

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112520\  
 Data File : BM027982.D  
 Acq On : 26 Nov 2020 02:51  
 Operator : JU/CG  
 Sample : L4749-14  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B13

Manual Integrations  
 APPROVED

mohammad  
 11/27/2020 11:44:28 AM

Quant Time: Nov 26 05:17:15 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 25 10:43:32 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.32  | 152  | 910      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.15 | 136  | 3759     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.94 | 164  | 2246     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.65 | 188  | 4273     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.75 | 240  | 2513     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.17 | 264  | 2304     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.72 | 152  | 1525     | 0.24   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.64 | 212  | 2700     | 0.24   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 11.20 | 128  | 5496     | 0.488  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.79 | 142  | 2698     | 0.352  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.66 | 152  | 2903     | 0.265  | ng/ul  | 97       |
| 8) Acenaphthene             | 15.00 | 153  | 16849    | 2.052  | ng/ul  | 99       |
| 9) Fluorene                 | 15.97 | 166  | 11801    | 1.239  | ng/ul  | 100      |
| 12) Phenanthrene            | 17.69 | 178  | 195031   | 14.449 | ng/ul  | 97       |
| 13) Anthracene              | 17.78 | 178  | 38470    | 2.955  | ng/ul  | 98       |
| 15) Fluoranthene            | 19.67 | 202  | 310246   | 20.729 | ng/ul  | 99       |
| 17) Pyrene                  | 20.03 | 202  | 243465   | 19.076 | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.74 | 228  | 105326   | 10.388 | ng/ul  | 100      |
| 19) Chrysene                | 21.79 | 228  | 104297   | 10.561 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 23.44 | 252  | 124429m  | 12.850 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.48 | 252  | 44717m   | 4.716  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.06 | 252  | 84518    | 9.983  | ng/ul# | 84       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.66 | 276  | 57286    | 6.250  | ng/ul# | 97       |
| 25) Dibenzo(a,h)anthracene  | 26.66 | 278  | 13820    | 1.811  | ng/ul  | 94       |
| 26) Benzo(a,h,i)perylene    | 27.43 | 276  | 50128    | 6.518  | ng/ul  | 93       |

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

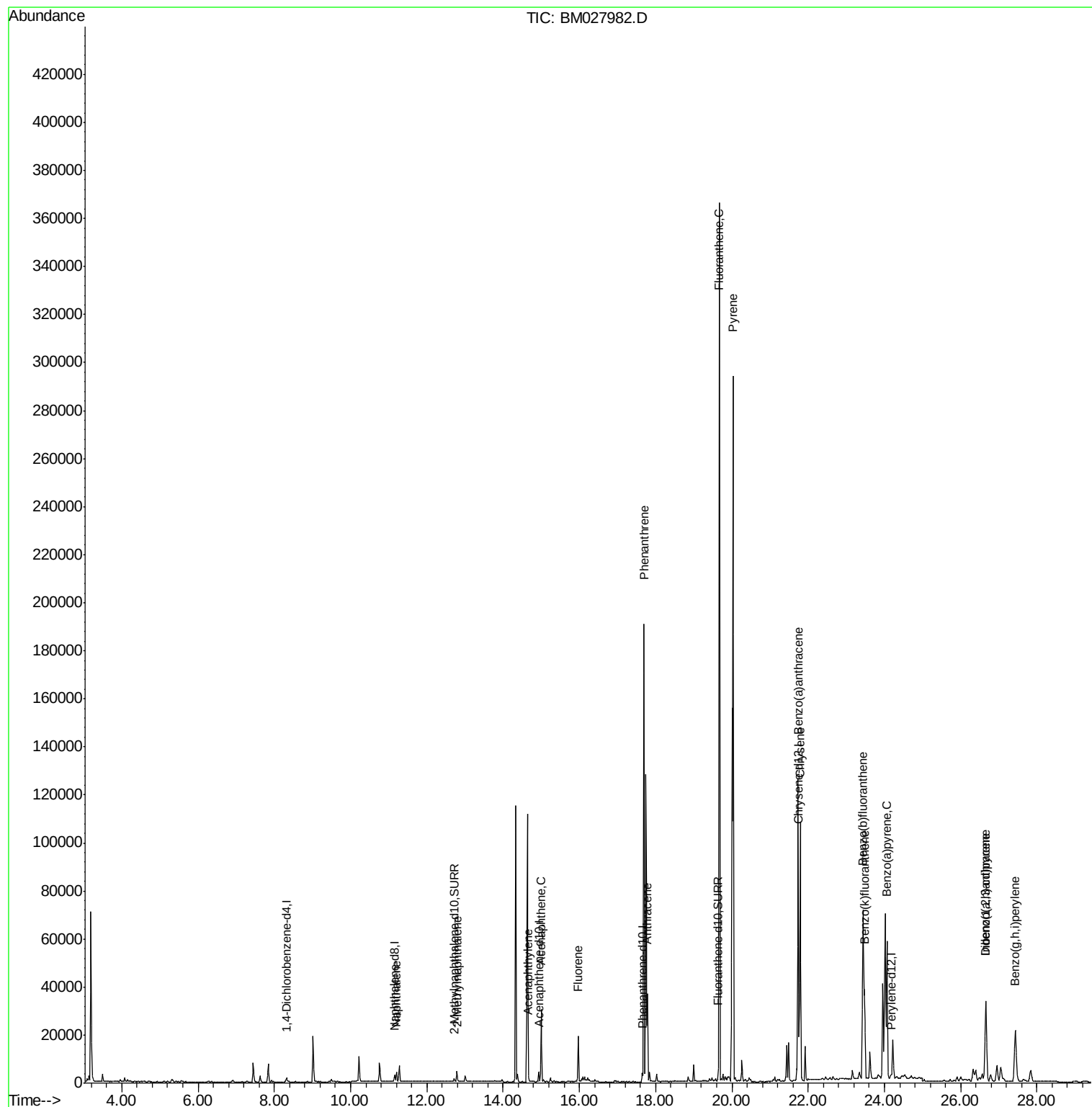
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112520\  
Data File : BM027982.D  
Acq On : 26 Nov 2020 02:51  
Operator : JU/CG  
Sample : L4749-14  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

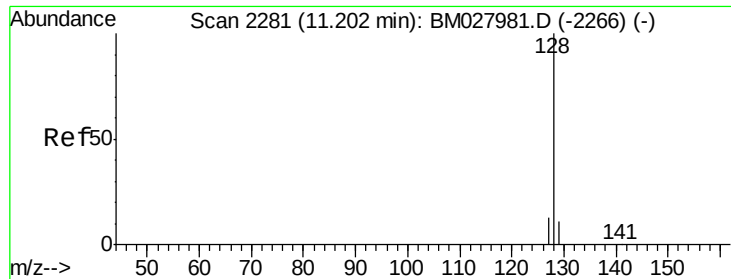
Instrument :  
BNA\_M  
ClientSampleId :  
C0B13

Manual Integrations  
APPROVED

mohammad  
11/27/2020 11:44:28 AM

Quant Time: Nov 26 05:17:15 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 25 10:43:32 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.488 ng/ul

RT: 11.20 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BM027982.D

Acq: 26 Nov 2020 02:51

Instrument :

BNA\_M

ClientSampleId :

C0B13

Tot Ion:128 Resp: 5496

Ion Ratio Lower Upper

128 100

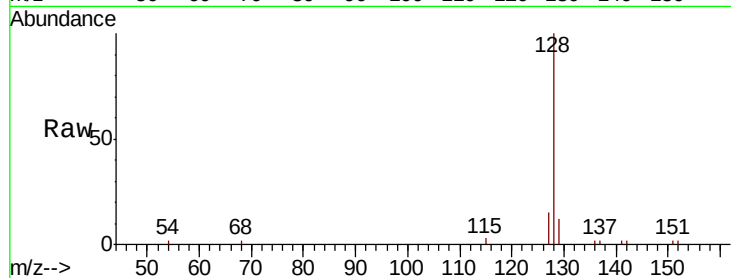
129 12.5 10.4 15.6

127 14.6 12.0 18.0

Manual Integrations  
APPROVED

mohammad

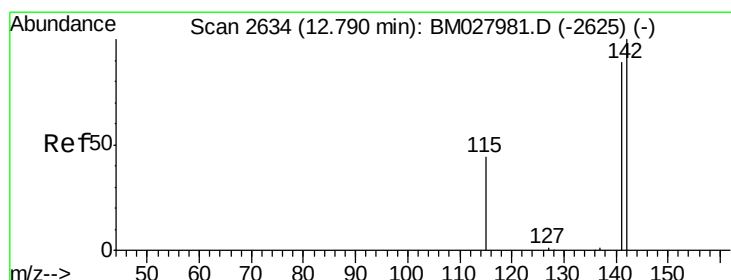
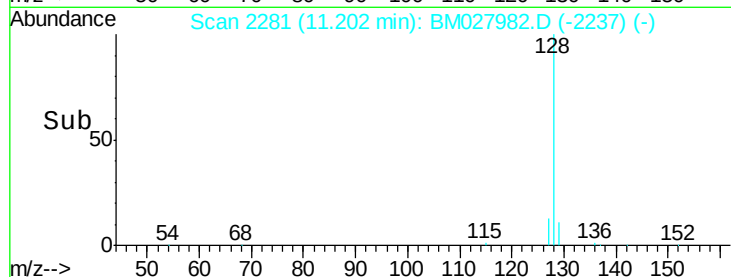
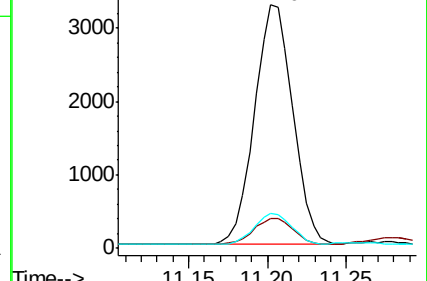
11/27/2020 11:44:28 AM



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: 0.352 ng/ul

RT: 12.79 min Scan# 2634

Delta R.T. -0.00 min

Lab File: BM027982.D

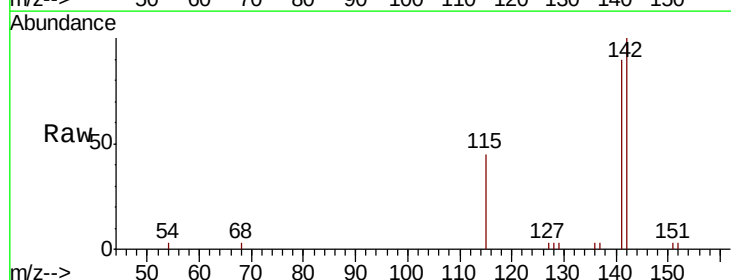
Acq: 26 Nov 2020 02:51

Tgt Ion:142 Resp: 2698

Ion Ratio Lower Upper

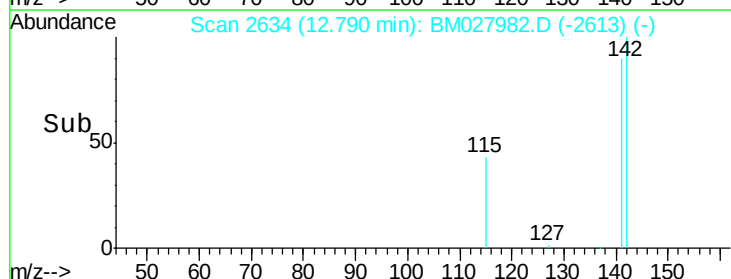
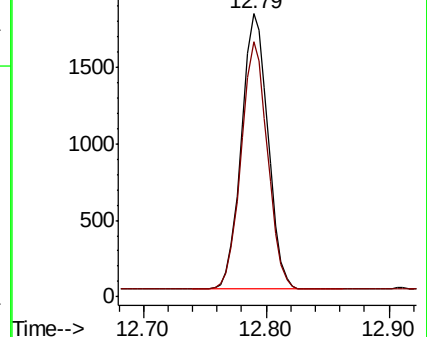
142 100

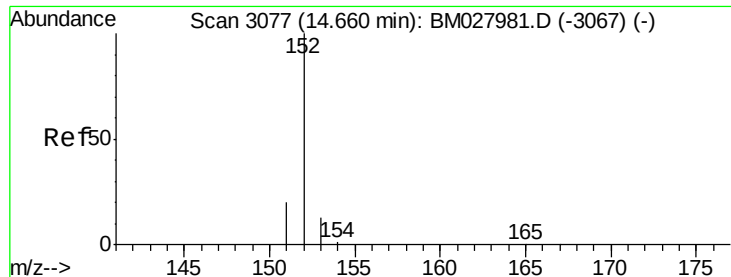
141 89.0 71.6 107.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.265 ng/ul

RT: 14.66 min Scan# 3078

Delta R.T. 0.00 min

Lab File: BM027982.D

Acq: 26 Nov 2020 02:51

Instrument :

BNA\_M

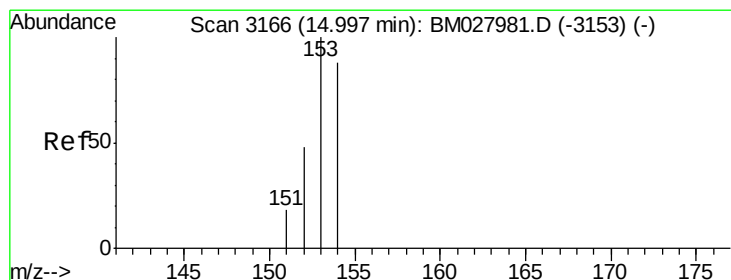
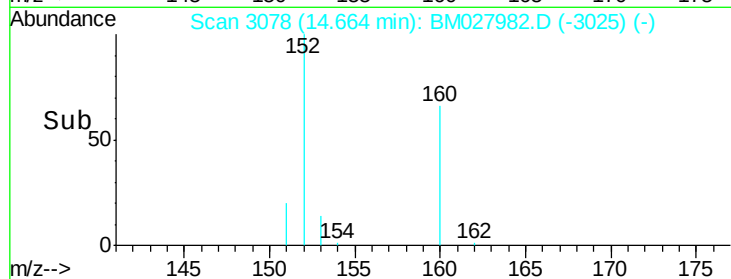
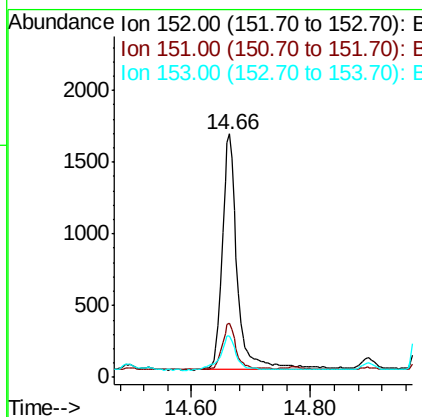
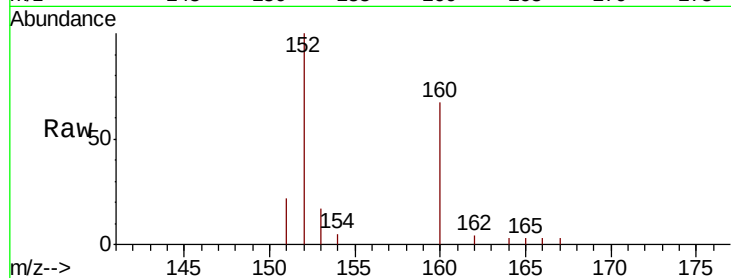
ClientSampleId :

C0B13

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 2903  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 22.1  | 17.1  | 25.7  |
| 153      | 16.8  | 12.0  | 18.0  |

Manual Integrations  
APPROVED

mohammad  
11/27/2020 11:44:28 AM



#8

Acenaphthene

Concen: 2.052 ng/ul

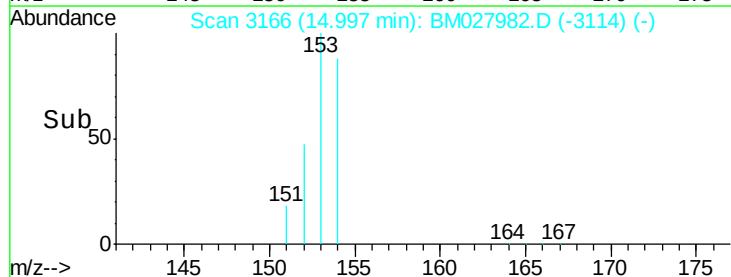
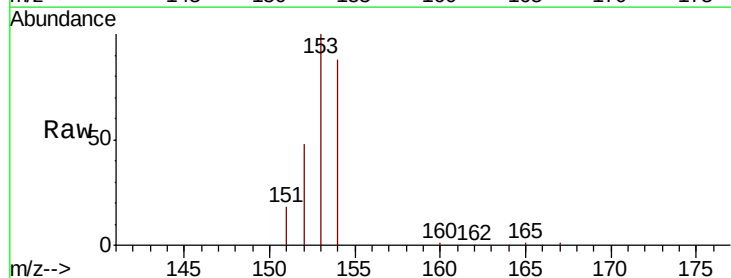
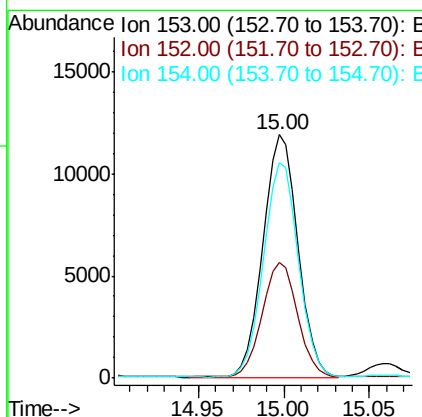
RT: 15.00 min Scan# 3166

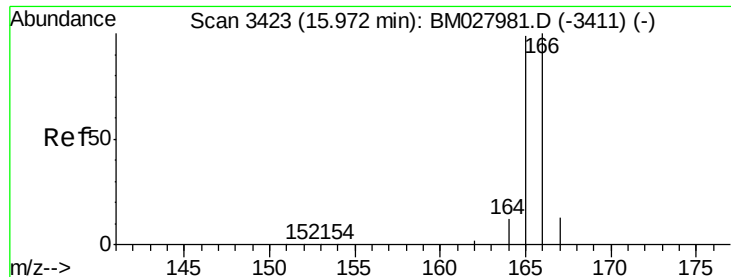
Delta R.T. -0.00 min

Lab File: BM027982.D

Acq: 26 Nov 2020 02:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 16849 |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 47.7  | 39.0  | 58.6  |
| 154      | 88.3  | 71.6  | 107.4 |





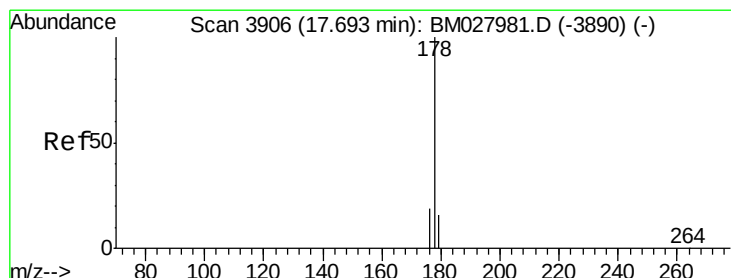
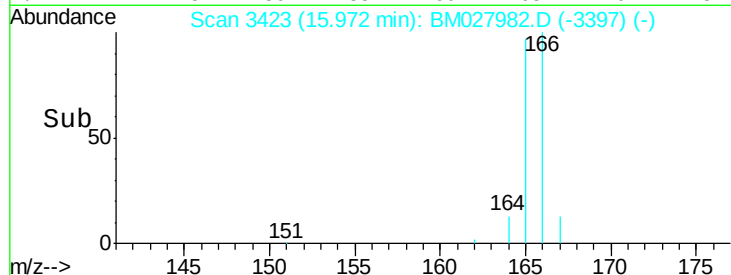
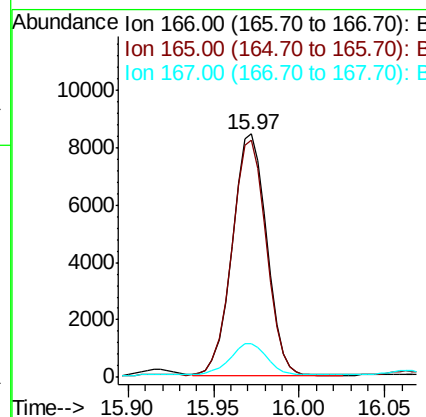
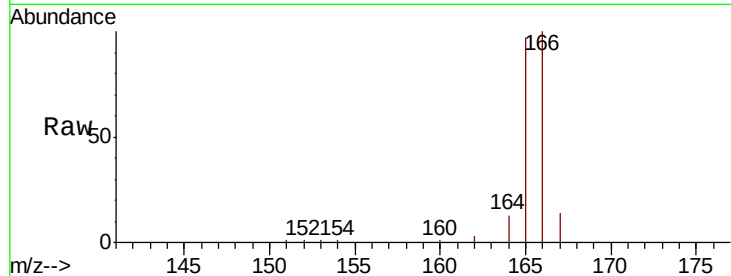
#9  
**Fluorene**  
 Concen: 1.239 ng/ul  
 RT: 15.97 min Scan# 3423  
 Delta R.T. 0.00 min  
 Lab File: BM027982.D  
 Acq: 26 Nov 2020 02:51

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B13

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.4  | 78.1  | 117.1 |
| 167     | 13.9  | 11.8  | 17.8  |

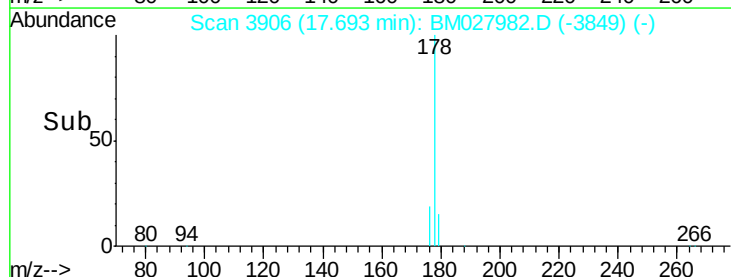
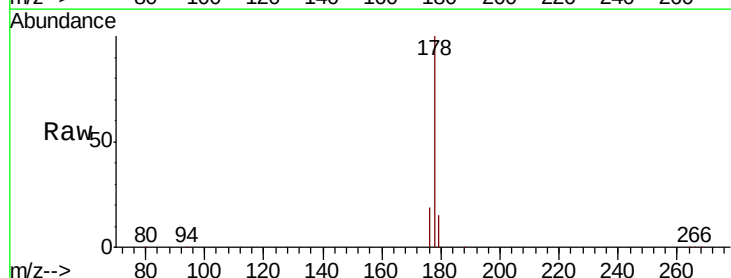
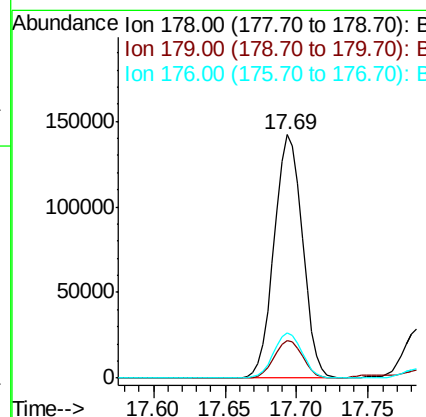
Manual Integrations  
 APPROVED

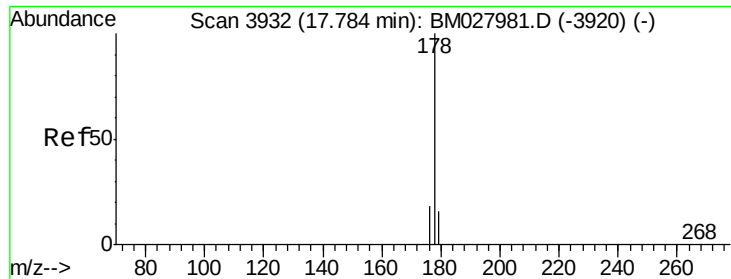
mohammad  
 11/27/2020 11:44:28 AM



#12  
**Phenanthrene**  
 Concen: 14.449 ng/ul  
 RT: 17.69 min Scan# 3906  
 Delta R.T. -0.00 min  
 Lab File: BM027982.D  
 Acq: 26 Nov 2020 02:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 13.6  | 20.4  |
| 176     | 18.8  | 16.1  | 24.1  |





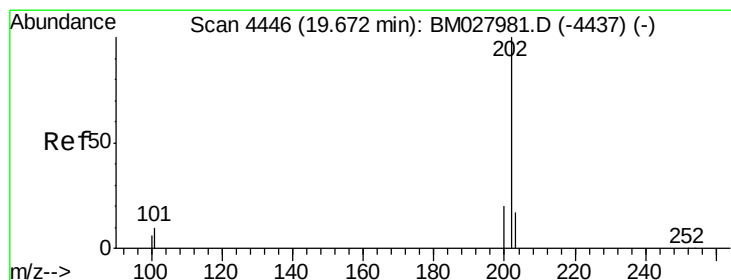
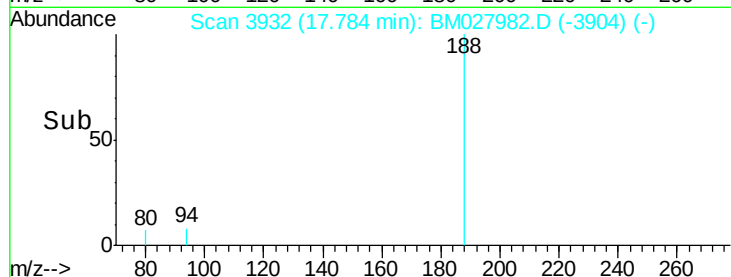
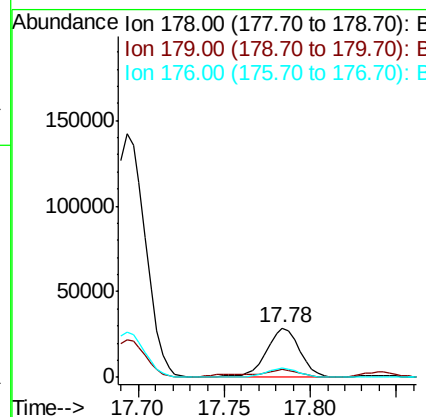
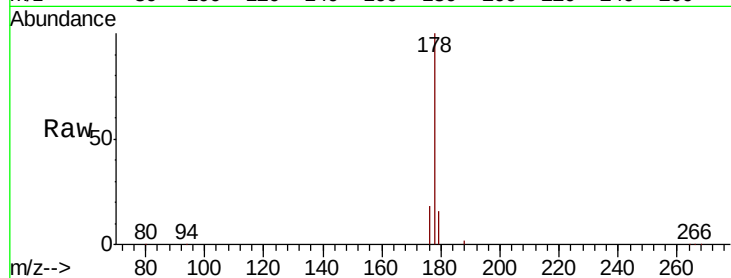
#13  
 Anthracene  
 Concen: 2.955 ng/ul  
 RT: 17.78 min Scan# 3932  
 Delta R.T. -0.00 min  
 Lab File: BM027982.D  
 Acq: 26 Nov 2020 02:51

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B13

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.7  | 13.4  | 20.2  |
| 176     | 18.3  | 15.0  | 22.6  |

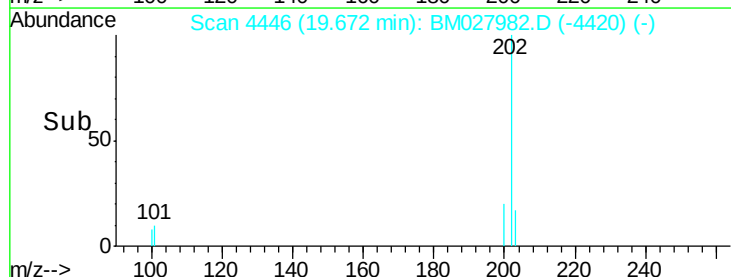
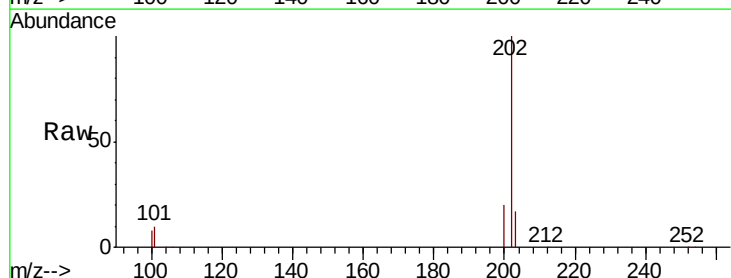
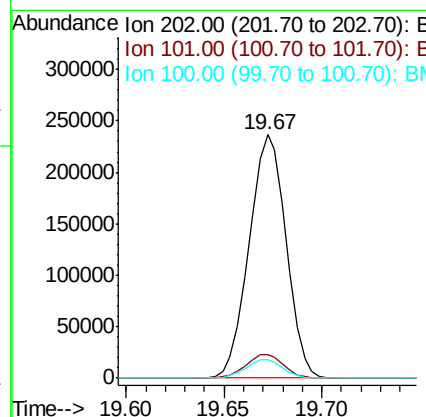
Manual Integrations  
 APPROVED

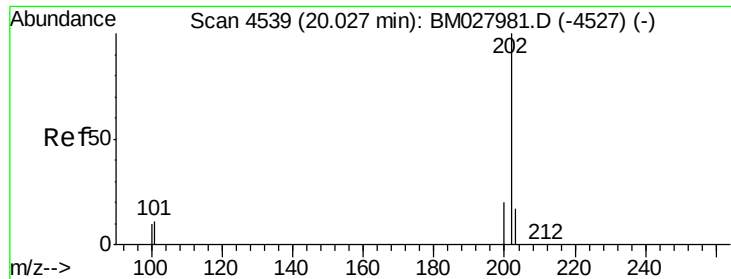
mohammad  
 11/27/2020 11:44:28 AM



#15  
 Fluoranthene  
 Concen: 20.729 ng/ul  
 RT: 19.67 min Scan# 4446  
 Delta R.T. 0.00 min  
 Lab File: BM027982.D  
 Acq: 26 Nov 2020 02:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.8   | 0.0   | 29.3  |
| 100     | 7.7   | 0.0   | 27.4  |





#17

Pvrene

Concen: 19.076 ng/ul

RT: 20.03 min Scan# 4540

Delta R.T. 0.00 min

Lab File: BM027982.D

Acq: 26 Nov 2020 02:51

Instrument :

BNA\_M

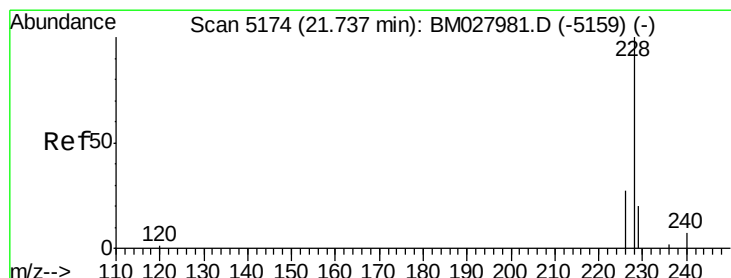
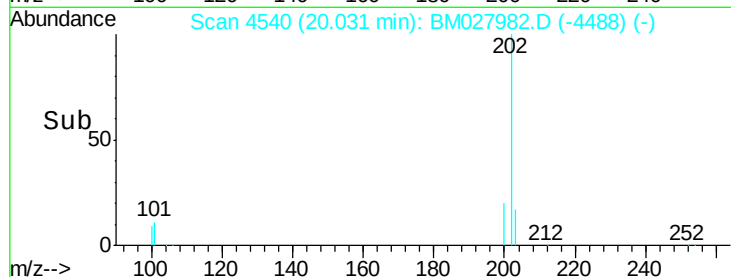
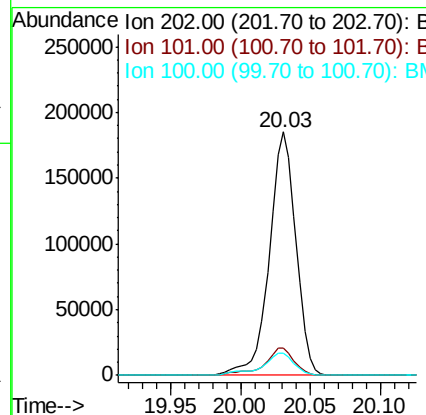
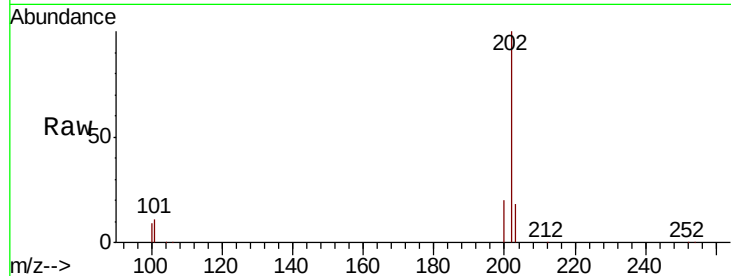
ClientSampleId :

C0B13

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.2  | 8.2        | 12.2  |
| 100     | 9.3   | 6.9        | 10.3  |

Manual Integrations  
APPROVED

mohammad  
11/27/2020 11:44:28 AM



#18

Benzo(a)anthracene

Concen: 10.388 ng/ul

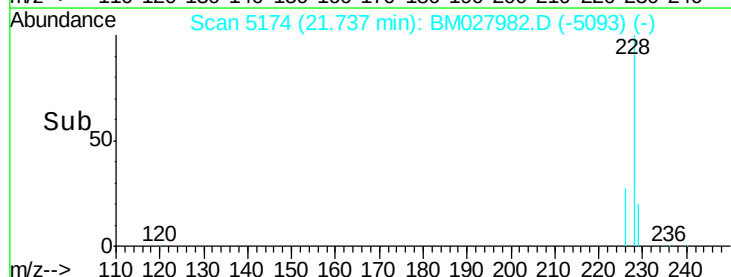
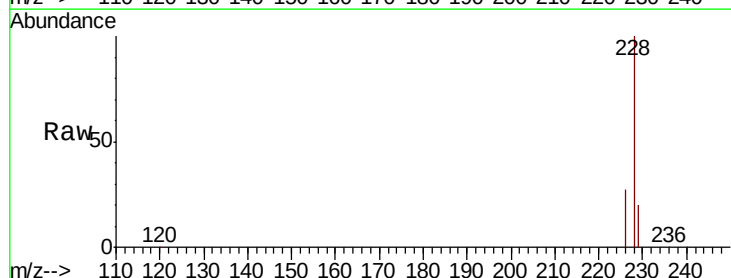
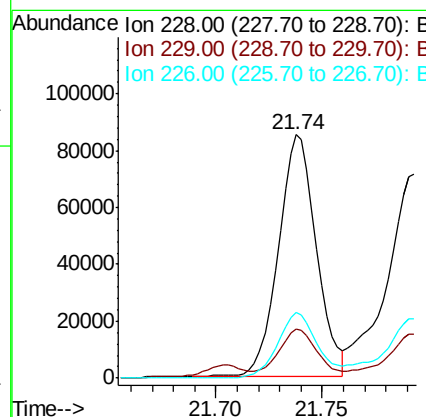
RT: 21.74 min Scan# 5174

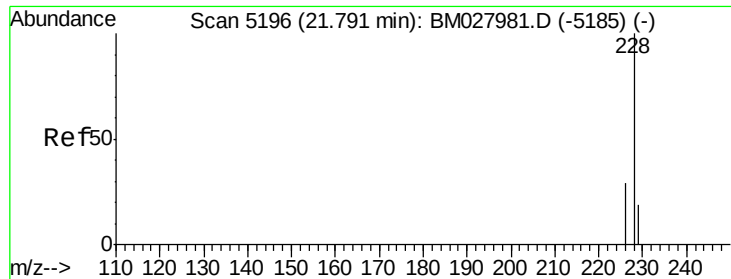
Delta R.T. -0.00 min

Lab File: BM027982.D

Acq: 26 Nov 2020 02:51

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.1  | 16.2       | 24.4  |
| 226     | 26.7  | 21.5       | 32.3  |





#19

Chrysene

Concen: 10.561 ng/ul

RT: 21.79 min Scan# 5197

Delta R.T. -0.00 min

Lab File: BM027982.D

Acq: 26 Nov 2020 02:51

Instrument :

BNA\_M

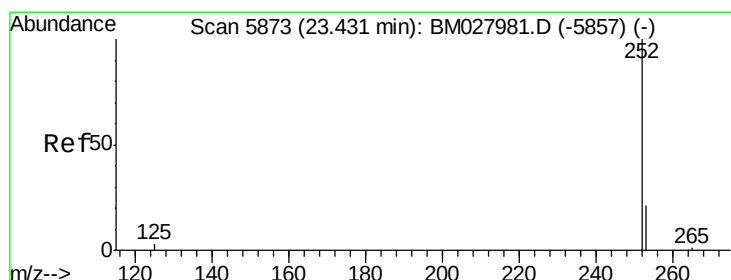
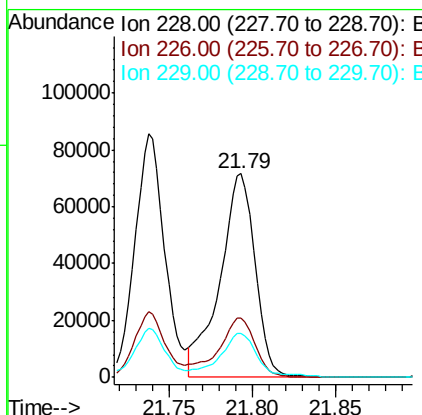
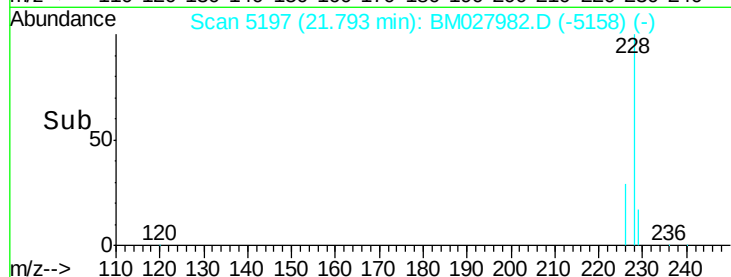
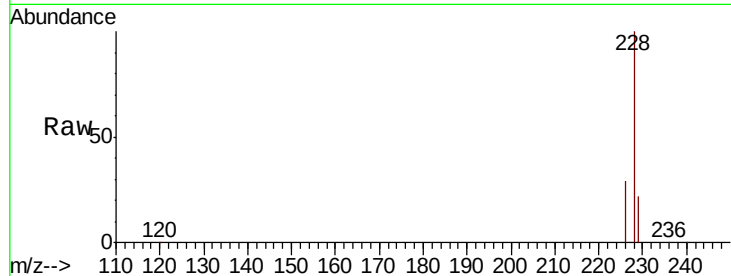
ClientSampled :

C0B13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 104297 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.3  | 24.1  | 36.1   |
| 229       | 21.9  | 16.6  | 24.8   |

Manual Integrations  
APPROVED

mohammad  
11/27/2020 11:44:28 AM



#21

Benzo(b)fluoranthene

Concen: 12.850 ng/ul m

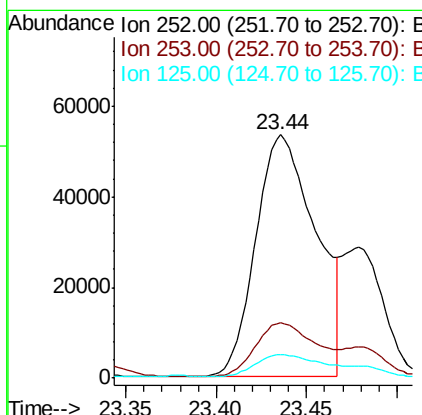
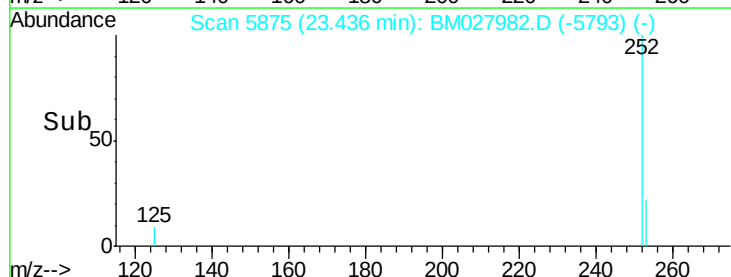
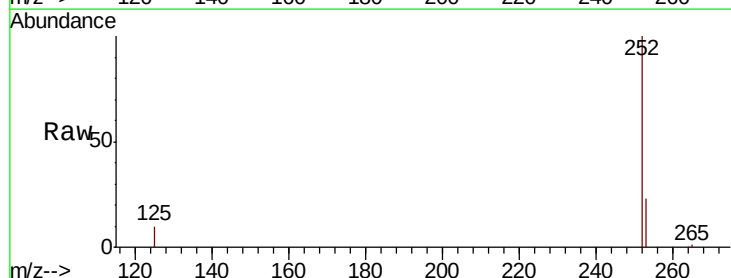
RT: 23.44 min Scan# 5875

Delta R.T. -0.00 min

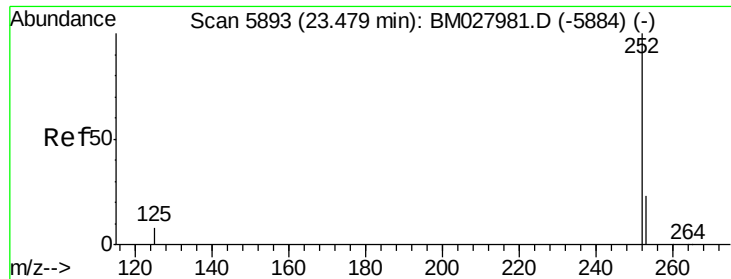
Lab File: BM027982.D

Acq: 26 Nov 2020 02:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 124429 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 0.0   | 59.6   |
| 125       | 9.7   | 0.0   | 28.4   |







#22

Benzo(k)fluoranthene

Concen: 4.716 ng/ul

RT: 23.48 min Scan# 5893

Delta R.T. -0.01 min

Lab File: BM027982.D

Acq: 26 Nov 2020 02:51

Instrument :

BNA\_M

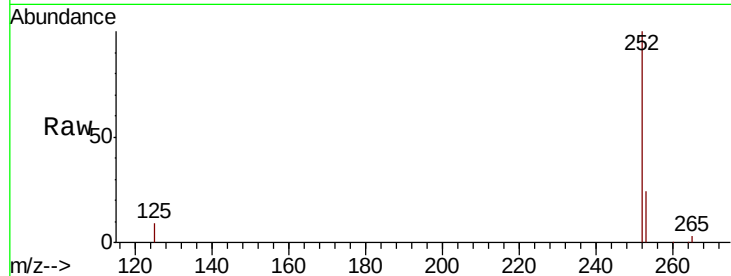
ClientSampleId :

C0B13

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 23.2  | 34.8  |
| 125     | 9.3   | 11.8  | 17.6# |

Manual Integrations  
APPROVED

mohammad  
11/27/2020 11:44:28 AM

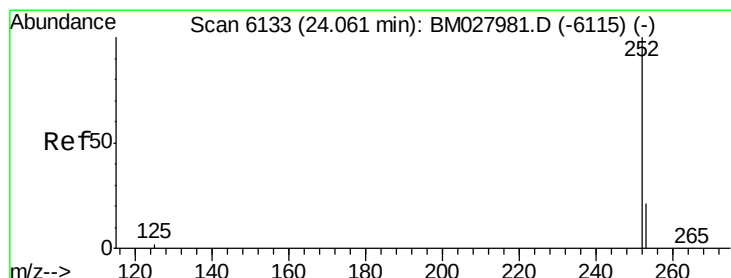
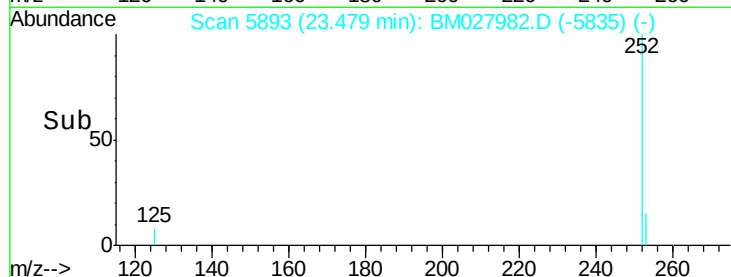
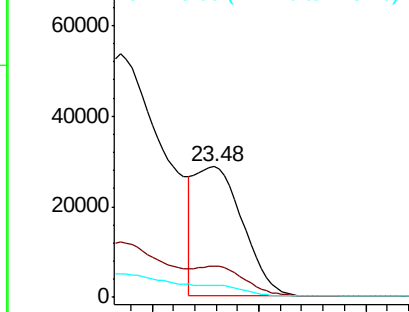


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#23

Benzo(a)pyrene

Concen: 9.983 ng/ul

RT: 24.06 min Scan# 6134

Delta R.T. -0.01 min

Lab File: BM027982.D

Acq: 26 Nov 2020 02:51

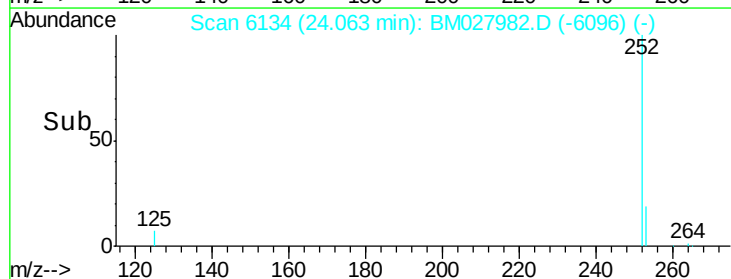
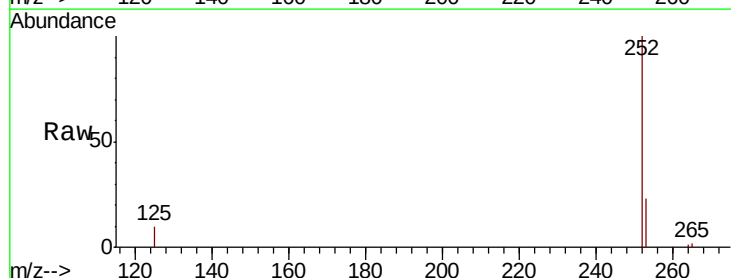
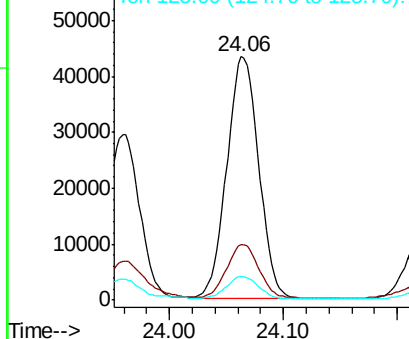
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 25.2  | 37.8# |
| 125     | 9.8   | 13.8  | 20.6# |

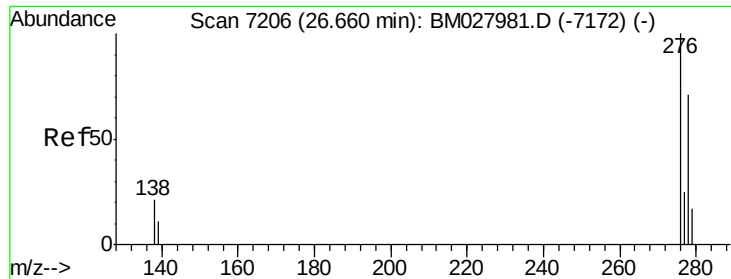
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





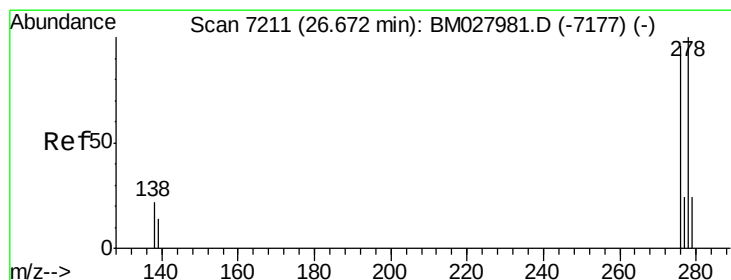
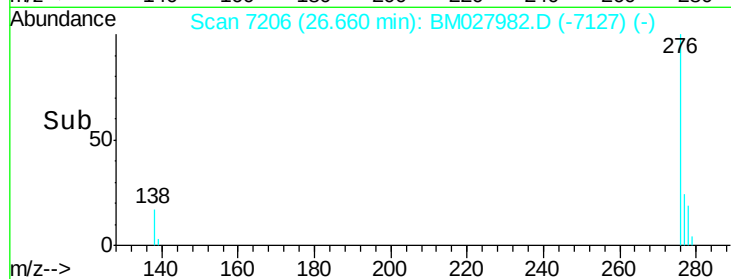
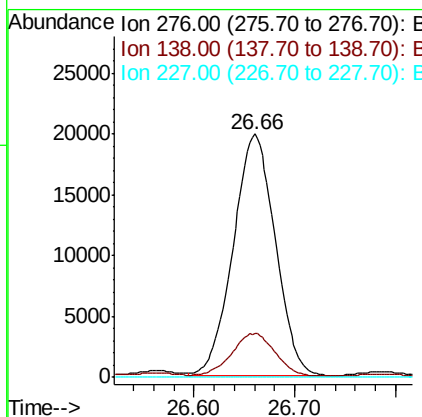
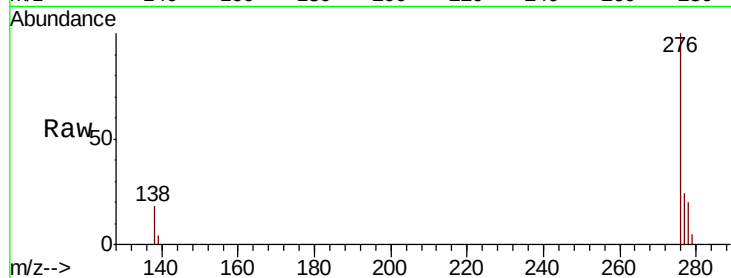
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.250 ng/ul  
 RT: 26.66 min Scan# 7206  
 Delta R.T. -0.01 min  
 Lab File: BM027982.D  
 Acq: 26 Nov 2020 02:51

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B13

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.1  | 15.7  | 23.5  |
| 227     | 0.0   | 0.0   | 0.0   |

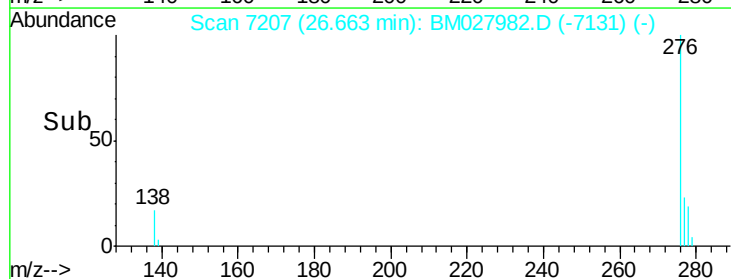
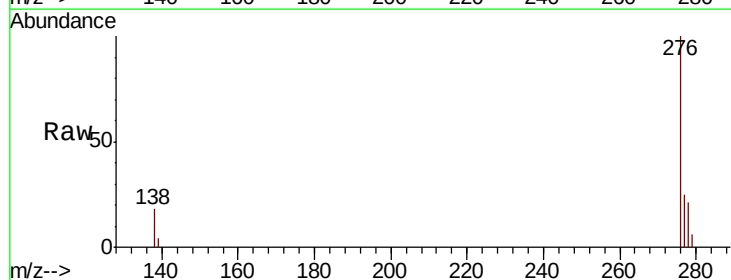
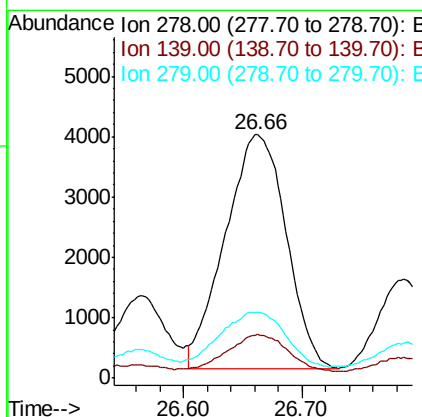
Manual Integrations  
 APPROVED

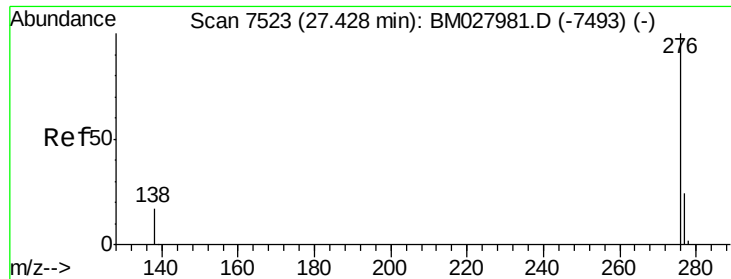
mohammad  
 11/27/2020 11:44:28 AM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 1.811 ng/ul  
 RT: 26.66 min Scan# 7207  
 Delta R.T. -0.02 min  
 Lab File: BM027982.D  
 Acq: 26 Nov 2020 02:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.0  | 14.8  | 22.2  |
| 279     | 27.0  | 25.8  | 38.6  |





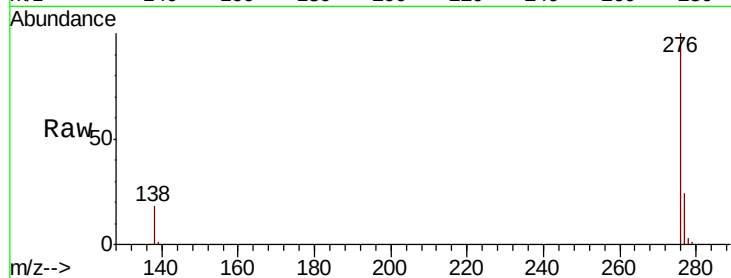
#26  
 Benzo(a,h,i)perylene  
 Concen: 6.518 ng/ul  
 RT: 27.43 min Scan# 7525  
 Delta R.T. -0.01 min  
 Lab File: BM027982.D  
 Acq: 26 Nov 2020 02:51

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 50128 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 18.4  | 17.4  | 26.2  |
| 277       | 24.2  | 22.5  | 33.7  |

Manual Integrations  
 APPROVED

mohammad  
 11/27/2020 11:44:28 AM



Abundance Ion 276.00 (275.70 to 276.70): E  
 20000 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

