

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120324\  
 Data File : BF140715.D  
 Acq On : 03 Dec 2024 17:08  
 Operator : RC/JU  
 Sample : P5052-19MSD  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-640-COMP-63MSD

Quant Time: Dec 03 17:29:25 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112124.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 21 15:23:48 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/03/2024  
 Supervised By :mohammad ahmed 12/05/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.869  | 152  | 77448    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.151  | 136  | 291501   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.910  | 164  | 161248   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.398 | 188  | 295257   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.063 | 240  | 146649   | 20.000  | ng    | 0.01     |
| 86) Perylene-d12              | 15.586 | 264  | 156187   | 20.000  | ng    | 0.05     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.504  | 112  | 393083   | 86.598  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.510  | 99   | 512791   | 85.452  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 335398   | 58.853  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.704 | 330  | 154090   | 89.350  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.222  | 172  | 675051   | 62.375  | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.980 | 244  | 656802   | 69.740  | ng    | -0.01    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.699  | 88   | 84548    | 44.301  | ng    | 98       |
| 3) Pyridine                   | 3.469  | 79   | 198354   | 47.237  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.422  | 42   | 113158   | 45.851  | ng    | 93       |
| 6) Aniline                    | 6.534  | 93   | 233942   | 55.387  | ng    | 89       |
| 8) 2-Chlorophenol             | 6.663  | 128  | 250321   | 51.259  | ng    | 95       |
| 9) Benzaldehyde               | 6.422  | 77   | 84345    | 26.550  | ng    | 99       |
| 10) Phenol                    | 6.528  | 94   | 317265   | 51.769  | ng    | 97       |
| 11) bis(2-Chloroethyl)ether   | 6.604  | 93   | 230628   | 49.178  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.810  | 146  | 262940   | 47.918  | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.887  | 146  | 266943   | 48.045  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.040  | 146  | 252732   | 48.544  | ng    | 99       |
| 15) Benzyl Alcohol            | 7.016  | 79   | 230760   | 51.853  | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.140  | 45   | 283278   | 51.131  | ng    | 85       |
| 17) 2-Methylphenol            | 7.134  | 107  | 191772   | 49.057  | ng    | 96       |
| 18) Hexachloroethane          | 7.381  | 117  | 99875    | 48.129  | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 7.281  | 70   | 178079   | 50.212  | ng    | 98       |
| 20) 3+4-Methylphenols         | 7.287  | 107  | 254766   | 50.703  | ng    | # 90     |
| 22) Acetophenone              | 7.281  | 105  | 341626   | 48.071  | ng    | 98       |
| 24) Nitrobenzene              | 7.451  | 77   | 273432   | 46.423  | ng    | 99       |
| 25) Isophorone                | 7.692  | 82   | 482785   | 50.791  | ng    | 100      |
| 26) 2-Nitrophenol             | 7.769  | 139  | 131975   | 50.562  | ng    | 99       |
| 27) 2,4-Dimethylphenol        | 7.810  | 122  | 199173m  | 63.776  | ng    |          |
| 28) bis(2-Chloroethoxy)met... | 7.898  | 93   | 289824   | 50.050  | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 8.016  | 162  | 208149   | 50.299  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 8.092  | 180  | 221133   | 46.801  | ng    | 99       |
| 31) Naphthalene               | 8.175  | 128  | 726269   | 48.370  | ng    | 99       |
| 32) Benzoic acid              | 7.951  | 122  | 114785   | 43.100  | ng    | 95       |
| 33) 4-Chloroaniline           | 8.228  | 127  | 105728   | 23.519  | ng    | 98       |
| 34) Hexachlorobutadiene       | 8.287  | 225  | 154136   | 49.251  | ng    | 99       |
| 35) Caprolactam               | 8.604  | 113  | 63867m   | 49.870  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 8.716  | 107  | 229288   | 49.487  | ng    | 99       |
| 37) 2-Methylnaphthalene       | 8.863  | 142  | 478569   | 50.181  | ng    | 100      |
| 38) 1-Methylnaphthalene       | 8.963  | 142  | 441368   | 47.215  | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 9.034  | 216  | 239347   | 50.703  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.016  | 237  | 174818   | 157.031 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 9.151  | 196  | 147791   | 49.894  | ng    | 99       |

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Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 12/03/2024  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.198  | 196  | 155731   | 48.443 | ng    | 97       |
| 46) 1,1'-Biphenyl             | 9.328  | 154  | 604766   | 50.234 | ng    | 100      |
| 47) 2-Chloronaphthalene       | 9.357  | 162  | 445685   | 48.857 | ng    | 98       |
| 48) 2-Nitroaniline            | 9.457  | 65   | 142177   | 48.557 | ng    | 97       |
| 49) Acenaphthylene            | 9.769  | 152  | 717496   | 52.057 | ng    | 99       |
| 50) Dimethylphthalate         | 9.628  | 163  | 555924   | 52.348 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.698  | 165  | 116382   | 48.322 | ng    | 96       |
| 52) Acenaphthene              | 9.945  | 154  | 442073   | 50.479 | ng    | 100      |
| 53) 3-Nitroaniline            | 9.869  | 138  | 84131    | 35.715 | ng    | 97       |
| 54) 2,4-Dinitrophenol         | 9.986  | 184  | 115359   | 91.261 | ng    | 96       |
| 55) Dibenzofuran              | 10.116 | 168  | 668951   | 50.078 | ng    | 99       |
| 56) 4-Nitrophenol             | 10.051 | 139  | 141182   | 87.880 | ng    | 95       |
| 57) 2,4-Dinitrotoluene        | 10.104 | 165  | 157534   | 49.215 | ng    | 97       |
| 58) Fluorene                  | 10.463 | 166  | 528346   | 49.276 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232  | 132785   | 53.745 | ng    | 94       |
| 60) Diethylphthalate          | 10.328 | 149  | 565927   | 52.450 | ng    | 100      |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204  | 268668   | 51.058 | ng    | 99       |
| 62) 4-Nitroaniline            | 10.492 | 138  | 115157   | 46.611 | ng    | 96       |
| 63) Azobenzene                | 10.610 | 77   | 580155   | 56.778 | ng    | 97       |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198  | 88763    | 58.831 | ng    | 93       |
| 66) n-Nitrosodiphenylamine    | 10.569 | 169  | 465888   | 53.357 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.939 | 248  | 158348   | 52.076 | ng    | 98       |
| 68) Hexachlorobenzene         | 11.010 | 284  | 177367   | 50.376 | ng    | 99       |
| 69) Atrazine                  | 11.098 | 200  | 155145   | 63.161 | ng    | 100      |
| 70) Pentachlorophenol         | 11.210 | 266  | 150651   | 97.219 | ng    | 99       |
| 71) Phenanthrene              | 11.428 | 178  | 725957   | 51.150 | ng    | 100      |
| 72) Anthracene                | 11.480 | 178  | 754191   | 54.324 | ng    | 100      |
| 73) Carbazole                 | 11.633 | 167  | 659921   | 49.411 | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.957 | 149  | 846424   | 54.894 | ng    | 99       |
| 75) Fluoranthene              | 12.616 | 202  | 726057   | 47.117 | ng    | 99       |
| 77) Benzidine                 | 12.739 | 184  | 236835   | 55.546 | ng    | 99       |
| 78) Pyrene                    | 12.845 | 202  | 717414   | 52.908 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.457 | 149  | 300490   | 61.517 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.051 | 228  | 517973   | 53.358 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 119940   | 41.152 | ng    | 100      |
| 83) Chrysene                  | 14.092 | 228  | 440371   | 49.611 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 14.027 | 149  | 386780   | 62.708 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 14.674 | 149  | 543731   | 64.505 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.121 | 276  | 583547   | 57.331 | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 15.151 | 252  | 469453   | 47.853 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.180 | 252  | 420550   | 48.987 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.527 | 252  | 438306   | 54.949 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 17.127 | 278  | 480198   | 57.606 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.574 | 276  | 441581   | 51.913 | ng    | 99       |

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

