

Data Path : Z:\HPCHEM1\BNA G\DATA\BG022718\  
 Data File : BG032856.D  
 Acq On : 27 Feb 2018 16:02  
 Operator : SJ/JU  
 Sample : PB106878BS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB106878BS

Manual Integrations  
 APPROVED

Sohil  
 2/28/2018 1:01:32 PM

Quant Time: Feb 28 02:59:15 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 26 17:50:45 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.93  | 152  | 70409    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.81 | 136  | 310346   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.54 | 164  | 176387   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.26 | 188  | 396086   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.63 | 240  | 372201   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.44 | 264  | 406290   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 6.34  | 112 | 408272  | 92.77 | ng | 0.00 |
| 7) Phenol-d6             | 8.03  | 99  | 539082  | 87.88 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 10.13 | 82  | 431985  | 95.24 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 17.01 | 330 | 169722  | 91.51 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 14.17 | 172 | 973089  | 79.57 | ng | 0.00 |
| 78) Terphenyl-d14        | 20.79 | 244 | 1313358 | 79.28 | ng | 0.00 |

## Target Compounds

|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.97  | 88  | 72267  | 37.836 | ng | 88     |
| 3) Pyridine                    | 4.43  | 79  | 200669 | 38.118 | ng | 94     |
| 4) n-Nitrosodimethylamine      | 4.33  | 42  | 98651  | 46.740 | ng | # 94   |
| 6) Aniline                     | 8.21  | 93  | 134809 | 16.235 | ng | 96     |
| 8) 2-Chlorophenol              | 8.47  | 128 | 215576 | 44.752 | ng | 92     |
| 9) Benzaldehyde                | 8.03  | 77  | 88258  | 24.964 | ng | 90     |
| 10) Phenol                     | 8.05  | 94  | 278585 | 45.051 | ng | 91     |
| 11) bis(2-Chloroethyl)ether    | 8.31  | 93  | 195328 | 38.629 | ng | 92     |
| 12) 1,3-Dichlorobenzene        | 8.81  | 146 | 215108 | 38.126 | ng | 96     |
| 13) 1,4-Dichlorobenzene        | 8.97  | 146 | 216903 | 38.192 | ng | 98     |
| 14) 1,2-Dichlorobenzene        | 9.30  | 146 | 205442 | 37.749 | ng | 97     |
| 15) Benzyl Alcohol             | 9.16  | 79  | 181852 | 40.325 | ng | 91     |
| 16) 2,2'-oxybis(1-Chloropropan | 9.45  | 45  | 314729 | 36.207 | ng | 97     |
| 17) 2-Methylphenol             | 9.36  | 107 | 183303 | 40.199 | ng | 95     |
| 18) Hexachloroethane           | 10.06 | 117 | 78433  | 40.562 | ng | # 85   |
| 19) n-Nitroso-di-n-propylamine | 9.74  | 70  | 156725 | 36.189 | ng | # 96   |
| 20) 3+4-Methylphenols          | 9.69  | 107 | 252975 | 39.900 | ng | 94     |
| 22) Acetophenone               | 9.77  | 105 | 297134 | 37.911 | ng | # 94   |
| 24) Nitrobenzene               | 10.17 | 77  | 218893 | 44.729 | ng | 90     |
| 25) Isophorone                 | 10.70 | 82  | 428941 | 39.378 | ng | 96     |
| 26) 2-Nitrophenol              | 10.90 | 139 | 105866 | 56.808 | ng | # 86   |
| 27) 2,4-Dimethylphenol         | 10.93 | 122 | 229280 | 48.453 | ng | 89     |
| 28) bis(2-Chloroethoxy)methane | 11.17 | 93  | 266784 | 42.041 | ng | 95     |
| 29) 2,4-Dichlorophenol         | 11.44 | 162 | 195405 | 45.498 | ng | 95     |
| 30) 1,2,4-Trichlorobenzene     | 11.67 | 180 | 189404 | 37.622 | ng | 98     |
| 31) Naphthalene                | 11.87 | 128 | 629884 | 38.842 | ng | 99     |
| 32) Benzoic acid               | 11.01 | 122 | 85633  | 33.995 | ng | # 78   |
| 33) 4-Chloroaniline            | 11.95 | 127 | 121455 | 16.750 | ng | 95     |
| 34) Hexachlorobutadiene        | 12.13 | 225 | 101280 | 35.866 | ng | 96     |
| 35) Caprolactam                | 12.70 | 113 | 80017  | 46.530 | ng | # 84   |
| 36) 4-Chloro-3-methylphenol    | 13.01 | 107 | 229277 | 45.875 | ng | 89     |
| 37) 2-Methylnaphthalene        | 13.41 | 142 | 464495 | 39.591 | ng | 92     |
| 39) 1,2,4,5-Tetrachlorobenzene | 13.77 | 216 | 192327 | 36.731 | ng | # 96   |
| 40) Hexachlorocyclopentadiene  | 13.74 | 237 | 240716 | 90.206 | ng | 92     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.99 | 196  | 148046   | 44.834 | nq    | 98       |
| 43) 2,4,5-Trichlorophenol      | 14.06 | 196  | 163206   | 42.704 | nq    | # 97     |
| 45) 1,1'-Biphenyl              | 14.38 | 154  | 575003   | 37.305 | nq    | 94       |
| 46) 2-Chloronaphthalene        | 14.44 | 162  | 438836   | 38.114 | nq    | 99       |
| 47) 2-Nitroaniline             | 14.62 | 65   | 145454   | 49.664 | nq    | 91       |
| 48) Acenaphthylene             | 15.27 | 152  | 716454   | 38.007 | nq    | 99       |
| 49) Dimethylphthalate          | 14.97 | 163  | 565895   | 37.785 | nq    | 100      |
| 50) 2,6-Dinitrotoluene         | 15.09 | 165  | 125132   | 50.019 | nq    | 89       |
| 51) Acenaphthene               | 15.60 | 154  | 448756   | 38.225 | nq    | 98       |
| 52) 3-Nitroaniline             | 15.42 | 138  | 87726    | 31.654 | nq    | # 82     |
| 53) 2,4-Dinitrophenol          | 15.62 | 184  | 37055    | 54.379 | nq    | # 1      |
| 54) Dibenzofuran               | 15.93 | 168  | 659359   | 39.444 | nq    | 94       |
| 55) 4-Nitrophenol              | 15.69 | 139  | 218127   | 88.147 | nq    | # 81     |
| 56) 2,4-Dinitrotoluene         | 15.87 | 165  | 175215   | 57.369 | nq    | # 84     |
| 57) Fluorene                   | 16.57 | 166  | 537705   | 38.973 | nq    | 97       |
| 58) 2,3,4,6-Tetrachlorophenol  | 16.14 | 232  | 137738m  | 46.420 | nq    |          |
| 59) Diethylphthalate           | 16.30 | 149  | 602831   | 38.162 | nq    | 97       |
| 60) 4-Chlorophenyl-phenylether | 16.55 | 204  | 260960   | 38.665 | nq    | 93       |
| 61) 4-Nitroaniline             | 16.57 | 138  | 139161   | 43.481 | nq    | 81       |
| 62) Azobenzene                 | 16.84 | 77   | 550452   | 38.951 | nq    | 97       |
| 64) 4,6-Dinitro-2-methylphenol | 16.62 | 198  | 47930    | 43.424 | nq    | 98       |
| 65) n-Nitrosodiphenylamine     | 16.76 | 169  | 498969   | 38.724 | nq    | 97       |
| 66) 4-Bromophenyl-phenylether  | 17.44 | 248  | 157433   | 37.590 | nq    | # 90     |
| 67) Hexachlorobenzene          | 17.57 | 284  | 165047   | 36.466 | nq    | # 91     |
| 68) Atrazine                   | 17.68 | 200  | 172858   | 40.755 | nq    | 95       |
| 69) Pentachlorophenol          | 17.90 | 266  | 192419   | 67.495 | nq    | 99       |
| 70) Phenanthrene               | 18.31 | 178  | 855415   | 38.711 | nq    | 98       |
| 71) Anthracene                 | 18.40 | 178  | 877893   | 39.572 | nq    | 98       |
| 72) Carbazole                  | 18.65 | 167  | 833803   | 38.131 | nq    | 97       |
| 73) Di-n-butylphthalate        | 19.16 | 149  | 1038890  | 38.727 | nq    | 99       |
| 74) Fluoranthene               | 20.26 | 202  | 967638   | 39.641 | nq    | 94       |
| 76) Benzidine                  | 20.41 | 184  | 260366   | 20.522 | nq    | 98       |
| 77) Pyrene                     | 20.61 | 202  | 974873   | 37.141 | nq    | 96       |
| 79) Butylbenzylphthalate       | 21.48 | 149  | 484658   | 41.647 | nq    | 92       |
| 80) Benzo(a)anthracene         | 22.61 | 228  | 929522   | 38.945 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 22.49 | 252  | 185486   | 20.983 | nq    | # 99     |
| 82) Chrysene                   | 22.68 | 228  | 874819   | 38.370 | nq    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 22.44 | 149  | 691728   | 40.156 | nq    | # 96     |
| 84) Di-n-octyl phthalate       | 23.87 | 149  | 1201747  | 45.769 | nq    | 98       |
| 85) Indeno(1,2,3-cd)pyrene     | 30.87 | 276  | 1067258  | 40.139 | nq    | 97       |
| 87) Benzo(b)fluoranthene       | 25.21 | 252  | 949950   | 39.544 | nq    | # 96     |
| 88) Benzo(k)fluoranthene       | 25.30 | 252  | 912300   | 38.212 | nq    | # 95     |
| 89) Benzo(a)pyrene             | 26.26 | 252  | 913552   | 39.982 | nq    | # 95     |
| 90) Dibenzo(a,h)anthracene     | 30.96 | 278  | 895987   | 38.958 | nq    | # 93     |
| 91) Benzo(g,h,i)perylene       | 32.27 | 276  | 891799   | 39.335 | nq    | # 91     |

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

