

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101519\  
 Data File : BM023176.D  
 Acq On : 15 Oct 2019 20:58  
 Operator : JU  
 Sample : K5202-05  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AA9

Manual Integrations  
 APPROVED

mohammad  
 10/17/2019 7:57:59 AM

Quant Time: Oct 16 08:03:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101419MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Oct 15 02:28:10 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 424832   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.47 | 136  | 1820956  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.33 | 164  | 1178789  | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.07 | 188  | 2513697  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.26 | 240  | 2350501  | 20.00 | ng/ul | -0.01    |
| 86) Perylene-d12          | 23.47 | 264  | 2194919  | 20.00 | ng/ul | -0.02    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.20  | 96  | 38993   | 4.04  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.86  | 99  | 719083  | 19.44 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.03  | 67  | 445605  | 21.29 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.22  | 132 | 578265  | 20.42 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.39  | 113 | 545157  | 18.34 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.83  | 128 | 266224  | 21.61 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 263429  | 22.46 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.09 | 165 | 585999  | 19.64 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.60 | 131 | 691959  | 19.07 | ng/ul | 0.00  |
| 44) Dimethylphthalate-d6       | 13.74 | 166 | 1957753 | 21.67 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 14.02 | 160 | 2289464 | 21.61 | ng/ul | -0.01 |
| 52) 4-Nitrophenol-d4           | 14.51 | 143 | 137948  | 9.43  | ng/ul | -0.01 |
| 58) Fluorene-d10               | 15.32 | 176 | 1672368 | 21.73 | ng/ul | -0.01 |
| 63) 4,6-Dinitro-2-methylphenol | 15.43 | 200 | 104970  | 10.53 | ng/ul | -0.01 |
| 71) Anthracene-d10             | 17.17 | 188 | 2589772 | 21.37 | ng/ul | -0.01 |
| 79) Pyrene-d10                 | 19.46 | 212 | 3092564 | 27.17 | ng/ul | -0.01 |
| 90) Benzo(a)pyrene-d12         | 23.33 | 264 | 2621611 | 23.56 | ng/ul | -0.02 |

## Target Compounds

|                            |       |     |         |        | Ovalue    |
|----------------------------|-------|-----|---------|--------|-----------|
| 6) Phenol                  | 6.88  | 94  | 75711   | 1.984  | ng/ul 98  |
| 45) Dimethylphthalate      | 13.79 | 163 | 928657  | 10.271 | ng/ul 100 |
| 70) Phenanthrene           | 17.11 | 178 | 291336  | 2.065  | ng/ul 99  |
| 77) Fluoranthene           | 19.13 | 202 | 892317  | 5.319  | ng/ul 98  |
| 80) Pyrene                 | 19.49 | 202 | 731423  | 4.967  | ng/ul 98  |
| 83) Benzo(a)anthracene     | 21.24 | 228 | 387481  | 2.433  | ng/ul 96  |
| 85) Chrysene               | 21.29 | 228 | 411059  | 2.780  | ng/ul 97  |
| 88) Benzo(b)fluoranthene   | 22.81 | 252 | 546623  | 4.108  | ng/ul 97  |
| 89) Benzo(k)fluoranthene   | 22.85 | 252 | 153938m | 1.205  | ng/ul     |
| 91) Benzo(a)pyrene         | 23.38 | 252 | 334009  | 2.616  | ng/ul 99  |
| 92) Indeno(1,2,3-cd)pyrene | 25.69 | 276 | 226819  | 1.493  | ng/ul 98  |
| 94) Benzo(g,h,i)perylene   | 26.37 | 276 | 213059  | 1.704  | ng/ul 99  |

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

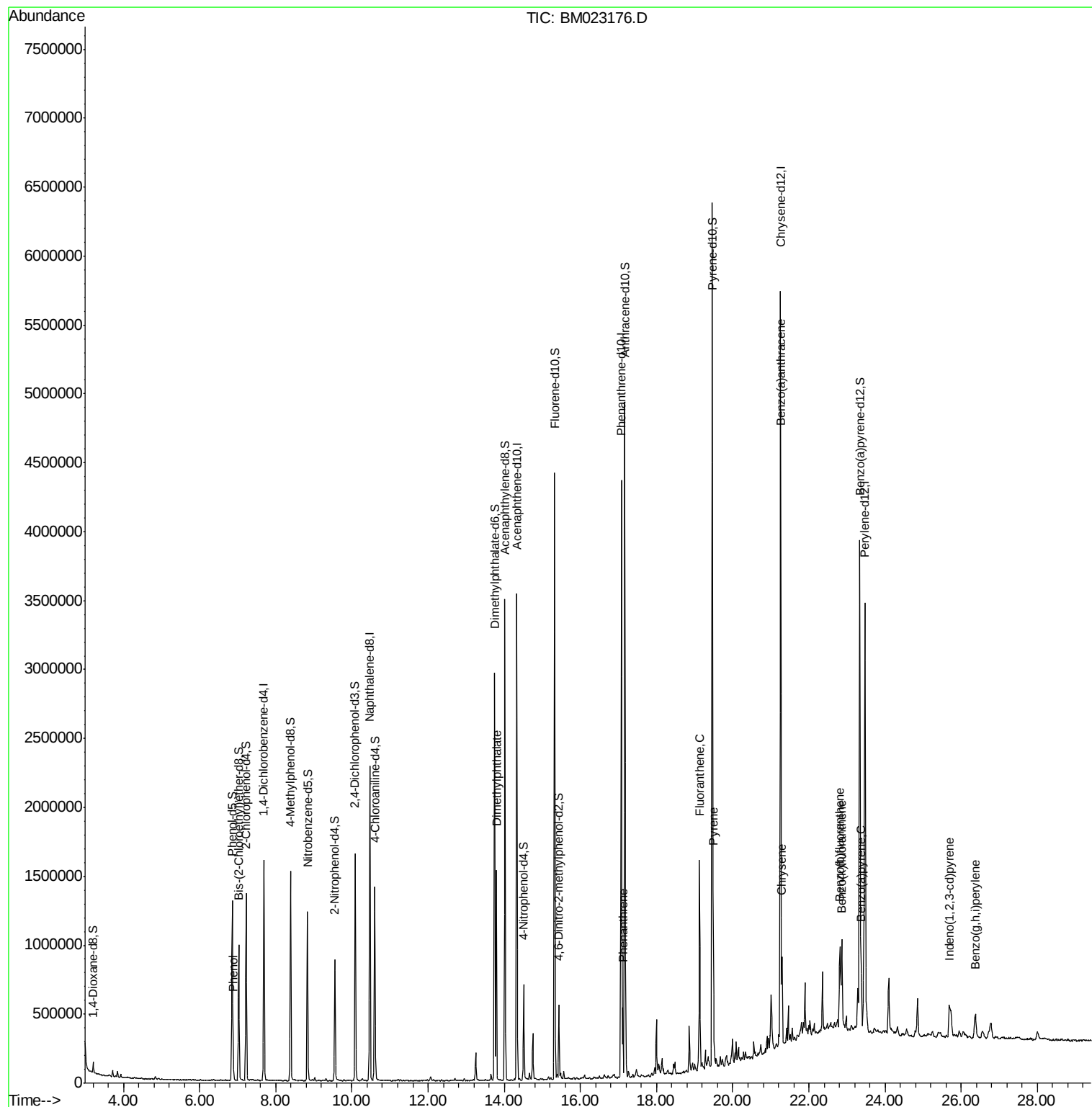
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101519\  
Data File : BM023176.D  
Acq On : 15 Oct 2019 20:58  
Operator : JU  
Sample : K5202-05  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

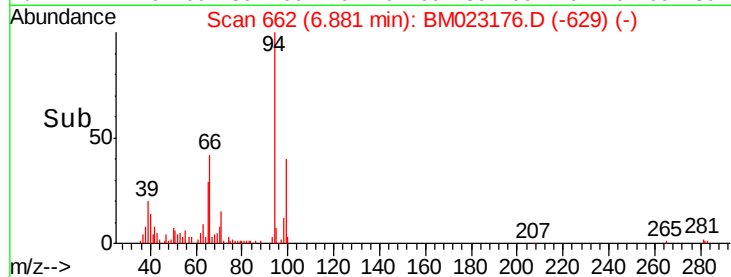
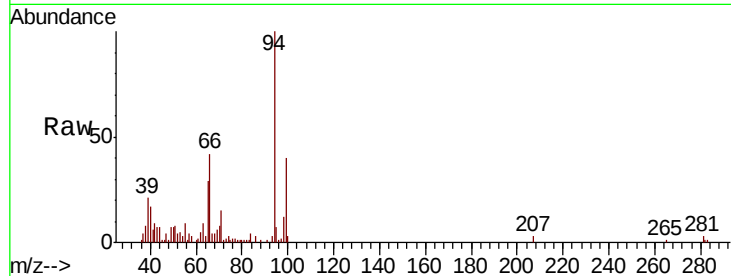
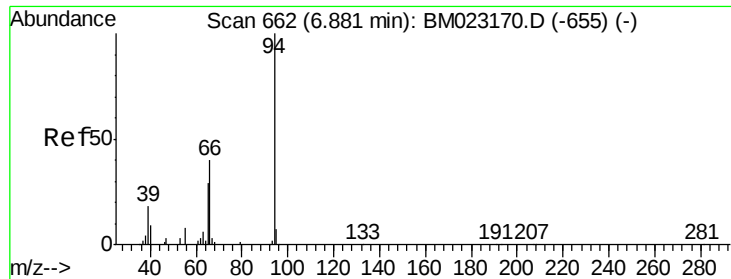
Instrument :  
BNA\_M  
ClientSampleId :  
C0AA9

Quant Time: Oct 16 08:03:47 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101419MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Oct 15 02:28:10 2019  
Response via : Initial Calibration

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#6

Phenol

Concen: 1.984 ng/ul

RT: 6.88 min Scan# 662

Delta R.T. -0.01 min

Lab File: BM023176.D

Acq: 15 Oct 2019 20:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 75711 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 29.0  | 23.7  | 35.5  |
| 66        | 42.2  | 32.9  | 49.3  |

Instrument :

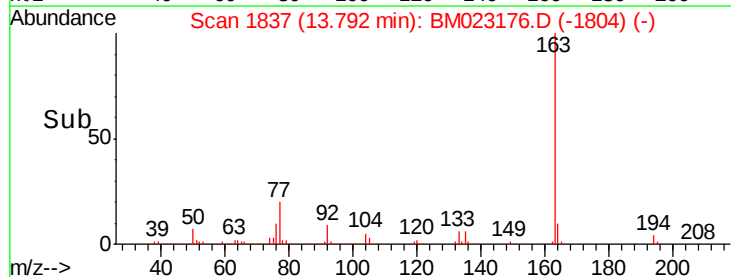
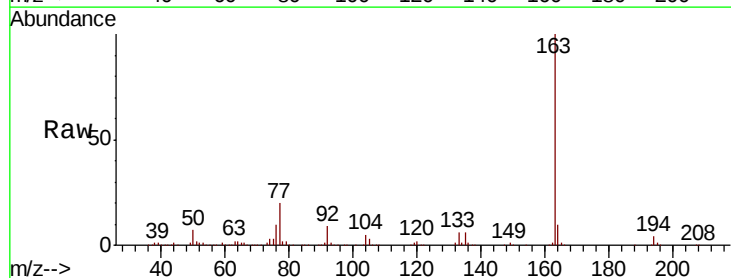
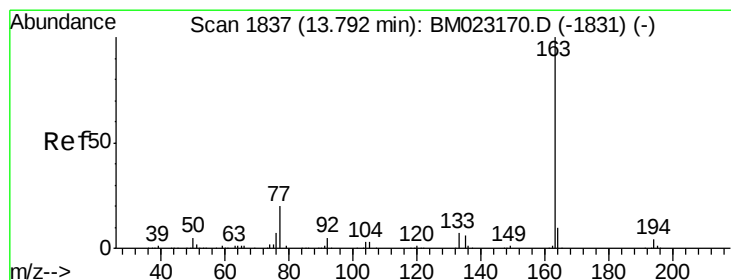
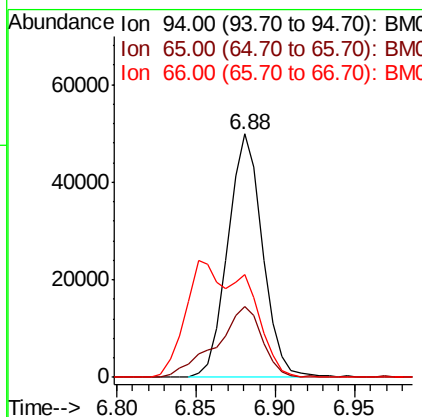
BNA\_M

ClientSampleId :

C0AA9

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#45

Dimethylphthalate

Concen: 10.271 ng/ul

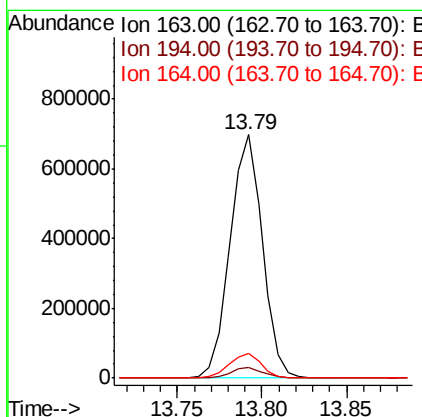
RT: 13.79 min Scan# 1837

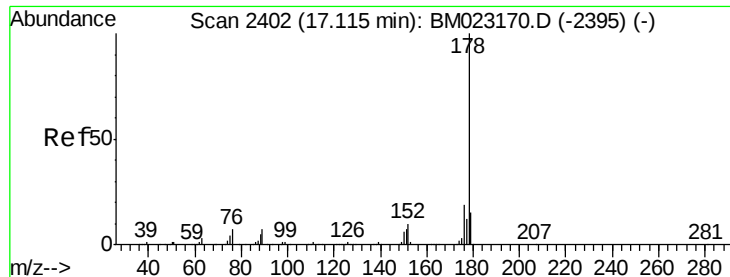
Delta R.T. -0.01 min

Lab File: BM023176.D

Acq: 15 Oct 2019 20:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 928657 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.3   | 3.5   | 5.3    |
| 164       | 10.0  | 8.0   | 12.0   |





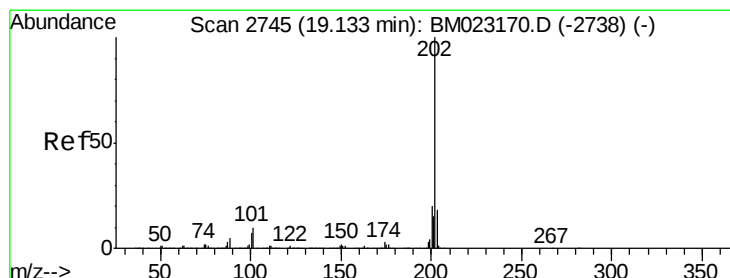
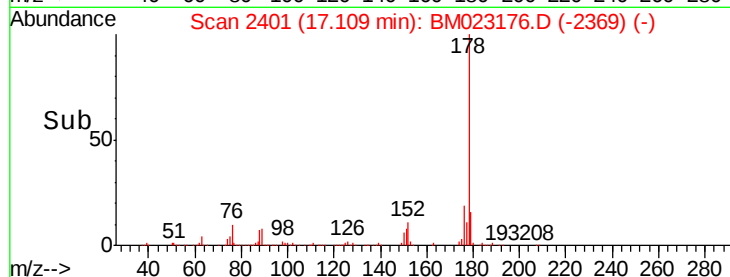
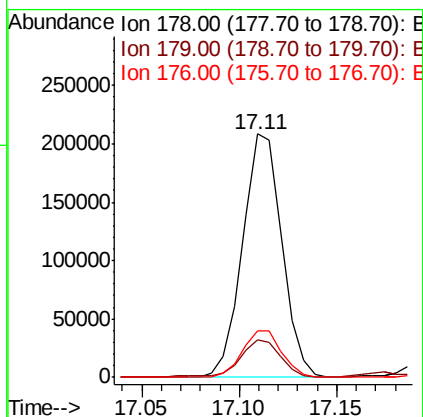
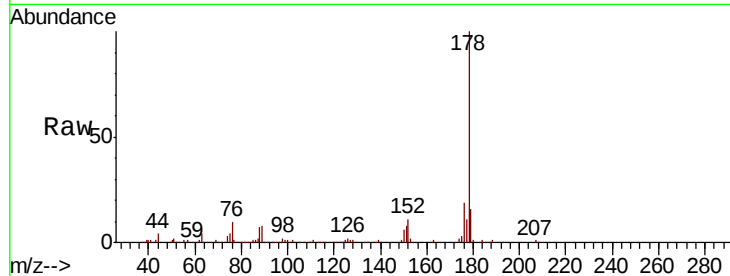
#70  
Phenanthrene  
Concen: 2.065 ng/ul  
RT: 17.11 min Scan# 2401  
Delta R.T. -0.01 min  
Lab File: BM023176.D  
Acq: 15 Oct 2019 20:58

Instrument :  
BNA\_M  
ClientSampleId :  
C0AA9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 12.3  | 18.5  |
| 176     | 19.1  | 15.5  | 23.3  |

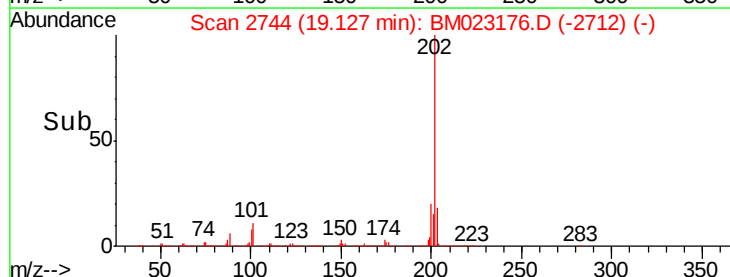
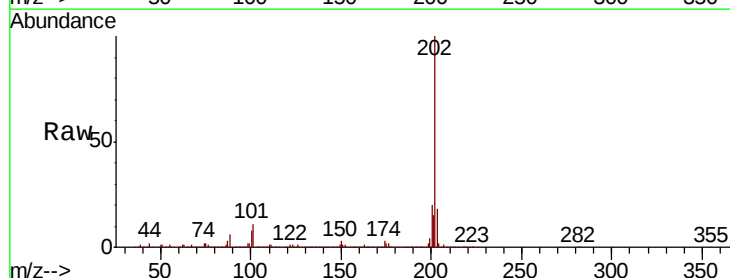
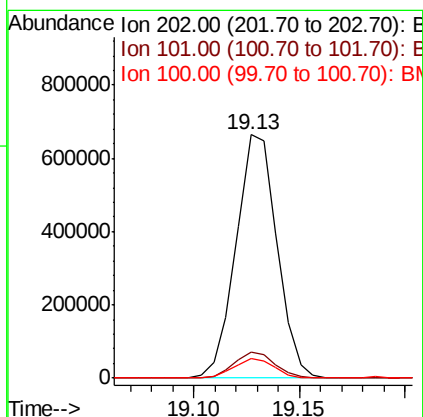
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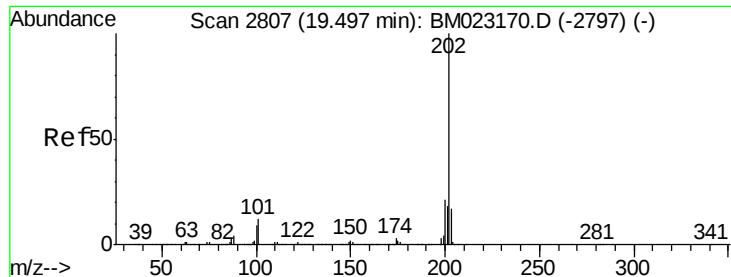
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#77  
Fluoranthene  
Concen: 5.319 ng/ul  
RT: 19.13 min Scan# 2744  
Delta R.T. -0.01 min  
Lab File: BM023176.D  
Acq: 15 Oct 2019 20:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.8  | 7.8   | 11.8  |
| 100     | 7.8   | 6.1   | 9.1   |





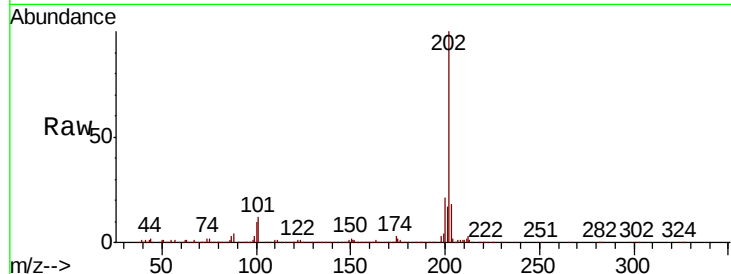
#80  
Pvrene  
Concen: 4.967 ng/ul  
RT: 19.49 min Scan# 2806  
Delta R.T. -0.01 min  
Lab File: BM023176.D  
Acq: 15 Oct 2019 20:58

Instrument :  
BNA\_M  
ClientSampleId :  
C0AA9

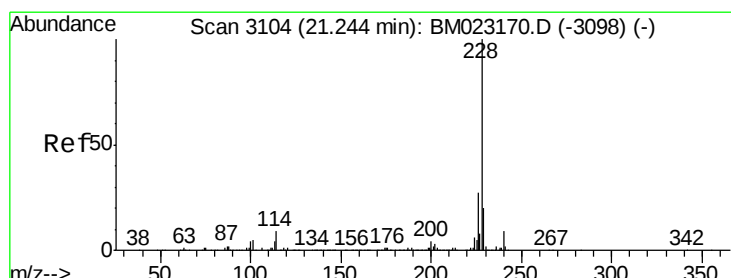
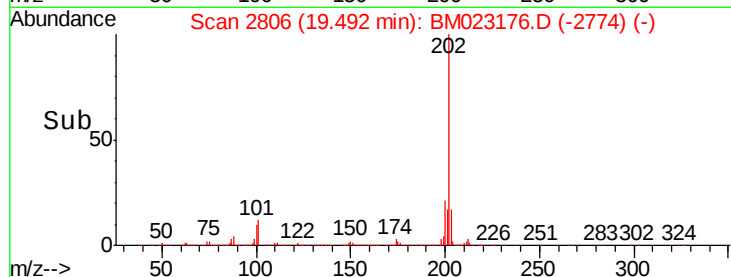
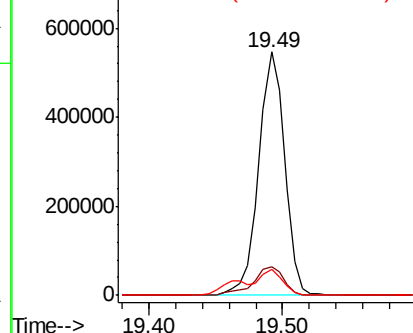
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 731423 |       |       |
| 101     | 11.7  | 9.1    | 13.7  |       |
| 100     | 10.5  | 7.5    | 11.3  |       |

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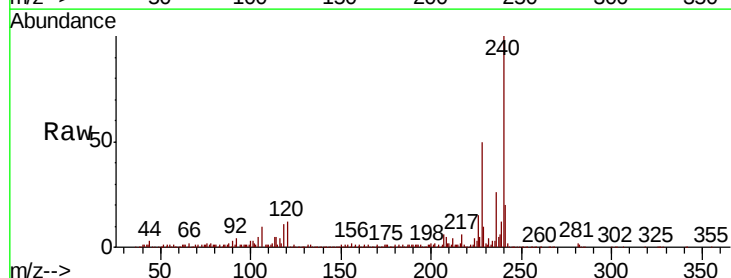


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

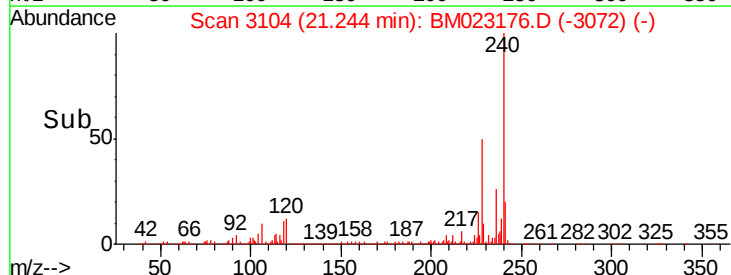
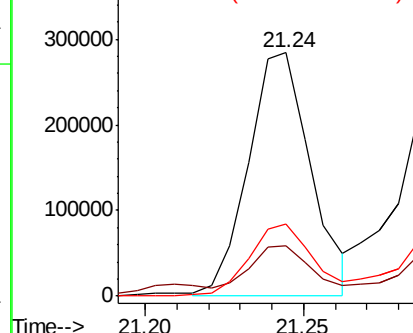


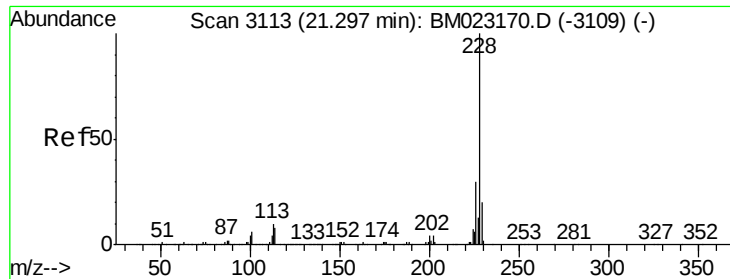
#83  
Benzo(a)anthracene  
Concen: 2.433 ng/ul  
RT: 21.24 min Scan# 3104  
Delta R.T. -0.01 min  
Lab File: BM023176.D  
Acq: 15 Oct 2019 20:58

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 387481 |       |       |
| 229     | 20.4  | 15.7   | 23.5  |       |
| 226     | 29.8  | 21.6   | 32.4  |       |



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





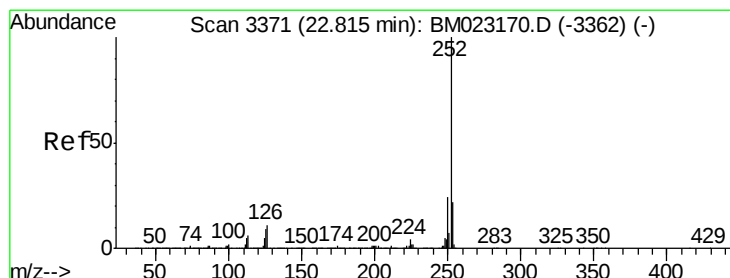
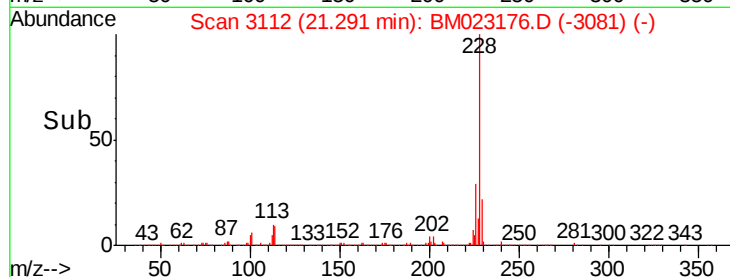
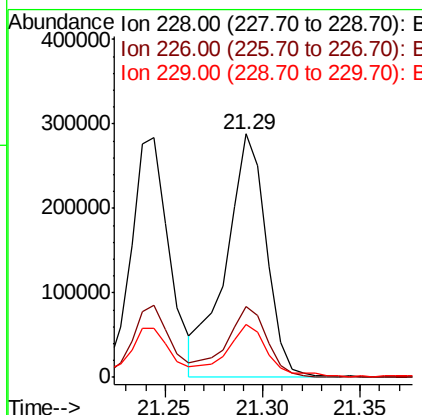
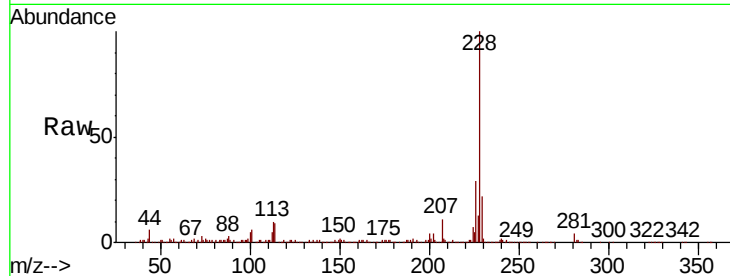
#85  
Chrysene  
Concen: 2.780 ng/ul  
RT: 21.29 min Scan# 3112  
Delta R.T. -0.02 min  
Lab File: BM023176.D  
Acq: 15 Oct 2019 20:58

Instrument :  
BNA\_M  
ClientSampleId :  
C0AA9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 411059 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.1  | 23.8  | 35.6   |
| 229       | 21.9  | 15.5  | 23.3   |

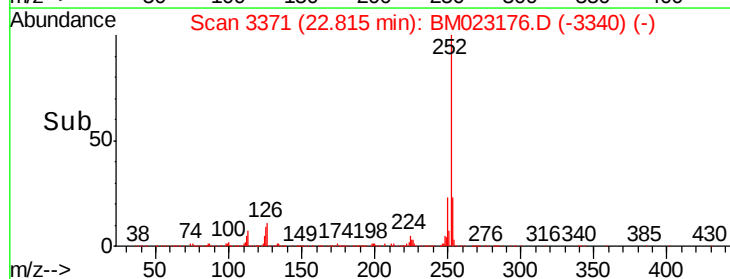
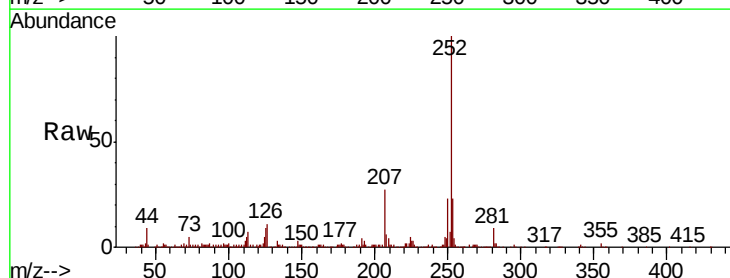
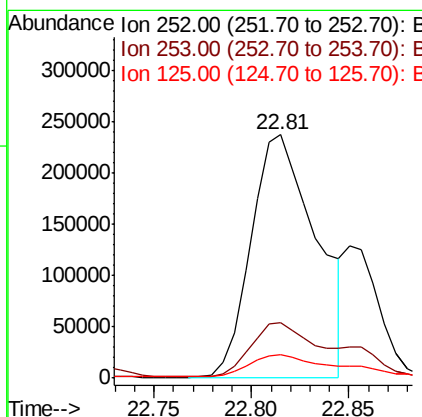
Manual Integrations  
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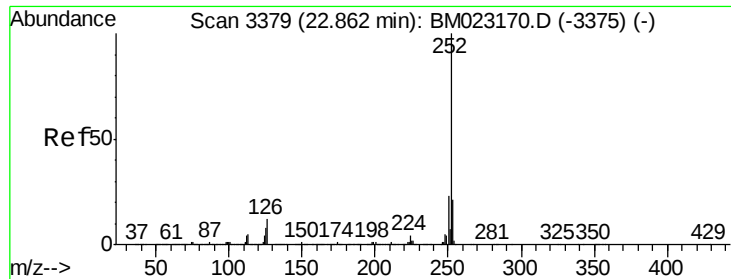
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10/17/2019 7:57:59 AM



#88  
Benzo(b)fluoranthene  
Concen: 4.108 ng/ul  
RT: 22.81 min Scan# 3371  
Delta R.T. -0.02 min  
Lab File: BM023176.D  
Acq: 15 Oct 2019 20:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 546623 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 17.6  | 26.4   |
| 125       | 9.5   | 6.4   | 9.6    |





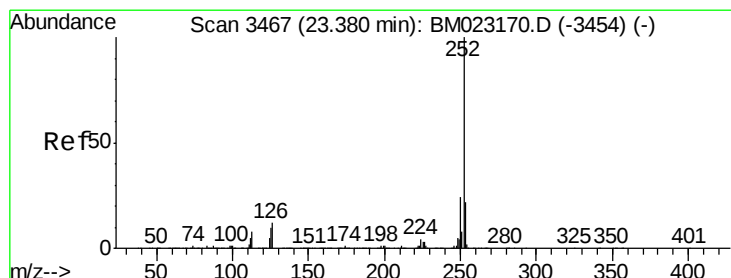
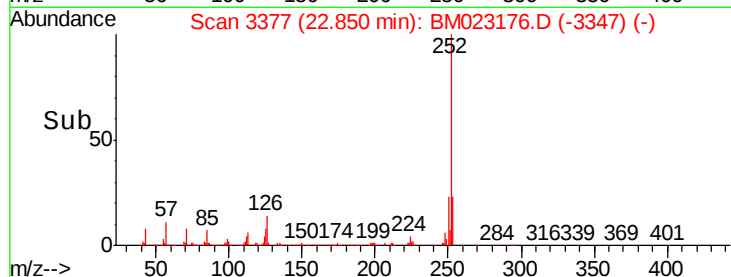
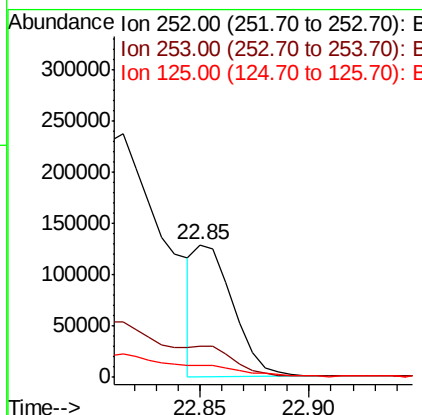
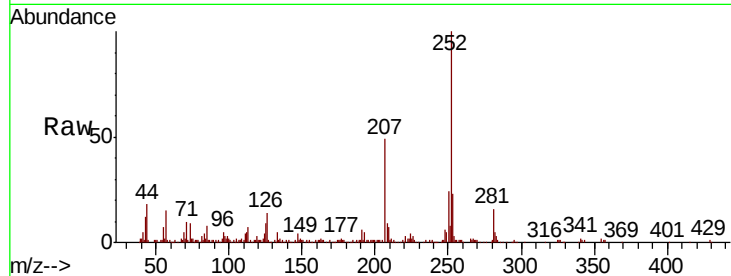
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Benzo(k)fluoranthene  
Concen: 1.205 ng/ul m  
RT: 22.85 min Scan# 3377  
Delta R.T. -0.02 min  
Lab File: BM023176.D  
Acq: 15 Oct 2019 20:58

Instrument :  
BNA\_M  
ClientSampleId :  
C0AA9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.4  | 26.0  |
| 125     | 9.3   | 6.5   | 9.7   |

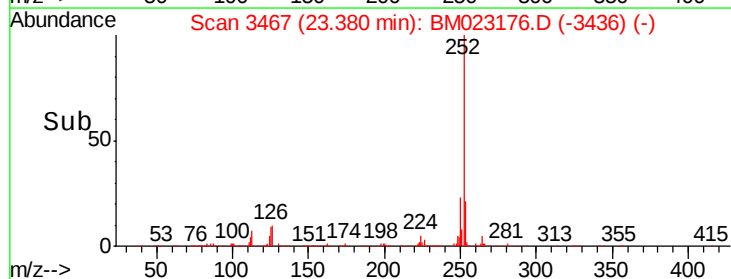
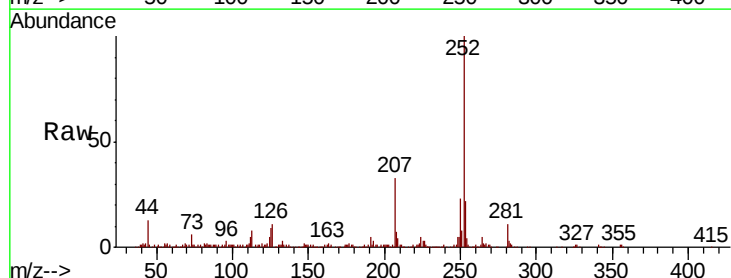
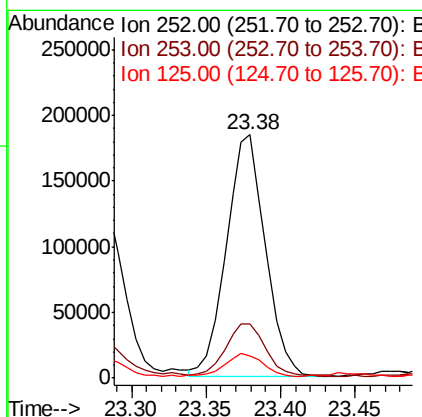
Manual Integrations  
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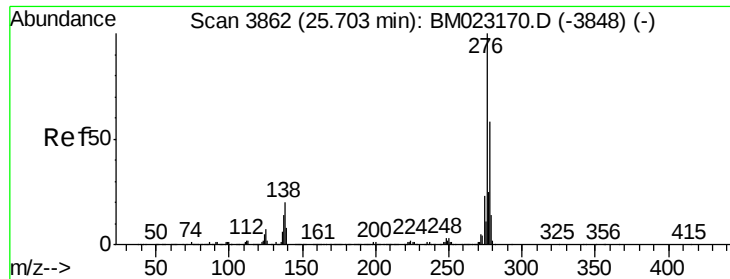
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10/17/2019 7:57:59 AM



#91  
Benzo(a)pyrene  
Concen: 2.616 ng/ul  
RT: 23.38 min Scan# 3467  
Delta R.T. -0.02 min  
Lab File: BM023176.D  
Acq: 15 Oct 2019 20:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 17.2  | 25.8  |
| 125     | 9.2   | 7.4   | 11.0  |





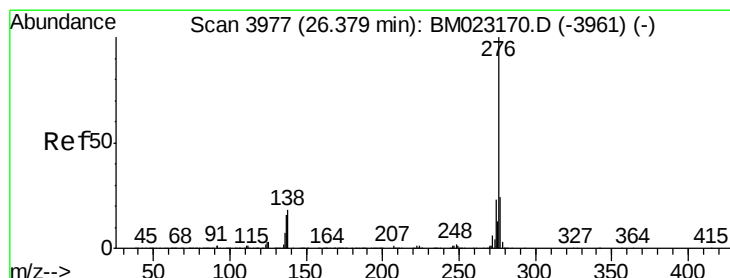
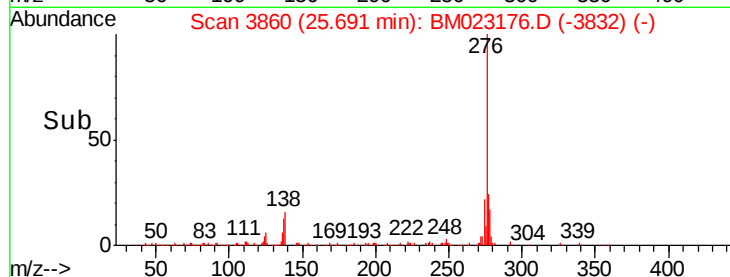
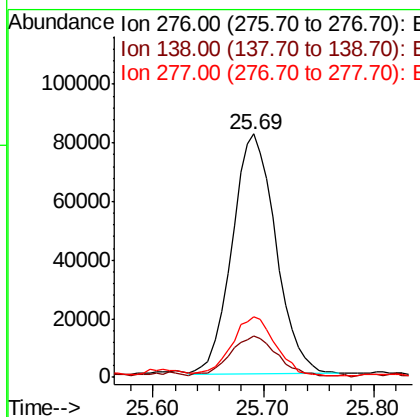
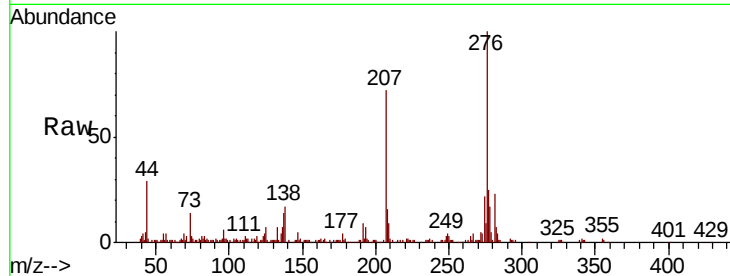
#92  
Indeno(1,2,3-cd)pyrene  
Concen: 1.493 ng/ul  
RT: 25.69 min Scan# 3860  
Delta R.T. -0.04 min  
Lab File: BM023176.D  
Acq: 15 Oct 2019 20:58

Instrument :  
BNA\_M  
ClientSampled :  
C0AA9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.8  | 14.9  | 22.3  |
| 277     | 25.1  | 19.8  | 29.8  |

Manual Integrations  
APPROVED

mohammad  
10/17/2019 7:57:59 AM



#94  
Benzo(g,h,i)perylene  
Concen: 1.704 ng/ul  
RT: 26.37 min Scan# 3975  
Delta R.T. -0.04 min  
Lab File: BM023176.D  
Acq: 15 Oct 2019 20:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.4  | 14.4  | 21.6  |
| 277     | 24.8  | 19.4  | 29.2  |

