

MPE ESTIMATION

FCC ID: 2BAAR-M269A

1,Per FCC Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices, the 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	Frequency (MHz)	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	2437	13.46	13±1(14)	25.12	3.02	2.00	0.00999
5.2G WIFI	5230	13.09	13±1(14)	25.12	2.91	1.95	0.00975
5.8G WIFI	5825	10.66	10±1(11)	12.59	2.91	1.95	0.00488
BT	2480	3.74	3±1(4)	2.51	3.24	2.11	0.00187

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK2406283478-1E /2E/3E/4E, antenna gain=3.02dBi(2.4G WIFI), 2.91dBi(5.2G/5.8G WIFI), 3.24dBi(BT)

WIFI MPE (max)= 0.00999 (mW/cm²)

BT (max)= 0.00187 (mW/cm²)

simultaneously MPE=0.00999+0.00187=0.01186(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 0.01186 mW/cm² which is< 1.0mW/cm², RF Exposure testing is not required.

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