



# **MAX LIGHT**

## MEASUREMENT REPORT

### Maximum Permissible Exposure

EUT : Wireless-AG Network Mini PCI Adapter

Applicant : Compex Systems Pte Ltd.  
135, Joo Seng Road, #08-01 PM Industrial  
Building Singapore 368363

Manufacturer : Compex Systems Pte Ltd.  
135, Joo Seng Road, #08-01 PM Industrial  
Building Singapore 368363

Model No : IWAVEPORT WLM54AG

FCC ID : TK4-05-WLM54AG

#### *Basis of Calculations:*

$$E^2/3770 = S, \text{ mW/cm}^2$$

$$E, \text{ V/m} = (\text{Pwatts} * \text{Ggain} * 30)^{.5} / d, \text{ meters}$$

$$d = ((\text{Pwatts} * \text{G} * 30) / 3770 * S)^{.5} \quad \text{Pwatts} * \text{Ggain} = 10^{(\text{Pd} - 30 + \text{GdBi}) / 10}$$



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Test Result:

### 802.11a

Max RF Power (dBm)	TX Antenna Gain (dBi)	Testing Result (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
15.61	2.0	0.0910	1

### 802.11b

Max RF Power (dBm)	TX Antenna Gain (dBi)	Testing Result (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
15.77	2.0	0.0940	1

### 802.11g

Max RF Power (dBm)	TX Antenna Gain (dBi)	Testing Result (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
11.16	2.0	0.0326	1

*NOTE: For mobile or fixed location transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.*