

## MPE ESTIMATION

FCC ID: Z52NIP-23AI

### 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                      |

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 <sup>2</sup> ) |
|----------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 11b                                                                                                                  | 12.52                    | 12±1(13)           | 19.95                 | 1                 | 1.2589                | 0.004999                  |
| 11g                                                                                                                  | 12.11                    | 12±1(13)           | 19.95                 | 1                 | 1.2589                | 0.004999                  |
| 11n/HT20                                                                                                             | 11.94                    | 11±1(12)           | 15.85                 | 1                 | 1.2589                | 0.003791                  |
| $Pd = \frac{P_{out} * G}{4\pi r^2}$                                                                                  |                          |                    |                       |                   |                       |                           |
| Note:                                                                                                                |                          |                    |                       |                   |                       |                           |
| Note: The estimation distance is 20cm.                                                                               |                          |                    |                       |                   |                       |                           |
| Note: PK Output power= conducted power.<br>Conducted power see the test report UNIA19081410FR-01, antenna gain=1dBi. |                          |                    |                       |                   |                       |                           |

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold

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