

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP071524\  
 Data File : BP021003.D  
 Acq On : 16 Jul 2024 23:48  
 Operator : MA/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SSTD020690

Quant Time: Jul 17 01:51:13 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP071024.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jul 15 12:22:22 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/18/2024  
 Supervised By :mohammad ahmed 07/18/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.693  | 152  | 236484   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.452 | 136  | 898206   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.310 | 164  | 542126   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.128 | 188  | 1134938  | 20.000 | ng/u1  | 0.01     |
| 79) Chrysene-d12              | 21.551 | 240  | 1283251  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.845 | 264  | 1566024  | 20.000 | ng/u1  | 0.01     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.246  | 96   | 46586    | 8.964  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.658  | 84   | 327505   | 21.768 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.893  | 99   | 382750   | 19.852 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.046  | 67   | 232895   | 19.933 | ng/u1  | 0.01     |
| 11) 2-Chlorophenol-d4         | 7.240  | 132  | 327655   | 20.627 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.405  | 113  | 306214   | 19.123 | ng/u1  | 0.01     |
| 21) Nitrobenzene-d5           | 8.840  | 128  | 151490   | 21.714 | ng/u1  | 0.01     |
| 24) 2-Nitrophenol-d4          | 9.552  | 143  | 169707   | 21.253 | ng/u1  | 0.01     |
| 28) 2,4-Dichlorophenol-d3     | 10.093 | 165  | 308760   | 21.384 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.599 | 131  | 396601   | 20.734 | ng/u1  | 0.01     |
| 46) Dimethylphthalate-d6      | 13.716 | 166  | 835136   | 21.191 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.999 | 160  | 960212   | 21.699 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.569 | 143  | 125439   | 22.371 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.322 | 176  | 688752   | 21.303 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.469 | 200  | 136565   | 19.887 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.216 | 188  | 1105553  | 21.932 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.598 | 212  | 1399689  | 17.643 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.616 | 264  | 1619798  | 20.972 | ng/u1  | 0.01     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.276  | 88   | 50336    | 8.807  | ng/uL  | 97       |
| 5) Pyridine                   | 3.676  | 79   | 334669   | 21.566 | ng/u1  | 100      |
| 6) Benzaldehyde               | 6.864  | 77   | 237595   | 24.444 | ng/u1  | 99       |
| 8) Phenol                     | 6.922  | 94   | 388185   | 19.897 | ng/u1  | 96       |
| 10) Bis(2-Chloroethyl)ether   | 7.134  | 93   | 318336   | 19.752 | ng/u1  | 99       |
| 12) 2-Chlorophenol            | 7.269  | 128  | 321905   | 20.219 | ng/u1  | 99       |
| 13) 2-Methylphenol            | 8.146  | 108  | 297986   | 19.750 | ng/u1  | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.205  | 45   | 456552m  | 19.608 | ng/u1  |          |
| 16) Acetophenone              | 8.516  | 105  | 470673   | 19.045 | ng/u1  | 100      |
| 17) N-Nitroso-di-n-propyla... | 8.487  | 70   | 237615   | 18.350 | ng/u1  | 99       |
| 18) 4-Methylphenol            | 8.469  | 108  | 312040   | 19.305 | ng/u1  | 97       |
| 19) Hexachloroethane          | 8.740  | 117  | 141223   | 19.739 | ng/u1  | 98       |
| 22) Nitrobenzene              | 8.887  | 77   | 365293   | 21.858 | ng/u1  | 99       |
| 23) Isophorone                | 9.405  | 82   | 660228   | 19.872 | ng/u1  | 100      |
| 25) 2-Nitrophenol             | 9.581  | 139  | 179934   | 21.606 | ng/u1  | 96       |
| 26) 2,4-Dimethylphenol        | 9.652  | 107  | 344836   | 20.998 | ng/u1  | 98       |
| 27) Bis(2-Chloroethoxy)met... | 9.869  | 93   | 412531   | 20.427 | ng/u1  | 98       |
| 29) 2,4-Dichlorophenol        | 10.116 | 162  | 298513   | 20.978 | ng/u1  | 100      |
| 30) Naphthalene               | 10.499 | 128  | 989768   | 20.949 | ng/u1  | 100      |
| 32) 4-Chloroaniline           | 10.622 | 127  | 383703   | 21.007 | ng/u1  | 98       |
| 33) Hexachlorobutadiene       | 10.769 | 225  | 223093   | 20.909 | ng/u1  | 99       |
| 34) Caprolactam               | 11.428 | 113  | 90752m   | 20.703 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.763 | 107  | 315575   | 20.402 | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.105 | 142  | 652779   | 20.128 | ng/u1  | 98       |

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Manual Integrations  
 APPROVED

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.340 | 142  | 681054   | 20.418 | ng/ul  | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 12.475 | 216  | 387253   | 21.995 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 12.440 | 237  | 160453   | 17.421 | ng/ul  | 99       |
| 41) 2,4,6-Trichlorophenol     | 12.734 | 196  | 235639   | 21.181 | ng/ul  | 97       |
| 42) 2,4,5-Trichlorophenol     | 12.816 | 196  | 253964   | 21.576 | ng/ul  | 99       |
| 43) 1,1'-Biphenyl             | 13.128 | 154  | 851813   | 21.500 | ng/ul  | 98       |
| 44) 2-Chloronaphthalene       | 13.175 | 162  | 683043   | 21.596 | ng/ul  | 99       |
| 45) 2-Nitroaniline            | 13.404 | 65   | 192440   | 22.001 | ng/ul  | 100      |
| 47) Dimethylphthalate         | 13.769 | 163  | 844563   | 21.121 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 13.904 | 165  | 170492   | 21.326 | ng/ul  | 99       |
| 50) Acenaphthylene            | 14.022 | 152  | 1073547  | 21.427 | ng/ul  | 100      |
| 51) 3-Nitroaniline            | 14.246 | 138  | 169395   | 24.349 | ng/ul  | 93       |
| 52) Acenaphthene              | 14.369 | 153  | 707429   | 21.273 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.469 | 184  | 76084    | 18.122 | ng/ul  | 98       |
| 55) 4-Nitrophenol             | 14.587 | 109  | 113836   | 24.958 | ng/ul  | 94       |
| 56) Dibenzofuran              | 14.710 | 168  | 975409   | 21.419 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 14.704 | 165  | 246590   | 22.469 | ng/ul  | 92       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.963 | 232  | 213594   | 21.191 | ng/ul# | 97       |
| 59) Diethylphthalate          | 15.151 | 149  | 822572   | 20.583 | ng/ul  | 100      |
| 61) Fluorene                  | 15.375 | 166  | 773760   | 20.822 | ng/ul  | 100      |
| 62) 4-Chlorophenyl-phenyle... | 15.375 | 204  | 406580   | 20.163 | ng/ul  | 99       |
| 63) 4-Nitroaniline            | 15.422 | 138  | 157514m  | 27.340 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.487 | 198  | 146431   | 20.108 | ng/ul  | 99       |
| 67) N-Nitrosodiphenylamine    | 15.604 | 169  | 669926   | 20.270 | ng/ul  | 99       |
| 68) 4-Bromophenyl-phenylether | 16.293 | 248  | 261953   | 19.692 | ng/ul  | 99       |
| 69) Hexachlorobenzene         | 16.404 | 284  | 310770   | 20.374 | ng/ul  | 99       |
| 70) Atrazine                  | 16.581 | 200  | 242760   | 20.155 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 16.769 | 266  | 172735   | 20.851 | ng/ul  | 97       |
| 72) Phenanthrene              | 17.163 | 178  | 1251810  | 21.262 | ng/ul  | 99       |
| 74) Anthracene                | 17.251 | 178  | 1300639  | 21.669 | ng/ul  | 100      |
| 75) 1,2,3,4-Tetrachloroben... | 13.099 | 216  | 380145   | 20.927 | ng/uL  | 98       |
| 76) Pentachlorobenzene        | 14.628 | 250  | 367108   | 20.338 | ng/uL  | 98       |
| 77) Carbazole                 | 17.551 | 167  | 1167484  | 23.794 | ng/ul  | 100      |
| 78) Di-n-butylphthalate       | 18.122 | 149  | 1374832  | 20.309 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.257 | 202  | 1625621  | 16.967 | ng/ul  | 98       |
| 82) Pyrene                    | 19.634 | 202  | 1698667  | 17.423 | ng/ul  | 100      |
| 83) Butylbenzylphthalate      | 20.581 | 149  | 705869   | 17.377 | ng/ul  | 98       |
| 84) 3,3'-Dichlorobenzidine    | 21.463 | 252  | 601119   | 20.500 | ng/ul  | 99       |
| 85) Benzo(a)anthracene        | 21.533 | 228  | 1856038  | 20.647 | ng/ul  | 100      |
| 86) Bis(2-ethylhexyl)phtha... | 21.457 | 149  | 1009754  | 17.273 | ng/ul  | 100      |
| 87) Chrysene                  | 21.604 | 228  | 1738102  | 20.808 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.698 | 149  | 1864228  | 18.020 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.804 | 252  | 2028700  | 21.347 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 23.869 | 252  | 1941703  | 20.473 | ng/ul  | 99       |
| 93) Benzo(a)pyrene            | 24.686 | 252  | 1851356  | 20.615 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.592 | 276  | 2343123m | 20.248 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 28.651 | 278  | 1954497m | 20.396 | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 29.751 | 276  | 1898578  | 20.145 | ng/ul  | 98       |

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

