Table 8.

Heart Rate Accuracy Test

|  |  |  |  |
| --- | --- | --- | --- |
| Data point | Actual Reading | Prototype | Relative Difference |
| 1 | 90 | 91 | -1 |
| 2 | 90 | 92 | -2 |
| 3 | 90 | 91 | -1 |
| 4 | 88 | 87 | 1 |
| 5 | 88 | 89 | -1 |
| 6 | 91 | 90 | 1 |
| 7 | 89 | 87 | 2 |
| 8 | 86 | 89 | -3 |
| 9 | 86 | 89 | -3 |
| 10 | 88 | 87 | 1 |
| 11 | 94 | 92 | 2 |
| 12 | 82 | 81 | 1 |
| 13 | 88 | 90 | -2 |
| 14 | 88 | 90 | -2 |
| 15 | 88 | 88 | 0 |

Figure 46.

Two-sample t-test for actual measurement vs. prototype heart rate accuracy test

7.34 cm

Table 9.

Temperature Accuracy Test

|  |  |  |  |
| --- | --- | --- | --- |
| Data point | Actual Reading 2mm away from wrist | Prototype 2mm away from wrist | Relative Difference |
| 1 | 36.3 | 36.43 | -0.13 |
| 2 | 36.3 | 36.19 | 0.11 |
| 3 | 36.4 | 36.49 | -0.09 |
| 4 | 36.4 | 36.79 | -0.39 |
| 5 | 36.3 | 36.67 | -0.37 |
| 6 | 36.4 | 36.51 | -0.11 |
| 7 | 36.2 | 36.11 | 0.09 |
| 8 | 36.2 | 36.17 | 0.03 |
| 9 | 36.2 | 36.27 | -0.07 |
| 10 | 36.2 | 36.11 | 0.09 |
| 11 | 36.2 | 36.21 | -0.01 |
| 12 | 36.4 | 36.53 | -0.13 |
| 13 | 36.4 | 36.29 | 0.11 |
| 14 | 36.4 | 36.47 | -0.07 |
| 15 | 36.5 | 36.47 | 0.03 |

Figure 47.

Two-sample t-test for actual measurement vs. prototype temperature accuracy test