

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN021924\  
 Data File : BN029862.D  
 Acq On : 19 Feb 2024 22:05  
 Operator : MA/JU  
 Sample : PB159013BS  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SLCS013

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 02/21/2024  
 Supervised By :mohammad ahmed 02/21/2024

Quant Time: Feb 19 22:42:40 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020724.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Feb 13 22:50:45 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.863  | 152  | 132004   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.657 | 136  | 545073   | 20.000 | ng/u1  | -0.01    |
| 38) Acenaphthene-d10          | 14.504 | 164  | 286738   | 20.000 | ng/u1  | -0.01    |
| 64) Phenanthrene-d10          | 17.257 | 188  | 584666   | 20.000 | ng/u1  | -0.01    |
| 79) Chrysene-d12              | 21.462 | 240  | 517807   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.821 | 264  | 568945   | 20.000 | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.316  | 96   | 28633    | 7.134  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.728  | 84   | 391731   | 36.601 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.034  | 99   | 483125   | 39.129 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.204  | 67   | 314977   | 38.224 | ng/u1  | -0.01    |
| 11) 2-Chlorophenol-d4         | 7.393  | 132  | 374887   | 41.899 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.575  | 113  | 364365   | 39.570 | ng/u1  | -0.01    |
| 21) Nitrobenzene-d5           | 9.034  | 128  | 179531   | 42.438 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.745  | 143  | 178783   | 48.524 | ng/u1  | -0.01    |
| 28) 2,4-Dichlorophenol-d3     | 10.281 | 165  | 326766   | 44.932 | ng/u1  | -0.01    |
| 31) 4-Chloroaniline-d4        | 10.810 | 131  | 400034   | 32.243 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.928 | 166  | 898768   | 42.101 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.198 | 160  | 1071056  | 42.247 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.722 | 143  | 167415   | 41.319 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.504 | 176  | 760406   | 41.870 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.633 | 200  | 124412   | 43.671 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.357 | 188  | 1154933  | 42.149 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.657 | 212  | 1296549  | 41.725 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.668 | 264  | 1264344  | 44.411 | ng/u1  | -0.01    |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.352  | 88   | 62623    | 15.065 | ng/uL  | 95       |
| 5) Pyridine                   | 3.746  | 79   | 423611   | 38.258 | ng/u1  | 97       |
| 6) Benzaldehyde               | 7.010  | 77   | 242169   | 43.755 | ng/u1  | 93       |
| 8) Phenol                     | 7.057  | 94   | 531281   | 41.985 | ng/u1  | 100      |
| 10) Bis(2-Chloroethyl)ether   | 7.298  | 93   | 431311   | 40.534 | ng/u1  | 99       |
| 12) 2-Chlorophenol            | 7.422  | 128  | 416051   | 44.321 | ng/u1  | 99       |
| 13) 2-Methylphenol            | 8.310  | 108  | 380922   | 41.715 | ng/u1  | 100      |
| 14) 2,2'-oxybis(1-Chloropr... | 8.393  | 45   | 562078   | 40.446 | ng/u1  | 99       |
| 16) Acetophenone              | 8.693  | 105  | 625675   | 42.692 | ng/u1  | 99       |
| 17) N-Nitroso-di-n-propyla... | 8.681  | 70   | 332364   | 43.927 | ng/u1  | 97       |
| 18) 4-Methylphenol            | 8.640  | 108  | 409404   | 42.428 | ng/u1  | 94       |
| 19) Hexachloroethane          | 8.928  | 117  | 179624   | 41.234 | ng/u1  | 97       |
| 22) Nitrobenzene              | 9.075  | 77   | 515623   | 43.017 | ng/u1  | 98       |
| 23) Isophorone                | 9.598  | 82   | 901630   | 43.184 | ng/u1  | 100      |
| 25) 2-Nitrophenol             | 9.781  | 139  | 208129   | 49.467 | ng/u1  | 99       |
| 26) 2,4-Dimethylphenol        | 9.840  | 107  | 376784   | 37.366 | ng/u1  | 99       |
| 27) Bis(2-Chloroethoxy)met... | 10.087 | 93   | 554706   | 41.805 | ng/u1  | 99       |
| 29) 2,4-Dichlorophenol        | 10.310 | 162  | 342599   | 45.591 | ng/u1  | 98       |
| 30) Naphthalene               | 10.710 | 128  | 1297333  | 41.640 | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.828 | 127  | 350169   | 28.591 | ng/u1  | 99       |
| 33) Hexachlorobutadiene       | 10.981 | 225  | 210793   | 45.451 | ng/u1  | 94       |
| 34) Caprolactam               | 11.616 | 113  | 110841m  | 44.326 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.957 | 107  | 396977   | 45.736 | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.328 | 142  | 837568   | 43.855 | ng/u1  | 98       |

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## Manual Integrations

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.545 | 142  | 810991   | 42.832 | ng/ul  | 97       |
| 39) 1,2,4,5-Tetrachloroben... | 12.692 | 216  | 381102   | 44.839 | ng/ul  | 97       |
| 40) Hexachlorocyclopentadiene | 12.663 | 237  | 187512   | 33.752 | ng/ul  | 98       |
| 41) 2,4,6-Trichlorophenol     | 12.939 | 196  | 229564   | 46.860 | ng/ul  | 99       |
| 42) 2,4,5-Trichlorophenol     | 13.010 | 196  | 263943   | 47.950 | ng/ul  | 94       |
| 43) 1,1'-Biphenyl             | 13.345 | 154  | 1049334  | 43.393 | ng/ul  | 98       |
| 44) 2-Chloronaphthalene       | 13.381 | 162  | 802199   | 42.684 | ng/ul  | 98       |
| 45) 2-Nitroaniline            | 13.598 | 65   | 268220   | 48.543 | ng/ul  | 95       |
| 47) Dimethylphthalate         | 13.980 | 163  | 966876   | 44.245 | ng/ul# | 99       |
| 48) 2,6-Dinitrotoluene        | 14.104 | 165  | 195310   | 49.947 | ng/ul  | 98       |
| 50) Acenaphthylene            | 14.228 | 152  | 1324620  | 43.536 | ng/ul  | 98       |
| 51) 3-Nitroaniline            | 14.428 | 138  | 213000   | 46.802 | ng/ul  | 95       |
| 52) Acenaphthene              | 14.569 | 153  | 870156   | 43.294 | ng/ul  | 95       |
| 53) 2,4-Dinitrophenol         | 14.633 | 184  | 85624    | 43.148 | ng/ul  | 99       |
| 55) 4-Nitrophenol             | 14.733 | 109  | 165644   | 44.709 | ng/ul  | 95       |
| 56) Dibenzofuran              | 14.910 | 168  | 1142198  | 43.036 | ng/ul  | 98       |
| 57) 2,4-Dinitrotoluene        | 14.886 | 165  | 280932   | 51.029 | ng/ul  | 95       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.133 | 232  | 188362   | 48.215 | ng/ul  | 98       |
| 59) Diethylphthalate          | 15.345 | 149  | 1026274  | 45.719 | ng/ul  | 98       |
| 61) Fluorene                  | 15.557 | 166  | 949952   | 45.281 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.557 | 204  | 433980   | 46.251 | ng/ul  | 96       |
| 63) 4-Nitroaniline            | 15.592 | 138  | 222461   | 54.159 | ng/ul  | 95       |
| 66) 4,6-Dinitro-2-methylph... | 15.645 | 198  | 145179   | 46.224 | ng/ul  | 93       |
| 67) N-Nitrosodiphenylamine    | 15.775 | 169  | 792205   | 43.482 | ng/ul  | 99       |
| 68) 4-Bromophenyl-phenylether | 16.457 | 248  | 246513   | 44.546 | ng/ul  | 89       |
| 69) Hexachlorobenzene         | 16.551 | 284  | 286001   | 45.852 | ng/ul  | 98       |
| 70) Atrazine                  | 16.739 | 200  | 129888   | 22.819 | ng/ul  | 98       |
| 71) Pentachlorophenol         | 16.904 | 266  | 157308   | 43.426 | ng/ul  | 94       |
| 72) Phenanthrene              | 17.304 | 178  | 1455923  | 43.048 | ng/ul  | 100      |
| 74) Anthracene                | 17.392 | 178  | 1464195  | 43.138 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.298 | 216  | 368910   | 42.999 | ng/ul  | 97       |
| 76) Pentachlorobenzene        | 14.822 | 250  | 343770   | 44.748 | ng/ul  | 97       |
| 77) Carbazole                 | 17.669 | 167  | 1371926  | 44.253 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.245 | 149  | 1792774  | 48.089 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.321 | 202  | 1657140  | 43.901 | ng/ul  | 99       |
| 82) Pyrene                    | 19.686 | 202  | 1764292  | 44.182 | ng/ul  | 96       |
| 83) Butylbenzylphthalate      | 20.610 | 149  | 805699   | 49.507 | ng/ul  | 94       |
| 84) 3,3'-Dichlorobenzidine    | 21.386 | 252  | 435397   | 43.412 | ng/ul  | 97       |
| 85) Benzo(a)anthracene        | 21.445 | 228  | 1661032  | 43.667 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.392 | 149  | 1248263  | 49.586 | ng/ul  | 100      |
| 87) Chrysene                  | 21.498 | 228  | 1606066  | 45.053 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.321 | 149  | 2169231  | 49.187 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.109 | 252  | 1719169  | 47.973 | ng/ul  | 97       |
| 91) Benzo(k)fluoranthene      | 23.156 | 252  | 1634447  | 44.560 | ng/ul  | 94       |
| 93) Benzo(a)pyrene            | 23.721 | 252  | 1594593  | 46.399 | ng/ul  | 96       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.274 | 276  | 1843752  | 44.057 | ng/ul  | 99       |
| 95) Dibenzo(a,h)anthracene    | 26.297 | 278  | 1498408  | 43.858 | ng/ul  | 97       |
| 96) Benzo(g,h,i)perylene      | 27.015 | 276  | 1516793  | 43.335 | ng/ul  | 95       |

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

