

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031616\
 Data File : BE091452.D
 Acq On : 16 Mar 2016 20:37
 Operator : UM/SJ
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 17 07:08:56 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

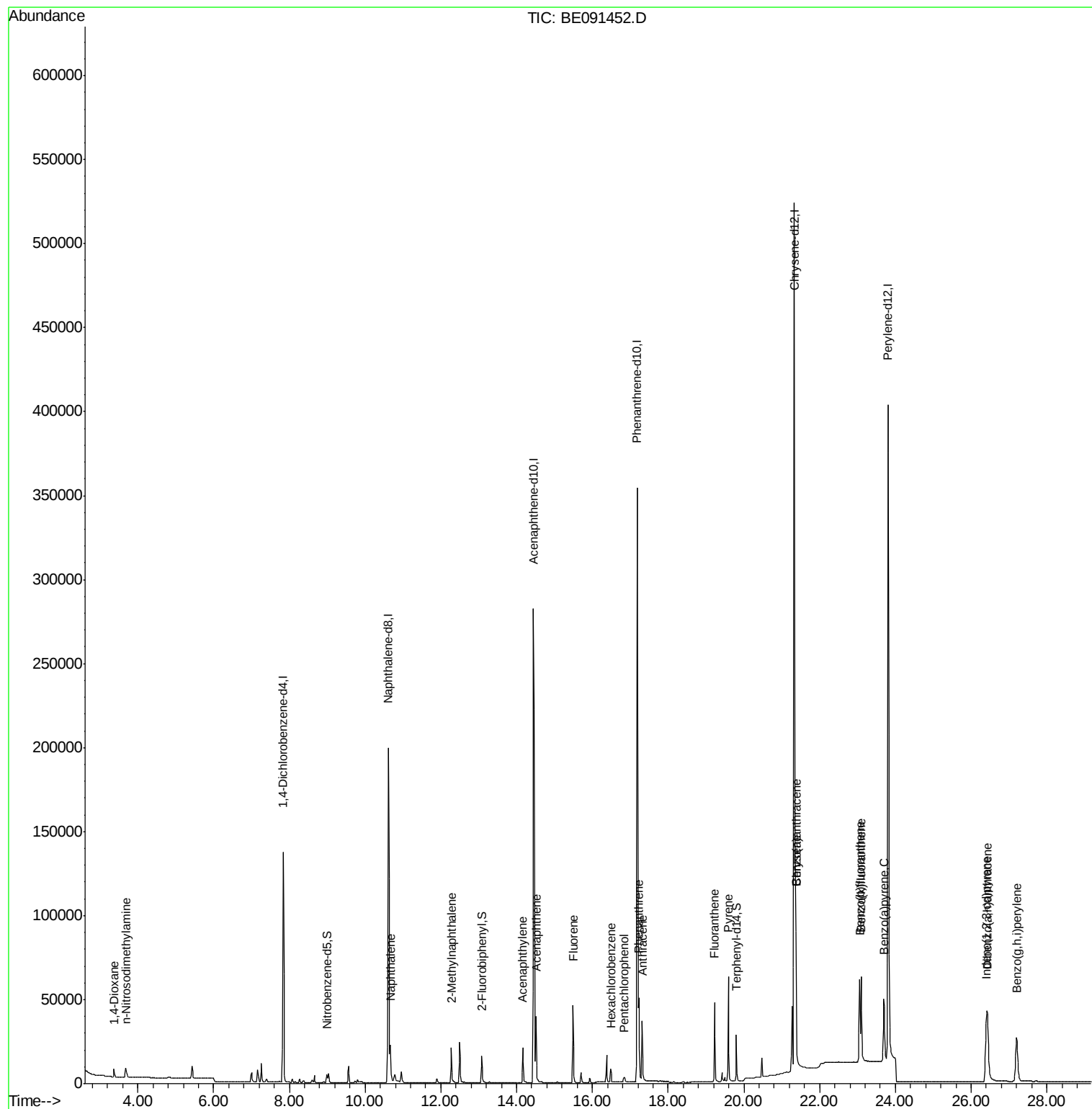
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	71762	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	322491	5.00	ng	0.00
8) Acenaphthene-d10	14.45	164	200086	5.00	ng	0.00
13) Phenanthrene-d10	17.18	188	504334	5.00	ng	0.00
19) Chrysene-d12	21.34	240	633639	5.00	ng	0.00
25) Perylene-d12	23.81	264	632428	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.99	82	4996	0.33	ng	0.00
9) 2-Fluorobiphenyl	13.08	172	18924	0.39	ng	0.00
21) Terphenyl-d14	19.80	244	35819	0.37	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	3.37	88	3588	0.54	ng	# 100
3) n-Nitrosodimethylamine	3.68	42	4981	0.65	ng	# 100
6) Naphthalene	10.67	128	30360	0.41	ng	100
7) 2-Methylnaphthalene	12.27	142	19147	0.43	ng	100
10) Acenaphthylene	14.16	152	28520	0.10	ng	# 100
11) Acenaphthene	14.51	154	22474	0.37	ng	# 100
12) Fluorene	15.49	166	29541	0.38	ng	# 100
14) Hexachlorobenzene	16.50	284	8139	0.28	ng	# 100
15) Pentachlorophenol	16.84	266	3012	0.48	ng	100
16) Phenanthrene	17.23	178	54222	0.31	ng	# 100
17) Anthracene	17.32	178	46305	0.19	ng	# 100
18) Fluoranthene	19.22	202	61197	0.24	ng	# 67
20) Pyrene	19.59	202	66284	0.37	ng	# 92
22) Benzo(a)anthracene	21.38	228	153958	0.70	ng	# 85
23) Chrysene	21.38	228	156207	0.69	ng	100
24) Indeno(1,2,3-cd)pyrene	26.40	276	78212	0.40	ng	# 100
26) Benzo(b)fluoranthene	23.06	252	81798	0.44	ng	100
27) Benzo(k)fluoranthene	23.10	252	72750	0.43	ng	100
28) Benzo(a)pyrene	23.69	252	66367	0.43	ng	100
29) Dibenzo(a,h)anthracene	26.43	278	64609	0.43	ng	100
30) Benzo(g,h,i)perylene	27.20	276	68795	0.43	ng	100

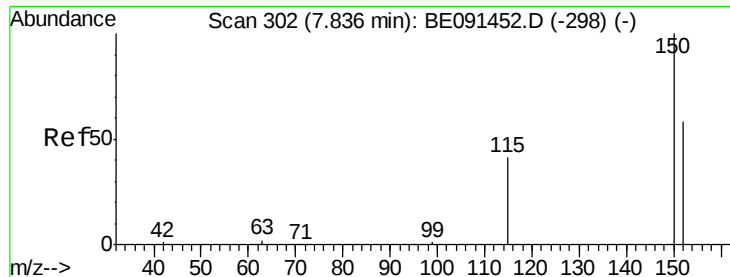
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE091452.D

Acq: 16 Mar 2016 20:37

Instrument :

BNA_E

ClientSampleId :

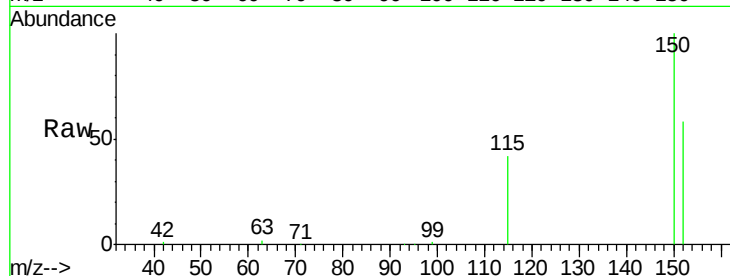
Tot Ion:152 Resp: 71762

Ion Ratio Lower Upper

152 100

150 171.0 136.8 205.2

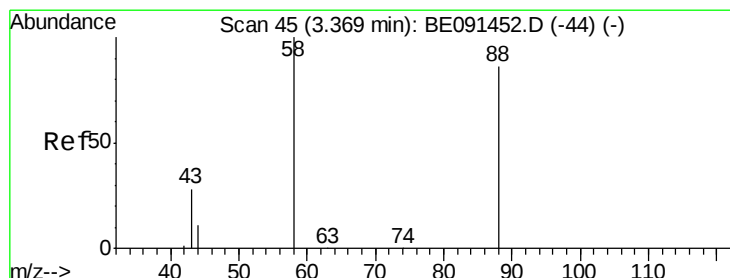
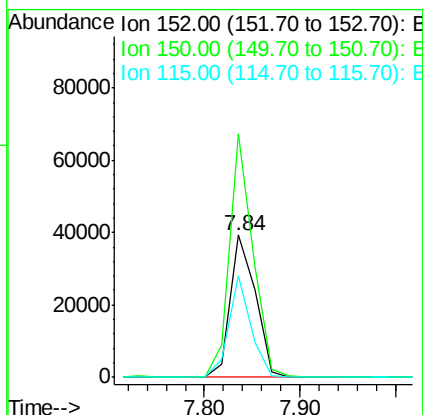
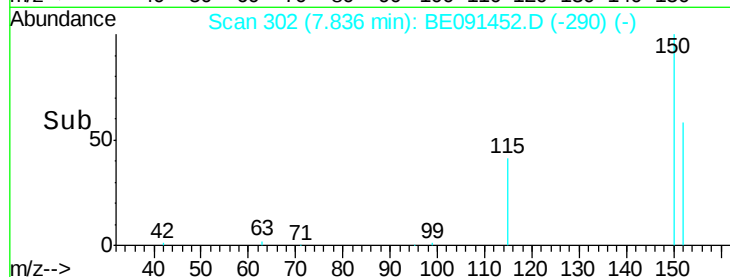
115 71.1 56.9 85.3



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: 0.54 ng

RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

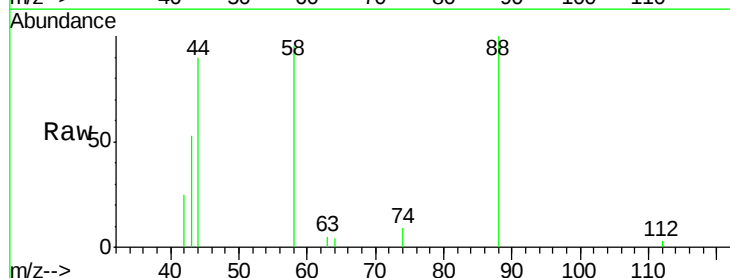
Tgt Ion: 88 Resp: 3588

Ion Ratio Lower Upper

88 100

58 77.1 0.0 0.0#

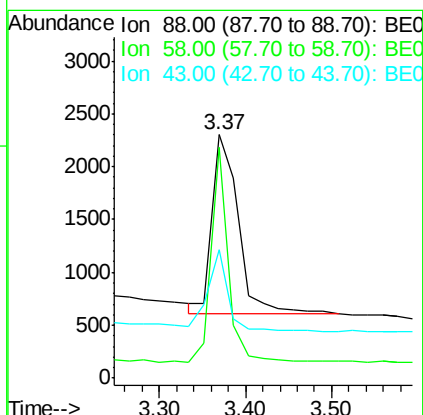
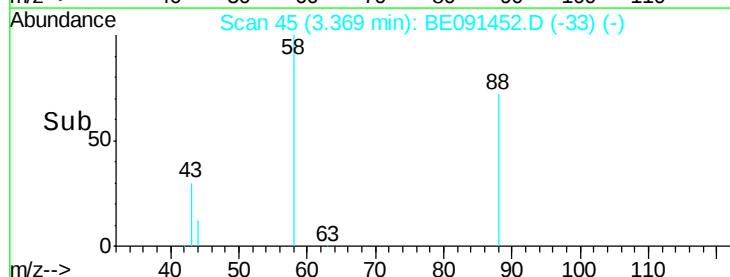
43 38.1 0.0 0.0#

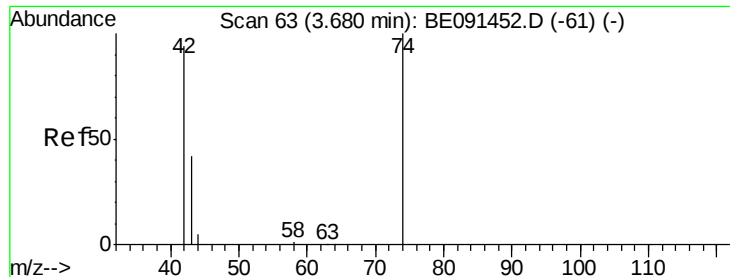


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.65 ng

RT: 3.68 min Scan# 63

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

Instrument :

BNA_E

ClientSampleId :

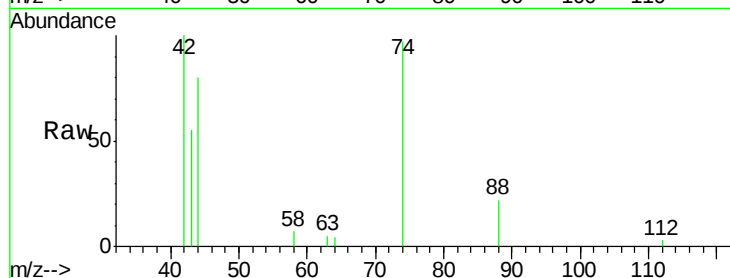
Tot Ion: 42 Resp: 4981

Ion Ratio Lower Upper

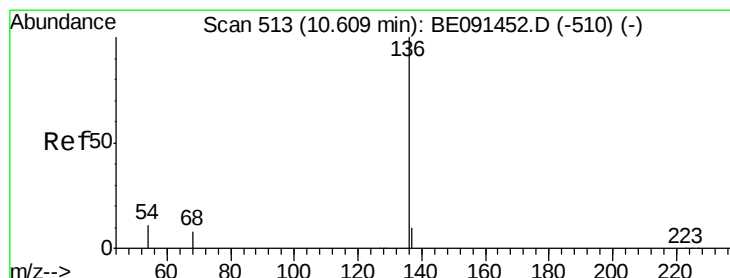
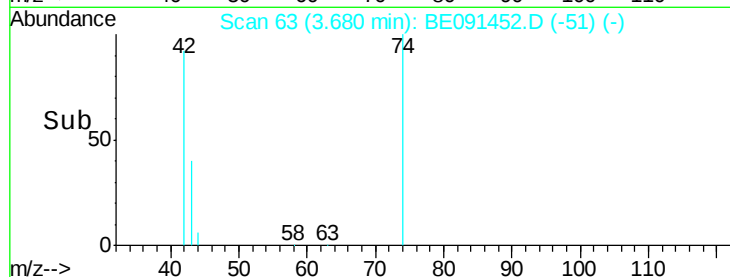
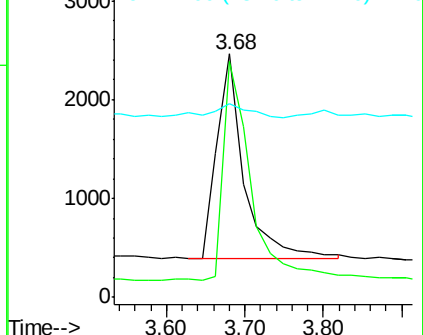
42 100

74 107.7 0.0 0.0#

44 9.8 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: BE091452.D

Acq: 16 Mar 2016 20:37

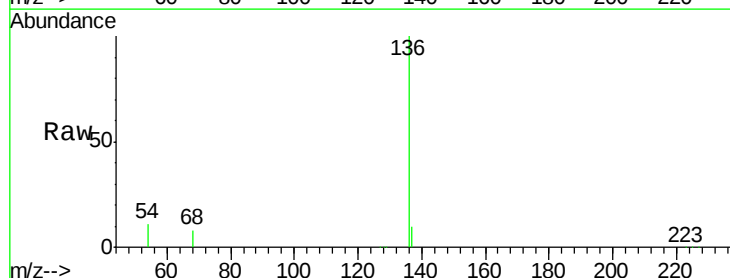
Tgt Ion: 136 Resp: 322491

Ion Ratio Lower Upper

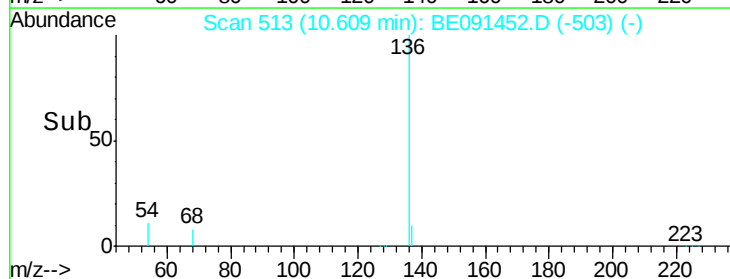
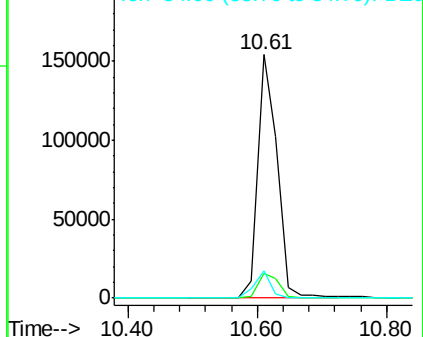
136 100

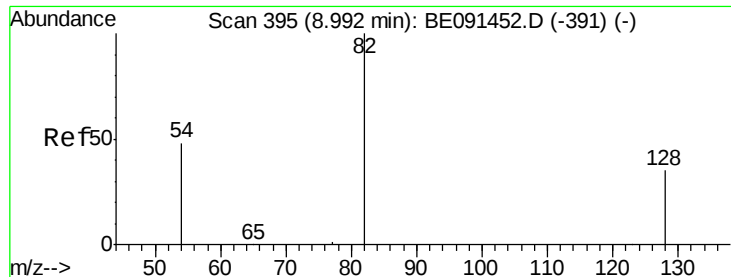
137 10.0 8.0 12.0

54 11.4 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: 0.33 ng

RT: 8.99 min Scan# 395

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

Instrument :

BNA_E

ClientSampleId :

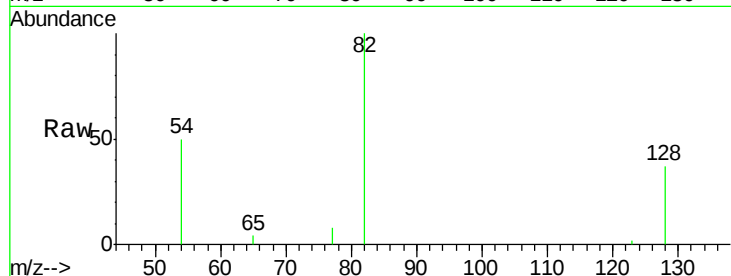
Tot Ion: 82 Resp: 4996

Ion Ratio Lower Upper

82 100

128 36.8 29.4 44.2

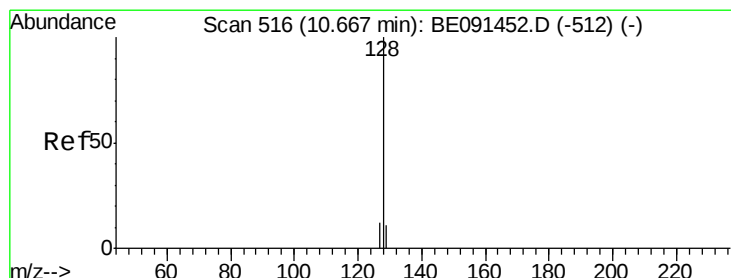
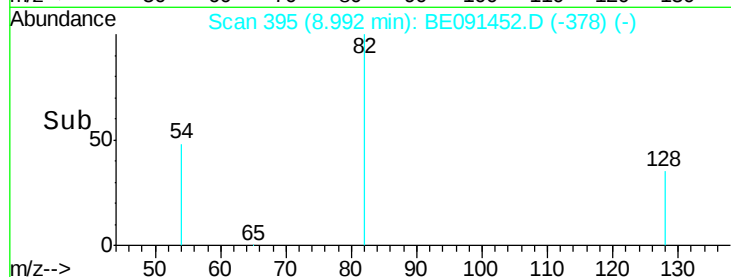
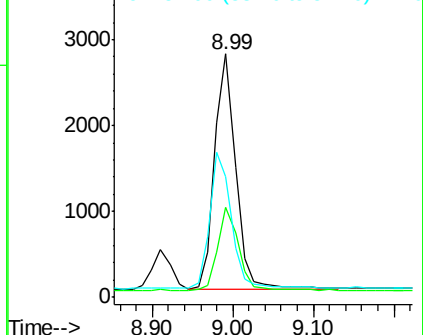
54 49.8 39.8 59.8



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.41 ng

RT: 10.67 min Scan# 516

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

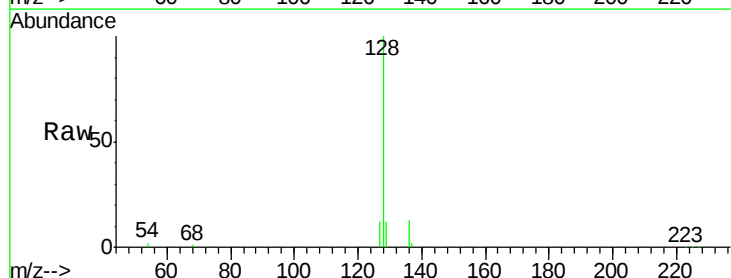
Tgt Ion: 128 Resp: 30360

Ion Ratio Lower Upper

128 100

129 11.7 9.4 14.0

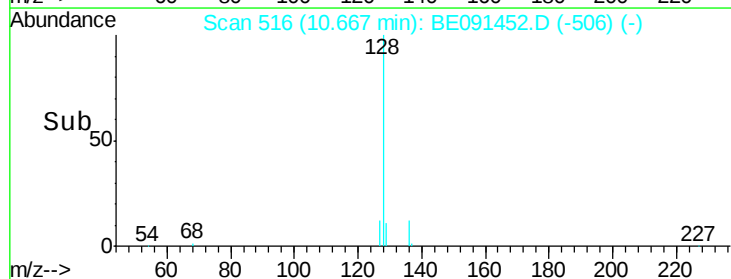
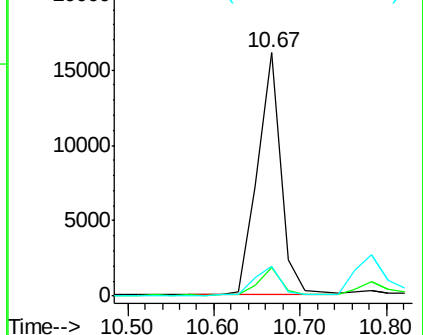
127 12.1 9.7 14.5

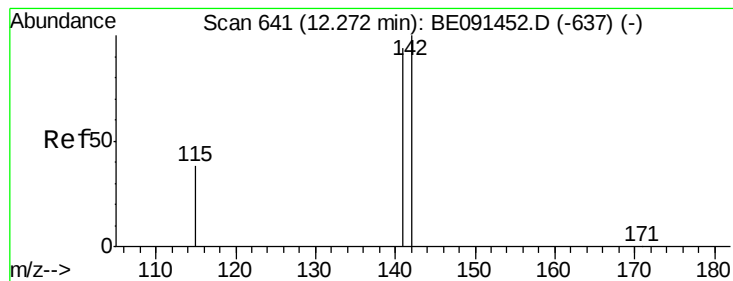


Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#7

2-Methylnaphthalene

Concen: 0.43 ng

RT: 12.27 min Scan# 641

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

Instrument :

BNA_E

ClientSampled :

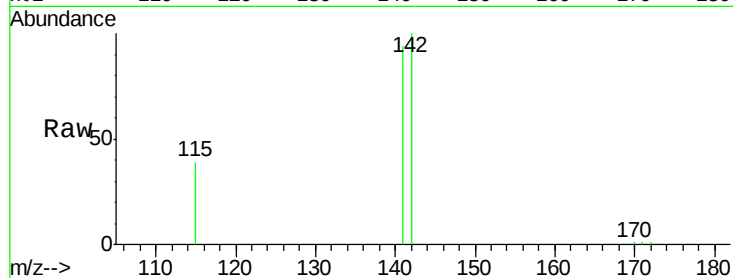
Tot Ion:142 Resp: 19147

Ion Ratio Lower Upper

142 100

141 93.7 75.0 112.4

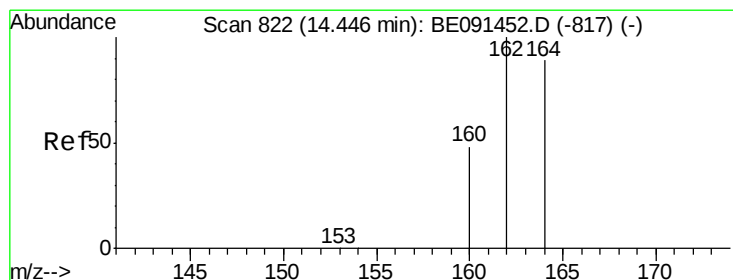
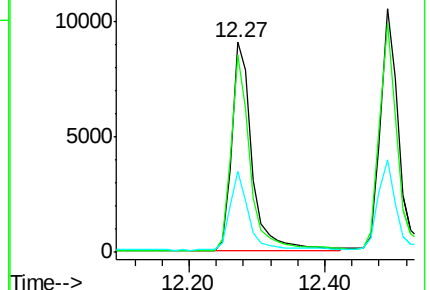
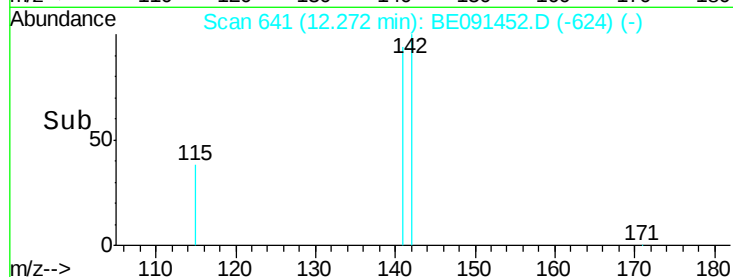
115 38.5 30.8 46.2



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: BE091452.D

Acq: 16 Mar 2016 20:37

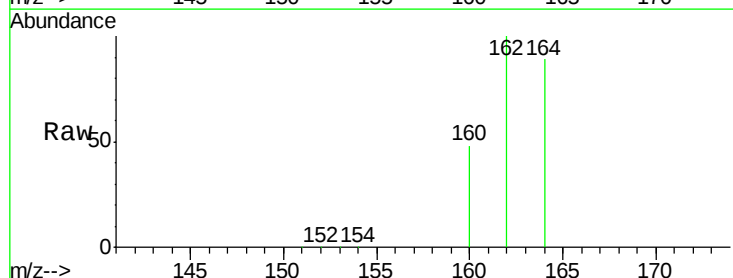
Tgt Ion:164 Resp: 200086

Ion Ratio Lower Upper

164 100

162 112.3 89.8 134.8

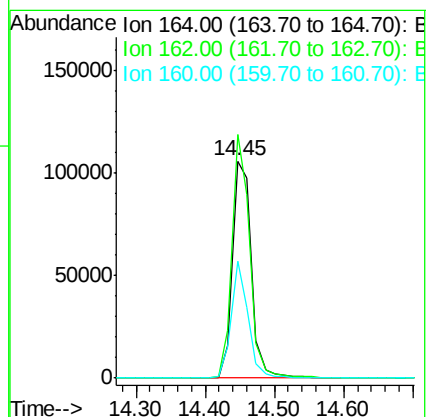
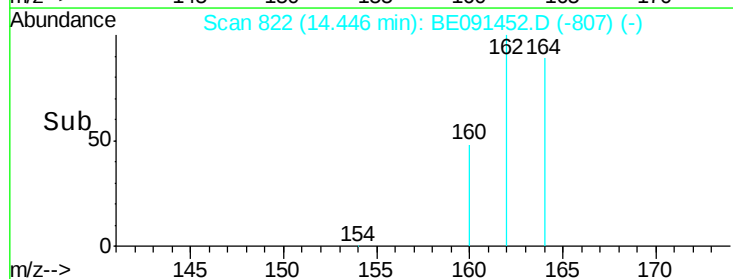
160 53.9 43.1 64.7

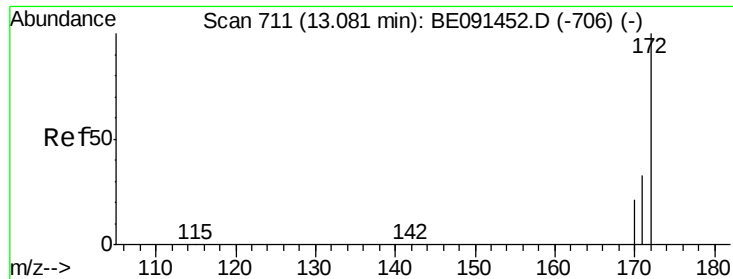


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

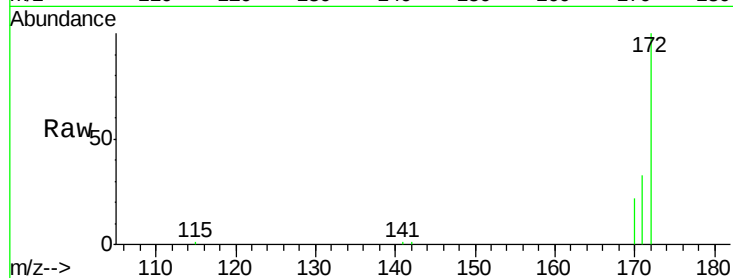




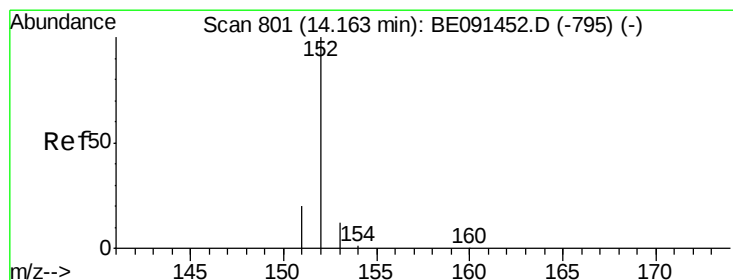
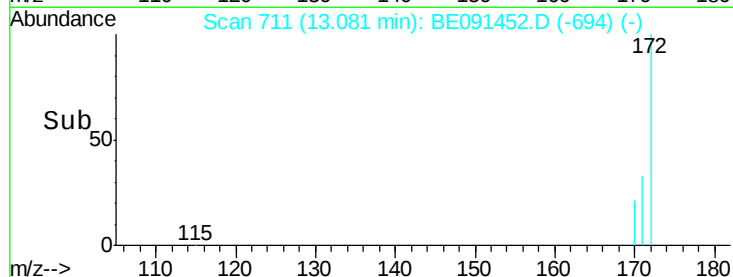
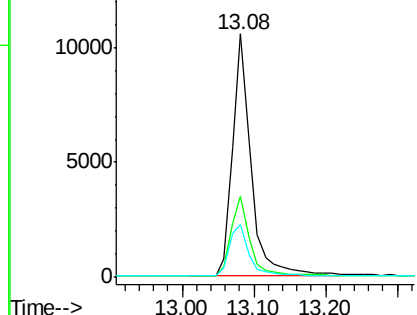
#9
2-Fluorobiphenyl
Concen: 0.39 ng
RT: 13.08 min Scan# 711
Delta R.T. 0.00 min
Lab File: BE091452.D
Acq: 16 Mar 2016 20:37

Instrument :
BNA_E
ClientSampled :

Tot Ion:172 Resp: 18924
Ion Ratio Lower Upper
172 100
171 33.4 26.7 40.1
170 21.8 17.4 26.2

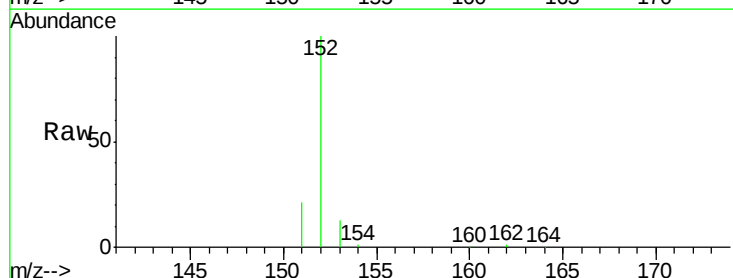


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

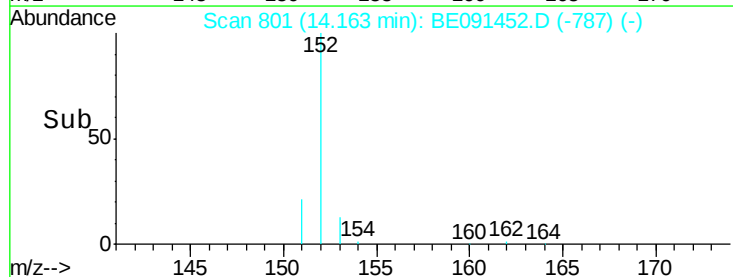
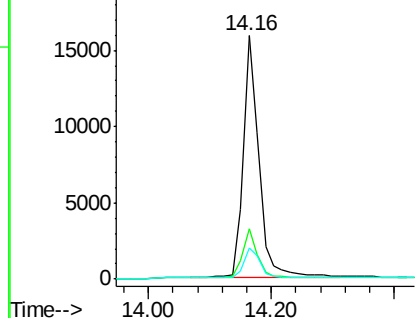


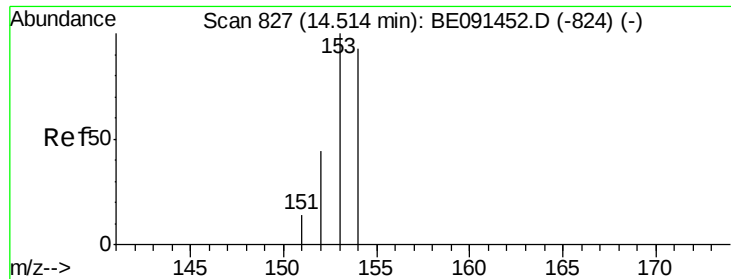
#10
Acenaphthylene
Concen: 0.10 ng
RT: 14.16 min Scan# 801
Delta R.T. 0.00 min
Lab File: BE091452.D
Acq: 16 Mar 2016 20:37

Tgt Ion:152 Resp: 28520
Ion Ratio Lower Upper
152 100
151 20.5 0.0 0.0#
153 13.8 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

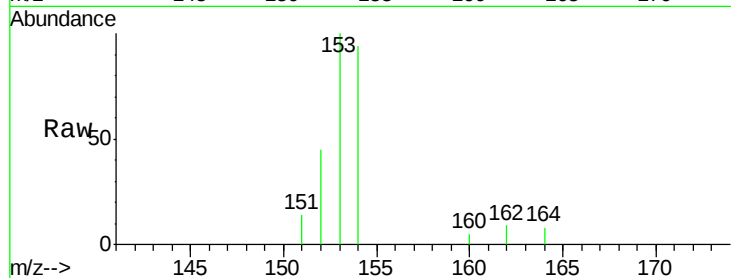




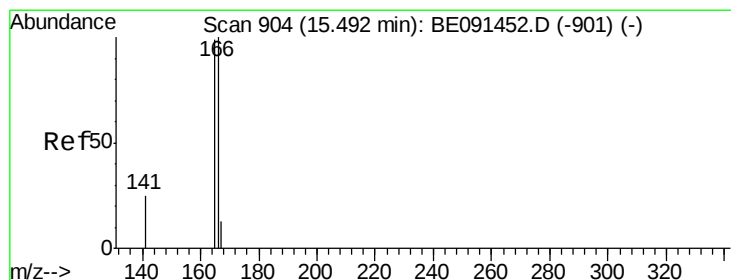
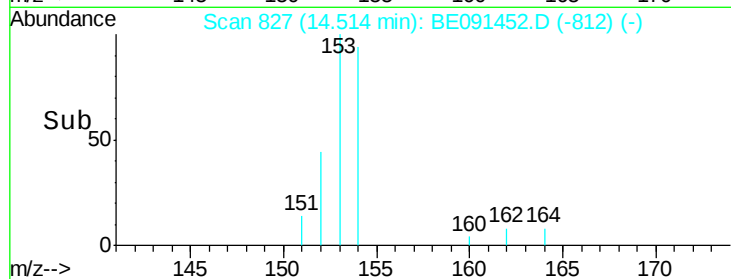
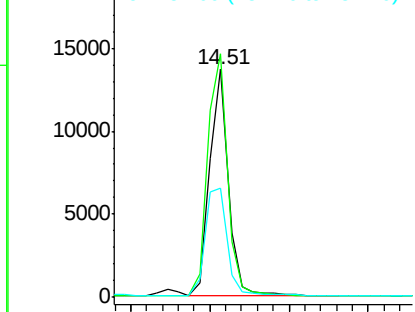
#11
Acenaphthene
Concen: 0.37 ng
RT: 14.51 min Scan# 827
Delta R.T. 0.00 min
Lab File: BE091452.D
Acq: 16 Mar 2016 20:37

Instrument :
BNA_E
ClientSampleId :

Tot Ion:154 Resp: 22474
Ion Ratio Lower Upper
154 100
153 114.4 0.0 0.0#
152 55.6 0.0 0.0#

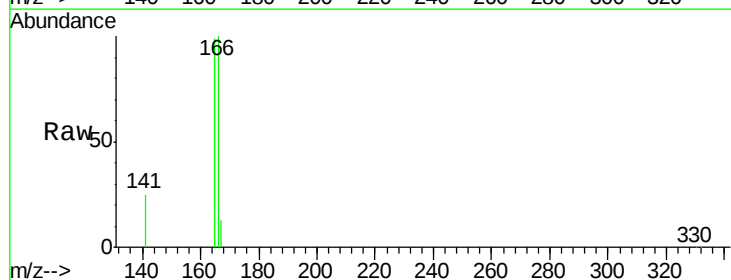


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

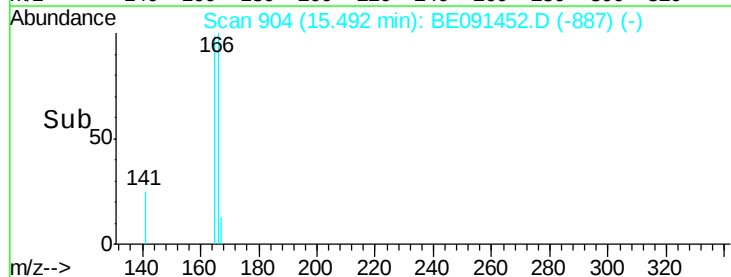
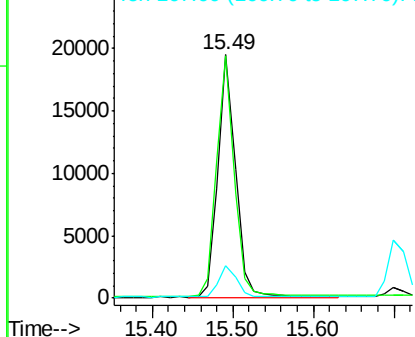


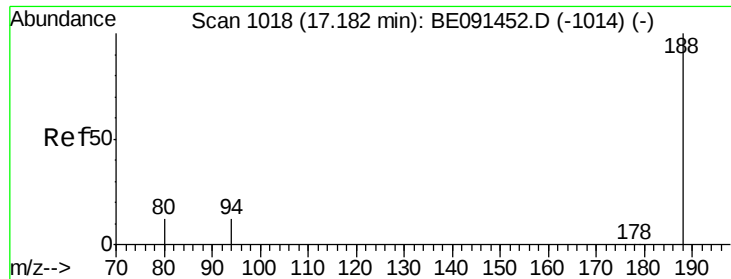
#12
Fluorene
Concen: 0.38 ng
RT: 15.49 min Scan# 904
Delta R.T. 0.00 min
Lab File: BE091452.D
Acq: 16 Mar 2016 20:37

Tgt Ion:166 Resp: 29541
Ion Ratio Lower Upper
166 100
165 99.7 0.0 0.0#
167 13.5 0.0 0.0#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

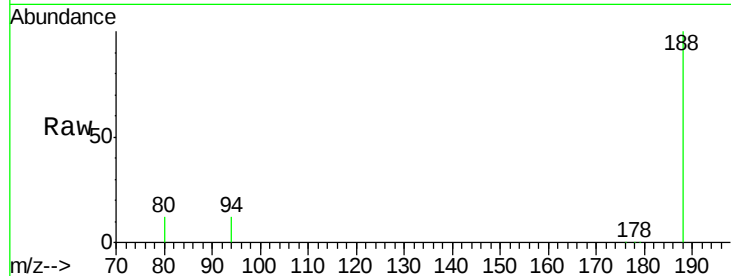




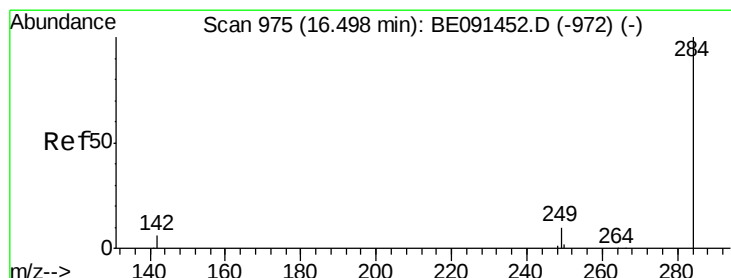
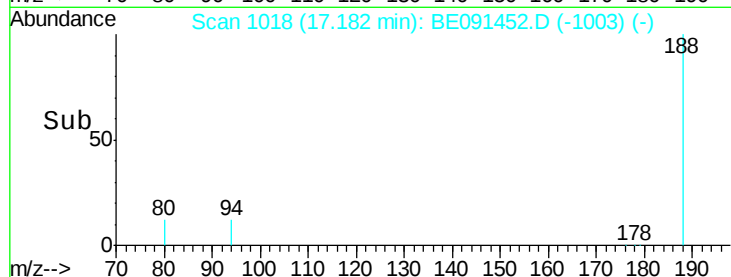
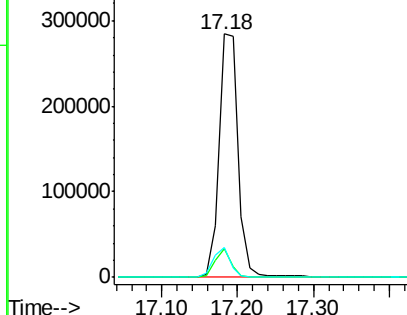
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1018
Delta R.T. 0.00 min
Lab File: BE091452.D
Acq: 16 Mar 2016 20:37

Instrument :
BNA_E
ClientSampleId :

Tot Ion:188 Resp: 504334
Ion Ratio Lower Upper
188 100
94 11.9 9.5 14.3
80 12.3 9.8 14.8

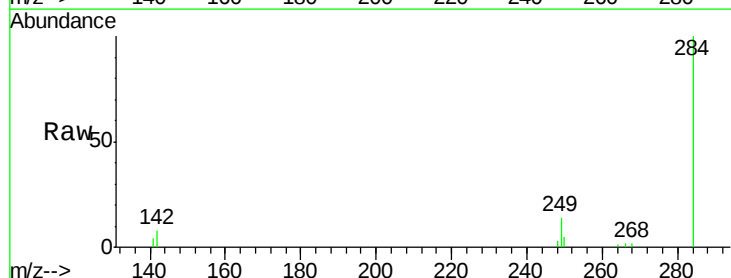


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): E
Ion 80.00 (79.70 to 80.70): E

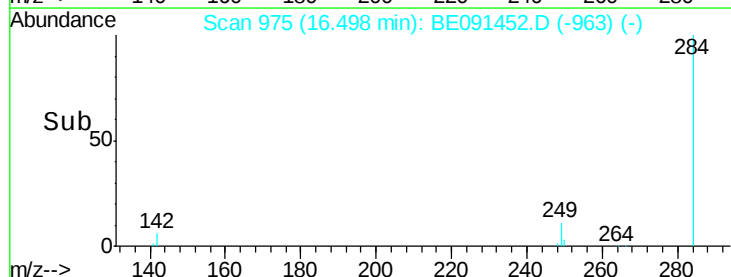
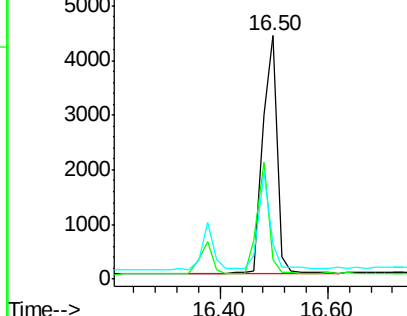


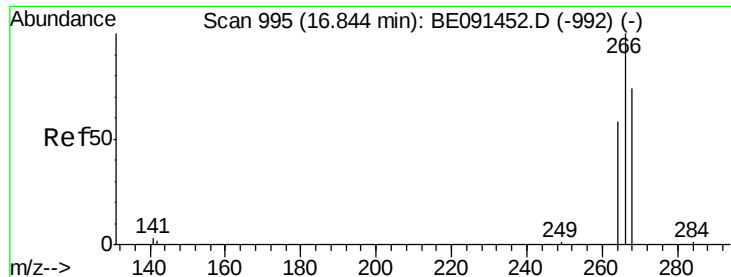
#14
Hexachlorobenzene
Concen: 0.28 ng
RT: 16.50 min Scan# 975
Delta R.T. 0.00 min
Lab File: BE091452.D
Acq: 16 Mar 2016 20:37

Tgt Ion:284 Resp: 8139
Ion Ratio Lower Upper
284 100
142 37.6 0.0 0.0#
249 31.7 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: 0.48 ng

RT: 16.84 min Scan# 995

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

Instrument :

BNA_E

ClientSampleId :

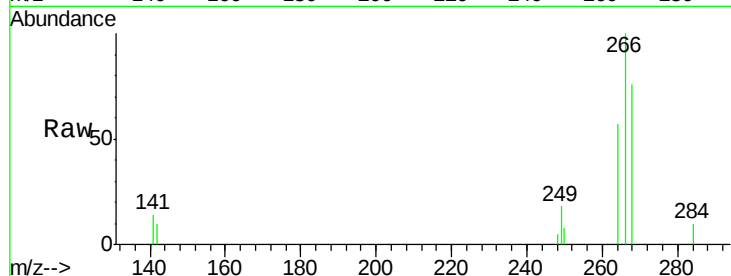
Tot Ion:266 Resp: 3012

Ion Ratio Lower Upper

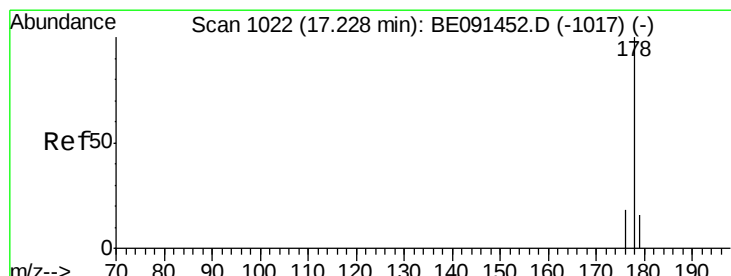
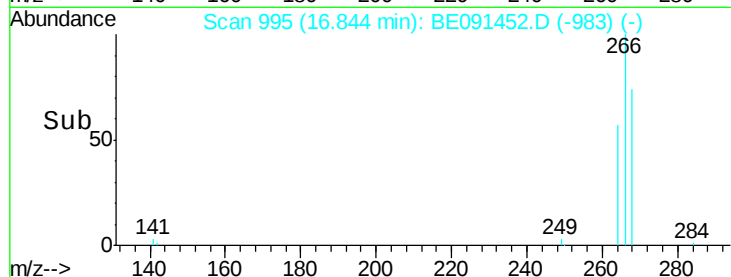
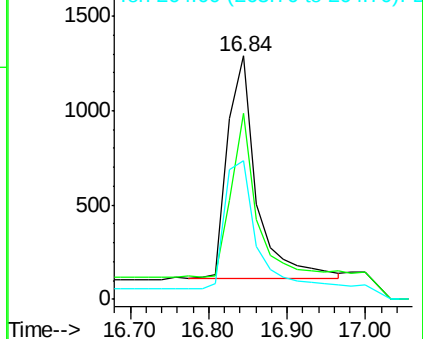
266 100

268 76.3 61.0 91.6

264 57.1 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: 0.31 ng

RT: 17.23 min Scan# 1022

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

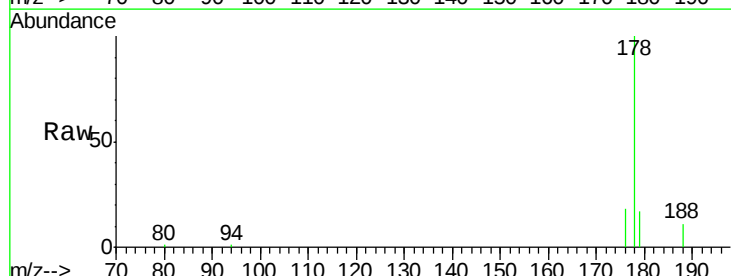
Tgt Ion:178 Resp: 54222

Ion Ratio Lower Upper

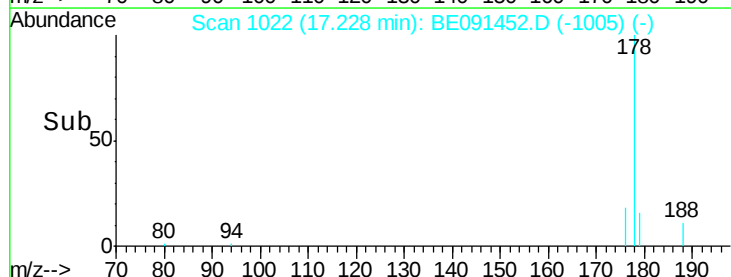
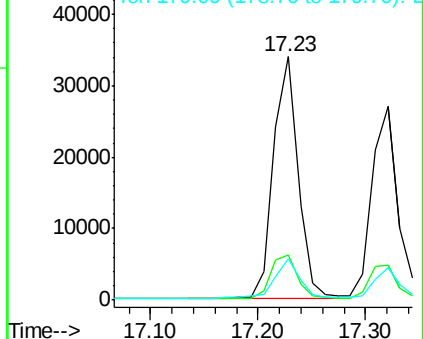
178 100

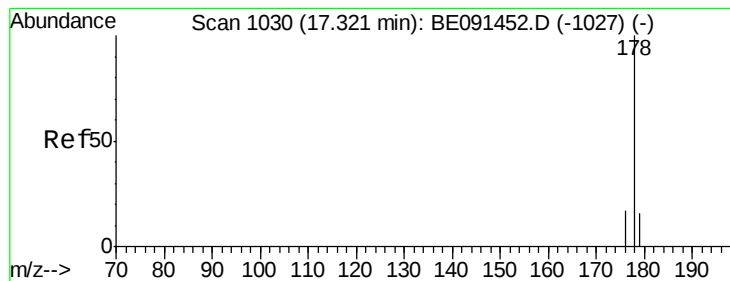
176 19.4 0.0 0.0#

179 16.4 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: 0.19 ng

RT: 17.32 min Scan# 1030

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

Instrument :

BNA_E

ClientSampleId :

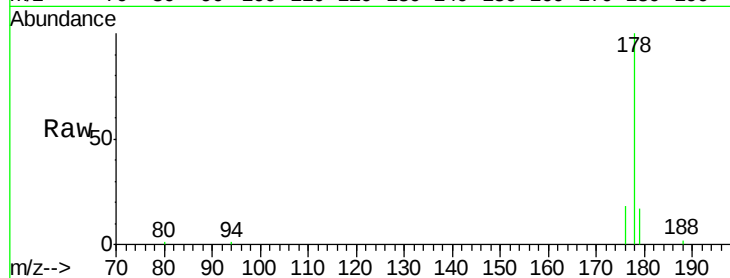
Tot Ion:178 Resp: 46305

Ion Ratio Lower Upper

178 100

176 18.5 0.0 0.0#

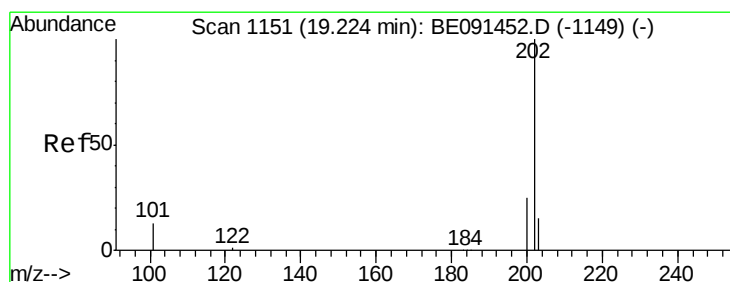
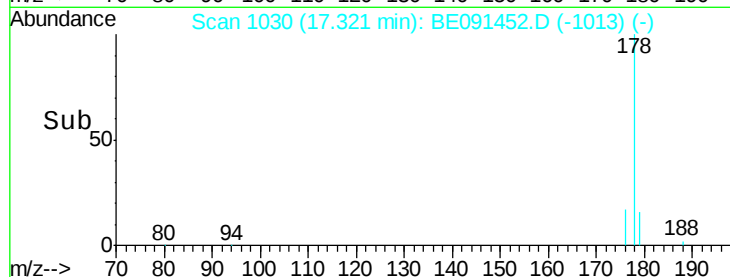
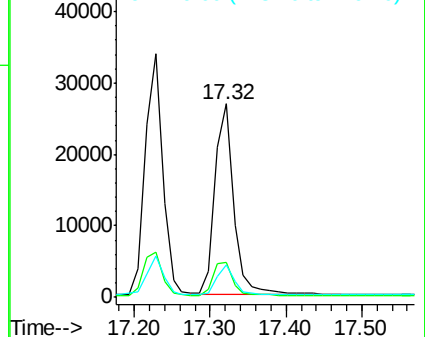
179 15.0 0.0 0.0#



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: 0.24 ng

RT: 19.22 min Scan# 1151

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

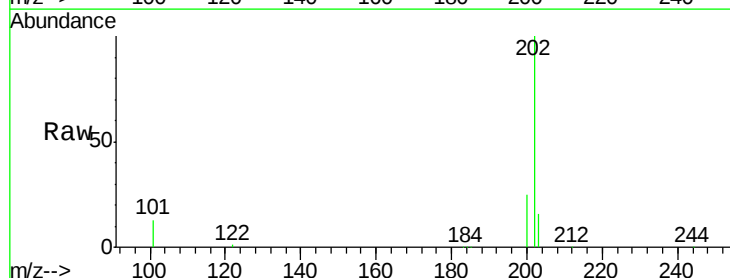
Tgt Ion:202 Resp: 61197

Ion Ratio Lower Upper

202 100

101 11.0 1.1 1.7#

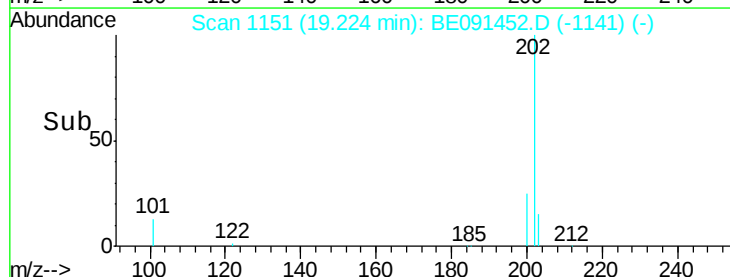
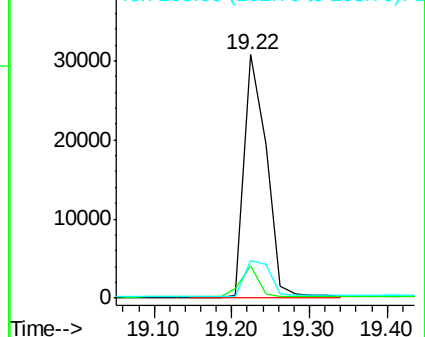
203 17.7 1.0 1.6#

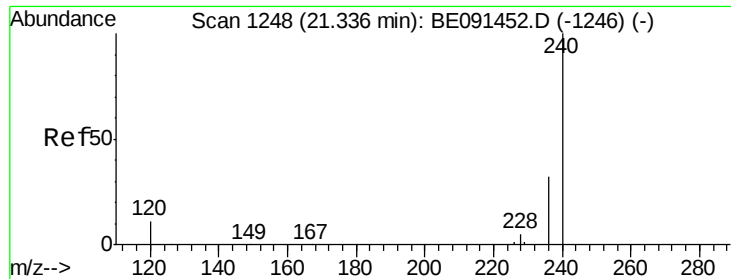


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

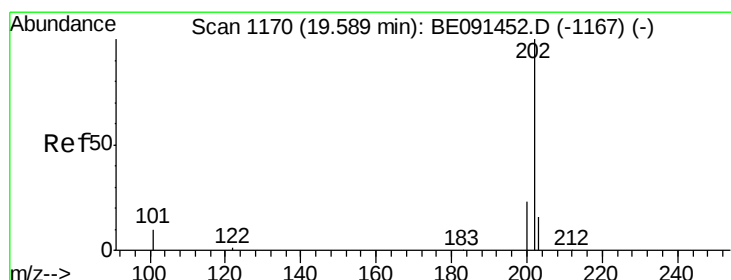
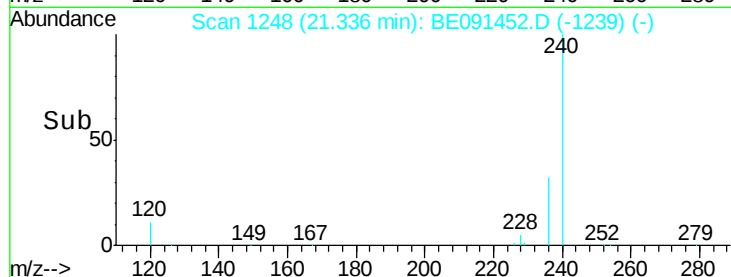
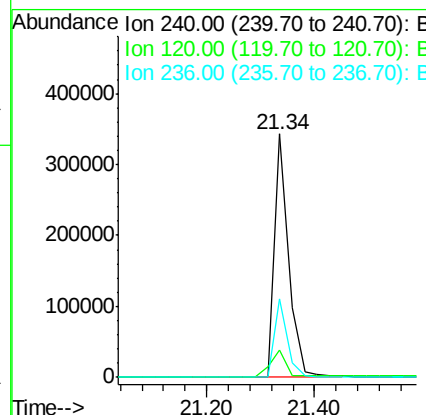
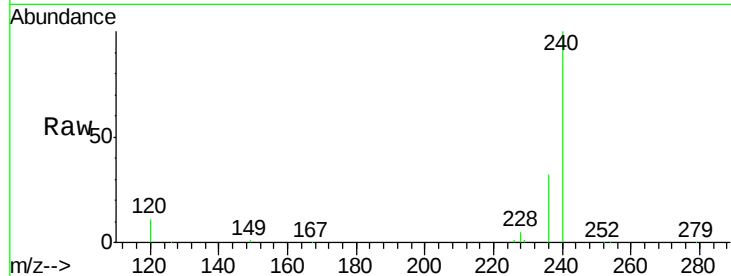




#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.34 min Scan# 1248
Delta R.T. 0.00 min
Lab File: BE091452.D
Acq: 16 Mar 2016 20:37

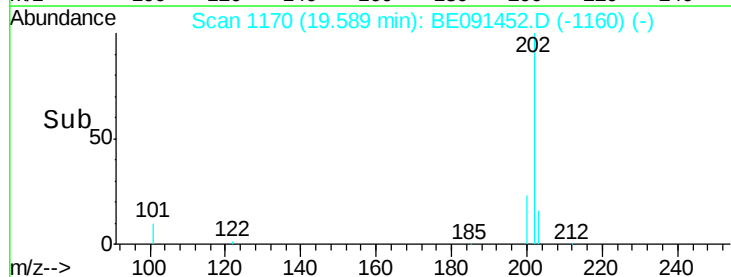
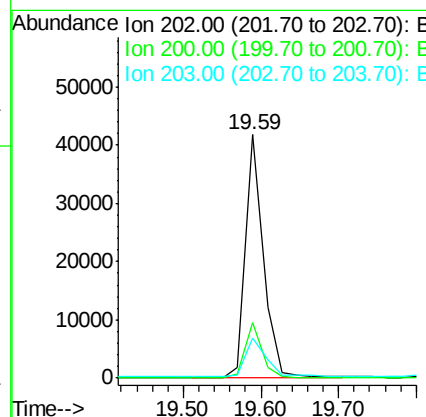
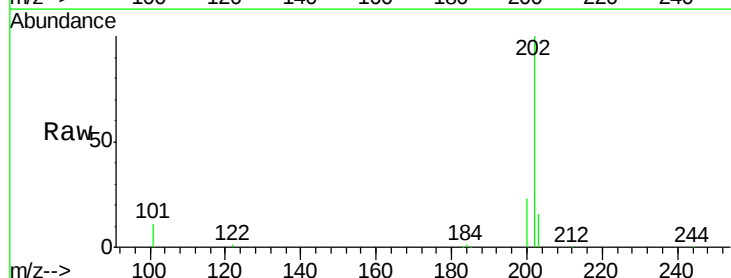
Instrument :
BNA_E
ClientSampleId :

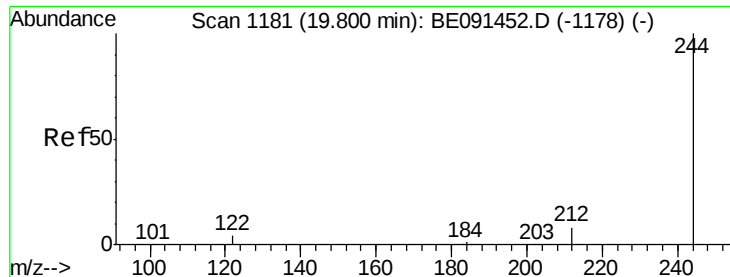
Tot Ion:240 Resp: 633639
Ion Ratio Lower Upper
240 100
120 11.0 8.8 13.2
236 32.1 25.7 38.5



#20
Pyrene
Concen: 0.37 ng
RT: 19.59 min Scan# 1170
Delta R.T. 0.00 min
Lab File: BE091452.D
Acq: 16 Mar 2016 20:37

Tgt Ion:202 Resp: 66284
Ion Ratio Lower Upper
202 100
200 21.4 0.0 0.0#
203 17.9 0.1 0.1#

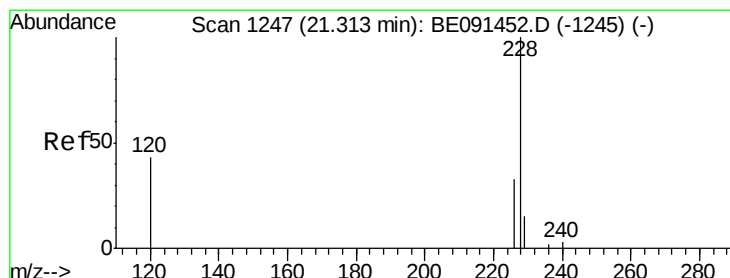
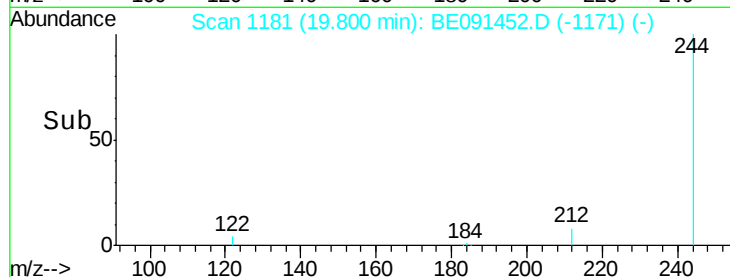
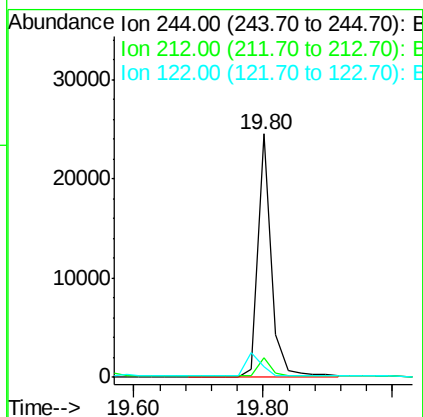
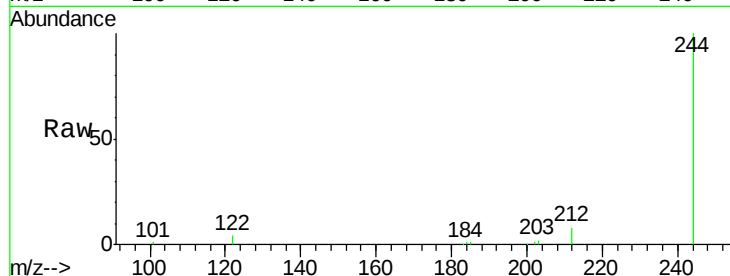




#21
 Terphenyl-d14
 Concen: 0.37 ng
 RT: 19.80 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: BE091452.D
 Acq: 16 Mar 2016 20:37

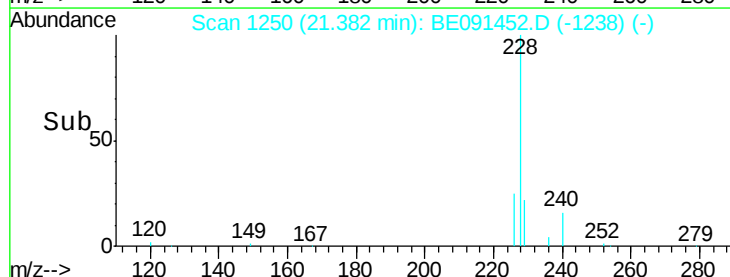
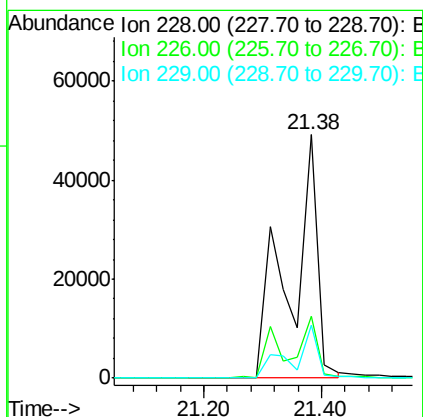
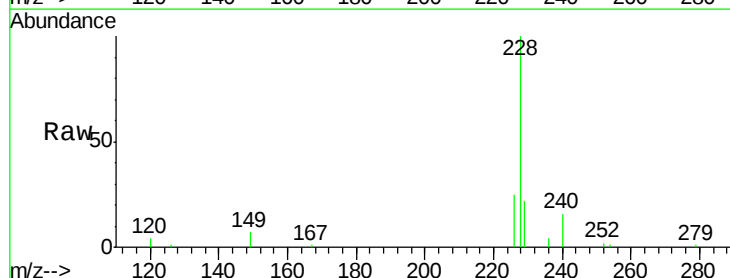
Instrument :
 BNA_E
 ClientSampleId :

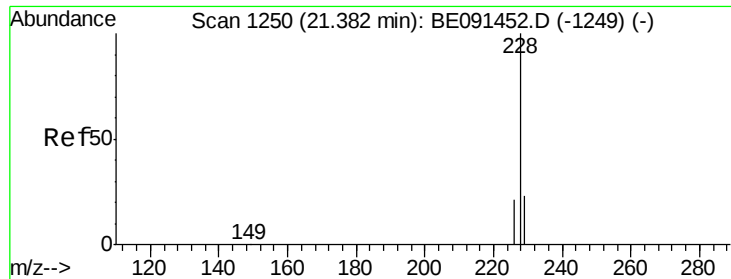
Tot Ion:244 Resp: 35819
 Ion Ratio Lower Upper
 244 100
 212 8.3 6.6 10.0
 122 4.2 3.4 5.0



#22
 Benzo(a)anthracene
 Concen: 0.70 ng
 RT: 21.38 min Scan# 1250
 Delta R.T. 0.07 min
 Lab File: BE091452.D
 Acq: 16 Mar 2016 20:37

Tgt Ion:228 Resp: 153958
 Ion Ratio Lower Upper
 228 100
 226 25.4 27.1 40.7#
 229 21.7 12.3 18.5#





#23

Chrysene

Concen: 0.69 ng

RT: 21.38 min Scan# 1250

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

Instrument :

BNA_E

ClientSampleId :

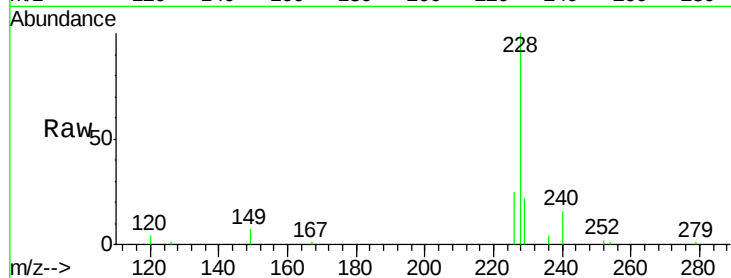
Tot Ion:228 Resp: 156207

Ion Ratio Lower Upper

228 100

226 25.4 20.3 30.5

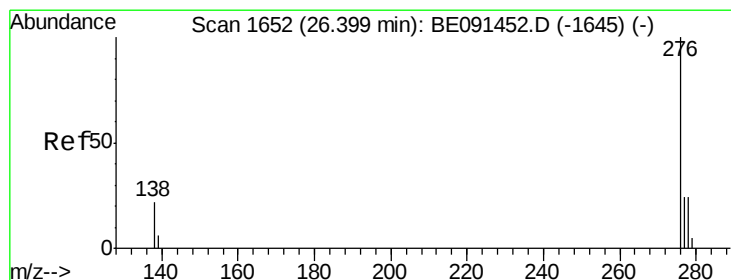
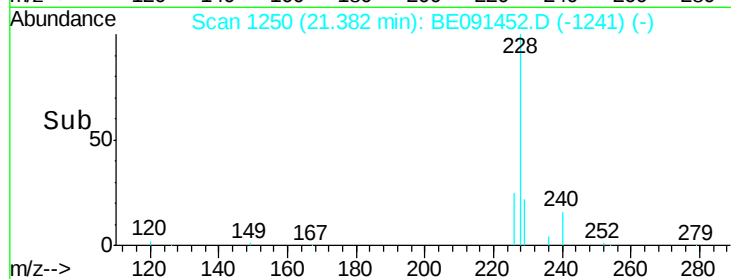
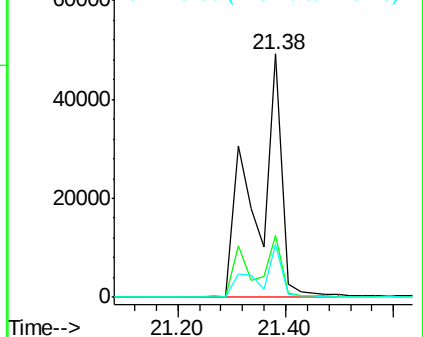
229 21.7 17.4 26.0



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: 0.40 ng

RT: 26.40 min Scan# 1652

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

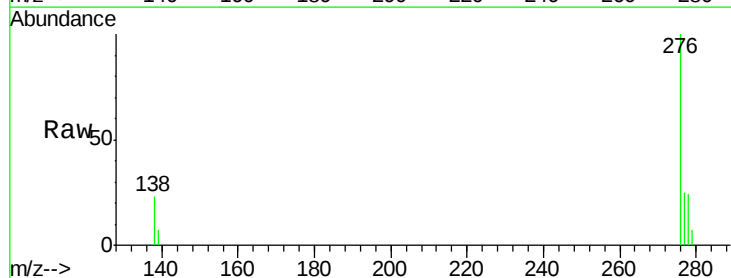
Tgt Ion:276 Resp: 78212

Ion Ratio Lower Upper

276 100

138 24.7 0.0 0.0#

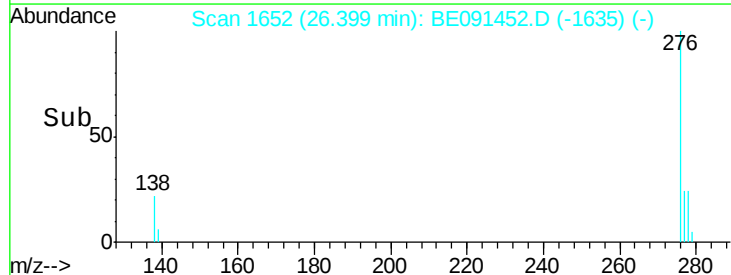
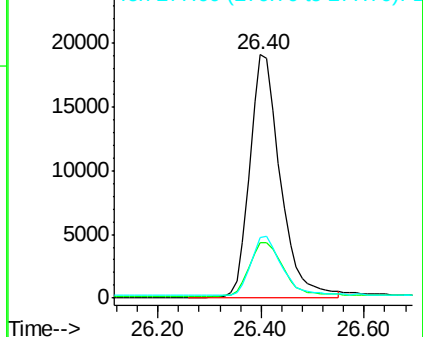
277 25.0 0.0 0.0#

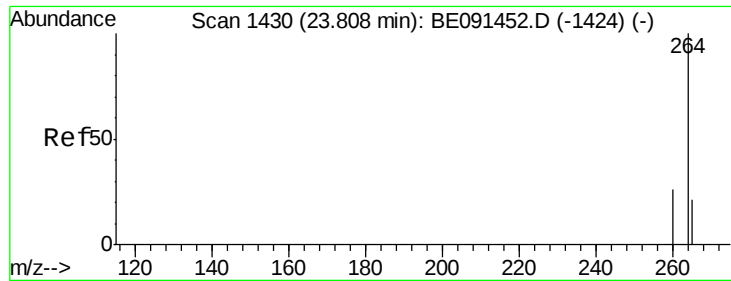


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

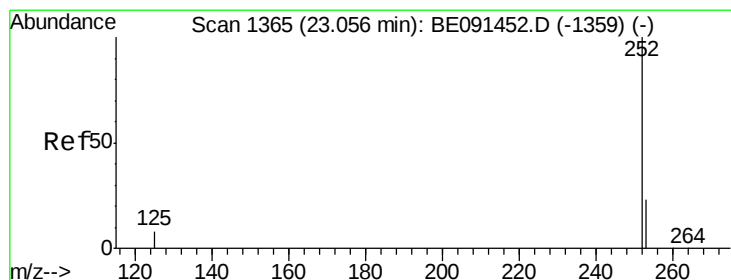
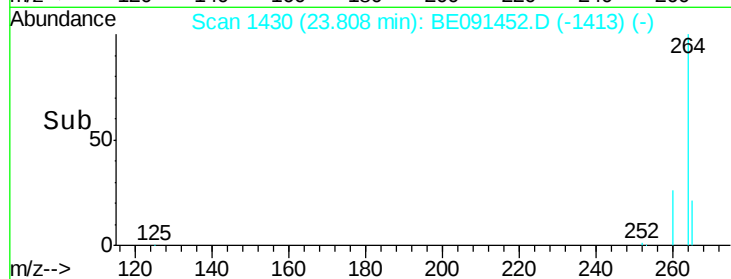
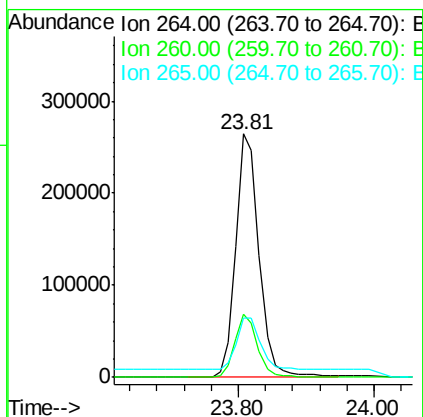
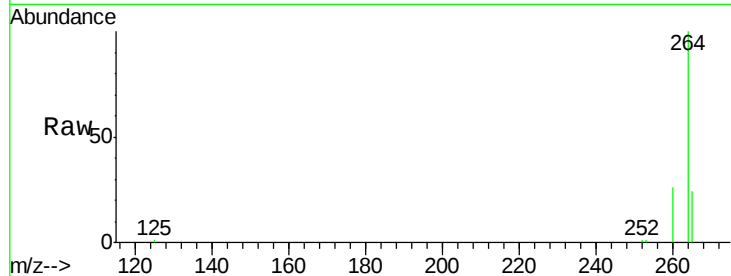




#25
 Pervlene-d12
 Concen: 5.00 ng
 RT: 23.81 min Scan# 1430
 Delta R.T. 0.00 min
 Lab File: BE091452.D
 Acq: 16 Mar 2016 20:37

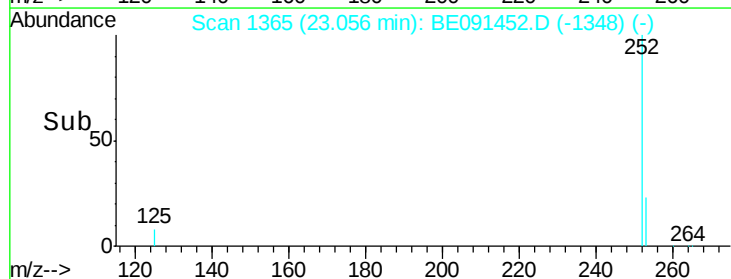
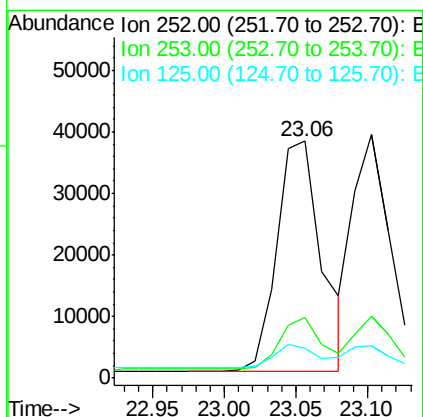
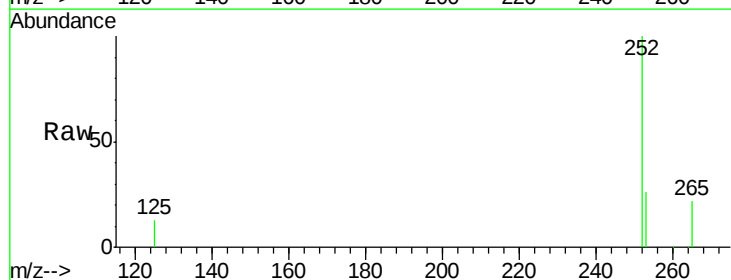
Instrument :
 BNA_E
 ClientSampleId :

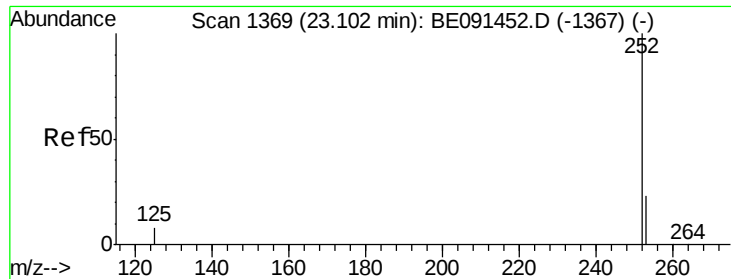
Tot Ion:264 Resp: 632428
 Ion Ratio Lower Upper
 264 100
 260 25.9 20.7 31.1
 265 24.3 19.4 29.2



#26
 Benzo(b)fluoranthene
 Concen: 0.44 ng
 RT: 23.06 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: BE091452.D
 Acq: 16 Mar 2016 20:37

Tgt Ion:252 Resp: 81798
 Ion Ratio Lower Upper
 252 100
 253 25.7 20.6 30.8
 125 12.8 10.2 15.4

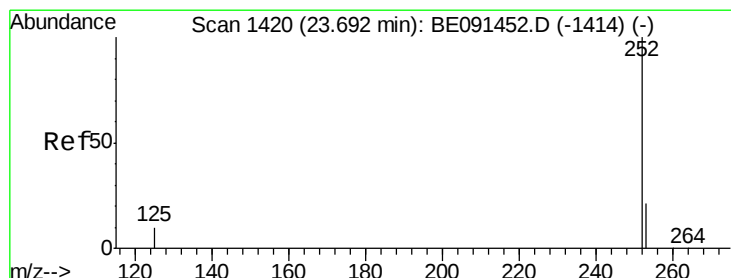
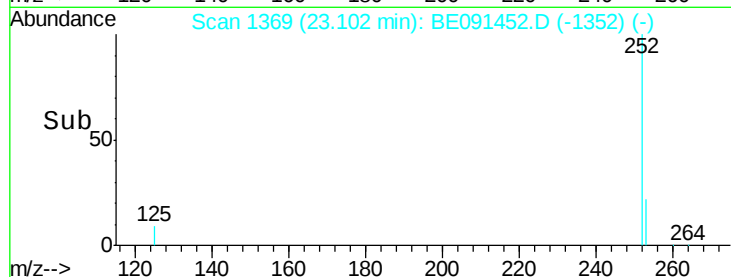
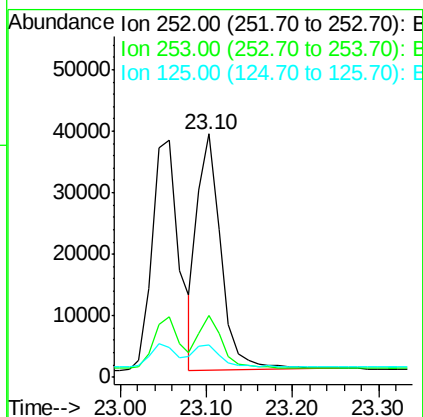
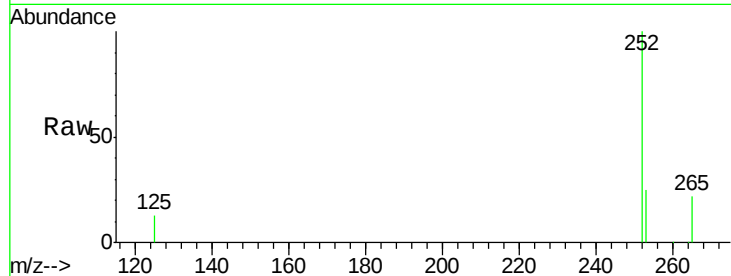




#27
Benzo(k)fluoranthene
Concen: 0.43 ng
RT: 23.10 min Scan# 1369
Delta R.T. 0.00 min
Lab File: BE091452.D
Acq: 16 Mar 2016 20:37

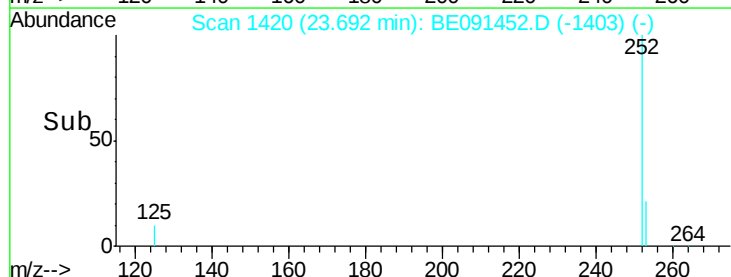
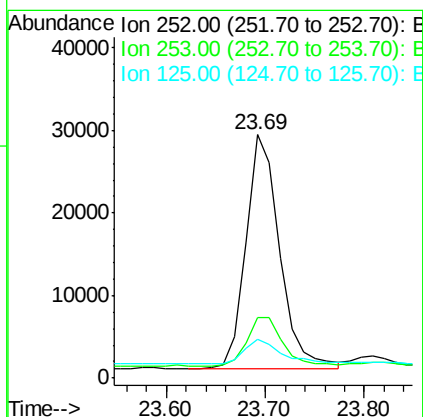
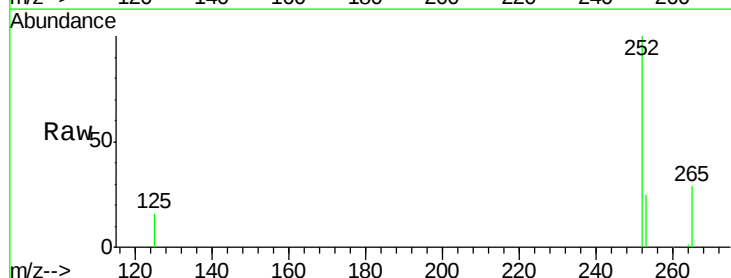
Instrument :
BNA_E
ClientSampleId :

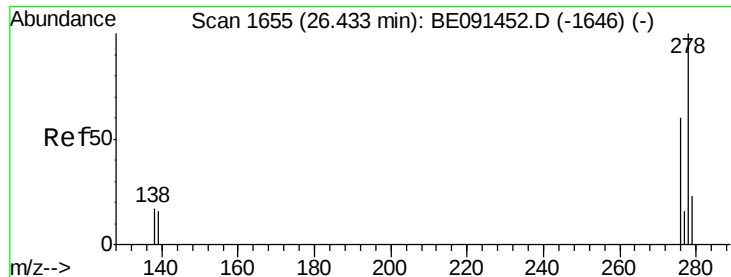
Tot Ion:252 Resp: 72750
Ion Ratio Lower Upper
252 100
253 25.2 20.2 30.2
125 13.3 10.6 16.0



#28
Benzo(a)pyrene
Concen: 0.43 ng
RT: 23.69 min Scan# 1420
Delta R.T. 0.00 min
Lab File: BE091452.D
Acq: 16 Mar 2016 20:37

Tgt Ion:252 Resp: 66367
Ion Ratio Lower Upper
252 100
253 25.0 20.0 30.0
125 15.9 12.7 19.1





#29

Dibenzo(a,h)anthracene

Concen: 0.43 ng

RT: 26.43 min Scan# 1655

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

Instrument :

BNA_E

ClientSampleId :

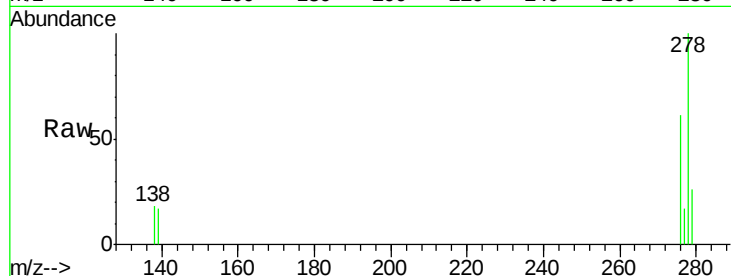
Tot Ion:278 Resp: 64609

Ion Ratio Lower Upper

278 100

139 16.6 13.3 19.9

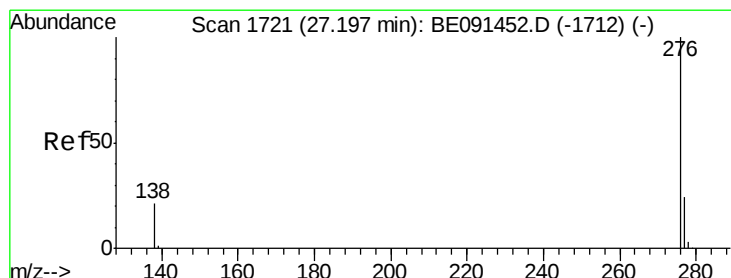
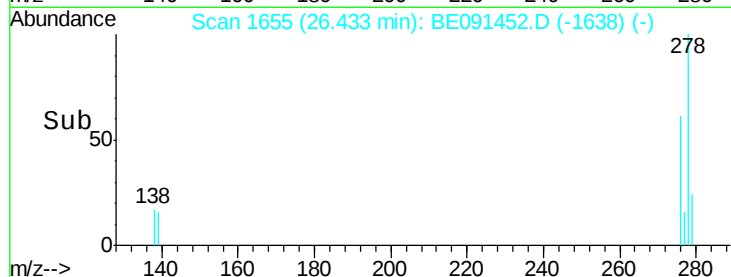
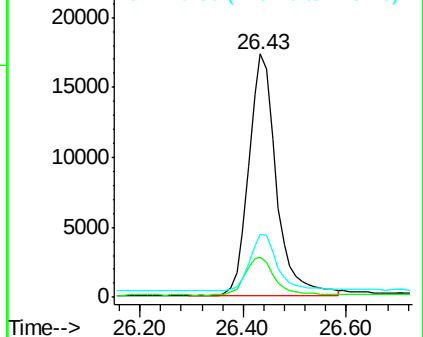
279 26.1 20.9 31.3



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: 0.43 ng

RT: 27.20 min Scan# 1721

Delta R.T. 0.00 min

Lab File: BE091452.D

Acq: 16 Mar 2016 20:37

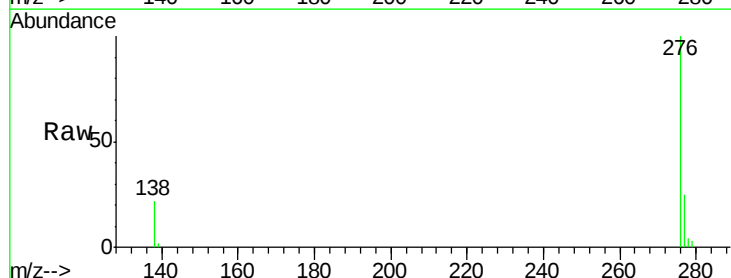
Tgt Ion:276 Resp: 68795

Ion Ratio Lower Upper

276 100

277 24.8 19.8 29.8

138 22.0 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

