

MPE ESTIMATION

FCC ID: 2AY4ATINA2C

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)
2.4GWiFi	2437	14.53	14±1(15)	31.623	3.42	2.198	0.01384	1.0
BLE	2440	0.70	0±1(1)	1.259	3.42	2.198	0.00055	1.0

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

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 **HK2512116485-1E/2E**, 2.4GWiFi antenna gain=3.42dBi

2.4GWiFi and BT cannot be transmitted at the same time

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 0.01384mW/cm² which is< 1.0 mW/cm², RF Exposure testing is not required.

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