

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111116\  
 Data File : BF091142.D  
 Acq On : 11 Nov 2016 16:10  
 Operator : UM/SJ  
 Sample : PB94661BS  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94661BS

Manual Integrations  
 APPROVED

sohil  
 11/14/2016 6:36:54 PM

Quant Time: Nov 11 16:58:25 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 08 12:59:29 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.65  | 152  | 169151   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 7.93  | 136  | 680942   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.68  | 164  | 377411   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.16 | 188  | 619697   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.79 | 240  | 601542   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.15 | 264  | 422113   | 20.00 | ng    | -0.03    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.24  | 112 | 1105529 | 107.94 | ng | 0.00  |
| 7) Phenol-d6             | 6.30  | 99  | 1404712 | 101.05 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 7.22  | 82  | 1101222 | 88.22  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.48 | 330 | 480064  | 140.70 | ng | -0.01 |
| 44) 2-Fluorobiphenyl     | 9.01  | 172 | 1797020 | 81.97  | ng | -0.02 |
| 78) Terphenyl-d14        | 12.74 | 244 | 1847972 | 76.66  | ng | -0.02 |

## Target Compounds

|                                |      |     |         |       |    | Qvalue |
|--------------------------------|------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.20 | 88  | 174754  | 29.83 | ng | 98     |
| 3) Pyridine                    | 2.84 | 79  | 530356  | 38.70 | ng | 99     |
| 4) n-Nitrosodimethylamine      | 2.81 | 42  | 184447  | 34.02 | ng | 82     |
| 6) Aniline                     | 6.30 | 93  | 295654  | 18.03 | ng | # 64   |
| 8) 2-Chlorophenol              | 6.43 | 128 | 460285  | 37.68 | ng | 90     |
| 9) Benzaldehyde                | 6.19 | 77  | 52178   | 6.76  | ng | 98     |
| 10) Phenol                     | 6.32 | 94  | 598739  | 38.92 | ng | # 62   |
| 11) bis(2-Chloroethyl)ether    | 6.38 | 93  | 482364  | 37.21 | ng | 95     |
| 12) 1,3-Dichlorobenzene        | 6.58 | 146 | 475482  | 38.48 | ng | 97     |
| 13) 1,4-Dichlorobenzene        | 6.66 | 146 | 498337  | 37.59 | ng | 96     |
| 14) 1,2-Dichlorobenzene        | 6.81 | 146 | 475319  | 39.07 | ng | 96     |
| 15) Benzyl Alcohol             | 6.81 | 79  | 396652  | 40.45 | ng | # 88   |
| 16) 2,2'-oxybis(1-Chloropropan | 6.93 | 45  | 618959  | 33.34 | ng | 79     |
| 17) 2-Methylphenol             | 6.92 | 107 | 391685  | 40.50 | ng | 97     |
| 18) Hexachloroethane           | 7.15 | 117 | 195133  | 38.03 | ng | # 90   |
| 19) n-Nitroso-di-n-propylamine | 7.07 | 70  | 367798  | 38.18 | ng | 99     |
| 20) 3+4-Methylphenols          | 7.08 | 107 | 519326  | 44.72 | ng | 94     |
| 22) Acetophenone               | 7.06 | 105 | 691080  | 44.08 | ng | # 96   |
| 24) Nitrobenzene               | 7.23 | 77  | 528243  | 38.32 | ng | 93     |
| 25) Isophorone                 | 7.48 | 82  | 1014913 | 42.19 | ng | 96     |
| 26) 2-Nitrophenol              | 7.55 | 139 | 251896  | 43.18 | ng | 88     |
| 27) 2,4-Dimethylphenol         | 7.61 | 122 | 444193  | 46.04 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 7.70 | 93  | 624704  | 47.54 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 7.80 | 162 | 380100  | 45.14 | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 7.88 | 180 | 406962  | 42.98 | ng | 96     |
| 31) Naphthalene                | 7.95 | 128 | 1270706 | 39.02 | ng | 99     |
| 32) Benzoic acid               | 7.77 | 122 | 259589  | 35.91 | ng | 97     |
| 33) 4-Chloroaniline            | 8.02 | 127 | 136093  | 10.05 | ng | 98     |
| 34) Hexachlorobutadiene        | 8.08 | 225 | 239756  | 46.92 | ng | 98     |
| 35) Caprolactam                | 8.40 | 113 | 137290m | 51.90 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 8.51 | 107 | 404315  | 39.66 | ng | 91     |
| 37) 2-Methylnaphthalene        | 8.65 | 142 | 893537  | 42.68 | ng | 96     |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.82 | 216 | 402764  | 41.86 | ng | 98     |
| 40) Hexachlorocyclopentadiene  | 8.80 | 237 | 371683  | 97.91 | ng | 98     |

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|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 8.93  | 196  | 267658   | 43.09 | nq    | 99       |
| 43) 2,4,5-Trichlorophenol      | 8.98  | 196  | 281413   | 43.15 | nq    | # 92     |
| 45) 1,1'-Biphenyl              | 9.12  | 154  | 1030049  | 37.38 | nq    | 94       |
| 46) 2-Chloronaphthalene        | 9.13  | 162  | 810603   | 38.74 | nq    | 98       |
| 47) 2-Nitroaniline             | 9.24  | 65   | 282405   | 36.37 | nq    | # 78     |
| 48) Acenaphthylene             | 9.54  | 152  | 1309122  | 40.15 | nq    | 100      |
| 49) Dimethylphthalate          | 9.42  | 163  | 1040210  | 42.03 | nq    | 98       |
| 50) 2,6-Dinitrotoluene         | 9.48  | 165  | 226491   | 42.70 | nq    | # 74     |
| 51) Acenaphthene               | 9.71  | 154  | 774595   | 37.84 | nq    | 100      |
| 52) 3-Nitroaniline             | 9.65  | 138  | 112501   | 17.89 | nq    | 85       |
| 53) 2,4-Dinitrophenol          | 9.77  | 184  | 236252   | 81.64 | nq    | 98       |
| 54) Dibenzofuran               | 9.89  | 168  | 1219346  | 44.25 | nq    | 92       |
| 55) 4-Nitrophenol              | 9.84  | 139  | 267935   | 65.12 | nq    | 92       |
| 56) 2,4-Dinitrotoluene         | 9.89  | 165  | 315831   | 46.80 | nq    | # 89     |
| 57) Fluorene                   | 10.22 | 166  | 881097   | 39.12 | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.02 | 232  | 232273   | 45.46 | nq    | 97       |
| 59) Diethylphthalate           | 10.12 | 149  | 1121841  | 44.21 | nq    | 98       |
| 60) 4-Chlorophenyl-phenylether | 10.22 | 204  | 465011   | 45.36 | nq    | # 91     |
| 61) 4-Nitroaniline             | 10.27 | 138  | 247557   | 38.91 | nq    | 98       |
| 62) Azobenzene                 | 10.38 | 77   | 1259469  | 42.17 | nq    | 93       |
| 64) 4,6-Dinitro-2-methylphenol | 10.30 | 198  | 154982   | 40.84 | nq    | 100      |
| 65) n-Nitrosodiphenylamine     | 10.35 | 169  | 895125   | 45.45 | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.72 | 248  | 266940   | 41.41 | nq    | # 67     |
| 67) Hexachlorobenzene          | 10.77 | 284  | 289026   | 40.66 | nq    | 94       |
| 68) Atrazine                   | 10.89 | 200  | 280038   | 49.28 | nq    | 97       |
| 69) Pentachlorophenol          | 10.98 | 266  | 307294   | 97.59 | nq    | 100      |
| 70) Phenanthrene               | 11.18 | 178  | 1338536  | 40.63 | nq    | 99       |
| 71) Anthracene                 | 11.24 | 178  | 1362603  | 38.91 | nq    | 98       |
| 72) Carbazole                  | 11.40 | 167  | 1195583  | 37.88 | nq    | # 96     |
| 73) Di-n-butylphthalate        | 11.73 | 149  | 1576162  | 39.71 | nq    | 99       |
| 74) Fluoranthene               | 12.36 | 202  | 1410527  | 41.28 | nq    | 97       |
| 76) Benzidine                  | 12.50 | 184  | 393474   | 29.28 | nq    | 98       |
| 77) Pyrene                     | 12.59 | 202  | 1426643  | 36.21 | nq    | 99       |
| 79) Butylbenzylphthalate       | 13.22 | 149  | 710927   | 37.73 | nq    | 87       |
| 80) Benzo(a)anthracene         | 13.78 | 228  | 1393359  | 40.80 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 13.75 | 252  | 206475   | 17.21 | nq    | # 98     |
| 82) Chrysene                   | 13.81 | 228  | 1061744  | 31.53 | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 13.78 | 149  | 1016964  | 39.88 | nq    | # 99     |
| 84) Di-n-octyl phthalate       | 14.40 | 149  | 1877724  | 44.78 | nq    | # 94     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.43 | 276  | 945002   | 33.82 | nq    | 98       |
| 87) Benzo(b)fluoranthene       | 14.79 | 252  | 1329095m | 46.42 | nq    |          |
| 88) Benzo(k)fluoranthene       | 14.81 | 252  | 924713m  | 36.82 | nq    |          |
| 89) Benzo(a)pyrene             | 15.11 | 252  | 1006056  | 40.37 | nq    | 99       |
| 90) Dibenzo(a,h)anthracene     | 16.44 | 278  | 801947   | 37.22 | nq    | 98       |
| 91) Benzo(g,h,i)perylene       | 16.81 | 276  | 726004   | 37.26 | nq    | 98       |

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

