

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072719\  
 Data File : BM021686.D  
 Acq On : 27 Jul 2019 13:07  
 Operator : HP/JU  
 Sample : K3893-17  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BEP21

Manual Integrations  
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 7/29/2019 2:29:47 PM

Quant Time: Jul 29 05:13:11 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM072619MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jul 26 18:42:09 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.68  | 152  | 155142   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.46 | 136  | 587876   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.33 | 164  | 349961   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.08 | 188  | 709854   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.27 | 240  | 710488   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.51 | 264  | 868007   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 11927   | 3.70  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.86  | 99  | 264963  | 22.70 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.03  | 67  | 160232  | 23.98 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.22  | 132 | 233933  | 24.16 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.39  | 113 | 189605  | 19.36 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.85  | 128 | 114548  | 26.06 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.56  | 143 | 127745  | 26.38 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.09 | 165 | 246526  | 23.78 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.62 | 131 | 149624  | 15.26 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.74 | 166 | 700665  | 25.94 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.02 | 160 | 823471  | 25.65 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.57 | 143 | 51502   | 12.56 | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.33 | 176 | 604667  | 25.52 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.47 | 200 | 23017   | 5.22  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.18 | 188 | 896341  | 25.09 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.48 | 212 | 988536  | 24.80 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.37 | 264 | 1138198 | 24.78 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |       | Ovalue |     |
|--------------------------------|-------|-----|---------|-------|--------|-----|
| 44) Dimethylphthalate          | 13.79 | 163 | 120542  | 4.299 | ng/ul  | 99  |
| 69) Phenanthrene               | 17.12 | 178 | 138245  | 3.234 | ng/ul  | 99  |
| 76) Fluoranthene               | 19.14 | 202 | 398012  | 7.980 | ng/ul  | 99  |
| 79) Pyrene                     | 19.51 | 202 | 344300  | 6.495 | ng/ul  | 100 |
| 82) Benzo(a)anthracene         | 21.26 | 228 | 200315  | 3.872 | ng/ul  | 97  |
| 83) Bis(2-ethylhexyl)phthalate | 21.18 | 149 | 37582   | 1.596 | ng/ul# | 96  |
| 84) Chrysene                   | 21.31 | 228 | 228044  | 4.675 | ng/ul  | 97  |
| 87) Benzo(b)fluoranthene       | 22.84 | 252 | 382065  | 6.469 | ng/ul# | 96  |
| 88) Benzo(k)fluoranthene       | 22.88 | 252 | 111267m | 1.927 | ng/ul  |     |
| 90) Benzo(a)pyrene             | 23.41 | 252 | 234167  | 4.235 | ng/ul# | 93  |
| 91) Indeno(1,2,3-cd)pyrene     | 25.75 | 276 | 202858  | 3.164 | ng/ul  | 98  |
| 93) Benzo(g,h,i)perylene       | 26.44 | 276 | 180536  | 3.386 | ng/ul  | 99  |

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

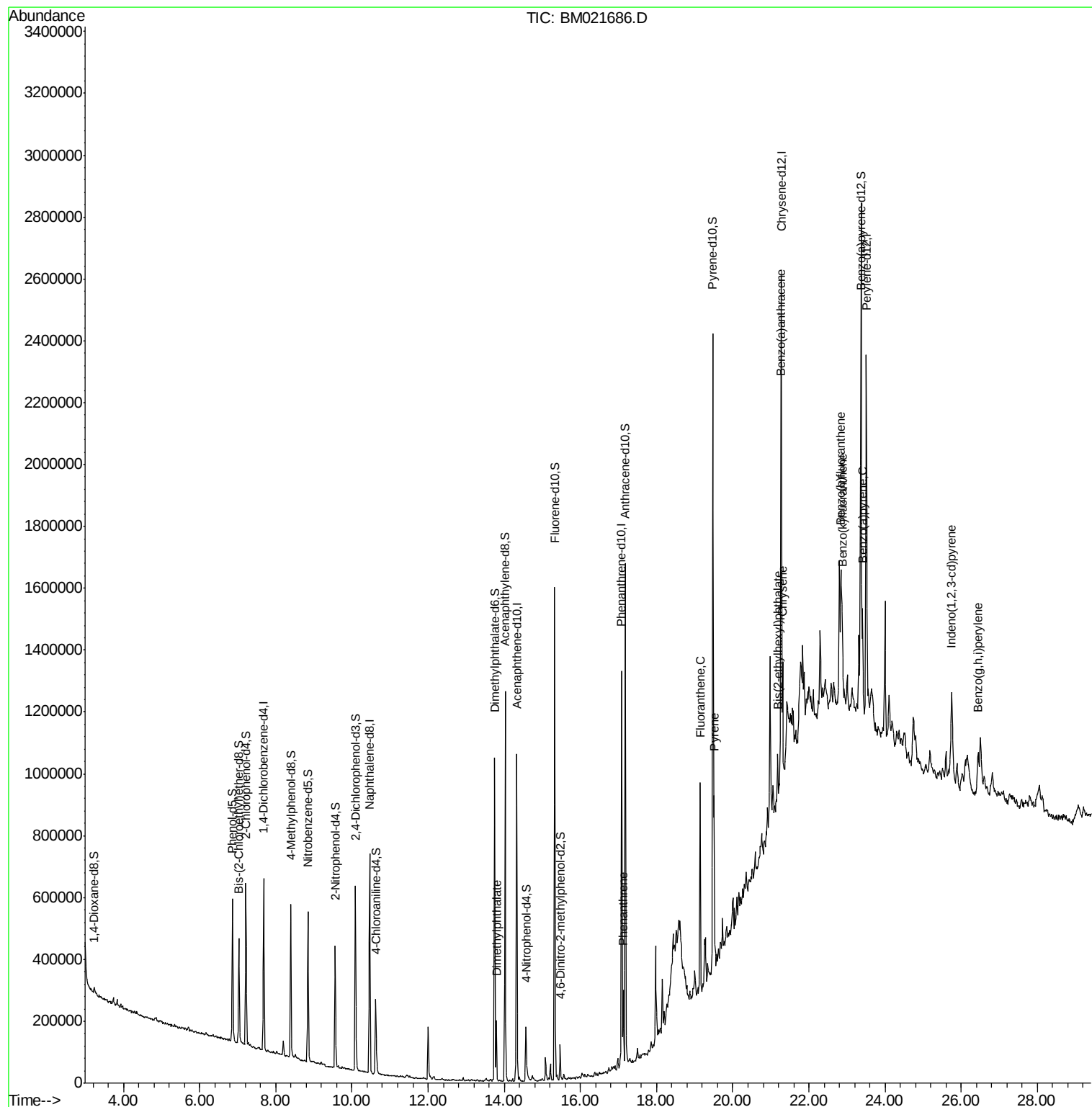
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072719\  
Data File : BM021686.D  
Acq On : 27 Jul 2019 13:07  
Operator : HP/JU  
Sample : K3893-17  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

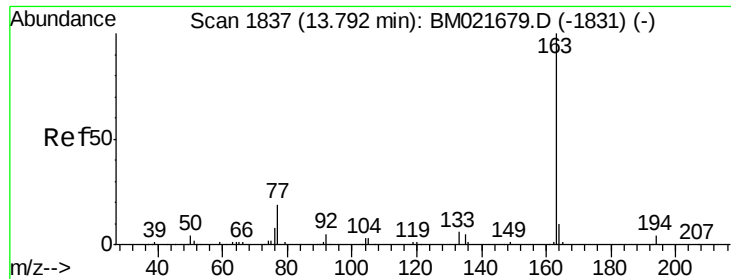
Instrument :  
BNA\_M  
ClientSampled :  
BEP21

Quant Time: Jul 29 05:13:11 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM072619MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Jul 26 18:42:09 2019  
Response via : Initial Calibration

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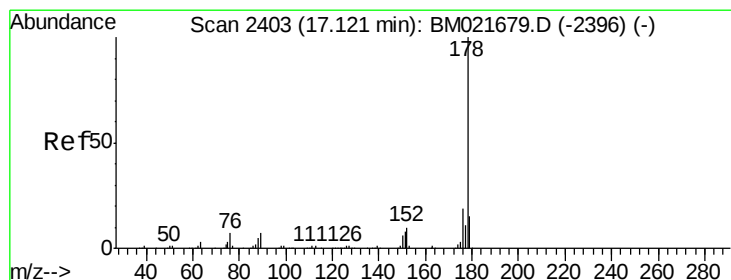
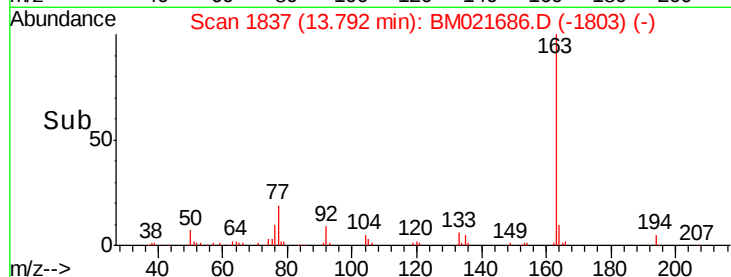
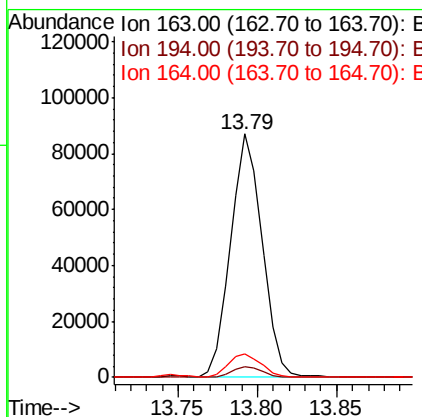
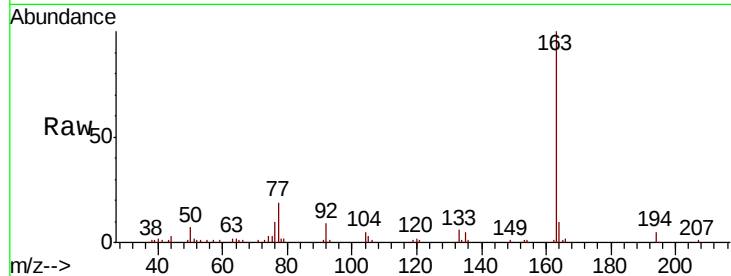
#44  
Dimethylphthalate  
Concen: 4.299 ng/ul  
RT: 13.79 min Scan# 1837  
Delta R.T. -0.00 min  
Lab File: BM021686.D  
Acq: 27 Jul 2019 13:07

Instrument :  
BNA\_M  
ClientSampled :  
BEP21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 120542 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.6   | 3.5   | 5.3    |
| 164       | 9.9   | 8.1   | 12.1   |

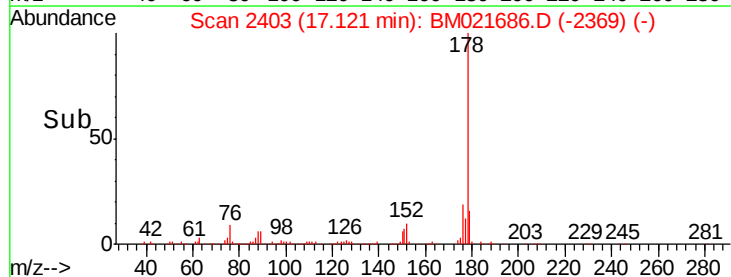
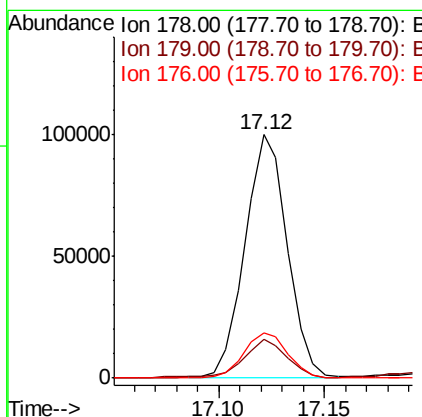
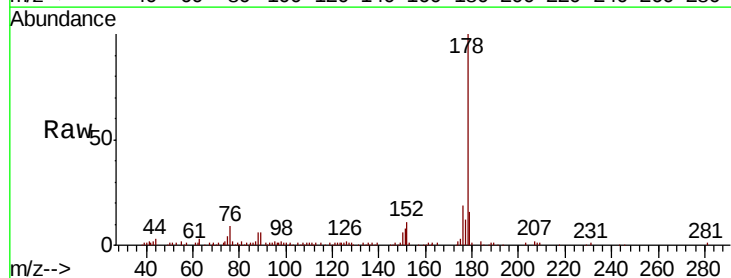
Manual Integrations  
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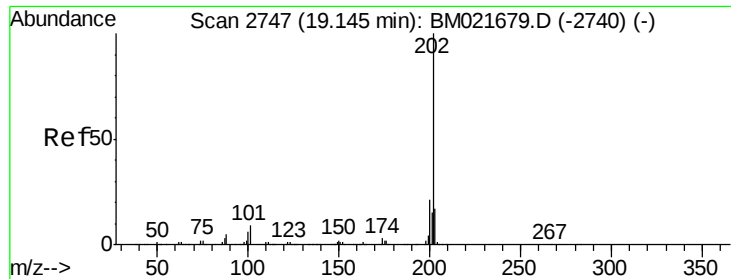
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#69  
Phenanthrene  
Concen: 3.234 ng/ul  
RT: 17.12 min Scan# 2403  
Delta R.T. -0.00 min  
Lab File: BM021686.D  
Acq: 27 Jul 2019 13:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 138245 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.7  | 12.5  | 18.7   |
| 176       | 18.7  | 15.4  | 23.2   |





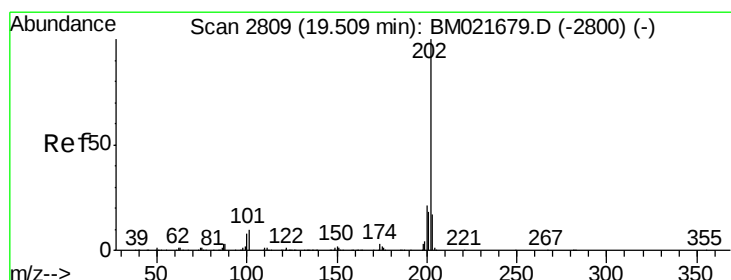
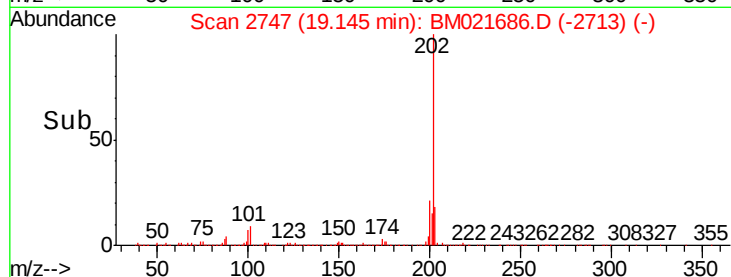
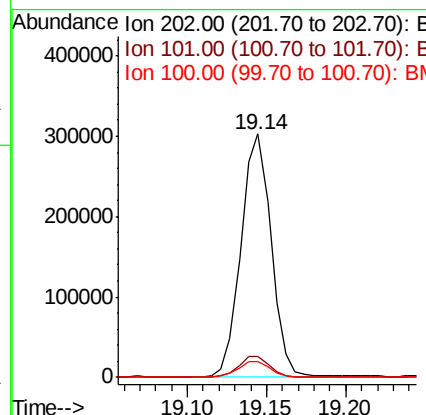
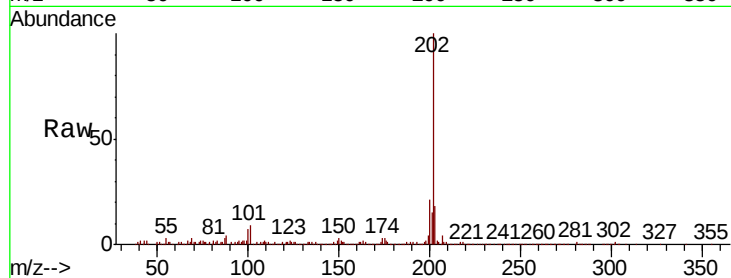
#76  
Fluoranthene  
Concen: 7.980 ng/ul  
RT: 19.14 min Scan# 2747  
Delta R.T. -0.00 min  
Lab File: BM021686.D  
Acq: 27 Jul 2019 13:07

Instrument :  
BNA\_M  
ClientSampleId :  
BEP21

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 398012 |       |       |
| 101     | 8.8 | 6.7   | 10.1   |       |       |
| 100     | 6.7 | 5.1   | 7.7    |       |       |

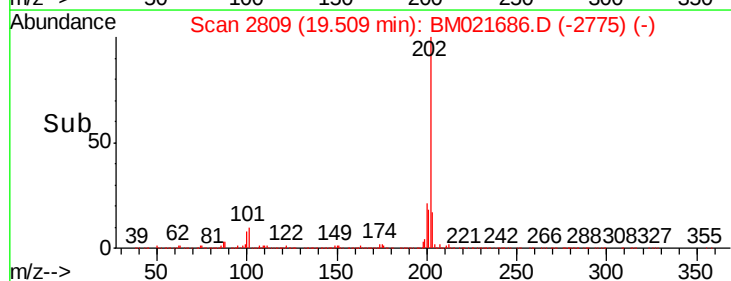
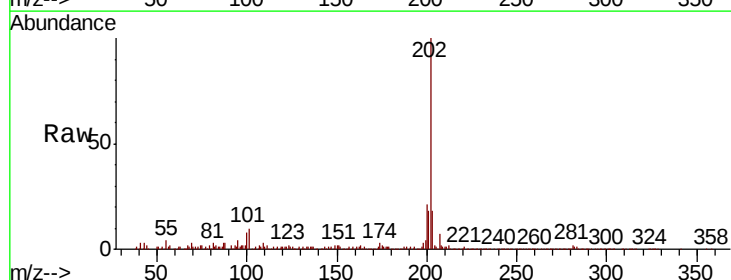
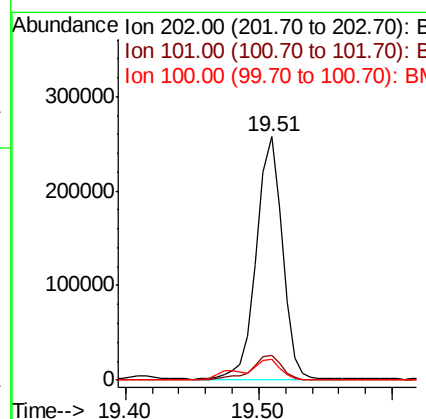
Manual Integrations  
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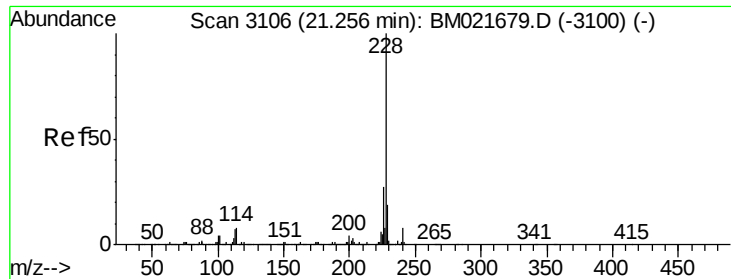
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#79  
Pyrene  
Concen: 6.495 ng/ul  
RT: 19.51 min Scan# 2809  
Delta R.T. -0.00 min  
Lab File: BM021686.D  
Acq: 27 Jul 2019 13:07

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 344300 |       |       |
| 101     | 10.2 | 8.2   | 12.2   |       |       |
| 100     | 8.3  | 7.0   | 10.4   |       |       |





#82

Benzo(a)anthracene

Concen: 3.872 ng/ul

RT: 21.26 min Scan# 3106

Delta R.T. -0.00 min

Lab File: BM021686.D

Acq: 27 Jul 2019 13:07

Instrument :

BNA\_M

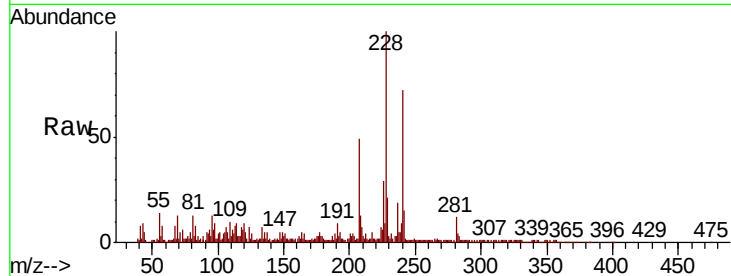
ClientSampleId :

BEP21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 200315 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.6  | 15.7  | 23.5   |
| 226       | 28.7  | 21.4  | 32.2   |

Manual Integrations  
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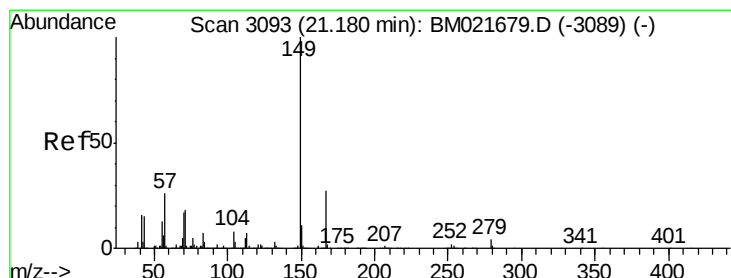
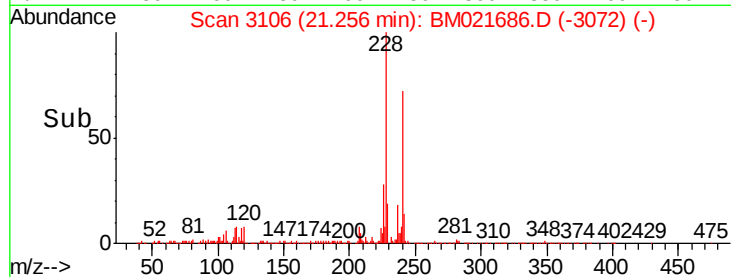
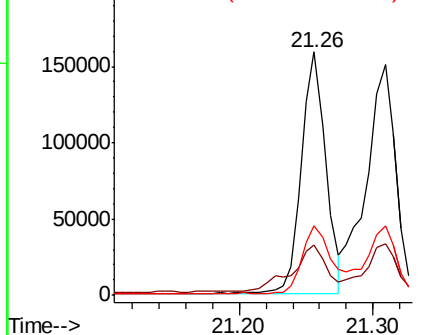


Abundance

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



#83

Bis(2-ethylhexyl)phthalate

Concen: 1.596 ng/ul

RT: 21.18 min Scan# 3093

Delta R.T. -0.00 min

Lab File: BM021686.D

Acq: 27 Jul 2019 13:07

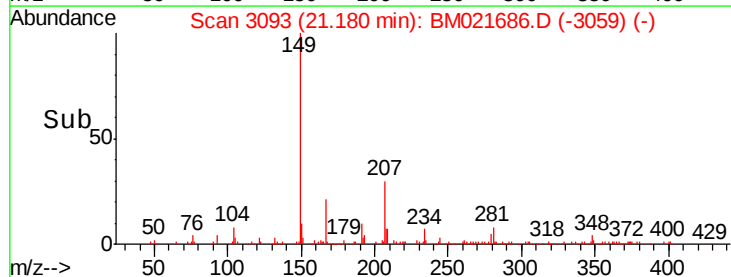
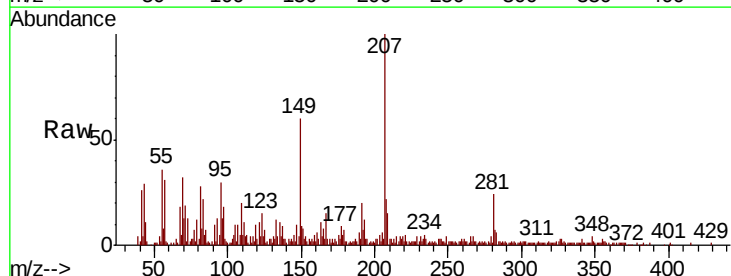
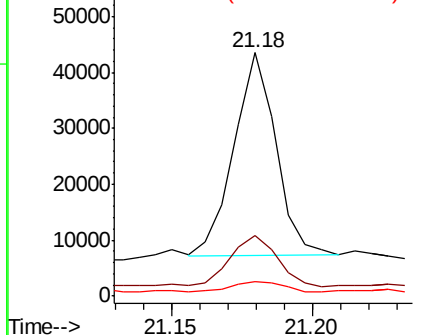
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 37582 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 25.1  | 21.6  | 32.4  |
| 279       | 6.2   | 3.8   | 5.6#  |

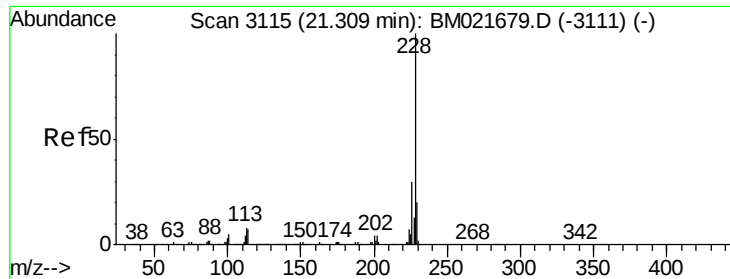
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





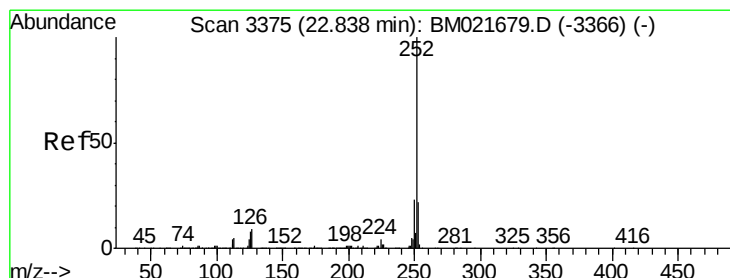
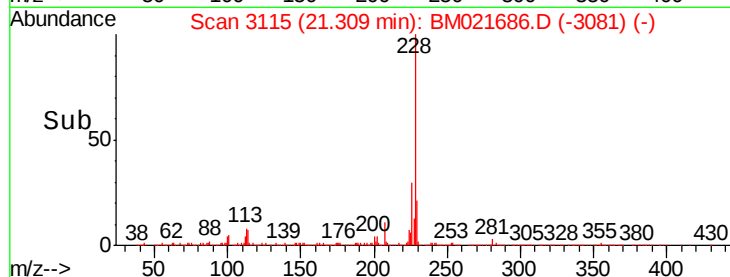
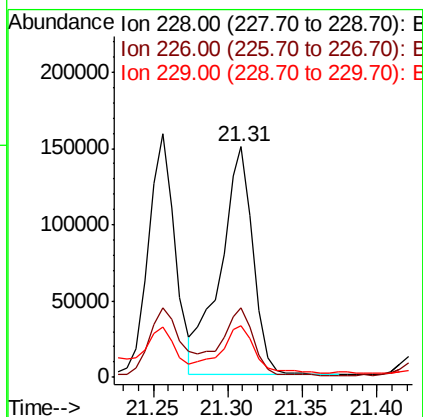
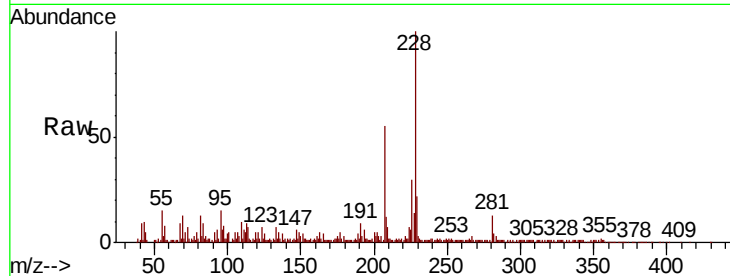
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Chrysene  
Concen: 4.675 ng/ul  
RT: 21.31 min Scan# 3115  
Delta R.T. -0.00 min  
Lab File: BM021686.D  
Acq: 27 Jul 2019 13:07

Instrument :  
BNA\_M  
ClientSampleId :  
BEP21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 228044 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.4  | 24.0  | 36.0   |
| 229       | 22.4  | 15.7  | 23.5   |

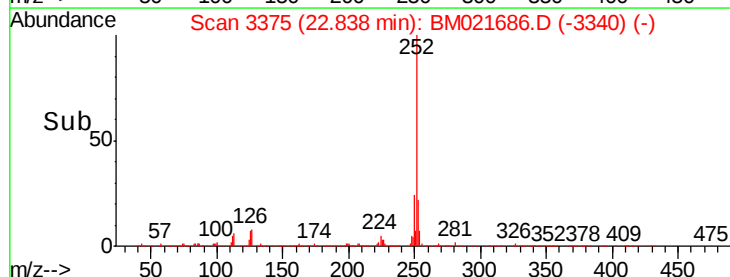
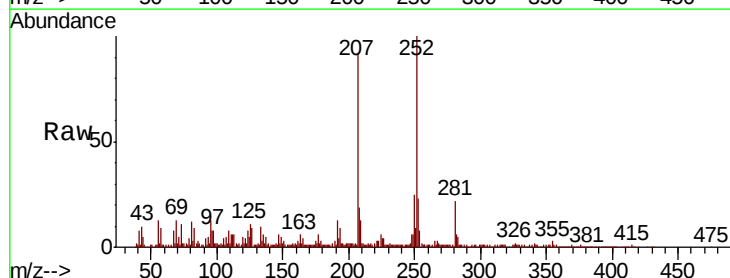
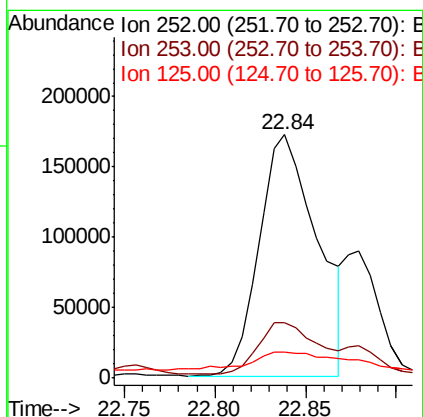
Manual Integrations  
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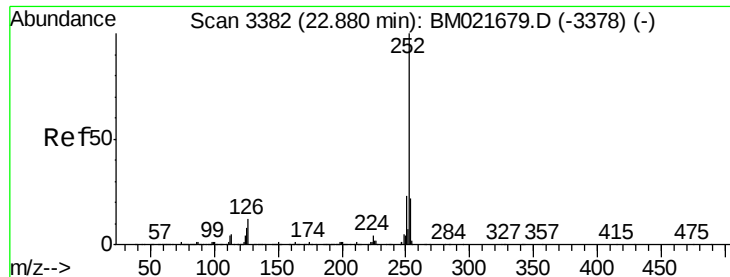
mohammad  
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#87  
Benzo(b)fluoranthene  
Concen: 6.469 ng/ul  
RT: 22.84 min Scan# 3375  
Delta R.T. 0.01 min  
Lab File: BM021686.D  
Acq: 27 Jul 2019 13:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 382065 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.9  | 17.3  | 25.9   |
| 125       | 10.6  | 6.3   | 9.5#   |





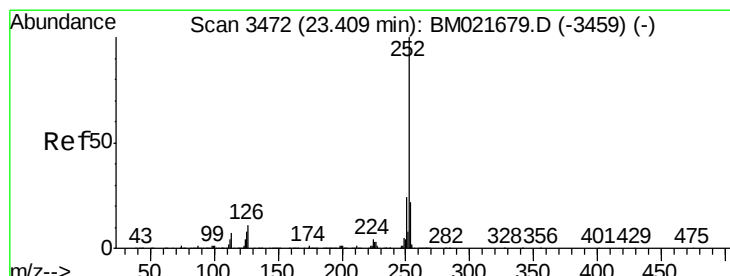
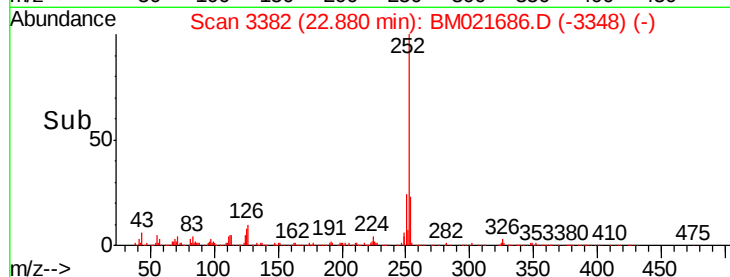
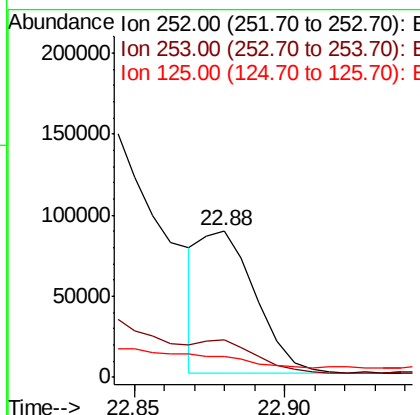
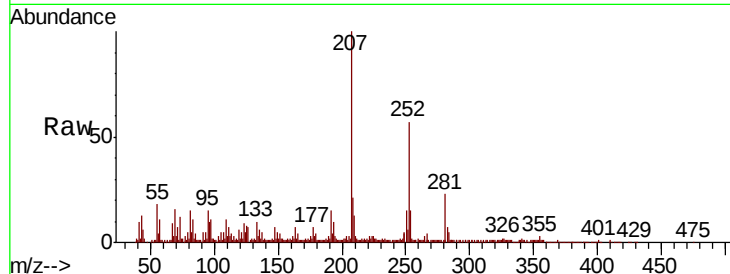
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Benzo(k)fluoranthene  
Concen: 1.927 ng/ul m  
RT: 22.88 min Scan# 3382  
Delta R.T. -0.00 min  
Lab File: BM021686.D  
Acq: 27 Jul 2019 13:07

Instrument :  
BNA\_M  
ClientSampleId :  
BEP21

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 17.7  | 26.5  |
| 125     | 14.3  | 6.3   | 9.5#  |

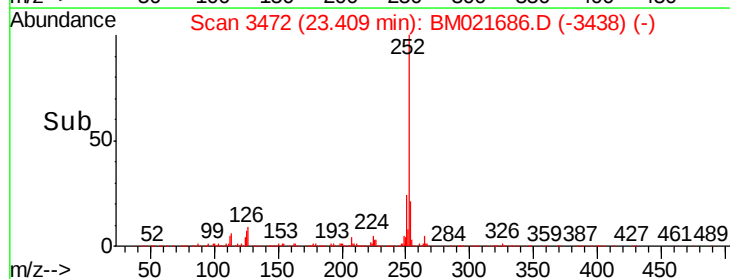
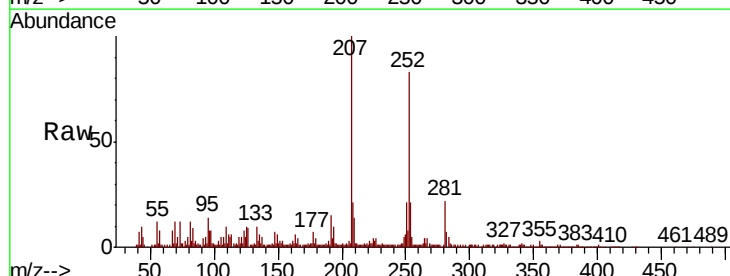
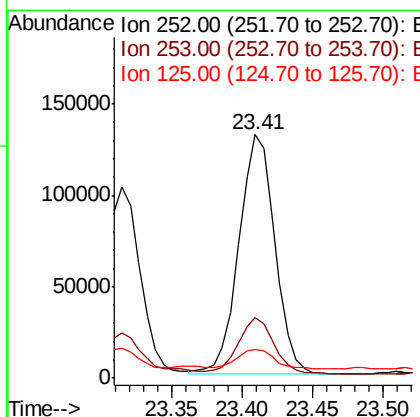
Manual Integrations  
APPROVED

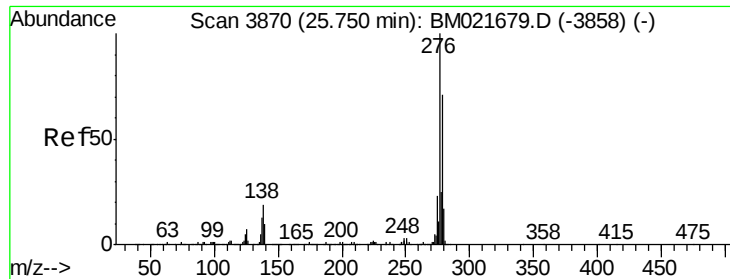
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#90  
Benzo(a)pyrene  
Concen: 4.235 ng/ul  
RT: 23.41 min Scan# 3472  
Delta R.T. -0.00 min  
Lab File: BM021686.D  
Acq: 27 Jul 2019 13:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 17.5  | 26.3  |
| 125     | 11.6  | 7.0   | 10.6# |





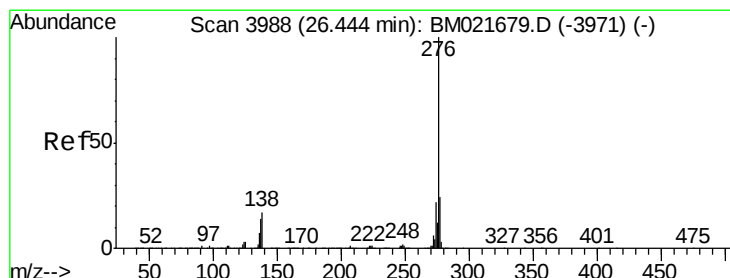
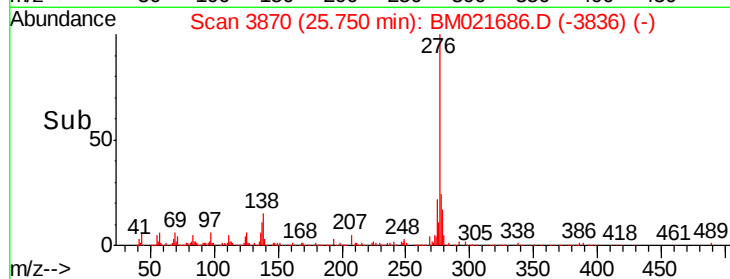
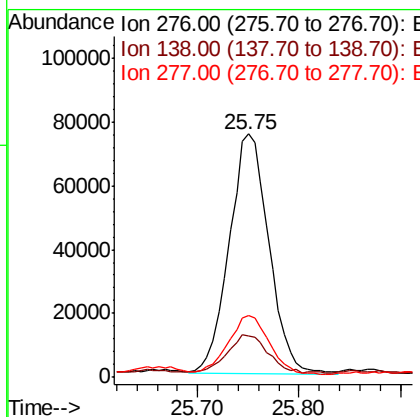
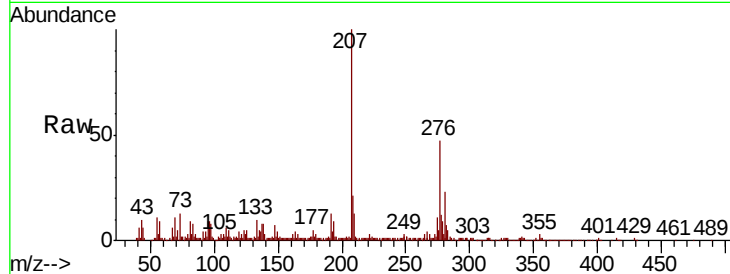
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 Indeno(1,2,3-cd)pyrene  
 Concen: 3.164 ng/ul  
 RT: 25.75 min Scan# 3870  
 Delta R.T. -0.00 min  
 Lab File: BM021686.D  
 Acq: 27 Jul 2019 13:07

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BEP21

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.2  | 14.8  | 22.2  |
| 277     | 25.4  | 19.7  | 29.5  |

Manual Integrations  
 APPROVED

mohammad  
 7/29/2019 2:29:47 PM



#93  
 Benzo(g,h,i)perylene  
 Concen: 3.386 ng/ul  
 RT: 26.44 min Scan# 3987  
 Delta R.T. -0.01 min  
 Lab File: BM021686.D  
 Acq: 27 Jul 2019 13:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.4  | 13.1  | 19.7  |
| 277     | 24.2  | 19.0  | 28.6  |

