

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121523\  
 Data File : BF136598.D  
 Acq On : 15 Dec 2023 18:00  
 Operator : CG\JU  
 Sample : 05624-03MSD  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 14TH-SOIL-2MSD

Quant Time: Dec 16 02:04:58 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 15 00:33:23 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/16/2023  
 Supervised By :mohammad ahmed 12/16/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.786  | 152  | 96989    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.063  | 136  | 343166   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.822  | 164  | 150370   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.310 | 188  | 237615   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 13.968 | 240  | 217879   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.439 | 264  | 211233   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.434  | 112  | 664412   | 101.168 | ng    | 0.01     |
| 7) Phenol-d6                  | 6.439  | 99   | 787782   | 96.143  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.351  | 82   | 475357   | 74.885  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.616 | 330  | 175722   | 94.776  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.145  | 172  | 875671   | 79.461  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.904 | 244  | 822625   | 49.764  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.604  | 88   | 106864   | 41.140  | ng    | 95       |
| 3) Pyridine                   | 3.363  | 79   | 244297   | 38.835  | ng    | 94       |
| 4) n-Nitrosodimethylamine     | 3.328  | 42   | 115210   | 42.155  | ng    | 97       |
| 6) Aniline                    | 6.451  | 93   | 216387   | 26.131  | ng    | # 1      |
| 8) 2-Chlorophenol             | 6.575  | 128  | 292138   | 40.747  | ng    | 96       |
| 9) Benzaldehyde               | 6.339  | 77   | 111807   | 24.581  | ng    | 95       |
| 10) Phenol                    | 6.451  | 94   | 336201   | 38.560  | ng    | 93       |
| 11) bis(2-Chloroethyl)ether   | 6.528  | 93   | 271739   | 41.812  | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 6.728  | 146  | 322095   | 39.947  | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 6.804  | 146  | 326634   | 39.935  | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 6.957  | 146  | 309427   | 40.230  | ng    | 98       |
| 15) Benzyl Alcohol            | 6.934  | 79   | 226824   | 41.340  | ng    | 96       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.063  | 45   | 312962   | 37.442  | ng    | 89       |
| 17) 2-Methylphenol            | 7.051  | 107  | 216325   | 37.347  | ng    | 96       |
| 18) Hexachloroethane          | 7.292  | 117  | 113287   | 39.672  | ng    | 96       |
| 19) n-Nitroso-di-n-propyla... | 7.204  | 70   | 180643   | 38.218  | ng    | 96       |
| 20) 3+4-Methylphenols         | 7.204  | 107  | 269975   | 37.551  | ng    | # 76     |
| 22) Acetophenone              | 7.198  | 105  | 396002   | 46.731  | ng    | 98       |
| 24) Nitrobenzene              | 7.369  | 77   | 269539   | 42.209  | ng    | 97       |
| 25) Isophorone                | 7.610  | 82   | 479421   | 42.038  | ng    | 94       |
| 26) 2-Nitrophenol             | 7.686  | 139  | 145839   | 46.455  | ng    | 91       |
| 27) 2,4-Dimethylphenol        | 7.728  | 122  | 205243   | 53.020  | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.822  | 93   | 312682   | 44.619  | ng    | 97       |
| 29) 2,4-Dichlorophenol        | 7.928  | 162  | 216566   | 42.385  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 8.004  | 180  | 257795   | 43.269  | ng    | 99       |
| 31) Naphthalene               | 8.086  | 128  | 800020   | 42.275  | ng    | 99       |
| 32) Benzoic acid              | 7.845  | 122  | 133448m  | 34.751  | ng    |          |
| 33) 4-Chloroaniline           | 8.139  | 127  | 92144    | 13.658  | ng    | 97       |
| 34) Hexachlorobutadiene       | 8.204  | 225  | 152173   | 43.096  | ng    | 99       |
| 35) Caprolactam               | 8.510  | 113  | 61035m   | 38.790  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 8.633  | 107  | 210733   | 38.843  | ng    | 94       |
| 37) 2-Methylnaphthalene       | 8.780  | 142  | 486372   | 40.398  | ng    | 95       |
| 38) 1-Methylnaphthalene       | 8.880  | 142  | 462116   | 39.116  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 8.945  | 216  | 238242   | 50.926  | ng    | 100      |
| 41) Hexachlorocyclopentadiene | 8.928  | 237  | 104590   | 60.346  | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 9.063  | 196  | 139012   | 45.636  | ng    | 99       |

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Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.104  | 196  | 143308   | 42.152 | ng    | 95       |
| 46) 1,1'-Biphenyl             | 9.245  | 154  | 620347   | 48.484 | ng    | 96       |
| 47) 2-Chloronaphthalene       | 9.269  | 162  | 445715   | 44.757 | ng    | 97       |
| 48) 2-Nitroaniline            | 9.369  | 65   | 114898   | 43.018 | ng    | 91       |
| 49) Acenaphthylene            | 9.686  | 152  | 667390   | 47.045 | ng    | 98       |
| 50) Dimethylphthalate         | 9.551  | 163  | 515474   | 46.562 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 9.610  | 165  | 110455   | 44.348 | ng    | 99       |
| 52) Acenaphthene              | 9.857  | 154  | 398044   | 43.786 | ng    | 95       |
| 53) 3-Nitroaniline            | 9.780  | 138  | 79033    | 31.075 | ng    | 95       |
| 54) 2,4-Dinitrophenol         | 9.886  | 184  | 58409    | 46.384 | ng    | # 89     |
| 55) Dibenzofuran              | 10.027 | 168  | 579975   | 43.672 | ng    | 99       |
| 56) 4-Nitrophenol             | 9.957  | 139  | 146754   | 76.971 | ng    | 89       |
| 57) 2,4-Dinitrotoluene        | 10.016 | 165  | 133315   | 40.463 | ng    | 98       |
| 58) Fluorene                  | 10.374 | 166  | 437390   | 41.029 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.151 | 232  | 108557   | 39.863 | ng    | 98       |
| 60) Diethylphthalate          | 10.251 | 149  | 467721   | 42.965 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.369 | 204  | 224375   | 43.174 | ng    | 92       |
| 62) 4-Nitroaniline            | 10.392 | 138  | 86297    | 34.172 | ng    | 92       |
| 63) Azobenzene                | 10.527 | 77   | 386954   | 39.052 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 10.422 | 198  | 46288    | 31.455 | ng    | 97       |
| 66) n-Nitrosodiphenylamine    | 10.486 | 169  | 382322   | 50.143 | ng    | 97       |
| 67) 4-Bromophenyl-phenylether | 10.857 | 248  | 132142   | 47.832 | ng    | 97       |
| 68) Hexachlorobenzene         | 10.921 | 284  | 142631   | 44.670 | ng    | # 92     |
| 69) Atrazine                  | 11.016 | 200  | 126335   | 58.054 | ng    | 98       |
| 70) Pentachlorophenol         | 11.121 | 266  | 146126   | 81.088 | ng    | 98       |
| 71) Phenanthrene              | 11.339 | 178  | 607687   | 46.529 | ng    | 97       |
| 72) Anthracene                | 11.386 | 178  | 599454   | 45.570 | ng    | 98       |
| 73) Carbazole                 | 11.551 | 167  | 529570   | 45.485 | ng    | 98       |
| 74) Di-n-butylphthalate       | 11.880 | 149  | 651785   | 45.665 | ng    | 99       |
| 75) Fluoranthene              | 12.527 | 202  | 653731   | 47.764 | ng    | 97       |
| 77) Benzidine                 | 12.657 | 184  | 213630   | 41.769 | ng    | 99       |
| 78) Pyrene                    | 12.763 | 202  | 679886   | 31.862 | ng    | 98       |
| 80) Butylbenzylphthalate      | 13.386 | 149  | 283131   | 37.274 | ng    | 96       |
| 81) Benzo(a)anthracene        | 13.957 | 228  | 694925   | 45.789 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 13.921 | 252  | 210883   | 49.558 | ng    | 99       |
| 83) Chrysene                  | 13.992 | 228  | 660051   | 44.205 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 13.951 | 149  | 394917   | 42.409 | ng    | # 97     |
| 85) Di-n-octyl phthalate      | 14.568 | 149  | 755539   | 54.929 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.945 | 276  | 492484   | 33.560 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.009 | 252  | 699736   | 48.450 | ng    | 100      |
| 89) Benzo(k)fluoranthene      | 15.039 | 252  | 581862   | 42.750 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.380 | 252  | 540412   | 45.309 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 16.962 | 278  | 411555   | 34.233 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.398 | 276  | 364644   | 29.551 | ng    | 100      |

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

