

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM101417\  
 Data File : BM012185.D  
 Acq On : 15 Oct 2017 00:05  
 Operator : SJ/JU  
 Sample : I5522-15  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AC0

Manual Integrations  
 APPROVED

Sohil  
 10/16/2017 7:48:13 PM

Quant Time: Oct 15 06:37:57 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM101217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Oct 15 06:19:21 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.81  | 152  | 173511   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.61 | 136  | 790174   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.46 | 164  | 551269   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.21 | 188  | 1300813  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.39 | 240  | 1403097  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.70 | 264  | 1083779  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 12384   | 3.39  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.98  | 99  | 304271  | 21.61 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.14  | 67  | 178416  | 21.13 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.34  | 132 | 272352  | 22.81 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.52  | 113 | 253409  | 20.91 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.98  | 128 | 138501  | 22.97 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.70  | 143 | 168017  | 23.85 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.24 | 165 | 335266  | 24.92 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.76 | 131 | 224798  | 17.86 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.87 | 166 | 1267538 | 26.02 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.16 | 160 | 1518915 | 25.75 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.68 | 143 | 130373  | 17.80 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.46 | 176 | 1036573 | 25.92 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.59 | 200 | 194085  | 21.74 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.31 | 188 | 1652410 | 25.69 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.60 | 212 | 2039958 | 28.64 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.55 | 264 | 1486792 | 28.46 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue |    |
|--------------------------------|-------|-----|---------|--------|--------|----|
| 44) Dimethylphthalate          | 13.92 | 163 | 437764  | 8.968  | ng/ul  | 99 |
| 69) Phenanthrene               | 17.25 | 178 | 504051  | 6.812  | ng/ul  | 99 |
| 71) Anthracene                 | 17.34 | 178 | 102484  | 1.338  | ng/ul  | 99 |
| 73) Di-n-butylphthalate        | 18.16 | 149 | 138441  | 1.538  | ng/ul# | 97 |
| 74) Fluoranthene               | 19.27 | 202 | 1250099 | 13.998 | ng/ul# | 94 |
| 77) Pyrene                     | 19.63 | 202 | 1113560 | 12.017 | ng/ul# | 94 |
| 80) Benzo(a)anthracene         | 21.37 | 228 | 620123  | 6.792  | ng/ul  | 98 |
| 81) Bis(2-ethylhexyl)phthalate | 21.28 | 149 | 261809  | 4.230  | ng/ul  | 96 |
| 82) Chrysene                   | 21.42 | 228 | 558930  | 6.521  | ng/ul  | 98 |
| 85) Benzo(b)fluoranthene       | 23.00 | 252 | 680970  | 9.628  | ng/ul# | 96 |
| 86) Benzo(k)fluoranthene       | 23.04 | 252 | 240110m | 3.523  | ng/ul  |    |
| 88) Benzo(a)pyrene             | 23.59 | 252 | 481736  | 7.227  | ng/ul# | 96 |
| 89) Indeno(1,2,3-cd)pyrene     | 26.05 | 276 | 273971  | 3.870  | ng/ul# | 97 |
| 90) Dibenzo(a,h)anthracene     | 26.06 | 278 | 68625   | 1.153  | ng/ul# | 87 |
| 91) Benzo(g,h,i)perylene       | 26.78 | 276 | 244215  | 4.212  | ng/ul# | 92 |

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

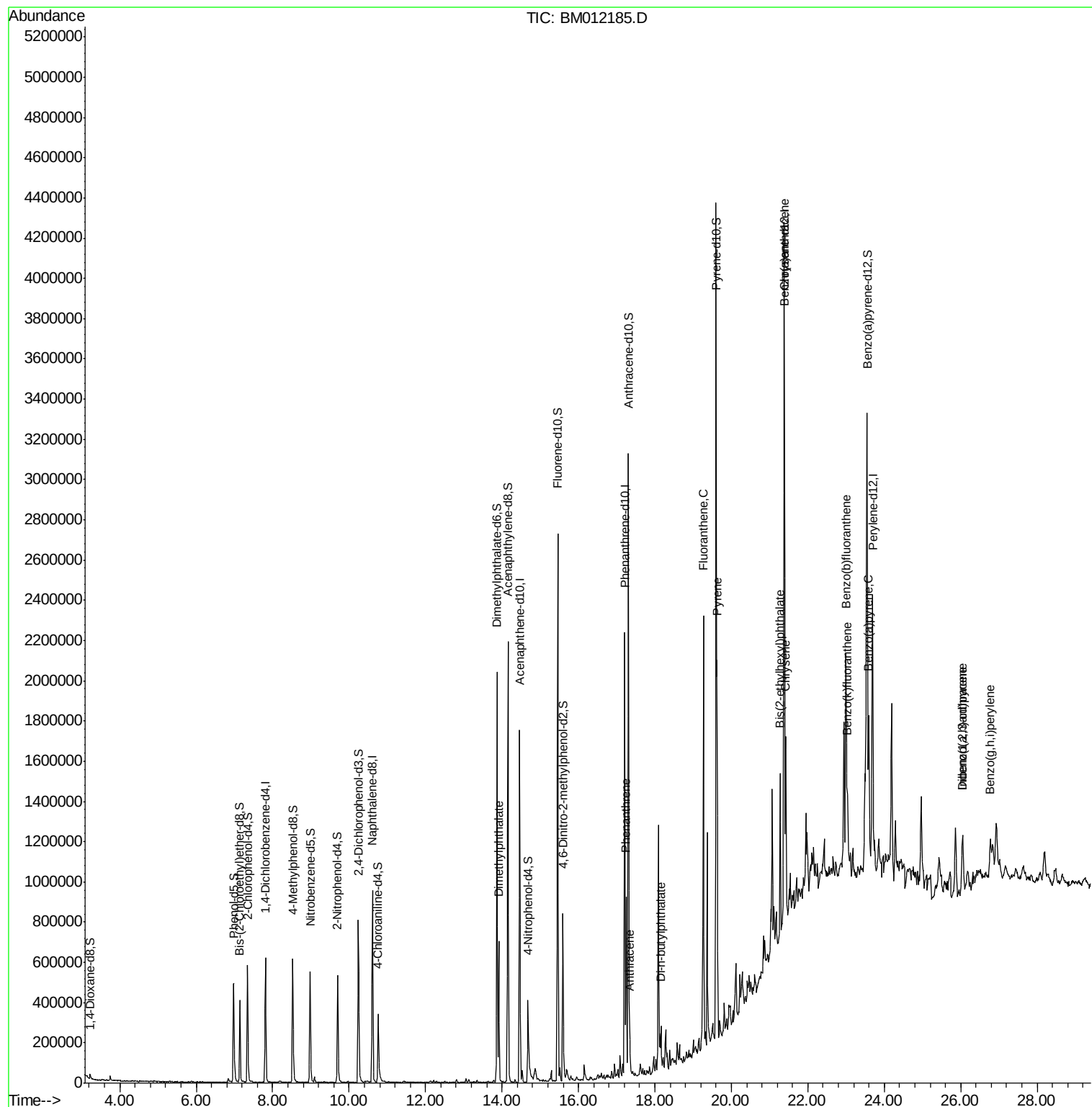
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM101417\  
Data File : BM012185.D  
Acq On : 15 Oct 2017 00:05  
Operator : SJ/JU  
Sample : I5522-15  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

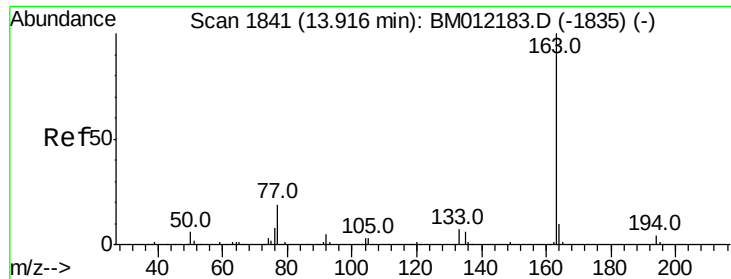
Instrument :  
BNA\_M  
ClientSampled :  
C0AC0

Manual Integrations  
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Quant Time: Oct 15 06:37:57 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM101217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sun Oct 15 06:19:21 2017  
Response via : Initial Calibration





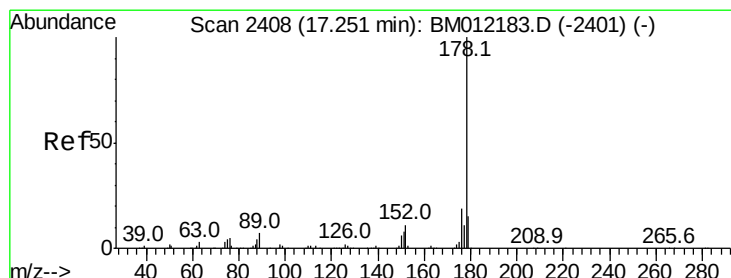
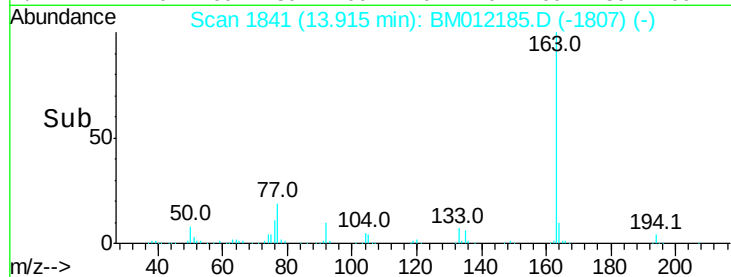
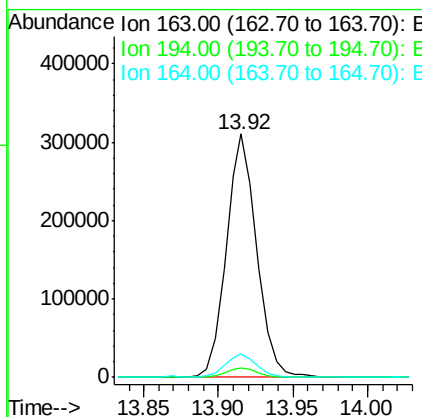
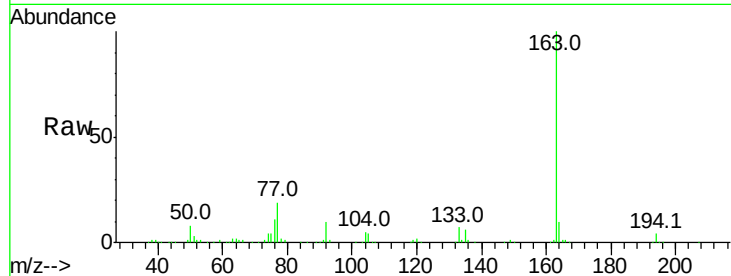
#44  
Dimethylphthalate  
Concen: 8.968 ng/ul  
RT: 13.92 min Scan# 1841  
Delta R.T. -0.00 min  
Lab File: BM012185.D  
Acq: 15 Oct 2017 00:05

Instrument :  
BNA\_M  
ClientSampleId :  
C0AC0

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 437764 |       |       |
| 194     | 4.0   |        | 3.5   | 5.3   |
| 164     | 9.8   |        | 8.2   | 12.4  |

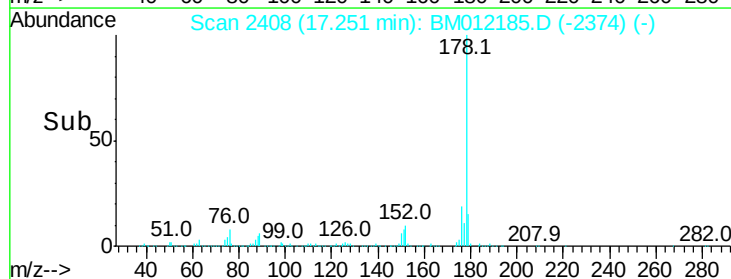
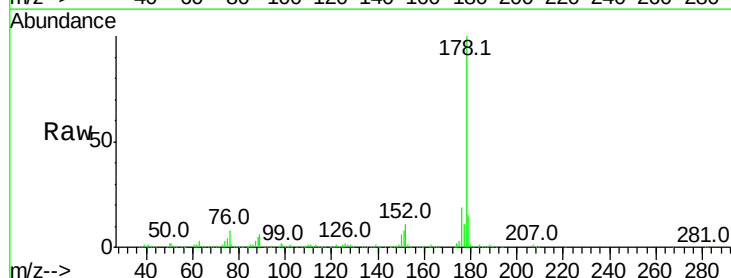
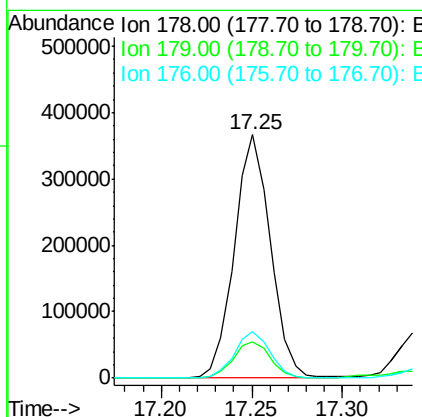
Manual Integrations  
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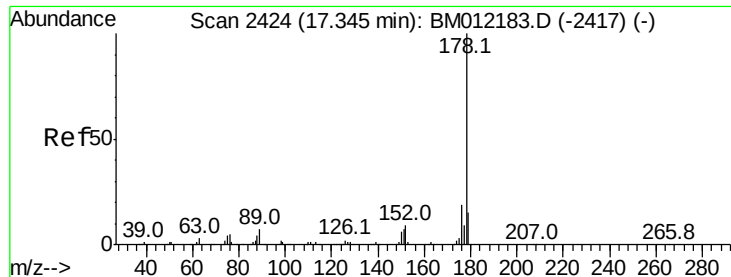
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#69  
Phenanthrene  
Concen: 6.812 ng/ul  
RT: 17.25 min Scan# 2408  
Delta R.T. -0.00 min  
Lab File: BM012185.D  
Acq: 15 Oct 2017 00:05

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 504051 |       |       |
| 179     | 14.9  |        | 12.6  | 19.0  |
| 176     | 19.0  |        | 14.9  | 22.3  |





#71

Anthracene

Concen: 1.338 ng/ul

RT: 17.34 min Scan# 2424

Delta R.T. -0.00 min

Lab File: BM012185.D

Acq: 15 Oct 2017 00:05

Instrument :

BNA\_M

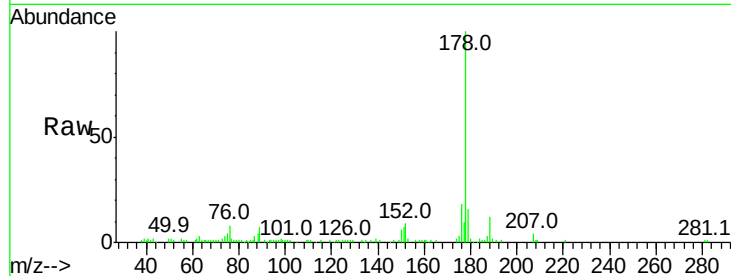
ClientSampled :

C0AC0

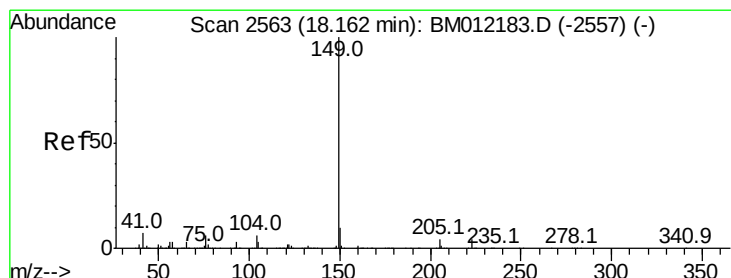
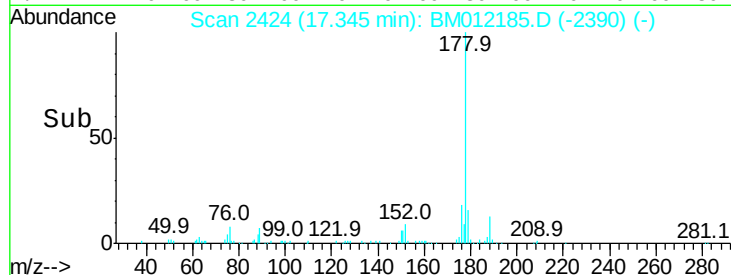
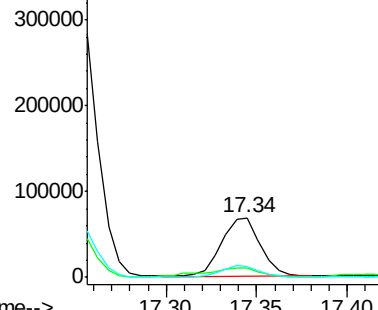
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 102484 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.6  | 11.7  | 17.5   |
| 176       | 18.3  | 14.6  | 21.8   |

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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



#73

Di-n-butylphthalate

Concen: 1.538 ng/ul

RT: 18.16 min Scan# 2563

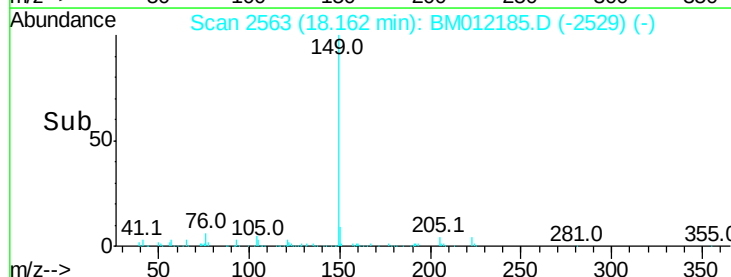
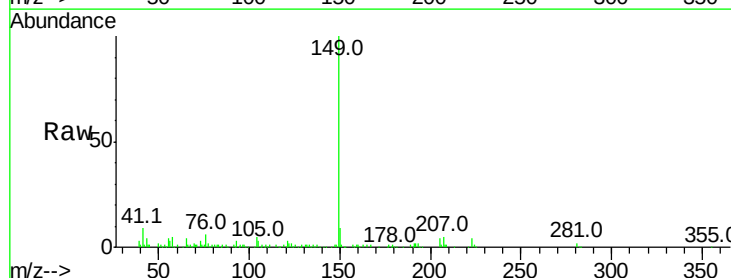
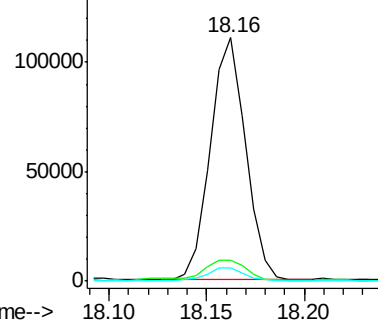
Delta R.T. -0.00 min

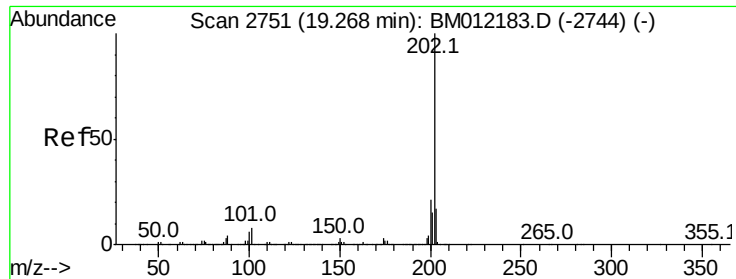
Lab File: BM012185.D

Acq: 15 Oct 2017 00:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 138441 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 150       | 8.7   | 7.1   | 10.7   |
| 104       | 5.2   | 5.6   | 8.4#   |

Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 13.998 ng/ul

RT: 19.27 min Scan# 2751

Delta R.T. -0.00 min

Lab File: BM012185.D

Acq: 15 Oct 2017 00:05

Instrument :

BNA\_M

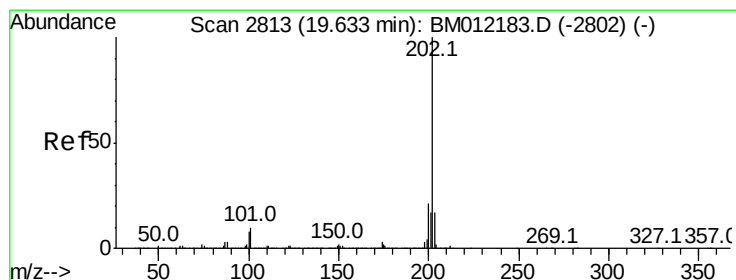
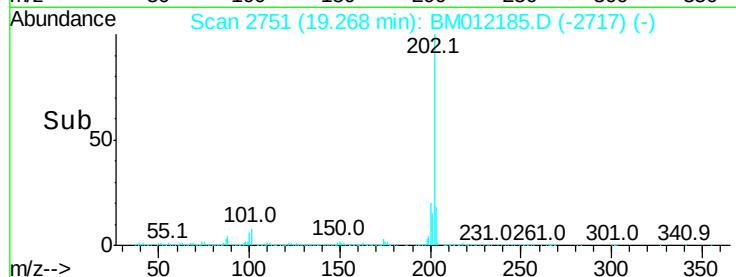
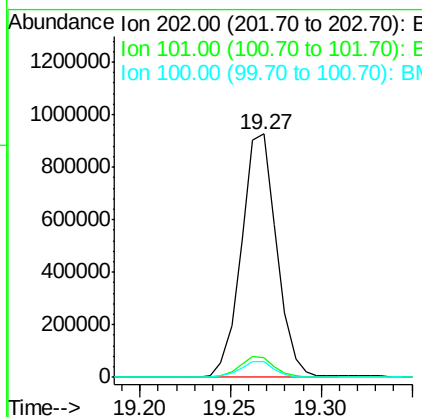
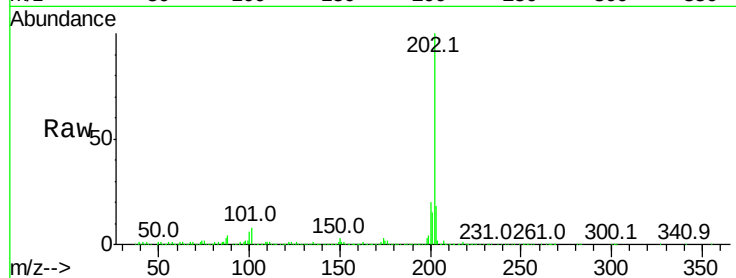
ClientSampleId :

C0AC0

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 1250099 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 7.8   | 4.6   | 7.0#    |
| 100      | 6.3   | 3.4   | 5.2#    |

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#77

Pyrene

Concen: 12.017 ng/ul

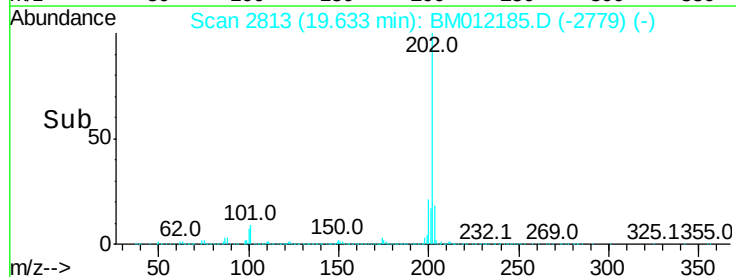
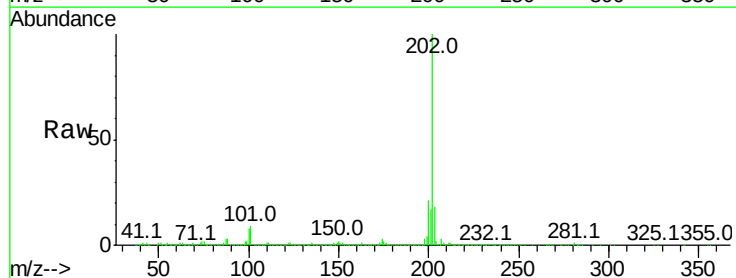
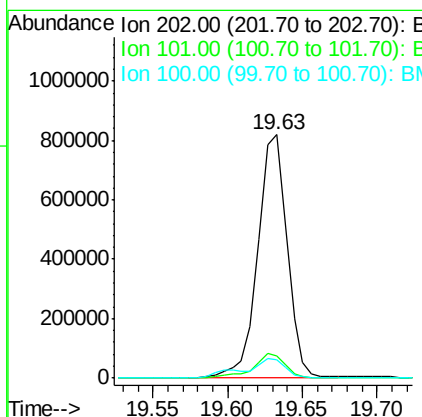
RT: 19.63 min Scan# 2813

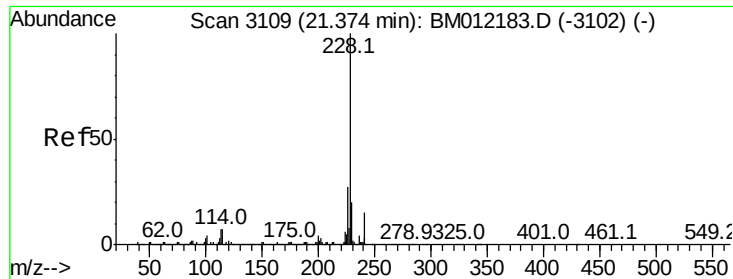
Delta R.T. -0.00 min

Lab File: BM012185.D

Acq: 15 Oct 2017 00:05

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 202   | Resp: | 1113560 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 9.4   | 5.1   | 7.7#    |
| 100      | 7.5   | 4.9   | 7.3#    |





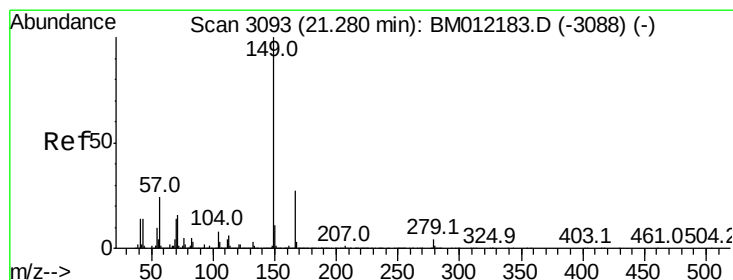
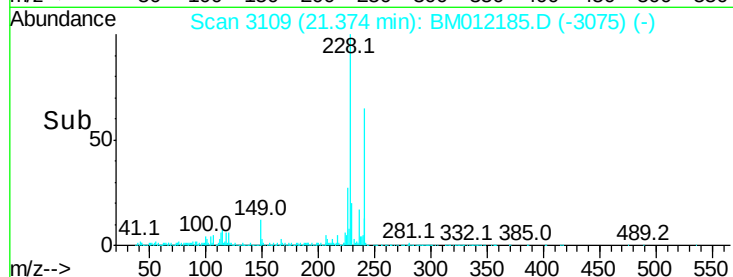
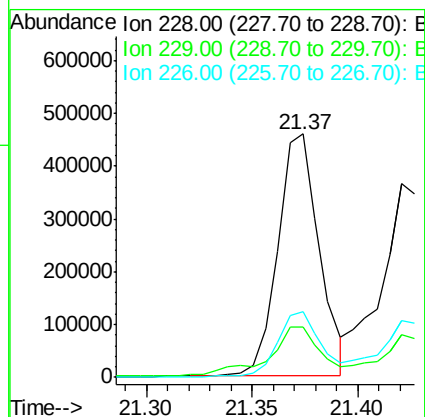
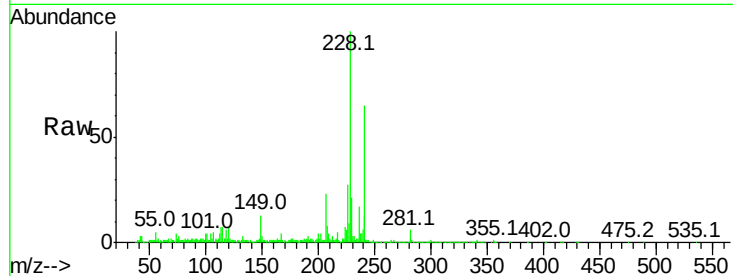
#80  
Benzo(a)anthracene  
Concen: 6.792 ng/ul  
RT: 21.37 min Scan# 3109  
Delta R.T. -0.00 min  
Lab File: BM012185.D  
Acq: 15 Oct 2017 00:05

Instrument :  
BNA\_M  
ClientSampled :  
C0AC0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.5  | 15.4  | 23.0  |
| 226     | 27.0  | 21.4  | 32.0  |

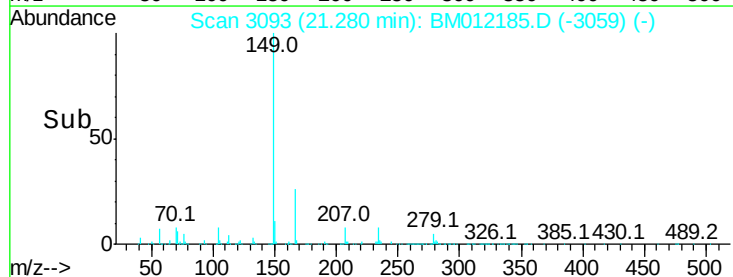
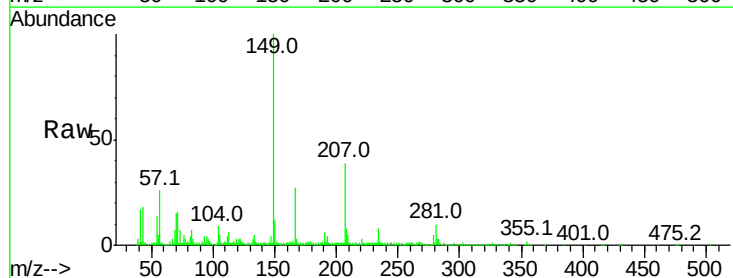
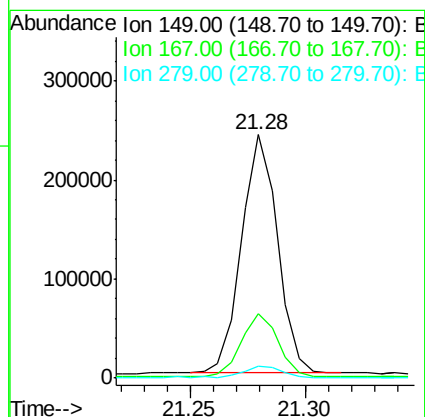
Manual Integrations  
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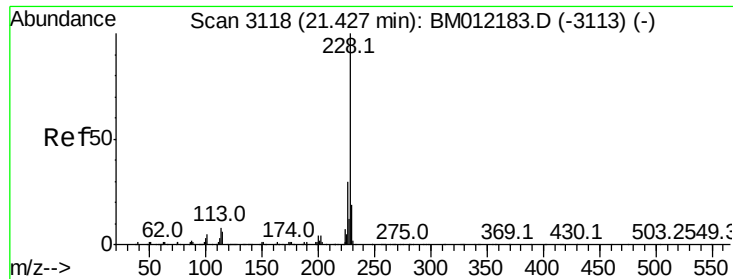
Sohil  
10/16/2017 7:48:13 PM



#81  
Bis(2-ethylhexyl)phthalate  
Concen: 4.230 ng/ul  
RT: 21.28 min Scan# 3093  
Delta R.T. -0.00 min  
Lab File: BM012185.D  
Acq: 15 Oct 2017 00:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.6  | 22.8  | 34.2  |
| 279     | 5.0   | 4.9   | 7.3   |





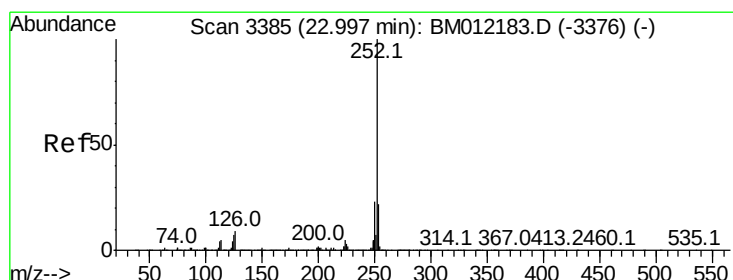
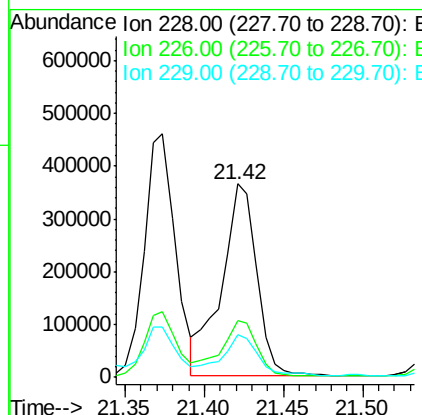
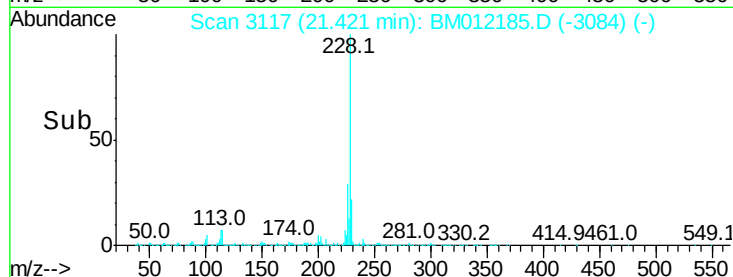
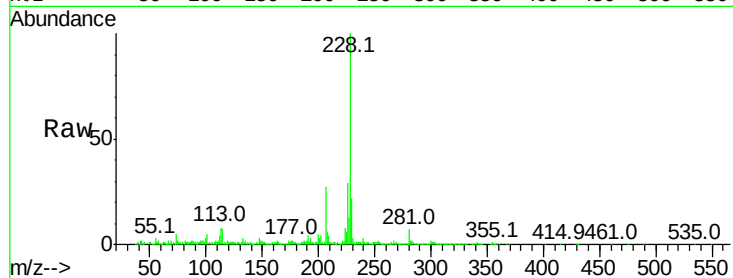
#82  
Chrysene  
Concen: 6.521 ng/ul  
RT: 21.42 min Scan# 3117  
Delta R.T. -0.01 min  
Lab File: BM012185.D  
Acq: 15 Oct 2017 00:05

Instrument :  
BNA\_M  
ClientSampleId :  
C0AC0

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 558930 |       |       |
| 226     | 29.4  |        | 23.4  | 35.2  |
| 229     | 22.0  |        | 15.5  | 23.3  |

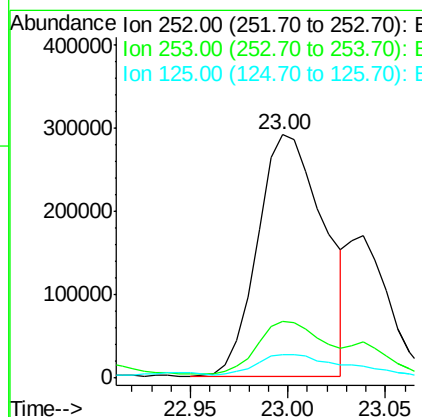
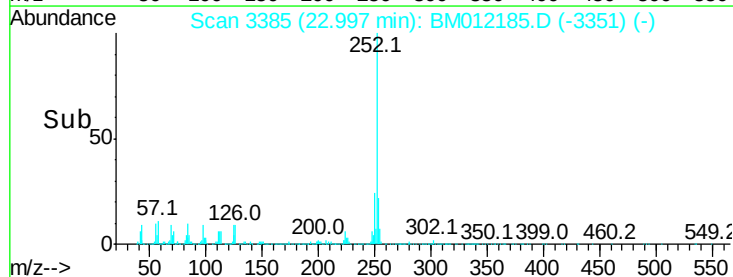
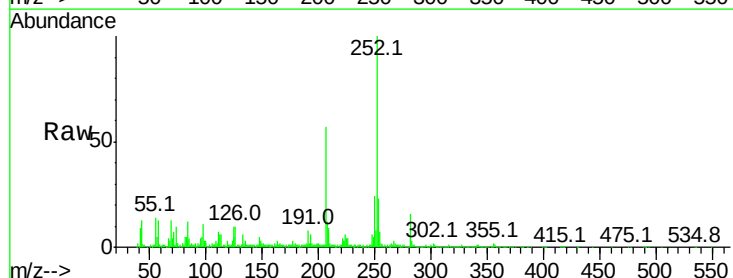
Manual Integrations  
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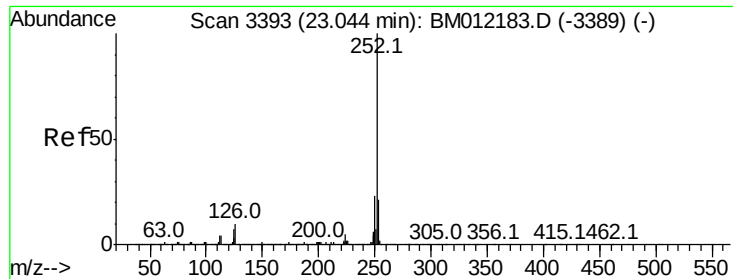
Sohil  
10/16/2017 7:48:13 PM



#85  
Benzo(b)fluoranthene  
Concen: 9.628 ng/ul  
RT: 23.00 min Scan# 3385  
Delta R.T. -0.00 min  
Lab File: BM012185.D  
Acq: 15 Oct 2017 00:05

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 680970 |       |       |
| 253     | 23.4  |        | 17.9  | 26.9  |
| 125     | 9.8   |        | 3.6   | 5.4#  |





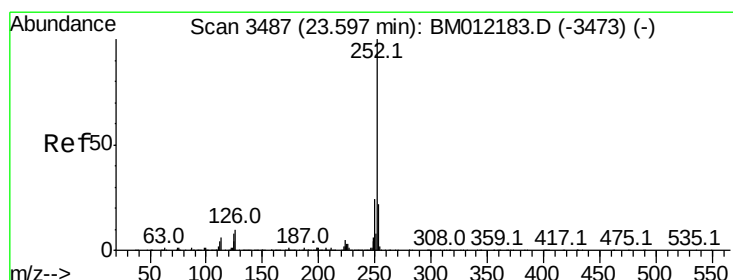
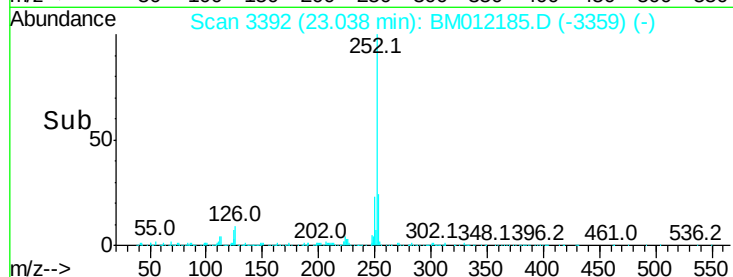
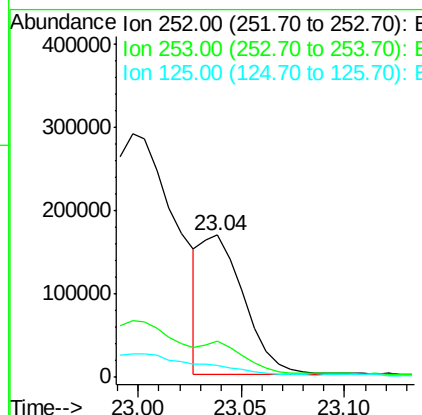
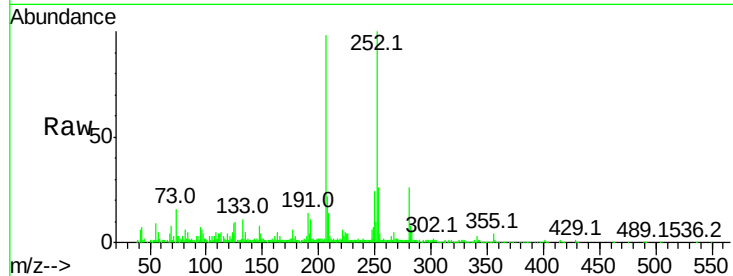
#86  
Benzo(k)fluoranthene  
Concen: 3.523 ng/ul m  
RT: 23.04 min Scan# 3392  
Delta R.T. -0.01 min  
Lab File: BM012185.D  
Acq: 15 Oct 2017 00:05

Instrument :  
BNA\_M  
ClientSampleId :  
C0AC0

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 240110 |       |       |
| 253     | 25.5  | 17.1   | 25.7  |       |
| 125     | 8.6   | 3.4    | 5.2#  |       |

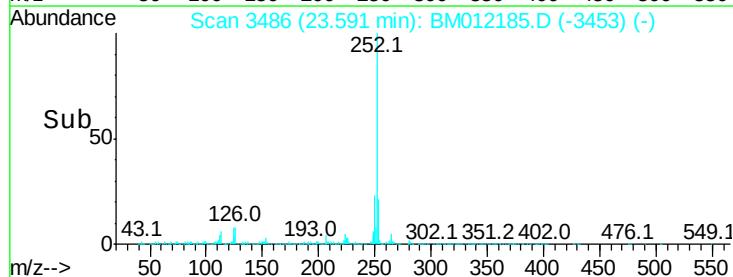
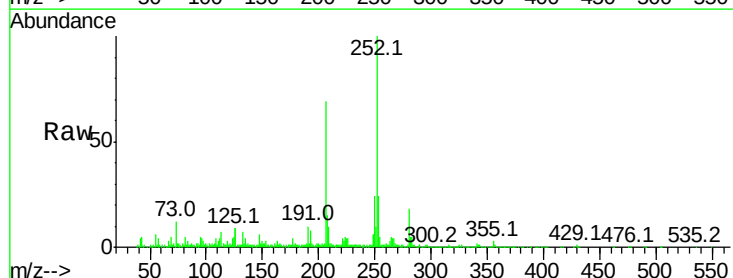
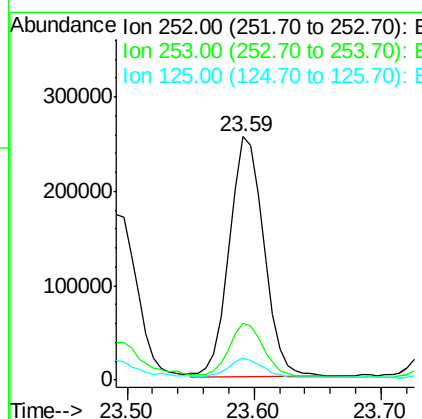
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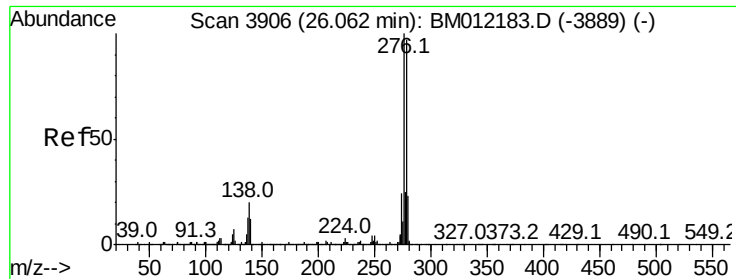


#88  
Benzo(a)pyrene  
Concen: 7.227 ng/ul  
RT: 23.59 min Scan# 3486  
Delta R.T. -0.01 min  
Lab File: BM012185.D  
Acq: 15 Oct 2017 00:05

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 481736 |       |       |
| 253     | 23.6  | 18.2   | 27.2  |       |
| 125     | 9.3   | 4.0    | 6.0#  |       |







#89

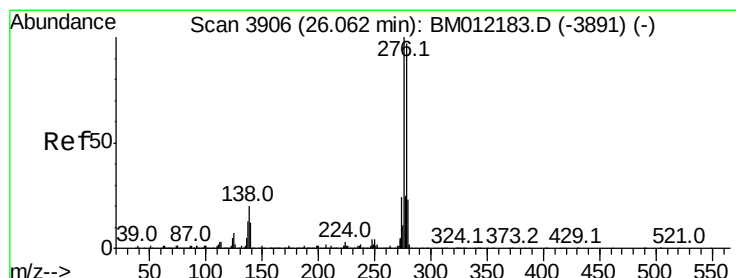
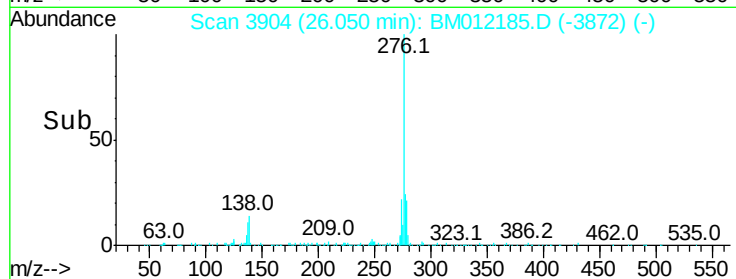
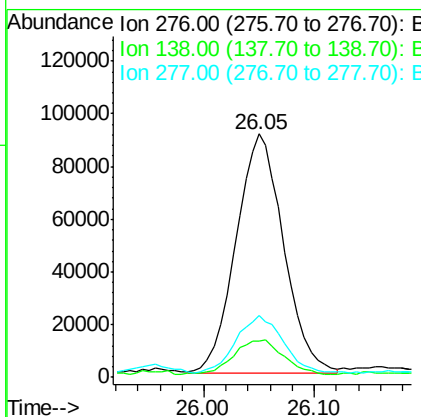
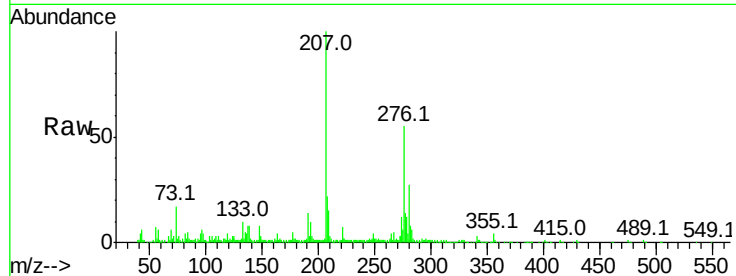
Indeno(1,2,3-cd)pyrene  
Concen: 3.870 ng/ul  
RT: 26.05 min Scan# 3904  
Delta R.T. -0.01 min  
Lab File: BM012185.D  
Acq: 15 Oct 2017 00:05

Instrument :  
BNA\_M  
ClientSampleId :  
C0AC0

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 273971 |       |       |
| 138     | 15.1  | 9.3    | 13.9# |       |
| 277     | 25.2  | 19.9   | 29.9  |       |

Manual Integrations  
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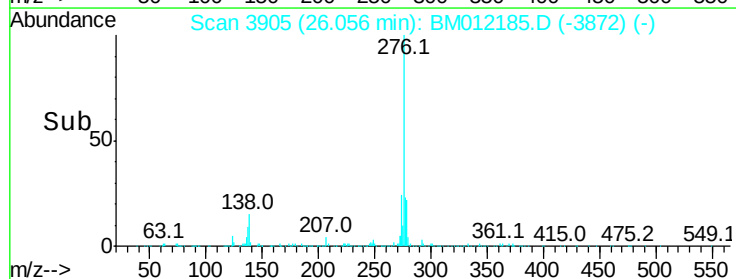
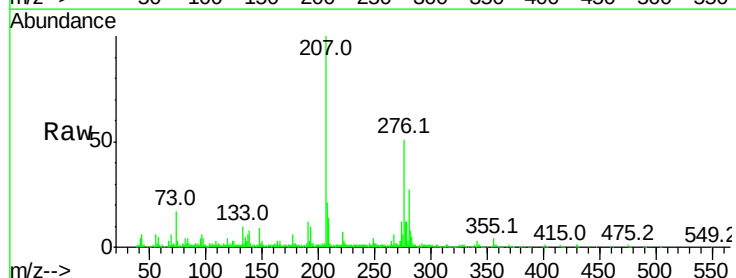
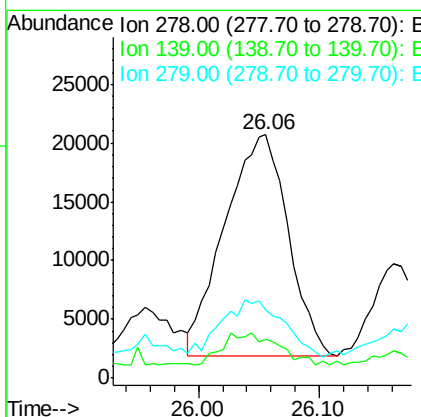
Sohil  
10/16/2017 7:48:13 PM

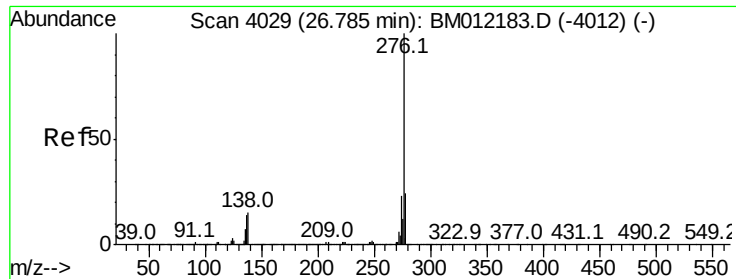


#90

Dibenzo(a,h)anthracene  
Concen: 1.153 ng/ul  
RT: 26.06 min Scan# 3905  
Delta R.T. -0.01 min  
Lab File: BM012185.D  
Acq: 15 Oct 2017 00:05

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 278     | 100   | 68625 |       |       |
| 139     | 15.9  | 5.8   | 8.8#  |       |
| 279     | 28.1  | 18.6  | 27.8# |       |





#91

Benzo(a,h,i)perylene

Concen: 4.212 ng/ul

RT: 26.78 min Scan# 4028

Delta R.T. -0.01 min

Lab File: BM012185.D

Acq: 15 Oct 2017 00:05

Instrument :

BNA\_M

ClientSampleId :

C0AC0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 244215 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 17.3  | 8.5   | 12.7#  |
| 277       | 25.3  | 18.6  | 28.0   |

Manual Integrations  
APPROVED

Sohil  
10/16/2017 7:48:13 PM

