

## Test Data

### § 24.232(b) Equivalent Isotropically Radiated Power (E.I.R.P.)

The RF output power is measured via HP436A Power Meter Sensor.

Supply Voltage: 3.6 VDC

Modulation: TDMA

| FREQ.<br>(MHz) | LEVEL<br>(dBm) | AFCL<br>(dB) | POL<br>(H/V) | Height<br>(m) | Azimuth<br>(o angle) | F/S<br>( $\mu$ V/m) | Margin<br>(dBm) | EIRP<br>(W) | Battery |
|----------------|----------------|--------------|--------------|---------------|----------------------|---------------------|-----------------|-------------|---------|
| 1850.01        | -21.70         | 35.31        | V/H          | 1.2           | 30.0                 | 1072753.6           | 25.38           | 0.346       | Li-Ion  |
| 1880.00        | -21.46         | 35.48        | V/H          | 1.2           | 40.0                 | 1124605.0           | 25.79           | 0.380       | Li-Ion  |
| 1909.99        | -22.10         | 35.65        | V/H          | 1.2           | 30.0                 | 1065368.9           | 25.32           | 0.341       | Li-Ion  |
| 1880.00        | -21.50         | 35.48        | V/H          | 1.2           | 30.0                 | 1119437.9           | 25.75           | 0.377       | NiMH    |
|                |                |              |              |               |                      |                     |                 |             |         |

#### NOTES:

- The bandwidth is set per §24.238 (RBW = 1MHz, VBW = 1MHz).
- The spectrum was checked from 25 MHz up to the 10th harmonic.
- All emissions not listed were found to be more than 20dB below the limit.
- < -130dBm is below the floor of the spectrum analyzer.
- The EUT is manipulated through 3 orthogonal axis and the worst-case are reported.
- The EUT is placed 3m. away from the receiving antenna and the EIRP is calculated using the formula:

$$\text{EIRP (dBm)} = 10 \log_{10} \left( \left( \frac{r(\text{mV/m})}{1 \times 10^6} \right)^2 / 30.0 / 1 \times 10^{-3} \right)$$

$$\text{EIRP (dBm)} = 10 \log_{10} \left[ (3 \times \text{FS} / 1 \times 10^6)^2 / (30.0) \times 1000 \right]$$

$$\text{EIRP (Watt)} = \{ (3 \times \text{FS}) / 1 \times 10^6 \}^2 / 30.0$$