

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM021821\  
 Data File : BM028789.D  
 Acq On : 18 Feb 2021 10:36  
 Operator : CG/JU  
 Sample : M1379-07  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBGY7

Manual Integrations  
 APPROVED

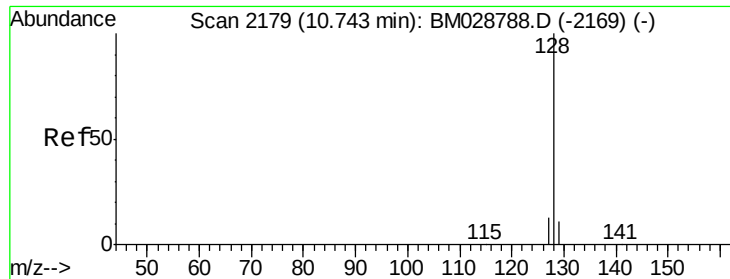
mohammad  
 2/19/2021 1:19:26 PM

Quant Time: Feb 18 11:41:24 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 : Thu Feb 18 11:38:02 2021  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.89  | 152  | 445      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.69 | 136  | 1748     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.54 | 164  | 1046     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.27 | 188  | 1955m    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.44 | 240  | 3045     | 0.40   | ng/ul  | 0.02     |
| 20) Perylene-d12            | 23.67 | 264  | 1809     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.29 | 152  | 550      | 0.22   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.29 | 212  | 1556     | 0.31   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.74 | 128  | 841      | 0.193  | ng/ul# | 87       |
| 5) 2-Methylnaphthalene      | 12.36 | 142  | 302      | 0.104  | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.26 | 152  | 1536     | 0.360  | ng/ul  | 95       |
| 8) Acenaphthene             | 14.60 | 153  | 328      | 0.097  | ng/ul  | 96       |
| 9) Fluorene                 | 15.59 | 166  | 500      | 0.133  | ng/ul# | 87       |
| 11) Pentachlorophenol       | 16.94 | 266  | 55       | 0.108  | ng/ul  | 97       |
| 12) Phenanthrene            | 17.32 | 178  | 3906     | 0.715  | ng/ul  | 98       |
| 13) Anthracene              | 17.41 | 178  | 2197     | 0.422  | ng/ul# | 78       |
| 15) Fluoranthene            | 19.33 | 202  | 10805    | 1.737  | ng/ul  | 97       |
| 17) Pyrene                  | 19.69 | 202  | 10541    | 0.953  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.42 | 228  | 3628     | 0.349  | ng/ul# | 72       |
| 19) Chrysene                | 21.47 | 228  | 6307     | 0.610  | ng/ul# | 76       |
| 21) Benzo(b)fluoranthene    | 22.99 | 252  | 10277m   | 1.660  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.03 | 252  | 3153m    | 0.510  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.57 | 252  | 3744     | 0.679  | ng/ul# | 86       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.92 | 276  | 3836     | 0.534  | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.92 | 278  | 1029     | 0.171  | ng/ul# | 9        |
| 26) Benzo(g,h,i)perylene    | 26.61 | 276  | 3434     | 0.575  | ng/ul  | 95       |

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





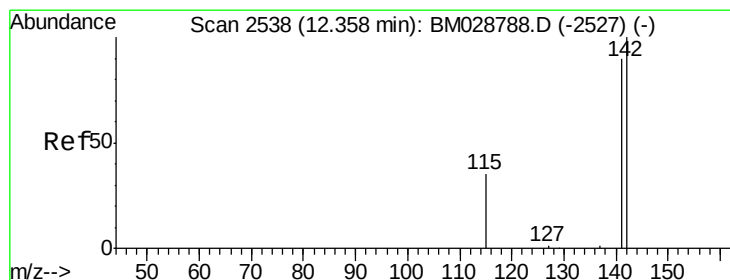
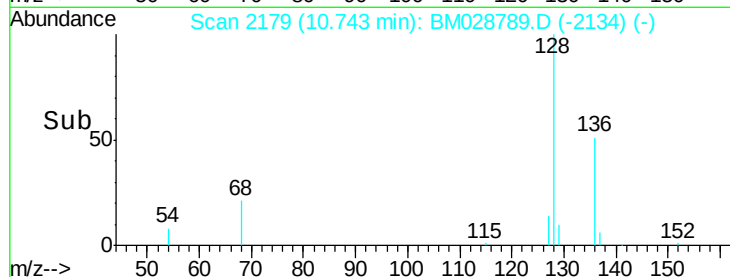
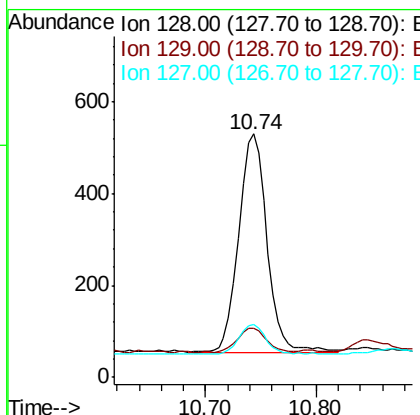
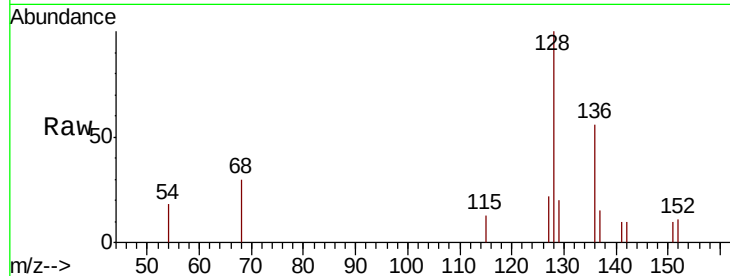
#3  
Naphthalene  
Concen: 0.193 ng/ul  
RT: 10.74 min Scan# 2179  
Delta R.T. 0.00 min  
Lab File: BM028789.D  
Acq: 18 Feb 2021 10:36

Instrument :  
BNA\_M  
ClientSampleId :  
DBGY7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 20.2  | 11.4  | 17.2# |
| 127     | 21.7  | 13.0  | 19.6# |

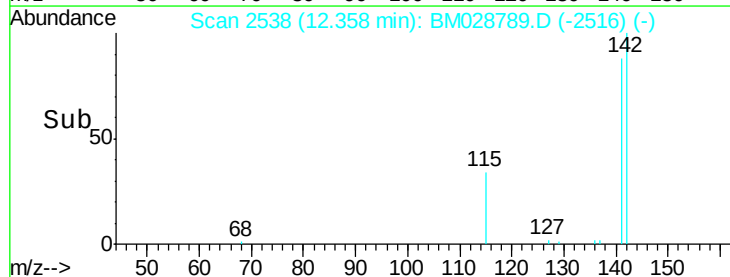
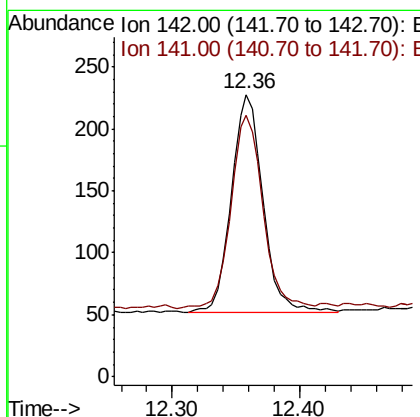
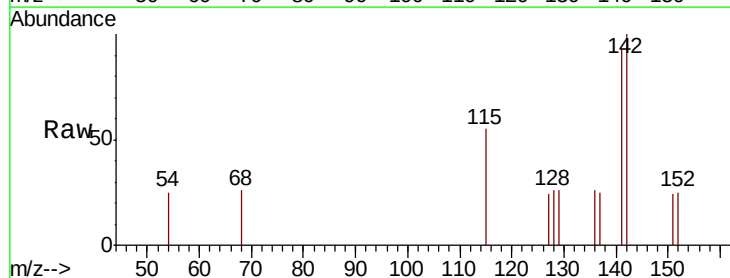
Manual Integrations  
APPROVED

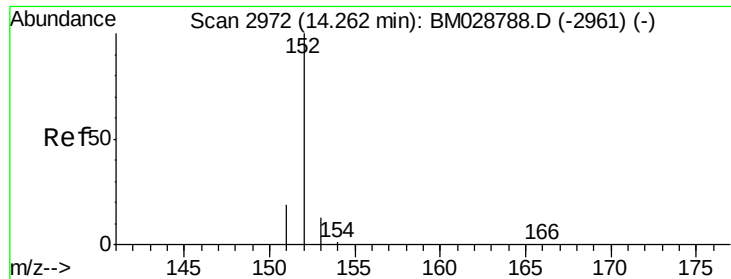
mohammad  
2/19/2021 1:19:26 PM



#5  
2-Methylnaphthalene  
Concen: 0.104 ng/ul  
RT: 12.36 min Scan# 2538  
Delta R.T. 0.00 min  
Lab File: BM028789.D  
Acq: 18 Feb 2021 10:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.1  | 72.2  | 108.4 |





#7

Acenaphthylene

Concen: 0.360 ng/ul

RT: 14.26 min Scan# 2971

Delta R.T. -0.00 min

Lab File: BM028789.D

Acq: 18 Feb 2021 10:36

Instrument :

BNA\_M

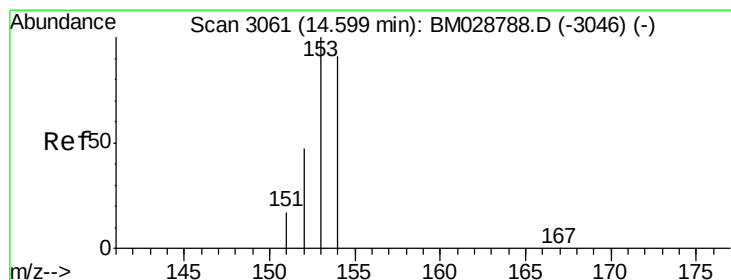
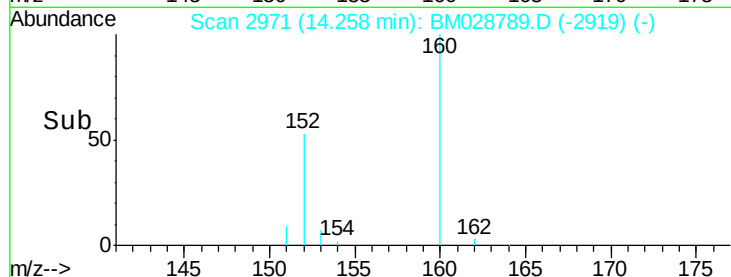
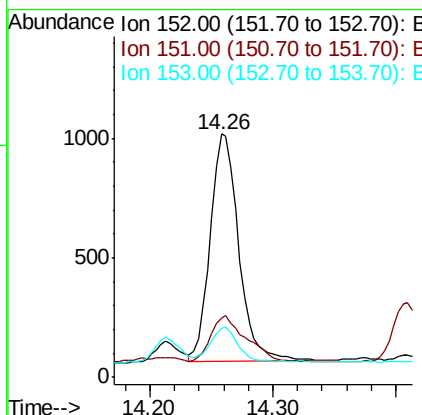
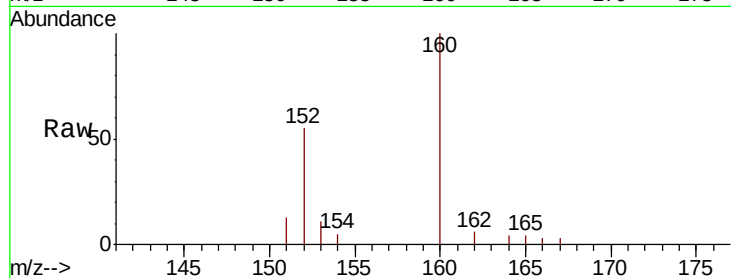
ClientSampleId :

DBGY7

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 1536 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 24.1  | 18.0  | 27.0 |
| 153       | 19.9  | 13.4  | 20.0 |

Manual Integrations  
APPROVED

mohammad  
2/19/2021 1:19:26 PM



#8

Acenaphthene

Concen: 0.097 ng/ul

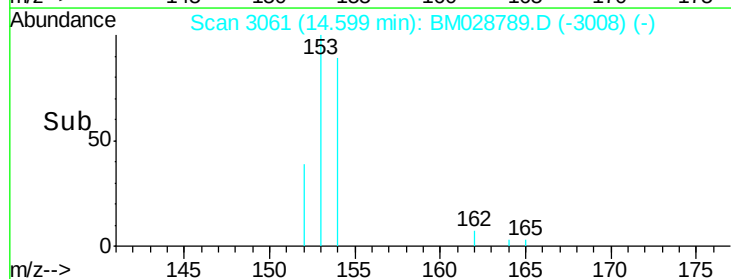
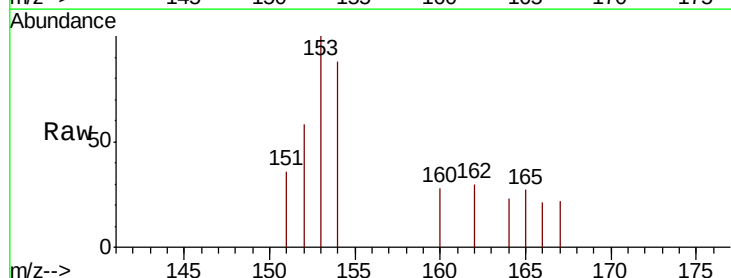
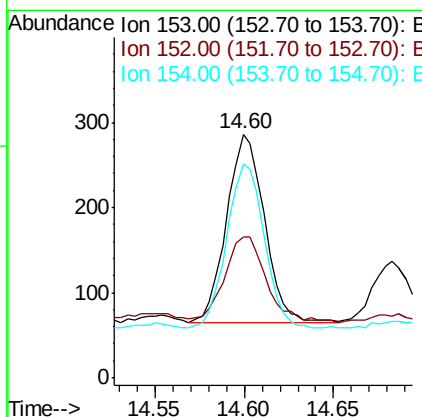
RT: 14.60 min Scan# 3061

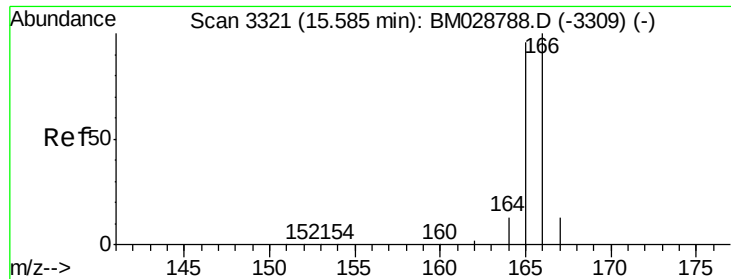
Delta R.T. 0.00 min

Lab File: BM028789.D

Acq: 18 Feb 2021 10:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 328   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 57.7  | 39.6  | 59.4  |
| 154       | 87.8  | 70.3  | 105.5 |





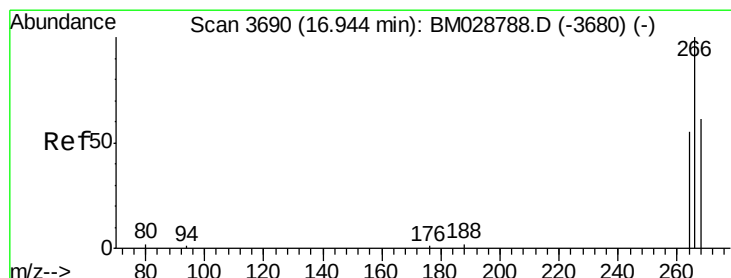
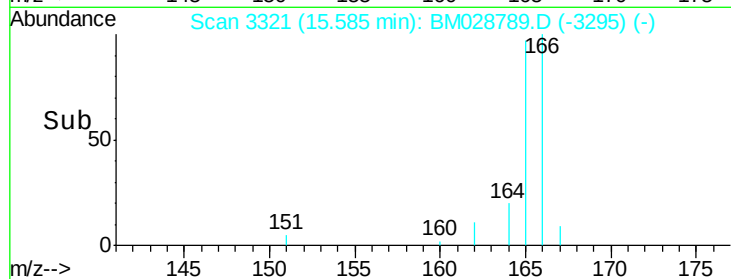
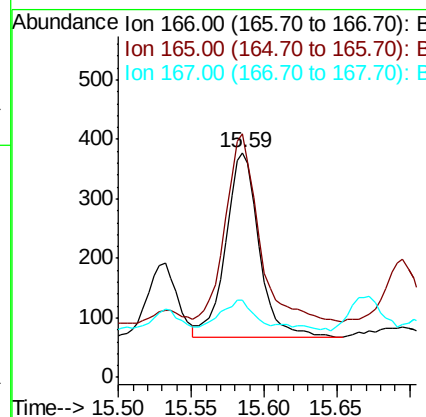
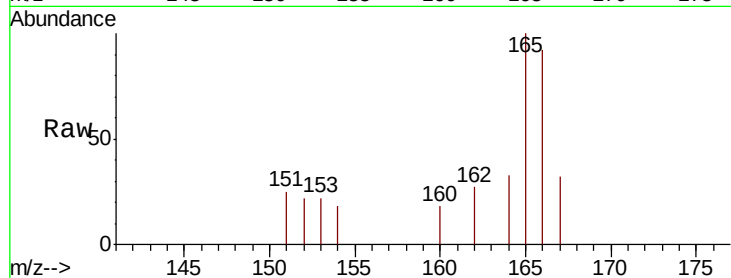
#9  
**Fluorene**  
 Concen: 0.133 ng/ul  
 RT: 15.59 min Scan# 3321  
 Delta R.T. 0.00 min  
 Lab File: BM028789.D  
 Acq: 18 Feb 2021 10:36

Instrument :  
 BNA\_M  
 ClientSampled :  
 DBGY7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 108.2 | 79.6  | 119.4 |
| 167     | 34.1  | 13.9  | 20.9  |

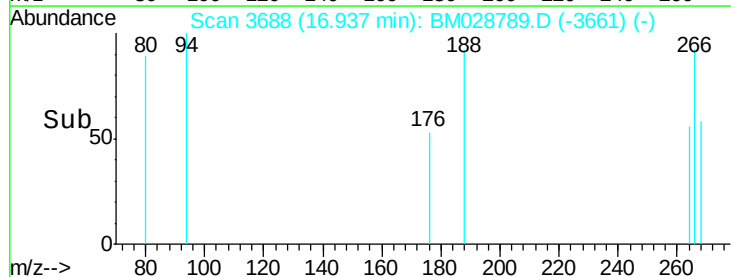
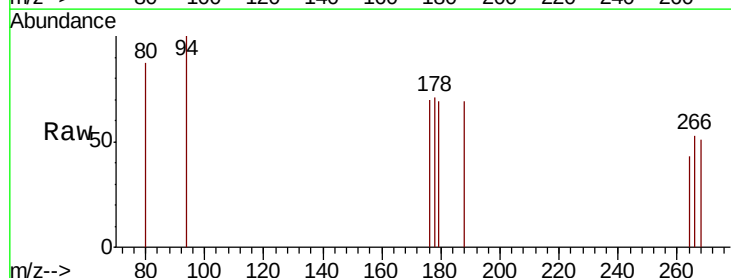
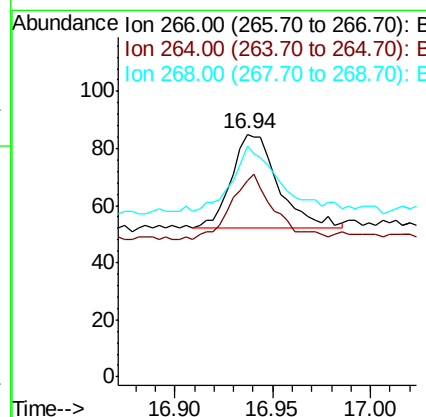
Manual Integrations  
 APPROVED

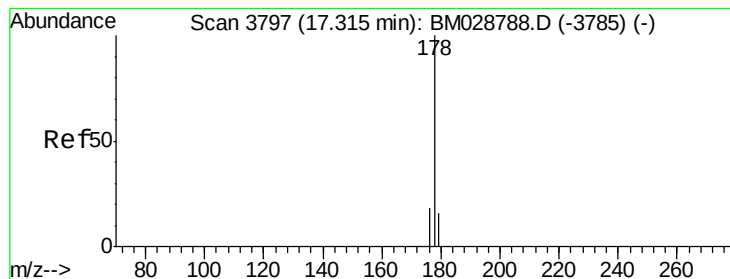
mohammad  
 2/19/2021 1:19:26 PM



#11  
**Pentachlorophenol**  
 Concen: 0.108 ng/ul  
 RT: 16.94 min Scan# 3688  
 Delta R.T. -0.01 min  
 Lab File: BM028789.D  
 Acq: 18 Feb 2021 10:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 65.5  | 51.0  | 76.4  |
| 268     | 69.1  | 53.0  | 79.4  |





#12

Phenanthrene

Concen: 0.715 ng/ul

RT: 17.32 min Scan# 3797

Delta R.T. 0.00 min

Lab File: BM028789.D

Acq: 18 Feb 2021 10:36

Instrument :

BNA\_M

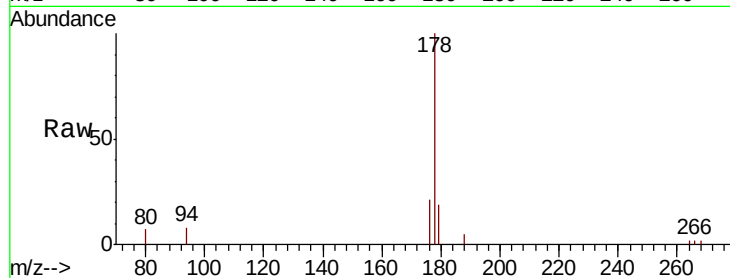
ClientSampleId :

DBGY7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 19.4  | 14.7  | 22.1  |
| 176     | 21.5  | 16.7  | 25.1  |

Manual Integrations  
APPROVED

mohammad  
2/19/2021 1:19:26 PM

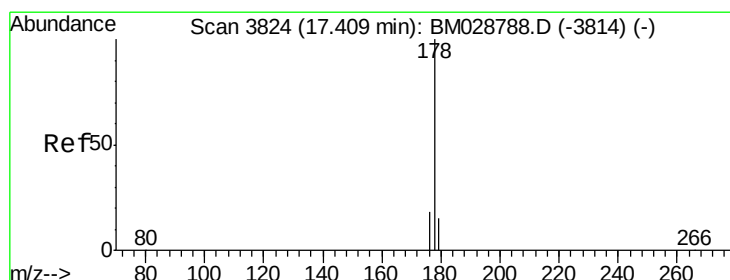
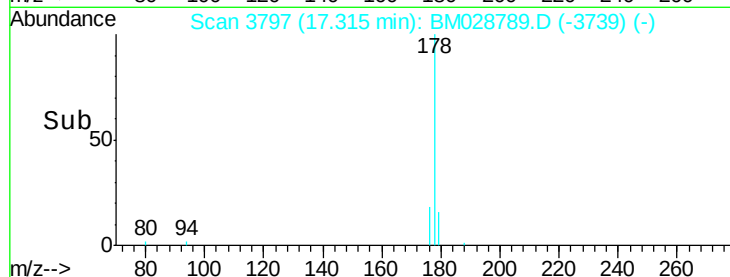
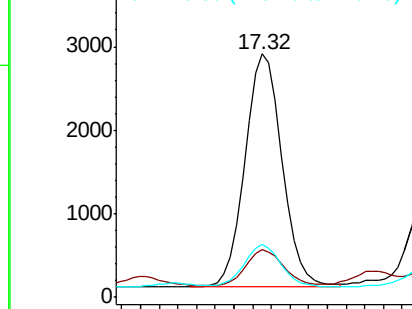


Abundance

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: 0.422 ng/ul

RT: 17.41 min Scan# 3823

Delta R.T. -0.00 min

Lab File: BM028789.D

Acq: 18 Feb 2021 10:36

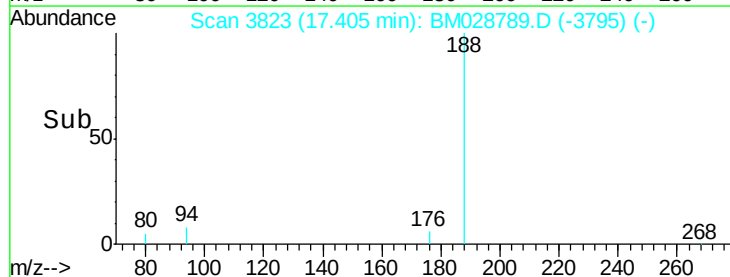
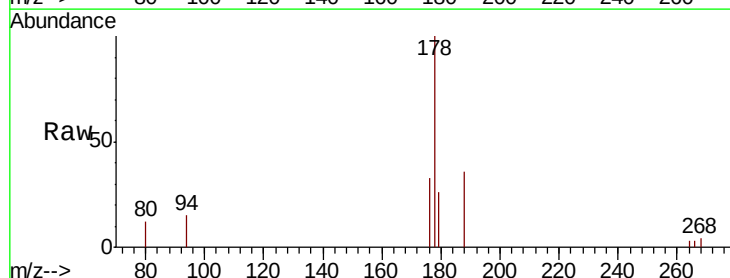
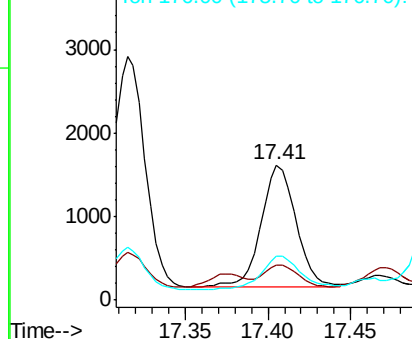
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 26.3  | 15.0  | 22.4# |
| 176     | 32.8  | 16.6  | 24.8# |

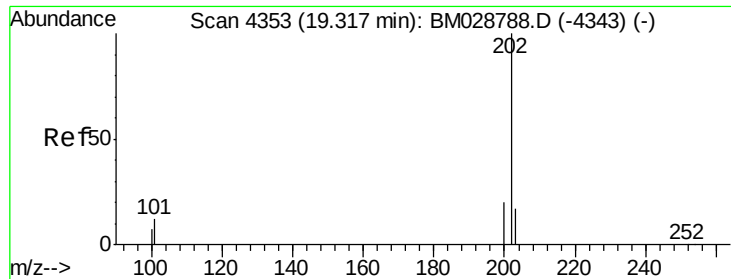
Abundance

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: 1.737 ng/ul

RT: 19.33 min Scan# 4355

Delta R.T. 0.01 min

Lab File: BM028789.D

Acq: 18 Feb 2021 10:36

Instrument :

BNA\_M

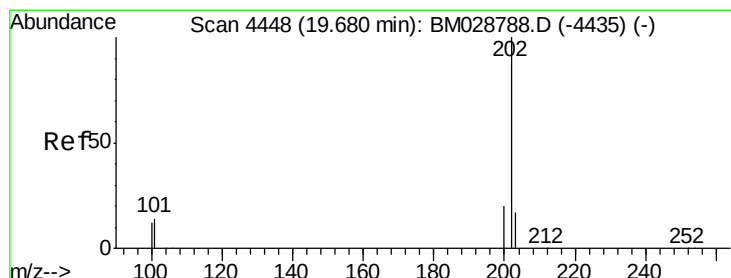
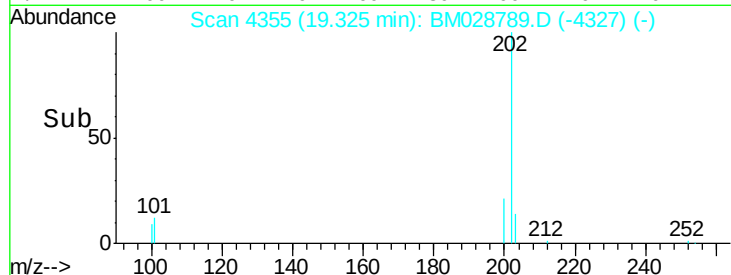
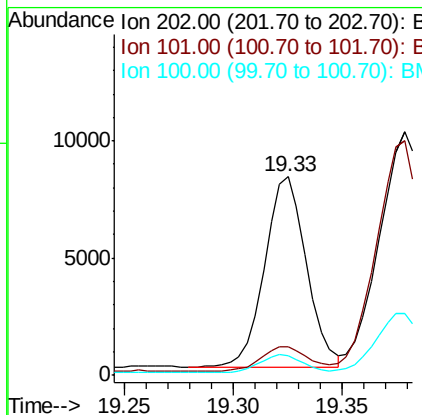
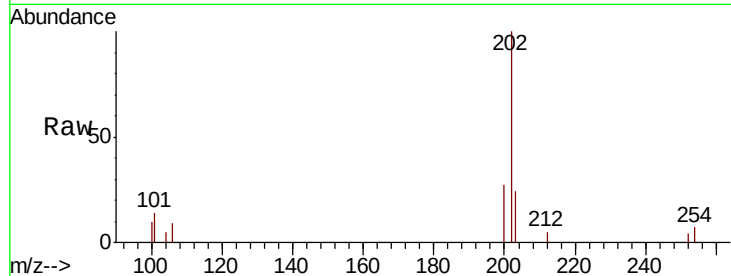
ClientSampleId :

DBGY7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 10805 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 14.2  | 0.0   | 34.5  |
| 100       | 9.7   | 0.0   | 31.7  |

Manual Integrations  
APPROVED

mohammad  
2/19/2021 1:19:26 PM



#17

Pyrene

Concen: 0.953 ng/ul

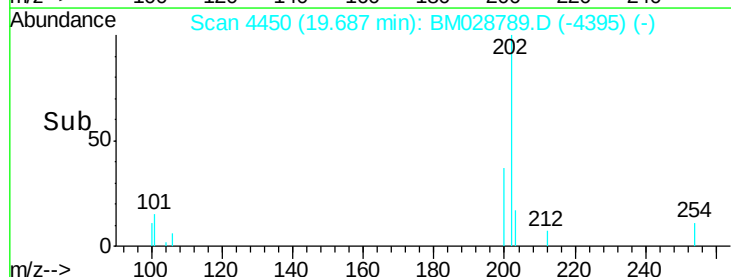
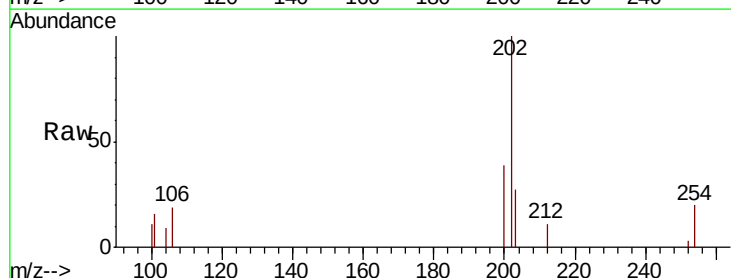
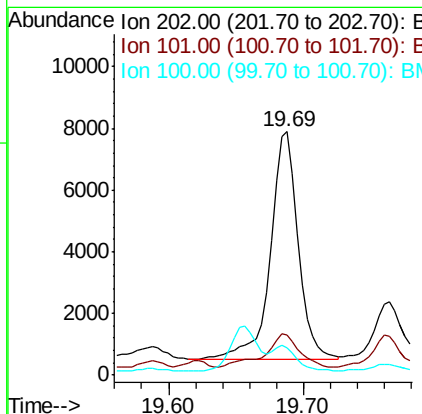
RT: 19.69 min Scan# 4450

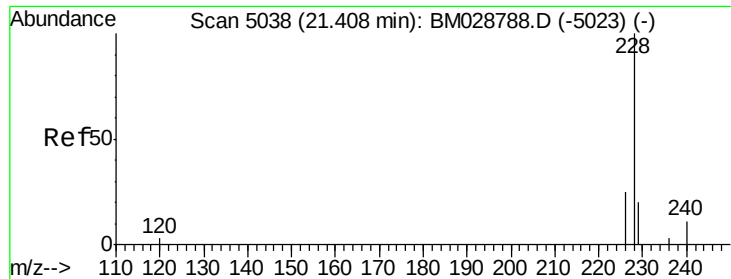
Delta R.T. 0.01 min

Lab File: BM028789.D

Acq: 18 Feb 2021 10:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 10541 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 16.3  | 12.7  | 19.1  |
| 100       | 11.3  | 10.2  | 15.4  |





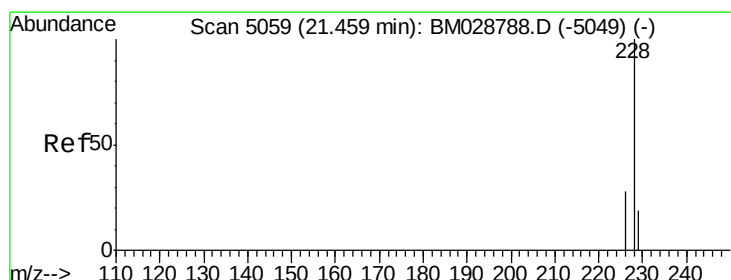
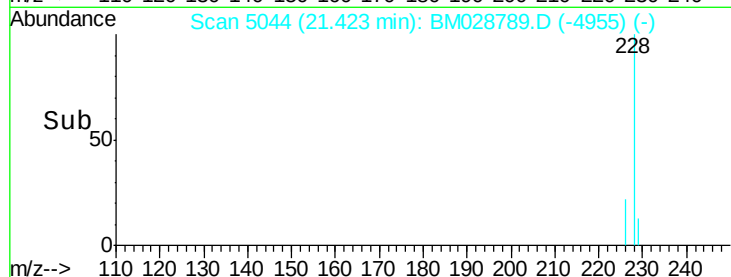
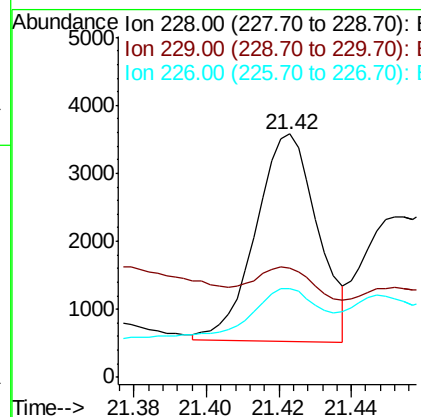
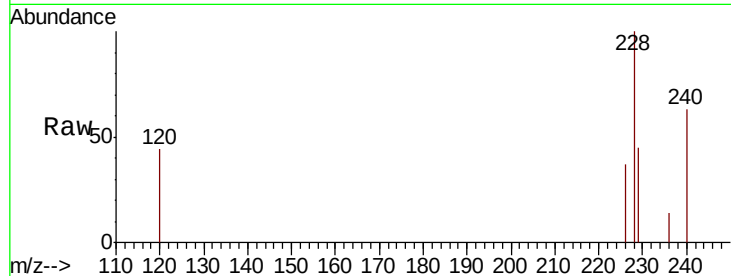
#18  
Benzo(a)anthracene  
Concen: 0.349 ng/ul  
RT: 21.42 min Scan# 5044  
Delta R.T. 0.01 min  
Lab File: BM028789.D  
Acq: 18 Feb 2021 10:36

Instrument :  
BNA\_M  
ClientSampleId :  
DBGY7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 44.8  | 18.9  | 28.3# |
| 226     | 36.7  | 22.6  | 34.0# |

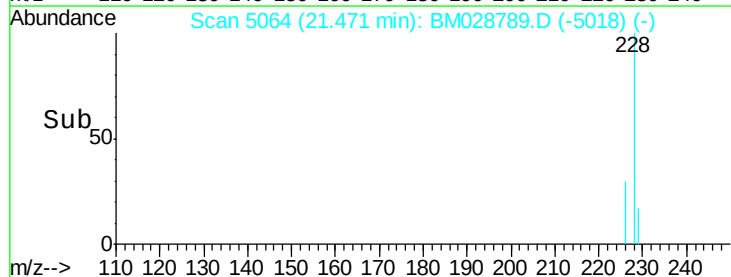
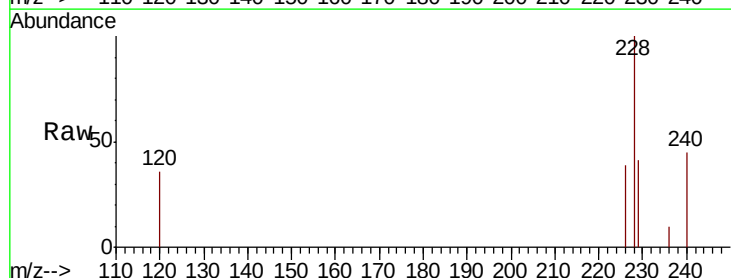
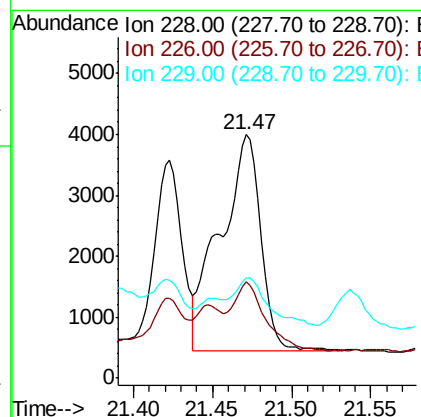
Manual Integrations  
APPROVED

mohammad  
2/19/2021 1:19:26 PM

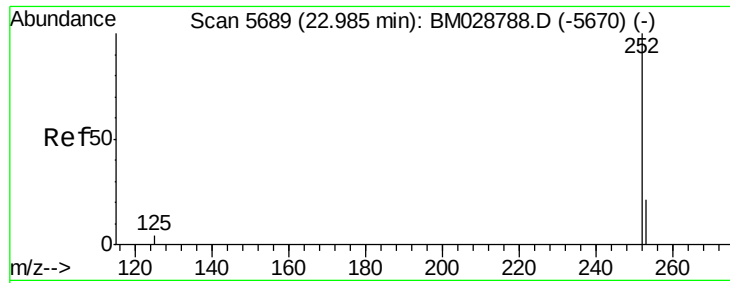


#19  
Chrysene  
Concen: 0.610 ng/ul  
RT: 21.47 min Scan# 5064  
Delta R.T. 0.01 min  
Lab File: BM028789.D  
Acq: 18 Feb 2021 10:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 39.4  | 24.6  | 37.0# |
| 229     | 41.0  | 18.8  | 28.2# |







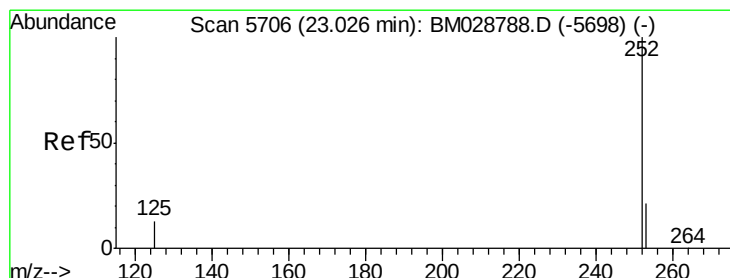
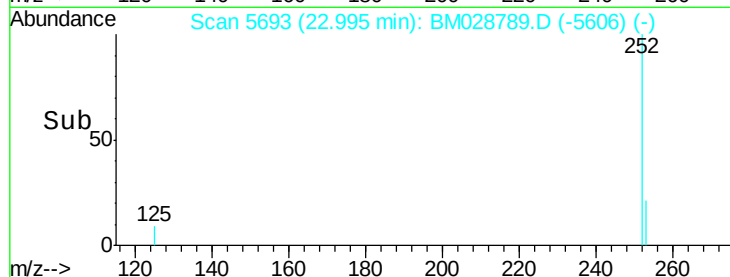
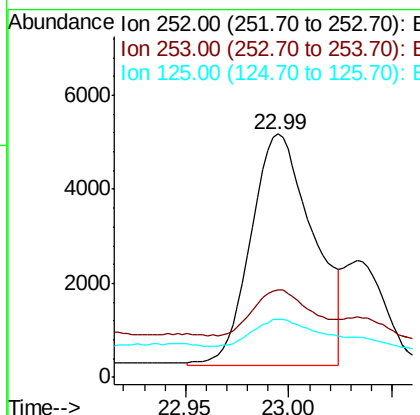
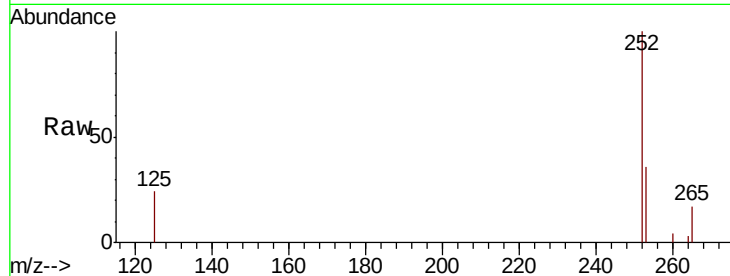
#21  
Benzo(b)fluoranthene  
Concen: 1.660 ng/ul m  
RT: 22.99 min Scan# 5693  
Delta R.T. 0.01 min  
Lab File: BM028789.D  
Acq: 18 Feb 2021 10:36

Instrument :  
BNA\_M  
ClientSampleId :  
DBGY7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 36.0  | 0.0   | 67.0  |
| 125     | 24.0  | 0.0   | 57.4  |

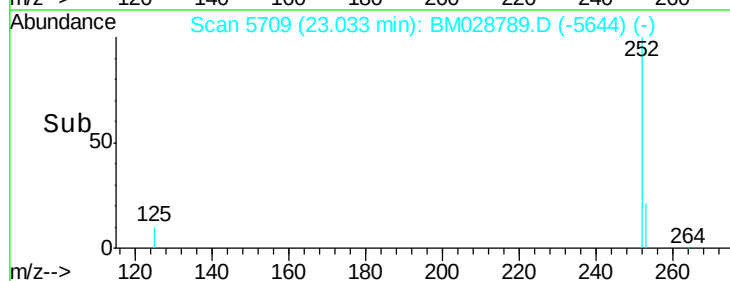
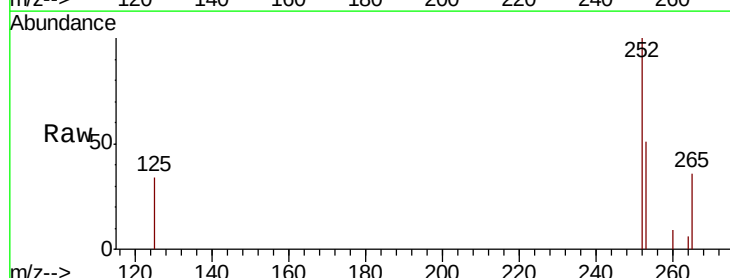
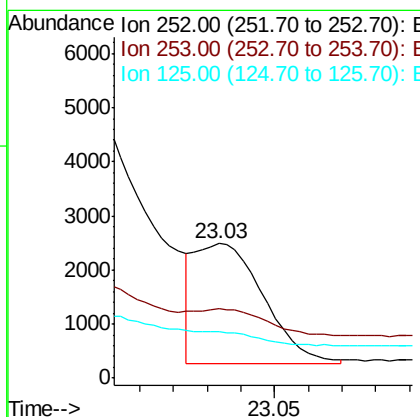
Manual Integrations  
APPROVED

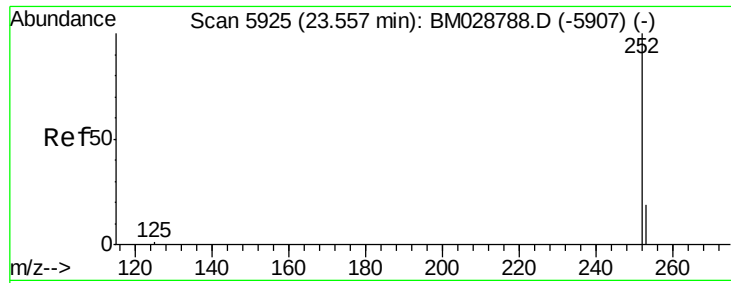
mohammad  
2/19/2021 1:19:26 PM



#22  
Benzo(k)fluoranthene  
Concen: 0.510 ng/ul m  
RT: 23.03 min Scan# 5709  
Delta R.T. 0.01 min  
Lab File: BM028789.D  
Acq: 18 Feb 2021 10:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 51.4  | 26.3  | 39.5# |
| 125     | 34.2  | 22.9  | 34.3  |





#23

Benzo(a)pyrene

Concen: 0.679 ng/ul

RT: 23.57 min Scan# 5929

Delta R.T. 0.01 min

Lab File: BM028789.D

Acq: 18 Feb 2021 10:36

Instrument :

BNA\_M

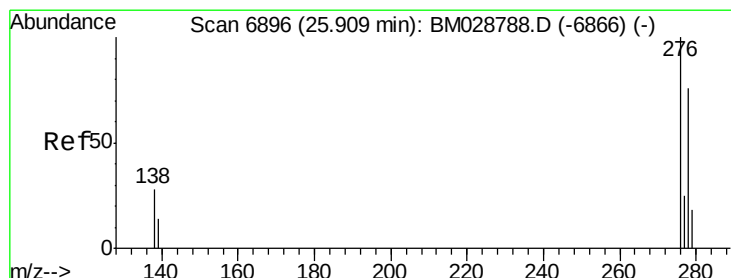
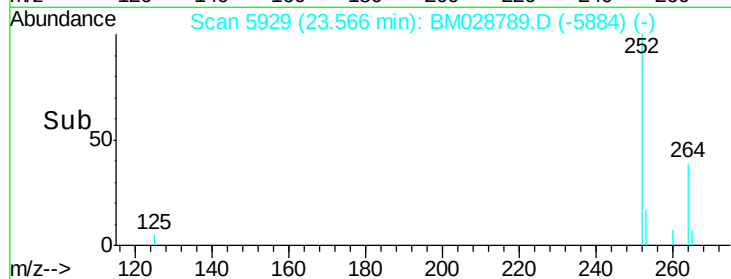
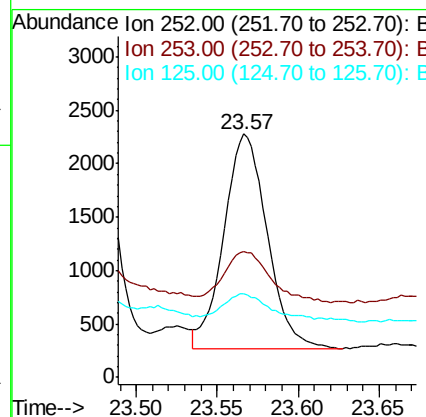
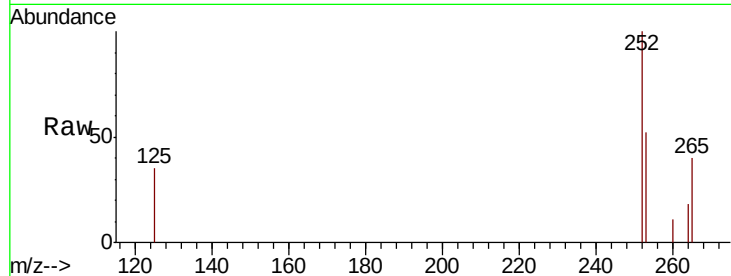
ClientSampleId :

DBGY7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 3744  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 51.5  | 28.7  | 43.1# |
| 125       | 34.6  | 27.9  | 41.9  |

Manual Integrations  
APPROVED

mohammad  
2/19/2021 1:19:26 PM



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.534 ng/ul

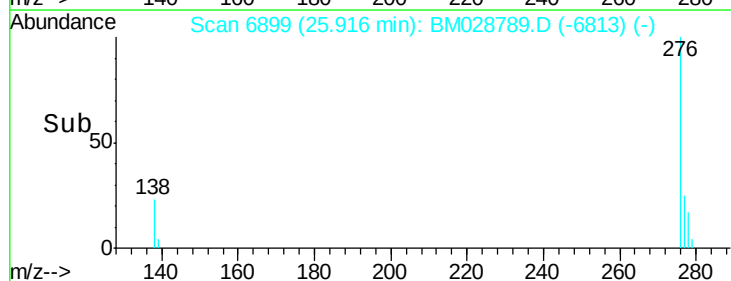
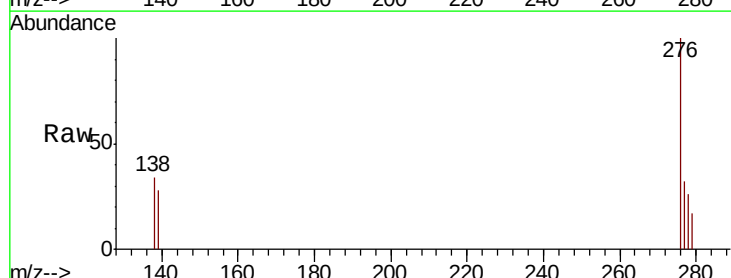
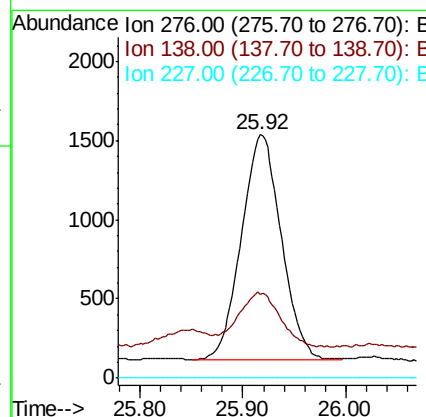
RT: 25.92 min Scan# 6899

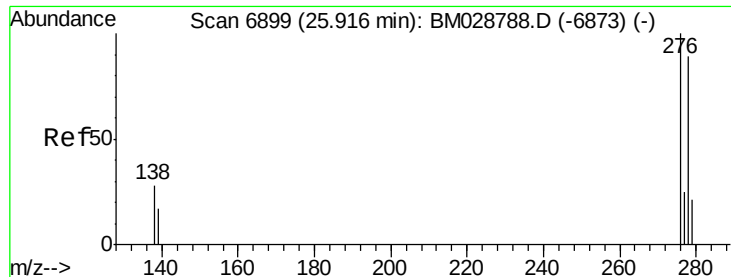
Delta R.T. 0.01 min

Lab File: BM028789.D

Acq: 18 Feb 2021 10:36

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 3836 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 25.1  | 0.0   | 0.0# |
| 227       | 0.0   | 0.0   | 0.0  |





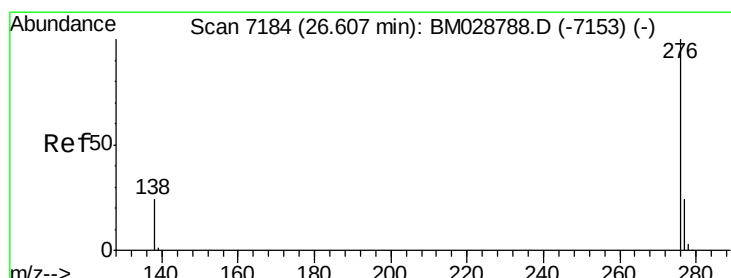
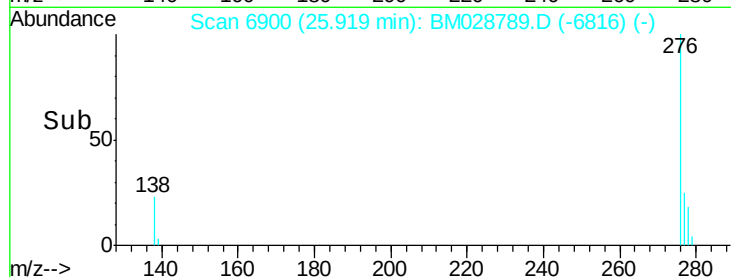
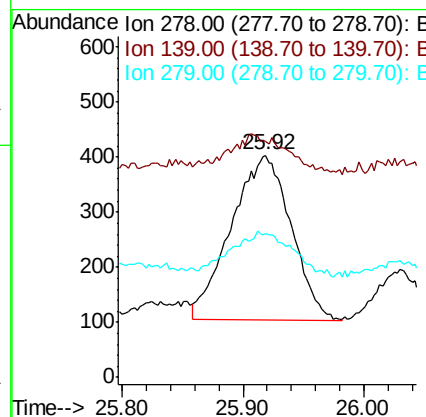
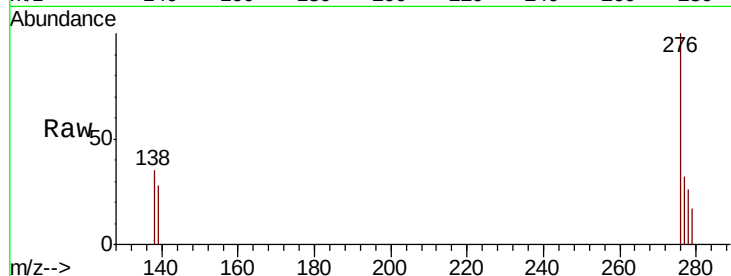
#25  
Dibenzo(a,h)anthracene  
Concen: 0.171 ng/ul  
RT: 25.92 min Scan# 6900  
Delta R.T. 0.00 min  
Lab File: BM028789.D  
Acq: 18 Feb 2021 10:36

Instrument :  
BNA\_M  
ClientSampleId :  
DBGY7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 106.2 | 24.9  | 37.3# |
| 279     | 64.8  | 28.3  | 42.5# |

Manual Integrations  
APPROVED

mohammad  
2/19/2021 1:19:26 PM



#26  
Benzo(g,h,i)perylene  
Concen: 0.575 ng/ul  
RT: 26.61 min Scan# 7185  
Delta R.T. 0.00 min  
Lab File: BM028789.D  
Acq: 18 Feb 2021 10:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 36.6  | 25.4  | 38.2  |
| 277     | 31.9  | 25.3  | 37.9  |

