



Test Report: 6W59817.4

Applicant: Kinectrics Inc
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Toronto, Ontario
M8Z 6C4
Canada

Apparatus: Handheld Signal Strength Meter (HSM)

FCC ID: TY3-HSMV1

In Accordance With: FCC Part 15 Subpart B, 15.107 and 15.109
Unintentional Radiators

Tested By: Nemko Canada Inc.
303 River Road
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Authorized By:

A handwritten signature in blue ink, appearing to read 'Roman Kuleba'.

Roman Kuleba, Wireless Test Specialist

Date: March 29, 2006

Total Number of Pages: 12

Report Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart B. Radiated tests were conducted in accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

The assessment summary is as follows:

Apparatus Assessed:	Handheld Signal Strength Meter (HSM)
Specification:	FCC Part 15 Subpart B, 15.107 and 15.109
Compliance Status:	Complies
Exclusions:	None
Non-compliances:	None
Report Release History:	Original Release

Author: Mac Huang

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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TABLE OF CONTENTS

Report Summary.....	2
Section 1 : Equipment Under Test.....	4
1.1 Product Identification	4
1.2 Samples Submitted for Assessment.....	4
1.3 Theory of Operation	4
1.4 Technical Specifications of the EUT	5
1.5 Block Diagram of the EUT.....	5
Section 2 : Test Conditions.....	6
2.1 Specifications	6
2.2 Deviations From Laboratory Test Procedures	6
2.3 Test Environment	6
2.4 Test Equipment.....	6
Section 3 : Observations	7
3.1 Modifications Performed During Assessment	7
3.2 Record Of Technical Judgements	7
3.3 EUT Parameters Affecting Compliance	7
3.4 Test Deleted.....	7
3.5 Additional Observations.....	7
Section 4 : Results Summary	8
4.1 FCC Part 15 Subpart B: Test Results	9
Appendix A : Test Results.....	10
Clause 15.109(a) Radiated Emissions.....	10
Appendix B : Setup Photographs	11
Appendix C : Block Diagram of Test Setups.....	12

Section 1 : Equipment Under Test

1.1 Product Identification

The Equipment Under Test was identified as follows:
Item #3, HSM-003

1.2 Samples Submitted for Assessment

The following samples of the apparatus have been submitted for type assessment:

Sample No.	Description	Serial No.
#3	Handheld Signal Strength Meter (HSM)	HSM-003

The first samples were received on: February 06, 2006

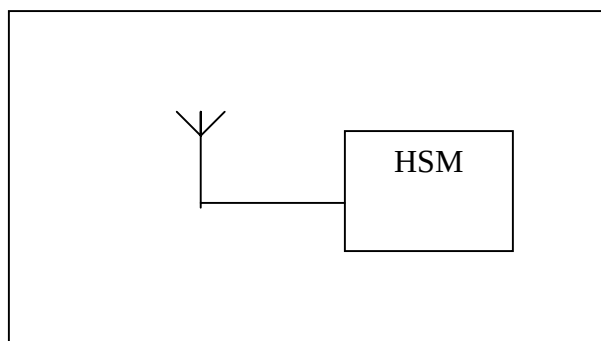
1.3 Theory of Operation

The handheld receiver consists of a battery-powered GSC that only utilizes the electronics specific to the measurement of signal strength. The output of the electronics is tied to two front panel meters which can be calibrated to display the relative strength of the received RST signal on a scale between 0 – 100. the two meters (one is an analogue “meter” and the other a numeric display) are wired in parallel and are functionally equivalent.

1.4 Technical Specifications of the EUT

Manufacturer:	Kinectrics Inc
Receive Frequency:	916.5 MHz
Receiver Type:	Detachable 0 dB whip
Antenna Data:	SMA
Power Source:	9 V DC battery

1.5 Block Diagram of the EUT



Section 2 : Test Conditions

2.1 Specifications

The apparatus was assessed against the following specifications:

FCC Part 15 Subpart B, 15.107 and 15.109
Unintentional Radiators

2.2 Deviations From Laboratory Test Procedures

No deviations were made from laboratory test procedures.

2.3 Test Environment

All tests were performed under the following environmental conditions:

Temperature range : 15 – 30 °C
Humidity range : 20 - 75 %
Pressure range : 86 - 106 kPa
Power supply range : +/- 5% of rated voltages

2.4 Test Equipment

Equipment	Manufacturer	Model No.	Asset/Serial No.	Next Cal.
Spectrum Analyzer	Hewlett-Packard	8566B	FA001309	May 18/06
Spectrum Analyzer Display	Hewlett-Packard	85662A	FA001309	May 18/06
1.0 – 2.0 GHz Amplifier	JCA	12-400	FA001498	July 14/06
2.0 – 4.0 GHz Amplifier	JCA	24-600	FA001496	July 14/06
4.0 – 8.0 GHz Amplifier	JCA	48-600	FA001497	July 14/06
Receiver	Rohde & Schwarz	ESVS-30	FA001437	July 27/06
Spectrum Analyzer	Rohde & Schwarz	FSU	FA001877	May 17/06
LISN	EMCO	4825/2	FA001545	Jan. 30/07
Bilog	Schaffner	CBL6112B	FA001504	NCR
Log Periodic Antenna #1	EMCO	LPA-25	FA000477	Aug. 29/06
Biconical (1) Antenna	EMCO	3109	FA000805	April 22/06
Horn Antenna #1	EMCO	3115	FA000649	Jan. 12/07

Section 3 : Observations

3.1 Modifications Performed During Assessment

No modifications were performed during assessment.

3.2 Record Of Technical Judgements

No technical judgements were made during the assessment.

3.3 EUT Parameters Affecting Compliance

The user of the apparatus could not alter parameters that would affect compliance.

3.4 Test Deleted

No Tests were deleted from this assessment.

3.5 Additional Observations

There were no additional observations made during this assessment.

Section 4 : Results Summary

This section contains the following:

FCC Part 15 Subpart B : Test Results

The column headed 'Required' indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

- N No : not applicable / not relevant.
- Y Yes : Mandatory i.e. the apparatus shall conform to these tests.
- N/T Not Tested, mandatory but not assessed. (See section 3.4 Test deleted)

The results contained in this section are representative of the operation of the apparatus as originally submitted.

4.1 FCC Part 15 Subpart B: Test Results

Part 15	Test Description	Required	Result
15.107(a) 15.109(a)	Conducted Emissions for Class B Radiated Emissions for Class B	N Y	PASS

Appendix A : Test Results

Clause 15.109(a) Radiated Emissions

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 of Emission (MHz)	Field Strength (microvoltsmeter)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Test Conditions:

Sample Number:	#3	Temperature:	21
Date:	February 16, 2006	Humidity:	25
Modification State:	None	Tester:	Mac Huang
		Laboratory:	Ottawa

Test Results: PASS

No spurious signal was found within 20 dB below the limits.

Additional Observations:

The Spectrum was searched from 30MHz to the 10th Harmonic (9.16GHz).

The EUT was measured on three orthogonal axis.

Measurement equipment setup was 120kHz Quasi-peak detector for measurements below 1GHz and 1MHz RBW/VBW peak detector above 1GHz.

All Measurements were performed at 3 meters.

Appendix B : Setup Photographs

Spurious Emissions Setup:



Appendix C : Block Diagram of Test Setups

Test Site For Radiated Emissions

