Wi2Wi, Inc. FCC ID: U9R-W2CBW009S

4 FCC §15.247 (i) & § 2.1091 RF Exposure

4.1 Applicable Standard

According to FCC §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	$*(180/f^2)$	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

4.2 MPE Prediction

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

 $S = PG/4\pi R^2$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

4.3 MPE Results

Report Number: R1003232-247

Maximum peak output power at antenna input terminal (dBm): 16.50

Maximum peak output power at antenna input terminal (mW): 44.67

Prediction distance (cm): 20

Prediction frequency (MHz): 2462

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Maximum Antenna Gain, typical (dBi): 3.0

Maximum Antenna Gain (numeric): 1.995
Power density of prediction frequency at 20.0 cm (mW/cm²): 0.018

MPE limit for uncontrolled exposure at prediction frequency (mW/cm²): 1.0

The device is compliant with the requirement MPE limit for uncontrolled exposure. The maximum power density at the distance of 20 cm is 0.018 mW/cm²; the Limit is 1.0 mW/cm²

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^{* =} Plane-wave equivalent power density