

MPE ESTIMATION  
 FCC ID: 2AH3J-X99

**1,Limit for General Population/ Uncontrolled Exposures**

Frequency	Power density (mW/ cm <sup>2</sup> )	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 <sup>2</sup> )
11b	12.51	12 ± 1(13)	19.95	1	1.2589	0.00500
11g	11.84	11 ± 1(12)	15.85	1	1.2589	0.00397
11n/HT20	11.55	11 ± 1(12)	15.85	1	1.2589	0.00397
11n/HT40	11.04	10.5 ± 1(11.5)	14.13	1	1.2589	0.00354

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK180720416-E, antenna gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )
11b	CH1	12.51	17.82	1	1.2589	0.00447
	CH6	12.37	17.26	1	1.2589	0.00432
	CH11	12.27	16.87	1	1.2589	0.00423
11g	CH1	11.84	15.28	1	1.2589	0.00383
	CH6	11.68	14.72	1	1.2589	0.00369
	CH11	11.72	14.86	1	1.2589	0.00372
11n/HT20	CH1	11.55	14.29	1	1.2589	0.00358
	CH6	11.29	13.46	1	1.2589	0.00337
	CH11	11.34	13.61	1	1.2589	0.00341
11n/HT40	CH1	10.92	12.36	1	1.2589	0.00310
	CH4	10.78	11.97	1	1.2589	0.00300
	CH7	11.04	12.71	1	1.2589	0.00318
$Pd = \frac{P_{out} * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HK180720416-E, antenna gain=1dBi.						

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