

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN061419\  
 Data File : BN006333.D  
 Acq On : 14 Jun 2019 13:22  
 Operator : JU/SJ  
 Sample : K3332-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4229

Manual Integrations  
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 6/17/2019 8:28:49 AM

Quant Time: Jun 14 17:22:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 13 11:20:30 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.64  | 152  | 3879     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.42 | 136  | 14382    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.29 | 164  | 7151     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.05 | 188  | 13857m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.27 | 240  | 11006m   | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.50 | 264  | 9996m    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152  | 4298     | 0.20   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.09 | 212  | 11330m   | 0.30   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 7) Acenaphthylene           | 14.01 | 152  | 1533     | 0.039  | ng/ul# | 89       |
| 12) Phenanthrene            | 17.09 | 178  | 7048     | 0.158  | ng/ul  | 96       |
| 13) Anthracene              | 17.18 | 178  | 2152m    | 0.051  | ng/ul  |          |
| 15) Fluoranthene            | 19.12 | 202  | 21228m   | 0.432  | ng/ul  |          |
| 17) Pyrene                  | 19.49 | 202  | 20607    | 0.355  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.25 | 228  | 8794m    | 0.181  | ng/ul  |          |
| 19) Chrysene                | 21.30 | 228  | 10019m   | 0.219  | ng/ul  |          |
| 21) Benzo(b)fluoranthene    | 22.83 | 252  | 12974m   | 0.311  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.87 | 252  | 4963m    | 0.122  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.40 | 252  | 8976     | 0.231  | ng/ul  | 96       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.74 | 276  | 6304     | 0.150  | ng/ul# | 89       |
| 25) Dibenzo(a,h)anthracene  | 25.74 | 278  | 1531     | 0.046  | ng/ul# | 42       |
| 26) Benzo(g,h,i)perylene    | 26.42 | 276  | 4675     | 0.133  | ng/ul  | 93       |

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

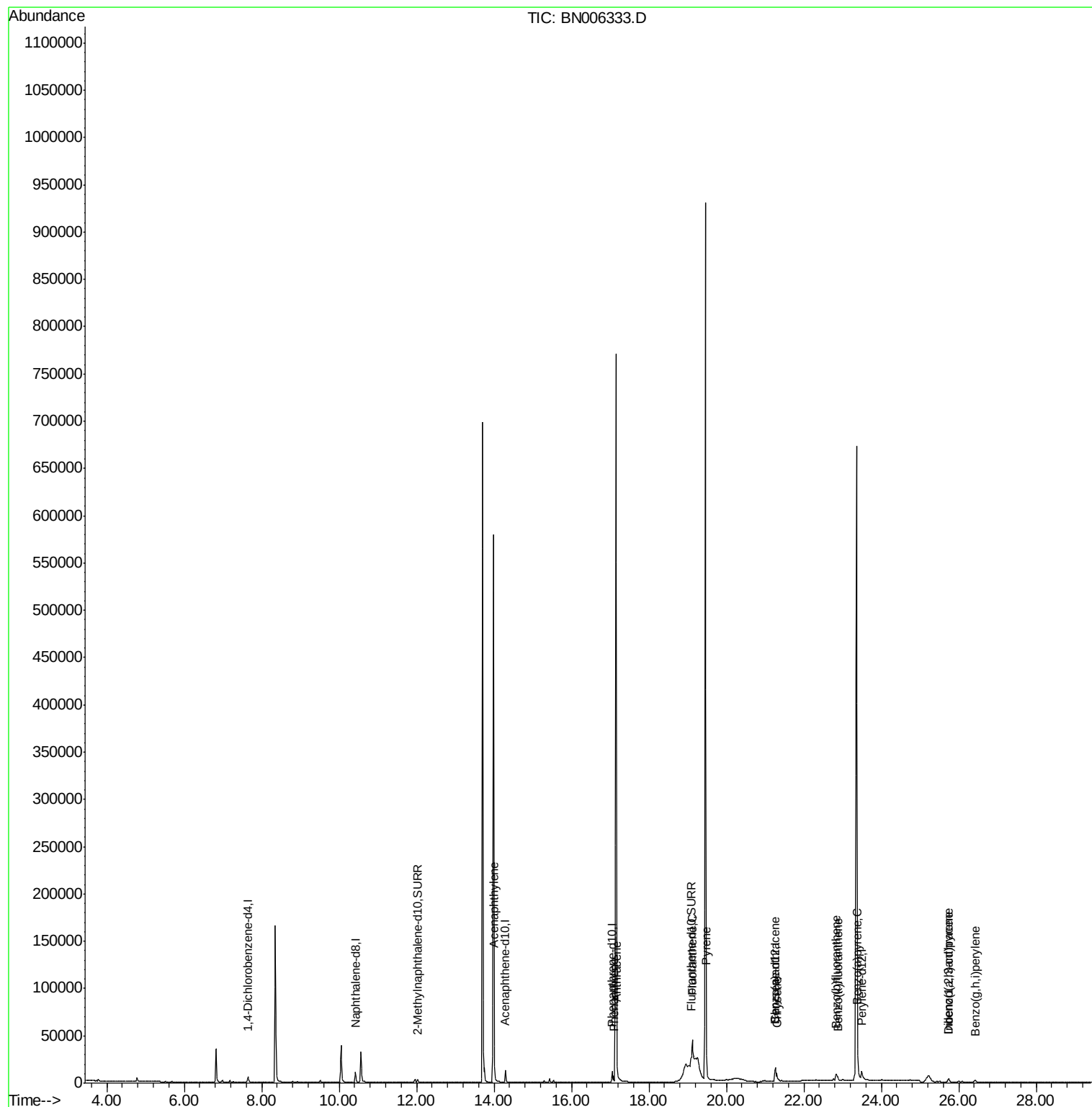
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN061419\  
Data File : BN006333.D  
Acq On : 14 Jun 2019 13:22  
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Sample : K3332-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

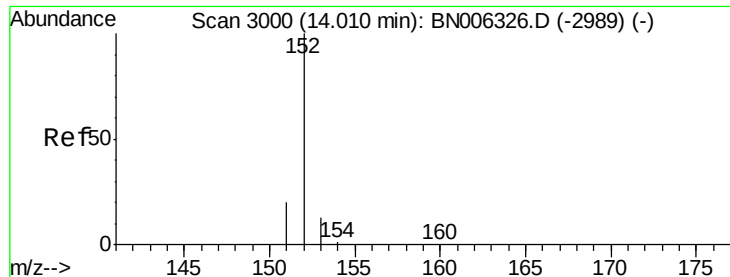
Instrument :  
BNA\_N  
ClientSampleId :  
A4229

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Quant Time: Jun 14 17:22:47 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 13 11:20:30 2019  
Response via : Initial Calibration





#7

Acenaphthylene

Concen: 0.039 ng/ul

RT: 14.01 min Scan# 3000

Delta R.T. -0.00 min

Lab File: BN006333.D

Acq: 14 Jun 2019 13:22

Instrument :

BNA\_N

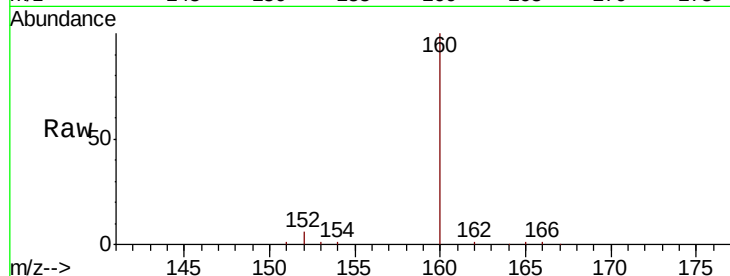
ClientSampleId :

A4229

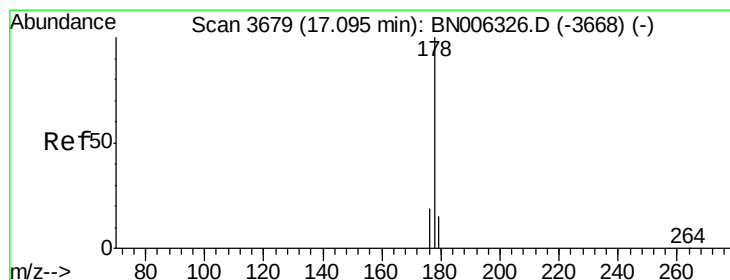
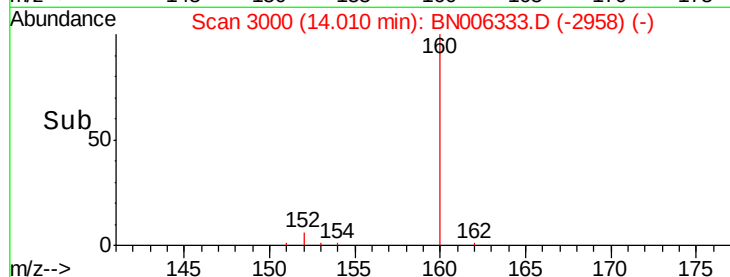
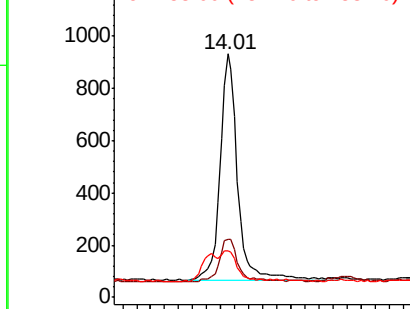
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 1533  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 24.0  | 15.8  | 23.8# |
| 153       | 19.3  | 10.8  | 16.2# |

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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



#12

Phenanthrene

Concen: 0.158 ng/ul

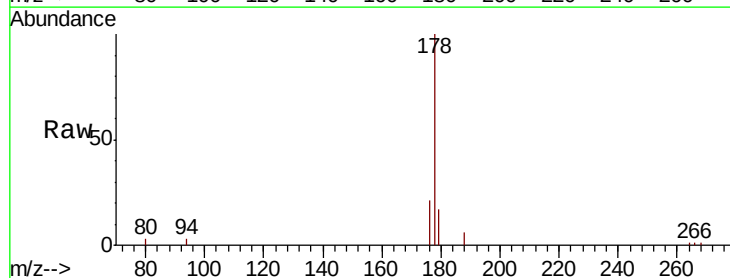
RT: 17.09 min Scan# 3678

Delta R.T. 0.00 min

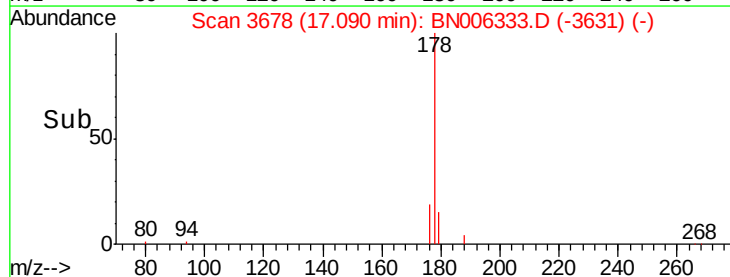
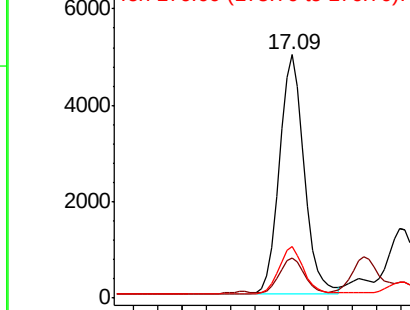
Lab File: BN006333.D

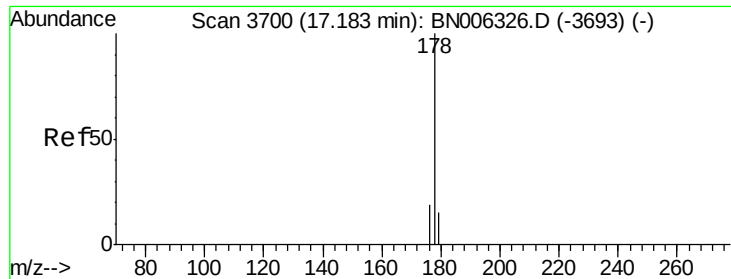
Acq: 14 Jun 2019 13:22

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 7048 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 16.7  | 12.3  | 18.5 |
| 176       | 21.0  | 15.3  | 22.9 |



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: 0.051 ng/ul m

RT: 17.18 min Scan# 3699

Delta R.T. -0.00 min

Lab File: BN006333.D

Acq: 14 Jun 2019 13:22

Instrument :

BNA\_N

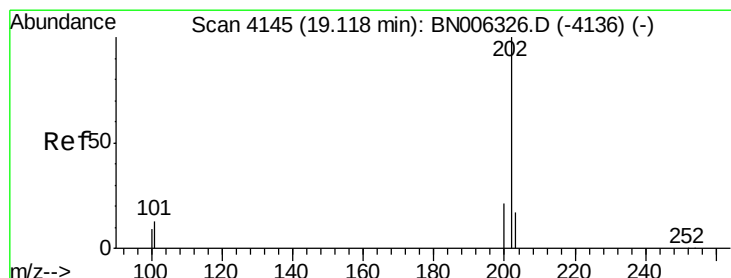
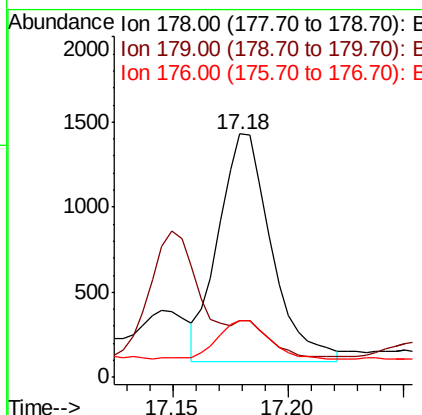
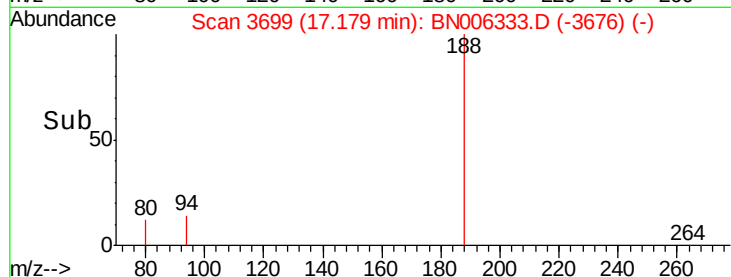
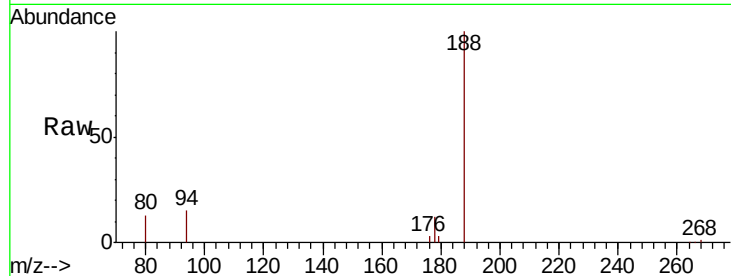
ClientSampleId :

A4229

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 2152  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 23.1  | 12.2  | 18.4# |
| 176       | 23.5  | 15.1  | 22.7# |

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#15

Fluoranthene

Concen: 0.432 ng/ul m

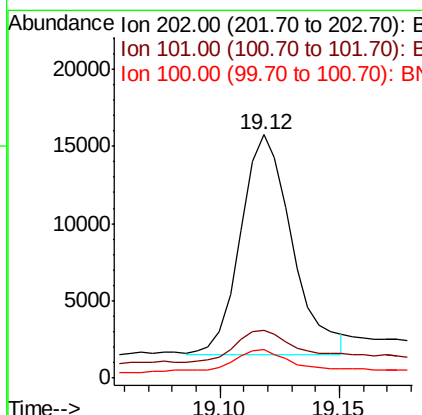
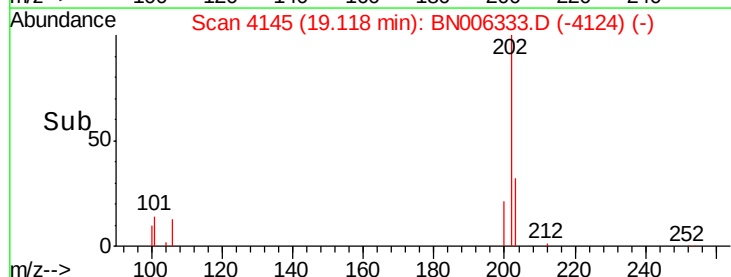
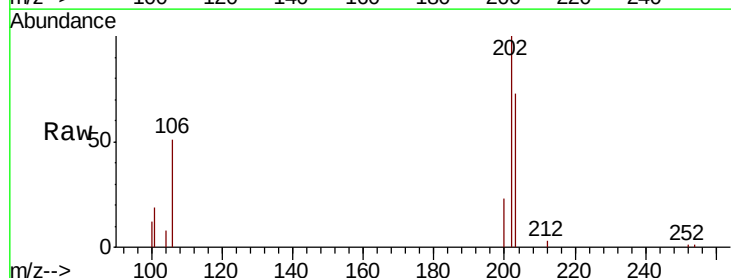
RT: 19.12 min Scan# 4145

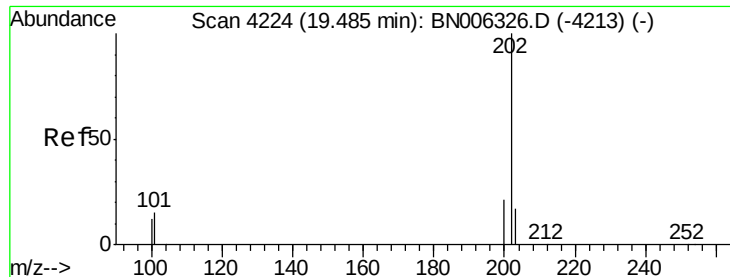
Delta R.T. -0.00 min

Lab File: BN006333.D

Acq: 14 Jun 2019 13:22

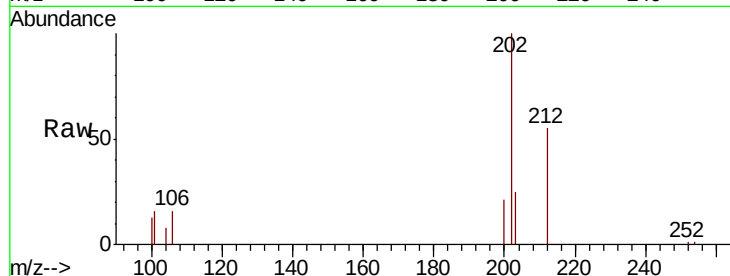
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 21228 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 19.4  | 0.0   | 32.1  |
| 100       | 11.6  | 0.0   | 28.7  |





#17  
**Pyrene**  
 Concen: 0.355 ng/ul  
 RT: 19.49 min Scan# 4224  
 Delta R.T. 0.00 min  
 Lab File: BN006333.D  
 Acq: 14 Jun 2019 13:22

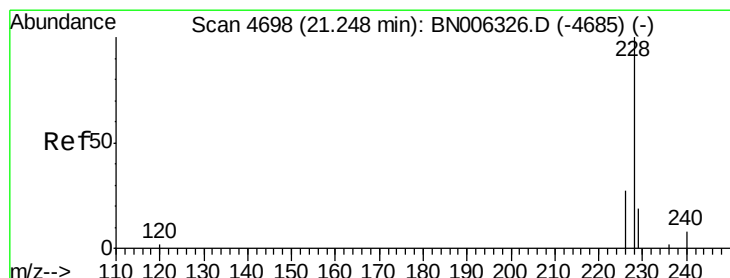
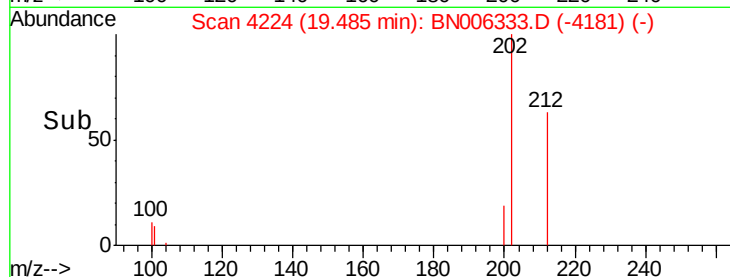
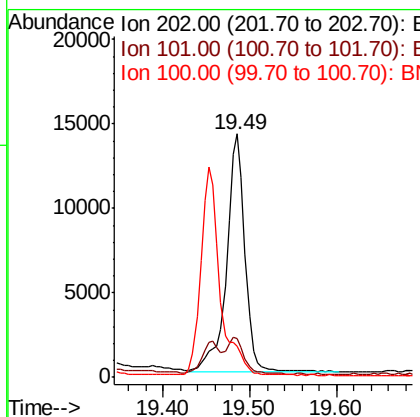
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4229



| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 15.9  | 12.2       | 18.2       |
| 100     | 12.9  | 9.8        | 14.6       |

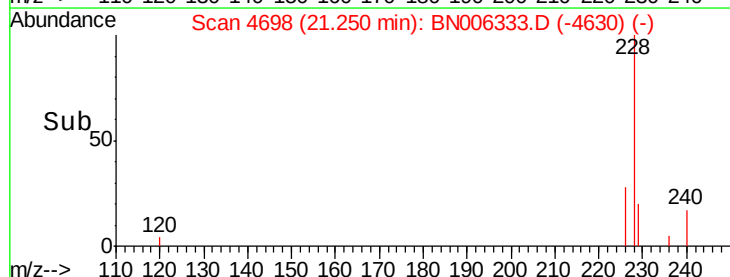
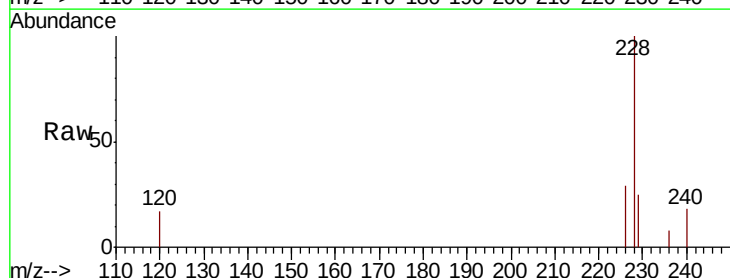
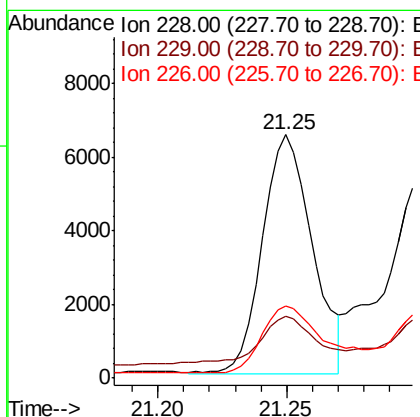
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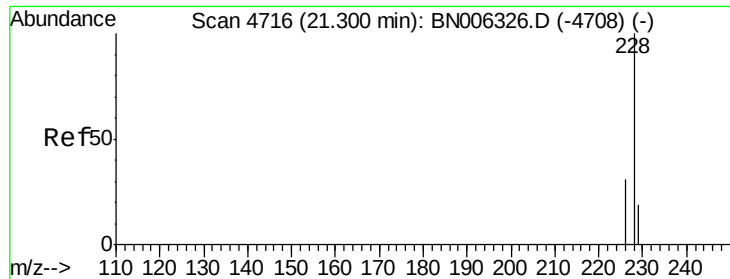
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#18  
**Benzo(a)anthracene**  
 Concen: 0.181 ng/ul m  
 RT: 21.25 min Scan# 4698  
 Delta R.T. -0.00 min  
 Lab File: BN006333.D  
 Acq: 14 Jun 2019 13:22

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 25.5  | 16.5       | 24.7#      |
| 226     | 29.4  | 22.8       | 34.2       |





#19

Chrysene

Concen: 0.219 ng/ul m

RT: 21.30 min Scan# 4716

Delta R.T. -0.00 min

Lab File: BN006333.D

Acq: 14 Jun 2019 13:22

Instrument :

BNA\_N

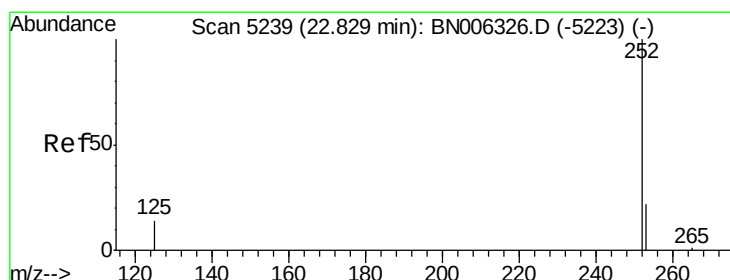
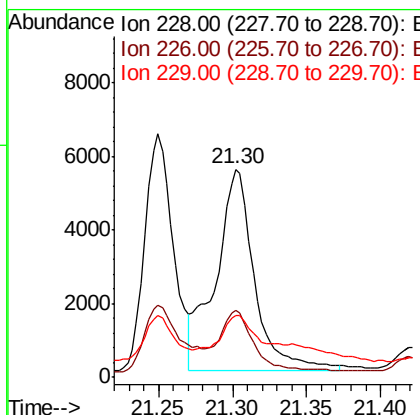
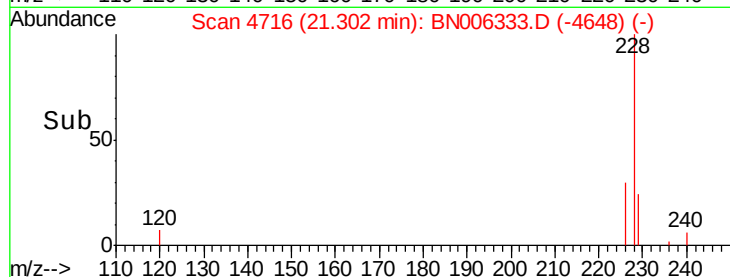
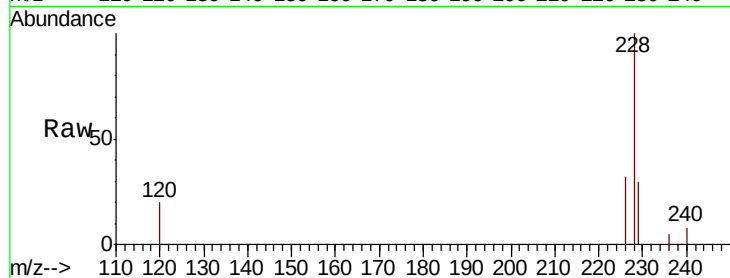
ClientSampleId :

A4229

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 10019 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.9  | 25.0  | 37.6  |
| 229       | 29.9  | 16.3  | 24.5# |

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#21

Benzo(b)fluoranthene

Concen: 0.311 ng/ul m

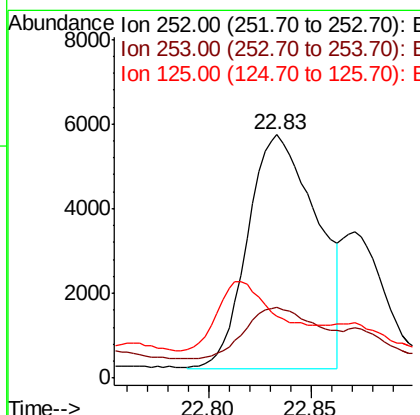
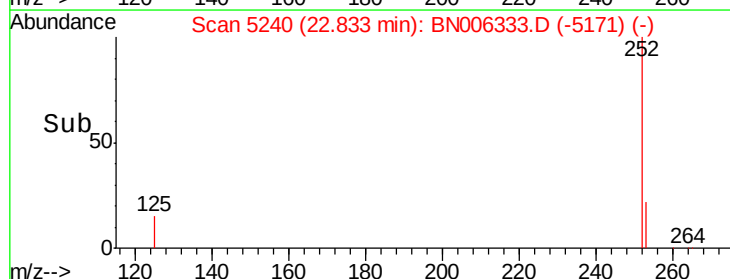
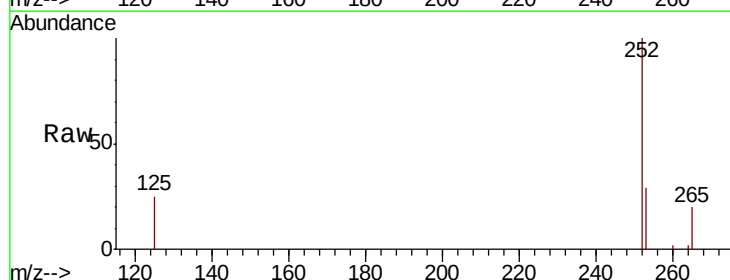
RT: 22.83 min Scan# 5240

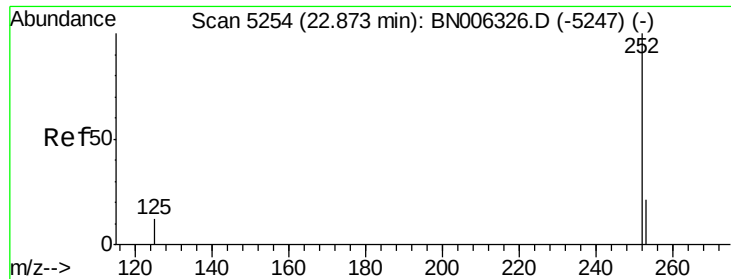
Delta R.T. 0.00 min

Lab File: BN006333.D

Acq: 14 Jun 2019 13:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 12974 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 29.0  | 0.0   | 51.4  |
| 125       | 25.5  | 0.0   | 41.0  |





#22

Benzo(k)fluoranthene

Concen: 0.122 ng/ul m

RT: 22.87 min Scan# 5253

Delta R.T. -0.00 min

Lab File: BN006333.D

Acq: 14 Jun 2019 13:22

Instrument :

BNA\_N

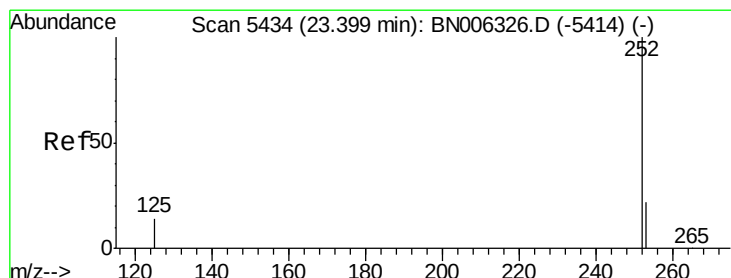
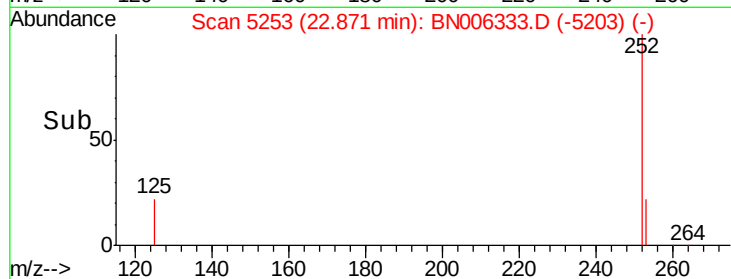
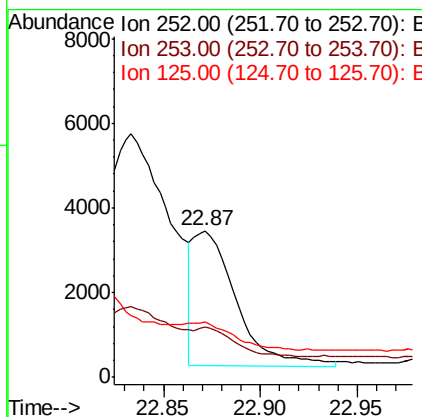
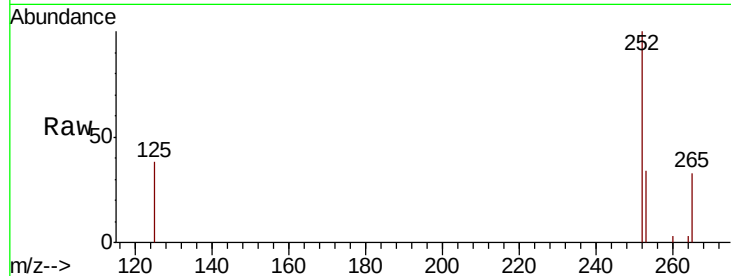
ClientSampleId :

A4229

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 4963  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 34.1  | 20.3  | 30.5# |
| 125       | 38.0  | 14.3  | 21.5# |

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#23

Benzo(a)pyrene

Concen: 0.231 ng/ul

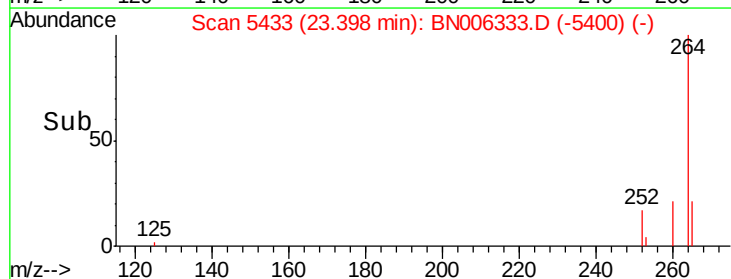
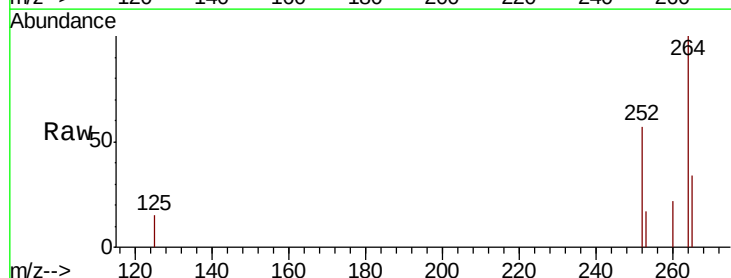
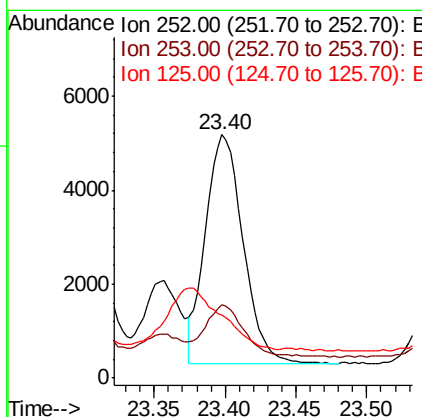
RT: 23.40 min Scan# 5433

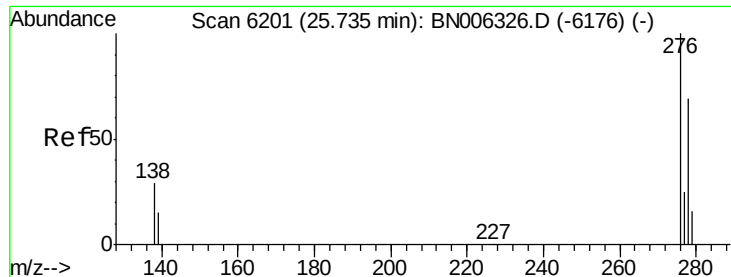
Delta R.T. -0.00 min

Lab File: BN006333.D

Acq: 14 Jun 2019 13:22

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 8976 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 29.9  | 21.1  | 31.7 |
| 125       | 25.9  | 20.3  | 30.5 |





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.150 ng/ul

RT: 25.74 min Scan# 6201

Delta R.T. 0.00 min

Lab File: BN006333.D

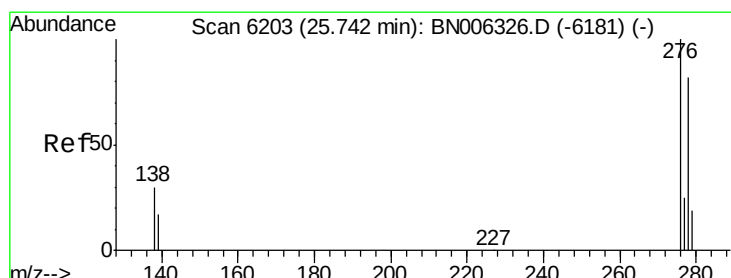
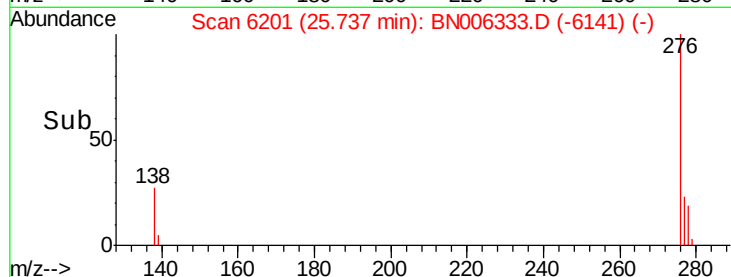
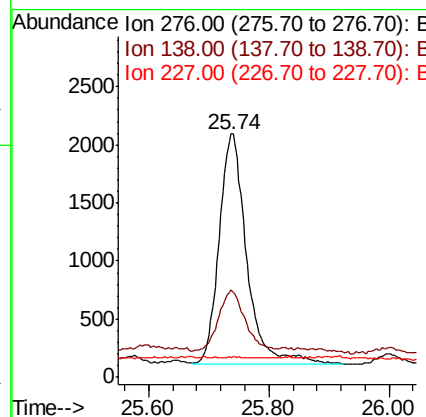
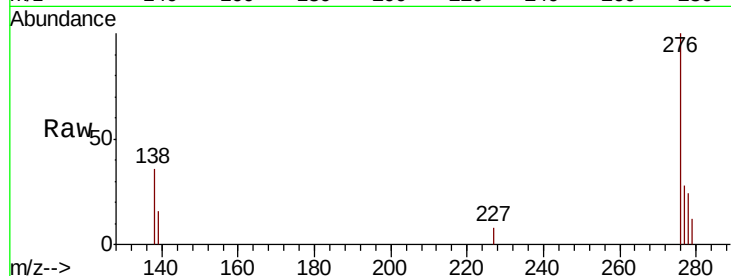
Acq: 14 Jun 2019 13:22

Instrument :  
BNA\_N  
ClientSampled :  
A4229

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.7  | 25.6  | 38.4  |
| 227     | 0.0   | 0.3   | 0.5   |

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#25

Dibenzo(a,h)anthracene

Concen: 0.046 ng/ul

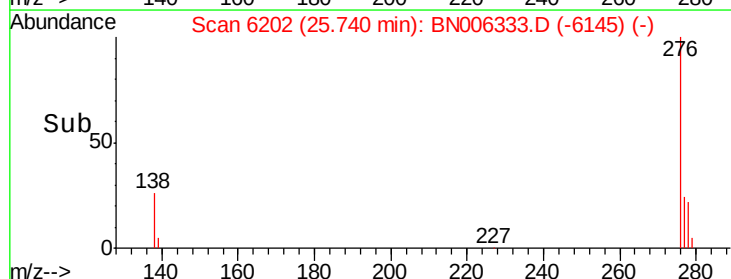
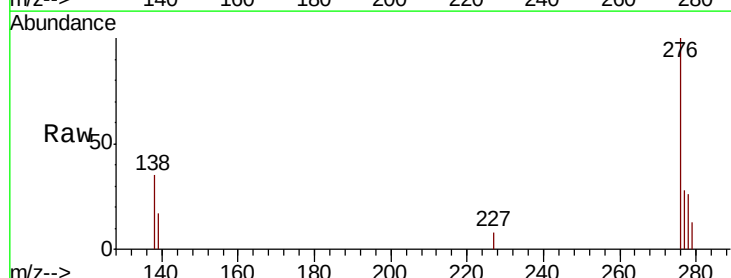
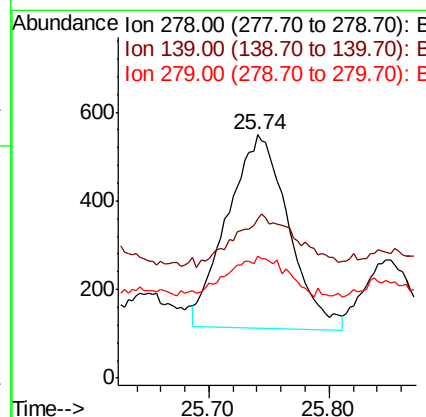
RT: 25.74 min Scan# 6202

Delta R.T. -0.01 min

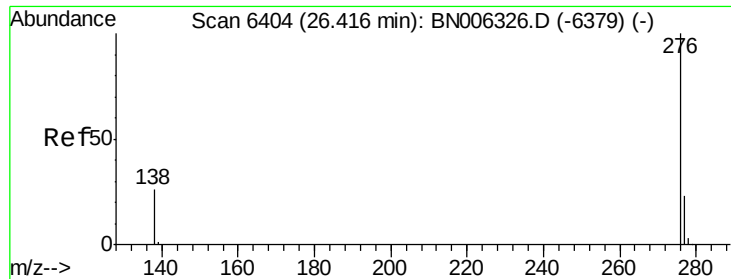
Lab File: BN006333.D

Acq: 14 Jun 2019 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 65.2  | 21.2  | 31.8  |
| 279     | 50.1  | 22.6  | 33.8  |

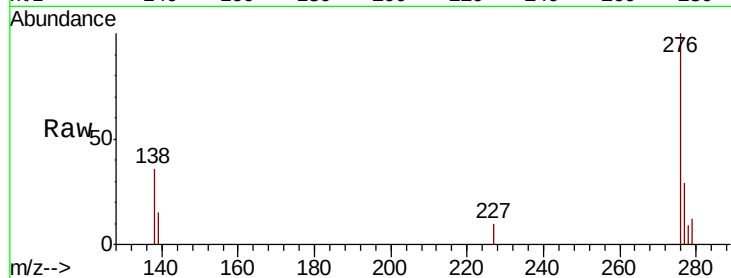






#26  
 Benzo(g,h,i)perylene  
 Concen: 0.133 ng/ul  
 RT: 26.42 min Scan# 6404  
 Delta R.T. -0.00 min  
 Lab File: BN006333.D  
 Acq: 14 Jun 2019 13:22

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4229



|     |     |       |       |       |
|-----|-----|-------|-------|-------|
| Tgt | Ion | 276   | Resp: | 4675  |
|     | Ion | Ratio | Lower | Upper |
|     | 276 | 100   |       |       |
|     | 138 | 35.9  | 24.2  | 36.4  |
|     | 277 | 29.0  | 21.5  | 32.3  |

Manual Integrations  
 APPROVED

mohammad  
 6/17/2019 8:28:49 AM

