

## 10.MPE ESTIMATION

### 10.1.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                      |

| Frequency(MHz) | Power density (mW/ cm <sup>2</sup> ) | Averaging time(minutes) |
|----------------|--------------------------------------|-------------------------|
| 2412           | 1                                    | 30                      |
| 2437           | 1                                    | 30                      |
| 2462           | 1                                    | 30                      |

Note: F= Frequency in MHz

### 10.2. Estimation Result

|  |                        |                         |
|--|------------------------|-------------------------|
| EUT: 300Mbps Wireless N Gigabit Router |                        |                         |
| M/N: TL-WR1043ND                       |                        |                         |
| Test date: 2013-08-06                  | Pressure: 101.2±1.0kpa | Humidity: 48.4±3.0%     |
| Tested by: Leo-Li                      | Test site: RF site     | Temperature: 0.7±0.6 °C |

| Cable loss: 1 dB |      | Attenuator loss: 20 dB |                         |                   |                    | Antenna Gain: 5dBi    |        |
|------------------|------|------------------------|-------------------------|-------------------|--------------------|-----------------------|--------|
| Test Mode        | CH   | Frequency (MHz)        | Peak Output Power (dBm) | Output Power (mW) | Antenna Gain (dBi) | Antenna Gain (Linear) | MPE    |
| 11b              | CH1  | 2412                   | 25.26                   | 335.74            | 5.0                | 3.16                  | 0.2113 |
|                  | CH6  | 2437                   | 25.33                   | 341.19            | 5.0                | 3.16                  | 0.2148 |
|                  | CH11 | 2462                   | 25.02                   | 317.69            | 5.0                | 3.16                  | 0.2000 |
| 11g              | CH1  | 2412                   | 25.32                   | 340.41            | 5.0                | 3.16                  | 0.2143 |
|                  | CH6  | 2437                   | 25.28                   | 337.29            | 5.0                | 3.16                  | 0.2123 |
|                  | CH11 | 2462                   | 25.34                   | 341.98            | 5.0                | 3.16                  | 0.2153 |
| 11n HT20         | CH1  | 2412                   | 22.16                   | 164.44            | 5.0                | 3.16                  | 0.1035 |
|                  | CH6  | 2437                   | 25.03                   | 318.42            | 5.0                | 3.16                  | 0.2004 |
|                  | CH11 | 2462                   | 22.35                   | 171.79            | 5.0                | 3.16                  | 0.1081 |
| 11n HT40         | CH1  | 2422                   | 21.51                   | 141.58            | 5.0                | 3.16                  | 0.0891 |
|                  | CH4  | 2437                   | 24.90                   | 309.03            | 5.0                | 3.16                  | 0.1945 |
|                  | CH7  | 2452                   | 21.35                   | 136.46            | 5.0                | 3.16                  | 0.0859 |