

Data Path : Z:\HPCHEM1\BNA_E\Data\BE010715\
 Data File : BE089355.D
 Acq On : 8 Jan 2015 9:07
 Operator : TP/IZ
 Sample : PB81206BS
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81206BS

Quant Time: Jan 08 15:53:09 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE010715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 08 15:21:44 2015
 Response via : Initial Calibration

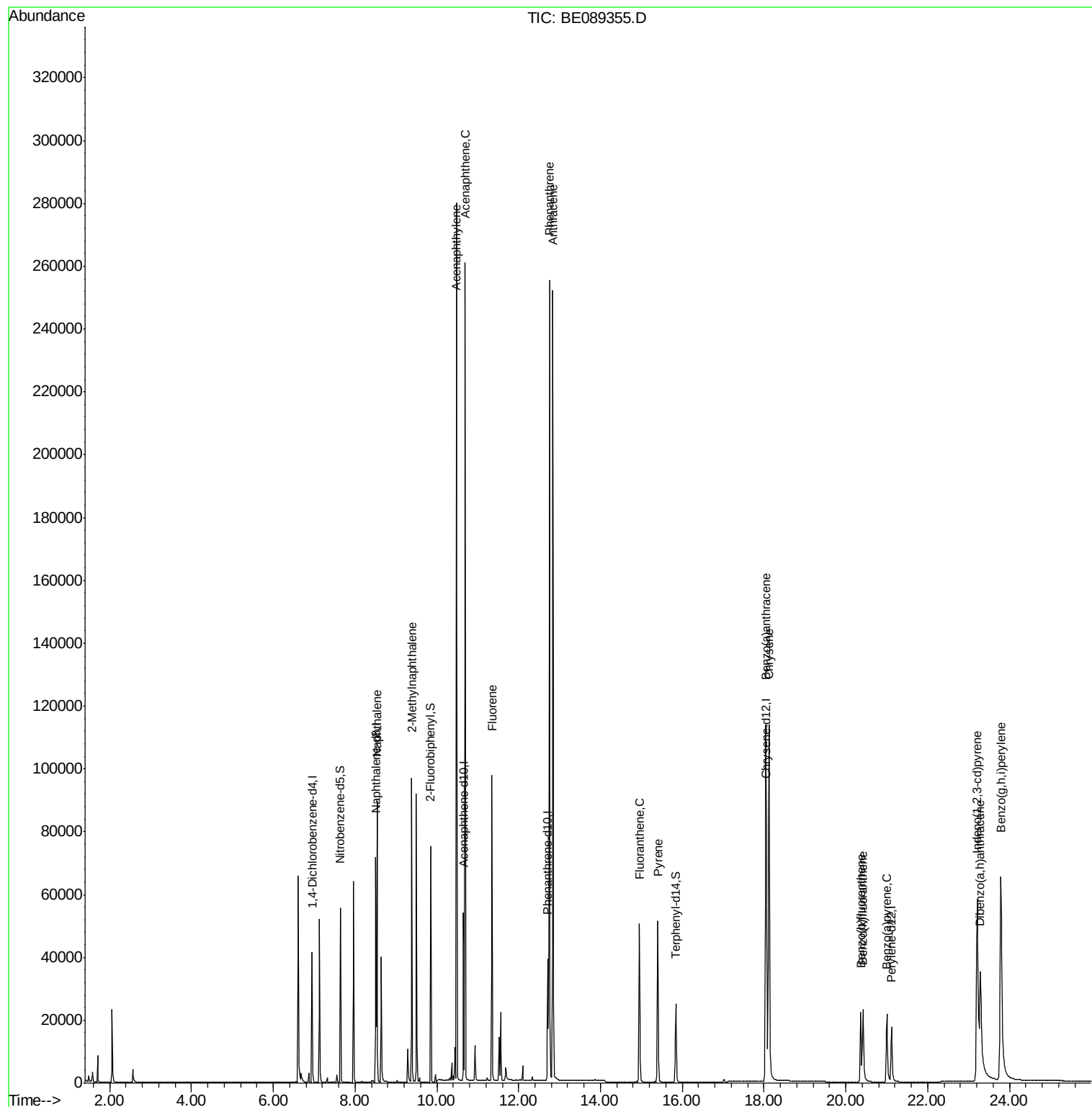
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	12217	5.00	ng	0.00
2) Naphthalene-d8	8.51	136	49890	5.00	ng	0.00
6) Acenaphthene-d10	10.65	164	26318	5.00	ng	0.00
11) Phenanthrene-d10	12.72	188	43046	5.00	ng	0.00
15) Chrysene-d12	18.06	240	26446	5.00	ng	0.00
21) Perylene-d12	21.12	264	26681	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	7.64	82	23761	6.85	ng	0.00
7) 2-Fluorobiphenyl	9.85	172	44006	6.13	ng	0.00
17) Terphenyl-d14	15.85	244	33895	7.24	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	8.54	128	68464	6.09	ng	98
5) 2-Methylnaphthalene	9.39	142	42823	6.10	ng	97
8) Acenaphthylene	10.47	152	256587	5.70	ng	99
9) Acenaphthene	10.69	154	37244	5.31	ng	95
10) Fluorene	11.34	166	43071	5.73	ng	100
12) Phenanthrene	12.75	178	241993	5.39	ng	98
13) Anthracene	12.84	178	247447	5.71	ng	98
14) Fluoranthene	14.95	202	51091	5.15	ng	99
16) Pyrene	15.40	202	52079	6.00	ng	98
18) Benzo(a)anthracene	18.05	228	140870	5.25	ng	99
19) Chrysene	18.12	228	147761	5.49	ng	98
20) Indeno(1,2,3-cd)pyrene	23.21	276	110607	4.29	ng	100
22) Benzo(b)fluoranthene	20.36	252	32249	5.53	ng	99
23) Benzo(k)fluoranthene	20.42	252	40046	5.45	ng	98
24) Benzo(a)pyrene	21.00	252	34050	5.92	ng	97
25) Dibenzo(a,h)anthracene	23.30	278	30678	5.82	ng	96
26) Benzo(g,h,i)perylene	23.79	276	144820	5.46	ng	98

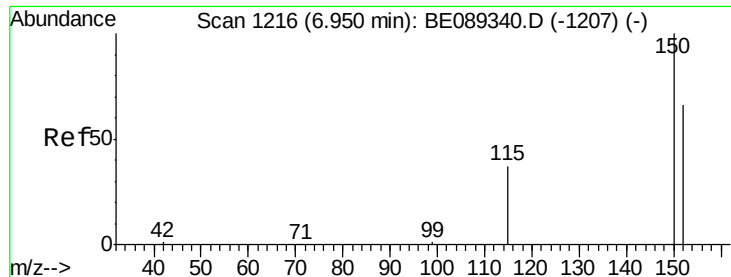
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

Instrument :

BNA_E

ClientSampleId :

PB81206BS

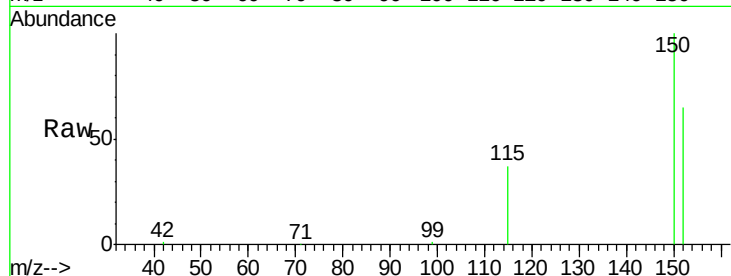
Tgt Ion:152 Resp: 12217

Ion Ratio Lower Upper

152 100

150 153.0 121.5 182.3

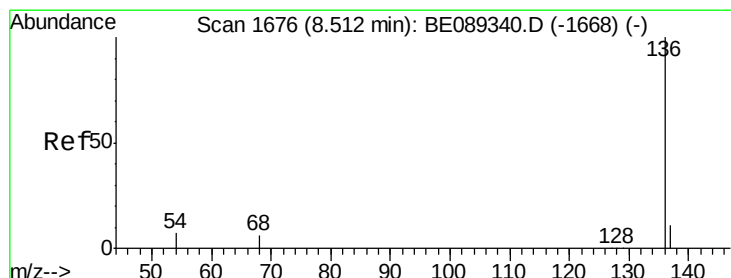
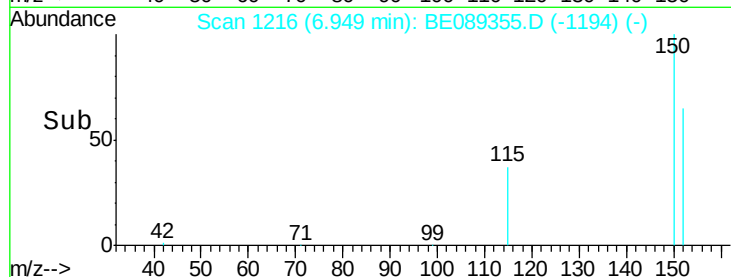
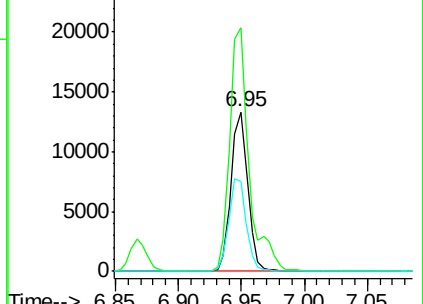
115 56.3 45.2 67.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 8.51 min Scan# 1675

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

Tgt Ion:136 Resp: 49890

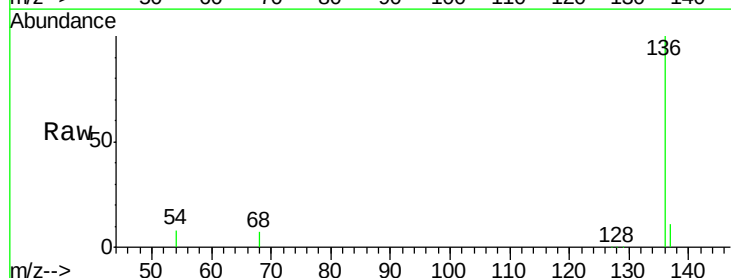
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.4

54 7.5 5.4 8.0

68 6.7 4.7 7.1

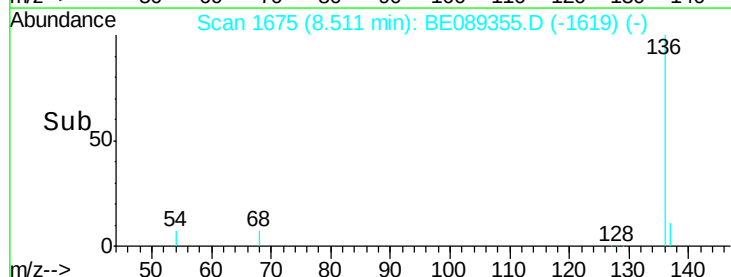
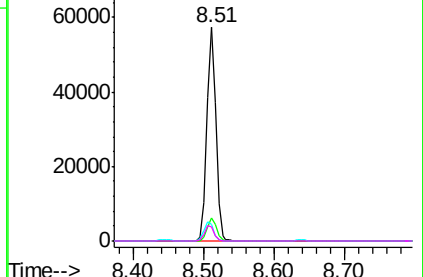


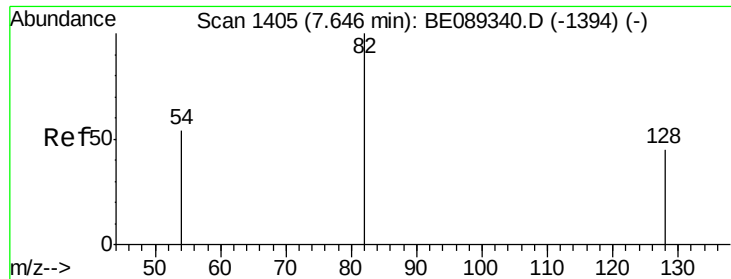
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#3

Nitrobenzene-d5

Concen: 6.85 ng

RT: 7.64 min Scan# 1404

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

Instrument :

BNA_E

ClientSampleId :

PB81206BS

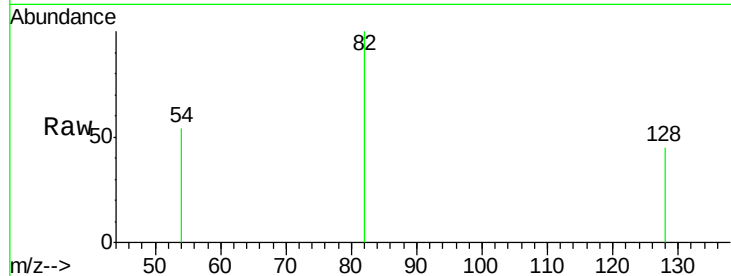
Tgt Ion: 82 Resp: 23761

Ion Ratio Lower Upper

82 100

128 44.8 36.5 54.7

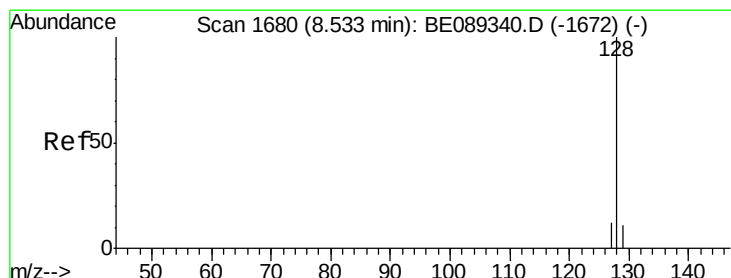
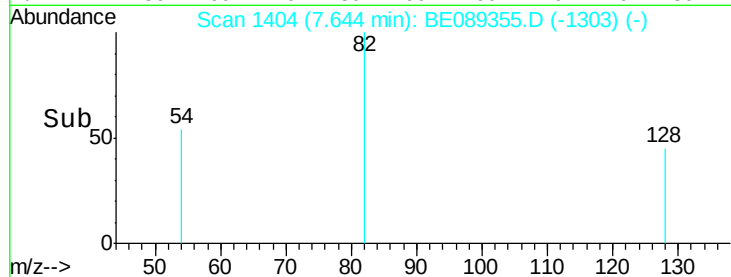
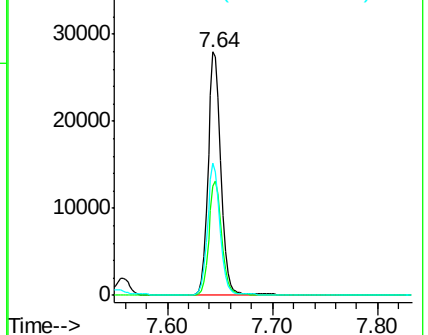
54 54.2 43.5 65.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 6.09 ng

RT: 8.54 min Scan# 1680

Delta R.T. 0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

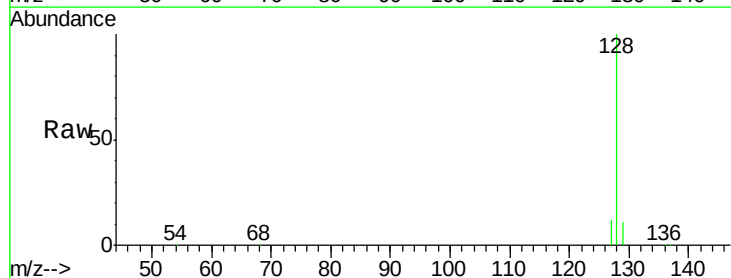
Tgt Ion: 128 Resp: 68464

Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

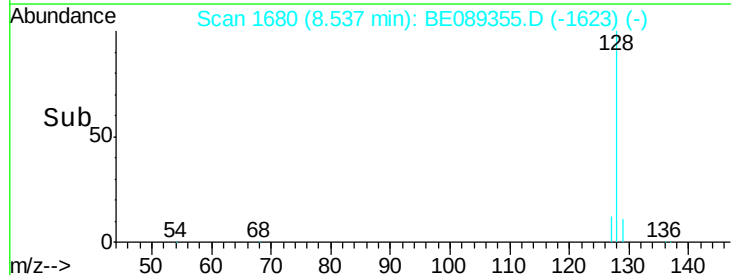
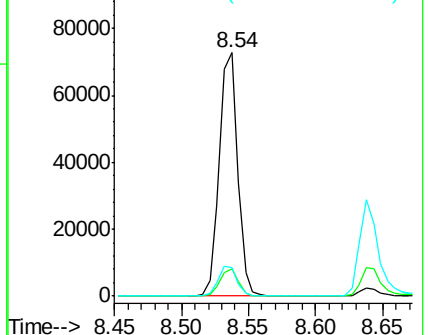
127 11.6 10.0 15.0

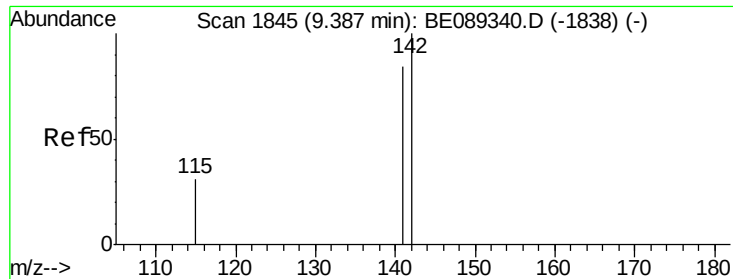


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 6.10 ng

RT: 9.39 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

Instrument :

BNA_E

ClientSampleId :

PB81206BS

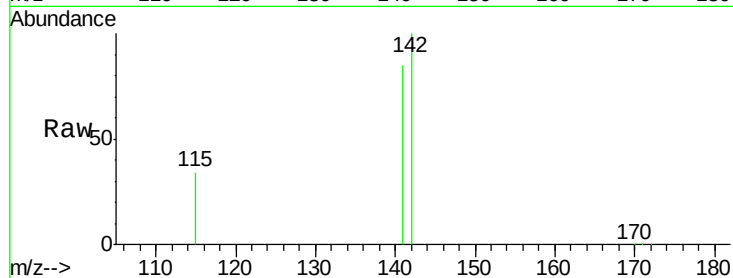
Tgt Ion:142 Resp: 42823

Ion Ratio Lower Upper

142 100

141 84.9 66.3 99.5

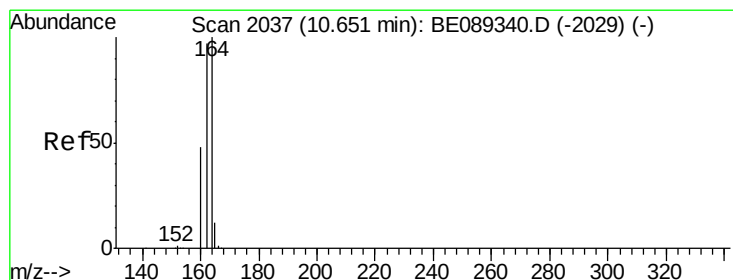
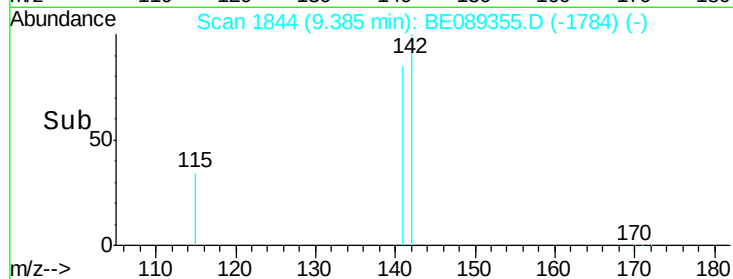
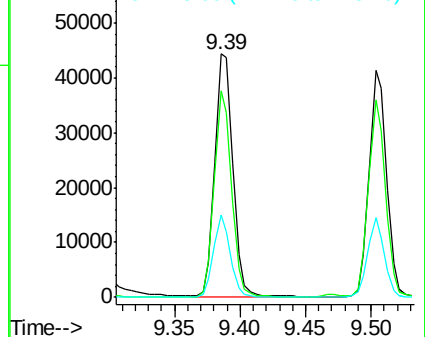
115 34.0 25.2 37.8



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.65 min Scan# 2036

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

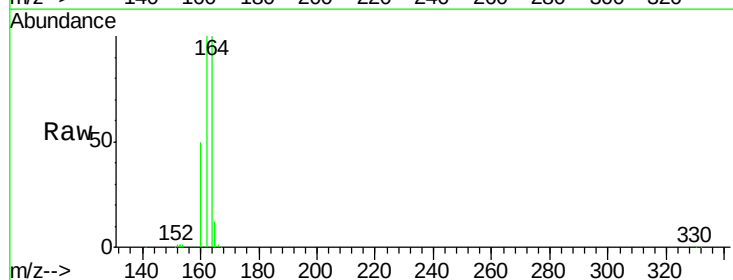
Tgt Ion:164 Resp: 26318

Ion Ratio Lower Upper

164 100

162 100.4 77.4 116.2

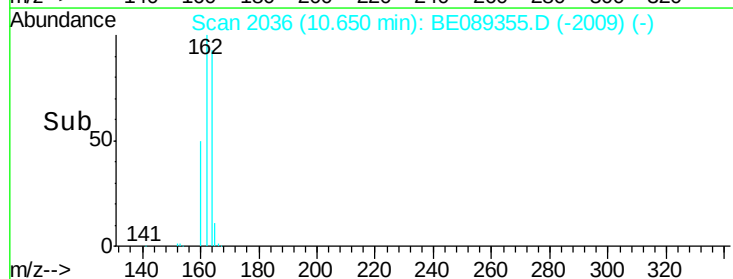
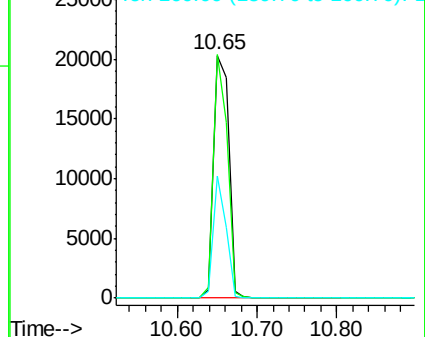
160 50.2 38.2 57.4

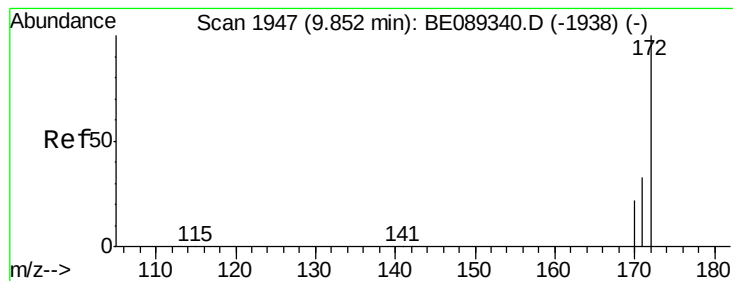


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 6.13 ng

RT: 9.85 min Scan# 1946

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

Instrument :

BNA_E

ClientSampleId :

PB81206BS

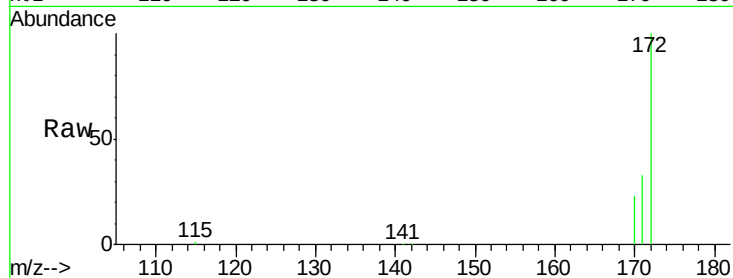
Tgt Ion:172 Resp: 44006

Ion Ratio Lower Upper

172 100

171 33.5 26.4 39.6

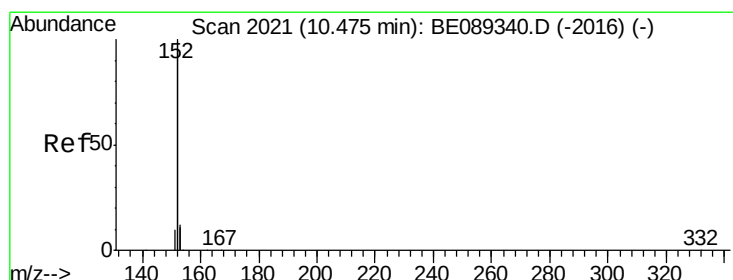
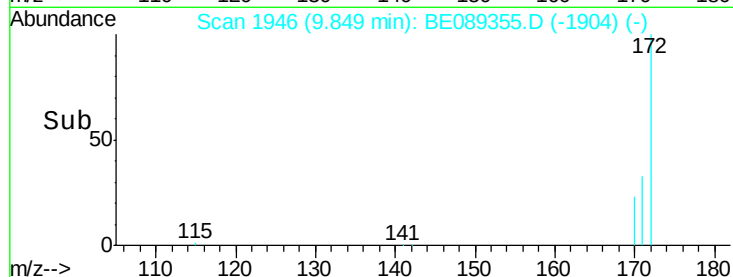
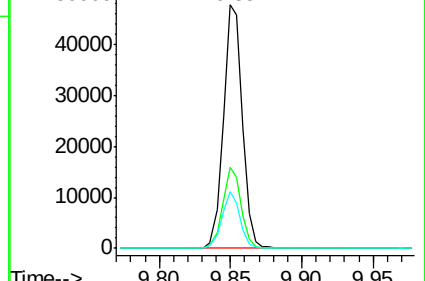
170 23.3 18.0 27.0



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



#8

Acenaphthylene

Concen: 5.70 ng

RT: 10.47 min Scan# 2020

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

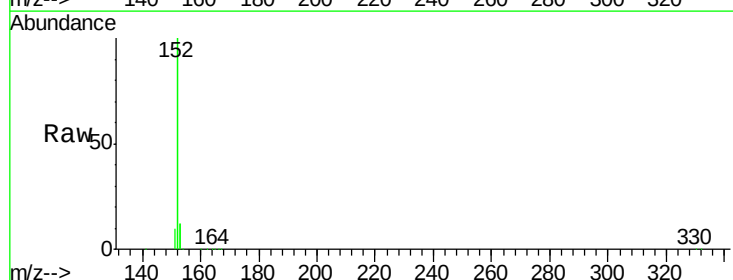
Tgt Ion:152 Resp: 256587

Ion Ratio Lower Upper

152 100

151 5.1 4.1 6.1

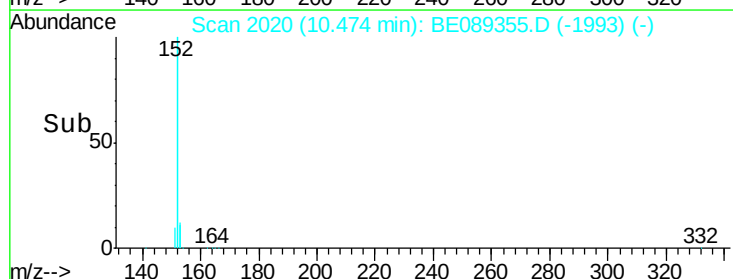
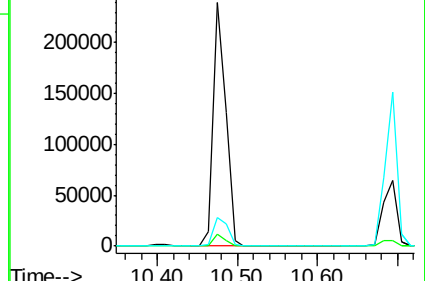
153 11.6 9.8 14.6

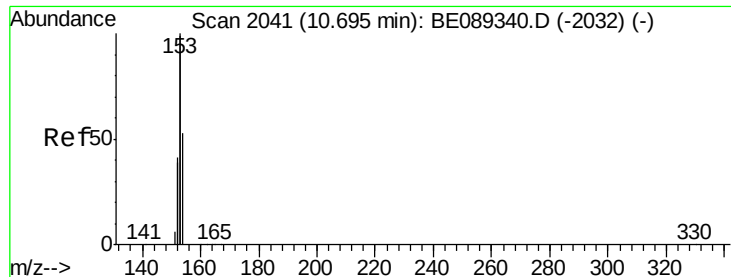


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 5.31 ng

RT: 10.69 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

Instrument :

BNA_E

ClientSampleId :

PB81206BS

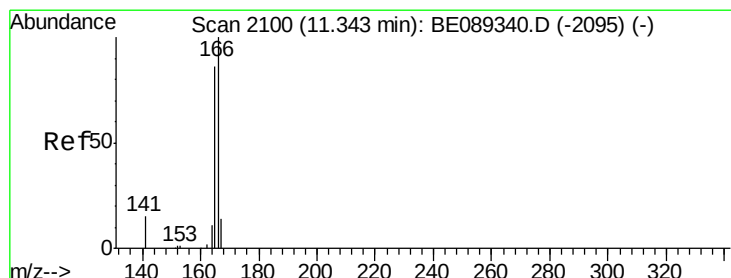
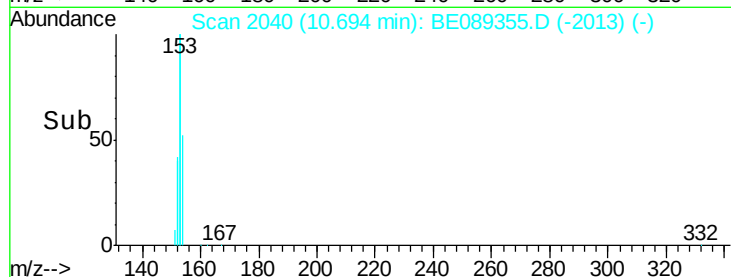
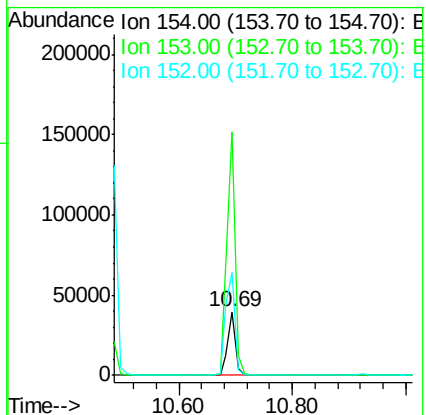
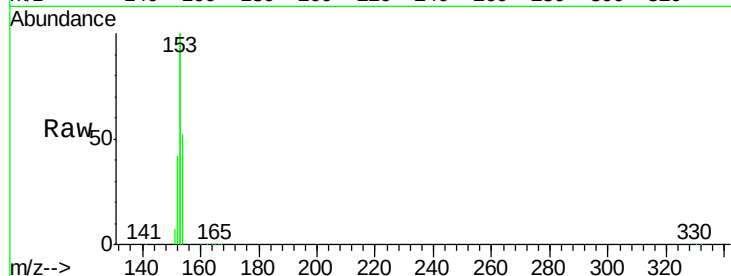
Tgt Ion:154 Resp: 37244

Ion Ratio Lower Upper

154 100

153 384.7 300.6 450.8

152 162.6 123.3 184.9



#10

Fluorene

Concen: 5.73 ng

RT: 11.34 min Scan# 2099

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

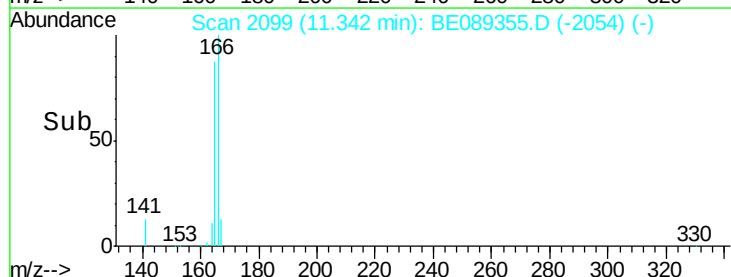
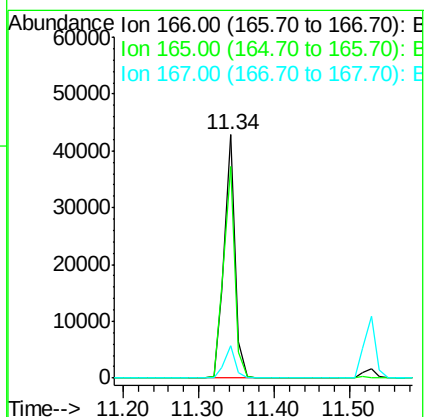
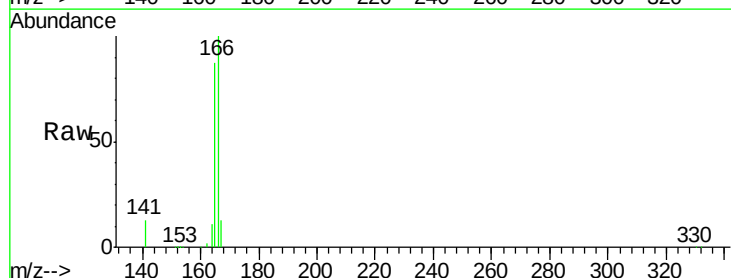
Tgt Ion:166 Resp: 43071

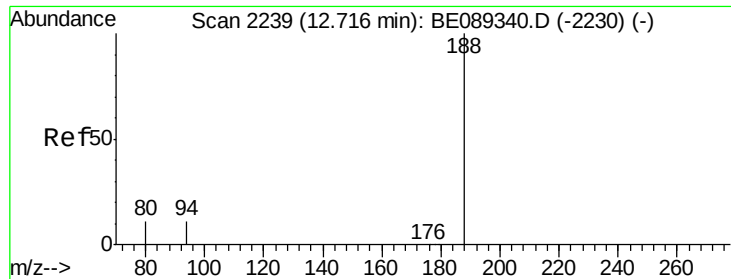
Ion Ratio Lower Upper

166 100

165 89.9 72.1 108.1

167 13.4 11.0 16.4

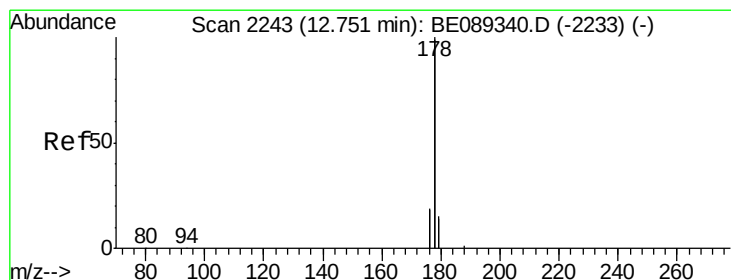
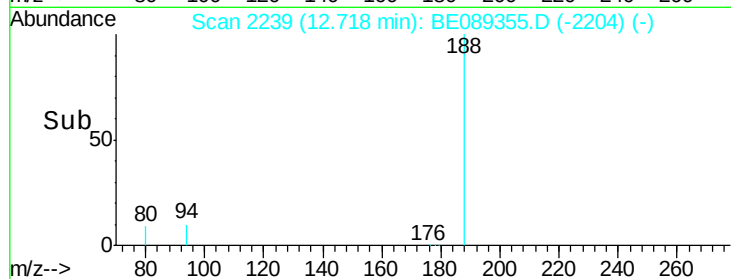
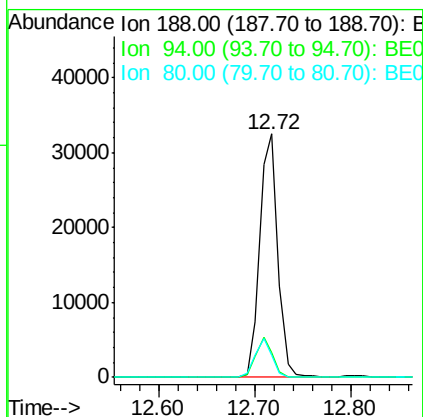
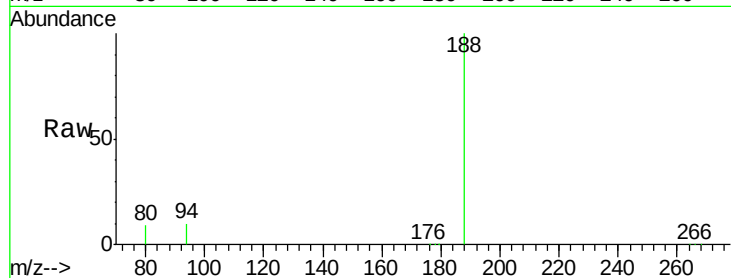




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.72 min Scan# 2239
Delta R.T. 0.00 min
Lab File: BE089355.D
Acq: 8 Jan 2015 9:07

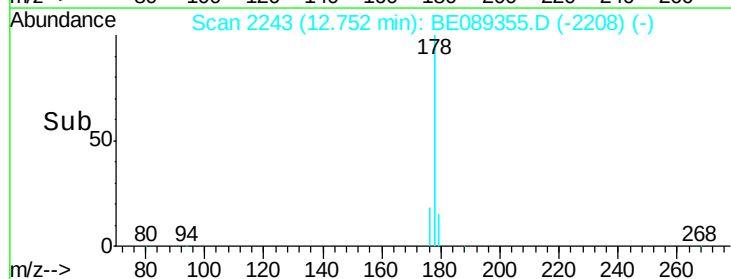
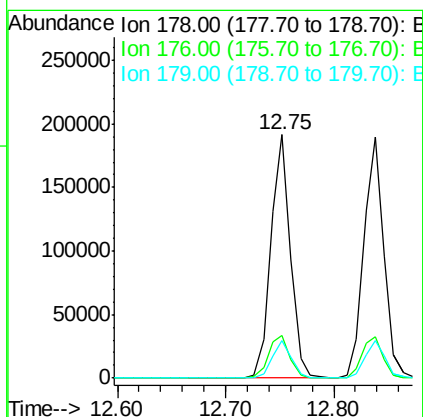
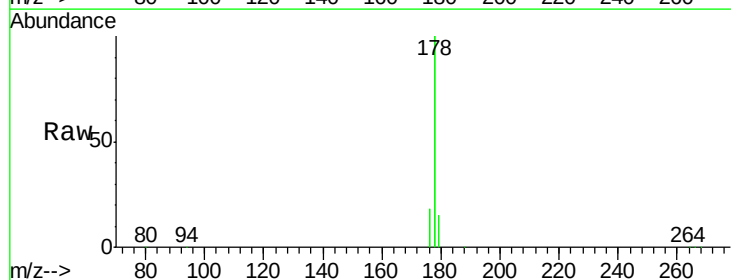
Instrument :
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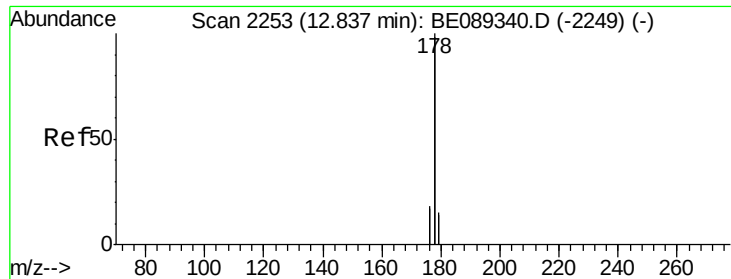
Tgt Ion:188 Resp: 43046
Ion Ratio Lower Upper
188 100
94 10.3 11.0 12.2#
80 8.9 10.1 11.1#



#12
Phenanthrene
Concen: 5.39 ng
RT: 12.75 min Scan# 2243
Delta R.T. 0.00 min
Lab File: BE089355.D
Acq: 8 Jan 2015 9:07

Tgt Ion:178 Resp: 241993
Ion Ratio Lower Upper
178 100
176 17.8 15.1 22.7
179 15.4 12.2 18.2





#13

Anthracene

Concen: 5.71 ng

RT: 12.84 min Scan# 2253

Delta R.T. 0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

Instrument :

BNA_E

ClientSampleId :

PB81206BS

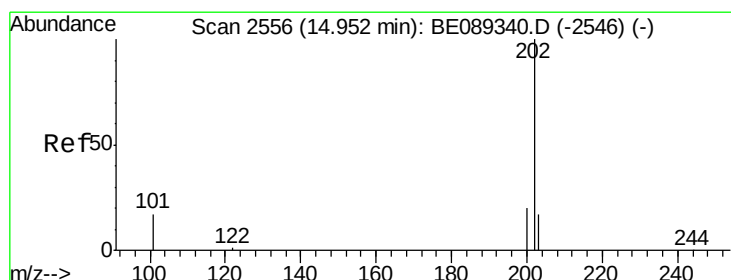
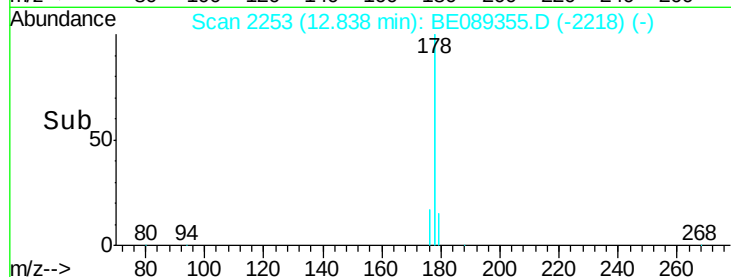
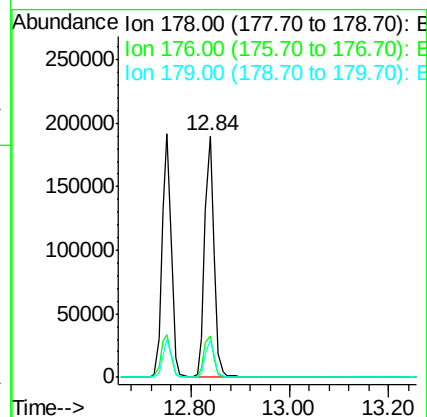
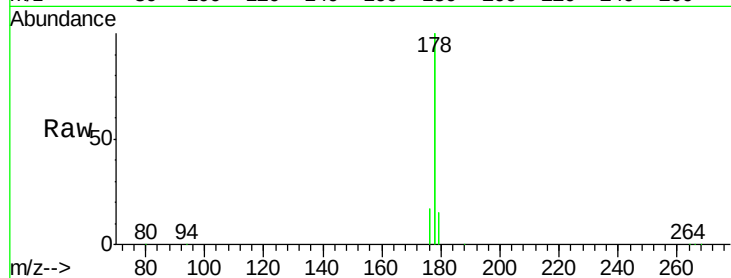
Tgt Ion:178 Resp: 247447

Ion Ratio Lower Upper

178 100

176 17.3 14.7 22.1

179 15.5 12.0 18.0



#14

Fluoranthene

Concen: 5.15 ng

RT: 14.95 min Scan# 2556

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

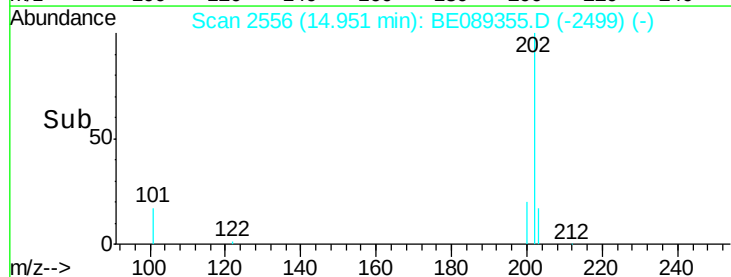
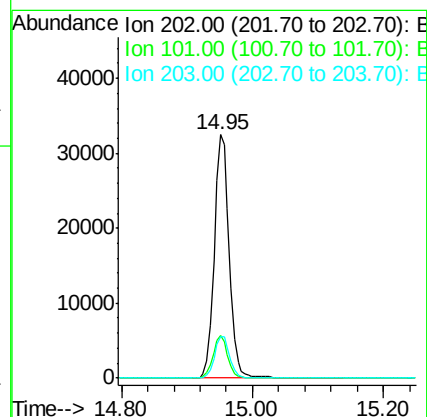
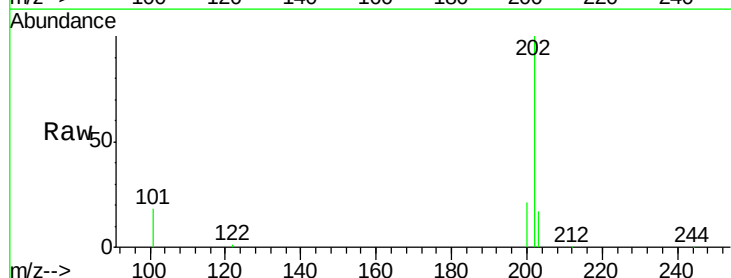
Tgt Ion:202 Resp: 51091

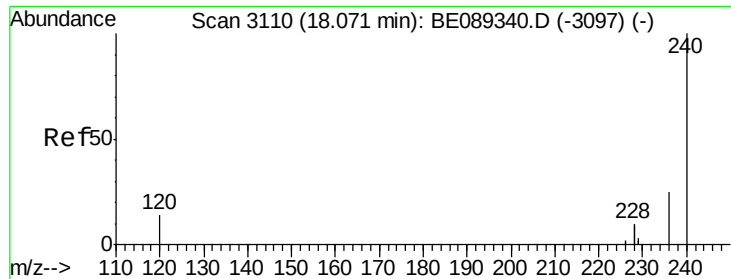
Ion Ratio Lower Upper

202 100

101 17.6 0.0 37.9

203 17.2 0.0 37.5





#15

Chrysene-d12

Concen: 5.00 ng

RT: 18.06 min Scan# 3109

Delta R.T. -0.01 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

Instrument :

BNA_E

ClientSampleId :

PB81206BS

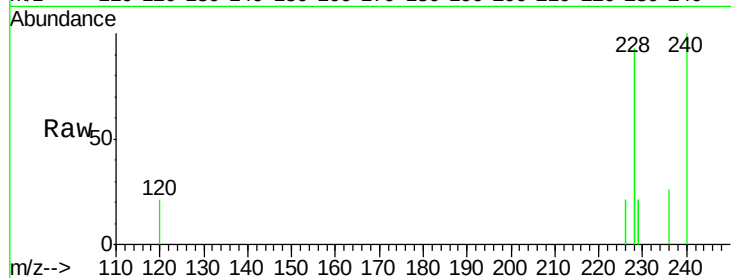
Tgt Ion:240 Resp: 26446

Ion Ratio Lower Upper

240 100

120 20.8 11.8 17.6#

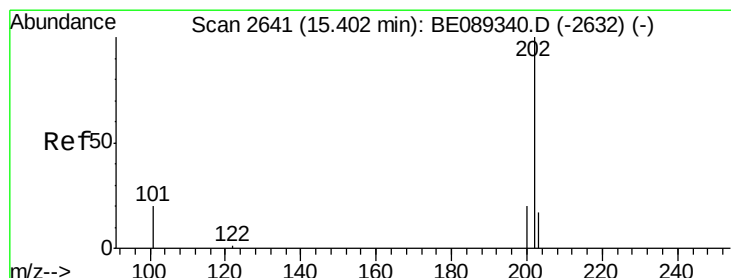
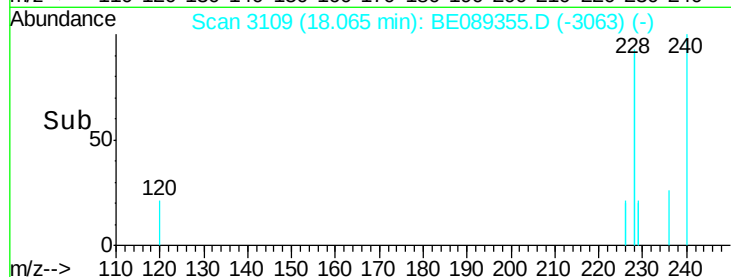
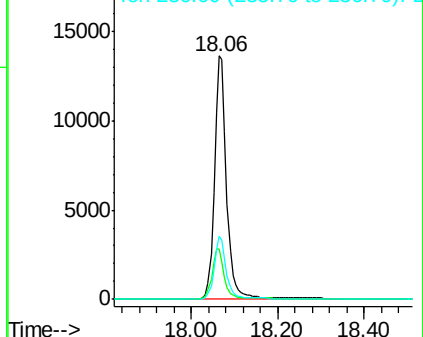
236 26.0 20.0 30.0



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



#16

Pyrene

Concen: 6.00 ng

RT: 15.40 min Scan# 2641

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

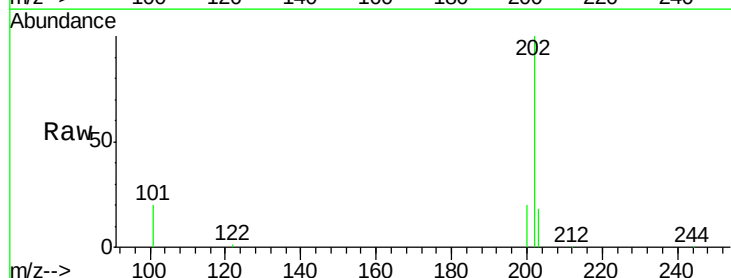
Tgt Ion:202 Resp: 52079

Ion Ratio Lower Upper

202 100

200 20.1 16.8 25.2

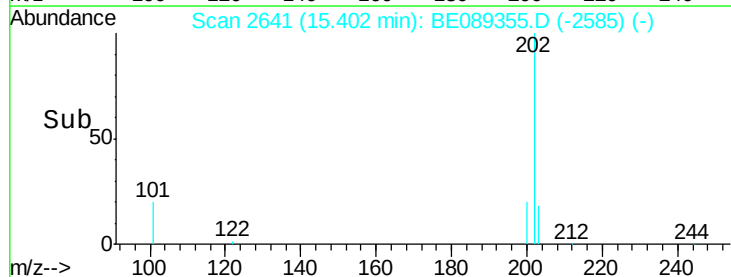
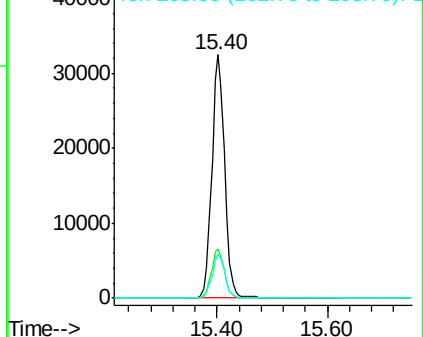
203 18.0 14.0 21.0

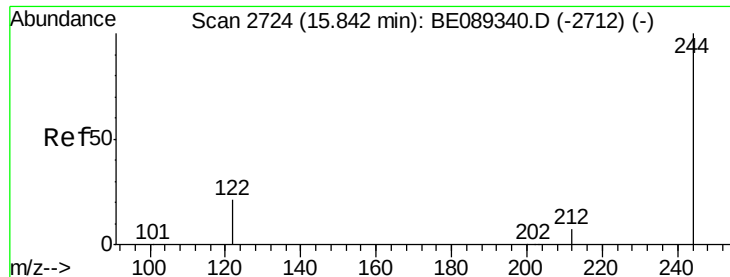


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

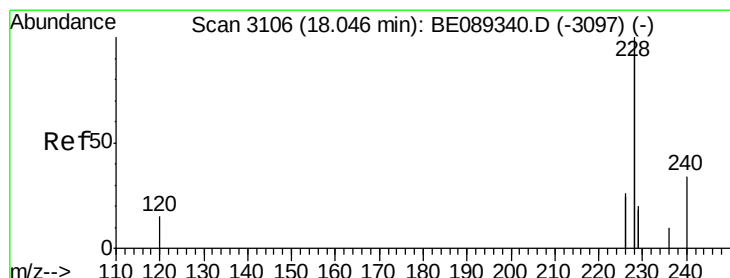
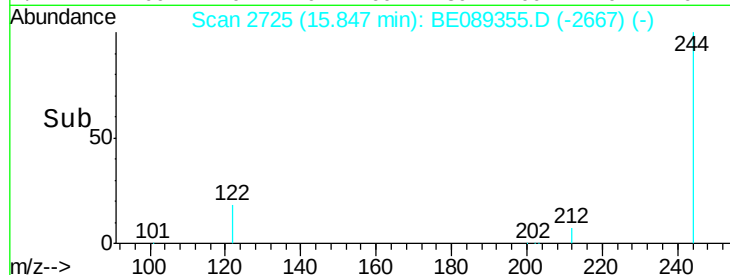
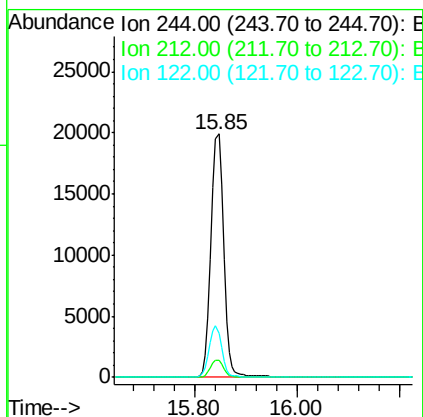
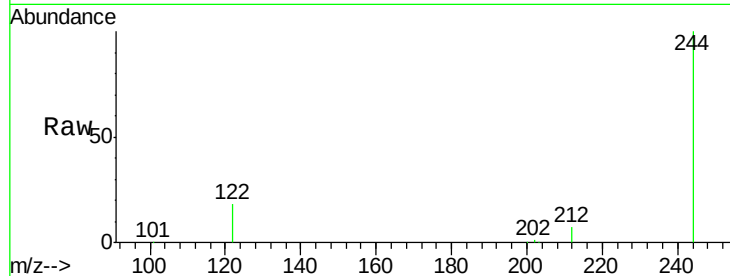




#17
 Terphenyl-d14
 Concen: 7.24 ng
 RT: 15.85 min Scan# 2725
 Delta R.T. 0.00 min
 Lab File: BE089355.D
 Acq: 8 Jan 2015 9:07

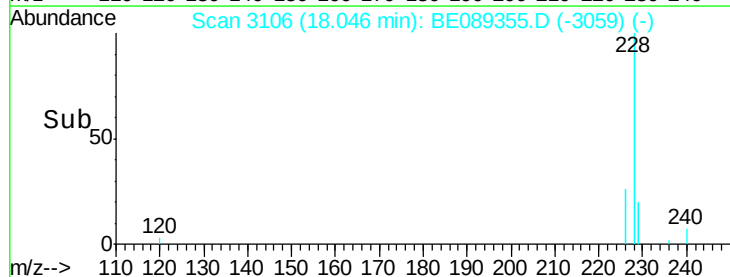
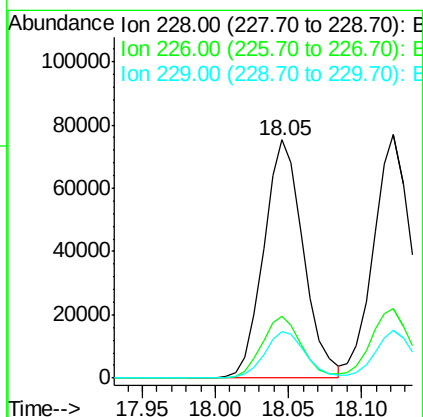
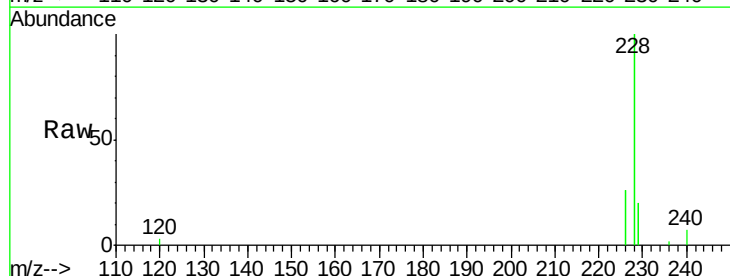
Instrument :
 BNA_E
 ClientSampleId :
 PB81206BS

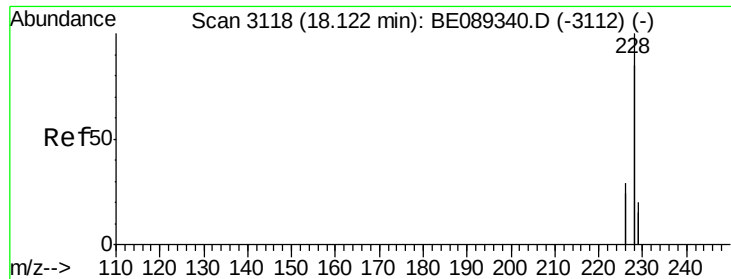
Tgt Ion:244 Resp: 33895
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.3 9.5
 122 18.3 17.7 26.5



#18
 Benzo(a)anthracene
 Concen: 5.25 ng
 RT: 18.05 min Scan# 3106
 Delta R.T. -0.00 min
 Lab File: BE089355.D
 Acq: 8 Jan 2015 9:07

Tgt Ion:228 Resp: 140870
 Ion Ratio Lower Upper
 228 100
 226 26.2 21.0 31.6
 229 19.5 16.0 24.0





#19

Chrysene

Concen: 5.49 ng

RT: 18.12 min Scan# 3118

Delta R.T. -0.00 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

Instrument :

BNA_E

ClientSampleId :

PB81206BS

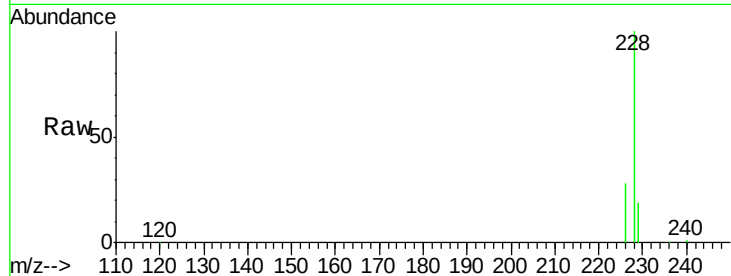
Tgt Ion:228 Resp: 147761

Ion Ratio Lower Upper

228 100

226 28.4 23.5 35.3

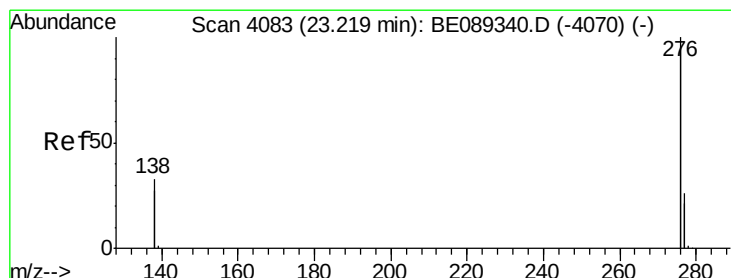
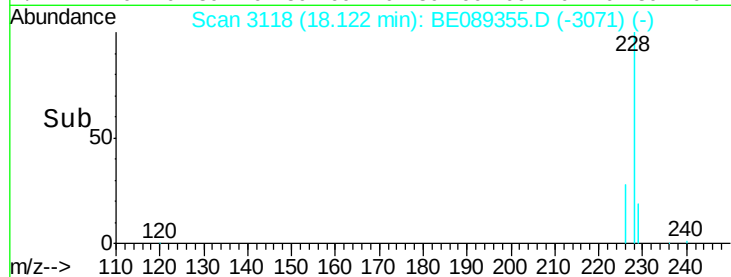
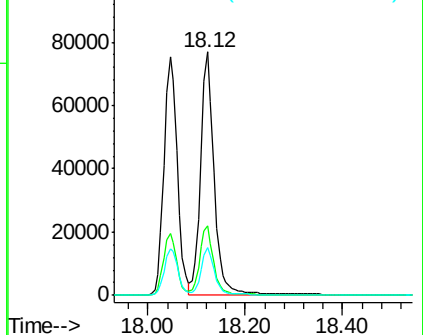
229 19.4 16.1 24.1



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



#20

Indeno(1,2,3-cd)pyrene

Concen: 4.29 ng

RT: 23.21 min Scan# 4081

Delta R.T. -0.01 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

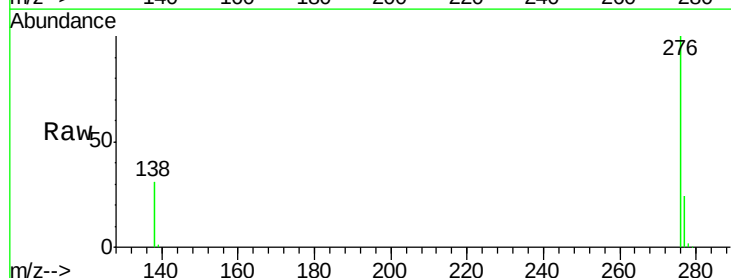
Tgt Ion:276 Resp: 110607

Ion Ratio Lower Upper

276 100

138 29.9 23.8 35.8

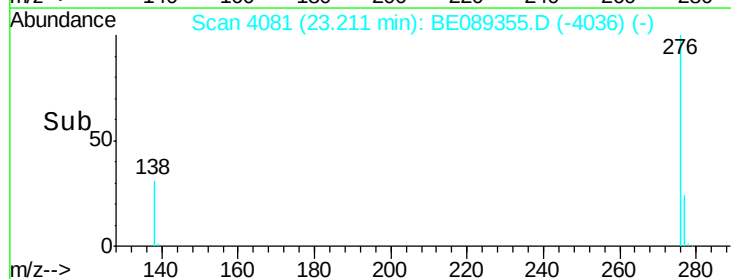
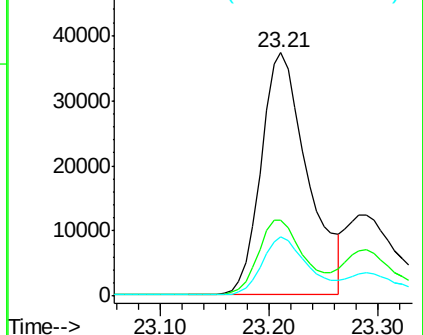
277 22.9 18.2 27.4

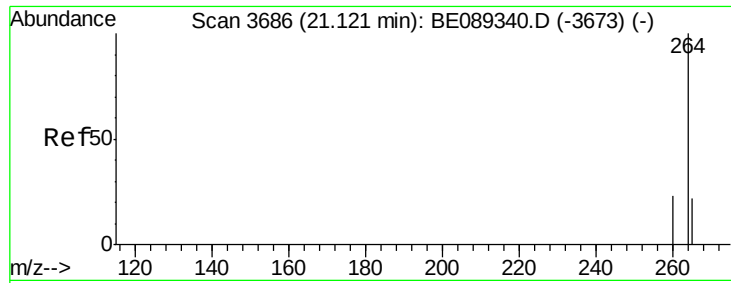


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

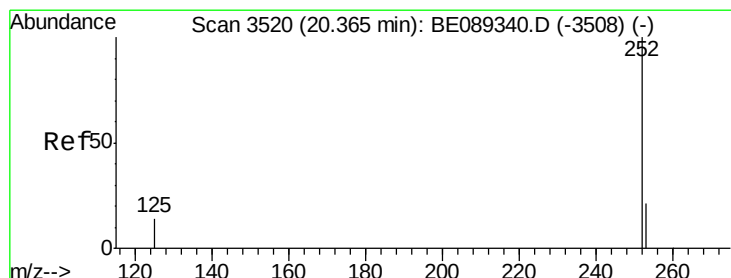
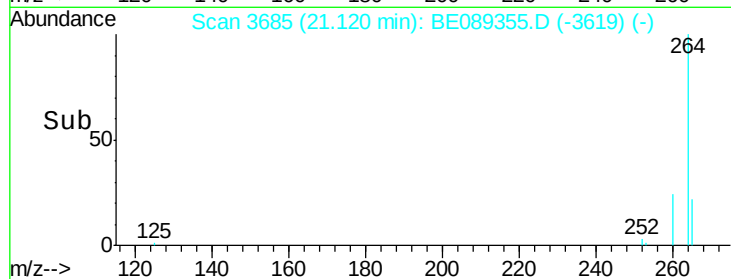
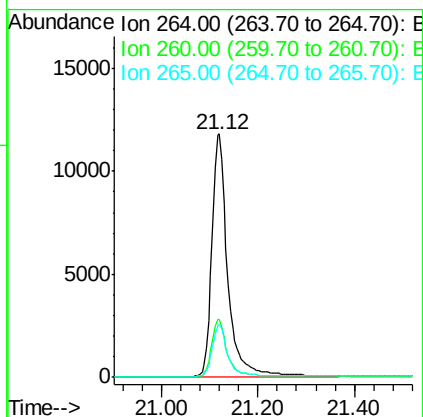
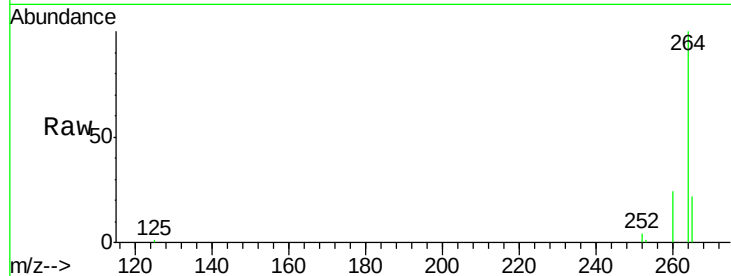




#21
Perylene-d12
 Concen: 5.00 ng
 RT: 21.12 min Scan# 3685
 Delta R.T. -0.00 min
 Lab File: BE089355.D
 Acq: 8 Jan 2015 9:07

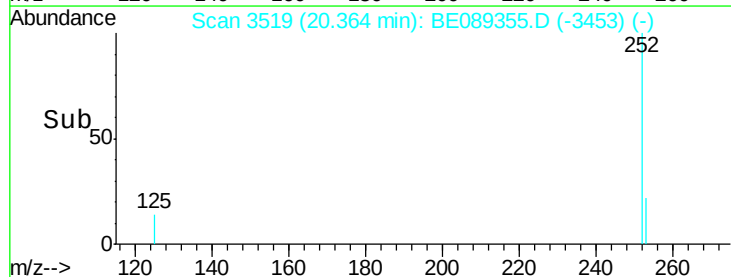
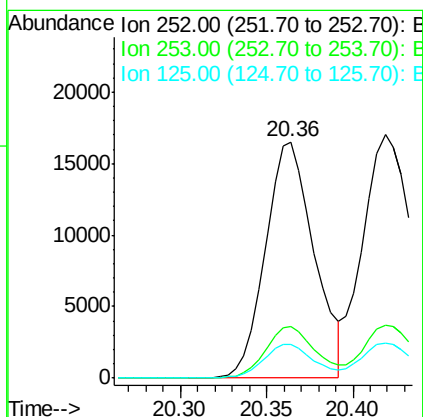
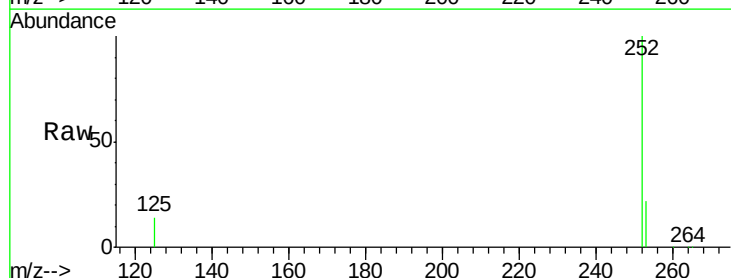
Instrument :
 BNA_E
 ClientSampleId :
 PB81206BS

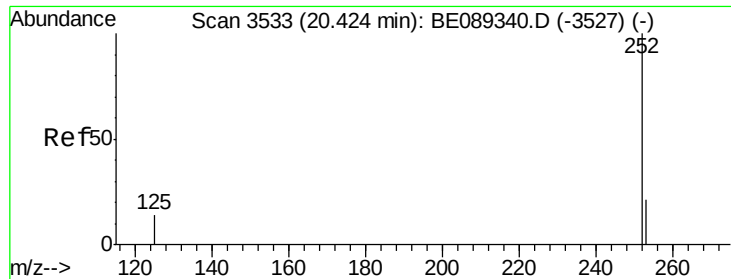
Tgt Ion: 264 Resp: 26681
 Ion Ratio Lower Upper
 264 100
 260 23.8 18.9 28.3
 265 21.8 17.4 26.2



#22
Benzo(b)fluoranthene
 Concen: 5.53 ng
 RT: 20.36 min Scan# 3519
 Delta R.T. -0.00 min
 Lab File: BE089355.D
 Acq: 8 Jan 2015 9:07

Tgt Ion: 252 Resp: 32249
 Ion Ratio Lower Upper
 252 100
 253 22.1 17.8 26.6
 125 14.4 12.6 18.8





#23

Benzo(k)fluoranthene

Concen: 5.45 ng

RT: 20.42 min Scan# 3531

Delta R.T. -0.01 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

Instrument :

BNA_E

ClientSampleId :

PB81206BS

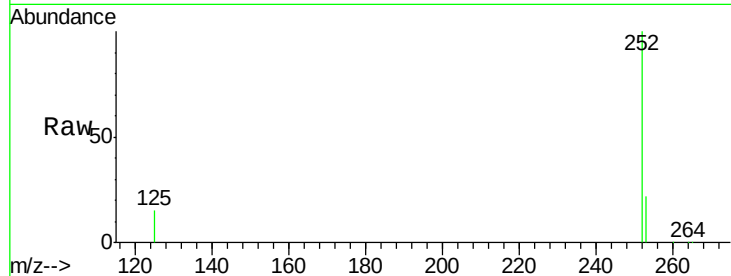
Tgt Ion:252 Resp: 40046

Ion Ratio Lower Upper

252 100

253 22.0 18.0 27.0

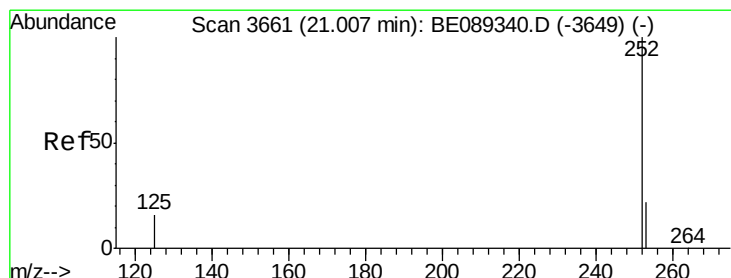
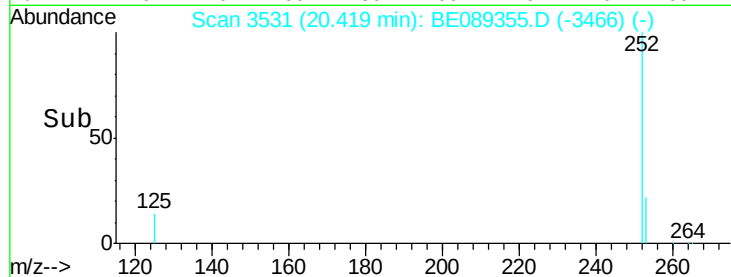
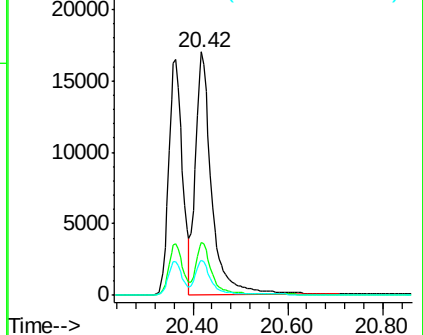
125 14.5 12.4 18.6



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



#24

Benzo(a)pyrene

Concen: 5.92 ng

RT: 21.00 min Scan# 3659

Delta R.T. -0.01 min

Lab File: BE089355.D

Acq: 8 Jan 2015 9:07

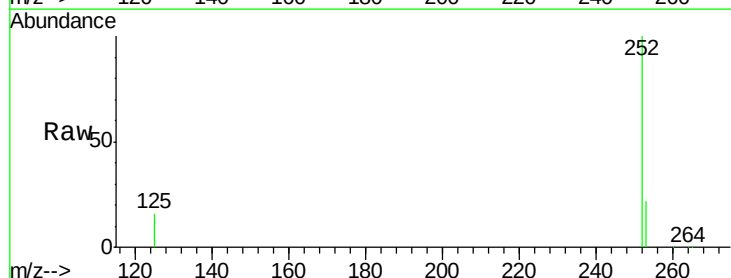
Tgt Ion:252 Resp: 34050

Ion Ratio Lower Upper

252 100

253 21.7 18.3 27.5

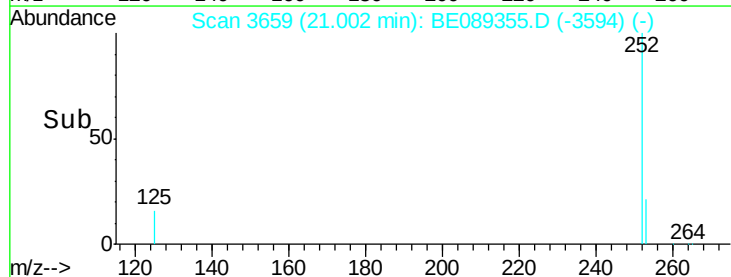
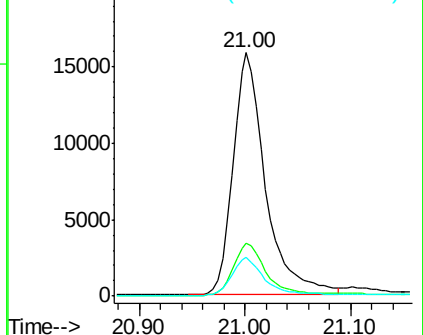
125 15.9 13.8 20.8

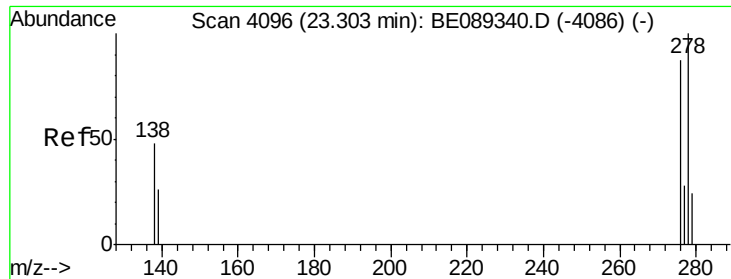


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



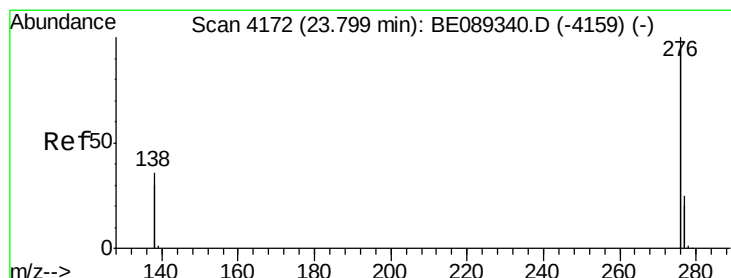
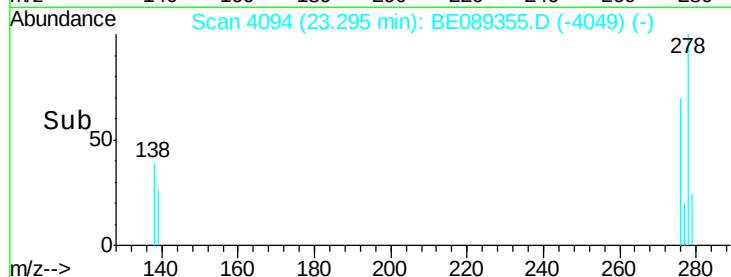
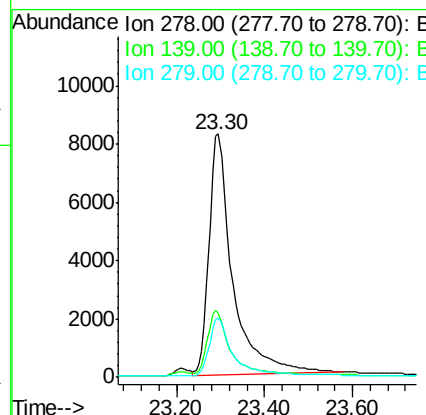
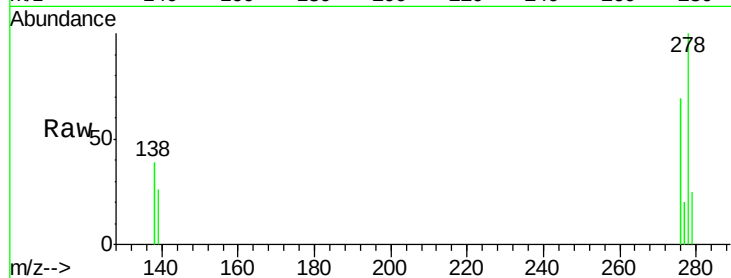


#25
Dibenzo(a,h)anthracene
Concen: 5.82 ng
RT: 23.30 min Scan# 4094
Delta R.T. -0.01 min
Lab File: BE089355.D
Acq: 8 Jan 2015 9:07

Instrument :
BNA_E
ClientSampleId :
PB81206BS

Tgt Ion: 278 Resp: 30678

Ion	Ratio	Lower	Upper
278	100		
139	26.3	22.9	34.3
279	24.5	20.8	31.2



#26
Benzo(g,h,i)perylene
Concen: 5.46 ng
RT: 23.79 min Scan# 4170
Delta R.T. -0.01 min
Lab File: BE089355.D
Acq: 8 Jan 2015 9:07

Tgt Ion: 276 Resp: 144820

Ion	Ratio	Lower	Upper
276	100		
277	24.0	20.0	30.0
138	34.1	28.5	42.7

