

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE091218\  
 Data File : BE097453.D  
 Acq On : 12 Sep 2018 14:31  
 Operator : SJ/JU  
 Sample : J4688-19MS  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Sep 13 01:17:51 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE082918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 13 01:16:50 2018  
 Response via : Initial Calibration

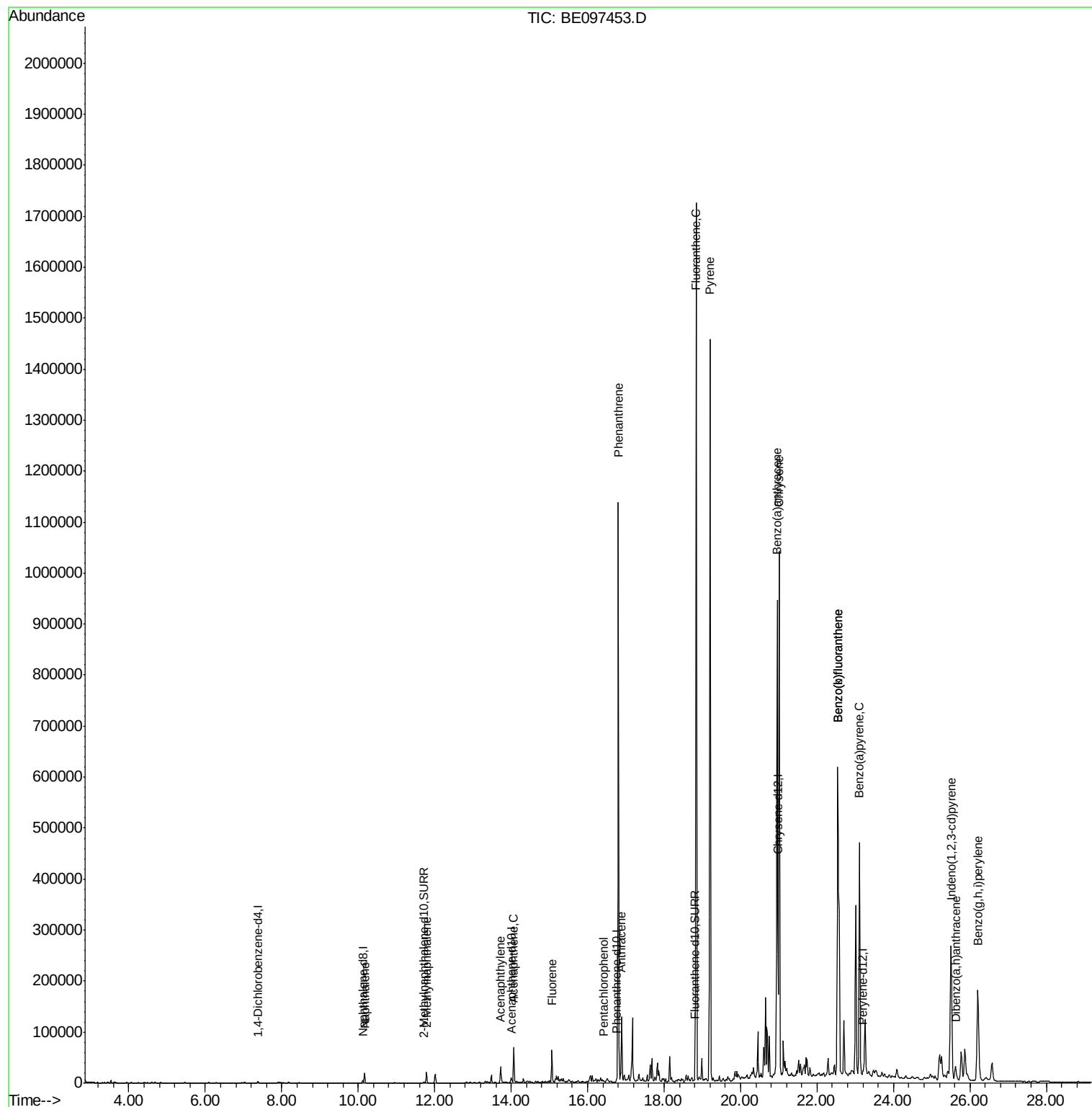
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.38  | 152  | 951      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.12 | 136  | 5348     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.01 | 164  | 3923     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.76 | 188  | 9527     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 20.97 | 240  | 10915    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.20 | 264  | 12978    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.71 | 152  | 1659     | 0.20   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.80 | 212  | 6236     | 0.20   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.17 | 128  | 27300    | 2.094  | ng/ul# | 91       |
| 5) 2-Methylnaphthalene      | 11.79 | 142  | 17727    | 2.151  | ng/ul  | 97       |
| 7) Acenaphthylene           | 13.72 | 152  | 45101    | 3.156  | ng/ul  | 97       |
| 8) Acenaphthene             | 14.07 | 153  | 39781    | 3.236  | ng/ul  | 97       |
| 9) Fluorene                 | 15.07 | 166  | 38438    | 2.730  | ng/ul  | 95       |
| 11) Pentachlorophenol       | 16.43 | 266  | 361      | 0.385  | ng/ul  | 98       |
| 12) Phenanthrene            | 16.80 | 178  | 1190502  | 48.544 | ng/ul# | 88       |
| 13) Anthracene              | 16.89 | 178  | 128843   | 6.249  | ng/ul# | 92       |
| 15) Fluoranthene            | 18.84 | 202  | 1941653  | 61.629 | ng/ul  | 84       |
| 17) Pyrene                  | 19.20 | 202  | 1670528  | 56.875 | ng/ul# | 83       |
| 18) Benzo(a)anthracene      | 20.96 | 228  | 760697   | 27.130 | ng/ul# | 84       |
| 19) Chrysene                | 21.01 | 228  | 880608   | 27.259 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.54 | 252  | 1350431  | 38.856 | ng/ul  | 84       |
| 22) Benzo(k)fluoranthene    | 22.54 | 252  | 1350431  | 34.844 | ng/ul# | 86       |
| 23) Benzo(a)pyrene          | 23.11 | 252  | 617717   | 19.212 | ng/ul# | 77       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.51 | 276  | 430033   | 10.319 | ng/ul# | 71       |
| 25) Dibenzo(a,h)anthracene  | 25.62 | 278  | 38734    | 1.097  | ng/ul  | 97       |
| 26) Benzo(g,h,i)perylene    | 26.21 | 276  | 391603   | 11.022 | ng/ul# | 90       |

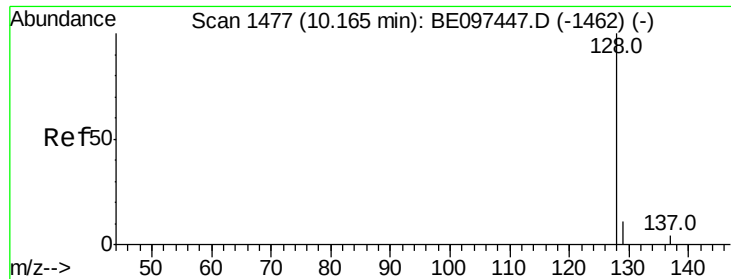
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE091218\  
Data File : BE097453.D  
Acq On : 12 Sep 2018 14:31  
Operator : SJ/JU  
Sample : J4688-19MS  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :

Quant Time: Sep 13 01:17:51 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE082918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 13 01:16:50 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 2.094 ng/ul

RT: 10.17 min Scan# 1478

Delta R.T. 0.00 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

Instrument :

BNA\_E

ClientSampleId :

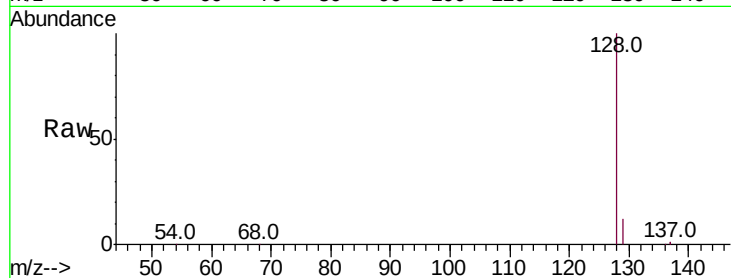
Tot Ion:128 Resp: 27300

Ion Ratio Lower Upper

128 100

129 11.5 11.3 16.9

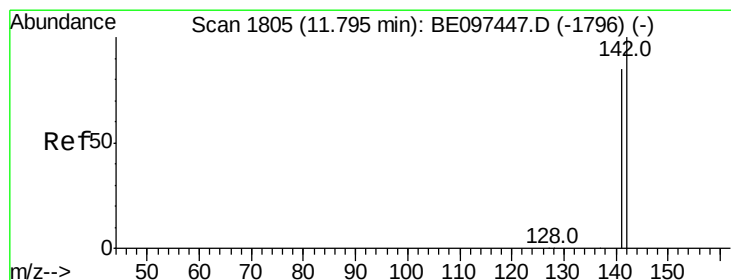
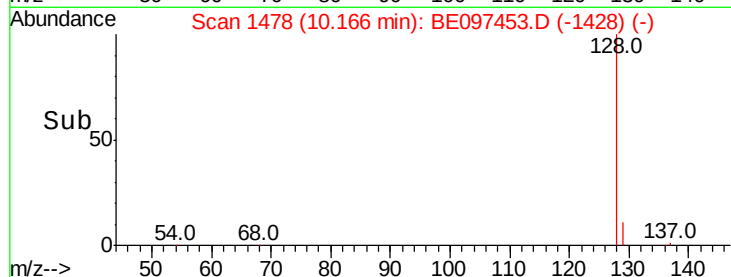
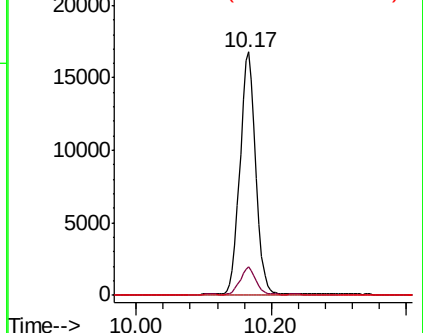
127 0.0 4.0 6.0#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 2.151 ng/ul

RT: 11.79 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BE097453.D

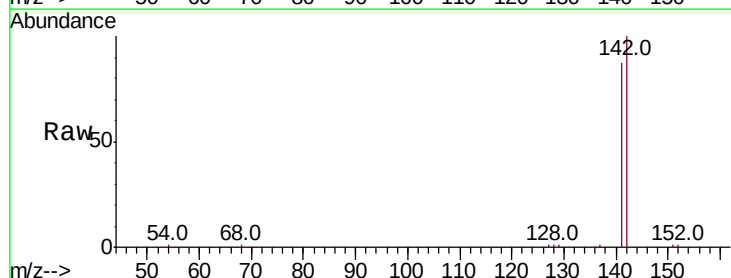
Acq: 12 Sep 2018 14:31

Tgt Ion:142 Resp: 17727

Ion Ratio Lower Upper

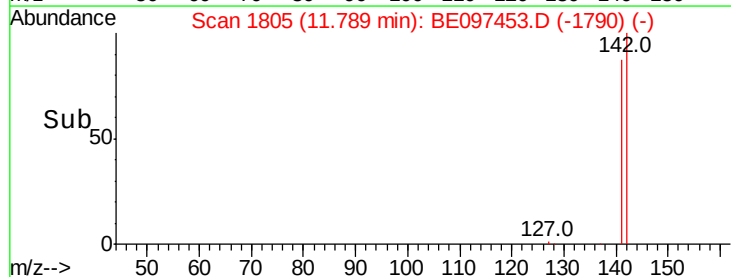
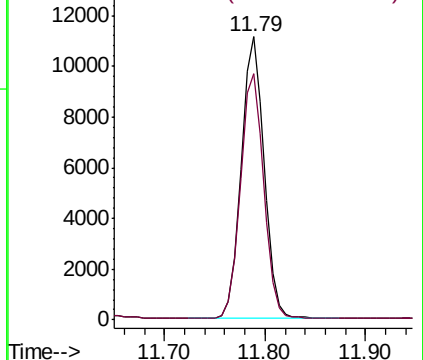
142 100

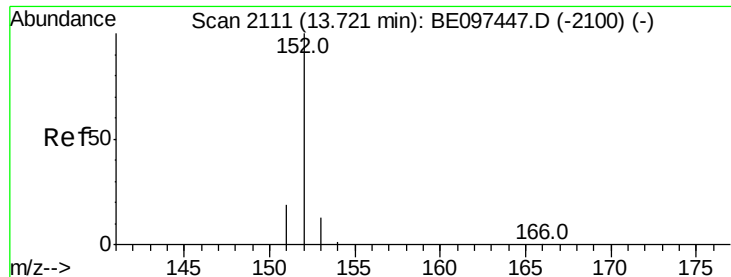
141 88.1 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 3.156 ng/ul

RT: 13.72 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

Instrument :

BNA\_E

ClientSampleId :

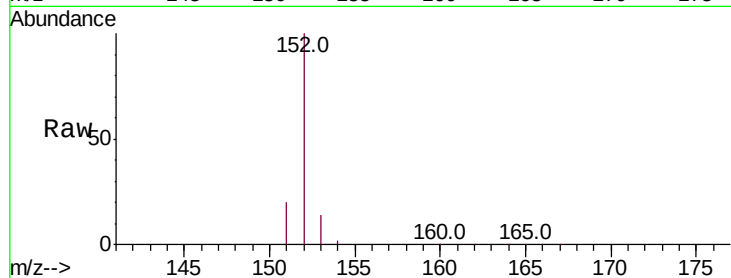
Tot Ion:152 Resp: 45101

Ion Ratio Lower Upper

152 100

151 20.3 17.1 25.7

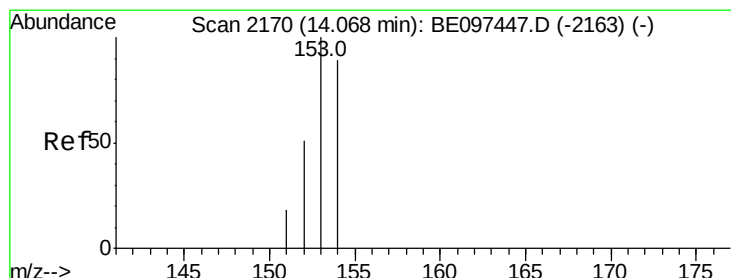
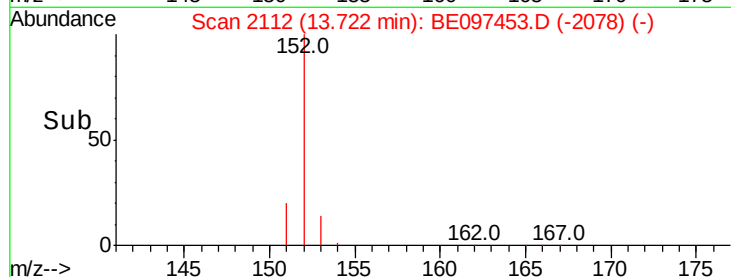
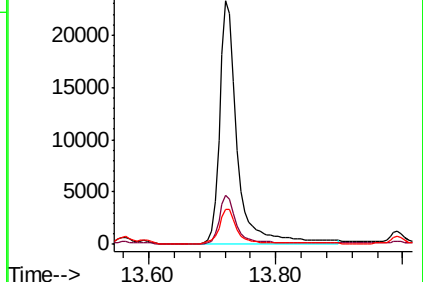
153 14.1 12.8 19.2



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



#8

Acenaphthene

Concen: 3.236 ng/ul

RT: 14.07 min Scan# 2171

Delta R.T. 0.00 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

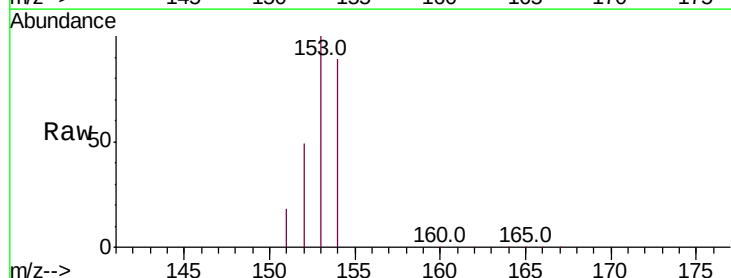
Tgt Ion:153 Resp: 39781

Ion Ratio Lower Upper

153 100

152 49.1 36.0 54.0

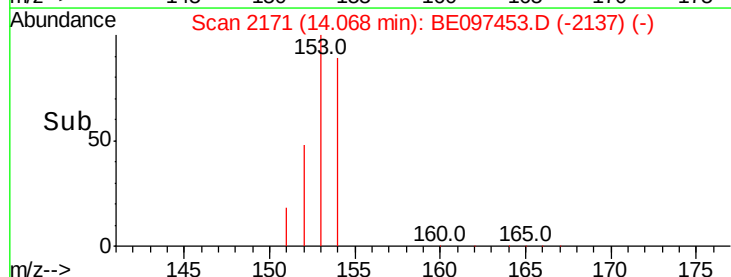
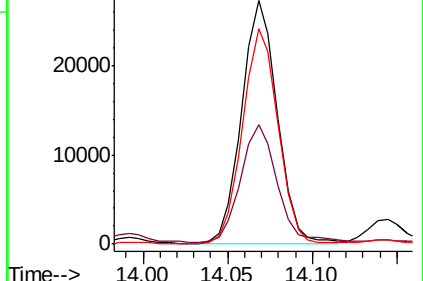
154 88.7 72.0 108.0

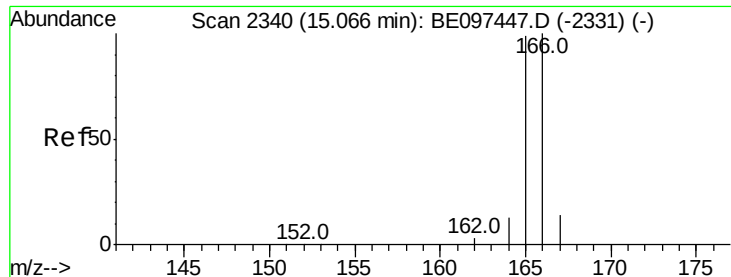


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

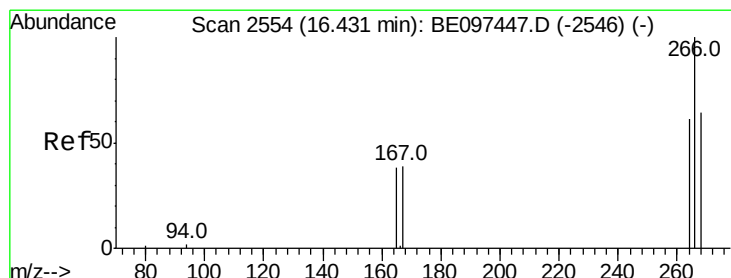
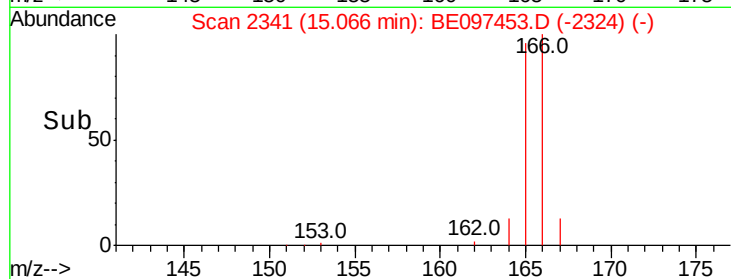
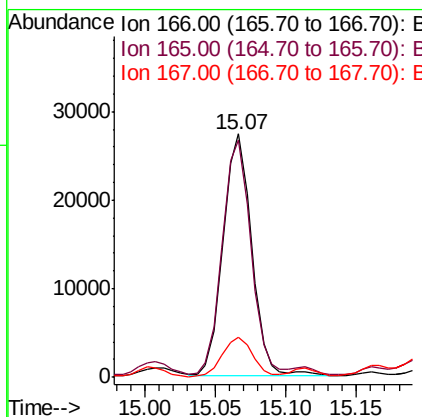
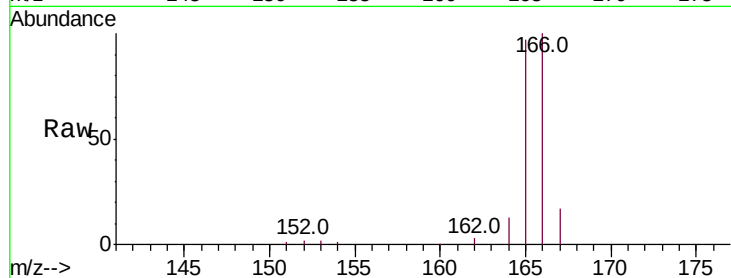




#9  
**Fluorene**  
 Concen: 2.730 ng/ul  
 RT: 15.07 min Scan# 2341  
 Delta R.T. 0.00 min  
 Lab File: BE097453.D  
 Acq: 12 Sep 2018 14:31

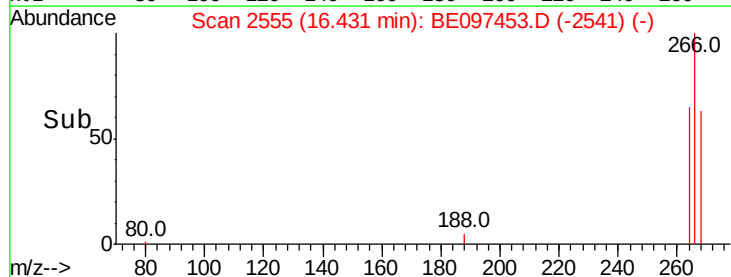
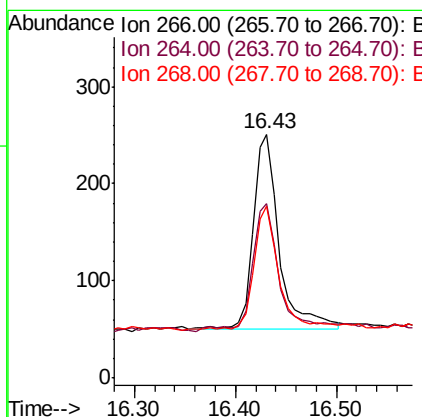
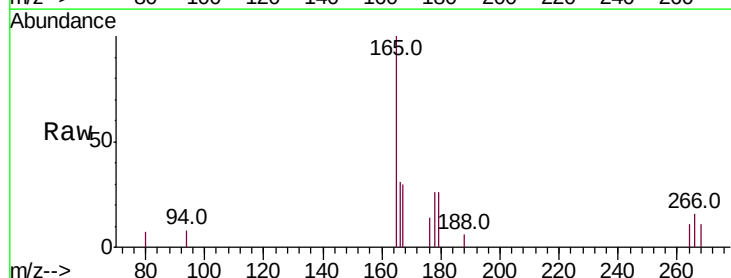
Instrument :  
 BNA\_E  
 ClientSampleId :

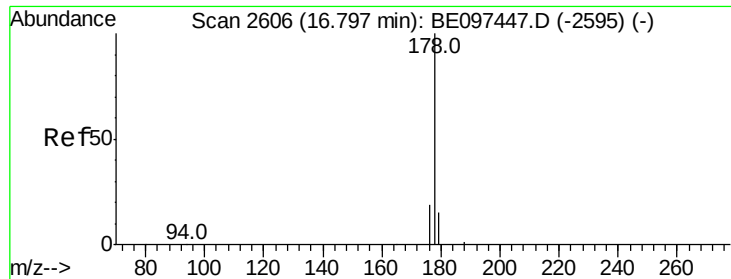
Tot Ion:166 Resp: 38438  
 Ion Ratio Lower Upper  
 166 100  
 165 97.4 73.4 110.2  
 167 16.7 14.6 22.0



#11  
**Pentachlorophenol**  
 Concen: 0.385 ng/ul  
 RT: 16.43 min Scan# 2555  
 Delta R.T. -0.00 min  
 Lab File: BE097453.D  
 Acq: 12 Sep 2018 14:31

Tgt Ion:266 Resp: 361  
 Ion Ratio Lower Upper  
 266 100  
 264 62.0 47.9 71.9  
 268 62.9 49.8 74.8





#12

Phenanthrene

Concen: 48.544 ng/ul

RT: 16.80 min Scan# 2608

Delta R.T. 0.01 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

Instrument :

BNA\_E

ClientSampleId :

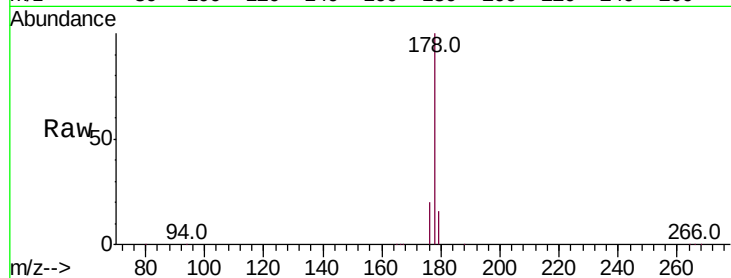
Tot Ion:178 Resp: 1190502

Ion Ratio Lower Upper

178 100

179 15.8 18.4 27.6#

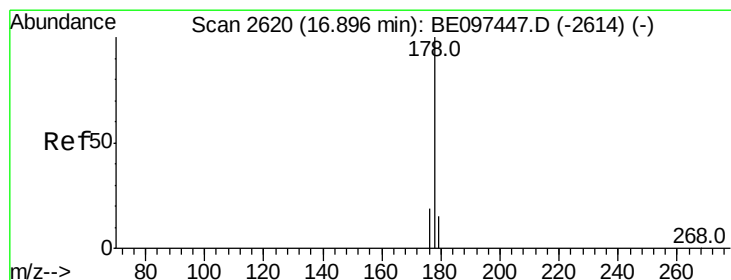
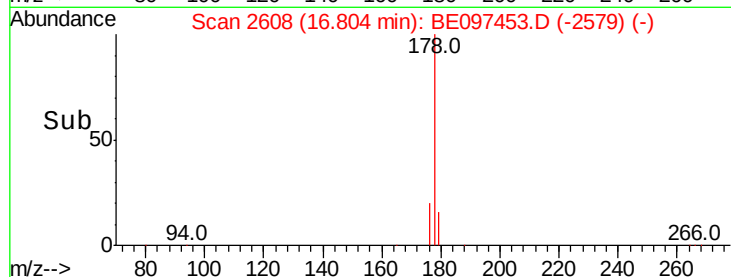
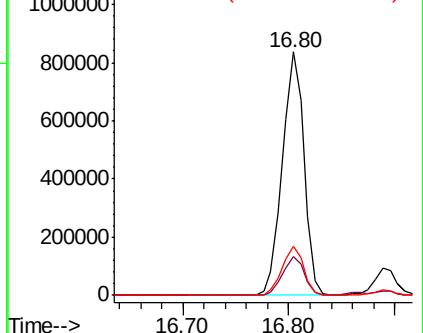
176 20.1 13.6 20.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#13

Anthracene

Concen: 6.249 ng/ul

RT: 16.89 min Scan# 2620

Delta R.T. -0.01 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

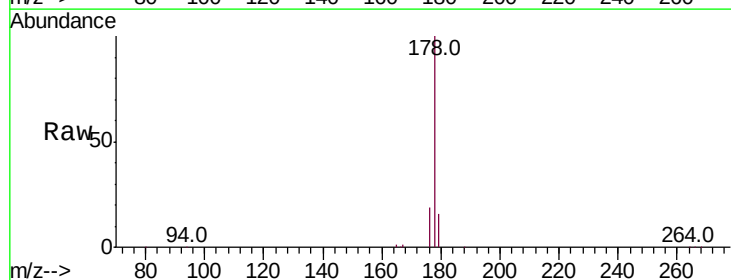
Tgt Ion:178 Resp: 128843

Ion Ratio Lower Upper

178 100

179 15.8 18.1 27.1#

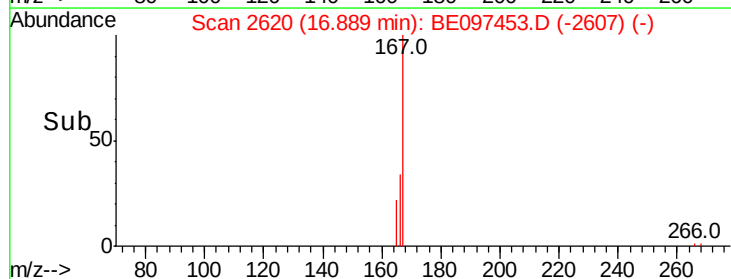
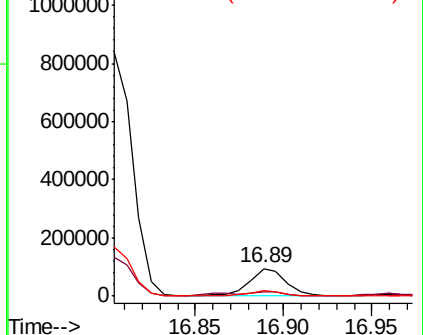
176 19.0 14.7 22.1

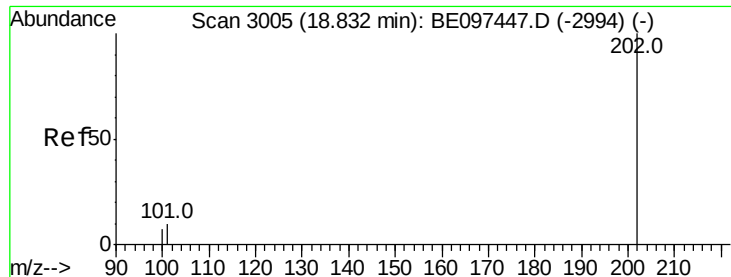


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

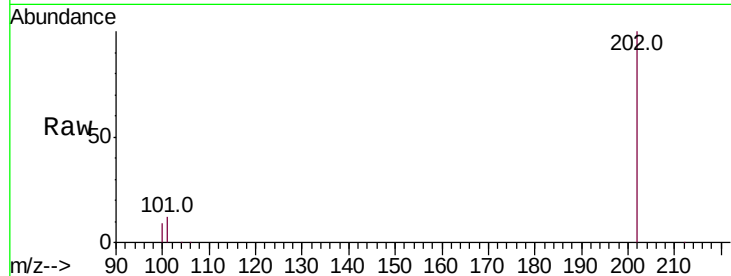




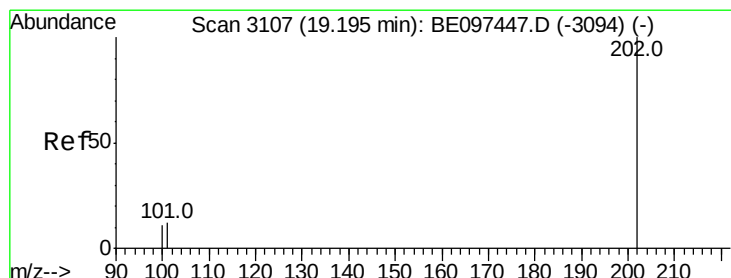
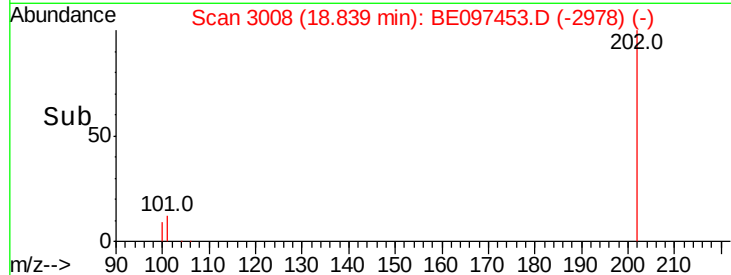
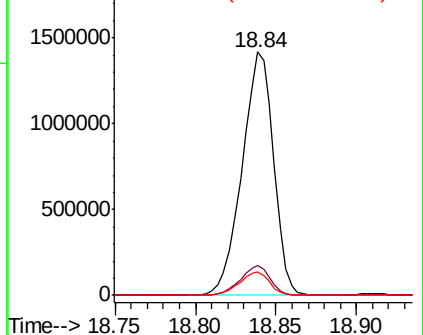
#15  
Fluoranthene  
Concen: 61.629 ng/ul  
RT: 18.84 min Scan# 3008  
Delta R.T. 0.01 min  
Lab File: BE097453.D  
Acq: 12 Sep 2018 14:31

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:202 Resp: 1941653  
Ion Ratio Lower Upper  
202 100  
101 12.1 0.0 30.3  
100 9.5 0.0 39.5

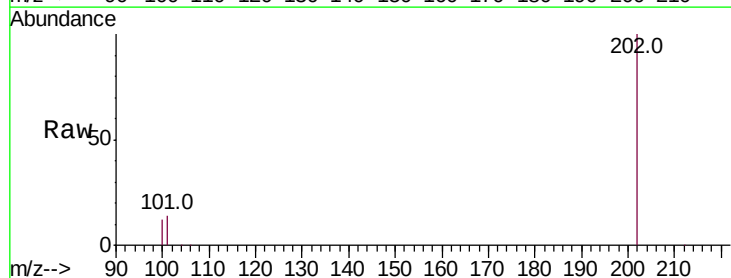


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): BE

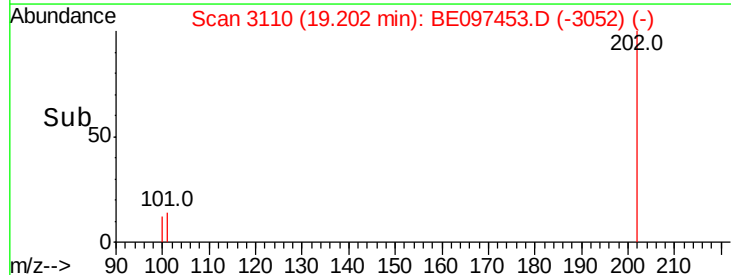
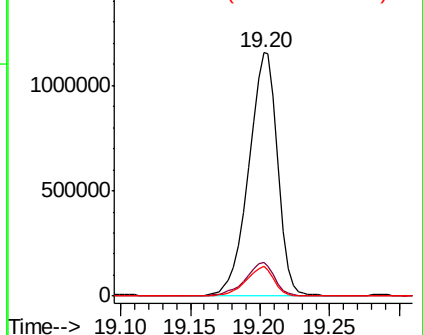


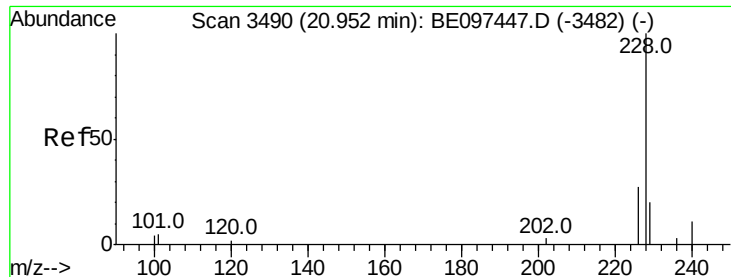
#17  
Pyrene  
Concen: 56.875 ng/ul  
RT: 19.20 min Scan# 3110  
Delta R.T. 0.01 min  
Lab File: BE097453.D  
Acq: 12 Sep 2018 14:31

Tgt Ion:202 Resp: 1670528  
Ion Ratio Lower Upper  
202 100  
101 14.0 18.2 27.4#  
100 12.1 15.6 23.4#



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): BE





#18

Benzo(a)anthracene

Concen: 27.130 ng/ul

RT: 20.96 min Scan# 3493

Delta R.T. 0.01 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

Instrument :

BNA\_E

ClientSampleId :

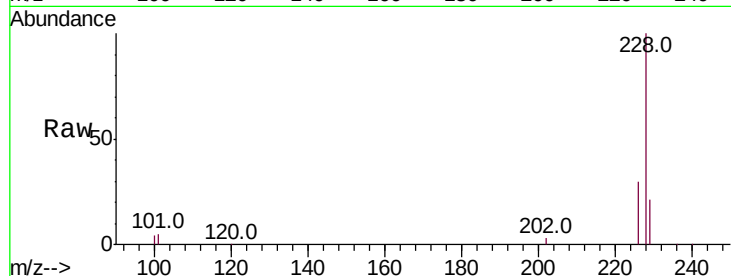
Tot Ion:228 Resp: 760697

Ion Ratio Lower Upper

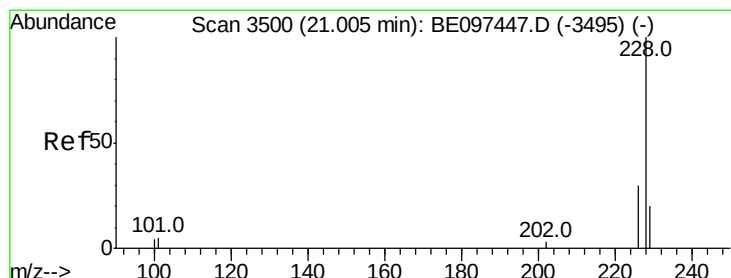
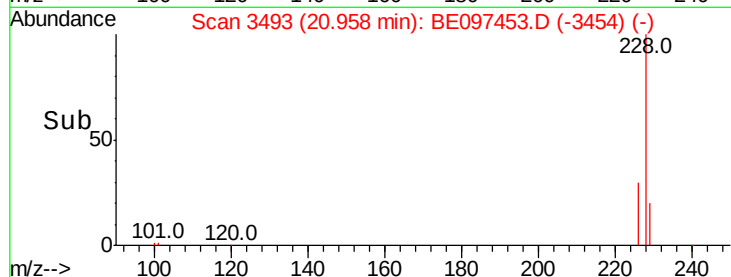
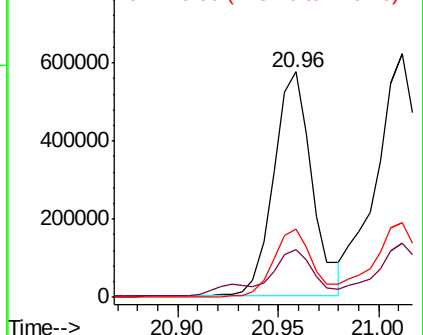
228 100

229 21.2 22.8 34.2#

226 30.2 17.0 25.6#



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E



#19

Chrysene

Concen: 27.259 ng/ul

RT: 21.01 min Scan# 3503

Delta R.T. 0.01 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

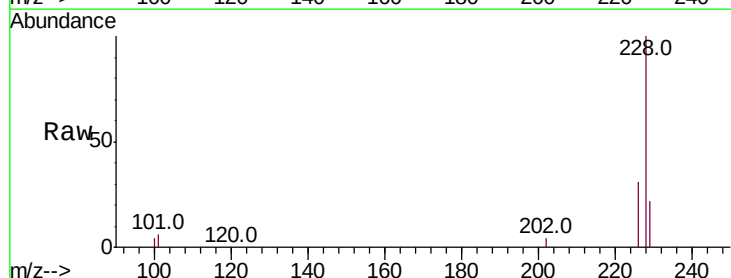
Tgt Ion:228 Resp: 880608

Ion Ratio Lower Upper

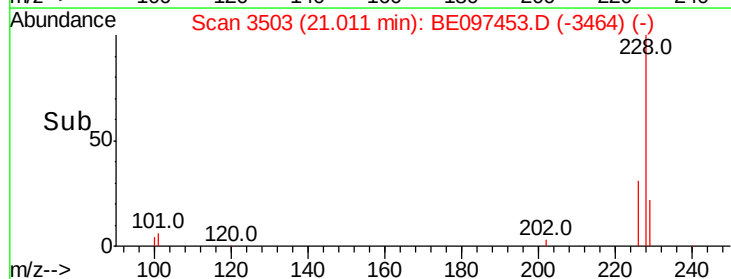
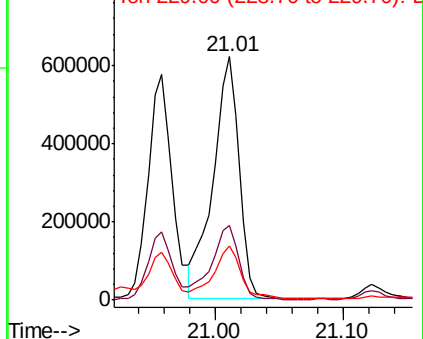
228 100

226 30.8 23.4 35.0

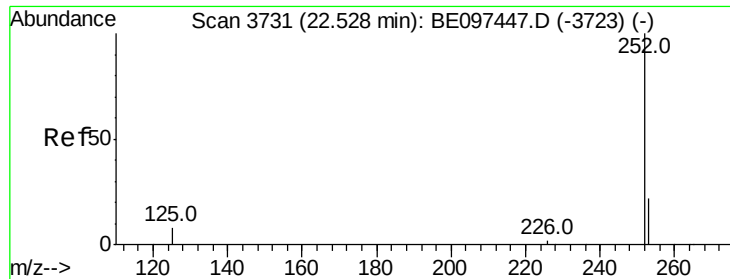
229 22.3 17.7 26.5



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







#21

Benzo(b)fluoranthene

Concen: 38.856 ng/ul

RT: 22.54 min Scan# 3735

Delta R.T. 0.01 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

Instrument :

BNA\_E

ClientSampled :

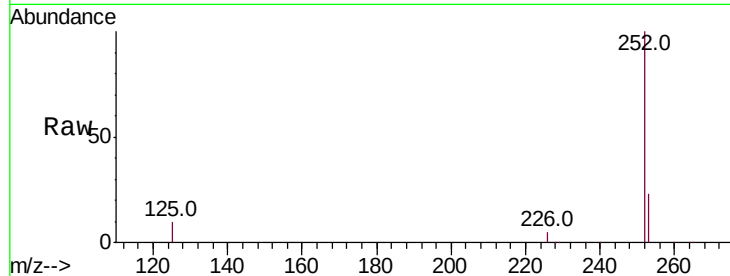
Tot Ion:252 Resp: 1350431

Ion Ratio Lower Upper

252 100

253 23.2 0.0 64.2

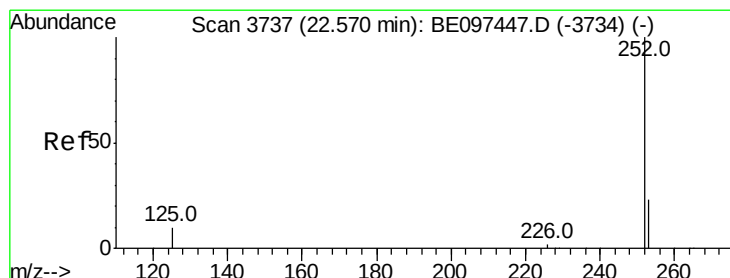
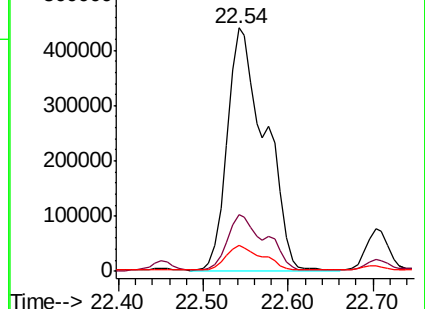
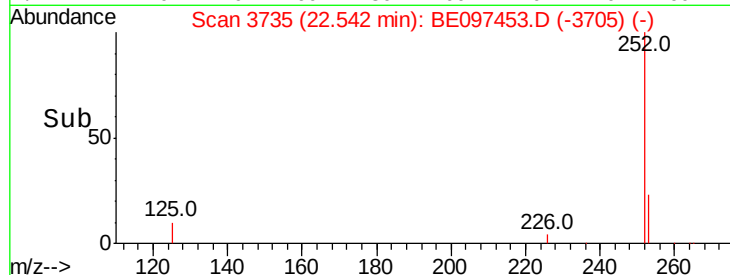
125 10.5 0.0 35.0



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



#22

Benzo(k)fluoranthene

Concen: 34.844 ng/ul

RT: 22.54 min Scan# 3735

Delta R.T. -0.03 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

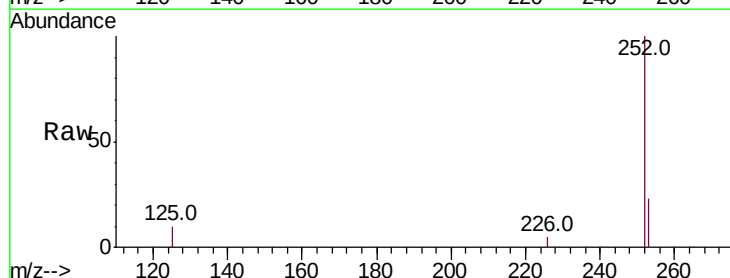
Tgt Ion:252 Resp: 1350431

Ion Ratio Lower Upper

252 100

253 23.2 24.5 36.7#

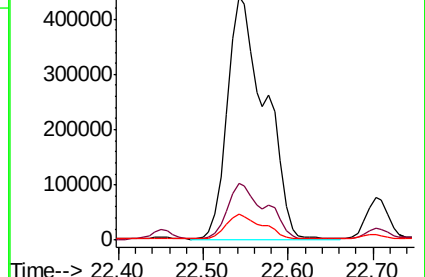
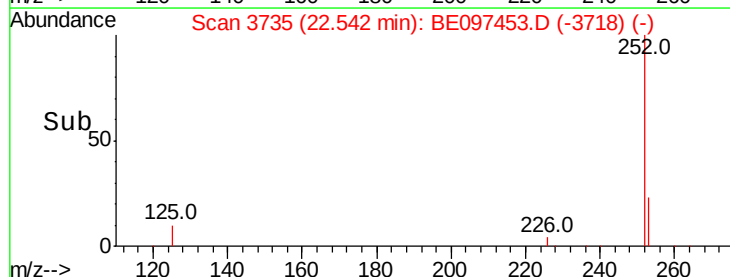
125 10.5 13.7 20.5#

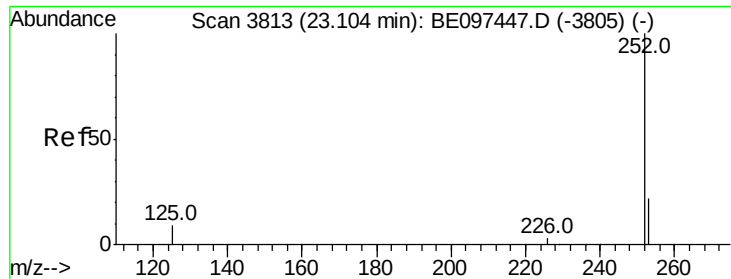


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 19.212 ng/ul

RT: 23.11 min Scan# 3816

Delta R.T. 0.01 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

Instrument :

BNA\_E

ClientSampleId :

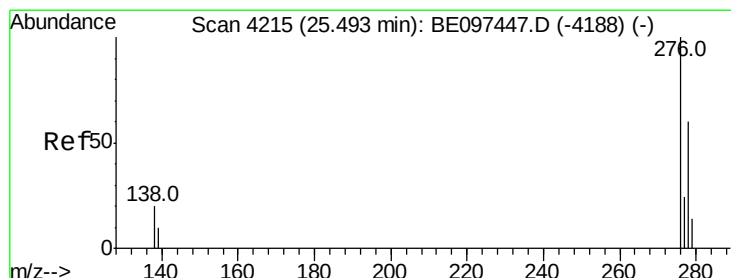
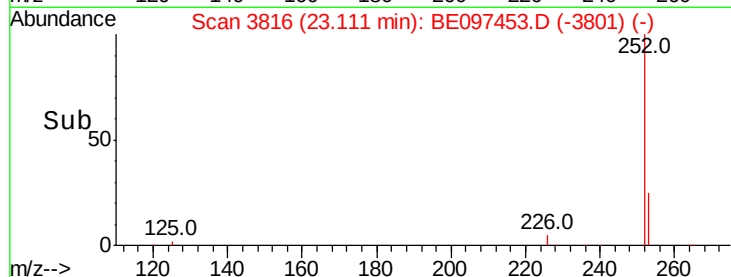
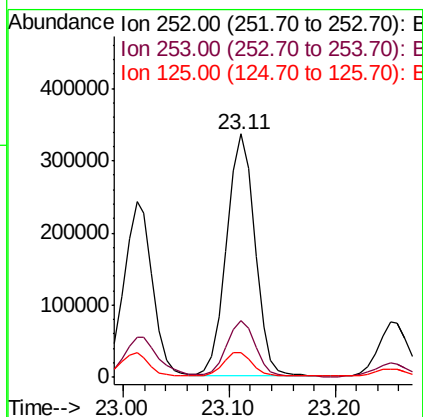
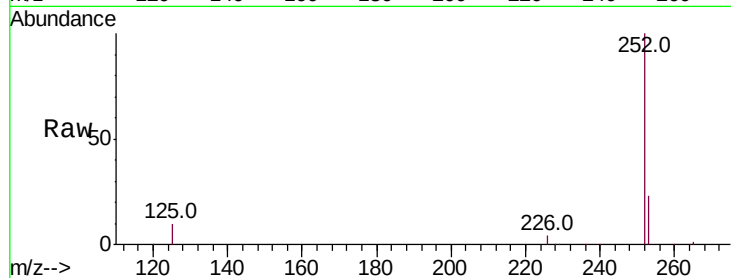
Tot Ion:252 Resp: 617717

Ion Ratio Lower Upper

252 100

253 23.3 28.5 42.7#

125 10.0 18.1 27.1#



#24

Indeno(1,2,3-cd)pyrene

Concen: 10.319 ng/ul

RT: 25.51 min Scan# 4221

Delta R.T. 0.01 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

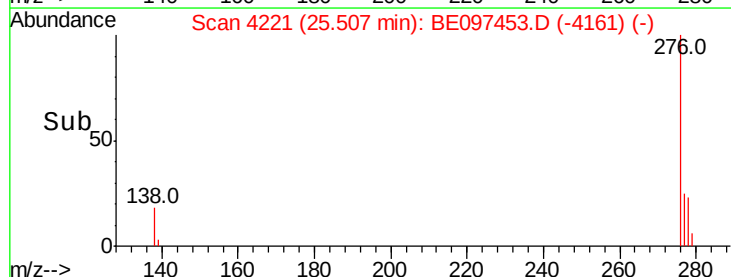
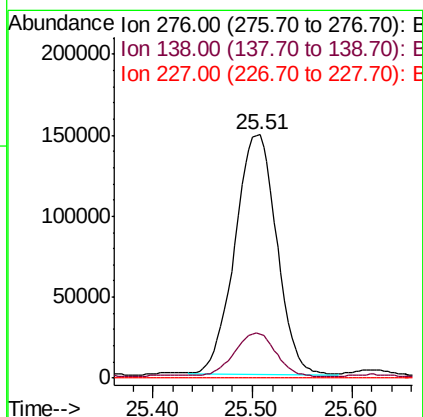
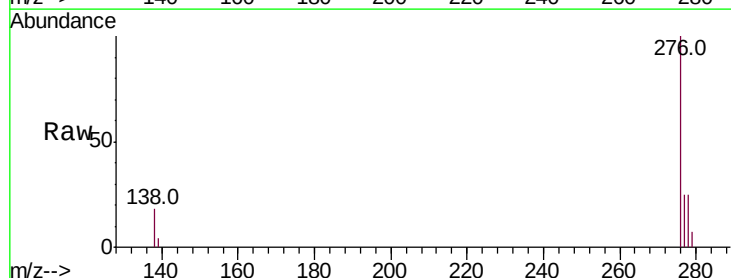
Tgt Ion:276 Resp: 430033

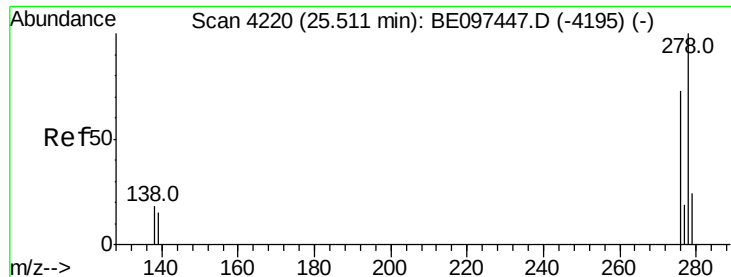
Ion Ratio Lower Upper

276 100

138 18.2 28.0 42.0#

227 0.0 8.0 12.0#





#25

Dibenzo(a,h)anthracene

Concen: 1.097 ng/ul

RT: 25.62 min Scan# 4253

Delta R.T. 0.11 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

Instrument :

BNA\_E

ClientSampleId :

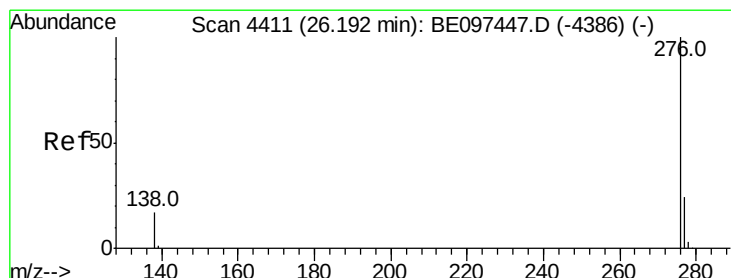
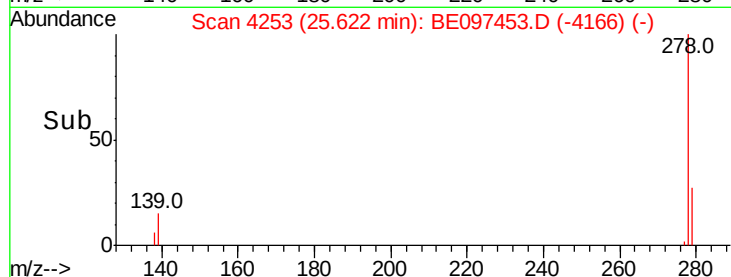
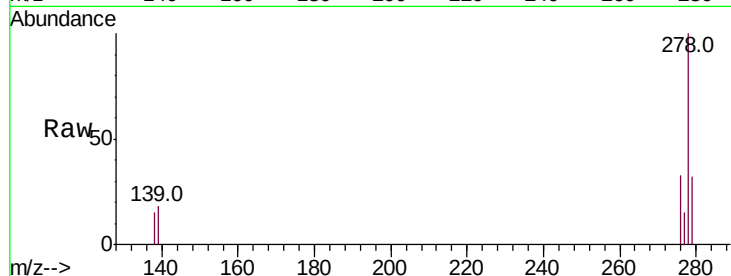
Tot Ion:278 Resp: 38734

Ion Ratio Lower Upper

278 100

139 18.1 17.4 26.0

279 32.1 25.9 38.9



#26

Benzo(g,h,i)perylene

Concen: 11.022 ng/ul

RT: 26.21 min Scan# 4418

Delta R.T. 0.02 min

Lab File: BE097453.D

Acq: 12 Sep 2018 14:31

Tgt Ion:276 Resp: 391603

Ion Ratio Lower Upper

276 100

138 18.3 21.8 32.8#

277 24.4 20.5 30.7

