FCC ID: 2A6J8-PF001E

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 ²)	_				
(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/cm²

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/cm², 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: 5.2 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	12.66	10 to 13	13	3.31	0.01314	1
	2437	12.53	10 to 13	13	3.31	0.01314	1
	2462	12.54	10 to 13	13	3.31	0.01314	1
11g	2412	11.26	10 to 13	13	3.31	0.01314	1
	2437	11.35	10 to 13	13	3.31	0.01314	1
	2462	11.42	10 to 13	13	3.31	0.01314	1
11n HT20	2412	10.78	10 to 13	13	3.31	0.01314	1
	2437	10.77	10 to 13	13	3.31	0.01314	1
	2462	10.84	10 to 13	13	3.31	0.01314	1
11n HT40	2422	12.66	10 to 13	13	3.31	0.01314	1
	2437	12.53	10 to 13	13	3.31	0.01314	1
	2452	12.54	10 to 13	13	3.31	0.01314	1