

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM022824\  
 Data File : BM044404.D  
 Acq On : 28 Feb 2024 15:03  
 Operator : MA/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD020055

Quant Time: Feb 28 22:53:37 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM022324.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Feb 27 23:05:48 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/01/2024  
 Supervised By :mohammad ahmed 03/02/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.951  | 152  | 211575   | 20.000 | ng/u1  | 0.01     |
| 20) Naphthalene-d8            | 10.757 | 136  | 892355   | 20.000 | ng/u1  | 0.01     |
| 38) Acenaphthene-d10          | 14.592 | 164  | 524018   | 20.000 | ng/u1  | 0.01     |
| 64) Phenanthrene-d10          | 17.339 | 188  | 1040913  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.539 | 240  | 877291   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.962 | 264  | 982931   | 20.000 | ng/u1  | 0.01     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.369  | 96   | 48851    | 7.285  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.787  | 84   | 334286   | 18.253 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.110  | 99   | 367761   | 18.145 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.292  | 67   | 239497   | 18.247 | ng/u1  | 0.01     |
| 11) 2-Chlorophenol-d4         | 7.475  | 132  | 293001   | 19.194 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.663  | 113  | 277065   | 18.066 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.122  | 128  | 141055   | 19.441 | ng/u1  | 0.01     |
| 24) 2-Nitrophenol-d4          | 9.839  | 143  | 145648   | 19.676 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.375 | 165  | 261155   | 20.000 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.904 | 131  | 402722   | 18.363 | ng/u1  | 0.01     |
| 46) Dimethylphthalate-d6      | 14.016 | 166  | 751308   | 18.590 | ng/u1  | 0.01     |
| 49) Acenaphthylene-d8         | 14.286 | 160  | 878733   | 18.898 | ng/u1  | 0.01     |
| 54) 4-Nitrophenol-d4          | 14.792 | 143  | 131678   | 16.374 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.580 | 176  | 643930   | 18.825 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.710 | 200  | 104222   | 16.137 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.439 | 188  | 972592   | 19.596 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.733 | 212  | 1047797  | 19.853 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.803 | 264  | 963878   | 19.137 | ng/u1  | 0.01     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.404  | 88   | 52543    | 7.434  | ng/uL  | 99       |
| 5) Pyridine                   | 3.804  | 79   | 351619   | 18.352 | ng/u1  | 99       |
| 6) Benzaldehyde               | 7.092  | 77   | 210473m  | 23.923 | ng/u1  |          |
| 8) Phenol                     | 7.140  | 94   | 385086   | 18.278 | ng/u1  | 97       |
| 10) Bis(2-Chloroethyl)ether   | 7.387  | 93   | 322375   | 18.281 | ng/u1  | 99       |
| 12) 2-Chlorophenol            | 7.510  | 128  | 301705   | 19.104 | ng/u1  | 98       |
| 13) 2-Methylphenol            | 8.398  | 108  | 283551   | 18.268 | ng/u1  | 100      |
| 14) 2,2'-oxybis(1-Chloropr... | 8.481  | 45   | 433520   | 17.980 | ng/u1  | 97       |
| 16) Acetophenone              | 8.786  | 105  | 459492   | 18.754 | ng/u1  | 98       |
| 17) N-Nitroso-di-n-propyla... | 8.769  | 70   | 239020   | 19.474 | ng/u1  | 99       |
| 18) 4-Methylphenol            | 8.728  | 108  | 304879   | 18.439 | ng/u1  | 99       |
| 19) Hexachloroethane          | 9.022  | 117  | 128326   | 19.154 | ng/u1  | 97       |
| 22) Nitrobenzene              | 9.163  | 77   | 338607   | 19.297 | ng/u1  | 100      |
| 23) Isophorone                | 9.692  | 82   | 650423   | 19.126 | ng/u1  | 99       |
| 25) 2-Nitrophenol             | 9.875  | 139  | 162409   | 19.782 | ng/u1  | 99       |
| 26) 2,4-Dimethylphenol        | 9.933  | 107  | 302060   | 19.268 | ng/u1  | 99       |
| 27) Bis(2-Chloroethoxy)met... | 10.181 | 93   | 419210   | 18.962 | ng/u1  | 100      |
| 29) 2,4-Dichlorophenol        | 10.404 | 162  | 260298   | 19.696 | ng/u1  | 98       |
| 30) Naphthalene               | 10.804 | 128  | 973767   | 19.187 | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.928 | 127  | 393333   | 18.405 | ng/u1  | 99       |
| 33) Hexachlorobutadiene       | 11.080 | 225  | 154940   | 19.460 | ng/u1  | 99       |
| 34) Caprolactam               | 11.710 | 113  | 79141m   | 17.324 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 12.051 | 107  | 279509   | 19.852 | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.416 | 142  | 625027   | 19.335 | ng/u1  | 100      |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 37) 1-Methylnaphthalene       | 12.633 | 142  | 618143   | 19.344 | ng/ul | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.780 | 216  | 294009   | 18.953 | ng/ul | 99       |
| 40) Hexachlorocyclopentadiene | 12.751 | 237  | 199776   | 19.141 | ng/ul | 99       |
| 41) 2,4,6-Trichlorophenol     | 13.027 | 196  | 194402   | 19.661 | ng/ul | 97       |
| 42) 2,4,5-Trichlorophenol     | 13.098 | 196  | 204675   | 19.148 | ng/ul | 97       |
| 43) 1,1'-Biphenyl             | 13.427 | 154  | 792658   | 18.580 | ng/ul | 99       |
| 44) 2-Chloronaphthalene       | 13.469 | 162  | 627987   | 18.800 | ng/ul | 99       |
| 45) 2-Nitroaniline            | 13.686 | 65   | 176058   | 19.037 | ng/ul | 96       |
| 47) Dimethylphthalate         | 14.063 | 163  | 763513   | 18.484 | ng/ul | 99       |
| 48) 2,6-Dinitrotoluene        | 14.186 | 165  | 146753   | 18.998 | ng/ul | 93       |
| 50) Acenaphthylene            | 14.310 | 152  | 1049708  | 19.059 | ng/ul | 99       |
| 51) 3-Nitroaniline            | 14.510 | 138  | 150487   | 18.466 | ng/ul | 99       |
| 52) Acenaphthene              | 14.651 | 153  | 677435   | 18.632 | ng/ul | 99       |
| 53) 2,4-Dinitrophenol         | 14.716 | 184  | 72081    | 15.038 | ng/ul | 96       |
| 55) 4-Nitrophenol             | 14.810 | 109  | 90031    | 16.296 | ng/ul | 97       |
| 56) Dibenzofuran              | 14.992 | 168  | 917427   | 18.796 | ng/ul | 99       |
| 57) 2,4-Dinitrotoluene        | 14.968 | 165  | 213657   | 19.253 | ng/ul | 98       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.215 | 232  | 170011   | 19.763 | ng/ul | 96       |
| 59) Diethylphthalate          | 15.421 | 149  | 784806   | 18.458 | ng/ul | 99       |
| 61) Fluorene                  | 15.639 | 166  | 751352   | 19.166 | ng/ul | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.639 | 204  | 357684   | 19.360 | ng/ul | 99       |
| 63) 4-Nitroaniline            | 15.668 | 138  | 149352   | 18.948 | ng/ul | 98       |
| 66) 4,6-Dinitro-2-methylph... | 15.721 | 198  | 118079   | 16.713 | ng/ul | 96       |
| 67) N-Nitrosodiphenylamine    | 15.857 | 169  | 609553   | 19.324 | ng/ul | 99       |
| 68) 4-Bromophenyl-phenylether | 16.533 | 248  | 195133   | 18.868 | ng/ul | 98       |
| 69) Hexachlorobenzene         | 16.633 | 284  | 232521   | 19.643 | ng/ul | 98       |
| 70) Atrazine                  | 16.815 | 200  | 196570   | 19.023 | ng/ul | 98       |
| 71) Pentachlorophenol         | 16.980 | 266  | 138563   | 17.763 | ng/ul | 100      |
| 72) Phenanthrene              | 17.380 | 178  | 1152202  | 19.295 | ng/ul | 100      |
| 74) Anthracene                | 17.474 | 178  | 1178892  | 19.608 | ng/ul | 100      |
| 75) 1,2,3,4-Tetrachloroben... | 13.386 | 216  | 284243   | 19.508 | ng/uL | 99       |
| 76) Pentachlorobenzene        | 14.904 | 250  | 273608   | 19.670 | ng/uL | 97       |
| 77) Carbazole                 | 17.751 | 167  | 1071067  | 18.946 | ng/ul | 100      |
| 78) Di-n-butylphthalate       | 18.327 | 149  | 1362417  | 19.034 | ng/ul | 100      |
| 80) Fluoranthene              | 19.398 | 202  | 1253318  | 19.800 | ng/ul | 98       |
| 82) Pyrene                    | 19.762 | 202  | 1326064  | 19.976 | ng/ul | 99       |
| 83) Butylbenzylphthalate      | 20.686 | 149  | 562702   | 18.872 | ng/ul | 97       |
| 84) 3,3'-Dichlorobenzidine    | 21.462 | 252  | 365424   | 18.622 | ng/ul | 99       |
| 85) Benzo(a)anthracene        | 21.521 | 228  | 1260743  | 19.269 | ng/ul | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.468 | 149  | 873874   | 19.143 | ng/ul | 99       |
| 87) Chrysene                  | 21.574 | 228  | 1178481  | 19.161 | ng/ul | 99       |
| 89) Di-n-octyl phthalate      | 22.415 | 149  | 1446424  | 17.175 | ng/ul | 100      |
| 90) Benzo(b)fluoranthene      | 23.221 | 252  | 1207148  | 19.157 | ng/ul | 99       |
| 91) Benzo(k)fluoranthene      | 23.274 | 252  | 1236853  | 19.111 | ng/ul | 99       |
| 93) Benzo(a)pyrene            | 23.850 | 252  | 1160224  | 19.097 | ng/ul | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.491 | 276  | 1390322  | 18.924 | ng/ul | 99       |
| 95) Dibenzo(a,h)anthracene    | 26.515 | 278  | 1174648  | 19.132 | ng/ul | 99       |
| 96) Benzo(g,h,i)perylene      | 27.262 | 276  | 1135029  | 19.098 | ng/ul | 97       |

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

