

MPE ESTIMATION

FCC ID: 2BM4Z-A2PRO

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 Bluetooth and 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)
2462	15.64	15±1(16)	39.81	1.19	1.32	0.01042
5745	8.50	8±1(9)	7.94	0.87	1.22	0.00193
2480	8.53	8±1(9)	7.94	1.57	1.44	0.00227

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK2412117666-1E/2E/3E,

2.4G antenna gain=1.19dBi;

5.8G antenna gain=0.87dBi;

BT antenna gain=1.57dBi

2.4G WIFI MPE (max)=0.01042 (mW/cm²)

5G WIFI MPE (max)= 0.00193 (mW/cm²)

BT MPE (max)= 0.00227 (mW/cm²)

simultaneously MPE=0.01042+0.00227=0.01269(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 0.01269 which is < 1.0, RF Exposure testing is not required.

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