

MPE ESTIMATION

FCC ID: **2ABFZ-ARC50-6WAP**

1, Limit for General Population/ Uncontrolled Exposures

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

2, Estimation Result

For 2.4G 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 ²)
2.4G WIFI Ant1	15.02	15±1(16)	39.811	3	1.9953	0.01581
2.4G WIFI Ant2	15	15±1(16)	39.811	3	1.9953	0.01581
MIMO	/	/	/	/	/	0.03162
5.2G WIFI Ant1	15	15±1(16)	39.811	3	1.9953	0.01581
5.2G WIFI Ant2	14.98	14±1(15)	31.623	3	1.9953	0.01256
MIMO	/	/	/	/	/	0.02837
5.8G WIFI Ant1	12.98	12±1(13)	19.953	3	1.9953	0.00792
5.8G WIFI Ant2	13.73	13±1(14)	25.119	3	1.9953	0.00998
MIMO	/	/	/	/	/	0.01790

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

Note:

Note: The estimation distance is 20cm

The device could not transmit simultaneously in 2.4G and 5G.

Note: PK Output power= conducted power.

Conducted power see the test report HK2010102815-1E/2E/3E,

2.4G antenna gain=3dBi.

5.2G antenna gain=3dBi.

5.8G antenna gain=3dBi.

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 0.03162mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

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

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