Standards Council of Canada
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Scope of Accreditation 75

Conseil canadien des normes
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TM

Test Report:	4W08005.4 Issue 2
Applicant:	Kolombo Technologies Ltd 255 Fotin Suite 80 Vanier, Québec G1M 3M2
Equipment Under Test: (EUT)	K-2000 128.5KHz Low PowerTransmitter
In Accordance With:	**FCC Part 15, Subpart C, 15.209**
FCC I.D. :	RYAK2ØØØ1ØØ
Tested By:	Nemko Canada Inc. 303 River Road, R.R. 5 Ottawa, Ontario K1V 1H2
Authorized By:	Sim Jagpal, Resource Manager
Date:	23 March 2005
Total Number of Pages:	10

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Section 1. Summary Of Test Results

General

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15, Subpart C for low power devices. All tests were conducted using measurement procedure ANSI C63.4-1992. Radiated Emissions were made on an open area test site. A description of the test facility in on file with the FCC.

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.
See " Summary of Test Data".

TESTED BY: Daxesh Thakker, Wireless Test Engineer DATE: _March 30, 2004

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Nemko Canada Inc., a testing laboratory, is accredited by the Standards Council of Canada.
The tests included in this report are within the scope of this accreditation

Summary Of Test Data

Name Of Test	Para. No.	Result
Powerline Conducted Emissions	15.207	N/A
Radiated Emissions	15.209	Complies

Footnotes For N/A's:
• This device is powered by a 12 Vdc battery.

Test Conditions:

Indoor	Temperature:	24 °C
	Humidity:	23 %
Outdoor	Temperature:	16 °C
	Humidity:	36 %

Section 2. General Equipment Specification

Manufacturer:	M2S Electronics 2855 rue De Celles Québec, Québec G2C 1K7 Canada
Model No.:	K-2000
Serial No.:	None
Date Received In Laboratory:	19 March 2004
Nemko Identification No.:	#2, #3
Frequency:	128.5 kHz Fixed
Modulation:	Pulsed signal, no modulation and no data
Emission Designator:	P0N

Section 3. Radiated Emissions

Para. No.: 15.209

Test Performed By: Daxesh Thakker	**Date of Test:** 29 March 2004

Minimum Standard:

Fundamental (MHz)	Field Strength (μV/m)	Field Strength (dBμV)
0.009 - 0.490	2400/F(kHz) @ 300m	—
0.490 - 1.705	24000/F(kHz) @ 30m	—
1.705 - 30	30 @ 30m	—
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

Test Results: Complies.

Measurement Data: See attached table.

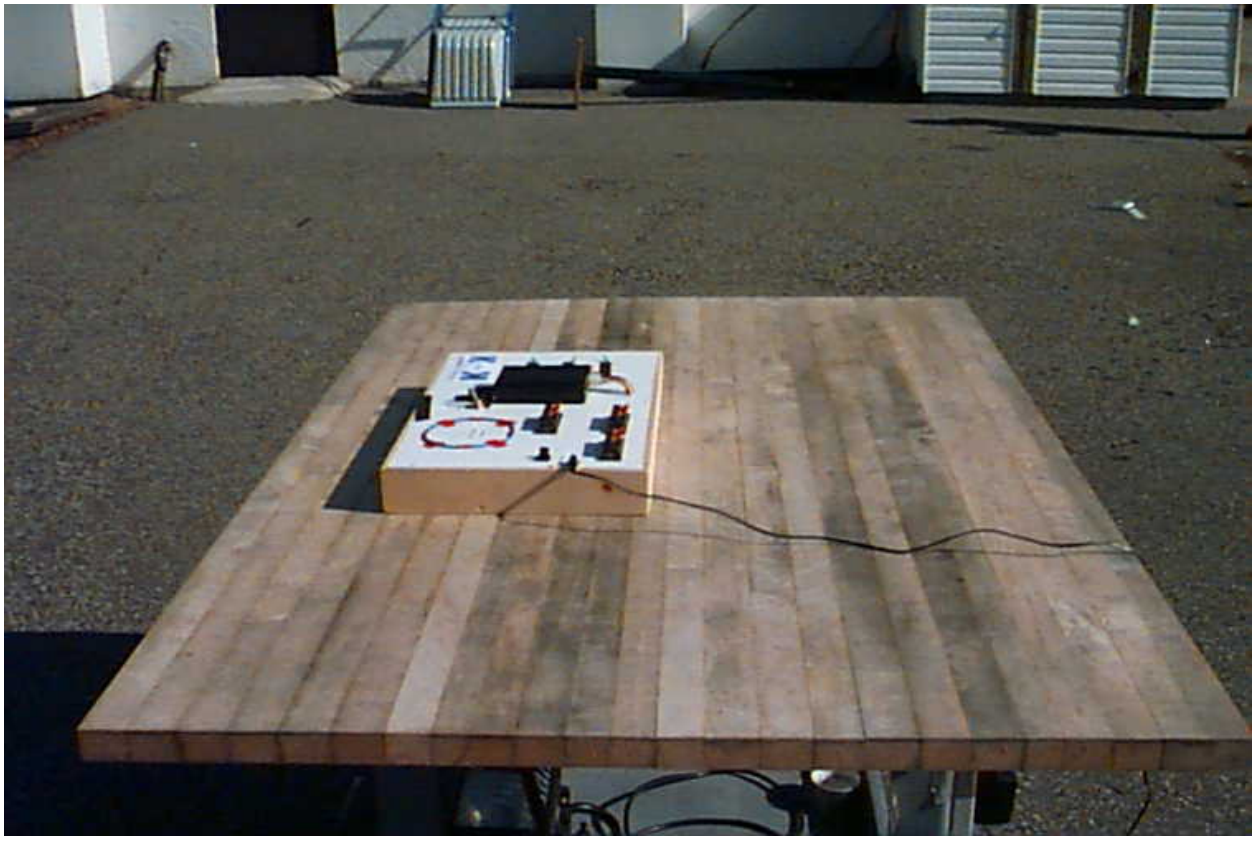
Test Data - Radiated Emissions

Frequency of Emission (MHz)	Received Signal (dBuV/m@3m)	Extrapolated Signal (dBuV/m@300m)	Limit (dBuV/m@300m)	Margin (dB)
0.1285	68.5	-11.5	25.42	36.92
0.257	51.2	-28.8	19.4	48.2
0.3855	40	-40	15.87	55.87
Frequency of Emission (MHz)	**Received Signal (dBuV/m@3m)**	**Extrapolated Signal (dBuV/m@30m)**	**Limit (dBuV/m@30m)**	**Margin (dB)**
0.514	33	-7	33.4	40.4

Notes:
Field strength emissions were measured at 3 m due to the very low power of the device.
All emissions measured were extrapolated using 40 dB/decade extrapolation factor.

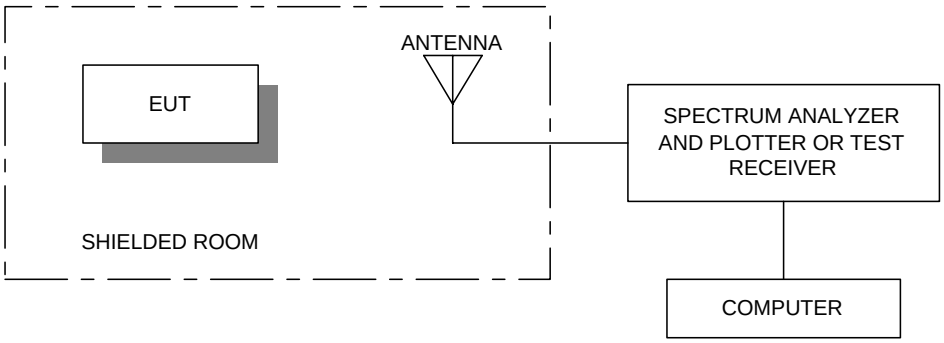
All harmonic and spurious emissions were searched up to the 10^{th} harmonic.
The EUT was tested on all three orthogonal axes and the worst case data presented here.
The loop antenna was rotated 0 to 360 degrees to search highest emissions.
Measurement equipment setup was 200Hz peak detector for measurements below 30MHz.
The EUT was tested with new fresh battery.

Radiated Emissions- Photographs



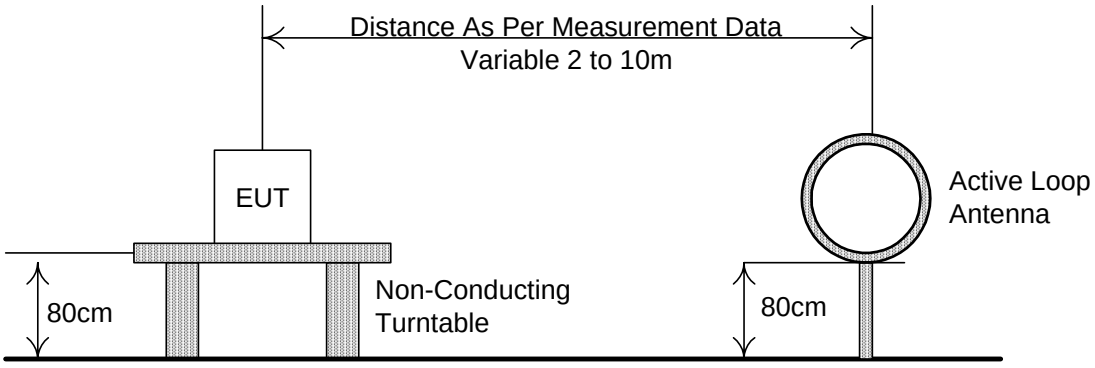
Section 4. Block Diagrams

Radiated Prescan



Test Site For Radiated Emissions

Measurement distance at 3m, fundamental and harmonics, due to the very low power of this device.



Section 5. Test Equipment List

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer	Hewlett Packard	8564E	FA001367	May. 13/03	May. 13/04
1 Year	Receiver	Rohde & Schwarz	ESH3	892473/002	Jan. 14/04	Jan. 14/05
1 Year	Active Loop Antenna	Rohde & Schwarz	HFH2-Z2	FA000631	May. 12/03	May. 12/04

NA: Not Applicable
NCR: No Cal Required
COU: CAL On Use