

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052019\  
 Data File : BF114434.D  
 Acq On : 20 May 2019 13:12  
 Operator : JU/SJ  
 Sample : K2943-05MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GIS-5MSD

Quant Time: May 21 11:15:50 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 20 04:47:40 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.83  | 152  | 188703   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.11  | 136  | 684006   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.87  | 164  | 316503   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.35 | 188  | 591981   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.00 | 240  | 423189   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.48 | 264  | 524490   | 20.00 | ng    | 0.02     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.47  | 112 | 1432633 | 122.18 | ng | 0.00 |
| 7) Phenol-d6             | 6.48  | 99  | 1851811 | 133.52 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.40  | 82  | 1146193 | 94.04  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.66 | 330 | 417789  | 127.68 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 9.19  | 172 | 1951963 | 93.29  | ng | 0.00 |
| 79) Terphenyl-d14        | 12.93 | 244 | 1740534 | 84.78  | ng | 0.00 |

## Target Compounds

|                                |      |     |         |        |    | Qvalue |
|--------------------------------|------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.60 | 88  | 206456  | 32.032 | ng | 98     |
| 3) Pyridine                    | 3.38 | 79  | 365986  | 20.609 | ng | 97     |
| 4) n-Nitrosodimethylamine      | 3.31 | 42  | 322381  | 37.646 | ng | 98     |
| 6) Aniline                     | 6.50 | 93  | 401831  | 20.058 | ng | # 28   |
| 8) 2-Chlorophenol              | 6.62 | 128 | 561355  | 44.843 | ng | 98     |
| 9) Benzaldehyde                | 6.38 | 77  | 384154  | 39.566 | ng | 100    |
| 10) Phenol                     | 6.49 | 94  | 697126  | 42.730 | ng | 99     |
| 11) bis(2-Chloroethyl)ether    | 6.57 | 93  | 547069  | 44.168 | ng | 97     |
| 12) 1,3-Dichlorobenzene        | 6.77 | 146 | 587570  | 41.815 | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 6.85 | 146 | 590777  | 41.722 | ng | 98     |
| 14) 1,2-Dichlorobenzene        | 7.00 | 146 | 549073  | 42.444 | ng | 99     |
| 15) Benzyl Alcohol             | 6.98 | 79  | 462848  | 42.790 | ng | 98     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.10 | 45  | 988590  | 41.164 | ng | 76     |
| 17) 2-Methylphenol             | 7.09 | 107 | 449335  | 43.696 | ng | 95     |
| 18) Hexachloroethane           | 7.34 | 117 | 216434  | 40.721 | ng | 99     |
| 19) n-Nitroso-di-n-propylamine | 7.25 | 70  | 380755  | 43.313 | ng | 100    |
| 20) 3+4-Methylphenols          | 7.25 | 107 | 571965  | 48.141 | ng | # 63   |
| 22) Acetophenone               | 7.24 | 105 | 751962  | 49.625 | ng | 91     |
| 24) Nitrobenzene               | 7.42 | 77  | 595157  | 47.943 | ng | 94     |
| 25) Isophorone                 | 7.65 | 82  | 1069177 | 47.300 | ng | 99     |
| 26) 2-Nitrophenol              | 7.73 | 139 | 309943  | 51.462 | ng | 96     |
| 27) 2,4-Dimethylphenol         | 7.77 | 122 | 488523  | 51.645 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 7.86 | 93  | 682746  | 46.551 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 7.98 | 162 | 459755  | 48.811 | ng | 97     |
| 30) 1,2,4-Trichlorobenzene     | 8.06 | 180 | 489641  | 45.715 | ng | 99     |
| 31) Naphthalene                | 8.13 | 128 | 1551618 | 48.562 | ng | 99     |
| 32) Benzoic acid               | 7.91 | 122 | 233441  | 36.569 | ng | 98     |
| 33) 4-Chloroaniline            | 8.19 | 127 | 190295  | 13.070 | ng | 96     |
| 34) Hexachlorobutadiene        | 8.25 | 225 | 270068  | 44.315 | ng | 98     |
| 35) Caprolactam                | 8.56 | 113 | 152708  | 49.720 | ng | 92     |
| 36) 4-Chloro-3-methylphenol    | 8.68 | 107 | 485903  | 51.249 | ng | 98     |
| 37) 2-Methylnaphthalene        | 8.83 | 142 | 1040907 | 50.494 | ng | 97     |
| 38) 1-Methylnaphthalene        | 8.93 | 142 | 973837  | 50.164 | ng | 100    |
| 40) 1,2,4,5-Tetrachlorobenzene | 9.00 | 216 | 471558  | 49.184 | ng | 99     |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 8.98  | 237  | 178471   | 42.121 | ng    | 96       |
| 43) 2,4,6-Trichlorophenol      | 9.11  | 196  | 306989   | 46.552 | ng    | 98       |
| 44) 2,4,5-Trichlorophenol      | 9.16  | 196  | 328569   | 48.583 | ng    | 96       |
| 46) 1,1'-Biphenyl              | 9.29  | 154  | 1238684  | 48.444 | ng    | 98       |
| 47) 2-Chloronaphthalene        | 9.32  | 162  | 953274   | 46.325 | ng    | 99       |
| 48) 2-Nitroaniline             | 9.42  | 65   | 332322   | 45.537 | ng    | 97       |
| 49) Acenaphthylene             | 9.73  | 152  | 1502100  | 47.994 | ng    | 99       |
| 50) Dimethylphthalate          | 9.59  | 163  | 1378464  | 59.329 | ng    | 100      |
| 51) 2,6-Dinitrotoluene         | 9.66  | 165  | 251306   | 48.766 | ng    | 88       |
| 52) Acenaphthene               | 9.90  | 154  | 875855   | 45.604 | ng    | 99       |
| 53) 3-Nitroaniline             | 9.82  | 138  | 127898   | 19.993 | ng    | 94       |
| 54) 2,4-Dinitrophenol          | 9.95  | 184  | 175792   | 68.865 | ng    | 97       |
| 55) Dibenzofuran               | 10.07 | 168  | 1281159  | 45.492 | ng    | 97       |
| 56) 4-Nitrophenol              | 10.01 | 139  | 326176   | 72.100 | ng    | 95       |
| 57) 2,4-Dinitrotoluene         | 10.06 | 165  | 316721   | 45.281 | ng    | # 88     |
| 58) Fluorene                   | 10.42 | 166  | 1028631  | 47.287 | ng    | 97       |
| 59) 2,3,4,6-Tetrachlorophenol  | 10.20 | 232  | 272885   | 46.763 | ng    | 98       |
| 60) Diethylphthalate           | 10.29 | 149  | 1058780  | 44.849 | ng    | 100      |
| 61) 4-Chlorophenyl-phenylether | 10.40 | 204  | 489160   | 45.785 | ng    | 98       |
| 62) 4-Nitroaniline             | 10.45 | 138  | 259805   | 38.649 | ng    | 94       |
| 63) Azobenzene                 | 10.56 | 77   | 1042467  | 45.620 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylphenol | 10.48 | 198  | 125267   | 44.038 | ng    | 92       |
| 66) n-Nitrosodiphenylamine     | 10.53 | 169  | 929095   | 51.712 | ng    | 98       |
| 67) 4-Bromophenyl-phenylether  | 10.89 | 248  | 304148   | 46.663 | ng    | 99       |
| 68) Hexachlorobenzene          | 10.97 | 284  | 323611   | 44.880 | ng    | 99       |
| 69) Atrazine                   | 11.05 | 200  | 266232   | 47.617 | ng    | 98       |
| 70) Pentachlorophenol          | 11.17 | 266  | 258366   | 75.587 | ng    | 98       |
| 71) Phenanthrene               | 11.38 | 178  | 1402806  | 48.708 | ng    | 99       |
| 72) Anthracene                 | 11.43 | 178  | 1460245  | 50.479 | ng    | 98       |
| 73) Carbazole                  | 11.59 | 167  | 1382834  | 50.130 | ng    | 98       |
| 74) Di-n-butylphthalate        | 11.91 | 149  | 1578932  | 49.682 | ng    | 99       |
| 75) Fluoranthene               | 12.57 | 202  | 1440017  | 46.430 | ng    | 99       |
| 77) Benzdine                   | 12.69 | 184  | 332135   | 17.484 | ng    | 95       |
| 78) Pyrene                     | 12.80 | 202  | 1463943  | 43.002 | ng    | 99       |
| 80) Butylbenzylphthalate       | 13.40 | 149  | 644562   | 44.982 | ng    | 99       |
| 81) Benzo(a)anthracene         | 13.99 | 228  | 1296063  | 47.351 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine     | 13.94 | 252  | 337555   | 31.790 | ng    | 99       |
| 83) Chrysene                   | 14.03 | 228  | 1253431  | 46.714 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 13.96 | 149  | 871775   | 46.518 | ng    | 99       |
| 85) Di-n-octyl phthalate       | 14.59 | 149  | 1534833  | 50.521 | ng    | 99       |
| 86) Indeno(1,2,3-cd)pyrene     | 16.97 | 276  | 1525100  | 64.313 | ng    | 100      |
| 88) Benzo(b)fluoranthene       | 15.06 | 252  | 1448284  | 43.101 | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 15.09 | 252  | 1330703  | 43.111 | ng    | 99       |
| 90) Benzo(a)pyrene             | 15.42 | 252  | 1399720  | 47.332 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 16.97 | 278  | 1274669  | 51.872 | ng    | 99       |
| 92) Benzo(g,h,i)perylene       | 17.40 | 276  | 1263769  | 51.318 | ng    | 99       |

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

