

# MPE ESTIMATION

FCC ID: 2ASP4-S5

## 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	12.73	12 ± 1(13)	19.95	1	1.2589	0.00500
11g	11.74	11 ± 1(12)	15.85	1	1.2589	0.00397
11n/HT20	11.37	11 ± 1(12)	15.85	1	1.2589	0.00397
11n/HT40	10.45	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 HK1812141897-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	12.73	18.75	1	1.2589	0.00470
	CH6	12.51	17.82	1	1.2589	0.00447
	CH11	12.24	16.75	1	1.2589	0.00420
11g	CH1	11.74	14.93	1	1.2589	0.00374
	CH6	11.68	14.72	1	1.2589	0.00369
	CH11	11.34	13.61	1	1.2589	0.00341
11n/HT20	CH1	11.16	13.06	1	1.2589	0.00327
	CH6	11.37	13.71	1	1.2589	0.00344
	CH11	10.53	11.30	1	1.2589	0.00283
11n/HT40	CH1	10.42	11.02	1	1.2589	0.00276
	CH4	10.14	10.33	1	1.2589	0.00259
	CH7	10.45	11.09	1	1.2589	0.00278
$Pd = \frac{P_{out} * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HK1812141897-E, antenna gain=1dBi.						

Result: Base on the calculation value, No SAR measurement is required.

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