



MPE ESTIMATION

FCC ID: 2AD37JVAWPRO53RX

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

	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)	Ratios
5.2GWiFi ANT1	1.51	1±1(2)	1.585	5.49	3.540	0.00112	1.0	0.00112
5.2GWiFi ANT2	1.85	1±1(2)	1.585	5.48	3.532	0.00111	1.0	0.00111
MIMO	4.45	4±1(5)	3.162	8.50	7.079	0.00446	1.0	0.00446
5.8GWiFi ANT1	15.12	15±1(16)	39.811	5.36	3.436	0.02722	1.0	0.02722
5.8GWiFi ANT2	15.40	15±1(16)	39.811	5.50	3.548	0.02812	1.0	0.02812
MIMO	15.89	15±1(16)	39.811	8.44	6.982	0.05533	1.0	0.05533

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

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 **HK2603030373-1E/2E**.

5.2G antenna 1 gain=5.49dBi, 5.2G antenna 2 gain=5.48dBi;

5.8G antenna 1 gain=5.36dBi, 5.8G antenna 2 gain=5.50dBi.

5.2GWiFi and 5.8GWiFi 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 0.05533 which is < 1.0, RF Exposure testing is not required.

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