FCC ID: 2AVCWMWC434M

## **MPE Calculation**

RF function or Mode	Frequency range (MHz)			Max. tune-up EIRP (dBm) <sup>Note1</sup>	Max. tune-up EIRP (mW)	Maximum power density (mW/cm²)	Requriment (mW/cm²)
802.11ad	58320	~	64800	31.00	1258.9255	0.2505	1.000
		~					
		~					
		~					
		~					
		~					
		~					
		~					
		~					

Note1: Please refer to the Operational Description for Max tune-up EIRP.

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

The MPE sample calculation for this exposure is shown below.

• S = EIRP / (4 R<sup>2</sup>  $\pi$ ) - Note = 1258.9255 / (4 X 20<sup>2</sup> X  $\pi$ ) S= Maximum power density(mW/cm<sup>2</sup>) = 0.2505 mW/cm<sup>2</sup> EIRP= Equivalent Isotropic Radiated Power(mW)

R= Distance to the center of the radiation of the antenna(20cm)

## Limits for General Population/Uncontrolled Exposure

Frequency range (MHz)		Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averageing time (minutes)						
0.3	~	1.34	614	1.63	*100	30					
1.34	~	30	824/f	2.19 / f	*180 / f <sup>2</sup>	30					
30	~	300	27.5	0.073	0.2	30					
300	~	1,500			f / 1500	30					
1,500	~	100,000			1.0	30					

f = frequency in MHz \* = Plane-wave equivalent power density

Conclusion: The exposure condition of this device is compliant with FCC