

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089829.D
 Acq On : 25 Mar 2015 2:54
 Operator : TP/JJ
 Sample : G1575-06
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RW-11V

Quant Time: Mar 25 03:22:09 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 24 18:03:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	254724	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	1035037	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	451495	5.00	ng	0.01
13) Phenanthrene-d10	17.92	188	759636	5.00	ng	0.00
19) Chrysene-d12	24.26	240	700193	5.00	ng	0.00
25) Perylene-d12	27.42	264	654485	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	280256	3.86	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	404445	3.83	ng	0.00
21) Terphenyl-d14	21.86	244	390844	3.78	ng	0.00

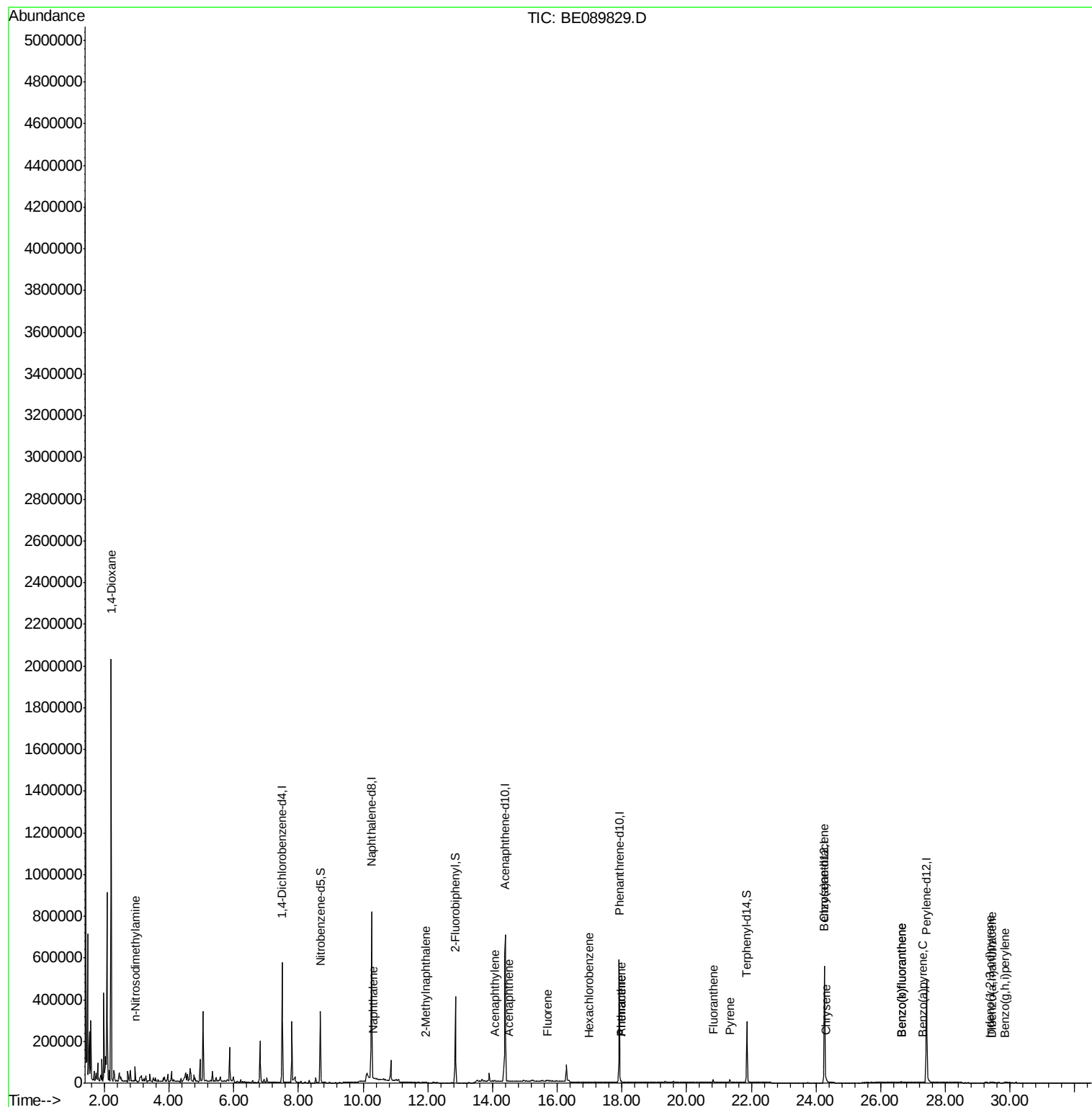
Target Compounds						Qvalue
2) 1,4-Dioxane	2.21	88	51810	1.58	ng	# 1
3) n-Nitrosodimethylamine	2.95	42	5658	0.12	ng	# 10
6) Naphthalene	10.31	128	5551	0.03	ng	# 1
7) 2-Methylnaphthalene	11.93	142	3027	0.03	ng	# 72
10) Acenaphthylene	14.07	152	8063	0.01	ng	# 91
11) Acenaphthene	14.50	154	1196	0.01	ng	# 1
12) Fluorene	15.71	166	1410	0.01	ng	# 87
14) Hexachlorobenzene	16.98	284	1095	0.04	ng	# 87
15) Pentachlorophenol	17.50	266	957	Below Cal		# 85
16) Phenanthrene	17.97	178	8900	0.05	ng	97
17) Anthracene	17.97	178	8900	0.06	ng	95
18) Fluoranthene	20.82	202	18451	0.12	ng	98
20) Pyrene	21.34	202	14927	0.08	ng	# 90
22) Benzo(a)anthracene	24.25	228	6394	0.05	ng	# 85
23) Chrysene	24.32	228	7697	0.05	ng	# 86
24) Indeno(1,2,3-cd)pyrene	29.39	276	2768	0.44	ng	# 78
26) Benzo(b)fluoranthene	26.65	252	9679	0.38	ng	# 62
27) Benzo(k)fluoranthene	26.65	252	9679	0.07	ng	# 65
28) Benzo(a)pyrene	27.30	252	4330	0.33	ng	# 17
29) Dibenzo(a,h)anthracene	29.44	278	708	0.42	ng	# 1
30) Benzo(g,h,i)perylene	29.83	276	4461	0.28	ng	# 76

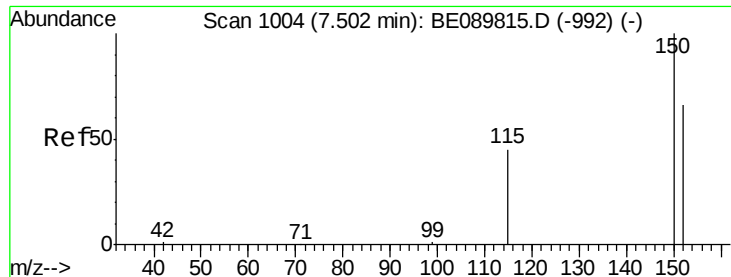
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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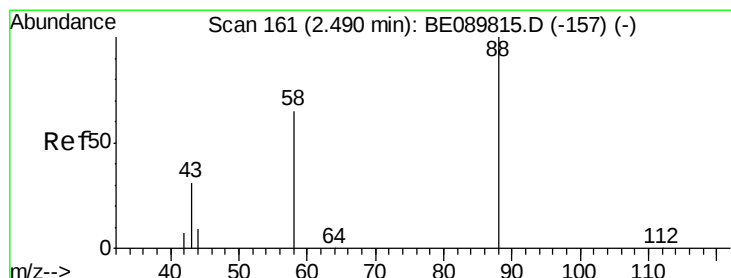
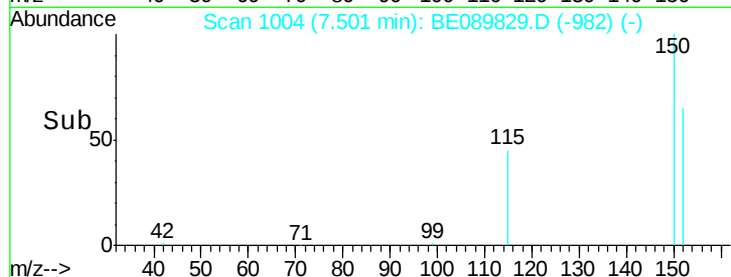
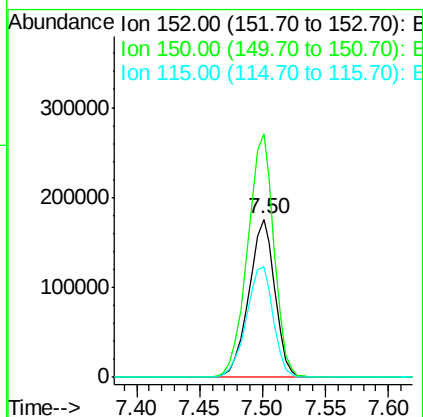
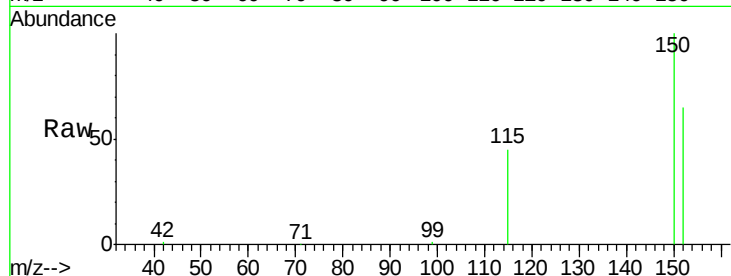




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.50 min Scan# 1004
 Delta R.T. 0.00 min
 Lab File: BE089829.D
 Acq: 25 Mar 2015 2:54

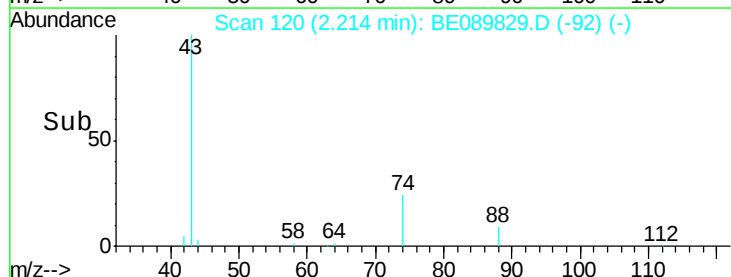
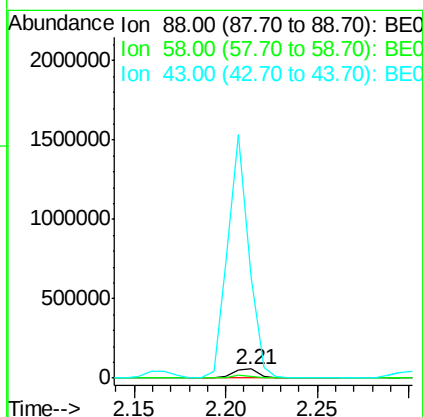
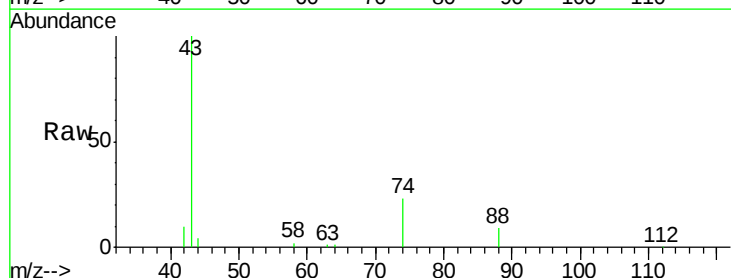
Instrument :
 BNA_E
 ClientSampleId :
 RW-11V

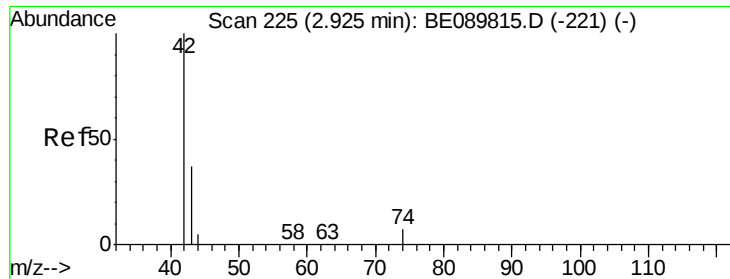
Tgt Ion:152 Resp: 254724
 Ion Ratio Lower Upper
 152 100
 150 154.2 125.5 188.3
 115 69.8 58.0 87.0



#2
 1,4-Dioxane
 Concen: 1.58 ng
 RT: 2.21 min Scan# 120
 Delta R.T. -0.31 min
 Lab File: BE089829.D
 Acq: 25 Mar 2015 2:54

Tgt Ion: 88 Resp: 51810
 Ion Ratio Lower Upper
 88 100
 58 29.8 48.6 72.8#
 43 2352.0 28.6 43.0#





#3

n-Nitrosodimethylamine

Concen: 0.12 ng

RT: 2.95 min Scan# 229

Delta R.T. -0.04 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

Instrument :

BNA_E

ClientSampleId :

RW-11V

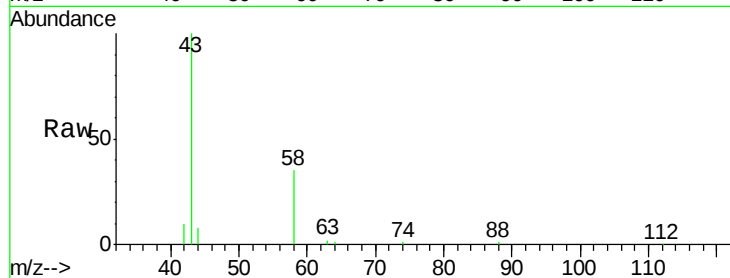
Tgt Ion: 42 Resp: 5658

Ion Ratio Lower Upper

42 100

74 0.0 68.7 103.1#

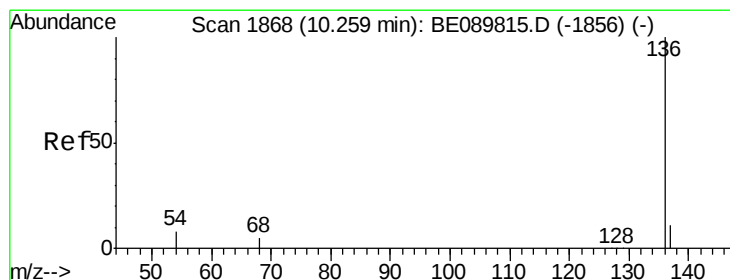
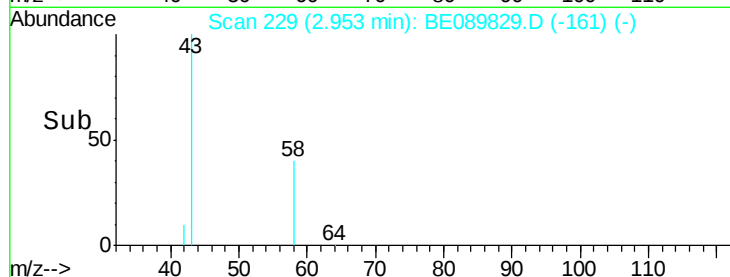
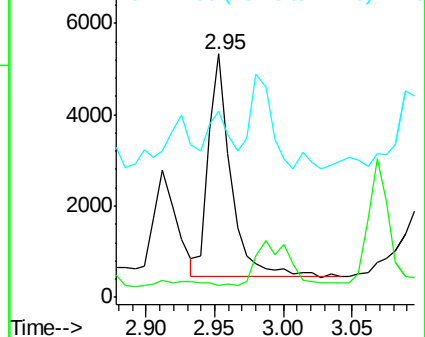
44 24.0 6.2 9.4#



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: BE089829.D

Acq: 25 Mar 2015 2:54

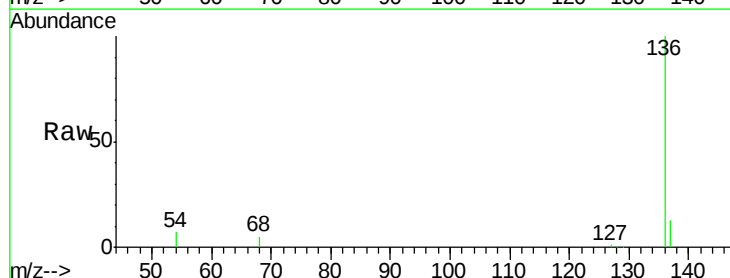
Tgt Ion: 136 Resp: 1035037

Ion Ratio Lower Upper

136 100

137 13.0 8.8 13.2

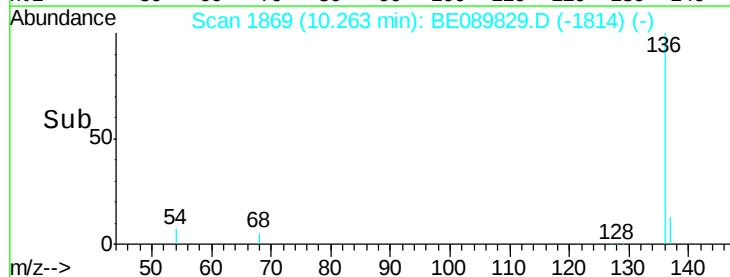
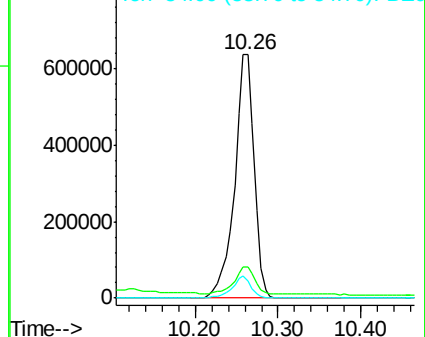
54 7.1 7.0 10.4

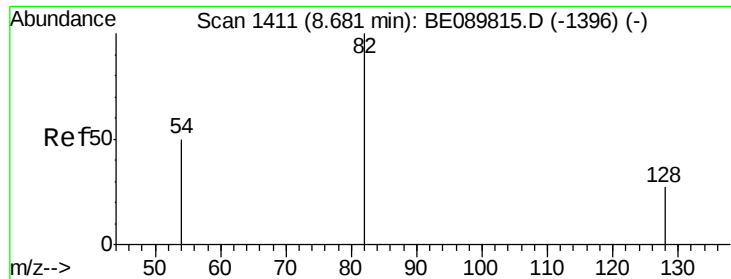


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 3.86 ng

RT: 8.68 min Scan# 1411

Delta R.T. -0.00 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

Instrument :

BNA_E

ClientSampleId :

RW-11V

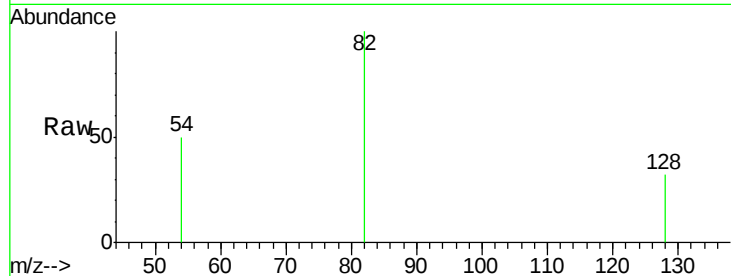
Tgt Ion: 82 Resp: 280256

Ion Ratio Lower Upper

82 100

128 31.9 24.6 37.0

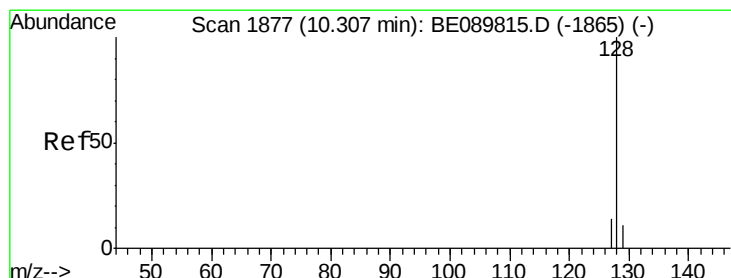
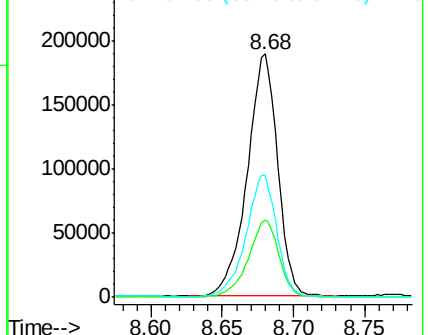
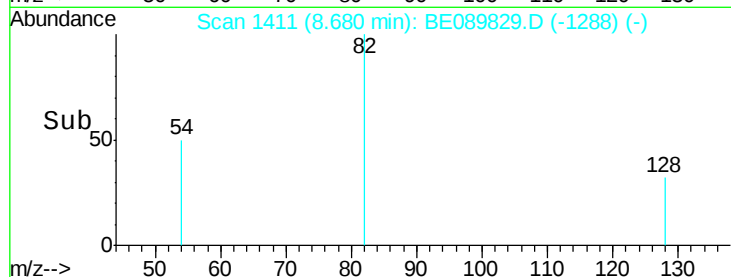
54 50.3 43.0 64.6



Abundance Ion 82.00 (81.70 to 82.70): BE089829.D (-1288) (-)

Ion 128.00 (127.70 to 128.70): BE089829.D (-1288) (-)

Ion 54.00 (53.70 to 54.70): BE089829.D (-1288) (-)



#6

Naphthalene

Concen: 0.03 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

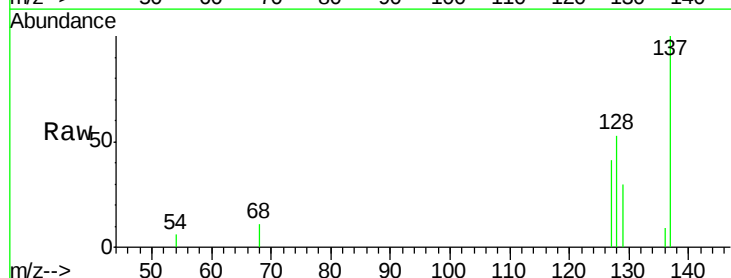
Tgt Ion: 128 Resp: 5551

Ion Ratio Lower Upper

128 100

129 57.3 10.0 15.0#

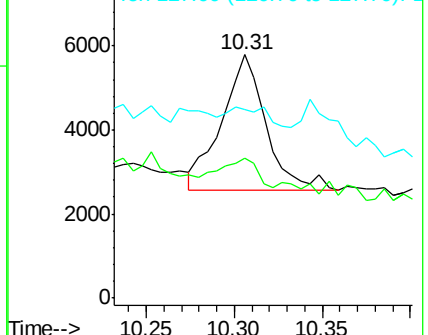
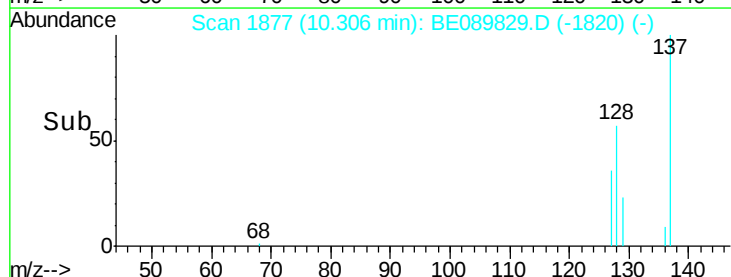
127 77.7 12.5 18.7#

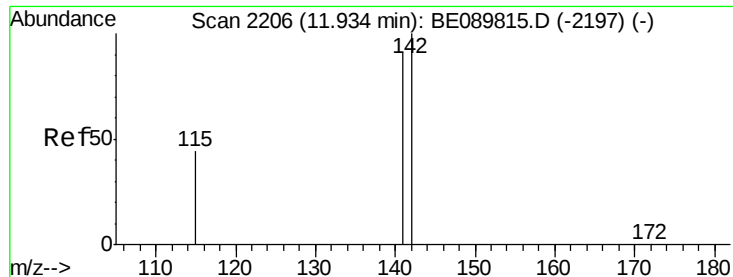


Abundance Ion 128.00 (127.70 to 128.70): BE089829.D (-1820) (-)

Ion 129.00 (128.70 to 129.70): BE089829.D (-1820) (-)

Ion 127.00 (126.70 to 127.70): BE089829.D (-1820) (-)





#7

2-Methylnaphthalene

Concen: 0.03 ng

RT: 11.93 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

Instrument :

BNA_E

ClientSampleId :

RW-11V

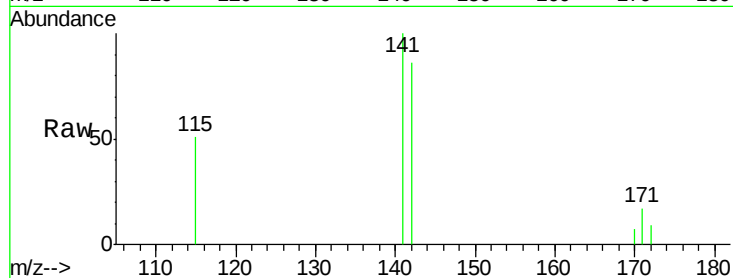
Tgt Ion:142 Resp: 3027

Ion Ratio Lower Upper

142 100

141 116.7 72.8 109.2#

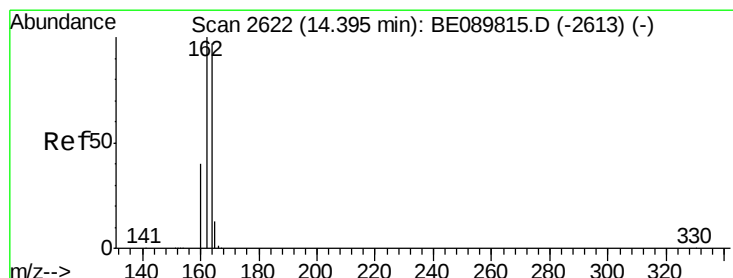
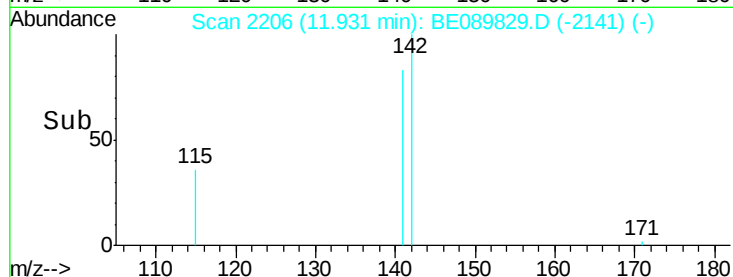
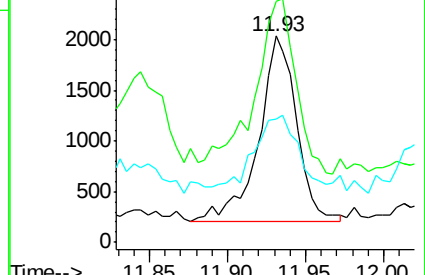
115 60.0 32.9 49.3#



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: 14.40 min Scan# 2623

Delta R.T. 0.01 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

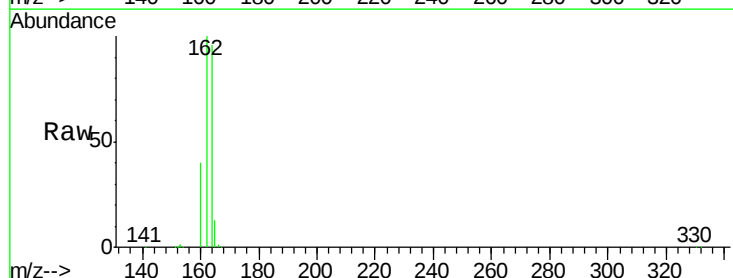
Tgt Ion:164 Resp: 451495

Ion Ratio Lower Upper

164 100

162 104.1 87.6 131.4

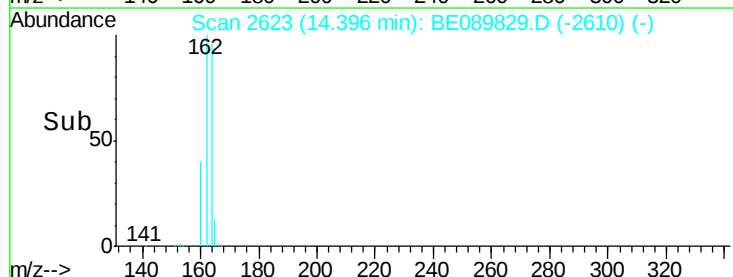
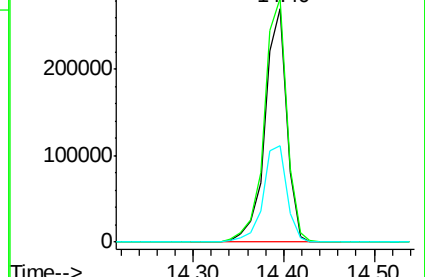
160 41.5 36.7 55.1

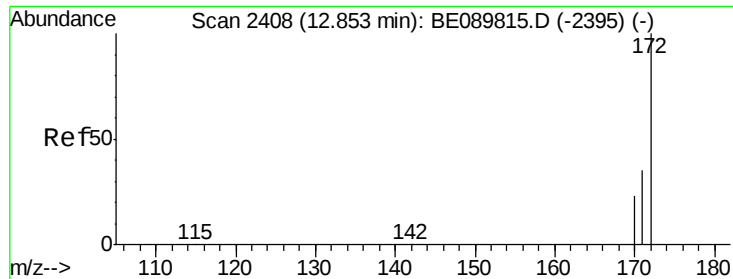


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 3.83 ng

RT: 12.85 min Scan# 2409

Delta R.T. 0.00 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

Instrument :

BNA_E

ClientSampleId :

RW-11V

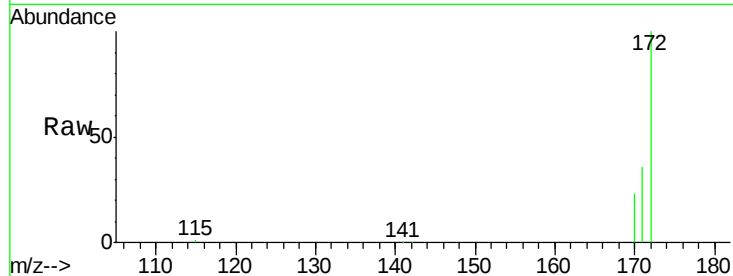
Tgt Ion:172 Resp: 404445

Ion Ratio Lower Upper

172 100

171 36.0 30.8 46.2

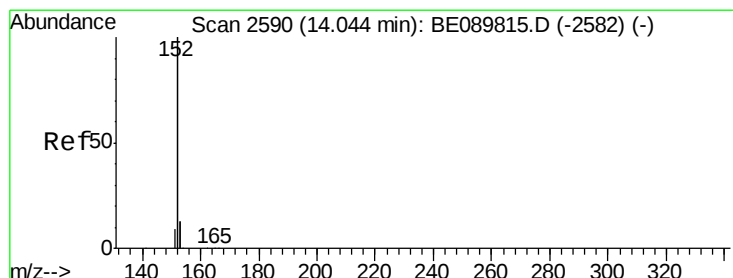
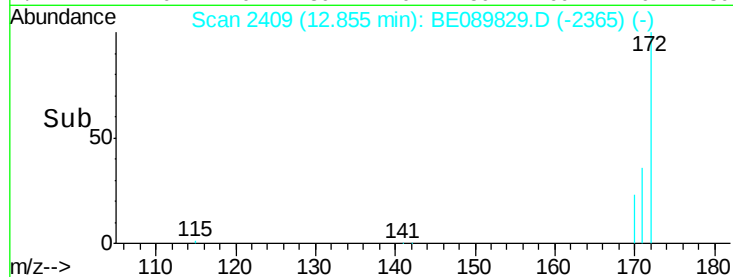
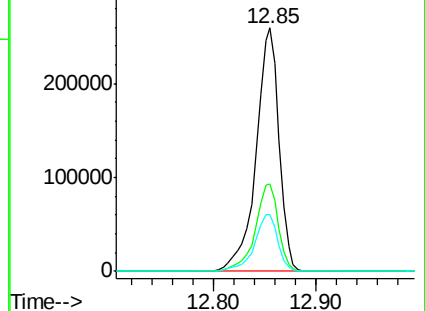
170 23.1 21.0 31.4



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: BE089829.D

Acq: 25 Mar 2015 2:54

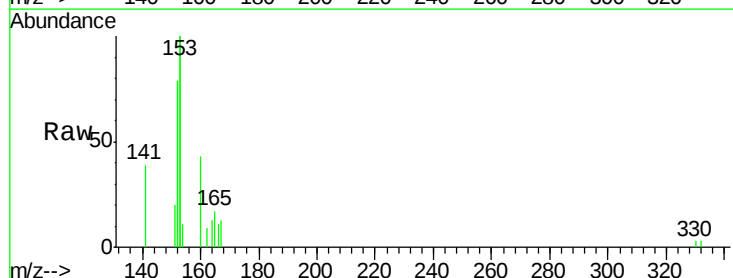
Tgt Ion:152 Resp: 8063

Ion Ratio Lower Upper

152 100

151 0.0 3.9 5.9#

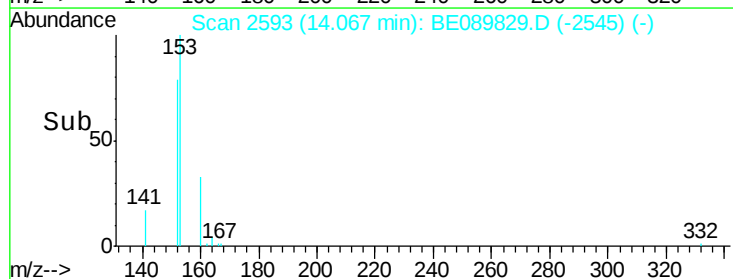
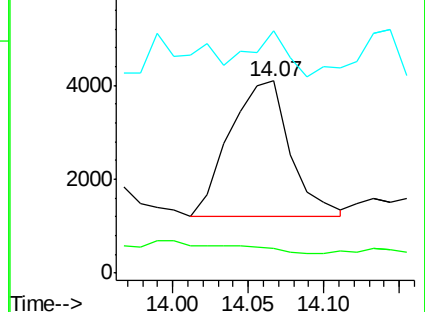
153 16.5 11.0 16.4#

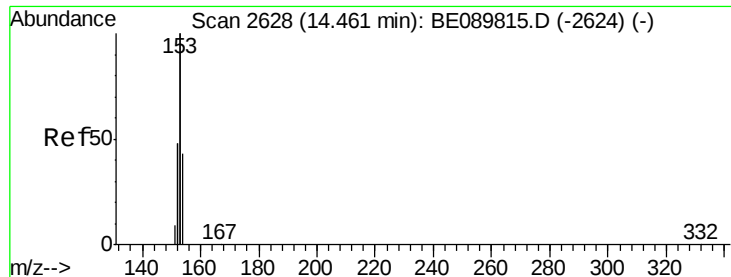


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.01 ng

RT: 14.50 min Scan# 2632

Delta R.T. 0.03 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

Instrument :

BNA_E

ClientSampleId :

RW-11V

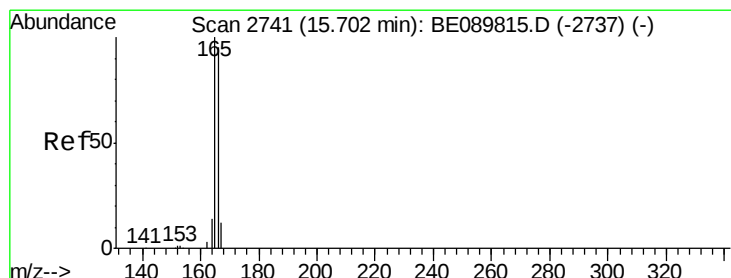
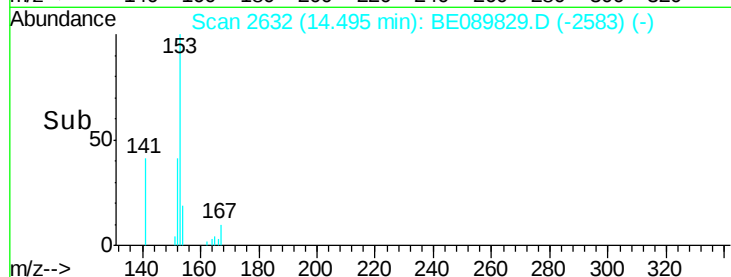
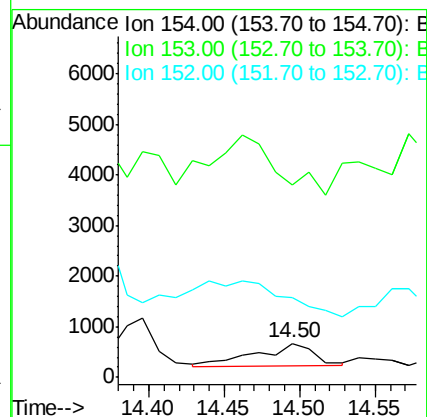
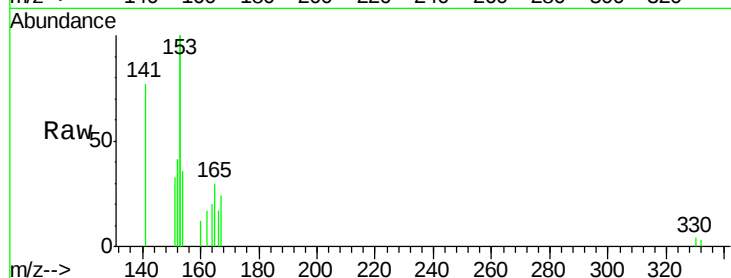
Tgt Ion:154 Resp: 1196

Ion Ratio Lower Upper

154 100

153 0.0 401.5 602.3#

152 0.0 198.6 298.0#



#12

Fluorene

Concen: 0.01 ng

RT: 15.71 min Scan# 2743

Delta R.T. 0.00 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

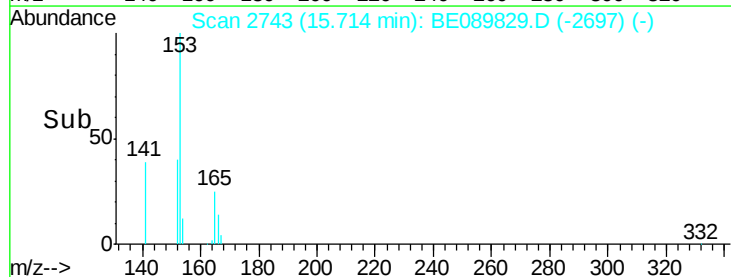
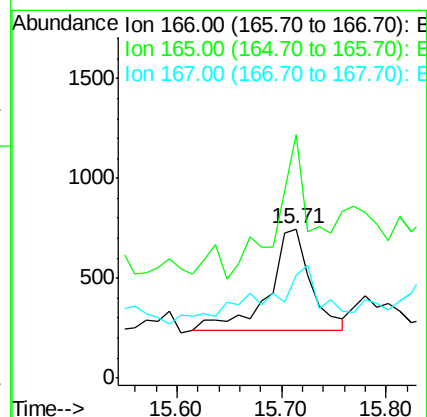
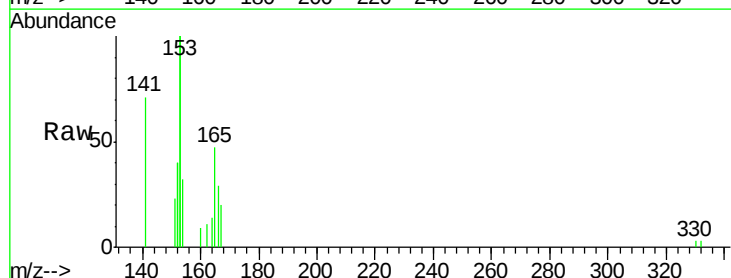
Tgt Ion:166 Resp: 1410

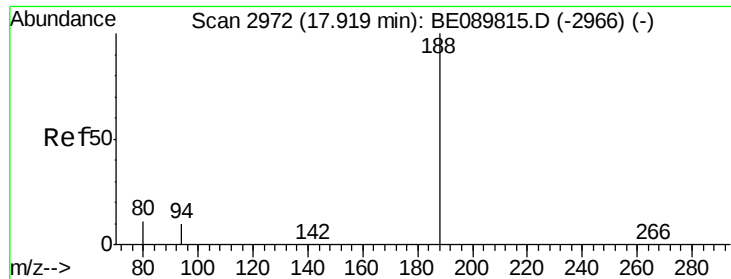
Ion Ratio Lower Upper

166 100

165 116.3 85.1 127.7

167 32.1 12.2 18.4#

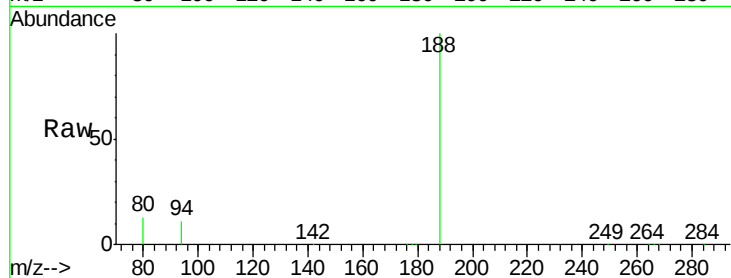




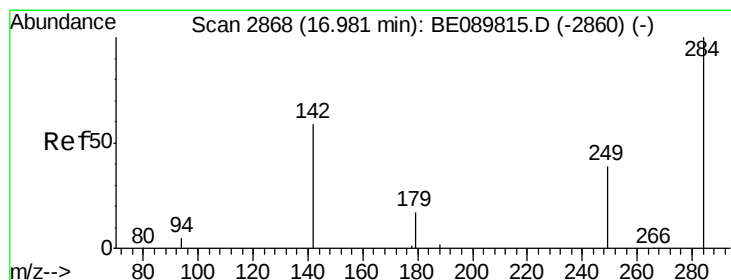
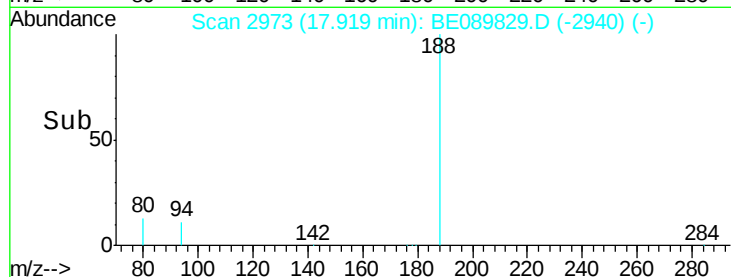
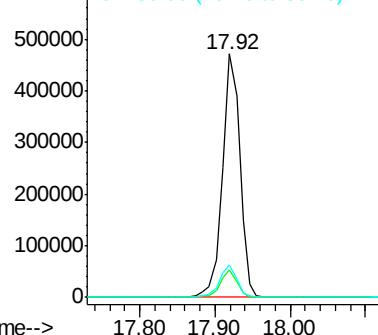
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.92 min Scan# 2973
Delta R.T. 0.00 min
Lab File: BE089829.D
Acq: 25 Mar 2015 2:54

Instrument :
BNA_E
ClientSampleId :
RW-11V

Tgt Ion:188 Resp: 759636
Ion Ratio Lower Upper
188 100
94 11.4 8.5 12.7
80 13.3 10.0 15.0

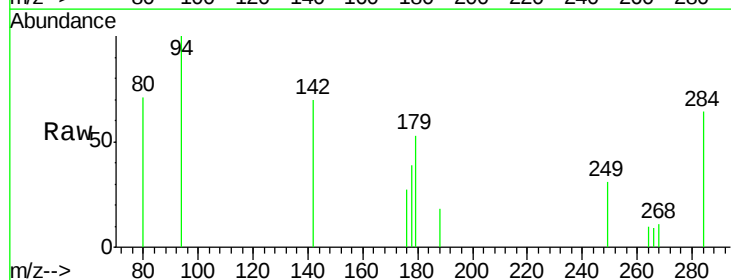


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

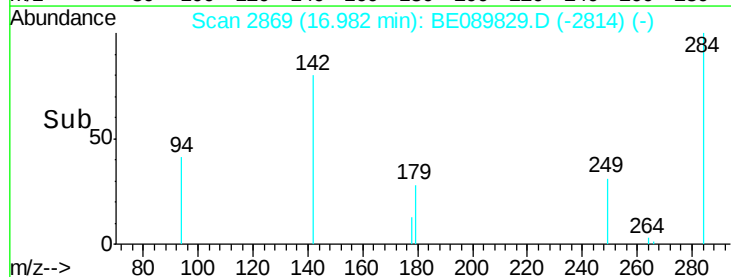
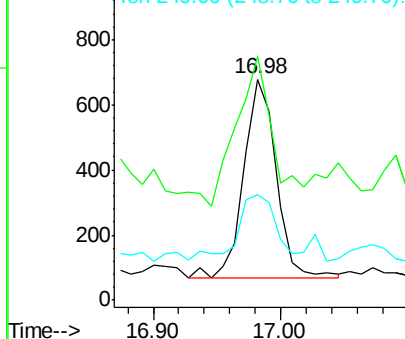


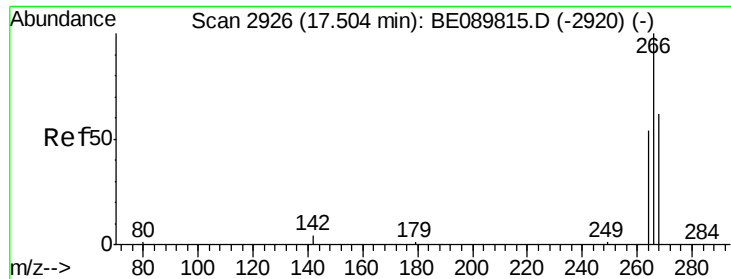
#14
Hexachlorobenzene
Concen: 0.04 ng
RT: 16.98 min Scan# 2869
Delta R.T. 0.00 min
Lab File: BE089829.D
Acq: 25 Mar 2015 2:54

Tgt Ion:284 Resp: 1095
Ion Ratio Lower Upper
284 100
142 82.4 53.3 79.9#
249 37.8 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: 17.50 min Scan# 2927

Delta R.T. 0.00 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

Instrument :

BNA_E

ClientSampleId :

RW-11V

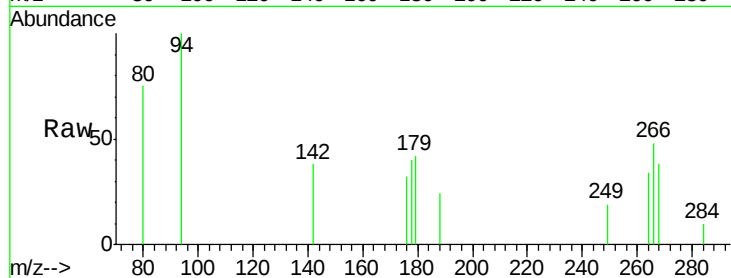
Tgt Ion:266 Resp: 957

Ion Ratio Lower Upper

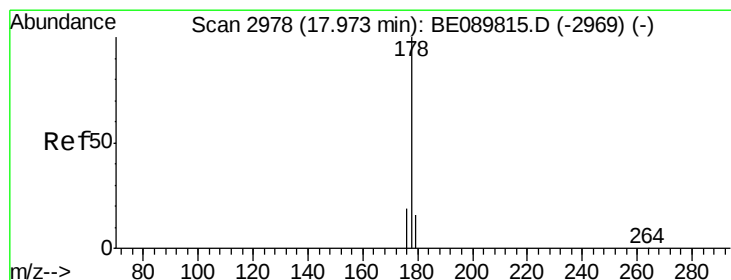
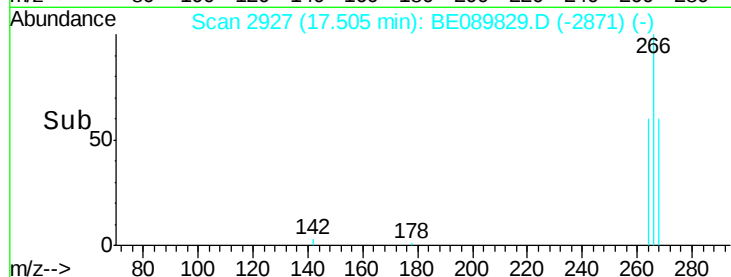
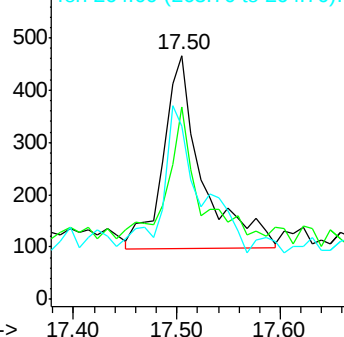
266 100

268 79.0 51.6 77.4#

264 71.2 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: 17.97 min Scan# 2979

Delta R.T. 0.00 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

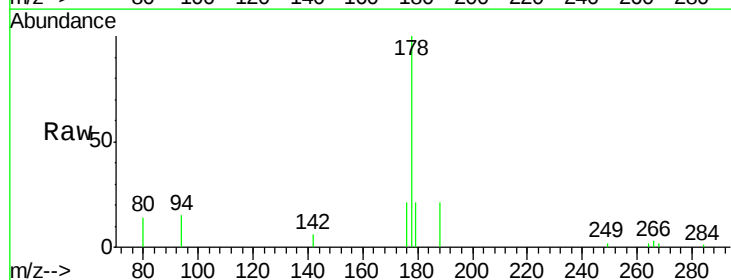
Tgt Ion:178 Resp: 8900

Ion Ratio Lower Upper

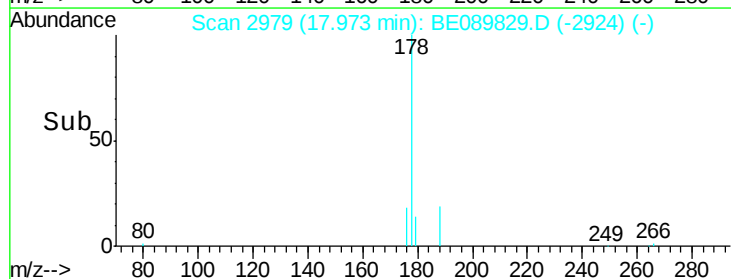
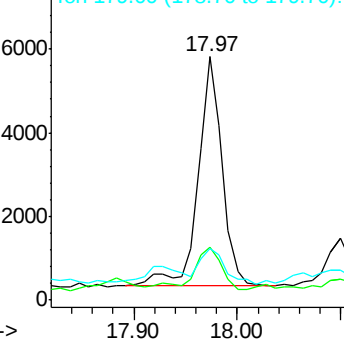
178 100

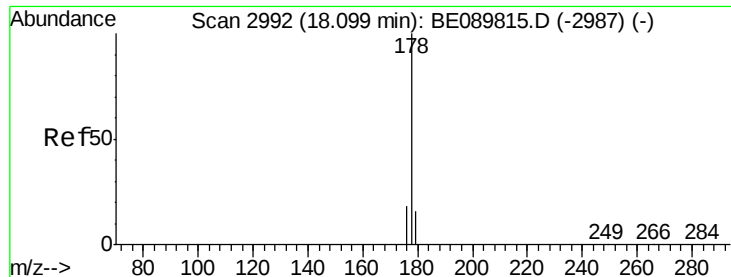
176 21.5 15.4 23.0

179 15.9 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: 0.06 ng

RT: 17.97 min Scan# 2979

Delta R.T. -0.13 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

Instrument :

BNA_E

ClientSampleId :

RW-11V

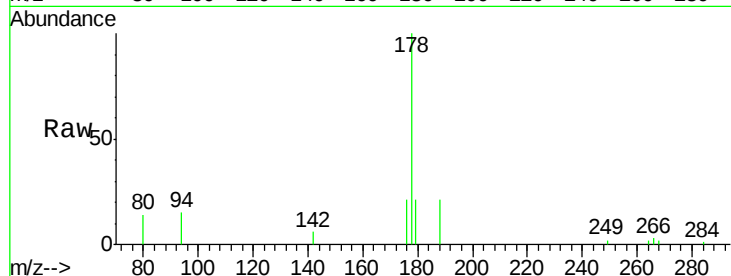
Tgt Ion:178 Resp: 8900

Ion Ratio Lower Upper

178 100

176 21.5 14.6 21.8

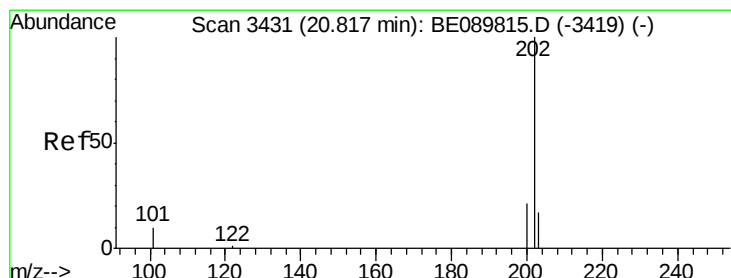
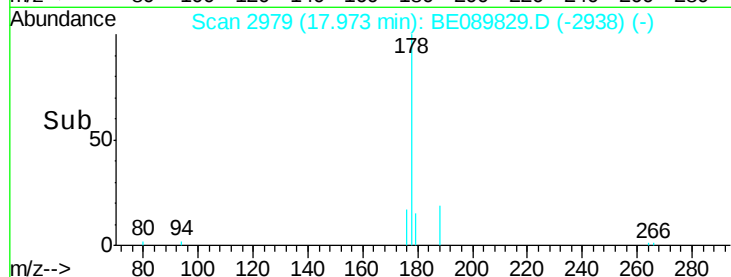
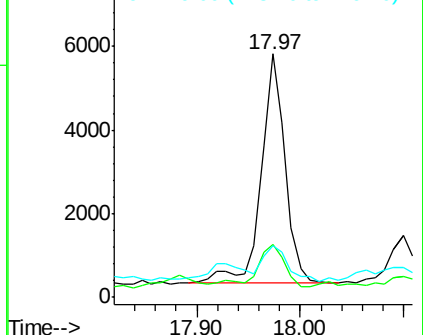
179 15.9 12.1 18.1



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: 0.12 ng

RT: 20.82 min Scan# 3433

Delta R.T. 0.00 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

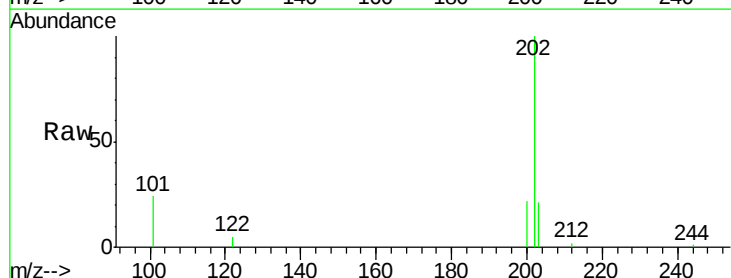
Tgt Ion:202 Resp: 18451

Ion Ratio Lower Upper

202 100

101 12.1 8.2 12.2

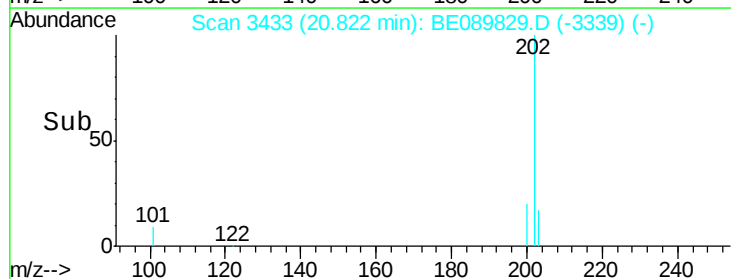
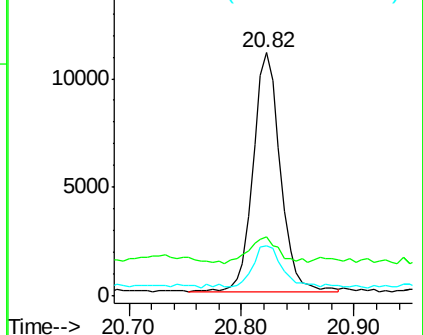
203 18.2 14.2 21.4

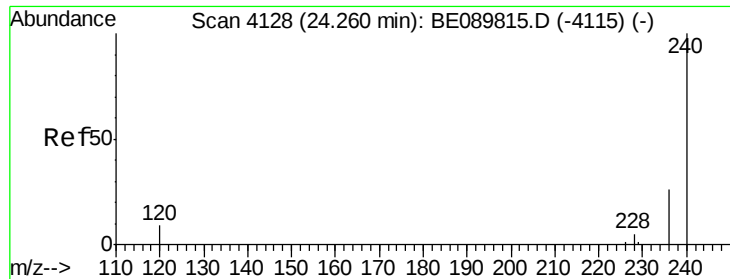


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE089829.D

Acq: 25 Mar 2015 2:54

Instrument :

BNA_E

ClientSampleId :

RW-11V

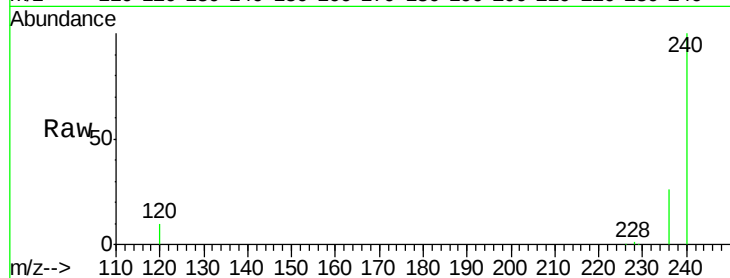
Tgt Ion:240 Resp: 700193

Ion Ratio Lower Upper

240 100

120 9.8 7.5 11.3

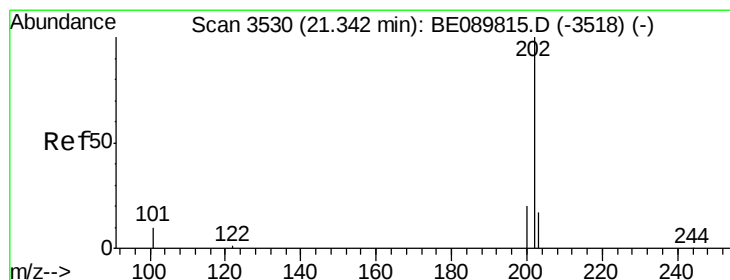
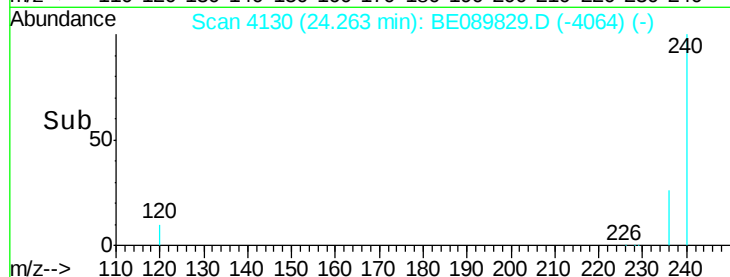
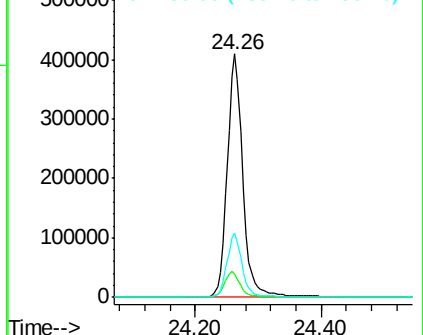
236 26.4 20.5 30.7



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: 0.08 ng

RT: 21.34 min Scan# 3531

Delta R.T. -0.01 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

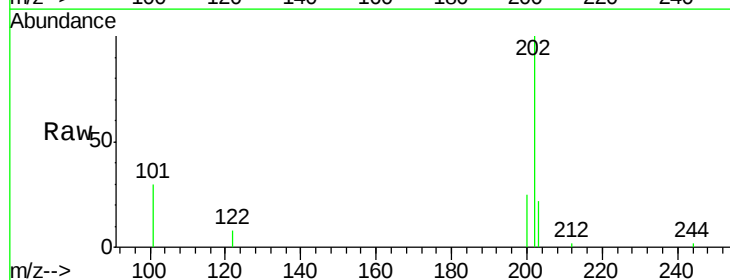
Tgt Ion:202 Resp: 14927

Ion Ratio Lower Upper

202 100

200 24.0 15.9 23.9#

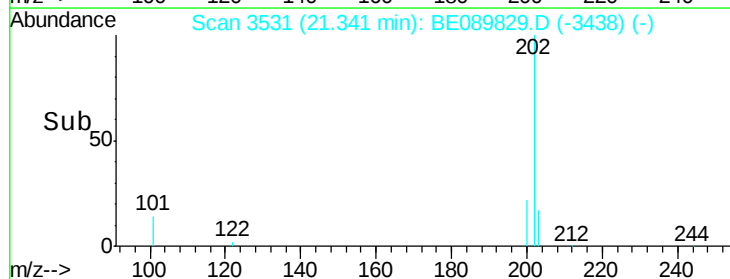
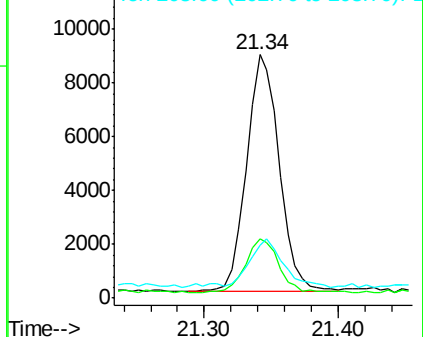
203 21.9 13.6 20.4#

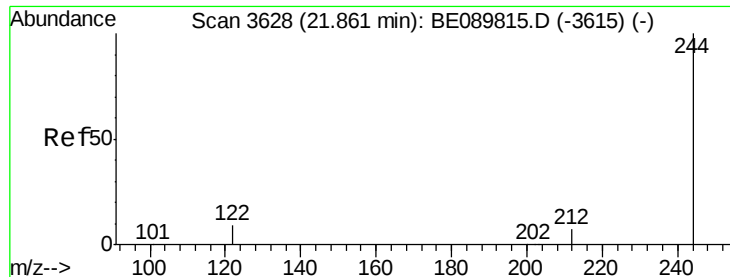


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

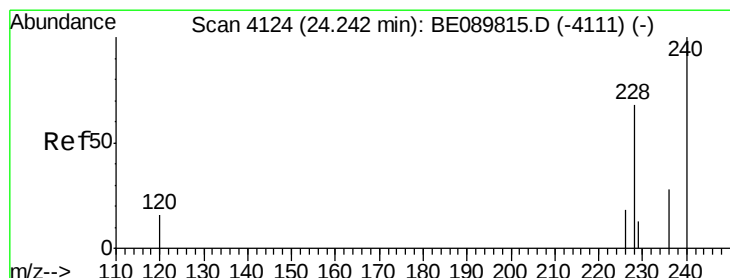
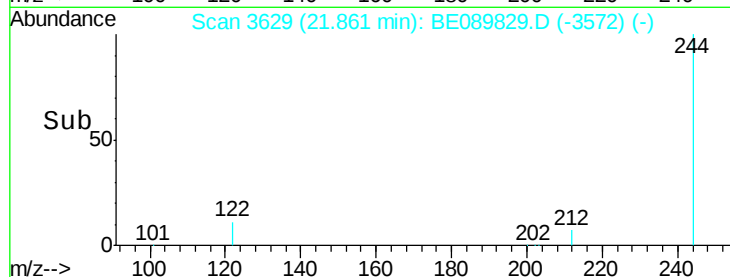
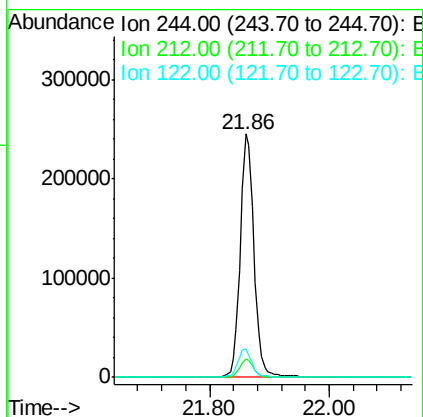
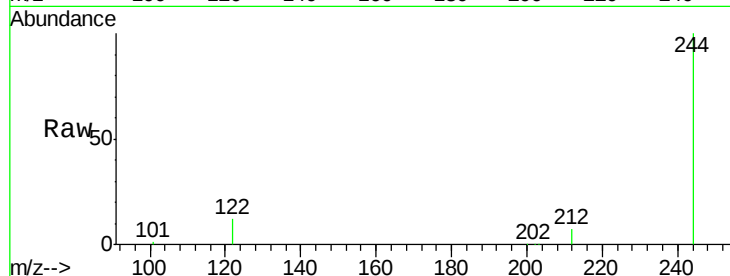




#21
 Terphenyl-d14
 Concen: 3.78 ng
 RT: 21.86 min Scan# 3629
 Delta R.T. 0.00 min
 Lab File: BE089829.D
 Acq: 25 Mar 2015 2:54

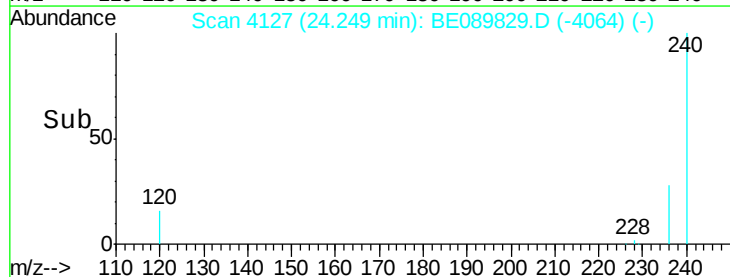
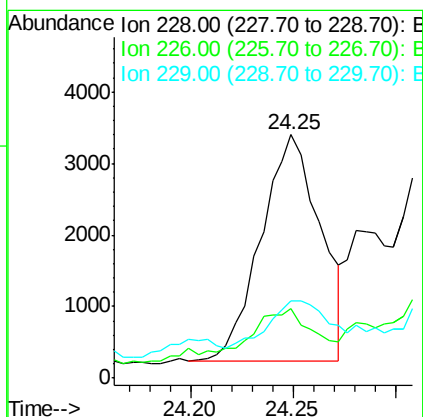
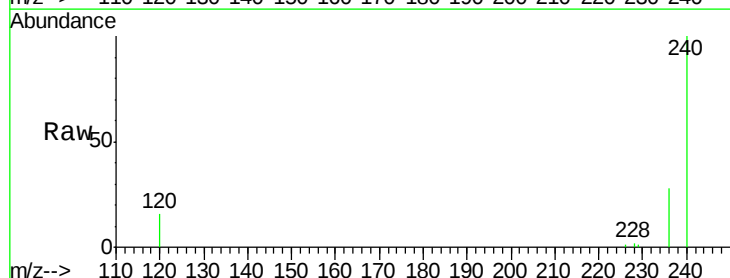
Instrument :
 BNA_E
 ClientSampleId :
 RW-11V

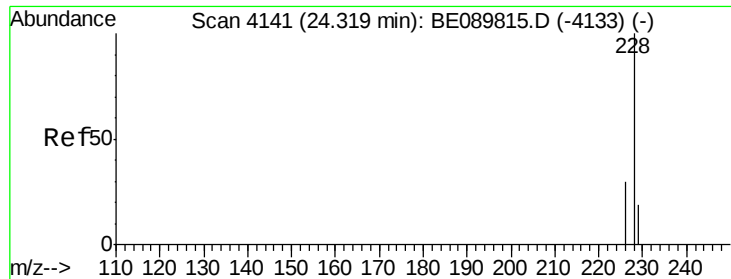
Tgt Ion:244 Resp: 390844
 Ion Ratio Lower Upper
 244 100
 212 7.3 7.3 10.9
 122 11.6 10.5 15.7



#22
 Benzo(a)anthracene
 Concen: 0.05 ng
 RT: 24.25 min Scan# 4127
 Delta R.T. 0.00 min
 Lab File: BE089829.D
 Acq: 25 Mar 2015 2:54

Tgt Ion:228 Resp: 6394
 Ion Ratio Lower Upper
 228 100
 226 28.6 19.8 29.8
 229 31.7 16.3 24.5#





#23

Chrysene

Concen: 0.05 ng

RT: 24.32 min Scan# 4143

Delta R.T. 0.01 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

Instrument :

BNA_E

ClientSampleId :

RW-11V

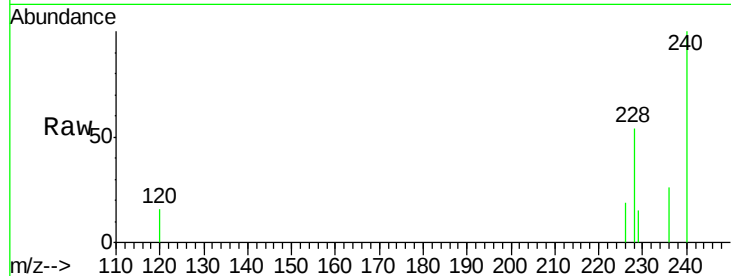
Tgt Ion:228 Resp: 7697

Ion Ratio Lower Upper

228 100

226 35.5 23.0 34.4#

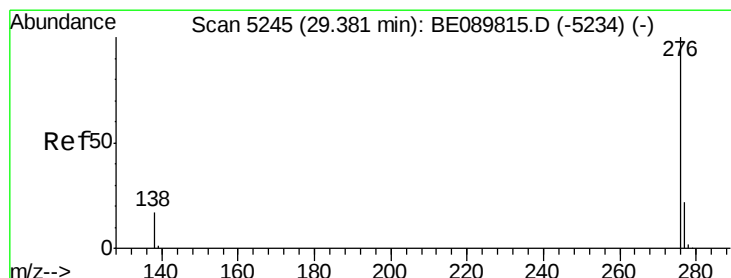
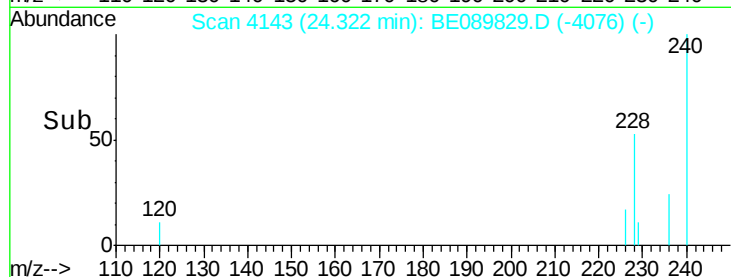
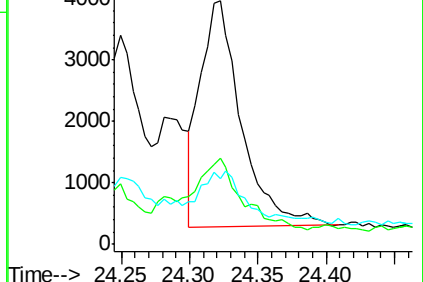
229 27.1 15.8 23.6#



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: 0.44 ng

RT: 29.39 min Scan# 5248

Delta R.T. 0.00 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

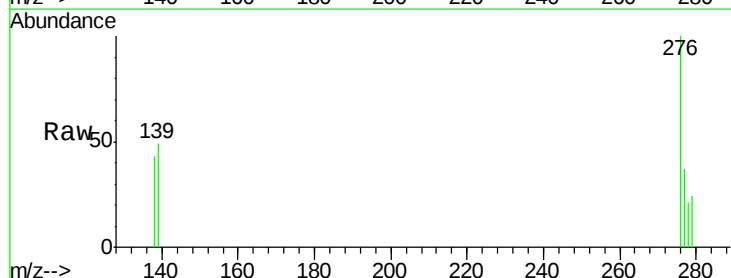
Tgt Ion:276 Resp: 2768

Ion Ratio Lower Upper

276 100

138 10.9 4.3 6.5#

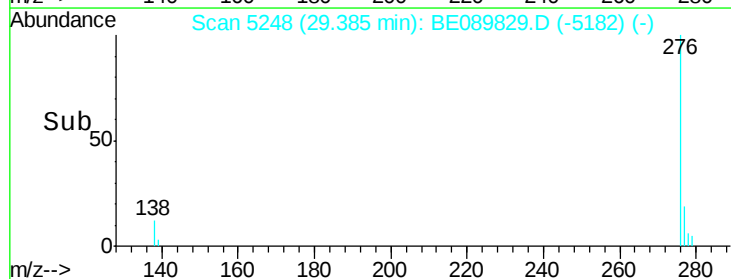
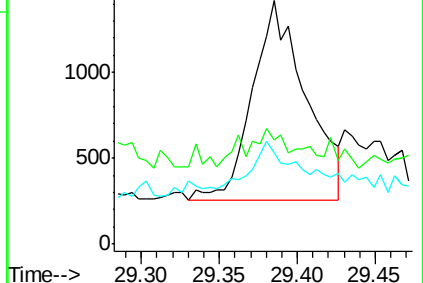
277 20.6 9.0 13.4#

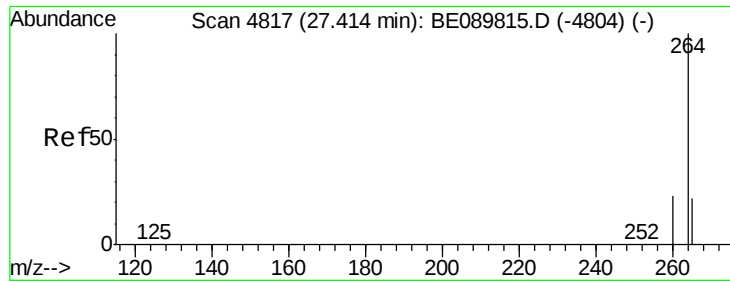


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

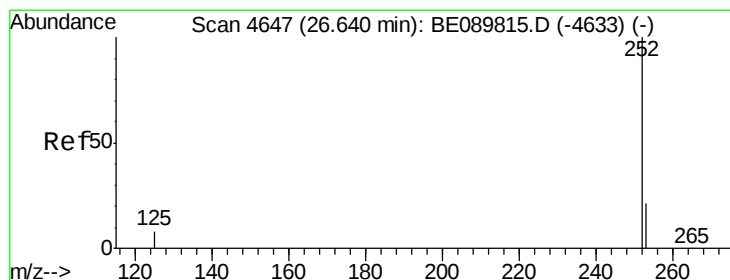
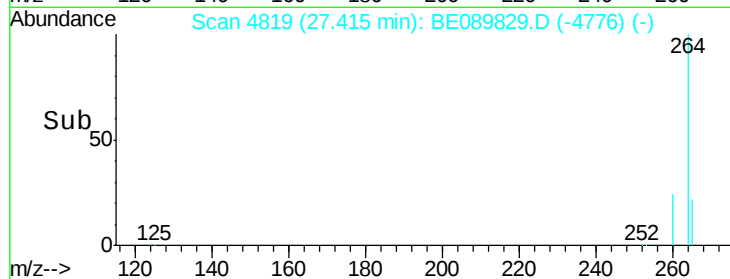
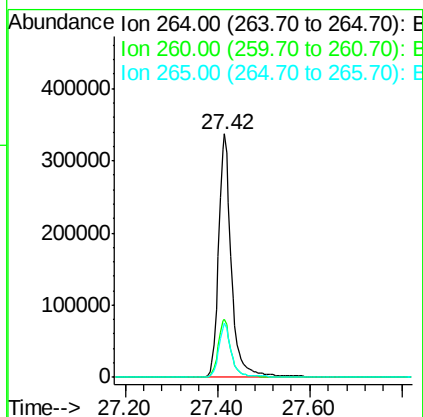
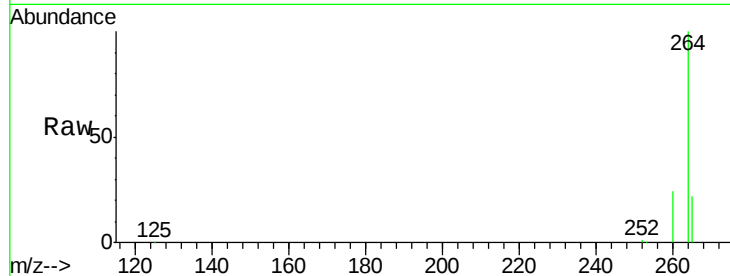




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 27.42 min Scan# 4819
 Delta R.T. 0.00 min
 Lab File: BE089829.D
 Acq: 25 Mar 2015 2:54

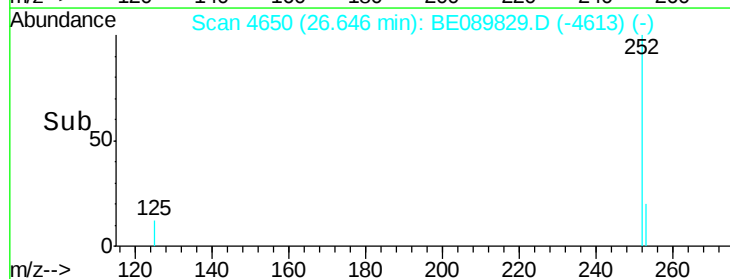
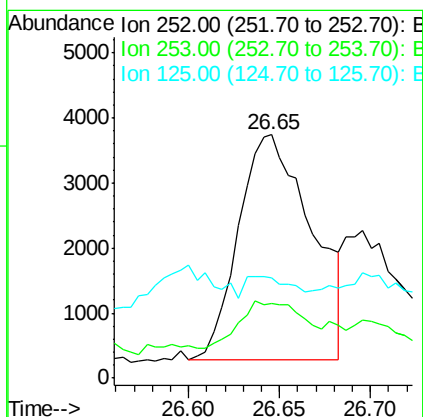
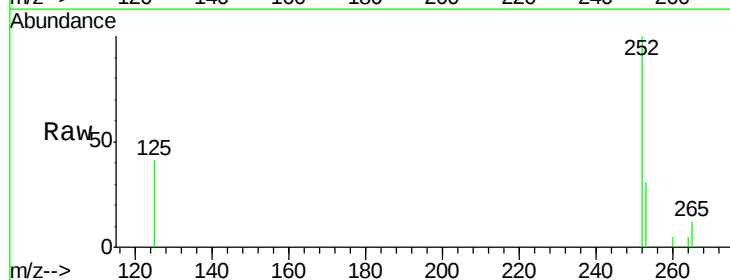
Instrument :
 BNA_E
 ClientSampleId :
 RW-11V

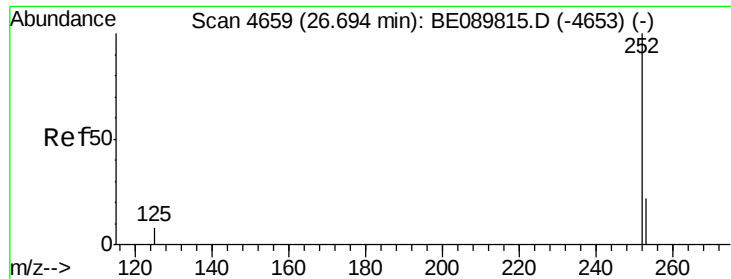
Tgt Ion: 264 Resp: 654485
 Ion Ratio Lower Upper
 264 100
 260 23.9 18.2 27.2
 265 22.0 17.3 25.9



#26
 Benzo(b)fluoranthene
 Concen: 0.38 ng
 RT: 26.65 min Scan# 4650
 Delta R.T. 0.01 min
 Lab File: BE089829.D
 Acq: 25 Mar 2015 2:54

Tgt Ion: 252 Resp: 9679
 Ion Ratio Lower Upper
 252 100
 253 30.8 17.8 26.6#
 125 41.3 8.7 13.1#

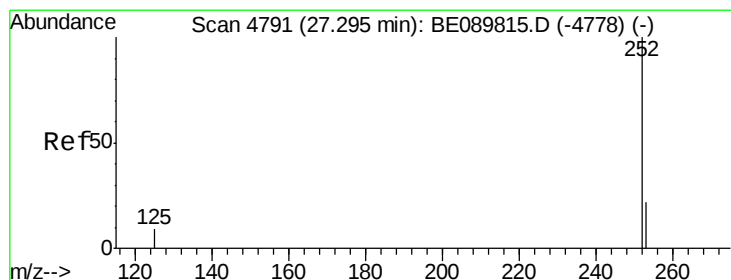
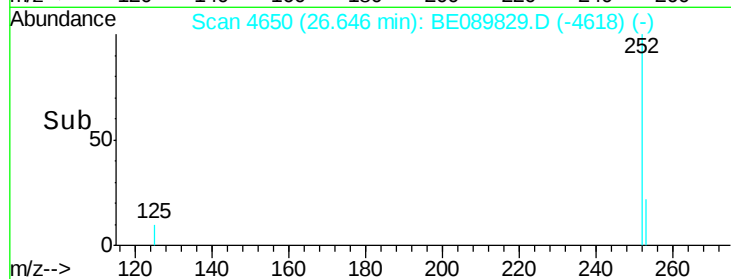
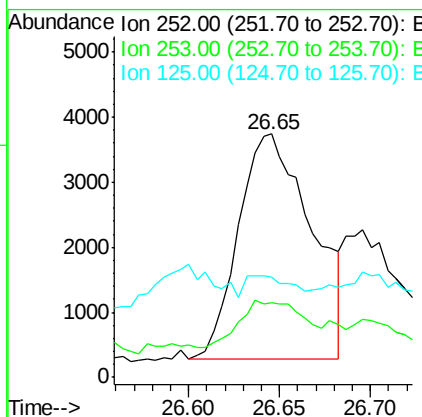
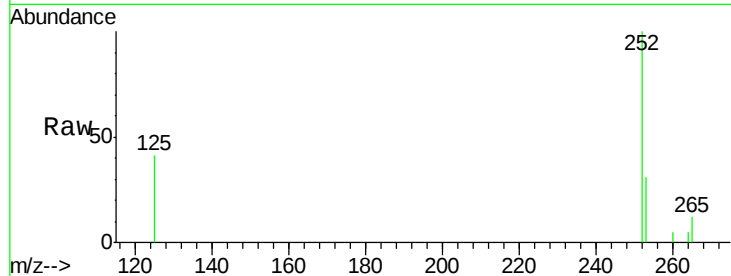




#27
Benzo(k)fluoranthene
Concen: 0.07 ng
RT: 26.65 min Scan# 4650
Delta R.T. -0.05 min
Lab File: BE089829.D
Acq: 25 Mar 2015 2:54

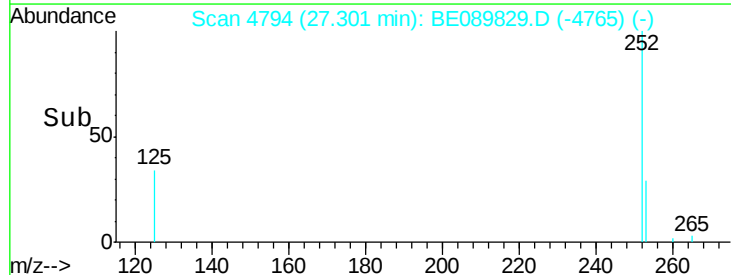
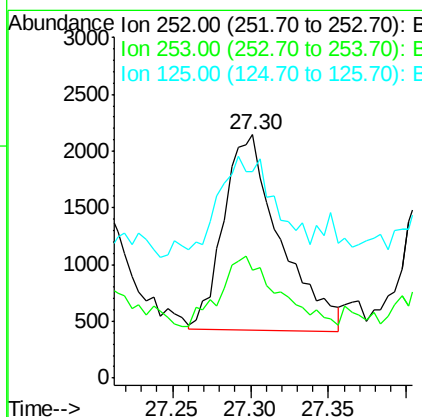
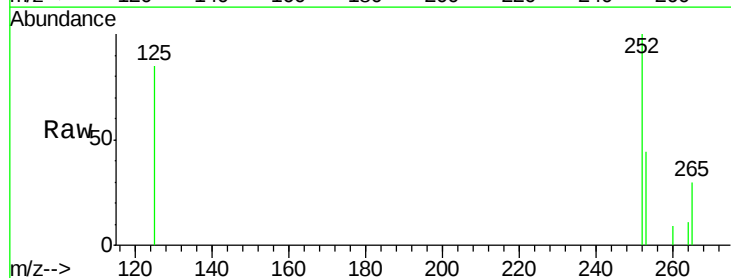
Instrument :
BNA_E
ClientSampleId :
RW-11V

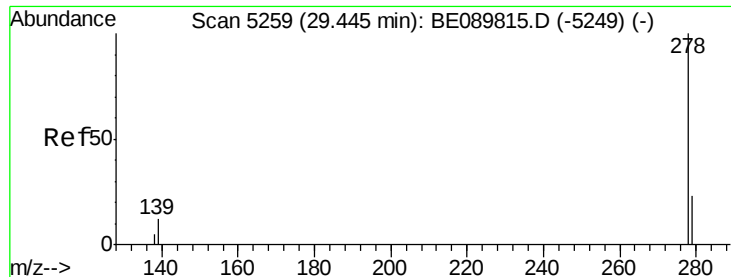
Tgt Ion: 252 Resp: 9679
Ion Ratio Lower Upper
252 100
253 30.8 18.6 28.0#
125 41.3 10.8 16.2#



#28
Benzo(a)pyrene
Concen: 0.33 ng
RT: 27.30 min Scan# 4794
Delta R.T. 0.00 min
Lab File: BE089829.D
Acq: 25 Mar 2015 2:54

Tgt Ion: 252 Resp: 4330
Ion Ratio Lower Upper
252 100
253 44.3 21.0 31.4#
125 84.6 13.3 19.9#





#29

Dibenzo(a,h)anthracene

Concen: 0.42 ng

RT: 29.44 min Scan# 5261

Delta R.T. 0.00 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

Instrument :

BNA_E

ClientSampleId :

RW-11V

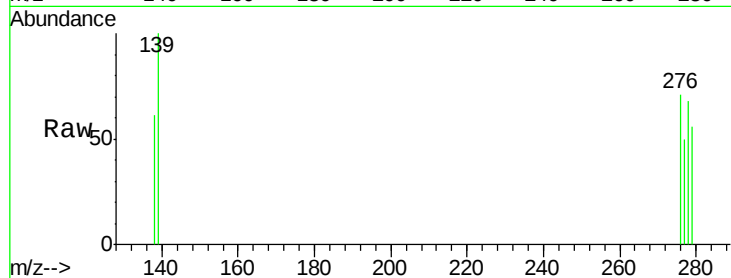
Tgt Ion: 278 Resp: 708

Ion Ratio Lower Upper

278 100

139 148.0 20.0 30.0#

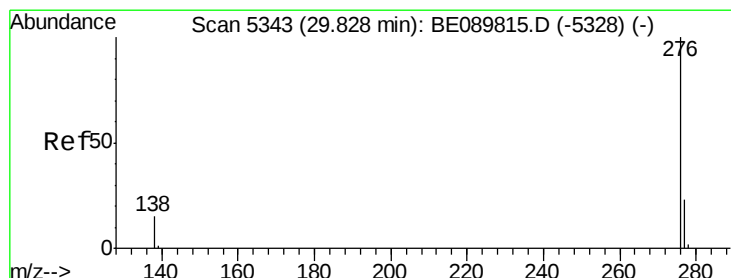
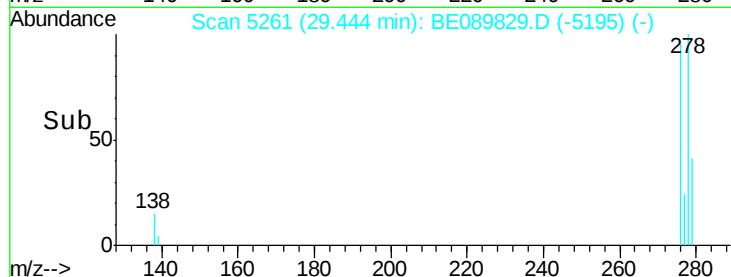
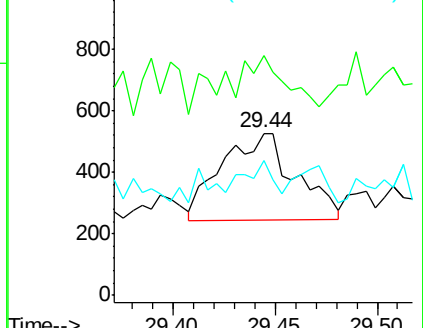
279 83.5 28.9 43.3#



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



#30

Benzo(g,h,i)perylene

Concen: 0.28 ng

RT: 29.83 min Scan# 5346

Delta R.T. 0.01 min

Lab File: BE089829.D

Acq: 25 Mar 2015 2:54

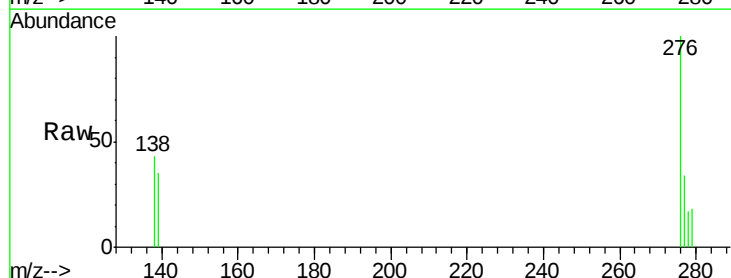
Tgt Ion: 276 Resp: 4461

Ion Ratio Lower Upper

276 100

277 34.1 19.2 28.8#

138 43.1 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

