

RF Exposure Evaluation Declaration

Product Name : WIRELESS-G 26DBM NETWORK
MINI PCI ADAPTER
Model No. : IWAVEPORT WLM54GP26
FCC ID : TK4-08-WLM54GP26

Applicant : Compex Systems Pte Ltd.

Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Date of Receipt : 2008/07/28

Issued Date : 2008/09/01

Report No. : 088S024-RF-US

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNLA, NVLAP, NIST or any agency of the Government.


The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

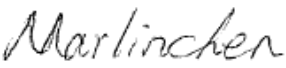
Test Report Certification

Issued Date : 2008/09/01
Report No. : 088S024-RF-US



Product Name : WIRELESS-G 26DBM NETWORK MINI PCI ADAPTER
 Applicant : Compex Systems Pte Ltd
 Address : 135 Joo Seng Road, #08-01 PM Industrial Building
 Singapore 368363
 Manufacturer : Compex Systems Pte Ltd
 Address : 135 Joo Seng Road, #08-01 PM Industrial Building
 Singapore 368363
 Model No. : IWAVEPORT WLM54GP26
 FCC ID : COMPEX
 Rated Voltage : AC 120V/60Hz
 EUT Voltage : DC 3.3V
 Trade Name : COMPEX
 Applicable Standard : FCC OET 65
 Test Result : Complied
 Performed Location : SuZhou EMC laboratory
 No.99 Hongye Rd., Suzhou Industrial Park Loufeng
 Hi-Tech Development Zone., SuZhou, China
 TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
 FCC Registration Number: 800392

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(Gene Chang)

Laboratory Information

We , **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

| | |
|----------------------|--------------------------|
| Taiwan R.O.C. | : BSMI, DGT, CNLA |
| Germany | : TUV Rheinland |
| Norway | : Nemko, DNV |
| USA | : FCC, NVLAP |
| Japan | : VCCI |

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://tw.quietek.com/modules/myalbum/>
 The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>
 If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.
 TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com



LinKou Testing Laboratory :

No. 5, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei, Taiwan, R.O.C.
 TEL : +886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com



Suzhou Testing Laboratory :

No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., SuZhou, China
 TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com



1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time (Minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (A) Limits for Occupational/ Control Exposures | | | | |
| 300-1500 | -- | -- | F/300 | 6 |
| 1500-100,000 | -- | -- | 5 | 6 |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | |
| 300-1500 | -- | -- | F/1500 | 6 |
| 1500-100,000 | -- | -- | 1 | 30 |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

| | | |
|-----------|---|---|
| Product | : | WIRELESS-G 26DBM NETWORK MINI PCI ADAPTER |
| Test Item | : | RF Exposure Evaluation |
| Test Site | : | AC-4 |
| Test Mode | : | Mode 1: Transmitter by 802.11b |

Antenna Gain:

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2dBi or 1.58 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Channel | Channel Frequency (MHz) | Output Power to Antenna (mW) | Power Density at R = 20 cm (mW/cm ²) |
|---------|-------------------------|------------------------------|--|
| 01 | 2412.00 | 568.8529 | 0.179362 |
| 06 | 2437.00 | 576.7665 | 0.181857 |
| 11 | 2462.00 | 413.0475 | 0.130236 |

| | | |
|-----------|---|---|
| Product | : | WIRELESS-G 26DBM NETWORK MINI PCI ADAPTER |
| Test Item | : | RF Exposure Evaluation |
| Test Site | : | AC-4 |
| Test Mode | : | Mode 2: Transmit by 802.11g |

Antenna Gain:

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2dBi or 1.58 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Channel | Channel Frequency (MHz) | Output Power to Antenna (mW) | Power Density at R = 20 cm (mW/cm ²) |
|---------|-------------------------|------------------------------|--|
| 01 | 2412.00 | 349.1403 | 0.110086 |
| 06 | 2437.00 | 372.3917 | 0.117417 |
| 11 | 2462.00 | 283.7919 | 0.089481 |