

1.1. Test Result of RF Exposure Evaluation

- . Product: (3G) 802.11N (VDSL2) Firewall Router
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

1.1.1. Antenna Gain

Antenna 1 : 2.09dBi
 Antenna 2 : 2.09dBi

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) Test Date: Oct. 29, 2009 Temperature: 27°C Humidity: 61%

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)		Power Density (S) (mW/cm ²)	
			Ant1	Ant2	Ant1	Ant2
802.11b (11Mbps)	01	2412	17.36	17.76	0.018	0.019
	06	2437	17.49	17.49	0.018	0.018
	11	2462	17.54	17.89	0.018	0.020
802.11g (54Mbps)	01	2412	14.41	14.40	0.009	0.009
	06	2437	14.42	14.30	0.009	0.009
	11	2462	14.28	14.53	0.009	0.009

(2) Test Date: Oct. 29, 2009 Temperature: 27°C Humidity: 61%

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)			Power Density (S) (mW/cm ²)		
			Ant1	Ant2	Total	Ant1	Ant2	Total
802.11n, HT20 (6.5Mbps)	01	2412	11.56	11.87	14.73	0.005	0.005	0.010
	06	2437	11.48	12.20	14.87	0.005	0.005	0.010
	11	2462	11.41	12.30	14.89	0.004	0.005	0.010
802.11n, HT40 (13.5Mbps)	03	2422	10.71	9.08	12.98	0.004	0.003	0.006
	06	2437	10.74	9.09	13.00	0.004	0.003	0.006
	09	2452	10.39	9.39	12.93	0.004	0.003	0.006

The MPE is calculated as $0.020\text{mW} / \text{cm}^2 < \text{limit } 1\text{ mW} / \text{cm}^2$. 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.