

1.1. Test Result of RF Exposure Evaluation

- . Product: TI 4830 Wireless Cable Modem
- Test Item: RF Exposure Evaluation Data
- . Test site: OATS
- . Test Mode: Normal Operation

1.1.1. Antenna Gain The maximum Gain is 2.00 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: DSSS

Test Date: Nov 11, 2009 Temperature: 13°C Humidity: 48%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	19.28	0.026727
06	2437	19.25	0.026543
11	2462	18.84	0.024152

Modulation Standard: OFDM

Test Date: Nov 11, 2009 Temperature: 13°C Humidity: 48%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	22.23	0.052717
06	2437	22.27	0.053205
11	2462	21.62	0.045809

Modulation Standard: OFDM-20MHz

Test Date: Nov 11, 2009 Temperature: 13°C Humidity: 48%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
01	2412	19.28	0.026727
06	2437	19.25	0.026543
11	2462	18.84	0.024152

Modulation Standard: OFDM-40MHz

Test Date: Nov 11, 2009 Temperature: 13°C Humidity: 48%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
03	2422	19.51	0.028181

06	2437	19.35	0.027161
09	2452	19.40	0.02746

The MPE is calculated as **0.053205** mW / cm^2 < limit $1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.

a 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.