



MPE ESTIMATION

FCC ID: 2AQ3F-CGDN1

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

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (numerical)	MPE (mW/cm ²)
2.4GWIFI	19.02	18.5±1(19.5)	89.13	3.74	2.37	0.04197
EDR	8.72	8±1(9)	7.94	3.74	2.37	0.00374

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2203241179-1E/2E**,

WIFI antenna gain=3.74dBi

BT antenna gain=3.74dBi

WiFi and BT Simultaneous evaluation

$$0.04197 + 0.00374 = 0.04571 < 1$$

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 0.04571mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

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