

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM020719\  
 Data File : BM018735.D  
 Acq On : 07 Feb 2019 13:11  
 Operator : JU/SJ  
 Sample : PB116893BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB116893BS

Manual Integrations  
 APPROVED

Sohil  
 2/11/2019 5:02:52 PM

Quant Time: Feb 08 10:48:56 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 04 15:10:38 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.72  | 152  | 288016   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.50 | 136  | 1064546  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.37 | 164  | 526774   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.12 | 188  | 1018672  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.31 | 240  | 865101   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 23.57 | 264  | 831887   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.31  | 112 | 2327709 | 149.23 | ng | 0.00 |
| 7) Phenol-d6             | 6.89  | 99  | 2831185 | 142.91 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 8.89  | 82  | 1429175 | 77.83  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.86 | 330 | 921502  | 137.39 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 12.98 | 172 | 3305471 | 81.88  | ng | 0.00 |
| 79) Terphenyl-d14        | 19.75 | 244 | 3920881 | 95.54  | ng | 0.00 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.26  | 88  | 246373  | 38.754 | ng | 98     |
| 3) Pyridine                    | 3.66  | 79  | 639123  | 40.324 | ng | 97     |
| 4) n-Nitrosodimethylamine      | 3.58  | 42  | 313952  | 47.902 | ng | # 94   |
| 6) Aniline                     | 7.06  | 93  | 781959  | 35.384 | ng | 100    |
| 8) 2-Chlorophenol              | 7.29  | 128 | 767736  | 42.144 | ng | 95     |
| 9) Benzaldehyde                | 6.87  | 77  | 350996  | 28.405 | ng | 99     |
| 10) Phenol                     | 6.92  | 94  | 831531  | 41.305 | ng | 100    |
| 11) bis(2-Chloroethyl)ether    | 7.16  | 93  | 620978  | 39.257 | ng | 97     |
| 12) 1,3-Dichlorobenzene        | 7.60  | 146 | 859862  | 39.634 | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 7.75  | 146 | 868974  | 39.519 | ng | 99     |
| 14) 1,2-Dichlorobenzene        | 8.06  | 146 | 830574  | 39.835 | ng | 99     |
| 15) Benzyl Alcohol             | 7.96  | 79  | 565789  | 39.541 | ng | 98     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.25  | 45  | 840444  | 41.575 | ng | 96     |
| 17) 2-Methylphenol             | 8.16  | 107 | 564785  | 41.330 | ng | 98     |
| 18) Hexachloroethane           | 8.78  | 117 | 304299  | 38.813 | ng | 98     |
| 19) n-Nitroso-di-n-propylamine | 8.53  | 70  | 475002  | 36.843 | ng | 92     |
| 20) 3+4-Methylphenols          | 8.49  | 107 | 750574  | 39.788 | ng | 99     |
| 22) Acetophenone               | 8.55  | 105 | 994459  | 37.763 | ng | # 97   |
| 24) Nitrobenzene               | 8.93  | 77  | 735022  | 40.680 | ng | 97     |
| 25) Isophorone                 | 9.45  | 82  | 1221138 | 43.914 | ng | 98     |
| 26) 2-Nitrophenol              | 9.63  | 139 | 383175  | 43.858 | ng | 98     |
| 27) 2,4-Dimethylphenol         | 9.69  | 122 | 617092  | 47.123 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 9.93  | 93  | 790093  | 41.130 | ng | 100    |
| 29) 2,4-Dichlorophenol         | 10.16 | 162 | 653637  | 41.918 | ng | 99     |
| 30) 1,2,4-Trichlorobenzene     | 10.37 | 180 | 765104  | 39.530 | ng | 99     |
| 31) Naphthalene                | 10.56 | 128 | 2210976 | 43.125 | ng | 99     |
| 32) Benzoic acid               | 9.83  | 122 | 342882  | 40.123 | ng | 98     |
| 33) 4-Chloroaniline            | 10.68 | 127 | 302861  | 15.000 | ng | 99     |
| 34) Hexachlorobutadiene        | 10.82 | 225 | 460677  | 37.676 | ng | 99     |
| 35) Caprolactam                | 11.49 | 113 | 159625m | 30.109 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 11.80 | 107 | 626603  | 38.302 | ng | 98     |
| 37) 2-Methylnaphthalene        | 12.17 | 142 | 1542624 | 42.587 | ng | 99     |
| 38) 1-Methylnaphthalene        | 12.39 | 142 | 1457193 | 41.576 | ng | 98     |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.54 | 216 | 790888  | 42.934 | ng | 99     |

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM020719\  
 Data File : BM018735.D  
 Acq On : 07 Feb 2019 13:11  
 Operator : JU/SJ  
 Sample : PB116893BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB116893BS

Manual Integrations  
 APPROVED

Sohil  
 2/11/2019 5:02:52 PM

Quant Time: Feb 08 10:48:56 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 04 15:10:38 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.51 | 237  | 1066338  | 105.474 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol      | 12.79 | 196  | 495609   | 44.305  | ng    | 99       |
| 44) 2,4,5-Trichlorophenol      | 12.86 | 196  | 512236   | 43.540  | ng    | 97       |
| 46) 1,1'-Biphenyl              | 13.20 | 154  | 1892942  | 41.155  | ng    | 99       |
| 47) 2-Chloronaphthalene        | 13.24 | 162  | 1473421  | 41.310  | ng    | 99       |
| 48) 2-Nitroaniline             | 13.46 | 65   | 345903   | 39.419  | ng    | 96       |
| 49) Acenaphthylene             | 14.09 | 152  | 2266239  | 43.599  | ng    | 99       |
| 50) Dimethylphthalate          | 13.83 | 163  | 1661409  | 38.403  | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 13.96 | 165  | 363182   | 39.631  | ng    | 94       |
| 52) Acenaphthene               | 14.43 | 154  | 1299916  | 40.873  | ng    | 98       |
| 53) 3-Nitroaniline             | 14.29 | 138  | 205539   | 22.247  | ng    | 96       |
| 54) 2,4-Dinitrophenol          | 14.50 | 184  | 343935   | 70.289  | ng    | 92       |
| 55) Dibenzofuran               | 14.77 | 168  | 2064822  | 39.293  | ng    | 100      |
| 56) 4-Nitrophenol              | 14.60 | 139  | 549326   | 68.826  | ng    | 98       |
| 57) 2,4-Dinitrotoluene         | 14.74 | 165  | 480905   | 37.090  | ng    | 100      |
| 58) Fluorene                   | 15.42 | 166  | 1605641  | 41.018  | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol  | 14.99 | 232  | 430982   | 41.329  | ng    | 98       |
| 60) Diethylphthalate           | 15.20 | 149  | 1618467  | 37.058  | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.42 | 204  | 831387   | 36.850  | ng    | 96       |
| 62) 4-Nitroaniline             | 15.46 | 138  | 297257   | 29.498  | ng    | 97       |
| 63) Azobenzene                 | 15.70 | 77   | 1364139  | 38.310  | ng    | 98       |
| 65) 4,6-Dinitro-2-methylphenol | 15.50 | 198  | 245169   | 38.910  | ng    | 93       |
| 66) n-Nitrosodiphenylamine     | 15.63 | 169  | 1368328  | 43.303  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether  | 16.31 | 248  | 474553   | 41.629  | ng    | 98       |
| 68) Hexachlorobenzene          | 16.41 | 284  | 528679   | 41.427  | ng    | 100      |
| 69) Atrazine                   | 16.59 | 200  | 446519   | 39.088  | ng    | 99       |
| 70) Pentachlorophenol          | 16.76 | 266  | 606339   | 72.547  | ng    | 99       |
| 71) Phenanthrene               | 17.16 | 178  | 2309776  | 42.629  | ng    | 100      |
| 72) Anthracene                 | 17.25 | 178  | 2341948  | 44.949  | ng    | 100      |
| 73) Carbazole                  | 17.53 | 167  | 1997449  | 37.315  | ng    | 100      |
| 74) Di-n-butylphthalate        | 18.08 | 149  | 2395157  | 40.848  | ng    | 99       |
| 75) Fluoranthene               | 19.18 | 202  | 2434031  | 38.964  | ng    | 98       |
| 77) Benzidine                  | 19.38 | 184  | 870162   | 40.737  | ng    | 100      |
| 78) Pyrene                     | 19.54 | 202  | 2469121  | 48.151  | ng    | 99       |
| 80) Butylbenzylphthalate       | 20.44 | 149  | 946448   | 43.254  | ng    | 99       |
| 81) Benzo(a)anthracene         | 21.29 | 228  | 2234212  | 43.839  | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine     | 21.23 | 252  | 543824   | 28.218  | ng    | 100      |
| 83) Chrysene                   | 21.34 | 228  | 2109104  | 42.856  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 21.22 | 149  | 1310501  | 41.476  | ng    | 99       |
| 85) Di-n-octyl phthalate       | 22.10 | 149  | 2196011  | 41.323  | ng    | 96       |
| 86) Indeno(1,2,3-cd)pyrene     | 25.86 | 276  | 2447426  | 43.127  | ng    | 98       |
| 88) Benzo(b)fluoranthene       | 22.89 | 252  | 2085978  | 44.168  | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 22.93 | 252  | 2070397  | 43.500  | ng    | 99       |
| 90) Benzo(a)pyrene             | 23.47 | 252  | 2044751  | 45.224  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 25.87 | 278  | 2057830  | 44.918  | ng    | 99       |
| 92) Benzo(g,h,i)perylene       | 26.56 | 276  | 2033012  | 45.602  | ng    | 99       |

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

