

MPE ESTIMATION

FCC ID: 2BCLC-H9

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 2.4GWIFI+SRD:

433M:EIRP(dBm)=73.40(dBuV/m)-95.2=-21.8(dBm)

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)
2437	13.84	13±1(14)	25.12	-0.58	0.87	0.004375
433.91	-21.8	-21±1(-20)	0.01	2	1.58	0.000003

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.
 Conducted power see the test report HK2403181203-1E/2E,
 WIFI antenna gain=-0.58dBi;
 433M antenna gain=2dBi;
 simultaneously MPE=0.004375+0.000003=0.004378<1.0

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 0.004378 which is < 1.0, RF Exposure testing is not required.

-----The End-----