

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080719\  
 Data File : BG042037.D  
 Acq On : 7 Aug 2019 18:52  
 Operator : HP/JU  
 Sample : K4029-20  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BENT9

Manual Integrations  
 APPROVED

mohammad  
 8/9/2019 4:29:55 PM

Quant Time: Aug 08 02:39:45 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 08 01:36:24 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.03  | 152  | 77428    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 325715   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.69 | 164  | 231596   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.44 | 188  | 502237   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.72 | 240  | 486336   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 24.99 | 264  | 576641   | 20.00 | ng/ul | 0.00     |

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| System Monitoring Compounds    |       |     |        |       |       |      |
| 3) 1,4-Dioxane-d8              | 3.41  | 96  | 6331   | 3.58  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.17  | 99  | 119623 | 19.69 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.34  | 67  | 78505  | 23.10 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.55  | 132 | 116174 | 22.36 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.73  | 113 | 73021  | 14.31 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.19  | 128 | 68141  | 27.79 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.92  | 143 | 83758  | 29.42 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.46 | 165 | 138221 | 24.05 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.98 | 131 | 129600 | 20.32 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.08 | 166 | 512873 | 28.55 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.38 | 160 | 564565 | 27.52 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.87 | 143 | 48649  | 16.13 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.68 | 176 | 450527 | 28.19 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.79 | 200 | 67856  | 21.06 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.54 | 188 | 689709 | 28.62 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.82 | 212 | 766452 | 28.24 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 24.77 | 264 | 854662 | 28.37 | ng/ul | 0.00 |

|                            |       |     |        |        |       |        |
|----------------------------|-------|-----|--------|--------|-------|--------|
| Target Compounds           |       |     |        |        |       | Ovalue |
| 6) Phenol                  | 7.20  | 94  | 13477  | 2.149  | ng/ul | 96     |
| 44) Dimethylphthalate      | 14.13 | 163 | 220322 | 12.354 | ng/ul | 99     |
| 69) Phenanthrene           | 17.48 | 178 | 91095  | 3.313  | ng/ul | 97     |
| 76) Fluoranthene           | 19.49 | 202 | 193233 | 6.083  | ng/ul | 97     |
| 79) Pyrene                 | 19.85 | 202 | 219691 | 6.716  | ng/ul | 96     |
| 82) Benzo(a)anthracene     | 21.70 | 228 | 135744 | 4.026  | ng/ul | 97     |
| 84) Chrysene               | 21.77 | 228 | 136271 | 4.330  | ng/ul | 96     |
| 87) Benzo(b)fluoranthene   | 23.95 | 252 | 149627 | 4.135  | ng/ul | 98     |
| 88) Benzo(k)fluoranthene   | 24.01 | 252 | 52373  | 1.505  | ng/ul | 99     |
| 90) Benzo(a)pyrene         | 24.84 | 252 | 118026 | 3.423  | ng/ul | 99     |
| 91) Indeno(1,2,3-cd)pyrene | 28.71 | 276 | 67918  | 1.689  | ng/ul | 99     |
| 93) Benzo(g,h,i)perylene   | 29.87 | 276 | 56350m | 1.678  | ng/ul |        |

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

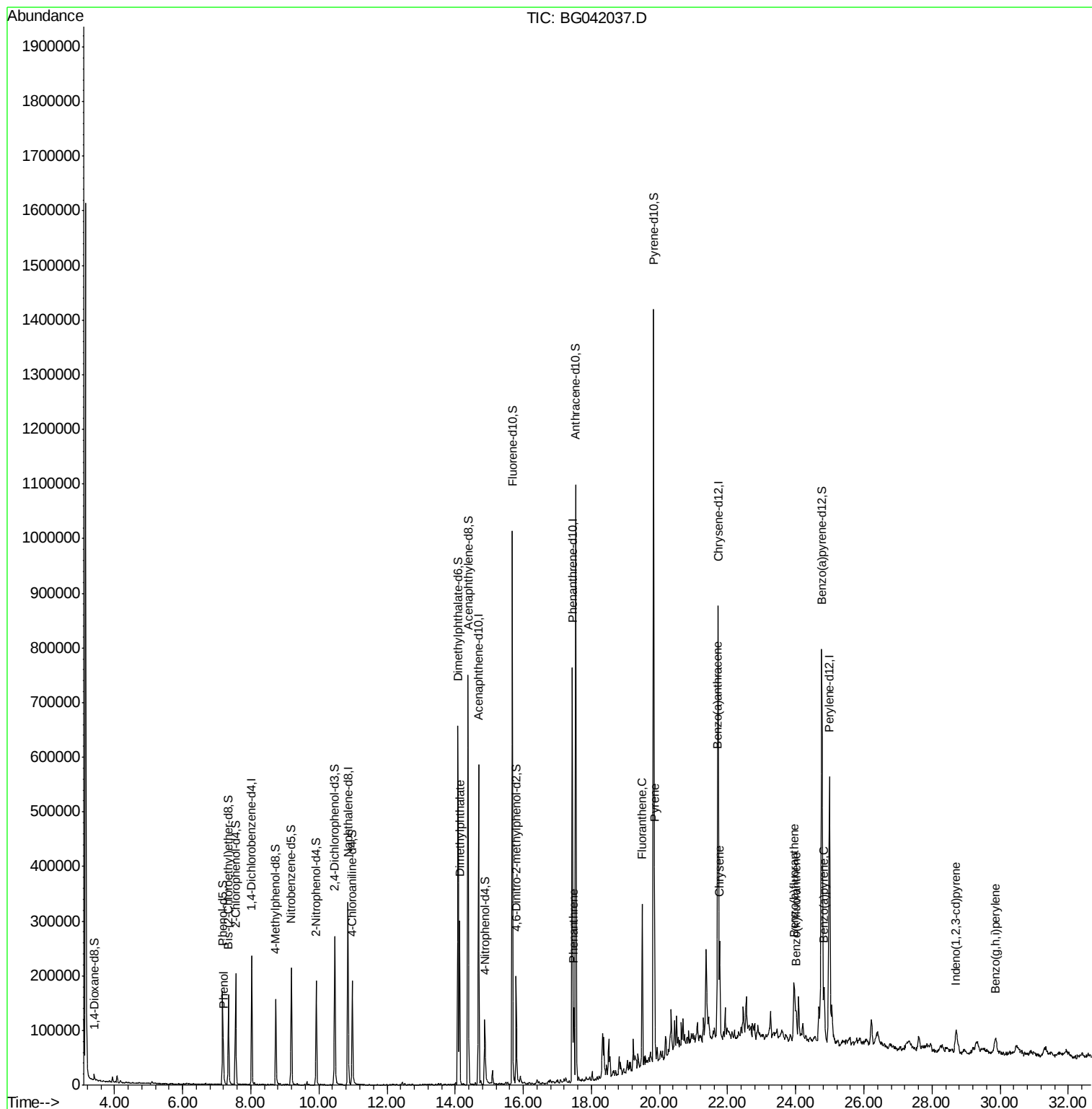
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Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080719\  
Data File : BG042037.D  
Acq On    : 7 Aug 2019 18:52  
Operator  : HP/JU  
Sample    : K4029-20  
Misc      :  
ALS Vial  : 6 Sample Multiplier: 1
```

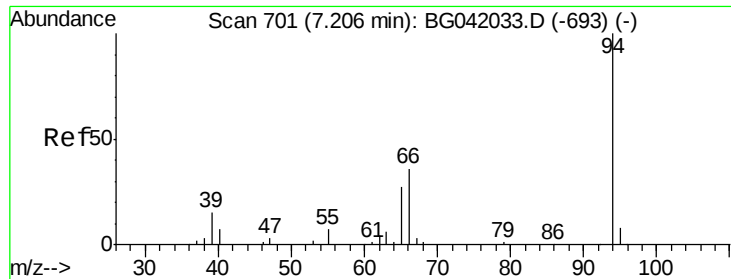
**Instrument :**  
BNA\_G  
**ClientSampleId :**  
BENT9

## Manual Integrations

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Quant Time: Aug 08 02:39:45 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 08 01:36:24 2019  
Response via : Initial Calibration





#6

Phenol

Concen: 2.149 ng/ul

RT: 7.20 min Scan# 700

Delta R.T. -0.00 min

Lab File: BG042037.D

Acq: 7 Aug 2019 18:52

Instrument :

BNA\_G

ClientSampled :

BENT9

Tot Ion: 94 Resp: 13477

Ion Ratio Lower Upper

94 100

65 29.1 25.8 38.6

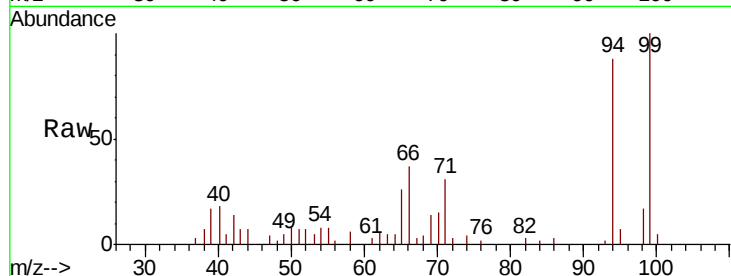
66 41.9 31.8 47.8

Manual Integrations

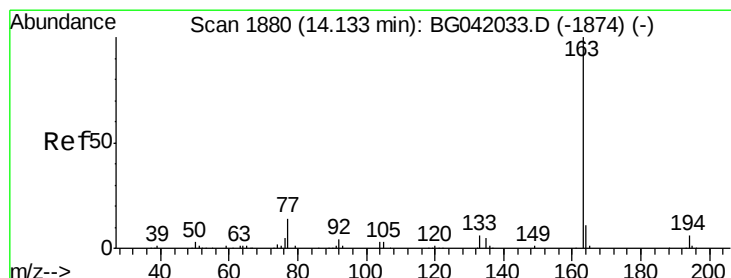
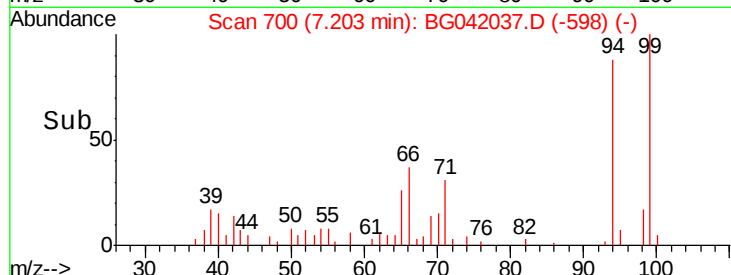
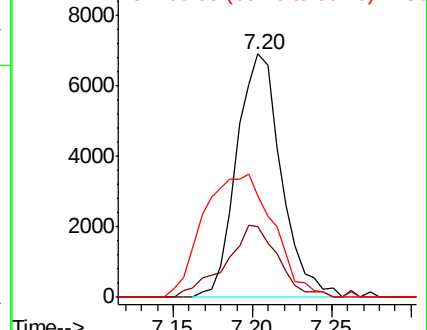
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Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC



#44

Dimethylphthalate

Concen: 12.354 ng/ul

RT: 14.13 min Scan# 1879

Delta R.T. -0.00 min

Lab File: BG042037.D

Acq: 7 Aug 2019 18:52

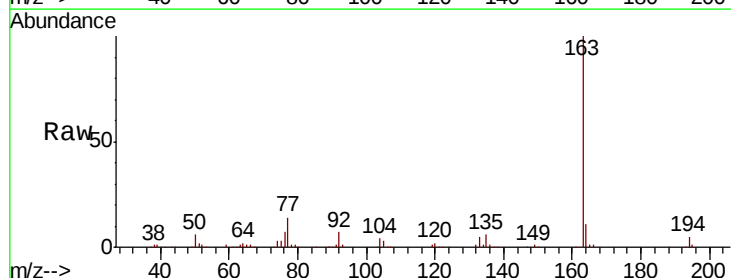
Tgt Ion: 163 Resp: 220322

Ion Ratio Lower Upper

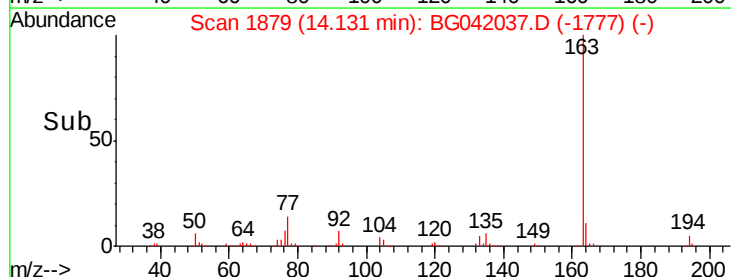
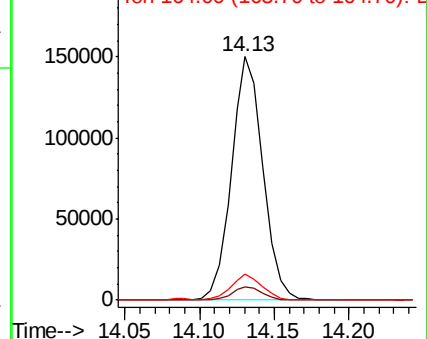
163 100

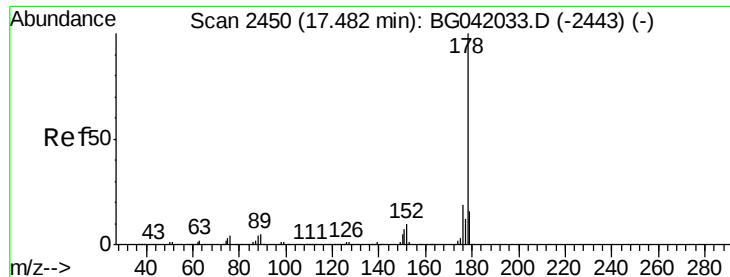
194 5.3 4.2 6.2

164 10.5 7.8 11.8



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





#69

Phenanthrene

Concen: 3.313 ng/ul

RT: 17.48 min Scan# 2449

Delta R.T. -0.00 min

Lab File: BG042037.D

Acq: 7 Aug 2019 18:52

Instrument :

BNA\_G

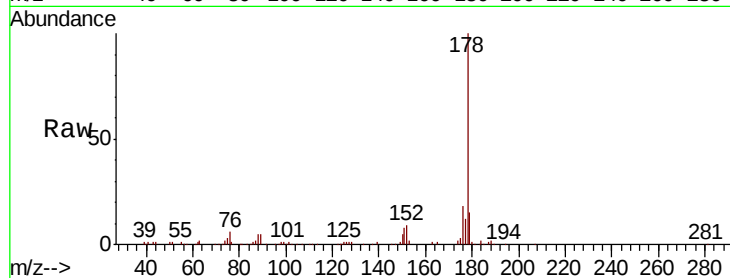
ClientSampleId :

BENT9

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 178   | Resp: | 91095 |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 14.6  | 12.8  | 19.2  |
| 176      | 18.4  | 15.4  | 23.2  |

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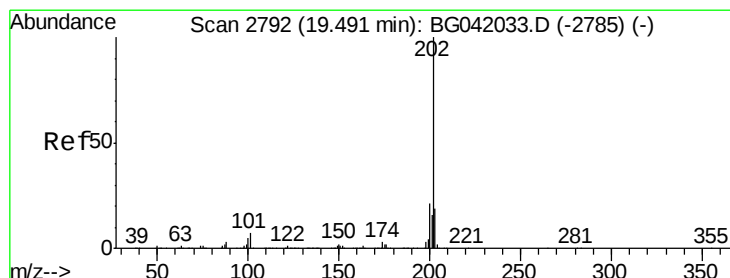
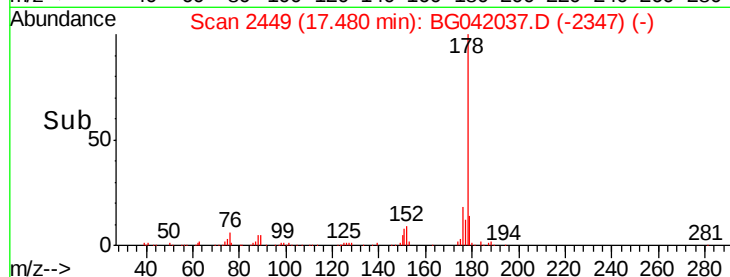
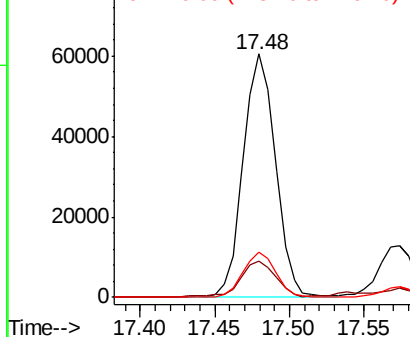


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#76

Fluoranthene

Concen: 6.083 ng/ul

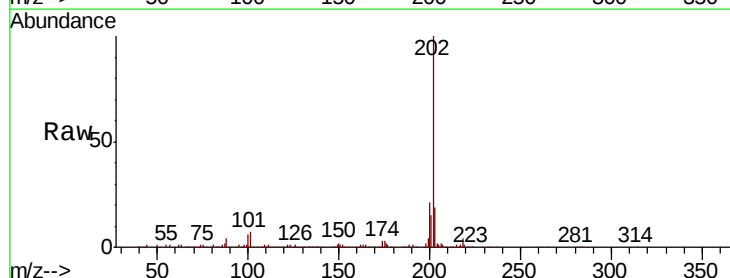
RT: 19.49 min Scan# 2791

Delta R.T. -0.00 min

Lab File: BG042037.D

Acq: 7 Aug 2019 18:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 193233 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 6.8   | 6.7   | 10.1   |
| 100      | 6.0   | 5.3   | 7.9    |

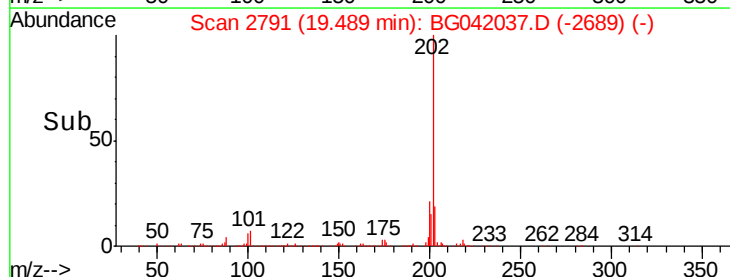
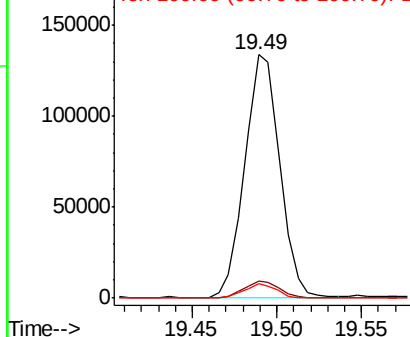


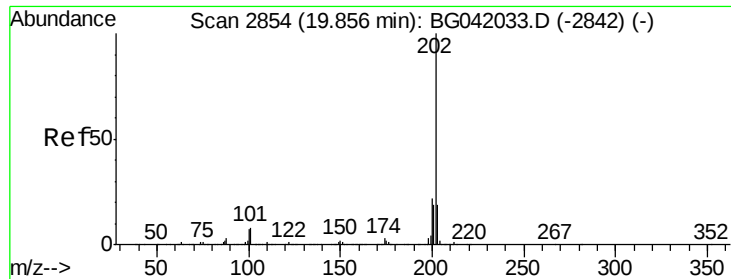
Abundance

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





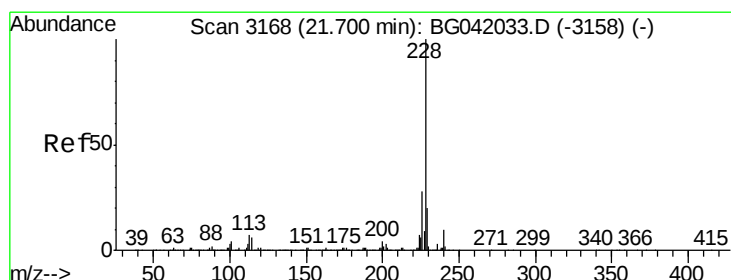
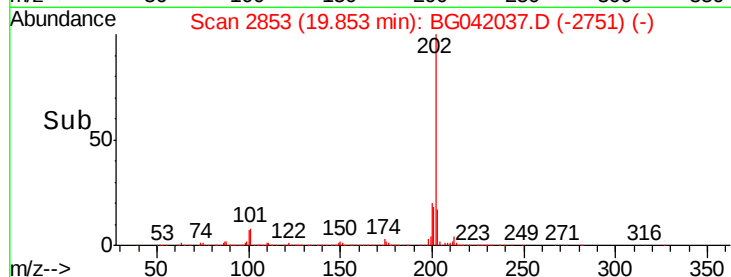
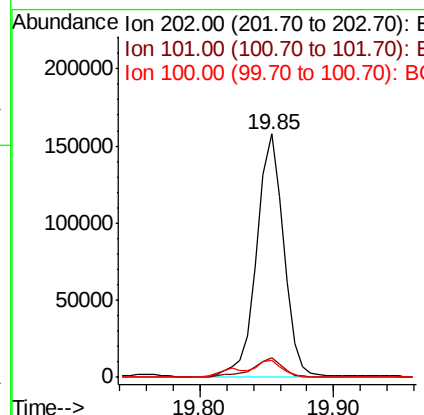
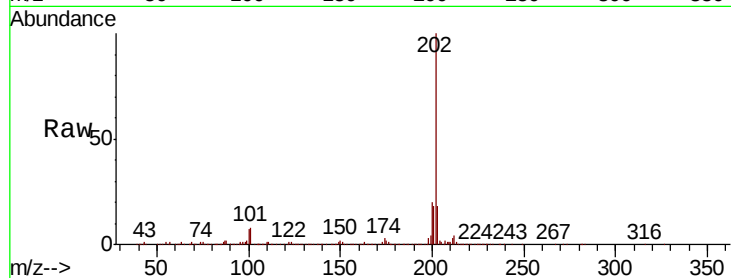
#79  
Pvrene  
Concen: 6.716 ng/ul  
RT: 19.85 min Scan# 2853  
Delta R.T. -0.00 min  
Lab File: BG042037.D  
Acq: 7 Aug 2019 18:52

Instrument :  
BNA\_G  
ClientSampleId :  
BENT9

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 219691 |       |       |
| 101     | 8.1   | 7.6    | 11.4  |       |
| 100     | 6.9   | 6.5    | 9.7   |       |

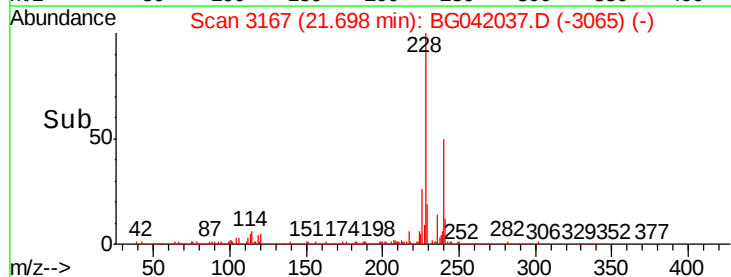
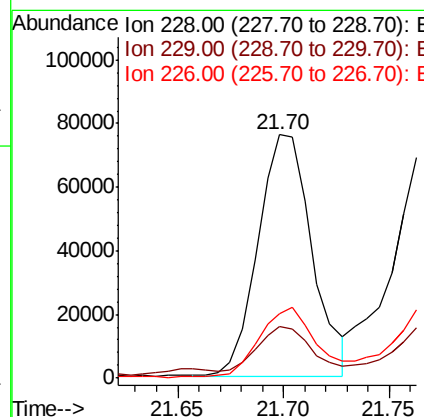
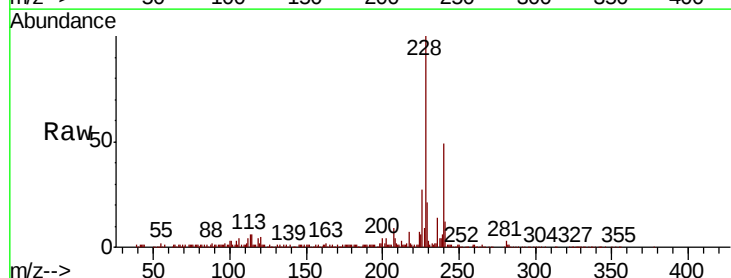
Manual Integrations  
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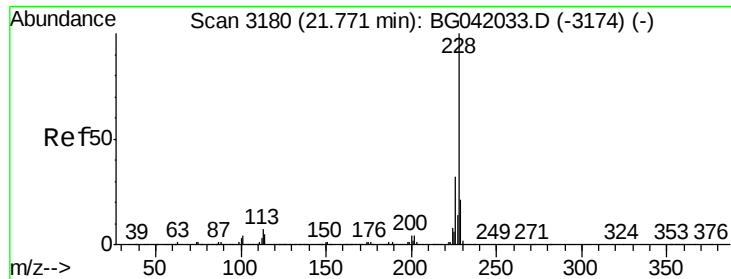
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#82  
Benzo(a)anthracene  
Concen: 4.026 ng/ul  
RT: 21.70 min Scan# 3167  
Delta R.T. -0.00 min  
Lab File: BG042037.D  
Acq: 7 Aug 2019 18:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 135744 |       |       |
| 229     | 21.1  | 17.0   | 25.6  |       |
| 226     | 26.6  | 23.3   | 34.9  |       |





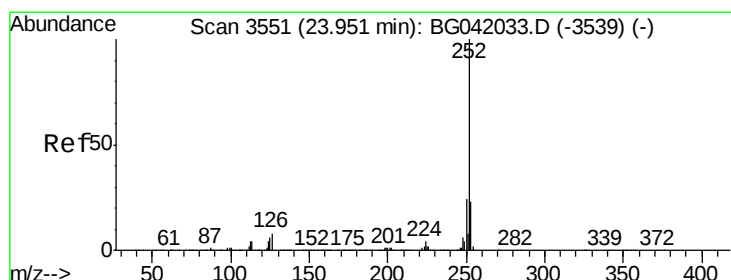
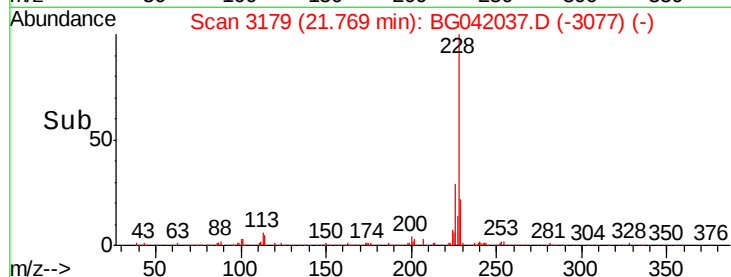
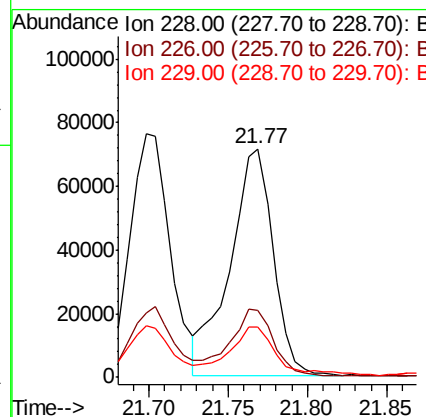
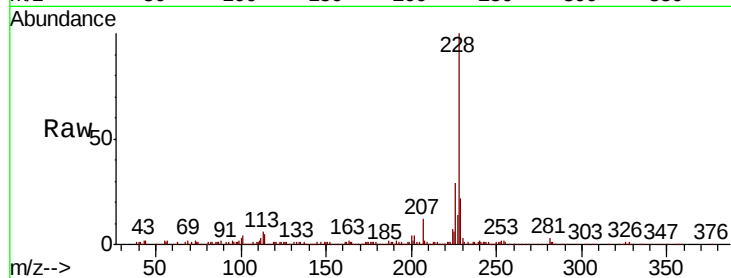
#84  
Chrysene  
Concen: 4.330 ng/ul  
RT: 21.77 min Scan# 3179  
Delta R.T. -0.00 min  
Lab File: BG042037.D  
Acq: 7 Aug 2019 18:52

Instrument :  
BNA\_G  
ClientSampled :  
BENT9

|             |       |        |
|-------------|-------|--------|
| Tot Ion:228 | Resp: | 136271 |
| Ion Ratio   | Lower | Upper  |
| 228 100     |       |        |
| 226 29.4    | 25.7  | 38.5   |
| 229 22.2    | 16.6  | 24.8   |

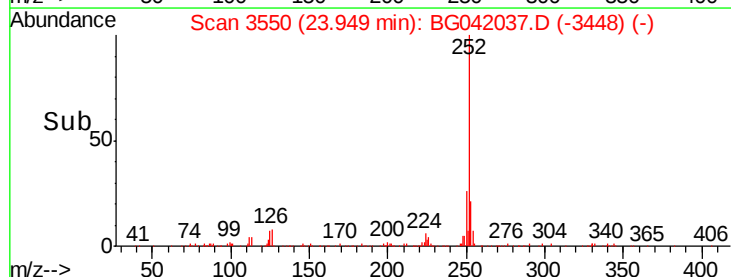
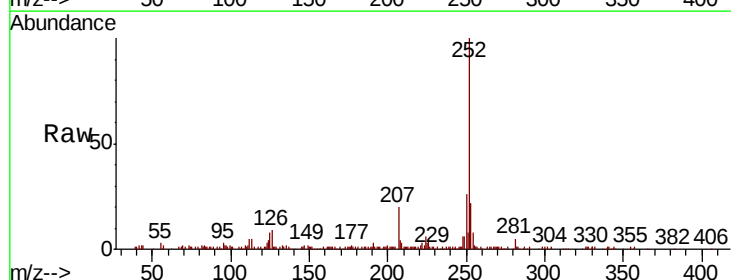
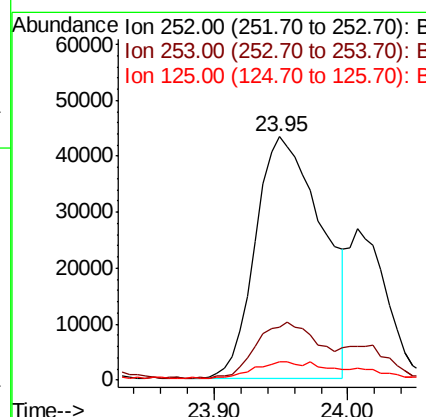
Manual Integrations  
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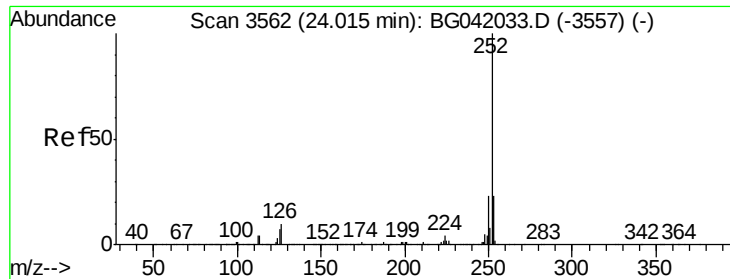
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#87  
Benzo(b)fluoranthene  
Concen: 4.135 ng/ul  
RT: 23.95 min Scan# 3550  
Delta R.T. -0.00 min  
Lab File: BG042037.D  
Acq: 7 Aug 2019 18:52

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:252 | Resp: | 149627 |
| Ion Ratio   | Lower | Upper  |
| 252 100     |       |        |
| 253 21.8    | 18.4  | 27.6   |
| 125 7.6     | 5.8   | 8.8    |





#88

Benzo(k)fluoranthene

Concen: 1.505 ng/ul

RT: 24.01 min Scan# 3560

Delta R.T. -0.01 min

Lab File: BG042037.D

Acq: 7 Aug 2019 18:52

Instrument :

BNA\_G

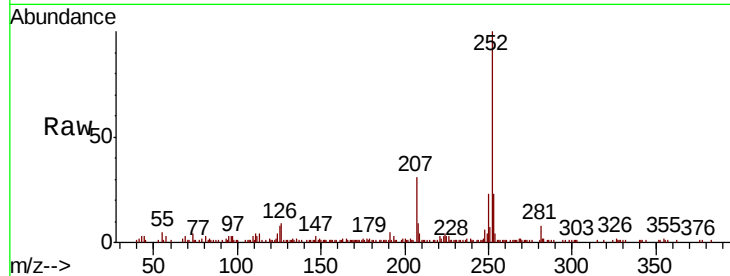
ClientSampleId :

BENT9

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 52373 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.6  | 18.3  | 27.5  |
| 125       | 7.6   | 5.5   | 8.3   |

Manual Integrations  
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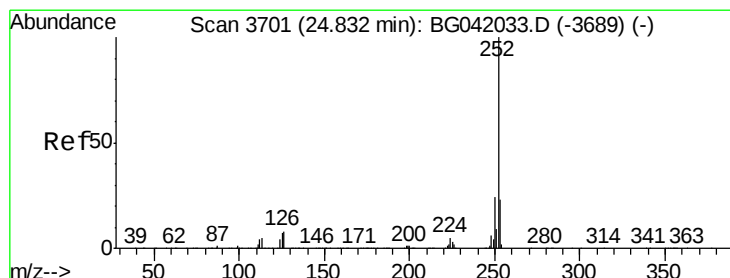
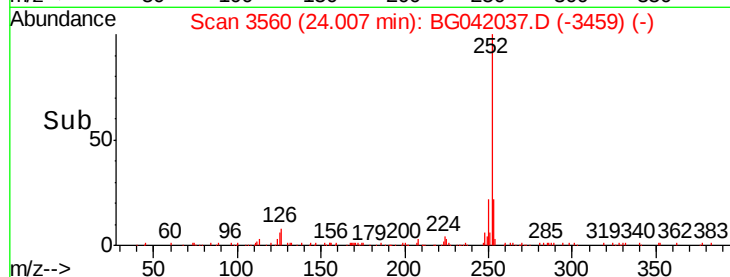
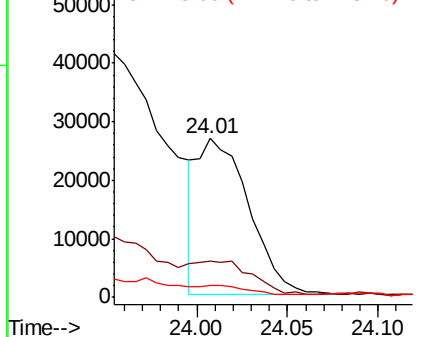


Abundance

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



#90

Benzo(a)pyrene

Concen: 3.423 ng/ul

RT: 24.84 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BG042037.D

Acq: 7 Aug 2019 18:52

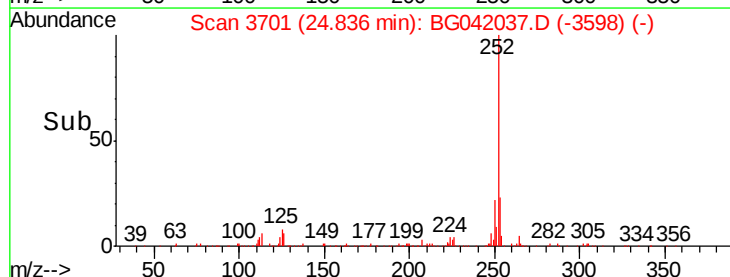
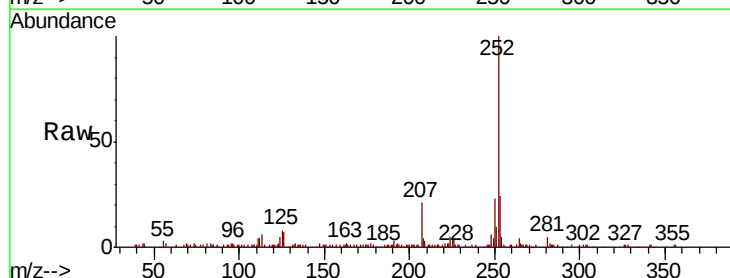
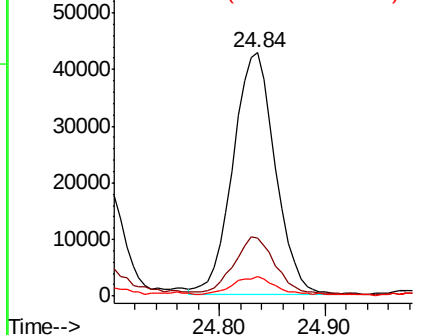
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 118026 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.7  | 18.3  | 27.5   |
| 125       | 8.2   | 6.5   | 9.7    |

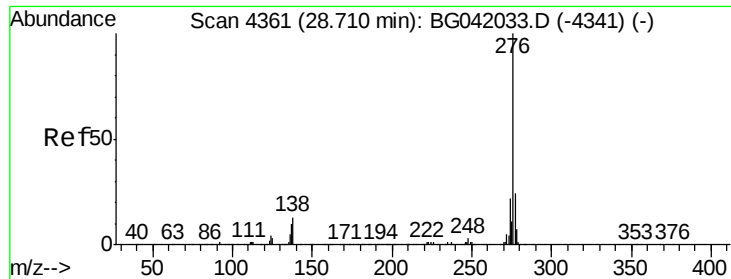
Abundance

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





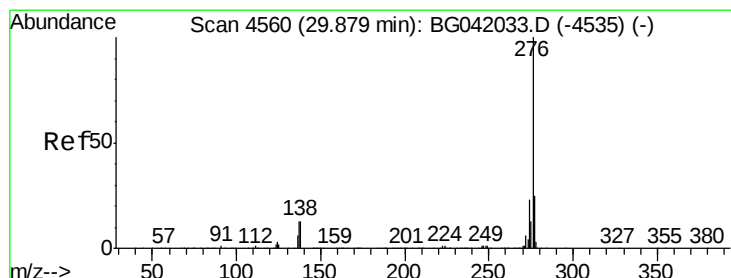
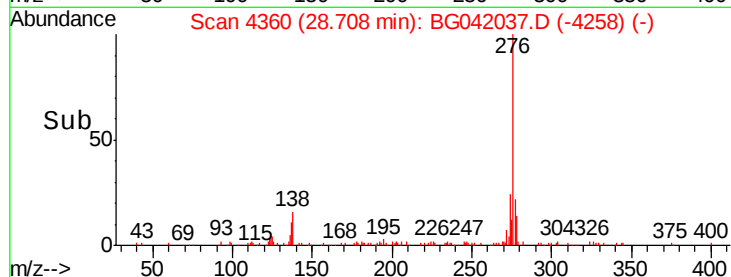
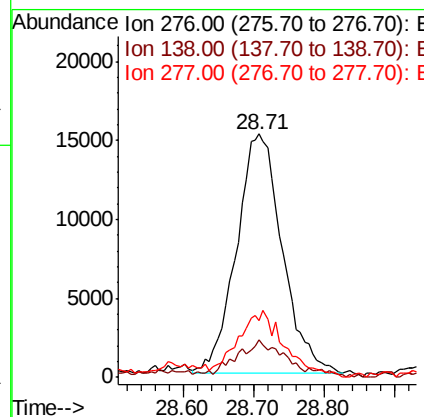
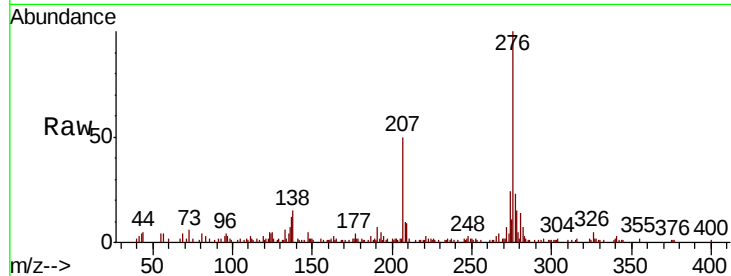
#91  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.689 ng/ul  
 RT: 28.71 min Scan# 4360  
 Delta R.T. -0.00 min  
 Lab File: BG042037.D  
 Acq: 7 Aug 2019 18:52

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BENT9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.4  | 12.0  | 18.0  |
| 277     | 23.1  | 19.2  | 28.8  |

Manual Integrations  
 APPROVED

mohammad  
 8/9/2019 4:29:55 PM



#93  
 Benzo(g,h,i)perylene  
 Concen: 1.678 ng/ul m  
 RT: 29.87 min Scan# 4558  
 Delta R.T. -0.01 min  
 Lab File: BG042037.D  
 Acq: 7 Aug 2019 18:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 12.7  | 12.6  | 18.8  |
| 277     | 24.7  | 19.2  | 28.8  |

