## 15.247(b) (1) MAXIMUM PEAK OUTPUT POWER

**Requirements:**

For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850 MHZ band: 1 Watt. For all other frequency hopping systems in the 2400-2483.5 band: 0.125 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**Measurement Procedure**

1. Position the EUT without connection to Spectrum Analyzer (SA). Turn on the EUT and connect its antenna terminal to SA via a low loss cable and set it to any one measured frequency within its operating range and ensure that the SA is operated in its linear range.

2. Set RBW of SA to 5MHz and VBW to NONE.

3. Measure the highest amplitude appearing on spectral display and record the level to calculate result data.

4. Repeat the above procedures until all frequencies measured were complete.

**Measurement Data - Refer Exhibit D(1)-39 to -44 for plotted data**

| | | |
|---|---|---|
| Base | Channel 1: | Output Peak Power is 15.93 dBm = 0.39 mW. |
| | Channel 44: | Output Peak Power is 19.37 dBm = 0.86 mW. |
| | Channel 75: | Output Peak Power is 15.62 dBm = 0.36 mW. |
| Handset Unit | Channel 1: | Output Peak Power is 14.37 dBm = 0.27 mW. |
| | Channel 44: | Output Peak Power is 13.75 dBm = 0.23 mW. |
| | Channel 75: | Output Peak Power is 12.50 dBm = 0.18 mW. |