

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072921\  
 Data File : BM031286.D  
 Acq On : 30 Jul 2021 21:57  
 Operator : CG/JU  
 Sample : M3084-11DL 5X  
 Misc :  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0029DL

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Quant Time: Jul 30 23:38:48 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM072821.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 30 23:38:17 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.611  | 152  | 1757     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.370 | 136  | 6515     | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.239 | 164  | 3871     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.988 | 188  | 7599     | 0.400 | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.176 | 240  | 6703     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.341 | 264  | 6069     | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.203  | 96   | 1128     | 0.578 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.966 | 152  | 383      | 0.035 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.020 | 212  | 814      | 0.036 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.424 | 128  | 3536     | 0.182 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.043 | 142  | 2316     | 0.175 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.263 | 142  | 1738     | 0.133 | ng/ul  | 97       |
| 11) Acenaphthene            | 14.303 | 153  | 1133     | 0.082 | ng/ul  | 96       |
| 12) Fluorene                | 15.293 | 166  | 1813     | 0.114 | ng/ul# | 94       |
| 15) Phenanthrene            | 17.030 | 178  | 30094    | 1.247 | ng/ul  | 97       |
| 16) Anthracene              | 17.120 | 178  | 4966     | 0.220 | ng/ul  | 99       |
| 19) Fluoranthene            | 19.050 | 202  | 28130    | 0.983 | ng/ul  | 98       |
| 20) Pyrene                  | 19.413 | 202  | 21402    | 0.737 | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 21.161 | 228  | 10059    | 0.372 | ng/ul  | 96       |
| 22) Chrysene                | 21.214 | 228  | 10955m   | 0.391 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.699 | 252  | 11361m   | 0.415 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.737 | 252  | 4110m    | 0.145 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.249 | 252  | 7566     | 0.316 | ng/ul# | 89       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.485 | 276  | 4691     | 0.152 | ng/ul# | 98       |
| 28) Dibenzo(a,h)anthracene  | 25.495 | 278  | 1470     | 0.059 | ng/ul# | 44       |
| 29) Benzo(g,h,i)perylene    | 26.139 | 276  | 3707     | 0.140 | ng/ul# | 86       |
| -----                       |        |      |          |       |        |          |

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

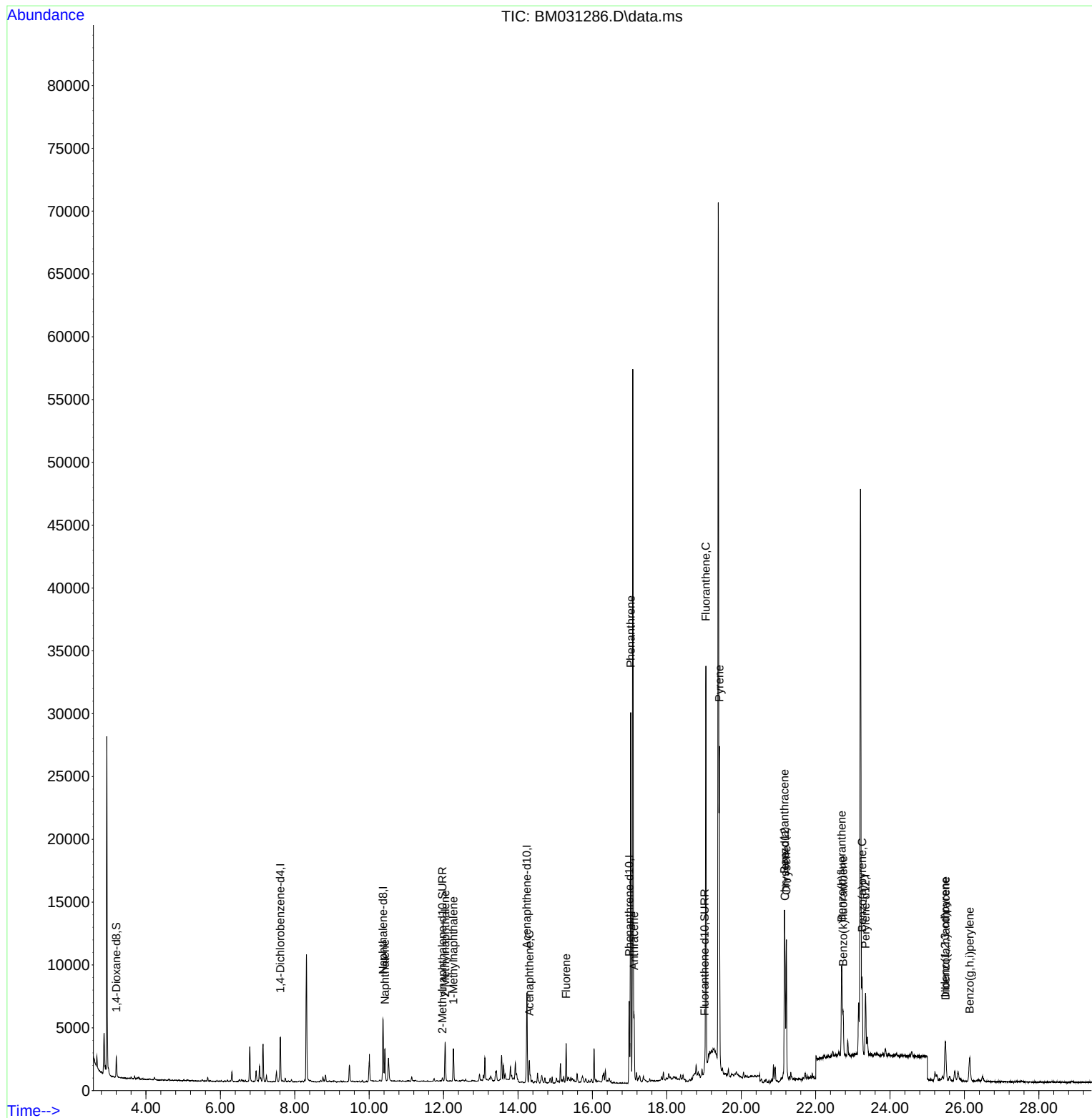
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Data File : BM031286.D  
Acq On : 30 Jul 2021 21:57  
Operator : CG/JU  
Sample : M3084-11DL 5X  
Misc :  
ALS Vial : 49 Sample Multiplier: 1

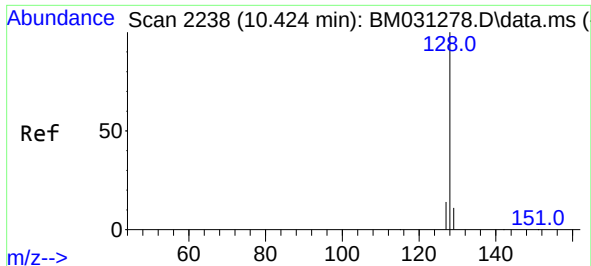
Instrument :  
BNA\_M  
ClientSampleId :  
C0029DL

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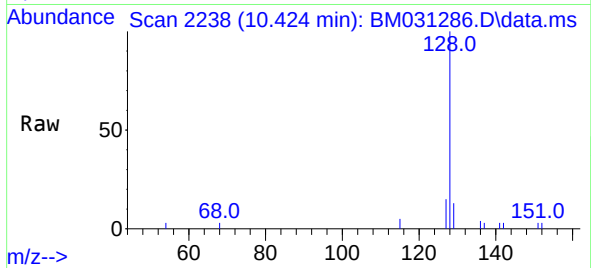
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Quant Time: Jul 30 23:38:48 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM072821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 30 23:38:17 2021  
Response via : Initial Calibration

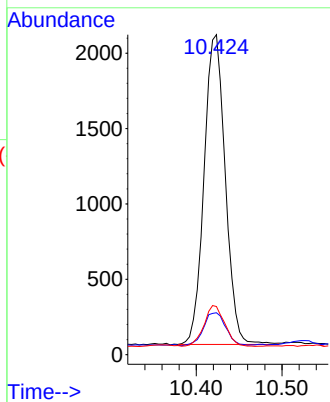
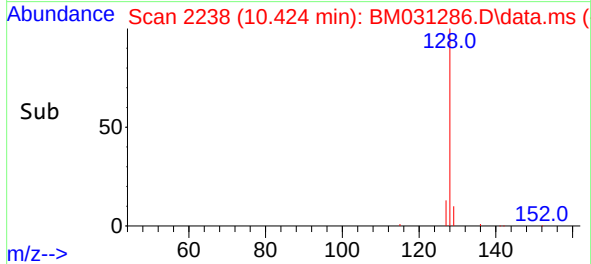




#5  
Naphthalene  
Concen: 0.182 ng/ul  
RT: 10.424 min Scan# 2238  
Delta R.T. 0.001 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57



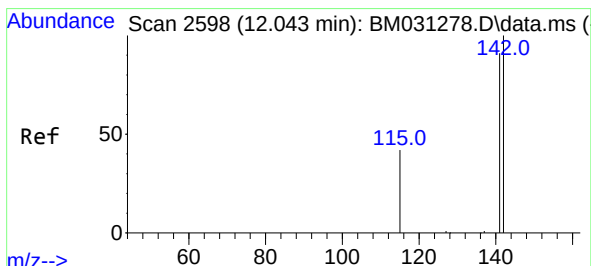
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Ion Ratio Lower Upper  
128 100  
129 13.1 10.0 15.0  
127 15.0 11.6 17.4



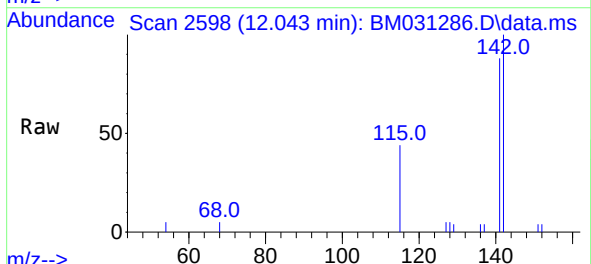
Instrument :  
BNA\_M  
ClientSampled :  
C0029DL

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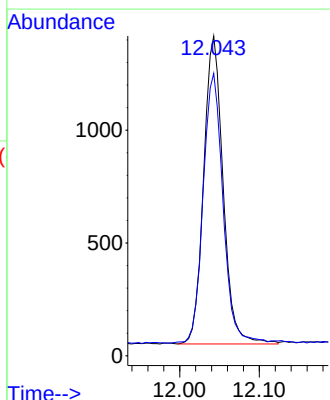
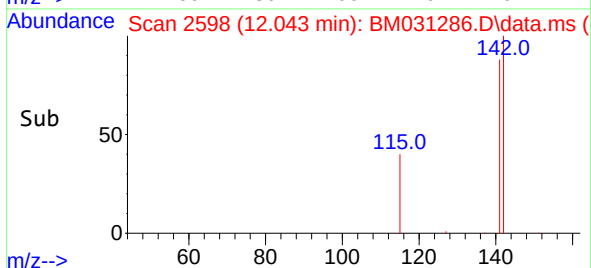
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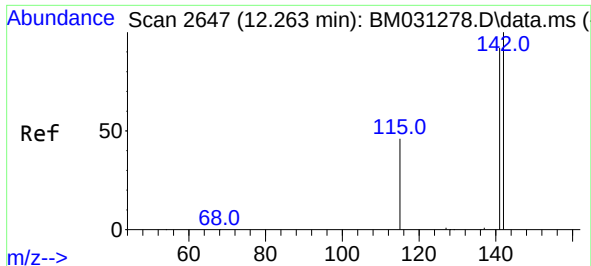


#7  
2-Methylnaphthalene  
Concen: 0.175 ng/ul  
RT: 12.043 min Scan# 2598  
Delta R.T. 0.001 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57



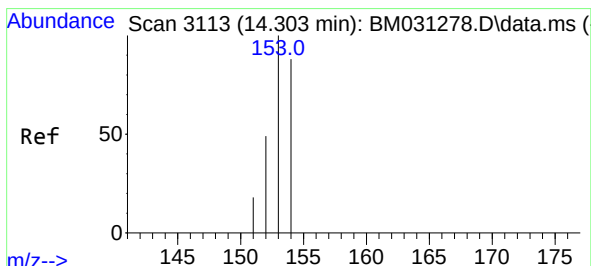
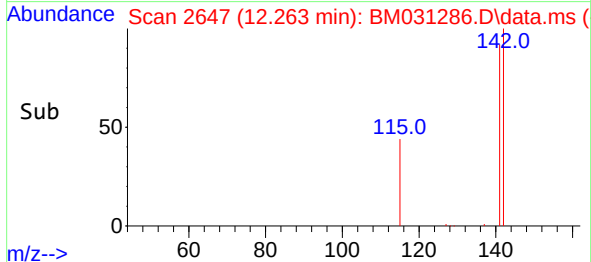
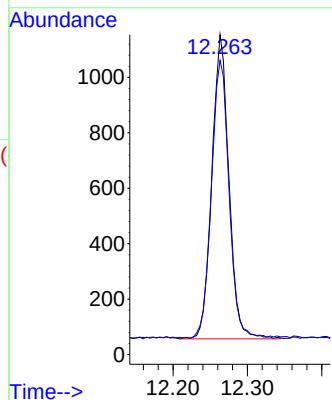
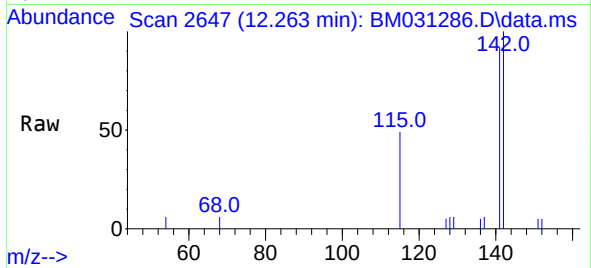
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Ion Ratio Lower Upper  
142 100  
141 89.2 71.4 107.0





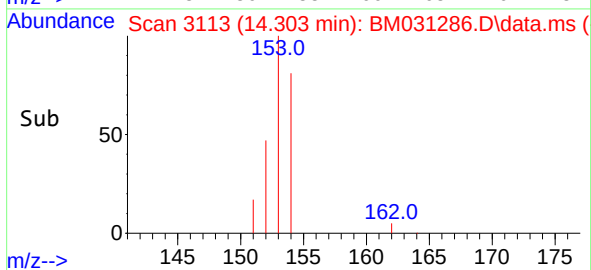
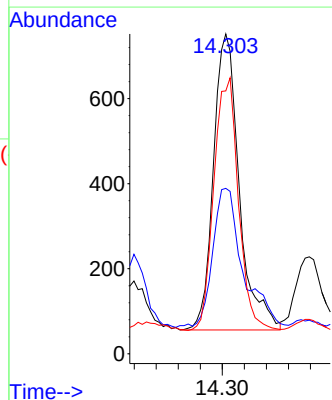
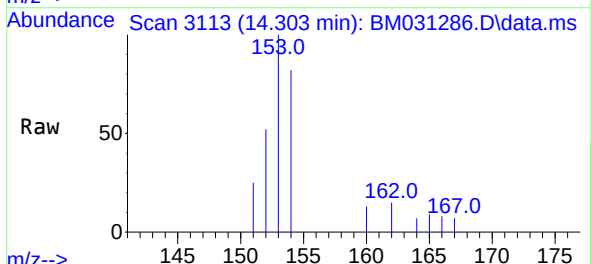
#8  
1-Methylnaphthalene  
Concen: 0.133 ng/ul  
RT: 12.263 min Scan# 2647  
Delta R.T. -0.004 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

Tgt Ion:142 Resp: 1738  
Ion Ratio Lower Upper  
142 100  
141 95.2 74.1 111.1



#11  
Acenaphthene  
Concen: 0.082 ng/ul  
RT: 14.303 min Scan# 3113  
Delta R.T. 0.000 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

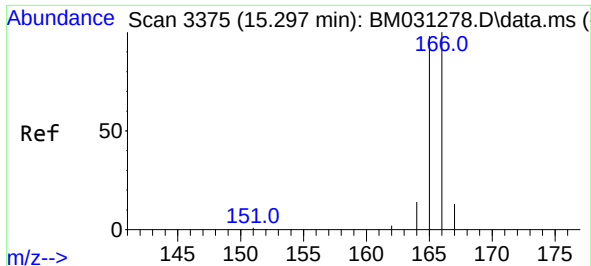
Tgt Ion:153 Resp: 1133  
Ion Ratio Lower Upper  
153 100  
152 51.7 40.7 61.1  
154 82.2 70.2 105.2



Instrument :  
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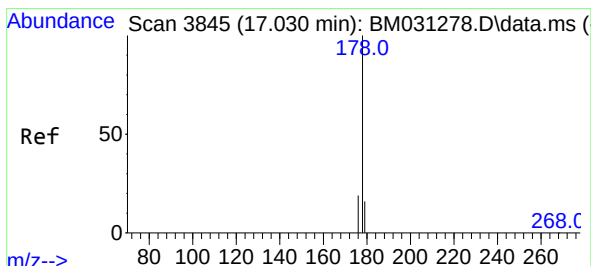
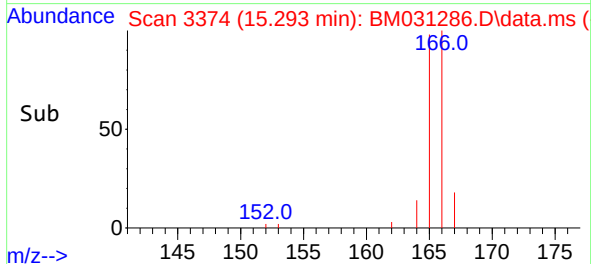
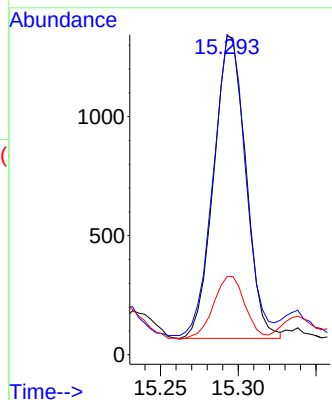
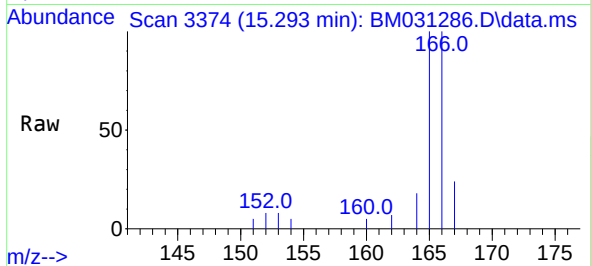
#12  
Fluorene  
Concen: 0.114 ng/ul  
RT: 15.293 min Scan# 3374  
Delta R.T. -0.004 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

Tgt Ion:166 Resp: 1813  
Ion Ratio Lower Upper  
166 100  
165 100.4 78.0 117.0  
167 24.5 12.0 18.0#

Instrument :  
BNA\_M  
ClientSampled :  
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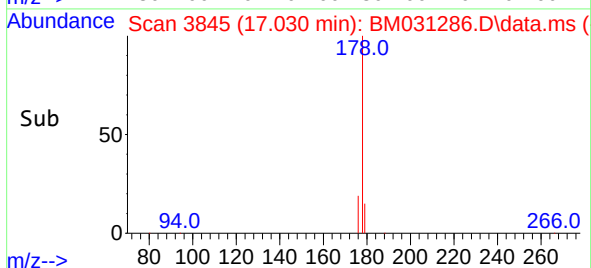
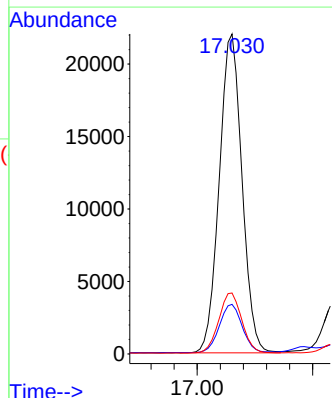
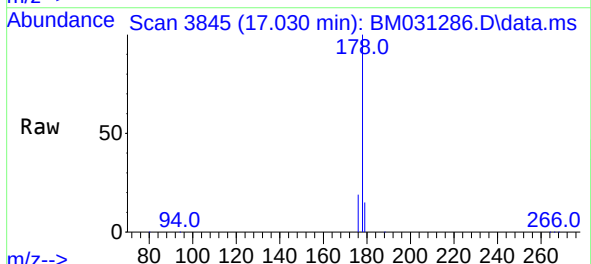
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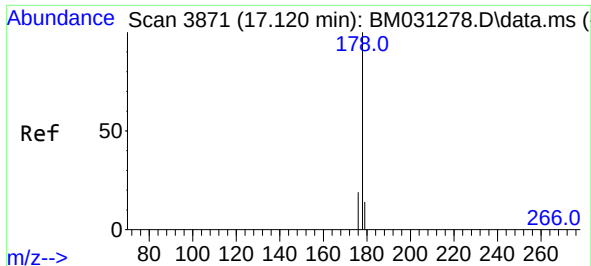
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#15  
Phenanthrene  
Concen: 1.247 ng/ul  
RT: 17.030 min Scan# 3845  
Delta R.T. 0.000 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

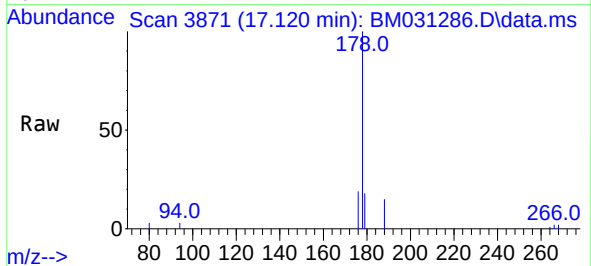
Tgt Ion:178 Resp: 30094  
Ion Ratio Lower Upper  
178 100  
179 15.5 13.3 19.9  
176 19.0 16.2 24.4





#16  
 Anthracene  
 Concen: 0.220 ng/ul  
 RT: 17.120 min Scan# 3871  
 Delta R.T. 0.000 min  
 Lab File: BM031286.D  
 Acq: 30 Jul 2021 21:57

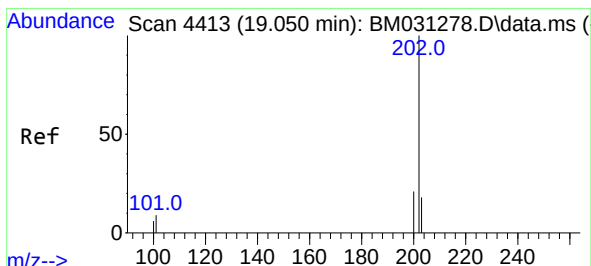
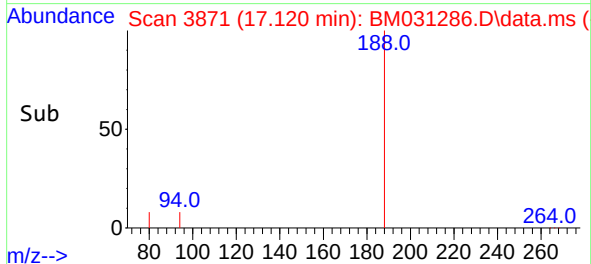
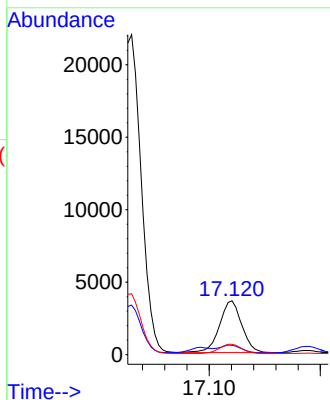
Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0029DL



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 4966 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 17.6  | 13.0  | 19.6 |
| 176       | 19.4  | 15.6  | 23.4 |

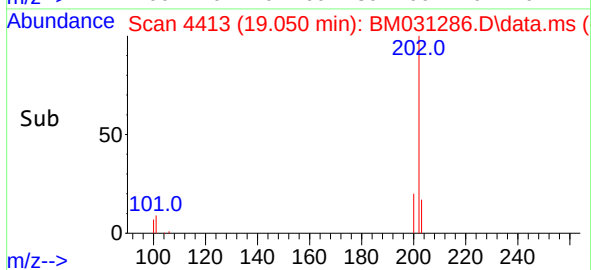
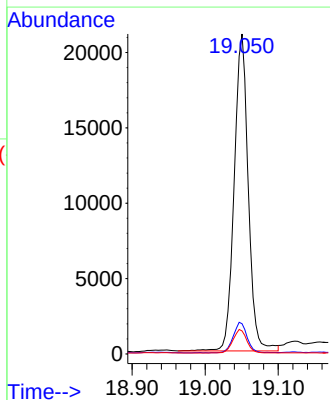
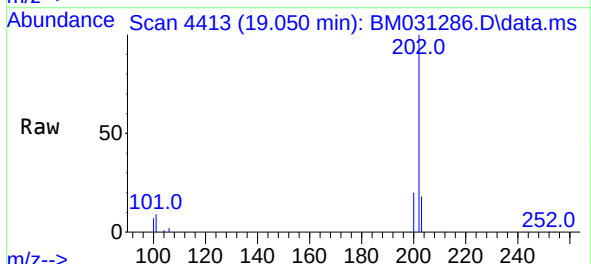
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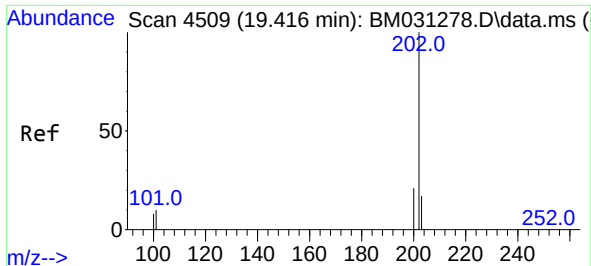
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#19  
 Fluoranthene  
 Concen: 0.983 ng/ul  
 RT: 19.050 min Scan# 4413  
 Delta R.T. 0.000 min  
 Lab File: BM031286.D  
 Acq: 30 Jul 2021 21:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 28130 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.5   | 6.6   | 10.0  |
| 100       | 7.2   | 5.4   | 8.0   |





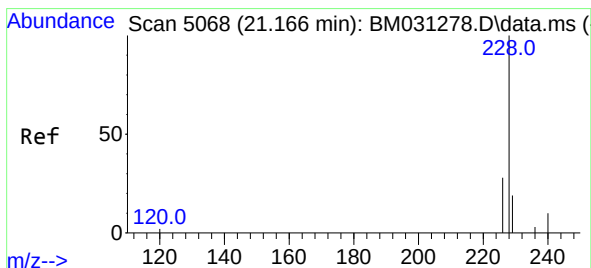
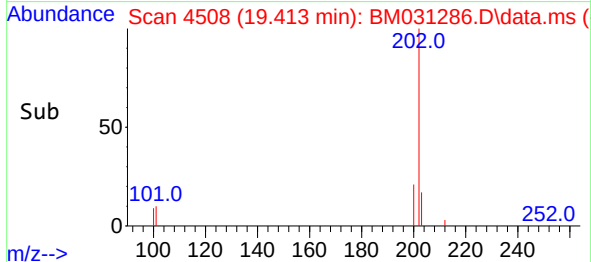
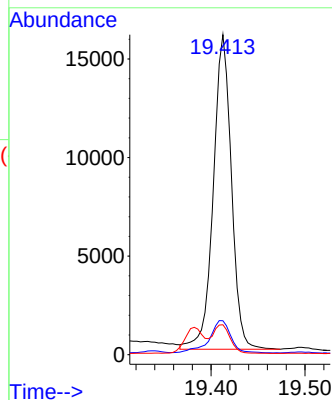
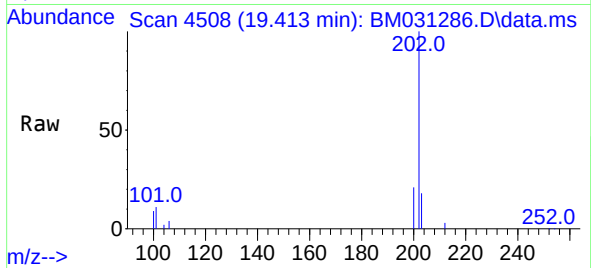
#20  
Pyrene  
Concen: 0.737 ng/ul  
RT: 19.413 min Scan# 4508  
Delta R.T. 0.000 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 21402 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.6  | 7.8   | 11.6  |
| 100       | 9.3   | 6.6   | 10.0  |

Instrument :  
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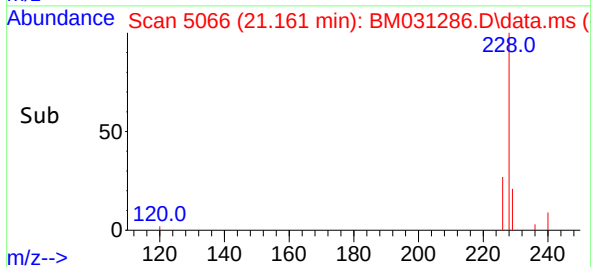
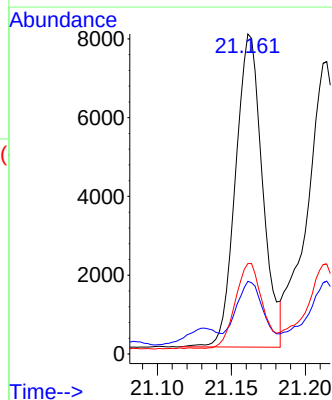
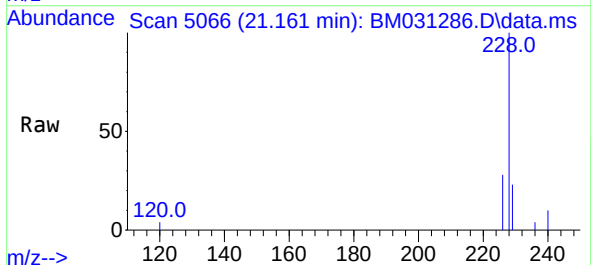
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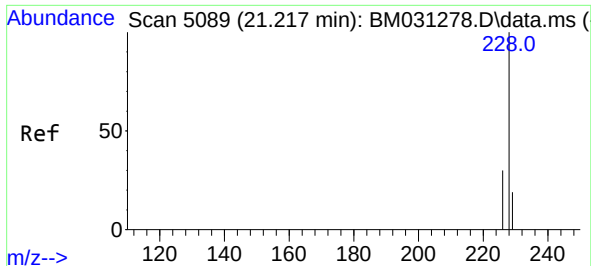
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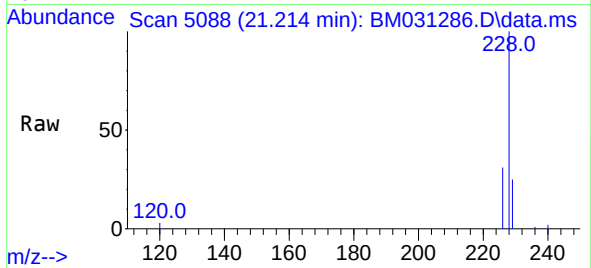
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Benzo(a)anthracene  
Concen: 0.372 ng/ul  
RT: 21.161 min Scan# 5066  
Delta R.T. 0.000 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 10059 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 22.7  | 15.6  | 23.4  |
| 226       | 28.3  | 21.7  | 32.5  |

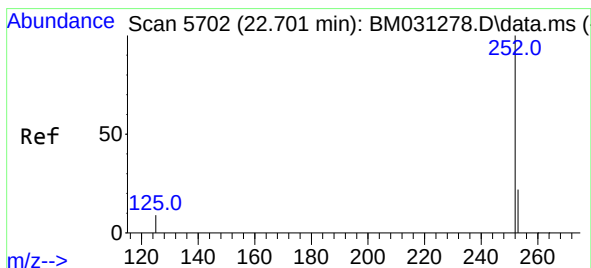
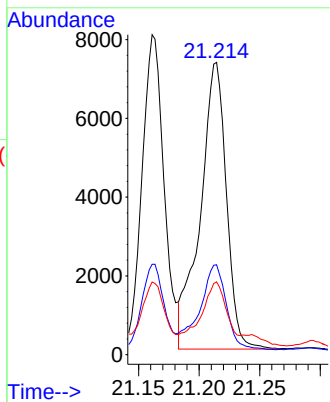
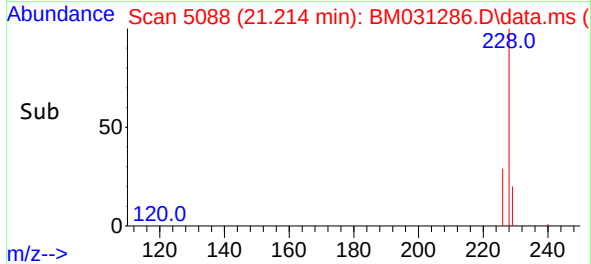




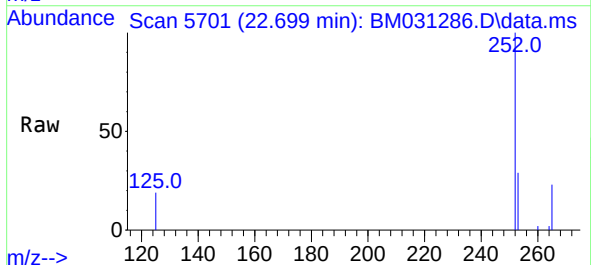
#22  
Chrysene  
Concen: 0.391 ng/ul m  
RT: 21.214 min Scan# 5088  
Delta R.T. 0.000 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57



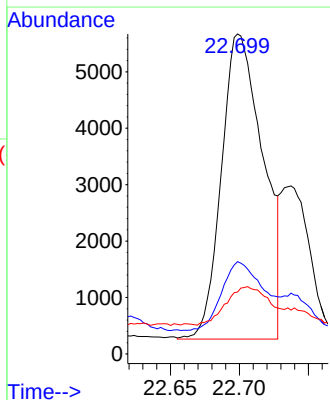
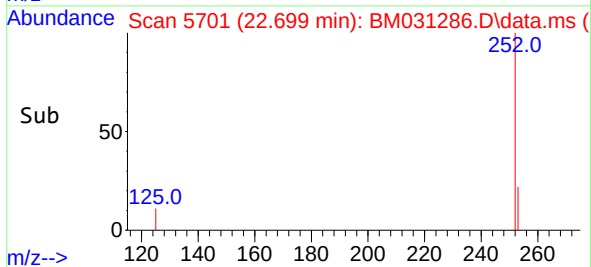
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Ion Ratio Lower Upper  
228 100  
226 30.8 24.7 37.1  
229 24.9 16.2 24.2#



#24  
Benzo(b)fluoranthene  
Concen: 0.415 ng/ul m  
RT: 22.699 min Scan# 5701  
Delta R.T. 0.000 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57



Tgt Ion:252 Resp: 11361  
Ion Ratio Lower Upper  
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125 19.3 0.0 22.8

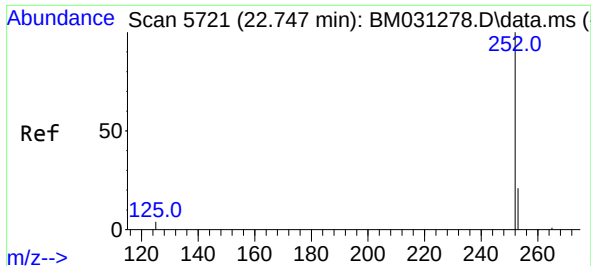


Instrument :  
BNA\_M  
ClientSampled :  
C0029DL

Manual Integrations  
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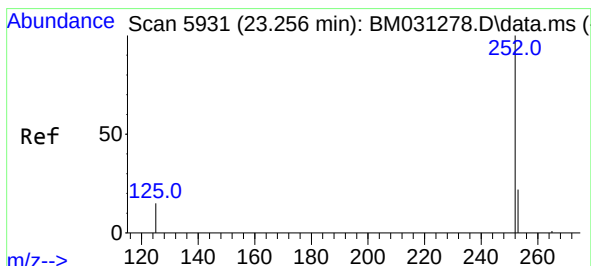
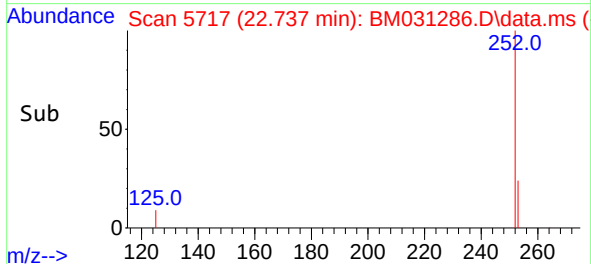
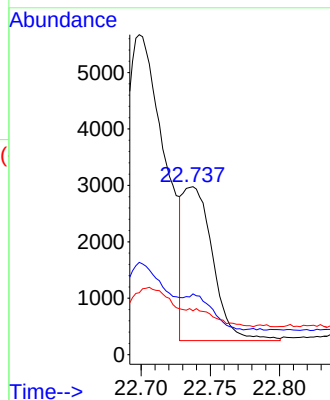
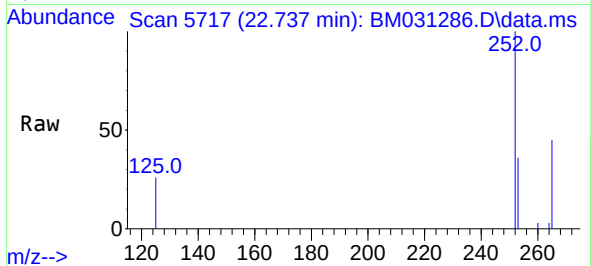
#25  
Benzo(k)fluoranthene  
Concen: 0.145 ng/ul m  
RT: 22.737 min Scan# 5717  
Delta R.T. -0.002 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 4110  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 36.2  | 21.3  | 31.9# |
| 125       | 26.1  | 8.8   | 13.2# |

Instrument :  
BNA\_M  
ClientSampled :  
C0029DL

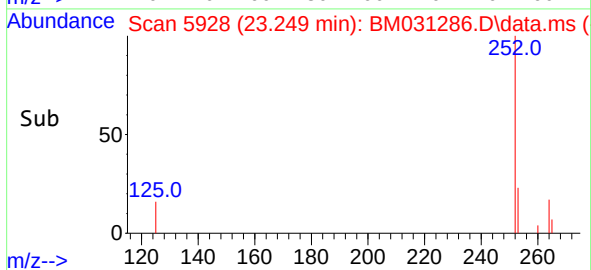
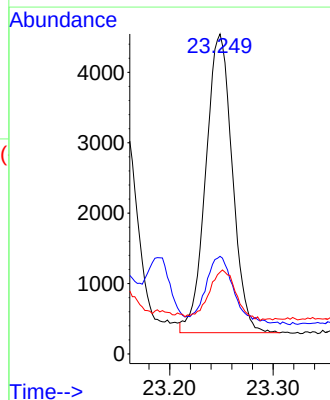
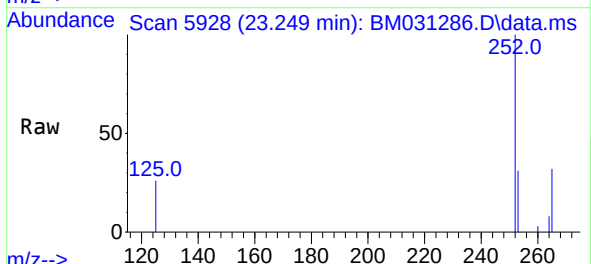
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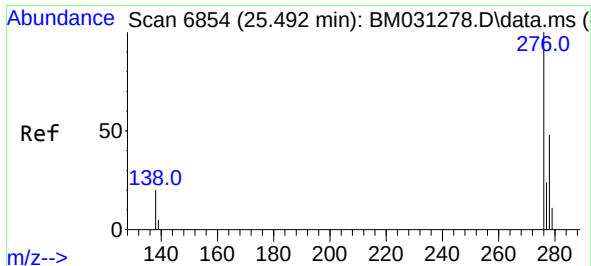
mohammad  
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#26  
Benzo(a)pyrene  
Concen: 0.316 ng/ul  
RT: 23.249 min Scan# 5928  
Delta R.T. 0.000 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 7566  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 30.5  | 22.4  | 33.6  |
| 125       | 25.6  | 13.0  | 19.4# |





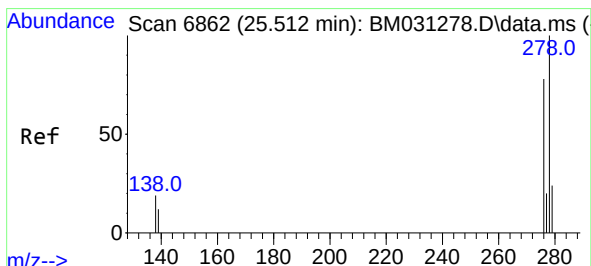
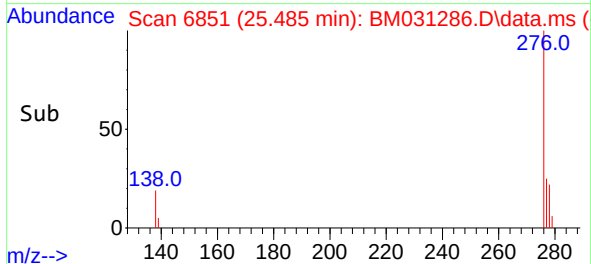
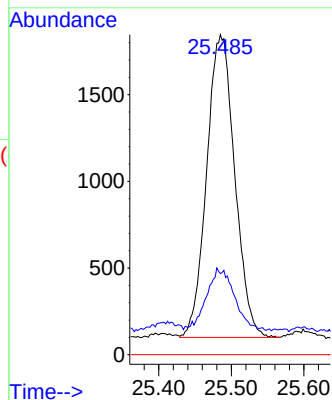
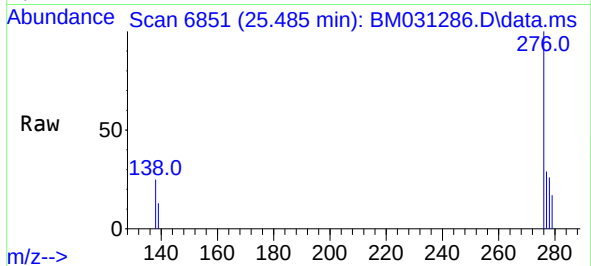
#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.152 ng/ul  
RT: 25.485 min Scan# 6851  
Delta R.T. -0.005 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 4691 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 20.7  | 15.8  | 23.8 |
| 227       | 0.0   | 0.0   | 0.0  |

Instrument :  
BNA\_M  
ClientSampled :  
C0029DL

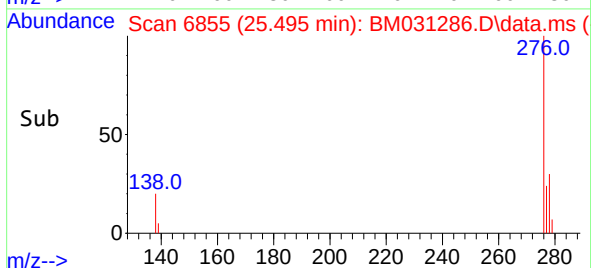
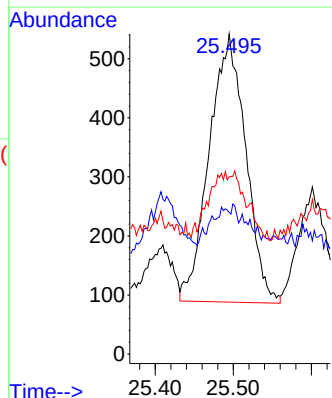
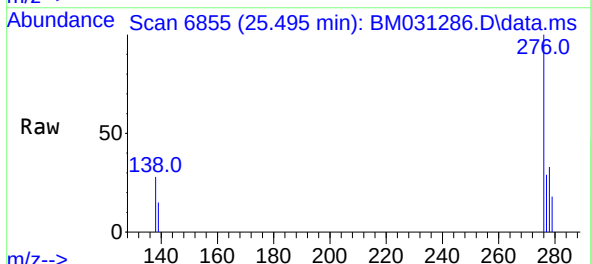
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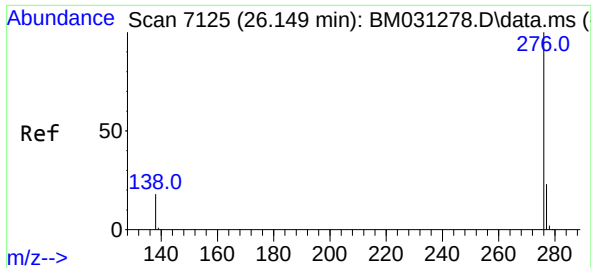
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#28  
Dibenzo(a,h)anthracene  
Concen: 0.059 ng/ul  
RT: 25.495 min Scan# 6855  
Delta R.T. -0.009 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 1470  |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 44.3  | 13.3  | 19.9# |
| 279       | 55.4  | 22.8  | 34.2# |





#29  
Benzo(g,h,i)perylene  
Concen: 0.140 ng/ul  
RT: 26.139 min Scan# 7121  
Delta R.T. -0.005 min  
Lab File: BM031286.D  
Acq: 30 Jul 2021 21:57

| Tgt Ion   | 276  | 138   | 277   |
|-----------|------|-------|-------|
| Resp:     | 3707 |       |       |
| Ion Ratio | 100  | 27.0  | 30.4  |
| Lower     |      | 15.4  | 19.9  |
| Upper     |      | 23.2# | 29.9# |

Instrument :  
BNA\_M  
ClientSampleId :  
C0029DL

Manual Integrations  
APPROVED

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