



## FCC 47 CFR PART 15 SUBPART C

### TEST REPORT

For

**Wintecronics Co., Ltd.**

**27 MHz 2/3 CH RF Handset Transmitter & 27 MHz 2/3 CH RF Receiver**

**Model: LG2-01**

**Trade Name: Wintec**

*Prepared for*

**Wintecronics Co., Ltd.  
No. 716, 11F-3, Jung Jeng Rd., Chung Ho City,  
Taipei Hsien, (235) Taiwan, R.O.C.**

*Prepared by*

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## 1. TEST RESULT CERTIFICATION

**Applicant:** Wintecronics Co., Ltd.  
No. 716, 11F-3, Jung Jeng Rd., Chung Ho City,  
Taipei Hsien, (235) Taiwan, R.O.C.

**Equipment Under Test:** 27 MHz 2/3 CH RF Handset Transmitter & 27 MHz 2/3 CH RF Receiver

**Trade Name:** Wintec

**Model:** LG2-01

**Model Difference** N/A

**Report Number:** B30919204-RP

**Date of Test:** October 14, 2003

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC Part 15 Subpart C	No non-compliance noted

### We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2001) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.227.

The test results of this report relate only to the tested sample identified in this report.

*Approved by:*

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Jonson Lee  
Director of Linkou Laboratory  
Compliance Certification Services Inc.

*Reviewed by:*

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Eric Wong  
Section Manager  
Compliance Certification Services Inc.



## 2. EUT DESCRIPTION

<b>Product</b>	27 MHz 2/3 CH RF Handset Transmitter & 27 MHz 2/3 CH RF Receiver
<b>Trade Name</b>	Wintec
<b>Model Number</b>	LG2-01
<b>Power Supply</b>	Powered by AA batteries (Rating: 8 × 1.5Vdc)
<b>AC Power Adapter Rating</b>	I/P: 120VAC, 60Hz O/P: 9.6VDC, 70mA (TX) 4.8VDC, 100mA (RX)
<b>Frequency Range</b>	27 MHz
<b>Modulation Technique</b>	Frequency Shifting Key (FSK)

**Note:** This submittal(s) (test report) is intended for FCC ID: NJQLG2-01 filing to comply with Section 15.227 of the FCC Part 15, Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.



### **3. TEST METHODOLOGY**

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, and 15.227.

#### **3.1 EUT CONFIGURATION**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### **3.2 EUT EXERCISE**

The EUT (27 MHz 2/3 CH RF Handset Transmitter & 27 MHz 2/3 CH RF Receiver) was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

#### **3.3 GENERAL TEST PROCEDURES**

##### **Conducted Emissions**

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-2001. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

##### **Radiated Emissions**

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4-2001.

### 3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41	322 - 335.4		

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

### 3.5 DESCRIPTION OF TEST MODES

The EUT (27 MHz 2/3 CH RF Handset Transmitter & 27 MHz 2/3 CH RF Receiver) has been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.



## **4. INSTRUMENT CALIBRATION**

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.



## 5. FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

- No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang, Taoyuan Hsien, Taiwan, R.O.C.
- No. 199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

### 5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

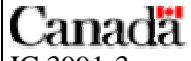
Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200600-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: 93105 and 90471).

## 5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	NVLAP*	EN 55011, EN 55014-1, AS/NZS 1044, CNS 13783-1, EN 55022, CNS 13438, EN 61000-3-2, EN 61000-3-3, ANSI C63.4, FCC OST/MP-5, AS/NZS 3548/IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	 200600-0
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	 93105, 90471
Japan	VCCI	4 3/10 meter Open Area Test Sites to perform conducted/radiated measurements	 R-393/1066/725/879 C-402/747/912
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, EN 60601-1-2, EN 300 328-2, EN 300 422-2, EN 301 419-1, EN 301 489-01/03/07/08/09/17, EN 301 419-2/3, EN 300 454-2, EN 301 357-2	 ELA 124a ELA 124b ELA 124c
Taiwan	CNLA	EN 300 328-1, EN 300 328-2, EN 300 220-1, EN 300 220-2, EN 300 220-3, 47 CFR FCC Part 15 Subpart C, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 14115, CNS 13438, AS/NZS 3548, CNS 13022-1, IEC 1000-4-3/4/5/6/8/11, CNS 13022-2/3	 0 3 6 3 ILAC MRA
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439, CNS 14115	 SL2-IS-E-0014 SL2-IN-E-0014 SL2-A1-E-0014 SL2-R1-E-0014 SL2-R2-E-0014 SL2-L1-E-0014
Canada	Industry Canada	RSS212, Issue 1	 IC 3991-3 IC 3991-4

\* No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.



## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1 SUPPORT EQUIPMENT

27 MHz 2/3 CH RF Handset Transmitter & 27 MHz 2/3 CH RF Receiver  
(EUT / Tx)

27 MHz 2/3 CH RF Handset Transmitter & 27 MHz 2/3 CH RF Receiver  
(EUT / Rx)

Device Type	Brand	Model	FCC ID	Series No.	Data Cable	Power Cord
N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Notes:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

## 7. FCC PART 15.227 REQUIREMENTS

### 7.1 DUTY CYCLE

#### LIMIT

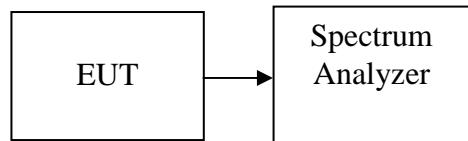
Nil (No dedicated limit specified in the Rules)

#### MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US42510252	04/28/2004
Temp. / Humidity Chamber	Kingson	THS-M1	242	03/20/2004

*Remark: Each piece of equipment is scheduled for calibration once a year.*

#### Test Configuration



#### TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span = 0Hz , Adjust Sweep = 30s.
5. Repeat above procedures until all frequency measured were complete.

#### TEST RESULTS

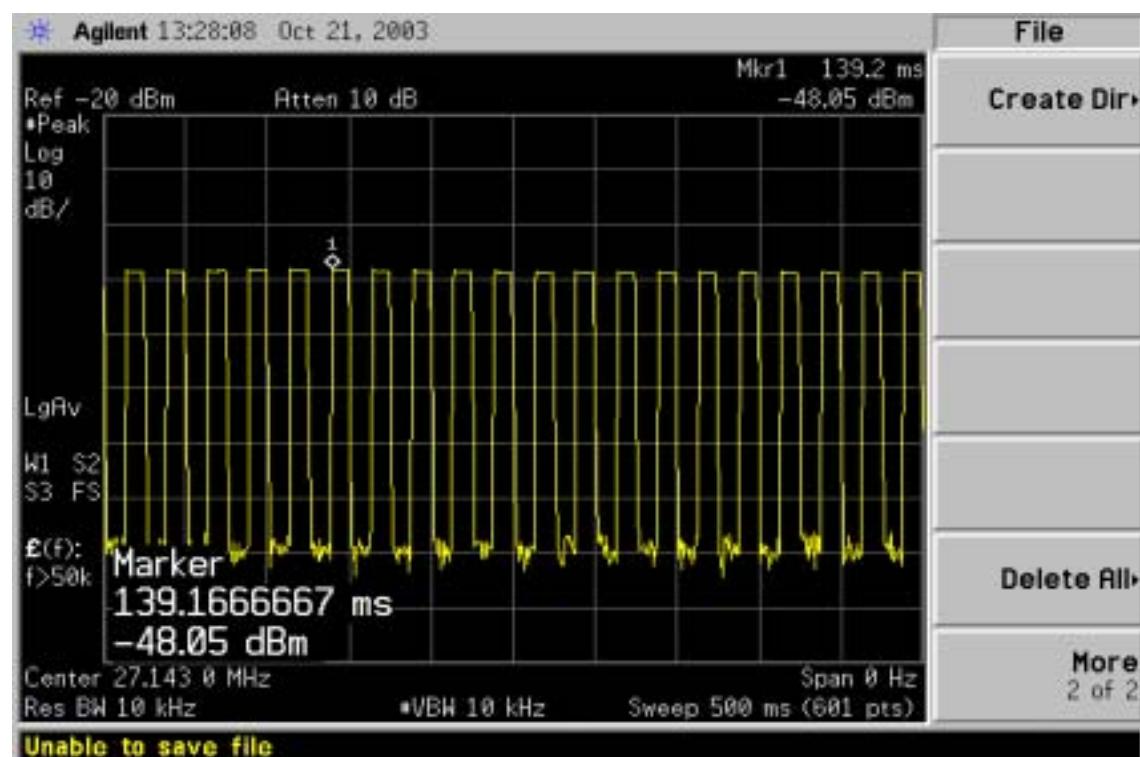
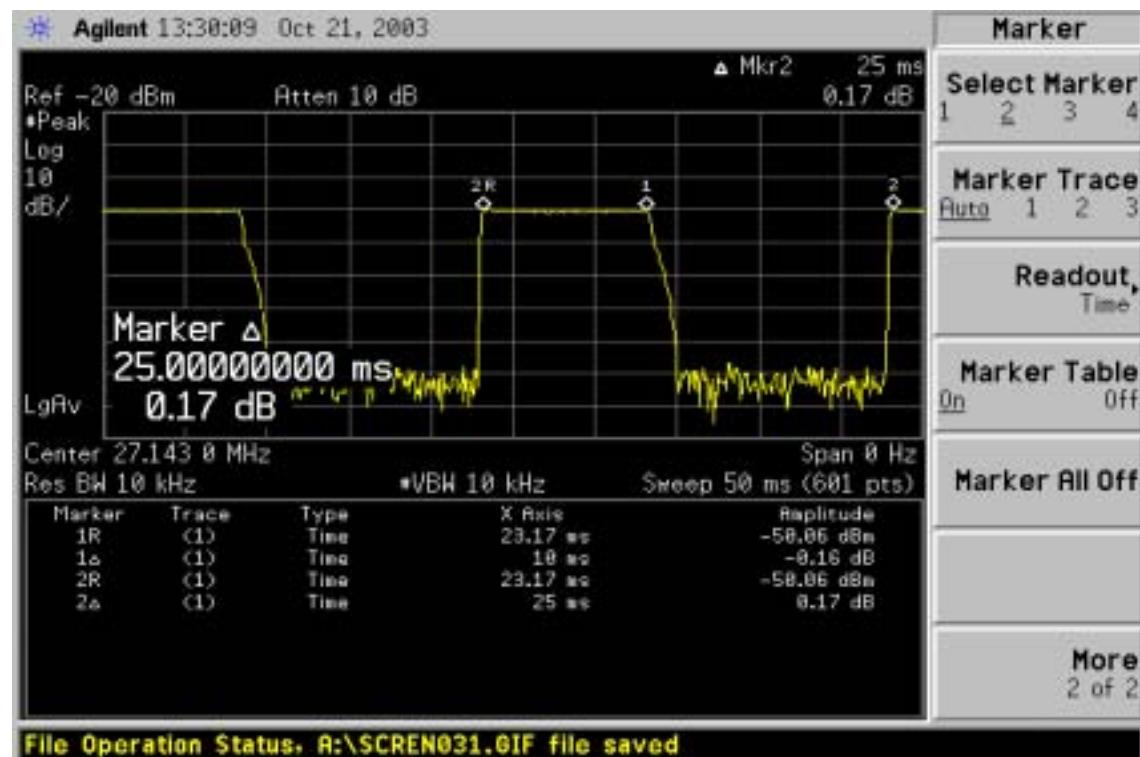
*No non-compliance noted*

#### Test Data

Tp = 25ms

Ton = 10 (ms)

Factor =  $20 * \log(Ton / Tp) = 20 * \log(10/25) = -7.958\text{dB}$

**Test Plot**



## 7.2 RADIATED EMISSIONS

### LIMIT

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

*Note: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength ( $\mu$ V/m at 3-meter)	Field Strength (dB $\mu$ V/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

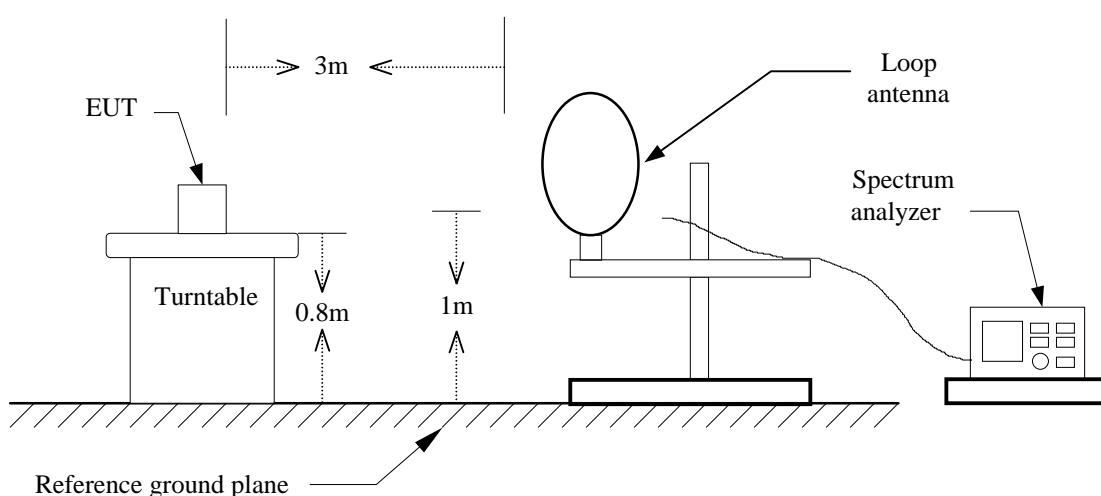
## MEASUREMENT EQUIPMENT USED

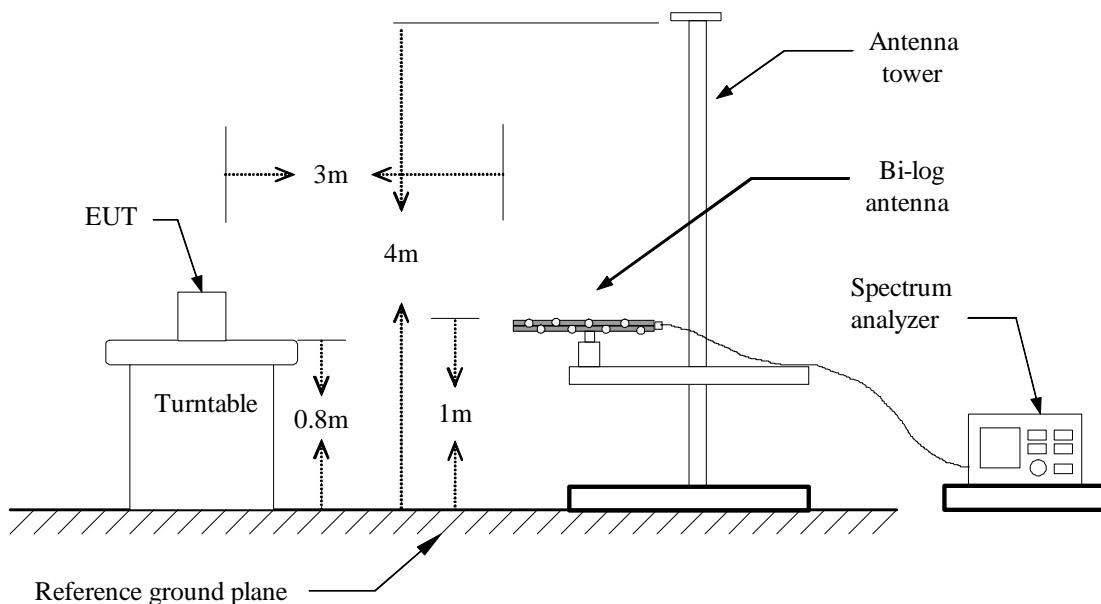
Open Area Test Site # 3				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	ADVANTEST	R3261A	N/A	03/18/2004
EMI Test Receiver	R&S	ESVS20	838804/004	01/04/2004
Pre-Amplifier	HP	8447D	2944A09173	03/03/2004
Bilog Antenna	SCHWAZBECK	VULB9163	145	07/05/2004
Turn Table	EMCO	2081-1.21	9709-1885	N.C.R
Antenna Tower	EMCO	2075-2	9707-2060	N.C.R
Controller	EMCO	2090	9709-1256	N.C.R
RF Switch	ANRITSU	MP59B	M53867	N.C.R
Site NSA	C&C	N/A	N/A	09/06/2004
Horn antenna	Schwarzbeck	BBHA 9120	D210	02/23/2004
Loop Antenna	EMCO	6502	2356	07/10/2004
Pre-Amplifier	HP	8449B	3008B00965	10/02/2004

**Remark:** Each piece of equipment is scheduled for calibration once a year.

## Test Configuration

### Below 1 GHz





## **TEST PROCEDURE**

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are completed.



## TEST RESULTS

### Below 1 GHz

**Operation Mode:** TX X Mode      **Test Date:** October 14, 2003

**Temperature:** 28°C      **Tested by:** Roy

**Humidity:** 60 % RH      **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
27.15	V	Peak	66.25	3.75	70.00	80.00	-10.00
54.30	V	Peak	23.71	14.61	38.32	40.00	-1.68
81.75	V	Peak	22.24	9.96	32.20	40.00	-7.80
462.17	V	Peak	21.33	20.74	42.07	46.00	-3.93
489.00	V	Peak	18.49	22.00	40.49	46.00	-5.51
759.67	V	Peak	15.13	25.93	41.06	46.00	-4.94
868.17	V	Peak	13.19	27.60	40.79	46.00	-5.21
27.15	H	Peak	59.15	3.72	62.87	80.00	-17.13
54.30	H	Peak	10.22	14.61	24.83	40.00	-15.17
489.00	H	Peak	14.99	22.00	36.99	46.00	-9.01
868.17	H	Peak	9.03	27.60	36.63	46.00	-9.37
895.00	H	Peak	8.07	28.06	36.13	46.00	-9.87
949.83	H	Peak	8.45	28.86	37.31	46.00	-8.69
976.67	H	Peak	9.40	29.36	38.76	54.00	-15.24

**Notes:**

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Operation Mode:**

TX Y Mode

**Test Date:**

October 14, 2003

**Temperature:**

28°C

**Tested by:**

Roy

**Humidity:**

60 % RH

**Polarity:**

Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
27.15	V	Peak	66.49	3.75	70.24	80.00	-9.76
434.17	V	Peak	16.53	20.34	36.87	46.00	-9.13
462.17	V	Peak	20.17	20.74	40.91	46.00	-5.09
624.33	V	Peak	13.01	25.13	38.14	46.00	-7.86
731.67	V	Peak	13.03	25.84	38.87	46.00	-7.13
759.67	V	Peak	12.63	25.93	38.56	46.00	-7.44
813.33	V	Peak	13.05	26.44	39.49	46.00	-6.51
27.15	V	Peak	62.93	3.75	66.68	80.00	-13.32
462.17	H	Peak	23.83	20.74	44.57	46.00	-1.43
624.33	H	Peak	18.35	25.13	43.48	46.00	-2.52
732.83	H	Peak	18.36	25.84	44.20	46.00	-1.80
786.50	H	Peak	19.02	26.07	45.09	46.00	-0.91
841.33	H	Peak	18.16	27.08	45.24	46.00	-0.76
868.17	H	Peak	18.19	27.60	45.79	46.00	-0.21

**Notes:**

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.



**Operation Mode:** TX Z Mode **Test Date:** October 14, 2003

**Temperature:** 28°C **Tested by:** Roy

**Humidity:** 60 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
27.15	V	Peak	62.82	3.75	66.57	80.00	-13.43
461.00	V	Peak	14.69	20.68	35.37	46.00	-10.63
515.83	V	Peak	11.84	23.07	34.91	46.00	-11.09
813.33	V	Peak	13.22	26.44	39.66	46.00	-6.34
841.33	V	Peak	11.26	27.08	38.34	46.00	-7.66
868.17	V	Peak	12.53	27.60	40.13	46.00	-5.87
949.83	V	Peak	10.28	28.86	39.14	46.00	-6.86
27.15	V	Peak	58.17	3.75	61.92	80.00	-18.08
462.17	H	Peak	24.83	20.74	45.57	46.00	-0.43
706.00	H	Peak	17.92	25.78	43.70	46.00	-2.30
732.83	H	Peak	17.86	25.84	43.70	46.00	-2.30
786.50	H	Peak	18.18	26.07	44.25	46.00	-1.75
813.33	H	Peak	18.89	26.44	45.33	46.00	-0.67
868.17	H	Peak	15.69	27.60	43.29	46.00	-2.71

**Notes:**

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.



## 7.3 POWERLINE CONDUCTED EMISSIONS

### LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

### MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCS30	847793/012	12/20/2003
LISN	R&S	ESH2-Z5	843285/010	12/15/2003
LISN	EMCO	3825/2	9003-1628	07/25/2004

*Remark: Each piece of equipment is scheduled for calibration once a year.*



### **Test Configuration**

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
2. The EUT was plug-in the host PC via USB port. The host PC system was placed on the center of the back edge on the test table. The peripherals like modem, monitor printer, K/B, and mouse were placed on the side of the host PC system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The keyboard was placed directly in the front of the monitor, flushed with the front tabletop. The mouse was placed next to the Keyboard, flushed with the back of keyboard.
4. The spacing between the peripherals was 10 centimeters.
5. External I/O cables were draped along the edge of the test table and bundle when necessary.
6. The host PC system was connected with 110Vac/60Hz power source.

*The EUT is set to transmit in a continuous mode.*

### **Test Procedure**

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.



## TEST RESULTS

### Test Data

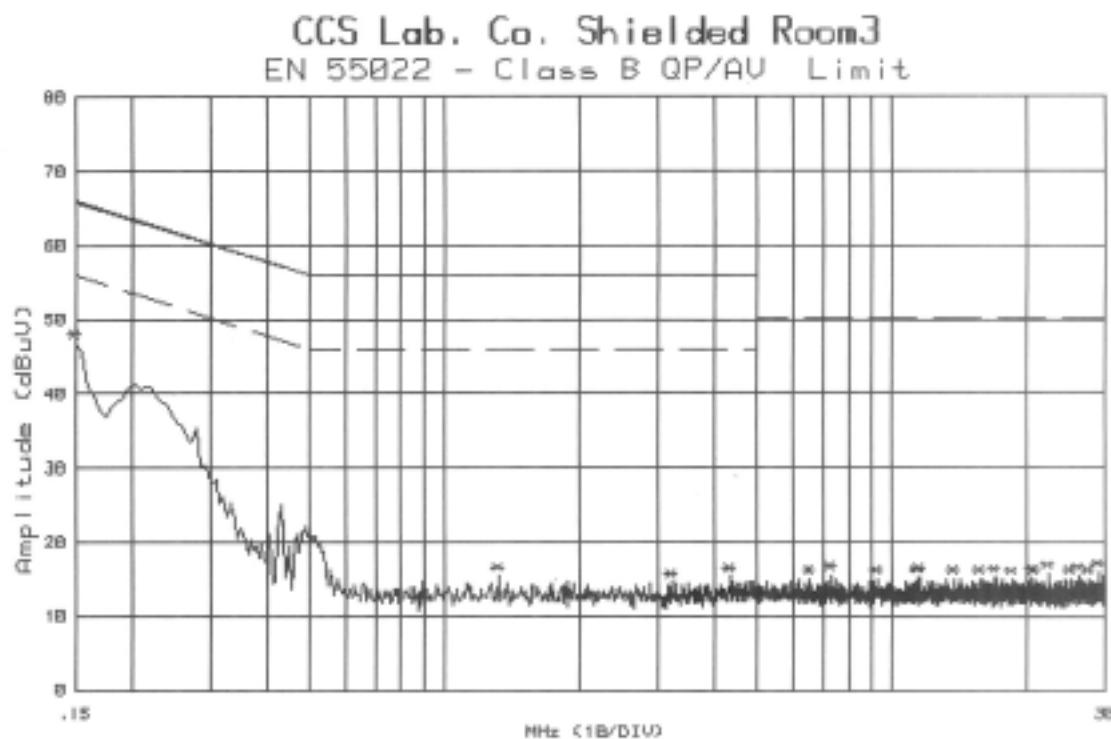
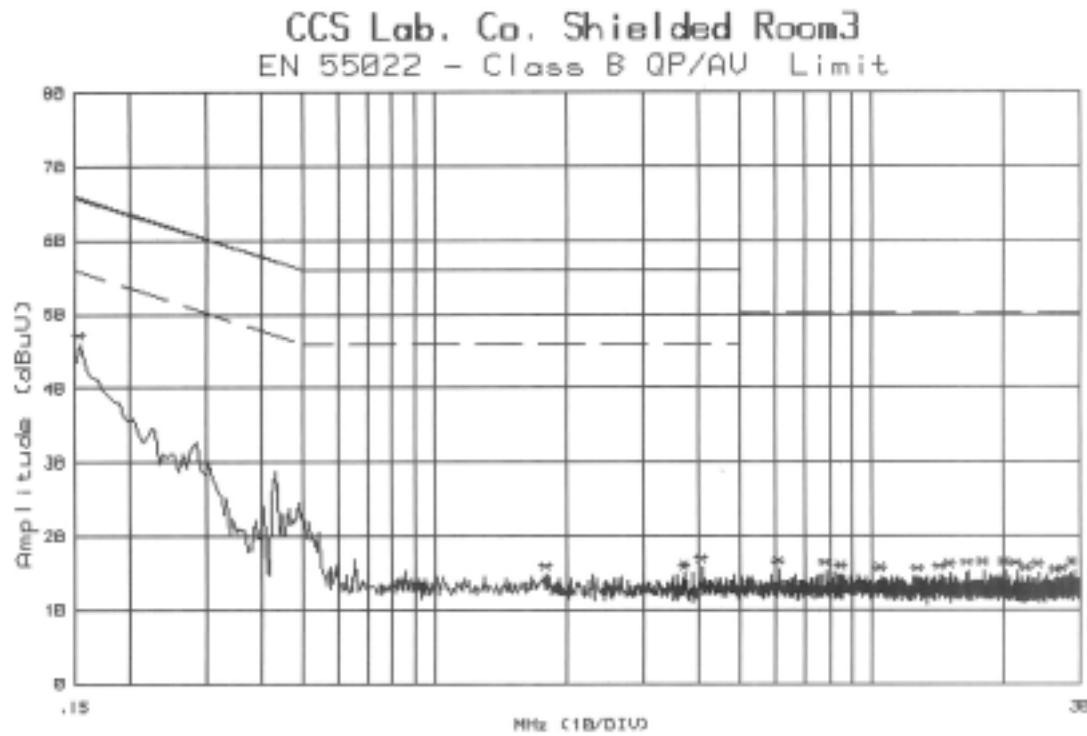
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

**Operation Mode:** TX + RX mode      **Test Date:** October 14, 2003  
**Temperature:** 28°C      **Humidity:** 60% RH  
**Tested by:** Roy

Freq. (MHz)	Q.P. Raw (dBuV)	Avg Raw (dBuV)	Q.P. Limit (dBuV)	Avg Limit (dBuV)	Q.P. Margin (dB)	Avg Margin (dB)	Note
0.150	46.80	---	66.00	56.00	-19.20	---	L1
1.320	15.50	---	56.00	46.00	-40.50	---	L1
3.220	14.60	---	56.00	46.00	-41.40	---	L1
4.350	15.40	---	56.00	46.00	-40.60	---	L1
6.560	15.10	---	60.00	50.00	-44.90	---	L1
7.290	15.60	---	60.00	50.00	-44.40	---	L1
<hr/>							
0.155	45.90	---	65.73	55.73	-19.83	---	L2
1.800	14.70	---	56.00	46.00	-41.30	---	L2
3.750	14.80	---	56.00	46.00	-41.20	---	L2
4.110	15.80	---	56.00	46.00	-40.20	---	L2
6.150	15.40	---	60.00	50.00	-44.60	---	L2
7.880	15.30	---	60.00	50.00	-44.70	---	L2

### Note:

1. The measuring frequencies range between 0.15 MHz and 30 MHz.
2. The emissions measured in the frequency range between 0.15 MHz and 30MHz were made with an instrument using Quasi-peak detector and Average detector.
3. “---” denotes the emission level was or more than 2dB below the Average limit, and no re-check was made.
4. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10KHz. The IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9KHz.
5. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

**Test Plot*****Conducted emissions (Line 1)******Conducted emissions (Line 2)***

**APPENDIX 1**  
**PHOTOGRPHS OF TEST SETUP**  
**Radiated Emission Set up Photos**

