

MPE ESTIMATION

FCC ID: 2BP8G-C1

1, According to §1.1310, 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

Note: F= Frequency in MHz

2, Estimation Result

	Frequency (MHz)	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (numerical)	MPE (mW/cm ²)
EDR	2402	0.98	0±1(1)	1.259	4.29	2.69	0.00067
5.8GWiFi	5755	5.70	5±1(6)	3.981	2.61	1.82	0.00145

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

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 **HK2505292831-1E/2E**, Bluetooth antenna gain=4.29dBi, 5.8GWiFi antenna gain=2.61dBi

Simultaneously MPE

Bluetooth + 5.8GWiFi = 0.00067 + 0.00145 = 0.00212

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 0.00212 which is < 1.0, RF Exposure testing is not required.

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