RF Exposure Evaluation declaration

E-TOP Network Technology Inc.

EUT: Broadband Router

Model Number: BR130g

FCC ID: U6ABR130g

Prepared for:

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1. **RF Exposure Evaluation**

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500			F/300	6
1500-100,000			5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500			F/1500	6
1500-100,000			1	30

F= Frequency in MHz

Friis Formula Friis transmission formula: $Pd = (Pout^{*}G)/(4^{*}pi^{*}r^{2})$

Where $Pd = power density in mW/cm^2$ Pout = output power to antenna in mW G = gain of antenna in linear scale Pi = 3.1416R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

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

1.3. Test Result of RF Exposure Evaluation

Date of Test	March 29, 2007	Temperature	23.7 deg/C
EUT	Broadband Router	Humidity	60 %RH
Working Cond.	Mode 1		

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0dBi or 1.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel No.	Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)
1	2412.00	56.4937	0.0112
6	2437.00	57.0164	0.0113
11	2462.00	54.3250	0.0108

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm^2 .

Date of Test	March 29, 2007	Temperature	23.7 deg/C
EUT	Broadband Router	Humidity	60 %RH
Working Cond.	Mode 2		

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0dBi or 1.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel No.	Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)
1	2412.00	47.4242	0.0094
6	2437.00	47.7529	0.0095
11	2462.00	45.2898	0.0090

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm^2 .