

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP121624\  
 Data File : BP023468.D  
 Acq On : 17 Dec 2024 16:13  
 Operator : RC/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SSTD020754

Quant Time: Dec 17 23:40:48 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP112624.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 11 00:30:30 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/18/2024  
 Supervised By :mohammad ahmed 12/19/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.534  | 152  | 257668   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.275 | 136  | 944363   | 20.000 | ng/u1  | # 0.00   |
| 38) Acenaphthene-d10          | 14.151 | 164  | 649674   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 16.951 | 188  | 1376356  | 20.000 | ng/u1  | # 0.00   |
| 79) Chrysene-d12              | 21.380 | 240  | 1406283  | 20.000 | ng/u1  | # 0.00   |
| 88) Perylene-d12              | 24.556 | 264  | 1489565  | 20.000 | ng/u1  | -0.02    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.093  | 96   | 50136    | 7.164  | ng/uL  | -0.01    |
| 4) Pyridine-d5                | 3.505  | 84   | 335838   | 18.661 | ng/u1  | -0.01    |
| 7) Phenol-d5                  | 6.746  | 99   | 400914   | 19.830 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.887  | 67   | 268716   | 21.067 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.081  | 132  | 293596   | 19.676 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.251  | 113  | 304244   | 18.646 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.675  | 128  | 140442   | 19.915 | ng/u1  | -0.01    |
| 24) 2-Nitrophenol-d4          | 9.381  | 143  | 166489   | 20.485 | ng/u1  | -0.01    |
| 28) 2,4-Dichlorophenol-d3     | 9.928  | 165  | 326773   | 19.050 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.428 | 131  | 375715   | 19.552 | ng/u1  | -0.01    |
| 46) Dimethylphthalate-d6      | 13.551 | 166  | 923204   | 18.305 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.839 | 160  | 1045139  | 19.647 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.433 | 143  | 92312    | 14.936 | ng/u1  | 0.02     |
| 60) Fluorene-d10              | 15.157 | 176  | 802099   | 18.081 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.316 | 200  | 138580   | 16.660 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.057 | 188  | 1280812  | 20.390 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.439 | 212  | 1528815  | 20.808 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.345 | 264  | 1516467  | 19.018 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.128  | 88   | 53972    | 6.970  | ng/uL  | 94       |
| 5) Pyridine                   | 3.522  | 79   | 350276   | 19.054 | ng/u1  | 94       |
| 6) Benzaldehyde               | 6.704  | 77   | 254334m  | 22.005 | ng/u1  |          |
| 8) Phenol                     | 6.769  | 94   | 427306   | 20.302 | ng/u1# | 85       |
| 10) Bis(2-Chloroethyl)ether   | 6.975  | 93   | 346233   | 20.840 | ng/u1  | 99       |
| 12) 2-Chlorophenol            | 7.110  | 128  | 307342   | 19.648 | ng/u1  | 98       |
| 13) 2-Methylphenol            | 7.987  | 108  | 301041   | 19.286 | ng/u1  | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.040  | 45   | 439973   | 21.776 | ng/u1  | 98       |
| 16) Acetophenone              | 8.346  | 105  | 504430   | 18.367 | ng/u1  | 98       |
| 17) N-Nitroso-di-n-propyla... | 8.322  | 70   | 267708   | 17.890 | ng/u1  | 94       |
| 18) 4-Methylphenol            | 8.316  | 108  | 325154   | 19.300 | ng/u1  | 92       |
| 19) Hexachloroethane          | 8.581  | 117  | 142813   | 18.751 | ng/u1  | 90       |
| 22) Nitrobenzene              | 8.716  | 77   | 416434   | 19.407 | ng/u1  | 98       |
| 23) Isophorone                | 9.234  | 82   | 749897   | 19.731 | ng/u1  | 97       |
| 25) 2-Nitrophenol             | 9.410  | 139  | 174289   | 20.076 | ng/u1# | 84       |
| 26) 2,4-Dimethylphenol        | 9.487  | 107  | 359285   | 18.689 | ng/u1  | 97       |
| 27) Bis(2-Chloroethoxy)met... | 9.704  | 93   | 451106   | 21.008 | ng/u1  | 99       |
| 29) 2,4-Dichlorophenol        | 9.957  | 162  | 322046   | 18.943 | ng/u1  | 98       |
| 30) Naphthalene               | 10.322 | 128  | 948596   | 19.188 | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.451 | 127  | 365491   | 19.615 | ng/u1  | 100      |
| 33) Hexachlorobutadiene       | 10.593 | 225  | 251851   | 16.701 | ng/u1  | 98       |
| 34) Caprolactam               | 11.245 | 113  | 92028m   | 18.552 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.598 | 107  | 333823   | 18.084 | ng/u1  | 93       |
| 36) 2-Methylnaphthalene       | 11.934 | 142  | 675510   | 18.426 | ng/u1  | 97       |

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Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.157 | 142  | 673038   | 18.015 | ng/ul  | 96       |
| 39) 1,2,4,5-Tetrachloroben... | 12.316 | 216  | 449221   | 18.948 | ng/ul  | 97       |
| 40) Hexachlorocyclopentadiene | 12.275 | 237  | 216739   | 19.027 | ng/ul  | 97       |
| 41) 2,4,6-Trichlorophenol     | 12.569 | 196  | 279208   | 19.901 | ng/ul  | 100      |
| 42) 2,4,5-Trichlorophenol     | 12.669 | 196  | 289880   | 19.338 | ng/ul  | 99       |
| 43) 1,1'-Biphenyl             | 12.957 | 154  | 911434   | 19.800 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 13.004 | 162  | 742338   | 19.937 | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 13.239 | 65   | 211998   | 19.652 | ng/ul  | 88       |
| 47) Dimethylphthalate         | 13.592 | 163  | 904598   | 18.208 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 13.739 | 165  | 183180   | 19.243 | ng/ul  | 93       |
| 50) Acenaphthylene            | 13.863 | 152  | 1079514  | 19.927 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.086 | 138  | 168782   | 21.155 | ng/ul  | 100      |
| 52) Acenaphthene              | 14.204 | 153  | 756115   | 19.095 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.310 | 184  | 114195   | 18.603 | ng/ul  | 95       |
| 55) 4-Nitrophenol             | 14.451 | 109  | 129783   | 15.587 | ng/ul# | 74       |
| 56) Dibenzofuran              | 14.551 | 168  | 1096170  | 18.229 | ng/ul  | 94       |
| 57) 2,4-Dinitrotoluene        | 14.551 | 165  | 269447   | 17.565 | ng/ul  | 98       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.804 | 232  | 249073   | 16.737 | ng/ul# | 98       |
| 59) Diethylphthalate          | 14.981 | 149  | 891234   | 17.987 | ng/ul  | 98       |
| 61) Fluorene                  | 15.222 | 166  | 881447   | 18.002 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.210 | 204  | 475061   | 16.728 | ng/ul  | 99       |
| 63) 4-Nitroaniline            | 15.269 | 138  | 154058   | 21.954 | ng/ul# | 79       |
| 66) 4,6-Dinitro-2-methylph... | 15.333 | 198  | 149793   | 16.975 | ng/ul  | 99       |
| 67) N-Nitrosodiphenylamine    | 15.433 | 169  | 754252   | 21.460 | ng/ul  | 100      |
| 68) 4-Bromophenyl-phenylether | 16.116 | 248  | 300263   | 18.480 | ng/ul  | 98       |
| 69) Hexachlorobenzene         | 16.245 | 284  | 335458   | 16.853 | ng/ul  | 96       |
| 70) Atrazine                  | 16.410 | 200  | 314726   | 20.578 | ng/ul  | 98       |
| 71) Pentachlorophenol         | 16.622 | 266  | 200042   | 17.218 | ng/ul  | 97       |
| 72) Phenanthrene              | 16.998 | 178  | 1437291  | 20.199 | ng/ul  | 99       |
| 74) Anthracene                | 17.086 | 178  | 1450484  | 20.387 | ng/ul  | 100      |
| 75) 1,2,3,4-Tetrachloroben... | 12.922 | 216  | 434056   | 21.878 | ng/ul  | 100      |
| 76) Pentachlorobenzene        | 14.475 | 250  | 422751   | 19.332 | ng/ul  | 99       |
| 77) Carbazole                 | 17.386 | 167  | 1293970  | 22.323 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 17.957 | 149  | 1514336  | 21.262 | ng/ul  | 98       |
| 80) Fluoranthene              | 19.092 | 202  | 1852759  | 22.007 | ng/ul# | 91       |
| 82) Pyrene                    | 19.469 | 202  | 1905264  | 21.326 | ng/ul# | 92       |
| 83) Butylbenzylphthalate      | 20.421 | 149  | 720510   | 23.286 | ng/ul  | 97       |
| 84) 3,3'-Dichlorobenzidine    | 21.298 | 252  | 568301   | 17.611 | ng/ul# | 99       |
| 85) Benzo(a)anthracene        | 21.363 | 228  | 1823285  | 19.335 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 1027084  | 23.115 | ng/ul  | 100      |
| 87) Chrysene                  | 21.433 | 228  | 1672220  | 18.504 | ng/ul  | 100      |
| 89) Di-n-octyl phthalate      | 22.492 | 149  | 1781351  | 24.486 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.562 | 252  | 1791841  | 19.146 | ng/ul# | 97       |
| 91) Benzo(k)fluoranthene      | 23.633 | 252  | 1715432  | 18.422 | ng/ul# | 98       |
| 93) Benzo(a)pyrene            | 24.415 | 252  | 1659843  | 19.561 | ng/ul# | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.145 | 276  | 2071680  | 18.998 | ng/ul# | 94       |
| 95) Dibenzo(a,h)anthracene    | 28.203 | 278  | 1656454  | 18.981 | ng/ul# | 97       |
| 96) Benzo(g,h,i)perylene      | 29.256 | 276  | 1599250  | 19.155 | ng/ul# | 95       |

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

