

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089837.D
 Acq On : 25 Mar 2015 8:16
 Operator : TP/JJ
 Sample : G1575-09
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FB-031715

Quant Time: Mar 25 17:07:11 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 25 16:20:31 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	1045977	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	3642888	5.00	ng	0.00
8) Acenaphthene-d10	14.39	164	1602784	5.00	ng	0.00
13) Phenanthrene-d10	17.94	188	2598273	5.00	ng	0.02
19) Chrysene-d12	24.27	240	2358025	5.00	ng	0.01
25) Perylene-d12	27.43	264	2213911	5.00	ng	0.02

System Monitoring Compounds						
5) Nitrobenzene-d5	8.71	82	7661369	28.21	ng	0.03
9) 2-Fluorobiphenyl	12.88	172	10095426	26.92	ng	0.03
21) Terphenyl-d14	21.90	244	9649776	27.74	ng	0.04

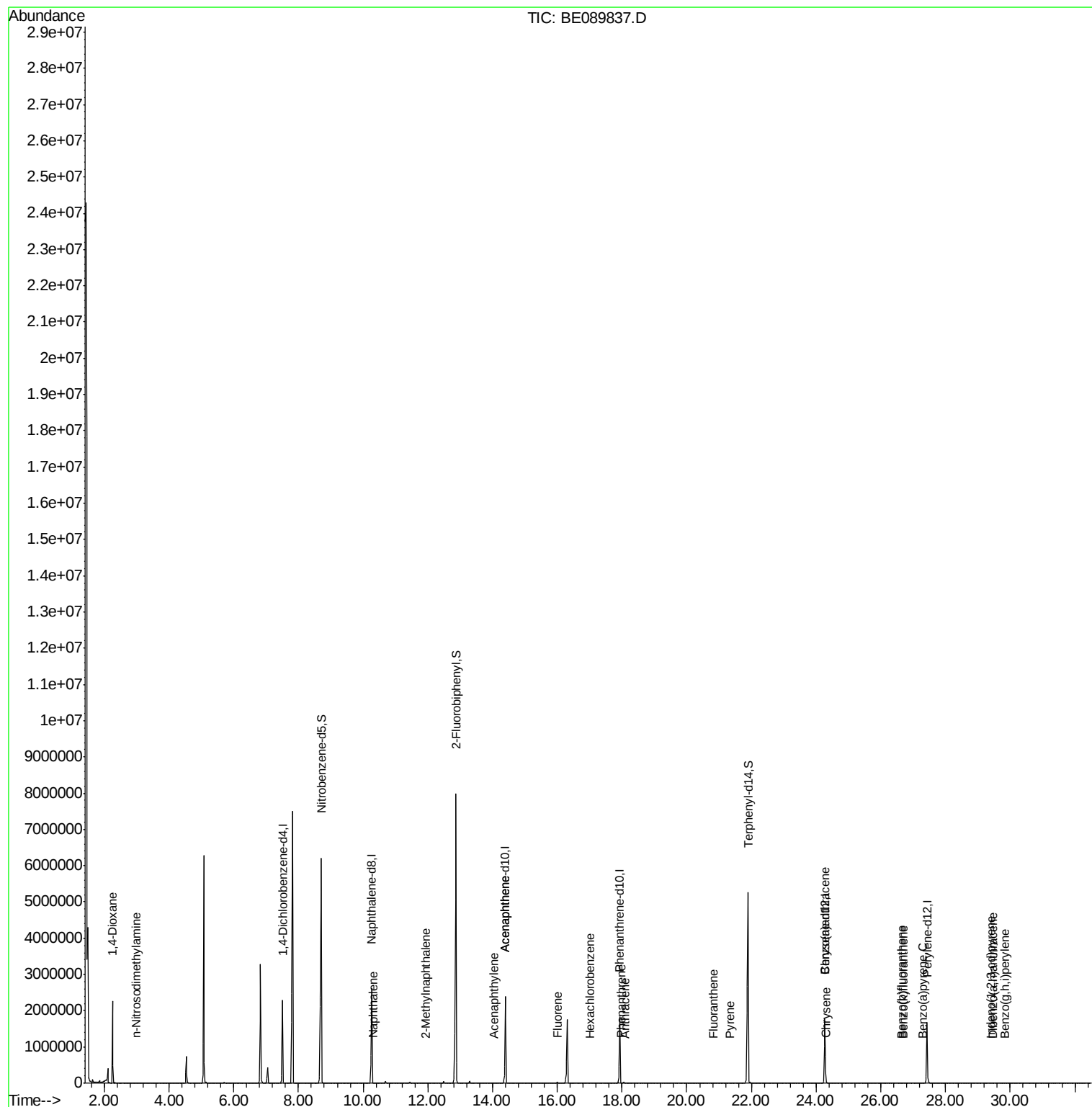
Target Compounds						Qvalue
2) 1,4-Dioxane	2.26	88	67438	0.50	ng	# 1
3) n-Nitrosodimethylamine	2.99	42	487	0.00	ng	# 19
6) Naphthalene	10.31	128	6922	0.01	ng	# 99
7) 2-Methylnaphthalene	11.93	142	379	0.00	ng	# 1
10) Acenaphthylene	14.04	152	672	0.00	ng	# 74
11) Acenaphthene	14.39	154	6115	0.02	ng	# 1
12) Fluorene	16.00	166	29535	0.07	ng	# 19
14) Hexachlorobenzene	17.02	284	48	0.00	ng	# 24
15) Pentachlorophenol	17.33	266	49	Below Cal		# 92
16) Phenanthrene	17.98	178	1179	0.00	ng	# 77
17) Anthracene	18.10	178	495	0.00	ng	# 80
18) Fluoranthene	20.83	202	1366	0.00	ng	# 92
20) Pyrene	21.35	202	1428	0.00	ng	# 85
22) Benzo(a)anthracene	24.27	228	7369	0.02	ng	# 74
23) Chrysene	24.33	228	1433	0.00	ng	# 90
24) Indeno(1,2,3-cd)pyrene	29.39	276	714	0.42	ng	# 78
26) Benzo(b)fluoranthene	26.64	252	1059	0.31	ng	# 60
27) Benzo(k)fluoranthene	26.70	252	1012	0.00	ng	# 63
28) Benzo(a)pyrene	27.30	252	797	0.30	ng	# 60
29) Dibenzo(a,h)anthracene	29.46	278	550	0.26	ng	# 33
30) Benzo(g,h,i)perylene	29.83	276	1070	0.25	ng	# 83

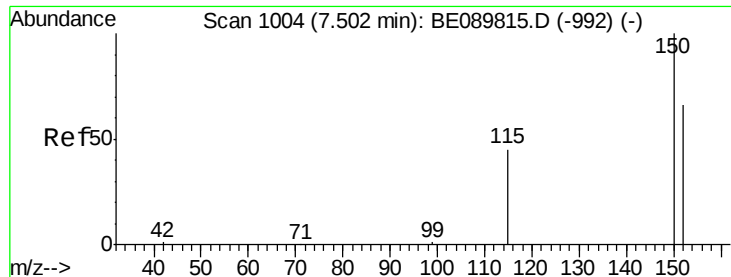
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.51 min Scan# 1005

Delta R.T. 0.01 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

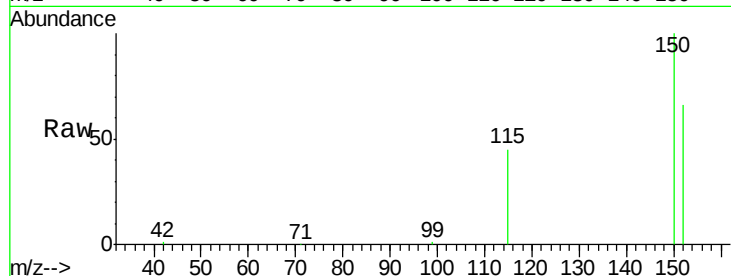
Tgt Ion:152 Resp: 1045977

Ion Ratio Lower Upper

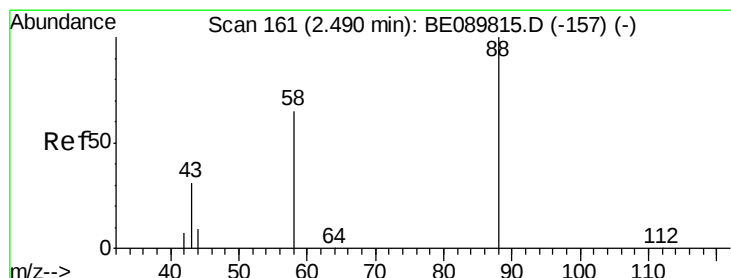
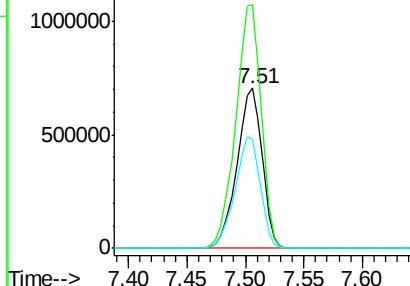
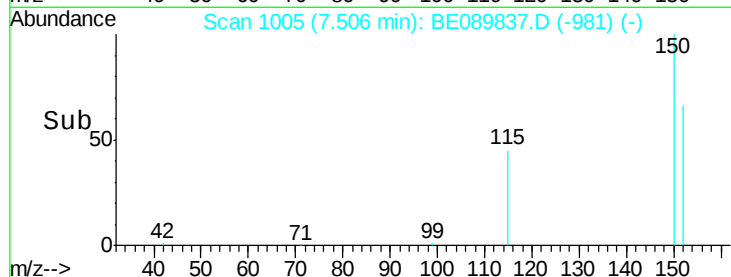
152 100

150 152.1 125.5 188.3

115 68.6 58.0 87.0



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

1,4-Dioxane

Concen: 0.50 ng

RT: 2.26 min Scan# 127

Delta R.T. -0.26 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

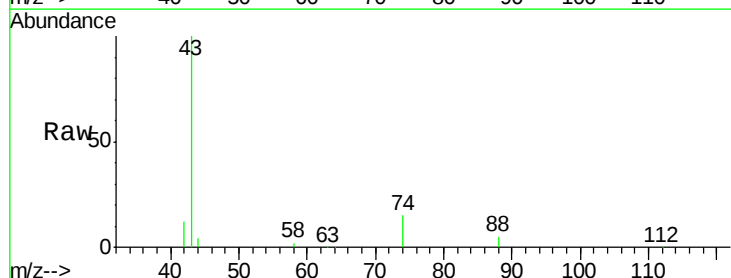
Tgt Ion: 88 Resp: 67438

Ion Ratio Lower Upper

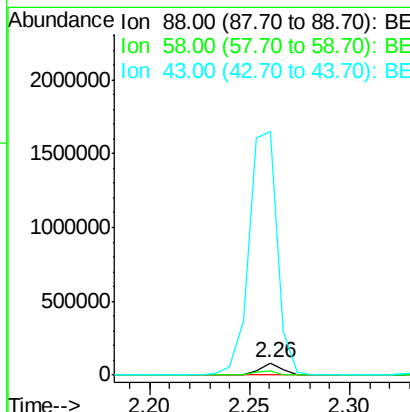
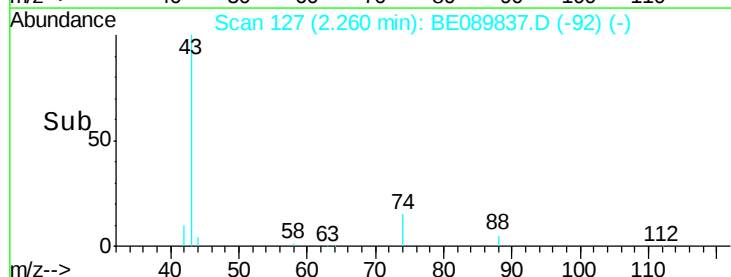
88 100

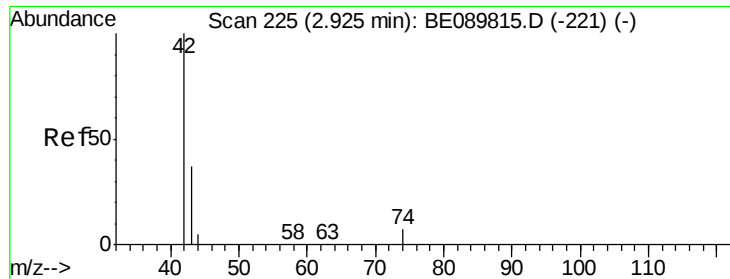
58 30.9 48.6 72.8#

43 2397.7 28.6 43.0#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.00 ng

RT: 2.99 min Scan# 235

Delta R.T. 0.00 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

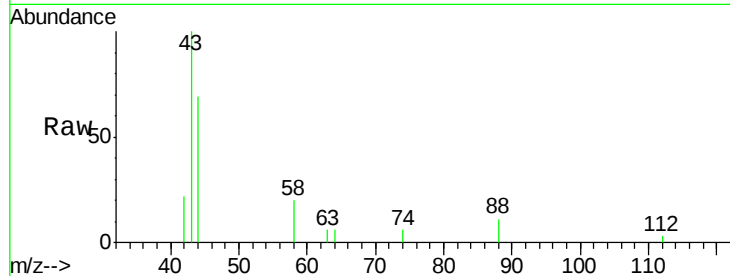
Tgt Ion: 42 Resp: 487

Ion Ratio Lower Upper

42 100

74 21.4 68.7 103.1#

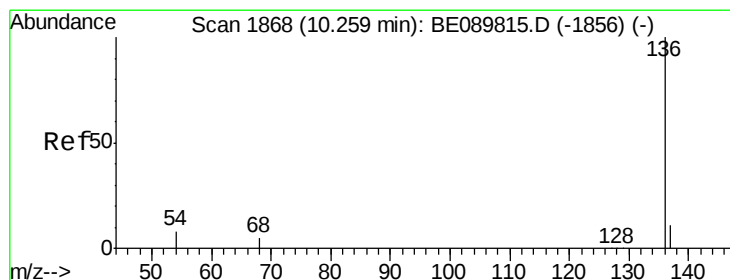
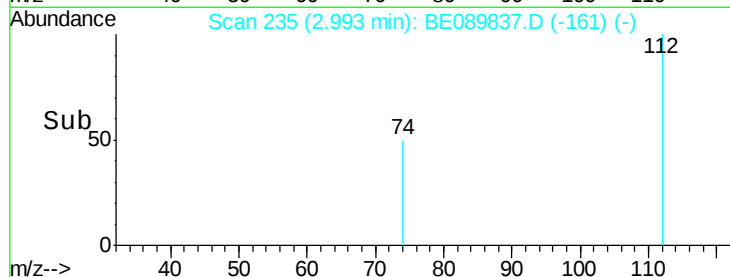
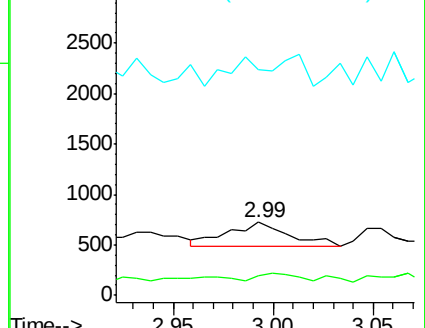
44 78.0 6.2 9.4#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.26 min Scan# 1869

Delta R.T. 0.01 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

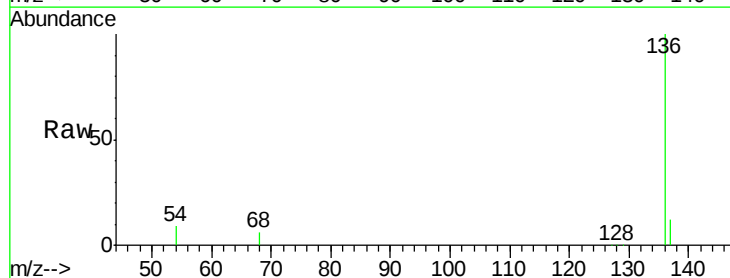
Tgt Ion: 136 Resp: 3642888

Ion Ratio Lower Upper

136 100

137 11.5 8.8 13.2

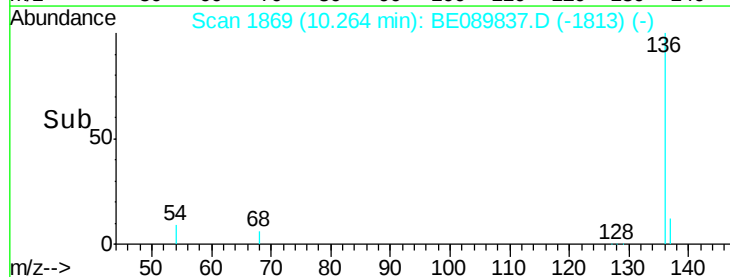
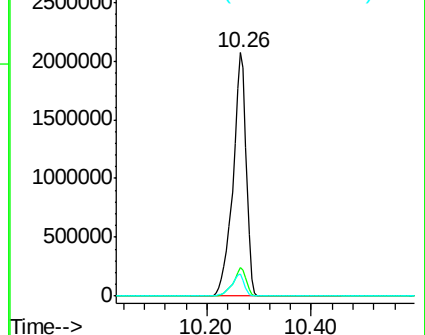
54 9.0 7.0 10.4

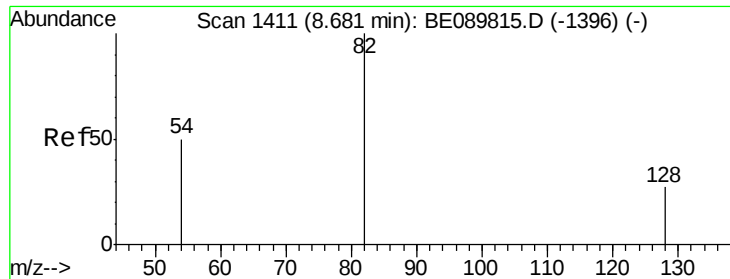


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 28.21 ng

RT: 8.71 min Scan# 1423

Delta R.T. 0.03 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

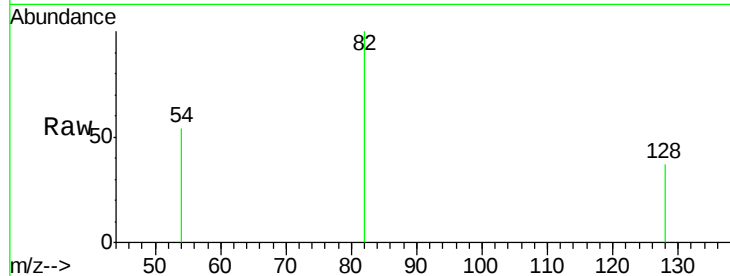
Tgt Ion: 82 Resp: 7661369

Ion Ratio Lower Upper

82 100

128 36.9 24.6 37.0

54 54.3 43.0 64.6



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

8.71

4000000

3000000

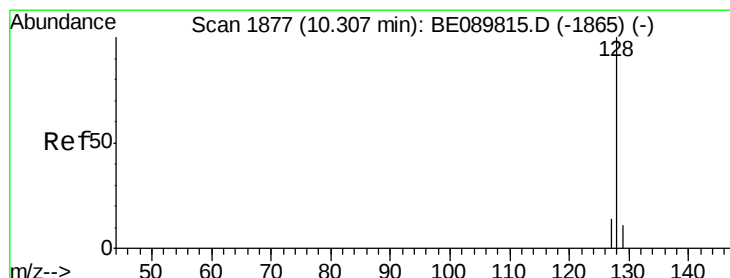
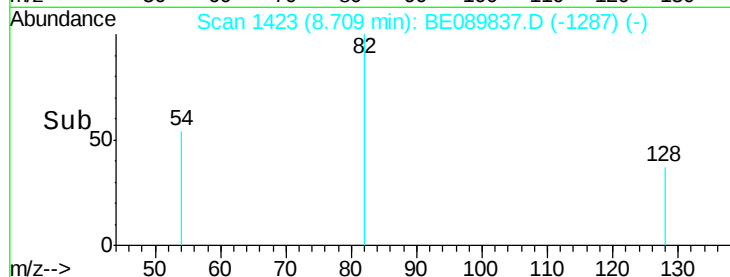
2000000

1000000

0

Time-->

8.60 8.70 8.80



#6

Naphthalene

Concen: 0.01 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

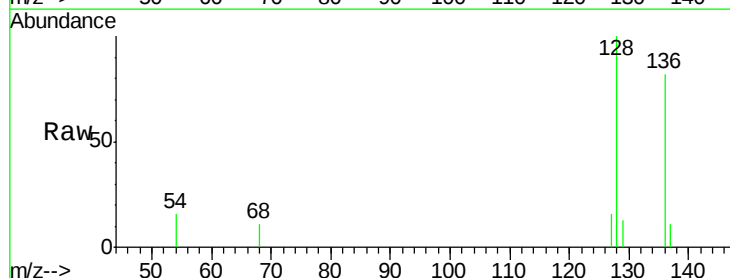
Tgt Ion: 128 Resp: 6922

Ion Ratio Lower Upper

128 100

129 13.0 10.0 15.0

127 15.7 12.5 18.7



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

5000

4000

3000

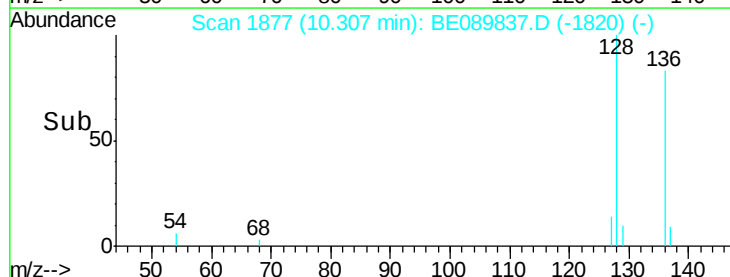
2000

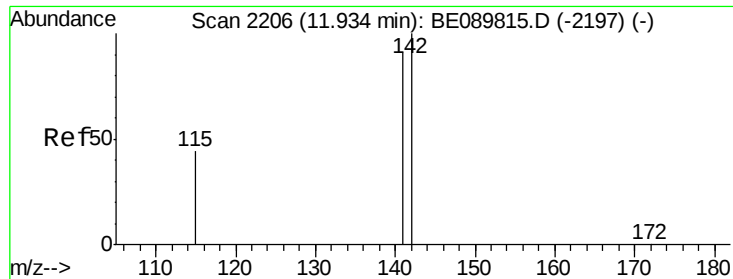
1000

0

Time-->

10.20 10.30 10.40





#7

2-Methylnaphthalene

Concen: 0.00 ng

RT: 11.93 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

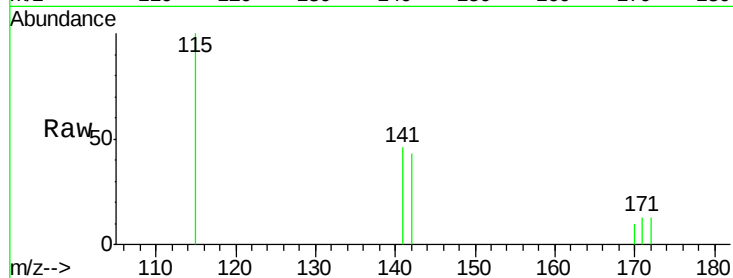
Tgt Ion:142 Resp: 379

Ion Ratio Lower Upper

142 100

141 108.0 72.8 109.2

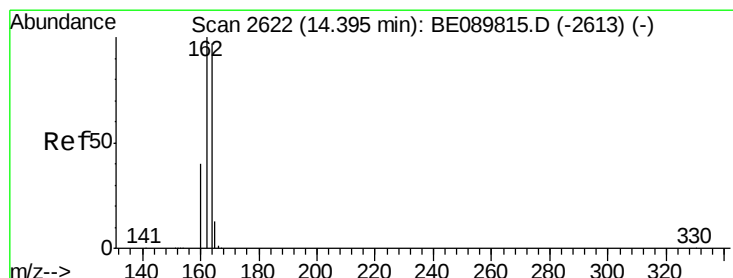
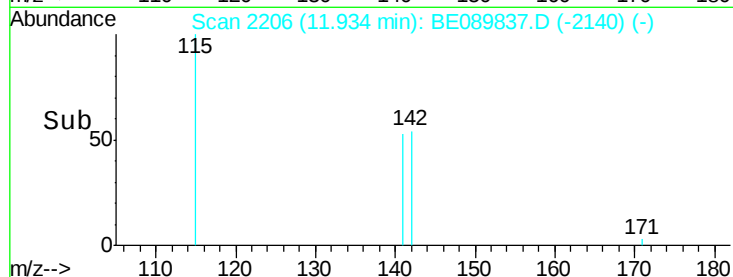
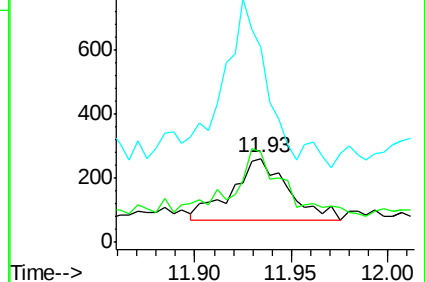
115 233.7 32.9 49.3#



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.39 min Scan# 2622

Delta R.T. 0.01 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

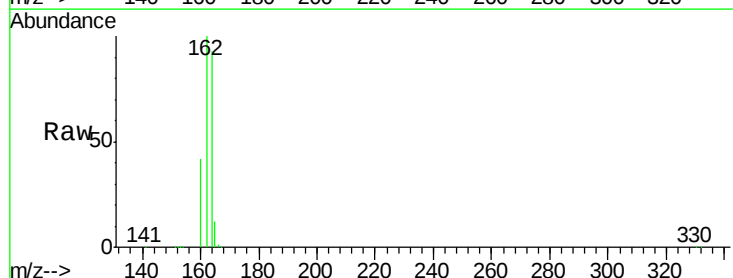
Tgt Ion:164 Resp: 1602784

Ion Ratio Lower Upper

164 100

162 107.0 87.6 131.4

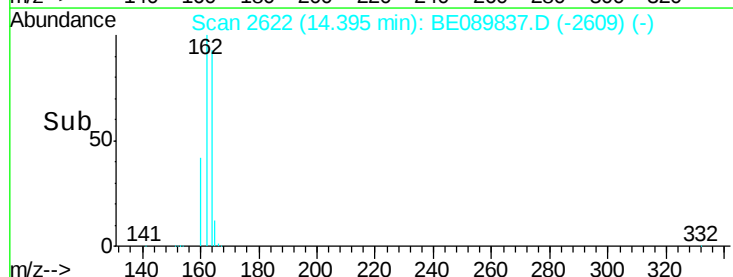
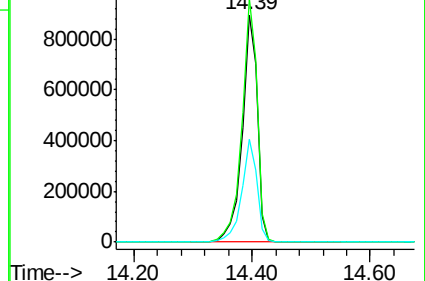
160 45.1 36.7 55.1

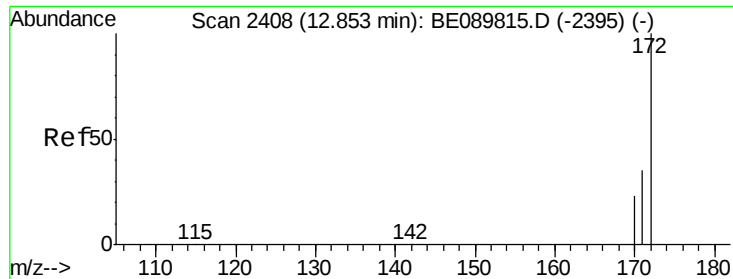


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 26.92 ng

RT: 12.88 min Scan# 2413

Delta R.T. 0.03 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

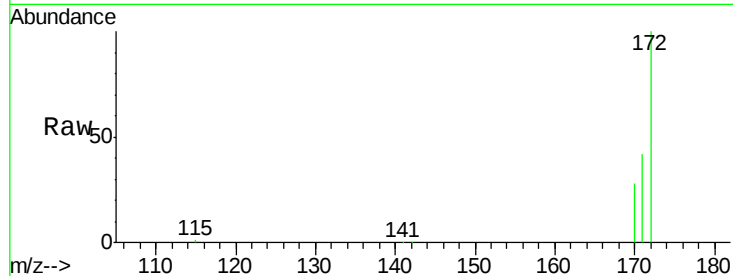
Tgt Ion:172 Resp:10095426

Ion Ratio Lower Upper

172 100

171 42.3 30.8 46.2

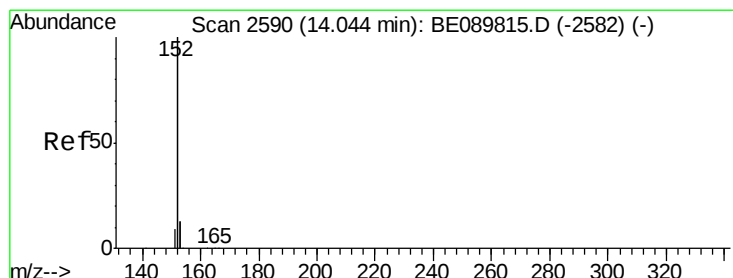
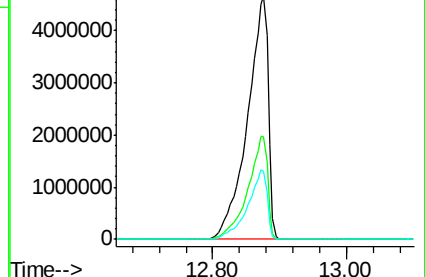
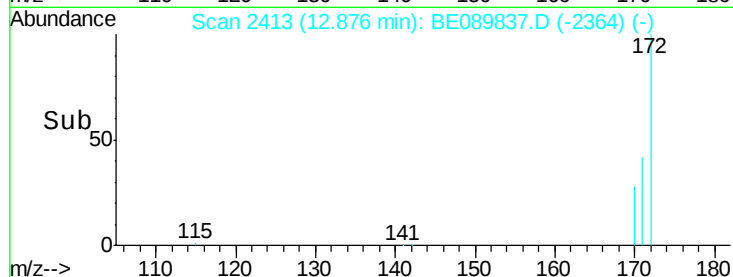
170 27.9 21.0 31.4



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



#10

Acenaphthylene

Concen: 0.00 ng

RT: 14.04 min Scan# 2590

Delta R.T. -0.00 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

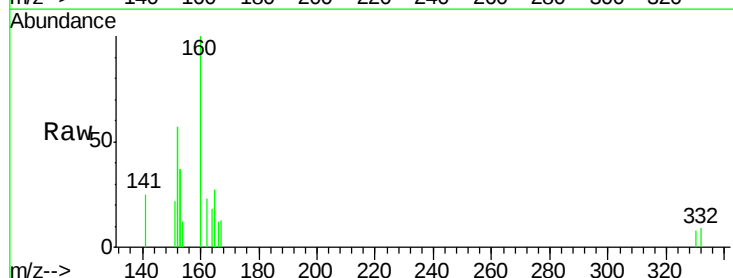
Tgt Ion:152 Resp: 672

Ion Ratio Lower Upper

152 100

151 6.3 3.9 5.9#

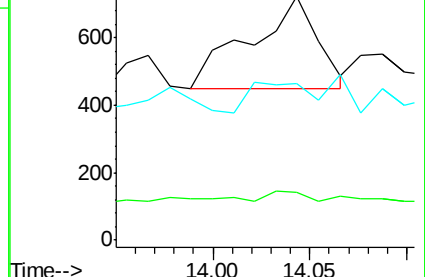
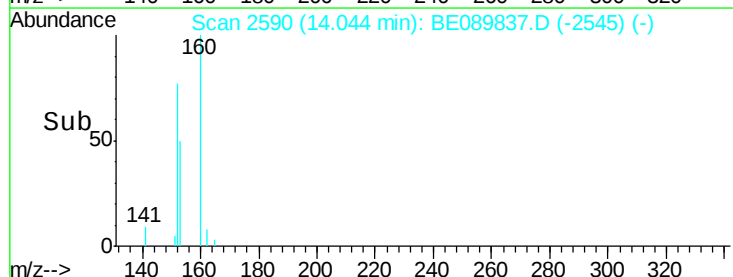
153 0.0 11.0 16.4#

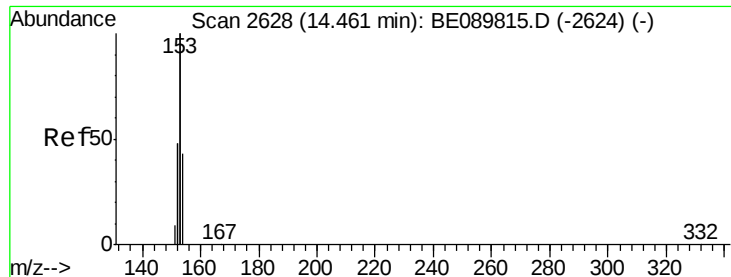


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.02 ng

RT: 14.39 min Scan# 2622

Delta R.T. -0.07 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

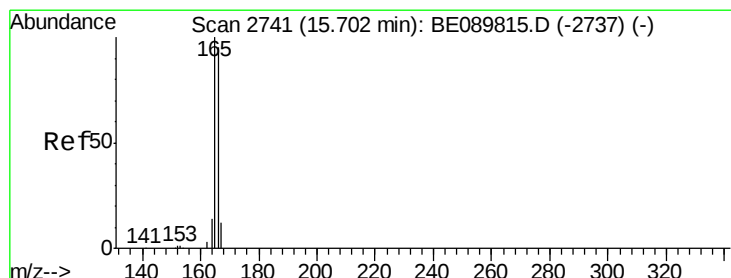
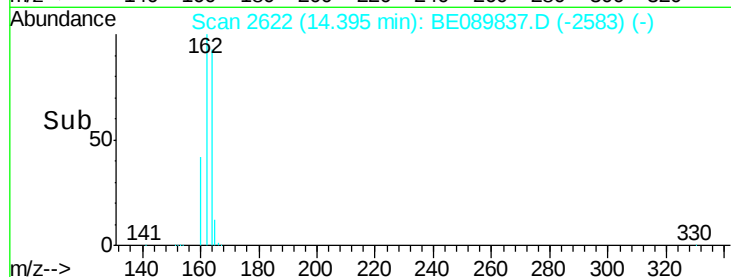
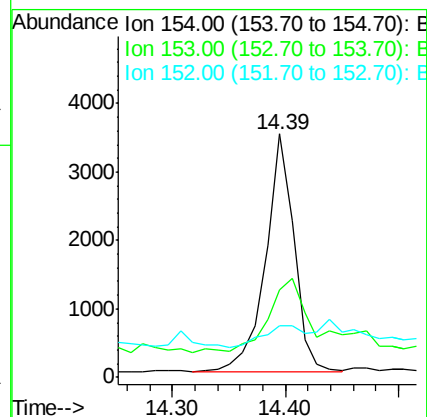
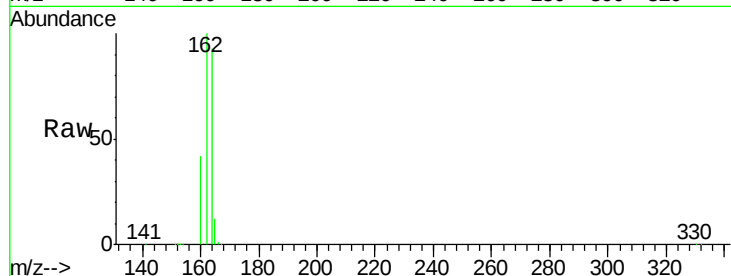
Tgt Ion:154 Resp: 6115

Ion Ratio Lower Upper

154 100

153 48.3 401.5 602.3#

152 13.6 198.6 298.0#



#12

Fluorene

Concen: 0.07 ng

RT: 16.00 min Scan# 2768

Delta R.T. 0.28 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

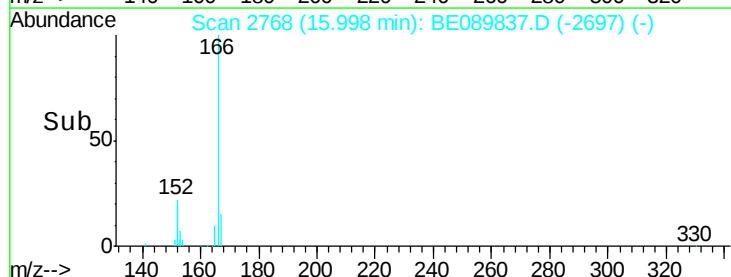
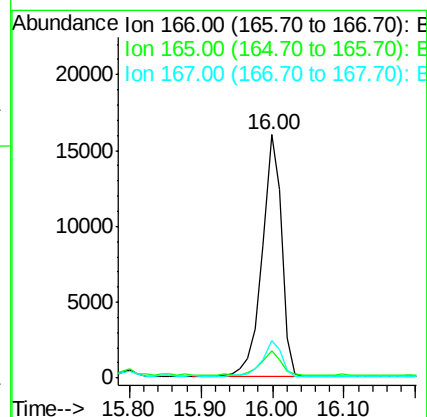
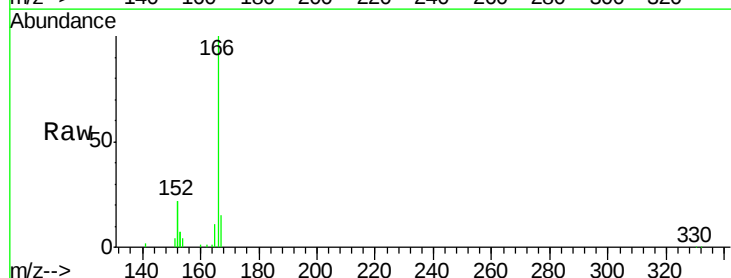
Tgt Ion:166 Resp: 29535

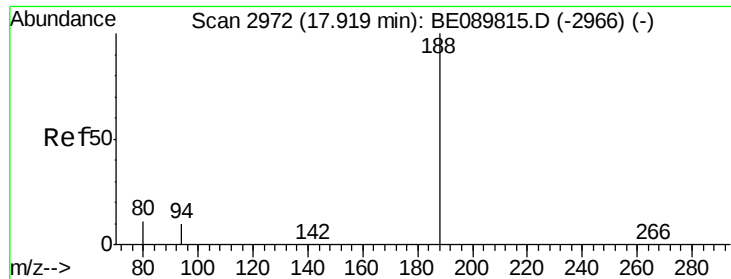
Ion Ratio Lower Upper

166 100

165 10.7 85.1 127.7#

167 14.5 12.2 18.4





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.94 min Scan# 2974

Delta R.T. 0.02 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

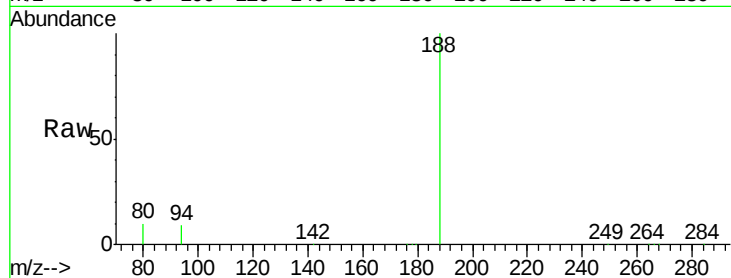
Tgt Ion:188 Resp: 2598273

Ion Ratio Lower Upper

188 100

94 8.6 8.5 12.7

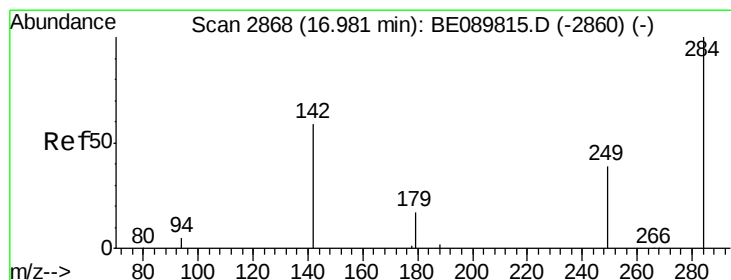
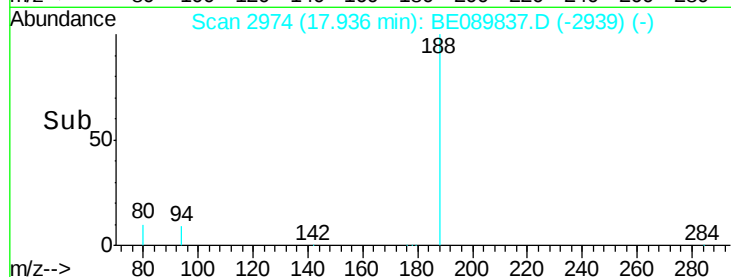
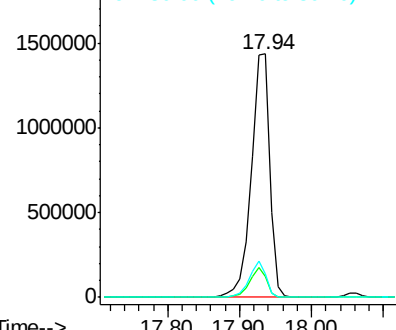
80 9.6 10.0 15.0#



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



#14

Hexachlorobenzene

Concen: 0.00 ng

RT: 17.02 min Scan# 2872

Delta R.T. 0.03 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

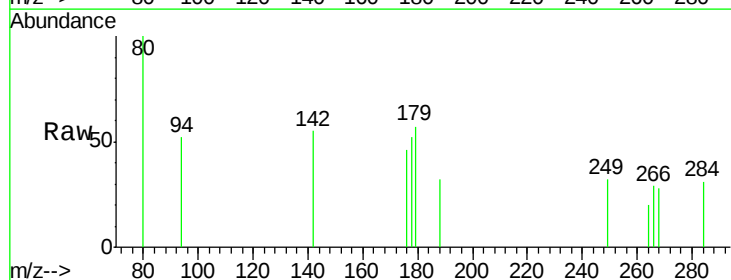
Tgt Ion:284 Resp: 48

Ion Ratio Lower Upper

284 100

142 0.0 53.3 79.9#

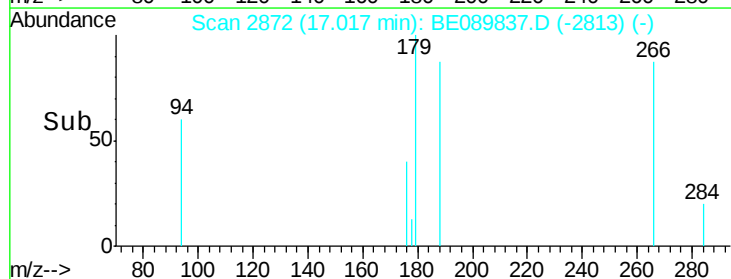
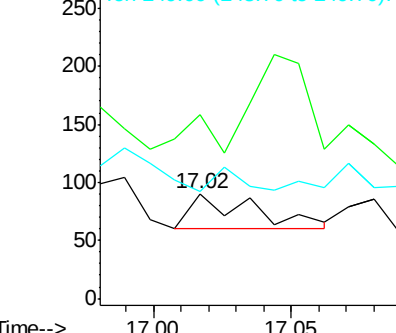
249 0.0 31.1 46.7#

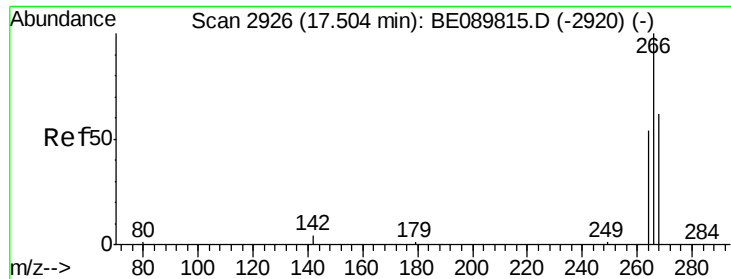


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

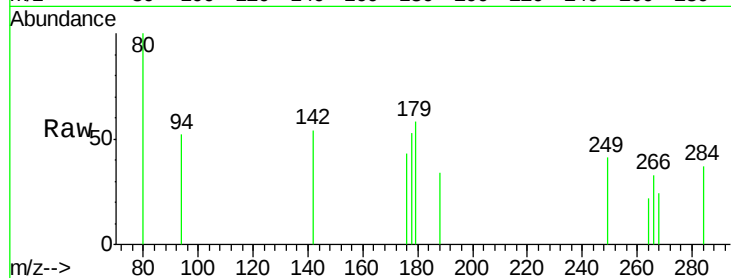




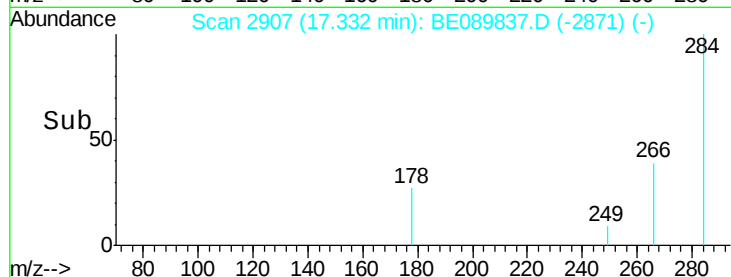
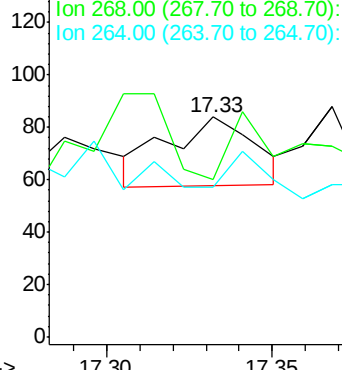
#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 17.33 min Scan# 2907
 Delta R.T. -0.17 min
 Lab File: BE089837.D
 Acq: 25 Mar 2015 8:16

Instrument :
 BNA_E
 ClientSampleId :
 FB-031715

Tgt Ion: 266 Resp: 49
 Ion Ratio Lower Upper
 266 100
 268 71.4 51.6 77.4
 264 67.9 50.2 75.2

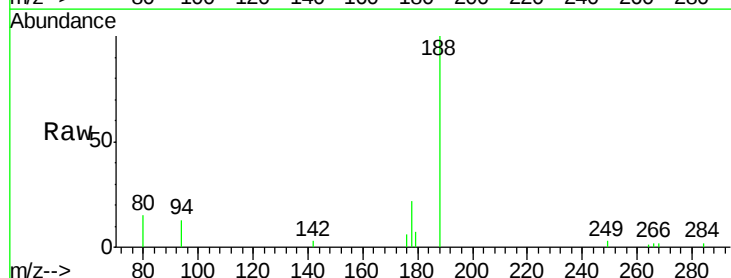
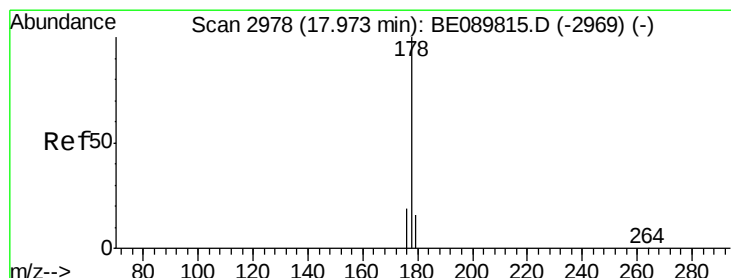


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

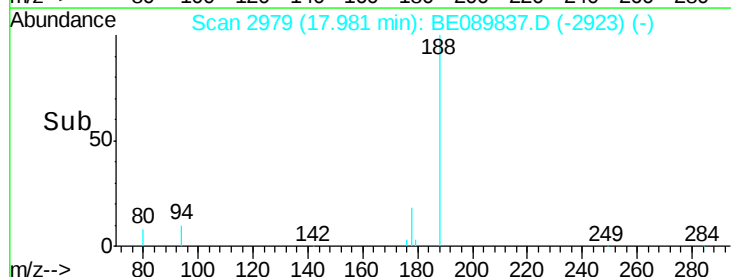
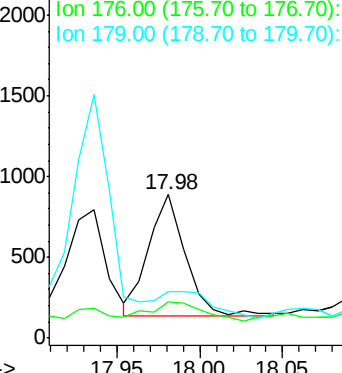


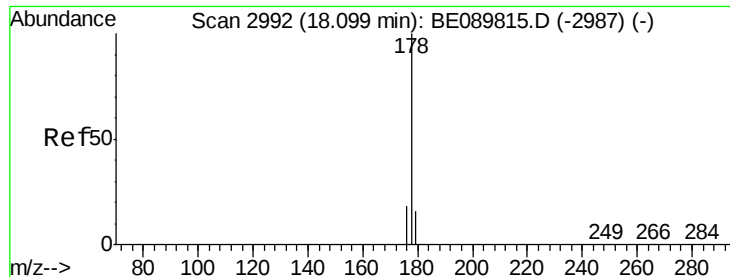
#16
 Phenanthrene
 Concen: 0.00 ng
 RT: 17.98 min Scan# 2979
 Delta R.T. 0.01 min
 Lab File: BE089837.D
 Acq: 25 Mar 2015 8:16

Tgt Ion: 178 Resp: 1179
 Ion Ratio Lower Upper
 178 100
 176 21.8 15.4 23.0
 179 33.9 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





#17

Anthracene

Concen: 0.00 ng

RT: 18.10 min Scan# 2992

Delta R.T. -0.00 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

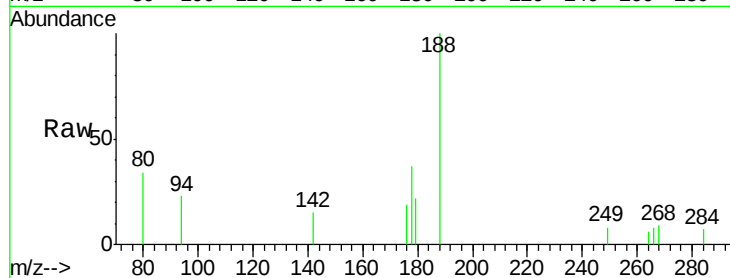
Tgt Ion:178 Resp: 495

Ion Ratio Lower Upper

178 100

176 24.8 14.6 21.8#

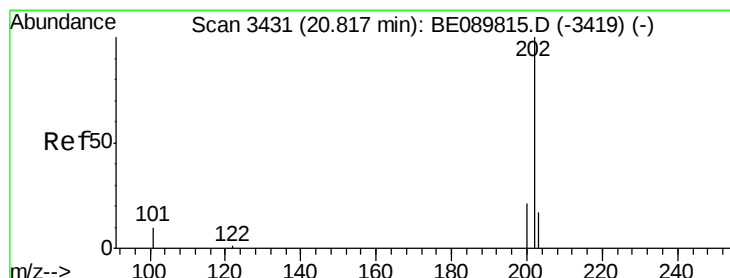
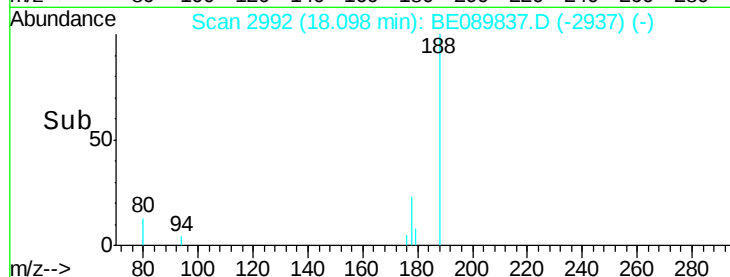
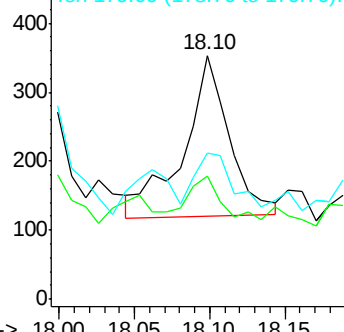
179 26.1 12.1 18.1#



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



#18

Fluoranthene

Concen: 0.00 ng

RT: 20.83 min Scan# 3433

Delta R.T. 0.01 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

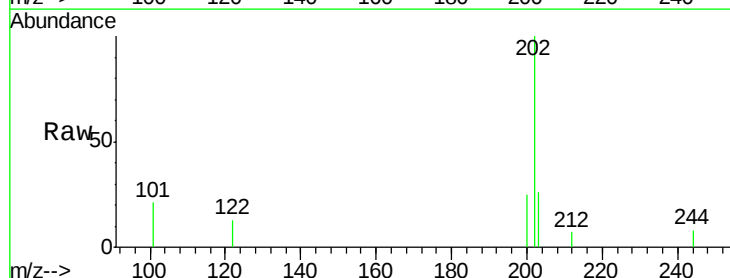
Tgt Ion:202 Resp: 1366

Ion Ratio Lower Upper

202 100

101 9.7 8.2 12.2

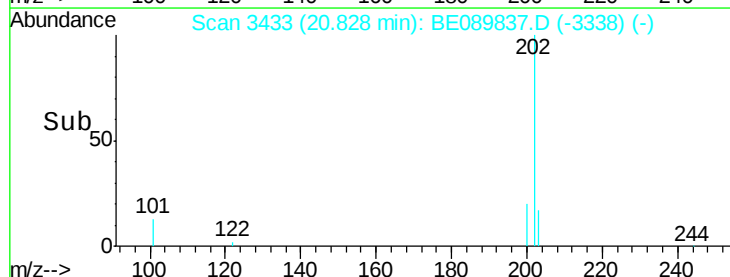
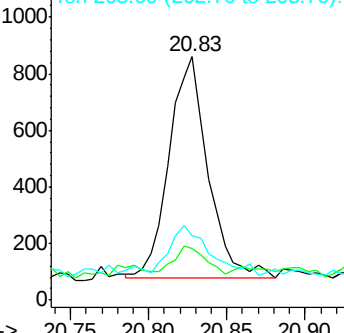
203 23.0 14.2 21.4#

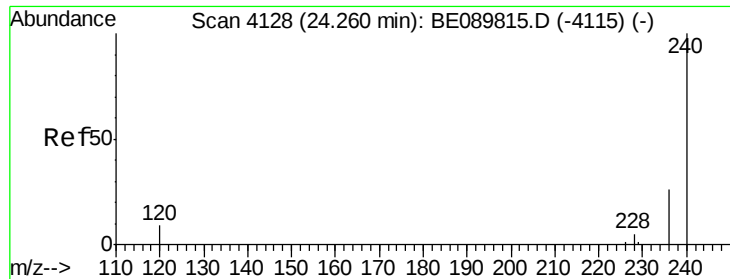


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 24.27 min Scan# 4131

Delta R.T. 0.01 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampled :

FB-031715

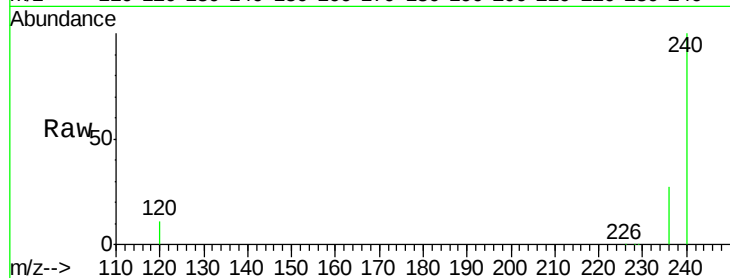
Tgt Ion:240 Resp: 2358025

Ion Ratio Lower Upper

240 100

120 10.9 7.5 11.3

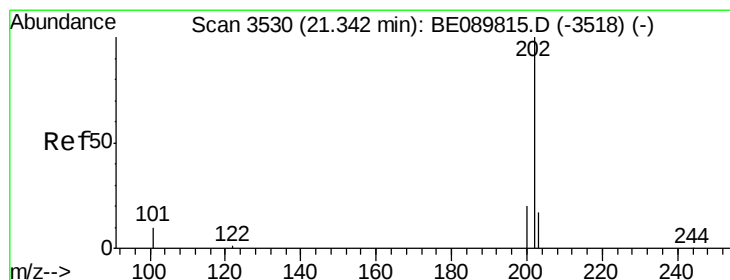
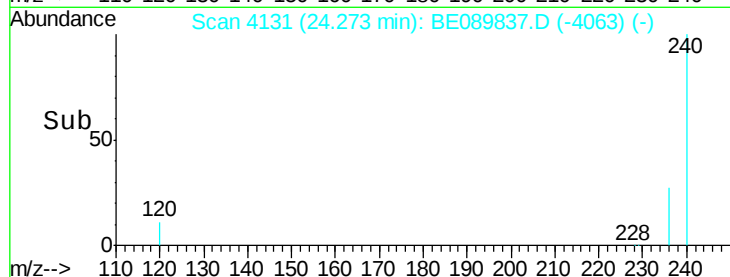
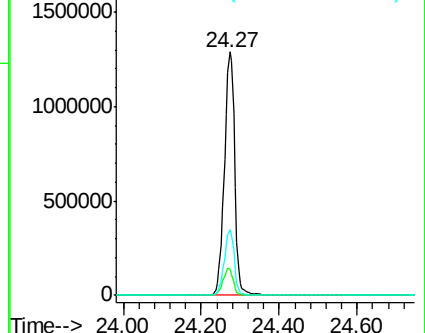
236 26.9 20.5 30.7



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



#20

Pyrene

Concen: 0.00 ng

RT: 21.35 min Scan# 3532

Delta R.T. 0.01 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

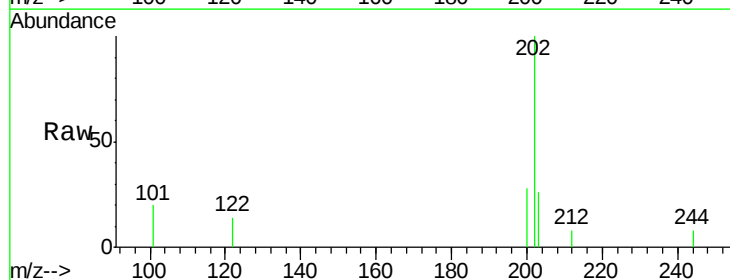
Tgt Ion:202 Resp: 1428

Ion Ratio Lower Upper

202 100

200 25.4 15.9 23.9#

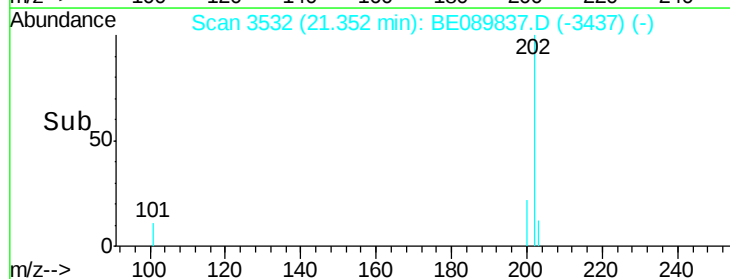
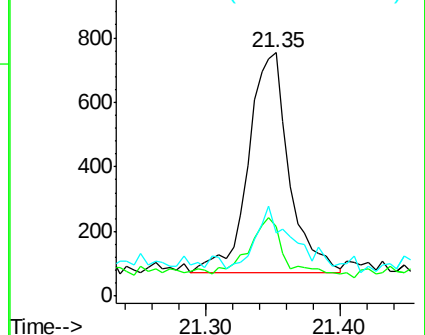
203 25.0 13.6 20.4#

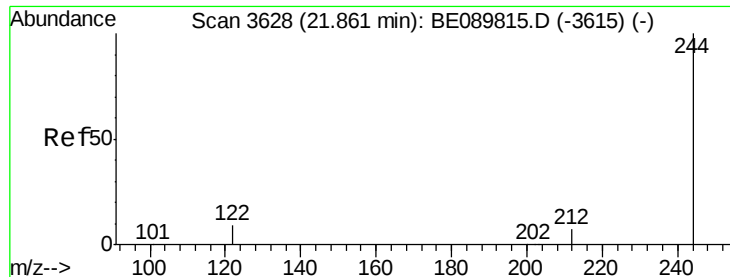


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 27.74 ng

RT: 21.90 min Scan# 3635

Delta R.T. 0.04 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

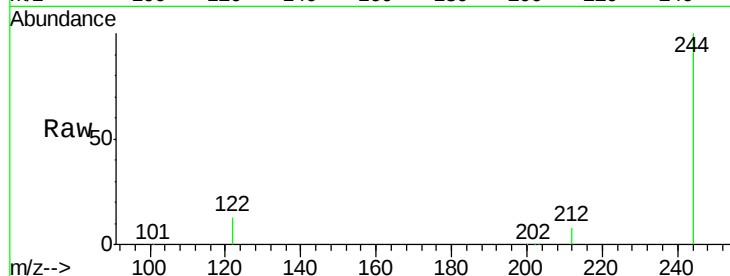
Tgt Ion:244 Resp: 9649776

Ion Ratio Lower Upper

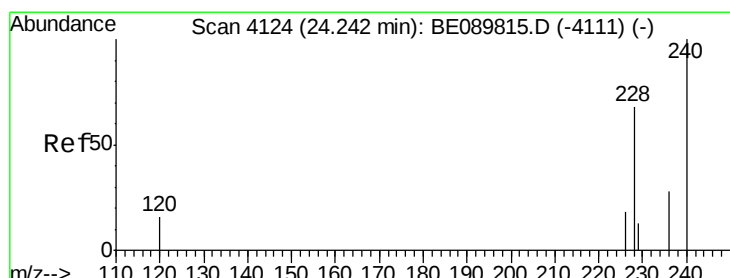
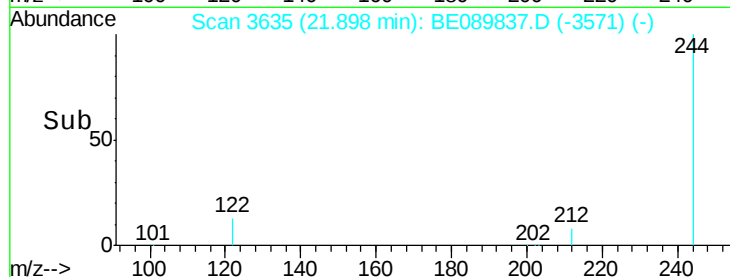
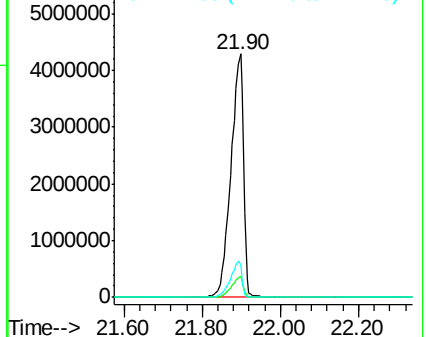
244 100

212 8.4 7.3 10.9

122 13.5 10.5 15.7



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



#22

Benzo(a)anthracene

Concen: 0.02 ng

RT: 24.27 min Scan# 4131

Delta R.T. 0.03 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

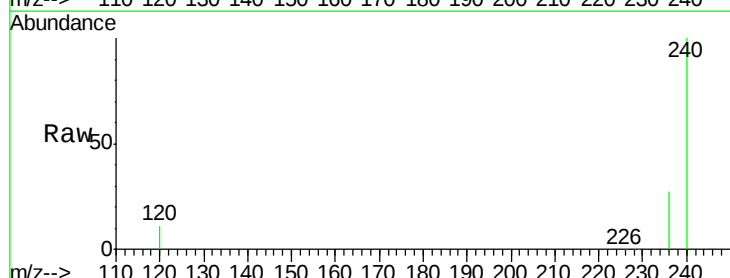
Tgt Ion:228 Resp: 7369

Ion Ratio Lower Upper

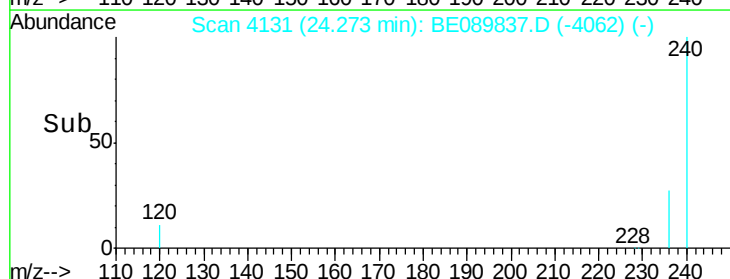
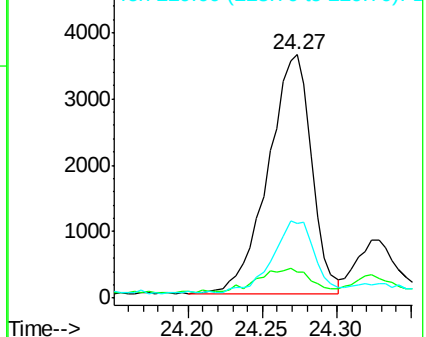
228 100

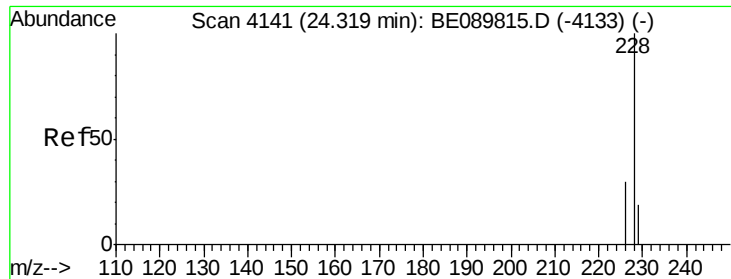
226 10.7 19.8 29.8#

229 30.9 16.3 24.5#



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





#23

Chrysene

Concen: 0.00 ng

RT: 24.33 min Scan# 4143

Delta R.T. 0.01 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

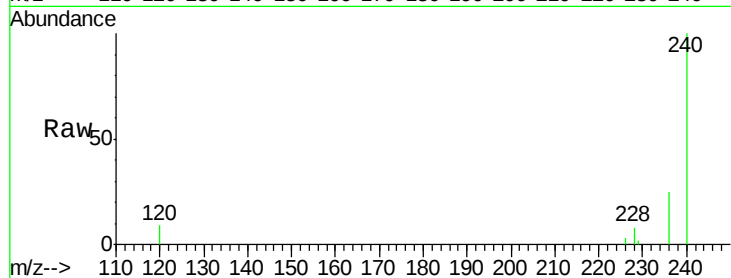
Tgt Ion:228 Resp: 1433

Ion Ratio Lower Upper

228 100

226 33.0 23.0 34.4

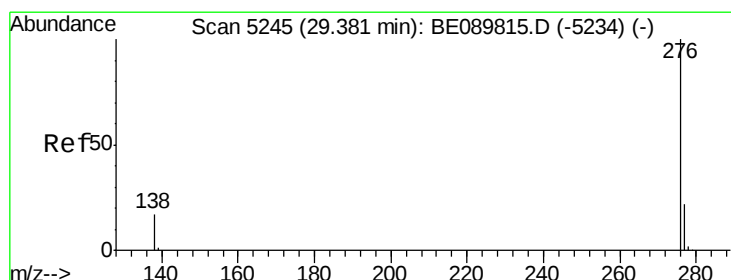
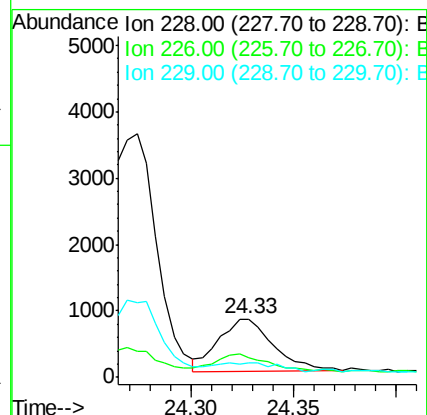
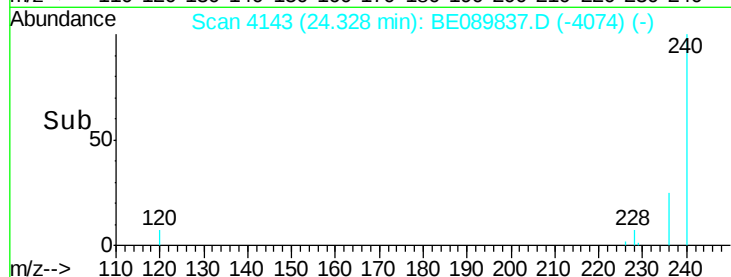
229 25.6 15.8 23.6#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.42 ng

RT: 29.39 min Scan# 5247

Delta R.T. 0.00 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

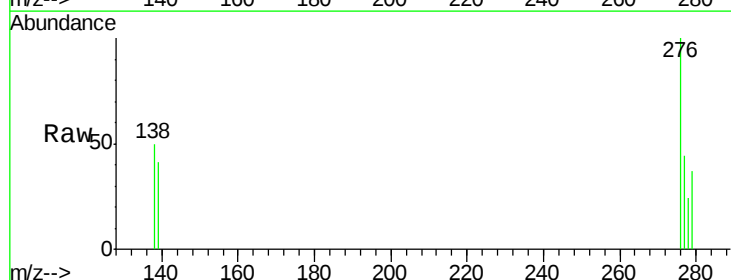
Tgt Ion:276 Resp: 714

Ion Ratio Lower Upper

276 100

138 2.7 4.3 6.5#

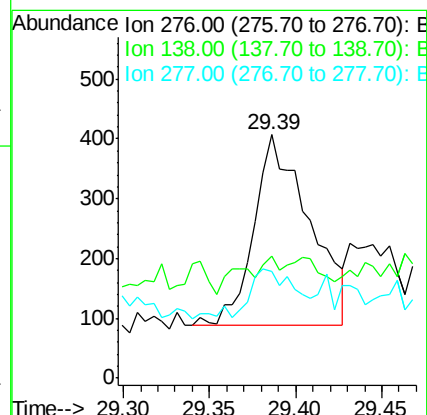
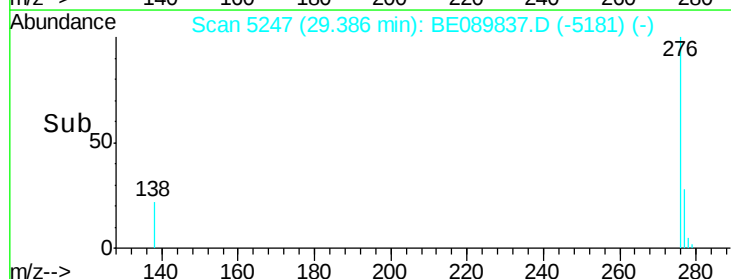
277 21.8 9.0 13.4#

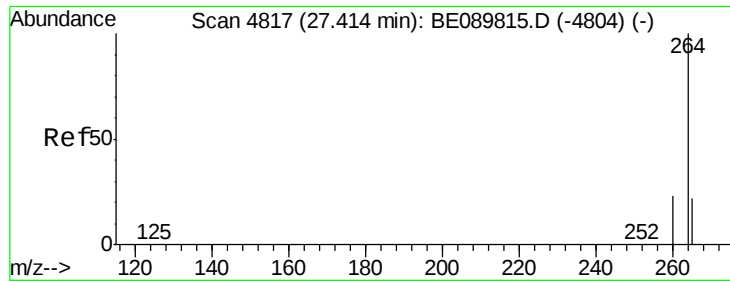


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

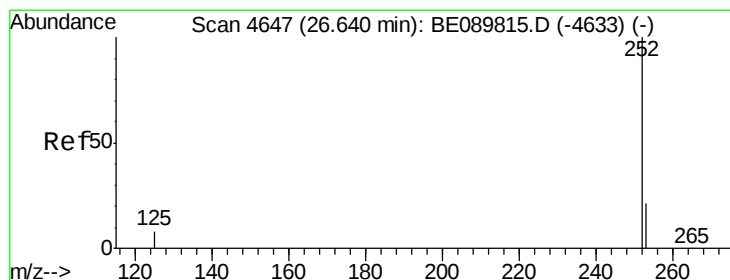
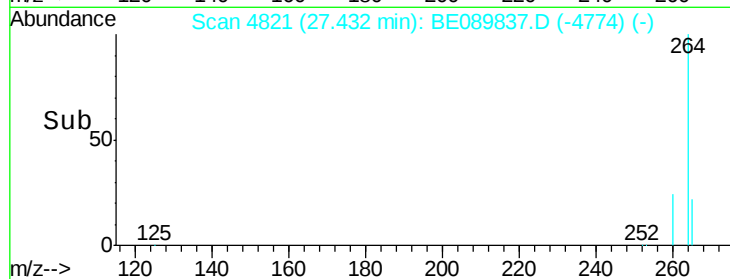
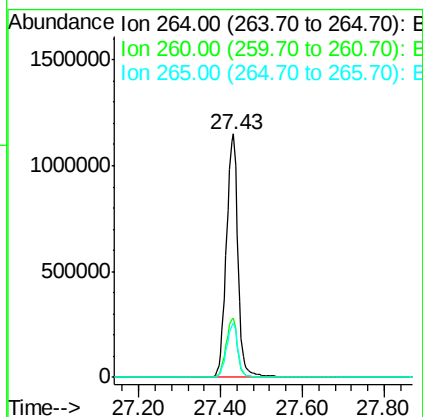
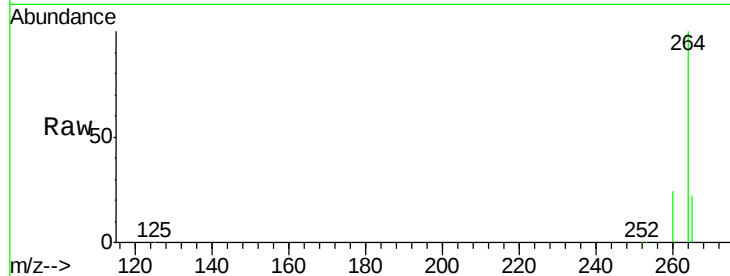




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 27.43 min Scan# 4821
 Delta R.T. 0.02 min
 Lab File: BE089837.D
 Acq: 25 Mar 2015 8:16

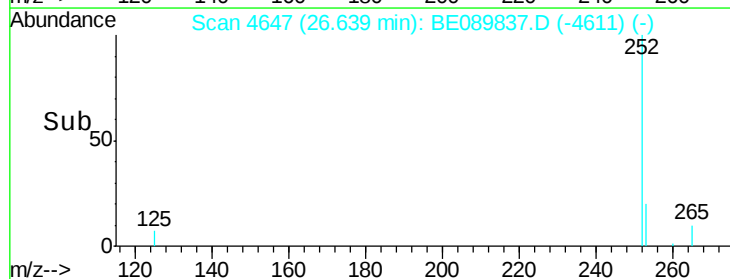
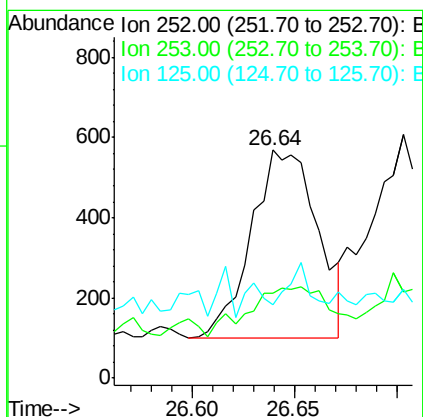
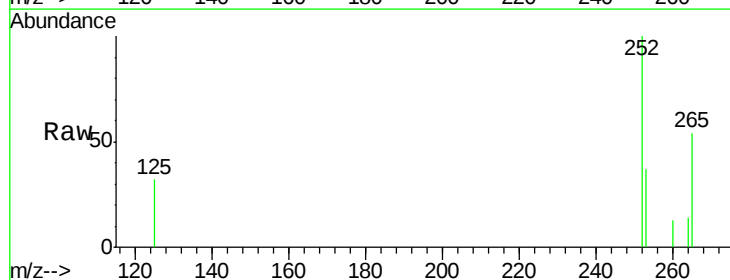
Instrument :
 BNA_E
 ClientSampleId :
 FB-031715

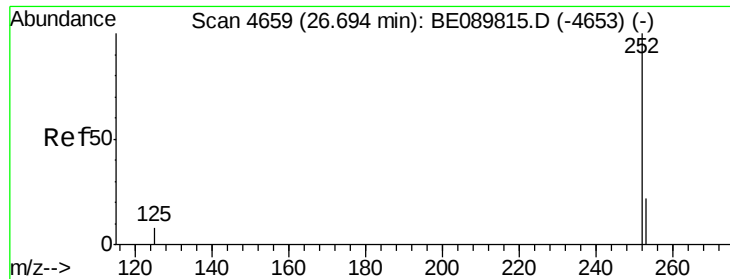
Tgt Ion: 264 Resp: 2213911
 Ion Ratio Lower Upper
 264 100
 260 24.4 18.2 27.2
 265 22.1 17.3 25.9



#26
 Benzo(b)fluoranthene
 Concen: 0.31 ng
 RT: 26.64 min Scan# 4647
 Delta R.T. 0.00 min
 Lab File: BE089837.D
 Acq: 25 Mar 2015 8:16

Tgt Ion: 252 Resp: 1059
 Ion Ratio Lower Upper
 252 100
 253 37.4 17.8 26.6#
 125 32.3 8.7 13.1#





#27

Benzo(k)fluoranthene

Concen: 0.00 ng

RT: 26.70 min Scan# 4661

Delta R.T. 0.00 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

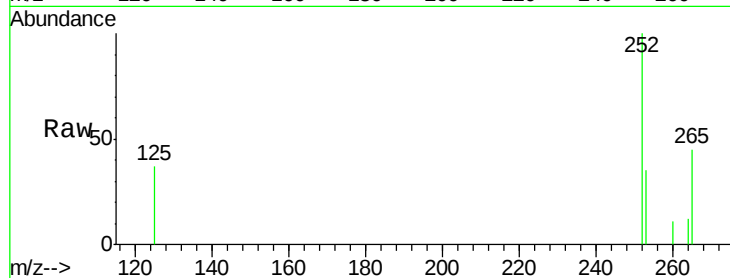
Tgt Ion:252 Resp: 1012

Ion Ratio Lower Upper

252 100

253 35.3 18.6 28.0#

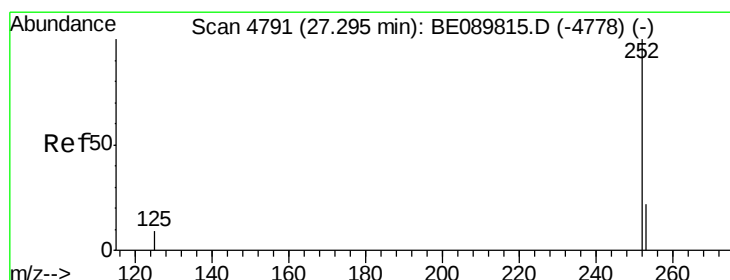
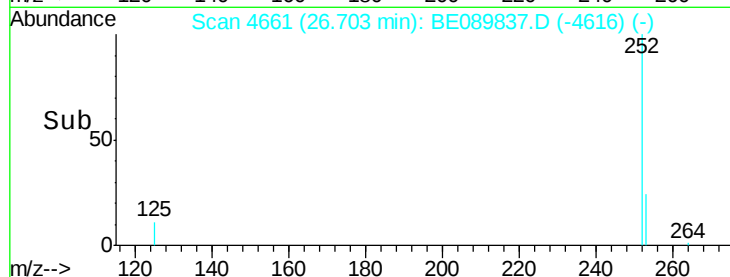
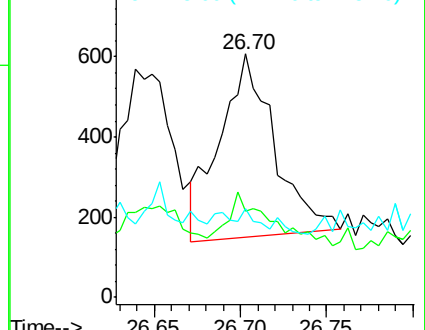
125 36.7 10.8 16.2#



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



#28

Benzo(a)pyrene

Concen: 0.30 ng

RT: 27.30 min Scan# 4792

Delta R.T. -0.00 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

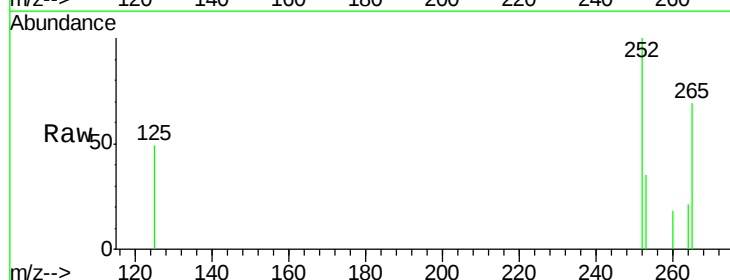
Tgt Ion:252 Resp: 797

Ion Ratio Lower Upper

252 100

253 35.1 21.0 31.4#

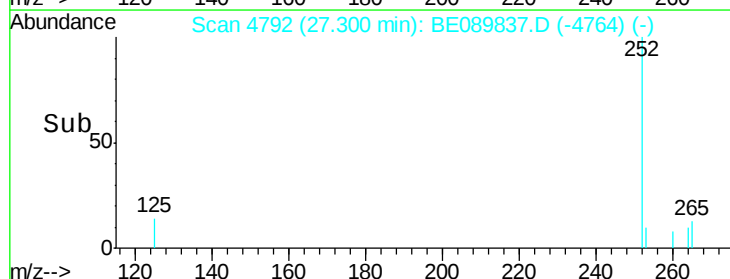
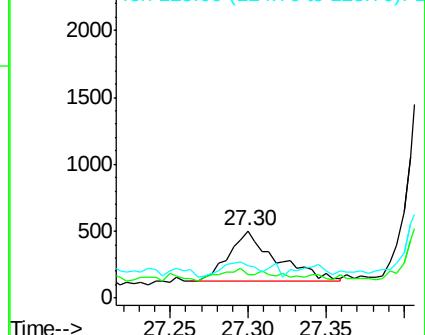
125 48.6 13.3 19.9#

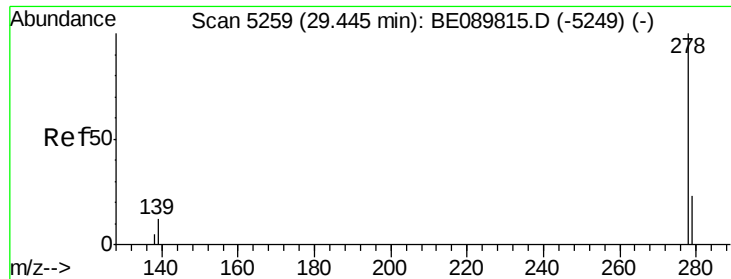


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.26 ng

RT: 29.46 min Scan# 5263

Delta R.T. 0.02 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

Instrument :

BNA_E

ClientSampleId :

FB-031715

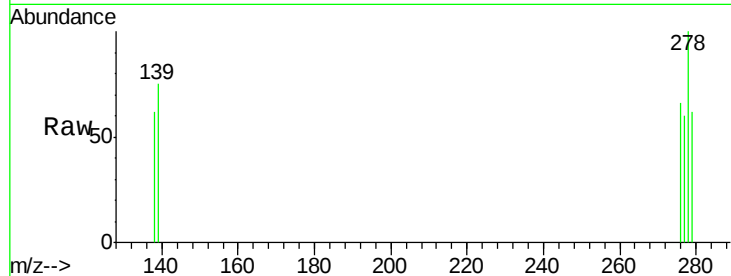
Tgt Ion: 278 Resp: 550

Ion Ratio Lower Upper

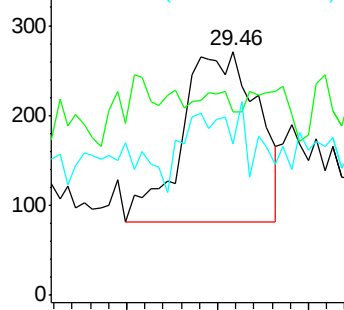
278 100

139 75.3 20.0 30.0#

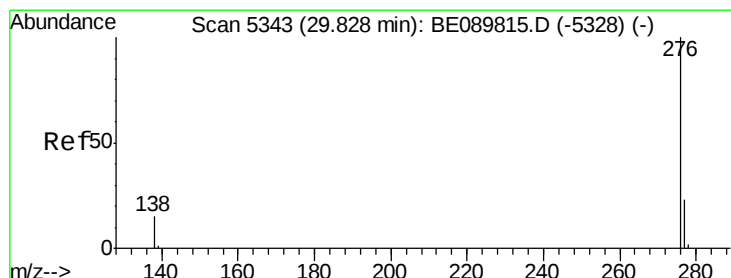
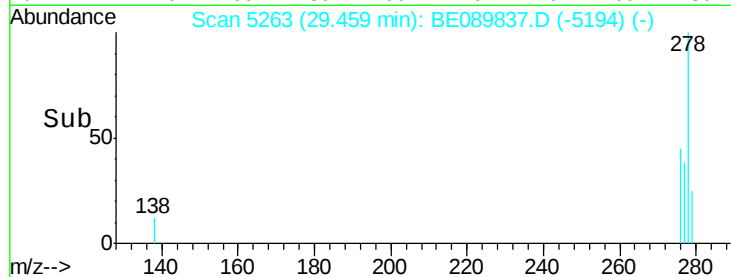
279 62.4 28.9 43.3#



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



Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.25 ng

RT: 29.83 min Scan# 5345

Delta R.T. 0.01 min

Lab File: BE089837.D

Acq: 25 Mar 2015 8:16

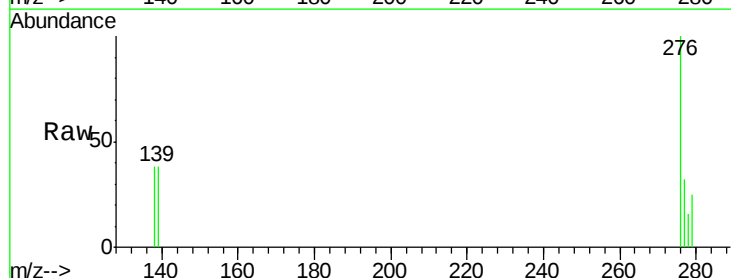
Tgt Ion: 276 Resp: 1070

Ion Ratio Lower Upper

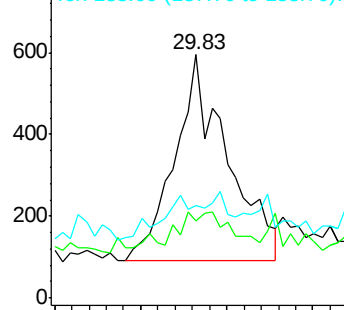
276 100

277 31.9 19.2 28.8#

138 38.0 22.9 34.3#



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



Time-->

