

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089833.D
 Acq On : 25 Mar 2015 5:35
 Operator : TP/JJ
 Sample : G1575-10
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 DUP-031715

Quant Time: Mar 25 17:06:14 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	7.50	152	208001	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	834633	5.00	ng	0.00
8) Acenaphthene-d10	14.39	164	361631	5.00	ng	0.00
13) Phenanthrene-d10	17.93	188	619446	5.00	ng	0.00
19) Chrysene-d12	24.26	240	587282	5.00	ng	0.00
25) Perylene-d12	27.42	264	553662	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	142909	2.53	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	213147	2.52	ng	0.00
21) Terphenyl-d14	21.87	244	229372	2.65	ng	0.00

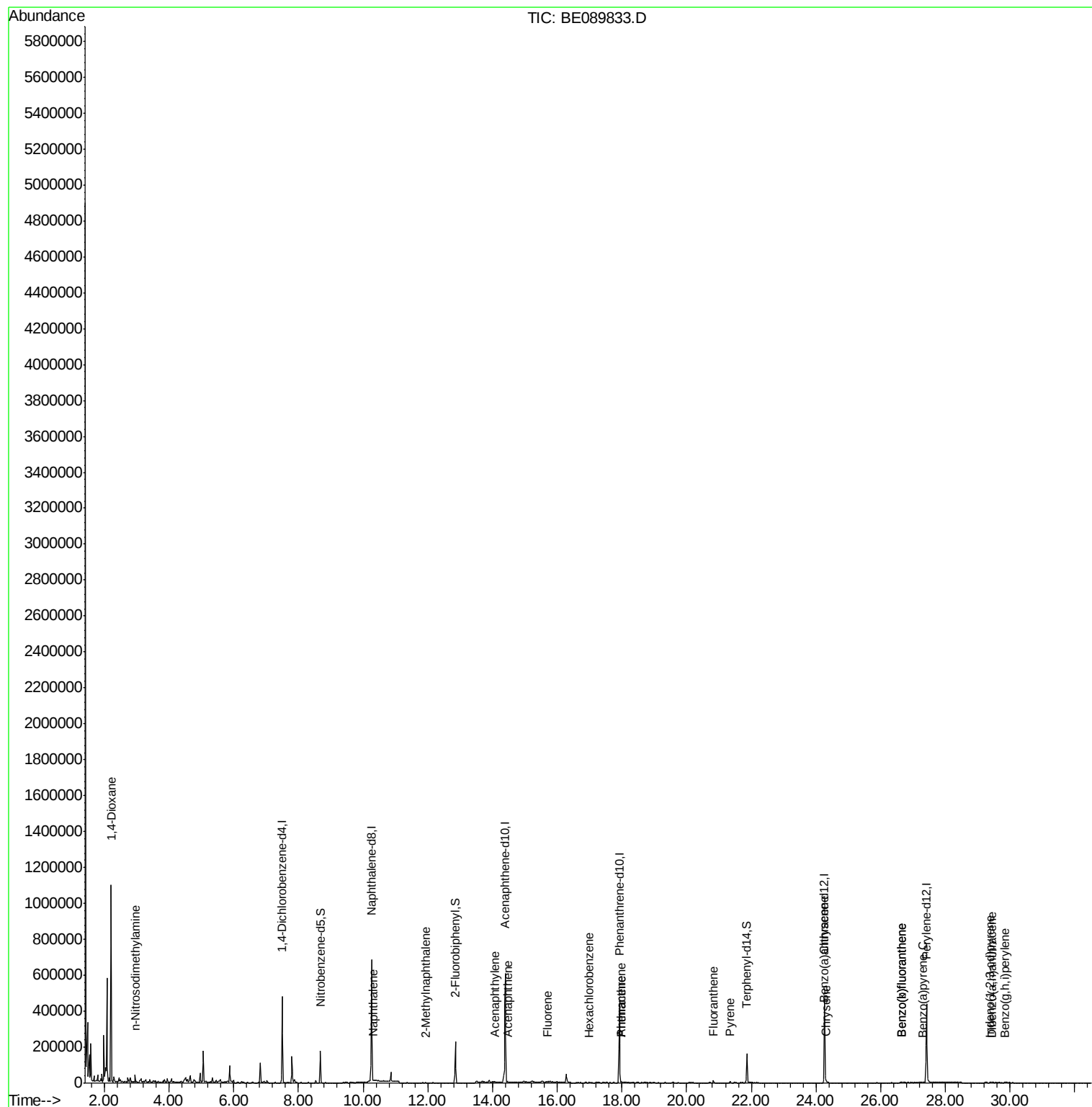
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.21	88	28630	1.07	ng	# 1
3) n-Nitrosodimethylamine	2.95	42	2717	0.07	ng	# 9
6) Naphthalene	10.31	128	2648	0.02	ng	# 1
7) 2-Methylnaphthalene	11.93	142	1631	0.02	ng	# 79
10) Acenaphthylene	14.07	152	4936	0.01	ng	# 70
11) Acenaphthene	14.47	154	318	0.00	ng	# 26
12) Fluorene	15.71	166	754	0.01	ng	# 35
14) Hexachlorobenzene	16.99	284	668	0.03	ng	# 99
15) Pentachlorophenol	17.51	266	440	Below Cal		# 90
16) Phenanthrene	17.98	178	6436	0.05	ng	# 96
17) Anthracene	17.98	178	6436	0.05	ng	# 98
18) Fluoranthene	20.83	202	13196	0.11	ng	# 96
20) Pyrene	21.35	202	10953	0.07	ng	# 91
22) Benzo(a)anthracene	24.24	228	5403	0.05	ng	# 93
23) Chrysene	24.32	228	7931	0.07	ng	# 85
24) Indeno(1,2,3-cd)pyrene	29.39	276	3884	0.45	ng	# 78
26) Benzo(b)fluoranthene	26.64	252	8281	0.38	ng	# 63
27) Benzo(k)fluoranthene	26.64	252	8281	0.07	ng	# 67
28) Benzo(a)pyrene	27.30	252	4051	0.33	ng	# 25
29) Dibenzo(a,h)anthracene	29.44	278	650	0.27	ng	# 1
30) Benzo(g,h,i)perylene	29.83	276	4910	0.29	ng	# 74

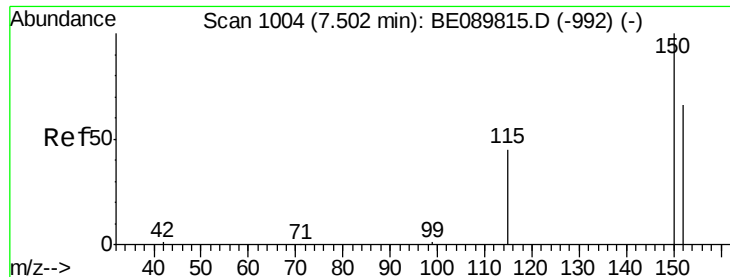
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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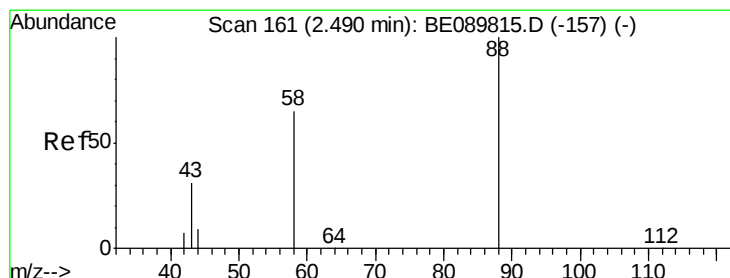
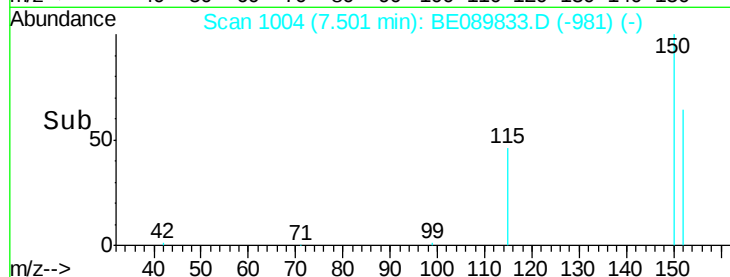
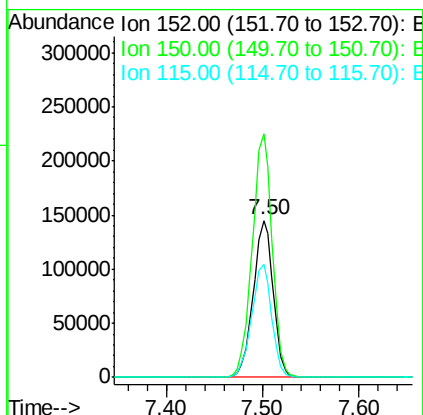
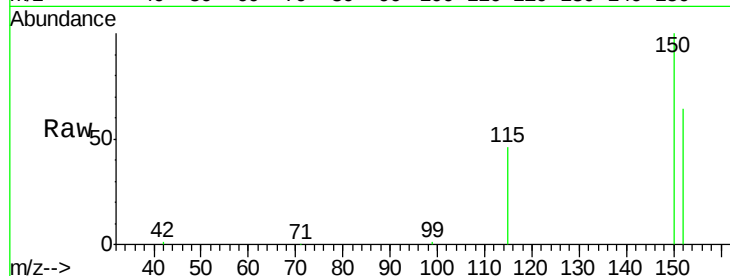




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.50 min Scan# 1004
 Delta R.T. 0.00 min
 Lab File: BE089833.D
 Acq: 25 Mar 2015 5:35

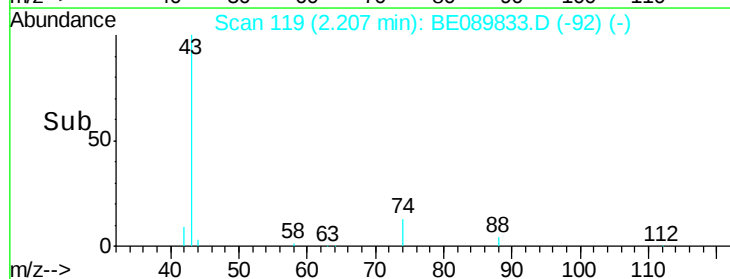
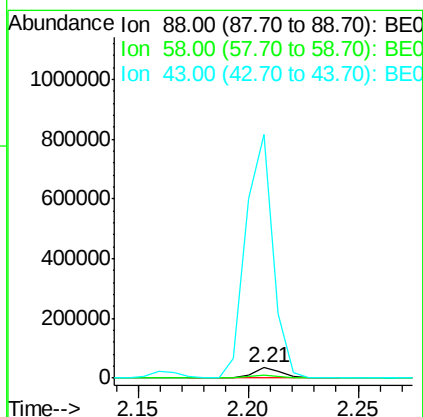
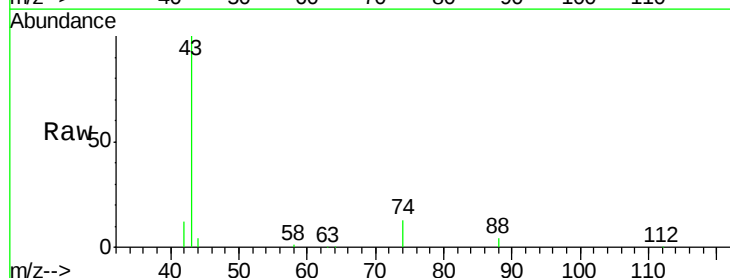
Instrument :
 BNA_E
 ClientSampleId :
 DUP-031715

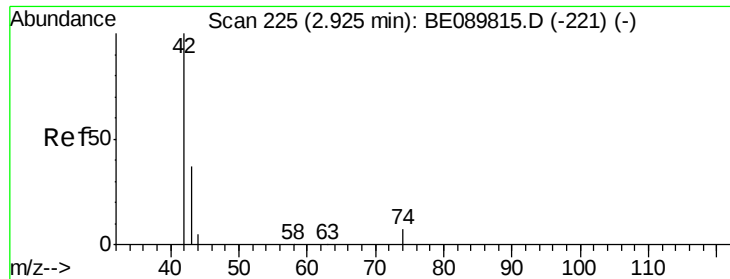
Tgt Ion:152 Resp: 208001
 Ion Ratio Lower Upper
 152 100
 150 155.3 125.5 188.3
 115 71.8 58.0 87.0



#2
 1,4-Dioxane
 Concen: 1.07 ng
 RT: 2.21 min Scan# 119
 Delta R.T. -0.32 min
 Lab File: BE089833.D
 Acq: 25 Mar 2015 5:35

Tgt Ion: 88 Resp: 28630
 Ion Ratio Lower Upper
 88 100
 58 30.3 48.6 72.8#
 43 2434.0 28.6 43.0#





#3

n-Nitrosodimethylamine

Concen: 0.07 ng

RT: 2.95 min Scan# 229

Delta R.T. -0.04 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

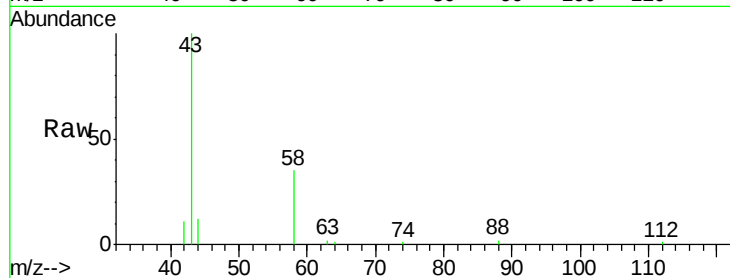
Tgt Ion: 42 Resp: 2717

Ion Ratio Lower Upper

42 100

74 0.0 68.7 103.1#

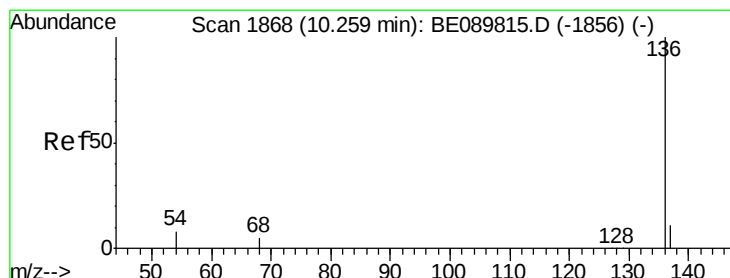
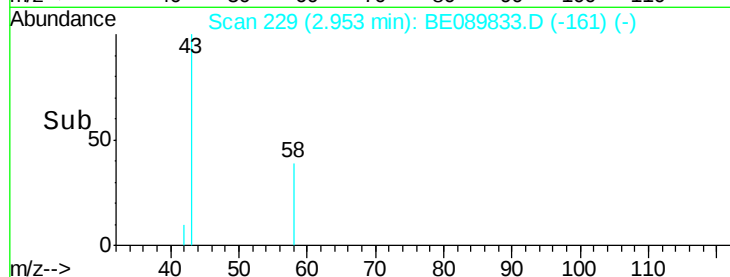
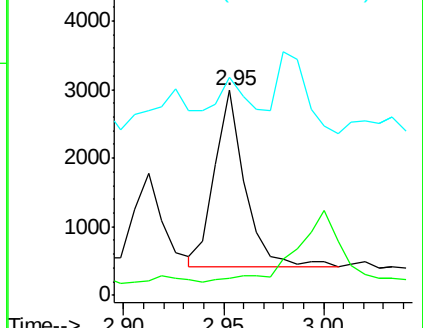
44 28.8 6.2 9.4#



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: BE089833.D

Acq: 25 Mar 2015 5:35

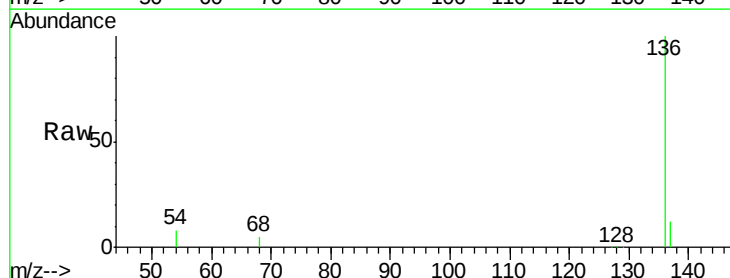
Tgt Ion: 136 Resp: 834633

Ion Ratio Lower Upper

136 100

137 12.4 8.8 13.2

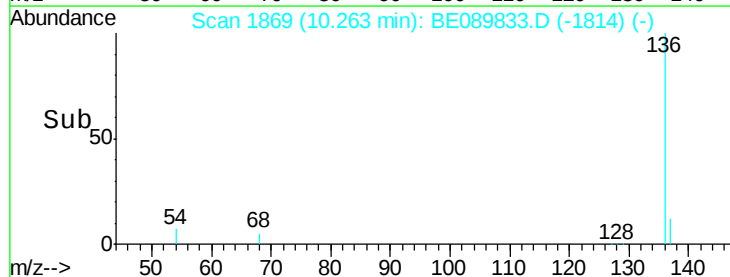
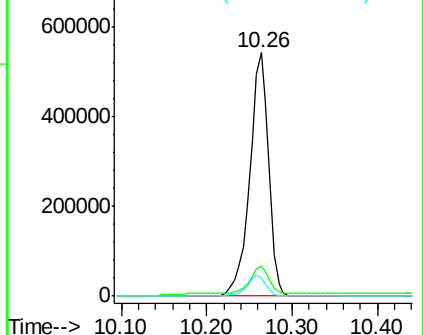
54 7.6 7.0 10.4

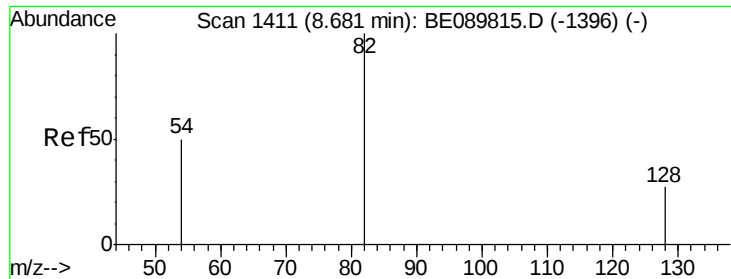


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 2.53 ng

RT: 8.68 min Scan# 1411

Delta R.T. -0.00 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

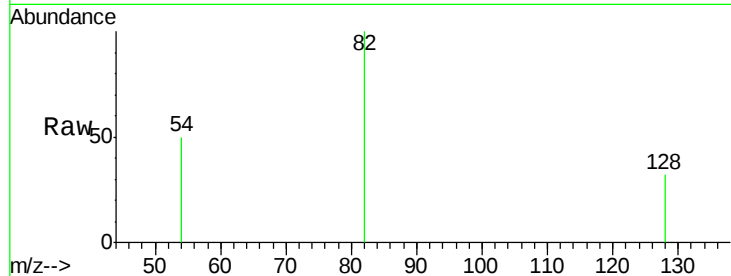
Tgt Ion: 82 Resp: 142909

Ion Ratio Lower Upper

82 100

128 31.5 24.6 37.0

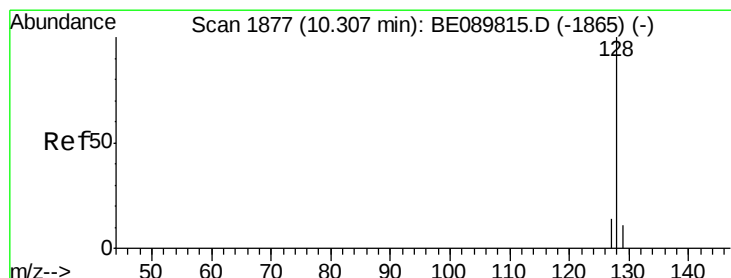
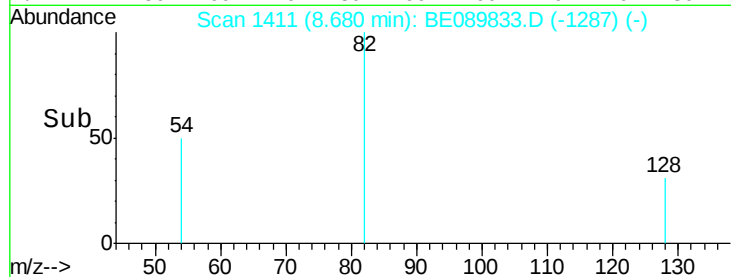
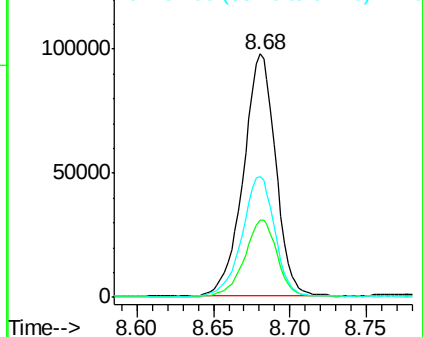
54 49.8 43.0 64.6



Abundance Ion 82.00 (81.70 to 82.70): BE089833.D (-1287) (-)

Ion 128.00 (127.70 to 128.70): BE089833.D (-1287) (-)

Ion 54.00 (53.70 to 54.70): BE089833.D (-1287) (-)



#6

Naphthalene

Concen: 0.02 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

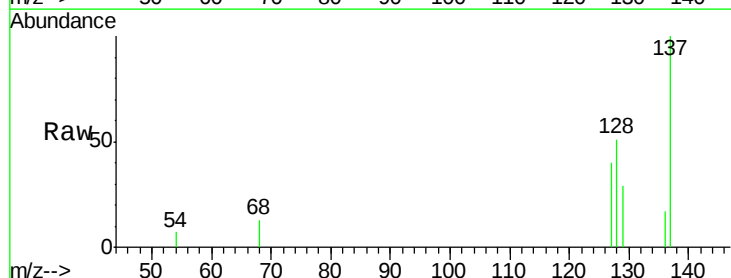
Tgt Ion: 128 Resp: 2648

Ion Ratio Lower Upper

128 100

129 56.8 10.0 15.0#

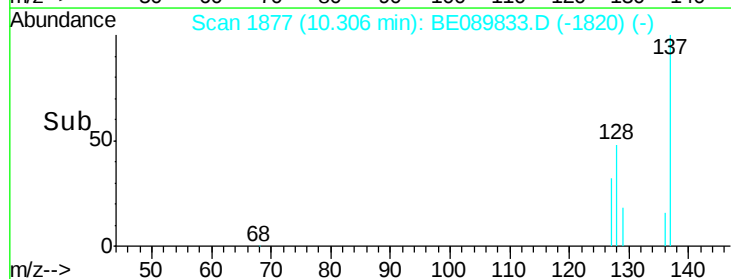
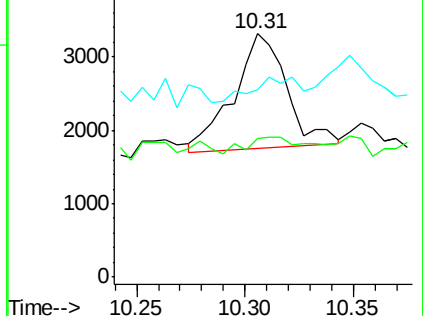
127 77.1 12.5 18.7#

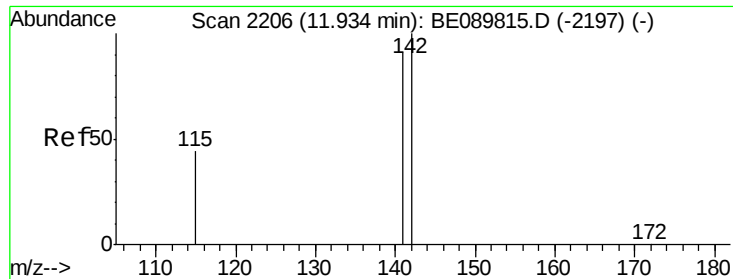


Abundance Ion 128.00 (127.70 to 128.70): BE089833.D (-1820) (-)

Ion 129.00 (128.70 to 129.70): BE089833.D (-1820) (-)

Ion 127.00 (126.70 to 127.70): BE089833.D (-1820) (-)





#7

2-Methylnaphthalene

Concen: 0.02 ng

RT: 11.93 min Scan# 2206

Delta R.T. -0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

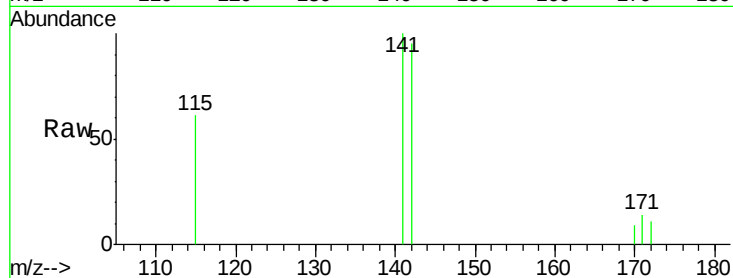
Tgt Ion:142 Resp: 1631

Ion Ratio Lower Upper

142 100

141 104.9 72.8 109.2

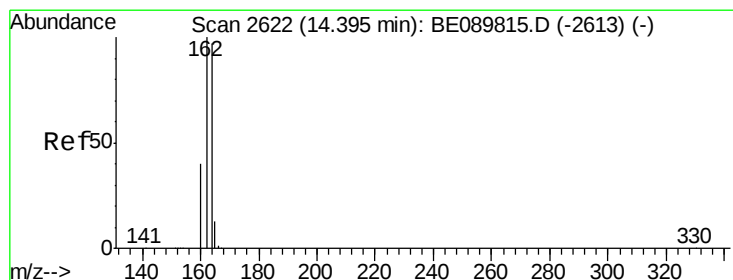
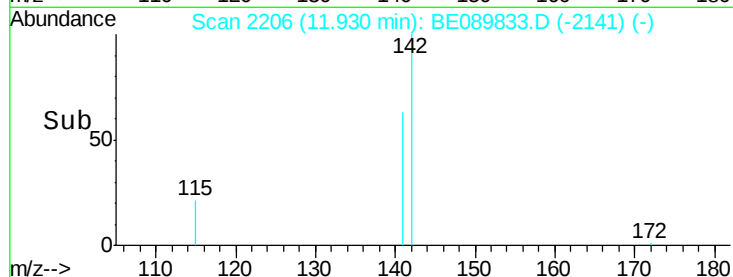
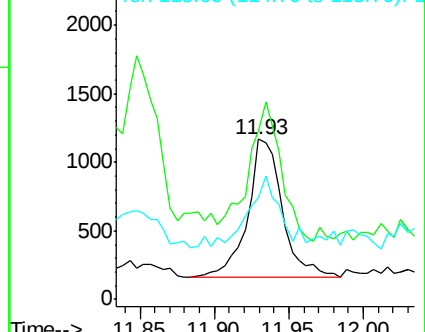
115 63.8 32.9 49.3#



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# 2623

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

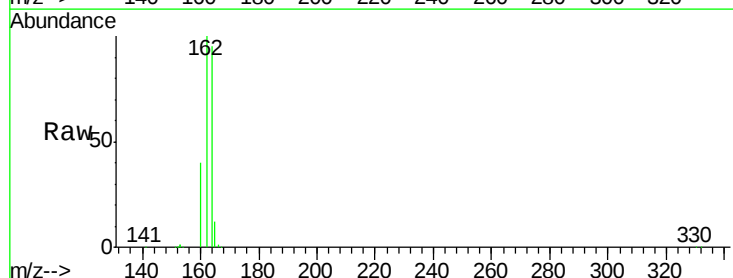
Tgt Ion:164 Resp: 361631

Ion Ratio Lower Upper

164 100

162 104.9 87.6 131.4

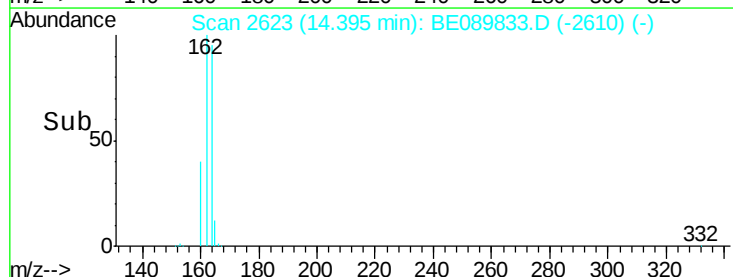
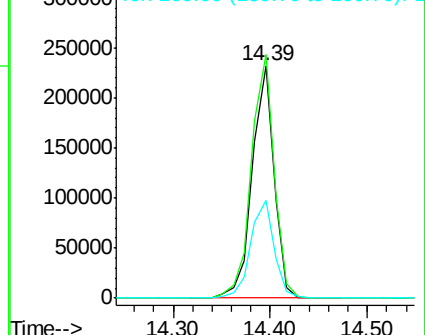
160 42.2 36.7 55.1

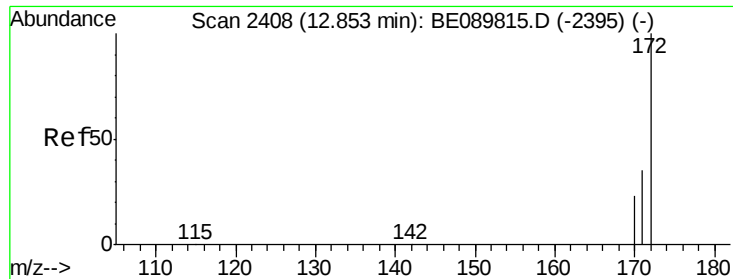


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 2.52 ng

RT: 12.85 min Scan# 2409

Delta R.T. 0.00 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

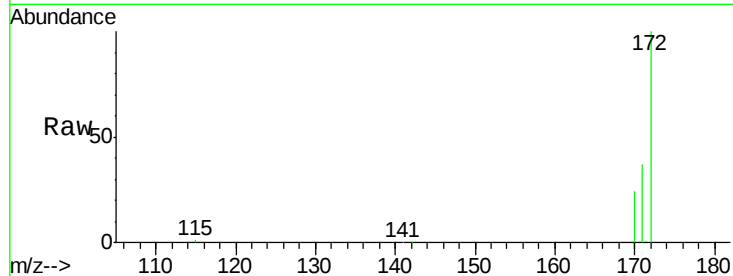
Tgt Ion:172 Resp: 213147

Ion Ratio Lower Upper

172 100

171 36.7 30.8 46.2

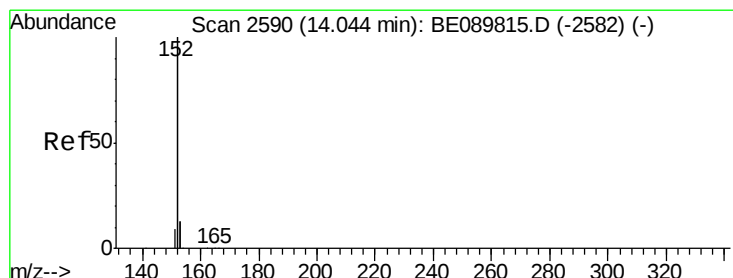
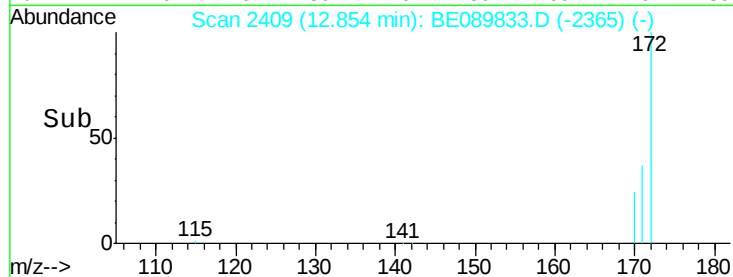
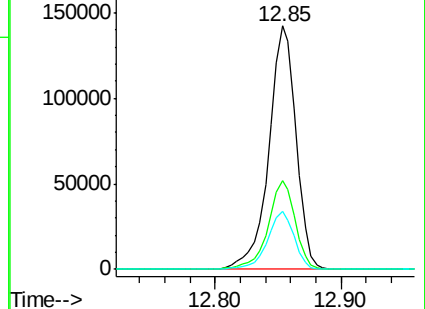
170 23.9 21.0 31.4



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: 0.01 ng

RT: 14.07 min Scan# 2593

Delta R.T. 0.02 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

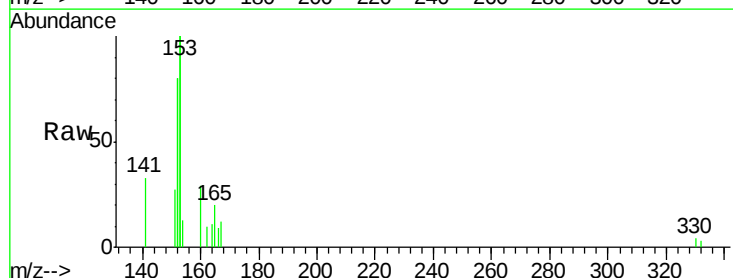
Tgt Ion:152 Resp: 4936

Ion Ratio Lower Upper

152 100

151 0.0 3.9 5.9#

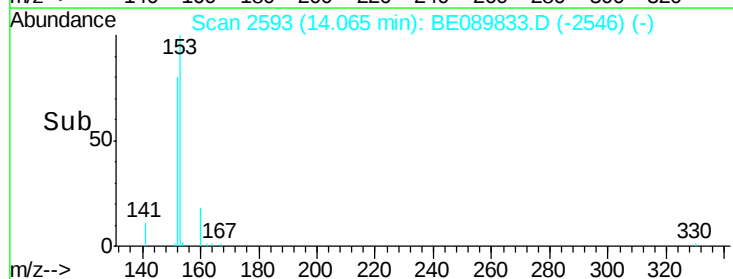
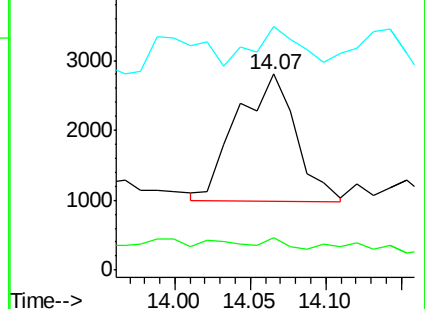
153 28.2 11.0 16.4#

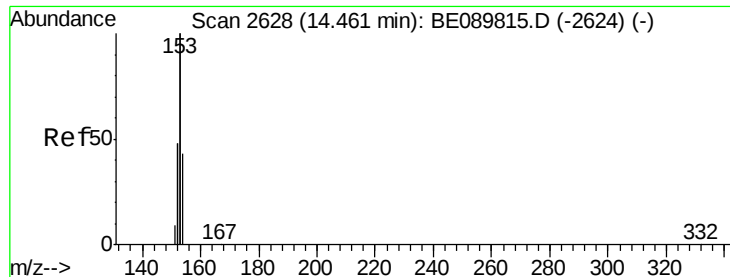


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.00 ng

RT: 14.47 min Scan# 2630

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

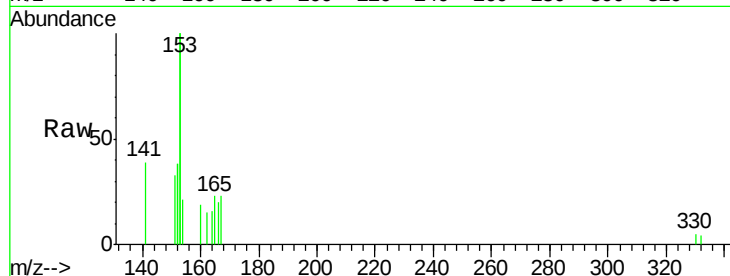
Tgt Ion:154 Resp: 318

Ion Ratio Lower Upper

154 100

153 391.8 401.5 602.3#

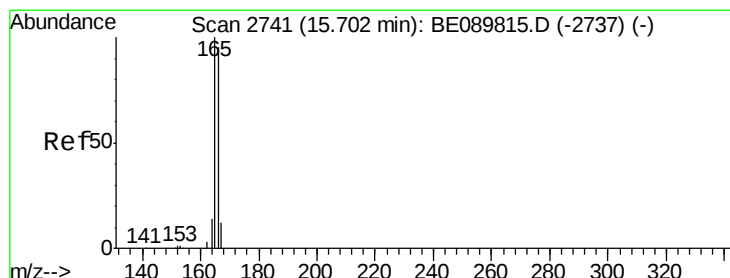
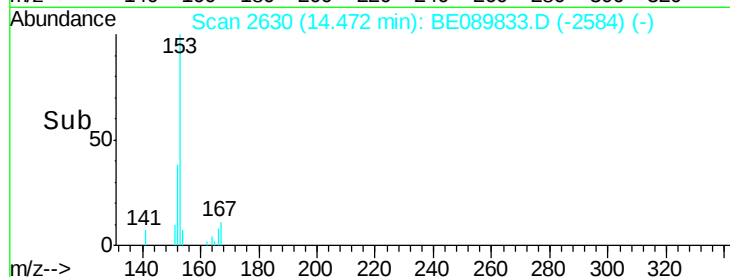
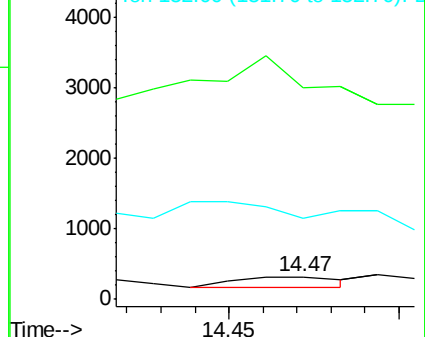
152 0.0 198.6 298.0#



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



#12

Fluorene

Concen: 0.01 ng

RT: 15.71 min Scan# 2743

Delta R.T. -0.00 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

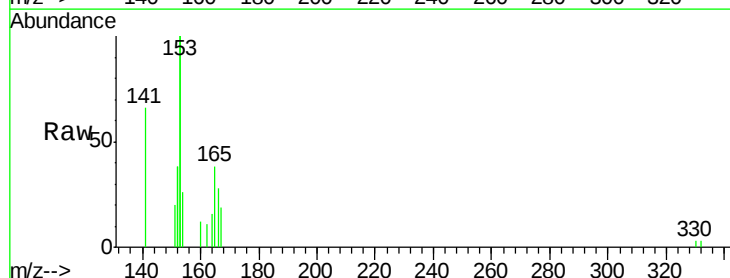
Tgt Ion:166 Resp: 754

Ion Ratio Lower Upper

166 100

165 54.9 85.1 127.7#

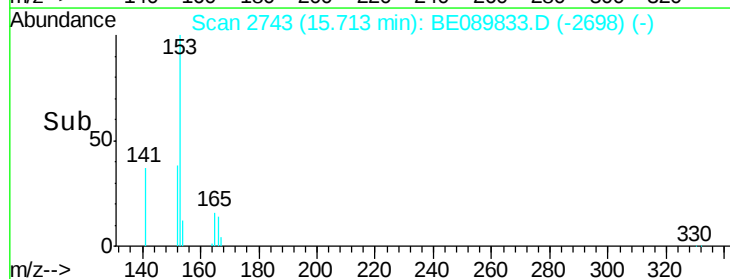
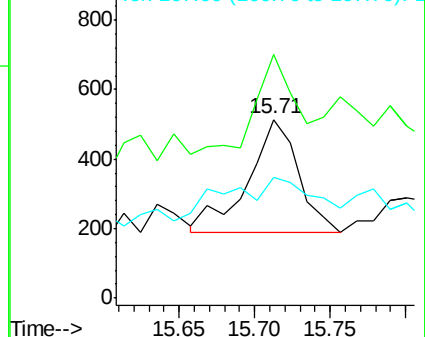
167 87.1 12.2 18.4#

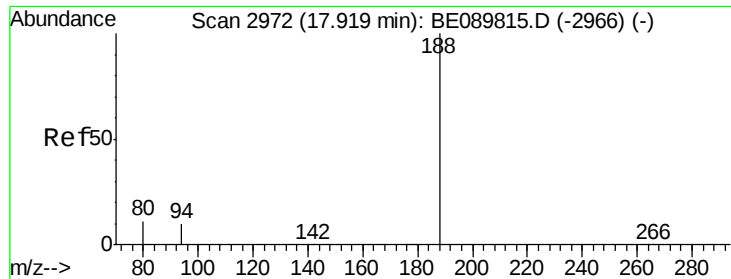


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.93 min Scan# 2974

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

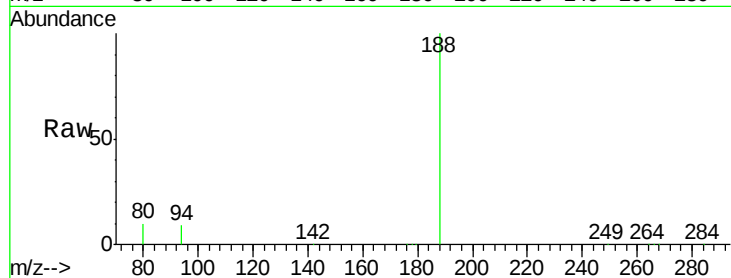
Tgt Ion:188 Resp: 619446

Ion Ratio Lower Upper

188 100

94 8.9 8.5 12.7

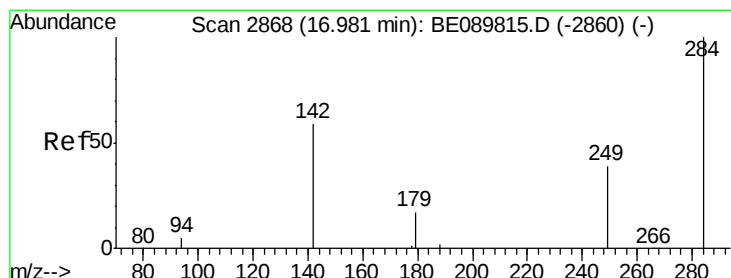
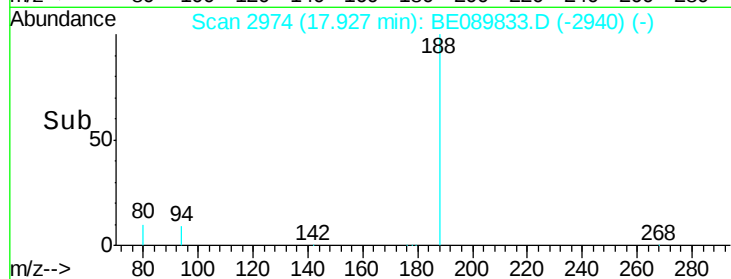
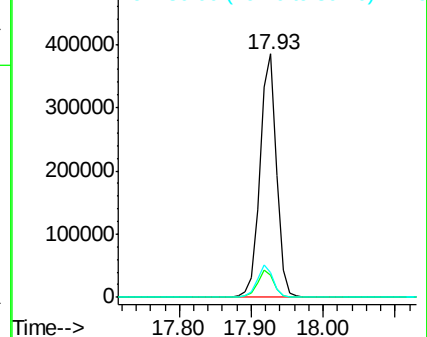
80 10.3 10.0 15.0



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: 0.03 ng

RT: 16.99 min Scan# 2870

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

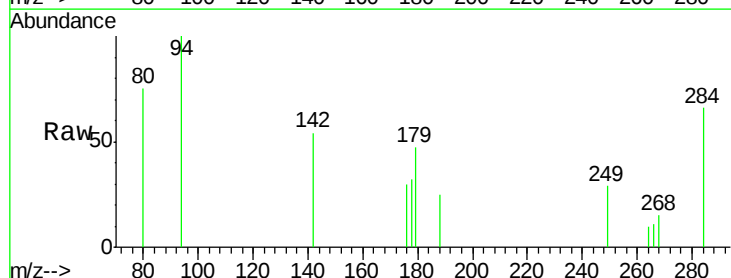
Tgt Ion:284 Resp: 668

Ion Ratio Lower Upper

284 100

142 68.0 53.3 79.9

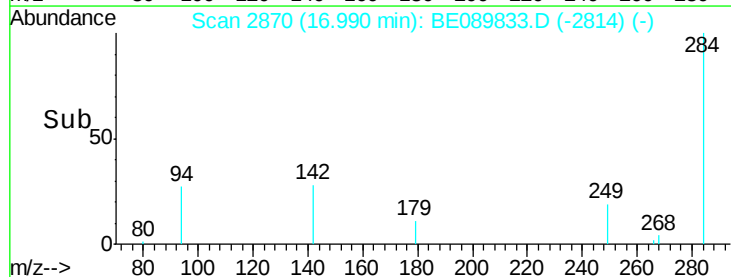
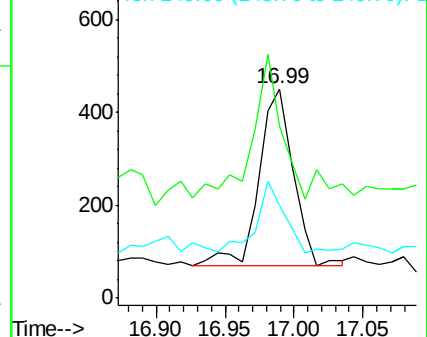
249 38.6 31.1 46.7

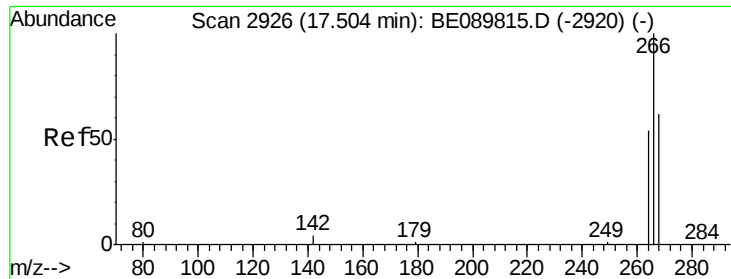


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: Below Cal

RT: 17.51 min Scan# 2928

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

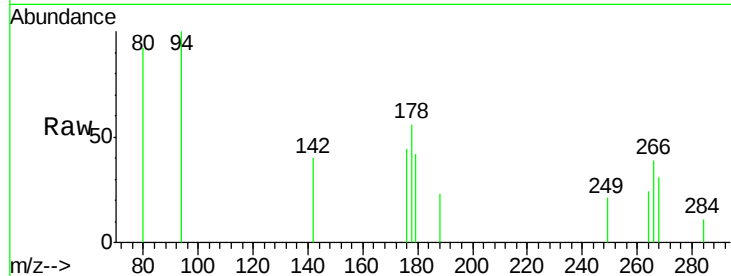
Tgt Ion: 266 Resp: 440

Ion Ratio Lower Upper

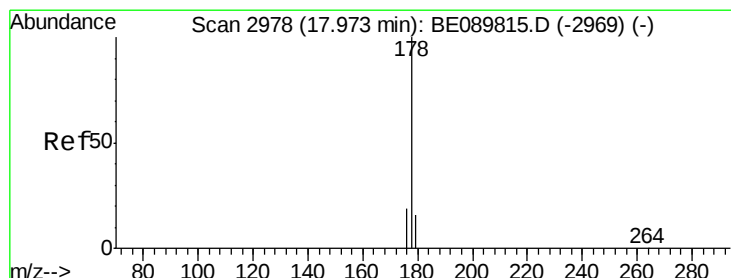
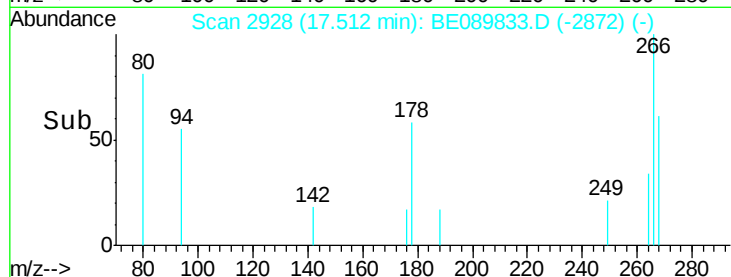
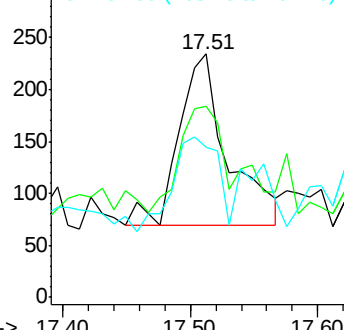
266 100

268 78.6 51.6 77.4#

264 61.5 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: 0.05 ng

RT: 17.98 min Scan# 2980

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

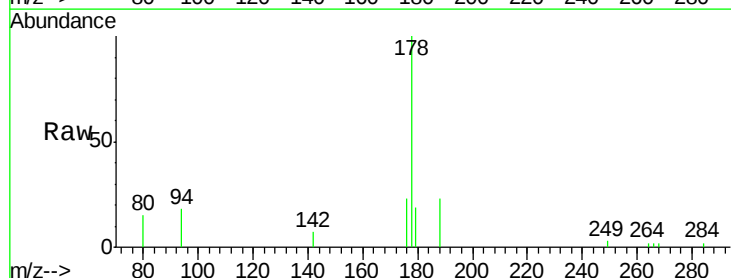
Tgt Ion: 178 Resp: 6436

Ion Ratio Lower Upper

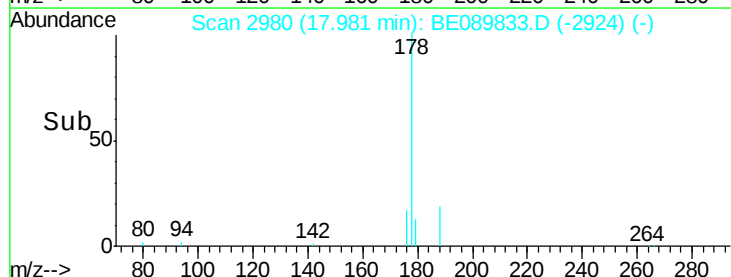
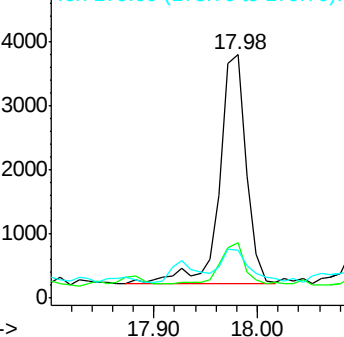
178 100

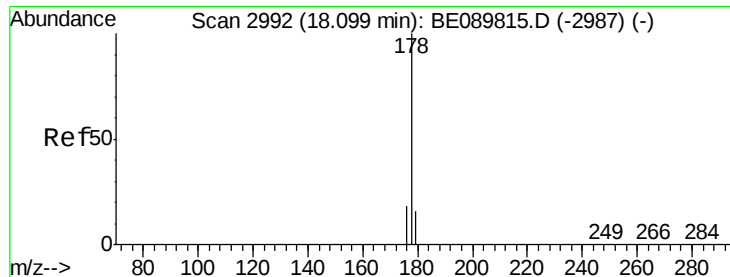
176 17.1 15.4 23.0

179 13.8 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: 0.05 ng

RT: 17.98 min Scan# 2980

Delta R.T. -0.12 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

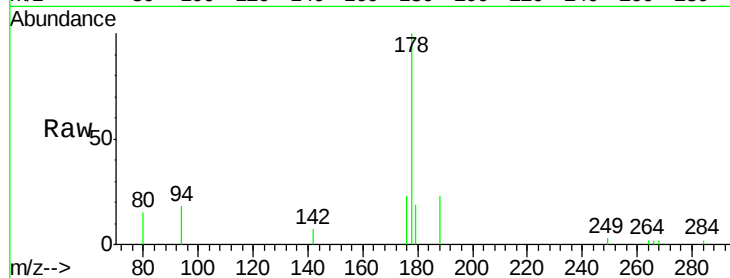
Tgt Ion:178 Resp: 6436

Ion Ratio Lower Upper

178 100

176 17.5 14.6 21.8

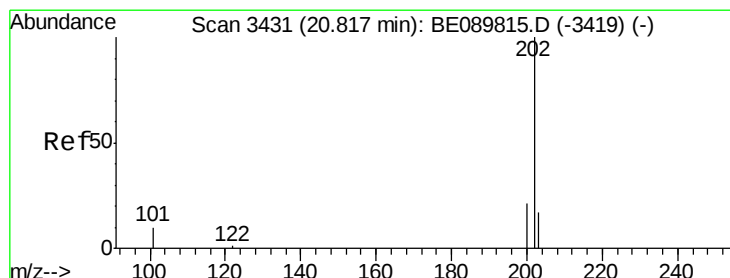
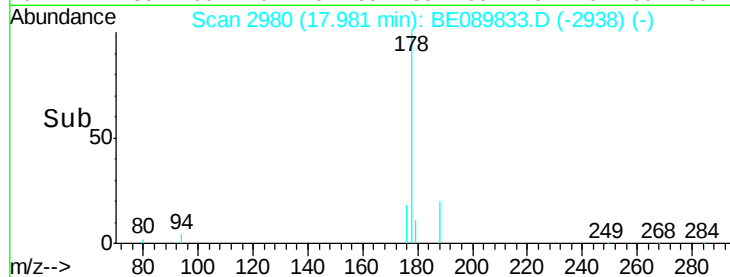
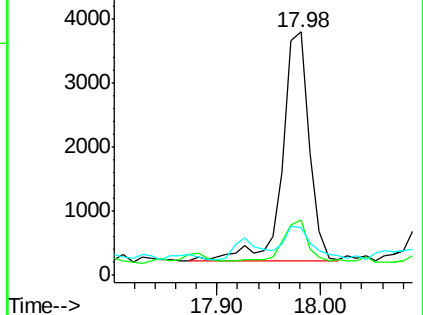
179 14.3 12.1 18.1



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: 0.11 ng

RT: 20.83 min Scan# 3434

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

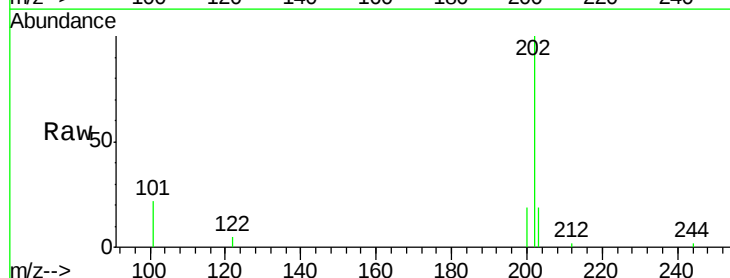
Tgt Ion:202 Resp: 13196

Ion Ratio Lower Upper

202 100

101 12.2 8.2 12.2

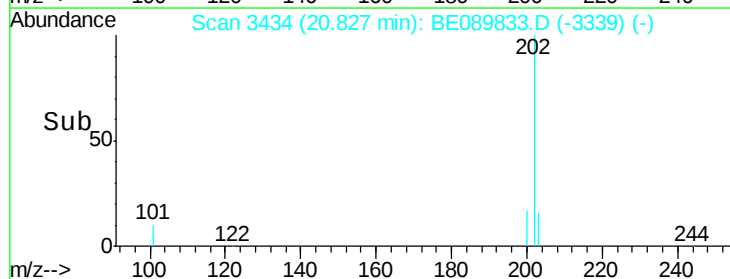
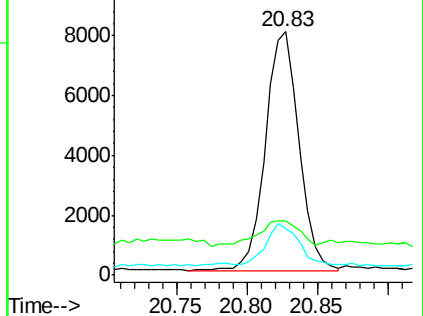
203 16.7 14.2 21.4

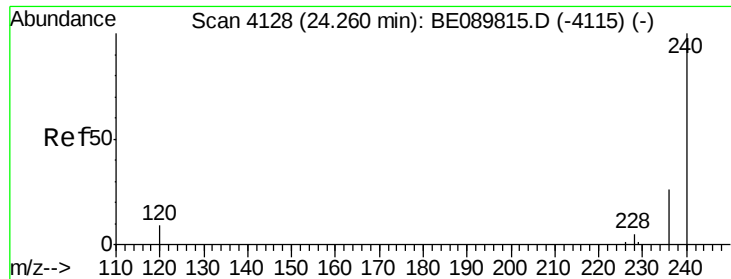


Abundance Ion 202.00 (201.70 to 202.70): E

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: 24.26 min Scan# 4130

Delta R.T. 0.00 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

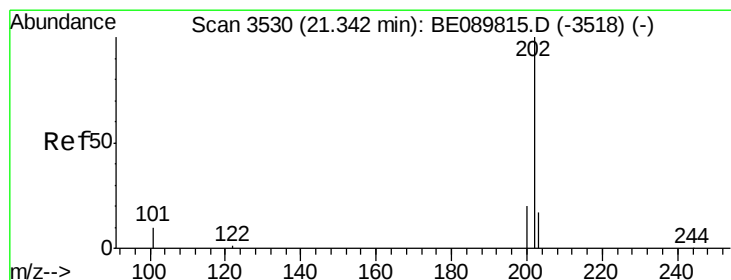
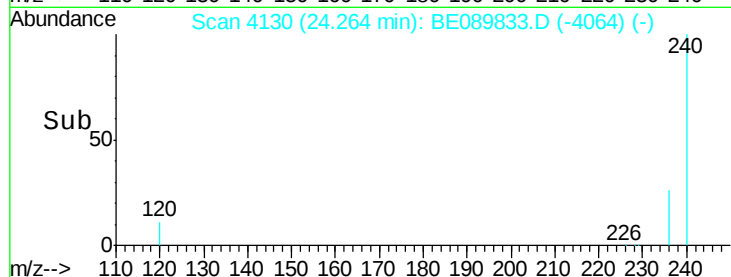
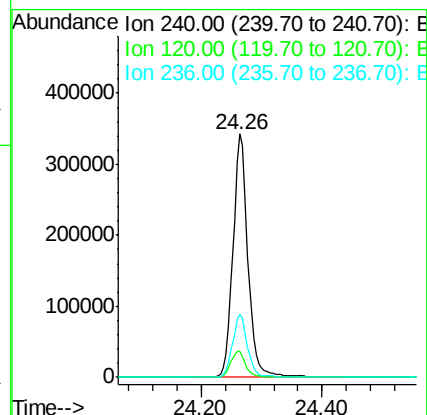
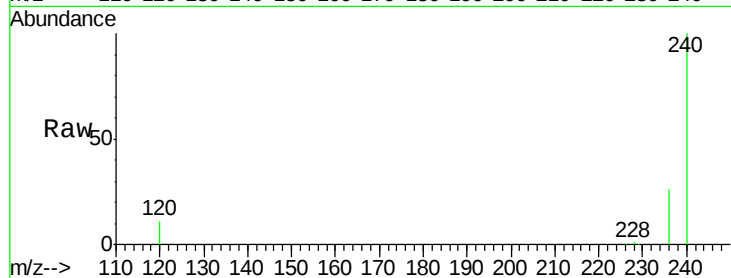
Tgt Ion:240 Resp: 587282

Ion Ratio Lower Upper

240 100

120 10.6 7.5 11.3

236 26.2 20.5 30.7



#20

Pyrene

Concen: 0.07 ng

RT: 21.35 min Scan# 3532

Delta R.T. -0.00 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

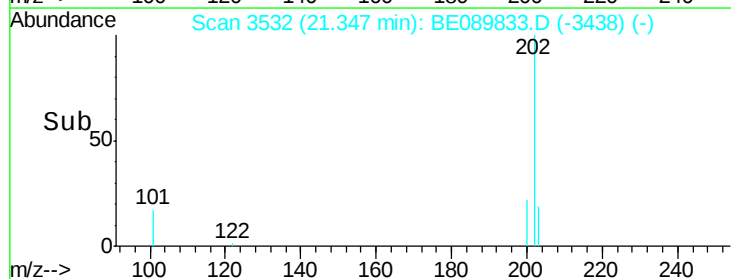
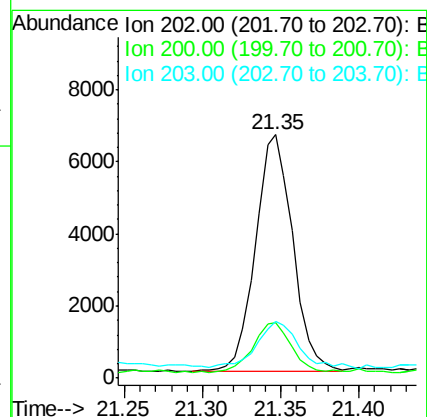
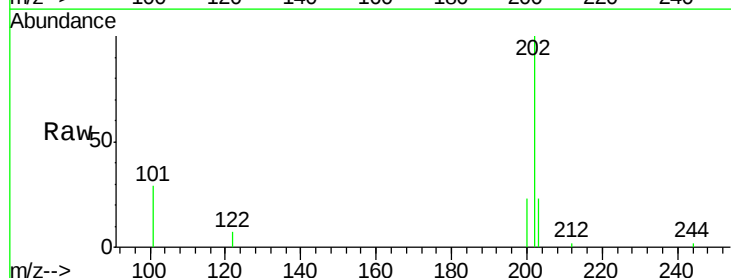
Tgt Ion:202 Resp: 10953

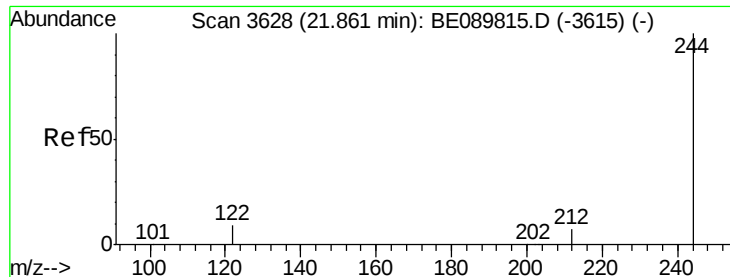
Ion Ratio Lower Upper

202 100

200 21.8 15.9 23.9

203 23.3 13.6 20.4#





#21

Terphenyl-d14

Concen: 2.65 ng

RT: 21.87 min Scan# 3630

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

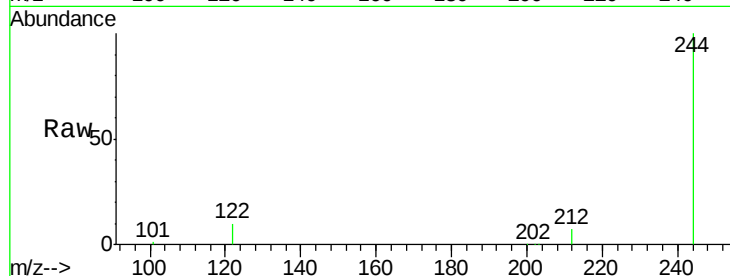
Tgt Ion:244 Resp: 229372

Ion Ratio Lower Upper

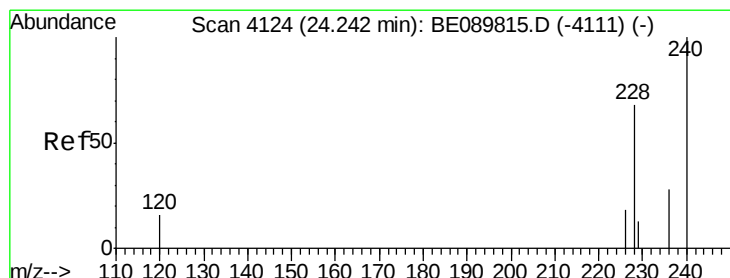
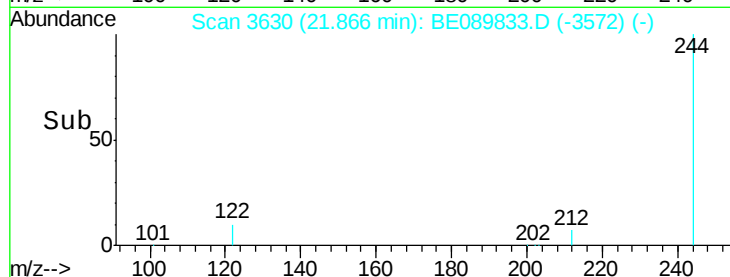
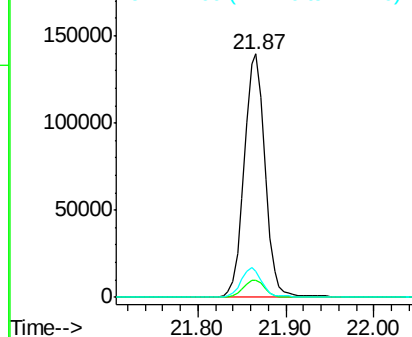
244 100

212 7.0 7.3 10.9#

122 10.4 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: 0.05 ng

RT: 24.24 min Scan# 4125

Delta R.T. -0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

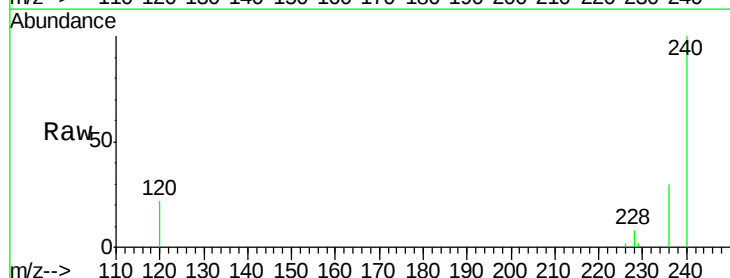
Tgt Ion:228 Resp: 5403

Ion Ratio Lower Upper

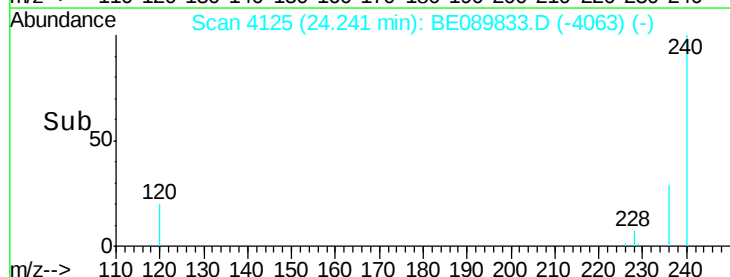
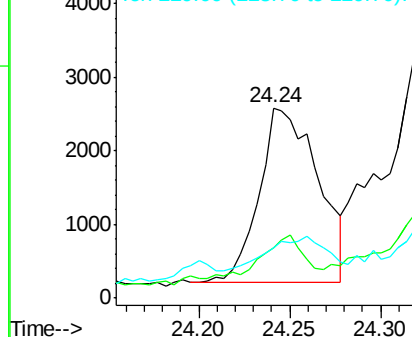
228 100

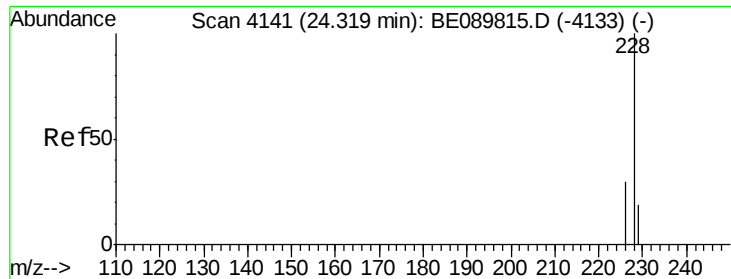
226 26.2 19.8 29.8

229 26.1 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: 0.07 ng

RT: 24.32 min Scan# 4143

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

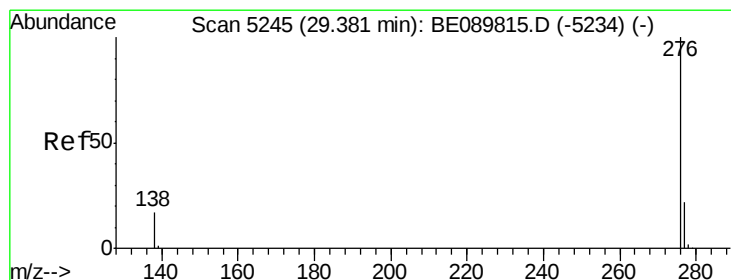
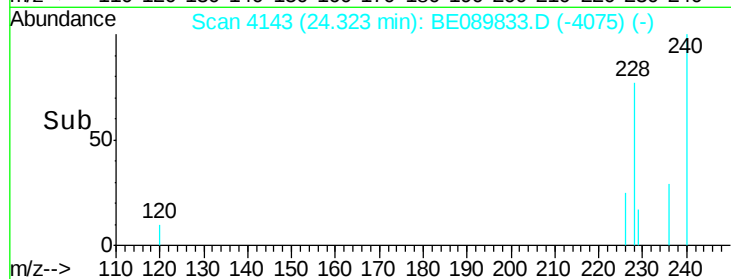
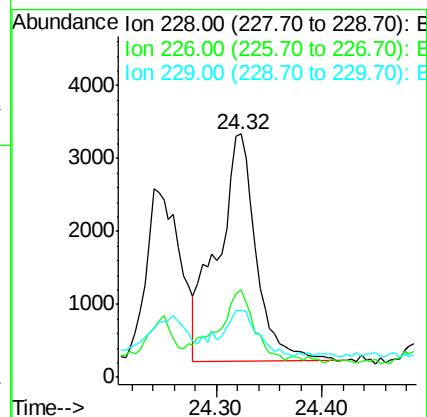
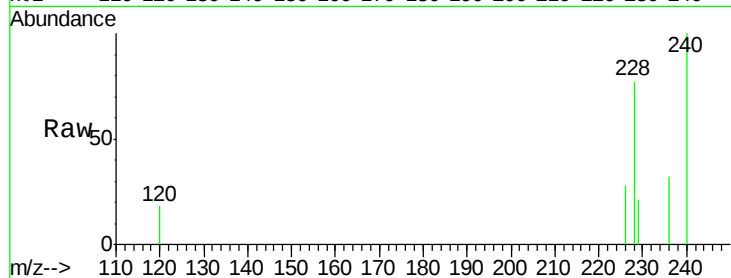
Tgt Ion:228 Resp: 7931

Ion Ratio Lower Upper

228 100

226 36.0 23.0 34.4#

229 27.7 15.8 23.6#



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.45 ng

RT: 29.39 min Scan# 5248

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

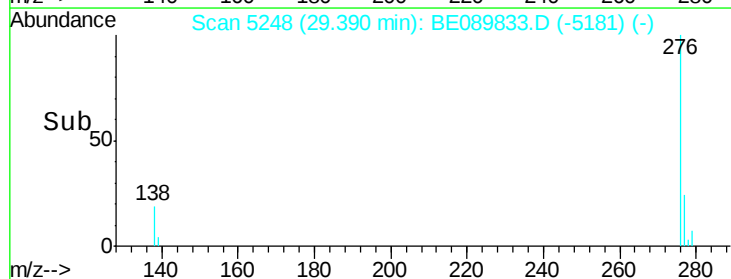
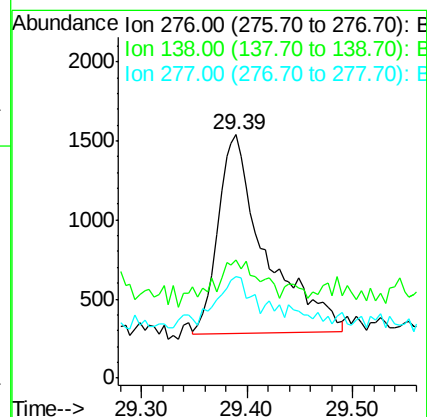
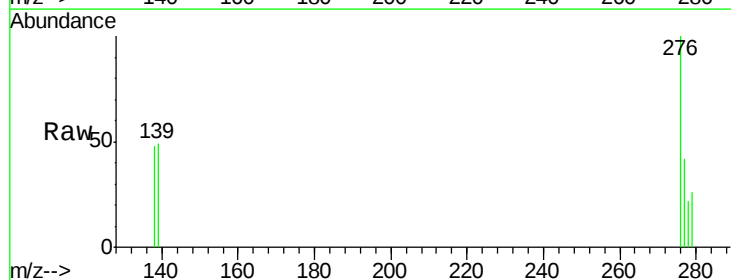
Tgt Ion:276 Resp: 3884

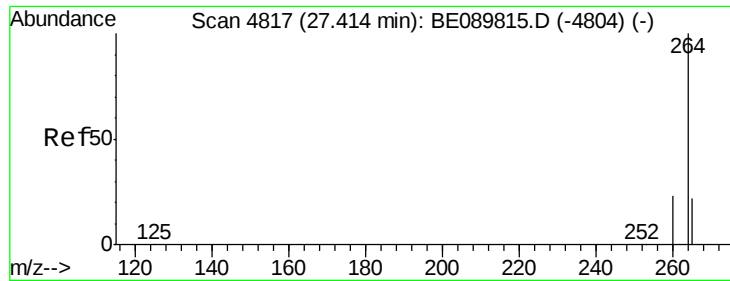
Ion Ratio Lower Upper

276 100

138 17.1 4.3 6.5#

277 17.1 9.0 13.4#

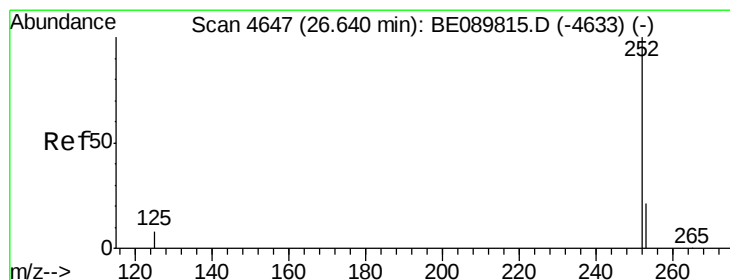
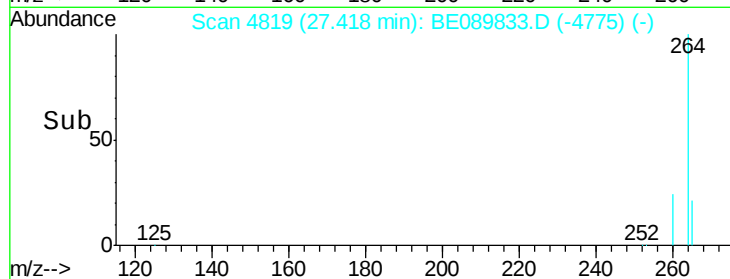
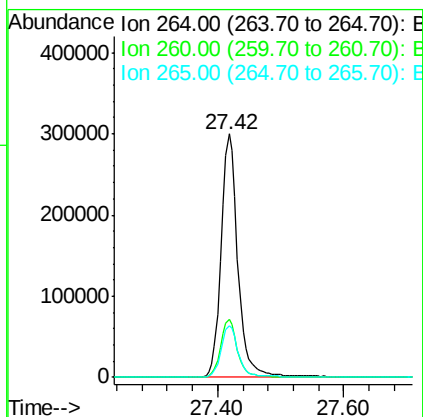
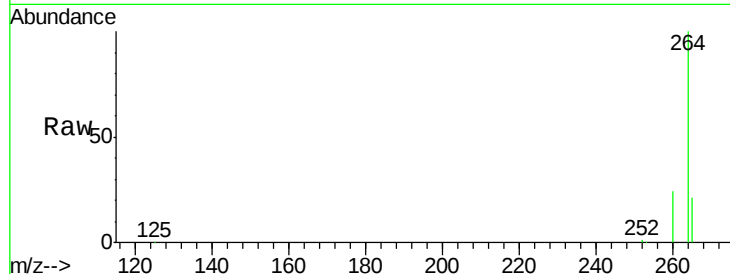




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 27.42 min Scan# 4819
 Delta R.T. 0.00 min
 Lab File: BE089833.D
 Acq: 25 Mar 2015 5:35

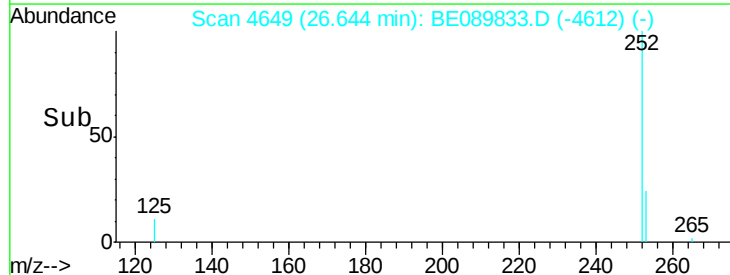
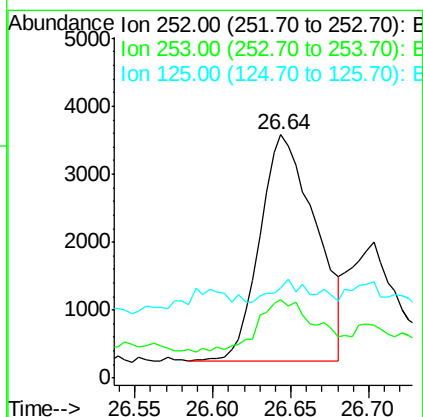
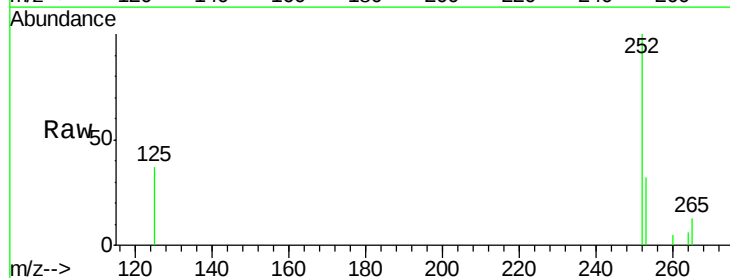
Instrument :
 BNA_E
 ClientSampleId :
 DUP-031715

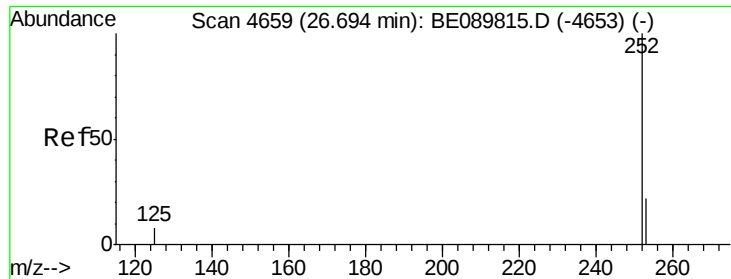
Tgt Ion: 264 Resp: 553662
 Ion Ratio Lower Upper
 264 100
 260 24.0 18.2 27.2
 265 21.5 17.3 25.9



#26
 Benzo(b)fluoranthene
 Concen: 0.38 ng
 RT: 26.64 min Scan# 4649
 Delta R.T. 0.01 min
 Lab File: BE089833.D
 Acq: 25 Mar 2015 5:35

Tgt Ion: 252 Resp: 8281
 Ion Ratio Lower Upper
 252 100
 253 32.3 17.8 26.6#
 125 36.8 8.7 13.1#

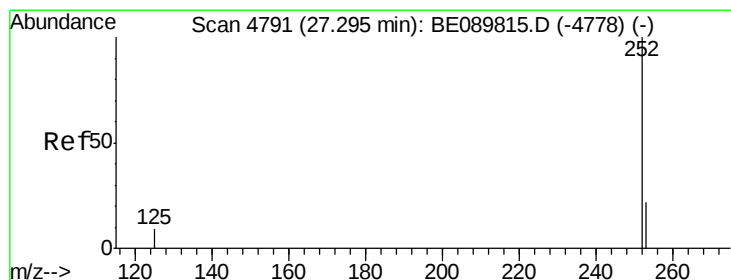
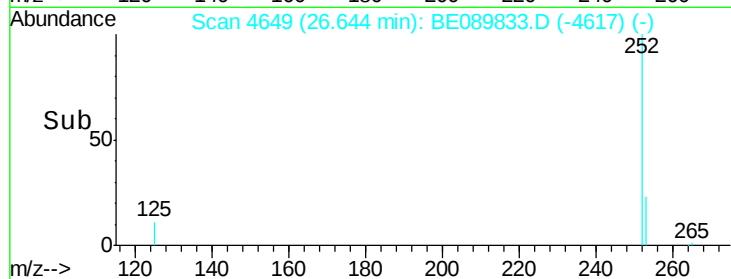
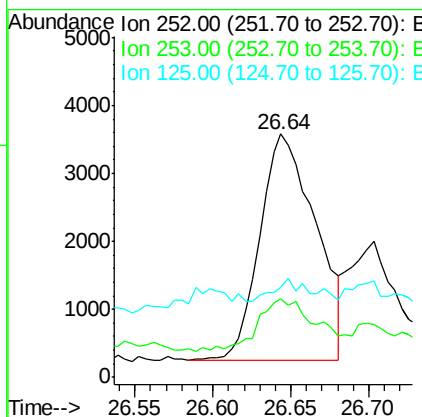
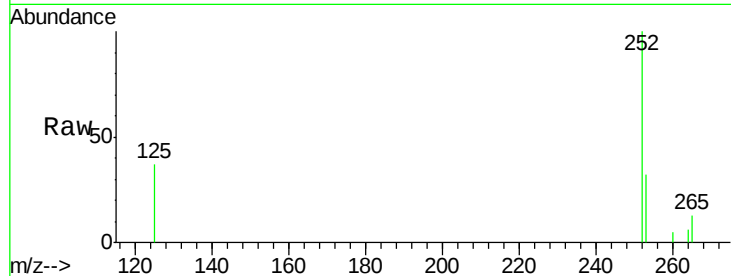




#27
Benzo(k)fluoranthene
Concen: 0.07 ng
RT: 26.64 min Scan# 4649
Delta R.T. -0.06 min
Lab File: BE089833.D
Acq: 25 Mar 2015 5:35

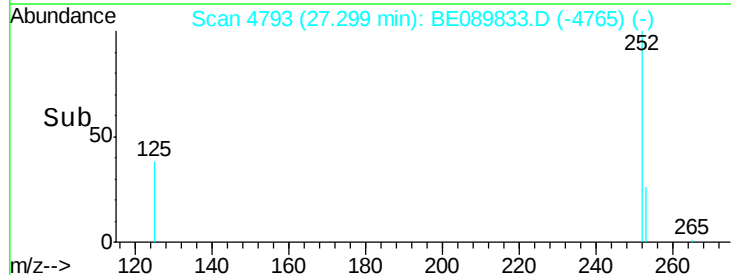
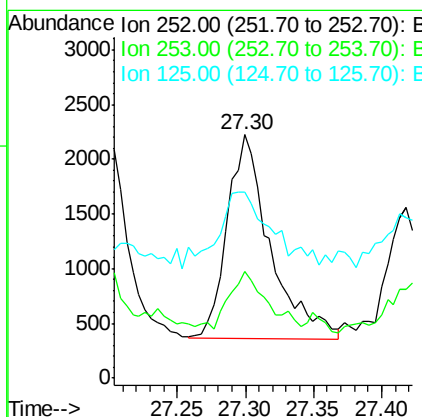
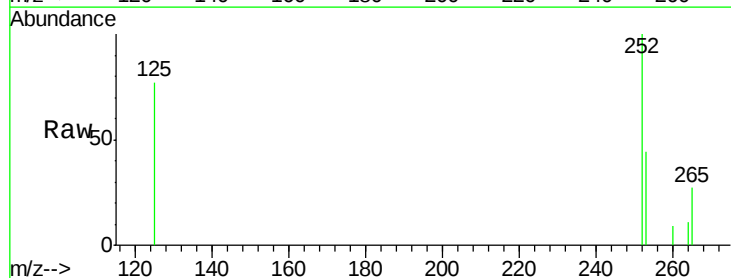
Instrument :
BNA_E
ClientSampleId :
DUP-031715

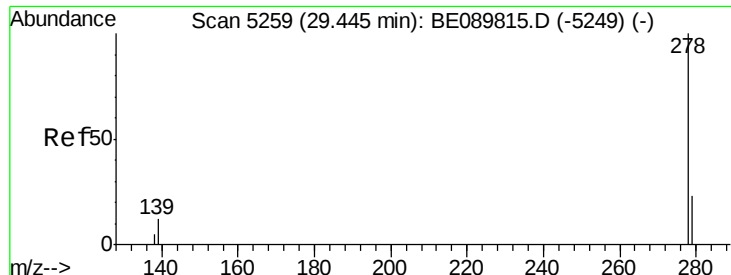
Tgt Ion: 252 Resp: 8281
Ion Ratio Lower Upper
252 100
253 32.3 18.6 28.0#
125 36.8 10.8 16.2#



#28
Benzo(a)pyrene
Concen: 0.33 ng
RT: 27.30 min Scan# 4793
Delta R.T. -0.00 min
Lab File: BE089833.D
Acq: 25 Mar 2015 5:35

Tgt Ion: 252 Resp: 4051
Ion Ratio Lower Upper
252 100
253 43.6 21.0 31.4#
125 76.6 13.3 19.9#





#29

Dibenzo(a,h)anthracene

Concen: 0.27 ng

RT: 29.44 min Scan# 5258

Delta R.T. -0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Instrument :

BNA_E

ClientSampleId :

DUP-031715

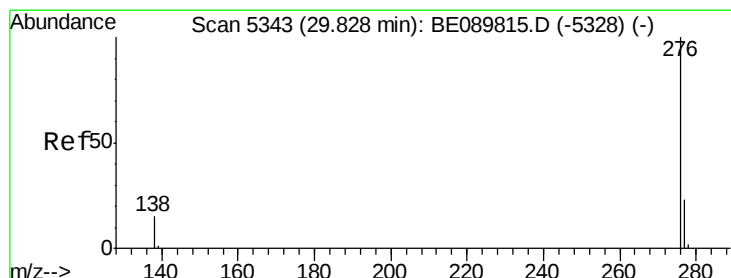
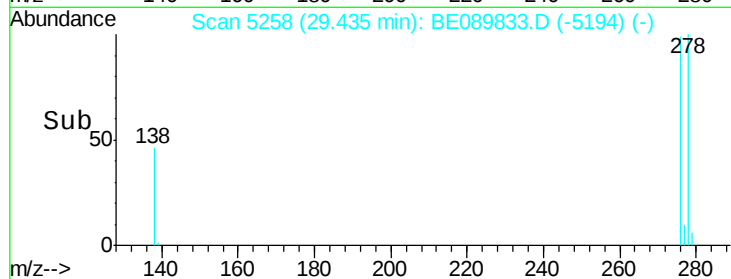
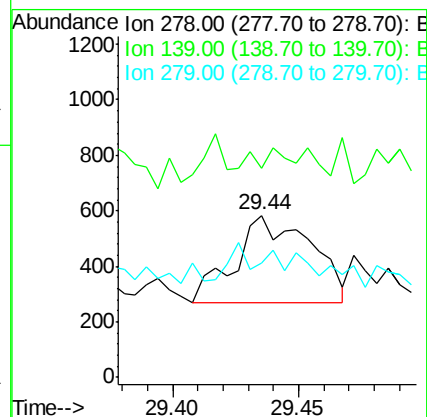
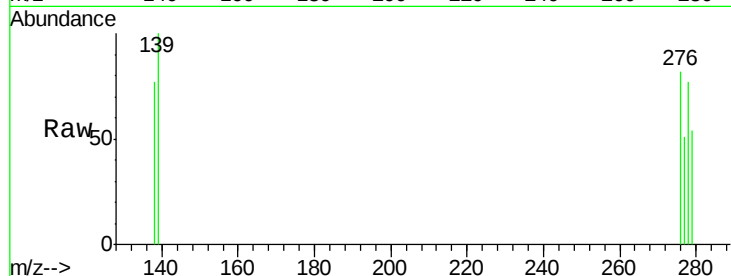
Tgt Ion: 278 Resp: 650

Ion Ratio Lower Upper

278 100

139 129.3 20.0 30.0#

279 70.3 28.9 43.3#



#30

Benzo(g,h,i)perylene

Concen: 0.29 ng

RT: 29.83 min Scan# 5344

Delta R.T. 0.01 min

Lab File: BE089833.D

Acq: 25 Mar 2015 5:35

Tgt Ion: 276 Resp: 4910

Ion Ratio Lower Upper

276 100

277 34.5 19.2 28.8#

138 44.1 22.9 34.3#

