

MPE ESTIMATION

FCC ID: 2ANTC-SD04W

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

| 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 | 9.91 | 9±1(10) | 10 | 1 | 1.2589 | 0.002506 |
| 11g | 9.33 | 9±1(10) | 10 | 1 | 1.2589 | 0.002506 |
| 11n/HT20 | 8.55 | 8±1(9) | 7.94 | 1 | 1.2589 | 0.001990 |
| 11n/HT40 | 7.84 | 7±1(8) | 6.31 | 1 | 1.2589 | 0.001581 |
| $Pd = \frac{P_{out} * G}{4\pi r^2}$ | | | | | | |
| Note: | | | | | | |
| Note: The estimation distance is 20cm. | | | | | | |
| Note: PK Output power= conducted power. | | | | | | |
| Conducted power see the test report UNIA2018052802-1FR-01, antenna gain=1dBi. | | | | | | |

| Mode | CH | PK Output power(dBm) | Output power(mW) | Antenna Gain(dBi) | Antenna Gain (linear) | MPE (mW/cm ²) |
|----------|----|----------------------|------------------|-------------------|-----------------------|---------------------------|
| 11b | 1 | 9.86 | 9.68 | 1 | 1.2589 | 0.002426 |
| | 6 | 9.91 | 9.79 | 1 | 1.2589 | 0.002453 |
| | 11 | 9.77 | 9.48 | 1 | 1.2589 | 0.002375 |
| 11g | 1 | 9.12 | 8.17 | 1 | 1.2589 | 0.002047 |
| | 6 | 9.33 | 8.57 | 1 | 1.2589 | 0.002147 |
| | 11 | 9.25 | 8.41 | 1 | 1.2589 | 0.002107 |
| 11n/HT20 | 1 | 8.55 | 7.16 | 1 | 1.2589 | 0.001794 |
| | 6 | 8.47 | 7.03 | 1 | 1.2589 | 0.001762 |
| | 11 | 8.32 | 6.79 | 1 | 1.2589 | 0.001701 |
| 11n/HT40 | 3 | 7.72 | 5.92 | 1 | 1.2589 | 0.001483 |
| | 6 | 7.65 | 5.82 | 1 | 1.2589 | 0.001458 |
| | 9 | 7.84 | 6.08 | 1 | 1.2589 | 0.001524 |

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

Note:

Note: The estimation distance is 20cm.

Note: PK Output power= conducted power.

Conducted power see the test report UNIA2018052802-1FR-01, antenna gain=1dBi.

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