

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM100220\  
 Data File : BM027589.D  
 Acq On : 02 Oct 2020 19:59  
 Operator : JU/CG  
 Sample : L4166-09  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AD1

Manual Integrations  
 APPROVED

mohammad  
 10/5/2020 10:29:05 AM

Quant Time: Oct 03 01:36:56 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM092320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 02 13:04:03 2020  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|------|--------|----------|
| -----                       |        |      |          |      |        |          |
| Internal Standards          |        |      |          |      |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.798  | 152  | 1187     | 0.40 | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.583 | 136  | 3439     | 0.40 | ng/ul  | # 0.00   |
| 6) Acenaphthene-d10         | 14.427 | 164  | 2538     | 0.40 | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.171 | 188  | 6258     | 0.40 | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.345 | 240  | 6788     | 0.40 | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.607 | 264  | 6870     | 0.40 | ng/ul  | # 0.00   |
|                             |        |      |          |      |        |          |
| System Monitoring Compounds |        |      |          |      |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.171 | 152  | 873      | 0.14 | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.194 | 212  | 2162     | 0.13 | ng/ul  | 0.00     |
|                             |        |      |          |      |        |          |
| Target Compounds            |        |      |          |      |        | Qvalue   |
| 3) Naphthalene              | 10.628 | 128  | 1346     | 0.13 | ng/ul# | 93       |
| 5) 2-Methylnaphthalene      | 12.247 | 142  | 164      | 0.02 | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.146 | 152  | 641      | 0.05 | ng/ul# | 80       |
| 8) Acenaphthene             | 14.491 | 153  | 217      | 0.02 | ng/ul  | 90       |
| 12) Phenanthrene            | 17.209 | 178  | 741      | 0.04 | ng/ul# | 79       |
| 13) Anthracene              | 17.303 | 178  | 974      | 0.05 | ng/ul# | 83       |
| 15) Fluoranthene            | 19.224 | 202  | 4384     | 0.19 | ng/ul  | 98       |
| 17) Pyrene                  | 19.586 | 202  | 23340    | 0.75 | ng/ul# | 96       |
| 18) Benzo(a)anthracene      | 21.330 | 228  | 5519     | 0.21 | ng/ul  | 94       |
| 19) Chrysene                | 21.381 | 228  | 7592     | 0.28 | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.926 | 252  | 14488m   | 0.52 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.967 | 252  | 5259m    | 0.18 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.508 | 252  | 8448     | 0.34 | ng/ul# | 91       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.882 | 276  | 5205     | 0.16 | ng/ul# | 94       |
| 25) Dibenzo(a,h)anthracene  | 25.899 | 278  | 1781     | 0.07 | ng/ul# | 55       |
| 26) Benzo(g,h,i)perylene    | 26.580 | 276  | 4007     | 0.15 | ng/ul# | 92       |
| -----                       |        |      |          |      |        |          |

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

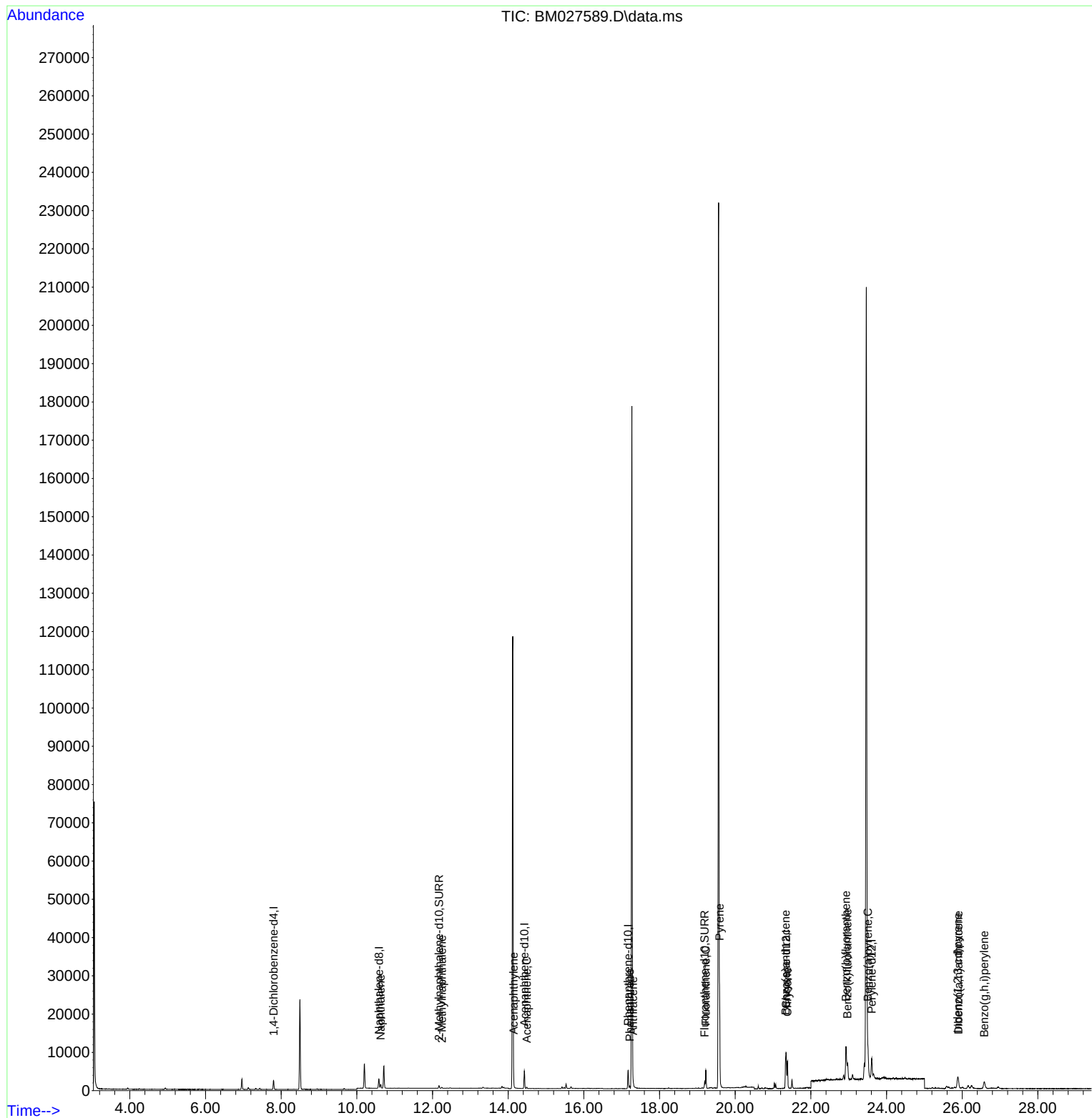
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM100220\  
Data File : BM027589.D  
Acq On : 02 Oct 2020 19:59  
Operator : JU/CG  
Sample : L4166-09  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

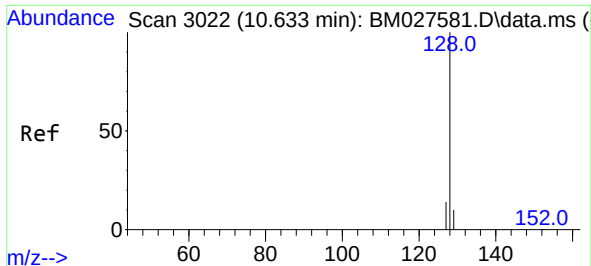
Instrument :  
BNA\_M  
ClientSampleId :  
C0AD1

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Quant Time: Oct 03 01:36:56 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM092320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 02 13:04:03 2020  
Response via : Initial Calibration





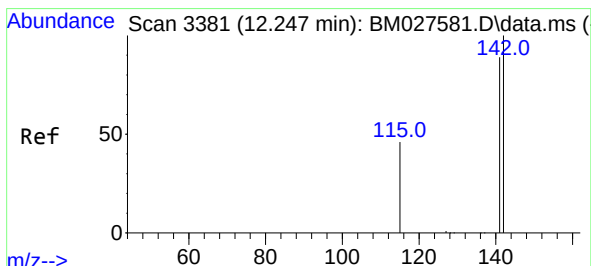
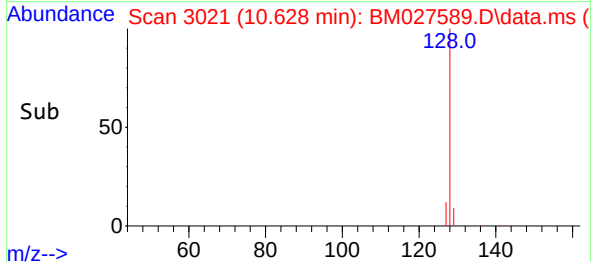
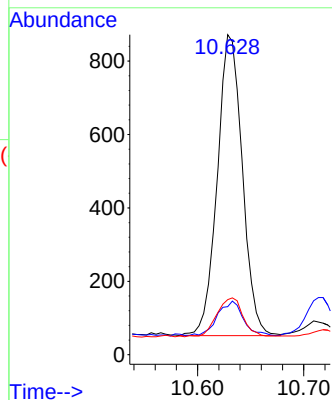
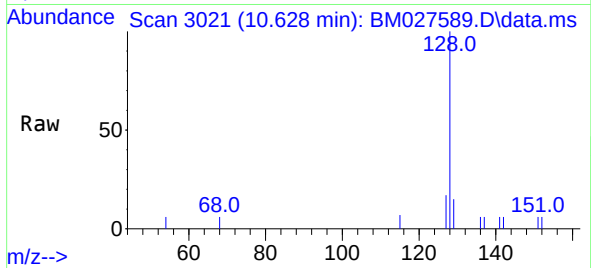
#3  
Naphthalene  
Concen: 0.13 ng/ul  
RT: 10.628 min Scan# 3021  
Delta R.T. -0.004 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

Tgt Ion:128 Resp: 1346  
Ion Ratio Lower Upper  
128 100  
129 15.0 9.9 14.9#  
127 17.2 11.4 17.2#

Instrument :  
BNA\_M  
ClientSampled :  
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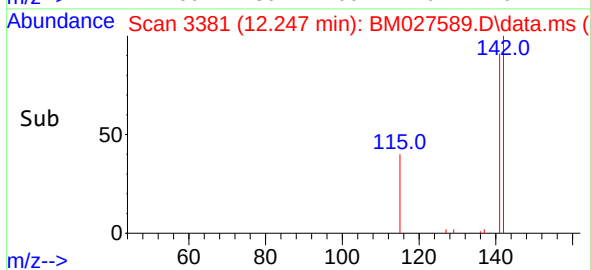
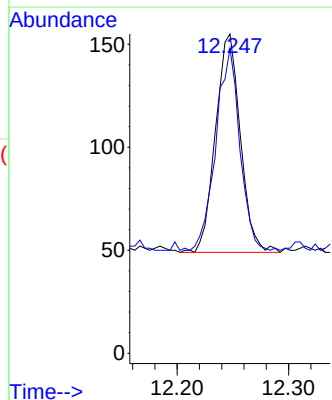
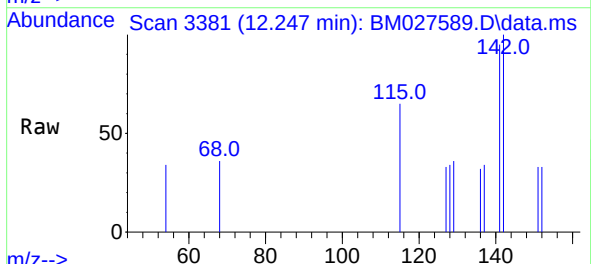
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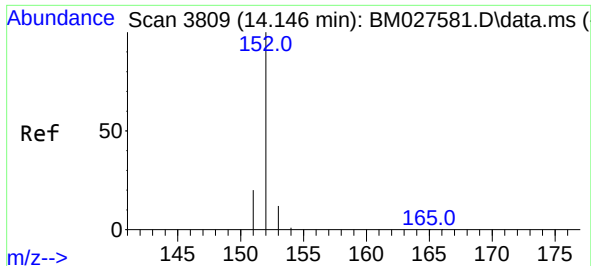
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#5  
2-Methylnaphthalene  
Concen: 0.02 ng/ul  
RT: 12.247 min Scan# 3381  
Delta R.T. 0.000 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

Tgt Ion:142 Resp: 164  
Ion Ratio Lower Upper  
142 100  
141 88.4 70.9 106.3





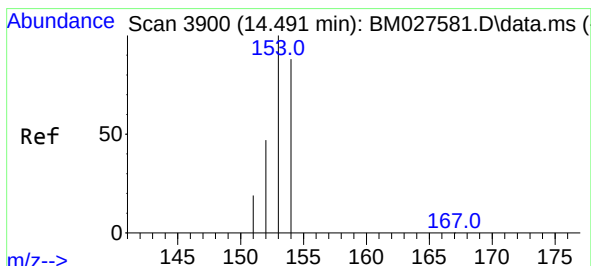
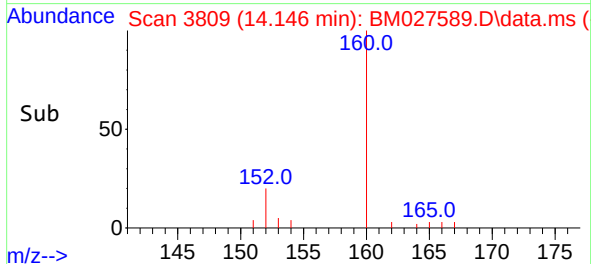
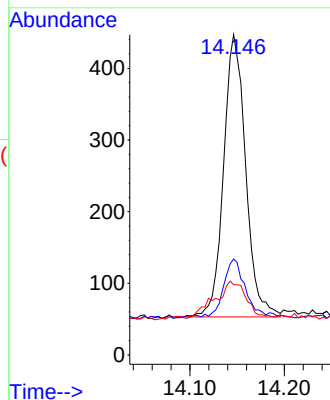
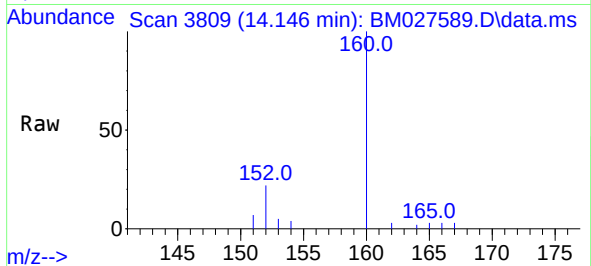
#7  
Acenaphthylene  
Concen: 0.05 ng/ul  
RT: 14.146 min Scan# 3809  
Delta R.T. -0.004 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 641   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 30.0  | 16.6  | 24.8# |
| 153       | 21.9  | 11.4  | 17.0# |

Instrument :  
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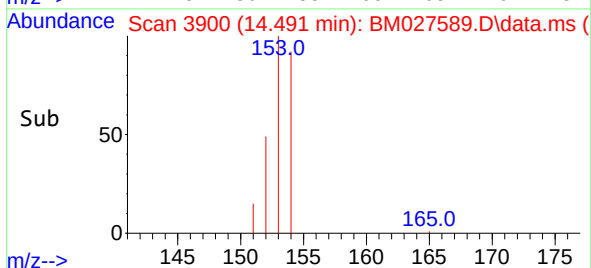
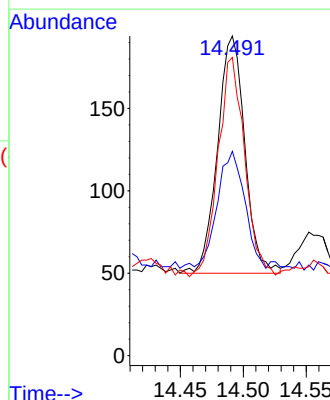
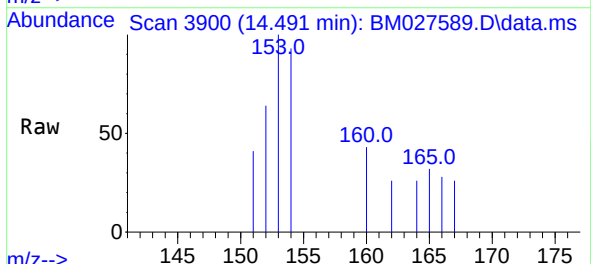
Manual Integrations  
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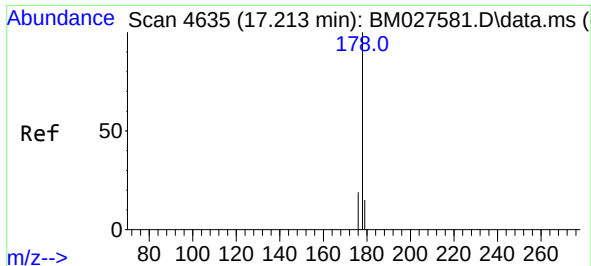
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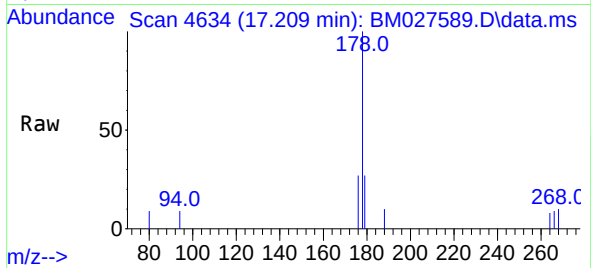
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Acenaphthene  
Concen: 0.02 ng/ul  
RT: 14.491 min Scan# 3900  
Delta R.T. -0.004 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 217   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 63.9  | 42.8  | 64.2  |
| 154       | 93.3  | 69.0  | 103.6 |

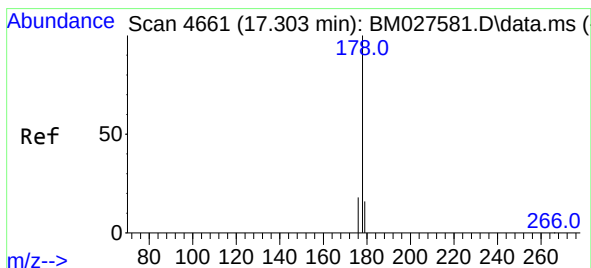
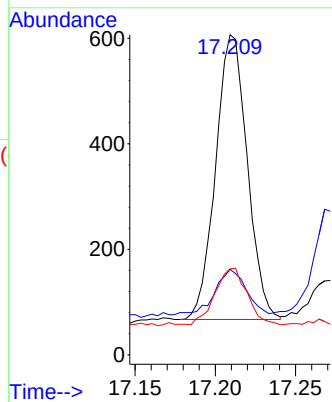
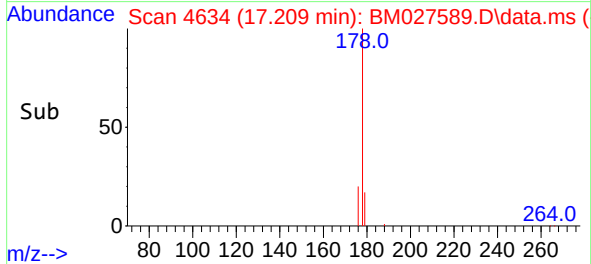




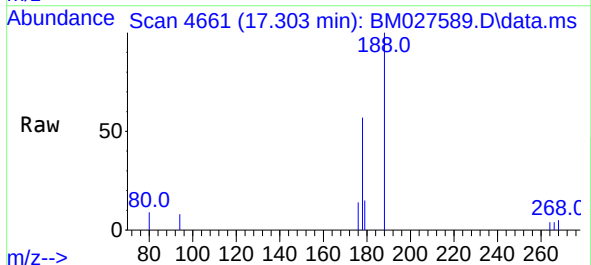
#12  
Phenanthrene  
Concen: 0.04 ng/ul  
RT: 17.209 min Scan# 4634  
Delta R.T. -0.003 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59



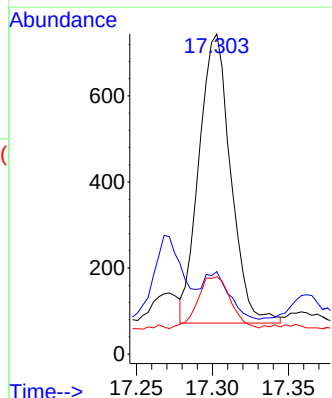
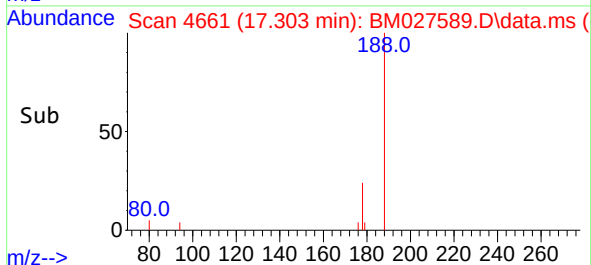
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 741   |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 26.7  | 12.9  | 19.3# |
| 176      | 26.9  | 15.3  | 22.9# |



#13  
Anthracene  
Concen: 0.05 ng/ul  
RT: 17.303 min Scan# 4661  
Delta R.T. 0.000 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59



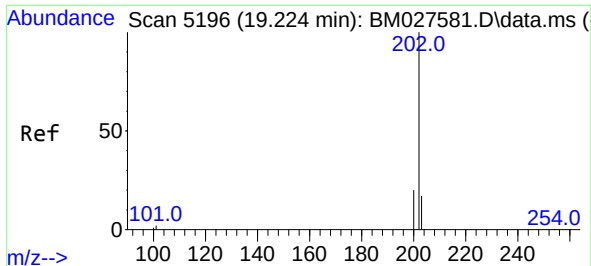
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 974   |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 25.8  | 13.0  | 19.4# |
| 176      | 24.2  | 15.2  | 22.8# |



Instrument :  
BNA\_M  
ClientSampled :  
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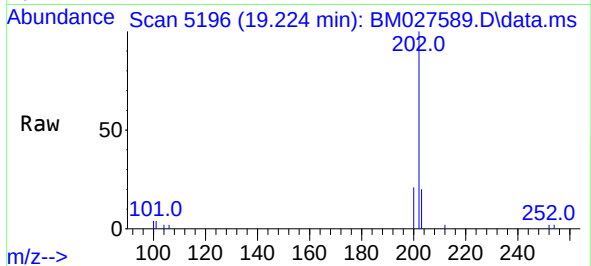
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#15  
Fluoranthene  
Concen: 0.19 ng/ul  
RT: 19.224 min Scan# 5196  
Delta R.T. -0.004 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

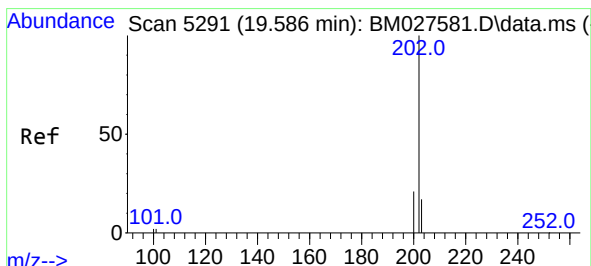
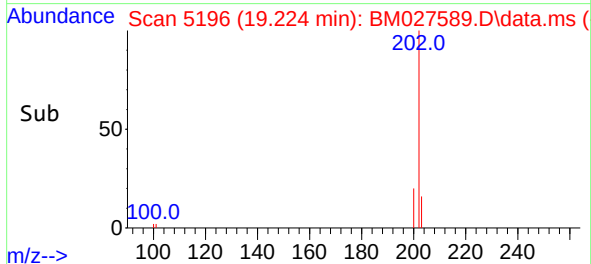
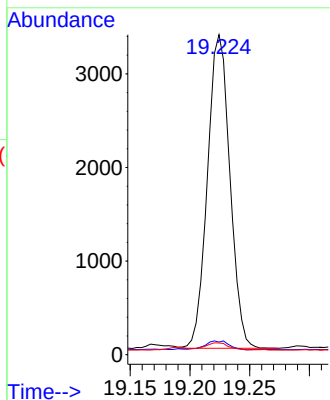
Instrument :  
BNA\_M  
ClientSampleId :  
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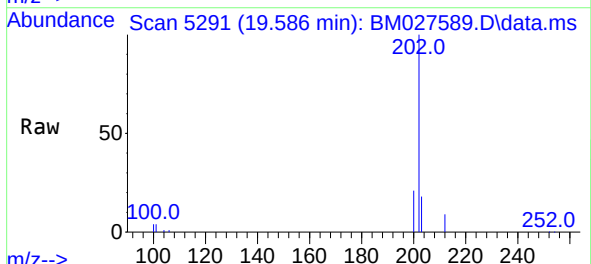
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 4384  |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 3.9   | 0.0   | 24.9  |
| 100      | 3.7   | 0.0   | 24.1  |

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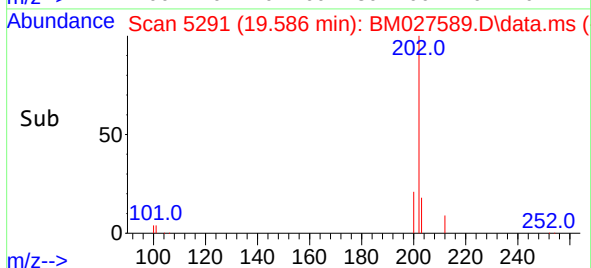
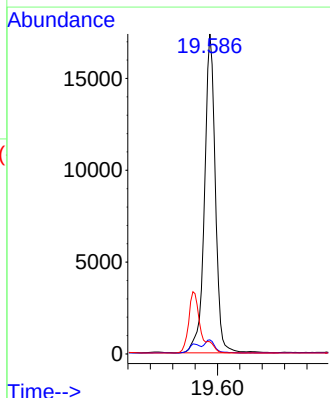
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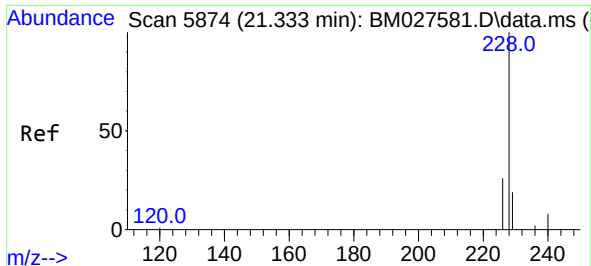


#17  
Pyrene  
Concen: 0.75 ng/ul  
RT: 19.586 min Scan# 5291  
Delta R.T. -0.004 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 23340 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 4.4   | 4.7   | 7.1#  |
| 100      | 3.8   | 3.9   | 5.9#  |





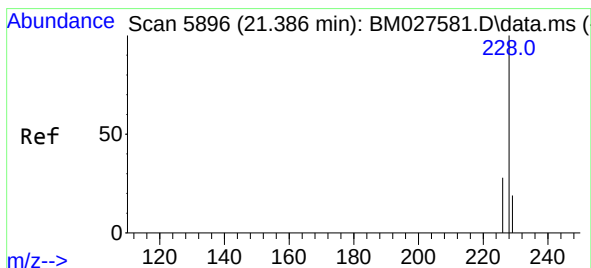
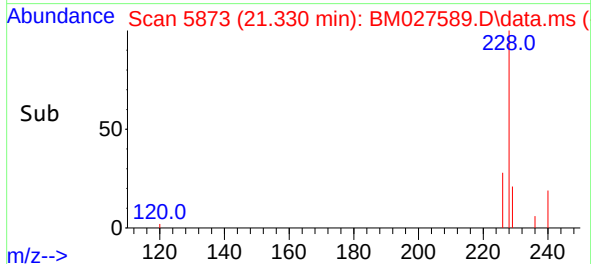
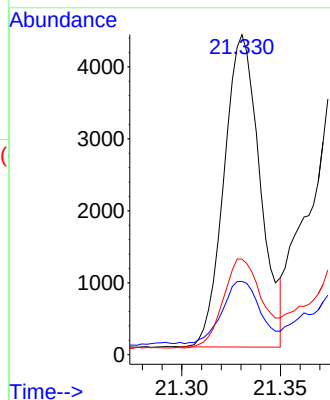
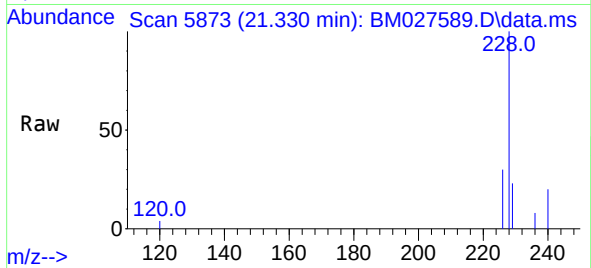
#18  
Benzo(a)anthracene  
Concen: 0.21 ng/ul  
RT: 21.330 min Scan# 5873  
Delta R.T. -0.005 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 5519 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 229       | 22.9  | 15.6  | 23.4 |
| 226       | 29.9  | 21.8  | 32.8 |

Instrument :  
BNA\_M  
ClientSampleId :  
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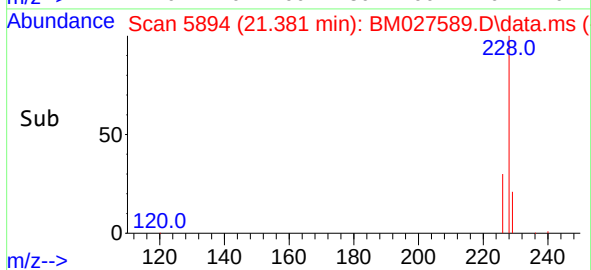
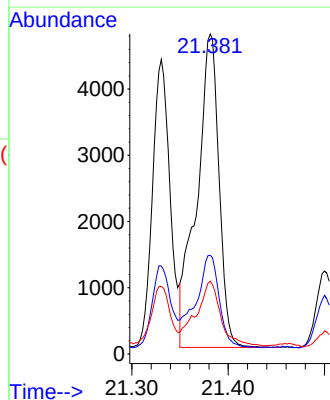
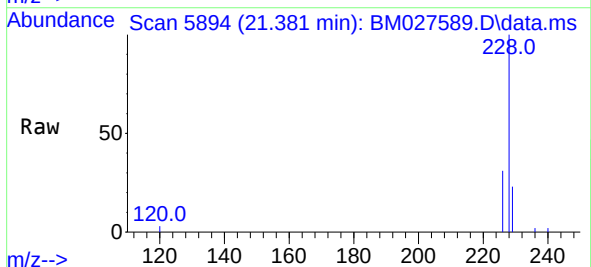
Manual Integrations  
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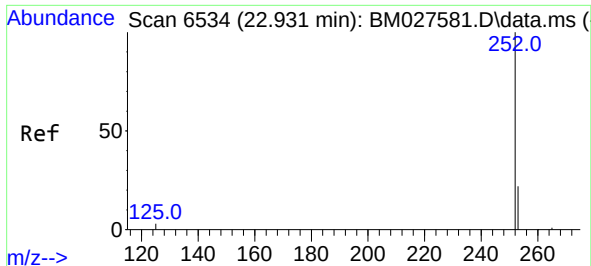
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10/5/2020 10:29:05 AM



#19  
Chrysene  
Concen: 0.28 ng/ul  
RT: 21.381 min Scan# 5894  
Delta R.T. -0.005 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 7592 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 30.8  | 24.2  | 36.4 |
| 229       | 22.8  | 15.8  | 23.8 |





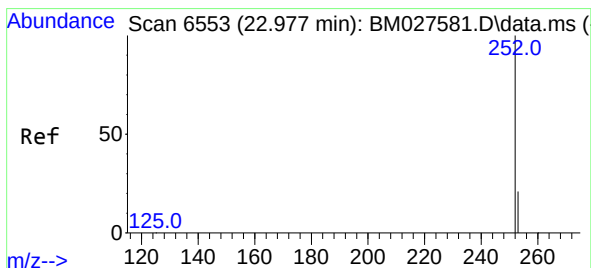
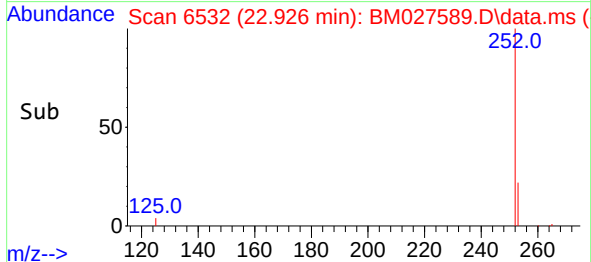
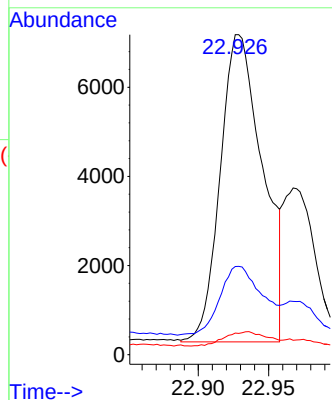
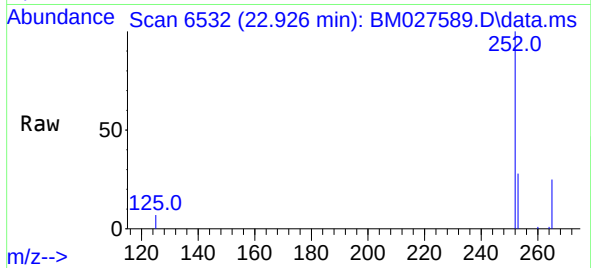
#21  
Benzo(b)fluoranthene  
Concen: 0.52 ng/ul m  
RT: 22.926 min Scan# 6532  
Delta R.T. -0.007 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:252 | Resp: | 14488    |
| Ion Ratio   | Lower | Upper    |
| 252         | 100   |          |
| 253         | 27.6  | 0.0 48.2 |
| 125         | 6.7   | 0.0 10.6 |

Instrument :  
BNA\_M  
ClientSampled :  
C0AD1

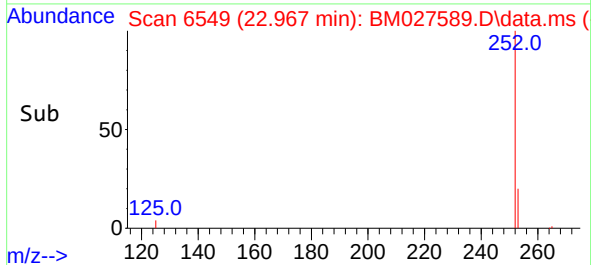
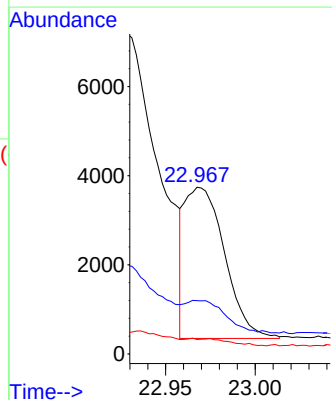
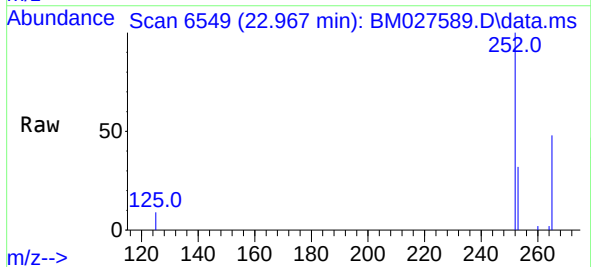
Manual Integrations  
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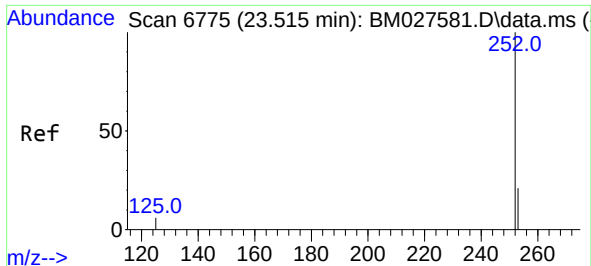


#22  
Benzo(k)fluoranthene  
Concen: 0.18 ng/ul m  
RT: 22.967 min Scan# 6549  
Delta R.T. -0.012 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:252 | Resp: | 5259       |
| Ion Ratio   | Lower | Upper      |
| 252         | 100   |            |
| 253         | 31.9  | 19.1 28.7# |
| 125         | 8.6   | 5.0 7.4#   |







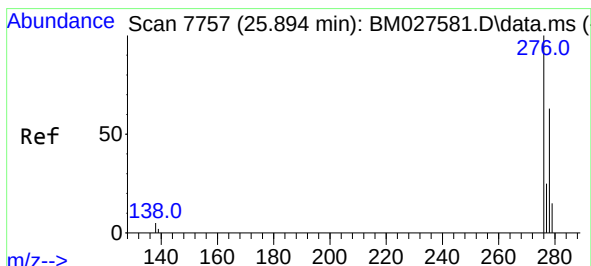
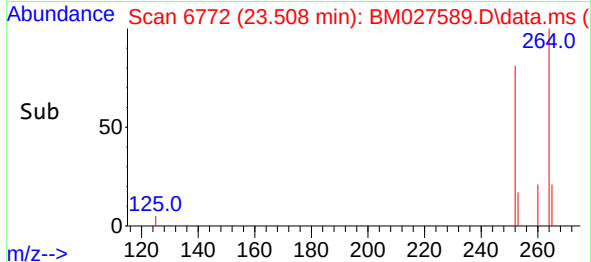
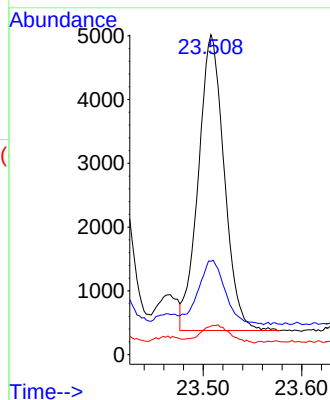
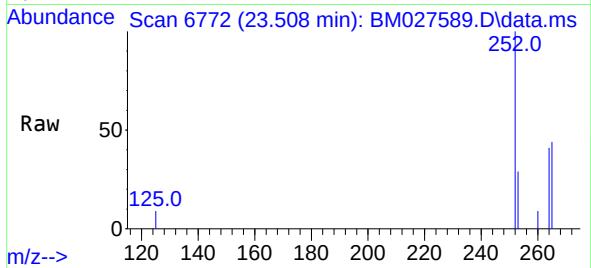
#23  
Benzo(a)pyrene  
Concen: 0.34 ng/ul  
RT: 23.508 min Scan# 6772  
Delta R.T. -0.007 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 8448 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 29.2  | 19.6  | 29.4 |
| 125       | 8.9   | 5.0   | 7.6# |

Instrument :  
BNA\_M  
ClientSampled :  
C0AD1

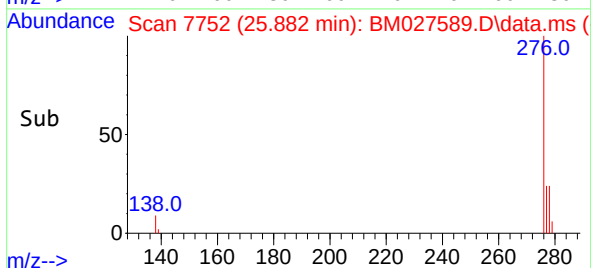
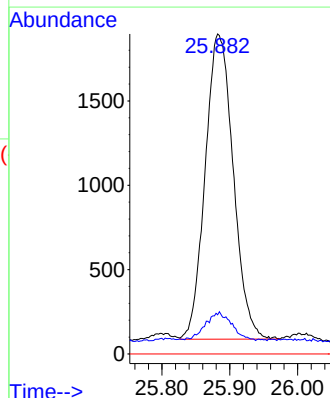
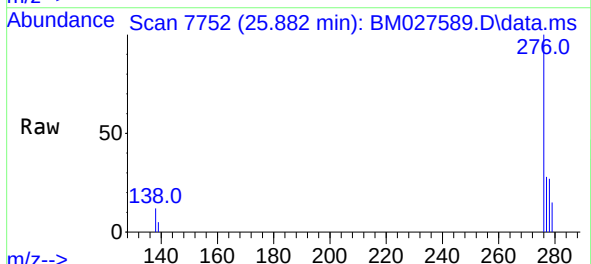
Manual Integrations  
APPROVED

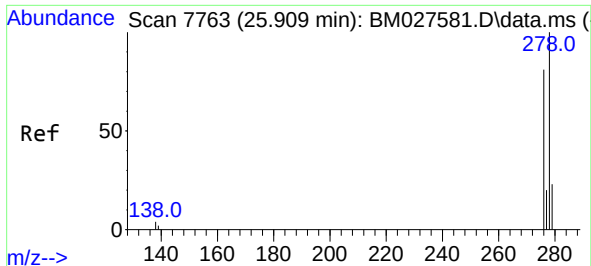
mohammad  
10/5/2020 10:29:05 AM



#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.16 ng/ul  
RT: 25.882 min Scan# 7752  
Delta R.T. -0.012 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 5205 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 8.6   | 8.6   | 12.8 |
| 227       | 0.0   | 0.0   | 0.0  |





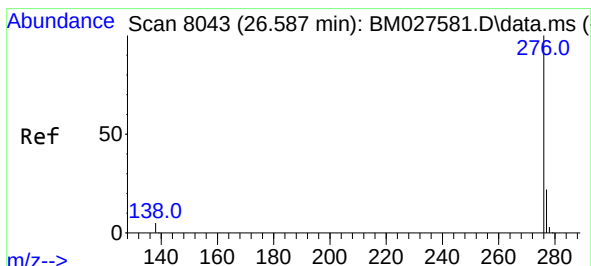
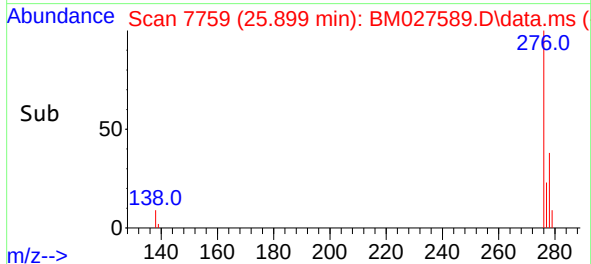
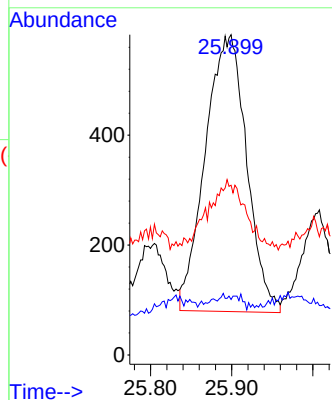
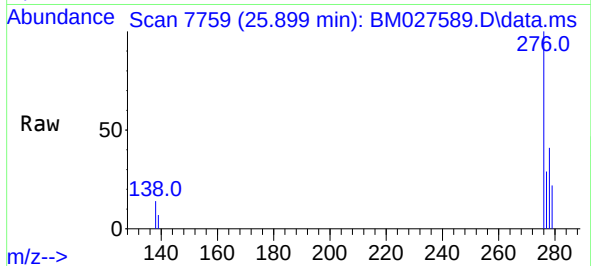
#25  
Dibenzo(a,h)anthracene  
Concen: 0.07 ng/ul  
RT: 25.899 min Scan# 7759  
Delta R.T. -0.012 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

Tgt Ion:278 Resp: 1781  
Ion Ratio Lower Upper  
278 100  
139 17.3 7.6 11.4#  
279 53.0 20.7 31.1#

Instrument :  
BNA\_M  
ClientSampled :  
C0AD1

Manual Integrations  
APPROVED

mohammad  
10/5/2020 10:29:05 AM



#26  
Benzo(g,h,i)perylene  
Concen: 0.15 ng/ul  
RT: 26.580 min Scan# 8040  
Delta R.T. -0.015 min  
Lab File: BM027589.D  
Acq: 02 Oct 2020 19:59

Tgt Ion:276 Resp: 4007  
Ion Ratio Lower Upper  
276 100  
138 14.4 9.0 13.4#  
277 28.2 19.4 29.0

