

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072023\  
 Data File : BF134382.D  
 Acq On : 20 Jul 2023 15:25  
 Operator : CG\JU  
 Sample : 03580-01MSD  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WASTE-1MSD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh  
 Patel

Quant Time: Jul 20 16:15:46 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 14 22:51:27 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |                               |
|-------------------------------|--------|------|----------|---------|-------|----------|-------------------------------|
| Internal Standards            |        |      |          |         |       |          | 07/21/2023                    |
| 1) 1,4-Dichlorobenzene-d4     | 6.840  | 152  | 68662    | 20.000  | ng    | 0.00     | Supervised By :mohammad Ahmed |
| 21) Naphthalene-d8            | 8.116  | 136  | 265670   | 20.000  | ng    | # 0.00   |                               |
| 39) Acenaphthene-d10          | 9.875  | 164  | 141120   | 20.000  | ng    | 0.00     |                               |
| 64) Phenanthrene-d10          | 11.369 | 188  | 286355   | 20.000  | ng    | 0.00     |                               |
| 76) Chrysene-d12              | 14.033 | 240  | 161433   | 20.000  | ng    | 0.00     |                               |
| 86) Perylene-d12              | 15.539 | 264  | 171806   | 20.000  | ng    | 0.00     | 07/21/2023                    |
| System Monitoring Compounds   |        |      |          |         |       |          |                               |
| 5) 2-Fluorophenol             | 5.493  | 112  | 472286   | 115.060 | ng    | 0.02     |                               |
| 7) Phenol-d6                  | 6.487  | 99   | 529506   | 104.895 | ng    | 0.00     |                               |
| 23) Nitrobenzene-d5           | 7.404  | 82   | 428571   | 86.959  | ng    | 0.00     |                               |
| 42) 2,4,6-Tribromophenol      | 10.675 | 330  | 253416   | 143.224 | ng    | 0.00     |                               |
| 45) 2-Fluorobiphenyl          | 9.198  | 172  | 849321   | 87.502  | ng    | 0.00     |                               |
| 79) Terphenyl-d14             | 12.969 | 244  | 1064298  | 106.106 | ng    | 0.00     |                               |
| Target Compounds              |        |      |          |         |       |          | Qvalue                        |
| 2) 1,4-Dioxane                | 2.787  | 88   | 52983    | 31.305  | ng    | # 79     |                               |
| 3) Pyridine                   | 3.534  | 79   | 112267   | 25.466  | ng    | 95       |                               |
| 4) n-Nitrosodimethylamine     | 3.469  | 42   | 92831    | 36.869  | ng    | 98       |                               |
| 6) Aniline                    | 6.504  | 93   | 92359    | 15.036  | ng    | # 22     |                               |
| 8) 2-Chlorophenol             | 6.628  | 128  | 172551   | 41.411  | ng    | 98       |                               |
| 9) Benzaldehyde               | 6.398  | 77   | 56477    | 17.338  | ng    | 98       |                               |
| 10) Phenol                    | 6.498  | 94   | 183710   | 34.613  | ng    | 92       |                               |
| 11) bis(2-Chloroethyl)ether   | 6.575  | 93   | 168097   | 43.019  | ng    | 98       |                               |
| 12) 1,3-Dichlorobenzene       | 6.781  | 146  | 178868   | 40.265  | ng    | 97       |                               |
| 13) 1,4-Dichlorobenzene       | 6.857  | 146  | 180660   | 40.264  | ng    | 99       |                               |
| 14) 1,2-Dichlorobenzene       | 7.004  | 146  | 175786   | 41.832  | ng    | 98       |                               |
| 15) Benzyl Alcohol            | 6.987  | 79   | 166264   | 42.725  | ng    | 96       |                               |
| 16) 2,2'-oxybis(1-Chloropr... | 7.110  | 45   | 230788   | 33.385  | ng    | 72       |                               |
| 17) 2-Methylphenol            | 7.098  | 107  | 140316   | 37.606  | ng    | # 91     |                               |
| 18) Hexachloroethane          | 7.339  | 117  | 69845    | 41.982  | ng    | 93       |                               |
| 19) n-Nitroso-di-n-propyla... | 7.251  | 70   | 133069   | 41.568  | ng    | 99       |                               |
| 20) 3+4-Methylphenols         | 7.251  | 107  | 183097   | 40.449  | ng    | 95       |                               |
| 22) Acetophenone              | 7.245  | 105  | 257944   | 42.692  | ng    | 95       |                               |
| 24) Nitrobenzene              | 7.422  | 77   | 200340   | 40.226  | ng    | 95       |                               |
| 25) Isophorone                | 7.657  | 82   | 358334   | 40.006  | ng    | 97       |                               |
| 26) 2-Nitrophenol             | 7.739  | 139  | 95871    | 40.128  | ng    | 96       |                               |
| 27) 2,4-Dimethylphenol        | 7.775  | 122  | 150096   | 39.689  | ng    | 94       |                               |
| 28) bis(2-Chloroethoxy)met... | 7.869  | 93   | 206590   | 39.833  | ng    | 98       |                               |
| 29) 2,4-Dichlorophenol        | 7.981  | 162  | 154882   | 41.301  | ng    | 97       |                               |
| 30) 1,2,4-Trichlorobenzene    | 8.057  | 180  | 163303   | 42.202  | ng    | 99       |                               |
| 31) Naphthalene               | 8.139  | 128  | 533563   | 41.578  | ng    | 99       |                               |
| 32) Benzoic acid              | 7.916  | 122  | 88724    | 31.309  | ng    | 89       |                               |
| 33) 4-Chloroaniline           | 8.192  | 127  | 46348m   | 8.443   | ng    |          |                               |
| 34) Hexachlorobutadiene       | 8.251  | 225  | 107677   | 44.113  | ng    | 97       |                               |
| 35) Caprolactam               | 8.575  | 113  | 44895m   | 36.359  | ng    |          |                               |
| 36) 4-Chloro-3-methylphenol   | 8.686  | 107  | 180295   | 42.796  | ng    | 98       |                               |
| 37) 2-Methylnaphthalene       | 8.834  | 142  | 360221   | 39.695  | ng    | 100      |                               |
| 38) 1-Methylnaphthalene       | 8.928  | 142  | 340215   | 40.328  | ng    | 98       |                               |
| 40) 1,2,4,5-Tetrachloroben... | 8.998  | 216  | 175412   | 41.956  | ng    | 99       |                               |
| 41) Hexachlorocyclopentadiene | 8.981  | 237  | 135313   | 68.219  | ng    | 98       |                               |
| 43) 2,4,6-Trichlorophenol     | 9.116  | 196  | 115221   | 40.484  | ng    | 99       |                               |

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| 44) 2,4,5-Trichlorophenol     | 9.163  | 196  | 123439   | 36.871 | ng    | 95       | 07/21/2023                       |
| 46) 1,1'-Biphenyl             | 9.298  | 154  | 464290   | 41.015 | ng    | 97       | Supervised By :mohammad<br>ahmed |
| 47) 2-Chloronaphthalene       | 9.322  | 162  | 340175   | 41.071 | ng    | 96       |                                  |
| 48) 2-Nitroaniline            | 9.428  | 65   | 119898   | 39.720 | ng    | 93       |                                  |
| 49) Acenaphthylene            | 9.739  | 152  | 560312   | 39.602 | ng    | 99       |                                  |
| 50) Dimethylphthalate         | 9.604  | 163  | 441688   | 43.117 | ng    | 100      |                                  |
| 51) 2,6-Dinitrotoluene        | 9.669  | 165  | 93315    | 42.293 | ng    | # 86     | 07/21/2023                       |
| 52) Acenaphthene              | 9.910  | 154  | 337314   | 41.087 | ng    | 98       |                                  |
| 53) 3-Nitroaniline            | 9.839  | 138  | 58269    | 22.014 | ng    | 97       |                                  |
| 54) 2,4-Dinitrophenol         | 9.957  | 184  | 80962    | 64.334 | ng    | 94       |                                  |
| 55) Dibenzofuran              | 10.086 | 168  | 519652   | 40.501 | ng    | 98       |                                  |
| 56) 4-Nitrophenol             | 10.016 | 139  | 112804   | 60.926 | ng    | 90       |                                  |
| 57) 2,4-Dinitrotoluene        | 10.080 | 165  | 126204   | 43.312 | ng    | # 84     |                                  |
| 58) Fluorene                  | 10.428 | 166  | 431726   | 43.250 | ng    | 99       |                                  |
| 59) 2,3,4,6-Tetrachlorophenol | 10.210 | 232  | 109445   | 41.444 | ng    | 96       |                                  |
| 60) Diethylphthalate          | 10.304 | 149  | 464612   | 43.533 | ng    | 98       |                                  |
| 61) 4-Chlorophenyl-phenyle... | 10.422 | 204  | 210625   | 43.784 | ng    | 98       |                                  |
| 62) 4-Nitroaniline            | 10.463 | 138  | 84620    | 31.722 | ng    | 88       |                                  |
| 63) Azobenzene                | 10.580 | 77   | 407112   | 40.326 | ng    | 97       |                                  |
| 65) 4,6-Dinitro-2-methylph... | 10.492 | 198  | 60471    | 38.734 | ng    | 89       |                                  |
| 66) n-Nitrosodiphenylamine    | 10.545 | 169  | 373198   | 40.791 | ng    | 98       |                                  |
| 67) 4-Bromophenyl-phenylether | 10.910 | 248  | 131293   | 43.137 | ng    | 91       |                                  |
| 68) Hexachlorobenzene         | 10.980 | 284  | 152158   | 47.084 | ng    | 93       |                                  |
| 69) Atrazine                  | 11.075 | 200  | 127885   | 50.533 | ng    | 98       |                                  |
| 70) Pentachlorophenol         | 11.180 | 266  | 125295   | 64.845 | ng    | 96       |                                  |
| 71) Phenanthrene              | 11.398 | 178  | 603951   | 41.896 | ng    | 99       |                                  |
| 72) Anthracene                | 11.451 | 178  | 606852   | 40.473 | ng    | 99       |                                  |
| 73) Carbazole                 | 11.610 | 167  | 572229   | 41.696 | ng    | 99       |                                  |
| 74) Di-n-butylphthalate       | 11.933 | 149  | 744848   | 45.639 | ng    | 99       |                                  |
| 75) Fluoranthene              | 12.592 | 202  | 630769   | 40.474 | ng    | 98       |                                  |
| 77) Benzidine                 | 12.716 | 184  | 55659    | 14.490 | ng    | 99       |                                  |
| 78) Pyrene                    | 12.827 | 202  | 624680   | 41.580 | ng    | 99       |                                  |
| 80) Butylbenzylphthalate      | 13.445 | 149  | 279537   | 49.611 | ng    | 98       |                                  |
| 81) Benzo(a)anthracene        | 14.021 | 228  | 462406   | 41.302 | ng    | 99       |                                  |
| 82) 3,3'-Dichlorobenzidine    | 13.986 | 252  | 114432   | 32.261 | ng    | 96       |                                  |
| 83) Chrysene                  | 14.063 | 228  | 420772   | 38.803 | ng    | 99       |                                  |
| 84) Bis(2-ethylhexyl)phtha... | 14.004 | 149  | 389318   | 60.132 | ng    | 100      |                                  |
| 85) Di-n-octyl phthalate      | 14.627 | 149  | 573703   | 60.306 | ng    | 97       |                                  |
| 87) Indeno(1,2,3-cd)pyrene    | 17.098 | 276  | 524152   | 43.966 | ng    | # 95     |                                  |
| 88) Benzo(b)fluoranthene      | 15.098 | 252  | 430141   | 42.578 | ng    | # 98     |                                  |
| 89) Benzo(k)fluoranthene      | 15.127 | 252  | 416593   | 40.502 | ng    | # 98     |                                  |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 374638   | 38.350 | ng    | 98       |                                  |
| 91) Dibenzo(a,h)anthracene    | 17.109 | 278  | 442529   | 45.446 | ng    | # 95     |                                  |
| 92) Benzo(g,h,i)perylene      | 17.568 | 276  | 406549   | 40.486 | ng    | # 93     |                                  |

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

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