

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE041116\
 Data File : BE091641.D
 Acq On : 11 Apr 2016 23:01
 Operator : UM/SJ
 Sample : H2090-04
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 KY038PS038-160330

Quant Time: Apr 12 01:50:11 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE040816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 08 16:48:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	74331	5.00	ng	-0.02
7) Naphthalene-d8	10.57	136	366559	5.00	ng	-0.02
13) Acenaphthene-d10	14.42	164	223912	5.00	ng	0.00
19) Phenanthrene-d10	17.16	188	547788	5.00	ng	0.00
26) Chrysene-d12	21.31	240	697407	5.00	ng	0.00
35) Perylene-d12	23.76	264	635439	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.41	112	41560	2.34	ng	0.00
5) Phenol-d6	6.97	99	36592	1.55	ng	0.00
8) Nitrobenzene-d5	8.96	82	77334	3.63	ng	0.00
14) 2,4,6-Tribromophenol	15.90	330	71309	8.68	ng	0.00
15) 2-Fluorobiphenyl	13.05	172	238554	3.83	ng	0.00
29) Terphenyl-d14	19.76	244	458775	5.27	ng	0.00

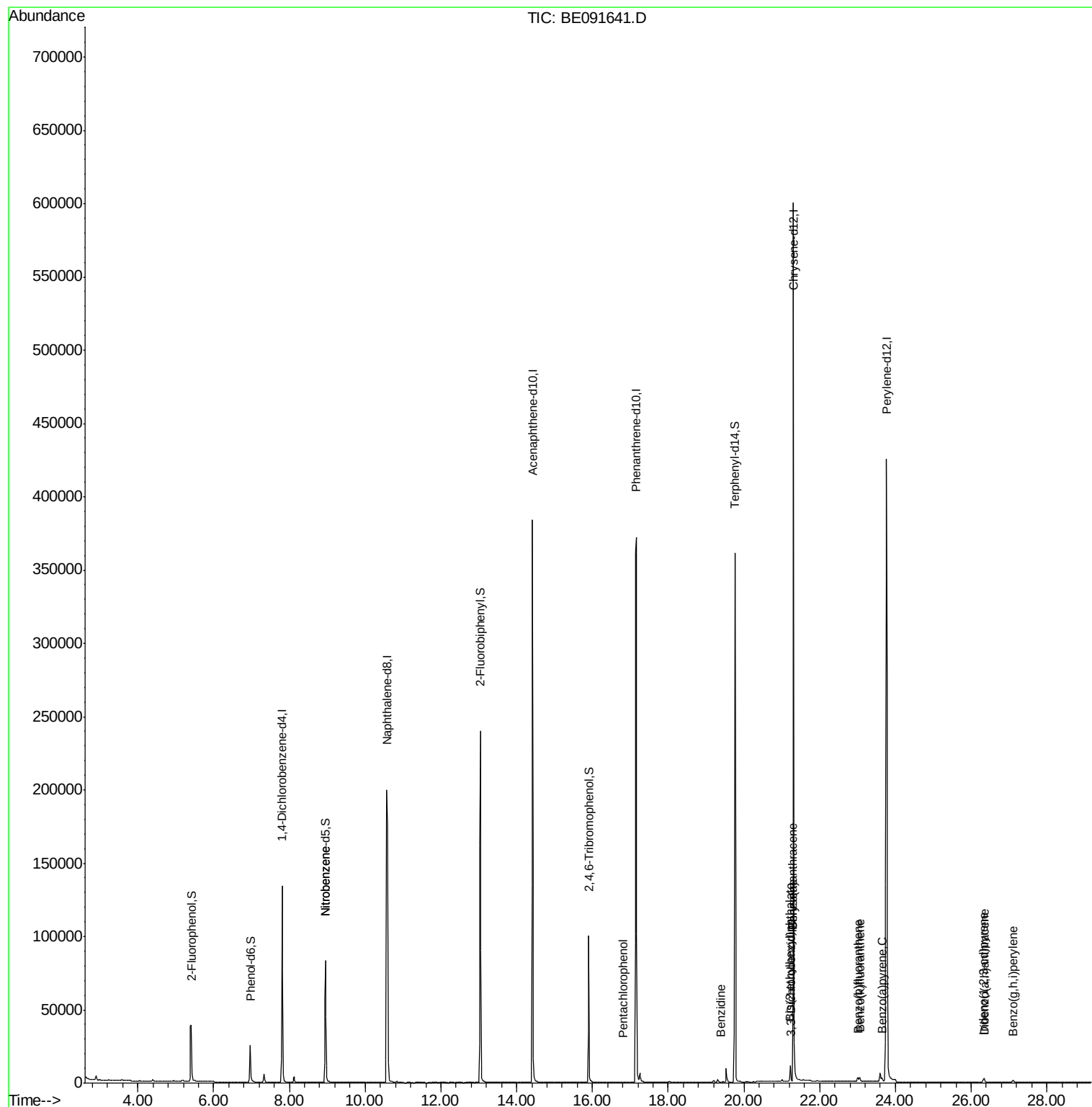
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.35	88	460	Below Cal	#	51
9) Nitrobenzene	8.96	77	273	0.18 ng	#	39
22) Pentachlorophenol	16.81	266	149	0.24 ng	#	87
27) Benzidine	19.40	184	257	0.34 ng	#	1
30) Benzo(a)anthracene	21.29	228	10326	0.07 ng	#	98
31) 3,3'-Dichlorobenzidine	21.24	252	185	0.17 ng	#	63
32) Chrysene	21.29	228	10401	0.07 ng	#	96
33) Bis(2-ethylhexyl)phthalate	21.22	149	12953	0.37 ng	#	83
34) Indeno(1,2,3-cd)pyrene	26.32	276	4004	0.03 ng	#	98
36) Benzo(b)fluoranthene	23.01	252	3874	0.03 ng	#	73
37) Benzo(k)fluoranthene	23.06	252	3708	0.03 ng	#	80
38) Benzo(a)pyrene	23.65	252	3162	0.02 ng	#	64
39) Dibenzo(a,h)anthracene	26.35	278	3777	0.03 ng	#	89
40) Benzo(g,h,i)perylene	27.10	276	3555	0.03 ng	#	91

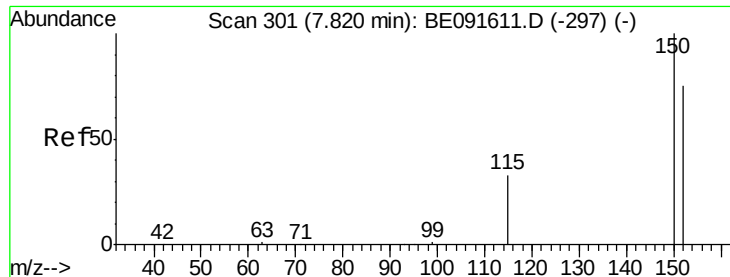
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. -0.02 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

Instrument :

BNA_E

ClientSampleId :

KY038PS038-160330

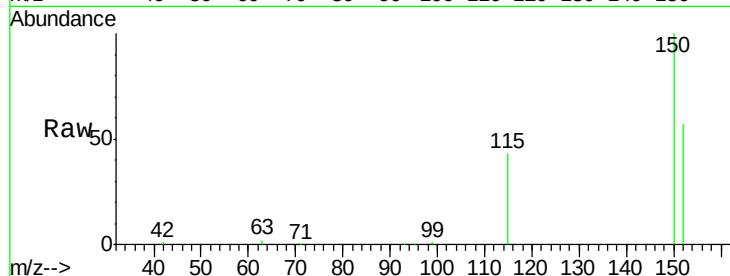
Tgt Ion:152 Resp: 74331

Ion Ratio Lower Upper

152 100

150 174.0 122.6 183.8

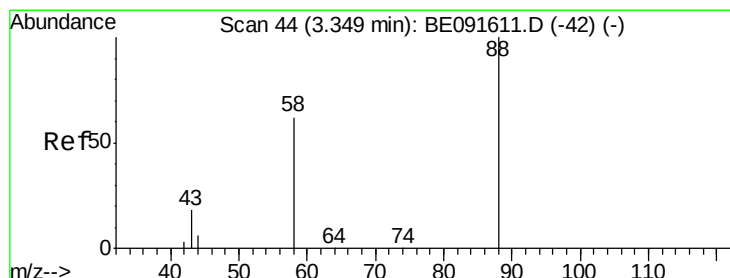
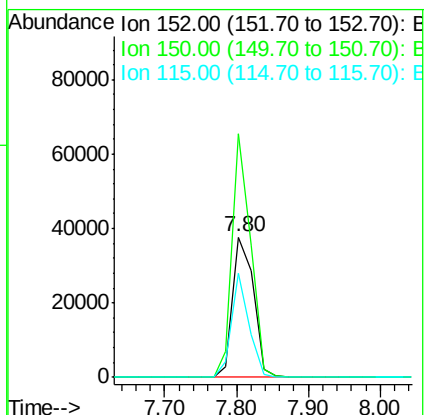
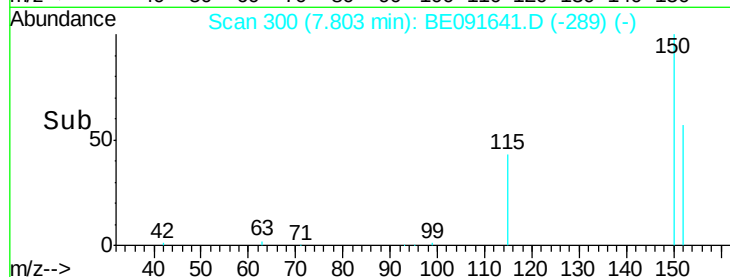
115 74.7 52.8 79.2



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: Below Cal

RT: 3.35 min Scan# 44

Delta R.T. 0.00 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

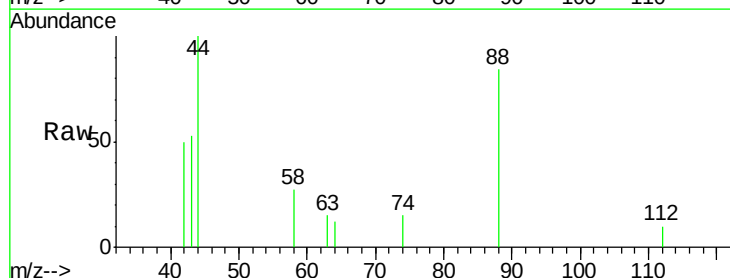
Tgt Ion: 88 Resp: 460

Ion Ratio Lower Upper

88 100

58 28.0 65.8 98.6#

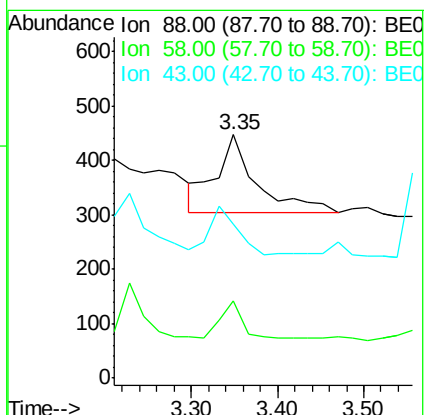
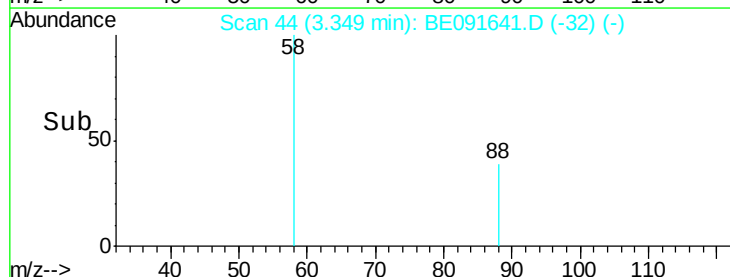
43 41.5 25.3 37.9#

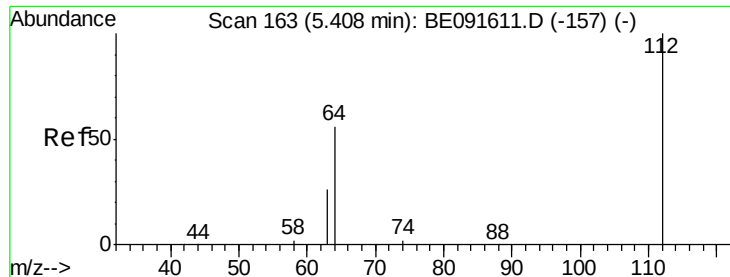


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 2.34 ng

RT: 5.41 min Scan# 163

Delta R.T. 0.00 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

Instrument :

BNA_E

ClientSampleId :

KY038PS038-160330

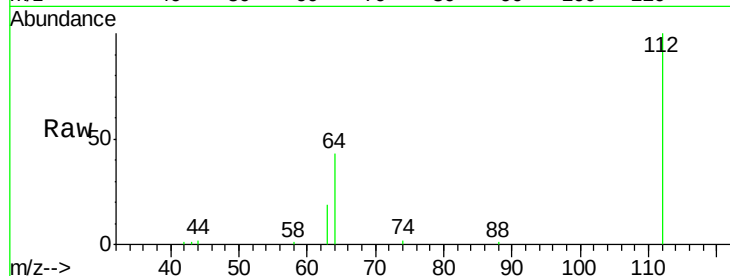
Tgt Ion: 112 Resp: 41560

Ion Ratio Lower Upper

112 100

64 68.0 30.9 46.3#

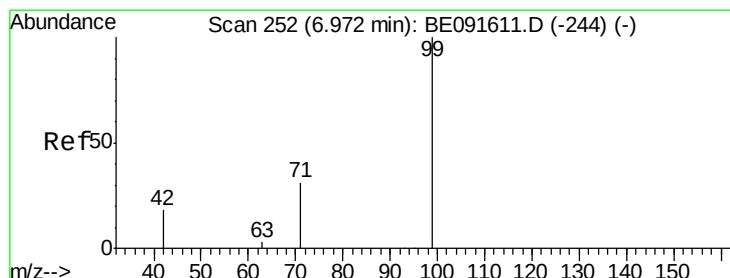
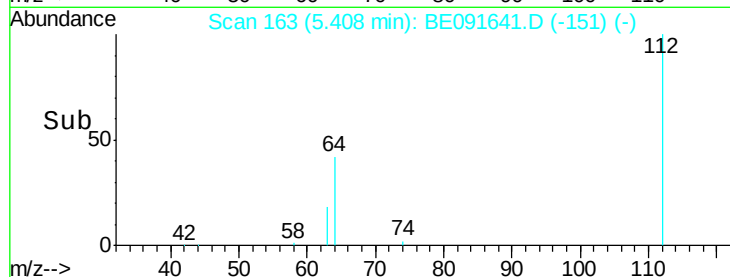
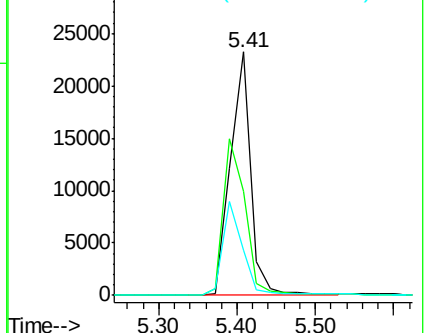
63 36.7 16.7 25.1#



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: 1.55 ng

RT: 6.97 min Scan# 252

Delta R.T. 0.00 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

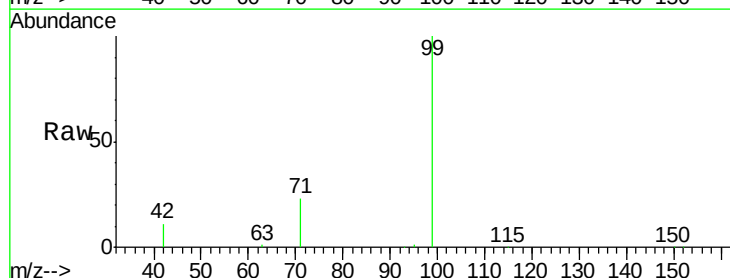
Tgt Ion: 99 Resp: 36592

Ion Ratio Lower Upper

99 100

42 24.9 16.2 24.2#

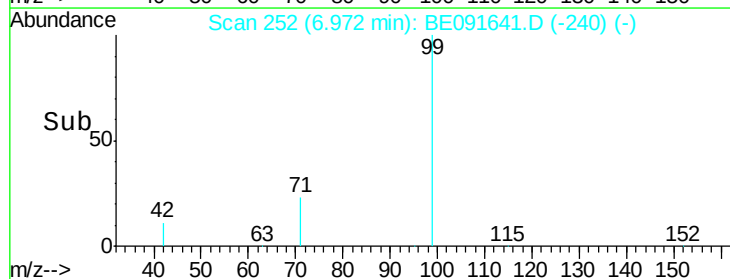
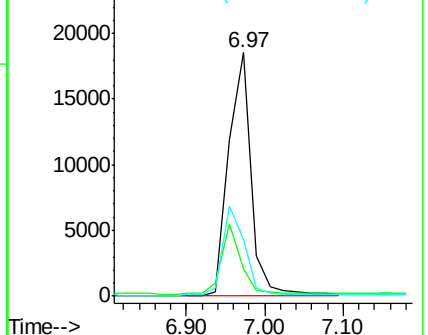
71 36.1 29.0 43.4

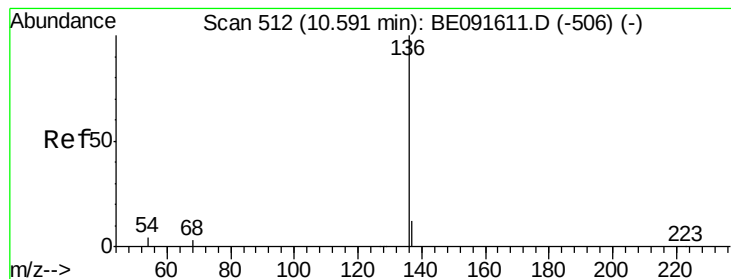


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.57 min Scan# 511

Delta R.T. -0.02 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

Instrument :

BNA_E

ClientSampleId :

KY038PS038-160330

Tgt Ion: 136 Resp: 366559

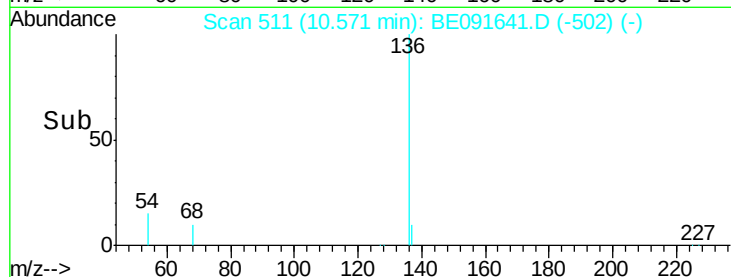
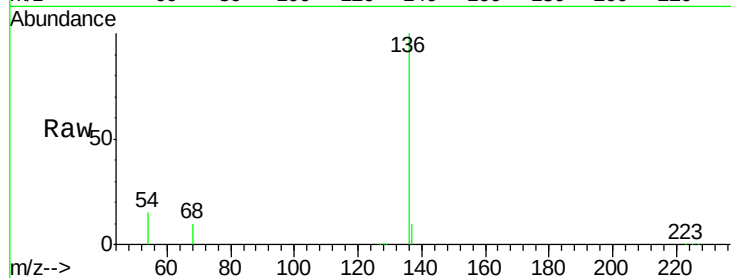
Ion Ratio Lower Upper

136 100

137 9.7 8.9 13.3

54 15.2 8.2 12.4#

68 9.8 6.2 9.4#

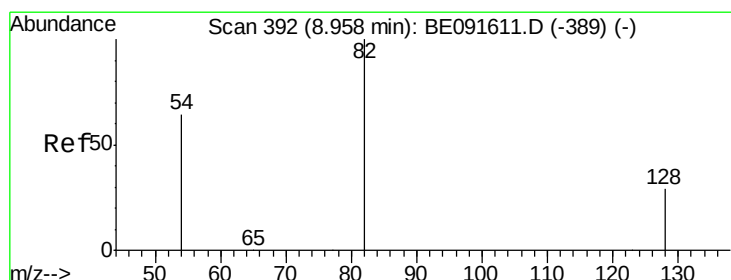
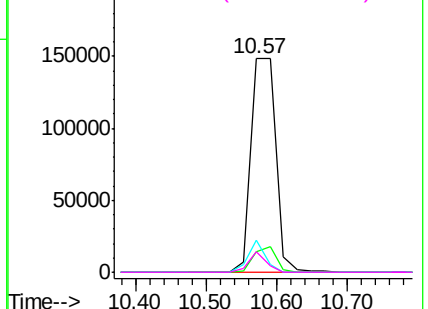


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 3.63 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.00 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

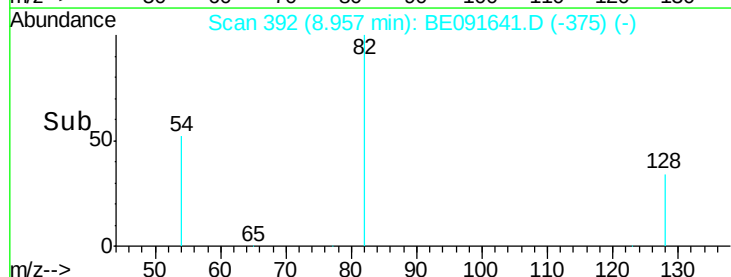
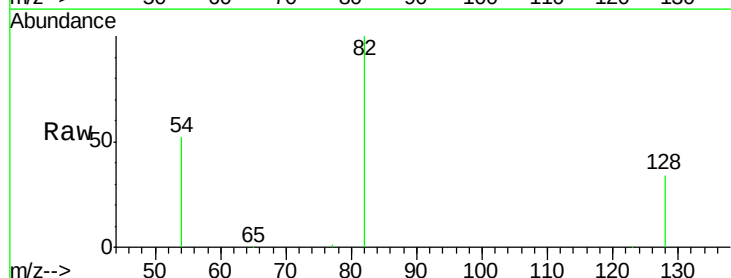
Tgt Ion: 82 Resp: 77334

Ion Ratio Lower Upper

82 100

128 34.2 25.4 38.0

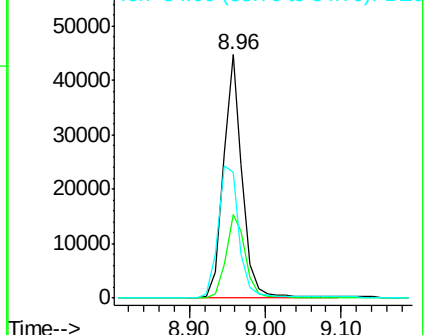
54 51.9 48.4 72.6

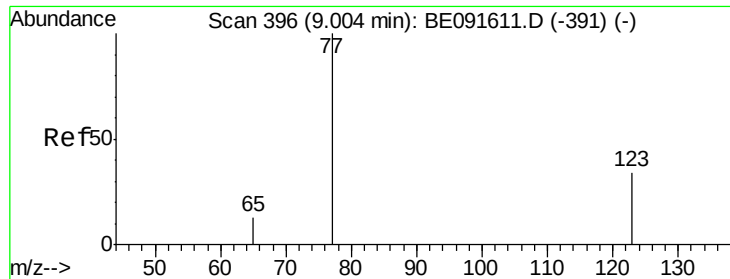


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 0.18 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.05 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

Instrument :

BNA_E

ClientSampleId :

KY038PS038-160330

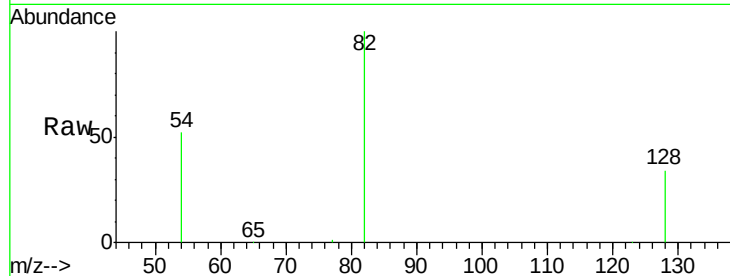
Tgt Ion: 77 Resp: 273

Ion Ratio Lower Upper

77 100

123 0.0 26.9 40.3#

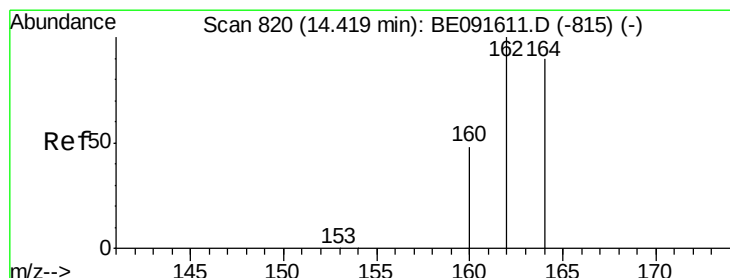
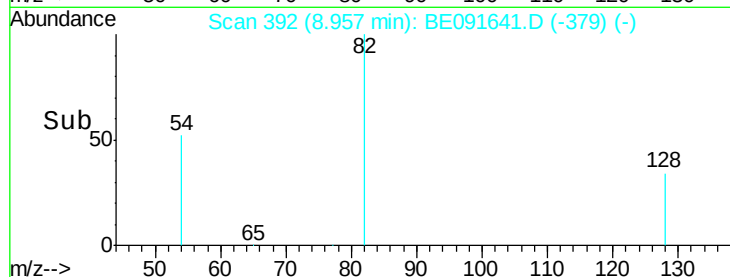
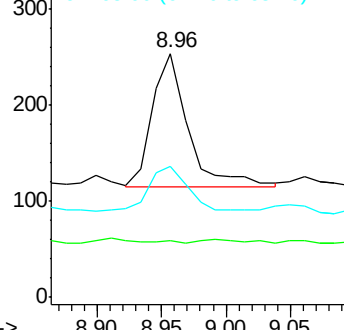
65 37.7 9.4 14.2#



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



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

Delta R.T. 0.00 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

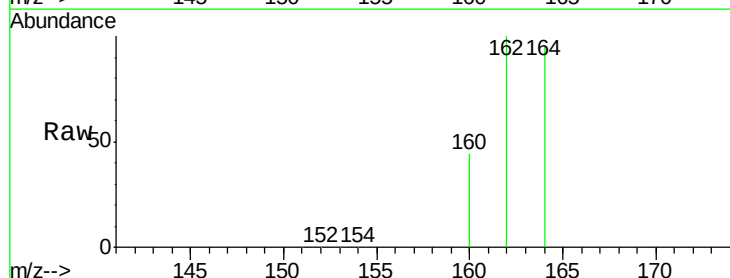
Tgt Ion: 164 Resp: 223912

Ion Ratio Lower Upper

164 100

162 105.7 85.3 127.9

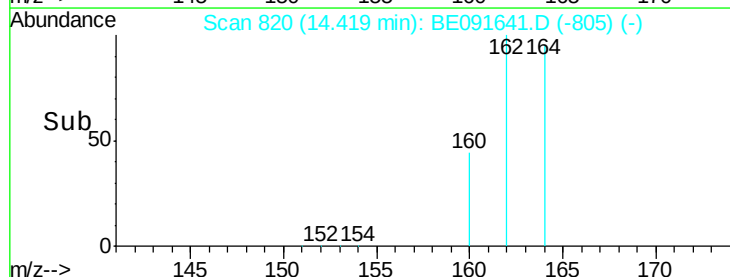
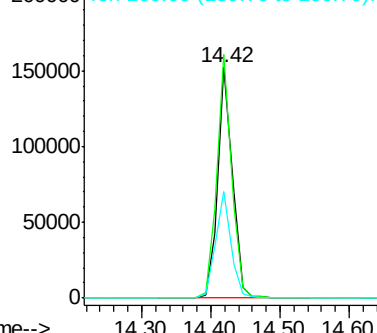
160 46.4 46.2 69.2

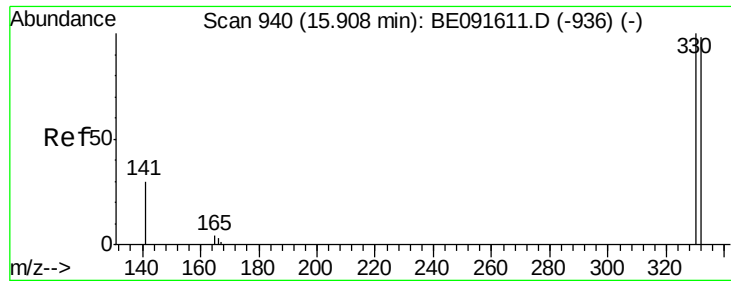


Abundance Ion 164.00 (163.70 to 164.70): BE0

Ion 162.00 (161.70 to 162.70): BE0

Ion 160.00 (159.70 to 160.70): BE0

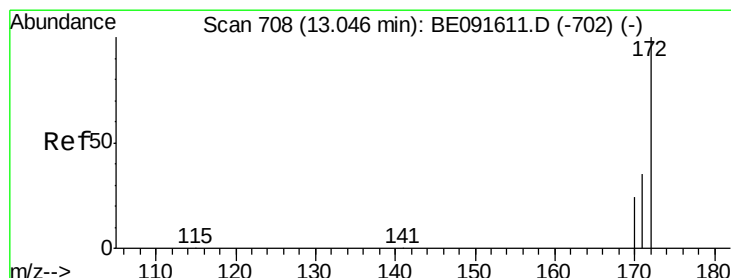
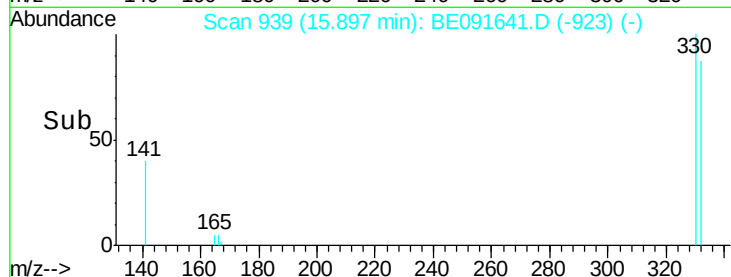
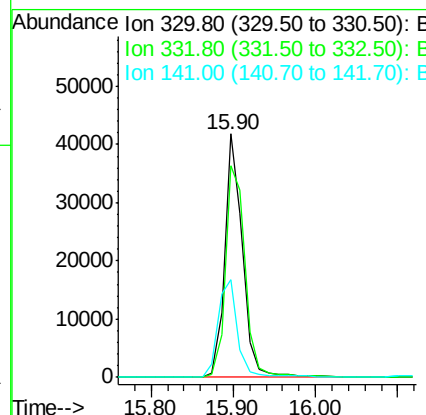
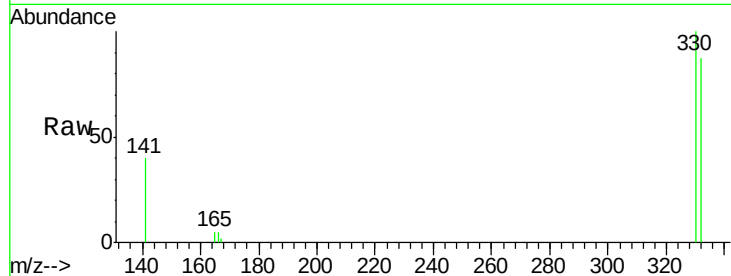




#14
 2,4,6-Tribromophenol
 Concen: 8.68 ng
 RT: 15.90 min Scan# 939
 Delta R.T. -0.01 min
 Lab File: BE091641.D
 Acq: 11 Apr 2016 23:01

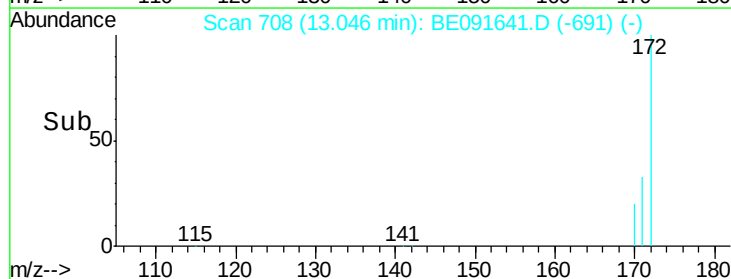
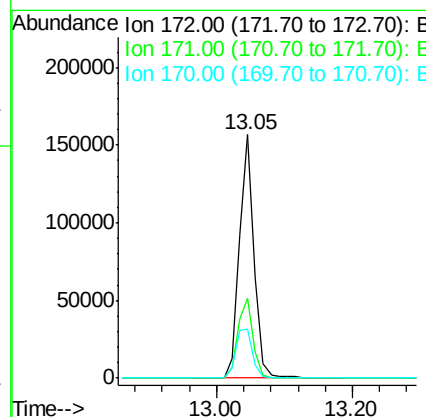
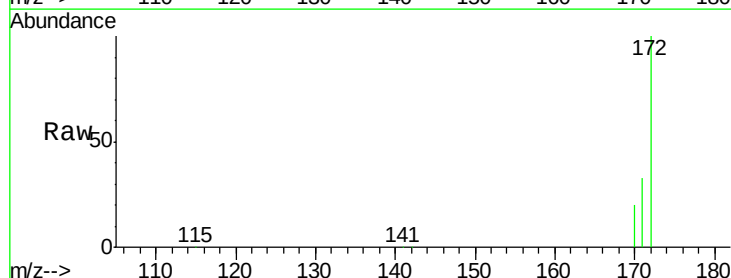
Instrument :
 BNA_E
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 KY038PS038-160330

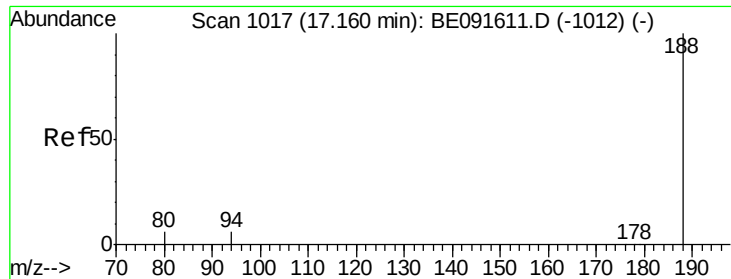
Tgt Ion:330 Resp: 71309
 Ion Ratio Lower Upper
 330 100
 332 96.5 79.1 118.7
 141 43.4 125.4 188.0#



#15
 2-Fluorobiphenyl
 Concen: 3.83 ng
 RT: 13.05 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: BE091641.D
 Acq: 11 Apr 2016 23:01

Tgt Ion:172 Resp: 238554
 Ion Ratio Lower Upper
 172 100
 171 32.6 28.8 43.2
 170 20.1 19.3 28.9





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.16 min Scan# 1016

Delta R.T. -0.00 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

Instrument :

BNA_E

ClientSampleId :

KY038PS038-160330

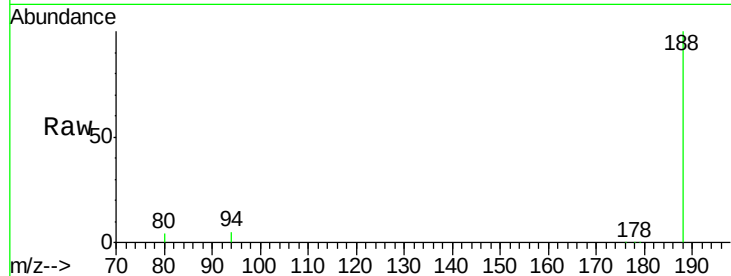
Tgt Ion:188 Resp: 547788

Ion Ratio Lower Upper

188 100

94 5.2 8.7 13.1#

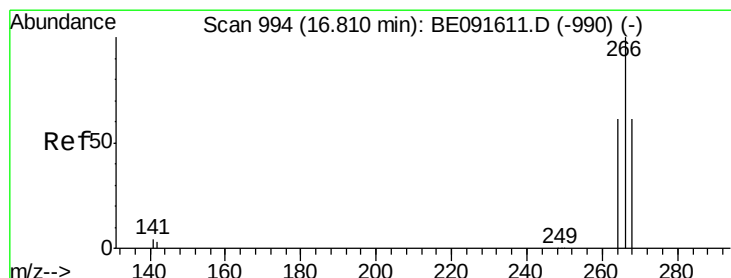
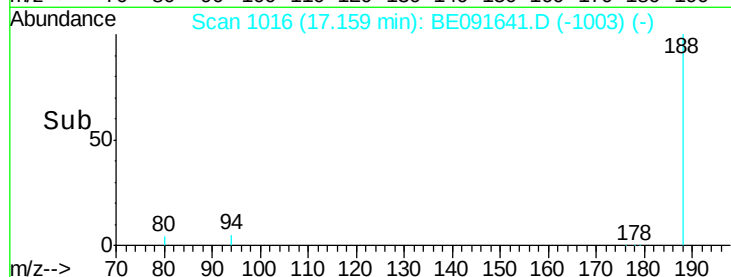
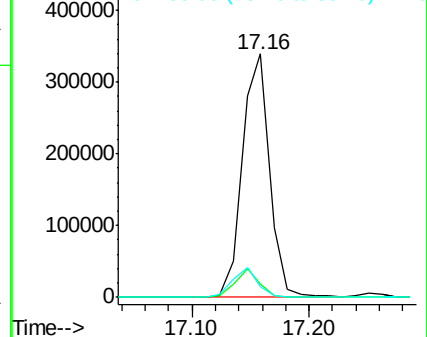
80 4.4 9.4 14.0#



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



#22

Pentachlorophenol

Concen: 0.24 ng

RT: 16.81 min Scan# 994

Delta R.T. 0.00 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

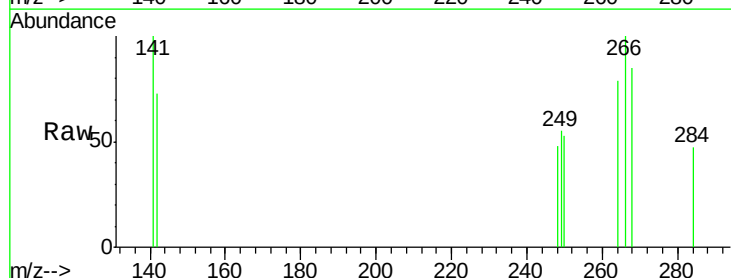
Tgt Ion:266 Resp: 149

Ion Ratio Lower Upper

266 100

268 85.2 58.2 87.2

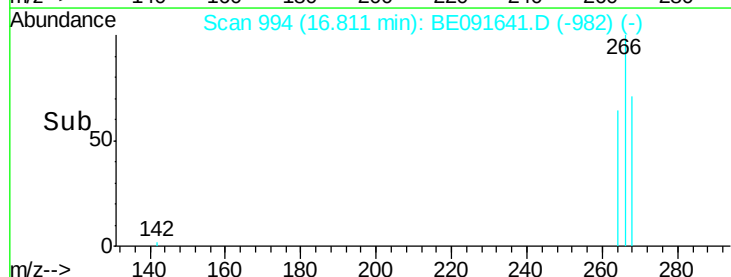
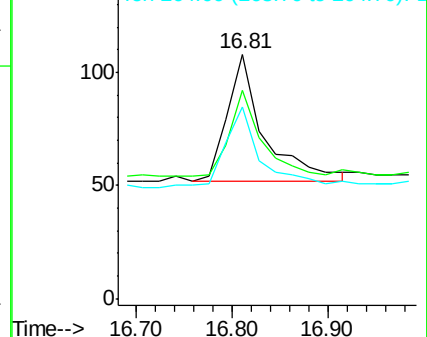
264 78.7 56.2 84.4

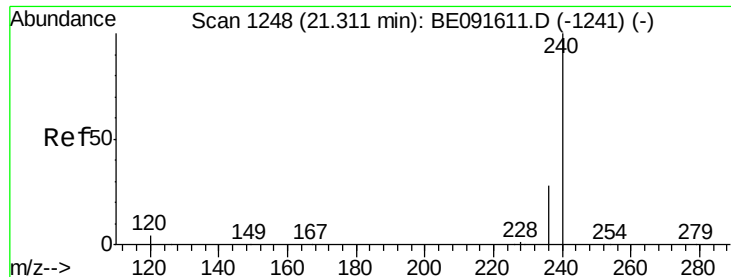


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

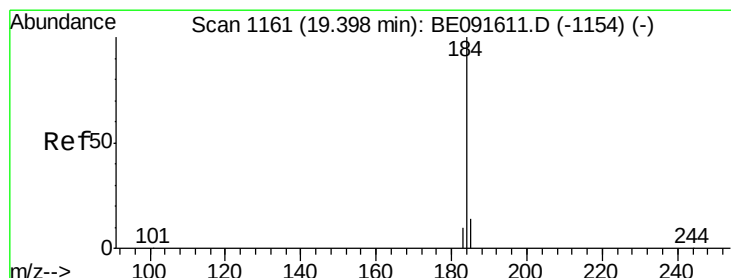
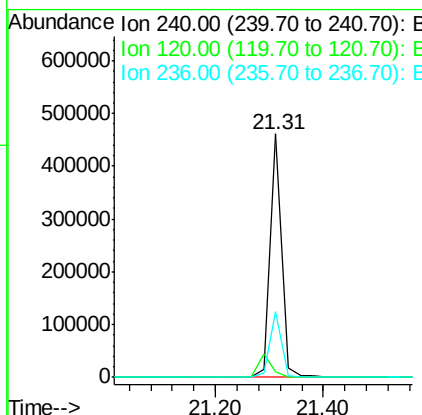
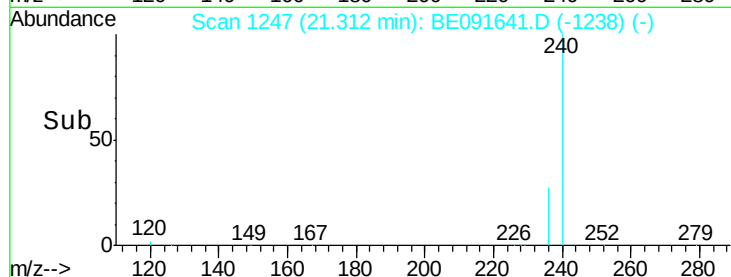
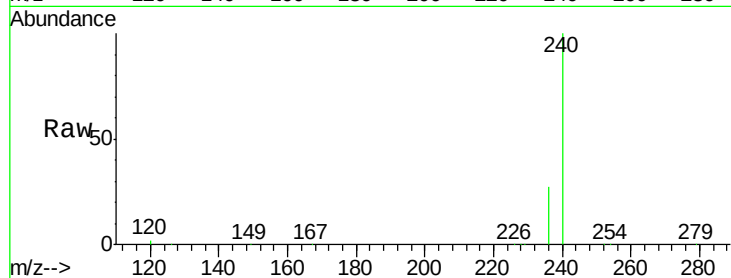




#26
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1247
Delta R.T. 0.00 min
Lab File: BE091641.D
Acq: 11 Apr 2016 23:01

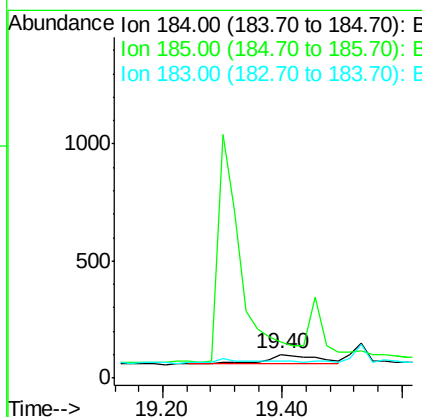
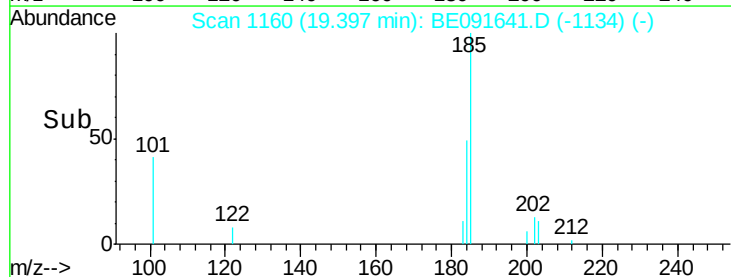
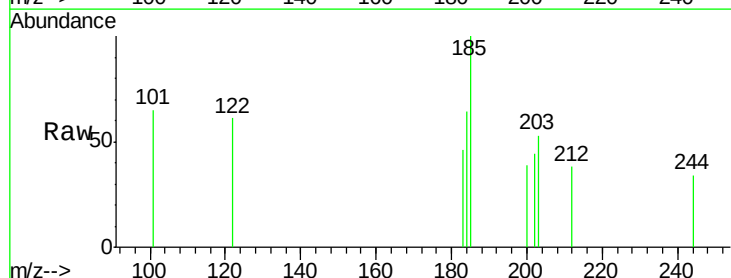
Instrument :
BNA_E
ClientSampleId :
KY038PS038-160330

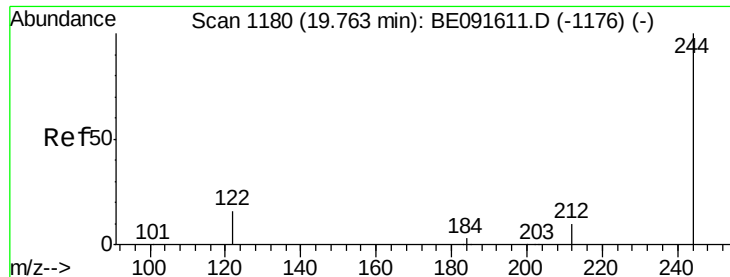
Tgt Ion:240 Resp: 697407
Ion Ratio Lower Upper
240 100
120 2.3 11.0 16.4#
236 27.1 21.7 32.5



#27
Benzidine
Concen: 0.34 ng
RT: 19.40 min Scan# 1160
Delta R.T. 0.00 min
Lab File: BE091641.D
Acq: 11 Apr 2016 23:01

Tgt Ion:184 Resp: 257
Ion Ratio Lower Upper
184 100
185 155.4 22.3 33.5#
183 72.3 16.4 24.6#





#29

Terphenyl-d14

Concen: 5.27 ng

RT: 19.76 min Scan# 1179

Delta R.T. -0.00 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

Instrument :

BNA_E

ClientSampleId :

KY038PS038-160330

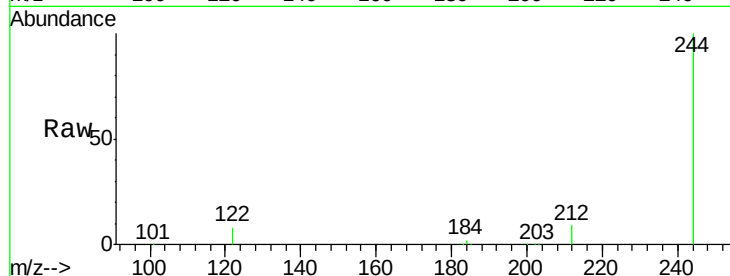
Tgt Ion:244 Resp: 458775

Ion Ratio Lower Upper

244 100

212 9.4 6.9 10.3

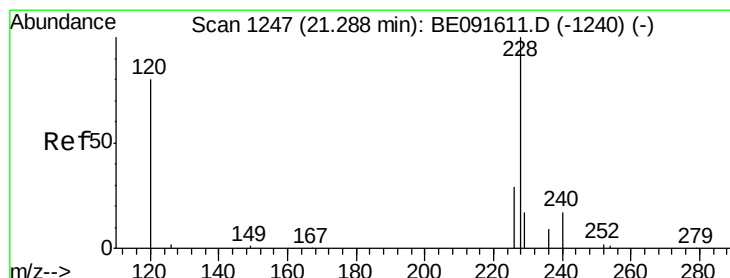
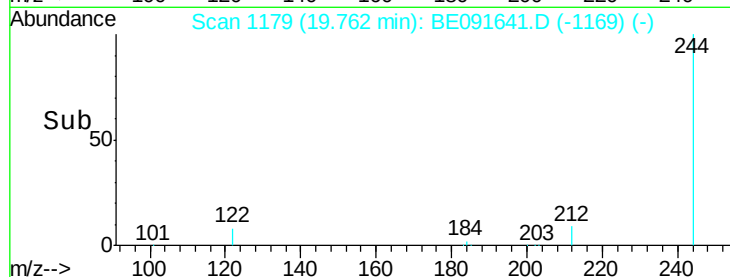
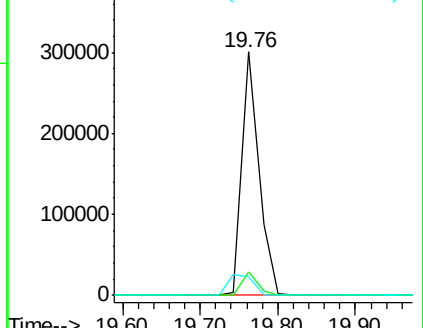
122 7.7 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.07 ng

RT: 21.29 min Scan# 1246

Delta R.T. 0.00 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

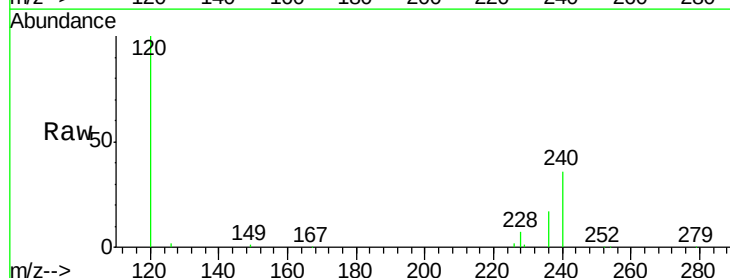
Tgt Ion:228 Resp: 10326

Ion Ratio Lower Upper

228 100

226 27.3 21.0 31.4

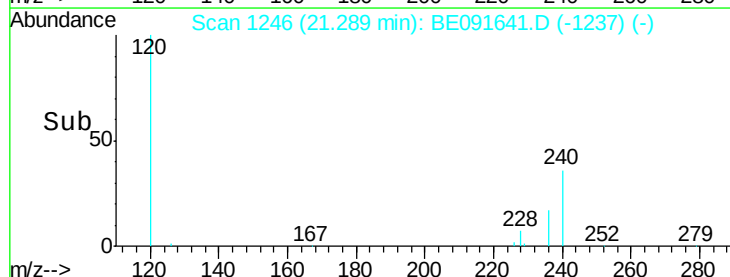
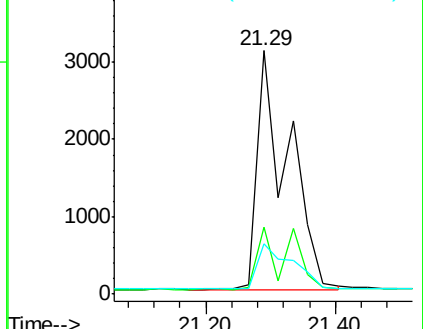
229 20.6 15.7 23.5

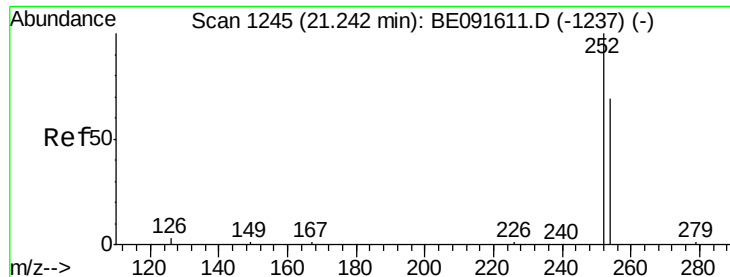


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

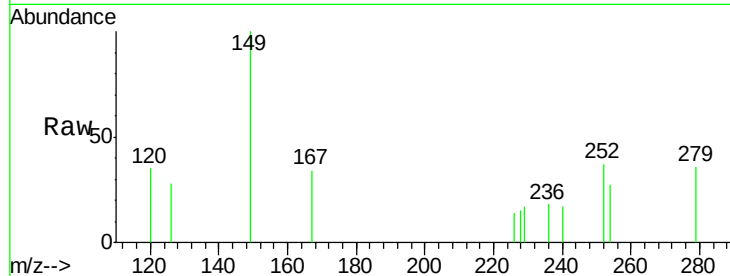




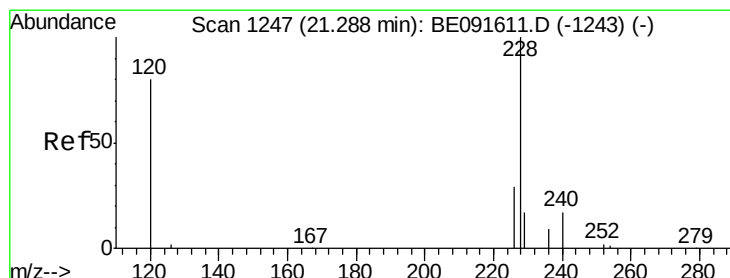
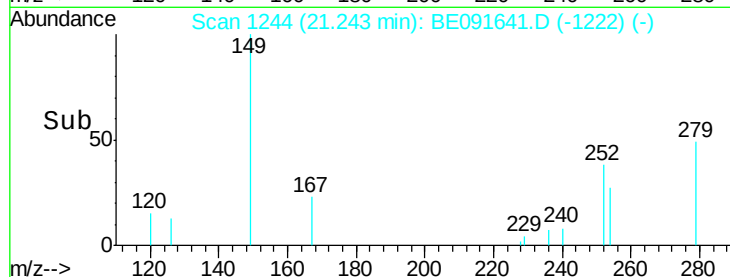
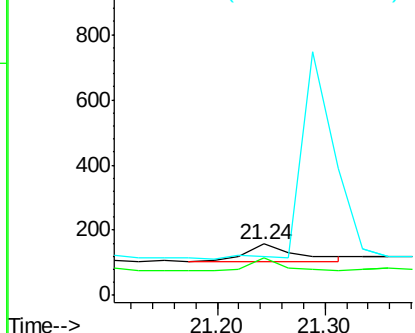
#31
 3,3'-Dichlorobenzidine
 Concen: 0.17 ng
 RT: 21.24 min Scan# 1244
 Delta R.T. 0.00 min
 Lab File: BE091641.D
 Acq: 11 Apr 2016 23:01

Instrument :
 BNA_E
 ClientSampleId :
 KY038PS038-160330

Tgt Ion: 252 Resp: 185
 Ion Ratio Lower Upper
 252 100
 254 72.8 51.1 76.7
 126 75.3 12.6 18.8#

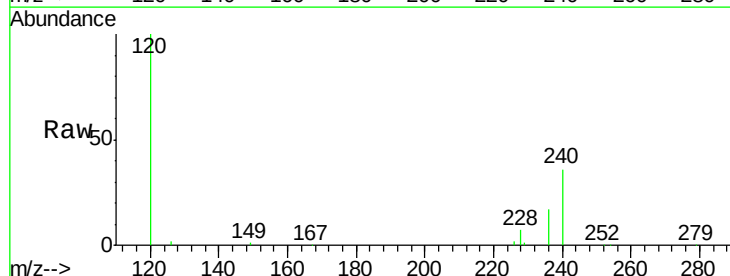


Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 254.00 (253.70 to 254.70): E
 Ion 126.00 (125.70 to 126.70): E

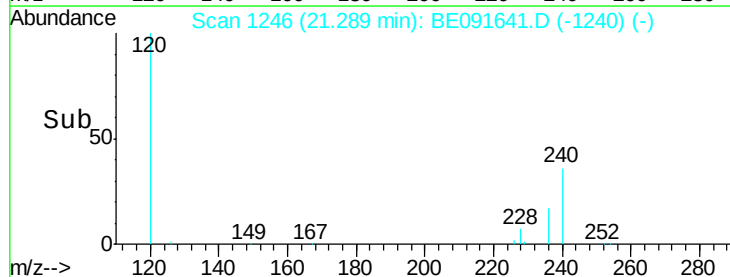
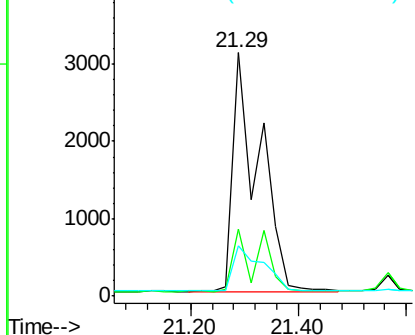


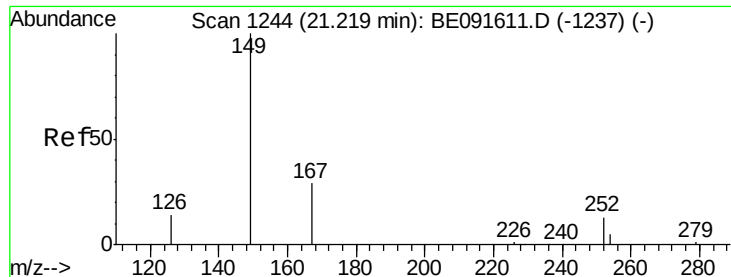
#32
 Chrysene
 Concen: 0.07 ng
 RT: 21.29 min Scan# 1246
 Delta R.T. -0.07 min
 Lab File: BE091641.D
 Acq: 11 Apr 2016 23:01

Tgt Ion: 228 Resp: 10401
 Ion Ratio Lower Upper
 228 100
 226 27.3 24.0 36.0
 229 20.6 15.9 23.9



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

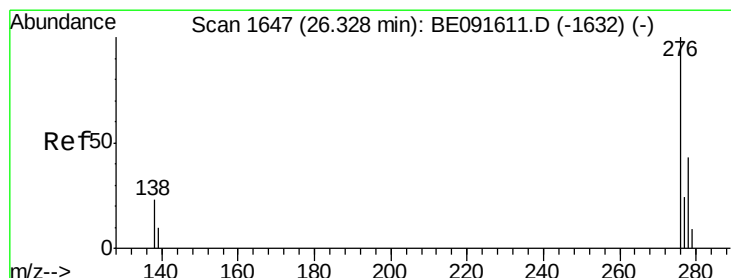
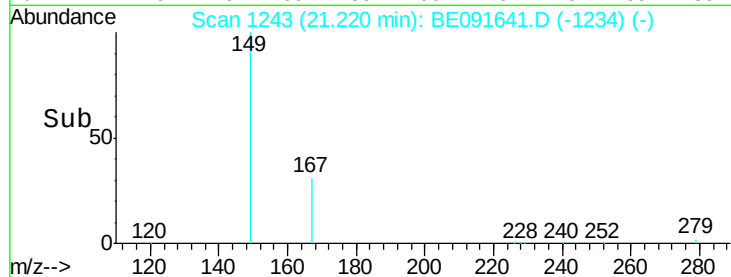
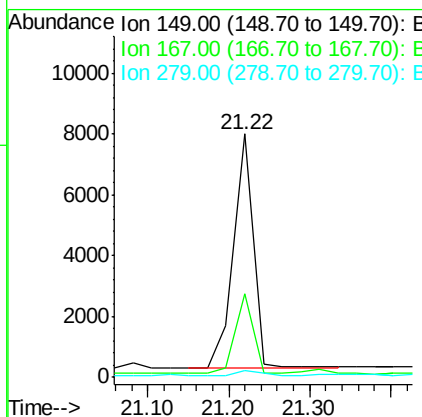
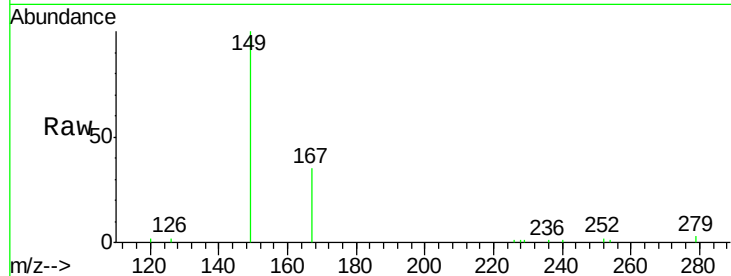




#33
 Bis(2-ethylhexyl)phthalate
 Concen: 0.37 ng
 RT: 21.22 min Scan# 1243
 Delta R.T. 0.00 min
 Lab File: BE091641.D
 Acq: 11 Apr 2016 23:01

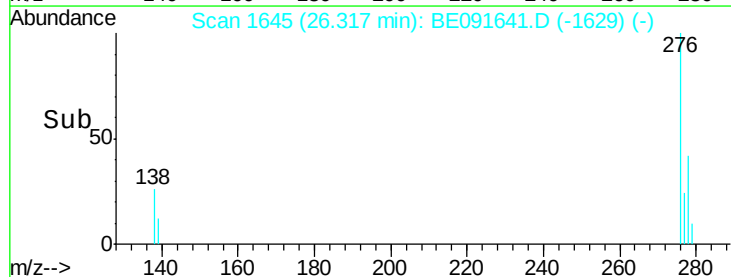
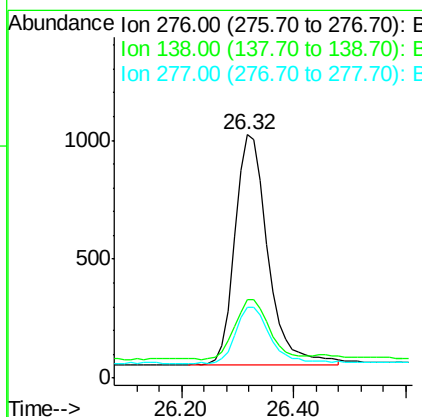
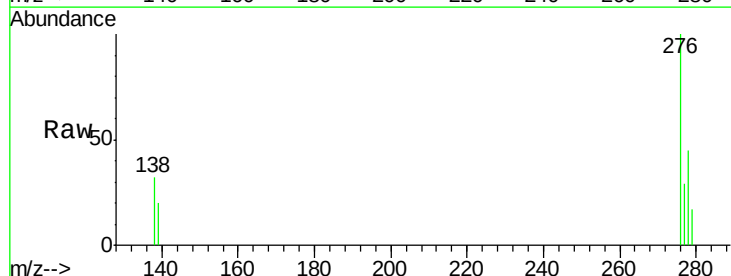
Instrument :
 BNA_E
 ClientSampleId :
 KY038PS038-160330

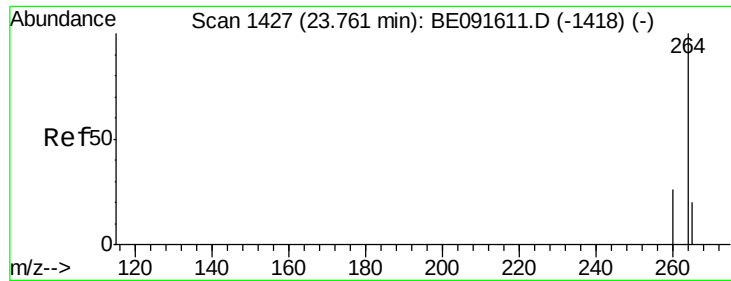
Tgt Ion:149 Resp: 12953
 Ion Ratio Lower Upper
 149 100
 167 30.6 19.5 29.3#
 279 2.6 10.0 15.0#



#34
 Indeno(1,2,3-cd)pyrene
 Concen: 0.03 ng
 RT: 26.32 min Scan# 1645
 Delta R.T. -0.01 min
 Lab File: BE091641.D
 Acq: 11 Apr 2016 23:01

Tgt Ion:276 Resp: 4004
 Ion Ratio Lower Upper
 276 100
 138 27.4 23.4 35.2
 277 25.2 19.8 29.8

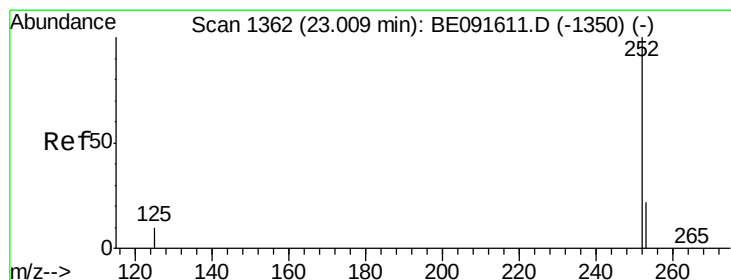
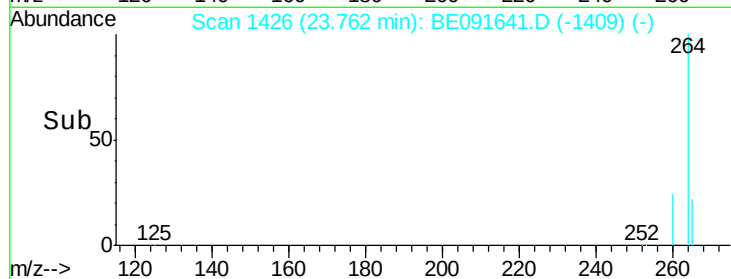
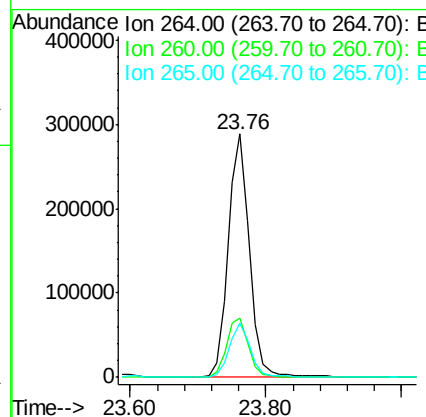
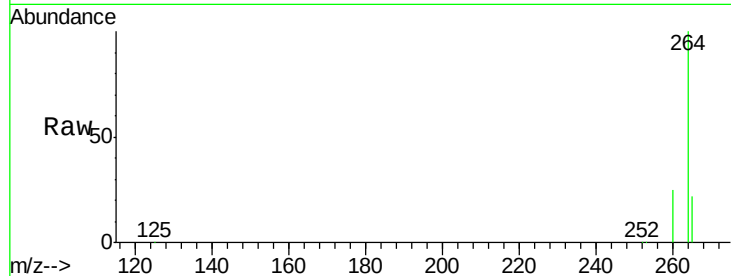




#35
Perylene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 1426
 Delta R.T. 0.00 min
 Lab File: BE091641.D
 Acq: 11 Apr 2016 23:01

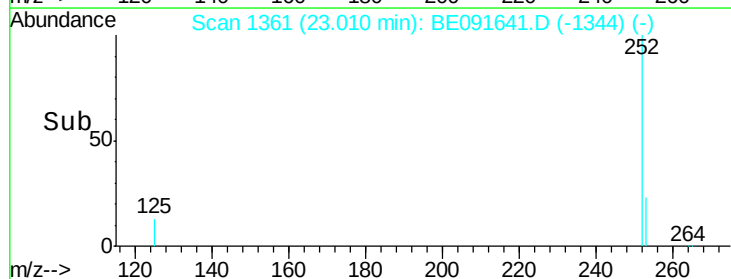
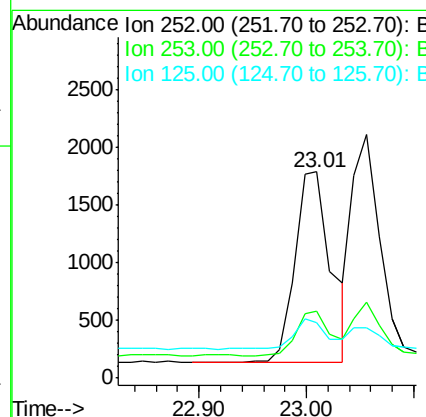
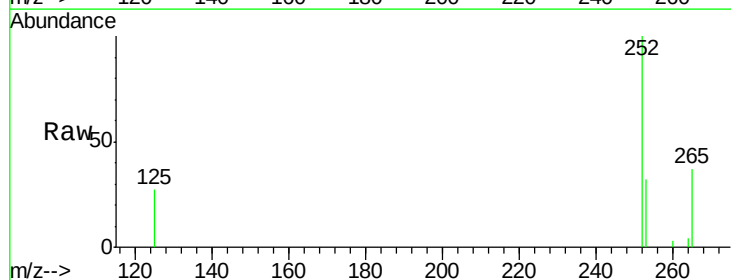
Instrument :
 BNA_E
 ClientSampleId :
 KY038PS038-160330

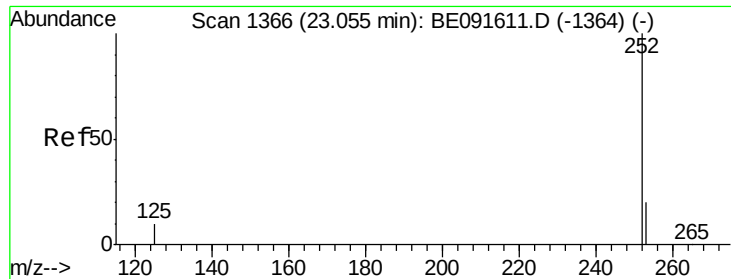
Tgt Ion: 264 Resp: 635439
 Ion Ratio Lower Upper
 264 100
 260 24.5 20.0 30.0
 265 22.2 17.5 26.3



#36
Benzo(b)fluoranthene
 Concen: 0.03 ng
 RT: 23.01 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: BE091641.D
 Acq: 11 Apr 2016 23:01

Tgt Ion: 252 Resp: 3874
 Ion Ratio Lower Upper
 252 100
 253 32.4 17.4 26.0#
 125 26.8 10.2 15.2#

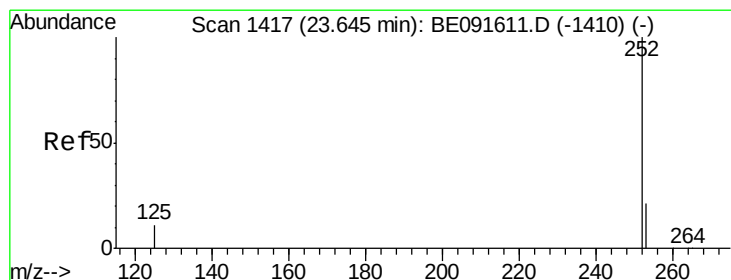
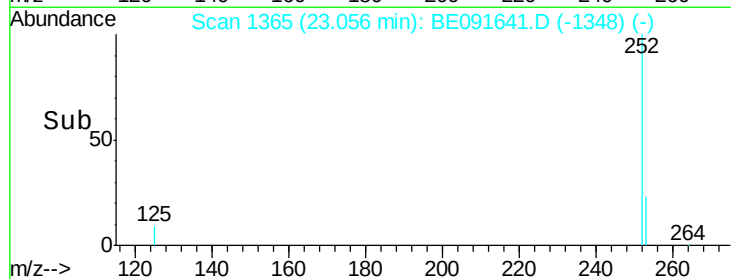
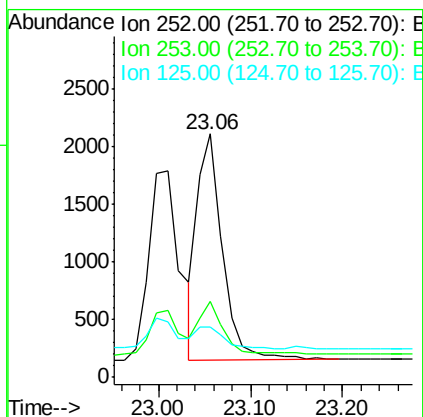
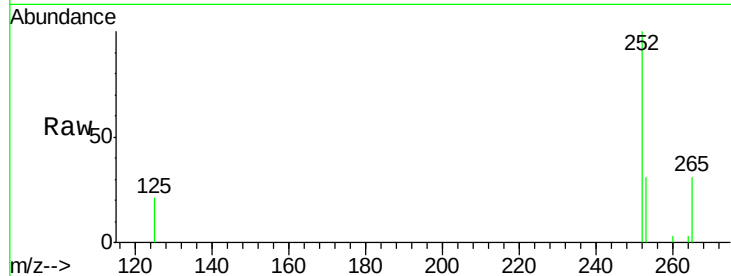




#37
Benzo(k)fluoranthene
Concen: 0.03 ng
RT: 23.06 min Scan# 1365
Delta R.T. 0.00 min
Lab File: BE091641.D
Acq: 11 Apr 2016 23:01

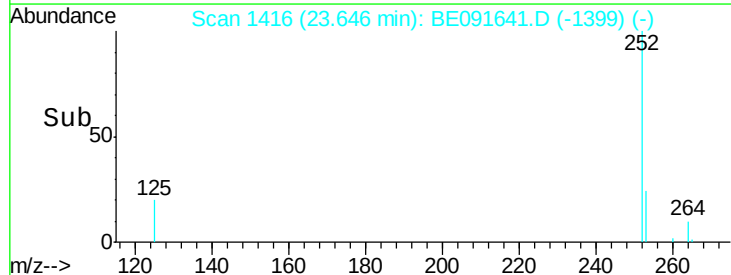
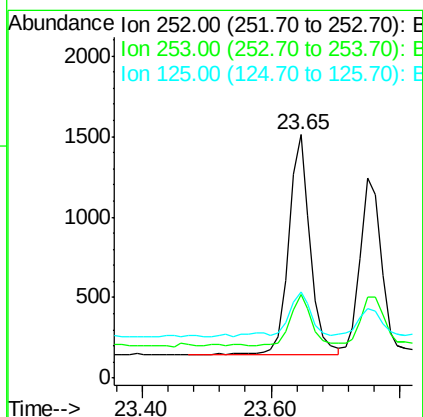
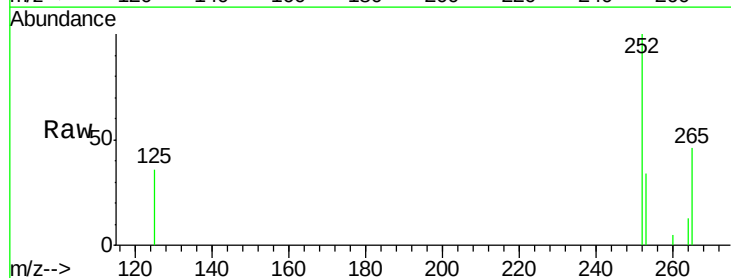
Instrument :
BNA_E
ClientSampleId :
KY038PS038-160330

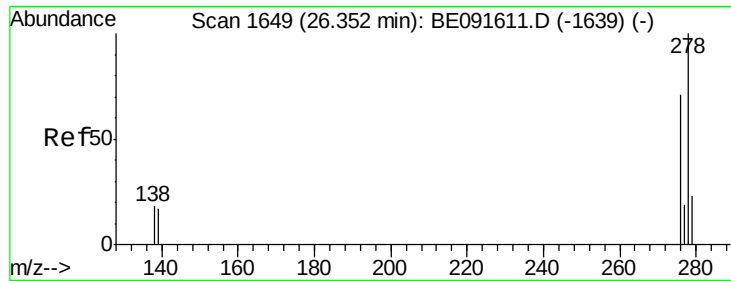
Tgt Ion: 252 Resp: 3708
Ion Ratio Lower Upper
252 100
253 31.0 17.6 26.4#
125 20.7 9.9 14.9#



#38
Benzo(a)pyrene
Concen: 0.02 ng
RT: 23.65 min Scan# 1416
Delta R.T. 0.00 min
Lab File: BE091641.D
Acq: 11 Apr 2016 23:01

Tgt Ion: 252 Resp: 3162
Ion Ratio Lower Upper
252 100
253 34.3 18.1 27.1#
125 35.6 11.0 16.4#





#39

Dibenzo(a,h)anthracene

Concen: 0.03 ng

RT: 26.35 min Scan# 1648

Delta R.T. 0.00 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

Instrument :

BNA_E

ClientSampleId :

KY038PS038-160330

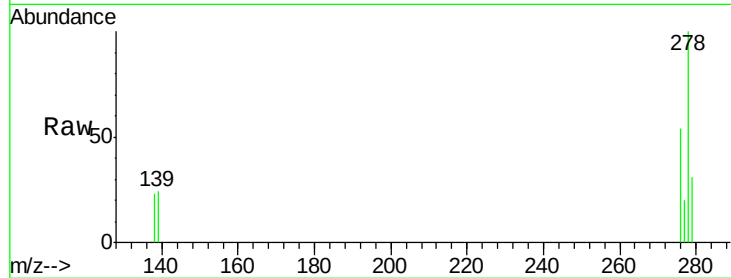
Tgt Ion: 278 Resp: 3777

Ion Ratio Lower Upper

278 100

139 23.6 16.0 24.0

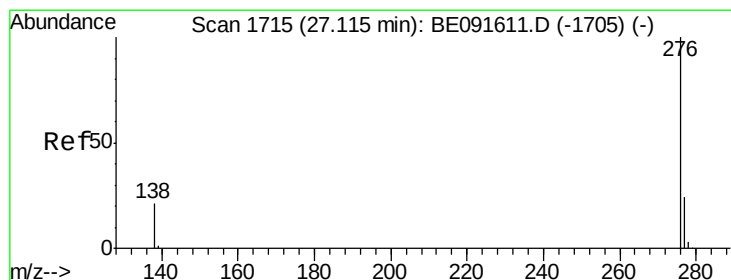
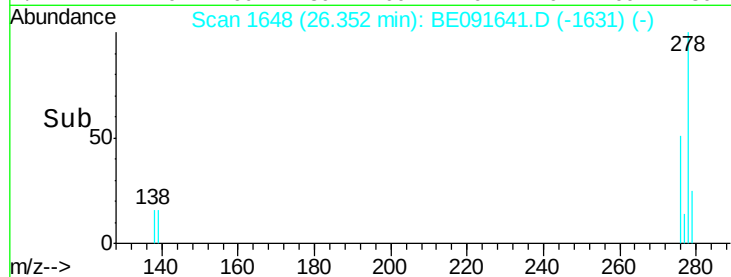
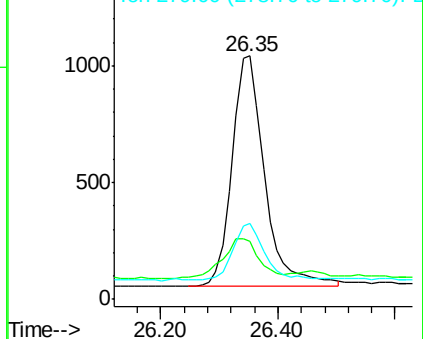
279 31.3 19.4 29.2#



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



#40

Benzo(g,h,i)perylene

Concen: 0.03 ng

RT: 27.10 min Scan# 1713

Delta R.T. -0.01 min

Lab File: BE091641.D

Acq: 11 Apr 2016 23:01

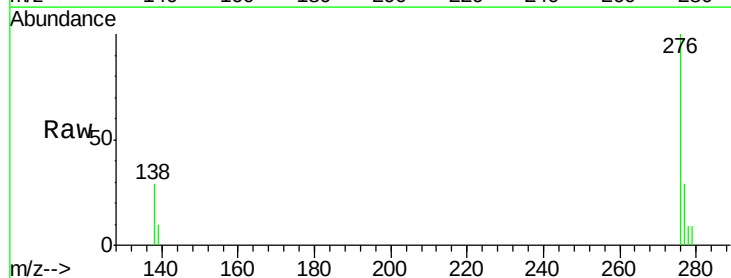
Tgt Ion: 276 Resp: 3555

Ion Ratio Lower Upper

276 100

277 28.6 18.6 28.0#

138 28.8 20.4 30.6



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

