

MPE ESTIMATION

FCC ID: 2AGKB-KD1

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)
2.4GWIFI	16.84	16±1(17)	50.12	1	1.26	0.01257
5.2GWIFI	17.49	17±1(18)	63.1	1	1.26	0.01583
5.8GWIFI	14.78	14±1(15)	31.62	1	1.26	0.00793

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report

HK2010142898-1E/HK2010142898-2E/HK2010142898-3E/HK2010142898-4E.

Gantenna gain=1dBi

simultaneously MPE

2.4G WIFI MPE (max)= 0.01257 (mW/cm²)

5G WIFI MPE (max)= 0.01583 (mW/cm²)

simultaneously MPE=0.01257+0.01583=0.0284(mW/cm²)

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 0.0284mW/cm² which is< 1.0mW/cm², RF Exposure testing is not required.

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