

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
 Data File : BF079543.D
 Acq On : 28 May 2015 14:38
 Operator : TP/IZ
 Sample : G2359-10DL 2X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 28 15:09:49 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 27 01:32:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ng	-7.02
21) Naphthalene-d8	8.54	136	307363	20.00	ng	-0.06
38) Acenaphthene-d10	10.71	164	163214	20.00	ng	-0.06
63) Phenanthrene-d10	12.54	188	307698	20.00	ng	-0.06
75) Chrysene-d12	15.81	240	289203	20.00	ng	-0.07
86) Perylene-d12	17.53	264	320585	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	0.00	99	0	0.00	ng	
23) Nitrobenzene-d5	7.66	82	169963	31.97	ng	-0.06
41) 2,4,6-Tribromophenol	11.68	330	92160	51.41	ng	-0.07
44) 2-Fluorobiphenyl	9.88	172	367987	32.17	ng	-0.06
78) Terphenyl-d14	14.53	244	380738	30.90	ng	-0.07

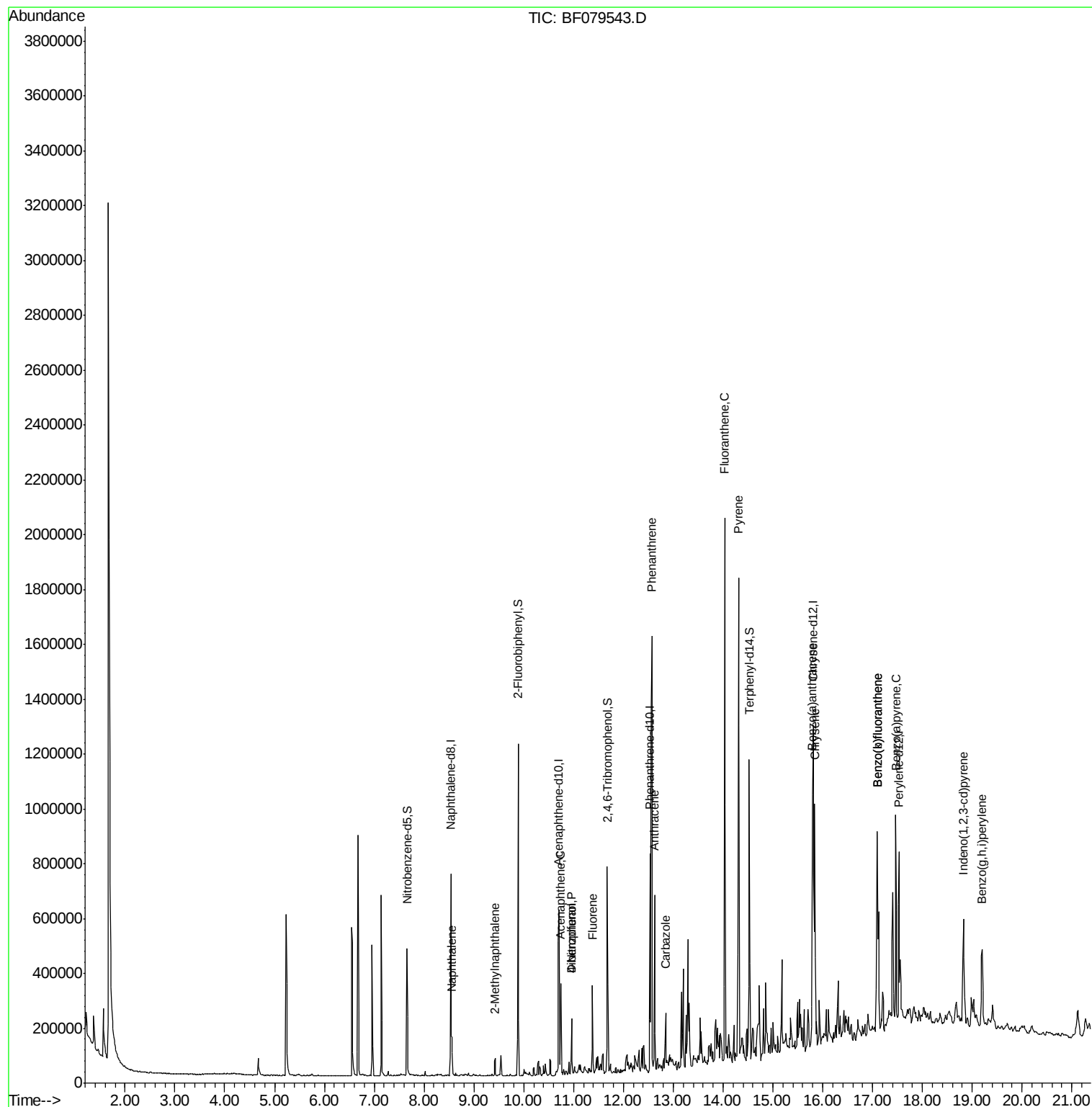
Target Compounds						Qvalue
31) Naphthalene	8.56	128	75139	5.09	ng	100
37) 2-Methylnaphthalene	9.43	142	24014	2.34	ng	96
51) Acenaphthene	10.74	154	72558	7.59	ng	100
54) Dibenzofuran	10.96	168	78817	5.59	ng	95
55) 4-Nitrophenol	10.96	139	30413	17.55	ng	# 14
57) Fluorene	11.38	166	87848	7.56	ng	97
70) Phenanthrene	12.57	178	863269	51.14	ng	99
71) Anthracene	12.63	178	264120	15.41	ng	99
72) Carbazole	12.85	167	94108	5.70	ng	98
73) Di-n-butylphthalate	13.30	149	4552	Below Cal		# 51
74) Fluoranthene	14.03	202	958325	52.94	ng	94
77) Pyrene	14.31	202	878952	49.06	ng	# 92
80) Benzo(a)anthracene	15.79	228	478372	28.75	ng	99
82) Chrysene	15.84	228	392474	24.82	ng	98
85) Indeno(1,2,3-cd)pyrene	18.82	276	242996	11.95	ng	95
87) Benzo(b)fluoranthene	17.10	252	669981	36.64	ng	97
88) Benzo(k)fluoranthene	17.10	252	669981	40.98	ng	# 95
89) Benzo(a)pyrene	17.46	252	382459	22.91	ng	# 95
91) Benzo(a,h,i)perylene	19.20	276	230604	12.30	ng	95

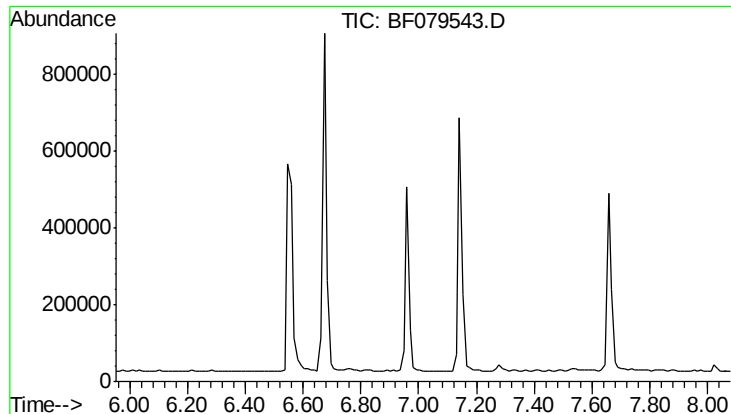
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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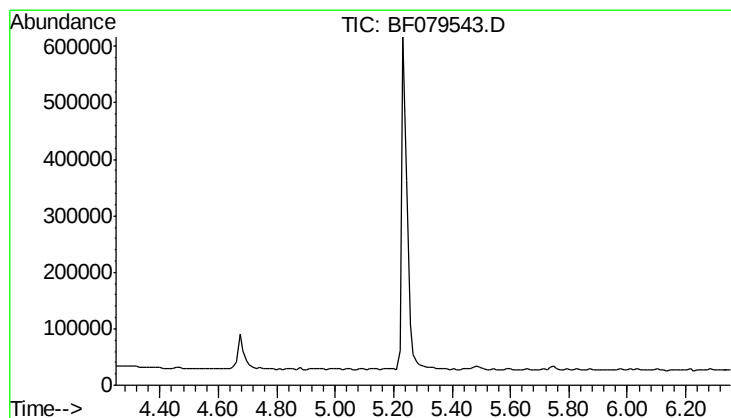
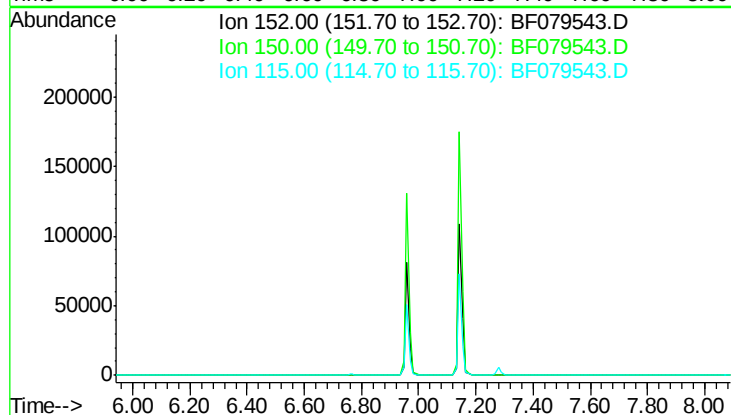




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.00 ng
 Expected RT: 7.02 min
 Lab File: BF079543.D
 Acq: 28 May 2015 14:38

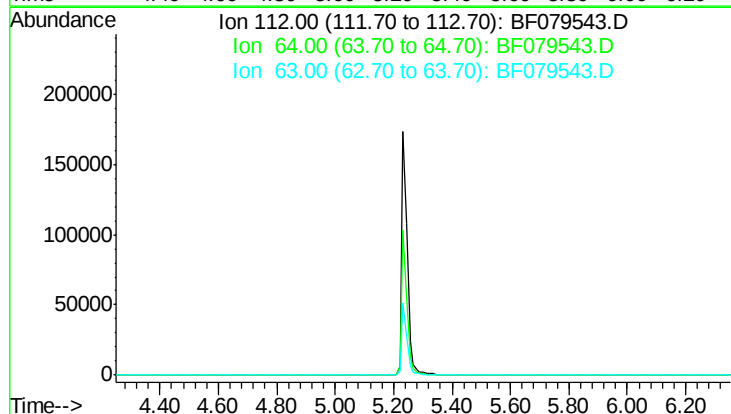
Instrument :
 BNA_F
 ClientSampleId :

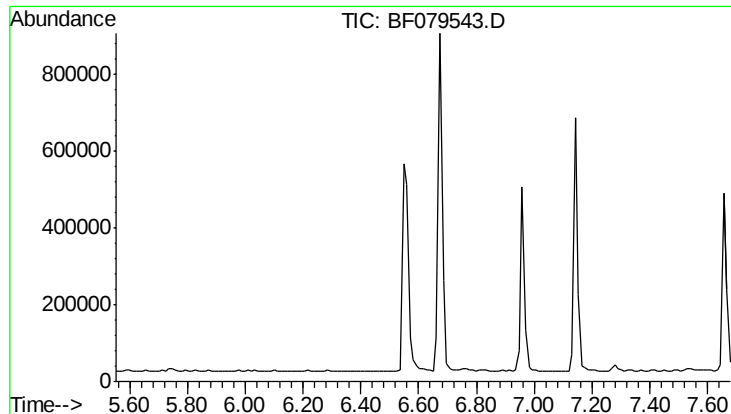
Tot Ion: 152
 Sig Exp Ratio
 152 100
 150 155.0
 115 62.0



#5
 2-Fluorophenol
 Concen: 0.00 ng
 Expected RT: 5.30 min
 Lab File: BF079543.D
 Acq: 28 May 2015 14:38

Tgt Ion: 112
 Sig Exp Ratio
 112 100
 64 54.4
 63 27.3





#7

Phenol-d6

Concen: 0.00 ng

Expected RT: 6.62 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

Instrument :

BNA_F

ClientSampleId :

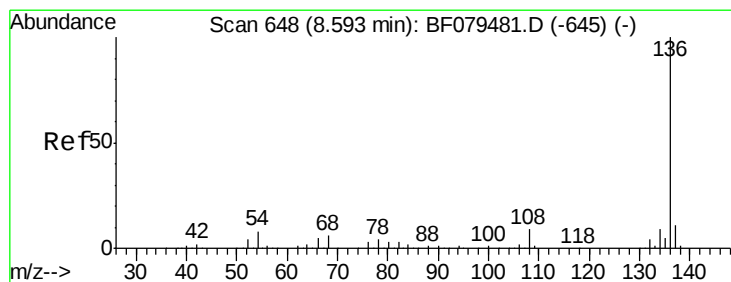
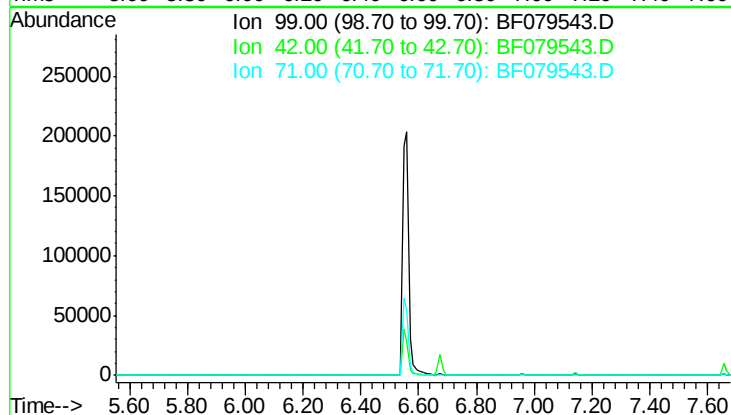
Tot Ion: 99

Sig Exp Ratio

99 100

42 14.9

71 27.6



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.54 min Scan# 643

Delta R.T. -0.06 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

Tgt Ion:136 Resp: 307363

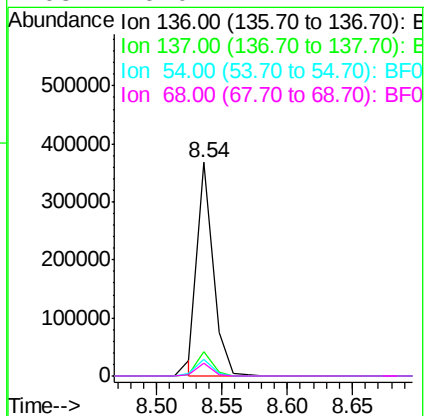
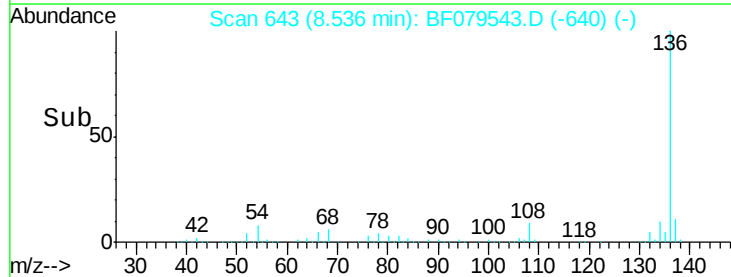
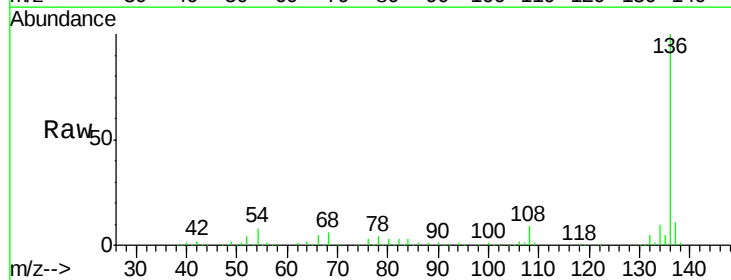
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 7.9 6.6 9.8

68 6.0 4.7 7.1

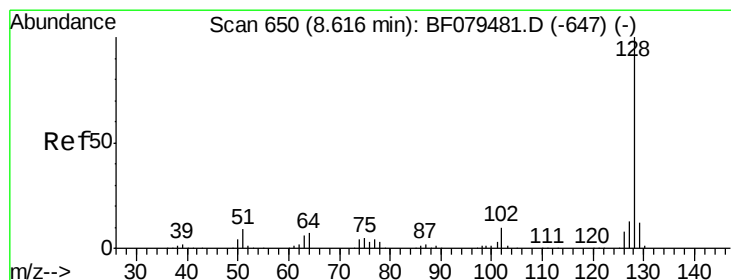
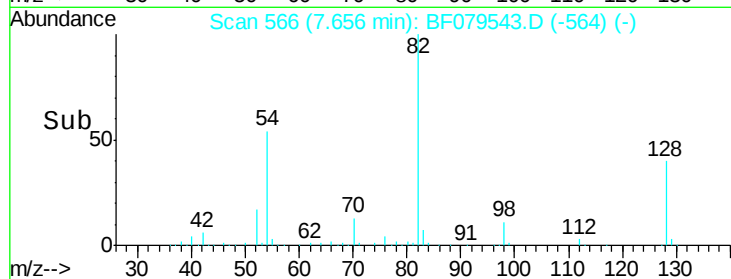
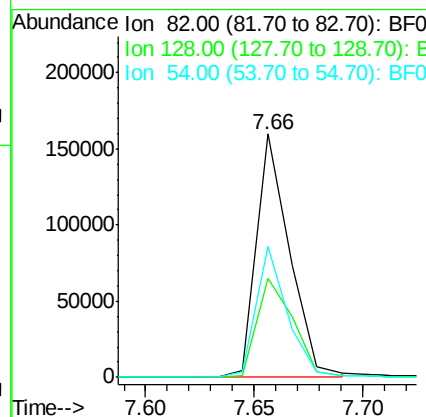
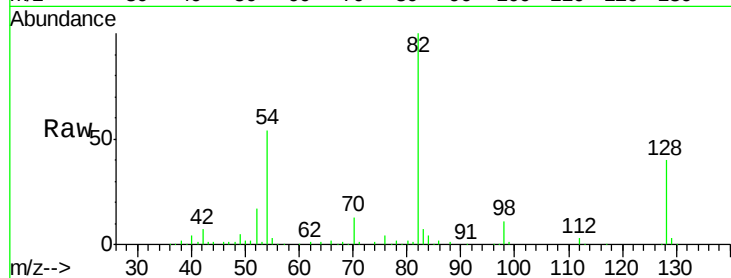




#23
Nitrobenzene-d5
Concen: 31.97 ng
RT: 7.66 min Scan# 566
Delta R.T. -0.06 min
Lab File: BF079543.D
Acq: 28 May 2015 14:38

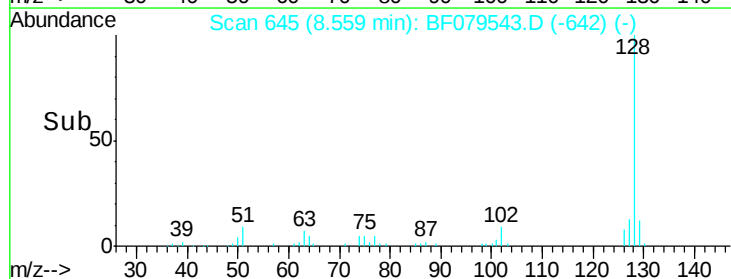
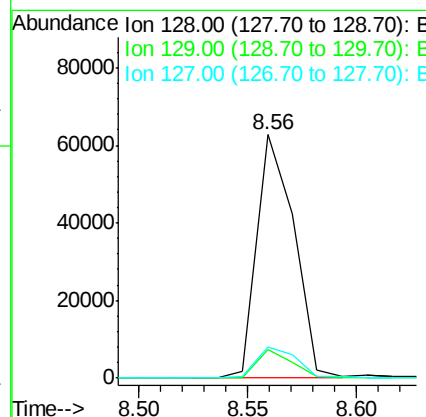
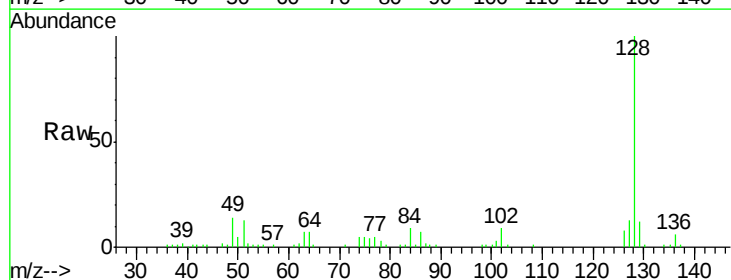
Instrument :
BNA_F
ClientSampleId :

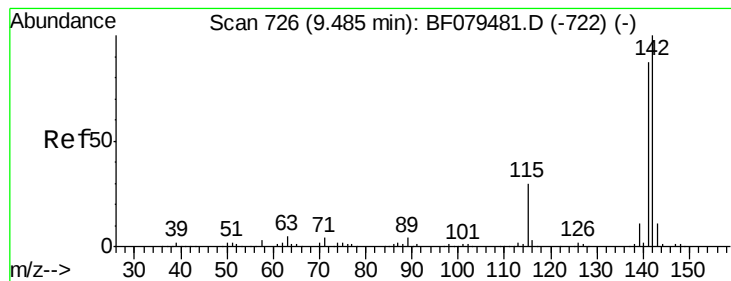
Tot Ion: 82 Resp: 169963
Ion Ratio Lower Upper
82 100
128 40.5 30.8 46.2
54 53.9 42.8 64.2



#31
Naphthalene
Concen: 5.09 ng
RT: 8.56 min Scan# 645
Delta R.T. -0.06 min
Lab File: BF079543.D
Acq: 28 May 2015 14:38

Tgt Ion: 128 Resp: 75139
Ion Ratio Lower Upper
128 100
129 11.5 9.3 13.9
127 13.0 10.6 15.8





#37

2-Methylnaphthalene

Concen: 2.34 ng

RT: 9.43 min Scan# 721

Delta R.T. -0.06 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

Instrument :

BNA_F

ClientSampled :

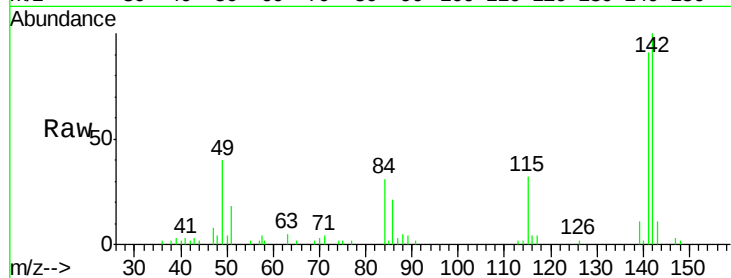
Tot Ion:142 Resp: 24014

Ion Ratio Lower Upper

142 100

141 90.9 69.5 104.3

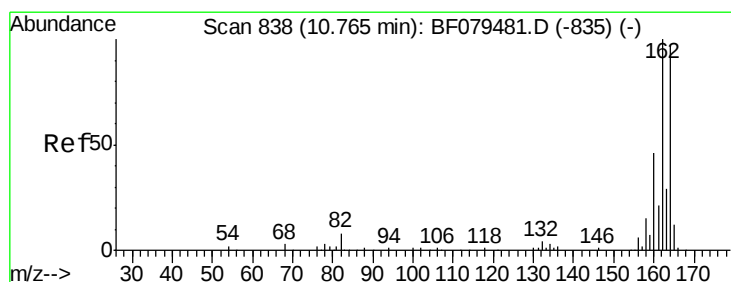
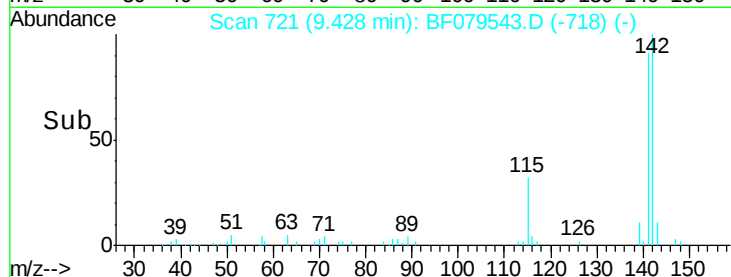
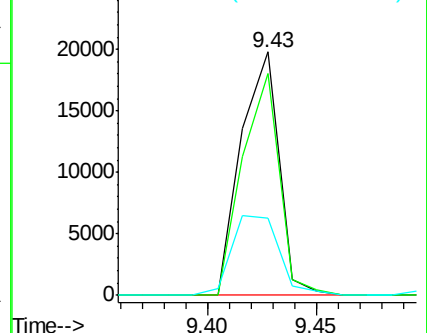
115 31.6 23.8 35.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.71 min Scan# 833

Delta R.T. -0.06 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

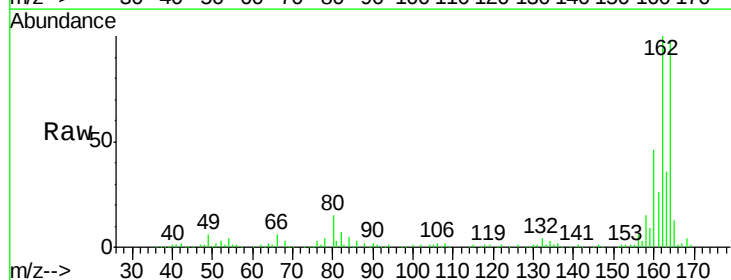
Tgt Ion:164 Resp: 163214

Ion Ratio Lower Upper

164 100

162 102.5 82.6 124.0

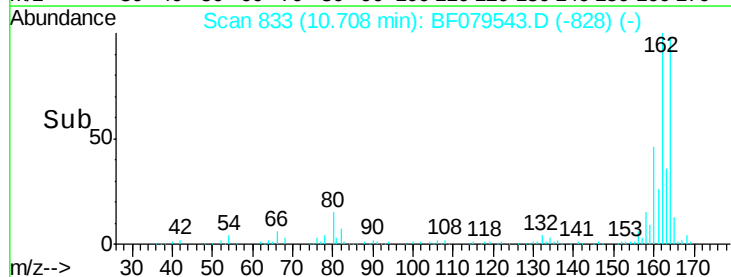
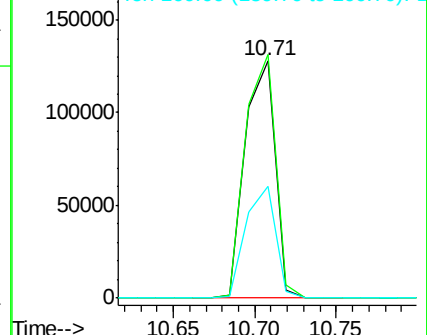
160 47.3 37.7 56.5

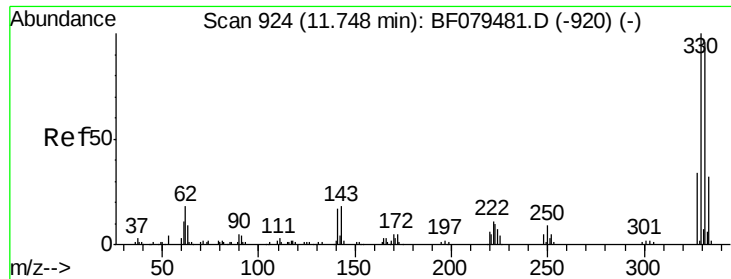


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

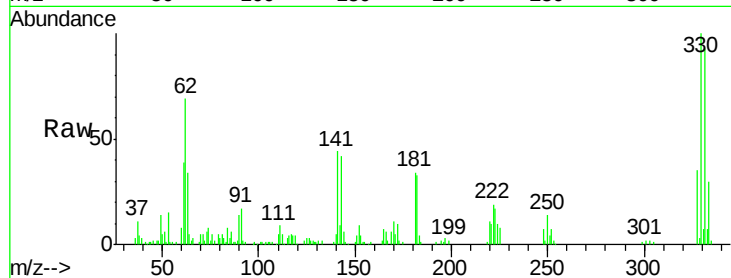




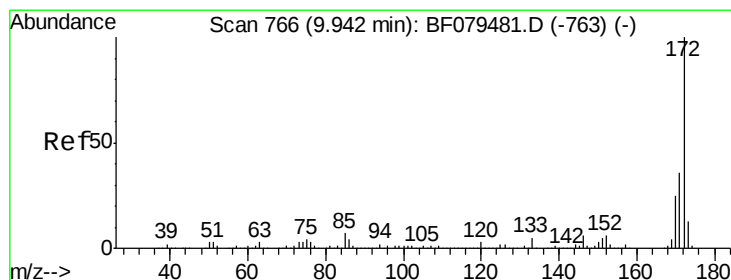
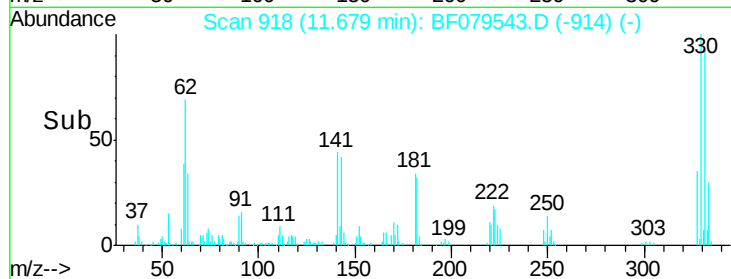
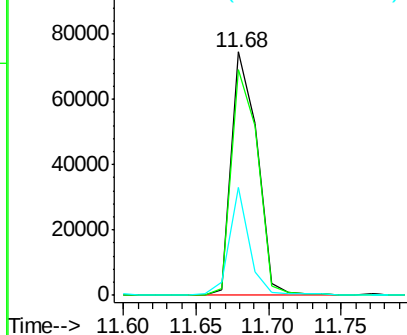
#41
 2,4,6-Tribromophenol
 Concen: 51.41 ng
 RT: 11.68 min Scan# 918
 Delta R.T. -0.07 min
 Lab File: BF079543.D
 Acq: 28 May 2015 14:38

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.2	0.0	0.0#
141	35.2	0.0	0.0#

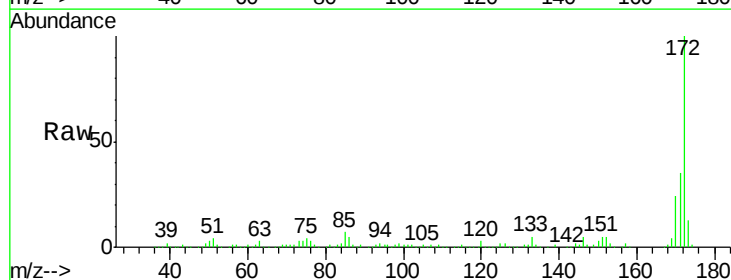


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

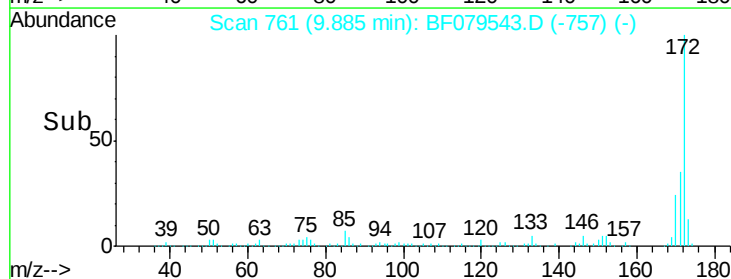
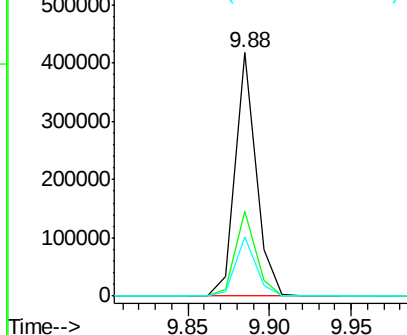


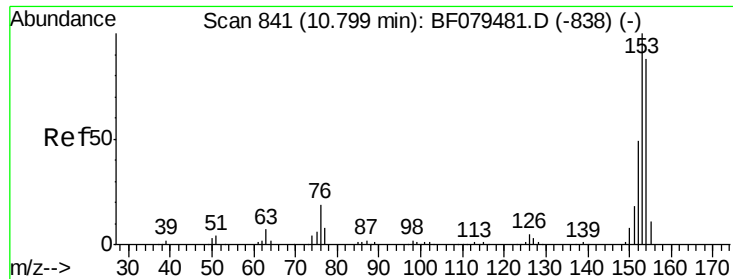
#44
 2-Fluorobiphenyl
 Concen: 32.17 ng
 RT: 9.88 min Scan# 761
 Delta R.T. -0.06 min
 Lab File: BF079543.D
 Acq: 28 May 2015 14:38

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.5	42.7
170	24.2	19.7	29.5



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 7.59 ng

RT: 10.74 min Scan# 836

Delta R.T. -0.06 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

Instrument :

BNA_F

ClientSampleId :

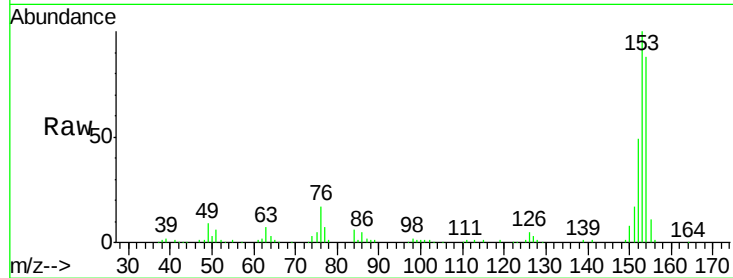
Tot Ion:154 Resp: 72558

Ion Ratio Lower Upper

154 100

153 114.3 91.1 136.7

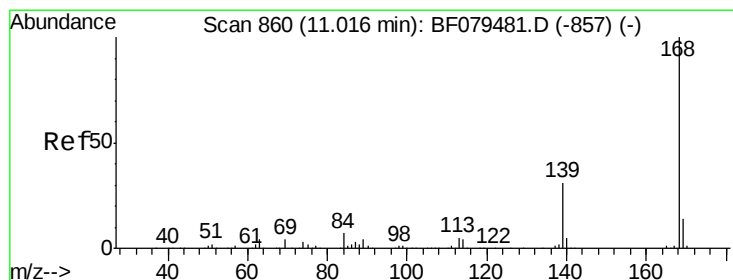
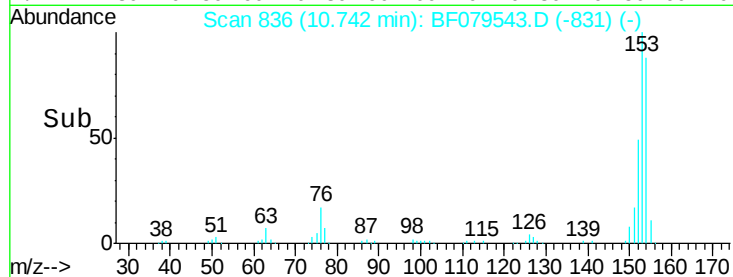
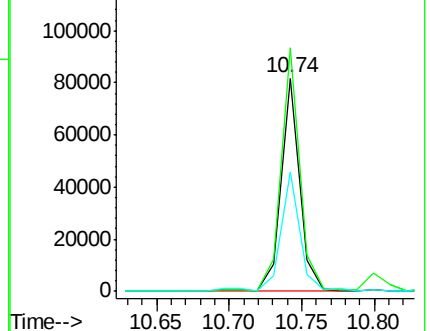
152 55.8 44.6 66.8



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: 5.59 ng

RT: 10.96 min Scan# 855

Delta R.T. -0.06 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

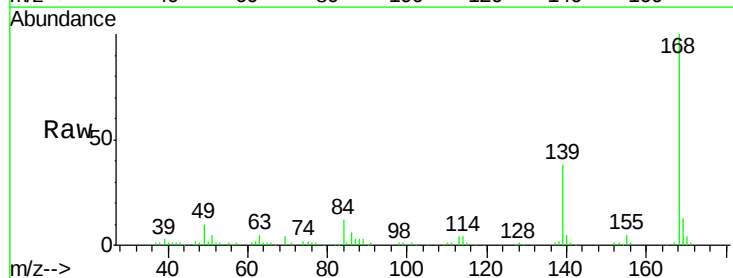
Tgt Ion:168 Resp: 78817

Ion Ratio Lower Upper

168 100

139 37.5 32.9 49.3

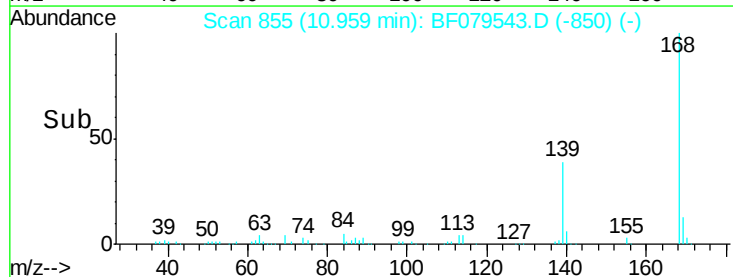
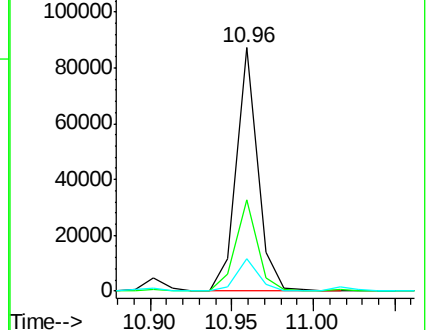
169 13.1 11.1 16.7

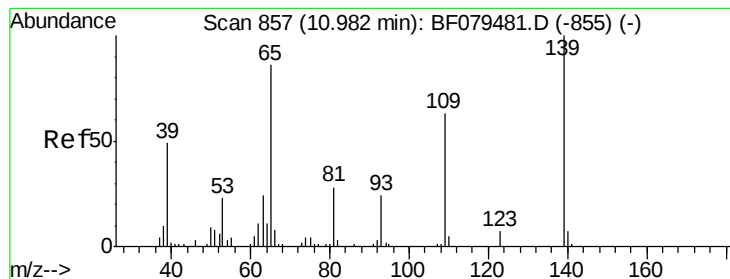


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 17.55 ng

RT: 10.96 min Scan# 855

Delta R.T. -0.02 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

Instrument :

BNA_F

ClientSampled :

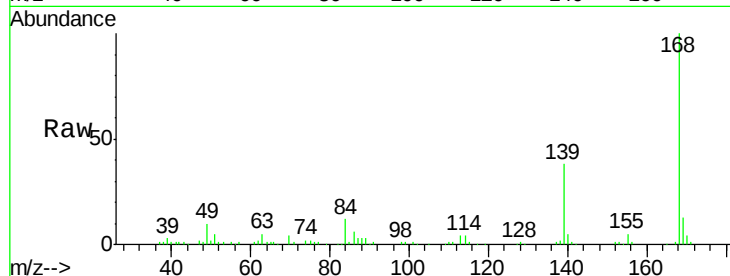
Tot Ion:139 Resp: 30413

Ion Ratio Lower Upper

139 100

109 1.0 42.8 82.8#

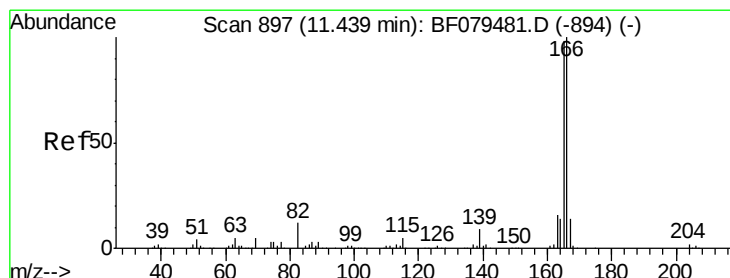
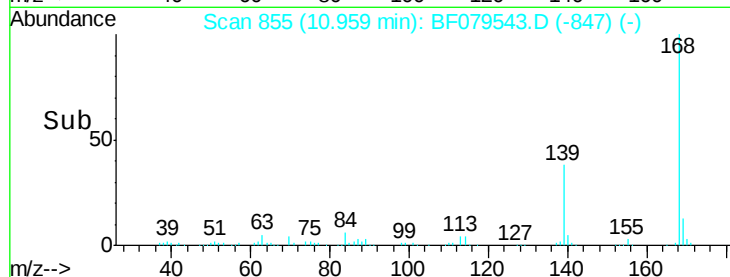
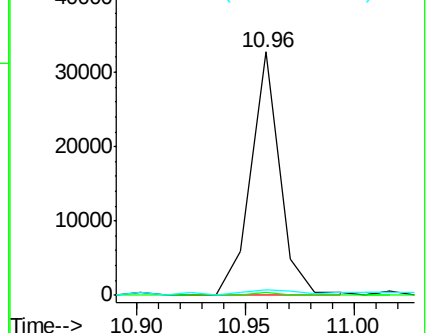
65 2.4 66.3 106.3#



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: 7.56 ng

RT: 11.38 min Scan# 892

Delta R.T. -0.06 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

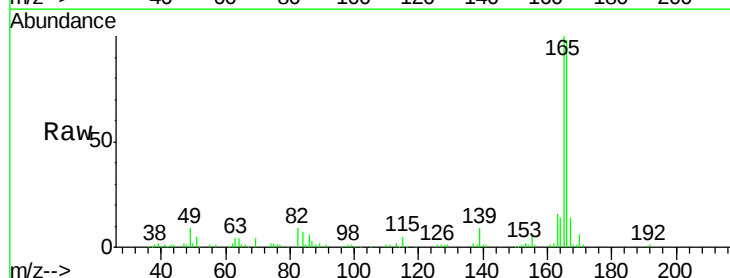
Tgt Ion:166 Resp: 87848

Ion Ratio Lower Upper

166 100

165 101.9 78.6 117.8

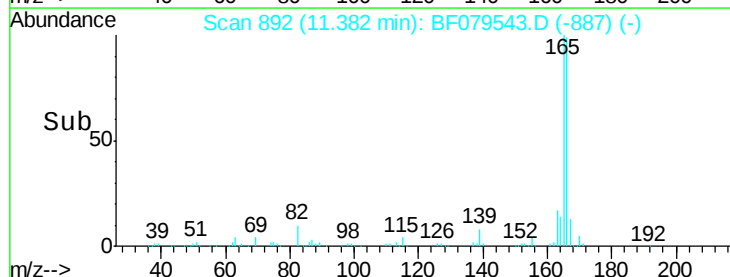
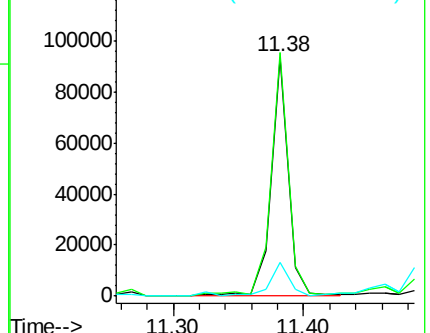
167 14.1 10.8 16.2

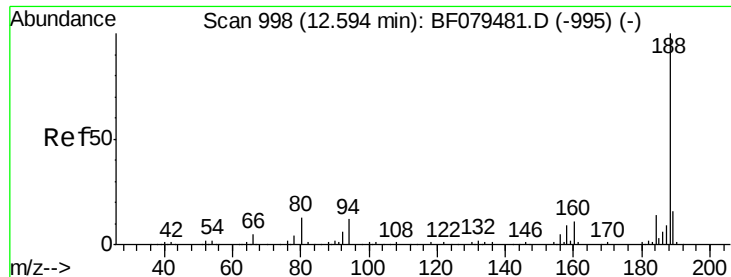


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

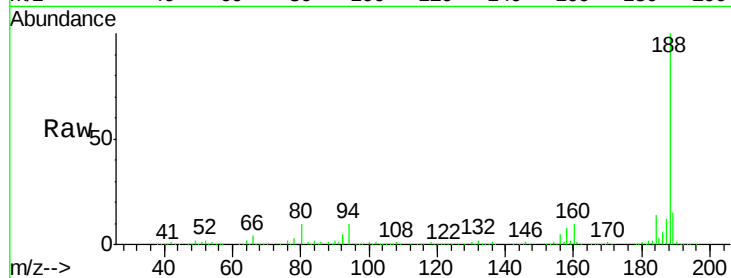




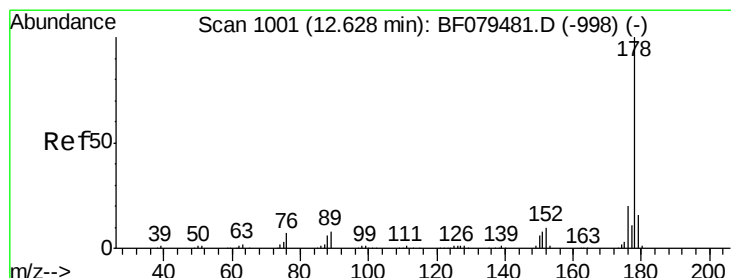
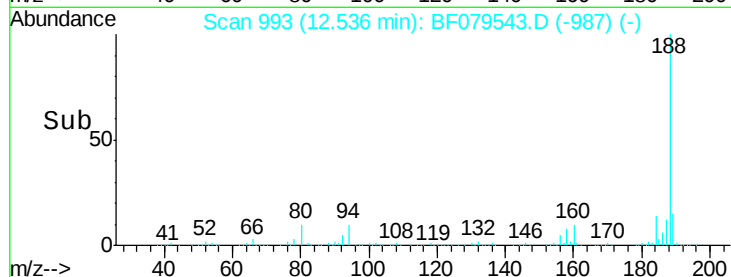
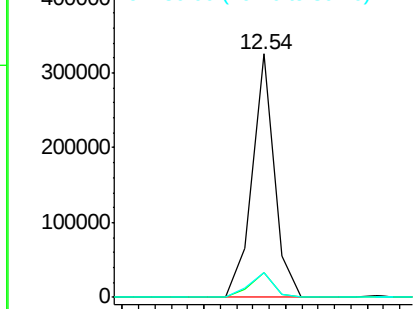
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.54 min Scan# 993
Delta R.T. -0.06 min
Lab File: BF079543.D
Acq: 28 May 2015 14:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 307698
Ion Ratio Lower Upper
188 100
94 10.0 9.8 14.6
80 10.2 10.5 15.7#

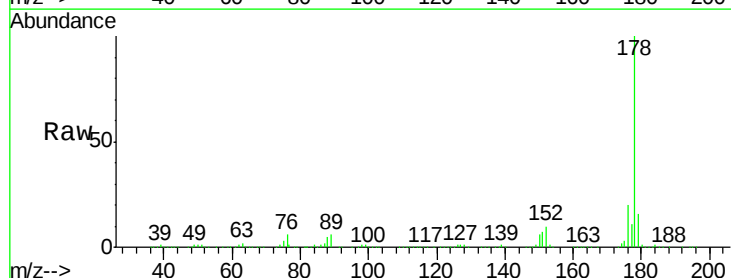


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

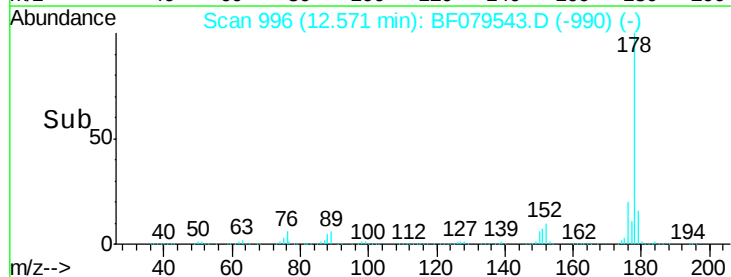
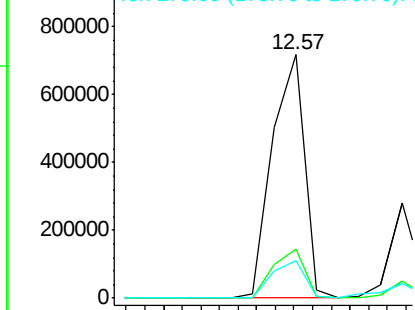


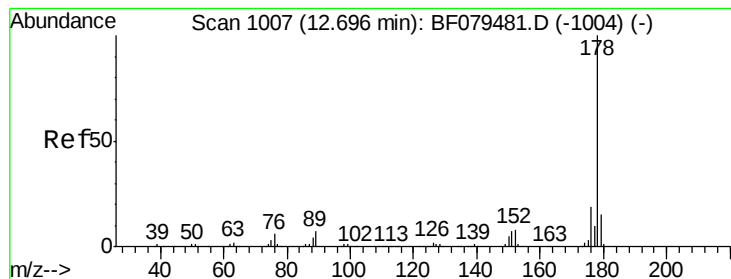
#70
Phenanthrene
Concen: 51.14 ng
RT: 12.57 min Scan# 996
Delta R.T. -0.06 min
Lab File: BF079543.D
Acq: 28 May 2015 14:38

Tgt Ion:178 Resp: 863269
Ion Ratio Lower Upper
178 100
176 20.1 15.7 23.5
179 15.6 12.4 18.6



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





#71

Anthracene

Concen: 15.41 ng

RT: 12.63 min Scan# 1001

Delta R.T. -0.07 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

Instrument :

BNA_F

ClientSampleId :

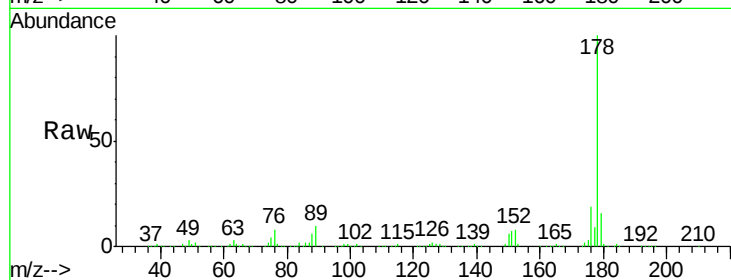
Tot Ion:178 Resp: 264120

Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

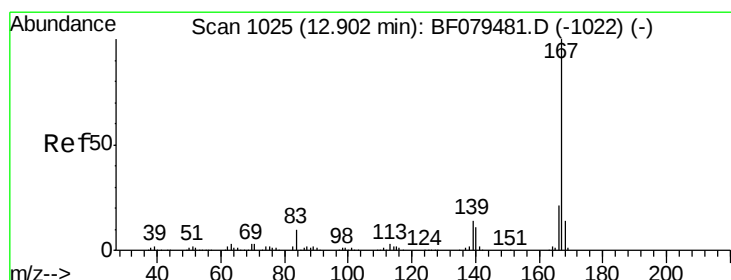
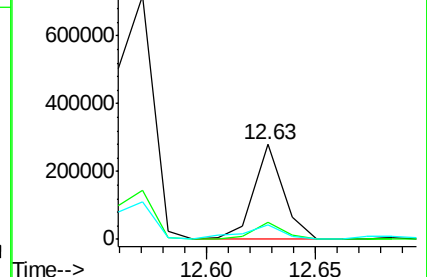
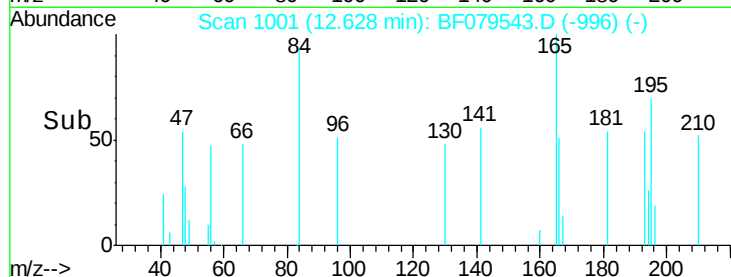
179 15.8 12.2 18.4



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: 5.70 ng

RT: 12.85 min Scan# 1020

Delta R.T. -0.06 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

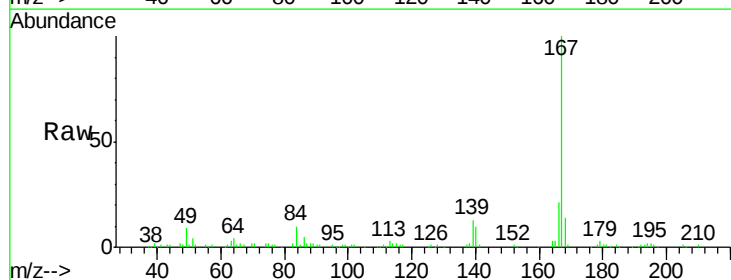
Tgt Ion:167 Resp: 94108

Ion Ratio Lower Upper

167 100

166 20.5 17.0 25.4

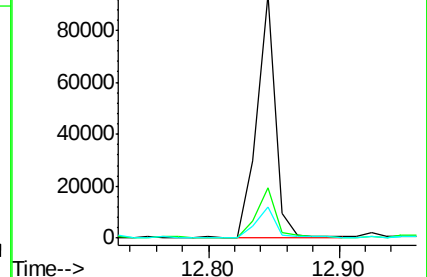
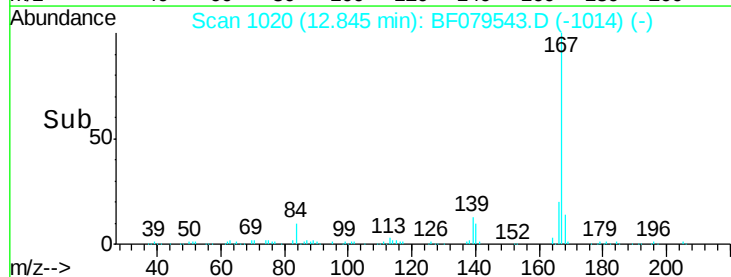
139 12.7 11.2 16.8

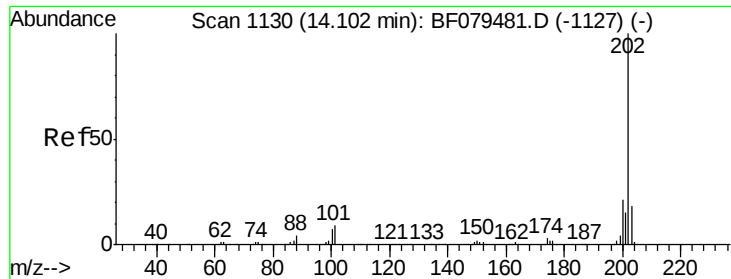


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 52.94 ng

RT: 14.03 min Scan# 1124

Delta R.T. -0.07 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

Instrument :

BNA_F

ClientSampled :

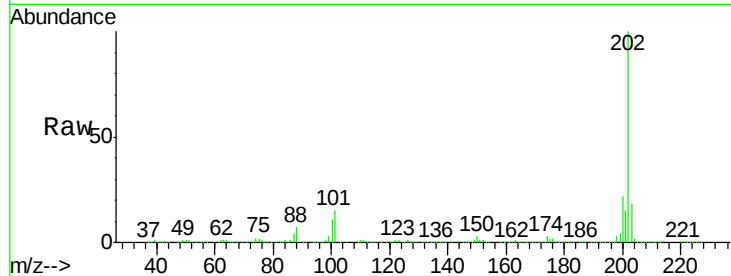
Tot Ion:202 Resp: 958325

Ion Ratio Lower Upper

202 100

101 14.8 0.0 29.3

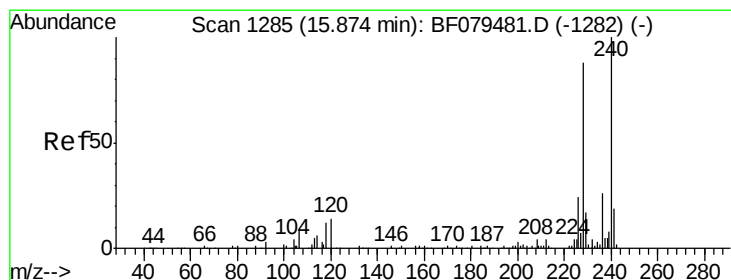
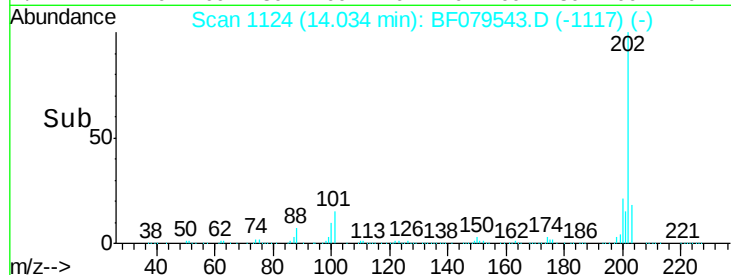
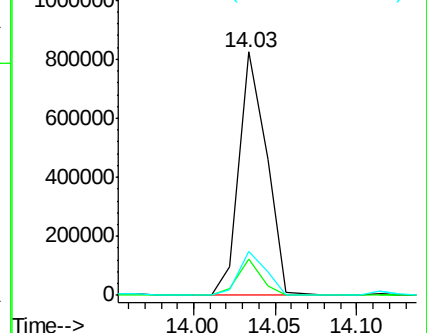
203 18.2 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.81 min Scan# 1279

Delta R.T. -0.07 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

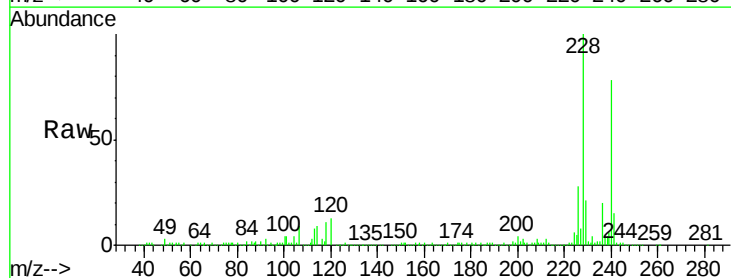
Tgt Ion:240 Resp: 289203

Ion Ratio Lower Upper

240 100

120 16.8 10.8 16.2#

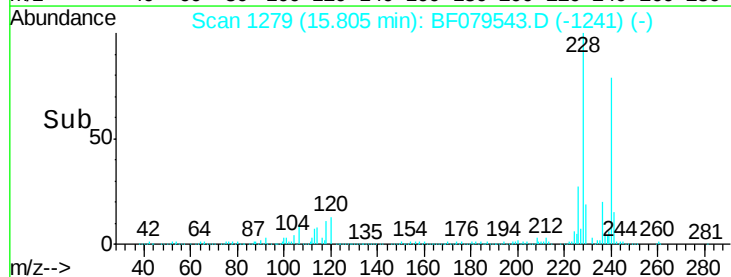
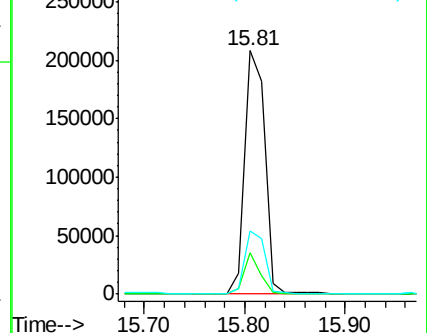
236 25.8 21.0 31.6

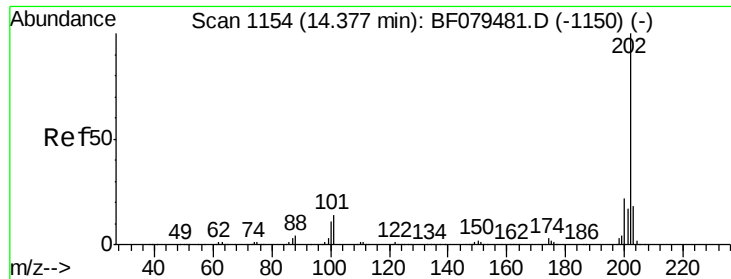


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 49.06 ng

RT: 14.31 min Scan# 1148

Delta R.T. -0.07 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

Instrument :

BNA_F

ClientSampleId :

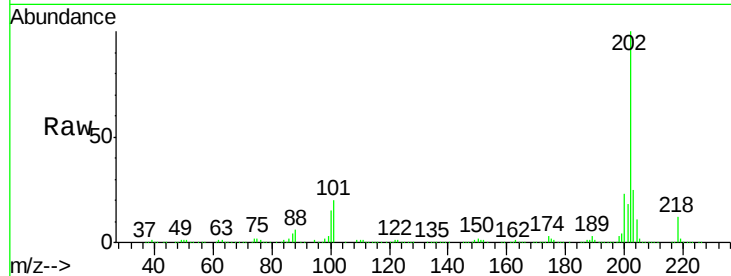
Tot Ion:202 Resp: 878952

Ion Ratio Lower Upper

202 100

200 22.6 17.5 26.3

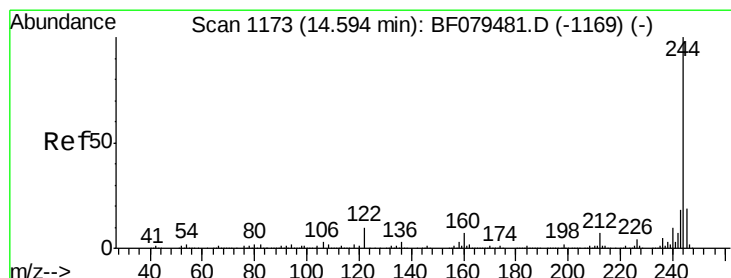
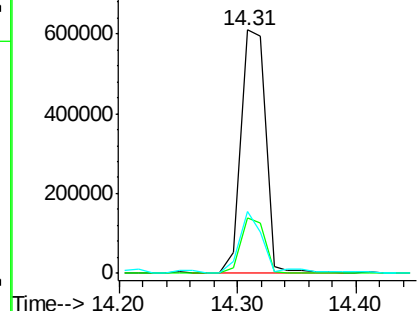
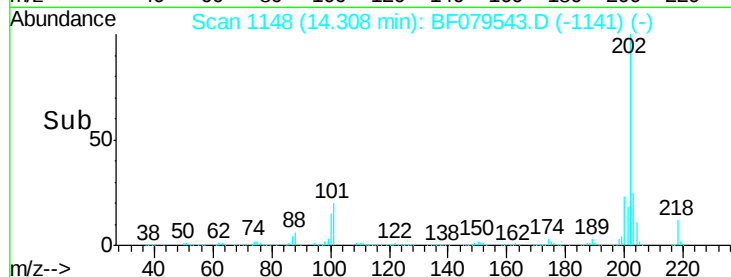
203 25.5 14.4 21.6#



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: 30.90 ng

RT: 14.53 min Scan# 1167

Delta R.T. -0.07 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

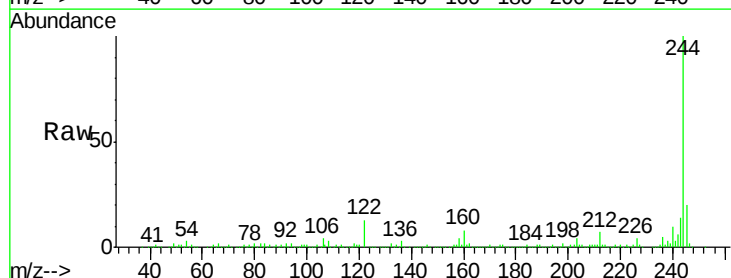
Tgt Ion:244 Resp: 380738

Ion Ratio Lower Upper

244 100

212 6.6 5.2 7.8

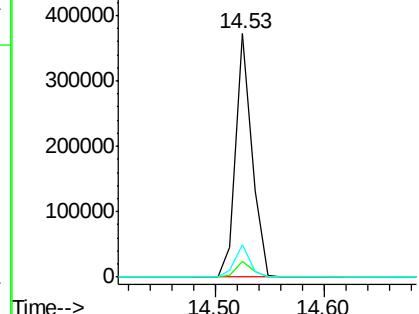
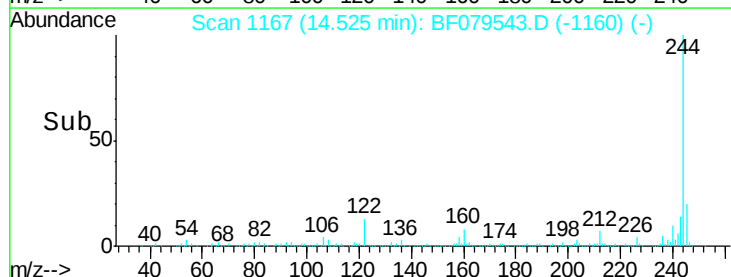
122 13.2 8.0 12.0#

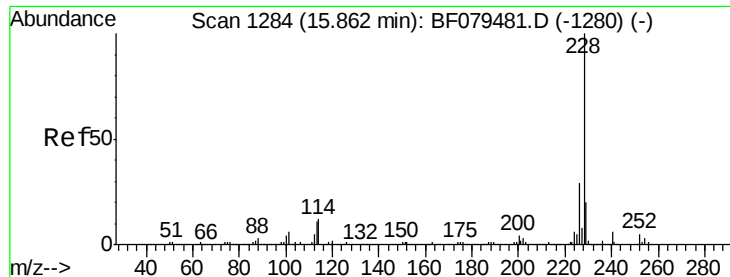


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 28.75 ng

RT: 15.79 min Scan# 1278

Delta R.T. -0.07 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

Instrument :

BNA_F

ClientSampleId :

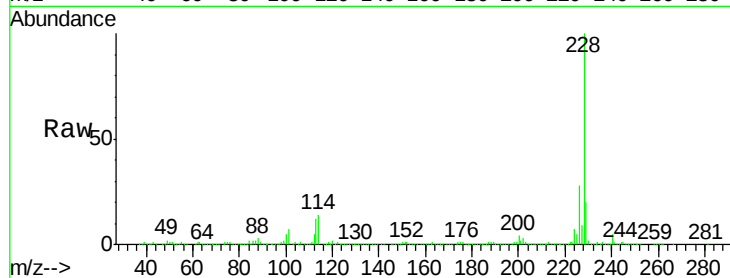
Tot Ion:228 Resp: 478372

Ion Ratio Lower Upper

228 100

226 28.2 22.8 34.2

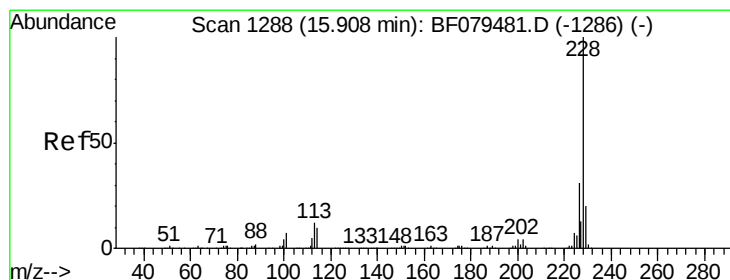
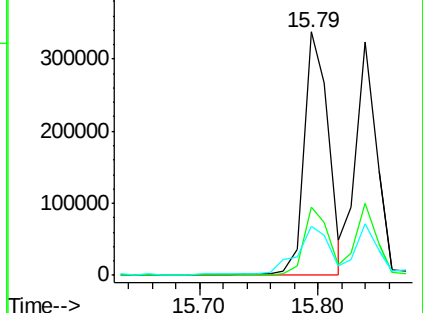
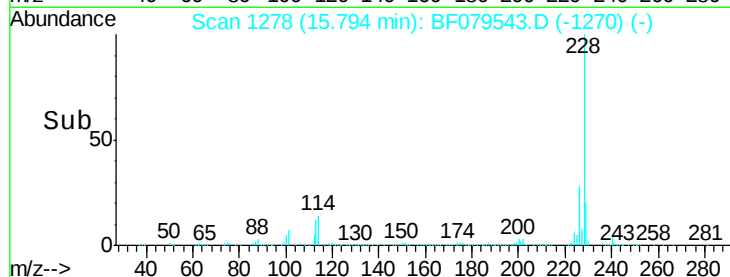
229 20.3 15.9 23.9



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: 24.82 ng

RT: 15.84 min Scan# 1282

Delta R.T. -0.07 min

Lab File: BF079543.D

Acq: 28 May 2015 14:38

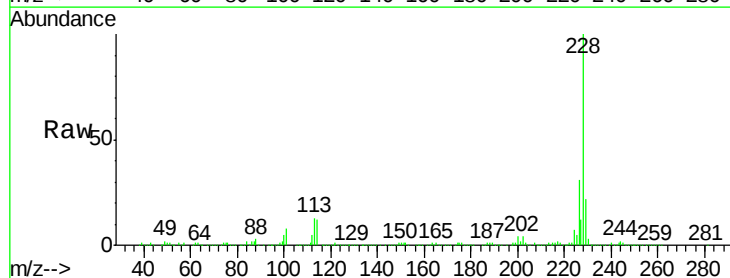
Tgt Ion:228 Resp: 392474

Ion Ratio Lower Upper

228 100

226 30.9 25.0 37.4

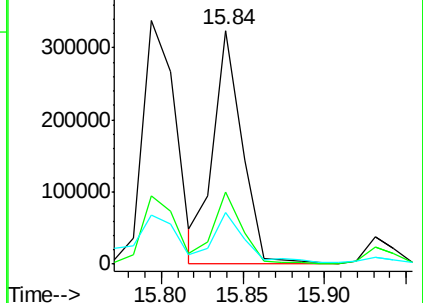
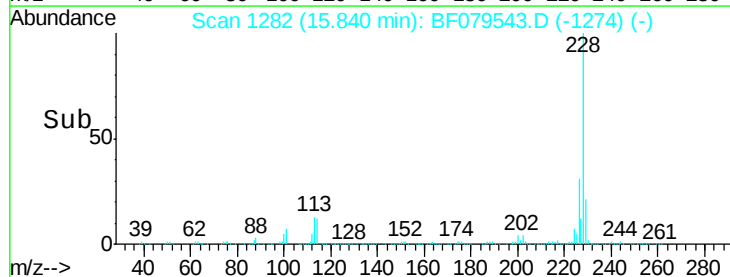
229 22.0 15.9 23.9

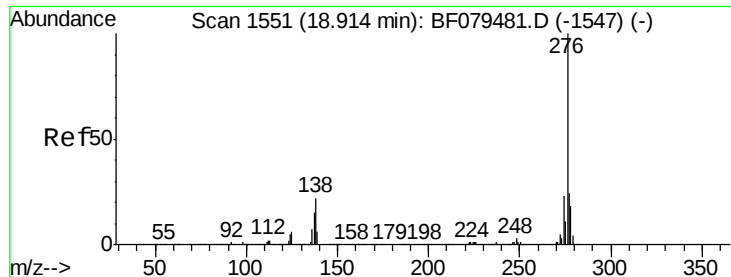


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

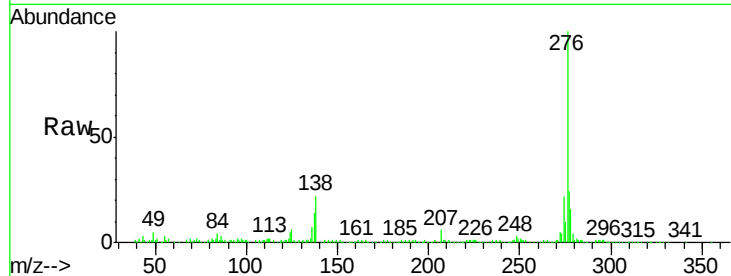




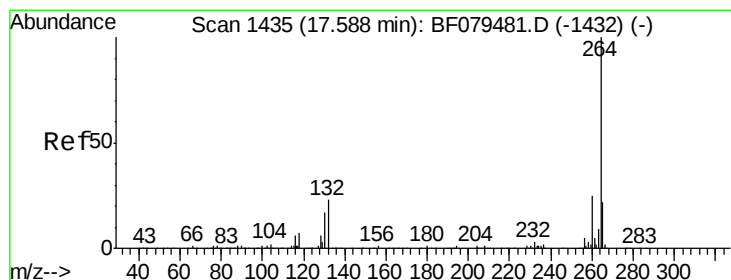
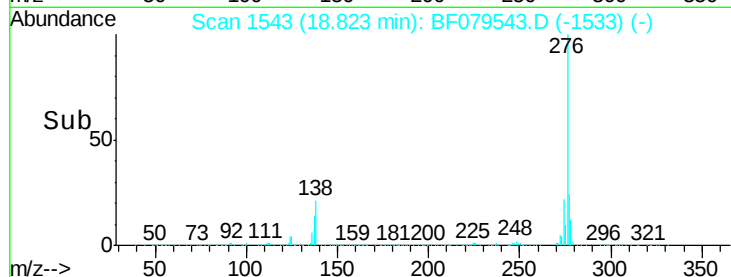
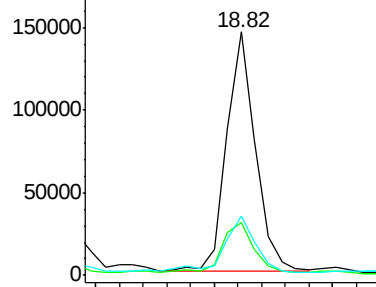
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.95 ng
 RT: 18.82 min Scan# 1543
 Delta R.T. -0.09 min
 Lab File: BF079543.D
 Acq: 28 May 2015 14:38

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276	Resp:	242996
Ion Ratio	Lower	Upper
276	100	
138	24.2	21.4 32.2
277	27.2	19.8 29.6

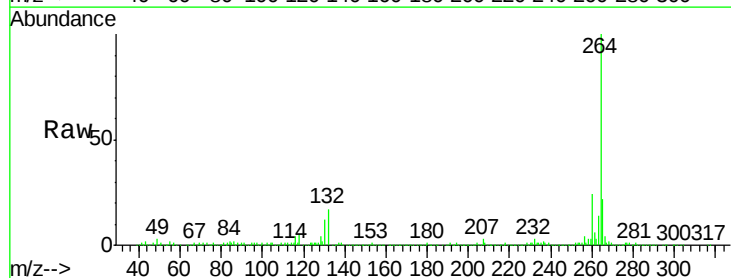


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

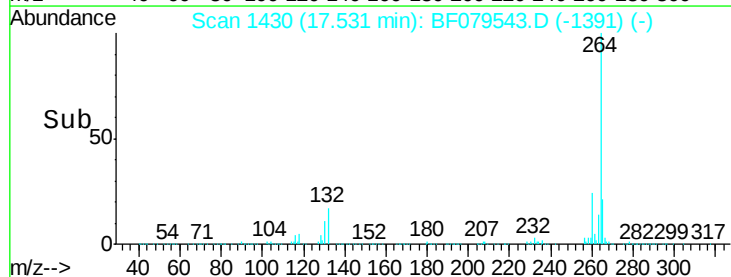
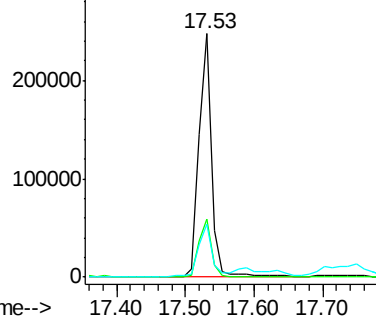


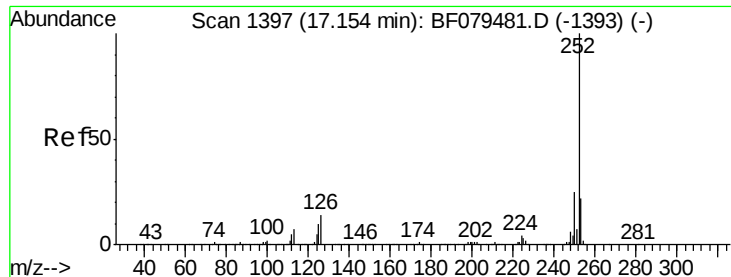
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.53 min Scan# 1430
 Delta R.T. -0.06 min
 Lab File: BF079543.D
 Acq: 28 May 2015 14:38

Tgt Ion:264	Resp:	320585
Ion Ratio	Lower	Upper
264	100	
260	24.0	19.8 29.8
265	21.8	17.8 26.6



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 36.64 ng

RT: 17.10 min Scan# 1392

Delta R.T. -0.06 min

Lab File: BF079543.D

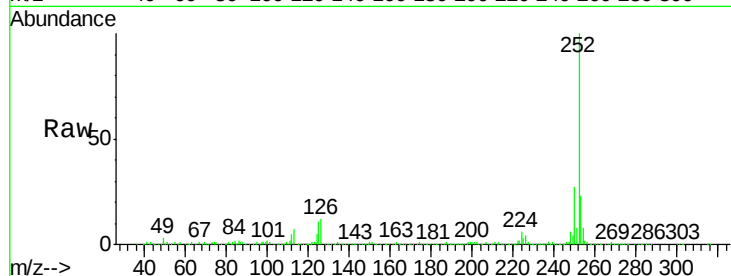
Acq: 28 May 2015 14:38

Instrument :

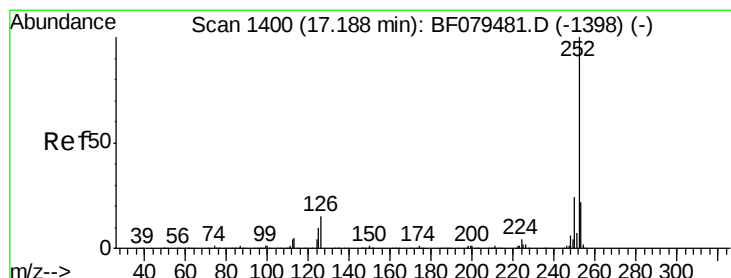
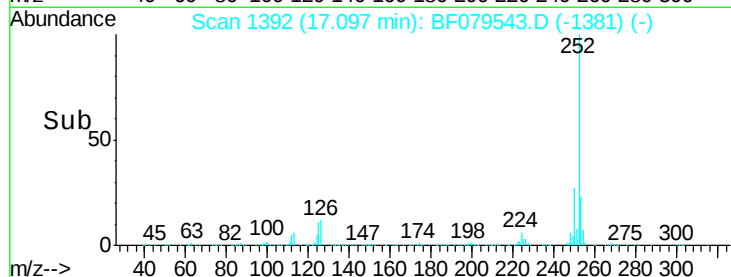
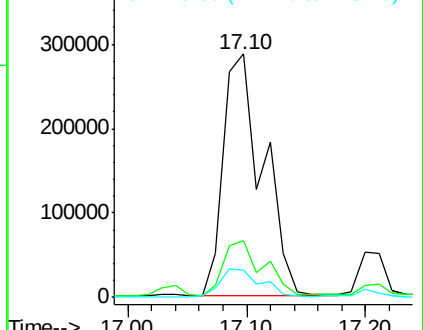
BNA_F

ClientSampleId :

Tot Ion:252	Resp:	669981
Ion Ratio	Lower	Upper
252	100	
253	23.4	17.6 26.4
125	11.3	7.8 11.6



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



#88

Benzo(k)fluoranthene

Concen: 40.98 ng

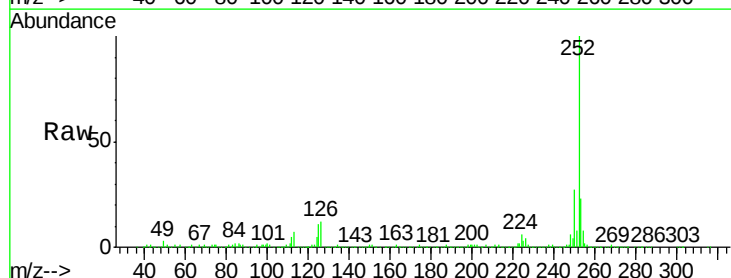
RT: 17.10 min Scan# 1392

Delta R.T. -0.09 min

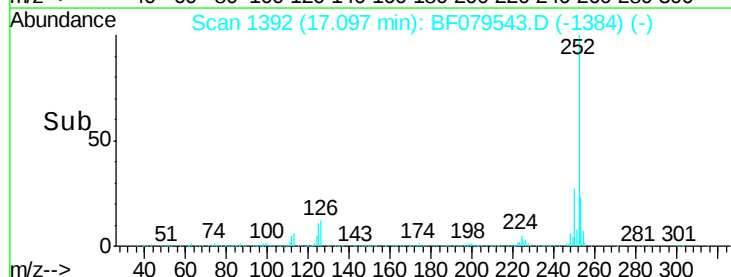
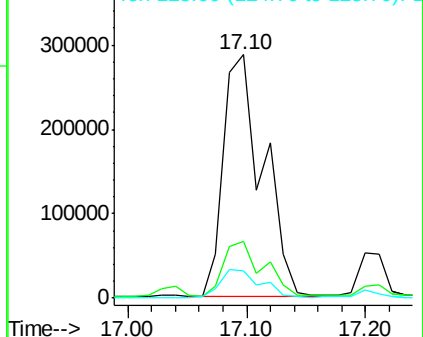
Lab File: BF079543.D

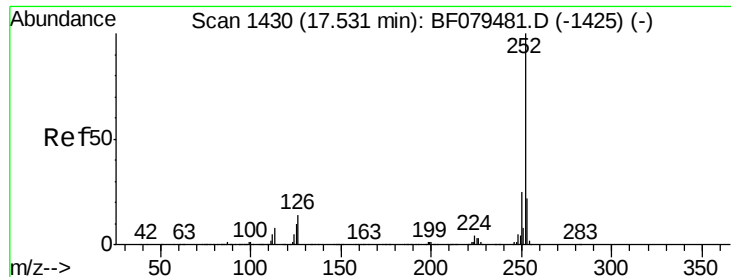
Acq: 28 May 2015 14:38

Tgt Ion:252	Resp:	669981
Ion Ratio	Lower	Upper
252	100	
253	23.4	17.2 25.8
125	11.3	6.8 10.2#



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

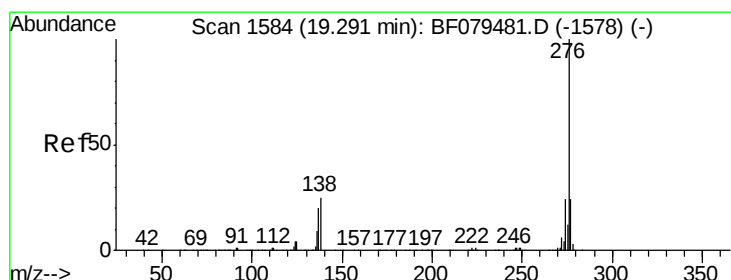
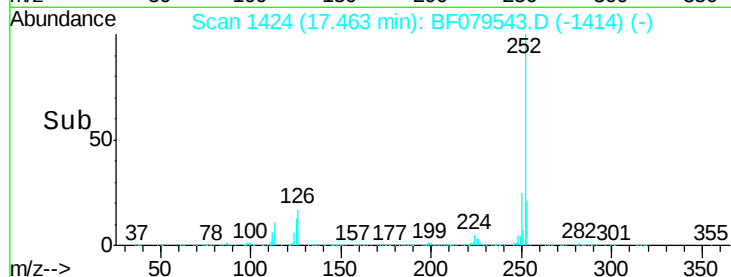
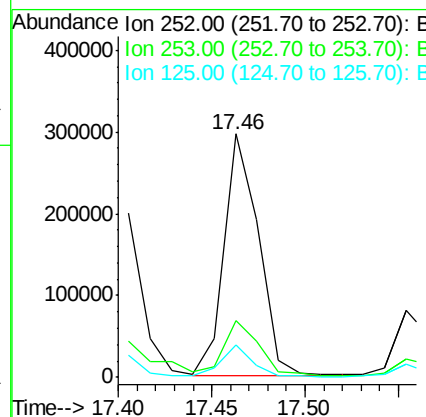
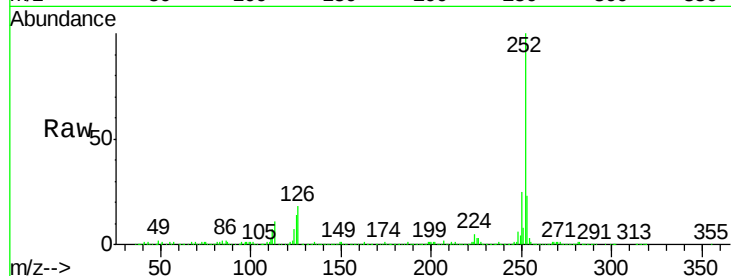




#89
Benzo(a)pyrene
Concen: 22.91 ng
RT: 17.46 min Scan# 1424
Delta R.T. -0.07 min
Lab File: BF079543.D
Acq: 28 May 2015 14:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.8	26.8
125	13.6	7.9	11.9



#91
Benzo(g,h,i)perylene
Concen: 12.30 ng
RT: 19.20 min Scan# 1576
Delta R.T. -0.09 min
Lab File: BF079543.D
Acq: 28 May 2015 14:38

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.1	28.7
138	20.8	20.1	30.1

