

## MPE ESTIMATION

FCC ID: 2A5TQ-G57

### 1, 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 5.2/5.8 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> )
5.2G WIFI	14.01	13.5±1(14.5)	28.18	2.22	1.67	0.00937
5.8G WIFI	14.41	13.5±1(14.5)	28.18	2.12	1.63	0.00914
$Pd = \frac{P_{out} * G}{4\pi r^2};$ <p>Note:</p> <p>Note: The estimation distance is 20cm</p> <p>Note: PK Output power= conducted power.</p> <p>Conducted power see the test report HK2302270551-1E/2E.</p> <p>5.2G WIFI antenna gain=2.22dBi</p> <p>5.8G WIFI antenna gain=2.12dBi</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 0.00937mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

Note: the device could not transmit simultaneously in 5.2G and 5.8G

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