

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089830.D
 Acq On : 25 Mar 2015 3:36
 Operator : TP/JJ
 Sample : G1575-07
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RW-12V

Quant Time: Mar 25 03:22:33 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	203516	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	818902	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	387737	5.00	ng	0.01
13) Phenanthrene-d10	17.92	188	669660	5.00	ng	0.00
19) Chrysene-d12	24.26	240	654269	5.00	ng	0.00
25) Perylene-d12	27.42	264	610363	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	451431	7.58	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	733477	8.08	ng	0.00
21) Terphenyl-d14	21.87	244	830170	8.60	ng	0.00

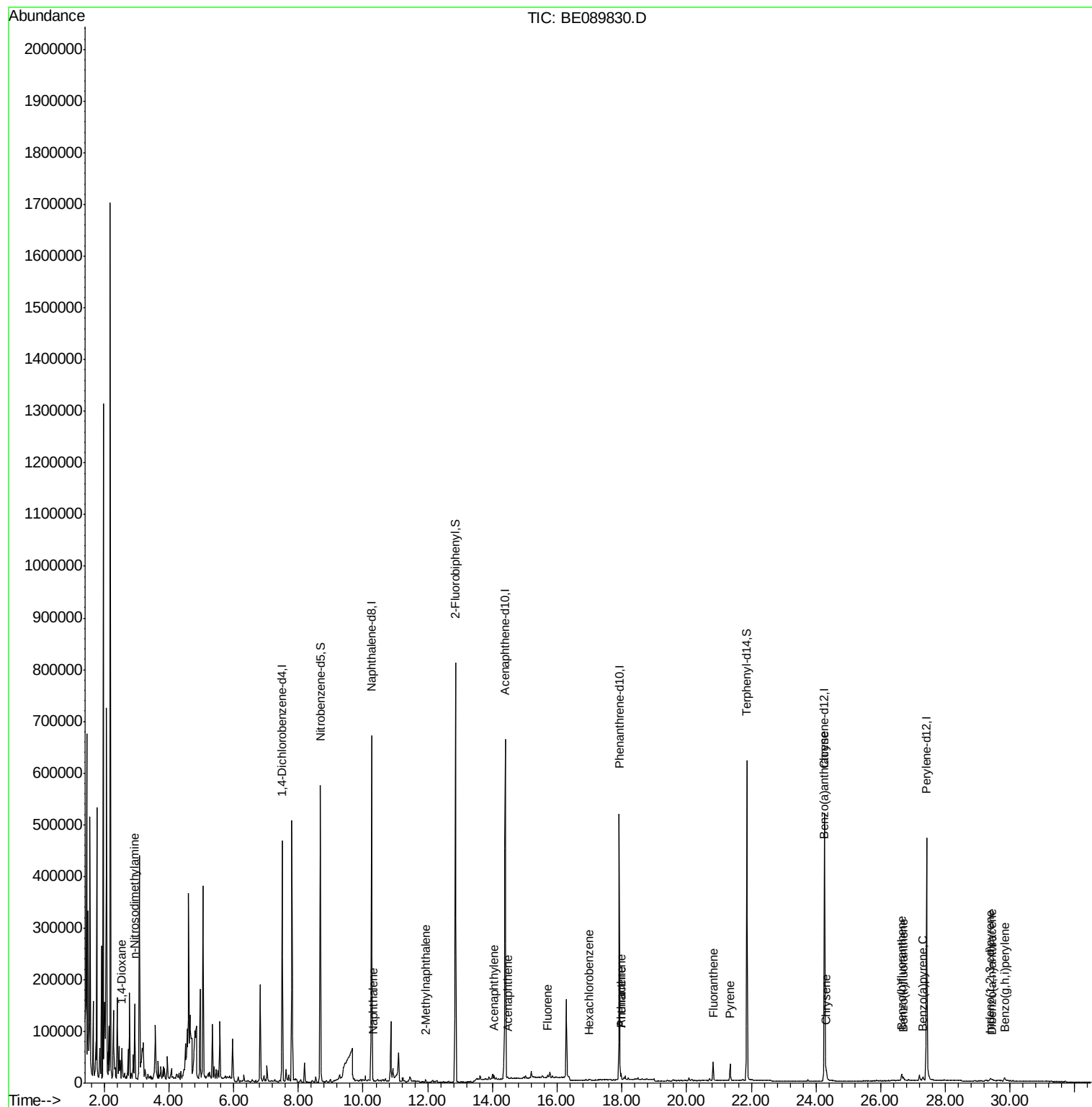
Target Compounds						Qvalue
2) 1,4-Dioxane	2.55	88	7254	0.27	ng	# 1
3) n-Nitrosodimethylamine	2.94	42	12954	0.33	ng	# 12
6) Naphthalene	10.31	128	5539	0.03	ng	# 78
7) 2-Methylnaphthalene	11.93	142	3044	0.03	ng	# 69
10) Acenaphthylene	14.04	152	11197	0.02	ng	# 78
11) Acenaphthene	14.46	154	1046	0.01	ng	# 72
12) Fluorene	15.71	166	1417	0.01	ng	# 80
14) Hexachlorobenzene	16.98	284	416	0.02	ng	# 34
15) Pentachlorophenol	17.50	266	1080	Below Cal		92
16) Phenanthrene	17.97	178	15949	0.11	ng	100
17) Anthracene	17.97	178	15949	0.12	ng	98
18) Fluoranthene	20.83	202	41145	0.31	ng	97
20) Pyrene	21.35	202	35608	0.21	ng	# 95
22) Benzo(a)anthracene	24.25	228	15665	0.13	ng	# 87
23) Chrysene	24.32	228	24368	0.18	ng	# 91
24) Indeno(1,2,3-cd)pyrene	29.39	276	11631	0.50	ng	# 72
26) Benzo(b)fluoranthene	26.64	252	25830	0.50	ng	# 79
27) Benzo(k)fluoranthene	26.70	252	12531	0.10	ng	# 59
28) Benzo(a)pyrene	27.30	252	13026	0.40	ng	# 68
29) Dibenzo(a,h)anthracene	29.44	278	1963	0.43	ng	# 12
30) Benzo(g,h,i)perylene	29.84	276	15177	0.37	ng	# 89

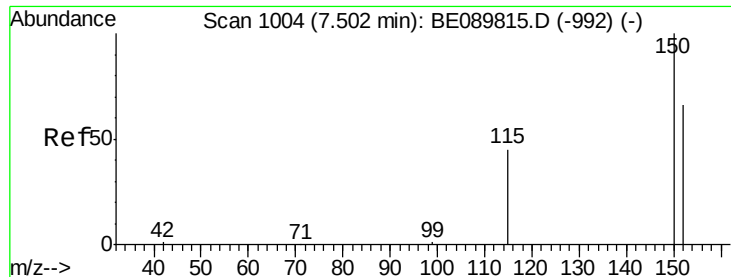
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089830.D

Acq: 25 Mar 2015 3:36

Instrument :

BNA_E

ClientSampled :

RW-12V

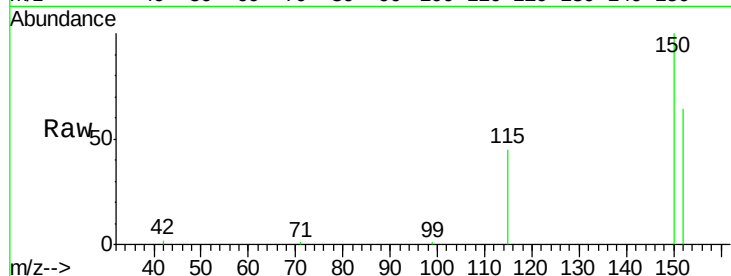
Tgt Ion:152 Resp: 203516

Ion Ratio Lower Upper

152 100

150 157.4 125.5 188.3

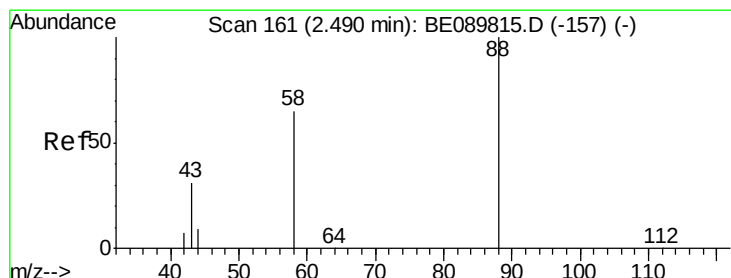
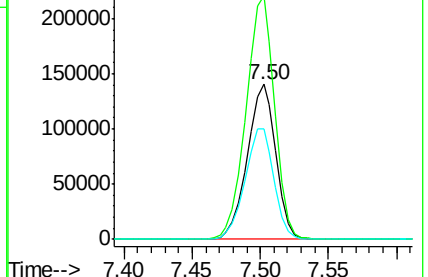
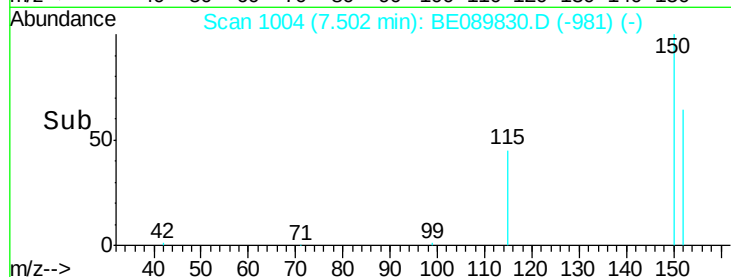
115 71.3 58.0 87.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.27 ng

RT: 2.55 min Scan# 169

Delta R.T. 0.02 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

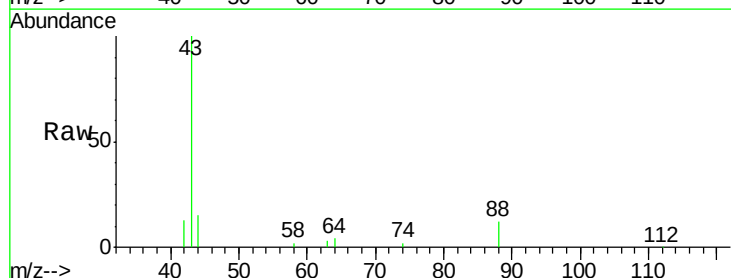
Tgt Ion: 88 Resp: 7254

Ion Ratio Lower Upper

88 100

58 18.0 48.6 72.8#

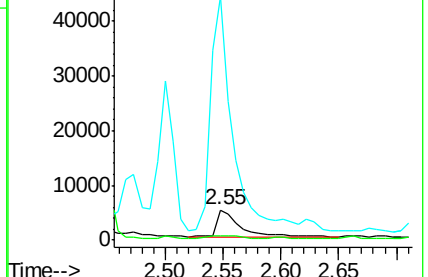
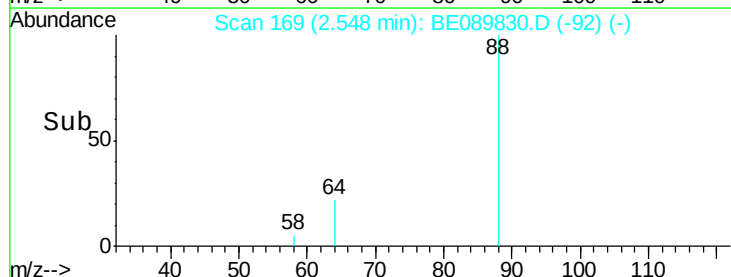
43 780.5 28.6 43.0#

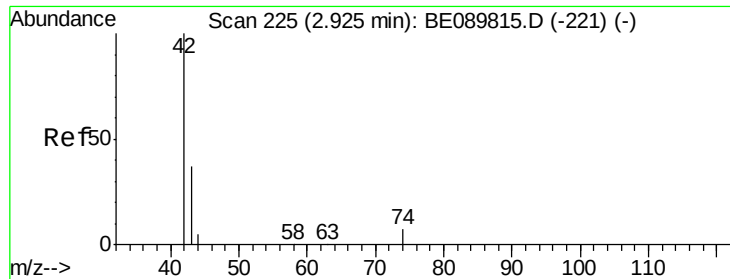


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.33 ng

RT: 2.94 min Scan# 227

Delta R.T. -0.05 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

Instrument :

BNA_E

ClientSampleId :

RW-12V

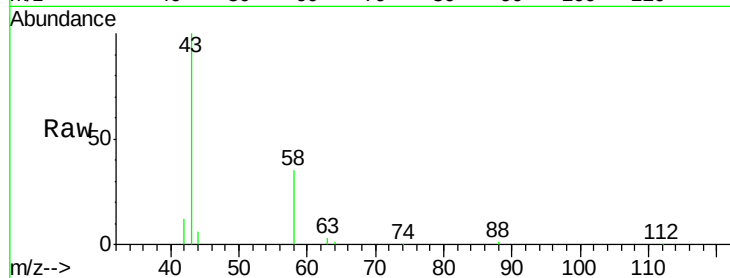
Tgt Ion: 42 Resp: 12954

Ion Ratio Lower Upper

42 100

74 0.0 68.7 103.1#

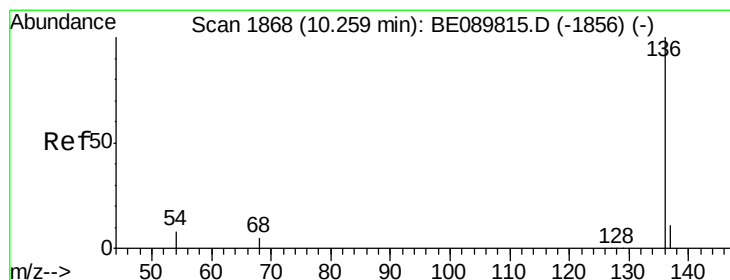
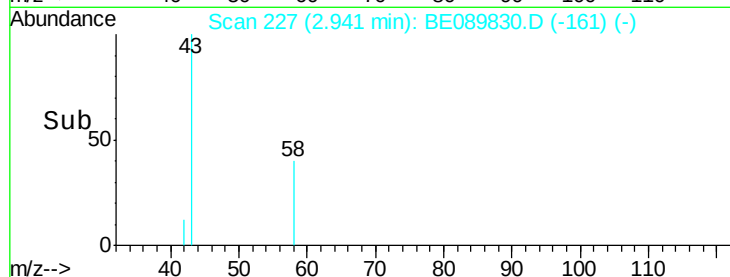
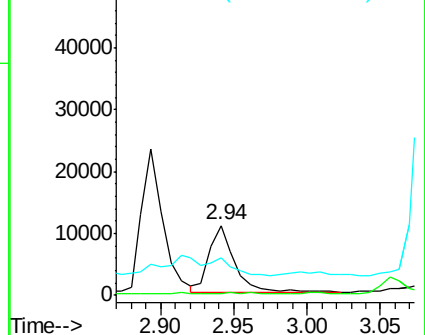
44 0.0 6.2 9.4#



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: BE089830.D

Acq: 25 Mar 2015 3:36

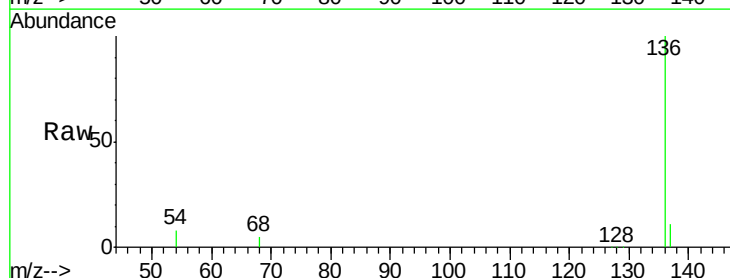
Tgt Ion: 136 Resp: 818902

Ion Ratio Lower Upper

136 100

137 11.3 8.8 13.2

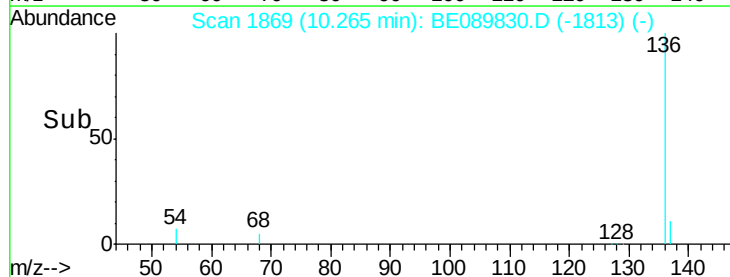
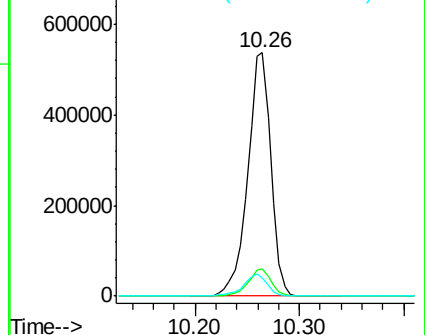
54 7.6 7.0 10.4

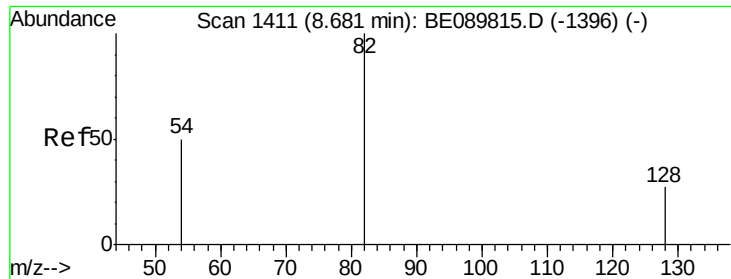


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 7.58 ng

RT: 8.68 min Scan# 1411

Delta R.T. -0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

Instrument :

BNA_E

ClientSampleId :

RW-12V

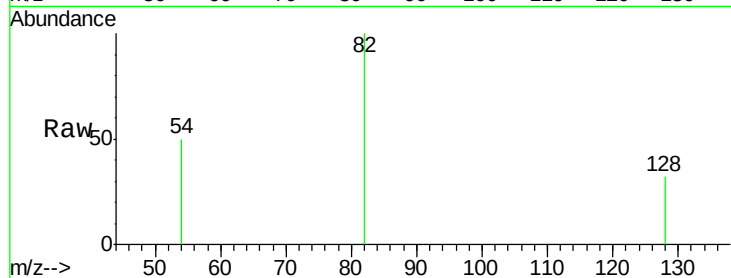
Tgt Ion: 82 Resp: 451431

Ion Ratio Lower Upper

82 100

128 32.0 24.6 37.0

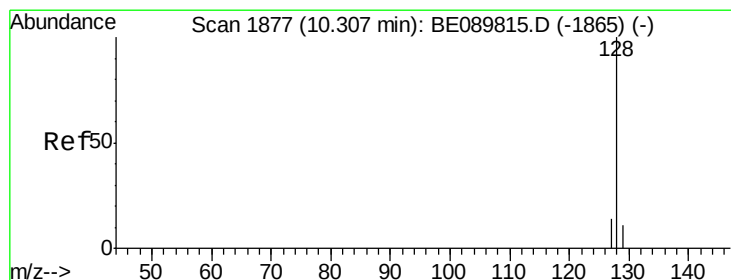
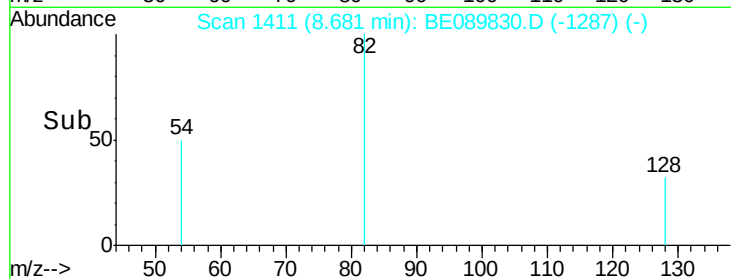
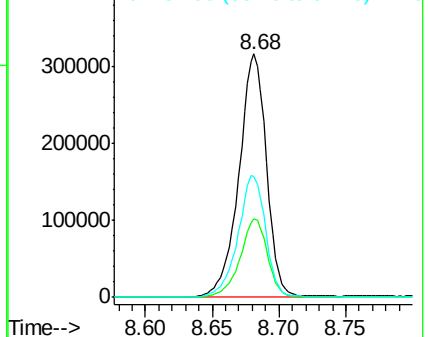
54 49.8 43.0 64.6



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: 0.03 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

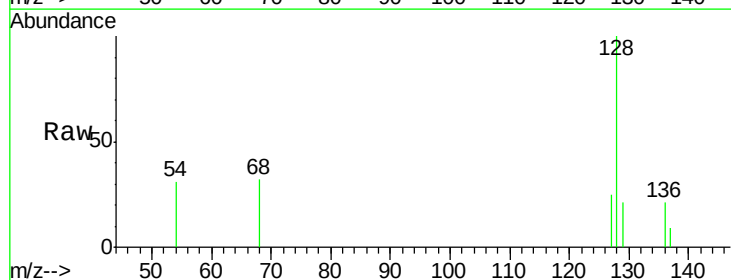
Tgt Ion: 128 Resp: 5539

Ion Ratio Lower Upper

128 100

129 20.8 10.0 15.0#

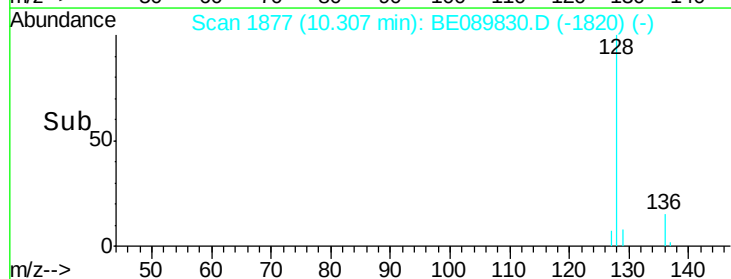
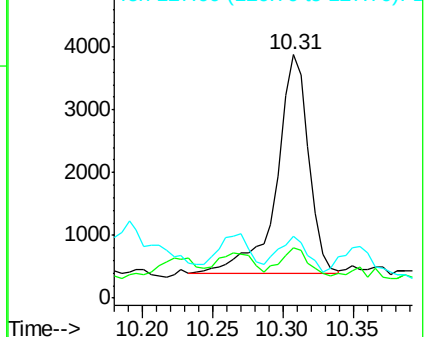
127 25.3 12.5 18.7#

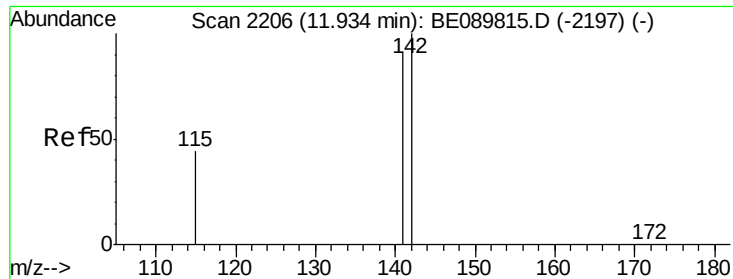


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.03 ng

RT: 11.93 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

Instrument :

BNA_E

ClientSampleId :

RW-12V

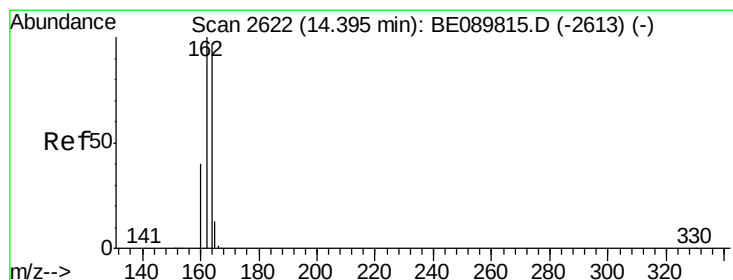
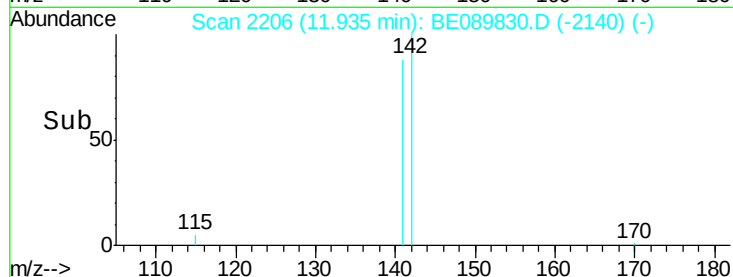
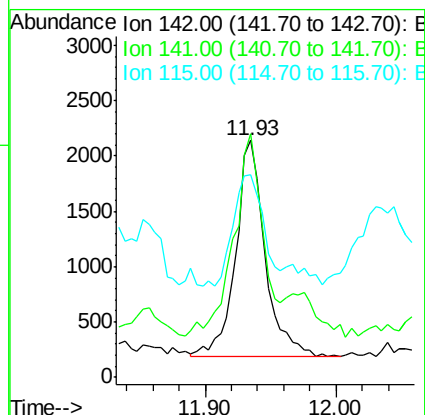
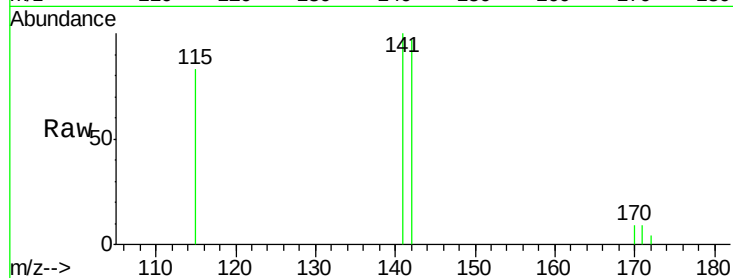
Tgt Ion:142 Resp: 3044

Ion Ratio Lower Upper

142 100

141 102.8 72.8 109.2

115 85.6 32.9 49.3#



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 2622

Delta R.T. 0.01 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

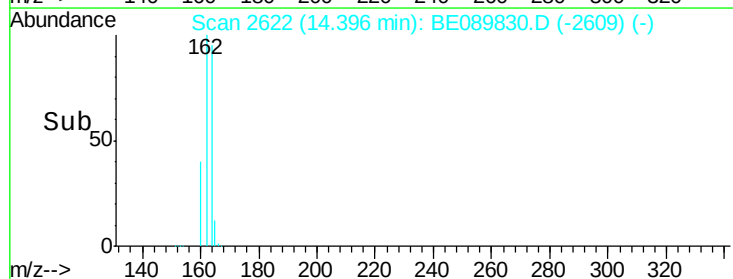
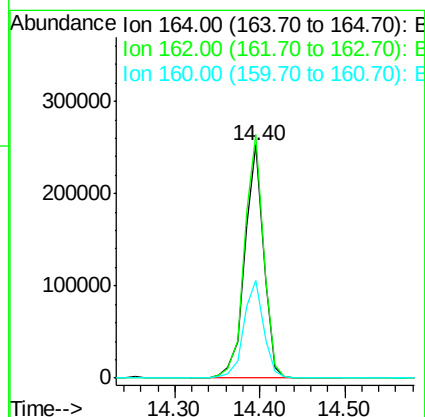
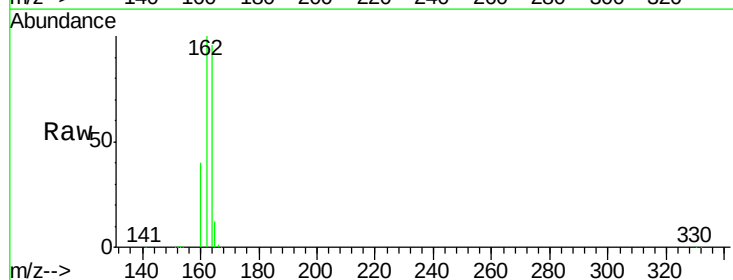
Tgt Ion:164 Resp: 387737

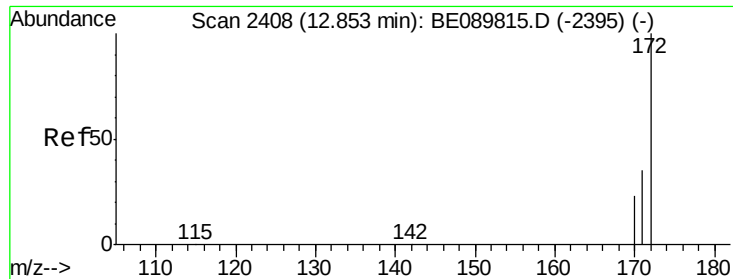
Ion Ratio Lower Upper

164 100

162 104.5 87.6 131.4

160 42.1 36.7 55.1





#9

2-Fluorobiphenyl

Concen: 8.08 ng

RT: 12.85 min Scan# 2408

Delta R.T. 0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

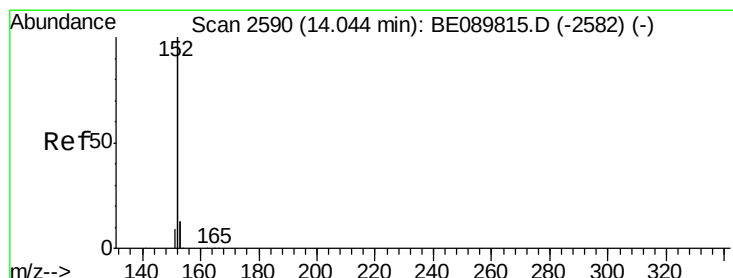
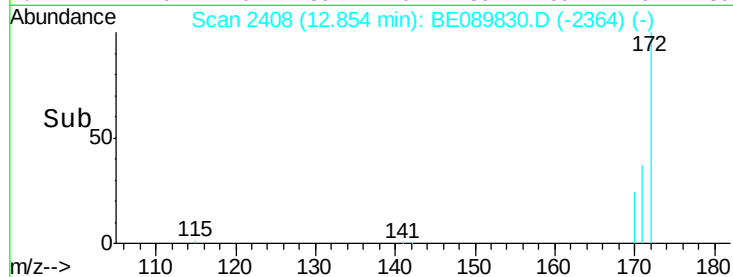
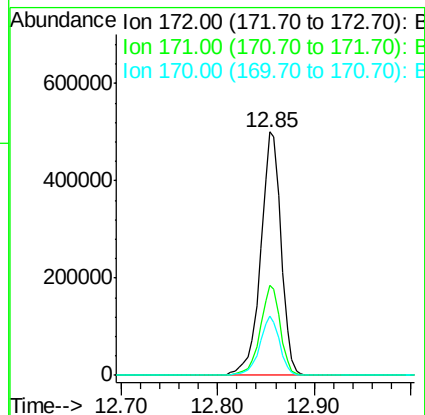
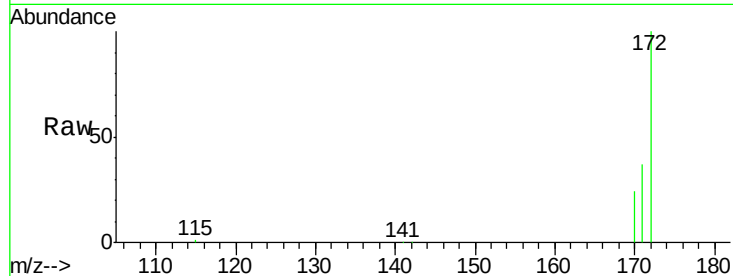
Instrument :

BNA_E

ClientSampleId :

RW-12V

Tgt Ion:	172	Resp:	733477
Ion	Ratio	Lower	Upper
172	100		
171	37.1	30.8	46.2
170	24.2	21.0	31.4



#10

Acenaphthylene

Concen: 0.02 ng

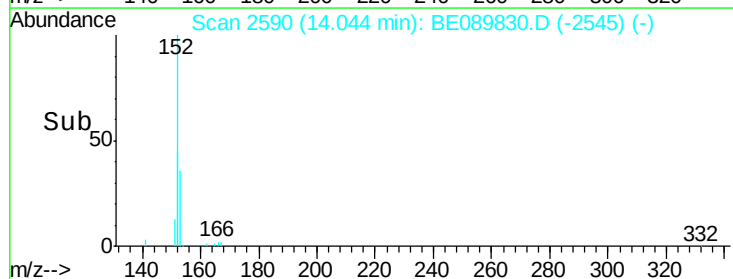
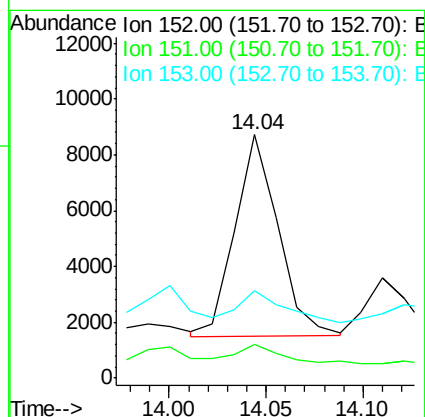
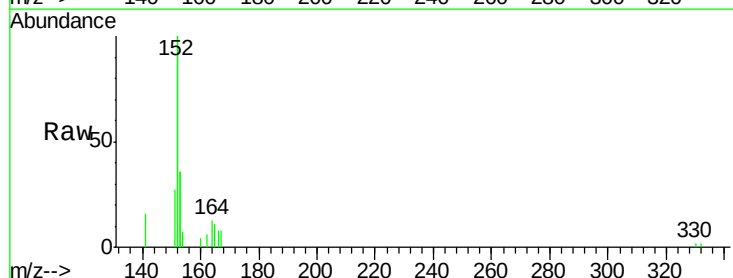
RT: 14.04 min Scan# 2590

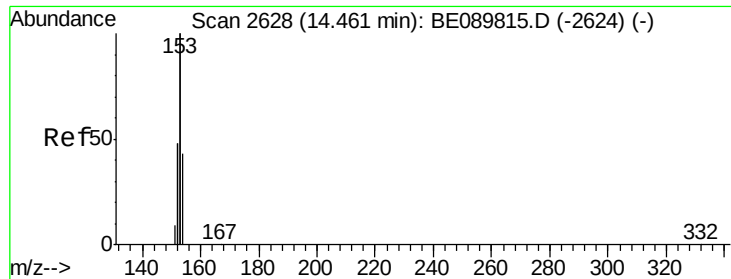
Delta R.T. -0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

Tgt Ion:	152	Resp:	11197
Ion	Ratio	Lower	Upper
152	100		
151	10.1	3.9	5.9#
153	23.7	11.0	16.4#





#11

Acenaphthene

Concen: 0.01 ng

RT: 14.46 min Scan# 2628

Delta R.T. -0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

Instrument :

BNA_E

ClientSampled :

RW-12V

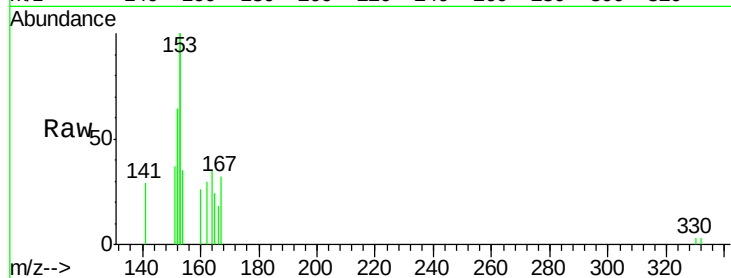
Tgt Ion:154 Resp: 1046

Ion Ratio Lower Upper

154 100

153 434.1 401.5 602.3

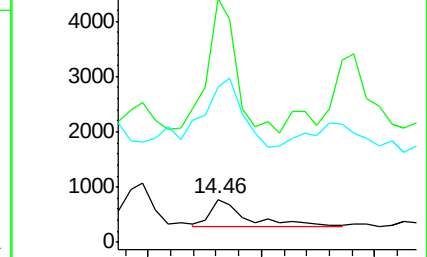
152 309.8 198.6 298.0#



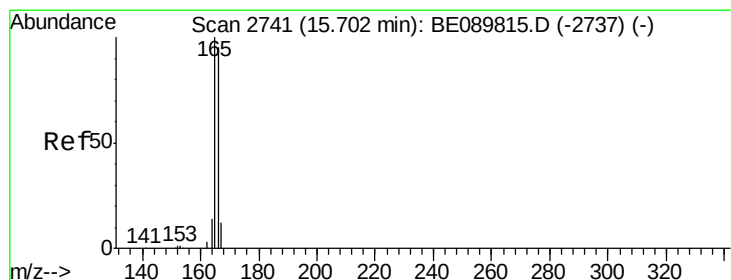
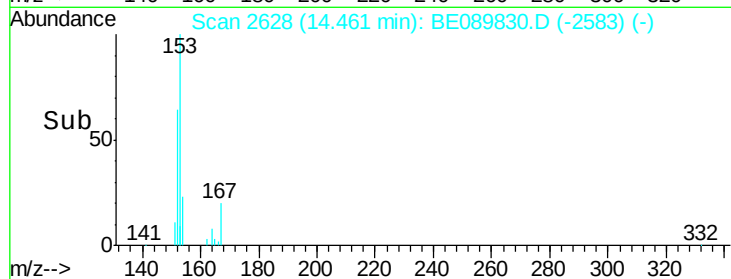
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#12

Fluorene

Concen: 0.01 ng

RT: 15.71 min Scan# 2742

Delta R.T. -0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

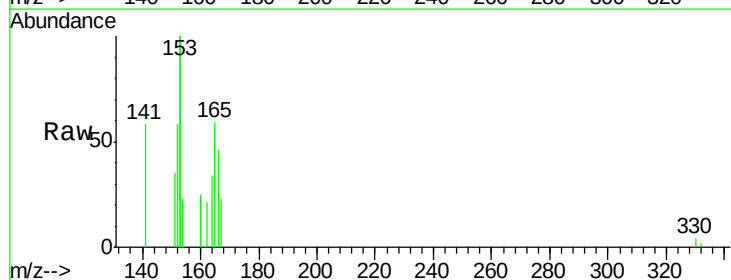
Tgt Ion:166 Resp: 1417

Ion Ratio Lower Upper

166 100

165 129.9 85.1 127.7#

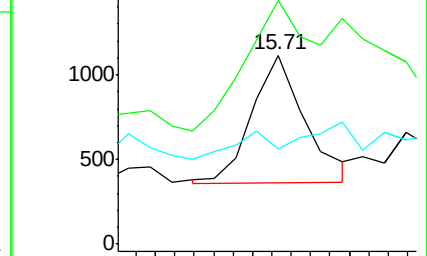
167 16.9 12.2 18.4



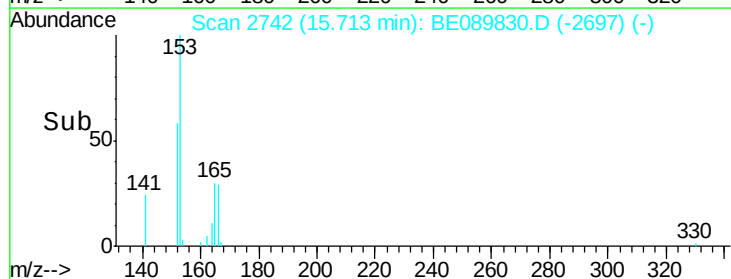
Abundance Ion 166.00 (165.70 to 166.70): E

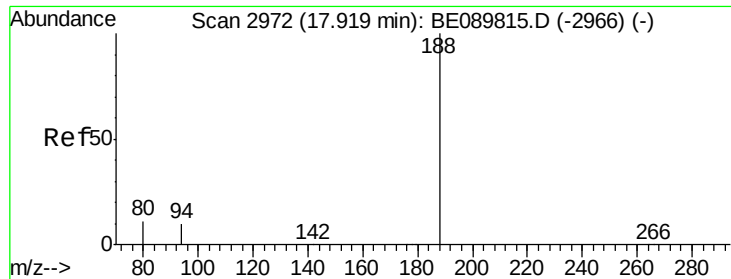
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->

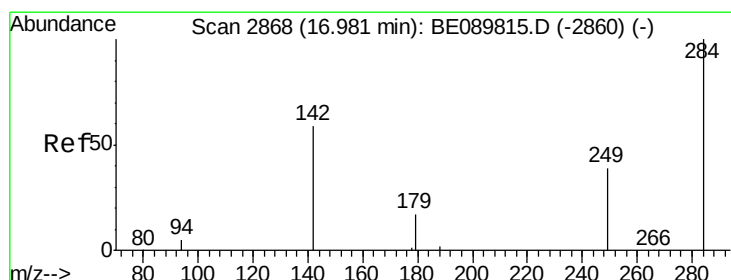
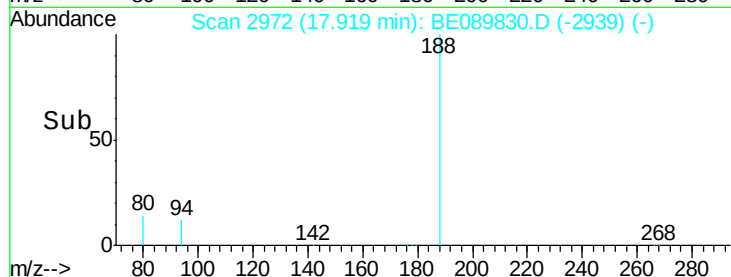
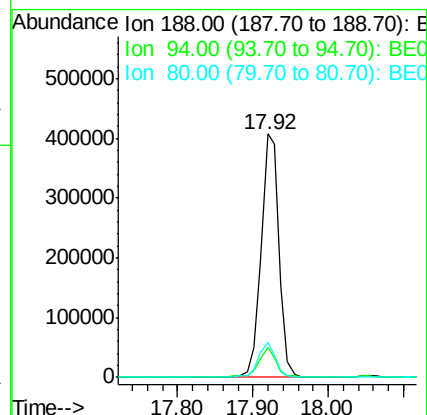
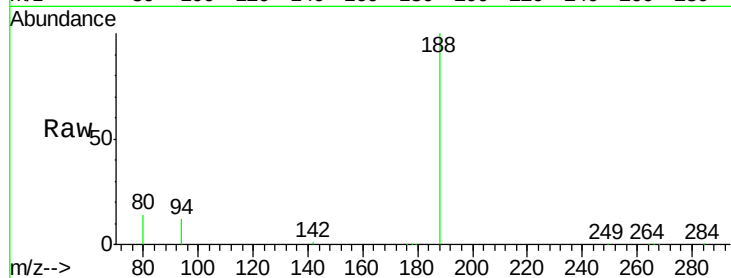




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.92 min Scan# 2972
Delta R.T. -0.00 min
Lab File: BE089830.D
Acq: 25 Mar 2015 3:36

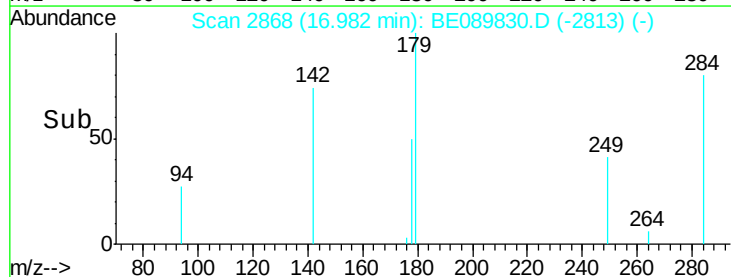
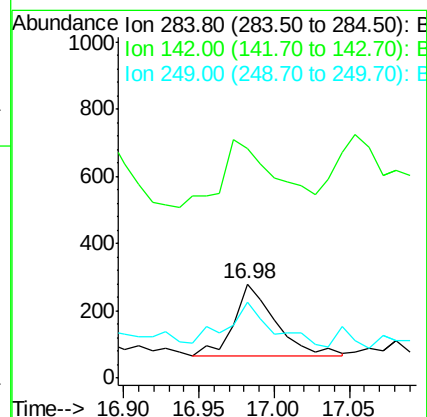
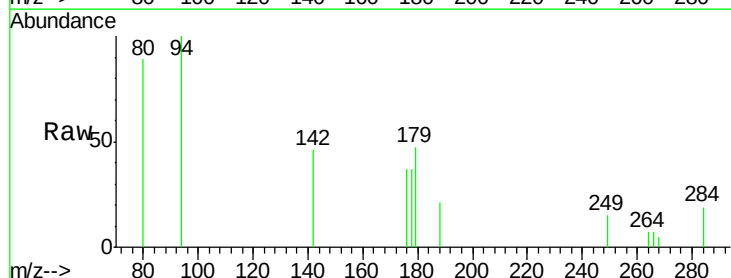
Instrument :
BNA_E
ClientSampleId :
RW-12V

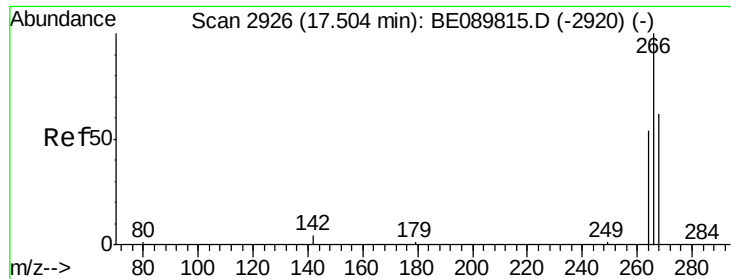
Tgt Ion:188 Resp: 669660
Ion Ratio Lower Upper
188 100
94 12.2 8.5 12.7
80 14.5 10.0 15.0



#14
Hexachlorobenzene
Concen: 0.02 ng
RT: 16.98 min Scan# 2868
Delta R.T. -0.00 min
Lab File: BE089830.D
Acq: 25 Mar 2015 3:36

Tgt Ion:284 Resp: 416
Ion Ratio Lower Upper
284 100
142 127.4 53.3 79.9#
249 68.5 31.1 46.7#

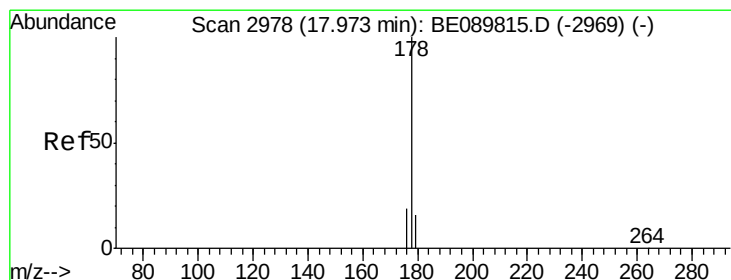
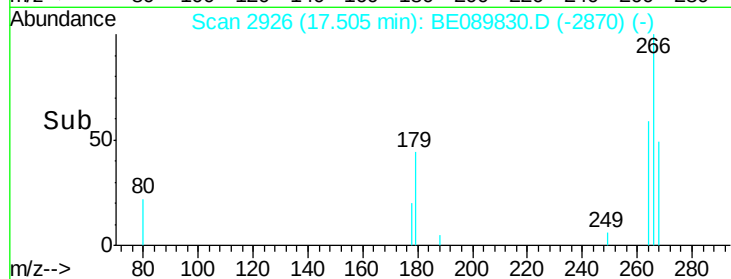
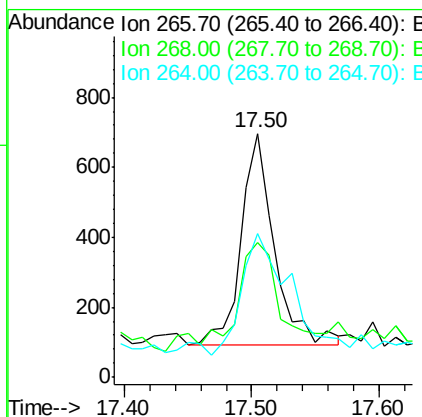
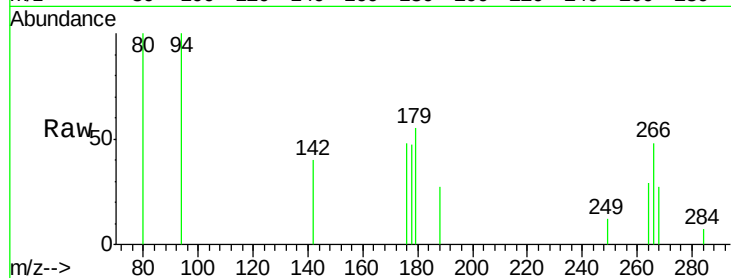




#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 17.50 min Scan# 2926
 Delta R.T. 0.00 min
 Lab File: BE089830.D
 Acq: 25 Mar 2015 3:36

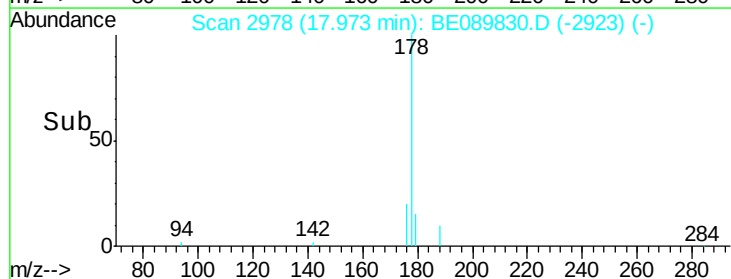
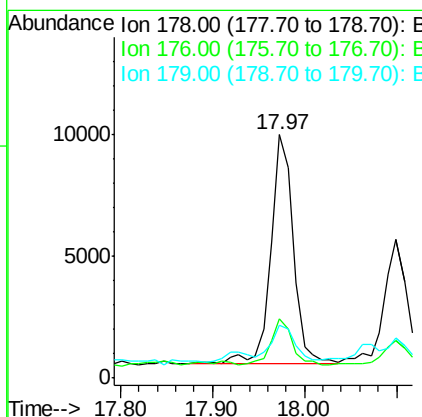
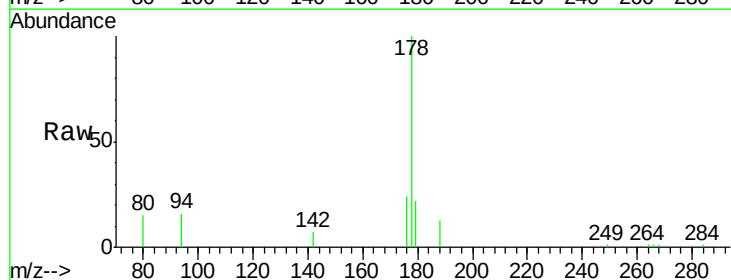
Instrument :
 BNA_E
 ClientSampleId :
 RW-12V

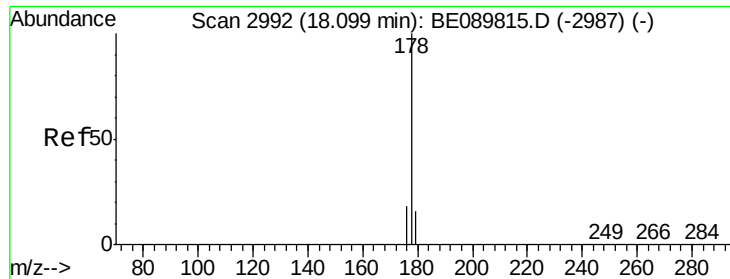
Tgt Ion: 266 Resp: 1080
 Ion Ratio Lower Upper
 266 100
 268 55.2 51.6 77.4
 264 59.2 50.2 75.2



#16
 Phenanthrene
 Concen: 0.11 ng
 RT: 17.97 min Scan# 2978
 Delta R.T. -0.00 min
 Lab File: BE089830.D
 Acq: 25 Mar 2015 3:36

Tgt Ion: 178 Resp: 15949
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.4 23.0
 179 15.7 12.2 18.4





#17

Anthracene

Concen: 0.12 ng

RT: 17.97 min Scan# 2978

Delta R.T. -0.13 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

Instrument :

BNA_E

ClientSampleId :

RW-12V

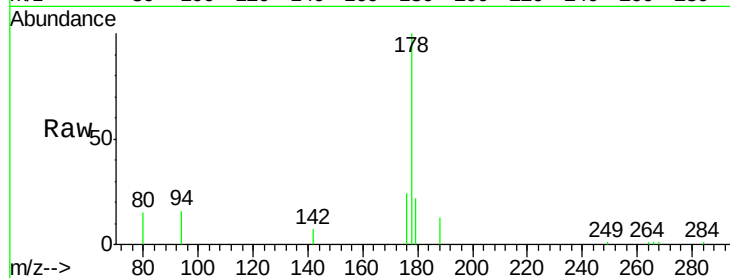
Tgt Ion:178 Resp: 15949

Ion Ratio Lower Upper

178 100

176 19.1 14.6 21.8

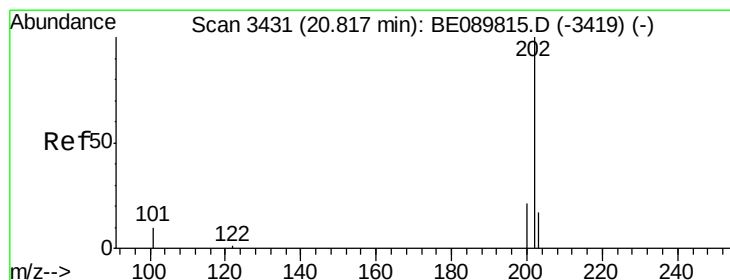
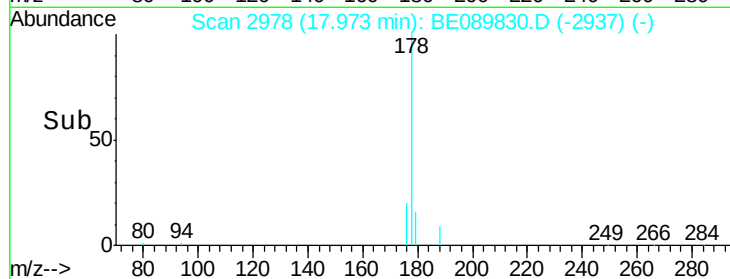
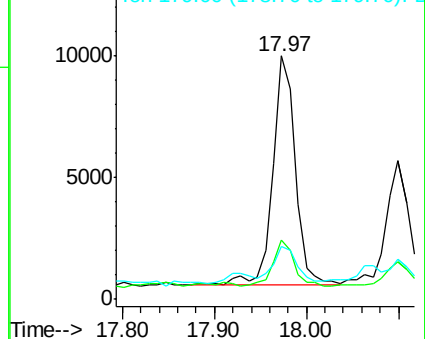
179 15.7 12.1 18.1



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: 0.31 ng

RT: 20.83 min Scan# 3433

Delta R.T. 0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

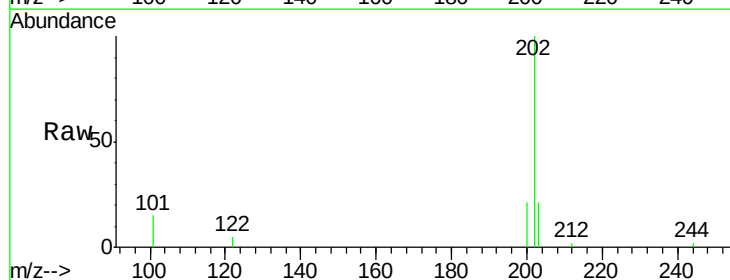
Tgt Ion:202 Resp: 41145

Ion Ratio Lower Upper

202 100

101 11.4 8.2 12.2

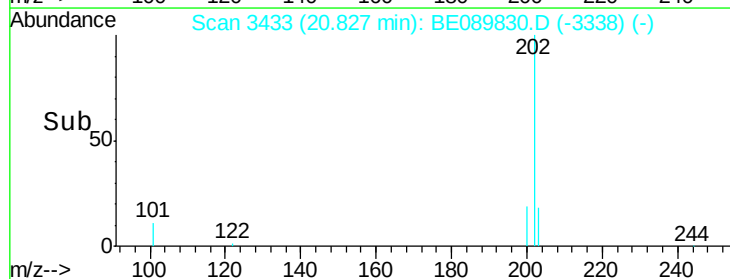
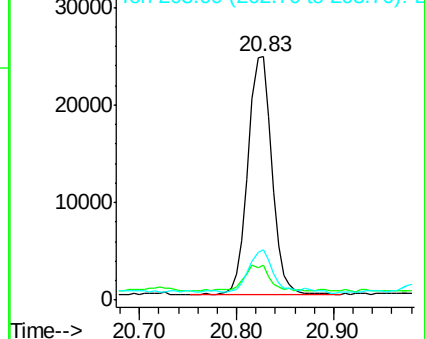
203 16.6 14.2 21.4

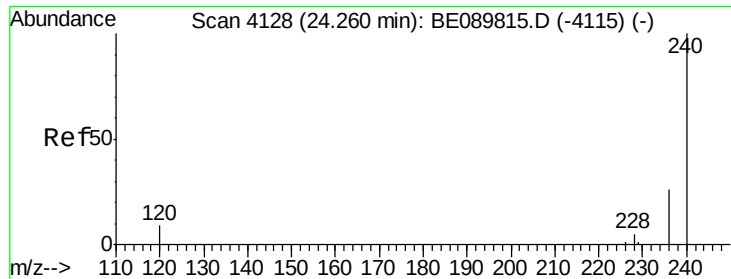


Abundance Ion 202.00 (201.70 to 202.70): E

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# 4129

Delta R.T. 0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

Instrument :

BNA_E

ClientSampled :

RW-12V

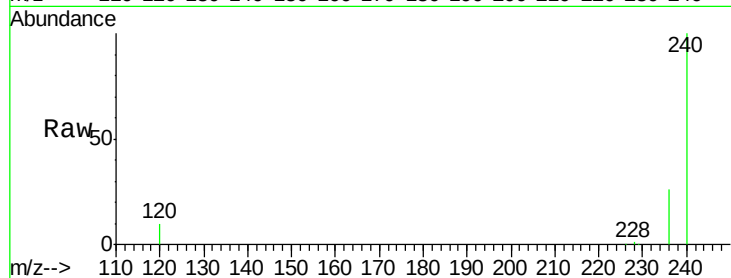
Tgt Ion:240 Resp: 654269

Ion Ratio Lower Upper

240 100

120 10.1 7.5 11.3

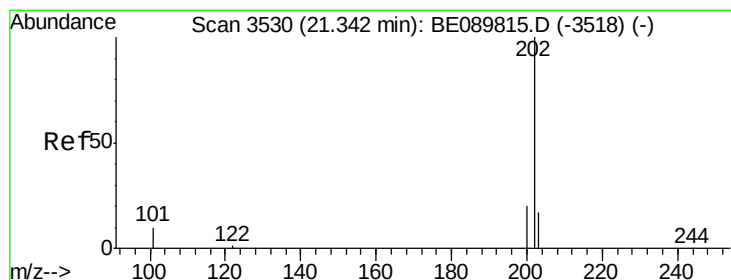
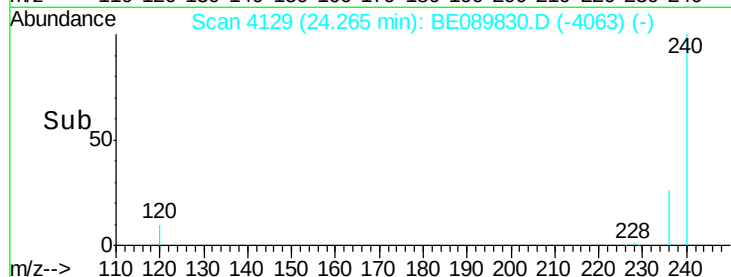
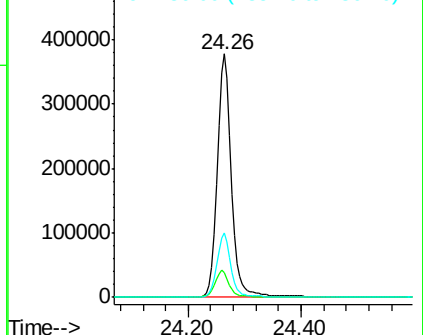
236 26.4 20.5 30.7



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: 0.21 ng

RT: 21.35 min Scan# 3531

Delta R.T. -0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

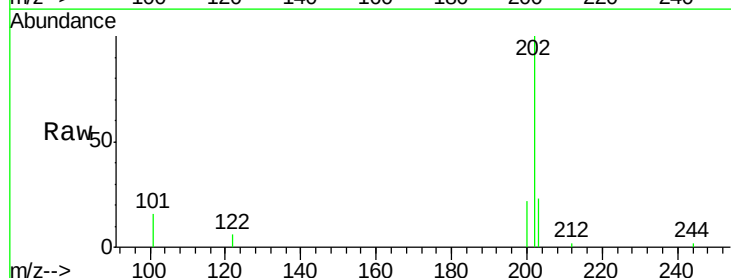
Tgt Ion:202 Resp: 35608

Ion Ratio Lower Upper

202 100

200 20.5 15.9 23.9

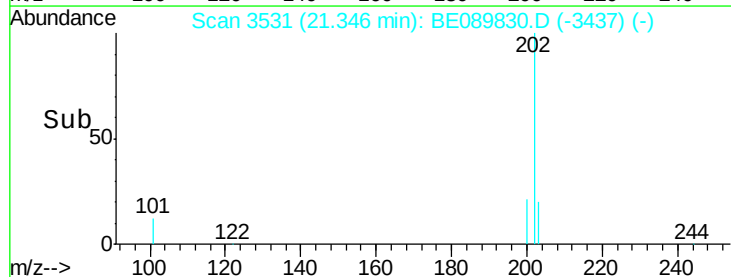
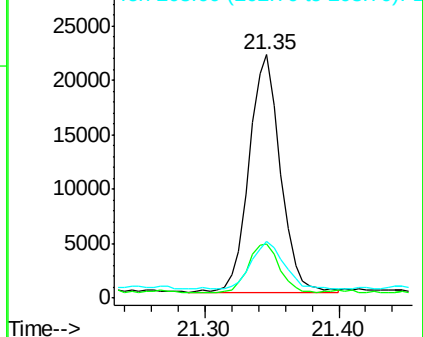
203 20.9 13.6 20.4#

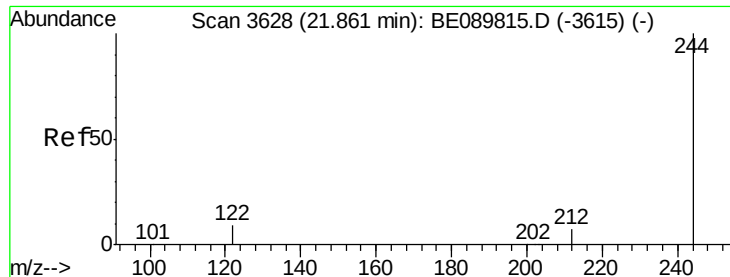


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

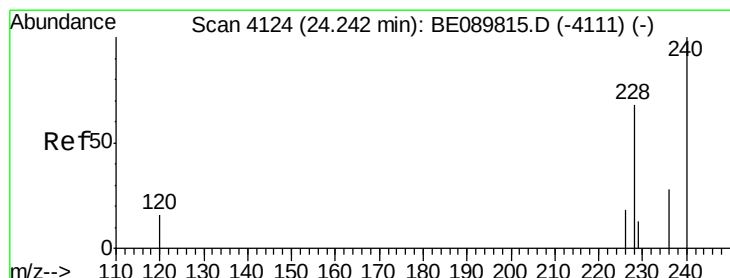
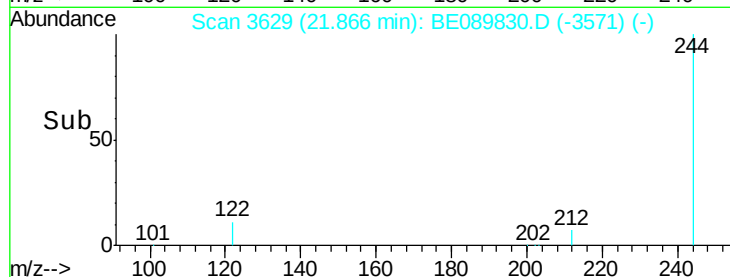
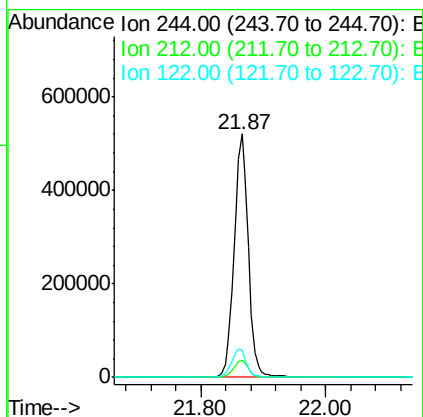
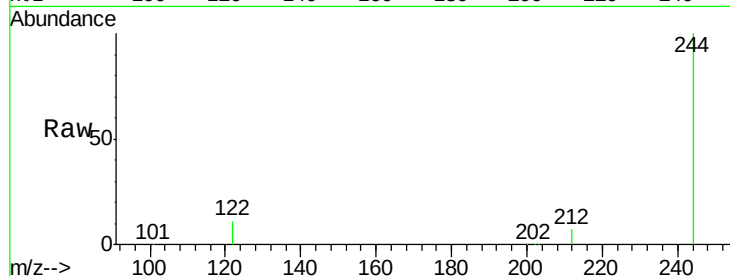




#21
 Terphenyl-d14
 Concen: 8.60 ng
 RT: 21.87 min Scan# 3629
 Delta R.T. 0.00 min
 Lab File: BE089830.D
 Acq: 25 Mar 2015 3:36

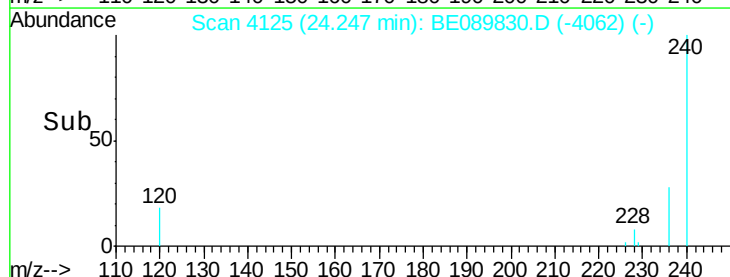
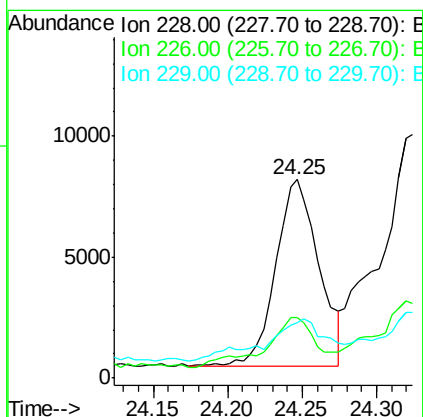
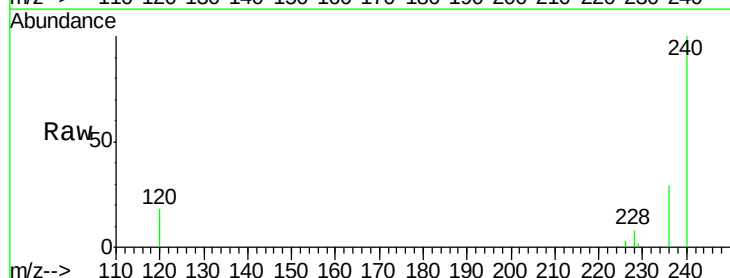
Instrument :
 BNA_E
 ClientSampleId :
 RW-12V

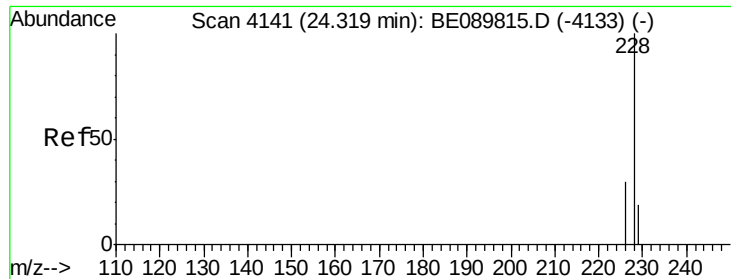
Tgt Ion:244 Resp: 830170
 Ion Ratio Lower Upper
 244 100
 212 7.2 7.3 10.9#
 122 11.3 10.5 15.7



#22
 Benzo(a)anthracene
 Concen: 0.13 ng
 RT: 24.25 min Scan# 4125
 Delta R.T. -0.00 min
 Lab File: BE089830.D
 Acq: 25 Mar 2015 3:36

Tgt Ion:228 Resp: 15665
 Ion Ratio Lower Upper
 228 100
 226 30.3 19.8 29.8#
 229 28.0 16.3 24.5#





#23

Chrysene

Concen: 0.18 ng

RT: 24.32 min Scan# 4142

Delta R.T. 0.01 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

Instrument :

BNA_E

ClientSampleId :

RW-12V

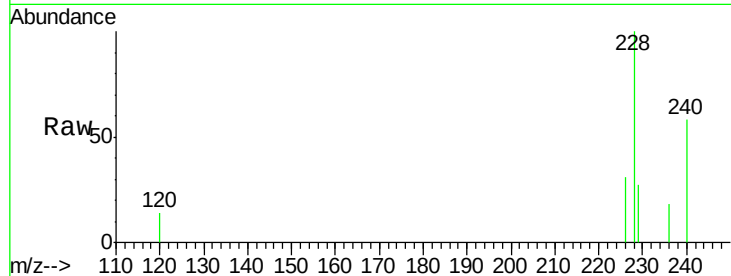
Tgt Ion: 228 Resp: 24368

Ion Ratio Lower Upper

228 100

226 30.6 23.0 34.4

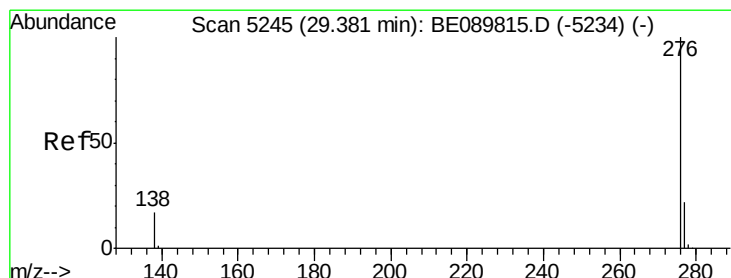
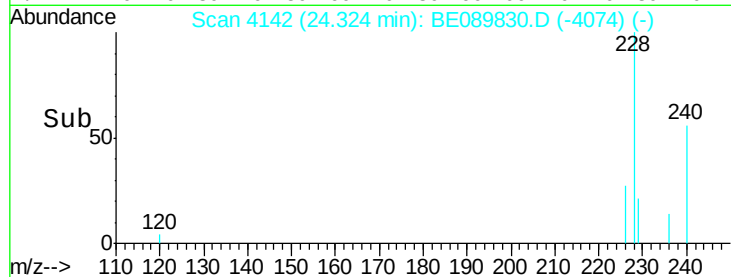
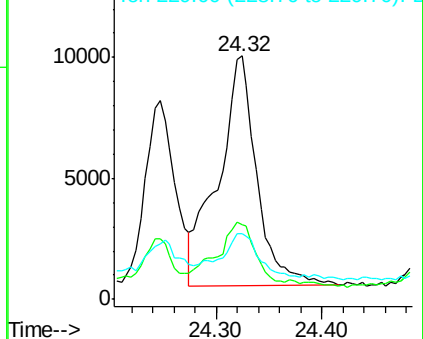
229 27.1 15.8 23.6#



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: 0.50 ng

RT: 29.39 min Scan# 5247

Delta R.T. 0.01 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

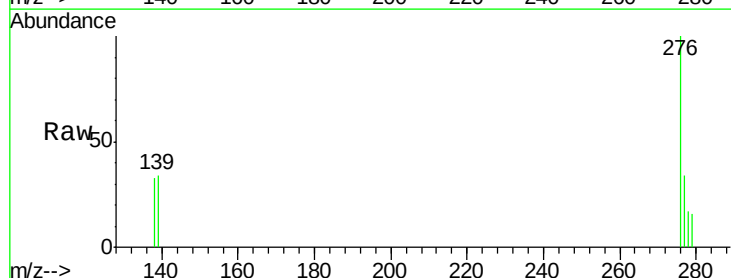
Tgt Ion: 276 Resp: 11631

Ion Ratio Lower Upper

276 100

138 10.6 4.3 6.5#

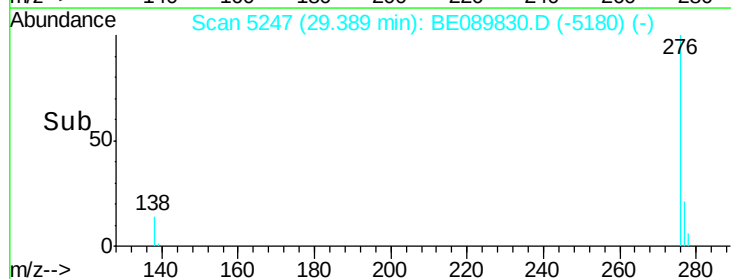
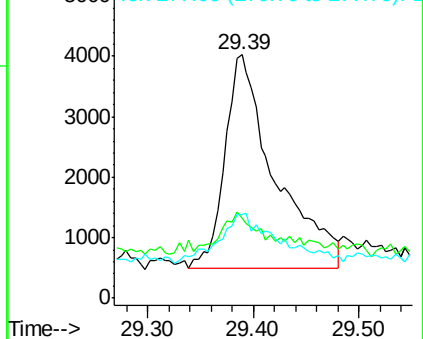
277 24.1 9.0 13.4#

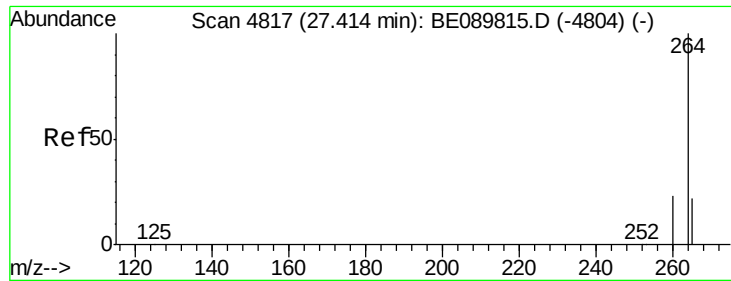


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

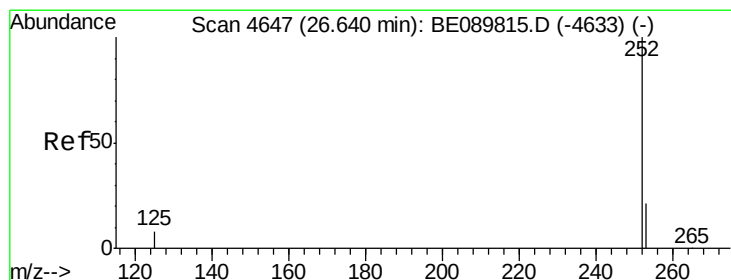
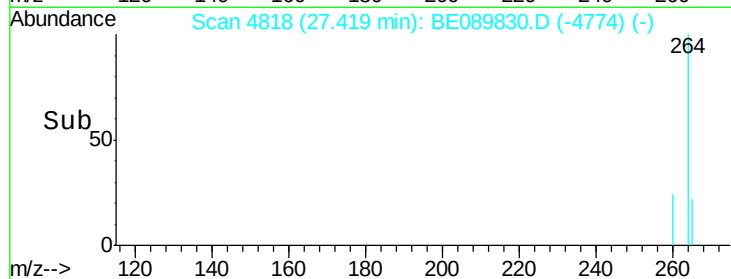
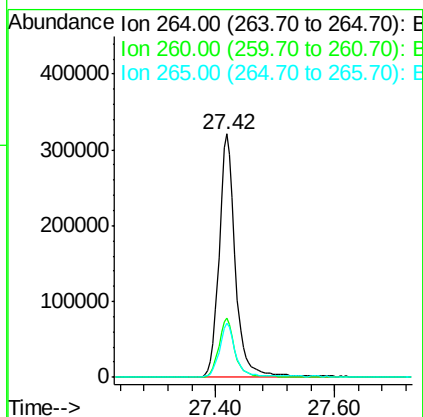
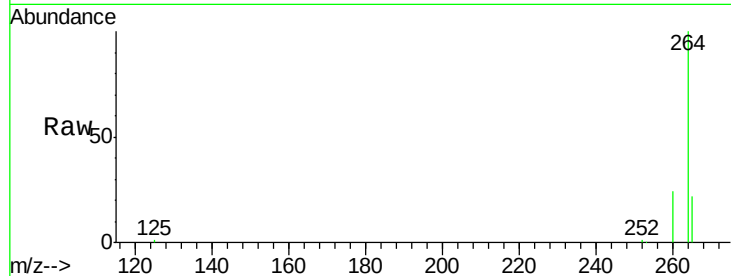




#25
Perylene-d12
Concen: 5.00 ng
RT: 27.42 min Scan# 4818
Delta R.T. 0.00 min
Lab File: BE089830.D
Acq: 25 Mar 2015 3:36

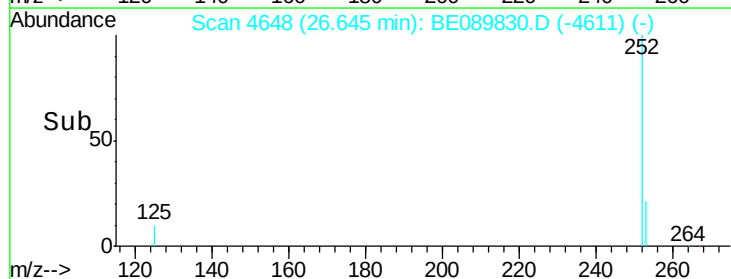
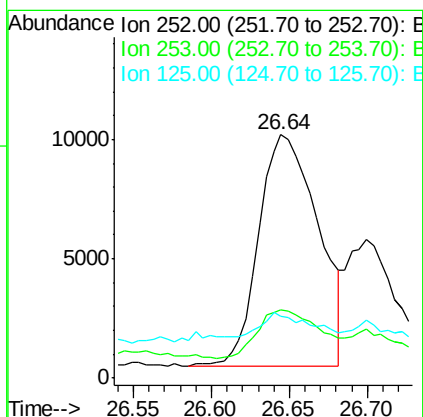
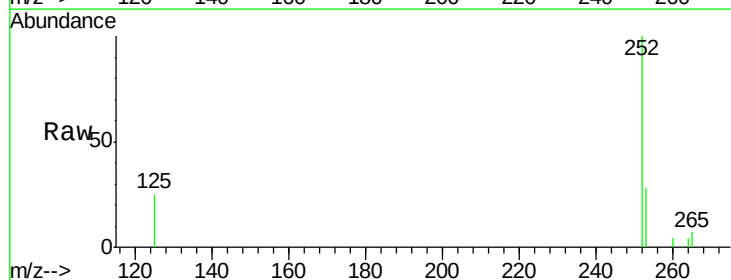
Instrument :
BNA_E
ClientSampleId :
RW-12V

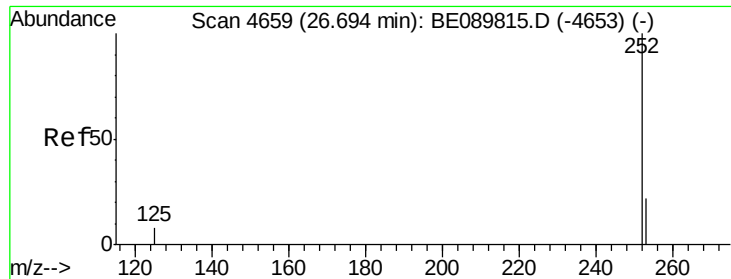
Tgt Ion:264 Resp: 610363
Ion Ratio Lower Upper
264 100
260 24.1 18.2 27.2
265 22.1 17.3 25.9



#26
Benzo(b)fluoranthene
Concen: 0.50 ng
RT: 26.64 min Scan# 4648
Delta R.T. 0.01 min
Lab File: BE089830.D
Acq: 25 Mar 2015 3:36

Tgt Ion:252 Resp: 25830
Ion Ratio Lower Upper
252 100
253 28.2 17.8 26.6#
125 25.5 8.7 13.1#

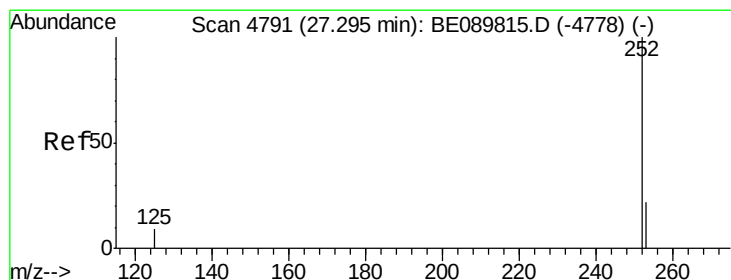
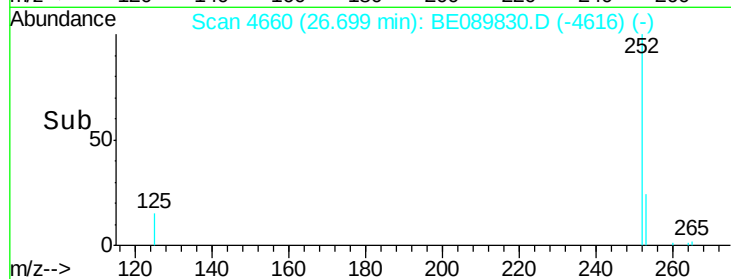
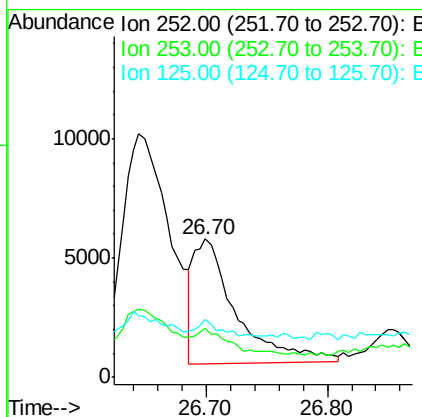
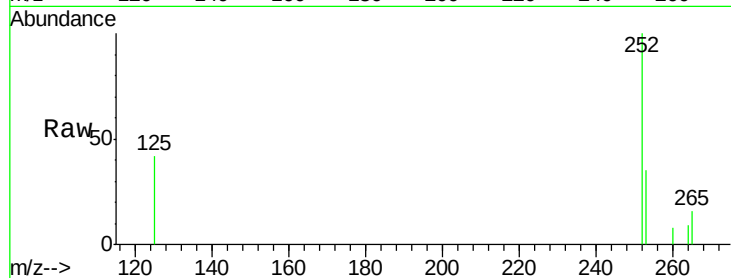




#27
Benzo(k)fluoranthene
Concen: 0.10 ng
RT: 26.70 min Scan# 4660
Delta R.T. -0.00 min
Lab File: BE089830.D
Acq: 25 Mar 2015 3:36

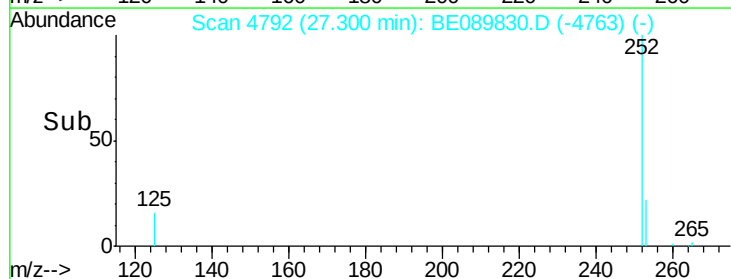
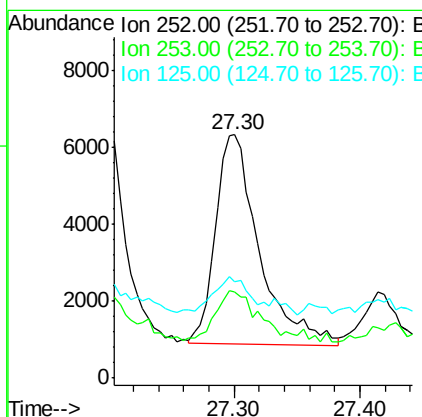
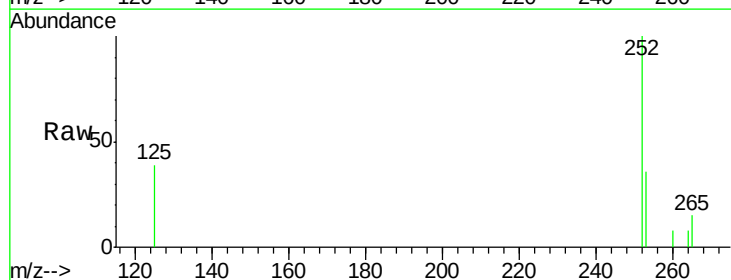
Instrument :
BNA_E
ClientSampleId :
RW-12V

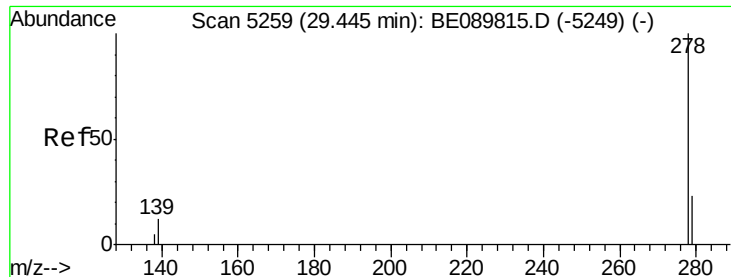
Tgt Ion: 252 Resp: 12531
Ion Ratio Lower Upper
252 100
253 35.1 18.6 28.0#
125 42.1 10.8 16.2#



#28
Benzo(a)pyrene
Concen: 0.40 ng
RT: 27.30 min Scan# 4792
Delta R.T. 0.00 min
Lab File: BE089830.D
Acq: 25 Mar 2015 3:36

Tgt Ion: 252 Resp: 13026
Ion Ratio Lower Upper
252 100
253 35.6 21.0 31.4#
125 39.5 13.3 19.9#





#29

Dibenzo(a,h)anthracene

Concen: 0.43 ng

RT: 29.44 min Scan# 5259

Delta R.T. 0.00 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

Instrument :

BNA_E

ClientSampleId :

RW-12V

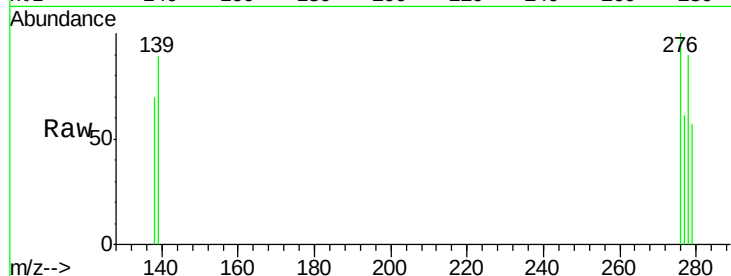
Tgt Ion: 278 Resp: 1963

Ion Ratio Lower Upper

278 100

139 99.2 20.0 30.0#

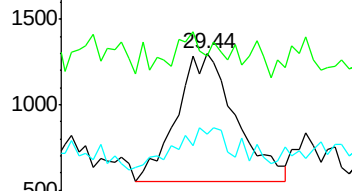
279 63.7 28.9 43.3#



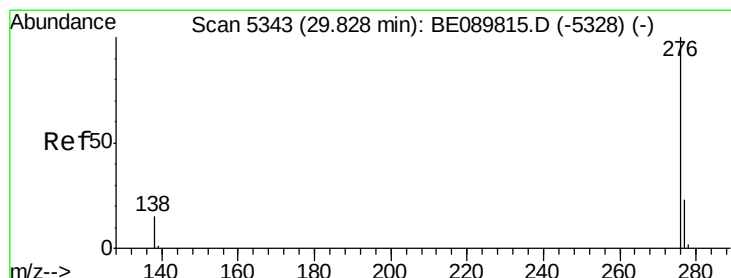
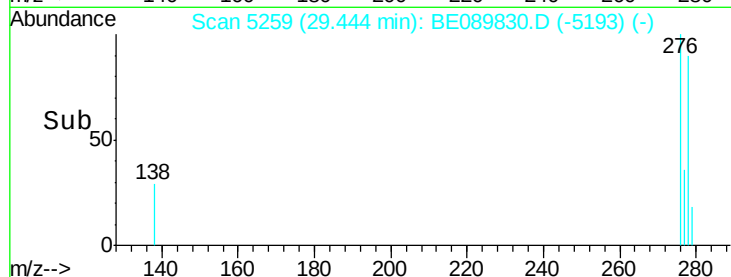
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.37 ng

RT: 29.84 min Scan# 5345

Delta R.T. 0.01 min

Lab File: BE089830.D

Acq: 25 Mar 2015 3:36

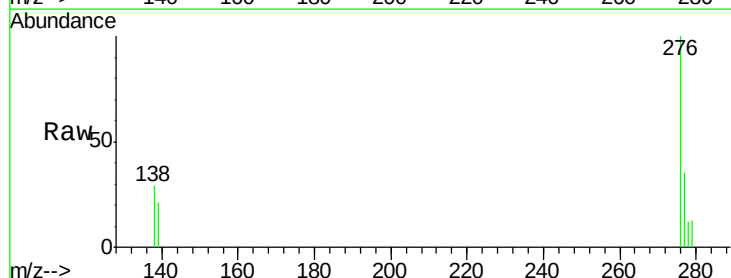
Tgt Ion: 276 Resp: 15177

Ion Ratio Lower Upper

276 100

277 35.1 19.2 28.8#

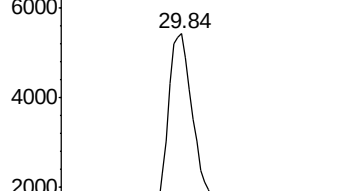
138 28.9 22.9 34.3



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E



Time-->

