

MPE ESTIMATION
 FCC ID: 2AP8Q-SS118

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

Note: F= Frequency in MHz

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	12.27	12 ± 1(13)	19.95	1	1.2589	0.00500
11g	11.86	11 ± 1(12)	15.85	1	1.2589	0.00397
11n/HT20	11.47	11 ± 1(12)	15.85	1	1.2589	0.00397
11n/HT40	10.90	10 ± 1(11)	12.59	1	1.2589	0.00315

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK1800612322-E, antenna gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11b	CH1	12.27	16.87	1	1.2589	0.00423
	CH6	12.04	16.00	1	1.2589	0.00401
	CH11	11.85	15.31	1	1.2589	0.00384
11g	CH1	11.72	14.86	1	1.2589	0.00372
	CH6	11.86	15.35	1	1.2589	0.00385
	CH11	11.55	14.29	1	1.2589	0.00358
11n/HT20	CH1	11.47	14.03	1	1.2589	0.00352
	CH6	11.34	13.61	1	1.2589	0.00341
	CH11	11.18	13.12	1	1.2589	0.00329
11n/HT40	CH1	10.90	12.30	1	1.2589	0.00308
	CH4	10.75	11.89	1	1.2589	0.00298
	CH7	10.61	11.51	1	1.2589	0.00288

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK1800612322-E, antenna gain=1dBi.

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