

Data Path : Z:\HPCHEM1\BNA M\DATA\BM100417\  
 Data File : BM011903.D  
 Acq On : 04 Oct 2017 22:54  
 Operator : SJ/JU  
 Sample : I5414-08  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 B0BL3

Manual Integrations  
 APPROVED

Sohil  
 10/5/2017 6:17:55 PM

Quant Time: Oct 05 07:35:21 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 05 07:08:17 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.87  | 152  | 322311   | 20.00  | ng/ul  | 0.00     |
| 18) Naphthalene-d8             | 10.68 | 136  | 1435271  | 20.00  | ng/ul  | 0.00     |
| 35) Acenaphthene-d10           | 14.52 | 164  | 883221   | 20.00  | ng/ul  | 0.00     |
| 61) Phenanthrene-d10           | 17.26 | 188  | 2007313  | 20.00  | ng/ul  | 0.00     |
| 75) Chrysene-d12               | 21.43 | 240  | 1643157  | 20.00  | ng/ul  | 0.00     |
| 83) Perylene-d12               | 23.76 | 264  | 1545570  | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds    |       |      |          |        |        |          |
| 3) 1,4-Dioxane-d8              | 3.29  | 96   | 19246    | 2.82   | ng/uL  | 0.00     |
| 5) Phenol-d5                   | 7.03  | 99   | 485326   | 17.50  | ng/ul  | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.20  | 67   | 287179   | 17.50  | ng/ul  | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.40  | 132  | 428469   | 19.26  | ng/ul  | 0.00     |
| 13) 4-Methylphenol-d8          | 8.57  | 113  | 415689   | 17.34  | ng/ul  | 0.00     |
| 19) Nitrobenzene-d5            | 9.04  | 128  | 203297   | 19.89  | ng/ul  | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.76  | 143  | 233612   | 20.29  | ng/ul  | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.30 | 165  | 465890   | 20.03  | ng/ul  | 0.00     |
| 29) 4-Chloroaniline-d4         | 10.82 | 131  | 392359   | 15.45  | ng/ul  | 0.00     |
| 43) Dimethylphthalate-d6       | 13.92 | 166  | 1497008  | 19.56  | ng/ul  | 0.00     |
| 46) Acenaphthylene-d8          | 14.21 | 160  | 1843220  | 20.49  | ng/ul  | 0.00     |
| 51) 4-Nitrophenol-d4           | 14.71 | 143  | 159833m  | 11.95  | ng/ul  | 0.00     |
| 57) Fluorene-d10               | 15.51 | 176  | 1325593  | 19.62  | ng/ul  | 0.00     |
| 62) 4,6-Dinitro-2-methylphenol | 15.63 | 200  | 139891   | 10.36  | ng/ul  | 0.00     |
| 70) Anthracene-d10             | 17.36 | 188  | 2073186  | 20.96  | ng/ul  | 0.00     |
| 76) Pyrene-d10                 | 19.65 | 212  | 2084920  | 28.13  | ng/ul  | 0.00     |
| 87) Benzo(a)pyrene-d12         | 23.61 | 264  | 1522254  | 20.47  | ng/ul  | 0.00     |
| Target Compounds               |       |      |          |        |        |          |
| 6) Phenol                      | 7.06  | 94   | 33297    | 1.213  | ng/ul# | 83       |
| 44) Dimethylphthalate          | 13.97 | 163  | 541135   | 7.348  | ng/ul  | 98       |
| 47) Acenaphthylene             | 14.24 | 152  | 232476   | 2.665  | ng/ul  | 99       |
| 69) Phenanthrene               | 17.30 | 178  | 1938819  | 17.559 | ng/ul  | 99       |
| 71) Anthracene                 | 17.39 | 178  | 247838   | 2.206  | ng/ul  | 97       |
| 72) Carbazole                  | 17.66 | 167  | 132557   | 1.362  | ng/ul  | 99       |
| 74) Fluoranthene               | 19.32 | 202  | 4013317  | 29.790 | ng/ul# | 91       |
| 77) Pyrene                     | 19.68 | 202  | 3346042  | 36.726 | ng/ul# | 90       |
| 80) Benzo(a)anthracene         | 21.42 | 228  | 1392032  | 14.788 | ng/ul  | 96       |
| 81) Bis(2-ethylhexyl)phthalate | 21.33 | 149  | 108738   | 2.048  | ng/ul  | 100      |
| 82) Chrysene                   | 21.47 | 228  | 1989362  | 22.243 | ng/ul  | 96       |
| 85) Benzo(b)fluoranthene       | 23.06 | 252  | 2533434  | 26.967 | ng/ul# | 97       |
| 86) Benzo(k)fluoranthene       | 23.10 | 252  | 833684m  | 8.889  | ng/ul  |          |
| 88) Benzo(a)pyrene             | 23.66 | 252  | 1532209  | 16.974 | ng/ul# | 97       |
| 89) Indeno(1,2,3-cd)pyrene     | 26.14 | 276  | 1238423  | 12.820 | ng/ul# | 95       |
| 90) Dibenzo(a,h)anthracene     | 26.15 | 278  | 305216   | 3.845  | ng/ul# | 80       |
| 91) Benzo(g,h,i)perylene       | 26.88 | 276  | 1098225  | 13.744 | ng/ul# | 92       |

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

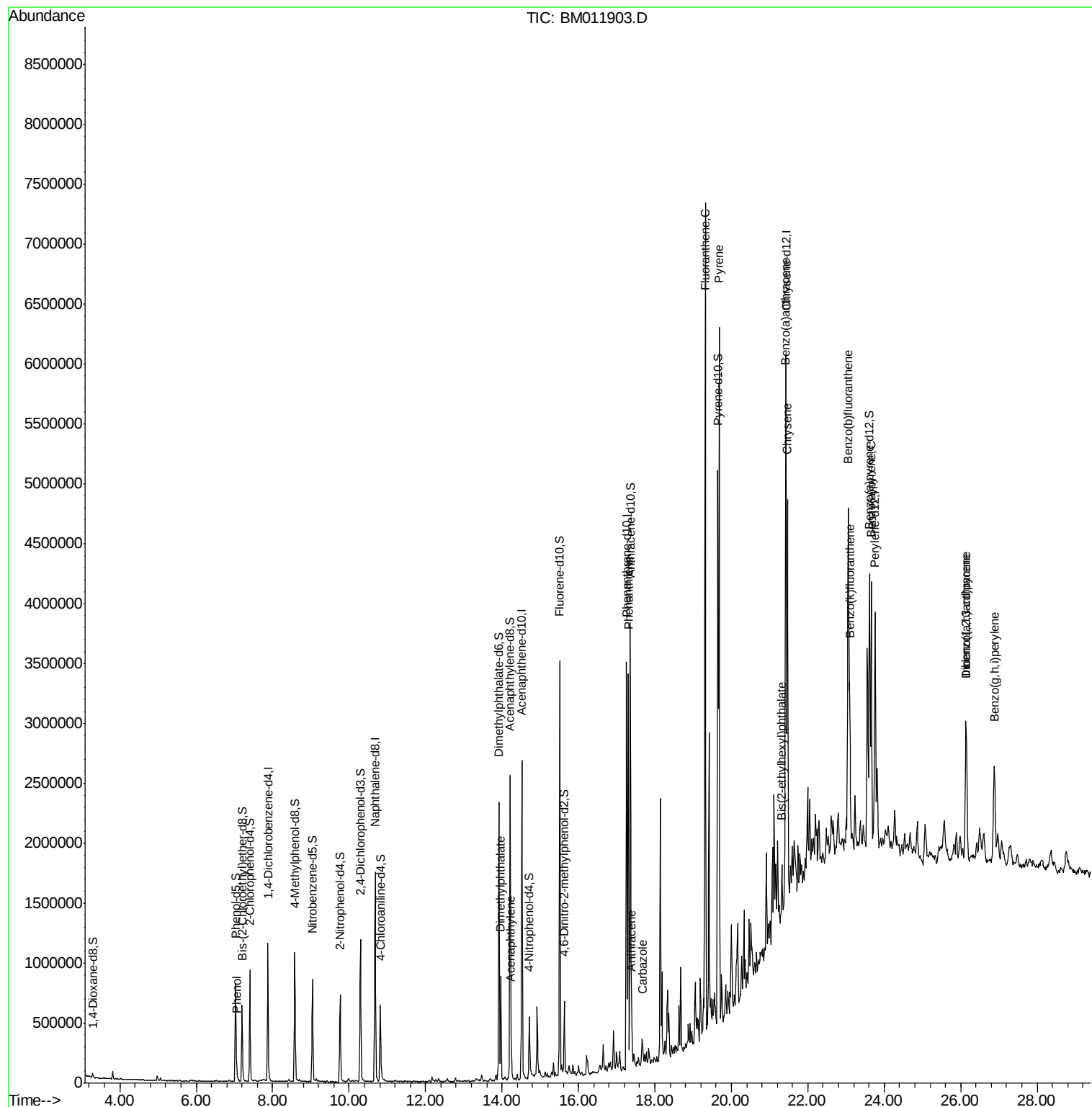
Data Path : Z:\HPCHEM1\BNA M\DATA\BM100417\  
Data File : BM011903.D  
Acq On : 04 Oct 2017 22:54  
Operator : SJ/JU  
Sample : I5414-08  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

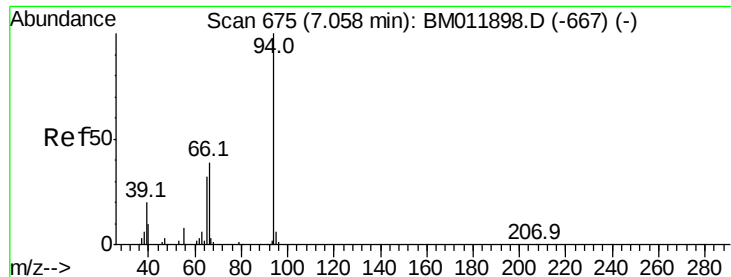
Instrument :  
BNA\_M  
ClientSampleId :  
B0BL3

Quant Time: Oct 05 07:35:21 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Oct 05 07:08:17 2017  
Response via : Initial Calibration

Manual Integrations  
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#6

Phenol

Concen: 1.213 ng/ul

RT: 7.06 min Scan# 675

Delta R.T. -0.00 min

Lab File: BM011903.D

Acq: 04 Oct 2017 22:54

Instrument :

BNA\_M

ClientSampled :

B0BL3

Tot Ion: 94 Resp: 33297

Ion Ratio Lower Upper

94 100

65 28.6 28.2 42.4

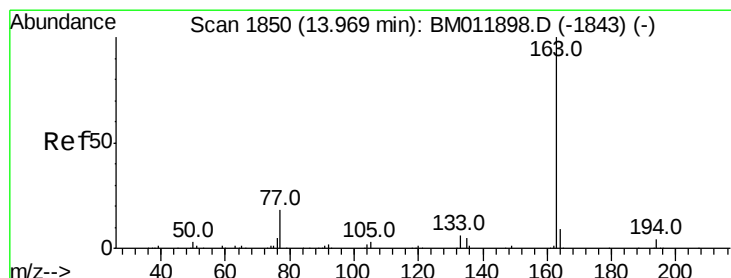
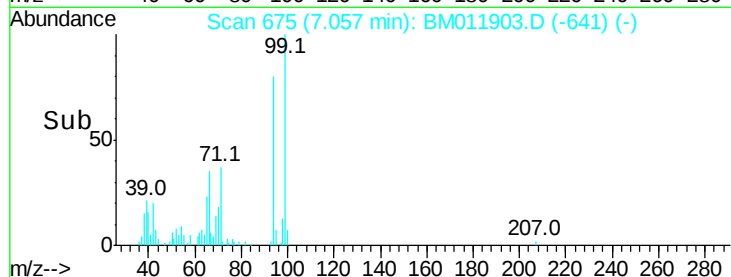
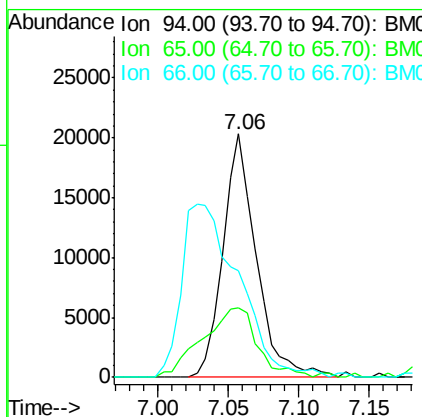
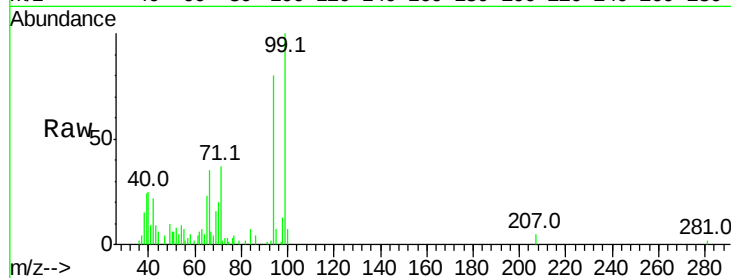
66 43.9 47.2 70.8#

Manual Integrations

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#44

Dimethylphthalate

Concen: 7.348 ng/ul

RT: 13.97 min Scan# 1850

Delta R.T. -0.00 min

Lab File: BM011903.D

Acq: 04 Oct 2017 22:54

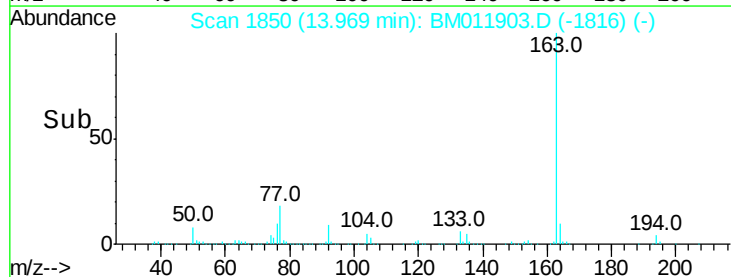
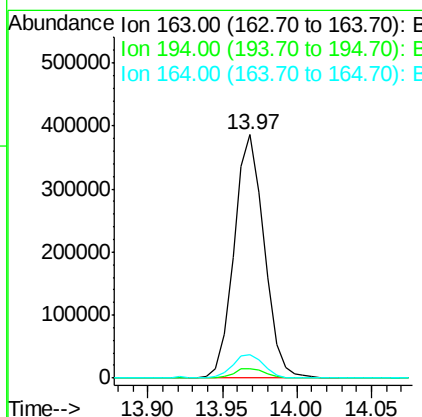
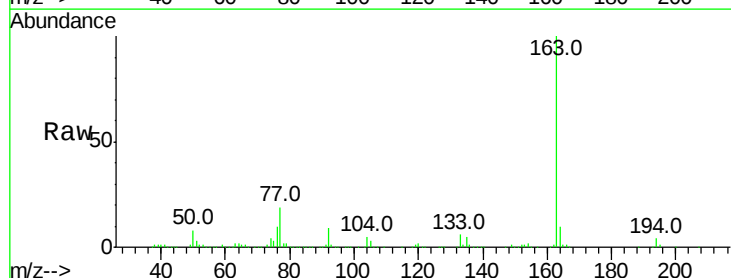
Tgt Ion: 163 Resp: 541135

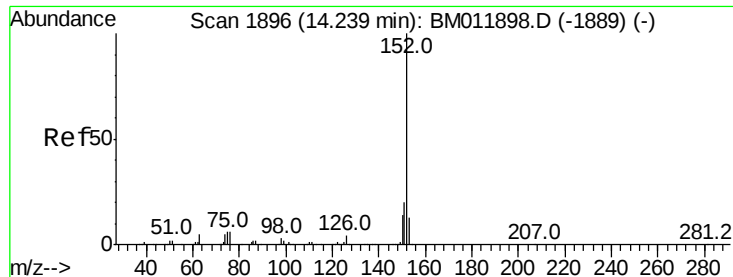
Ion Ratio Lower Upper

163 100

194 4.1 3.5 5.3

164 9.6 8.2 12.4





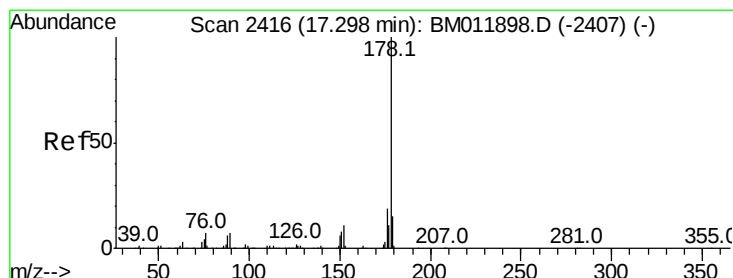
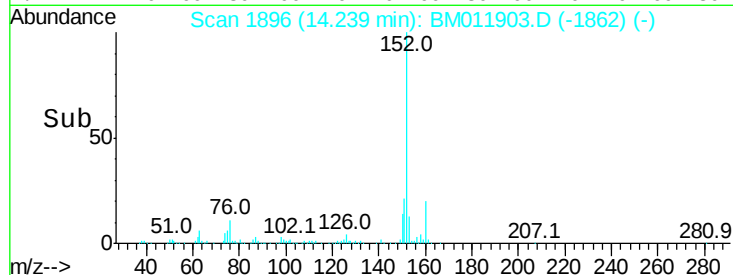
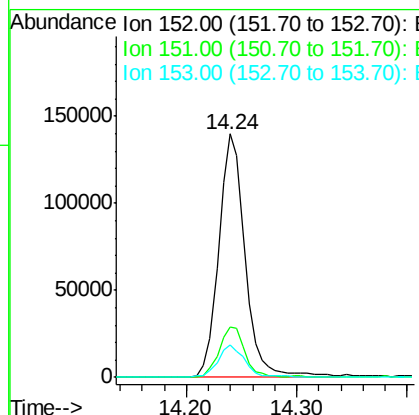
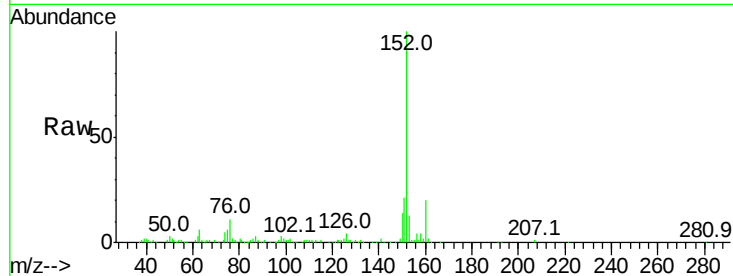
#47  
 Acenaphthylene  
 Concen: 2.665 ng/ul  
 RT: 14.24 min Scan# 1896  
 Delta R.T. -0.00 min  
 Lab File: BM011903.D  
 Acq: 04 Oct 2017 22:54

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B0BL3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 232476 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.7  | 16.3  | 24.5   |
| 153       | 13.1  | 10.2  | 15.4   |

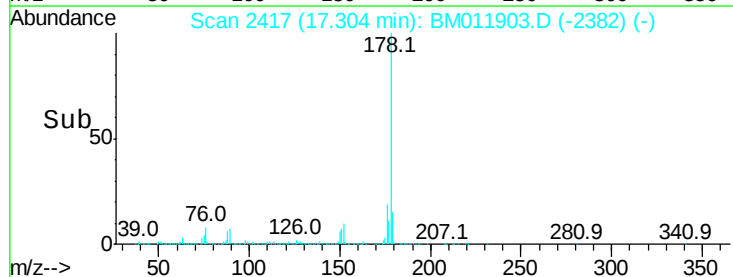
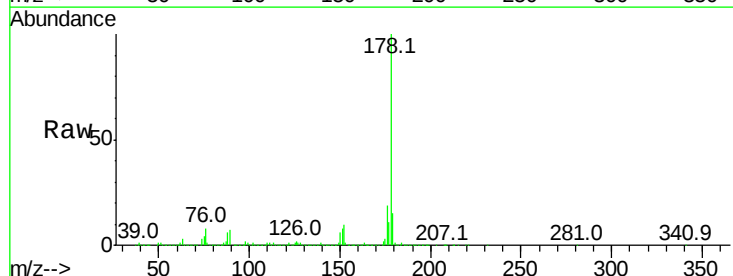
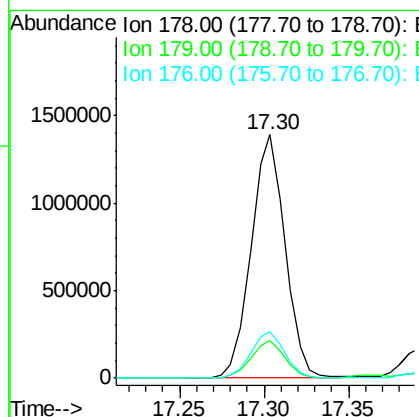
Manual Integrations  
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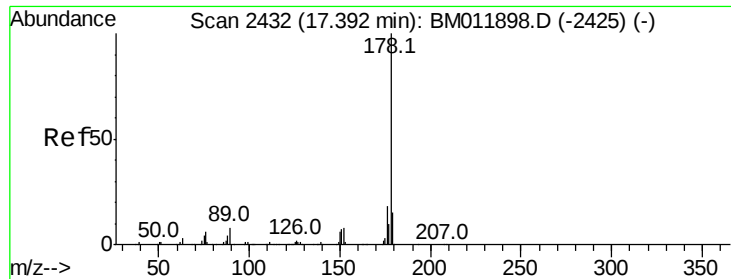
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 10/5/2017 6:17:55 PM



#69  
 Phenanthrene  
 Concen: 17.559 ng/ul  
 RT: 17.30 min Scan# 2417  
 Delta R.T. 0.01 min  
 Lab File: BM011903.D  
 Acq: 04 Oct 2017 22:54

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 1938819 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 179       | 15.4  | 12.6  | 19.0    |
| 176       | 19.0  | 14.9  | 22.3    |





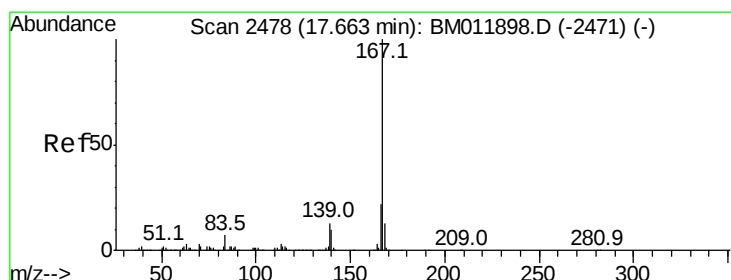
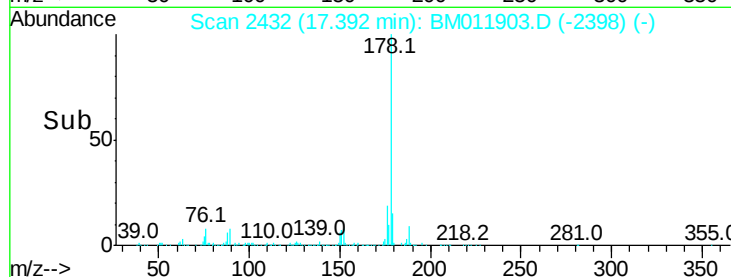
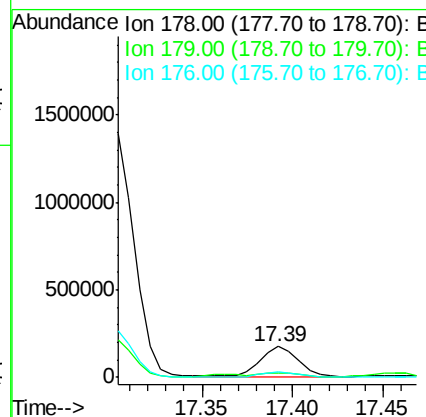
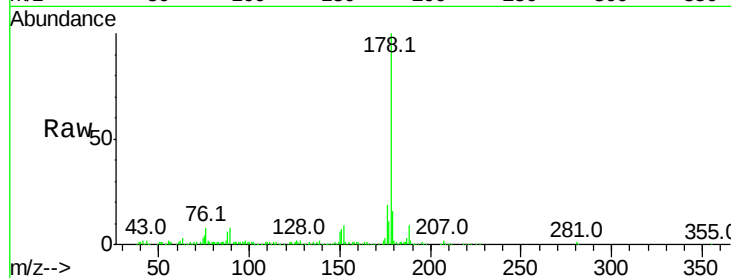
#71  
 Anthracene  
 Concen: 2.206 ng/ul  
 RT: 17.39 min Scan# 2432  
 Delta R.T. -0.00 min  
 Lab File: BM011903.D  
 Acq: 04 Oct 2017 22:54

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B0BL3

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 247838 |       |       |
| 179     | 15.7  |        | 11.7  | 17.5  |
| 176     | 19.3  |        | 14.6  | 21.8  |

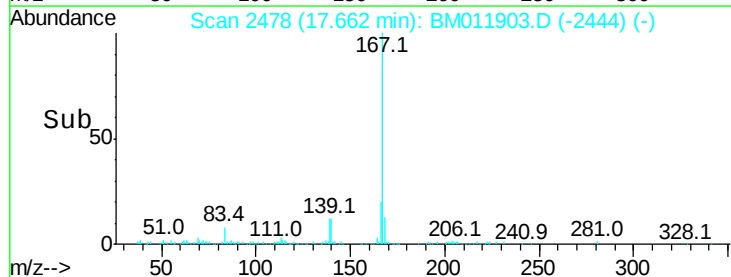
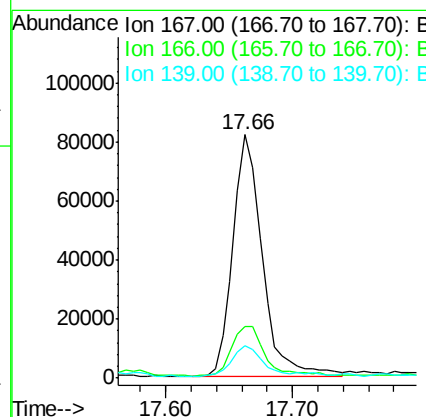
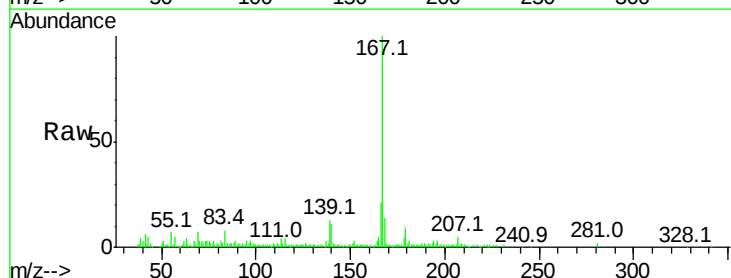
Manual Integrations  
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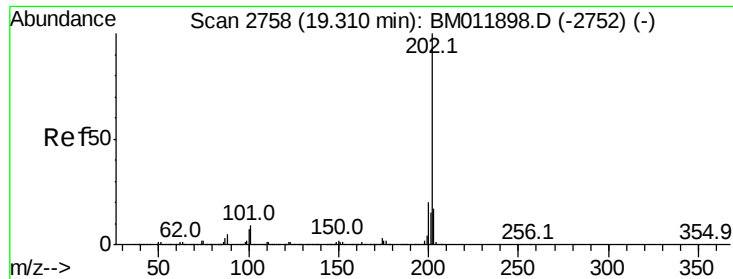
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#72  
 Carbazole  
 Concen: 1.362 ng/ul  
 RT: 17.66 min Scan# 2478  
 Delta R.T. -0.00 min  
 Lab File: BM011903.D  
 Acq: 04 Oct 2017 22:54

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 167     | 100   | 132557 |       |       |
| 166     | 21.4  |        | 17.1  | 25.7  |
| 139     | 13.3  |        | 10.0  | 15.0  |





#74

Fluoranthene

Concen: 29.790 ng/ul

RT: 19.32 min Scan# 2759

Delta R.T. 0.01 min

Lab File: BM011903.D

Acq: 04 Oct 2017 22:54

Instrument :

BNA\_M

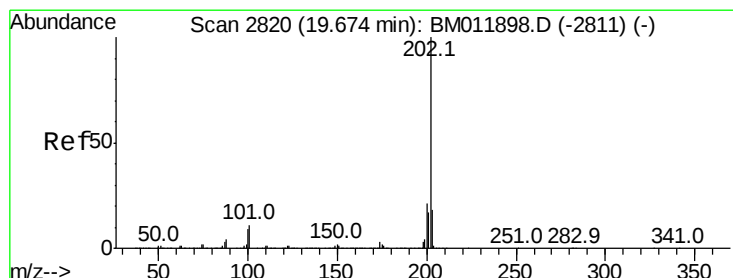
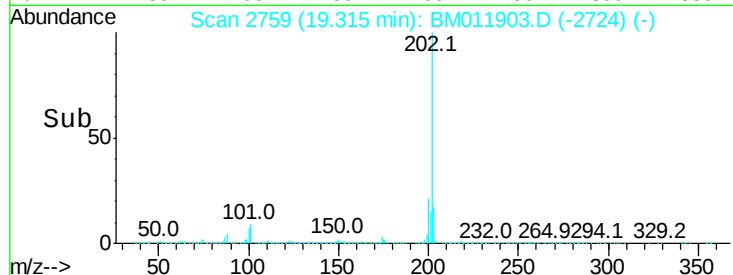
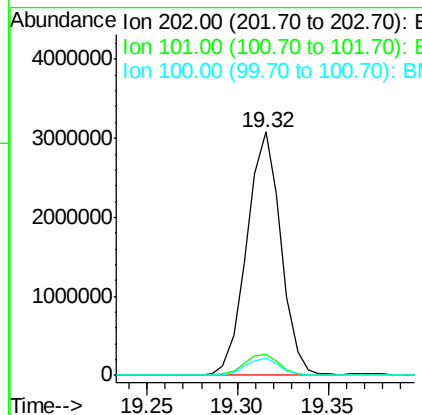
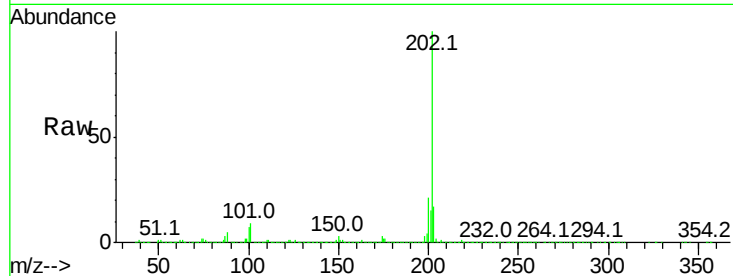
ClientSampleId :

B0BL3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.8   | 4.6   | 7.0#  |
| 100     | 7.0   | 3.4   | 5.2#  |

Manual Integrations  
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#77

Pyrene

Concen: 36.726 ng/ul

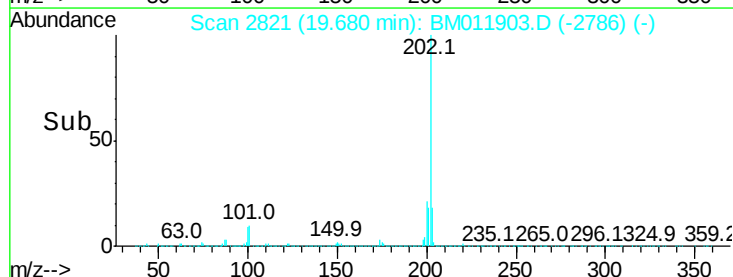
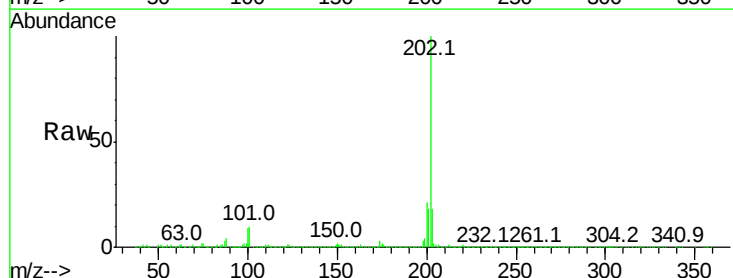
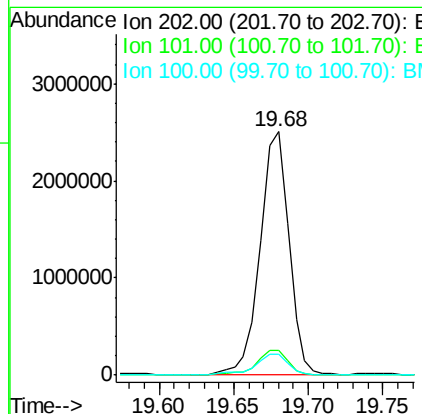
RT: 19.68 min Scan# 2821

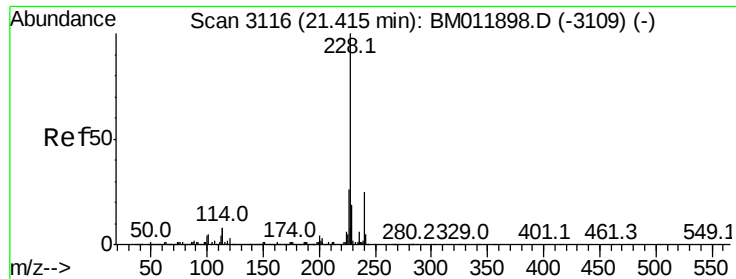
Delta R.T. 0.01 min

Lab File: BM011903.D

Acq: 04 Oct 2017 22:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.2  | 5.1   | 7.7#  |
| 100     | 8.8   | 4.9   | 7.3#  |





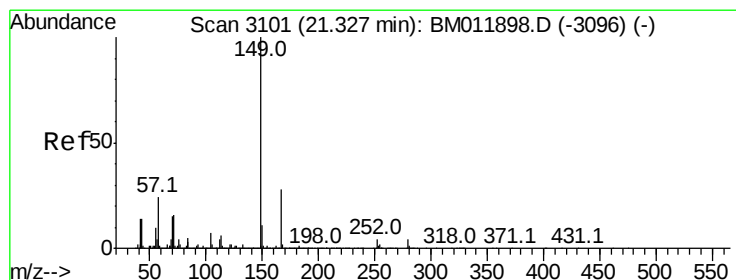
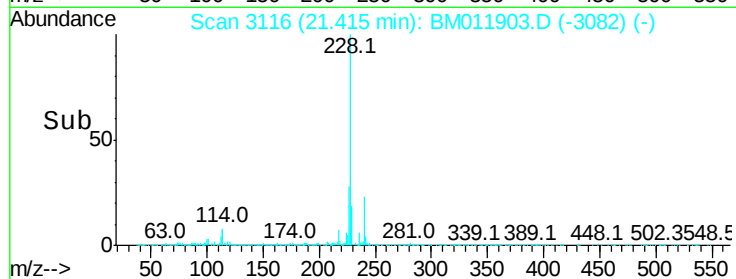
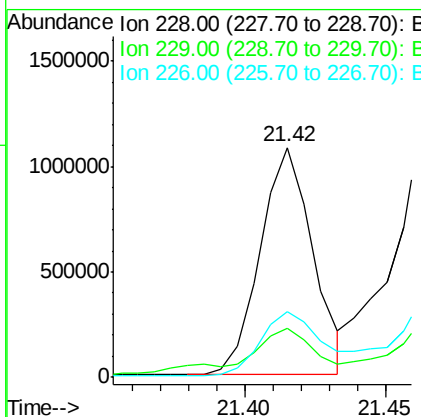
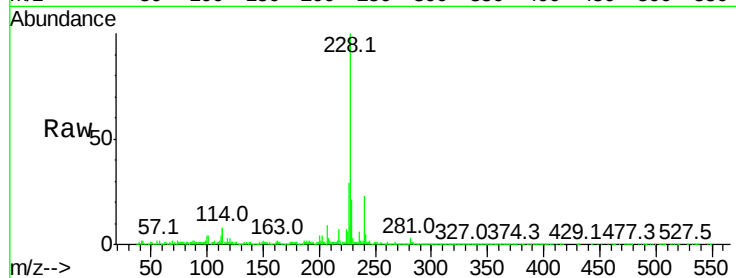
#80  
Benzo(a)anthracene  
Concen: 14.788 ng/ul  
RT: 21.42 min Scan# 3116  
Delta R.T. -0.00 min  
Lab File: BM011903.D  
Acq: 04 Oct 2017 22:54

Instrument :  
BNA\_M  
ClientSampleId :  
B0BL3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.4  | 15.4  | 23.0  |
| 226     | 28.7  | 21.4  | 32.0  |

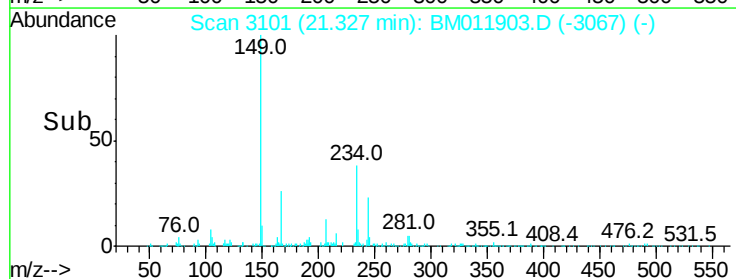
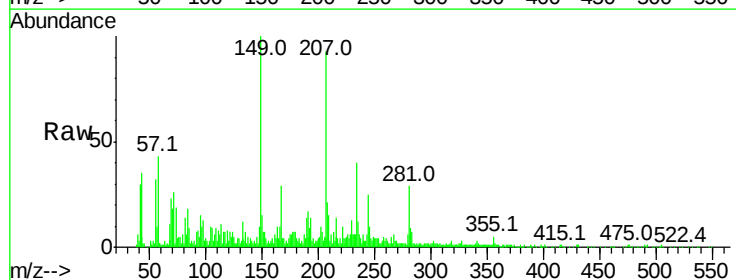
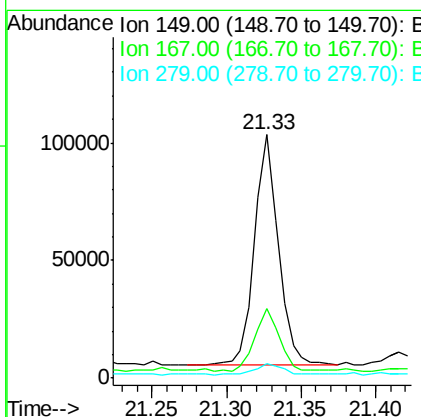
Manual Integrations  
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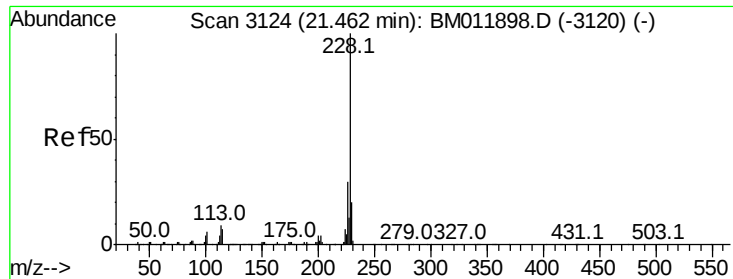
Sohil  
10/5/2017 6:17:55 PM



#81  
Bis(2-ethylhexyl)phthalate  
Concen: 2.048 ng/ul  
RT: 21.33 min Scan# 3101  
Delta R.T. -0.00 min  
Lab File: BM011903.D  
Acq: 04 Oct 2017 22:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.6  | 22.8  | 34.2  |
| 279     | 6.0   | 4.9   | 7.3   |





#82

Chrysene

Concen: 22.243 ng/ul

RT: 21.47 min Scan# 3125

Delta R.T. 0.01 min

Lab File: BM011903.D

Acq: 04 Oct 2017 22:54

Instrument :

BNA\_M

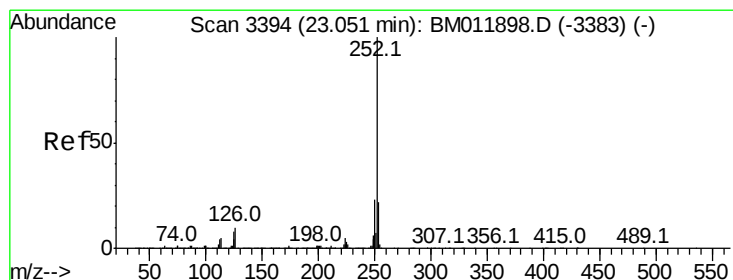
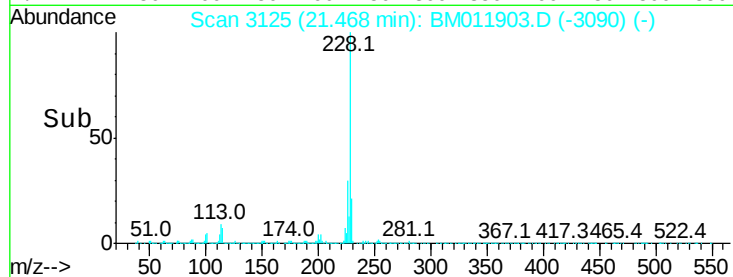
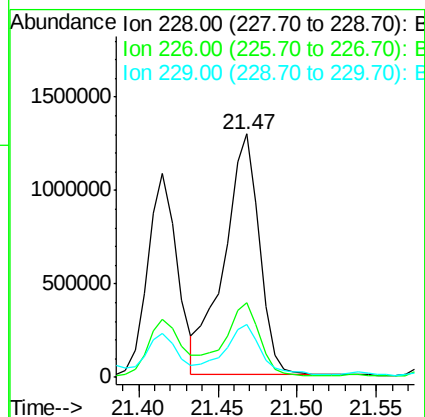
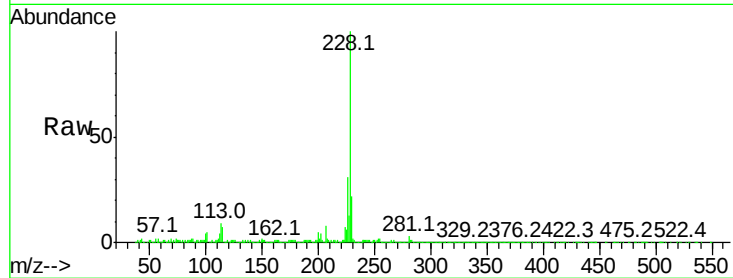
ClientSampleId :

B0BL3

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 228   | Resp: | 1989362 |
| Ion Ratio | Lower | Upper |         |
| 228       | 100   |       |         |
| 226       | 30.7  | 23.4  | 35.2    |
| 229       | 21.7  | 15.5  | 23.3    |

Manual Integrations  
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#85

Benzo(b)fluoranthene

Concen: 26.967 ng/ul

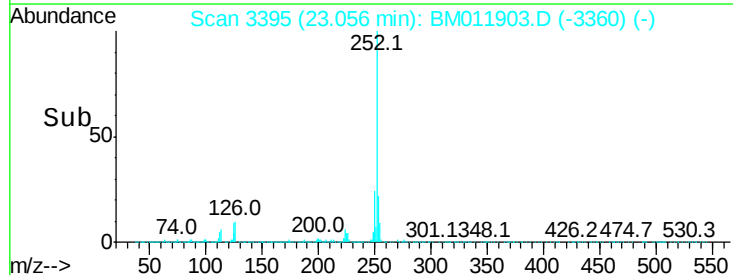
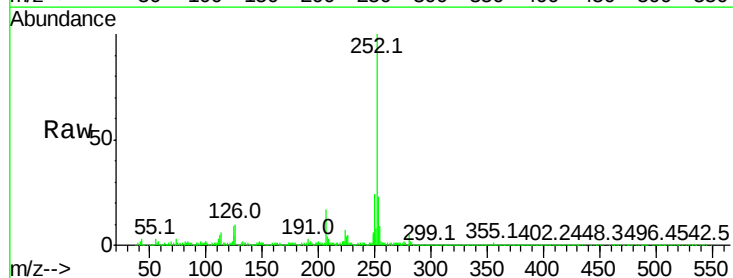
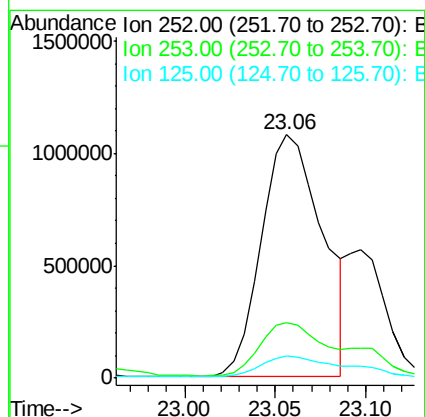
RT: 23.06 min Scan# 3395

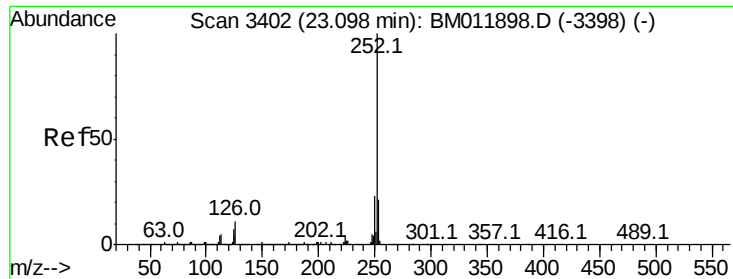
Delta R.T. 0.01 min

Lab File: BM011903.D

Acq: 04 Oct 2017 22:54

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 2533434 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 22.7  | 17.9  | 26.9    |
| 125       | 9.1   | 3.6   | 5.4#    |





#86

Benzo(k)fluoranthene

Concen: 8.889 ng/ul m

RT: 23.10 min Scan# 3402

Delta R.T. -0.00 min

Lab File: BM011903.D

Acq: 04 Oct 2017 22:54

Instrument :

BNA\_M

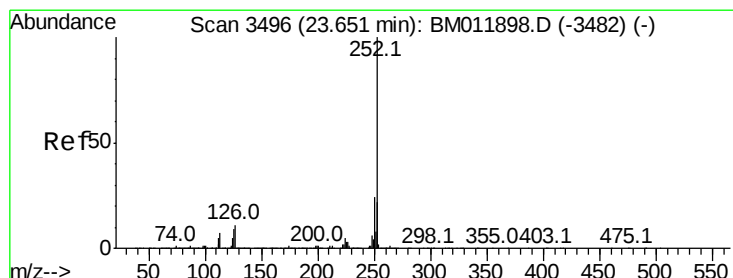
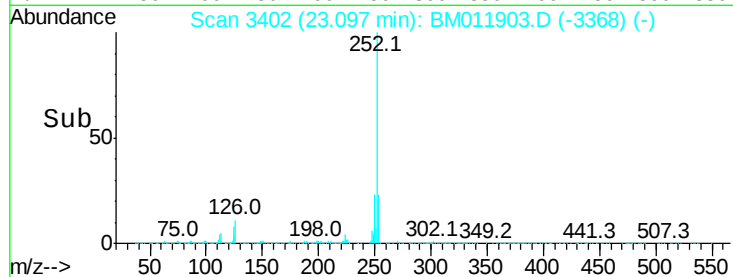
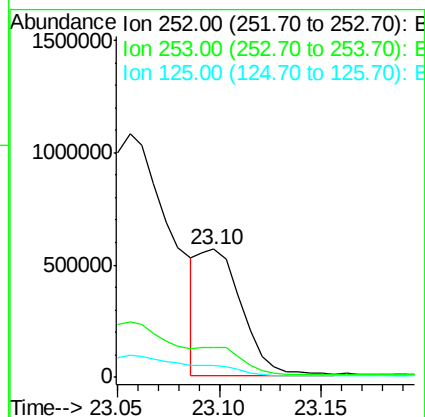
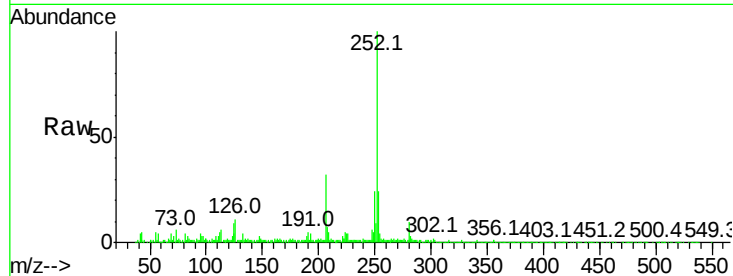
ClientSampled :

B0BL3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 833684 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.8  | 17.1  | 25.7   |
| 125       | 9.0   | 3.4   | 5.2#   |

Manual Integrations  
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#88

Benzo(a)pyrene

Concen: 16.974 ng/ul

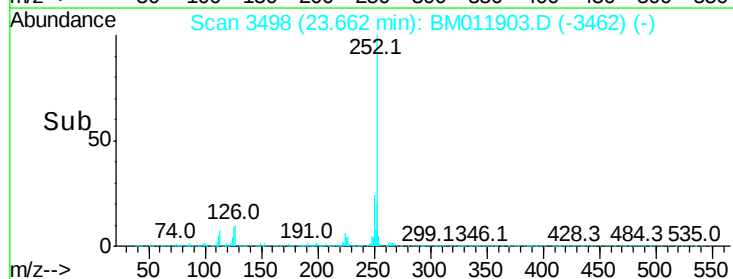
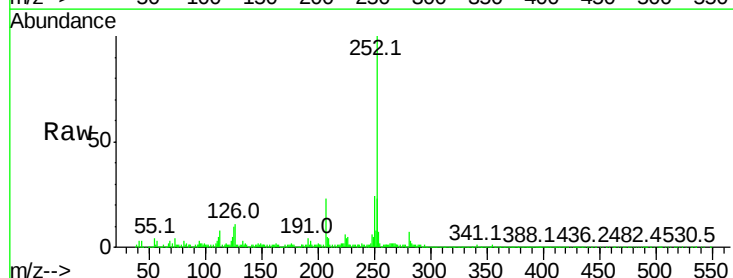
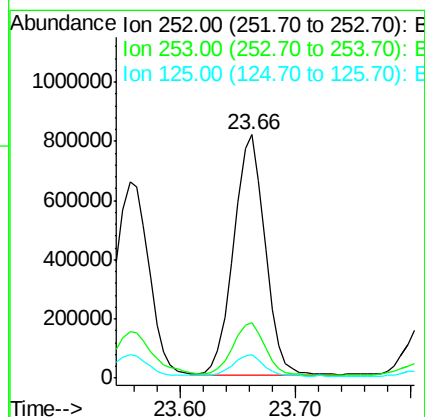
RT: 23.66 min Scan# 3498

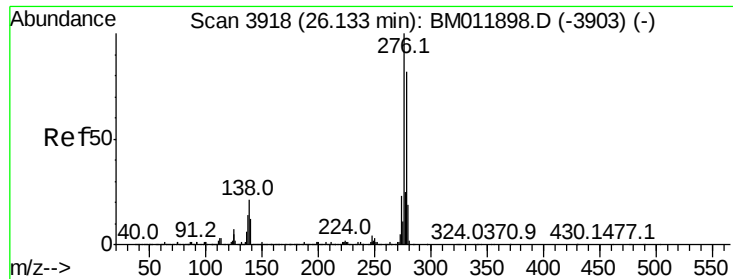
Delta R.T. 0.01 min

Lab File: BM011903.D

Acq: 04 Oct 2017 22:54

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1532209 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 22.7  | 18.2  | 27.2    |
| 125       | 9.6   | 4.0   | 6.0#    |





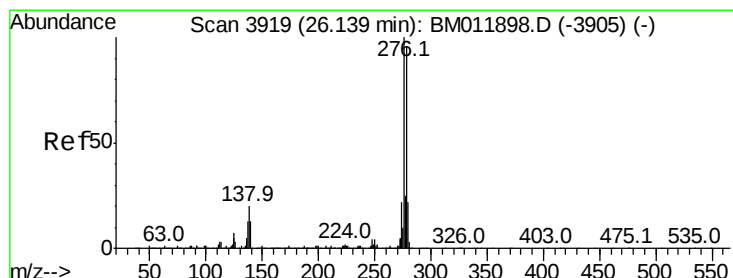
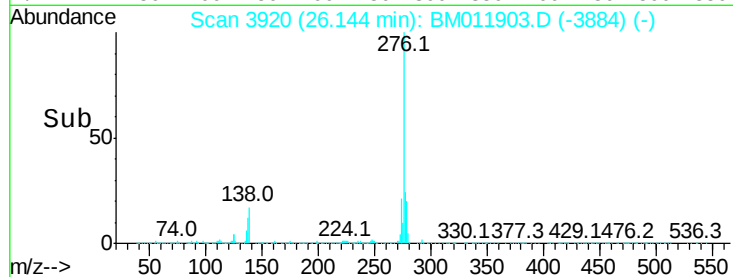
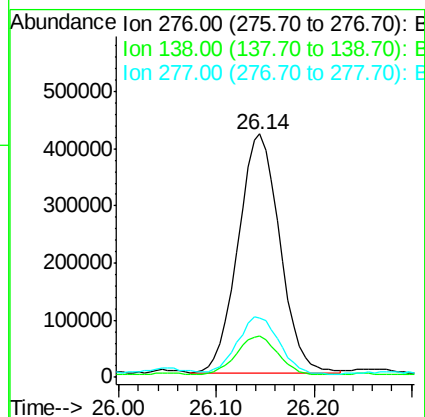
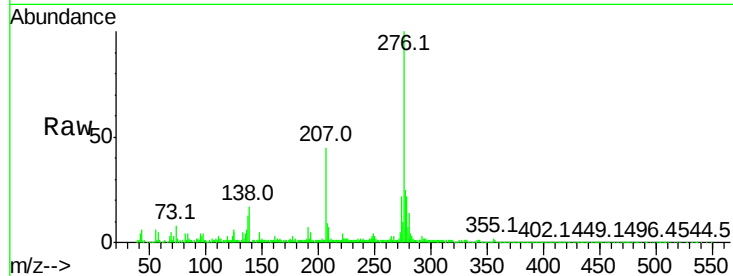
#89  
Indeno(1,2,3-cd)pyrene  
Concen: 12.820 ng/ul  
RT: 26.14 min Scan# 3920  
Delta R.T. 0.01 min  
Lab File: BM011903.D  
Acq: 04 Oct 2017 22:54

Instrument :  
BNA\_M  
ClientSampled :  
B0BL3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.1  | 9.3   | 13.9# |
| 277     | 24.6  | 19.9  | 29.9  |

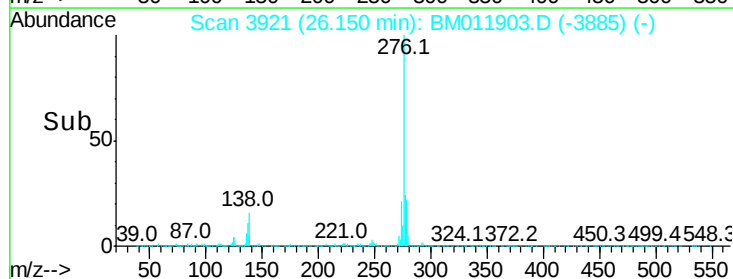
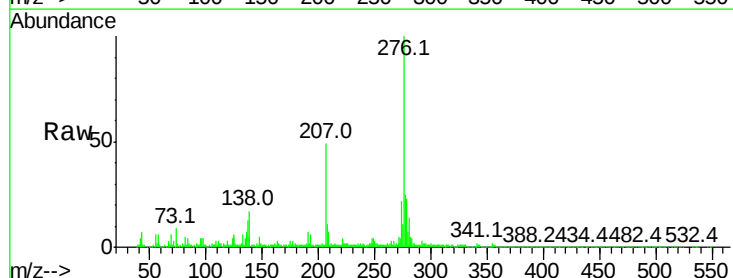
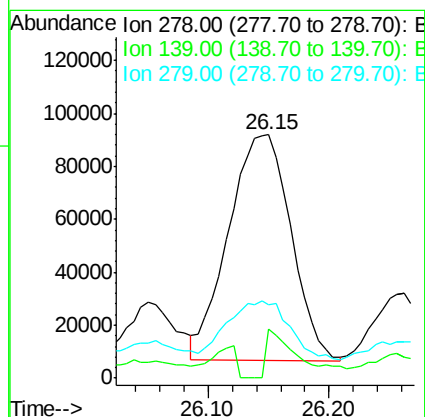
Manual Integrations  
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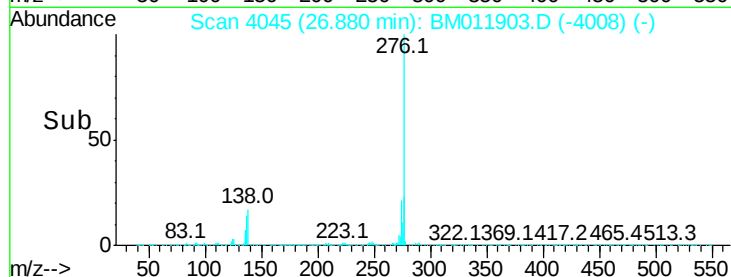
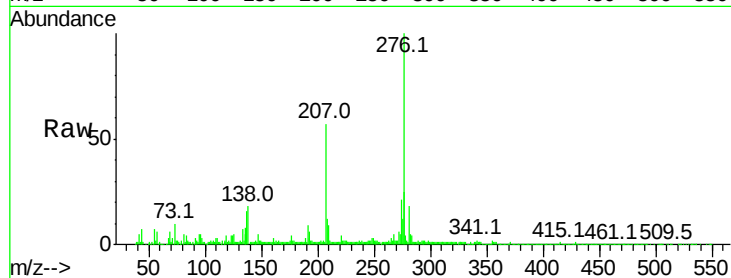
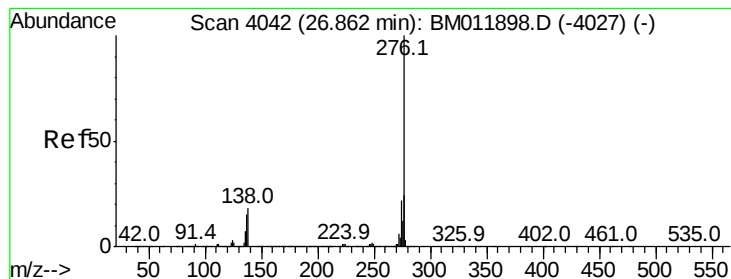
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#90  
Dibenzo(a,h)anthracene  
Concen: 3.845 ng/ul  
RT: 26.15 min Scan# 3921  
Delta R.T. 0.01 min  
Lab File: BM011903.D  
Acq: 04 Oct 2017 22:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.1  | 5.8   | 8.8#  |
| 279     | 30.1  | 18.6  | 27.8# |





#91

Benzo(a,h,i)perylene

Concen: 13.744 ng/ul

RT: 26.88 min Scan# 4045

Delta R.T. 0.02 min

Lab File: BM011903.D

Acq: 04 Oct 2017 22:54

Tot Ion: 276 Resp: 1098225

Ion Ratio Lower Upper

276 100

138 17.7 8.5 12.7#

277 24.6 18.6 28.0

Instrument :

BNA\_M

ClientSampleId :

B0BL3

Manual Integrations

APPROVED

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