

Test Result of RF Exposure Evaluation For FCC Part 15 Subpart C 15.247

- . Product: ProSafe Dual Band Wireless Access Point
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Transmit / Receive . Test Date: Oct. 25, 2005
- . Temperature: 25°C . Humidity: 68%

1. Antenna Gain

1.1 Frequency Range: 2.412-2.462 GHz

Antenna 1: The maximum Gain is 5.0 dBi.(Dipole antenna)
Antenna 2: The maximum Gain is 5.0 dB. (Ceiling antenna)
Antenna 3: The maximum Gain is 9.0 dB. (GP Omni-directional antenna)
Antenna 4: The maximum Gain is 18.0 dB (Patch antenna)

1.2 Frequency Range: 5.725-5.850 GHz

Antenna 1: The maximum Gain is 5.0 dB

2. EUT Operation condition

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Output Power into Antenna & RF Exposure Evaluation Distance for 2.4G

(1) Antenna 1,

Modulation Standard: IEEE 802.11b (11Mbps)

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	17.18	0.0330
06	2437	17.73	0.0370
11	2462	17.87	0.0390

Modulation Standard: IEEE 802.11g (54 Mbps)

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	16.28	0.0270
06	2437	14.42	0.0170
11	2462	15.13	0.0200

(1) Antenna 2,

Modulation Standard: IEEE 802.11 b (11Mbps)

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	17.18	0.0330
06	2437	17.73	0.0370
11	2462	17.87	0.0390

Modulation Standard: IEEE 802.11g (54 Mbps)

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	16.28	0.0270
06	2437	14.42	0.0170
11	2462	15.13	0.0200

(1) Antenna 3

Modulation Standard: IEEE 802.11b (11Mbps)

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	17.18	0.0830
06	2437	17.73	0.0940
11	2462	17.87	0.0970

Modulation Standard: IEEE 802.11g (54 Mbps)

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	16.28	0.0670
06	2437	14.42	0.0440
11	2462	15.13	0.0510

(1) Antenna 4

Modulation Standard: IEEE 802.11b (11Mbps)

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	17.18	0.6560
06	2437	17.73	0.7440
11	2462	17.87	0.7690

Modulation Standard: IEEE 802.11g (54 Mbps)

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	16.28	0.5330
06	2437	14.42	0.3470
11	2462	15.13	0.4090

4. Output Power into Antenna & RF Exposure Evaluation Distance for 5G

(1) Antenna 5

Modulation Standard: IEEE 802.11a (54Mbps)

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
09	5745	13.71	0.0150
11	5785	13.87	0.0150
13	5825	13.75	0.0150

5. The MPE is calculated as $0.769 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.