

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN021220\  
 Data File : BN009715.D  
 Acq On : 12 Feb 2020 16:00  
 Operator : CG/JU  
 Sample : SSTD08052  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTD08052

Manual Integrations  
 APPROVED

mohammad  
 2/13/2020 3:34:46 PM

Quant Time: Feb 12 17:53:44 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Feb 12 17:23:41 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.42  | 152  | 115065   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.17 | 136  | 474077   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.06 | 164  | 304464   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.82 | 188  | 660067   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.04 | 240  | 620100   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.14 | 264  | 658524   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.05  | 96  | 86654   | 32.16 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.62  | 99  | 785962  | 85.14 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.78  | 67  | 526172  | 80.91 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.96  | 132 | 603465  | 82.86 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.14  | 113 | 620387  | 82.79 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.56  | 128 | 296118  | 86.07 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.28  | 143 | 342168  | 91.17 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.81  | 165 | 615372  | 85.11 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.32 | 131 | 692137  | 86.87 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.49 | 166 | 1815271 | 81.25 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.75 | 160 | 2233431 | 84.01 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.30 | 143 | 353126  | 92.35 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.07 | 176 | 1592834 | 82.72 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.22 | 200 | 354508  | 95.59 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 16.92 | 188 | 2443026 | 81.67 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.23 | 212 | 2702229 | 82.98 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.02 | 264 | 2730256 | 82.75 | ng/ul | 0.01 |

## Target Compounds

|                                |       |     |         |        | Ovalue |     |
|--------------------------------|-------|-----|---------|--------|--------|-----|
| 2) 1,4-Dioxane                 | 3.08  | 88  | 95626   | 30.676 | ng/uL  | 95  |
| 4) Benzaldehyde                | 6.58  | 77  | 531038  | 79.663 | ng/ul  | 94  |
| 6) Phenol                      | 6.65  | 94  | 832566  | 82.594 | ng/ul  | 99  |
| 8) Bis(2-Chloroethyl)ether     | 6.87  | 93  | 649521  | 80.977 | ng/ul  | 99  |
| 10) 2-Chlorophenol             | 6.99  | 128 | 635497  | 83.301 | ng/ul  | 98  |
| 11) 2-Methylphenol             | 7.87  | 108 | 612273  | 83.395 | ng/ul  | 97  |
| 12) 2,2'-oxybis(1-Chloropropan | 7.96  | 45  | 1546684 | 77.380 | ng/ul  | 99  |
| 14) Acetophenone               | 8.24  | 105 | 996688  | 82.183 | ng/ul  | 95  |
| 15) N-Nitroso-di-n-propylamine | 8.24  | 70  | 547257  | 82.231 | ng/ul  | 97  |
| 16) 4-Methylphenol             | 8.20  | 108 | 664675  | 82.683 | ng/ul  | 96  |
| 17) Hexachloroethane           | 8.47  | 117 | 281396  | 81.268 | ng/ul  | 98  |
| 20) Nitrobenzene               | 8.61  | 77  | 820676  | 81.748 | ng/ul  | 94  |
| 21) Isophorone                 | 9.13  | 82  | 1495117 | 82.605 | ng/ul  | 98  |
| 23) 2-Nitrophenol              | 9.30  | 139 | 363952  | 86.319 | ng/ul  | 98  |
| 24) 2,4-Dimethylphenol         | 9.38  | 107 | 749054  | 82.334 | ng/ul  | 97  |
| 25) Bis(2-Chloroethoxy)methane | 9.62  | 93  | 876833  | 80.865 | ng/ul  | 97  |
| 27) 2,4-Dichlorophenol         | 9.83  | 162 | 618648  | 83.008 | ng/ul  | 96  |
| 28) Naphthalene                | 10.22 | 128 | 2004629 | 79.648 | ng/ul  | 99  |
| 30) 4-Chloroaniline            | 10.35 | 127 | 709149  | 86.630 | ng/ul  | 99  |
| 31) Hexachlorobutadiene        | 10.51 | 225 | 385773  | 80.645 | ng/ul  | 95  |
| 32) Caprolactam                | 11.14 | 113 | 213183m | 90.644 | ng/ul  |     |
| 33) 4-Chloro-3-methylphenol    | 11.49 | 107 | 707196  | 82.824 | ng/ul  | 98  |
| 34) 2-Methylnaphthalene        | 11.84 | 142 | 1417577 | 81.024 | ng/ul  | 100 |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 35) 1-Methylnaphthalene        | 12.06 | 142  | 1415235  | 81.423  | ng/uL  | 99       |
| 37) 1,2,4,5-Tetrachlorobenzene | 12.22 | 216  | 719868   | 82.969  | ng/uL  | 93       |
| 38) Hexachlorocyclopentadiene  | 12.20 | 237  | 365808   | 119.169 | ng/uL  | 95       |
| 39) 2,4,6-Trichlorophenol      | 12.47 | 196  | 489562   | 87.070  | ng/uL  | 94       |
| 40) 2,4,5-Trichlorophenol      | 12.55 | 196  | 511050   | 83.843  | ng/uL  | 98       |
| 41) 1,1'-Biphenyl              | 12.88 | 154  | 1856629  | 82.236  | ng/uL  | 98       |
| 42) 2-Chloronaphthalene        | 12.92 | 162  | 1456428  | 80.733  | ng/uL  | 97       |
| 43) 2-Nitroaniline             | 13.15 | 65   | 604806   | 89.244  | ng/uL  | 95       |
| 45) Dimethylphthalate          | 13.54 | 163  | 1874502  | 79.776  | ng/uL  | 99       |
| 46) 2,6-Dinitrotoluene         | 13.66 | 165  | 421571   | 90.284  | ng/uL  | 95       |
| 48) Acenaphthylene             | 13.78 | 152  | 2374905  | 82.561  | ng/uL  | 99       |
| 49) 3-Nitroaniline             | 13.99 | 138  | 369502   | 88.193  | ng/uL  | 99       |
| 50) Acenaphthene               | 14.12 | 153  | 1581607  | 81.205  | ng/uL  | 99       |
| 51) 2,4-Dinitrophenol          | 14.21 | 184  | 255351   | 118.256 | ng/uL  | 91       |
| 53) 4-Nitrophenol              | 14.32 | 109  | 312718   | 88.491  | ng/uL  | 97       |
| 54) Dibenzofuran               | 14.47 | 168  | 2178660  | 80.988  | ng/uL  | 95       |
| 55) 2,4-Dinitrotoluene         | 14.46 | 165  | 601719   | 86.673  | ng/uL  | 96       |
| 56) 2,3,4,6-Tetrachlorophenol  | 14.70 | 232  | 448012   | 84.642  | ng/uL  | 98       |
| 57) Diethylphthalate           | 14.92 | 149  | 1983013  | 82.955  | ng/uL  | 99       |
| 59) Fluorene                   | 15.12 | 166  | 1882511  | 83.289  | ng/uL  | 96       |
| 60) 4-Chlorophenyl-phenylether | 15.12 | 204  | 913748   | 81.412  | ng/uL  | 97       |
| 61) 4-Nitroaniline             | 15.17 | 138  | 451780m  | 87.783  | ng/uL  |          |
| 64) 4,6-Dinitro-2-methylphenol | 15.23 | 198  | 382639   | 94.552  | ng/uL# | 98       |
| 65) N-Nitrosodiphenylamine     | 15.35 | 169  | 1553847  | 81.452  | ng/uL  | 96       |
| 66) 4-Bromophenyl-phenylether  | 16.02 | 248  | 540196   | 81.471  | ng/uL  | 95       |
| 67) Hexachlorobenzene          | 16.13 | 284  | 588589   | 84.418  | ng/uL  | 93       |
| 68) Atrazine                   | 16.32 | 200  | 602178   | 86.072  | ng/uL  | 96       |
| 69) Pentachlorophenol          | 16.48 | 266  | 359972   | 92.881  | ng/uL  | 98       |
| 70) Phenanthrene               | 16.86 | 178  | 2994242  | 81.899  | ng/uL  | 98       |
| 72) Anthracene                 | 16.95 | 178  | 3075928  | 82.352  | ng/uL  | 100      |
| 73) 1,2,3,4-Tetrachlorobenzene | 12.85 | 216  | 767579   | 83.271  | ng/uL  | 98       |
| 74) Pentachlorobenzene         | 14.39 | 250  | 731667   | 80.355  | ng/uL  | 99       |
| 75) Carbazole                  | 17.23 | 167  | 2734417  | 83.175  | ng/uL  | 99       |
| 76) Di-n-butylphthalate        | 17.81 | 149  | 3553994  | 86.059  | ng/uL  | 100      |
| 77) Fluoranthene               | 18.89 | 202  | 3503264  | 82.694  | ng/uL  | 98       |
| 80) Pvrene                     | 19.26 | 202  | 3661089  | 83.660  | ng/uL  | 98       |
| 81) Butylbenzylphthalate       | 20.19 | 149  | 1642176  | 90.666  | ng/uL  | 94       |
| 82) 3,3'-Dichlorobenzidine     | 20.96 | 252  | 1140006  | 85.607  | ng/uL  | 91       |
| 83) Benzo(a)anthracene         | 21.02 | 228  | 3381756  | 79.256  | ng/uL  | 100      |
| 84) Bis(2-ethylhexyl)phthalate | 20.98 | 149  | 2497976  | 88.281  | ng/uL  | 97       |
| 85) Chrysene                   | 21.07 | 228  | 3355489  | 81.384  | ng/uL  | 97       |
| 87) Di-n-octyl phthalate       | 21.83 | 149  | 4233899  | 88.894  | ng/uL  | 100      |
| 88) Benzo(b)fluoranthene       | 22.53 | 252  | 3407559  | 80.009  | ng/uL  | 100      |
| 89) Benzo(k)fluoranthene       | 22.57 | 252  | 3260334  | 80.841  | ng/uL  | 99       |
| 91) Benzo(a)pyrene             | 23.06 | 252  | 3153830  | 82.873  | ng/uL  | 99       |
| 92) Indeno(1,2,3-cd)pyrene     | 25.23 | 276  | 3785793  | 84.371  | ng/uL  | 96       |
| 93) Dibenzo(a,h)anthracene     | 25.23 | 278  | 3187819  | 82.168  | ng/uL  | 97       |
| 94) Benzo(a,h,i)perylene       | 25.84 | 276  | 3153327  | 83.324  | ng/uL  | 98       |

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

