

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE062915\
 Data File : BE090000.D
 Acq On : 30 Jun 2015 3:32
 Operator : TP/IZ
 Sample : G2810-17
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0680624-150625

Quant Time: Jun 30 07:18:48 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 30 07:01:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	21479	5.00	ng	0.00
6) Naphthalene-d8	10.38	136	99484	5.00	ng	0.00
12) Acenaphthene-d10	14.23	164	60545	5.00	ng	0.00
18) Phenanthrene-d10	16.98	188	139285	5.00	ng	0.00
25) Chrysene-d12	21.13	240	157295	5.00	ng	0.00
32) Perylene-d12	23.46	264	149447	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.25	112	38717	7.85	ng	0.00
5) Phenol-d6	6.80	99	60318	8.73	ng	0.00
7) Nitrobenzene-d5	8.76	82	36590	4.63	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	16541	9.32	ng	0.00
14) 2-Fluorobiphenyl	12.86	172	86193	4.74	ng	0.00
27) Terphenyl-d14	19.59	244	129299	4.93	ng	0.00

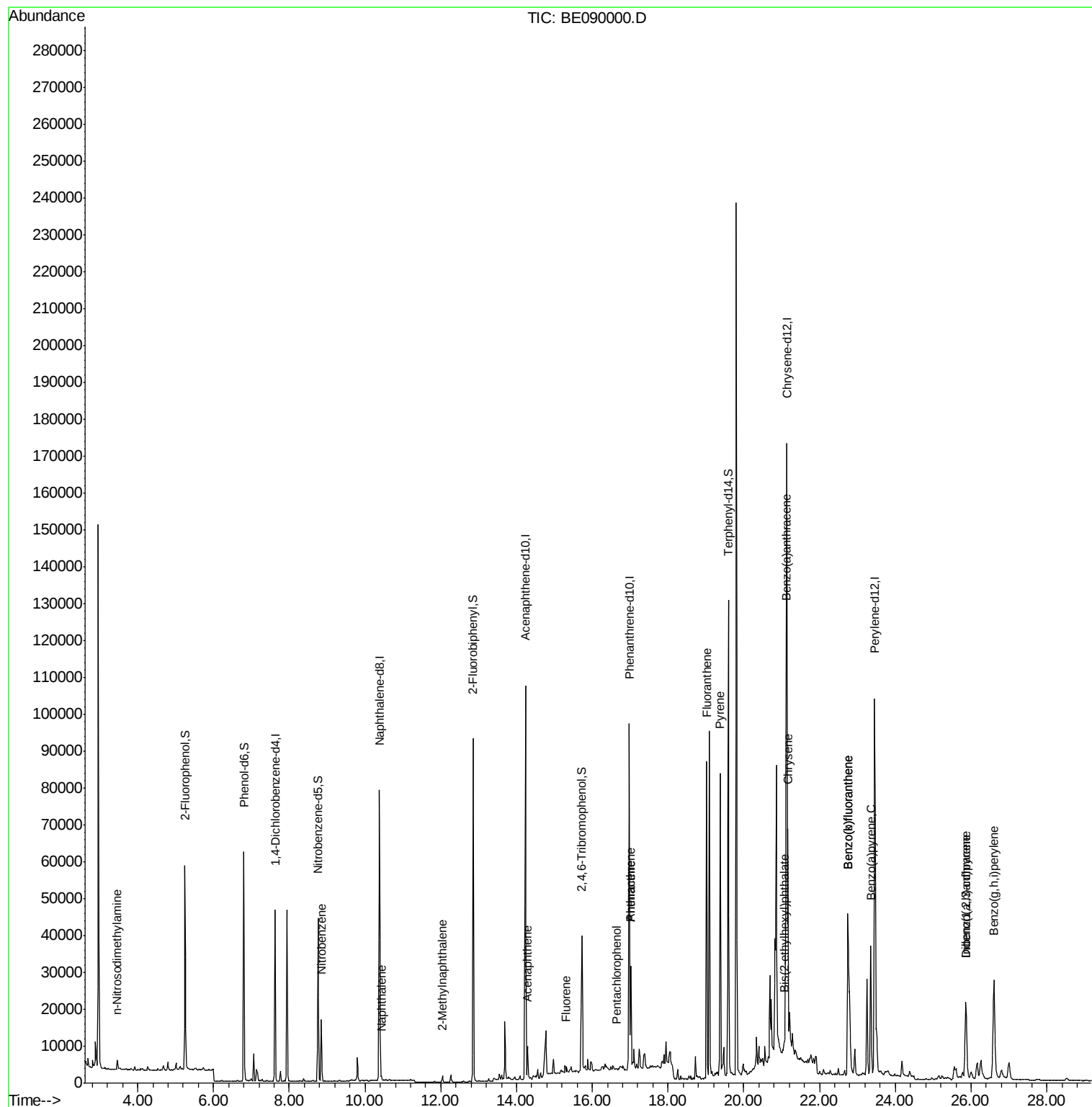
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.46	42	769	0.19	ng	# 1
8) Nitrobenzene	8.85	77	5882	0.70	ng	# 27
9) Naphthalene	10.43	128	1316	0.06	ng	# 87
11) 2-Methylnaphthalene	12.04	142	1213	0.08	ng	96
16) Acenaphthene	14.29	154	1498	0.10	ng	85
17) Fluorene	15.29	166	1832	0.09	ng	# 89
21) Pentachlorophenol	16.63	266	93	0.29	ng	# 66
22) Phenanthrene	17.01	178	29106	0.82	ng	98
23) Anthracene	17.01	178	28865	0.88	ng	99
24) Fluoranthene	19.02	202	76656	1.92	ng	99
26) Pyrene	19.38	202	71313	1.90	ng	# 96
28) Benzo(a)anthracene	21.11	228	49822	1.27	ng	97
29) Chrysene	21.17	228	57774	1.42	ng	97
30) Bis(2-ethylhexyl)phthalate	21.07	149	4963	0.56	ng	# 55
31) Indeno(1,2,3-cd)pyrene	25.86	276	36224	0.93	ng	96
33) Benzo(b)fluoranthene	22.75	252	73165	2.22	ng	# 96
34) Benzo(k)fluoranthene	22.75	252	73165	1.99	ng	96
35) Benzo(a)pyrene	23.35	252	51166	1.68	ng	97
36) Dibenzo(a,h)anthracene	25.87	278	9042	0.29	ng	# 85
37) Benzo(g,h,i)perylene	26.61	276	40797	1.29	ng	# 79

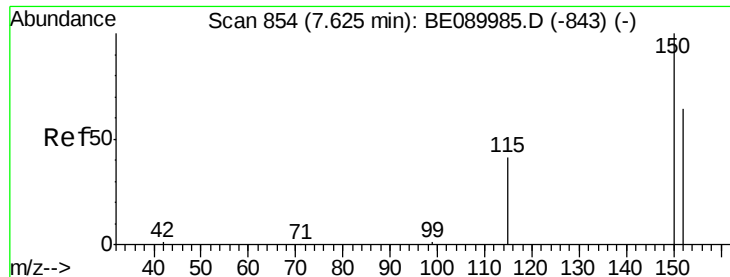
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE062915\
Data File : BE090000.D
Acq On : 30 Jun 2015 3:32
Operator : TP/IZ
Sample : G2810-17
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
X1SS0680624-150625

Quant Time: Jun 30 07:18:48 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 30 07:01:01 2015
Response via : Initial Calibration



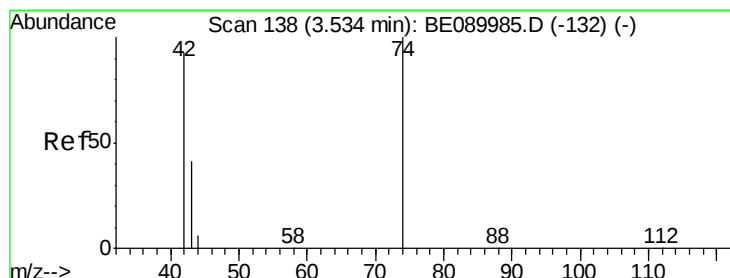
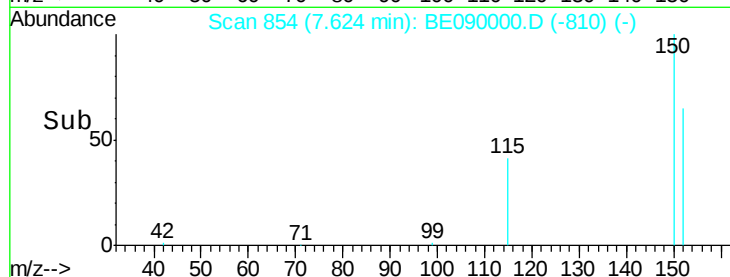
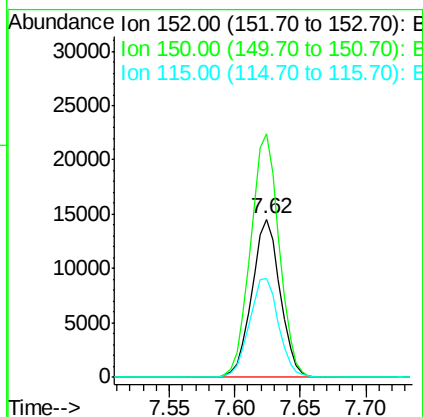
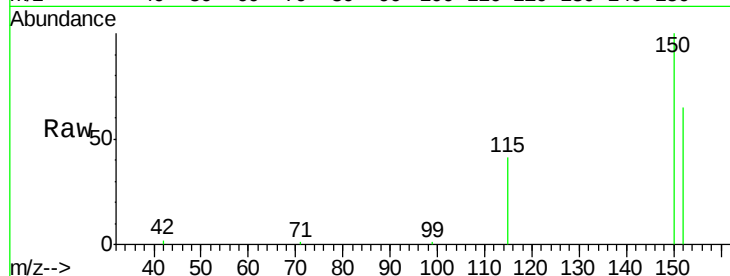


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.62 min Scan# 854
Delta R.T. -0.00 min
Lab File: BE090000.D
Acq: 30 Jun 2015 3:32

Instrument :
BNA_E
ClientSampleId :
X1SS0680624-150625

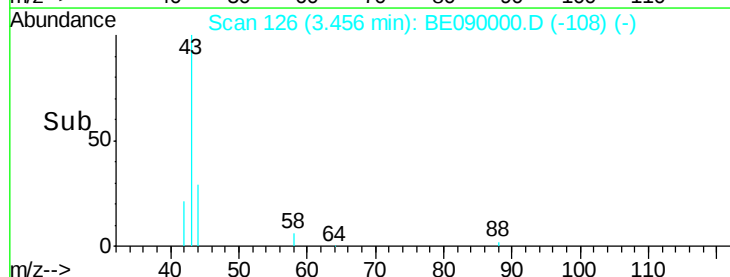
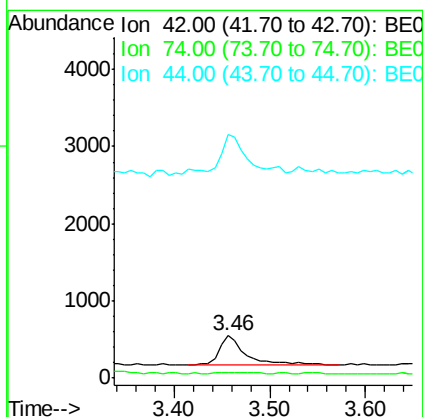
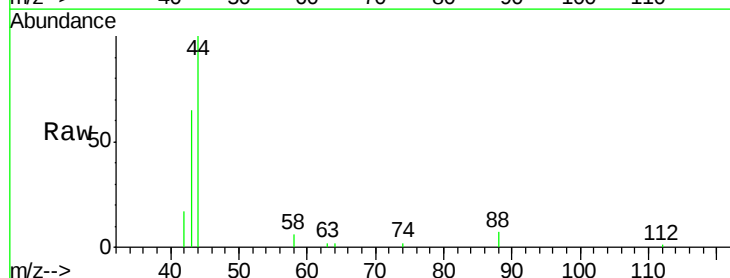
Tgt Ion:152 Resp: 21479
Ion Ratio Lower Upper
152 100
150 153.8 123.9 185.9
115 62.8 50.6 76.0

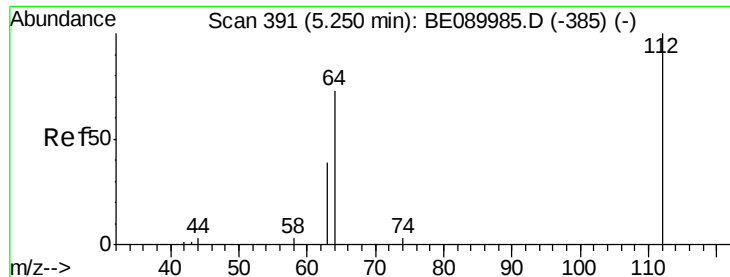


#3

n-Nitrosodimethylamine
Concen: 0.19 ng
RT: 3.46 min Scan# 126
Delta R.T. -0.08 min
Lab File: BE090000.D
Acq: 30 Jun 2015 3:32

Tgt Ion: 42 Resp: 769
Ion Ratio Lower Upper
42 100
74 4.6 89.4 134.2#
44 142.7 6.9 10.3#





#4

2-Fluorophenol

Concen: 7.85 ng

RT: 5.25 min Scan# 391

Delta R.T. 0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

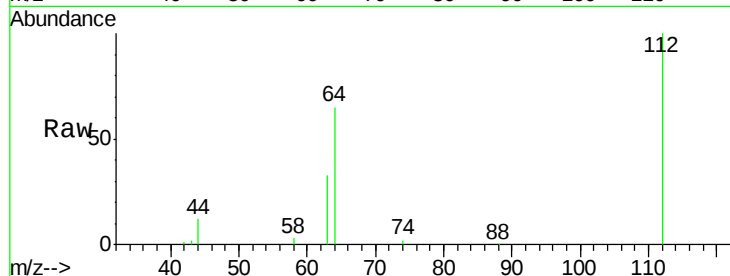
Tgt Ion: 112 Resp: 38717

Ion Ratio Lower Upper

112 100

64 71.4 56.3 84.5

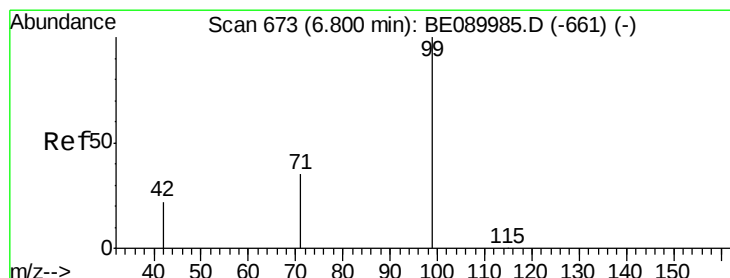
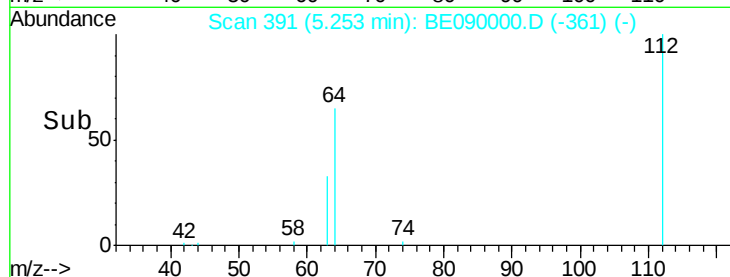
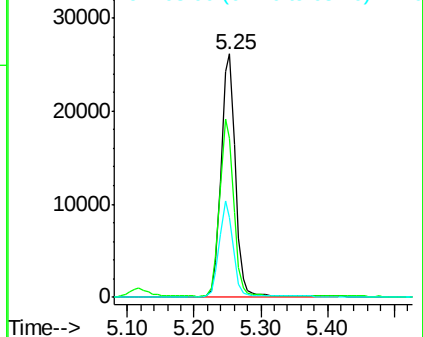
63 38.0 29.8 44.6



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 8.73 ng

RT: 6.80 min Scan# 673

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

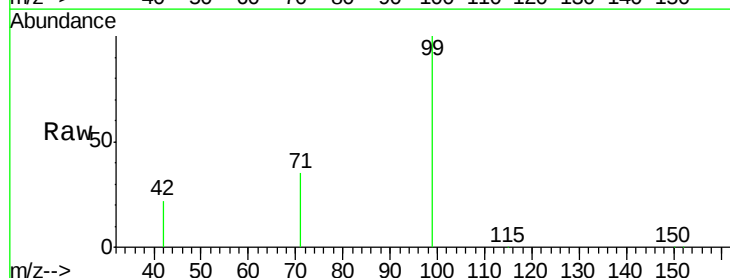
Tgt Ion: 99 Resp: 60318

Ion Ratio Lower Upper

99 100

42 22.0 18.7 28.1

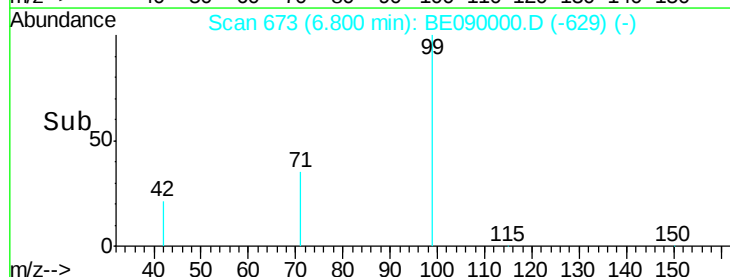
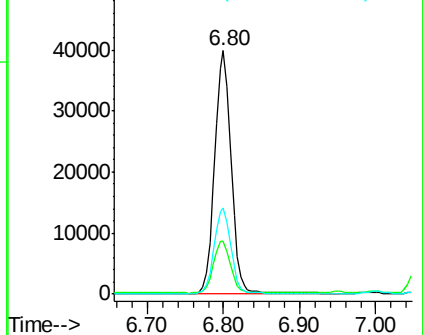
71 35.6 27.5 41.3

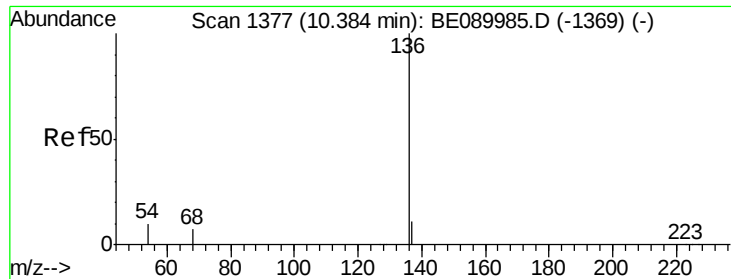


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.38 min Scan# 1376

Delta R.T. -0.01 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

Tgt Ion: 136 Resp: 99484

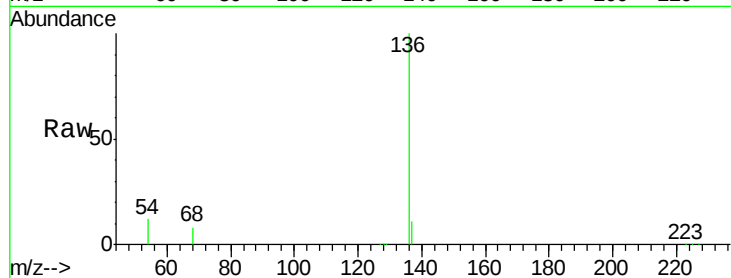
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 12.3 8.2 12.4

68 8.4 5.8 8.8

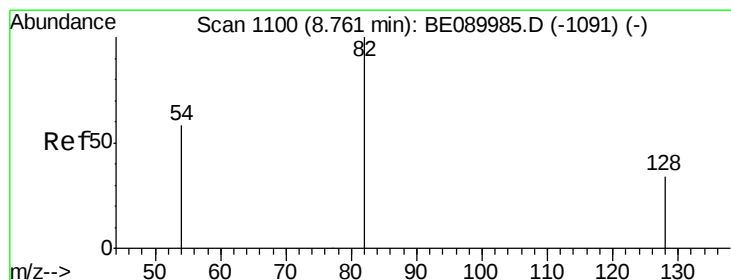
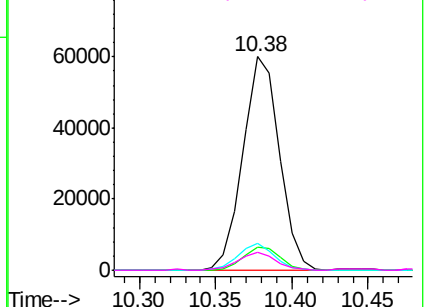
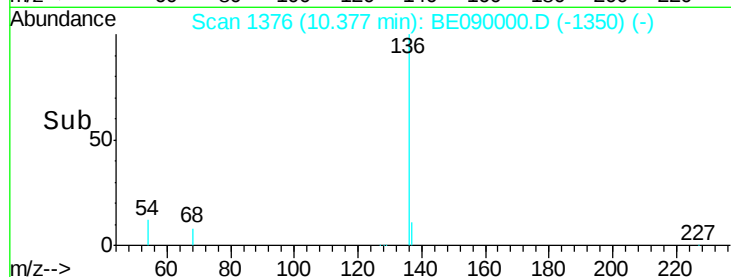


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#7

Nitrobenzene-d5

Concen: 4.63 ng

RT: 8.76 min Scan# 1099

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

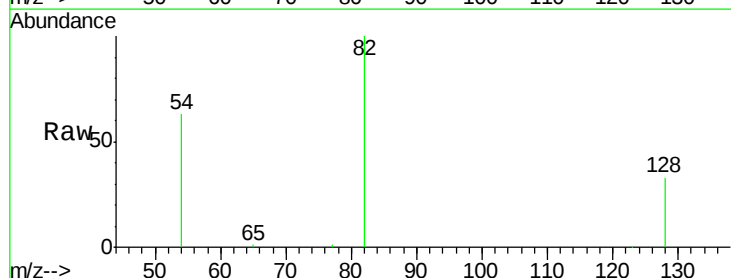
Tgt Ion: 82 Resp: 36590

Ion Ratio Lower Upper

82 100

128 33.0 28.0 42.0

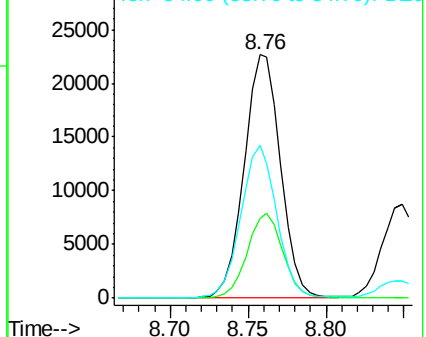
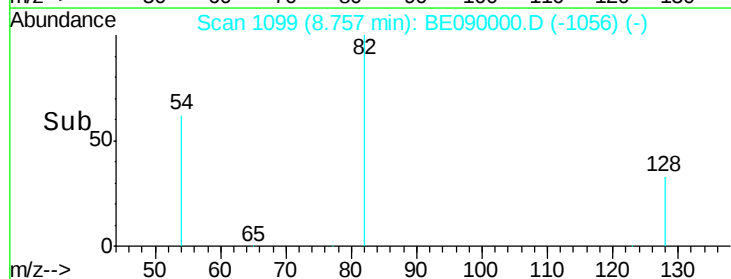
54 62.5 47.6 71.4

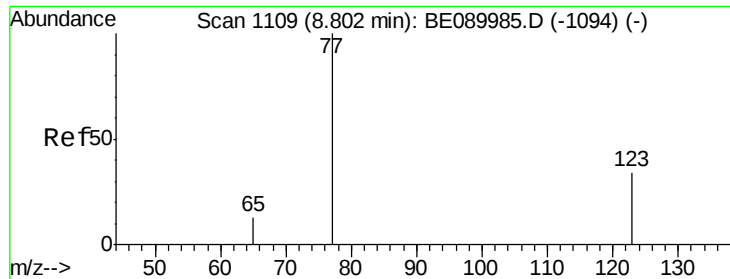


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Nitrobenzene

Concen: 0.70 ng

RT: 8.85 min Scan# 1119

Delta R.T. 0.05 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

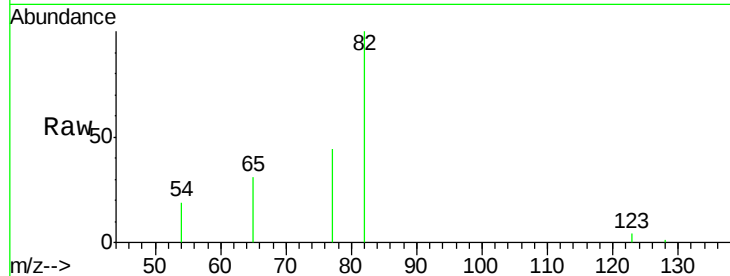
Tgt Ion: 77 Resp: 5882

Ion Ratio Lower Upper

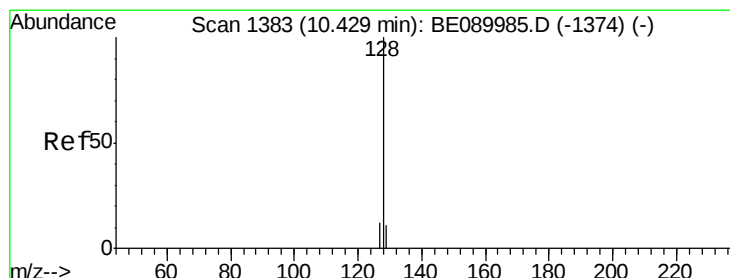
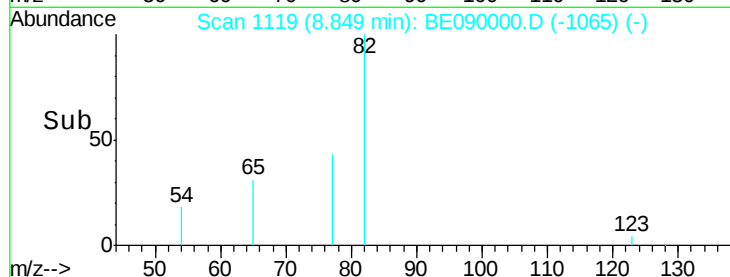
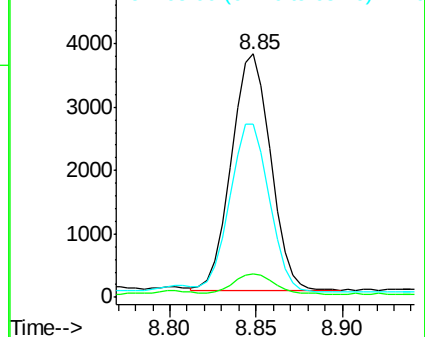
77 100

123 8.6 27.4 41.0#

65 72.5 10.6 15.8#



Abundance Ion 77.00 (76.70 to 77.70): BE0
Ion 123.00 (122.70 to 123.70): BE0
Ion 65.00 (64.70 to 65.70): BE0



#9

Naphthalene

Concen: 0.06 ng

RT: 10.43 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

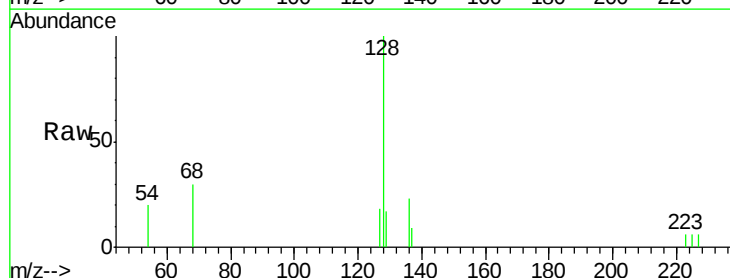
Tgt Ion: 128 Resp: 1316

Ion Ratio Lower Upper

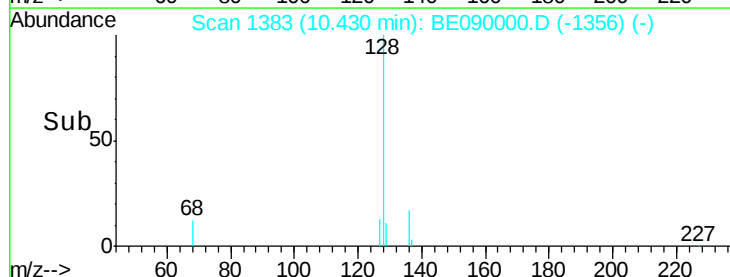
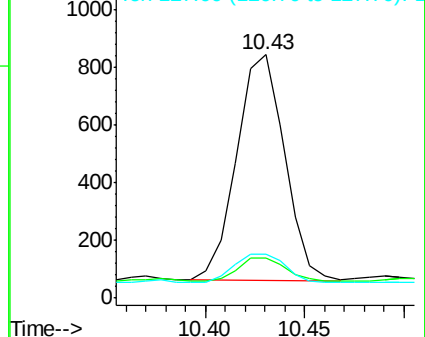
128 100

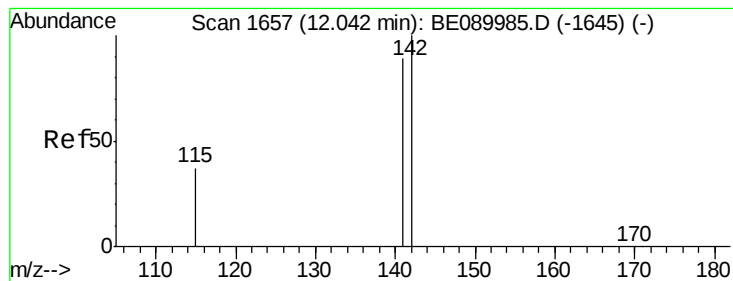
129 16.7 9.3 13.9#

127 18.0 10.2 15.4#



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





#11

2-Methylnaphthalene

Concen: 0.08 ng

RT: 12.04 min Scan# 1657

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

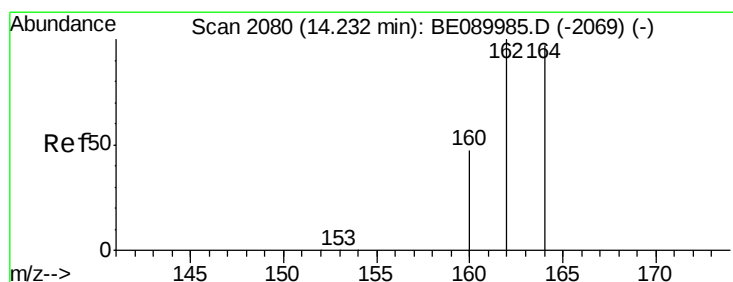
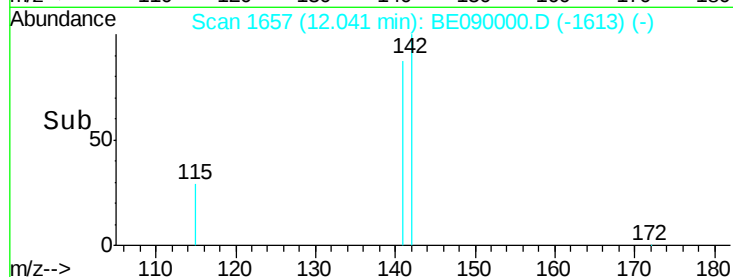
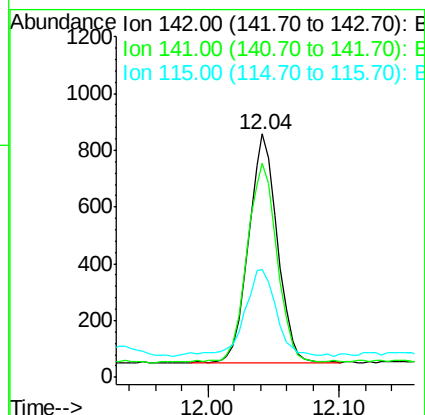
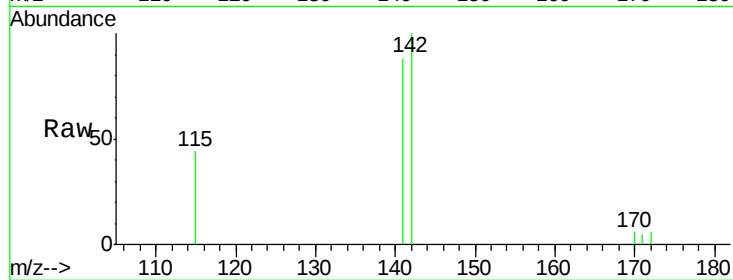
Tgt Ion:142 Resp: 1213

Ion Ratio Lower Upper

142 100

141 88.0 71.3 106.9

115 44.4 30.4 45.6



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.23 min Scan# 2080

Delta R.T. 0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

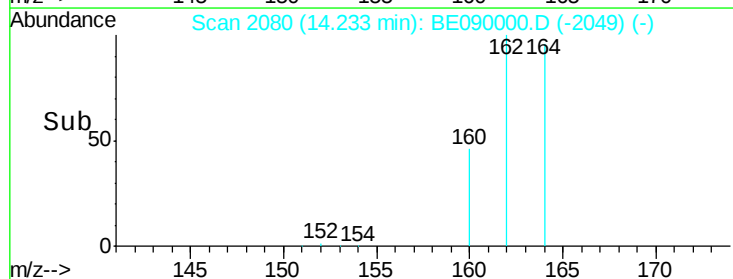
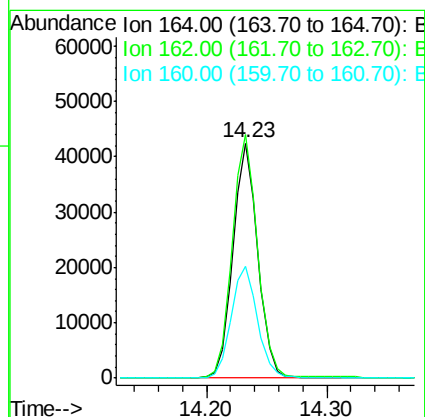
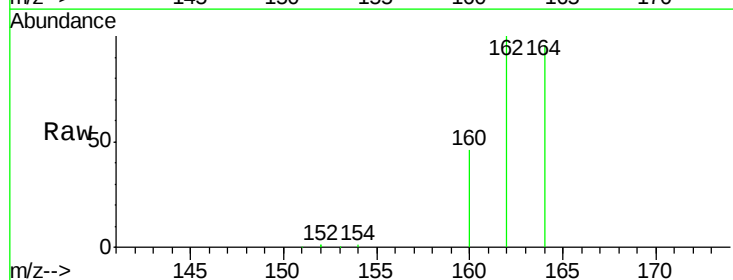
Tgt Ion:164 Resp: 60545

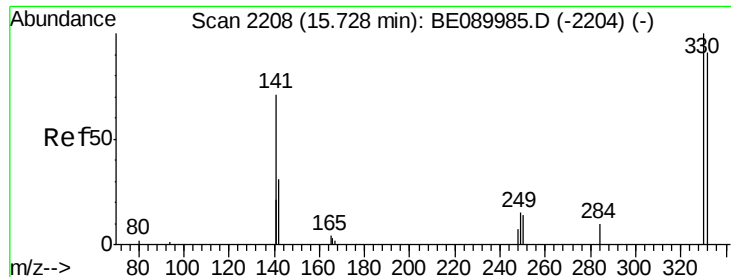
Ion Ratio Lower Upper

164 100

162 103.7 82.2 123.4

160 47.6 39.0 58.6

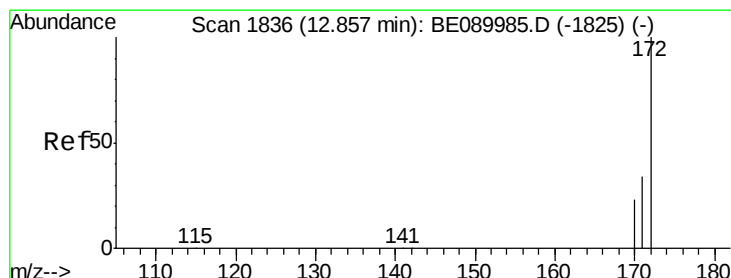
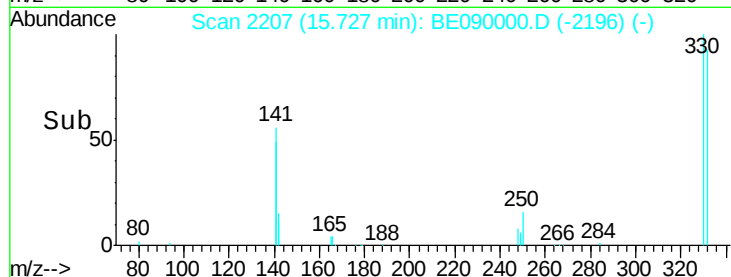
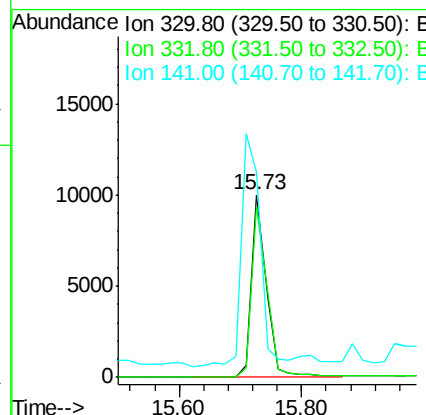
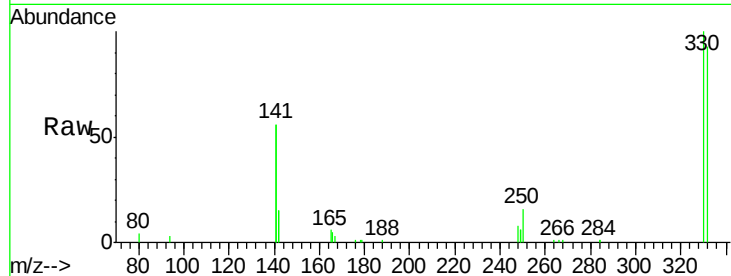




#13
 2,4,6-Tribromophenol
 Concen: 9.32 ng
 RT: 15.73 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: BE090000.D
 Acq: 30 Jun 2015 3:32

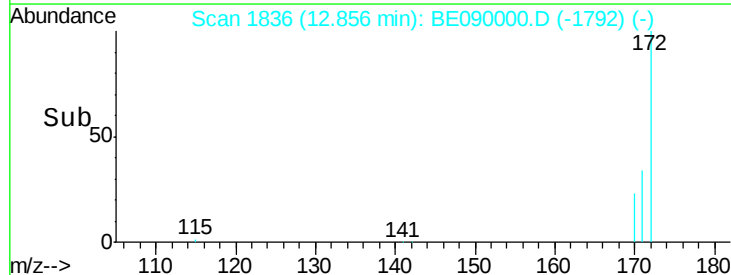
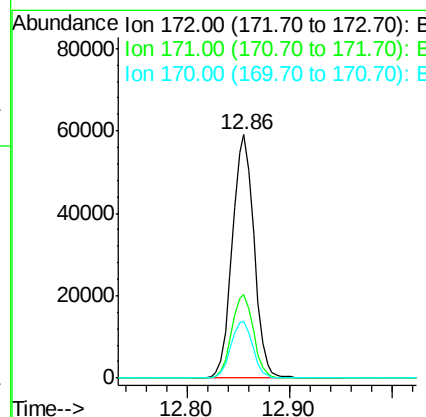
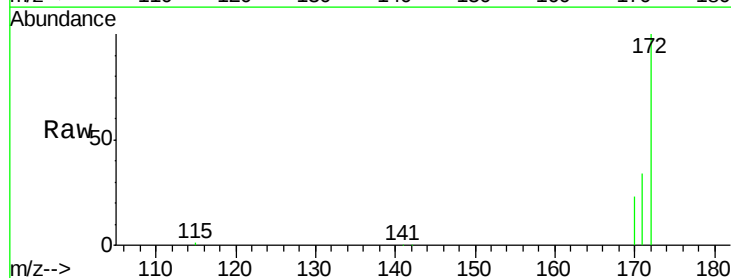
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0680624-150625

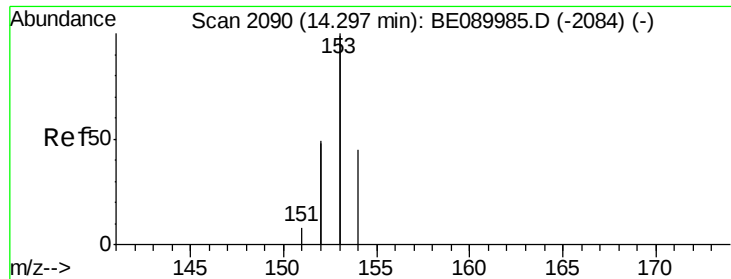
Tgt Ion:330 Resp: 16541
 Ion Ratio Lower Upper
 330 100
 332 96.8 76.4 114.6
 141 163.6 130.3 195.5



#14
 2-Fluorobiphenyl
 Concen: 4.74 ng
 RT: 12.86 min Scan# 1836
 Delta R.T. -0.00 min
 Lab File: BE090000.D
 Acq: 30 Jun 2015 3:32

Tgt Ion:172 Resp: 86193
 Ion Ratio Lower Upper
 172 100
 171 34.2 27.8 41.6
 170 23.1 18.3 27.5





#16

Acenaphthene

Concen: 0.10 ng

RT: 14.29 min Scan# 2089

Delta R.T. -0.01 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

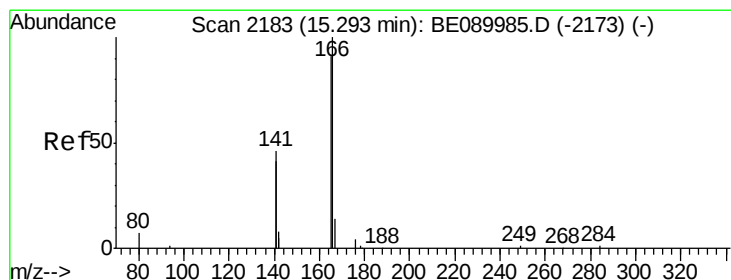
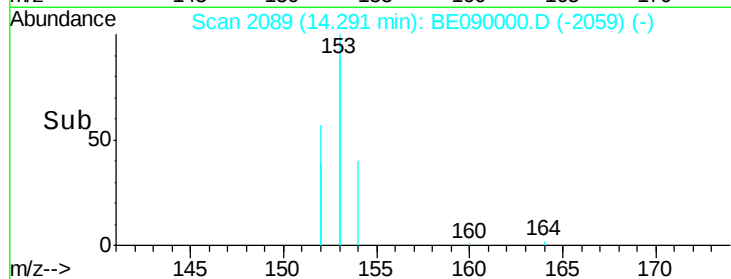
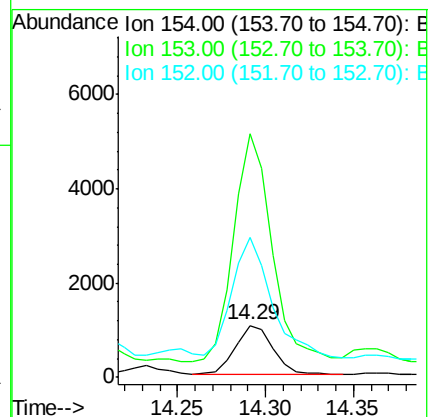
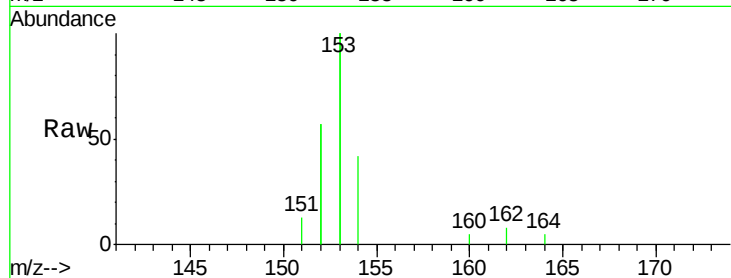
Tgt Ion:154 Resp: 1498

Ion Ratio Lower Upper

154 100

153 480.9 358.6 538.0

152 269.0 189.6 284.4



#17

Fluorene

Concen: 0.09 ng

RT: 15.29 min Scan# 2182

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

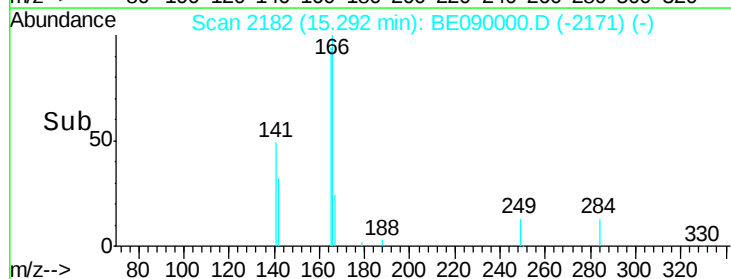
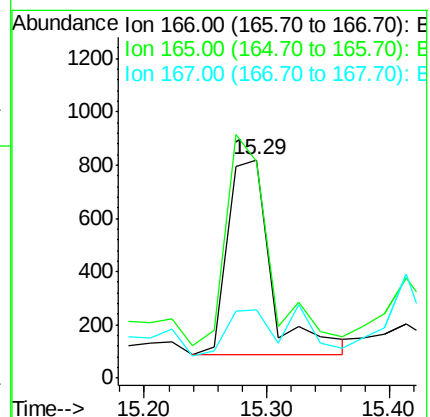
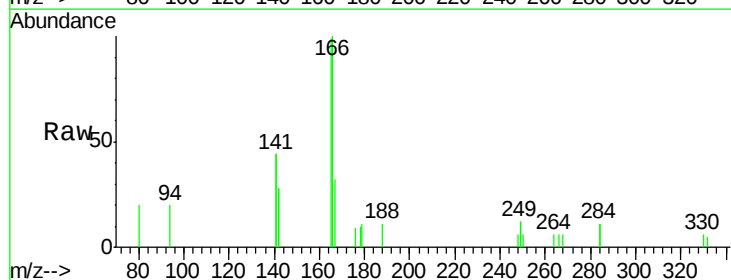
Tgt Ion:166 Resp: 1832

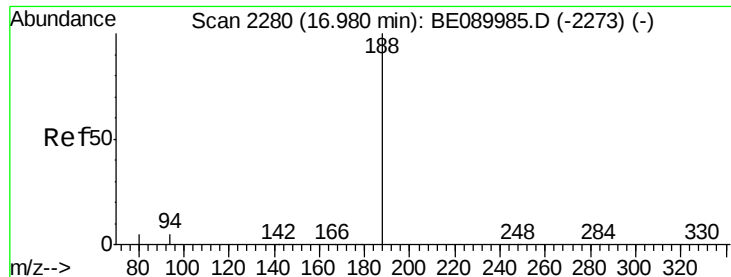
Ion Ratio Lower Upper

166 100

165 105.7 79.0 118.6

167 0.0 11.8 17.8#





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.98 min Scan# 2279

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

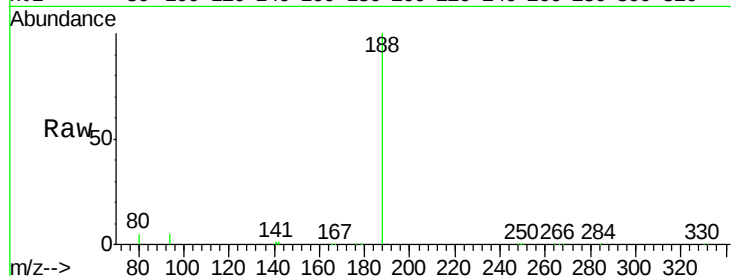
Tgt Ion:188 Resp: 139285

Ion Ratio Lower Upper

188 100

94 4.9 4.1 6.1

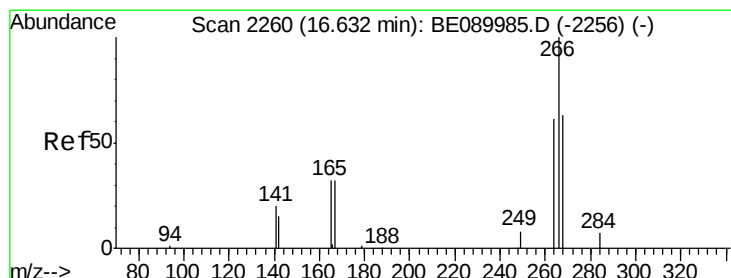
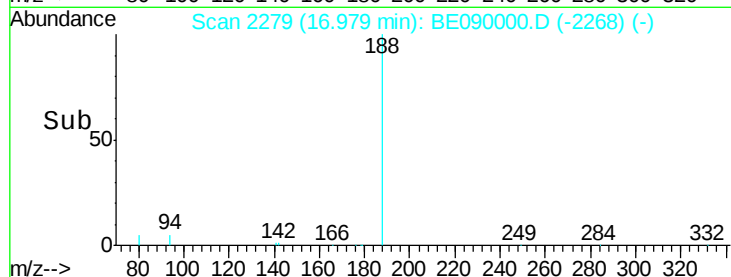
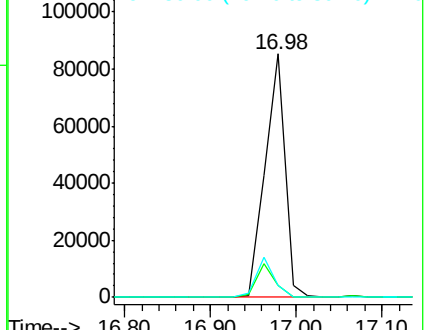
80 5.0 4.2 6.2



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



#21

Pentachlorophenol

Concen: 0.29 ng

RT: 16.63 min Scan# 2259

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

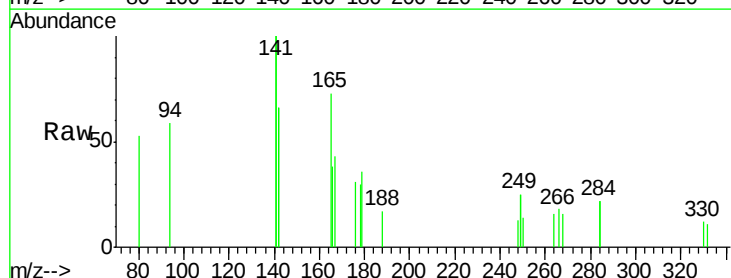
Tgt Ion:266 Resp: 93

Ion Ratio Lower Upper

266 100

268 88.3 51.8 77.8#

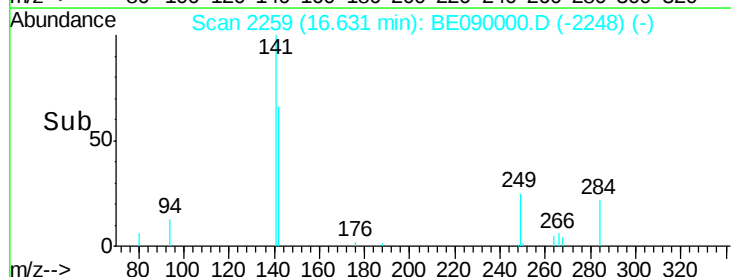
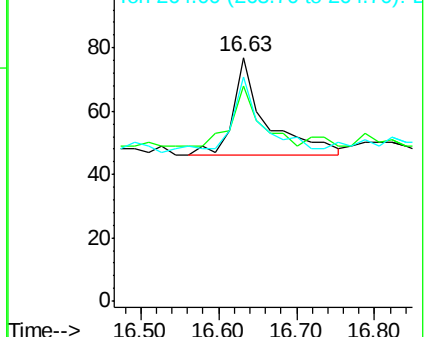
264 92.2 50.2 75.2#

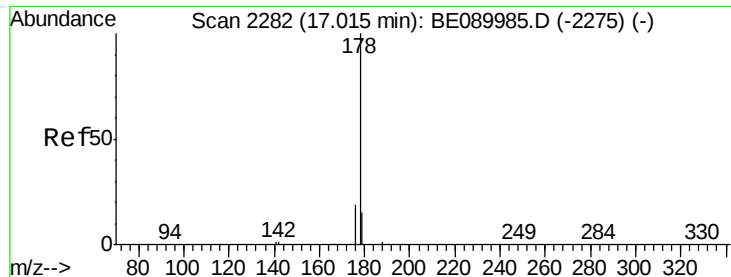


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#22

Phenanthrene

Concen: 0.82 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

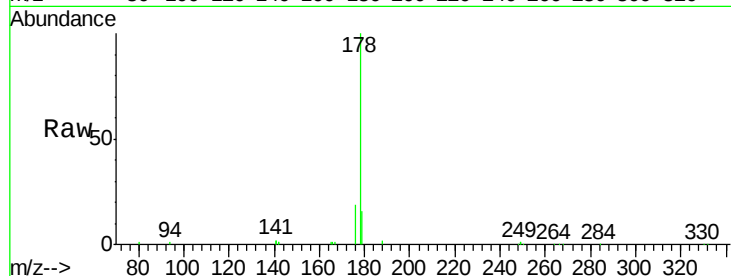
Tgt Ion:178 Resp: 29106

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

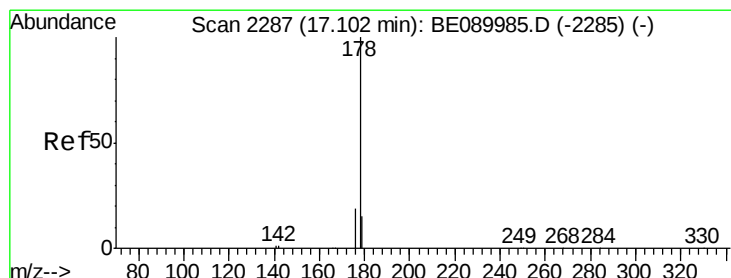
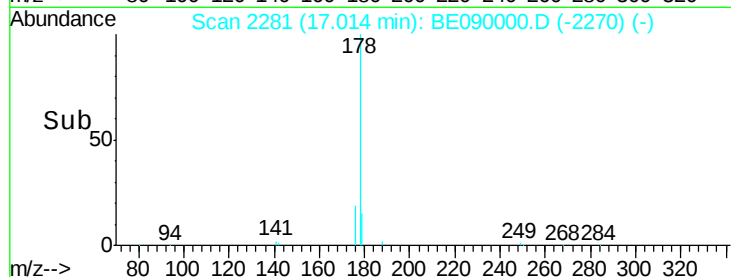
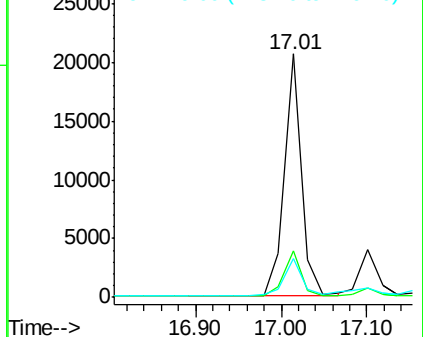
179 16.9 12.4 18.6



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



#23

Anthracene

Concen: 0.88 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.09 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

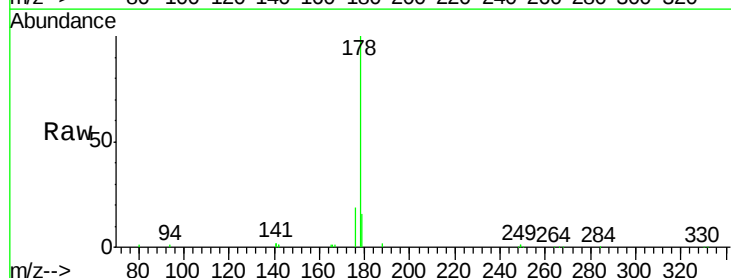
Tgt Ion:178 Resp: 28865

Ion Ratio Lower Upper

178 100

176 18.6 14.7 22.1

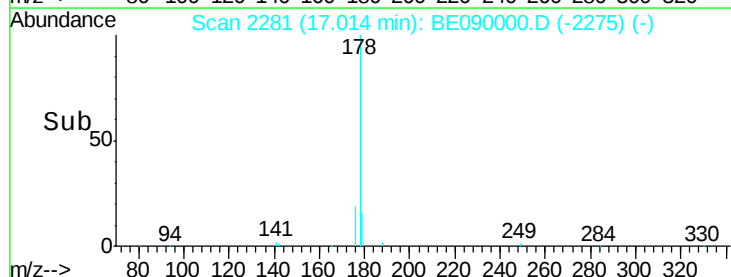
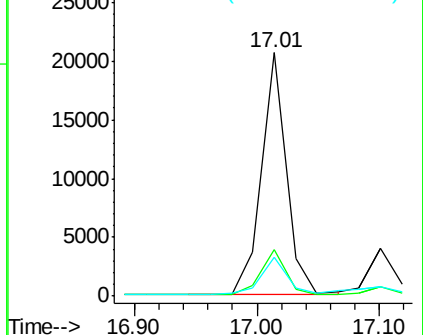
179 15.5 12.1 18.1

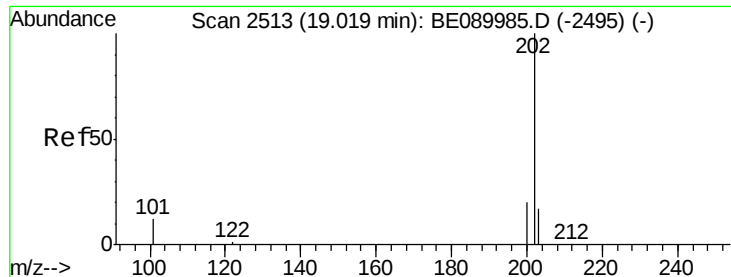


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene

Concen: 1.92 ng

RT: 19.02 min Scan# 2512

Delta R.T. 0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

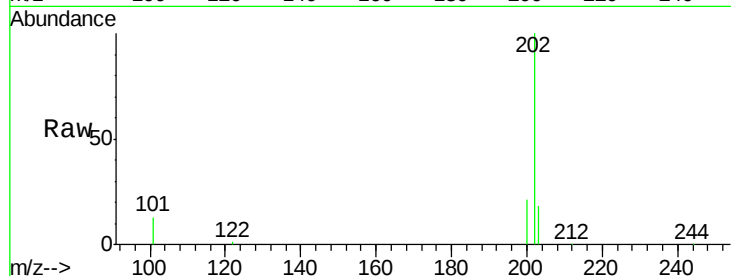
Tgt Ion:202 Resp: 76656

Ion Ratio Lower Upper

202 100

101 13.8 10.6 15.8

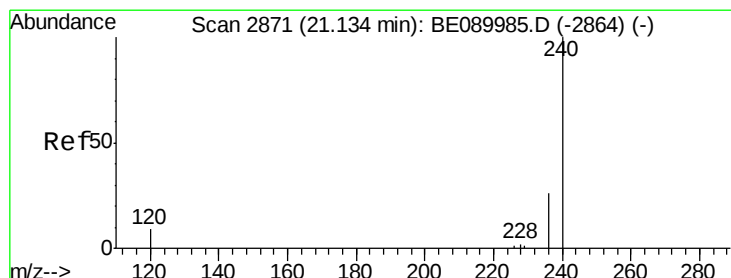
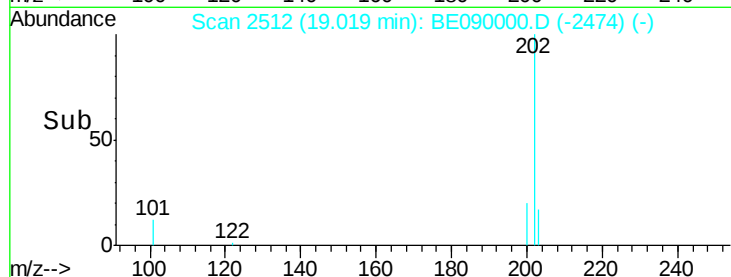
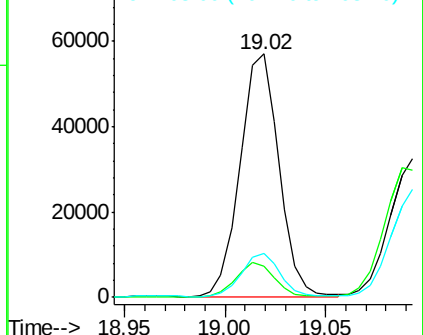
203 17.5 13.8 20.6



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



#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.13 min Scan# 2869

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

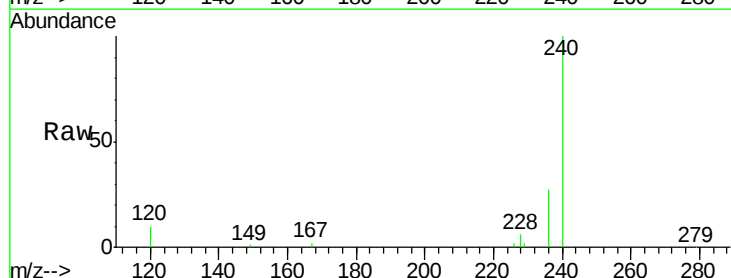
Tgt Ion:240 Resp: 157295

Ion Ratio Lower Upper

240 100

120 10.4 6.9 10.3#

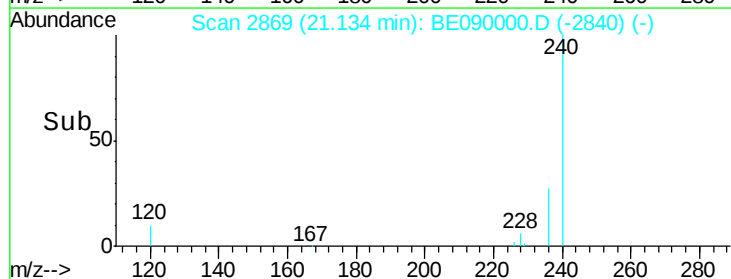
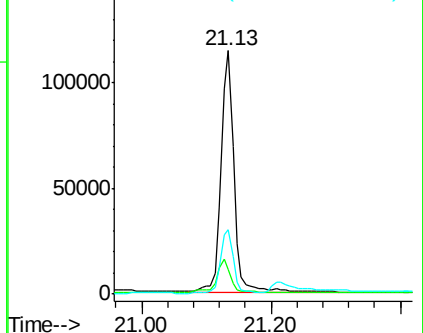
236 26.6 20.8 31.2

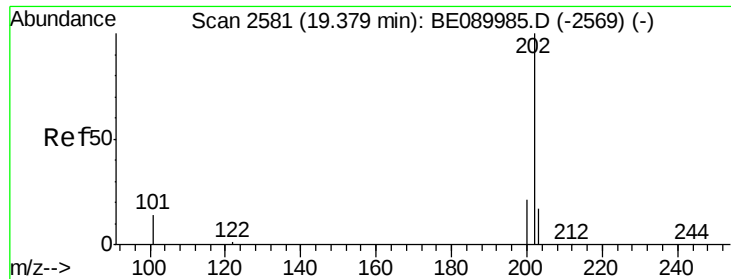


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

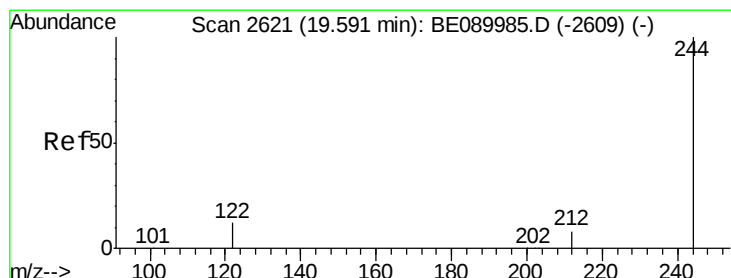
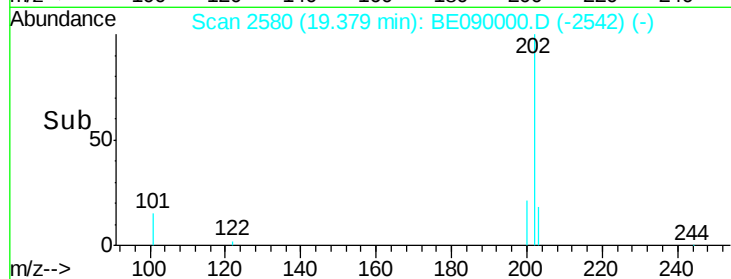
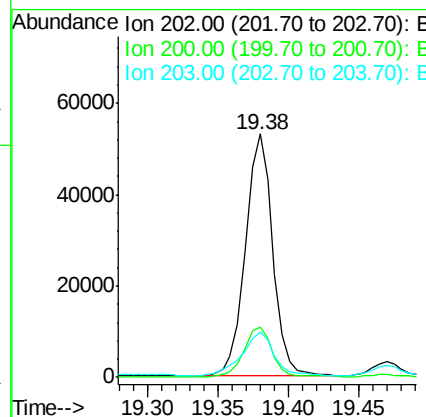
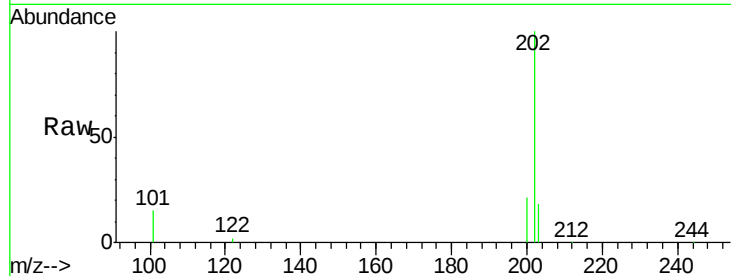




#26
 Pyrene
 Concen: 1.90 ng
 RT: 19.38 min Scan# 2580
 Delta R.T. 0.00 min
 Lab File: BE090000.D
 Acq: 30 Jun 2015 3:32

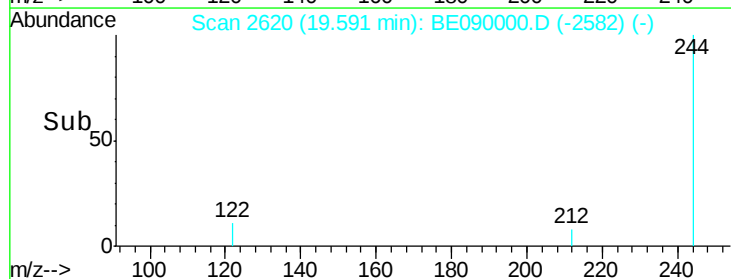
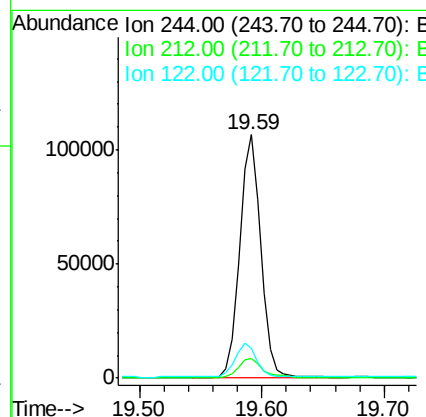
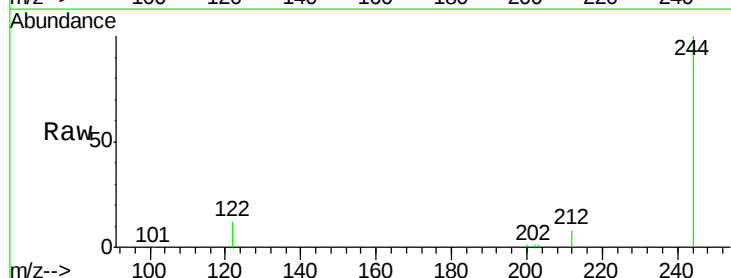
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0680624-150625

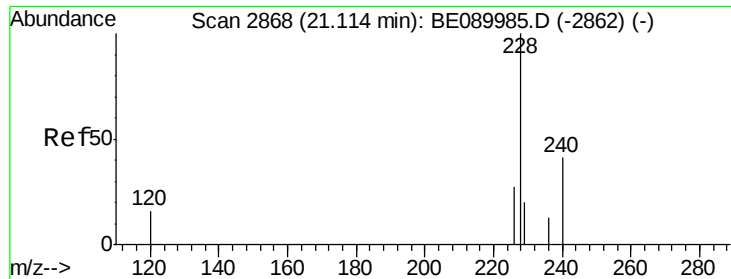
Tgt Ion: 202 Resp: 71313
 Ion Ratio Lower Upper
 202 100
 200 21.2 16.8 25.2
 203 21.1 13.9 20.9#



#27
 Terphenyl-d14
 Concen: 4.93 ng
 RT: 19.59 min Scan# 2620
 Delta R.T. 0.00 min
 Lab File: BE090000.D
 Acq: 30 Jun 2015 3:32

Tgt Ion: 244 Resp: 129299
 Ion Ratio Lower Upper
 244 100
 212 8.3 6.6 9.8
 122 12.3 9.8 14.8

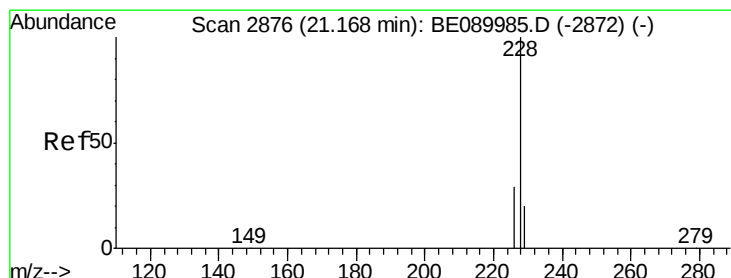
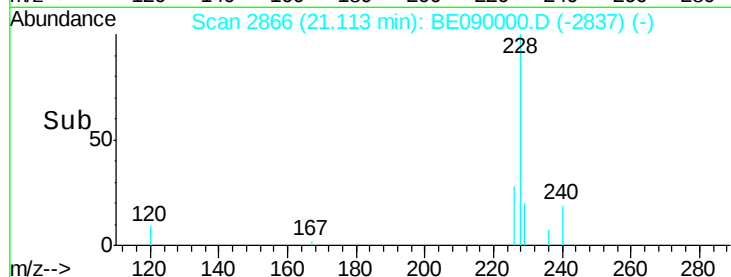
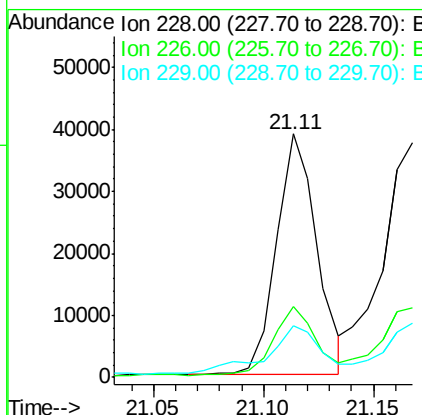
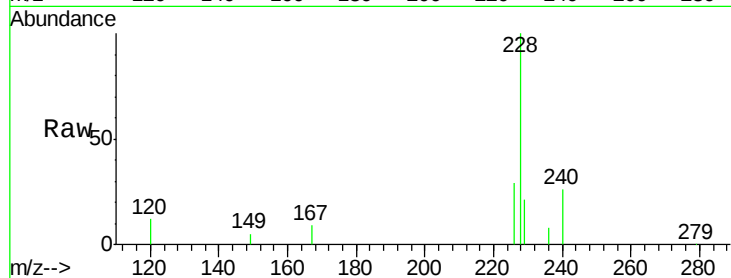




#28
Benzo(a)anthracene
Concen: 1.27 ng
RT: 21.11 min Scan# 2866
Delta R.T. -0.00 min
Lab File: BE090000.D
Acq: 30 Jun 2015 3:32

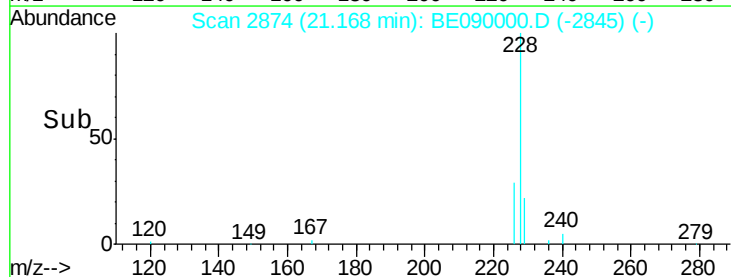
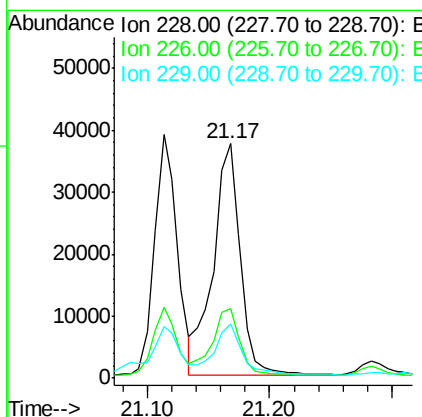
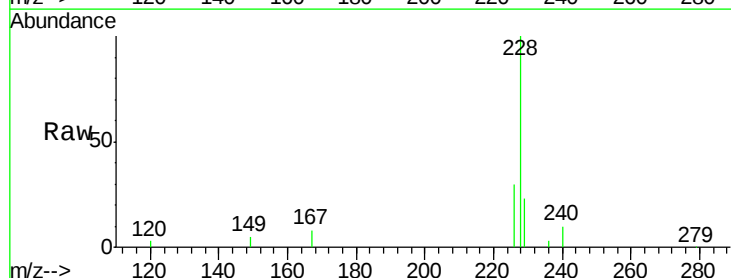
Instrument :
BNA_E
ClientSampleId :
X1SS0680624-150625

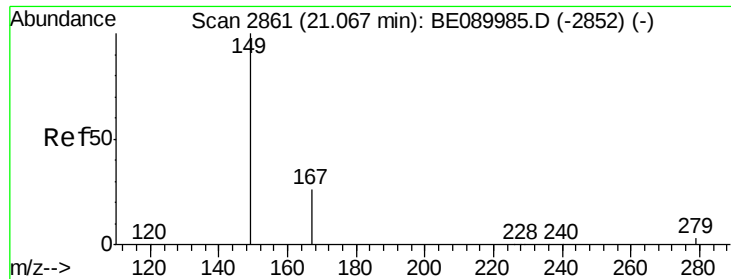
Tgt Ion:228 Resp: 49822
Ion Ratio Lower Upper
228 100
226 28.9 21.8 32.6
229 21.0 15.8 23.6



#29
Chrysene
Concen: 1.42 ng
RT: 21.17 min Scan# 2874
Delta R.T. -0.00 min
Lab File: BE090000.D
Acq: 30 Jun 2015 3:32

Tgt Ion:228 Resp: 57774
Ion Ratio Lower Upper
228 100
226 29.8 23.4 35.0
229 23.0 16.2 24.2





#30

Bis(2-ethylhexyl)phthalate

Concen: 0.56 ng

RT: 21.07 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

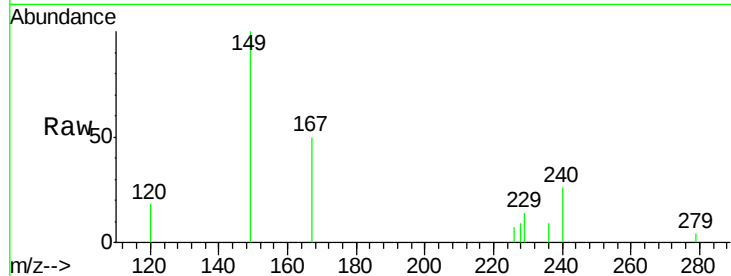
Tgt Ion:149 Resp: 4963

Ion Ratio Lower Upper

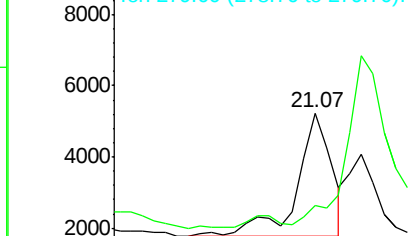
149 100

167 0.0 20.3 30.5#

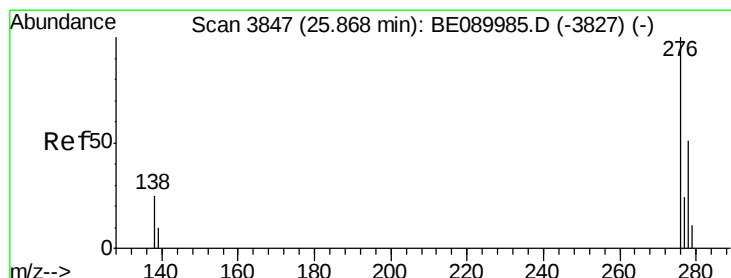
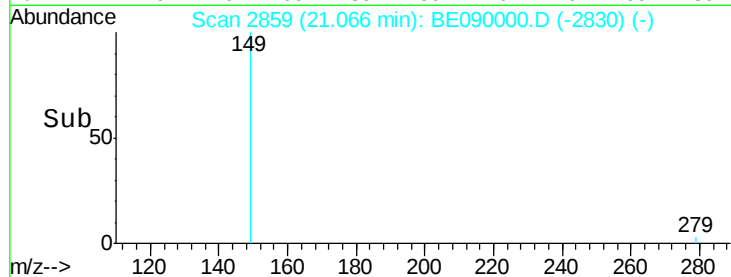
279 3.0 2.6 3.8



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



Time--> 20.95 21.00 21.05 21.10



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.93 ng

RT: 25.86 min Scan# 3845

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

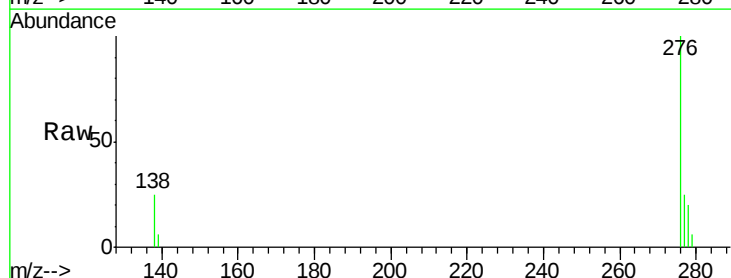
Tgt Ion:276 Resp: 36224

Ion Ratio Lower Upper

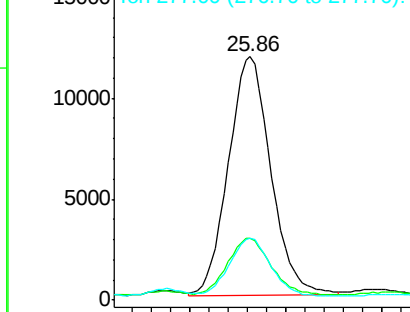
276 100

138 23.9 21.3 31.9

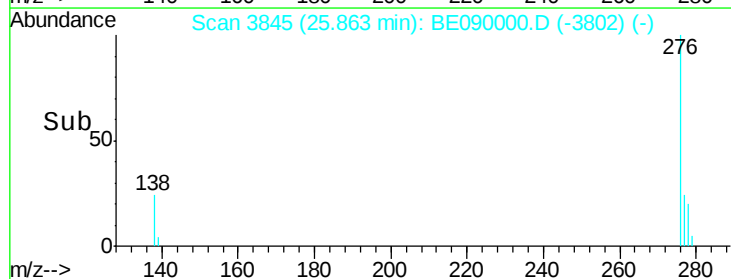
277 23.7 19.7 29.5

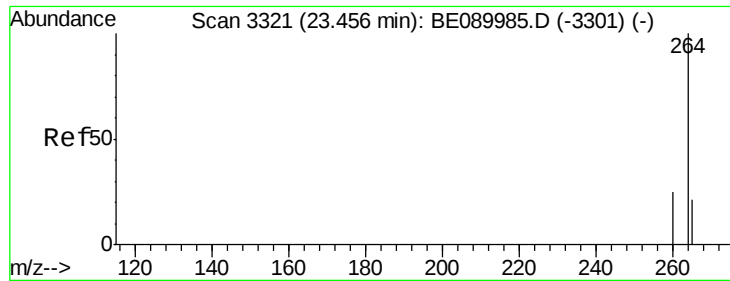


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



Time--> 25.80 25.90 26.00

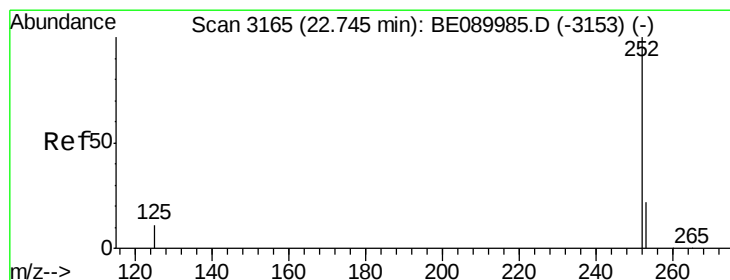
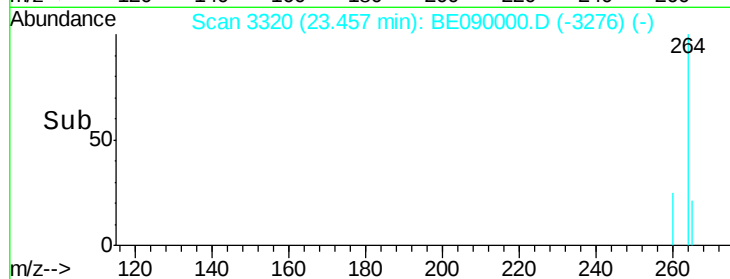
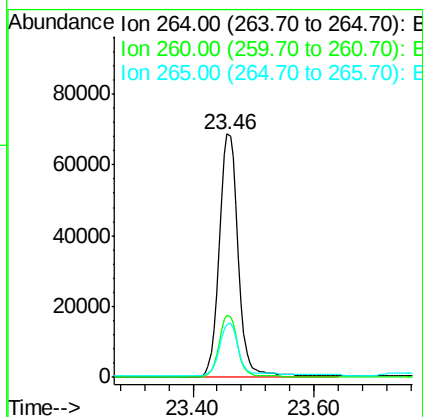
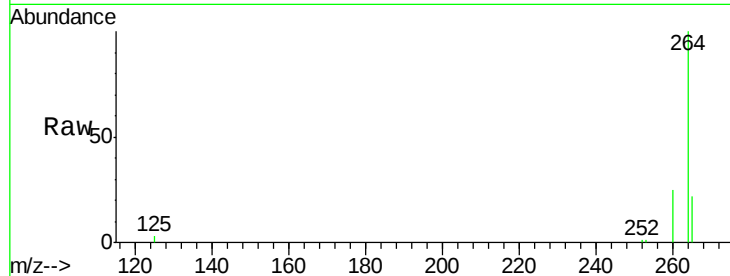




#32
Perylene-d12
Concen: 5.00 ng
RT: 23.46 min Scan# 3320
Delta R.T. 0.00 min
Lab File: BE090000.D
Acq: 30 Jun 2015 3:32

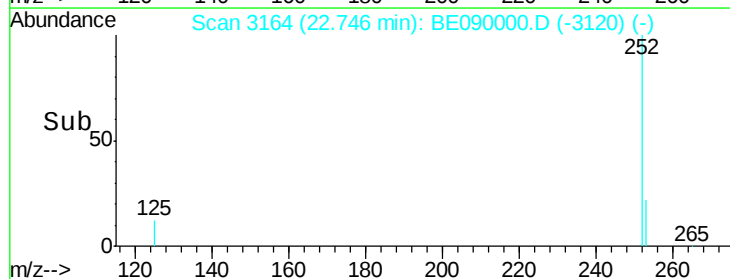
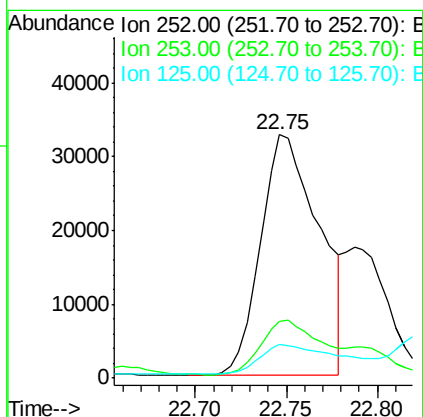
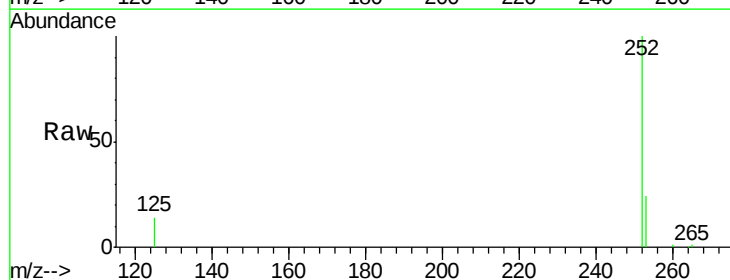
Instrument :
BNA_E
ClientSampleId :
X1SS0680624-150625

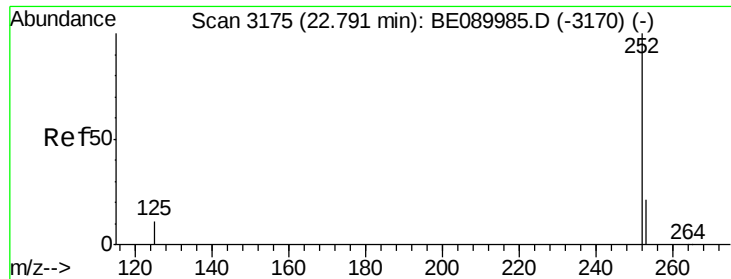
Tgt Ion: 264 Resp: 149447
Ion Ratio Lower Upper
264 100
260 25.2 20.2 30.2
265 22.0 17.1 25.7



#33
Benzo(b)fluoranthene
Concen: 2.22 ng
RT: 22.75 min Scan# 3164
Delta R.T. 0.00 min
Lab File: BE090000.D
Acq: 30 Jun 2015 3:32

Tgt Ion: 252 Resp: 73165
Ion Ratio Lower Upper
252 100
253 23.5 17.8 26.8
125 13.8 9.0 13.4#





#34

Benzo(k)fluoranthene

Concen: 1.99 ng

RT: 22.75 min Scan# 3164

Delta R.T. -0.04 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

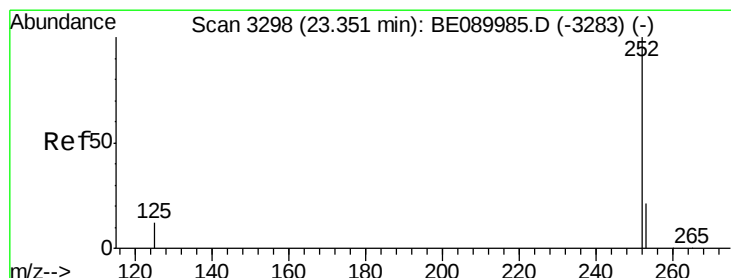
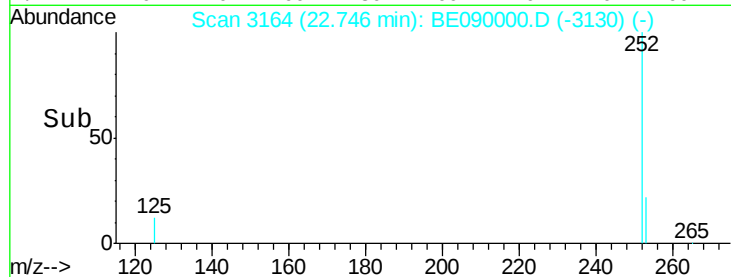
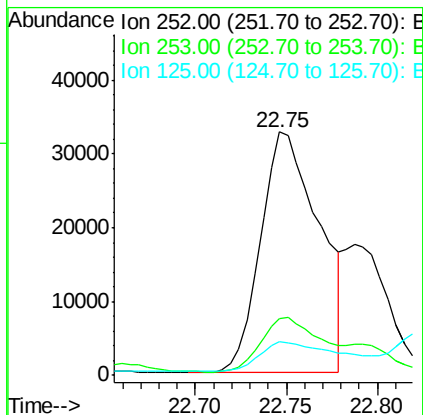
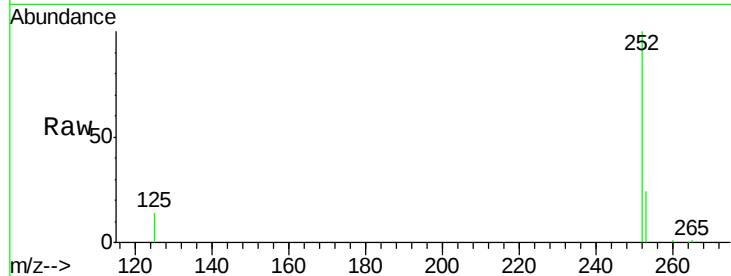
Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

Tgt Ion:	252	Resp:	73165
Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	13.8	9.5	14.3



#35

Benzo(a)pyrene

Concen: 1.68 ng

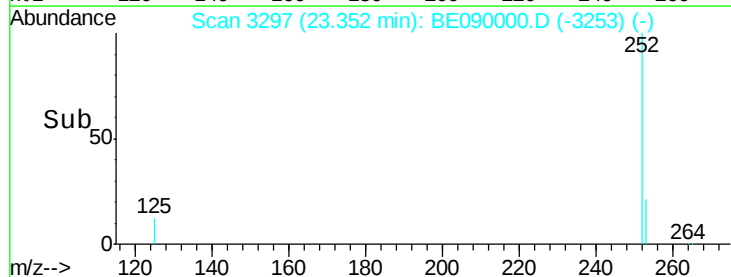
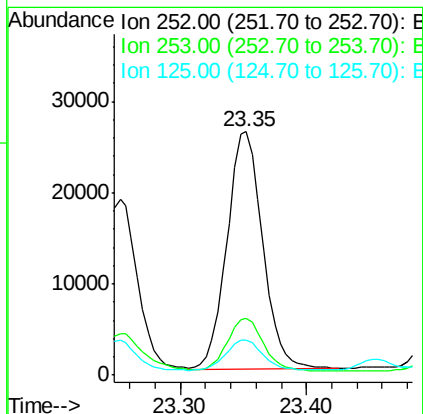
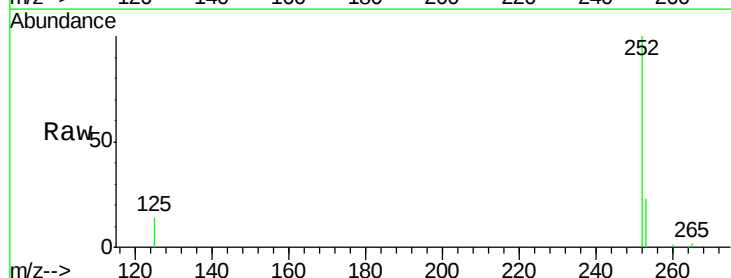
RT: 23.35 min Scan# 3297

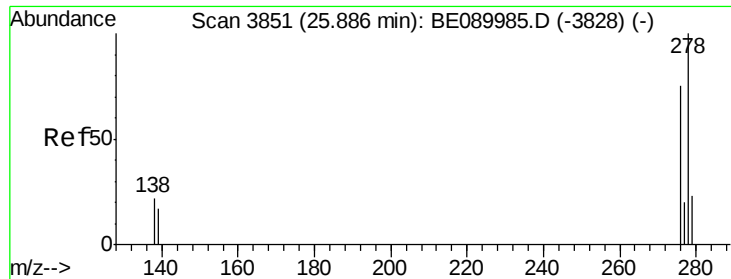
Delta R.T. 0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Tgt Ion:	252	Resp:	51166
Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.4	26.2
125	14.3	10.5	15.7





#36

Dibenzo(a,h)anthracene

Concen: 0.29 ng

RT: 25.87 min Scan# 3847

Delta R.T. -0.01 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

Instrument :

BNA_E

ClientSampleId :

X1SS0680624-150625

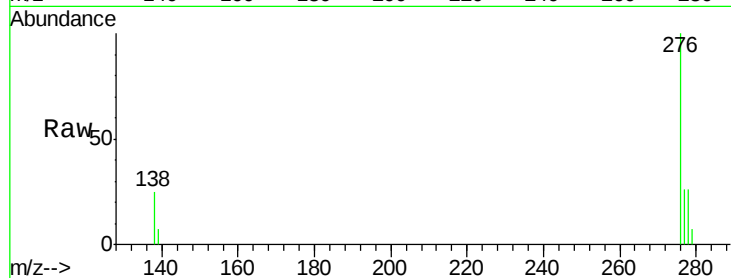
Tgt Ion: 278 Resp: 9042

Ion Ratio Lower Upper

278 100

139 28.1 14.4 21.6#

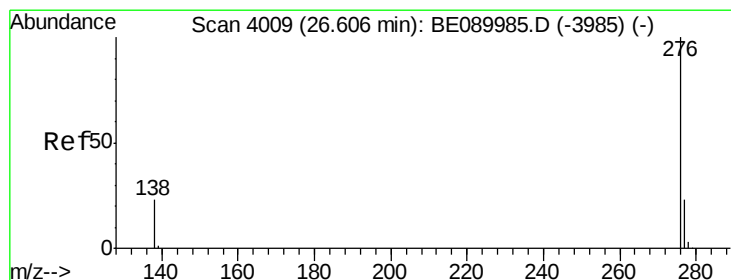
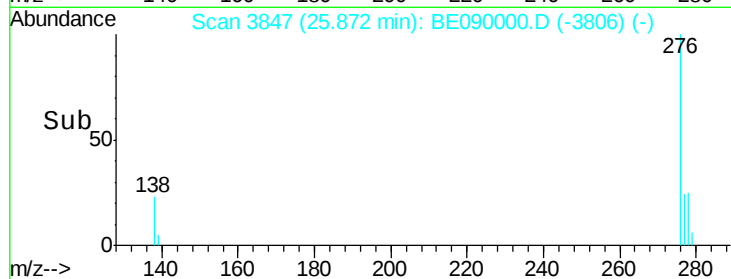
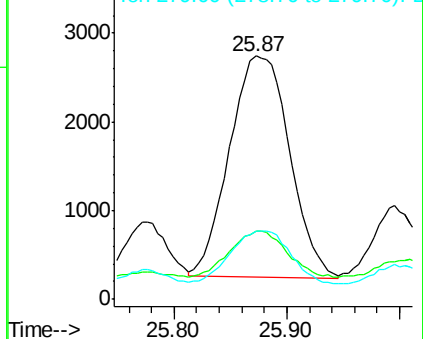
279 28.1 19.0 28.6



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



#37

Benzo(g,h,i)perylene

Concen: 1.29 ng

RT: 26.61 min Scan# 4008

Delta R.T. -0.00 min

Lab File: BE090000.D

Acq: 30 Jun 2015 3:32

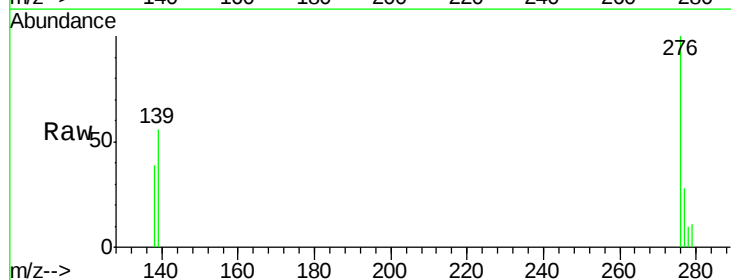
Tgt Ion: 276 Resp: 40797

Ion Ratio Lower Upper

276 100

277 28.4 18.8 28.2#

138 38.6 18.6 27.8#



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

