

## 11.MPE ESTIMATION

### 11.1.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                      |

### 11.2.Estimation Result

|  |      |                        |                         |                   |                    |                       |        |
|--|------|------------------------|-------------------------|-------------------|--------------------|-----------------------|--------|
| EUT: PCI-1020 WIRELESS 802.11N PCI ADAPTER |      |                        |                         |                   |                    |                       |        |
| M/N: PCI-1020                              |      |                        |                         |                   |                    |                       |        |
| Test date:2011-06-09                       |      |                        | Pressure: 100.6 kpa     |                   |                    | Humidity: 49 %        |        |
| Tested by: Leo-Li                          |      |                        | Test site: RF Site      |                   |                    | Temperature : 25℃     |        |
| Cable loss: 0.7 dB                         |      | Attenuator loss: 20 dB |                         |                   |                    | Antenna Gain: 1.8 dBi |        |
| Test Mode                                  | CH   | Frequency ( MHz )      | Peak Output Power (dBm) | Output Power (mW) | Antenna Gain (dBi) | Antenna Gain (Linear) | MPE    |
| 11b  | CH1  | 2412                   | 19.56                   | 90.36             | 1.8                | 1.51                  | 0.0272 |
|  | CH6  | 2437                   | 22.26                   | 168.27            | 1.8                | 1.51                  | 0.0507 |
|  | CH11 | 2462                   | 20.52                   | 112.72            | 1.8                | 1.51                  | 0.0340 |
| 11g  | CH1  | 2412                   | 24.39                   | 274.79            | 1.8                | 1.51                  | 0.0828 |
|  | CH6  | 2437                   | 25.37                   | 344.35            | 1.8                | 1.51                  | 0.1037 |
|  | CH11 | 2462                   | 24.77                   | 299.92            | 1.8                | 1.51                  | 0.0904 |
| 11n HT20                                   | CH1  | 2412                   | 23.61                   | 229.61            | 1.8                | 1.51                  | 0.0692 |
|  | CH6  | 2437                   | 25.66                   | 368.13            | 1.8                | 1.51                  | 0.1109 |
|  | CH11 | 2462                   | 24.25                   | 266.07            | 1.8                | 1.51                  | 0.0802 |
| 11n HT40                                   | CH1  | 2412                   | 22.5                    | 177.83            | 1.8                | 1.51                  | 0.0536 |
|  | CH4  | 2437                   | 24.23                   | 264.85            | 1.8                | 1.51                  | 0.0798 |
|  | CH7  | 2462                   | 22.59                   | 181.55            | 1.8                | 1.51                  | 0.0547 |

Note: The estimation distance is 20cm