

1.1. Test Result of RF Exposure Evaluation

- . Product: RangeMax™ NEXT Wireless Router
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Transmit / Receive

1.1.1. Antenna Gain

The maximum Gain is 1.8 dBi.

1.1.2. EUT Operation condition

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

1.1.3. Output Power into Antenna & RF Exposure Evaluation Distance

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	18.62	0.022
06	2437	19.53	0.027
11	2462	19.46	0.027

Modulation Standard: IEEE 802.11g (6Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	18.77	0.023
06	2437	19.60	0.027
11	2462	19.18	0.025

Modulation Standard: 802.11 MIMO, EWC (Auto 130Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	21.80	0.046
06	2437	22.59	0.055
11	2462	22.47	0.053

Modulation Standard: 802.11 MIMO, EWC (Auto 270Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2422	20.83	0.036
06	2437	22.76	0.057
11	2452	22.79	0.057

The MPE is calculated as $0.074 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.

For 2412-2462 MHz, the EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.