

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072617\  
 Data File : BF097088.D  
 Acq On : 26 Jul 2017 21:16  
 Operator : SJ/JU  
 Sample : I4400-03MS  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB02AMS

Quant Time: Jul 27 08:51:56 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.49  | 152  | 127482   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.78  | 136  | 514172   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.53  | 164  | 233364   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.00 | 188  | 374950   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.63 | 240  | 263421   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 14.97 | 264  | 193927   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |       |    |       |
|--------------------------|-------|-----|--------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.10  | 112 | 482962 | 57.11 | ng | 0.00  |
| 7) Phenol-d6             | 6.16  | 99  | 673124 | 69.72 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 7.06  | 82  | 464686 | 53.02 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.32 | 330 | 103718 | 56.25 | ng | 0.00  |
| 44) 2-Fluorobiphenyl     | 8.86  | 172 | 805961 | 58.61 | ng | -0.01 |
| 78) Terphenyl-d14        | 12.59 | 244 | 644948 | 49.92 | ng | 0.00  |

## Target Compounds

|                                |      |     |        |        |    | Qvalue |
|--------------------------------|------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.06 | 88  | 77531  | 21.970 | ng | # 74   |
| 3) Pyridine                    | 2.70 | 79  | 104323 | 9.654  | ng | # 63   |
| 4) n-Nitrosodimethylamine      | 2.63 | 42  | 143762 | 24.014 | ng | # 82   |
| 6) Aniline                     | 6.16 | 93  | 163552 | 13.462 | ng | # 71   |
| 8) 2-Chlorophenol              | 6.28 | 128 | 184026 | 20.351 | ng | # 92   |
| 9) Benzaldehyde                | 6.04 | 77  | 67225  | 11.764 | ng | # 99   |
| 10) Phenol                     | 6.17 | 94  | 275686 | 24.075 | ng | # 96   |
| 11) bis(2-Chloroethyl)ether    | 6.24 | 93  | 231281 | 25.536 | ng | # 91   |
| 12) 1,3-Dichlorobenzene        | 6.43 | 146 | 250711 | 25.728 | ng | # 98   |
| 13) 1,4-Dichlorobenzene        | 6.51 | 146 | 256059 | 26.515 | ng | # 95   |
| 14) 1,2-Dichlorobenzene        | 6.66 | 146 | 220989 | 26.208 | ng | # 99   |
| 15) Benzyl Alcohol             | 6.65 | 79  | 171921 | 28.127 | ng | # 97   |
| 16) 2,2'-oxybis(1-Chloropropan | 6.79 | 45  | 440935 | 24.273 | ng | # 89   |
| 17) 2-Methylphenol             | 6.78 | 107 | 163202 | 23.385 | ng | # 91   |
| 18) Hexachloroethane           | 7.00 | 117 | 82352  | 23.309 | ng | # 81   |
| 19) n-Nitroso-di-n-propylamine | 6.92 | 70  | 158755 | 24.982 | ng | # 83   |
| 20) 3+4-Methylphenols          | 6.93 | 107 | 223005 | 24.466 | ng | # 63   |
| 22) Acetophenone               | 6.91 | 105 | 310165 | 25.119 | ng | # 97   |
| 24) Nitrobenzene               | 7.08 | 77  | 229110 | 25.099 | ng | # 94   |
| 25) Isophorone                 | 7.33 | 82  | 415775 | 24.223 | ng | # 95   |
| 26) 2-Nitrophenol              | 7.40 | 139 | 62767  | 12.710 | ng | # 87   |
| 27) 2,4-Dimethylphenol         | 7.46 | 122 | 170561 | 20.936 | ng | # 97   |
| 28) bis(2-Chloroethoxy)methane | 7.55 | 93  | 280398 | 25.033 | ng | # 99   |
| 29) 2,4-Dichlorophenol         | 7.65 | 162 | 144731 | 20.623 | ng | # 97   |
| 30) 1,2,4-Trichlorobenzene     | 7.73 | 180 | 179126 | 26.777 | ng | # 99   |
| 31) Naphthalene                | 7.80 | 128 | 656984 | 27.106 | ng | # 99   |
| 33) 4-Chloroaniline            | 7.86 | 127 | 216402 | 21.943 | ng | # 99   |
| 34) Hexachlorobutadiene        | 7.93 | 225 | 91885  | 25.909 | ng | # 98   |
| 35) Caprolactam                | 8.21 | 113 | 31891  | 14.171 | ng | # 55   |
| 36) 4-Chloro-3-methylphenol    | 8.36 | 107 | 193468 | 25.268 | ng | # 90   |
| 37) 2-Methylnaphthalene        | 8.49 | 142 | 452032 | 29.456 | ng | # 97   |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.66 | 216 | 154629 | 24.833 | ng | # 99   |
| 40) Hexachlorocyclopentadiene  | 8.65 | 237 | 101492 | 49.362 | ng | # 99   |
| 42) 2,4,6-Trichlorophenol      | 8.78 | 196 | 66744  | 14.791 | ng | # 94   |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| 43) 2,4,5-Trichlorophenol      | 8.83  | 196  | 59842    | 13.250 | nq    | 96       |
| 45) 1,1'-Biphenyl              | 8.96  | 154  | 501430   | 25.156 | nq    | 97       |
| 46) 2-Chloronaphthalene        | 8.97  | 162  | 384690   | 26.226 | nq    | # 92     |
| 47) 2-Nitroaniline             | 9.08  | 65   | 145763   | 27.382 | nq    | 97       |
| 48) Acenaphthylene             | 9.39  | 152  | 657859   | 29.220 | nq    | 99       |
| 49) Dimethylphthalate          | 9.27  | 163  | 566683   | 31.978 | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.33  | 165  | 102097   | 27.164 | nq    | # 88     |
| 51) Acenaphthene               | 9.56  | 154  | 360002   | 27.146 | nq    | 100      |
| 52) 3-Nitroaniline             | 9.49  | 138  | 120053   | 25.733 | nq    | 92       |
| 53) 2,4-Dinitrophenol          | 9.62  | 184  | 6638     | 3.884  | nq    | # 68     |
| 54) Dibenzofuran               | 9.73  | 168  | 529580   | 29.980 | nq    | 99       |
| 55) 4-Nitrophenol              | 9.68  | 139  | 55758    | 20.097 | nq    | # 71     |
| 56) 2,4-Dinitrotoluene         | 9.73  | 165  | 126838   | 29.355 | nq    | # 51     |
| 57) Fluorene                   | 10.07 | 166  | 378902   | 28.539 | nq    | 97       |
| 58) 2,3,4,6-Tetrachlorophenol  | 9.86  | 232  | 34424    | 11.039 | nq    | # 97     |
| 59) Diethylphthalate           | 9.96  | 149  | 431045   | 26.513 | nq    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.07 | 204  | 159897   | 29.166 | nq    | 98       |
| 61) 4-Nitroaniline             | 10.10 | 138  | 112147   | 25.299 | nq    | 90       |
| 62) Azobenzene                 | 10.23 | 77   | 439475   | 29.138 | nq    | 92       |
| 64) 4,6-Dinitro-2-methylphenol | 10.15 | 198  | 13494    | 5.792  | nq    | # 77     |
| 65) n-Nitrosodiphenylamine     | 10.19 | 169  | 357966   | 27.439 | nq    | 98       |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 107616   | 28.760 | nq    | 94       |
| 67) Hexachlorobenzene          | 10.62 | 284  | 112754   | 26.871 | nq    | # 92     |
| 68) Atrazine                   | 10.72 | 200  | 114747   | 30.673 | nq    | 94       |
| 69) Pentachlorophenol          | 10.82 | 266  | 17231    | 9.925  | nq    | 98       |
| 70) Phenanthrene               | 11.03 | 178  | 574267   | 28.585 | nq    | 98       |
| 71) Anthracene                 | 11.07 | 178  | 642512   | 31.226 | nq    | 99       |
| 72) Carbazole                  | 11.24 | 167  | 571287   | 28.231 | nq    | 98       |
| 73) Di-n-butylphthalate        | 11.58 | 149  | 681775   | 27.255 | nq    | 98       |
| 74) Fluoranthene               | 12.20 | 202  | 564290   | 28.671 | nq    | 97       |
| 76) Benzidine                  | 12.33 | 184  | 37960    | 3.884  | nq    | # 91     |
| 77) Pyrene                     | 12.43 | 202  | 611426   | 28.352 | nq    | 99       |
| 79) Butylbenzylphthalate       | 13.06 | 149  | 290872   | 26.516 | nq    | # 80     |
| 80) Benzo(a)anthracene         | 13.62 | 228  | 442518   | 25.963 | nq    | 98       |
| 81) 3,3'-Dichlorobenzidine     | 13.59 | 252  | 127614   | 19.854 | nq    | # 96     |
| 82) Chrysene                   | 13.65 | 228  | 429951   | 25.833 | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 13.63 | 149  | 395512   | 27.614 | nq    | 100      |
| 84) Di-n-octyl phthalate       | 14.24 | 149  | 648930   | 24.689 | nq    | # 93     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.20 | 276  | 310690   | 21.770 | nq    | 98       |
| 87) Benzo(b)fluoranthene       | 14.62 | 252  | 331998   | 28.480 | nq    | 99       |
| 88) Benzo(k)fluoranthene       | 14.64 | 252  | 289910   | 26.098 | nq    | # 94     |
| 89) Benzo(a)pyrene             | 14.92 | 252  | 292926   | 27.456 | nq    | 99       |
| 90) Dibenzo(a,h)anthracene     | 16.21 | 278  | 255045   | 29.151 | nq    | 95       |
| 91) Benzo(g,h,i)perylene       | 16.56 | 276  | 299514   | 32.644 | nq    | 96       |

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

