

1. List of calibrated test equipment:
 - a) Signal Generator – SMB 100 A Rohde & Schwarz
 - b) Spectrum Analyzer -FSV30 Rohde & Schwarz
2. Test date: 8/8/2017
3. Test engineer name: Ruben Martinez

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- The diagram illustrates the experimental setup for measuring the magnetic field of a dipole source. A computer is connected to two oscilloscopes. The top oscilloscope is connected to EM Center Slot 2 Relay B. The bottom oscilloscope is connected to EM Center Slot 1 Relay A. Both relays are connected to a dipole source. The dipole source is a rectangular structure with a central gap of 5 Meters. The gap is labeled 'OUT'. The distance from the gap to the base of the turn table is 1.9 Meters. The dipole source is oriented horizontally/vertically and theta/phi.

1. Wi-Fi Antenna

Frequency Band(s) : 2.4GHz, 5GHz

Operating Frequency : 2400~2483.5MHz, 5150~5250MHz, 5735~5835MHz

Number of Channel : 1~11, 32~48, 149~165 Channels

Channel Spacing : 20 MHz

Bandwidth : 2.4GHz, 5GHz

Transmit Power : 0 to 20 (Max) dBm

ITU-class of emission : Class 1

Antenna Type : PCB antenna

Antenna Material: Printed PCB

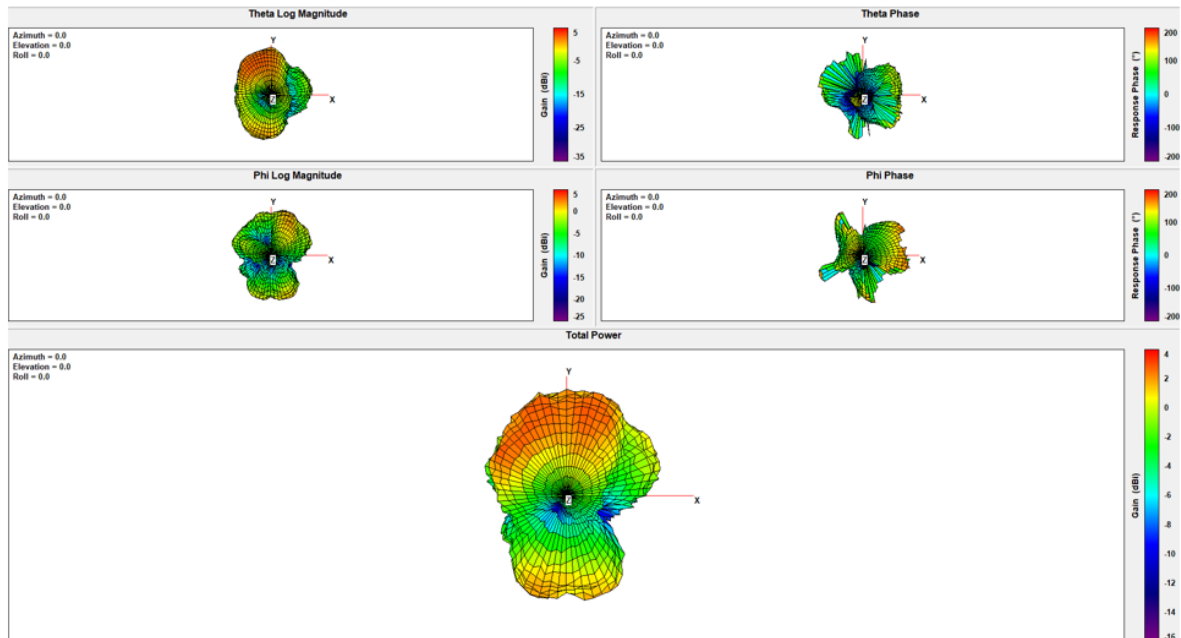
Passive Gain:

BAND	Frequency (MHz)	Passive	
		AVG. Eff (dB)	Peak Gain(dBi)
Wi-Fi	2437	-1.1279976	3.38361
	5240	-0.3963622	6.6773
	5500	-0.9480942	6.6157

Free Space Radiation Pattern:

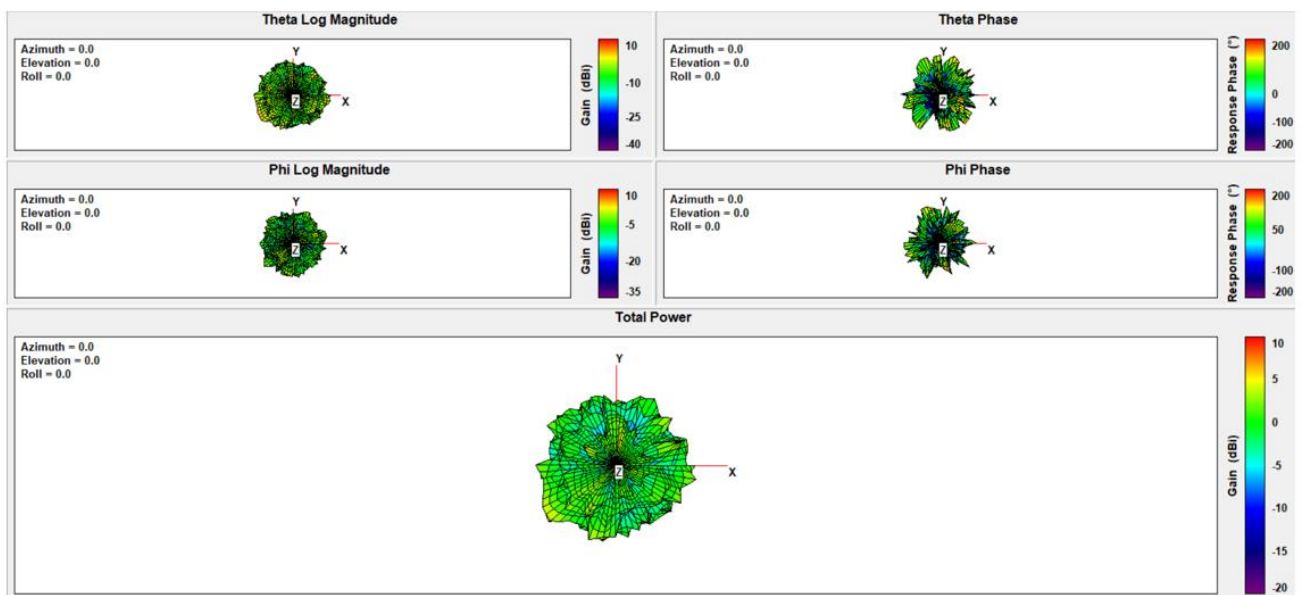
2.437 GHz Test Results

- › Gain (dBi) = 3.38361
- › Efficiency (%) = 77.1259



5.240 GHz Test Results

- › Gain (dBi) = 6.6773
- › Efficiency (%) = 91.2775



5.5 GHz Test Results

- › Gain (dBi) = 6.6157
- › Efficiency (%) = 80.3879

