

**Instrument :**  
BNA\_M  
**LabSampleId :**  
SSTD02021

Sohil  
12/8/2017 11:15:22 AM

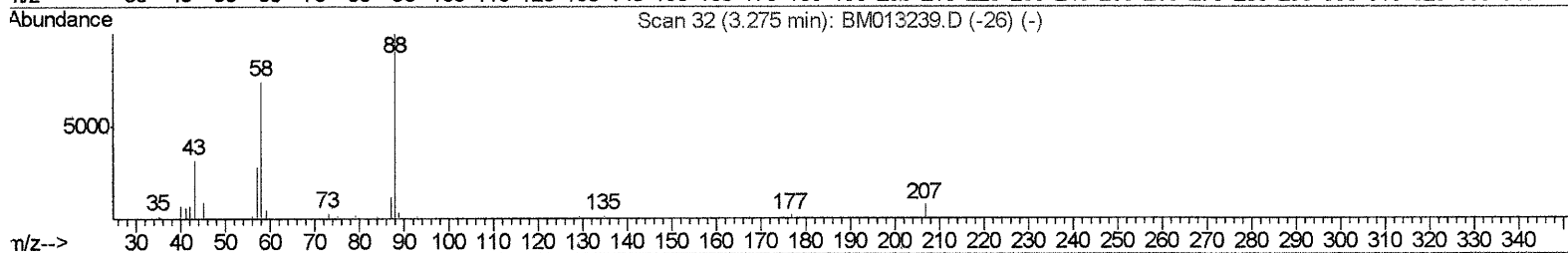
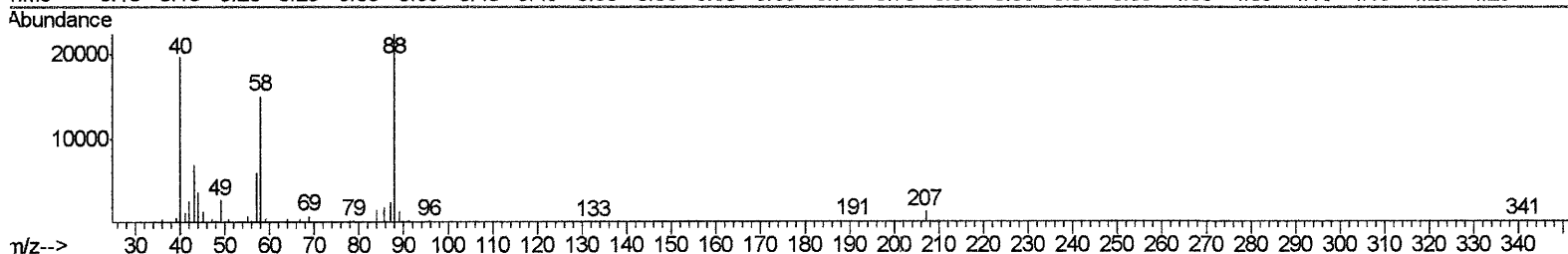
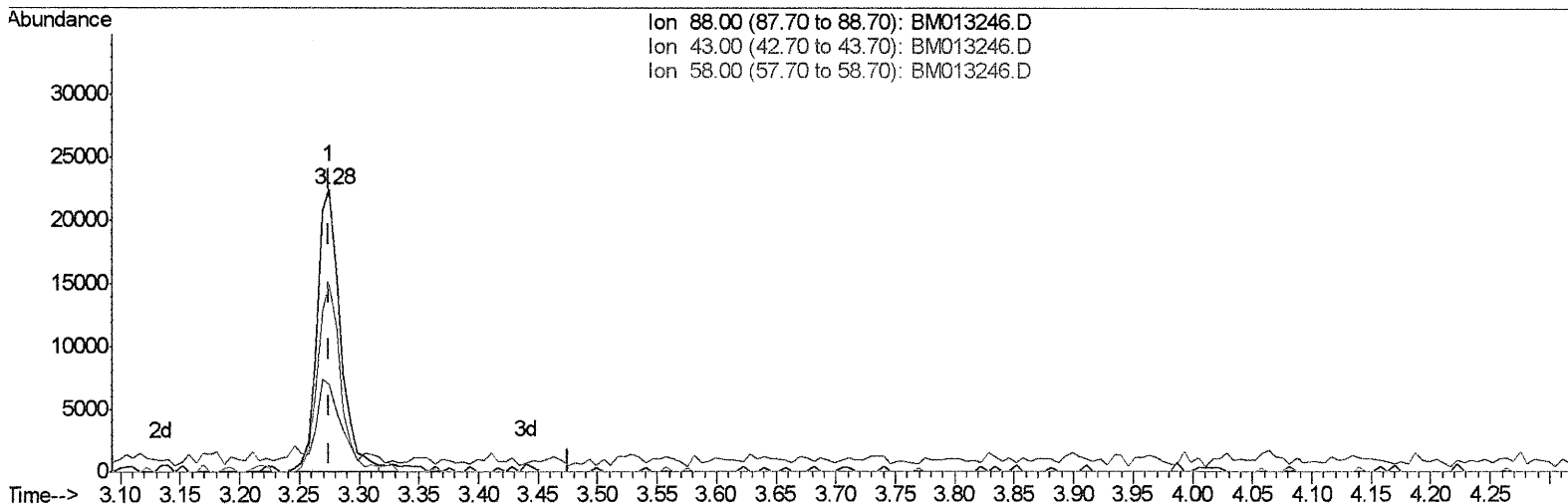
Data Path : Z:\HPCHEM1\BNA M\DATA\BM120717\  
 Data File : BM013246.D  
 Acq On : 07 Dec 2017 16:52  
 Operator : SJ/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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 LabSampleID :  
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Manual Integrations  
 APPROVED

Sohil  
 12/8/2017 11:15:22 AM

Quant Time: Dec 08 03:42:24 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 08 01:54:15 2017  
 Response via : Initial Calibration



TIC: BM013246.D

(2) 1,4-Dioxane

3.275min (-0.000) 6.27ng/uL

response 30686

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 88.00 | 100    | 100    |
| 43.00 | 60.00  | 26.34# |
| 58.00 | 100.00 | 64.89# |
| 0.00  | 0.00   | 0.00   |

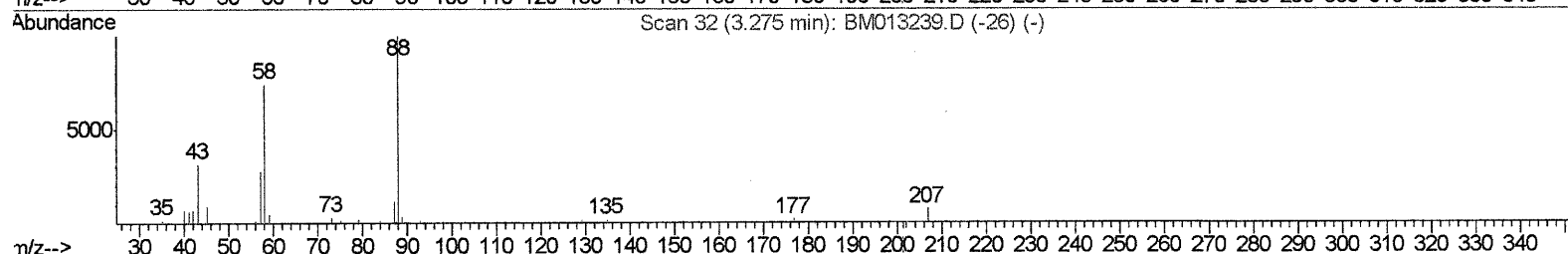
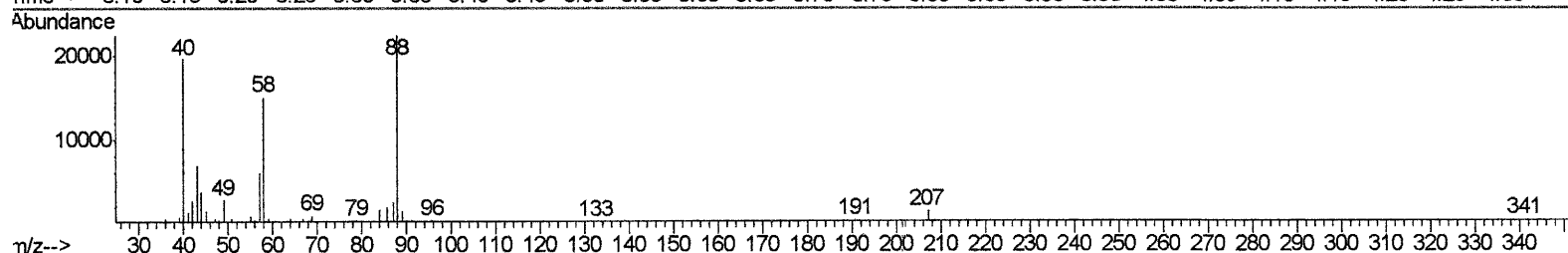
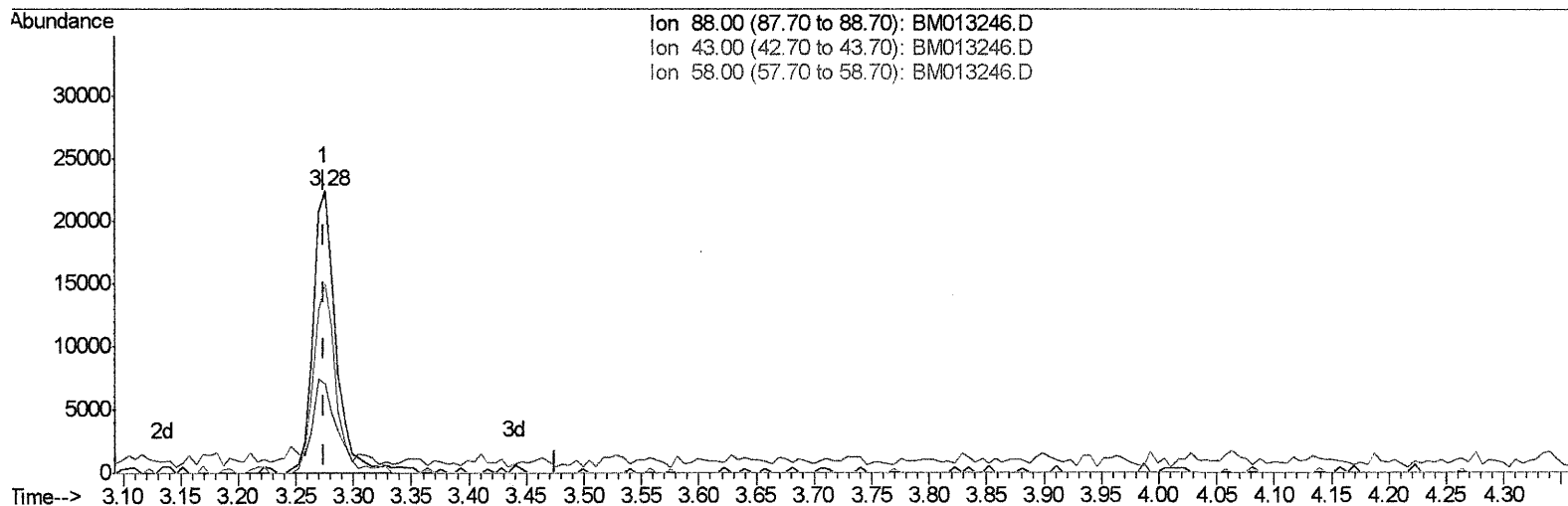
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TIC: BM013246.D

(2) 1,4-Dioxane

3.275min (-0.000) 6.47ng/uL m> SJ 12/11/17

response 31658

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 88.00 | 100    | 100    |
| 43.00 | 60.00  | 25.53# |
| 58.00 | 100.00 | 62.89# |
| 0.00  | 0.00   | 0.00   |

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 SSTD02021

Manual Integrations  
 APPROVED

Sohil  
 12/8/2017 11:15:22 AM

Quant Time: Dec 08 03:42:55 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 08 01:54:15 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 215912   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.48 | 136  | 924654   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.34 | 164  | 544293   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.09 | 188  | 1158787  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.28 | 240  | 768662   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.51 | 264  | 765866   | 20.00 | ng/ul | 0.01     |

#### System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.24  | 96  | 26343   | 6.04  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.88  | 99  | 357432  | 19.13 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.04  | 67  | 202880  | 19.04 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.24  | 132 | 294617  | 20.18 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.41  | 113 | 301796  | 18.91 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.86  | 128 | 151106  | 20.61 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.57  | 143 | 169151  | 21.55 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.11 | 165 | 321731  | 19.89 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.62 | 131 | 374216  | 25.18 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.76 | 166 | 940855  | 19.42 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.03 | 160 | 1192024 | 19.94 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.56 | 143 | 147751  | 17.56 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.34 | 176 | 781864  | 18.77 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.47 | 200 | 116713  | 16.01 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.19 | 188 | 1142394 | 19.68 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.49 | 212 | 993326  | 25.94 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.37 | 264 | 742207  | 19.03 | ng/ul | 0.01 |

#### Target Compounds

|                                |       |     |         | Ovalue |        |
|--------------------------------|-------|-----|---------|--------|--------|
| 2) 1,4-Dioxane                 | 3.28  | 88  | 31658m) | 6.468  | ng/uL  |
| 4) Benzaldehyde                | 6.85  | 77  | 187414  | 20.275 | ng/ul  |
| 6) Phenol                      | 6.91  | 94  | 356755  | 19.319 | ng/ul# |
| 8) Bis(2-Chloroethyl)ether     | 7.13  | 93  | 271289  | 19.214 | ng/ul  |
| 10) 2-Chlorophenol             | 7.27  | 128 | 287037  | 20.053 | ng/ul  |
| 11) 2-Methylphenol             | 8.15  | 108 | 274469  | 19.217 | ng/ul  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.22  | 45  | 297245  | 20.049 | ng/ul# |
| 14) Acetophenone               | 8.52  | 105 | 465332  | 19.173 | ng/ul  |
| 15) N-Nitroso-di-n-propylamine | 8.50  | 70  | 237129  | 19.397 | ng/ul# |
| 16) 4-Methylphenol             | 8.47  | 108 | 296345  | 19.403 | ng/ul  |
| 17) Hexachloroethane           | 8.77  | 117 | 121850  | 19.553 | ng/ul  |
| 20) Nitrobenzene               | 8.90  | 77  | 347801  | 18.829 | ng/ul  |
| 21) Isophorone                 | 9.42  | 82  | 658473  | 20.259 | ng/ul# |
| 23) 2-Nitrophenol              | 9.60  | 139 | 169508  | 20.834 | ng/ul# |
| 24) 2,4-Dimethylphenol         | 9.67  | 107 | 352902  | 19.887 | ng/ul  |
| 25) Bis(2-Chloroethoxy)methane | 9.90  | 93  | 383380  | 20.154 | ng/ul  |
| 27) 2,4-Dichlorophenol         | 10.13 | 162 | 298126  | 19.957 | ng/ul# |
| 28) Naphthalene                | 10.53 | 128 | 933707  | 19.627 | ng/ul  |
| 30) 4-Chloroaniline            | 10.65 | 127 | 357828  | 24.866 | ng/ul  |
| 31) Hexachlorobutadiene        | 10.81 | 225 | 205920  | 19.030 | ng/ul  |
| 32) Caprolactam                | 11.43 | 113 | 96745   | 20.264 | ng/ul# |
| 33) 4-Chloro-3-methylphenol    | 11.78 | 107 | 324032  | 19.774 | ng/ul  |
| 34) 2-Methylnaphthalene        | 12.15 | 142 | 681133  | 19.047 | ng/ul  |

50 12/11/17

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.52 | 216  | 398085   | 20.269 | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 12.50 | 237  | 156344   | 12.094 | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.77 | 196  | 260870   | 21.306 | ng/ul  | 95       |
| 39) 2,4,5-Trichlorophenol      | 12.84 | 196  | 273545   | 21.032 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.17 | 154  | 914470   | 19.879 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.21 | 162  | 717599   | 19.884 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.42 | 65   | 210402   | 19.899 | ng/ul  | 85       |
| 44) Dimethylphthalate          | 13.80 | 163  | 903440   | 19.502 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.93 | 165  | 189620   | 20.069 | ng/ul  | 97       |
| 47) Acenaphthylene             | 14.06 | 152  | 1096281  | 19.820 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.26 | 138  | 182224   | 21.577 | ng/ul  | 86       |
| 49) Acenaphthene               | 14.41 | 153  | 736100   | 19.536 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.47 | 184  | 81125    | 15.516 | ng/ul  | 97       |
| 52) 4-Nitrophenol              | 14.57 | 109  | 139878   | 16.943 | ng/ul# | 79       |
| 53) Dibenzofuran               | 14.74 | 168  | 1044395  | 18.776 | ng/ul  | 98       |
| 54) 2,4-Dinitrotoluene         | 14.72 | 165  | 261142   | 19.000 | ng/ul# | 84       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.97 | 232  | 230968   | 19.368 | ng/ul# | 91       |
| 56) Diethylphthalate           | 15.17 | 149  | 906258   | 19.505 | ng/ul  | 96       |
| 58) Fluorene                   | 15.40 | 166  | 859595   | 18.680 | ng/ul  | 97       |
| 59) 4-Chlorophenyl-phenylether | 15.39 | 204  | 463811   | 18.570 | ng/ul  | 99       |
| 60) 4-Nitroaniline             | 15.42 | 138  | 184961   | 18.563 | ng/ul  | 98       |
| 63) 4,6-Dinitro-2-methylphenol | 15.49 | 198  | 114548   | 15.725 | ng/ul  | 98       |
| 64) N-Nitrosodiphenylamine     | 15.61 | 169  | 735335   | 21.542 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.29 | 248  | 281840   | 20.690 | ng/ul  | 96       |
| 66) Hexachlorobenzene          | 16.40 | 284  | 300908   | 20.031 | ng/ul# | 92       |
| 67) Atrazine                   | 16.56 | 200  | 277072   | 21.991 | ng/ul  | 92       |
| 68) Pentachlorophenol          | 16.74 | 266  | 161582   | 18.597 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.13 | 178  | 1261601  | 19.164 | ng/ul  | 98       |
| 71) Anthracene                 | 17.23 | 178  | 1296391  | 19.265 | ng/ul  | 99       |
| 72) Carbazole                  | 17.50 | 167  | 1042633  | 18.014 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.06 | 149  | 1403539  | 20.772 | ng/ul  | 98       |
| 74) Fluoranthene               | 19.15 | 202  | 1278457  | 15.847 | ng/ul# | 91       |
| 77) Pvrene                     | 19.52 | 202  | 1208604  | 25.881 | ng/ul# | 90       |
| 78) Butylbenzylphthalate       | 20.42 | 149  | 472984   | 25.923 | ng/ul  | 92       |
| 79) 3,3'-Dichlorobenzidine     | 21.20 | 252  | 294726   | 18.240 | ng/ul  | 97       |
| 80) Benzo(a)anthracene         | 21.27 | 228  | 947219   | 19.422 | ng/ul  | 100      |
| 81) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 631540   | 22.963 | ng/ul# | 97       |
| 82) Chrysene                   | 21.32 | 228  | 878051   | 19.406 | ng/ul  | 98       |
| 84) Di-n-octyl phthalate       | 22.08 | 149  | 973270   | 17.871 | ng/ul# | 95       |
| 85) Benzo(b)fluoranthene       | 22.84 | 252  | 928528   | 17.985 | ng/ul# | 99       |
| 86) Benzo(k)fluoranthene       | 22.89 | 252  | 850583   | 17.507 | ng/ul# | 97       |
| 88) Benzo(a)pyrene             | 23.42 | 252  | 871650   | 18.795 | ng/ul# | 97       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.76 | 276  | 1084770  | 23.573 | ng/ul# | 96       |
| 90) Dibenzo(a,h)anthracene     | 25.77 | 278  | 913622   | 23.317 | ng/ul# | 97       |
| 91) Benzo(g,h,i)perylene       | 26.45 | 276  | 881862   | 24.295 | ng/ul# | 96       |

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