

**MPE CALCULATION**  
**For Global411 Internet Services, LLC;**  
**Model: MSW41p4**  
**FCC ID: YZAQA-ZBQI-W0NKP4**

RF Exposure Requirements:	47CFR§1.1307(b)
RF Radiation Exposure Limits:	47CFR§1.1310
RF Radiation Exposure Guidelines:	47CFR§2.1091
EUT Frequency Band:	2412 – 2462MHz
Limits for General Population/Uncontrolled Exposure in the band of: 1500 – 100000MHz	
Power Density Limit:	1.0mW/cm <sup>2</sup> ;

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

Where, S=Power Density

P=Power Input to Antenna

G=Antenna Gain

R=distance to the center of radiated antenna

Channel	Channel	Channel	Conducted	Antenna	Power	Power
		Frequency (MHz)	Power (mW)	Gain (dBi)	density at 20cm (mW/cm <sup>2</sup> )	Limits (mW/cm <sup>2</sup> )
2412 to 2462 MHz	802.11b	Low	2412	21.88	2	0.006878
		Mid	2437	28.18	2	0.008858
		High	2462	33.88	2	0.010650
	802.11g	Low	2412	40.74	2	0.012806
		Mid	2437	48.98	2	0.015396
		High	2462	57.54	2	0.018087

**Result**

The above result had shown that device complied with 1.0mW/cm<sup>2</sup> Power density requirement for distance of 20 cm.

Completed By: Peter Cai

Data: 8 April, 2011