

Table 3.19 Calculated Accuracy % based on measured concentration mean for each concentration of standard points.

| Concentration | Calibration Curve number | | | | | | Mean | STD | CV% | Accuracy % |
|---------------|--------------------------|----------|----------|----------|----------|----------|----------|--------|-------|------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | | | | |
| 50 | 56.758 | 57.276 | 55.855 | 54.340 | 53.056 | 57.370 | 55.776 | 1.745 | 3.128 | 111.55 |
| 100 | 96.782 | 97.254 | 101.517 | 97.798 | 103.068 | 99.249 | 99.278 | 2.526 | 2.544 | 99.28 |
| 200 | 186.251 | 184.303 | 181.214 | 198.594 | 188.341 | 184.451 | 187.192 | 6.063 | 3.239 | 93.60 |
| 500 | 490.771 | 483.233 | 485.066 | 487.290 | 494.315 | 474.840 | 485.919 | 6.732 | 1.385 | 97.18 |
| 1000 | 978.266 | 981.975 | 974.647 | 964.517 | 973.427 | 973.762 | 974.432 | 5.855 | 0.601 | 97.44 |
| 2000 | 1953.396 | 1980.075 | 1997.918 | 1923.933 | 1951.055 | 1965.814 | 1962.032 | 25.590 | 1.304 | 98.10 |
| 3000 | 3087.765 | 3065.895 | 3053.783 | 3123.520 | 3086.744 | 3094.506 | 3085.369 | 24.181 | 0.784 | 102.85 |

Table 3.20 Calculated Accuracy % based on area ratios mean for each concentration of standard points.

| Concentration | Ratio for Standard Point | | | | | | Mean ratio | STD | CV% |
|---------------|--------------------------|--------|--------|--------|--------|--------|------------|-------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 50 | 0.0118 | 0.0109 | 0.0111 | 0.0132 | 0.0106 | 0.0115 | 0.012 | 0.001 | 8.18 |
| 100 | 0.0233 | 0.0219 | 0.0237 | 0.0265 | 0.0254 | 0.0236 | 0.024 | 0.002 | 6.87 |
| 200 | 0.0488 | 0.0459 | 0.0456 | 0.0575 | 0.0508 | 0.0484 | 0.050 | 0.004 | 8.81 |
| 500 | 0.1359 | 0.1283 | 0.1294 | 0.1461 | 0.1417 | 0.1326 | 0.136 | 0.007 | 5.19 |
| 1000 | 0.2753 | 0.2657 | 0.2645 | 0.2926 | 0.2841 | 0.2774 | 0.277 | 0.011 | 3.89 |
| 2000 | 0.5541 | 0.5408 | 0.5467 | 0.5870 | 0.5746 | 0.5653 | 0.561 | 0.018 | 3.13 |
| 3000 | 0.8784 | 0.8400 | 0.8379 | 0.9552 | 0.9121 | 0.8929 | 0.886 | 0.045 | 5.05 |