## FCC ID: 2A6J8-PF002A

## RF EXPOSURE EVALUATION

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)

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic Field Power		Average Time					
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm <sup>2</sup> )	_					
(A) Limits for Occupational/Control Exposures									
300-1500		F/300		6					
1500-100000			5	6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500			F/1500	6					
1500-100000			1	30					

## 11.1 Friis transmission formula: Pd= (Pout\*G)\ (4\*pi\*R²)

Where

Pd= Power density in mW/cm<sup>2</sup>

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1416

R= distance between observation point and center of the radiator in cm

Pd the limit of MPE, 1mW/cm<sup>2</sup>, If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

RF Exposure Information: The radiated output power of this device meets the limits of FCC/IC radio frequency exposure limits. This device should be operated with a minimum separation distance of 20cm (8 inches) between the equipment and a person's body.

## 11.2 Measurement Result

Wifi 2.4G--

Antenna gain: 3.6 dBi

modulation	Channel Freq. (MHz)	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
11b	2412	17.6	15 to 18	18	2.29	0.02876	1
	2437	17.58	15 to 18	18	2.29	0.02876	1
	2462	17.6	15 to 18	18	2.29	0.02876	1
11g	2412	16.75	15 to 18	18	2.29	0.02876	1
	2437	16.63	15 to 18	18	2.29	0.02876	1
	2462	16.61	15 to 18	18	2.29	0.02876	1
11n HT20	2412	15.91	15 to 18	18	2.29	0.02876	1
	2437	15.79	15 to 18	18	2.29	0.02876	1
	2462	15.86	15 to 18	18	2.29	0.02876	1
11n HT40	2422	15.46	15 to 18	18	2.29	0.02876	1
	2437	15.36	15 to 18	18	2.29	0.02876	1
	2452	15.45	15 to 18	18	2.29	0.02876	1