

MPE ESTIMATION

FCC ID: 2AE6A-GL2120TW

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)
11b	12.44	12 ± 1(13)	19.95	2	1.585	0.00629
11g	11.85	11 ± 1(12)	15.85	2	1.585	0.00500
11n/HT20	10.59	10 ± 1(11)	12.59	2	1.585	0.00397
11n/HT40	9.82	9 ± 1(10)	10.00	2	1.585	0.00315

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HUAK180722662-E, antenna gain=2dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11b	CH1	12.44	17.54	2	1.585	0.00553
	CH6	12.38	17.30	2	1.585	0.00546
	CH11	12.08	16.14	2	1.585	0.00509
11g	CH1	11.68	14.72	2	1.585	0.00464
	CH6	11.84	15.28	2	1.585	0.00482
	CH11	11.85	15.31	2	1.585	0.00483
11n/HT20	CH1	10.59	11.46	2	1.585	0.00361
	CH6	10.17	10.40	2	1.585	0.00328
	CH11	10.06	10.14	2	1.585	0.00320
11n/HT40	CH1	9.49	8.89	2	1.585	0.00281
	CH4	9.82	9.59	2	1.585	0.00303
	CH7	9.03	8.00	2	1.585	0.00252
$Pd = \frac{P_{out} * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HUAK180722662-E, antenna gain=2dBi.						

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