

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG090718\  
 Data File : BG036595.D  
 Acq On : 7 Sep 2018 13:46  
 Operator : JU/SJ  
 Sample : PB112677BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB112677BS

Quant Time: Sep 07 16:53:53 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 31 13:03:20 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.06  | 152  | 54164    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.86 | 136  | 244325   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.68 | 164  | 164810   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.43 | 188  | 437549   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.69 | 240  | 437366   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 24.89 | 264  | 448607   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.62  | 112 | 384654  | 112.65 | ng | 0.00 |
| 7) Phenol-d6             | 7.22  | 99  | 527810  | 107.96 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.22  | 82  | 313162  | 69.54  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.17 | 330 | 235680  | 119.84 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 13.30 | 172 | 764577  | 66.24  | ng | 0.00 |
| 78) Terphenyl-d14        | 20.03 | 244 | 1329911 | 71.07  | ng | 0.00 |

## Target Compounds

|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.53  | 88  | 51734  | 32.466 | ng | 94     |
| 3) Pyridine                    | 3.92  | 79  | 148953 | 33.301 | ng | 96     |
| 4) n-Nitrosodimethylamine      | 3.84  | 42  | 73735  | 37.011 | ng | 90     |
| 6) Aniline                     | 7.38  | 93  | 190012 | 30.621 | ng | 98     |
| 8) 2-Chlorophenol              | 7.62  | 128 | 154282 | 41.666 | ng | 97     |
| 9) Benzaldehyde                | 7.19  | 77  | 92236  | 27.398 | ng | 97     |
| 10) Phenol                     | 7.24  | 94  | 219445 | 42.894 | ng | 99     |
| 11) bis(2-Chloroethyl)ether    | 7.47  | 93  | 149515 | 36.864 | ng | 98     |
| 12) 1,3-Dichlorobenzene        | 7.94  | 146 | 158012 | 37.372 | ng | 97     |
| 13) 1,4-Dichlorobenzene        | 8.09  | 146 | 158564 | 37.145 | ng | 99     |
| 14) 1,2-Dichlorobenzene        | 8.41  | 146 | 154498 | 37.897 | ng | 97     |
| 15) Benzyl Alcohol             | 8.29  | 79  | 154069 | 39.094 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.58  | 45  | 273266 | 33.409 | ng | 97     |
| 17) 2-Methylphenol             | 8.49  | 107 | 142055 | 41.817 | ng | 98     |
| 18) Hexachloroethane           | 9.14  | 117 | 57742  | 37.727 | ng | 90     |
| 19) n-Nitroso-di-n-propylamine | 8.86  | 70  | 126097 | 34.513 | ng | 92     |
| 20) 3+4-Methylphenols          | 8.82  | 107 | 201361 | 42.457 | ng | 100    |
| 22) Acetophenone               | 8.88  | 105 | 241247 | 37.602 | ng | # 98   |
| 24) Nitrobenzene               | 9.26  | 77  | 190415 | 39.213 | ng | 96     |
| 25) Isophorone                 | 9.78  | 82  | 353946 | 39.566 | ng | 99     |
| 26) 2-Nitrophenol              | 9.97  | 139 | 84584  | 43.958 | ng | 95     |
| 27) 2,4-Dimethylphenol         | 10.02 | 122 | 158266 | 44.426 | ng | 97     |
| 28) bis(2-Chloroethoxy)methane | 10.26 | 93  | 205022 | 37.343 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 10.51 | 162 | 175108 | 44.850 | ng | 95     |
| 30) 1,2,4-Trichlorobenzene     | 10.72 | 180 | 172160 | 37.693 | ng | 99     |
| 31) Naphthalene                | 10.91 | 128 | 489134 | 40.048 | ng | 100    |
| 32) Benzoic acid               | 10.15 | 122 | 92403  | 36.200 | ng | 93     |
| 33) 4-Chloroaniline            | 11.02 | 127 | 143527 | 25.645 | ng | 99     |
| 34) Hexachlorobutadiene        | 11.20 | 225 | 114900 | 37.442 | ng | 99     |
| 35) Caprolactam                | 11.79 | 113 | 62845  | 40.407 | ng | 98     |
| 36) 4-Chloro-3-methylphenol    | 12.13 | 107 | 189332 | 41.734 | ng | 99     |
| 37) 2-Methylnaphthalene        | 12.51 | 142 | 382780 | 42.832 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.88 | 216 | 221149 | 37.917 | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 12.86 | 237 | 258019 | 85.025 | ng | 97     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.11 | 196  | 151746   | 42.711 | ng    | 97       |
| 43) 2,4,5-Trichlorophenol      | 13.18 | 196  | 166442   | 43.922 | ng    | 98       |
| 45) 1,1'-Biphenyl              | 13.51 | 154  | 500577   | 36.590 | ng    | 98       |
| 46) 2-Chloronaphthalene        | 13.56 | 162  | 384544   | 36.820 | ng    | 99       |
| 47) 2-Nitroaniline             | 13.75 | 65   | 137247   | 41.849 | ng    | 93       |
| 48) Acenaphthylene             | 14.40 | 152  | 658495   | 40.343 | ng    | 99       |
| 49) Dimethylphthalate          | 14.13 | 163  | 525455   | 39.045 | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 14.25 | 165  | 117796   | 42.538 | ng    | 93       |
| 51) Acenaphthene               | 14.75 | 154  | 425779   | 40.731 | ng    | 98       |
| 52) 3-Nitroaniline             | 14.58 | 138  | 103484   | 34.677 | ng    | 97       |
| 53) 2,4-Dinitrophenol          | 14.78 | 184  | 83602    | 79.703 | ng    | 93       |
| 54) Dibenzofuran               | 15.08 | 168  | 634589   | 38.749 | ng    | 98       |
| 55) 4-Nitrophenol              | 14.88 | 139  | 186699   | 76.517 | ng    | 97       |
| 56) 2,4-Dinitrotoluene         | 15.04 | 165  | 169251   | 46.895 | ng    | 90       |
| 57) Fluorene                   | 15.73 | 166  | 509363   | 41.605 | ng    | 97       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.30 | 232  | 166395   | 46.735 | ng    | 96       |
| 59) Diethylphthalate           | 15.49 | 149  | 523321   | 38.586 | ng    | 99       |
| 60) 4-Chlorophenyl-phenylether | 15.72 | 204  | 291881   | 38.609 | ng    | 99       |
| 61) 4-Nitroaniline             | 15.74 | 138  | 131262   | 42.034 | ng    | 96       |
| 62) Azobenzene                 | 16.01 | 77   | 508627   | 36.859 | ng    | 97       |
| 64) 4,6-Dinitro-2-methylphenol | 15.80 | 198  | 80965    | 42.124 | ng    | 94       |
| 65) n-Nitrosodiphenylamine     | 15.93 | 169  | 474682   | 36.511 | ng    | 98       |
| 66) 4-Bromophenyl-phenylether  | 16.62 | 248  | 194652   | 37.997 | ng    | 95       |
| 67) Hexachlorobenzene          | 16.73 | 284  | 198075   | 37.813 | ng    | 99       |
| 68) Atrazine                   | 16.87 | 200  | 196450   | 40.257 | ng    | 99       |
| 69) Pentachlorophenol          | 17.07 | 266  | 226773   | 63.698 | ng    | 98       |
| 70) Phenanthrene               | 17.47 | 178  | 874454   | 39.331 | ng    | 98       |
| 71) Anthracene                 | 17.56 | 178  | 888959   | 40.111 | ng    | 99       |
| 72) Carbazole                  | 17.83 | 167  | 783606   | 35.404 | ng    | 99       |
| 73) Di-n-butylphthalate        | 18.38 | 149  | 897258   | 36.404 | ng    | 99       |
| 74) Fluoranthene               | 19.47 | 202  | 1080927  | 39.877 | ng    | 100      |
| 76) Benzidine                  | 19.65 | 184  | 477025   | 34.186 | ng    | 100      |
| 77) Pyrene                     | 19.83 | 202  | 1055983  | 39.263 | ng    | 99       |
| 79) Butylbenzylphthalate       | 20.72 | 149  | 414154   | 38.693 | ng    | 93       |
| 80) Benzo(a)anthracene         | 21.67 | 228  | 1058157  | 39.936 | ng    | 100      |
| 81) 3,3'-Dichlorobenzidine     | 21.59 | 252  | 286004   | 27.084 | ng    | 95       |
| 82) Chrysene                   | 21.73 | 228  | 989309   | 39.391 | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.58 | 149  | 561011   | 37.455 | ng    | 97       |
| 84) Di-n-octyl phthalate       | 22.79 | 149  | 952889   | 38.088 | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 28.55 | 276  | 1068329  | 36.623 | ng    | # 95     |
| 87) Benzo(b)fluoranthene       | 23.88 | 252  | 1045429  | 41.966 | ng    | 98       |
| 88) Benzo(k)fluoranthene       | 23.95 | 252  | 1008420  | 41.436 | ng    | 98       |
| 89) Benzo(a)pyrene             | 24.75 | 252  | 1015194  | 42.409 | ng    | 98       |
| 90) Dibenzo(a,h)anthracene     | 28.61 | 278  | 868602   | 37.586 | ng    | 98       |
| 91) Benzo(g,h,i)perylene       | 29.70 | 276  | 883017   | 38.023 | ng    | 96       |

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

