

TIMCO ENGINEERING INC.

849 NW State Road 45

Newberry, Florida 32669

<http://www.timcoengr.com>

888.472.2424 F 352.472.2030 email: tei@timcoengr.com

FCC Test Report

Product Name: 2-WAY PAGER

FCC ID: LEAABN25ARA00

Applicant:

**UNICATION CO., LTD. CO., LTD.
5F., NO. 6, WU-KUNG 5 ROAD
HSINCHUANG CITY, TAIPEI, TAIWAN R.O.C.**

APPLICANT: UNICATION CO., LTD.

FCC ID: LEAABN25ARA00

REPORT #: U\UNICATION CO., LTD.\203AUT6\203AUT6TestReport.doc

COVER SHEET

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TEST REPORT:

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MODULATION CHARACTERISTICS AND OCCUPIED BANDWIDTH
- 3.....FIELD STRENGTH OF SPURIOUS EMISSIONS
- 4.....METHOD OF MEASURING RADIATED SPURIOUS EMISISONS
- 5.....FREQUENCY STABILITY
- 6.....TEST EQUIPMENT LIST

EXHIBITS INCLUDING:

CONFIDENTIALITY REQUEST LETTER
BLOCK DIAGRAM
SCHEMATIC
PARTS LIST
USERS MANUAL
LABEL SAMPLE
LABEL LOCATION
EXTERNAL PHOTOGRAPHS
INTERNAL PHOTOGRAPHS
ALIGNMENT PROCEDURE
OPERATIONAL DESCRIPTION
TEST SET UP PHOTOGRAPH
SAR REPORT

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GENERAL INFORMATION

2.1033(c)(1)(2) UNICATION CO., LTD. will sell the FCC ID: LEAABN25ARA00, Two-Way Pager for use under FCC RULES PART 24.

2.1033(c) TECHNICAL DESCRIPTION

2.1033 (3) The User Manual is included in the exhibits.

2.1033 (4) Type of Emission: 10K0F1D

$$B_n = 2M + 2D$$

$$M = 2400$$

$$D = 2400$$

$$B_n = 2(2400) + 2(2400) = 9.6 \text{ kHz}$$

2.1033 (5) Frequency Range: 901-902 MHz

(6) Power Range and Controls: There are NO user Power controls.

(7) Maximum Output Power Rating: 0.29 Watts

(8) DC Voltages and Current into Final Amplifier:
INPUT POWER: $(4.2\text{VDC})(850\text{mA}) = 3.57 \text{ Watts}$

(9) Tune-up procedure. The tune-up procedure is given in the exhibits

(10) Complete Circuit Diagrams: Description of all circuitry and devices provided for determining and stabilizing frequency is included in the circuit description in the instruction manual. The circuit diagram and block diagram are included in the exhibits.

2.1033(c)(11) A photograph or drawing of the equipment identification label is shown in the Exhibits.

2.1033(c)(12) Photographs of the equipment of sufficient clarity to reveal equipment construction and layout and label location, are shown in the Exhibits.

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2.1033(c)(14) Data required for 2.1046 to 2.1057 See Below

Power Output - Effective Radiated Power - ERP

Method of measurement:

This test was conducted per TIA/EIA STANDARD 603 using the substitution method.

Tuned Frequency (MHz)	Polarization (H/V)	ERP (W)
901.5	H	0.29

2.1047(a) **Voice Modulation characteristics:**
NOT APPLICABLE

2.1047 **Audio Low Pass Filter**
This UUT does not have a low pass filter.

2.1049 **Occupied bandwidth: 99% power bandwidth:**

SEE 203AUT6 TestReport2_Freq Stability and OCC BW.pdf

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2.1053 **Field strength of spurious emissions:**

NAME OF TEST: RADIATED SPURIOUS EMISSIONS

REQUIREMENTS: Emissions must be $43 + 10\log(P_o)$ dB below the
mean power output of the transmitter.

$$43 + 10\log(0.29) = 37.62 \text{ dB}$$

TEST DATA:

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
901.50	H	0
1803.00	V	60.3
2704.50	V	59.77
3606.00	V	74.38
4507.50	V	69.55
5409.00	V	76.9
6310.50	V	58.33
7212.00	V	58.9
8113.50	V	71.34
9015.00	V	69.17

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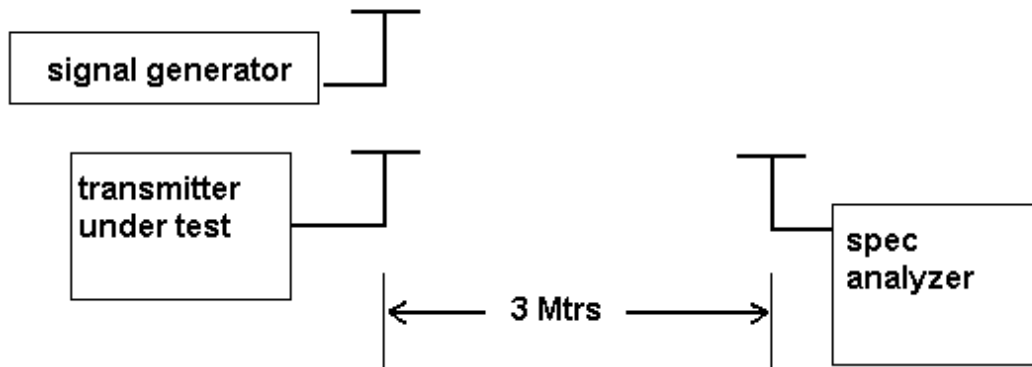
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Method of Measuring Radiated Spurious Emissions



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2.1055

Frequency stability:

Measurement techniques have been in accordance with
TIA/EIA STD 603-2003.

SEE 203AUT6 TestReport2_Freq Stability and OCC BW.pdf

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EMC Equipment List

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
3-Meter OATS	TEI	N/A	N/A	Listed 1/11/06	1/10/09
Biconnical Antenna	Eaton	94455-1	1057	CAL 12/12/05	12/12/07
Biconnical Antenna	Eaton	94455-1	1096	CAL 8/17/04	8/17/06
Biconnical Antenna	Electro-Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Blue Tower Quasi-Peak Adapter	HP	85650A	2811A01279	CAL 4/13/05	4/13/07
Blue Tower RF	HP	85685A	2926A00983	CAL 9/5/05	9/5/07
Preselector					
Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/13/05	4/13/07
LISN	Electro-Metrics	ANS-25/2	2604	CAL 8/27/04	8/27/06
LISN	Electro-Metrics	EM-7820	2682	CAL 4/28/05	4/28/07
Log-Periodic Antenna	Eaton	96005	1243	CAL 12/14/05	12/14/07

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