Test Report:	1W03826
Applicant:	Digital Security Controls Ltd. 3301 Langstaff Road Vaughan, Ontario L4K 4L2
Equipment Under Test: (EUT)	PC5102, UA269
In Accordance With:	FCC Part 15, Subpart B Radio Receivers
Tested By:	Nemko Canada Inc. (Formerly KTL Ottawa Inc.) 3325 River Road, R.R. 5 Ottawa, Ontario K1V 1H2
Authorized By:	
	G. Westwell, Technologist
Date:	
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 B. Measurement procedure ANSI C63.4-1992 was used for all tests. Radiated Emissions were measured on an open area test site.

	New Submission		Production Unit
	Class II Permissive Change		Pre-Production Unit
C Y Y	Equipment Code		
Т	THIS TEST REPORT RELATES ONLY T	O THE I	ΓΕΜ(S) TESTED.
THE FOLLO	WING DEVIATIONS FROM, ADDITIONS T SPECIFICATIONS HAVE BE See " Summary of Test	EEN MAD	
	1	®	

NVLAP LAB CODE: 100351-0

_____ DATE: __ TESTED BY: Russell Grant, Wireless Group Manager

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This report applies only to the items tested.

Nemko Canada Inc.

FCC PART 15, SUBPART B RADIO RECEIVERS PROJECT NO.: 1W03826

EQUIPMENT: PC5102, UA269

Summary Of Test Data

Name Of Test	Para. No.	Results
Antenna Conducted Emissions	15.111	N/A
Radiated Emissions	15.109	Complies
Powerline Conducted Emissions	15.107	N/A

Footnotes For N/A's: Integral Antenna

Batteries

Nemko Canada Inc.

FCC PART 15, SUBPART B RADIO RECEIVERS PROJECT NO.: 1W03826

EQUIPMENT: PC5102, UA269

Section 2. General Equipment Specification

Date Received In Laboratory: April 16, 2001

Nemko Identification No.: Item #1

Frequency Range: 433 MHz

Number of Channels: 1

Nemko Canada Inc.

FCC PART 15, SUBPART B RADIO RECEIVERS PROJECT NO.: 1W03826

EQUIPMENT: PC5102, UA269

Section 3. Radiated Emissions

Para. No.: 15.109(a)

Test Performed By: Russell Grant Date of Test: April 16, 2001

Minimum Standard:

Frequency(MHz)	Field Strength			
	(dBµV/m @ 3m)			
30 - 88	40.0			
88 - 216	43.5			
216 - 960	46.0			
Above 960	54.0			

Test Results: Complies. The worst-case emission level is 40.0 dBµV/m @ 3m at

1692.88 MHz. This is 14.0 dB below the specification limit.

Measurement Data: See attached table.

For super-regenerative receivers the receiver is cohered using a signal generator and dipole antenna.

Handheld equipment and equipment not designed to be mounted in any fixed orientation, the EUT is tested in three orthogonal axis to obtain worst case results.

Test Data - Radiated Emissions

Test Dist			ange: Tower	Recei ESV		RBW(kHz): 120/1000		Detector: Peak	
Freq. (MHz)	Ant. *	Pol. (V/H)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
423.22	E/D4	V	4.0	24.7			28.7	46.0	17.3
423.22	E/D4	Н	1.2	24.7			25.9	46.0	20.1
846.44	E/D4	V	-9.5	31.3			21.8	46.0	24.2
846.44	E/D4	Н	-7.7	31.3			23.6	46.0	22.4
1269.66	Hrn2	V	53.0	30.5	-48.0		35.5	54.0	18.5
1269.66	Hrn2	Н	54.0	30.5	-48.0		36.5	54.0	17.5
1692.88	Hrn2	V	56.0	32.0	-48.0		40.0	54.0	14.0
1692.88	Hrn2	Н	53.0	32.0	-48.0		37.0	54.0	17.0

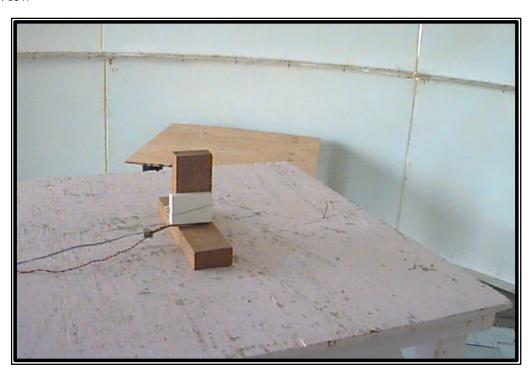
Notes:

B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole

- * Re-Measured Using Dipole Antenna. () Denotes Failing Emission Level.
 - (1) 120 kHz, Q-Peak,
 - (2) 10 kHz, Peak,
 - (3) 100 kHz RGW, 300 kHz VBW, Peak,
 - (4) 300 kHz RBW, 1 MHz VBW, Peak,
 - (5) 1 MHz RBW, 3 MHz VBW, Peak,
 - (6) 1 MHz RBW, 10 Hz VBW, Peak
- N.D. = Not Detected

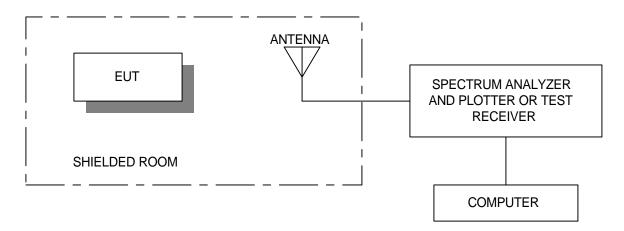
Radiated Photographs

Front View

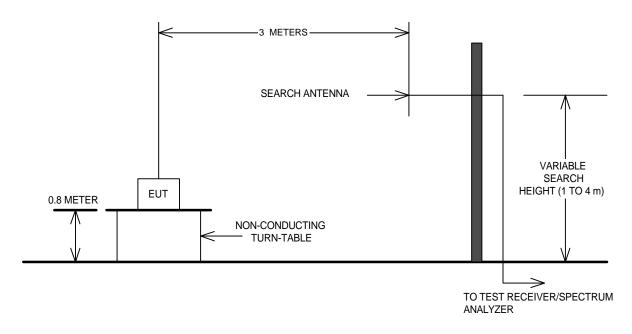


Section 4. Block Diagrams

Radiated Prescan



Outdoor Test Site For Radiated Emissions



The spectrum was searched up to the 10th harmonic of the fundamental frequency of operation.

Section 5. Test Equipment List

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer	Hewlett Packard	8565E	FA000981	June 16/00	June 16/01
EX	Receiver	Rohde & Schwarz	ESVP	892661/014	April 5/00	July 5/5401
1 Year	Horn Antenna	EMCO #2	3115	4336	Dec. 1/00	Dec. 1/01
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	Aug. 10/00	Aug. 10/01

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

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