

Data Path : V:\HPCHEM1\BNA F\DATA\BF112115\  
 Data File : BF083149.D  
 Acq On : 22 Nov 2015 10:24  
 Operator : UM/IZ  
 Sample : G4510-09MSD  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-14A-111815MSD

Manual Integrations  
 APPROVED

Mmdadoda  
 11/23/2015 7:01:51 PM

Quant Time: Nov 23 16:17:55 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 09:22:46 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.65  | 152  | 205498   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 7.94  | 136  | 794943   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.69  | 164  | 403619   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.17 | 188  | 707143   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.79 | 240  | 548541   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.15 | 264  | 478918   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.27  | 112 | 1186543 | 87.29  | ng | -0.01 |
| 7) Phenol-d6             | 6.32  | 99  | 989210  | 56.25  | ng | -0.02 |
| 23) Nitrobenzene-d5      | 7.23  | 82  | 1681991 | 96.68  | ng | 0.00  |
| 41) 2,4,6-Tribromophenol | 10.48 | 330 | 498699  | 120.77 | ng | -0.01 |
| 44) 2-Fluorobiphenyl     | 9.03  | 172 | 2576255 | 89.01  | ng | 0.00  |
| 78) Terphenyl-d14        | 12.75 | 244 | 2184314 | 93.77  | ng | -0.01 |

## Target Compounds

|                                |      |     |         |       |     | Qvalue |
|--------------------------------|------|-----|---------|-------|-----|--------|
| 2) 1,4-Dioxane                 | 2.18 | 88  | 108056  | 16.05 | ng  | 97     |
| 3) Pyridine                    | 3.58 | 79  | 75335m  | 4.24  | ng  |        |
| 4) n-Nitrosodimethylamine      | 2.79 | 42  | 130206  | 15.87 | ng  | # 99   |
| 8) 2-Chlorophenol              | 6.44 | 128 | 658411  | 44.83 | ng  | 97     |
| 9) Benzaldehyde                | 6.19 | 77  | 568889  | Below | Cal | 95     |
| 10) Phenol                     | 6.33 | 94  | 396155  | 18.62 | ng  | # 77   |
| 11) bis(2-Chloroethyl)ether    | 6.40 | 93  | 777775  | 51.20 | ng  | 99     |
| 12) 1,3-Dichlorobenzene        | 6.59 | 146 | 682722m | 40.72 | ng  |        |
| 13) 1,4-Dichlorobenzene        | 6.67 | 146 | 694643  | 40.95 | ng  | 93     |
| 14) 1,2-Dichlorobenzene        | 6.82 | 146 | 623072  | 40.42 | ng  | 96     |
| 15) Benzyl Alcohol             | 6.82 | 79  | 392415  | 26.70 | ng  | 99     |
| 16) 2,2'-oxybis(1-Chloropropan | 6.95 | 45  | 1151872 | 48.62 | ng  | 86     |
| 17) 2-Methylphenol             | 6.95 | 107 | 791588  | 65.14 | ng  | # 69   |
| 18) Hexachloroethane           | 7.16 | 117 | 252535  | 42.27 | ng  | # 87   |
| 19) n-Nitroso-di-n-propylamine | 7.10 | 70  | 609315  | 49.78 | ng  | # 93   |
| 20) 3+4-Methylphenols          | 7.10 | 107 | 581712  | 37.87 | ng  | 93     |
| 22) Acetophenone               | 7.07 | 105 | 1044654 | 45.77 | ng  | # 98   |
| 24) Nitrobenzene               | 7.24 | 77  | 798077  | 42.93 | ng  | 99     |
| 25) Isophorone                 | 7.50 | 82  | 1585568 | 48.14 | ng  | 99     |
| 26) 2-Nitrophenol              | 7.56 | 139 | 384054  | 46.80 | ng  | 94     |
| 27) 2,4-Dimethylphenol         | 7.62 | 122 | 606736  | 46.33 | ng  | 97     |
| 28) bis(2-Chloroethoxy)methane | 7.71 | 93  | 945126  | 49.35 | ng  | 98     |
| 29) 2,4-Dichlorophenol         | 7.82 | 162 | 612365  | 49.16 | ng  | 99     |
| 30) 1,2,4-Trichlorobenzene     | 7.88 | 180 | 593707  | 43.39 | ng  | 95     |
| 31) Naphthalene                | 7.96 | 128 | 1976586 | 46.07 | ng  | 98     |
| 32) Benzoic acid               | 7.75 | 122 | 143724  | 14.12 | ng  | 97     |
| 33) 4-Chloroaniline            | 8.03 | 127 | 64941   | 3.90  | ng  | 96     |
| 34) Hexachlorobutadiene        | 8.09 | 225 | 345526  | 42.73 | ng  | 99     |
| 35) Caprolactam                | 8.44 | 113 | 24575   | 6.16  | ng  | 94     |
| 36) 4-Chloro-3-methylphenol    | 8.51 | 107 | 621771  | 43.09 | ng  | # 86   |
| 37) 2-Methylnaphthalene        | 8.65 | 142 | 1282519 | 46.06 | ng  | 99     |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.82 | 216 | 578759  | 44.24 | ng  | 98     |
| 40) Hexachlorocyclopentadiene  | 8.81 | 237 | 433170  | 58.23 | ng  | 98     |
| 42) 2,4,6-Trichlorophenol      | 8.94 | 196 | 418551  | 44.67 | ng  | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 43) 2,4,5-Trichlorophenol      | 8.98  | 196  | 452255   | 47.21 | nq    | # 87     |
| 45) 1,1'-Biphenyl              | 9.12  | 154  | 1441328  | 41.96 | nq    | 96       |
| 46) 2-Chloronaphthalene        | 9.14  | 162  | 1253890  | 46.47 | nq    | 96       |
| 47) 2-Nitroaniline             | 9.24  | 65   | 435630   | 45.64 | nq    | 97       |
| 48) Acenaphthylene             | 9.55  | 152  | 1751400  | 41.88 | nq    | 98       |
| 49) Dimethylphthalate          | 9.44  | 163  | 1527790  | 49.17 | nq    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.50  | 165  | 337011   | 48.33 | nq    | # 55     |
| 51) Acenaphthene               | 9.72  | 154  | 1133198  | 44.53 | nq    | 100      |
| 52) 3-Nitroaniline             | 9.66  | 138  | 50164    | 6.75  | nq    | # 58     |
| 53) 2,4-Dinitrophenol          | 9.76  | 184  | 353400   | 87.98 | nq    | # 84     |
| 54) Dibenzofuran               | 9.90  | 168  | 1585098  | 44.05 | nq    | 95       |
| 55) 4-Nitrophenol              | 9.85  | 139  | 210630   | 36.95 | nq    | # 75     |
| 56) 2,4-Dinitrotoluene         | 9.88  | 165  | 413057   | 46.76 | nq    | 98       |
| 57) Fluorene                   | 10.24 | 166  | 1358245  | 45.68 | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.02 | 232  | 376385   | 47.90 | nq    | 99       |
| 59) Diethylphthalate           | 10.14 | 149  | 1476163  | 47.72 | nq    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.24 | 204  | 616335   | 45.25 | nq    | # 80     |
| 61) 4-Nitroaniline             | 10.27 | 138  | 125542   | 17.15 | nq    | 95       |
| 62) Azobenzene                 | 10.39 | 77   | 1605270  | 45.47 | nq    | 97       |
| 64) 4,6-Dinitro-2-methylphenol | 10.30 | 198  | 247459   | 50.79 | nq    | 89       |
| 65) n-Nitrosodiphenylamine     | 10.35 | 169  | 896269   | 37.27 | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.72 | 248  | 385858   | 49.17 | nq    | # 89     |
| 67) Hexachlorobenzene          | 10.79 | 284  | 418515   | 48.43 | nq    | # 80     |
| 68) Atrazine                   | 10.90 | 200  | 367558   | 52.63 | nq    | 94       |
| 69) Pentachlorophenol          | 10.98 | 266  | 513150   | 91.17 | nq    | 98       |
| 70) Phenanthrene               | 11.19 | 178  | 1860192  | 45.66 | nq    | 99       |
| 71) Anthracene                 | 11.25 | 178  | 2049107  | 49.30 | nq    | 99       |
| 72) Carbazole                  | 11.41 | 167  | 1742734  | 47.17 | nq    | 98       |
| 73) Di-n-butylphthalate        | 11.75 | 149  | 2280401  | 50.57 | nq    | 99       |
| 74) Fluoranthene               | 12.38 | 202  | 2005465  | 48.10 | nq    | 94       |
| 77) Pyrene                     | 12.59 | 202  | 1878153  | 50.12 | nq    | 99       |
| 79) Butylbenzylphthalate       | 13.23 | 149  | 999638   | 56.36 | nq    | 97       |
| 80) Benzo(a)anthracene         | 13.78 | 228  | 1802843  | 53.14 | nq    | 100      |
| 82) Chrysene                   | 13.82 | 228  | 1346365  | 42.79 | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 13.79 | 149  | 1265346  | 54.62 | nq    | 98       |
| 84) Di-n-octyl phthalate       | 14.40 | 149  | 2112719  | 52.98 | nq    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.42 | 276  | 1456651  | 50.90 | nq    | 97       |
| 87) Benzo(b)fluoranthene       | 14.79 | 252  | 1713711m | 52.37 | nq    |          |
| 88) Benzo(k)fluoranthene       | 14.81 | 252  | 1065862m | 43.72 | nq    |          |
| 89) Benzo(a)pyrene             | 15.10 | 252  | 1292884  | 47.86 | nq    | # 94     |
| 90) Dibenzo(a,h)anthracene     | 16.43 | 278  | 1234297  | 50.29 | nq    | # 96     |
| 91) Benzo(g,h,i)perylene       | 16.80 | 276  | 1211638  | 50.57 | nq    | # 95     |

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

