

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM091923\  
 Data File : BM041926.D  
 Acq On : 20 Sep 2023 05:17  
 Operator : MA/JU  
 Sample : 04432-01MS  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PILE-1MS

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/20/2023  
 Supervised By :mohammad ahmed 09/21/2023

Quant Time: Sep 20 06:10:13 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM091823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 19 04:49:34 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.963  | 152  | 309920   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.781 | 136  | 1263995  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.610 | 164  | 762053   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.362 | 188  | 1546030  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.533 | 240  | 1290614  | 20.000  | ng    | -0.01    |
| 86) Perylene-d12              | 23.944 | 264  | 1247829  | 20.000  | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.498  | 112  | 2027168  | 108.946 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.110  | 99   | 2697784  | 104.422 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.157  | 82   | 1638793  | 66.013  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.104 | 330  | 952396   | 100.167 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.227 | 172  | 3523634  | 67.868  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.968 | 244  | 5093596  | 71.880  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.410  | 88   | 306122   | 40.335  | ng    | 98       |
| 3) Pyridine                   | 3.816  | 79   | 847085   | 35.929  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.740  | 42   | 511076   | 45.604  | ng    | 99       |
| 6) Aniline                    | 7.298  | 93   | 1336563  | 39.049  | ng    | 99       |
| 8) 2-Chlorophenol             | 7.516  | 128  | 1059638  | 51.151  | ng    | 99       |
| 9) Benzaldehyde               | 7.122  | 77   | 347673   | 23.804  | ng    | 99       |
| 10) Phenol                    | 7.140  | 94   | 1388061  | 52.342  | ng    | 100      |
| 11) bis(2-Chloroethyl)ether   | 7.393  | 93   | 1022442  | 46.221  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 7.845  | 146  | 1065069  | 48.150  | ng    | 98       |
| 13) 1,4-Dichlorobenzene       | 7.998  | 146  | 1091967  | 48.584  | ng    | 100      |
| 14) 1,2-Dichlorobenzene       | 8.310  | 146  | 1050177  | 48.610  | ng    | 99       |
| 15) Benzyl Alcohol            | 8.216  | 79   | 989252   | 48.501  | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.487  | 45   | 1563374  | 46.212  | ng    | 98       |
| 17) 2-Methylphenol            | 8.392  | 107  | 909512   | 47.166  | ng    | 99       |
| 18) Hexachloroethane          | 9.028  | 117  | 401826   | 47.564  | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 8.775  | 70   | 855211   | 44.531  | ng    | 98       |
| 20) 3+4-Methylphenols         | 8.728  | 107  | 1226884  | 46.353  | ng    | 99       |
| 22) Acetophenone              | 8.804  | 105  | 1550868  | 49.081  | ng    | # 100    |
| 24) Nitrobenzene              | 9.198  | 77   | 1209031  | 49.066  | ng    | 100      |
| 25) Isophorone                | 9.710  | 82   | 2306814  | 47.079  | ng    | 100      |
| 26) 2-Nitrophenol             | 9.898  | 139  | 567565   | 51.140  | ng    | 100      |
| 27) 2,4-Dimethylphenol        | 9.934  | 122  | 929335   | 46.561  | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 10.192 | 93   | 1402969  | 48.990  | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 10.416 | 162  | 1030604  | 53.355  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 10.628 | 180  | 1010027  | 50.930  | ng    | 98       |
| 31) Naphthalene               | 10.833 | 128  | 3079294  | 48.391  | ng    | 100      |
| 32) Benzoic acid              | 10.086 | 122  | 763497   | 48.549  | ng    | 98       |
| 33) 4-Chloroaniline           | 10.957 | 127  | 869861   | 30.542  | ng    | 99       |
| 34) Hexachlorobutadiene       | 11.057 | 225  | 588665   | 48.597  | ng    | 100      |
| 35) Caprolactam               | 11.798 | 113  | 328652m  | 47.606  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 12.057 | 107  | 1083477  | 50.332  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 12.433 | 142  | 2130391  | 45.533  | ng    | 100      |
| 38) 1-Methylnaphthalene       | 12.657 | 142  | 2082282  | 47.387  | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 12.786 | 216  | 1098948  | 49.726  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.733 | 237  | 1300646  | 104.666 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 13.033 | 196  | 791102   | 52.599  | ng    | 100      |

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| 44) 2,4,5-Trichlorophenol     | 13.104 | 196  | 853119   | 48.467  | ng    | 99       |
| 46) 1,1'-Biphenyl             | 13.445 | 154  | 2832065  | 50.370  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.492 | 162  | 2153239  | 52.587  | ng    | 100      |
| 48) 2-Nitroaniline            | 13.722 | 65   | 734733   | 50.217  | ng    | 99       |
| 49) Acenaphthylene            | 14.339 | 152  | 3572071  | 52.567  | ng    | 100      |
| 50) Dimethylphthalate         | 14.069 | 163  | 2736693  | 48.577  | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.210 | 165  | 598784   | 50.154  | ng    | 99       |
| 52) Acenaphthene              | 14.674 | 154  | 2010389  | 49.188  | ng    | 99       |
| 53) 3-Nitroaniline            | 14.551 | 138  | 510334   | 38.190  | ng    | 100      |
| 54) 2,4-Dinitrophenol         | 14.751 | 184  | 693425   | 92.997  | ng    | 98       |
| 55) Dibenzofuran              | 15.010 | 168  | 3215048  | 48.731  | ng    | 100      |
| 56) 4-Nitrophenol             | 14.839 | 139  | 1070551  | 101.013 | ng    | 98       |
| 57) 2,4-Dinitrotoluene        | 14.992 | 165  | 789284   | 49.968  | ng    | 98       |
| 58) Fluorene                  | 15.657 | 166  | 2530062  | 48.643  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.221 | 232  | 710965   | 49.210  | ng    | 99       |
| 60) Diethylphthalate          | 15.421 | 149  | 2654127  | 47.360  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.645 | 204  | 1326110  | 48.598  | ng    | 99       |
| 62) 4-Nitroaniline            | 15.721 | 138  | 593380   | 46.177  | ng    | 100      |
| 63) Azobenzene                | 15.939 | 77   | 2765262  | 48.673  | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.745 | 198  | 419617   | 47.266  | ng    | 98       |
| 66) n-Nitrosodiphenylamine    | 15.874 | 169  | 2230986  | 51.094  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.545 | 248  | 797906   | 50.082  | ng    | 99       |
| 68) Hexachlorobenzene         | 16.627 | 284  | 902584   | 53.508  | ng    | 97       |
| 69) Atrazine                  | 16.815 | 200  | 784495   | 57.614  | ng    | 99       |
| 70) Pentachlorophenol         | 16.986 | 266  | 1204394  | 94.500  | ng    | 99       |
| 71) Phenanthrene              | 17.404 | 178  | 3934980  | 51.034  | ng    | 100      |
| 72) Anthracene                | 17.498 | 178  | 3957981  | 50.320  | ng    | 100      |
| 73) Carbazole                 | 17.780 | 167  | 3678098  | 50.998  | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.298 | 149  | 4691430  | 50.668  | ng    | 100      |
| 75) Fluoranthene              | 19.415 | 202  | 4505496  | 49.773  | ng    | 100      |
| 77) Benzidine                 | 19.615 | 184  | 2113708  | 80.235  | ng    | 100      |
| 78) Pyrene                    | 19.780 | 202  | 4630714  | 51.565  | ng    | 100      |
| 80) Butylbenzylphthalate      | 20.650 | 149  | 2038240  | 51.031  | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.515 | 228  | 4216701  | 50.095  | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 21.456 | 252  | 1366011  | 46.081  | ng    | 100      |
| 83) Chrysene                  | 21.574 | 228  | 3801832  | 48.187  | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 21.397 | 149  | 3003763  | 50.694  | ng    | 100      |
| 85) Di-n-octyl phthalate      | 22.321 | 149  | 5077258  | 50.905  | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 26.456 | 276  | 3822737  | 51.309  | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 23.203 | 252  | 3769358  | 51.740  | ng    | 100      |
| 89) Benzo(k)fluoranthene      | 23.256 | 252  | 3622722  | 50.322  | ng    | 100      |
| 90) Benzo(a)pyrene            | 23.844 | 252  | 3224660  | 47.172  | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 26.474 | 278  | 3219777  | 51.838  | ng    | 100      |
| 92) Benzo(g,h,i)perylene      | 27.238 | 276  | 3005653  | 50.646  | ng    | 98       |

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

