APPLICANT: WIDELINK CO., LTD.

FCC ID: PISWWL-1100N

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TEST EQUIPMENT LIST

- 1. X Spectrum Analyzer: HP 8566B-Opt 462, S/N 3138A07786, w/ preselector HP 85685A, S/N 3221A01400, Quasi-Peak Adapter HP 85650A, S/N 3303A01690 & Preamplifier HP 8449B-OPT H02, S/N 3008A00372 Cal. 1/19/01 2._X_Biconnical Antenna: Eaton Model 94455-1, S/N 1057, Cal 3/15/00 3. ___Biconnical Antenna: Electro-Metrics Model BIA-25, S/N 1171 Cal. 3/16/01 4._X_Log-Periodic Antenna: Electro-Metrics Model EM-6950, S/N 632 Cal. 3/15/00 5. Log-Periodic Antenna: Electro-Metrics Model LPA-30, S/N 409 Cal. 3/15/00 6._X_Double-Ridged Horn Antenna: Electro-Metrics Model RGA-180, 1-18 GHz, S/N 2319 7.___18-26.3GHz Systron Donner Standard Gain Horn #DBE-520-20 8.____Horn 40-60GHz: ATM Part #19-443-6R 9. ___Line Impedance Stabilization Network: Electro-Metrics Model ANS-25/2, S/N 2604 Cal. 2/9/00 10. ___Temperature Chamber: Tenney Engineering Model TTRC, S/N 11717-7 Cal. 1/21/01 11.____Frequency Counter: HP Model 5385A, S/N 3242A07460 Cal 11/20/00 12.____Peak Power Meter: HP Model 8900C, S/N 2131A00545, Cal. 1/26/01 13._X_Open Area Test Site #1-3meters Cal. 12/22/99 14. Signal Generator: HP 8640B, S/N 2308A21464 Cal. 11/21/00 15.____Signal Generator: HP 8614A, S/N 2015A07428
- 16.____Passive Loop Antenna: EMCO Model 6512, 9KHz to 30MHz, S/N
 9706-1211 Cal. 6/10/00
- 17.___Dipole Antenna Kit: Electro-Metrics Model TDA-30/1-4, S/N 153 Cal. 11/24/00
- 18.___AC Voltmeter: HP Model 400FL, S/N 2213A14499 Cal. 2/1/01
- 19. ____Digital Multimeter: Fluke Model 8012A, S/N 4810047 Cal 9/21/99
- 20.____Digital Multimeter: Fluke Model 77, S/N 43850817 Cal 11/16/00
- 21.___Oscilloscope: Tektronix Model 2230, S/N 300572 Cal 2/1/01

TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC. Shielded interface cables were used in all cases except for cables connecting to the telephone line and the power cords. A test program was run which simulated a normal data transmission on a network.

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STAN-DARD C63.4-1992 using a 50uH LISN. Both lines were observed with the UUT transmitting. The bandwidth of the spectrum analyzer was 10kHz with an appropriate sweep speed. The ambient temperature of the UUT was $77^{\circ}F$ with a humidity of 53%.

TEST PROCEDURES CONTINUED

BANDWIDTH 6.0dB: The measurements were made with the spectrum analyzer's resolution bandwidth(RBW)=1.0MHz and the video bandwidth(VBW) =3.0MHz and the span set as shown on Page 7A.

POWER OUTPUT: The RF power output was measured at the antenna feed point using a peak power meter.

ANTENNA CONDUCTED EMISSIONS: The RBW=100KHz, VBW=300KHz and the span set to 10.0MHz and the spectrum was scanned from 30MHz to the 10th Harmonic of the fundamental. Above 1.0GHz the resolution bandwidth was 1.0MHz and the VBW = 3.0MHz and the span to 50MHz.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a preselector. The bandwidth(RBW) of the spectrum analyzer was 100kHz up to 1GHz and 1.0MHz above 1GHz with an appropriate sweep speed. The VBW above 1.0GHz was = 3.0MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 77° F with a humidity of 53%.

PRODUCT DESCRIPTION:

This device is a wireless LAN adapter card that provides wireless connection between computers.

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	PCMCIA		
	WIRELESS -	MICRON	
	NETWORK	LAPTOP	
	CARD	ĺ	
	\/	COMPUTER	
	,	\/	
\ -			/

FREQUENCY RANGE:	2.4-2.4835 GHz
SUPPORT BIT RATES:	11 Mbps CCK, 5.5 Mbps CCK, 2 Mbps DQPSK, 1 mPBS dbsk
SPREADING:	DSSS (Direct Sequence Spread Spectrum)
CHIP RATE:	11 Mcps
ANTENNA:	External 2 dBi Antenna with SMA connector
MEDIA ACCESS PROTOCOL:	CSMA/CA (Collission Avoidance) with ACK

APPLICANT: WIDELINK CO., LTD.

FCC ID: PISWWL-1100N

NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE

RULES PART NUMBER: 15.107(a)

REQUIREMENTS: .45 - 30 MHz 250 uV OR 47.96 dBuV TEST PROCEDURE: ANSI STANDARD C63.4-1992. The spectrum was scanned from .45 to 30 MHz.

TEST DATA:

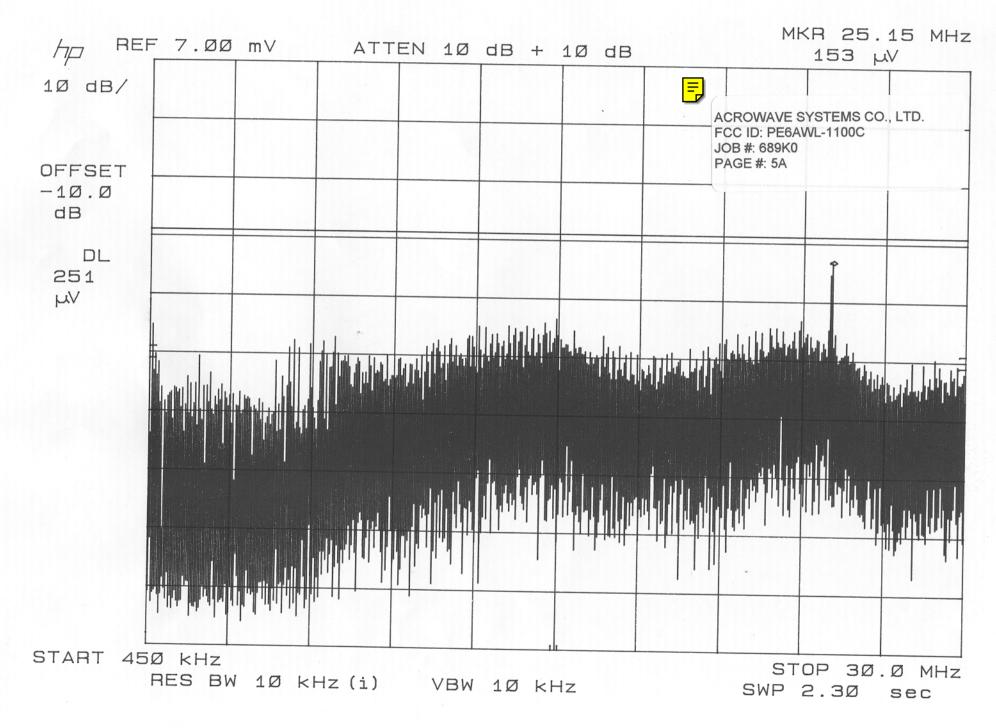
THE HIGHEST EMISSION READ FOR LINE 1 WAS 153uv @ 25.15MHz.

THE HIGHEST EMISSION READ FOR LINE 2 WAS 135uv @ 25.15MHz.

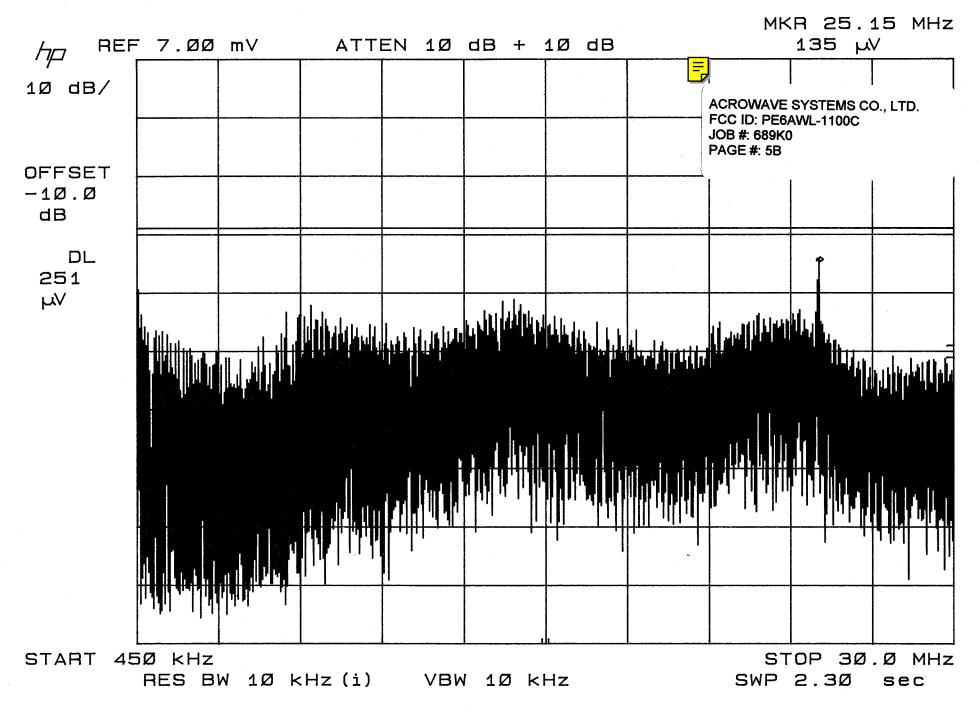
THE GRAPHS IN THE NEXT TWO PAGES REPRESENT THE EMISSIONS TAKEN FOR THIS DEVICE.

TEST RESULTS: Both lines were observed. The measurements indicate that the unit DOES appear to meet the FCC requirements for this class of equipment.

LINE 1



LINE 2



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APPLICANT: WIDELINK CO., LTD.
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FCC ID: PISWWL-1100N

NAME OF TEST: 6.0dB BANDWIDTH

RULES PART NUMBER: 15.247(a)(2)

REQUIREMENTS: The 6.0dB bandwidth must be greater than 500KHz.

MEASUREMENT: The 6.0dB bandwidth measured @ 2442.00MHz was 11.10MHz.

MEASUREMENT DATA: See plots on the next 2 pages.

JTPUT	
J	.I.D.O.I.

RULES PART NUMBER: 15.247(b) 1.0Watt or +30dBm

MEASUREMENT: 35.6 mWATTS @ 2442.00 MHz

15.247(c) Method of Measuring RF Power output: The Peak power Sensor was connected in place of the antenna.

