

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061219\  
 Data File : BM020903.D  
 Acq On : 12 Jun 2019 14:50  
 Operator : HP/JU  
 Sample : K3083-05  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A51F8

Manual Integrations  
 APPROVED

mohammad  
 6/13/2019 9:46:08 AM

Quant Time: Jun 12 17:39:30 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM060619MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Jun 09 01:02:58 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 280168   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.59 | 136  | 1098133  | 20.00 | ng/ul | -0.01    |
| 35) Acenaphthene-d10      | 14.45 | 164  | 609607   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.19 | 188  | 1312399  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.37 | 240  | 1221201  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.66 | 264  | 1430033  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.30  | 96  | 22557   | 3.84  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.97  | 99  | 379682  | 17.71 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.15  | 67  | 248842  | 19.36 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.33  | 132 | 335217  | 19.63 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.50  | 113 | 299174  | 17.35 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.96  | 128 | 161156  | 21.50 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 9.68  | 143 | 174245  | 22.58 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.22 | 165 | 328632  | 20.42 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.73 | 131 | 265098  | 13.68 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.85 | 166 | 1043086 | 23.13 | ng/ul | -0.01 |
| 46) Acenaphthylene-d8          | 14.13 | 160 | 1206367 | 21.10 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.65 | 143 | 104739  | 13.54 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.44 | 176 | 834923  | 21.79 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.56 | 200 | 70873   | 10.56 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.29 | 188 | 1185267 | 20.68 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.58 | 212 | 1295194 | 21.94 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.51 | 264 | 1350098 | 20.77 | ng/ul | 0.00  |

## Target Compounds

|                            |       |     |         |              | Ovalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 6) Phenol                  | 6.99  | 94  | 26689   | 1.209 ng/ul  | 97     |
| 44) Dimethylphthalate      | 13.90 | 163 | 658181  | 14.577 ng/ul | 100    |
| 69) Phenanthrene           | 17.23 | 178 | 200754  | 3.039 ng/ul  | 99     |
| 76) Fluoranthene           | 19.24 | 202 | 809043  | 10.689 ng/ul | 99     |
| 79) Pyrene                 | 19.61 | 202 | 622582  | 8.259 ng/ul  | 99     |
| 82) Benzo(a)anthracene     | 21.36 | 228 | 278253  | 3.653 ng/ul  | 96     |
| 84) Chrysene               | 21.41 | 228 | 413075  | 5.844 ng/ul  | 99     |
| 87) Benzo(b)fluoranthene   | 22.97 | 252 | 639612  | 7.689 ng/ul  | 99     |
| 88) Benzo(k)fluoranthene   | 23.01 | 252 | 210564m | 2.648 ng/ul  |        |
| 90) Benzo(a)pyrene         | 23.56 | 252 | 360079  | 4.550 ng/ul  | 96     |
| 91) Indeno(1,2,3-cd)pyrene | 25.96 | 276 | 313368  | 3.352 ng/ul  | 96     |
| 93) Benzo(g,h,i)perylene   | 26.67 | 276 | 267973  | 3.534 ng/ul  | 98     |

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

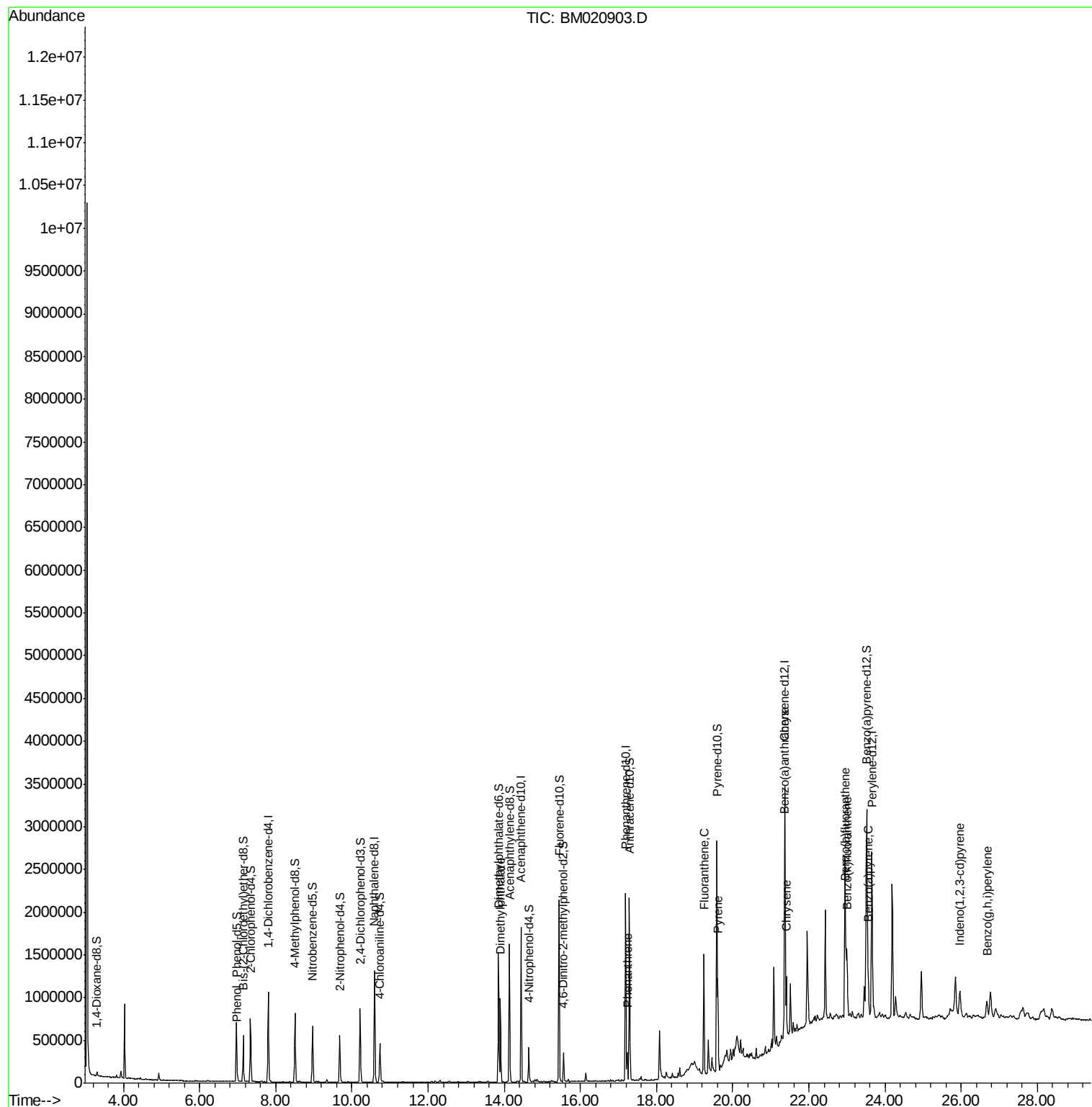
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061219\  
Data File : BM020903.D  
Acq On : 12 Jun 2019 14:50  
Operator : HP/JU  
Sample : K3083-05  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

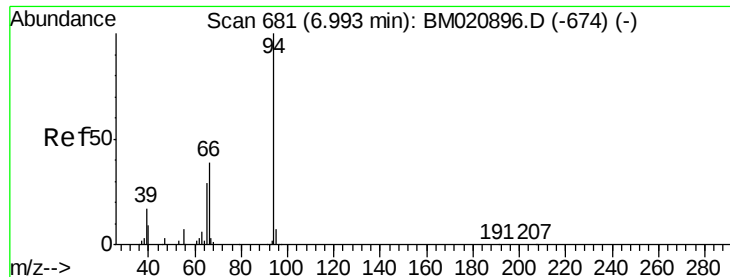
Instrument :  
BNA\_M  
ClientSampleId :  
A51F8

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Quant Time: Jun 12 17:39:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM060619MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sun Jun 09 01:02:58 2019  
Response via : Initial Calibration





#6

Phenol

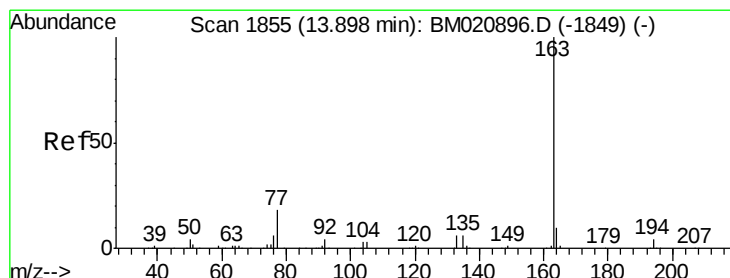
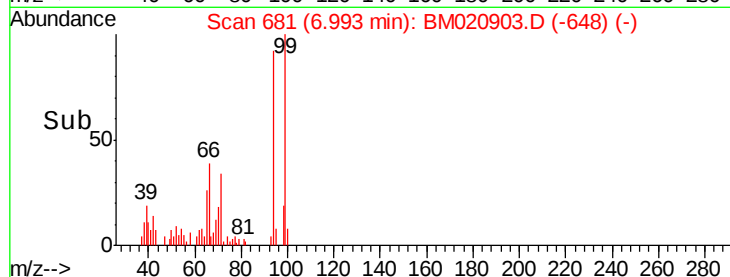
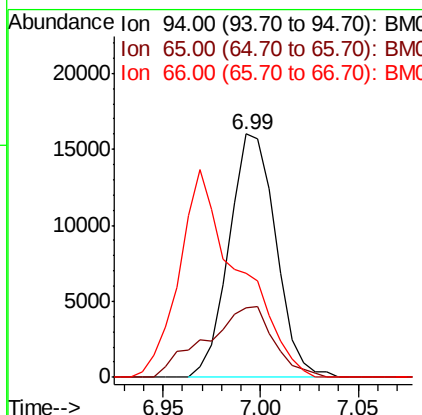
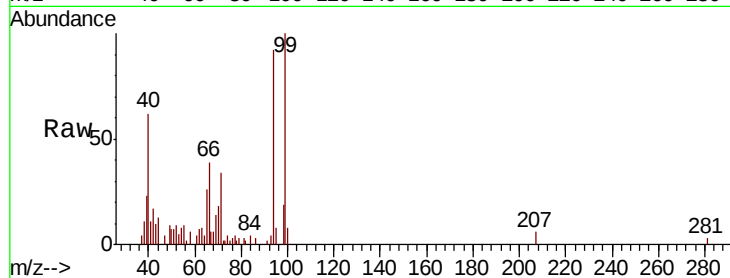
Concen: 1.209 ng/ul  
 RT: 6.99 min Scan# 681  
 Delta R.T. -0.01 min  
 Lab File: BM020903.D  
 Acq: 12 Jun 2019 14:50

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A51F8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 28.4  | 23.3  | 34.9  |
| 66      | 42.6  | 32.1  | 48.1  |

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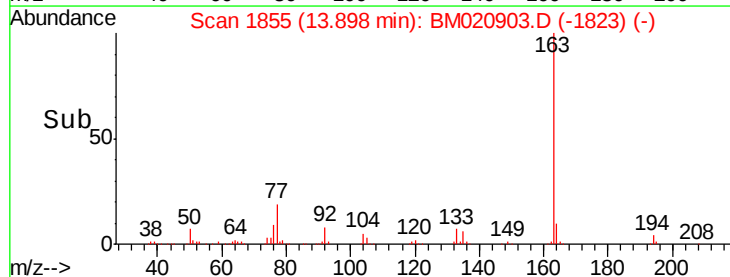
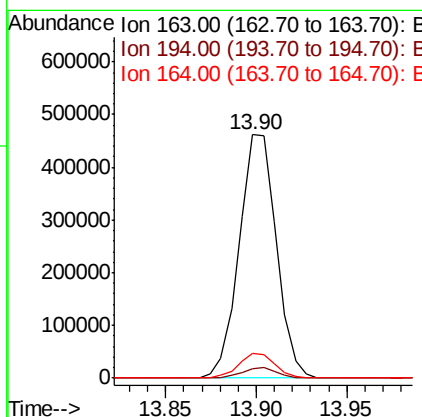
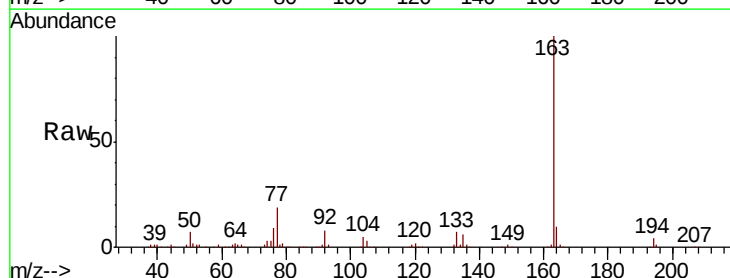


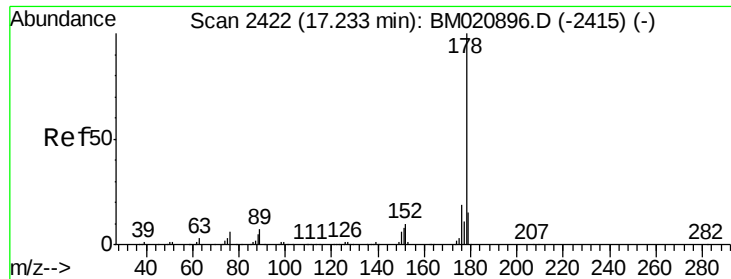
#44

Dimethylphthalate

Concen: 14.577 ng/ul  
 RT: 13.90 min Scan# 1855  
 Delta R.T. -0.01 min  
 Lab File: BM020903.D  
 Acq: 12 Jun 2019 14:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.1   | 3.2   | 4.8   |
| 164     | 10.1  | 8.0   | 12.0  |





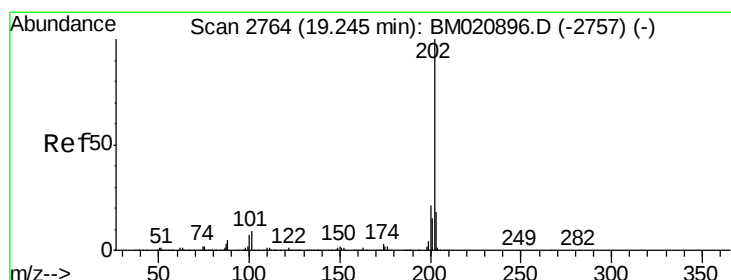
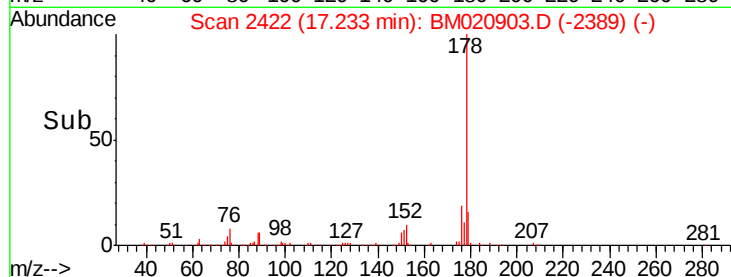
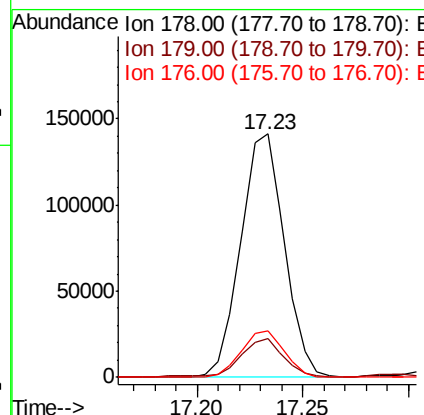
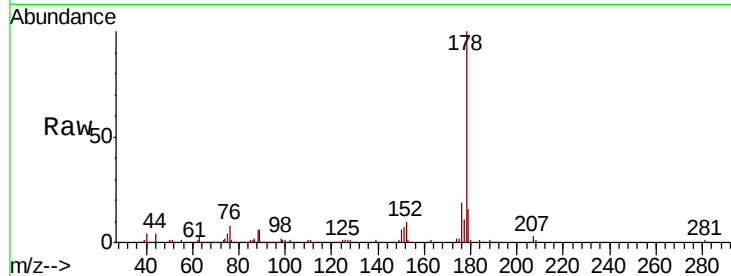
#69  
Phenanthrene  
Concen: 3.039 ng/ul  
RT: 17.23 min Scan# 2422  
Delta R.T. -0.01 min  
Lab File: BM020903.D  
Acq: 12 Jun 2019 14:50

Instrument :  
BNA\_M  
ClientSampleId :  
A51F8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.8  | 12.3  | 18.5  |
| 176     | 19.1  | 14.8  | 22.2  |

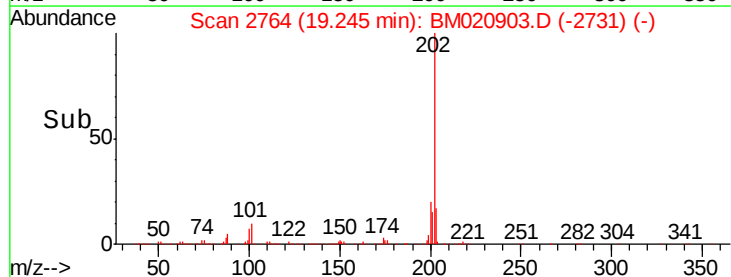
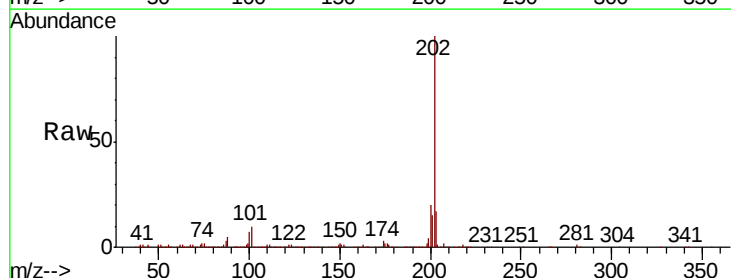
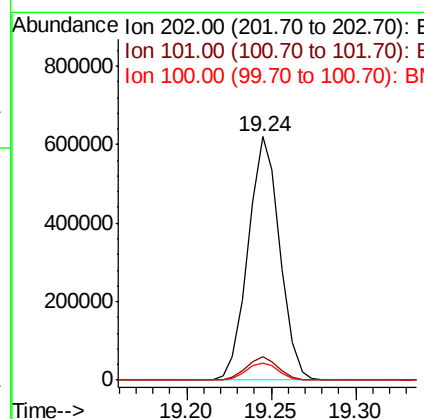
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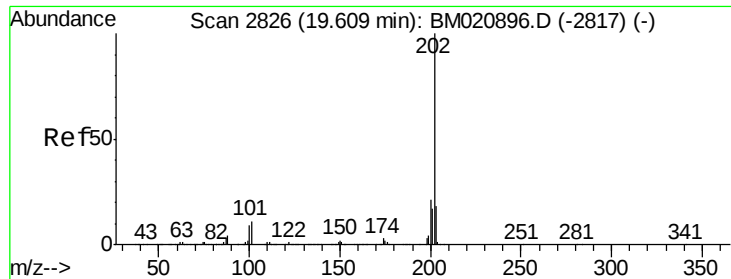
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#76  
Fluoranthene  
Concen: 10.689 ng/ul  
RT: 19.24 min Scan# 2764  
Delta R.T. -0.01 min  
Lab File: BM020903.D  
Acq: 12 Jun 2019 14:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.6   | 7.9   | 11.9  |
| 100     | 7.1   | 6.2   | 9.4   |





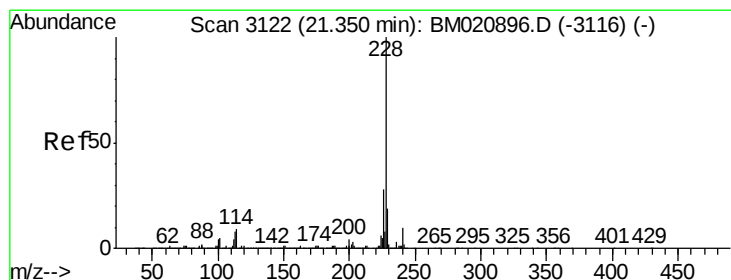
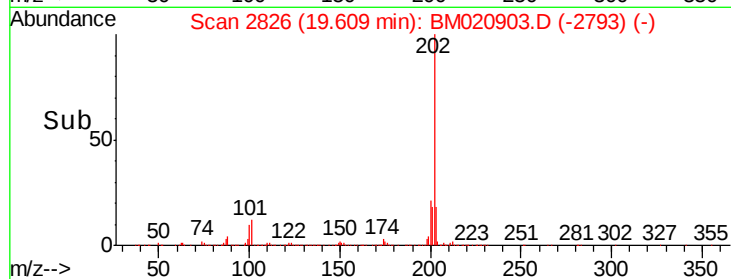
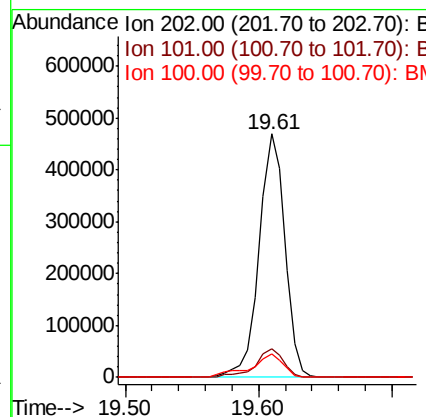
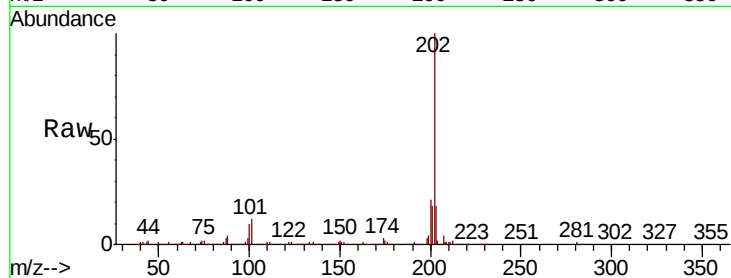
#79  
Pvrene  
Concen: 8.259 ng/ul  
RT: 19.61 min Scan# 2826  
Delta R.T. -0.01 min  
Lab File: BM020903.D  
Acq: 12 Jun 2019 14:50

Instrument :  
BNA\_M  
ClientSampleId :  
A51F8

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.8  | 9.8        | 14.6  |
| 100     | 9.8   | 8.0        | 12.0  |

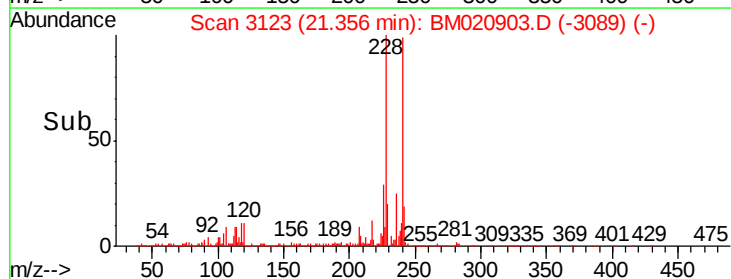
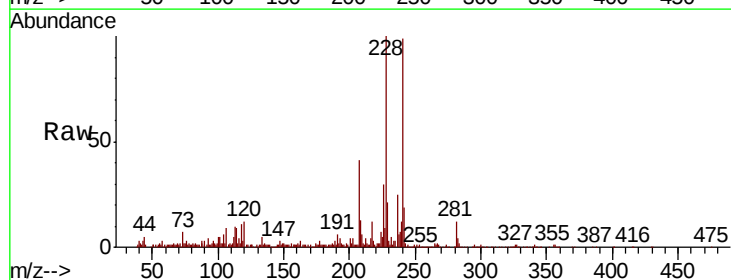
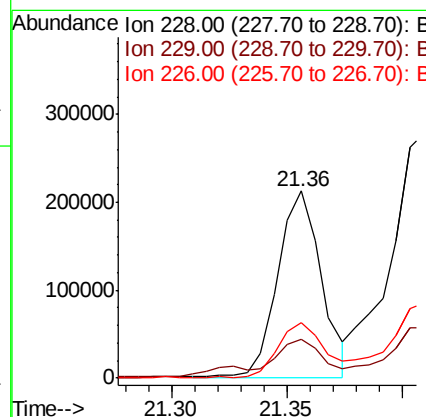
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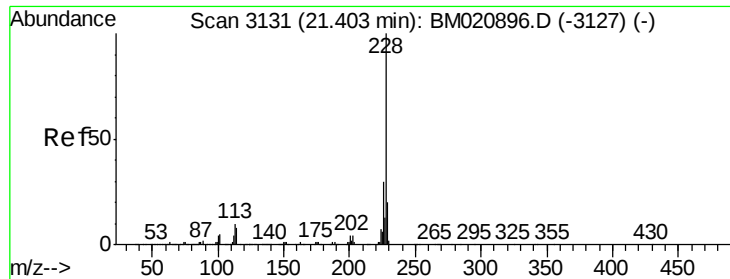
mohammad  
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#82  
Benzo(a)anthracene  
Concen: 3.653 ng/ul  
RT: 21.36 min Scan# 3123  
Delta R.T. 0.00 min  
Lab File: BM020903.D  
Acq: 12 Jun 2019 14:50

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.7  | 15.6       | 23.4  |
| 226     | 29.7  | 21.4       | 32.2  |





#84

Chrysene

Concen: 5.844 ng/ul

RT: 21.41 min Scan# 3132

Delta R.T. 0.00 min

Lab File: BM020903.D

Acq: 12 Jun 2019 14:50

Instrument :

BNA\_M

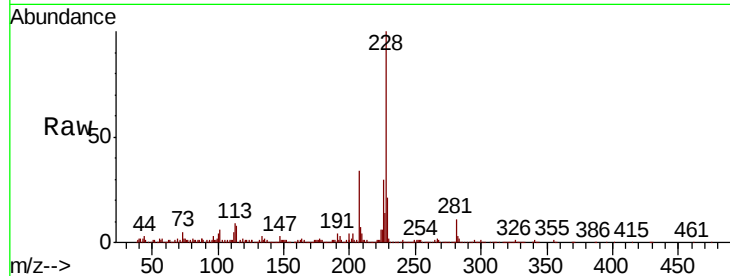
ClientSampleId :

A51F8

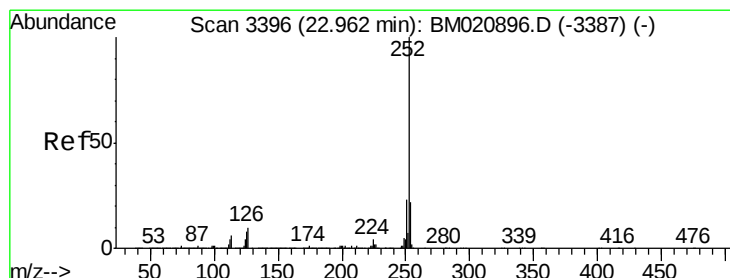
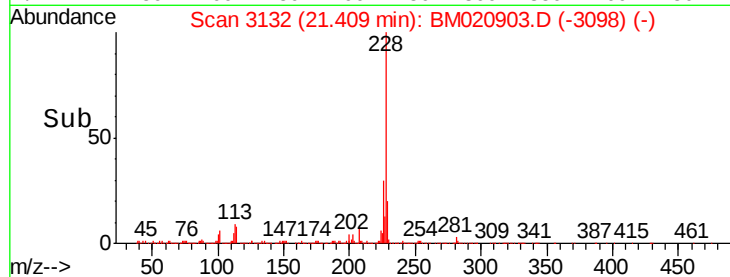
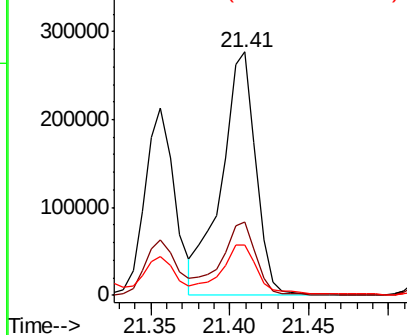
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 228  | Resp: | 413075 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 30.3 | 24.4  | 36.6   |
| 229       | 20.7 | 16.2  | 24.2   |

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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#87

Benzo(b)fluoranthene

Concen: 7.689 ng/ul

RT: 22.97 min Scan# 3397

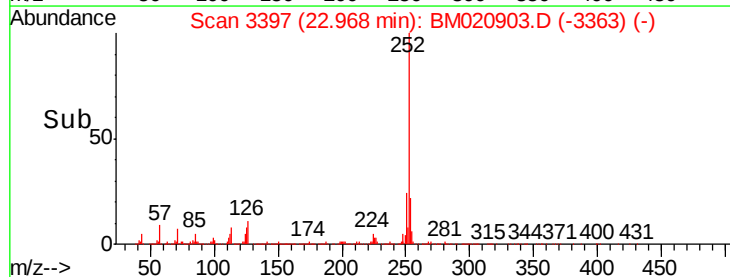
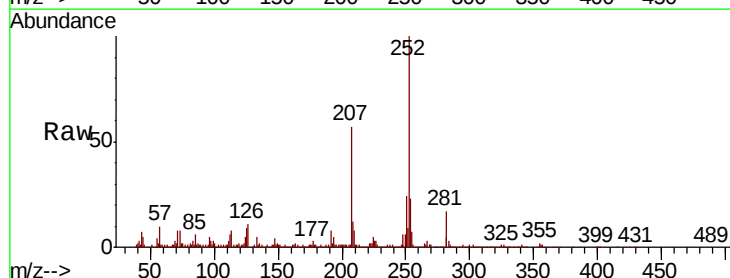
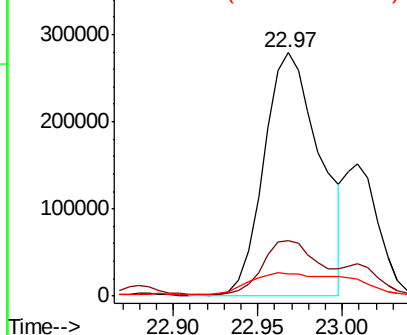
Delta R.T. 0.00 min

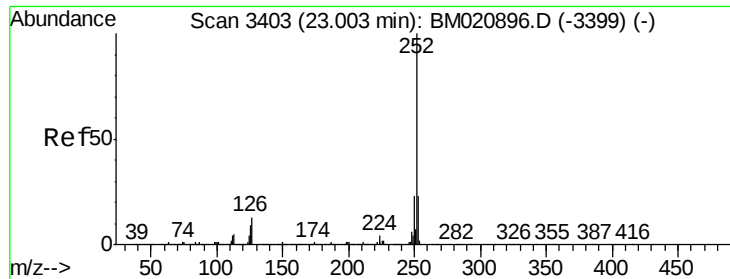
Lab File: BM020903.D

Acq: 12 Jun 2019 14:50

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 639612 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 22.9 | 17.6  | 26.4   |
| 125       | 9.1  | 7.3   | 10.9   |

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





#88

Benzo(k)fluoranthene

Concen: 2.648 ng/ul m

RT: 23.01 min Scan# 3404

Delta R.T. -0.01 min

Lab File: BM020903.D

Acq: 12 Jun 2019 14:50

Instrument :

BNA\_M

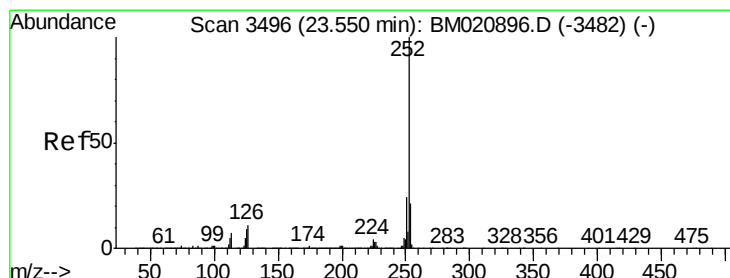
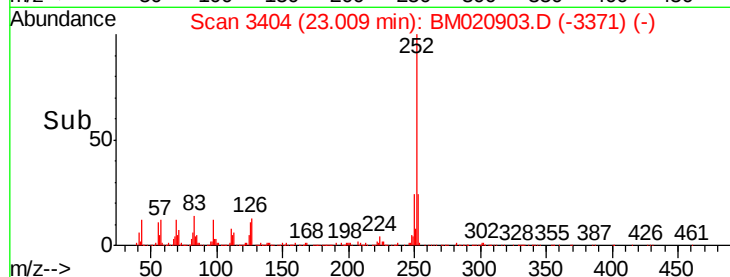
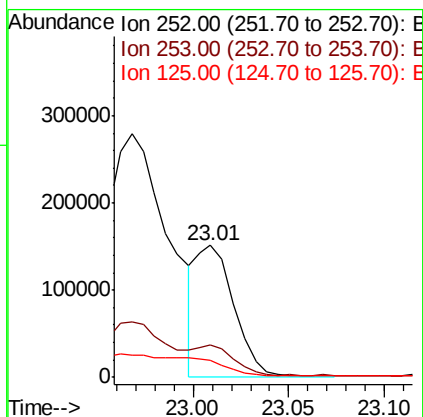
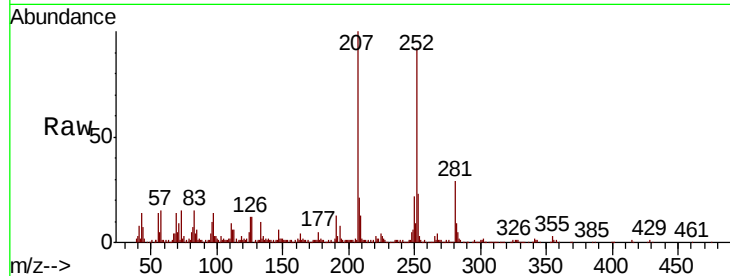
ClientSampleId :

A51F8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 210564 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.9  | 17.6  | 26.4   |
| 125       | 12.6  | 7.3   | 10.9#  |

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#90

Benzo(a)pyrene

Concen: 4.550 ng/ul

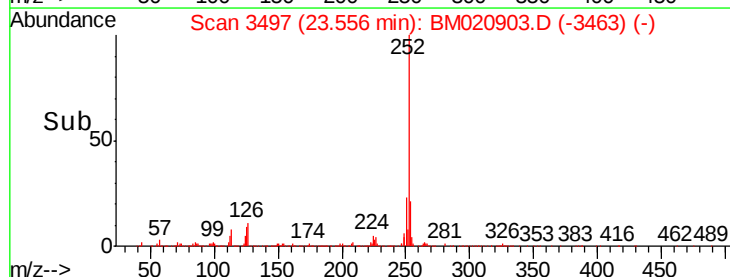
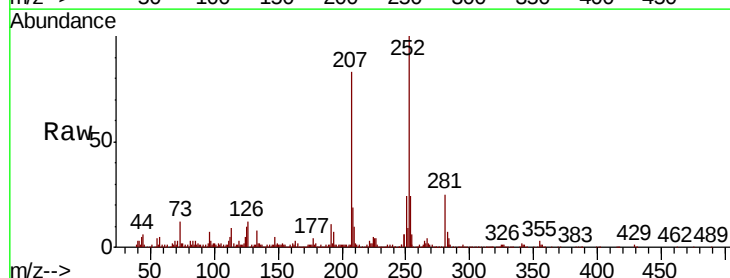
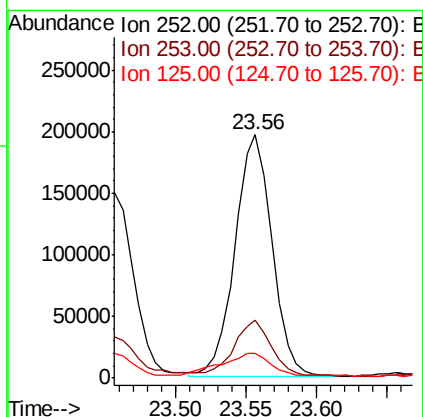
RT: 23.56 min Scan# 3497

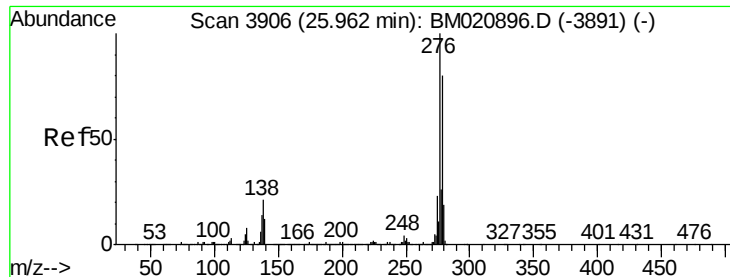
Delta R.T. 0.00 min

Lab File: BM020903.D

Acq: 12 Jun 2019 14:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 360079 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.7  | 17.0  | 25.6   |
| 125       | 10.3  | 8.2   | 12.4   |





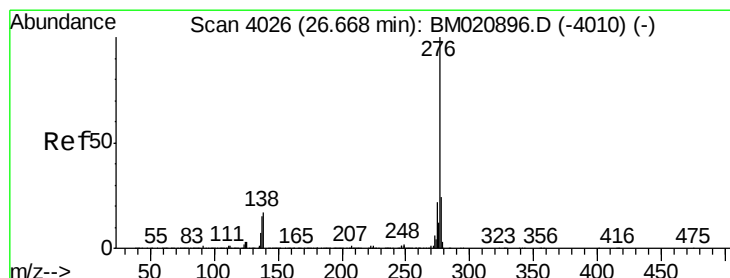
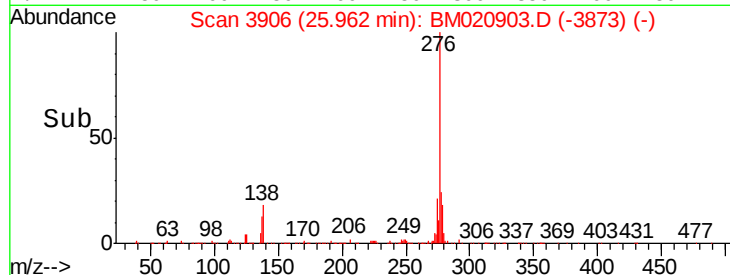
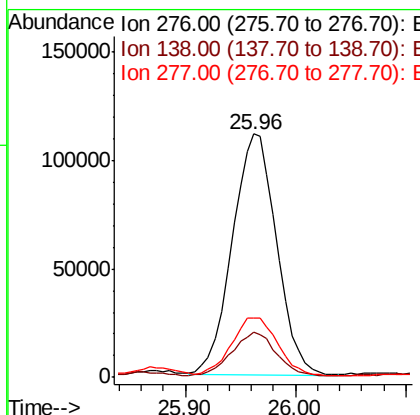
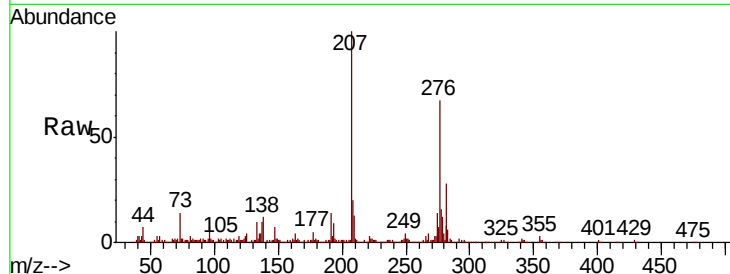
#91  
Indeno(1,2,3-cd)pyrene  
Concen: 3.352 ng/ul  
RT: 25.96 min Scan# 3906  
Delta R.T. -0.01 min  
Lab File: BM020903.D  
Acq: 12 Jun 2019 14:50

Instrument :  
BNA\_M  
ClientSampled :  
A51F8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.4  | 17.8  | 26.8  |
| 277     | 24.5  | 20.0  | 30.0  |

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#93  
Benzo(g,h,i)perylene  
Concen: 3.534 ng/ul  
RT: 26.67 min Scan# 4026  
Delta R.T. -0.02 min  
Lab File: BM020903.D  
Acq: 12 Jun 2019 14:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.6  | 16.6  | 25.0  |
| 277     | 25.5  | 19.6  | 29.4  |

