

Data Path : Z:\HPCHEM1\BNA N\DATA\BN042618\  
 Data File : BN000930.D  
 Acq On : 26 Apr 2018 14:00  
 Operator : JU/SJ  
 Sample : J2485-16  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Apr 27 07:50:19 2018  
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN042418MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Apr 27 07:47:48 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.63  | 152  | 140994   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.39 | 136  | 572530   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.26 | 164  | 264034   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.01 | 188  | 490398   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.22 | 240  | 450022   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 23.42 | 264  | 483632   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 13.95 | 160  | 1281944  | 50.55 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.26 | 176  | 845901   | 49.98 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 17.11 | 188  | 1153536  | 51.44 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 19.42 | 212  | 1173758  | 50.90 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 23.29 | 264  | 1285222  | 56.26 | ng/ul | 0.00     |

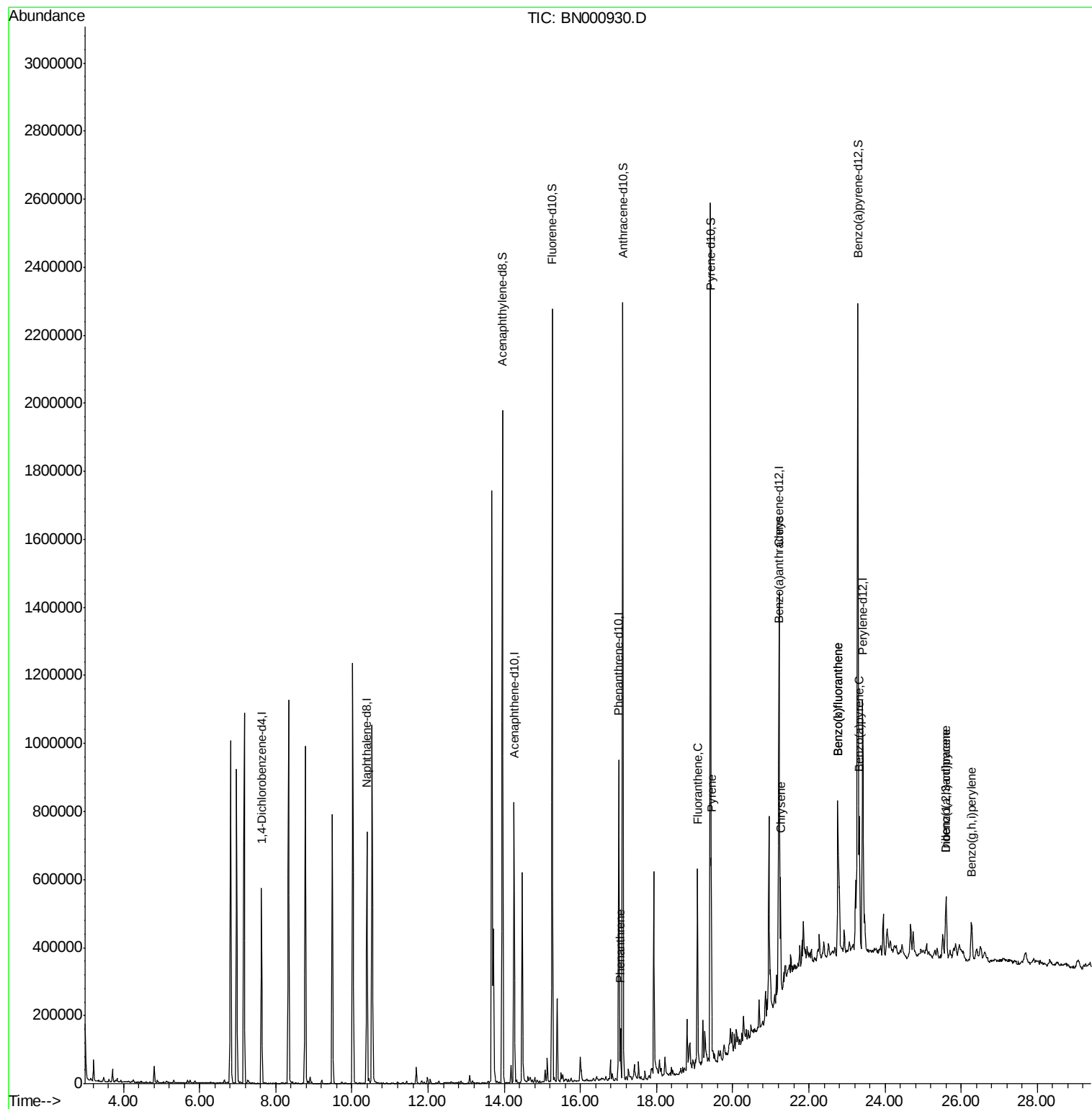
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 13) Phenanthrene           | 17.05 | 178  | 83550    | 3.124  | ng/ul  | 99     |
| 16) Fluoranthene           | 19.07 | 202  | 309590   | 11.409 | ng/ul# | 94     |
| 19) Pyrene                 | 19.45 | 202  | 289103   | 10.002 | ng/ul# | 93     |
| 20) Benzo(a)anthracene     | 21.20 | 228  | 189353   | 7.039  | ng/ul  | 96     |
| 21) Chrysene               | 21.25 | 228  | 173553   | 6.864  | ng/ul  | 97     |
| 23) Benzo(b)fluoranthene   | 22.76 | 252  | 333547   | 12.136 | ng/ul# | 95     |
| 24) Benzo(k)fluoranthene   | 22.76 | 252  | 331135   | 12.312 | ng/ul# | 95     |
| 26) Benzo(a)pyrene         | 23.32 | 252  | 200060   | 7.616  | ng/ul# | 93     |
| 27) Indeno(1,2,3-cd)pyrene | 25.60 | 276  | 151270   | 4.768  | ng/ul# | 91     |
| 28) Dibenzo(a,h)anthracene | 25.60 | 278  | 42264    | 1.598  | ng/ul# | 78     |
| 29) Benzo(g,h,i)perylene   | 26.27 | 276  | 124902   | 4.707  | ng/ul# | 91     |

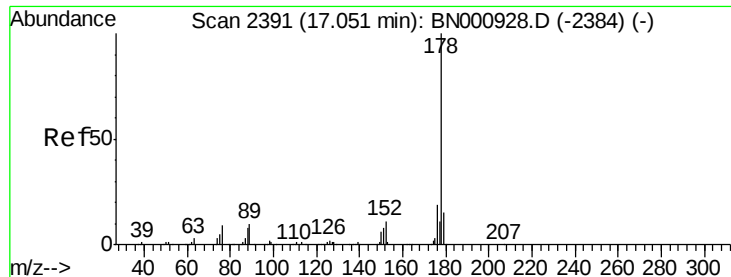
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Apr 27 07:47:48 2018  
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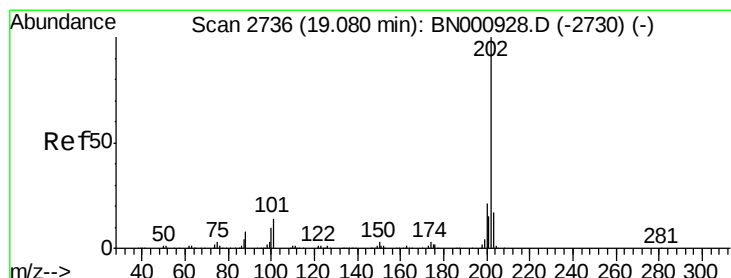
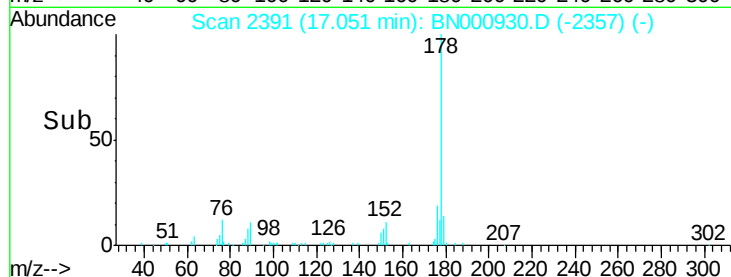
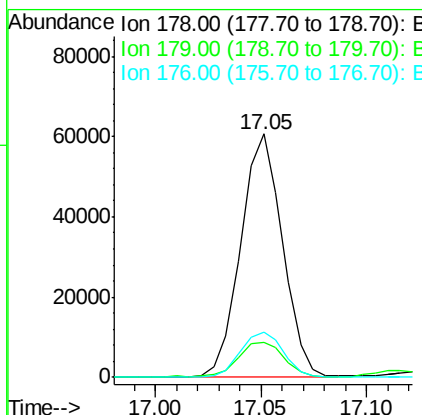
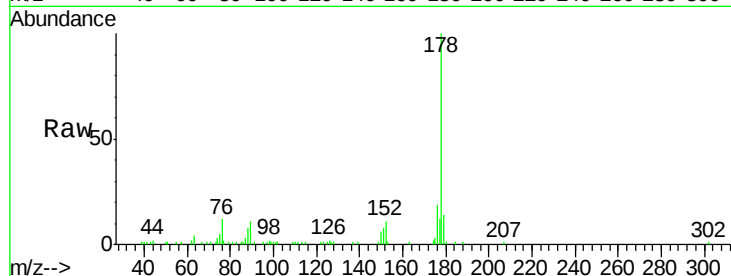




#13  
Phenanthrene  
Concen: 3.124 ng/ul  
RT: 17.05 min Scan# 2391  
Delta R.T. 0.00 min  
Lab File: BN000930.D  
Acq: 26 Apr 2018 14:00

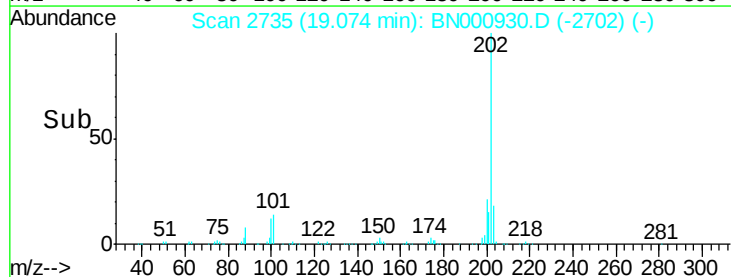
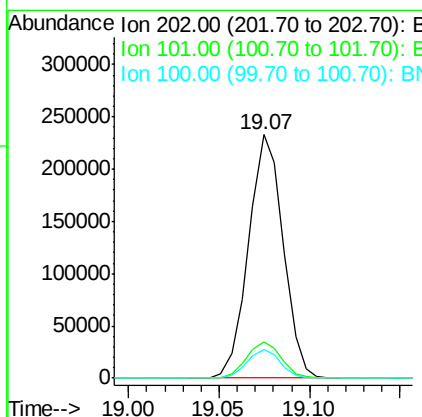
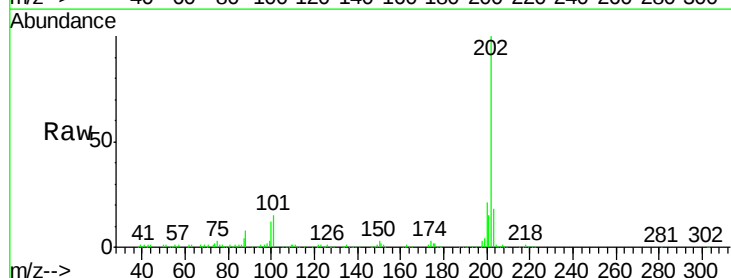
Instrument :  
BNA\_N  
ClientSampleId :

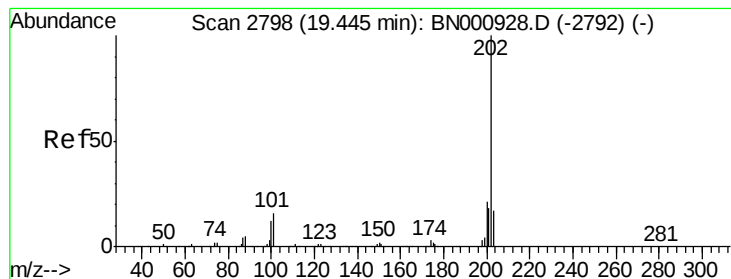
Tot Ion:178 Resp: 83550  
Ion Ratio Lower Upper  
178 100  
179 14.4 12.3 18.5  
176 18.8 15.1 22.7



#16  
Fluoranthene  
Concen: 11.409 ng/ul  
RT: 19.07 min Scan# 2735  
Delta R.T. -0.01 min  
Lab File: BN000930.D  
Acq: 26 Apr 2018 14:00

Tgt Ion:202 Resp: 309590  
Ion Ratio Lower Upper  
202 100  
101 14.8 9.9 14.9  
100 11.6 7.4 11.0#





#19

Pvrene

Concen: 10.002 ng/ul

RT: 19.45 min Scan# 2798

Delta R.T. 0.00 min

Lab File: BN000930.D

Acq: 26 Apr 2018 14:00

Instrument :

BNA\_N

ClientSampleId :

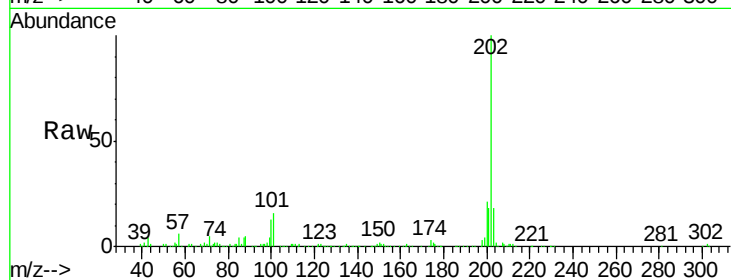
Tot Ion:202 Resp: 289103

Ion Ratio Lower Upper

202 100

101 15.9 11.0 16.4

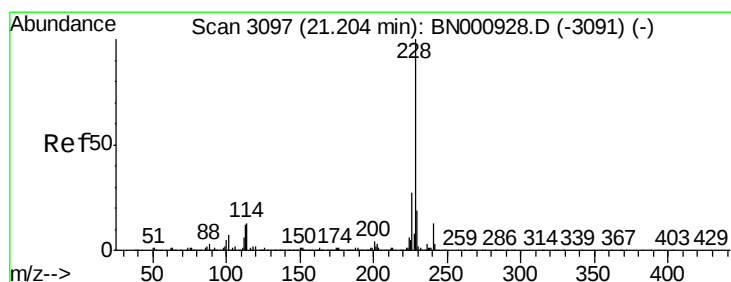
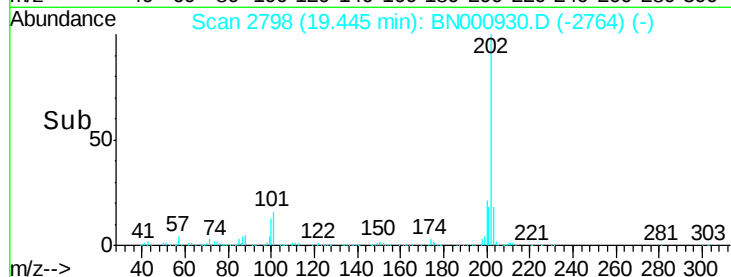
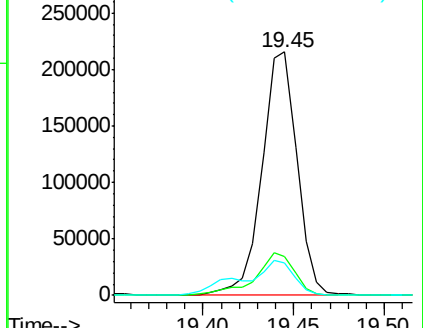
100 13.3 8.1 12.1#



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): B



#20

Benzo(a)anthracene

Concen: 7.039 ng/ul

RT: 21.20 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BN000930.D

Acq: 26 Apr 2018 14:00

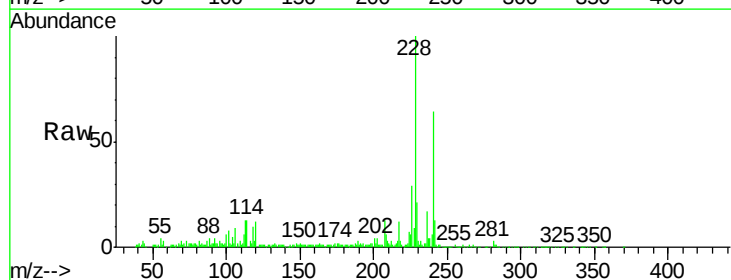
Tgt Ion:228 Resp: 189353

Ion Ratio Lower Upper

228 100

229 21.1 15.7 23.5

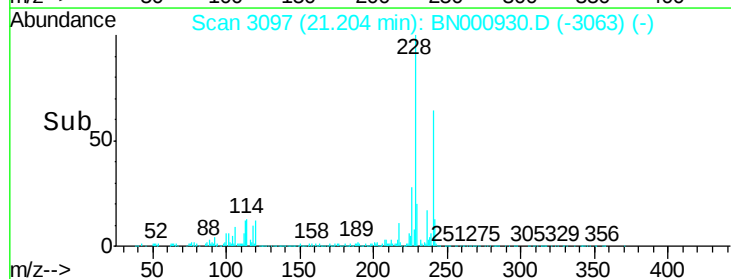
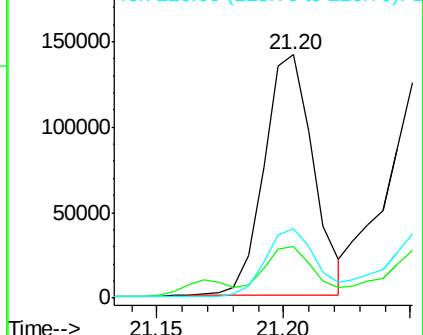
226 28.7 21.1 31.7

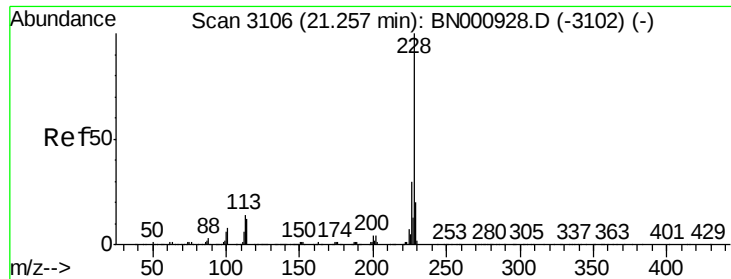


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#21

Chrysene

Concen: 6.864 ng/ul

RT: 21.25 min Scan# 3105

Delta R.T. -0.01 min

Lab File: BN000930.D

Acq: 26 Apr 2018 14:00

Instrument :

BNA\_N

ClientSampleId :

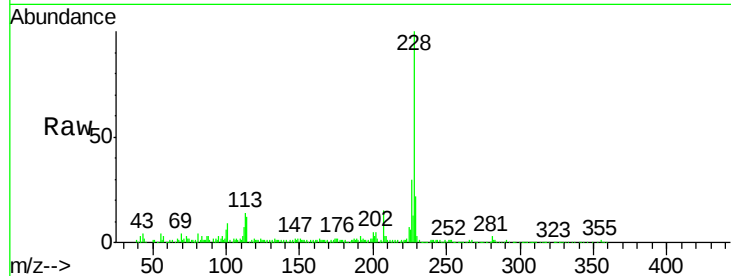
Tot Ion:228 Resp: 173553

Ion Ratio Lower Upper

228 100

226 29.8 24.5 36.7

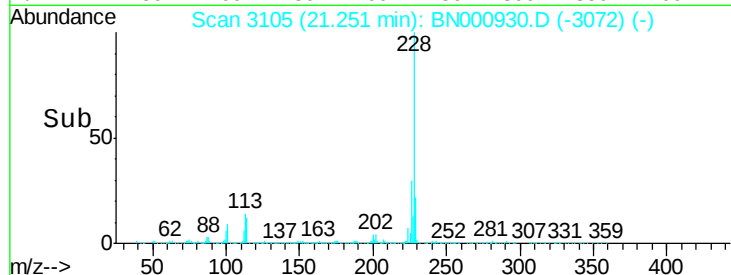
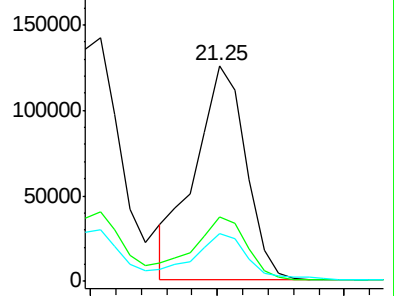
229 22.1 15.8 23.8



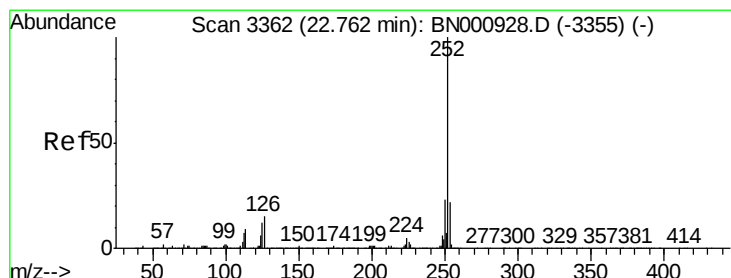
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time--> 21.20 21.25 21.30



#23

Benzo(b)fluoranthene

Concen: 12.136 ng/ul

RT: 22.76 min Scan# 3362

Delta R.T. 0.00 min

Lab File: BN000930.D

Acq: 26 Apr 2018 14:00

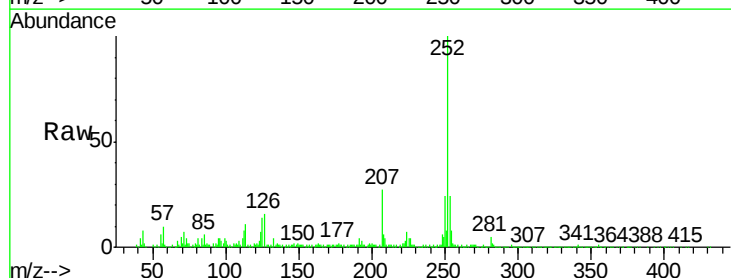
Tgt Ion:252 Resp: 333547

Ion Ratio Lower Upper

252 100

253 23.7 18.0 27.0

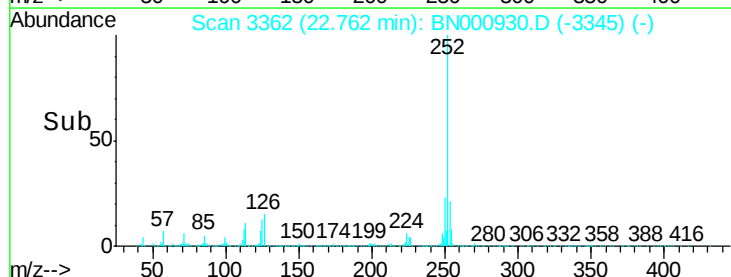
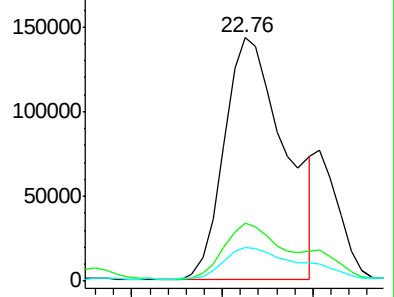
125 13.6 8.0 12.0#



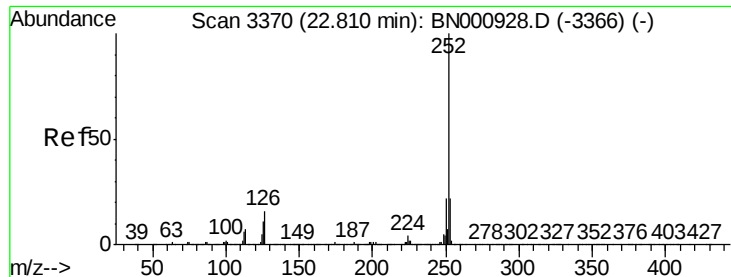
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



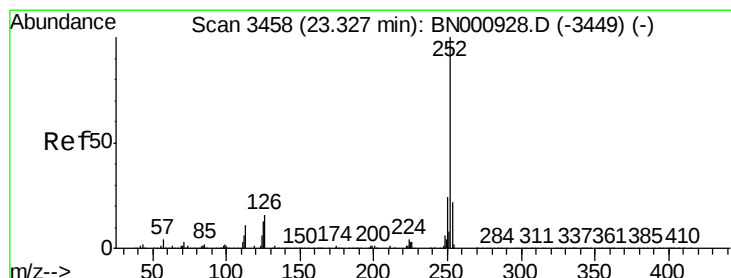
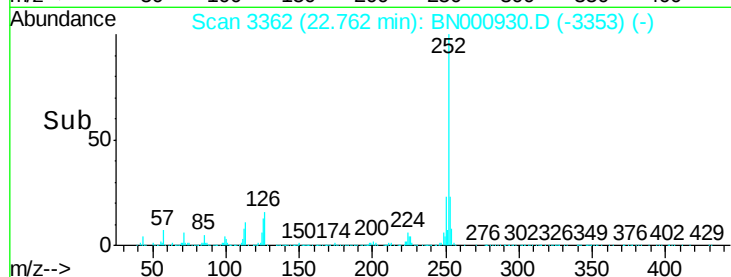
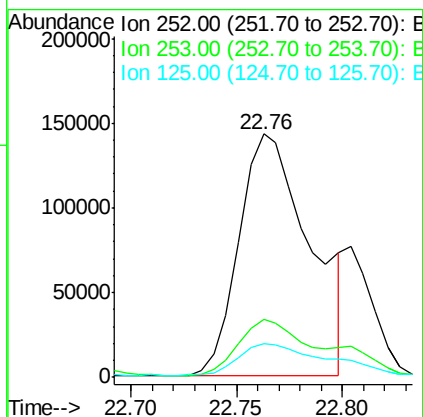
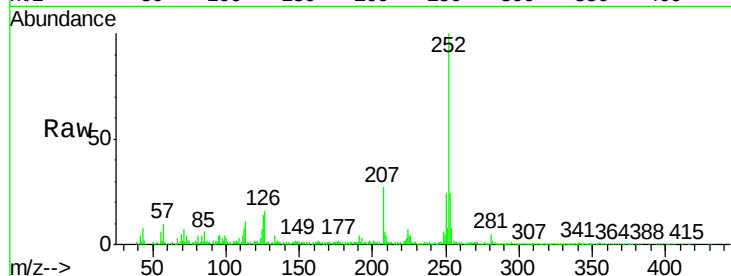
Time--> 22.70 22.75 22.80



#24  
Benzo(k)fluoranthene  
Concen: 12.312 ng/ul  
RT: 22.76 min Scan# 3362  
Delta R.T. -0.05 min  
Lab File: BN000930.D  
Acq: 26 Apr 2018 14:00

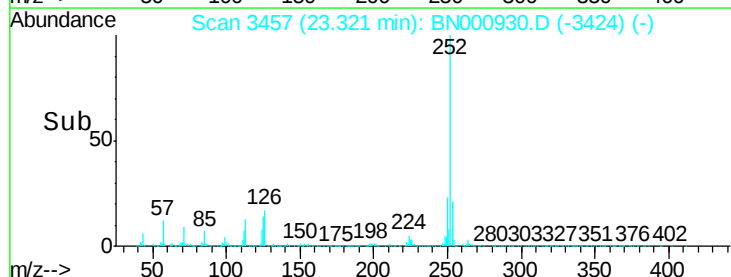
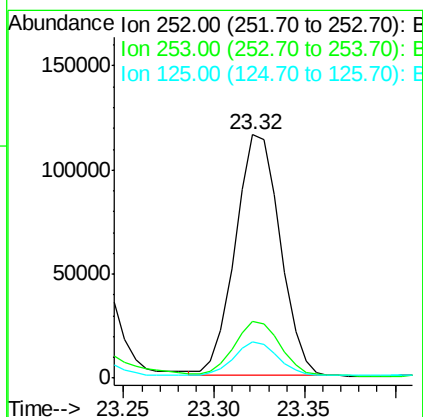
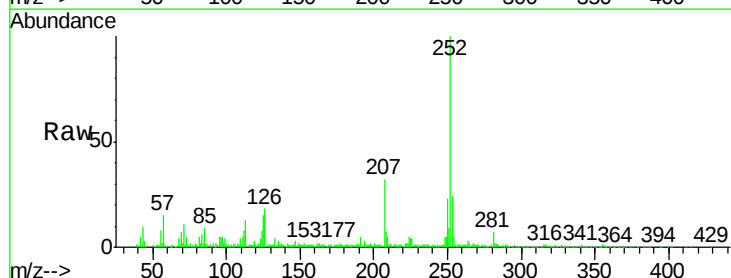
Instrument :  
BNA\_N  
ClientSampleId :

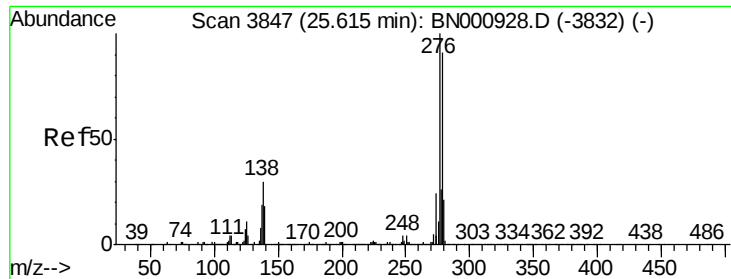
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 18.0  | 27.0  |
| 125     | 13.6  | 8.1   | 12.1  |



#26  
Benzo(a)pyrene  
Concen: 7.616 ng/ul  
RT: 23.32 min Scan# 3457  
Delta R.T. -0.01 min  
Lab File: BN000930.D  
Acq: 26 Apr 2018 14:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.2  | 25.8  |
| 125     | 15.0  | 8.2   | 12.4  |



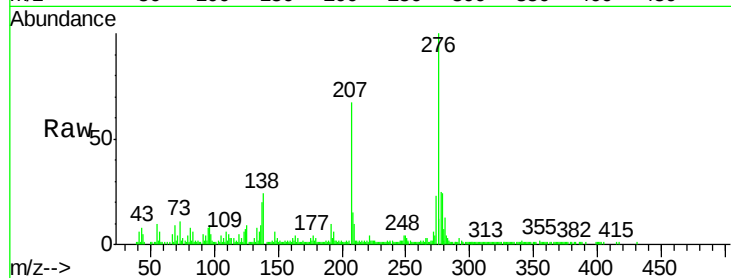


#27

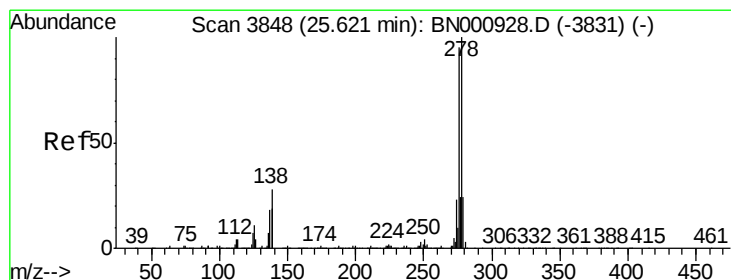
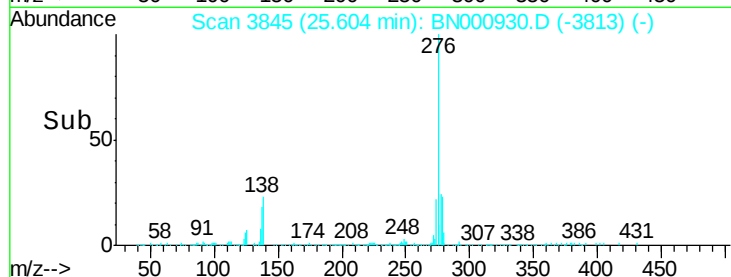
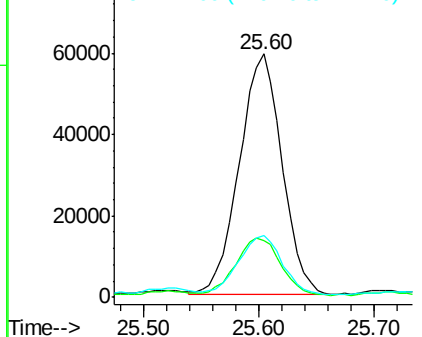
Indeno(1,2,3-cd)pyrene  
Concen: 4.768 ng/ul  
RT: 25.60 min Scan# 3845  
Delta R.T. -0.01 min  
Lab File: BN000930.D  
Acq: 26 Apr 2018 14:00

Instrument :  
BNA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.6  | 14.4  | 21.6# |
| 277     | 25.1  | 18.0  | 27.0  |



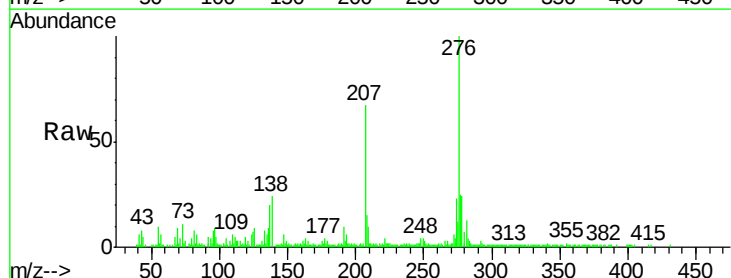
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



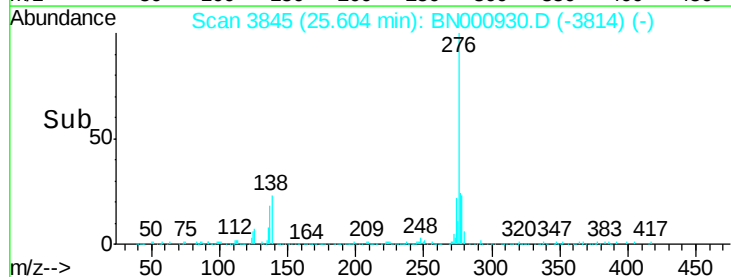
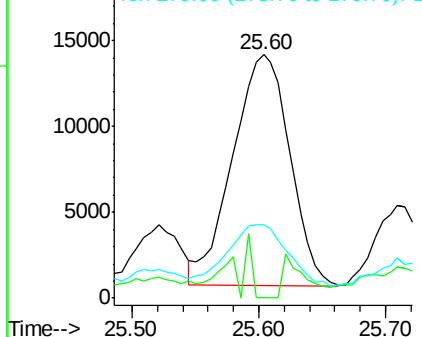
#28

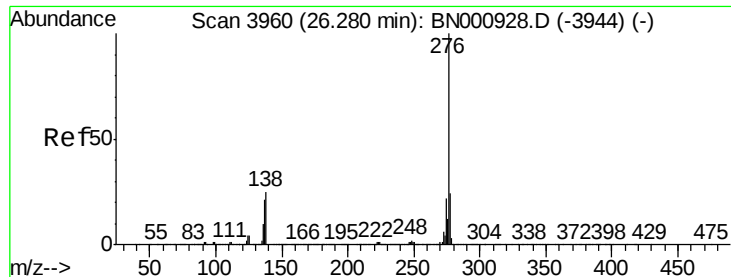
Dibenzo(a,h)anthracene  
Concen: 1.598 ng/ul  
RT: 25.60 min Scan# 3845  
Delta R.T. -0.02 min  
Lab File: BN000930.D  
Acq: 26 Apr 2018 14:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 12.2  | 18.4# |
| 279     | 30.3  | 19.2  | 28.8# |



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





#29

Benzo(a,h,i)perylene

Concen: 4.707 ng/ul

RT: 26.27 min Scan# 3958

Delta R.T. -0.01 min

Lab File: BN000930.D

Acq: 26 Apr 2018 14:00

Instrument :

BNA\_N

ClientSampleId :

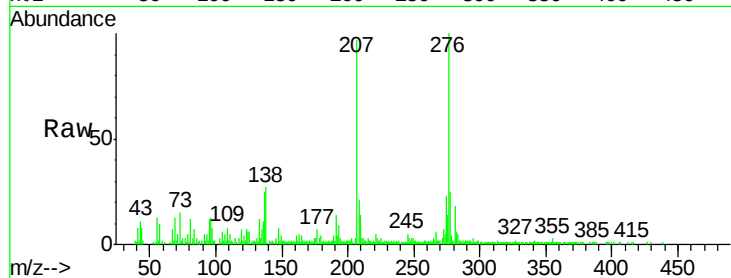
Tot Ion:276 Resp: 124902

Ion Ratio Lower Upper

276 100

138 26.8 15.3 22.9#

277 25.0 19.0 28.4



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

