

## MPE ESTIMATION

FCC ID: 2AF5Z-QC3

1, According to §1.1310, Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm <sup>2</sup> )	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

## 2, Estimation Result

For WIFI:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )
2437	14.96	14±1(15)	31.62	1.91	1.55	0.00977
$Pd = \frac{P_{out} * G}{4\pi r^2} :$ <p>Note:</p> <p>Note: The estimation distance is 20cm</p> <p>Note: PK Output power= conducted power in mW.</p> <p>G=power gain of the antenna in the direction of interest relative to an isotropic radiator</p> <p>R=distance to the center of radiation of the antenna in cm</p> <p>Conducted power see the test report HK2508154610-E, antenna gain=1.91dBi;</p>						

when the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.00977 which is < 1.0, RF Exposure testing is not required.

-----The End-----