MPE ESTIMATION
FCC ID: **2AIGI-RA18**

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 | 9.49 | 9±1(10) | 10.00 | 1 | 1.2589 | 0.00251 |
| 11g | 8.63 | 8±1(9) | 7.94 | 1 | 1.2589 | 0.00199 |
| 11n/HT20 | 7.75 | 7±1(8) | 6.31 | 1 | 1.2589 | 0.00158 |
| 11n/HT40 | 6.44 | 6±1(7) | 5.01 | 1 | 1.2589 | 0.00126 |

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

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.
Conducted power see the test report HK1809061071E, antenna gain=1dBi.

| Mode | CH | PK Output power(dBm) | Output power(mW) | Antenna Gain(dBi) | Antenna Gain (linear) | MPE (mW/cm²) |
|---|---|---|---|---|---|---|
| 11b | CH1 | 9.01 | 7.96 | 1 | 1.2589 | 0.00199 |
| | CH6 | 9.33 | 8.57 | 1 | 1.2589 | 0.00215 |
| | CH11 | 9.49 | 8.89 | 1 | 1.2589 | 0.00223 |
| 11g | CH1 | 8.63 | 7.29 | 1 | 1.2589 | 0.00183 |
| | CH6 | 8.17 | 6.56 | 1 | 1.2589 | 0.00164 |
| | CH11 | 8.30 | 6.76 | 1 | 1.2589 | 0.00169 |
| 11n/HT20 | CH1 | 7.75 | 5.96 | 1 | 1.2589 | 0.00149 |
| | CH6 | 7.31 | 5.38 | 1 | 1.2589 | 0.00135 |
| | CH11 | 7.33 | 5.41 | 1 | 1.2589 | 0.00136 |
| 11n/HT40 | CH1 | 6.18 | 4.15 | 1 | 1.2589 | 0.00104 |
| | CH4 | 6.40 | 4.37 | 1 | 1.2589 | 0.00109 |
| | CH7 | 6.44 | 4.41 | 1 | 1.2589 | 0.00110 |

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

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK1809061071E, antenna gain=1dBi.

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