

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050615\
 Data File : BF078966.D
 Acq On : 6 May 2015 17:59
 Operator : TP/IZ
 Sample : G2114-13 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GRID-5(0-6)

Quant Time: May 07 01:10:19 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 07 00:45:56 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.35	152	77500	20.00	ng	0.00
21) Naphthalene-d8	8.92	136	320099	20.00	ng	0.00
38) Acenaphthene-d10	11.10	164	151401	20.00	ng	0.00
63) Phenanthrene-d10	12.95	188	301299	20.00	ng	0.00
75) Chrysene-d12	16.26	240	329213	20.00	ng	-0.05
86) Perylene-d12	18.08	264	358959	20.00	ng	-0.15

System Monitoring Compounds

5) 2-Fluorophenol	5.64	112	192289	42.71	ng	0.01
7) Phenol-d6	6.90	99	258344	43.41	ng	0.01
23) Nitrobenzene-d5	8.03	82	139042	24.96	ng	0.00
41) 2,4,6-Tribromophenol	12.08	330	68295	41.70	ng	0.00
44) 2-Fluorobiphenyl	10.27	172	277677	25.55	ng	0.00
78) Terphenyl-d14	14.95	244	341836	24.86	ng	0.00

Target Compounds

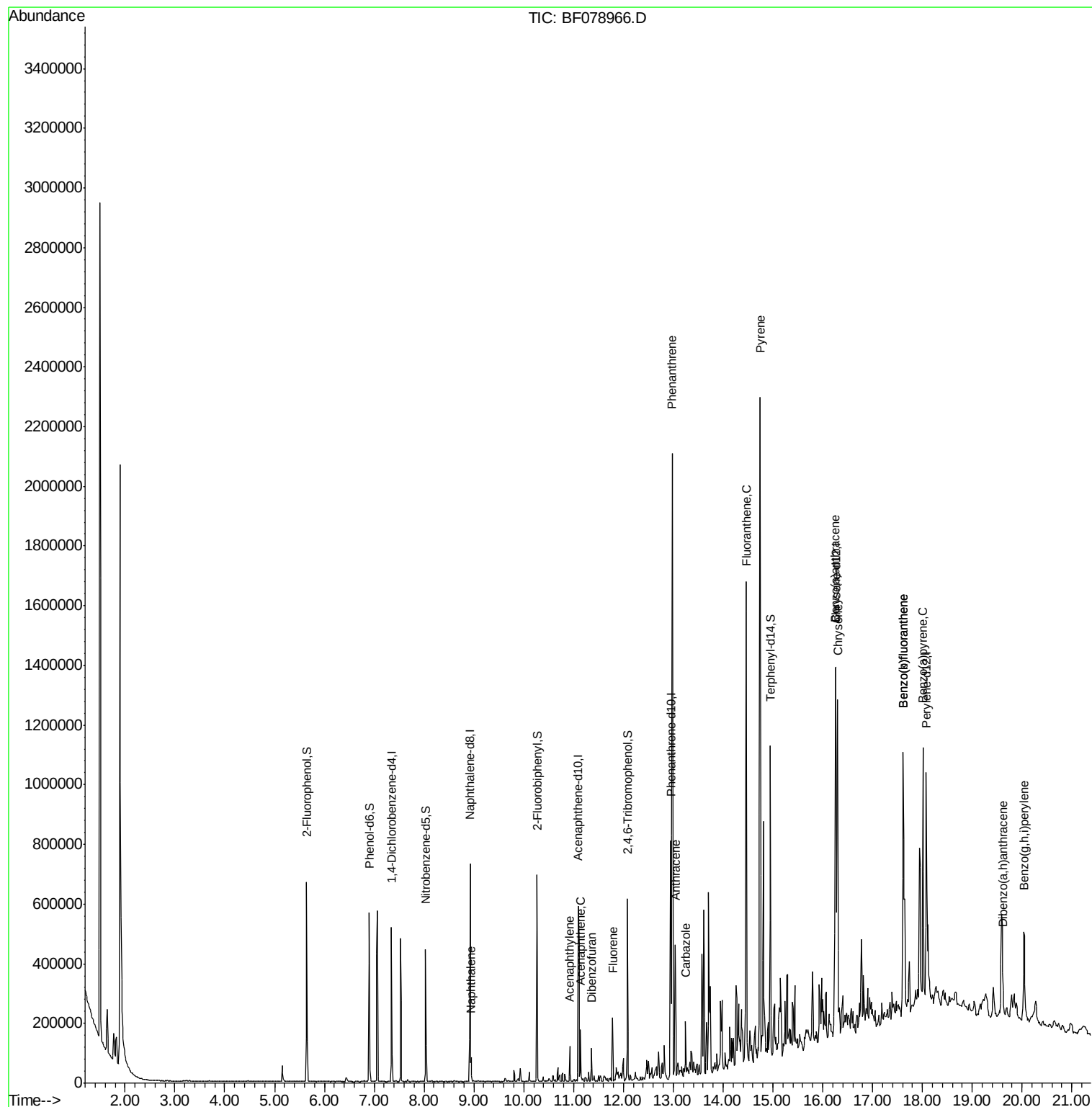
						Qvalue
31) Naphthalene	8.95	128	34463	2.26	ng	99
48) Acenaphthylene	10.92	152	46001	2.98	ng	97
51) Acenaphthene	11.14	154	37865	4.12	ng	99
54) Dibenzofuran	11.36	168	38800	2.92	ng	99
57) Fluorene	11.78	166	56353	5.17	ng	99
70) Phenanthrene	12.98	178	871267	51.69	ng	100
71) Anthracene	13.04	178	185615	11.22	ng	99
72) Carbazole	13.25	167	57358	3.64	ng	99
74) Fluoranthene	14.47	202	985820	56.13	ng	93
77) Pyrene	14.74	202	971779	51.23	ng	97
80) Benzo(a)anthracene	16.25	228	532429	29.53	ng	96
82) Chrysene	16.30	228	455108	26.25	ng	98
87) Benzo(b)fluoranthene	17.61	252	592730	30.17	ng	98
88) Benzo(k)fluoranthene	17.61	252	723509	38.04	ng	98
89) Benzo(a)pyrene	18.01	252	419375	23.18	ng	# 93
90) Dibenzo(a,h)anthracene	19.61	278	65003	3.38	ng	93
91) Benzo(g,h,i)perylene	20.05	276	263232	13.66	ng	98

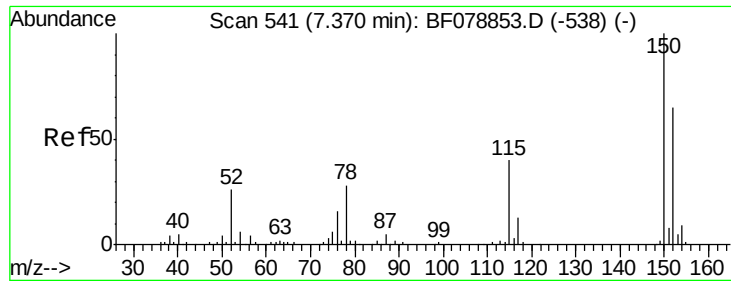
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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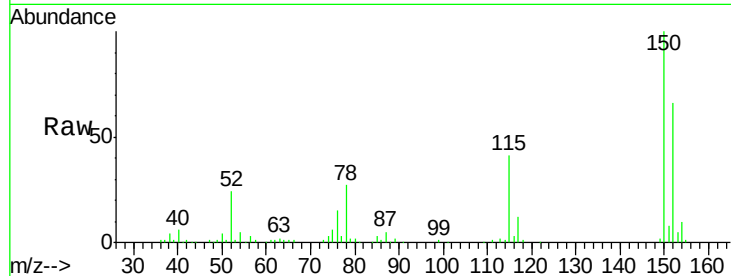


#1

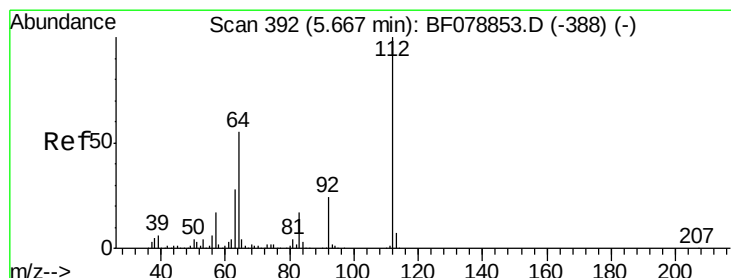
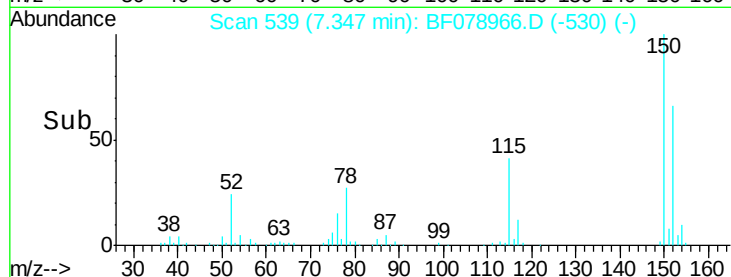
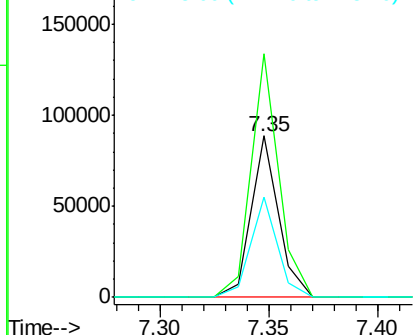
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.35 min Scan# 539
 Delta R.T. 0.00 min
 Lab File: BF078966.D
 Acq: 6 May 2015 17:59

Instrument :
 BNA_F
 ClientSampleId :
 GRID-5(0-6)

Tgt Ion:152 Resp: 77500
 Ion Ratio Lower Upper
 152 100
 150 150.8 122.0 183.0
 115 61.8 46.3 69.5



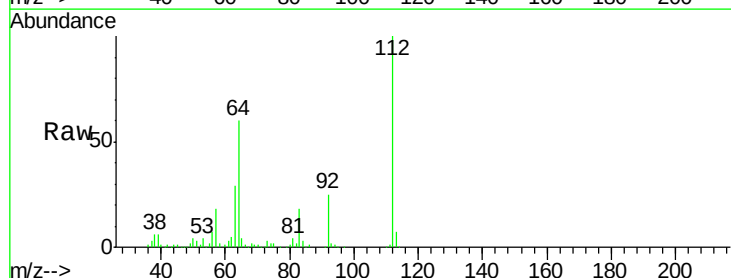
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



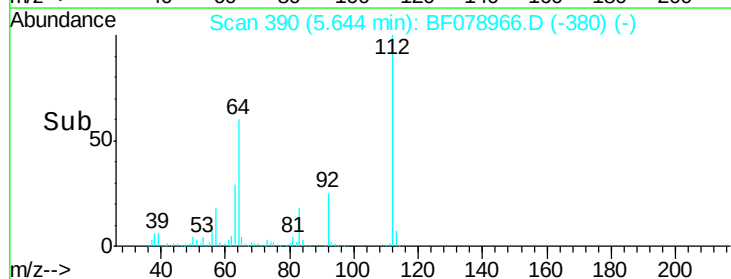
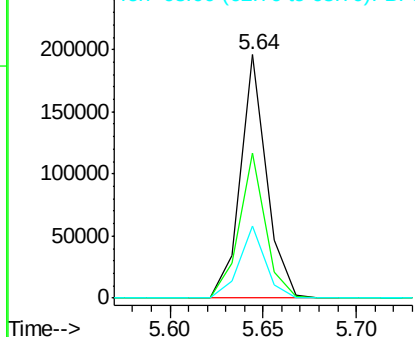
#5

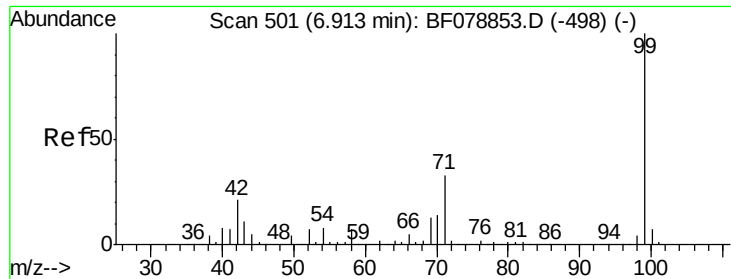
2-Fluorophenol
 Concen: 42.71 ng
 RT: 5.64 min Scan# 390
 Delta R.T. 0.01 min
 Lab File: BF078966.D
 Acq: 6 May 2015 17:59

Tgt Ion:112 Resp: 192289
 Ion Ratio Lower Upper
 112 100
 64 59.7 53.5 80.3
 63 29.4 27.5 41.3



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 43.41 ng

RT: 6.90 min Scan# 500

Delta R.T. 0.01 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

Instrument :

BNA_F

ClientSampleId :

GRID-5(0-6)

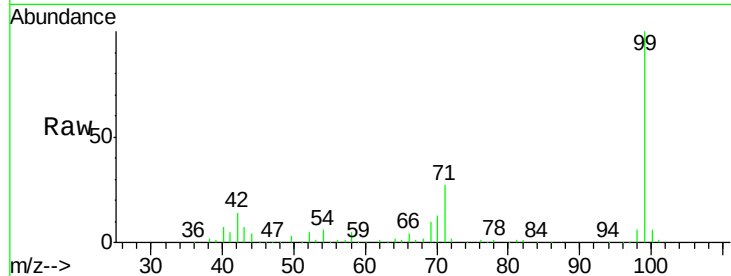
Tgt Ion: 99 Resp: 258344

Ion Ratio Lower Upper

99 100

42 14.4 12.8 19.2

71 26.7 23.4 35.2

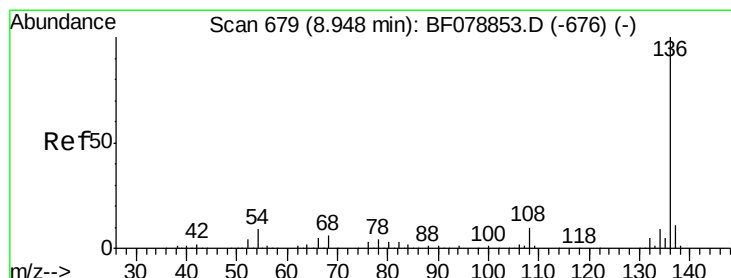
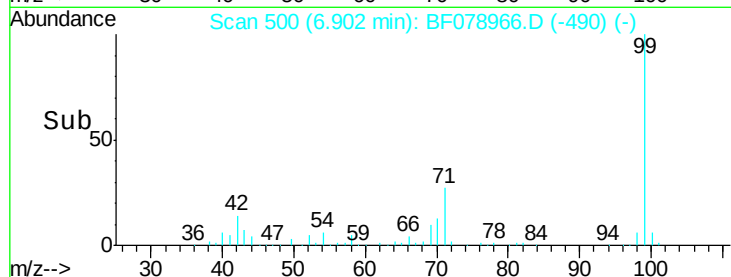
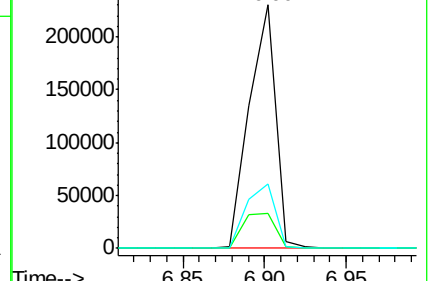


Abundance Ion 99.00 (98.70 to 99.70): BF078853.D (-498) (-)

Ion 42.00 (41.70 to 42.70): BF078853.D (-498) (-)

Ion 71.00 (70.70 to 71.70): BF078853.D (-498) (-)

6.90



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.92 min Scan# 677

Delta R.T. 0.00 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

Tgt Ion: 136 Resp: 320099

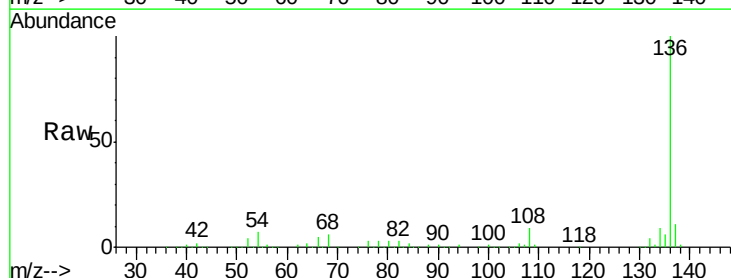
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 7.2 5.8 8.8

68 5.6 4.2 6.4



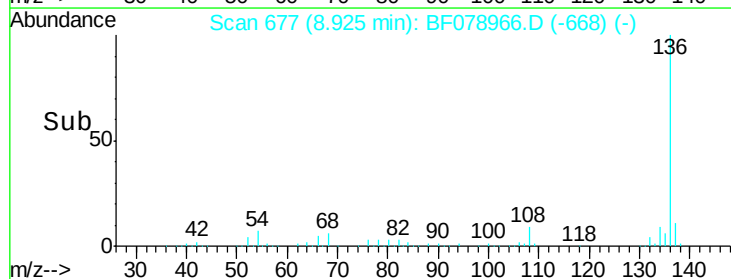
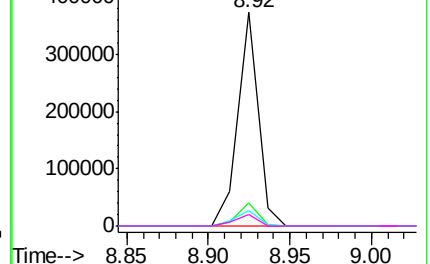
Abundance Ion 136.00 (135.70 to 136.70): BF078853.D (-676) (-)

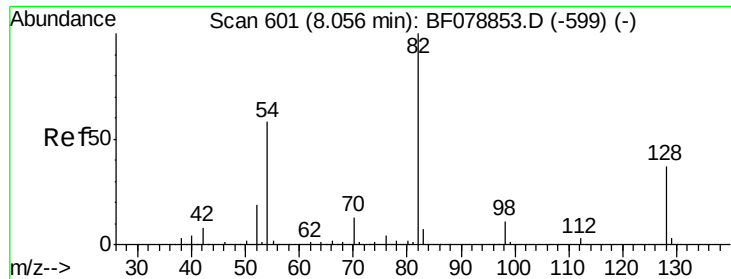
Ion 137.00 (136.70 to 137.70): BF078853.D (-676) (-)

Ion 54.00 (53.70 to 54.70): BF078853.D (-676) (-)

Ion 68.00 (67.70 to 68.70): BF078853.D (-676) (-)

8.92

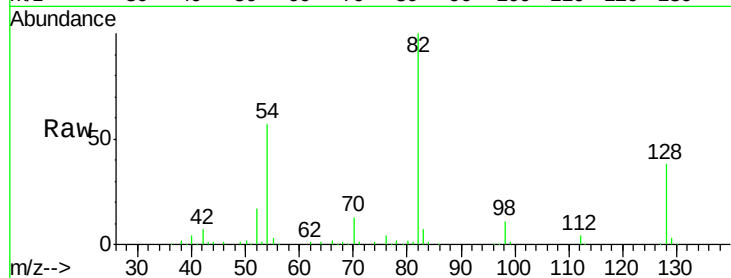




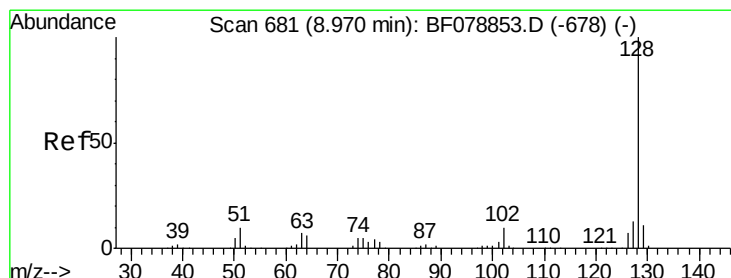
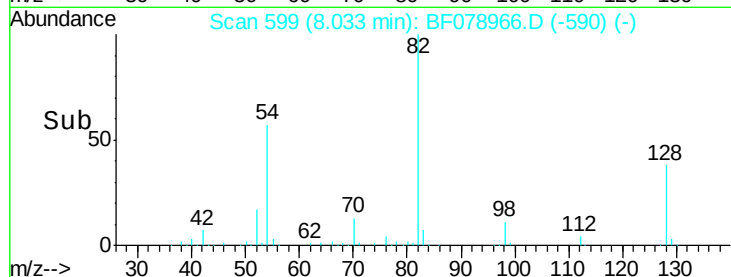
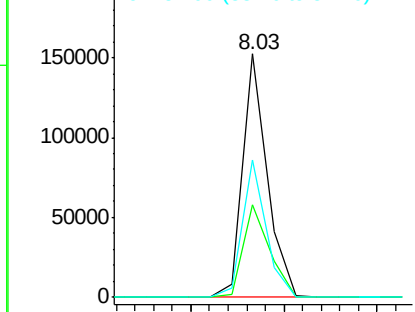
#23
 Nitrobenzene-d5
 Concen: 24.96 ng
 RT: 8.03 min Scan# 599
 Delta R.T. 0.00 min
 Lab File: BF078966.D
 Acq: 6 May 2015 17:59

Instrument :
 BNA_F
 ClientSampleId :
 GRID-5(0-6)

Tgt Ion: 82 Resp: 139042
 Ion Ratio Lower Upper
 82 100
 128 37.8 30.0 45.0
 54 56.5 46.4 69.6

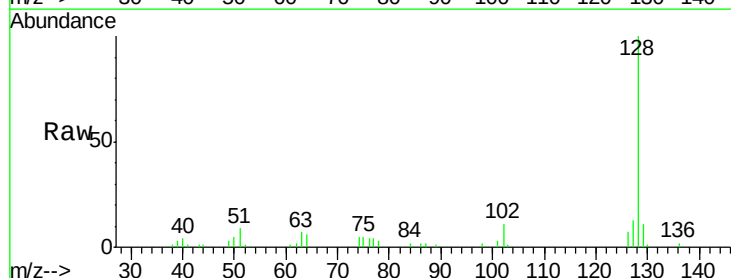


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

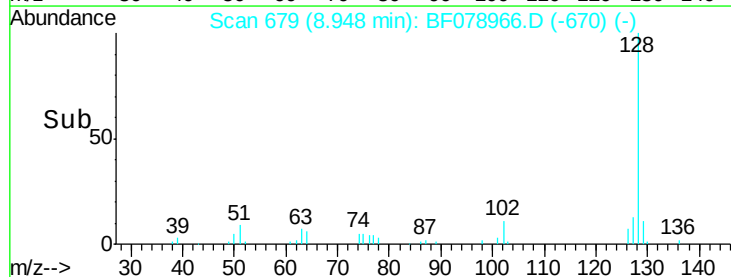
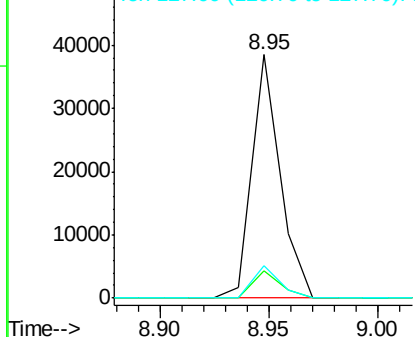


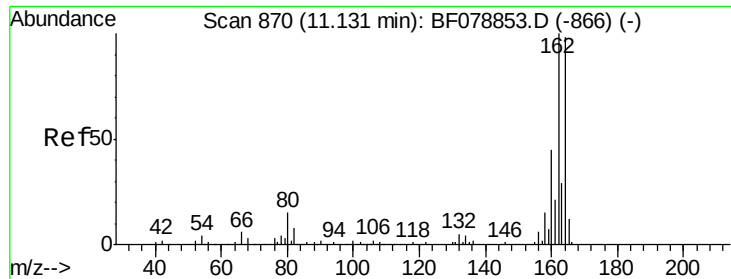
#31
 Naphthalene
 Concen: 2.26 ng
 RT: 8.95 min Scan# 679
 Delta R.T. 0.00 min
 Lab File: BF078966.D
 Acq: 6 May 2015 17:59

Tgt Ion: 128 Resp: 34463
 Ion Ratio Lower Upper
 128 100
 129 11.3 9.3 13.9
 127 13.1 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 11.10 min Scan# 867

Delta R.T. 0.00 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

Instrument :

BNA_F

ClientSampleId :

GRID-5(0-6)

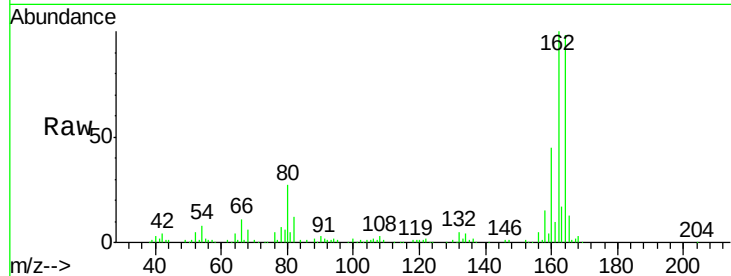
Tgt Ion:164 Resp: 151401

Ion Ratio Lower Upper

164 100

162 102.5 82.7 124.1

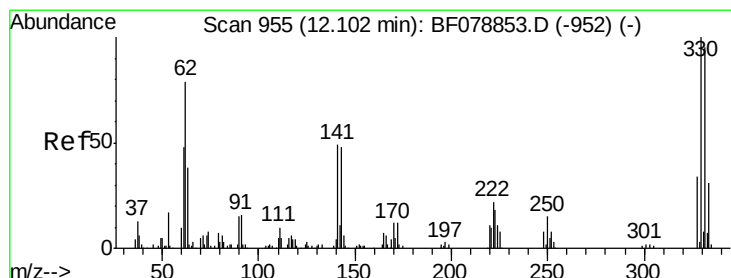
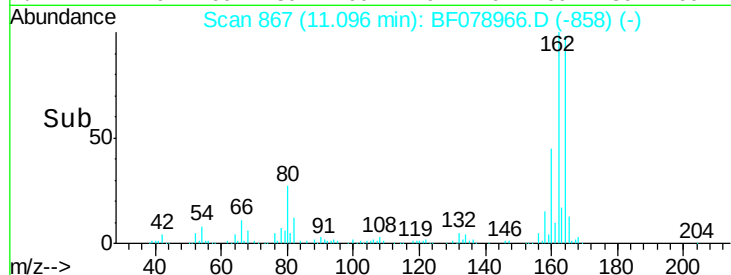
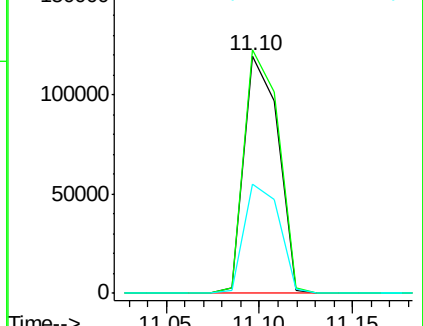
160 45.7 35.8 53.8



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 41.70 ng

RT: 12.08 min Scan# 953

Delta R.T. 0.00 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

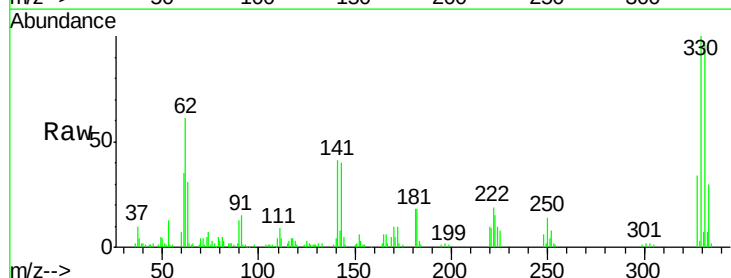
Tgt Ion:330 Resp: 68295

Ion Ratio Lower Upper

330 100

332 96.6 0.0 0.0#

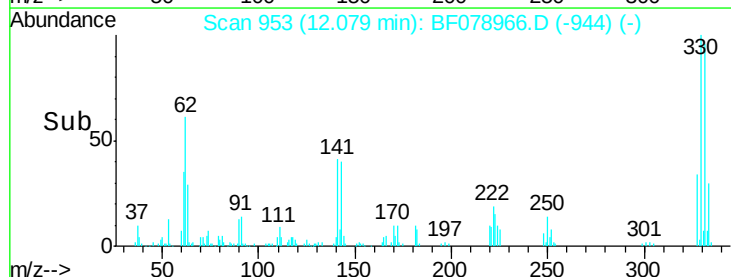
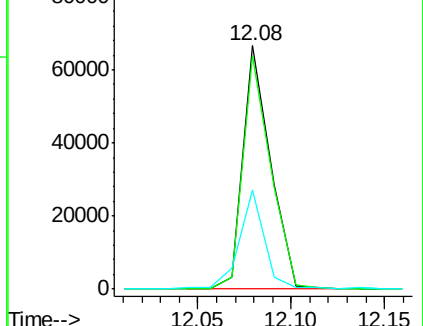
141 37.7 0.0 0.0#

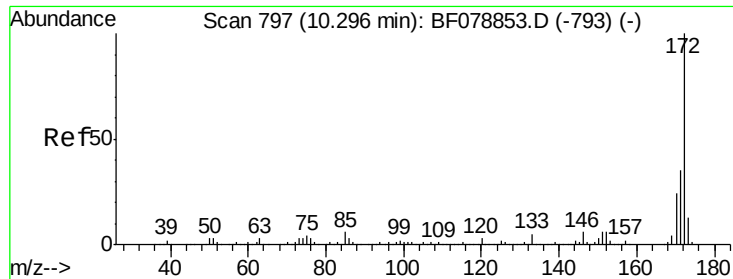


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

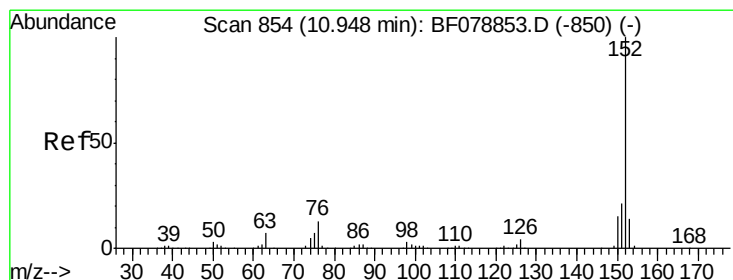
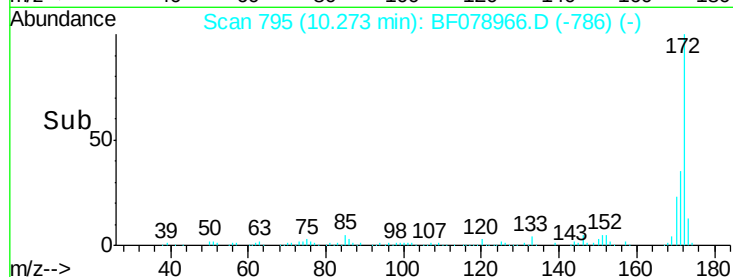
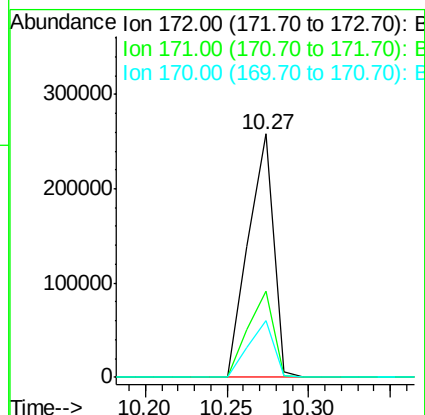
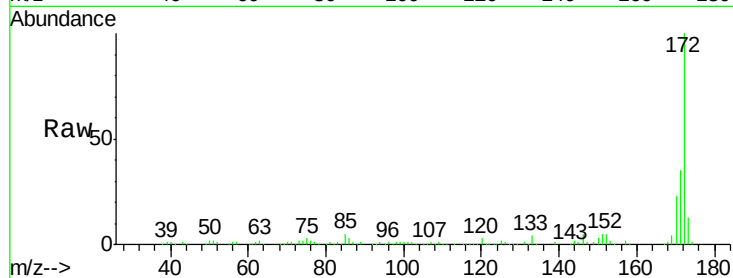




#44
 2-Fluorobiphenyl
 Concen: 25.55 ng
 RT: 10.27 min Scan# 795
 Delta R.T. 0.00 min
 Lab File: BF078966.D
 Acq: 6 May 2015 17:59

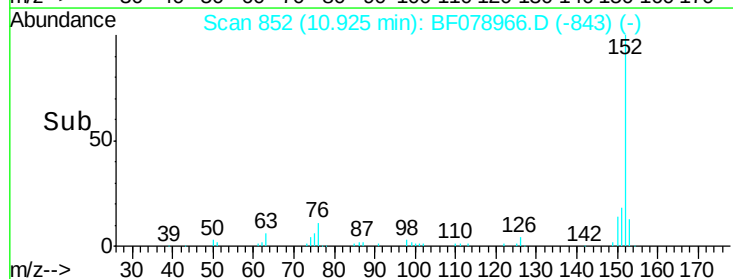
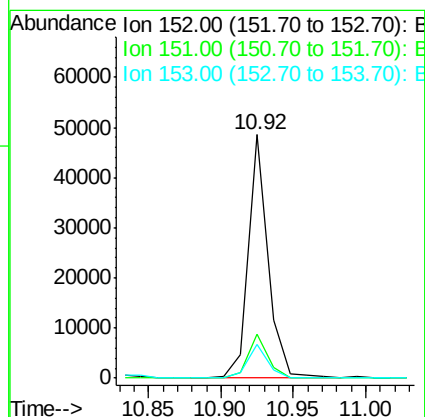
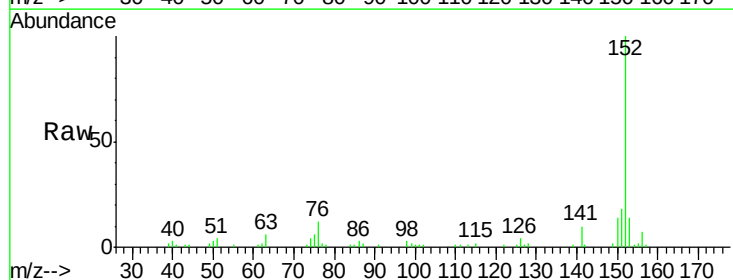
Instrument :
 BNA_F
 ClientSampleId :
 GRID-5(0-6)

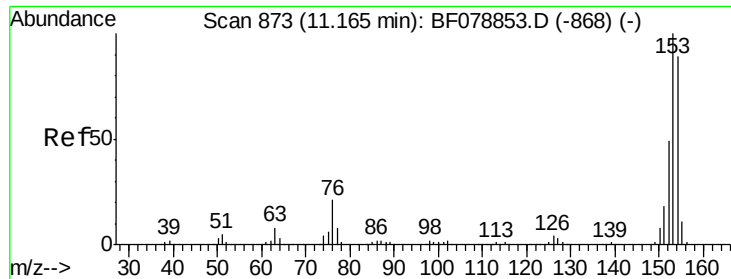
Tgt Ion:172 Resp: 277677
 Ion Ratio Lower Upper
 172 100
 171 35.4 27.9 41.9
 170 23.2 19.4 29.0



#48
 Acenaphthylene
 Concen: 2.98 ng
 RT: 10.92 min Scan# 852
 Delta R.T. 0.00 min
 Lab File: BF078966.D
 Acq: 6 May 2015 17:59

Tgt Ion:152 Resp: 46001
 Ion Ratio Lower Upper
 152 100
 151 18.0 16.2 24.4
 153 13.9 10.9 16.3





#51

Acenaphthene

Concen: 4.12 ng

RT: 11.14 min Scan# 871

Delta R.T. 0.00 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

Instrument :

BNA_F

ClientSampleId :

GRID-5(0-6)

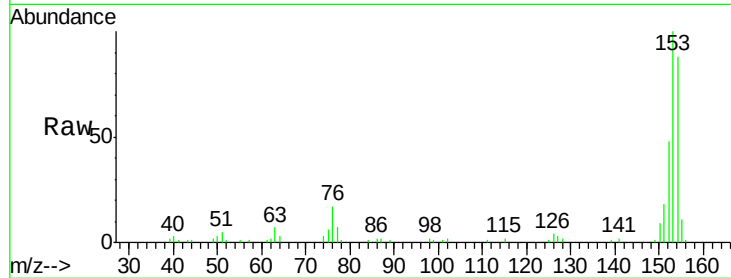
Tgt Ion:154 Resp: 37865

Ion Ratio Lower Upper

154 100

153 113.7 91.5 137.3

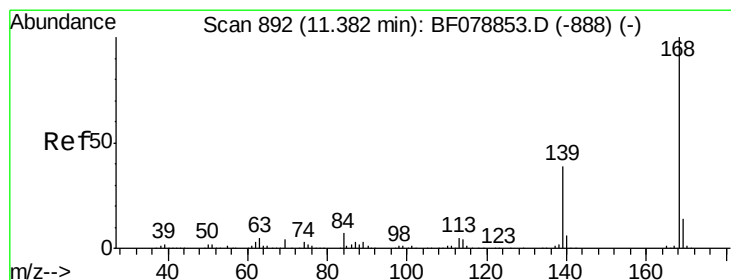
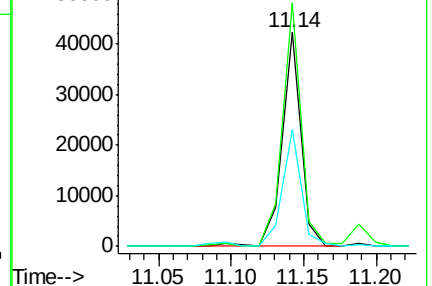
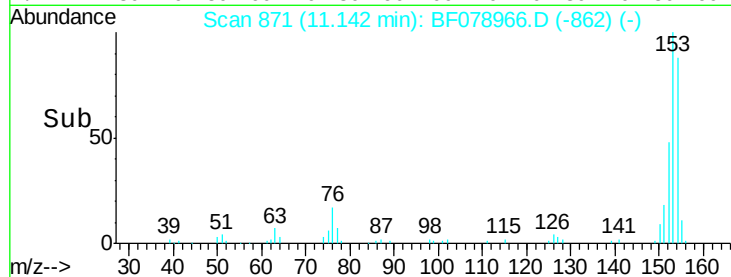
152 54.8 44.2 66.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.92 ng

RT: 11.36 min Scan# 890

Delta R.T. 0.00 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

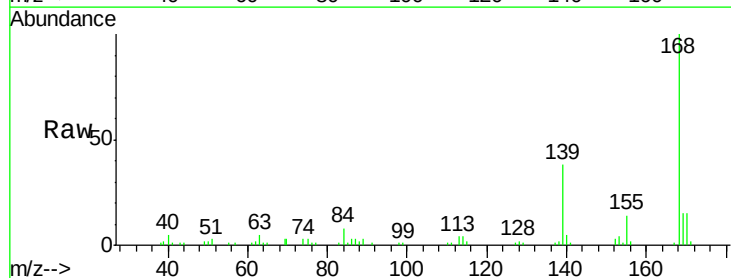
Tgt Ion:168 Resp: 38800

Ion Ratio Lower Upper

168 100

139 38.2 31.0 46.4

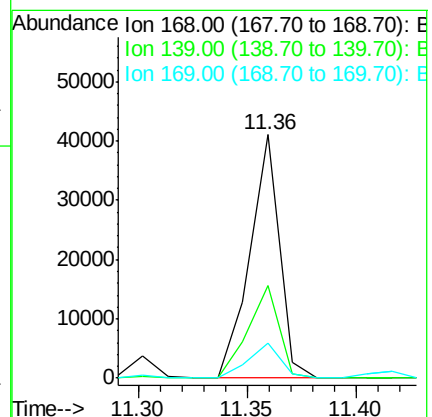
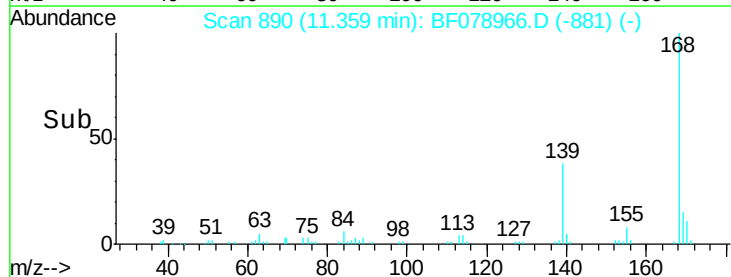
169 14.6 10.6 16.0

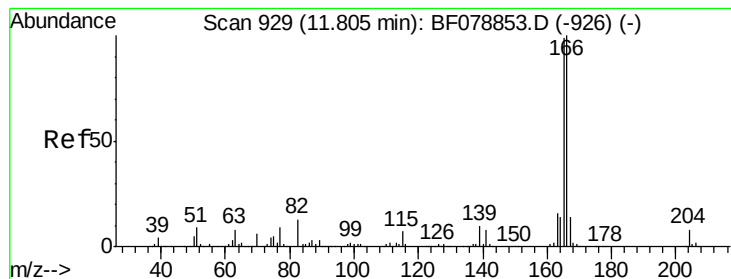


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 5.17 ng

RT: 11.78 min Scan# 927

Delta R.T. 0.00 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

Instrument :

BNA_F

ClientSampleId :

GRID-5(0-6)

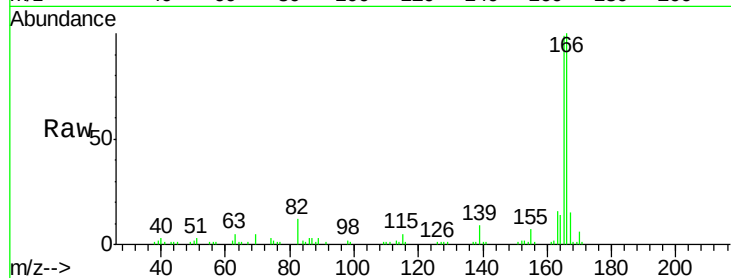
Tgt Ion:166 Resp: 56353

Ion Ratio Lower Upper

166 100

165 99.4 78.5 117.7

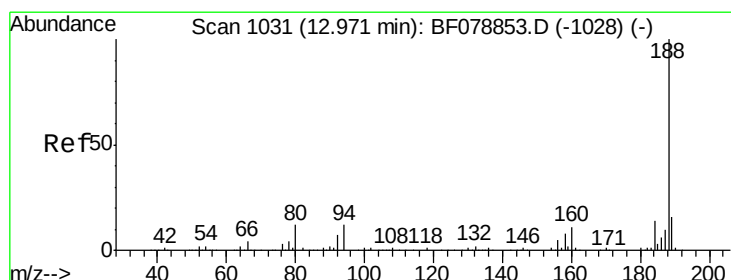
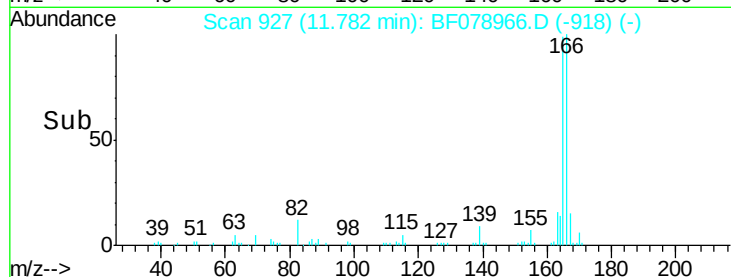
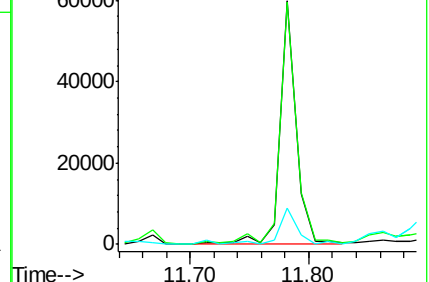
167 14.7 11.0 16.6



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: 12.95 min Scan# 1029

Delta R.T. 0.00 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

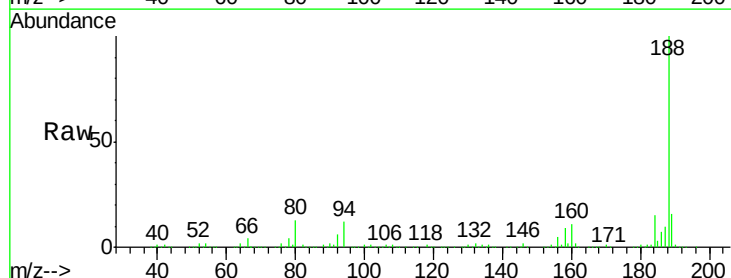
Tgt Ion:188 Resp: 301299

Ion Ratio Lower Upper

188 100

94 11.8 8.2 12.2

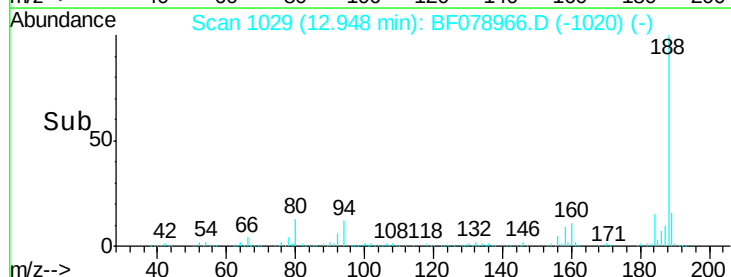
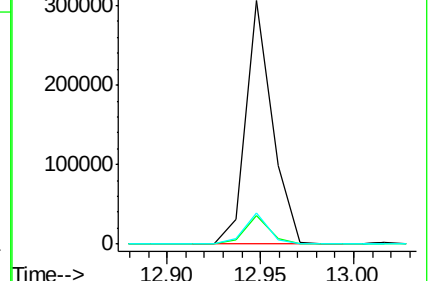
80 12.7 8.9 13.3

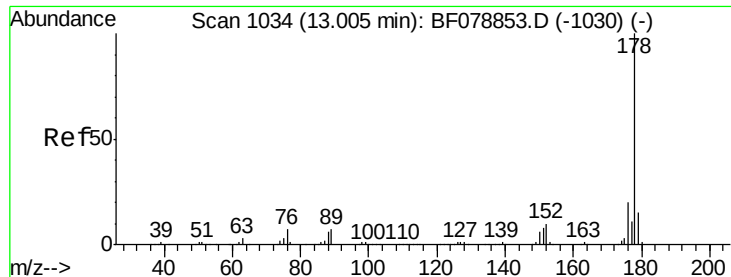


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

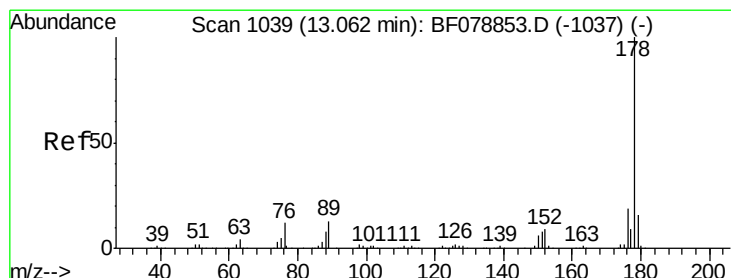
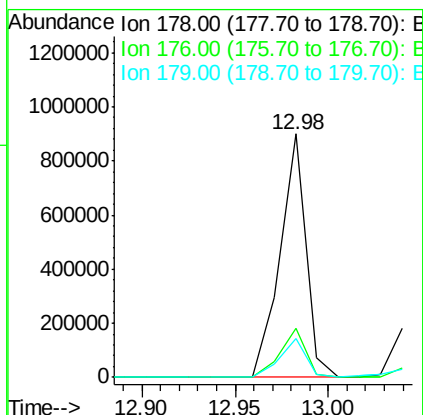
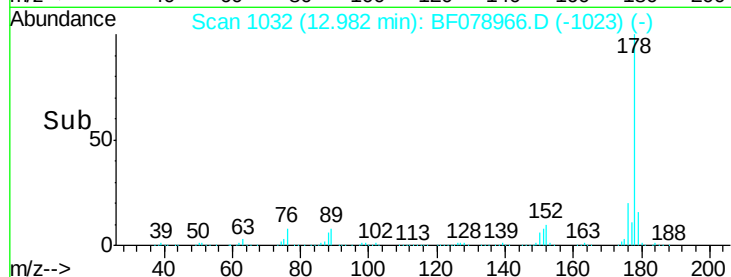
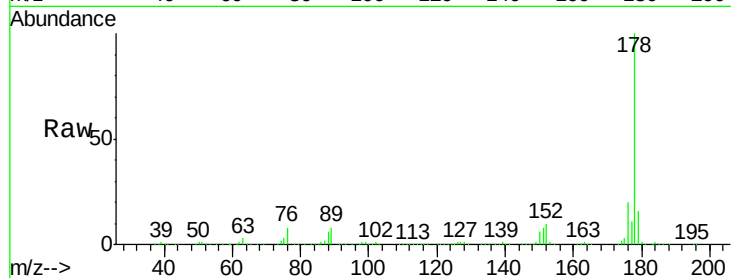




#70
Phenanthrene
Concen: 51.69 ng
RT: 12.98 min Scan# 1032
Delta R.T. 0.00 min
Lab File: BF078966.D
Acq: 6 May 2015 17:59

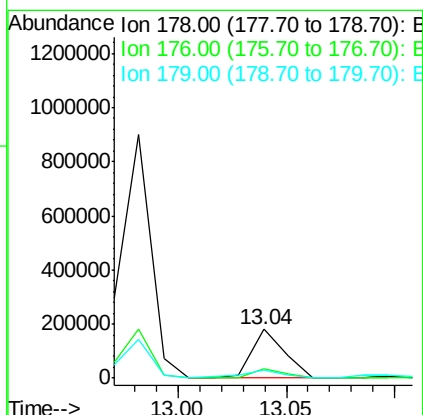
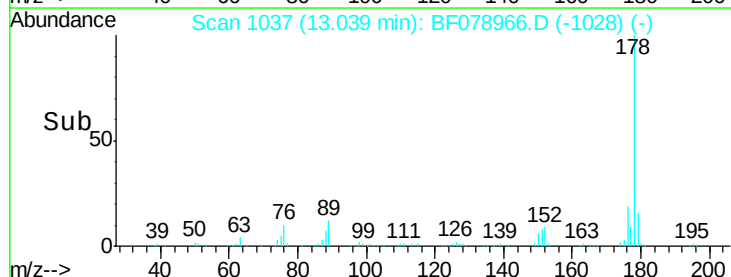
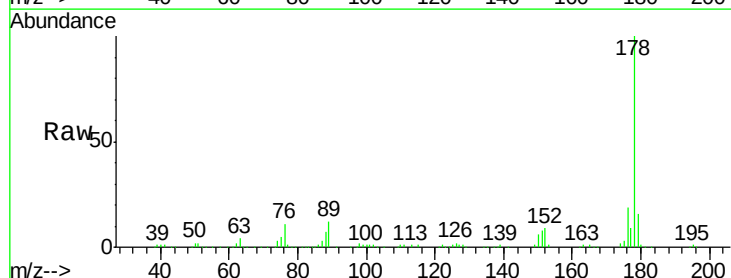
Instrument :
BNA_F
ClientSampleId :
GRID-5(0-6)

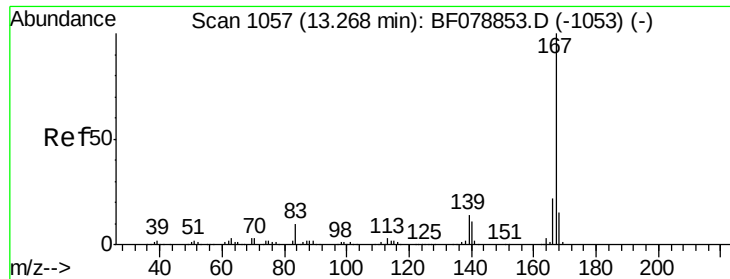
Tgt Ion:178 Resp: 871267
Ion Ratio Lower Upper
178 100
176 19.9 15.8 23.8
179 15.8 12.5 18.7



#71
Anthracene
Concen: 11.22 ng
RT: 13.04 min Scan# 1037
Delta R.T. 0.00 min
Lab File: BF078966.D
Acq: 6 May 2015 17:59

Tgt Ion:178 Resp: 185615
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 16.0 12.7 19.1

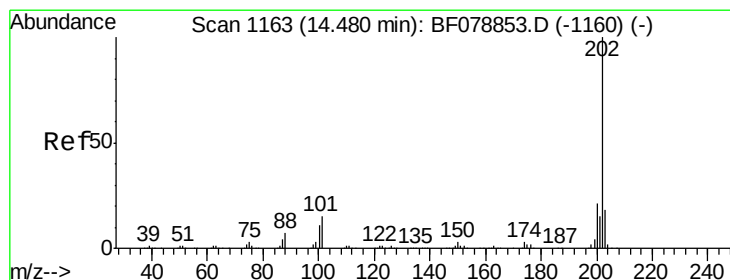
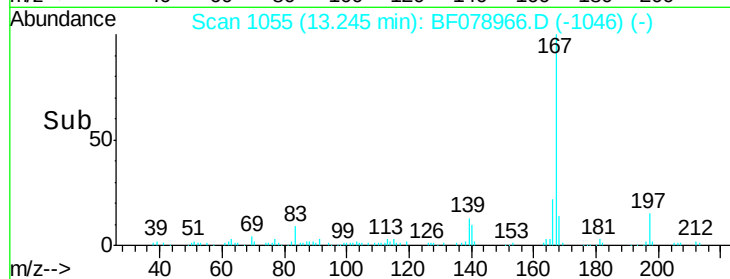
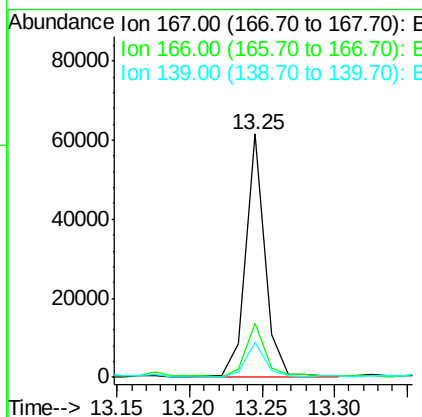
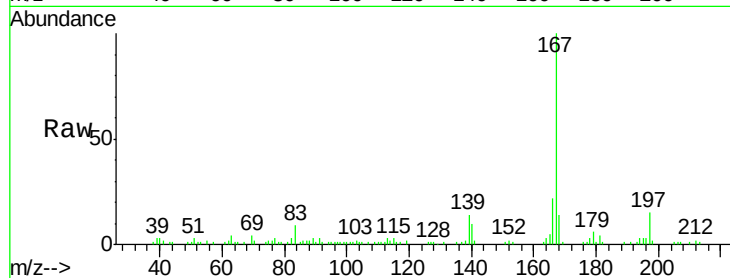




#72
 Carbazole
 Concen: 3.64 ng
 RT: 13.25 min Scan# 1055
 Delta R.T. 0.00 min
 Lab File: BF078966.D
 Acq: 6 May 2015 17:59

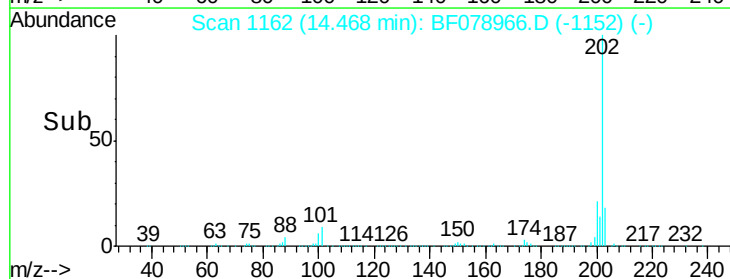
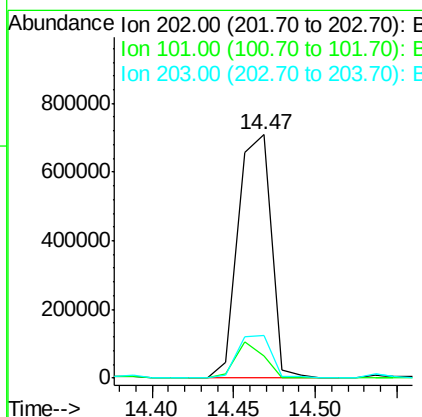
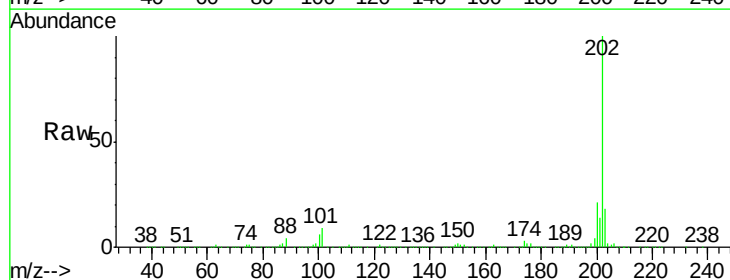
Instrument :
 BNA_F
 ClientSampleId :
 GRID-5(0-6)

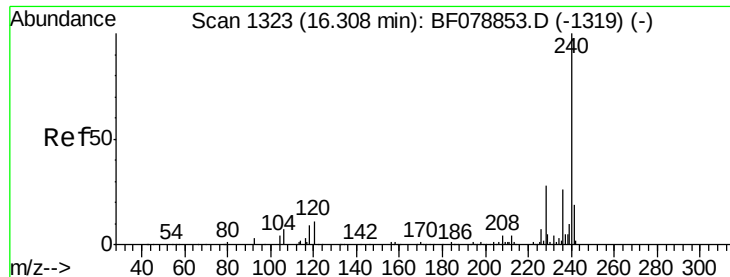
Tgt Ion:167 Resp: 57358
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.8 26.8
 139 14.4 10.6 16.0



#74
 Fluoranthene
 Concen: 56.13 ng
 RT: 14.47 min Scan# 1162
 Delta R.T. 0.01 min
 Lab File: BF078966.D
 Acq: 6 May 2015 17:59

Tgt Ion:202 Resp: 985820
 Ion Ratio Lower Upper
 202 100
 101 9.0 0.0 34.6
 203 17.7 0.0 38.4





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.26 min Scan# 1319

Delta R.T. -0.05 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

Instrument :

BNA_F

ClientSampleId :

GRID-5(0-6)

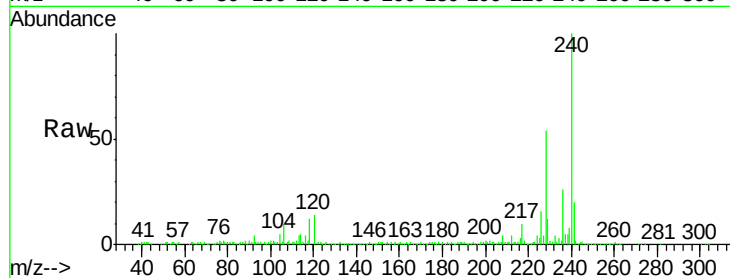
Tgt Ion:240 Resp: 329213

Ion Ratio Lower Upper

240 100

120 14.4 9.7 14.5

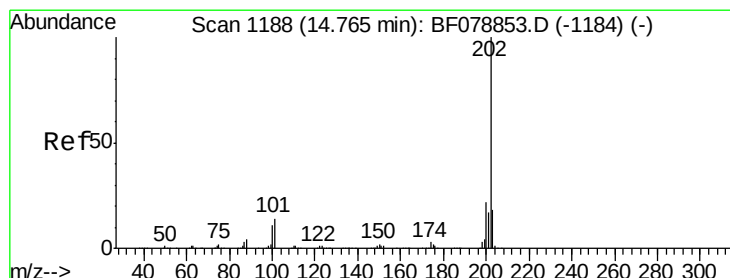
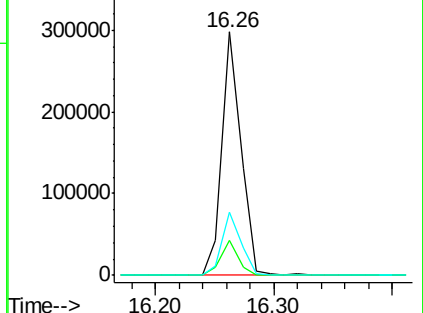
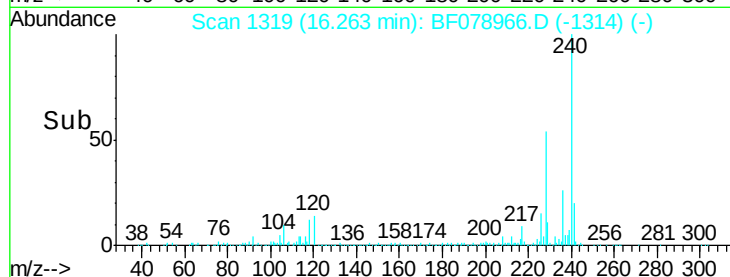
236 25.8 20.2 30.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 51.23 ng

RT: 14.74 min Scan# 1186

Delta R.T. 0.00 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

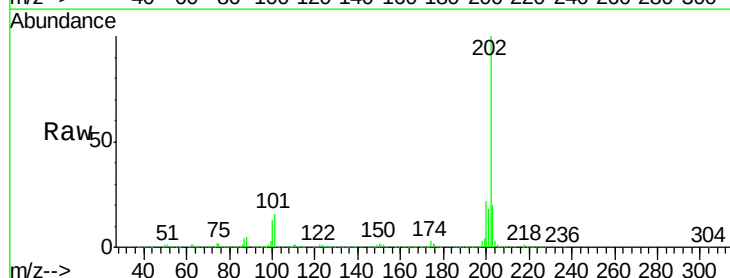
Tgt Ion:202 Resp: 971779

Ion Ratio Lower Upper

202 100

200 22.3 17.5 26.3

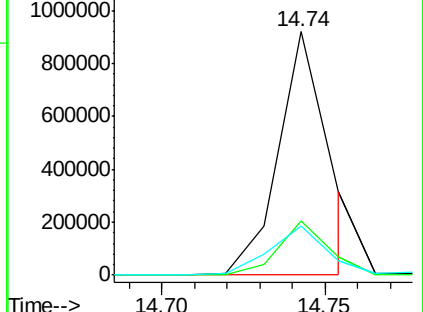
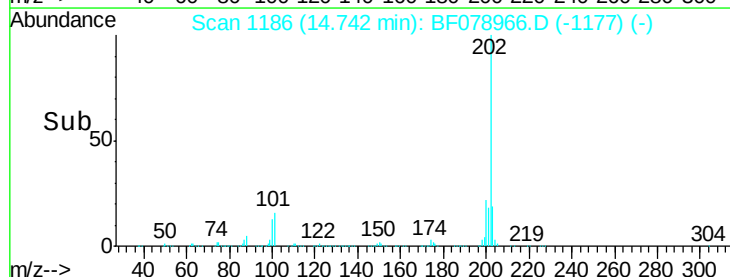
203 19.9 13.9 20.9

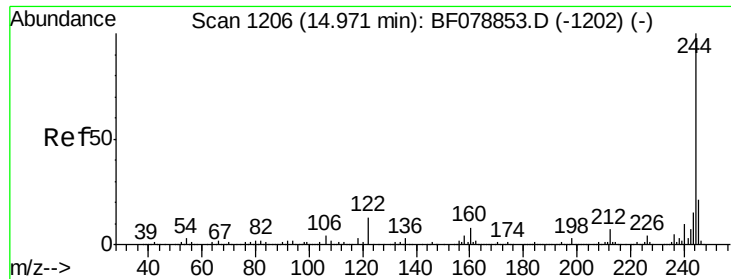


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

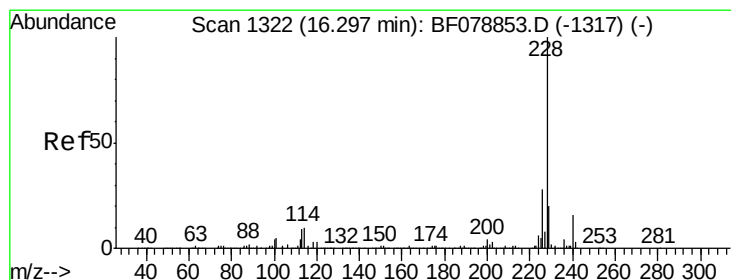
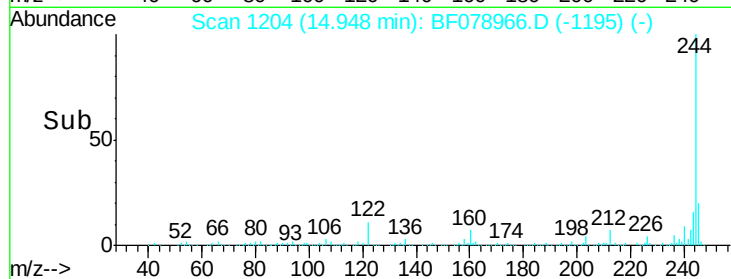
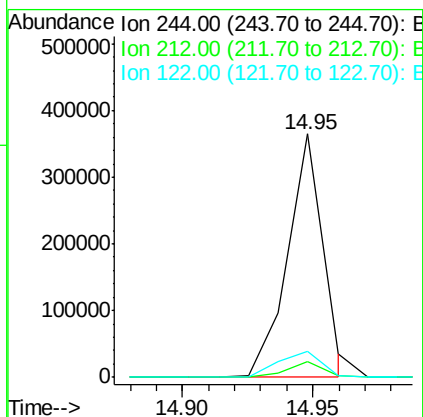
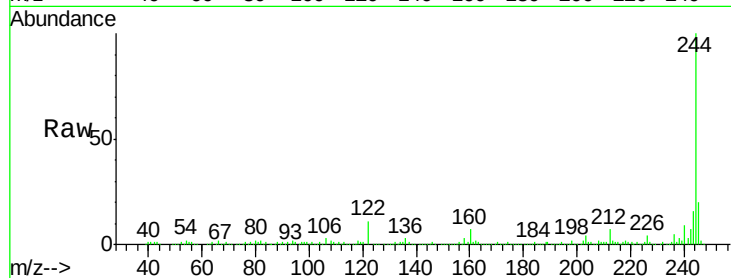




#78
 Terphenyl-d14
 Concen: 24.86 ng
 RT: 14.95 min Scan# 1204
 Delta R.T. 0.00 min
 Lab File: BF078966.D
 Acq: 6 May 2015 17:59

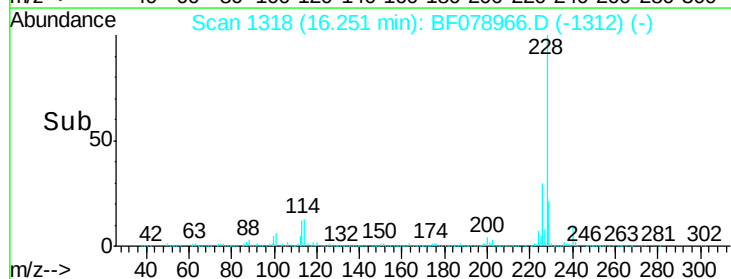
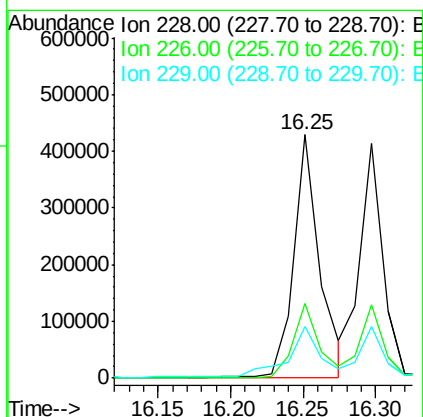
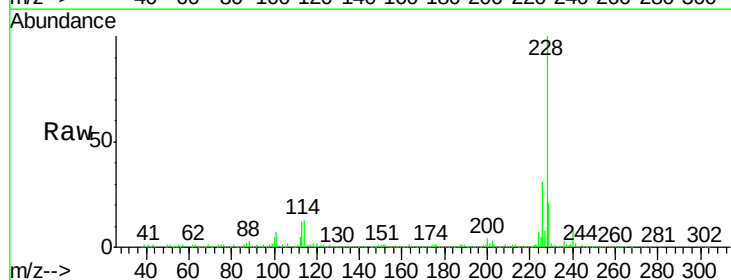
Instrument :
 BNA_F
 ClientSampleId :
 GRID-5(0-6)

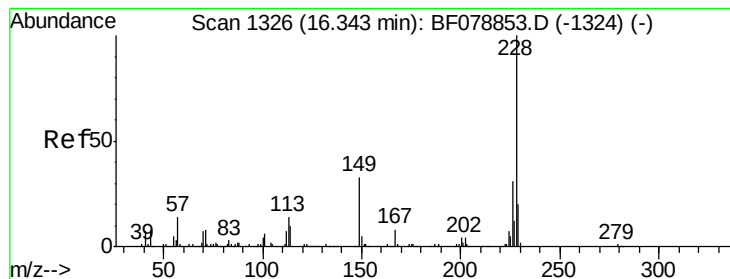
Tgt Ion: 244 Resp: 341836
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.6 8.4
 122 10.5 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 29.53 ng
 RT: 16.25 min Scan# 1318
 Delta R.T. -0.03 min
 Lab File: BF078966.D
 Acq: 6 May 2015 17:59

Tgt Ion: 228 Resp: 532429
 Ion Ratio Lower Upper
 228 100
 226 30.5 22.6 33.8
 229 21.2 15.9 23.9





#82

Chrysene

Concen: 26.25 ng

RT: 16.30 min Scan# 1322

Delta R.T. -0.05 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

Instrument :

BNA_F

ClientSampleId :

GRID-5(0-6)

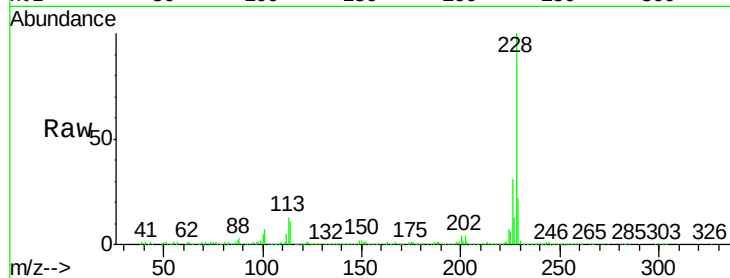
Tgt Ion:228 Resp: 455108

Ion Ratio Lower Upper

228 100

226 31.1 24.9 37.3

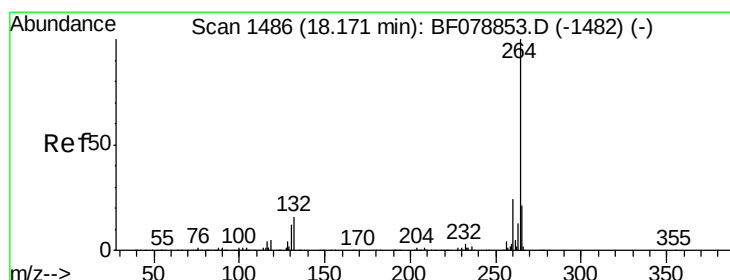
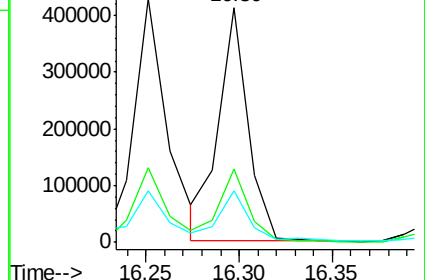
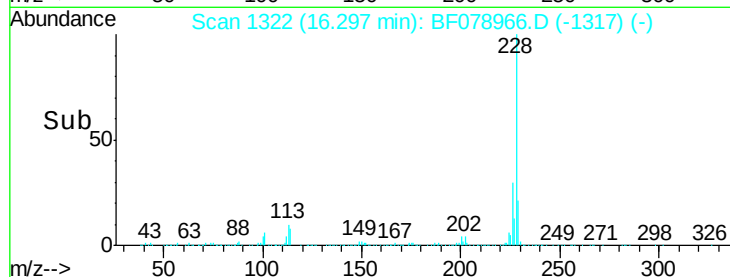
229 22.1 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 18.08 min Scan# 1478

Delta R.T. -0.15 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

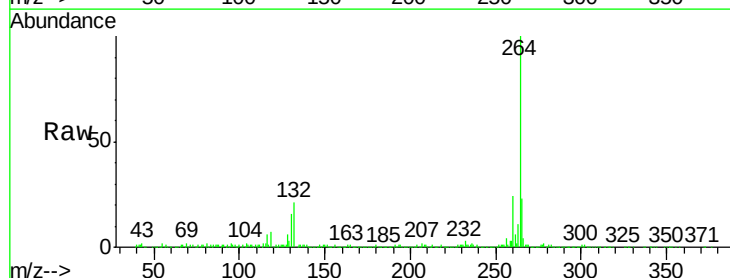
Tgt Ion:264 Resp: 358959

Ion Ratio Lower Upper

264 100

260 24.4 19.4 29.2

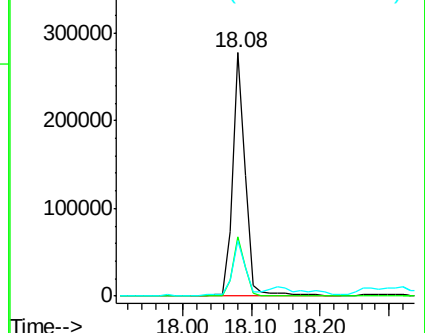
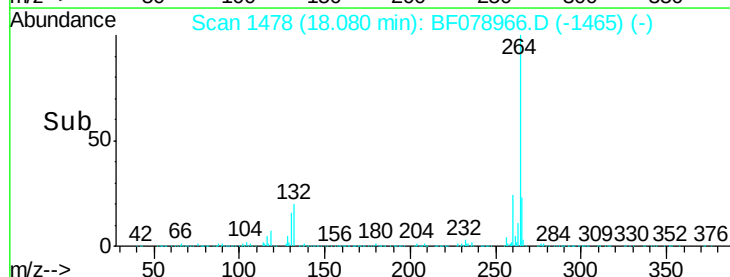
265 22.9 18.3 27.5

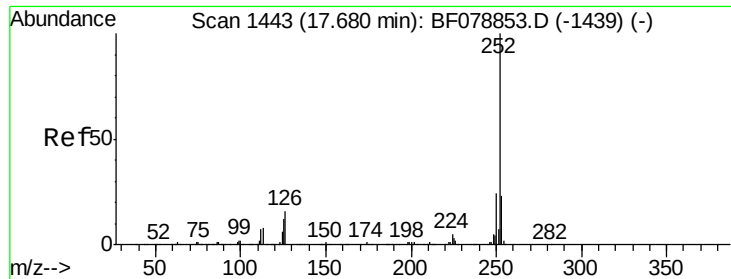


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 30.17 ng

RT: 17.61 min Scan# 1437

Delta R.T. -0.11 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

Instrument :

BNA_F

ClientSampleId :

GRID-5(0-6)

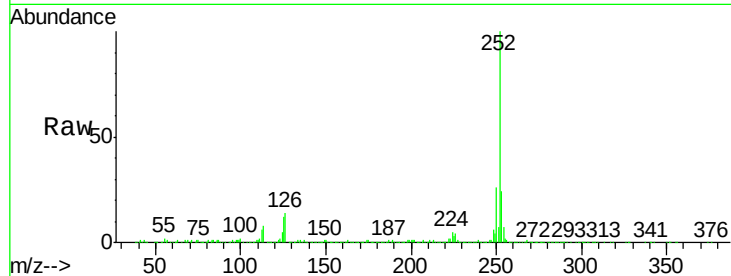
Tgt Ion:252 Resp: 592730

Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

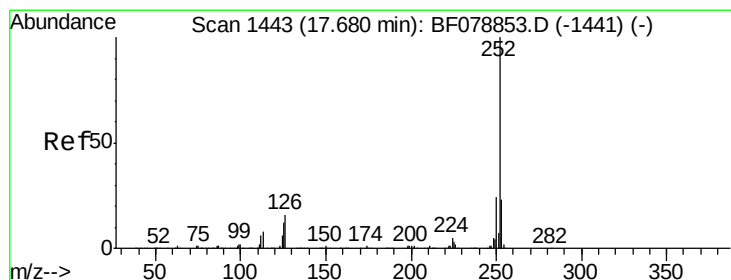
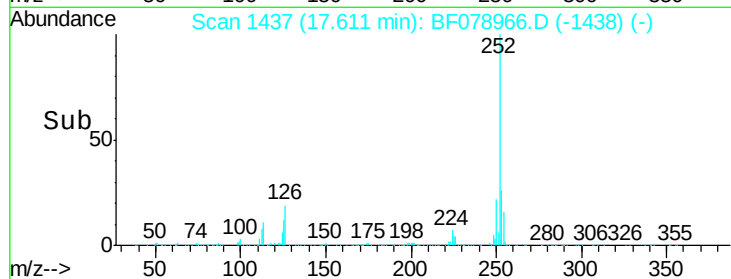
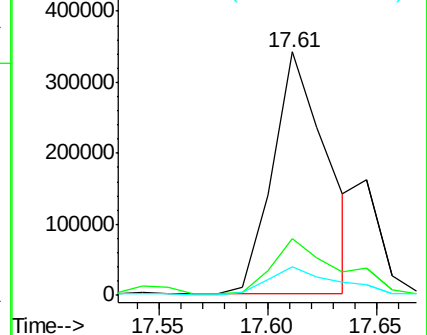
125 11.5 9.5 14.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 38.04 ng

RT: 17.61 min Scan# 1437

Delta R.T. -0.15 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

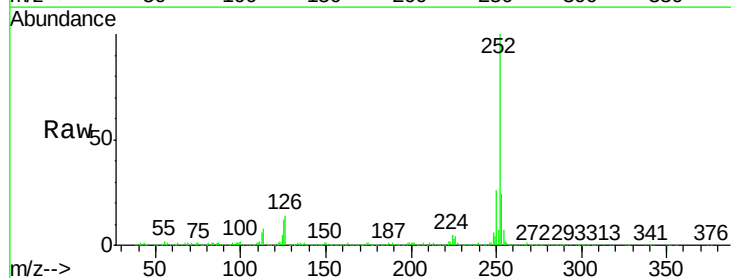
Tgt Ion:252 Resp: 723509

Ion Ratio Lower Upper

252 100

253 23.5 18.1 27.1

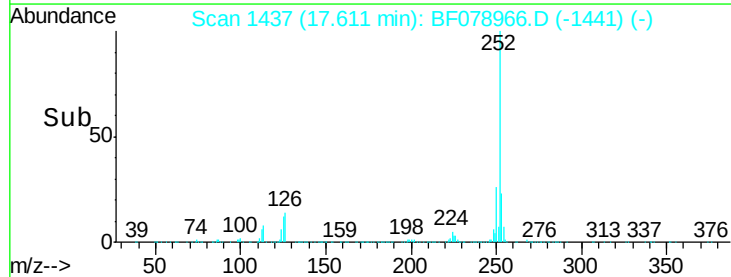
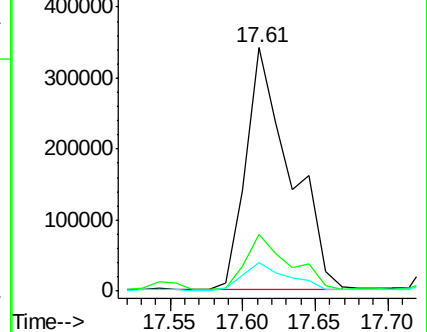
125 11.5 10.0 15.0

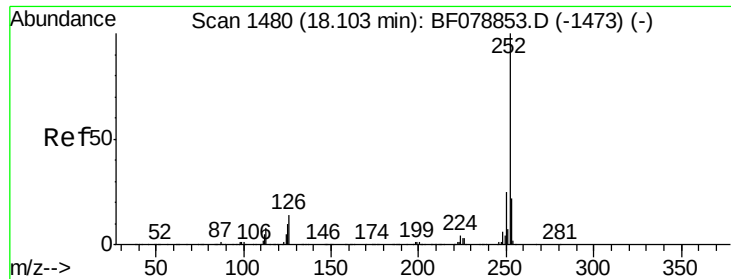


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

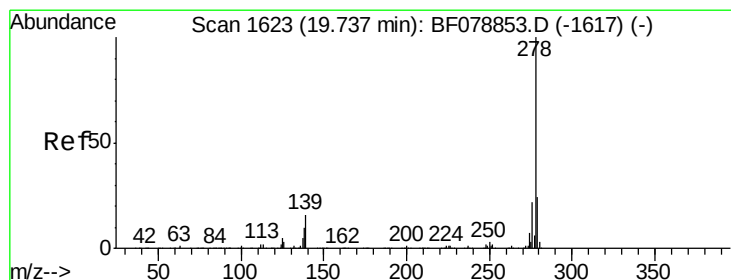
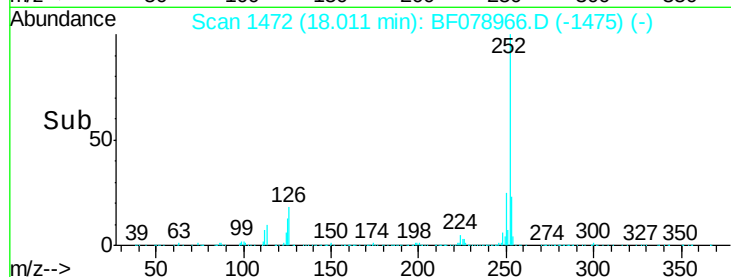
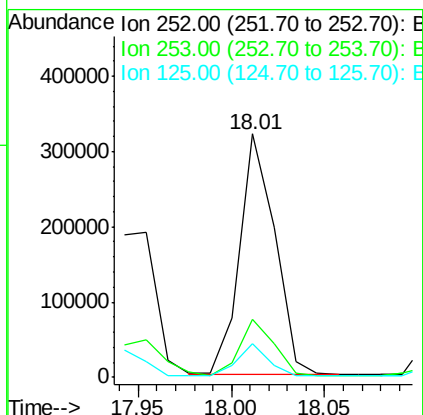
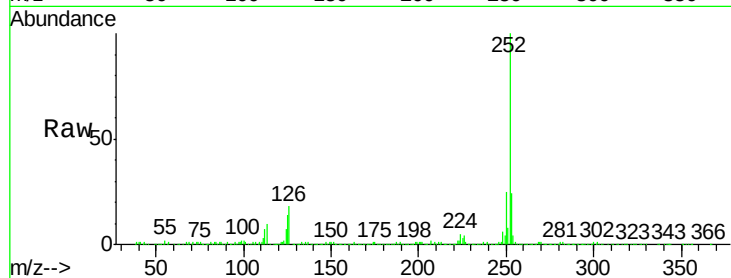




#89
Benzo(a)pyrene
Concen: 23.18 ng
RT: 18.01 min Scan# 1472
Delta R.T. -0.14 min
Lab File: BF078966.D
Acq: 6 May 2015 17:59

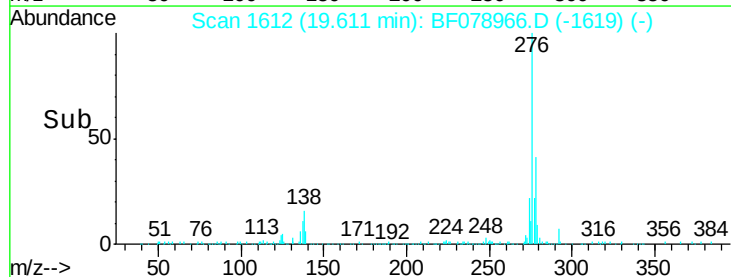
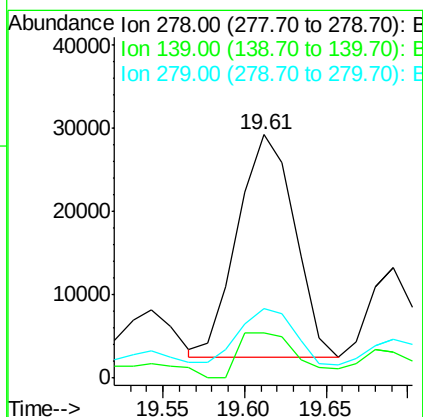
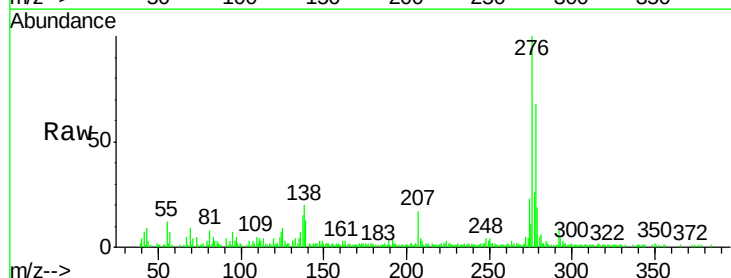
Instrument :
BNA_F
ClientSampled :
GRID-5(0-6)

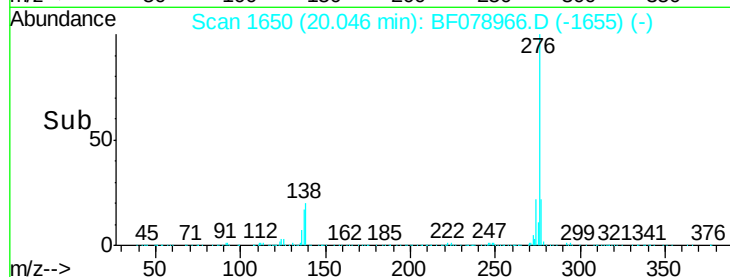
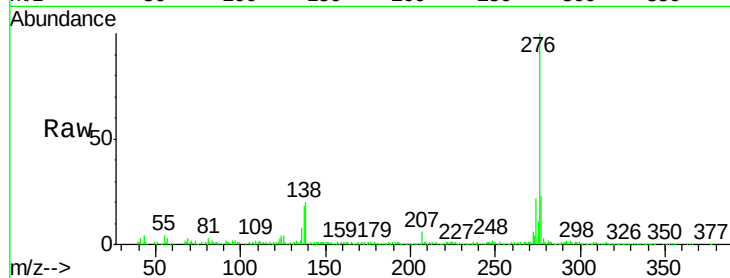
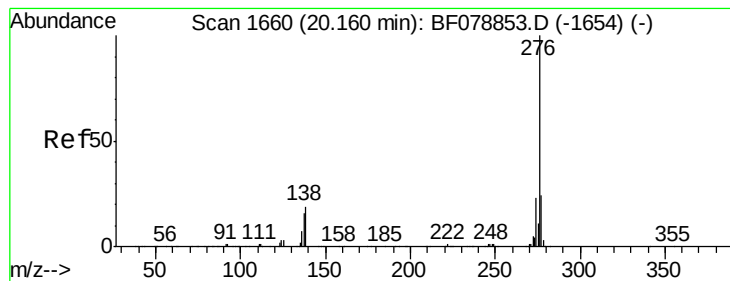
Tgt Ion: 252 Resp: 419375
Ion Ratio Lower Upper
252 100
253 23.7 17.3 25.9
125 13.8 7.0 10.6#



#90
Dibenzo(a,h)anthracene
Concen: 3.38 ng
RT: 19.61 min Scan# 1612
Delta R.T. -0.18 min
Lab File: BF078966.D
Acq: 6 May 2015 17:59

Tgt Ion: 278 Resp: 65003
Ion Ratio Lower Upper
278 100
139 18.8 12.8 19.2
279 28.3 19.6 29.4





#91

Benzo(g,h,i)perylene

Concen: 13.66 ng

RT: 20.05 min Scan# 1650

Delta R.T. -0.16 min

Lab File: BF078966.D

Acq: 6 May 2015 17:59

Instrument :

BNA_F

ClientSampleId :

GRID-5(0-6)

Tgt Ion: 276 Resp: 263232

Ion Ratio Lower Upper

276 100

277 23.5 18.6 28.0

138 20.4 17.4 26.0

