

## MPE ESTIMATION

FCC ID: 2BCLC-SM04

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

Note: F= Frequency in MHz

## 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 (Numerical)	MPE (mW/cm <sup>2</sup> )
2462	14.37	14±1(15)	31.62	3.65	2.32	0.01459
5180	9.79	9±1(10)	10.00	2.62	1.83	0.00364

$$Pd = \frac{P_{out} * G}{4\pi r^2} ;$$

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power in mW.

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna in cm

Conducted power see the test report HK2504151891-1E/2E,

2.4G antenna gain=3.65dBi;

5.2G antenna gain=2.62dBi

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 0.01459(mW/cm<sup>2</sup>) which is < 1.0(mW/cm<sup>2</sup>), RF Exposure testing is not required.

Note: the device could not transmit simultaneously in 2.4G and 5G.

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