

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM122121\  
 Data File : BM033562.D  
 Acq On : 21 Dec 2021 20:02  
 Operator : CG/JU  
 Sample : M5182-07MSD  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 HB-2-(20-25)-12-17-21MSD

Quant Time: Dec 22 03:39:35 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM122121.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 21 16:25:49 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh  
 Patel  
 12/31/2021

Supervised By :mohammad  
 ahmed  
 12/31/2021

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.907  | 152  | 29619    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.719 | 136  | 126215   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.560 | 164  | 83875    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.307 | 188  | 165627   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.483 | 240  | 122896   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.877 | 264  | 125545   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.478  | 112  | 224689   | 130.573 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.084  | 99   | 299668   | 124.388 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.084  | 82   | 233515   | 76.847  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.048 | 330  | 111436   | 107.898 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.183 | 172  | 457507   | 76.904  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.924 | 244  | 509042   | 68.897  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.360  | 88   | 28030    | 39.030  | ng    | # 94     |
| 3) Pyridine                   | 3.772  | 79   | 73011    | 40.251  | ng    | # 89     |
| 4) n-Nitrosodimethylamine     | 3.678  | 42   | 66771    | 49.299  | ng    | # 85     |
| 6) Aniline                    | 7.242  | 93   | 86179    | 31.340  | ng    | 98       |
| 8) 2-Chlorophenol             | 7.472  | 128  | 99554    | 52.496  | ng    | 98       |
| 9) Benzaldehyde               | 7.054  | 77   | 78194m   | 56.999  | ng    |          |
| 10) Phenol                    | 7.107  | 94   | 133431   | 55.792  | ng    | 85       |
| 11) bis(2-Chloroethyl)ether   | 7.337  | 93   | 91763    | 50.323  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 7.795  | 146  | 109768   | 49.065  | ng    | 96       |
| 13) 1,4-Dichlorobenzene       | 7.942  | 146  | 113530   | 49.919  | ng    | 97       |
| 14) 1,2-Dichlorobenzene       | 8.260  | 146  | 108383   | 48.440  | ng    | 99       |
| 15) Benzyl Alcohol            | 8.160  | 79   | 112050m  | 49.377  | ng    |          |
| 16) 2,2'-oxybis(1-Chloropr... | 8.442  | 45   | 160705   | 49.861  | ng    | 98       |
| 17) 2-Methylphenol            | 8.366  | 107  | 92197    | 53.021  | ng    | 94       |
| 18) Hexachloroethane          | 8.989  | 117  | 47795    | 51.379  | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 8.725  | 70   | 92551    | 49.319  | ng    | 92       |
| 20) 3+4-Methylphenols         | 8.695  | 107  | 121211   | 50.843  | ng    | 92       |
| 22) Acetophenone              | 8.742  | 105  | 169746   | 49.095  | ng    | # 90     |
| 24) Nitrobenzene              | 9.125  | 77   | 144845   | 49.873  | ng    | 98       |
| 25) Isophorone                | 9.654  | 82   | 237380   | 49.566  | ng    | 98       |
| 26) 2-Nitrophenol             | 9.831  | 139  | 57020    | 51.397  | ng    | # 90     |
| 27) 2,4-Dimethylphenol        | 9.895  | 122  | 98281    | 57.380  | ng    | 94       |
| 28) bis(2-Chloroethoxy)met... | 10.136 | 93   | 130260   | 48.537  | ng    | 97       |
| 29) 2,4-Dichlorophenol        | 10.372 | 162  | 103905   | 52.044  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 10.578 | 180  | 113024   | 48.042  | ng    | 97       |
| 31) Naphthalene               | 10.766 | 128  | 326834   | 48.242  | ng    | 99       |
| 32) Benzoic acid              | 10.066 | 122  | 65917    | 47.244  | ng    | 96       |
| 33) 4-Chloroaniline           | 10.895 | 127  | 24650    | 9.574   | ng    | 95       |
| 34) Hexachlorobutadiene       | 11.048 | 225  | 75994    | 46.969  | ng    | 98       |
| 35) Caprolactam               | 11.695 | 113  | 30651    | 73.361  | ng    | 97       |
| 36) 4-Chloro-3-methylphenol   | 12.019 | 107  | 122049   | 47.495  | ng    | 100      |
| 37) 2-Methylnaphthalene       | 12.383 | 142  | 244235   | 50.321  | ng    | 95       |
| 38) 1-Methylnaphthalene       | 12.601 | 142  | 224993   | 46.387  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.748 | 216  | 130444   | 54.127  | ng    | # 97     |
| 41) Hexachlorocyclopentadiene | 12.719 | 237  | 174336   | 130.154 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 12.995 | 196  | 86300    | 50.882  | ng    | 93       |

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|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.066 | 196  | 90132    | 50.057  | ng    | 96       |
| 46) 1,1'-Biphenyl             | 13.395 | 154  | 322592   | 52.413  | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.436 | 162  | 243390   | 50.974  | ng    | 99       |
| 48) 2-Nitroaniline            | 13.648 | 65   | 91981    | 50.427  | ng    | 92       |
| 49) Acenaphthylene            | 14.283 | 152  | 387926   | 50.727  | ng    | 99       |
| 50) Dimethylphthalate         | 14.024 | 163  | 306045   | 47.334  | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.142 | 165  | 63547    | 49.235  | ng    | # 77     |
| 52) Acenaphthene              | 14.624 | 154  | 230471   | 50.166  | ng    | 99       |
| 53) 3-Nitroaniline            | 14.477 | 138  | 27257    | 21.505  | ng    | 95       |
| 54) 2,4-Dinitrophenol         | 14.683 | 184  | 73766    | 91.833  | ng    | # 84     |
| 55) Dibenzofuran              | 14.954 | 168  | 377328   | 47.964  | ng    | 94       |
| 56) 4-Nitrophenol             | 14.789 | 139  | 96474    | 98.597  | ng    | # 76     |
| 57) 2,4-Dinitrotoluene        | 14.930 | 165  | 89399    | 49.623  | ng    | 91       |
| 58) Fluorene                  | 15.607 | 166  | 298428   | 47.058  | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 15.183 | 232  | 76814    | 46.475  | ng    | # 95     |
| 60) Diethylphthalate          | 15.383 | 149  | 325370   | 46.640  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.601 | 204  | 154907   | 46.338  | ng    | 93       |
| 62) 4-Nitroaniline            | 15.642 | 138  | 55437    | 42.447  | ng    | # 74     |
| 63) Azobenzene                | 15.895 | 77   | 356612   | 46.322  | ng    | 93       |
| 65) 4,6-Dinitro-2-methylph... | 15.689 | 198  | 46355    | 41.936  | ng    | 97       |
| 66) n-Nitrosodiphenylamine    | 15.818 | 169  | 255408   | 51.992  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.495 | 248  | 88443    | 49.477  | ng    | # 91     |
| 68) Hexachlorobenzene         | 16.607 | 284  | 97663    | 50.647  | ng    | 97       |
| 69) Atrazine                  | 16.771 | 200  | 88395    | 80.113  | ng    | 99       |
| 70) Pentachlorophenol         | 16.954 | 266  | 120320   | 102.198 | ng    | 98       |
| 71) Phenanthrene              | 17.348 | 178  | 447948   | 49.022  | ng    | 99       |
| 72) Anthracene                | 17.436 | 178  | 453458   | 50.452  | ng    | 98       |
| 73) Carbazole                 | 17.712 | 167  | 384893   | 44.634  | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.271 | 149  | 516598   | 48.406  | ng    | 99       |
| 75) Fluoranthene              | 19.359 | 202  | 472121   | 45.171  | ng    | 98       |
| 77) Benzidine                 | 19.553 | 184  | 222430   | 164.041 | ng    | 99       |
| 78) Pyrene                    | 19.724 | 202  | 471806   | 51.683  | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.618 | 149  | 200461   | 50.343  | ng    | 96       |
| 81) Benzo(a)anthracene        | 21.465 | 228  | 398263   | 47.567  | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.400 | 252  | 104018   | 27.660  | ng    | 96       |
| 83) Chrysene                  | 21.518 | 228  | 385185   | 47.970  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.389 | 149  | 277170   | 50.462  | ng    | 100      |
| 85) Di-n-octyl phthalate      | 22.318 | 149  | 455286   | 50.691  | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 26.377 | 276  | 458132   | 51.524  | ng    | # 94     |
| 88) Benzo(b)fluoranthene      | 23.147 | 252  | 396596m  | 49.320  | ng    |          |
| 89) Benzo(k)fluoranthene      | 23.200 | 252  | 392686   | 48.998  | ng    | # 97     |
| 90) Benzo(a)pyrene            | 23.777 | 252  | 393762   | 58.164  | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 26.388 | 278  | 393882   | 52.472  | ng    | 96       |
| 92) Benzo(g,h,i)perylene      | 27.135 | 276  | 391982   | 53.025  | ng    | # 95     |

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

