

Data Path : Z:\HPCHEM1\BNA E\DATA\BE120817\
 Data File : BE094960.D
 Acq On : 8 Dec 2017 21:55
 Operator : SJ/JU
 Sample : I6740-07
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-456S-20171204

Quant Time: Dec 09 00:29:13 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 13:33:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.48	152	3619	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	7633	0.40	ng	0.00
13) Acenaphthene-d10	15.08	164	4223	0.40	ng	0.00
19) Phenanthrene-d10	17.77	188	9841	0.40	ng	0.00
27) Chrysene-d12	21.89	240	11757	0.40	ng	0.00
34) Perylene-d12	24.57	264	9213	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.95	112	1898	0.33	ng	0.00
5) Phenol-d6	7.60	99	1977	0.23	ng	0.00
8) Nitrobenzene-d5	9.66	82	5480	1.21	ng	0.00
11) 2-Methylnaphthalene-d10	12.87	152	9771	0.80	ng	0.00
14) 2,4,6-Tribromophenol	16.53	330	863	0.85	ng	0.00
15) 2-Fluorobiphenyl	13.71	172	24586	1.36	ng	0.00
25) Fluoranthene-d10	19.76	212	108476	0.81	ng	0.00
29) Terphenyl-d14	20.33	244	26188	1.21	ng	0.00

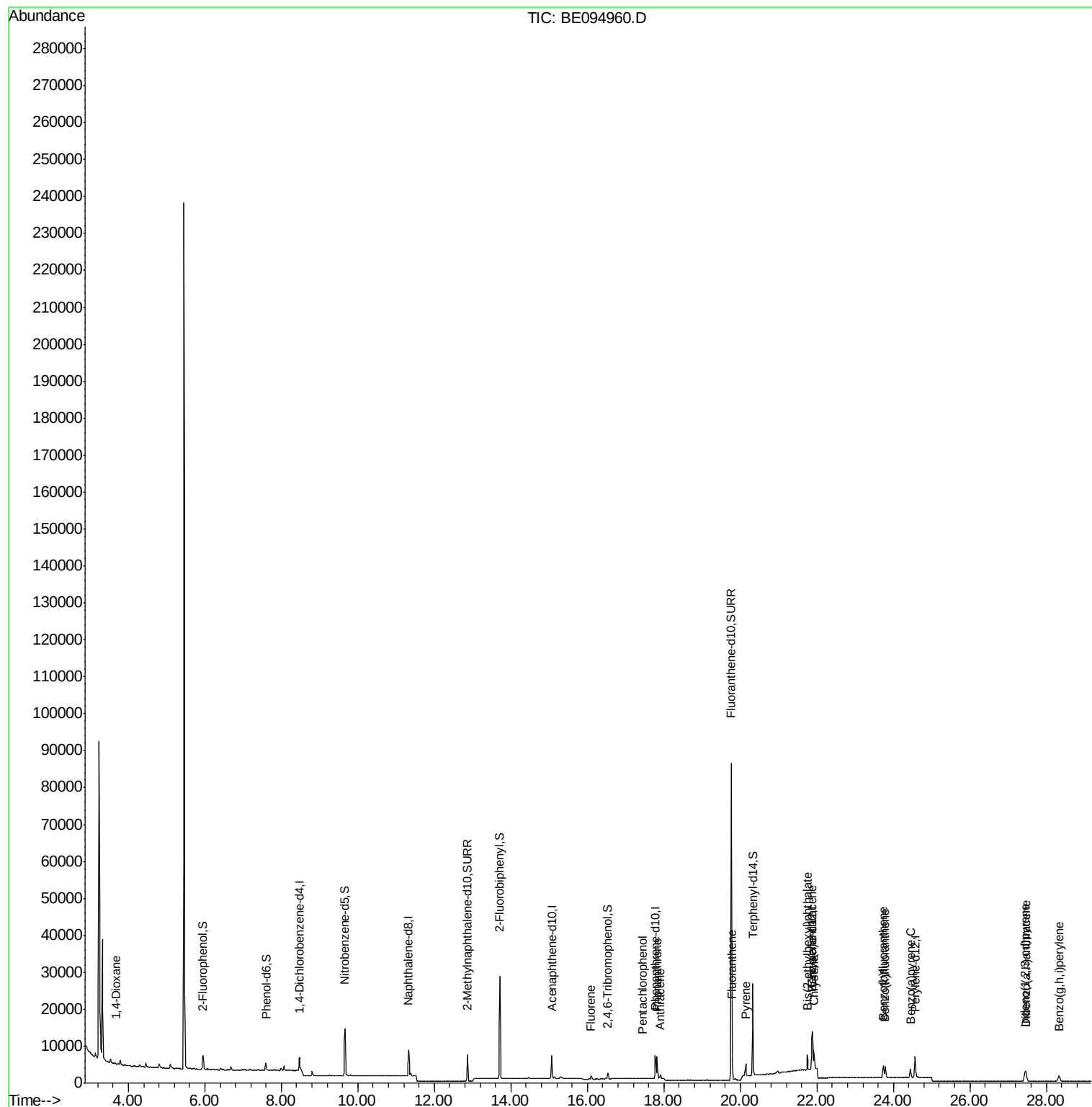
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.69	88	149	0.039	ng	# 16
18) Fluorene	16.10	166	669	0.034	ng	# 82
22) Pentachlorophenol	17.43	266	50	0.162	ng	91
23) Phenanthrene	17.82	178	6139	0.196	ng	98
24) Anthracene	17.91	178	1914	0.058	ng	# 87
26) Fluoranthene	19.79	202	4986	0.124	ng	97
28) Pyrene	20.14	202	3563	0.088	ng	# 94
30) Benzo(a)anthracene	21.87	228	4919	0.136	ng	# 66
31) Chrysene	21.92	228	6336	0.159	ng	# 64
32) Bis(2-ethylhexyl)phthalate	21.75	149	6837	0.114	ng	99
33) Indeno(1,2,3-cd)pyrene	27.44	276	4535	0.139	ng	# 86
35) Benzo(b)fluoranthene	23.73	252	5092	0.151	ng	# 49
36) Benzo(k)fluoranthene	23.79	252	4600	0.134	ng	# 47
37) Benzo(a)pyrene	24.44	252	3877	0.131	ng	# 47
38) Dibenzo(a,h)anthracene	27.46	278	3742	0.137	ng	# 51
39) Benzo(g,h,i)perylene	28.33	276	4043	0.149	ng	# 58

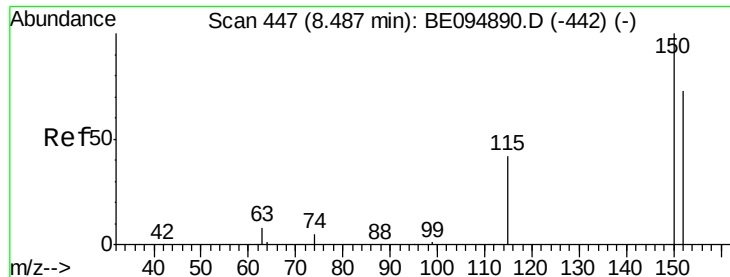
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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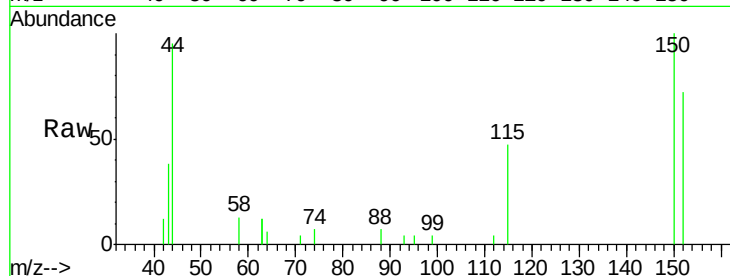


#1

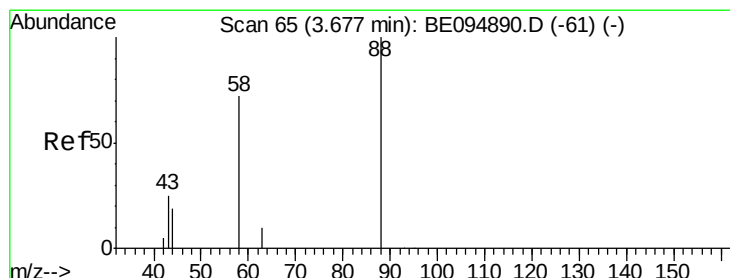
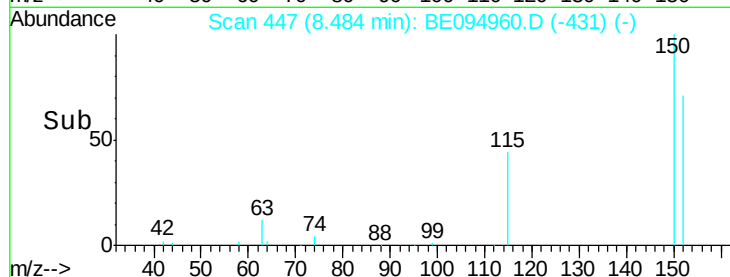
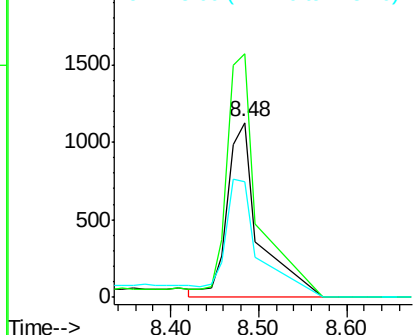
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.48 min Scan# 447
Delta R.T. -0.00 min
Lab File: BE094960.D
Acq: 8 Dec 2017 21:55

Instrument :
BNA_E
ClientSampleId :
FT-PZ-456S-20171204

Tot Ion:152 Resp: 3619
Ion Ratio Lower Upper
152 100
150 139.3 117.2 175.8
115 66.1 57.0 85.6



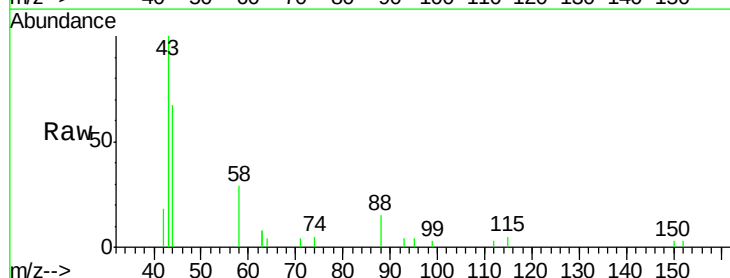
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



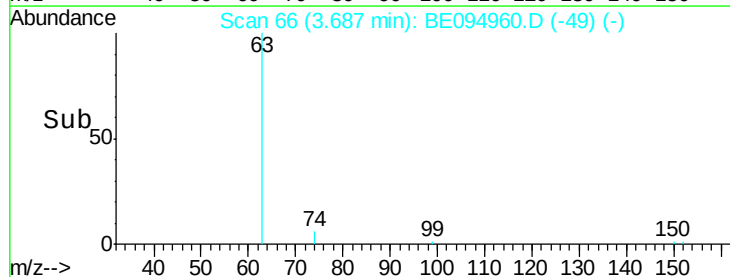
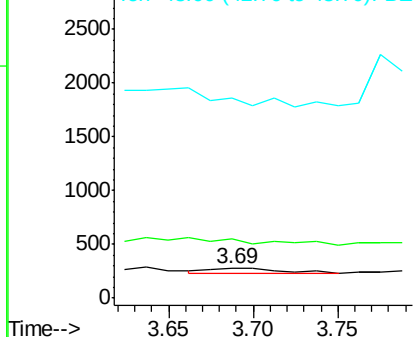
#2

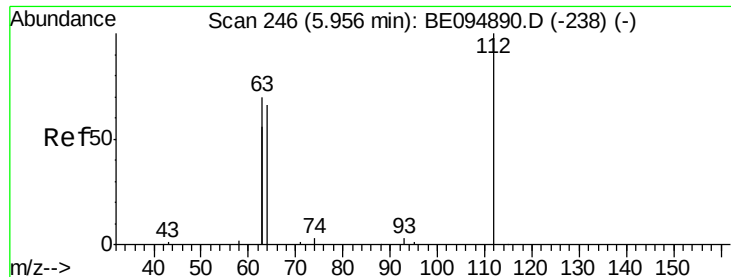
1,4-Dioxane
Concen: 0.039 ng
RT: 3.69 min Scan# 66
Delta R.T. 0.01 min
Lab File: BE094960.D
Acq: 8 Dec 2017 21:55

Tgt Ion: 88 Resp: 149
Ion Ratio Lower Upper
88 100
58 0.0 63.2 94.8#
43 0.0 41.2 61.8#



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





#4

2-Fluorophenol

Concen: 0.331 ng

RT: 5.95 min Scan# 246

Delta R.T. -0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456S-20171204

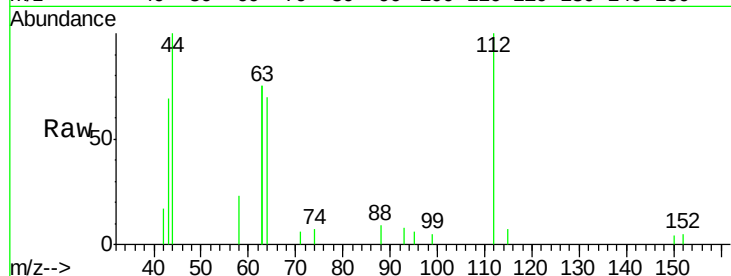
Tot Ion: 112 Resp: 1898

Ion Ratio Lower Upper

112 100

64 80.6 60.1 90.1

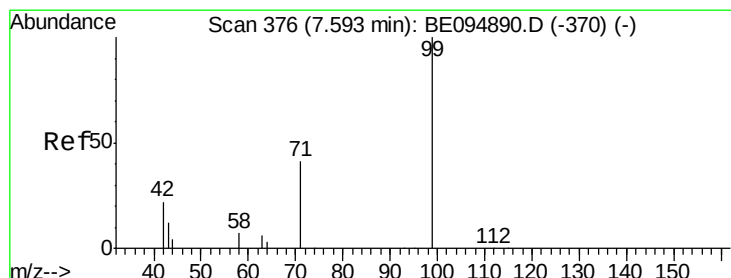
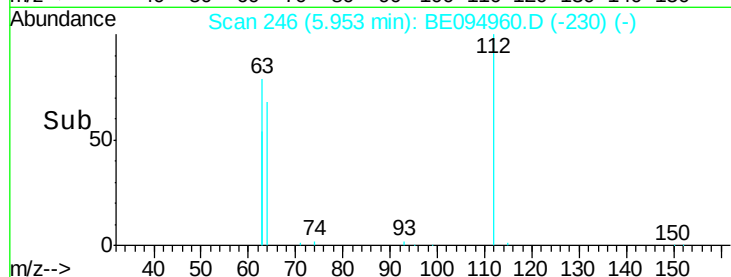
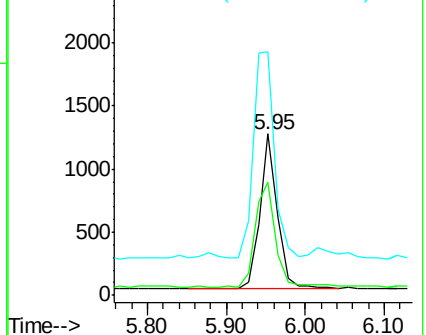
63 161.3 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): BE094890.D (-238) (-)

Ion 64.00 (63.70 to 64.70): BE094890.D (-238) (-)

Ion 63.00 (62.70 to 63.70): BE094890.D (-238) (-)



#5

Phenol-d6

Concen: 0.233 ng

RT: 7.60 min Scan# 377

Delta R.T. 0.01 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

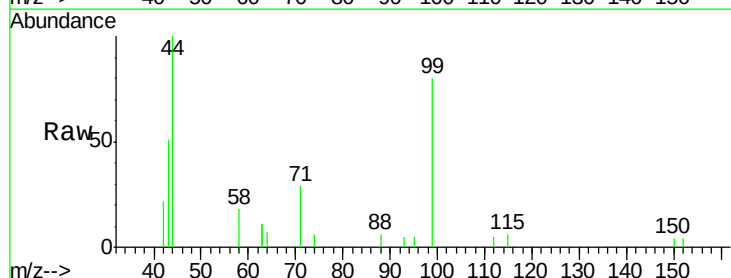
Tgt Ion: 99 Resp: 1977

Ion Ratio Lower Upper

99 100

42 26.8 20.2 30.2

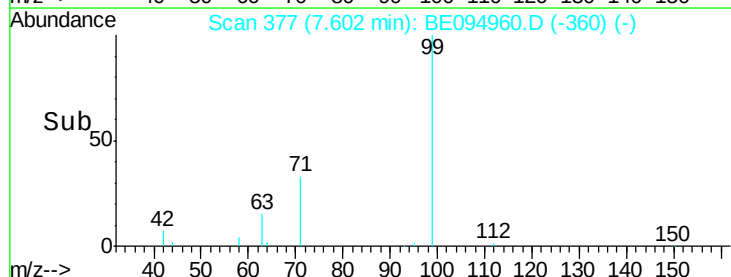
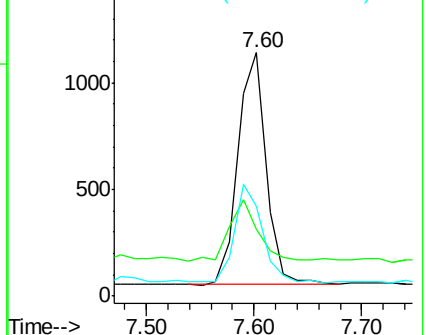
71 42.6 28.4 42.6#

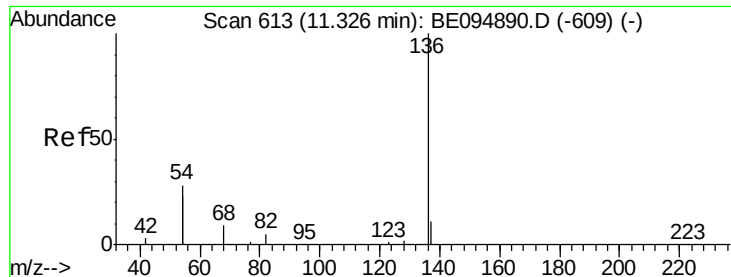


Abundance Ion 99.00 (98.70 to 99.70): BE094890.D (-370) (-)

Ion 42.00 (41.70 to 42.70): BE094890.D (-370) (-)

Ion 71.00 (70.70 to 71.70): BE094890.D (-370) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456S-20171204

Tot Ion:136 Resp: 7633

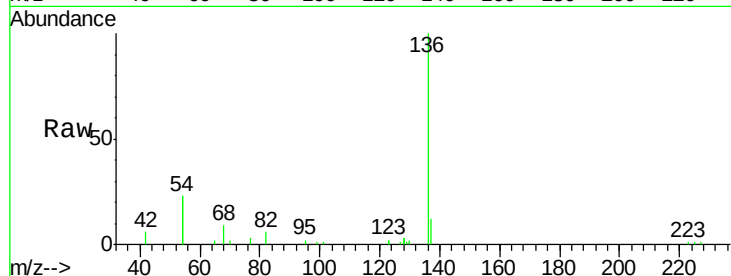
Ion Ratio Lower Upper

136 100

137 11.8 9.5 14.3

54 46.5 29.1 43.7#

68 9.3 6.2 9.2#

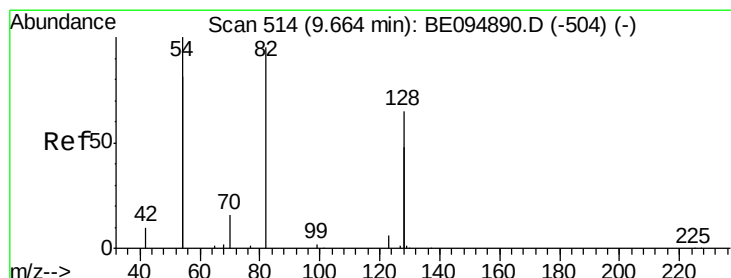
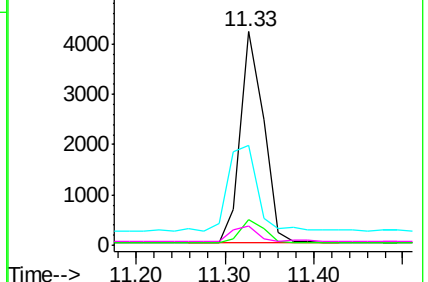
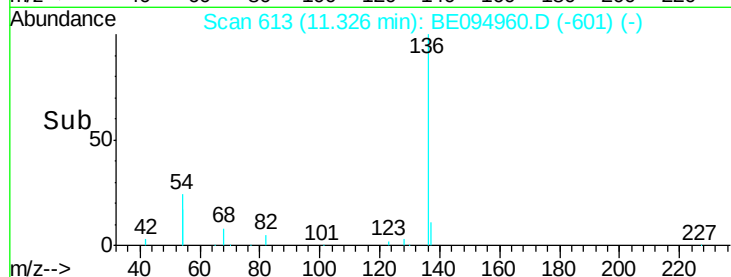


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 1.213 ng

RT: 9.66 min Scan# 514

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

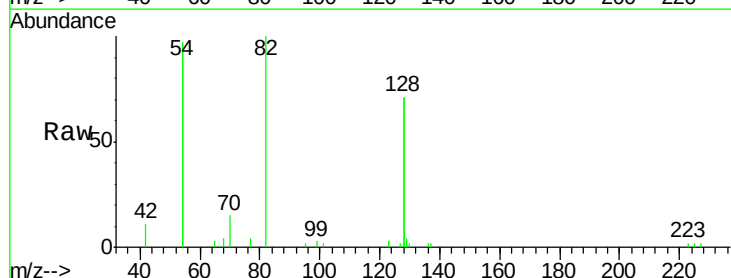
Tgt Ion: 82 Resp: 5480

Ion Ratio Lower Upper

82 100

128 142.4 150.0 225.0#

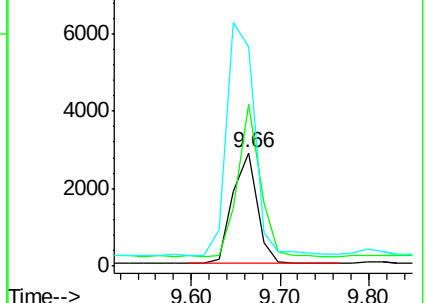
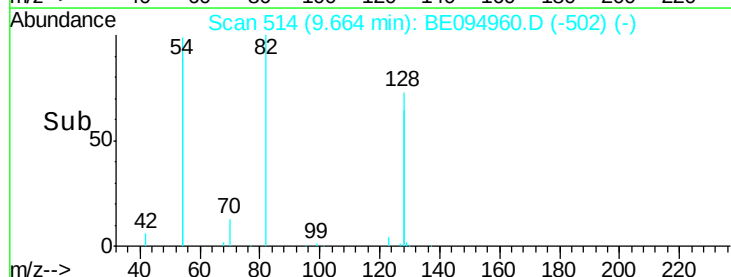
54 193.8 154.2 231.4

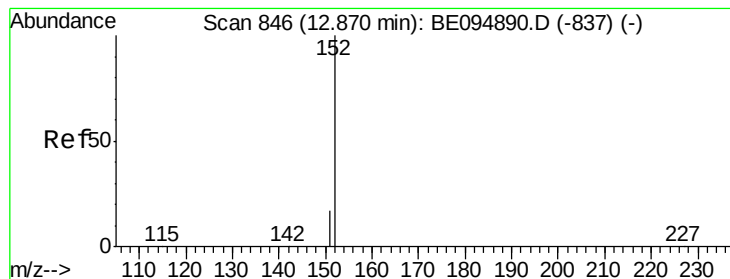


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.802 ng

RT: 12.87 min Scan# 846

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

Instrument :

BNA_E

ClientSampleId :

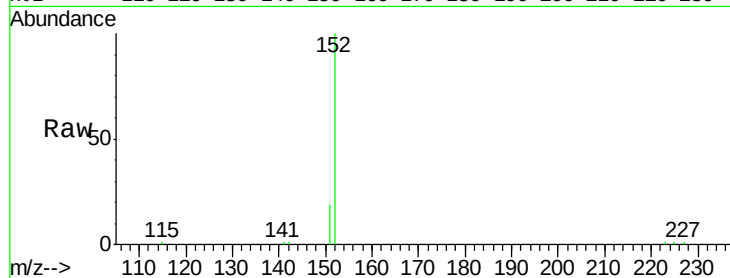
FT-PZ-456S-20171204

Tot Ion:152 Resp: 9771

Ion Ratio Lower Upper

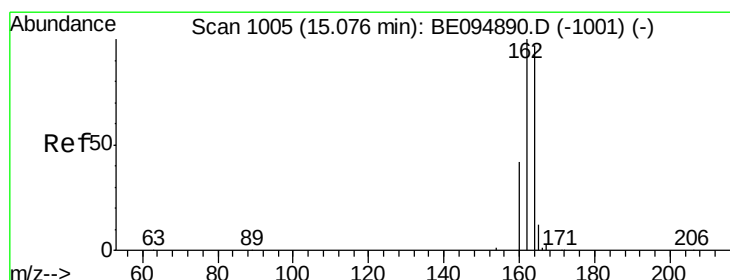
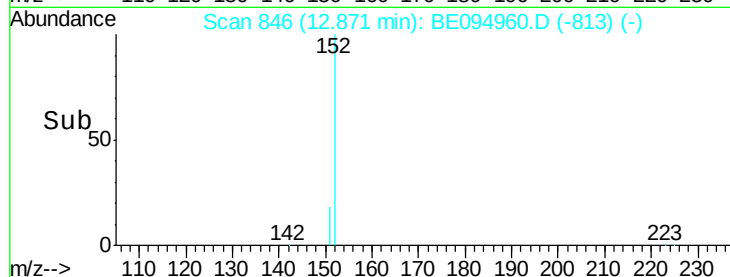
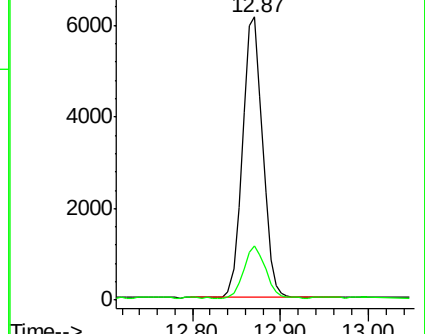
152 100

151 19.5 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.08 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

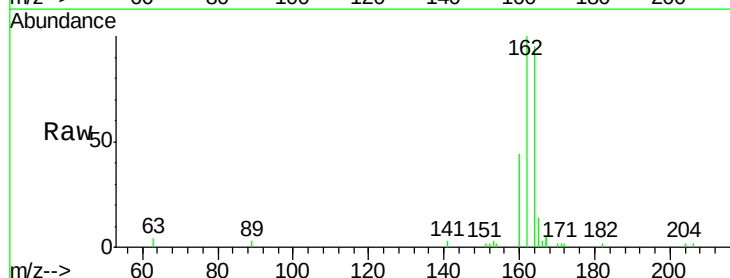
Tgt Ion:164 Resp: 4223

Ion Ratio Lower Upper

164 100

162 105.0 83.1 124.7

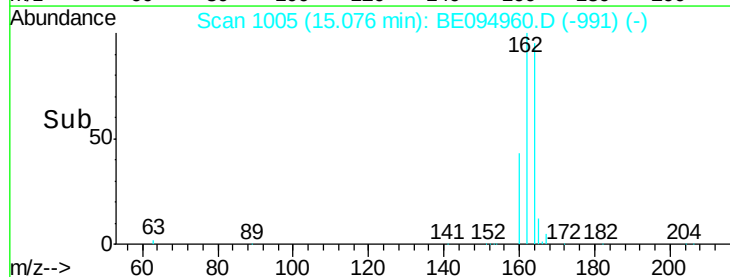
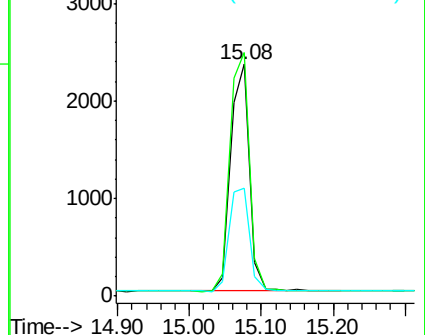
160 46.6 37.1 55.7

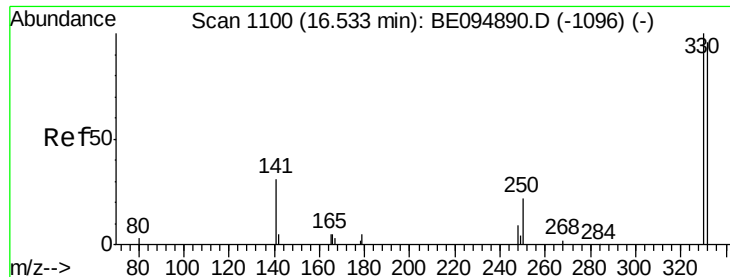


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#14

2,4,6-Tribromophenol

Concen: 0.850 ng

RT: 16.53 min Scan# 1100

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456S-20171204

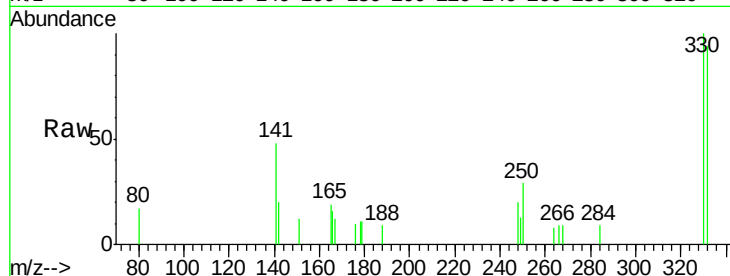
Tot Ion:330 Resp: 863

Ion Ratio Lower Upper

330 100

332 102.8 152.7 229.1#

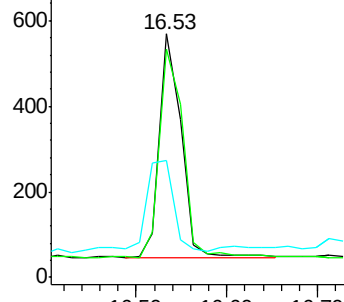
141 49.6 33.7 50.5



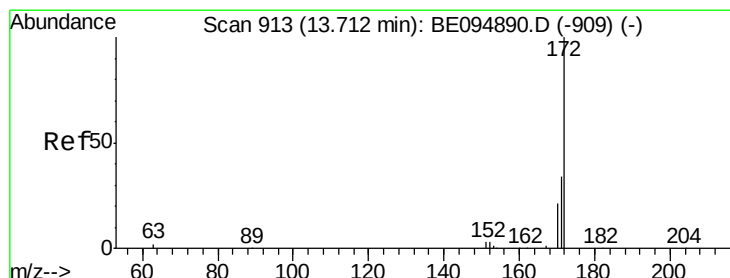
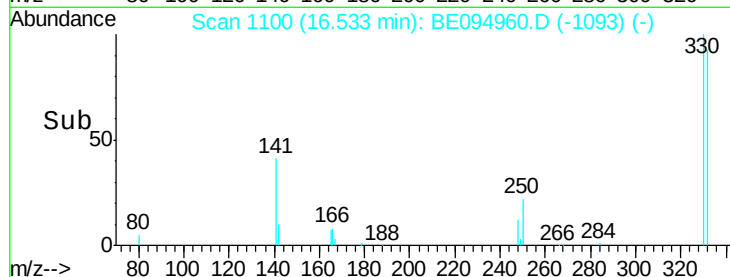
Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



Time-->



#15

2-Fluorobiphenyl

Concen: 1.359 ng

RT: 13.71 min Scan# 913

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

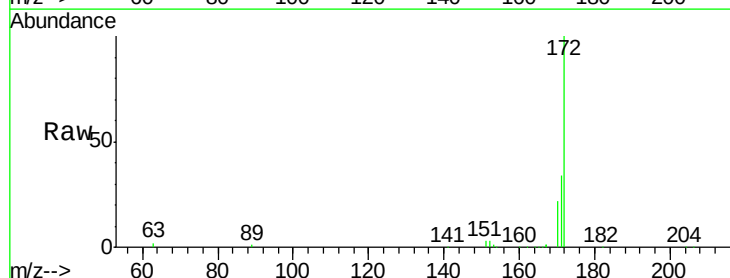
Tgt Ion:172 Resp: 24586

Ion Ratio Lower Upper

172 100

171 34.0 29.9 44.9

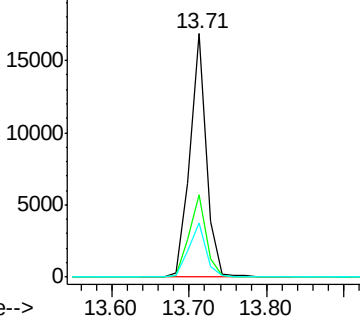
170 22.1 21.8 32.8



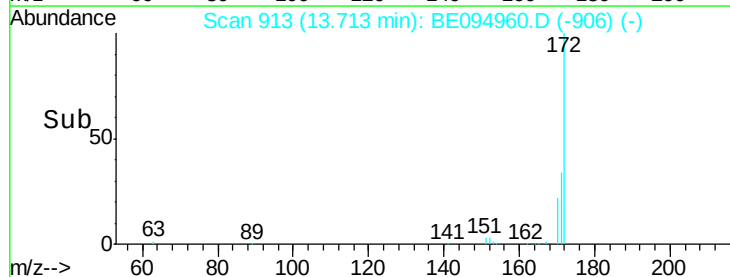
Abundance Ion 172.00 (171.70 to 172.70): E

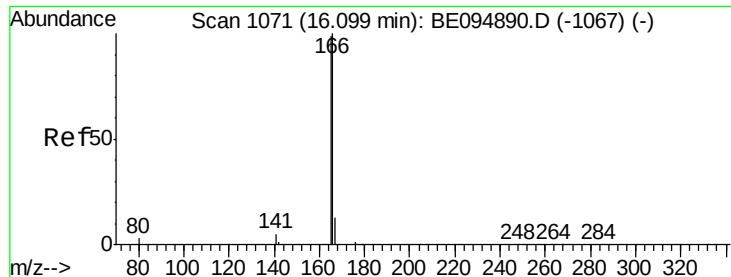
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



Time-->





#18

Fluorene

Concen: 0.034 ng

RT: 16.10 min Scan# 1071

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

Instrument :

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ClientSampleId :

FT-PZ-456S-20171204

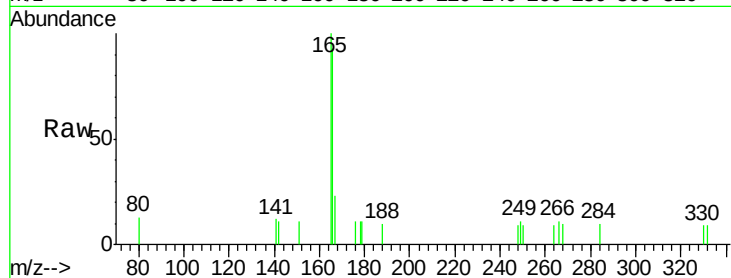
Tot Ion:166 Resp: 669

Ion Ratio Lower Upper

166 100

165 97.3 77.8 116.6

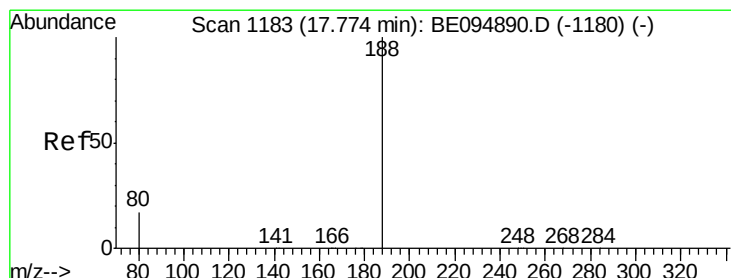
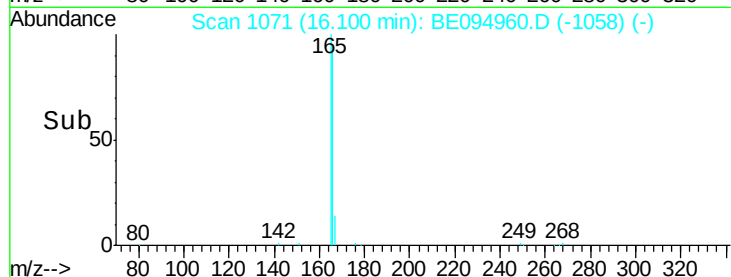
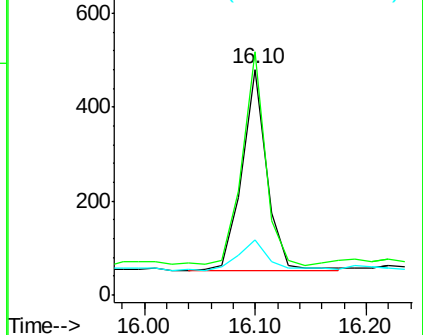
167 17.8 42.4 63.6#



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.77 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

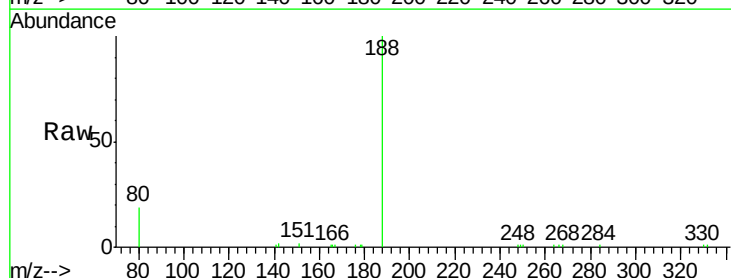
Tgt Ion:188 Resp: 9841

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

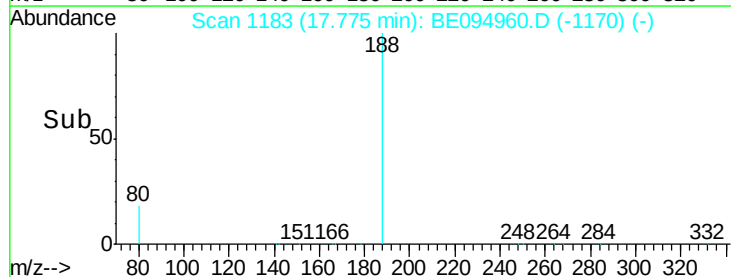
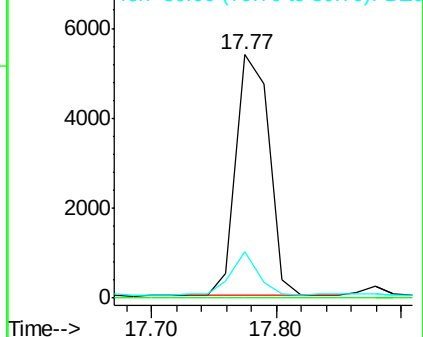
80 19.2 3.6 5.4#

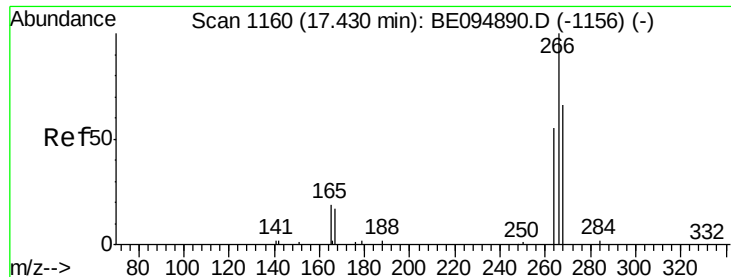


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

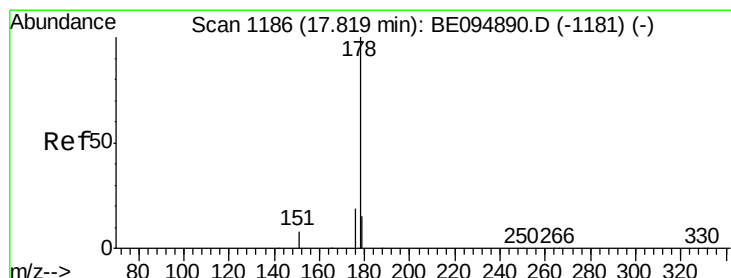
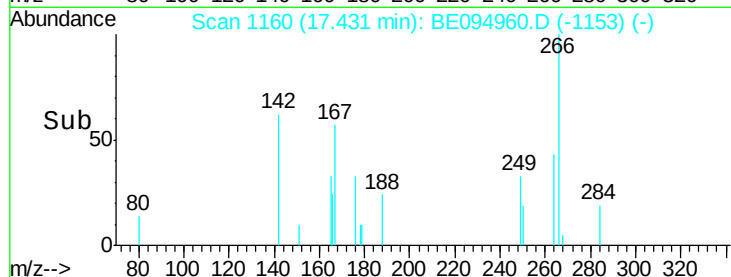
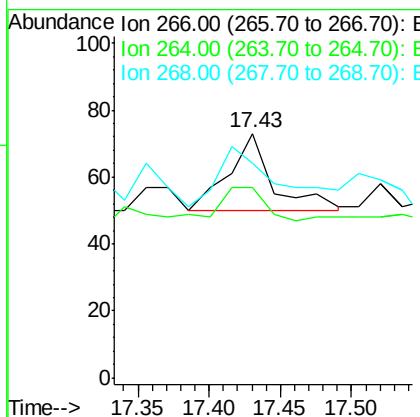
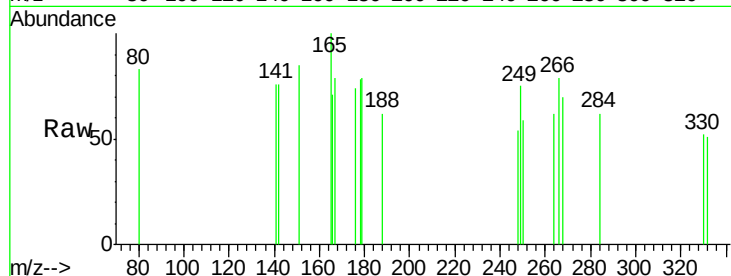




#22
 Pentachlorophenol
 Concen: 0.162 ng
 RT: 17.43 min Scan# 1160
 Delta R.T. 0.00 min
 Lab File: BE094960.D
 Acq: 8 Dec 2017 21:55

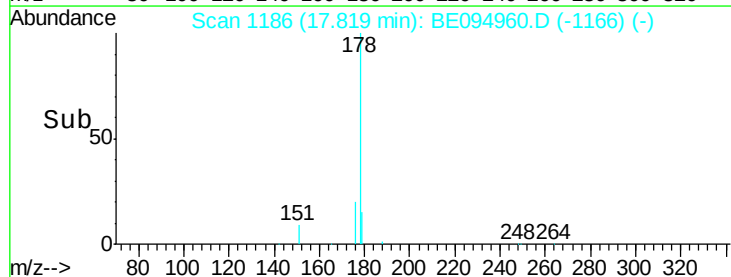
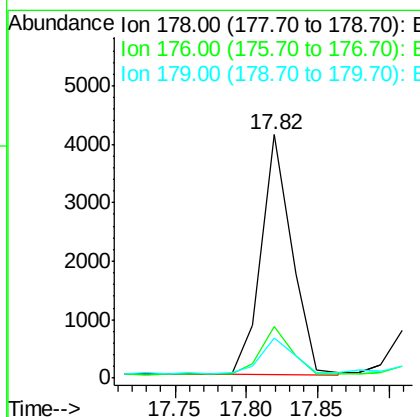
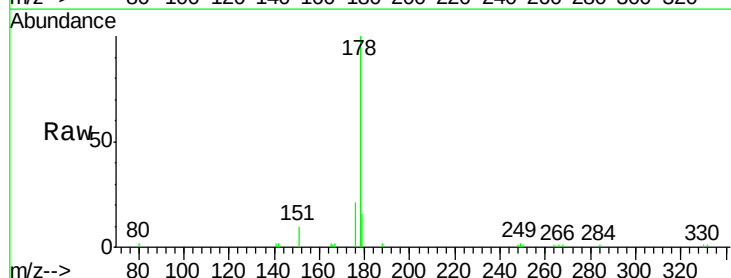
Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-456S-20171204

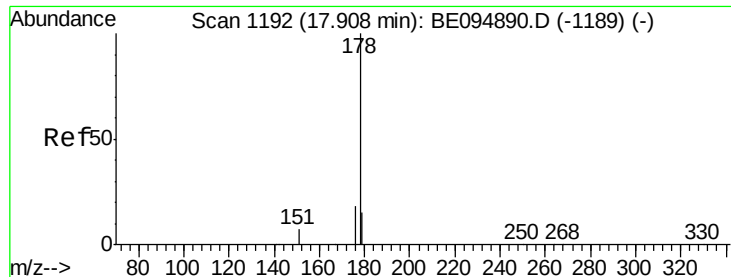
Tot Ion:266 Resp: 50
 Ion Ratio Lower Upper
 266 100
 264 78.1 72.5 108.7
 268 87.7 73.8 110.6



#23
 Phenanthrene
 Concen: 0.196 ng
 RT: 17.82 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: BE094960.D
 Acq: 8 Dec 2017 21:55

Tgt Ion:178 Resp: 6139
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.1 22.7
 179 15.6 11.8 17.6





#24

Anthracene

Concen: 0.058 ng

RT: 17.91 min Scan# 1192

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456S-20171204

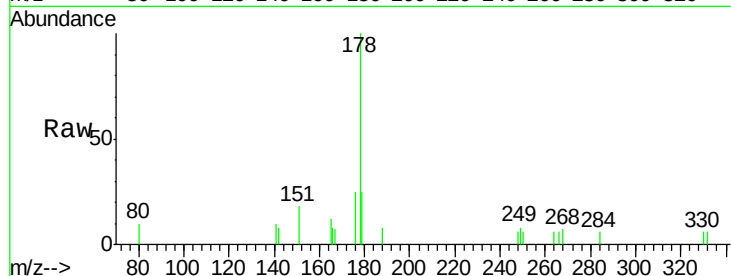
Tot Ion:178 Resp: 1914

Ion Ratio Lower Upper

178 100

176 10.4 12.8 19.2#

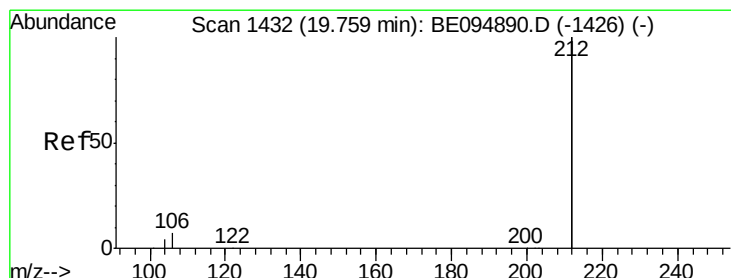
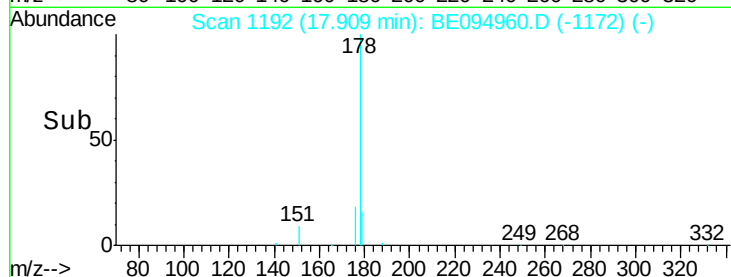
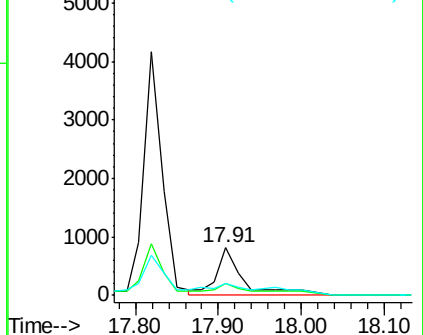
179 10.9 13.0 19.6#



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



#25

Fluoranthene-d10

Concen: 0.807 ng

RT: 19.76 min Scan# 1432

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

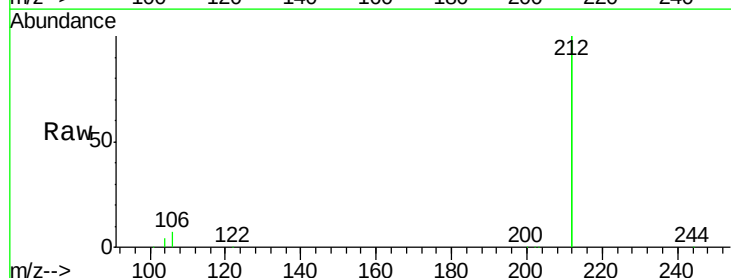
Tgt Ion:212 Resp: 108476

Ion Ratio Lower Upper

212 100

106 3.3 2.8 4.2

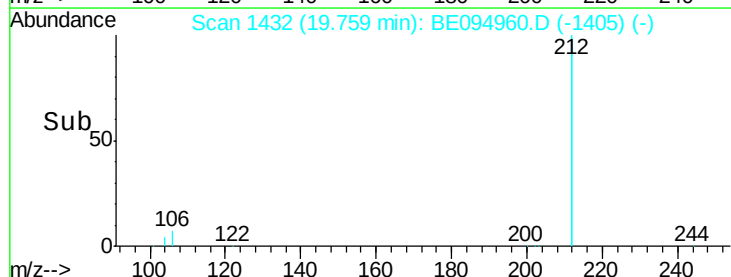
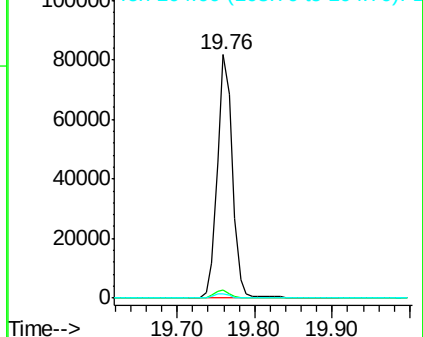
104 1.9 1.6 2.4

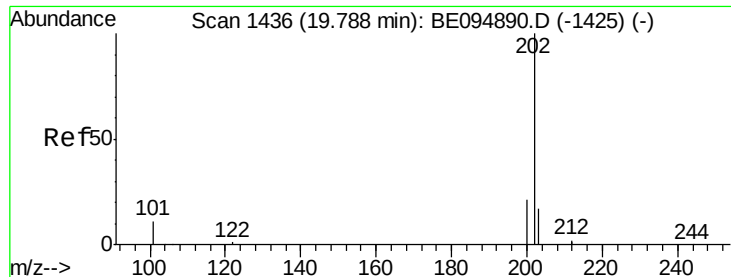


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

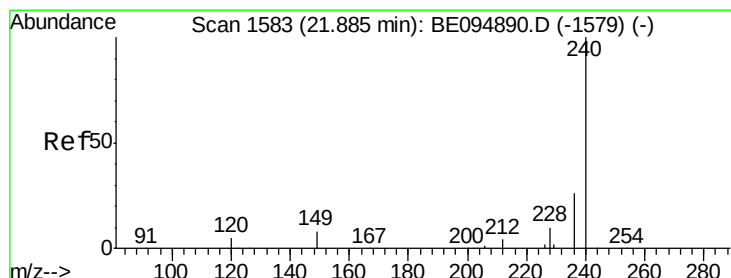
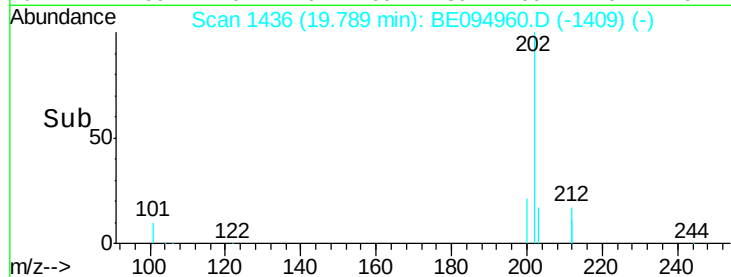
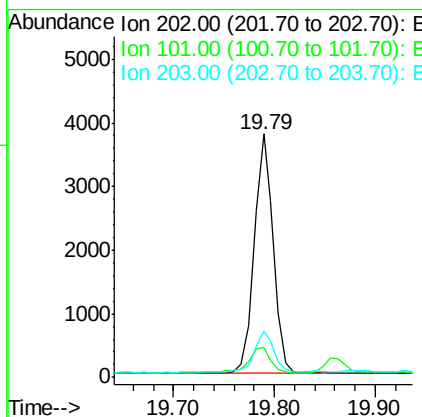
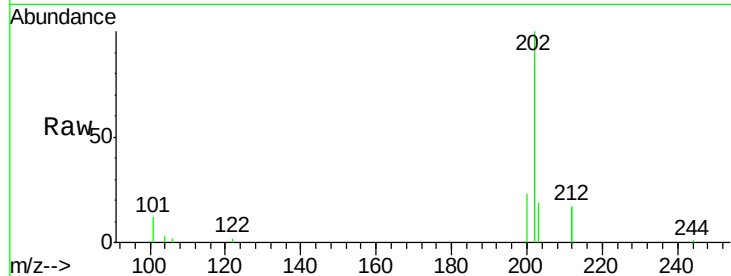




#26
 Fluoranthene
 Concen: 0.124 ng
 RT: 19.79 min Scan# 1436
 Delta R.T. 0.00 min
 Lab File: BE094960.D
 Acq: 8 Dec 2017 21:55

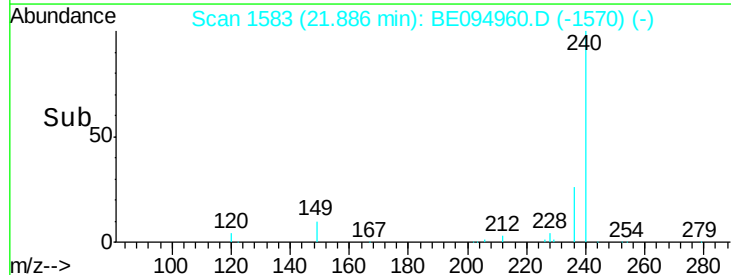
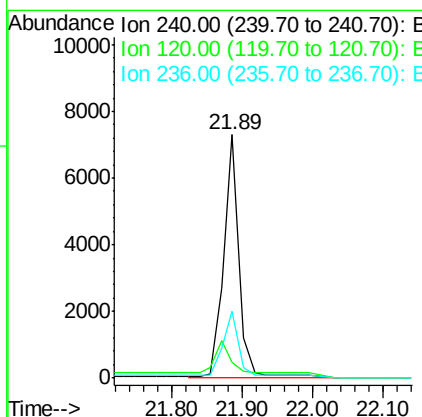
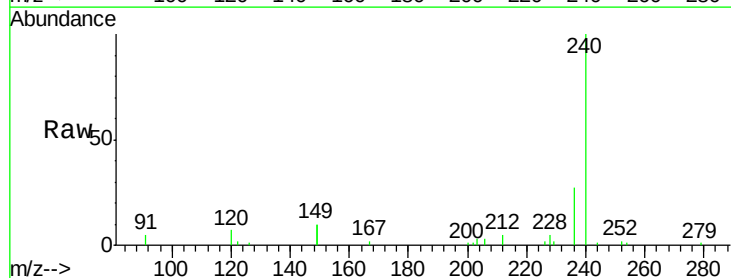
Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-456S-20171204

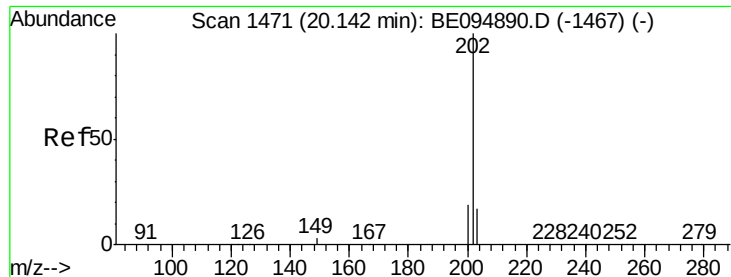
Tot Ion:202 Resp: 4986
 Ion Ratio Lower Upper
 202 100
 101 13.1 9.8 14.8
 203 18.6 13.7 20.5



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.89 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: BE094960.D
 Acq: 8 Dec 2017 21:55

Tgt Ion:240 Resp: 11757
 Ion Ratio Lower Upper
 240 100
 120 6.6 5.5 8.3
 236 27.3 20.7 31.1

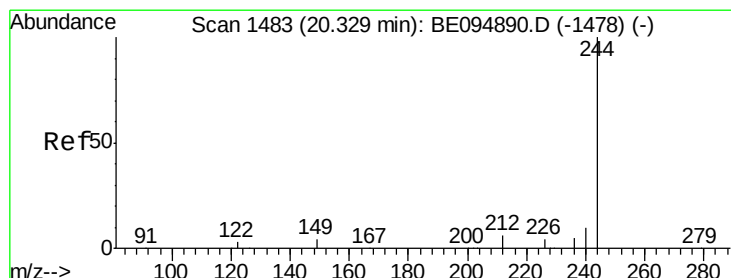
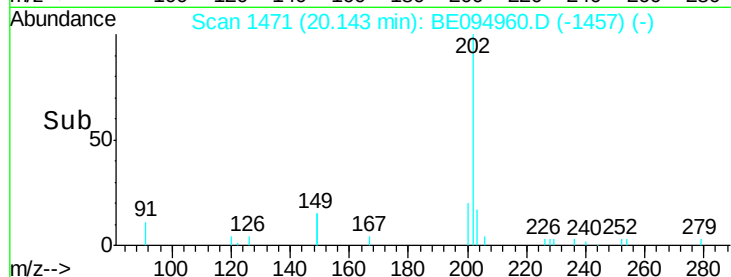
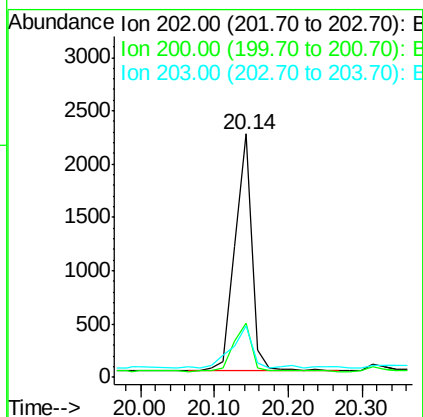
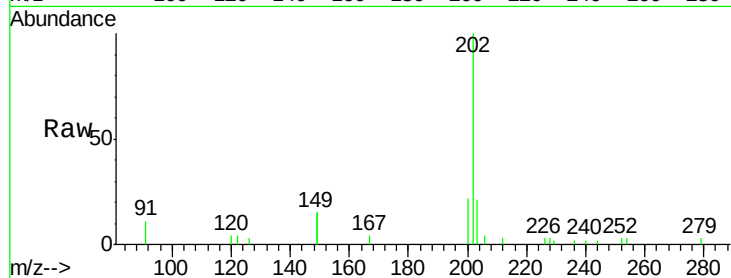




#28
Pvrene
Concen: 0.088 ng
RT: 20.14 min Scan# 1471
Delta R.T. 0.00 min
Lab File: BE094960.D
Acq: 8 Dec 2017 21:55

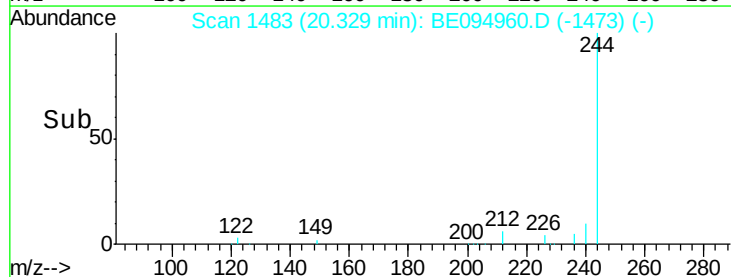
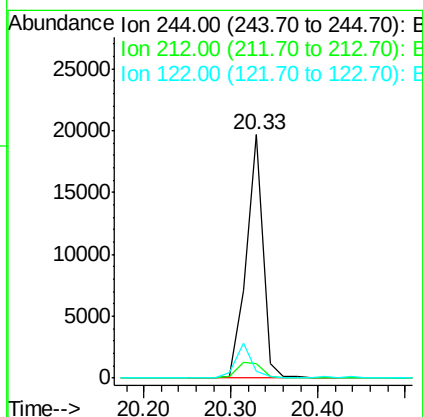
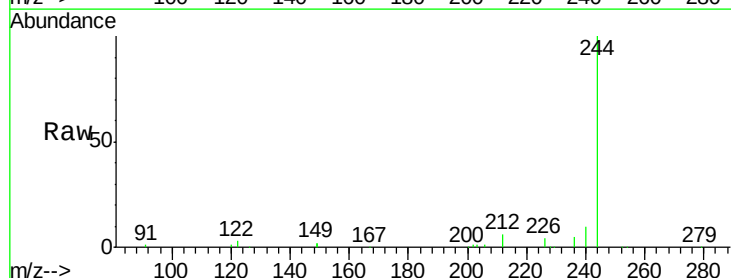
Instrument :
BNA_E
ClientSampleId :
FT-PZ-456S-20171204

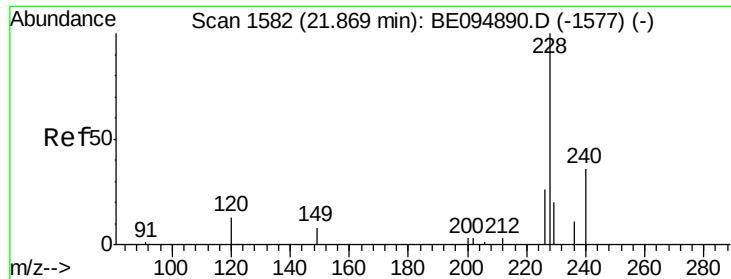
Tot Ion:202 Resp: 3563
Ion Ratio Lower Upper
202 100
200 22.2 16.6 25.0
203 21.0 13.8 20.8#



#29
Terphenyl-d14
Concen: 1.206 ng
RT: 20.33 min Scan# 1483
Delta R.T. 0.00 min
Lab File: BE094960.D
Acq: 8 Dec 2017 21:55

Tgt Ion:244 Resp: 26188
Ion Ratio Lower Upper
244 100
212 6.0 25.4 38.0#
122 3.0 8.1 12.1#





#30

Benzo(a)anthracene

Concen: 0.136 ng

RT: 21.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456S-20171204

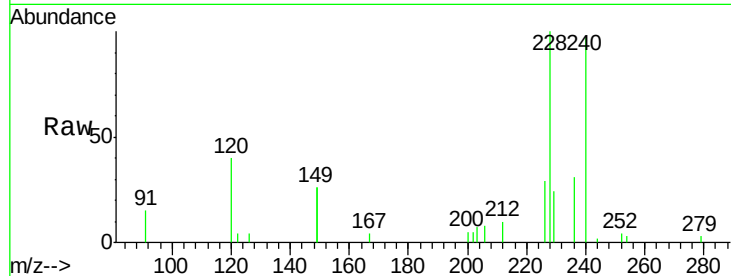
Tot Ion:228 Resp: 4919

Ion Ratio Lower Upper

228 100

226 29.5 40.0 60.0#

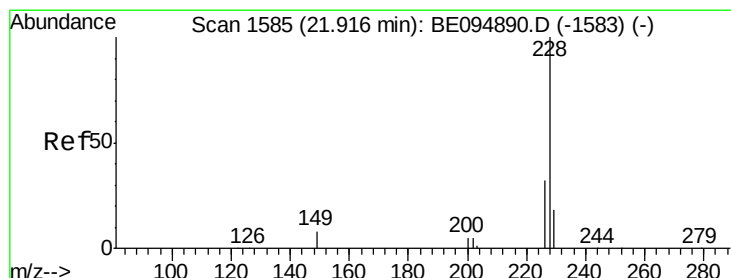
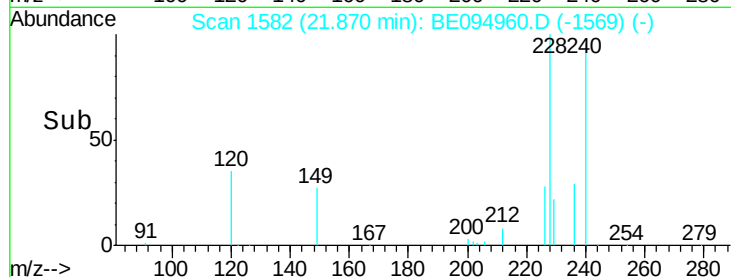
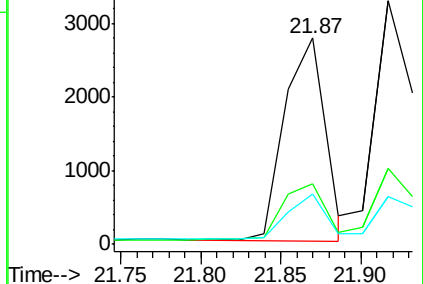
229 24.1 40.0 60.0#



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



#31

Chrysene

Concen: 0.159 ng

RT: 21.92 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

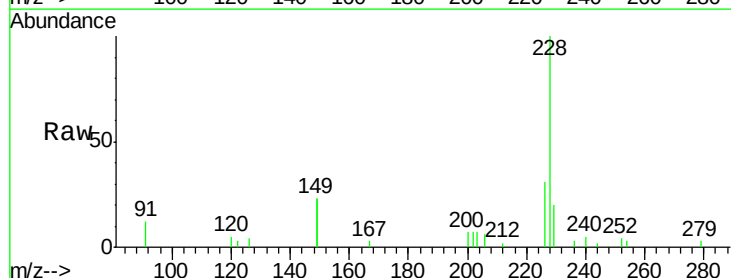
Tgt Ion:228 Resp: 6336

Ion Ratio Lower Upper

228 100

226 31.4 40.0 60.0#

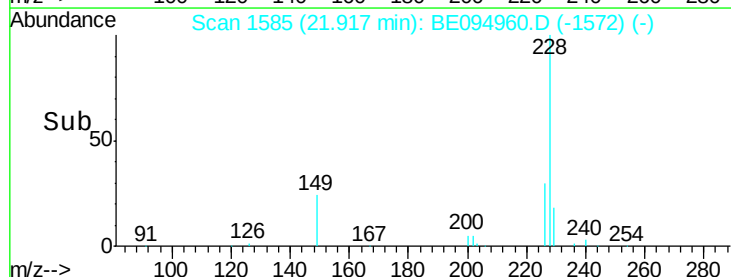
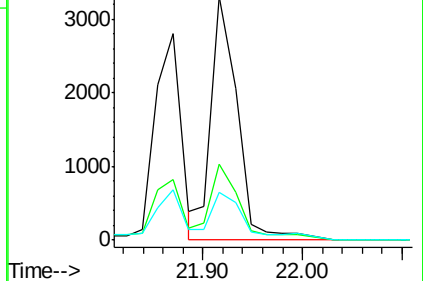
229 19.5 40.0 60.0#

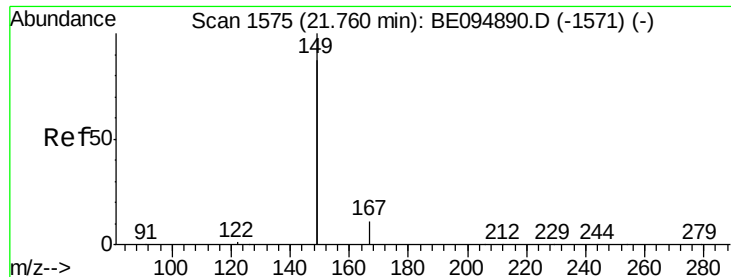


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.114 ng

RT: 21.75 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456S-20171204

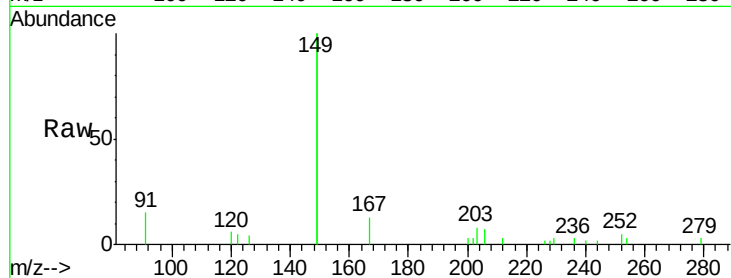
Tot Ion:149 Resp: 6837

Ion Ratio Lower Upper

149 100

167 6.5 5.4 8.0

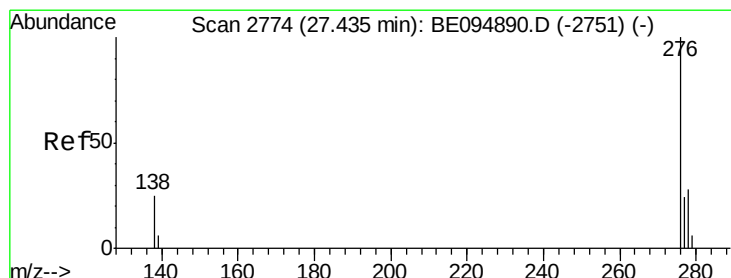
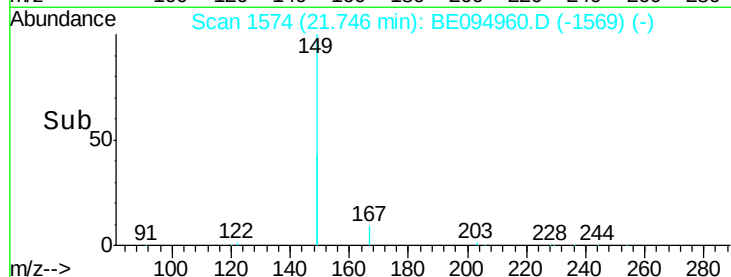
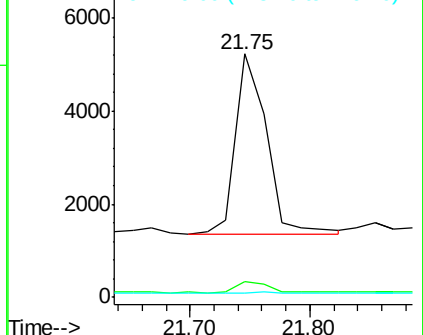
279 0.8 0.7 1.1



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.139 ng

RT: 27.44 min Scan# 2776

Delta R.T. 0.01 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

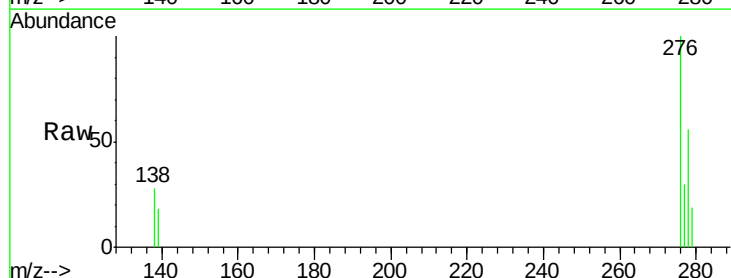
Tgt Ion:276 Resp: 4535

Ion Ratio Lower Upper

276 100

138 15.2 22.5 33.7#

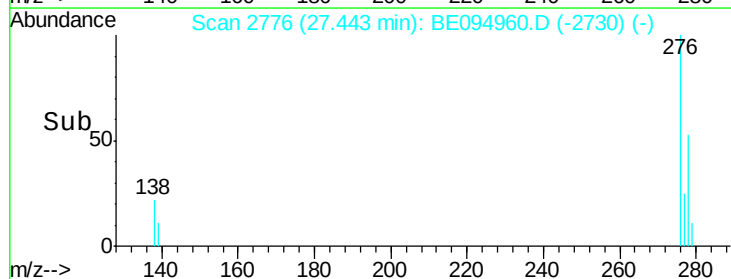
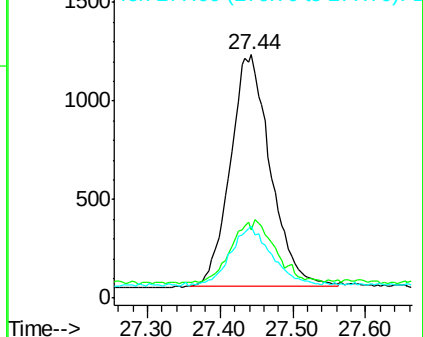
277 26.5 19.9 29.9

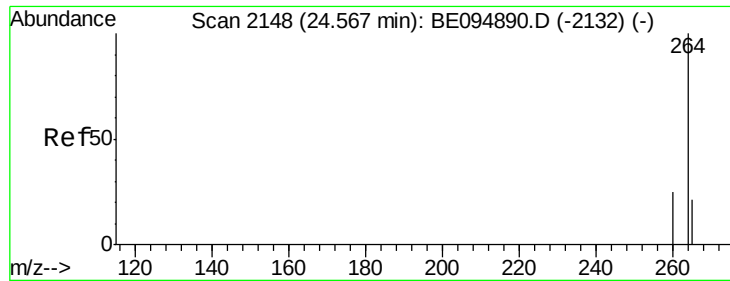


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

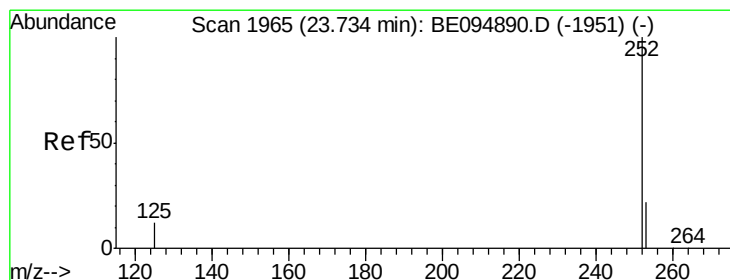
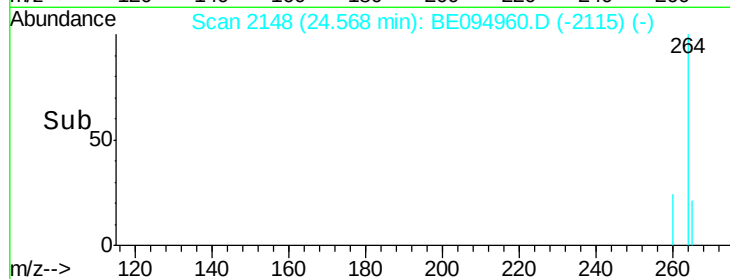
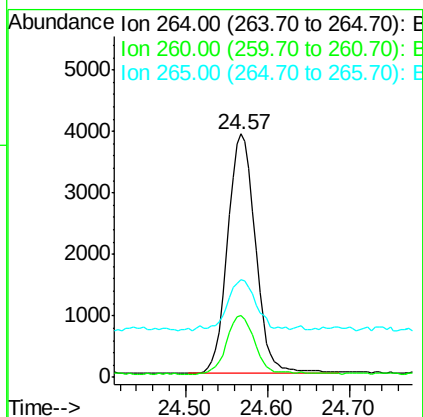
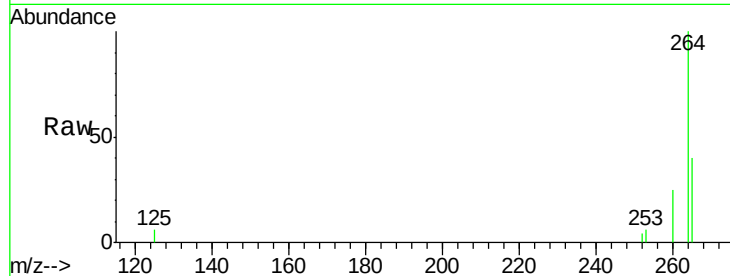




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 24.57 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: BE094960.D
 Acq: 8 Dec 2017 21:55

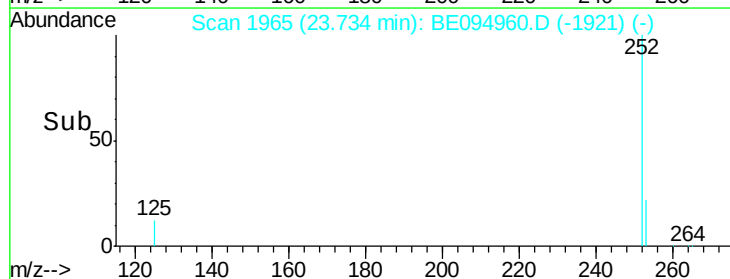
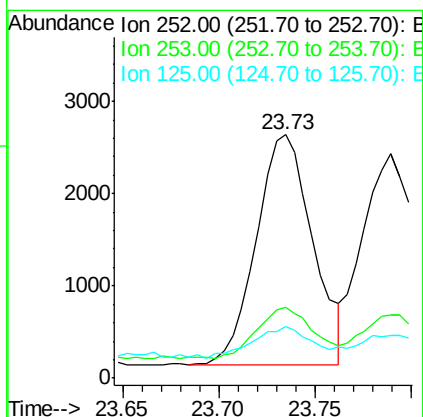
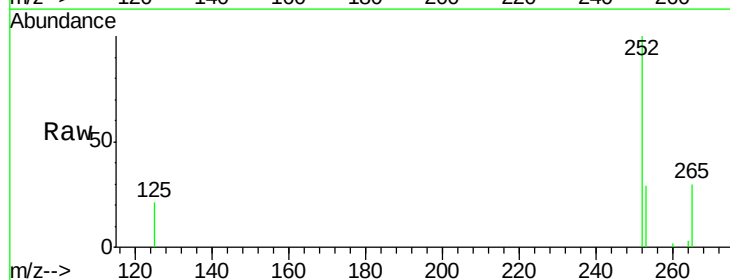
Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-456S-20171204

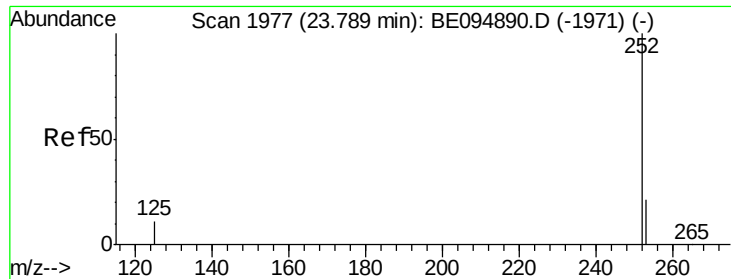
Tot Ion:264 Resp: 9213
 Ion Ratio Lower Upper
 264 100
 260 25.3 20.5 30.7
 265 40.2 22.8 34.2#



#35
 Benzo(b)fluoranthene
 Concen: 0.151 ng
 RT: 23.73 min Scan# 1965
 Delta R.T. 0.00 min
 Lab File: BE094960.D
 Acq: 8 Dec 2017 21:55

Tgt Ion:252 Resp: 5092
 Ion Ratio Lower Upper
 252 100
 253 28.9 48.0 72.0#
 125 21.1 56.0 84.0#





#36

Benzo(k)fluoranthene

Concen: 0.134 ng

RT: 23.79 min Scan# 1977

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456S-20171204

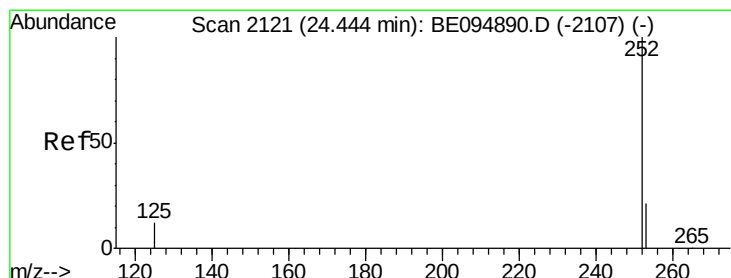
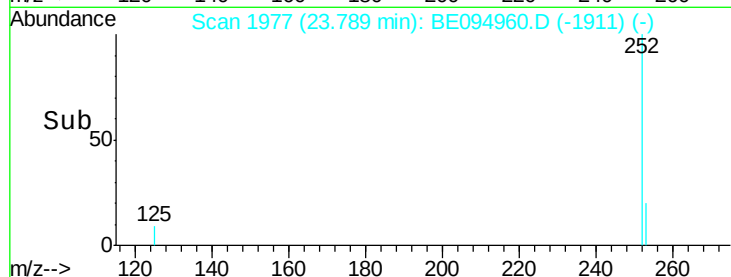
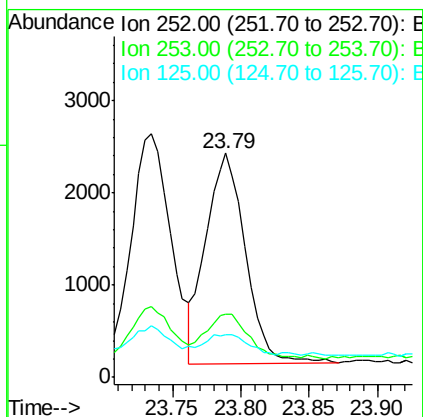
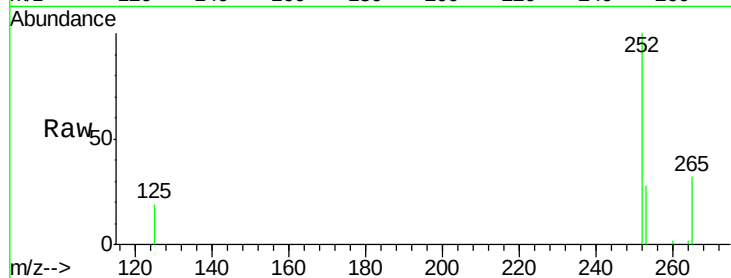
Tot Ion:252 Resp: 4600

Ion Ratio Lower Upper

252 100

253 28.1 48.0 72.0#

125 19.2 56.0 84.0#



#37

Benzo(a)pyrene

Concen: 0.131 ng

RT: 24.44 min Scan# 2121

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

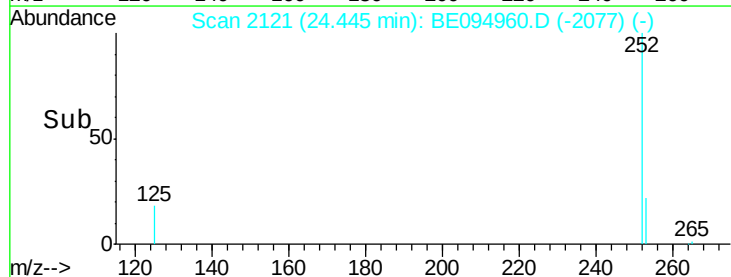
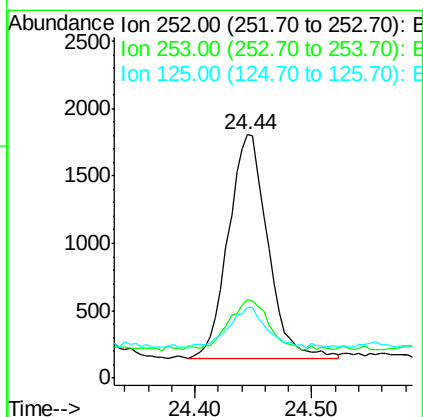
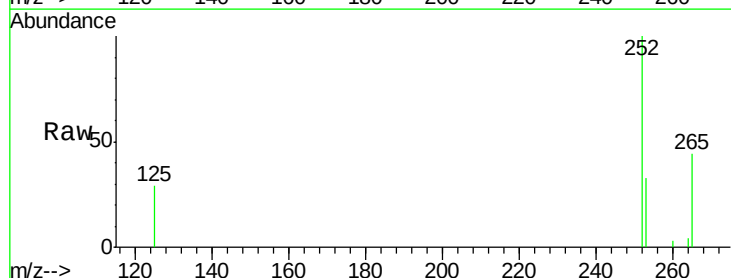
Tgt Ion:252 Resp: 3877

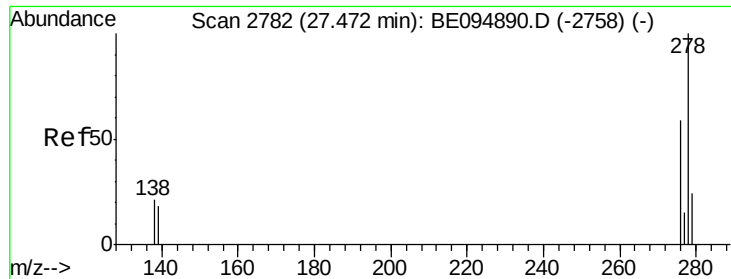
Ion Ratio Lower Upper

252 100

253 32.5 52.0 78.0#

125 29.1 68.0 102.0#





#38

Dibenzo(a,h)anthracene

Concen: 0.137 ng

RT: 27.46 min Scan# 2780

Delta R.T. -0.01 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

Instrument :

BNA_E

ClientSampleId :

FT-PZ-456S-20171204

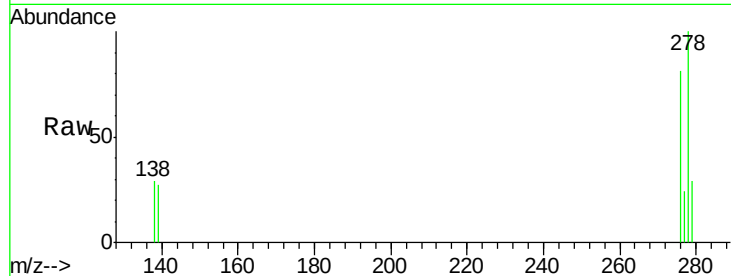
Tot Ion:278 Resp: 3742

Ion Ratio Lower Upper

278 100

139 26.9 56.0 84.0#

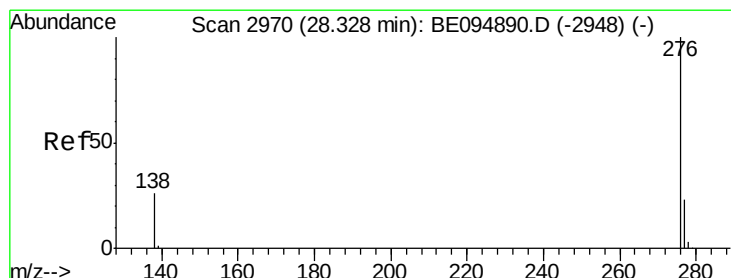
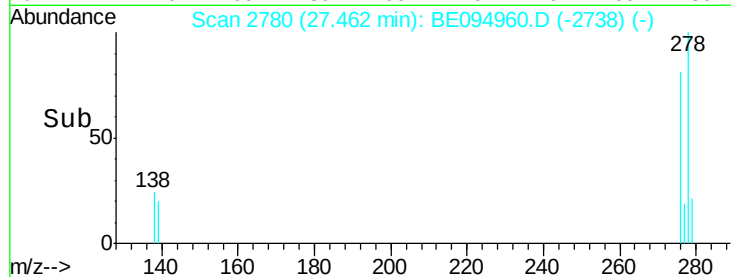
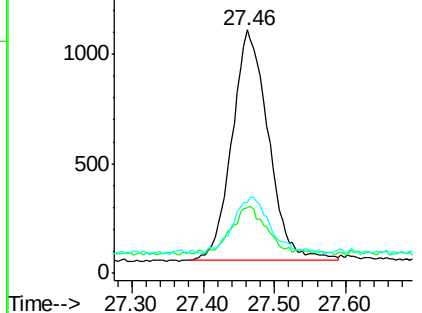
279 29.0 52.0 78.0#



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



#39

Benzo(g,h,i)perylene

Concen: 0.149 ng

RT: 28.33 min Scan# 2971

Delta R.T. 0.00 min

Lab File: BE094960.D

Acq: 8 Dec 2017 21:55

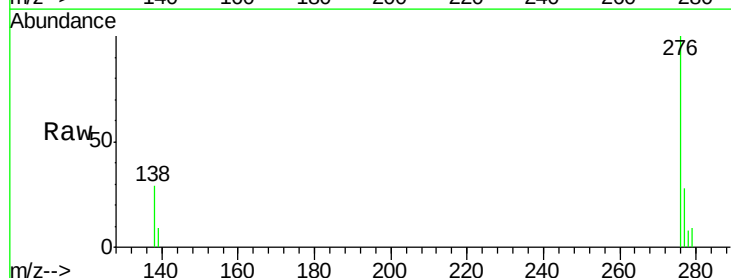
Tgt Ion:276 Resp: 4043

Ion Ratio Lower Upper

276 100

277 27.9 52.0 78.0#

138 29.3 44.0 66.0#



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

