

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM030920\  
 Data File : BM025419.D  
 Acq On : 09 Mar 2020 18:13  
 Operator : CG/JU  
 Sample : L1612-06  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBDK8

Manual Integrations  
 APPROVED

mohammad  
 3/10/2020 7:59:02 AM

Quant Time: Mar 09 18:46:05 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM030920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 09 13:32:56 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.67  | 152  | 3315     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.43 | 136  | 14154    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.29 | 164  | 10166    | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.04 | 188  | 23475    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.22 | 240  | 18795    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.41 | 264  | 17080    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.03 | 152  | 4667     | 0.18   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.06 | 212  | 12419    | 0.19   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 12) Phenanthrene            | 17.07 | 178  | 3627     | 0.049  | ng/ul  | 95       |
| 13) Anthracene              | 17.17 | 178  | 4476     | 0.069  | ng/ul  | 98       |
| 15) Fluoranthene            | 19.09 | 202  | 4295     | 0.053  | ng/ul  | 95       |
| 17) Pyrene                  | 19.46 | 202  | 5975     | 0.071  | ng/ul# | 96       |
| 18) Benzo(a)anthracene      | 21.20 | 228  | 4228     | 0.063  | ng/ul  | 94       |
| 19) Chrysene                | 21.26 | 228  | 3929     | 0.052  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.76 | 252  | 15020m   | 0.222  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.80 | 252  | 6608m    | 0.093  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.31 | 252  | 4821     | 0.086  | ng/ul# | 82       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.58 | 276  | 4409     | 0.058  | ng/ul# | 97       |
| 25) Dibenzo(a,h)anthracene  | 25.59 | 278  | 1312     | 0.020  | ng/ul# | 47       |
| 26) Benzo(g,h,i)perylene    | 26.25 | 276  | 2077     | 0.031  | ng/ul# | 80       |

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

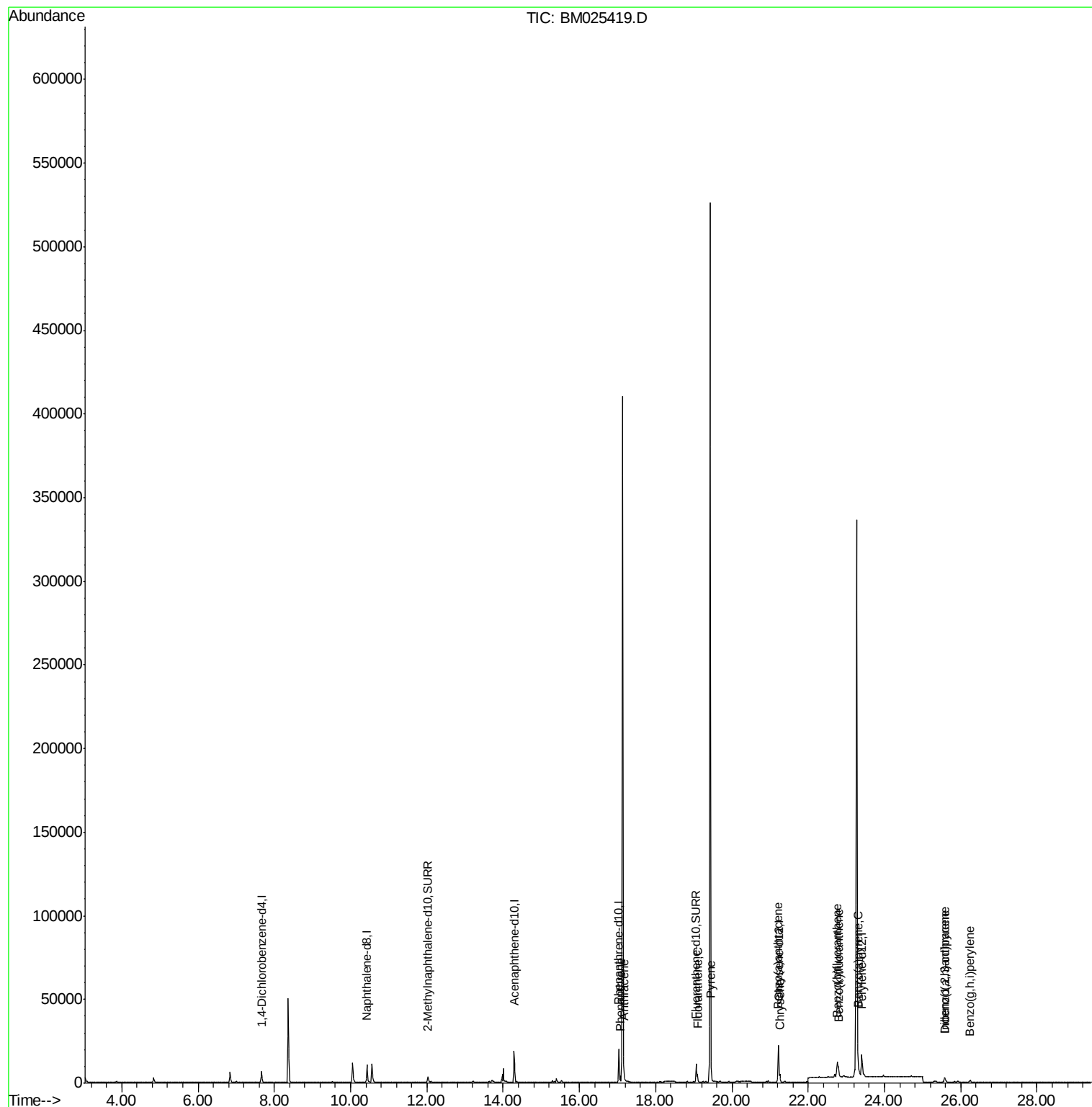
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM030920\  
Data File : BM025419.D  
Acq On : 09 Mar 2020 18:13  
Operator : CG/JU  
Sample : L1612-06  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

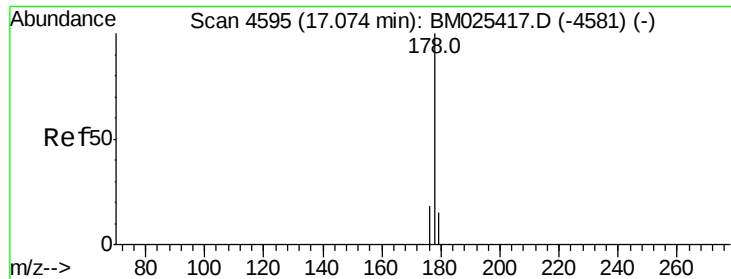
Instrument :  
BNA\_M  
ClientSampleId :  
DBDK8

Manual Integrations  
APPROVED

mohammad  
3/10/2020 7:59:02 AM

Quant Time: Mar 09 18:46:05 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM030920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 09 13:32:56 2020  
Response via : Initial Calibration





#12

Phenanthrene

Concen: 0.049 ng/ul

RT: 17.07 min Scan# 4595

Delta R.T. -0.00 min

Lab File: BM025419.D

Acq: 09 Mar 2020 18:13

Instrument :

BNA\_M

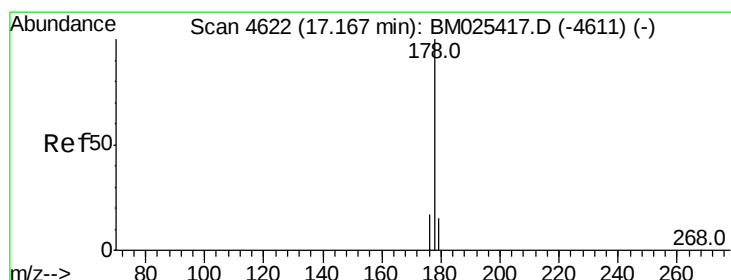
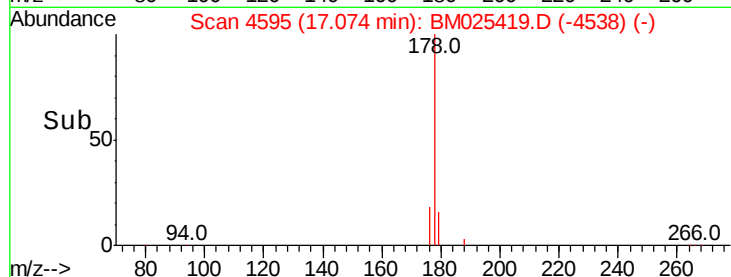
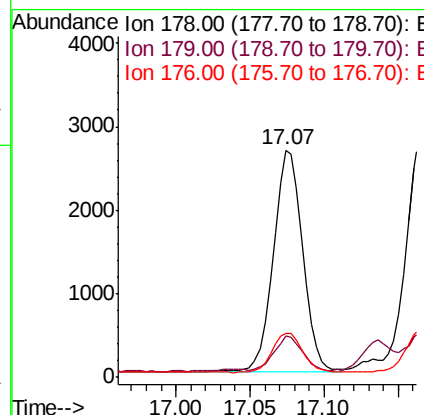
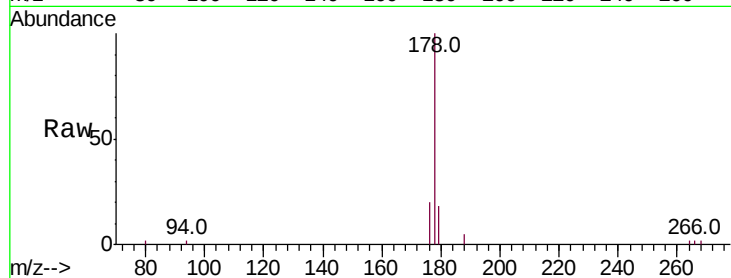
ClientSampleId :

DBDK8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.5  | 12.4  | 18.6  |
| 176     | 19.6  | 14.8  | 22.2  |

Manual Integrations  
APPROVED

mohammad  
3/10/2020 7:59:02 AM



#13

Anthracene

Concen: 0.069 ng/ul

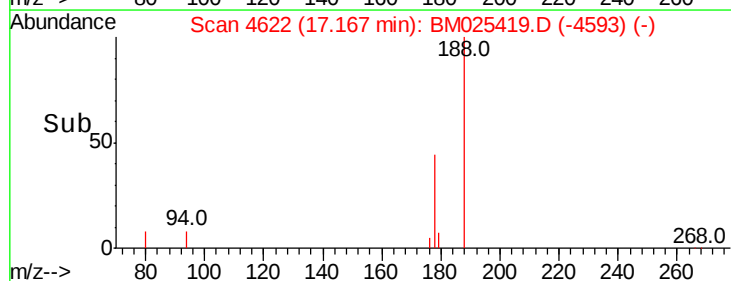
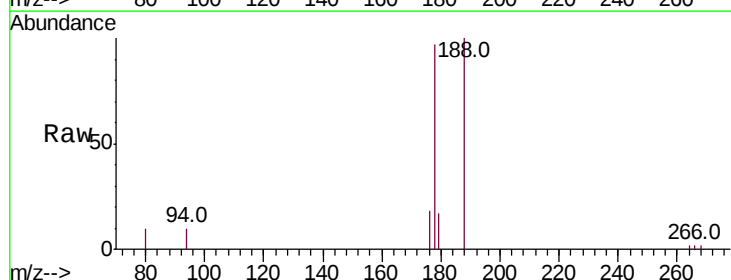
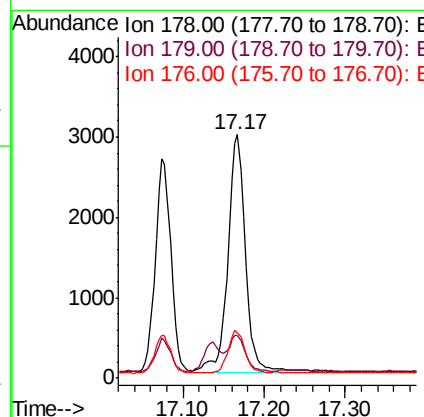
RT: 17.17 min Scan# 4622

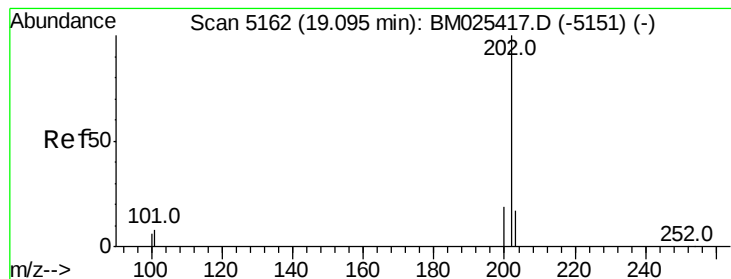
Delta R.T. 0.00 min

Lab File: BM025419.D

Acq: 09 Mar 2020 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.4  | 12.6  | 18.8  |
| 176     | 18.4  | 14.5  | 21.7  |





#15

Fluoranthene

Concen: 0.053 ng/ul

RT: 19.09 min Scan# 5162

Delta R.T. 0.00 min

Lab File: BM025419.D

Acq: 09 Mar 2020 18:13

Instrument :

BNA\_M

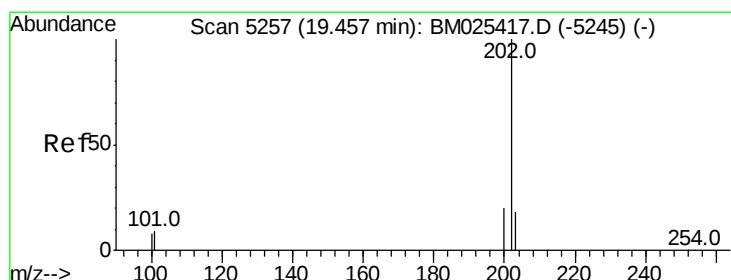
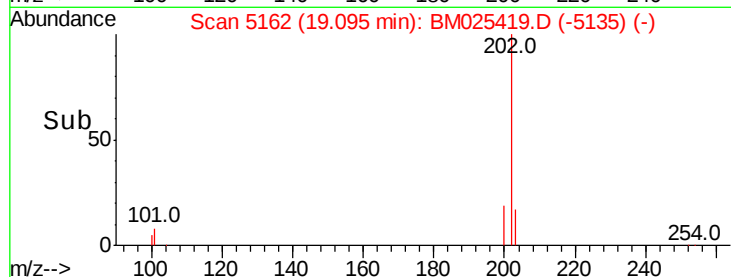
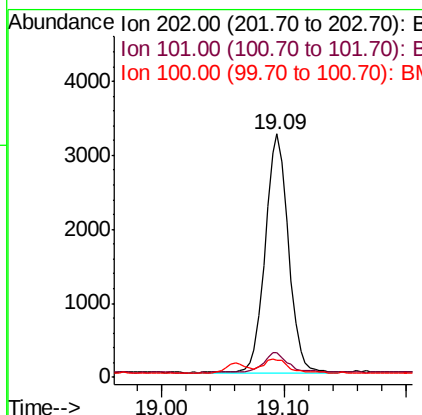
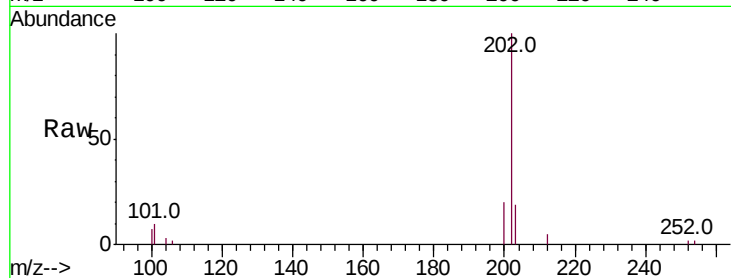
ClientSampleId :

DBDK8

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 202   | Resp: | 4295 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 10.0  | 0.0   | 27.5 |
| 100       | 7.2   | 0.0   | 26.0 |

Manual Integrations  
APPROVED

mohammad  
3/10/2020 7:59:02 AM



#17

Pyrene

Concen: 0.071 ng/ul

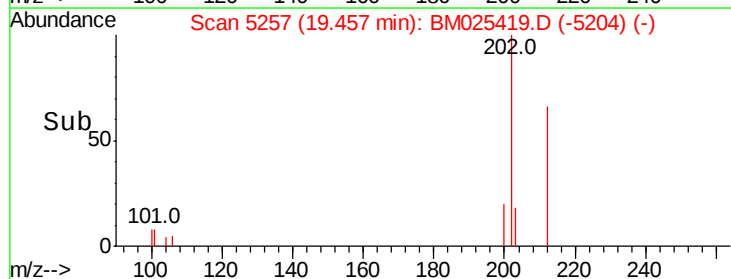
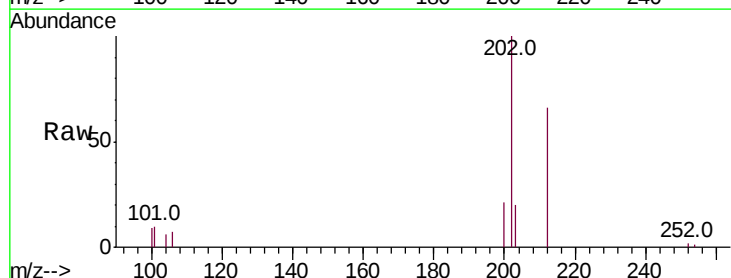
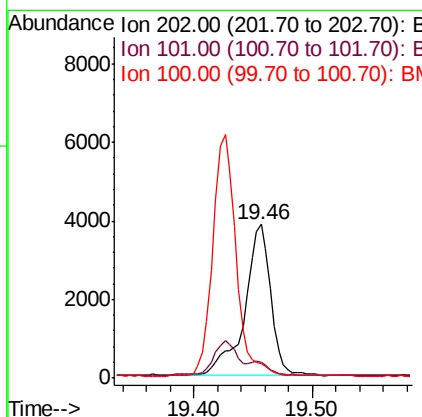
RT: 19.46 min Scan# 5257

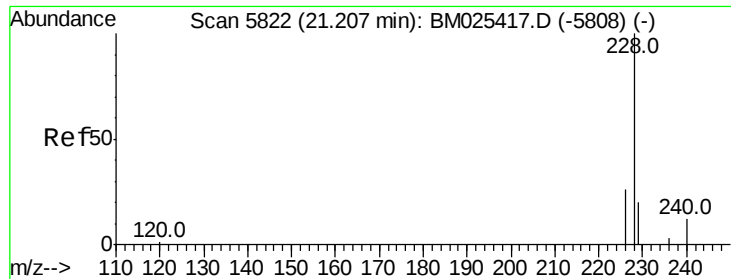
Delta R.T. 0.00 min

Lab File: BM025419.D

Acq: 09 Mar 2020 18:13

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 5975 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 10.3  | 7.1   | 10.7 |
| 100       | 9.2   | 6.0   | 9.0# |





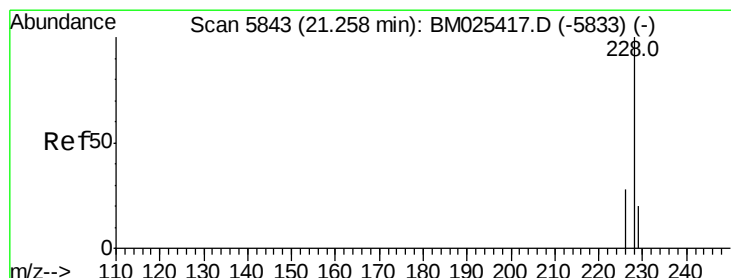
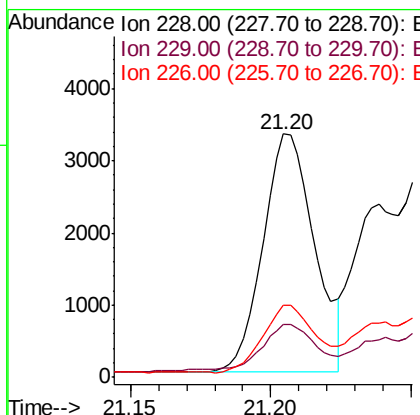
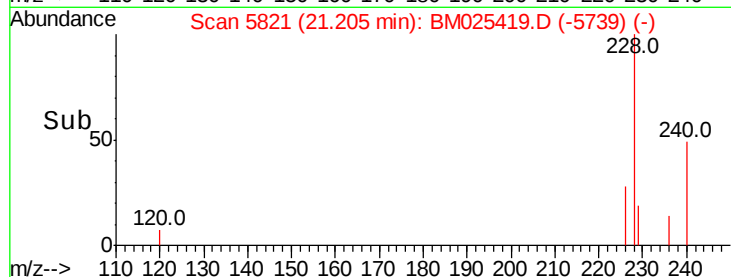
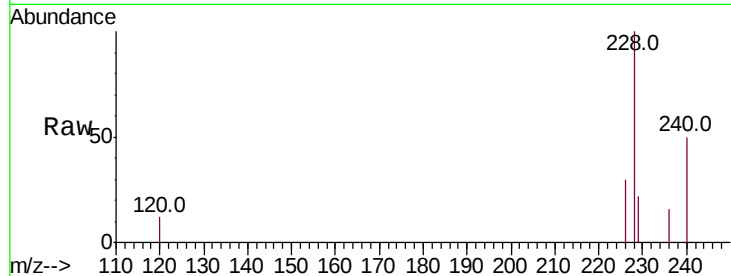
#18  
Benzo(a)anthracene  
Concen: 0.063 ng/u1  
RT: 21.20 min Scan# 5821  
Delta R.T. -0.00 min  
Lab File: BM025419.D  
Acq: 09 Mar 2020 18:13

Instrument :  
BNA\_M  
ClientSampleId :  
DBDK8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.8  | 15.6  | 23.4  |
| 226     | 29.8  | 21.1  | 31.7  |

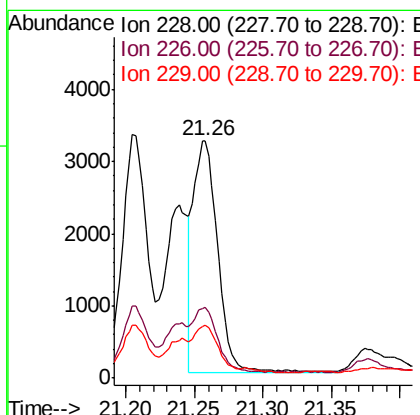
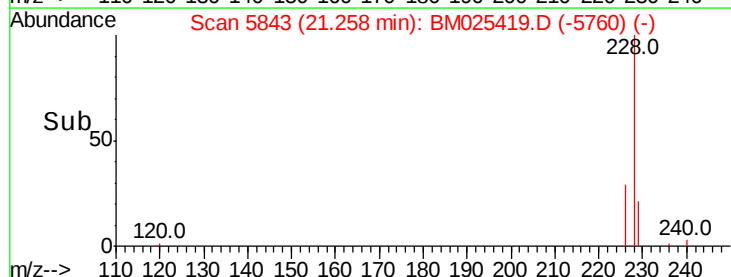
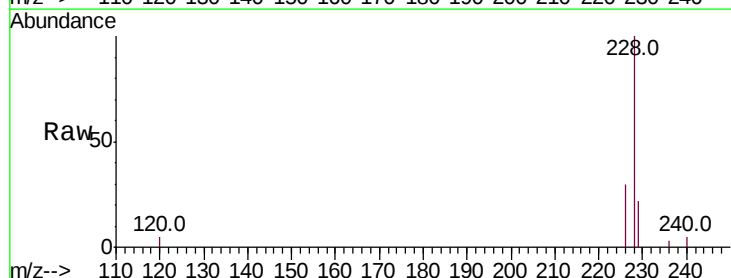
Manual Integrations  
APPROVED

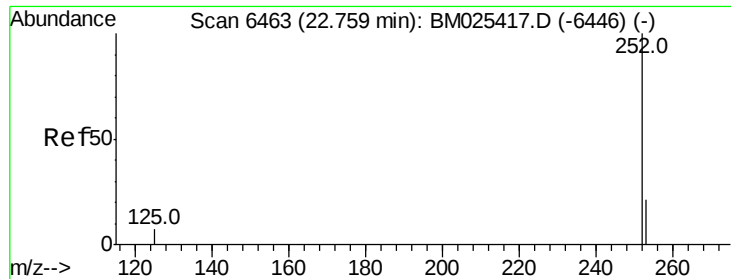
mohammad  
3/10/2020 7:59:02 AM



#19  
Chrysene  
Concen: 0.052 ng/u1  
RT: 21.26 min Scan# 5843  
Delta R.T. 0.00 min  
Lab File: BM025419.D  
Acq: 09 Mar 2020 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.9  | 23.6  | 35.4  |
| 229     | 22.4  | 16.3  | 24.5  |





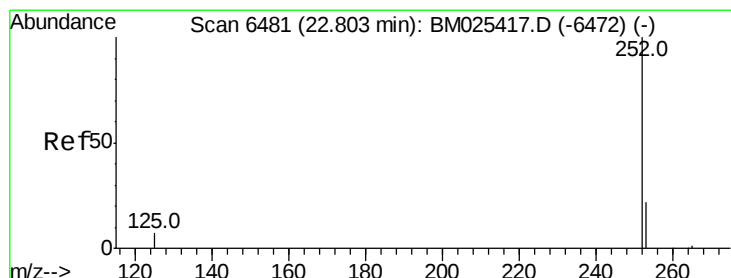
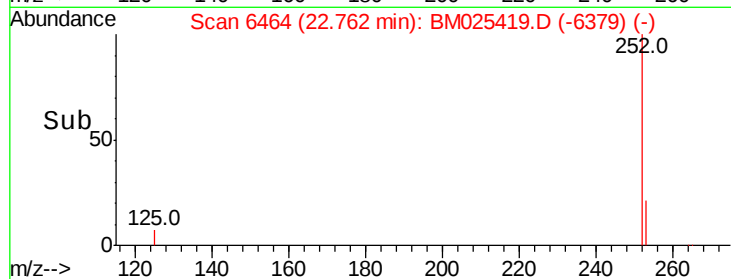
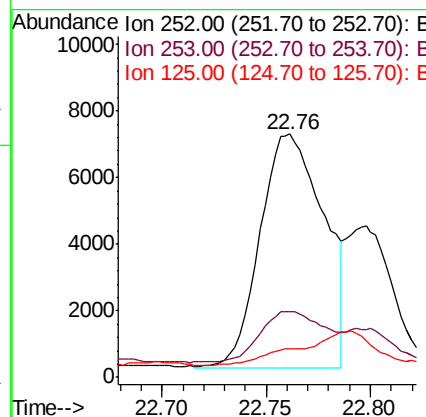
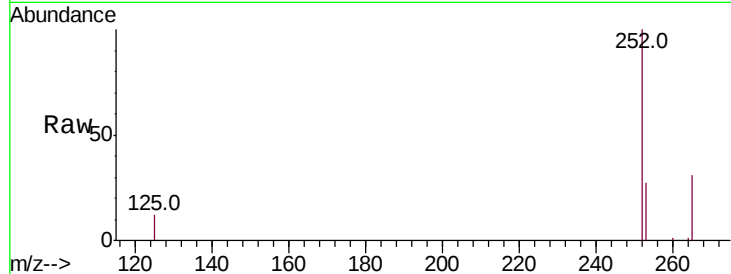
#21  
Benzo(b)fluoranthene  
Concen: 0.222 ng/ul m  
RT: 22.76 min Scan# 6464  
Delta R.T. 0.01 min  
Lab File: BM025419.D  
Acq: 09 Mar 2020 18:13

Instrument :  
BNA\_M  
ClientSampleId :  
DBDK8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.0  | 0.0   | 50.2  |
| 125     | 11.9  | 0.0   | 17.6  |

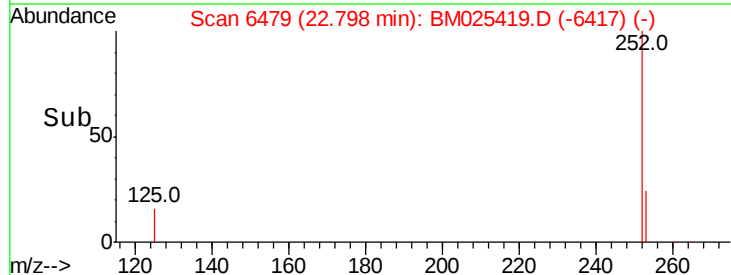
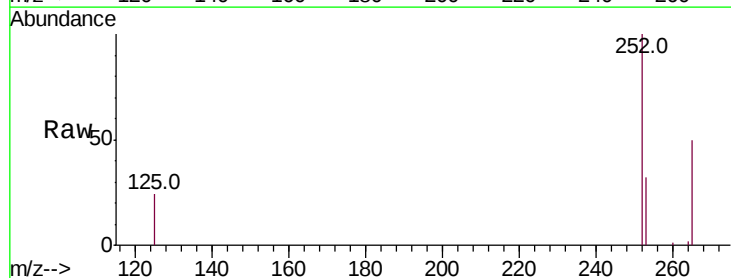
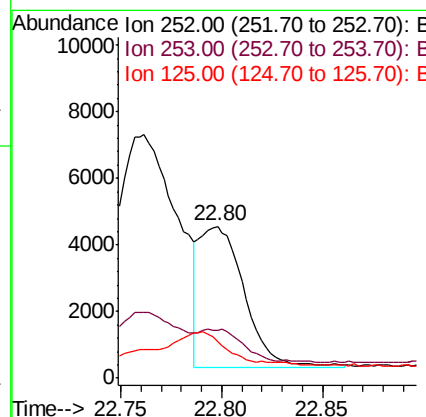
Manual Integrations  
APPROVED

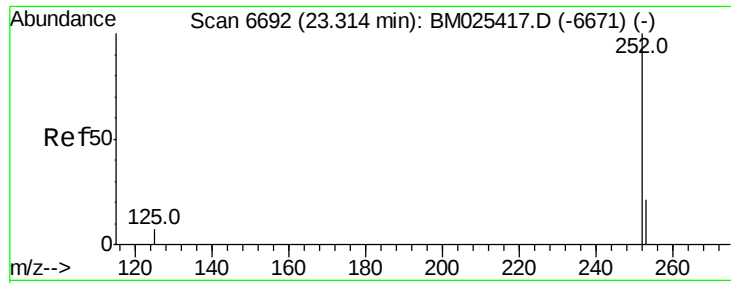
mohammad  
3/10/2020 7:59:02 AM



#22  
Benzo(k)fluoranthene  
Concen: 0.093 ng/ul m  
RT: 22.80 min Scan# 6479  
Delta R.T. -0.00 min  
Lab File: BM025419.D  
Acq: 09 Mar 2020 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 31.8  | 19.8  | 29.8# |
| 125     | 23.5  | 7.1   | 10.7# |





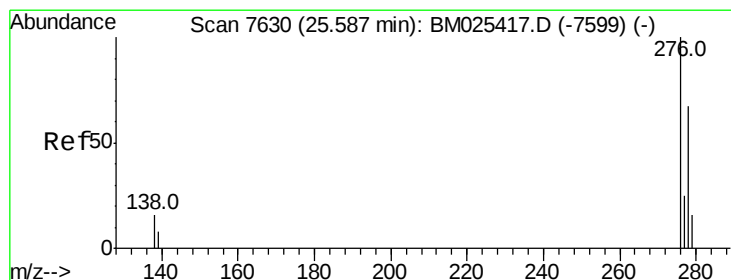
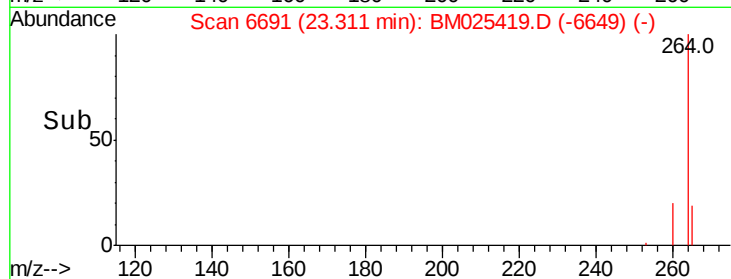
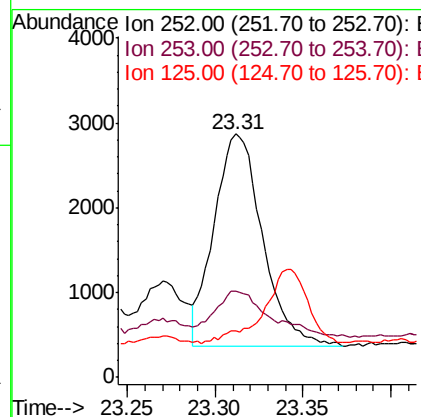
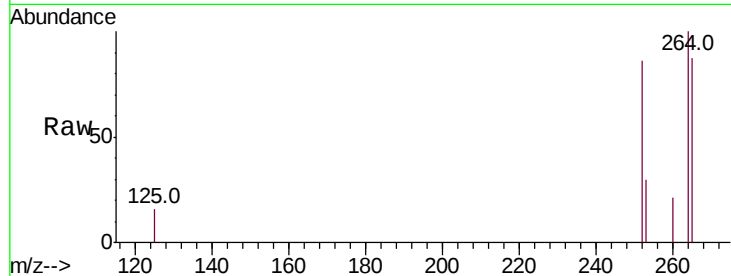
#23  
Benzo(a)pyrene  
Concen: 0.086 ng/ul  
RT: 23.31 min Scan# 6691  
Delta R.T. 0.00 min  
Lab File: BM025419.D  
Acq: 09 Mar 2020 18:13

Instrument :  
BNA\_M  
ClientSampleId :  
DBDK8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 35.3  | 21.3  | 31.9# |
| 125     | 18.9  | 8.5   | 12.7# |

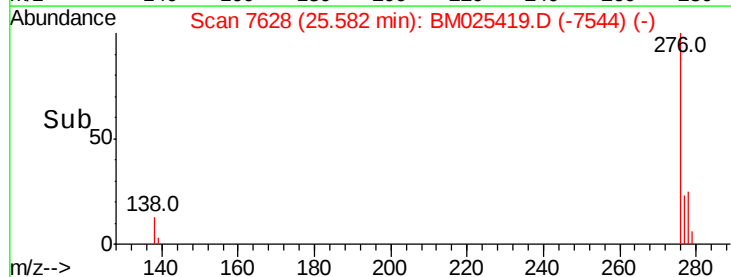
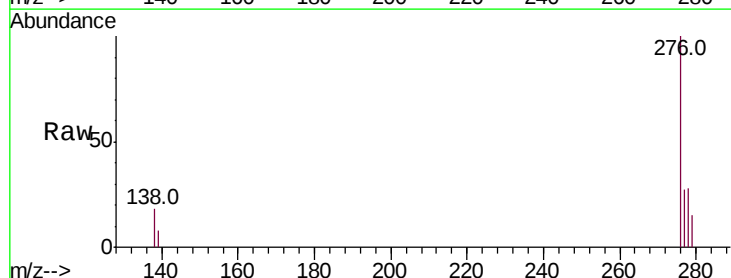
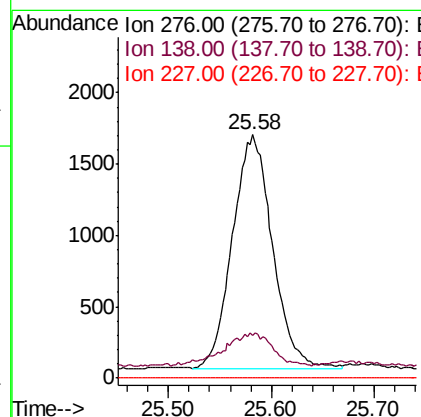
Manual Integrations  
APPROVED

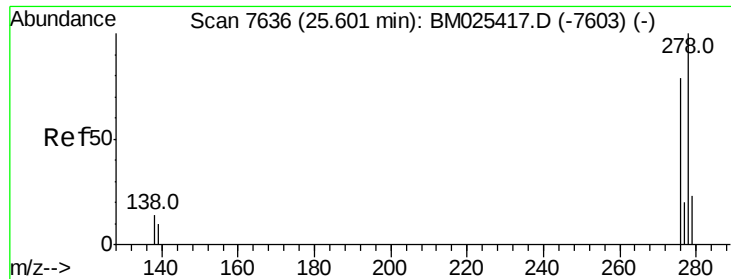
mohammad  
3/10/2020 7:59:02 AM



#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.058 ng/ul  
RT: 25.58 min Scan# 7628  
Delta R.T. 0.00 min  
Lab File: BM025419.D  
Acq: 09 Mar 2020 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.9  | 12.3  | 18.5  |
| 227     | 0.0   | 0.0   | 0.0   |





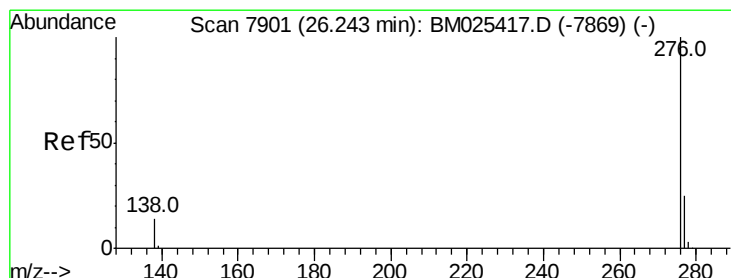
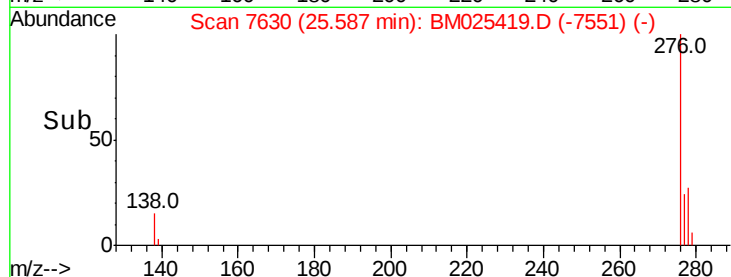
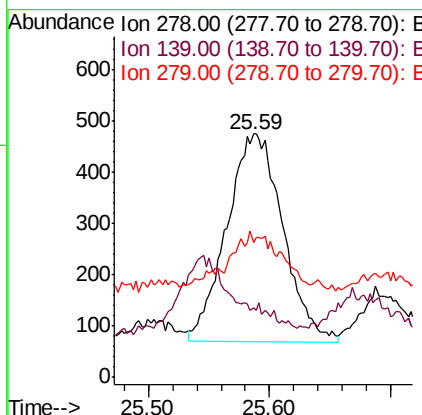
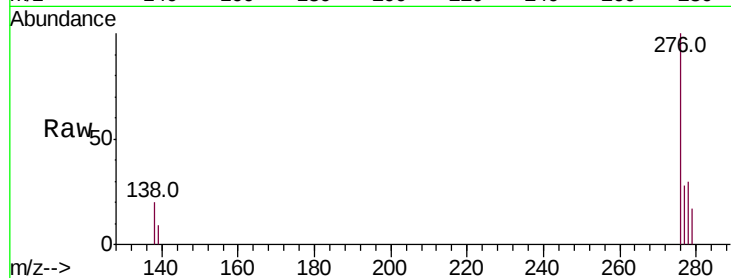
#25  
Dibenzo(a,h)anthracene  
Concen: 0.020 ng/ul  
RT: 25.59 min Scan# 7630  
Delta R.T. -0.01 min  
Lab File: BM025419.D  
Acq: 09 Mar 2020 18:13

Instrument :  
BNA\_M  
ClientSampleId :  
DBDK8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 28.6  | 9.0   | 13.6# |
| 279     | 55.2  | 21.1  | 31.7# |

Manual Integrations  
APPROVED

mohammad  
3/10/2020 7:59:02 AM



#26  
Benzo(g,h,i)perylene  
Concen: 0.031 ng/ul  
RT: 26.25 min Scan# 7903  
Delta R.T. 0.01 min  
Lab File: BM025419.D  
Acq: 09 Mar 2020 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.7  | 11.0  | 16.4# |
| 277     | 32.8  | 19.8  | 29.6# |

