

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111414\  
 Data File : BF075544.D  
 Acq On : 15 Nov 2014 16:18  
 Operator : TP / JJ  
 Sample : F4648-01MS  
 Misc :  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 REC-2-1(1.5-2.0)MS

Manual Integrations  
 APPROVED

mohammad  
 11/17/2014 7:36:21 PM

Quant Time: Nov 17 13:10:57 2014  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111214.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 16 02:30:12 2014  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.56  | 152  | 39908    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 9.13  | 136  | 173618   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 11.32 | 164  | 86578    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 13.16 | 188  | 147715   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 16.46 | 240  | 163449   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 18.23 | 264  | 180651   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.84  | 112  | 444451   | 196.75 | ng    | 0.01     |
| 7) Phenol-d6                | 7.10  | 99   | 545927   | 200.96 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 8.24  | 82   | 316865   | 133.81 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.30 | 330  | 136358   | 188.04 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.48 | 172  | 605502   | 126.38 | ng    | 0.00     |
| 78) Terphenyl-d14           | 15.16 | 244  | 647425   | 106.64 | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 2.48  | 88   | 53835    | 56.77  | ng    | 96     |
| 3) Pyridine                    | 3.28  | 79   | 121939m  | 47.85  | ng    |        |
| 4) n-Nitrosodimethylamine      | 3.18  | 42   | 73590    | 54.56  | ng    | # 80   |
| 6) Aniline                     | 7.14  | 93   | 92003    | 23.45  | ng    | 94     |
| 8) 2-Chlorophenol              | 7.28  | 128  | 154558   | 59.11  | ng    | 91     |
| 9) Benzaldehyde                | 7.00  | 77   | 9484     | 5.19   | ng    | 96     |
| 10) Phenol                     | 7.12  | 94   | 213527   | 64.43  | ng    | 82     |
| 11) bis(2-Chloroethyl)ether    | 7.24  | 93   | 157074   | 62.58  | ng    | 86     |
| 12) 1,3-Dichlorobenzene        | 7.48  | 146  | 163892   | 57.52  | ng    | 97     |
| 13) 1,4-Dichlorobenzene        | 7.57  | 146  | 162260   | 55.98  | ng    | 98     |
| 14) 1,2-Dichlorobenzene        | 7.76  | 146  | 156724   | 57.66  | ng    | # 92   |
| 15) Benzyl Alcohol             | 7.73  | 79   | 129074   | 60.53  | ng    | 92     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.91  | 45   | 307609   | 59.20  | ng    | 94     |
| 17) 2-Methylphenol             | 7.86  | 107  | 123681   | 57.14  | ng    | 97     |
| 18) Hexachloroethane           | 8.17  | 117  | 57971    | 58.32  | ng    | 97     |
| 19) n-Nitroso-di-n-propylamine | 8.06  | 70   | 106950   | 57.78  | ng    | 96     |
| 20) 3+4-Methylphenols          | 8.06  | 107  | 161451   | 56.97  | ng    | 96     |
| 22) Acetophenone               | 8.06  | 105  | 228318   | 60.96  | ng    | # 92   |
| 24) Nitrobenzene               | 8.26  | 77   | 174036   | 63.42  | ng    | 97     |
| 25) Isophorone                 | 8.56  | 82   | 310889   | 57.50  | ng    | 97     |
| 26) 2-Nitrophenol              | 8.65  | 139  | 73918    | 59.11  | ng    | 97     |
| 27) 2,4-Dimethylphenol         | 8.71  | 122  | 128055   | 52.84  | ng    | 97     |
| 28) bis(2-Chloroethoxy)methane | 8.84  | 93   | 194576   | 59.05  | ng    | 99     |
| 29) 2,4-Dichlorophenol         | 8.96  | 162  | 122920   | 57.89  | ng    | 94     |
| 30) 1,2,4-Trichlorobenzene     | 9.06  | 180  | 124050   | 55.64  | ng    | 97     |
| 31) Naphthalene                | 9.16  | 128  | 460483   | 59.49  | ng    | 100    |
| 32) Benzoic acid               | 8.78  | 122  | 26081    | 17.81  | ng    | 99     |
| 33) 4-Chloroaniline            | 9.22  | 127  | 68288    | 20.30  | ng    | 93     |
| 34) Hexachlorobutadiene        | 9.32  | 225  | 60949    | 50.59  | ng    | 98     |
| 35) Caprolactam                | 9.64  | 113  | 43547    | 61.89  | ng    | 96     |
| 36) 4-Chloro-3-methylphenol    | 9.83  | 107  | 139871   | 60.04  | ng    | 96     |
| 37) 2-Methylnaphthalene        | 10.01 | 142  | 307141   | 58.16  | ng    | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 10.22 | 216  | 113046   | 63.52  | ng    | 97     |
| 40) Hexachlorocyclopentadiene  | 10.21 | 237  | 118917   | 110.00 | ng    | 99     |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| -----                          |       |      |          |        |       |          |
| 42) 2,4,6-Trichlorophenol      | 10.37 | 196  | 83178    | 58.77  | nq    | 99       |
| 43) 2,4,5-Trichlorophenol      | 10.41 | 196  | 88927    | 60.33  | nq    | # 94     |
| 45) 1,1'-Biphenyl              | 10.60 | 154  | 348053   | 59.60  | nq    | 99       |
| 46) 2-Chloronaphthalene        | 10.62 | 162  | 290968   | 63.72  | nq    | 99       |
| 47) 2-Nitroaniline             | 10.74 | 65   | 90937    | 66.19  | nq    | 92       |
| 48) Acenaphthylene             | 11.13 | 152  | 468346   | 62.21  | nq    | 99       |
| 49) Dimethylphthalate          | 10.99 | 163  | 352793   | 59.61  | nq    | 100      |
| 50) 2,6-Dinitrotoluene         | 11.05 | 165  | 69024    | 59.21  | nq    | 86       |
| 51) Acenaphthene               | 11.35 | 154  | 300022   | 66.02  | nq    | 98       |
| 52) 3-Nitroaniline             | 11.26 | 138  | 61992    | 45.10  | nq    | # 92     |
| 53) 2,4-Dinitrophenol          | 11.39 | 184  | 54648    | 82.52  | nq    | 85       |
| 54) Dibenzofuran               | 11.57 | 168  | 391589   | 60.29  | nq    | 94       |
| 55) 4-Nitrophenol              | 11.47 | 139  | 141798   | 129.05 | nq    | 88       |
| 56) 2,4-Dinitrotoluene         | 11.56 | 165  | 100386   | 65.55  | nq    | 95       |
| 57) Fluorene                   | 11.99 | 166  | 323343   | 61.56  | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 11.72 | 232  | 70906    | 60.61  | nq    | # 98     |
| 59) Diethylphthalate           | 11.87 | 149  | 332004   | 54.06  | nq    | 97       |
| 60) 4-Chlorophenyl-phenylether | 12.00 | 204  | 134565   | 59.58  | nq    | 89       |
| 61) 4-Nitroaniline             | 12.01 | 138  | 76947    | 56.00  | nq    | 88       |
| 62) Azobenzene                 | 12.20 | 77   | 313167   | 57.96  | nq    | 90       |
| 64) 4,6-Dinitro-2-methylphenol | 12.05 | 198  | 40872    | 54.71  | nq    | # 47     |
| 65) n-Nitrosodiphenylamine     | 12.15 | 169  | 270302   | 57.85  | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 12.61 | 248  | 79779    | 57.41  | nq    | # 85     |
| 67) Hexachlorobenzene          | 12.68 | 284  | 93566    | 59.29  | nq    | # 83     |
| 68) Atrazine                   | 12.81 | 200  | 79938    | 55.13  | nq    | 99       |
| 69) Pentachlorophenol          | 12.92 | 266  | 108291   | 109.33 | nq    | 97       |
| 70) Phenanthrene               | 13.19 | 178  | 488685   | 62.86  | nq    | 99       |
| 71) Anthracene                 | 13.26 | 178  | 494411   | 61.53  | nq    | 99       |
| 72) Carbazole                  | 13.45 | 167  | 486831   | 61.92  | nq    | 98       |
| 73) Di-n-butylphthalate        | 13.90 | 149  | 550996   | 50.73  | nq    | 99       |
| 74) Fluoranthene               | 14.68 | 202  | 531260   | 63.80  | nq    | 91       |
| 76) Benzidine                  | 14.85 | 184  | 154659   | 29.76  | nq    | 99       |
| 77) Pyrene                     | 14.95 | 202  | 559388   | 58.87  | nq    | 99       |
| 79) Butylbenzylphthalate       | 15.76 | 149  | 265637   | 49.78  | nq    | # 77     |
| 80) Benzo(a)anthracene         | 16.45 | 228  | 524714   | 61.11  | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 16.43 | 252  | 143630   | 45.30  | nq    | # 93     |
| 82) Chrysene                   | 16.49 | 228  | 470894   | 63.41  | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 16.48 | 149  | 382349   | 45.49  | nq    | # 97     |
| 84) Di-n-octyl phthalate       | 17.29 | 149  | 709498   | 47.95  | nq    | 98       |
| 85) Indeno(1,2,3-cd)pyrene     | 19.81 | 276  | 655857m  | 72.80  | nq    |          |
| 87) Benzo(b)fluoranthene       | 17.77 | 252  | 566950   | 58.70  | nq    | # 95     |
| 88) Benzo(k)fluoranthene       | 17.81 | 252  | 526573   | 60.75  | nq    | # 94     |
| 89) Benzo(a)pyrene             | 18.17 | 252  | 547445   | 63.34  | nq    | # 95     |
| 90) Dibenzo(a,h)anthracene     | 19.83 | 278  | 556889   | 61.70  | nq    | # 94     |
| 91) Benzo(g,h,i)perylene       | 20.28 | 276  | 558255   | 64.92  | nq    | 97       |
| -----                          |       |      |          |        |       |          |

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

