

MPE ESTIMATION

FCC ID: 2BNUC-TS18

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

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	2480	9.53	9±1(10)	10.000	-2.12	0.61	0.00122
5.2GWiFi	5180	9.36	9±1(10)	10.000	1.91	1.55	0.00309
5.8GWiFi	5795	9.61	9±1(10)	10.000	2.97	1.98	0.00394

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK2502180609-1E/2E/3E, BT:antenna gain=-2.12dBi, 5.2GWiFi: antenna gain=1.91 dBi, 5.8GWiFi:antenna gain=2.97dBi,

Simultaneously MPE

5.8GWiFi + Bluetooth = 0.00394 + 0.00122 = 0.00516

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 0.00516mW/cm² which is< 1.0mW/cm², RF Exposure testing is not required.

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