

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE091218\  
 Data File : BE097470.D  
 Acq On : 13 Sep 2018 3:04  
 Operator : SJ/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Sep 13 03:56:00 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 01:51:24 2018  
 Response via : Initial Calibration

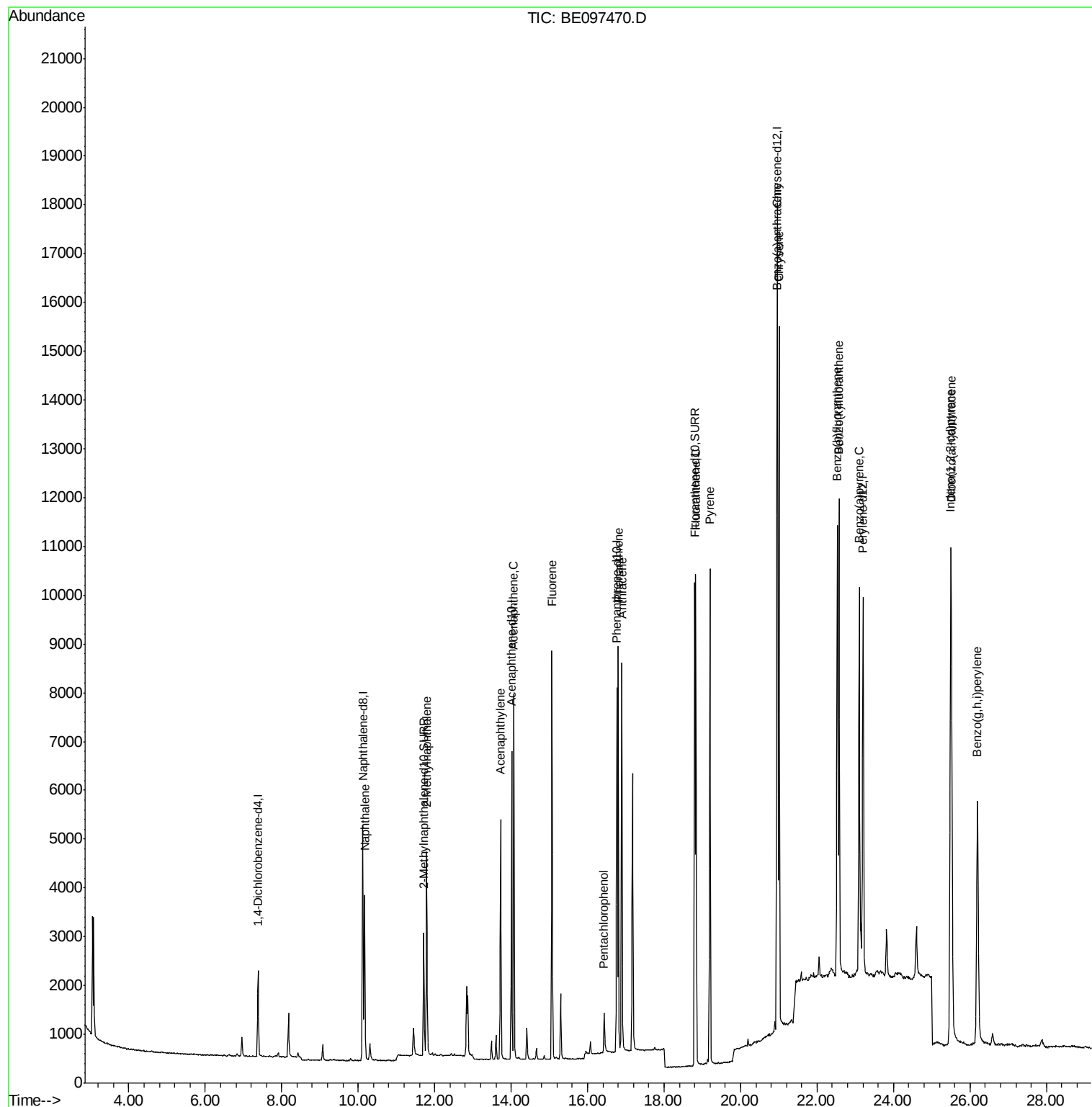
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.38  | 152  | 904      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.12 | 136  | 5206     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.01 | 164  | 3455     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.76 | 188  | 8792     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 20.97 | 240  | 9797     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.20 | 264  | 10206    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.72 | 152  | 3627     | 0.45   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.80 | 212  | 11289    | 0.39   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.17 | 128  | 5107     | 0.402  | ng/ul# | 92       |
| 5) 2-Methylnaphthalene      | 11.79 | 142  | 3664     | 0.457  | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.72 | 152  | 5705     | 0.453  | ng/ul  | 98       |
| 8) Acenaphthene             | 14.07 | 153  | 4384     | 0.405  | ng/ul  | 96       |
| 9) Fluorene                 | 15.07 | 166  | 5174     | 0.417  | ng/ul# | 92       |
| 11) Pentachlorophenol       | 16.43 | 266  | 513      | 0.592  | ng/ul  | 96       |
| 12) Phenanthrene            | 16.80 | 178  | 9059     | 0.400  | ng/ul# | 89       |
| 13) Anthracene              | 16.90 | 178  | 8741     | 0.459  | ng/ul# | 92       |
| 15) Fluoranthene            | 18.83 | 202  | 10996    | 0.378  | ng/ul  | 84       |
| 17) Pyrene                  | 19.20 | 202  | 11238    | 0.426  | ng/ul# | 82       |
| 18) Benzo(a)anthracene      | 20.95 | 228  | 11751    | 0.467  | ng/ul# | 85       |
| 19) Chrysene                | 21.00 | 228  | 11470    | 0.396  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.53 | 252  | 11543    | 0.422  | ng/ul  | 88       |
| 22) Benzo(k)fluoranthene    | 22.57 | 252  | 11763    | 0.386  | ng/ul  | 90       |
| 23) Benzo(a)pyrene          | 23.10 | 252  | 11300    | 0.447  | ng/ul# | 83       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.49 | 276  | 14215    | 0.434  | ng/ul# | 76       |
| 25) Dibenzo(a,h)anthracene  | 25.51 | 278  | 11829    | 0.426  | ng/ul  | 93       |
| 26) Benzo(g,h,i)perylene    | 26.19 | 276  | 11617    | 0.416  | ng/ul# | 94       |

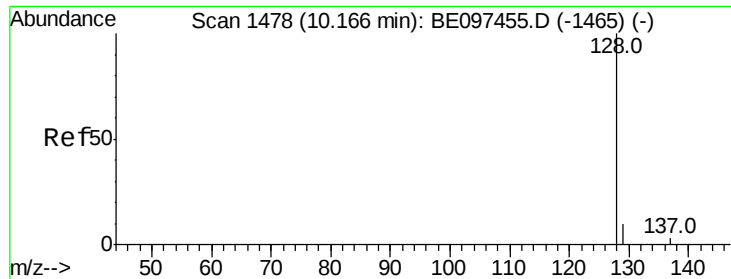
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE091218\  
Data File : BE097470.D  
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Sample : SSTDCCC0.4  
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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :

Quant Time: Sep 13 03:56:00 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 01:51:24 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.402 ng/ul

RT: 10.17 min Scan# 1477

Delta R.T. 0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

Instrument :

BNA\_E

ClientSampleId :

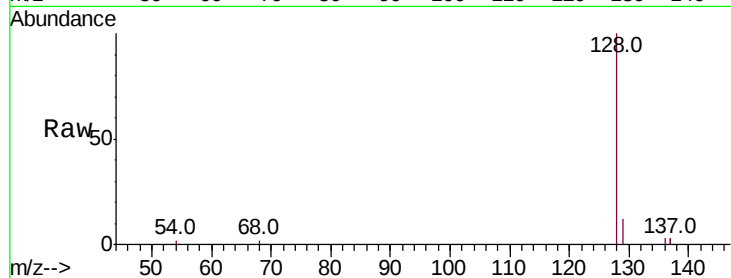
Tot Ion:128 Resp: 5107

Ion Ratio Lower Upper

128 100

129 12.0 11.3 16.9

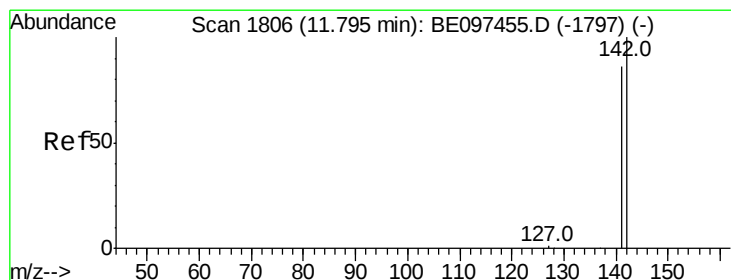
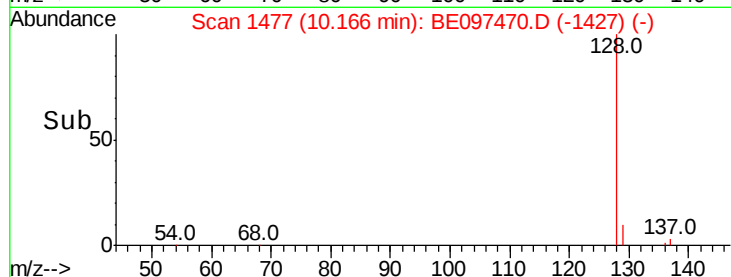
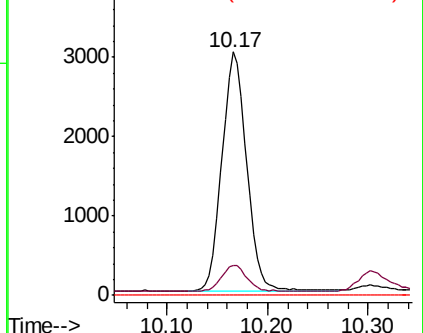
127 0.0 4.0 6.0#



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: 0.457 ng/ul

RT: 11.79 min Scan# 1804

Delta R.T. -0.01 min

Lab File: BE097470.D

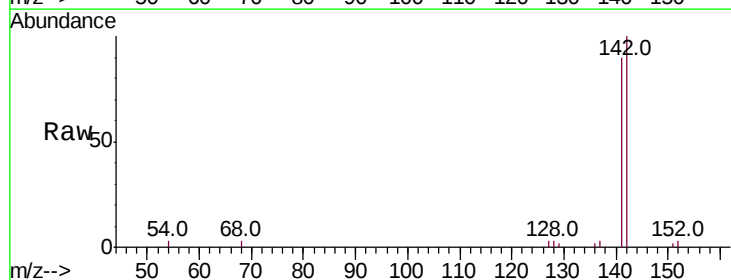
Acq: 13 Sep 2018 3:04

Tgt Ion:142 Resp: 3664

Ion Ratio Lower Upper

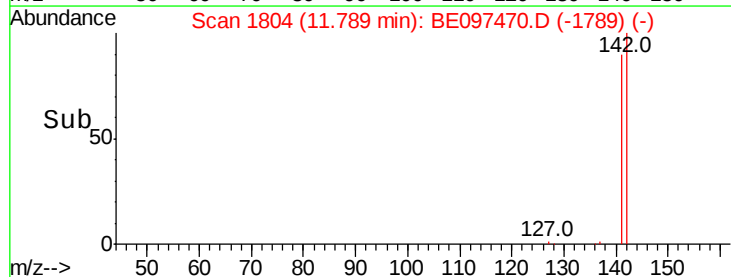
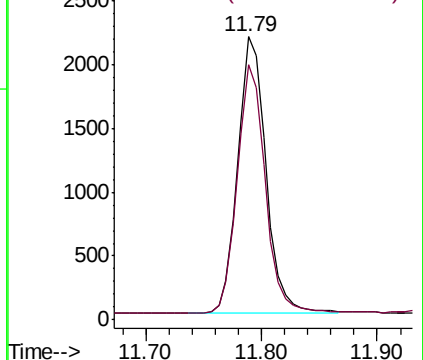
142 100

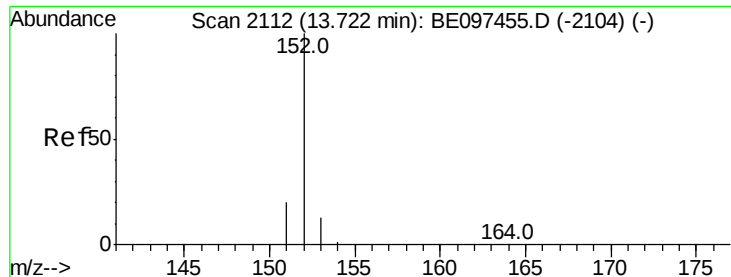
141 89.3 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.453 ng/ul

RT: 13.72 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

Instrument :

BNA\_E

ClientSampleId :

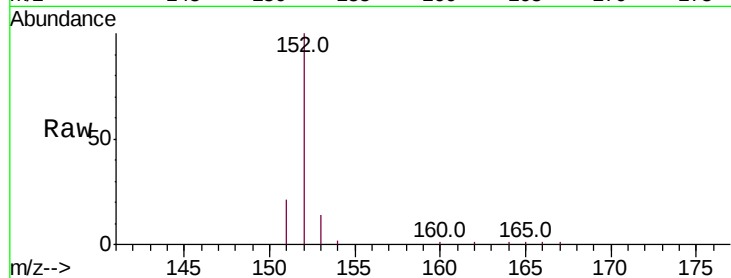
Tot Ion:152 Resp: 5705

Ion Ratio Lower Upper

152 100

151 20.8 17.1 25.7

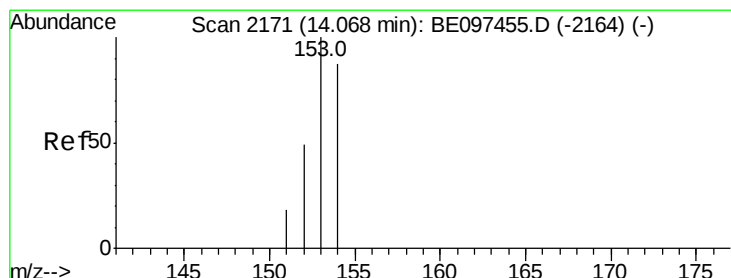
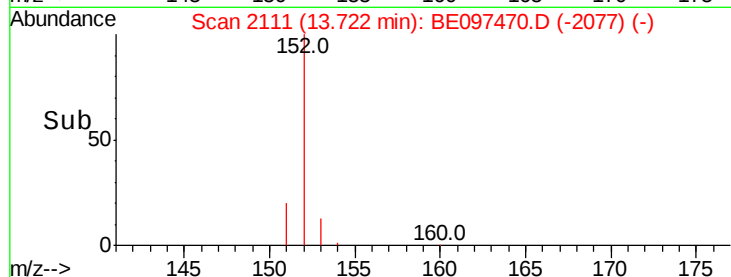
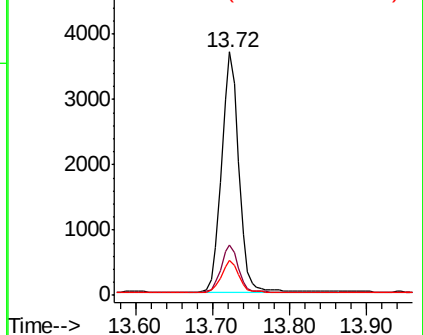
153 14.3 12.8 19.2



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: 0.405 ng/ul

RT: 14.07 min Scan# 2170

Delta R.T. 0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

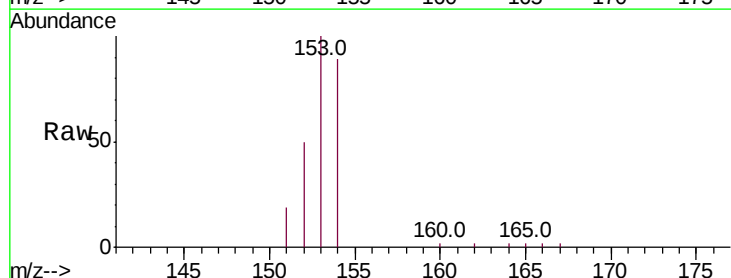
Tgt Ion:153 Resp: 4384

Ion Ratio Lower Upper

153 100

152 50.3 36.0 54.0

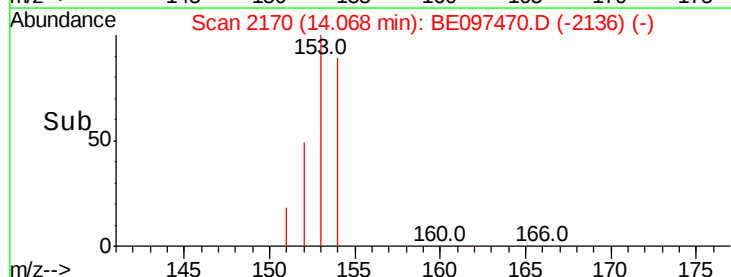
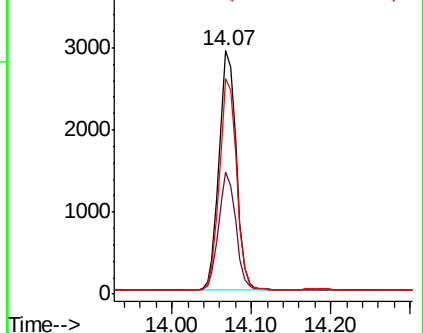
154 88.6 72.0 108.0

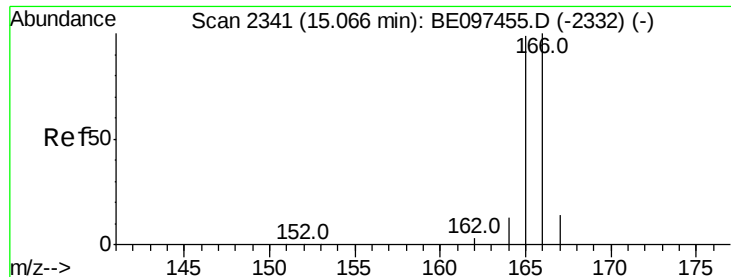


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

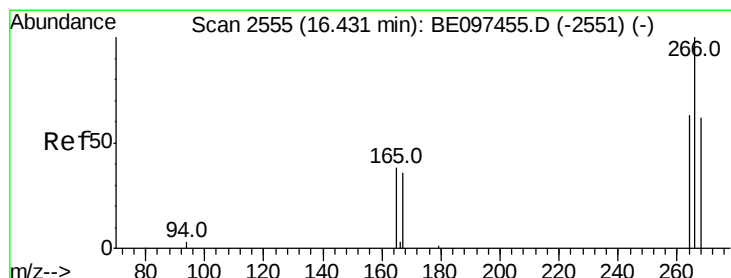
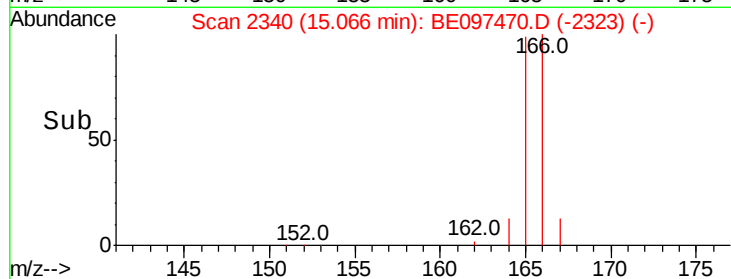
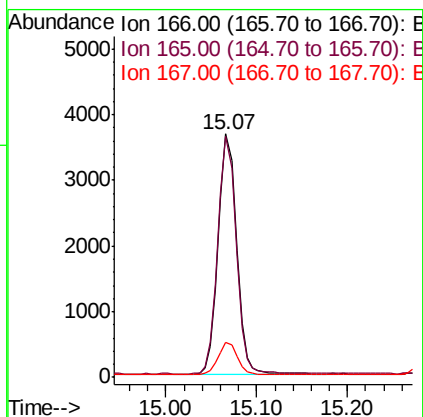
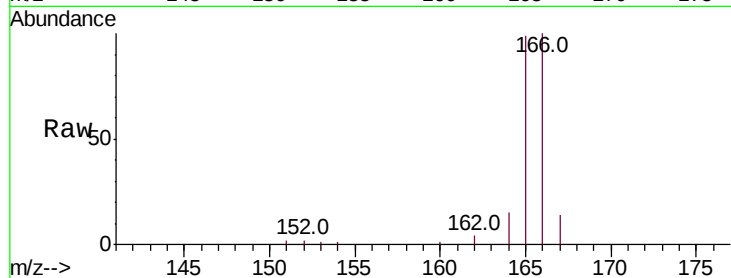




#9  
**Fluorene**  
 Concen: 0.417 ng/ul  
 RT: 15.07 min Scan# 2340  
 Delta R.T. 0.00 min  
 Lab File: BE097470.D  
 Acq: 13 Sep 2018 3:04

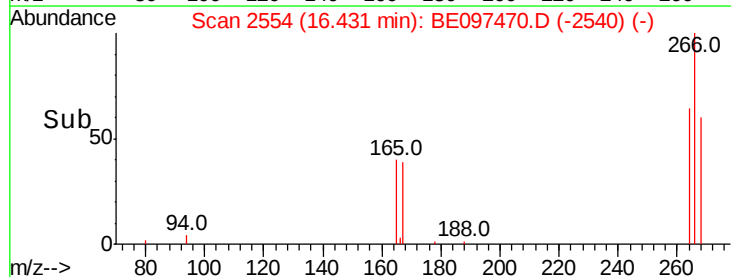
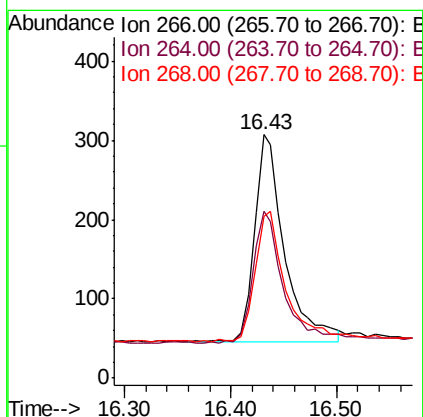
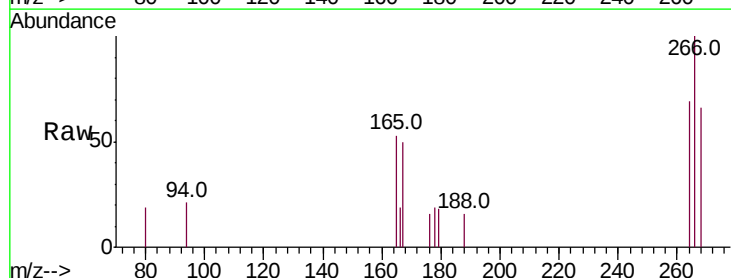
Instrument :  
 BNA\_E  
 ClientSampleId :

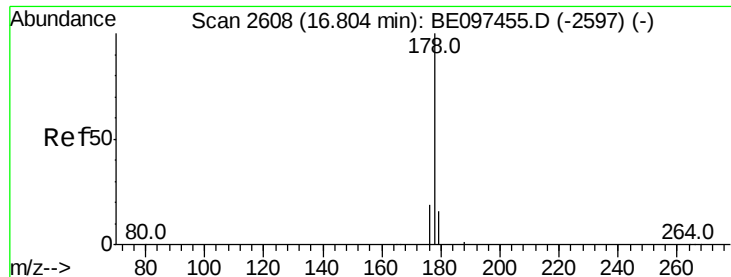
Tot Ion:166 Resp: 5174  
 Ion Ratio Lower Upper  
 166 100  
 165 99.2 73.4 110.2  
 167 14.4 14.6 22.0#



#11  
**Pentachlorophenol**  
 Concen: 0.592 ng/ul  
 RT: 16.43 min Scan# 2554  
 Delta R.T. -0.00 min  
 Lab File: BE097470.D  
 Acq: 13 Sep 2018 3:04

Tgt Ion:266 Resp: 513  
 Ion Ratio Lower Upper  
 266 100  
 264 63.4 47.9 71.9  
 268 65.1 49.8 74.8





#12

Phenanthrene

Concen: 0.400 ng/ul

RT: 16.80 min Scan# 2607

Delta R.T. -0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

Instrument :

BNA\_E

ClientSampleId :

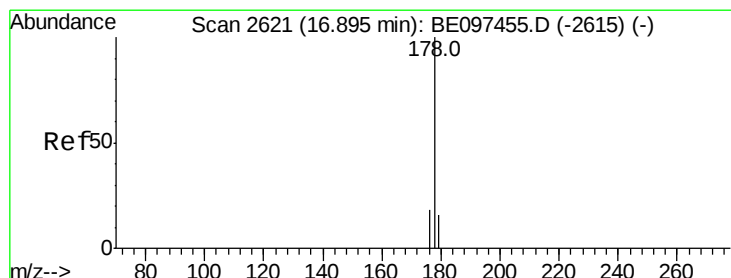
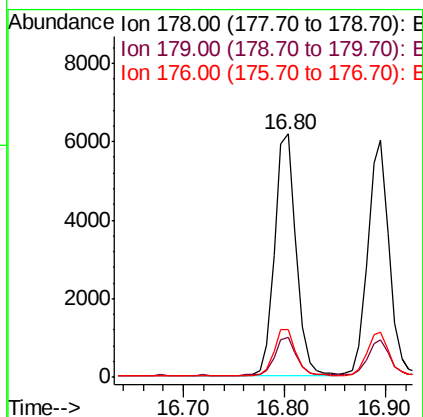
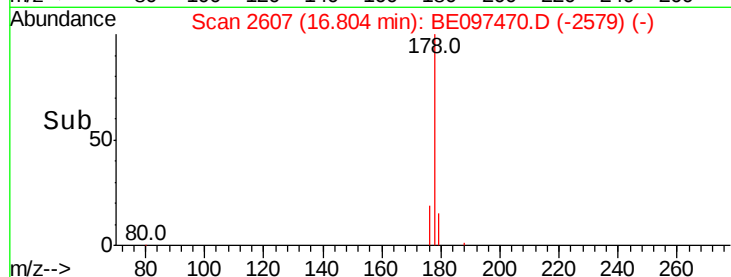
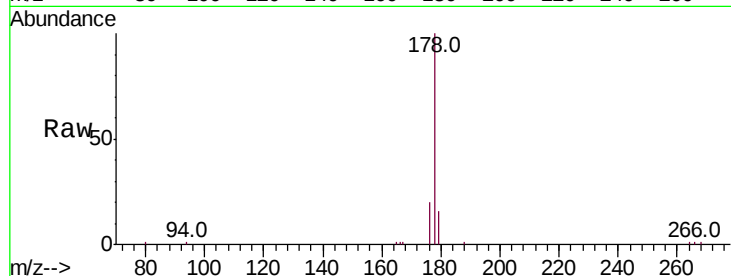
Tot Ion:178 Resp: 9059

Ion Ratio Lower Upper

178 100

179 16.3 18.4 27.6#

176 19.8 13.6 20.4



#13

Anthracene

Concen: 0.459 ng/ul

RT: 16.90 min Scan# 2620

Delta R.T. -0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

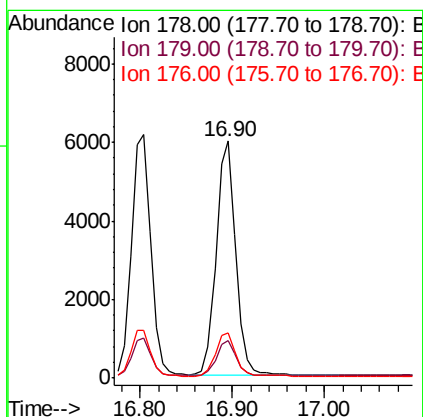
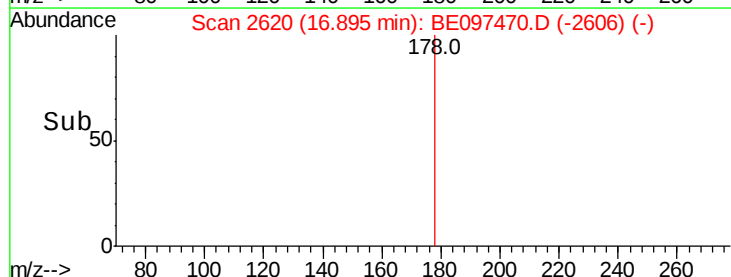
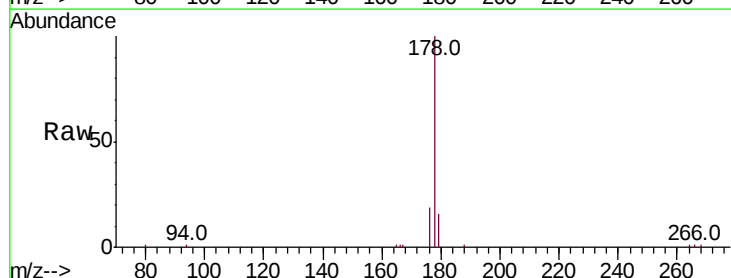
Tgt Ion:178 Resp: 8741

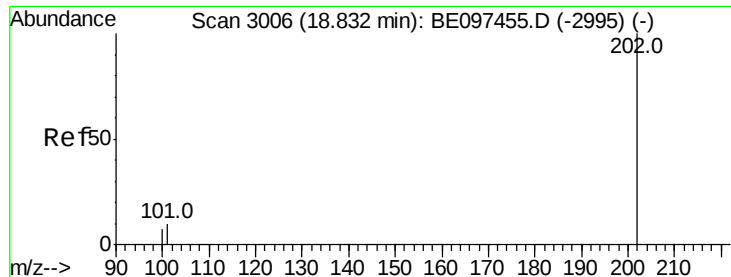
Ion Ratio Lower Upper

178 100

179 15.9 18.1 27.1#

176 18.9 14.7 22.1





#15

Fluoranthene

Concen: 0.378 ng/ul

RT: 18.83 min Scan# 3005

Delta R.T. 0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

Instrument :

BNA\_E

ClientSampleId :

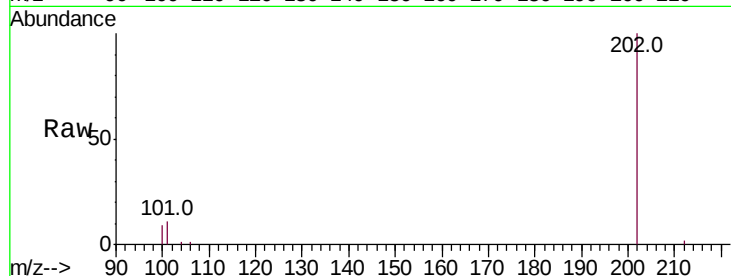
Tot Ion:202 Resp: 10996

Ion Ratio Lower Upper

202 100

101 11.3 0.0 30.3

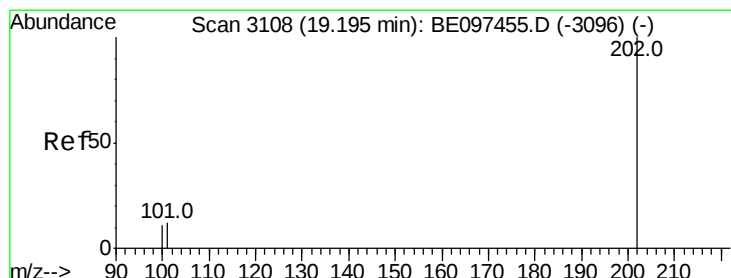
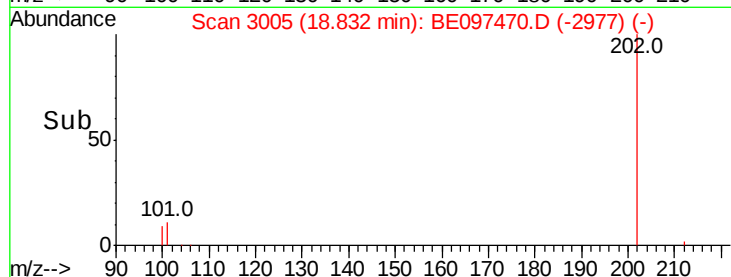
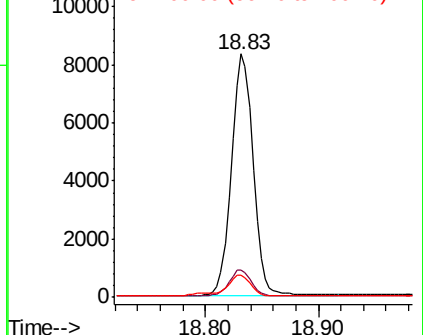
100 9.0 0.0 39.5



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: 0.426 ng/ul

RT: 19.20 min Scan# 3107

Delta R.T. 0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

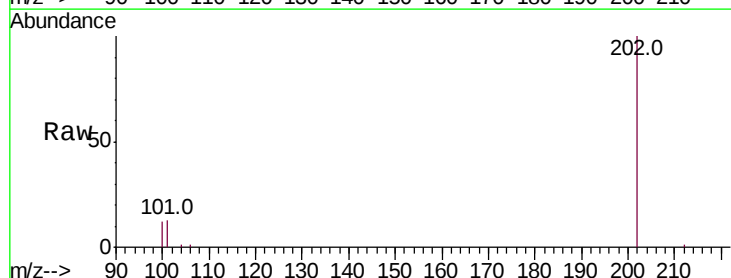
Tgt Ion:202 Resp: 11238

Ion Ratio Lower Upper

202 100

101 13.3 18.2 27.4#

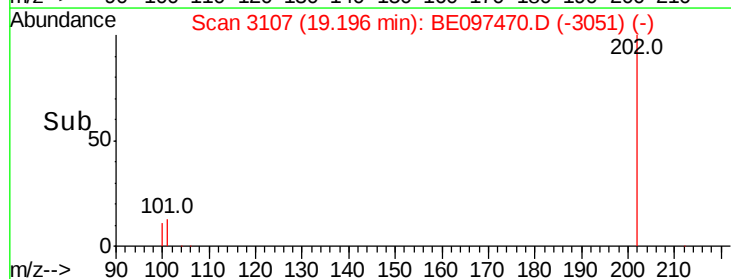
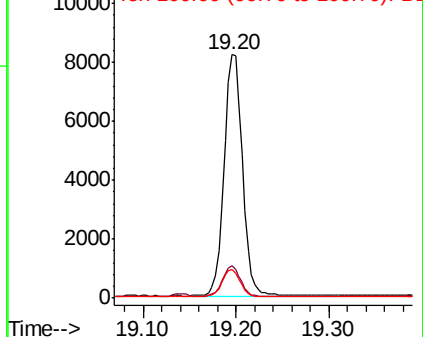
100 11.8 15.6 23.4#

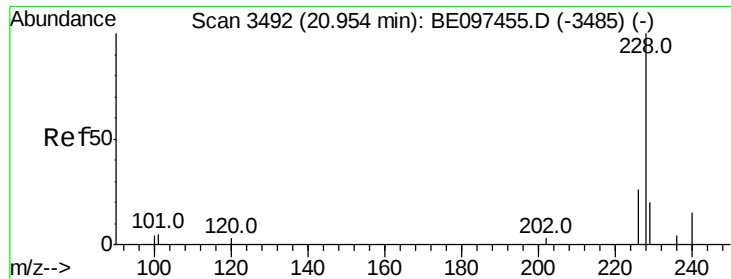


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE

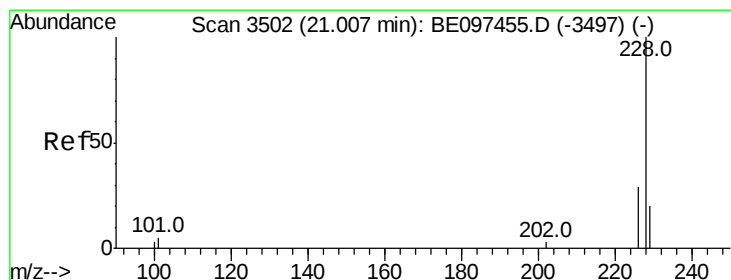
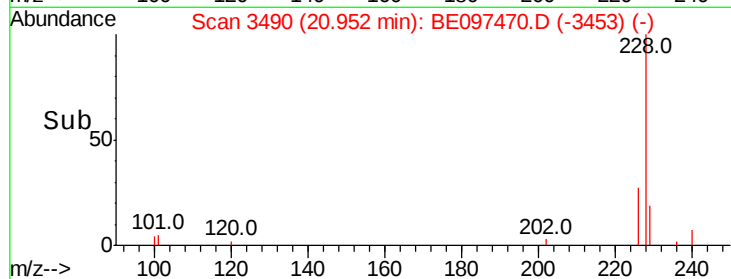
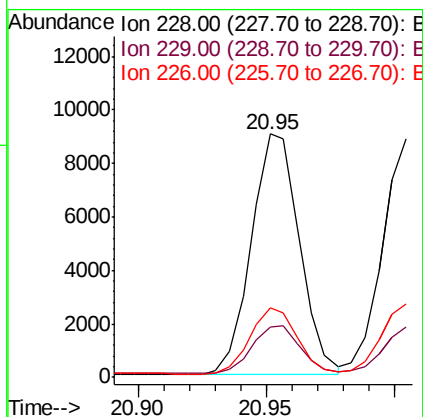
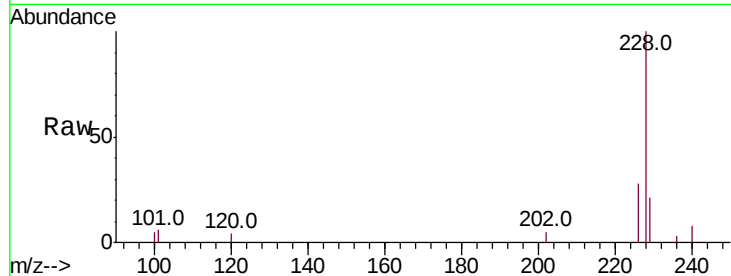




#18  
Benzo(a)anthracene  
Concen: 0.467 ng/ul  
RT: 20.95 min Scan# 3490  
Delta R.T. -0.00 min  
Lab File: BE097470.D  
Acq: 13 Sep 2018 3:04

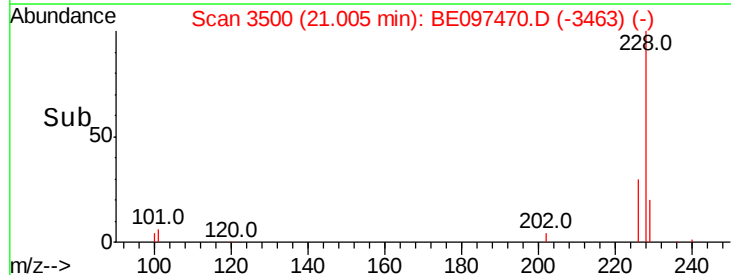
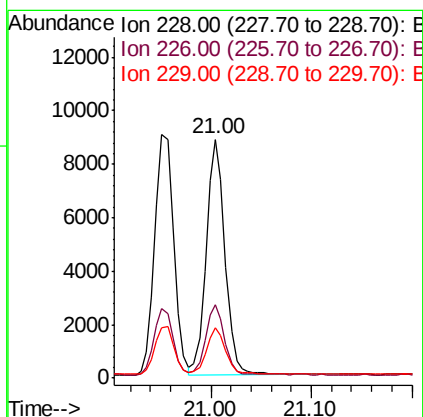
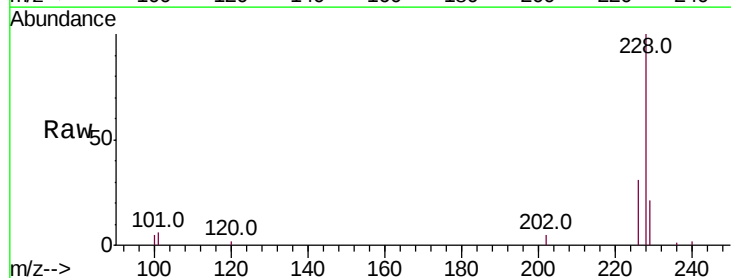
Instrument :  
BNA\_E  
ClientSampleId :

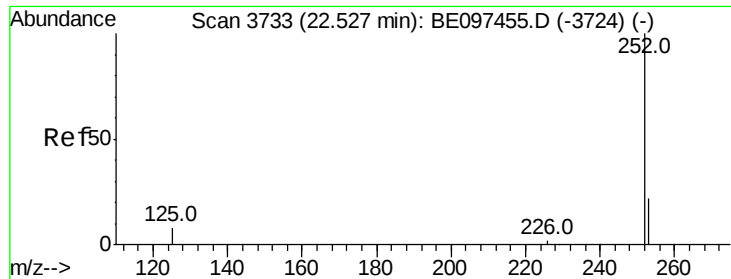
Tot Ion:228 Resp: 11751  
Ion Ratio Lower Upper  
228 100  
229 20.7 22.8 34.2#  
226 28.3 17.0 25.6#



#19  
Chrysene  
Concen: 0.396 ng/ul  
RT: 21.00 min Scan# 3500  
Delta R.T. -0.00 min  
Lab File: BE097470.D  
Acq: 13 Sep 2018 3:04

Tgt Ion:228 Resp: 11470  
Ion Ratio Lower Upper  
228 100  
226 30.6 23.4 35.0  
229 20.8 17.7 26.5





#21

Benzo(b)fluoranthene

Concen: 0.422 ng/ul

RT: 22.53 min Scan# 3731

Delta R.T. 0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

Instrument :

BNA\_E

ClientSampleId :

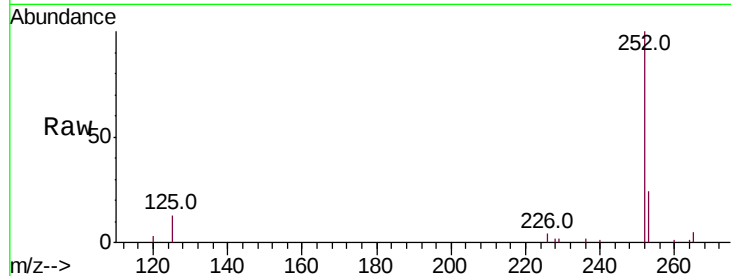
Tot Ion:252 Resp: 11543

Ion Ratio Lower Upper

252 100

253 24.4 0.0 64.2

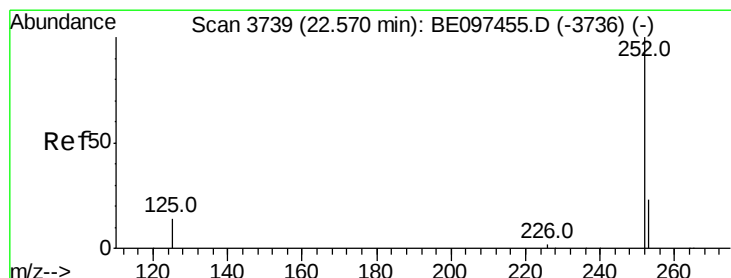
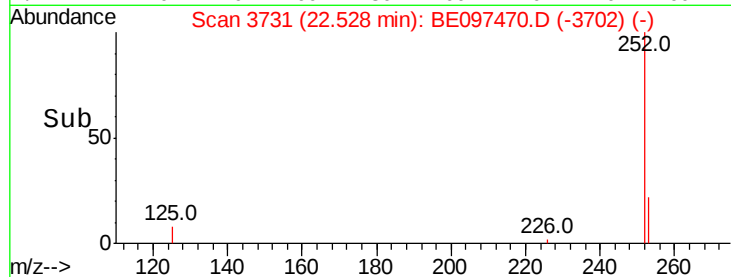
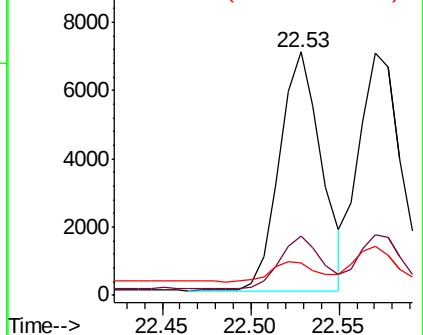
125 13.2 0.0 35.0



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: 0.386 ng/ul

RT: 22.57 min Scan# 3737

Delta R.T. 0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

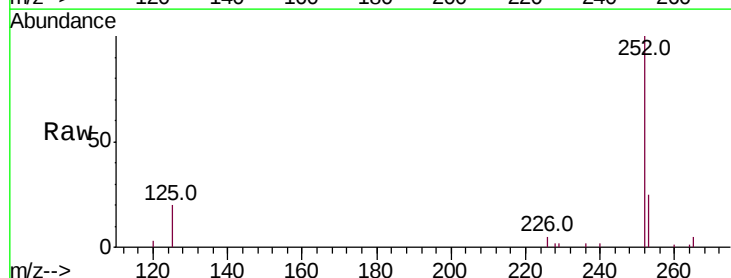
Tgt Ion:252 Resp: 11763

Ion Ratio Lower Upper

252 100

253 24.7 24.5 36.7

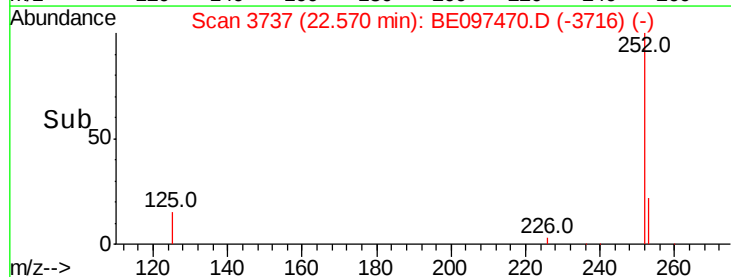
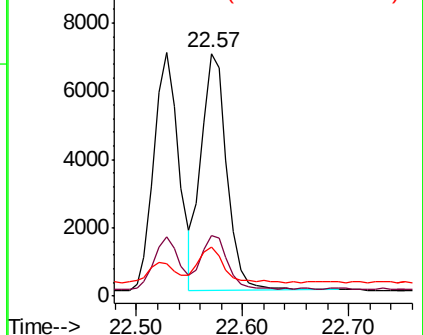
125 20.4 13.7 20.5

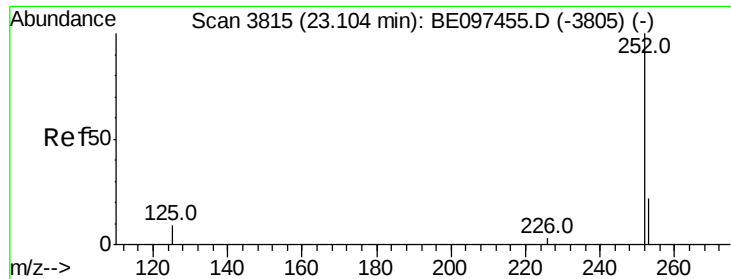


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.447 ng/ul

RT: 23.10 min Scan# 3813

Delta R.T. 0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

Instrument :

BNA\_E

ClientSampleId :

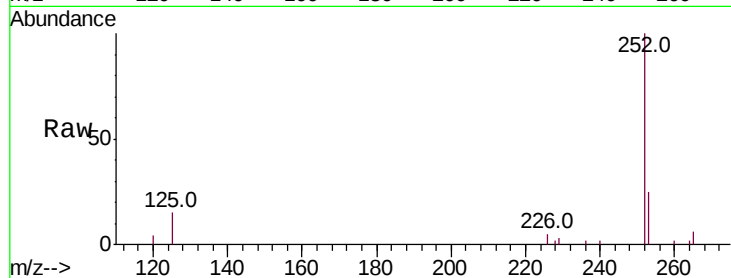
Tot Ion:252 Resp: 11300

Ion Ratio Lower Upper

252 100

253 24.8 28.5 42.7#

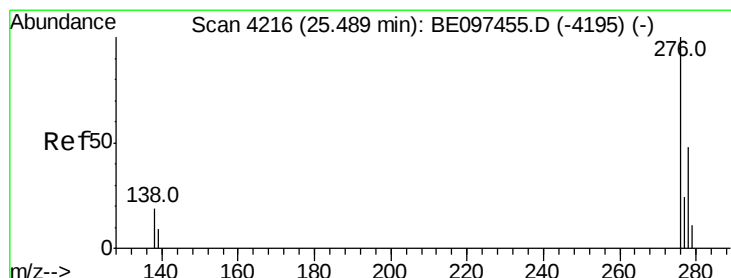
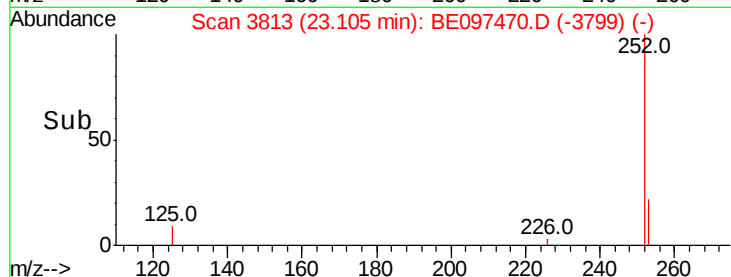
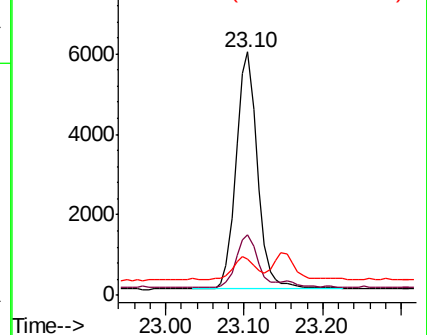
125 15.0 18.1 27.1#



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: 0.434 ng/ul

RT: 25.49 min Scan# 4215

Delta R.T. 0.00 min

Lab File: BE097470.D

Acq: 13 Sep 2018 3:04

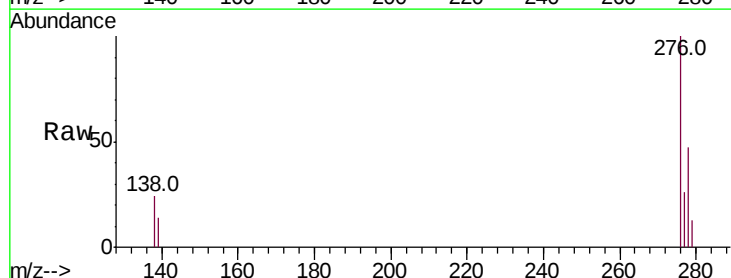
Tgt Ion:276 Resp: 14215

Ion Ratio Lower Upper

276 100

138 21.9 28.0 42.0#

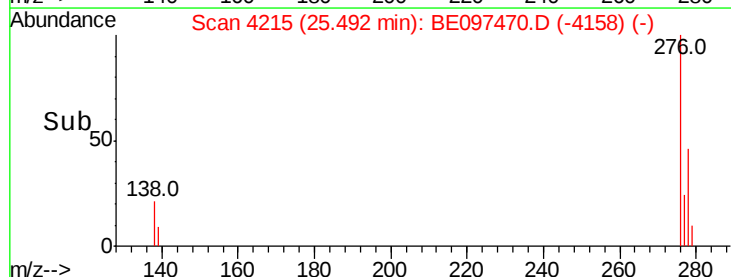
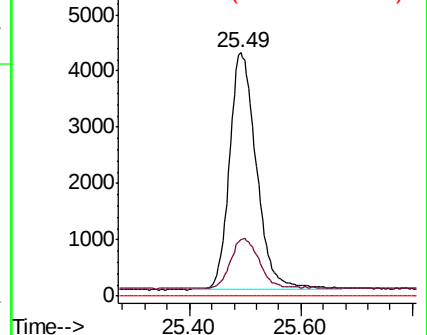
227 0.0 8.0 12.0#

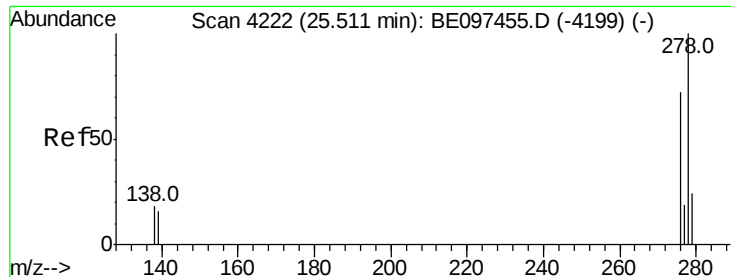


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E



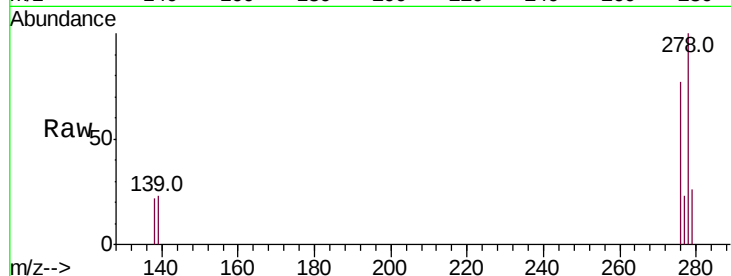


#25  
Dibenzo(a,h)anthracene  
Concen: 0.426 ng/ul  
RT: 25.51 min Scan# 4221  
Delta R.T. 0.00 min  
Lab File: BE097470.D  
Acq: 13 Sep 2018 3:04

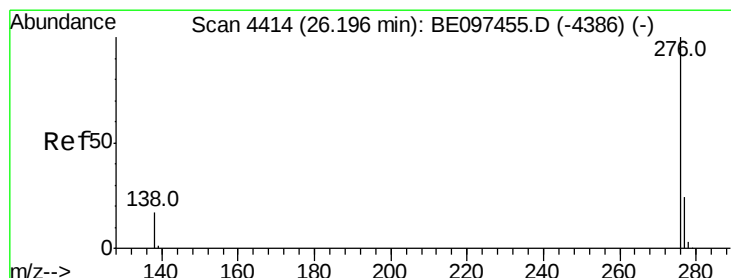
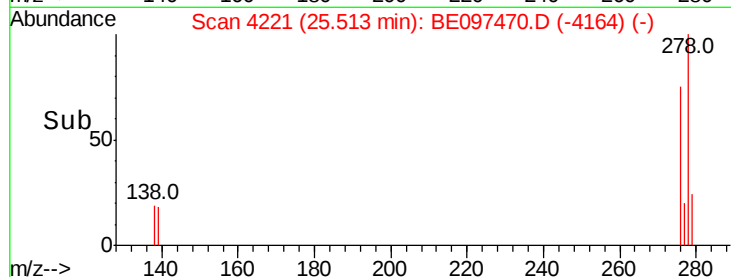
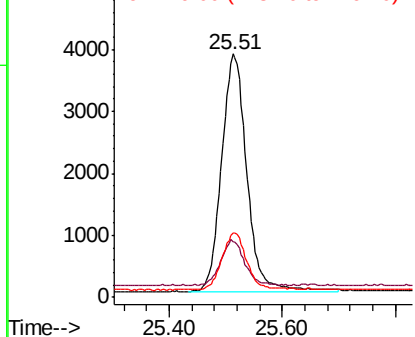
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:278 Resp: 11829  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 22.6  | 17.4  | 26.0  |
| 279 | 26.3  | 25.9  | 38.9  |



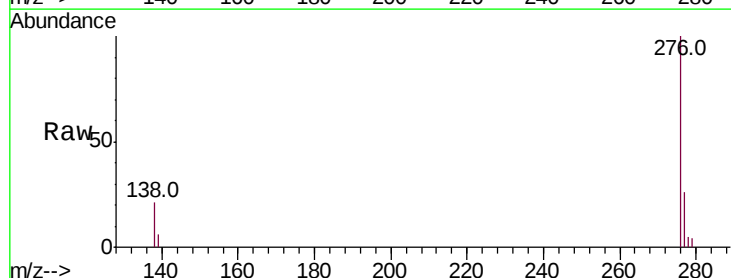
Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#26  
Benzo(g,h,i)perylene  
Concen: 0.416 ng/ul  
RT: 26.19 min Scan# 4412  
Delta R.T. -0.00 min  
Lab File: BE097470.D  
Acq: 13 Sep 2018 3:04

Tgt Ion:276 Resp: 11617  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 21.3  | 21.8  | 32.8# |
| 277 | 25.5  | 20.5  | 30.7  |



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

