

MPE ESTIMATION

FCC ID: 2ADFS-POCKET-R-1D

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)
5.2GWiFi	5230	8.65	8±1(9)	7.94	1.93	1.56	0.00247	1.0
5.3GWiFi	5280	8.73	8±1(9)	7.94	2.22	1.67	0.00264	1.0
5.6GWiFi	5500	9.20	9±1(10)	10.00	2.12	1.63	0.00324	1.0

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

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 **HK2512116507-1E/2E/3E**,

5.2GWiFi antenna gain=1.93dBi, 5.3GWiFi antenna gain=2.22dBi, 5.6GWiFi antenna gain=2.12dBi..

5.2GWiFi, 5.3GWiFi and 5.6GWiFi 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 0.00324mW/cm² which is < 1.0 mW/cm², RF Exposure testing is not required.

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