



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page  1  of  99



**TEST REPORT**

Product Name : Wireless LAN PCI Adapter

Model Number : PC80211G

Applicant : PRO-NETS TECHNOLOGY CORPORATION

Address : 10F-1, No. 92, Pao-Chung Road, Hsin Tien Taipei, Taiwan, R.O.C.

Received Date : Apr. 28, 2004

Tested Date : Dec. 16~24, 2003

Notes :

1. This report will be invalid if duplicated or photocopied in part.
2. This report refers only to the specimen(s) submitted to testing, and be invalid as seperately used.
3. This report is invalid without examination stamp and signature of this institute.
4. The tested specimen(s) will be preserved for thirty days from the data issued.
5. The report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.
6. **This report is transferred from ER03-12-037.**





**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page  2  of  99

## Test Report Certification

**Product Name** : Wireless LAN PCI Adapter

**Model Number** : PC80211G

**Applicant** : PRO-NETS TECHNOLOGY CORPORATION

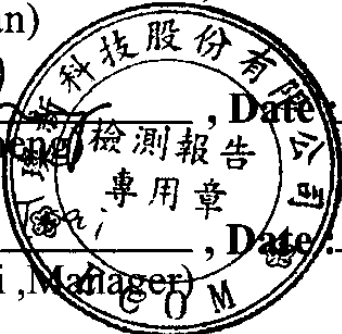
**Measurement Standard :**

FCC 47 C.F.R. Part 15, Subpart B and Subpart C (2003),  
ANSI C63.4 (2001)

**Tested By** :  Alan Fan , **Date** :  Apr. 28, 2004   
 (Alan Fan)

**Reviewed By** :  Roger Sheng , **Date** :  Apr. 28, 2004   
 (Roger Sheng)

**Approved By** :  Chieh-De Tsai , **Date** :  Apr. 28, 2004   
 (Chieh-De Tsai, Manager)



WE HEREBY CERTIFY THAT: The measurements shown in the attachment were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable. We assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.



**TABLE OF CONTENTS**

TITLE	PAGE NO.
<b>1. GENERAL INFORMATION .....</b>	<b>5</b>
1.1 General Statement .....	5
1.2 General Description of EUT & Power .....	5
1.3 Description of Peripherals.....	6
1.4 EUT & Peripherals Setup Diagram.....	7
1.5 EUT Operating Condition .....	8
1.6 Description of Test Site .....	8
1.7 Summary of Test Results .....	9
<b>2. CONDUCTED POWERLINE TEST .....</b>	<b>10</b>
2.1 Test Equipments .....	10
2.2 Test Setup .....	10
2.3 Conducted Power Line Emission Limit.....	11
2.4 Test Procedure .....	11
2.5 Uncertainty of Conducted Emission .....	11
2.6 Conducted RF Voltage Measurement .....	12-15
2.7 Photos of Conduction Test.....	16-17
<b>3. RADIATED EMISSION TEST .....</b>	<b>18</b>
3.1 Test Equipments .....	18
3.2 Test Setup .....	18
3.3 Radiation Limit.....	19
3.4 Test Procedures.....	20
3.5 Uncertainty of Radiated Emission .....	20
3.6 Radiated RF Noise Measurement .....	21-72
3.7 Photos of Open Site .....	73-76
<b>4. 6dB BANDWIDTH MEASUREMENT .....</b>	<b>77</b>
4.1 Test Equipments .....	77
4.2 Test Setup .....	77
4.3 Limits of 6dB Bandwidth Measurement.....	77
4.4 Test Procedure .....	77
4.5 Uncertainty of Conducted Emission .....	77
4.6 Test Results.....	78
4.7 Photo of 6db Bandwidth Measurement.....	79-80
<b>5. MAXIMUM PEAK OUTPUT POWER .....</b>	<b>81</b>
5.1 Test Equipments .....	81
5.2 Test Setup .....	81
5.3 Limits of Maximum Peak Output Power .....	81
5.4 Test Procedure .....	82
5.5 Uncertainty of Conducted Emission .....	82
5.6 Test Results.....	82



**TABLE OF CONTENTS**

TITLE	PAGE NO.
<b>6. POWER SPECTRAL DENSITY MEASUREMENT .....</b>	<b>83</b>
6.1 Test Equipments .....	83
6.2 Test Setup .....	83
6.3 Limits of Power Spectral Density Measurement .....	83
6.4 Test Procedure .....	84
6.5 Uncertainty of Conducted Emission .....	84
6.6 Test Results.....	84
6.7 Photo of Power Spectral Density Measurement .....	85-86
<b>7. BAND EDGE MEASUREMENT .....</b>	<b>87</b>
7.1 Test Equipments .....	87
7.2 Test Setup .....	87
7.3 Limits of Out of Band Emissions Measurement.....	87
7.4 Test Procedure .....	88
7.5 Uncertainty of Conducted Emission .....	88
7.6 Test Results.....	88-91
7.7 Photo of Out of Band edge Measurement.....	92-95
<b>8. ANTENNA REQUIREMENT .....</b>	<b>96</b>
8.1 Standard Applicable.....	96
8.2 Antenna Connected Construction .....	96
<b>9. RF EXPOSURE EVALUATION .....</b>	<b>97</b>
9.1 Friis Formula.....	97
9.2 EUT Operating Condition.....	97
9.3 Test Result of RF Exposure Evaluation.....	98
9.3.1 Antenna Gain.....	98
9.3.2 Output Power into Antenna & RF Exposure Evaluation Distance .....	98-99



## 1. GENERAL INFORMATION

### 1.1 General Statement

MEASUREMENT DEVIATION : Comply with standard in full

TRACEABILITY : This test result is traceable to National or International std.

### 1.2 General Description of EUT & Power

MANUFACTURER : PRO-NETS TECHNOLOGY CORPORATION

SAMPLE NAME : Wireless LAN PCI Adapter

MODEL NAME : PC80211G

FREQUENCY RANGE : 2412 MHz to 2462MHz

CHANNEL NUMBER : 11

AIR DATA RATE : 54Mbps (802.11g Mode), 11Mbps (802.11b Mode)

TYPE OF MODULATION : Orthogonal Frequency Division Multiplex  
and Direct Sequence Spread Spectrum

FREQUENCY SELECTION : BY SOFTWARE

EUT DESCRIPTION : 2.4Ghz (Orthogonal Frequency Division Multiplex  
and Direct Sequence Spread Spectrum) data transceiver for  
Wireless LAN PCI Adapter

ANTENNA TYPE : Dipole Antenna  
Antenna 1 (white) with external irremovable cable,  
Antenna Gain : 2dBi, cable loss : 1dB.  
Antenna 2 (black), Antenna Gain : 2dBi.  
Antenna type is reverse SMA.

POWER SOURCE : 3.3VDC (From PC)



### 1.3 Description of Peripherals

#### (1) PC

MANUFACTURER : HP CORP.  
MODEL NUMBER : t123d  
SERIAL NUMBER : TW31720190  
FCC ID : DOC  
POWER CORD : Unshielded, Detachable, 1.8m

#### (2) Notebook PC

MANUFACTURER : COMPAQ CORP.  
MODEL NUMBER : N800V  
SERIAL NUMBER : 5Y3EKSQZD1TJ  
FCC ID : DOC  
POWER CORD : Unshielded, Detachable, 1.8m

#### (3) PRINTER

MANUFACTURER : HP Corp.  
MODEL NUMBER : C6431D  
SERIAL NUMBER : CN19T6S011  
FCC ID : DOC  
POWER SOURCE : 100-240VAC,50/60Hz,0.7A  
SIGNAL CABLE : Shielded , Undetachable , 1.8m

#### (4) MODEM

MANUFACTURER : ZYXEL communication Corp.  
MODEL NUMBER : Omni 56K  
SERIAL NUMBER : S1Z4107729  
FCC ID : 1880MN156K  
POWER SOURCE : 9VAC(From Power Adapter)  
SIGNAL CABLE : Shielded , Undetachable , 1.8m

#### (5) MOUSE

MANUFACTURER : HP CORP.  
MODEL NUMBER : M-S34  
SERIAL NUMBER : LZE95050431  
FCC ID : DZL211029  
SIGNAL CABLE : Shielded , Undetachable , 1.8m  
POWER SOURCE : 5VDC (from PC)

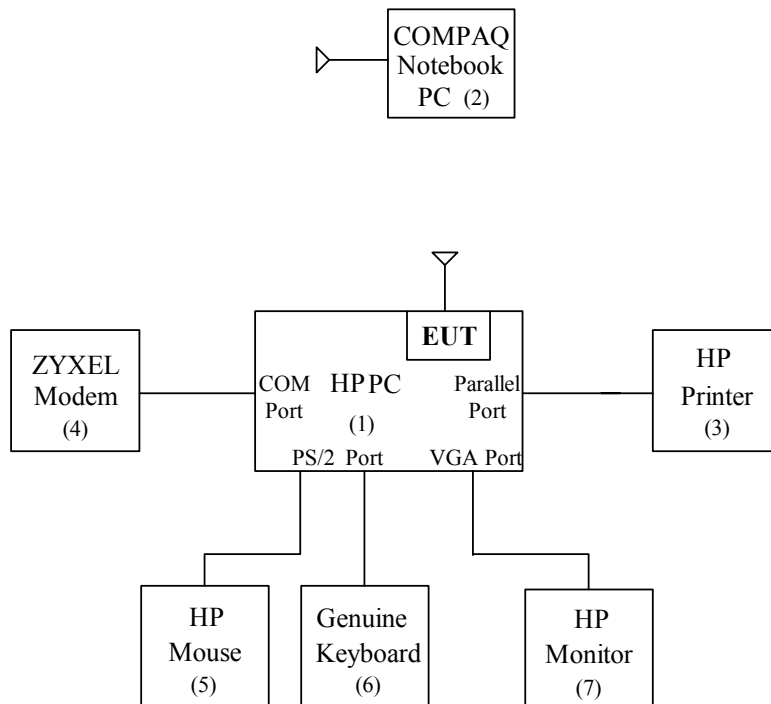
**(6) KEYBOARD**

MANUFACTURER : Genuine Company INC.  
 MODEL NUMBER : K288  
 SERIAL NUMBER : 206628619  
 FCC ID : FKD46AK288  
 POWER SOURCE : 5VDC (from PC)  
 SIGNAL CABLE : Shielded , Undetachable , 1.8m

**(7) MONITOR**

MANUFACTURER : HP CORP.  
 MODEL NUMBER : D8894A  
 SERIAL NUMBER : CN00905269  
 FCC ID : ARSCM569N  
 POWER CORD : UnShielded , Detachable , 1.8m  
 SIGNAL CABLE : Shielded , Undetachable , 1.8m

**1.4 EUT & Peripherals Setup Diagram**





## 1.5 EUT Operating Condition

1. Set up all equipments like the setup diagram.
2. PC (1) ping 192.168.1.90 -t to Notebook PC (2).
3. Notebook PC (2) ping 192.168.1.80 -t to PC (1).
4. All of the function are under run.
5. Start test.

## 1.6 Description of Test Site

### SITE DESCRIPTION

FCC Certificate NO. : 90585

BSMI Certificate NO. : SL2-IN-E-0002

NVLAP Lab code : 200118-0

CNLA Certificate NO. : CNLA-ZL97018

VCCI Certificate NO. : R-1189, C-1250

TÜV Certificate NO. : 10008375

NAME OF SITE : Ecom Sertech Corp. Hsin-Chu Lab.  
(Spin-off from ITRI / ERSO on Apr. 01, 2003)

SITE LOCATION : Rm.258, Bldg.17, NO.195 , Sec. 4, Chung Hsing Rd.,  
Chu-Tung Chen. Hsin-Chu, Taiwan 310 R.O.C.





## Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 9 of 99

### 1.7 Summary of Test Results

The EUT has been tested according to the following specifications :

#### APPLIED STANDARD : FCC 47 C.F.R. Part 15, Subpart B and Subpart C

Standard Section	Test Type and Limit	Result	REMARK
15.107 15.207	AC Power Conducted Emission Limit : 15.107	PASS	Meet the requirement of limit
15.247(a)(2)	Spectrum Bandwidth of a Orthogonal Frequency Division Multiplex System Limit : 6dB bandwidth > 500KHz	PASS	Meet the requirement of limit
15.247(b)	Maximum Peak Output Power Limit : max. 30dBm	PASS	Meet the requirement of limit
15.109 15.205 15.209	Transmitter Radiated Emissions Limit : Table 15.209	PASS	Meet the requirement of limit
15.247(d)	Power Spectral Density Limit : max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Out of Band Emission and Restricted Band Radiation Limit:20dB less than peak value of fundamental frequency Restricted band Limit:Table 15.209	PASS	Meet the requirement of limit



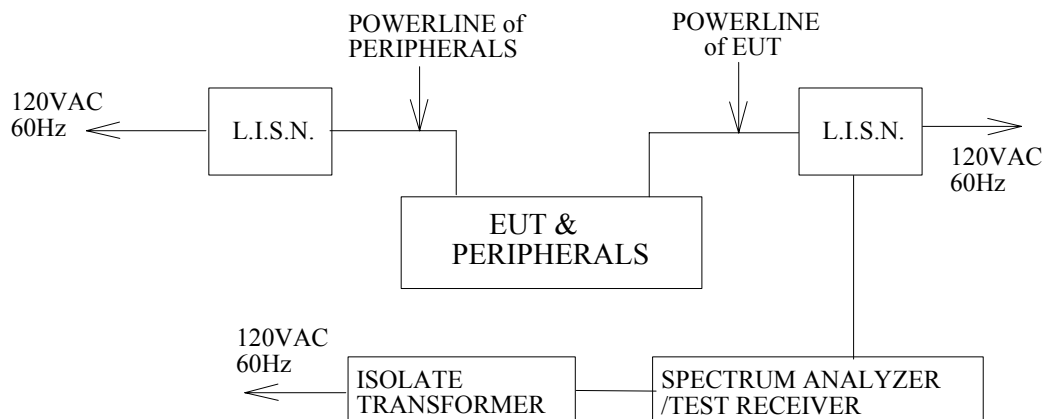
## 2. CONDUCTED POWERLINE TEST

### 2.1 Test Equipments

The following test equipments are used during the conducted powerline tests :

Manufacturer or Type	Model No	Serial No.	Date of Calibration	Calibration Period	Remark
SPECTRUM ANALYZER & DISPLAY	HP 8568A	2235A02320	APR. 01, 2003	1 Year	PRETEST
QUASI-PEAK ADAPTER	HP 85650 A	2341A00672	APR. 01, 2003	1 Year	PRETEST
ISOLATION TRANSFORMER	SOLAR 7032-1	N/A	N/A	N/A	FINAL
L.I.S.N.	EMCO 3850/2	9311-1025 9401-1028	JAN. 08, 2003 For Characteristic impedance MAY. 18, 2003 For Insertion loss	1 Year	FINAL
TEST RECEIVER	R/S ESHS30	838550/003	JUN. 07, 2003	1 Year	FINAL
SHIELDED ROOM	KEENE 5983	NO.1	N/A	N/A	FINAL
PULSE LIMIT	R/S EHS3Z2	357.8810.52	JUL. 10, 2003	1 Year	FINAL
N TYPE COAXIAL CABLE	-----	-----	JUL. 10, 2003	1 Year	FINAL
50Ω TERMINATOR	-----	-----	JUL. 10, 2003	1 Year	FINAL

### 2.2 Test Setup





### 2.3 Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

Frequency (MHz)	Maximum RF Line Voltage (Db $\mu$ v)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56	56-46
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

For intentional device, according to § 15.207(a) Line Conducted Emission Limit is same as above table.

### 2.4 Test Procedure

The test procedure is performed in a 12ft×12ft×8ft(L×W×H) shielded room. the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chasis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chasis ground also bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

### 2.5 Uncertainty of Conducted Emission

The uncertainty of conducted emission is  $\pm 1.36$ dB.



## 2.6 Conducted RF Voltage Measurement

The frequency spectrum from 0.15 MHz to 30 MHz was investigated. All emissions not reported are much lower than the prescribed limits.

Temperature : 26 °C

Humidity : 65 % RH

Frequency (MHz)	Loss(dB)		Measurement				L1 Emission (dBμV)		L2 Emission (dBμV)		Limits (dBμV)	
			L1(dBμV)		L2(dBμV)		Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.
	L1	L2	Q.P.	A.V.	Q.P.	A.V.						
0.150	0.10	0.20	*	*	*	*	*	*	*	*	66.00	56.00
0.216	0.10	0.20	34.20	*	*	*	34.30	*	*	*	62.97	52.97
0.288	0.10	0.20	*	*	31.90	*	*	*	32.10	*	60.58	50.58
0.390	0.10	0.20	34.70	*	34.70	*	34.80	*	34.90	*	58.06	48.06
0.580	0.10	0.20	29.50	*	32.00	*	29.60	*	32.20	*	56.00	46.00
1.370	0.10	0.20	*	*	31.40	*	*	*	31.60	*	56.00	46.00
1.810	0.10	0.20	33.50	*	*	*	33.60	*	*	*	56.00	46.00
2.530	0.15	0.20	32.60	*	*	*	32.75	*	*	*	56.00	46.00
3.620	0.20	0.20	*	*	26.90	*	*	*	27.10	*	56.00	46.00
4.270	0.20	0.20	*	*	28.00	*	*	*	28.20	*	56.00	46.00
4.410	0.20	0.20	29.80	*	*	*	30.00	*	*	*	56.00	46.00
14.900	0.59	0.60	*	*	38.00	*	*	*	38.60	*	60.00	50.00
15.050	0.61	0.61	36.80	*	*	*	37.41	*	*	*	60.00	50.00
16.350	0.70	0.70	*	*	39.20	*	*	*	39.90	*	60.00	50.00
17.650	0.83	0.90	38.00	*	*	*	38.83	*	*	*	60.00	50.00
30.000	1.40	1.80	*	*	*	*	*	*	*	*	60.00	50.00

- REMARKS : 1. \* Undetectable or the Q.P.values is lower than the limits of Ave.  
 2. The EUT can be operated in TX and RX mode. After a preliminary test, the EUT in TX mode will have highest level of AC line conducted emission. The test results for EUT in TX mode are recorded in final test report as representative.  
 3. For 802.11b mode.  
 4. For Antenna 1 (white).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 13 of 99

The frequency spectrum from 0.15 MHz to 30 MHz was investigated. All emissions not reported are much lower than the prescribed limits.

Temperature : 26 °C

Humidity : 65 % RH

Frequency (MHz)	Loss(dB)		Measurement				L1 Emission (dBµV)		L2 Emission (dBµV)		Limits (dBµV)	
			L1(dBµV)		L2(dBµV)		Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.
	L1	L2	Q.P.	A.V.	Q.P.	A.V.						
0.150	0.10	0.20	*	*	*	*	*	*	*	*	66.00	56.00
0.216	0.10	0.20	34.20	*	*	*	34.30	*	*	*	62.97	52.97
0.288	0.10	0.20	*	*	32.00	*	*	*	32.20	*	60.58	50.58
0.390	0.10	0.20	34.40	*	34.70	*	34.50	*	34.90	*	58.06	48.06
0.650	0.10	0.20	*	*	32.00	*	*	*	32.20	*	56.00	46.00
1.010	0.10	0.20	30.50	*	*	*	30.60	*	*	*	56.00	46.00
1.880	0.10	0.20	32.00	*	32.20	*	32.10	*	32.40	*	56.00	46.00
2.460	0.15	0.20	*	*	30.00	*	*	*	30.20	*	56.00	46.00
2.600	0.16	0.20	31.40	*	*	*	31.56	*	*	*	56.00	46.00
4.340	0.20	0.20	*	*	28.10	*	*	*	28.30	*	56.00	46.00
4.700	0.20	0.20	30.00	*	*	*	30.20	*	*	*	56.00	46.00
10.400	0.50	0.50	44.20	*	43.50	*	44.70	*	44.00	*	60.00	50.00
16.200	0.70	0.70	39.90	*	40.00	*	40.60	*	40.70	*	60.00	50.00
30.000	1.40	1.80	*	*	*	*	*	*	*	*	60.00	50.00

- REMARKS : 1. \* Undetectable or the Q.P.values is lower than the limits of Ave.  
 2. The EUT can be operated in TX and RX mode. After a preliminary test, the EUT in TX mode will have highest level of AC line conducted emission. The test results for EUT in TX mode are recorded in final test report as representative.  
 3. For 802.11g mode.  
 4. For Antenna 1 (white).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 14 of 99

The frequency spectrum from 0.15 MHz to 30 MHz was investigated. All emissions not reported are much lower than the prescribed limits.

Temperature : 26 °C

Humidity : 65 % RH

Frequency (MHz)	Loss(dB)		Measurement				L1 Emission (dBμV)		L2 Emission (dBμV)		Limits (dBμV)	
			L1(dBμV)		L2(dBμV)		Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.
	L1	L2	Q.P.	A.V.	Q.P.	A.V.						
0.150	0.10	0.20	*	*	*	*	*	*	*	*	66.00	56.00
0.216	0.10	0.20	34.20	*	*	*	34.30	*	*	*	62.97	52.97
0.288	0.10	0.20	*	*	32.00	*	*	*	32.20	*	60.58	50.58
0.390	0.10	0.20	34.60	*	34.70	*	34.70	*	34.90	*	58.06	48.06
0.650	0.10	0.20	*	*	32.00	*	*	*	32.20	*	56.00	46.00
1.080	0.10	0.20	31.70	*	*	*	31.80	*	*	*	56.00	46.00
1.370	0.10	0.20	*	*	32.90	*	*	*	33.10	*	56.00	46.00
1.590	0.10	0.20	32.60	*	*	*	32.70	*	*	*	56.00	46.00
2.600	0.16	0.20	32.80	*	*	*	32.96	*	*	*	56.00	46.00
2.960	0.20	0.20	*	*	30.90	*	*	*	31.10	*	56.00	46.00
4.400	0.20	0.20	30.60	*	*	*	30.80	*	*	*	56.00	46.00
4.550	0.20	0.20	*	*	29.10	*	*	*	29.30	*	56.00	46.00
10.350	0.50	0.50	44.10	*	*	*	44.60	*	*	*	60.00	50.00
10.400	0.50	0.50	*	*	42.60	*	*	*	43.10	*	60.00	50.00
16.250	0.70	0.70	40.70	*	*	*	41.40	*	*	*	60.00	50.00
16.400	0.70	0.70	*	*	39.80	*	*	*	40.50	*	60.00	50.00
30.000	1.40	1.80	*	*	*	*	*	*	*	*	60.00	50.00

- REMARKS : 1. \* Undetectable or the Q.P.values is lower than the limits of Ave.  
 2. The EUT can be operated in TX and RX mode. After a preliminary test, the EUT in TX mode will have highest level of AC line conducted emission. The test results for EUT in TX mode are recorded in final test report as representative.  
 3. For 802.11b mode.  
 4. For Antenna 2 (black).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 15 of 99

The frequency spectrum from 0.15 MHz to 30 MHz was investigated. All emissions not reported are much lower than the prescribed limits.

Temperature : 26 °C

Humidity : 65 % RH

Frequency (MHz)	Loss(dB)		Measurement				L1 Emission (dBµV)		L2 Emission (dBµV)		Limits (dBµV)	
			L1(dBµV)		L2(dBµV)		Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.
	L1	L2	Q.P.	A.V.	Q.P.	A.V.						
0.150	0.10	0.20	*	*	*	*	*	*	*	*	66.00	56.00
0.216	0.10	0.20	34.20	*	*	*	34.30	*	*	*	62.97	52.97
0.288	0.10	0.20	*	*	32.00	*	*	*	32.20	*	60.58	50.58
0.390	0.10	0.20	34.60	*	34.70	*	34.70	*	34.90	*	58.06	48.06
1.080	0.10	0.20	30.40	*	30.90	*	30.50	*	31.10	*	56.00	46.00
1.370	0.10	0.20	*	*	32.60	*	*	*	32.80	*	56.00	46.00
1.590	0.10	0.20	33.10	*	*	*	33.20	*	*	*	56.00	46.00
2.820	0.18	0.20	32.80	*	*	*	32.98	*	*	*	56.00	46.00
2.960	0.20	0.20	*	*	30.30	*	*	*	30.50	*	56.00	46.00
4.120	0.20	0.20	31.00	*	*	*	31.20	*	*	*	56.00	46.00
4.550	0.20	0.20	*	*	28.00	*	*	*	28.20	*	56.00	46.00
10.300	0.50	0.50	43.10	*	43.40	*	43.60	*	43.90	*	60.00	50.00
16.200	0.70	0.70	38.10	*	*	*	38.80	*	*	*	60.00	50.00
16.400	0.70	0.70	*	*	37.50	*	*	*	38.20	*	60.00	50.00
30.000	1.40	1.80	*	*	*	*	*	*	*	*	60.00	50.00

- REMARKS : 1. \* Undetectable or the Q.P.values is lower than the limits of Ave.  
 2. The EUT can be operated in TX and RX mode. After a preliminary test, the EUT in TX mode will have highest level of AC line conducted emission. The test results for EUT in TX mode are recorded in final test report as representative.  
 3. For 802.11g mode.  
 4. For Antenna 2 (black).

## 2.7 Photos of Conduction Test

For Antenna 1 (white)





For Antenna 2 (black)



### 3. RADIATED EMISSION TEST

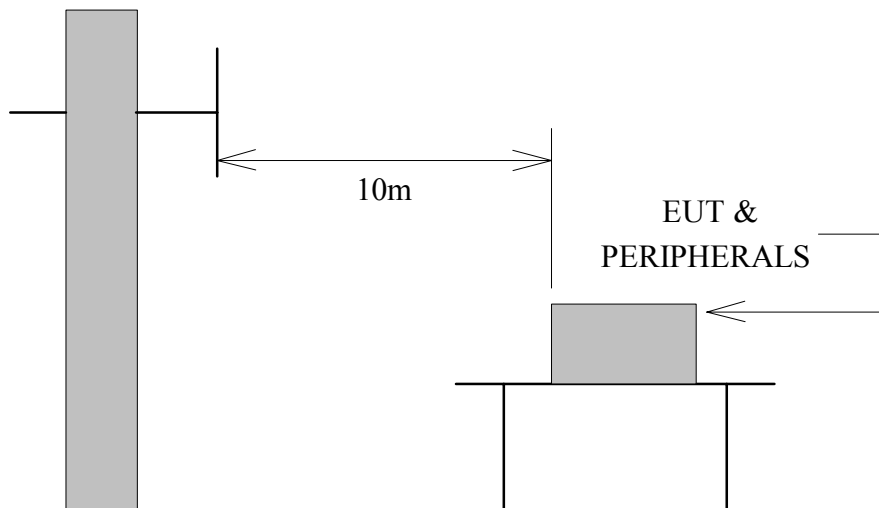
#### 3.1 Test Equipments

The following test equipments are utilized in making the measurements contained in this report.

Manufacturer or Type	Model No	Serial No	Date of Calibration	Calibration Period	Remark
CHASE BI-LOG ANTENNA	CBL6112B	2421	MAY. 07, 2003	1 Year	FINAL
OPEN SITE	-----	No.2	JAN. 10, 2003	1 Year	FINAL
N TYPE COAXIAL CABLE	CHA9525	4	JUL. 13, 2003	1 Year	FINAL
Horn Antenna	AH-118	10089	FEB. 25, 2003	1 Year	FINAL
HP Pre-amplifier	8449B	3008A01471	NOV. 07, 2003	1 Year	FINAL
HP High pass filter	84300/80038	011	cal. on use	1 Year	FINAL
Horn Antenna	AH-840	03077	FEB. 25, 2003	1 Year	FINAL

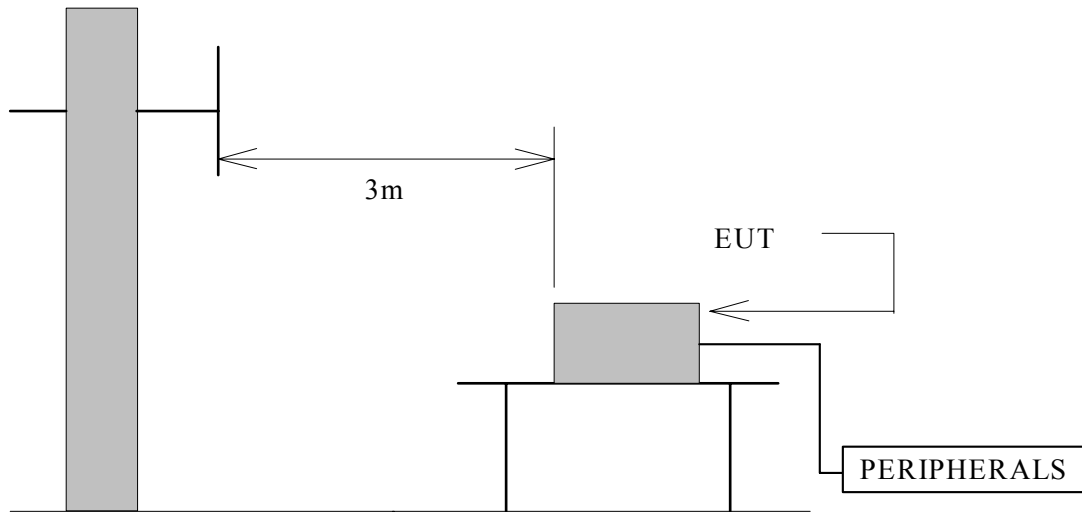
#### 3.2 Test Setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 to 1GHz.



Antenna Elevation Variable

The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



Antenna Elevation Variable

### 3.3 Radiation Limit

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values :

Frequency (MHz)	Distance (Meters)	Radiated (dB $\mu$ V/M)	Radiated ( $\mu$ V/M)
30-230	10	30	-----
230-1000	10	37	-----
Above 1000	3	54.0	500

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.



### 3.4 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. During performing radiated emission below 1GHz, the EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE :

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

### 3.5 Uncertainty of Radiated Emission

The uncertainty of radiated emission is  $\pm 2.72$ dB.



### 3.6 Radiated RF Noise Measurement

Test Requirement: 15.109, 15.209

The frequency spectrum from 30 MHz to 1000 MHz was investigated. All emissions not reported are much lower than the prescribed limits.

All readings are quasi-peak values.

Temperature : 19.4 °C

Humidity : 59 % RH

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Meter Reading at 10m(dBμV/M)		Limits at 10m (dBμV/M)	Emission Level at 10m(dBμV/M)	
			Horizontal	Vertical		Horizontal	Vertical
30.00	17.98	0.90	*	*	30.00	*	*
298.69	13.39	3.59	8.20	9.40	37.00	25.18	26.38
310.33	13.74	3.66	9.10	12.00	37.00	26.51	29.41
430.61	17.12	4.41	9.30	13.10	37.00	30.83	34.63
502.39	18.02	4.91	8.50	10.10	37.00	31.43	33.03
609.09	19.31	5.45	8.10	9.20	37.00	32.86	33.96
710.94	19.95	5.95	8.00	9.00	37.00	33.90	34.90
815.70	20.71	6.43	7.60	9.30	37.00	34.74	36.44
1000.00	21.30	7.00	*	*	37.00	*	*

REMARKS : 1. \* Undetectable

2. Emission level (dBμV/M) =Antenna Factor (dB/m) + Cable loss (dB) + Meter Reading (dBμV).

3. According to technical experiences, all spurious emission at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.

4. Mode : Wireless 802.11b Transmitting test.

5. For Antenna 1 (white).

6. The test data marked in gray background means the EUT emission data is located in the margin uncertainty range of emission limits.



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd.,ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 22 of 99

Test Requirement: 15.109, 15.209

The frequency spectrum from 30 MHz to 1000 MHz was investigated. All emissions not reported are much lower than the prescribed limits.

All readings are quasi-peak values.

Temperature : 19.4 °C

Humidity : 59 % RH

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Meter Reading at 3m(dB $\mu$ V/M)		Limits at 3m (dB $\mu$ V/M)	Emission Level at 3m(dB $\mu$ V/M)	
			Horizontal	Vertical		Horizontal	Vertical
30.00	17.98	0.90	*	*	30.00	*	*
298.69	13.39	3.59	8.40	9.60	37.00	25.38	26.58
310.33	13.74	3.66	9.40	12.30	37.00	26.81	29.71
430.61	17.12	4.41	9.80	13.50	37.00	31.33	35.03
502.39	18.02	4.91	8.90	10.30	37.00	31.83	33.23
609.09	19.31	5.45	8.30	9.50	37.00	33.06	34.26
710.94	19.95	5.95	8.10	9.30	37.00	34.00	35.20
815.70	20.71	6.43	7.90	9.60	37.00	35.04	36.74
1000.00	21.30	7.00	*	*	37.00	*	*

REMARKS : 1. \*Undetectable

2. Emission level (dB $\mu$ V/M) =Antenna Factor (dB/m) + Cable loss (dB)  
+ Meter Reading (dB $\mu$ V).

3. According to technical experiences, all spurious emission at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in finial test.

4. Mode : Wireless 802.11g Transmitting test.

5. For Antenna 1 (white).

6. The test data marked in gray background means the EUT emission data is located in the margin uncertainty range of emission limits.



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd.,ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 23 of 99

Test Requirement: 15.109, 15.209

The frequency spectrum from 30 MHz to 1000 MHz was investigated. All emissions not reported are much lower than the prescribed limits.

All readings are quasi-peak values.

Temperature : 19.4 °C

Humidity : 59 % RH

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Meter Reading at 3m(dBμV/M)		Limits at 3m (dBμV/M)	Emission Level at 3m(dBμV/M)	
			Horizontal	Vertical		Horizontal	Vertical
30.00	17.98	0.90	*	*	30.00	*	*
298.69	13.39	3.59	8.30	9.70	37.00	25.28	26.68
310.33	13.74	3.66	9.20	12.30	37.00	26.61	29.71
430.61	17.12	4.41	9.40	13.40	37.00	30.93	34.93
502.39	18.02	4.91	8.30	10.20	37.00	31.23	33.13
609.09	19.31	5.45	9.30	9.10	37.00	34.06	33.86
710.94	19.95	5.95	8.40	8.70	37.00	34.30	34.60
815.70	20.71	6.43	6.90	7.80	37.00	34.04	34.94
1000.00	21.30	7.00	*	*	37.00	*	*

REMARKS : 1. \* Undetectable

2. Emission level (dBμV/M) = Antenna Factor (dB/m) + Cable loss (dB) + Meter Reading (dBμV).

3. According to technical experiences, all spurious emission at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.

4. Mode : Wireless 802.11b Transmitting test.

5. For Antenna 2 (black).

6. The test data marked in gray background means the EUT emission data is located in the margin uncertainty range of emission limits.



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd.,ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 24 of 99

Test Requirement: 15.109, 15.209

The frequency spectrum from 30 MHz to 1000 MHz was investigated. All emissions not reported are much lower than the prescribed limits.

All readings are quasi-peak values.

Temperature : 19.4 °C

Humidity : 59 % RH

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Meter Reading at 3m(dBμV/M)		Limits at 3m (dBμV/M)	Emission Level at 3m(dBμV/M)	
			Horizontal	Vertical		Horizontal	Vertical
30.00	17.98	0.90	*	*	30.00	*	*
298.69	13.39	3.59	8.50	10.10	37.00	25.48	27.08
310.33	13.74	3.66	9.30	12.70	37.00	26.71	30.11
430.61	17.12	4.41	9.50	13.60	37.00	31.03	35.13
502.39	18.02	4.91	8.50	10.60	37.00	31.43	33.53
609.09	19.31	5.45	9.40	9.30	37.00	34.16	34.06
710.94	19.95	5.95	8.60	8.90	37.00	34.50	34.80
815.70	20.71	6.43	7.10	7.60	37.00	34.24	34.74
1000.00	21.30	7.00	*	*	37.00	*	*

REMARKS : 1. \* Undetectable

2. Emission level (dBμV/M) = Antenna Factor (dB/m) + Cable loss (dB) + Meter Reading (dBμV).

3. According to technical experiences, all spurious emission at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.

4. Mode : Wireless 802.11g Transmitting test.

5. For Antenna 2 (black).

6. The test data marked in gray background means the EUT emission data is located in the margin uncertainty range of emission limits.





**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 25 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH1 RX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2037.98	44.13	32.16	6.51	35.30	9.50	0.00	38.00	74	-36.00	P	1.00
2037.98	35.52	32.16	6.51	35.30	9.50	0.00	29.39	54	-24.61	A	1.00
4076.13	48.88	32.55	3.32	34.90	9.50	0.00	40.35	74	-33.65	P	1.00
4076.13	42.59	32.55	3.32	34.90	9.50	0.00	34.06	54	-19.94	A	1.00
6114.05	44.29	37.33	4.61	34.30	9.50	0.00	42.43	74	-31.57	P	1.00
6114.05	33.73	37.33	4.61	34.30	9.50	0.00	31.87	54	-22.13	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)..
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz..
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB..
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 26 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH1 RX				Measurement Distance at 1m					Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height	
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)	
2036.00	46.68	32.16	6.53	35.30	9.50	0.00	40.57	74	-33.43	P	1.00	
2036.00	36.82	32.16	6.53	35.30	9.50	0.00	30.71	54	-23.29	A	1.00	
4076.01	46.91	32.55	3.32	34.90	9.50	0.00	38.38	74	-35.62	P	1.00	
4076.01	40.06	32.55	3.32	34.90	9.50	0.00	31.53	54	-22.47	A	1.00	
6114.01	44.30	37.33	4.61	34.30	9.50	0.00	42.44	74	-31.56	P	1.00	
6114.01	33.39	37.33	4.61	34.30	9.50	0.00	31.53	54	-22.47	A	1.00	

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  
Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd.,ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 27 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH6 RX				Measurement Distance at 1m				Horizontal polarity			
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2062.99	45.31	32.14	6.32	35.30	9.50	0.00	38.97	74	-35.03	P	1.00
2062.99	37.74	32.14	6.32	35.30	9.50	0.00	31.40	54	-22.60	A	1.00
4125.97	47.38	32.52	3.33	34.90	9.50	0.00	38.83	74	-35.17	P	1.00
4125.97	45.16	32.52	3.33	34.90	9.50	0.00	36.61	54	-17.39	A	1.00
6189.54	43.75	37.48	4.69	34.30	9.50	0.00	42.12	74	-31.88	P	1.00
6189.54	33.46	37.48	4.69	34.30	9.50	0.00	31.83	54	-22.17	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  
Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 28 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH6 RX				Measurement Distance at 1m					Vertical polarity		
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist dB	Filter dB	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2062.90	47.45	32.14	6.32	35.30	9.50	0.00	41.11	74	-32.89	P	1.00
2062.90	36.97	32.14	6.32	35.30	9.50	0.00	30.63	54	-23.37	A	1.00
4125.98	47.15	32.52	3.33	34.90	9.50	0.00	38.60	74	-35.40	P	1.00
4125.98	40.88	32.52	3.33	34.90	9.50	0.00	32.33	54	-21.67	A	1.00
6188.74	44.41	37.48	4.69	34.30	9.50	0.00	42.78	74	-31.22	P	1.00
6188.74	33.46	37.48	4.69	34.30	9.50	0.00	31.83	54	-22.17	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  
Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 29 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH11 RX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2088.20	45.21	32.11	6.13	35.30	9.50	0.00	38.65	74	-35.35	P	1.00
2088.20	37.73	32.11	6.13	35.30	9.50	0.00	31.17	54	-22.83	A	1.00
4176.14	46.21	32.49	3.34	34.90	9.50	0.00	37.64	74	-36.36	P	1.00
4176.14	41.88	32.49	3.34	34.90	9.50	0.00	33.31	54	-20.69	A	1.00
6263.74	44.62	37.63	4.76	34.30	9.50	0.00	43.21	74	-30.79	P	1.00
6263.74	33.39	37.63	4.76	34.30	9.50	0.00	31.98	54	-22.02	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  
Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 1 (white).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 30 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH11 RX				Measurement Distance at 1m					Vertical polarity		
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2087.97	47.12	32.11	6.13	35.30	9.50	0.00	40.56	74	-33.44	P	1.00
2087.97	37.12	32.11	6.13	35.30	9.50	0.00	30.56	54	-23.44	A	1.00
4175.91	47.18	32.49	3.34	34.90	9.50	0.00	38.61	74	-35.39	P	1.00
4175.91	40.76	32.49	3.34	34.90	9.50	0.00	32.19	54	-21.81	A	1.00
6263.97	44.68	37.63	4.76	34.30	9.50	0.00	43.27	74	-30.73	P	1.00
6263.97	35.03	37.63	4.76	34.30	9.50	0.00	33.62	54	-20.38	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 1 (white).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 31 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH1 RX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2037.94	45.91	32.16	6.51	35.30	9.50	0.00	39.78	74	-34.22	P	1.00
2037.94	36.24	32.16	6.51	35.30	9.50	0.00	30.11	54	-23.89	A	1.00
4076.06	49.07	32.55	3.32	34.90	9.50	0.00	40.54	74	-33.46	P	1.00
4076.06	42.63	32.55	3.32	34.90	9.50	0.00	34.10	54	-19.90	A	1.00
6114.08	44.69	37.33	4.61	34.30	9.50	0.00	42.83	74	-31.17	P	1.00
6114.08	33.24	37.33	4.61	34.30	9.50	0.00	31.38	54	-22.62	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 1 (white).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 32 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH1 RX				Measurement Distance at 1m					Vertical polarity		
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist dB	Filter dB	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2037.96	45.15	32.16	6.51	35.30	9.50	0.00	39.02	74	-34.98	P	1.00
2037.96	35.67	32.16	6.51	35.30	9.50	0.00	29.54	54	-24.46	A	1.00
4075.98	49.26	32.55	3.32	34.90	9.50	0.00	40.73	74	-33.27	P	1.00
4075.98	42.88	32.55	3.32	34.90	9.50	0.00	34.35	54	-19.65	A	1.00
6113.95	43.28	37.33	4.61	34.30	9.50	0.00	41.42	74	-32.58	P	1.00
6113.95	33.57	37.33	4.61	34.30	9.50	0.00	31.71	54	-22.29	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 1 (white).





**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 33 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH6 RX				Measurement Distance at 1m				Horizontal polarity			
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2063.11	47.12	32.14	6.32	35.30	9.50	0.00	40.78	74	-33.22	P	1.00
2063.11	37.75	32.14	6.32	35.30	9.50	0.00	31.41	54	-22.59	A	1.00
4125.98	50.06	32.52	3.33	34.90	9.50	0.00	41.51	74	-32.49	P	1.00
4125.98	45.04	32.52	3.33	34.90	9.50	0.00	36.49	54	-17.51	A	1.00
6189.33	44.37	37.48	4.69	34.30	9.50	0.00	42.74	74	-31.26	P	1.00
6189.33	34.15	37.48	4.69	34.30	9.50	0.00	32.52	54	-21.48	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 1 (white).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 34 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH6 RX				Measurement Distance at 1m					Vertical polarity		
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2062.91	47.67	32.14	6.32	35.30	9.50	0.00	41.33	74	-32.67	P	1.00
2062.91	36.84	32.14	6.32	35.30	9.50	0.00	30.50	54	-23.50	A	1.00
4126.14	48.17	32.52	3.33	34.90	9.50	0.00	39.62	74	-34.38	P	1.00
4126.14	42.07	32.52	3.33	34.90	9.50	0.00	33.52	54	-20.48	A	1.00
6189.14	44.27	37.48	4.69	34.30	9.50	0.00	42.64	74	-31.36	P	1.00
6189.14	34.11	37.48	4.69	34.30	9.50	0.00	32.48	54	-21.52	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 1 (white).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 35 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH11 RX				Measurement Distance at 1m				Horizontal polarity			
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2087.90	46.88	32.11	6.13	35.30	9.50	0.00	40.32	74	-33.68	P	1.00
2087.90	37.21	32.11	6.13	35.30	9.50	0.00	30.65	54	-23.35	A	1.00
4176.03	48.05	32.49	3.34	34.90	9.50	0.00	39.48	74	-34.52	P	1.00
4176.03	41.65	32.49	3.34	34.90	9.50	0.00	33.08	54	-20.92	A	1.00
6264.03	45.21	37.63	4.76	34.30	9.50	0.00	43.80	74	-30.20	P	1.00
6264.03	34.22	37.63	4.76	34.30	9.50	0.00	32.81	54	-21.19	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 1 (white).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 36 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH11 RX				Measurement Distance at 1m					Vertical polarity		
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2088.02	46.90	32.11	6.13	35.30	9.50	0.00	40.34	74	-33.66	P	1.00
2088.02	37.44	32.11	6.13	35.30	9.50	0.00	30.88	54	-23.12	A	1.00
4176.06	48.15	32.49	3.34	34.90	9.50	0.00	39.58	74	-34.42	P	1.00
4176.06	41.37	32.49	3.34	34.90	9.50	0.00	32.80	54	-21.20	A	1.00
6264.07	44.39	37.63	4.76	34.30	9.50	0.00	42.98	74	-31.02	P	1.00
6264.07	33.49	37.63	4.76	34.30	9.50	0.00	32.08	54	-21.92	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 1 (white).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 37 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH1 RX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2038.12	46.46	32.16	6.51	35.30	9.50	0.00	40.33	74	-33.67	P	1.00
2038.12	36.57	32.16	6.51	35.30	9.50	0.00	30.44	54	-23.56	A	1.00
4075.92	47.58	32.55	3.32	34.90	9.50	0.00	39.05	74	-34.95	P	1.00
4075.92	38.92	32.55	3.32	34.90	9.50	0.00	30.39	54	-23.61	A	1.00
6113.93	44.62	37.33	4.61	34.30	9.50	0.00	42.76	74	-31.24	P	1.00
6113.93	33.16	37.33	4.61	34.30	9.50	0.00	31.30	54	-22.70	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 2 (black).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 38 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH1 RX				Measurement Distance at 1m					Vertical polarity		
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist dB	Filter dB	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2037.96	45.69	32.16	6.51	35.30	9.50	0.00	39.56	74	-34.44	P	1.00
2037.96	34.62	32.16	6.51	35.30	9.50	0.00	28.49	54	-25.51	A	1.00
4075.96	49.73	32.55	3.32	34.90	9.50	0.00	41.20	74	-32.80	P	1.00
4075.96	44.84	32.55	3.32	34.90	9.50	0.00	36.31	54	-17.69	A	1.00
6114.28	44.13	37.33	4.61	34.30	9.50	0.00	42.27	74	-31.73	P	1.00
6114.28	35.32	37.33	4.61	34.30	9.50	0.00	33.46	54	-20.54	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 2 (black).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 39 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH6 RX				Measurement Distance at 1m				Horizontal polarity			
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2062.86	48.11	32.14	6.32	35.30	9.50	0.00	41.77	74	-32.23	P	1.00
2062.86	39.18	32.14	6.32	35.30	9.50	0.00	32.84	54	-21.16	A	1.00
4125.88	48.32	32.52	3.33	34.90	9.50	0.00	39.77	74	-34.23	P	1.00
4125.88	41.77	32.52	3.33	34.90	9.50	0.00	33.22	54	-20.78	A	1.00
6191.35	44.36	37.48	4.69	34.30	9.50	0.00	42.73	74	-31.27	P	1.00
6191.35	33.09	37.48	4.69	34.30	9.50	0.00	31.46	54	-22.54	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 2 (black).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 40 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH6 RX				Measurement Distance at 1m					Vertical polarity		
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2062.86	47.65	32.14	6.32	35.30	9.50	0.00	41.31	74	-32.69	P	1.00
2062.86	36.65	32.14	6.32	35.30	9.50	0.00	30.31	54	-23.69	A	1.00
4126.06	50.19	32.52	3.33	34.90	9.50	0.00	41.64	74	-32.36	P	1.00
4126.06	45.74	32.52	3.33	34.90	9.50	0.00	37.19	54	-16.81	A	1.00
6189.09	43.61	37.48	4.69	34.30	9.50	0.00	41.98	74	-32.02	P	1.00
6189.09	33.18	37.48	4.69	34.30	9.50	0.00	31.55	54	-22.45	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 2 (black).





**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 41 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH11 RX				Measurement Distance at 1m				Horizontal polarity			
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2087.99	47.69	32.11	6.13	35.30	9.50	0.00	41.13	74	-32.87	P	1.00
2087.99	38.56	32.11	6.13	35.30	9.50	0.00	32.00	54	-22.00	A	1.00
4175.99	49.38	32.49	3.34	34.90	9.50	0.00	40.81	74	-33.19	P	1.00
4175.99	43.45	32.49	3.34	34.90	9.50	0.00	34.88	54	-19.12	A	1.00
6263.88	44.46	37.63	4.76	34.30	9.50	0.00	43.05	74	-30.95	P	1.00
6263.88	33.06	37.63	4.76	34.30	9.50	0.00	31.65	54	-22.35	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 2 (black).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 42 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH11 RX				Measurement Distance at 1m					Vertical polarity		
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2087.97	47.06	32.11	6.13	35.30	9.50	0.00	40.50	74	-33.50	P	1.00
2087.97	37.00	32.11	6.13	35.30	9.50	0.00	30.44	54	-23.56	A	1.00
4175.96	48.64	32.49	3.34	34.90	9.50	0.00	40.07	74	-33.93	P	1.00
4175.96	42.82	32.49	3.34	34.90	9.50	0.00	34.25	54	-19.75	A	1.00
6263.62	44.34	37.63	4.76	34.30	9.50	0.00	42.93	74	-31.07	P	1.00
6263.62	33.08	37.63	4.76	34.30	9.50	0.00	31.67	54	-22.33	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11b mode at 11Mbps.
8. For Antenna 2 (black).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 43 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH1 RX				Measurement Distance at 1m				Horizontal polarity			
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist dB	Filter dB	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2038.11	46.51	32.16	6.51	35.30	9.50	0.00	40.38	74	-33.62	P	1.00
2038.11	35.42	32.16	6.51	35.30	9.50	0.00	29.29	54	-24.71	A	1.00
4076.04	47.34	32.55	3.32	34.90	9.50	0.00	38.81	74	-35.19	P	1.00
4076.04	37.42	32.55	3.32	34.90	9.50	0.00	28.89	54	-25.11	A	1.00
6113.65	44.47	37.33	4.61	34.30	9.50	0.00	42.61	74	-31.39	P	1.00
6113.65	33.34	37.33	4.61	34.30	9.50	0.00	31.48	54	-22.52	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  
Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 2 (black).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 44 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH1 RX				Measurement Distance at 1m					Vertical polarity		
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2037.97	45.04	32.16	6.51	35.30	9.50	0.00	38.91	74	-35.09	P	1.00
2037.97	34.72	32.16	6.51	35.30	9.50	0.00	28.59	54	-25.41	A	1.00
4076.12	50.36	32.55	3.32	34.90	9.50	0.00	41.83	74	-32.17	P	1.00
4076.12	44.57	32.55	3.32	34.90	9.50	0.00	36.04	54	-17.96	A	1.00
6113.96	44.34	37.33	4.61	34.30	9.50	0.00	42.48	74	-31.52	P	1.00
6113.96	33.54	37.33	4.61	34.30	9.50	0.00	31.68	54	-22.32	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 2 (black).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 45 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH6 RX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2063.39	48.39	32.14	6.32	35.30	9.50	0.00	42.04	74	-31.96	P	1.00
2063.39	38.82	32.14	6.32	35.30	9.50	0.00	32.47	54	-21.53	A	1.00
4125.95	49.18	32.52	3.33	34.90	9.50	0.00	40.63	74	-33.37	P	1.00
4125.95	42.39	32.52	3.33	34.90	9.50	0.00	33.84	54	-20.16	A	1.00
6188.93	44.54	37.48	4.69	34.30	9.50	0.00	42.91	74	-31.09	P	1.00
6188.93	33.28	37.48	4.69	34.30	9.50	0.00	31.65	54	-22.35	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  
Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 2 (black).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 46 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH6 RX				Measurement Distance at 1m					Vertical polarity		
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2063.15	47.34	32.14	6.32	35.30	9.50	0.00	41.00	74	-33.00	P	1.00
2063.15	36.89	32.14	6.32	35.30	9.50	0.00	30.55	54	-23.45	A	1.00
4126.00	50.19	32.52	3.33	34.90	9.50	0.00	41.64	74	-32.36	P	1.00
4126.00	45.69	32.52	3.33	34.90	9.50	0.00	37.14	54	-16.86	A	1.00
6188.85	45.06	37.48	4.69	34.30	9.50	0.00	43.43	74	-30.57	P	1.00
6188.85	33.40	37.48	4.69	34.30	9.50	0.00	31.77	54	-22.23	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 2 (black).



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 47 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH11 RX				Measurement Distance at 1m				Horizontal polarity			
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist (dB)	Filter (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2088.01	47.78	32.11	6.13	35.30	9.50	0.00	41.22	74	-32.78	P	1.00
2088.01	38.54	32.11	6.13	35.30	9.50	0.00	31.98	54	-22.02	A	1.00
4175.86	49.12	32.49	3.34	34.90	9.50	0.00	40.55	74	-33.45	P	1.00
4175.86	42.98	32.49	3.34	34.90	9.50	0.00	34.41	54	-19.59	A	1.00
6263.74	44.60	37.63	4.76	34.30	9.50	0.00	43.19	74	-30.81	P	1.00
6263.74	33.20	37.63	4.76	34.30	9.50	0.00	31.79	54	-22.21	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}.$$
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 2 (black).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 48 of 99

Test Requirement: 15.109 ,15.209

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH11 RX				Measurement Distance at 1m					Vertical polarity		
Freq. (MHz)	Reading (dBuV)	AF (dBuV)	Cable (dB)	Pre-amp (dB)	Dist dB	Filter dB	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Mark (P/Q/A)	Height (Meter)
2088.10	47.69	32.11	6.13	35.30	9.50	0.00	41.13	74	-32.87	P	1.00
2088.10	37.60	32.11	6.13	35.30	9.50	0.00	31.04	54	-22.96	A	1.00
4175.98	49.69	32.49	3.34	34.90	9.50	0.00	41.12	74	-32.88	P	1.00
4175.98	43.74	32.49	3.34	34.90	9.50	0.00	35.17	54	-18.83	A	1.00
6263.91	44.08	37.63	4.76	34.30	9.50	0.00	42.67	74	-31.33	P	1.00
6263.91	33.11	37.63	4.76	34.30	9.50	0.00	31.70	54	-22.30	A	1.00

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
2. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz.
3. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
4. The result basic equation calculation as follow :  
Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.
5. The test limit is 3M limit.
6. The other emission levels were very low against the limit.
7. For 802.11g mode at 6Mbps.
8. For Antenna 2 (black).





# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 49 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH1 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
* 2385.94	23.80	31.81	3.87	0.00	9.50	0.00	49.98	74	-24.02	P	1.00
* 2385.94	11.60	31.81	3.87	0.00	9.50	0.00	37.78	54	-16.22	A	1.00
2413.05	82.55	31.79	3.66	0.00	9.50	0.00	108.50	Fundamental Frequency		P	1.00
2413.05	75.78	31.79	3.66	0.00	9.50	0.00	101.73			A	1.00
* 4824.01	43.55	34.44	2.82	35.16	9.50	2.00	38.15	74	-35.85	P	1.00
* 4824.01	32.47	34.44	2.82	35.16	9.50	2.00	27.07	54	-26.93	A	1.00
7240.10	51.68	39.80	4.80	35.65	9.50	2.00	53.13	74	-20.87	P	1.00
7240.10	41.62	39.80	4.80	35.65	9.50	2.00	43.07	54	-10.93	A	1.00
9648.90	46.30	38.54	5.90	36.44	9.50	0.61	45.41	74	-28.59	P	1.00
9648.90	34.54	38.54	5.90	36.44	9.50	0.61	33.65	54	-20.35	A	1.00
* 12065.25	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
* 14478.30	-----	-----	-----	-----	0.00	0.67	-----	-----	-----	-----	1.00
16891.35	-----	-----	-----	-----	0.00	0.43	-----	-----	-----	-----	1.00
* 19304.40	-----	-----	-----	-----	0.00	1.97	-----	-----	-----	-----	1.00
21717.45	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00
24130.50	-----	-----	-----	-----	0.00	2.89	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 50 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH1 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
* 2385.94	31.50	31.81	3.87	0.00	9.50	0.00	57.68	74	-16.32	P	1.00
* 2385.94	19.20	31.81	3.87	0.00	9.50	0.00	45.38	54	-8.62	A	1.00
2413.01	88.74	31.79	3.66	0.00	9.50	0.00	114.69	Fundamental Frequency		P	1.00
2413.01	82.17	31.79	3.66	0.00	9.50	0.00	108.12			A	1.00
* 4823.79	42.35	34.44	2.82	35.16	9.50	2.00	36.95	74	-37.05	P	1.00
* 4823.79	33.46	34.44	2.82	35.16	9.50	2.00	28.06	54	-25.94	A	1.00
7235.72	54.05	39.81	4.79	35.65	9.50	2.00	55.50	74	-18.50	P	1.00
7235.72	45.67	39.81	4.79	35.65	9.50	2.00	47.12	54	-6.88	A	1.00
9647.85	40.18	38.54	5.90	36.44	9.50	0.61	39.29	74	-34.71	P	1.00
9647.85	32.14	38.54	5.90	36.44	9.50	0.61	31.25	54	-22.75	A	1.00
* 12065.05	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
* 14478.06	-----	-----	-----	-----	0.00	0.67	-----	-----	-----	-----	1.00
16891.07	-----	-----	-----	-----	0.00	0.43	-----	-----	-----	-----	1.00
* 19304.08	-----	-----	-----	-----	0.00	1.96	-----	-----	-----	-----	1.00
21717.09	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00
24130.10	-----	-----	-----	-----	0.00	2.89	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$ ,  $Margin = Level - Limit$ .
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 51 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH6 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2438.05	84.02	31.76	3.47	0.00	9.50	0.00	109.75	Fundamental Frequency		P	1.00
2438.05	77.44	31.76	3.47	0.00	9.50	0.00	103.17			A	1.00
* 4879.31	46.16	34.80	2.72	35.20	9.50	1.78	40.76	74	-33.24	P	1.00
* 4879.31	35.04	34.80	2.72	35.20	9.50	1.78	29.64	54	-24.36	A	1.00
* 7310.09	51.58	39.78	4.82	35.64	9.50	2.00	53.04	74	-20.96	P	1.00
* 7310.09	42.44	39.78	4.82	35.64	9.50	2.00	43.90	54	-10.10	A	1.00
9748.90	45.37	38.53	5.90	36.60	9.50	0.55	44.25	74	-29.75	P	1.00
9748.90	37.28	38.53	5.90	36.60	9.50	0.55	36.16	54	-17.84	A	1.00
* 12190.25	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14628.30	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
17066.35	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19504.40	-----	-----	-----	-----	0.00	2.20	-----	-----	-----	-----	1.00
21942.45	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24380.50	-----	-----	-----	-----	0.00	2.49	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$ ,  $Margin = Level - Limit$ .
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 52 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH6 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2438.05	89.97	31.76	3.47	0.00	9.50	0.00	115.70	Fundamental Frequency		P	1.00
2438.05	83.44	31.76	3.47	0.00	9.50	0.00	109.17			A	1.00
* 4873.86	52.49	34.77	2.73	35.20	9.50	1.80	47.09	74	-26.91	P	1.00
* 4873.86	41.47	34.77	2.73	35.20	9.50	1.80	36.07	54	-17.93	A	1.00
* 7308.84	54.24	39.78	4.82	35.64	9.50	2.00	55.70	74	-18.30	P	1.00
* 7308.84	45.81	39.78	4.82	35.64	9.50	2.00	47.27	54	-6.73	A	1.00
9747.69	46.00	38.53	5.90	36.60	9.50	0.55	44.88	74	-29.12	P	1.00
9747.69	34.64	38.53	5.90	36.60	9.50	0.55	33.52	54	-20.48	A	1.00
* 12190.25	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14628.30	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
17066.35	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19504.40	-----	-----	-----	-----	0.00	2.20	-----	-----	-----	-----	1.00
21942.45	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24380.50	-----	-----	-----	-----	0.00	2.49	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$ ,  $Margin = Level - Limit$ .
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 53 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH11 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2462.90	83.77	31.74	3.28	0.00	9.50	0.00	109.29	Fundamental Frequency		P	1.00
2462.90	77.02	31.74	3.28	0.00	9.50	0.00	102.54			A	1.00
* 2488.66	29.40	31.71	3.09	0.00	9.50	0.00	54.70	74	-19.30	P	1.00
* 2488.66	16.50	31.71	3.09	0.00	9.50	0.00	41.80	54	-12.20	A	1.00
* 4923.89	45.38	35.10	2.64	35.24	9.50	1.60	39.98	74	-34.02	P	1.00
* 4923.89	34.73	35.10	2.64	35.24	9.50	1.60	29.33	54	-24.67	A	1.00
* 7389.60	50.59	39.74	4.86	35.62	9.50	2.00	52.07	74	-21.93	P	1.00
* 7389.60	40.85	39.74	4.86	35.62	9.50	2.00	42.33	54	-11.67	A	1.00
9847.69	46.83	38.52	5.90	36.76	9.50	0.49	45.48	74	-28.52	P	1.00
9847.69	37.99	38.52	5.90	36.76	9.50	0.49	36.64	54	-17.36	A	1.00
* 12314.50	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14777.40	-----	-----	-----	-----	0.00	0.48	-----	-----	-----	-----	1.00
17240.30	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19703.20	-----	-----	-----	-----	0.00	2.40	-----	-----	-----	-----	1.00
* 22166.10	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24629.00	-----	-----	-----	-----	0.00	2.12	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 54 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH11 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2463.05	89.80	31.74	3.28	0.00	9.50	0.00	115.32	Fundamental Frequency		P	1.00
2463.05	83.20	31.74	3.28	0.00	9.50	0.00	108.72			A	1.00
* 2488.66	34.20	31.71	3.09	0.00	9.50	0.00	59.50	74	-14.50	P	1.00
* 2488.66	20.70	31.71	3.09	0.00	9.50	0.00	46.00	54	-8.00	A	1.00
* 4923.78	42.35	35.10	2.64	35.24	9.50	1.60	36.95	74	-37.05	P	1.00
* 4923.78	32.14	35.10	2.64	35.24	9.50	1.60	26.74	54	-27.26	A	1.00
* 7389.80	55.50	39.74	4.86	35.62	9.50	2.00	56.98	74	-17.02	P	1.00
* 7389.80	46.06	39.74	4.86	35.62	9.50	2.00	47.54	54	-6.46	A	1.00
9847.81	41.37	38.52	5.90	36.76	9.50	0.49	40.02	74	-33.98	P	1.00
9847.81	28.94	38.52	5.90	36.76	9.50	0.49	27.59	54	-26.41	A	1.00
* 12315.25	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14778.30	-----	-----	-----	-----	0.00	0.48	-----	-----	-----	-----	1.00
17241.35	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19704.40	-----	-----	-----	-----	0.00	2.40	-----	-----	-----	-----	1.00
* 22167.45	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24630.50	-----	-----	-----	-----	0.00	2.12	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark "---" means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark "\*" means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 55 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH1 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
* 2389.13	29.30	31.81	3.84	0.00	9.50	0.00	55.45	74	-18.55	P	1.00
* 2389.13	12.10	31.81	3.84	0.00	9.50	0.00	38.25	54	-15.75	A	1.00
2415.17	79.65	31.78	3.64	0.00	9.50	0.00	105.58	Fundamental Frequency		P	1.00
2415.17	70.07	31.78	3.64	0.00	9.50	0.00	96.00			A	1.00
* 4822.67	45.07	34.43	2.82	35.16	9.50	2.01	39.67	74	-34.33	P	1.00
* 4822.67	32.56	34.43	2.82	35.16	9.50	2.01	27.16	54	-26.84	A	1.00
7235.47	48.09	39.81	4.79	35.65	9.50	2.00	49.54	74	-24.46	P	1.00
7235.47	35.90	39.81	4.79	35.65	9.50	2.00	37.35	54	-16.65	A	1.00
9647.36	44.13	38.54	5.90	36.44	9.50	0.61	43.24	74	-30.76	P	1.00
9647.36	34.76	38.54	5.90	36.44	9.50	0.61	33.87	54	-20.13	A	1.00
* 12075.85	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
* 14491.02	-----	-----	-----	-----	0.00	0.69	-----	-----	-----	-----	1.00
16906.19	-----	-----	-----	-----	0.00	0.44	-----	-----	-----	-----	1.00
* 19321.36	-----	-----	-----	-----	0.00	1.99	-----	-----	-----	-----	1.00
21736.53	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00
24151.70	-----	-----	-----	-----	0.00	2.86	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$ ,  $Margin = Level - Limit$ .
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 1 (white).





# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 56 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH1 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
* 2389.13	37.10	31.81	3.84	0.00	9.50	0.00	63.25	74	-10.75	P	1.00
* 2389.13	19.10	31.81	3.84	0.00	9.50	0.00	45.25	54	-8.75	A	1.00
2415.17	84.05	31.78	3.64	0.00	9.50	0.00	109.98	Fundamental Frequency		P	1.00
2415.17	74.69	31.78	3.64	0.00	9.50	0.00	100.62			A	1.00
* 4834.97	46.01	34.51	2.80	35.17	9.50	1.96	40.61	74	-33.39	P	1.00
* 4834.97	33.92	34.51	2.80	35.17	9.50	1.96	28.52	54	-25.48	A	1.00
7232.67	52.00	39.81	4.79	35.65	9.50	2.00	53.45	74	-20.55	P	1.00
7232.67	39.19	39.81	4.79	35.65	9.50	2.00	40.64	54	-13.36	A	1.00
9647.85	46.91	38.54	5.90	36.44	9.50	0.61	46.02	74	-27.98	P	1.00
9647.85	34.63	38.54	5.90	36.44	9.50	0.61	33.74	54	-20.26	A	1.00
* 12075.85	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
* 14491.02	-----	-----	-----	-----	0.00	0.69	-----	-----	-----	-----	1.00
16906.19	-----	-----	-----	-----	0.00	0.44	-----	-----	-----	-----	1.00
* 19321.36	-----	-----	-----	-----	0.00	1.99	-----	-----	-----	-----	1.00
21736.53	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00
24151.70	-----	-----	-----	-----	0.00	2.86	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$ ,  $Margin = Level - Limit$ .
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 1 (white).





**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 57 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH6 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2440.24	81.31	31.76	3.45	0.00	9.50	0.00	107.02	Fundamental Frequency		P	1.00
2440.24	71.96	31.76	3.45	0.00	9.50	0.00	97.67			A	1.00
* 4872.56	46.09	34.76	2.73	35.20	9.50	1.81	40.69	74	-33.31	P	1.00
* 4872.56	33.21	34.76	2.73	35.20	9.50	1.81	27.81	54	-26.19	A	1.00
* 7311.77	49.85	39.78	4.82	35.64	9.50	2.00	51.31	74	-22.69	P	1.00
* 7311.77	37.07	39.78	4.82	35.64	9.50	2.00	38.53	54	-15.47	A	1.00
9747.61	46.93	38.53	5.90	36.60	9.50	0.55	45.81	74	-28.19	P	1.00
9747.61	34.66	38.53	5.90	36.60	9.50	0.55	33.54	54	-20.46	A	1.00
* 12201.20	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14641.44	-----	-----	-----	-----	0.00	0.59	-----	-----	-----	-----	1.00
17081.68	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19521.92	-----	-----	-----	-----	0.00	2.22	-----	-----	-----	-----	1.00
21962.16	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24402.40	-----	-----	-----	-----	0.00	2.46	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 58 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH6 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2440.17	85.46	31.76	3.45	0.00	9.50	0.00	111.17	Fundamental Frequency		P	1.00
2440.17	76.22	31.76	3.45	0.00	9.50	0.00	101.93			A	1.00
* 4869.54	49.47	34.74	2.73	35.20	9.50	1.82	44.07	74	-29.93	P	1.00
* 4869.54	36.78	34.74	2.73	35.20	9.50	1.82	31.38	54	-22.62	A	1.00
* 7310.35	54.23	39.78	4.82	35.64	9.50	2.00	55.69	74	-18.31	P	1.00
* 7310.35	39.27	39.78	4.82	35.64	9.50	2.00	40.73	54	-13.27	A	1.00
9747.32	44.66	38.53	5.90	36.60	9.50	0.55	43.54	74	-30.46	P	1.00
9747.32	34.41	38.53	5.90	36.60	9.50	0.55	33.29	54	-20.71	A	1.00
* 12200.85	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14641.02	-----	-----	-----	-----	0.00	0.59	-----	-----	-----	-----	1.00
17081.19	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19521.36	-----	-----	-----	-----	0.00	2.22	-----	-----	-----	-----	1.00
21961.53	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24401.70	-----	-----	-----	-----	0.00	2.46	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$ ,  $Margin = Level - Limit$ .
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 59 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH11 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2463.81	80.75	31.74	3.28	0.00	9.50	0.00	106.26	Fundamental Frequency		P	1.00
2463.81	71.19	31.74	3.28	0.00	9.50	0.00	96.70			A	1.00
* 2483.65	32.90	31.72	3.12	0.00	9.50	0.00	58.24	74	-15.76	P	1.00
* 2483.65	14.90	31.72	3.12	0.00	9.50	0.00	40.24	54	-13.76	A	1.00
* 4926.19	46.81	35.11	2.63	35.24	9.50	1.60	41.41	74	-32.59	P	1.00
* 4926.19	34.16	35.11	2.63	35.24	9.50	1.60	28.76	54	-25.24	A	1.00
* 7381.54	48.00	39.75	4.85	35.62	9.50	2.00	49.48	74	-24.52	P	1.00
* 7381.54	35.62	39.75	4.85	35.62	9.50	2.00	37.10	54	-16.90	A	1.00
9847.68	44.88	38.52	5.90	36.76	9.50	0.49	43.53	74	-30.47	P	1.00
9847.68	34.54	38.52	5.90	36.76	9.50	0.49	33.19	54	-20.81	A	1.00
* 12319.05	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14782.86	-----	-----	-----	-----	0.00	0.47	-----	-----	-----	-----	1.00
17246.67	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19710.48	-----	-----	-----	-----	0.00	2.41	-----	-----	-----	-----	1.00
* 22174.29	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24638.10	-----	-----	-----	-----	0.00	2.11	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 60 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/15
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	20.3°C , 36%

CH11 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2463.81	86.33	31.74	3.28	0.00	9.50	0.00	111.84	Fundamental Frequency		P	1.00
2463.81	76.89	31.74	3.28	0.00	9.50	0.00	102.40			A	1.00
* 2483.65	36.00	31.72	3.12	0.00	9.50	0.00	61.34	74	-12.66	P	1.00
* 2483.65	17.50	31.72	3.12	0.00	9.50	0.00	42.84	54	-11.16	A	1.00
* 4917.27	49.81	35.05	2.65	35.23	9.50	1.63	44.41	74	-29.59	P	1.00
* 4917.27	36.02	35.05	2.65	35.23	9.50	1.63	30.62	54	-23.38	A	1.00
* 7392.28	51.73	39.74	4.86	35.62	9.50	2.00	53.21	74	-20.79	P	1.00
* 7392.28	38.86	39.74	4.86	35.62	9.50	2.00	40.34	54	-13.66	A	1.00
9847.81	47.02	38.52	5.90	36.76	9.50	0.49	45.67	74	-28.33	P	1.00
9847.81	34.18	38.52	5.90	36.76	9.50	0.49	32.83	54	-21.17	A	1.00
* 12319.05	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14782.86	-----	-----	-----	-----	0.00	0.47	-----	-----	-----	-----	1.00
17246.67	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19710.48	-----	-----	-----	-----	0.00	2.41	-----	-----	-----	-----	1.00
* 22174.29	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24638.10	-----	-----	-----	-----	0.00	2.11	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 1 (white).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 61 of 99

Test Requirement: 15.205  
 The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH1 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
* 2386.19	33.72	31.81	3.86	0.00	9.50	0.00	59.90	74	-14.10	P	1.00
* 2386.19	22.01	31.81	3.86	0.00	9.50	0.00	48.19	54	-5.81	A	1.00
2413.00	90.54	31.79	3.66	0.00	9.50	0.00	116.49	Fundamental Frequency		P	1.00
2413.00	83.94	31.79	3.66	0.00	9.50	0.00	109.89			A	1.00
* 4823.94	45.02	34.44	2.82	35.16	9.50	2.00	39.62	74	-34.38	P	1.00
* 4823.94	33.19	34.44	2.82	35.16	9.50	2.00	27.79	54	-26.21	A	1.00
7236.45	46.63	39.81	4.79	35.65	9.50	2.00	48.08	74	-25.92	P	1.00
7236.45	36.12	39.81	4.79	35.65	9.50	2.00	37.57	54	-16.43	A	1.00
9647.14	45.58	38.54	5.90	36.44	9.50	0.61	44.69	74	-29.31	P	1.00
9647.14	35.04	38.54	5.90	36.44	9.50	0.61	34.15	54	-19.85	A	1.00
* 12065.00	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
* 14478.00	-----	-----	-----	-----	0.00	0.67	-----	-----	-----	-----	1.00
16891.00	-----	-----	-----	-----	0.00	0.43	-----	-----	-----	-----	1.00
* 19304.00	-----	-----	-----	-----	0.00	1.96	-----	-----	-----	-----	1.00
21717.00	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00
24130.00	-----	-----	-----	-----	0.00	2.89	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 2 (black).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 62 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH1 TX				Measurement Distance at 1m					Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height	
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)	
* 2386.64	39.20	31.81	3.86	0.00	9.50	0.00	65.37	74	-8.63	P	1.00	
* 2386.64	26.80	31.81	3.86	0.00	9.50	0.00	52.97	54	-1.03	A	1.00	
2413.01	94.16	31.79	3.66	0.00	9.50	0.00	120.11	Fundamental Frequency		P	1.00	
2413.01	87.40	31.79	3.66	0.00	9.50	0.00	113.35			A	1.00	
* 4824.30	46.68	34.44	2.82	35.16	9.50	2.00	41.28	74	-32.72	P	1.00	
* 4824.30	34.19	34.44	2.82	35.16	9.50	2.00	28.79	54	-25.21	A	1.00	
7236.70	53.31	39.81	4.79	35.65	9.50	2.00	54.76	74	-19.24	P	1.00	
7236.70	43.16	39.81	4.79	35.65	9.50	2.00	44.61	54	-9.39	A	1.00	
9645.41	47.46	38.54	5.90	36.43	9.50	0.61	46.58	74	-27.42	P	1.00	
9645.41	35.04	38.54	5.90	36.43	9.50	0.61	34.16	54	-19.84	A	1.00	
* 12065.05	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00	
* 14478.06	-----	-----	-----	-----	0.00	0.67	-----	-----	-----	-----	1.00	
16891.07	-----	-----	-----	-----	0.00	0.43	-----	-----	-----	-----	1.00	
* 19304.08	-----	-----	-----	-----	0.00	1.96	-----	-----	-----	-----	1.00	
21717.09	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00	
24130.10	-----	-----	-----	-----	0.00	2.89	-----	-----	-----	-----	1.00	

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 2 (black).
- The test data marked in gray background means the EUT emission data is located in the margin uncertainty range of emission limits.



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 63 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH6 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2438.01	91.33	31.76	3.47	0.00	9.50	0.00	117.06	Fundamental Frequency		P	1.00
2438.01	84.58	31.76	3.47	0.00	9.50	0.00	110.31			A	1.00
* 4873.14	44.16	34.76	2.73	35.20	9.50	1.81	38.76	74	-35.24	P	1.00
* 4873.14	32.83	34.76	2.73	35.20	9.50	1.81	27.43	54	-26.57	A	1.00
* 7310.24	47.42	39.78	4.82	35.64	9.50	2.00	48.88	74	-25.12	P	1.00
* 7310.24	36.22	39.78	4.82	35.64	9.50	2.00	37.68	54	-16.32	A	1.00
9745.74	46.27	38.53	5.90	36.59	9.50	0.55	45.15	74	-28.85	P	1.00
9745.74	35.21	38.53	5.90	36.59	9.50	0.55	34.09	54	-19.91	A	1.00
* 12190.05	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14628.06	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
17066.07	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19504.08	-----	-----	-----	-----	0.00	2.20	-----	-----	-----	-----	1.00
21942.09	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24380.10	-----	-----	-----	-----	0.00	2.49	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$ ,  $Margin = Level - Limit$ .
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 2 (black).





**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 64 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH6 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2437.95	94.77	31.76	3.47	0.00	9.50	0.00	120.50	Fundamental Frequency		P	1.00
2437.95	87.99	31.76	3.47	0.00	9.50	0.00	113.72			A	1.00
* 4868.33	45.94	34.73	2.74	35.19	9.50	1.83	40.54	74	-33.46	P	1.00
* 4868.33	34.12	34.73	2.74	35.19	9.50	1.83	28.72	54	-25.28	A	1.00
* 7308.79	54.71	39.78	4.82	35.64	9.50	2.00	56.17	74	-17.83	P	1.00
* 7308.79	45.36	39.78	4.82	35.64	9.50	2.00	46.82	54	-7.18	A	1.00
9748.05	45.57	38.53	5.90	36.60	9.50	0.55	44.45	74	-29.55	P	1.00
9748.05	35.11	38.53	5.90	36.60	9.50	0.55	33.99	54	-20.01	A	1.00
* 12189.75	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14627.70	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
17065.65	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19503.60	-----	-----	-----	-----	0.00	2.20	-----	-----	-----	-----	1.00
21941.55	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24379.50	-----	-----	-----	-----	0.00	2.49	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 2 (black).





# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 65 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH11 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2461.94	91.00	31.74	3.29	0.00	9.50	0.00	116.53	Fundamental Frequency		P	1.00
2461.94	84.46	31.74	3.29	0.00	9.50	0.00	109.99			A	1.00
* 2483.95	34.23	31.72	3.12	0.00	9.50	0.00	59.57	74	-14.43	P	1.00
* 2483.95	21.40	31.72	3.12	0.00	9.50	0.00	46.74	54	-7.26	A	1.00
* 4923.24	44.69	35.09	2.64	35.24	9.50	1.61	39.29	74	-34.71	P	1.00
* 4923.24	32.65	35.09	2.64	35.24	9.50	1.61	27.25	54	-26.75	A	1.00
* 7381.94	47.24	39.75	4.85	35.62	9.50	2.00	48.72	74	-25.28	P	1.00
* 7381.94	36.54	39.75	4.85	35.62	9.50	2.00	38.02	54	-15.98	A	1.00
9848.65	46.60	38.52	5.90	36.76	9.50	0.49	45.25	74	-28.75	P	1.00
9848.65	35.37	38.52	5.90	36.76	9.50	0.49	34.02	54	-19.98	A	1.00
* 12309.70	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14771.64	-----	-----	-----	-----	0.00	0.48	-----	-----	-----	-----	1.00
17233.58	-----	-----	-----	-----	0.00	0.59	-----	-----	-----	-----	1.00
* 19695.52	-----	-----	-----	-----	0.00	2.40	-----	-----	-----	-----	1.00
* 22157.46	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24619.40	-----	-----	-----	-----	0.00	2.13	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$ , Margin = Level - Limit.
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 2 (black).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 66 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH11 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2462.05	94.22	31.74	3.29	0.00	9.50	0.00	119.75	Fundamental Frequency		P	1.00
2462.05	87.44	31.74	3.29	0.00	9.50	0.00	112.97			A	1.00
* 2483.75	39.11	31.72	3.12	0.00	9.50	0.00	64.45	74	-9.55	P	1.00
* 2483.75	25.75	31.72	3.12	0.00	9.50	0.00	51.09	54	-2.91	A	1.00
* 4923.44	45.70	35.09	2.64	35.24	9.50	1.61	40.30	74	-33.70	P	1.00
* 4923.44	33.72	35.09	2.64	35.24	9.50	1.61	28.32	54	-25.68	A	1.00
* 7382.44	54.71	39.75	4.85	35.62	9.50	2.00	56.19	74	-17.81	P	1.00
* 7382.44	44.37	39.75	4.85	35.62	9.50	2.00	45.85	54	-8.15	A	1.00
9847.94	46.84	38.52	5.90	36.76	9.50	0.49	45.49	74	-28.51	P	1.00
9847.94	35.29	38.52	5.90	36.76	9.50	0.49	33.94	54	-20.06	A	1.00
* 12310.25	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14772.30	-----	-----	-----	-----	0.00	0.48	-----	-----	-----	-----	1.00
17234.35	-----	-----	-----	-----	0.00	0.59	-----	-----	-----	-----	1.00
* 19696.40	-----	-----	-----	-----	0.00	2.40	-----	-----	-----	-----	1.00
* 22158.45	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24620.50	-----	-----	-----	-----	0.00	2.13	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11b mode at 11Mbps.
- For Antenna 2 (black).



## Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 67 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH1 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
* 2389.14	38.30	31.81	3.84	0.00	9.50	0.00	64.45	74	-9.55	P	1.00
* 2389.14	21.00	31.81	3.84	0.00	9.50	0.00	47.15	54	-6.85	A	1.00
2415.25	85.19	31.78	3.64	0.00	9.50	0.00	111.12	Fundamental Frequency		P	1.00
2415.25	77.47	31.78	3.64	0.00	9.50	0.00	103.40			A	1.00
* 4823.84	44.39	34.44	2.82	35.16	9.50	2.00	38.99	74	-35.01	P	1.00
* 4823.84	33.14	34.44	2.82	35.16	9.50	2.00	27.74	54	-26.26	A	1.00
7237.05	46.39	39.81	4.79	35.65	9.50	2.00	47.84	74	-26.16	P	1.00
7237.05	34.46	39.81	4.79	35.65	9.50	2.00	35.91	54	-18.09	A	1.00
9648.82	46.55	38.54	5.90	36.44	9.50	0.61	45.66	74	-28.34	P	1.00
9648.82	34.89	38.54	5.90	36.44	9.50	0.61	34.00	54	-20.00	A	1.00
* 12076.25	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
* 14491.50	-----	-----	-----	-----	0.00	0.69	-----	-----	-----	-----	1.00
16906.75	-----	-----	-----	-----	0.00	0.44	-----	-----	-----	-----	1.00
* 19322.00	-----	-----	-----	-----	0.00	1.99	-----	-----	-----	-----	1.00
21737.25	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00
24152.50	-----	-----	-----	-----	0.00	2.86	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$ ,  $Margin = Level - Limit$ .
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 2 (black).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., Chu Tung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL: 886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 68 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH1 TX				Measurement Distance at 1m					Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height	
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)	
* 2389.04	42.70	31.81	3.84	0.00	9.50	0.00	68.85	74	-5.15	P	1.00	
* 2389.04	25.20	31.81	3.84	0.00	9.50	0.00	51.35	54	-2.65	A	1.00	
2415.05	89.39	31.78	3.65	0.00	9.50	0.00	115.32	Fundamental Frequency		P	1.00	
2415.05	81.50	31.78	3.65	0.00	9.50	0.00	107.43			A	1.00	
* 4823.94	45.26	34.44	2.82	35.16	9.50	2.00	39.86	74	-34.14	P	1.00	
* 4823.94	33.24	34.44	2.82	35.16	9.50	2.00	27.84	54	-26.16	A	1.00	
7227.48	49.62	39.81	4.79	35.65	9.50	2.00	51.07	74	-22.93	P	1.00	
7227.48	36.56	39.81	4.79	35.65	9.50	2.00	38.01	54	-15.99	A	1.00	
9649.37	45.52	38.54	5.90	36.44	9.50	0.61	44.63	74	-29.37	P	1.00	
9649.37	34.72	38.54	5.90	36.44	9.50	0.61	33.83	54	-20.17	A	1.00	
* 12075.25	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00	
* 14490.30	-----	-----	-----	-----	0.00	0.69	-----	-----	-----	-----	1.00	
16905.35	-----	-----	-----	-----	0.00	0.44	-----	-----	-----	-----	1.00	
* 19320.40	-----	-----	-----	-----	0.00	1.98	-----	-----	-----	-----	1.00	
21735.45	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00	
24150.50	-----	-----	-----	-----	0.00	2.86	-----	-----	-----	-----	1.00	

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 2 (black).
- The test data marked in gray background means the EUT emission data is located in the margin uncertainty range of emission limits.



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 69 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH6 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2440.30	86.55	31.76	3.45	0.00	9.50	0.00	112.26	Fundamental Frequency		P	1.00
2440.30	78.78	31.76	3.45	0.00	9.50	0.00	104.49			A	1.00
* 4875.25	44.20	34.78	2.72	35.20	9.50	1.80	38.80	74	-35.20	P	1.00
* 4875.25	32.73	34.78	2.72	35.20	9.50	1.80	27.33	54	-26.67	A	1.00
* 7318.48	47.22	39.77	4.83	35.64	9.50	2.00	48.68	74	-25.32	P	1.00
* 7318.48	35.76	39.77	4.83	35.64	9.50	2.00	37.22	54	-16.78	A	1.00
9747.44	45.92	38.53	5.90	36.60	9.50	0.55	44.80	74	-29.20	P	1.00
9747.44	34.84	38.53	5.90	36.60	9.50	0.55	33.72	54	-20.28	A	1.00
* 12201.50	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14641.80	-----	-----	-----	-----	0.00	0.59	-----	-----	-----	-----	1.00
17082.10	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19522.40	-----	-----	-----	-----	0.00	2.22	-----	-----	-----	-----	1.00
21962.70	-----	-----	-----	-----	0.00	0.71	-----	-----	-----	-----	1.00
24403.00	-----	-----	-----	-----	0.00	2.46	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$ ,  $Margin = Level - Limit$ .
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 2 (black).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 70 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH6 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2440.17	90.24	31.76	3.45	0.00	9.50	0.00	115.95	Fundamental Frequency		P	1.00
2440.17	82.41	31.76	3.45	0.00	9.50	0.00	108.12			A	1.00
* 4873.67	45.24	34.77	2.73	35.20	9.50	1.81	39.84	74	-34.16	P	1.00
* 4873.67	33.59	34.77	2.73	35.20	9.50	1.81	28.19	54	-25.81	A	1.00
* 7307.64	51.56	39.78	4.82	35.64	9.50	2.00	53.02	74	-20.98	P	1.00
* 7307.64	38.23	39.78	4.82	35.64	9.50	2.00	39.69	54	-14.31	A	1.00
9747.54	46.06	38.53	5.90	36.60	9.50	0.55	44.94	74	-29.06	P	1.00
9747.54	35.41	38.53	5.90	36.60	9.50	0.55	34.29	54	-19.71	A	1.00
* 12200.85	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14641.02	-----	-----	-----	-----	0.00	0.59	-----	-----	-----	-----	1.00
17081.19	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19521.36	-----	-----	-----	-----	0.00	2.22	-----	-----	-----	-----	1.00
21961.53	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24401.70	-----	-----	-----	-----	0.00	2.46	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 2 (black).



# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 71 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH11 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2459.49	86.11	31.74	3.31	0.00	9.50	0.00	111.66	Fundamental Frequency		P	1.00
2459.49	78.29	31.74	3.31	0.00	9.50	0.00	103.84			A	1.00
* 2483.65	37.20	31.72	3.12	0.00	9.50	0.00	62.54	74	-11.46	P	1.00
* 2483.65	21.40	31.72	3.12	0.00	9.50	0.00	46.74	54	-7.26	A	1.00
* 4925.75	44.06	35.11	2.63	35.24	9.50	1.60	38.66	74	-35.34	P	1.00
* 4925.75	32.35	35.11	2.63	35.24	9.50	1.60	26.95	54	-27.05	A	1.00
* 7386.65	47.65	39.75	4.85	35.62	9.50	2.00	49.13	74	-24.87	P	1.00
* 7386.65	34.75	39.75	4.85	35.62	9.50	2.00	36.23	54	-17.77	A	1.00
9846.34	47.03	38.52	5.90	36.75	9.50	0.49	45.68	74	-28.32	P	1.00
9846.34	35.30	38.52	5.90	36.75	9.50	0.49	33.95	54	-20.05	A	1.00
* 12297.45	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14756.94	-----	-----	-----	-----	0.00	0.49	-----	-----	-----	-----	1.00
17216.43	-----	-----	-----	-----	0.00	0.59	-----	-----	-----	-----	1.00
* 19675.92	-----	-----	-----	-----	0.00	2.38	-----	-----	-----	-----	1.00
* 22135.41	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24594.90	-----	-----	-----	-----	0.00	2.17	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 2 (black).





# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 72 of 99

Test Requirement: 15.205

The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company :	PRO-NETS TECHNOLOGY CORPORATION	Test Date :	2003/12/19
Product Name :	Wireless LAN PCI Adapter	Test By:	Alan Fan
Model Name :	PC80211G	TEMP&Humidity :	21.1°C , 31%

CH11 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2459.54	89.79	31.74	3.31	0.00	9.50	0.00	115.34	Fundamental Frequency		P	1.00
2459.54	81.06	31.74	3.31	0.00	9.50	0.00	106.61			A	1.00
* 2483.65	37.00	31.72	3.12	0.00	9.50	0.00	62.34	74	-11.66	P	1.00
* 2483.65	21.60	31.72	3.12	0.00	9.50	0.00	46.94	54	-7.06	A	1.00
* 4924.00	45.42	35.10	2.64	35.24	9.50	1.60	40.02	74	-33.98	P	1.00
* 4924.00	33.61	35.10	2.64	35.24	9.50	1.60	28.21	54	-25.79	A	1.00
* 7377.03	51.33	39.75	4.85	35.62	9.50	2.00	52.81	74	-21.19	P	1.00
* 7377.03	38.28	39.75	4.85	35.62	9.50	2.00	39.76	54	-14.24	A	1.00
9848.05	46.24	38.52	5.90	36.76	9.50	0.49	44.89	74	-29.11	P	1.00
9848.05	35.52	38.52	5.90	36.76	9.50	0.49	34.17	54	-19.83	A	1.00
* 12297.70	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14757.24	-----	-----	-----	-----	0.00	0.49	-----	-----	-----	-----	1.00
17216.78	-----	-----	-----	-----	0.00	0.59	-----	-----	-----	-----	1.00
* 19676.32	-----	-----	-----	-----	0.00	2.38	-----	-----	-----	-----	1.00
* 22135.86	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24595.40	-----	-----	-----	-----	0.00	2.17	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
- Remark “\*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB.
- The result basic equation calculation is as follow:  
 $Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit.$
- The other emission levels were very low against the limit.
- The test limit distance is 3M limit.
- For 802.11g mode at 6Mbps.
- For Antenna 2 (black).



### 3.7 Photos of Open Site

For Antenna 1 (white)





**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G

Report No. : ER04-04-071FRF

Page 74 of 99



For Antenna 2 (black)





## Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 76 of 99





## 4. 6dB BANDWIDTH MEASUREMENT

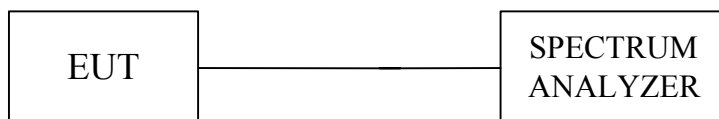
### 4.1 Test Equipments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	JUN. 17, 2003
HP ATTENUATOR	8496B	3247A18505	Cal. on use
HP PLOTTER	7750A	725A 852141	N/A

Note :

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.2 Test Setup



### 4.3 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500KHz

### 4.4 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 100 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

### 4.5 Uncertainty of Conducted Emission

The uncertainty of conducted emission is  $\pm 200$ KHz.



## Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 78 of 99

### 4.6 Test Results

<b>Input Power (System)</b>	3.3VDC (From PC)	<b>Environmental Conditions</b>	17.1°C, 74%RH,
<b>Tested By</b>	Alan Fan		

<b>Channel</b>	<b>Channel Frequency (MHz)</b>	<b>6dB Bandwidth (MHz)</b>	<b>Minimum Limit (MHz)</b>	<b>Pass / Fail</b>
1	2412	12.22	0.5	PASS
6	2437	12.22	0.5	PASS
11	2462	12.18	0.5	PASS

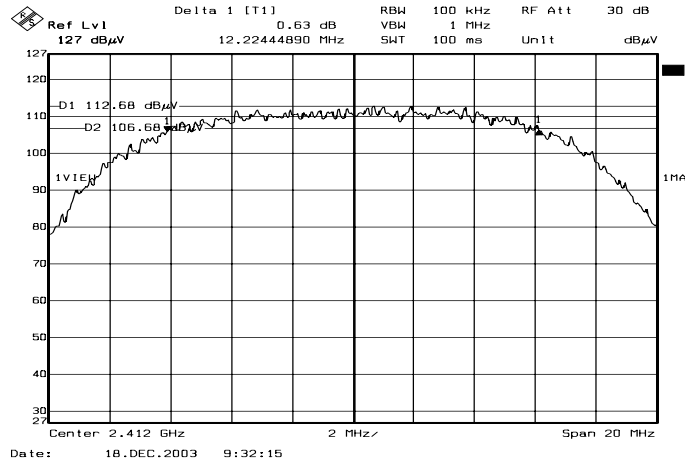
Note: For 802.11b Mode.

<b>Channel</b>	<b>Channel Frequency (MHz)</b>	<b>6dB Bandwidth (MHz)</b>	<b>Minimum Limit (MHz)</b>	<b>Pass / Fail</b>
1	2412	16.59	0.5	PASS
6	2437	16.59	0.5	PASS
11	2462	16.55	0.5	PASS

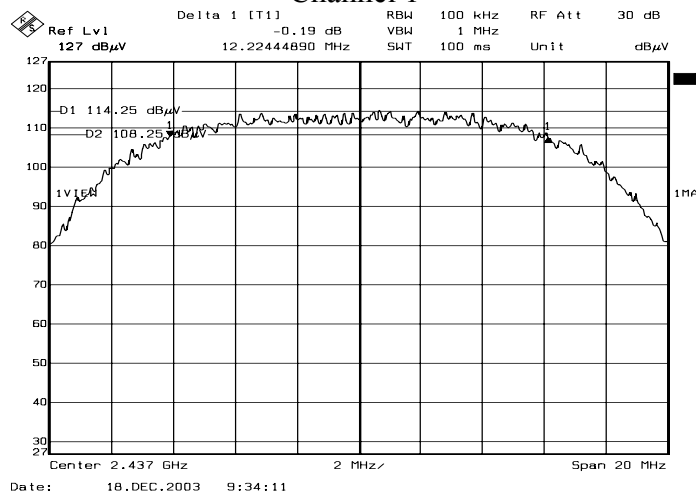
Note: For 802.11g Mode.



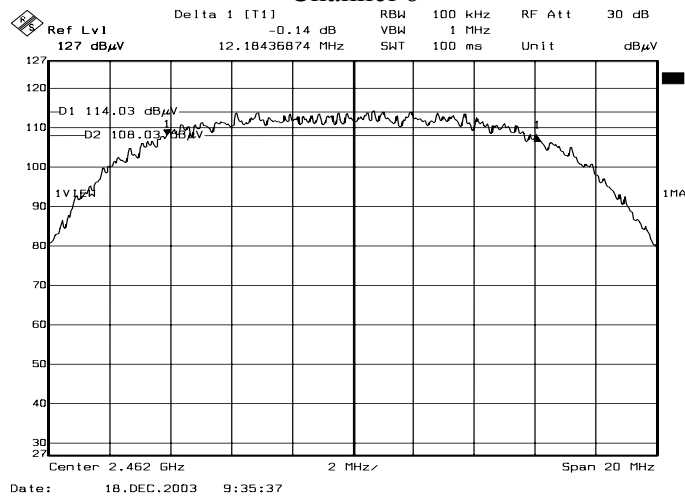
### 4.7 Photo of 6db Bandwidth Measurement



Channel 1



Channel 6



Channel 11

Note: For 802.11b Mode





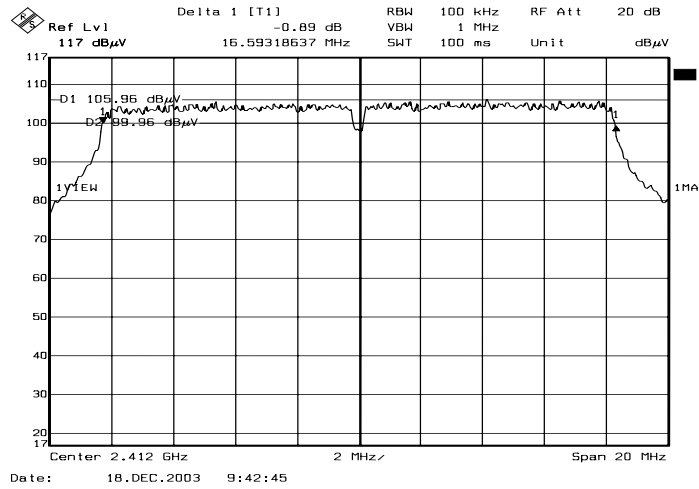
# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

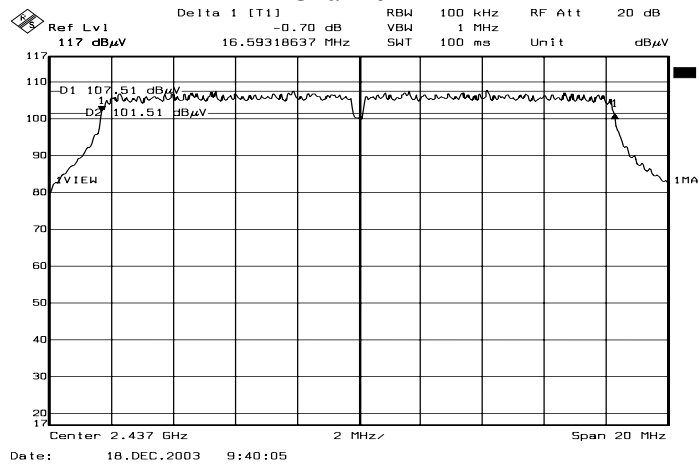
FCC ID : RXZ-PC80211G

Report No. : ER04-04-071FRF

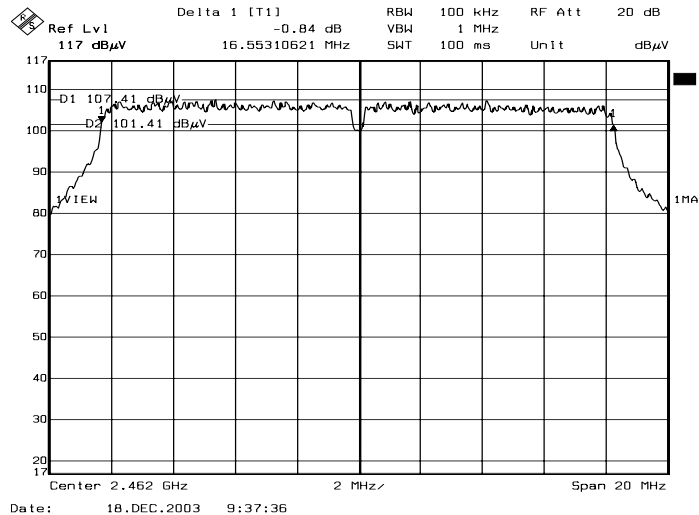
Page 80 of 99



## Channel 1



## Channel 6



## Channel 11

Note: For 802.11g Mode





## 5. MAXIMUM PEAK OUTPUT POWER

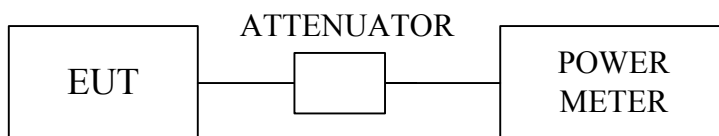
### 5.1 Test Equipments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	JUN. 17, 2003
HP ATTENUATOR	8496B	3247A18505	Cal. on use
HP PLOTTER	7750A	725A 852141	N/A
GIGASTRONICS POWER METER	8542	1828329	SEPT.19, 2003

Note :

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 5.2 Test Setup



### 5.3 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.



### 5.4 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector ( conducted measurement ) while EUT was operating in transmit mode at the appropriate center frequency.

### 5.5 Uncertainty of Conducted Emission

The uncertainty of conducted emission is  $\pm 1.82$ dB.

### 5.6 Test Results

<b>Input Power (System)</b>	3.3VDC (From PC)	<b>Environmental Conditions</b>	17.1°C, 74%RH,
<b>Tested By</b>	Alan Fan		

Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
1	2412	19.46	30	PASS
6	2437	21.27	30	PASS
11	2462	21.23	30	PASS

Note : 1. For 802.11b Mode.  
 2. At final test to get the worst-case emission at 11Mbps.  
 3. The result basic equation calculation as follow :  
 $Peak\ Power\ Output = Peak\ Power\ Reading + Cable\ loss + Attenuator.$

Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
1	2412	15.46	30	PASS
6	2437	17.32	30	PASS
11	2462	17.26	30	PASS

Note : 1. For 802.11g Mode.  
 2. At final test to get the worst-case emission at 6Mbps.  
 3. The result basic equation calculation as follow :  
 $Peak\ Power\ Output = Peak\ Power\ Reading + Cable\ loss + Attenuator.$



## 6. POWER SPECTRAL DENSITY MEASUREMENT

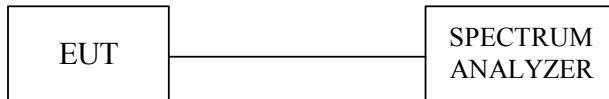
### 6.1 Test Equipments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	JUN. 17, 2003
HP ATTENUATOR	8496B	3247A18505	Cal. on use
HP PLOTTER	7750A	725A 852141	N/A

Note :

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 6.2 Test Setup



### 6.3 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.



### 6.4 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3KHz RBW and 30KHz VBW, set sweep time=span / 3KHz.

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.

### 6.5 Uncertainty of Conducted Emission

The uncertainty of conducted emission is ± 1.82dB.

### 6.6 Test Results

<b>Input Power (System)</b>	3.3VDC (From PC)	<b>Environmental Conditions</b>	17.1°C, 74%RH,
<b>Tested By</b>	Alan Fan		

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Maxmum Limit (dBm)	Pass / Fail
1	2412	-9.16	8	PASS
6	2437	-6.53	8	PASS
11	2462	-6.75	8	PASS

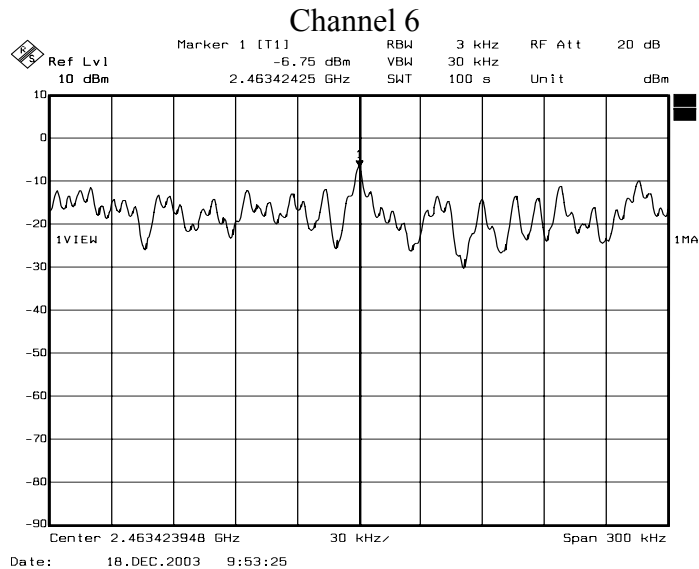
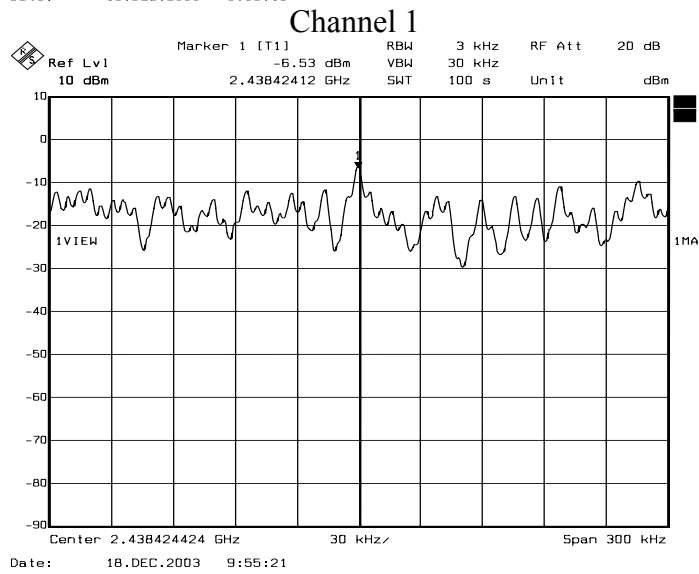
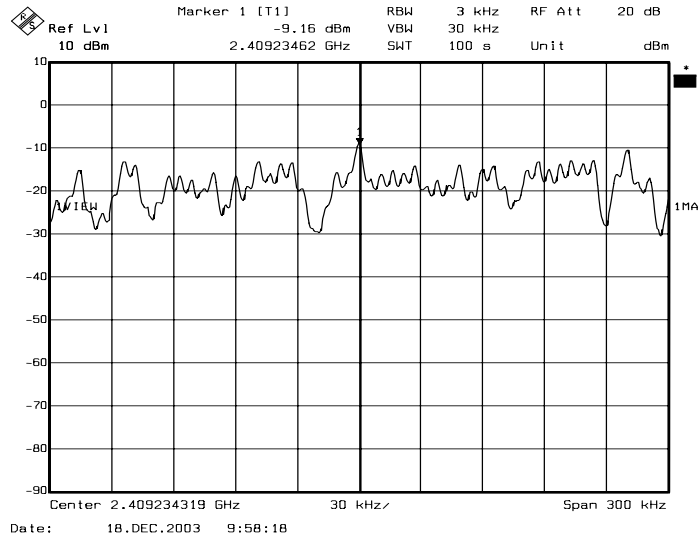
Note: For 11Mbps (802.11b mode) at final test to get the worst-case emission at 11Mbps.

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Maxmum Limit (dBm)	Pass / Fail
1	2412	-15.85	8	PASS
6	2437	-15.17	8	PASS
11	2462	-14.81	8	PASS

Note: For 54Mbps (802.11g mode) at final test to get the worst-case emission at 6Mbps.



### 6.7 Photo of Power Spectral Density Measurement



Channel 11  
Note: For 802.11b Mode



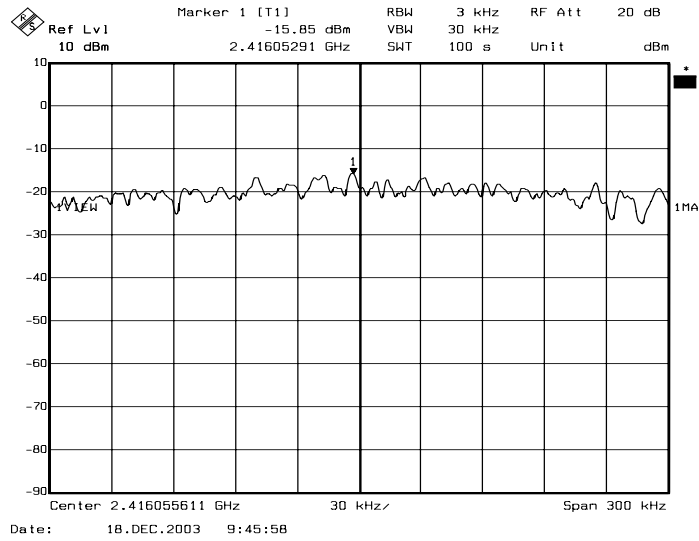
# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX: 886-3-5825720

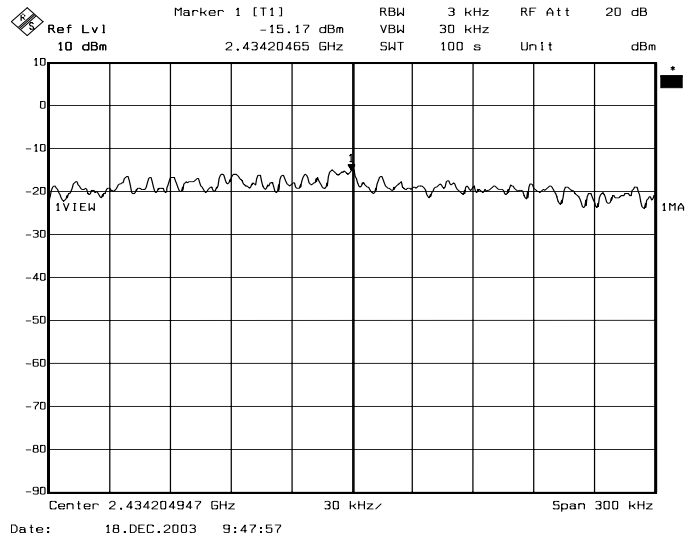
FCC ID : RXZ-PC80211G

Report No. : ER04-04-071FRF

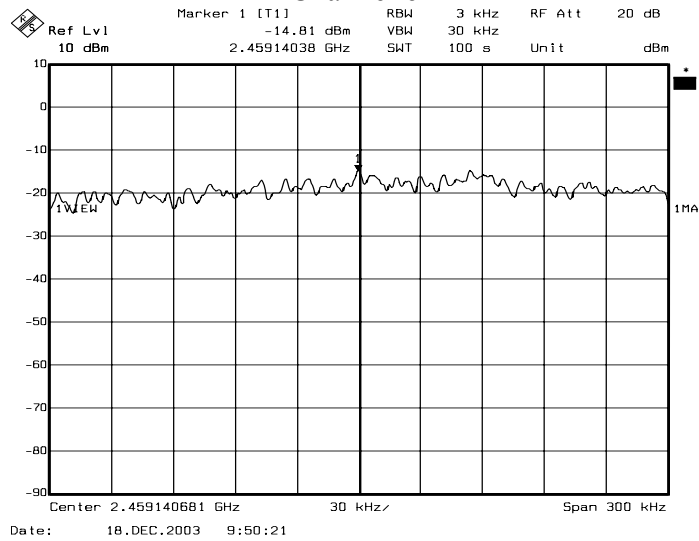
Page 86 of 99



## Channel 1



## Channel 6



## Channel 11

Note: For 802.11g Mode



## 7. BAND EDGE MEASUREMENT

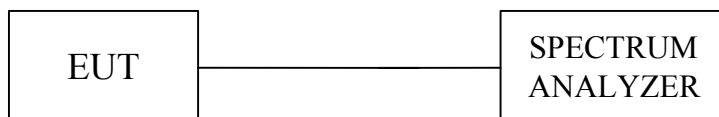
### 7.1 Test Equipments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	JUN. 17, 2003
HP ATTENUATOR	8496B	3247A18505	Cal. on use
HP PLOTTER	7750A	725A 852141	N/A

Note :

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 7.2 Test Setup



### 7.3 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.



### 7.4 Test Procedure

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100KHz with suitable frequency span including 100KHz bandwidth from band edge. The band edges was measured and recorded.

### 7.5 Uncertainty of Conducted Emission

The uncertainty of conducted emission is  $\pm 1.82$ dB.

### 7.6 Test Results

A. Conducted

Refer to 7.7 photo of out band Emission measurement

B. Radiated

For 802.11b Mode, Antenna 1 (white)

Refer to the section 3.6, the measured radiated band edge emissions are listed below :

<b>Input Power (System)</b>	3.3VDC (From PC)	<b>Environmental Conditions</b>	17.1°C, 74%RH
<b>Tested By</b>	Alan Fan		

Band edge		Measured radiated band edge field strength (dBuV/m)		Radiated band edge field strength limit (dBuV/m)		Test result
		Horizontal	Vertical	Horizontal	Vertical	
2399.90	PK	61.67	67.86	88.50	94.69	pass
	AVG	51.31	57.70	81.73	88.12	
2483.50	PK	55.09	61.12	74.00	74.00	pass
	AVG	43.40	49.58	54.00	54.00	

Note : Radiated front band edge field strength is measured with mark-delta method.  
Measured radiated band edge field strength Test Results = Radiated fundamental emission field strength – DELTA.  
DELTA = Relative measurement between conducted measured peak level of fundamental emission and relevant band edge emission. Please refer to 7.7 photo of out of Band Measurement.



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 89 of 99

For 802.11g Mode, Antenna 1 (white)

Refer to the section 3.6, the measured radiated band edge emissions are listed below :

<b>Input Power (System)</b>	3.3VDC (From PC)	<b>Environmental Conditions</b>	17.1°C, 74%RH
<b>Tested By</b>	Alan Fan		

Band edge		Measured radiated band edge field strength (dBuV/m)		Radiated band edge field strength limit (dBuV/m)		Test result
		Horizontal	Vertical	Horizontal	Vertical	
2399.90	PK	69.15	73.55	85.58	89.98	pass
	AVG	48.62	53.24	76.00	80.62	
2483.50	PK	62.53	68.11	74.00	74.00	pass
	AVG	43.72	49.42	54.00	54.00	

Note : Radiated front band edge field strength is measured with mark-delta method.  
 Measured radiated band edge field strength Test Results = Radiated fundamental emission field strength – DELTA.  
 DELTA = Relative measurement between conducted measured peak level of fundamental emission and relevant band edge emission. Please refer to 7.7 photo of out of Band Measurement.



**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 90 of 99

For 802.11b Mode, Antenna 2 (black)

Refer to the section 3.6, the measured radiated band edge emissions are listed below :

<b>Input Power (System)</b>	3.3VDC (From PC)	<b>Environmental Conditions</b>	17.1°C, 74%RH
<b>Tested By</b>	Alan Fan		

Band edge		Measured radiated band edge field strength (dBuV/m)		Radiated band edge field strength limit (dBuV/m)		Test result
		Horizontal	Vertical	Horizontal	Vertical	
2399.90	PK	69.66	73.28	96.49	100.11	pass
	AVG	59.47	62.93	89.89	93.35	
2483.50	PK	62.33	65.55	74.00	74.00	pass
	AVG	50.85	53.83	54.00	54.00	

Note : Radiated front band edge field strength is measured with mark-delta method.  
 Measured radiated band edge field strength Test Results = Radiated fundamental emission field strength – DELTA.  
 DELTA = Relative measurement between conducted measured peak level of fundamental emission and relevant band edge emission. Please refer to 7.7 photo of out of Band Measurement.

**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 91 of 99

For 802.11g Mode, Antenna 2 (black)

Refer to the section 3.6, the measured radiated band edge emissions are listed below :

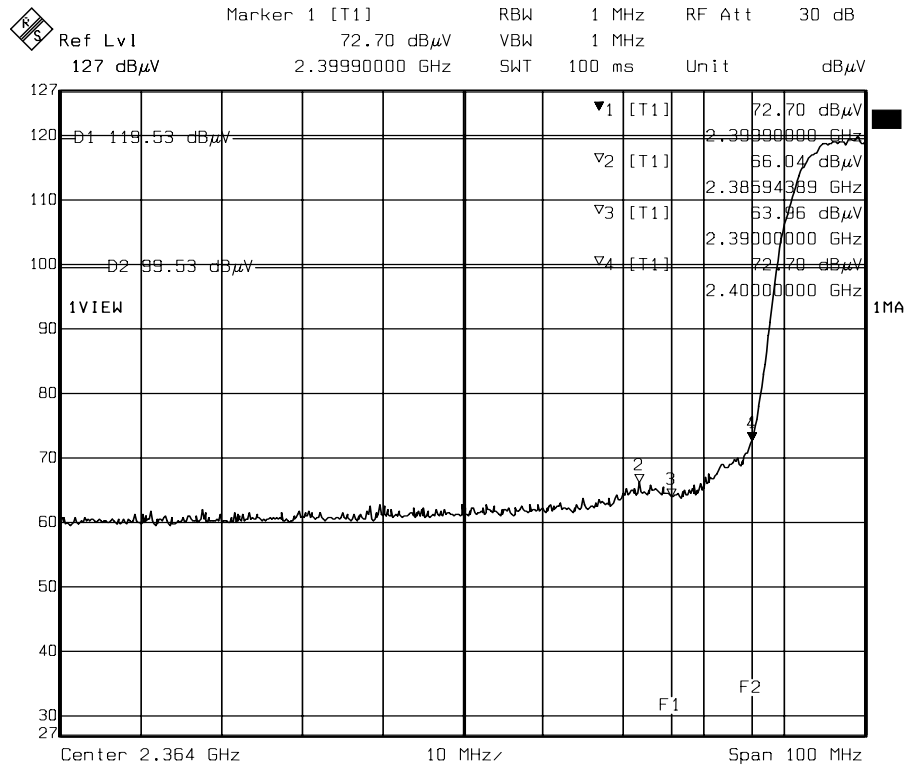
<b>Input Power (System)</b>	3.3VDC (From PC)	<b>Environmental Conditions</b>	17.1°C, 74%RH
<b>Tested By</b>	Alan Fan		

Band edge		Measured radiated band edge field strength (dBuV/m)		Radiated band edge field strength limit (dBuV/m)		Test result
		Horizontal	Vertical	Horizontal	Vertical	
2399.90	PK	74.69	78.89	91.12	95.32	pass
	AVG	56.02	60.05	83.40	87.43	
2483.50	PK	67.93	71.61	74.00	74.00	pass
	AVG	50.86	53.63	54.00	54.00	

Note : Radiated front band edge field strength is measured with mark-delta method.  
 Measured radiated band edge field strength Test Results = Radiated fundamental emission field strength – DELTA.  
 DELTA = Relative measurement between conducted measured peak level of fundamental emission and relevant band edge emission. Please refer to 7.7 photo of out of Band Measurement.

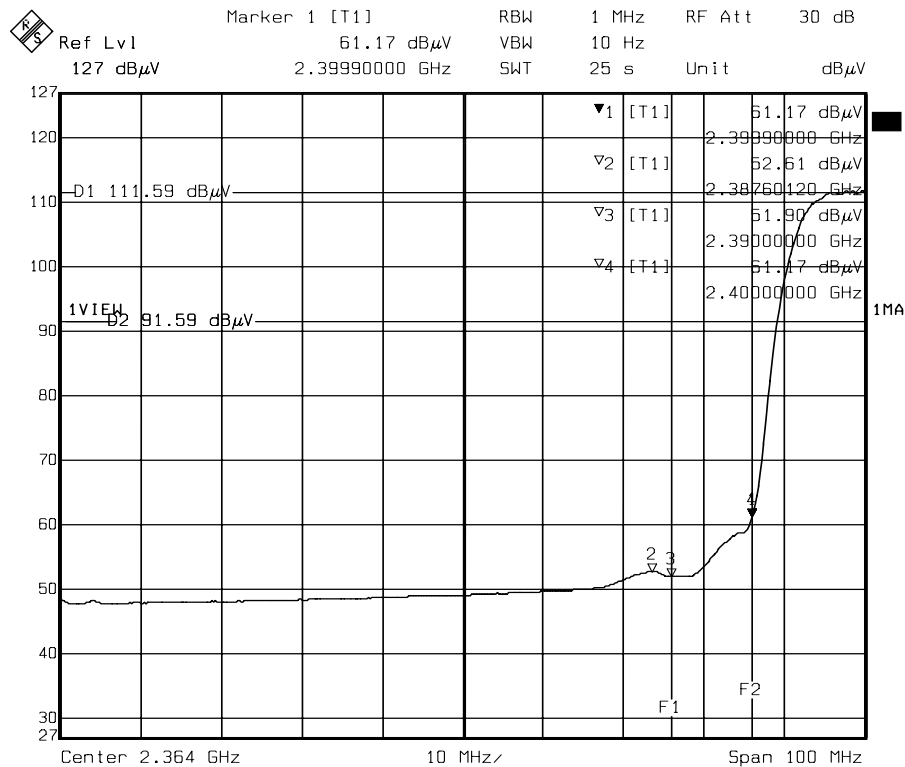


**7.7 Photo of Out of Band edge Measurement**



Date: 18.DEC.2003 10:41:55

**FRONT (Peak)**



Date: 18.DEC.2003 10:46:24

**FRONT (AVG)**

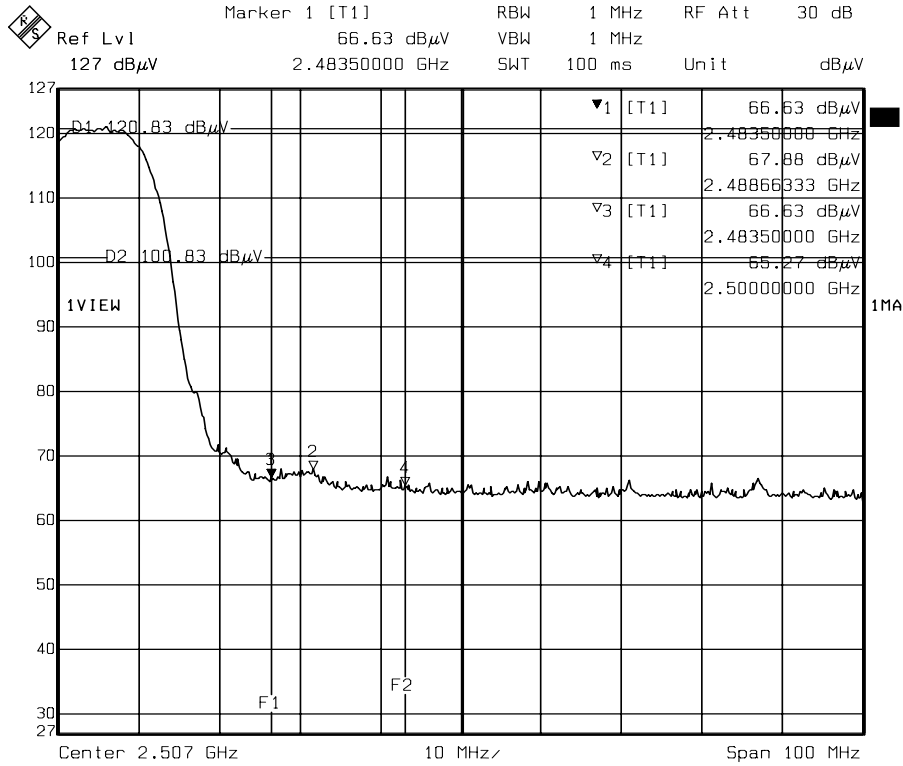
Note: For 802.11b Mode



**Ecom Sertech Corp.**

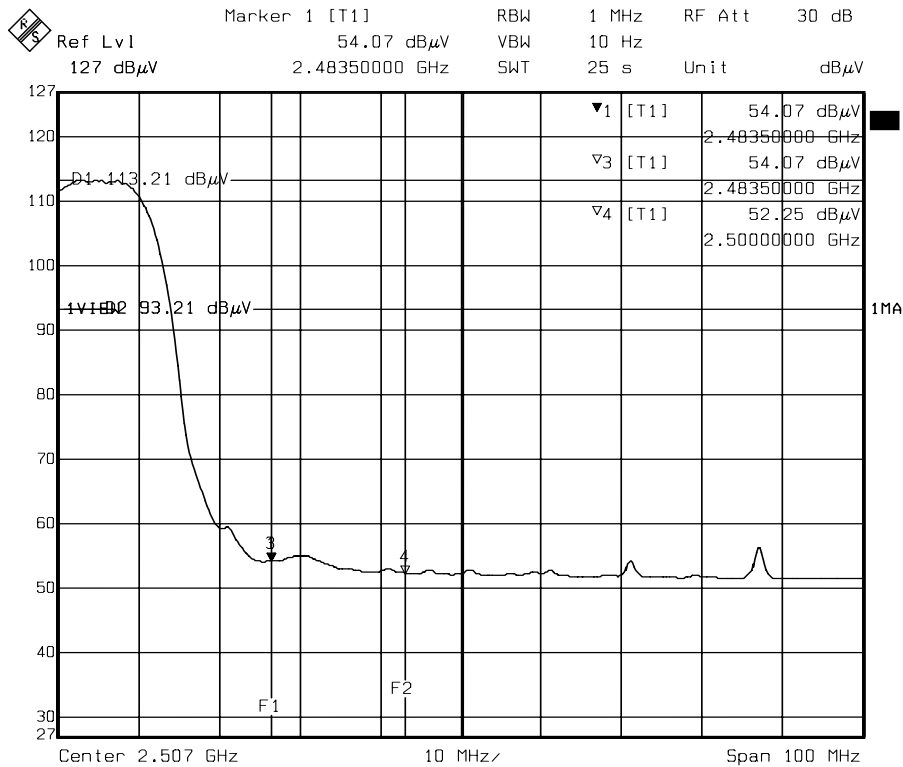
Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G  
 Report No. : ER04-04-071FRF  
 Page 93 of 99



Date: 18.DEC.2003 10:53:18

**BACK (Peak)**



Date: 18.DEC.2003 10:57:39

**BACK (AVG)**

Note: For 802.11b Mode



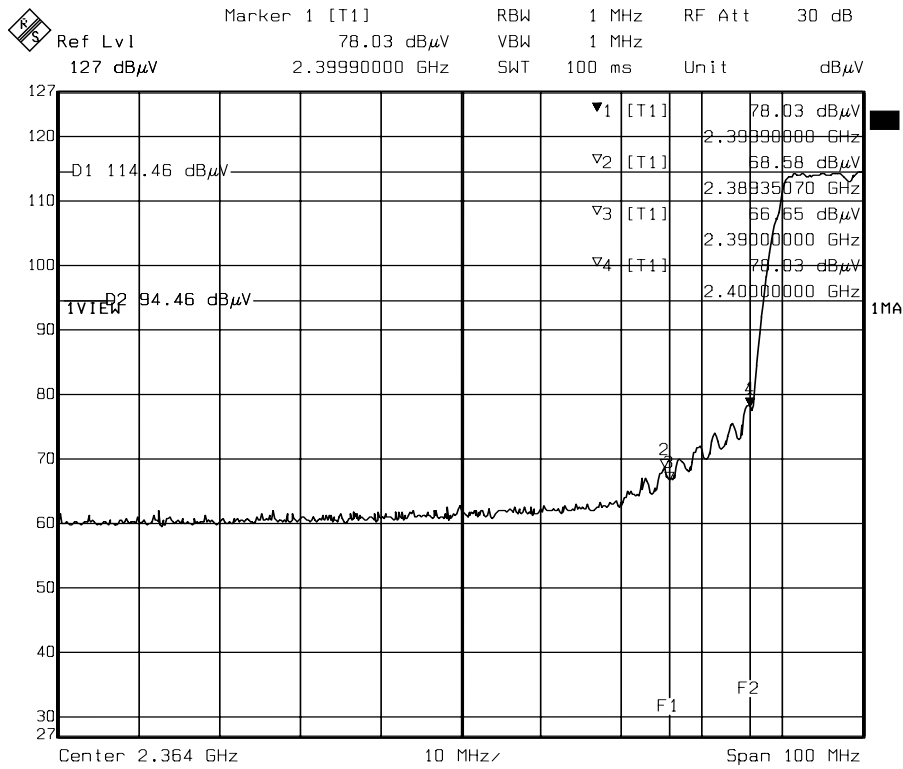
# Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G

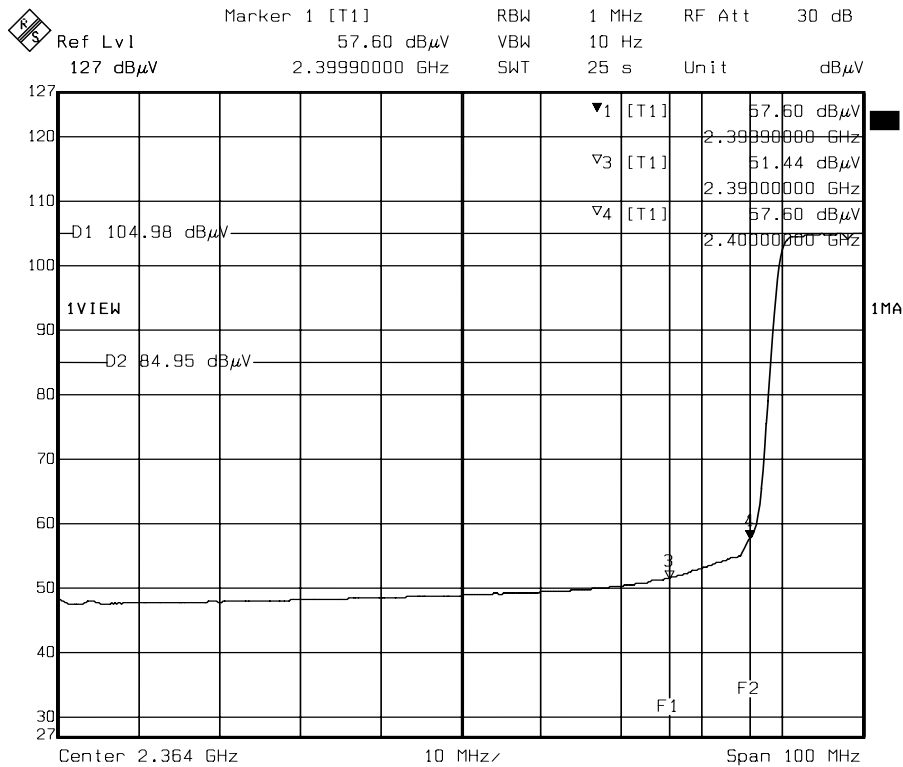
Report No. : ER04-04-071FRF

Page 94 of 99



Date: 18.DEC.2003 12:50:46

## FRONT (Peak)



Date: 18.DEC.2003 13:05:15

## FRONT (AVG)

Note: For 802.11g Mode



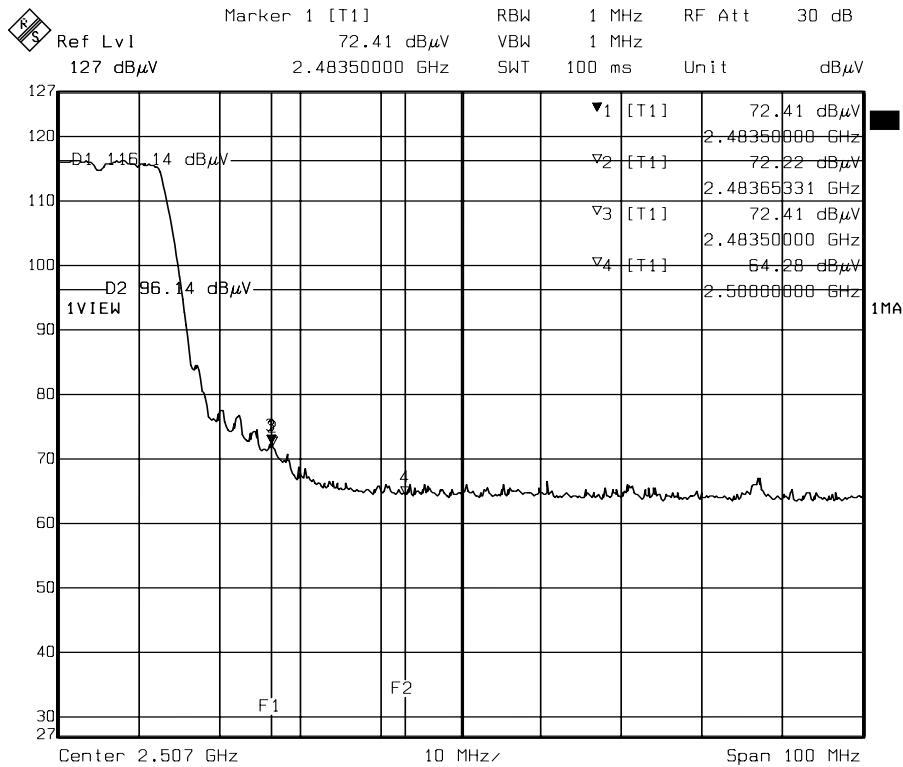
**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : RXZ-PC80211G

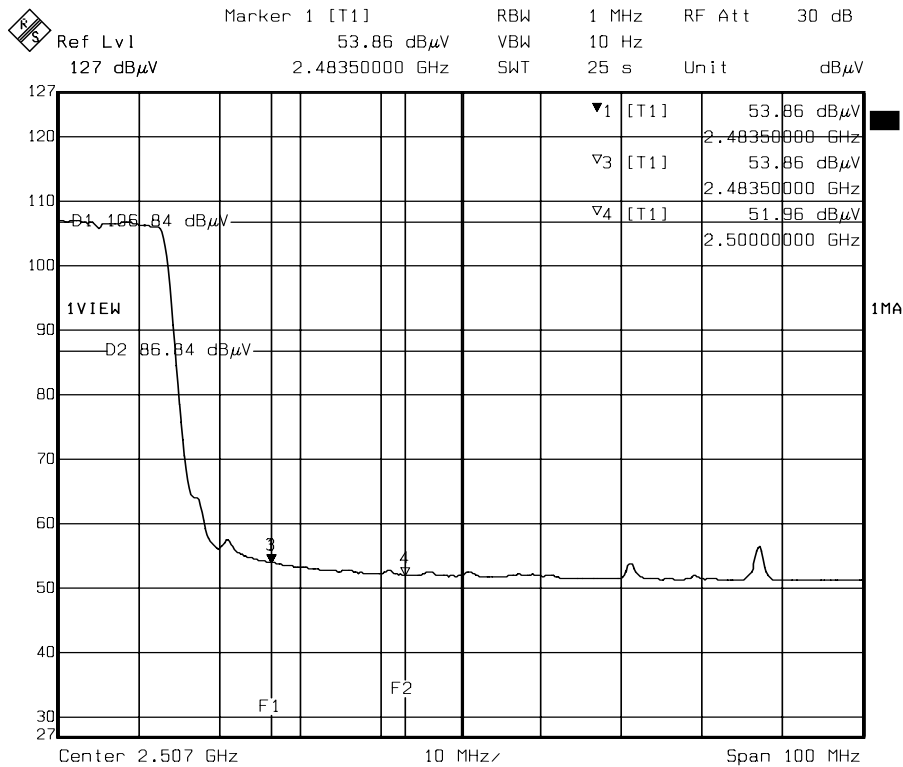
Report No. : ER04-04-071FRF

Page 95 of 99



Date: 18.DEC.2003 13:10:26

**BACK (Peak)**



Date: 18.DEC.2003 13:07:52

**BACK (AVG)**

Note: For 802.11g Mode



## **8. ANTENNA REQUIREMENT**

### **8.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **8.2 Antenna Connected Construction**

The antenna 1 (white) used in this product is Dipole antenna with an external irremovable cable. The maximum Gain of this antenna is only 2dBi, cable loss is 1dB.

The antenna 2 (black) used in this product is Dipole antenna. The maximum Gain of this antenna is only 1dBi.

Antenna type is reverse SMA.





## 9. RF EXPOSURE EVALUATION

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 <sup>2</sup> )	Average Time
(A) Limits for Occupational / Control Exposures				
300-1,500	--	--	F/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Population / Uncontrol Exposures				
300-1,500	--	--	F/1500	6
1,500-100,000	--	--	1	30

### 9.1 Friis Formula

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

Where

Pd = power density in mW/cm<sup>2</sup>

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/cm<sup>2</sup>. 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.

### 9.2 EUT Operating Condition

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



### 9.3 Test Result of RF Exposure Evaluation

Test Item : RF Exposure Evaluation Data

Test Mode : Normal Operation

#### 9.3.1 Antenna Gain

Antenna 1 (white) Gain : The maximum Gain measured in fully anechoic chamber is 2dBi linear scale. Cable loss = 1dB.

Antenna 2 (black) Gain : The maximum Gain measured in fully anechoic chamber is 2dBi linear scale.

#### 9.3.2 Output Power into Antenna & RF Exposure Evaluation Distance

For Antenna 1 (white), Antenna Gain : 2dBi, cable loss : 1dB.

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density at 20cm (mW/cm <sup>2</sup> )	LIMITS (mW/cm <sup>2</sup> )
CH1	2412.00	20.46	0.027844	1
CH6	2437.00	22.27	0.042241	1
CH11	2462.00	22.23	0.041853	1

Note : 1. For Antenna 1 802.11b Mode (11Mbps).

- The power density Pd (4th column) at a distance of 20cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm<sup>2</sup>. The EUT is classified as mobile product. So, RF exposure limit warning or SAR test are not required.

For Antenna 1 (white), Antenna Gain : 2dBi, cable loss : 1dB.

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density at 20cm (mW/cm <sup>2</sup> )	LIMITS (mW/cm <sup>2</sup> )
CH1	2412.00	16.46	0.011085	1
CH6	2437.00	18.32	0.017011	1
CH11	2462.00	18.26	0.016778	1

Note : 1. For Antenna 1 802.11g Mode (6Mbps).

- The power density Pd (4th column) at a distance of 20cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm<sup>2</sup>. The EUT is classified as mobile product. So, RF exposure limit warning or SAR test are not required.

**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C  
TEL:886-3-5918012 FAX : 886-3-5825720

FCC ID : RXZ-PC80211G  
Report No. : ER04-04-071FRF  
Page 99 of 99

For Antenna 2 (black), Antenna Gain : 2dBi.

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density at 20cm (mW/cm <sup>2</sup> )	LIMITS (mW/cm <sup>2</sup> )
CH1	2412.00	21.46	0.044130	1
CH6	2437.00	23.27	0.066947	1
CH11	2462.00	23.23	0.066333	1

Note : 1. For Antenna 2 802.11b Mode (11Mbps).

- The power density Pd (4th column) at a distance of 20cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm<sup>2</sup>. The EUT is classified as mobile product. So, RF exposure limit warning or SAR test are not required.

For Antenna 2 (black), Antenna Gain : 2dBi.

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density at 20cm (mW/cm <sup>2</sup> )	LIMITS (mW/cm <sup>2</sup> )
CH1	2412.00	17.46	0.017568	1
CH6	2437.00	19.32	0.026961	1
CH11	2462.00	19.26	0.026591	1

Note : 1. For Antenna 2 802.11g Mode (6Mbps).

- The power density Pd (4th column) at a distance of 20cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm<sup>2</sup>. The EUT is classified as mobile product. So, RF exposure limit warning or SAR test are not required.