

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091445.D
 Acq On : 4 Mar 2016 4:55
 Operator : UM/IZ
 Sample : MDL-03-S
 Misc : 0.16PPM
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 04 07:53:57 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 06:35:39 2016
 Response via : Initial Calibration

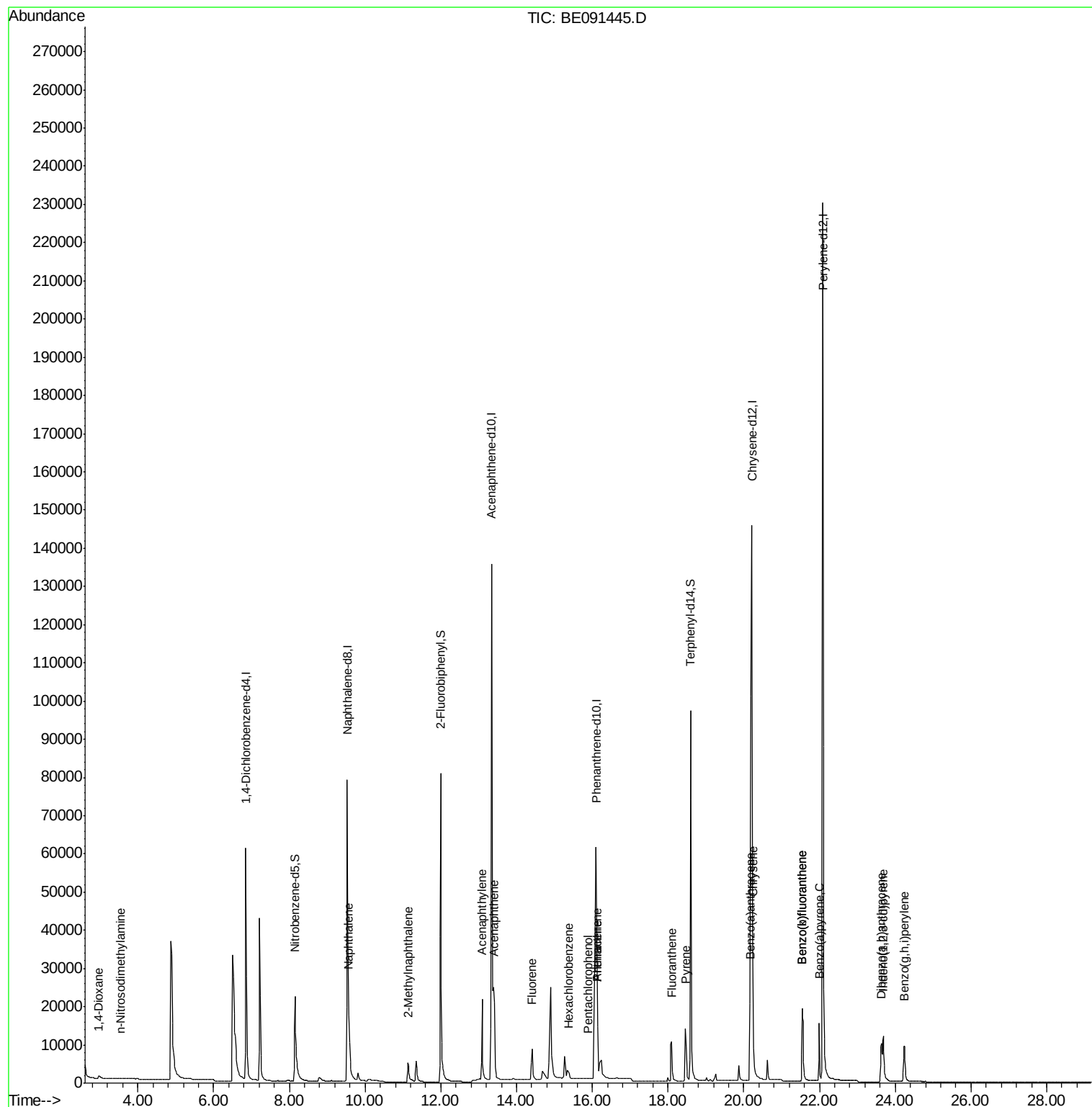
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	34187	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	150935	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	93657	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	143388	5.00	ng	0.00
19) Chrysene-d12	20.21	240	251592	5.00	ng	0.00
25) Perylene-d12	22.09	264	295844	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.14	82	37377	4.00	ng	-0.03
9) 2-Fluorobiphenyl	11.99	172	105238	4.63	ng	-0.01
21) Terphenyl-d14	18.59	244	175874	4.59	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.97	88	953	0.31	ng	83
3) n-Nitrosodimethylamine	3.54	42	570	0.26	ng	# 1
6) Naphthalene	9.57	128	10618	0.30	ng	99
7) 2-Methylnaphthalene	11.14	142	7361	0.36	ng	95
10) Acenaphthylene	13.09	152	37196	0.24	ng	99
11) Acenaphthene	13.41	154	7518	0.27	ng	# 100
12) Fluorene	14.41	166	8865	0.24	ng	98
14) Hexachlorobenzene	15.38	284	2541	0.30	ng	# 100
15) Pentachlorophenol	15.89	266	307	0.58	ng	95
16) Phenanthrene	16.13	178	16632	0.33	ng	99
17) Anthracene	16.13	178	16325	0.32	ng	93
18) Fluoranthene	18.09	202	18895	0.31	ng	99
20) Pyrene	18.46	202	19460	0.27	ng	99
22) Benzo(a)anthracene	20.17	228	23890	0.28	ng	99
23) Chrysene	20.23	228	25277	0.27	ng	100
24) Indeno(1,2,3-cd)pyrene	23.68	276	22126	0.29	ng	# 90
26) Benzo(b)fluoranthene	21.54	252	42827	0.52	ng	98
27) Benzo(k)fluoranthene	21.54	252	43136	0.54	ng	96
28) Benzo(a)pyrene	21.99	252	18846	0.26	ng	98
29) Dibenzo(a,h)anthracene	23.64	278	17127	0.25	ng	97
30) Benzo(g,h,i)perylene	24.24	276	19239	0.26	ng	97

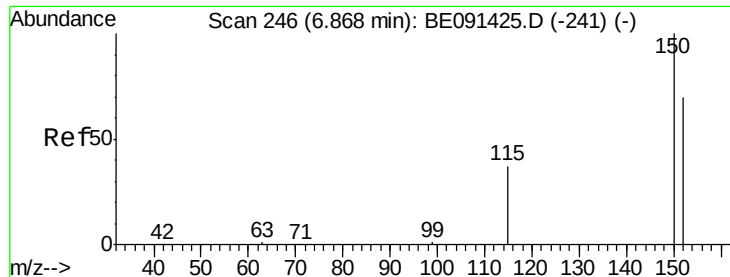
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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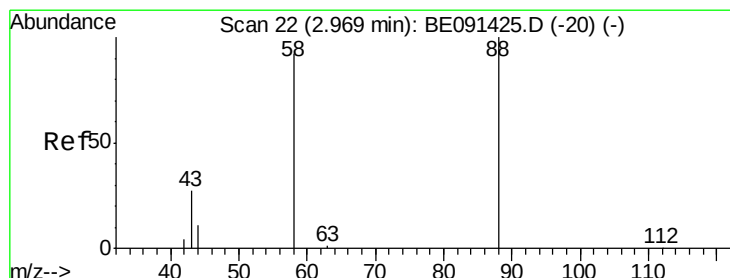
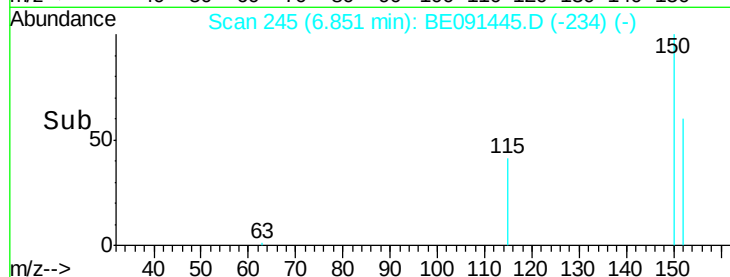
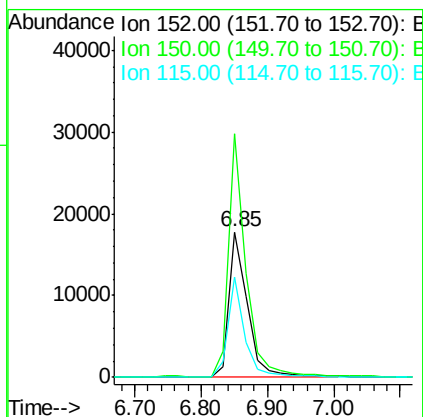
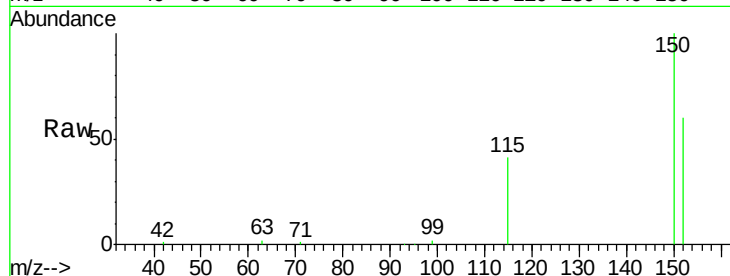




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 6.85 min Scan# 245
 Delta R.T. -0.02 min
 Lab File: BE091445.D
 Acq: 4 Mar 2016 4:55

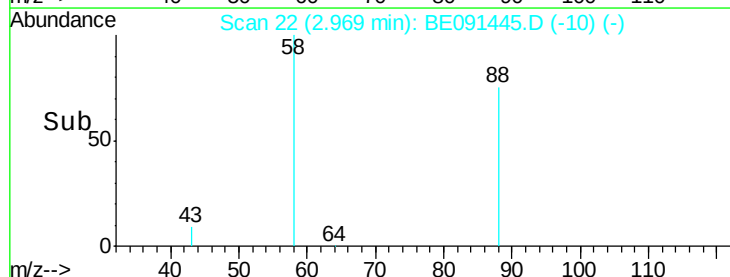
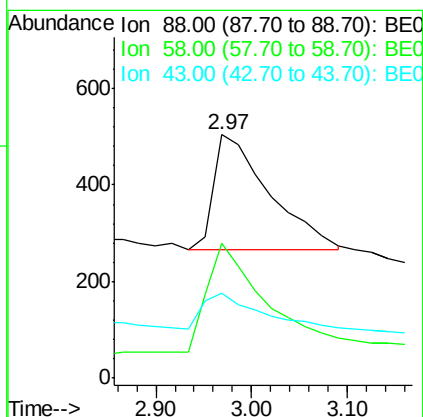
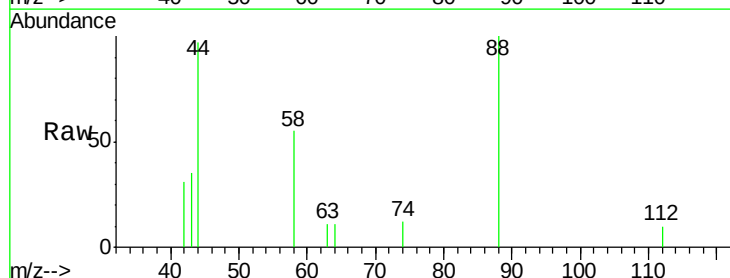
Instrument :
 BNA_E
 ClientSampleId :

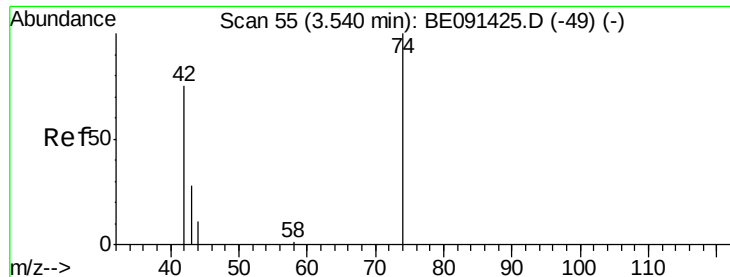
Tgt Ion: 152 Resp: 34187
 Ion Ratio Lower Upper
 152 100
 150 167.5 115.0 172.4
 115 68.9 42.2 63.4#



#2
 1,4-Dioxane
 Concen: 0.31 ng
 RT: 2.97 min Scan# 22
 Delta R.T. -0.00 min
 Lab File: BE091445.D
 Acq: 4 Mar 2016 4:55

Tgt Ion: 88 Resp: 953
 Ion Ratio Lower Upper
 88 100
 58 101.2 97.9 146.9
 43 29.7 29.0 43.4





#3

n-Nitrosodimethylamine

Concen: 0.26 ng

RT: 3.54 min Scan# 55

Delta R.T. -0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

Instrument :

BNA_E

ClientSampleId :

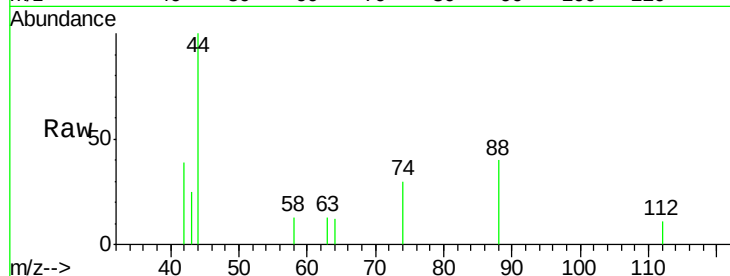
Tgt Ion: 42 Resp: 570

Ion Ratio Lower Upper

42 100

74 0.0 93.8 140.6#

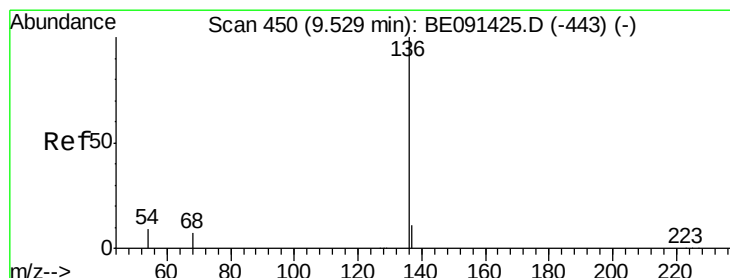
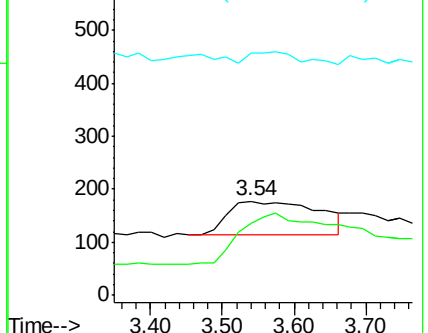
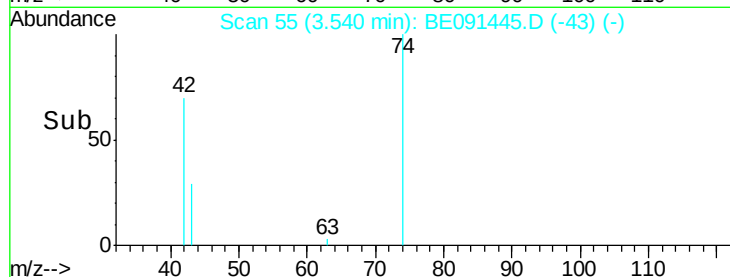
44 0.0 0.0 0.0



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: BE091445.D

Acq: 4 Mar 2016 4:55

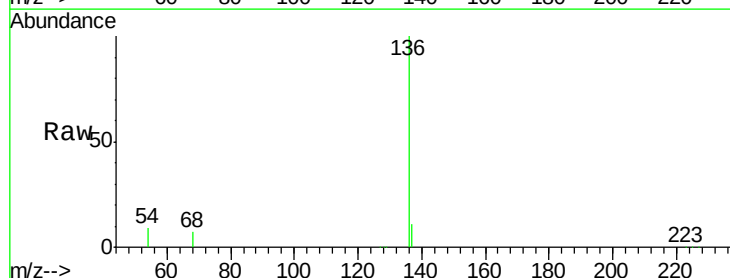
Tgt Ion: 136 Resp: 150935

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

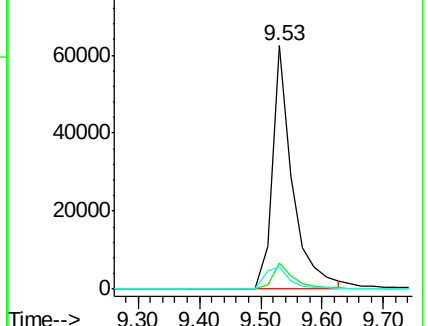
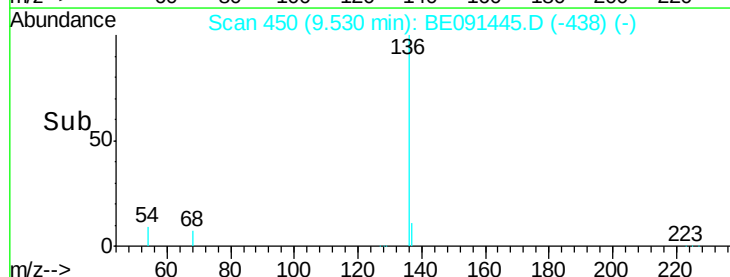
54 9.1 6.9 10.3

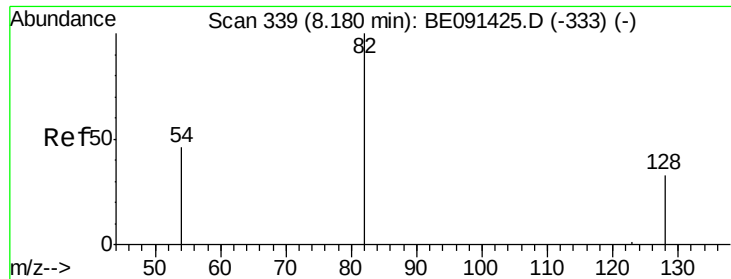


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 4.00 ng

RT: 8.14 min Scan# 336

Delta R.T. -0.03 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

Instrument :

BNA_E

ClientSampleId :

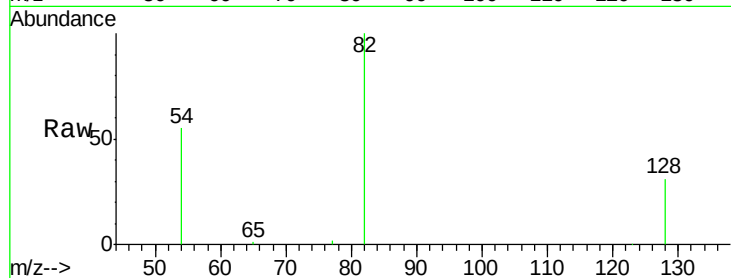
Tgt Ion: 82 Resp: 37377

Ion Ratio Lower Upper

82 100

128 30.8 30.0 45.0

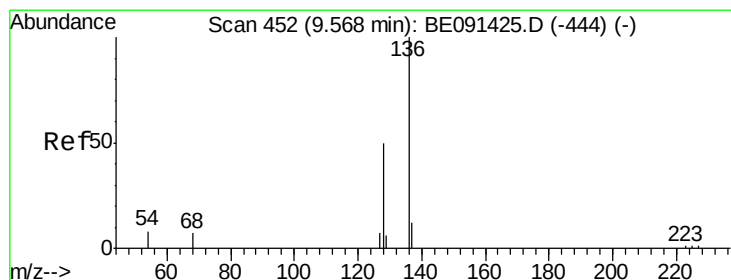
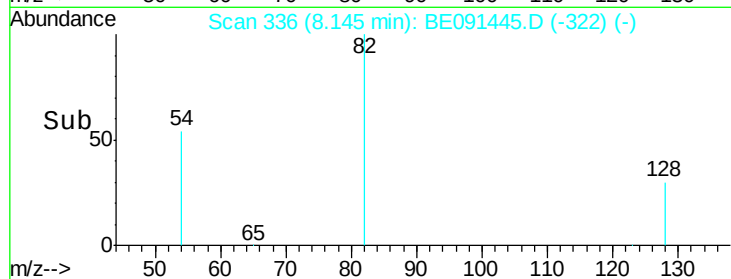
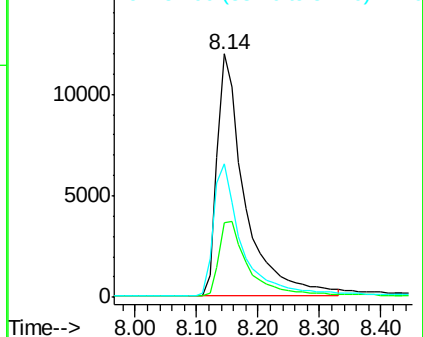
54 54.7 41.5 62.3



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: 0.30 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

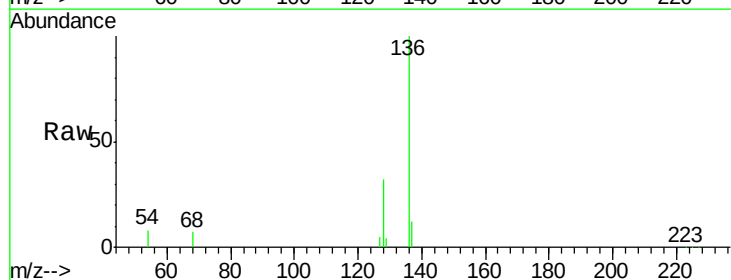
Tgt Ion: 128 Resp: 10618

Ion Ratio Lower Upper

128 100

129 11.6 9.5 14.3

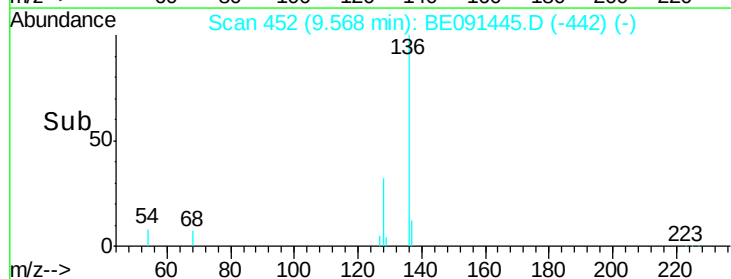
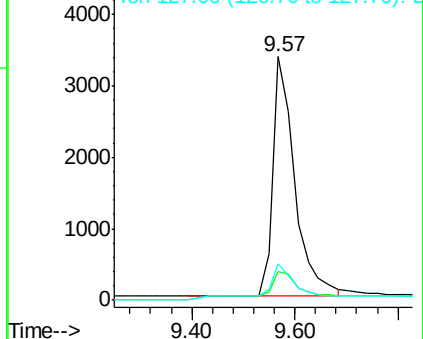
127 14.9 11.4 17.0

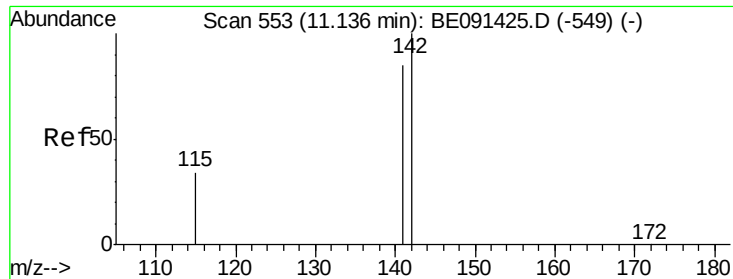


Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#7

2-Methylnaphthalene

Concen: 0.36 ng

RT: 11.14 min Scan# 553

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

Instrument :

BNA_E

ClientSampleId :

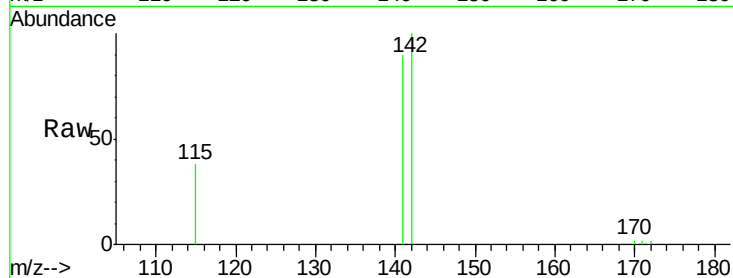
Tgt Ion:142 Resp: 7361

Ion Ratio Lower Upper

142 100

141 89.8 68.3 102.5

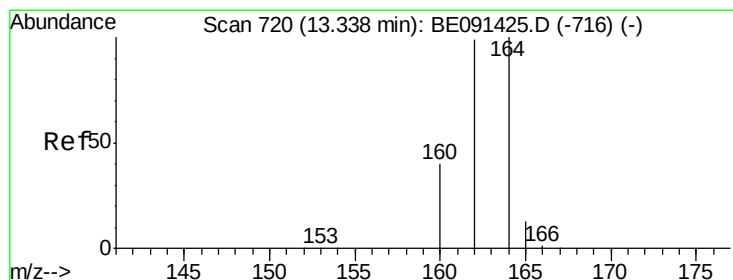
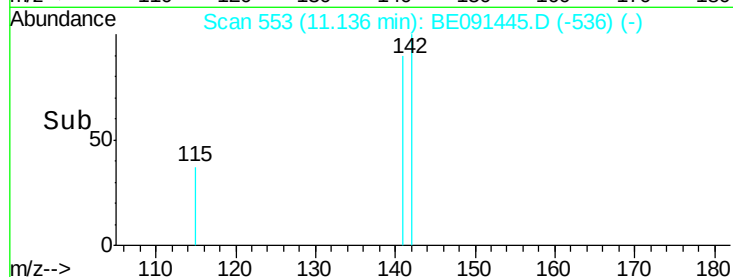
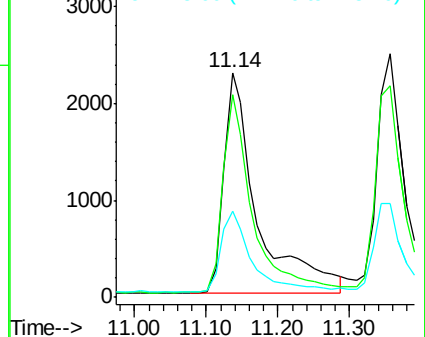
115 38.5 28.9 43.3



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: BE091445.D

Acq: 4 Mar 2016 4:55

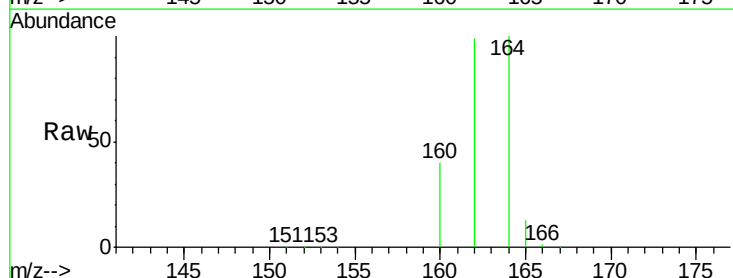
Tgt Ion:164 Resp: 93657

Ion Ratio Lower Upper

164 100

162 98.9 79.1 118.7

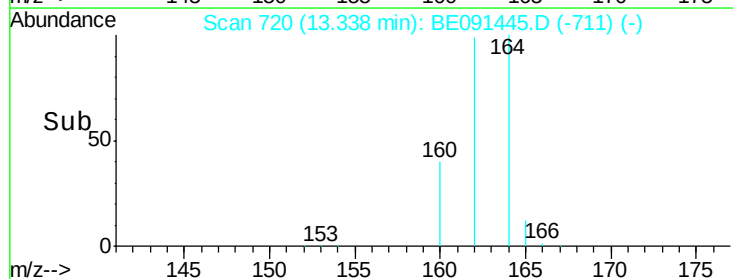
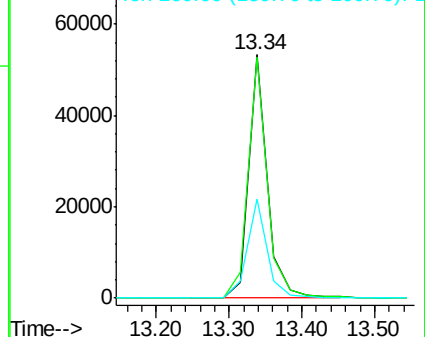
160 40.4 32.4 48.6

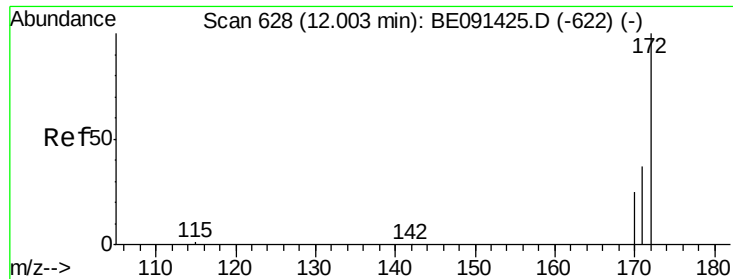


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 4.63 ng

RT: 11.99 min Scan# 627

Delta R.T. -0.01 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

Instrument :

BNA_E

ClientSampleId :

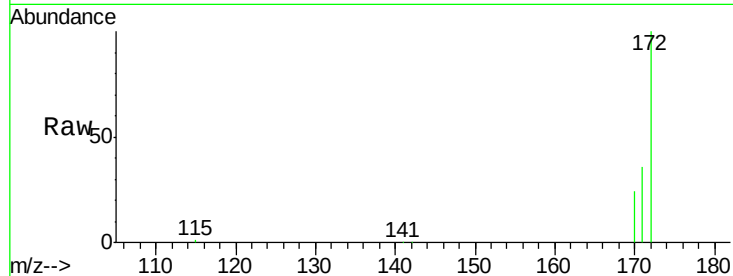
Tgt Ion:172 Resp: 105238

Ion Ratio Lower Upper

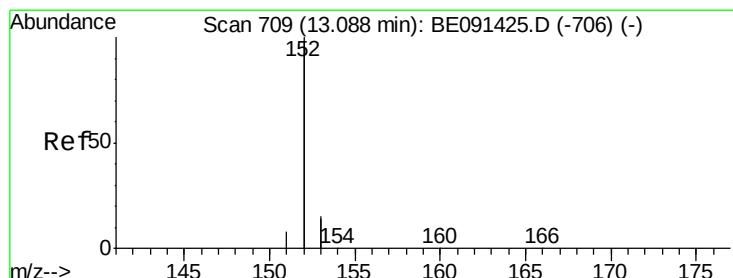
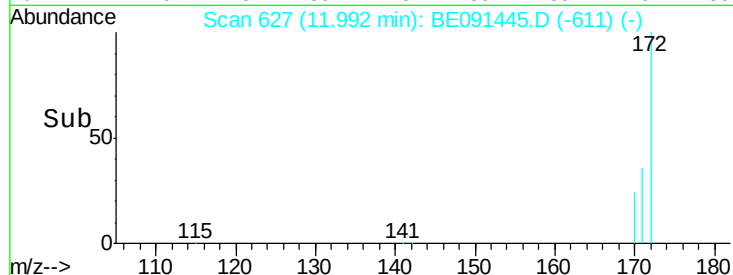
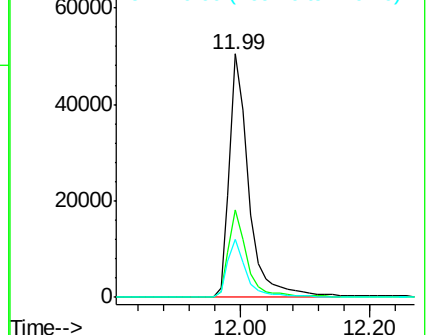
172 100

171 35.7 30.2 45.4

170 23.9 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: 0.24 ng

RT: 13.09 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

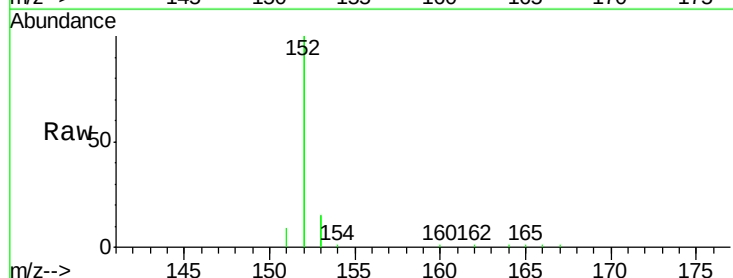
Tgt Ion:152 Resp: 37196

Ion Ratio Lower Upper

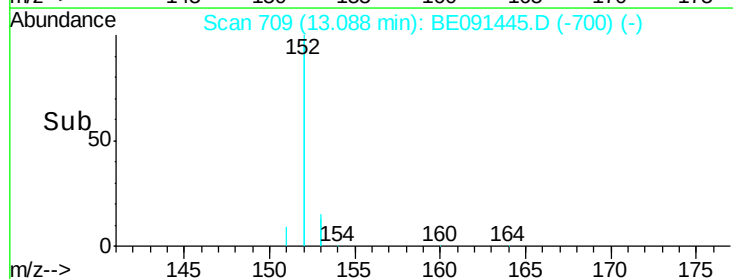
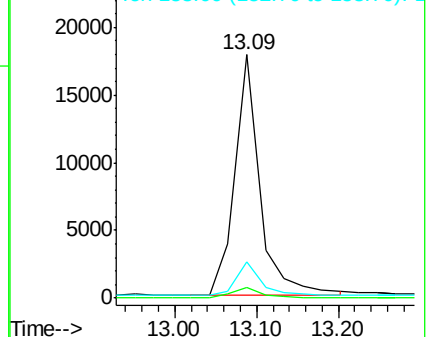
152 100

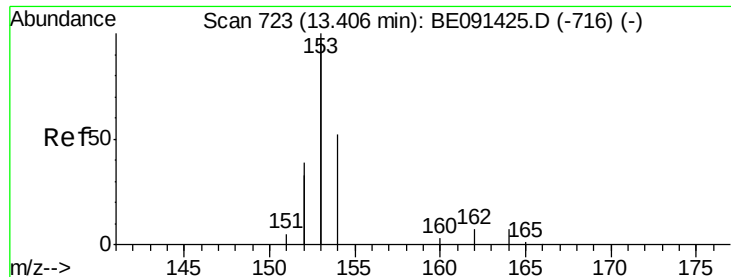
151 4.8 3.9 5.9

153 13.3 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: 0.27 ng

RT: 13.41 min Scan# 723

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

Instrument :

BNA_E

ClientSampleId :

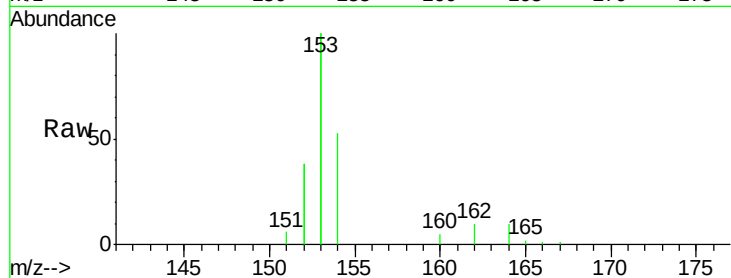
Tgt Ion:154 Resp: 7518

Ion Ratio Lower Upper

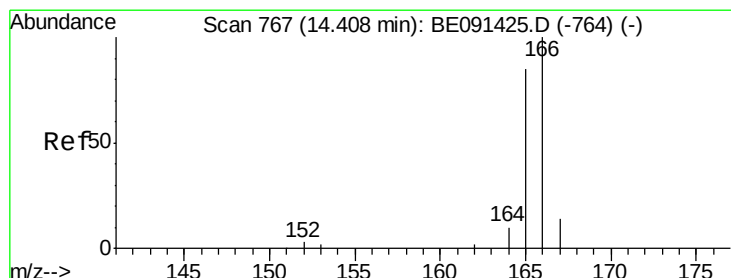
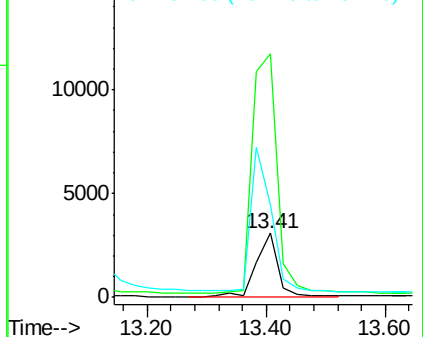
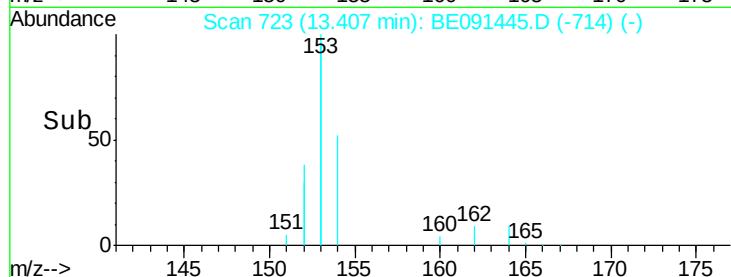
154 100

153 442.4 0.0 0.0#

152 0.0 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: 0.24 ng

RT: 14.41 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

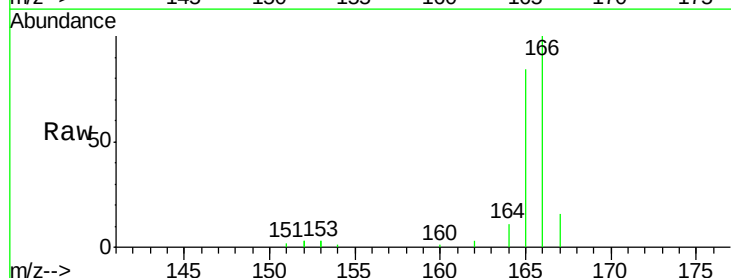
Tgt Ion:166 Resp: 8865

Ion Ratio Lower Upper

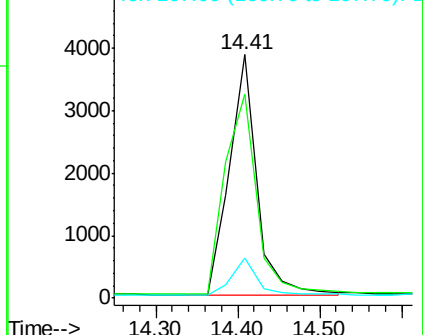
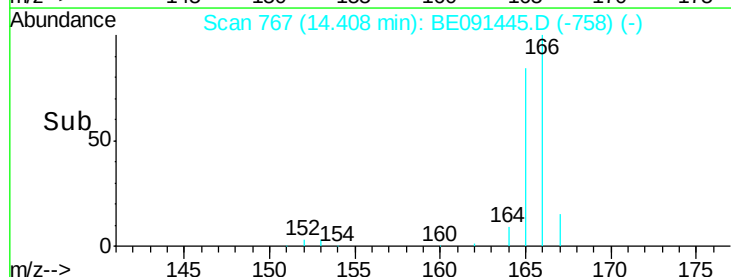
166 100

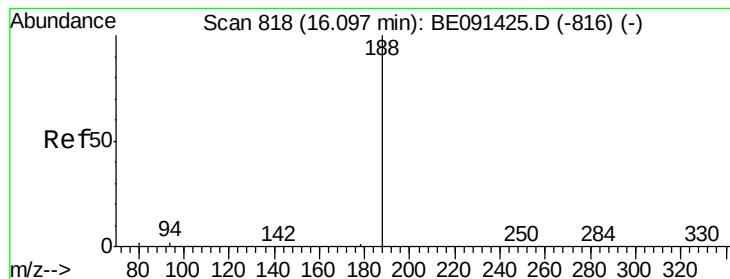
165 96.9 79.4 119.2

167 14.2 10.7 16.1



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: 16.10 min Scan# 818

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

Instrument :

BNA_E

ClientSampleId :

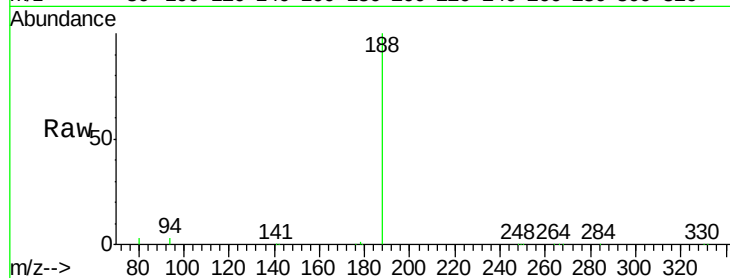
Tgt Ion:188 Resp: 143388

Ion Ratio Lower Upper

188 100

94 2.9 2.1 3.1

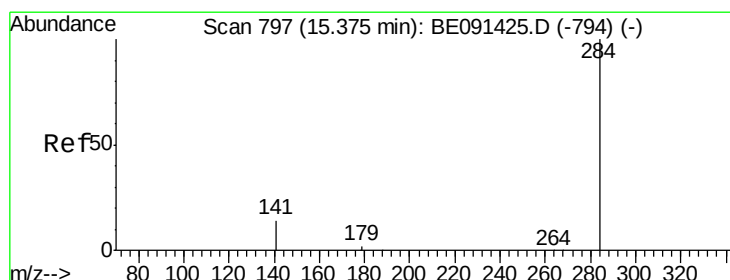
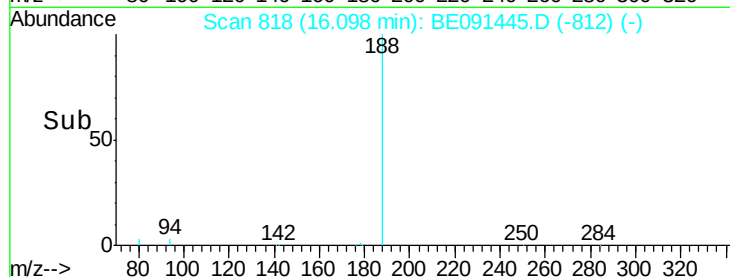
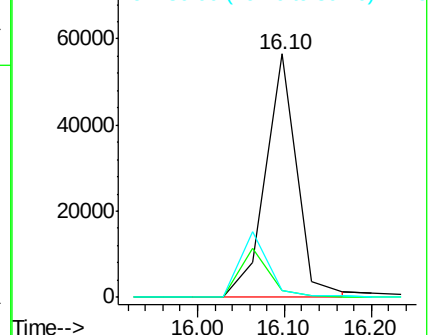
80 2.8 1.9 2.9



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: 0.30 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

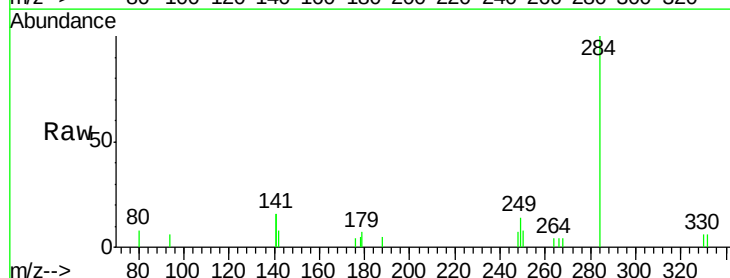
Tgt Ion:284 Resp: 2541

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

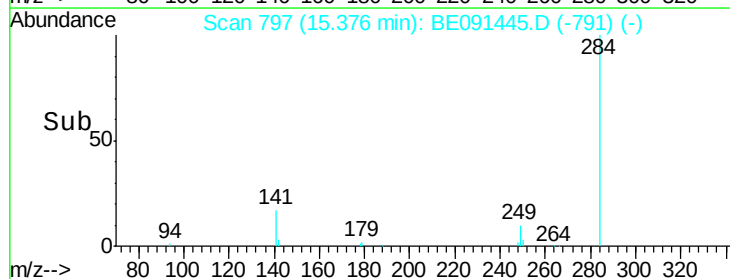
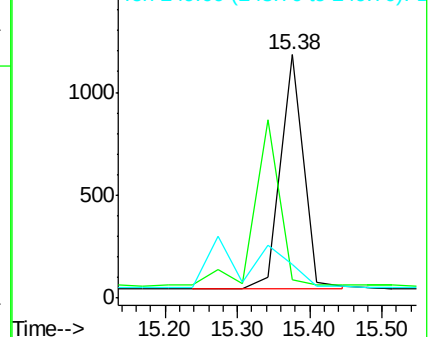
249 0.0 0.0 0.0

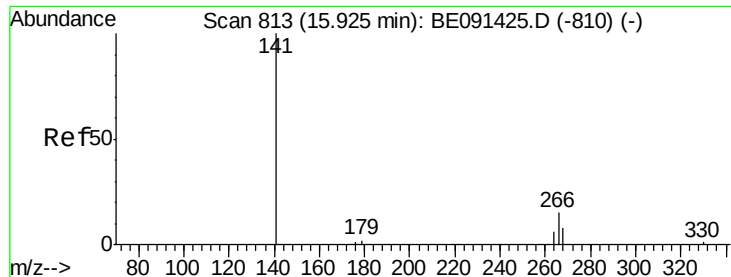


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

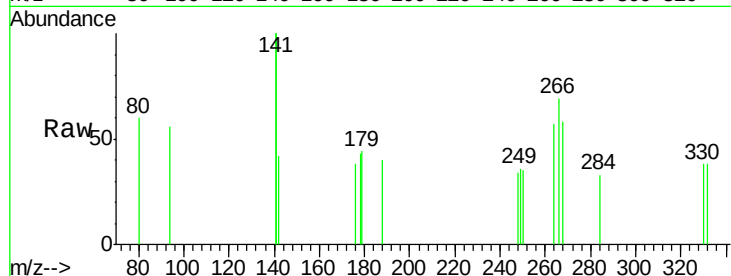




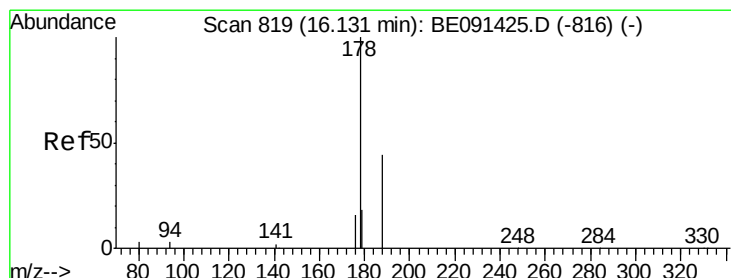
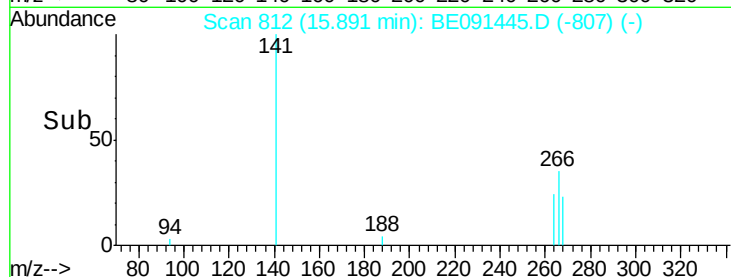
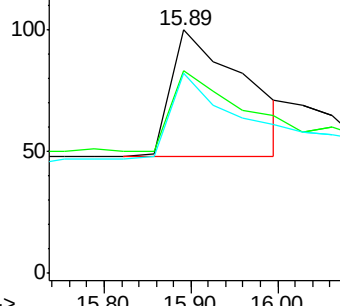
#15
 Pentachlorophenol
 Concen: 0.58 ng
 RT: 15.89 min Scan# 812
 Delta R.T. -0.03 min
 Lab File: BE091445.D
 Acq: 4 Mar 2016 4:55

Instrument :
 BNA_E
 ClientSampled :

Tgt Ion: 266 Resp: 307
 Ion Ratio Lower Upper
 266 100
 268 83.0 73.0 109.6
 264 82.0 66.1 99.1

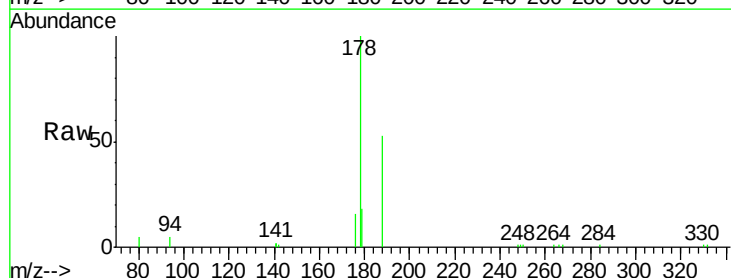


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

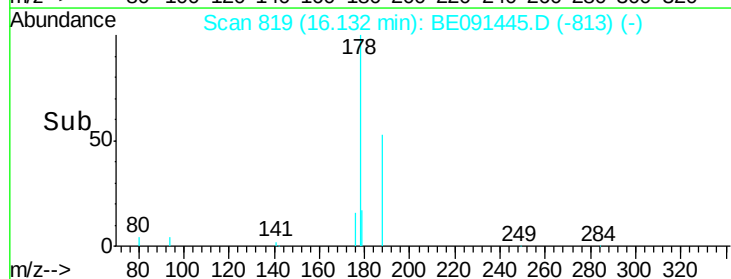
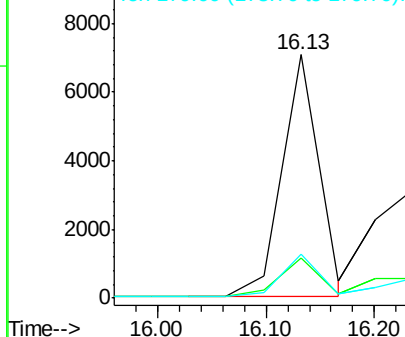


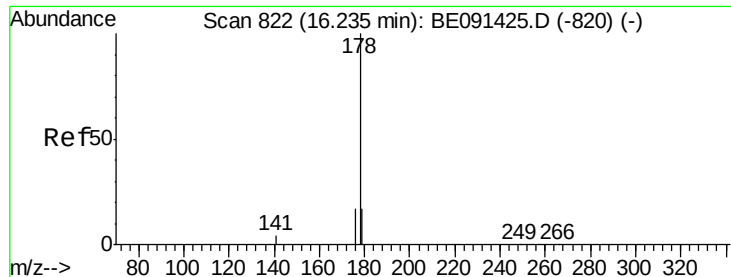
#16
 Phenanthrene
 Concen: 0.33 ng
 RT: 16.13 min Scan# 819
 Delta R.T. 0.00 min
 Lab File: BE091445.D
 Acq: 4 Mar 2016 4:55

Tgt Ion: 178 Resp: 16632
 Ion Ratio Lower Upper
 178 100
 176 16.8 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

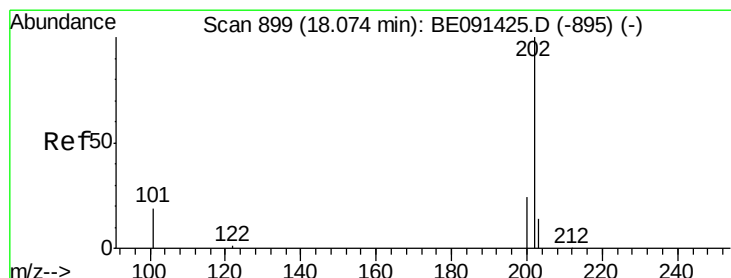
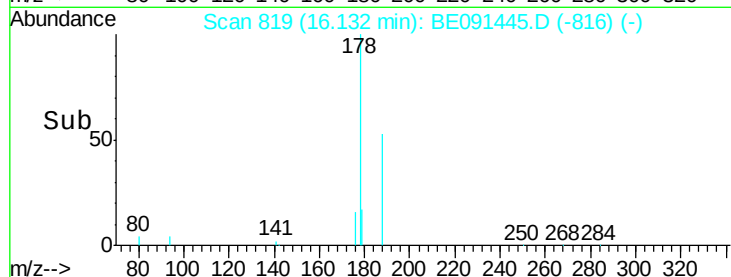
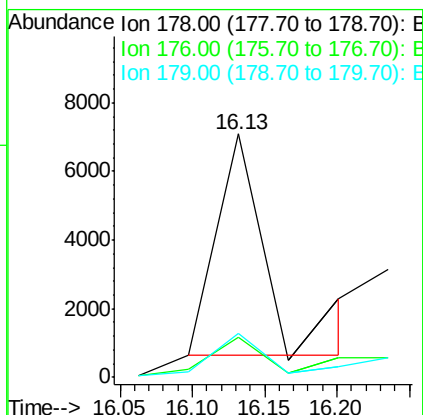
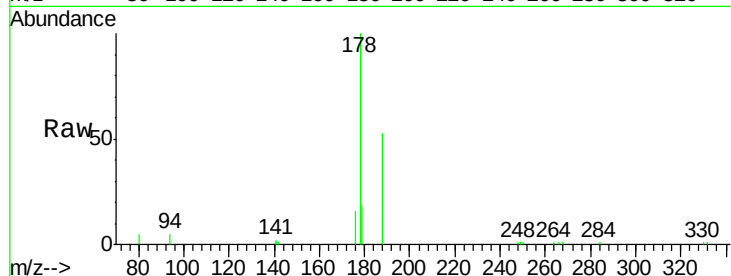




#17
 Anthracene
 Concen: 0.32 ng
 RT: 16.13 min Scan# 819
 Delta R.T. -0.10 min
 Lab File: BE091445.D
 Acq: 4 Mar 2016 4:55

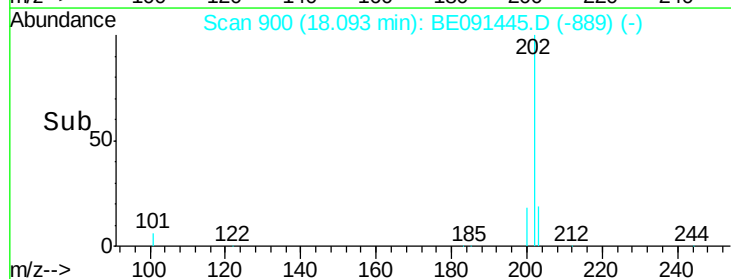
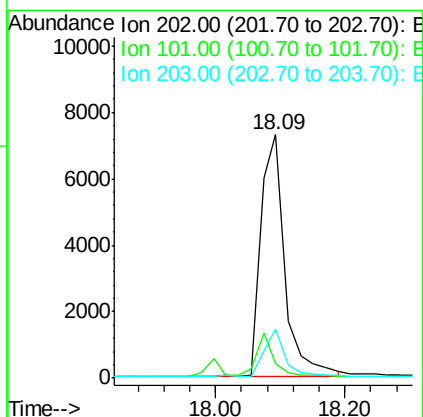
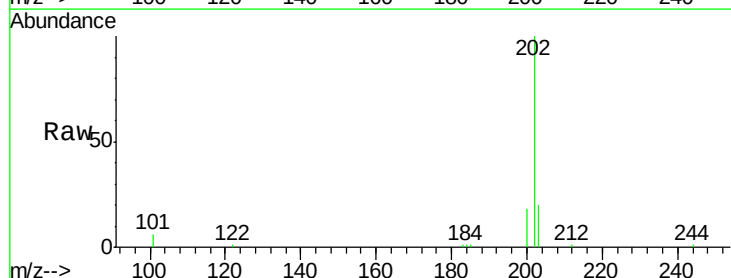
Instrument :
 BNA_E
 ClientSampleId :

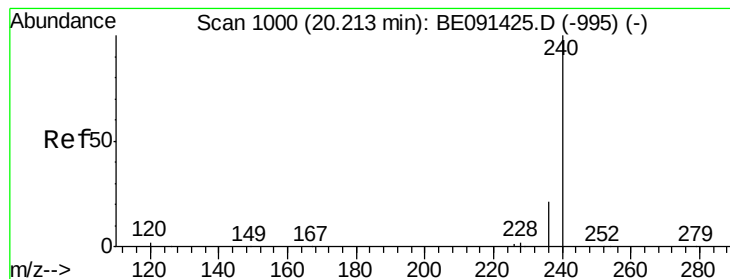
Tgt Ion:178 Resp: 16325
 Ion Ratio Lower Upper
 178 100
 176 26.9 24.4 36.6
 179 15.6 14.8 22.2



#18
 Fluoranthene
 Concen: 0.31 ng
 RT: 18.09 min Scan# 900
 Delta R.T. 0.02 min
 Lab File: BE091445.D
 Acq: 4 Mar 2016 4:55

Tgt Ion:202 Resp: 18895
 Ion Ratio Lower Upper
 202 100
 101 12.7 11.0 16.6
 203 17.3 13.7 20.5





#19

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

Instrument :

BNA_E

ClientSampleId :

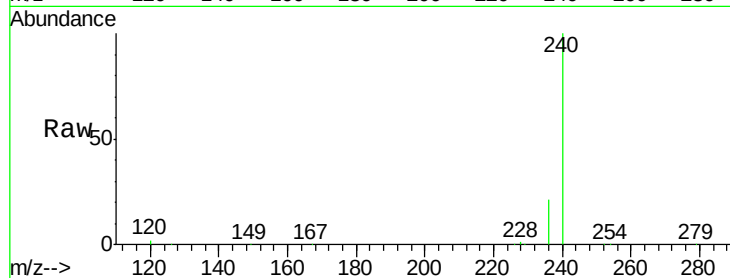
Tgt Ion:240 Resp: 251592

Ion Ratio Lower Upper

240 100

120 1.7 1.4 2.0

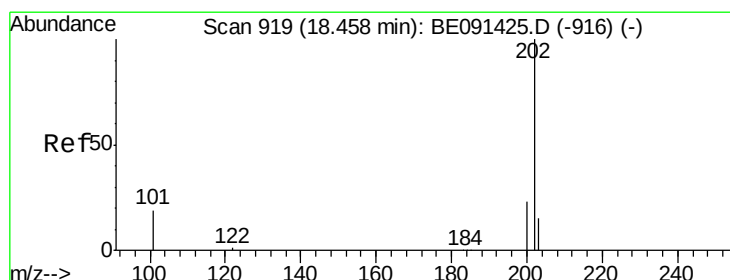
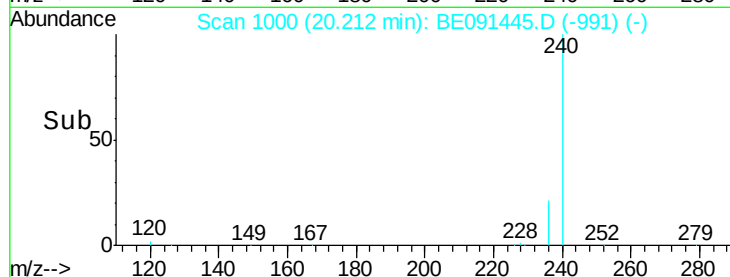
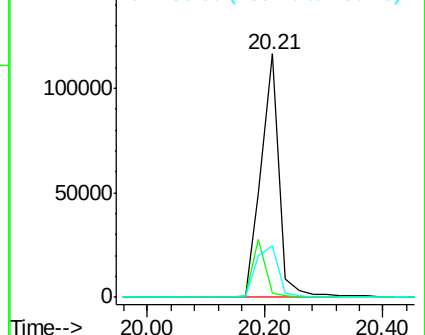
236 21.2 16.7 25.1



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: 0.27 ng

RT: 18.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

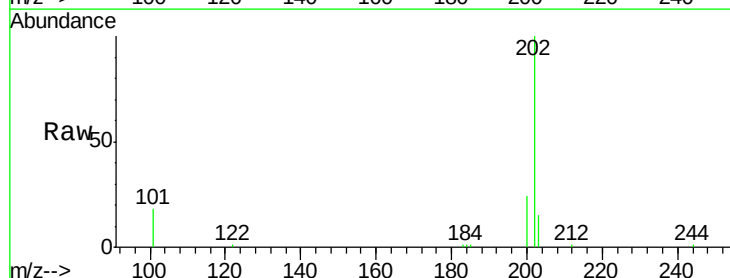
Tgt Ion:202 Resp: 19460

Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

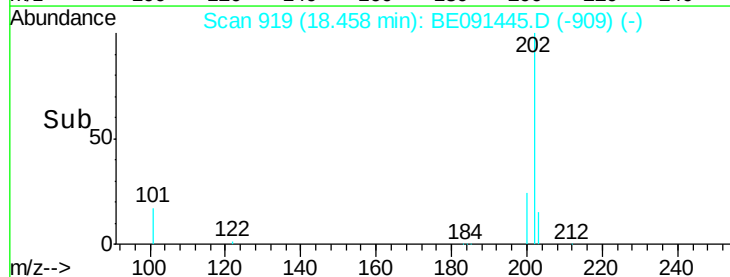
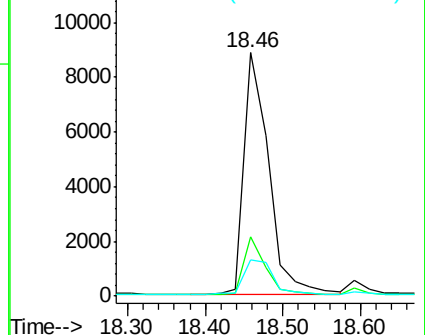
203 17.3 13.8 20.6

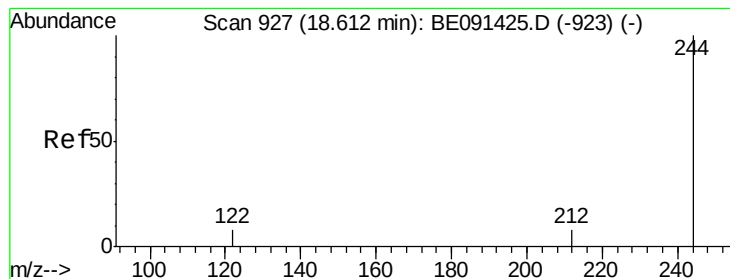


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 4.59 ng

RT: 18.59 min Scan# 926

Delta R.T. -0.02 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

Instrument :

BNA_E

ClientSampled :

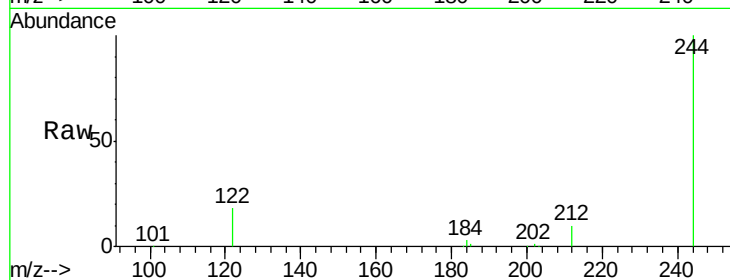
Tgt Ion:244 Resp: 175874

Ion Ratio Lower Upper

244 100

212 9.9 7.0 10.6

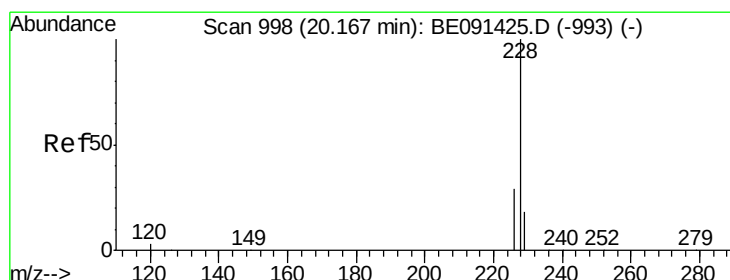
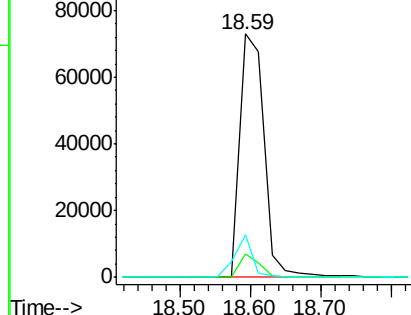
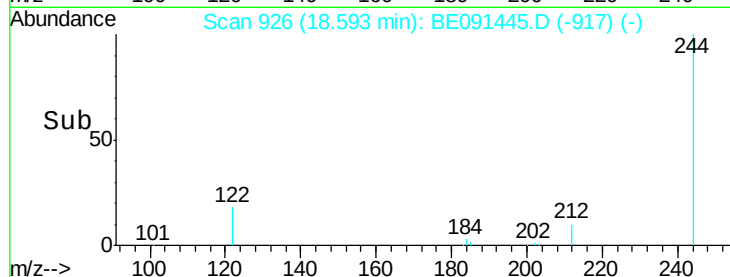
122 17.7 6.8 10.2#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 0.28 ng

RT: 20.17 min Scan# 998

Delta R.T. -0.00 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

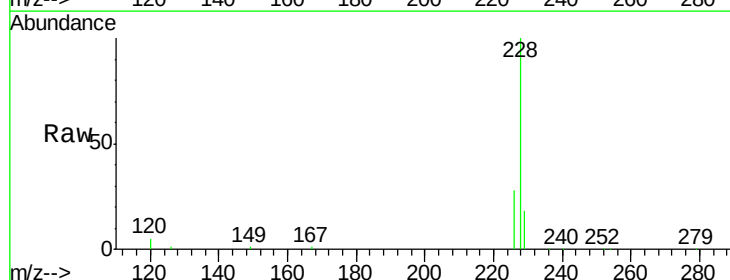
Tgt Ion:228 Resp: 23890

Ion Ratio Lower Upper

228 100

226 27.9 23.1 34.7

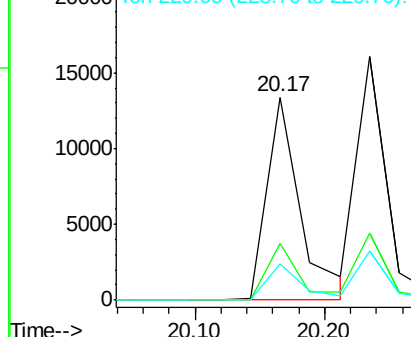
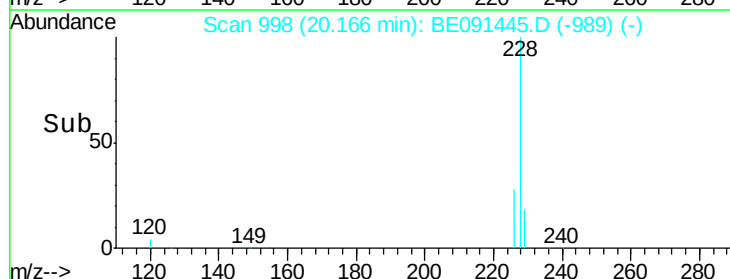
229 18.0 14.5 21.7

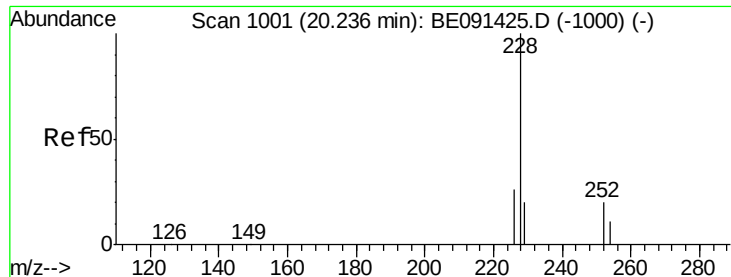


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

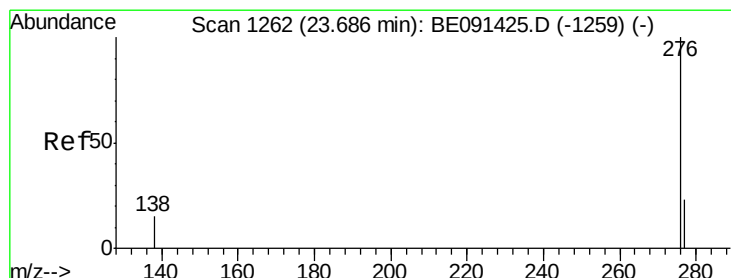
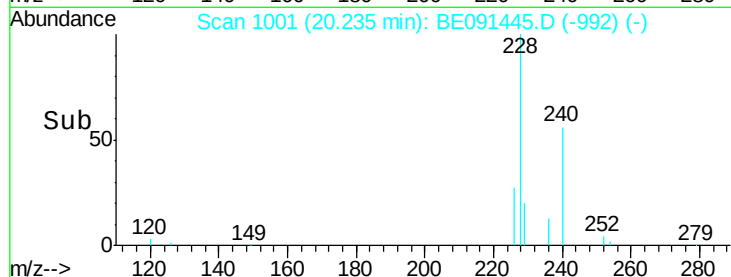
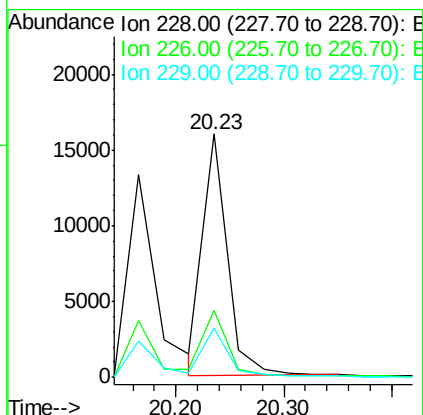
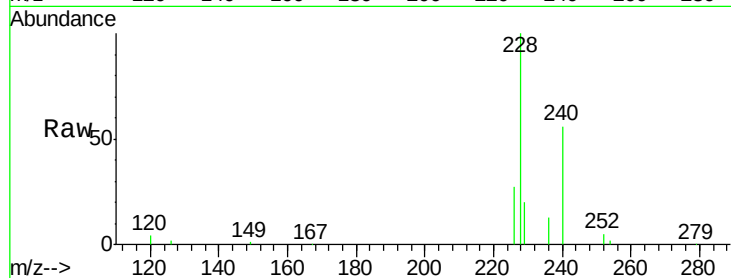




#23
Chrysene
Concen: 0.27 ng
RT: 20.23 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091445.D
Acq: 4 Mar 2016 4:55

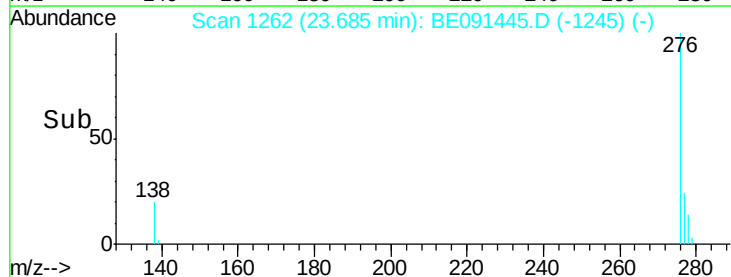
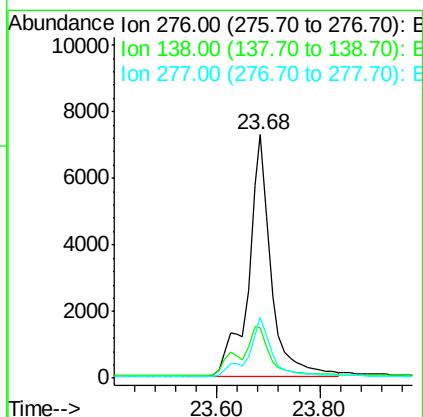
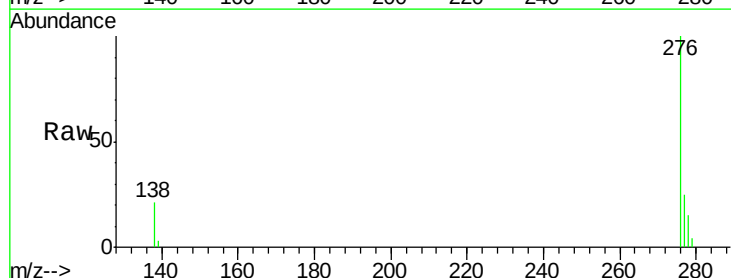
Instrument :
BNA_E
ClientSampleId :

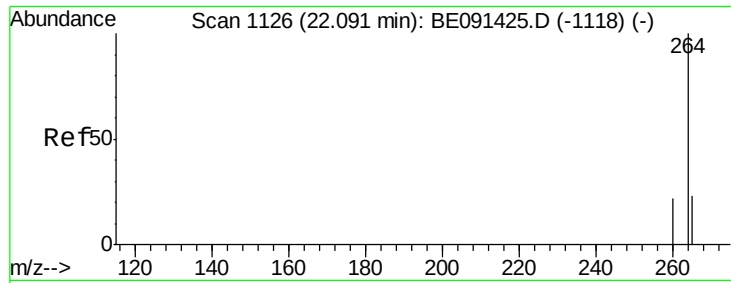
Tgt Ion: 228 Resp: 25277
Ion Ratio Lower Upper
228 100
226 27.3 22.0 33.0
229 20.3 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.29 ng
RT: 23.68 min Scan# 1262
Delta R.T. -0.00 min
Lab File: BE091445.D
Acq: 4 Mar 2016 4:55

Tgt Ion: 276 Resp: 22126
Ion Ratio Lower Upper
276 100
138 26.7 16.1 24.1#
277 24.8 22.9 34.3

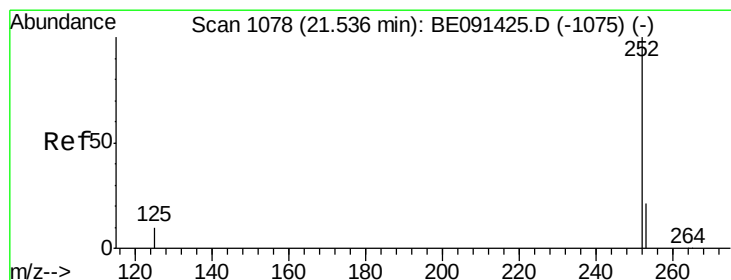
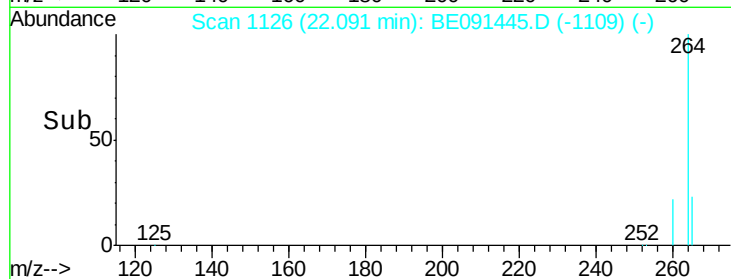
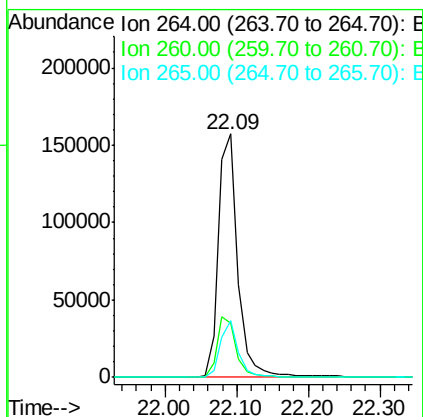
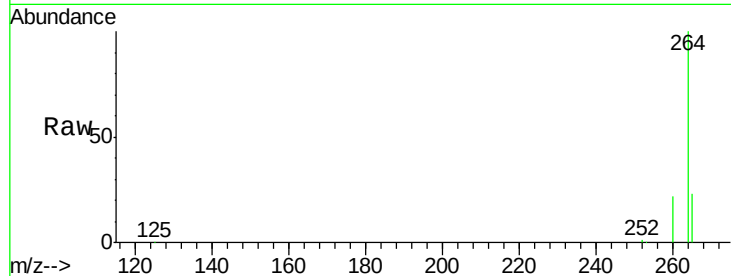




#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 1126
Delta R.T. 0.00 min
Lab File: BE091445.D
Acq: 4 Mar 2016 4:55

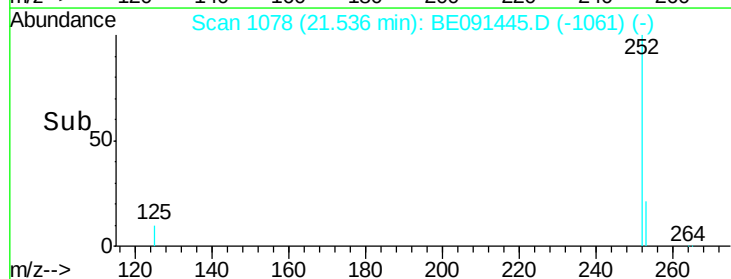
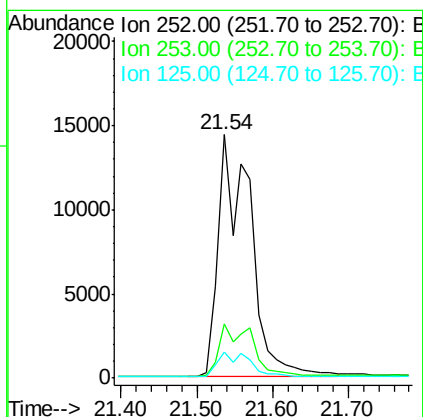
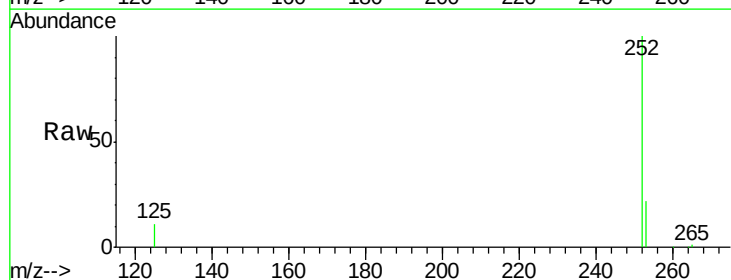
Instrument :
BNA_E
ClientSampleId :

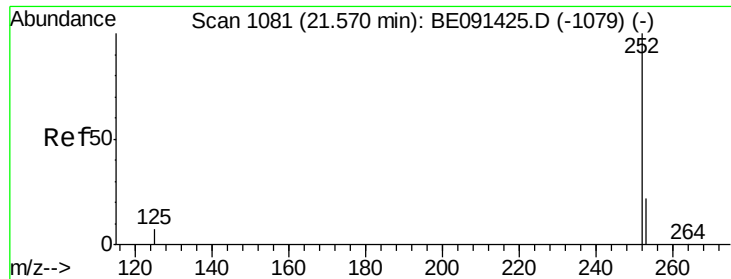
Tgt Ion: 264 Resp: 295844
Ion Ratio Lower Upper
264 100
260 22.4 18.0 27.0
265 23.2 18.2 27.4



#26
Benzo(b)fluoranthene
Concen: 0.52 ng
RT: 21.54 min Scan# 1078
Delta R.T. 0.00 min
Lab File: BE091445.D
Acq: 4 Mar 2016 4:55

Tgt Ion: 252 Resp: 42827
Ion Ratio Lower Upper
252 100
253 22.2 17.0 25.4
125 10.5 8.3 12.5

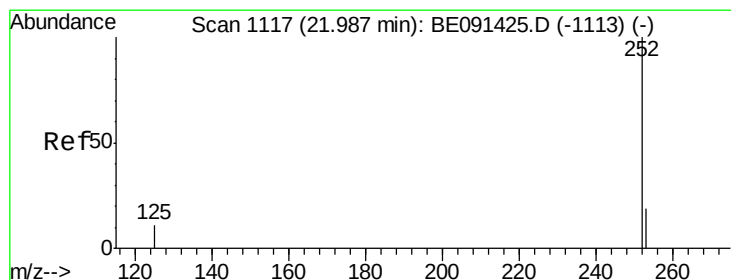
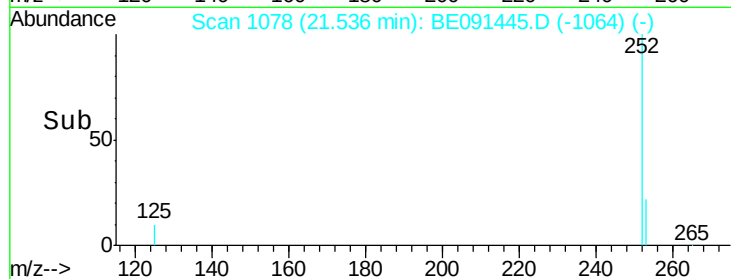
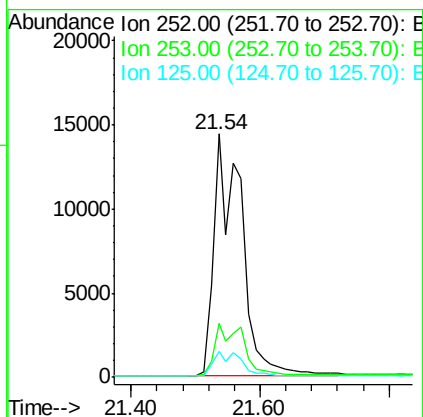
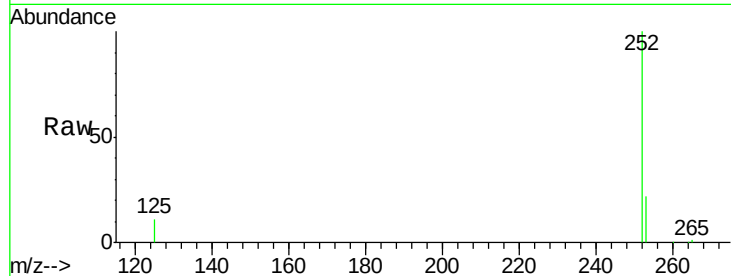




#27
 Benzo(k)fluoranthene
 Concen: 0.54 ng
 RT: 21.54 min Scan# 1078
 Delta R.T. -0.03 min
 Lab File: BE091445.D
 Acq: 4 Mar 2016 4:55

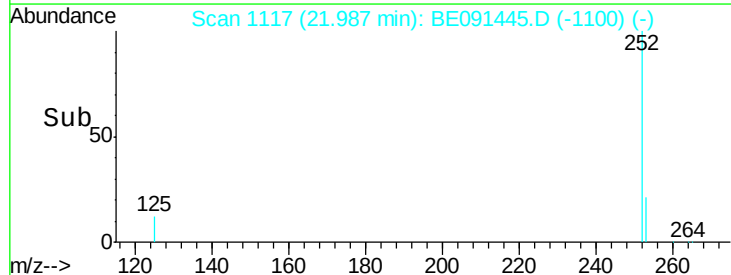
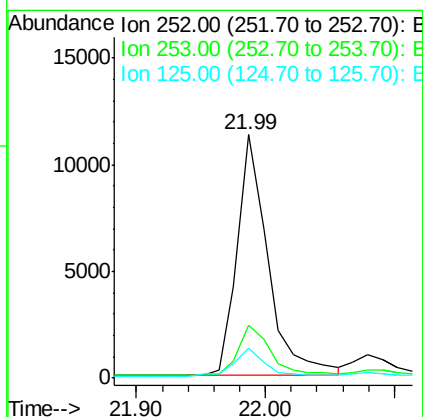
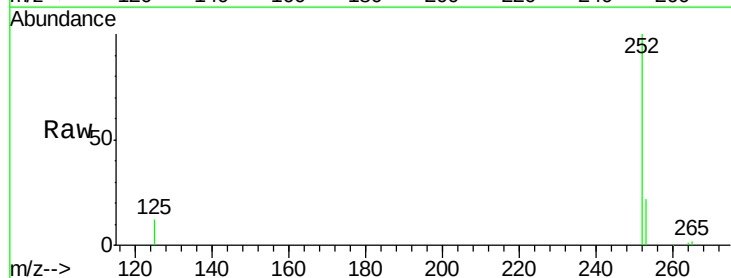
Instrument :
 BNA_E
 ClientSampleId :

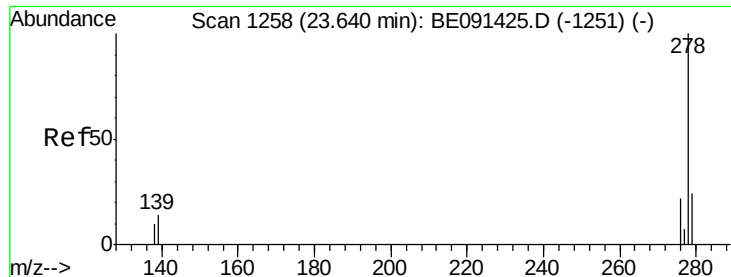
Tgt Ion: 252 Resp: 43136
 Ion Ratio Lower Upper
 252 100
 253 22.2 19.5 29.3
 125 10.5 7.3 10.9



#28
 Benzo(a)pyrene
 Concen: 0.26 ng
 RT: 21.99 min Scan# 1117
 Delta R.T. 0.00 min
 Lab File: BE091445.D
 Acq: 4 Mar 2016 4:55

Tgt Ion: 252 Resp: 18846
 Ion Ratio Lower Upper
 252 100
 253 21.6 16.2 24.4
 125 12.1 9.6 14.4





#29

Dibenzo(a,h)anthracene

Concen: 0.25 ng

RT: 23.64 min Scan# 1258

Delta R.T. -0.00 min

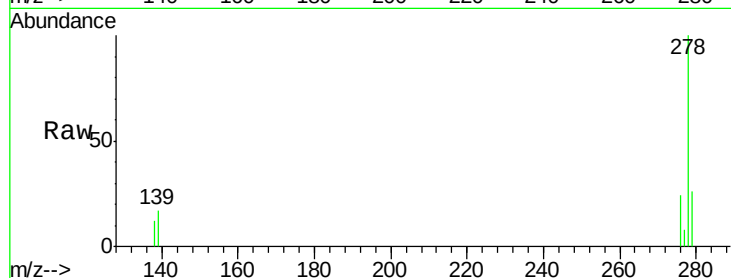
Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

Instrument :

BNA_E

ClientSampleId :



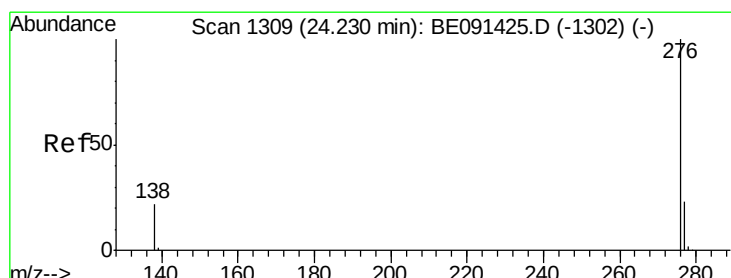
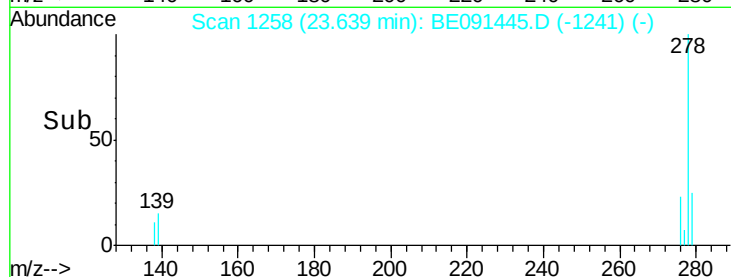
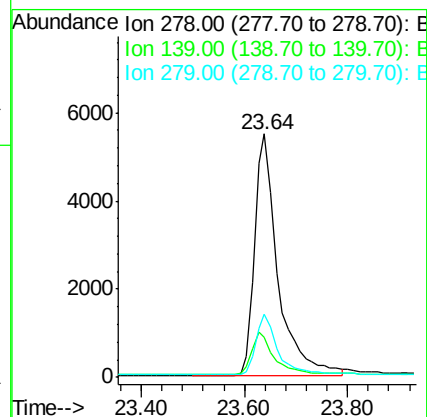
Tgt Ion: 278 Resp: 17127

Ion Ratio Lower Upper

278 100

139 16.5 12.1 18.1

279 25.9 19.4 29.0



#30

Benzo(g,h,i)perylene

Concen: 0.26 ng

RT: 24.24 min Scan# 1310

Delta R.T. 0.01 min

Lab File: BE091445.D

Acq: 4 Mar 2016 4:55

Tgt Ion: 276 Resp: 19239

Ion Ratio Lower Upper

276 100

277 25.3 19.0 28.6

138 20.9 18.2 27.4

