

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN062419\  
 Data File : BN006553.D  
 Acq On : 25 Jun 2019 04:07  
 Operator : HP/JU  
 Sample : K3388-08  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4219

Manual Integrations  
 APPROVED

mohammad  
 6/25/2019 10:21:13 PM

Quant Time: Jun 25 07:21:26 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 : Tue Jun 25 01:51:13 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.63  | 152  | 5649     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.41 | 136  | 20541    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.28 | 164  | 9958     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.04 | 188  | 18631m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.25 | 240  | 10411m   | 0.40   | ng/ul  | -0.02    |
| 20) Perylene-d12            | 23.47 | 264  | 11812m   | 0.40   | ng/ul  | -0.03    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.01 | 152  | 6251     | 0.20   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.08 | 212  | 11030m   | 0.22   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.46 | 128  | 5142     | 0.091  | ng/ul# | 95       |
| 5) 2-Methylnaphthalene      | 12.08 | 142  | 1715     | 0.043  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.00 | 152  | 9035     | 0.163  | ng/ul  | 97       |
| 8) Acenaphthene             | 14.34 | 153  | 18308    | 0.477  | ng/ul  | 100      |
| 9) Fluorene                 | 15.33 | 166  | 34370    | 0.765  | ng/ul  | 97       |
| 12) Phenanthrene            | 17.08 | 178  | 854028m  | 14.280 | ng/ul  |          |
| 13) Anthracene              | 17.17 | 178  | 217465m  | 3.808  | ng/ul  |          |
| 15) Fluoranthene            | 19.10 | 202  | 1591967m | 24.106 | ng/ul  |          |
| 17) Pyrene                  | 19.47 | 202  | 1229723  | 22.424 | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.23 | 228  | 662335m  | 14.384 | ng/ul  |          |
| 19) Chrysene                | 21.29 | 228  | 671312   | 15.530 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.81 | 252  | 870613m  | 17.676 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.85 | 252  | 321443m  | 6.700  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.38 | 252  | 589960   | 12.861 | ng/ul# | 85       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.71 | 276  | 420379   | 8.467  | ng/ul# | 89       |
| 25) Dibenzo(a,h)anthracene  | 25.71 | 278  | 106727   | 2.689  | ng/ul  | 95       |
| 26) Benzo(a,h,i)perylene    | 26.39 | 276  | 368071   | 8.851  | ng/ul  | 94       |

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

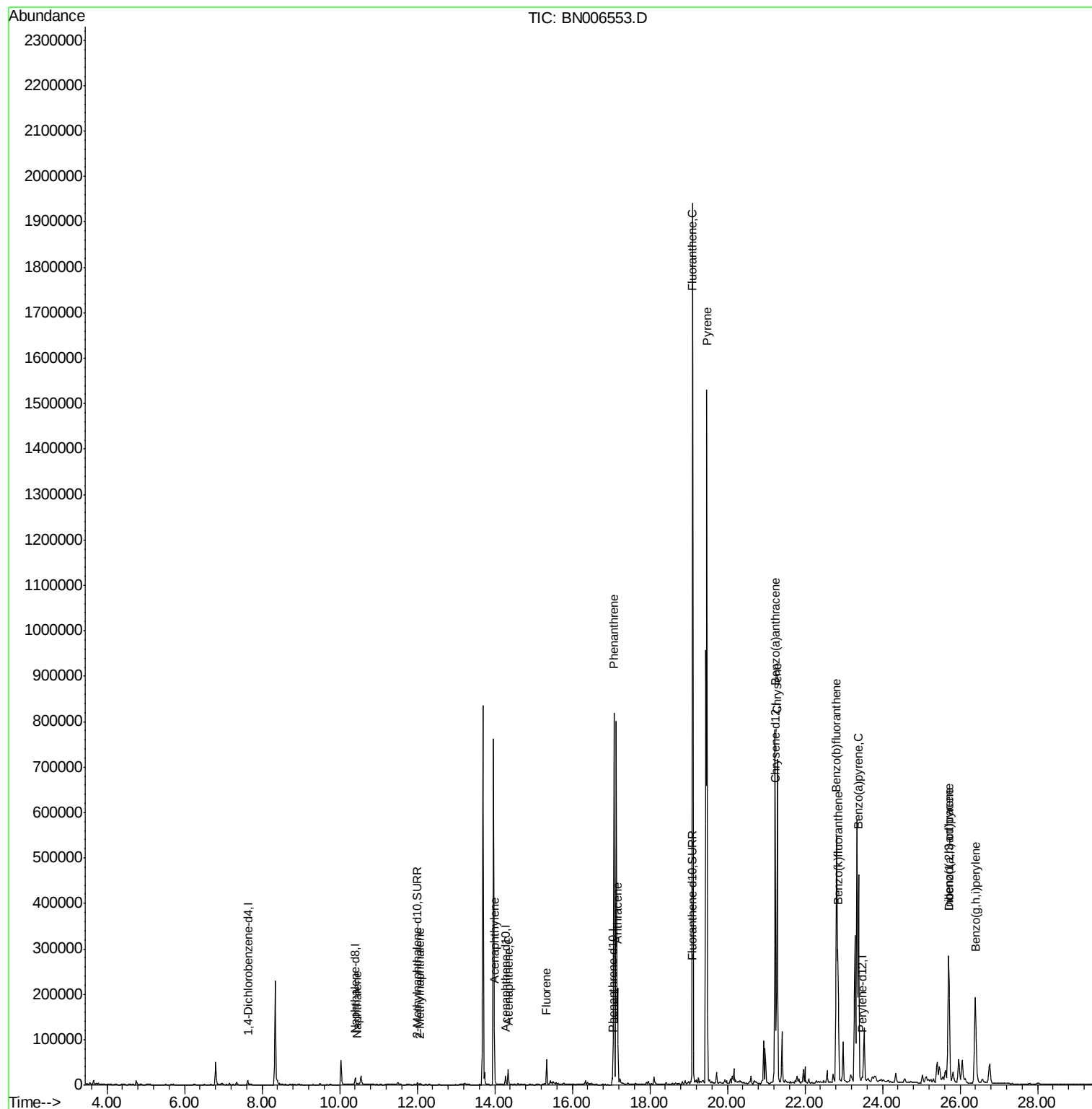
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN062419\  
Data File : BN006553.D  
Acq On : 25 Jun 2019 04:07  
Operator : HP/JU  
Sample : K3388-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

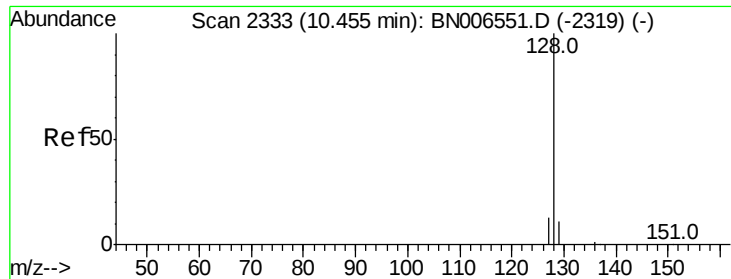
Instrument :  
BNA\_N  
ClientSampleId :  
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Quant Time: Jun 25 07:21:26 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 25 01:51:13 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.091 ng/ul

RT: 10.46 min Scan# 2333

Delta R.T. 0.00 min

Lab File: BN006553.D

Acq: 25 Jun 2019 04:07

Instrument :

BNA\_N

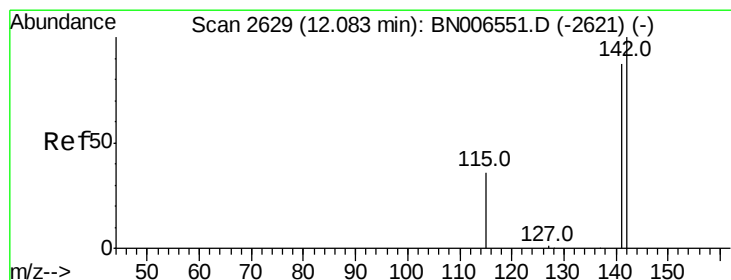
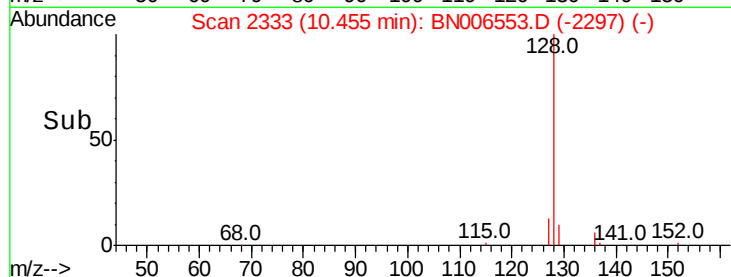
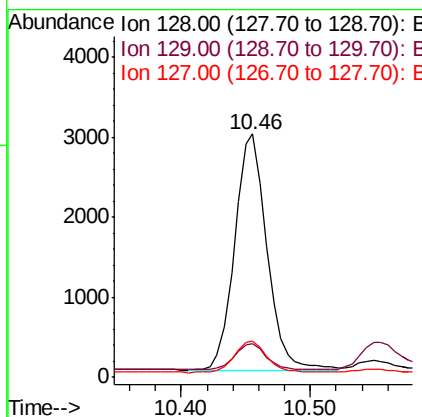
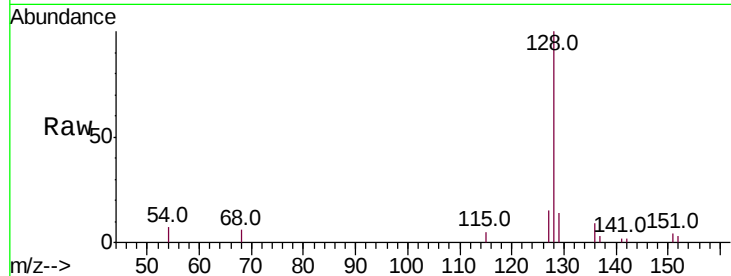
ClientSampleId :

A4219

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 5142  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 14.0  | 9.3   | 13.9# |
| 127      | 14.8  | 10.7  | 16.1  |

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#5

2-Methylnaphthalene

Concen: 0.043 ng/ul

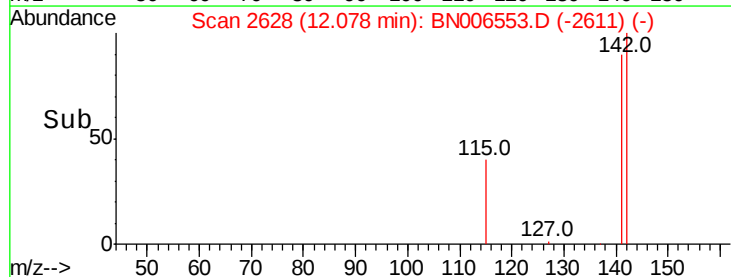
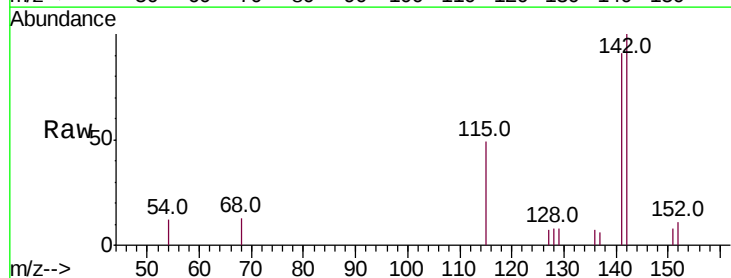
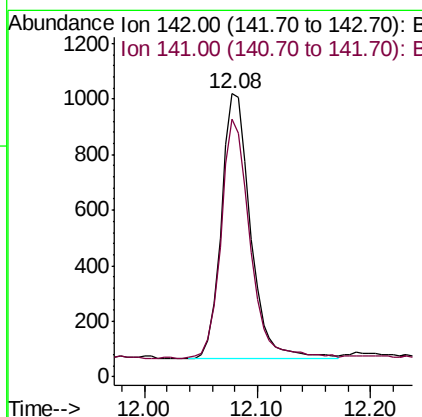
RT: 12.08 min Scan# 2628

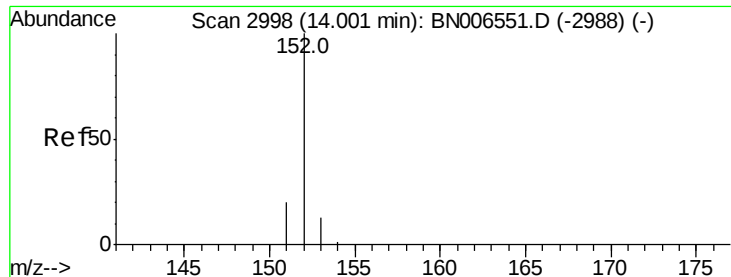
Delta R.T. -0.01 min

Lab File: BN006553.D

Acq: 25 Jun 2019 04:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 1715  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 89.1  | 70.3  | 105.5 |





#7

Acenaphthylene

Concen: 0.163 ng/ul

RT: 14.00 min Scan# 2997

Delta R.T. -0.00 min

Lab File: BN006553.D

Acq: 25 Jun 2019 04:07

Instrument :

BNA\_N

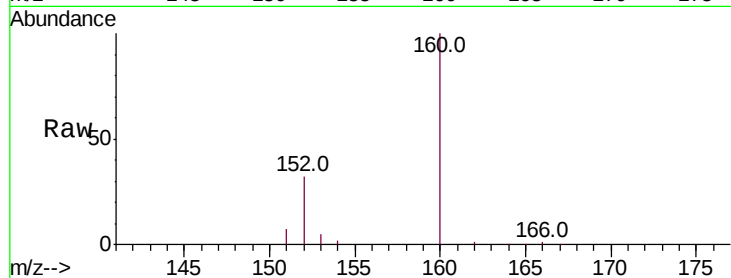
ClientSampleId :

A4219

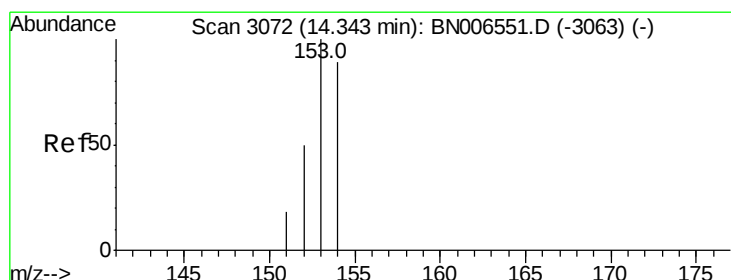
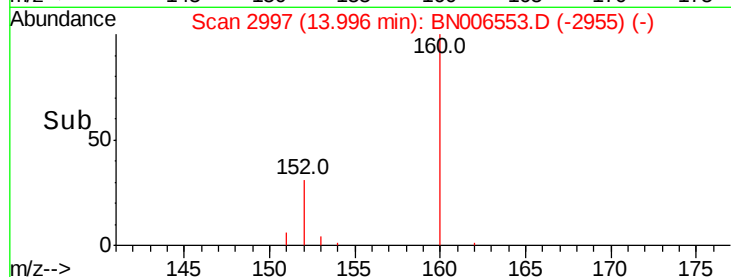
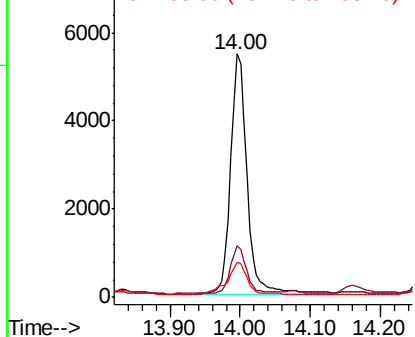
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 9035 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 21.3  | 15.8  | 23.8 |
| 153       | 14.5  | 10.8  | 16.2 |

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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



#8

Acenaphthene

Concen: 0.477 ng/ul

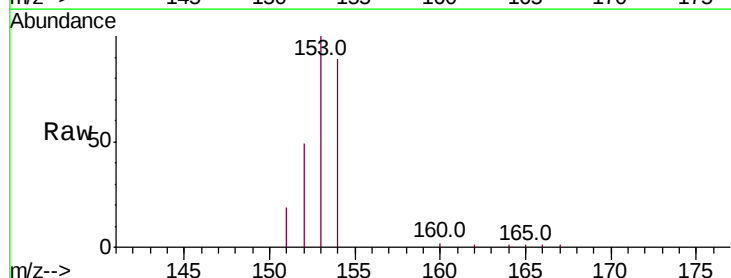
RT: 14.34 min Scan# 3072

Delta R.T. 0.00 min

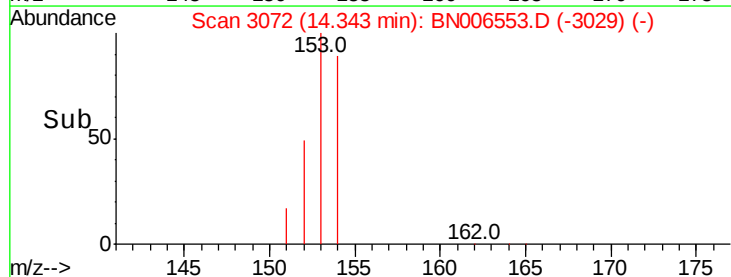
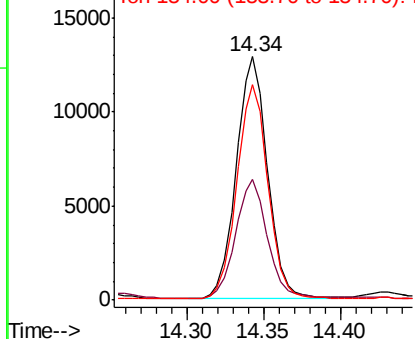
Lab File: BN006553.D

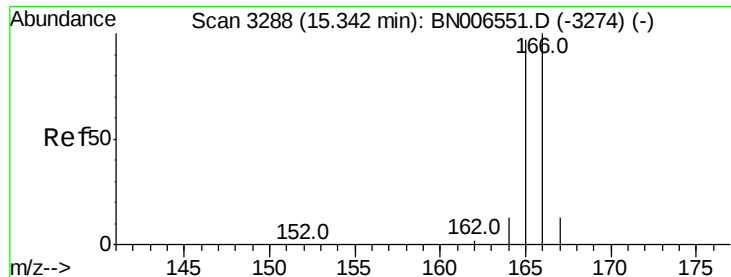
Acq: 25 Jun 2019 04:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 18308 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 49.4  | 39.1  | 58.7  |
| 154       | 88.7  | 71.1  | 106.7 |



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: 0.765 ng/ul

RT: 15.33 min Scan# 3286

Delta R.T. -0.00 min

Lab File: BN006553.D

Acq: 25 Jun 2019 04:07

Instrument :

BNA\_N

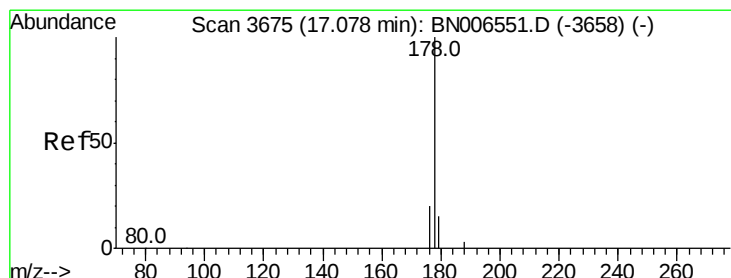
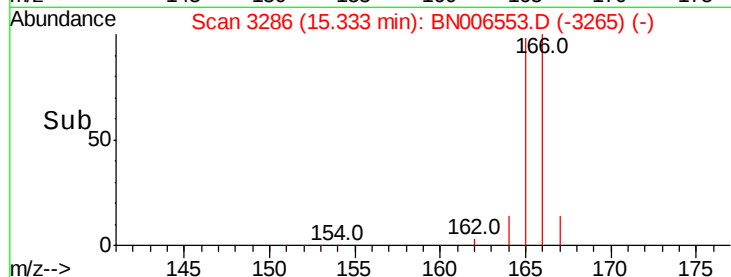
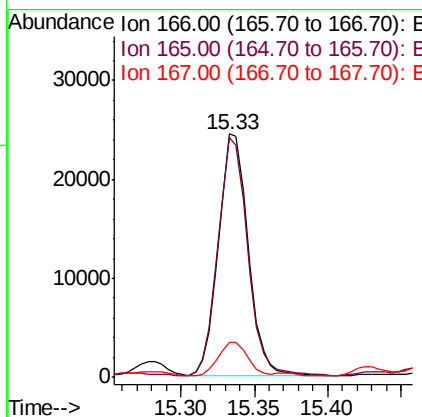
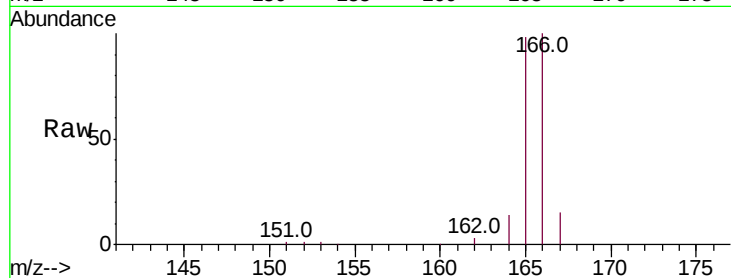
ClientSampleId :

A4219

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 166   | Resp: | 34370 |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 98.4  | 76.4  | 114.6 |
| 167      | 14.6  | 11.0  | 16.6  |

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#12

Phenanthrene

Concen: 14.280 ng/ul m

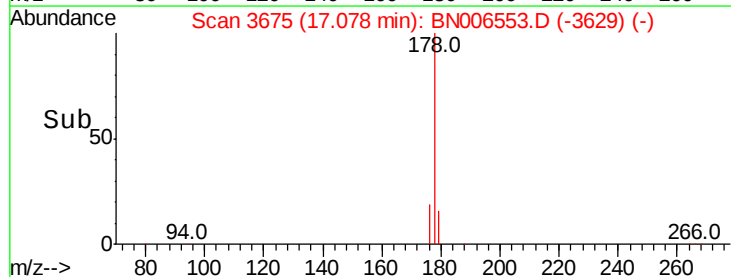
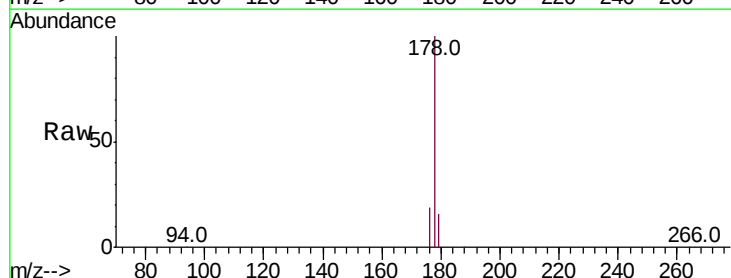
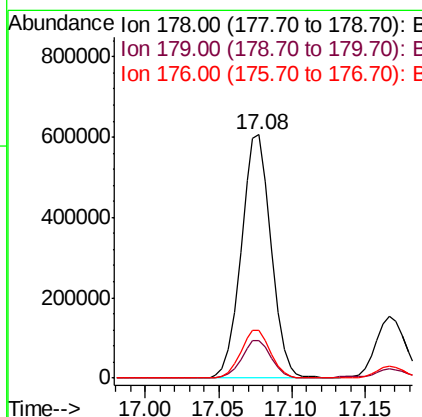
RT: 17.08 min Scan# 3675

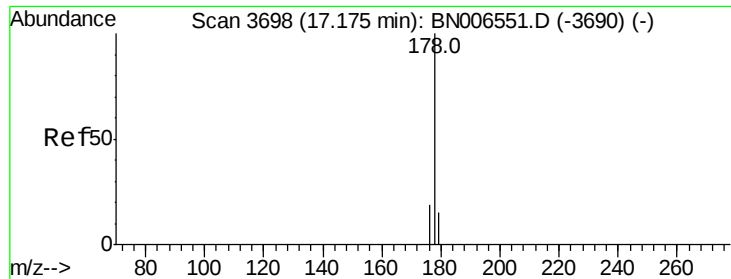
Delta R.T. -0.00 min

Lab File: BN006553.D

Acq: 25 Jun 2019 04:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 178   | Resp: | 854028 |
| Ion      | Ratio | Lower | Upper  |
| 178      | 100   |       |        |
| 179      | 15.6  | 12.3  | 18.5   |
| 176      | 19.4  | 15.3  | 22.9   |





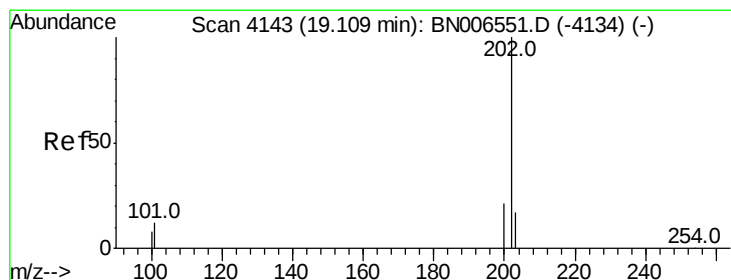
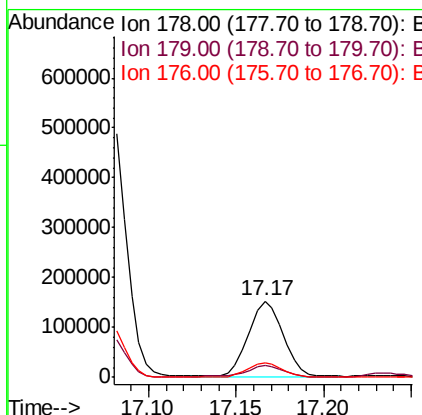
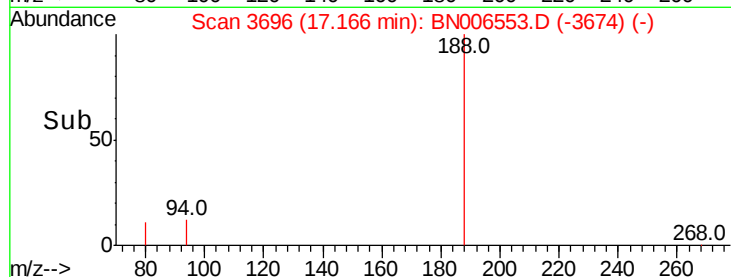
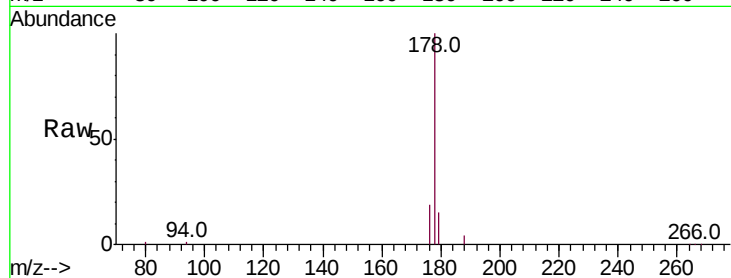
#13  
 Anthracene  
 Concen: 3.808 ng/ul m  
 RT: 17.17 min Scan# 3696  
 Delta R.T. -0.01 min  
 Lab File: BN006553.D  
 Acq: 25 Jun 2019 04:07

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 12.2  | 18.4  |
| 176     | 18.9  | 15.1  | 22.7  |

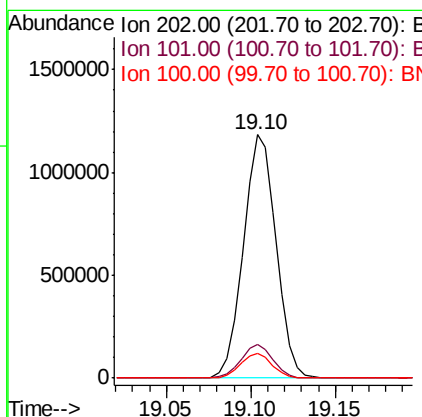
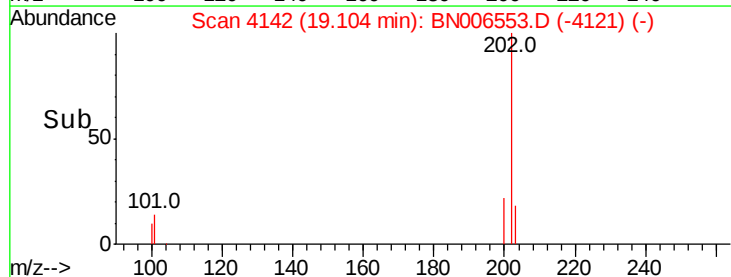
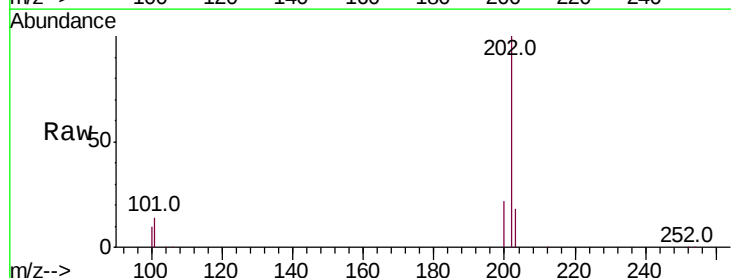
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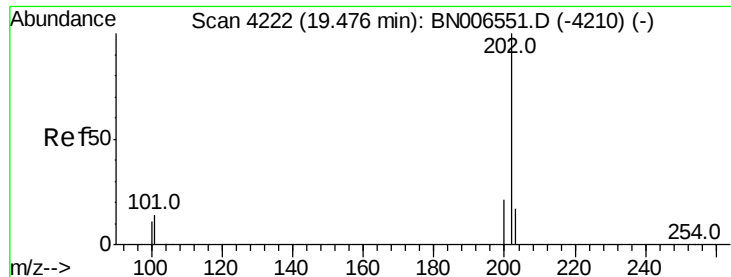
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#15  
 Fluoranthene  
 Concen: 24.106 ng/ul m  
 RT: 19.10 min Scan# 4142  
 Delta R.T. -0.00 min  
 Lab File: BN006553.D  
 Acq: 25 Jun 2019 04:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.1  | 0.0   | 32.1  |
| 100     | 10.3  | 0.0   | 28.7  |





#17

Pvrene

Concen: 22.424 ng/ul

RT: 19.47 min Scan# 4221

Delta R.T. -0.01 min

Lab File: BN006553.D

Acq: 25 Jun 2019 04:07

Instrument :

BNA\_N

ClientSampleId :

A4219

Tot Ion:202 Resp: 1229723

Ion Ratio Lower Upper

202 100

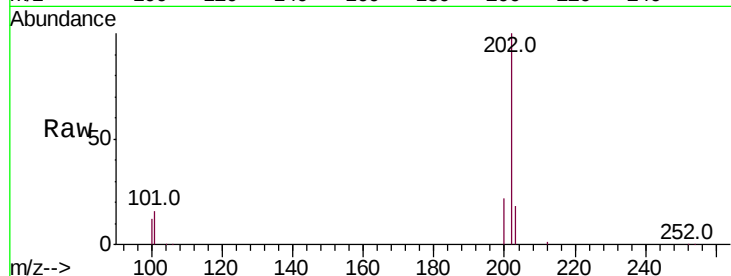
101 15.7 12.2 18.2

100 12.4 9.8 14.6

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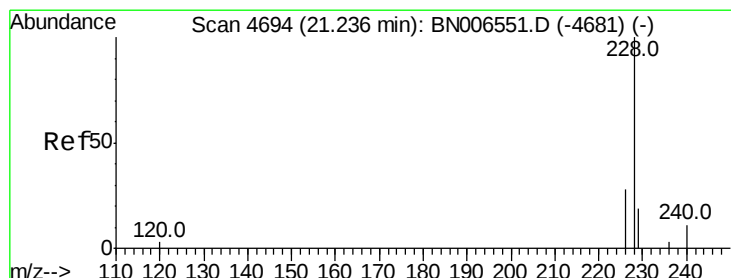
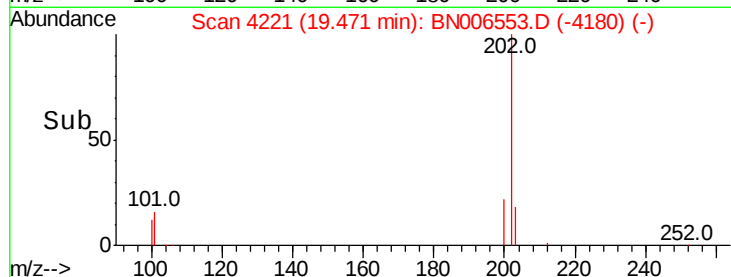
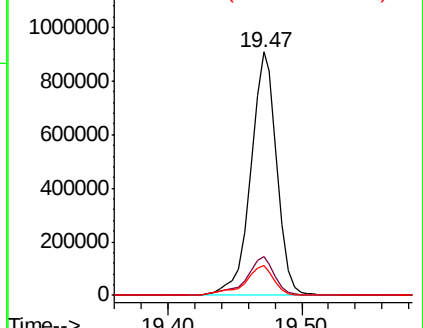
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



#18

Benzo(a)anthracene

Concen: 14.384 ng/ul m

RT: 21.23 min Scan# 4693

Delta R.T. -0.01 min

Lab File: BN006553.D

Acq: 25 Jun 2019 04:07

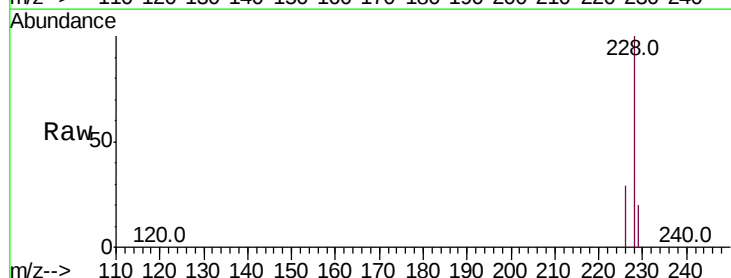
Tgt Ion:228 Resp: 662335

Ion Ratio Lower Upper

228 100

229 20.3 16.5 24.7

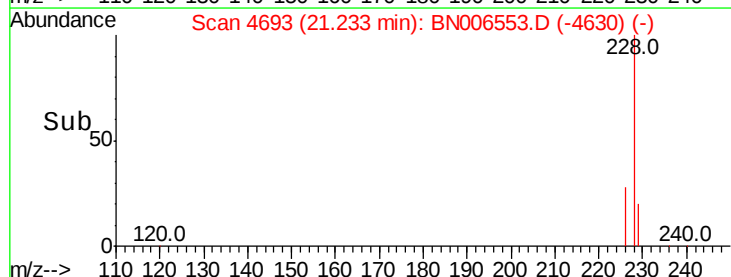
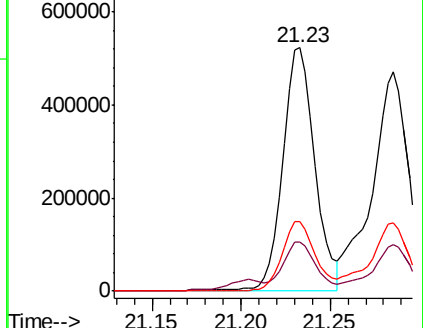
226 28.5 22.8 34.2

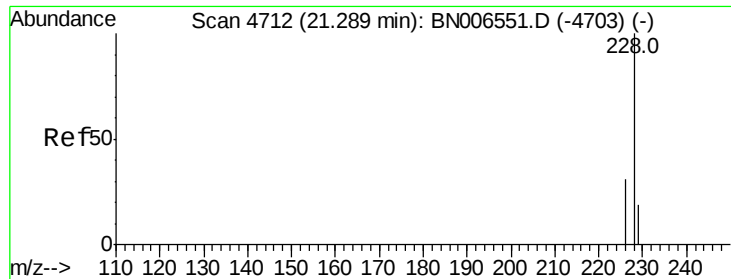


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 15.530 ng/ul

RT: 21.29 min Scan# 4711

Delta R.T. -0.01 min

Lab File: BN006553.D

Acq: 25 Jun 2019 04:07

Instrument :

BNA\_N

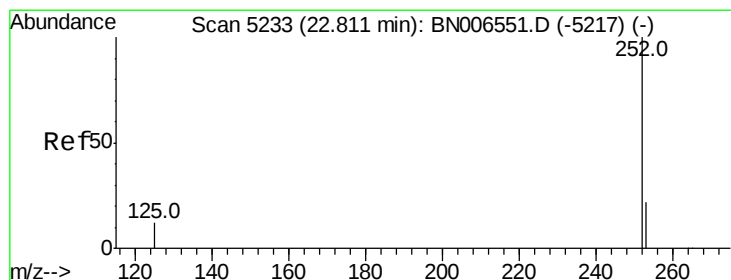
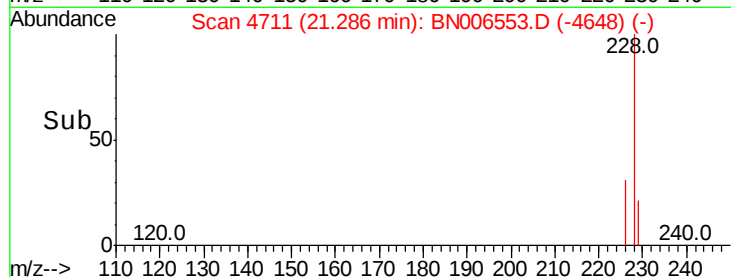
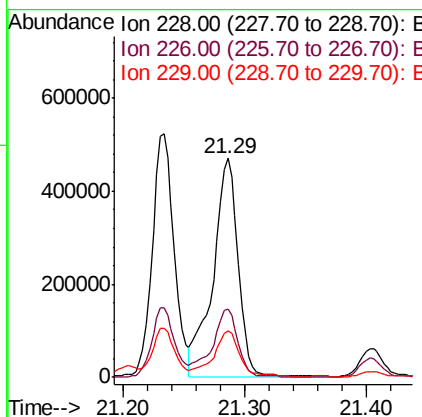
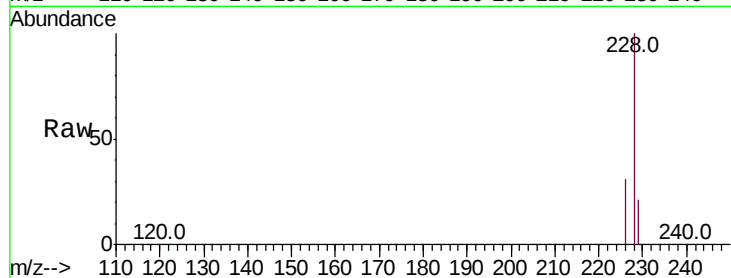
ClientSampleId :

A4219

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 671312 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.0  | 25.0  | 37.6   |
| 229       | 21.4  | 16.3  | 24.5   |

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#21

Benzo(b)fluoranthene

Concen: 17.676 ng/ul m

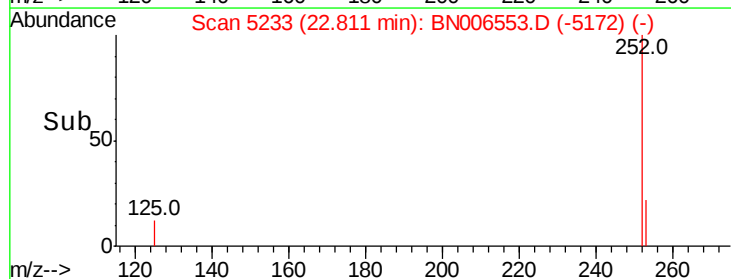
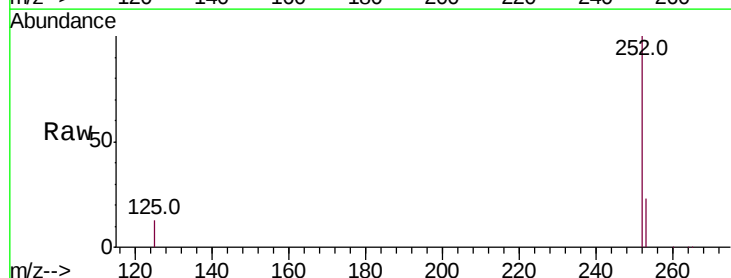
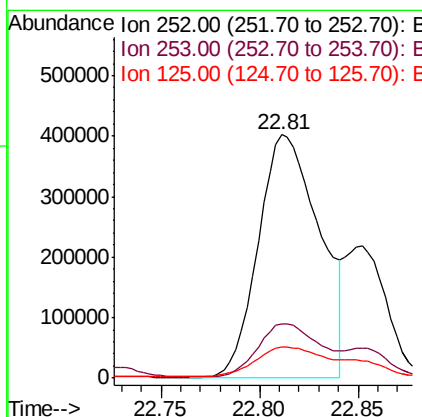
RT: 22.81 min Scan# 5233

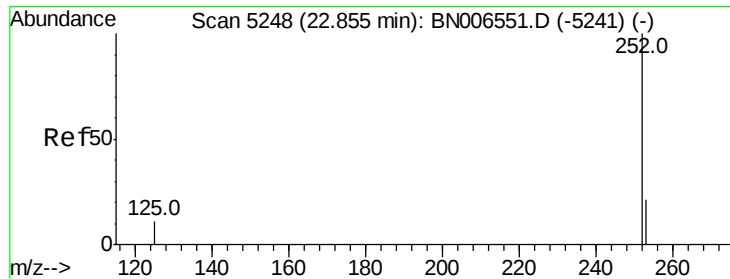
Delta R.T. -0.02 min

Lab File: BN006553.D

Acq: 25 Jun 2019 04:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 870613 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.5  | 0.0   | 51.4   |
| 125       | 12.7  | 0.0   | 41.0   |





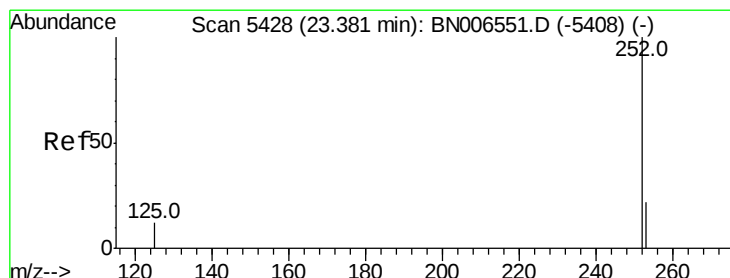
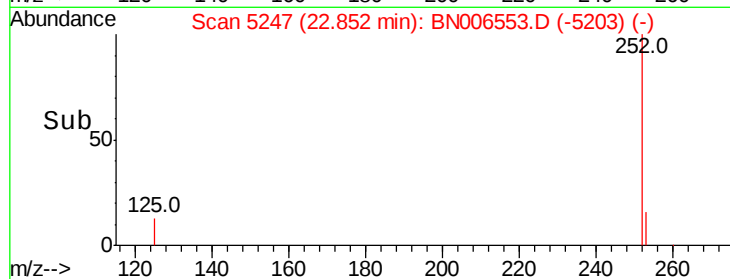
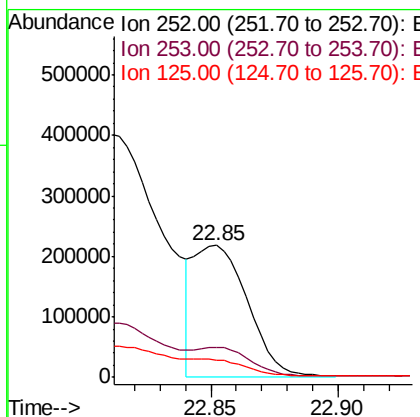
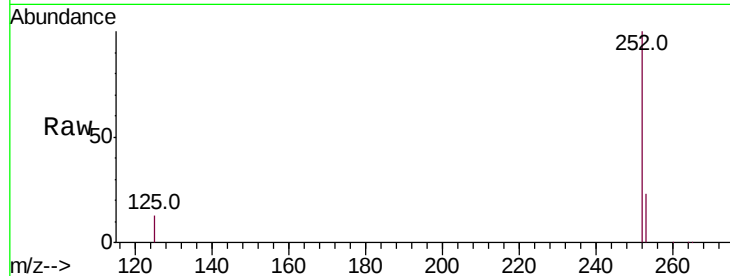
#22  
Benzo(k)fluoranthene  
Concen: 6.700 ng/ul m  
RT: 22.85 min Scan# 5247  
Delta R.T. -0.02 min  
Lab File: BN006553.D  
Acq: 25 Jun 2019 04:07

Instrument :  
BNA\_N  
ClientSampled :  
A4219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 20.3  | 30.5  |
| 125     | 13.4  | 14.3  | 21.5# |

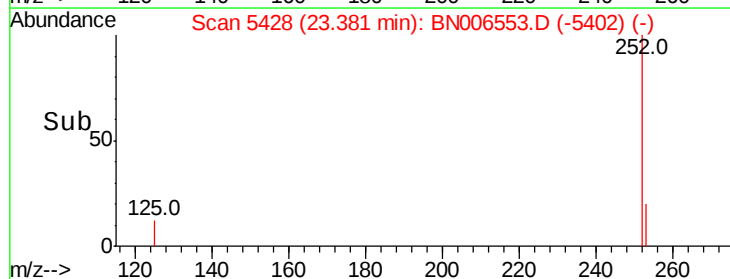
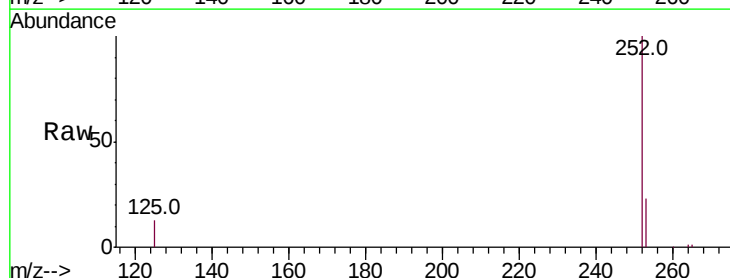
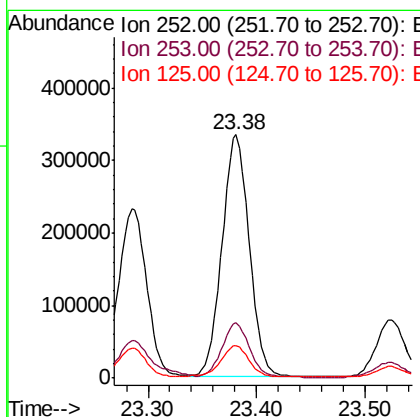
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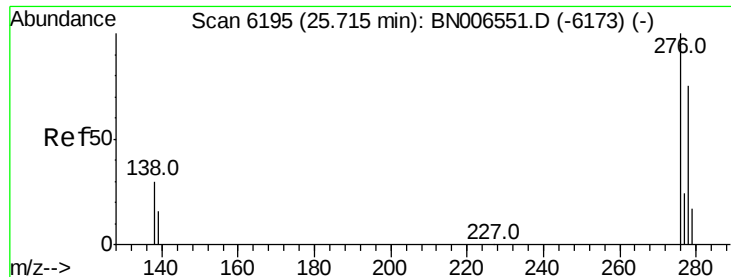
mohammad  
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#23  
Benzo(a)pyrene  
Concen: 12.861 ng/ul  
RT: 23.38 min Scan# 5428  
Delta R.T. -0.02 min  
Lab File: BN006553.D  
Acq: 25 Jun 2019 04:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 21.1  | 31.7  |
| 125     | 13.4  | 20.3  | 30.5# |





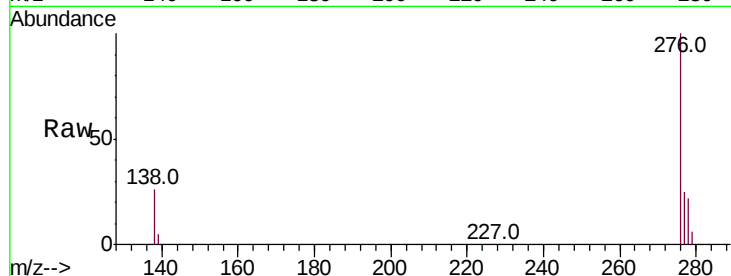
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 8.467 ng/ul  
RT: 25.71 min Scan# 6193  
Delta R.T. -0.03 min  
Lab File: BN006553.D  
Acq: 25 Jun 2019 04:07

Instrument :  
BNA\_N  
ClientSampleId :  
A4219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.9  | 25.6  | 38.4  |
| 227     | 0.2   | 0.3   | 0.5   |

Manual Integrations  
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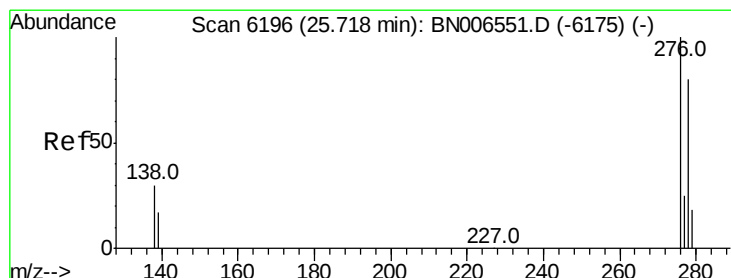
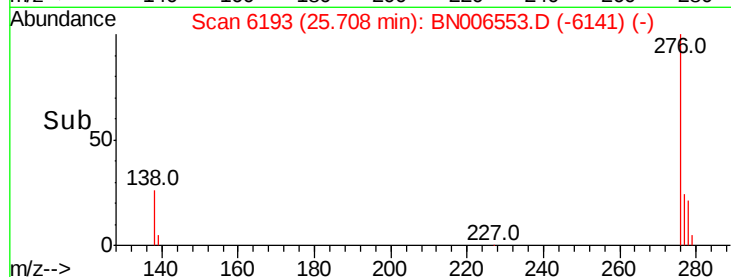
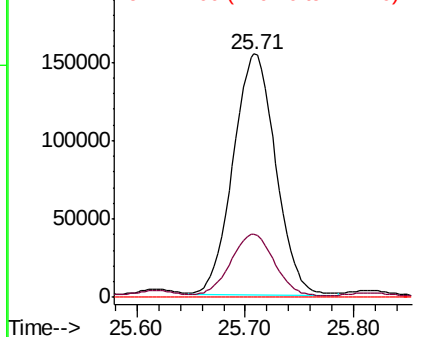


Abundance

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: 2.689 ng/ul  
RT: 25.71 min Scan# 6193  
Delta R.T. -0.03 min  
Lab File: BN006553.D  
Acq: 25 Jun 2019 04:07

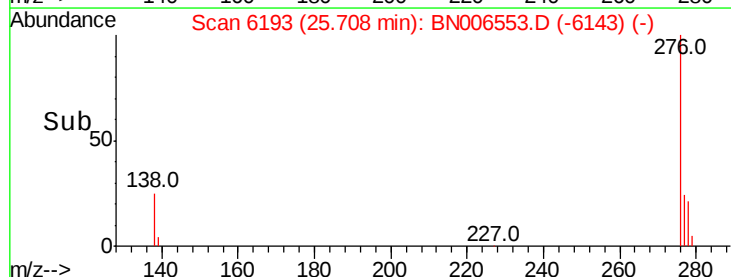
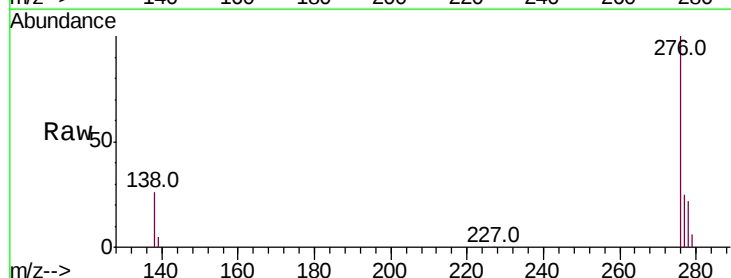
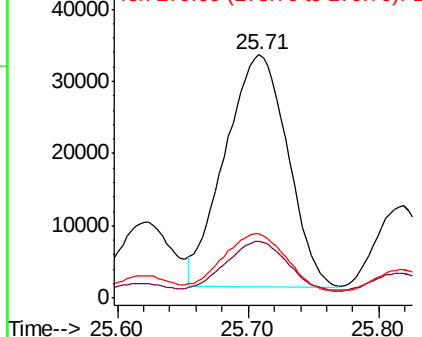
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 23.5  | 21.2  | 31.8  |
| 279     | 26.2  | 22.6  | 33.8  |

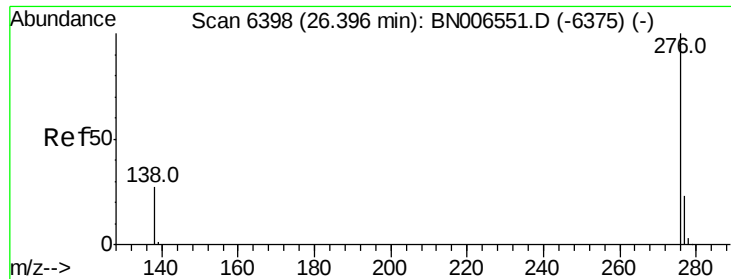
Abundance

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





#26

Benzo(a,h,i)perylene

Concen: 8.851 ng/ul

RT: 26.39 min Scan# 6397

Delta R.T. -0.03 min

Lab File: BN006553.D

Acq: 25 Jun 2019 04:07

Instrument :

BNA\_N

ClientSampleId :

A4219

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 368071 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 26.7  | 24.2  | 36.4   |
| 277       | 24.2  | 21.5  | 32.3   |

Manual Integrations  
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