

MPE ESTIMATION

FCC ID: **2ABFZ-RESIROUTER**

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

2, Estimation Result

For 2.4G WIFI:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
2.4G WIFI Ant1	15.44	15±1(16)	39.8107	5	3.1623	0.02506
2.4G WIFI Ant2	14.62	14±1(15)	31.6228	5	3.1623	0.01990
MIMO	/	/	/	/	/	0.04496
5.2G WIFI Ant1	14.07	14±1(15)	31.6228	5	3.1623	0.02506
5.2G WIFI Ant2	12.64	12±1(13)	19.9526	5	3.1623	0.01256
MIMO	/	/	/	/	/	0.03762
5.8G WIFI Ant1	15.95	15±1(16)	39.8107	5	3.1623	0.02506
5.8G WIFI Ant2	15.31	15±1(16)	39.8107	5	3.1623	0.02506
MIMO	/	/	/	/	/	0.05012
$Pd = \frac{P_{out} * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
The device could not transmit simultaneously in 2.4G and 5G.						
Note: PK Output power= conducted power.						
Conducted power see the test report HK2008142278-1E/2E/3E,						
2.4G antenna gain=5dBi.						
5.2G antenna gain=5dBi.						
5.8G antenna gain=5dBi.						

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

0.00397mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

Note: the device could not transmit simultaneously in 2.4G and 5G.

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