

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041118\  
 Data File : BF104432.D  
 Acq On : 11 Apr 2018 12:36  
 Operator : JU/SJ  
 Sample : J2310-02MS  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P004-S003-0001-01MS

Manual Integrations  
 APPROVED

Sohil  
 4/12/2018 2:30:27 PM

Quant Time: Apr 11 14:26:23 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 11 13:19:22 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.81  | 152  | 138187   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 545353   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.85  | 164  | 223414   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.34 | 188  | 350366   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.99 | 240  | 265256   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.46 | 264  | 268714   | 20.00 | ng    | 0.02     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.42  | 112 | 857854  | 94.92 | ng | 0.01 |
| 7) Phenol-d6             | 6.45  | 99  | 1084322 | 97.65 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.37  | 82  | 666705  | 79.83 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.64 | 330 | 231494  | 99.89 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.17  | 172 | 1103100 | 78.00 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.93 | 244 | 859732  | 73.89 | ng | 0.00 |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 2.54 | 88   | 79096    | 18.783 | ng    | 89     |
| 3) Pyridine                    | 3.29 | 79   | 247436   | 20.899 | ng    | 88     |
| 4) n-Nitrosodimethylamine      | 3.23 | 42   | 107321   | 25.931 | ng    | 82     |
| 6) Aniline                     | 6.47 | 93   | 178262   | 11.555 | ng    | 99     |
| 8) 2-Chlorophenol              | 6.60 | 128  | 300553   | 31.509 | ng    | 91     |
| 9) Benzaldehyde                | 6.36 | 77   | 183416   | 30.075 | ng    | 99     |
| 10) Phenol                     | 6.46 | 94   | 380027   | 32.255 | ng    | 98     |
| 11) bis(2-Chloroethyl)ether    | 6.55 | 93   | 301007   | 32.015 | ng    | 92     |
| 12) 1,3-Dichlorobenzene        | 6.75 | 146  | 302194   | 27.965 | ng    | 98     |
| 13) 1,4-Dichlorobenzene        | 6.83 | 146  | 309704   | 28.751 | ng    | 99     |
| 14) 1,2-Dichlorobenzene        | 6.98 | 146  | 291005   | 29.152 | ng    | 99     |
| 15) Benzyl Alcohol             | 6.95 | 79   | 257775   | 30.564 | ng    | 98     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.09 | 45   | 370920   | 29.377 | ng    | 92     |
| 17) 2-Methylphenol             | 7.06 | 107  | 246991   | 29.788 | ng    | 97     |
| 18) Hexachloroethane           | 7.32 | 117  | 106261   | 27.667 | ng    | 98     |
| 19) n-Nitroso-di-n-propylamine | 7.22 | 70   | 201793   | 27.810 | ng    | 95     |
| 20) 3+4-Methylphenols          | 7.22 | 107  | 297391   | 28.919 | ng    | # 72   |
| 22) Acetophenone               | 7.22 | 105  | 402298   | 29.963 | ng    | # 97   |
| 24) Nitrobenzene               | 7.39 | 77   | 307569   | 33.356 | ng    | 99     |
| 25) Isophorone                 | 7.63 | 82   | 495890   | 28.078 | ng    | 98     |
| 26) 2-Nitrophenol              | 7.71 | 139  | 162856   | 43.384 | ng    | 93     |
| 27) 2,4-Dimethylphenol         | 7.75 | 122  | 233002   | 29.894 | ng    | 100    |
| 28) bis(2-Chloroethoxy)methane | 7.84 | 93   | 346574   | 32.096 | ng    | 99     |
| 29) 2,4-Dichlorophenol         | 7.95 | 162  | 242383   | 32.592 | ng    | 97     |
| 30) 1,2,4-Trichlorobenzene     | 8.03 | 180  | 249356   | 30.552 | ng    | 99     |
| 31) Naphthalene                | 8.12 | 128  | 781845   | 28.791 | ng    | 99     |
| 32) Benzoic acid               | 7.82 | 122  | 43595    | 7.010  | ng    | 94     |
| 33) 4-Chloroaniline            | 8.17 | 127  | 228689   | 19.657 | ng    | 96     |
| 34) Hexachlorobutadiene        | 8.23 | 225  | 137586   | 30.776 | ng    | 99     |
| 35) Caprolactam                | 8.53 | 113  | 75528m   | 29.112 | ng    |        |
| 36) 4-Chloro-3-methylphenol    | 8.65 | 107  | 255835   | 32.082 | ng    | 97     |
| 37) 2-Methylnaphthalene        | 8.80 | 142  | 492350   | 28.029 | ng    | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.97 | 216  | 220391   | 34.461 | ng    | 99     |
| 40) Hexachlorocyclopentadiene  | 8.96 | 237  | 150715   | 42.095 | ng    | 98     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.08  | 196  | 163819   | 36.900 | ng    | 98       |
| 43) 2,4,5-Trichlorophenol      | 9.12  | 196  | 167646   | 33.745 | ng    | 98       |
| 45) 1,1'-Biphenyl              | 9.27  | 154  | 631414   | 33.643 | ng    | 99       |
| 46) 2-Chloronaphthalene        | 9.30  | 162  | 496268   | 33.476 | ng    | 98       |
| 47) 2-Nitroaniline             | 9.39  | 65   | 151552   | 41.339 | ng    | 93       |
| 48) Acenaphthylene             | 9.71  | 152  | 717264   | 30.838 | ng    | 99       |
| 49) Dimethylphthalate          | 9.57  | 163  | 637401   | 36.179 | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.63  | 165  | 126863   | 38.915 | ng    | 97       |
| 51) Acenaphthene               | 9.88  | 154  | 446841   | 31.487 | ng    | 99       |
| 52) 3-Nitroaniline             | 9.80  | 138  | 107942   | 28.283 | ng    | 96       |
| 53) 2,4-Dinitrophenol          | 9.90  | 184  | 53832    | 49.491 | ng #  | 22       |
| 54) Dibenzofuran               | 10.06 | 168  | 635068   | 32.111 | ng    | 100      |
| 55) 4-Nitrophenol              | 9.96  | 139  | 195614   | 65.249 | ng    | 97       |
| 56) 2,4-Dinitrotoluene         | 10.04 | 165  | 160160   | 37.454 | ng #  | 88       |
| 57) Fluorene                   | 10.40 | 166  | 437806   | 30.413 | ng    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.17 | 232  | 119210   | 32.163 | ng    | 95       |
| 59) Diethylphthalate           | 10.27 | 149  | 543912   | 30.999 | ng    | 97       |
| 60) 4-Chlorophenyl-phenylether | 10.39 | 204  | 226021   | 35.256 | ng    | 95       |
| 61) 4-Nitroaniline             | 10.42 | 138  | 116746   | 31.285 | ng    | 96       |
| 62) Azobenzene                 | 10.55 | 77   | 499319   | 29.786 | ng    | 95       |
| 64) 4,6-Dinitro-2-methylphenol | 10.45 | 198  | 71382    | 42.777 | ng    | 79       |
| 65) n-Nitrosodiphenylamine     | 10.51 | 169  | 435751   | 35.870 | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.88 | 248  | 134086   | 35.979 | ng    | 94       |
| 67) Hexachlorobenzene          | 10.95 | 284  | 143066   | 34.117 | ng #  | 91       |
| 68) Atrazine                   | 11.04 | 200  | 130255   | 35.522 | ng    | 99       |
| 69) Pentachlorophenol          | 11.14 | 266  | 155112   | 59.791 | ng    | 97       |
| 70) Phenanthrene               | 11.36 | 178  | 601734   | 30.840 | ng    | 98       |
| 71) Anthracene                 | 11.42 | 178  | 604915   | 30.499 | ng    | 98       |
| 72) Carbazole                  | 11.57 | 167  | 596705   | 30.788 | ng    | 100      |
| 73) Di-n-butylphthalate        | 11.90 | 149  | 740169   | 31.264 | ng    | 100      |
| 74) Fluoranthene               | 12.55 | 202  | 585244   | 28.708 | ng    | 98       |
| 76) Benzidine                  | 12.67 | 184  | 86562    | 5.321  | ng    | 98       |
| 77) Pyrene                     | 12.78 | 202  | 602373   | 30.637 | ng    | 99       |
| 79) Butylbenzylphthalate       | 13.40 | 149  | 283569   | 30.613 | ng    | 98       |
| 80) Benzo(a)anthracene         | 13.98 | 228  | 495364   | 31.260 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 13.94 | 252  | 135376   | 22.912 | ng    | 99       |
| 82) Chrysene                   | 14.02 | 228  | 491890   | 30.220 | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 13.97 | 149  | 407945   | 34.240 | ng    | 99       |
| 84) Di-n-octyl phthalate       | 14.59 | 149  | 656984   | 33.001 | ng #  | 95       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.92 | 276  | 474984   | 34.352 | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 15.03 | 252  | 514036   | 30.288 | ng #  | 93       |
| 88) Benzo(k)fluoranthene       | 15.07 | 252  | 465047   | 29.024 | ng    | 97       |
| 89) Benzo(a)pyrene             | 15.40 | 252  | 462752   | 30.474 | ng #  | 96       |
| 90) Dibenzo(a,h)anthracene     | 16.94 | 278  | 405981   | 32.552 | ng    | 99       |
| 91) Benzo(g,h,i)perylene       | 17.36 | 276  | 387269   | 32.051 | ng    | 96       |

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

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