

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071718\  
 Data File : BE096957.D  
 Acq On : 17 Jul 2018 13:37  
 Operator : SJ/JU  
 Sample : SSTD1.665  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jul 17 14:16:11 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE071718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 17 13:01:30 2018  
 Response via : Initial Calibration

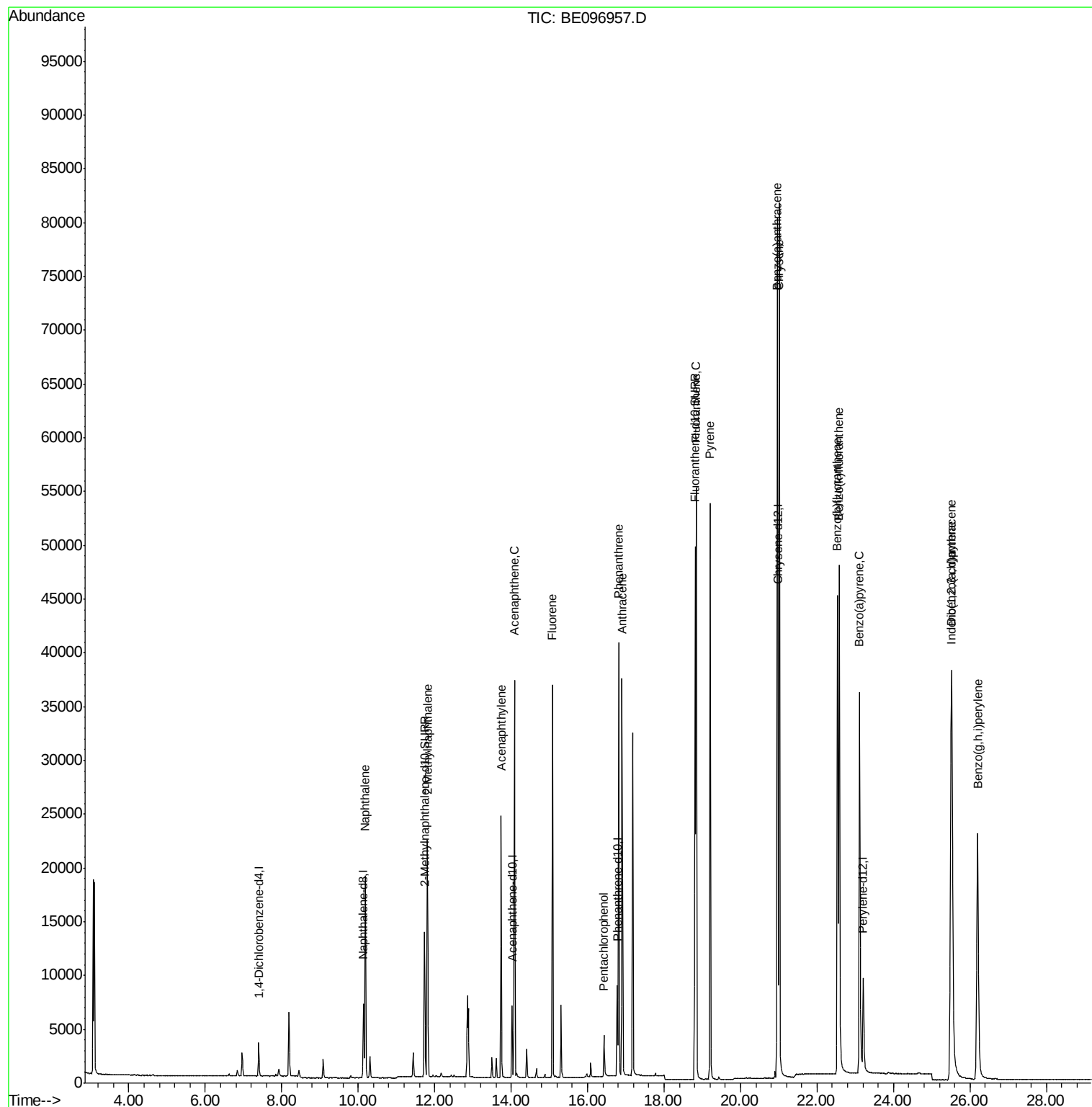
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.40  | 152  | 1503     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.14 | 136  | 6948     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.03 | 164  | 3687     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.78 | 188  | 9949     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 20.98 | 240  | 13708    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.21 | 264  | 11795    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.74 | 152  | 18161    | 1.60   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.81 | 212  | 52607    | 2.12   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.19 | 128  | 27452    | 1.635  | ng/ul# | 90       |
| 5) 2-Methylnaphthalene      | 11.81 | 142  | 18528    | 1.620  | ng/ul  | 97       |
| 7) Acenaphthylene           | 13.74 | 152  | 26618    | 1.761  | ng/ul  | 95       |
| 8) Acenaphthene             | 14.08 | 153  | 20447    | 1.639  | ng/ul  | 93       |
| 9) Fluorene                 | 15.08 | 166  | 22327    | 1.734  | ng/ul  | 92       |
| 11) Pentachlorophenol       | 16.43 | 266  | 1936     | 2.973  | ng/ul  | 97       |
| 12) Phenanthrene            | 16.81 | 178  | 42762    | 1.667  | ng/ul# | 88       |
| 13) Anthracene              | 16.90 | 178  | 39816    | 1.828  | ng/ul# | 91       |
| 15) Fluoranthene            | 18.84 | 202  | 58799    | 2.152  | ng/ul  | 84       |
| 17) Pyrene                  | 19.21 | 202  | 57365    | 1.275  | ng/ul# | 81       |
| 18) Benzo(a)anthracene      | 20.96 | 228  | 60464    | 1.870  | ng/ul# | 86       |
| 19) Chrysene                | 21.01 | 228  | 63713    | 1.521  | ng/ul  | 96       |
| 21) Benzo(b)fluoranthene    | 22.53 | 252  | 58771    | 1.826  | ng/ul  | 82       |
| 22) Benzo(k)fluoranthene    | 22.58 | 252  | 59717    | 1.699  | ng/ul# | 83       |
| 23) Benzo(a)pyrene          | 23.11 | 252  | 52143    | 1.915  | ng/ul# | 76       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.50 | 276  | 59341    | 2.099  | ng/ul# | 80       |
| 25) Dibenzo(a,h)anthracene  | 25.53 | 278  | 50026    | 2.228  | ng/ul# | 86       |
| 26) Benzo(g,h,i)perylene    | 26.20 | 276  | 51233    | 1.867  | ng/ul# | 92       |

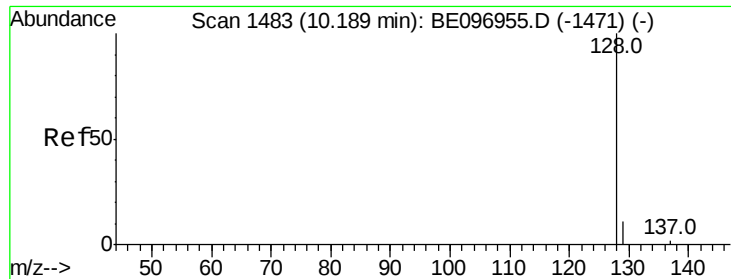
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071718\  
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Sample : SST1.665  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :

Quant Time: Jul 17 14:16:11 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE071718.M  
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QLast Update : Tue Jul 17 13:01:30 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 1.635 ng/ul

RT: 10.19 min Scan# 1482

Delta R.T. -0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

Instrument :

BNA\_E

ClientSampleId :

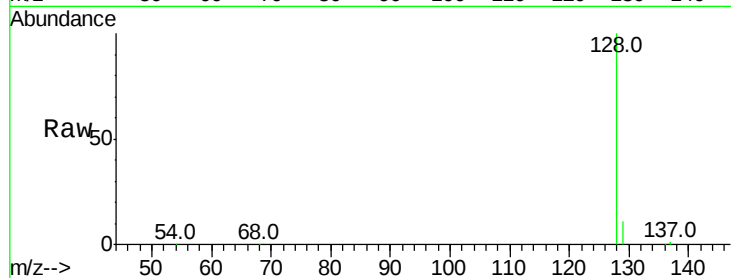
Tot Ion:128 Resp: 27452

Ion Ratio Lower Upper

128 100

129 11.0 11.3 16.9#

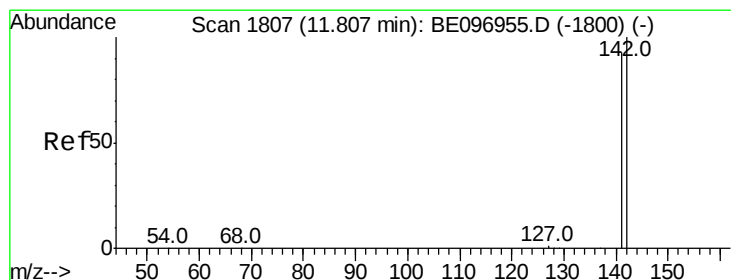
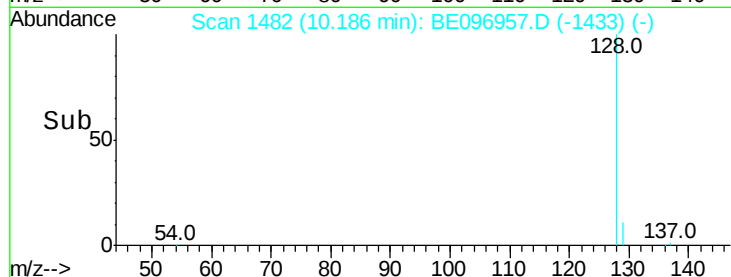
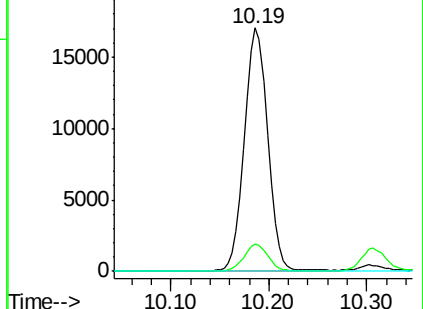
127 0.0 4.0 6.0#



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: 1.620 ng/ul

RT: 11.81 min Scan# 1807

Delta R.T. 0.00 min

Lab File: BE096957.D

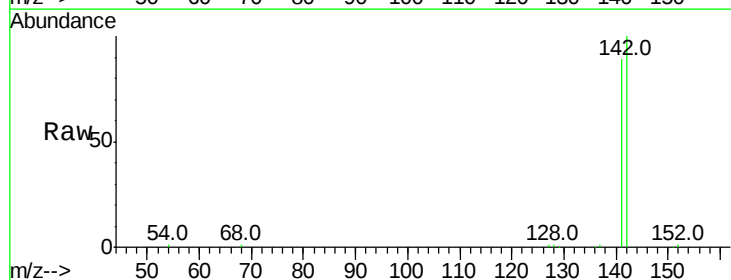
Acq: 17 Jul 2018 13:37

Tgt Ion:142 Resp: 18528

Ion Ratio Lower Upper

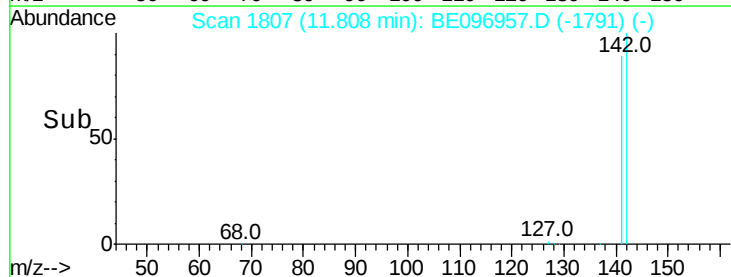
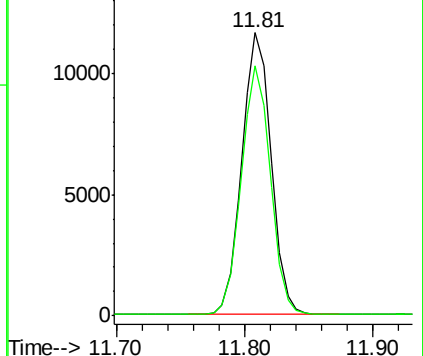
142 100

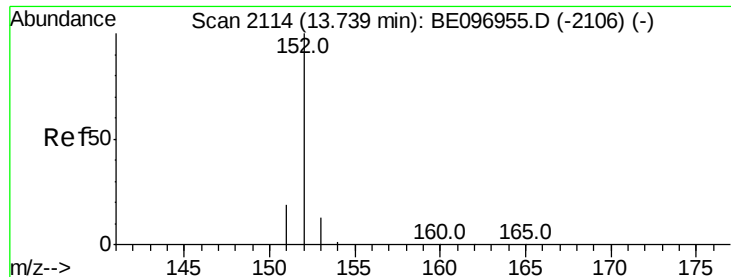
141 87.9 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 1.761 ng/ul

RT: 13.74 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

Instrument :

BNA\_E

ClientSampleId :

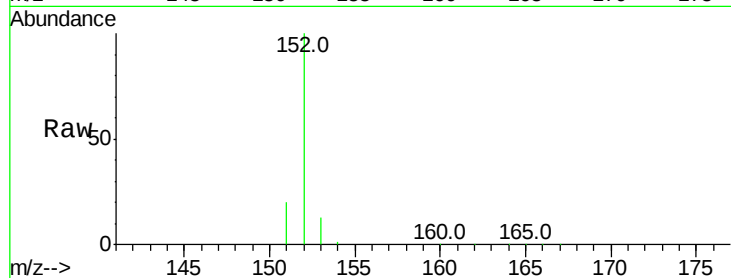
Tot Ion:152 Resp: 26618

Ion Ratio Lower Upper

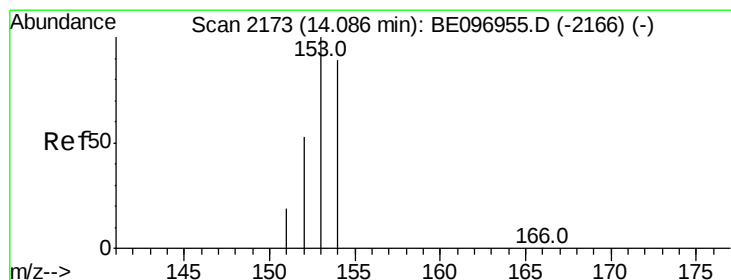
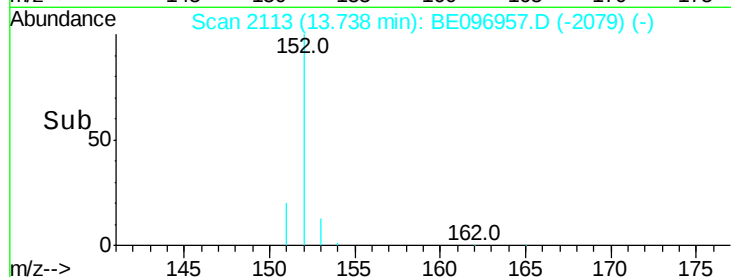
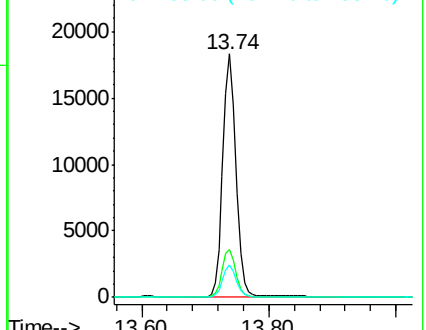
152 100

151 19.9 17.1 25.7

153 13.3 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: 1.639 ng/ul

RT: 14.08 min Scan# 2172

Delta R.T. -0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

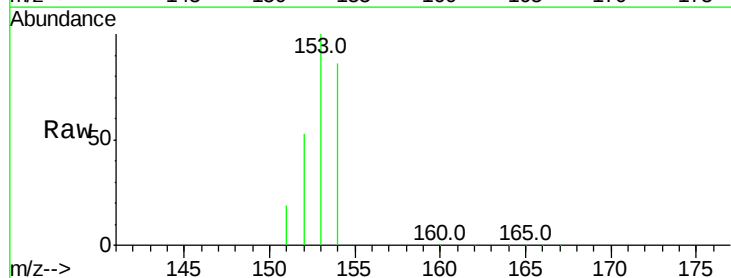
Tgt Ion:153 Resp: 20447

Ion Ratio Lower Upper

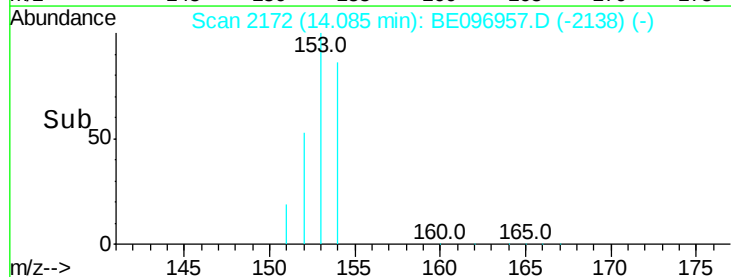
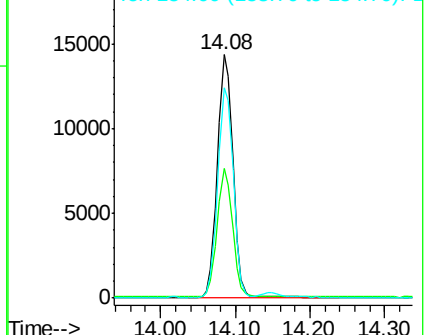
153 100

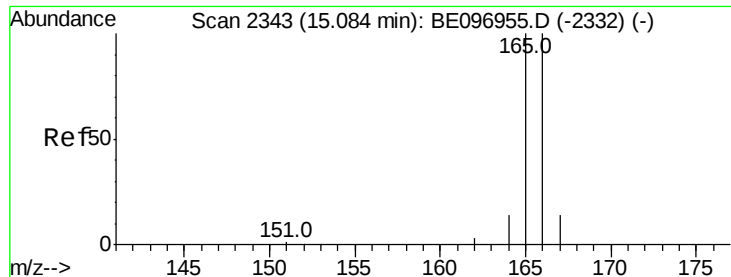
152 53.3 36.0 54.0

154 86.4 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: 1.734 ng/ul

RT: 15.08 min Scan# 2342

Delta R.T. -0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

Instrument :

BNA\_E

ClientSampleId :

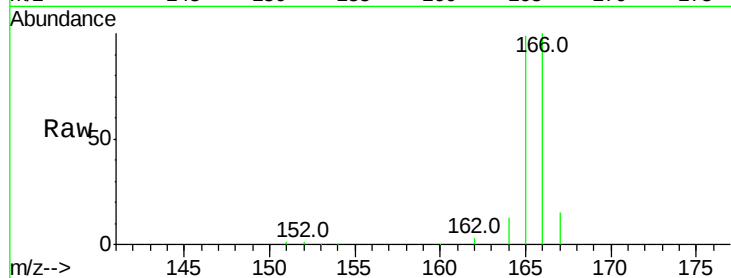
Tot Ion:166 Resp: 22327

Ion Ratio Lower Upper

166 100

165 99.2 73.4 110.2

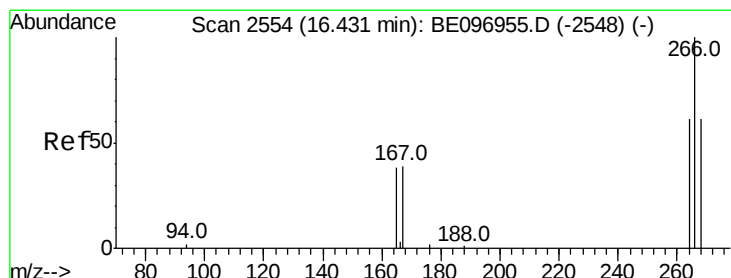
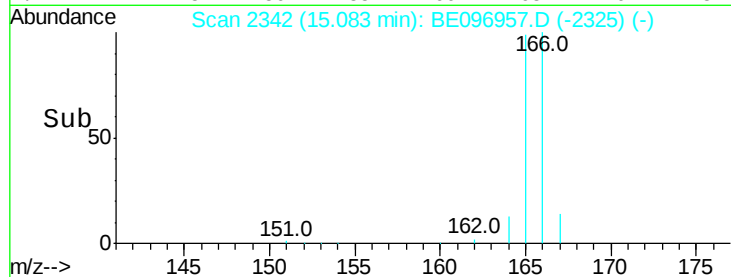
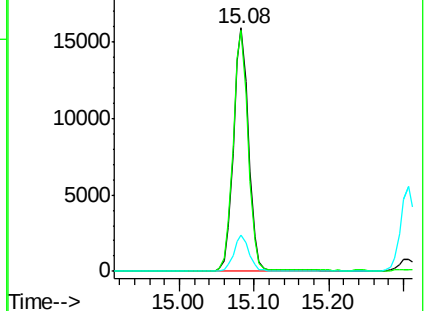
167 14.8 14.6 22.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#11

Pentachlorophenol

Concen: 2.973 ng/ul

RT: 16.43 min Scan# 2553

Delta R.T. -0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

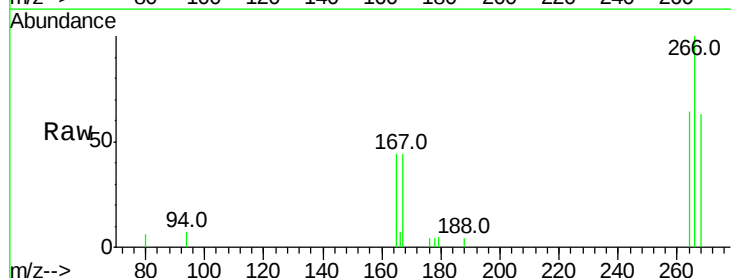
Tgt Ion:266 Resp: 1936

Ion Ratio Lower Upper

266 100

264 62.6 47.9 71.9

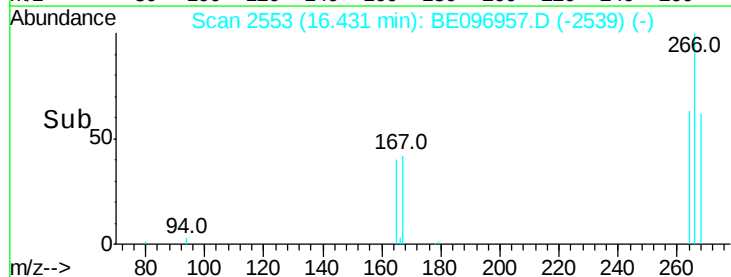
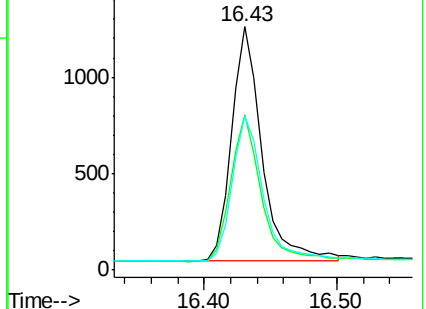
268 63.5 49.8 74.8

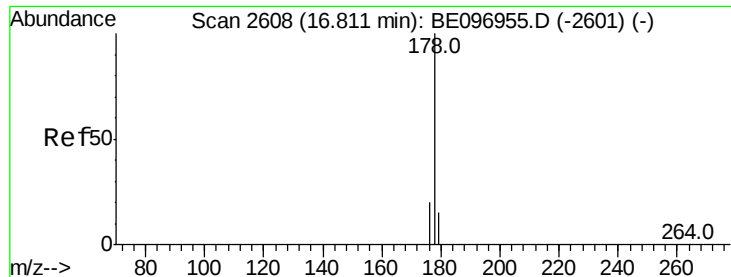


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 1.667 ng/ul

RT: 16.81 min Scan# 2607

Delta R.T. -0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

Instrument :

BNA\_E

ClientSampleId :

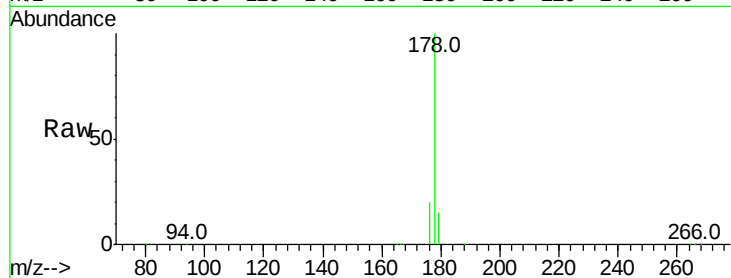
Tot Ion:178 Resp: 42762

Ion Ratio Lower Upper

178 100

179 15.2 18.4 27.6#

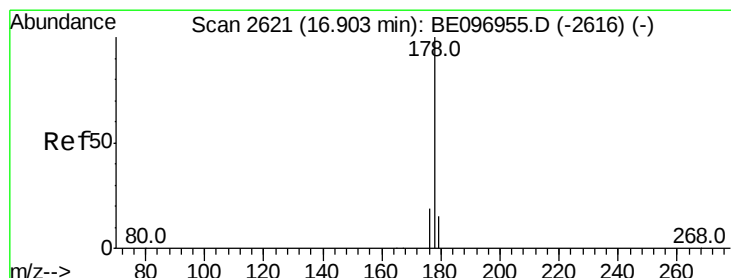
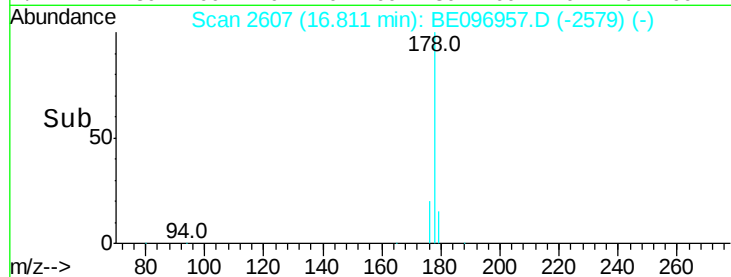
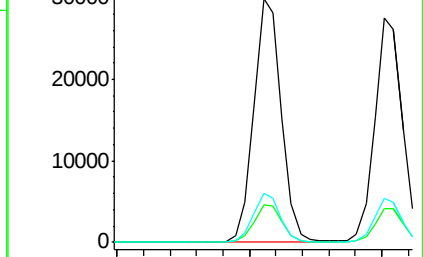
176 19.9 13.6 20.4



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: 1.828 ng/ul

RT: 16.90 min Scan# 2620

Delta R.T. -0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

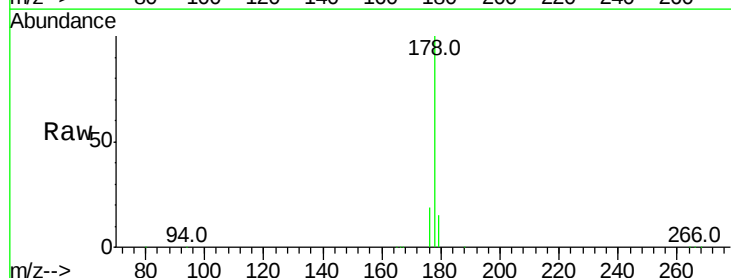
Tgt Ion:178 Resp: 39816

Ion Ratio Lower Upper

178 100

179 15.1 18.1 27.1#

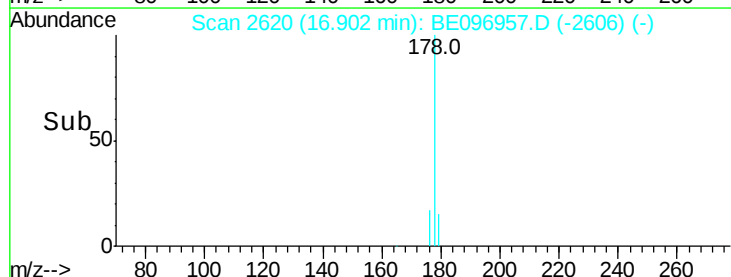
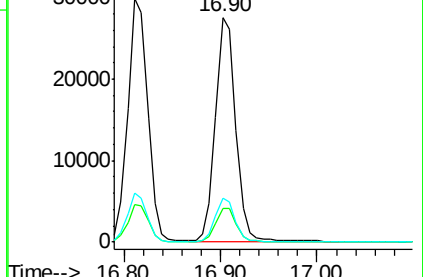
176 19.3 14.7 22.1

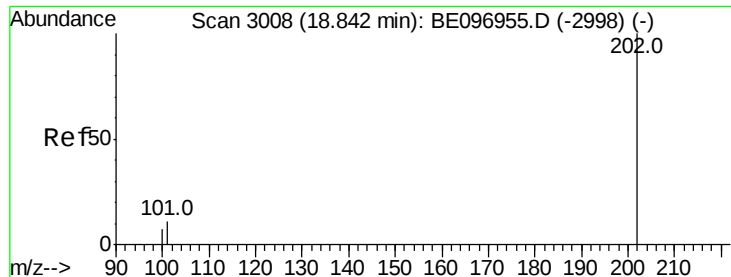


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

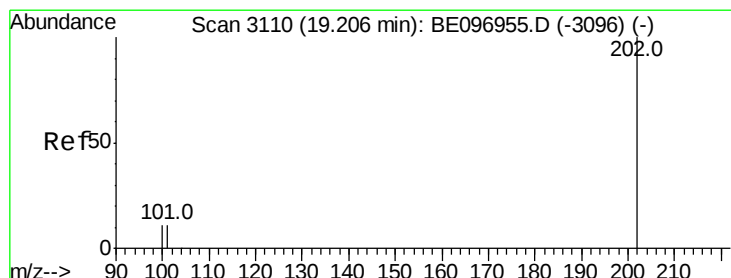
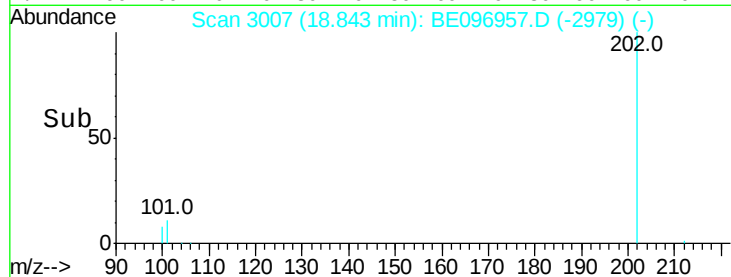
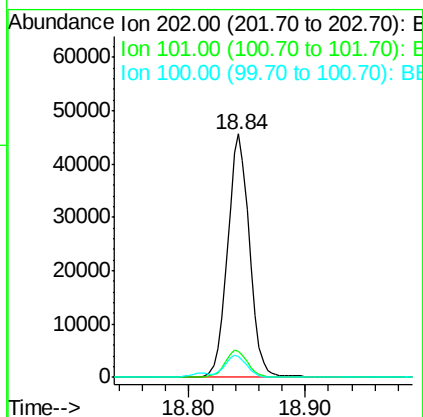
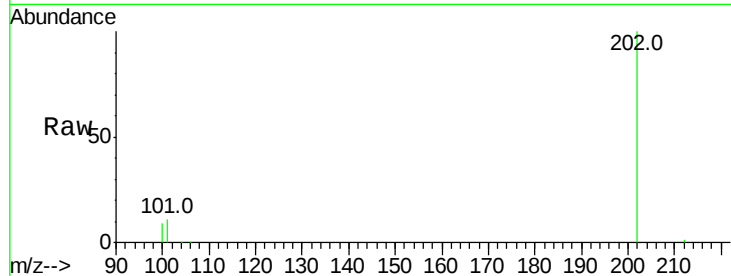




#15  
**Fluoranthene**  
 Concen: 2.152 ng/ul  
 RT: 18.84 min Scan# 3007  
 Delta R.T. 0.00 min  
 Lab File: BE096957.D  
 Acq: 17 Jul 2018 13:37

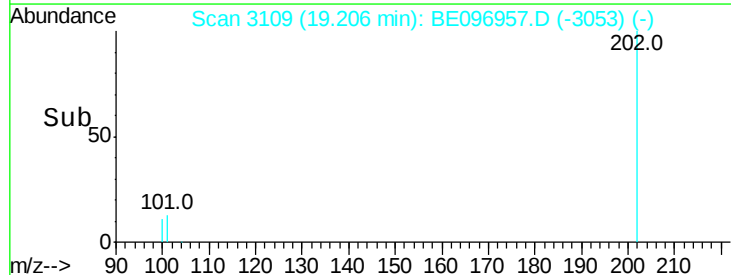
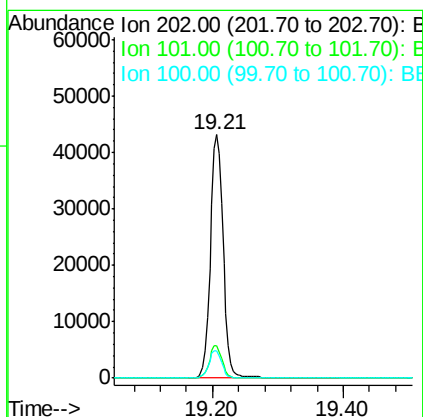
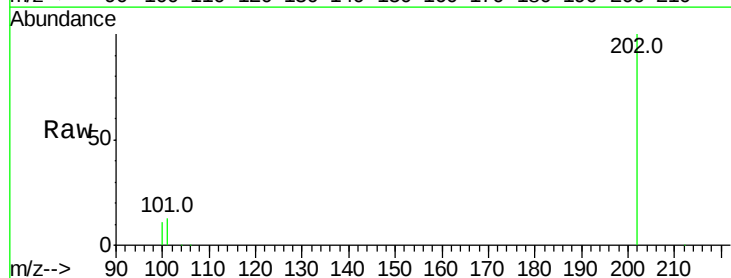
Instrument :  
 BNA\_E  
 ClientSampleId :

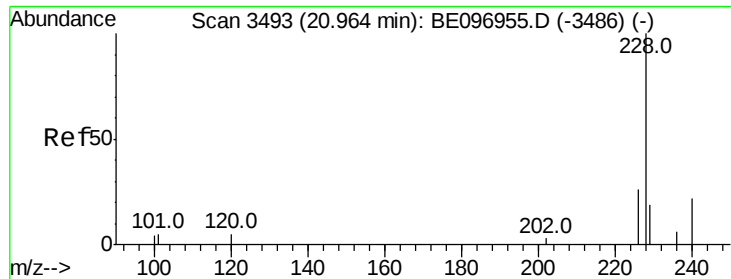
Tot Ion:202 Resp: 58799  
 Ion Ratio Lower Upper  
 202 100  
 101 10.8 0.0 30.3  
 100 8.5 0.0 39.5



#17  
**Pyrene**  
 Concen: 1.275 ng/ul  
 RT: 19.21 min Scan# 3109  
 Delta R.T. 0.00 min  
 Lab File: BE096957.D  
 Acq: 17 Jul 2018 13:37

Tgt Ion:202 Resp: 57365  
 Ion Ratio Lower Upper  
 202 100  
 101 13.2 18.2 27.4#  
 100 11.2 15.6 23.4#

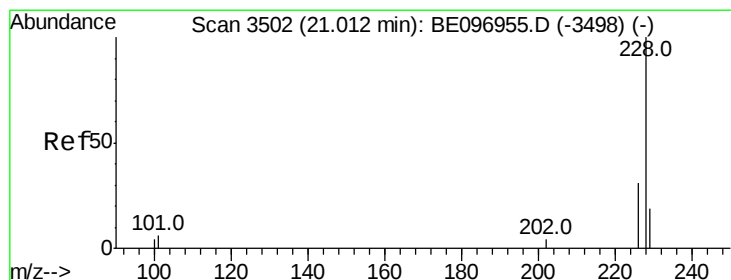
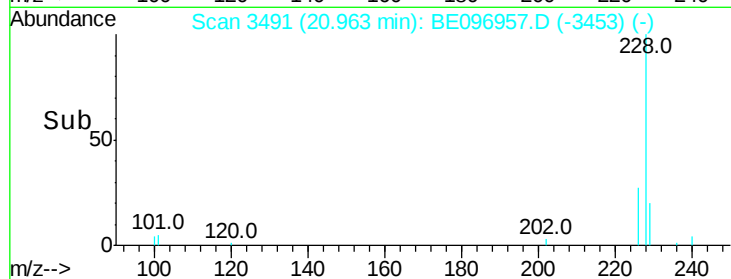
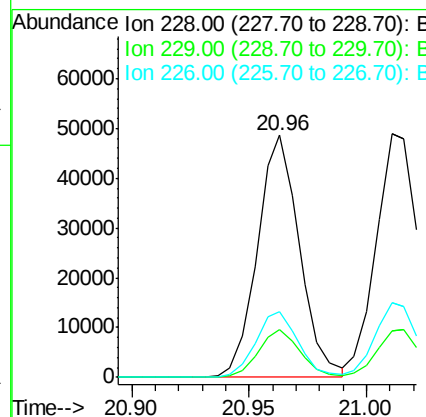
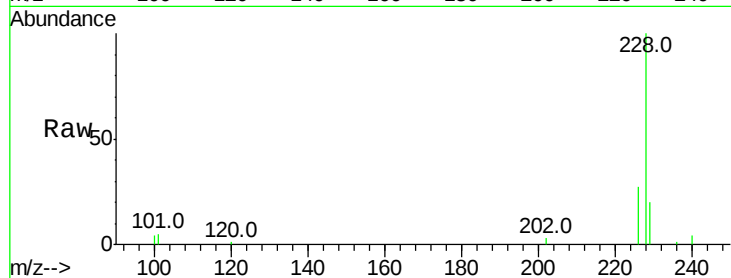




#18  
 Benzo(a)anthracene  
 Concen: 1.870 ng/ul  
 RT: 20.96 min Scan# 3491  
 Delta R.T. -0.00 min  
 Lab File: BE096957.D  
 Acq: 17 Jul 2018 13:37

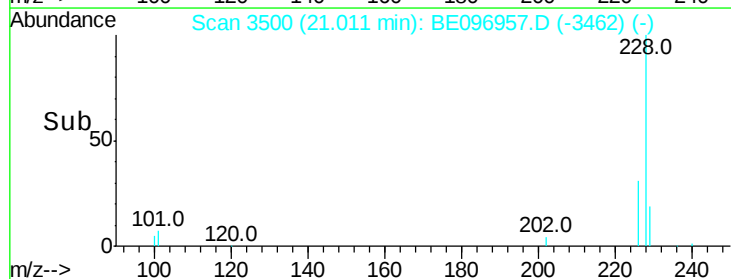
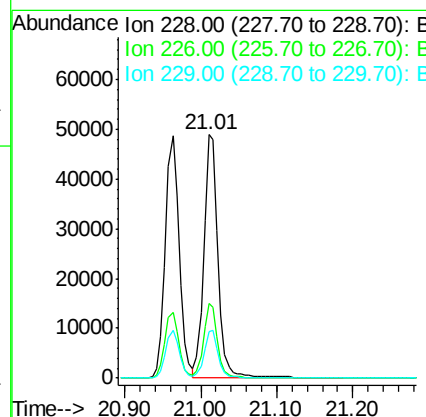
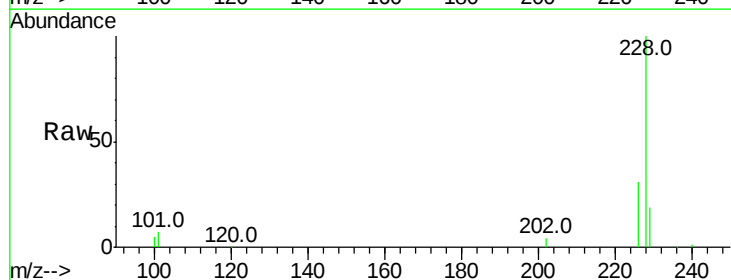
Instrument :  
 BNA\_E  
 ClientSampleId :

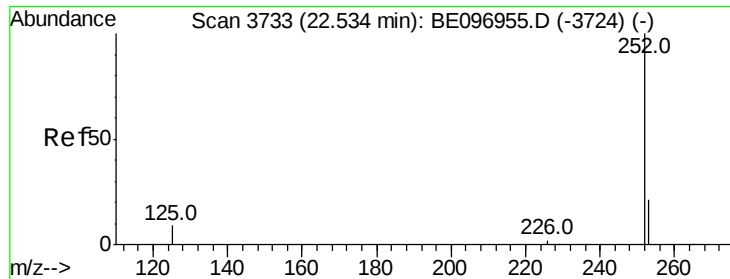
Tot Ion:228 Resp: 60464  
 Ion Ratio Lower Upper  
 228 100  
 229 19.9 22.8 34.2#  
 226 27.0 17.0 25.6#



#19  
 Chrysene  
 Concen: 1.521 ng/ul  
 RT: 21.01 min Scan# 3500  
 Delta R.T. -0.00 min  
 Lab File: BE096957.D  
 Acq: 17 Jul 2018 13:37

Tgt Ion:228 Resp: 63713  
 Ion Ratio Lower Upper  
 228 100  
 226 30.9 23.4 35.0  
 229 19.3 17.7 26.5





#21

Benzo(b)fluoranthene

Concen: 1.826 ng/ul

RT: 22.53 min Scan# 3731

Delta R.T. -0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

Instrument :

BNA\_E

ClientSampleId :

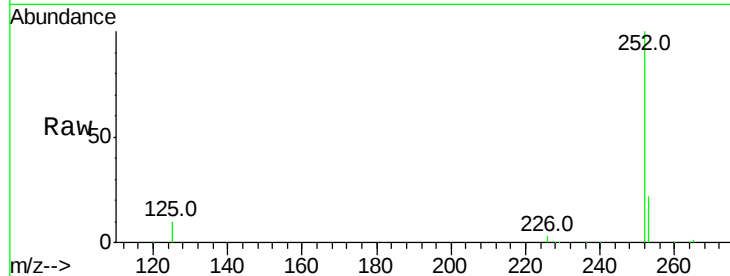
Tot Ion:252 Resp: 58771

Ion Ratio Lower Upper

252 100

253 21.6 0.0 64.2

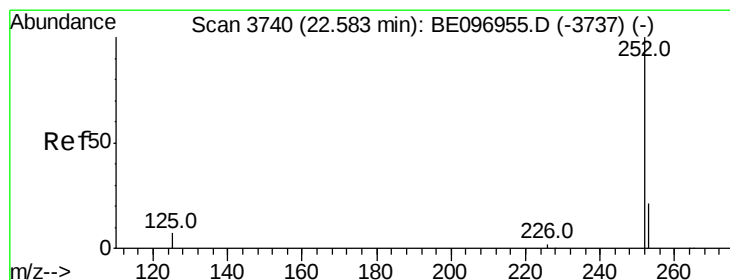
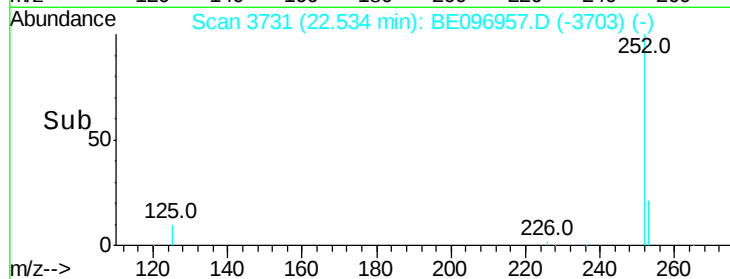
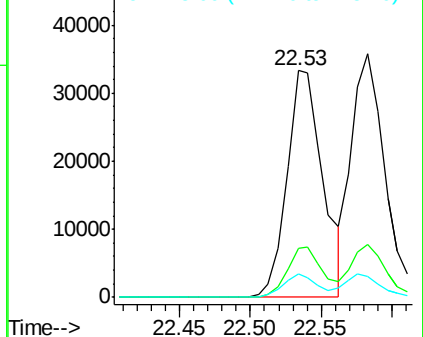
125 10.2 0.0 35.0



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: 1.699 ng/ul

RT: 22.58 min Scan# 3738

Delta R.T. -0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

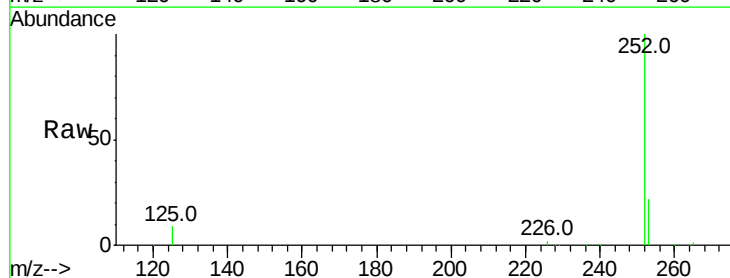
Tgt Ion:252 Resp: 59717

Ion Ratio Lower Upper

252 100

253 22.0 24.5 36.7#

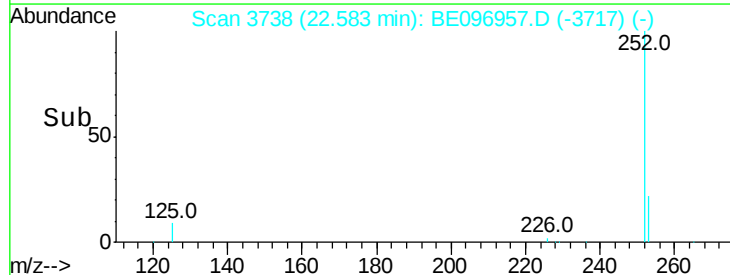
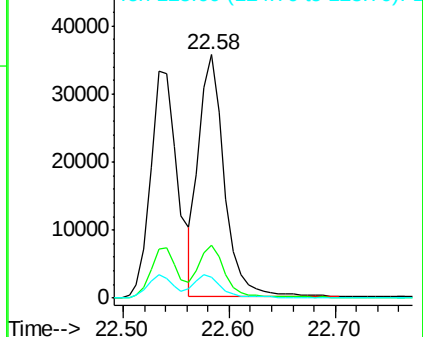
125 8.8 13.7 20.5#

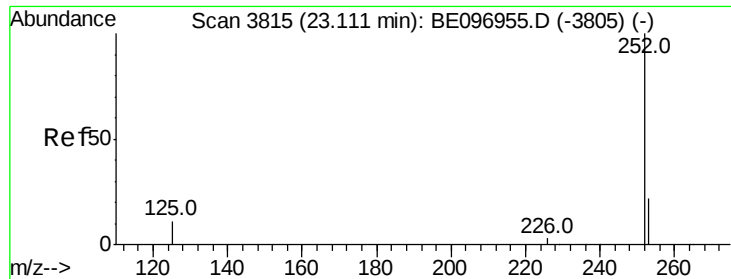


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 1.915 ng/ul

RT: 23.11 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

Instrument :

BNA\_E

ClientSampleId :

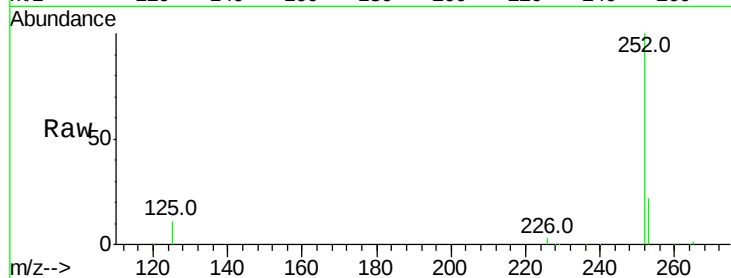
Tot Ion:252 Resp: 52143

Ion Ratio Lower Upper

252 100

253 21.6 28.5 42.7#

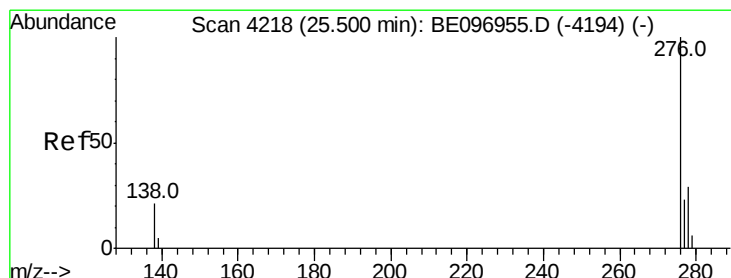
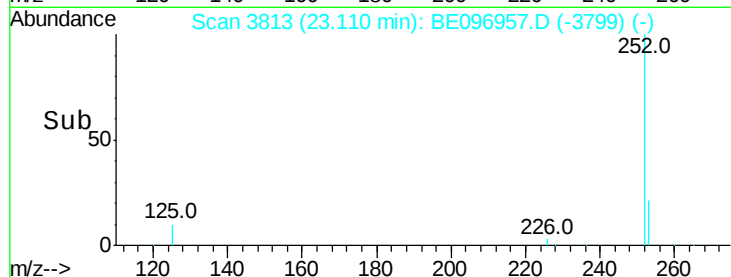
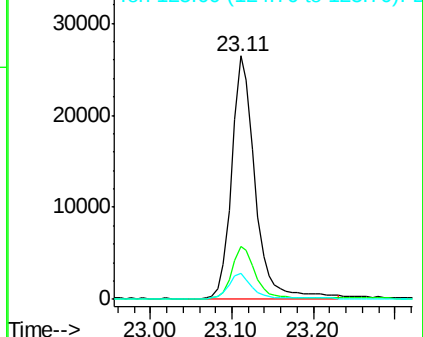
125 10.5 18.1 27.1#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 2.099 ng/ul

RT: 25.50 min Scan# 4217

Delta R.T. 0.00 min

Lab File: BE096957.D

Acq: 17 Jul 2018 13:37

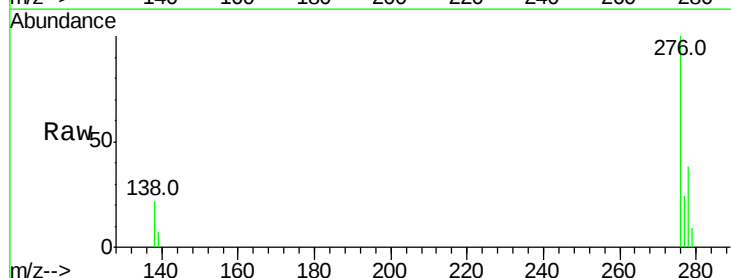
Tgt Ion:276 Resp: 59341

Ion Ratio Lower Upper

276 100

138 24.6 28.0 42.0#

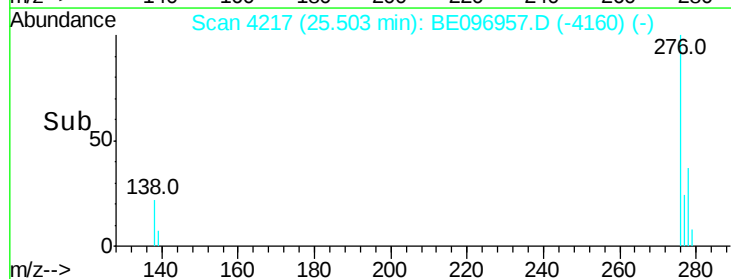
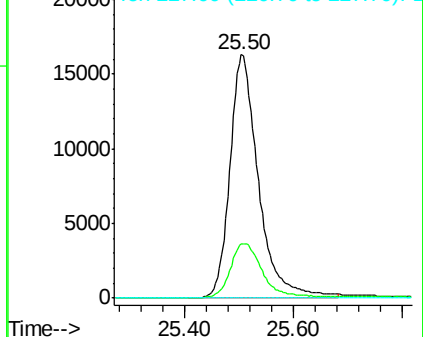
227 0.0 8.0 12.0#

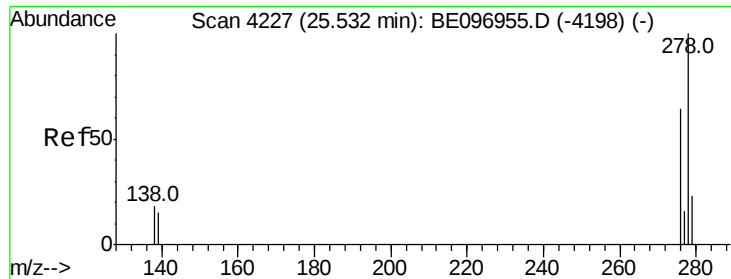


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E

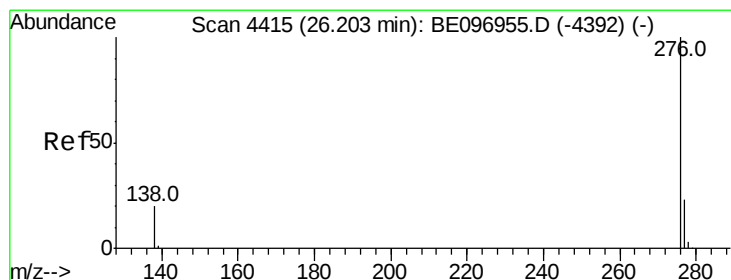
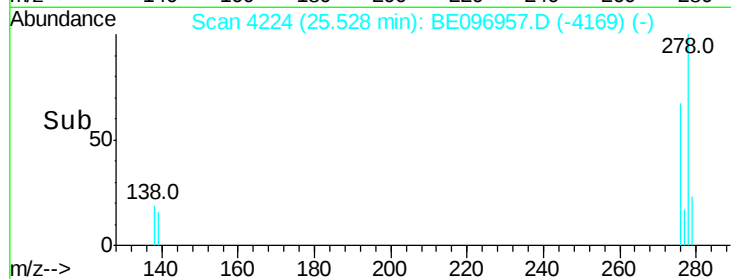
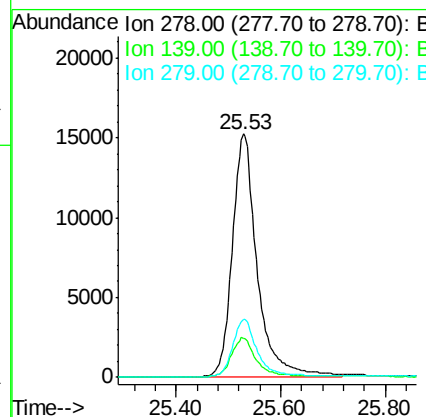
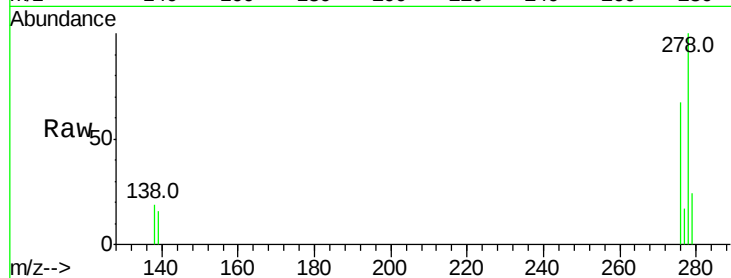




#25  
Dibenzo(a,h)anthracene  
Concen: 2.228 ng/ul  
RT: 25.53 min Scan# 4224  
Delta R.T. -0.00 min  
Lab File: BE096957.D  
Acq: 17 Jul 2018 13:37

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:278 Resp: 50026  
Ion Ratio Lower Upper  
278 100  
139 16.2 17.4 26.0#  
279 23.7 25.9 38.9#



#26  
Benzo(g,h,i)perylene  
Concen: 1.867 ng/ul  
RT: 26.20 min Scan# 4413  
Delta R.T. -0.00 min  
Lab File: BE096957.D  
Acq: 17 Jul 2018 13:37

Tgt Ion:276 Resp: 51233  
Ion Ratio Lower Upper  
276 100  
138 21.3 21.8 32.8#  
277 24.0 20.5 30.7

