1.1. Test Result of RF Exposure Evaluation

- . Product: Mobile 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 2.0 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
 - (a) For the 802.11b/g device, the calculation is as follow:

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Jul. 26, 2005Temperature: 27Humidity: 64%

Channel	Channel Frequency	Output Power to Antenna	Power Density (S)
Channel	(MHz)	(dBm)	(mW/cm ²)
01	2412	13.58	0.0070
06	2437	14.72	0.0090
11	2462	13.60	0.0070

Modulation Standard: IEEE 802.11g

Test Date: May. 18, 2004Temperature: 25Humidity: 58%

Channel	Channel Frequency	Output Power to Antenna	Power Density (S)
Channel	(MHz)	(dBm)	(mW/cm ²)
01	2412	12.22	0.0050
06	2437	14.27	0.0080
11	2462	12.72	0.0060

(b) For the flash-OFDM device, the calculation is as follow:

Modulation Standard: Flash-OFDM

Test Date: Jul. 26, 2005		Temperature: 27 Humic		64%
	Channel Frequency (MHz)	Output Power of ERP (dBm)	Output Power of EIRP (mW)	Power Density (S) (mW/cm ²)
	710.96	24.773	492.4	0.098
	713.03	24.883	505.0	0.100
	715.05	24.883	505.0	0.100

Co-located MPE for the EUT with the flash-OFDM TX installed as well is calculated as

0.0090/1.0 + 0.1/0.474 = 0.22 < limit 1 mW / cm2.

This meets with FCC RF exposure requirements for a mobile device.