

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091424.D
 Acq On : 3 Mar 2016 16:00
 Operator : UM/IZ
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Quant Time: Mar 04 06:20:41 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 04 03:11:46 2016
 Response via : Initial Calibration

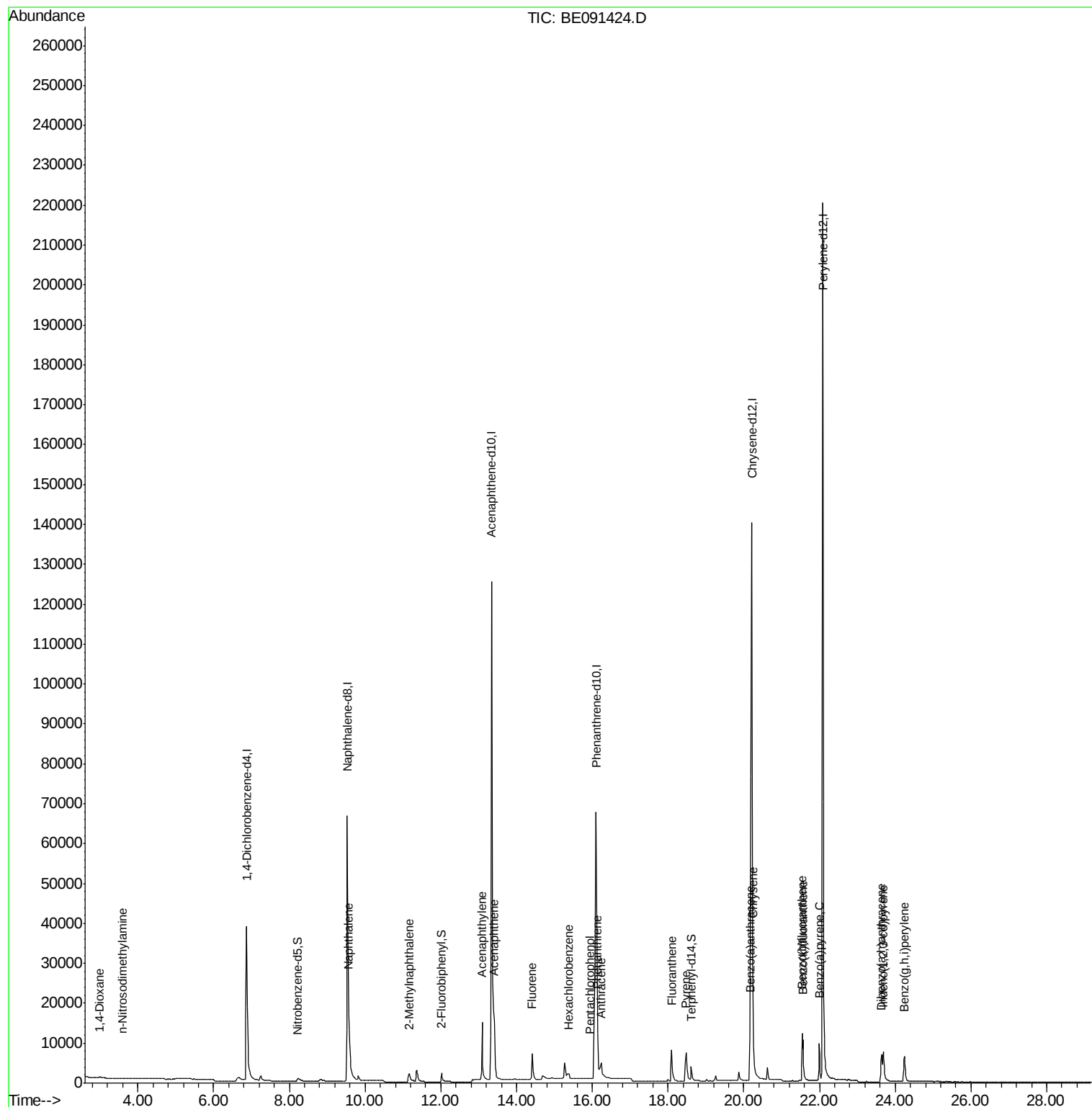
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	29795	5.00	ng	0.00
4) Naphthalene-d8	9.53	136	138871	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	87581	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	152856	5.00	ng	0.00
19) Chrysene-d12	20.21	240	225275	5.00	ng	0.00
25) Perylene-d12	22.09	264	269950	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.21	82	1124	0.15	ng	0.03
9) 2-Fluorobiphenyl	12.01	172	3892	0.17	ng	0.01
21) Terphenyl-d14	18.61	244	6508	0.19	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.98	88	480	0.10	ng	93
3) n-Nitrosodimethylamine	3.59	42	279	0.68	ng	# 1
6) Naphthalene	9.57	128	6360	0.21	ng	97
7) 2-Methylnaphthalene	11.17	142	3447m	0.19	ng	
10) Acenaphthylene	13.09	152	25811	0.22	ng	99
11) Acenaphthene	13.41	154	5049	0.23	ng	# 100
12) Fluorene	14.41	166	6229	0.22	ng	98
14) Hexachlorobenzene	15.38	284	2005	0.29	ng	# 100
15) Pentachlorophenol	15.93	266	107m	0.16	ng	
16) Phenanthrene	16.13	178	10333	0.27	ng	99
17) Anthracene	16.24	178	9329m	0.27	ng	
18) Fluoranthene	18.09	202	11782	0.30	ng	98
20) Pyrene	18.48	202	11872	0.23	ng	99
22) Benzo(a)anthracene	20.17	228	13719	0.30	ng	97
23) Chrysene	20.23	228	16866	0.27	ng	99
24) Indeno(1,2,3-cd)pyrene	23.68	276	13239m	0.29	ng	
26) Benzo(b)fluoranthene	21.54	252	12339m	0.22	ng	
27) Benzo(k)fluoranthene	21.57	252	16057m	0.24	ng	
28) Benzo(a)pyrene	21.99	252	12152	0.24	ng	98
29) Dibenzo(a,h)anthracene	23.64	278	11434	0.27	ng	96
30) Benzo(g,h,i)perylene	24.24	276	12703	0.23	ng	99

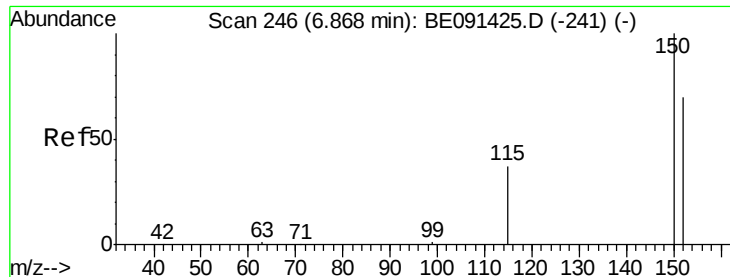
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 246

Delta R.T. -0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

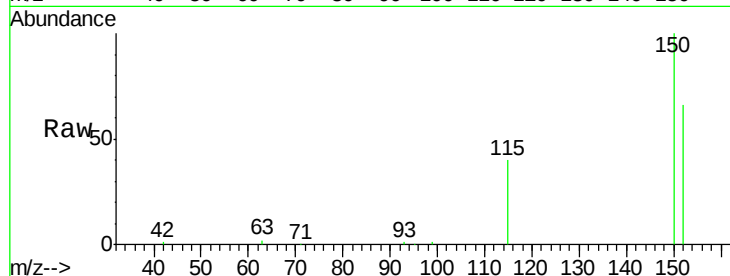
Tgt Ion:152 Resp: 29795

Ion Ratio Lower Upper

152 100

150 152.1 115.0 172.4

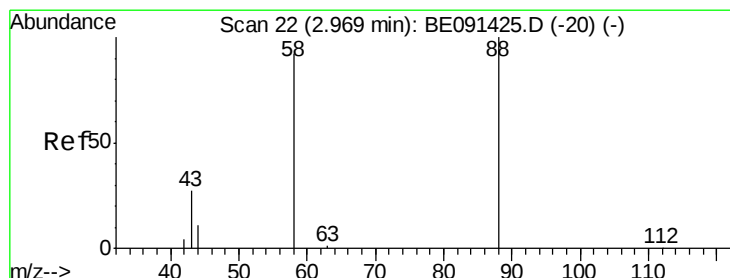
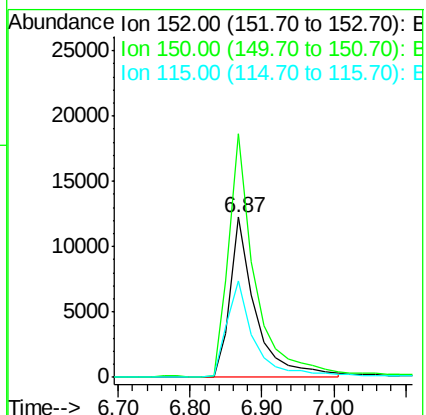
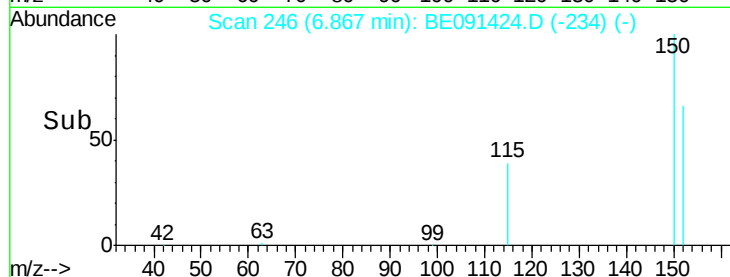
115 60.3 42.2 63.4



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: 0.10 ng

RT: 2.98 min Scan# 23

Delta R.T. 0.02 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

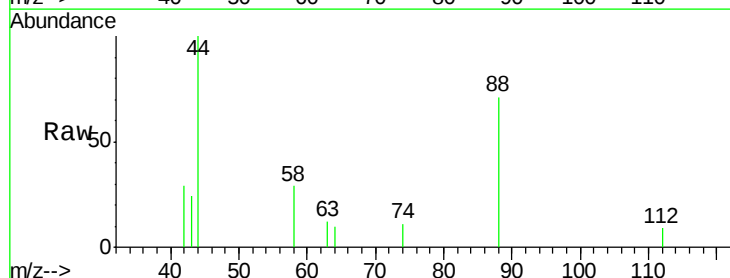
Tgt Ion: 88 Resp: 480

Ion Ratio Lower Upper

88 100

58 111.3 96.9 145.3

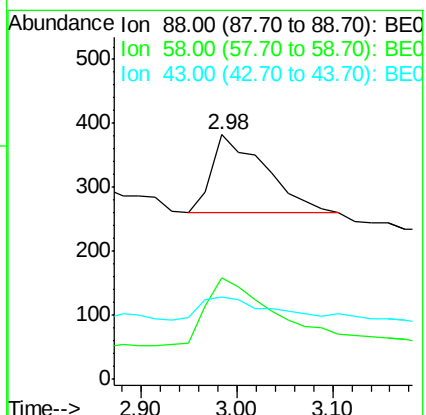
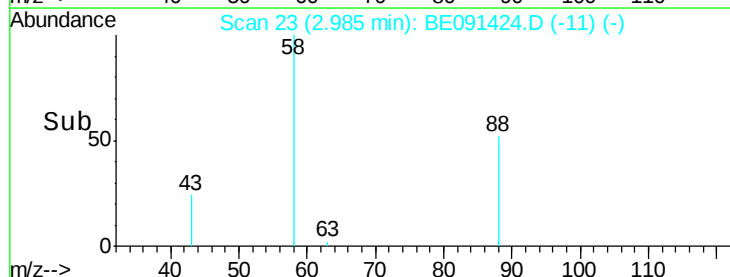
43 38.3 29.3 43.9

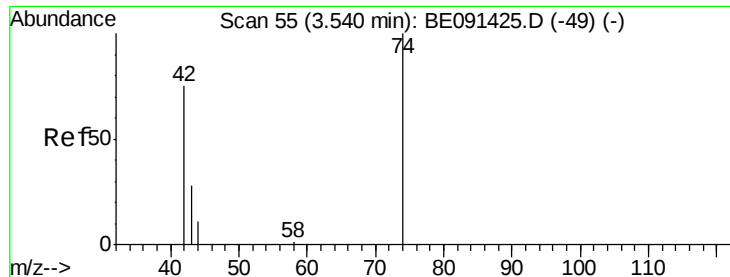


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.68 ng

RT: 3.59 min Scan# 58

Delta R.T. 0.05 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

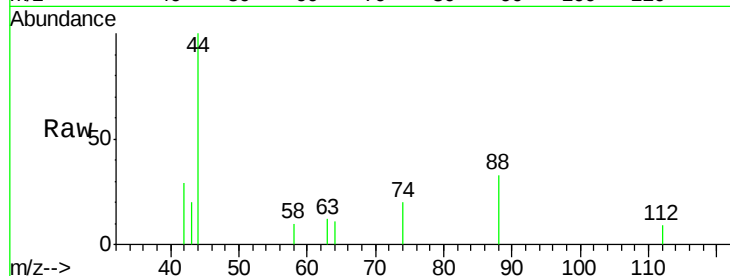
Tgt Ion: 42 Resp: 279

Ion Ratio Lower Upper

42 100

74 0.0 96.6 144.8#

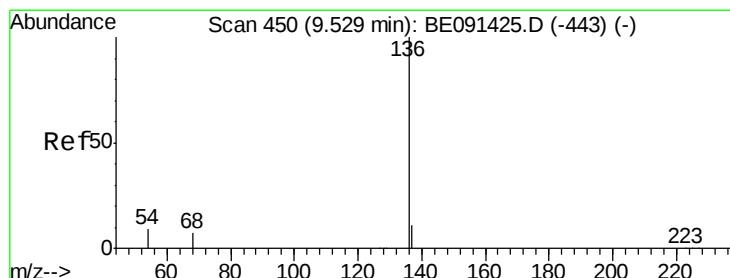
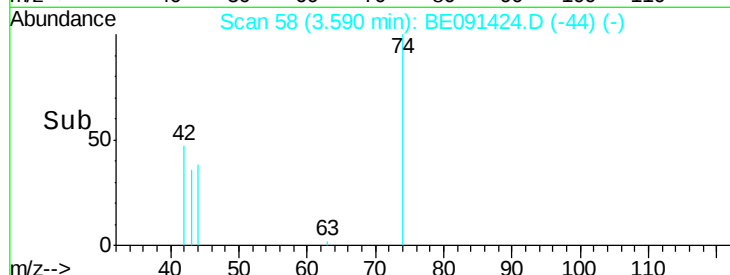
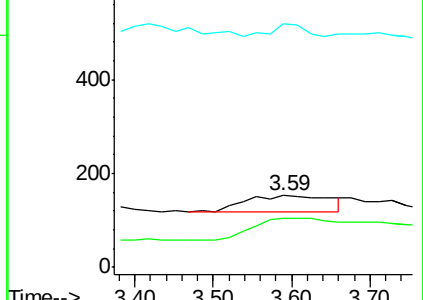
44 27.2 0.0 0.0#



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: 9.53 min Scan# 450

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

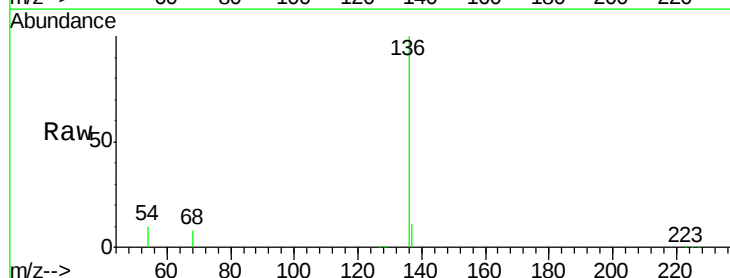
Tgt Ion: 136 Resp: 138871

Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

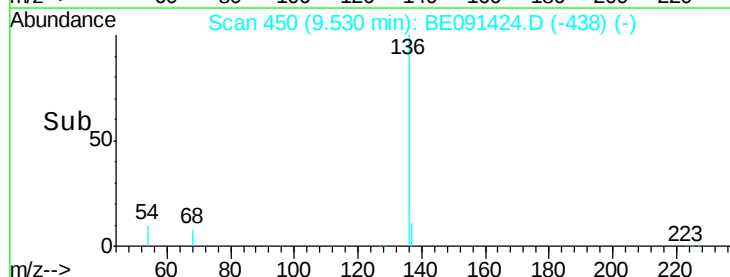
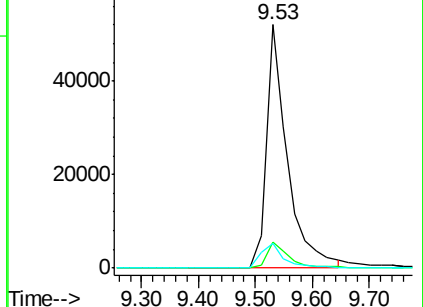
54 10.0 6.9 10.3

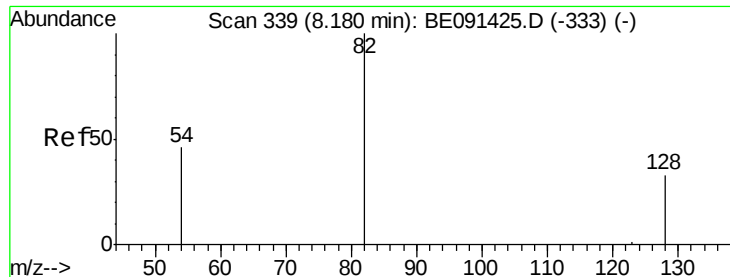


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 0.15 ng

RT: 8.21 min Scan# 342

Delta R.T. 0.03 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

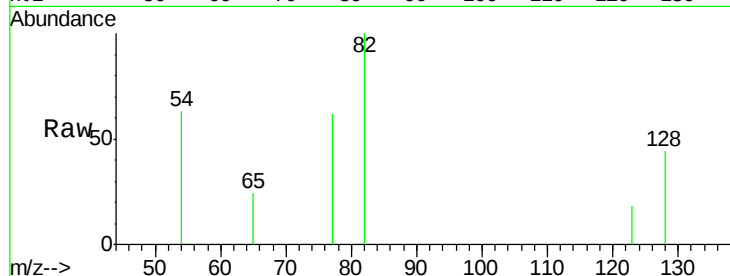
Tgt Ion: 82 Resp: 1124

Ion Ratio Lower Upper

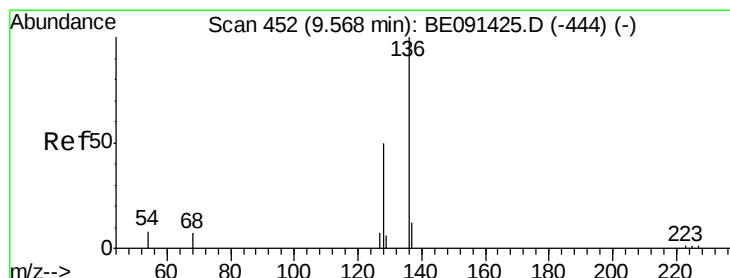
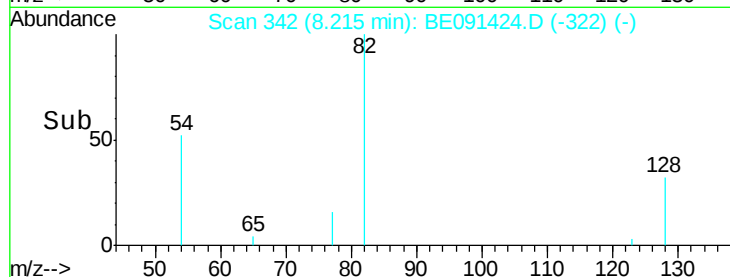
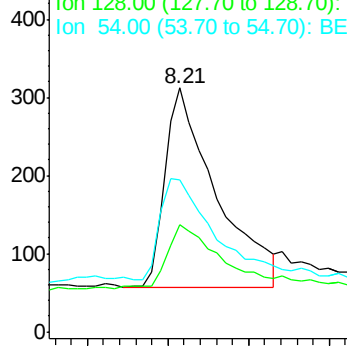
82 100

128 43.9 30.0 45.0

54 62.5 41.5 62.3#



Abundance Ion 82.00 (81.70 to 82.70): BE091424.D (-342) (-)



#6

Naphthalene

Concen: 0.21 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

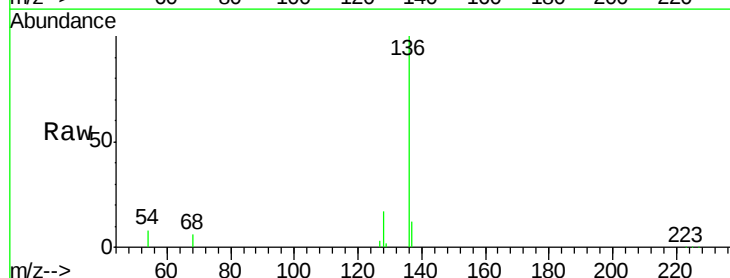
Tgt Ion: 128 Resp: 6360

Ion Ratio Lower Upper

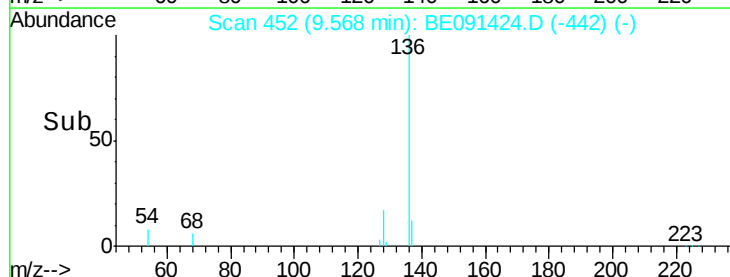
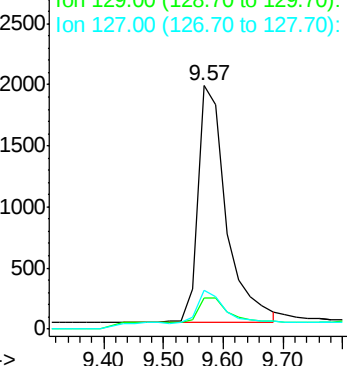
128 100

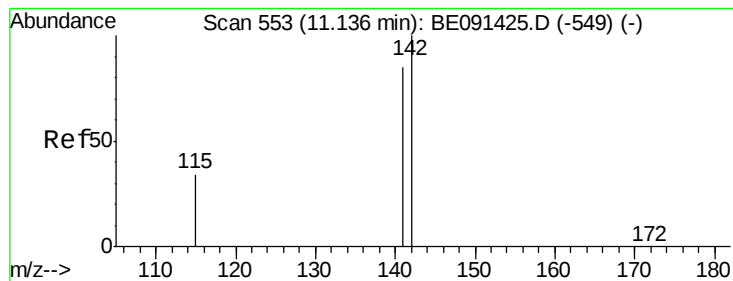
129 12.7 9.5 14.3

127 15.9 11.4 17.0



Abundance Ion 128.00 (127.70 to 128.70): BE091424.D (-452) (-)





#7

2-Methylnaphthalene

Concen: 0.19 ng m

RT: 11.17 min Scan# 556

Delta R.T. 0.04 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

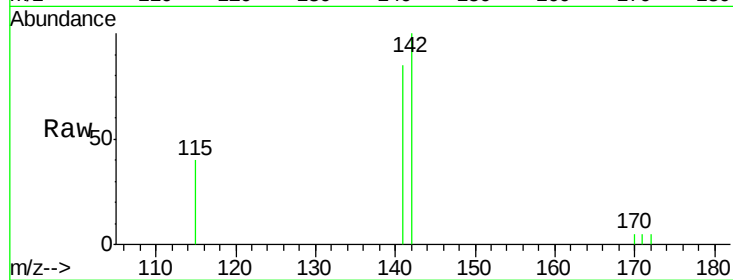
Tgt Ion:142 Resp: 3447

Ion Ratio Lower Upper

142 100

141 84.8 68.3 102.5

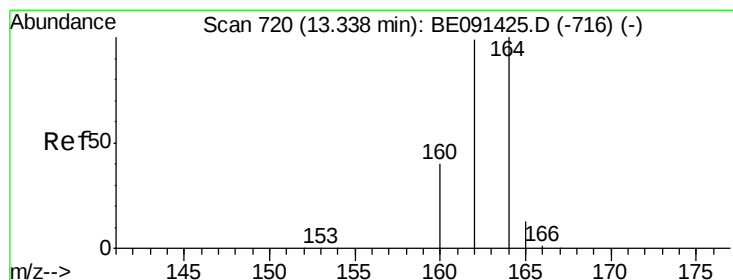
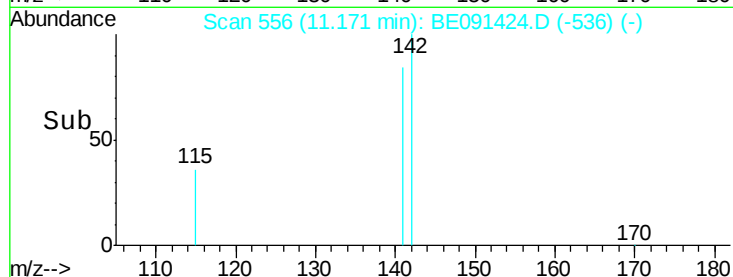
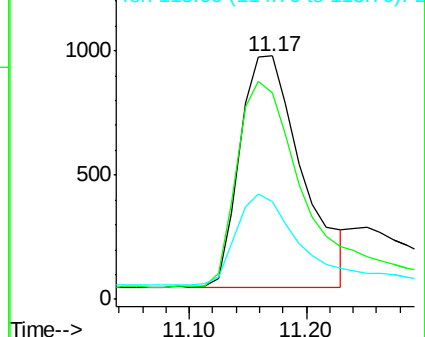
115 40.2 28.9 43.3



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: 13.34 min Scan# 720

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

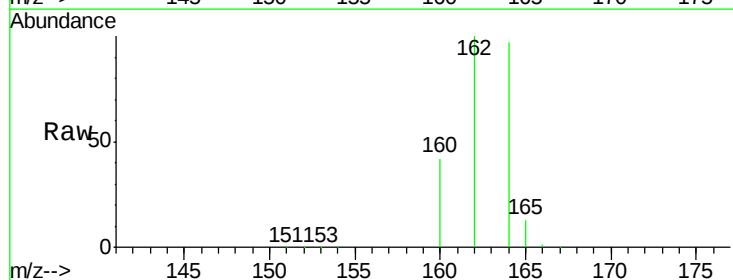
Tgt Ion:164 Resp: 87581

Ion Ratio Lower Upper

164 100

162 102.7 79.1 118.7

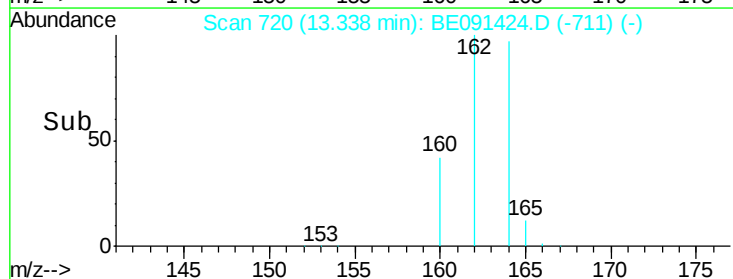
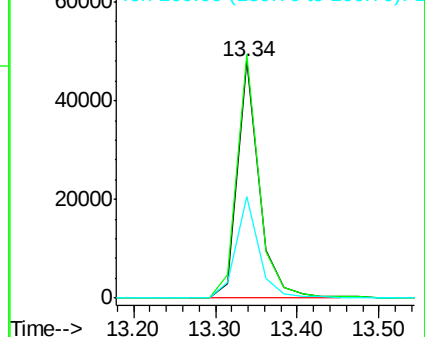
160 43.1 32.4 48.6

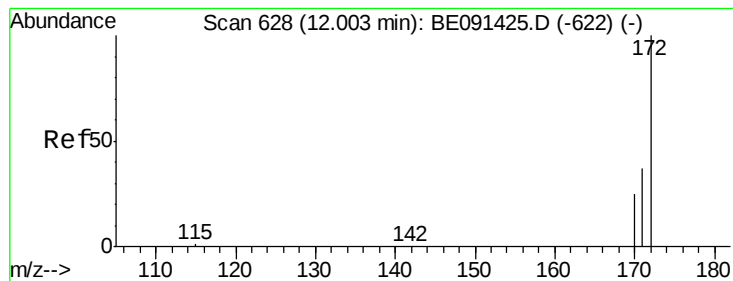


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.17 ng

RT: 12.01 min Scan# 629

Delta R.T. 0.01 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

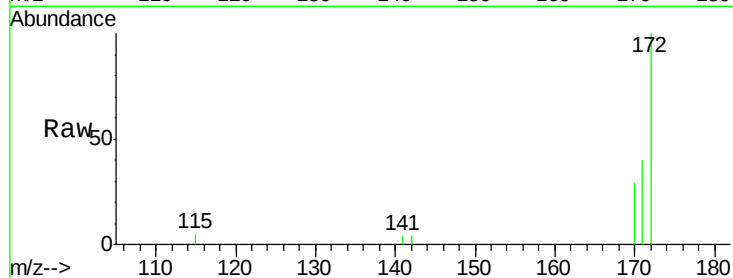
Tgt Ion:172 Resp: 3892

Ion Ratio Lower Upper

172 100

171 39.5 30.2 45.4

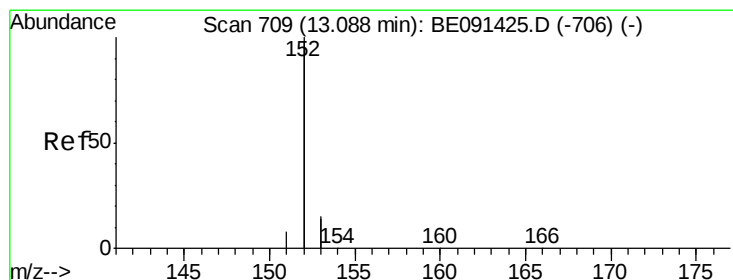
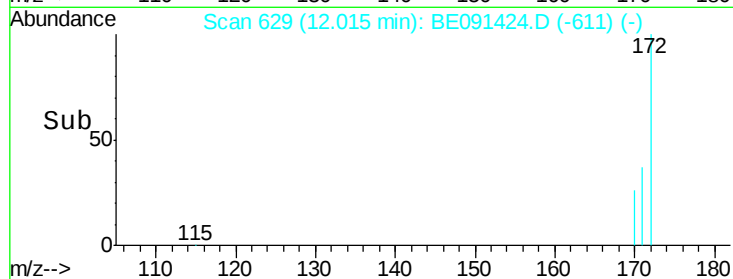
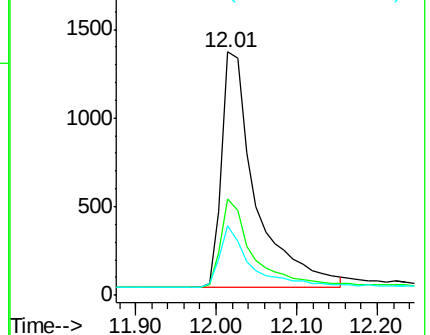
170 28.7 20.9 31.3



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: 0.22 ng

RT: 13.09 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

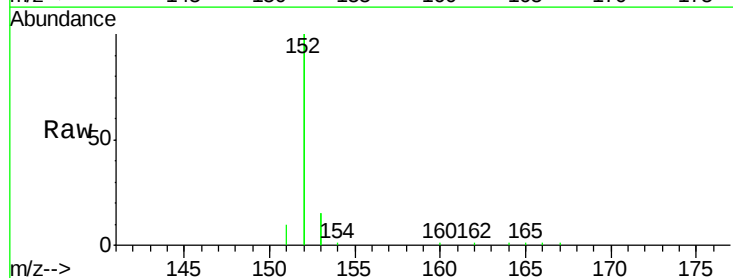
Tgt Ion:152 Resp: 25811

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

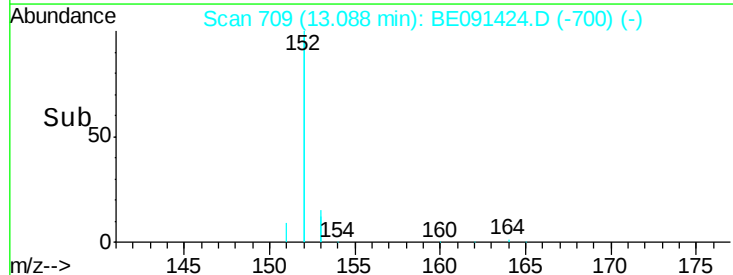
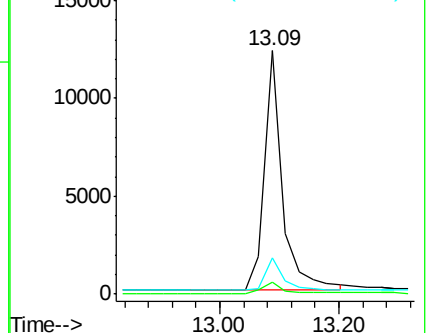
153 13.4 10.5 15.7

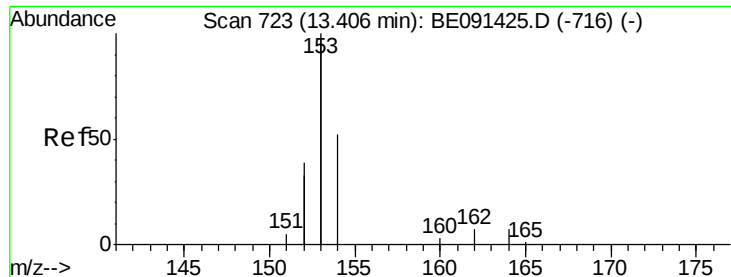


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.23 ng

RT: 13.41 min Scan# 723

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

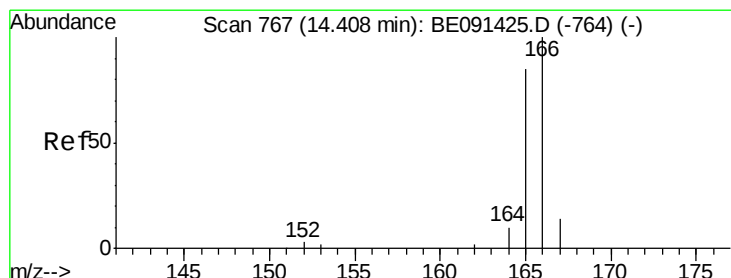
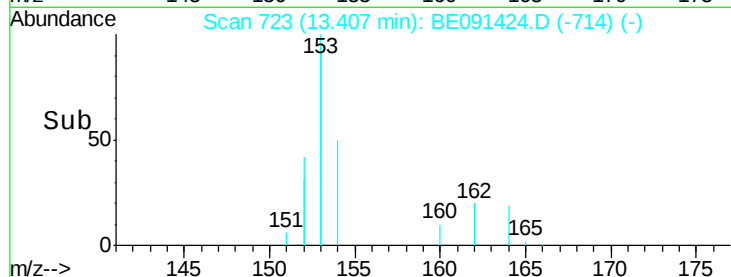
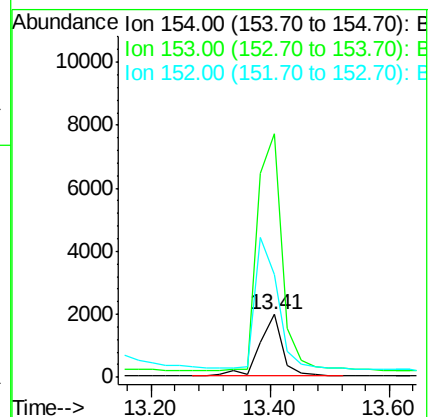
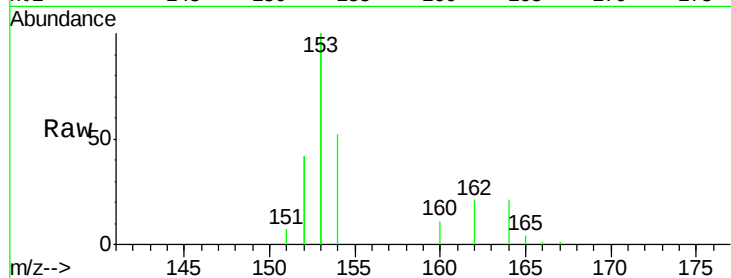
Tgt Ion:154 Resp: 5049

Ion Ratio Lower Upper

154 100

153 429.5 0.0 0.0#

152 0.0 0.0 0.0



#12

Fluorene

Concen: 0.22 ng

RT: 14.41 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

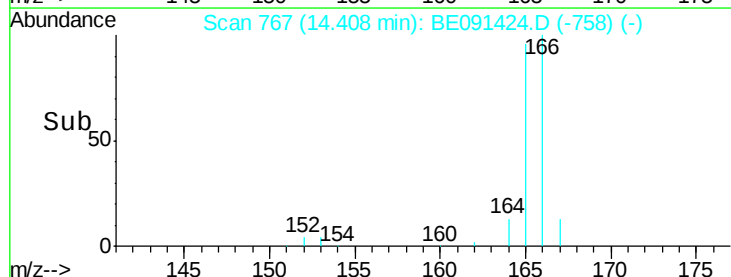
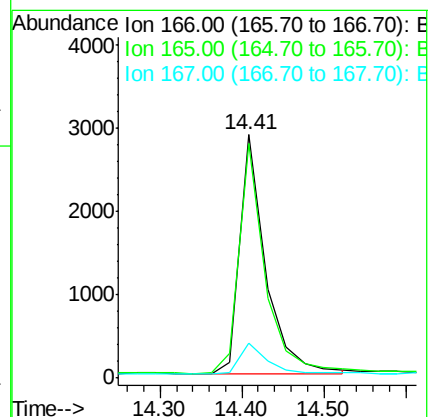
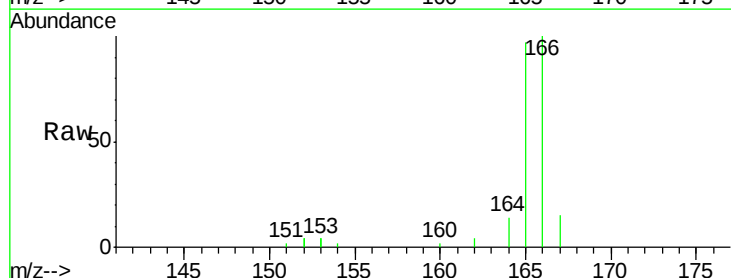
Tgt Ion:166 Resp: 6229

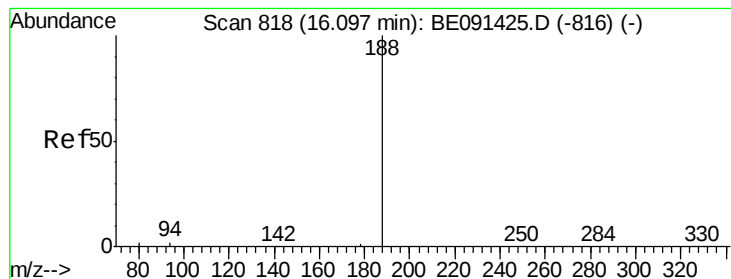
Ion Ratio Lower Upper

166 100

165 96.9 79.4 119.2

167 13.2 10.7 16.1





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.10 min Scan# 818

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

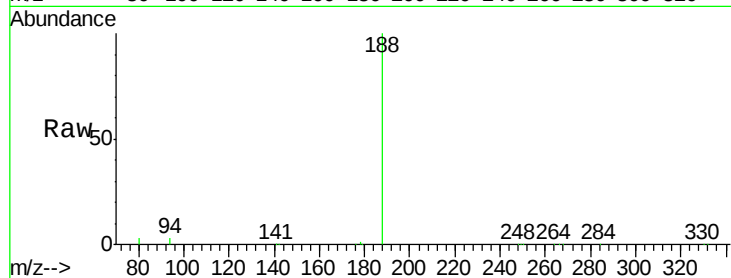
Tgt Ion:188 Resp: 152856

Ion Ratio Lower Upper

188 100

94 3.1 2.1 3.1#

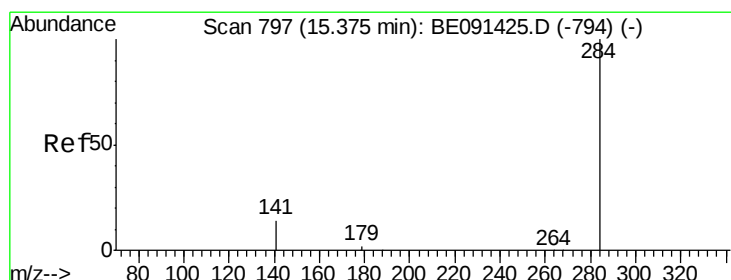
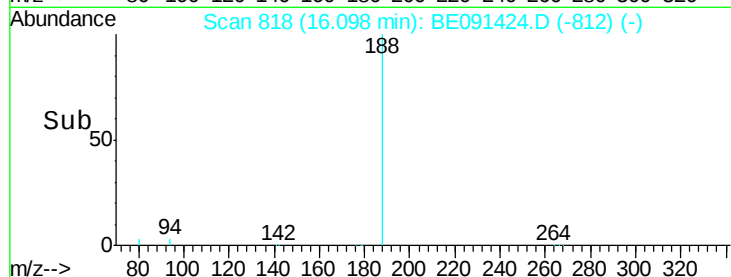
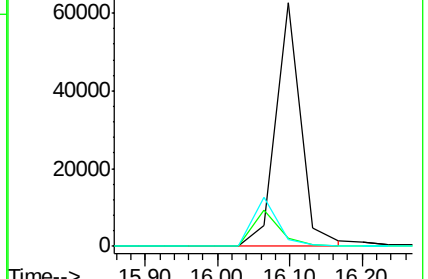
80 3.0 1.9 2.9#



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: 0.29 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

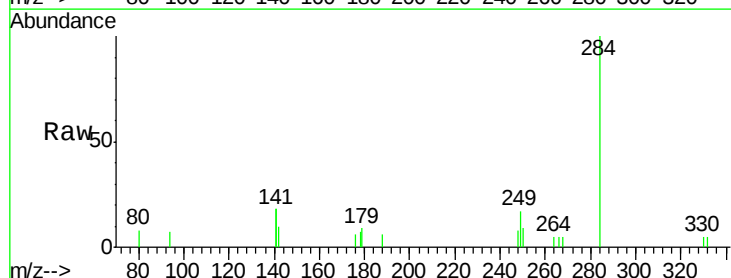
Tgt Ion:284 Resp: 2005

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

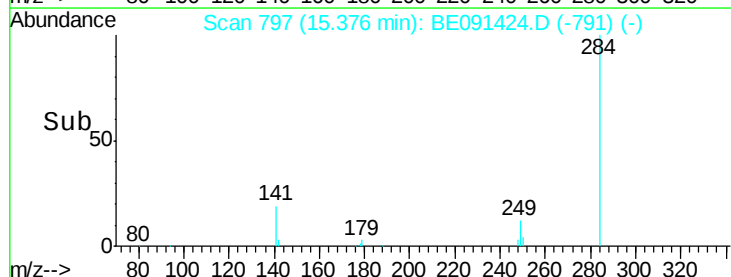
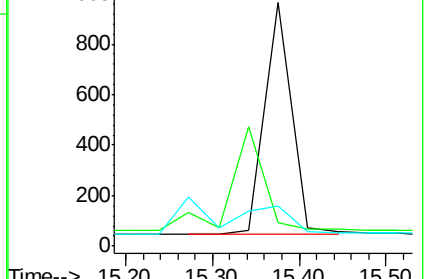
249 0.0 0.0 0.0

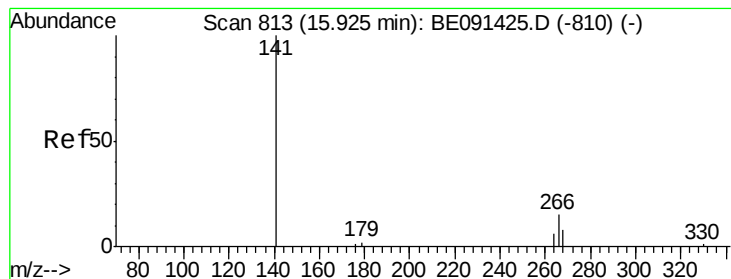


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 0.16 ng m

RT: 15.93 min Scan# 813

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

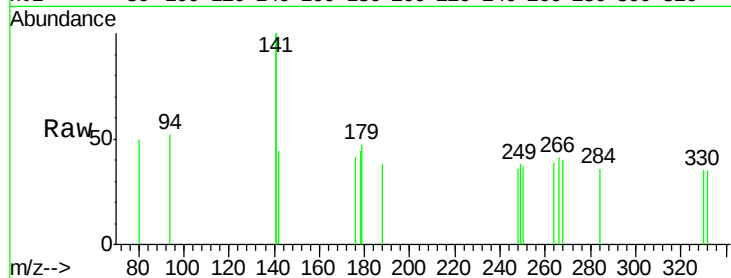
Tgt Ion:266 Resp: 107

Ion Ratio Lower Upper

266 100

268 96.4 73.0 109.6

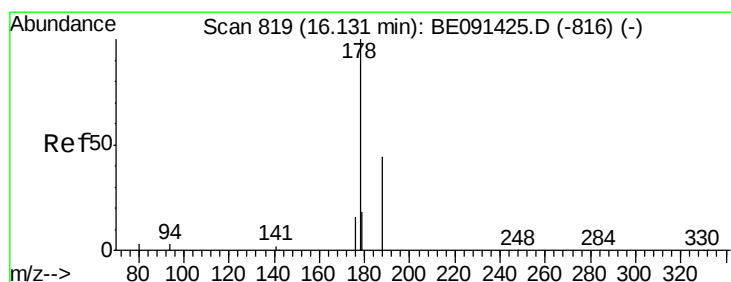
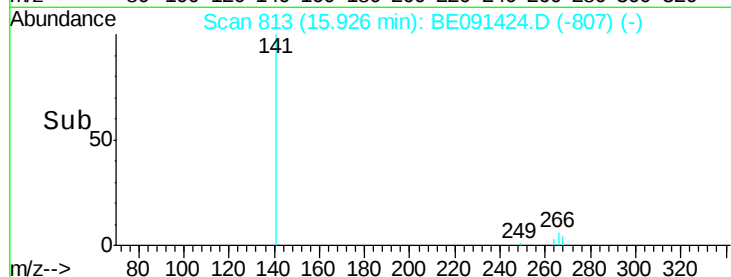
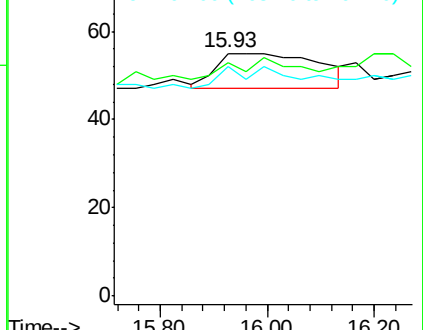
264 94.5 66.1 99.1



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: 0.27 ng

RT: 16.13 min Scan# 819

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

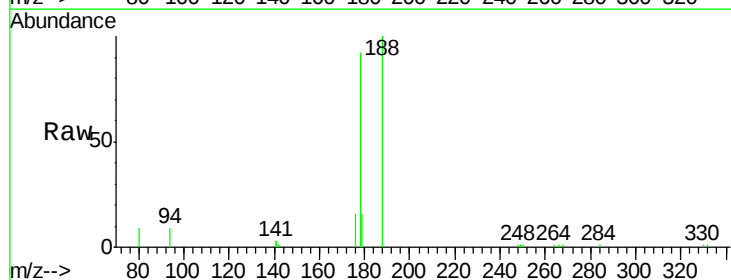
Tgt Ion:178 Resp: 10333

Ion Ratio Lower Upper

178 100

176 17.6 13.8 20.8

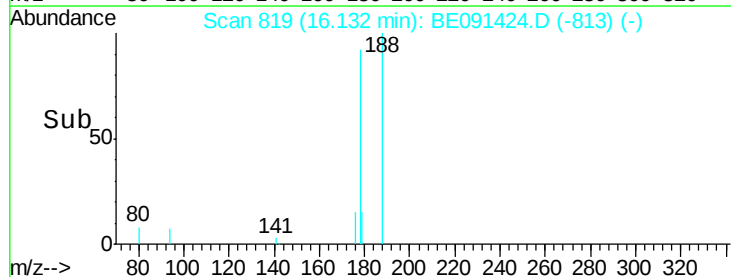
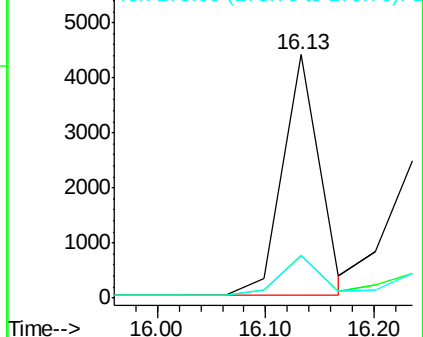
179 17.2 14.2 21.4

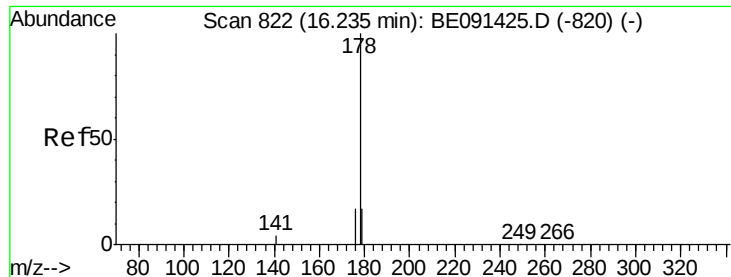


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.27 ng m

RT: 16.24 min Scan# 822

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

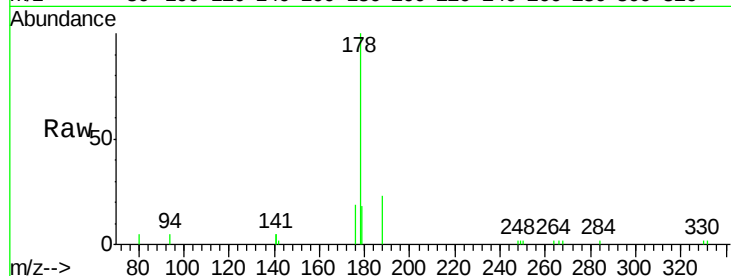
Tgt Ion:178 Resp: 9329

Ion Ratio Lower Upper

178 100

176 0.0 23.5 35.3#

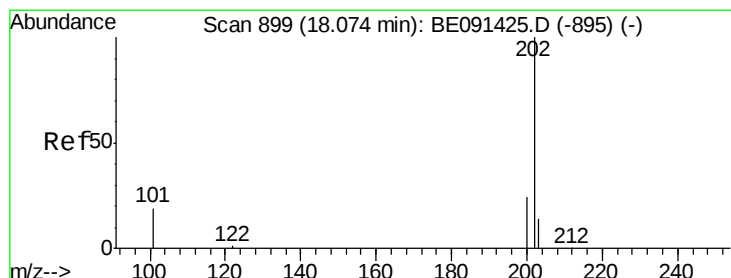
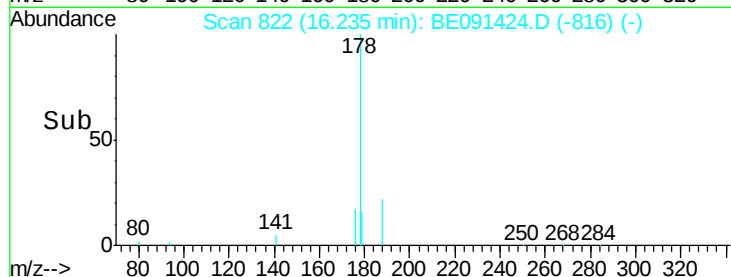
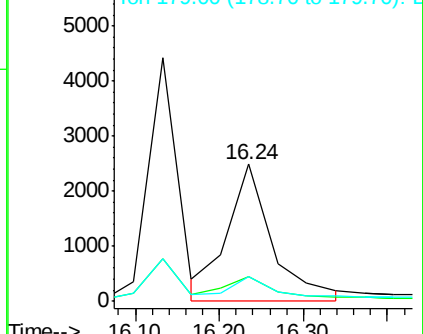
179 9.1 14.3 21.5#



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: 0.30 ng

RT: 18.09 min Scan# 900

Delta R.T. 0.02 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

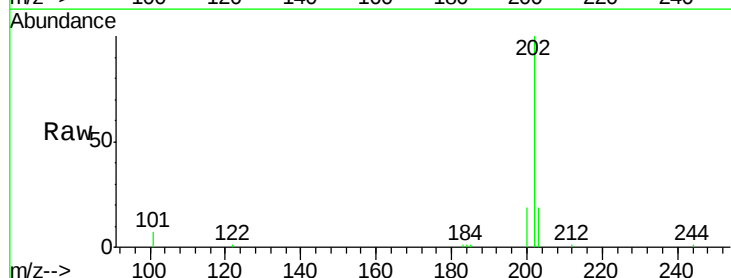
Tgt Ion:202 Resp: 11782

Ion Ratio Lower Upper

202 100

101 12.2 11.0 16.4

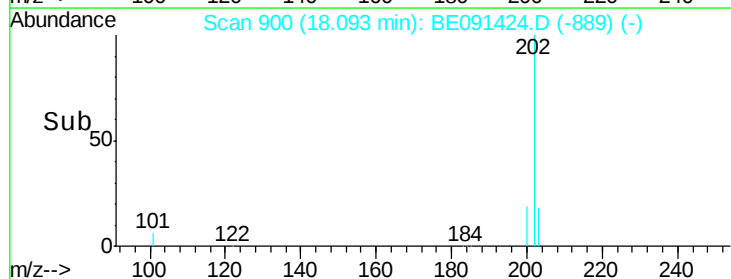
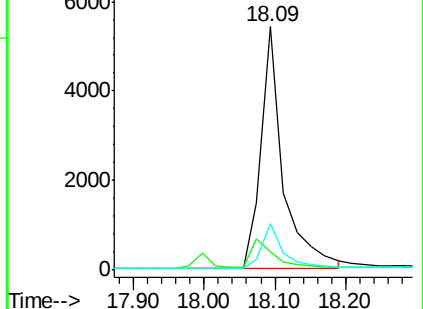
203 17.5 13.7 20.5

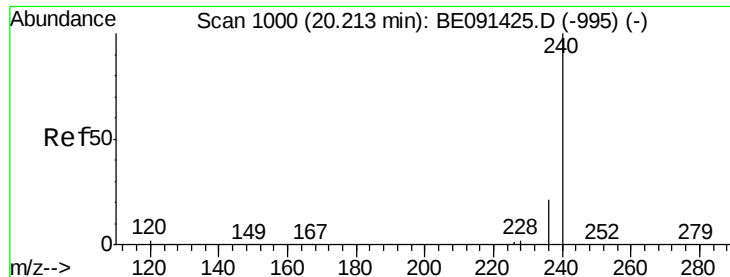


Abundance Ion 202.00 (201.70 to 202.70): E

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: 20.21 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

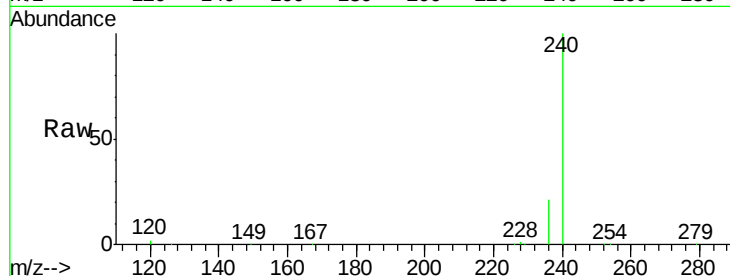
Tgt Ion:240 Resp: 225275

Ion Ratio Lower Upper

240 100

120 1.9 1.4 2.0

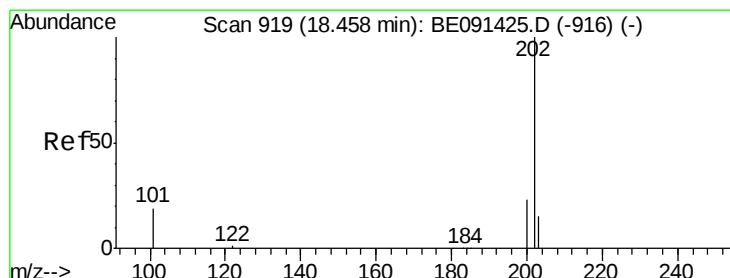
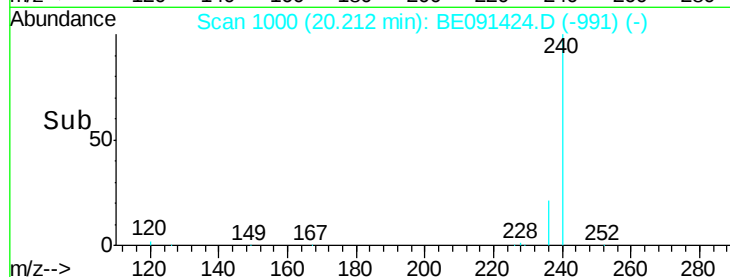
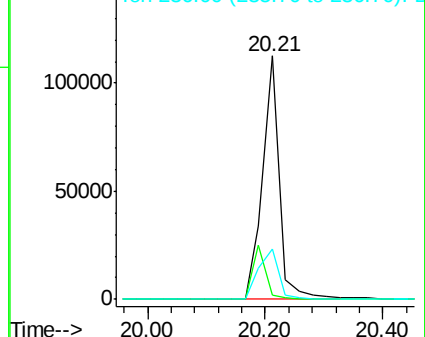
236 20.9 16.7 25.1



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: 0.23 ng

RT: 18.48 min Scan# 920

Delta R.T. 0.02 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

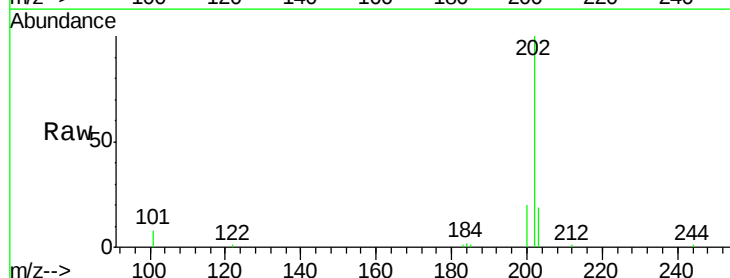
Tgt Ion:202 Resp: 11872

Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

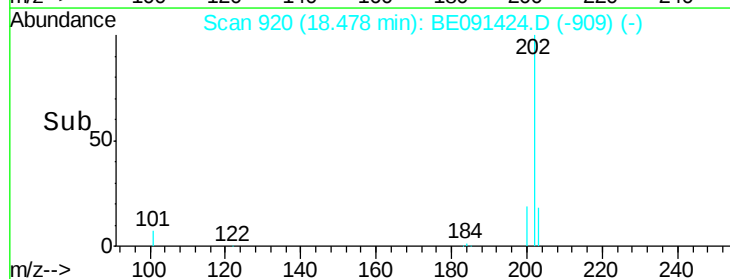
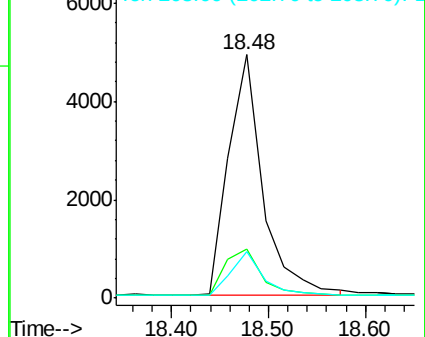
203 17.3 13.8 20.6

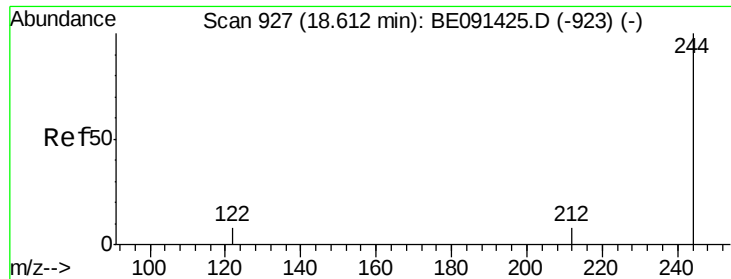


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

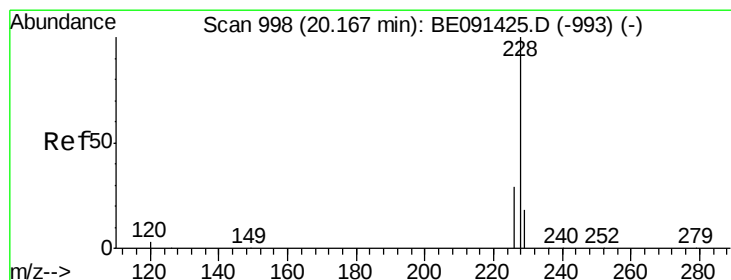
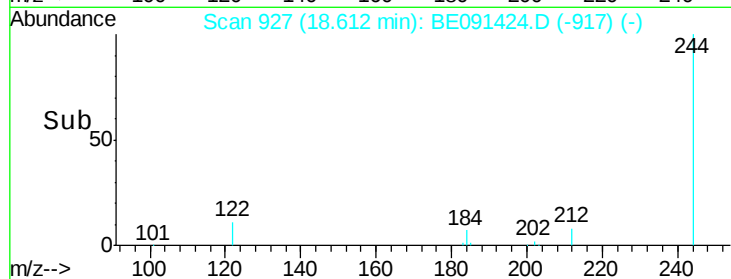
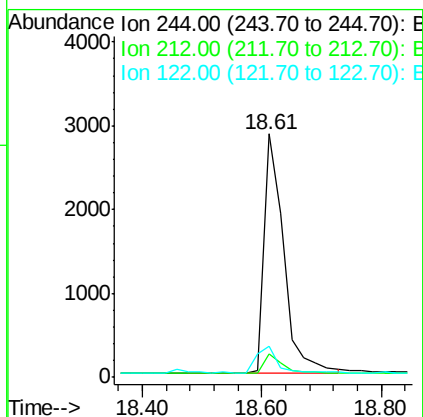
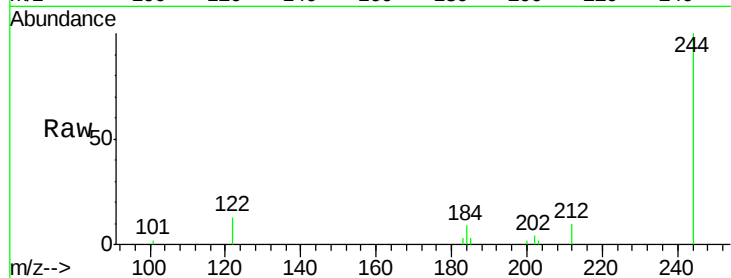




#21
 Terphenyl-d14
 Concen: 0.19 ng
 RT: 18.61 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: BE091424.D
 Acq: 3 Mar 2016 16:00

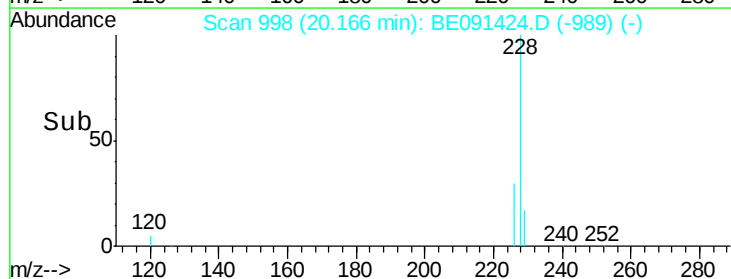
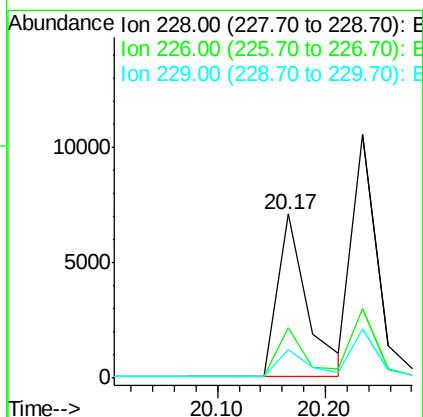
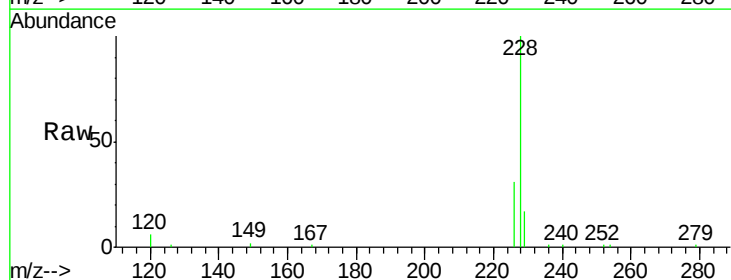
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

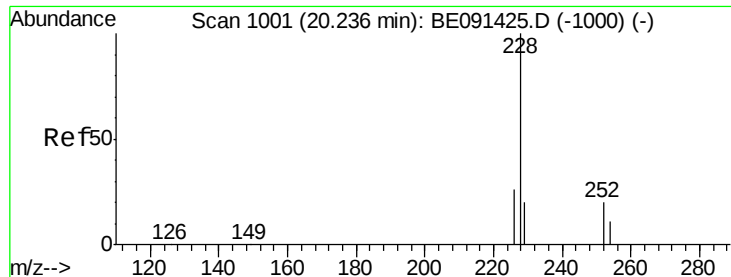
Tgt Ion:244 Resp: 6508
 Ion Ratio Lower Upper
 244 100
 212 9.9 7.0 10.6
 122 12.8 6.8 10.2#



#22
 Benzo(a)anthracene
 Concen: 0.30 ng
 RT: 20.17 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: BE091424.D
 Acq: 3 Mar 2016 16:00

Tgt Ion:228 Resp: 13719
 Ion Ratio Lower Upper
 228 100
 226 30.5 23.1 34.7
 229 17.3 14.5 21.7

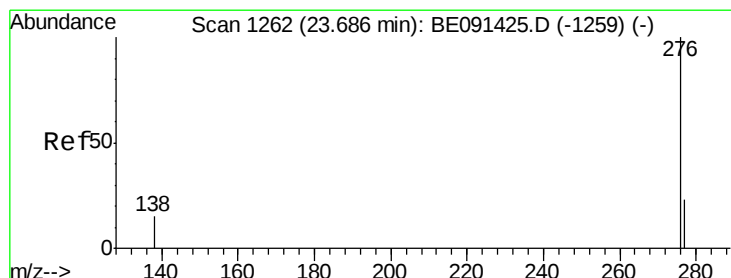
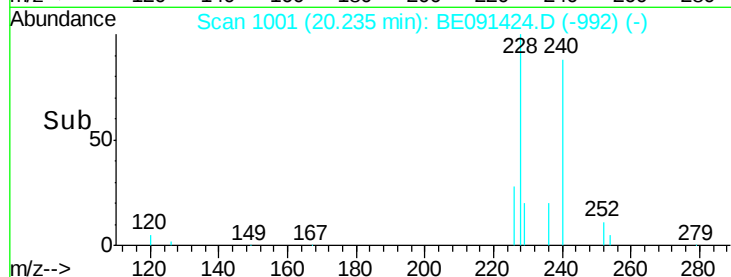
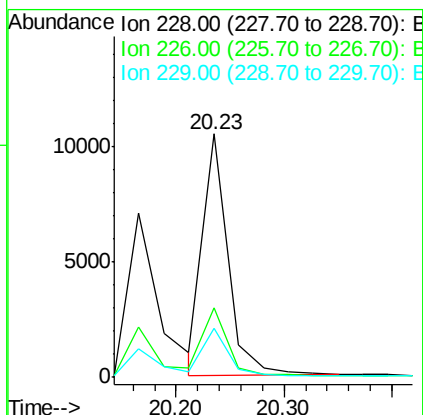
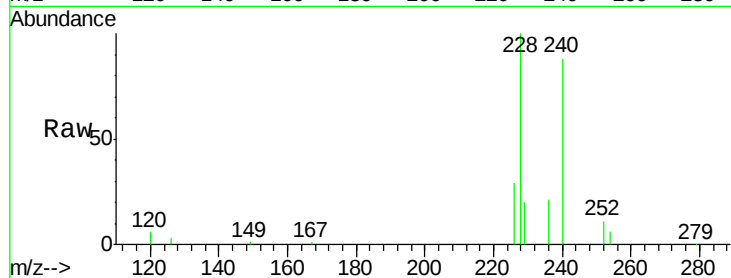




#23
Chrysene
Concen: 0.27 ng
RT: 20.23 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091424.D
Acq: 3 Mar 2016 16:00

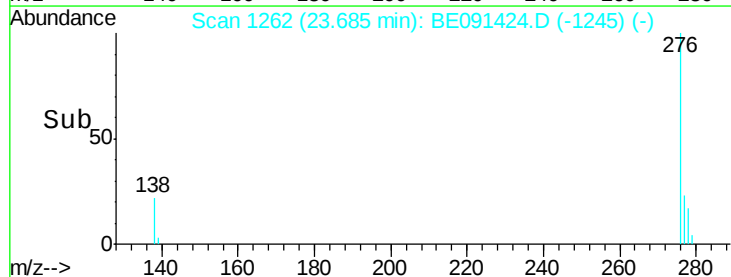
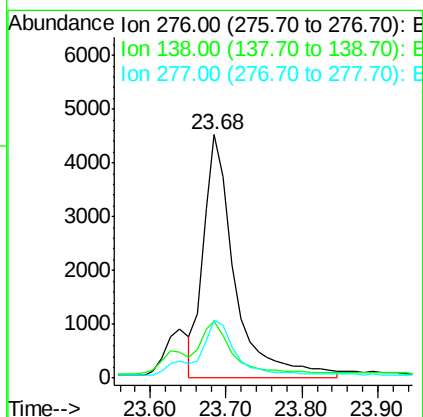
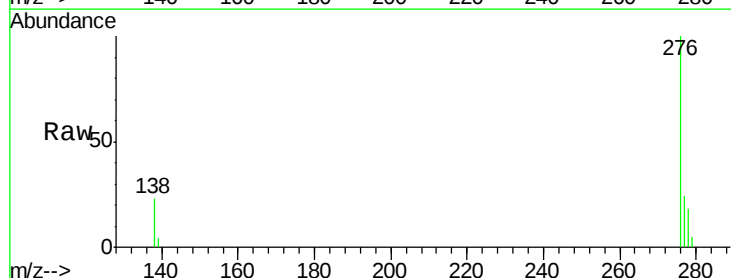
Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

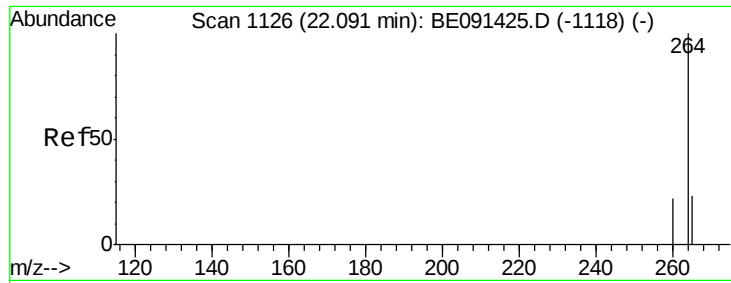
Tgt Ion: 228 Resp: 16866
Ion Ratio Lower Upper
228 100
226 28.6 22.0 33.0
229 20.1 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.29 ng m
RT: 23.68 min Scan# 1262
Delta R.T. -0.00 min
Lab File: BE091424.D
Acq: 3 Mar 2016 16:00

Tgt Ion: 276 Resp: 13239
Ion Ratio Lower Upper
276 100
138 29.4 15.9 23.9#
277 27.1 22.4 33.6



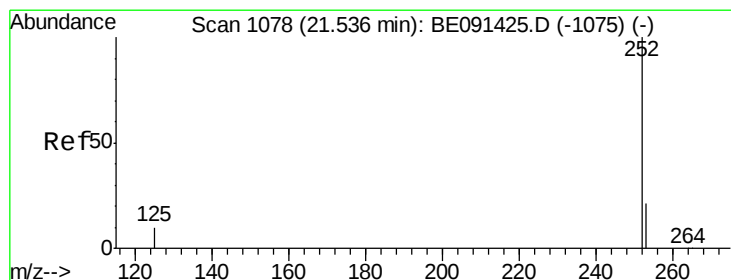
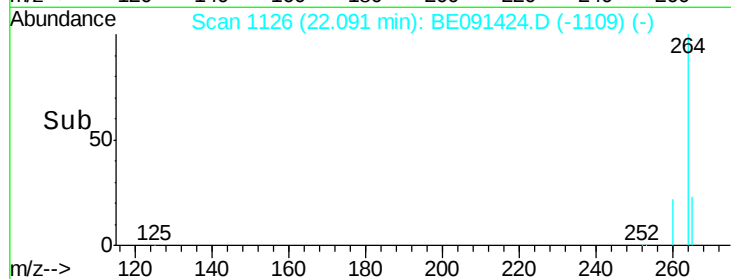
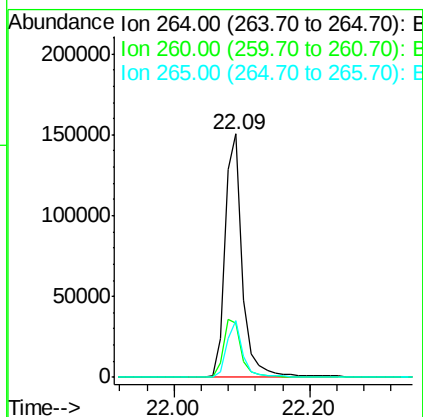
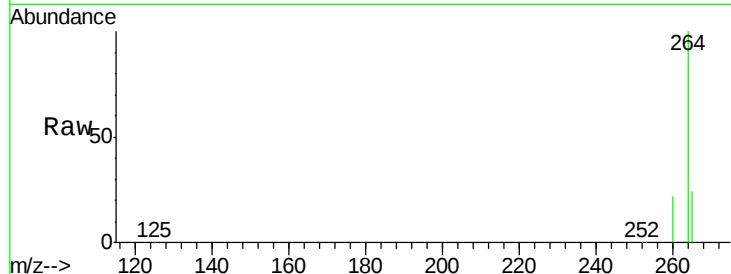


#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 1126
Delta R.T. 0.00 min
Lab File: BE091424.D
Acq: 3 Mar 2016 16:00

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tgt Ion: 264 Resp: 269950

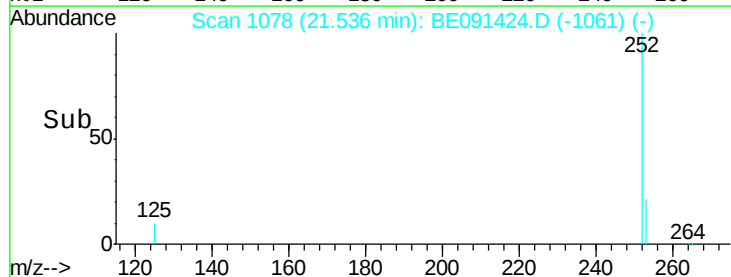
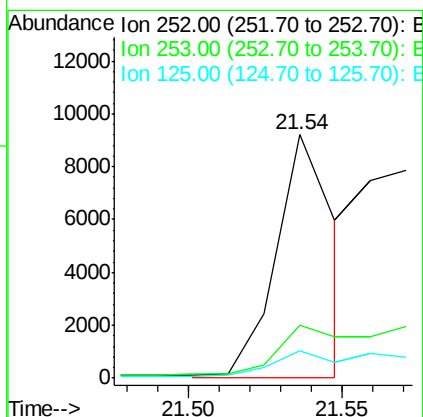
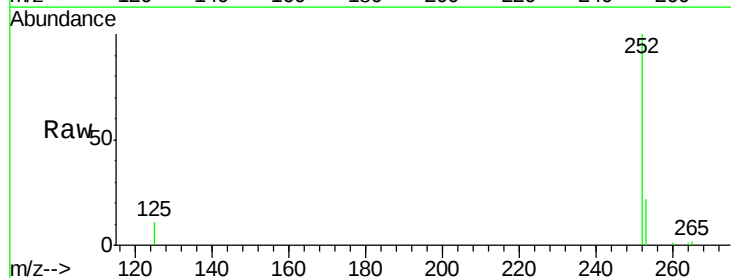
Ion	Ratio	Lower	Upper
264	100		
260	22.2	18.0	27.0
265	23.6	18.2	27.4

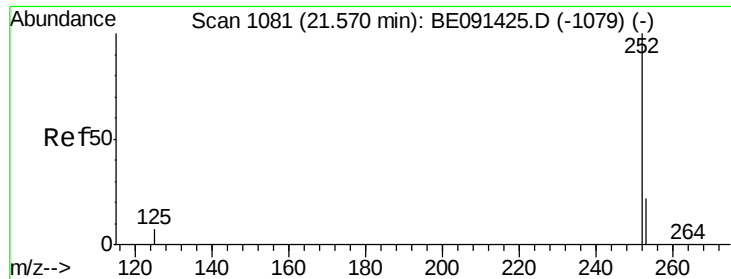


#26
Benzo(b)fluoranthene
Concen: 0.22 ng m
RT: 21.54 min Scan# 1078
Delta R.T. 0.00 min
Lab File: BE091424.D
Acq: 3 Mar 2016 16:00

Tgt Ion: 252 Resp: 12339

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.0	25.4
125	11.0	8.3	12.5





#27

Benzo(k)fluoranthene

Concen: 0.24 ng m

RT: 21.57 min Scan# 1081

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

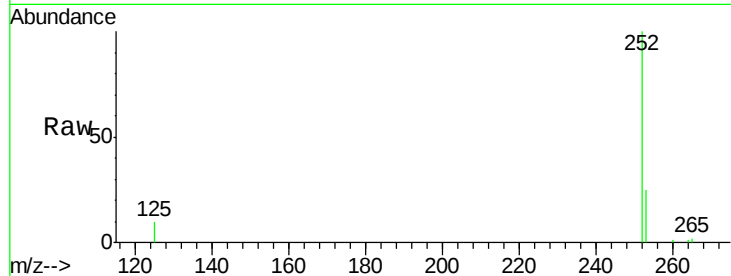
Tgt Ion:252 Resp: 16057

Ion Ratio Lower Upper

252 100

253 24.7 19.5 29.3

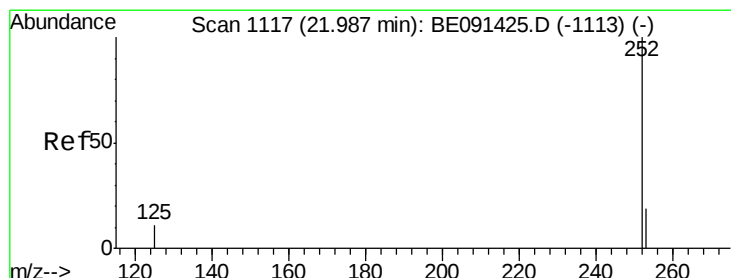
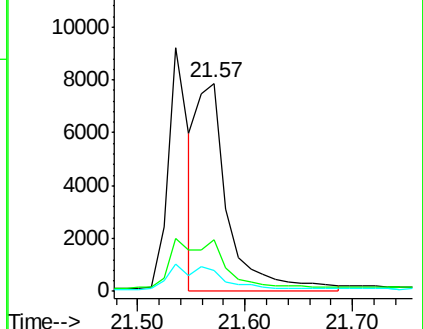
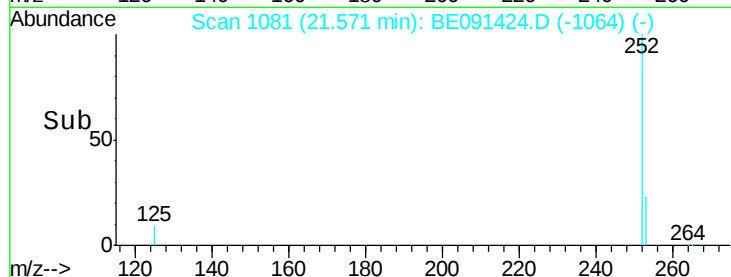
125 10.1 7.3 10.9



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.24 ng

RT: 21.99 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

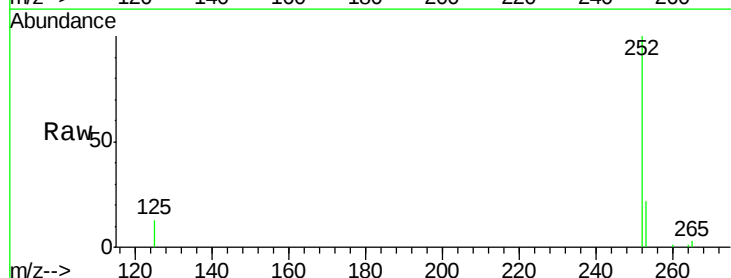
Tgt Ion:252 Resp: 12152

Ion Ratio Lower Upper

252 100

253 21.7 16.2 24.4

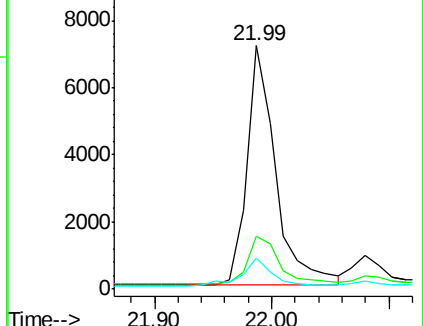
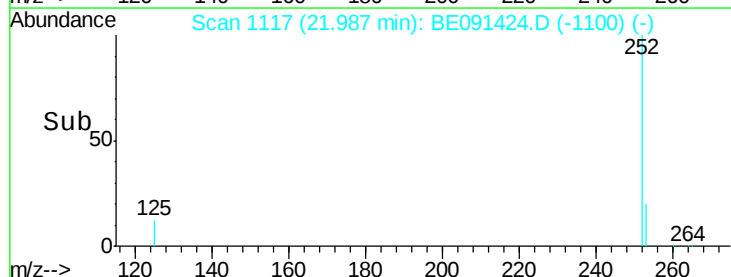
125 12.5 9.6 14.4

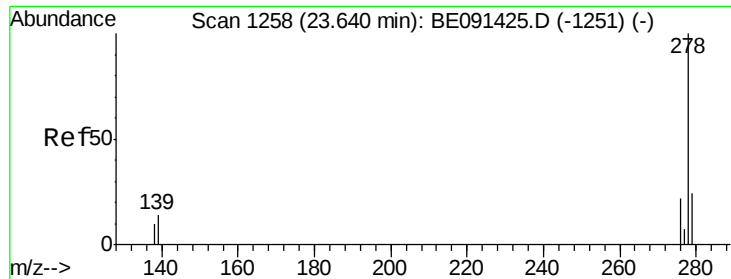


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.27 ng

RT: 23.64 min Scan# 1258

Delta R.T. -0.00 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

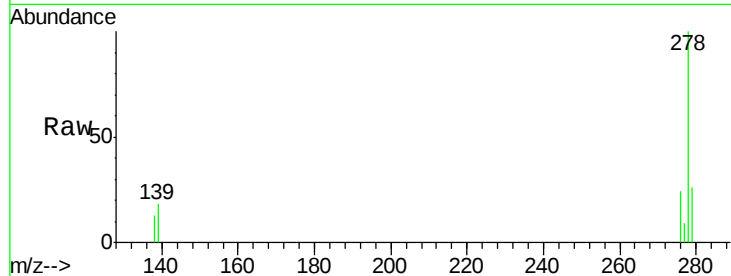
Tgt Ion: 278 Resp: 11434

Ion Ratio Lower Upper

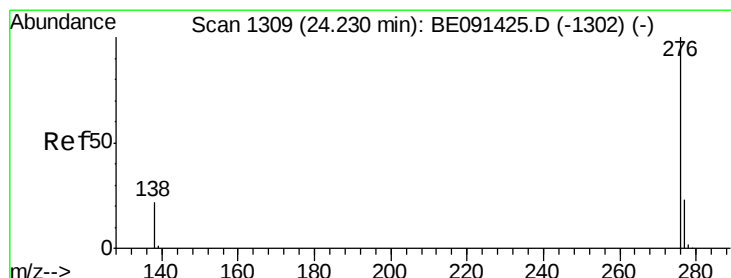
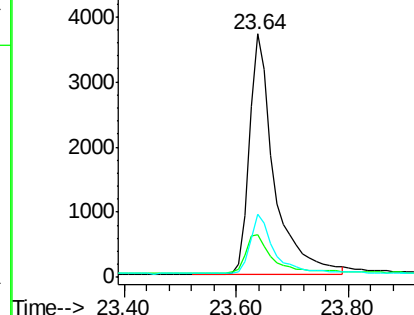
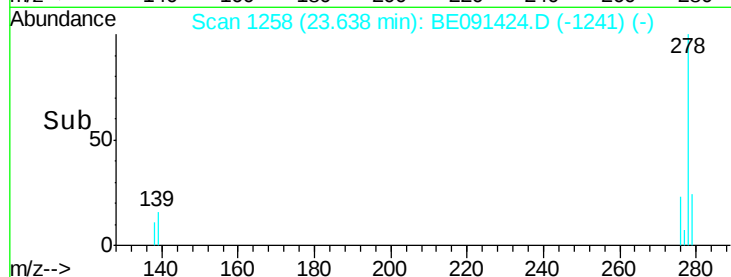
278 100

139 17.7 12.1 18.1

279 25.7 19.4 29.0



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: 0.23 ng

RT: 24.24 min Scan# 1310

Delta R.T. 0.01 min

Lab File: BE091424.D

Acq: 3 Mar 2016 16:00

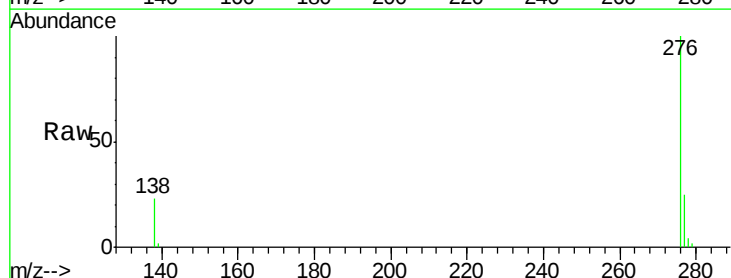
Tgt Ion: 276 Resp: 12703

Ion Ratio Lower Upper

276 100

277 24.8 19.0 28.6

138 22.9 18.2 27.4



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

