

Data Path : Z:\HPCHEM1\BNA E\Data\BE012018\  
 Data File : BE095080.D  
 Acq On : 20 Jan 2018 9:20  
 Operator : SJ/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jan 22 04:24:36 2018  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE011918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 19 18:31:16 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.46  | 152  | 4624     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.28 | 136  | 14458    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.04 | 164  | 8104     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.73 | 188  | 17242    | 0.40 | ng/ul | -0.02    |
| 16) Chrysene-d12          | 21.83 | 240  | 18118    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 24.48 | 264  | 14734    | 0.40 | ng/ul | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.84 | 152  | 9592     | 0.40 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.72 | 212  | 22960    | 0.43 | ng/ul | 0.00     |

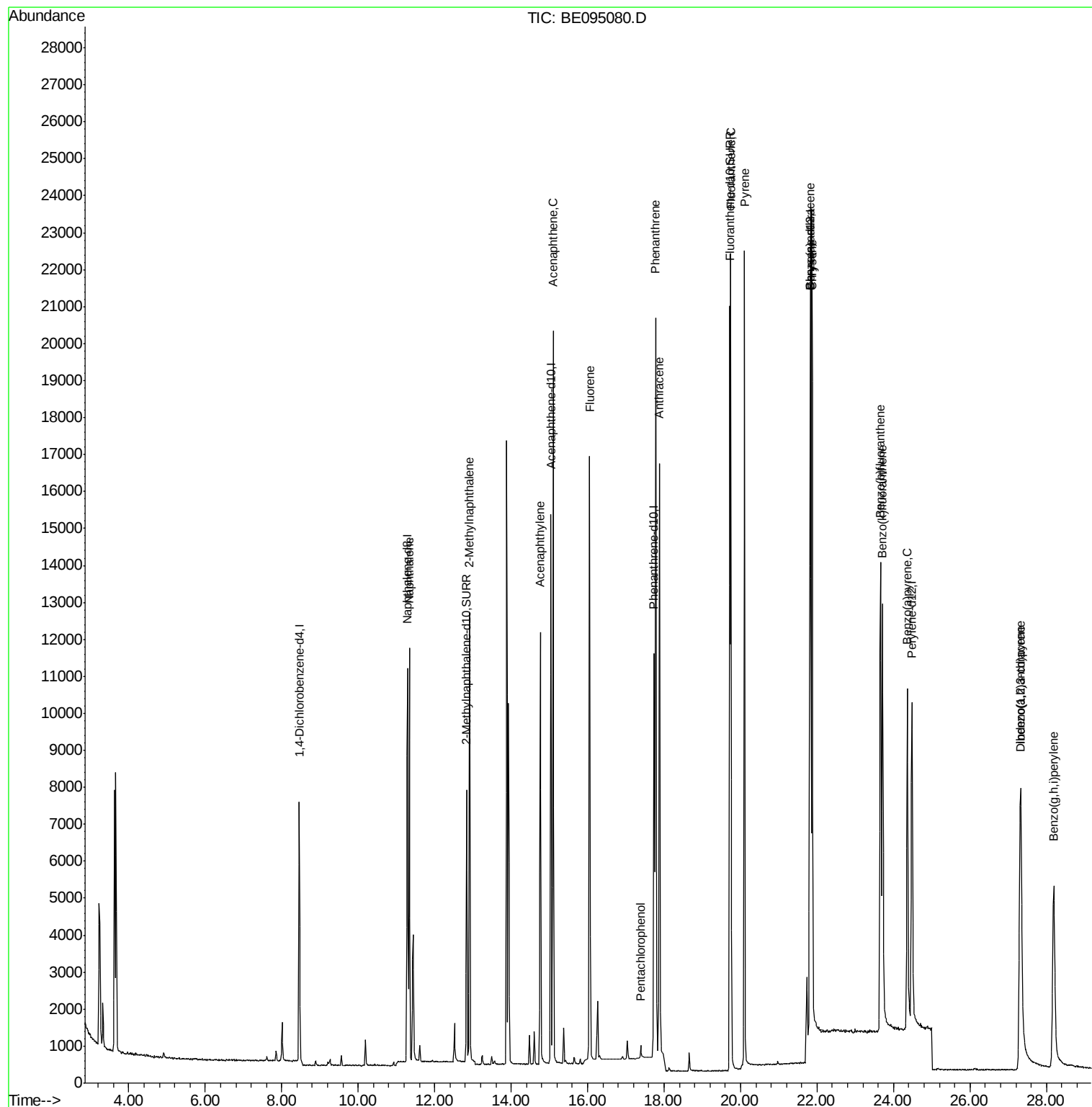
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 3) Naphthalene             | 11.33 | 128  | 15504    | 0.405 | ng/ul# | 89     |
| 5) 2-Methylnaphthalene     | 12.91 | 142  | 10690    | 0.400 | ng/ul  | 99     |
| 7) Acenaphthylene          | 14.77 | 152  | 14269    | 0.393 | ng/ul  | 95     |
| 8) Acenaphthene            | 15.10 | 153  | 11280    | 0.399 | ng/ul  | 93     |
| 9) Fluorene                | 16.05 | 166  | 12396    | 0.411 | ng/ul# | 80     |
| 11) Pentachlorophenol      | 17.38 | 266  | 315      | 0.309 | ng/ul  | 95     |
| 12) Phenanthrene           | 17.78 | 178  | 23001    | 0.502 | ng/ul# | 88     |
| 13) Anthracene             | 17.87 | 178  | 19051    | 0.477 | ng/ul# | 92     |
| 15) Fluoranthene           | 19.75 | 202  | 25314    | 0.433 | ng/ul  | 85     |
| 17) Pyrene                 | 20.10 | 202  | 26690    | 0.405 | ng/ul# | 81     |
| 18) Benzo(a)anthracene     | 21.81 | 228  | 19460    | 0.388 | ng/ul# | 85     |
| 19) Chrysene               | 21.87 | 228  | 22883    | 0.409 | ng/ul  | 96     |
| 21) Benzo(b)fluoranthene   | 23.66 | 252  | 19812    | 0.399 | ng/ul  | 84     |
| 22) Benzo(k)fluoranthene   | 23.71 | 252  | 18398    | 0.402 | ng/ul# | 86     |
| 23) Benzo(a)pyrene         | 24.36 | 252  | 17050    | 0.403 | ng/ul# | 79     |
| 24) Indeno(1,2,3-cd)pyrene | 27.31 | 276  | 15504    | 0.412 | ng/ul# | 80     |
| 25) Dibenzo(a,h)anthracene | 27.34 | 278  | 11255    | 0.419 | ng/ul  | 91     |
| 26) Benzo(g,h,i)perylene   | 28.19 | 276  | 15112    | 0.404 | ng/ul  | 96     |

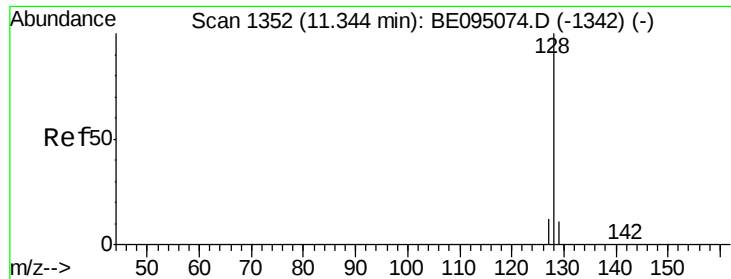
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_E  
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Quant Time: Jan 22 04:24:36 2018  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 19 18:31:16 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.405 ng/ul

RT: 11.33 min Scan# 1351

Delta R.T. -0.01 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

Instrument :

BNA\_E

ClientSampleId :

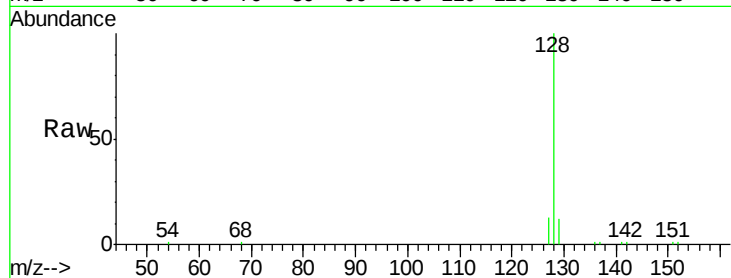
Tot Ion:128 Resp: 15504

Ion Ratio Lower Upper

128 100

129 11.8 11.3 16.9

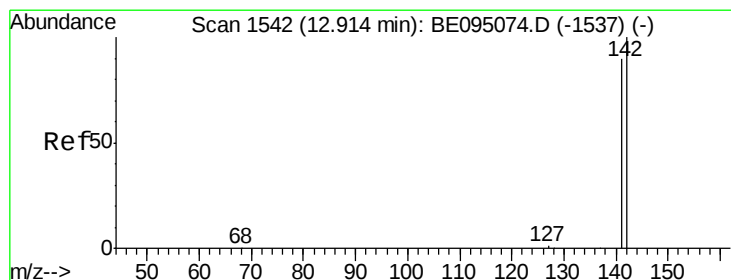
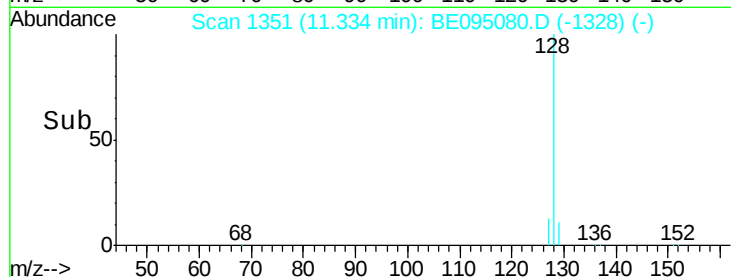
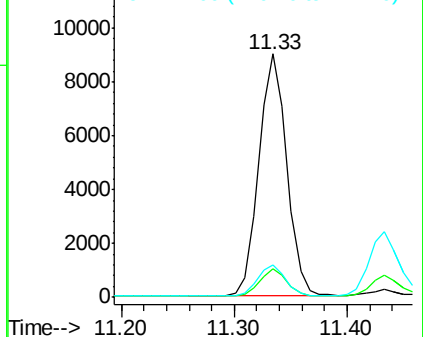
127 13.3 4.0 6.0#



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: 0.400 ng/ul

RT: 12.91 min Scan# 1542

Delta R.T. -0.00 min

Lab File: BE095080.D

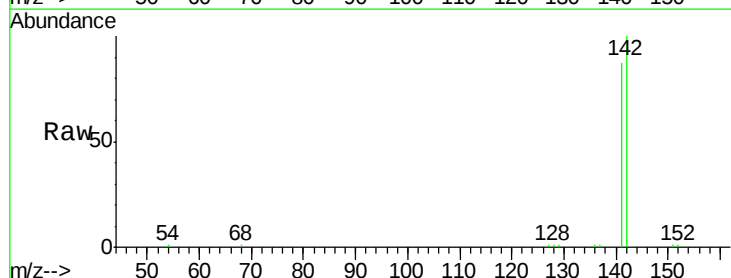
Acq: 20 Jan 2018 9:20

Tgt Ion:142 Resp: 10690

Ion Ratio Lower Upper

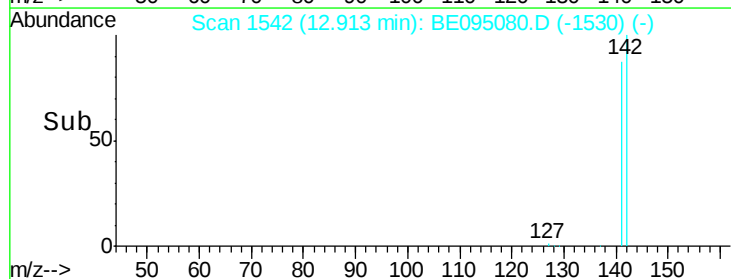
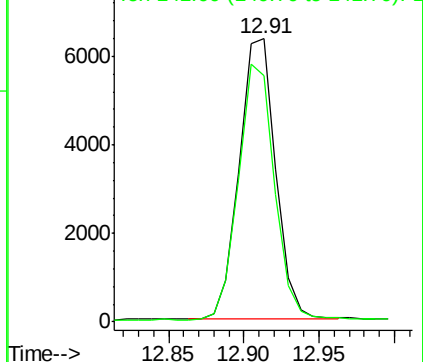
142 100

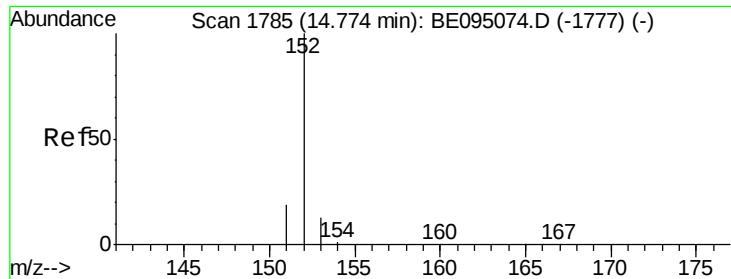
141 90.0 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.393 ng/ul

RT: 14.77 min Scan# 1784

Delta R.T. -0.01 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

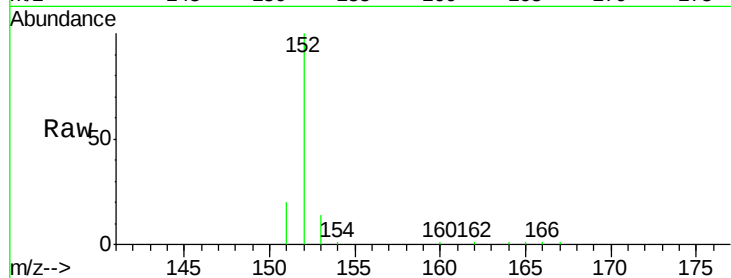
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:152 Resp: 14269

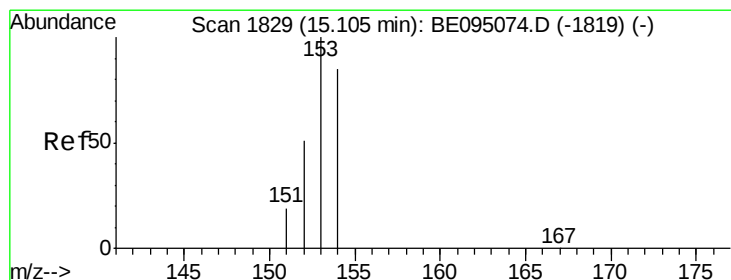
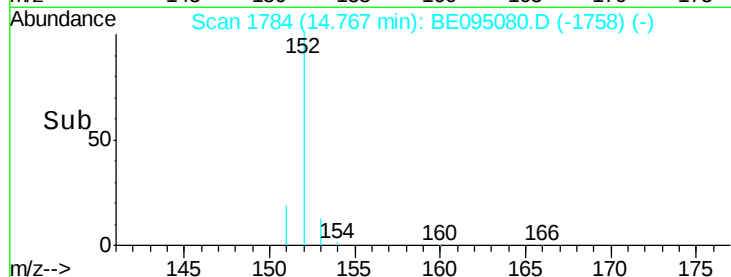
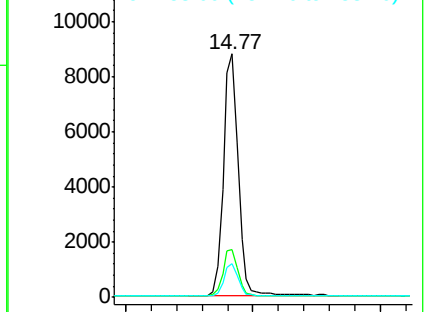
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 151 | 19.6  | 17.1  | 25.7  |
| 153 | 13.6  | 12.8  | 19.2  |



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: 0.399 ng/ul

RT: 15.10 min Scan# 1828

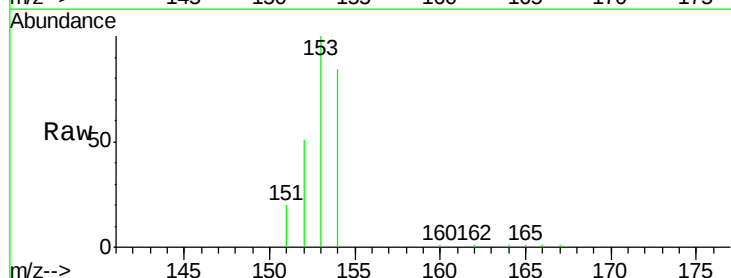
Delta R.T. -0.01 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

Tgt Ion:153 Resp: 11280

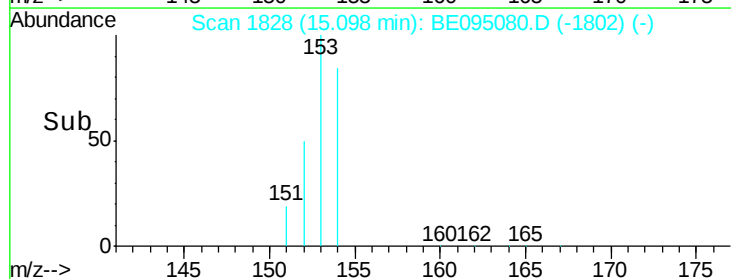
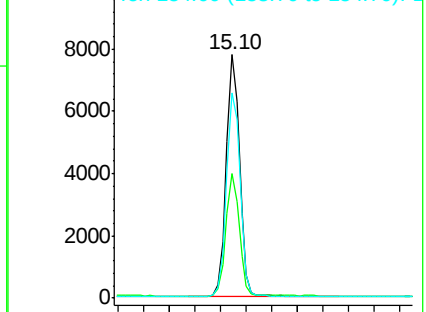
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100   |       |       |
| 152 | 51.0  | 36.0  | 54.0  |
| 154 | 84.4  | 72.0  | 108.0 |

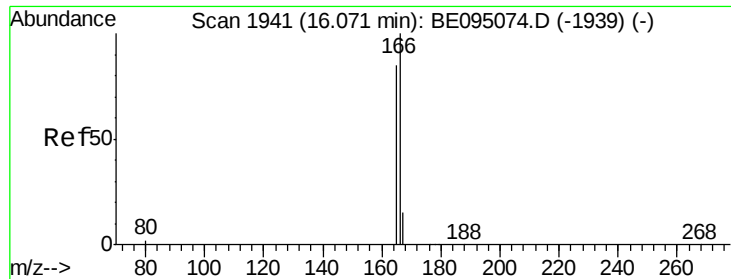


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

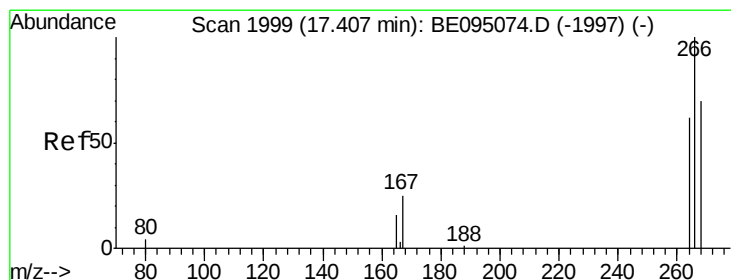
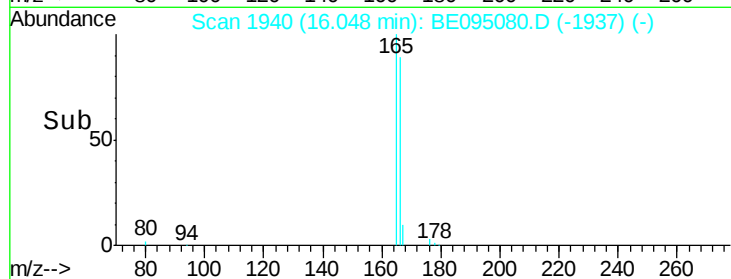
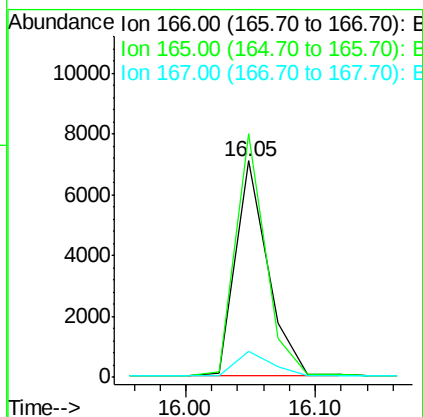
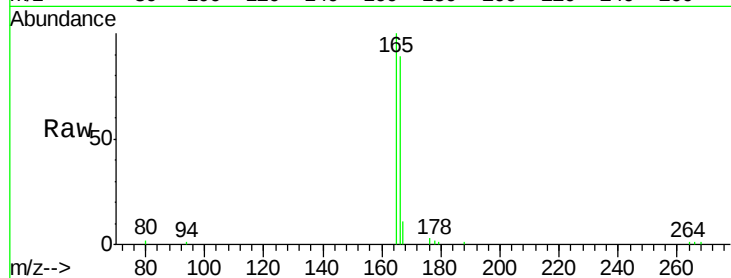




#9  
**Fluorene**  
 Concen: 0.411 ng/ul  
 RT: 16.05 min Scan# 1940  
 Delta R.T. -0.02 min  
 Lab File: BE095080.D  
 Acq: 20 Jan 2018 9:20

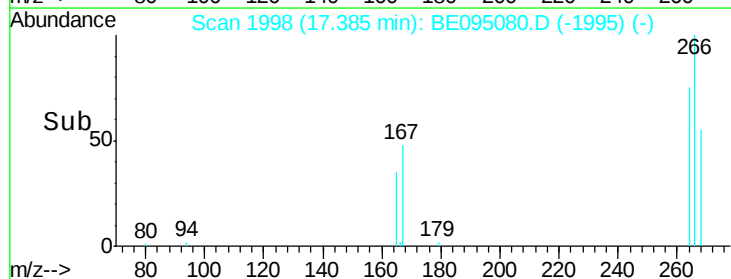
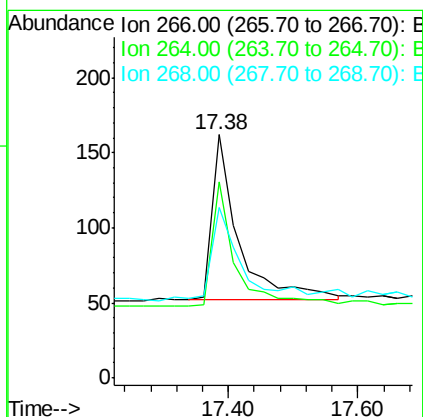
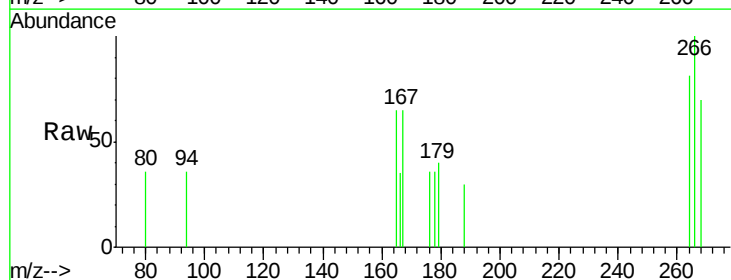
Instrument :  
 BNA\_E  
 ClientSampleId :

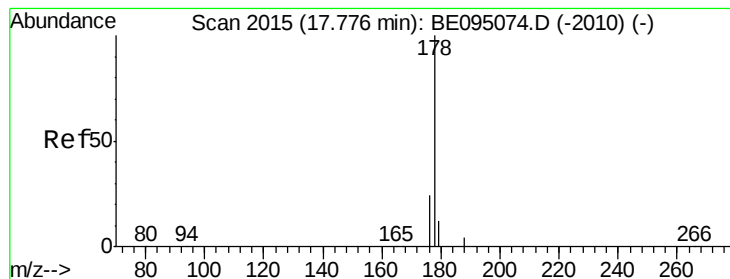
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 166     | 100   |       |        |
| 165     | 112.5 | 73.4  | 110.2# |
| 167     | 12.0  | 14.6  | 22.0#  |



#11  
**Pentachlorophenol**  
 Concen: 0.309 ng/ul  
 RT: 17.38 min Scan# 1998  
 Delta R.T. -0.02 min  
 Lab File: BE095080.D  
 Acq: 20 Jan 2018 9:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 67.3  | 47.9  | 71.9  |
| 268     | 62.2  | 49.8  | 74.8  |





#12

Phenanthrene

Concen: 0.502 ng/ul

RT: 17.78 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

Instrument :

BNA\_E

ClientSampleId :

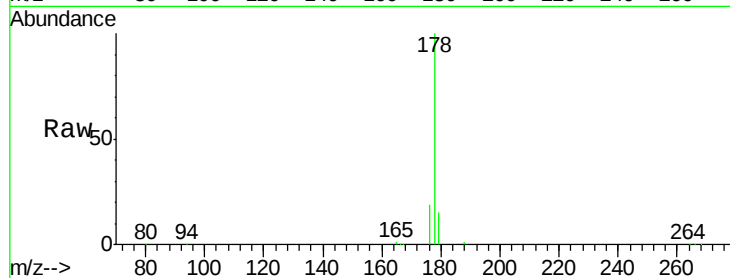
Tot Ion:178 Resp: 23001

Ion Ratio Lower Upper

178 100

179 15.0 18.4 27.6#

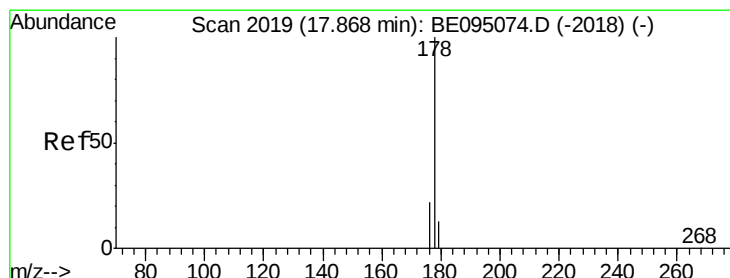
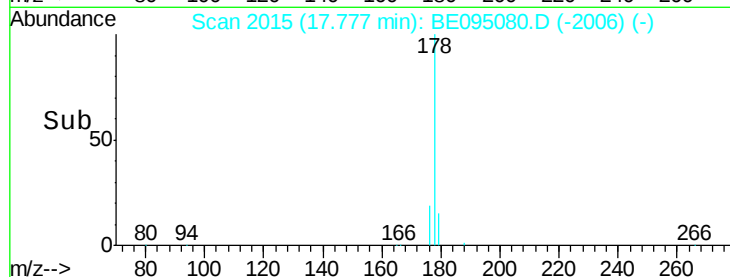
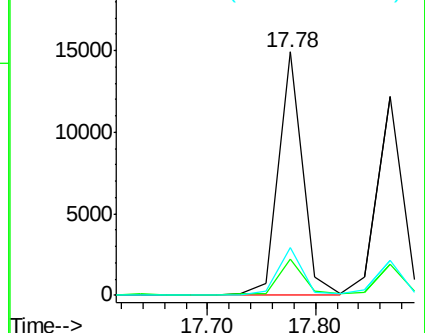
176 19.5 13.6 20.4



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: 0.477 ng/ul

RT: 17.87 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

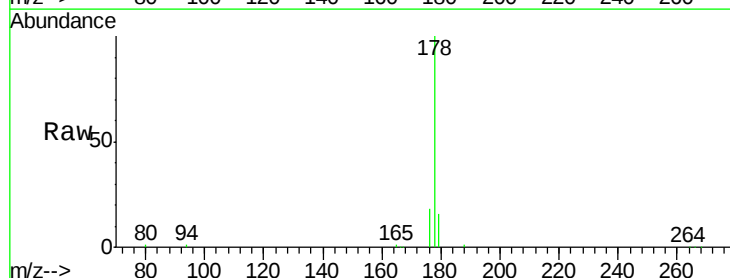
Tgt Ion:178 Resp: 19051

Ion Ratio Lower Upper

178 100

179 15.8 18.1 27.1#

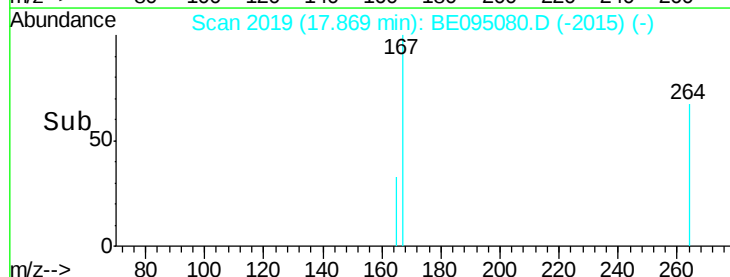
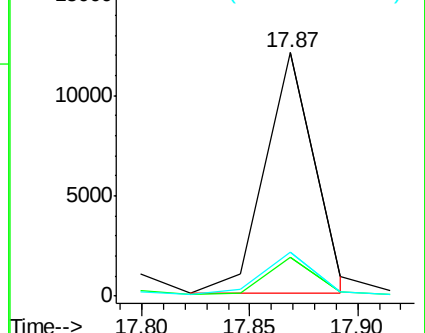
176 17.9 14.7 22.1

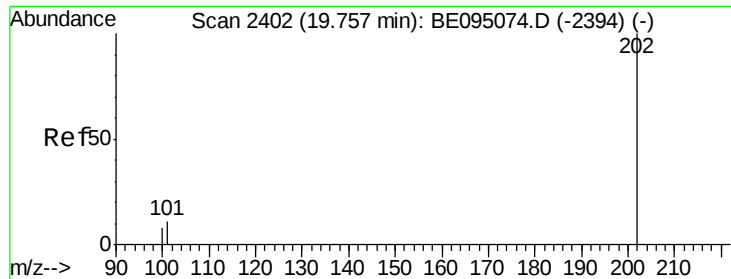


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

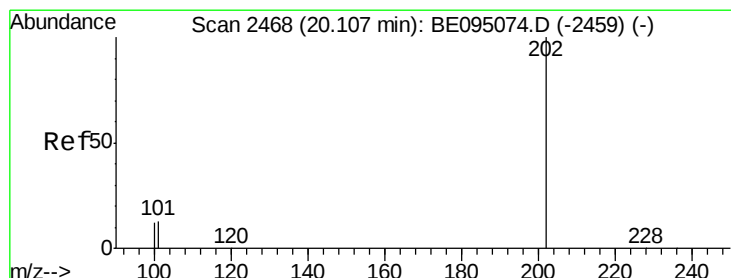
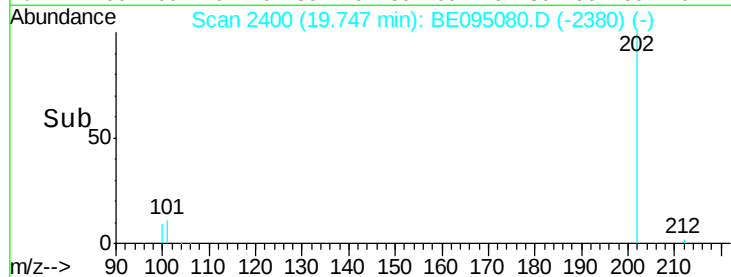
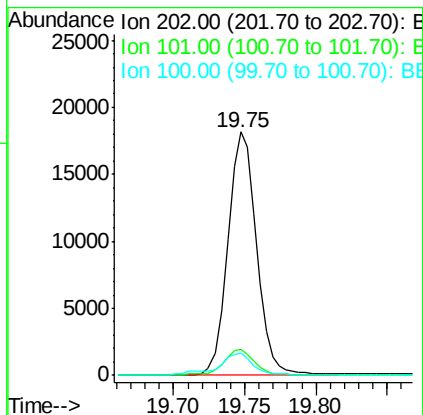
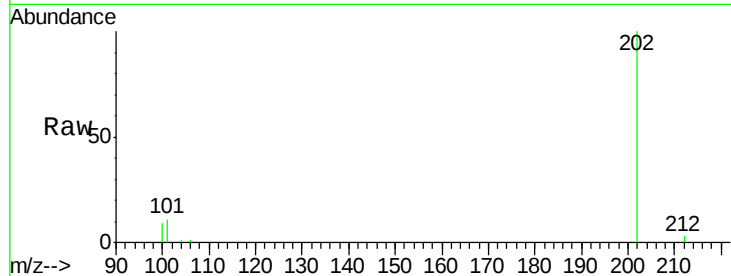




#15  
Fluoranthene  
Concen: 0.433 ng/ul  
RT: 19.75 min Scan# 2400  
Delta R.T. -0.01 min  
Lab File: BE095080.D  
Acq: 20 Jan 2018 9:20

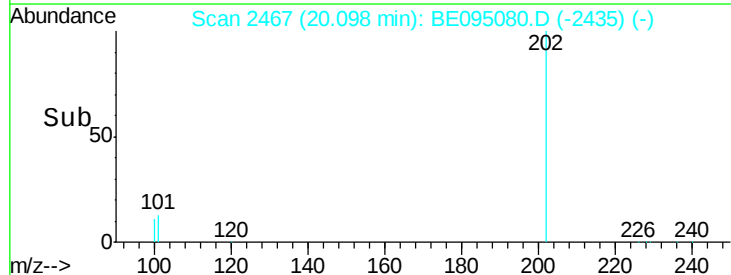
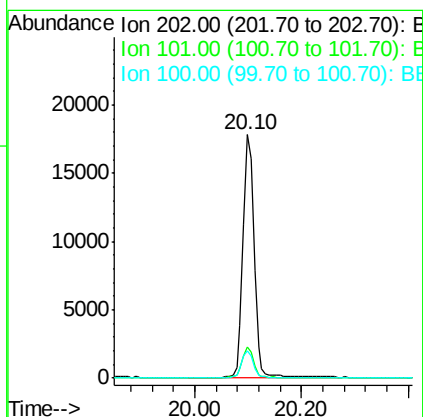
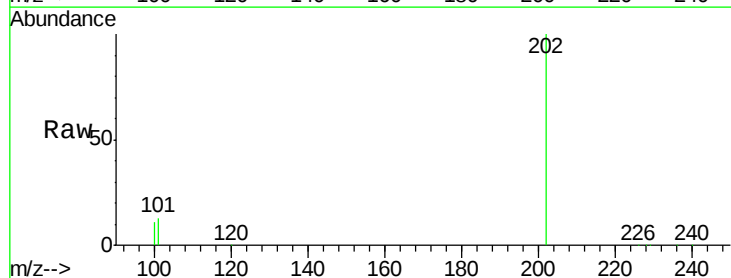
Instrument :  
BNA\_E  
ClientSampleId :

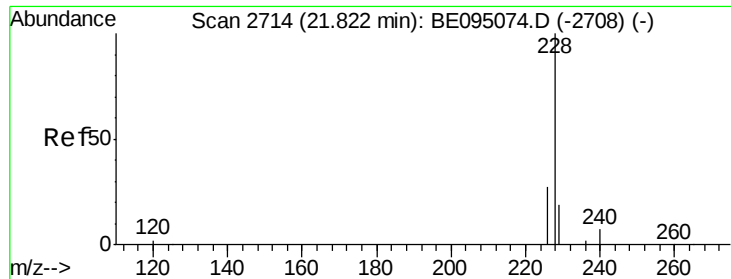
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.8  | 0.0   | 30.3  |
| 100     | 9.0   | 0.0   | 39.5  |



#17  
Pyrene  
Concen: 0.405 ng/ul  
RT: 20.10 min Scan# 2467  
Delta R.T. -0.01 min  
Lab File: BE095080.D  
Acq: 20 Jan 2018 9:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.0  | 18.2  | 27.4# |
| 100     | 11.3  | 15.6  | 23.4# |





#18

Benzo(a)anthracene

Concen: 0.388 ng/ul

RT: 21.81 min Scan# 2713

Delta R.T. -0.01 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

Instrument :

BNA\_E

ClientSampleId :

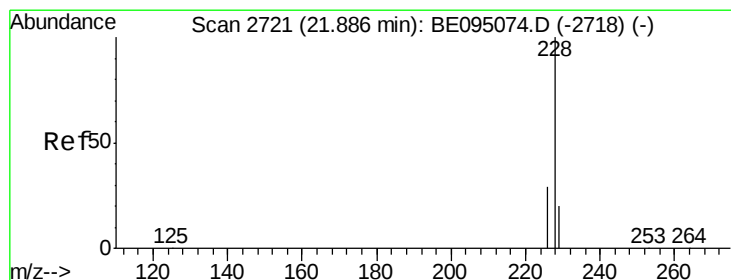
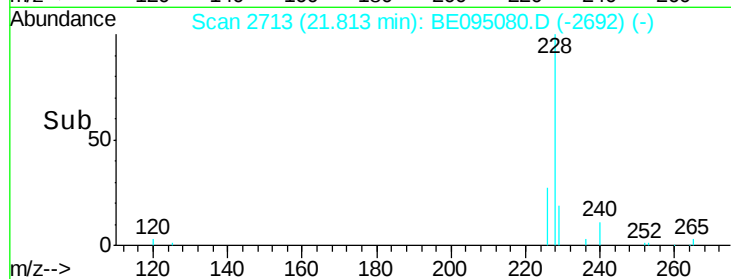
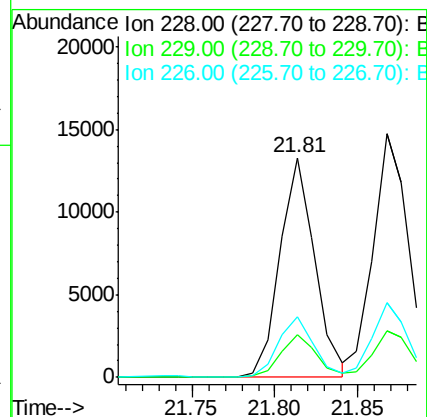
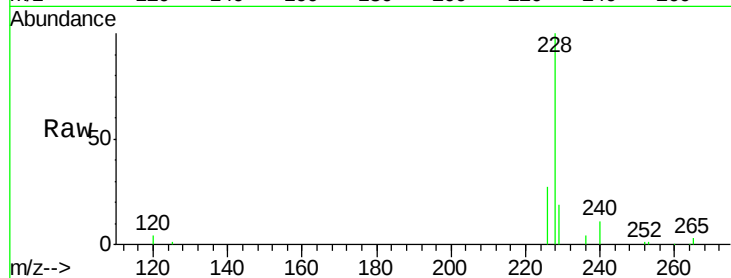
Tot Ion:228 Resp: 19460

Ion Ratio Lower Upper

228 100

229 19.3 22.8 34.2#

226 27.3 17.0 25.6#



#19

Chrysene

Concen: 0.409 ng/ul

RT: 21.87 min Scan# 2719

Delta R.T. -0.02 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

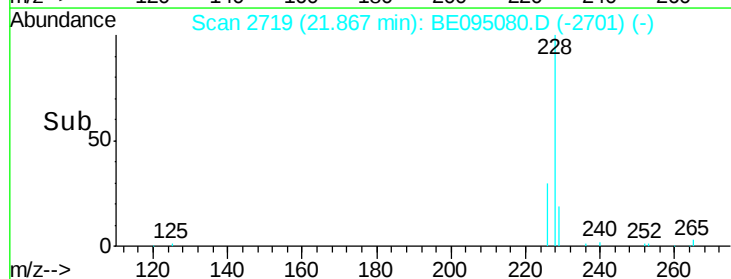
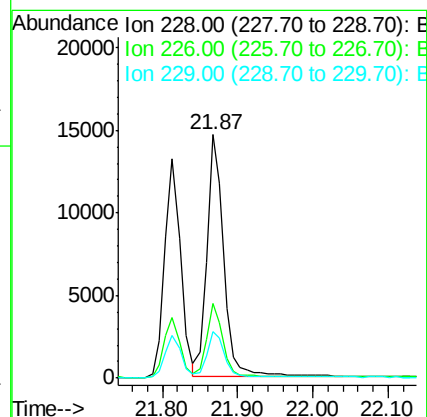
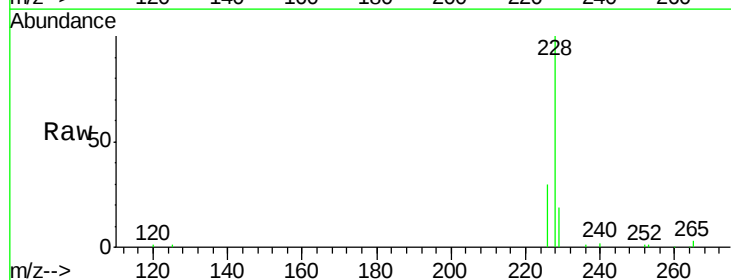
Tgt Ion:228 Resp: 22883

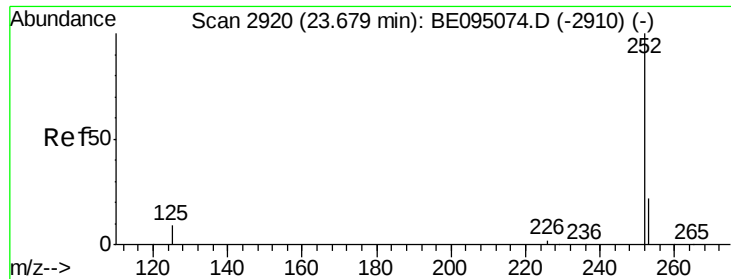
Ion Ratio Lower Upper

228 100

226 30.5 23.4 35.0

229 19.3 17.7 26.5





#21

Benzo(b)fluoranthene

Concen: 0.399 ng/ul

RT: 23.66 min Scan# 2918

Delta R.T. -0.02 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

Instrument :

BNA\_E

ClientSampleId :

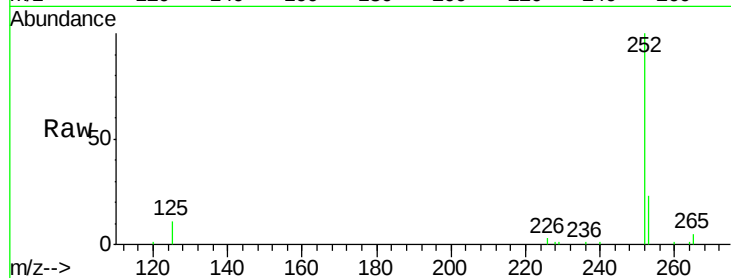
Tot Ion:252 Resp: 19812

Ion Ratio Lower Upper

252 100

253 23.1 0.0 64.2

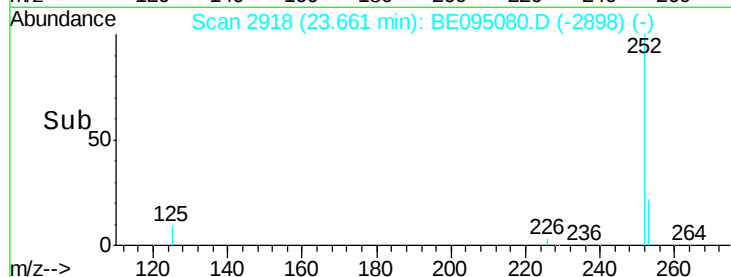
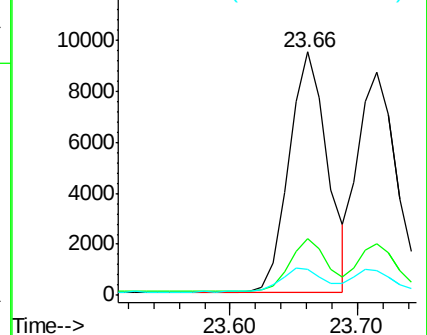
125 10.9 0.0 35.0



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: 0.402 ng/ul

RT: 23.71 min Scan# 2924

Delta R.T. -0.02 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

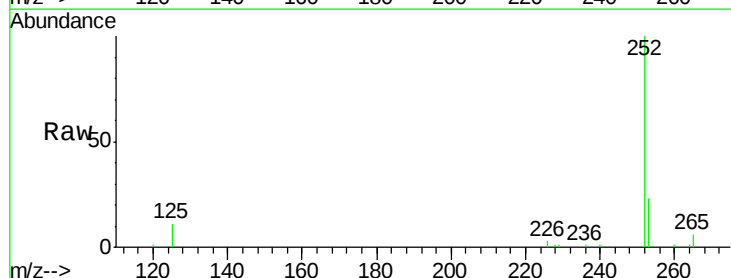
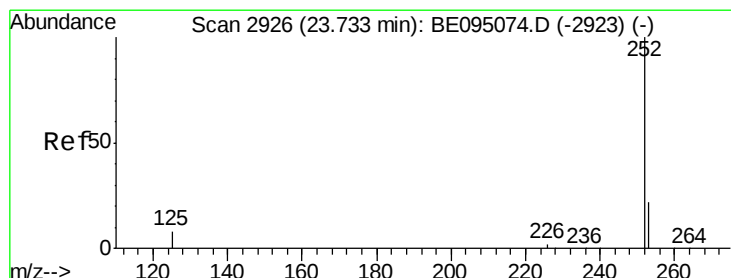
Tgt Ion:252 Resp: 18398

Ion Ratio Lower Upper

252 100

253 23.2 24.5 36.7#

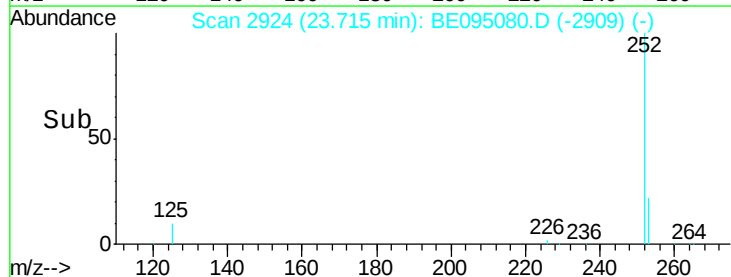
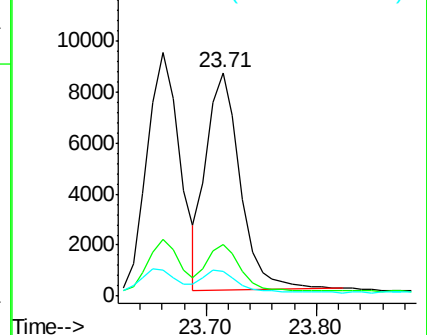
125 11.2 13.7 20.5#

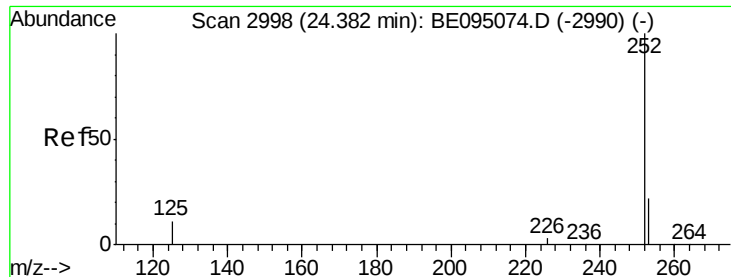


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.403 ng/ul

RT: 24.36 min Scan# 2996

Delta R.T. -0.02 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

Instrument :

BNA\_E

ClientSampleId :

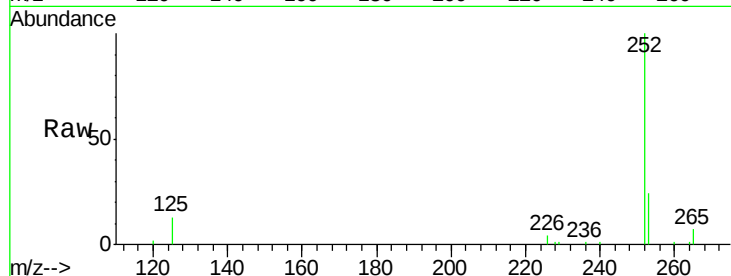
Tot Ion:252 Resp: 17050

Ion Ratio Lower Upper

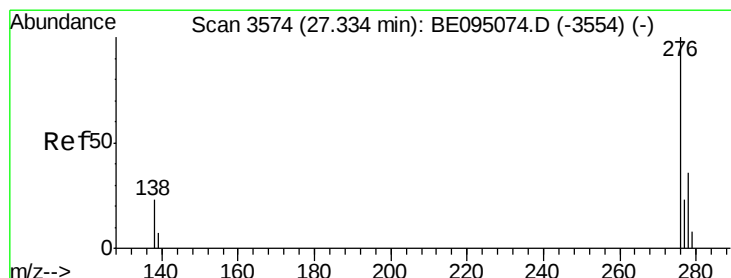
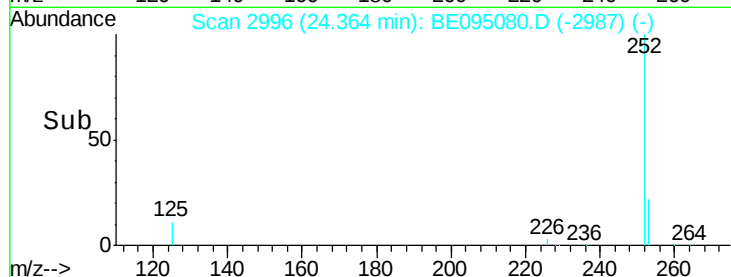
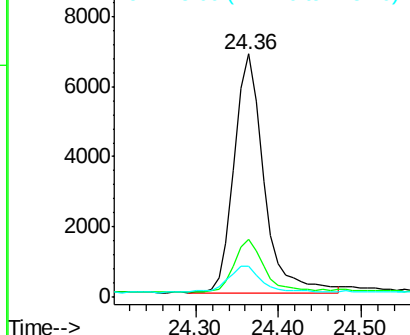
252 100

253 23.7 28.5 42.7#

125 12.6 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: 0.412 ng/ul

RT: 27.31 min Scan# 3569

Delta R.T. -0.02 min

Lab File: BE095080.D

Acq: 20 Jan 2018 9:20

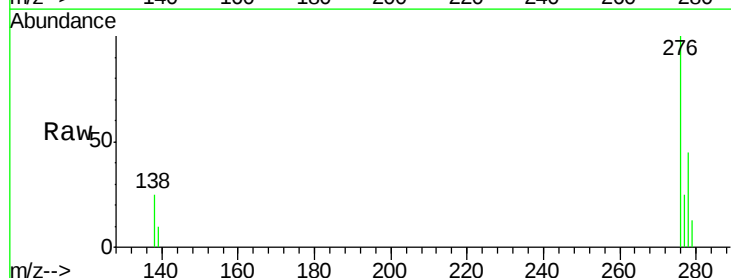
Tgt Ion:276 Resp: 15504

Ion Ratio Lower Upper

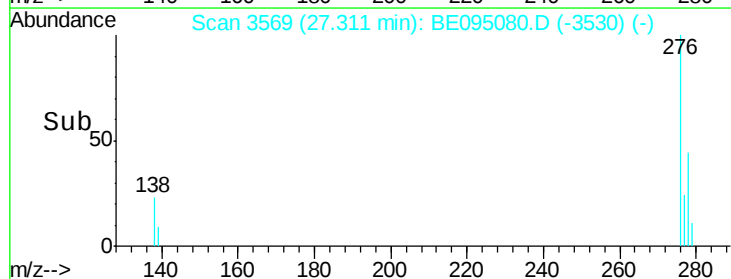
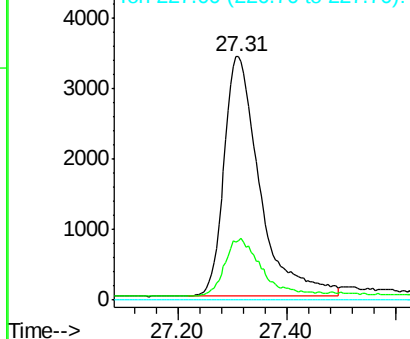
276 100

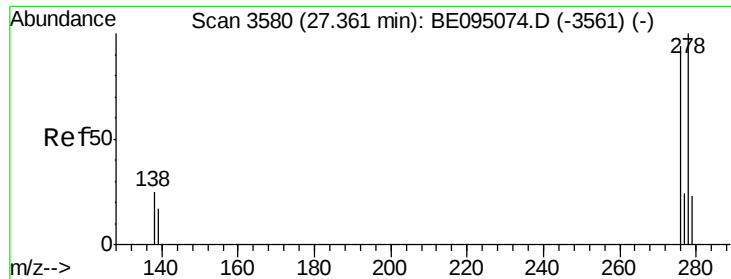
138 24.7 28.0 42.0#

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

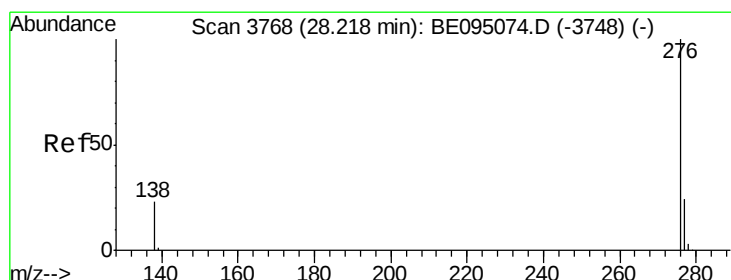
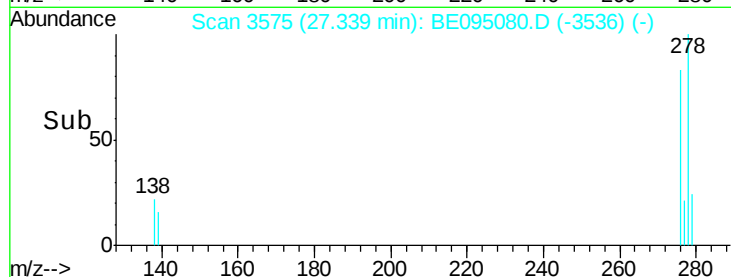
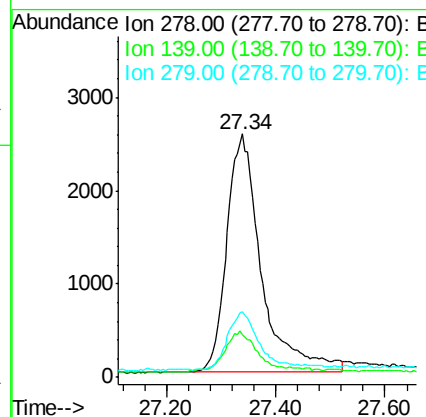
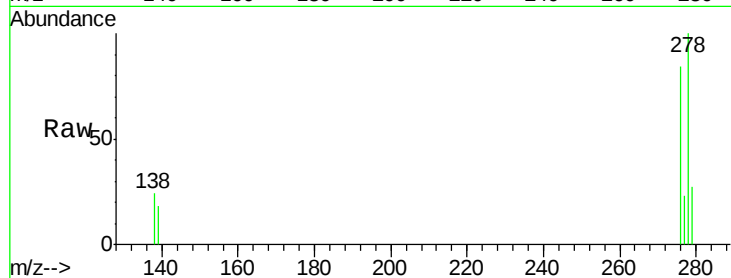




#25  
Dibenzo(a,h)anthracene  
Concen: 0.419 ng/ul  
RT: 27.34 min Scan# 3575  
Delta R.T. -0.02 min  
Lab File: BE095080.D  
Acq: 20 Jan 2018 9:20

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:278 Resp: 11255  
Ion Ratio Lower Upper  
278 100  
139 17.8 17.4 26.0  
279 27.1 25.9 38.9



#26  
Benzo(g,h,i)perylene  
Concen: 0.404 ng/ul  
RT: 28.19 min Scan# 3762  
Delta R.T. -0.03 min  
Lab File: BE095080.D  
Acq: 20 Jan 2018 9:20

Tgt Ion:276 Resp: 15112  
Ion Ratio Lower Upper  
276 100  
138 23.9 21.8 32.8  
277 24.4 20.5 30.7

