

Data Path : Z:\HPCHEM1\BNA N\DATA\BN043018\  
 Data File : BN001015.D  
 Acq On : 01 May 2018 04:00  
 Operator : JU/SJ  
 Sample : J2599-08  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DAT29

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Quant Time: May 01 05:56:30 2018  
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN042418MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue May 01 01:47:00 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 160853   | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.38 | 136  | 690205   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.25 | 164  | 337995   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.00 | 188  | 601592   | 20.00  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.20 | 240  | 479775   | 20.00  | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.40 | 264  | 511985   | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 7) Acenaphthylene-d8        | 13.94 | 160  | 535806   | 16.51  | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.25 | 176  | 363447   | 16.77  | ng/ul  | 0.00     |
| 14) Anthracene-d10          | 17.10 | 188  | 480920   | 17.48  | ng/ul  | 0.00     |
| 18) Pyrene-d10              | 19.40 | 212  | 453487   | 18.45  | ng/ul  | 0.00     |
| 25) Benzo(a)pyrene-d12      | 23.26 | 264  | 467828   | 19.34  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |        |        |          |
| 13) Phenanthrene            | 17.04 | 178  | 144366   | 4.400  | ng/ul  | 99       |
| 16) Fluoranthene            | 19.06 | 202  | 375590   | 11.283 | ng/ul# | 92       |
| 19) Pyrene                  | 19.43 | 202  | 311217   | 10.099 | ng/ul# | 92       |
| 20) Benzo(a)anthracene      | 21.19 | 228  | 145401   | 5.070  | ng/ul  | 98       |
| 21) Chrysene                | 21.24 | 228  | 200318m  | 7.431  | ng/ul  |          |
| 23) Benzo(b)fluoranthene    | 22.74 | 252  | 299074m  | 10.279 | ng/ul  |          |
| 24) Benzo(k)fluoranthene    | 22.79 | 252  | 96726m   | 3.397  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.30 | 252  | 178633   | 6.424  | ng/ul# | 94       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.57 | 276  | 158269   | 4.712  | ng/ul# | 91       |
| 28) Dibenzo(a,h)anthracene  | 25.57 | 278  | 37966    | 1.356  | ng/ul# | 83       |
| 29) Benzo(g,h,i)perylene    | 26.24 | 276  | 156129   | 5.558  | ng/ul# | 92       |

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

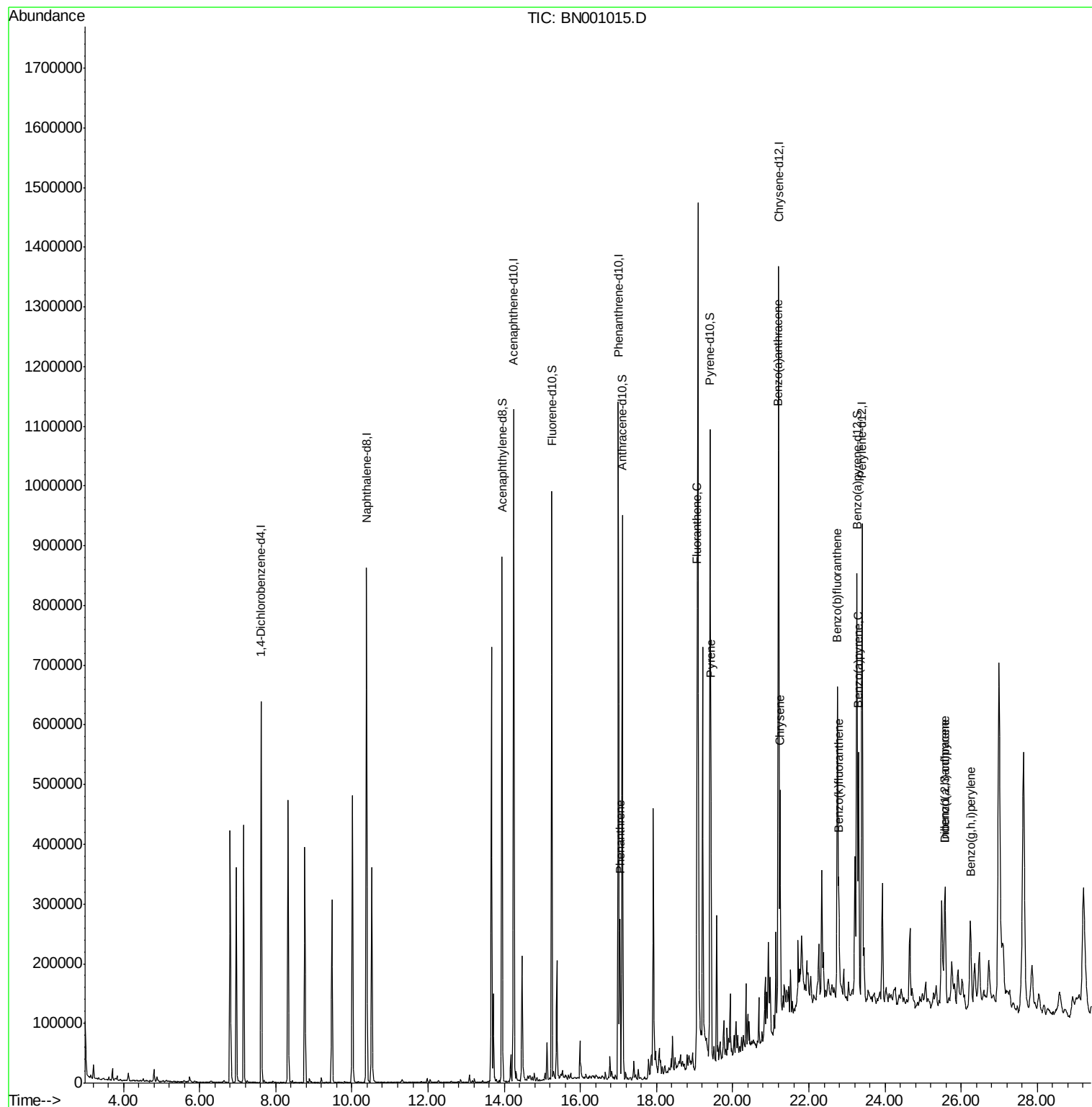
Data Path : Z:\HPCHEM1\BNA N\DATA\BN043018\  
Data File : BN001015.D  
Acq On : 01 May 2018 04:00  
Operator : JU/SJ  
Sample : J2599-08  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

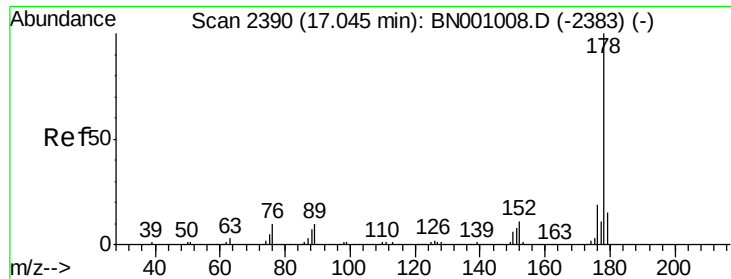
Instrument :  
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ClientSampleId :  
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Quant Time: May 01 05:56:30 2018  
Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN042418MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue May 01 01:47:00 2018  
Response via : Initial Calibration

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#13

Phenanthrene

Concen: 4.400 ng/ul

RT: 17.04 min Scan# 2389

Delta R.T. -0.01 min

Lab File: BN001015.D

Acq: 01 May 2018 04:00

Instrument :

BNA\_N

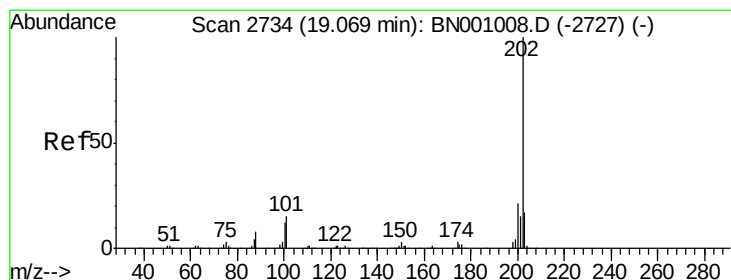
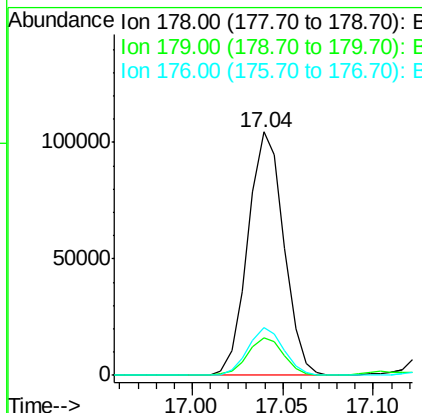
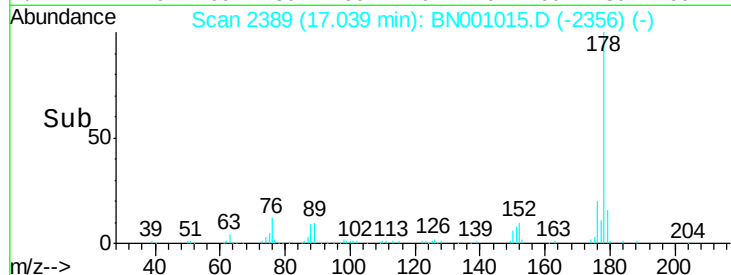
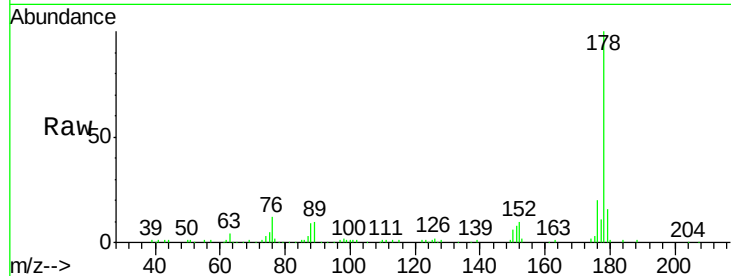
ClientSampled :

DAT29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 144366 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.5  | 12.3  | 18.5   |
| 176       | 19.5  | 15.1  | 22.7   |

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#16

Fluoranthene

Concen: 11.283 ng/ul

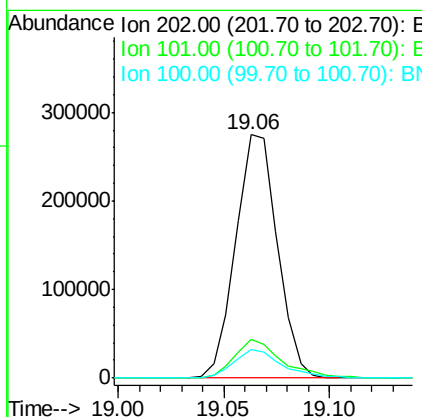
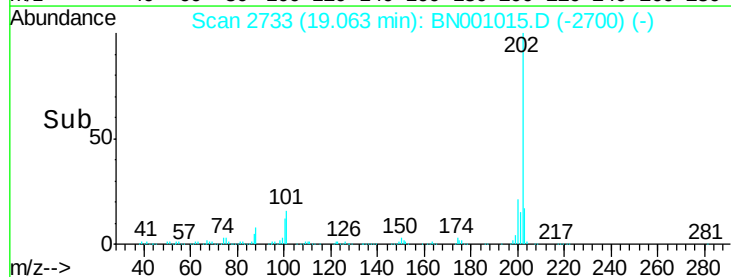
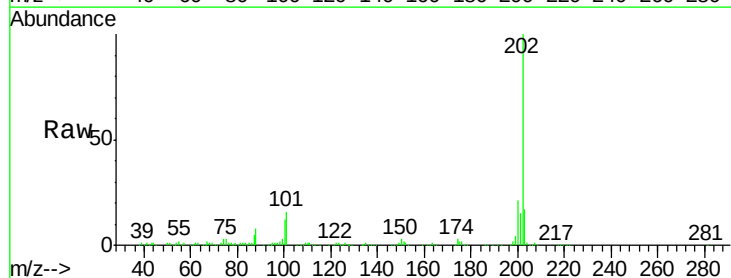
RT: 19.06 min Scan# 2733

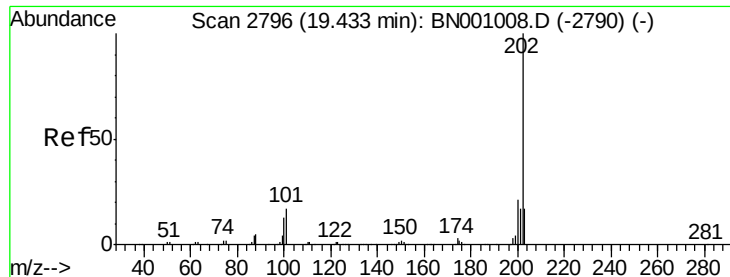
Delta R.T. -0.01 min

Lab File: BN001015.D

Acq: 01 May 2018 04:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 375590 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 15.9  | 9.9   | 14.9#  |
| 100       | 11.9  | 7.4   | 11.0#  |





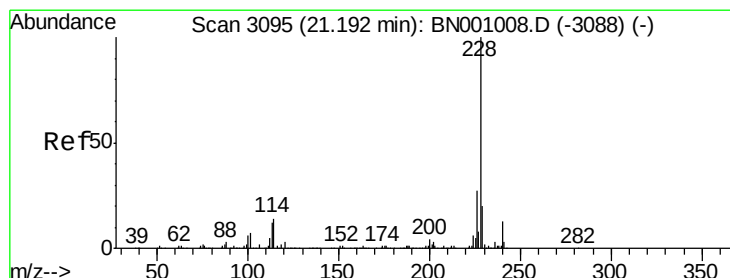
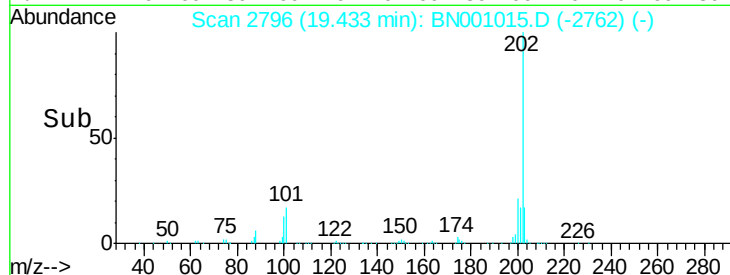
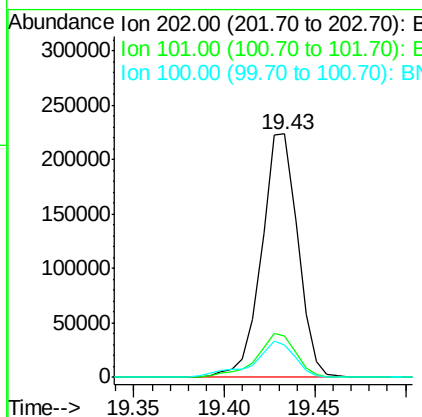
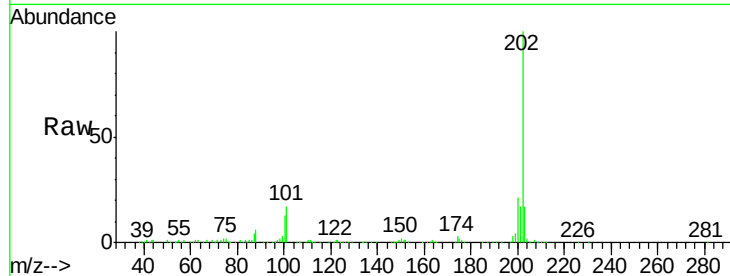
#19  
Pvrene  
Concen: 10.099 ng/ul  
RT: 19.43 min Scan# 2796  
Delta R.T. -0.00 min  
Lab File: BN001015.D  
Acq: 01 May 2018 04:00

Instrument :  
BNA\_N  
ClientSampleId :  
DAT29

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 16.8  | 11.0       | 16.4# |
| 100     | 13.5  | 8.1        | 12.1# |

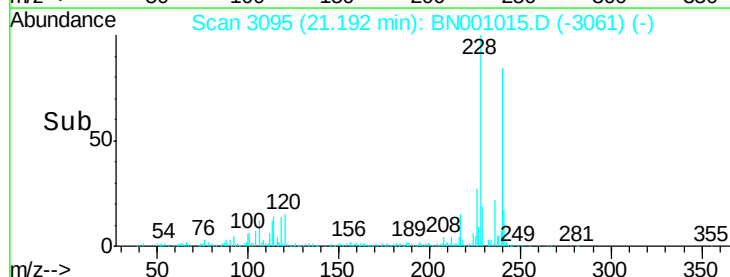
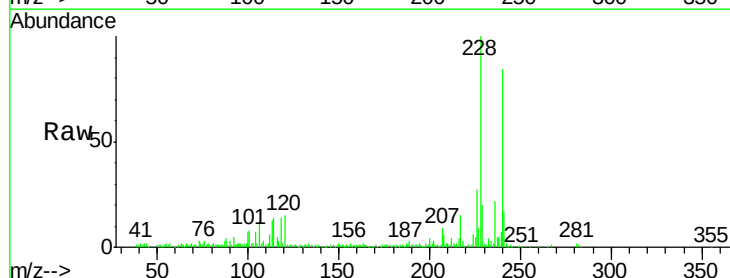
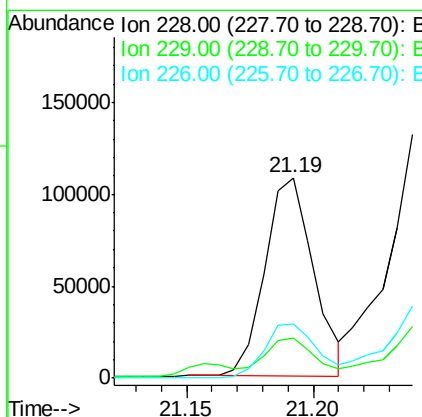
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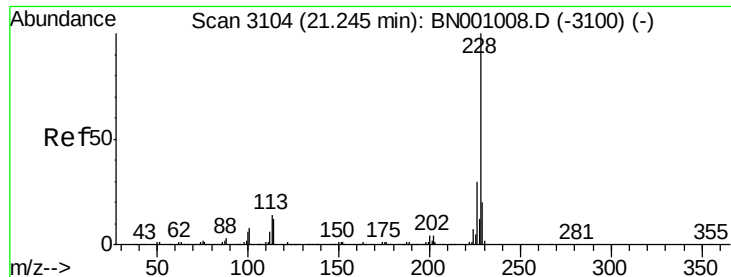
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#20  
Benzo(a)anthracene  
Concen: 5.070 ng/ul  
RT: 21.19 min Scan# 3095  
Delta R.T. -0.00 min  
Lab File: BN001015.D  
Acq: 01 May 2018 04:00

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.2  | 15.7       | 23.5  |
| 226     | 27.3  | 21.1       | 31.7  |





#21

Chrysene

Concen: 7.431 ng/ul m

RT: 21.24 min Scan# 3104

Delta R.T. -0.00 min

Lab File: BN001015.D

Acq: 01 May 2018 04:00

Instrument :

BNA\_N

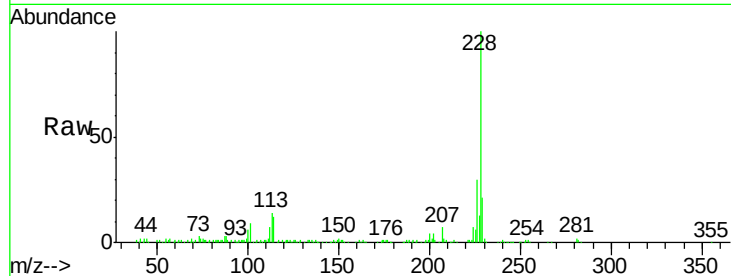
ClientSampled :

DAT29

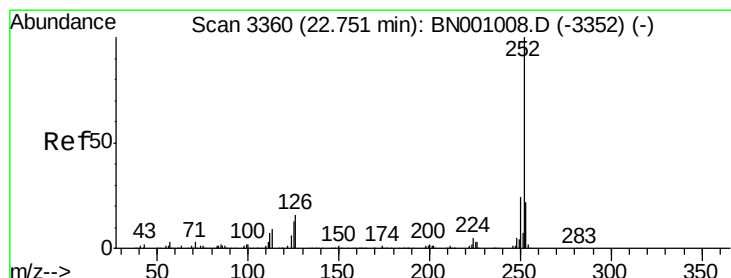
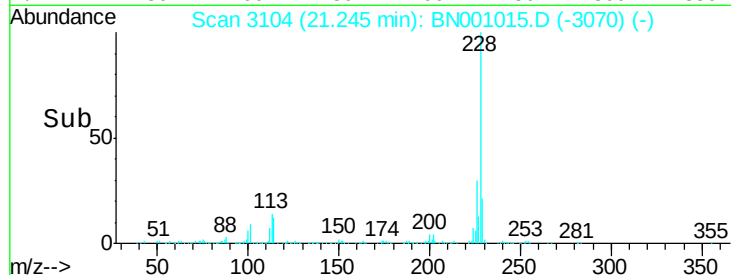
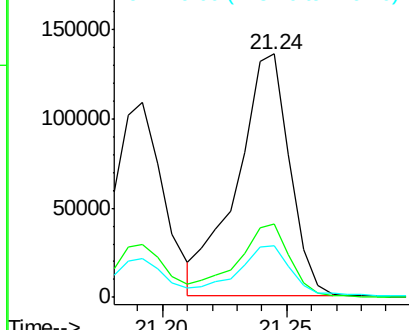
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 228  | Resp: | 200318 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 29.9 | 24.5  | 36.7   |
| 229       | 21.0 | 15.8  | 23.8   |

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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



#23

Benzo(b)fluoranthene

Concen: 10.279 ng/ul m

RT: 22.74 min Scan# 3359

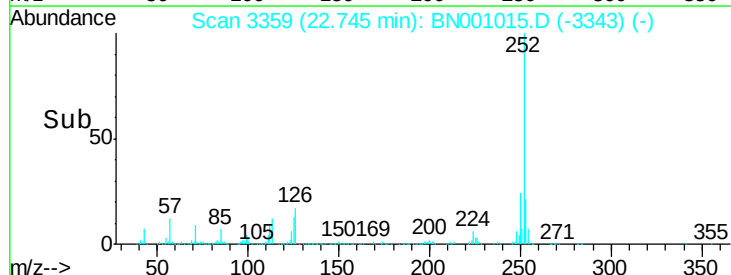
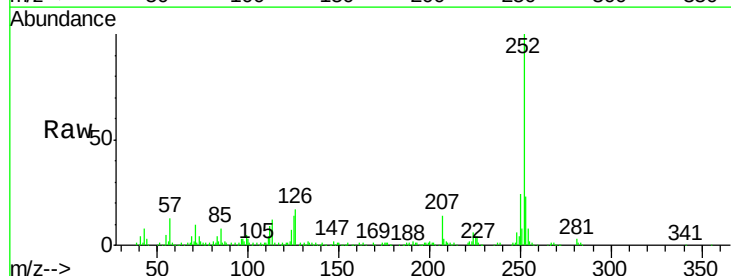
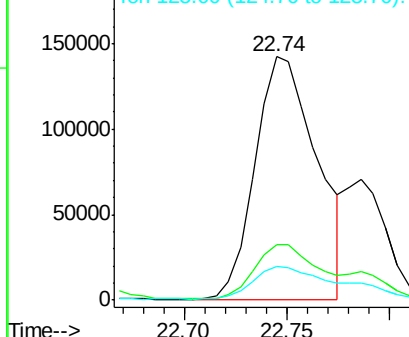
Delta R.T. -0.01 min

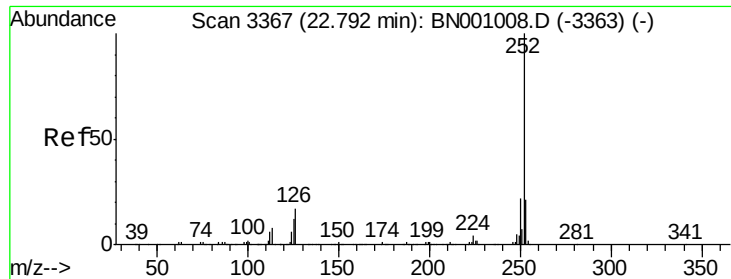
Lab File: BN001015.D

Acq: 01 May 2018 04:00

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 299074 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 22.9 | 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





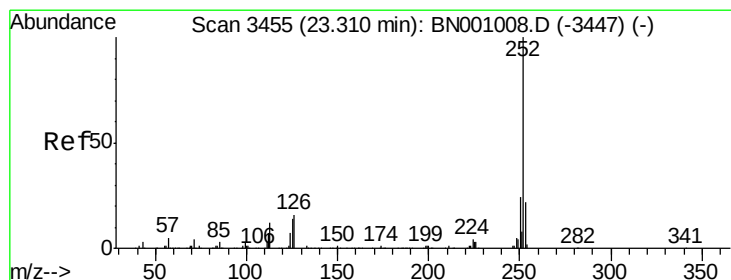
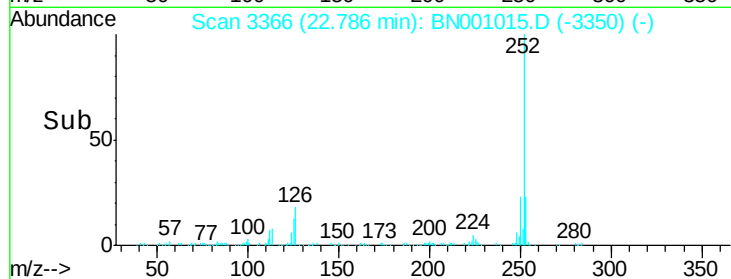
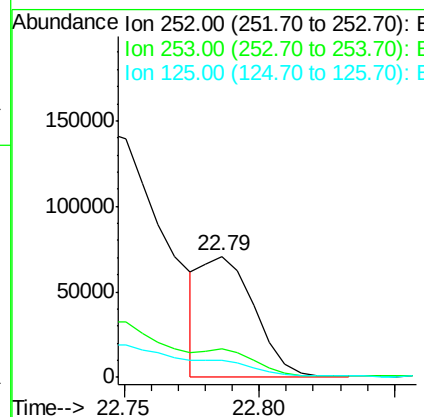
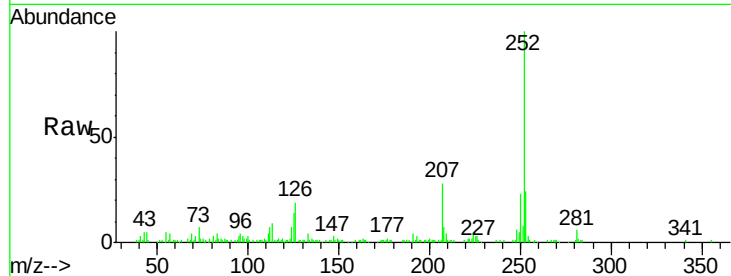
#24  
Benzo(k)fluoranthene  
Concen: 3.397 ng/ul m  
RT: 22.79 min Scan# 3366  
Delta R.T. -0.01 min  
Lab File: BN001015.D  
Acq: 01 May 2018 04:00

Instrument :  
BNA\_N  
ClientSampled :  
DAT29

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 18.0  | 27.0  |
| 125     | 14.2  | 8.1   | 12.1# |

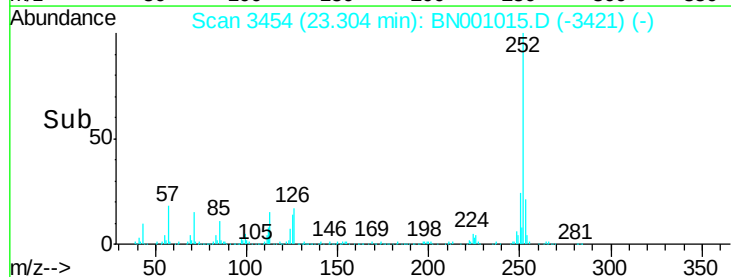
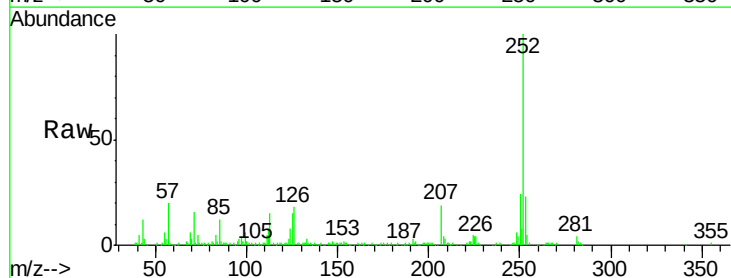
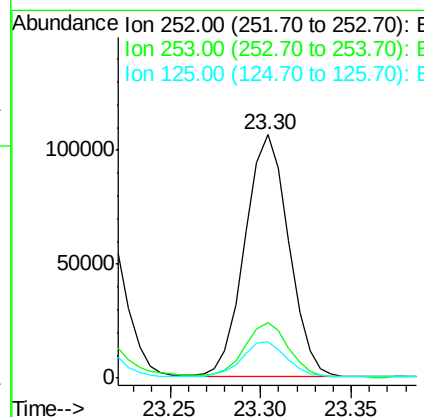
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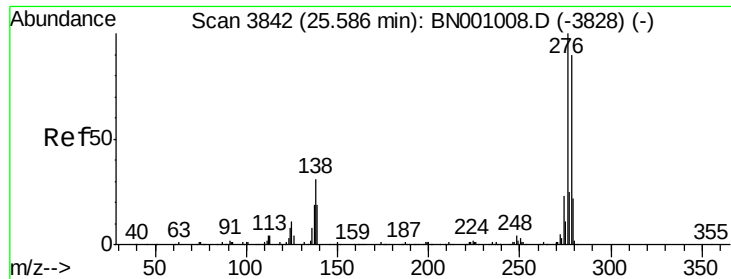
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#26  
Benzo(a)pyrene  
Concen: 6.424 ng/ul  
RT: 23.30 min Scan# 3454  
Delta R.T. -0.01 min  
Lab File: BN001015.D  
Acq: 01 May 2018 04:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.2  | 25.8  |
| 125     | 14.7  | 8.2   | 12.4# |





#27

Indeno(1,2,3-cd)pyrene

Concen: 4.712 ng/ul

RT: 25.57 min Scan# 3840

Delta R.T. -0.01 min

Lab File: BN001015.D

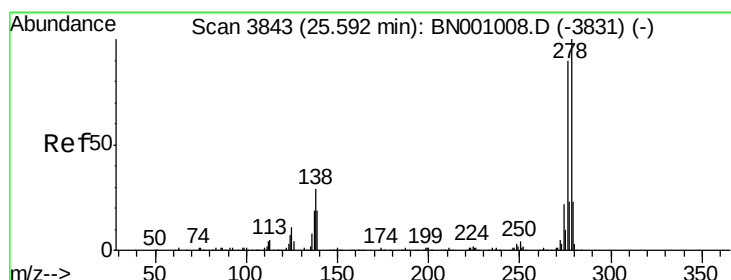
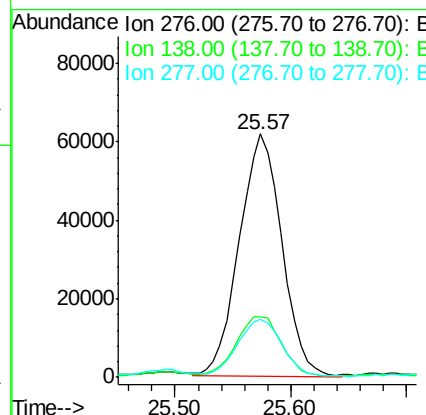
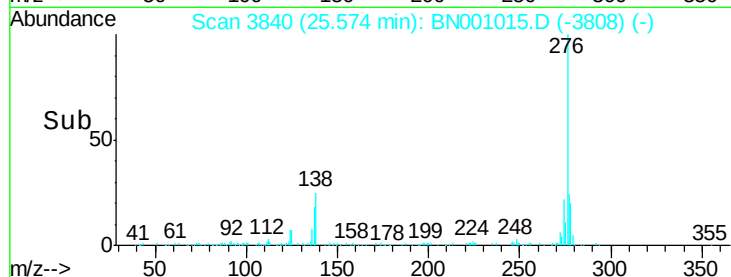
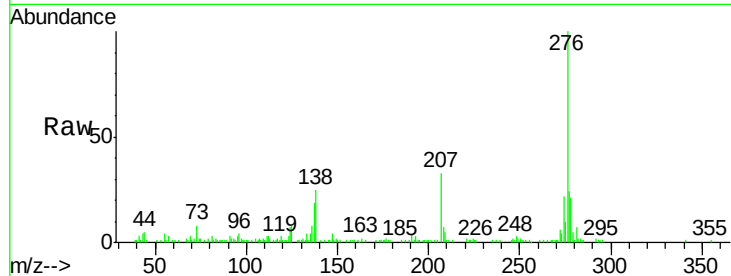
Acq: 01 May 2018 04:00

Instrument :  
BNA\_N  
ClientSampleId :  
DAT29

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.0  | 14.4  | 21.6# |
| 277     | 24.0  | 18.0  | 27.0  |

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#28

Dibenzo(a,h)anthracene

Concen: 1.356 ng/ul

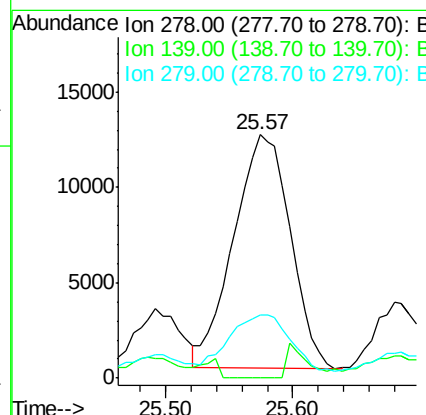
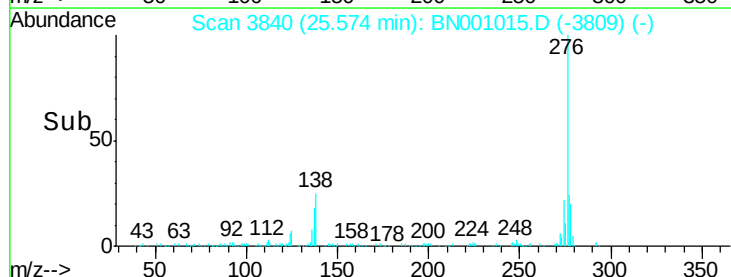
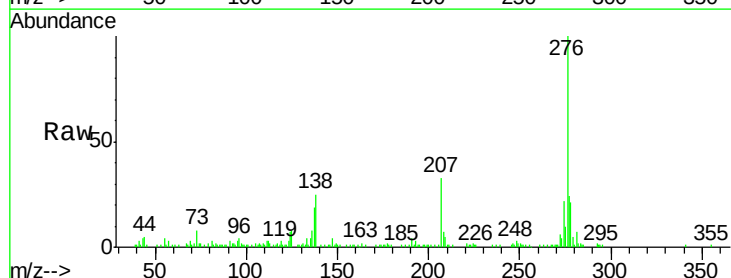
RT: 25.57 min Scan# 3840

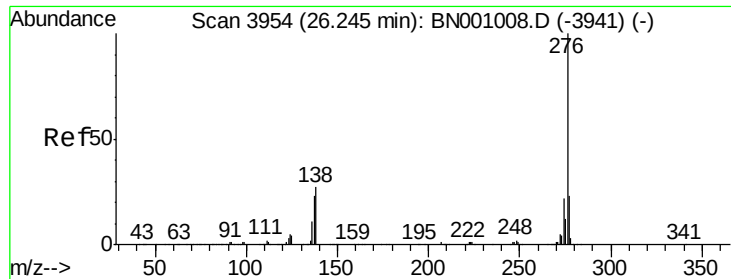
Delta R.T. -0.02 min

Lab File: BN001015.D

Acq: 01 May 2018 04:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 12.2  | 18.4# |
| 279     | 26.1  | 19.2  | 28.8  |





#29

Benzo(a,h,i)perylene

Concen: 5.558 ng/ul

RT: 26.24 min Scan# 3953

Delta R.T. -0.01 min

Lab File: BN001015.D

Acq: 01 May 2018 04:00

Instrument :

BNA\_N

ClientSampleId :

DAT29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 156129 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 27.1  | 15.3  | 22.9#  |
| 277       | 24.1  | 19.0  | 28.4   |

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