

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052015\
 Data File : BF079393.D
 Acq On : 20 May 2015 22:20
 Operator : TP/IZ
 Sample : G2299-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LS-SB04A(2.5-3.0)

Quant Time: May 21 01:19:53 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 20 05:08:22 2015
 Response via : Initial Calibration

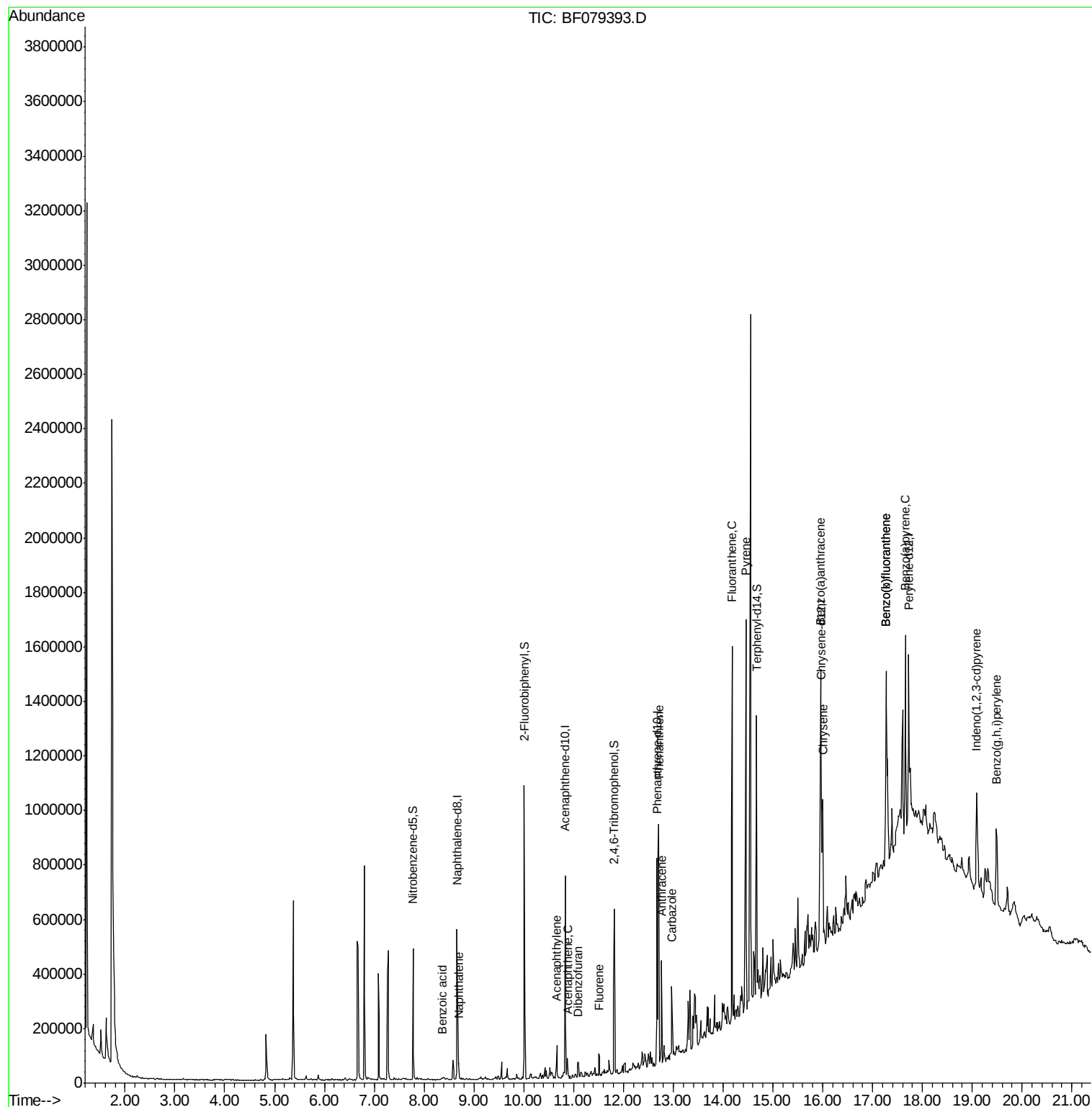
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ng	-7.13
21) Naphthalene-d8	8.66	136	298289	20.00	ng	-0.05
38) Acenaphthene-d10	10.83	164	151679	20.00	ng	-0.05
63) Phenanthrene-d10	12.67	188	290288	20.00	ng	-0.05
75) Chrysene-d12	15.97	240	297902	20.00	ng	-0.06
86) Perylene-d12	17.73	264	307711	20.00	ng	-0.09
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	7.78	82	146596	28.25	ng	-0.05
41) 2,4,6-Tribromophenol	11.82	330	82475	50.26	ng	-0.05
44) 2-Fluorobiphenyl	10.01	172	329800	30.29	ng	-0.05
78) Terphenyl-d14	14.67	244	399310	32.09	ng	-0.05
Target Compounds						
31) Naphthalene	8.70	128	30466	2.14	ng	Qvalue 99
32) Benzoic acid	8.36	122	536	6.49	ng	# 66
48) Acenaphthylene	10.66	152	53292	3.45	ng	99
51) Acenaphthene	10.88	154	23256	2.53	ng	96
54) Dibenzofuran	11.10	168	27526	2.07	ng	93
57) Fluorene	11.52	166	29108	2.67	ng	95
70) Phenanthrene	12.71	178	477060	29.38	ng	100
71) Anthracene	12.77	178	152319	9.56	ng	99
72) Carbazole	12.97	167	45989	3.03	ng	# 93
74) Fluoranthene	14.18	202	676703	39.99	ng	94
77) Pyrene	14.46	202	617167	35.95	ng	98
80) Benzo(a)anthracene	15.95	228	391056	23.97	ng	96
82) Chrysene	16.00	228	288860	18.41	ng	97
85) Indeno(1,2,3-cd)pyrene	19.09	276	270324	13.52	ng	94
87) Benzo(b)fluoranthene	17.27	252	646840	38.40	ng	99
88) Benzo(k)fluoranthene	17.27	252	646840	39.67	ng	# 94
89) Benzo(a)pyrene	17.66	252	371761	23.97	ng	# 95
91) Benzo(g,h,i)perylene	19.49	276	267596	16.20	ng	# 90

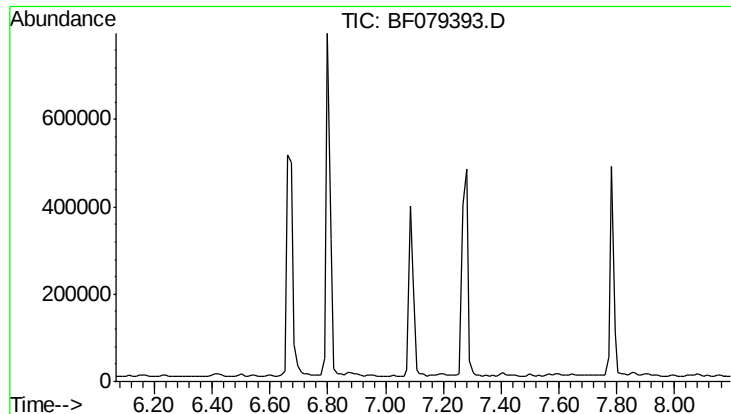
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.00 ng

Expected RT: 7.13 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Instrument :

BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

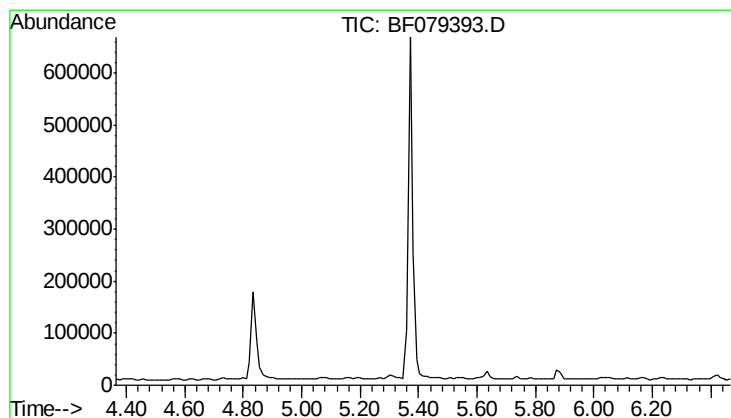
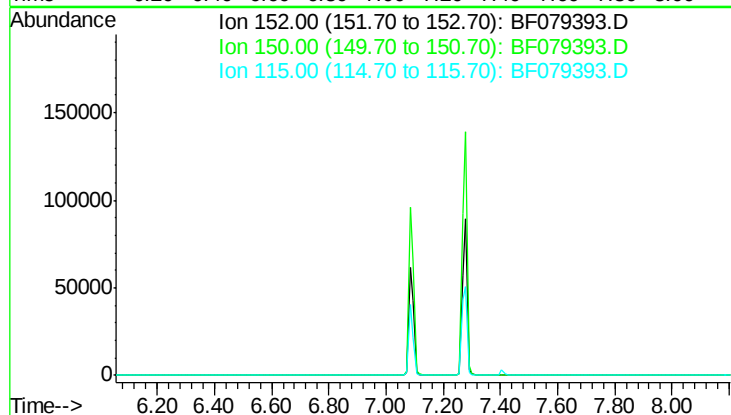
Tgt Ion: 152

Sig Exp Ratio

152 100

150 154.8

115 61.7



#5

2-Fluorophenol

Concen: 0.00 ng

Expected RT: 5.42 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

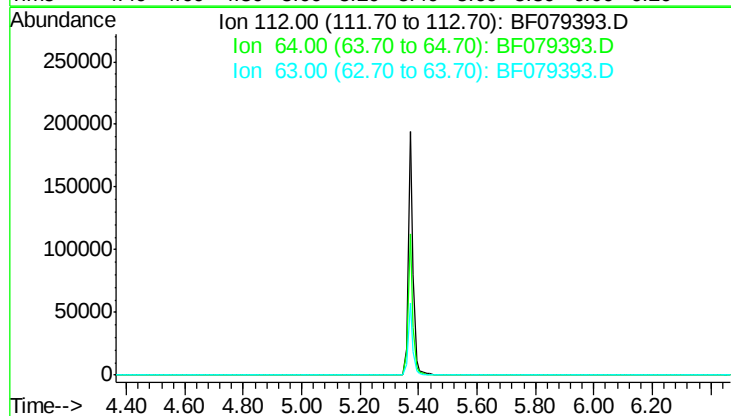
Tgt Ion: 112

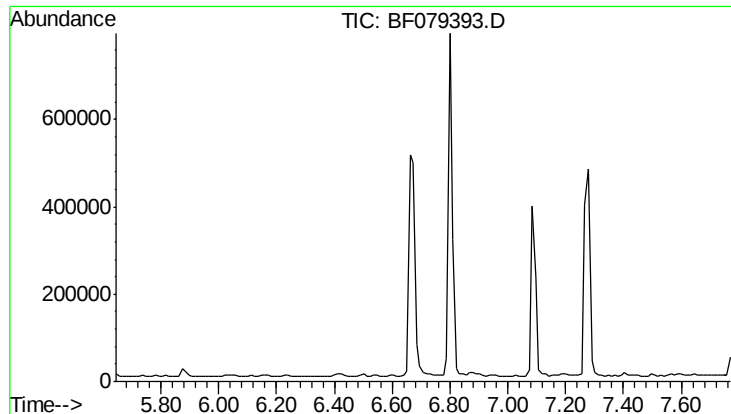
Sig Exp Ratio

112 100

64 55.2

63 28.4





#7

Phenol-d6

Concen: 0.00 ng

Expected RT: 6.71 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Instrument :

BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

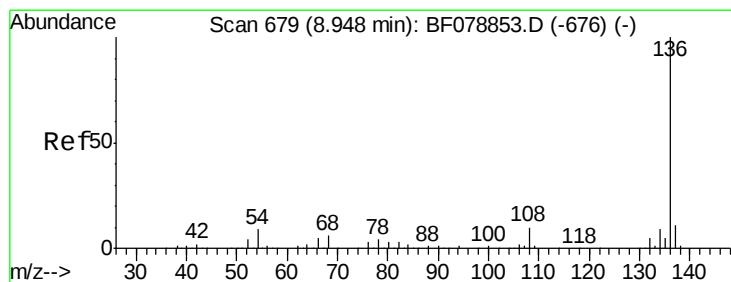
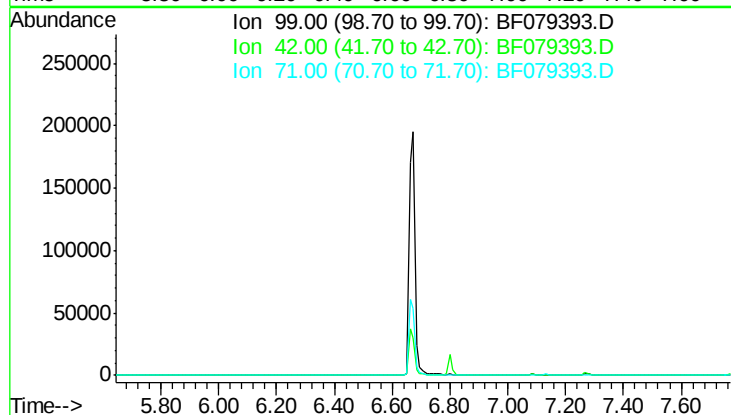
Tgt Ion: 99

Sig Exp Ratio

99 100

42 21.4

71 32.9



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.66 min Scan# 654

Delta R.T. -0.05 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Tgt Ion:136 Resp: 298289

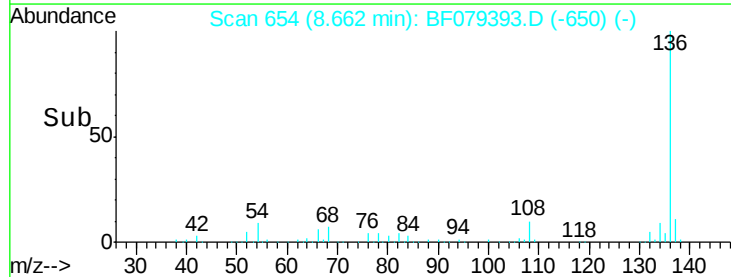
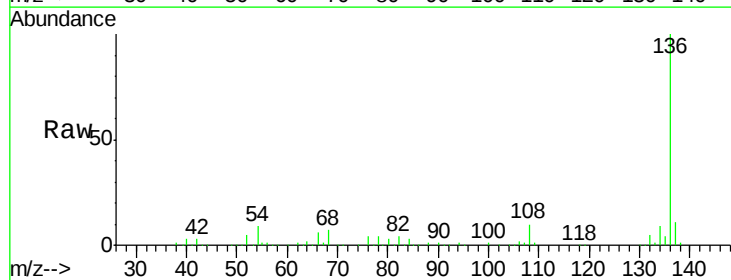
Ion Ratio Lower Upper

136 100

137 11.4 8.8 13.2

54 9.4 6.9 10.3

68 7.1 4.9 7.3

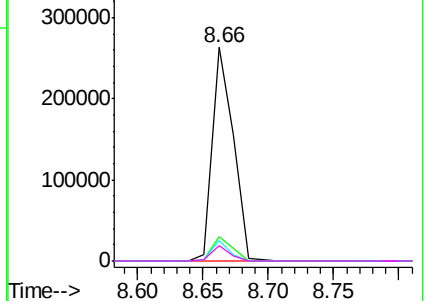


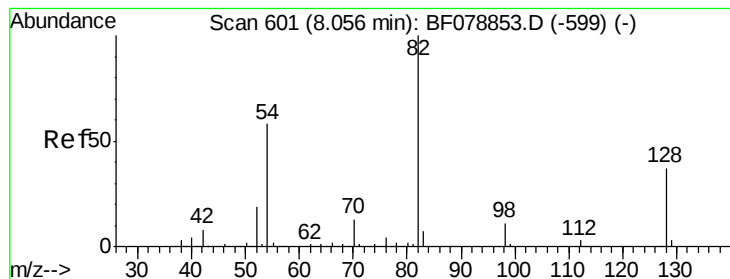
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 28.25 ng

RT: 7.78 min Scan# 577

Delta R.T. -0.05 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Instrument :

BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

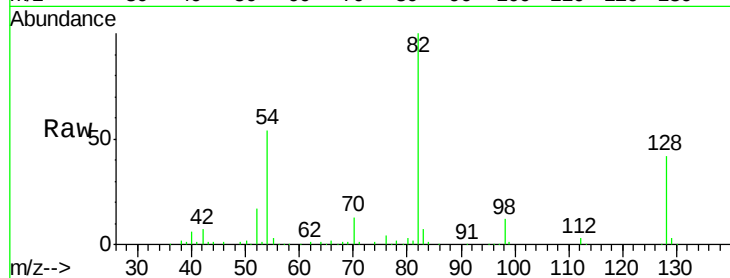
Tgt Ion: 82 Resp: 146596

Ion Ratio Lower Upper

82 100

128 42.0 29.7 44.5

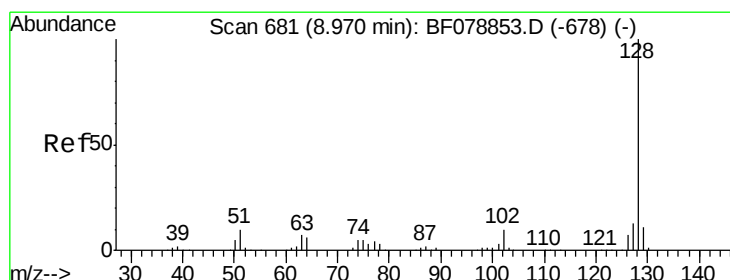
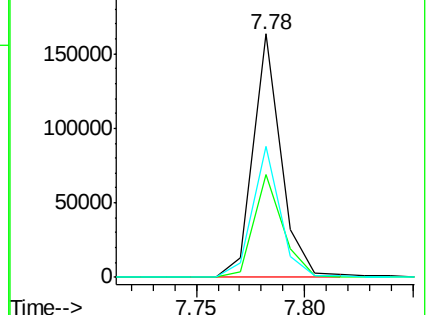
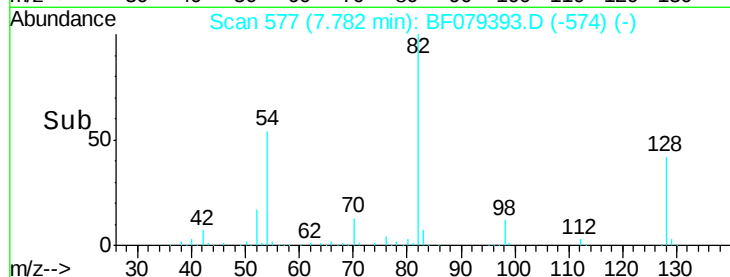
54 53.7 46.2 69.4



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 2.14 ng

RT: 8.70 min Scan# 657

Delta R.T. -0.03 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

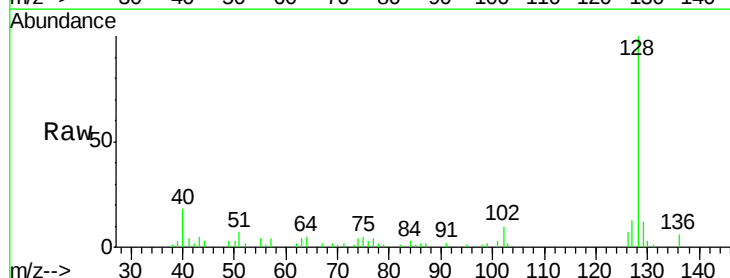
Tgt Ion: 128 Resp: 30466

Ion Ratio Lower Upper

128 100

129 12.0 9.2 13.8

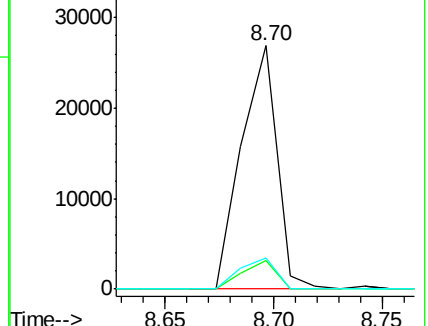
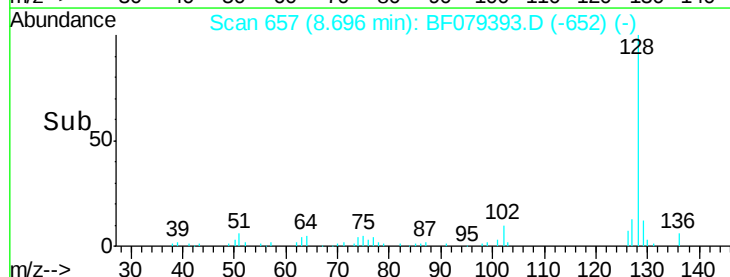
127 13.0 10.3 15.5

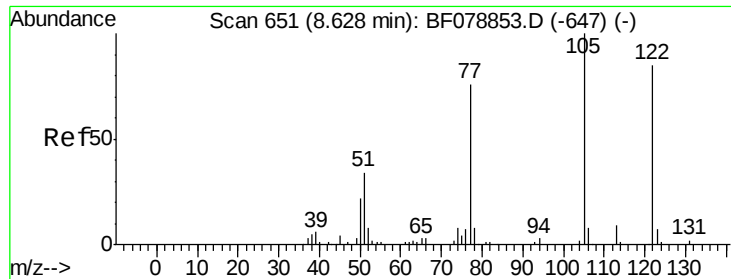


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 6.49 ng

RT: 8.36 min Scan# 628

Delta R.T. -0.08 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Instrument :

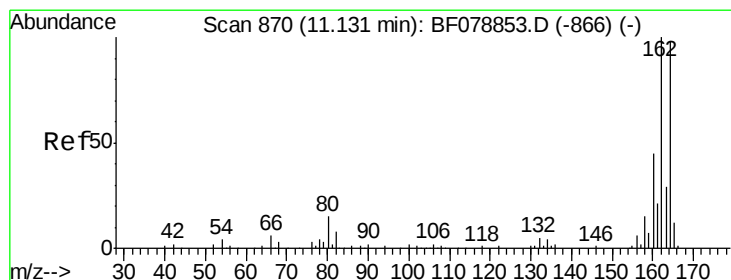
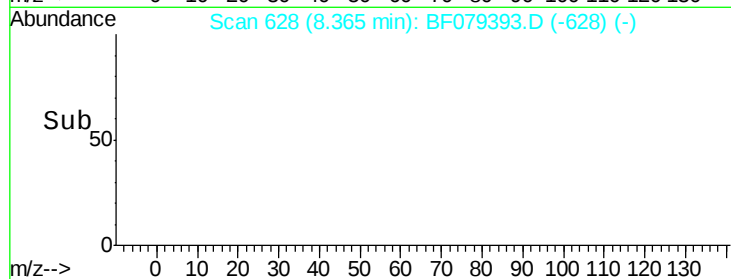
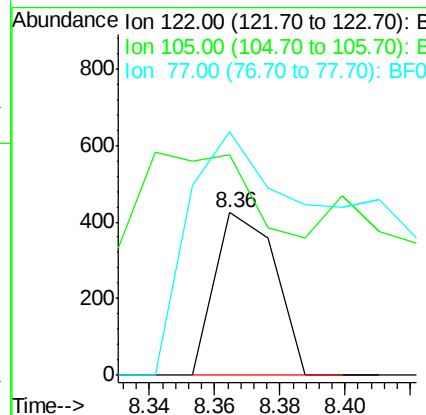
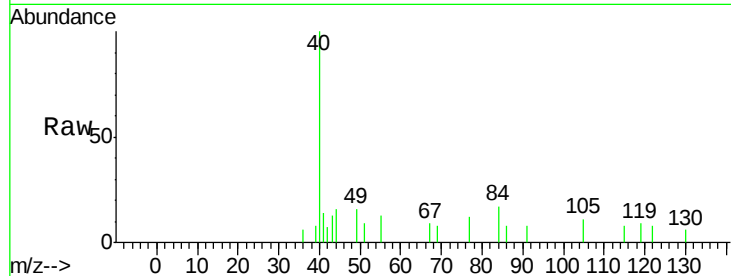
BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

Tgt Ion:122 Resp: 536

Ion	Ratio	Lower	Upper
122	100		
105	135.6	100.7	140.7
77	149.8	72.0	112.0#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.83 min Scan# 844

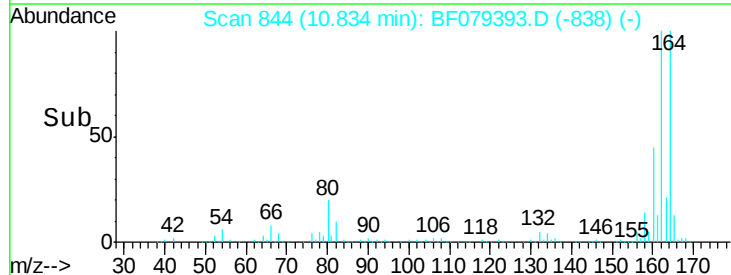
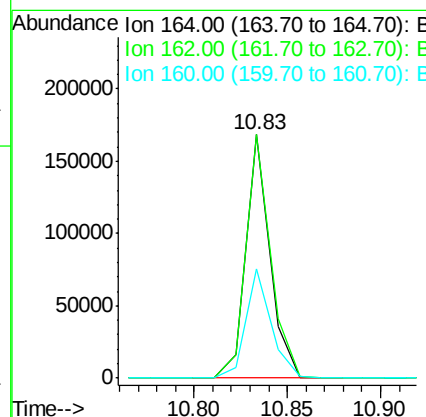
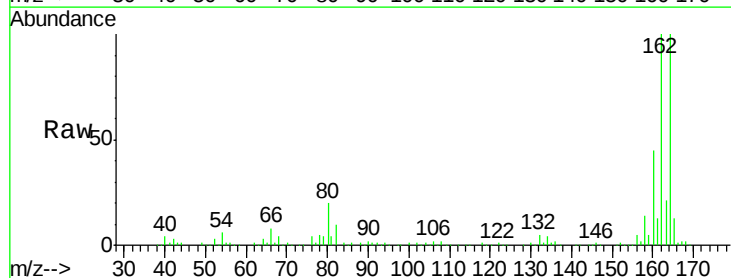
Delta R.T. -0.05 min

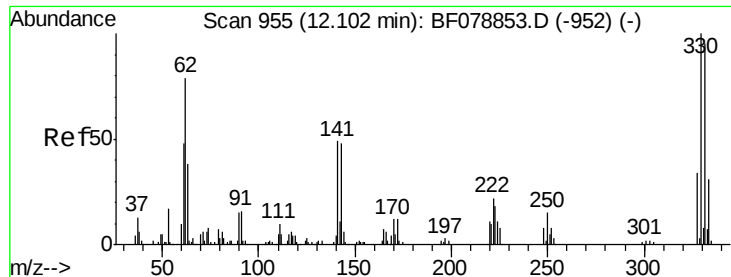
Lab File: BF079393.D

Acq: 20 May 2015 22:20

Tgt Ion:164 Resp: 151679

Ion	Ratio	Lower	Upper
164	100		
162	99.8	81.4	122.0
160	45.0	36.6	54.8

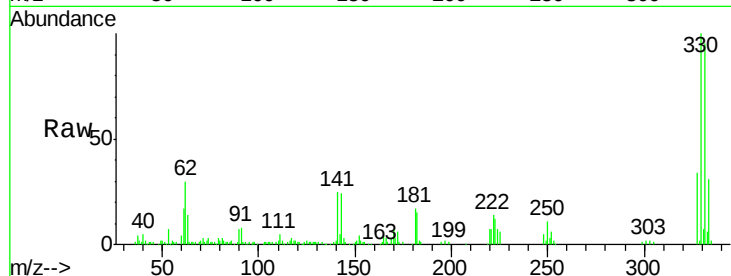




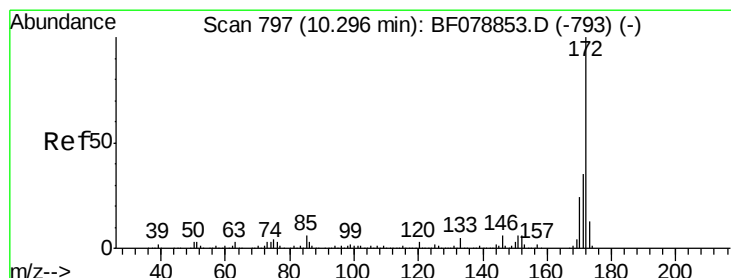
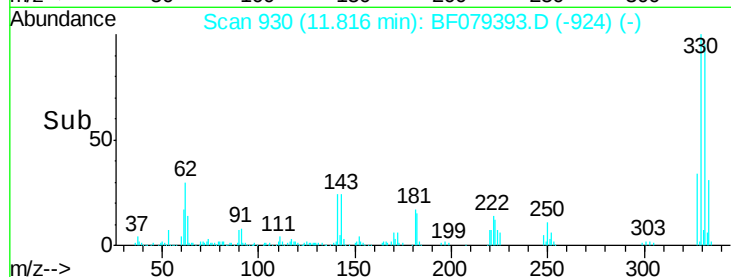
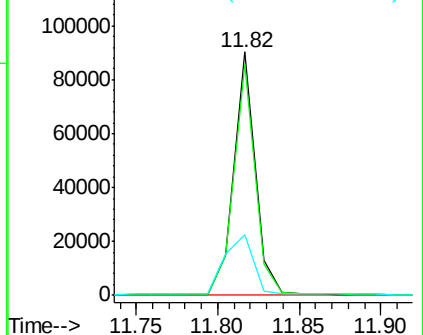
#41
 2,4,6-Tribromophenol
 Concen: 50.26 ng
 RT: 11.82 min Scan# 930
 Delta R.T. -0.05 min
 Lab File: BF079393.D
 Acq: 20 May 2015 22:20

Instrument :
 BNA_F
 ClientSampleId :
 LS-SB04A(2.5-3.0)

Tgt Ion:330 Resp: 82475
 Ion Ratio Lower Upper
 330 100
 332 95.4 76.9 115.3
 141 33.9 27.8 41.8

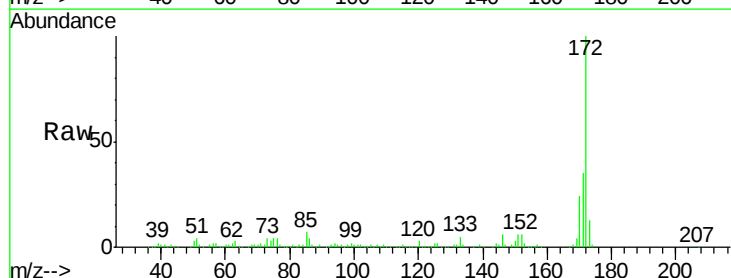


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

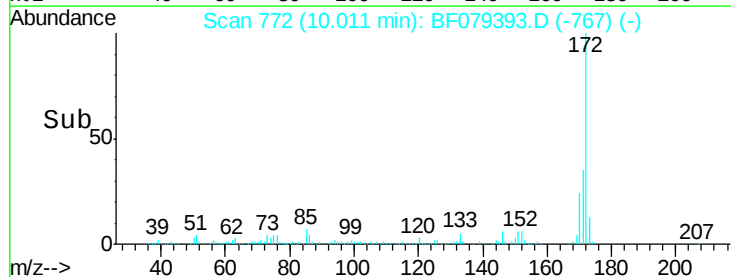
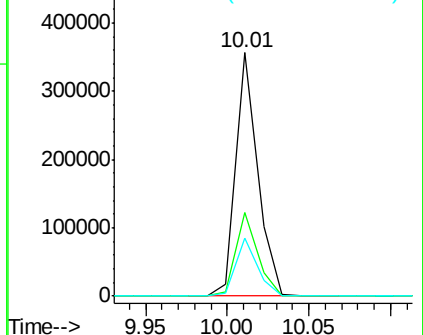


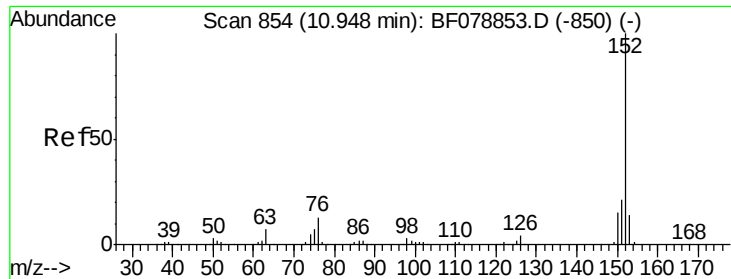
#44
 2-Fluorobiphenyl
 Concen: 30.29 ng
 RT: 10.01 min Scan# 772
 Delta R.T. -0.05 min
 Lab File: BF079393.D
 Acq: 20 May 2015 22:20

Tgt Ion:172 Resp: 329800
 Ion Ratio Lower Upper
 172 100
 171 34.5 28.3 42.5
 170 23.8 19.4 29.2



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





#48

Acenaphthylene

Concen: 3.45 ng

RT: 10.66 min Scan# 829

Delta R.T. -0.05 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Instrument :

BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

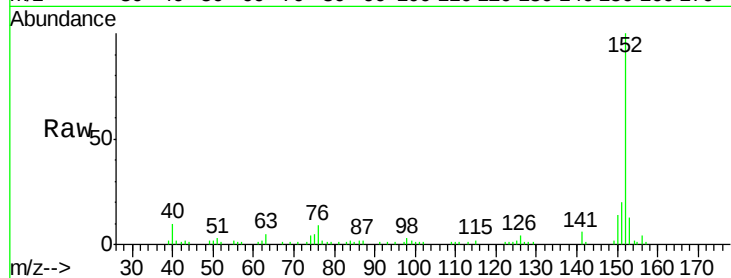
Tgt Ion:152 Resp: 53292

Ion Ratio Lower Upper

152 100

151 20.4 16.6 24.8

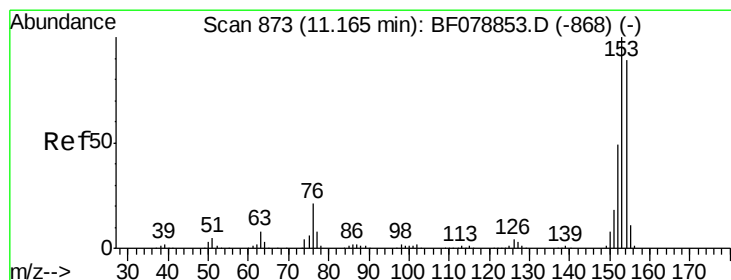
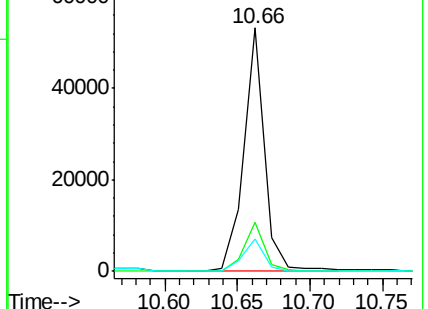
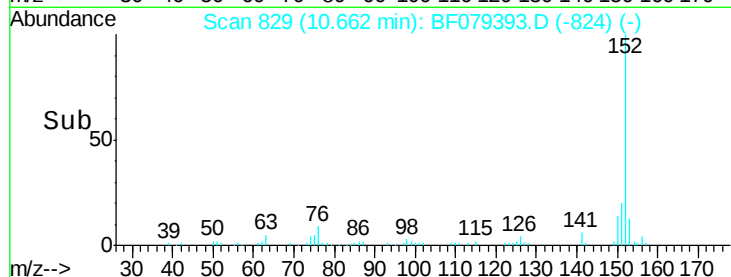
153 13.4 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#51

Acenaphthene

Concen: 2.53 ng

RT: 10.88 min Scan# 848

Delta R.T. -0.03 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

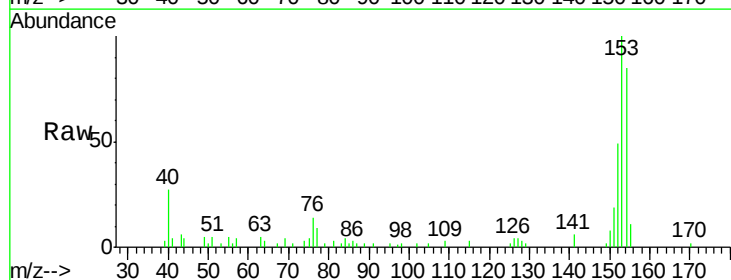
Tgt Ion:154 Resp: 23256

Ion Ratio Lower Upper

154 100

153 117.3 90.2 135.2

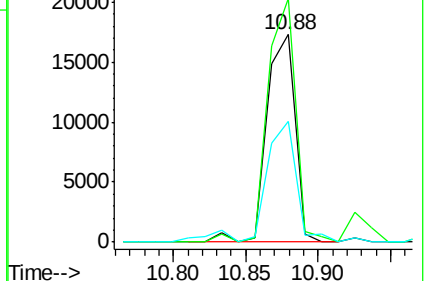
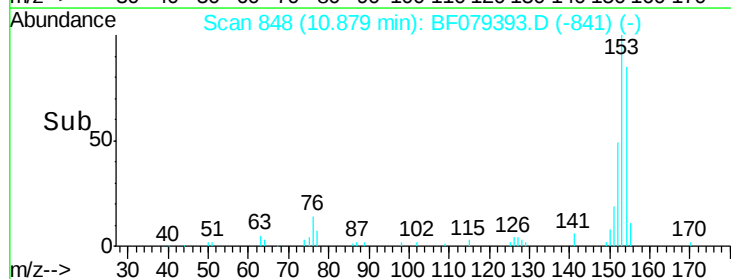
152 58.1 43.8 65.8

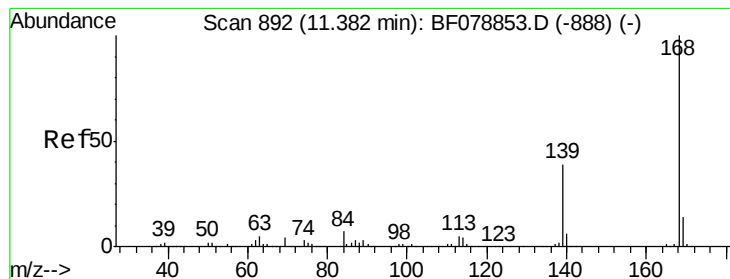


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 2.07 ng

RT: 11.10 min Scan# 867

Delta R.T. -0.03 min

Lab File: BF079393.D

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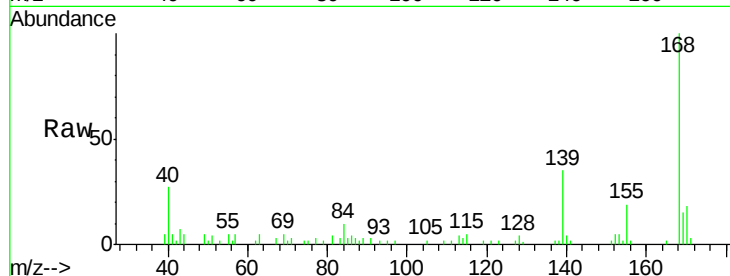
Tgt Ion:168 Resp: 27526

Ion Ratio Lower Upper

168 100

139 34.6 31.5 47.3

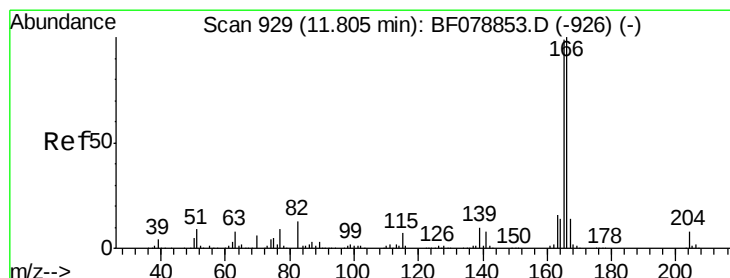
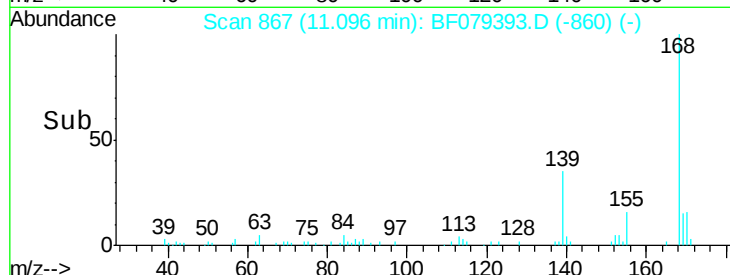
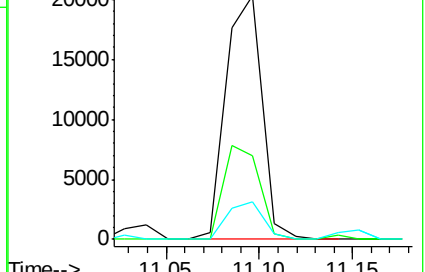
169 15.3 11.0 16.4



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: 2.67 ng

RT: 11.52 min Scan# 904

Delta R.T. -0.03 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

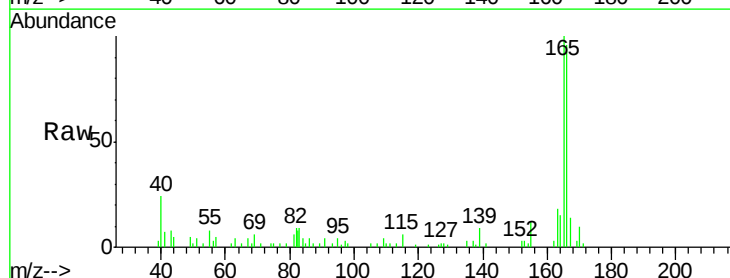
Tgt Ion:166 Resp: 29108

Ion Ratio Lower Upper

166 100

165 104.4 79.5 119.3

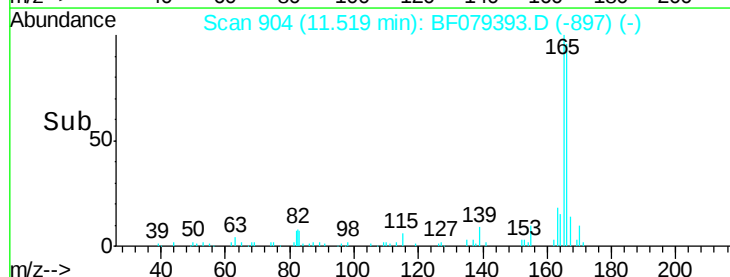
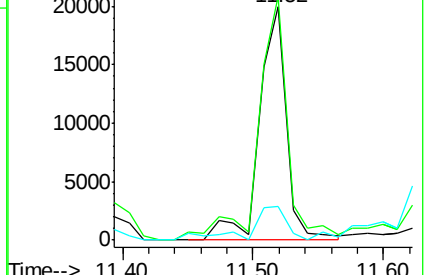
167 14.6 11.0 16.6

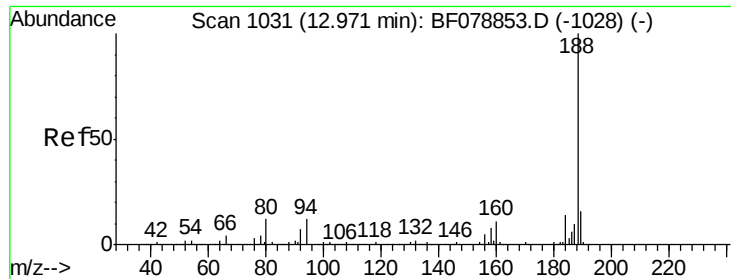


Abundance Ion 166.00 (165.70 to 166.70): E

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: 12.67 min Scan# 1005

Delta R.T. -0.05 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Instrument :

BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

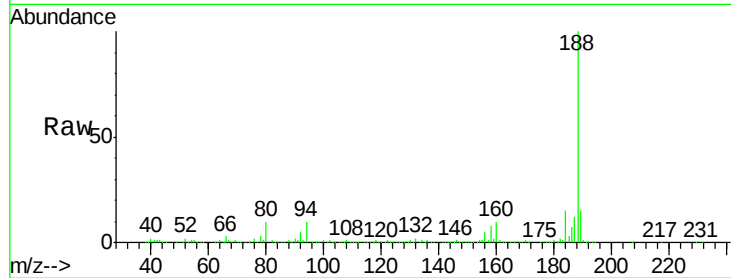
Tgt Ion:188 Resp: 290288

Ion Ratio Lower Upper

188 100

94 10.1 9.4 14.0

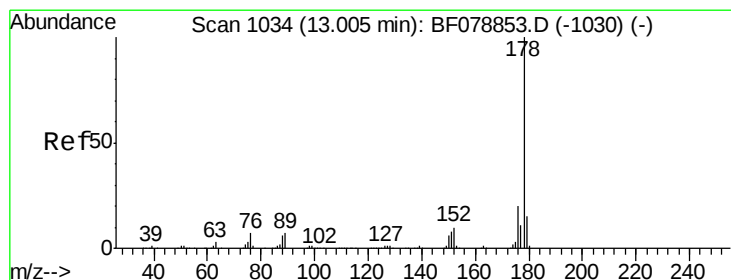
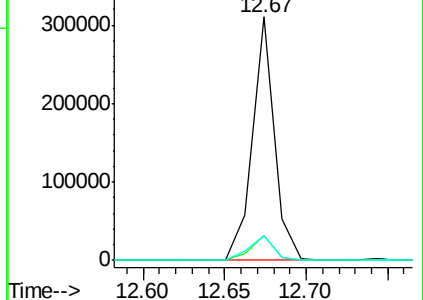
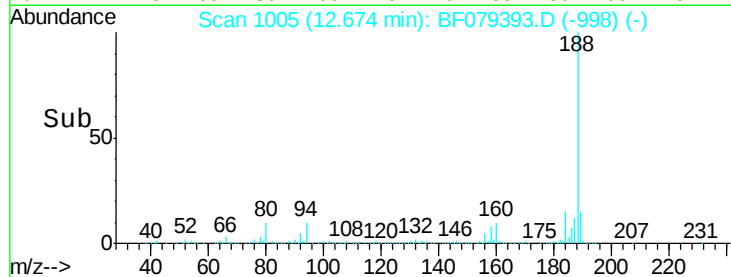
80 10.0 9.8 14.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 29.38 ng

RT: 12.71 min Scan# 1008

Delta R.T. -0.03 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

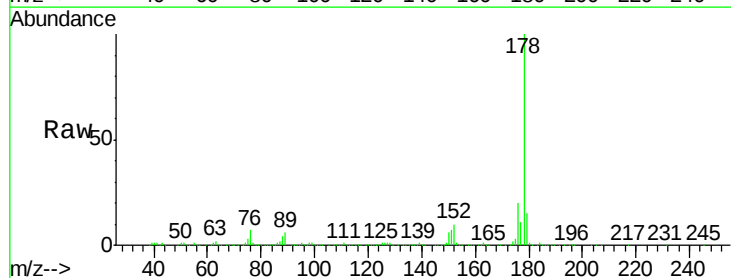
Tgt Ion:178 Resp: 477060

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

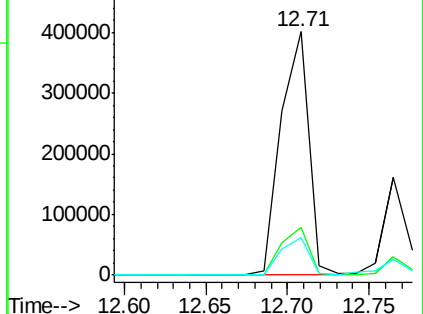
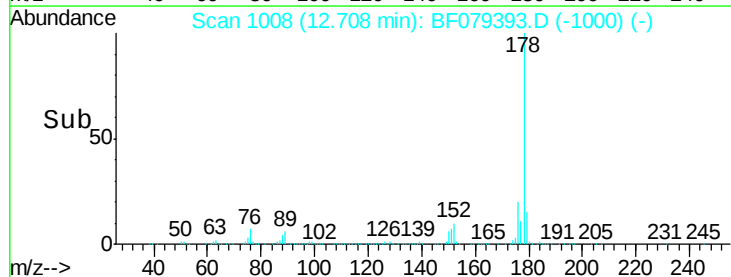
179 15.4 12.2 18.4

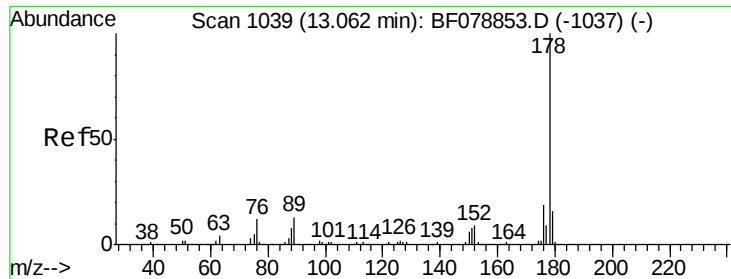


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

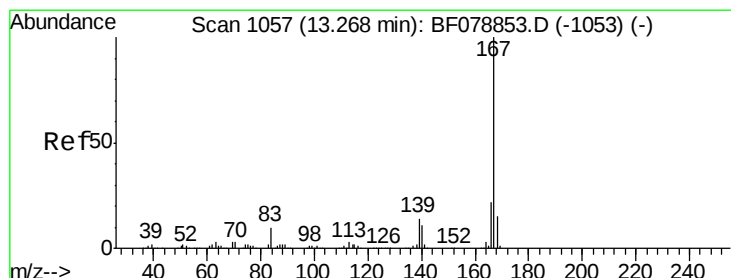
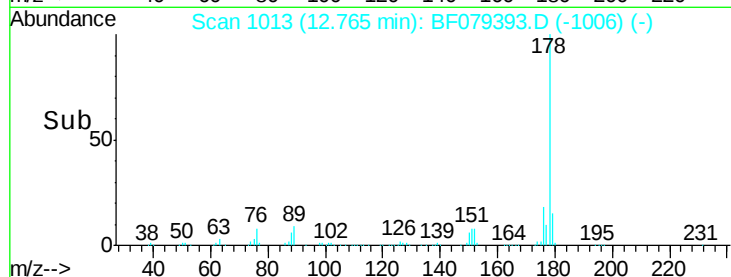
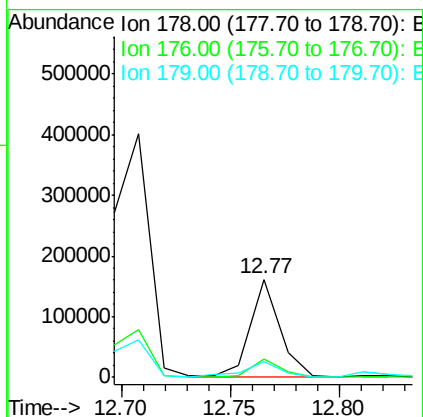
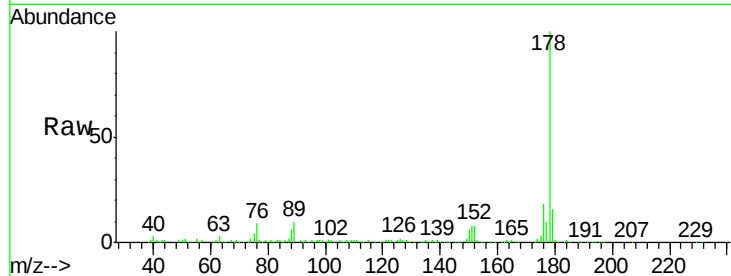




#71
 Anthracene
 Concen: 9.56 ng
 RT: 12.77 min Scan# 1013
 Delta R.T. -0.05 min
 Lab File: BF079393.D
 Acq: 20 May 2015 22:20

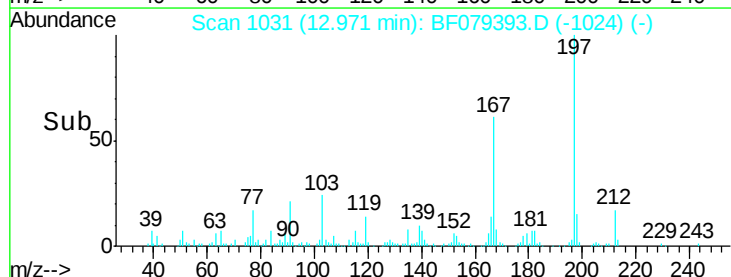
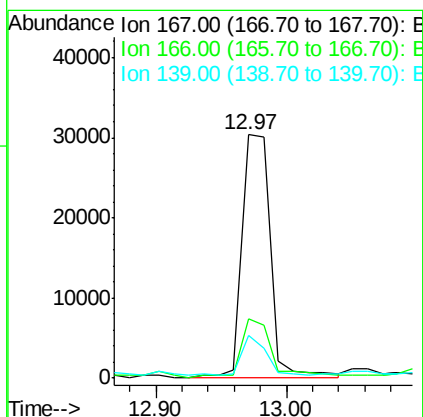
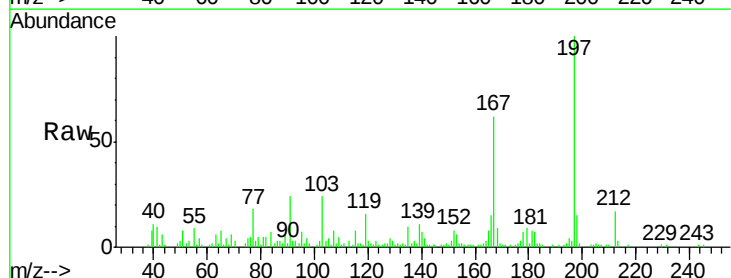
Instrument :
 BNA_F
 ClientSampleId :
 LS-SB04A(2.5-3.0)

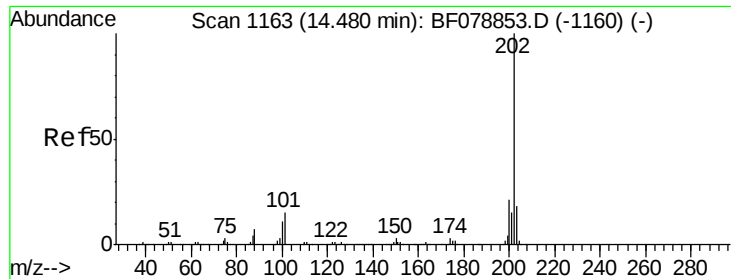
Tgt Ion:178 Resp: 152319
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.3 22.9
 179 15.6 12.6 19.0



#72
 Carbazole
 Concen: 3.03 ng
 RT: 12.97 min Scan# 1031
 Delta R.T. -0.05 min
 Lab File: BF079393.D
 Acq: 20 May 2015 22:20

Tgt Ion:167 Resp: 45989
 Ion Ratio Lower Upper
 167 100
 166 24.4 17.5 26.3
 139 17.3 11.0 16.4#





#74

Fluoranthene

Concen: 39.99 ng

RT: 14.18 min Scan# 1137

Delta R.T. -0.05 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Instrument :

BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

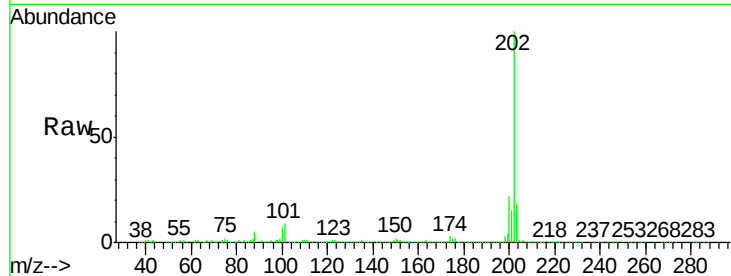
Tgt Ion:202 Resp: 676703

Ion Ratio Lower Upper

202 100

101 9.5 0.0 34.7

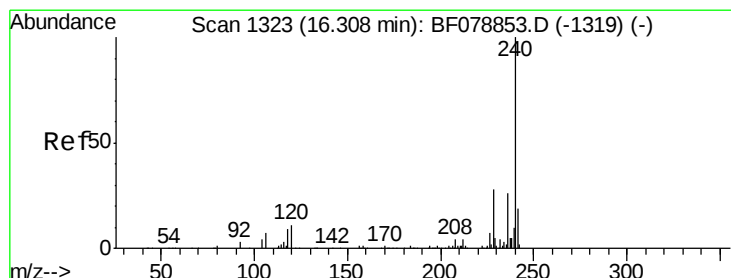
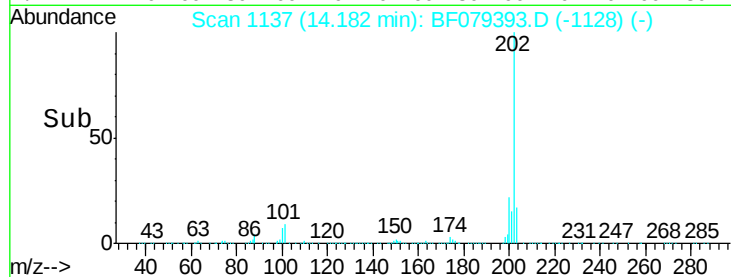
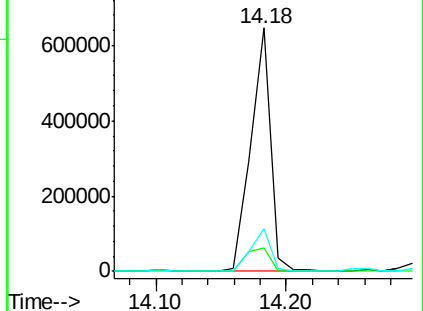
203 17.6 0.0 37.9



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: 15.97 min Scan# 1293

Delta R.T. -0.06 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

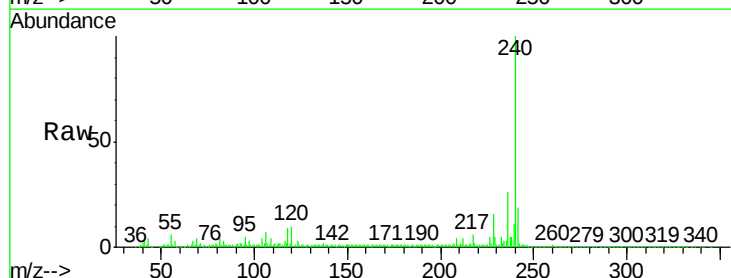
Tgt Ion:240 Resp: 297902

Ion Ratio Lower Upper

240 100

120 10.3 8.6 12.8

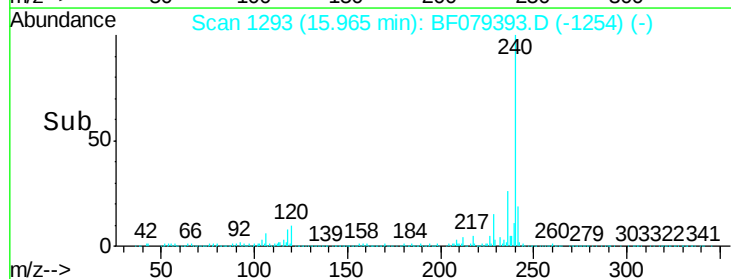
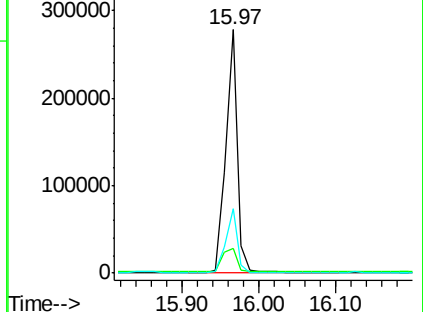
236 26.5 21.0 31.6

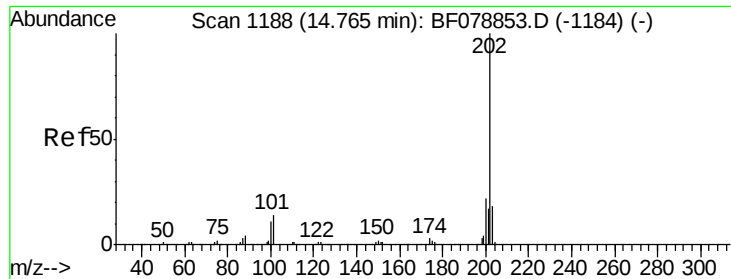


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

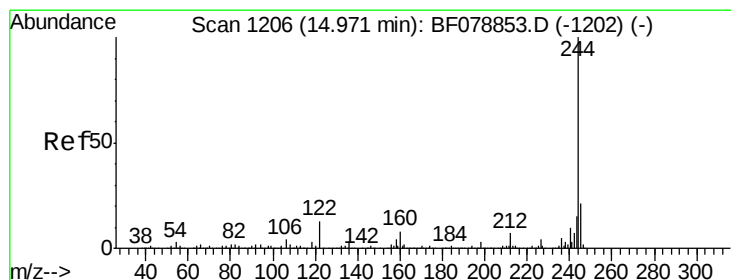
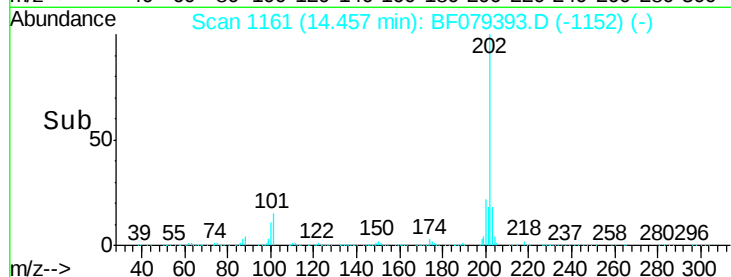
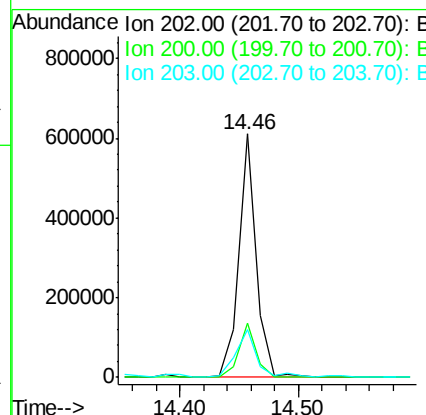
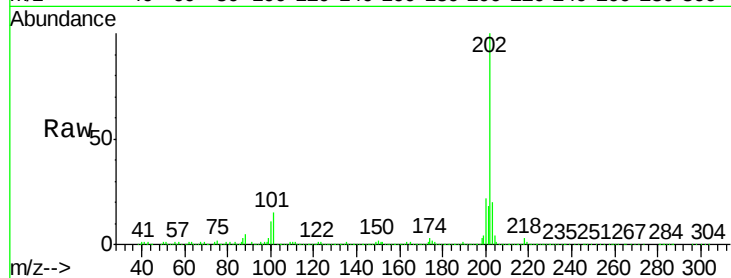




#77
 Pyrene
 Concen: 35.95 ng
 RT: 14.46 min Scan# 1161
 Delta R.T. -0.05 min
 Lab File: BF079393.D
 Acq: 20 May 2015 22:20

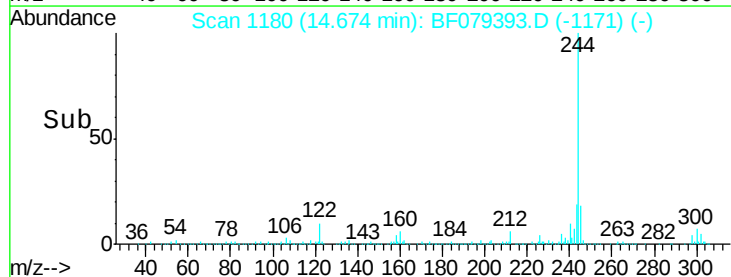
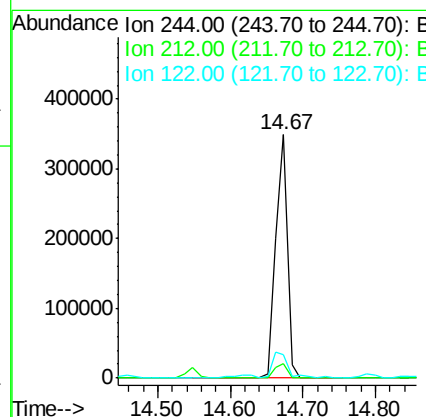
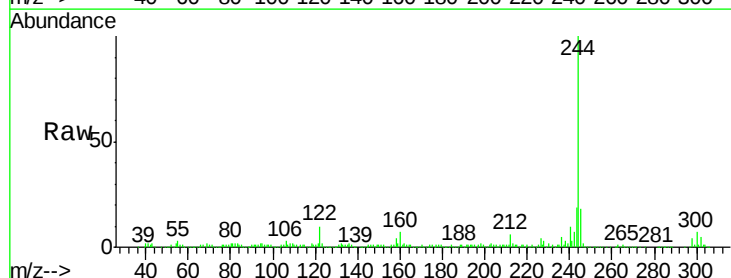
Instrument :
 BNA_F
 ClientSampleId :
 LS-SB04A(2.5-3.0)

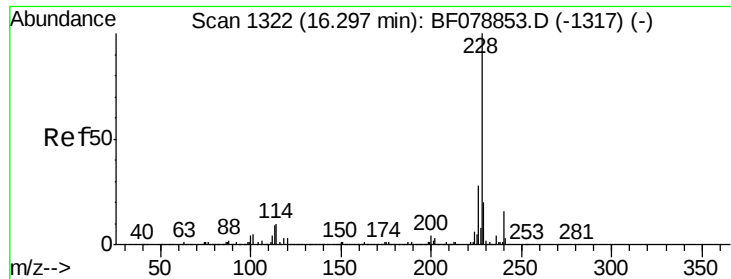
Tgt Ion: 202 Resp: 617167
 Ion Ratio Lower Upper
 202 100
 200 22.1 17.5 26.3
 203 19.7 14.7 22.1



#78
 Terphenyl-d14
 Concen: 32.09 ng
 RT: 14.67 min Scan# 1180
 Delta R.T. -0.05 min
 Lab File: BF079393.D
 Acq: 20 May 2015 22:20

Tgt Ion: 244 Resp: 399310
 Ion Ratio Lower Upper
 244 100
 212 6.1 5.6 8.4
 122 9.9 10.5 15.7#





#80

Benzo(a)anthracene

Concen: 23.97 ng

RT: 15.95 min Scan# 1292

Delta R.T. -0.06 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Instrument :

BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

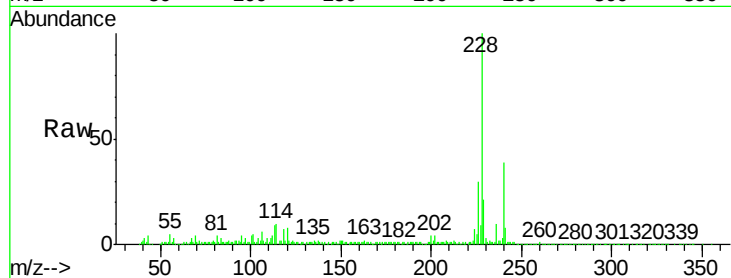
Tgt Ion:228 Resp: 391056

Ion Ratio Lower Upper

228 100

226 30.2 22.3 33.5

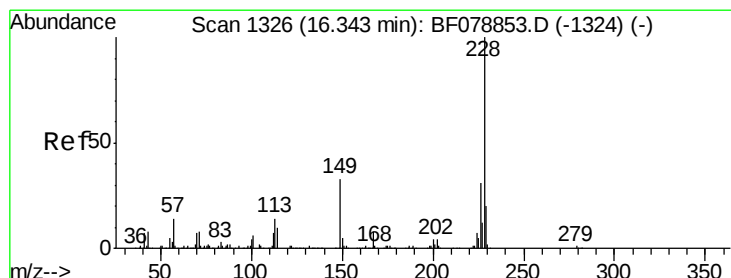
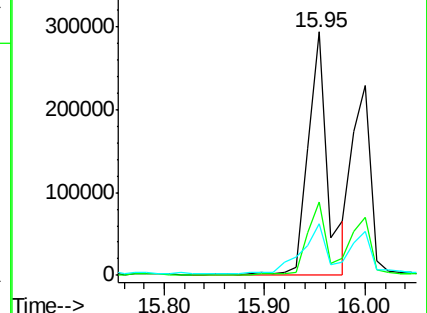
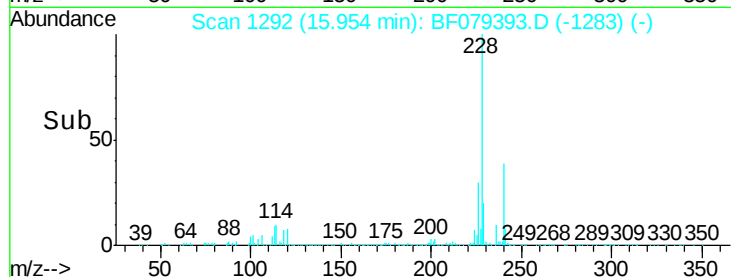
229 21.1 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 18.41 ng

RT: 16.00 min Scan# 1296

Delta R.T. -0.06 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

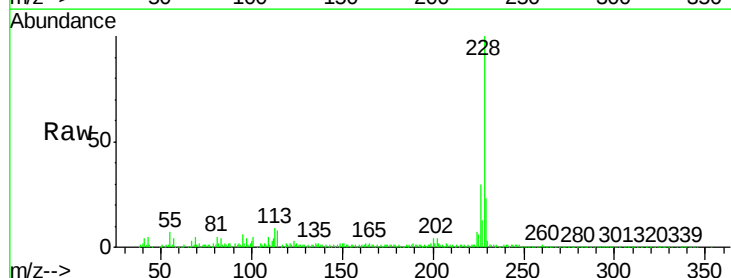
Tgt Ion:228 Resp: 288860

Ion Ratio Lower Upper

228 100

226 30.2 24.8 37.2

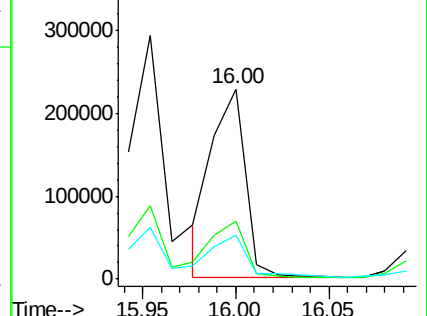
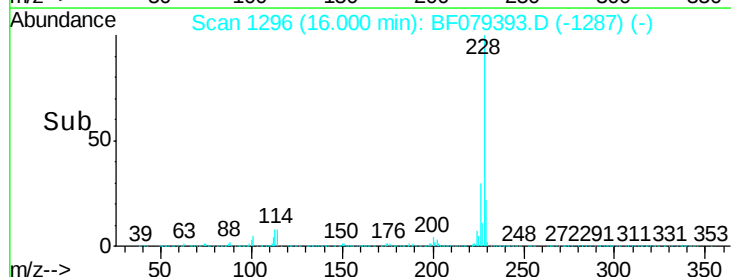
229 23.0 16.1 24.1

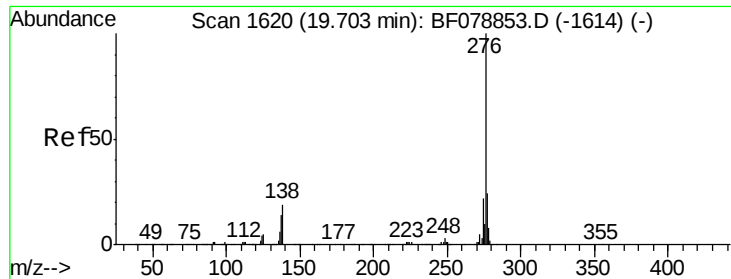


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 13.52 ng

RT: 19.09 min Scan# 1566

Delta R.T. -0.13 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Instrument :

BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

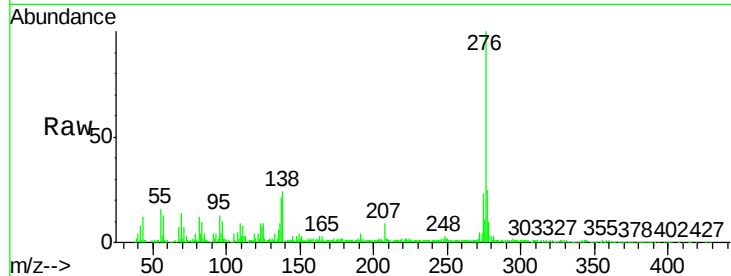
Tgt Ion:276 Resp: 270324

Ion Ratio Lower Upper

276 100

138 22.8 21.1 31.7

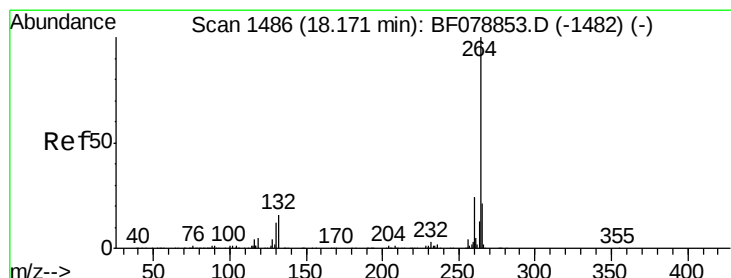
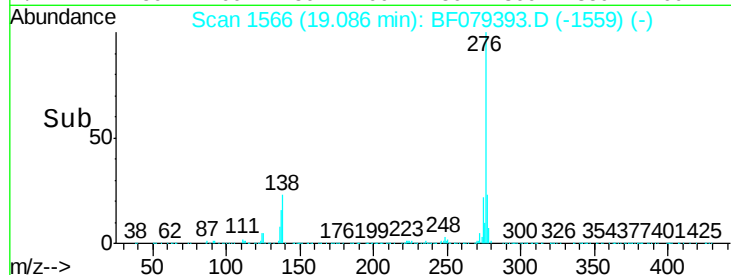
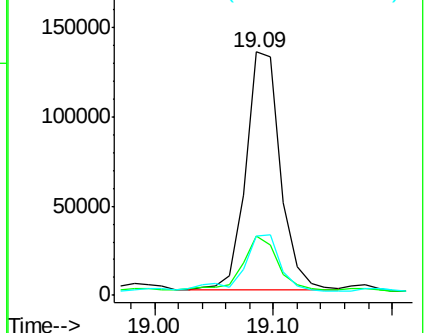
277 27.2 19.9 29.9



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: 17.73 min Scan# 1447

Delta R.T. -0.09 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

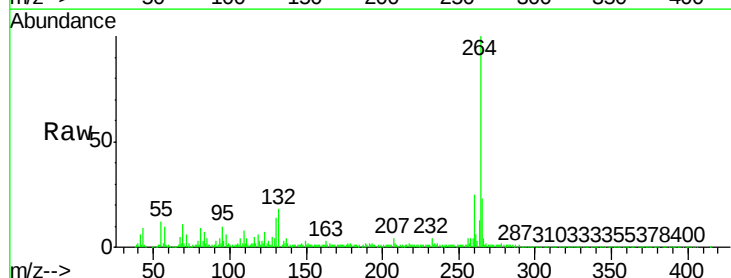
Tgt Ion:264 Resp: 307711

Ion Ratio Lower Upper

264 100

260 24.7 19.2 28.8

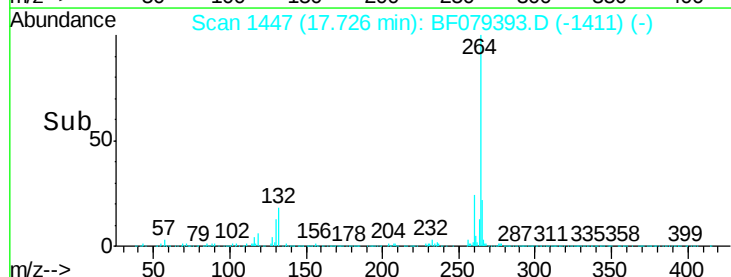
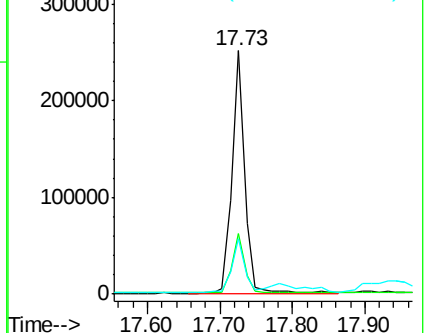
265 22.8 17.2 25.8

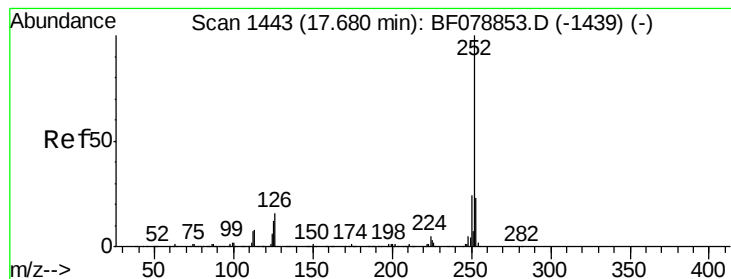


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 38.40 ng

RT: 17.27 min Scan# 1407

Delta R.T. -0.08 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

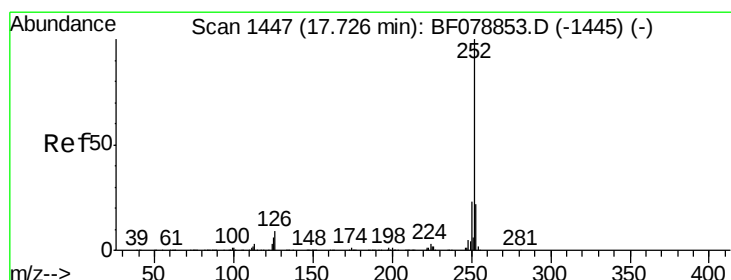
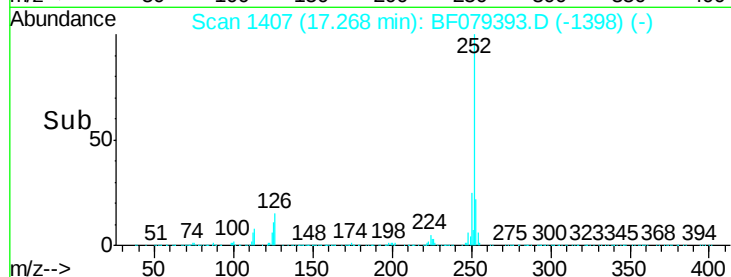
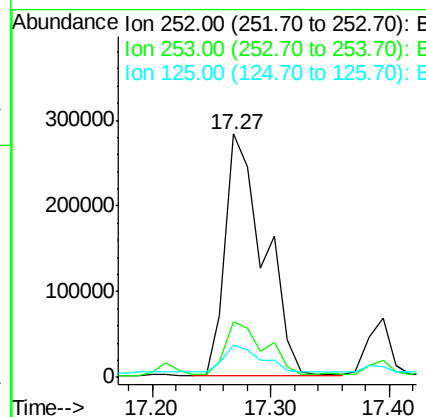
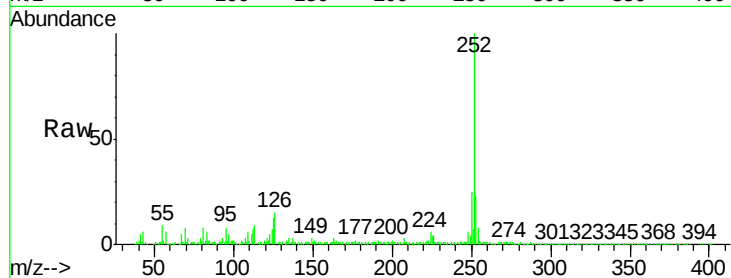
Instrument :

BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

Tgt Ion:	252	Resp:	646840
Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	13.2	9.4	14.2



#88

Benzo(k)fluoranthene

Concen: 39.67 ng

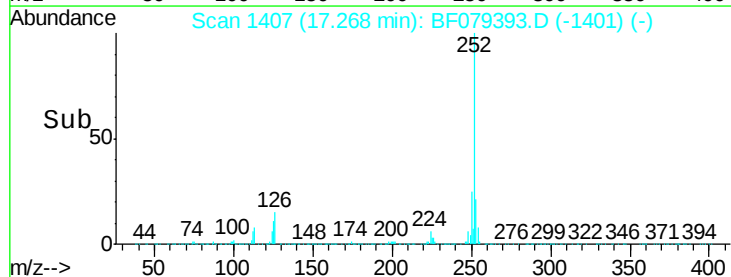
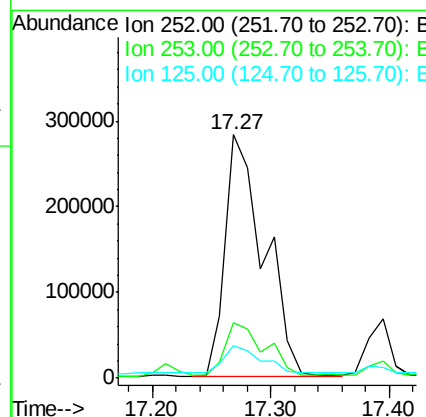
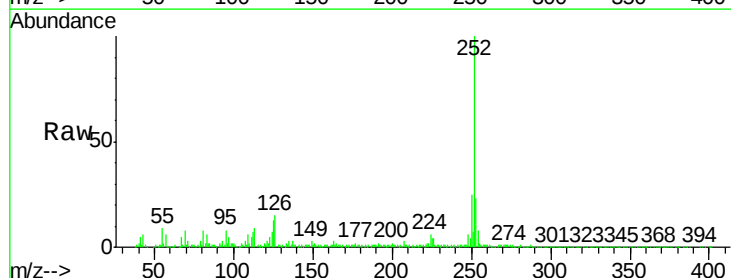
RT: 17.27 min Scan# 1407

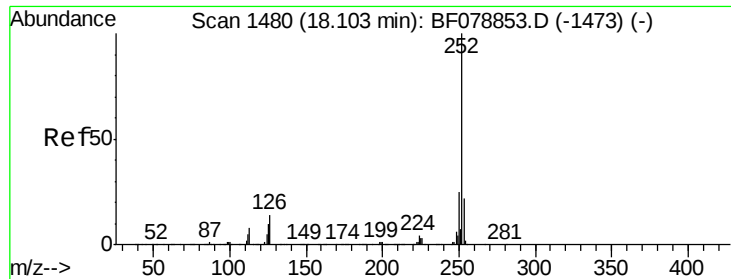
Delta R.T. -0.11 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Tgt Ion:	252	Resp:	646840
Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.4	26.0
125	13.2	6.1	9.1#





#89

Benzo(a)pyrene

Concen: 23.97 ng

RT: 17.66 min Scan# 1441

Delta R.T. -0.09 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

Instrument :

BNA_F

ClientSampleId :

LS-SB04A(2.5-3.0)

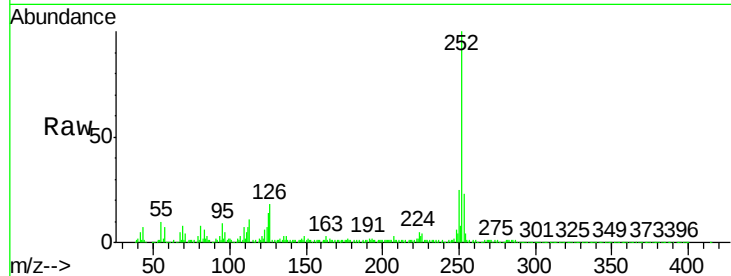
Tgt Ion:252 Resp: 371761

Ion Ratio Lower Upper

252 100

253 23.3 18.0 27.0

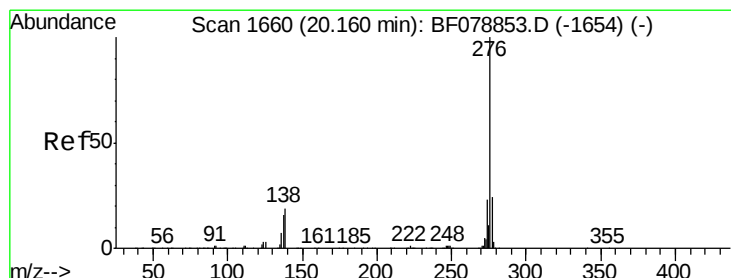
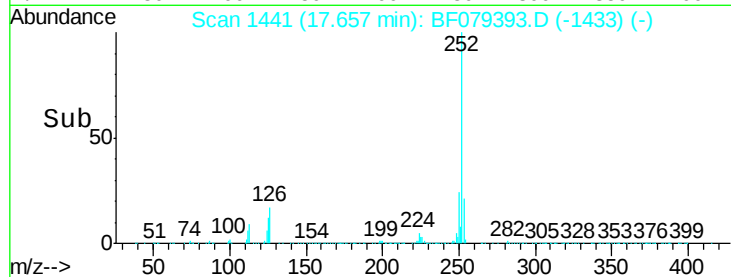
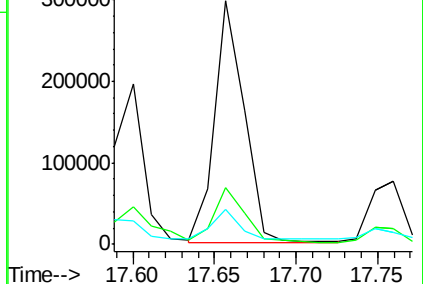
125 14.3 8.2 12.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 16.20 ng

RT: 19.49 min Scan# 1601

Delta R.T. -0.14 min

Lab File: BF079393.D

Acq: 20 May 2015 22:20

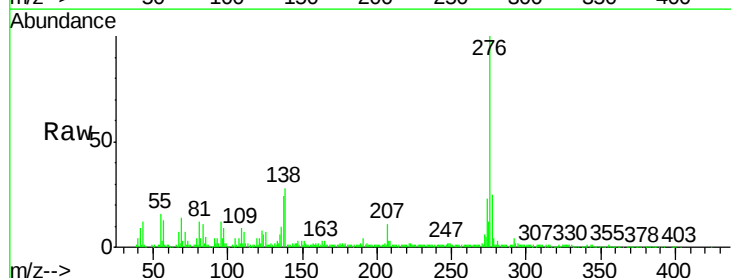
Tgt Ion:276 Resp: 267596

Ion Ratio Lower Upper

276 100

277 24.7 18.8 28.2

138 27.6 15.2 22.8#



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

