

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN061219\  
 Data File : BN006284.D  
 Acq On : 12 Jun 2019 17:18  
 Operator : JU/SJ  
 Sample : K3083-03DL 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A51F6DL

Manual Integrations  
 APPROVED

mohammad  
 6/14/2019 8:33:56 AM

Quant Time: Jun 13 01:42:43 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 : Wed Jun 12 17:24:11 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.64  | 152  | 5596     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.42 | 136  | 21495    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.30 | 164  | 10963    | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.05 | 188  | 23269m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.28 | 240  | 12406m   | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.53 | 264  | 17777    | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152  | 1449     | 0.04   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.09 | 212  | 2487m    | 0.04   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.47 | 128  | 37181    | 0.627  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.09 | 142  | 12696    | 0.307  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.01 | 152  | 2485     | 0.041  | ng/ul# | 80       |
| 8) Acenaphthene             | 14.36 | 153  | 54894    | 1.299  | ng/ul  | 99       |
| 9) Fluorene                 | 15.35 | 166  | 48617    | 0.983  | ng/ul  | 98       |
| 12) Phenanthrene            | 17.09 | 178  | 565656m  | 7.573  | ng/ul  |          |
| 13) Anthracene              | 17.18 | 178  | 116432m  | 1.632  | ng/ul  |          |
| 15) Fluoranthene            | 19.12 | 202  | 649700m  | 7.877  | ng/ul  |          |
| 17) Pyrene                  | 19.49 | 202  | 504345   | 7.718  | ng/ul  | 100      |
| 18) Benzo(a)anthracene      | 21.27 | 228  | 245134m  | 4.468  | ng/ul  |          |
| 19) Chrysene                | 21.32 | 228  | 223216   | 4.333  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.86 | 252  | 273614m  | 3.691  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.90 | 252  | 104956m  | 1.454  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.43 | 252  | 188552   | 2.731  | ng/ul# | 89       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.77 | 276  | 124812   | 1.670  | ng/ul# | 89       |
| 25) Dibenzo(a,h)anthracene  | 25.78 | 278  | 31944    | 0.535  | ng/ul  | 93       |
| 26) Benzo(a,h,i)perylene    | 26.46 | 276  | 111801   | 1.786  | ng/ul  | 96       |

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

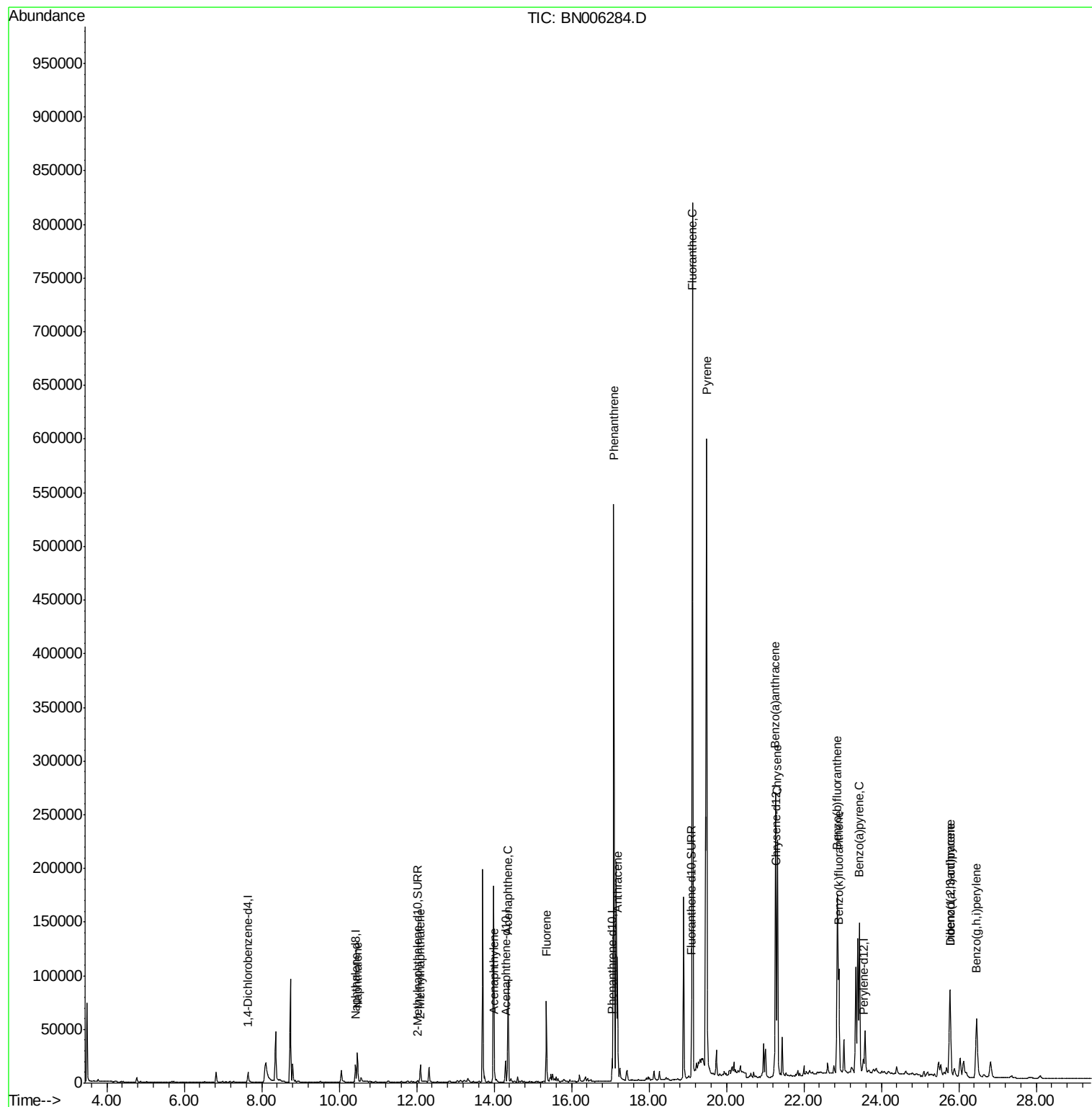
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN061219\  
Data File : BN006284.D  
Acq On : 12 Jun 2019 17:18  
Operator : JU/SJ  
Sample : K3083-03DL 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

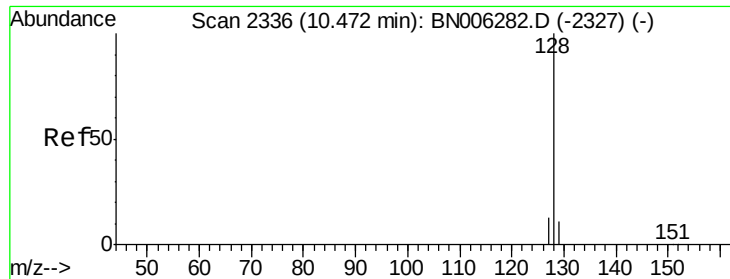
Instrument :  
BNA\_N  
ClientSampleId :  
A51F6DL

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:33:56 AM

Quant Time: Jun 13 01:42:43 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 : Wed Jun 12 17:24:11 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.627 ng/ul

RT: 10.47 min Scan# 2336

Delta R.T. -0.00 min

Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

Instrument :

BNA\_N

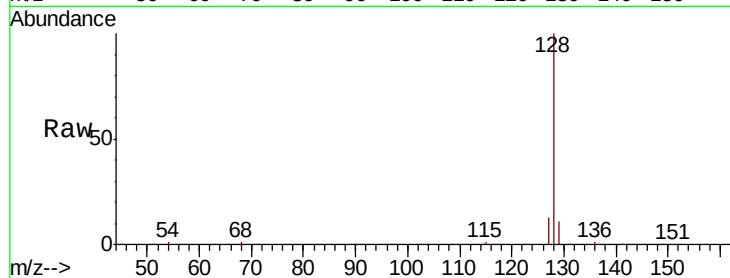
ClientSampleId :

A51F6DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 37181 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.3  | 9.3   | 13.9  |
| 127      | 13.3  | 10.7  | 16.1  |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:33:56 AM

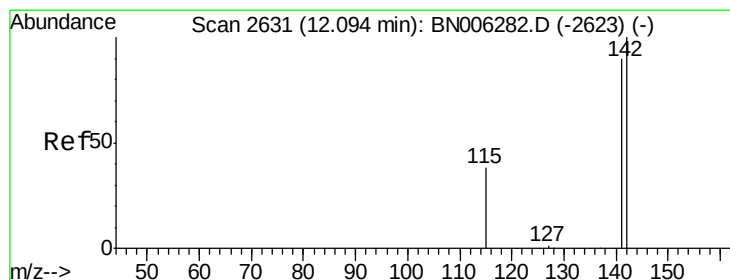
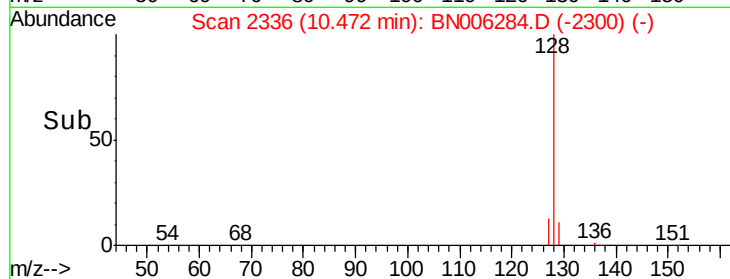
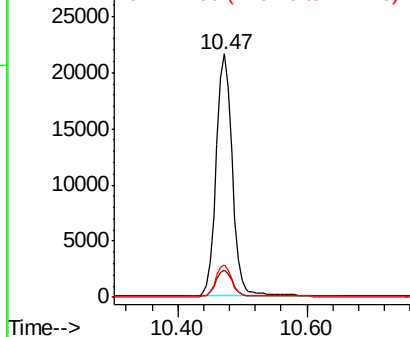


Abundance

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: 0.307 ng/ul

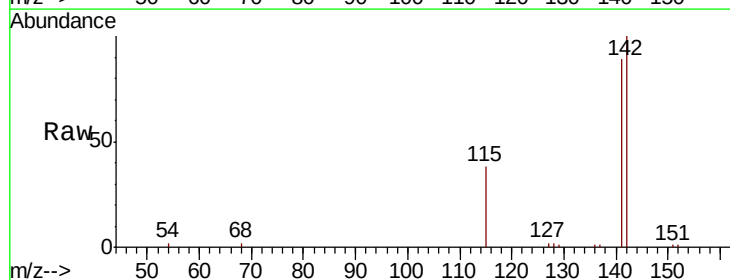
RT: 12.09 min Scan# 2631

Delta R.T. -0.00 min

Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

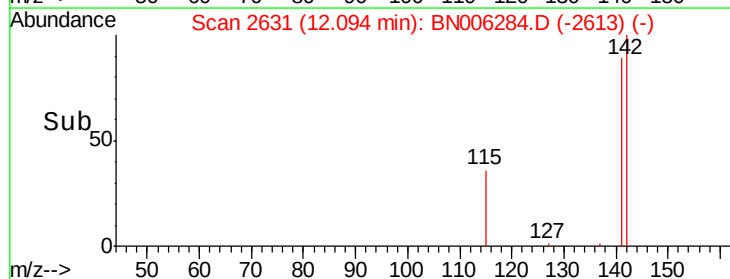
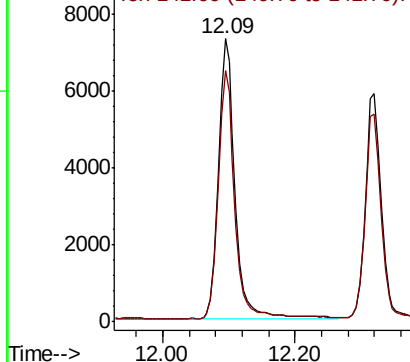
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 12696 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 88.5  | 70.3  | 105.5 |

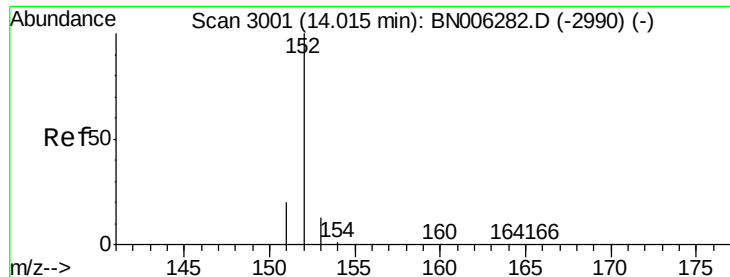


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.041 ng/ul

RT: 14.01 min Scan# 3001

Delta R.T. -0.00 min

Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

Instrument :

BNA\_N

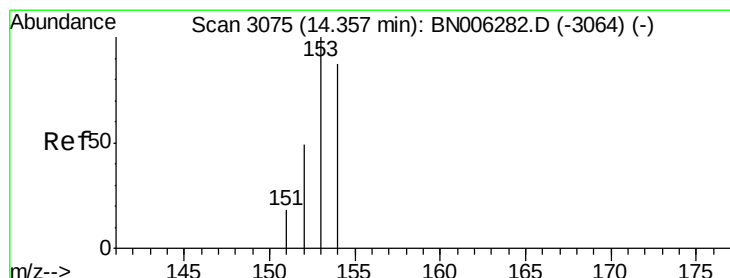
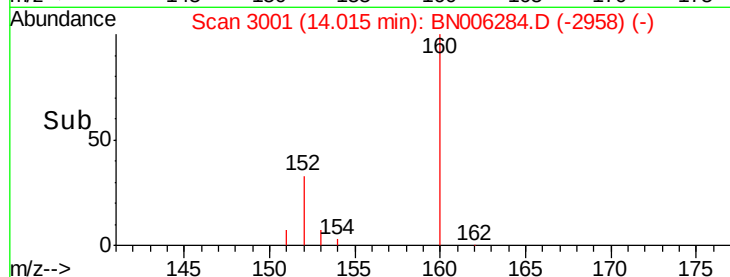
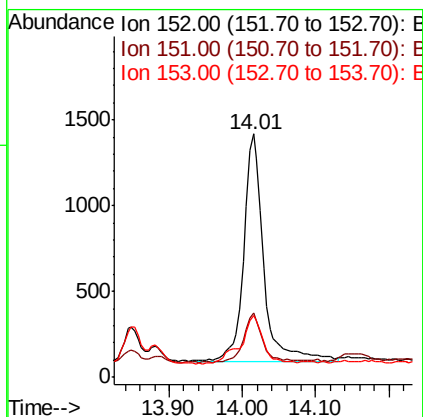
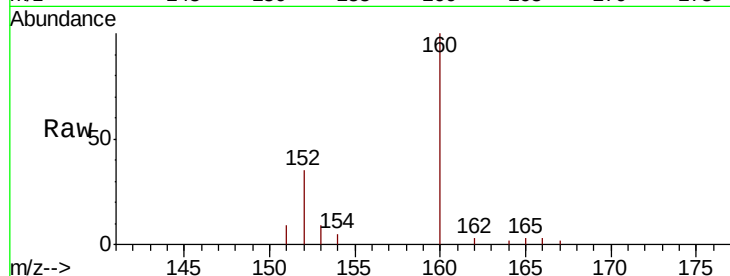
ClientSampleId :

A51F6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2485  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 26.3  | 15.8  | 23.8# |
| 153       | 25.4  | 10.8  | 16.2# |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:33:56 AM



#8

Acenaphthene

Concen: 1.299 ng/ul

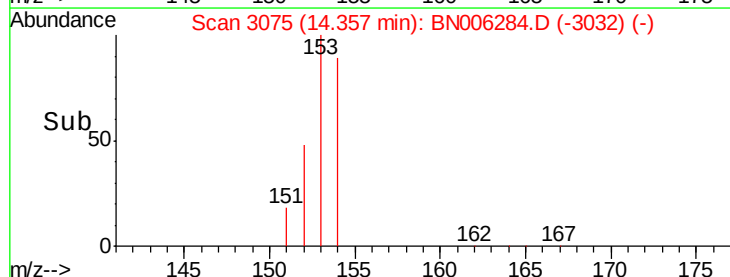
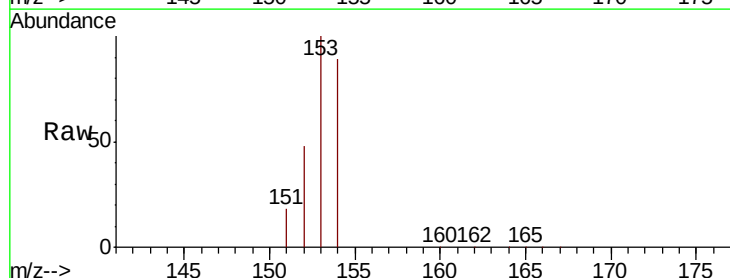
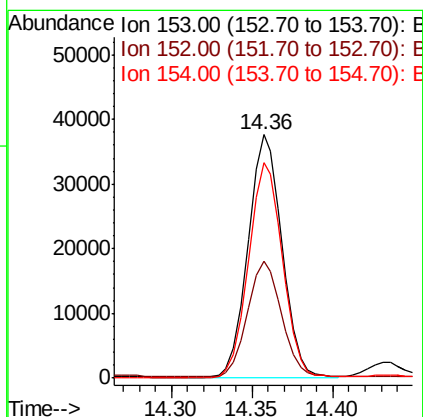
RT: 14.36 min Scan# 3075

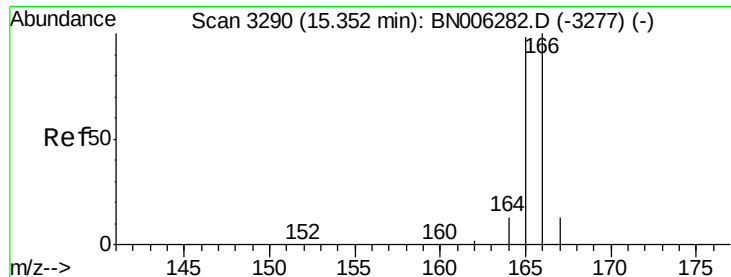
Delta R.T. -0.00 min

Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 54894 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.1  | 39.1  | 58.7  |
| 154       | 88.6  | 71.1  | 106.7 |





#9

Fluorene

Concen: 0.983 ng/ul

RT: 15.35 min Scan# 3290

Delta R.T. -0.00 min

Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

Instrument :

BNA\_N

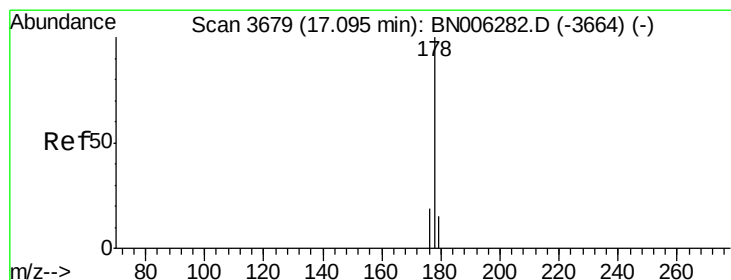
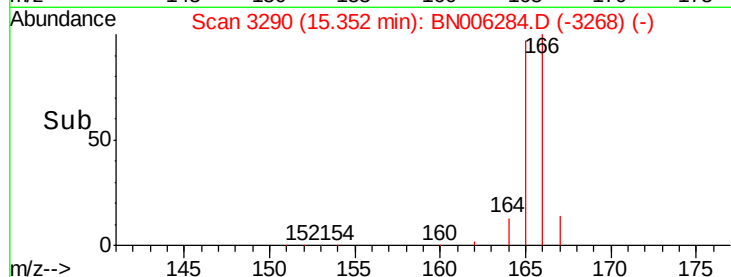
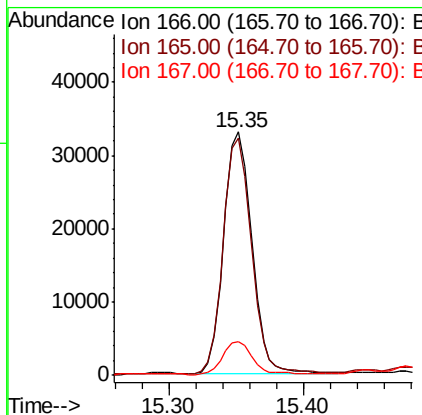
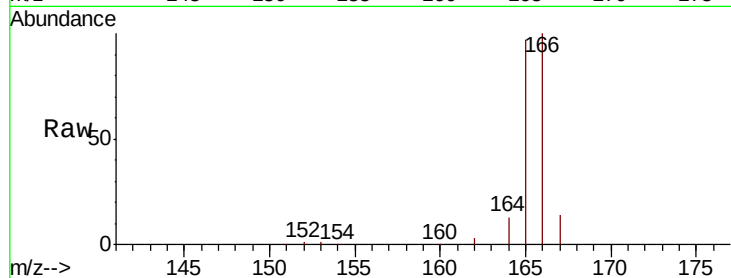
ClientSampleId :

A51F6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 48617 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 97.5  | 76.4  | 114.6 |
| 167       | 14.0  | 11.0  | 16.6  |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:33:56 AM



#12

Phenanthrene

Concen: 7.573 ng/ul m

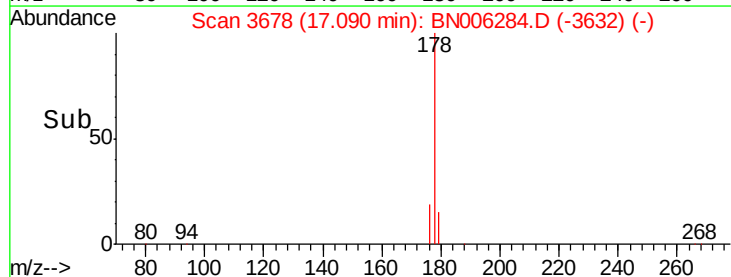
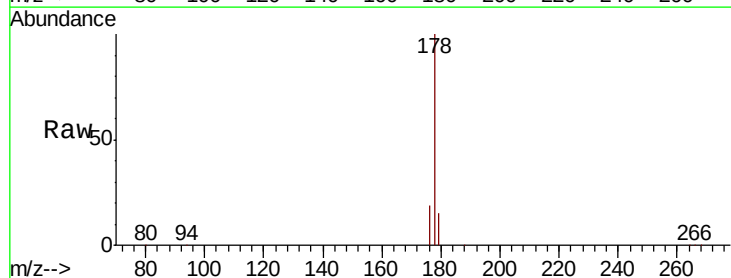
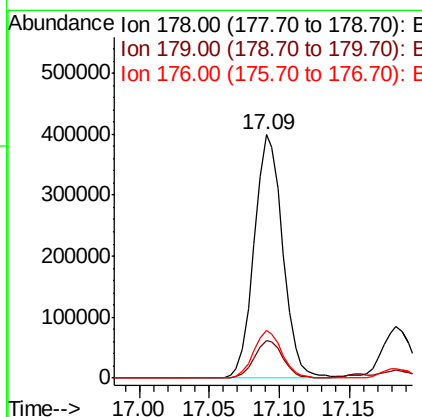
RT: 17.09 min Scan# 3678

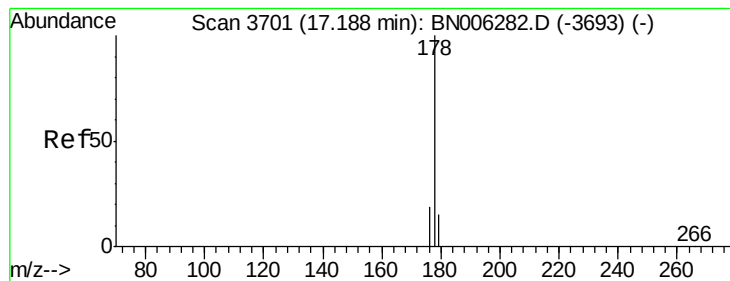
Delta R.T. -0.00 min

Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 565656 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.2  | 12.3  | 18.5   |
| 176       | 19.4  | 15.3  | 22.9   |





#13

Anthracene

Concen: 1.632 ng/ul m

RT: 17.18 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

Instrument :

BNA\_N

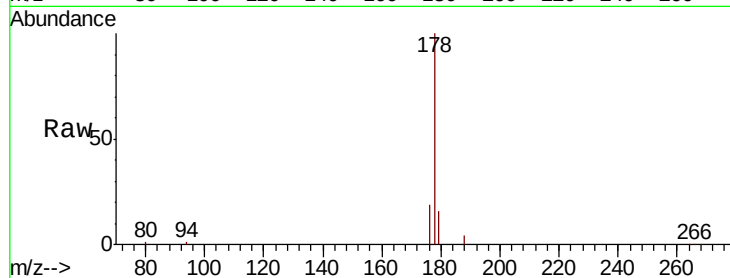
ClientSampleId :

A51F6DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 116432 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.8  | 12.2  | 18.4   |
| 176       | 18.9  | 15.1  | 22.7   |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:33:56 AM

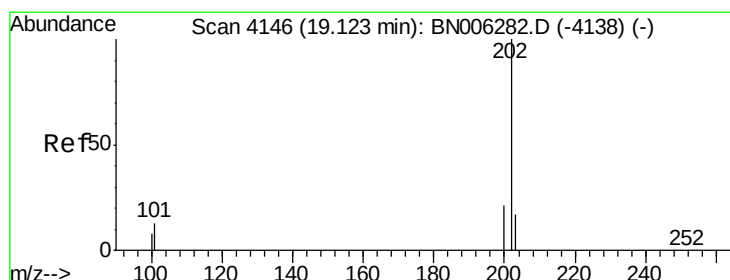
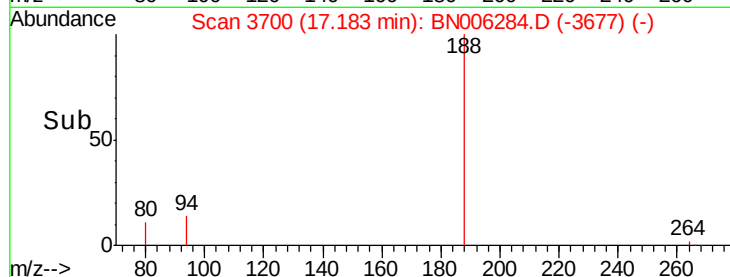
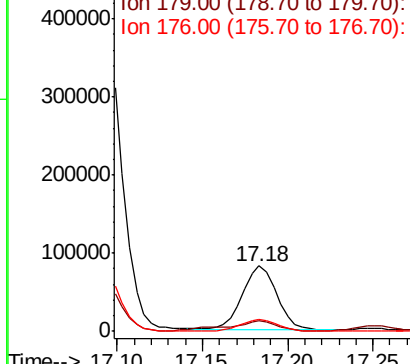


Abundance

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: 7.877 ng/ul m

RT: 19.12 min Scan# 4146

Delta R.T. -0.00 min

Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

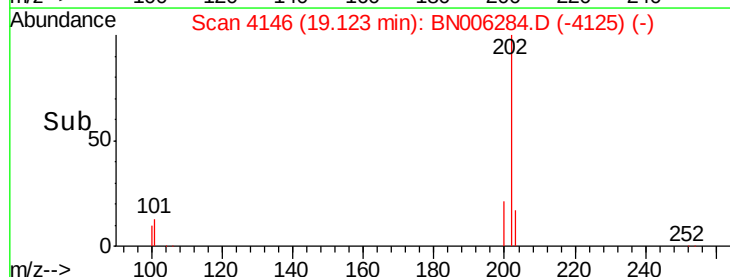
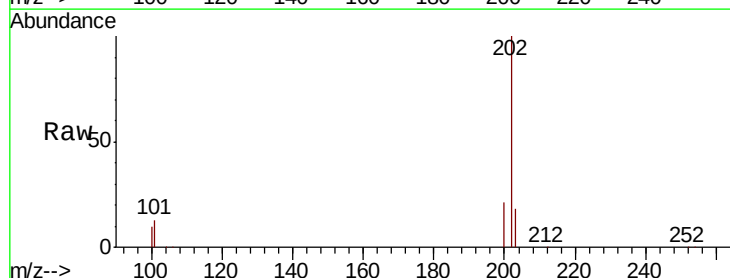
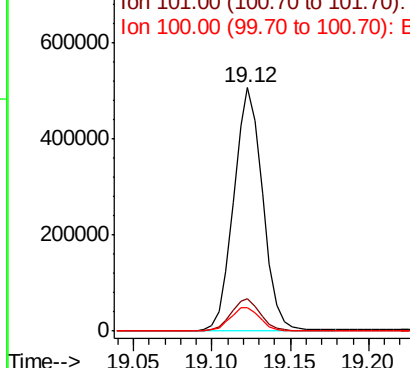
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 649700 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 13.3  | 0.0   | 32.1   |
| 100       | 9.8   | 0.0   | 28.7   |

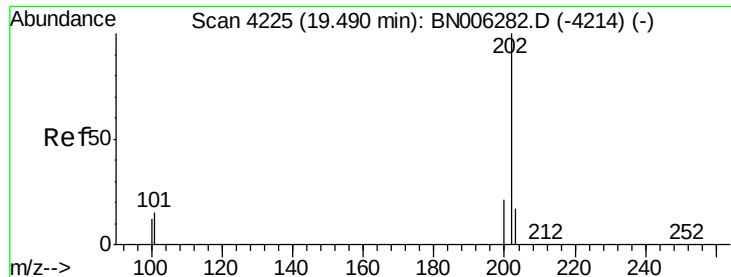
Abundance

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





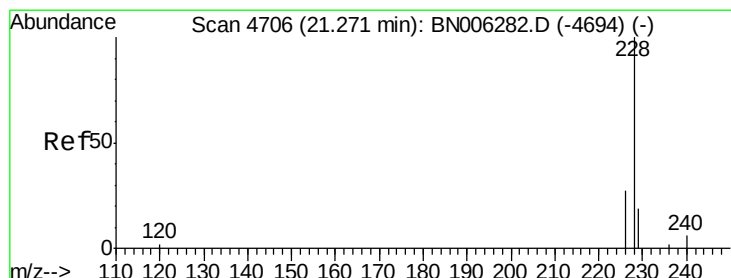
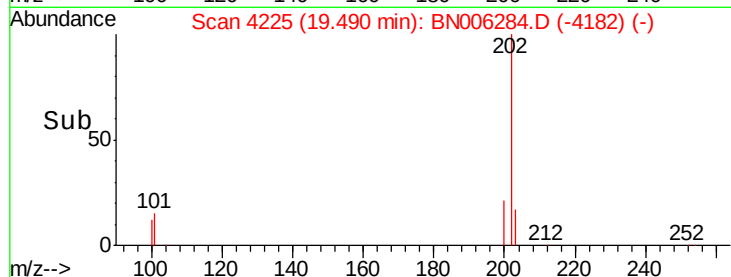
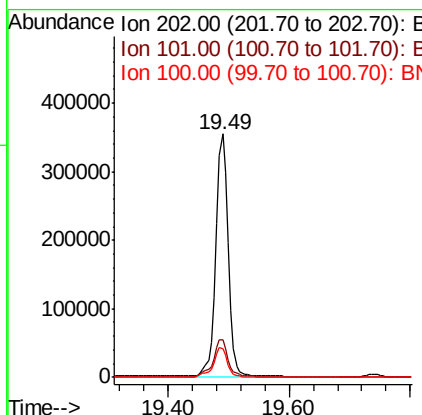
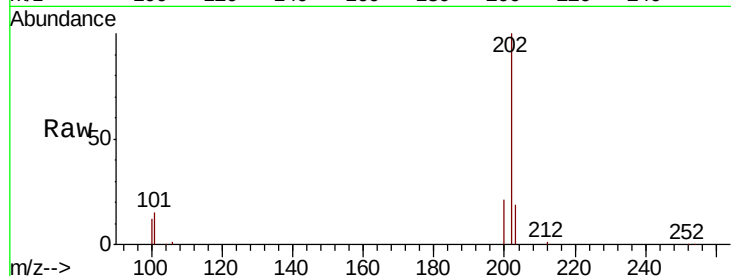
#17  
Pvrene  
Concen: 7.718 ng/ul  
RT: 19.49 min Scan# 4225  
Delta R.T. -0.00 min  
Lab File: BN006284.D  
Acq: 12 Jun 2019 17:18

Instrument :  
BNA\_N  
ClientSampleId :  
A51F6DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 504345 |       |       |
| 101     | 15.2  |        | 12.2  | 18.2  |
| 100     | 11.9  |        | 9.8   | 14.6  |

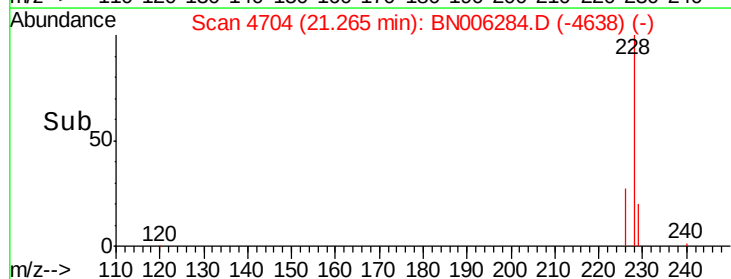
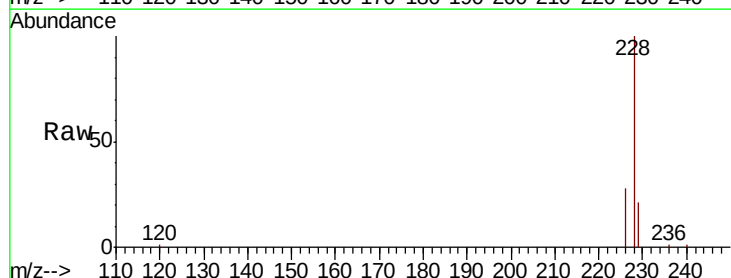
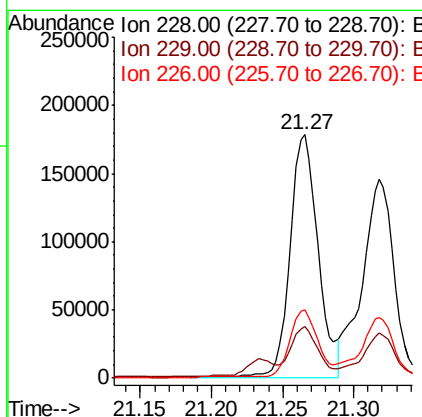
Manual Integrations  
APPROVED

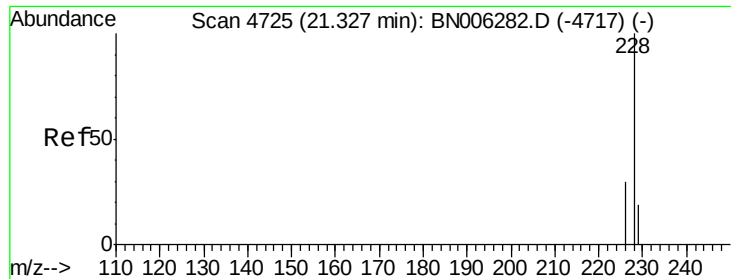
mohammad  
6/14/2019 8:33:56 AM



#18  
Benzo(a)anthracene  
Concen: 4.468 ng/ul m  
RT: 21.27 min Scan# 4704  
Delta R.T. -0.01 min  
Lab File: BN006284.D  
Acq: 12 Jun 2019 17:18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 245134 |       |       |
| 229     | 21.0  |        | 16.5  | 24.7  |
| 226     | 27.9  |        | 22.8  | 34.2  |





#19

Chrysene

Concen: 4.333 ng/ul

RT: 21.32 min Scan# 4722

Delta R.T. -0.01 min

Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

Instrument :

BNA\_N

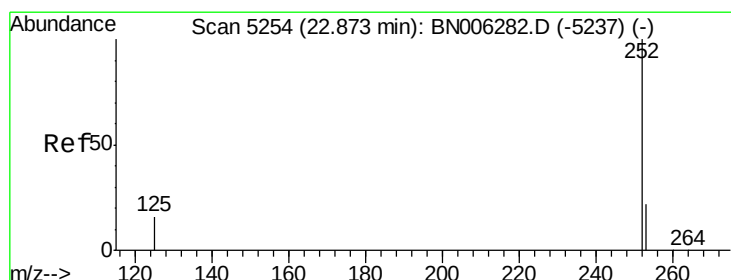
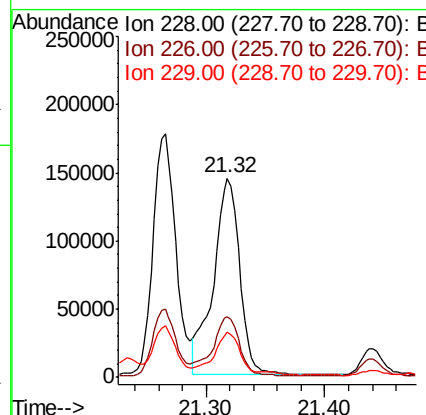
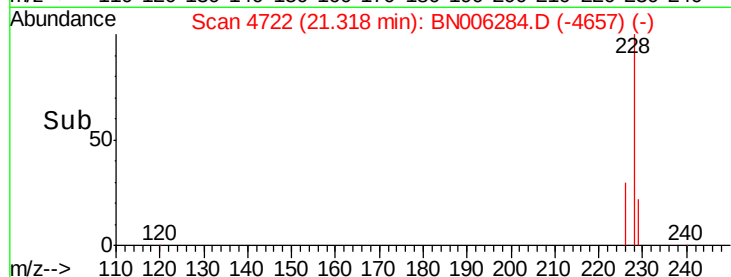
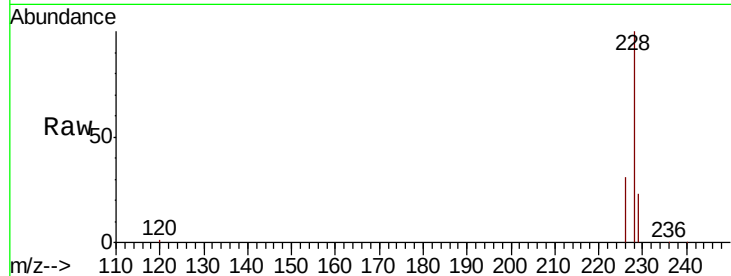
ClientSampleId :

A51F6DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 223216 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.7  | 25.0  | 37.6   |
| 229       | 22.6  | 16.3  | 24.5   |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:33:56 AM



#21

Benzo(b)fluoranthene

Concen: 3.691 ng/ul m

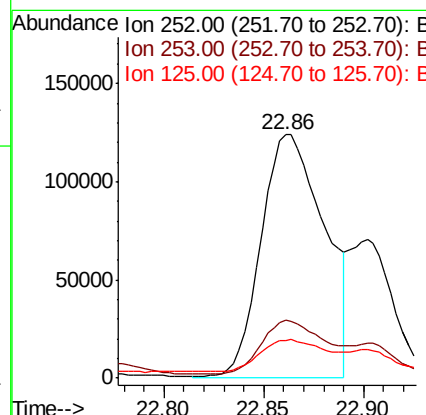
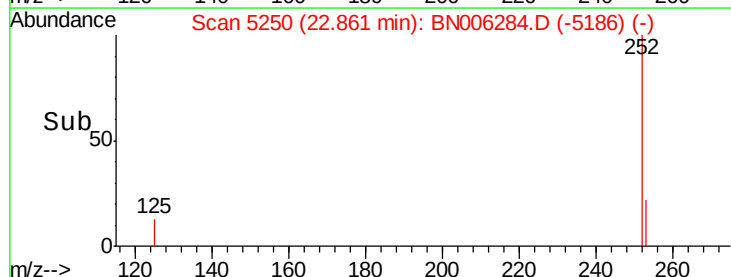
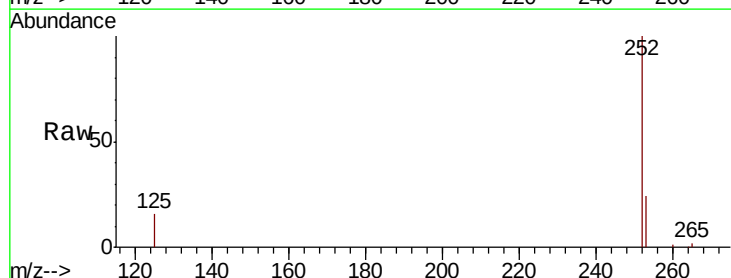
RT: 22.86 min Scan# 5250

Delta R.T. -0.01 min

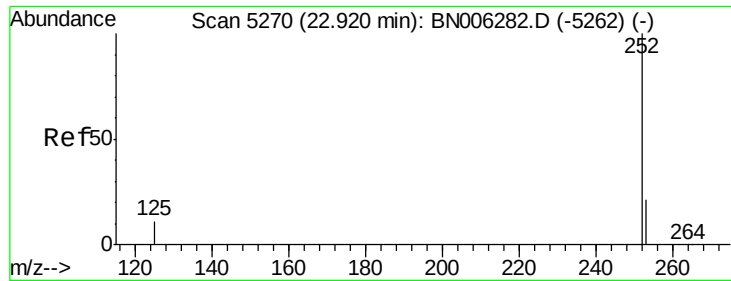
Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 273614 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.6  | 0.0   | 51.4   |
| 125       | 15.6  | 0.0   | 41.0   |







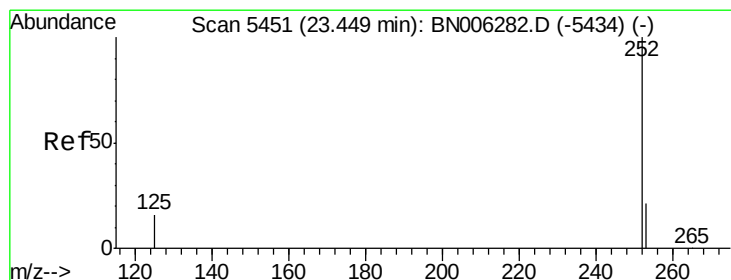
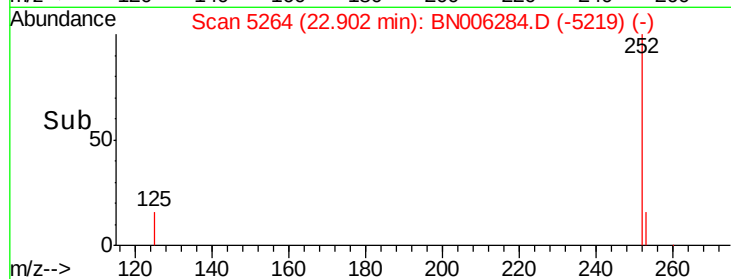
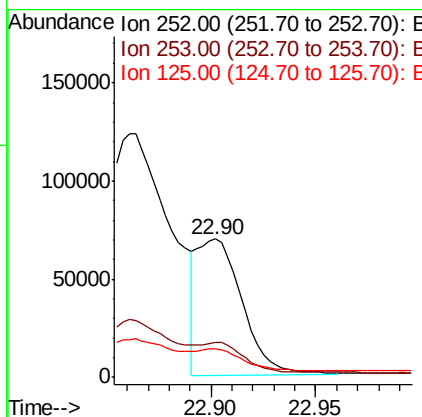
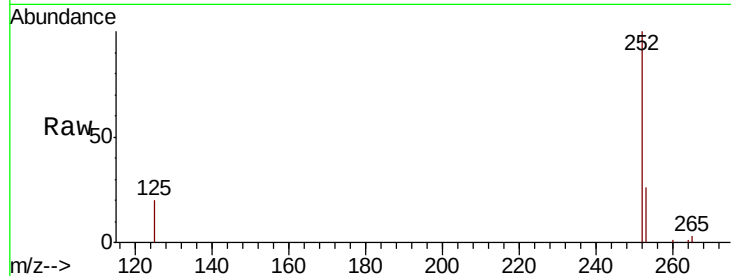
#22  
Benzo(k)fluoranthene  
Concen: 1.454 ng/ul m  
RT: 22.90 min Scan# 5264  
Delta R.T. -0.02 min  
Lab File: BN006284.D  
Acq: 12 Jun 2019 17:18

Instrument :  
BNA\_N  
ClientSampleId :  
A51F6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.5  | 20.3  | 30.5  |
| 125     | 20.5  | 14.3  | 21.5  |

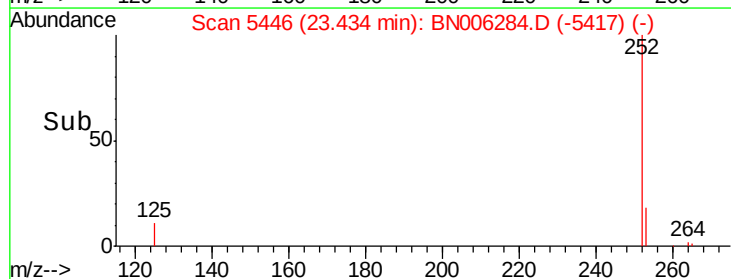
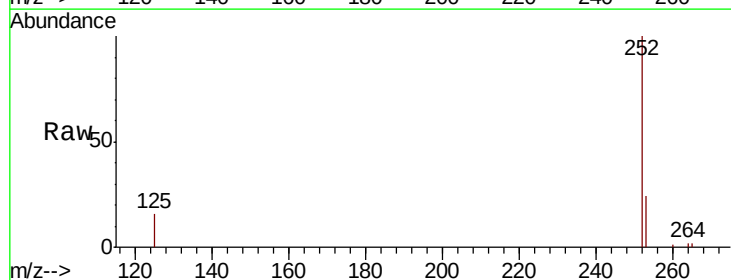
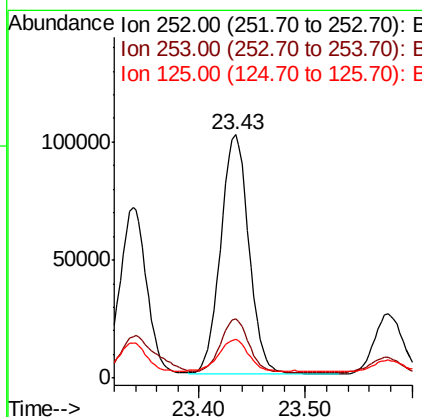
Manual Integrations  
APPROVED

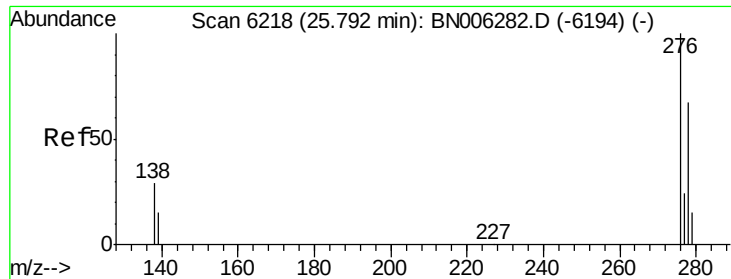
mohammad  
6/14/2019 8:33:56 AM



#23  
Benzo(a)pyrene  
Concen: 2.731 ng/ul  
RT: 23.43 min Scan# 5446  
Delta R.T. -0.01 min  
Lab File: BN006284.D  
Acq: 12 Jun 2019 17:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 21.1  | 31.7  |
| 125     | 15.9  | 20.3  | 30.5# |





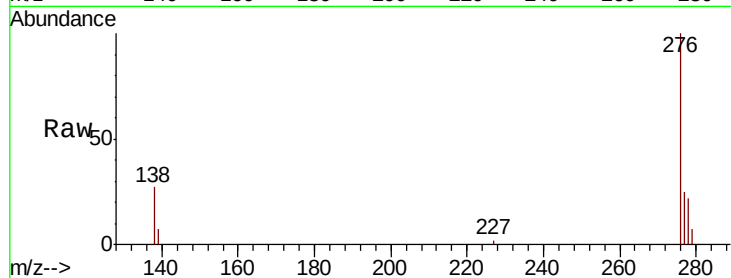
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.670 ng/ul  
 RT: 25.77 min Scan# 6211  
 Delta R.T. -0.02 min  
 Lab File: BN006284.D  
 Acq: 12 Jun 2019 17:18

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A51F6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.8  | 25.6  | 38.4  |
| 227     | 0.1   | 0.3   | 0.5#  |

Manual Integrations  
 APPROVED

mohammad  
 6/14/2019 8:33:56 AM

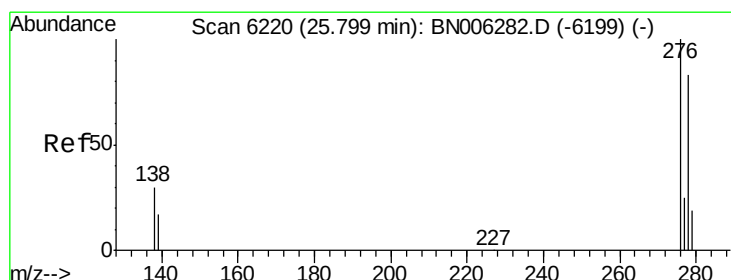
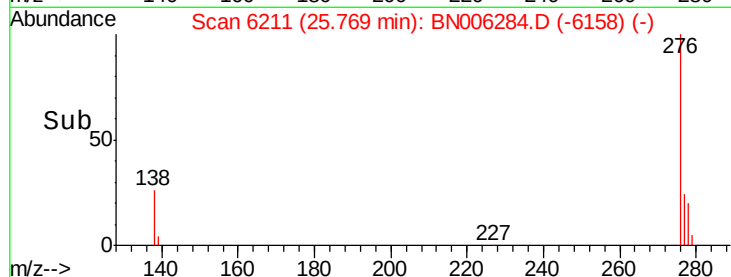
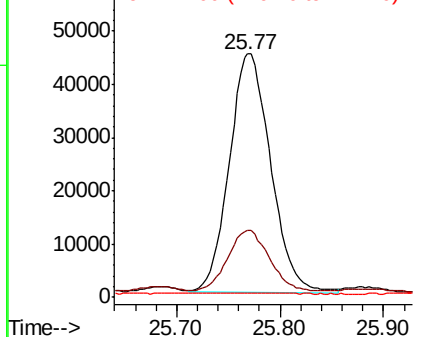


Abundance

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: 0.535 ng/ul  
 RT: 25.78 min Scan# 6213  
 Delta R.T. -0.02 min  
 Lab File: BN006284.D  
 Acq: 12 Jun 2019 17:18

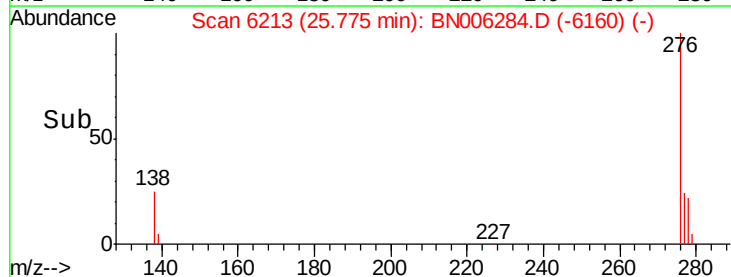
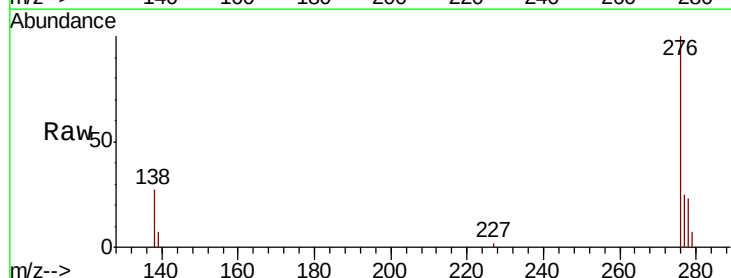
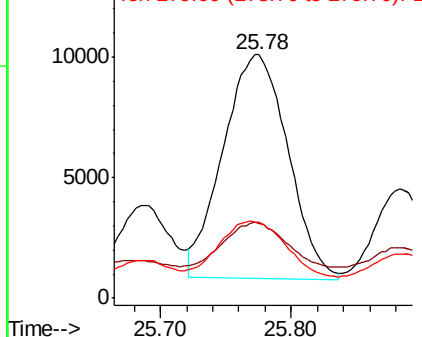
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 30.6  | 21.2  | 31.8  |
| 279     | 31.2  | 22.6  | 33.8  |

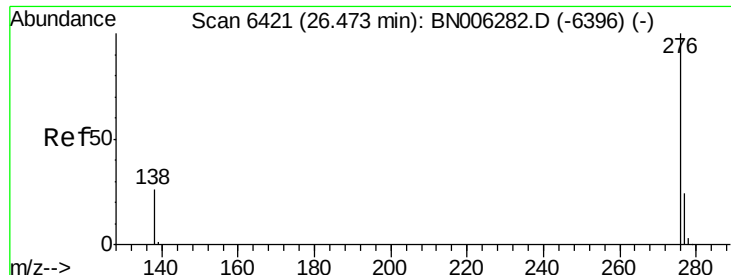
Abundance

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: 1.786 ng/ul

RT: 26.46 min Scan# 6417

Delta R.T. -0.01 min

Lab File: BN006284.D

Acq: 12 Jun 2019 17:18

Instrument :

BNA\_N

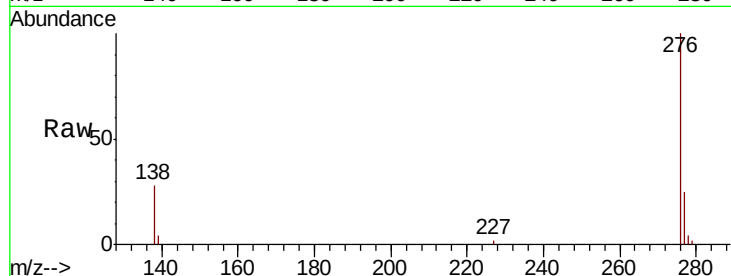
ClientSampleId :

A51F6DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 111801 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 28.1  | 24.2  | 36.4   |
| 277       | 25.2  | 21.5  | 32.3   |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:33:56 AM



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

