

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\  
 Data File : BG046333.D  
 Acq On : 18 Aug 2020 18:31  
 Operator : CG/JU  
 Sample : L3636-06  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFMK2

Manual Integrations  
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mohammad  
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Quant Time: Aug 19 01:23:52 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG081320PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 19 01:05:23 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.94  | 152  | 99676    | 20.00  | ng/ul | 0.00     |
| 2) Naphthalene-d8           | 10.74 | 136  | 398954   | 20.00  | ng/ul | 0.00     |
| 6) Acenaphthene-d10         | 14.57 | 164  | 252242   | 20.00  | ng/ul | 0.00     |
| 12) Phenanthrene-d10        | 17.31 | 188  | 563413   | 20.00  | ng/ul | 0.00     |
| 18) Chrysene-d12            | 21.55 | 240  | 563148   | 20.00  | ng/ul | 0.00     |
| 23) Perylene-d12            | 24.66 | 264  | 599234   | 20.00  | ng/ul | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 3) 2,4-Dichlorophenol-d3    | 10.36 | 165  | 30242    | 4.40   | ng/ul | 0.00     |
| 7) Acenaphthylene-d8        | 14.26 | 160  | 124132   | 5.35   | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.55 | 176  | 102600   | 5.77   | ng/ul | 0.00     |
| 15) Anthracene-d10          | 17.41 | 188  | 145038   | 5.55   | ng/ul | 0.00     |
| 19) Pyrene-d10              | 19.69 | 212  | 164341   | 5.67   | ng/ul | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.44 | 264  | 166910   | 5.10   | ng/ul | 0.00     |
| Target Compounds            |       |      |          | Qvalue |       |          |
| 4) Naphthalene              | 10.78 | 128  | 21756    | 1.048  | ng/ul | 97       |
| 9) Acenaphthene             | 14.63 | 153  | 29935    | 1.776  | ng/ul | 98       |
| 11) Fluorene                | 15.61 | 166  | 39211    | 1.990  | ng/ul | 93       |
| 14) Phenanthrene            | 17.35 | 178  | 482278   | 15.560 | ng/ul | 100      |
| 16) Anthracene              | 17.44 | 178  | 117049   | 3.743  | ng/ul | 98       |
| 17) Fluoranthene            | 19.36 | 202  | 541987   | 15.682 | ng/ul | 98       |
| 20) Pyrene                  | 19.72 | 202  | 426003   | 11.524 | ng/ul | 97       |
| 21) Benzo(a)anthracene      | 21.54 | 228  | 277356   | 7.570  | ng/ul | 99       |
| 22) Chrysene                | 21.60 | 228  | 231567   | 6.538  | ng/ul | 96       |
| 24) Benzo(b)fluoranthene    | 23.68 | 252  | 278695   | 7.033  | ng/ul | 97       |
| 25) Benzo(k)fluoranthene    | 23.73 | 252  | 101124m  | 2.573  | ng/ul |          |
| 27) Benzo(a)pyrene          | 24.51 | 252  | 178274   | 4.900  | ng/ul | 98       |
| 28) Indeno(1,2,3-cd)pyrene  | 28.16 | 276  | 101312   | 2.224  | ng/ul | 97       |
| 30) Benzo(a,h,i)perylene    | 29.26 | 276  | 60911m   | 1.598  | ng/ul |          |

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

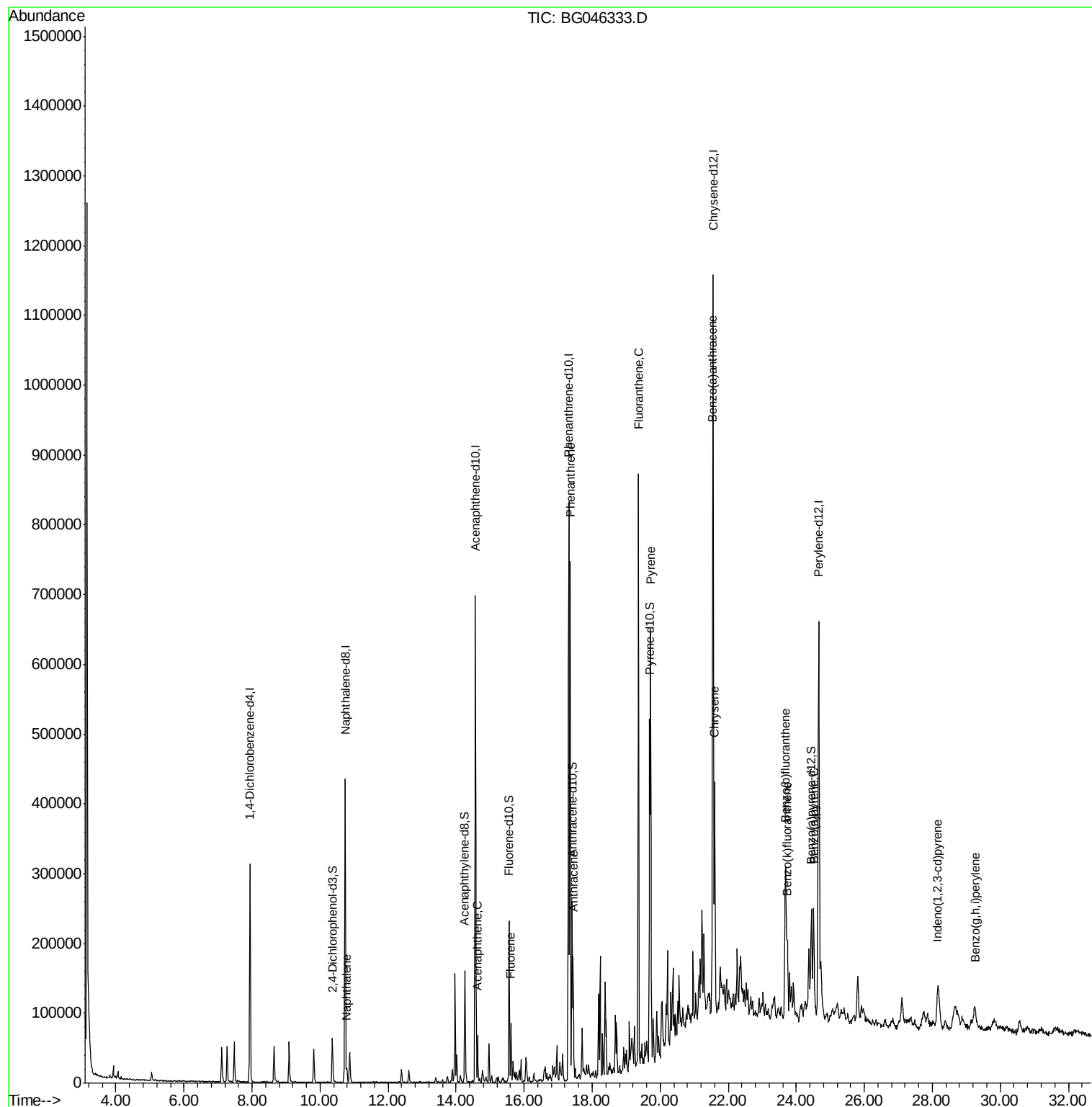
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\  
Data File : BG046333.D  
Acq On : 18 Aug 2020 18:31  
Operator : CG/JU  
Sample : L3636-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

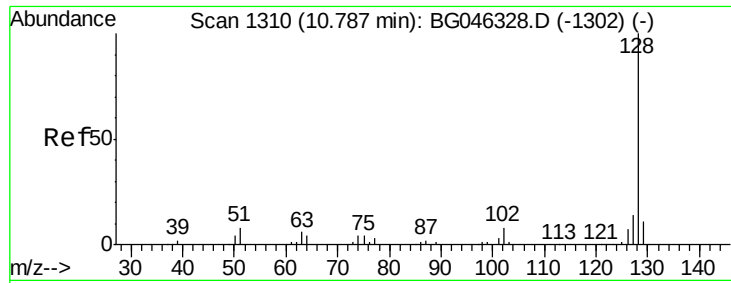
Instrument :  
BNA\_G  
ClientSampleId :  
BFMK2

Manual Integrations  
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Quant Time: Aug 19 01:23:52 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG081320PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Aug 19 01:05:23 2020  
Response via : Initial Calibration





#4

Naphthalene

Concen: 1.048 ng/ul

RT: 10.78 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BG046333.D

Acq: 18 Aug 2020 18:31

Instrument :

BNA\_G

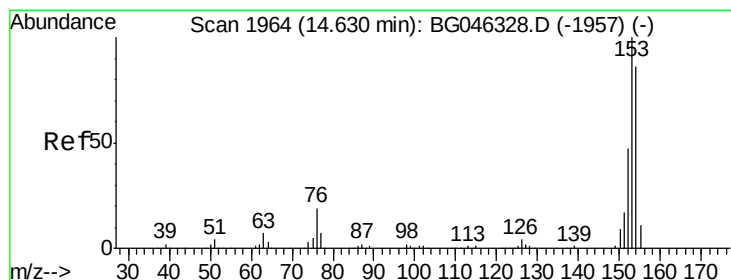
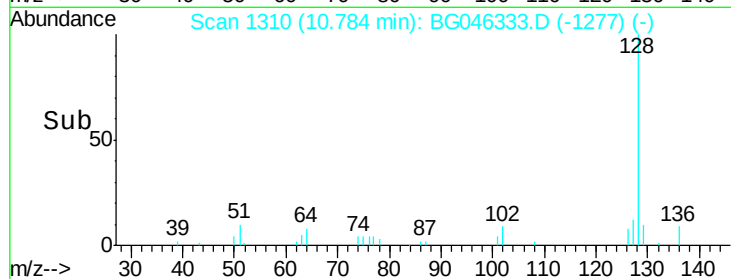
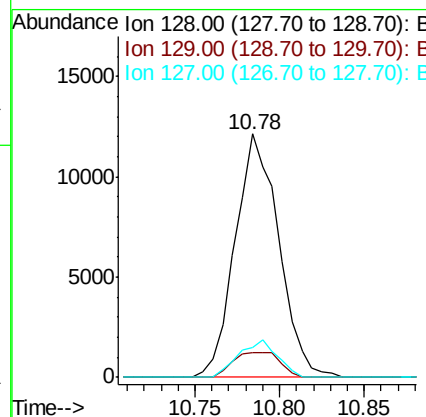
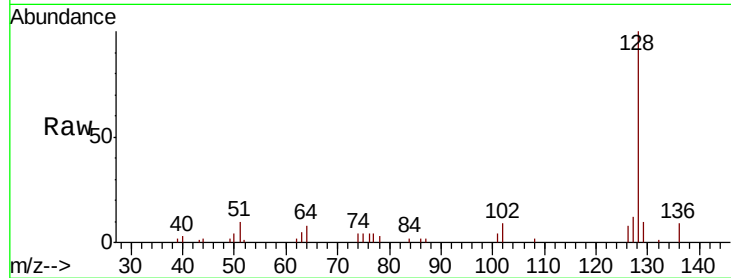
ClientSampleId :

BFMK2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 21756 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 10.2  | 9.0   | 13.6  |
| 127       | 12.4  | 10.9  | 16.3  |

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#9

Acenaphthene

Concen: 1.776 ng/ul

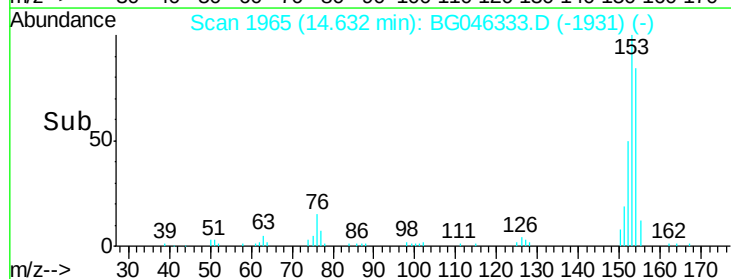
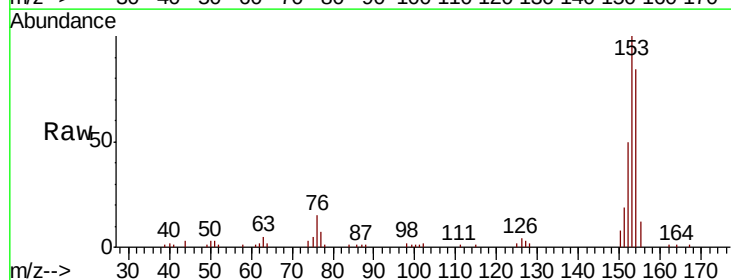
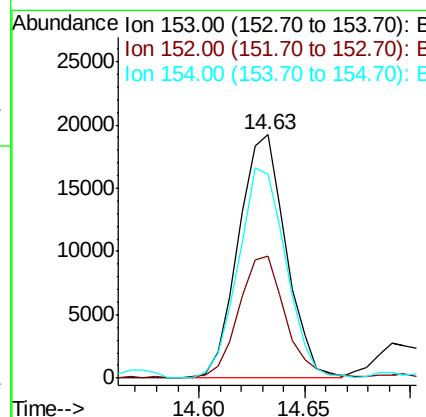
RT: 14.63 min Scan# 1965

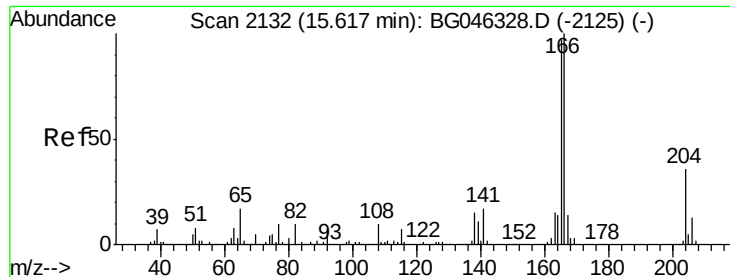
Delta R.T. 0.00 min

Lab File: BG046333.D

Acq: 18 Aug 2020 18:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 29935 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 50.0  | 37.2  | 55.8  |
| 154       | 84.0  | 67.8  | 101.6 |





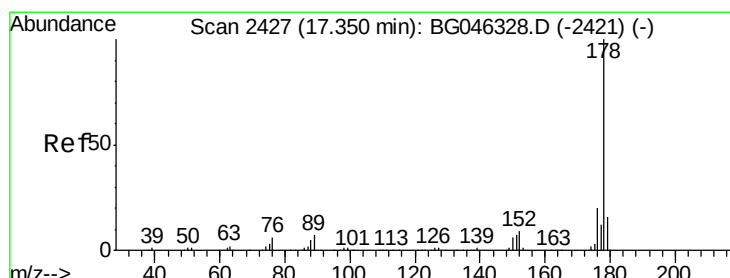
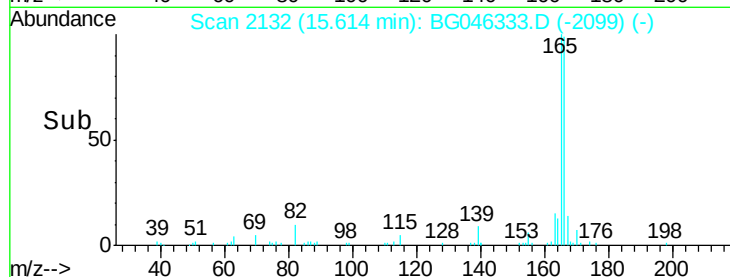
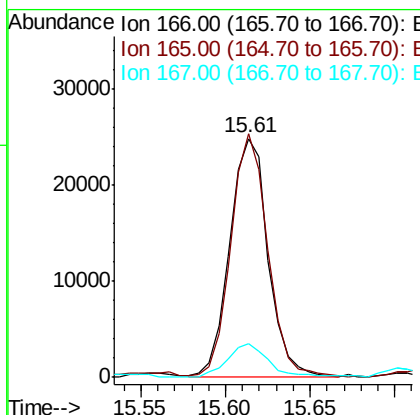
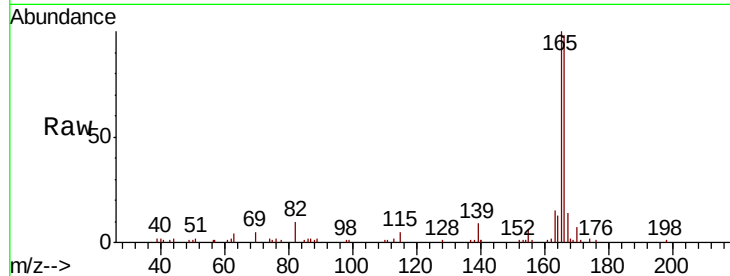
#11  
**Fluorene**  
 Concen: 1.990 ng/ul  
 RT: 15.61 min Scan# 2132  
 Delta R.T. -0.00 min  
 Lab File: BG046333.D  
 Acq: 18 Aug 2020 18:31

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFMK2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 102.1 | 75.9  | 113.9 |
| 167     | 14.4  | 10.7  | 16.1  |

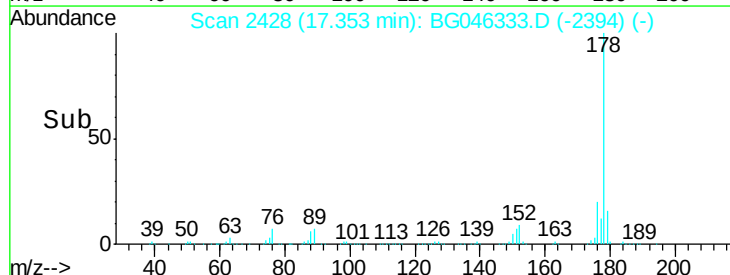
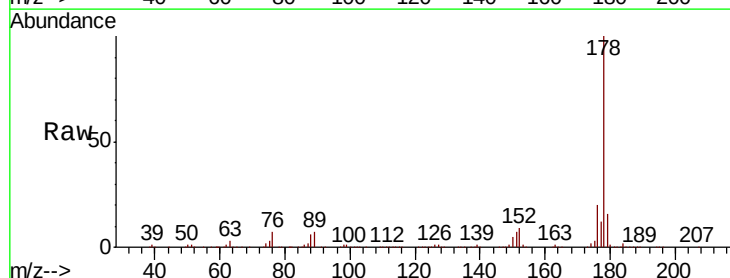
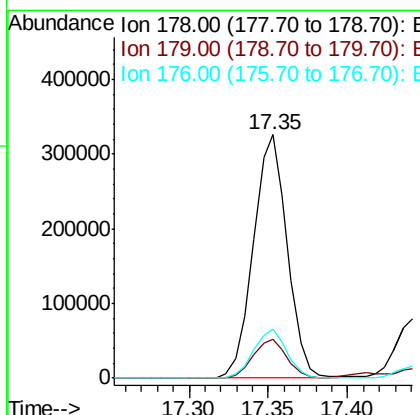
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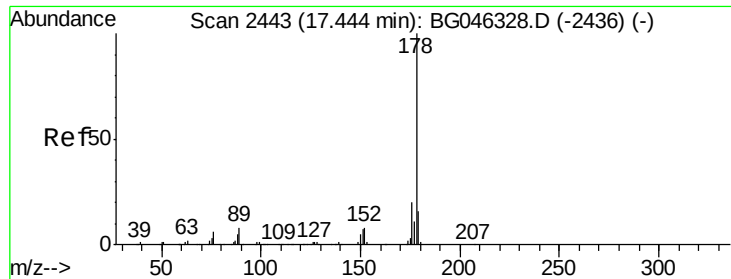
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#14  
**Phenanthrene**  
 Concen: 15.560 ng/ul  
 RT: 17.35 min Scan# 2428  
 Delta R.T. 0.00 min  
 Lab File: BG046333.D  
 Acq: 18 Aug 2020 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.8  | 12.8  | 19.2  |
| 176     | 20.0  | 15.8  | 23.8  |





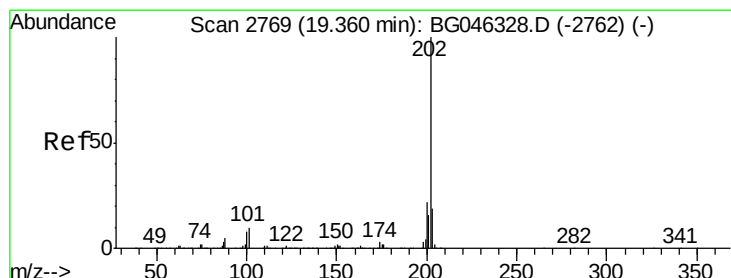
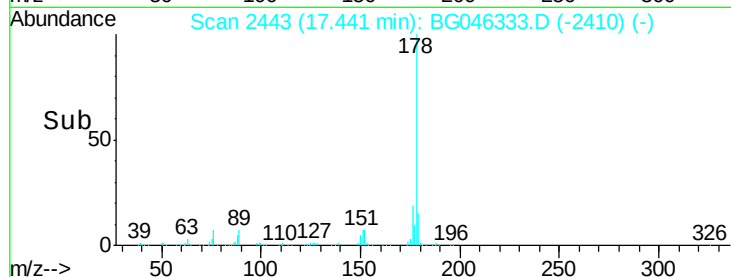
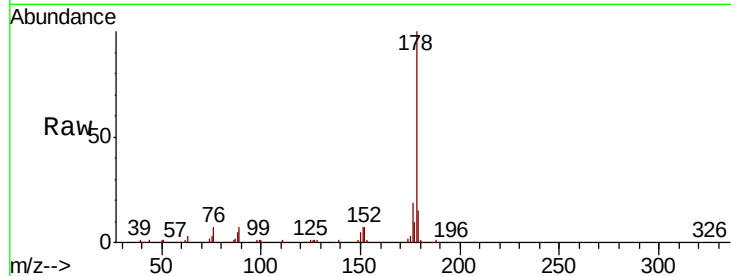
#16  
 Anthracene  
 Concen: 3.743 ng/ul  
 RT: 17.44 min Scan# 2443  
 Delta R.T. -0.00 min  
 Lab File: BG046333.D  
 Acq: 18 Aug 2020 18:31

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFMK2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.2  | 13.2  | 19.8  |
| 176     | 19.5  | 15.2  | 22.8  |

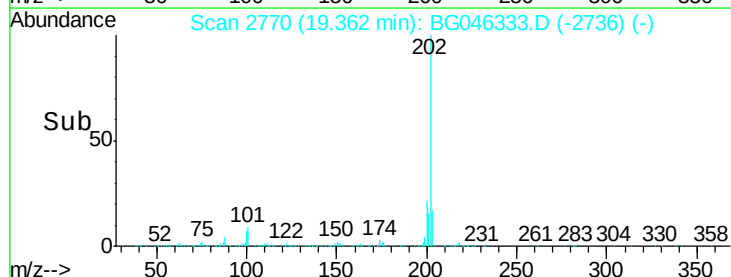
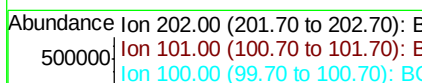
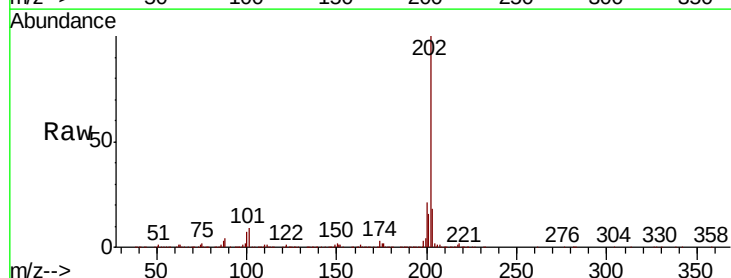
Manual Integrations  
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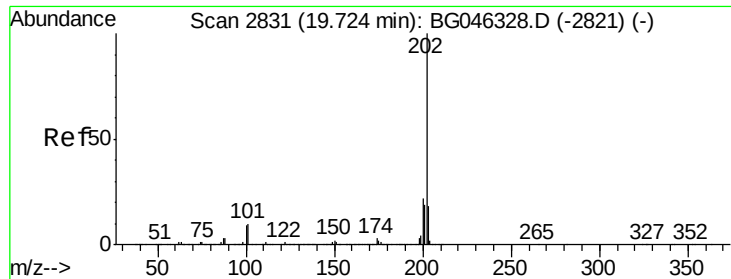
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#17  
 Fluoranthene  
 Concen: 15.682 ng/ul  
 RT: 19.36 min Scan# 2770  
 Delta R.T. 0.00 min  
 Lab File: BG046333.D  
 Acq: 18 Aug 2020 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.0   | 7.8   | 11.6  |
| 100     | 6.7   | 5.9   | 8.9   |





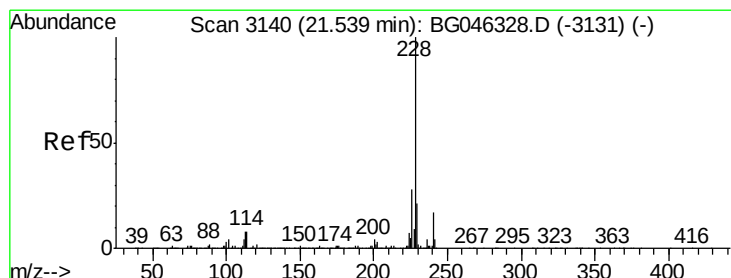
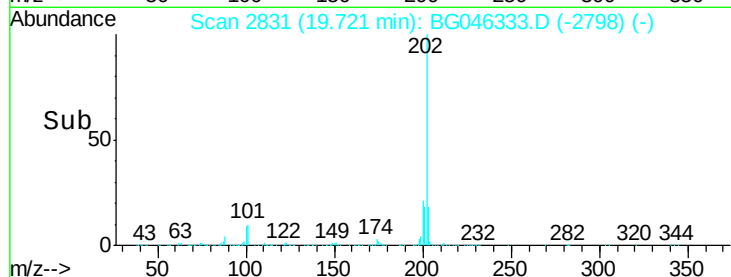
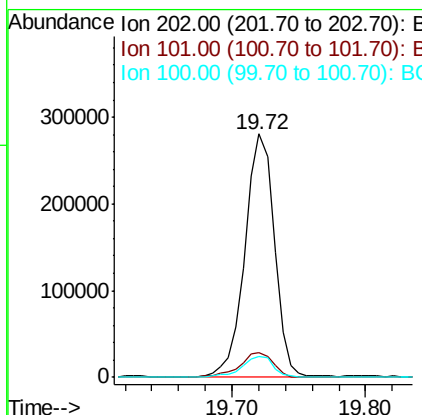
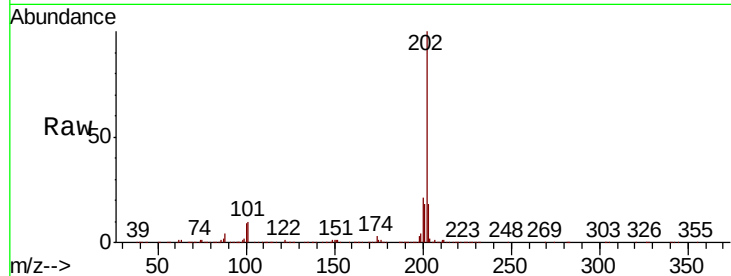
#20  
Pvrene  
Concen: 11.524 ng/ul  
RT: 19.72 min Scan# 2831  
Delta R.T. -0.00 min  
Lab File: BG046333.D  
Acq: 18 Aug 2020 18:31

Instrument :  
BNA\_G  
ClientSampleId :  
BFMK2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 426003 |       |       |
| 101     | 10.1  |        | 8.9   | 13.3  |
| 100     | 8.8   |        | 7.9   | 11.9  |

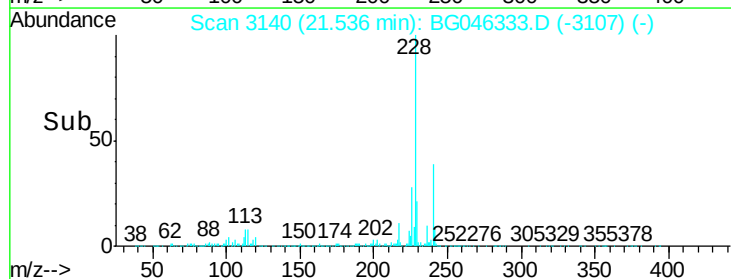
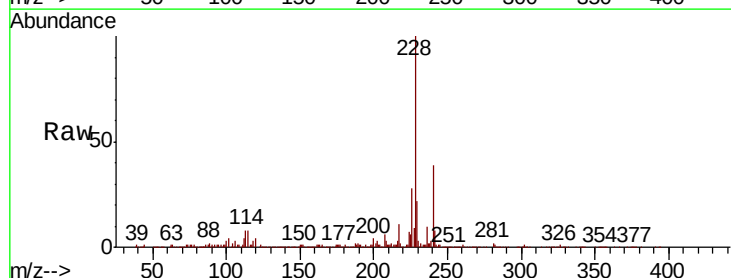
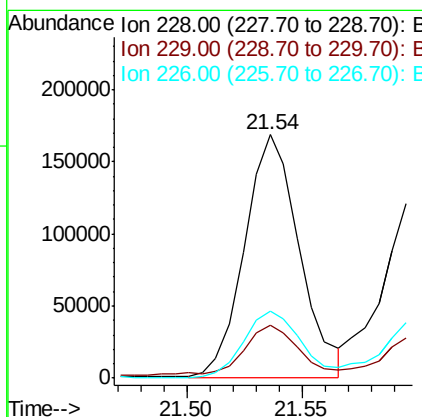
Manual Integrations  
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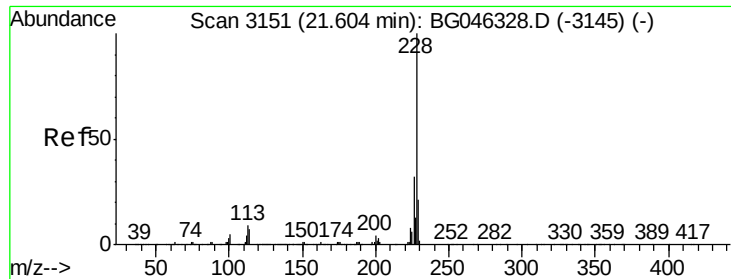
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#21  
Benzo(a)anthracene  
Concen: 7.570 ng/ul  
RT: 21.54 min Scan# 3140  
Delta R.T. -0.00 min  
Lab File: BG046333.D  
Acq: 18 Aug 2020 18:31

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 277356 |       |       |
| 229     | 21.6  |        | 16.6  | 25.0  |
| 226     | 27.7  |        | 22.6  | 33.8  |





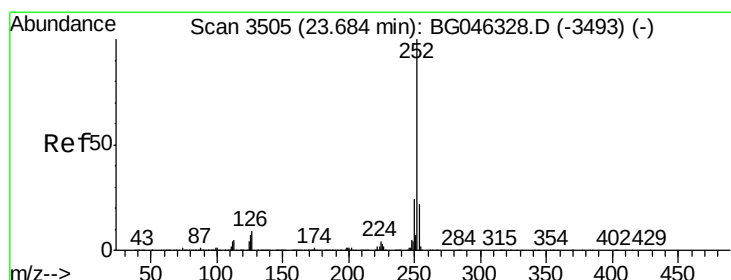
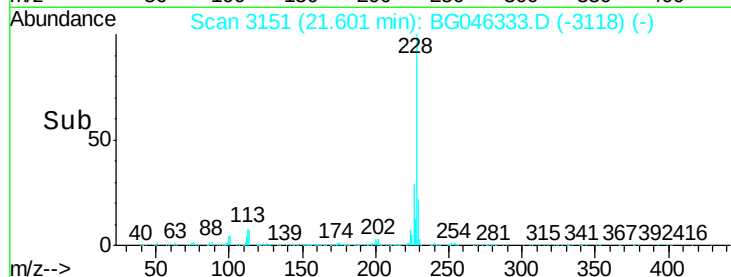
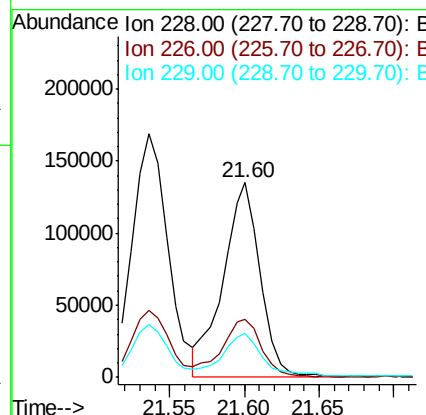
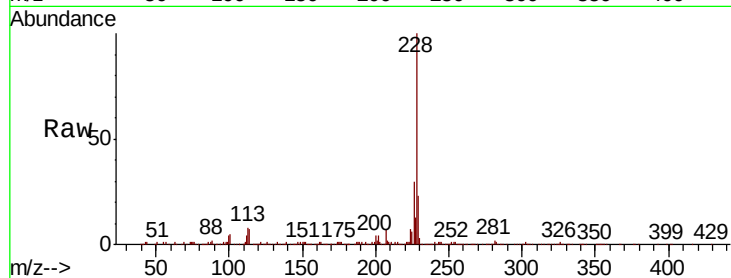
#22  
Chrysene  
Concen: 6.538 ng/ul  
RT: 21.60 min Scan# 3151  
Delta R.T. -0.00 min  
Lab File: BG046333.D  
Acq: 18 Aug 2020 18:31

Instrument :  
BNA\_G  
ClientSampleId :  
BFMK2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 231567 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.7  | 25.5  | 38.3   |
| 229       | 22.8  | 17.0  | 25.4   |

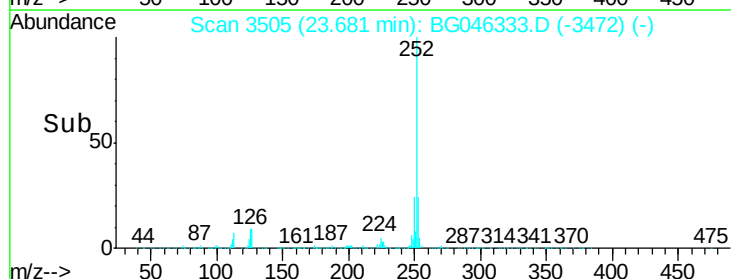
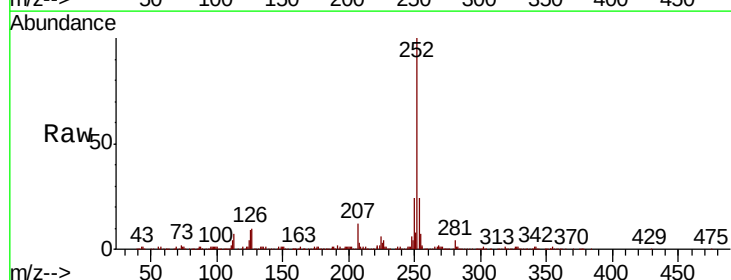
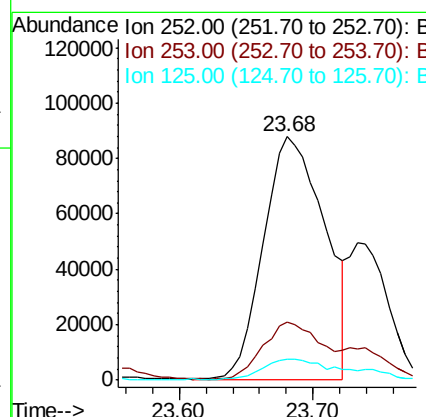
Manual Integrations  
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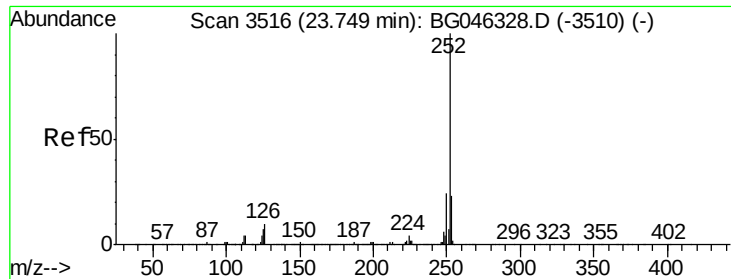
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#24  
Benzo(b)fluoranthene  
Concen: 7.033 ng/ul  
RT: 23.68 min Scan# 3505  
Delta R.T. -0.00 min  
Lab File: BG046333.D  
Acq: 18 Aug 2020 18:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 278695 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.9  | 17.8  | 26.6   |
| 125       | 8.8   | 6.4   | 9.6    |





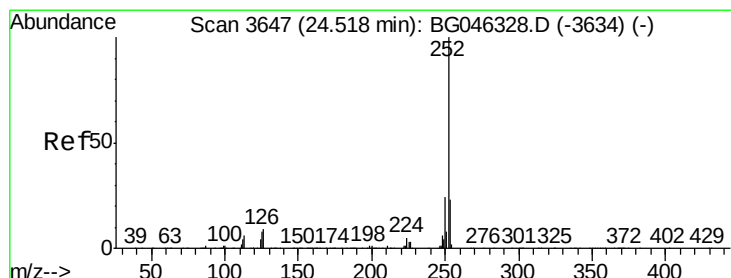
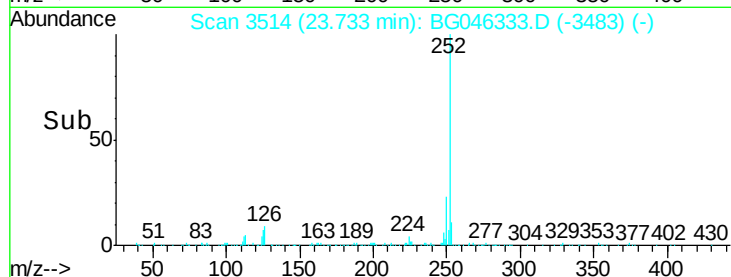
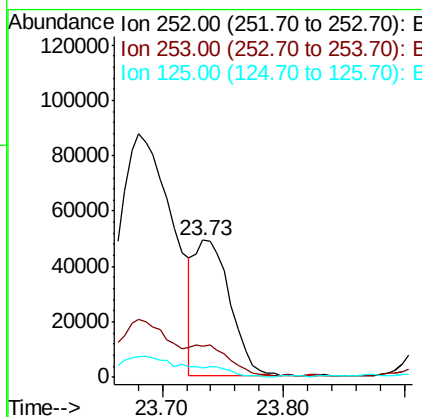
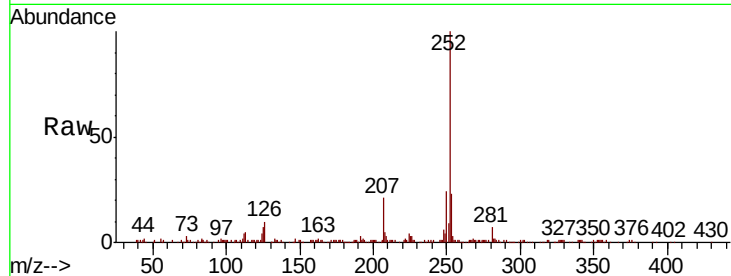
#25  
Benzo(k)fluoranthene  
Concen: 2.573 ng/ul m  
RT: 23.73 min Scan# 3514  
Delta R.T. -0.02 min  
Lab File: BG046333.D  
Acq: 18 Aug 2020 18:31

Instrument :  
BNA\_G  
ClientSampled :  
BFMK2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 18.5  | 27.7  |
| 125     | 6.6   | 6.2   | 9.2   |

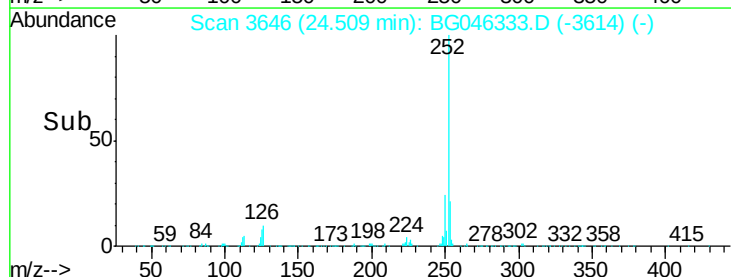
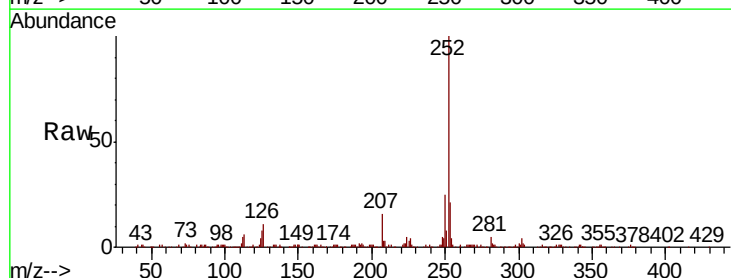
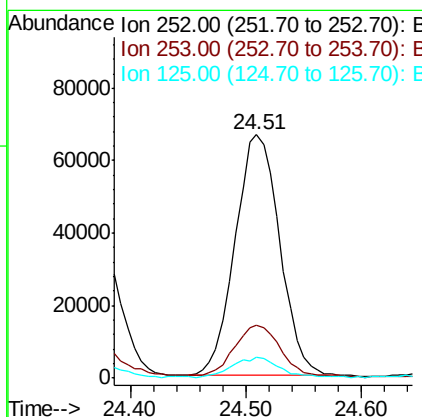
Manual Integrations  
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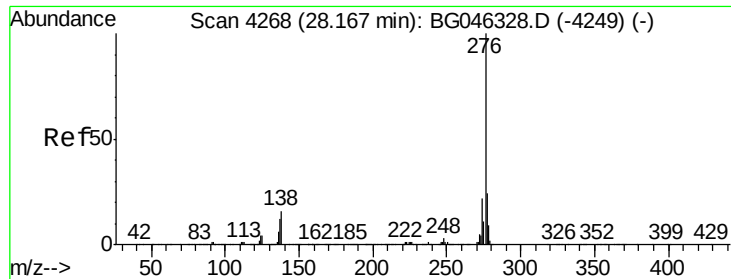


#27  
Benzo(a)pyrene  
Concen: 4.900 ng/ul  
RT: 24.51 min Scan# 3646  
Delta R.T. -0.01 min  
Lab File: BG046333.D  
Acq: 18 Aug 2020 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 17.8  | 26.8  |
| 125     | 8.4   | 7.1   | 10.7  |







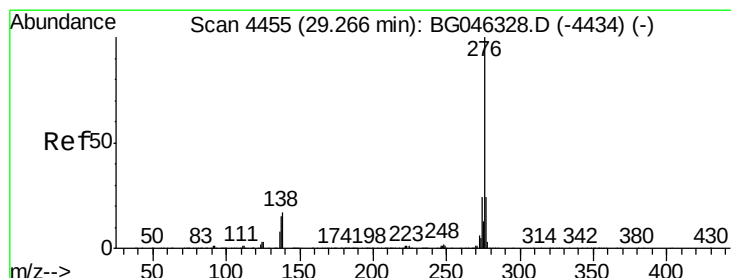
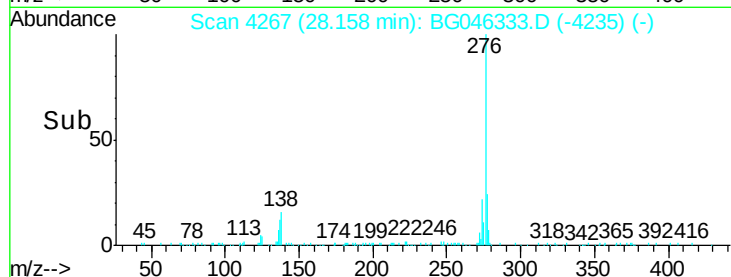
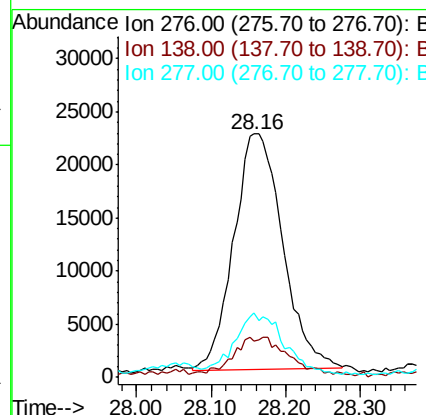
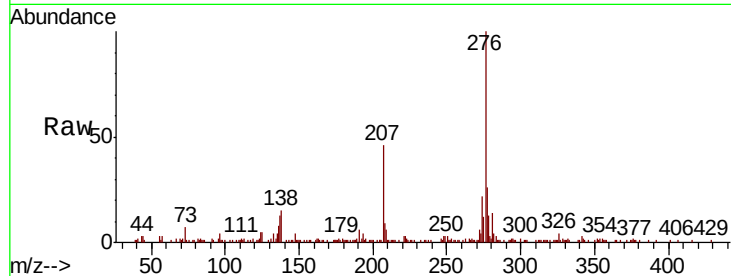
#28  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.224 ng/ul  
 RT: 28.16 min Scan# 4267  
 Delta R.T. -0.01 min  
 Lab File: BG046333.D  
 Acq: 18 Aug 2020 18:31

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFMK2

|             |       |        |
|-------------|-------|--------|
| Tot Ion:276 | Resp: | 101312 |
| Ion Ratio   | Lower | Upper  |
| 276 100     |       |        |
| 138 15.1    | 13.2  | 19.8   |
| 277 26.5    | 19.9  | 29.9   |

Manual Integrations  
 APPROVED

mohammad  
 8/19/2020 2:17:39 PM



#30  
 Benzo(g,h,i)perylene  
 Concen: 1.598 ng/ul m  
 RT: 29.26 min Scan# 4454  
 Delta R.T. -0.01 min  
 Lab File: BG046333.D  
 Acq: 18 Aug 2020 18:31

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:276 | Resp: | 60911 |
| Ion Ratio   | Lower | Upper |
| 276 100     |       |       |
| 138 18.9    | 12.9  | 19.3  |
| 277 27.5    | 19.4  | 29.0  |

