

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089537.D
 Acq On : 6 Feb 2015 21:41
 Operator : TP/IZ
 Sample : PB81591BL
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81591BL

Quant Time: Feb 07 04:58:15 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	28835	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	106036	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	37490	5.00	ng	0.00
11) Phenanthrene-d10	19.85	188	55628	5.00	ng	0.00
16) Chrysene-d12	23.72	240	60842	5.00	ng	0.00
22) Perylene-d12	25.41	264	77747	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	65286	9.27	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	94055	9.40	ng	0.00
18) Terphenyl-d14	22.36	244	73078	9.10	ng	0.00

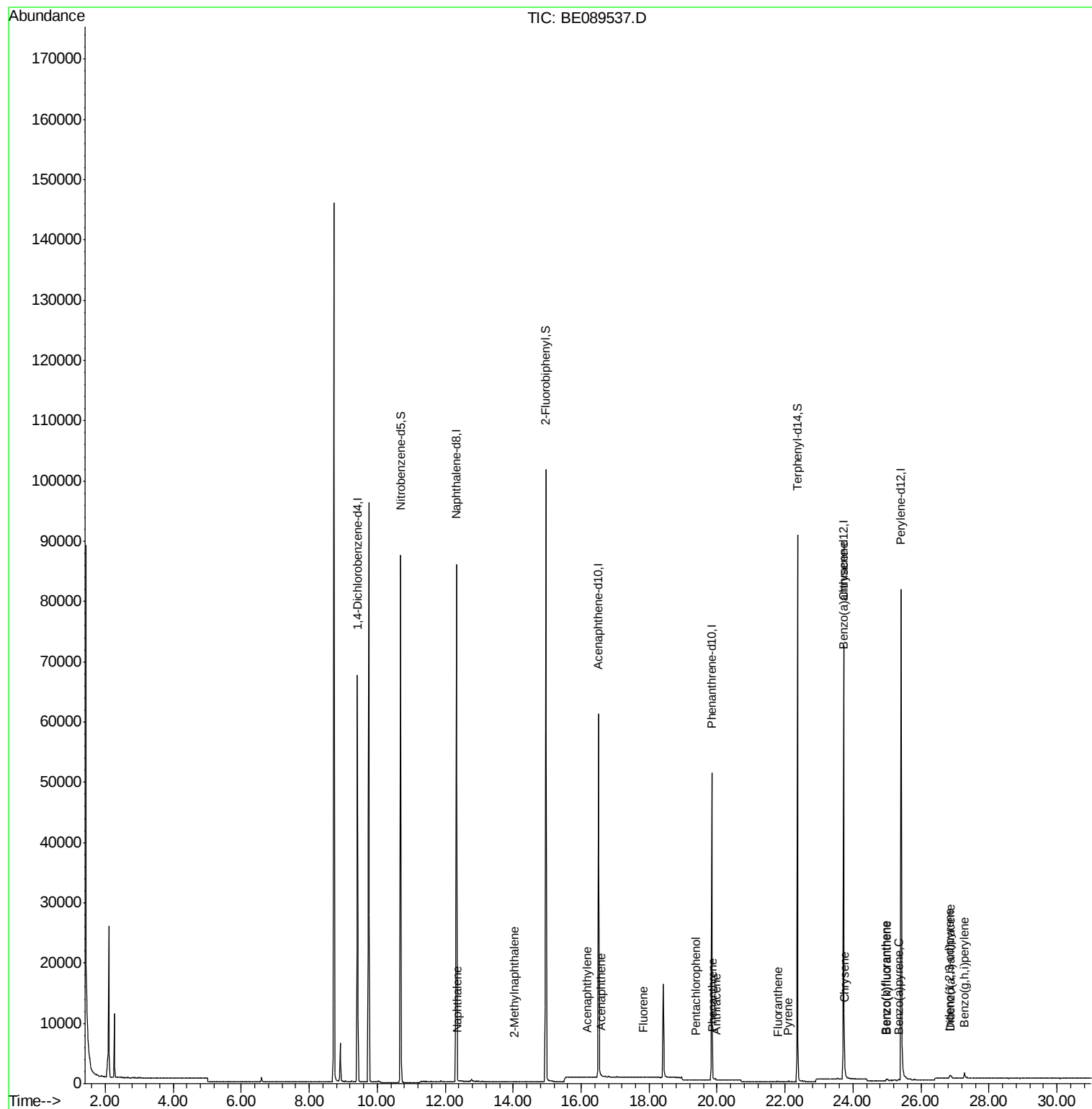
Target Compounds						Qvalue
4) Naphthalene	12.37	128	8	0.00	ng	# 1
5) 2-Methylnaphthalene	14.04	142	13	0.00	ng	# 54
8) Acenaphthylene	16.17	152	79	0.00	ng	# 37
9) Acenaphthene	16.58	154	6	0.00	ng	# 1
10) Fluorene	17.84	166	78	0.01	ng	# 85
12) Pentachlorophenol	19.39	266	9	0.55	ng	# 89
13) Phenanthrene	19.89	178	63	0.00	ng	# 65
14) Anthracene	19.99	178	45	0.00	ng	# 59
15) Fluoranthene	21.79	202	86	0.01	ng	# 85
17) Pyrene	22.10	202	106	0.01	ng	# 90
19) Benzo(a)anthracene	23.71	228	1364	0.03	ng	# 68
20) Chrysene	23.75	228	1186	0.02	ng	# 69
21) Indeno(1,2,3-cd)pyrene	26.85	276	1214	0.02	ng	# 63
23) Benzo(b)fluoranthene	24.98	252	219	0.01	ng	# 21
24) Benzo(k)fluoranthene	25.00	252	268	0.01	ng	# 48
25) Benzo(a)pyrene	25.35	252	194	0.01	ng	# 7
26) Dibenzo(a,h)anthracene	26.88	278	278	0.02	ng	# 22
27) Benzo(g,h,i)perylene	27.28	276	1899	0.03	ng	# 57

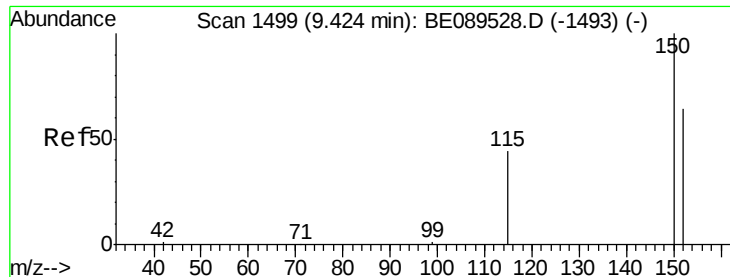
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampleId :

PB81591BL

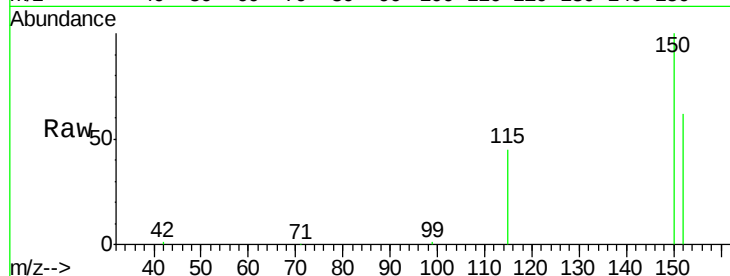
Tgt Ion:152 Resp: 28835

Ion Ratio Lower Upper

152 100

150 160.5 125.7 188.5

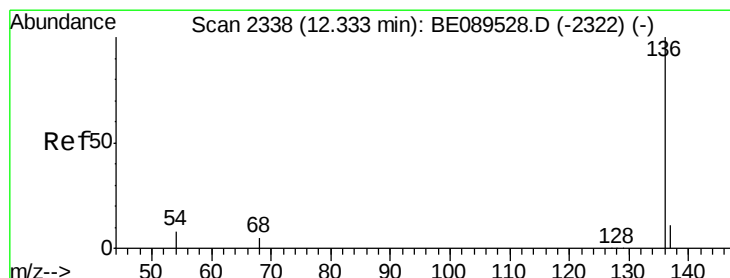
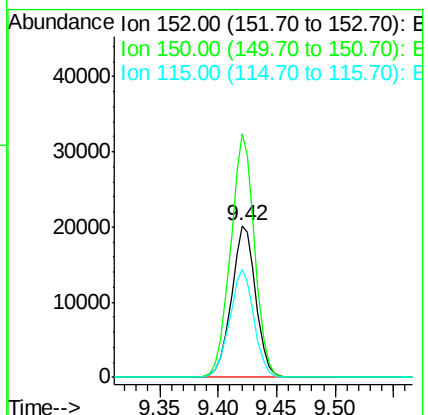
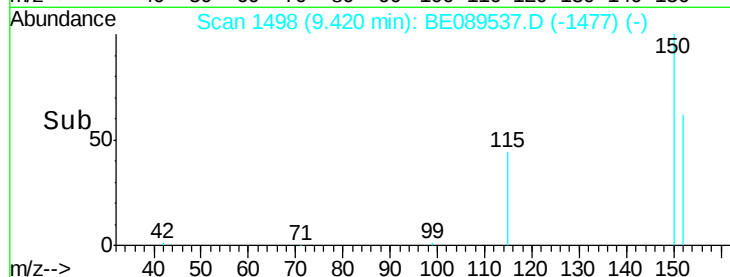
115 71.4 55.6 83.4



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: 12.33 min Scan# 2338

Delta R.T. -0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

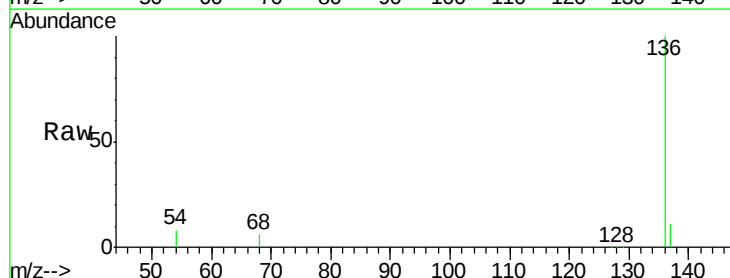
Tgt Ion:136 Resp: 106036

Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

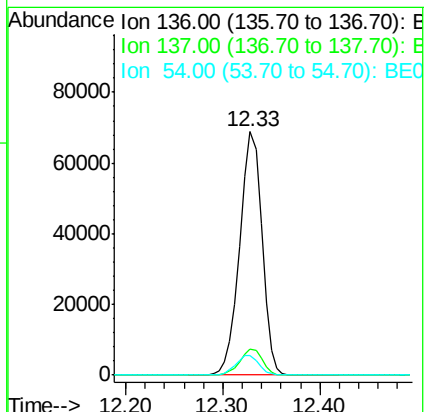
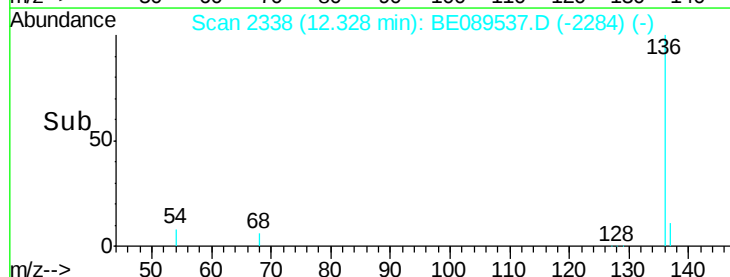
54 8.2 6.1 9.1



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





#3

Nitrobenzene-d5

Concen: 9.27 ng

RT: 10.69 min Scan# 1895

Delta R.T. -0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampleId :

PB81591BL

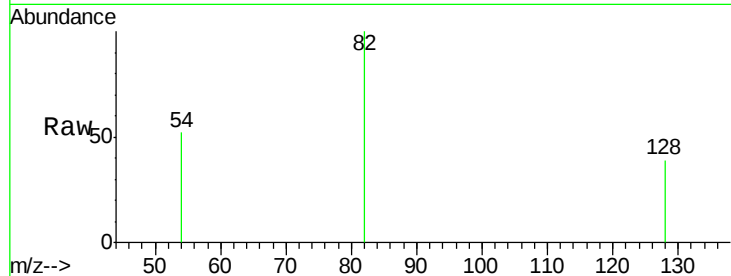
Tgt Ion: 82 Resp: 65286

Ion Ratio Lower Upper

82 100

128 39.2 30.2 45.4

54 51.6 40.6 60.8

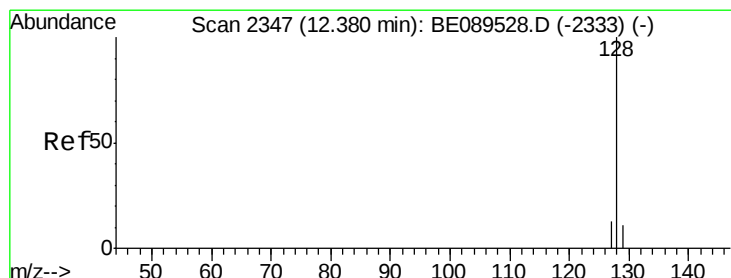
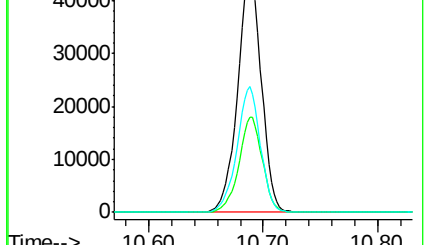
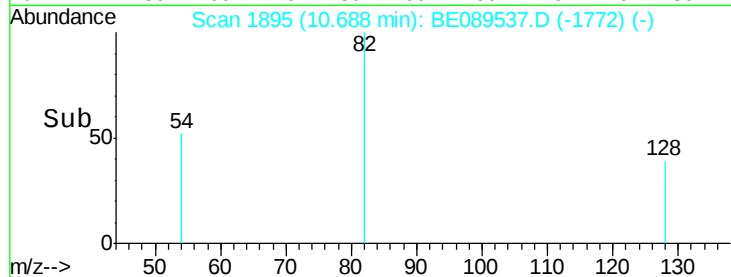


Abundance Ion 82.00 (81.70 to 82.70): BE089528.D (-1876) (-)

Ion 128.00 (127.70 to 128.70): BE089528.D (-1876) (-)

Ion 54.00 (53.70 to 54.70): BE089528.D (-1876) (-)

Time-->



#4

Naphthalene

Concen: 0.00 ng

RT: 12.37 min Scan# 2345

Delta R.T. -0.02 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

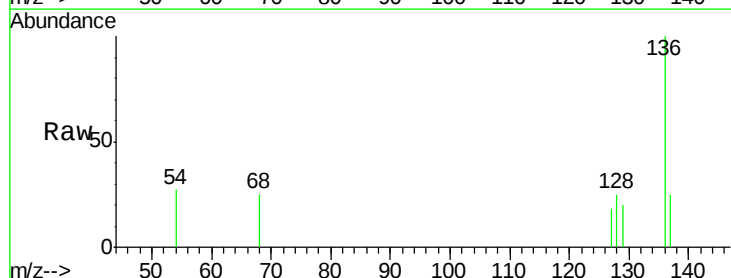
Tgt Ion: 128 Resp: 8

Ion Ratio Lower Upper

128 100

129 79.2 9.1 13.7#

127 72.2 10.5 15.7#

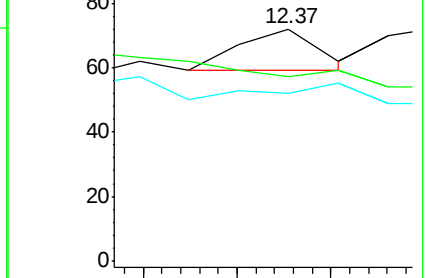
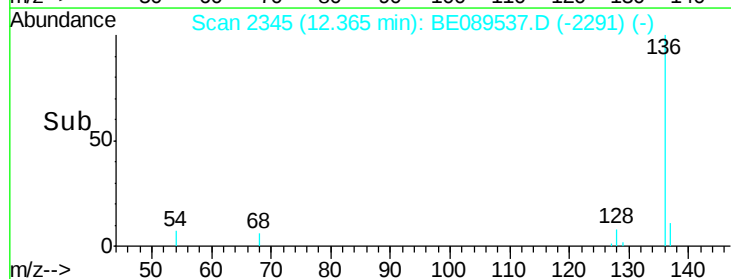


Abundance Ion 128.00 (127.70 to 128.70): BE089528.D (-2333) (-)

Ion 129.00 (128.70 to 129.70): BE089528.D (-2333) (-)

Ion 127.00 (126.70 to 127.70): BE089528.D (-2333) (-)

Time-->





#5

2-Methylnaphthalene

Concen: 0.00 ng

RT: 14.04 min Scan# 2679

Delta R.T. -0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampleId :

PB81591BL

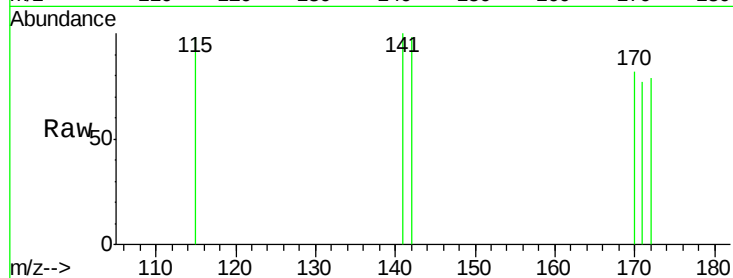
Tgt Ion:142 Resp: 13

Ion Ratio Lower Upper

142 100

141 101.6 67.0 100.6#

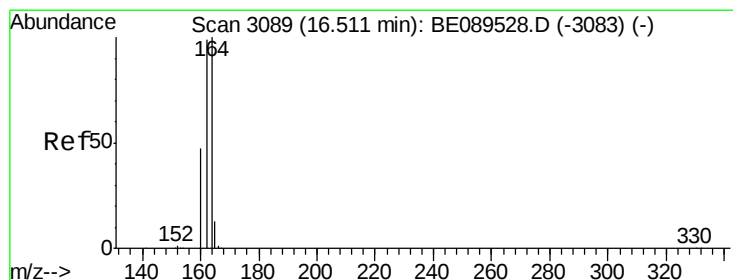
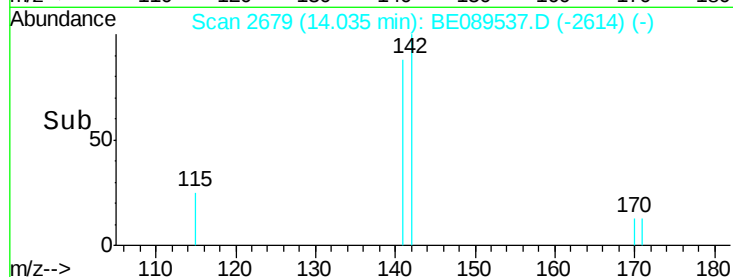
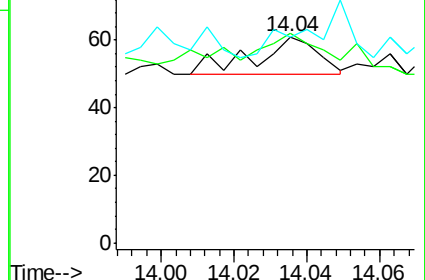
115 100.0 30.6 45.8#



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: 16.51 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

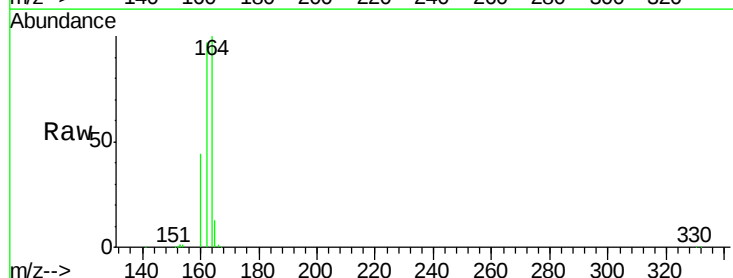
Tgt Ion:164 Resp: 37490

Ion Ratio Lower Upper

164 100

162 96.9 79.5 119.3

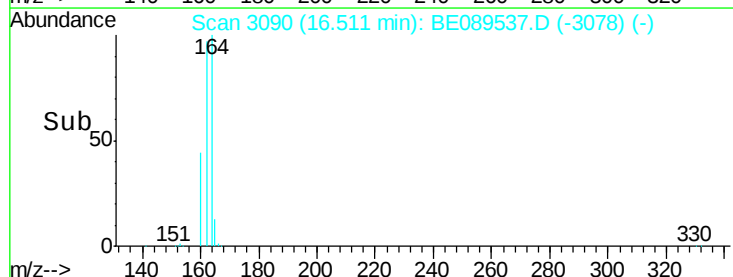
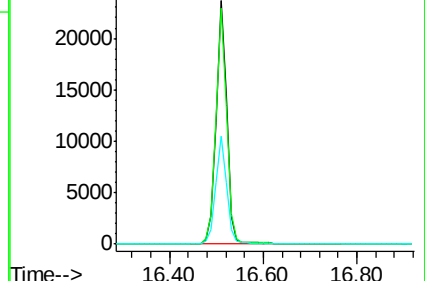
160 44.5 37.6 56.4



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: 9.40 ng

RT: 14.96 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampleId :

PB81591BL

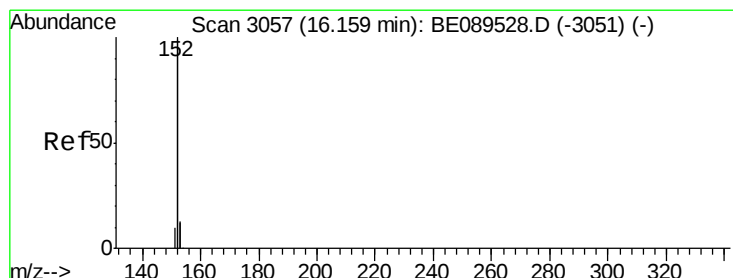
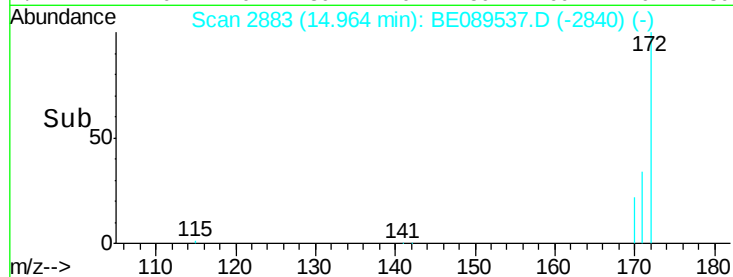
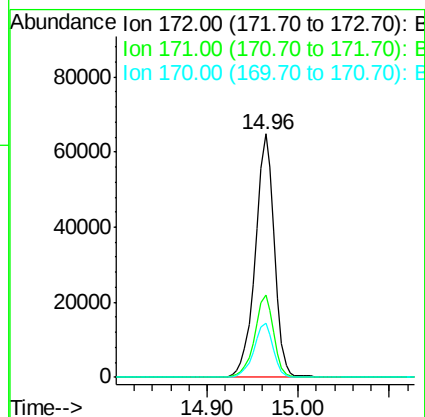
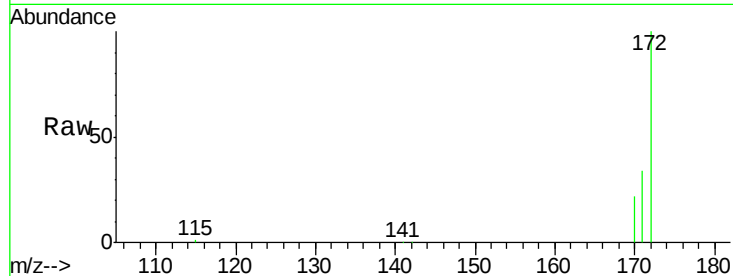
Tgt Ion:172 Resp: 94055

Ion Ratio Lower Upper

172 100

171 34.0 27.7 41.5

170 22.2 18.3 27.5



#8

Acenaphthylene

Concen: 0.00 ng

RT: 16.17 min Scan# 3059

Delta R.T. 0.01 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

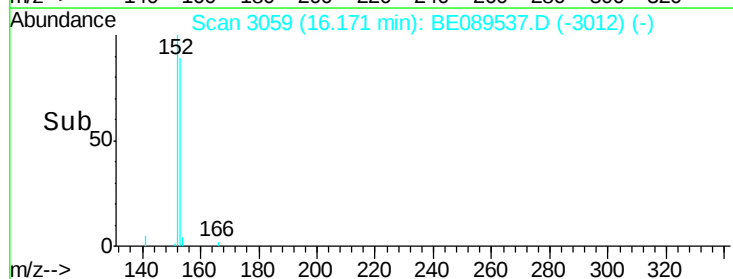
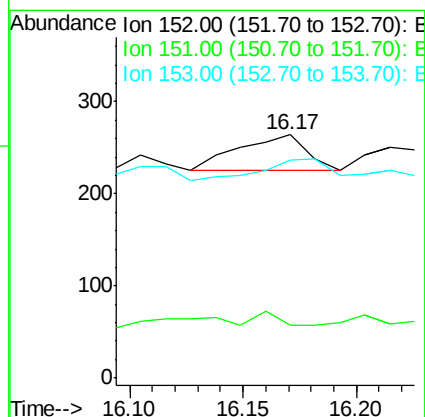
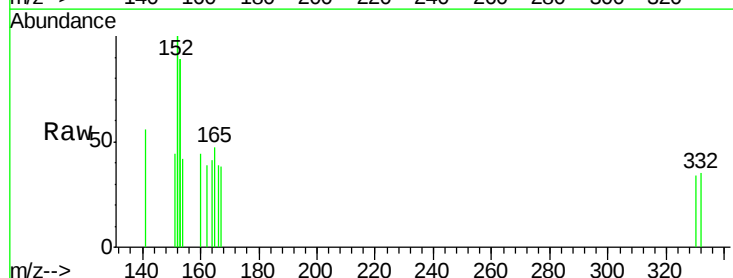
Tgt Ion:152 Resp: 79

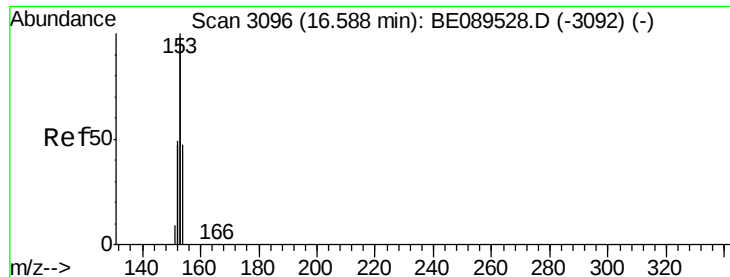
Ion Ratio Lower Upper

152 100

151 0.0 4.0 6.0#

153 45.6 10.6 15.8#





#9

Acenaphthene

Concen: 0.00 ng

RT: 16.58 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampleId :

PB81591BL

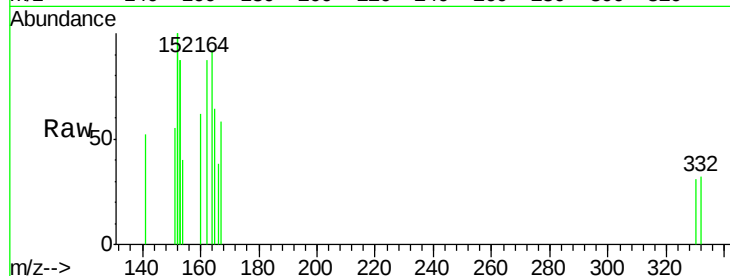
Tgt Ion:154 Resp: 6

Ion Ratio Lower Upper

154 100

153 7833.3 340.8 511.2#

152 5783.3 165.5 248.3#

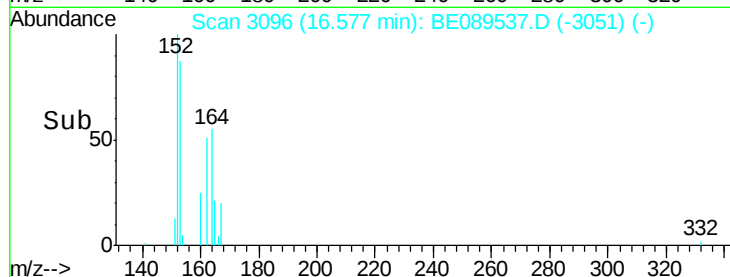


Abundance Ion 154.00 (153.70 to 154.70): E

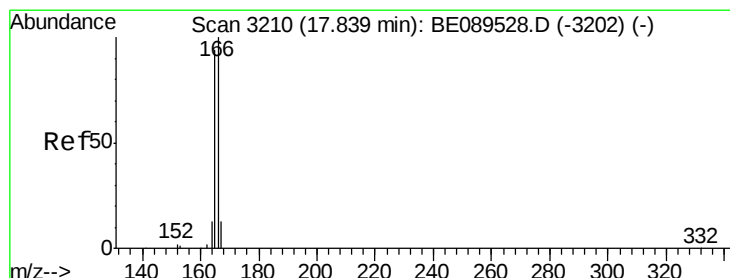
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Time--> 16.55 16.60



Time--> 16.55 16.60



#10

Fluorene

Concen: 0.01 ng

RT: 17.84 min Scan# 3211

Delta R.T. 0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

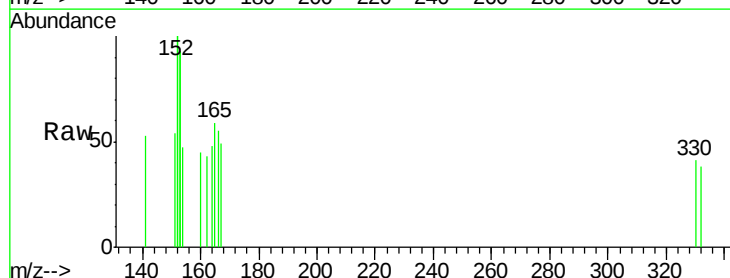
Tgt Ion:166 Resp: 78

Ion Ratio Lower Upper

166 100

165 102.6 75.5 113.3

167 37.2 10.9 16.3#

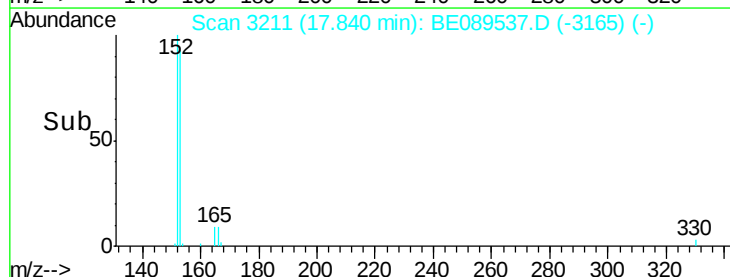


Abundance Ion 166.00 (165.70 to 166.70): E

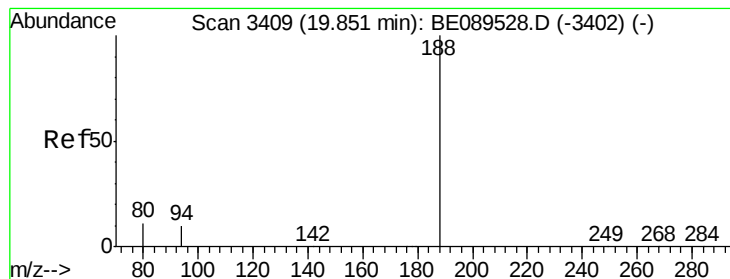
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

Time--> 17.70 17.80 17.90



Time--> 17.70 17.80 17.90



#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.85 min Scan# 3410

Delta R.T. 0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampled :

PB81591BL

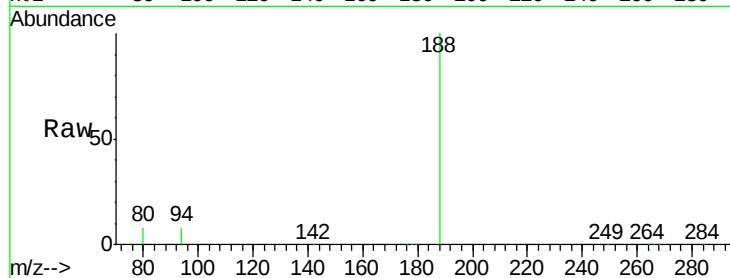
Tgt Ion:188 Resp: 55628

Ion Ratio Lower Upper

188 100

94 8.3 8.4 12.6#

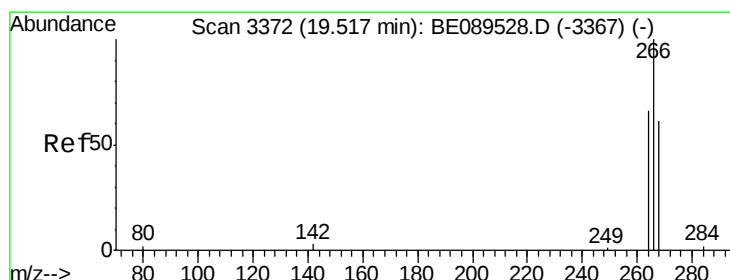
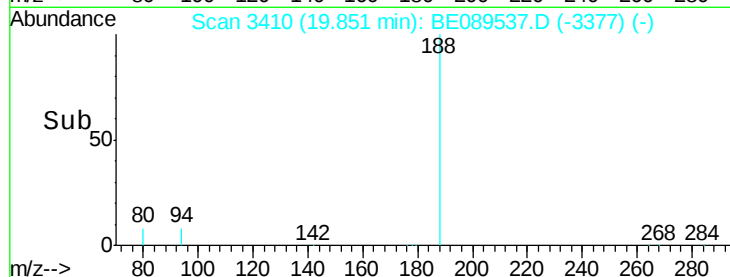
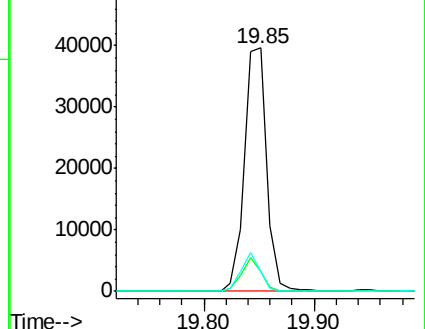
80 8.0 8.6 12.8#



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



#12

Pentachlorophenol

Concen: 0.55 ng

RT: 19.39 min Scan# 3359

Delta R.T. -0.13 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

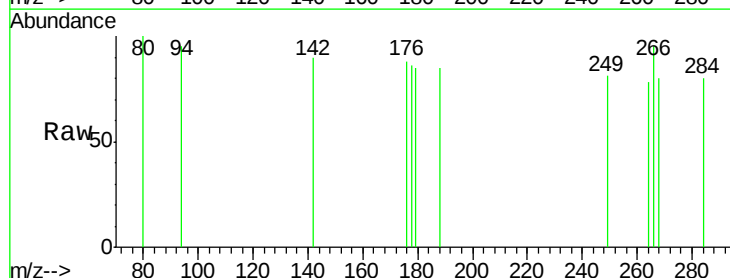
Tgt Ion:266 Resp: 9

Ion Ratio Lower Upper

266 100

268 83.9 57.9 86.9

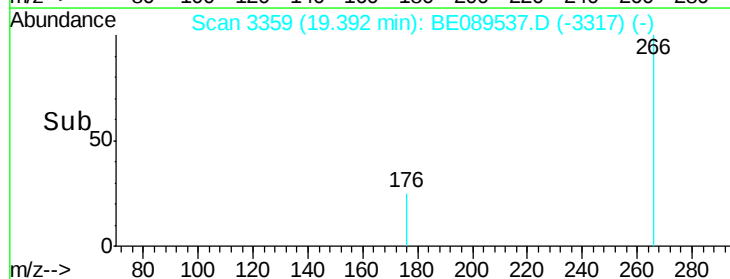
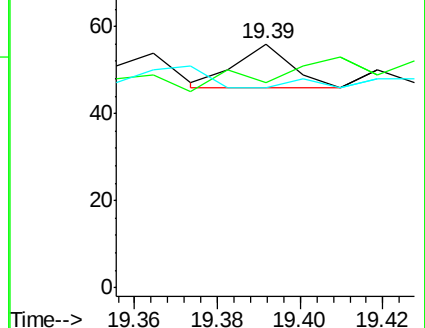
264 82.1 60.2 90.4

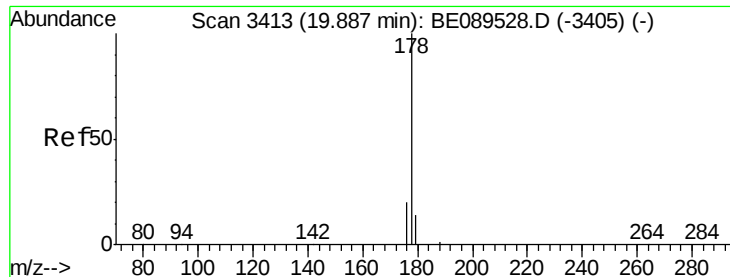


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

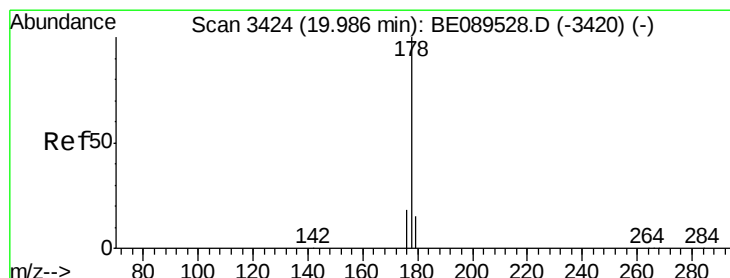
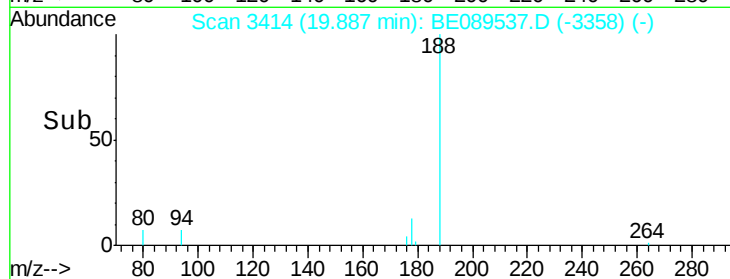
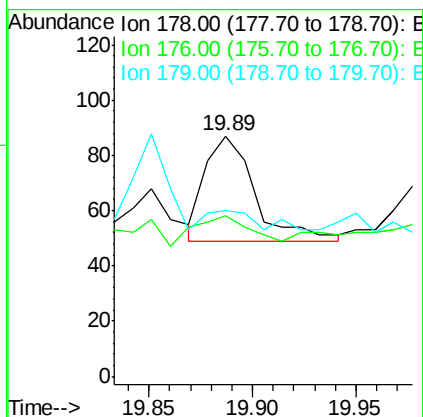
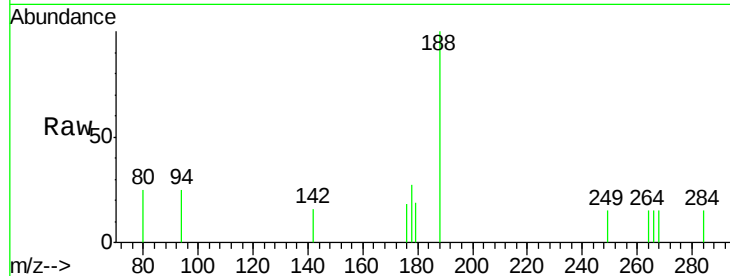




#13
Phenanthrene
Concen: 0.00 ng
RT: 19.89 min Scan# 3414
Delta R.T. 0.00 min
Lab File: BE089537.D
Acq: 6 Feb 2015 21:41

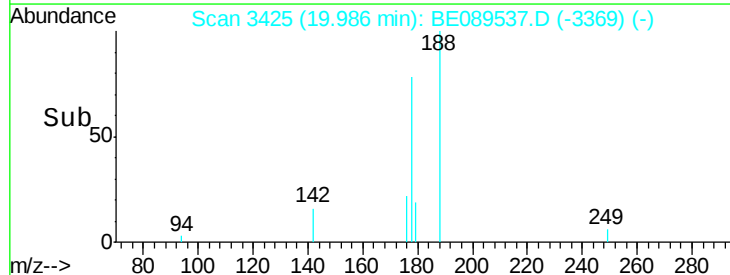
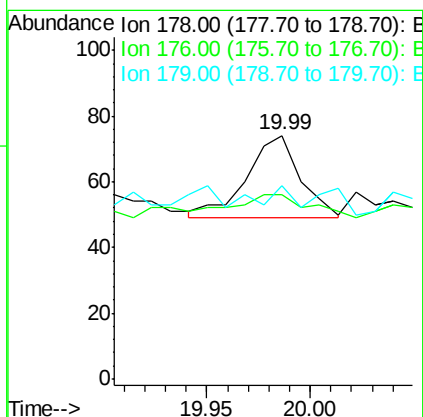
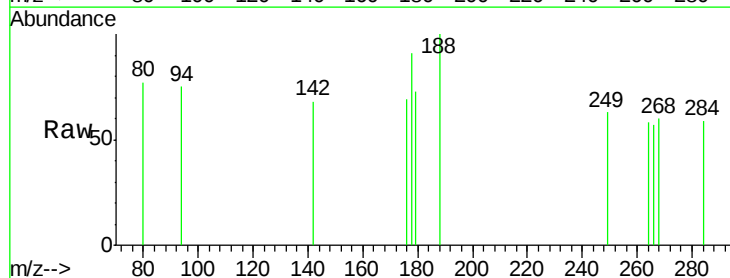
Instrument :
BNA_E
ClientSampleId :
PB81591BL

Tgt Ion:178 Resp: 63
Ion Ratio Lower Upper
178 100
176 34.9 15.4 23.0#
179 0.0 12.2 18.2#



#14
Anthracene
Concen: 0.00 ng
RT: 19.99 min Scan# 3425
Delta R.T. 0.00 min
Lab File: BE089537.D
Acq: 6 Feb 2015 21:41

Tgt Ion:178 Resp: 45
Ion Ratio Lower Upper
178 100
176 37.8 14.5 21.7#
179 0.0 12.2 18.2#

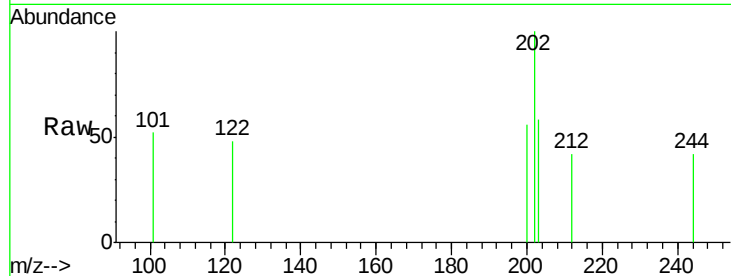




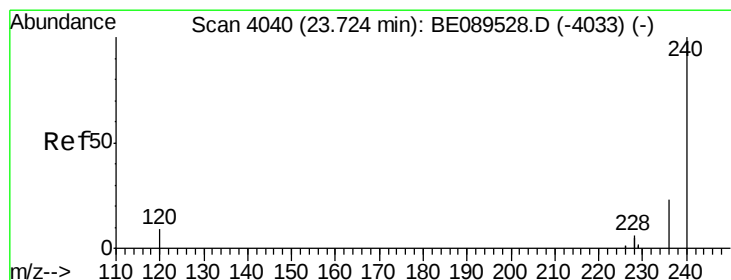
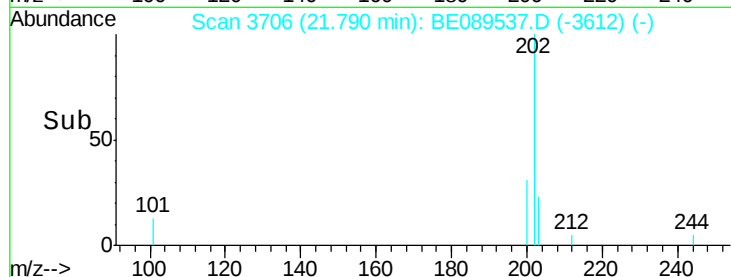
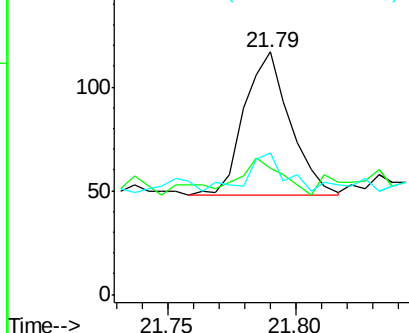
#15
 Fluoranthene
 Concen: 0.01 ng
 RT: 21.79 min Scan# 3706
 Delta R.T. 0.00 min
 Lab File: BE089537.D
 Acq: 6 Feb 2015 21:41

Instrument :
 BNA_E
 ClientSampleId :
 PB81591BL

Tgt Ion: 202 Resp: 86
 Ion Ratio Lower Upper
 202 100
 101 22.1 11.6 17.4#
 203 11.6 13.6 20.4#

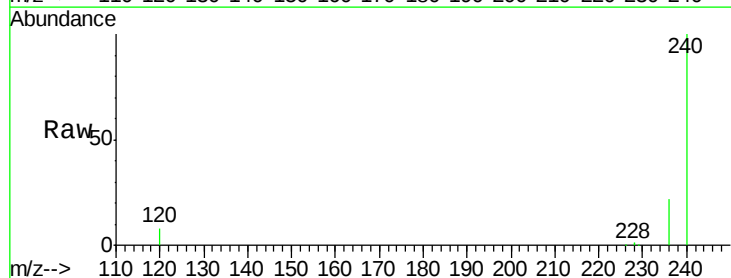


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

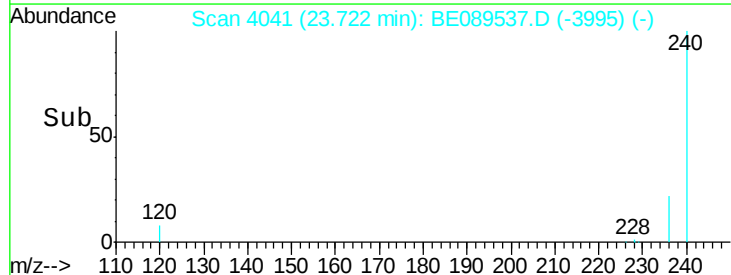
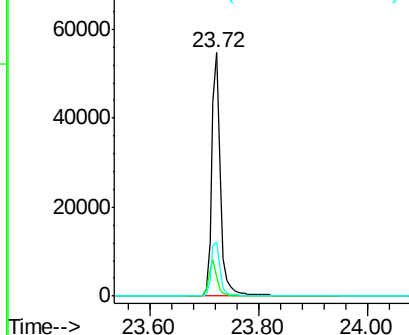


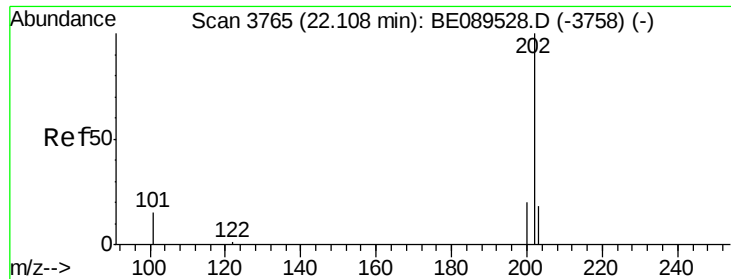
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4041
 Delta R.T. -0.00 min
 Lab File: BE089537.D
 Acq: 6 Feb 2015 21:41

Tgt Ion: 240 Resp: 60842
 Ion Ratio Lower Upper
 240 100
 120 8.1 7.2 10.8
 236 22.3 18.5 27.7



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





#17

Pyrene

Concen: 0.01 ng

RT: 22.10 min Scan# 3765

Delta R.T. -0.01 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampleId :

PB81591BL

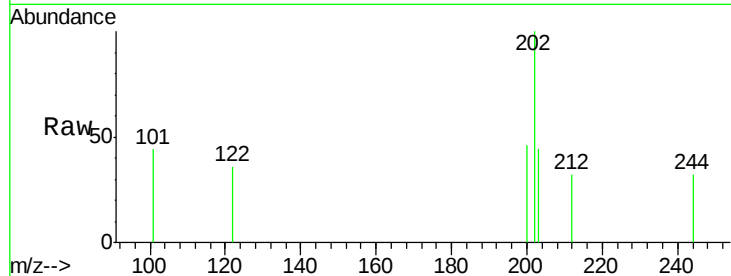
Tgt Ion: 202 Resp: 106

Ion Ratio Lower Upper

202 100

200 26.4 16.3 24.5#

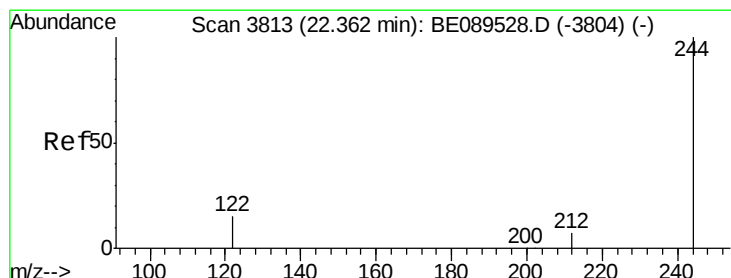
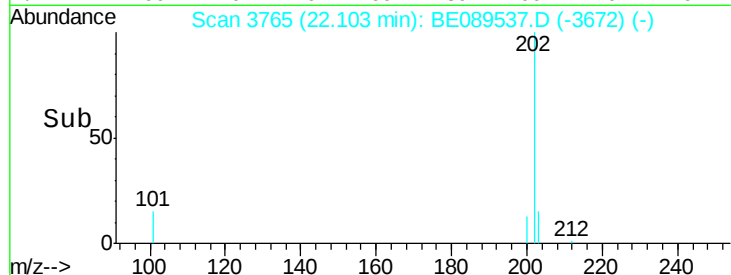
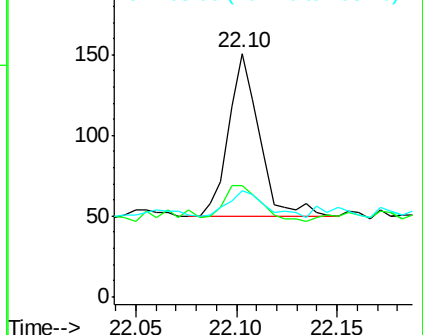
203 19.8 13.5 20.3



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



#18

Terphenyl-d14

Concen: 9.10 ng

RT: 22.36 min Scan# 3814

Delta R.T. 0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

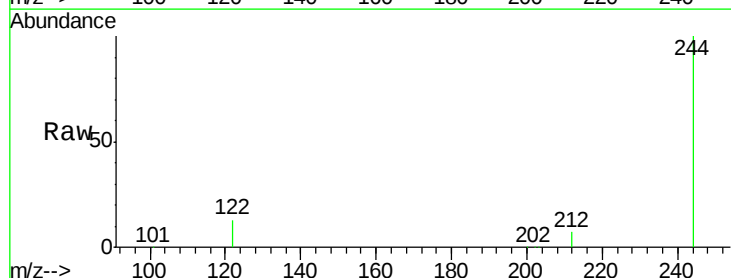
Tgt Ion: 244 Resp: 73078

Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.8

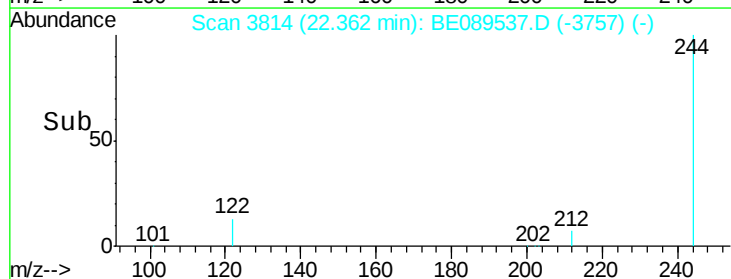
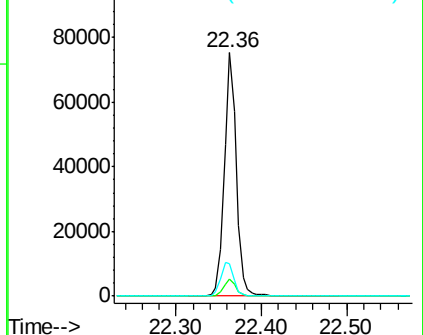
122 13.3 12.6 19.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.03 ng

RT: 23.71 min Scan# 4039

Delta R.T. -0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampled :

PB81591BL

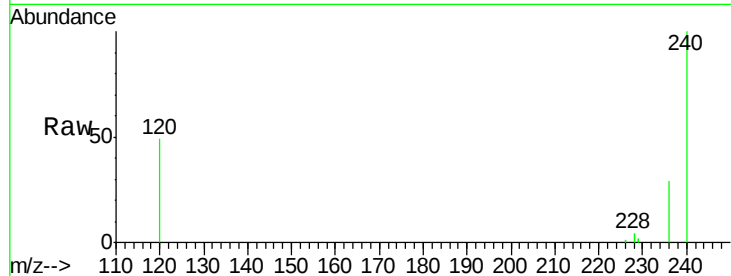
Tgt Ion:228 Resp: 1364

Ion Ratio Lower Upper

228 100

226 35.7 19.0 28.4#

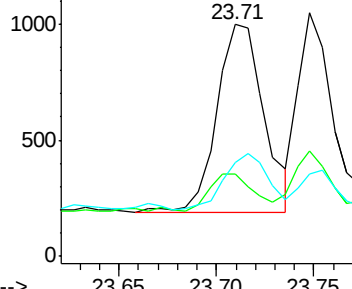
229 40.5 16.8 25.2#



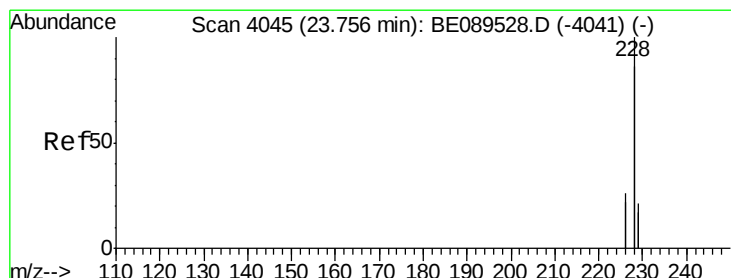
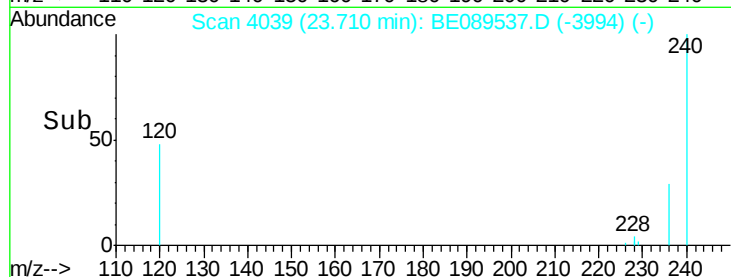
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#20

Chrysene

Concen: 0.02 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

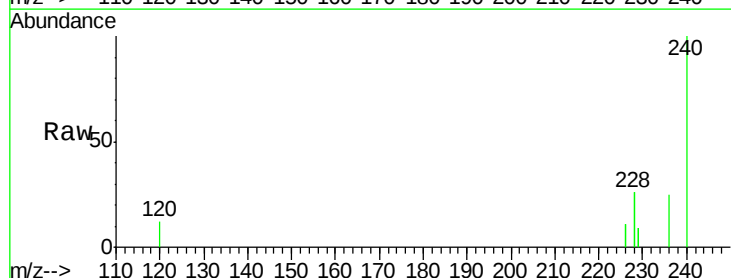
Tgt Ion:228 Resp: 1186

Ion Ratio Lower Upper

228 100

226 43.5 21.0 31.4#

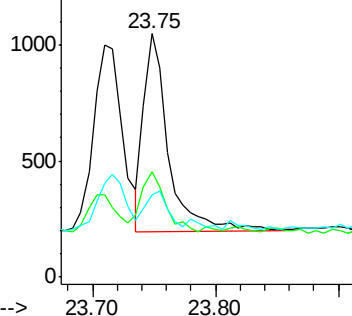
229 34.0 16.7 25.1#



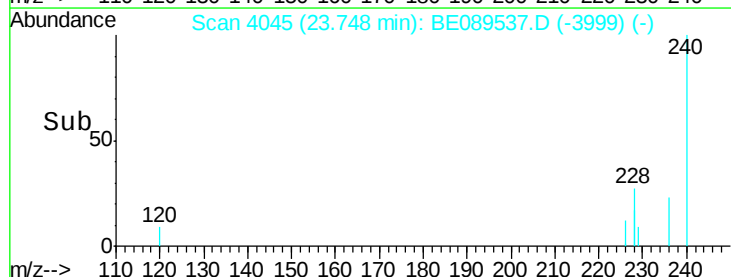
Abundance Ion 228.00 (227.70 to 228.70): E

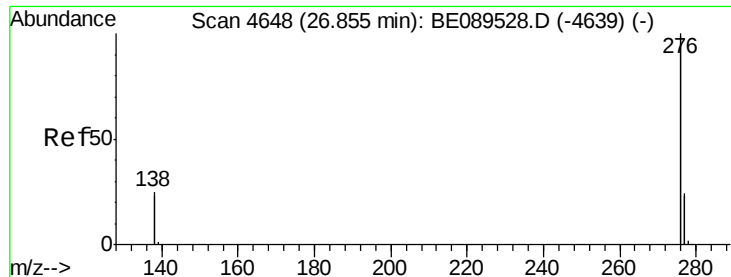
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.02 ng

RT: 26.85 min Scan# 4648

Delta R.T. -0.01 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampleId :

PB81591BL

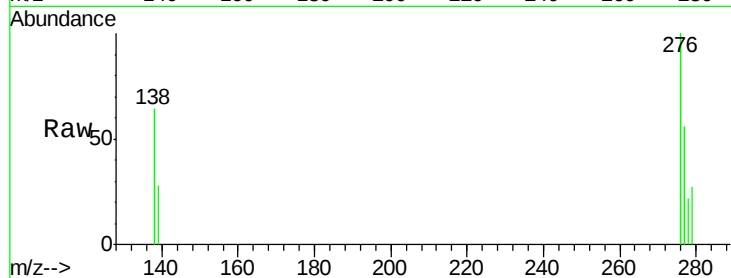
Tgt Ion:276 Resp: 1214

Ion Ratio Lower Upper

276 100

138 14.6 23.0 34.4#

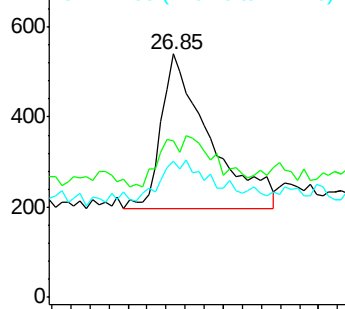
277 0.0 19.9 29.9#



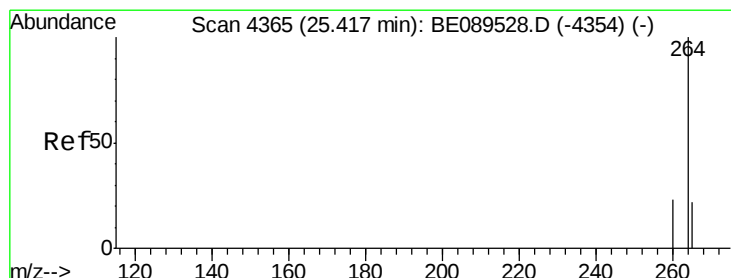
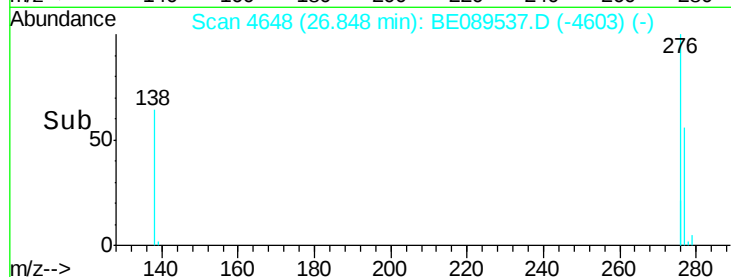
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



Time-->



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4366

Delta R.T. -0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

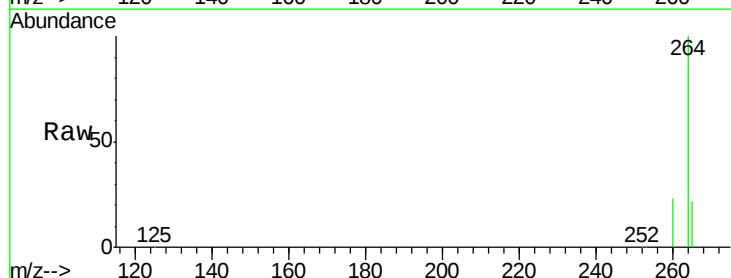
Tgt Ion:264 Resp: 77747

Ion Ratio Lower Upper

264 100

260 23.2 18.7 28.1

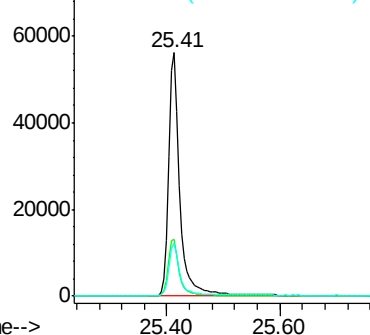
265 21.6 17.5 26.3



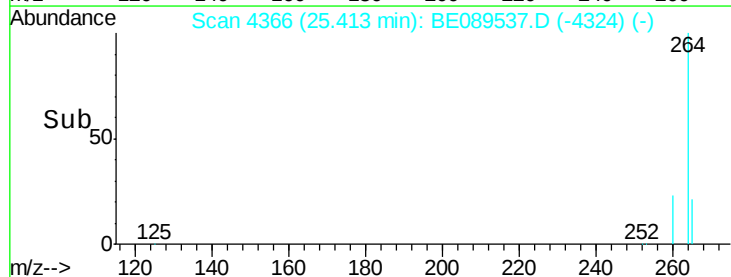
Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



Time-->





#23

Benzo(b)fluoranthene

Concen: 0.01 ng

RT: 24.98 min Scan# 4270

Delta R.T. -0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampleId :

PB81591BL

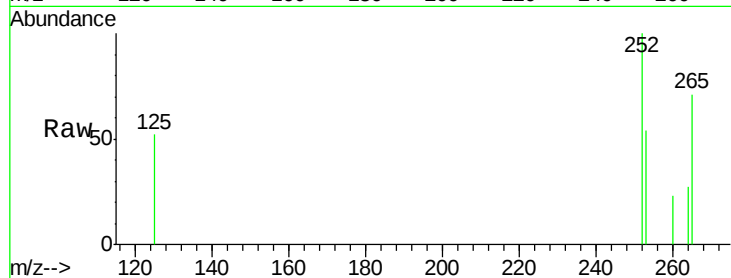
Tgt Ion:252 Resp: 219

Ion Ratio Lower Upper

252 100

253 54.0 17.4 26.0#

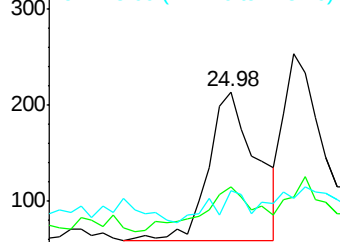
125 51.6 10.4 15.6#



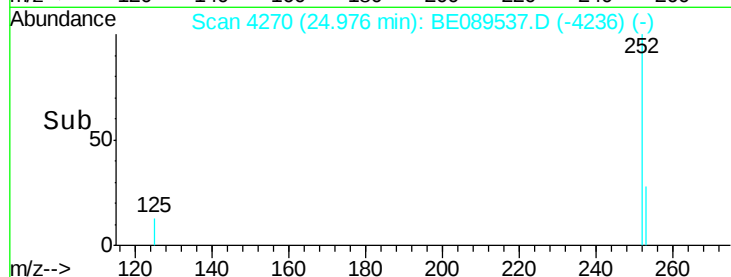
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time--> 24.90 24.95 25.00



#24

Benzo(k)fluoranthene

Concen: 0.01 ng

RT: 25.00 min Scan# 4276

Delta R.T. -0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

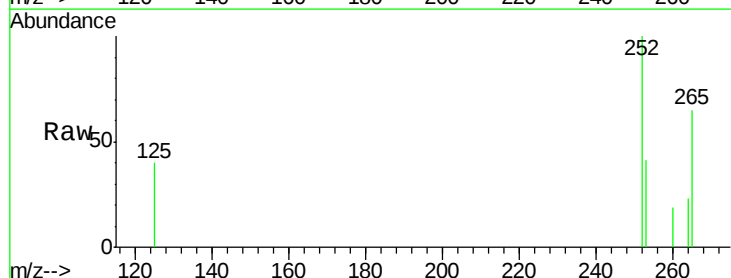
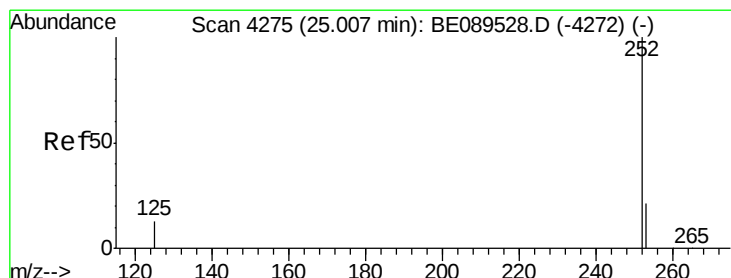
Tgt Ion:252 Resp: 268

Ion Ratio Lower Upper

252 100

253 41.1 17.2 25.8#

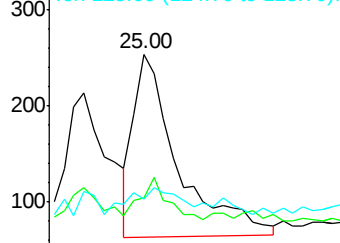
125 40.3 10.6 15.8#



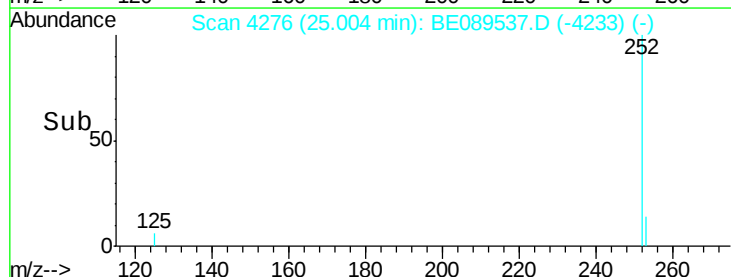
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time--> 25.00 25.05





#25

Benzo(a)pyrene

Concen: 0.01 ng

RT: 25.35 min Scan# 4351

Delta R.T. -0.00 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

Instrument :

BNA_E

ClientSampleId :

PB81591BL

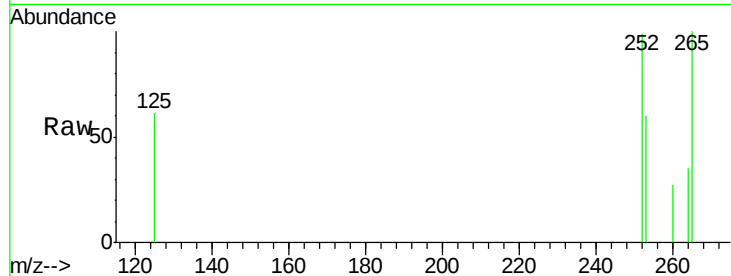
Tgt Ion: 252 Resp: 194

Ion Ratio Lower Upper

252 100

253 59.9 17.8 26.6#

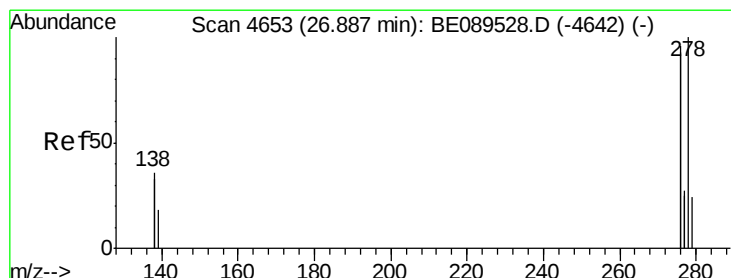
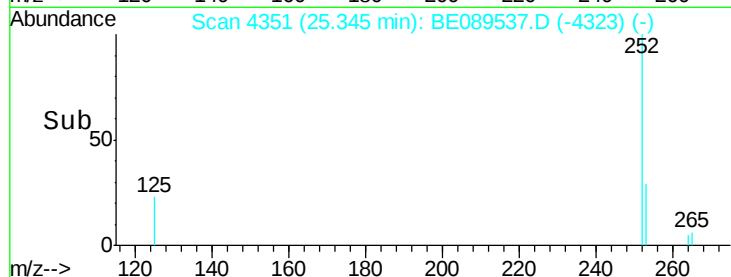
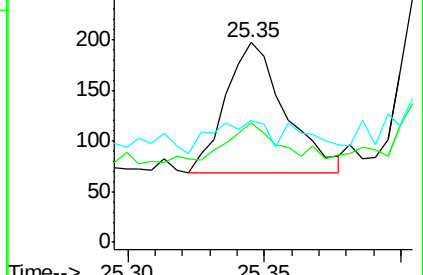
125 61.4 11.4 17.2#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 26.88 min Scan# 4653

Delta R.T. -0.01 min

Lab File: BE089537.D

Acq: 6 Feb 2015 21:41

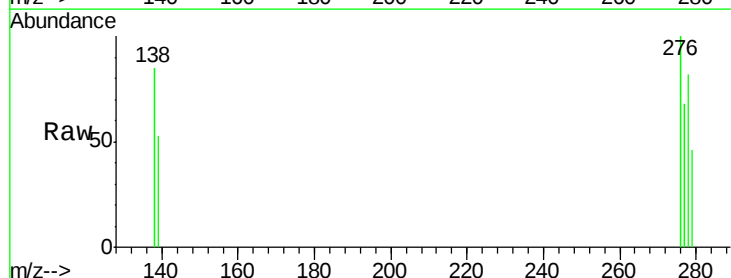
Tgt Ion: 278 Resp: 278

Ion Ratio Lower Upper

278 100

139 64.3 15.7 23.5#

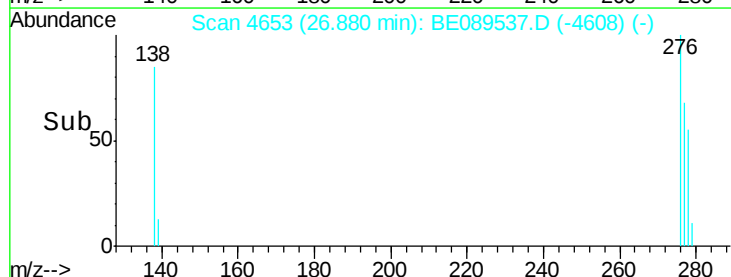
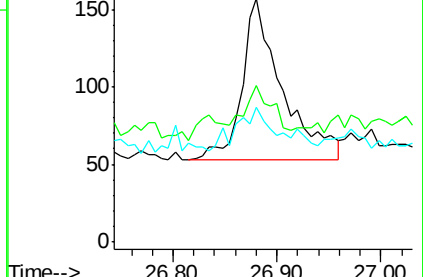
279 55.4 19.5 29.3#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27
 Benzo(g,h,i)perylene
 Concen: 0.03 ng
 RT: 27.28 min Scan# 4714
 Delta R.T. -0.01 min
 Lab File: BE089537.D
 Acq: 6 Feb 2015 21:41

Instrument :
 BNA_E
 ClientSampleId :
 PB81591BL

Tgt Ion: 276 Resp: 1899
 Ion Ratio Lower Upper
 276 100
 277 41.8 18.6 27.8#
 138 50.7 20.9 31.3#

