

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089834.D
 Acq On : 25 Mar 2015 6:17
 Operator : TP/JJ
 Sample : G1575-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-24V

Quant Time: Mar 25 17:06:29 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

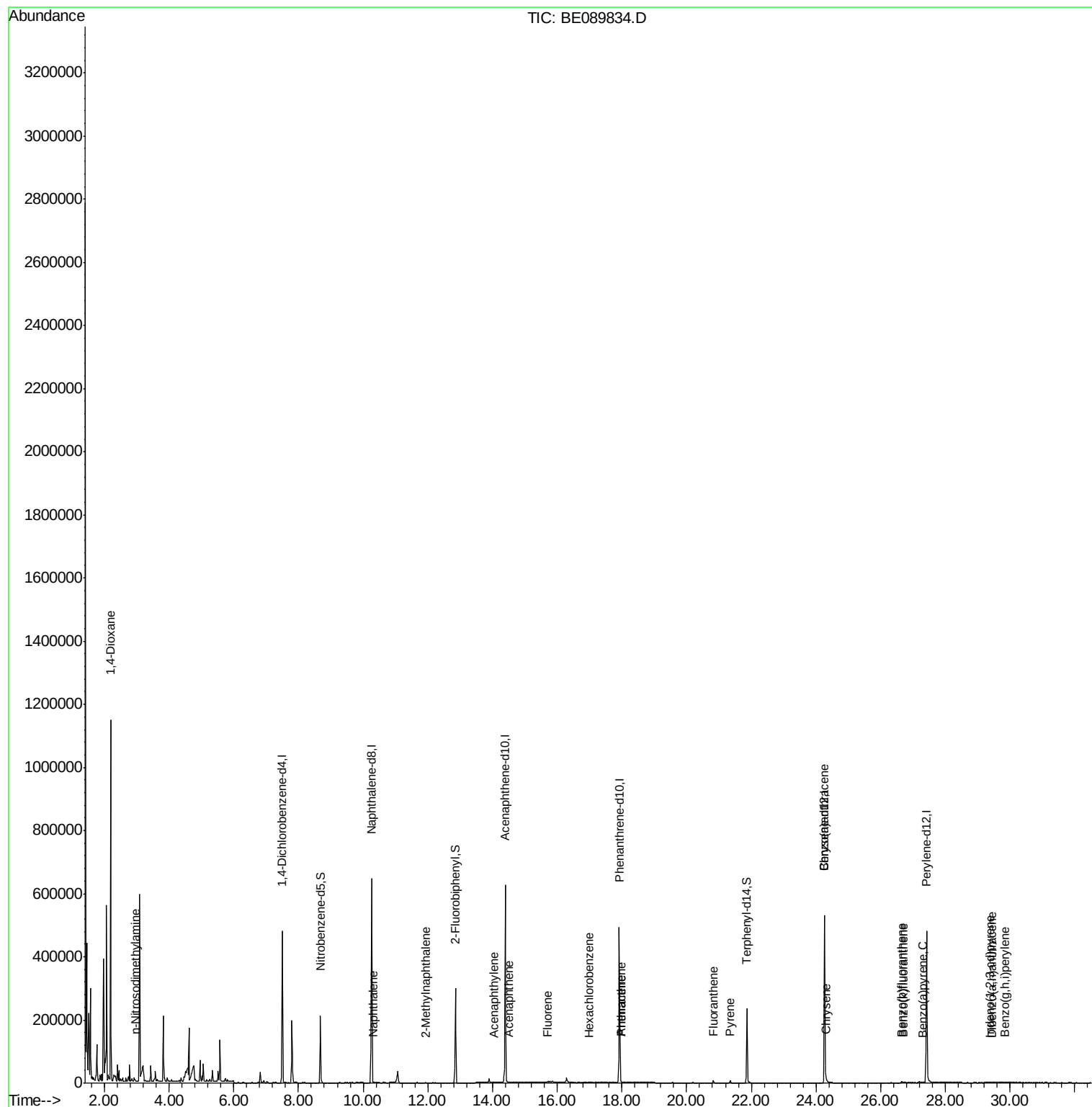
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	208943	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	850500	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	387700	5.00	ng	0.01
13) Phenanthrene-d10	17.93	188	683738	5.00	ng	0.00
19) Chrysene-d12	24.26	240	658072	5.00	ng	0.00
25) Perylene-d12	27.42	264	611242	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	174784	2.99	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	284261	3.13	ng	0.00
21) Terphenyl-d14	21.87	244	329434	3.39	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.20	88	31641	1.17	ng	# 1
3) n-Nitrosodimethylamine	2.95	42	1115	0.03	ng	# 24
6) Naphthalene	10.31	128	1994	0.01	ng	# 70
7) 2-Methylnaphthalene	11.94	142	1019	0.01	ng	# 84
10) Acenaphthylene	14.04	152	1816	0.00	ng	# 75
11) Acenaphthene	14.51	154	602	0.01	ng	# 1
12) Fluorene	15.71	166	922	0.01	ng	# 56
14) Hexachlorobenzene	16.99	284	36	0.00	ng	# 1
15) Pentachlorophenol	17.42	266	29	Below Cal		88
16) Phenanthrene	17.97	178	4783	0.03	ng	96
17) Anthracene	17.97	178	4783	0.04	ng	95
18) Fluoranthene	20.83	202	8644	0.06	ng	96
20) Pyrene	21.35	202	8406	0.05	ng	96
22) Benzo(a)anthracene	24.25	228	3910	0.03	ng	# 83
23) Chrysene	24.32	228	3780	0.03	ng	93
24) Indeno(1,2,3-cd)pyrene	29.39	276	3510	0.45	ng	# 88
26) Benzo(b)fluoranthene	26.65	252	7653	0.37	ng	# 81
27) Benzo(k)fluoranthene	26.70	252	3073	0.02	ng	# 32
28) Benzo(a)pyrene	27.30	252	2261	0.31	ng	# 39
29) Dibenzo(a,h)anthracene	29.45	278	597	0.27	ng	# 1
30) Benzo(g,h,i)perylene	29.83	276	4618	0.29	ng	# 85

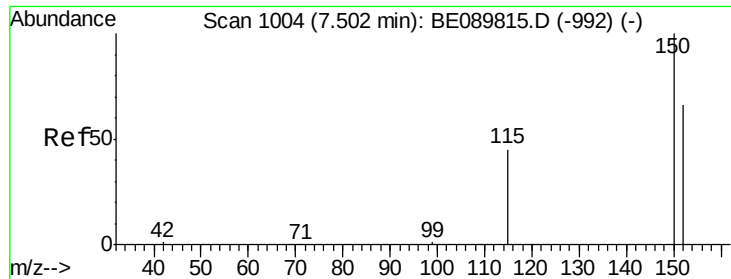
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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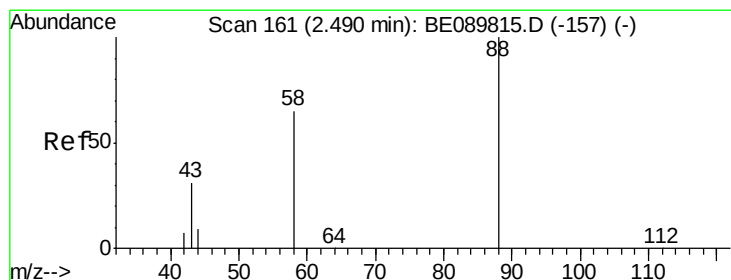
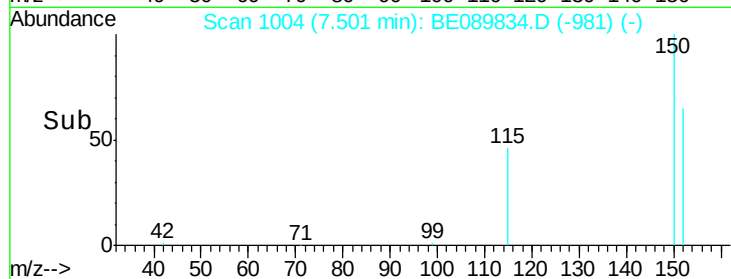
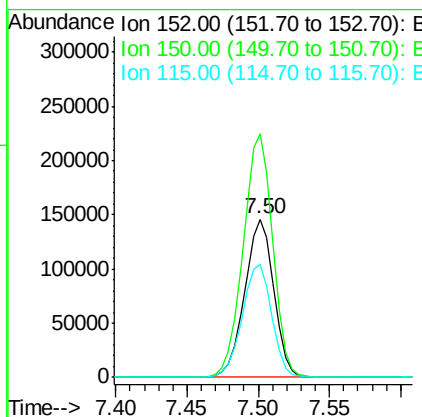
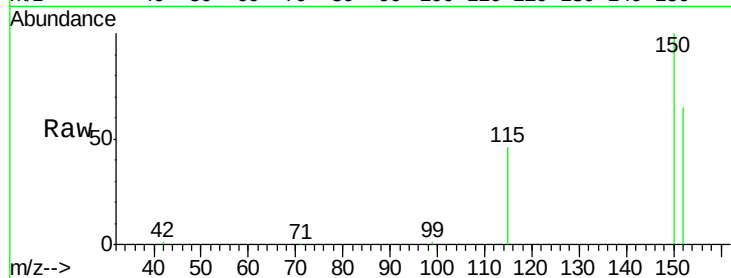




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.50 min Scan# 1004
 Delta R.T. 0.00 min
 Lab File: BE089834.D
 Acq: 25 Mar 2015 6:17

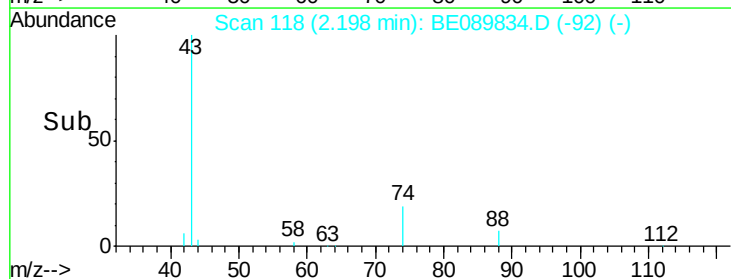
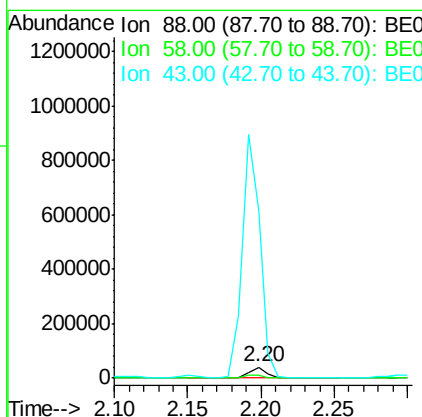
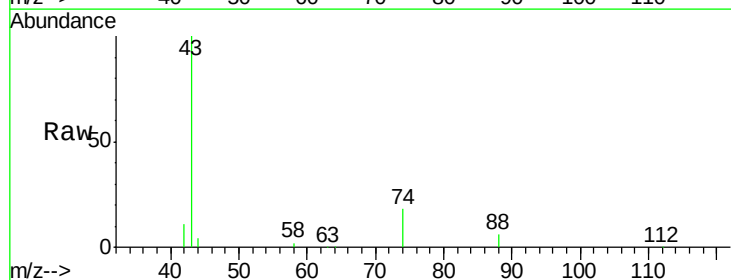
Instrument :
 BNA_E
 ClientSampleId :
 MW-24V

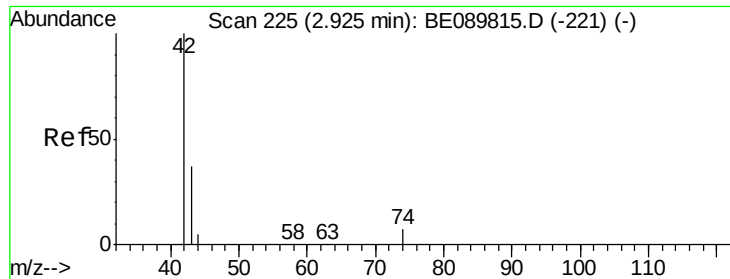
Tgt Ion:152 Resp: 208943
 Ion Ratio Lower Upper
 152 100
 150 153.9 125.5 188.3
 115 71.2 58.0 87.0



#2
 1,4-Dioxane
 Concen: 1.17 ng
 RT: 2.20 min Scan# 118
 Delta R.T. -0.32 min
 Lab File: BE089834.D
 Acq: 25 Mar 2015 6:17

Tgt Ion: 88 Resp: 31641
 Ion Ratio Lower Upper
 88 100
 58 29.3 48.6 72.8#
 43 2354.7 28.6 43.0#





#3

n-Nitrosodimethylamine

Concen: 0.03 ng

RT: 2.95 min Scan# 229

Delta R.T. -0.04 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

Instrument :

BNA_E

ClientSampleId :

MW-24V

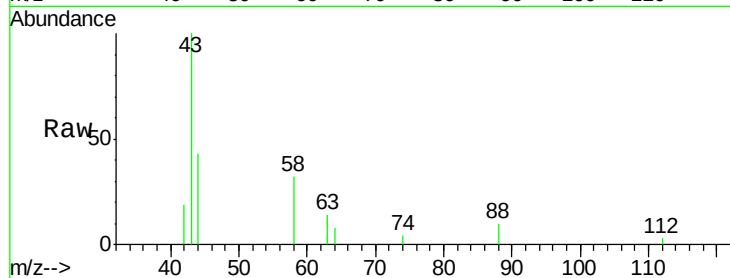
Tgt Ion: 42 Resp: 1115

Ion Ratio Lower Upper

42 100

74 11.2 68.7 103.1#

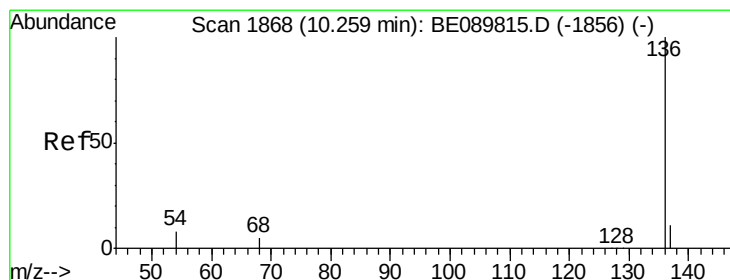
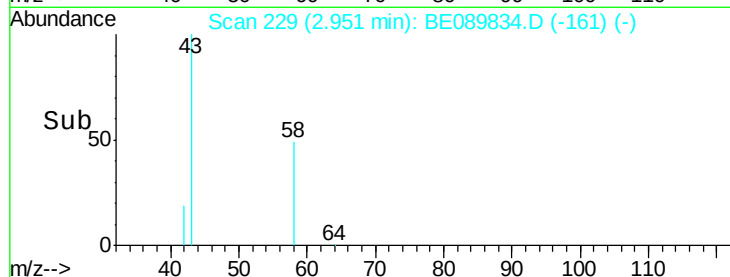
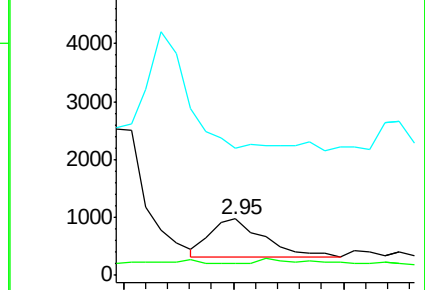
44 0.0 6.2 9.4#



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: BE089834.D

Acq: 25 Mar 2015 6:17

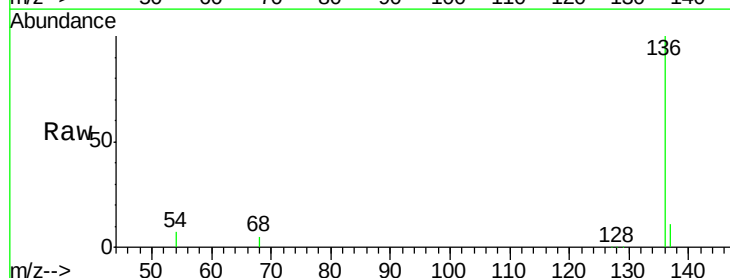
Tgt Ion: 136 Resp: 850500

Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

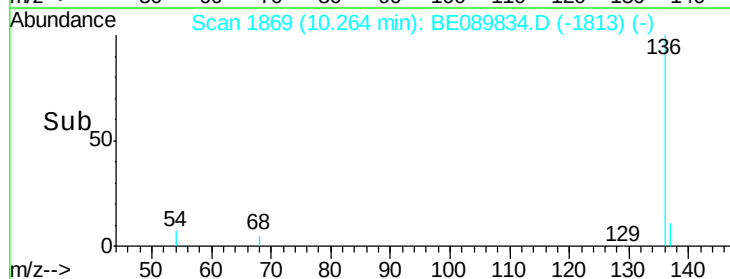
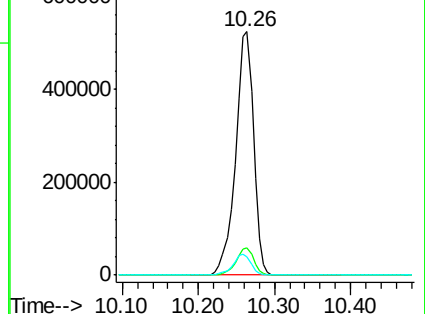
54 7.4 7.0 10.4

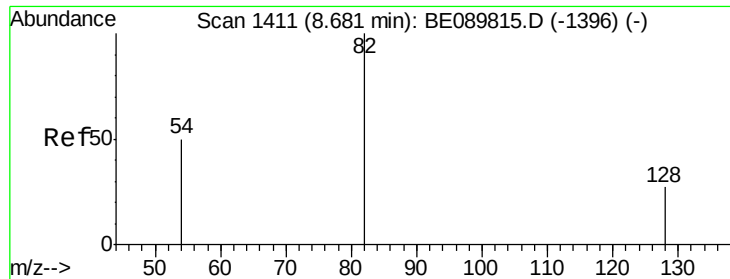


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 2.99 ng

RT: 8.68 min Scan# 1411

Delta R.T. -0.00 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

Instrument :

BNA_E

ClientSampleId :

MW-24V

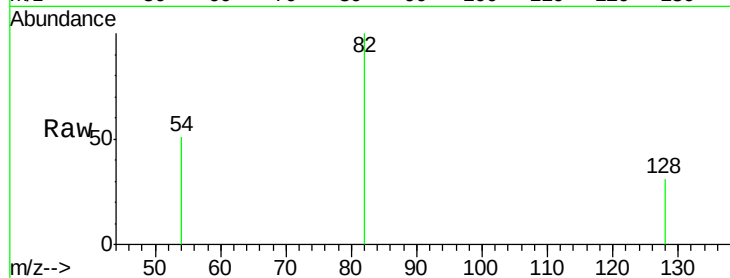
Tgt Ion: 82 Resp: 174784

Ion Ratio Lower Upper

82 100

128 30.7 24.6 37.0

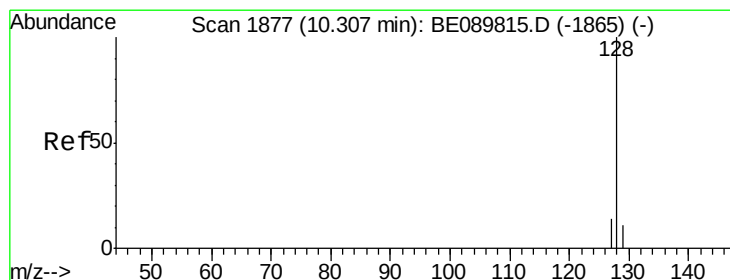
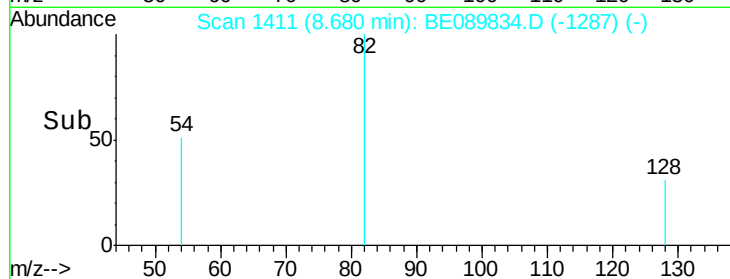
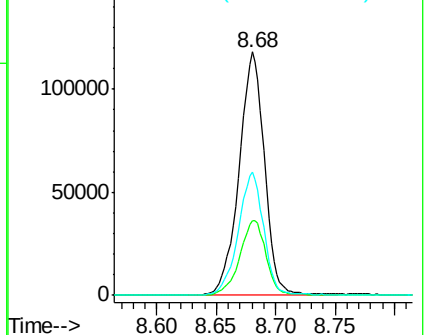
54 50.8 43.0 64.6



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



#6

Naphthalene

Concen: 0.01 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

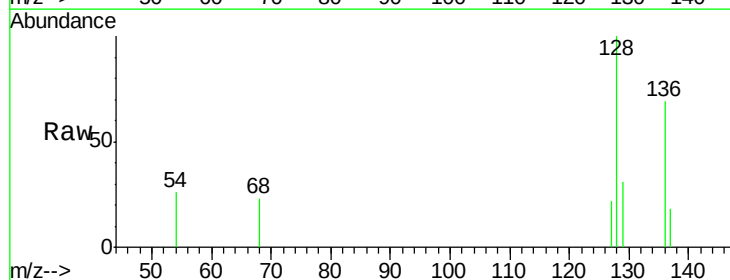
Tgt Ion: 128 Resp: 1994

Ion Ratio Lower Upper

128 100

129 31.1 10.0 15.0#

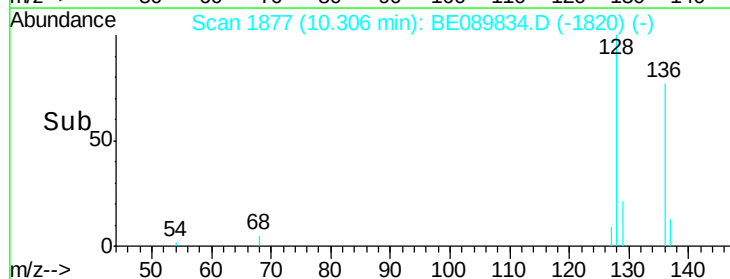
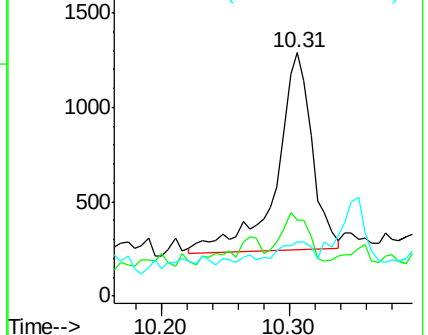
127 22.0 12.5 18.7#

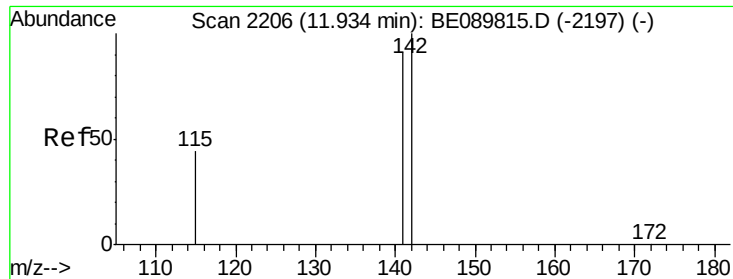


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.01 ng

RT: 11.94 min Scan# 2208

Delta R.T. 0.00 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

Instrument :

BNA_E

ClientSampleId :

MW-24V

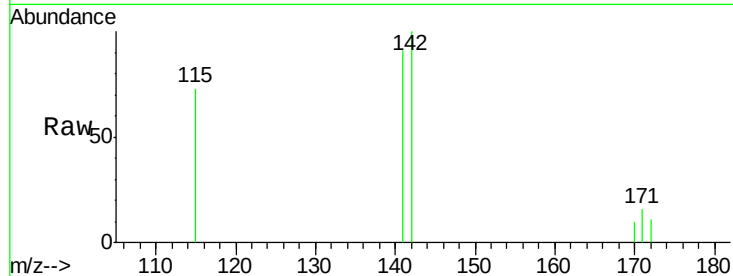
Tgt Ion:142 Resp: 1019

Ion Ratio Lower Upper

142 100

141 91.1 72.8 109.2

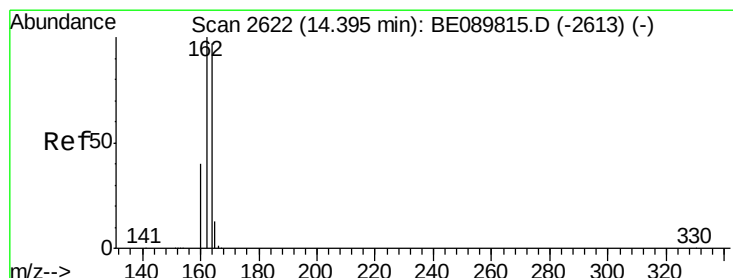
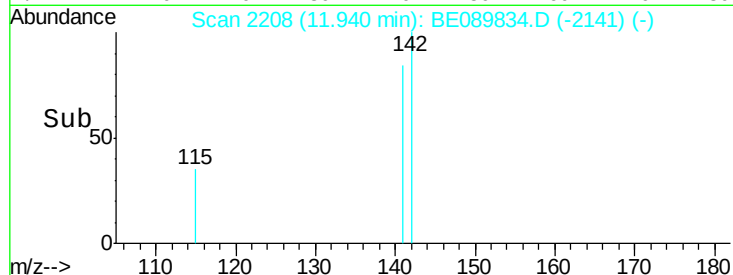
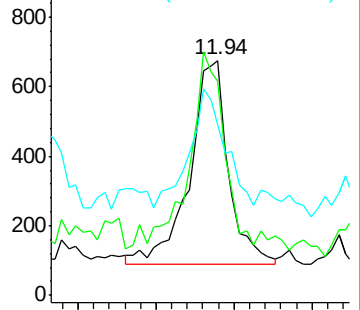
115 72.6 32.9 49.3#



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: BE089834.D

Acq: 25 Mar 2015 6:17

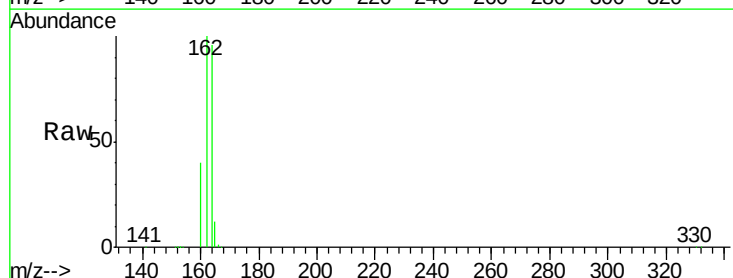
Tgt Ion:164 Resp: 387700

Ion Ratio Lower Upper

164 100

162 103.9 87.6 131.4

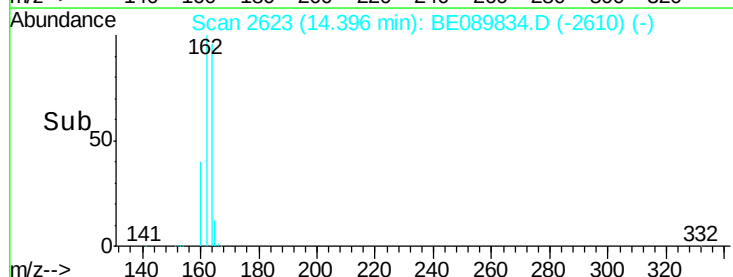
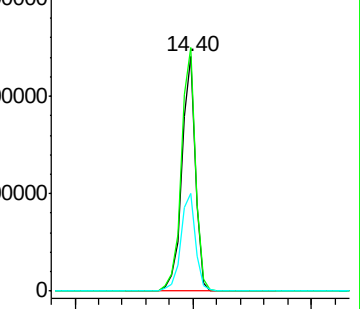
160 41.9 36.7 55.1

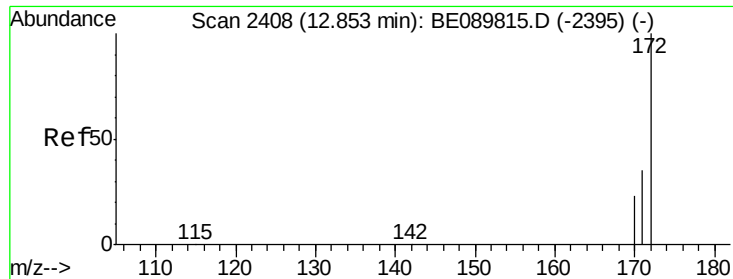


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

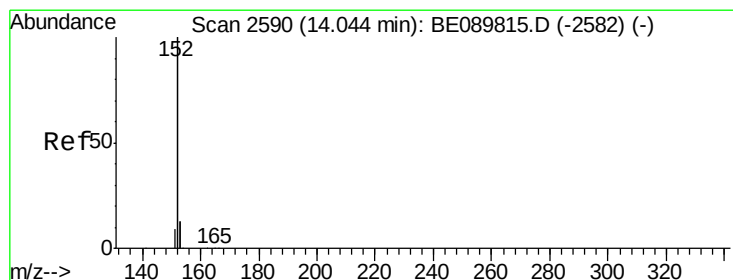
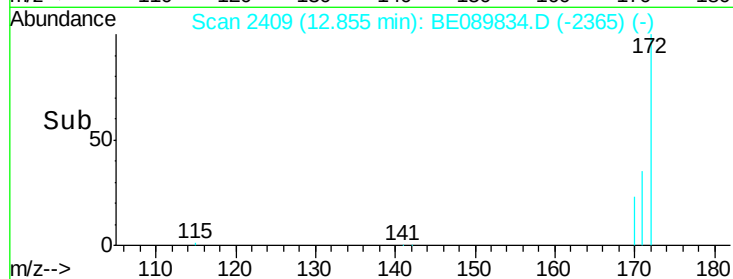
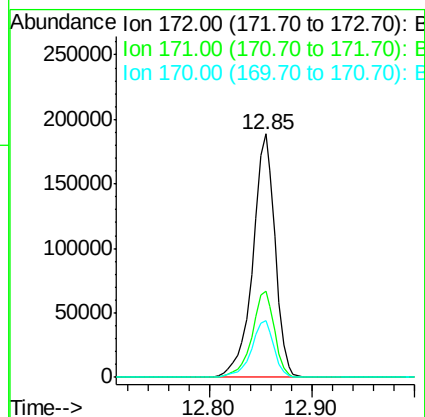
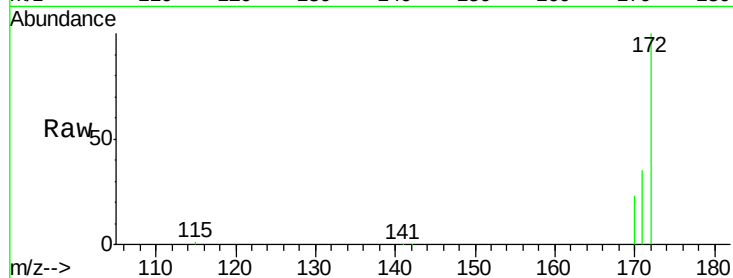




#9
2-Fluorobiphenyl
Concen: 3.13 ng
RT: 12.85 min Scan# 2409
Delta R.T. 0.00 min
Lab File: BE089834.D
Acq: 25 Mar 2015 6:17

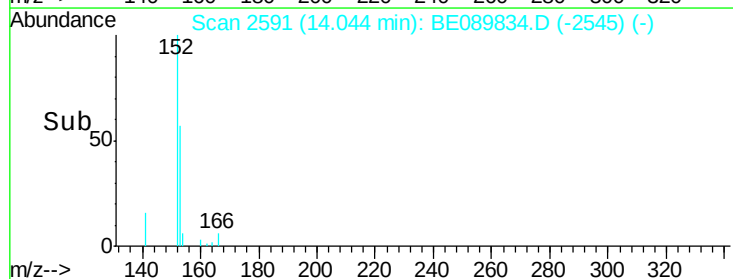
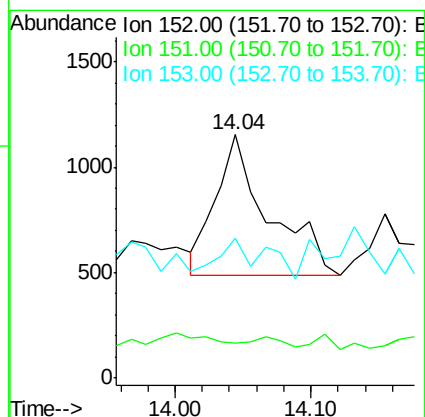
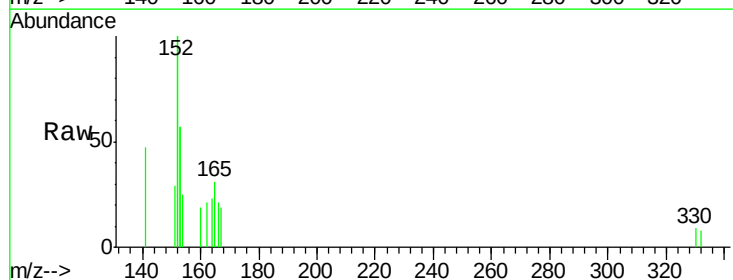
Instrument :
BNA_E
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MW-24V

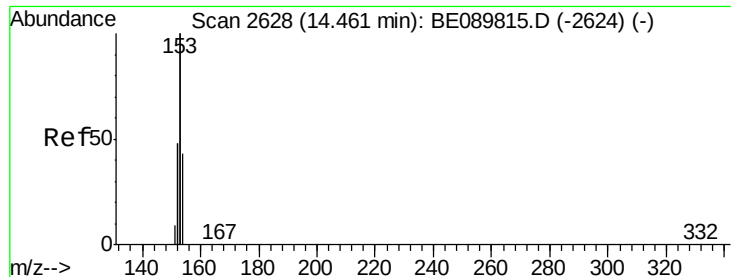
Tgt Ion:172 Resp: 284261
Ion Ratio Lower Upper
172 100
171 35.4 30.8 46.2
170 23.1 21.0 31.4



#10
Acenaphthylene
Concen: 0.00 ng
RT: 14.04 min Scan# 2591
Delta R.T. -0.00 min
Lab File: BE089834.D
Acq: 25 Mar 2015 6:17

Tgt Ion:152 Resp: 1816
Ion Ratio Lower Upper
152 100
151 0.0 3.9 5.9#
153 25.5 11.0 16.4#





#11

Acenaphthene

Concen: 0.01 ng

RT: 14.51 min Scan# 2633

Delta R.T. 0.04 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

Instrument :

BNA_E

ClientSampleId :

MW-24V

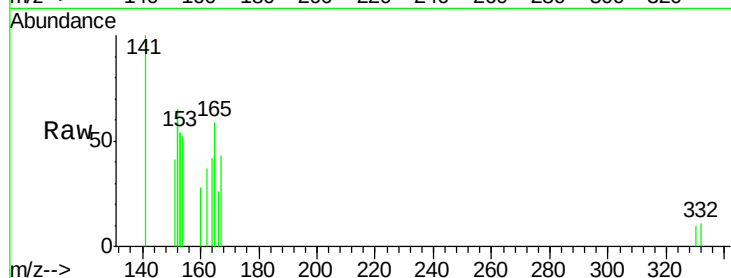
Tgt Ion:154 Resp: 602

Ion Ratio Lower Upper

154 100

153 0.0 401.5 602.3#

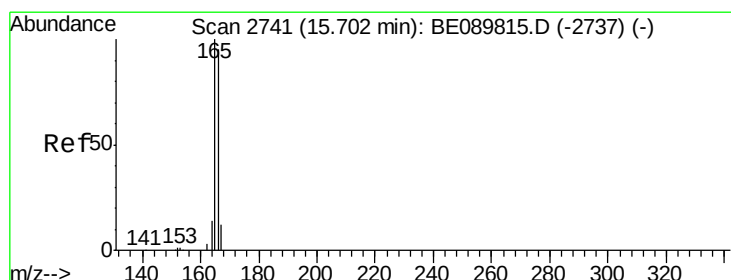
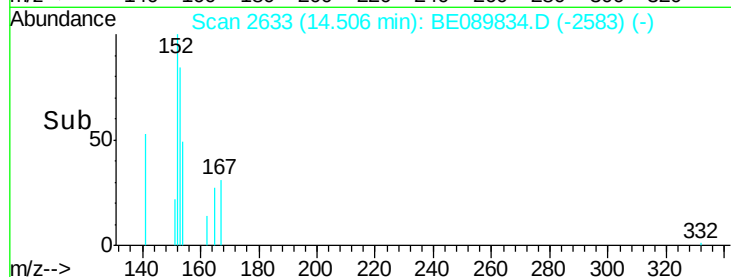
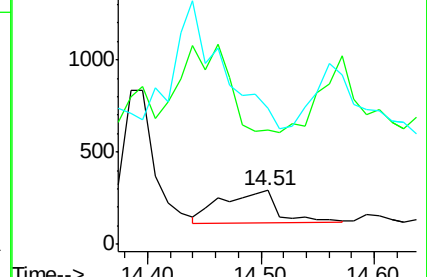
152 0.0 198.6 298.0#



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: BE089834.D

Acq: 25 Mar 2015 6:17

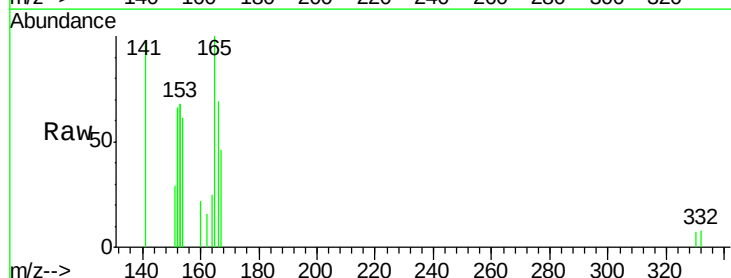
Tgt Ion:166 Resp: 922

Ion Ratio Lower Upper

166 100

165 148.5 85.1 127.7#

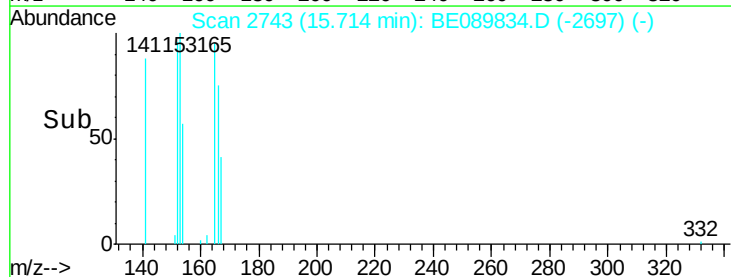
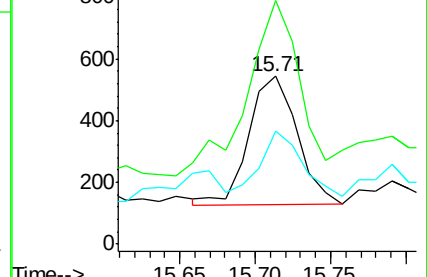
167 43.5 12.2 18.4#

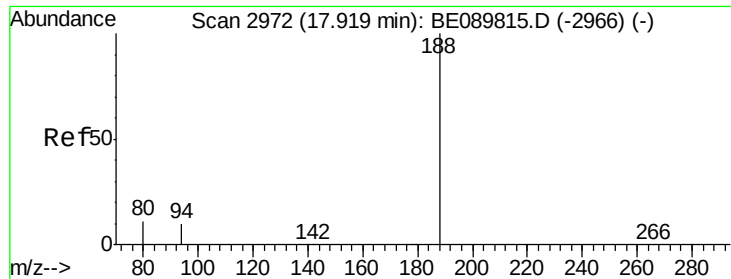


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE089834.D

Acq: 25 Mar 2015 6:17

Instrument :

BNA_E

ClientSampleId :

MW-24V

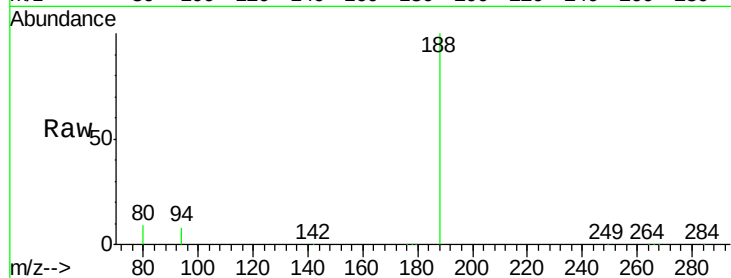
Tgt Ion:188 Resp: 683738

Ion Ratio Lower Upper

188 100

94 8.4 8.5 12.7#

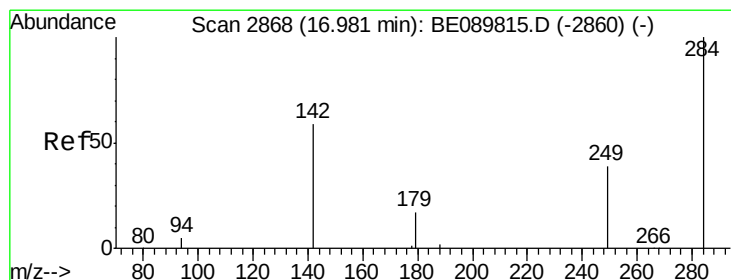
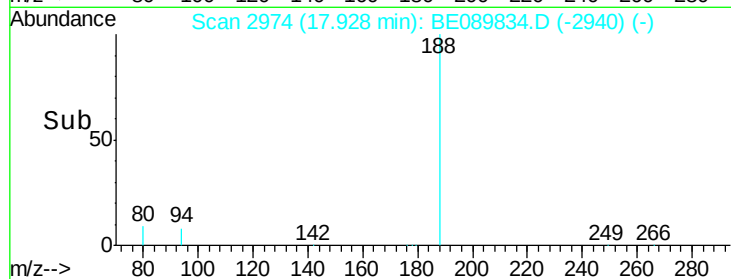
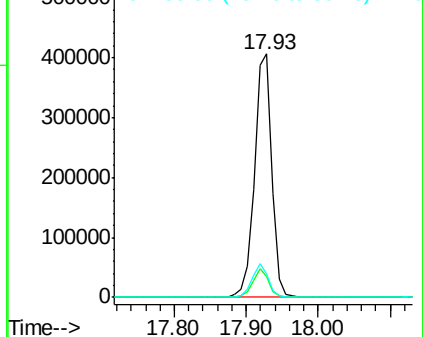
80 9.5 10.0 15.0#



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: 16.99 min Scan# 2870

Delta R.T. 0.01 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

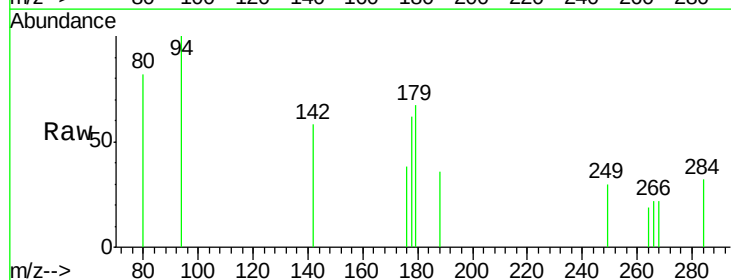
Tgt Ion:284 Resp: 36

Ion Ratio Lower Upper

284 100

142 611.1 53.3 79.9#

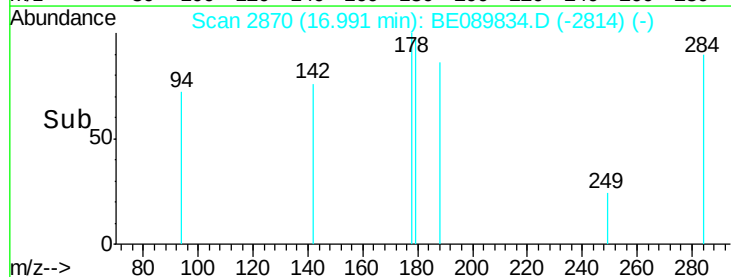
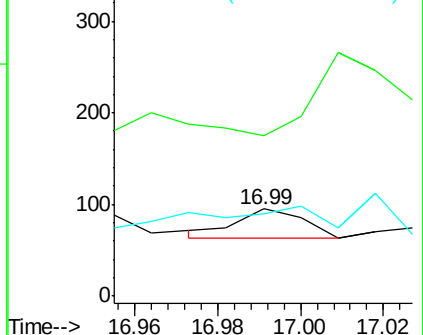
249 116.7 31.1 46.7#

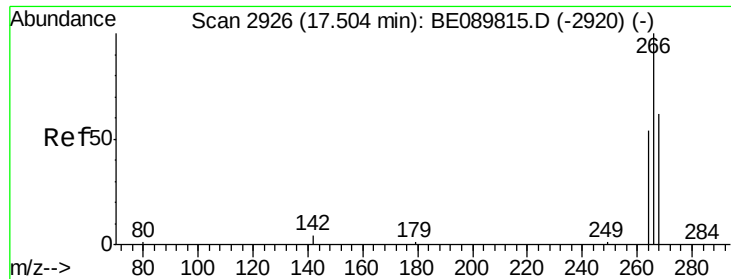


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

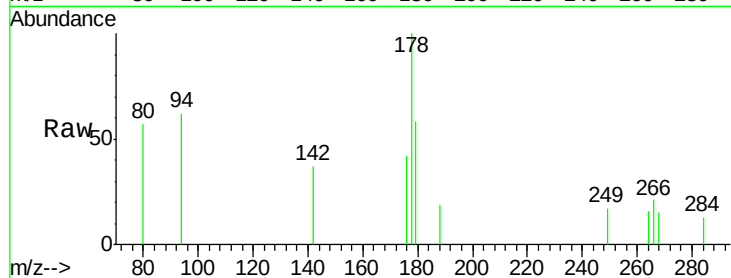




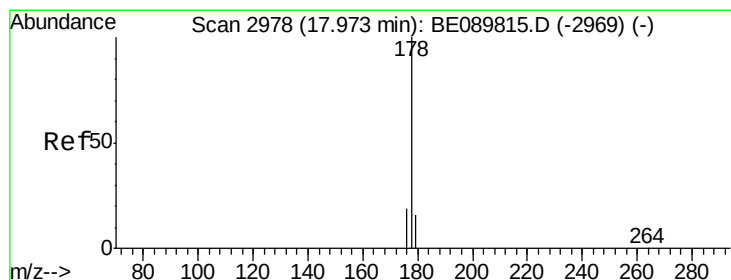
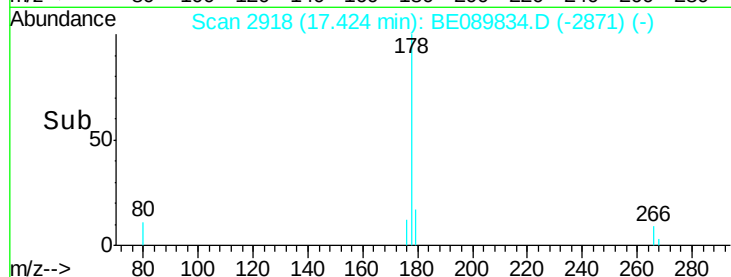
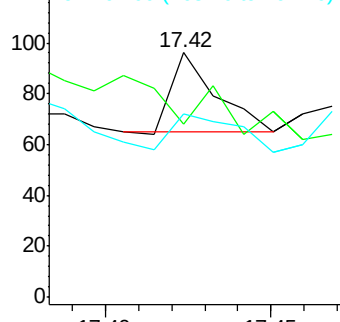
#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 17.42 min Scan# 2918
 Delta R.T. -0.08 min
 Lab File: BE089834.D
 Acq: 25 Mar 2015 6:17

Instrument :
 BNA_E
 ClientSampleId :
 MW-24V

Tgt Ion: 266 Resp: 29
 Ion Ratio Lower Upper
 266 100
 268 70.8 51.6 77.4
 264 75.0 50.2 75.2

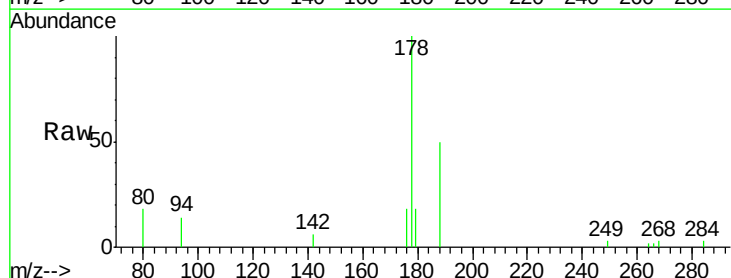


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

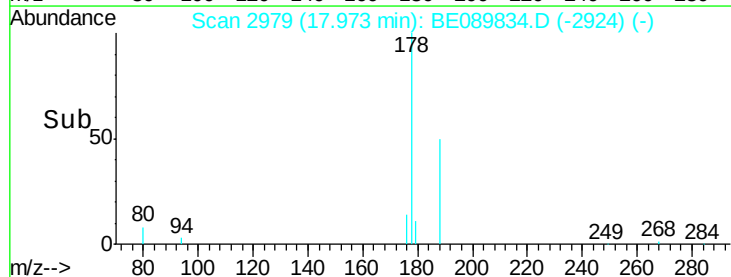
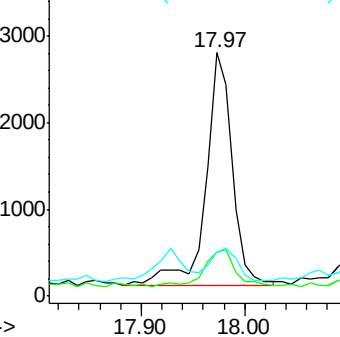


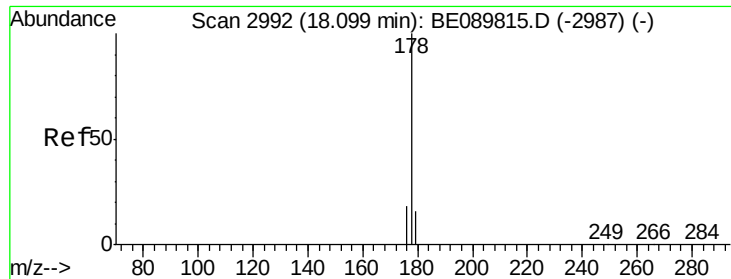
#16
 Phenanthrene
 Concen: 0.03 ng
 RT: 17.97 min Scan# 2979
 Delta R.T. -0.00 min
 Lab File: BE089834.D
 Acq: 25 Mar 2015 6:17

Tgt Ion: 178 Resp: 4783
 Ion Ratio Lower Upper
 178 100
 176 20.3 15.4 23.0
 179 13.0 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: 0.04 ng

RT: 17.97 min Scan# 2979

Delta R.T. -0.13 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

Instrument :

BNA_E

ClientSampleId :

MW-24V

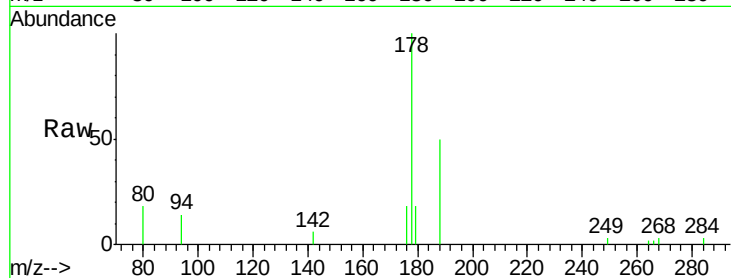
Tgt Ion:178 Resp: 4783

Ion Ratio Lower Upper

178 100

176 20.3 14.6 21.8

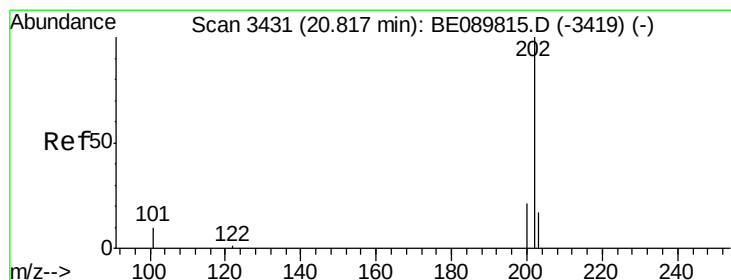
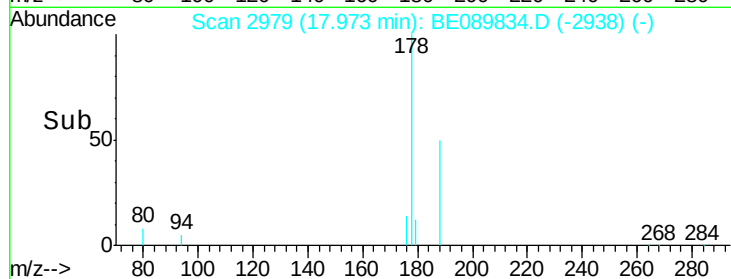
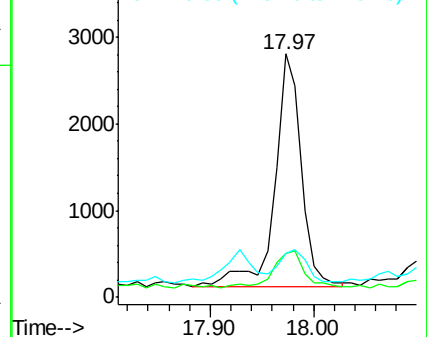
179 13.0 12.1 18.1



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: 0.06 ng

RT: 20.83 min Scan# 3434

Delta R.T. 0.01 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

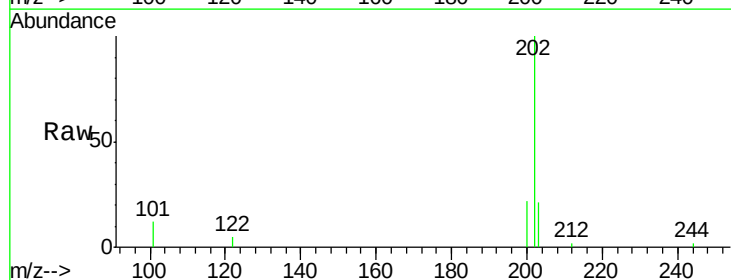
Tgt Ion:202 Resp: 8644

Ion Ratio Lower Upper

202 100

101 11.7 8.2 12.2

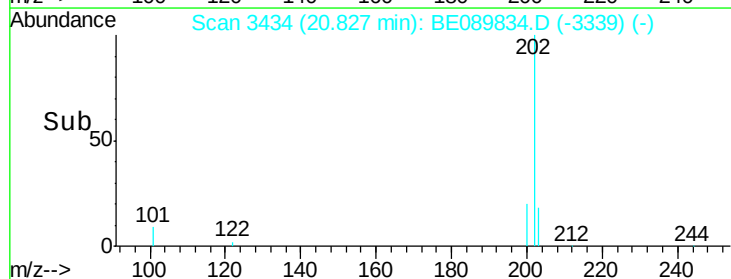
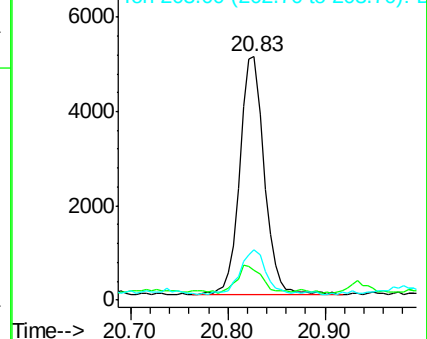
203 19.8 14.2 21.4

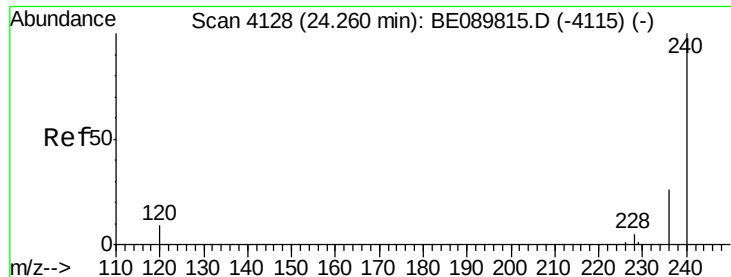


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE089834.D

Acq: 25 Mar 2015 6:17

Instrument :

BNA_E

ClientSampleId :

MW-24V

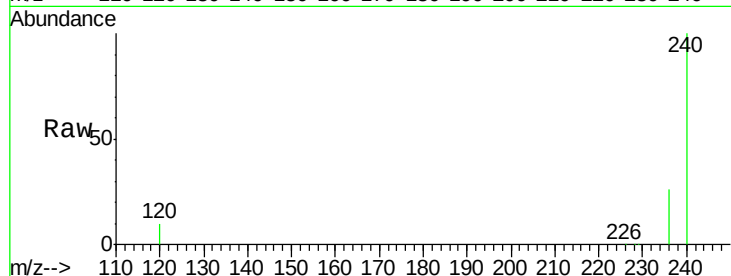
Tgt Ion:240 Resp: 658072

Ion Ratio Lower Upper

240 100

120 10.4 7.5 11.3

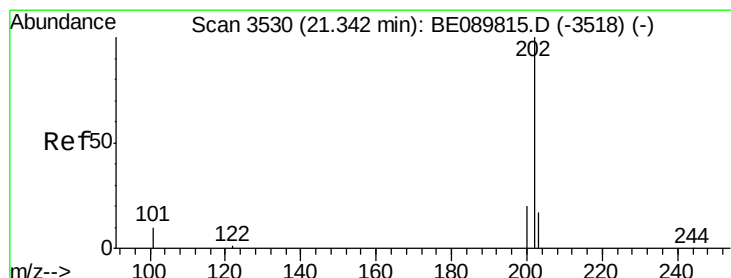
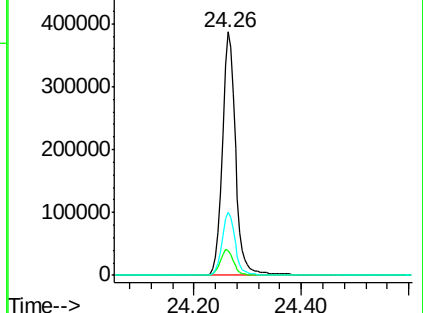
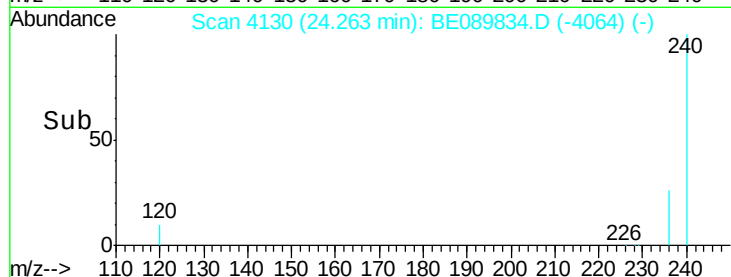
236 26.1 20.5 30.7



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: 0.05 ng

RT: 21.35 min Scan# 3532

Delta R.T. -0.00 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

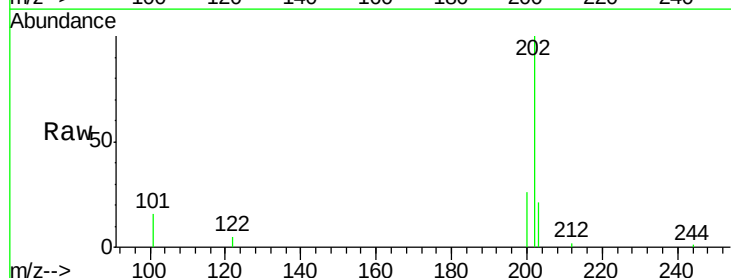
Tgt Ion:202 Resp: 8406

Ion Ratio Lower Upper

202 100

200 19.5 15.9 23.9

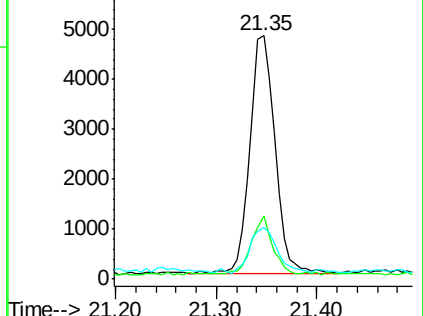
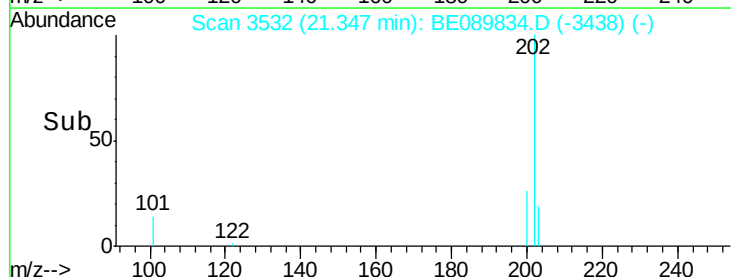
203 20.3 13.6 20.4

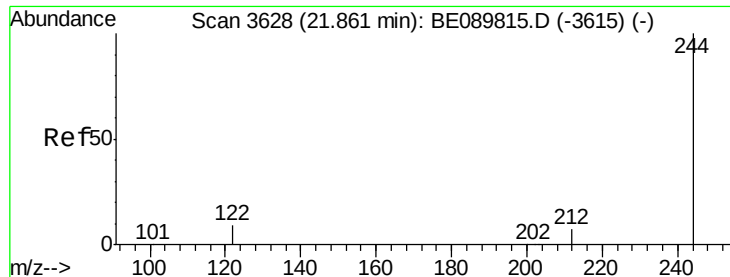


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 3.39 ng

RT: 21.87 min Scan# 3630

Delta R.T. 0.01 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

Instrument :

BNA_E

ClientSampleId :

MW-24V

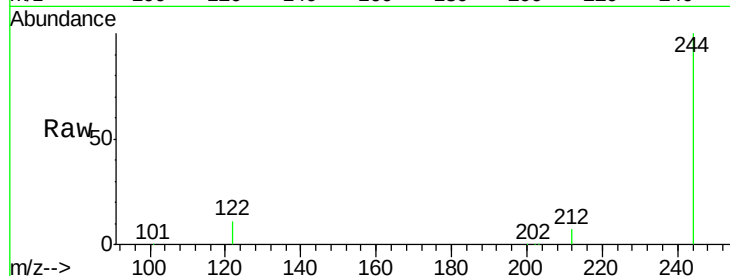
Tgt Ion:244 Resp: 329434

Ion Ratio Lower Upper

244 100

212 7.2 7.3 10.9#

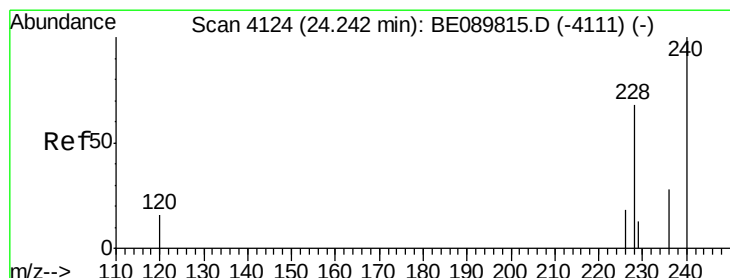
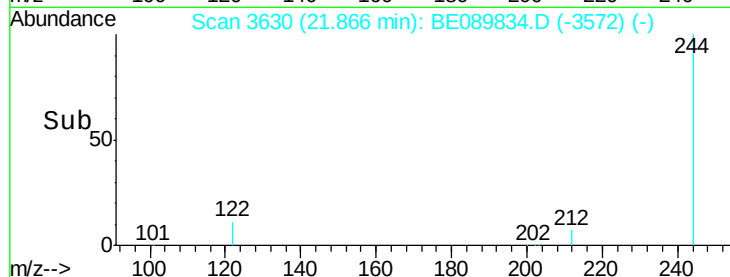
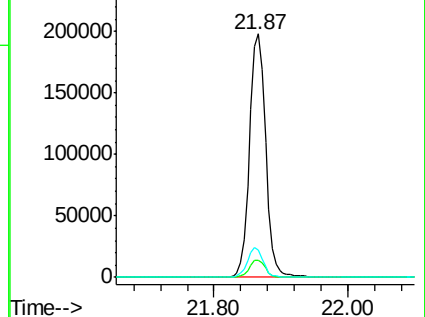
122 11.2 10.5 15.7



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: 0.03 ng

RT: 24.25 min Scan# 4128

Delta R.T. 0.01 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

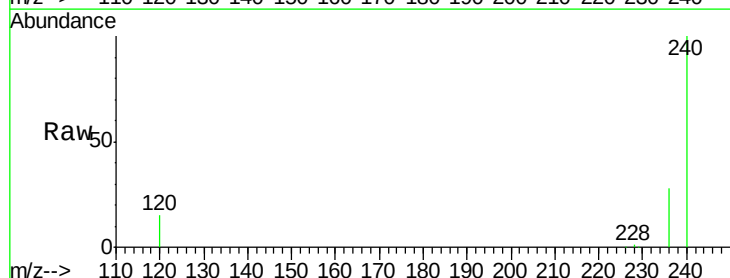
Tgt Ion:228 Resp: 3910

Ion Ratio Lower Upper

228 100

226 24.0 19.8 29.8

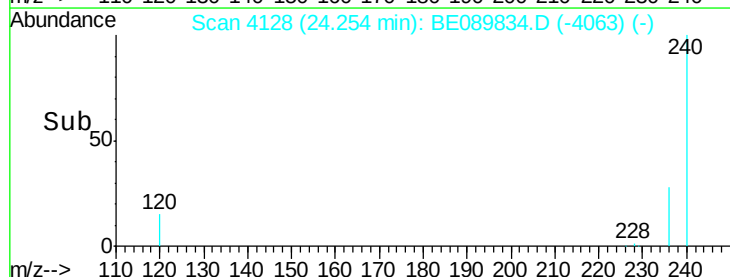
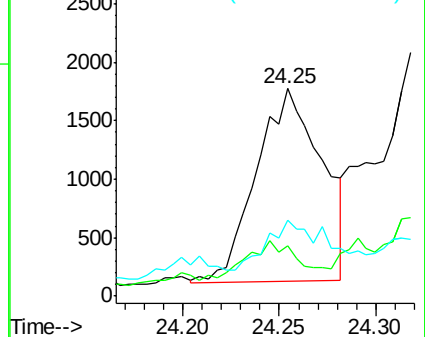
229 36.8 16.3 24.5#

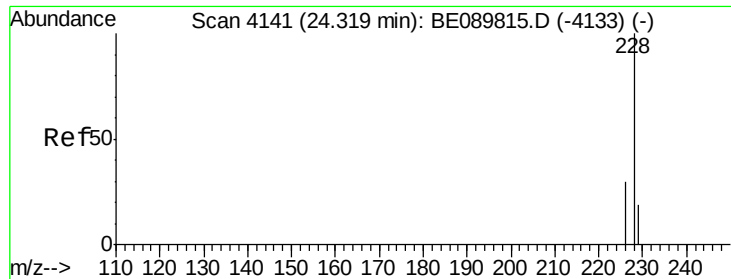


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.03 ng

RT: 24.32 min Scan# 4142

Delta R.T. 0.00 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

Instrument :

BNA_E

ClientSampleId :

MW-24V

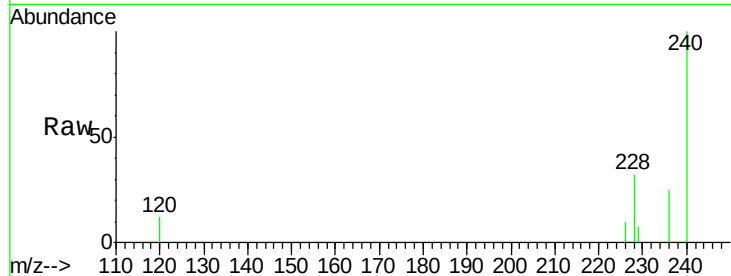
Tgt Ion: 228 Resp: 3780

Ion Ratio Lower Upper

228 100

226 32.2 23.0 34.4

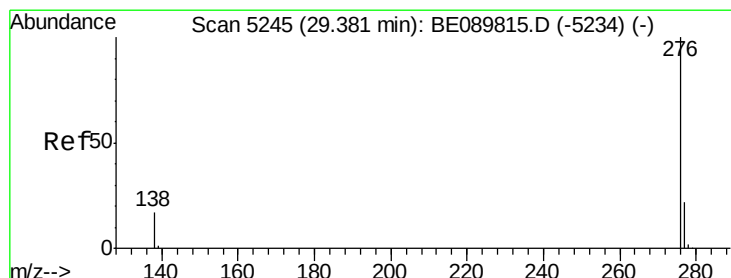
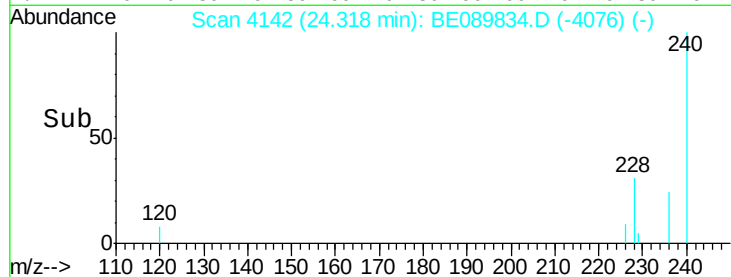
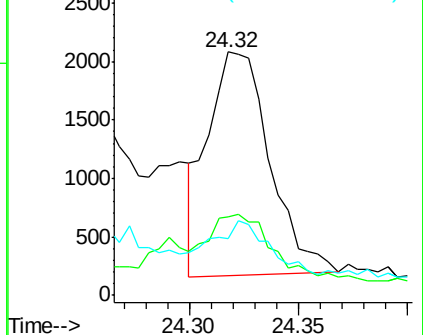
229 23.2 15.8 23.6



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: 0.45 ng

RT: 29.39 min Scan# 5248

Delta R.T. 0.00 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

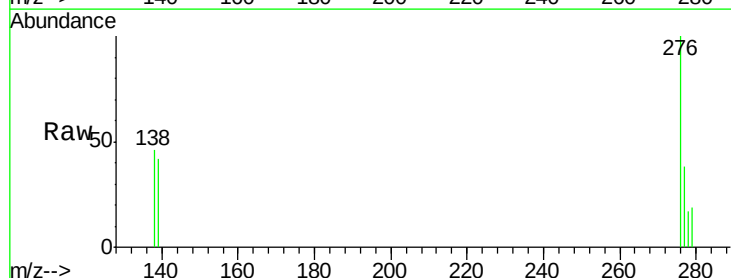
Tgt Ion: 276 Resp: 3510

Ion Ratio Lower Upper

276 100

138 10.4 4.3 6.5#

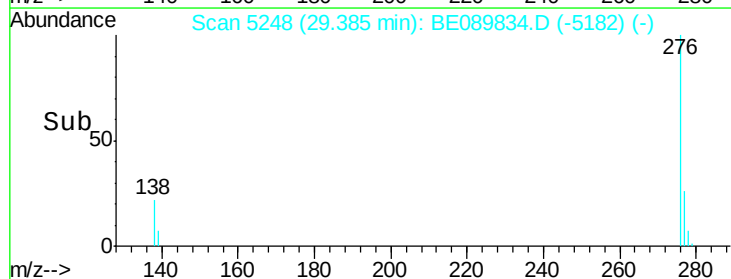
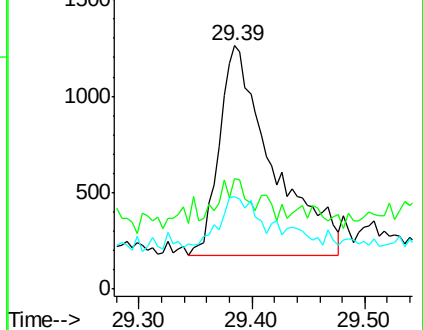
277 15.4 9.0 13.4#

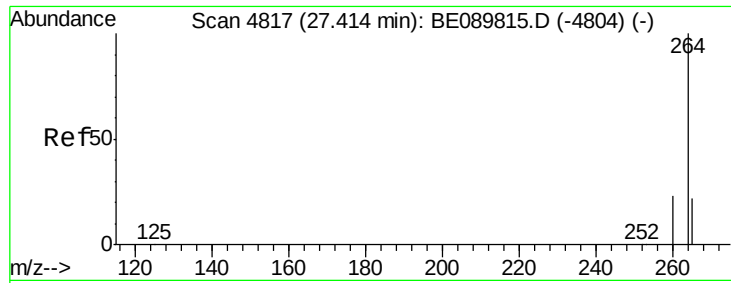


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

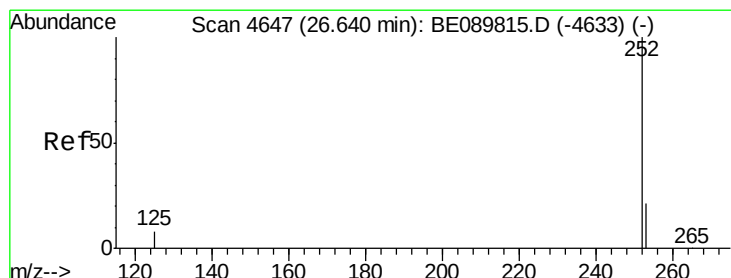
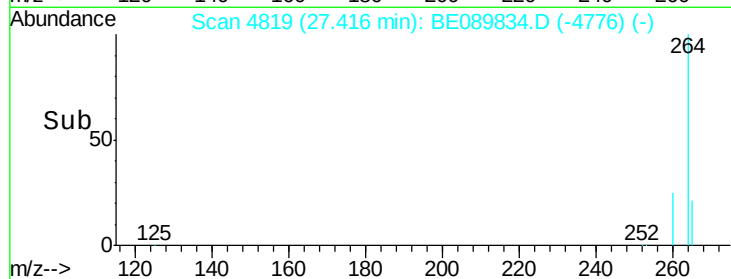
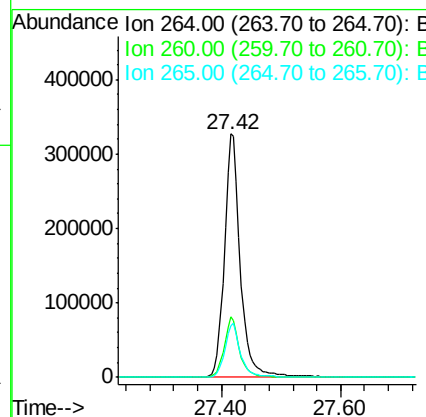
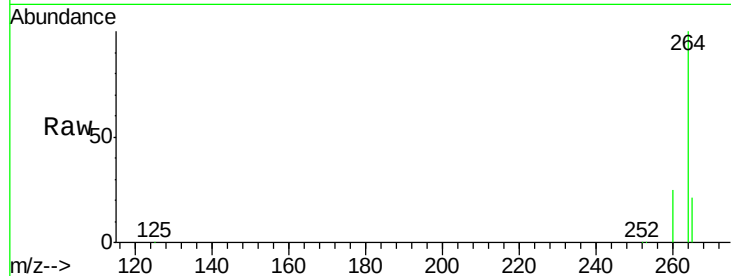




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 27.42 min Scan# 4819
 Delta R.T. 0.00 min
 Lab File: BE089834.D
 Acq: 25 Mar 2015 6:17

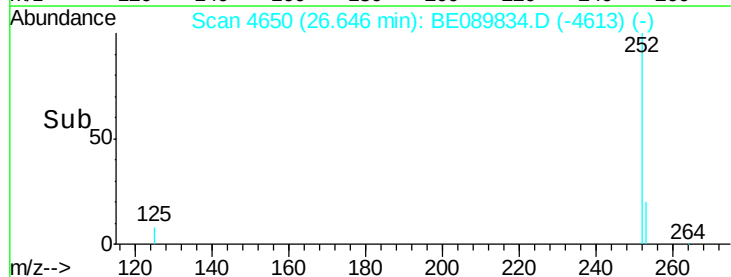
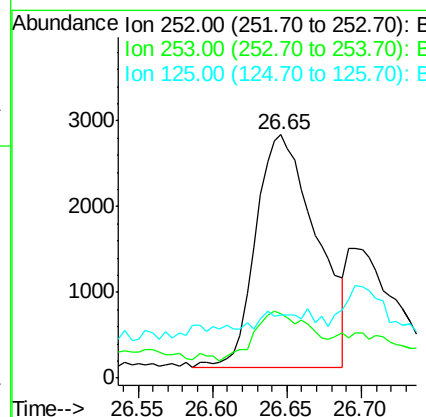
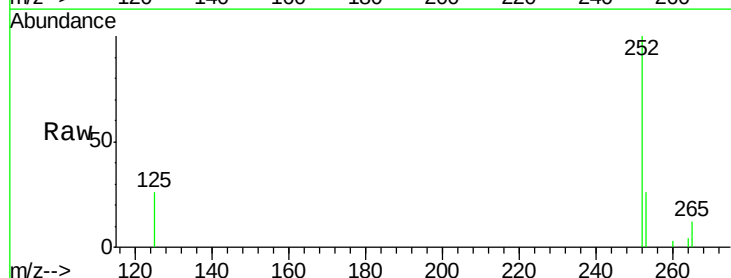
Instrument :
 BNA_E
 ClientSampleId :
 MW-24V

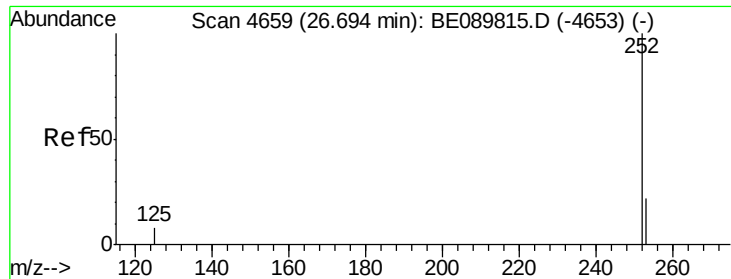
Tgt Ion: 264 Resp: 611242
 Ion Ratio Lower Upper
 264 100
 260 24.7 18.2 27.2
 265 21.2 17.3 25.9



#26
 Benzo(b)fluoranthene
 Concen: 0.37 ng
 RT: 26.65 min Scan# 4650
 Delta R.T. 0.01 min
 Lab File: BE089834.D
 Acq: 25 Mar 2015 6:17

Tgt Ion: 252 Resp: 7653
 Ion Ratio Lower Upper
 252 100
 253 26.3 17.8 26.6
 125 26.0 8.7 13.1#

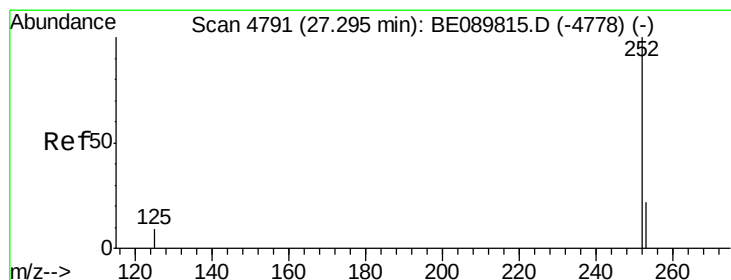
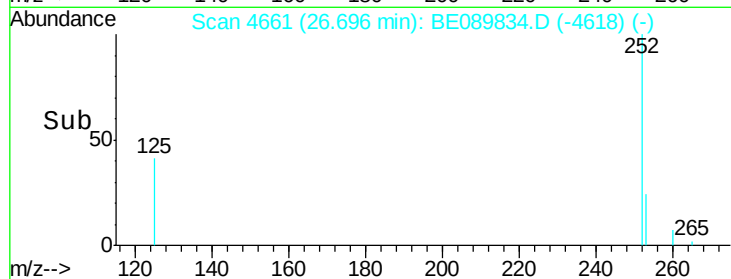
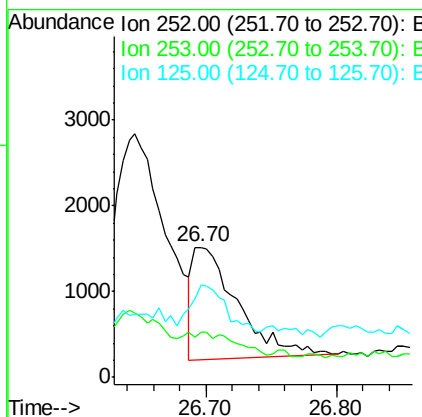
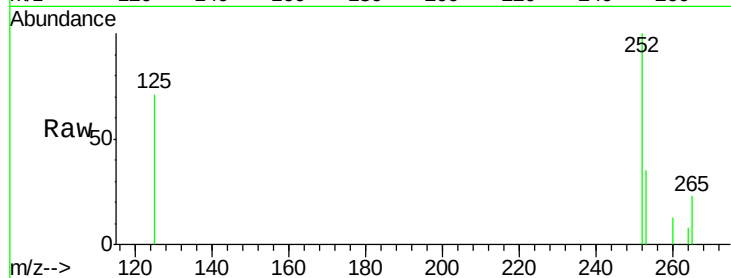




#27
Benzo(k)fluoranthene
Concen: 0.02 ng
RT: 26.70 min Scan# 4661
Delta R.T. -0.00 min
Lab File: BE089834.D
Acq: 25 Mar 2015 6:17

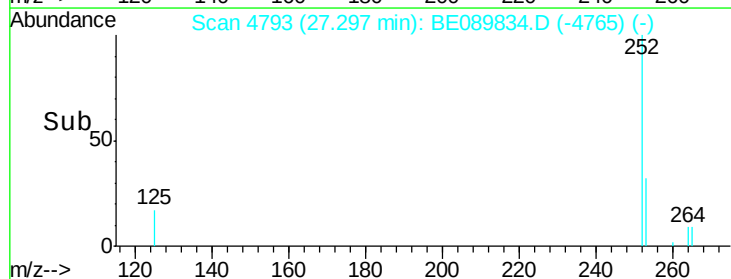
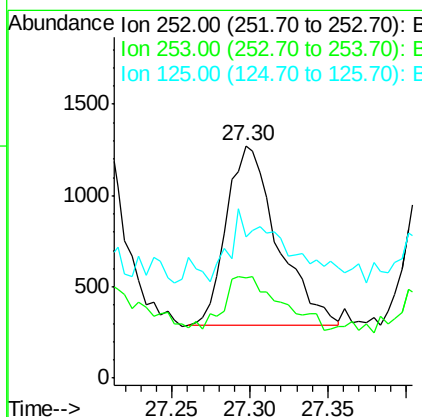
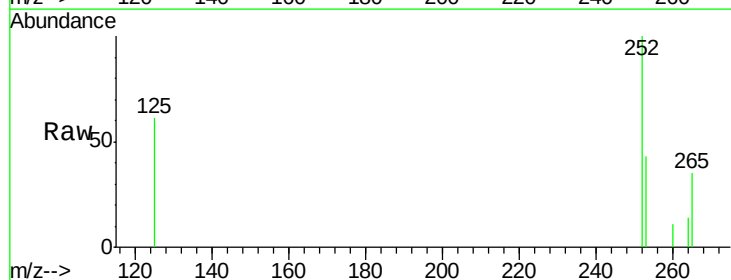
Instrument :
BNA_E
ClientSampleId :
MW-24V

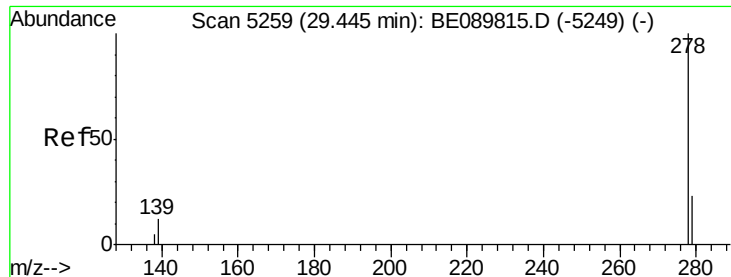
Tgt Ion: 252 Resp: 3073
Ion Ratio Lower Upper
252 100
253 35.2 18.6 28.0#
125 70.9 10.8 16.2#



#28
Benzo(a)pyrene
Concen: 0.31 ng
RT: 27.30 min Scan# 4793
Delta R.T. -0.00 min
Lab File: BE089834.D
Acq: 25 Mar 2015 6:17

Tgt Ion: 252 Resp: 2261
Ion Ratio Lower Upper
252 100
253 43.4 21.0 31.4#
125 61.0 13.3 19.9#





#29

Dibenzo(a,h)anthracene

Concen: 0.27 ng

RT: 29.45 min Scan# 5262

Delta R.T. 0.01 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

Instrument :

BNA_E

ClientSampleId :

MW-24V

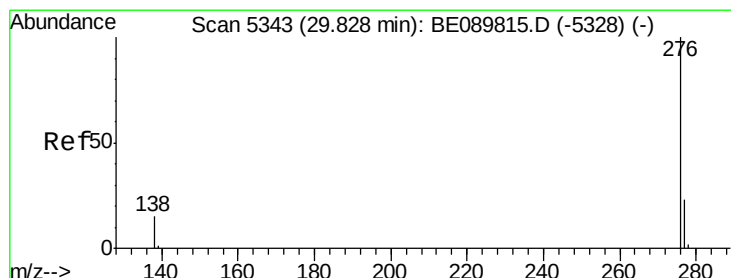
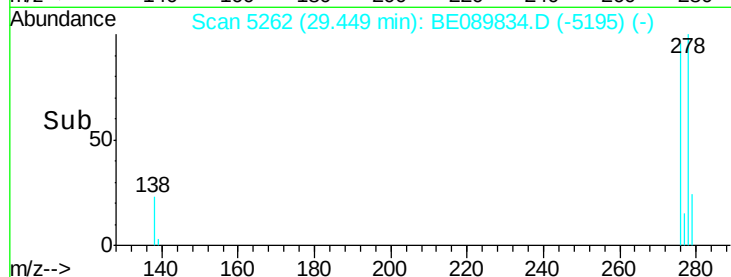
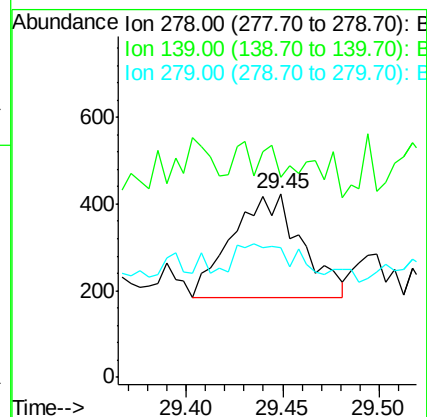
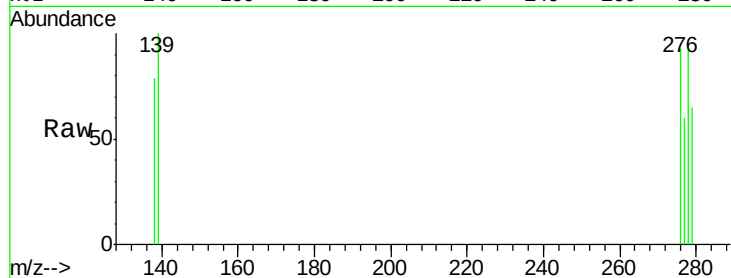
Tgt Ion: 278 Resp: 597

Ion Ratio Lower Upper

278 100

139 109.0 20.0 30.0#

279 70.8 28.9 43.3#



#30

Benzo(g,h,i)perylene

Concen: 0.29 ng

RT: 29.83 min Scan# 5346

Delta R.T. 0.01 min

Lab File: BE089834.D

Acq: 25 Mar 2015 6:17

Tgt Ion: 276 Resp: 4618

Ion Ratio Lower Upper

276 100

277 31.1 19.2 28.8#

138 36.5 22.9 34.3#

