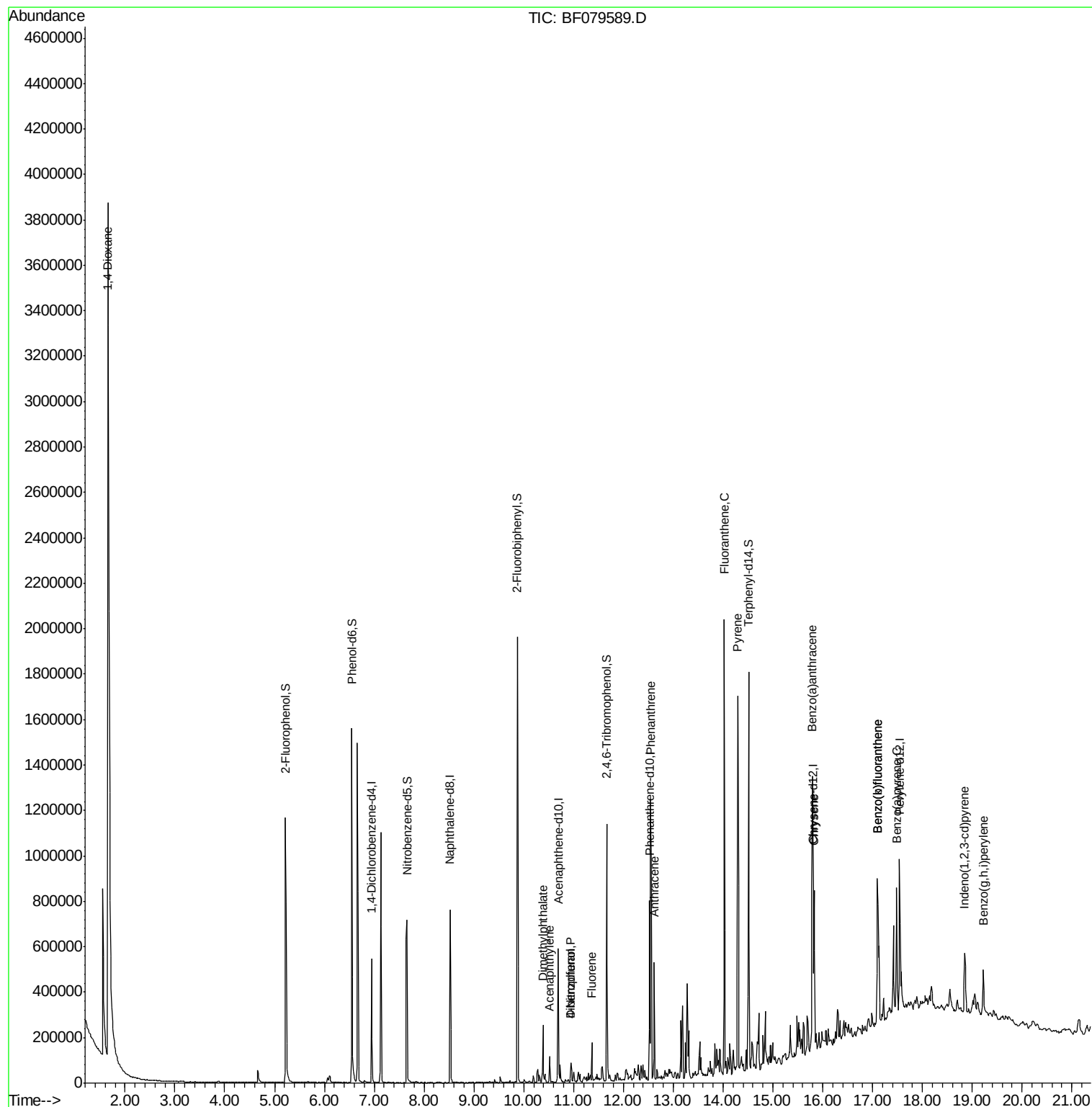
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	92823	20.00	ng	-0.01
21) Naphthalene-d8	8.52	136	373129	20.00	ng	-0.01
38) Acenaphthene-d10	10.70	164	168347	20.00	ng	-0.01
63) Phenanthrene-d10	12.52	188	308857	20.00	ng	-0.01
75) Chrysene-d12	15.81	240	306050	20.00	ng	-0.03
86) Perylene-d12	17.54	264	334295	20.00	ng	-0.13
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	485745	90.77	ng	-0.01
7) Phenol-d6	6.55	99	624397	91.54	ng	-0.01
23) Nitrobenzene-d5	7.66	82	349487	54.14	ng	-0.01
41) 2,4,6-Tribromophenol	11.67	330	162673	87.98	ng	-0.02
44) 2-Fluorobiphenyl	9.87	172	634974	53.81	ng	-0.01
78) Terphenyl-d14	14.51	244	636908	48.84	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	1.66	88	228000	89.56	ng	# 100
9) Benzaldehyde	6.55	77	585	Below Cal		# 1
48) Acenaphthylene	10.51	152	62089	3.60	ng	99
49) Dimethylphthalate	10.39	163	107140	8.64	ng	99
54) Dibenzofuran	10.95	168	30047	2.07	ng	95
55) 4-Nitrophenol	10.95	139	11677	6.53	ng	# 14
57) Fluorene	11.37	166	56061	4.68	ng	98
70) Phenanthrene	12.55	178	672960	39.72	ng	99
71) Anthracene	12.62	178	210272	12.22	ng	100
73) Di-n-butylphthalate	13.29	149	3136	Below Cal		# 35
74) Fluoranthene	14.02	202	897790	49.41	ng	95
77) Pyrene	14.30	202	765013	40.35	ng	97
80) Benzo(a)anthracene	15.79	228	437809	24.87	ng	97
82) Chrysene	15.83	228	312479	18.67	ng	98
85) Indeno(1,2,3-cd)pyrene	18.85	276	176169	8.18	ng	94
87) Benzo(b)fluoranthene	17.10	252	580996	30.47	ng	97
88) Benzo(k)fluoranthene	17.10	252	580996	34.08	ng	# 95
89) Benzo(a)pyrene	17.49	252	313853	17.60	ng	97
90) Dibenzo(a,h)anthracene	18.93	278	18349	Below Cal		# 81
91) Benzo(g,h,i)perylene	19.22	276	157082	6.80	ng	96

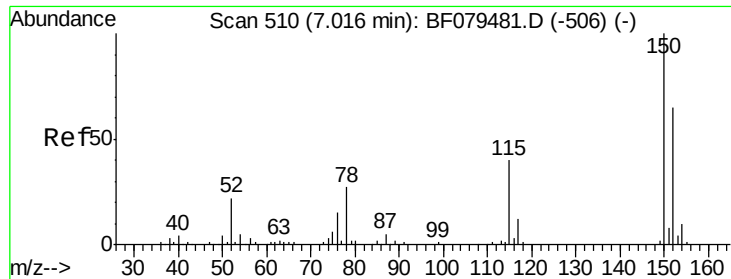
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 29 17:35:14 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.95 min Scan# 504

Delta R.T. -0.01 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

Instrument :

BNA_F

ClientSampleId :

FK-GF-01-016-B

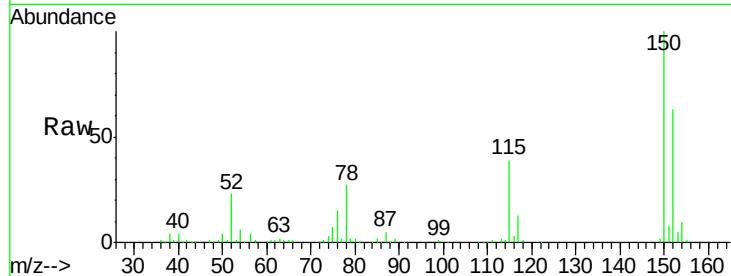
Tgt Ion:152 Resp: 92823

Ion Ratio Lower Upper

152 100

150 158.8 124.0 186.0

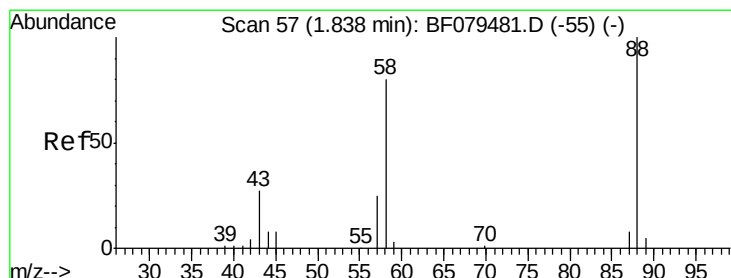
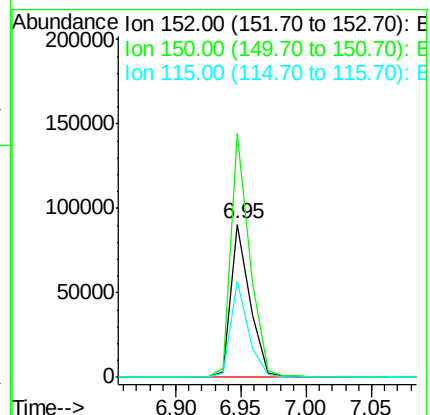
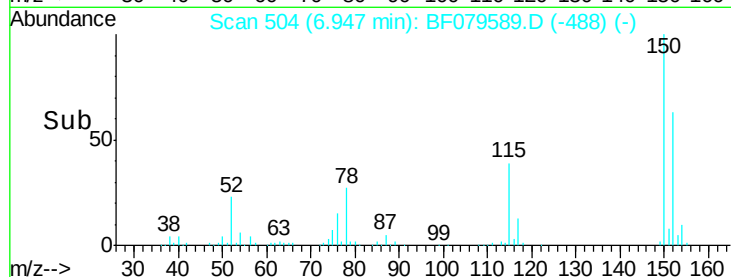
115 62.6 49.6 74.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 89.56 ng

RT: 1.66 min Scan# 41

Delta R.T. -0.11 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

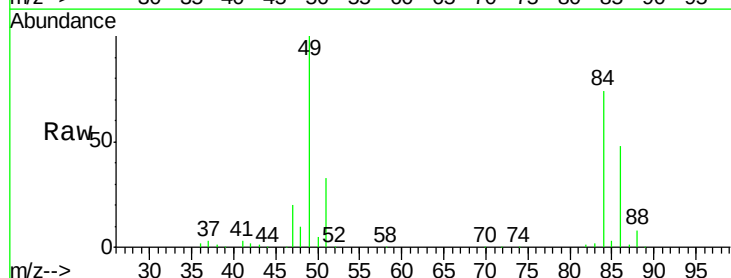
Tgt Ion: 88 Resp: 228000

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

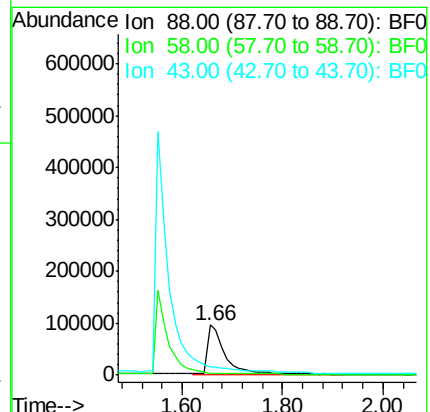
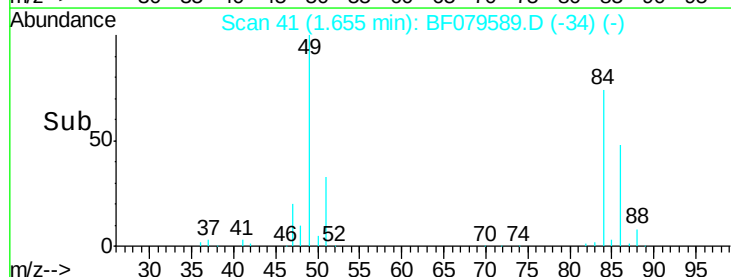
43 0.0 0.0 0.0

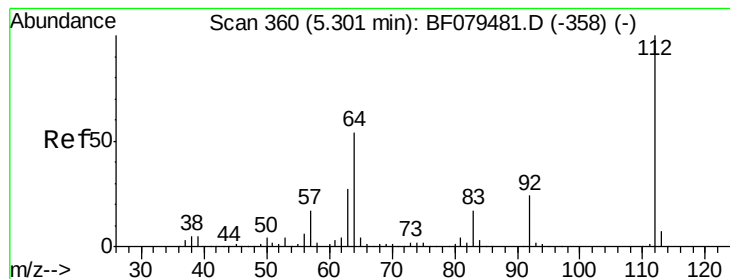


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 90.77 ng

RT: 5.22 min Scan# 353

Delta R.T. -0.01 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

Instrument :

BNA_F

ClientSampleId :

FK-GF-01-016-B

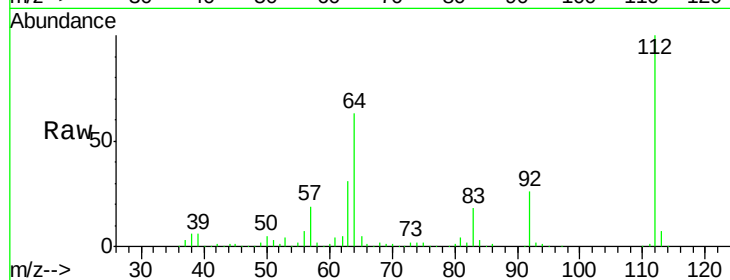
Tgt Ion: 112 Resp: 485745

Ion Ratio Lower Upper

112 100

64 62.5 43.5 65.3

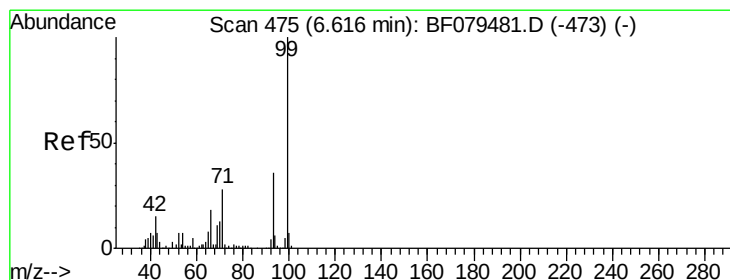
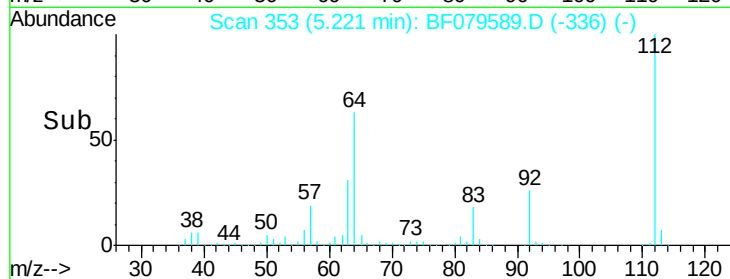
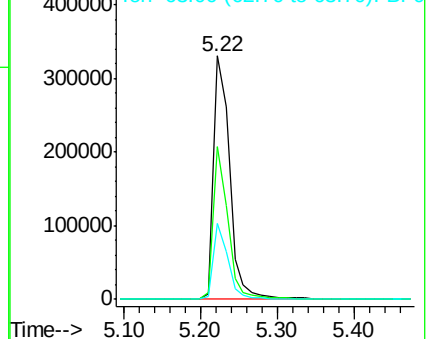
63 31.1 21.8 32.8



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 91.54 ng

RT: 6.55 min Scan# 469

Delta R.T. -0.01 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

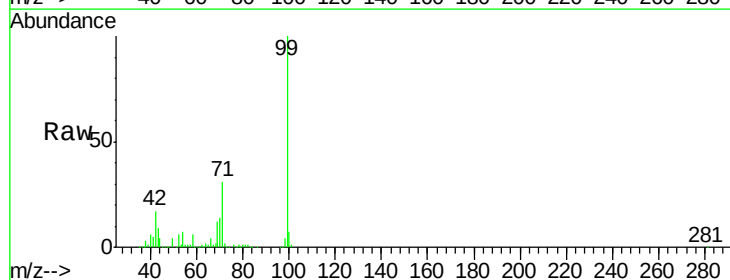
Tgt Ion: 99 Resp: 624397

Ion Ratio Lower Upper

99 100

42 16.8 11.9 17.9

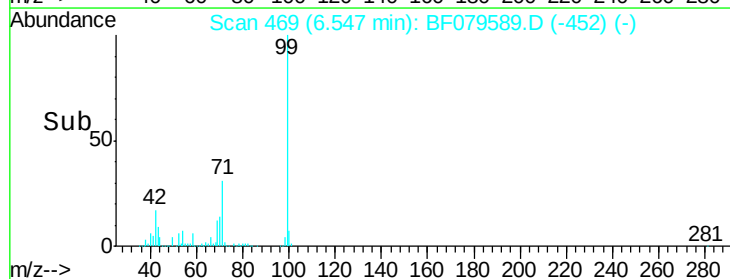
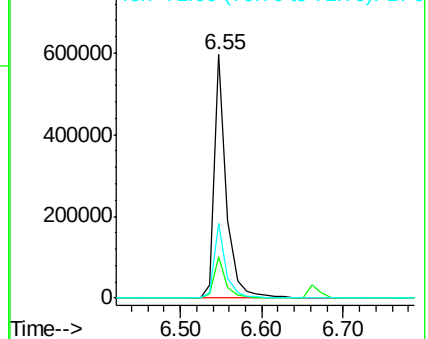
71 30.9 22.1 33.1

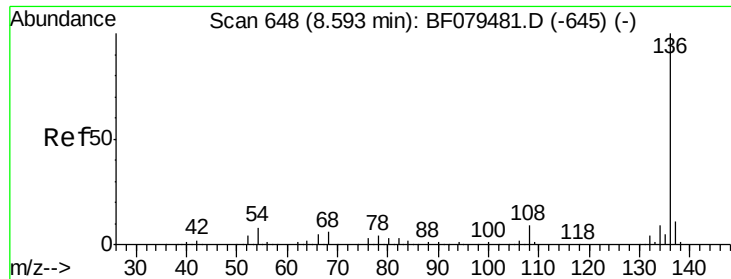


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

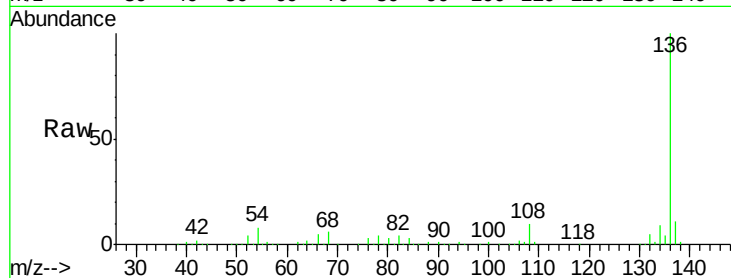




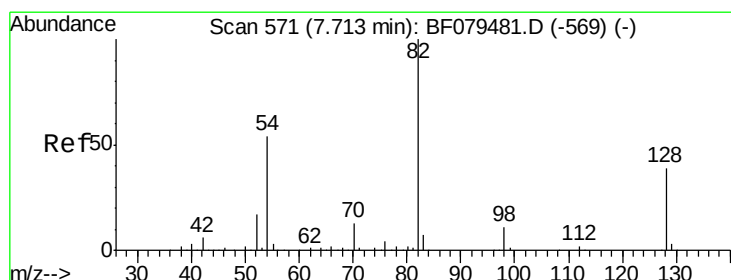
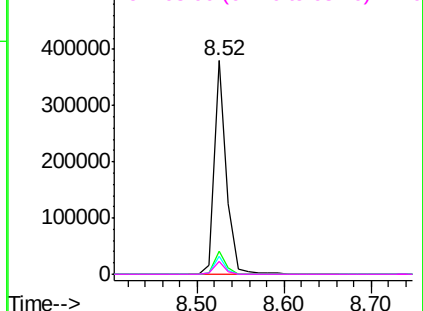
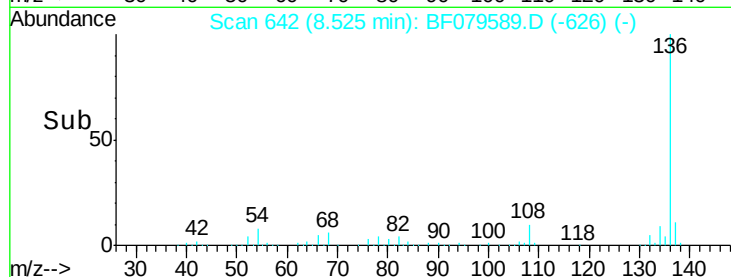
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.52 min Scan# 642
Delta R.T. -0.01 min
Lab File: BF079589.D
Acq: 30 May 2015 7:05

Instrument :
BNA_F
ClientSampleId :
FK-GF-01-016-B

Tgt Ion:	136	Resp:	373129
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.5	12.7
54	8.4	6.6	9.8
68	6.2	4.7	7.1

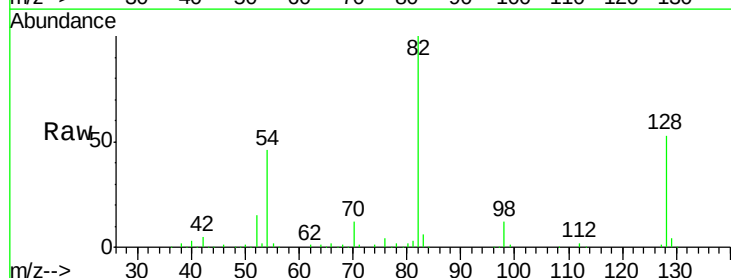


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

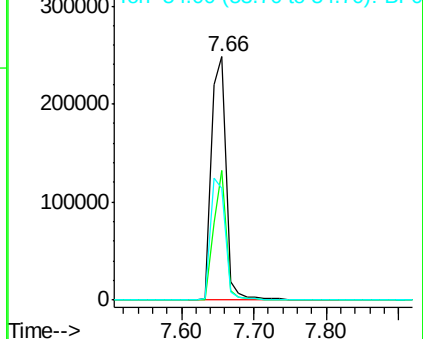
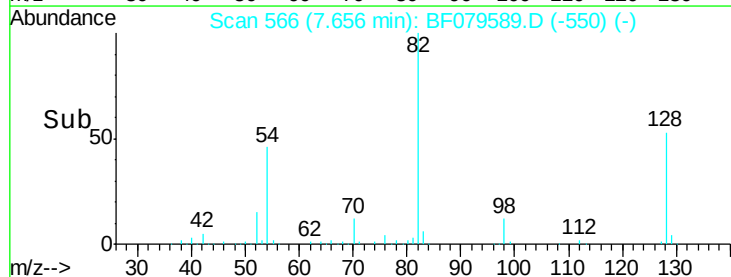


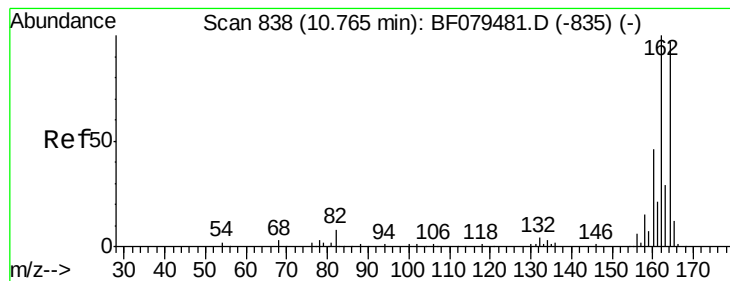
#23
Nitrobenzene-d5
Concen: 54.14 ng
RT: 7.66 min Scan# 566
Delta R.T. -0.01 min
Lab File: BF079589.D
Acq: 30 May 2015 7:05

Tgt Ion:	82	Resp:	349487
Ion	Ratio	Lower	Upper
82	100		
128	53.2	30.8	46.2#
54	46.1	42.8	64.2



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.70 min Scan# 832

Delta R.T. -0.01 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

Instrument :

BNA_F

ClientSampleId :

FK-GF-01-016-B

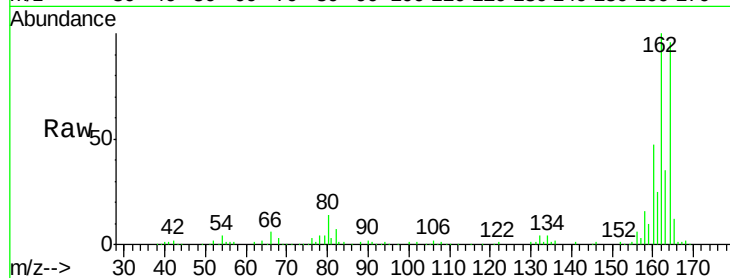
Tgt Ion:164 Resp: 168347

Ion Ratio Lower Upper

164 100

162 104.7 82.6 124.0

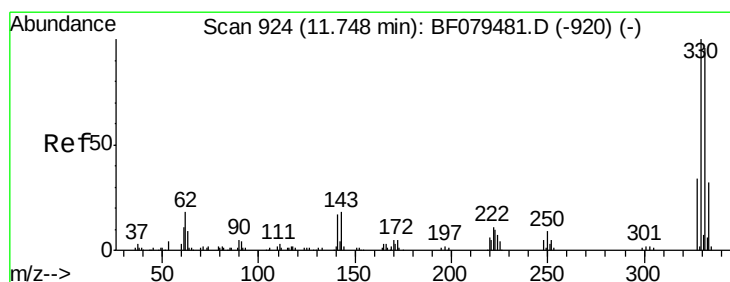
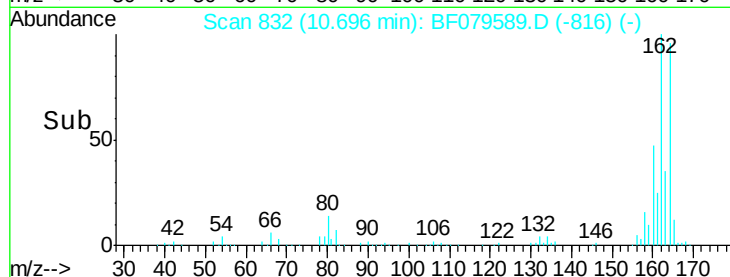
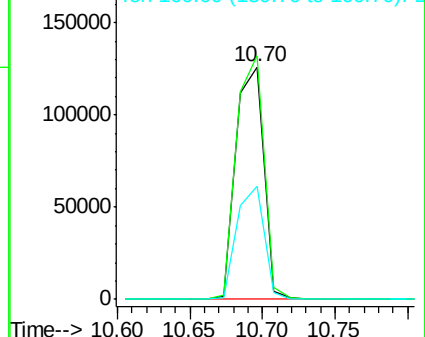
160 48.7 37.7 56.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 87.98 ng

RT: 11.67 min Scan# 917

Delta R.T. -0.02 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

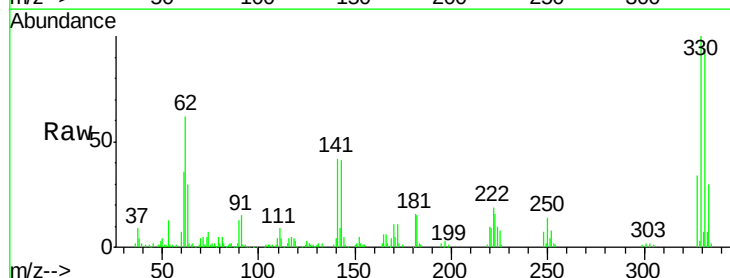
Tgt Ion:330 Resp: 162673

Ion Ratio Lower Upper

330 100

332 95.8 0.0 0.0#

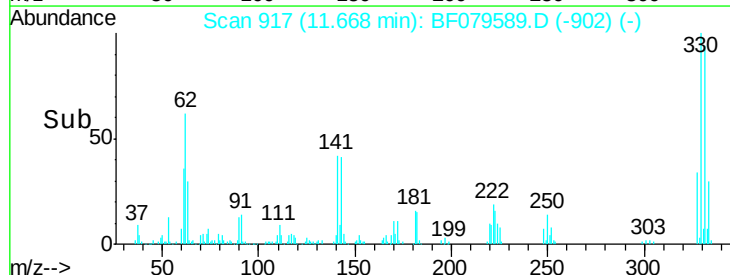
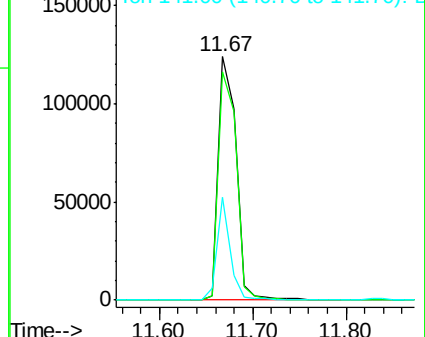
141 31.7 0.0 0.0#

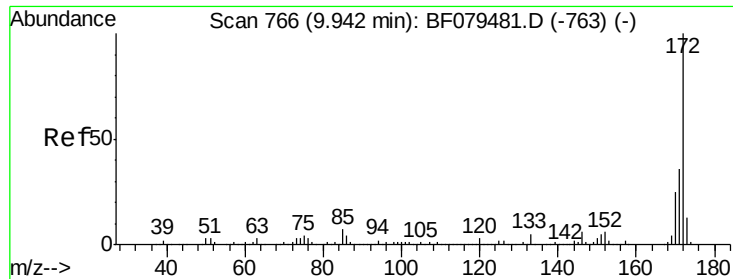


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

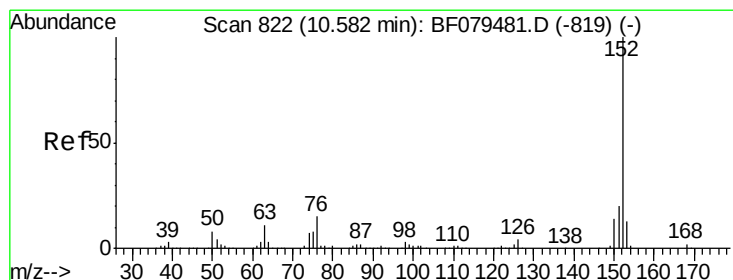
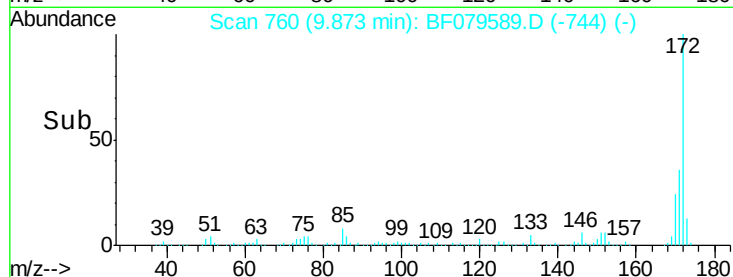
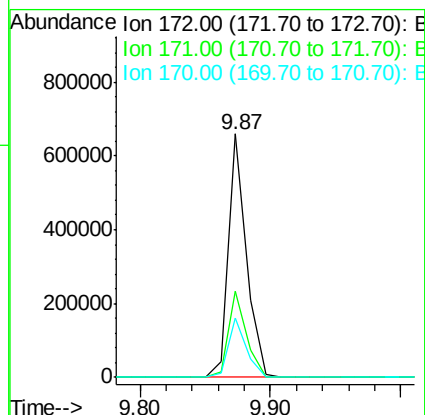
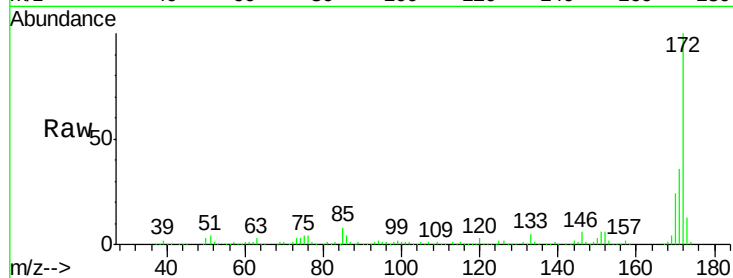




#44
 2-Fluorobiphenyl
 Concen: 53.81 ng
 RT: 9.87 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: BF079589.D
 Acq: 30 May 2015 7:05

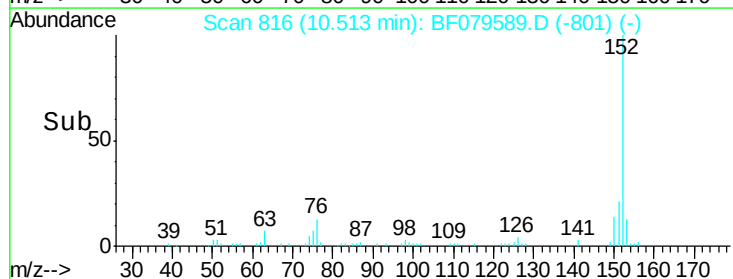
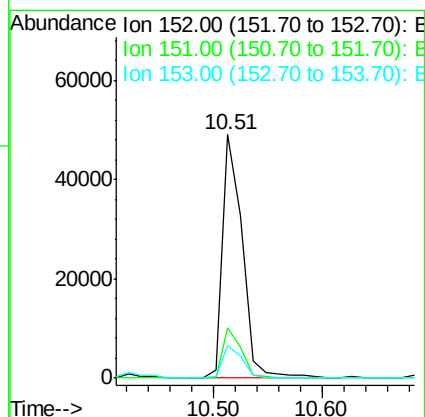
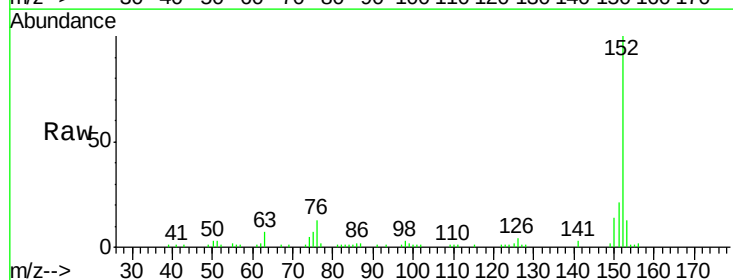
Instrument :
 BNA_F
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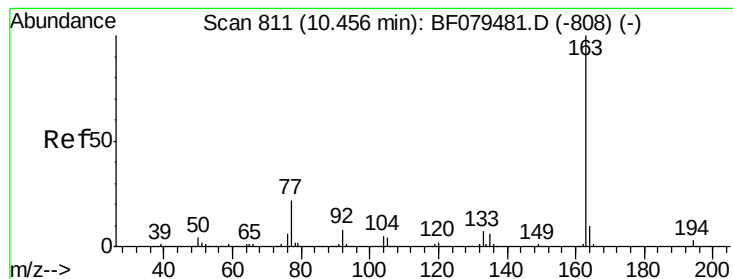
Tgt Ion:172 Resp: 634974
 Ion Ratio Lower Upper
 172 100
 171 35.5 28.5 42.7
 170 24.4 19.7 29.5



#48
 Acenaphthylene
 Concen: 3.60 ng
 RT: 10.51 min Scan# 816
 Delta R.T. -0.02 min
 Lab File: BF079589.D
 Acq: 30 May 2015 7:05

Tgt Ion:152 Resp: 62089
 Ion Ratio Lower Upper
 152 100
 151 20.6 15.8 23.8
 153 13.4 10.7 16.1





#49

Dimethylphthalate

Concen: 8.64 ng

RT: 10.39 min Scan# 805

Delta R.T. -0.02 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

Instrument :

BNA_F

ClientSampleId :

FK-GF-01-016-B

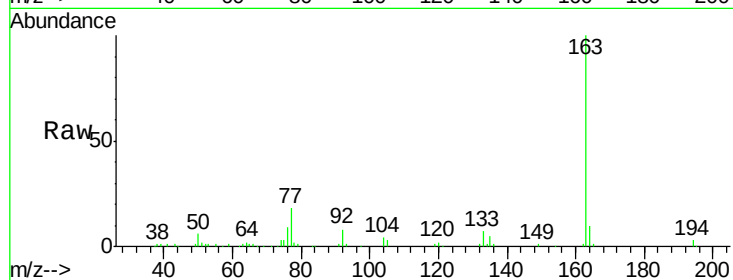
Tgt Ion:163 Resp: 107140

Ion Ratio Lower Upper

163 100

194 3.4 2.4 3.6

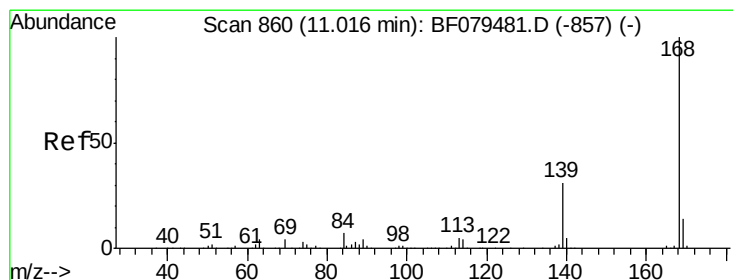
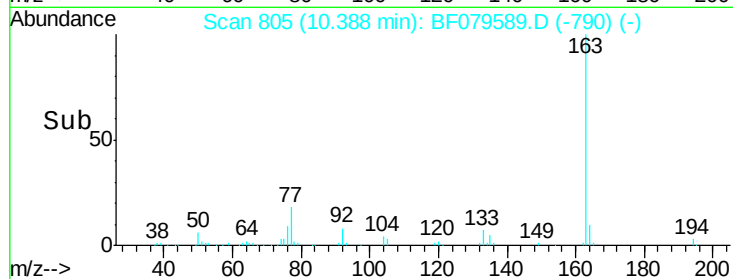
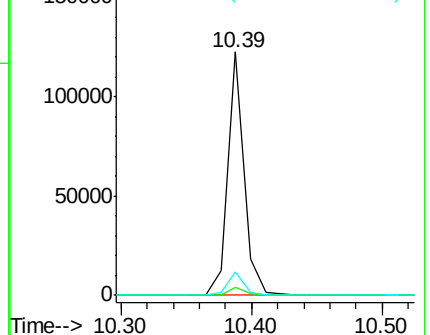
164 9.7 8.2 12.4



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



#54

Dibenzofuran

Concen: 2.07 ng

RT: 10.95 min Scan# 854

Delta R.T. -0.01 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

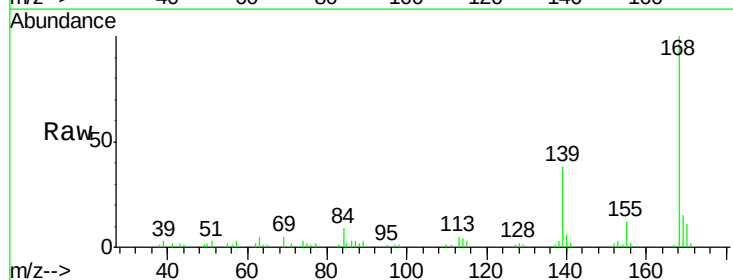
Tgt Ion:168 Resp: 30047

Ion Ratio Lower Upper

168 100

139 37.8 32.9 49.3

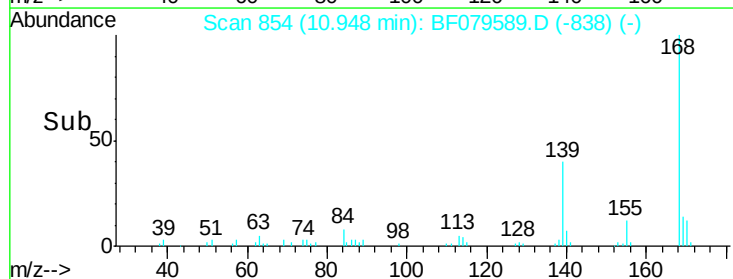
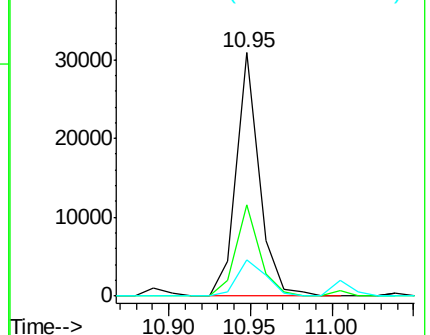
169 14.7 11.1 16.7

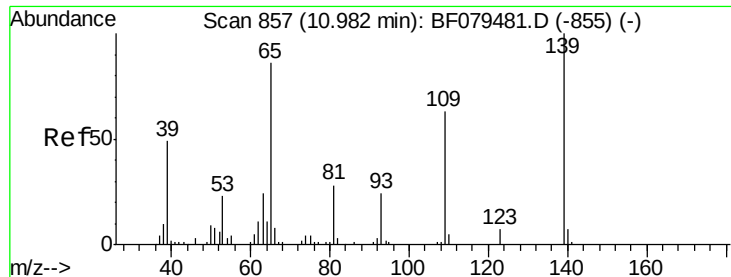


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 6.53 ng

RT: 10.95 min Scan# 854

Delta R.T. 0.02 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

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FK-GF-01-016-B

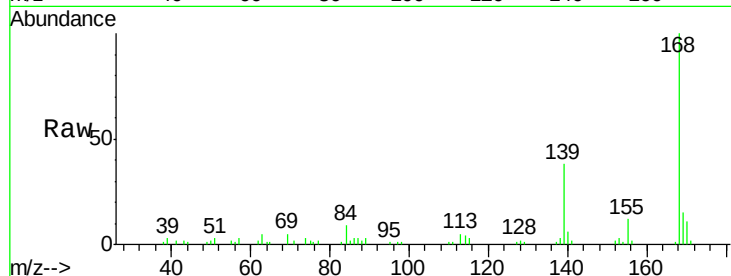
Tgt Ion:139 Resp: 11677

Ion Ratio Lower Upper

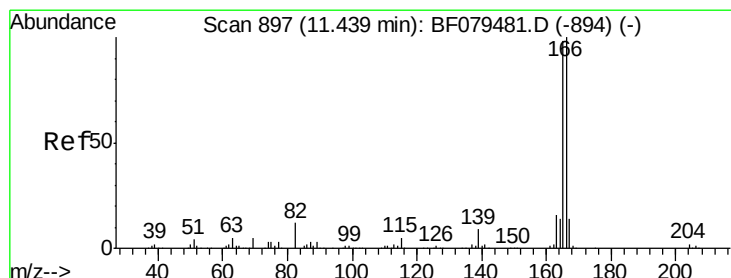
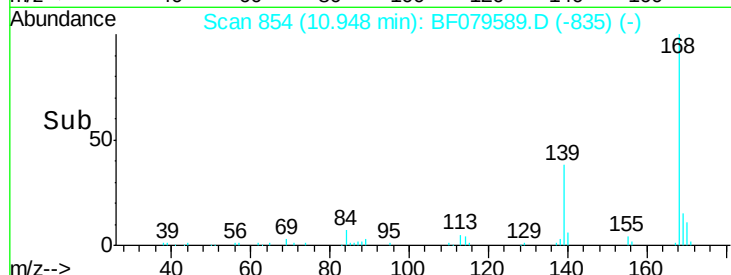
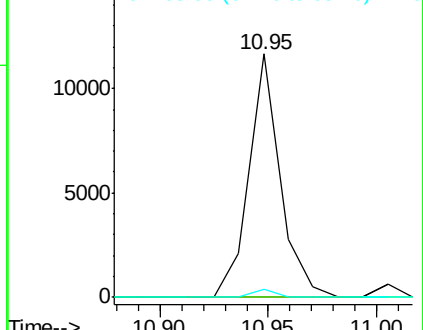
139 100

109 0.0 42.8 82.8#

65 3.5 66.3 106.3#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0



#57

Fluorene

Concen: 4.68 ng

RT: 11.37 min Scan# 891

Delta R.T. -0.01 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

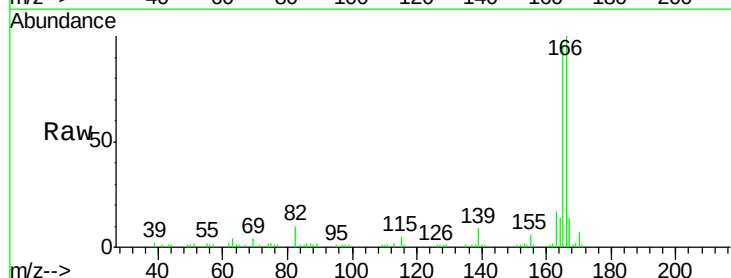
Tgt Ion:166 Resp: 56061

Ion Ratio Lower Upper

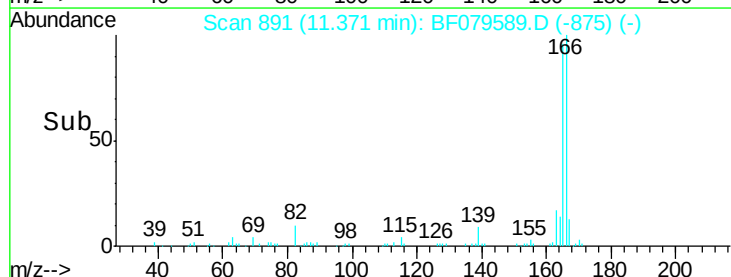
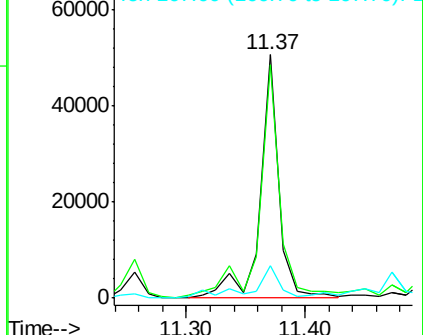
166 100

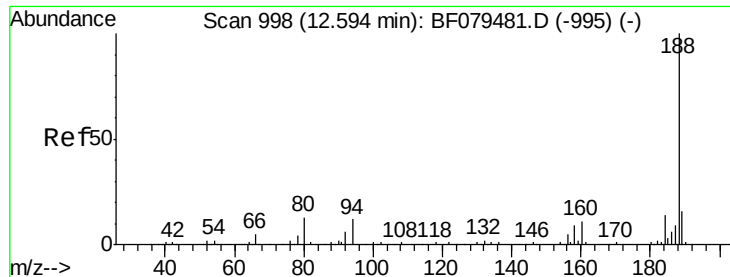
165 95.9 78.6 117.8

167 13.5 10.8 16.2



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

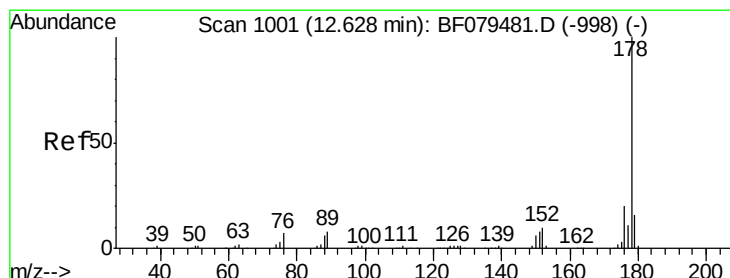
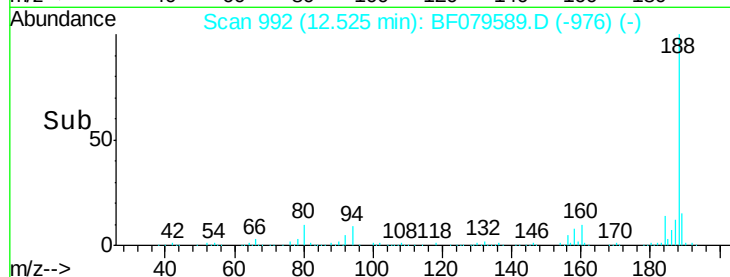
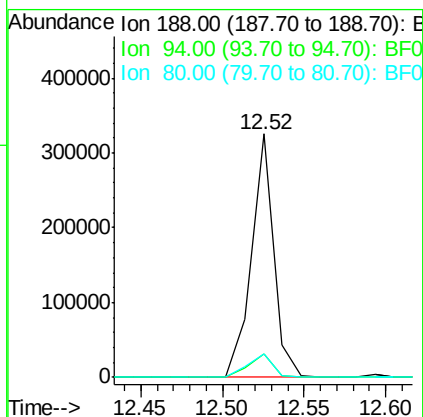
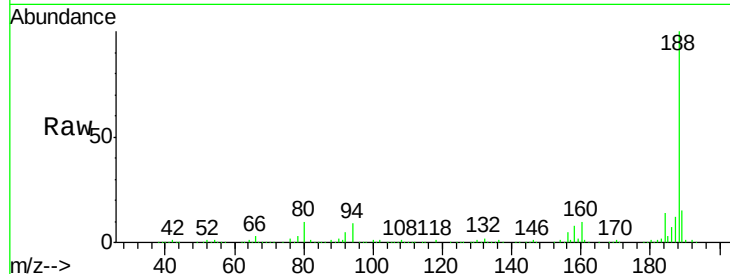




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.52 min Scan# 992
 Delta R.T. -0.01 min
 Lab File: BF079589.D
 Acq: 30 May 2015 7:05

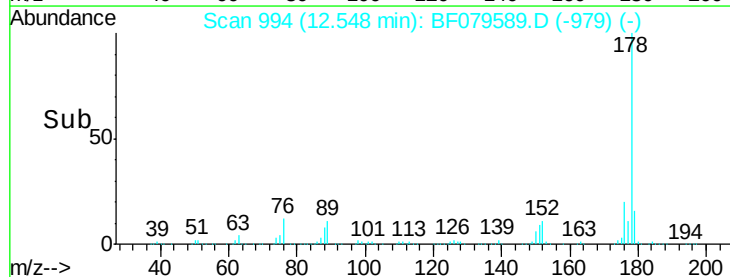
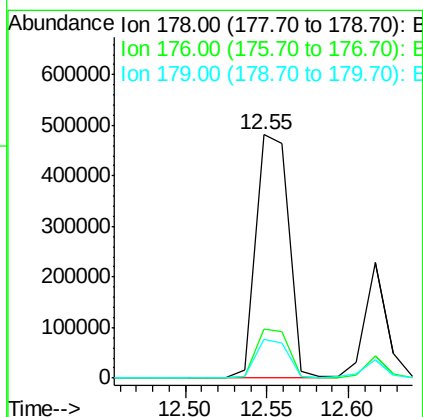
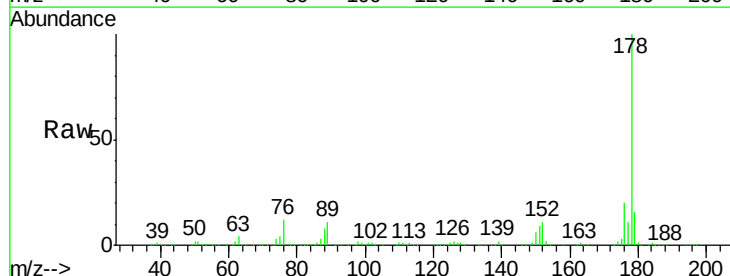
Instrument :
 BNA_F
 ClientSampleId :
 FK-GF-01-016-B

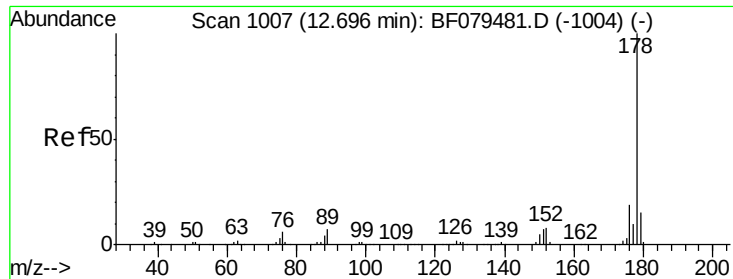
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.4	9.8	14.6#
80	9.7	10.5	15.7#



#70
 Phenanthrene
 Concen: 39.72 ng
 RT: 12.55 min Scan# 994
 Delta R.T. -0.02 min
 Lab File: BF079589.D
 Acq: 30 May 2015 7:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.7	23.5
179	15.9	12.4	18.6

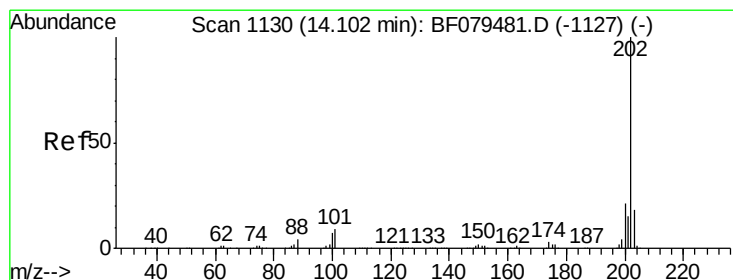
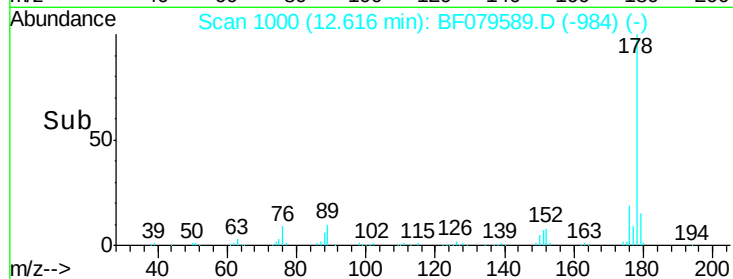
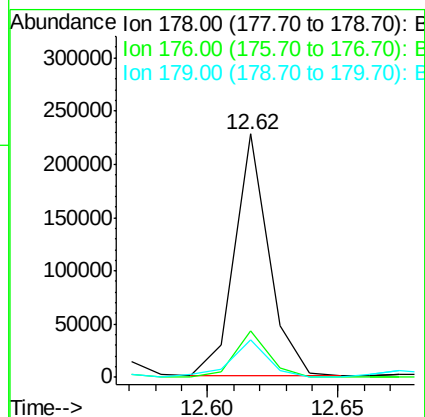
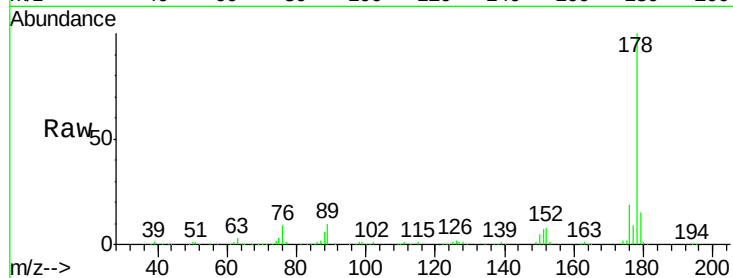




#71
 Anthracene
 Concen: 12.22 ng
 RT: 12.62 min Scan# 1000
 Delta R.T. -0.01 min
 Lab File: BF079589.D
 Acq: 30 May 2015 7:05

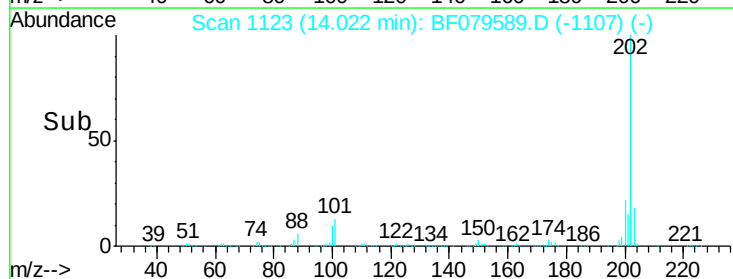
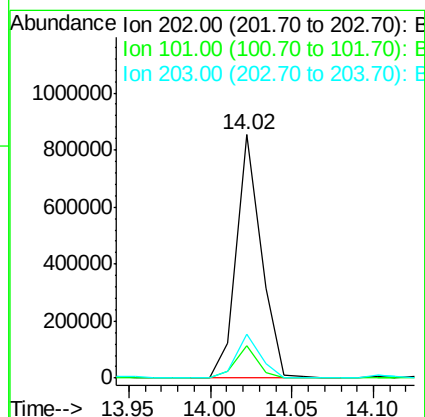
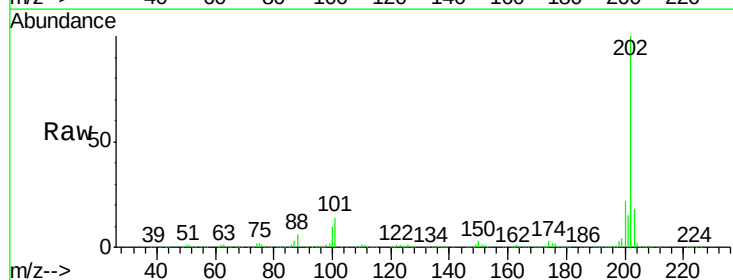
Instrument :
 BNA_F
 ClientSampleId :
 FK-GF-01-016-B

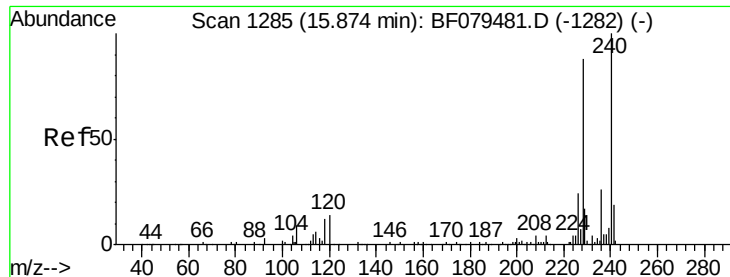
Tgt Ion:178 Resp: 210272
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.3 22.9
 179 15.4 12.2 18.4



#74
 Fluoranthene
 Concen: 49.41 ng
 RT: 14.02 min Scan# 1123
 Delta R.T. -0.01 min
 Lab File: BF079589.D
 Acq: 30 May 2015 7:05

Tgt Ion:202 Resp: 897790
 Ion Ratio Lower Upper
 202 100
 101 13.5 0.0 29.3
 203 18.1 0.0 37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.81 min Scan# 1279

Delta R.T. -0.03 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

Instrument :

BNA_F

ClientSampleId :

FK-GF-01-016-B

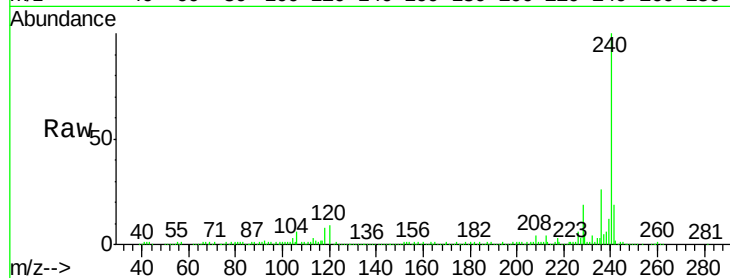
Tgt Ion:240 Resp: 306050

Ion Ratio Lower Upper

240 100

120 9.3 10.8 16.2#

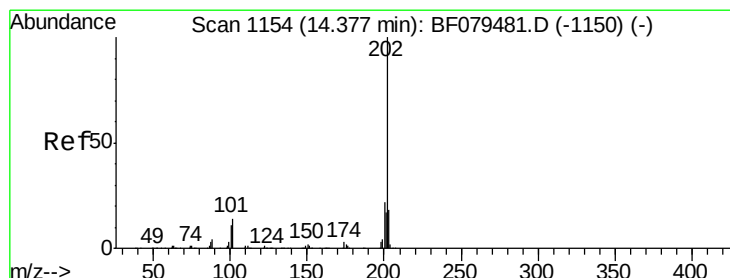
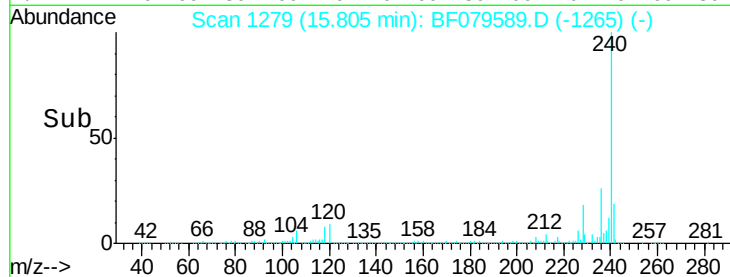
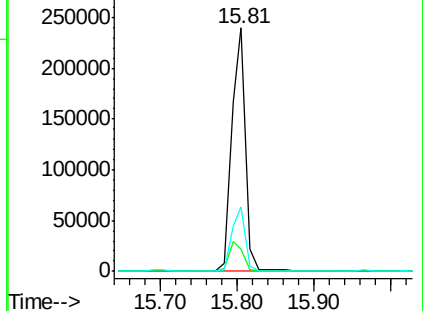
236 26.2 21.0 31.6



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: 40.35 ng

RT: 14.30 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

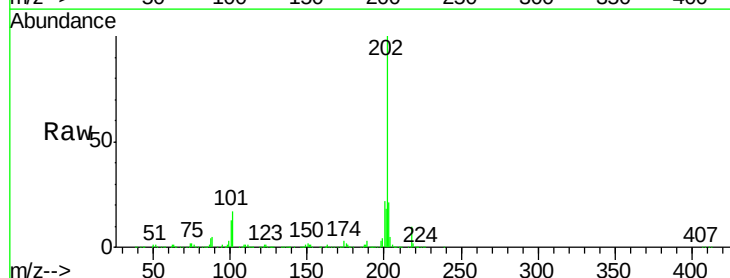
Tgt Ion:202 Resp: 765013

Ion Ratio Lower Upper

202 100

200 21.9 17.5 26.3

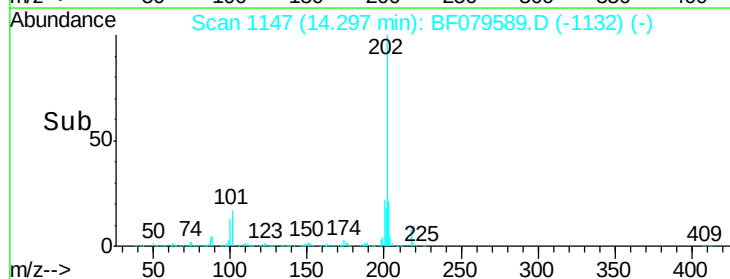
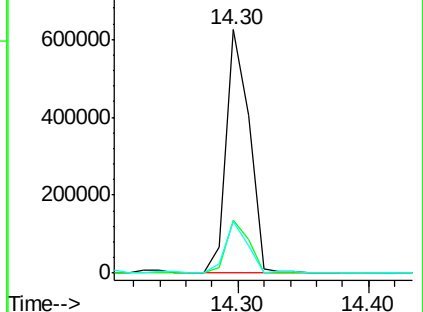
203 21.0 14.4 21.6

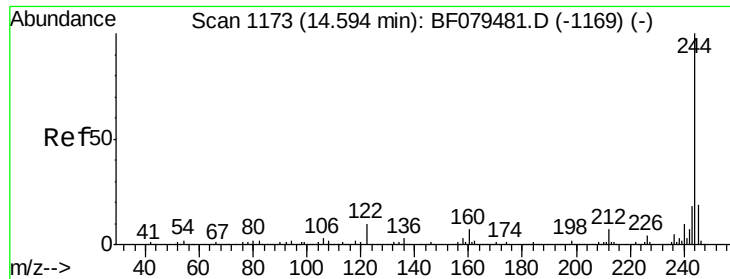


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 48.84 ng

RT: 14.51 min Scan# 1166

Delta R.T. -0.02 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

Instrument :

BNA_F

ClientSampleId :

FK-GF-01-016-B

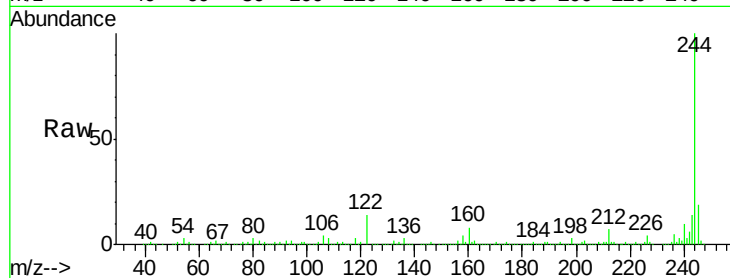
Tgt Ion:244 Resp: 636908

Ion Ratio Lower Upper

244 100

212 7.0 5.2 7.8

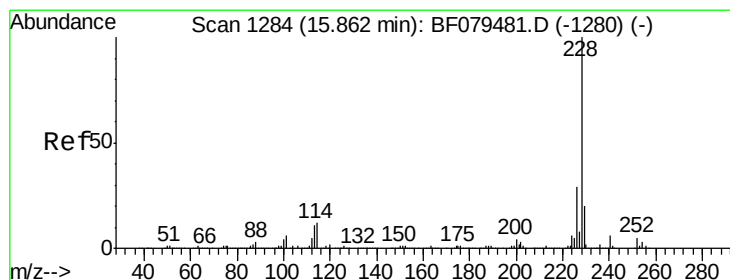
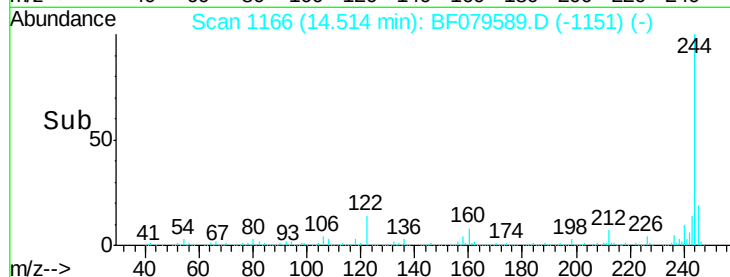
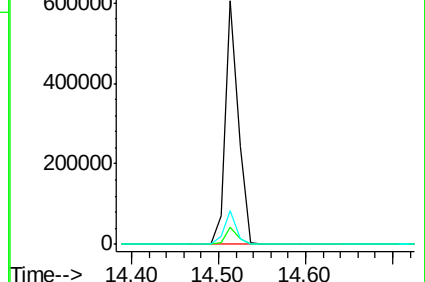
122 13.8 8.0 12.0#



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: 24.87 ng

RT: 15.79 min Scan# 1278

Delta R.T. -0.03 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

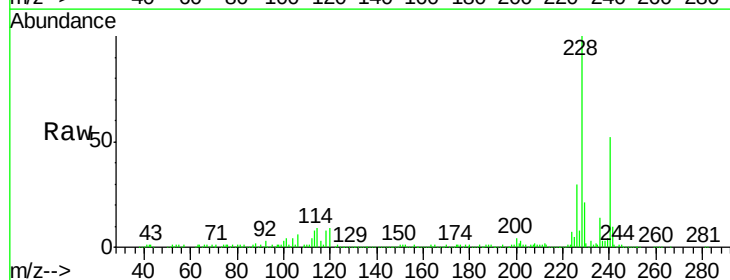
Tgt Ion:228 Resp: 437809

Ion Ratio Lower Upper

228 100

226 30.2 22.8 34.2

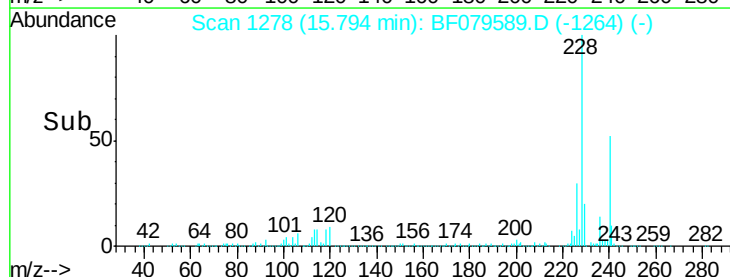
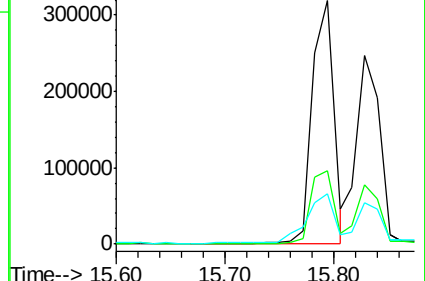
229 20.6 15.9 23.9

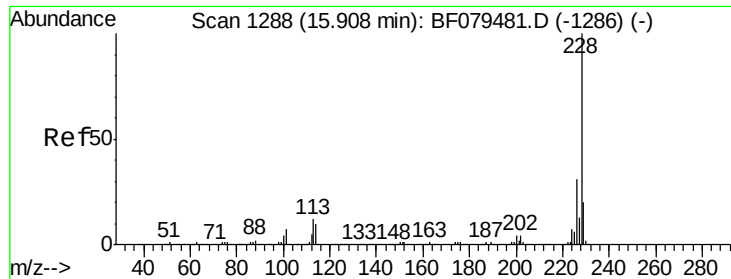


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 18.67 ng

RT: 15.83 min Scan# 1281

Delta R.T. -0.05 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

Instrument :

BNA_F

ClientSampleId :

FK-GF-01-016-B

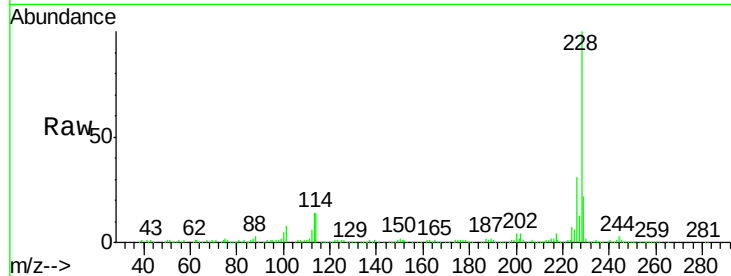
Tgt Ion:228 Resp: 312479

Ion Ratio Lower Upper

228 100

226 31.4 25.0 37.4

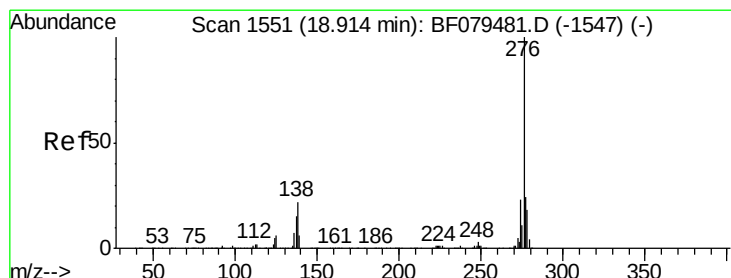
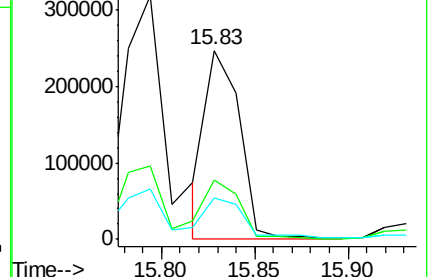
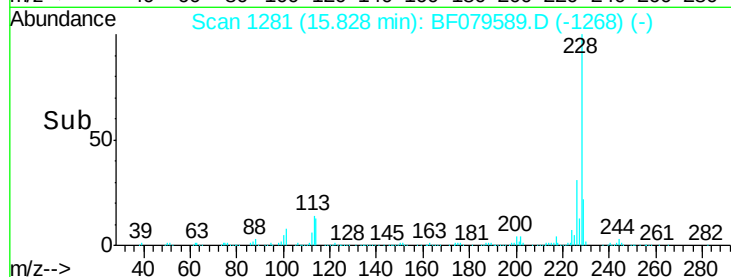
229 21.9 15.9 23.9



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.18 ng

RT: 18.85 min Scan# 1545

Delta R.T. -0.17 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

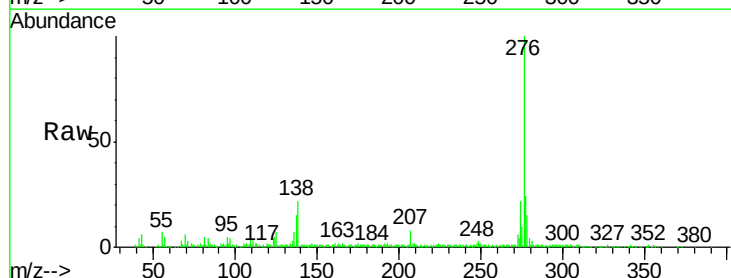
Tgt Ion:276 Resp: 176169

Ion Ratio Lower Upper

276 100

138 21.6 21.4 32.2

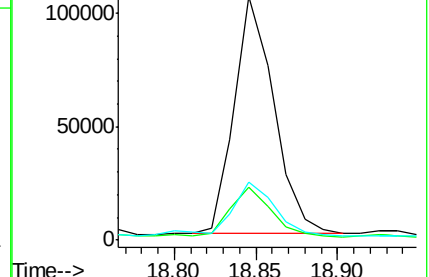
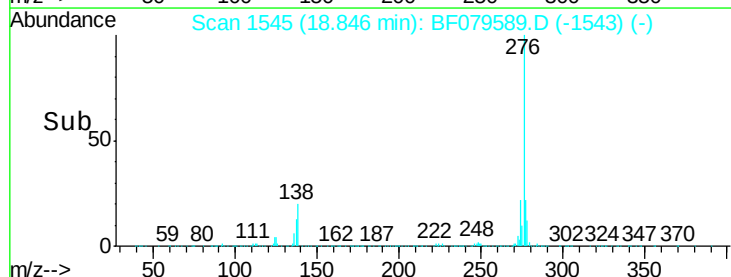
277 23.4 19.8 29.6

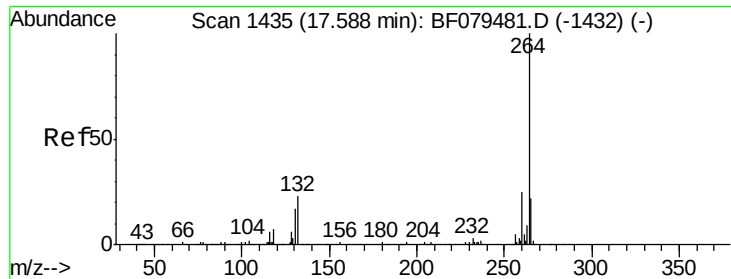


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

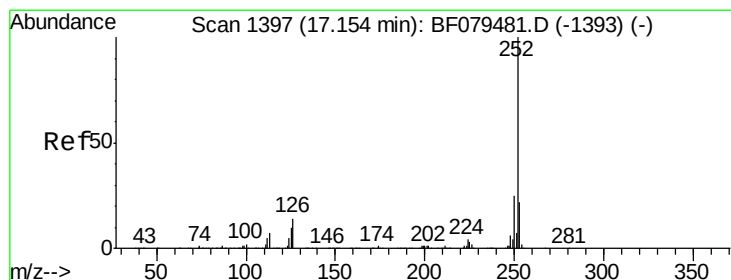
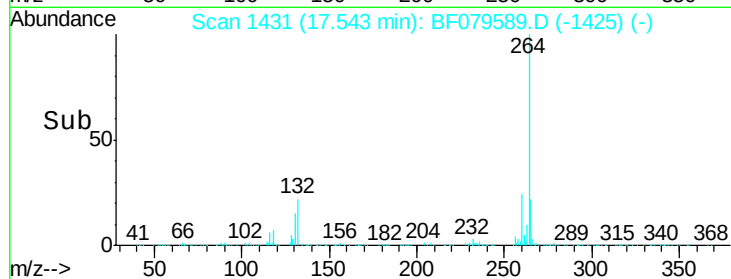
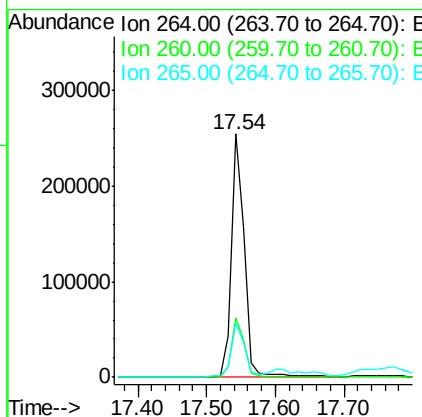
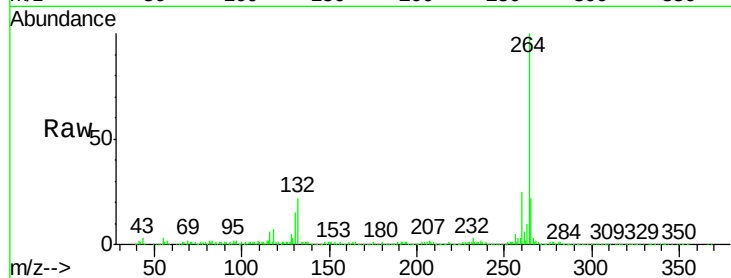




#86
Perylene-d12
Concen: 20.00 ng
RT: 17.54 min Scan# 1431
Delta R.T. -0.13 min
Lab File: BF079589.D
Acq: 30 May 2015 7:05

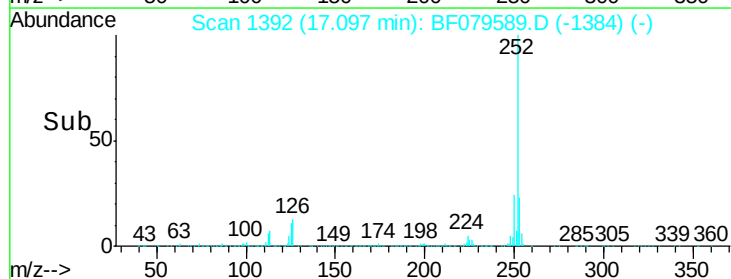
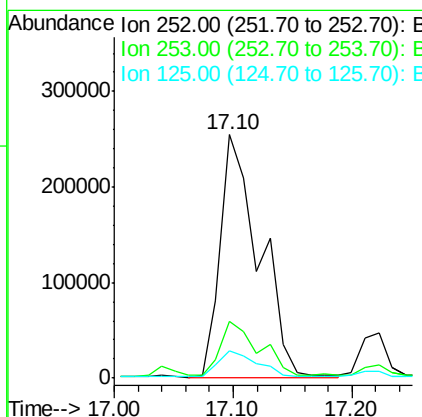
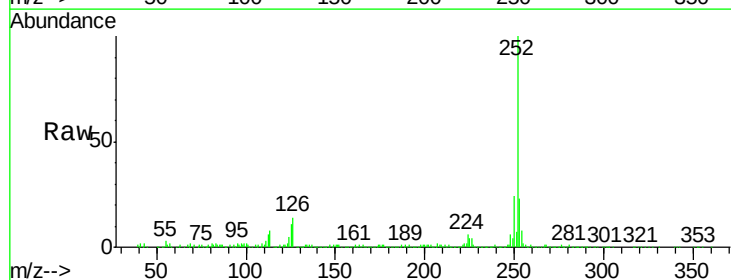
Instrument :
BNA_F
ClientSampleId :
FK-GF-01-016-B

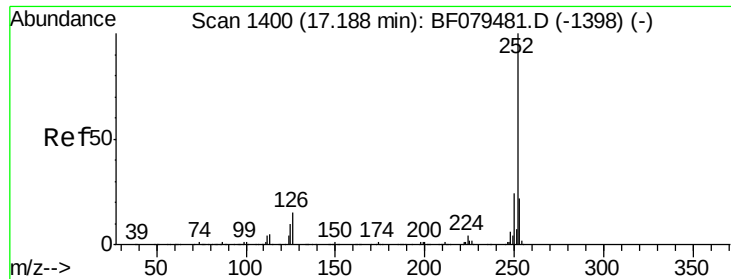
Tgt Ion:264 Resp: 334295
Ion Ratio Lower Upper
264 100
260 24.6 19.8 29.8
265 22.5 17.8 26.6



#87
Benzo(b)fluoranthene
Concen: 30.47 ng
RT: 17.10 min Scan# 1392
Delta R.T. -0.10 min
Lab File: BF079589.D
Acq: 30 May 2015 7:05

Tgt Ion:252 Resp: 580996
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 11.4 7.8 11.6

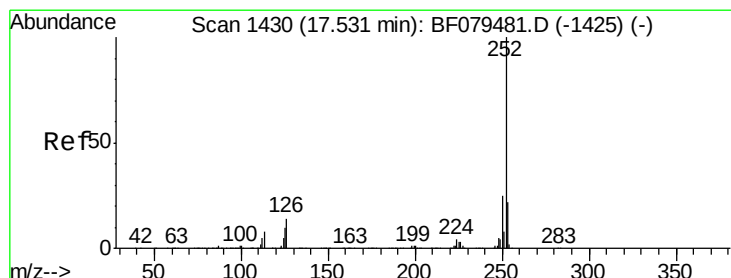
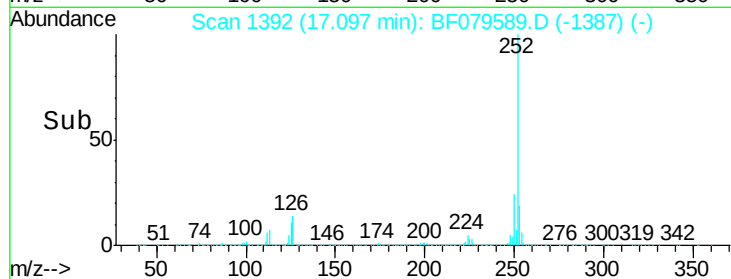
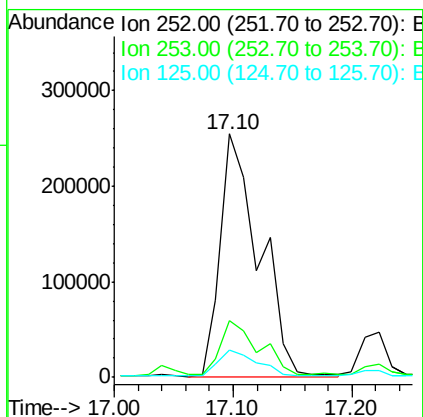
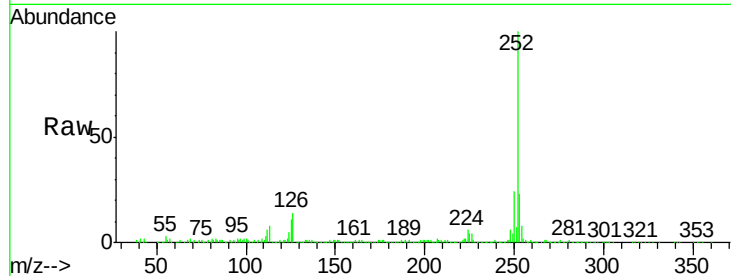




#88
Benzo(k)fluoranthene
Concen: 34.08 ng
RT: 17.10 min Scan# 1392
Delta R.T. -0.14 min
Lab File: BF079589.D
Acq: 30 May 2015 7:05

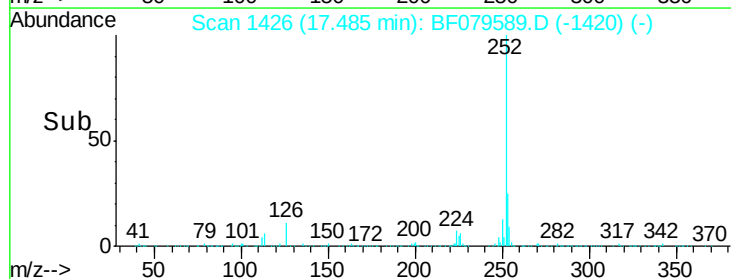
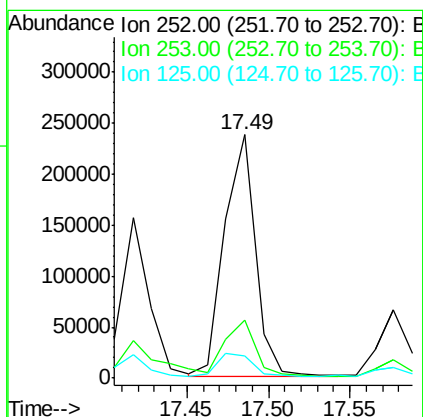
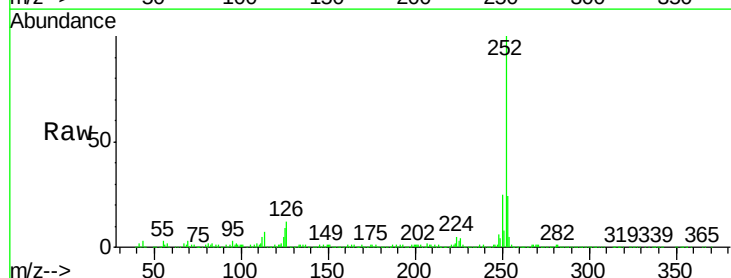
Instrument :
BNA_F
ClientSampleId :
FK-GF-01-016-B

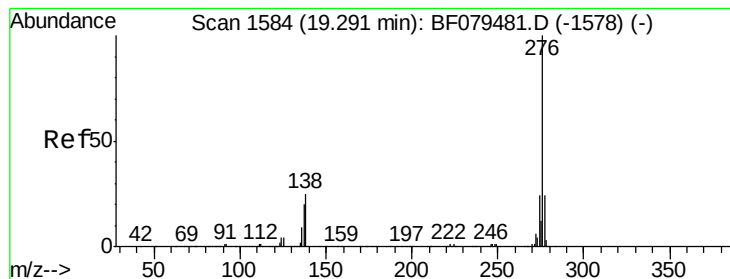
Tgt Ion:252 Resp: 580996
Ion Ratio Lower Upper
252 100
253 23.2 17.2 25.8
125 11.4 6.8 10.2#



#89
Benzo(a)pyrene
Concen: 17.60 ng
RT: 17.49 min Scan# 1426
Delta R.T. -0.13 min
Lab File: BF079589.D
Acq: 30 May 2015 7:05

Tgt Ion:252 Resp: 313853
Ion Ratio Lower Upper
252 100
253 23.7 17.8 26.8
125 9.3 7.9 11.9





#91

Benzo(g,h,i)perylene

Concen: 6.80 ng

RT: 19.22 min Scan# 1578

Delta R.T. -0.18 min

Lab File: BF079589.D

Acq: 30 May 2015 7:05

Instrument :

BNA_F

ClientSampleId :

FK-GF-01-016-B

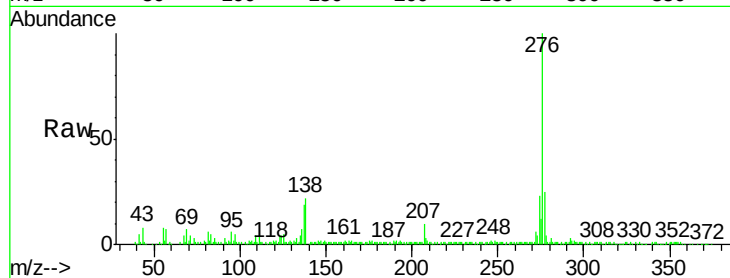
Tgt Ion: 276 Resp: 157082

Ion Ratio Lower Upper

276 100

277 24.9 19.1 28.7

138 22.0 20.1 30.1



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

