

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021721\  
 Data File : BM028772.D  
 Acq On : 17 Feb 2021 15:13  
 Operator : CG/JU  
 Sample : M1379-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBGY4

Manual Integrations  
 APPROVED

mohammad  
 2/18/2021 1:39:00 PM

Quant Time: Feb 17 15:50:32 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM020521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 17 11:34:13 2021  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.89  | 152  | 485      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.69 | 136  | 1962     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.53 | 164  | 1121     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.27 | 188  | 2146     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.43 | 240  | 2533     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.65 | 264  | 2094     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.28 | 152  | 536      | 0.19   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.29 | 212  | 1201     | 0.22   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.74 | 128  | 342      | 0.070  | ng/ul# | 62       |
| 5) 2-Methylnaphthalene      | 12.36 | 142  | 91       | 0.028  | ng/ul  | 99       |
| 8) Acenaphthene             | 14.60 | 153  | 159      | 0.044  | ng/ul# | 89       |
| 9) Fluorene                 | 15.58 | 166  | 361      | 0.090  | ng/ul# | 93       |
| 11) Pentachlorophenol       | 16.93 | 266  | 18       | 0.032  | ng/ul# | 81       |
| 12) Phenanthrene            | 17.31 | 178  | 4938     | 0.823  | ng/ul  | 96       |
| 13) Anthracene              | 17.40 | 178  | 621      | 0.109  | ng/ul# | 77       |
| 15) Fluoranthene            | 19.31 | 202  | 7903     | 1.157  | ng/ul  | 97       |
| 17) Pyrene                  | 19.68 | 202  | 7076     | 0.769  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.41 | 228  | 3274     | 0.379  | ng/ul  | 94       |
| 19) Chrysene                | 21.46 | 228  | 4205     | 0.489  | ng/ul  | 95       |
| 21) Benzo(b)fluoranthene    | 22.98 | 252  | 5444m    | 0.760  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.02 | 252  | 2103m    | 0.294  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.55 | 252  | 3174     | 0.497  | ng/ul# | 92       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.90 | 276  | 2614     | 0.314  | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.90 | 278  | 750      | 0.108  | ng/ul# | 50       |
| 26) Benzo(a,h,i)perylene    | 26.59 | 276  | 2390     | 0.345  | ng/ul  | 99       |

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

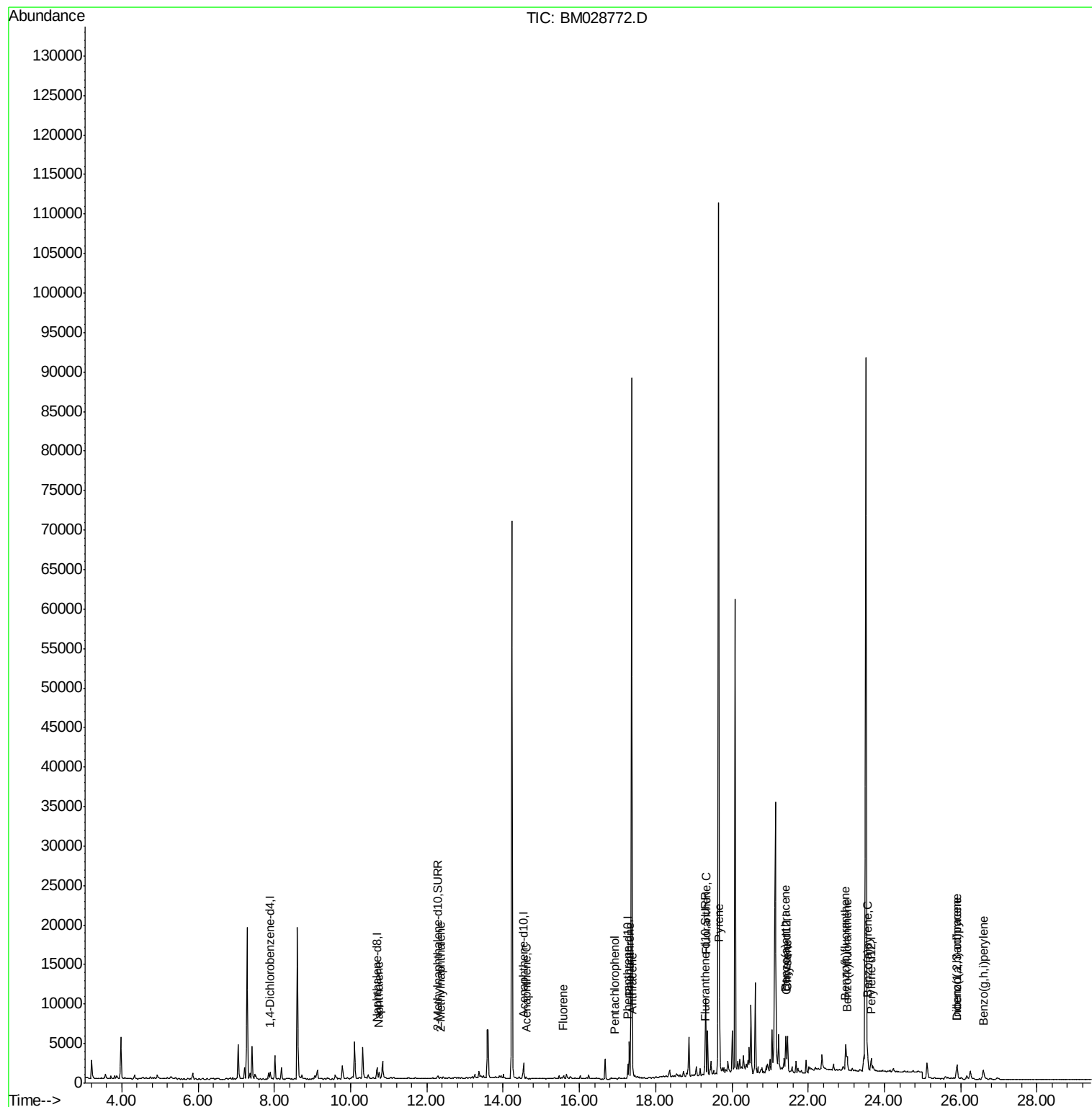
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021721\  
Data File : BM028772.D  
Acq On : 17 Feb 2021 15:13  
Operator : CG/JU  
Sample : M1379-04  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

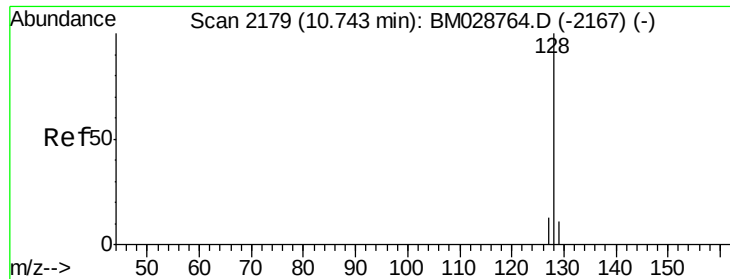
Instrument :  
BNA\_M  
ClientSampleId :  
DBGY4

Manual Integrations  
APPROVED

mohammad  
2/18/2021 1:39:00 PM

Quant Time: Feb 17 15:50:32 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM020521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 17 11:34:13 2021  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.070 ng/ul

RT: 10.74 min Scan# 2178

Delta R.T. -0.00 min

Lab File: BM028772.D

Acq: 17 Feb 2021 15:13

Instrument :

BNA\_M

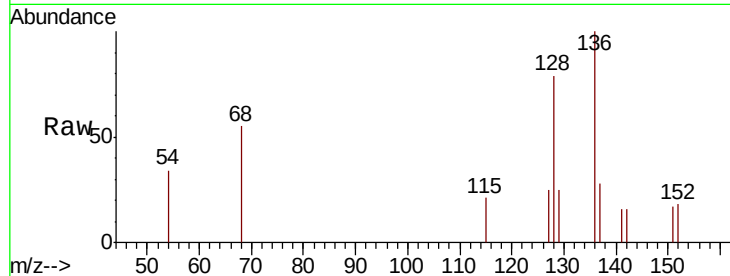
ClientSampleId :

DBGY4

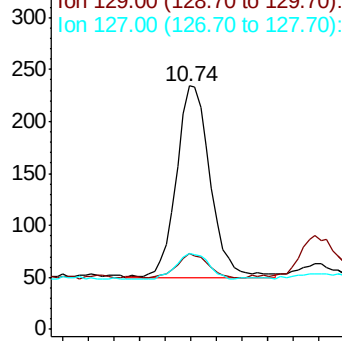
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 342   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 31.2  | 11.4  | 17.2# |
| 127       | 31.2  | 13.0  | 19.6# |

Manual Integrations  
APPROVED

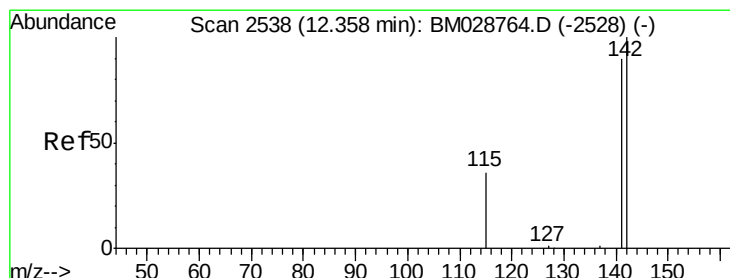
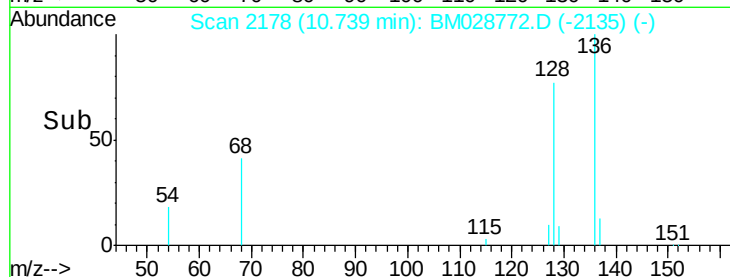
mohammad  
2/18/2021 1:39:00 PM



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



Time-->



#5

2-Methylnaphthalene

Concen: 0.028 ng/ul

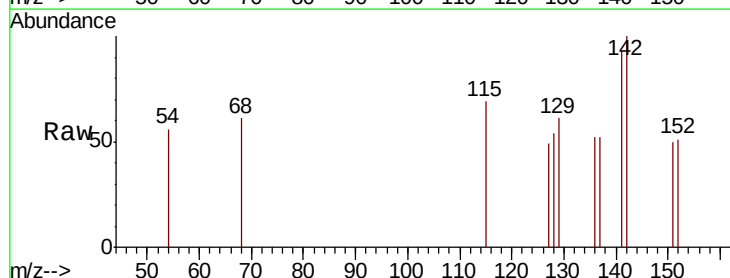
RT: 12.36 min Scan# 2539

Delta R.T. 0.00 min

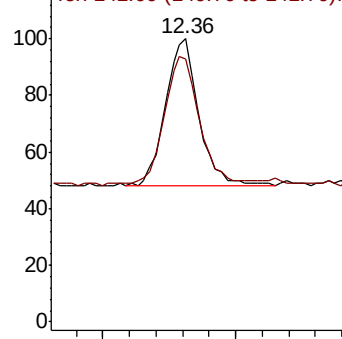
Lab File: BM028772.D

Acq: 17 Feb 2021 15:13

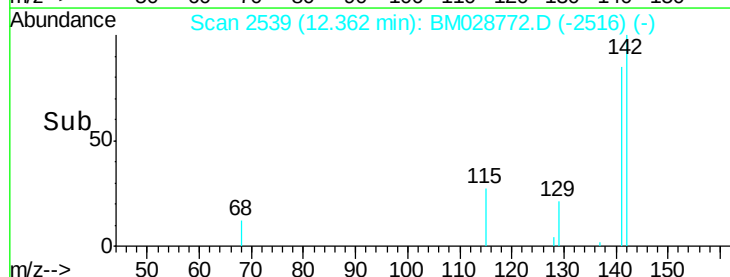
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 91    |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 89.0  | 72.2  | 108.4 |

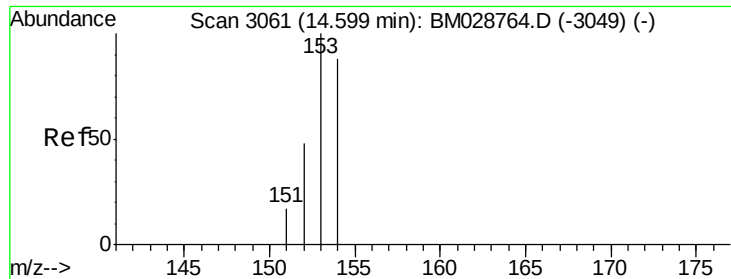


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E



Time-->





#8

Acenaphthene

Concen: 0.044 ng/ul

RT: 14.60 min Scan# 3061

Delta R.T. -0.00 min

Lab File: BM028772.D

Acq: 17 Feb 2021 15:13

Instrument :

BNA\_M

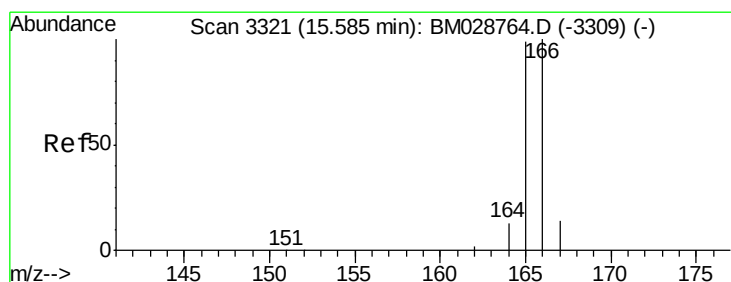
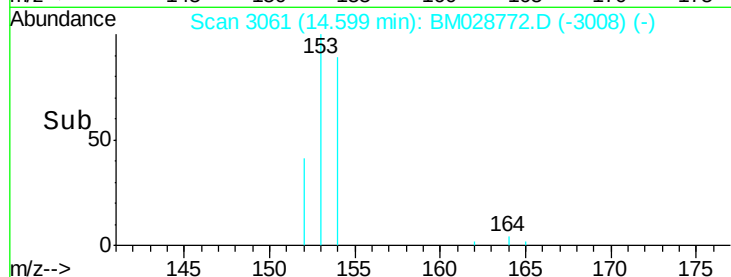
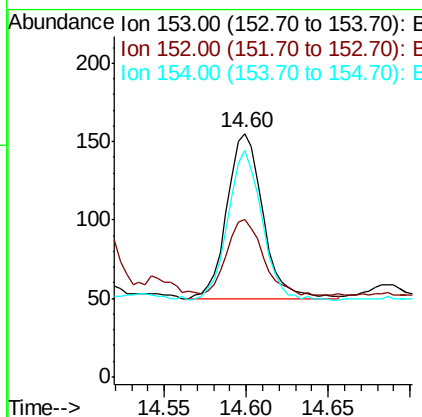
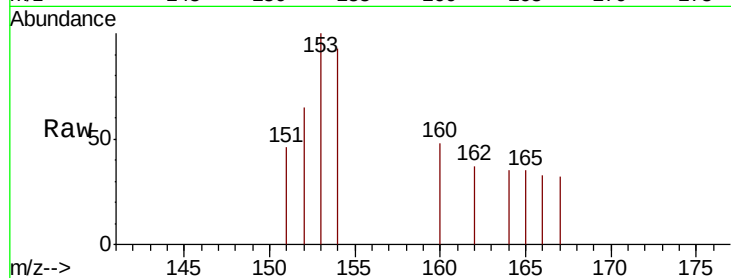
ClientSampleId :

DBGY4

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 153   | Resp: | 159   |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 64.5  | 39.6  | 59.4# |
| 154      | 92.9  | 70.3  | 105.5 |

Manual Integrations  
APPROVED

mohammad  
2/18/2021 1:39:00 PM



#9

Fluorene

Concen: 0.090 ng/ul

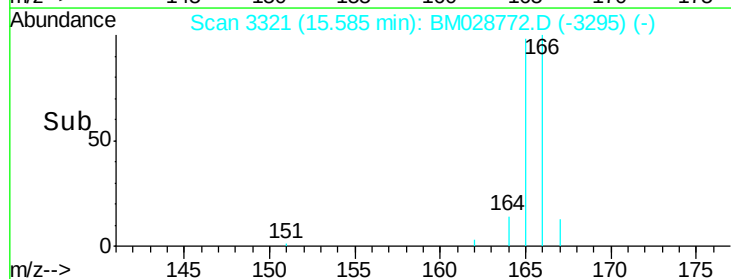
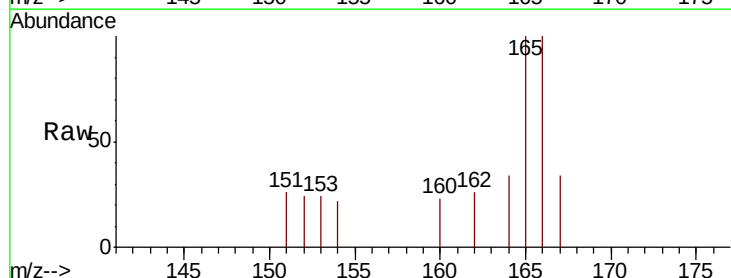
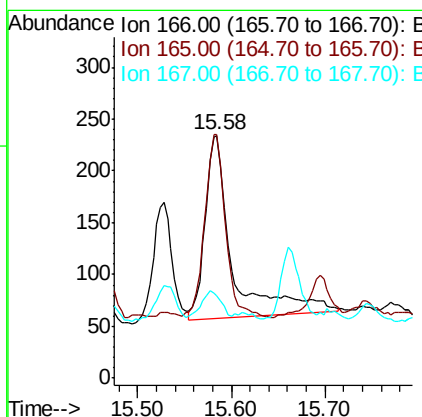
RT: 15.58 min Scan# 3321

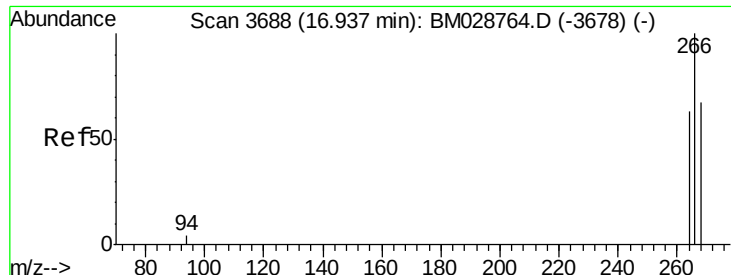
Delta R.T. -0.00 min

Lab File: BM028772.D

Acq: 17 Feb 2021 15:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 361   |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 100.4 | 79.6  | 119.4 |
| 167      | 34.2  | 13.9  | 20.9# |





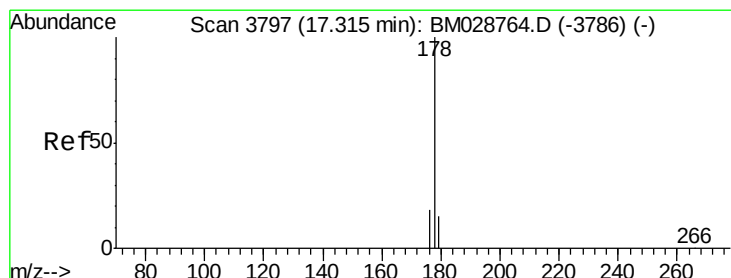
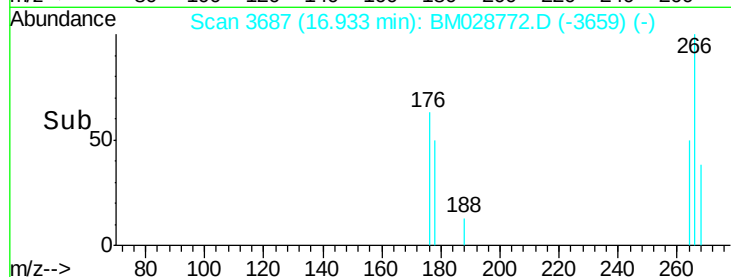
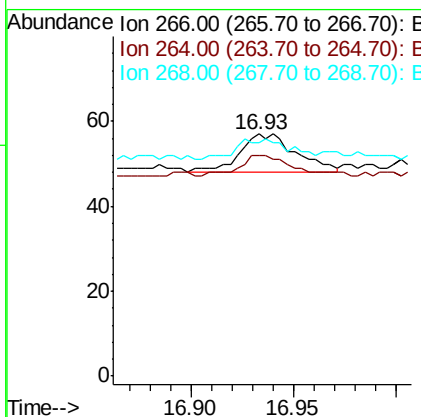
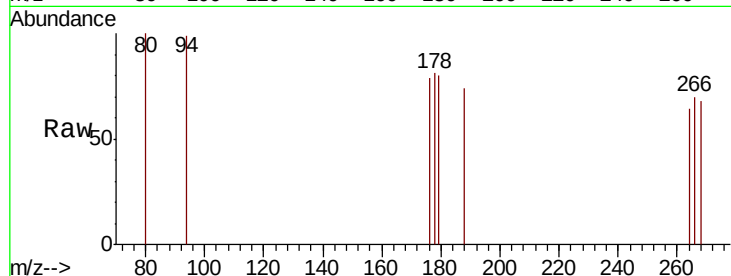
#11  
 Pentachlorophenol  
 Concen: 0.032 ng/ul  
 RT: 16.93 min Scan# 3687  
 Delta R.T. -0.00 min  
 Lab File: BM028772.D  
 Acq: 17 Feb 2021 15:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBGY4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 266   | Resp: | 18    |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 50.0  | 51.0  | 76.4# |
| 268       | 50.0  | 53.0  | 79.4# |

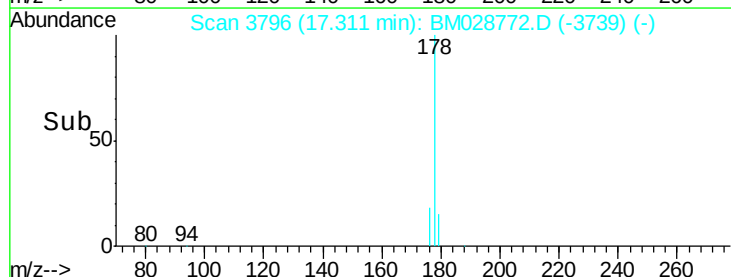
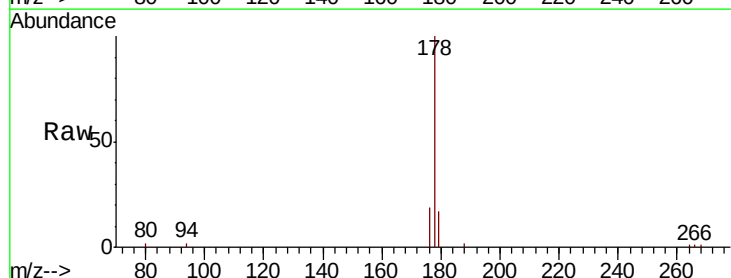
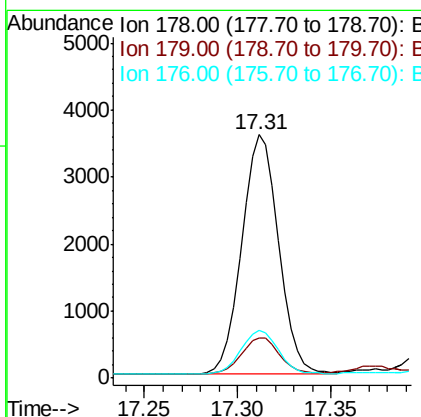
Manual Integrations  
 APPROVED

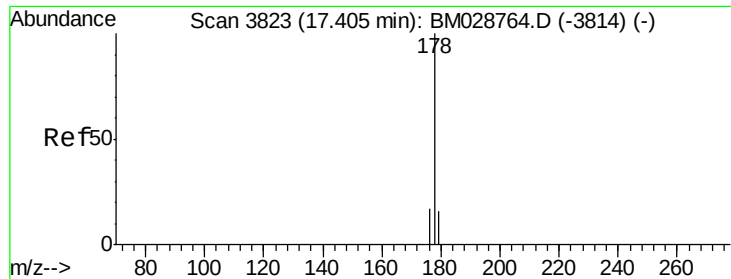
mohammad  
 2/18/2021 1:39:00 PM



#12  
 Phenanthrene  
 Concen: 0.823 ng/ul  
 RT: 17.31 min Scan# 3796  
 Delta R.T. -0.00 min  
 Lab File: BM028772.D  
 Acq: 17 Feb 2021 15:13

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 4938 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 16.6  | 14.7  | 22.1 |
| 176       | 19.5  | 16.7  | 25.1 |





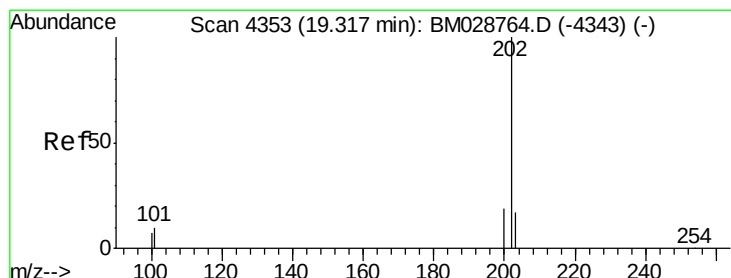
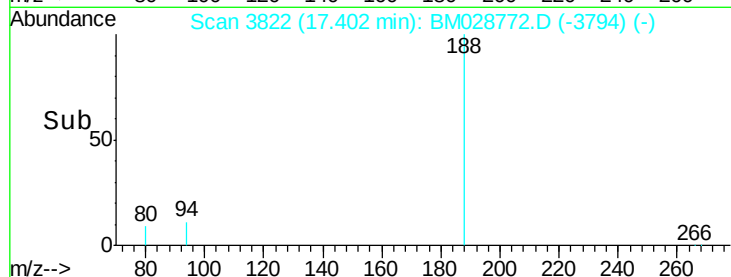
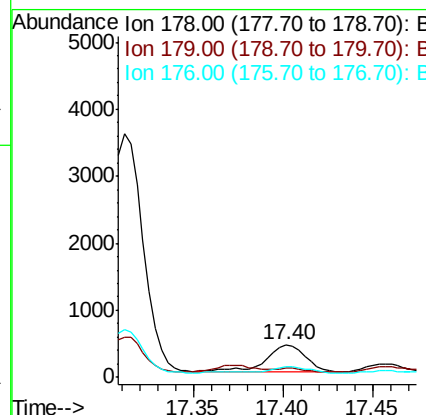
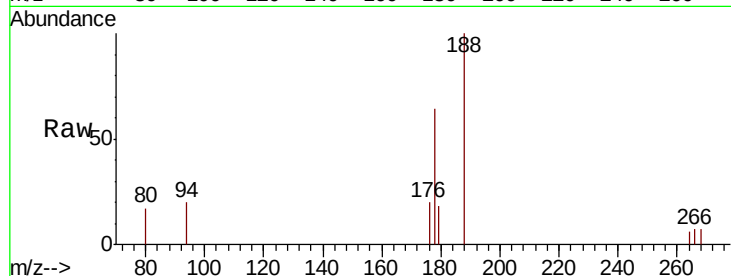
#13  
 Anthracene  
 Concen: 0.109 ng/ul  
 RT: 17.40 min Scan# 3822  
 Delta R.T. -0.00 min  
 Lab File: BM028772.D  
 Acq: 17 Feb 2021 15:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBGY4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 28.1  | 15.0  | 22.4# |
| 176     | 32.0  | 16.6  | 24.8# |

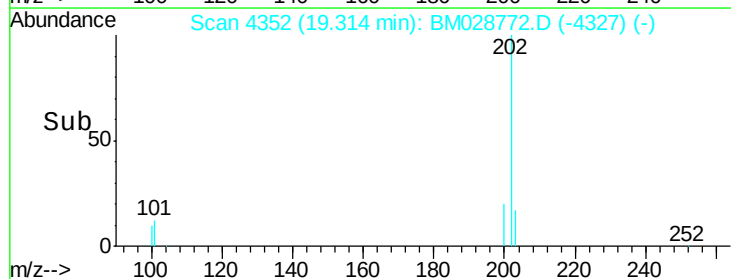
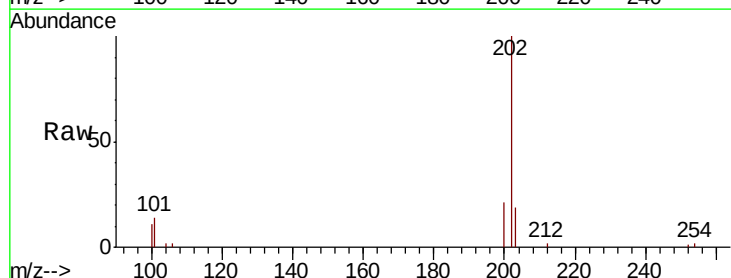
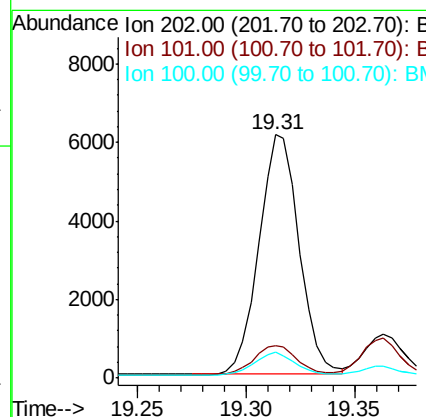
Manual Integrations  
 APPROVED

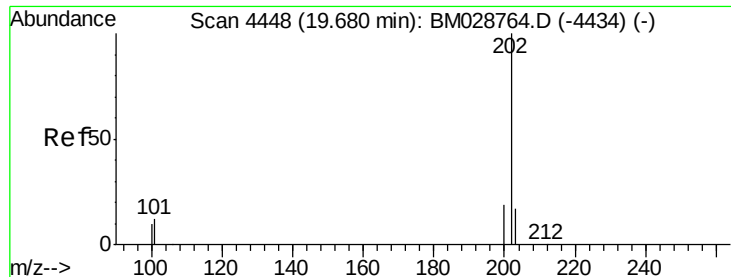
mohammad  
 2/18/2021 1:39:00 PM



#15  
 Fluoranthene  
 Concen: 1.157 ng/ul  
 RT: 19.31 min Scan# 4352  
 Delta R.T. -0.00 min  
 Lab File: BM028772.D  
 Acq: 17 Feb 2021 15:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.5  | 0.0   | 34.5  |
| 100     | 10.5  | 0.0   | 31.7  |





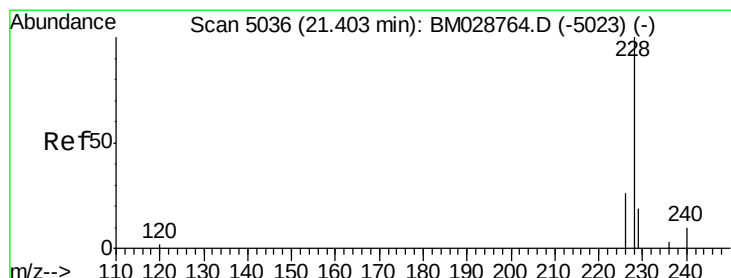
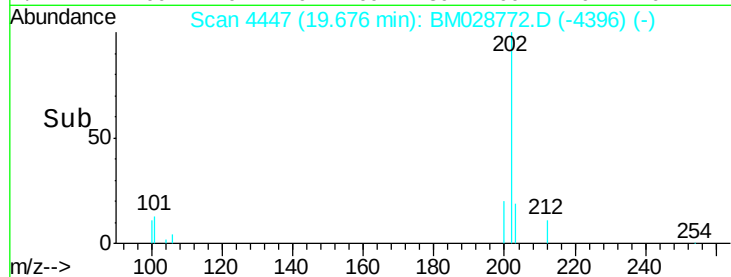
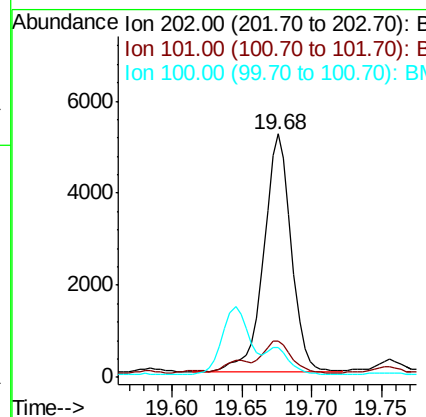
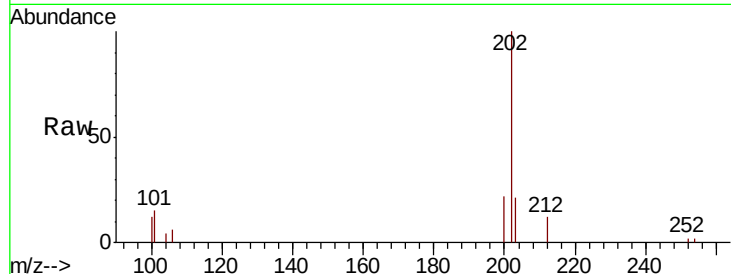
#17  
Pvrene  
Concen: 0.769 ng/ul  
RT: 19.68 min Scan# 4447  
Delta R.T. -0.00 min  
Lab File: BM028772.D  
Acq: 17 Feb 2021 15:13

Instrument :  
BNA\_M  
ClientSampleId :  
DBGY4

|             |       |       |
|-------------|-------|-------|
| Tot Ion:202 | Resp: | 7076  |
| Ion Ratio   | Lower | Upper |
| 202 100     |       |       |
| 101 14.9    | 12.7  | 19.1  |
| 100 12.1    | 10.2  | 15.4  |

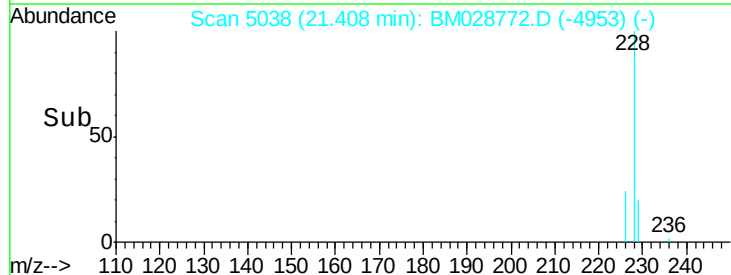
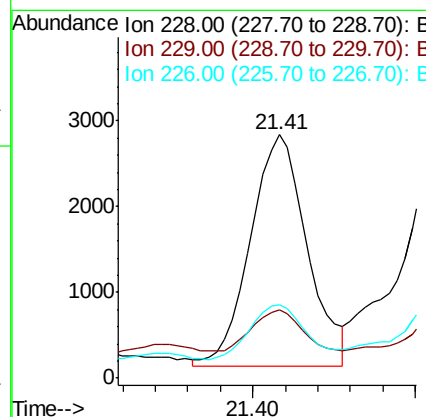
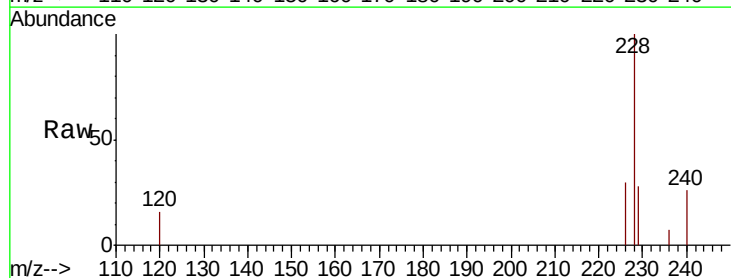
Manual Integrations  
APPROVED

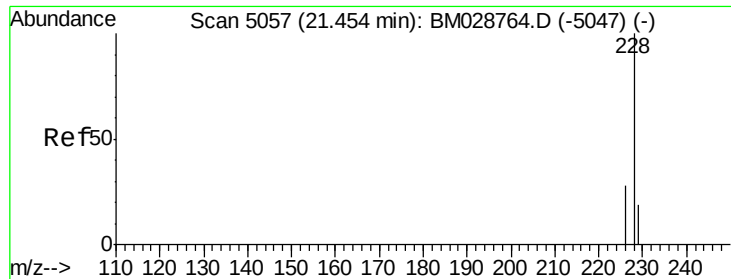
mohammad  
2/18/2021 1:39:00 PM



#18  
Benzo(a)anthracene  
Concen: 0.379 ng/ul  
RT: 21.41 min Scan# 5038  
Delta R.T. 0.00 min  
Lab File: BM028772.D  
Acq: 17 Feb 2021 15:13

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:228 | Resp: | 3274  |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 229 27.9    | 18.9  | 28.3  |
| 226 30.2    | 22.6  | 34.0  |





#19

Chrysene

Concen: 0.489 ng/ul

RT: 21.46 min Scan# 5059

Delta R.T. 0.00 min

Lab File: BM028772.D

Acq: 17 Feb 2021 15:13

Instrument :

BNA\_M

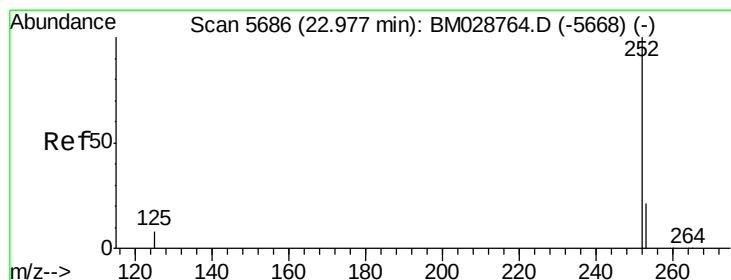
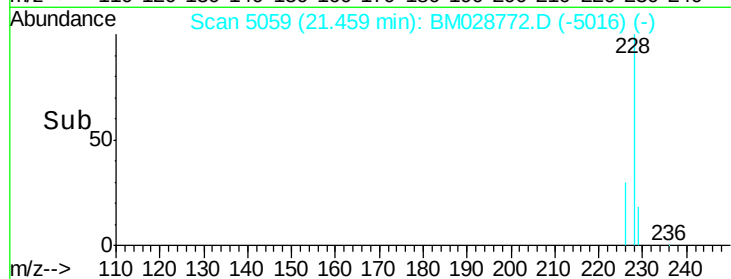
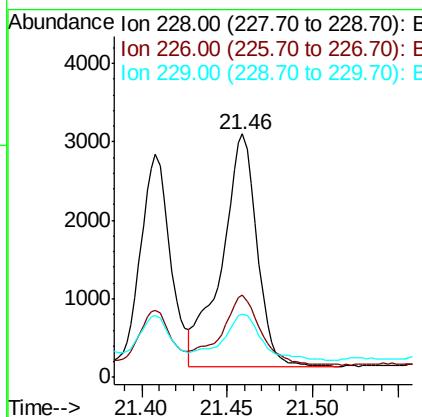
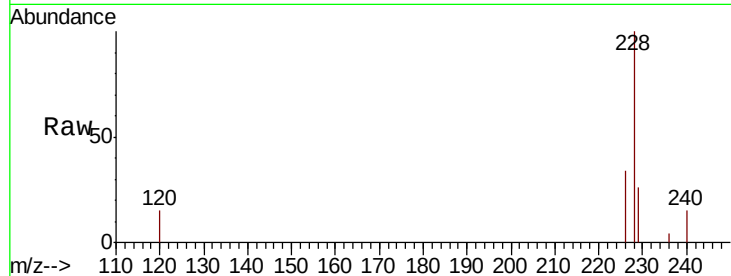
ClientSampleId :

DBGY4

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 4205  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 33.6  | 24.6  | 37.0  |
| 229      | 26.2  | 18.8  | 28.2  |

Manual Integrations  
APPROVED

mohammad  
2/18/2021 1:39:00 PM



#21

Benzo(b)fluoranthene

Concen: 0.760 ng/ul m

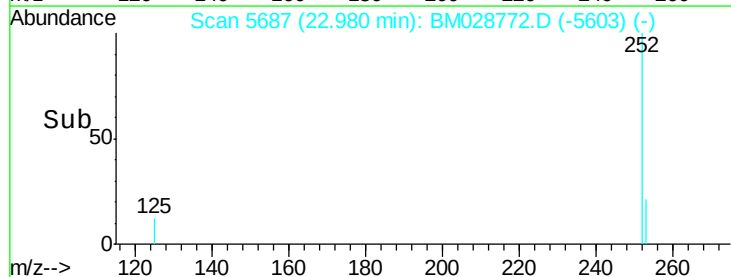
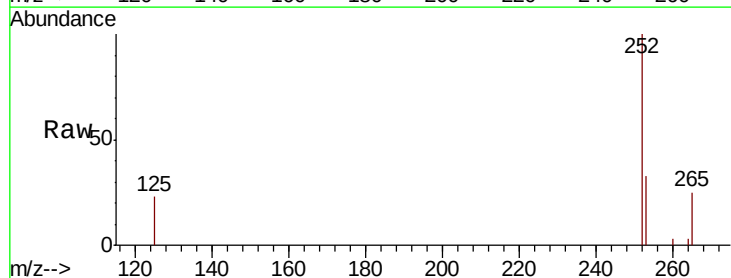
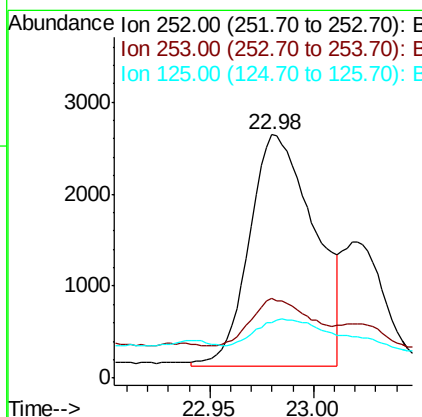
RT: 22.98 min Scan# 5687

Delta R.T. 0.00 min

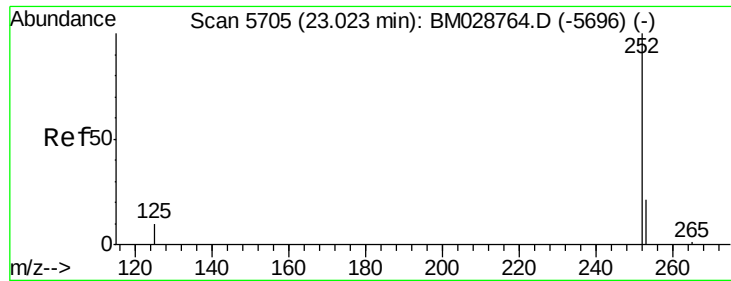
Lab File: BM028772.D

Acq: 17 Feb 2021 15:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 5444  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 32.6  | 0.0   | 67.0  |
| 125      | 22.8  | 0.0   | 57.4  |







#22

Benzo(k)fluoranthene

Concen: 0.294 ng/ul m

RT: 23.02 min Scan# 5704

Delta R.T. -0.00 min

Lab File: BM028772.D

Acq: 17 Feb 2021 15:13

Instrument :

BNA\_M

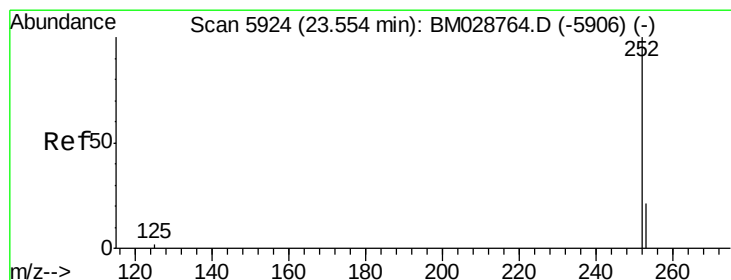
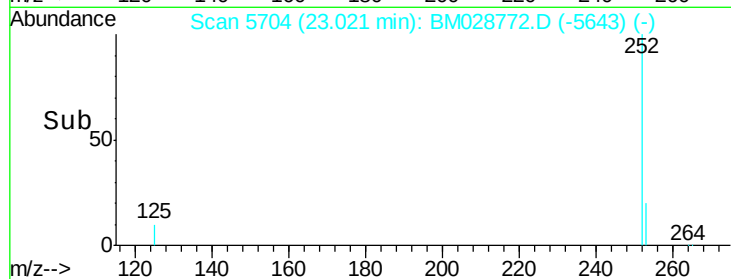
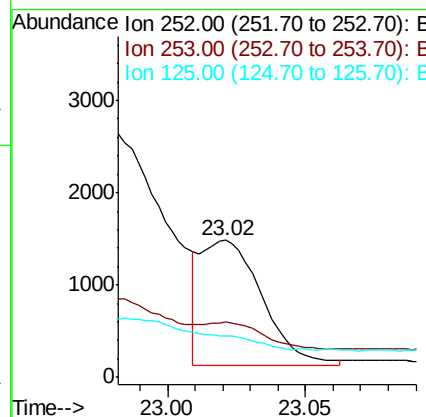
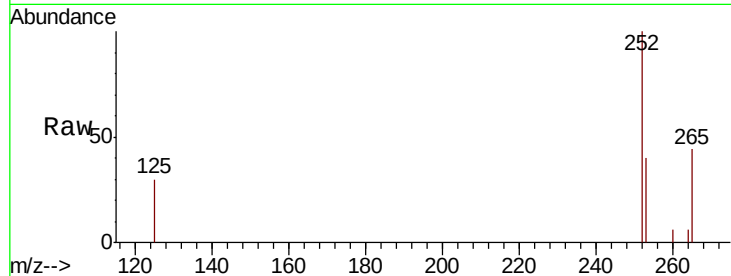
ClientSampleId :

DBGY4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 2103  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 40.1  | 26.3  | 39.5# |
| 125       | 29.8  | 22.9  | 34.3  |

Manual Integrations  
APPROVED

mohammad  
2/18/2021 1:39:00 PM



#23

Benzo(a)pyrene

Concen: 0.497 ng/ul

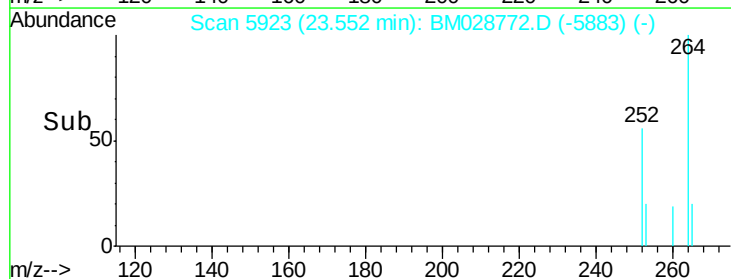
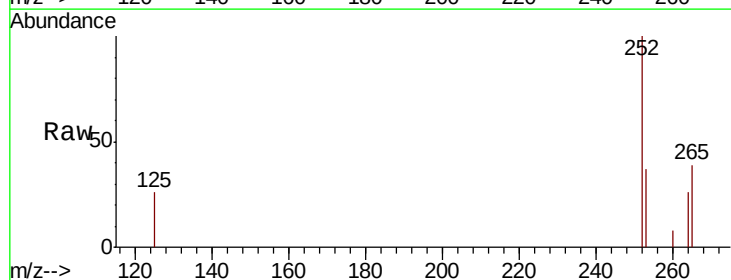
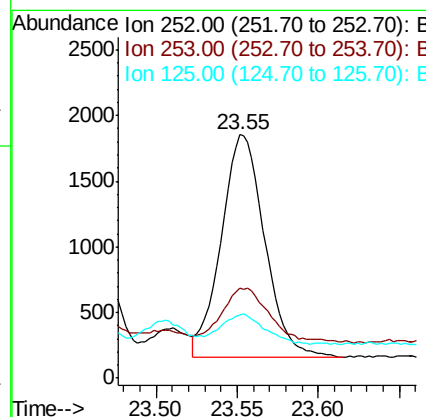
RT: 23.55 min Scan# 5923

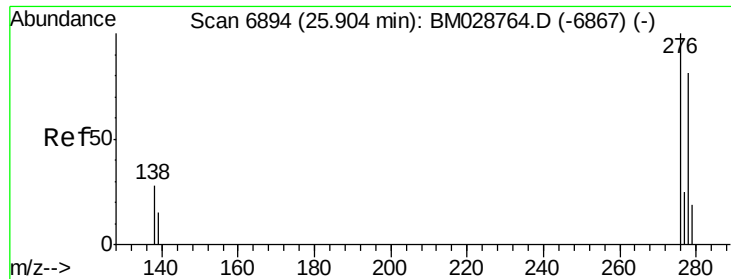
Delta R.T. -0.00 min

Lab File: BM028772.D

Acq: 17 Feb 2021 15:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 3174  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 36.9  | 28.7  | 43.1  |
| 125       | 26.0  | 27.9  | 41.9# |





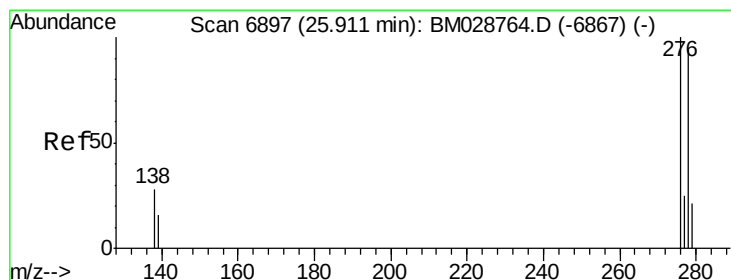
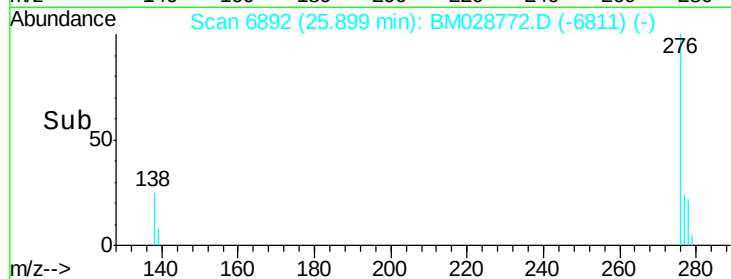
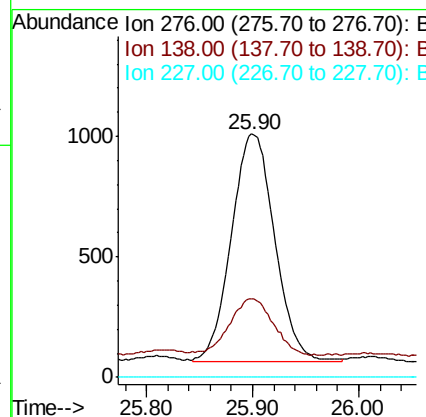
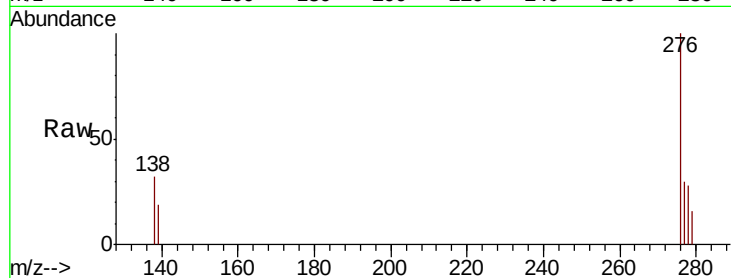
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.314 ng/ul  
RT: 25.90 min Scan# 6892  
Delta R.T. -0.00 min  
Lab File: BM028772.D  
Acq: 17 Feb 2021 15:13

Instrument :  
BNA\_M  
ClientSampled :  
DBGY4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.1  | 0.0   | 0.0#  |
| 227     | 0.0   | 0.0   | 0.0   |

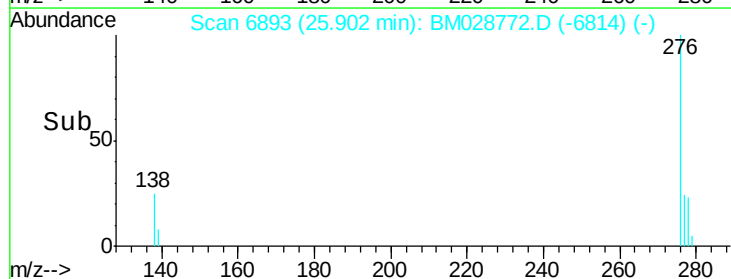
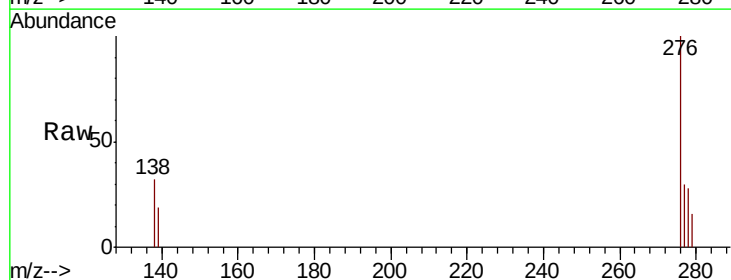
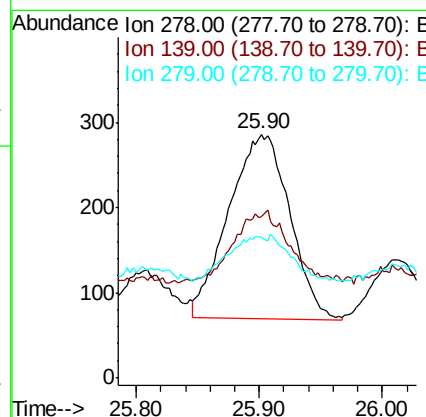
Manual Integrations  
APPROVED

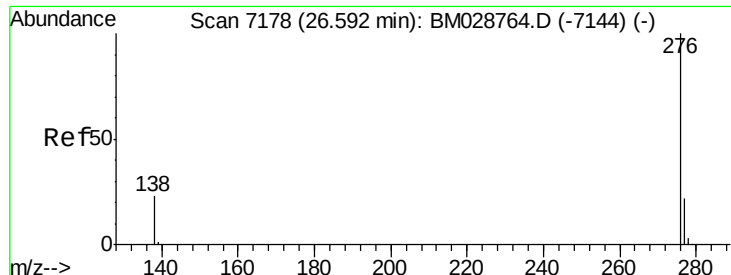
mohammad  
2/18/2021 1:39:00 PM



#25  
Dibenzo(a,h)anthracene  
Concen: 0.108 ng/ul  
RT: 25.90 min Scan# 6893  
Delta R.T. -0.01 min  
Lab File: BM028772.D  
Acq: 17 Feb 2021 15:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 66.1  | 24.9  | 37.3# |
| 279     | 57.7  | 28.3  | 42.5# |





#26  
 Benzo(a,h,i)perylene  
 Concen: 0.345 ng/ul  
 RT: 26.59 min Scan# 7178  
 Delta R.T. -0.00 min  
 Lab File: BM028772.D  
 Acq: 17 Feb 2021 15:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBGY4

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 2390 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 32.3  | 25.4  | 38.2 |
| 277       | 30.7  | 25.3  | 37.9 |

Manual Integrations  
 APPROVED

mohammad  
 2/18/2021 1:39:00 PM

