

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031616\
 Data File : BE091454.D
 Acq On : 16 Mar 2016 21:51
 Operator : UM/SJ
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 17 07:09:23 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIM-BE031616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 17 07:07:36 2016
 Response via : Initial Calibration

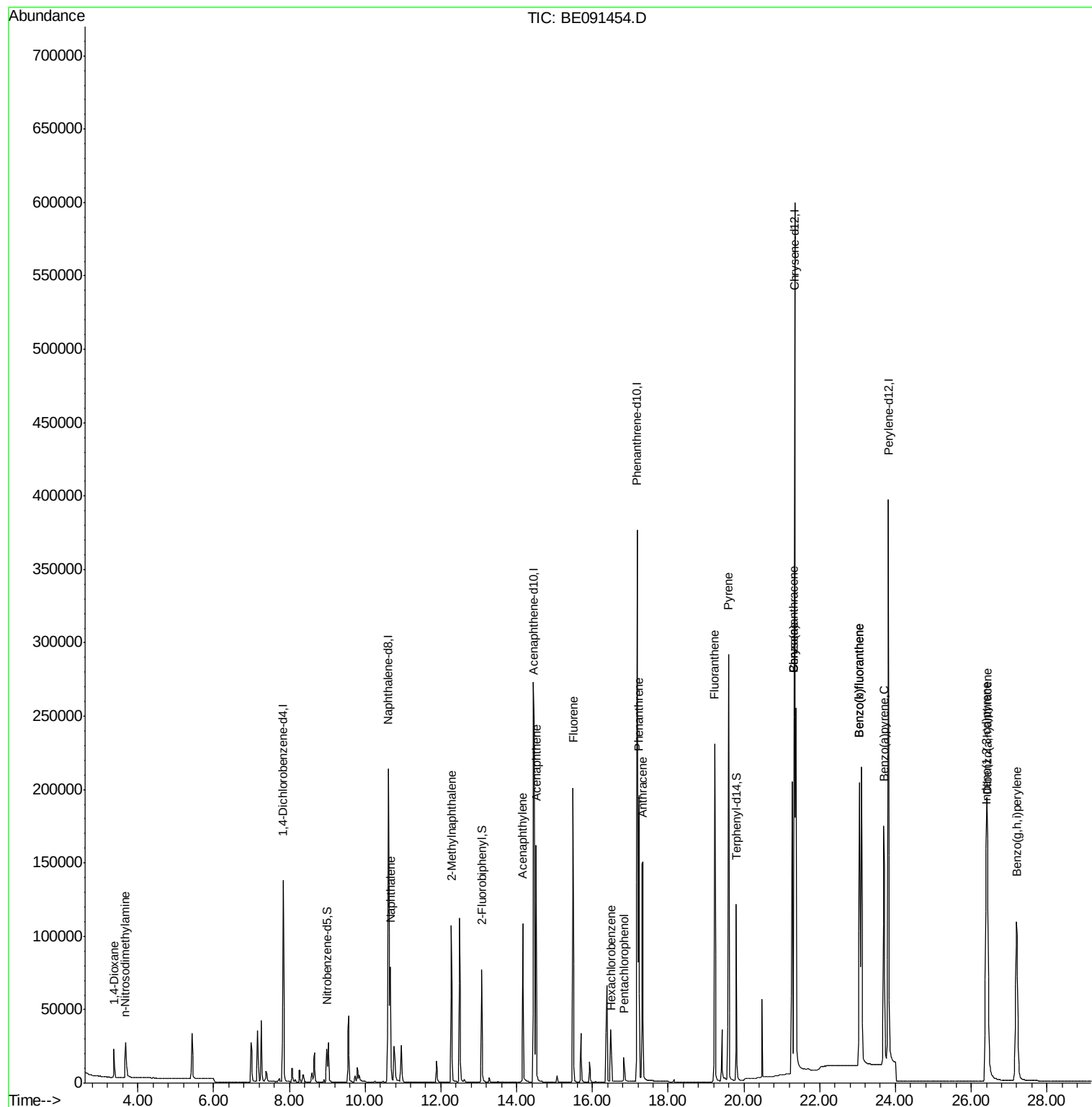
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	69070	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	319609	5.00	ng	0.00
8) Acenaphthene-d10	14.46	164	198769	5.00	ng	0.01
13) Phenanthrene-d10	17.18	188	495206	5.00	ng	0.00
19) Chrysene-d12	21.34	240	646028	5.00	ng	0.00
25) Perylene-d12	23.81	264	596612	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.99	82	22439	1.51	ng	0.00
9) 2-Fluorobiphenyl	13.08	172	82582	1.71	ng	0.00
21) Terphenyl-d14	19.80	244	147388	1.51	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	3.37	88	12924	2.03	ng	# 100
3) n-Nitrosodimethylamine	3.66	42	21126	2.87	ng	# 100
6) Naphthalene	10.67	128	124677	1.69	ng	99
7) 2-Methylnaphthalene	12.27	142	83700	1.91	ng	96
10) Acenaphthylene	14.16	152	136675	0.46	ng	# 100
11) Acenaphthene	14.51	154	97315	1.63	ng	# 100
12) Fluorene	15.49	166	127608	1.65	ng	# 100
14) Hexachlorobenzene	16.50	284	33979	1.21	ng	# 100
15) Pentachlorophenol	16.83	266	14161	2.29	ng	# 80
16) Phenanthrene	17.23	178	225557	1.33	ng	# 100
17) Anthracene	17.32	178	204031	0.84	ng	# 100
18) Fluoranthene	19.22	202	258250	1.05	ng	# 67
20) Pyrene	19.59	202	289701	1.59	ng	# 93
22) Benzo(a)anthracene	21.31	228	338620	1.52	ng	97
23) Chrysene	21.31	228	338567	1.46	ng	# 87
24) Indeno(1,2,3-cd)pyrene	26.40	276	321937	1.63	ng	# 100
26) Benzo(b)fluoranthene	23.04	252	324621	1.86	ng	93
27) Benzo(k)fluoranthene	23.04	252	324621	2.02	ng	94
28) Benzo(a)pyrene	23.69	252	275345	1.87	ng	# 92
29) Dibenzo(a,h)anthracene	26.43	278	268662	1.90	ng	97
30) Benzo(g,h,i)perylene	27.20	276	278175	1.84	ng	98

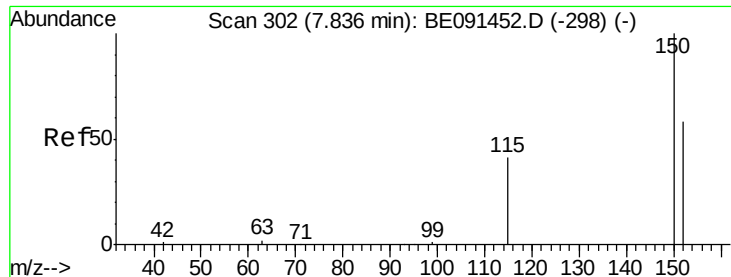
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

Instrument :

BNA_E

ClientSampleId :

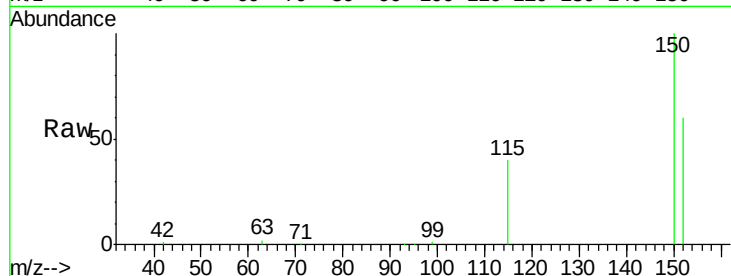
Tot Ion:152 Resp: 69070

Ion Ratio Lower Upper

152 100

150 165.4 136.8 205.2

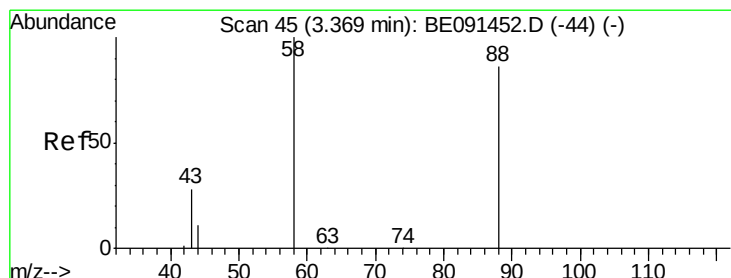
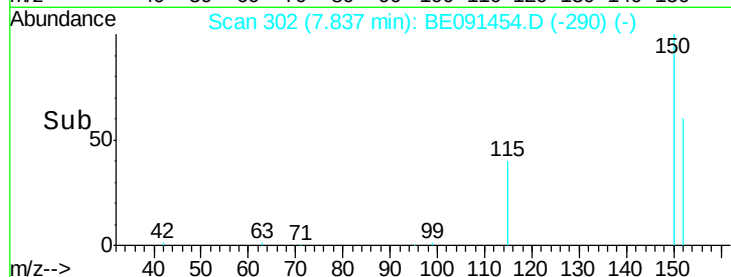
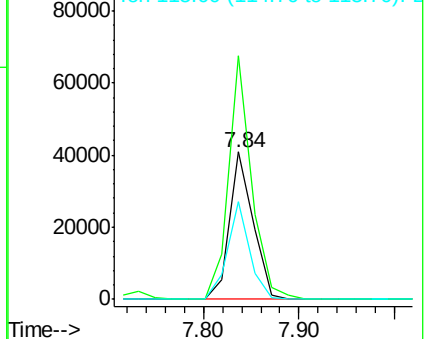
115 66.1 56.9 85.3



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: 2.03 ng

RT: 3.37 min Scan# 45

Delta R.T. -0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

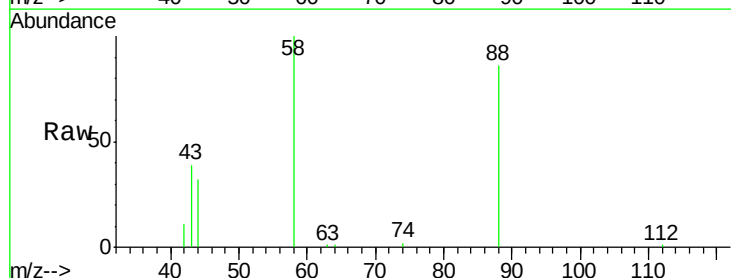
Tgt Ion: 88 Resp: 12924

Ion Ratio Lower Upper

88 100

58 84.9 0.0 0.0#

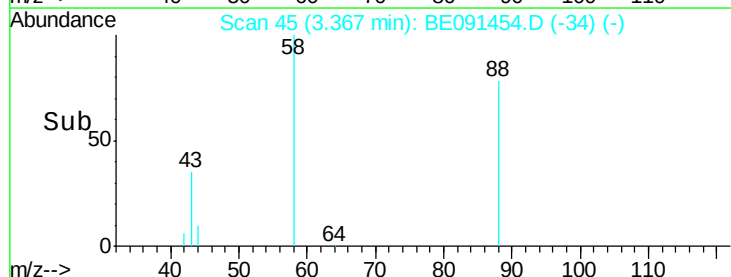
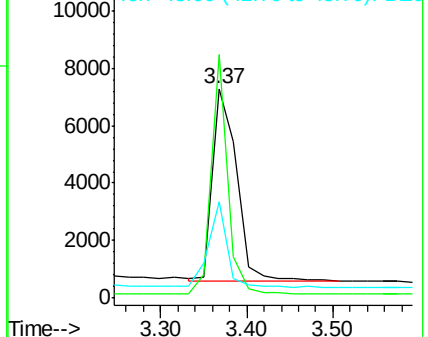
43 35.0 0.0 0.0#

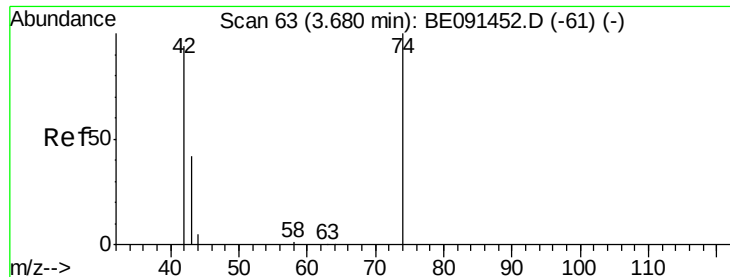


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 2.87 ng

RT: 3.66 min Scan# 62

Delta R.T. -0.02 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

Instrument :

BNA_E

ClientSampleId :

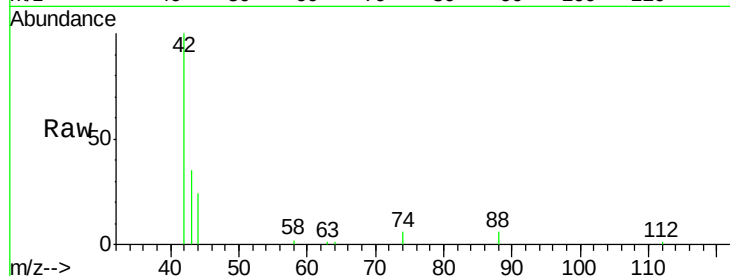
Tot Ion: 42 Resp: 21126

Ion Ratio Lower Upper

42 100

74 105.7 0.0 0.0#

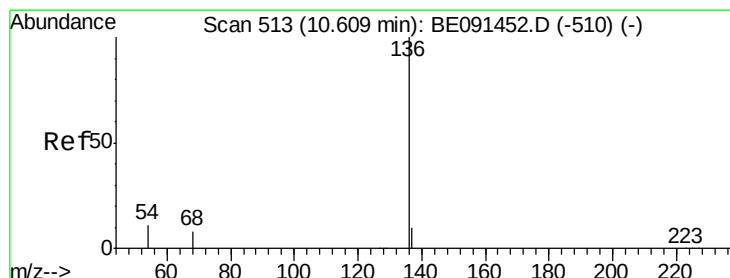
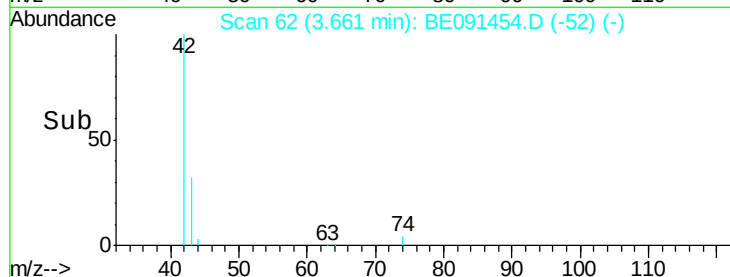
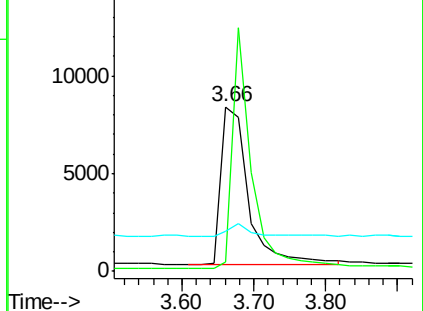
44 7.8 0.0 0.0#



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: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

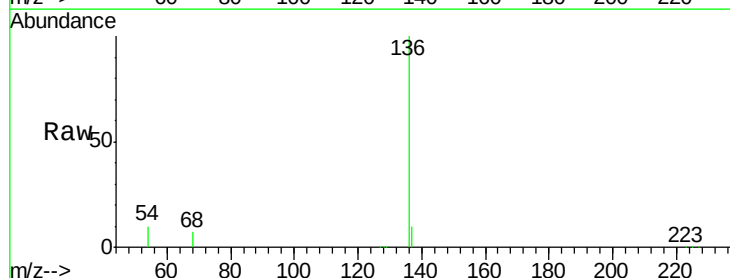
Tgt Ion: 136 Resp: 319609

Ion Ratio Lower Upper

136 100

137 10.3 8.0 12.0

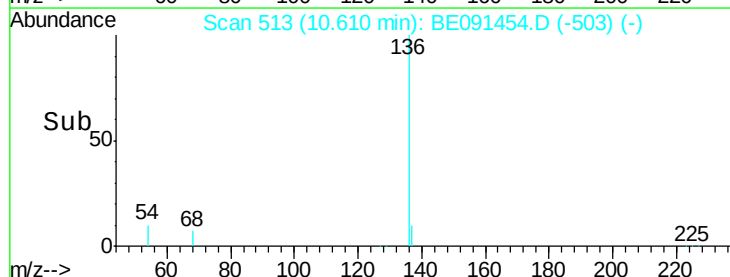
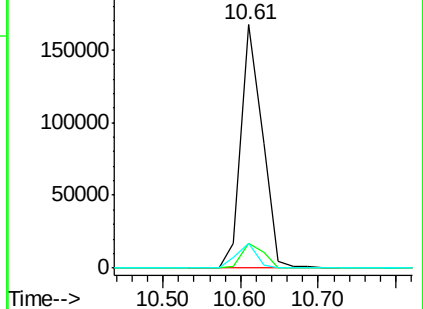
54 10.0 9.1 13.7

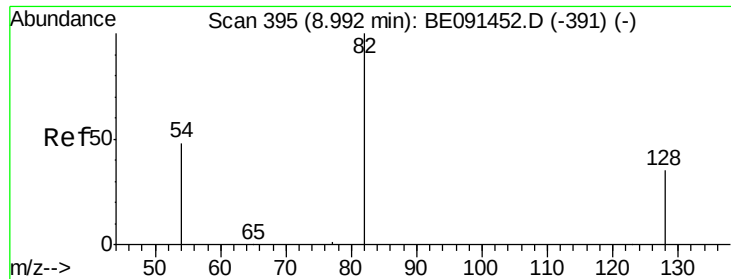


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 1.51 ng

RT: 8.99 min Scan# 395

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

Instrument :

BNA_E

ClientSampleId :

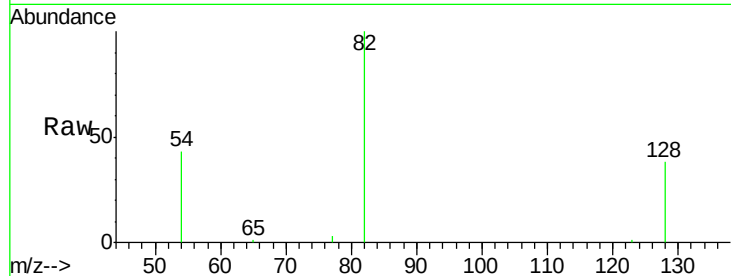
Tot Ion: 82 Resp: 22439

Ion Ratio Lower Upper

82 100

128 38.2 29.4 44.2

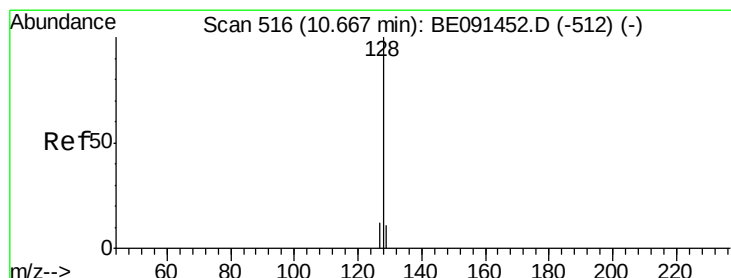
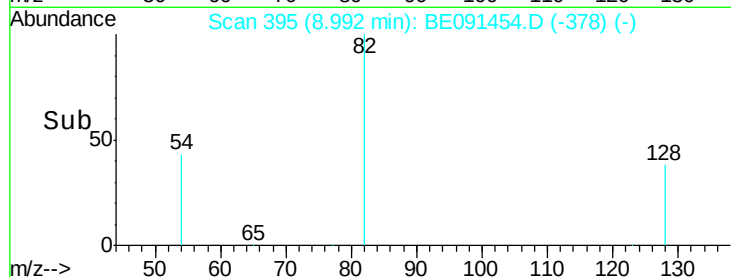
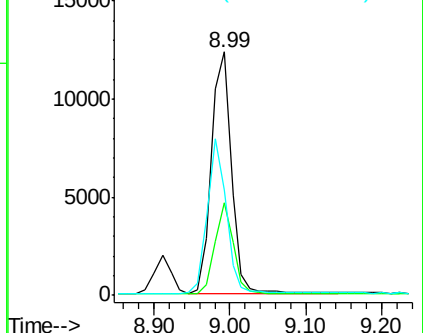
54 43.4 39.8 59.8



Abundance Ion 82.00 (81.70 to 82.70): BE091452.D (-391) (-)

Ion 128.00 (127.70 to 128.70): BE091452.D (-391) (-)

Ion 54.00 (53.70 to 54.70): BE091452.D (-391) (-)



#6

Naphthalene

Concen: 1.69 ng

RT: 10.67 min Scan# 516

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

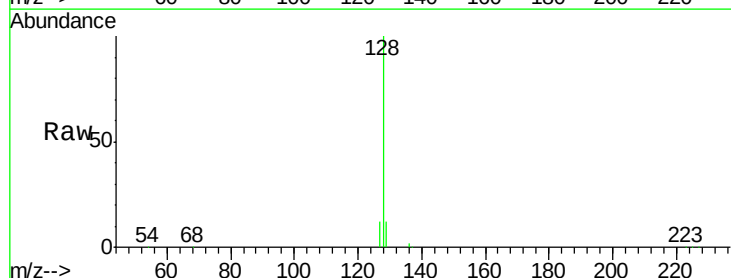
Tgt Ion: 128 Resp: 124677

Ion Ratio Lower Upper

128 100

129 12.0 9.4 14.0

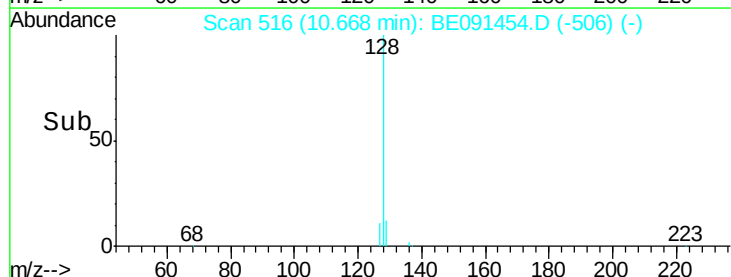
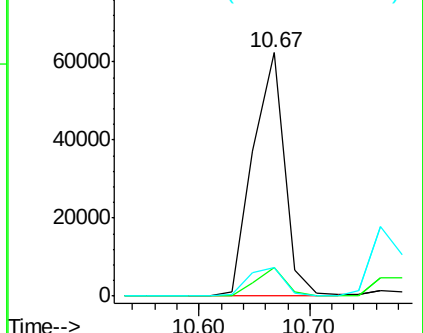
127 11.5 9.7 14.5

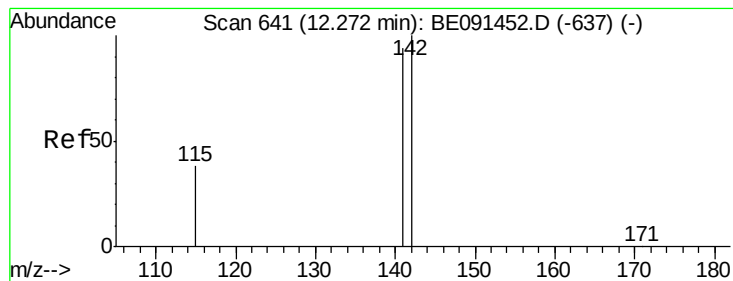


Abundance Ion 128.00 (127.70 to 128.70): BE091452.D (-512) (-)

Ion 129.00 (128.70 to 129.70): BE091452.D (-512) (-)

Ion 127.00 (126.70 to 127.70): BE091452.D (-512) (-)





#7

2-Methylnaphthalene

Concen: 1.91 ng

RT: 12.27 min Scan# 641

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

Instrument :

BNA_E

ClientSampleId :

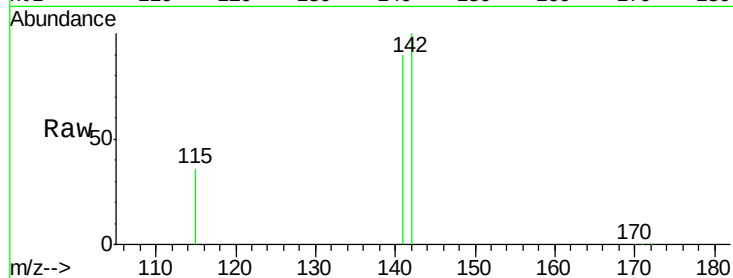
Tot Ion:142 Resp: 83700

Ion Ratio Lower Upper

142 100

141 89.8 75.0 112.4

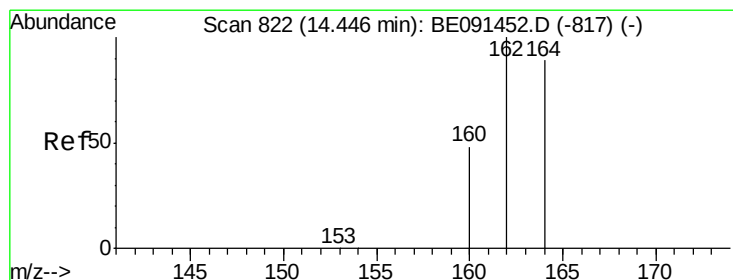
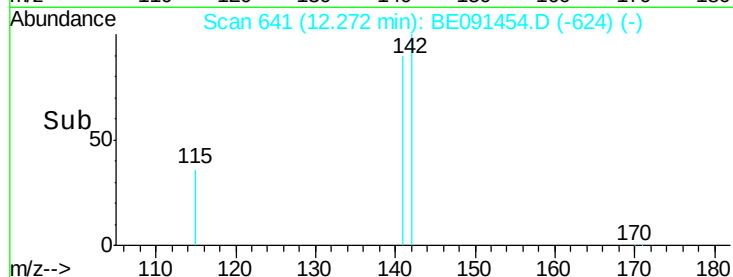
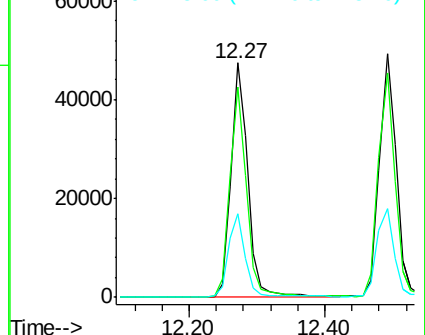
115 35.9 30.8 46.2



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: 14.46 min Scan# 823

Delta R.T. 0.01 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

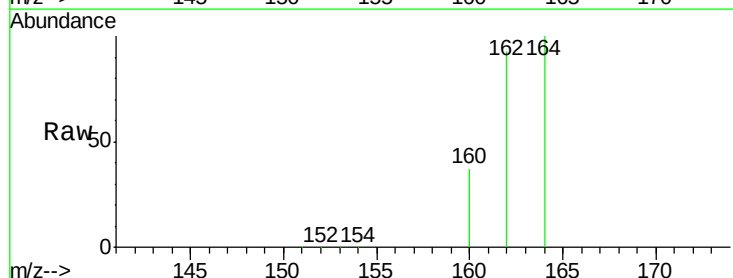
Tgt Ion:164 Resp: 198769

Ion Ratio Lower Upper

164 100

162 93.1 89.8 134.8

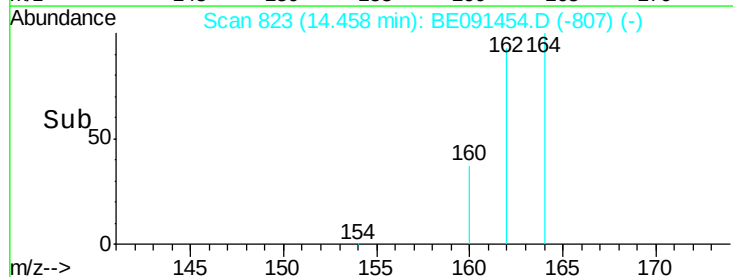
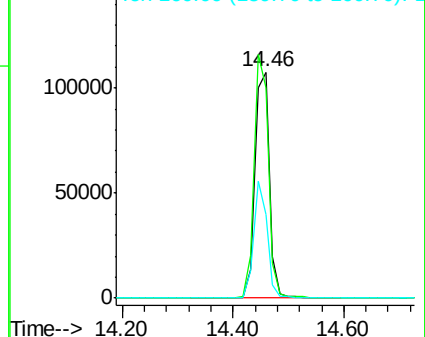
160 36.8 43.1 64.7#

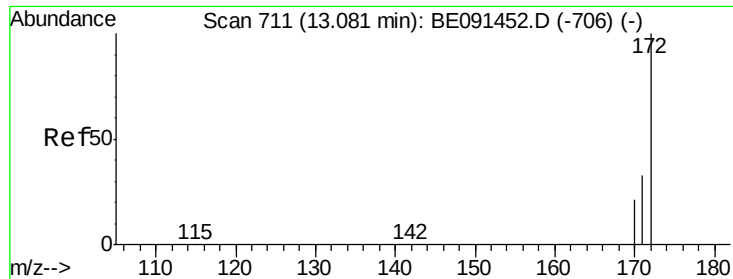


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 1.71 ng

RT: 13.08 min Scan# 711

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

Instrument :

BNA_E

ClientSampleId :

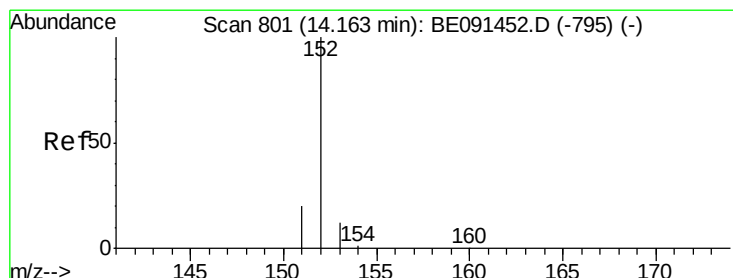
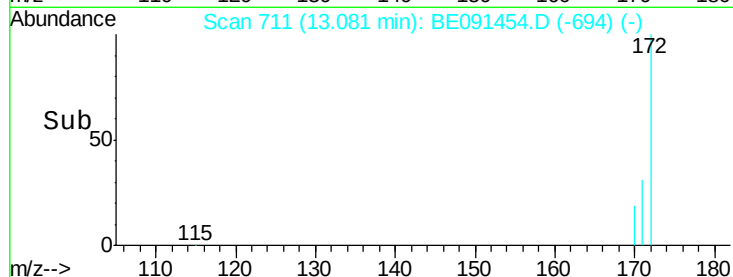
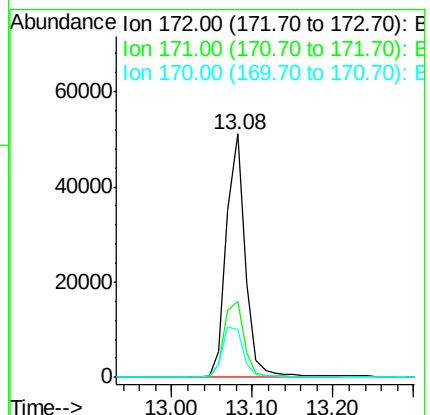
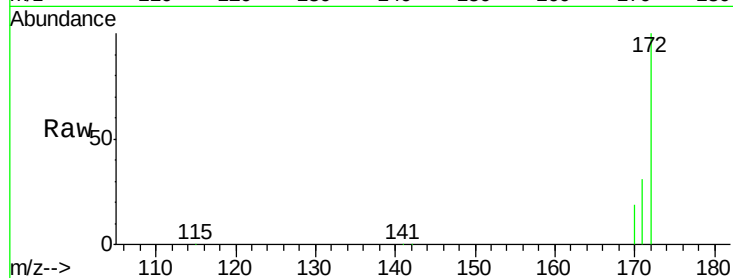
Tot Ion:172 Resp: 82582

Ion Ratio Lower Upper

172 100

171 31.2 26.7 40.1

170 19.5 17.4 26.2



#10

Acenaphthylene

Concen: 0.46 ng

RT: 14.16 min Scan# 801

Delta R.T. -0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

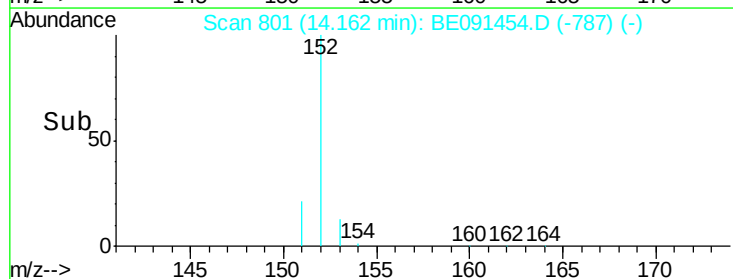
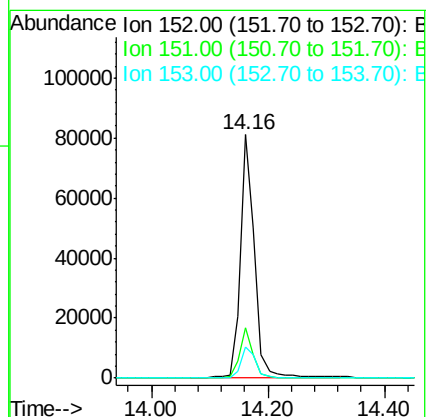
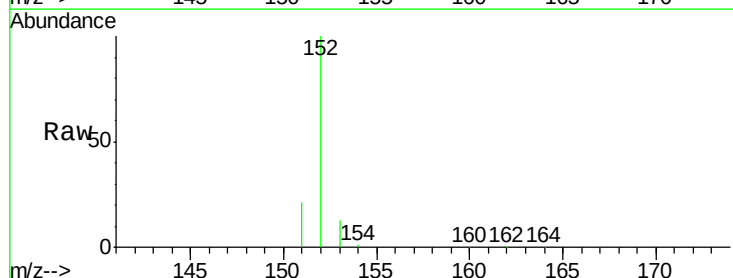
Tgt Ion:152 Resp: 136675

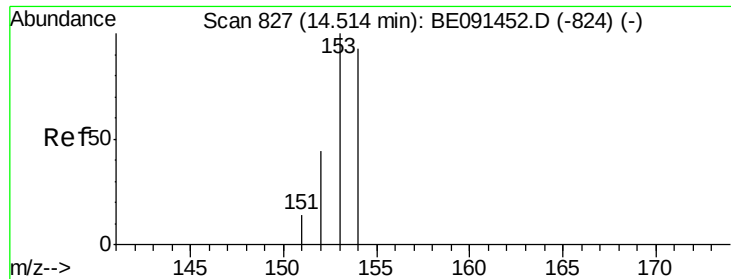
Ion Ratio Lower Upper

152 100

151 19.5 0.0 0.0#

153 13.2 0.0 0.0#

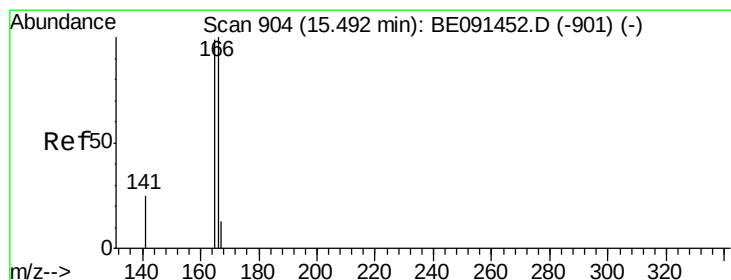
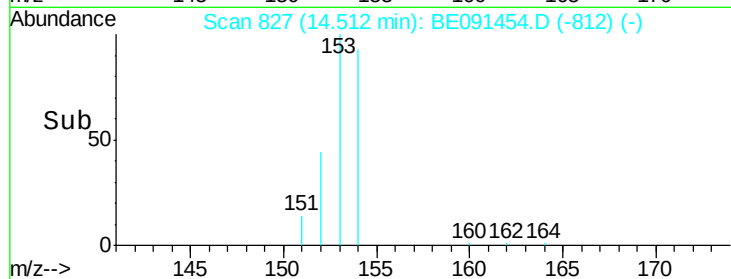
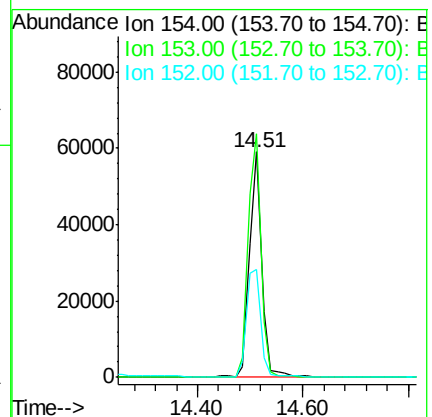
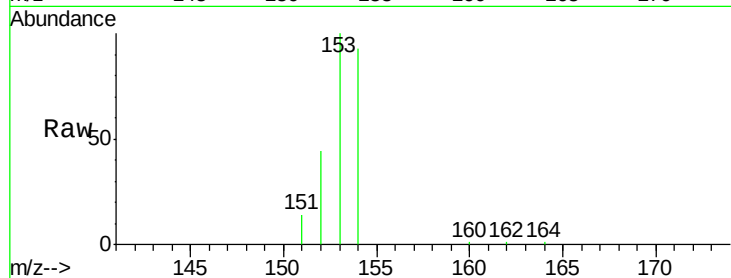




#11
Acenaphthene
Concen: 1.63 ng
RT: 14.51 min Scan# 827
Delta R.T. -0.00 min
Lab File: BE091454.D
Acq: 16 Mar 2016 21:51

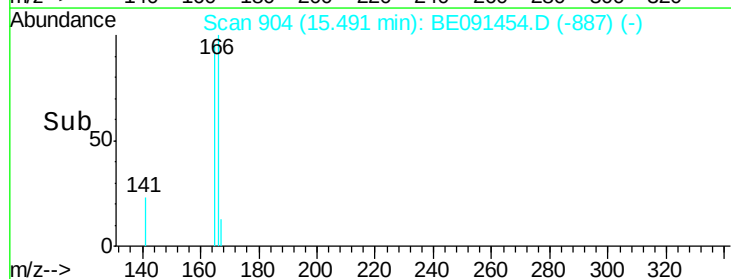
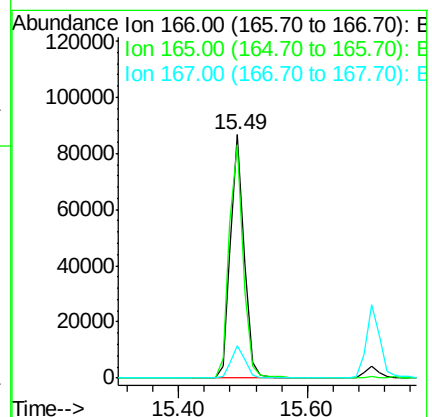
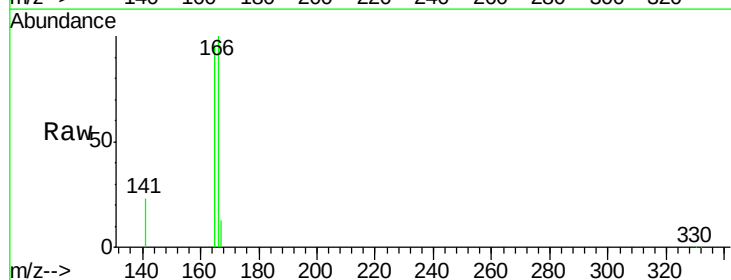
Instrument :
BNA_E
ClientSampleId :

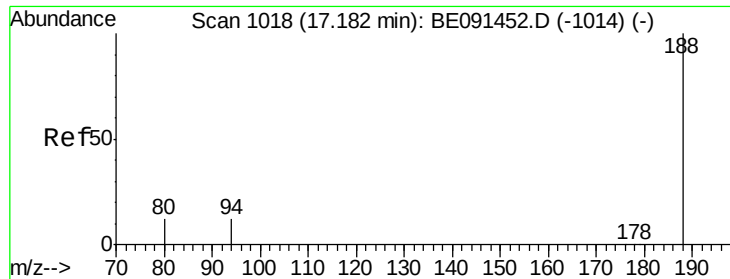
Tot Ion:154 Resp: 97315
Ion Ratio Lower Upper
154 100
153 111.5 0.0 0.0#
152 54.6 0.0 0.0#



#12
Fluorene
Concen: 1.65 ng
RT: 15.49 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE091454.D
Acq: 16 Mar 2016 21:51

Tgt Ion:166 Resp: 127608
Ion Ratio Lower Upper
166 100
165 98.9 0.0 0.0#
167 13.5 0.0 0.0#

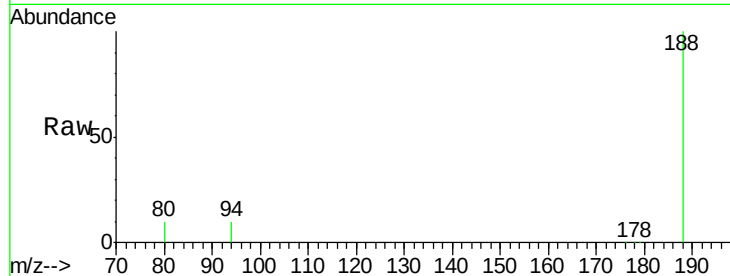




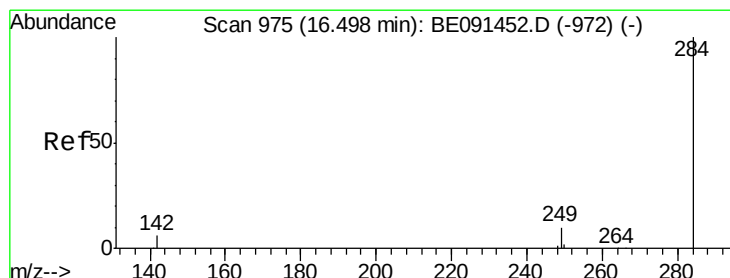
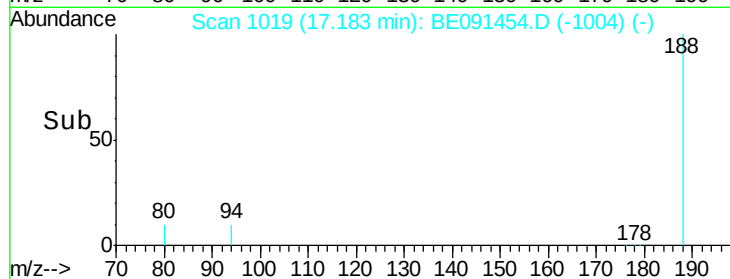
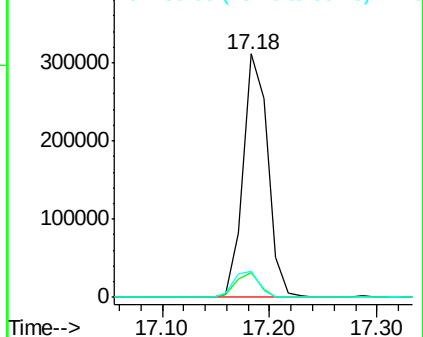
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1019
Delta R.T. 0.00 min
Lab File: BE091454.D
Acq: 16 Mar 2016 21:51

Instrument :
BNA_E
ClientSampleId :

Tot Ion:188 Resp: 495206
Ion Ratio Lower Upper
188 100
94 10.2 9.5 14.3
80 10.4 9.8 14.8

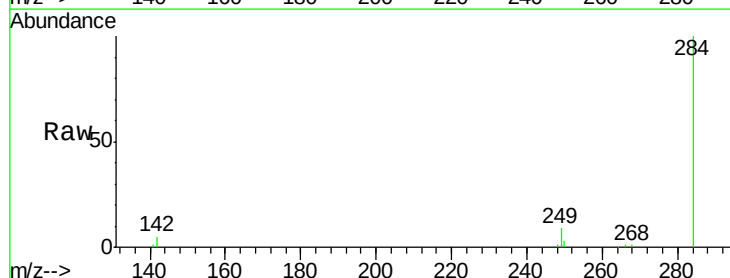


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

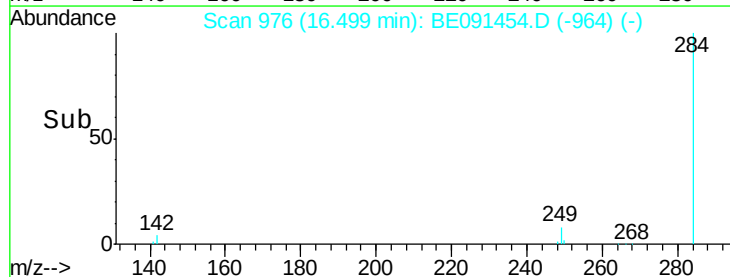
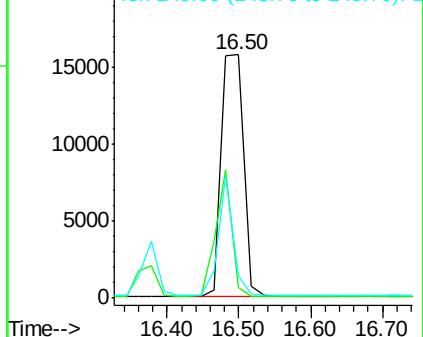


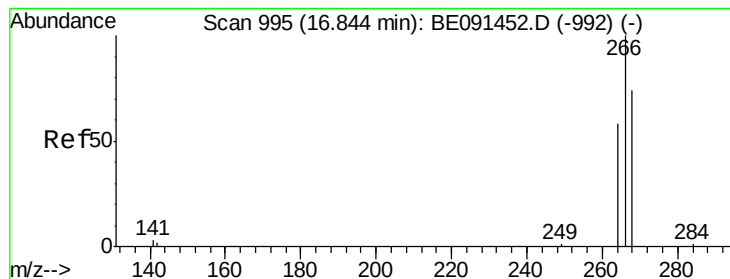
#14
Hexachlorobenzene
Concen: 1.21 ng
RT: 16.50 min Scan# 976
Delta R.T. 0.00 min
Lab File: BE091454.D
Acq: 16 Mar 2016 21:51

Tgt Ion:284 Resp: 33979
Ion Ratio Lower Upper
284 100
142 38.4 0.0 0.0#
249 32.4 0.0 0.0#



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: 2.29 ng

RT: 16.83 min Scan# 995

Delta R.T. -0.02 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

Instrument :

BNA_E

ClientSampleId :

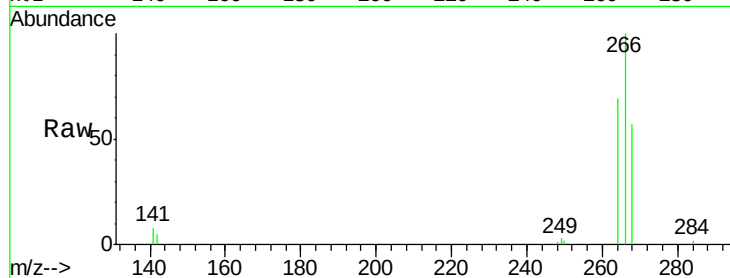
Tot Ion:266 Resp: 14161

Ion Ratio Lower Upper

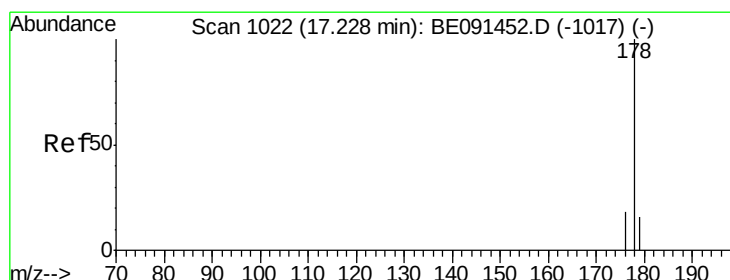
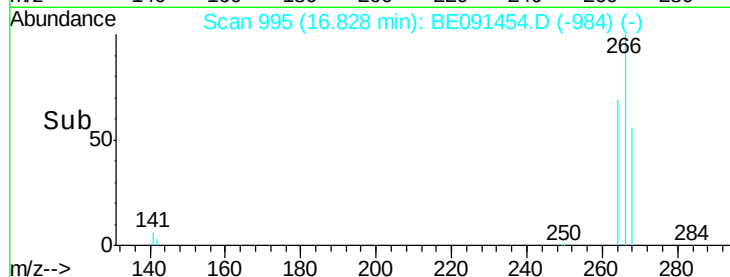
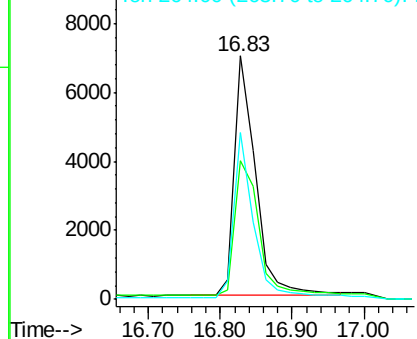
266 100

268 56.9 61.0 91.6#

264 68.7 45.7 68.5#



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: 1.33 ng

RT: 17.23 min Scan# 1023

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

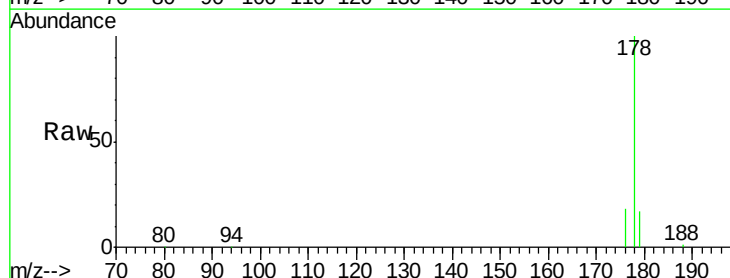
Tgt Ion:178 Resp: 225557

Ion Ratio Lower Upper

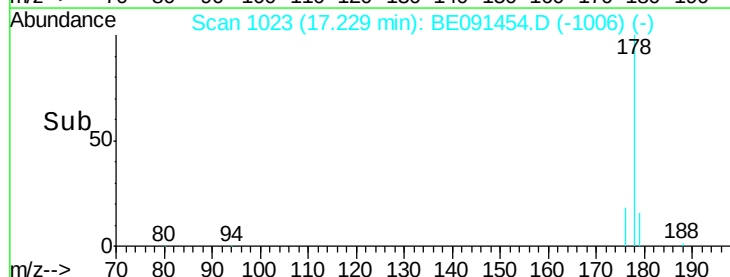
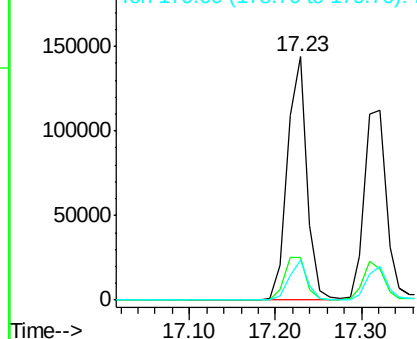
178 100

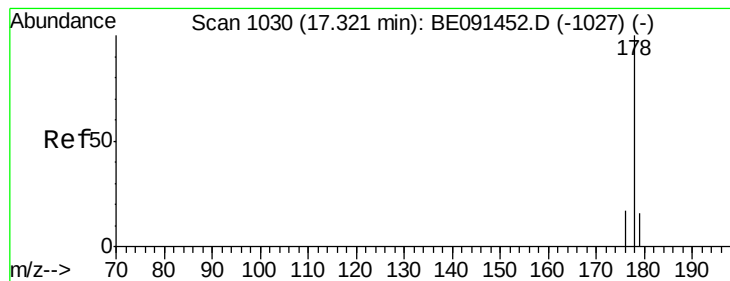
176 19.5 0.0 0.0#

179 15.7 0.0 0.0#



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.84 ng

RT: 17.32 min Scan# 1031

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

Instrument :

BNA_E

ClientSampleId :

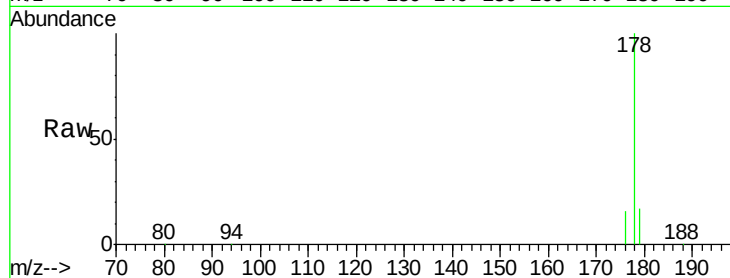
Tot Ion:178 Resp: 204031

Ion Ratio Lower Upper

178 100

176 18.5 0.0 0.0#

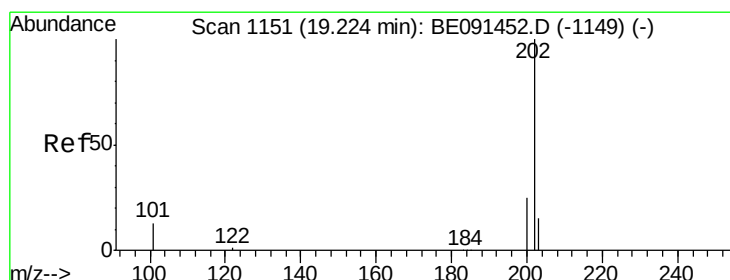
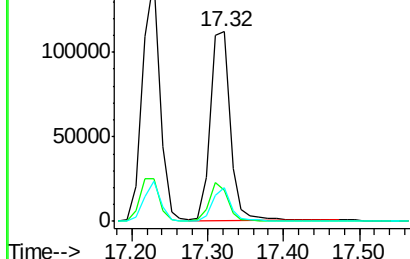
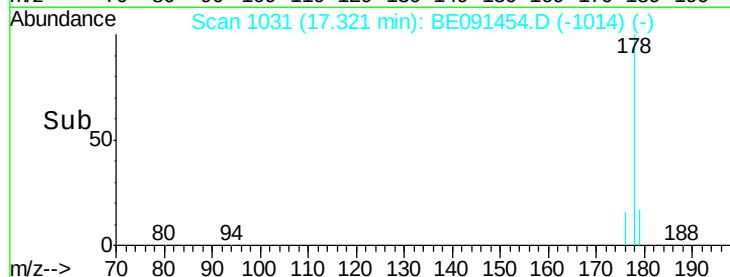
179 15.6 0.0 0.0#



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: 1.05 ng

RT: 19.22 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

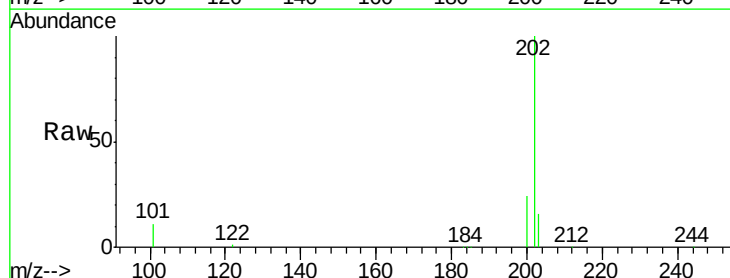
Tgt Ion:202 Resp: 258250

Ion Ratio Lower Upper

202 100

101 10.9 1.1 1.7#

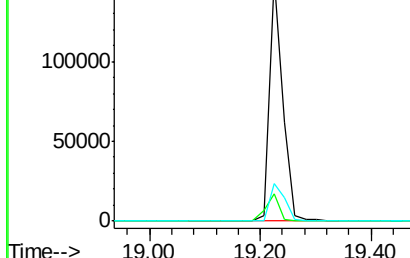
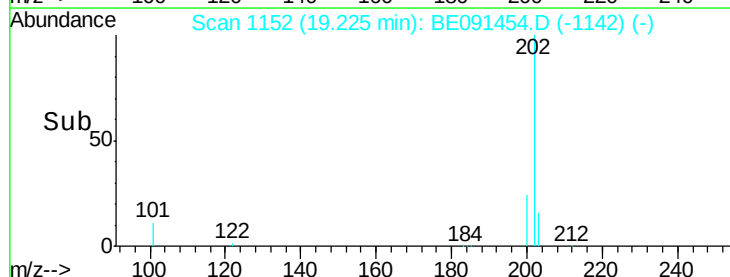
203 17.7 1.0 1.6#

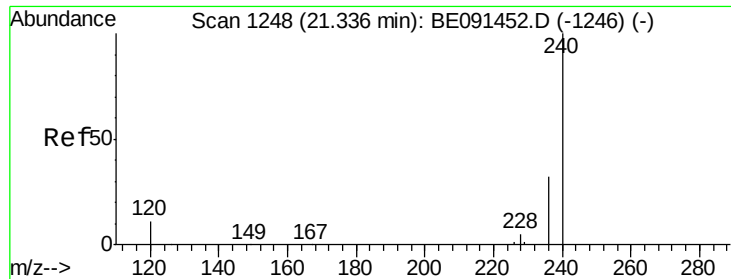


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

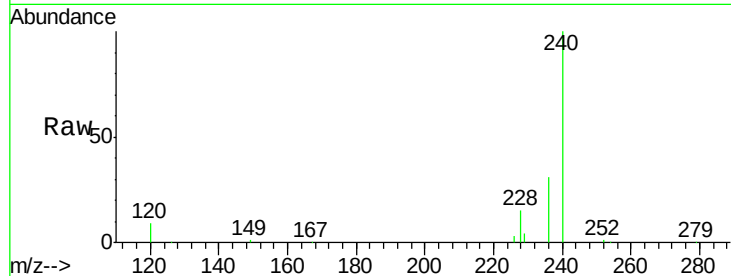




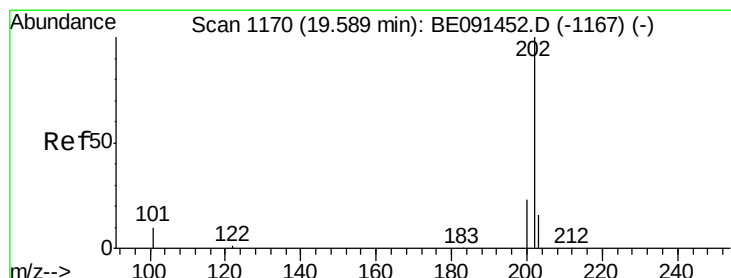
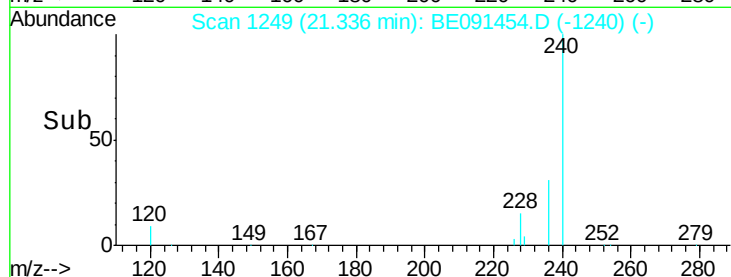
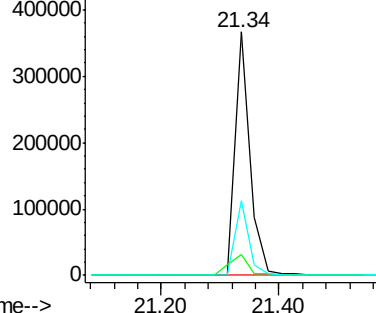
#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.34 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BE091454.D
Acq: 16 Mar 2016 21:51

Instrument :
BNA_E
ClientSampleId :

Tot Ion:240 Resp: 646028
Ion Ratio Lower Upper
240 100
120 8.8 8.8 13.2
236 30.9 25.7 38.5

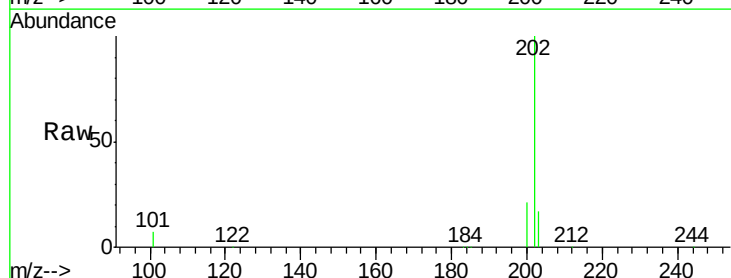


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

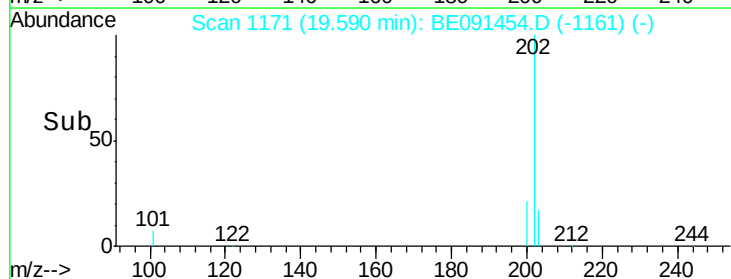
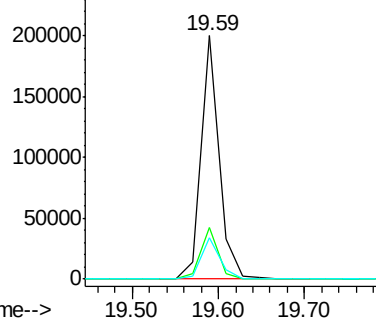


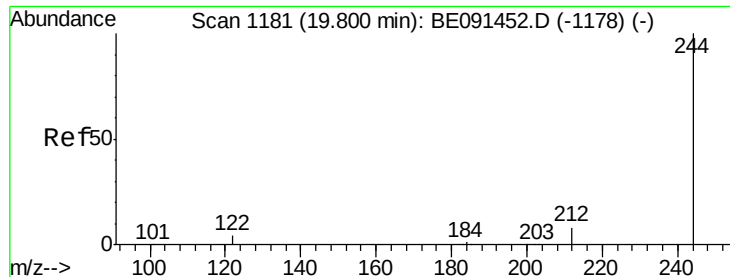
#20
Pyrene
Concen: 1.59 ng
RT: 19.59 min Scan# 1171
Delta R.T. 0.00 min
Lab File: BE091454.D
Acq: 16 Mar 2016 21:51

Tgt Ion:202 Resp: 289701
Ion Ratio Lower Upper
202 100
200 21.1 0.0 0.0#
203 17.6 0.1 0.1#



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: 1.51 ng

RT: 19.80 min Scan# 1182

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

Instrument :

BNA_E

ClientSampled :

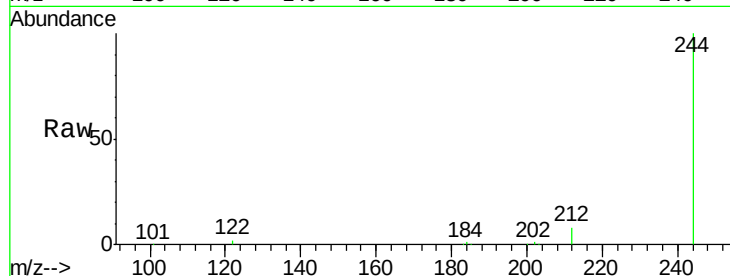
Tot Ion:244 Resp: 147388

Ion Ratio Lower Upper

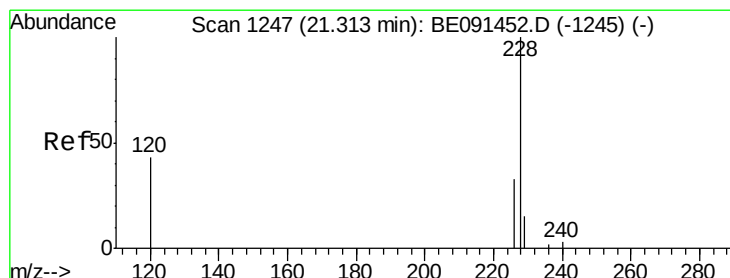
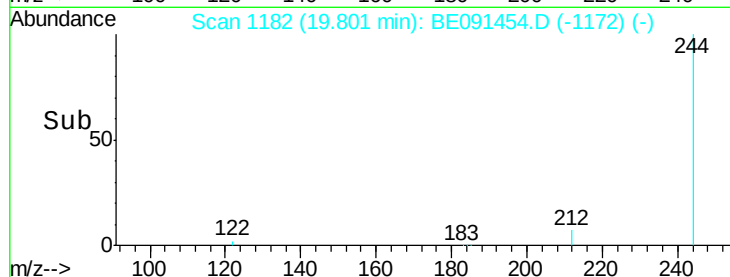
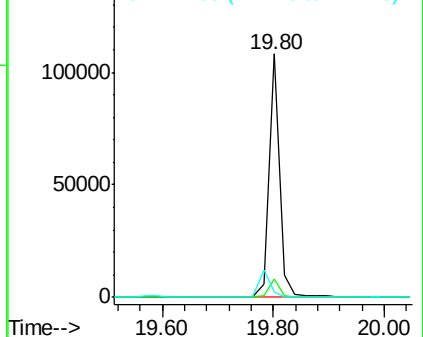
244 100

212 7.5 6.6 10.0

122 2.4 3.4 5.0#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 1.52 ng

RT: 21.31 min Scan# 1248

Delta R.T. 0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

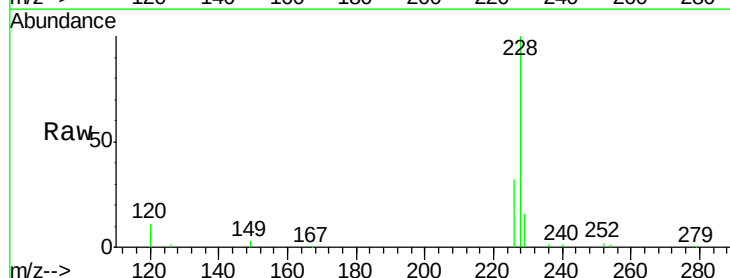
Tgt Ion:228 Resp: 338620

Ion Ratio Lower Upper

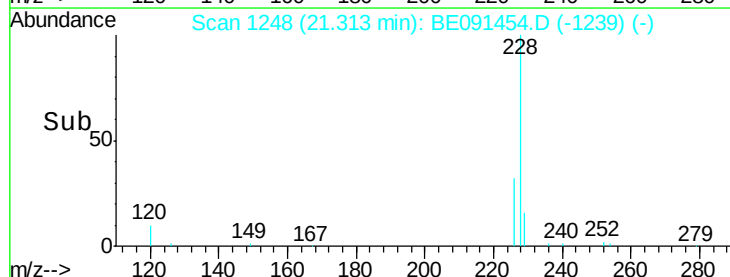
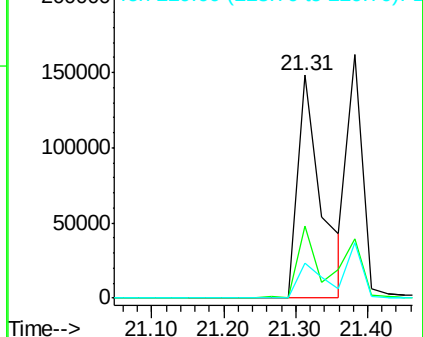
228 100

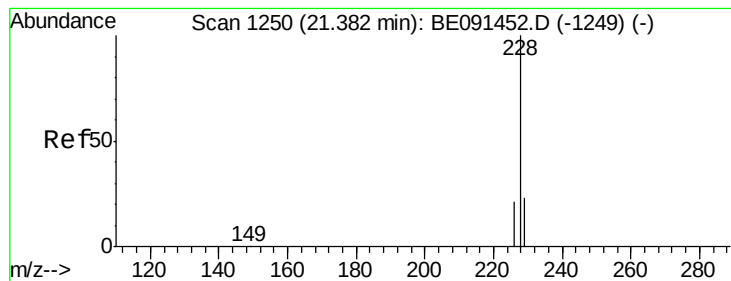
226 32.2 27.1 40.7

229 16.0 12.3 18.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 1.46 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.07 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

Instrument :

BNA_E

ClientSampleId :

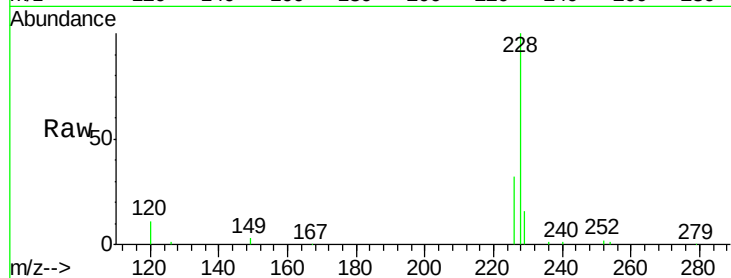
Tot Ion:228 Resp: 338567

Ion Ratio Lower Upper

228 100

226 32.2 20.3 30.5#

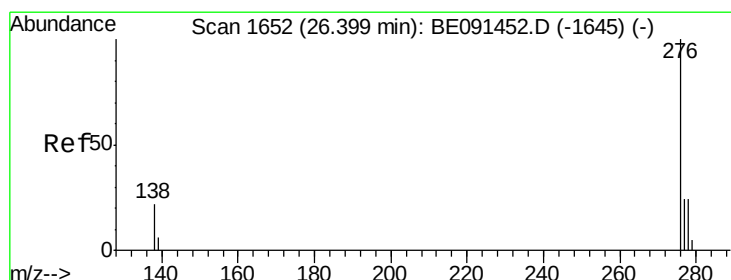
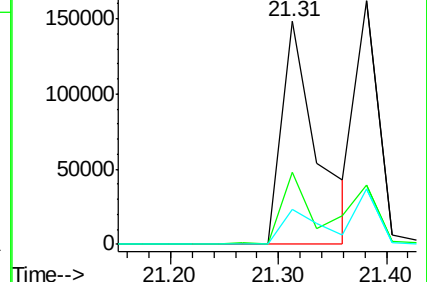
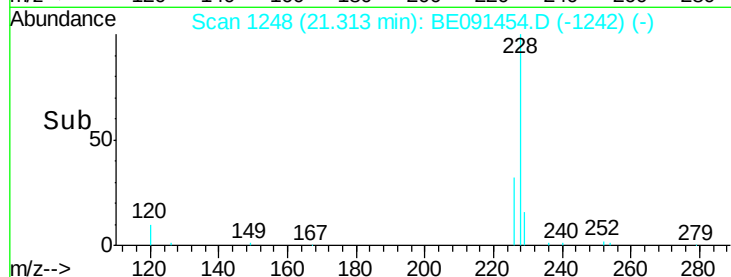
229 16.0 17.4 26.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 1.63 ng

RT: 26.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

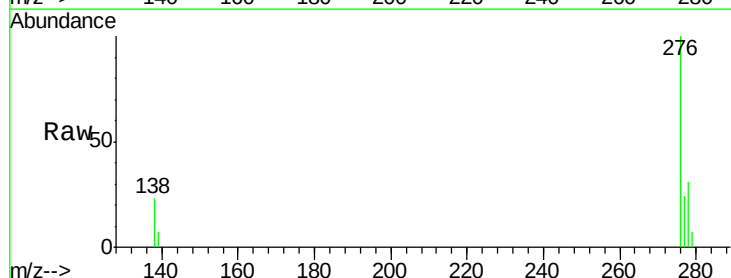
Tgt Ion:276 Resp: 321937

Ion Ratio Lower Upper

276 100

138 25.0 0.0 0.0#

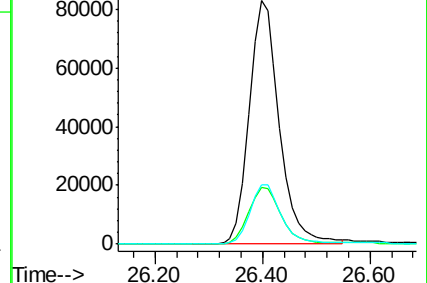
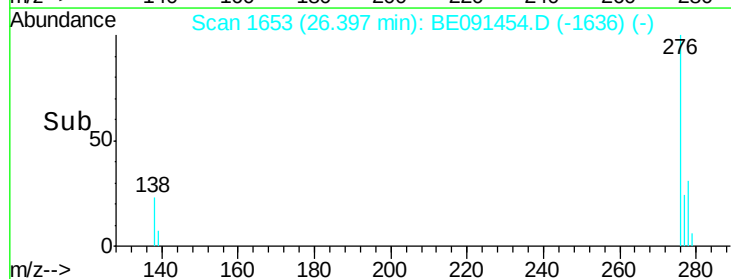
277 24.8 0.0 0.0#

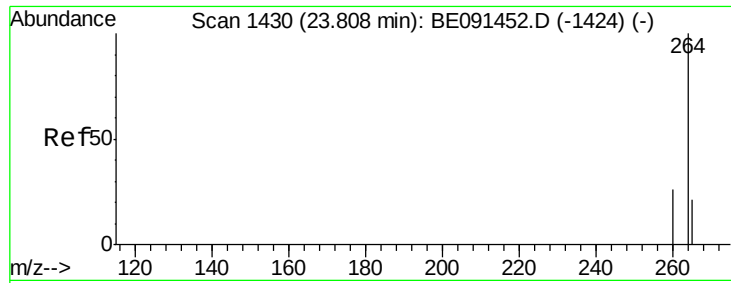


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

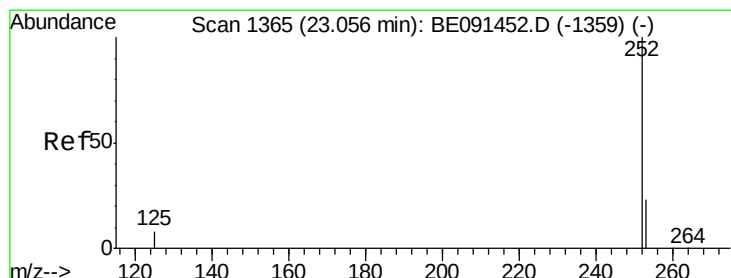
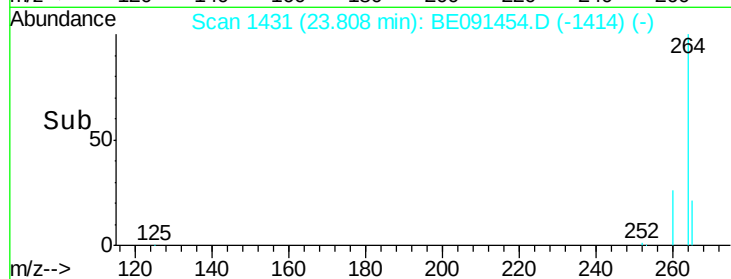
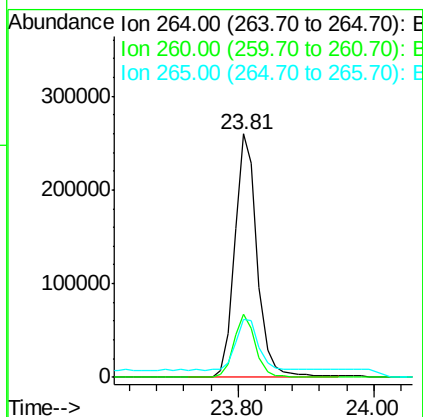
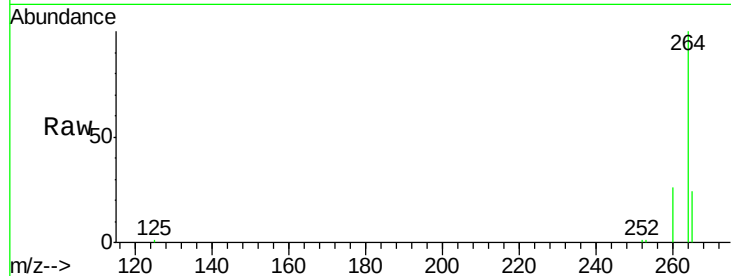




#25
Pervlene-d12
Concen: 5.00 ng
RT: 23.81 min Scan# 1431
Delta R.T. 0.00 min
Lab File: BE091454.D
Acq: 16 Mar 2016 21:51

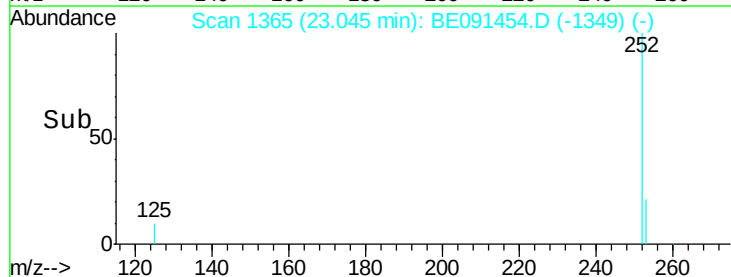
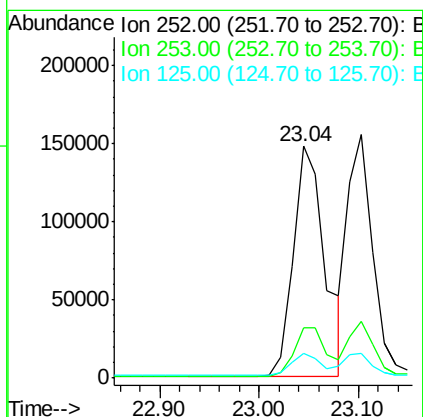
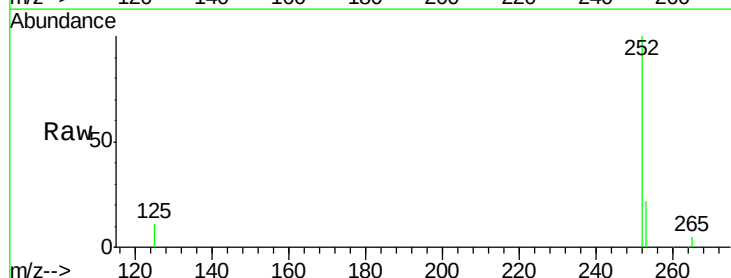
Instrument :
BNA_E
ClientSampleId :

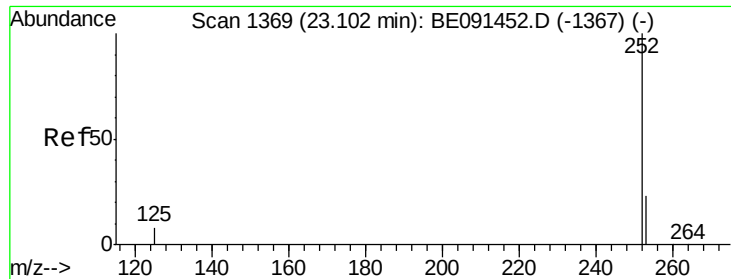
Tot Ion:264 Resp: 596612
Ion Ratio Lower Upper
264 100
260 26.1 20.7 31.1
265 23.9 19.4 29.2



#26
Benzo(b)fluoranthene
Concen: 1.86 ng
RT: 23.04 min Scan# 1365
Delta R.T. -0.01 min
Lab File: BE091454.D
Acq: 16 Mar 2016 21:51

Tgt Ion:252 Resp: 324621
Ion Ratio Lower Upper
252 100
253 21.9 20.6 30.8
125 10.9 10.2 15.4

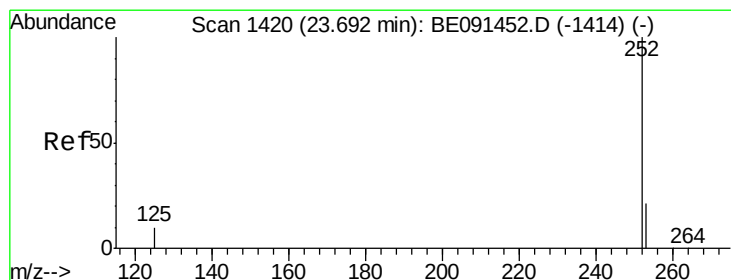
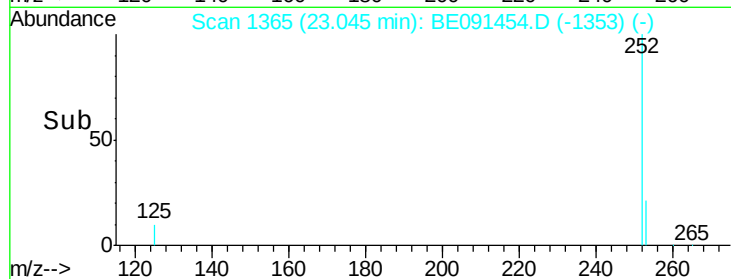
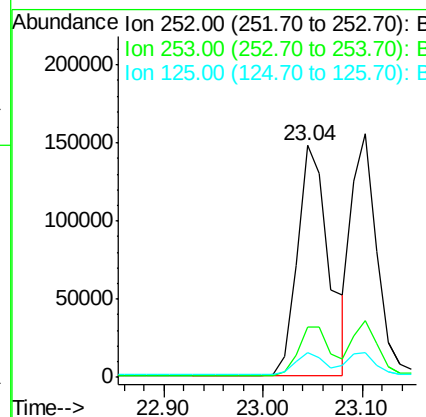
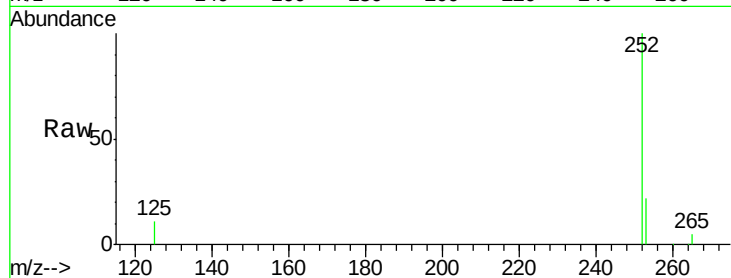




#27
Benzo(k)fluoranthene
Concen: 2.02 ng
RT: 23.04 min Scan# 1365
Delta R.T. -0.06 min
Lab File: BE091454.D
Acq: 16 Mar 2016 21:51

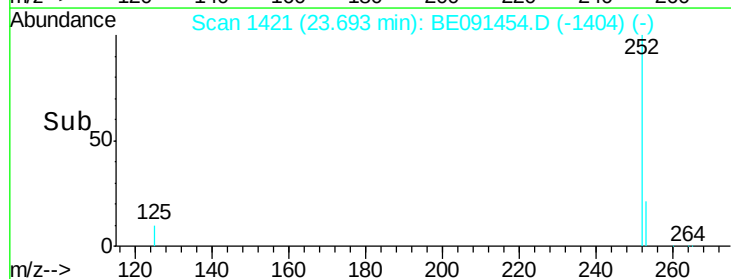
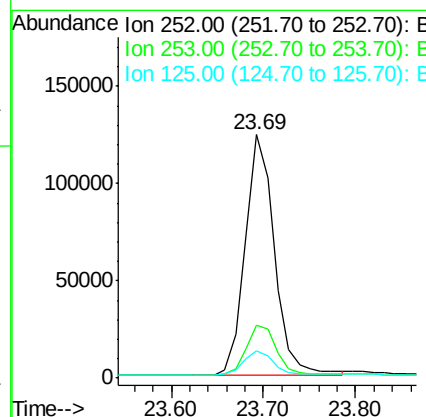
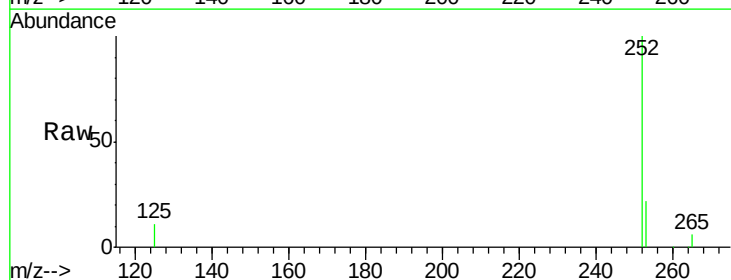
Instrument :
BNA_E
ClientSampleId :

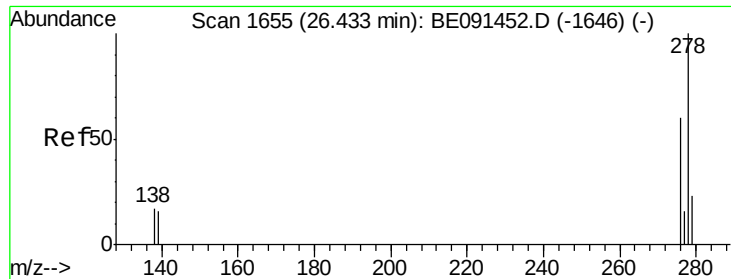
Tot Ion:252 Resp: 324621
Ion Ratio Lower Upper
252 100
253 21.9 20.2 30.2
125 10.9 10.6 16.0



#28
Benzo(a)pyrene
Concen: 1.87 ng
RT: 23.69 min Scan# 1421
Delta R.T. 0.00 min
Lab File: BE091454.D
Acq: 16 Mar 2016 21:51

Tgt Ion:252 Resp: 275345
Ion Ratio Lower Upper
252 100
253 21.8 20.0 30.0
125 11.5 12.7 19.1#





#29

Dibenzo(a,h)anthracene

Concen: 1.90 ng

RT: 26.43 min Scan# 1656

Delta R.T. -0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

Instrument :

BNA_E

ClientSampleId :

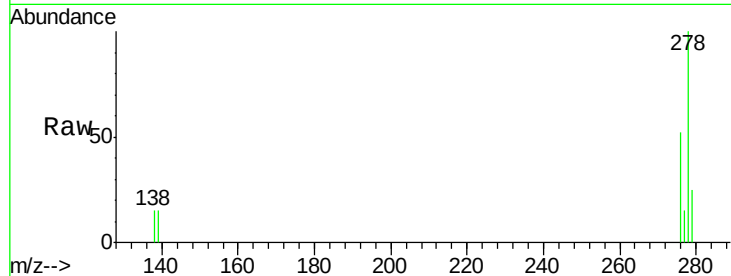
Tot Ion:278 Resp: 268662

Ion Ratio Lower Upper

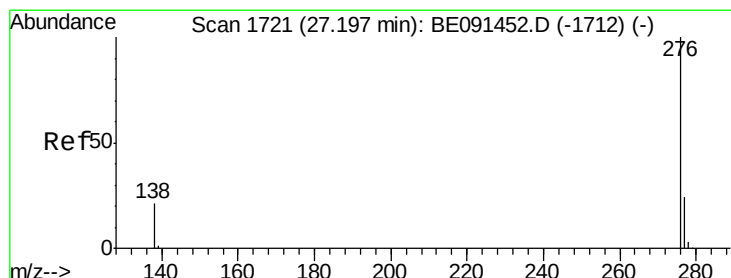
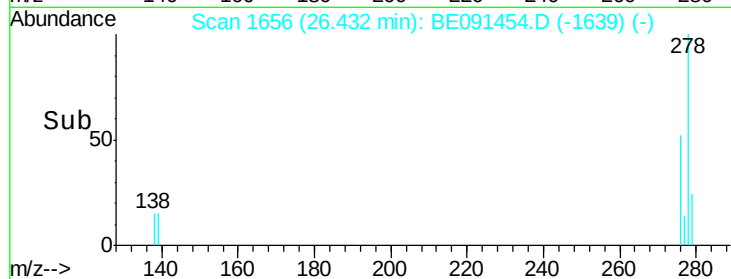
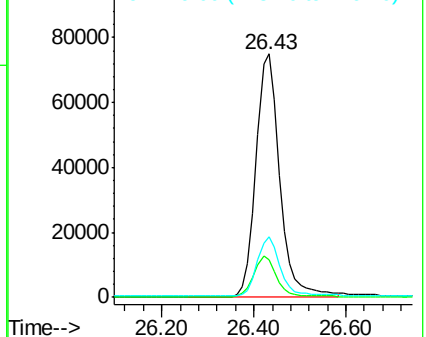
278 100

139 15.2 13.3 19.9

279 24.7 20.9 31.3



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: 1.84 ng

RT: 27.20 min Scan# 1722

Delta R.T. -0.00 min

Lab File: BE091454.D

Acq: 16 Mar 2016 21:51

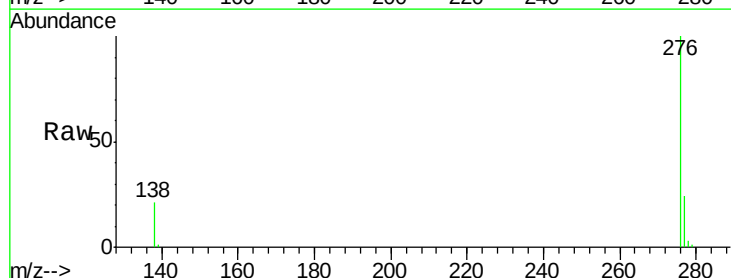
Tgt Ion:276 Resp: 278175

Ion Ratio Lower Upper

276 100

277 23.8 19.8 29.8

138 21.4 17.6 26.4



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

