



4. Peak Power Output

4.1 Operating Environment

Temperature: 26 °C
Relative Humidity: 58 %

4.2 Test Setup & procedure

The power output per FCC §15.247(b) was measured on the EUT using a 50 ohm coaxial cable connected to spectrum analyzer. The RBW of spectrum analyzer set at 3MHz and set the start frequency to center channel - 10MHz, span was set to 3 MHz, record the highest power reading after the Maxhold function and then sum all the power readings. Step up 3MHz and repeat the test until the stop frequency \geq center frequency + 10MHz. The test was performed at 3 channels (lowest, middle and highest channel). The Peak power measured result for modulated output power is in the following table.

See Peak Power Output CH1, CH6 and CH11 plots.

4.3 Measured Data of Test results:

Channel	Frequency (MHz)	Power Output (mW)	Limit (W)
1	2412.243	123.9	1
6	2438.06	143.65	1
11	2462.256	133.4	1

The result of EIRP:

Channel	Frequency (MHz)	Power Output (dBm)	Antenna Gain (dBi)	Calculated EIRP (dBm)	EIRP limit (dBm)
1	2412.243	20.93	0.58	21.51	36
6	2438.06	21.57	0.58	22.15	36
11	2462.256	21.25	0.58	21.83	36

Note: Calculated EIRP: power output (dBm) + Antenna Gain (dBi)