

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031616\
 Data File : BE091450.D
 Acq On : 16 Mar 2016 19:22
 Operator : UM/SJ
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 17 07:08:29 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	67850	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	298773	5.00	ng	0.00
8) Acenaphthene-d10	14.45	164	180114	5.00	ng	0.00
13) Phenanthrene-d10	17.19	188	463987	5.00	ng	0.01
19) Chrysene-d12	21.34	240	549466	5.00	ng	0.00
25) Perylene-d12	23.81	264	588767	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.99	82	1295	0.09	ng	0.00
9) 2-Fluorobiphenyl	13.08	172	4708	0.11	ng	0.00
21) Terphenyl-d14	19.80	244	9434	0.11	ng	0.00

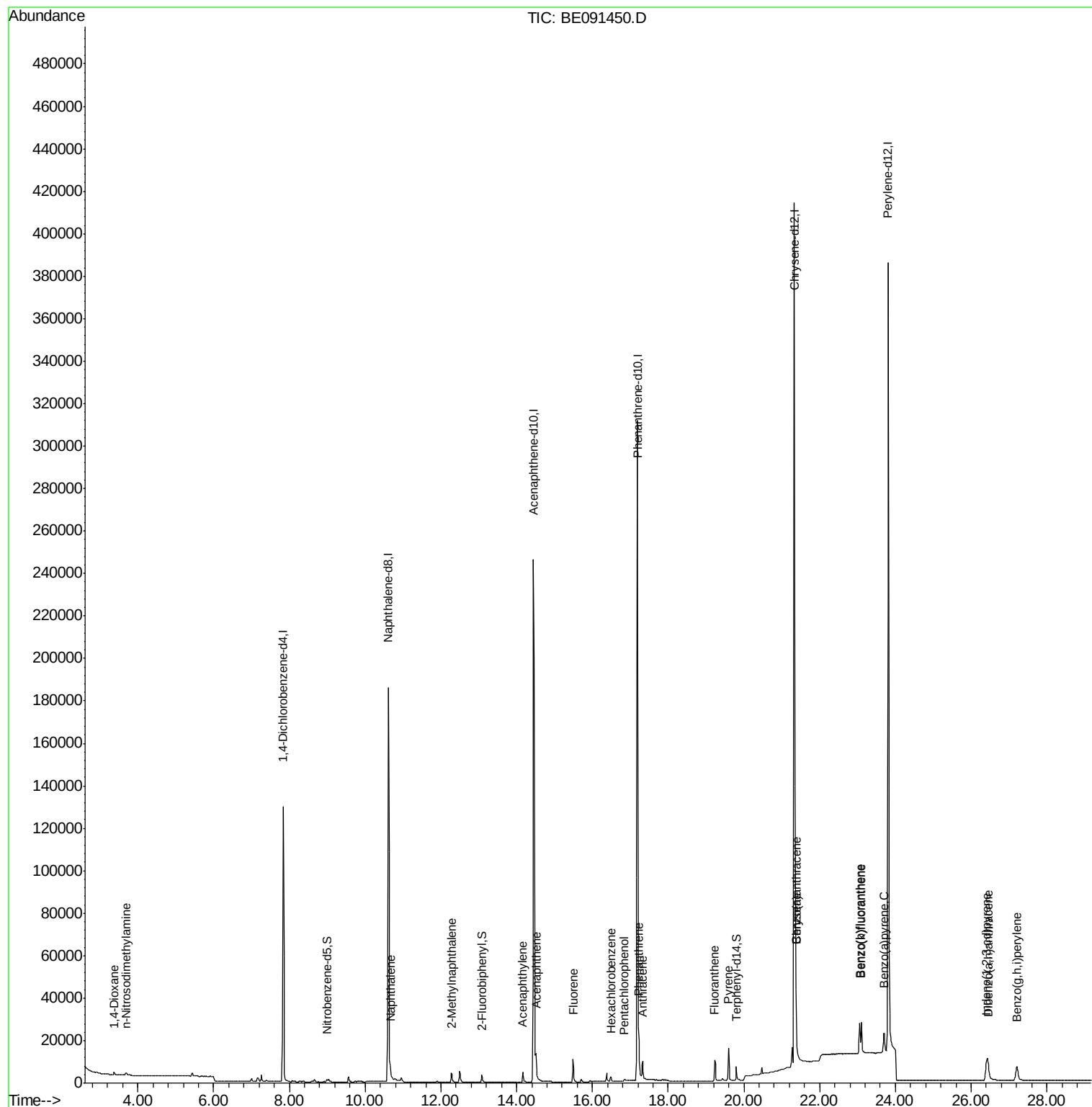
Target Compounds						Ovalue
2) 1,4-Dioxane	3.38	88	1282	0.20	ng	# 100
3) n-Nitrosodimethylamine	3.68	42	1247	0.17	ng	# 100
6) Naphthalene	10.67	128	7850	0.11	ng	97
7) 2-Methylnaphthalene	12.27	142	4870	0.12	ng	97
10) Acenaphthylene	14.16	152	7560	0.03	ng	# 100
11) Acenaphthene	14.51	154	5738	0.11	ng	# 100
12) Fluorene	15.49	166	7556	0.11	ng	# 100
14) Hexachlorobenzene	16.50	284	2136	0.08	ng	# 100
15) Pentachlorophenol	16.84	266	915	0.16	ng	98
16) Phenanthrene	17.23	178	14402	0.09	ng	# 100
17) Anthracene	17.32	178	11621	0.05	ng	# 100
18) Fluoranthene	19.22	202	15795	0.07	ng	# 61
20) Pyrene	19.59	202	17130	0.11	ng	# 92
22) Benzo(a)anthracene	21.38	228	49569	0.26	ng	# 86
23) Chrysene	21.38	228	50827	0.26	ng	99
24) Indeno(1,2,3-cd)pyrene	26.41	276	20707	0.12	ng	# 100
26) Benzo(b)fluoranthene	23.06	252	24194	0.14	ng	# 80
27) Benzo(k)fluoranthene	23.10	252	22039	0.14	ng	# 81
28) Benzo(a)pyrene	23.69	252	18118	0.12	ng	# 71
29) Dibenzo(a,h)anthracene	26.44	278	17196	0.12	ng	# 86
30) Benzo(g,h,i)perylene	27.21	276	18595	0.12	ng	95

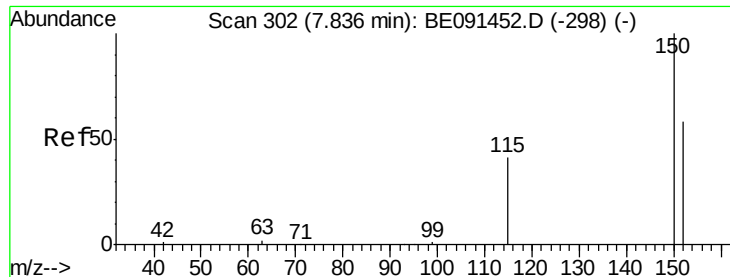
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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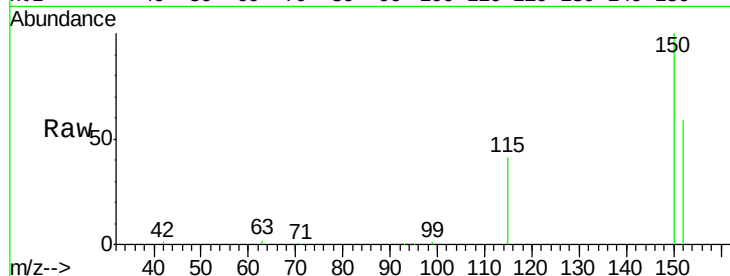


#1

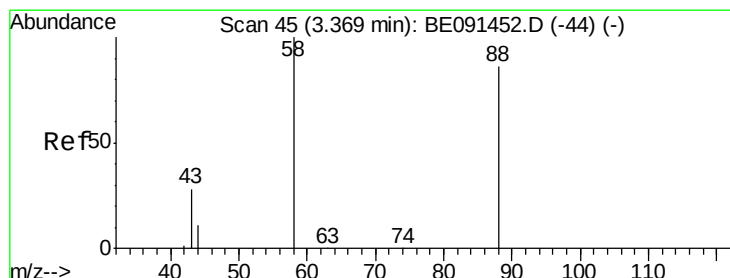
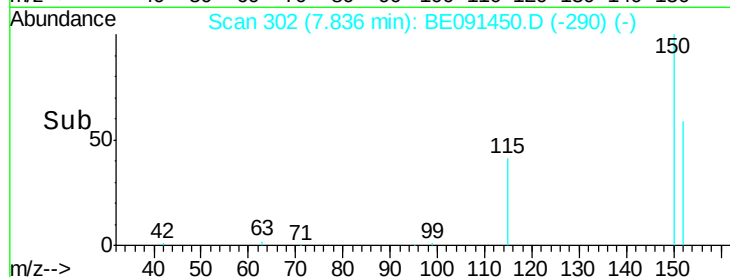
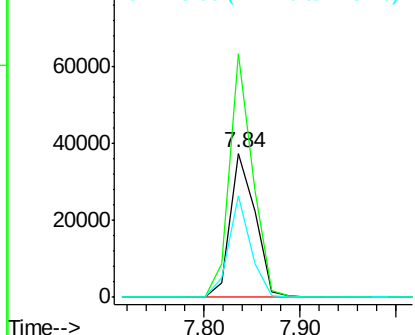
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.84 min Scan# 302
Delta R.T. 0.00 min
Lab File: BE091450.D
Acq: 16 Mar 2016 19:22

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 67850
Ion Ratio Lower Upper
152 100
150 169.3 136.8 205.2
115 70.3 56.9 85.3



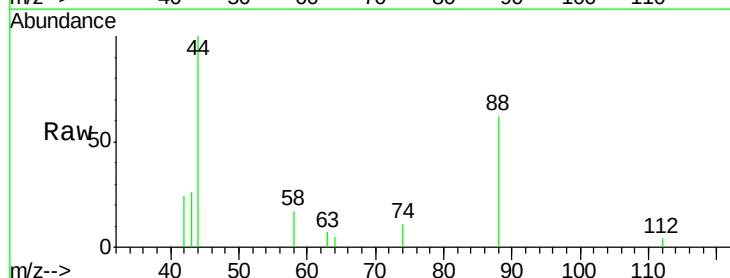
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



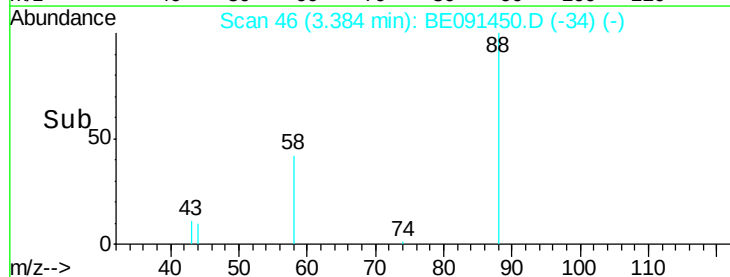
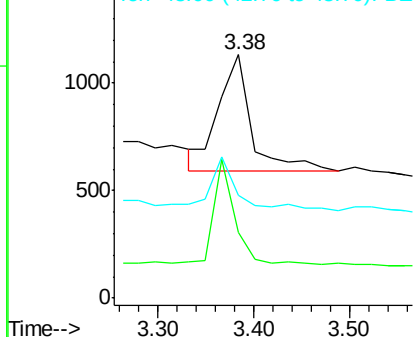
#2

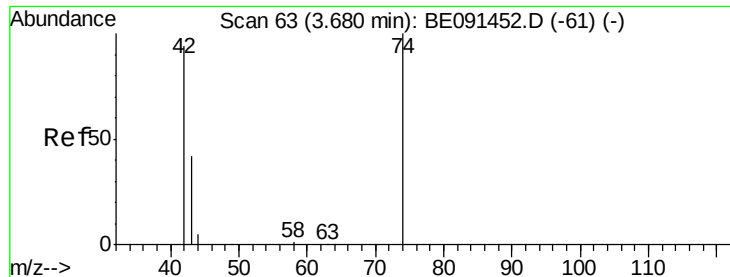
1,4-Dioxane
Concen: 0.20 ng
RT: 3.38 min Scan# 46
Delta R.T. 0.02 min
Lab File: BE091450.D
Acq: 16 Mar 2016 19:22

Tgt Ion: 88 Resp: 1282
Ion Ratio Lower Upper
88 100
58 57.3 0.0 0.0#
43 39.9 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: 0.17 ng

RT: 3.68 min Scan# 63

Delta R.T. -0.00 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

Instrument :

BNA_E

ClientSampleId :

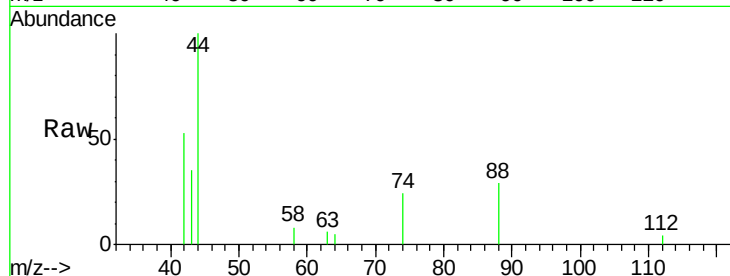
Tot Ion: 42 Resp: 1247

Ion Ratio Lower Upper

42 100

74 113.1 0.0 0.0#

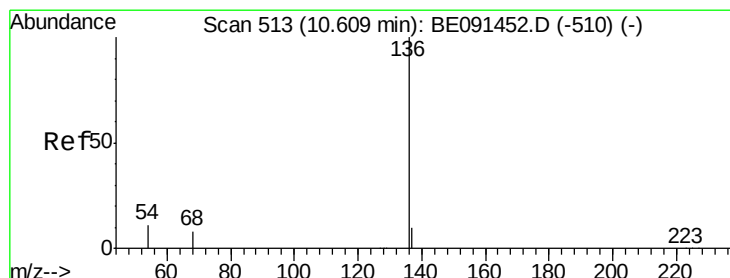
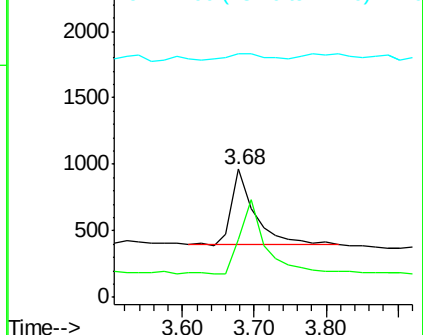
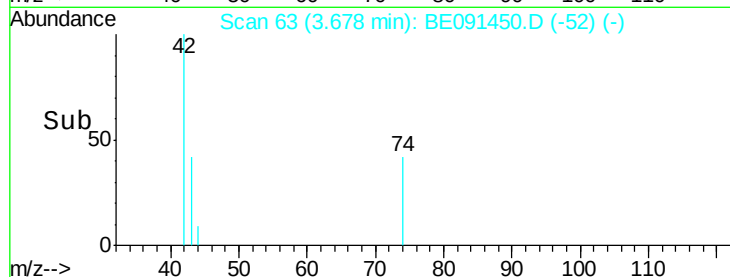
44 13.4 0.0 0.0#



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: BE091450.D

Acq: 16 Mar 2016 19:22

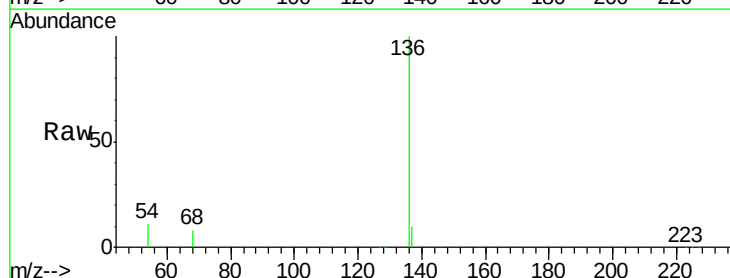
Tgt Ion: 136 Resp: 298773

Ion Ratio Lower Upper

136 100

137 10.3 8.0 12.0

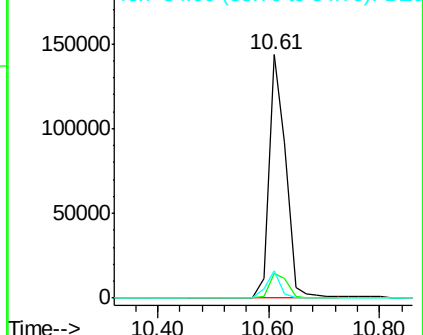
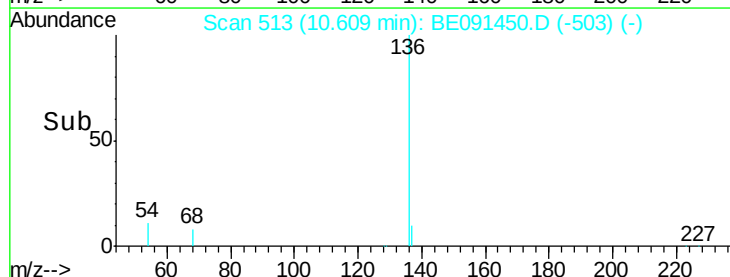
54 11.3 9.1 13.7

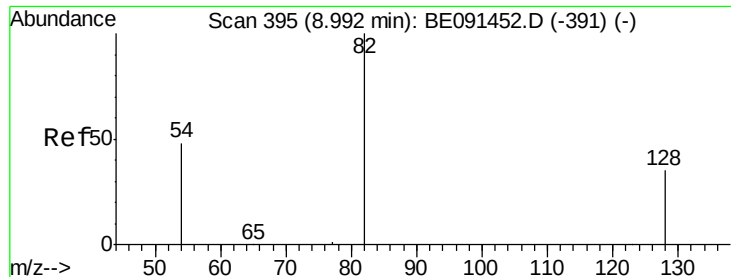


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 0.09 ng

RT: 8.99 min Scan# 395

Delta R.T. 0.00 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

Instrument :

BNA_E

ClientSampleId :

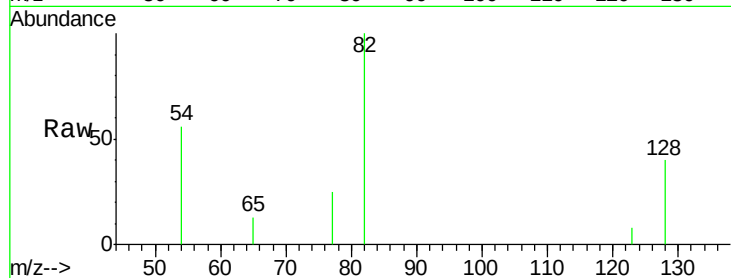
Tot Ion: 82 Resp: 1295

Ion Ratio Lower Upper

82 100

128 39.9 29.4 44.2

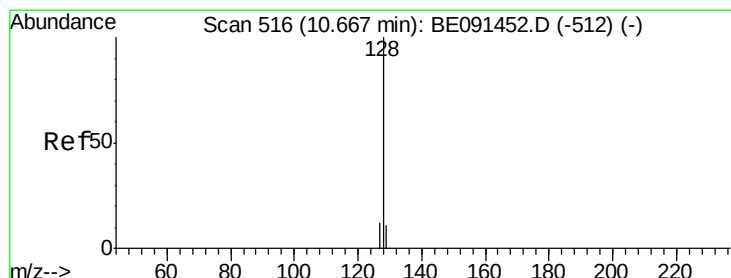
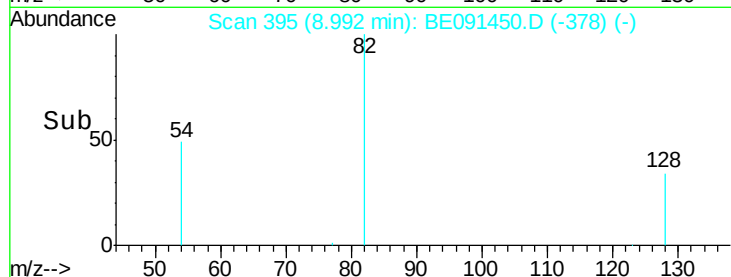
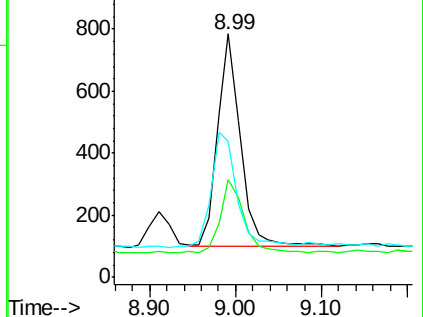
54 56.1 39.8 59.8



Abundance Ion 82.00 (81.70 to 82.70): BE091450.D (-391) (-)

Ion 128.00 (127.70 to 128.70): BE091450.D (-391) (-)

Ion 54.00 (53.70 to 54.70): BE091450.D (-391) (-)



#6

Naphthalene

Concen: 0.11 ng

RT: 10.67 min Scan# 516

Delta R.T. 0.00 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

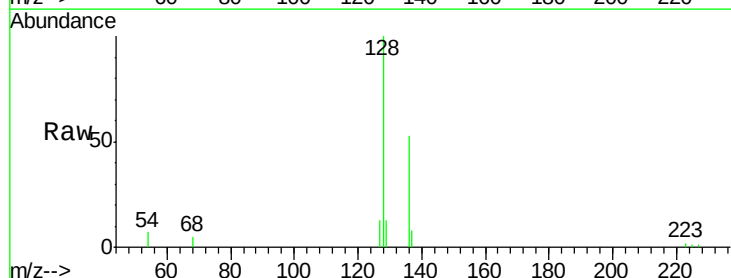
Tgt Ion: 128 Resp: 7850

Ion Ratio Lower Upper

128 100

129 13.1 9.4 14.0

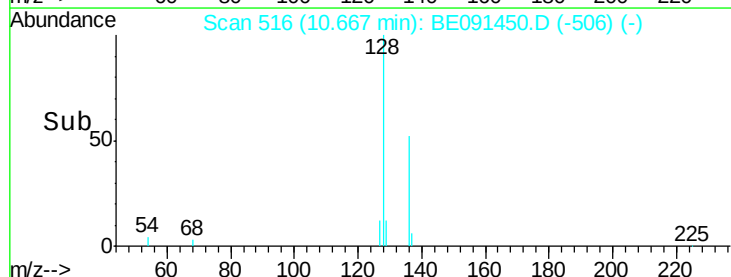
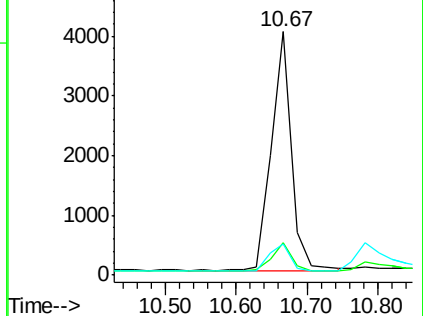
127 13.0 9.7 14.5

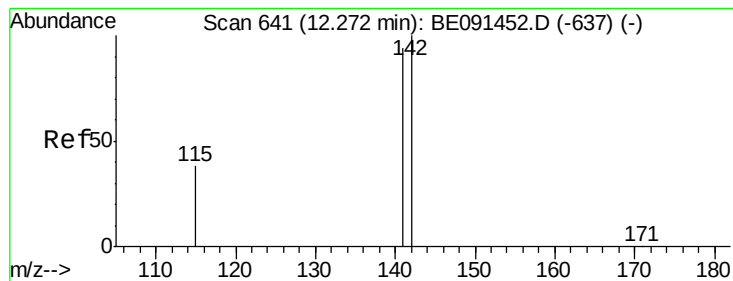


Abundance Ion 128.00 (127.70 to 128.70): BE091450.D (-512) (-)

Ion 129.00 (128.70 to 129.70): BE091450.D (-512) (-)

Ion 127.00 (126.70 to 127.70): BE091450.D (-512) (-)





#7

2-Methylnaphthalene

Concen: 0.12 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

Instrument :

BNA_E

ClientSampleId :

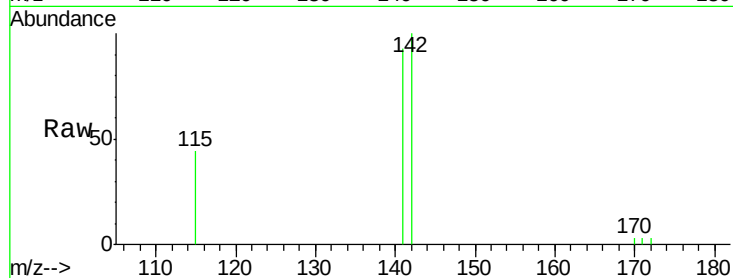
Tot Ion:142 Resp: 4870

Ion Ratio Lower Upper

142 100

141 93.2 75.0 112.4

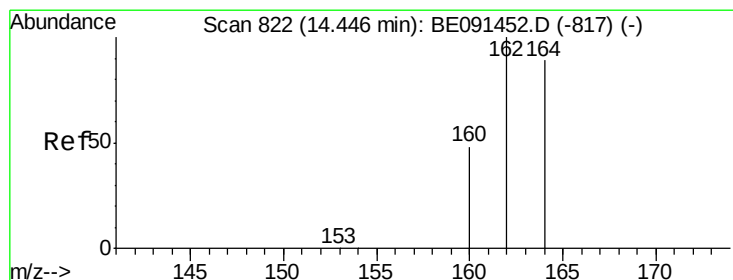
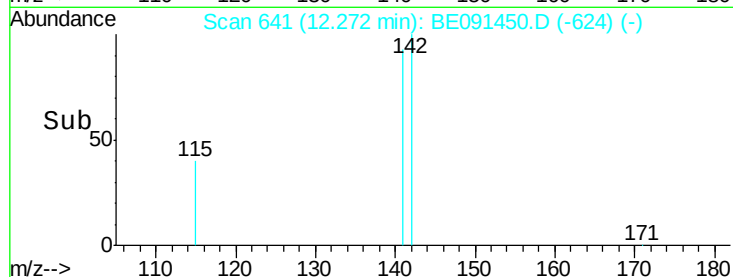
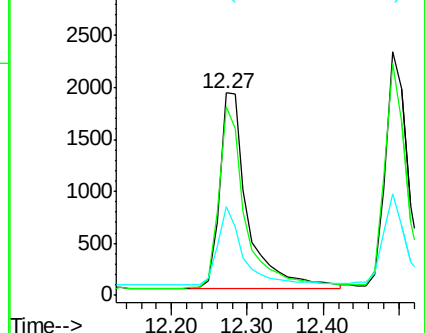
115 43.9 30.8 46.2



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: 14.45 min Scan# 822

Delta R.T. 0.00 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

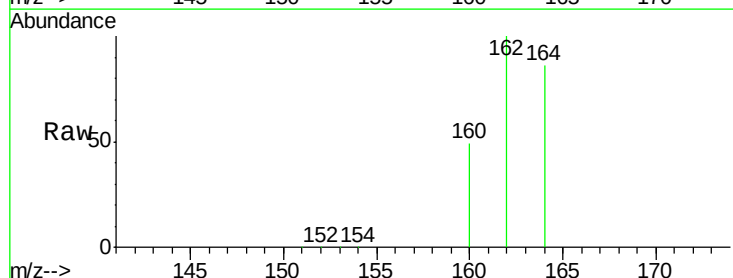
Tgt Ion:164 Resp: 180114

Ion Ratio Lower Upper

164 100

162 116.5 89.8 134.8

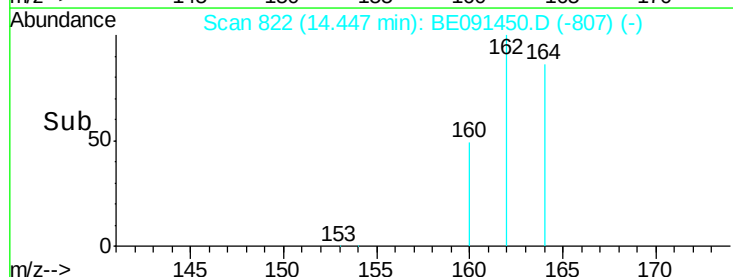
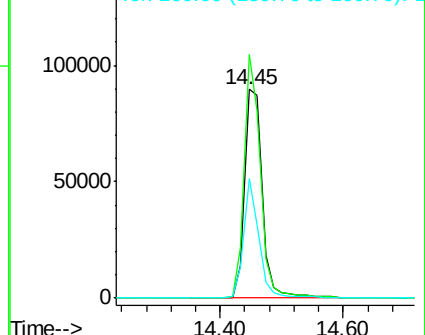
160 57.1 43.1 64.7

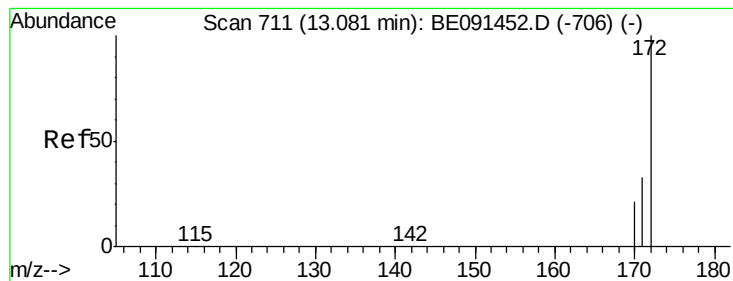


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.11 ng

RT: 13.08 min Scan# 711

Delta R.T. -0.00 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

Instrument :

BNA_E

ClientSampleId :

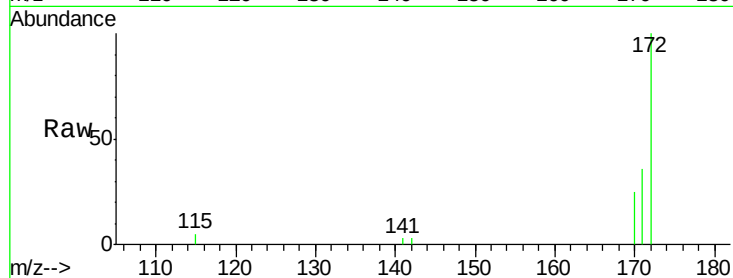
Tot Ion:172 Resp: 4708

Ion Ratio Lower Upper

172 100

171 35.7 26.7 40.1

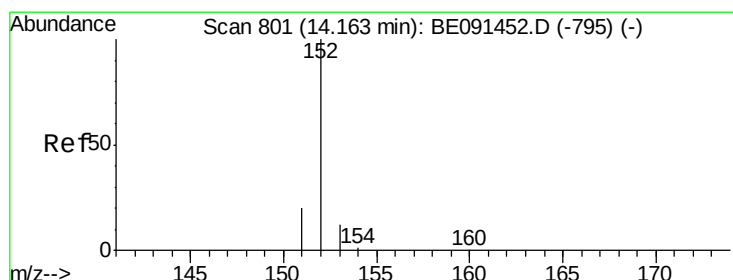
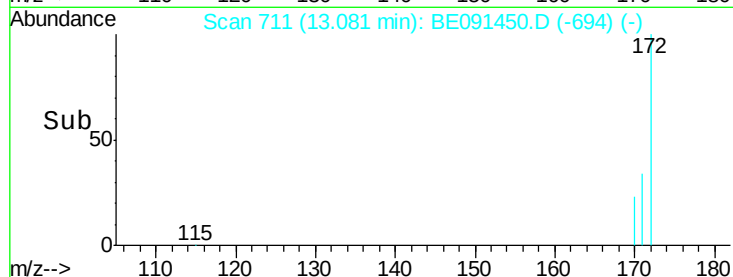
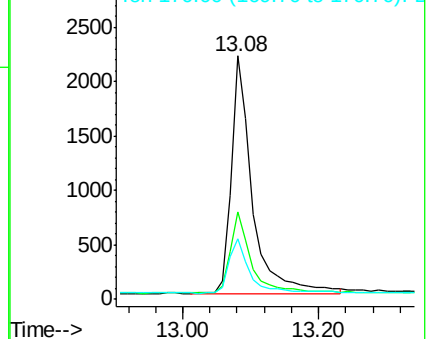
170 25.1 17.4 26.2



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 0.03 ng

RT: 14.16 min Scan# 801

Delta R.T. 0.00 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

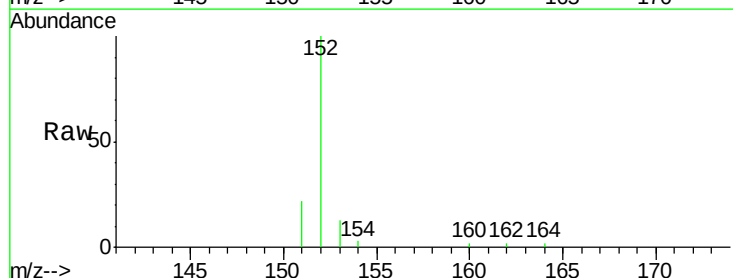
Tgt Ion:152 Resp: 7560

Ion Ratio Lower Upper

152 100

151 22.0 0.0 0.0#

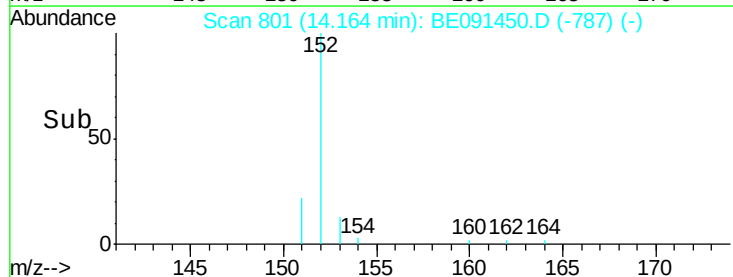
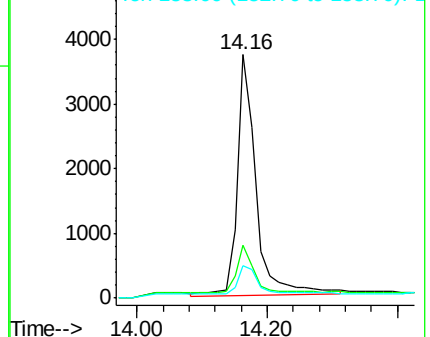
153 15.9 0.0 0.0#

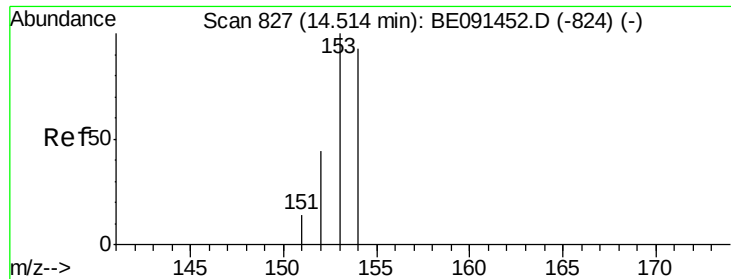


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

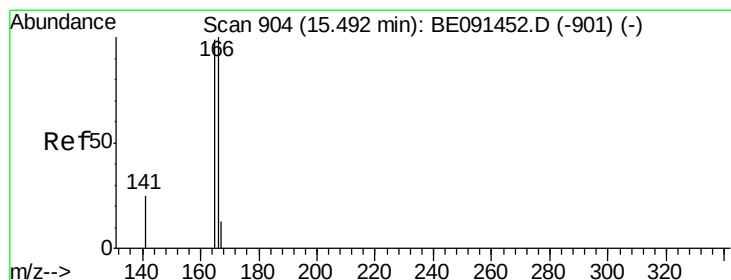
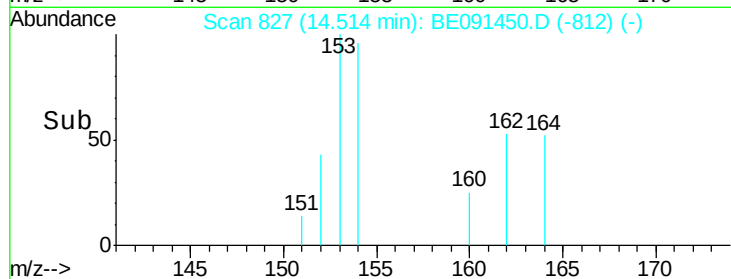
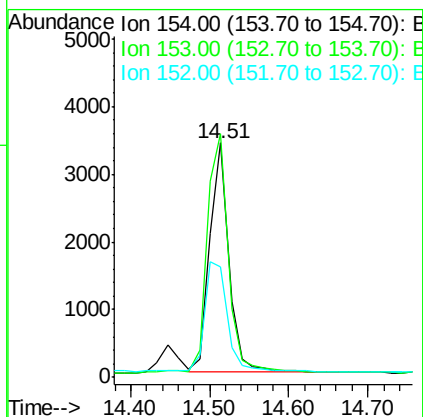
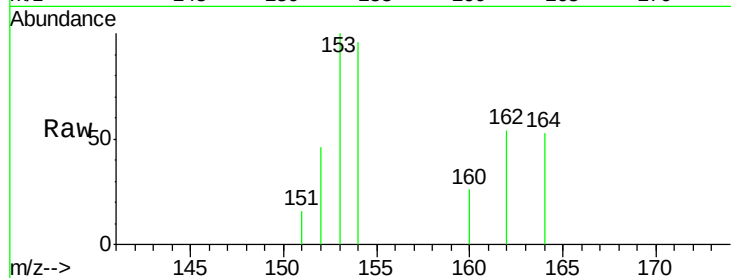




#11
Acenaphthene
Concen: 0.11 ng
RT: 14.51 min Scan# 827
Delta R.T. 0.00 min
Lab File: BE091450.D
Acq: 16 Mar 2016 19:22

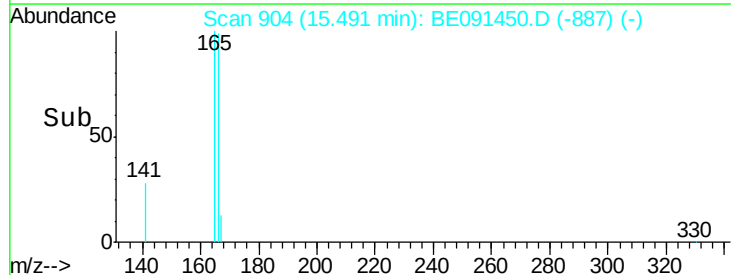
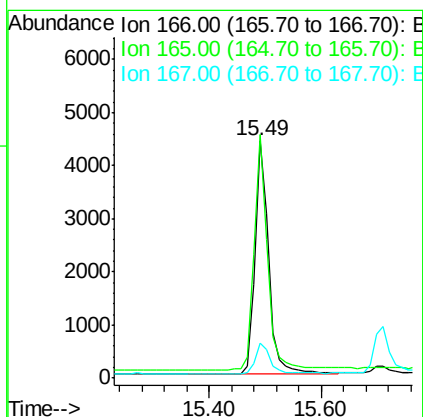
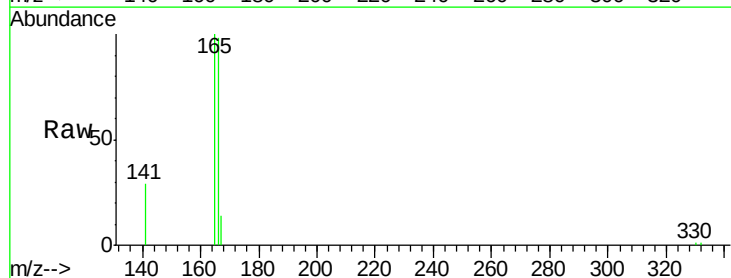
Instrument :
BNA_E
ClientSampled :

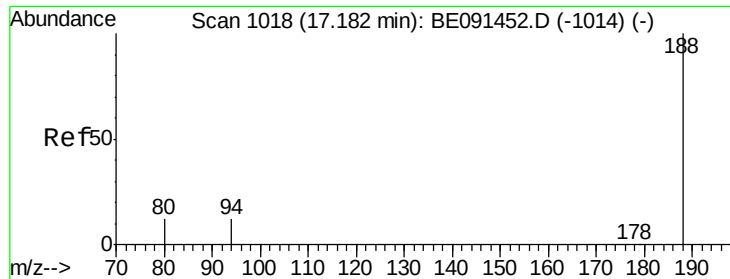
Tot Ion:154 Resp: 5738
Ion Ratio Lower Upper
154 100
153 115.9 0.0 0.0#
152 56.6 0.0 0.0#



#12
Fluorene
Concen: 0.11 ng
RT: 15.49 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE091450.D
Acq: 16 Mar 2016 19:22

Tgt Ion:166 Resp: 7556
Ion Ratio Lower Upper
166 100
165 99.5 0.0 0.0#
167 13.8 0.0 0.0#

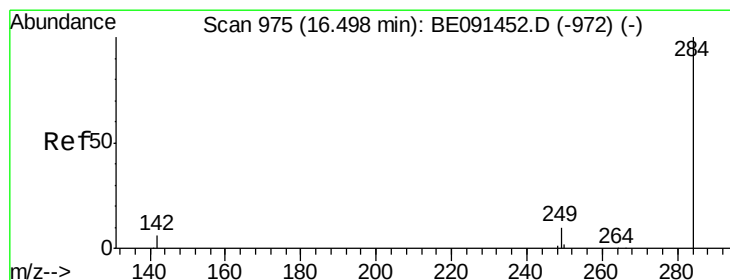
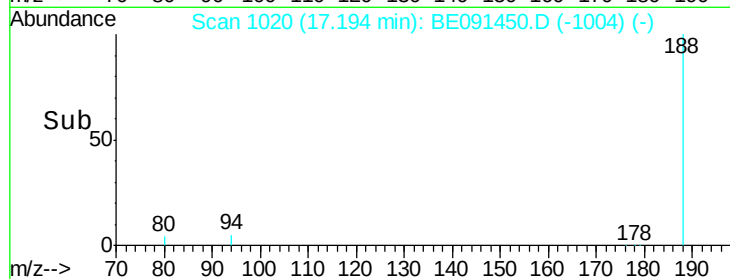
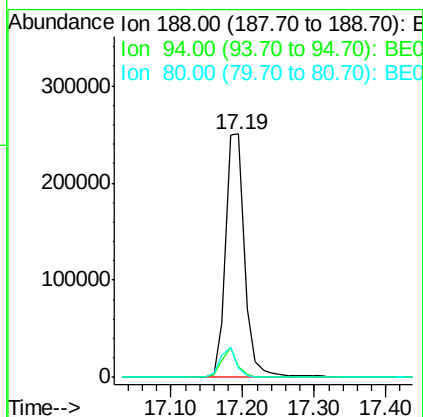
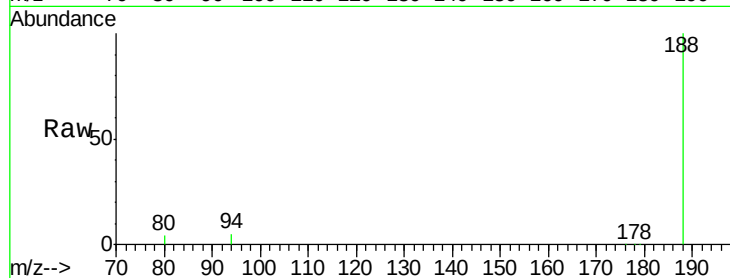




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.19 min Scan# 1020
Delta R.T. 0.01 min
Lab File: BE091450.D
Acq: 16 Mar 2016 19:22

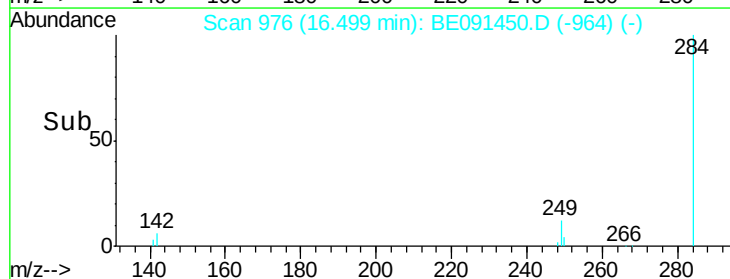
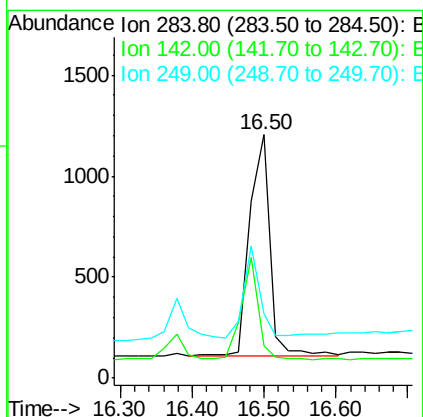
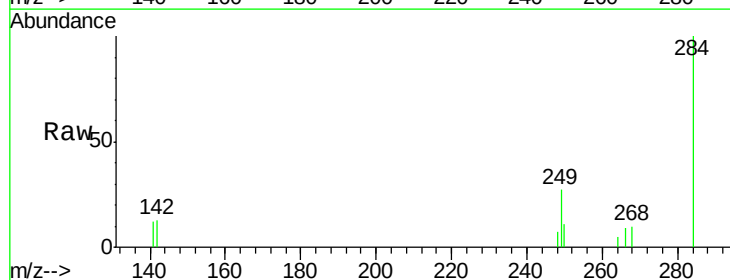
Instrument :
BNA_E
ClientSampleId :

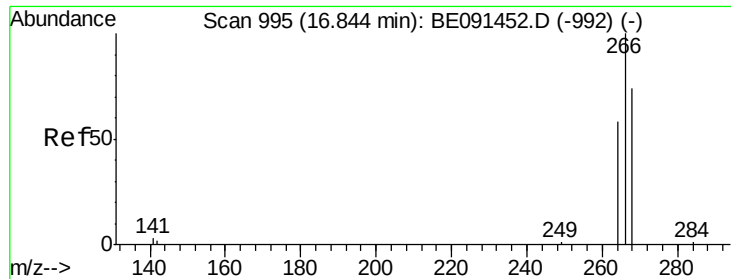
Tot Ion:188 Resp: 463987
Ion Ratio Lower Upper
188 100
94 4.6 9.5 14.3#
80 4.0 9.8 14.8#



#14
Hexachlorobenzene
Concen: 0.08 ng
RT: 16.50 min Scan# 976
Delta R.T. 0.00 min
Lab File: BE091450.D
Acq: 16 Mar 2016 19:22

Tgt Ion:284 Resp: 2136
Ion Ratio Lower Upper
284 100
142 38.6 0.0 0.0#
249 33.0 0.0 0.0#

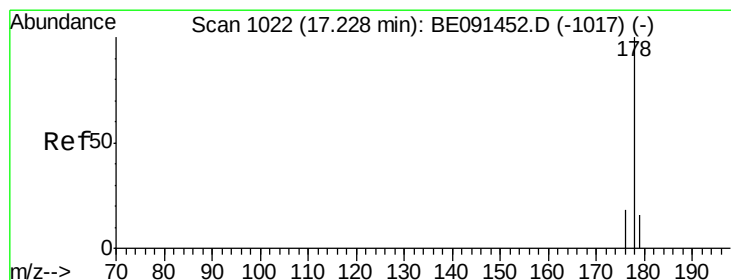
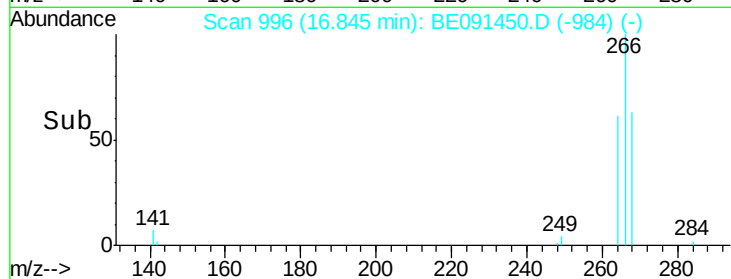
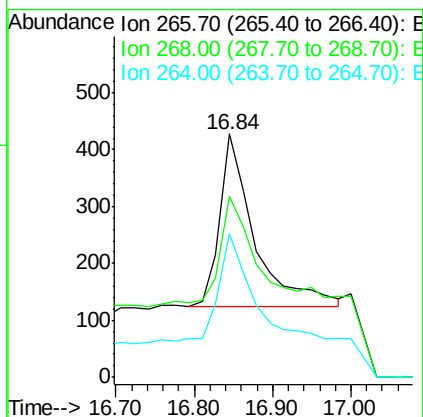
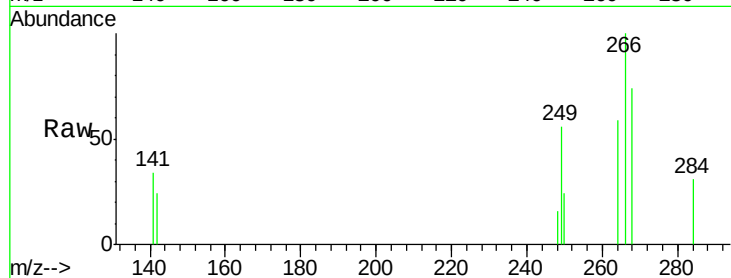




#15
 Pentachlorophenol
 Concen: 0.16 ng
 RT: 16.84 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: BE091450.D
 Acq: 16 Mar 2016 19:22

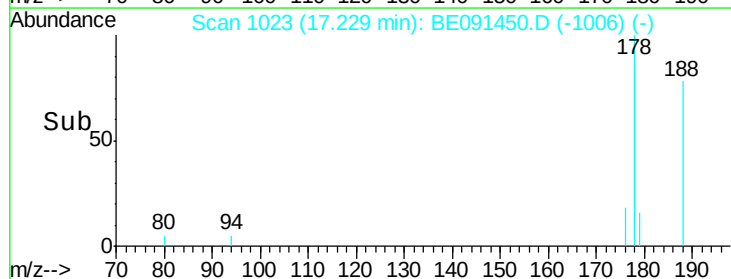
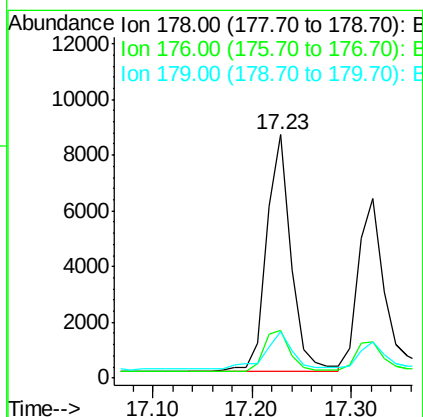
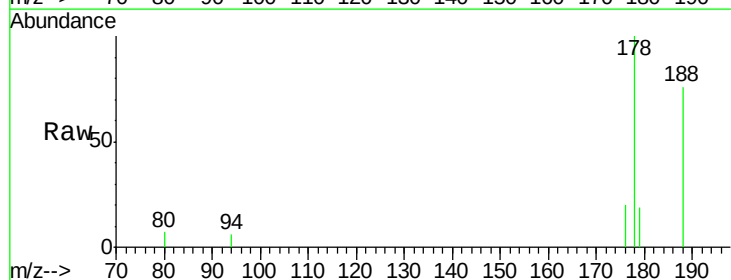
Instrument :
 BNA_E
 ClientSampleId :

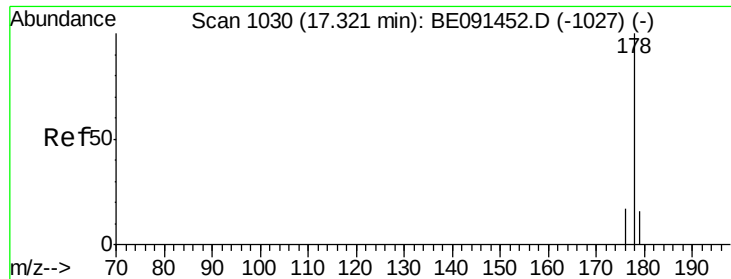
Tot Ion:266 Resp: 915
 Ion Ratio Lower Upper
 266 100
 268 74.3 61.0 91.6
 264 59.1 45.7 68.5



#16
 Phenanthrene
 Concen: 0.09 ng
 RT: 17.23 min Scan# 1023
 Delta R.T. 0.00 min
 Lab File: BE091450.D
 Acq: 16 Mar 2016 19:22

Tgt Ion:178 Resp: 14402
 Ion Ratio Lower Upper
 178 100
 176 20.1 0.0 0.0#
 179 18.6 0.0 0.0#

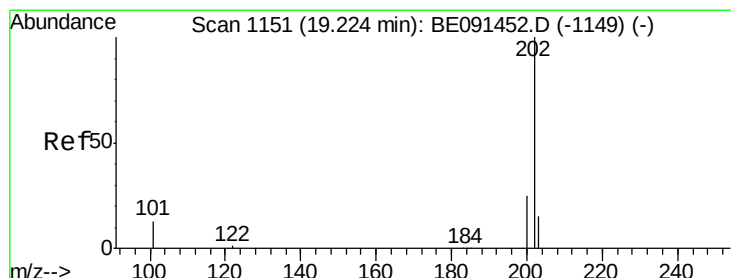
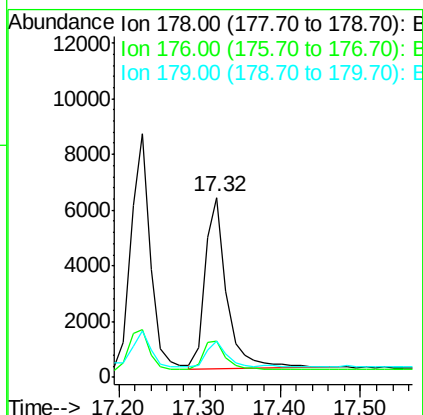
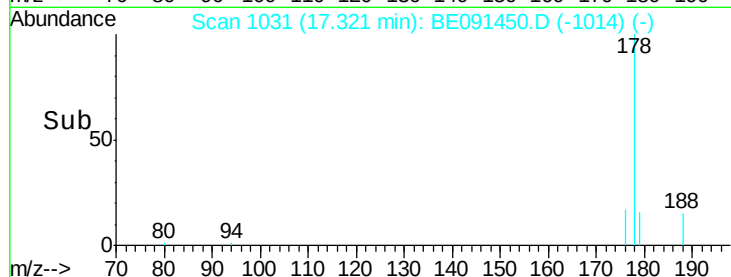
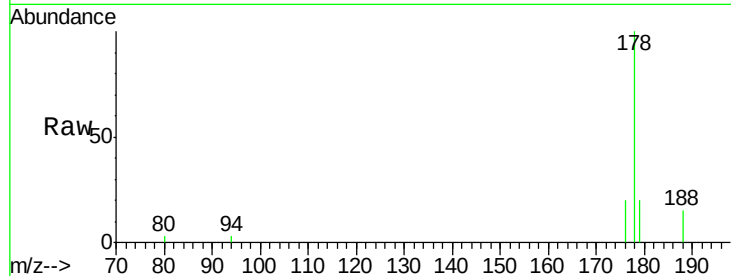




#17
 Anthracene
 Concen: 0.05 ng
 RT: 17.32 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: BE091450.D
 Acq: 16 Mar 2016 19:22

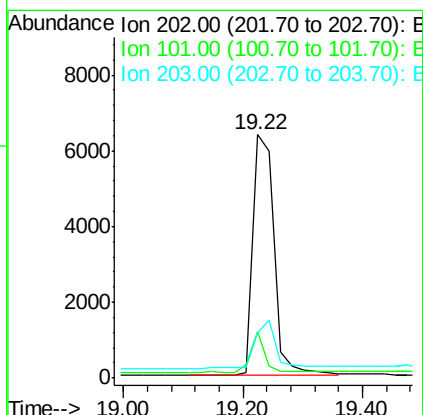
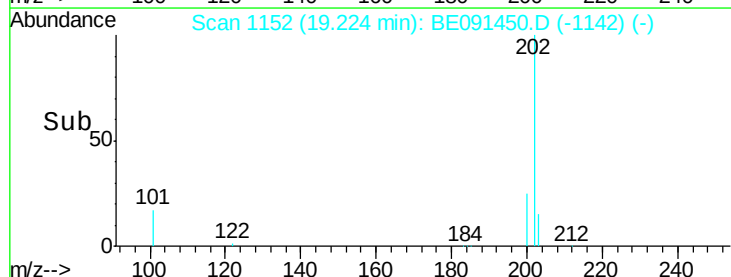
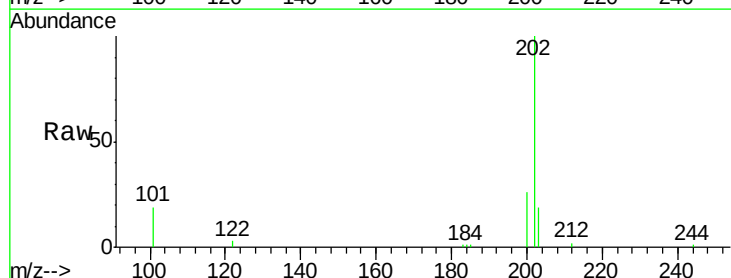
Instrument :
 BNA_E
 ClientSampleId :

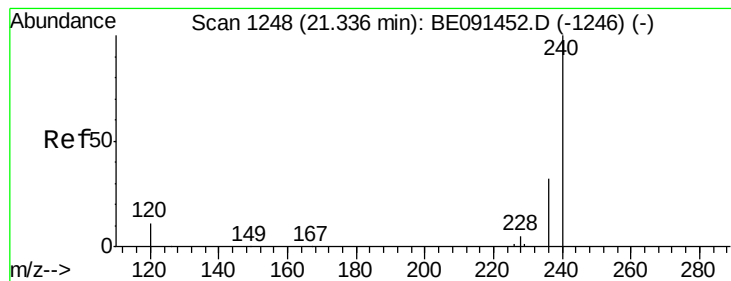
Tot Ion:178 Resp: 11621
 Ion Ratio Lower Upper
 178 100
 176 17.7 0.0 0.0#
 179 14.6 0.0 0.0#



#18
 Fluoranthene
 Concen: 0.07 ng
 RT: 19.22 min Scan# 1152
 Delta R.T. 0.00 min
 Lab File: BE091450.D
 Acq: 16 Mar 2016 19:22

Tgt Ion:202 Resp: 15795
 Ion Ratio Lower Upper
 202 100
 101 12.6 1.1 1.7#
 203 20.9 1.0 1.6#





#19

Chrysene-d12

Concen: 5.00 ng

RT: 21.34 min Scan# 1249

Delta R.T. -0.00 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

Instrument :

BNA_E

ClientSampleId :

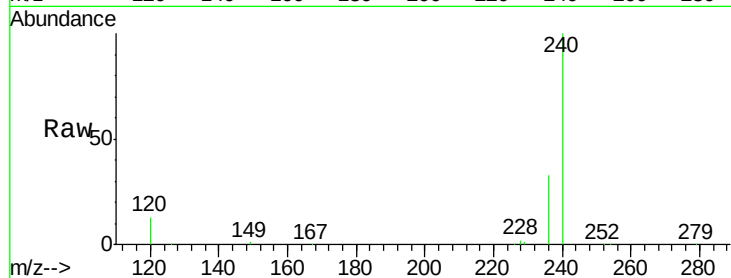
Tot Ion:240 Resp: 549466

Ion Ratio Lower Upper

240 100

120 12.9 8.8 13.2

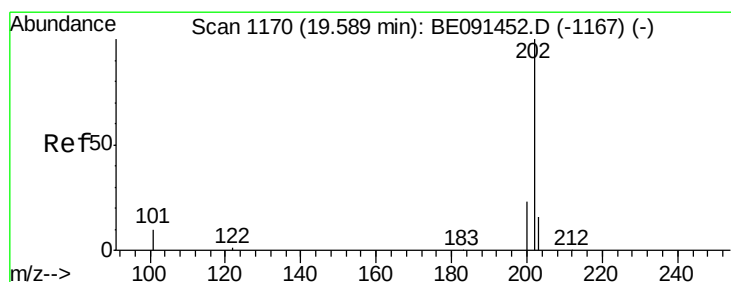
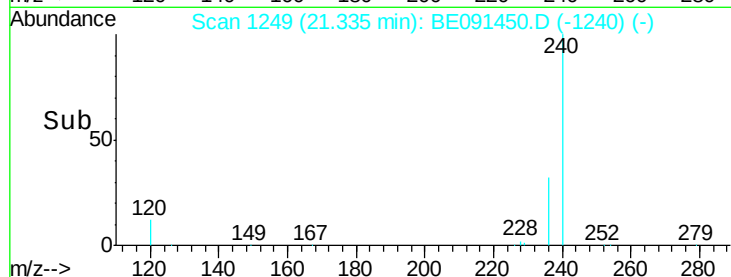
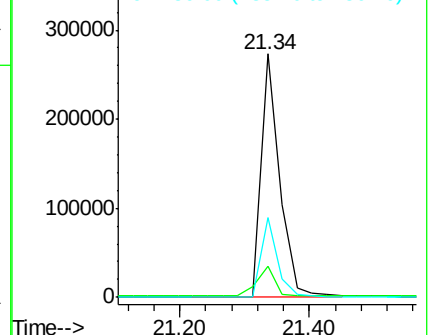
236 32.5 25.7 38.5



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: 0.11 ng

RT: 19.59 min Scan# 1171

Delta R.T. 0.00 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

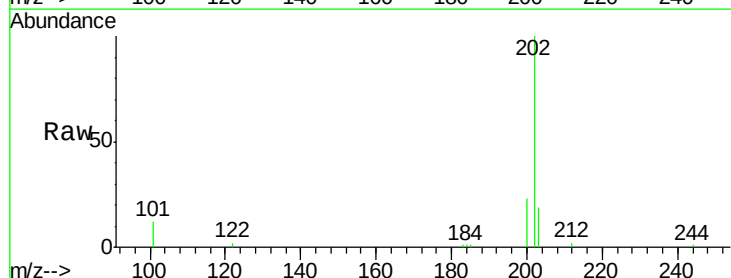
Tgt Ion:202 Resp: 17130

Ion Ratio Lower Upper

202 100

200 21.3 0.0 0.0#

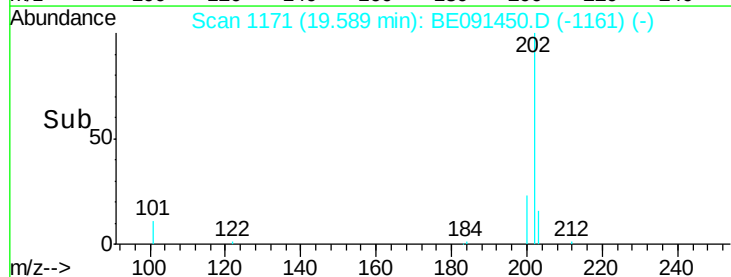
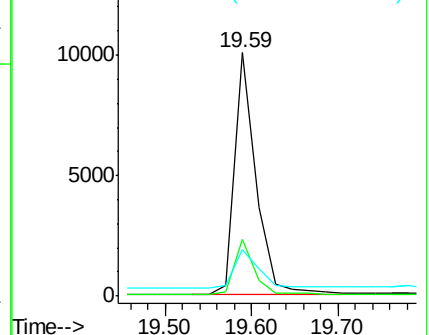
203 19.4 0.1 0.1#

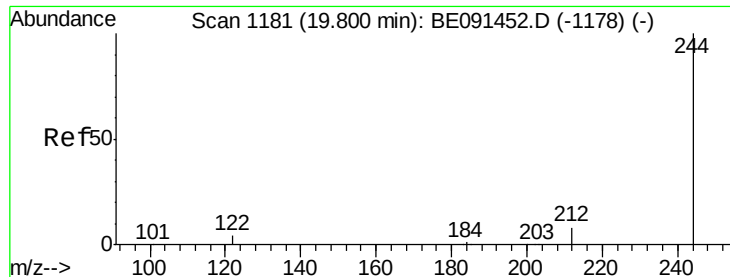


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 0.11 ng

RT: 19.80 min Scan# 1182

Delta R.T. 0.00 min

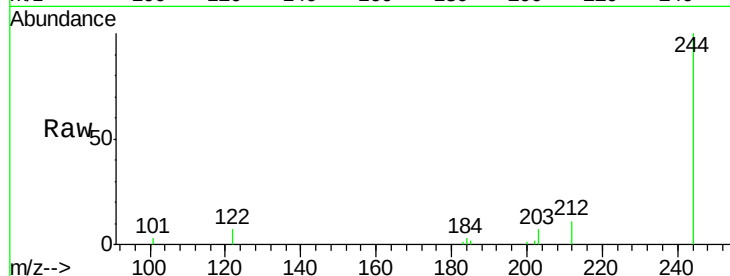
Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

Instrument :

BNA_E

ClientSampleId :



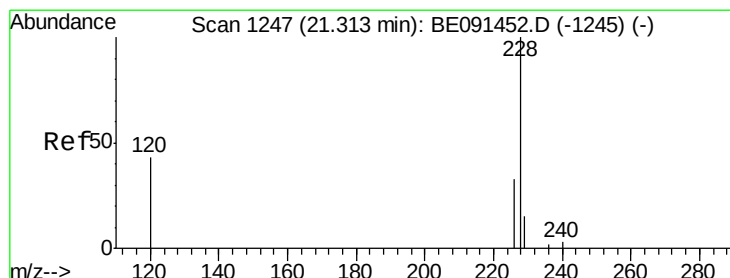
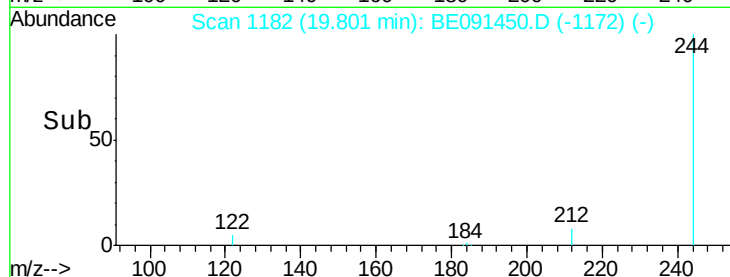
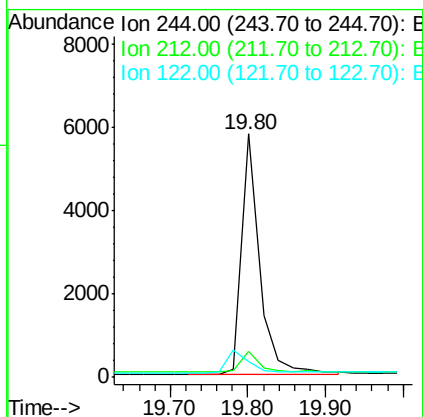
Tot Ion:244 Resp: 9434

Ion Ratio Lower Upper

244 100

212 10.6 6.6 10.0#

122 6.7 3.4 5.0#



#22

Benzo(a)anthracene

Concen: 0.26 ng

RT: 21.38 min Scan# 1251

Delta R.T. 0.07 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

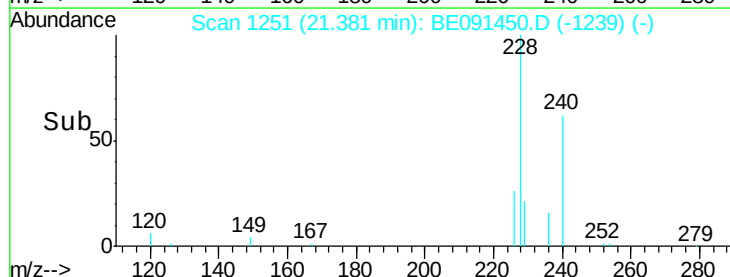
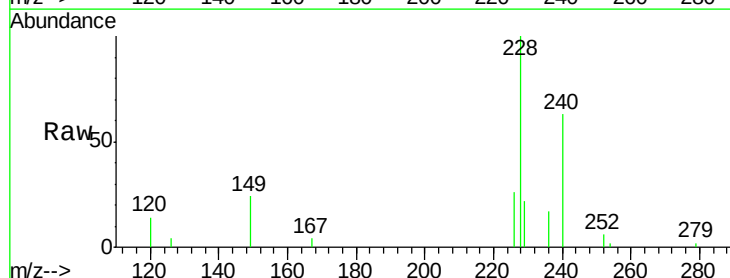
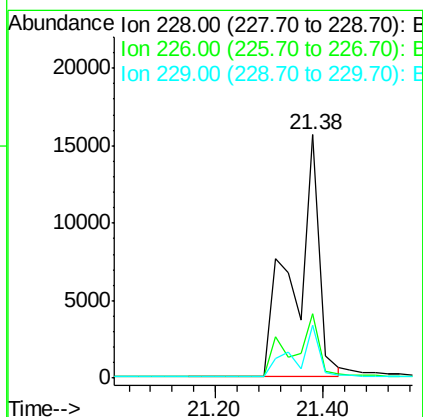
Tgt Ion:228 Resp: 49569

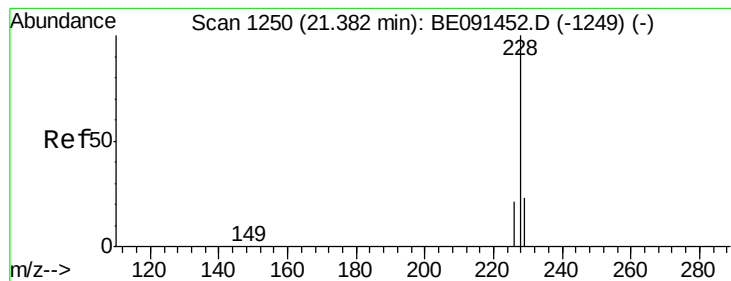
Ion Ratio Lower Upper

228 100

226 26.3 27.1 40.7#

229 21.8 12.3 18.5#





#23

Chrysene

Concen: 0.26 ng

RT: 21.38 min Scan# 1251

Delta R.T. -0.00 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

Instrument :

BNA_E

ClientSampleId :

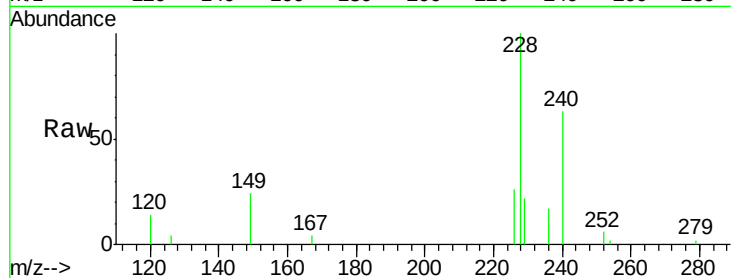
Tot Ion:228 Resp: 50827

Ion Ratio Lower Upper

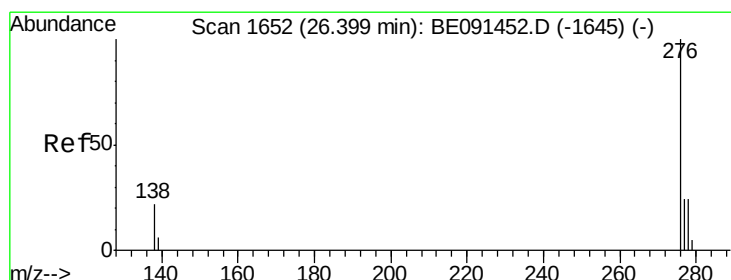
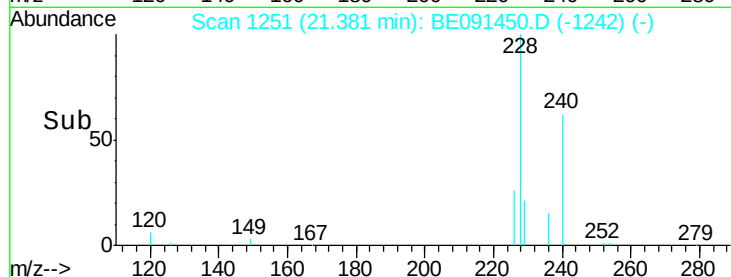
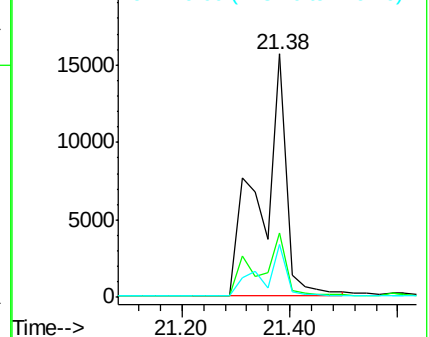
228 100

226 26.3 20.3 30.5

229 21.8 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: 0.12 ng

RT: 26.41 min Scan# 1654

Delta R.T. 0.01 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

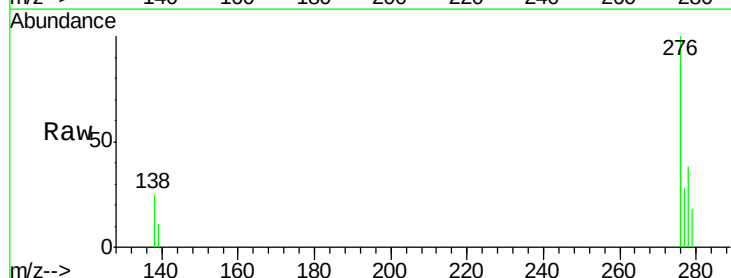
Tgt Ion:276 Resp: 20707

Ion Ratio Lower Upper

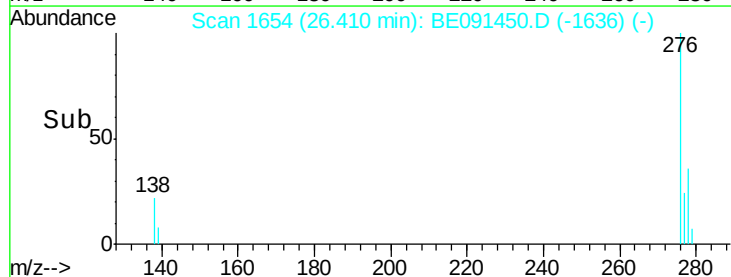
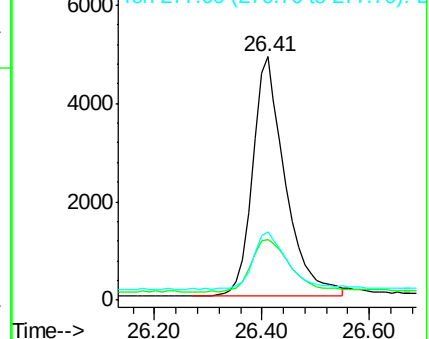
276 100

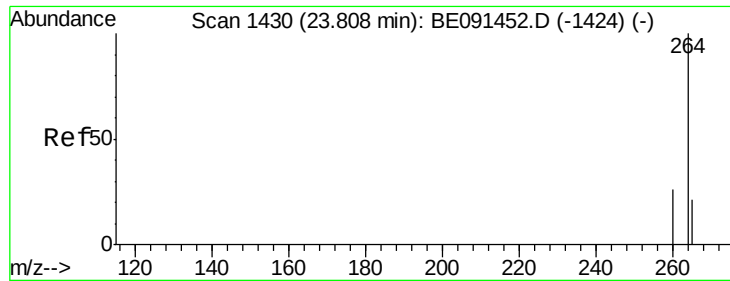
138 26.0 0.0 0.0#

277 25.0 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

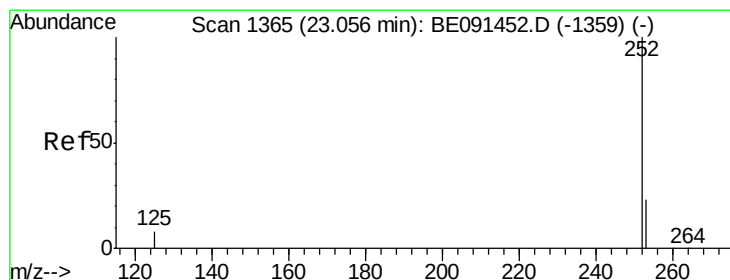
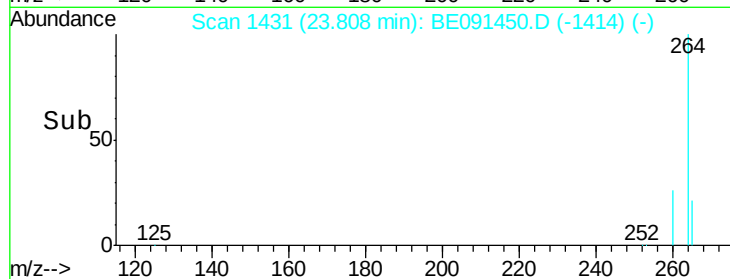
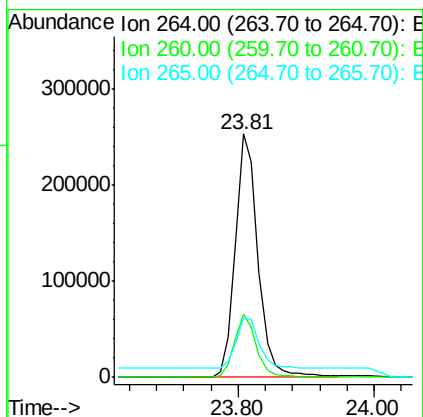
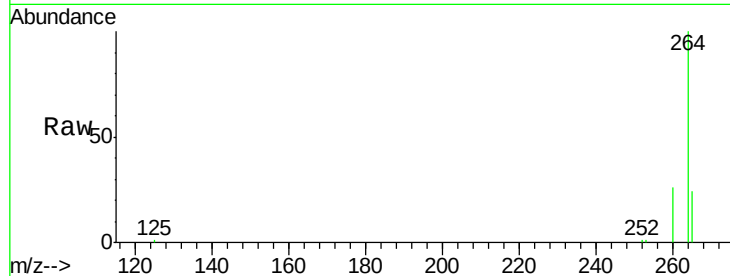




#25
Pervlene-d12
Concen: 5.00 ng
RT: 23.81 min Scan# 1431
Delta R.T. 0.00 min
Lab File: BE091450.D
Acq: 16 Mar 2016 19:22

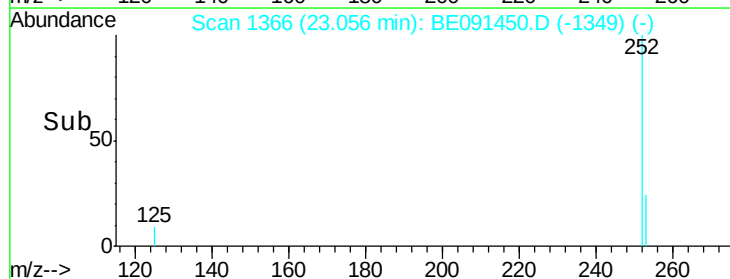
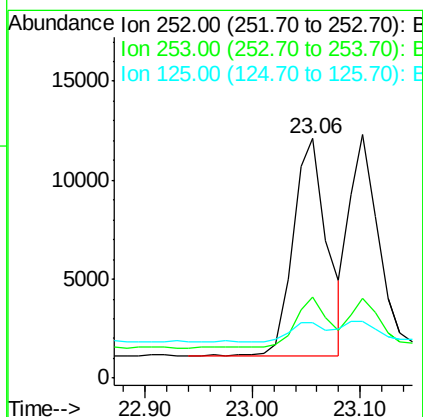
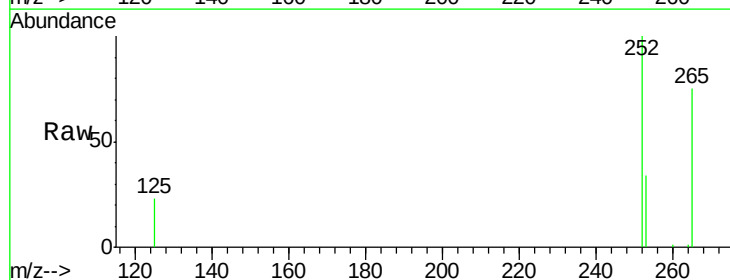
Instrument :
BNA_E
ClientSampleId :

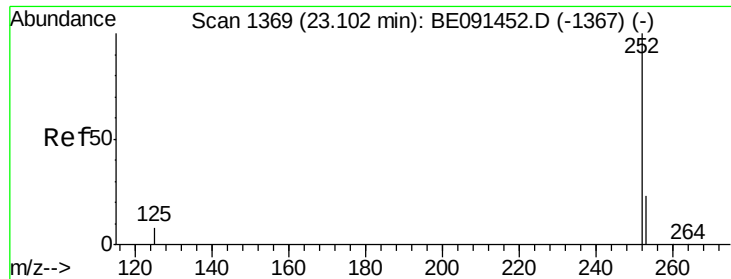
Tot Ion:264 Resp: 588767
Ion Ratio Lower Upper
264 100
260 25.9 20.7 31.1
265 24.4 19.4 29.2



#26
Benzo(b)fluoranthene
Concen: 0.14 ng
RT: 23.06 min Scan# 1366
Delta R.T. 0.00 min
Lab File: BE091450.D
Acq: 16 Mar 2016 19:22

Tgt Ion:252 Resp: 24194
Ion Ratio Lower Upper
252 100
253 34.0 20.6 30.8#
125 23.4 10.2 15.4#

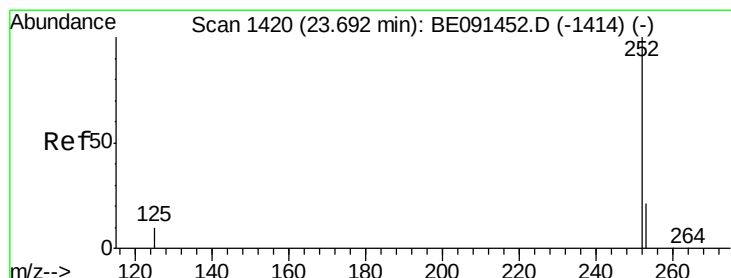
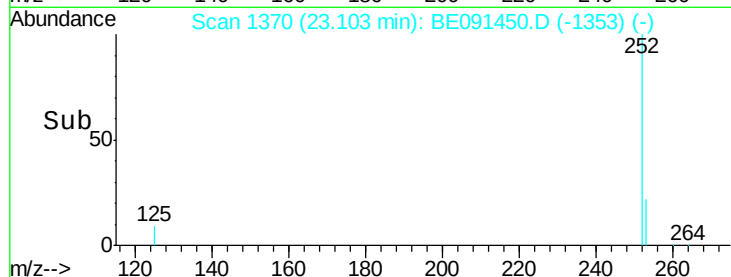
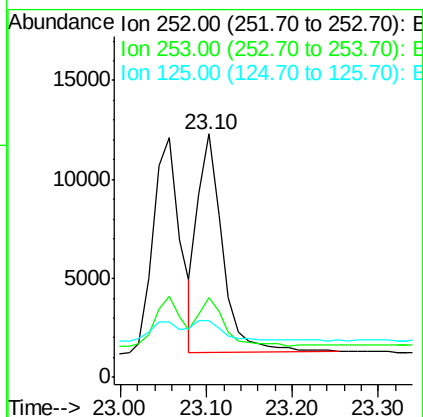
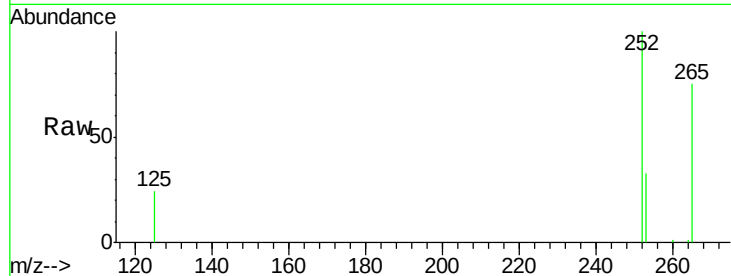




#27
Benzo(k)fluoranthene
Concen: 0.14 ng
RT: 23.10 min Scan# 1370
Delta R.T. 0.00 min
Lab File: BE091450.D
Acq: 16 Mar 2016 19:22

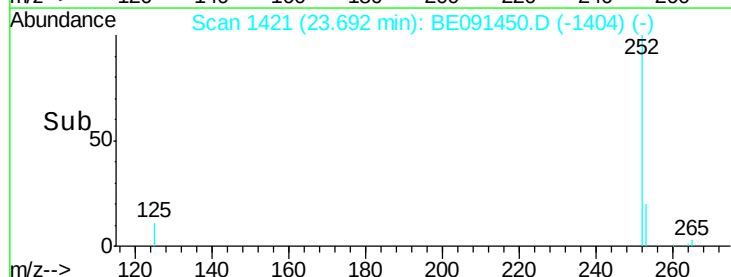
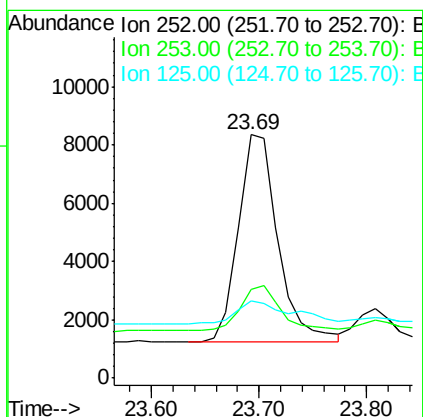
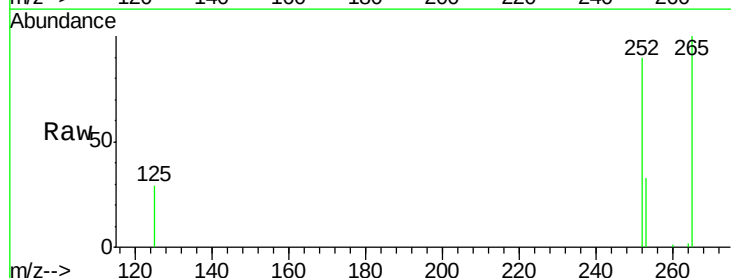
Instrument :
BNA_E
ClientSampleId :

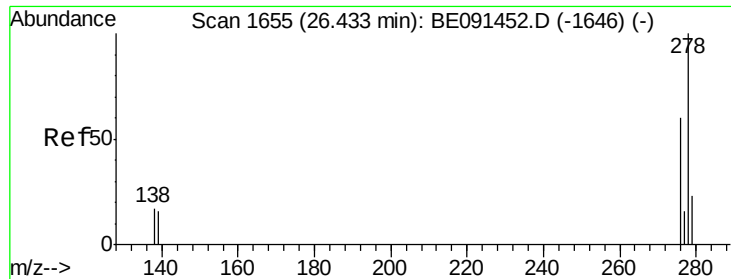
Tot Ion:252 Resp: 22039
Ion Ratio Lower Upper
252 100
253 33.0 20.2 30.2#
125 23.6 10.6 16.0#



#28
Benzo(a)pyrene
Concen: 0.12 ng
RT: 23.69 min Scan# 1421
Delta R.T. 0.00 min
Lab File: BE091450.D
Acq: 16 Mar 2016 19:22

Tgt Ion:252 Resp: 18118
Ion Ratio Lower Upper
252 100
253 36.5 20.0 30.0#
125 31.8 12.7 19.1#





#29

Dibenzo(a,h)anthracene

Concen: 0.12 ng

RT: 26.44 min Scan# 1657

Delta R.T. 0.01 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

Instrument :

BNA_E

ClientSampleId :

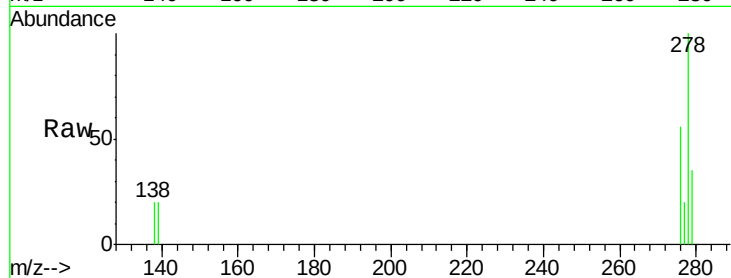
Tot Ion:278 Resp: 17196

Ion Ratio Lower Upper

278 100

139 20.1 13.3 19.9#

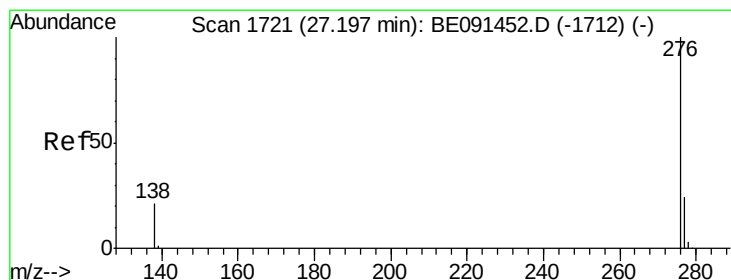
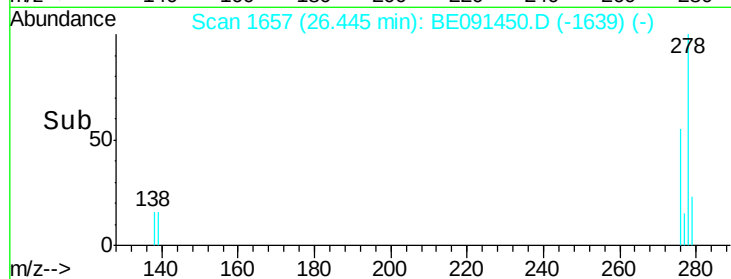
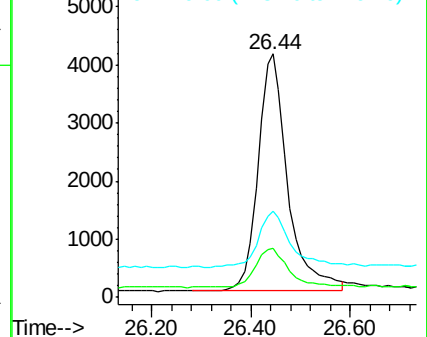
279 35.2 20.9 31.3#



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: 0.12 ng

RT: 27.21 min Scan# 1723

Delta R.T. 0.01 min

Lab File: BE091450.D

Acq: 16 Mar 2016 19:22

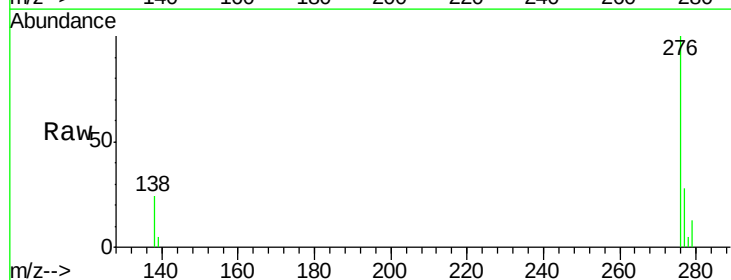
Tgt Ion:276 Resp: 18595

Ion Ratio Lower Upper

276 100

277 27.7 19.8 29.8

138 24.0 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

