



MPE ESTIMATION

FCC ID: 2A5TQ-PS301

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)	Limit (mW/cm ²)	Ratios
BLE	2480	-0.97	-1±1(0)	1.000	3.56	2.270	0.00045	1.0	0.00045
2.4GWiFi	2437	14.79	14±1(15)	31.623	3.56	2.270	0.01429	1.0	0.01429

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

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 **HK2607200745-1E/2E**, antenna gain=3.56dBi.

Simultaneously MPE Ratios: BLE + 2.4GWiFi = 0.00045 + 0.01429 = 0.01474

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 0.01474 which is < 1.0; RF Exposure testing is not required.

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