

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN012022\  
 Data File : BN018438.D  
 Acq On : 20 Jan 2022 14:45  
 Operator : CG/JU  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD020284

Quant Time: Jan 20 15:52:21 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN010622.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jan 07 01:31:51 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 01/20/2022  
 Supervised By :mohammad ahmed 01/21/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.581  | 152  | 320599   | 20.000 | ng/ul  | -0.01    |
| 20) Naphthalene-d8            | 10.363 | 136  | 1452174  | 20.000 | ng/ul  | #-0.01   |
| 38) Acenaphthene-d10          | 14.234 | 164  | 885857   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 16.981 | 188  | 1834511  | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.174 | 240  | 1690509  | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 23.392 | 264  | 1668408  | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.058  | 96   | 55222    | 6.924  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.458  | 84   | 488702   | 19.580 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 6.769  | 99   | 634261   | 20.356 | ng/ul  | -0.01    |
| 9) Bis-(2-Chloroethyl)eth...  | 6.922  | 67   | 379097   | 19.100 | ng/ul  | -0.01    |
| 11) 2-Chlorophenol-d4         | 7.116  | 132  | 494840   | 21.681 | ng/ul  | -0.01    |
| 15) 4-Methylphenol-d8         | 8.305  | 113  | 519682   | 21.131 | ng/ul  | -0.01    |
| 21) Nitrobenzene-d5           | 8.734  | 128  | 249321   | 23.052 | ng/ul  | -0.01    |
| 24) 2-Nitrophenol-d4          | 9.452  | 143  | 275518   | 23.831 | ng/ul  | -0.01    |
| 28) 2,4-Dichlorophenol-d3     | 9.993  | 165  | 488302   | 23.247 | ng/ul  | -0.01    |
| 31) 4-Chloroaniline-d4        | 10.504 | 131  | 688979   | 21.343 | ng/ul  | -0.01    |
| 46) Dimethylphthalate-d6      | 13.651 | 166  | 1481449  | 23.024 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 13.922 | 160  | 1840286  | 22.625 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.451 | 143  | 250137   | 20.372 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.228 | 176  | 1203194  | 22.164 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.357 | 200  | 216117   | 20.820 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.075 | 188  | 1797509  | 21.156 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.375 | 212  | 2135395  | 22.020 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.251 | 264  | 1980335  | 23.850 | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.093  | 88   | 60811    | 6.777  | ng/uL  | 95       |
| 5) Pyridine                   | 3.475  | 79   | 496288   | 19.119 | ng/ul  | 96       |
| 6) Benzaldehyde               | 6.722  | 77   | 433520   | 21.906 | ng/ul  | 97       |
| 8) Phenol                     | 6.793  | 94   | 658446   | 20.276 | ng/ul# | 86       |
| 10) Bis(2-Chloroethyl)ether   | 7.016  | 93   | 526528   | 20.110 | ng/ul  | 94       |
| 12) 2-Chlorophenol            | 7.152  | 128  | 523118   | 21.720 | ng/ul  | 92       |
| 13) 2-Methylphenol            | 8.040  | 108  | 503559   | 20.612 | ng/ul  | 94       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.116  | 45   | 587042   | 16.895 | ng/ul# | 93       |
| 16) Acetophenone              | 8.399  | 105  | 826281   | 21.933 | ng/ul  | 93       |
| 17) N-Nitroso-di-n-propyla... | 8.393  | 70   | 436868   | 21.224 | ng/ul  | 90       |
| 18) 4-Methylphenol            | 8.363  | 108  | 536039   | 20.449 | ng/ul  | 96       |
| 19) Hexachloroethane          | 8.658  | 117  | 224845   | 22.509 | ng/ul# | 77       |
| 22) Nitrobenzene              | 8.775  | 77   | 671587   | 23.504 | ng/ul  | 99       |
| 23) Isophorone                | 9.299  | 82   | 1240679  | 21.619 | ng/ul  | 97       |
| 25) 2-Nitrophenol             | 9.487  | 139  | 301090   | 23.393 | ng/ul# | 93       |
| 26) 2,4-Dimethylphenol        | 9.563  | 107  | 657500   | 23.035 | ng/ul  | 94       |
| 27) Bis(2-Chloroethoxy)met... | 9.793  | 93   | 724763   | 20.302 | ng/ul  | 99       |
| 29) 2,4-Dichlorophenol        | 10.022 | 162  | 500066   | 23.504 | ng/ul  | 97       |
| 30) Naphthalene               | 10.416 | 128  | 1686913  | 21.232 | ng/ul  | 99       |
| 32) 4-Chloroaniline           | 10.528 | 127  | 710873   | 21.562 | ng/ul  | 98       |
| 33) Hexachlorobutadiene       | 10.710 | 225  | 297426   | 25.636 | ng/ul  | 97       |
| 34) Caprolactam               | 11.269 | 113  | 165390   | 19.776 | ng/ul  | 84       |
| 35) 4-Chloro-3-methylphenol   | 11.669 | 107  | 611165   | 22.954 | ng/ul  | 92       |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 36) 2-Methylnaphthalene       | 12.040 | 142  | 1168195  | 22.035 | ng/ul  | 97       |
| 37) 1-Methylnaphthalene       | 12.257 | 142  | 1192955  | 21.624 | ng/ul# | 97       |
| 39) 1,2,4,5-Tetrachloroben... | 12.416 | 216  | 545600   | 24.012 | ng/ul# | 93       |
| 40) Hexachlorocyclopentadiene | 12.399 | 237  | 315777   | 24.197 | ng/ul  | 98       |
| 41) 2,4,6-Trichlorophenol     | 12.663 | 196  | 373851   | 24.259 | ng/ul  | 99       |
| 42) 2,4,5-Trichlorophenol     | 12.734 | 196  | 405378   | 24.815 | ng/ul  | 98       |
| 43) 1,1'-Biphenyl             | 13.063 | 154  | 1557796  | 22.580 | ng/ul  | 98       |
| 44) 2-Chloronaphthalene       | 13.098 | 162  | 1183336  | 22.955 | ng/ul# | 92       |
| 45) 2-Nitroaniline            | 13.310 | 65   | 411269   | 25.490 | ng/ul  | 98       |
| 47) Dimethylphthalate         | 13.698 | 163  | 1486109  | 22.757 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 13.816 | 165  | 294359   | 23.786 | ng/ul# | 80       |
| 50) Acenaphthylene            | 13.951 | 152  | 1876628  | 21.894 | ng/ul  | 100      |
| 51) 3-Nitroaniline            | 14.140 | 138  | 313595   | 22.540 | ng/ul  | 97       |
| 52) Acenaphthene              | 14.298 | 153  | 1218552  | 21.574 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 14.351 | 184  | 144114   | 20.676 | ng/ul# | 66       |
| 55) 4-Nitrophenol             | 14.463 | 109  | 275433   | 26.257 | ng/ul# | 73       |
| 56) Dibenzofuran              | 14.634 | 168  | 1703876  | 21.754 | ng/ul# | 88       |
| 57) 2,4-Dinitrotoluene        | 14.604 | 165  | 429831   | 24.140 | ng/ul# | 76       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.863 | 232  | 322338   | 24.478 | ng/ul# | 75       |
| 59) Diethylphthalate          | 15.075 | 149  | 1563752  | 23.195 | ng/ul  | 97       |
| 61) Fluorene                  | 15.281 | 166  | 1317682  | 21.845 | ng/ul  | 96       |
| 62) 4-Chlorophenyl-phenyle... | 15.281 | 204  | 611574   | 22.675 | ng/ul# | 78       |
| 63) 4-Nitroaniline            | 15.304 | 138  | 289186m  | 23.303 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.369 | 198  | 222881   | 21.064 | ng/ul# | 69       |
| 67) N-Nitrosodiphenylamine    | 15.498 | 169  | 1153812  | 20.292 | ng/ul  | 96       |
| 68) 4-Bromophenyl-phenylether | 16.175 | 248  | 394427   | 22.172 | ng/ul# | 80       |
| 69) Hexachlorobenzene         | 16.292 | 284  | 468508   | 21.969 | ng/ul# | 86       |
| 70) Atrazine                  | 16.457 | 200  | 424663   | 22.775 | ng/ul  | 94       |
| 71) Pentachlorophenol         | 16.639 | 266  | 272254   | 22.366 | ng/ul  | 93       |
| 72) Phenanthrene              | 17.016 | 178  | 2174420  | 20.858 | ng/ul  | 100      |
| 74) Anthracene                | 17.110 | 178  | 2060354  | 19.909 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.028 | 216  | 605067   | 23.099 | ng/uL  | 99       |
| 76) Pentachlorobenzene        | 14.557 | 250  | 549825   | 22.450 | ng/uL  | 94       |
| 77) Carbazole                 | 17.381 | 167  | 1941390  | 21.313 | ng/ul# | 95       |
| 78) Di-n-butylphthalate       | 17.963 | 149  | 2665067  | 23.801 | ng/ul# | 98       |
| 80) Fluoranthene              | 19.039 | 202  | 2549310  | 21.688 | ng/ul  | 96       |
| 82) Pyrene                    | 19.404 | 202  | 2523192  | 21.068 | ng/ul# | 95       |
| 83) Butylbenzylphthalate      | 20.327 | 149  | 1257145  | 25.321 | ng/ul# | 93       |
| 84) 3,3'-Dichlorobenzidine    | 21.098 | 252  | 854960   | 26.237 | ng/ul# | 97       |
| 85) Benzo(a)anthracene        | 21.163 | 228  | 2388335  | 21.583 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.116 | 149  | 1914344  | 25.350 | ng/ul# | 95       |
| 87) Chrysene                  | 21.216 | 228  | 2290557  | 21.018 | ng/ul  | 100      |
| 89) Di-n-octyl phthalate      | 21.986 | 149  | 3199657  | 26.764 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 22.727 | 252  | 2606713  | 24.371 | ng/ul# | 97       |
| 91) Benzo(k)fluoranthene      | 22.769 | 252  | 2340440  | 23.595 | ng/ul# | 98       |
| 93) Benzo(a)pyrene            | 23.298 | 252  | 2289308  | 22.445 | ng/ul# | 93       |
| 94) Indeno(1,2,3-cd)pyrene    | 25.645 | 276  | 2281240  | 20.223 | ng/ul# | 85       |
| 95) Dibenzo(a,h)anthracene    | 25.663 | 278  | 1976160  | 20.776 | ng/ul  | 97       |
| 96) Benzo(g,h,i)perylene      | 26.327 | 276  | 1887308  | 19.968 | ng/ul# | 92       |

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

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**Manual Integrations**

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