

1.1. Test Result of RF Exposure Evaluation

- . Product: 802.11N Wireless Broadband Router
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

1.1.1. Antenna Gain

The maximum Gain is 5 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

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Oct. 20, 2008 Temperature: 20°C Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	23.36	0.136
06	2437	22.04	0.101
11	2462	21.93	0.098

(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Oct. 20, 2008 Temperature: 20°C Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	22.94	0.124
06	2437	21.19	0.083
11	2462	23.45	0.139

(3) Modulation Standard: IEEE 802.11n, HT20 (65Mbps)

Test Date: Oct. 20, 2008 Temperature: 20°C Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	23.76	0.150
06	2437	23.92	0.155
11	2462	23.63	0.145

(4) Modulation Standard: IEEE 802.11n, HT40 (135Mbps)

Test Date: Oct. 20, 2008

Temperature: 20°C

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
03	2422	23.23	0.132
06	2437	22.86	0.122
09	2452	22.93	0.123

The MPE is calculated as $0.155 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. 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.