

MPE ESTIMATION

FCC ID: 2BMJI-CK

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

Mode(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)
BLE: 2402	1.88	1±1(2)	1.58	0.56	1.14	0.00036
EDR: 2441	3.96	3±1(4)	2.51	0.56	1.14	0.00057
2.4G WIFI: 2462	13.51	13±1(14)	25.12	0.56	1.14	0.0057

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

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 HK2411146781-1E/2E/3E, antenna gain=0.56dBi

2.4G WIFI (max)= 0.0057

EDR (max)= 0.00057

simultaneously MPE=0.0057/1+0.00057/1=0.00627

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 0.00627 which is < 1.0, RF Exposure testing is not required.

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