

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF103123\  
 Data File : BF136060.D  
 Acq On : 31 Oct 2023 19:39  
 Operator : CG\JU  
 Sample : 04974-01MSD  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4MSD

Quant Time: Nov 01 00:36:37 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 31 01:13:02 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/01/2023  
 Supervised By :mohammad ahmed 11/01/2023

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| Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------|--------|------|----------|--------|-------|----------|
| -----                     |        |      |          |        |       |          |
| Internal Standards        |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4 | 6.828  | 152  | 130089   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.104  | 136  | 456683   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.863  | 164  | 193908   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.357 | 188  | 338480   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.016 | 240  | 292805   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12          | 15.504 | 264  | 256415   | 20.000 | ng    | 0.00     |

|                             |        |     |         |         |    |      |
|-----------------------------|--------|-----|---------|---------|----|------|
| System Monitoring Compounds |        |     |         |         |    |      |
| 5) 2-Fluorophenol           | 5.463  | 112 | 863277  | 104.279 | ng | 0.01 |
| 7) Phenol-d6                | 6.463  | 99  | 1010093 | 97.929  | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.387  | 82  | 591952  | 78.138  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 10.657 | 330 | 221040  | 106.797 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 9.186  | 172 | 965333  | 79.359  | ng | 0.00 |
| 79) Terphenyl-d14           | 12.957 | 244 | 1084281 | 57.547  | ng | 0.00 |

|                               |       |     |         |        |    |        |
|-------------------------------|-------|-----|---------|--------|----|--------|
| Target Compounds              |       |     |         |        |    | Qvalue |
| 2) 1,4-Dioxane                | 2.663 | 88  | 159623  | 44.280 | ng | 99     |
| 3) Pyridine                   | 3.416 | 79  | 377404  | 38.356 | ng | 100    |
| 4) n-Nitrosodimethylamine     | 3.381 | 42  | 191091  | 46.450 | ng | 98     |
| 6) Aniline                    | 6.504 | 93  | 403173  | 30.191 | ng | 97     |
| 8) 2-Chlorophenol             | 6.610 | 128 | 398334  | 45.006 | ng | 100    |
| 9) Benzaldehyde               | 6.375 | 77  | 135215  | 23.510 | ng | 97     |
| 10) Phenol                    | 6.475 | 94  | 465829m | 43.664 | ng |        |
| 11) bis(2-Chloroethyl)ether   | 6.563 | 93  | 392023  | 46.938 | ng | 97     |
| 12) 1,3-Dichlorobenzene       | 6.769 | 146 | 427200  | 46.376 | ng | 99     |
| 13) 1,4-Dichlorobenzene       | 6.845 | 146 | 436600  | 47.294 | ng | 99     |
| 14) 1,2-Dichlorobenzene       | 6.992 | 146 | 408341  | 47.305 | ng | 98     |
| 15) Benzyl Alcohol            | 6.969 | 79  | 314127  | 42.951 | ng | 100    |
| 16) 2,2'-oxybis(1-Chloropr... | 7.104 | 45  | 514575  | 44.762 | ng | 99     |
| 17) 2-Methylphenol            | 7.081 | 107 | 293794  | 39.129 | ng | 98     |
| 18) Hexachloroethane          | 7.334 | 117 | 138515  | 42.690 | ng | 98     |
| 19) n-Nitroso-di-n-propyla... | 7.239 | 70  | 243379  | 41.296 | ng | 97     |
| 20) 3+4-Methylphenols         | 7.234 | 107 | 355882  | 38.870 | ng | 94     |
| 22) Acetophenone              | 7.234 | 105 | 501949  | 49.567 | ng | # 90   |
| 24) Nitrobenzene              | 7.410 | 77  | 367122  | 47.908 | ng | 99     |
| 25) Isophorone                | 7.645 | 82  | 649168  | 45.390 | ng | 100    |
| 26) 2-Nitrophenol             | 7.722 | 139 | 183392  | 52.454 | ng | 98     |
| 27) 2,4-Dimethylphenol        | 7.757 | 122 | 262072  | 39.668 | ng | 98     |
| 28) bis(2-Chloroethoxy)met... | 7.857 | 93  | 415862  | 47.456 | ng | 99     |
| 29) 2,4-Dichlorophenol        | 7.963 | 162 | 285586  | 45.853 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene    | 8.045 | 180 | 324149  | 47.708 | ng | 99     |
| 31) Naphthalene               | 8.128 | 128 | 1021879 | 46.402 | ng | 100    |
| 32) Benzoic acid              | 7.869 | 122 | 204237  | 39.592 | ng | 99     |
| 33) 4-Chloroaniline           | 8.181 | 127 | 236635  | 24.536 | ng | 96     |
| 34) Hexachlorobutadiene       | 8.245 | 225 | 187963  | 48.239 | ng | 99     |
| 35) Caprolactam               | 8.539 | 113 | 88339m  | 43.620 | ng |        |
| 36) 4-Chloro-3-methylphenol   | 8.657 | 107 | 274373  | 41.961 | ng | 99     |
| 37) 2-Methylnaphthalene       | 8.822 | 142 | 612209  | 41.460 | ng | 98     |
| 38) 1-Methylnaphthalene       | 8.922 | 142 | 578479  | 42.097 | ng | 98     |
| 40) 1,2,4,5-Tetrachloroben... | 8.986 | 216 | 289124  | 52.282 | ng | 99     |
| 41) Hexachlorocyclopentadiene | 8.975 | 237 | 76252   | 25.809 | ng | 99     |
| 43) 2,4,6-Trichlorophenol     | 9.098 | 196 | 178164  | 49.412 | ng | 99     |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |            |
|-------------------------------|--------|------|----------|--------|-------|----------|------------|
| 44) 2,4,5-Trichlorophenol     | 9.139  | 196  | 187215   | 44.823 | ng    | 100      | 11/01/2023 |
| 46) 1,1'-Biphenyl             | 9.286  | 154  | 754733   | 51.058 | ng    | 99       |            |
| 47) 2-Chloronaphthalene       | 9.310  | 162  | 550002   | 50.472 | ng    | 99       |            |
| 48) 2-Nitroaniline            | 9.404  | 65   | 159695   | 49.518 | ng    | 99       |            |
| 49) Acenaphthylene            | 9.728  | 152  | 840360   | 49.433 | ng    | 99       |            |
| 50) Dimethylphthalate         | 9.586  | 163  | 630738   | 49.313 | ng    | 99       |            |
| 51) 2,6-Dinitrotoluene        | 9.651  | 165  | 134520   | 49.174 | ng    | 94       |            |
| 52) Acenaphthene              | 9.898  | 154  | 518241m  | 47.954 | ng    |          |            |
| 53) 3-Nitroaniline            | 9.816  | 138  | 131387   | 41.162 | ng    | 94       |            |
| 54) 2,4-Dinitrophenol         | 9.922  | 184  | 51622    | 39.323 | ng    | 96       |            |
| 55) Dibenzofuran              | 10.069 | 168  | 748819   | 47.519 | ng    | 96       |            |
| 56) 4-Nitrophenol             | 9.975  | 139  | 232200   | 97.251 | ng    | 86       |            |
| 57) 2,4-Dinitrotoluene        | 10.051 | 165  | 165327   | 47.766 | ng    | 98       |            |
| 58) Fluorene                  | 10.416 | 166  | 556371   | 47.156 | ng    | 98       |            |
| 59) 2,3,4,6-Tetrachlorophenol | 10.186 | 232  | 146002   | 43.968 | ng    | # 99     |            |
| 60) Diethylphthalate          | 10.292 | 149  | 569929   | 46.636 | ng    | 100      |            |
| 61) 4-Chlorophenyl-phenyle... | 10.410 | 204  | 266428   | 45.238 | ng    | 98       |            |
| 62) 4-Nitroaniline            | 10.428 | 138  | 126545   | 41.171 | ng    | 98       |            |
| 63) Azobenzene                | 10.569 | 77   | 520981   | 44.265 | ng    | 99       |            |
| 65) 4,6-Dinitro-2-methylph... | 10.457 | 198  | 40044    | 24.724 | ng    | 78       |            |
| 66) n-Nitrosodiphenylamine    | 10.528 | 169  | 485148   | 47.514 | ng    | 99       |            |
| 67) 4-Bromophenyl-phenylether | 10.904 | 248  | 169338   | 47.718 | ng    | 98       |            |
| 68) Hexachlorobenzene         | 10.963 | 284  | 189890   | 50.102 | ng    | # 95     |            |
| 69) Atrazine                  | 11.063 | 200  | 162221   | 58.392 | ng    | 100      |            |
| 70) Pentachlorophenol         | 11.157 | 266  | 221282   | 90.910 | ng    | 97       |            |
| 71) Phenanthrene              | 11.380 | 178  | 1118367  | 65.622 | ng    | 100      |            |
| 72) Anthracene                | 11.433 | 178  | 908852   | 52.043 | ng    | 99       |            |
| 73) Carbazole                 | 11.592 | 167  | 790784   | 52.109 | ng    | 100      |            |
| 74) Di-n-butylphthalate       | 11.927 | 149  | 867014   | 49.999 | ng    | 99       |            |
| 75) Fluoranthene              | 12.580 | 202  | 1365633  | 78.001 | ng    | 99       |            |
| 77) Benzidine                 | 12.704 | 184  | 440142   | 77.123 | ng    | 99       |            |
| 78) Pyrene                    | 12.810 | 202  | 1339352  | 51.882 | ng    | 100      |            |
| 80) Butylbenzylphthalate      | 13.439 | 149  | 396201   | 42.876 | ng    | 98       |            |
| 81) Benzo(a)anthracene        | 14.010 | 228  | 1082241  | 55.830 | ng    | 99       |            |
| 82) 3,3'-Dichlorobenzidine    | 13.974 | 252  | 343424   | 55.508 | ng    | 99       |            |
| 83) Chrysene                  | 14.045 | 228  | 1046651  | 54.826 | ng    | 99       |            |
| 84) Bis(2-ethylhexyl)phtha... | 14.010 | 149  | 496242   | 46.094 | ng    | 100      |            |
| 85) Di-n-octyl phthalate      | 14.627 | 149  | 986686   | 61.179 | ng    | 100      |            |
| 87) Indeno(1,2,3-cd)pyrene    | 17.027 | 276  | 677152   | 40.407 | ng    | 99       |            |
| 88) Benzo(b)fluoranthene      | 15.068 | 252  | 971568   | 64.035 | ng    | 99       |            |
| 89) Benzo(k)fluoranthene      | 15.104 | 252  | 767589   | 51.130 | ng    | 99       |            |
| 90) Benzo(a)pyrene            | 15.445 | 252  | 732082   | 51.930 | ng    | 99       |            |
| 91) Dibenzo(a,h)anthracene    | 17.051 | 278  | 524817   | 38.232 | ng    | 99       |            |
| 92) Benzo(g,h,i)perylene      | 17.486 | 276  | 541798   | 35.471 | ng    | 99       |            |

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

