

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031320\  
 Data File : BM025546.D  
 Acq On : 13 Mar 2020 18:11  
 Operator : CG/JU  
 Sample : L1786-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AA4

Manual Integrations  
 APPROVED

mohammad  
 3/16/2020 1:52:14 PM

Quant Time: Mar 16 05:50:04 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 16 05:37:34 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.66  | 152  | 3515     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.42 | 136  | 14903    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.28 | 164  | 10071    | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.03 | 188  | 20452    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.22 | 240  | 16408    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.40 | 264  | 17779    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152  | 2917     | 0.11   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.06 | 212  | 6066     | 0.11   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.47 | 128  | 8487     | 0.192  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.09 | 142  | 1805     | 0.057  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.00 | 152  | 6848     | 0.166  | ng/ul# | 86       |
| 8) Acenaphthene             | 14.34 | 153  | 7654     | 0.212  | ng/ul  | 99       |
| 9) Fluorene                 | 15.33 | 166  | 21544    | 0.490  | ng/ul  | 100      |
| 12) Phenanthrene            | 17.07 | 178  | 183795   | 2.836  | ng/ul  | 99       |
| 13) Anthracene              | 17.16 | 178  | 42879    | 0.760  | ng/ul  | 100      |
| 15) Fluoranthene            | 19.09 | 202  | 203768   | 2.900  | ng/ul  | 99       |
| 17) Pyrene                  | 19.45 | 202  | 141104   | 1.916  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.20 | 228  | 74210    | 1.265  | ng/ul  | 99       |
| 19) Chrysene                | 21.25 | 228  | 47232    | 0.717  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.75 | 252  | 64921m   | 0.922  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.79 | 252  | 26585m   | 0.360  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.31 | 252  | 45842    | 0.784  | ng/ul  | 96       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.57 | 276  | 22776    | 0.287  | ng/ul# | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.58 | 278  | 7323     | 0.110  | ng/ul# | 87       |
| 26) Benzo(a,h,i)perylene    | 26.23 | 276  | 13343    | 0.194  | ng/ul# | 97       |

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

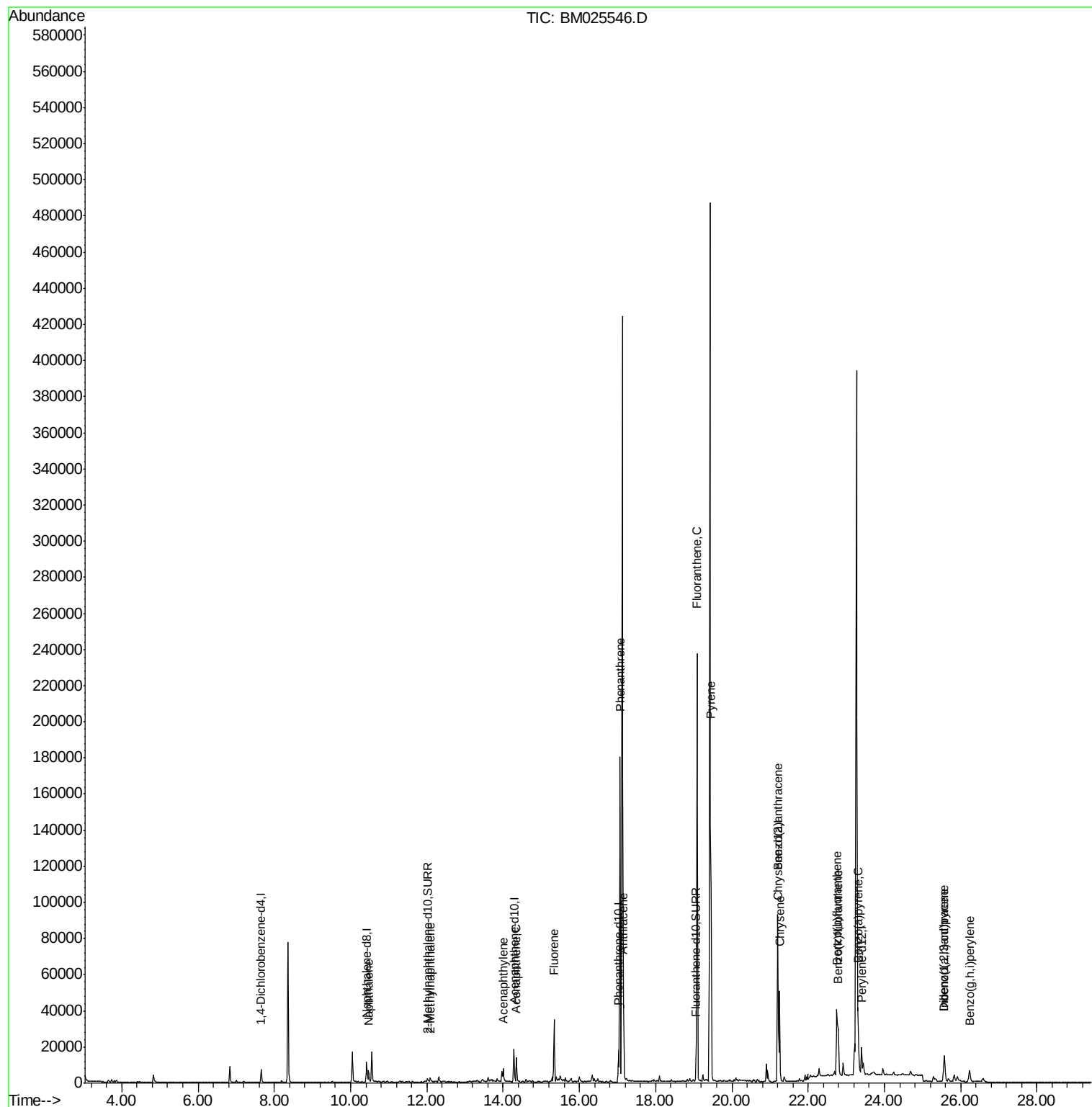
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031320\  
Data File : BM025546.D  
Acq On : 13 Mar 2020 18:11  
Operator : CG/JU  
Sample : L1786-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

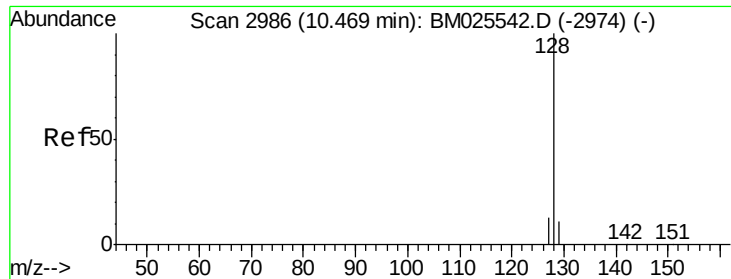
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA4

Manual Integrations  
APPROVED

mohammad  
3/16/2020 1:52:14 PM

Quant Time: Mar 16 05:50:04 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 16 05:37:34 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.192 ng/ul

RT: 10.47 min Scan# 2986

Delta R.T. 0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

Instrument :

BNA\_M

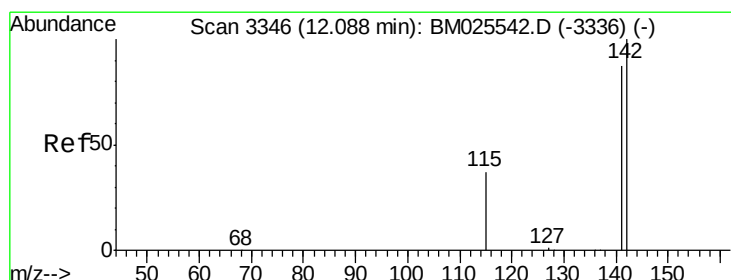
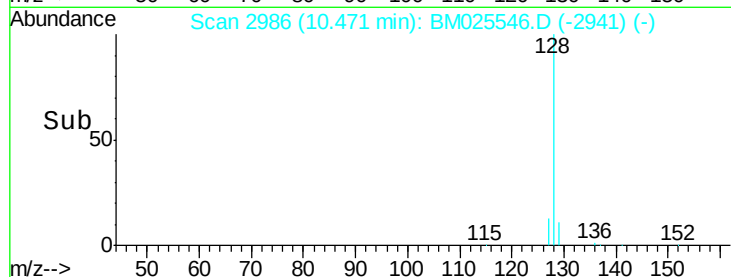
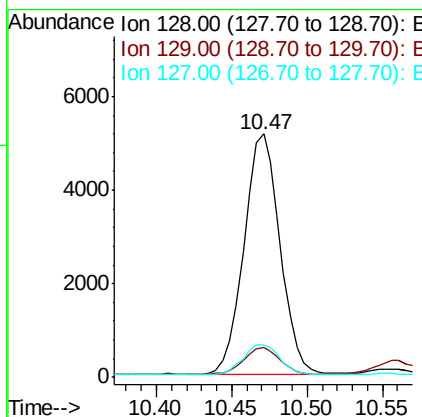
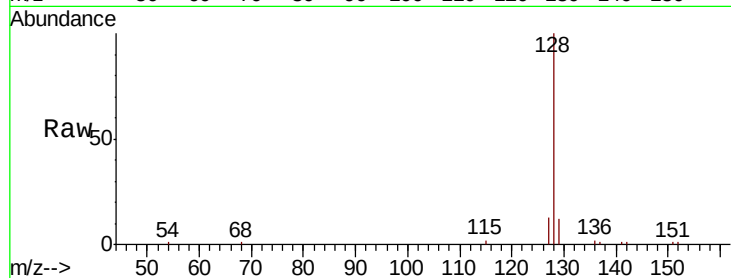
ClientSampleId :

C0AA4

|             |       |       |
|-------------|-------|-------|
| Tot Ion:128 | Resp: | 8487  |
| Ion Ratio   | Lower | Upper |
| 128 100     |       |       |
| 129 12.1    | 9.4   | 14.0  |
| 127 13.5    | 10.9  | 16.3  |

Manual Integrations  
APPROVED

mohammad  
3/16/2020 1:52:14 PM



#5

2-Methylnaphthalene

Concen: 0.057 ng/ul

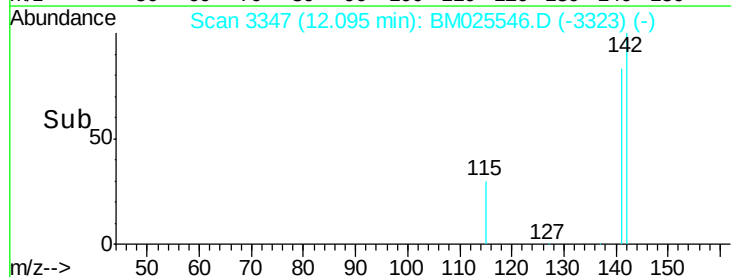
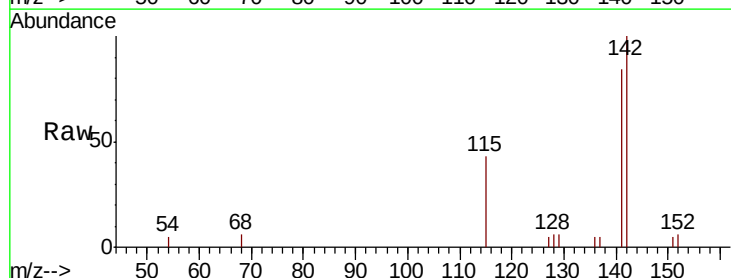
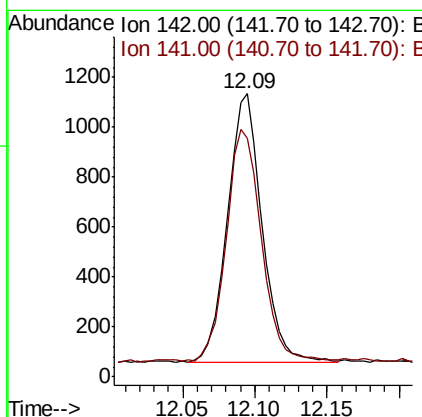
RT: 12.09 min Scan# 3347

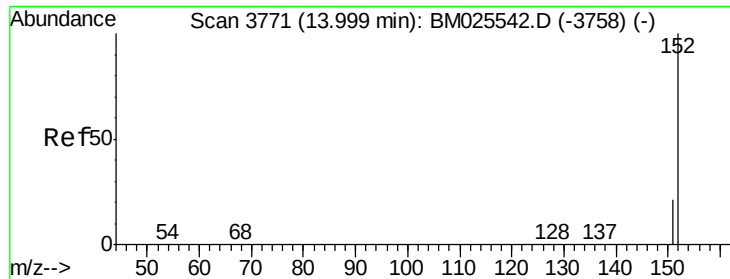
Delta R.T. 0.01 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:142 | Resp: | 1805  |
| Ion Ratio   | Lower | Upper |
| 142 100     |       |       |
| 141 88.2    | 69.8  | 104.6 |





#7

Acenaphthylene

Concen: 0.166 ng/ul

RT: 14.00 min Scan# 3771

Delta R.T. 0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

Instrument :

BNA\_M

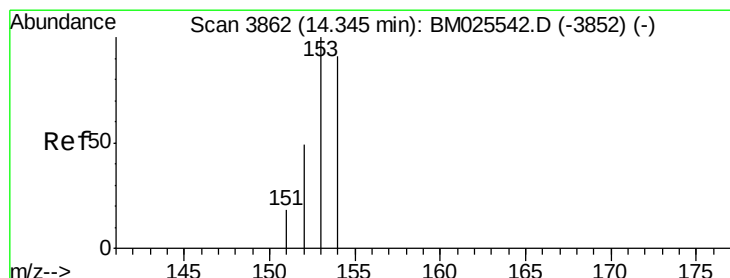
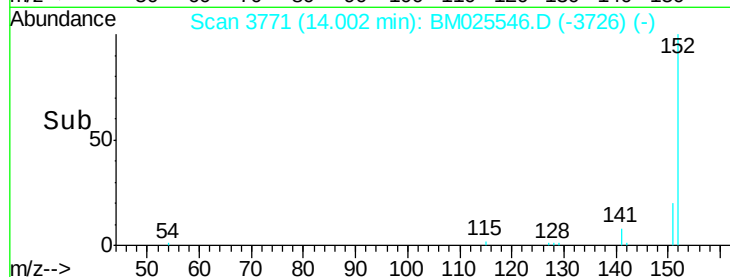
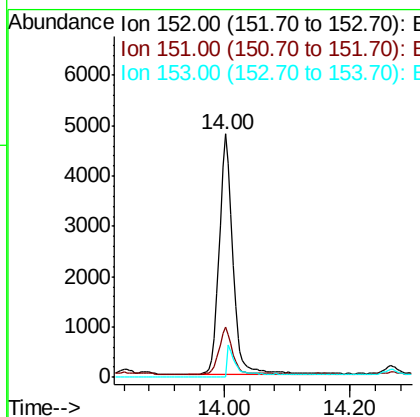
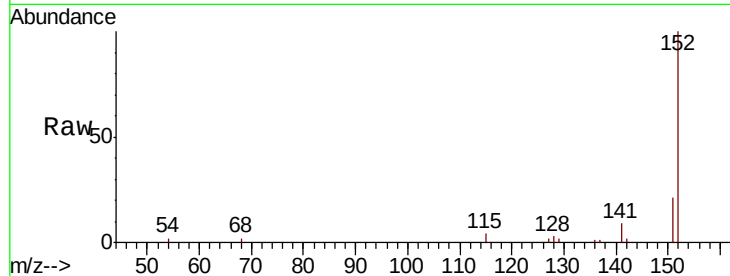
ClientSampleId :

C0AA4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.9  | 16.2  | 24.2  |
| 153     | 0.0   | 10.6  | 16.0  |

Manual Integrations  
APPROVED

mohammad  
3/16/2020 1:52:14 PM



#8

Acenaphthene

Concen: 0.212 ng/ul

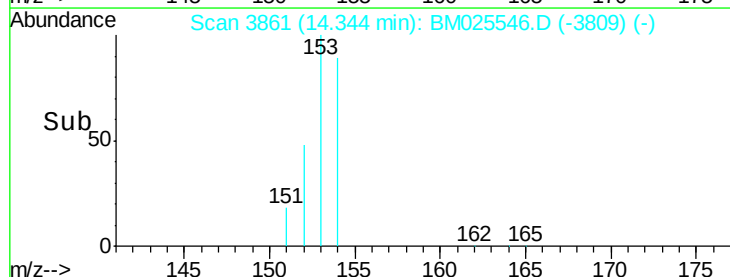
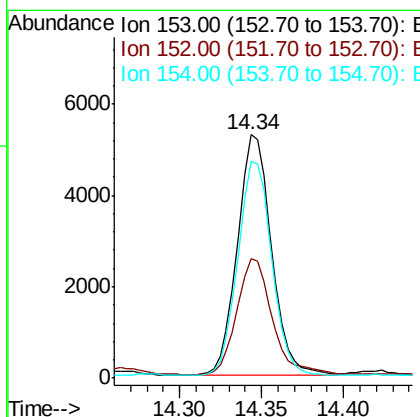
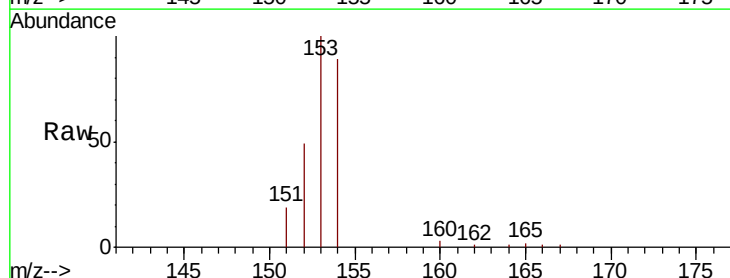
RT: 14.34 min Scan# 3861

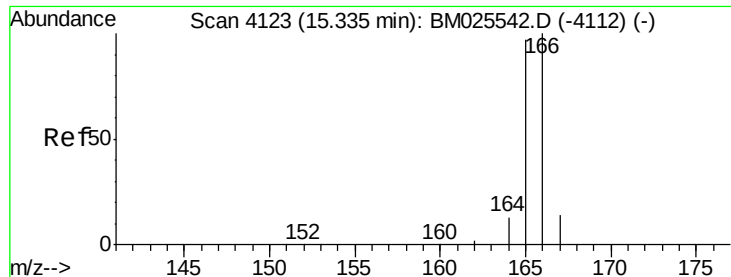
Delta R.T. -0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 49.1  | 39.5  | 59.3  |
| 154     | 89.0  | 71.7  | 107.5 |





#9

Fluorene

Concen: 0.490 ng/ul

RT: 15.33 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

Instrument :

BNA\_M

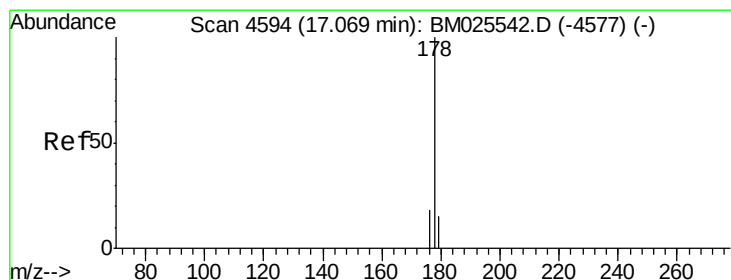
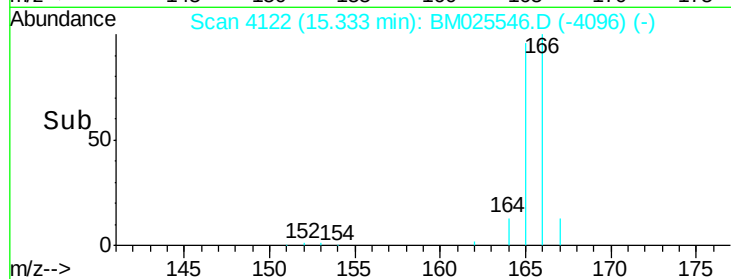
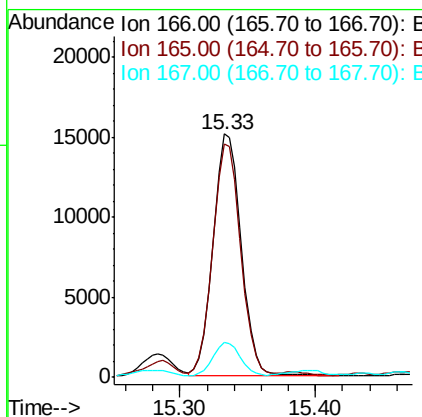
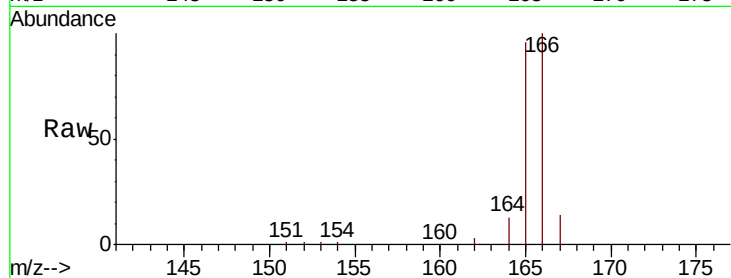
ClientSampleId :

C0AA4

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 166   | Resp: | 21544 |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 96.0  | 76.8  | 115.2 |
| 167      | 14.3  | 11.2  | 16.8  |

Manual Integrations  
APPROVED

mohammad  
3/16/2020 1:52:14 PM



#12

Phenanthrene

Concen: 2.836 ng/ul

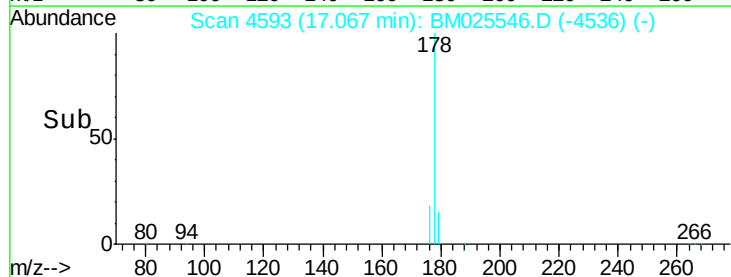
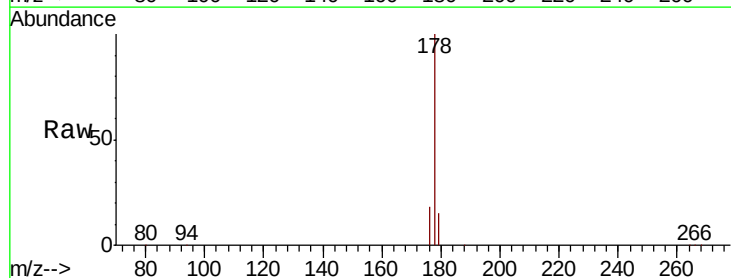
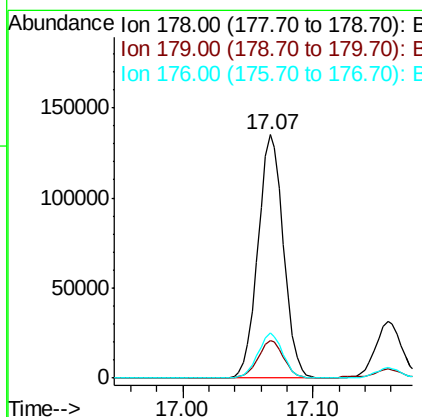
RT: 17.07 min Scan# 4593

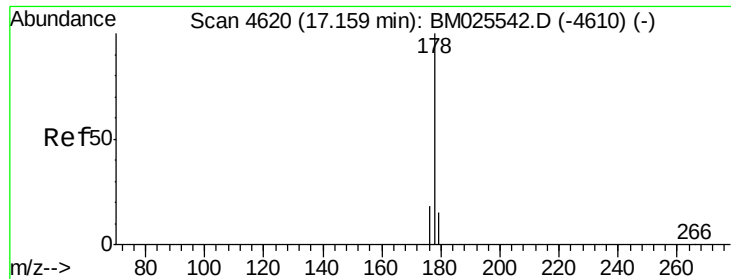
Delta R.T. -0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 178   | Resp: | 183795 |
| Ion      | Ratio | Lower | Upper  |
| 178      | 100   |       |        |
| 179      | 15.2  | 12.4  | 18.6   |
| 176      | 18.3  | 14.8  | 22.2   |





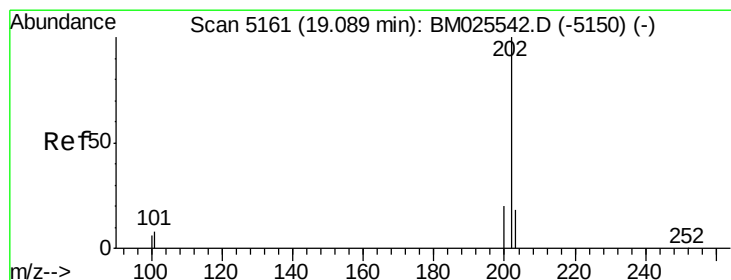
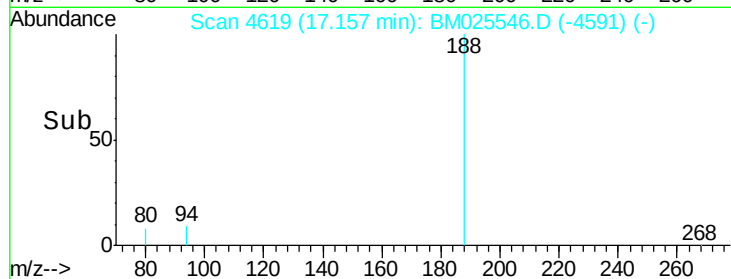
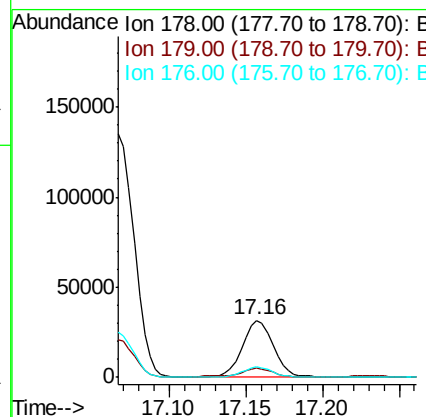
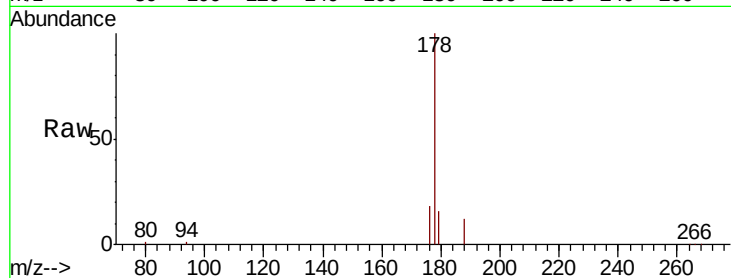
#13  
 Anthracene  
 Concen: 0.760 ng/ul  
 RT: 17.16 min Scan# 4619  
 Delta R.T. -0.00 min  
 Lab File: BM025546.D  
 Acq: 13 Mar 2020 18:11

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AA4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.8  | 12.6  | 18.8  |
| 176     | 18.0  | 14.5  | 21.7  |

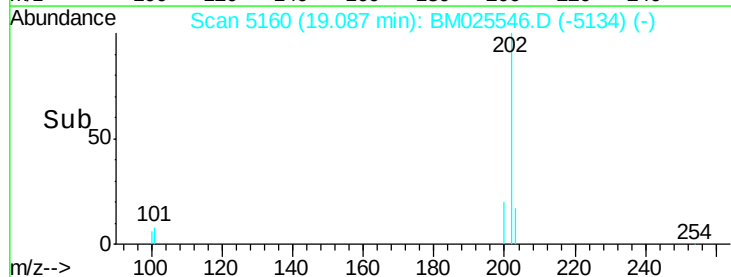
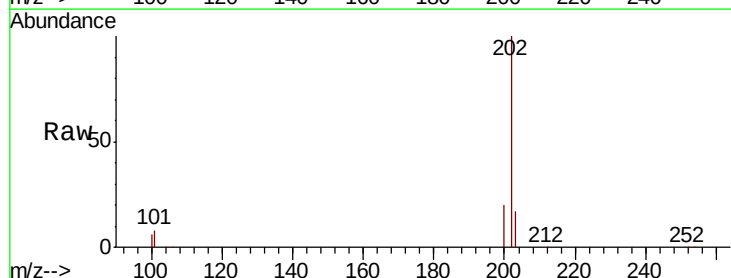
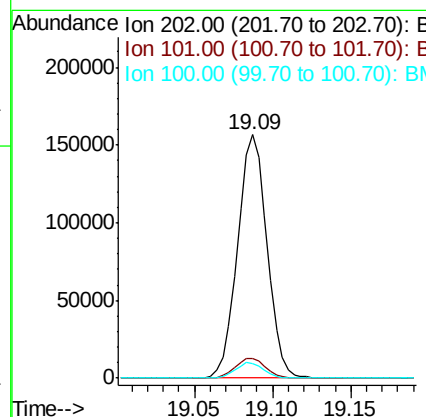
Manual Integrations  
 APPROVED

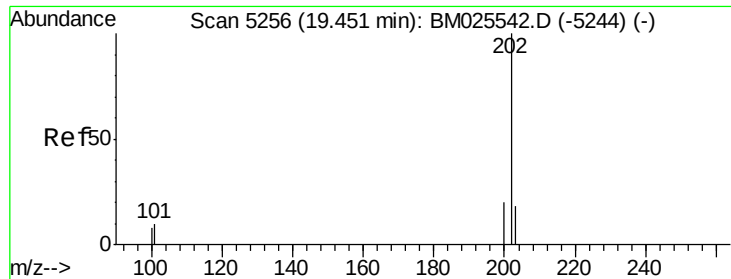
mohammad  
 3/16/2020 1:52:14 PM



#15  
 Fluoranthene  
 Concen: 2.900 ng/ul  
 RT: 19.09 min Scan# 5160  
 Delta R.T. -0.00 min  
 Lab File: BM025546.D  
 Acq: 13 Mar 2020 18:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.3   | 0.0   | 27.5  |
| 100     | 6.2   | 0.0   | 26.0  |





#17

Pvrene

Concen: 1.916 ng/ul

RT: 19.45 min Scan# 5255

Delta R.T. -0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

Instrument :

BNA\_M

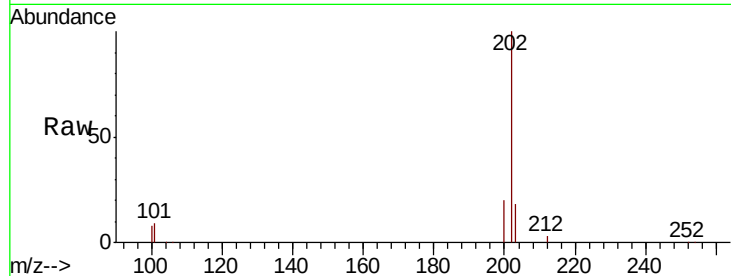
ClientSampled :

C0AA4

|           |     |       |        |
|-----------|-----|-------|--------|
| Tot Ion:  | 202 | Resp: | 141104 |
| Ion Ratio |     | Lower | Upper  |
| 202       | 100 |       |        |
| 101       | 9.3 | 7.1   | 10.7   |
| 100       | 7.7 | 6.0   | 9.0    |

Manual Integrations  
APPROVED

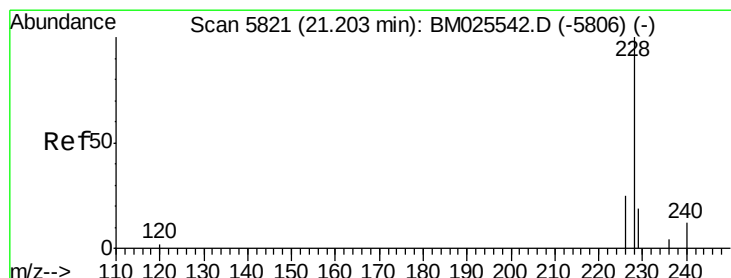
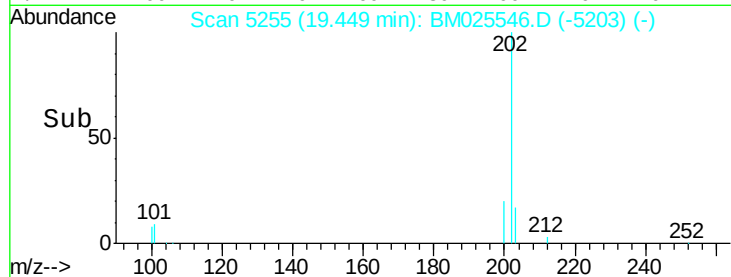
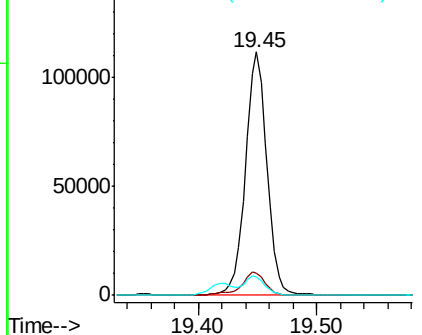
mohammad  
3/16/2020 1:52:14 PM



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: 1.265 ng/ul

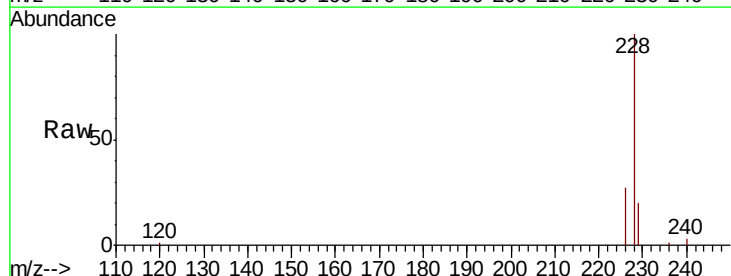
RT: 21.20 min Scan# 5819

Delta R.T. -0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

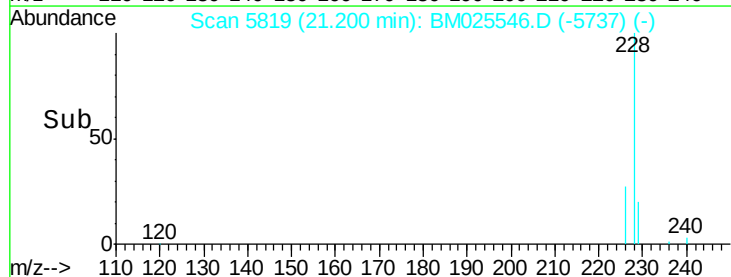
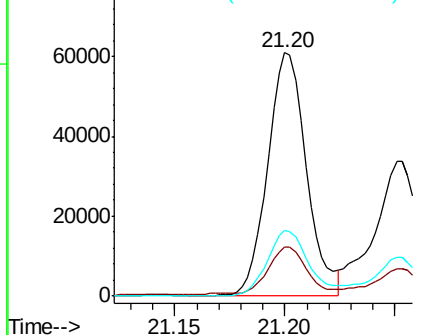
|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 228  | Resp: | 74210 |
| Ion Ratio |      | Lower | Upper |
| 228       | 100  |       |       |
| 229       | 20.1 | 15.6  | 23.4  |
| 226       | 26.8 | 21.1  | 31.7  |

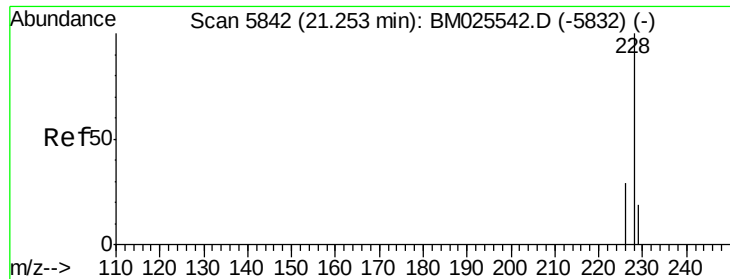


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 0.717 ng/ul

RT: 21.25 min Scan# 5840

Delta R.T. -0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

Instrument :

BNA\_M

ClientSampleId :

C0AA4

Tot Ion:228 Resp: 47232

Ion Ratio Lower Upper

228 100

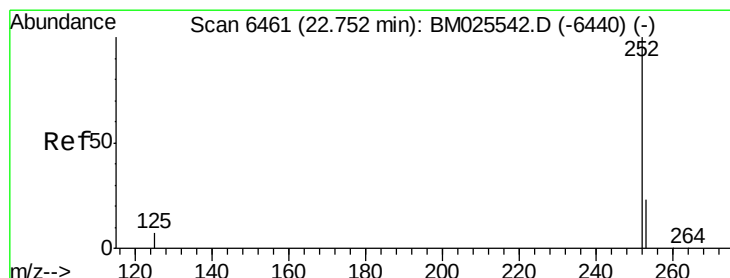
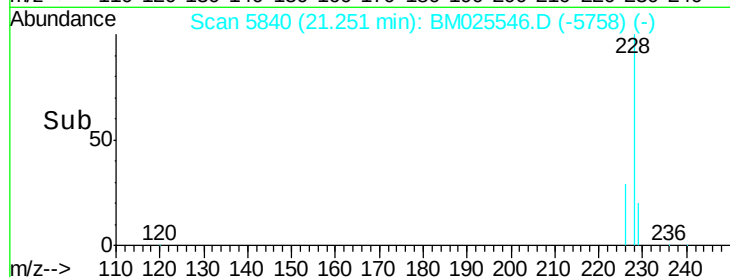
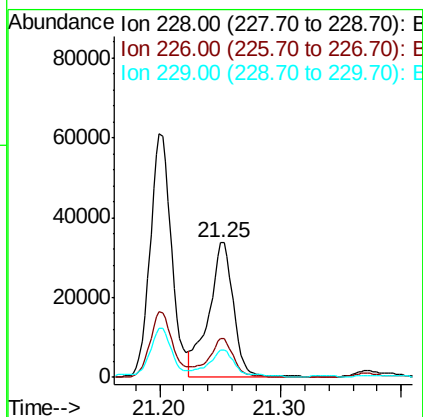
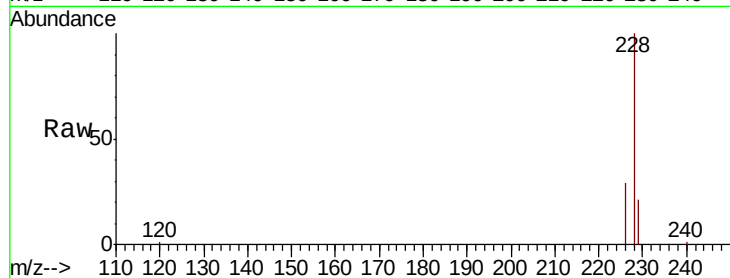
226 29.0 23.6 35.4

229 20.7 16.3 24.5

Manual Integrations  
APPROVED

mohammad

3/16/2020 1:52:14 PM



#21

Benzo(b)fluoranthene

Concen: 0.922 ng/ul m

RT: 22.75 min Scan# 6461

Delta R.T. 0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

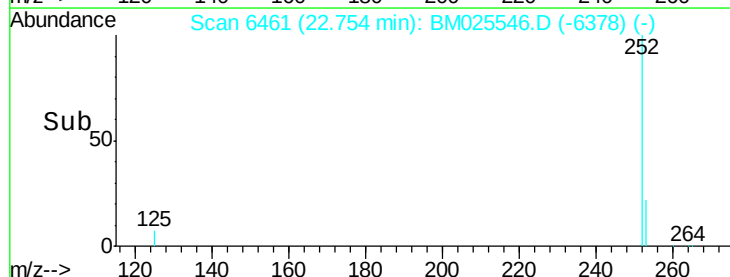
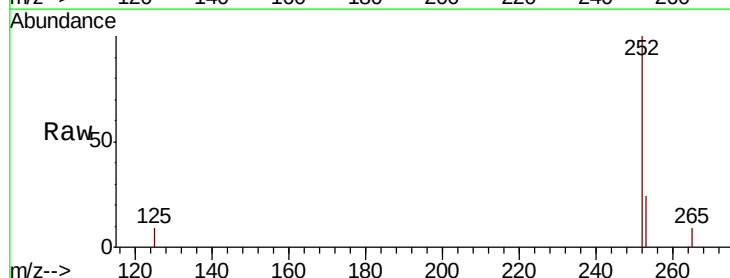
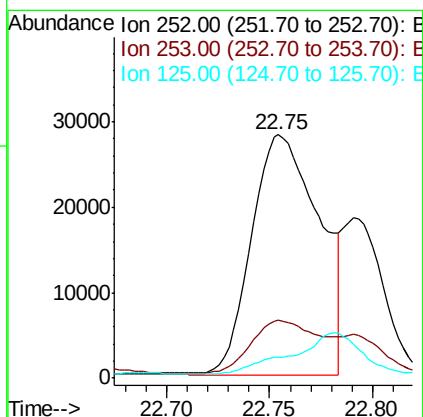
Tgt Ion:252 Resp: 64921

Ion Ratio Lower Upper

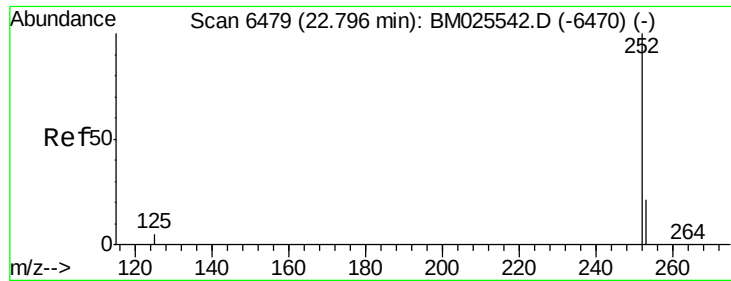
252 100

253 24.0 0.0 50.2

125 8.8 0.0 17.6







#22

Benzo(k)fluoranthene

Concen: 0.360 ng/ul m

RT: 22.79 min Scan# 6476

Delta R.T. -0.01 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

Instrument :

BNA\_M

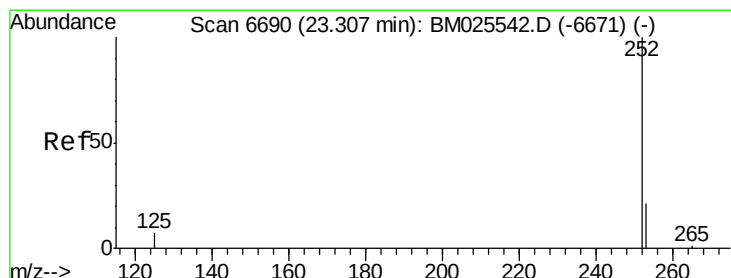
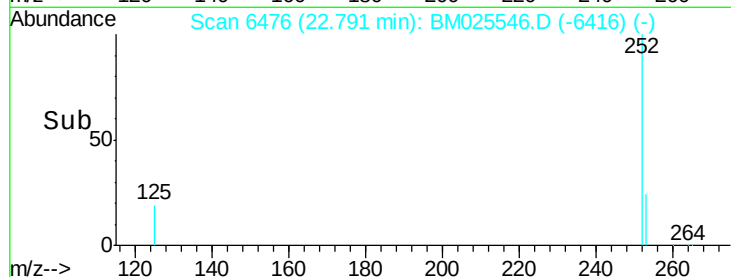
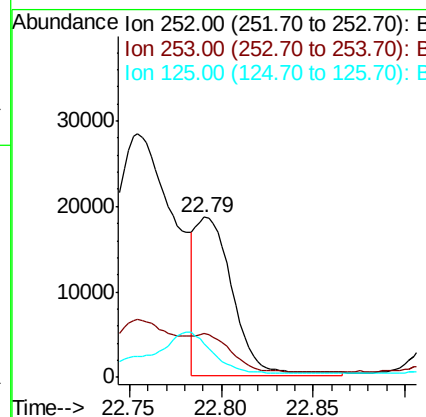
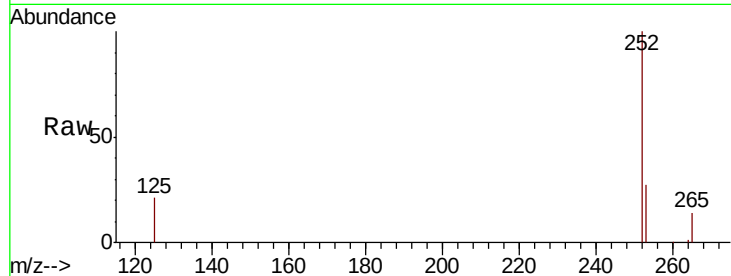
ClientSampleId :

C0AA4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 26585 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.1  | 19.8  | 29.8  |
| 125       | 21.2  | 7.1   | 10.7# |

Manual Integrations  
APPROVED

mohammad  
3/16/2020 1:52:14 PM



#23

Benzo(a)pyrene

Concen: 0.784 ng/ul

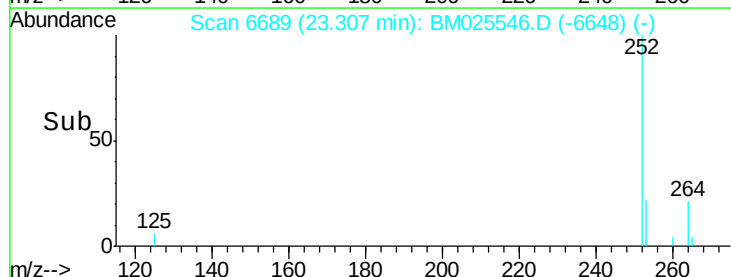
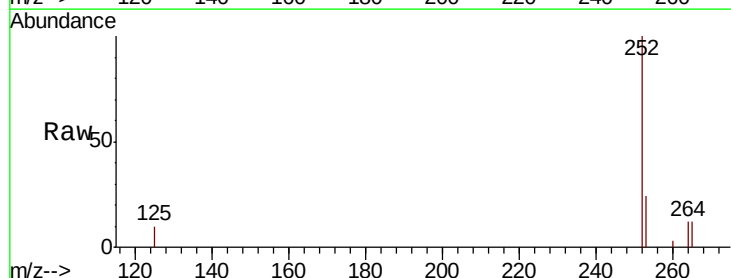
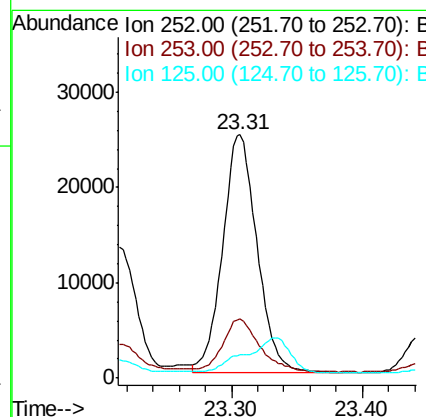
RT: 23.31 min Scan# 6689

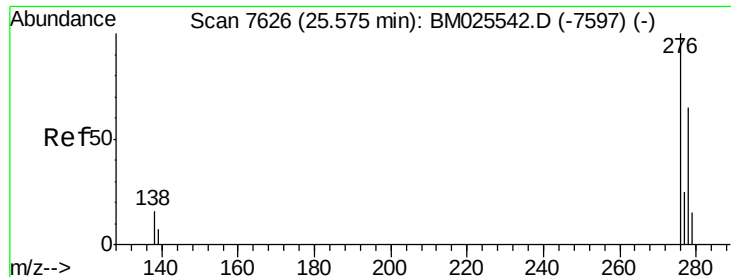
Delta R.T. -0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 45842 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.1  | 21.3  | 31.9  |
| 125       | 9.8   | 8.5   | 12.7  |





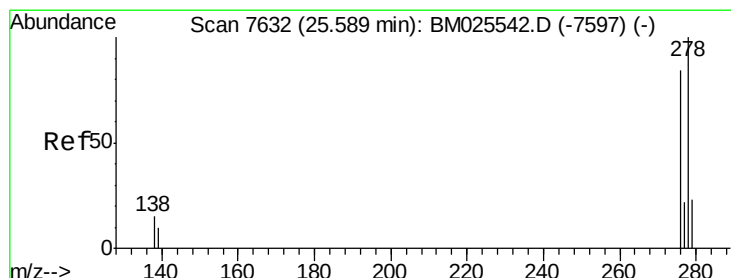
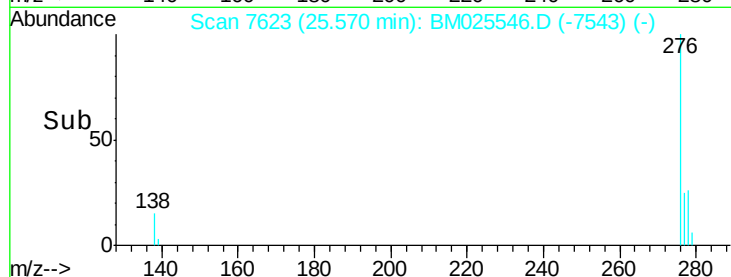
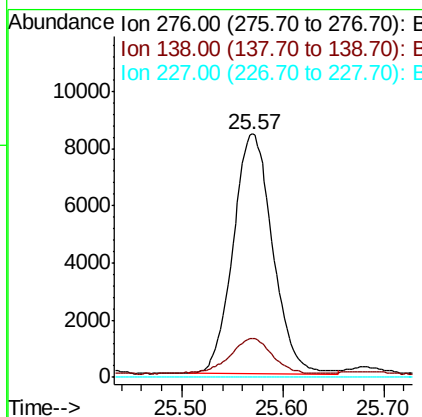
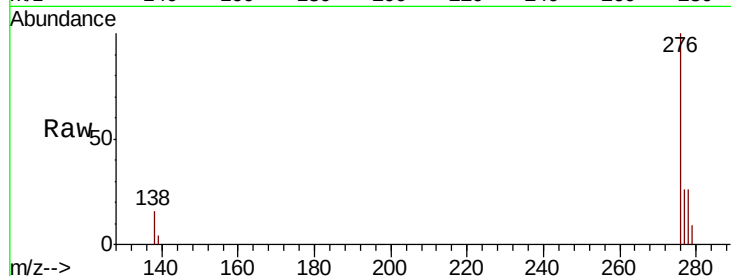
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.287 ng/ul  
 RT: 25.57 min Scan# 7623  
 Delta R.T. -0.01 min  
 Lab File: BM025546.D  
 Acq: 13 Mar 2020 18:11

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AA4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.0  | 12.3  | 18.5  |
| 227     | 0.0   | 0.0   | 0.0   |

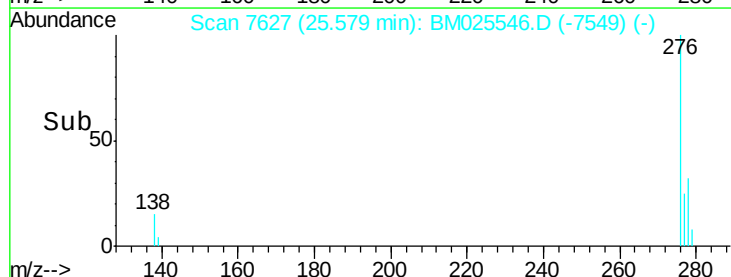
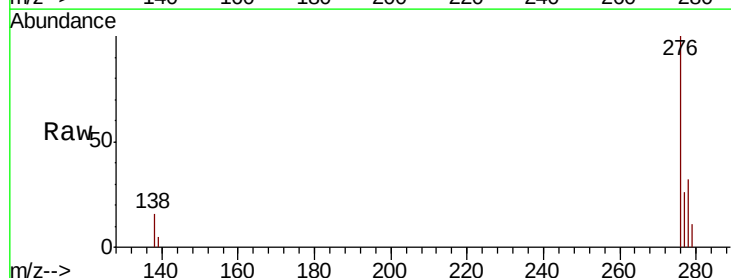
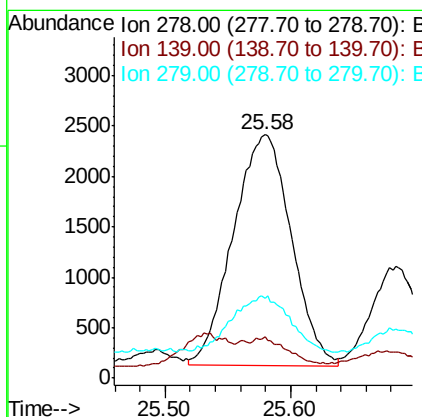
Manual Integrations  
 APPROVED

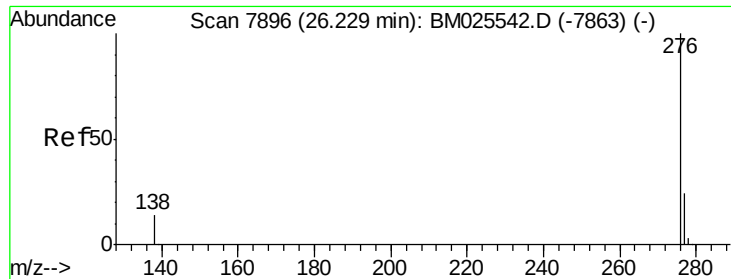
mohammad  
 3/16/2020 1:52:14 PM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.110 ng/ul  
 RT: 25.58 min Scan# 7627  
 Delta R.T. -0.01 min  
 Lab File: BM025546.D  
 Acq: 13 Mar 2020 18:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 16.9  | 9.0   | 13.6# |
| 279     | 32.8  | 21.1  | 31.7# |





#26

Benzo(a,h,i)perylene

Concen: 0.194 ng/ul

RT: 26.23 min Scan# 7897

Delta R.T. 0.00 min

Lab File: BM025546.D

Acq: 13 Mar 2020 18:11

Instrument :

BNA\_M

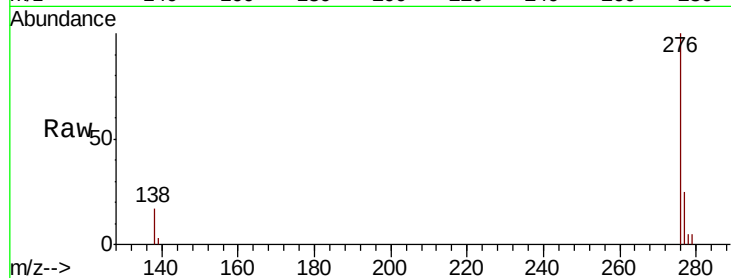
ClientSampleId :

C0AA4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.6  | 11.0  | 16.4# |
| 277     | 25.1  | 19.8  | 29.6  |

Manual Integrations  
APPROVED

mohammad  
3/16/2020 1:52:14 PM



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

