

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032615\
 Data File : BE089866.D
 Acq On : 26 Mar 2015 20:53
 Operator : TP/JJ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Quant Time: Mar 27 02:17:26 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 27 01:45:40 2015
 Response via : Initial Calibration

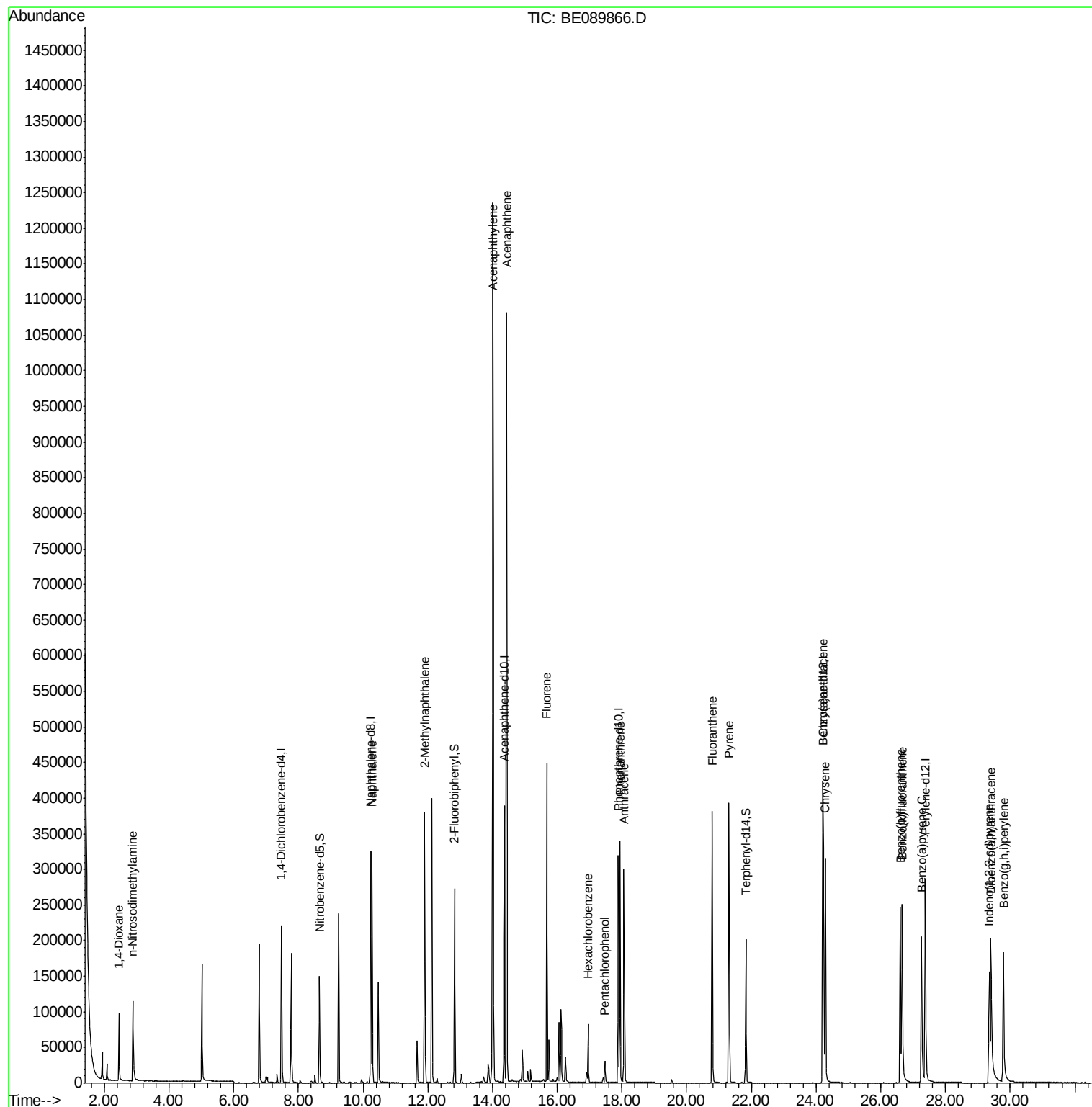
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.47	152	86522	5.00	ng	0.00
4) Naphthalene-d8	10.23	136	364164	5.00	ng	0.00
8) Acenaphthene-d10	14.36	164	217664	5.00	ng	0.00
13) Phenanthrene-d10	17.89	188	404435	5.00	ng	0.00
19) Chrysene-d12	24.23	240	421154	5.00	ng	0.00
25) Perylene-d12	27.38	264	377578	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.66	82	110326	5.23	ng	0.00
9) 2-Fluorobiphenyl	12.83	172	232544	4.51	ng	0.00
21) Terphenyl-d14	21.83	244	269803	4.32	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.45	88	53982	4.53	ng	92
3) n-Nitrosodimethylamine	2.88	42	71847	4.46	ng	83
6) Naphthalene	10.28	128	350092	4.79	ng	96
7) 2-Methylnaphthalene	11.91	142	230067	5.58	ng	99
10) Acenaphthylene	14.01	152	1487378	4.71	ng	99
11) Acenaphthene	14.44	154	210520	4.37	ng	86
12) Fluorene	15.68	166	269711	4.57	ng	95
14) Hexachlorobenzene	16.95	284	55996	4.15	ng	98
15) Pentachlorophenol	17.48	266	23460	4.77	ng	98
16) Phenanthrene	17.95	178	387644	4.31	ng	100
17) Anthracene	18.06	178	374759	4.66	ng	99
18) Fluoranthene	20.79	202	413594	5.01	ng	99
20) Pyrene	21.31	202	432647	4.06	ng	98
22) Benzo(a)anthracene	24.21	228	374419	4.66	ng	97
23) Chrysene	24.29	228	383430	4.42	ng	99
24) Indeno(1,2,3-cd)pyrene	29.35	276	359434m	6.88	ng	
26) Benzo(b)fluoranthene	26.60	252	346026	5.69	ng	98
27) Benzo(k)fluoranthene	26.66	252	408175	5.00	ng	# 94
28) Benzo(a)pyrene	27.26	252	320525	5.61	ng	# 89
29) Dibenzo(a,h)anthracene	29.41	278	280352	6.81	ng	# 78
30) Benzo(g,h,i)perylene	29.79	276	315496	5.39	ng	# 87

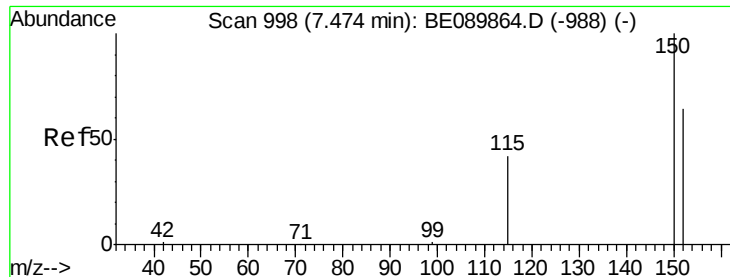
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.47 min Scan# 998

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

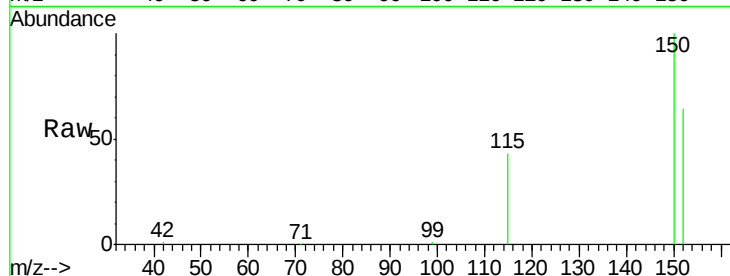
Tgt Ion:152 Resp: 86522

Ion Ratio Lower Upper

152 100

150 156.5 125.5 188.3

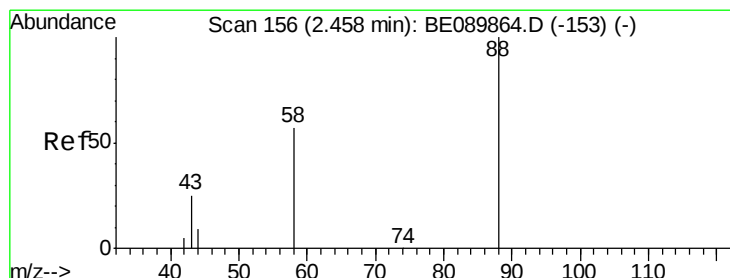
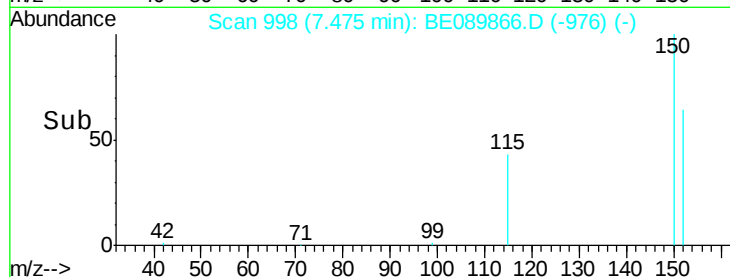
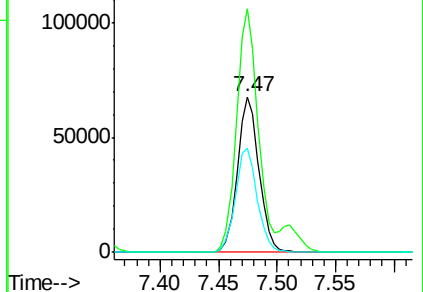
115 67.0 58.0 87.0



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: 4.53 ng

RT: 2.45 min Scan# 155

Delta R.T. -0.01 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

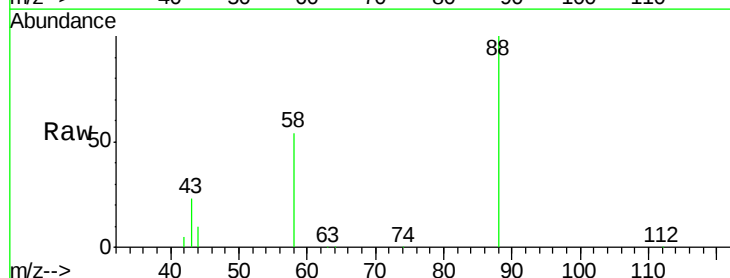
Tgt Ion: 88 Resp: 53982

Ion Ratio Lower Upper

88 100

58 65.8 48.6 72.8

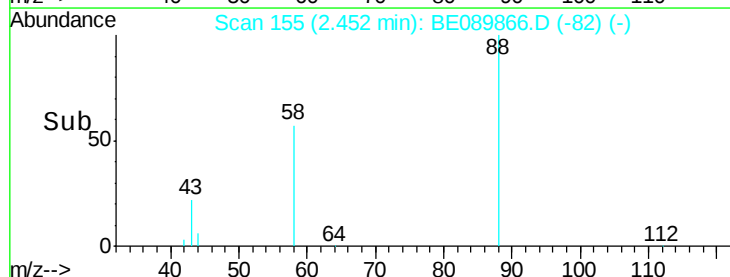
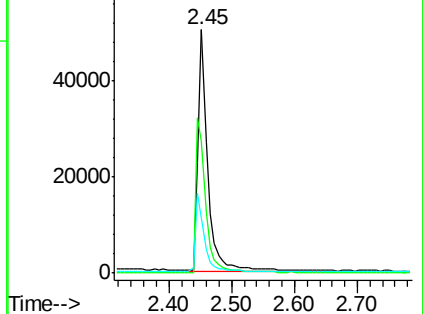
43 29.1 28.6 43.0

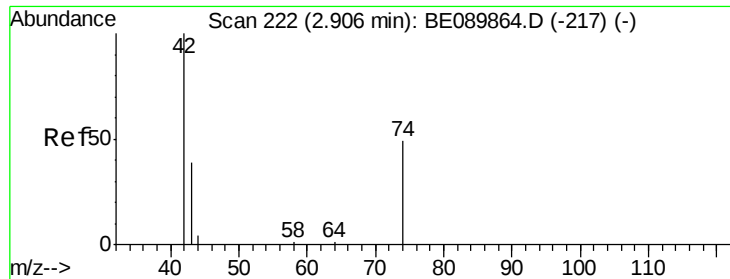


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 4.46 ng

RT: 2.88 min Scan# 218

Delta R.T. -0.03 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

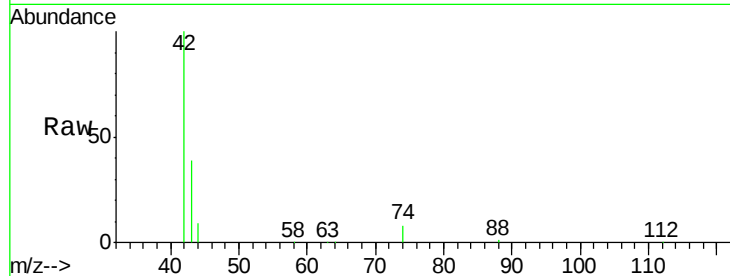
Tgt Ion: 42 Resp: 71847

Ion Ratio Lower Upper

42 100

74 102.7 68.7 103.1

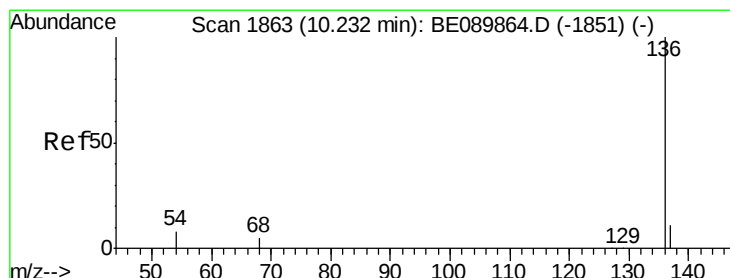
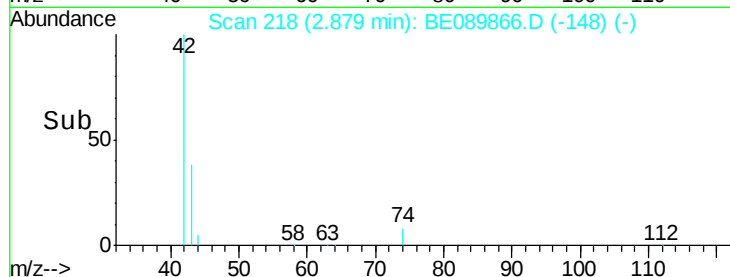
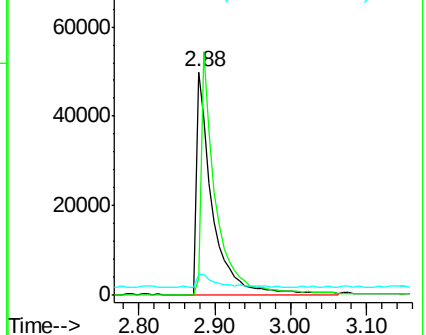
44 7.2 6.2 9.4



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: 10.23 min Scan# 1863

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

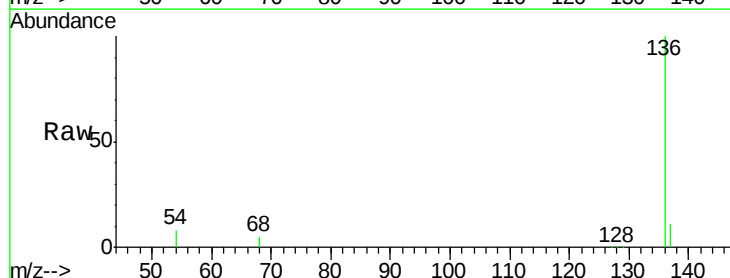
Tgt Ion: 136 Resp: 364164

Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

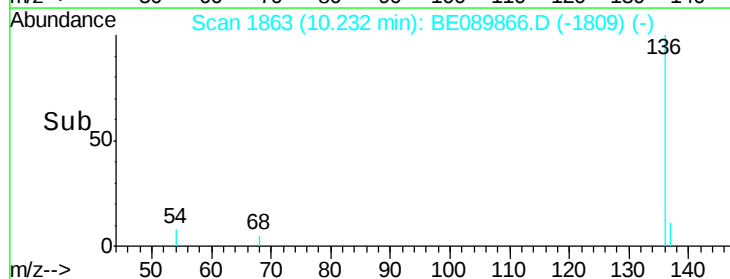
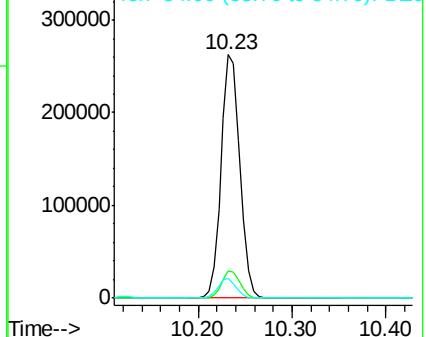
54 8.0 7.0 10.4

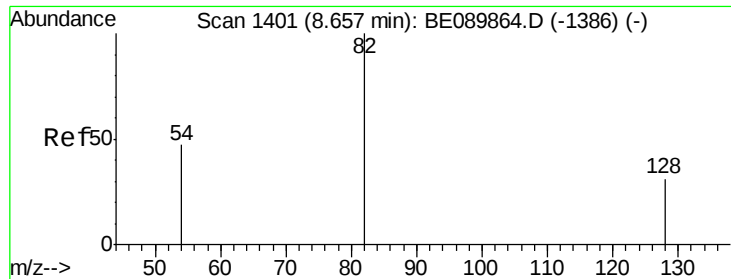


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 5.23 ng

RT: 8.66 min Scan# 1400

Delta R.T. -0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

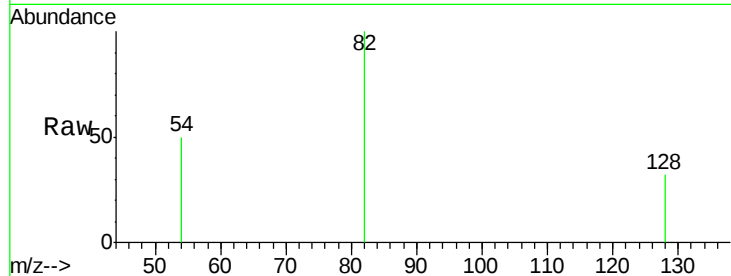
Tgt Ion: 82 Resp: 110326

Ion Ratio Lower Upper

82 100

128 32.4 24.6 37.0

54 50.5 43.0 64.6



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

8.66

100000

80000

60000

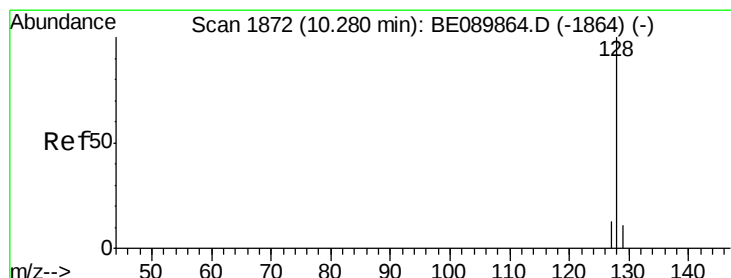
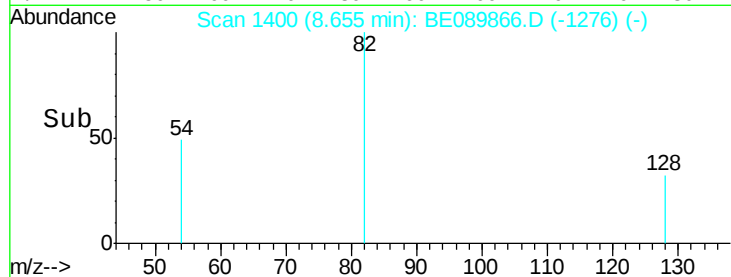
40000

20000

0

Time-->

8.60 8.65 8.70 8.75



#6

Naphthalene

Concen: 4.79 ng

RT: 10.28 min Scan# 1872

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

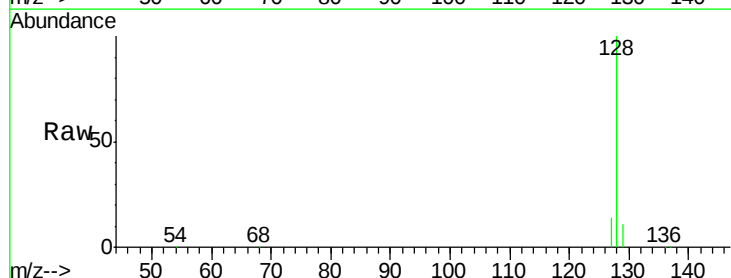
Tgt Ion: 128 Resp: 350092

Ion Ratio Lower Upper

128 100

129 10.8 10.0 15.0

127 13.8 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

10.28

300000

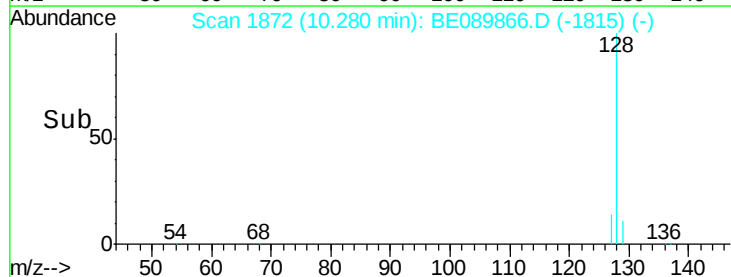
200000

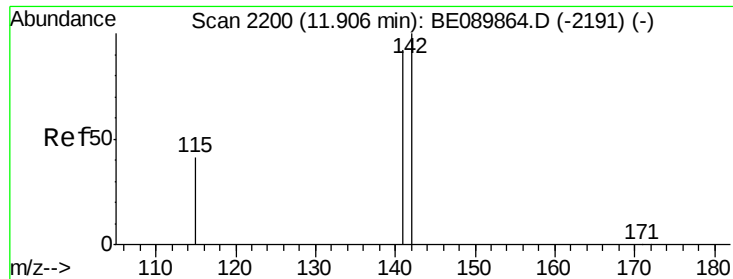
100000

0

Time-->

10.20 10.30 10.40





#7

2-Methylnaphthalene

Concen: 5.58 ng

RT: 11.91 min Scan# 2201

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

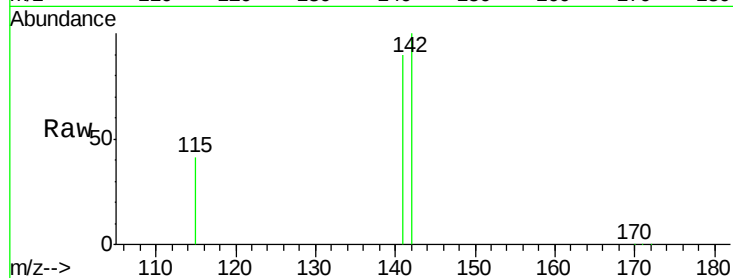
Tgt Ion:142 Resp: 230067

Ion Ratio Lower Upper

142 100

141 90.5 72.8 109.2

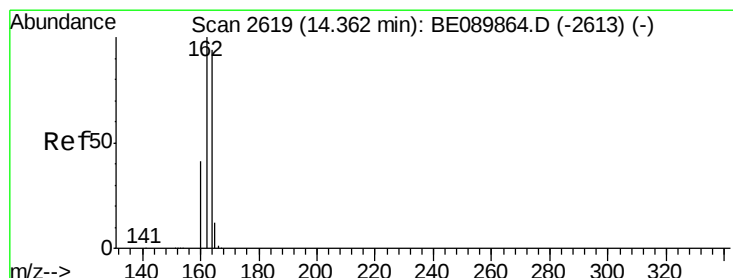
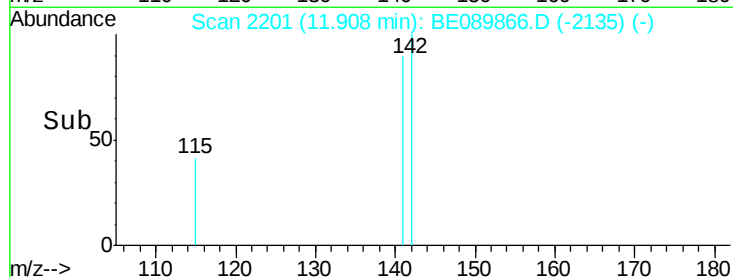
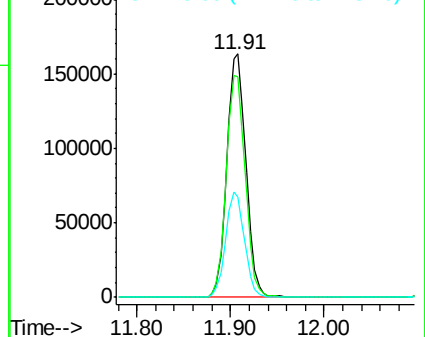
115 41.4 32.9 49.3



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: 14.36 min Scan# 2620

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

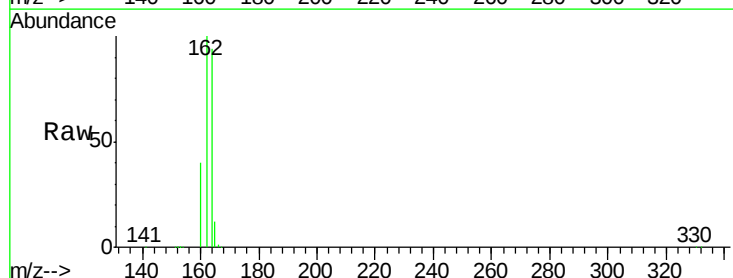
Tgt Ion:164 Resp: 217664

Ion Ratio Lower Upper

164 100

162 106.3 87.6 131.4

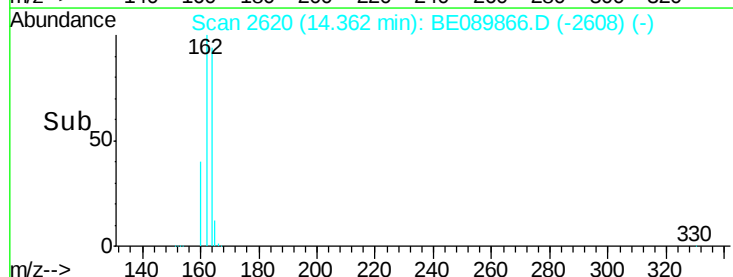
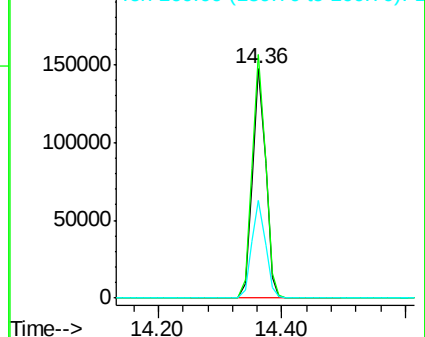
160 42.9 36.7 55.1

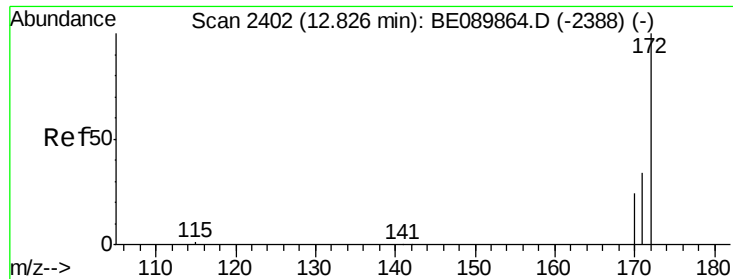


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

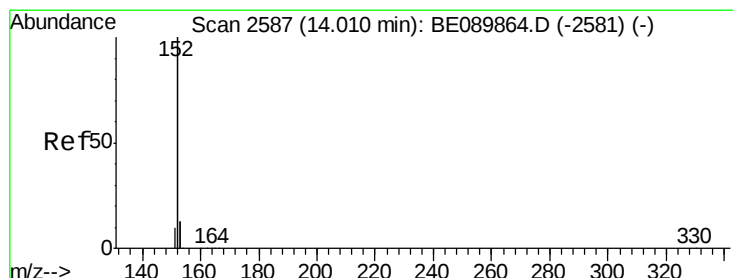
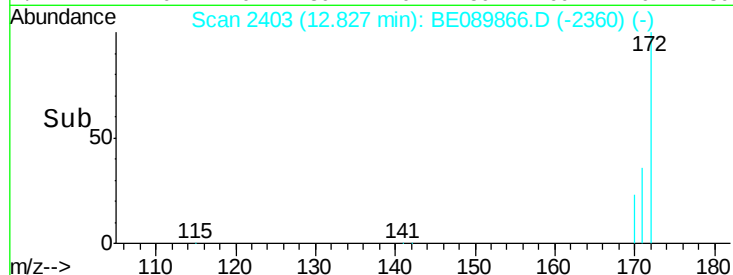
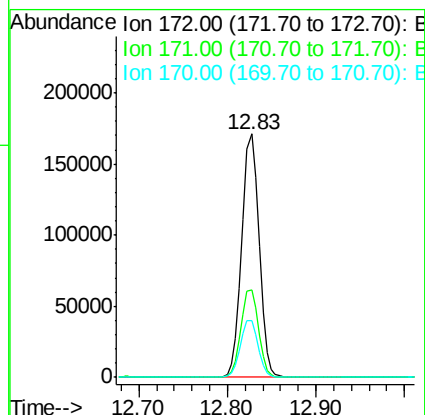
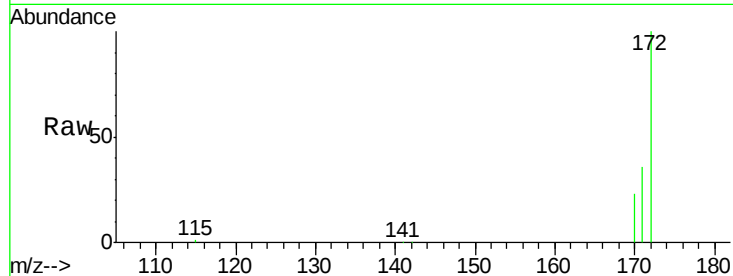




#9
2-Fluorobiphenyl
Concen: 4.51 ng
RT: 12.83 min Scan# 2403
Delta R.T. 0.00 min
Lab File: BE089866.D
Acq: 26 Mar 2015 20:53

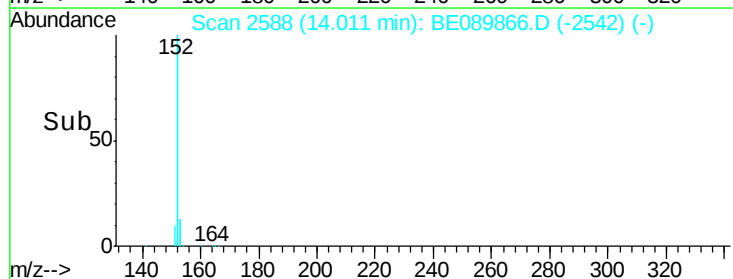
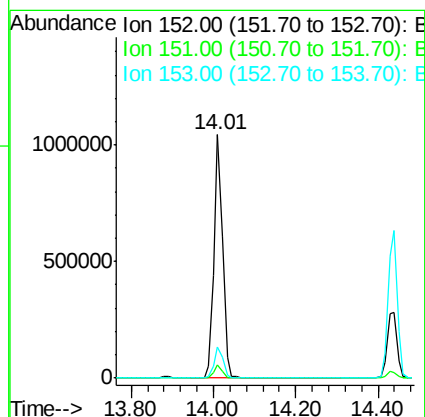
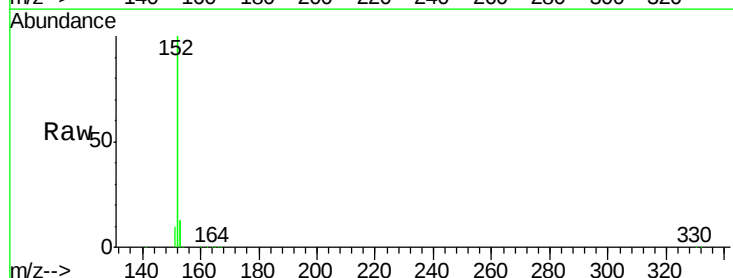
Instrument :
BNA_E
ClientSampleId :
SSTDIC005

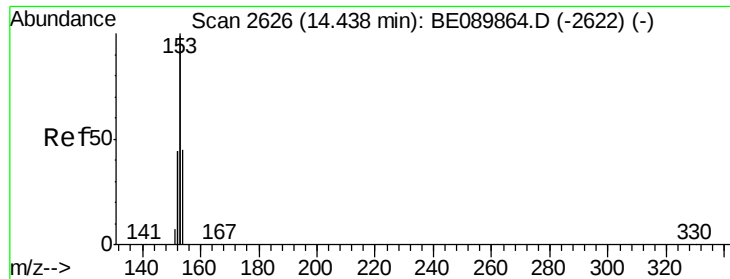
Tgt Ion:172 Resp: 232544
Ion Ratio Lower Upper
172 100
171 35.8 30.8 46.2
170 23.2 21.0 31.4



#10
Acenaphthylene
Concen: 4.71 ng
RT: 14.01 min Scan# 2588
Delta R.T. 0.00 min
Lab File: BE089866.D
Acq: 26 Mar 2015 20:53

Tgt Ion:152 Resp: 1487378
Ion Ratio Lower Upper
152 100
151 5.0 3.9 5.9
153 13.0 11.0 16.4





#11

Acenaphthene

Concen: 4.37 ng

RT: 14.44 min Scan# 2627

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

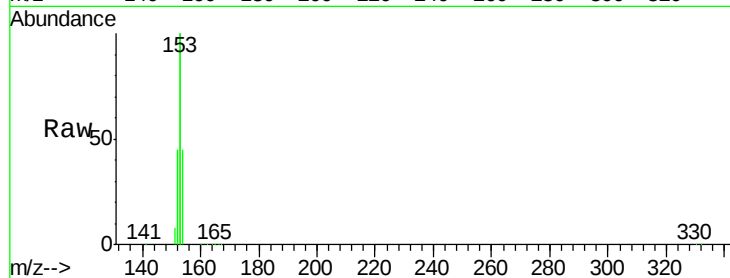
Tgt Ion:154 Resp: 210520

Ion Ratio Lower Upper

154 100

153 465.6 401.5 602.3

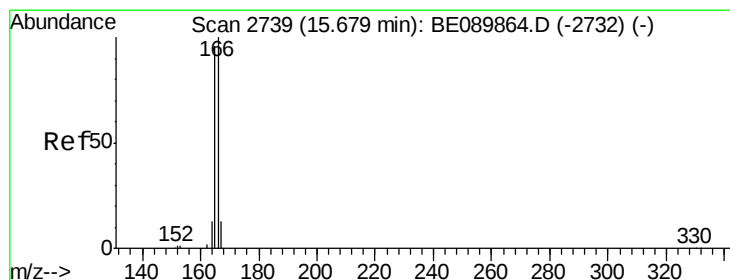
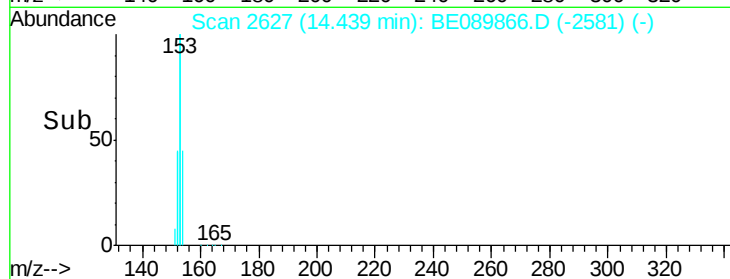
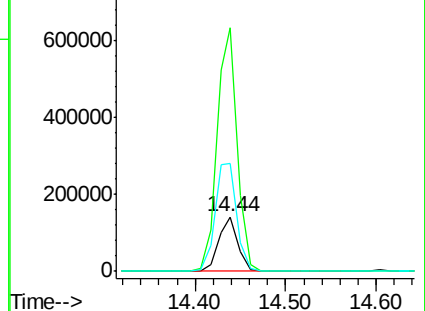
152 222.4 198.6 298.0



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: 4.57 ng

RT: 15.68 min Scan# 2740

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

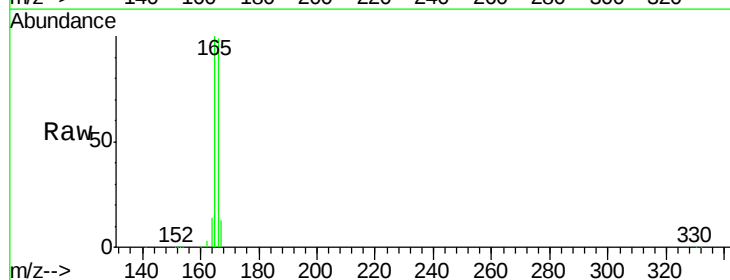
Tgt Ion:166 Resp: 269711

Ion Ratio Lower Upper

166 100

165 100.7 85.1 127.7

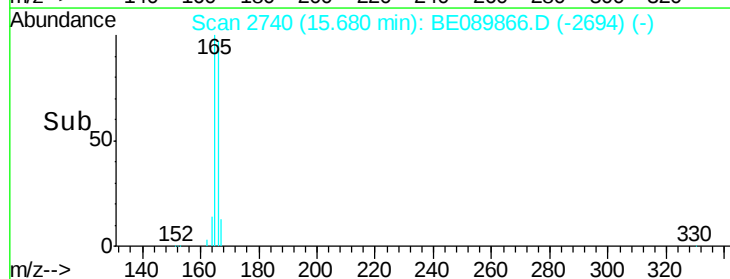
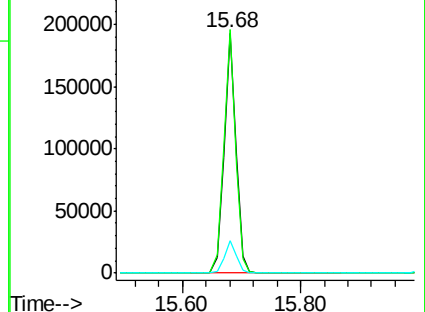
167 13.2 12.2 18.4

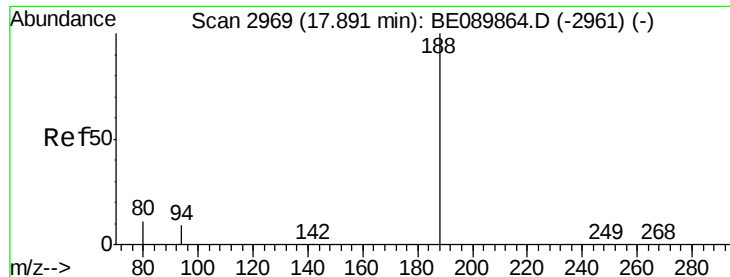


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.89 min Scan# 2970

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

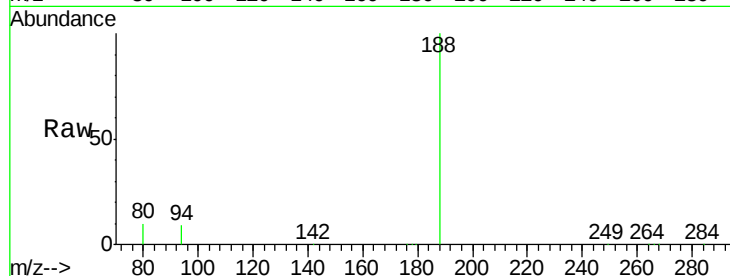
Tgt Ion:188 Resp: 404435

Ion Ratio Lower Upper

188 100

94 8.9 8.5 12.7

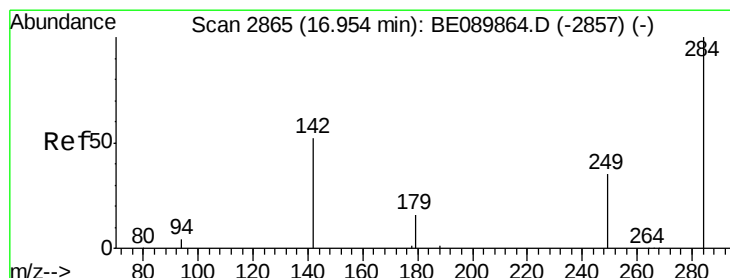
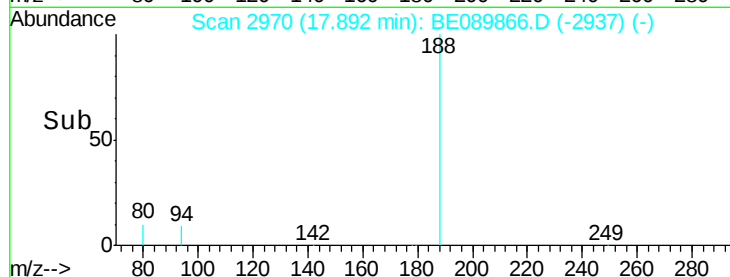
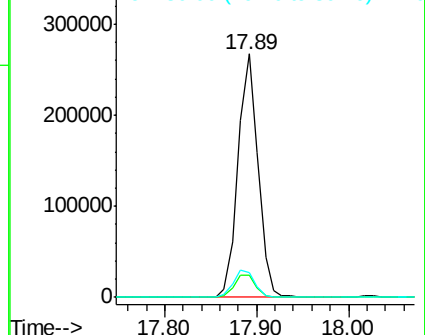
80 10.1 10.0 15.0



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: 4.15 ng

RT: 16.95 min Scan# 2866

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

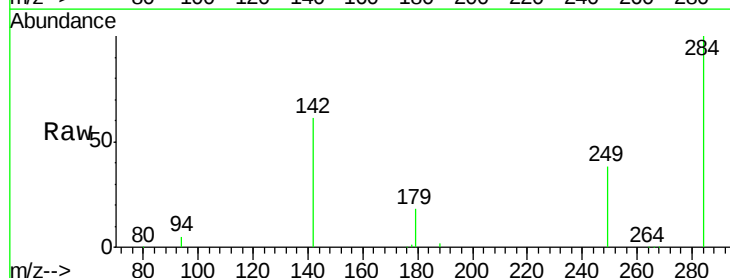
Tgt Ion:284 Resp: 55996

Ion Ratio Lower Upper

284 100

142 65.9 53.3 79.9

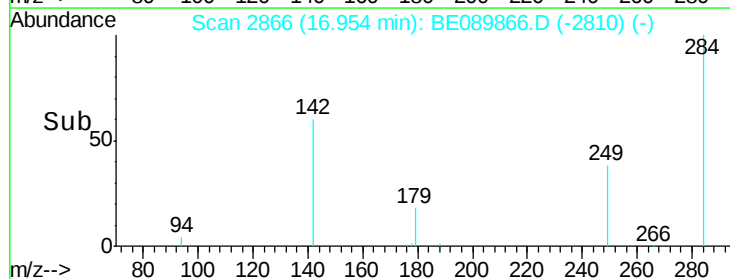
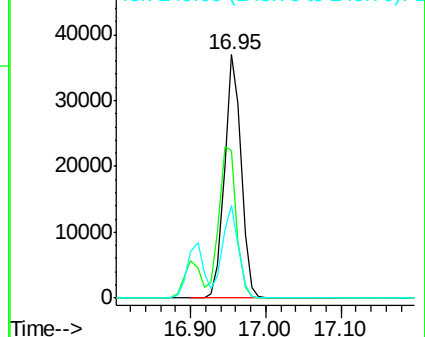
249 37.0 31.1 46.7

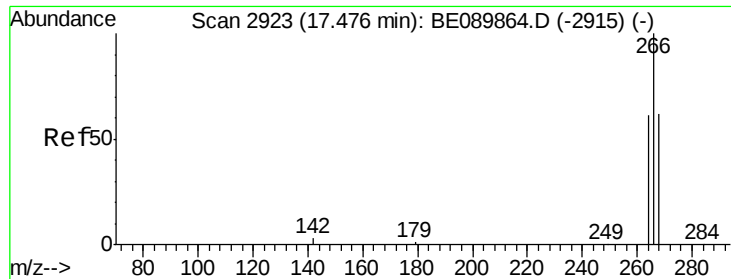


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

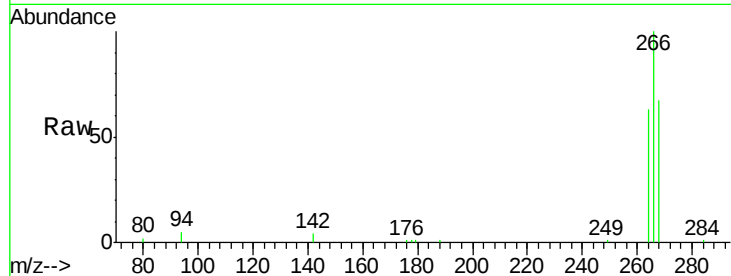




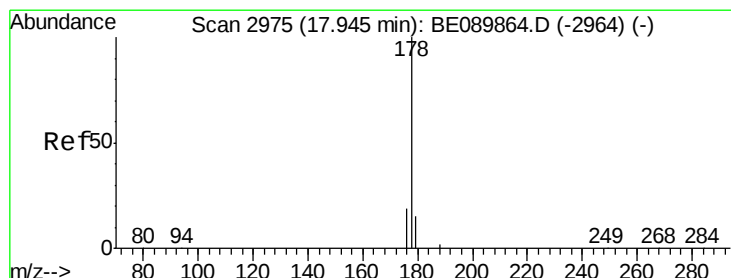
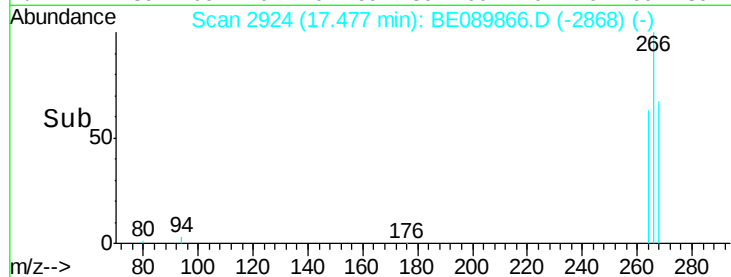
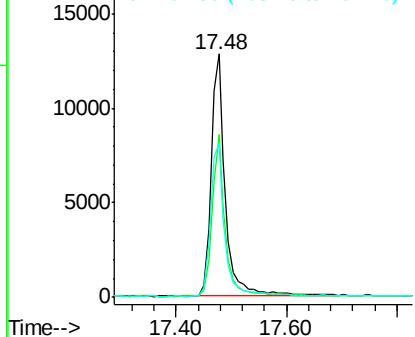
#15
 Pentachlorophenol
 Concen: 4.77 ng
 RT: 17.48 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: BE089866.D
 Acq: 26 Mar 2015 20:53

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Tgt Ion:266 Resp: 23460
 Ion Ratio Lower Upper
 266 100
 268 66.9 51.6 77.4
 264 63.2 50.2 75.2

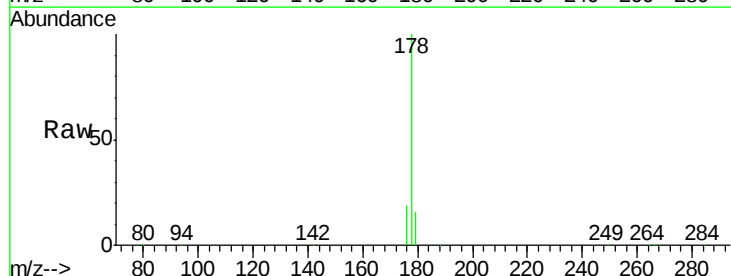


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

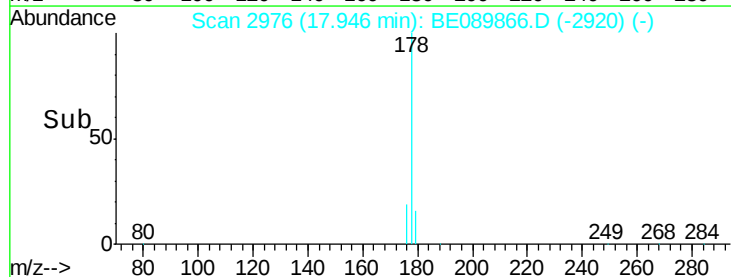
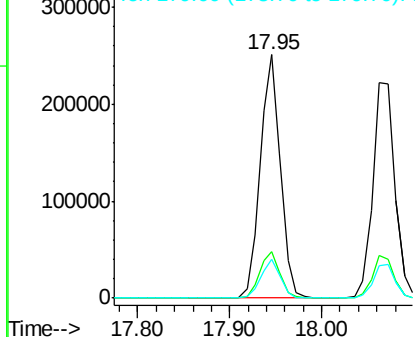


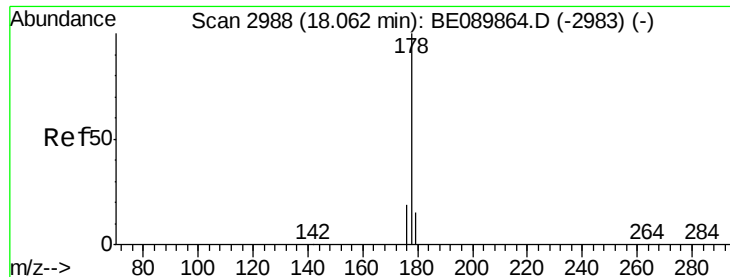
#16
 Phenanthrene
 Concen: 4.31 ng
 RT: 17.95 min Scan# 2976
 Delta R.T. 0.00 min
 Lab File: BE089866.D
 Acq: 26 Mar 2015 20:53

Tgt Ion:178 Resp: 387644
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.4 23.0
 179 15.5 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: 4.66 ng

RT: 18.06 min Scan# 2989

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

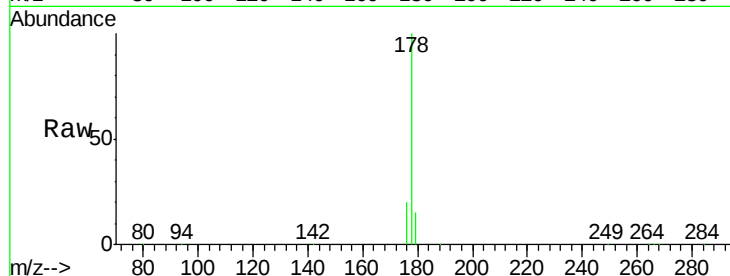
Tgt Ion:178 Resp: 374759

Ion Ratio Lower Upper

178 100

176 18.6 14.6 21.8

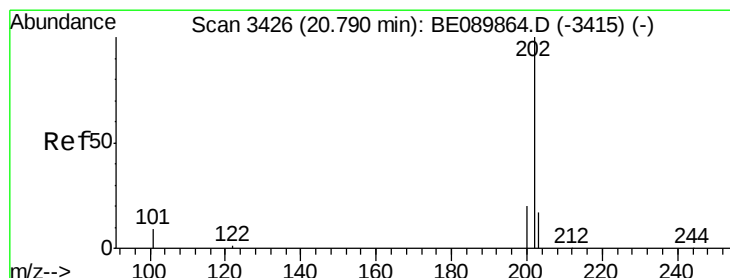
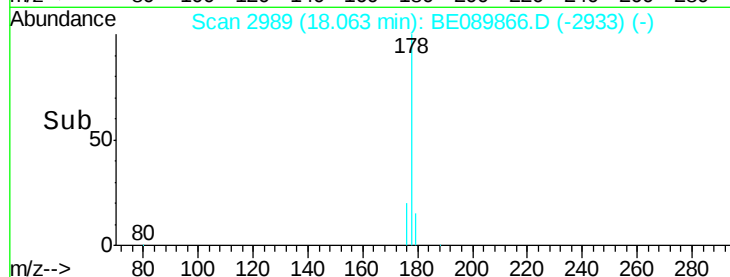
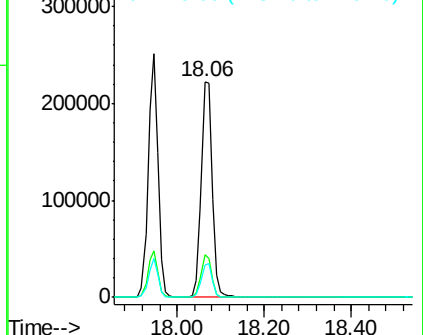
179 15.4 12.1 18.1



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: 5.01 ng

RT: 20.79 min Scan# 3427

Delta R.T. -0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

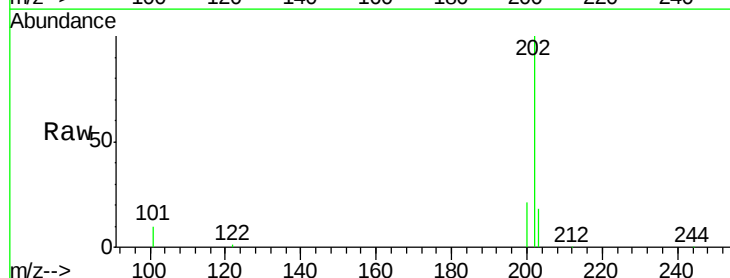
Tgt Ion:202 Resp: 413594

Ion Ratio Lower Upper

202 100

101 9.7 8.2 12.2

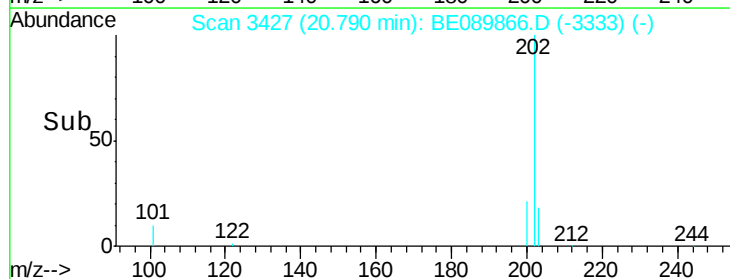
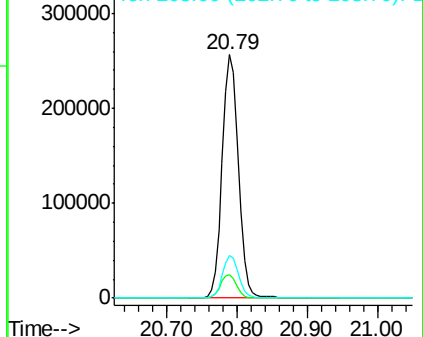
203 17.5 14.2 21.4

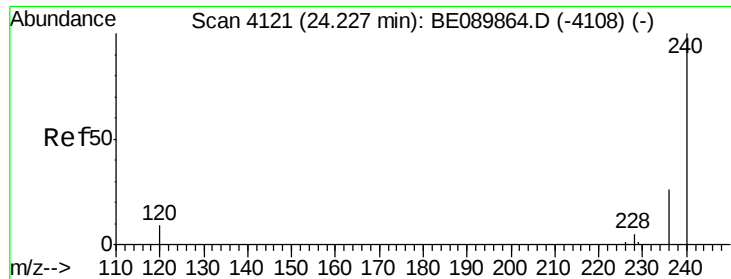


Abundance Ion 202.00 (201.70 to 202.70): E

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: 24.23 min Scan# 4122

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

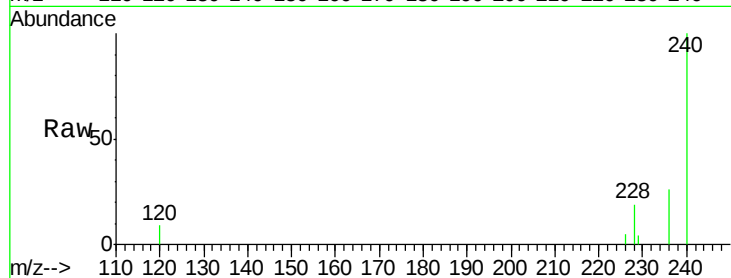
Tgt Ion:240 Resp: 421154

Ion Ratio Lower Upper

240 100

120 9.1 7.5 11.3

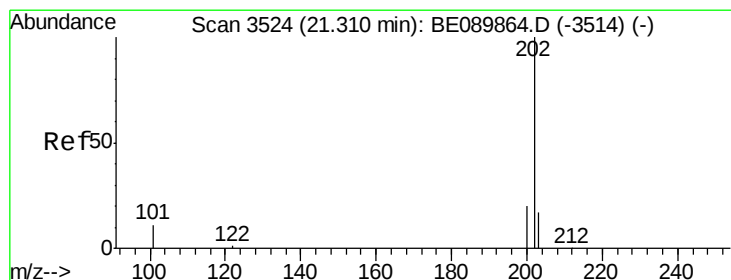
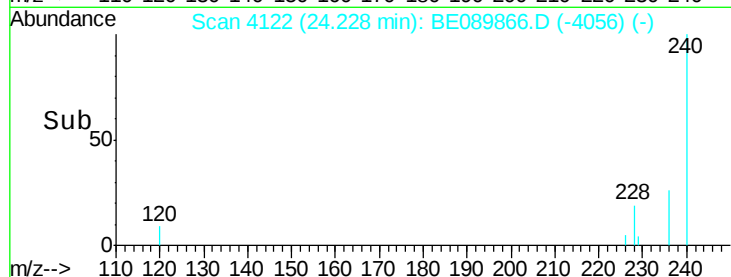
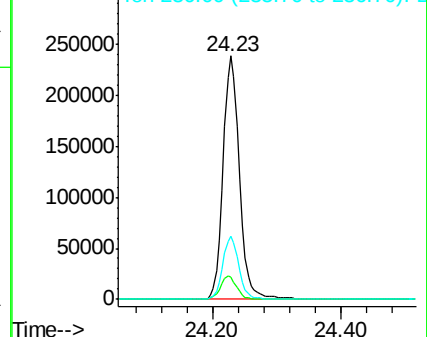
236 25.7 20.5 30.7



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: 4.06 ng

RT: 21.31 min Scan# 3525

Delta R.T. -0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

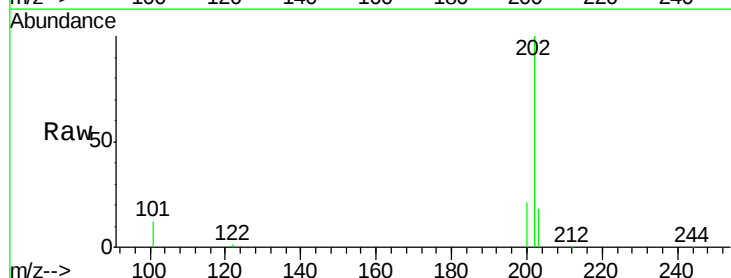
Tgt Ion:202 Resp: 432647

Ion Ratio Lower Upper

202 100

200 21.1 15.9 23.9

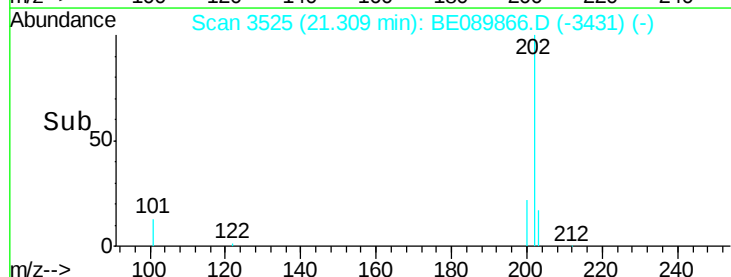
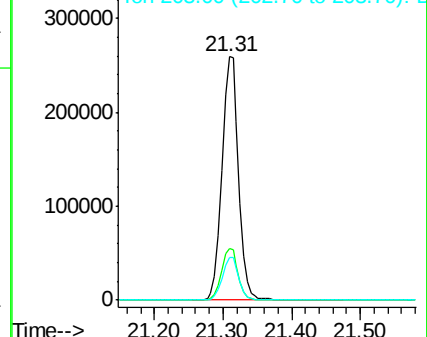
203 17.5 13.6 20.4

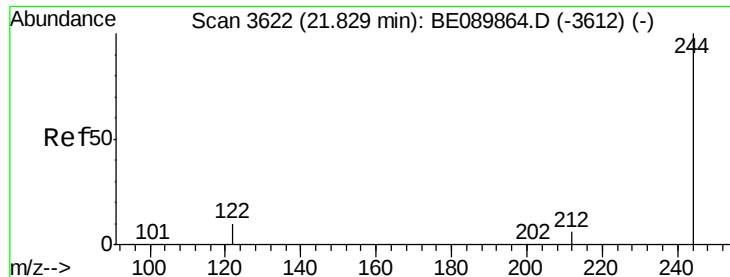


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

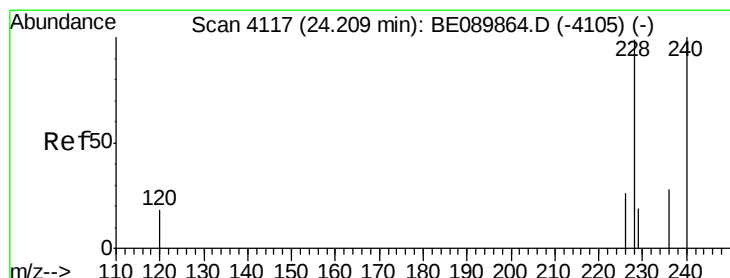
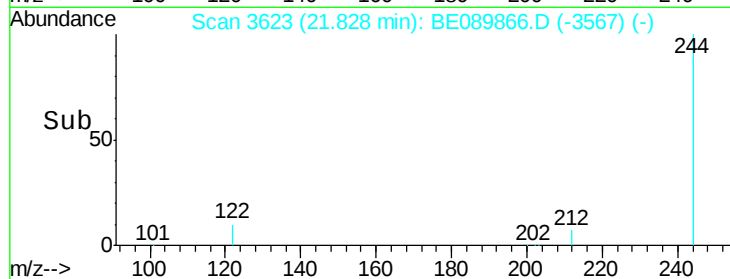
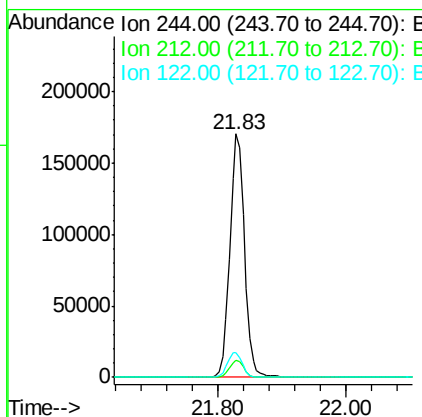
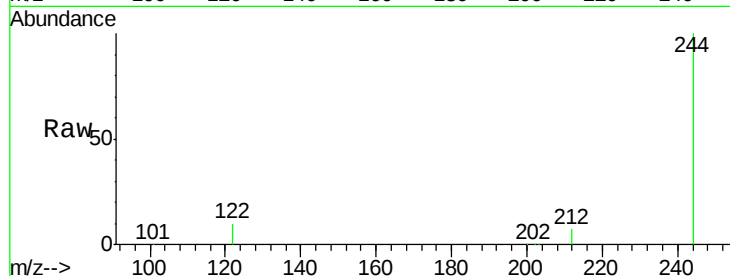




#21
 Terphenyl-d14
 Concen: 4.32 ng
 RT: 21.83 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: BE089866.D
 Acq: 26 Mar 2015 20:53

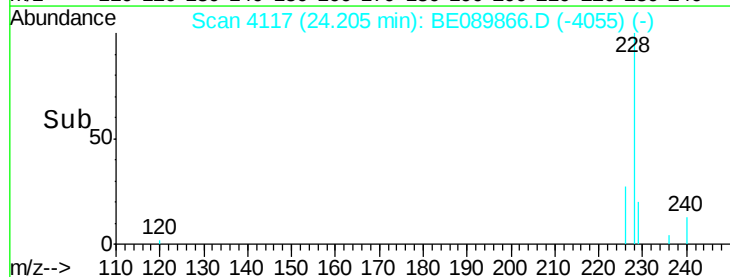
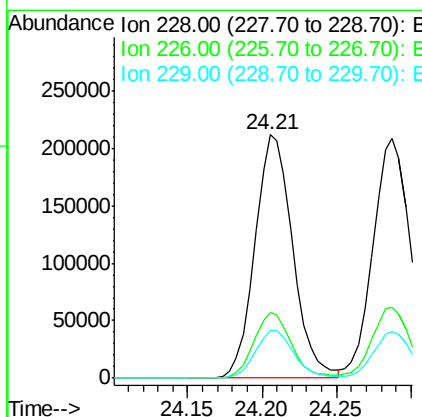
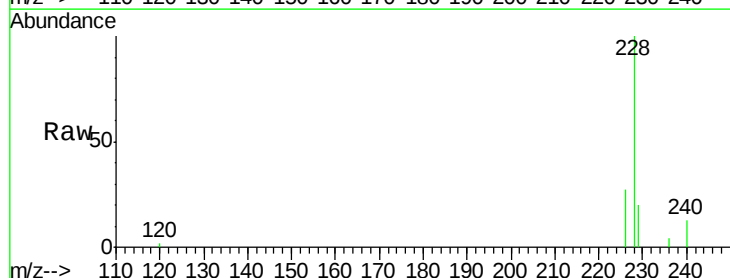
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

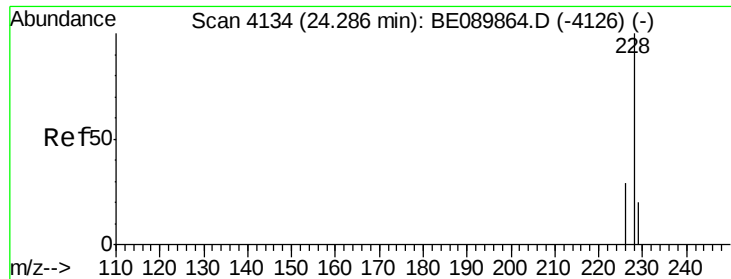
Tgt Ion: 244 Resp: 269803
 Ion Ratio Lower Upper
 244 100
 212 7.0 7.3 10.9#
 122 10.2 10.5 15.7#



#22
 Benzo(a)anthracene
 Concen: 4.66 ng
 RT: 24.21 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: BE089866.D
 Acq: 26 Mar 2015 20:53

Tgt Ion: 228 Resp: 374419
 Ion Ratio Lower Upper
 228 100
 226 27.2 19.8 29.8
 229 19.9 16.3 24.5





#23

Chrysene

Concen: 4.42 ng

RT: 24.29 min Scan# 4135

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

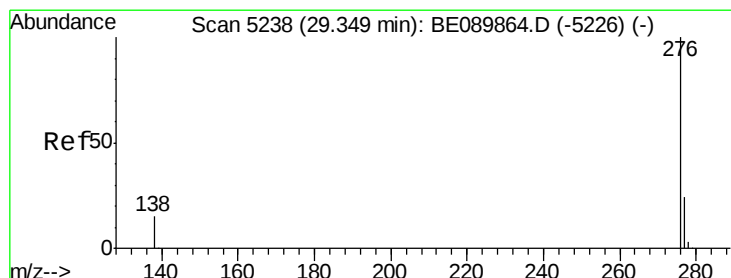
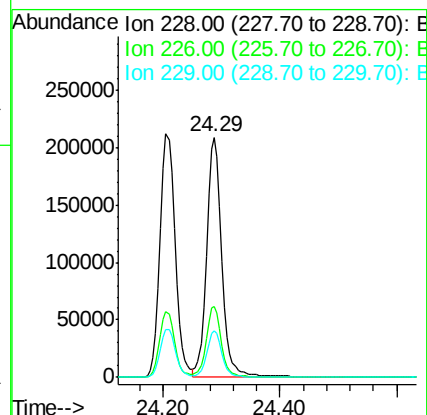
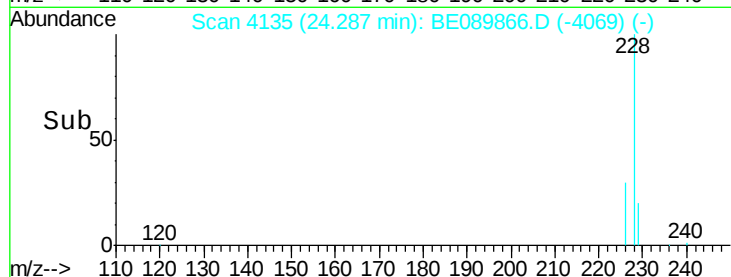
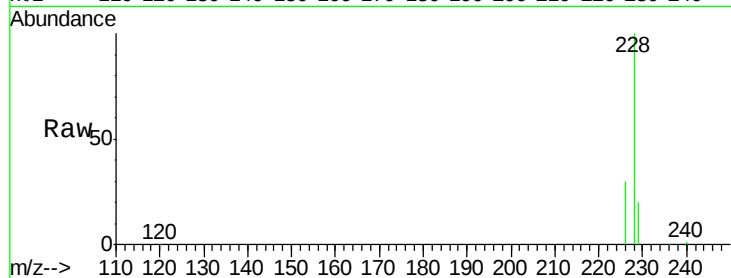
Tgt Ion:228 Resp: 383430

Ion Ratio Lower Upper

228 100

226 29.6 23.0 34.4

229 19.6 15.8 23.6



#24

Indeno(1,2,3-cd)pyrene

Concen: 6.88 ng m

RT: 29.35 min Scan# 5240

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

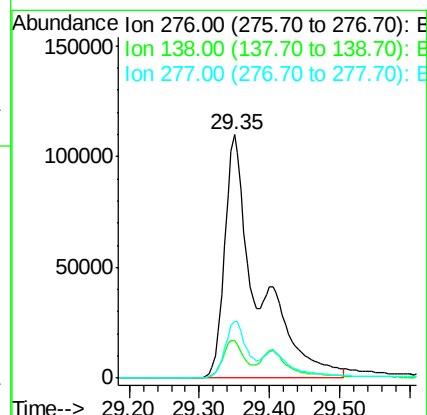
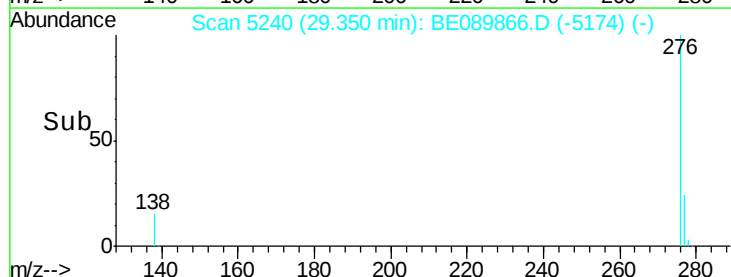
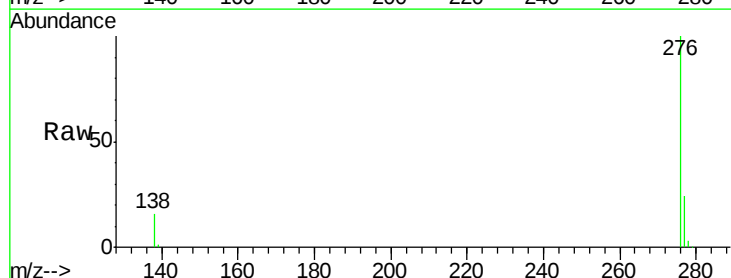
Tgt Ion:276 Resp: 359434

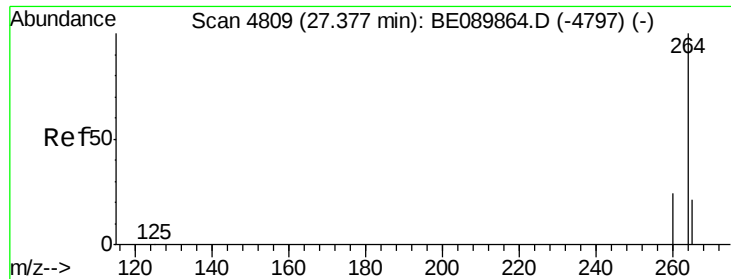
Ion Ratio Lower Upper

276 100

138 10.1 4.3 6.5#

277 15.2 9.0 13.4#





#25

Perylene-d12

Concen: 5.00 ng

RT: 27.38 min Scan# 4810

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

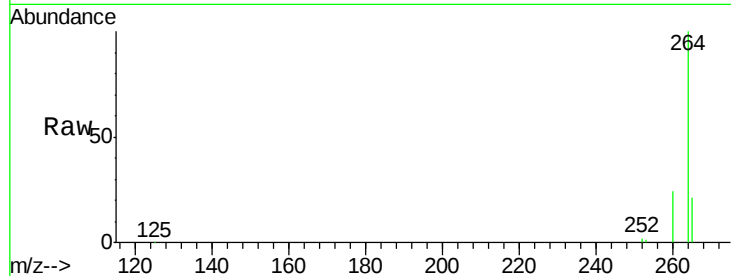
Tgt Ion:264 Resp: 377578

Ion Ratio Lower Upper

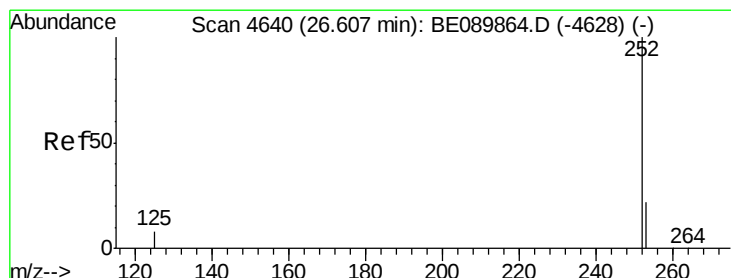
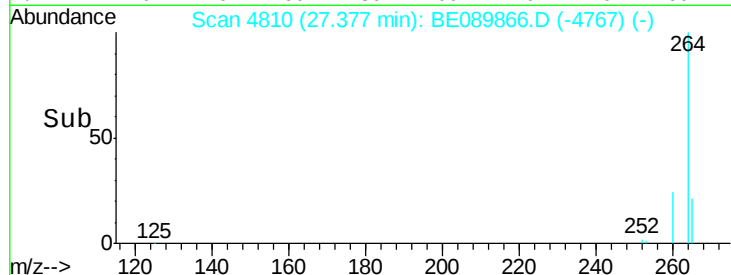
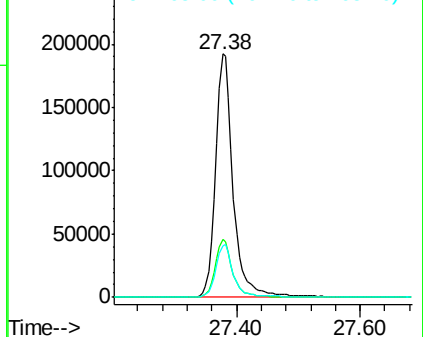
264 100

260 23.8 18.2 27.2

265 21.3 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#26

Benzo(b)fluoranthene

Concen: 5.69 ng

RT: 26.60 min Scan# 4640

Delta R.T. -0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

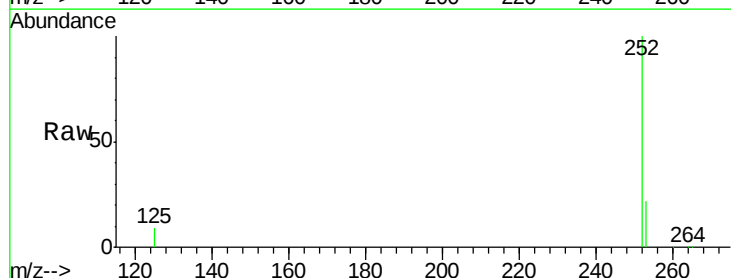
Tgt Ion:252 Resp: 346026

Ion Ratio Lower Upper

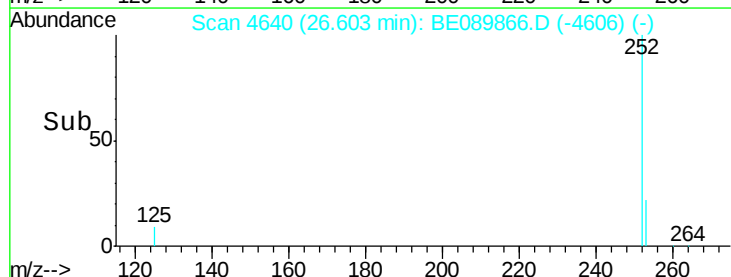
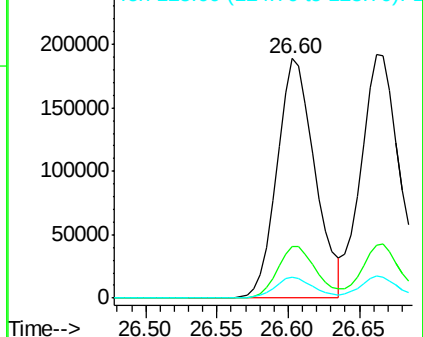
252 100

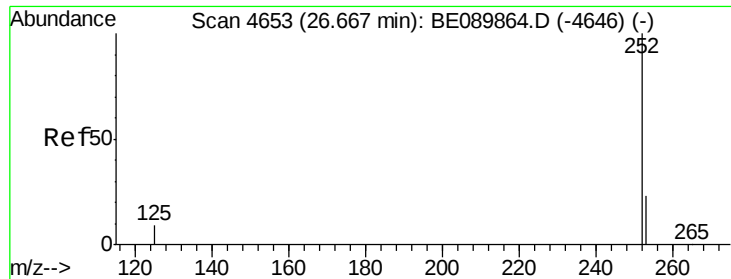
253 21.7 17.8 26.6

125 9.0 8.7 13.1



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#27

Benzo(k)fluoranthene

Concen: 5.00 ng

RT: 26.66 min Scan# 4653

Delta R.T. -0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

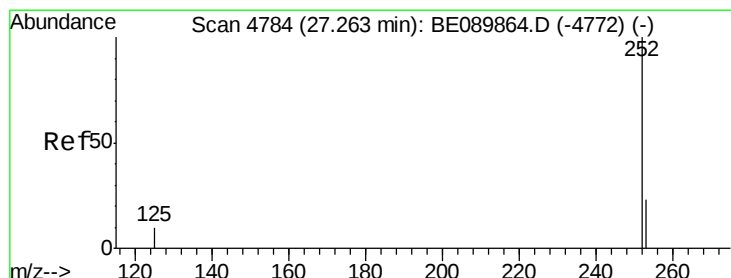
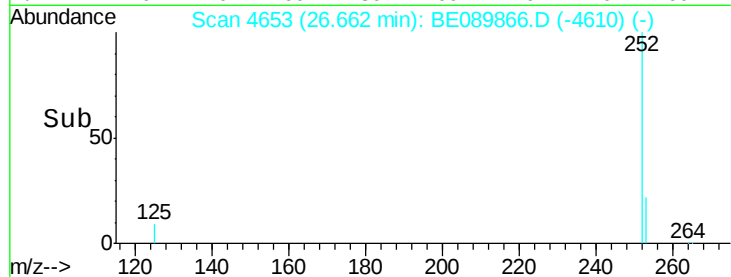
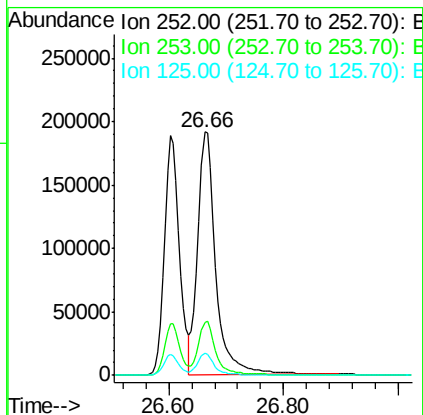
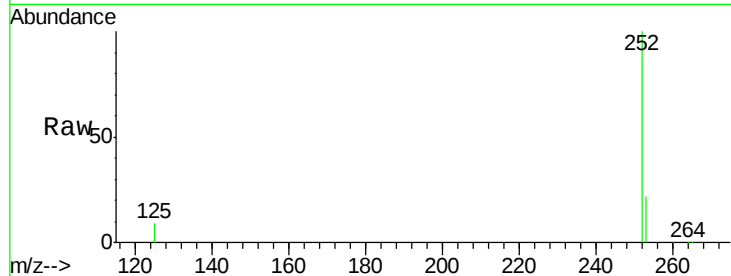
BNA_E

ClientSampleId :

SSTDIC005

Tgt Ion:252 Resp: 408175

Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.6	28.0
125	9.0	10.8	16.2#



#28

Benzo(a)pyrene

Concen: 5.61 ng

RT: 27.26 min Scan# 4785

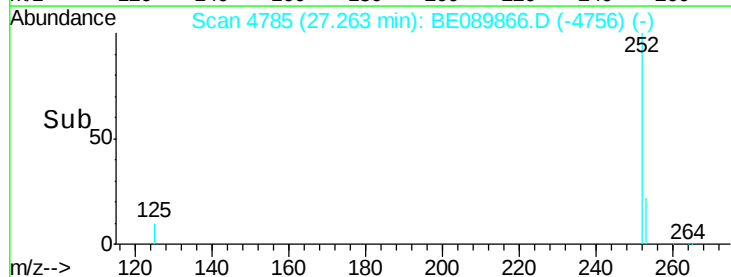
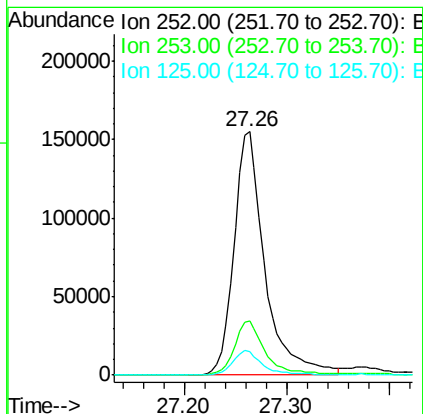
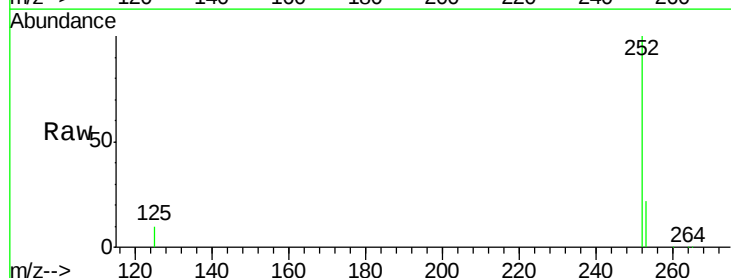
Delta R.T. 0.00 min

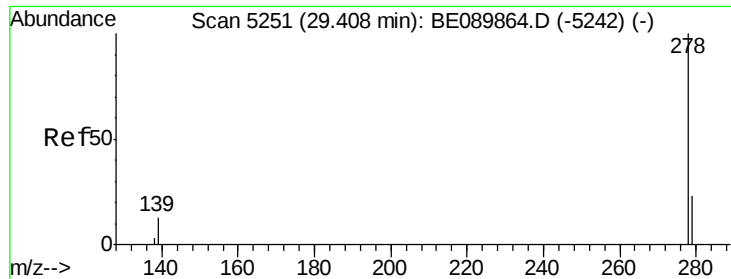
Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Tgt Ion:252 Resp: 320525

Ion	Ratio	Lower	Upper
252	100		
253	22.2	21.0	31.4
125	9.9	13.3	19.9#





#29

Dibenzo(a,h)anthracene

Concen: 6.81 ng

RT: 29.41 min Scan# 5253

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

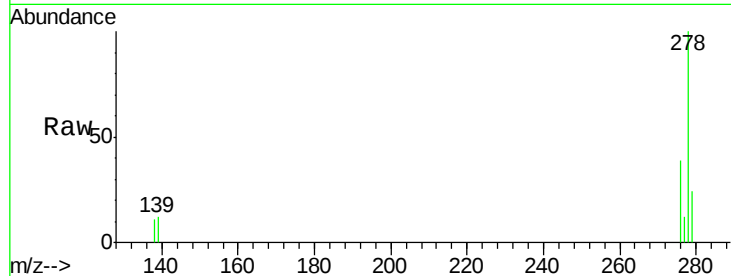
Tgt Ion: 278 Resp: 280352

Ion Ratio Lower Upper

278 100

139 12.2 20.0 30.0#

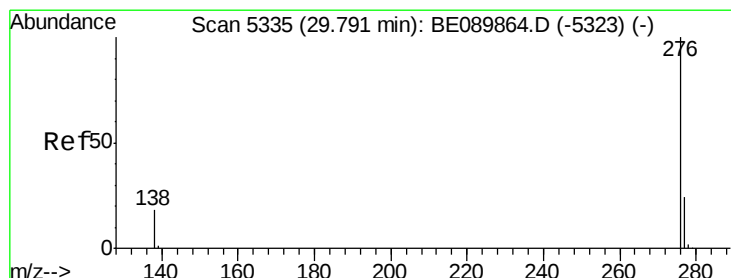
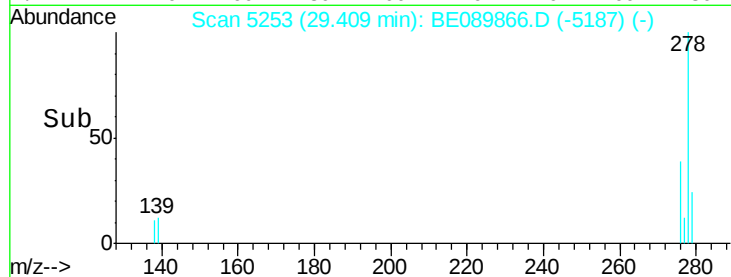
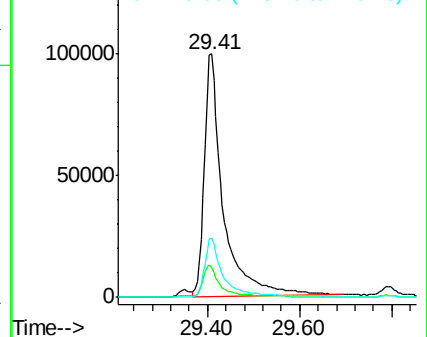
279 24.1 28.9 43.3#



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: 5.39 ng

RT: 29.79 min Scan# 5337

Delta R.T. 0.00 min

Lab File: BE089866.D

Acq: 26 Mar 2015 20:53

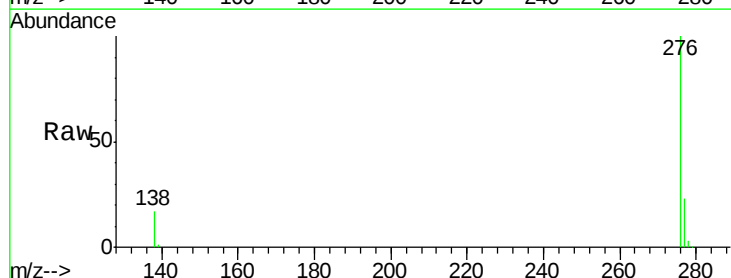
Tgt Ion: 276 Resp: 315496

Ion Ratio Lower Upper

276 100

277 23.5 19.2 28.8

138 16.6 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

