

MPE ESTIMATION

FCC ID: 2ALPX-OPYN-MON

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)
2.4GWiFi	2462	14.20	14±1(15)	31.623	3.41	2.19	0.01380
5.2GWiFi	5200	6.93	6±1(7)	5.012	3.25	2.11	0.00211

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

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 **HK2504242136-1E/2E**, 2.4G antenna gain=3.41dBi, 5.2G antenna gain=3.25dBi.

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 0.01380mW/cm² which is< 1.0 mW/cm², RF Exposure testing is not required.

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