

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP092324\  
 Data File : BP021981.D  
 Acq On : 23 Sep 2024 13:51  
 Operator : RC/JU  
 Sample : P2403-09  
 Misc : MDL-MDL-WATER-8 PPM  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 MDL-WATER-03-QT2-2024

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/25/2024  
 Supervised By :mohammad ahmed 09/25/2024

Quant Time: Sep 23 14:16:46 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP091924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 20 01:22:00 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.710  | 152  | 113061   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.475 | 136  | 444284   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.322 | 164  | 320524   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.116 | 188  | 791065   | 20.000  | ng    | -0.02    |
| 76) Chrysene-d12              | 21.551 | 240  | 972704   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12              | 24.845 | 264  | 1140585  | 20.000  | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.334  | 112  | 740678   | 123.114 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.899  | 99   | 969438   | 124.126 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.857  | 82   | 756106   | 90.051  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.834 | 330  | 789902   | 132.932 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 12.940 | 172  | 1967484  | 89.605  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.845 | 244  | 4022556  | 77.683  | ng    | -0.01    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.258  | 88   | 21076    | 8.437   | ng    | 100      |
| 3) Pyridine                   | 3.664  | 79   | 46403    | 6.965   | ng    | 96       |
| 4) n-Nitrosodimethylamine     | 3.564  | 42   | 28344    | 8.065   | ng    | # 98     |
| 6) Aniline                    | 7.052  | 93   | 68813    | 10.027  | ng    | 99       |
| 8) 2-Chlorophenol             | 7.287  | 128  | 55158    | 8.574   | ng    | 93       |
| 9) Benzaldehyde               | 6.863  | 77   | 51060m   | 12.503  | ng    |          |
| 10) Phenol                    | 6.922  | 94   | 65073    | 8.389   | ng    | 99       |
| 11) bis(2-Chloroethyl)ether   | 7.146  | 93   | 52264    | 8.944   | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 7.605  | 146  | 67280    | 8.284   | ng    | 98       |
| 13) 1,4-Dichlorobenzene       | 7.746  | 146  | 69048    | 8.383   | ng    | 96       |
| 14) 1,2-Dichlorobenzene       | 8.057  | 146  | 65987    | 8.347   | ng    | 95       |
| 15) Benzyl Alcohol            | 7.952  | 79   | 50970    | 8.510   | ng    | 95       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.222  | 45   | 60404    | 9.692   | ng    | 94       |
| 17) 2-Methylphenol            | 8.152  | 107  | 42819    | 8.171   | ng    | 97       |
| 18) Hexachloroethane          | 8.781  | 117  | 25316    | 8.359   | ng    | 94       |
| 19) n-Nitroso-di-n-propyla... | 8.510  | 70   | 43449    | 8.950   | ng    | 98       |
| 20) 3+4-Methylphenols         | 8.475  | 107  | 58256    | 7.875   | ng    | 97       |
| 22) Acetophenone              | 8.522  | 105  | 92994    | 8.580   | ng    | # 98     |
| 24) Nitrobenzene              | 8.893  | 77   | 71615    | 8.399   | ng    | 98       |
| 25) Isophorone                | 9.416  | 82   | 113475   | 8.197   | ng    | 98       |
| 26) 2-Nitrophenol             | 9.599  | 139  | 27088    | 7.266   | ng    | 95       |
| 27) 2,4-Dimethylphenol        | 9.657  | 122  | 26925    | 6.237   | ng    | 93       |
| 28) bis(2-Chloroethoxy)met... | 9.887  | 93   | 69306    | 8.350   | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 10.128 | 162  | 56504    | 7.711   | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 10.340 | 180  | 72054    | 7.894   | ng    | 99       |
| 31) Naphthalene               | 10.528 | 128  | 178905   | 8.070   | ng    | 99       |
| 32) Benzoic acid              | 9.740  | 122  | 28300m   | 5.607   | ng    |          |
| 33) 4-Chloroaniline           | 10.628 | 127  | 67538    | 8.446   | ng    | 96       |
| 34) Hexachlorobutadiene       | 10.810 | 225  | 54242    | 7.597   | ng    | 97       |
| 35) Caprolactam               | 11.404 | 113  | 15726m   | 7.212   | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 11.751 | 107  | 57167    | 7.272   | ng    | 98       |
| 37) 2-Methylnaphthalene       | 12.134 | 142  | 131308   | 8.096   | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.351 | 142  | 120767   | 7.541   | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 12.504 | 216  | 95302    | 8.499   | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.487 | 237  | 27755    | 6.661   | ng    | 97       |
| 43) 2,4,6-Trichlorophenol     | 12.745 | 196  | 50432    | 7.327   | ng    | 98       |

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### Manual Integrations APPROVED

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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.816 | 196  | 57483    | 7.445  | ng    | 98       |
| 46) 1,1'-Biphenyl             | 13.145 | 154  | 185591   | 8.492  | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.187 | 162  | 145412   | 8.229  | ng    | 99       |
| 48) 2-Nitroaniline            | 13.392 | 65   | 34900    | 7.233  | ng    | 92       |
| 49) Acenaphthylene            | 14.040 | 152  | 216982   | 8.702  | ng    | 99       |
| 50) Dimethylphthalate         | 13.781 | 163  | 190685   | 8.203  | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 13.892 | 165  | 36748    | 7.094  | ng    | 96       |
| 52) Acenaphthene              | 14.387 | 154  | 131312   | 8.091  | ng    | 98       |
| 53) 3-Nitroaniline            | 14.228 | 138  | 34554    | 7.485  | ng    | 96       |
| 54) 2,4-Dinitrophenol         | 14.439 | 184  | 18082    | 5.958  | ng    | 96       |
| 55) Dibenzofuran              | 14.716 | 168  | 233146   | 8.547  | ng    | 99       |
| 56) 4-Nitrophenol             | 14.545 | 139  | 26776    | 6.663  | ng    | 97       |
| 57) 2,4-Dinitrotoluene        | 14.687 | 165  | 52830    | 7.214  | ng    | # 98     |
| 58) Fluorene                  | 15.381 | 166  | 183452   | 8.053  | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol | 14.951 | 232  | 59285    | 7.956  | ng    | 98       |
| 60) Diethylphthalate          | 15.163 | 149  | 190670   | 8.071  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.381 | 204  | 107809   | 8.129  | ng    | 98       |
| 62) 4-Nitroaniline            | 15.398 | 138  | 37559    | 7.399  | ng    | 94       |
| 63) Azobenzene                | 15.675 | 77   | 164949   | 8.438  | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.463 | 198  | 30686    | 6.692  | ng    | 87       |
| 66) n-Nitrosodiphenylamine    | 15.598 | 169  | 162997   | 8.275  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.286 | 248  | 73896    | 8.013  | ng    | 98       |
| 68) Hexachlorobenzene         | 16.410 | 284  | 88299    | 7.680  | ng    | 99       |
| 69) Atrazine                  | 16.569 | 200  | 68993    | 9.776  | ng    | 98       |
| 70) Pentachlorophenol         | 16.763 | 266  | 49411    | 6.388  | ng    | 98       |
| 71) Phenanthrene              | 17.163 | 178  | 309017   | 8.138  | ng    | 98       |
| 72) Anthracene                | 17.257 | 178  | 292063   | 7.945  | ng    | 98       |
| 73) Carbazole                 | 17.533 | 167  | 282641   | 7.961  | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.128 | 149  | 319974   | 7.673  | ng    | 99       |
| 75) Fluoranthene              | 19.239 | 202  | 405251   | 7.646  | ng    | 98       |
| 77) Benzidine                 | 19.439 | 184  | 153315   | 12.898 | ng    | 97       |
| 78) Pyrene                    | 19.616 | 202  | 440361   | 7.484  | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.580 | 149  | 159677   | 7.608  | ng    | 97       |
| 81) Benzo(a)anthracene        | 21.527 | 228  | 509378   | 8.150  | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 21.451 | 252  | 176800   | 7.796  | ng    | 99       |
| 83) Chrysene                  | 21.598 | 228  | 485089   | 8.243  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.474 | 149  | 240855   | 7.819  | ng    | 97       |
| 85) Di-n-octyl phthalate      | 22.716 | 149  | 407137   | 7.782  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.568 | 276  | 645795   | 8.513  | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 23.798 | 252  | 540993   | 8.020  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.863 | 252  | 538311   | 8.433  | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.686 | 252  | 485296   | 8.351  | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 28.639 | 278  | 527022   | 8.418  | ng    | # 96     |
| 92) Benzo(g,h,i)perylene      | 29.721 | 276  | 493937   | 7.702  | ng    | 97       |

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

