

## MPE ESTIMATION

FCC ID: 2AZL7-ZY-D1

### 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 2.4G/5G 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> )
2.4G WIFI	19.62	19±1(20)	100	3.48	2.23	0.04436
5.2G WIFI	18.51	18±1(19)	79.43	4.94	3.12	0.04931
5.8G WIFI	19.07	19±1(20)	100	4.94	3.12	0.06208

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK230713002-1E/-2E/3E,

2.4G antenna gain=3.48dBi.

5G antenna gain=4.94dBi.

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 0.06208 which is < 1.0, RF Exposure testing is not required.

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

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