

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020515\
 Data File : BE089512.D
 Acq On : 5 Feb 2015 20:52
 Operator : TP/IZ
 Sample : PB81591BL
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81591BL

Quant Time: Feb 06 04:10:53 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE020515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 06 03:21:38 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.49	152	24343	5.00	ng	0.00
2) Naphthalene-d8	12.40	136	96146	5.00	ng	0.00
6) Acenaphthene-d10	16.58	164	42164	5.00	ng	-0.01
11) Phenanthrene-d10	19.90	188	81713	5.00	ng	0.00
16) Chrysene-d12	23.76	240	92234	5.00	ng	0.00
22) Perylene-d12	25.46	264	92304	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.75	82	54846	7.48	ng	0.00
7) 2-Fluorobiphenyl	15.03	172	88474	6.66	ng	0.00
18) Terphenyl-d14	22.40	244	115725	7.21	ng	0.00

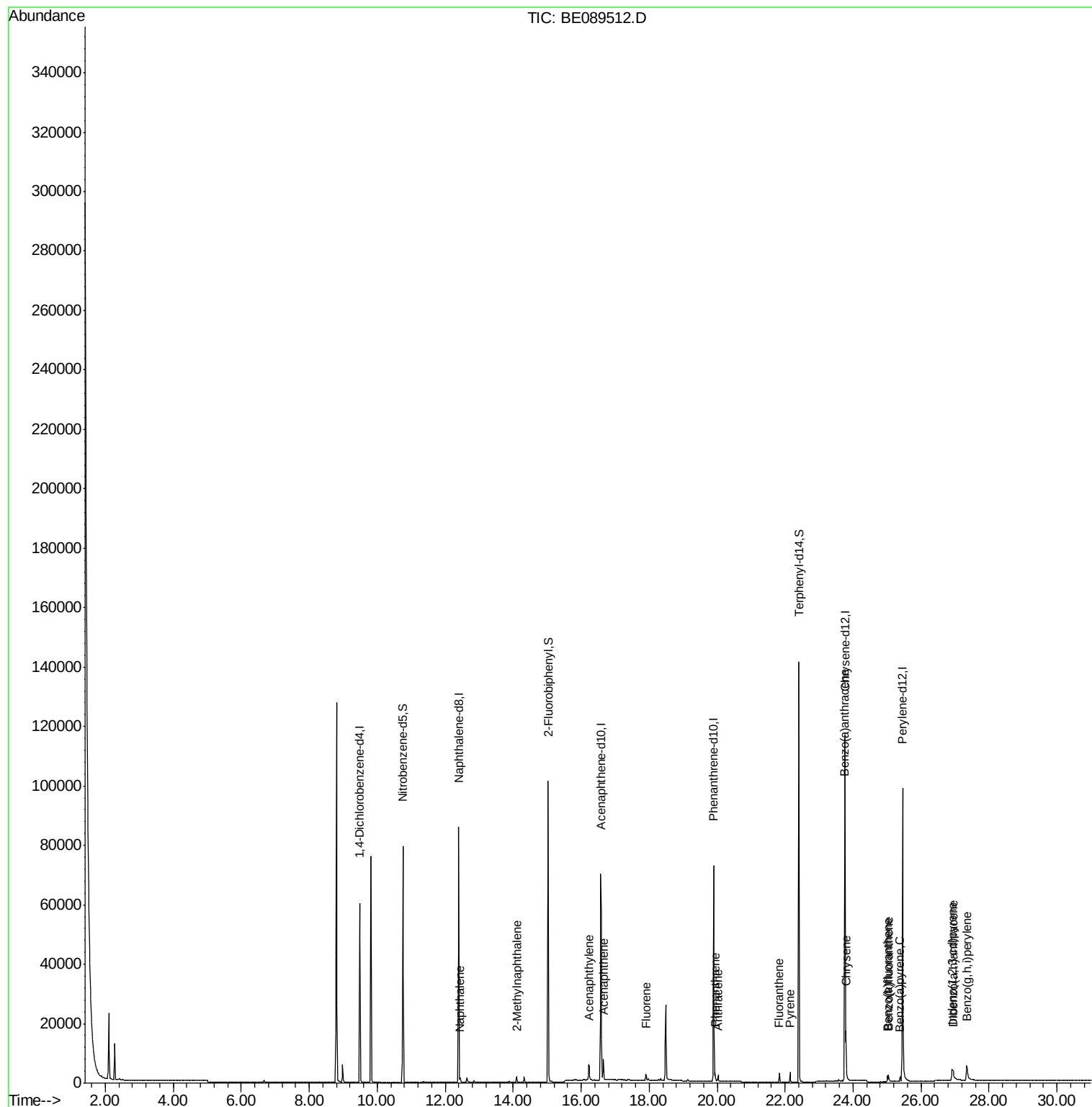
Target Compounds						Ovalue
4) Naphthalene	12.44	128	1697	0.07	ng	# 90
5) 2-Methylnaphthalene	14.10	142	1224	0.08	ng	94
8) Acenaphthylene	16.23	152	7387	0.08	ng	96
9) Acenaphthene	16.65	154	1309	0.09	ng	88
10) Fluorene	17.91	166	1503	0.12	ng	98
13) Phenanthrene	19.94	178	2555	0.10	ng	98
14) Anthracene	20.03	178	2061	0.13	ng	98
15) Fluoranthene	21.83	202	2178	0.13	ng	100
17) Pyrene	22.15	202	2491	0.09	ng	99
19) Benzo(a)anthracene	23.75	228	9984	0.12	ng	98
20) Chrysene	23.79	228	11899	0.11	ng	94
21) Indeno(1,2,3-cd)pyrene	26.91	276	9893	0.14	ng	# 80
23) Benzo(b)fluoranthene	25.02	252	1924	0.17	ng	# 86
24) Benzo(k)fluoranthene	25.04	252	2911	0.10	ng	# 92
25) Benzo(a)pyrene	25.39	252	2024	0.17	ng	# 89
26) Dibenzo(a,h)anthracene	26.95	278	1788	0.13	ng	# 87
27) Benzo(g,h,i)perylene	27.35	276	10508	0.13	ng	91

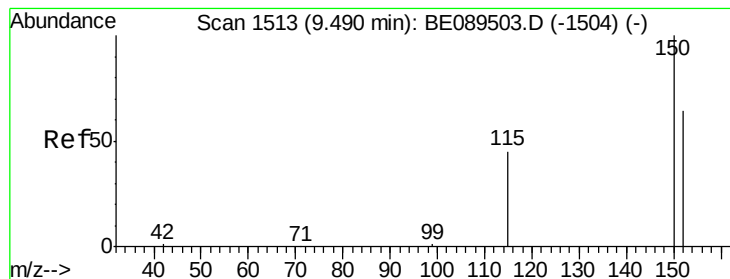
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.49 min Scan# 1513

Delta R.T. -0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

PB81591BL

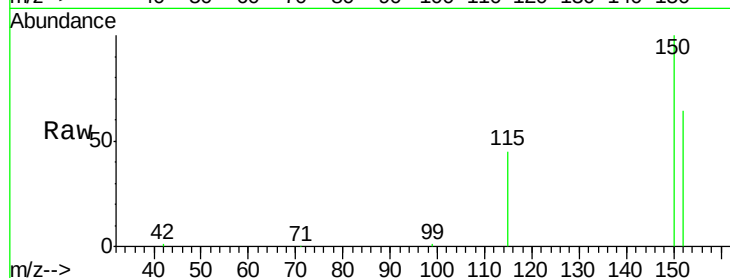
Tot Ion:152 Resp: 24343

Ion Ratio Lower Upper

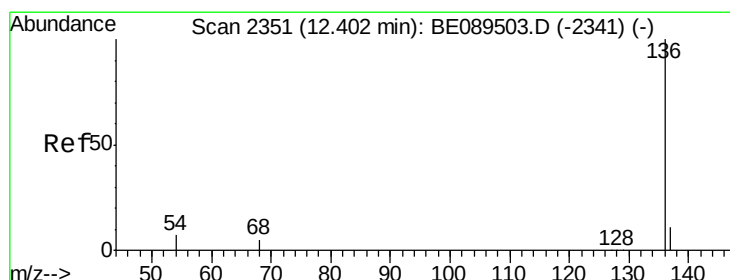
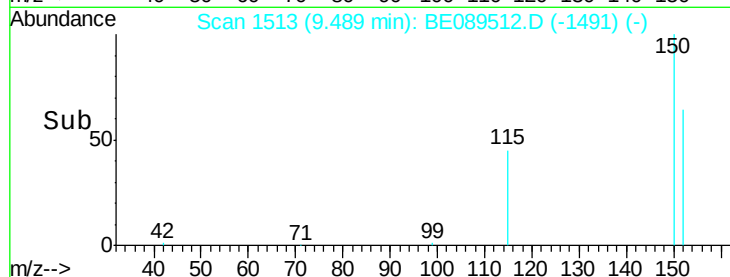
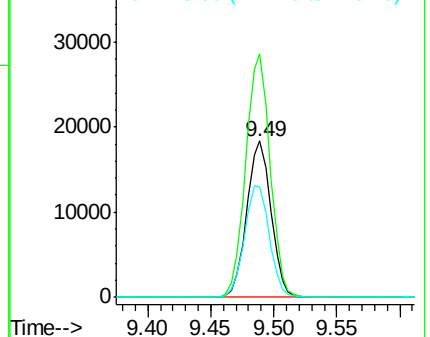
152 100

150 156.1 125.0 187.6

115 70.9 56.6 85.0



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: 12.40 min Scan# 2350

Delta R.T. -0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

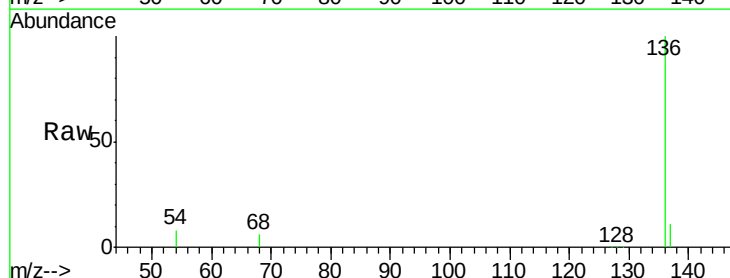
Tgt Ion:136 Resp: 96146

Ion Ratio Lower Upper

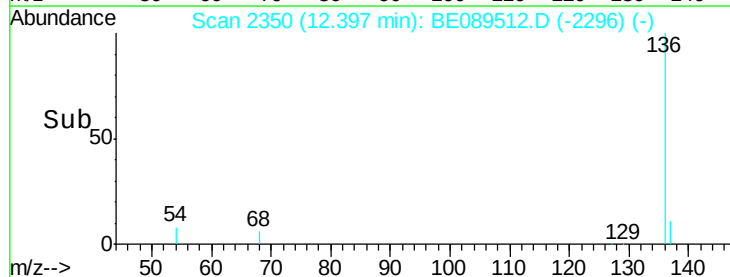
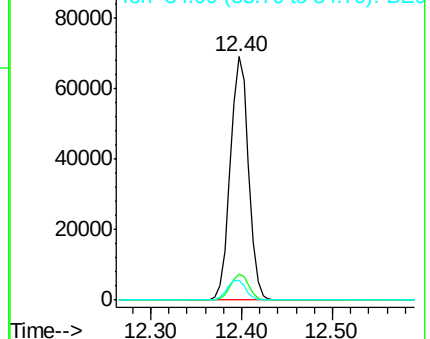
136 100

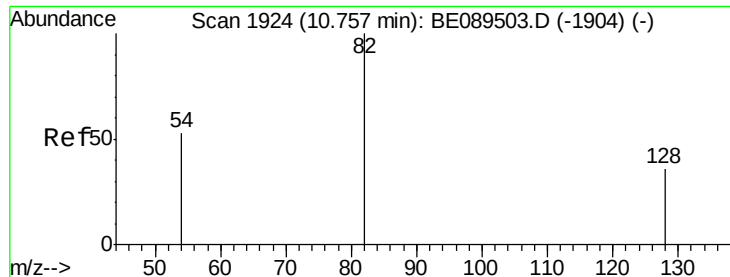
137 10.7 8.6 12.8

54 8.1 6.0 9.0



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





#3

Nitrobenzene-d5

Concen: 7.48 ng

RT: 10.75 min Scan# 1923

Delta R.T. -0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

PB81591BL

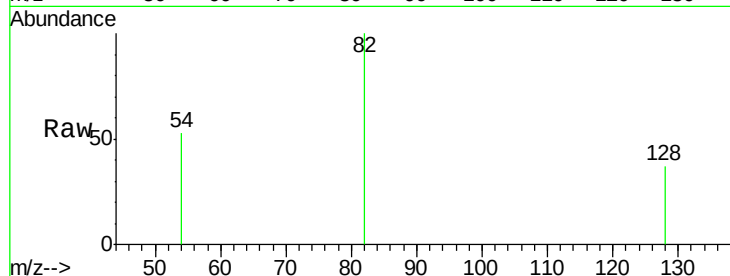
Tot Ion: 82 Resp: 54846

Ion Ratio Lower Upper

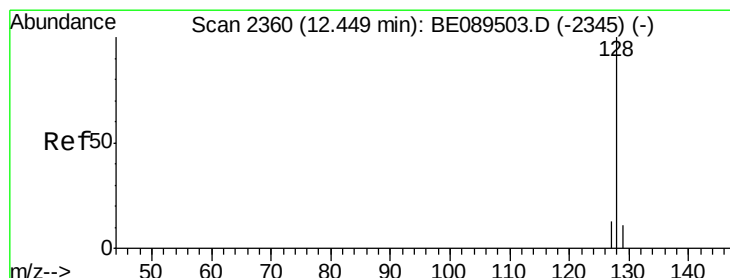
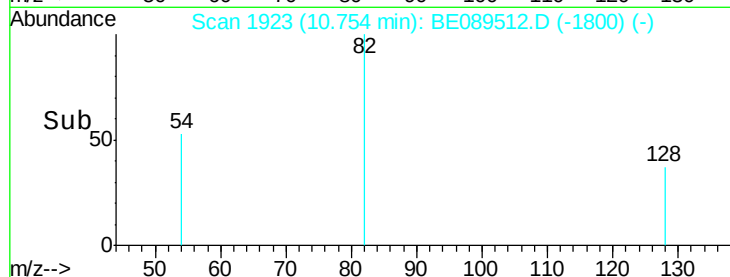
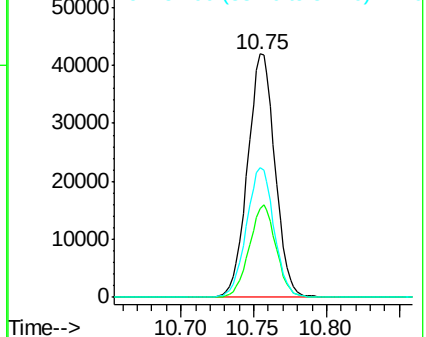
82 100

128 36.6 29.3 43.9

54 53.2 42.6 64.0



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.07 ng

RT: 12.44 min Scan# 2359

Delta R.T. -0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

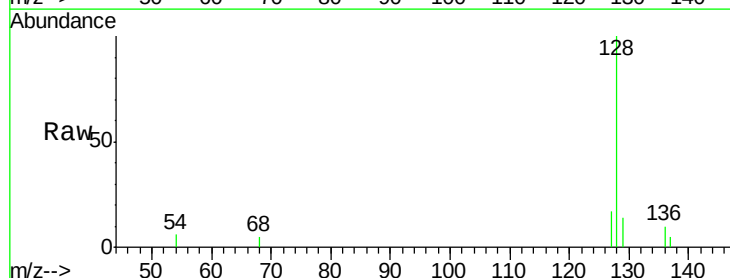
Tgt Ion: 128 Resp: 1697

Ion Ratio Lower Upper

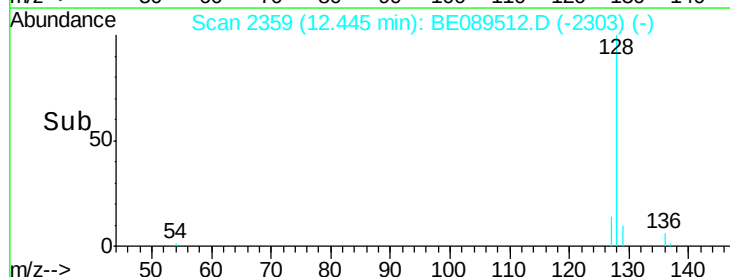
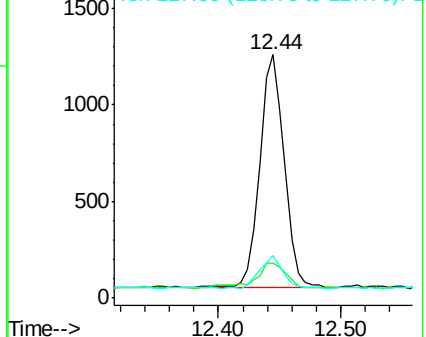
128 100

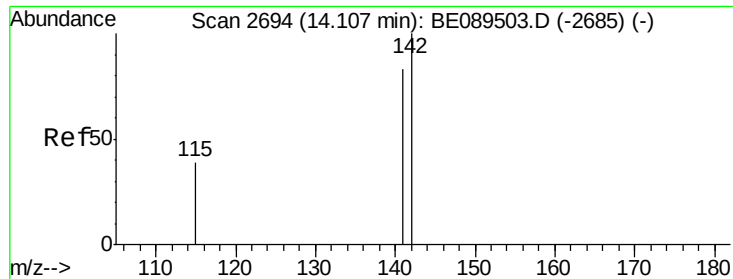
129 14.2 8.8 13.2#

127 17.4 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





#5

2-Methylnaphthalene

Concen: 0.08 ng

RT: 14.10 min Scan# 2693

Delta R.T. -0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

PB81591BL

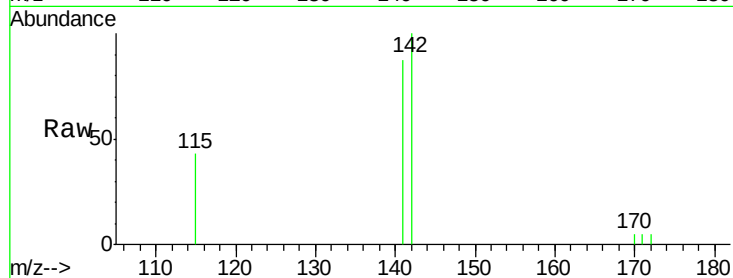
Tot Ion:142 Resp: 1224

Ion Ratio Lower Upper

142 100

141 87.4 66.3 99.5

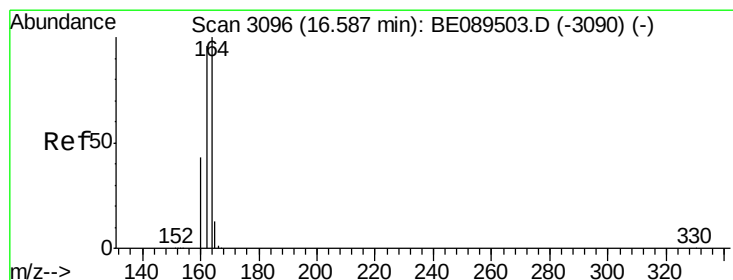
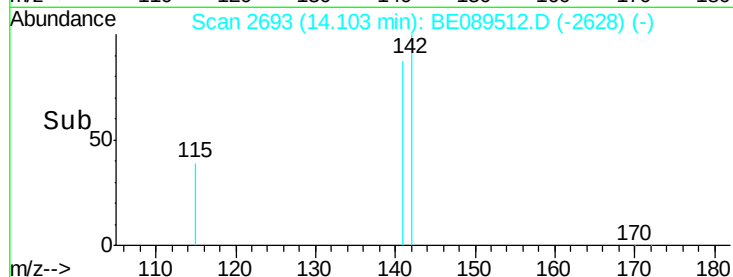
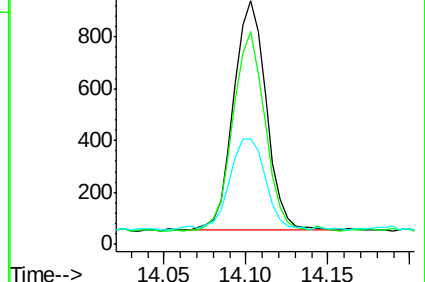
115 43.5 31.1 46.7



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: 16.58 min Scan# 3095

Delta R.T. -0.01 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

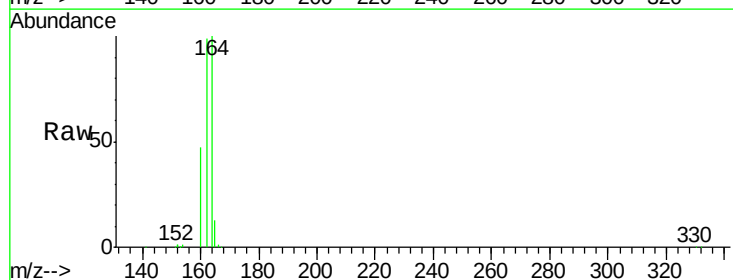
Tgt Ion:164 Resp: 42164

Ion Ratio Lower Upper

164 100

162 99.0 76.6 115.0

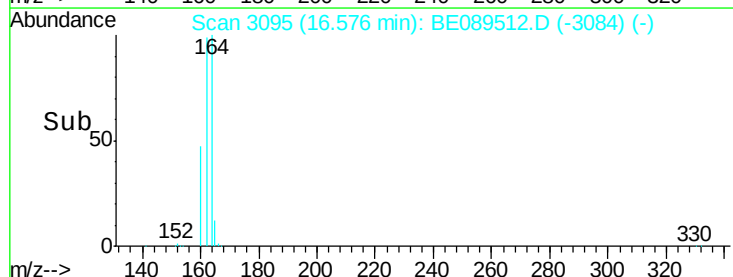
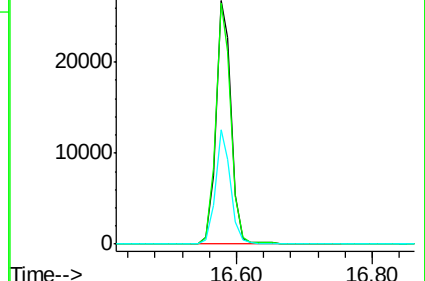
160 46.8 34.6 52.0

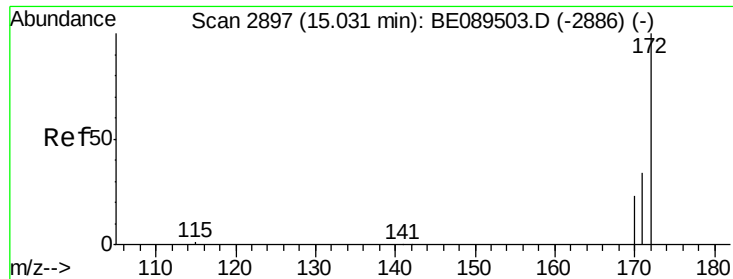


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 6.66 ng

RT: 15.03 min Scan# 2897

Delta R.T. 0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

PB81591BL

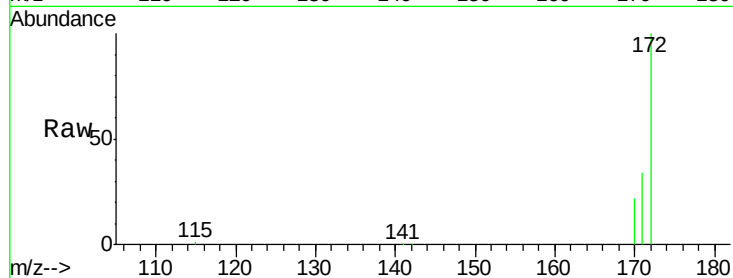
Tot Ion:172 Resp: 88474

Ion Ratio Lower Upper

172 100

171 33.5 27.4 41.0

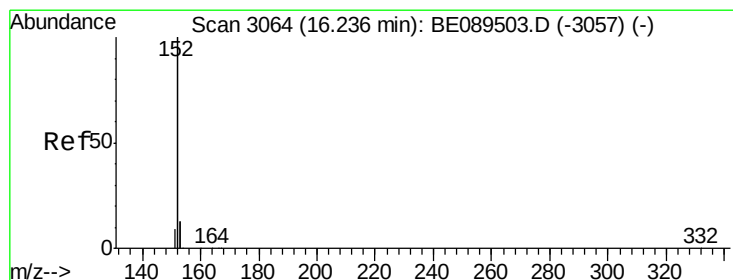
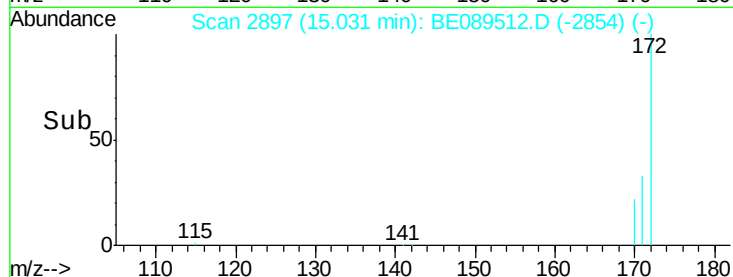
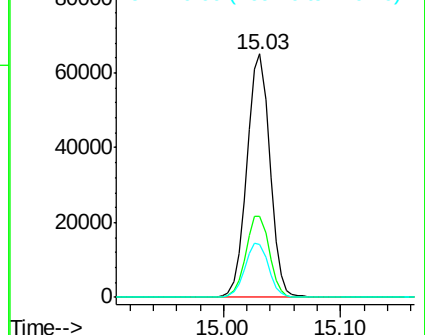
170 22.0 18.4 27.6



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: 0.08 ng

RT: 16.23 min Scan# 3063

Delta R.T. -0.01 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

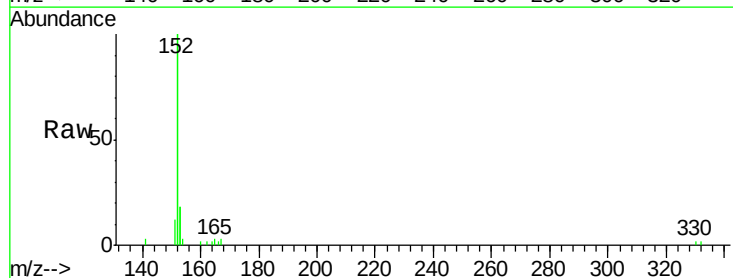
Tgt Ion:152 Resp: 7387

Ion Ratio Lower Upper

152 100

151 5.5 3.9 5.9

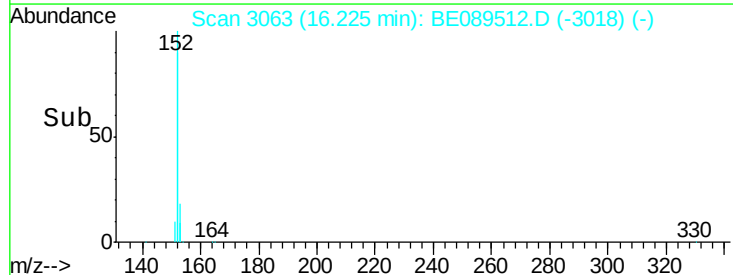
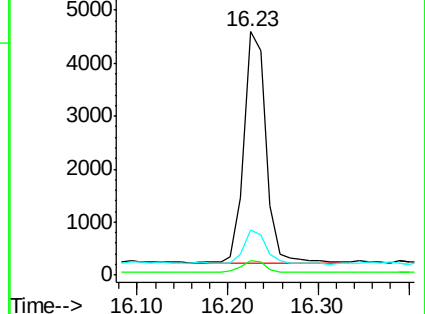
153 15.0 10.4 15.6

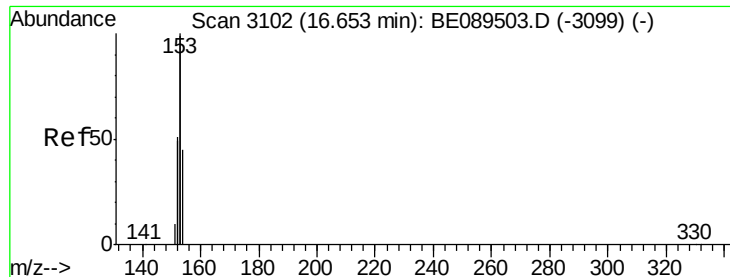


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.09 ng

RT: 16.65 min Scan# 3102

Delta R.T. 0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

Instrument :

BNA_E

ClientSampled :

PB81591BL

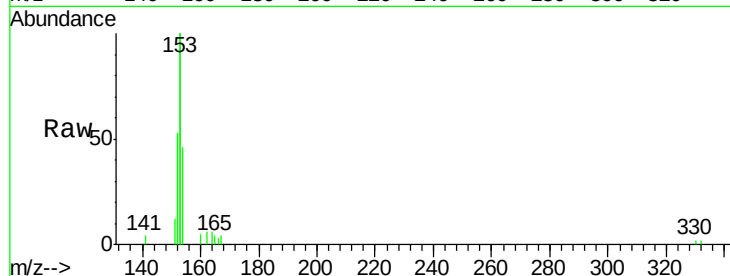
Tot Ion:154 Resp: 1309

Ion Ratio Lower Upper

154 100

153 413.4 341.5 512.3

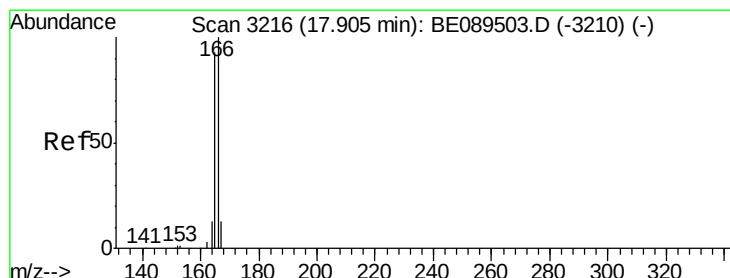
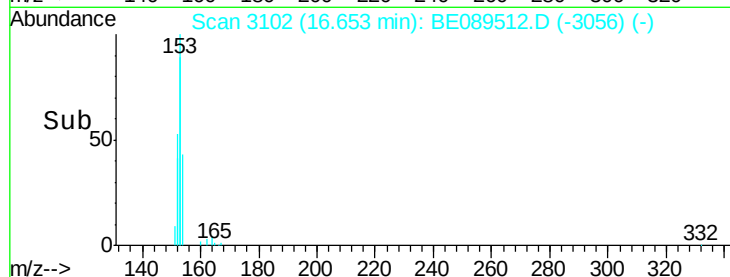
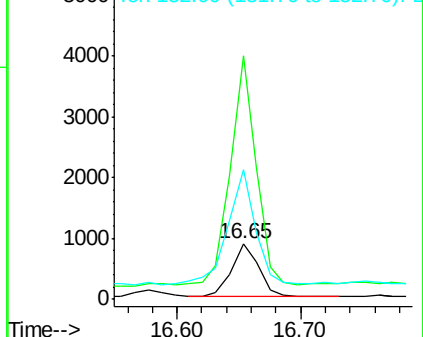
152 246.7 166.6 249.8



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



#10

Fluorene

Concen: 0.12 ng

RT: 17.91 min Scan# 3216

Delta R.T. 0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

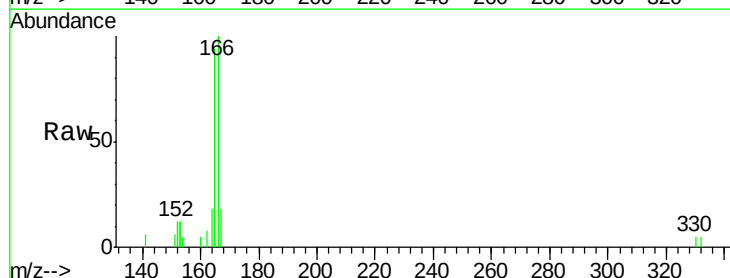
Tgt Ion:166 Resp: 1503

Ion Ratio Lower Upper

166 100

165 90.8 73.6 110.4

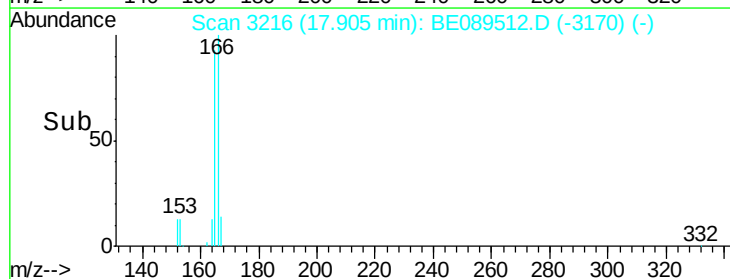
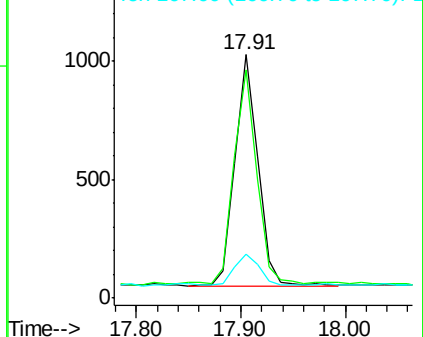
167 15.1 10.6 15.8

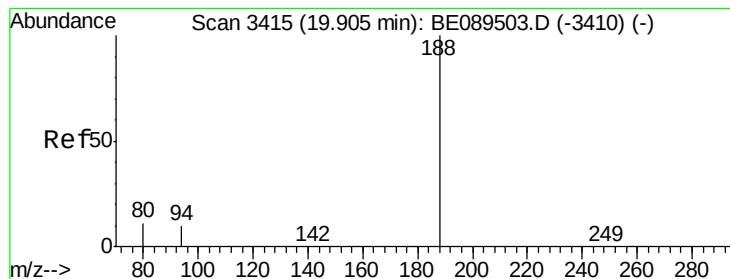


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.90 min Scan# 3415

Delta R.T. 0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

PB81591BL

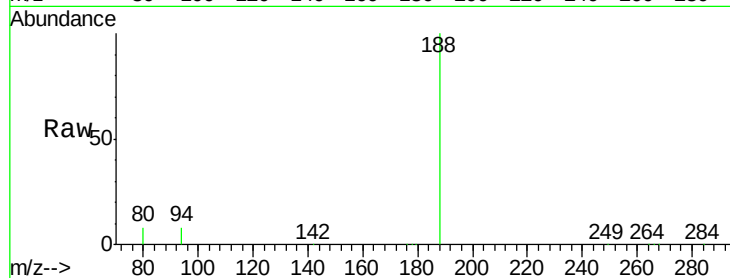
Tot Ion:188 Resp: 81713

Ion Ratio Lower Upper

188 100

94 8.3 8.2 12.4

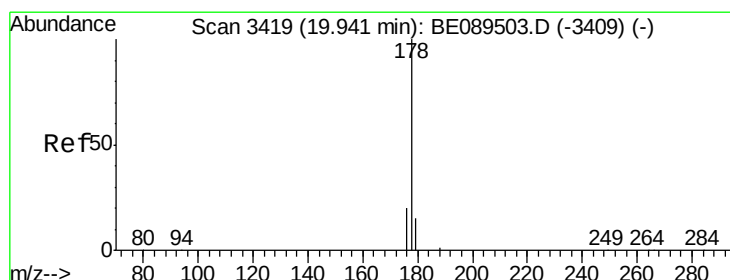
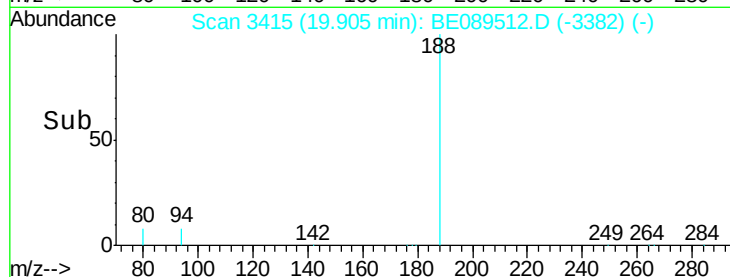
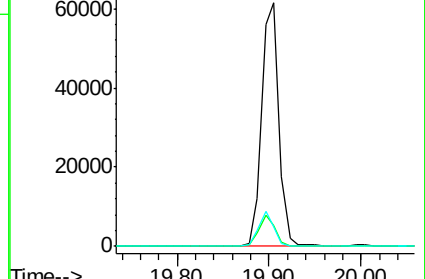
80 8.1 8.7 13.1#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#13

Phenanthrene

Concen: 0.10 ng

RT: 19.94 min Scan# 3419

Delta R.T. 0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

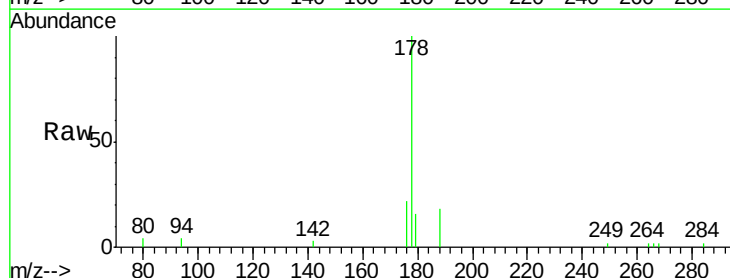
Tgt Ion:178 Resp: 2555

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

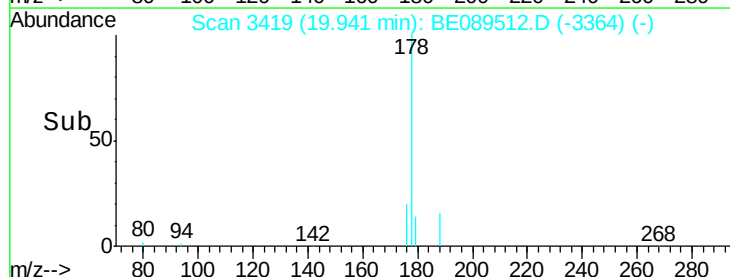
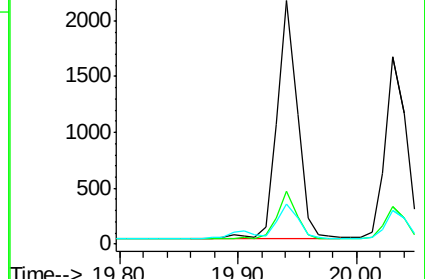
179 14.1 12.4 18.6

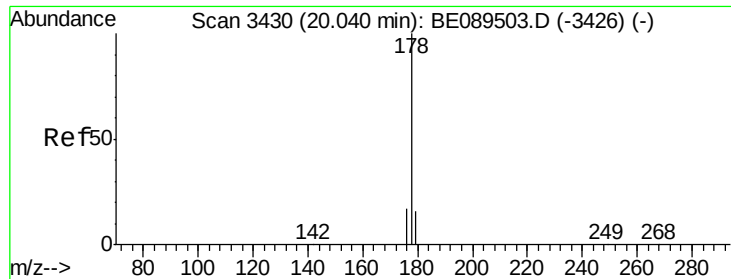


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#14

Anthracene

Concen: 0.13 ng

RT: 20.03 min Scan# 3429

Delta R.T. -0.01 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

PB81591BL

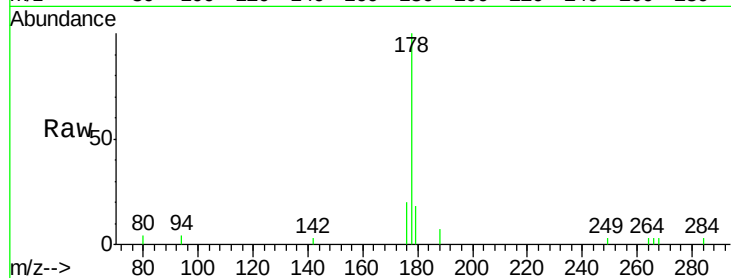
Tot Ion:178 Resp: 2061

Ion Ratio Lower Upper

178 100

176 16.9 14.6 22.0

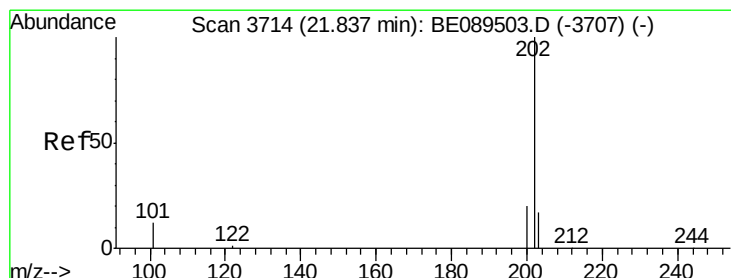
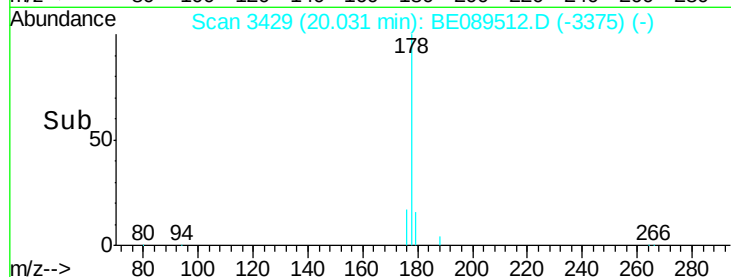
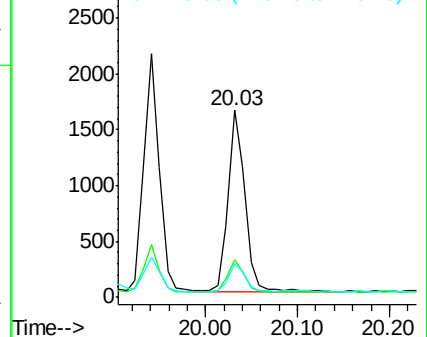
179 15.5 12.1 18.1



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



#15

Fluoranthene

Concen: 0.13 ng

RT: 21.83 min Scan# 3713

Delta R.T. -0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

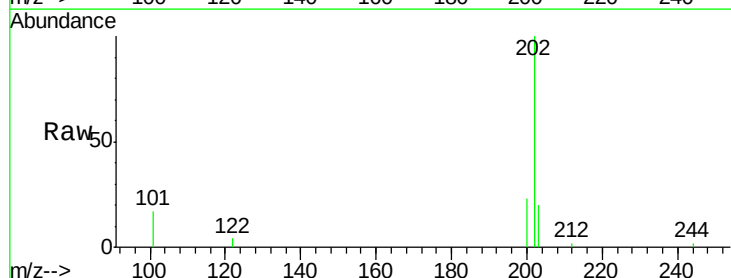
Tgt Ion:202 Resp: 2178

Ion Ratio Lower Upper

202 100

101 14.3 11.3 16.9

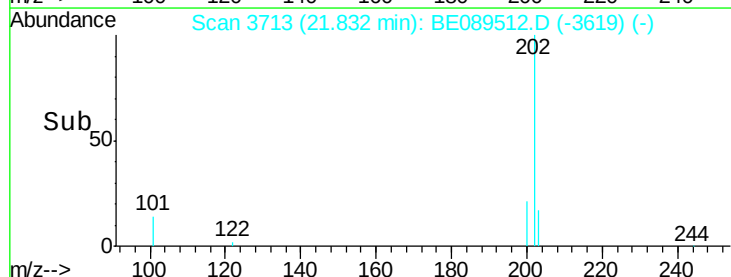
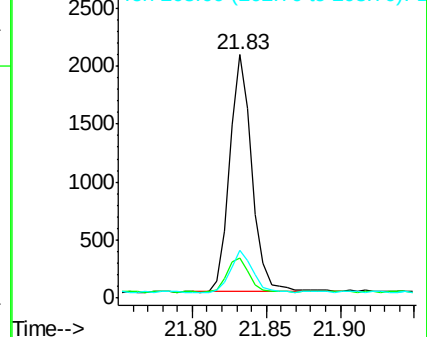
203 17.1 13.8 20.6

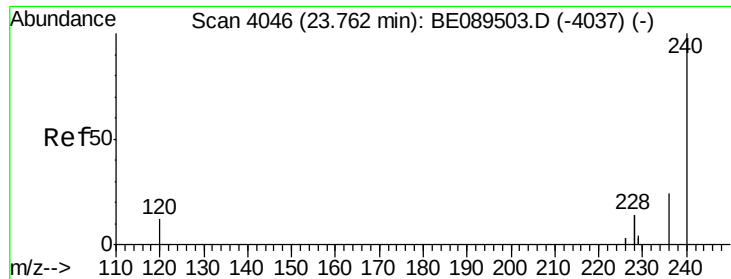


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

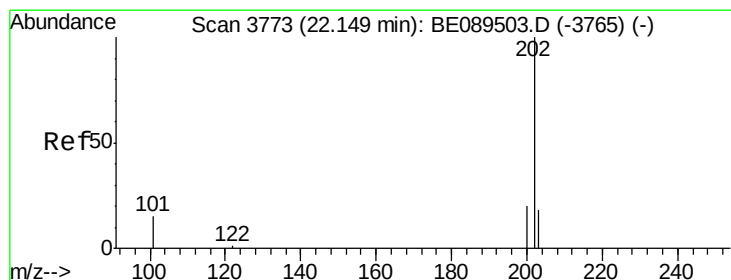
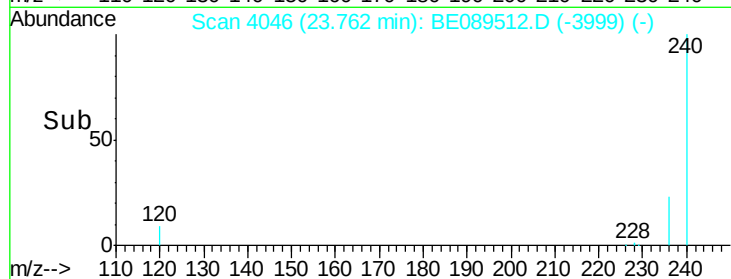
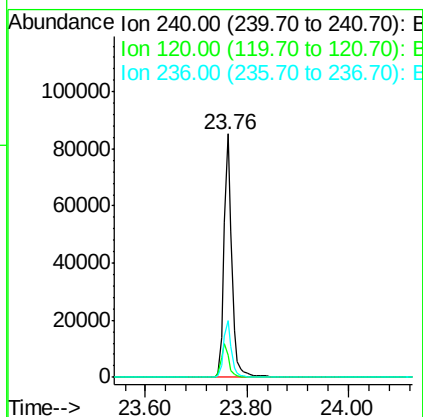
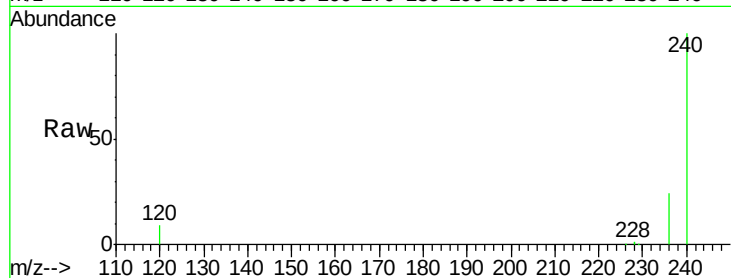




#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 4046
 Delta R.T. 0.00 min
 Lab File: BE089512.D
 Acq: 5 Feb 2015 20:52

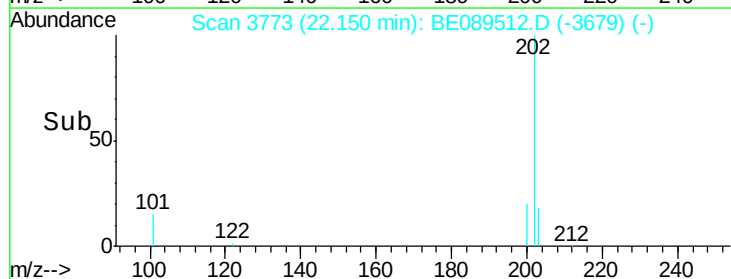
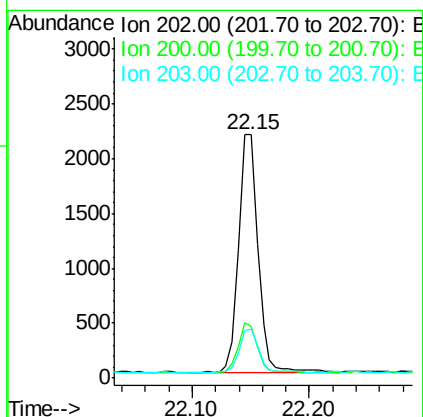
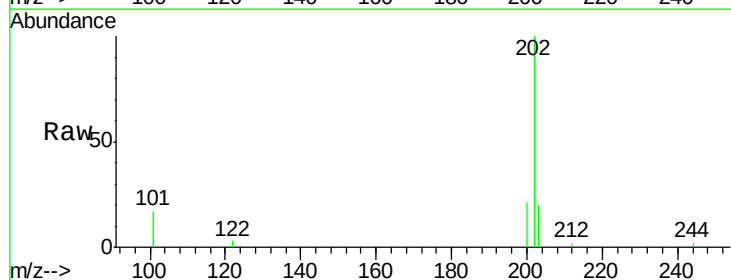
Instrument :
 BNA_E
 ClientSampled :
 PB81591BL

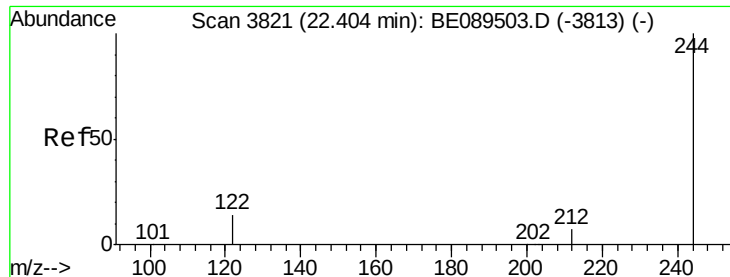
Tot Ion:240 Resp: 92234
 Ion Ratio Lower Upper
 240 100
 120 9.0 9.6 14.4#
 236 23.5 19.4 29.2



#17
 Pyrene
 Concen: 0.09 ng
 RT: 22.15 min Scan# 3773
 Delta R.T. 0.00 min
 Lab File: BE089512.D
 Acq: 5 Feb 2015 20:52

Tgt Ion:202 Resp: 2491
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.5 24.7
 203 18.5 14.0 21.0

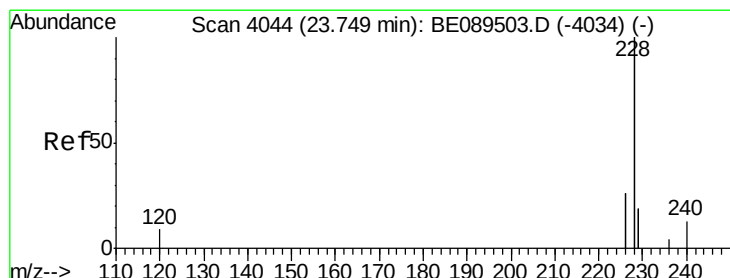
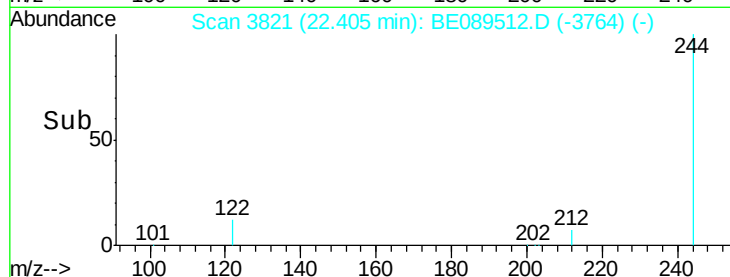
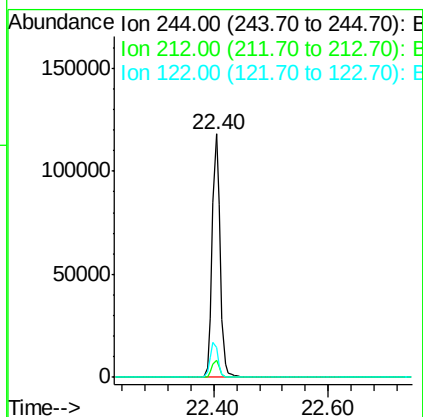
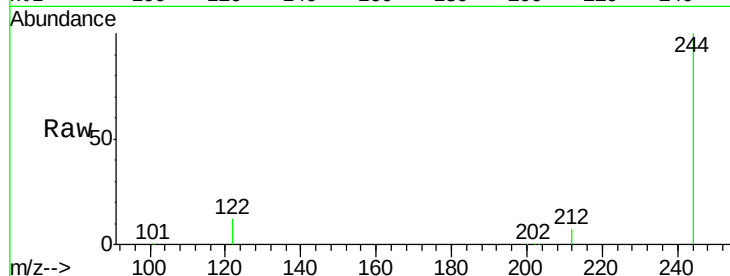




#18
 Terphenyl-d14
 Concen: 7.21 ng
 RT: 22.40 min Scan# 3821
 Delta R.T. 0.00 min
 Lab File: BE089512.D
 Acq: 5 Feb 2015 20:52

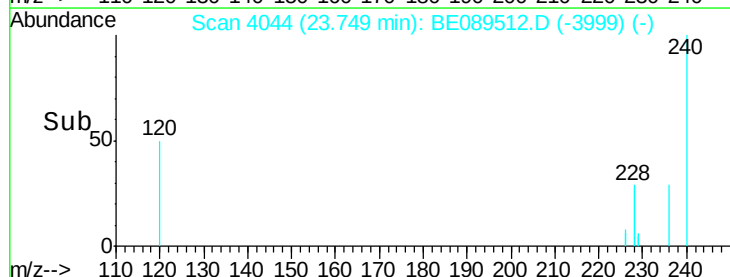
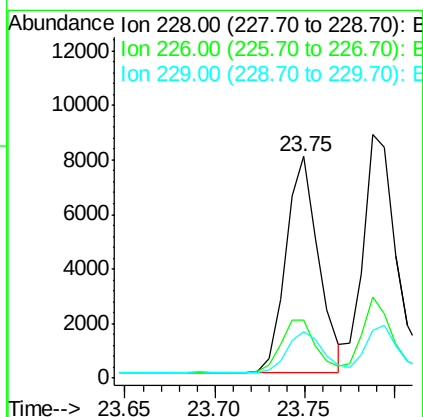
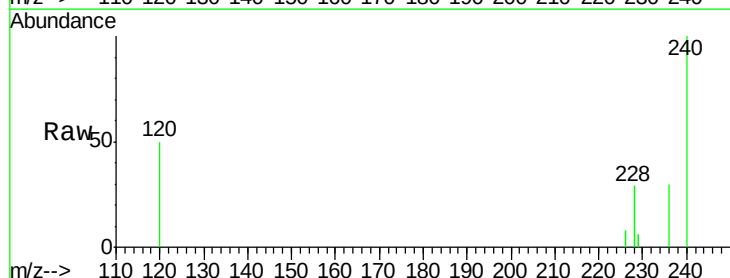
Instrument :
 BNA_E
 ClientSampleId :
 PB81591BL

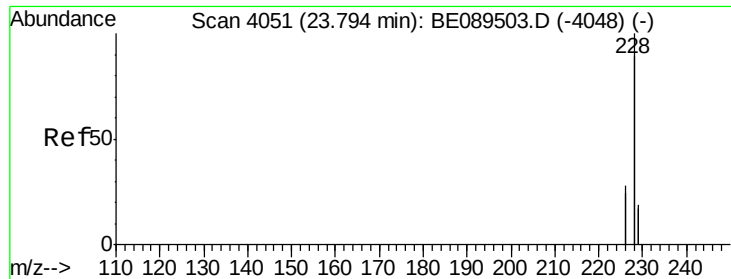
Tot Ion:244 Resp: 115725
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.5 8.3
 122 12.1 11.1 16.7



#19
 Benzo(a)anthracene
 Concen: 0.12 ng
 RT: 23.75 min Scan# 4044
 Delta R.T. 0.00 min
 Lab File: BE089512.D
 Acq: 5 Feb 2015 20:52

Tgt Ion:228 Resp: 9984
 Ion Ratio Lower Upper
 228 100
 226 26.0 21.0 31.6
 229 21.2 15.5 23.3





#20

Chrysene

Concen: 0.11 ng

RT: 23.79 min Scan# 4050

Delta R.T. -0.01 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

PB81591BL

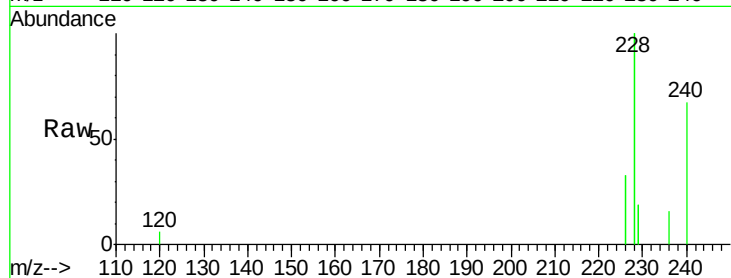
Tot Ion:228 Resp: 11899

Ion Ratio Lower Upper

228 100

226 33.1 22.3 33.5

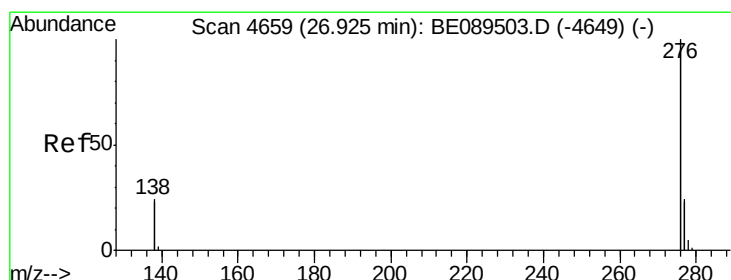
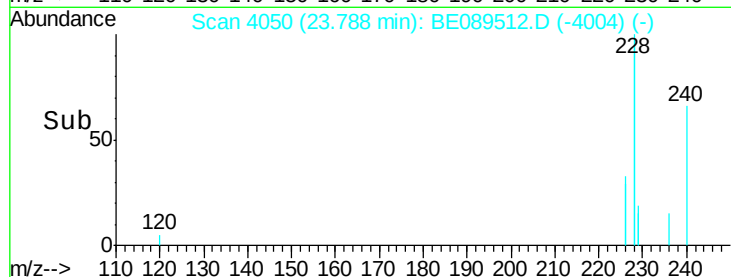
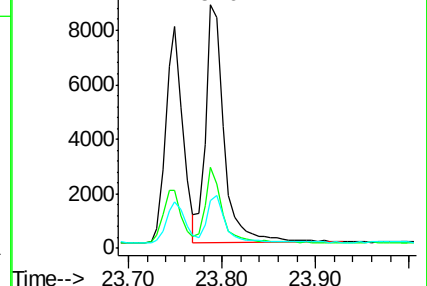
229 19.5 15.4 23.0



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



#21

Indeno(1,2,3-cd)pyrene

Concen: 0.14 ng

RT: 26.91 min Scan# 4657

Delta R.T. -0.01 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

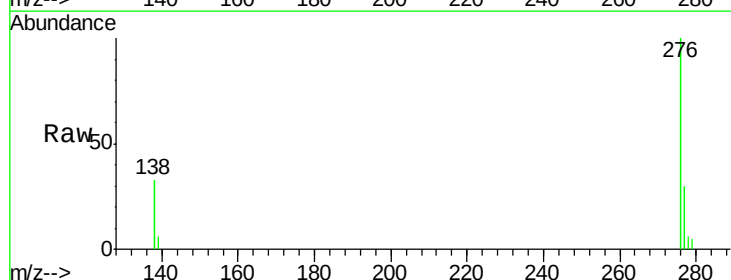
Tgt Ion:276 Resp: 9893

Ion Ratio Lower Upper

276 100

138 11.7 23.2 34.8#

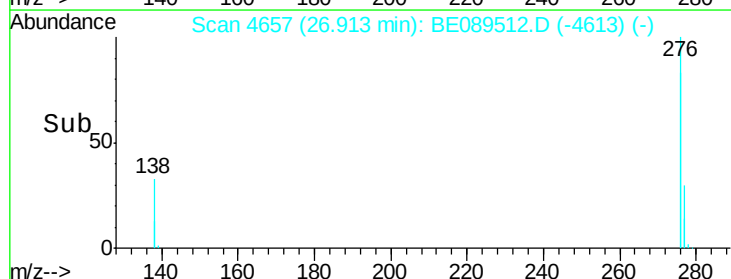
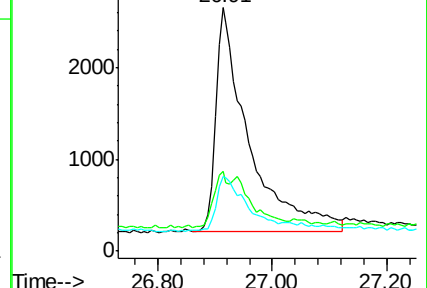
277 21.5 19.8 29.6

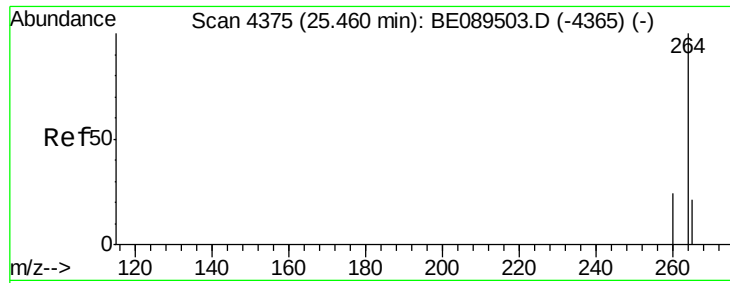


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

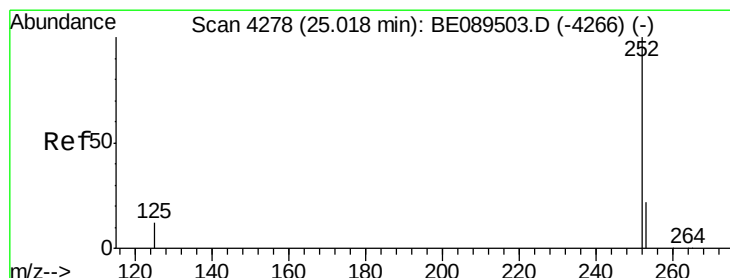
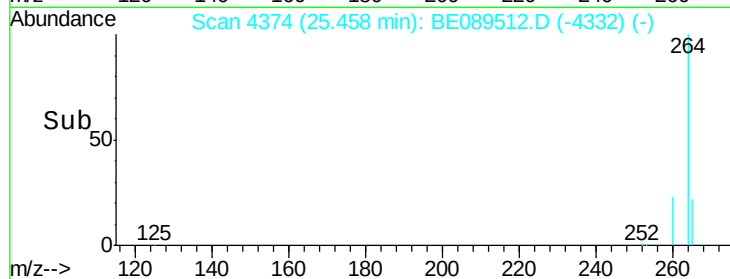
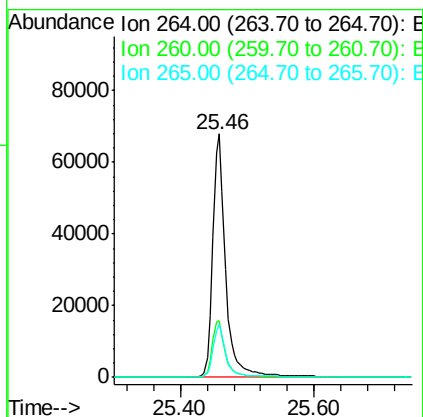
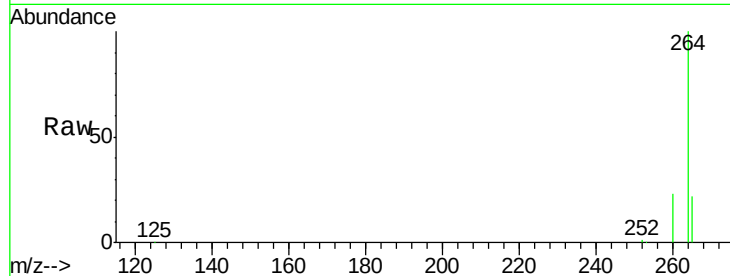




#22
Pervlene-d12
Concen: 5.00 ng
RT: 25.46 min Scan# 4374
Delta R.T. -0.00 min
Lab File: BE089512.D
Acq: 5 Feb 2015 20:52

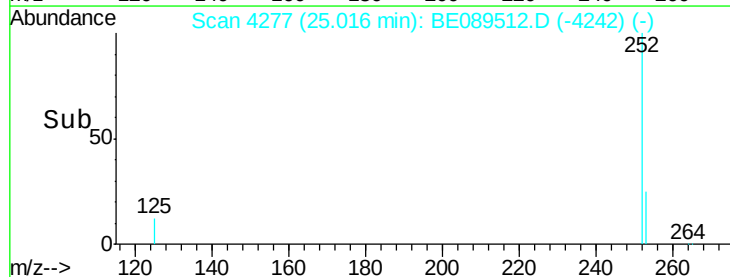
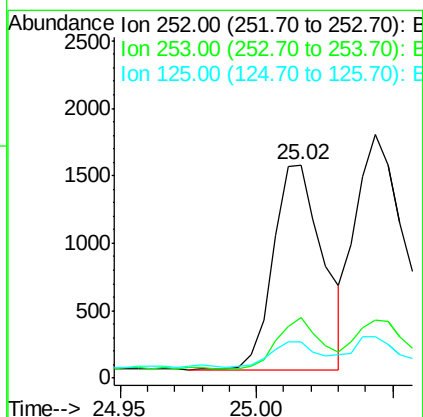
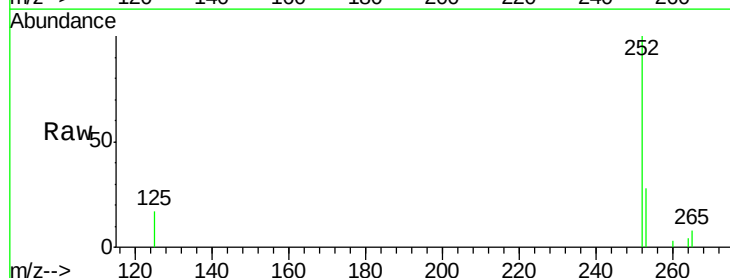
Instrument :
BNA_E
ClientSampleId :
PB81591BL

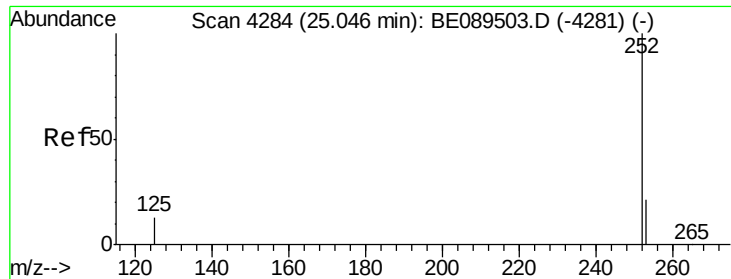
Tot Ion:264 Resp: 92304
Ion Ratio Lower Upper
264 100
260 23.2 19.0 28.6
265 21.8 17.0 25.6



#23
Benzo(b)fluoranthene
Concen: 0.17 ng
RT: 25.02 min Scan# 4277
Delta R.T. -0.00 min
Lab File: BE089512.D
Acq: 5 Feb 2015 20:52

Tgt Ion:252 Resp: 1924
Ion Ratio Lower Upper
252 100
253 28.5 17.4 26.0#
125 17.1 9.6 14.4#





#24

Benzo(k)fluoranthene

Concen: 0.10 ng

RT: 25.04 min Scan# 4283

Delta R.T. -0.00 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

PB81591BL

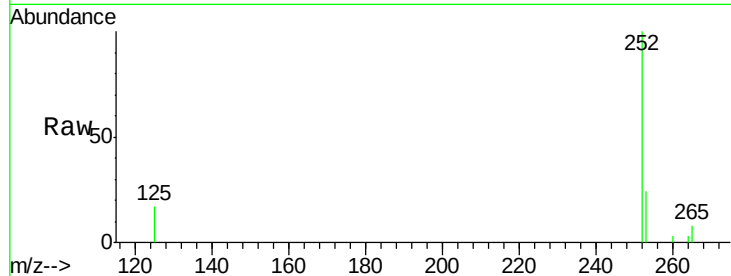
Tot Ion:252 Resp: 2911

Ion Ratio Lower Upper

252 100

253 24.0 17.0 25.6

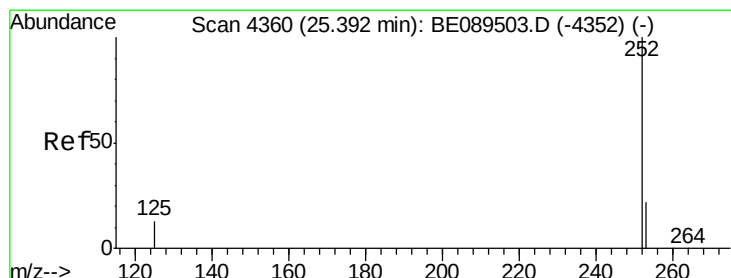
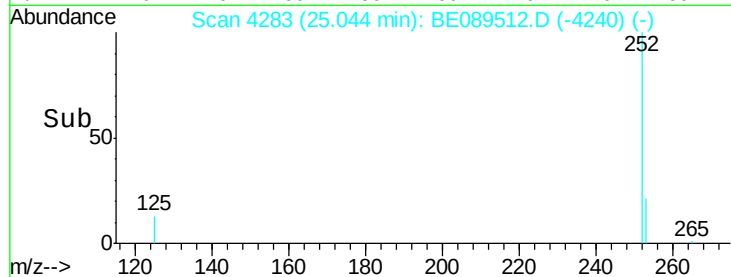
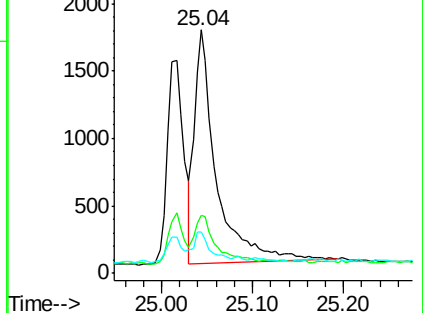
125 17.0 10.2 15.4#



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

Benzo(a)pyrene

Concen: 0.17 ng

RT: 25.39 min Scan# 4358

Delta R.T. -0.01 min

Lab File: BE089512.D

Acq: 5 Feb 2015 20:52

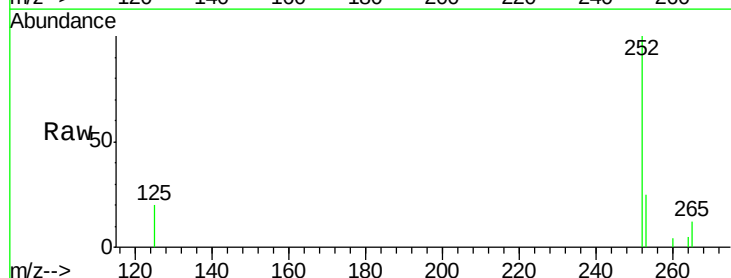
Tgt Ion:252 Resp: 2024

Ion Ratio Lower Upper

252 100

253 25.2 17.8 26.6

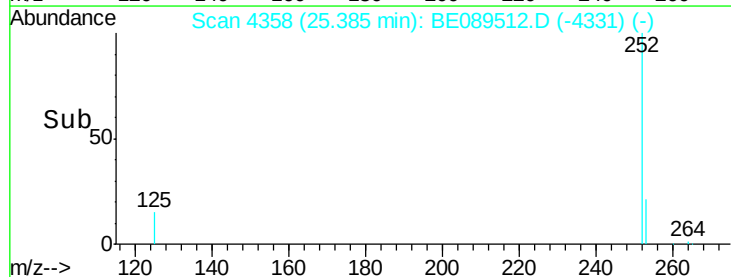
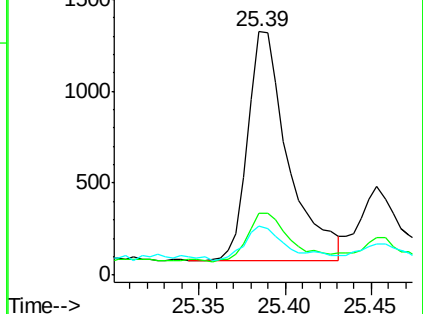
125 20.4 10.7 16.1#

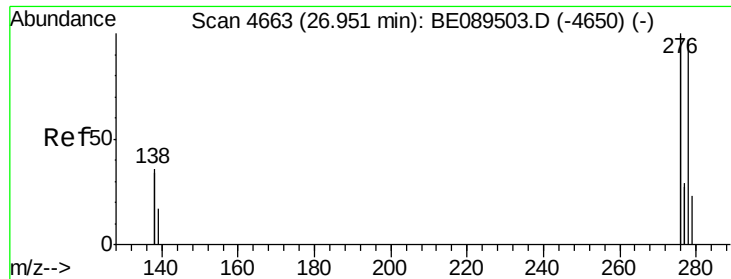


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

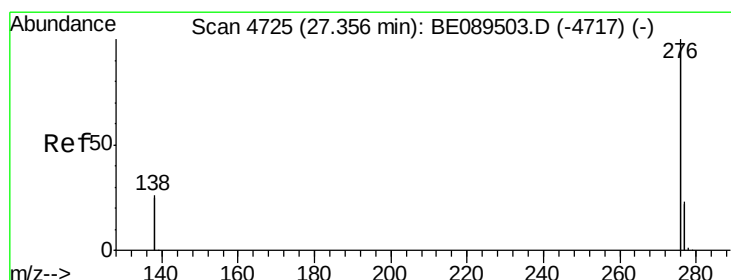
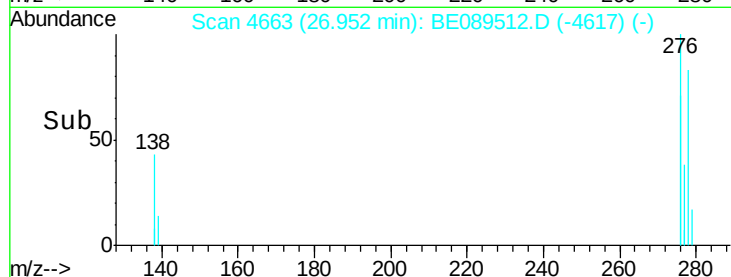
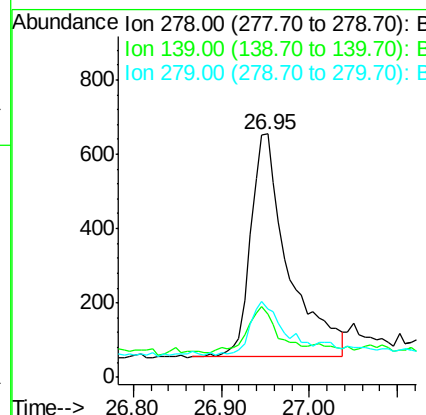
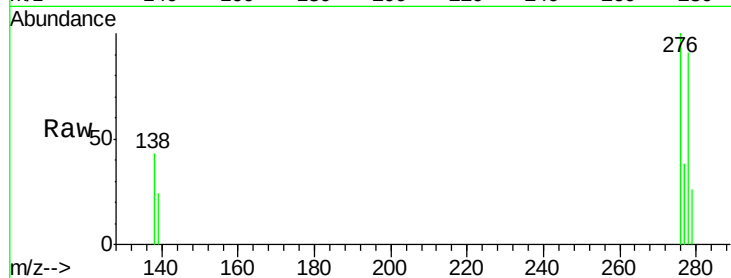




#26
Dibenzo(a,h)anthracene
Concen: 0.13 ng
RT: 26.95 min Scan# 4663
Delta R.T. 0.00 min
Lab File: BE089512.D
Acq: 5 Feb 2015 20:52

Instrument :
BNA_E
ClientSampleId :
PB81591BL

Tot Ion:278 Resp: 1788
Ion Ratio Lower Upper
278 100
139 26.1 14.6 22.0#
279 27.9 19.0 28.4



#27
Benzo(g,h,i)perylene
Concen: 0.13 ng
RT: 27.35 min Scan# 4724
Delta R.T. -0.00 min
Lab File: BE089512.D
Acq: 5 Feb 2015 20:52

Tgt Ion:276 Resp: 10508
Ion Ratio Lower Upper
276 100
277 27.9 18.6 28.0
138 30.5 20.8 31.2

