

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070821\  
 Data File : BM030891.D  
 Acq On : 08 Jul 2021 19:00  
 Operator : CG/JU  
 Sample : M2825-11  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BGD5

Manual Integrations  
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Quant Time: Jul 09 02:52:45 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM062821.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 09 02:52:26 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.767  | 152  | 1931     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.545 | 136  | 7719     | 0.400 | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.390 | 164  | 4617     | 0.400 | ng/ul  | -0.02    |
| 13) Phenanthrene-d10        | 17.131 | 188  | 8526     | 0.400 | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.306 | 240  | 5615     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.549 | 264  | 5776     | 0.400 | ng/ul  | #-0.02   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.265  | 96   | 4824     | 2.293 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.151 | 152  | 3154     | 0.260 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.153 | 212  | 6099     | 0.379 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 5) Naphthalene              | 10.594 | 128  | 875      | 0.040 | ng/ul# | 77       |
| 10) Acenaphthylene          | 14.114 | 152  | 787      | 0.038 | ng/ul# | 77       |
| 11) Acenaphthene            | 14.455 | 153  | 1193     | 0.071 | ng/ul  | 98       |
| 12) Fluorene                | 15.441 | 166  | 1661     | 0.090 | ng/ul# | 98       |
| 15) Phenanthrene            | 17.172 | 178  | 21344    | 0.745 | ng/ul  | 100      |
| 16) Anthracene              | 17.263 | 178  | 5755     | 0.229 | ng/ul  | 96       |
| 19) Fluoranthene            | 19.184 | 202  | 27425    | 1.107 | ng/ul  | 99       |
| 20) Pyrene                  | 19.546 | 202  | 22672    | 0.910 | ng/ul  | 100      |
| 21) Benzo(a)anthracene      | 21.292 | 228  | 8971     | 0.401 | ng/ul  | 97       |
| 22) Chrysene                | 21.340 | 228  | 7621     | 0.304 | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 22.873 | 252  | 8230m    | 0.322 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.912 | 252  | 3620m    | 0.137 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.447 | 252  | 4492     | 0.206 | ng/ul# | 79       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.839 | 276  | 3007     | 0.106 | ng/ul# | 90       |
| 28) Dibenzo(a,h)anthracene  | 25.851 | 278  | 900      | 0.040 | ng/ul# | 9        |
| 29) Benzo(g,h,i)perylene    | 26.539 | 276  | 525      | 0.021 | ng/ul# | 40       |
| -----                       |        |      |          |       |        |          |

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

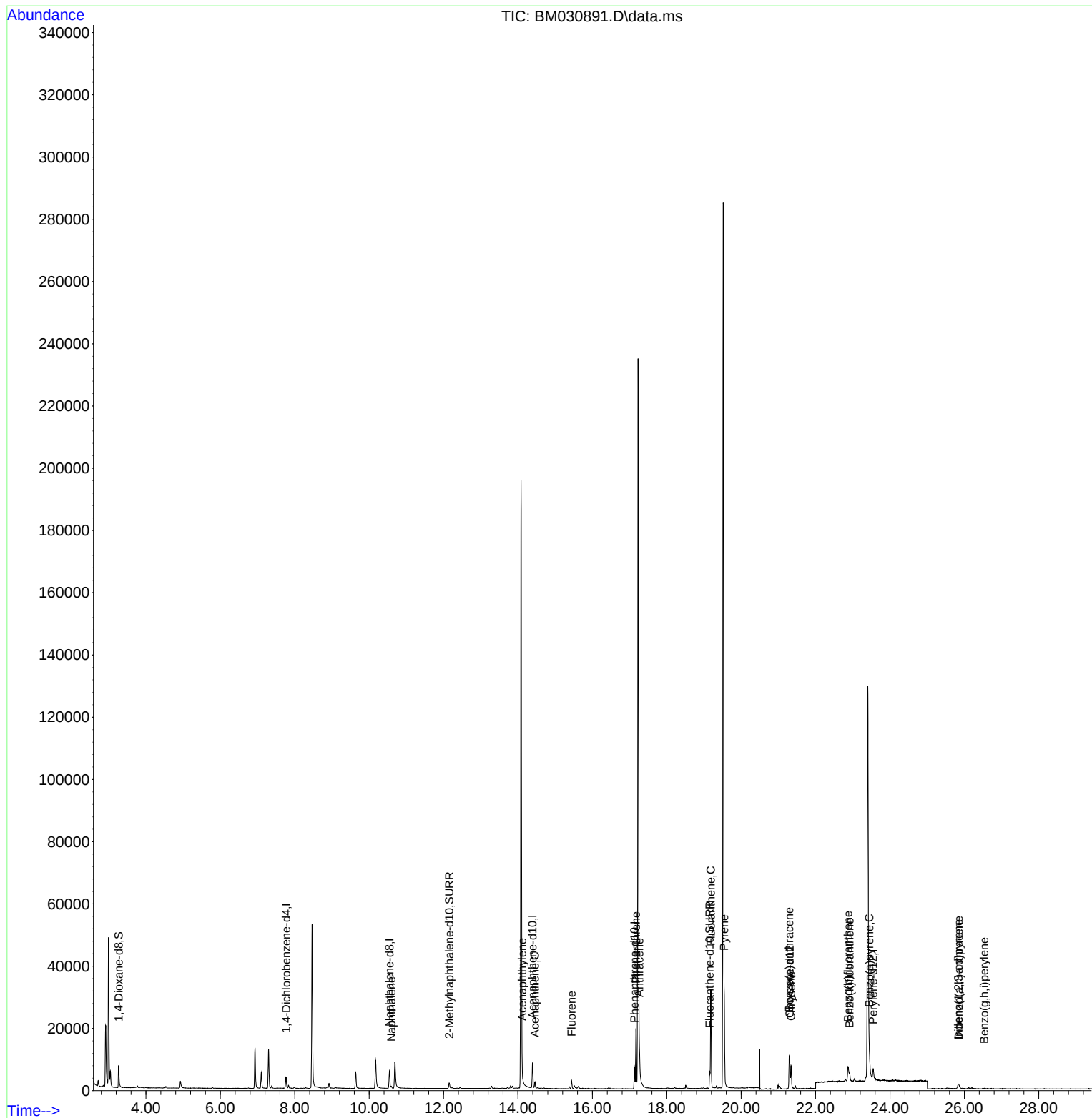
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070821\  
Data File : BM030891.D  
Acq On : 08 Jul 2021 19:00  
Operator : CG/JU  
Sample : M2825-11  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

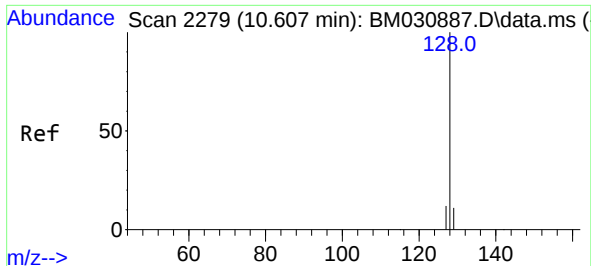
Instrument :  
BNA\_M  
ClientSampleId :  
BGDP5

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Quant Time: Jul 09 02:52:45 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM062821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 09 02:52:26 2021  
Response via : Initial Calibration





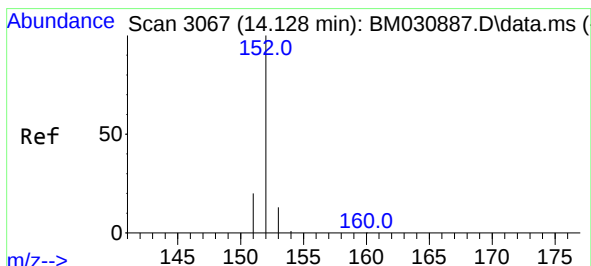
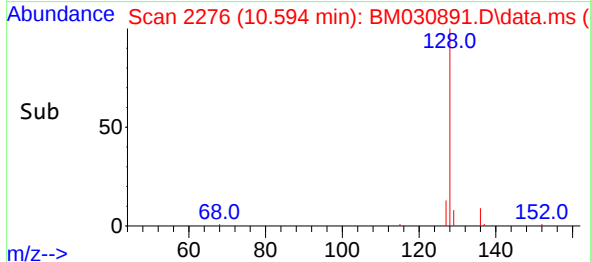
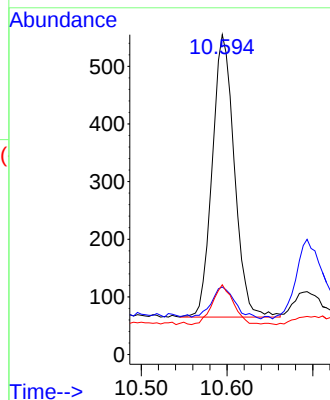
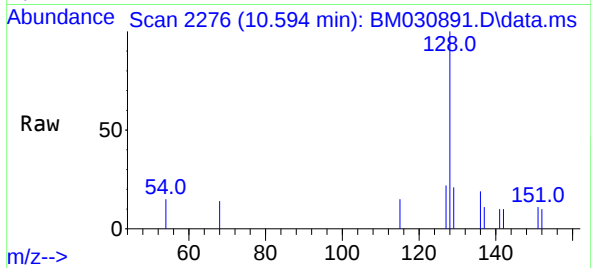
#5  
Naphthalene  
Concen: 0.040 ng/ul  
RT: 10.594 min Scan# 2276  
Delta R.T. -0.009 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 875   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 21.1  | 9.0   | 13.6# |
| 127       | 21.8  | 10.9  | 16.3# |

Instrument :  
BNA\_M  
ClientSampled :  
BGDP5

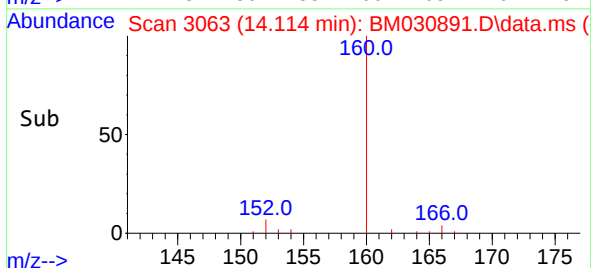
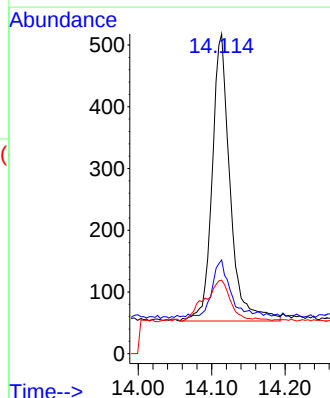
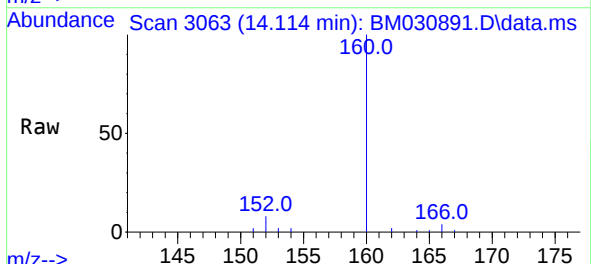
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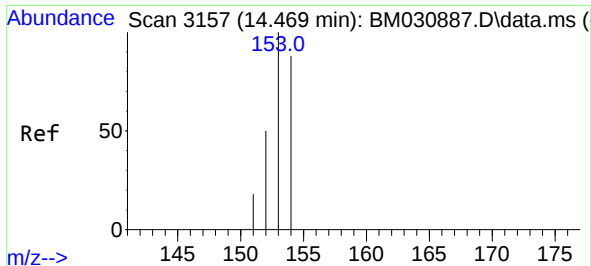
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#10  
Acenaphthylene  
Concen: 0.038 ng/ul  
RT: 14.114 min Scan# 3063  
Delta R.T. -0.011 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

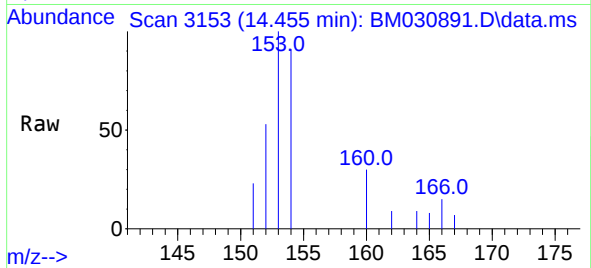
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 787   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 29.3  | 15.5  | 23.3# |
| 153       | 23.0  | 10.7  | 16.1# |





#11  
Acenaphthene  
Concen: 0.071 ng/ul  
RT: 14.455 min Scan# 3153  
Delta R.T. -0.011 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

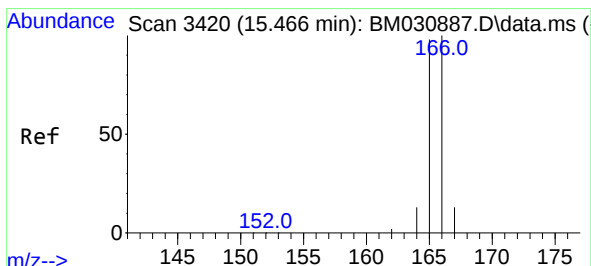
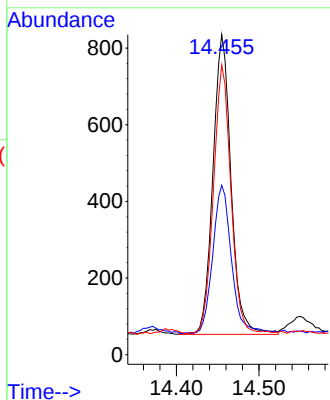
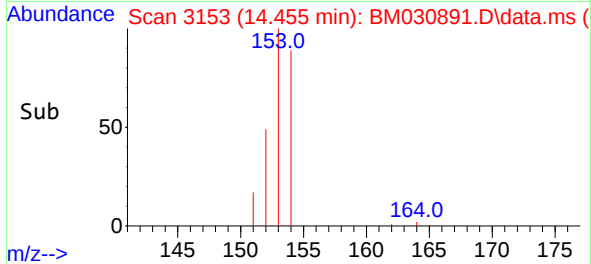
Instrument :  
BNA\_M  
ClientSampled :  
BGDP5



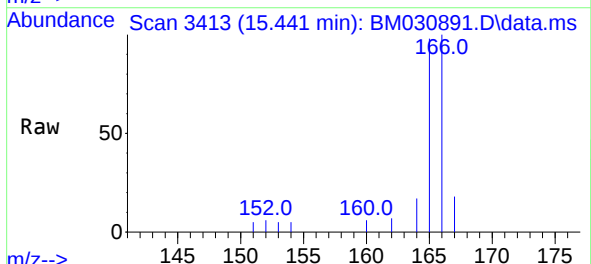
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Ion Ratio Lower Upper  
153 100  
152 52.9 40.2 60.2  
154 90.5 71.2 106.8

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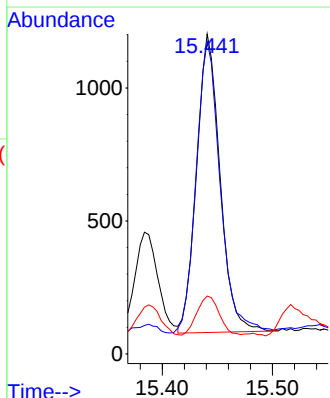
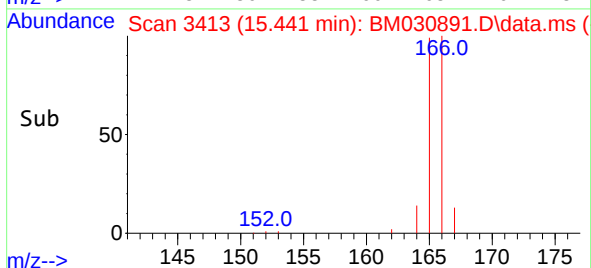
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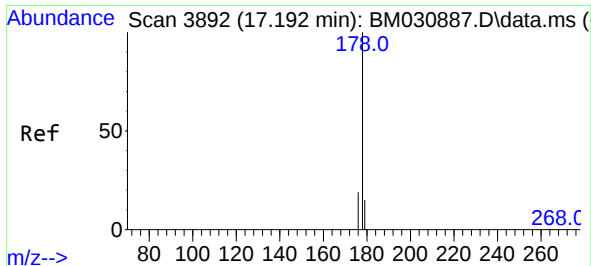


#12  
Fluorene  
Concen: 0.090 ng/ul  
RT: 15.441 min Scan# 3413  
Delta R.T. -0.023 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00



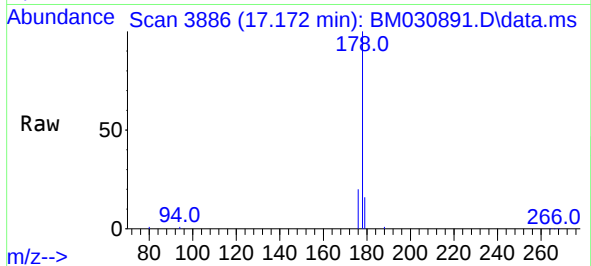
Tgt Ion:166 Resp: 1661  
Ion Ratio Lower Upper  
166 100  
165 97.7 77.7 116.5  
167 18.1 11.3 16.9#





#15  
Phenanthrene  
Concen: 0.745 ng/u1  
RT: 17.172 min Scan# 3886  
Delta R.T. -0.021 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

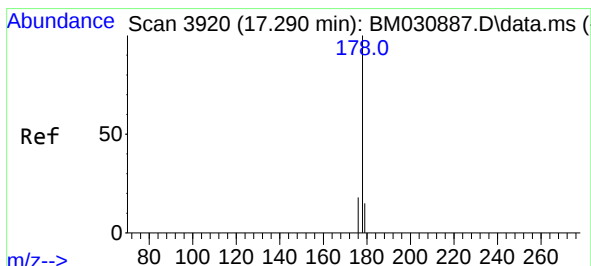
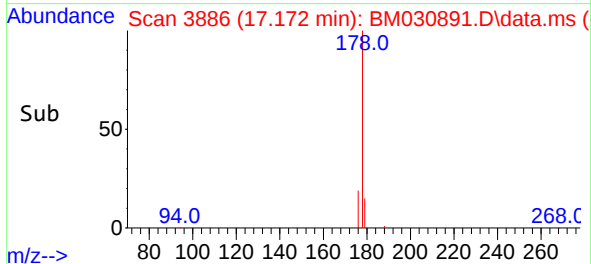
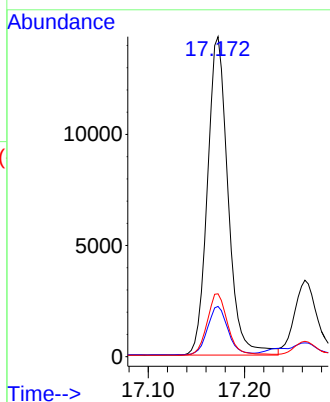
Instrument :  
BNA\_M  
ClientSampleId :  
BGDP5



Tgt Ion:178 Resp: 21344  
Ion Ratio Lower Upper  
178 100  
179 15.7 12.6 19.0  
176 19.6 15.5 23.3

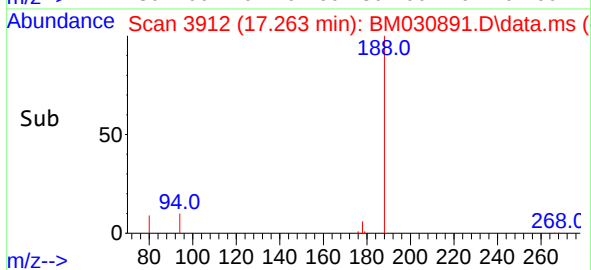
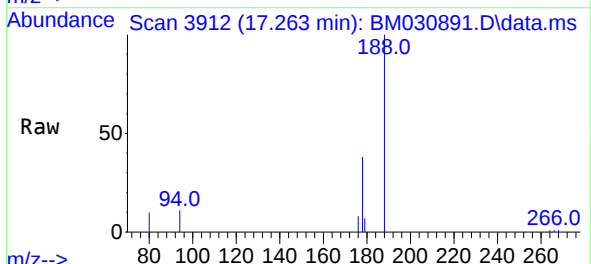
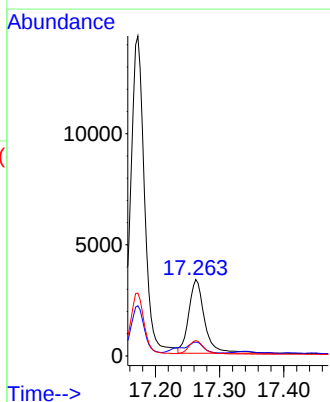
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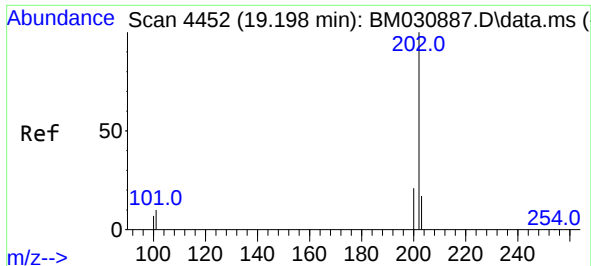
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#16  
Anthracene  
Concen: 0.229 ng/u1  
RT: 17.263 min Scan# 3912  
Delta R.T. -0.028 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

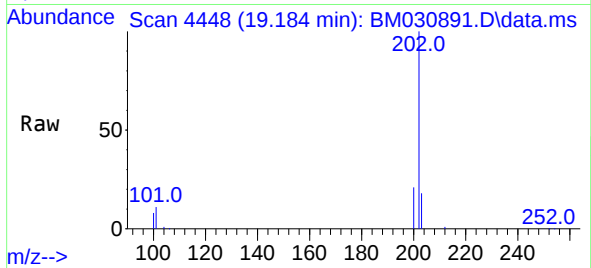
Tgt Ion:178 Resp: 5755  
Ion Ratio Lower Upper  
178 100  
179 18.0 12.7 19.1  
176 20.2 15.2 22.8





#19  
Fluoranthene  
Concen: 1.107 ng/ul  
RT: 19.184 min Scan# 4448  
Delta R.T. -0.015 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

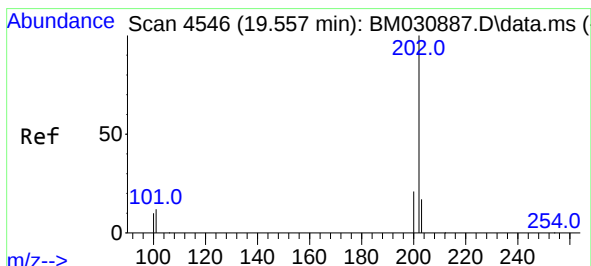
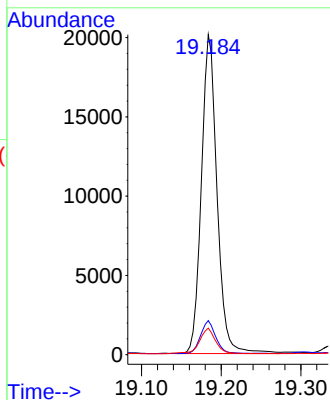
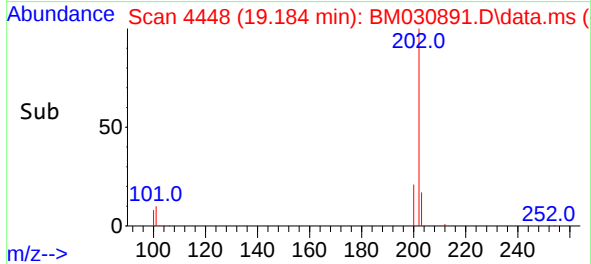
Instrument :  
BNA\_M  
ClientSampled :  
BGDP5



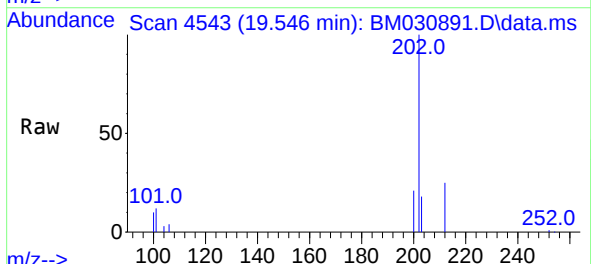
Tgt Ion:202 Resp: 27425  
Ion Ratio Lower Upper  
202 100  
101 10.7 8.8 13.2  
100 8.3 6.9 10.3

Manual Integrations  
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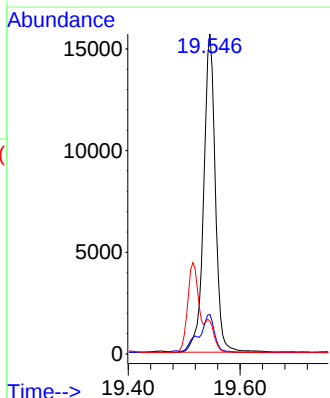
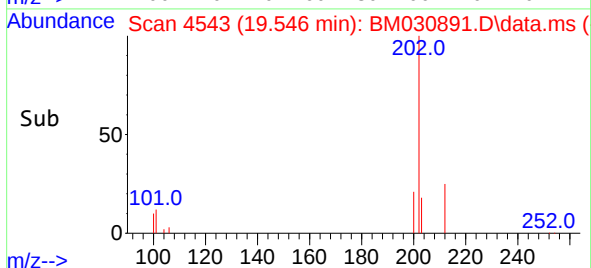
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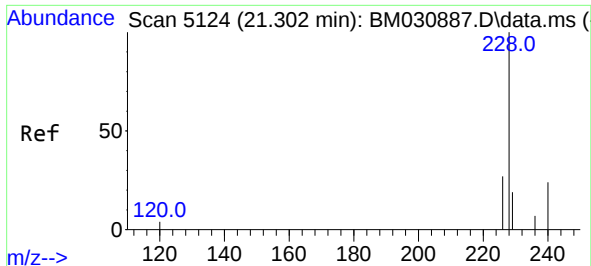


#20  
Pyrene  
Concen: 0.910 ng/ul  
RT: 19.546 min Scan# 4543  
Delta R.T. -0.011 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00



Tgt Ion:202 Resp: 22672  
Ion Ratio Lower Upper  
202 100  
101 12.3 10.1 15.1  
100 10.3 8.2 12.2





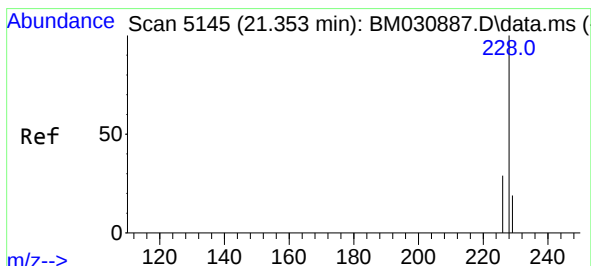
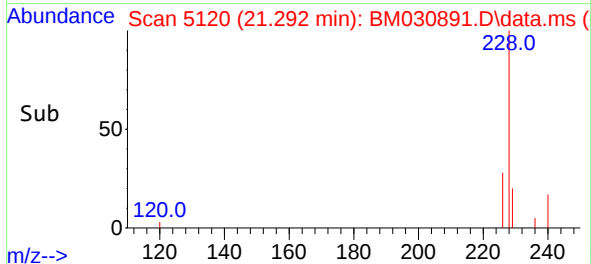
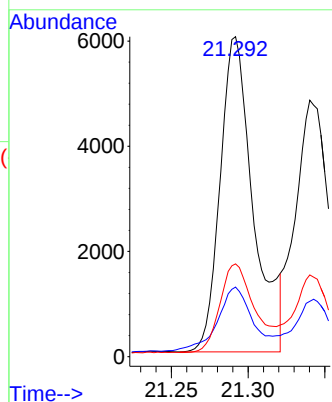
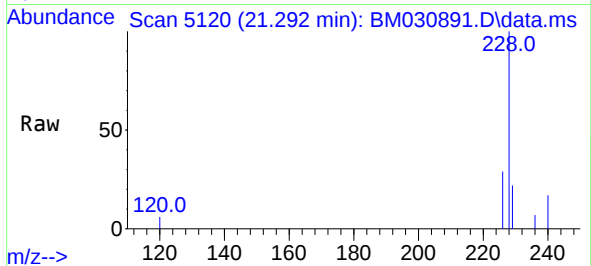
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Benzo(a)anthracene  
Concen: 0.401 ng/ul  
RT: 21.292 min Scan# 5120  
Delta R.T. -0.012 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 8971 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 229       | 21.7  | 15.8  | 23.6 |
| 226       | 29.0  | 22.2  | 33.4 |

Instrument :  
BNA\_M  
ClientSampled :  
BGDP5

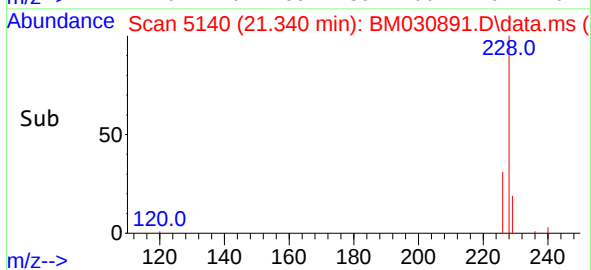
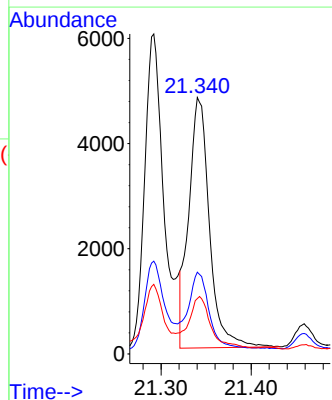
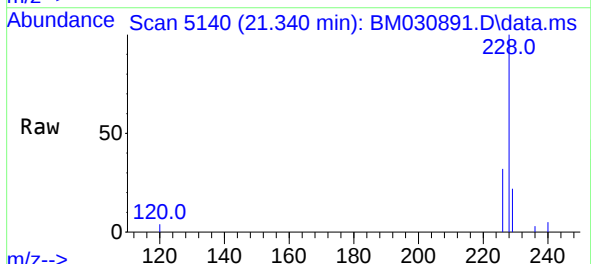
Manual Integrations  
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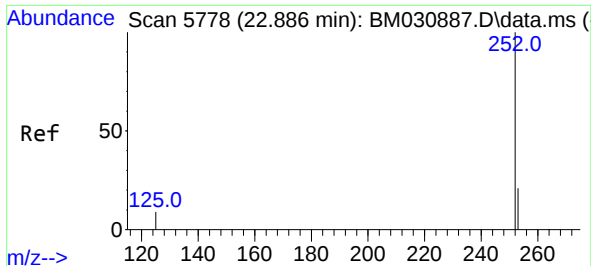
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#22  
Chrysene  
Concen: 0.304 ng/ul  
RT: 21.340 min Scan# 5140  
Delta R.T. -0.012 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 7621 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 31.9  | 24.4  | 36.6 |
| 229       | 21.6  | 15.4  | 23.0 |





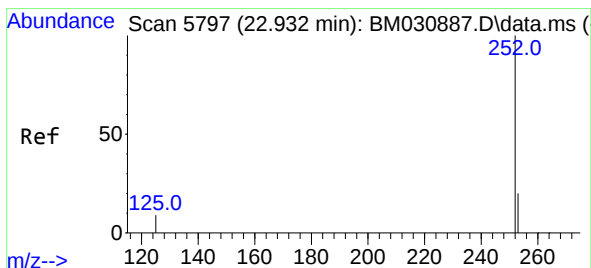
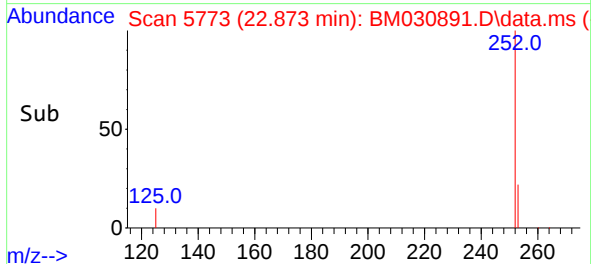
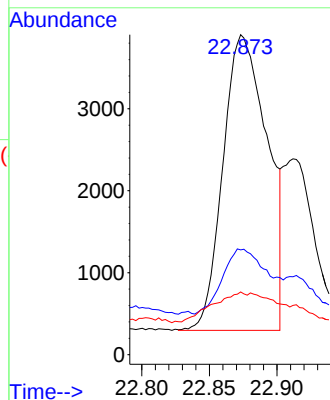
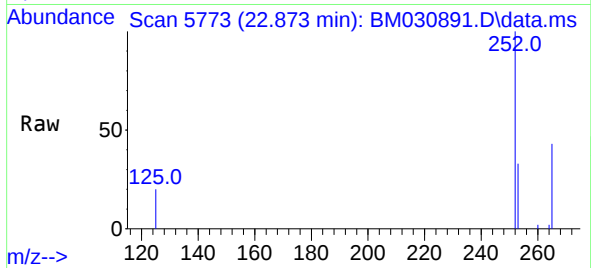
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Benzo(b)fluoranthene  
Concen: 0.322 ng/ul m  
RT: 22.873 min Scan# 5773  
Delta R.T. -0.012 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 8230 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 32.7  | 0.0   | 50.2 |
| 125       | 19.6  | 0.0   | 27.8 |

Instrument :  
BNA\_M  
ClientSampled :  
BGDP5

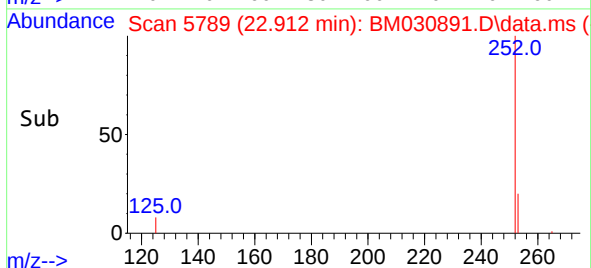
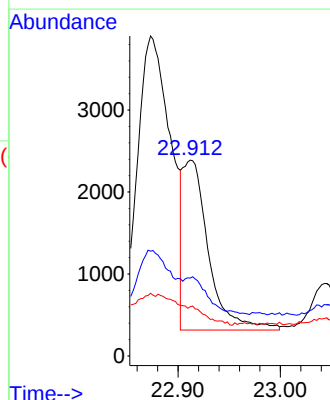
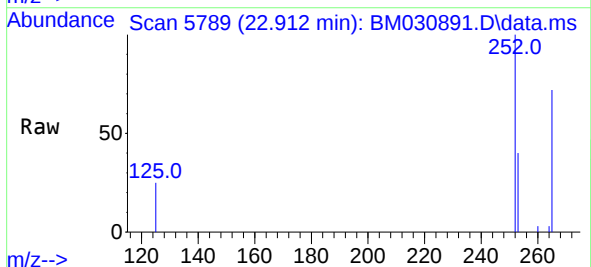
Manual Integrations  
APPROVED

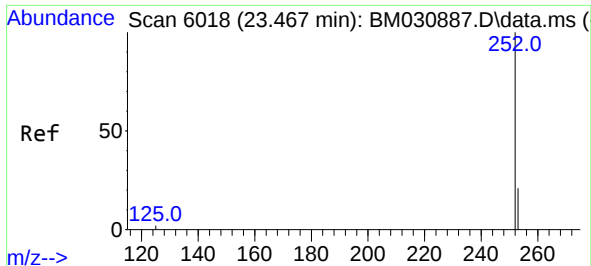
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#25  
Benzo(k)fluoranthene  
Concen: 0.137 ng/ul m  
RT: 22.912 min Scan# 5789  
Delta R.T. -0.019 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 3620  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 39.8  | 20.6  | 31.0# |
| 125       | 25.2  | 11.0  | 16.4# |





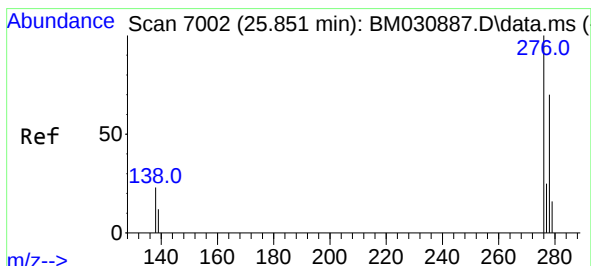
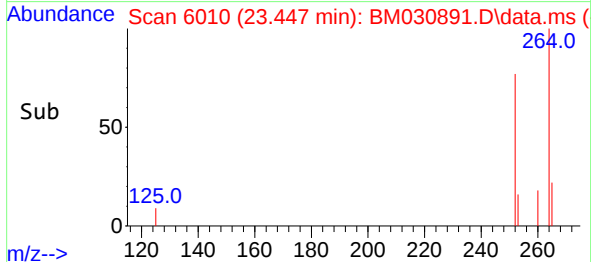
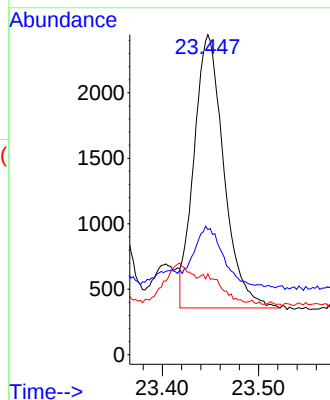
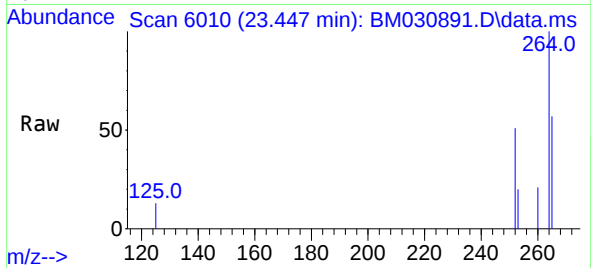
#26  
Benzo(a)pyrene  
Concen: 0.206 ng/ul  
RT: 23.447 min Scan# 6010  
Delta R.T. -0.022 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 4492  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 39.1  | 22.0  | 33.0# |
| 125       | 25.2  | 13.4  | 20.2# |

Instrument :  
BNA\_M  
ClientSampleId :  
BGDP5

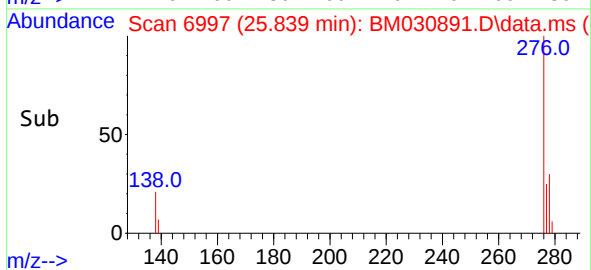
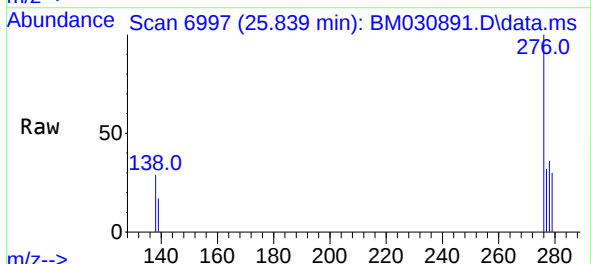
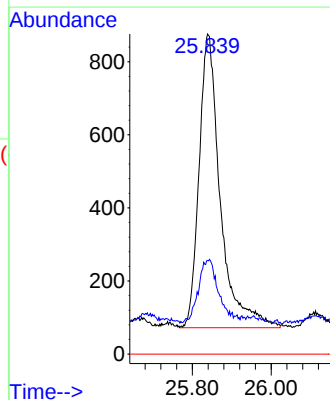
Manual Integrations  
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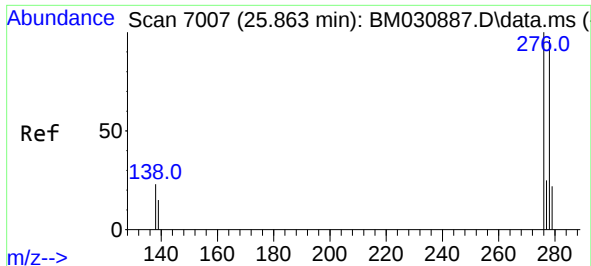
mohammad  
7/9/2021 2:48:14 PM



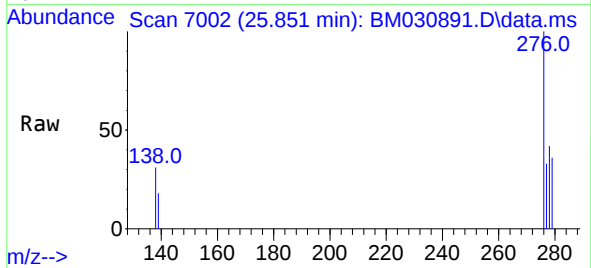
#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.106 ng/ul  
RT: 25.839 min Scan# 6997  
Delta R.T. -0.015 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 3007  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 18.9  | 19.1  | 28.7# |
| 227       | 0.0   | 0.0   | 0.0   |

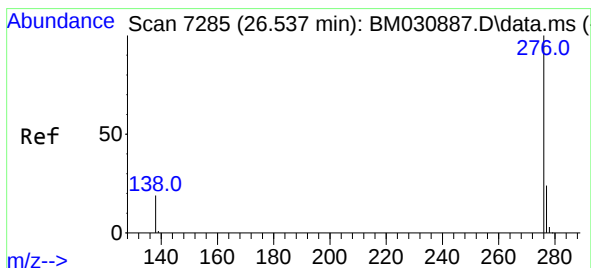
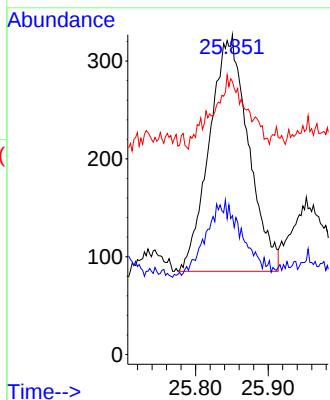
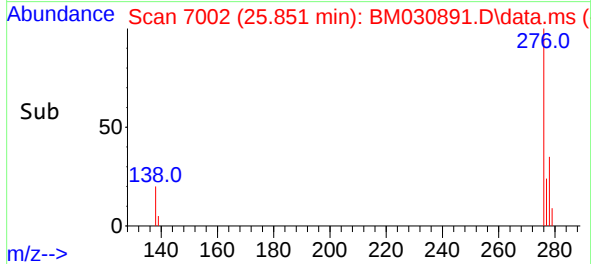




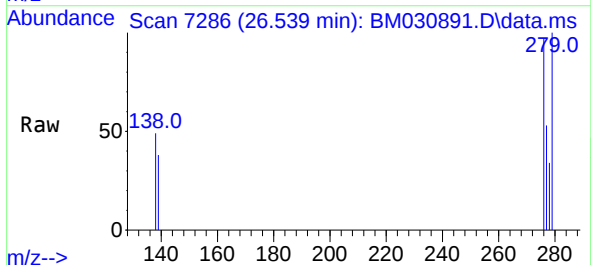
#28  
Dibenzo(a,h)anthracene  
Concen: 0.040 ng/ul  
RT: 25.851 min Scan# 7002  
Delta R.T. -0.017 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00



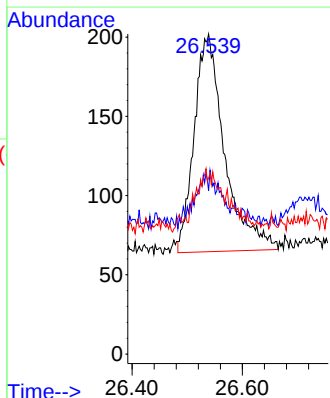
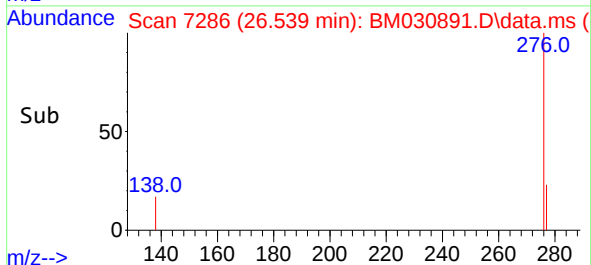
Tgt Ion:278 Resp: 900  
Ion Ratio Lower Upper  
278 100  
139 43.4 14.2 21.4#  
279 85.3 21.6 32.4#



#29  
Benzo(g,h,i)perylene  
Concen: 0.021 ng/ul  
RT: 26.539 min Scan# 7286  
Delta R.T. -0.000 min  
Lab File: BM030891.D  
Acq: 08 Jul 2021 19:00



Tgt Ion:276 Resp: 525  
Ion Ratio Lower Upper  
276 100  
138 51.0 18.0 27.0#  
277 55.0 19.5 29.3#



Instrument :  
BNA\_M  
ClientSampled :  
BGDP5

Manual Integrations  
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