

KTL Test Report: 0R02313.1

Applicant: Audisoft Technologie
788 Rue Louis Normandin
Boucherville, Quebec
J4B 3X3

Equipment Under Test: Transmitter
(E.U.T.)

In Accordance With: FCC Part 15, Subpart C, 15.237 & 15.249

Tested By: KTL Ottawa Inc.
3325 River Road, R.R. 5
Ottawa, Ontario K1V 1H2

Authorized By:



G. Westwell, Technologist

Date: October 24, 2000

Total Number of Pages: 14

Authorized Copy: Soft Copy

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EQUIPMENT: Transmitter

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 15.249. All tests were conducted using measurement procedure ANSI C63.4-1992. Radiated Emissions were made on an open area test site.



New Submission



Production Unit



Class II Permissive Change



Pre-Production Unit



Equipment Code

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".



NVLAP LAB CODE: 100351-0

A handwritten signature in blue ink, which appears to read "Russell Grant", is written over the printed name.

TESTED BY:

Russell Grant, Wireless Group Manager

DATE: October 24, 2000

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This report applies only to the items tested.

EQUIPMENT: Transmitter

Summary Of Test Data

Name Of Test	Para. No.	Result
Conducted Emissions	15.207	N/A
Radiated Emissions	15.237, 15.249	Complies

Footnotes For N/A's:

Batteries

EQUIPMENT: Transmitter

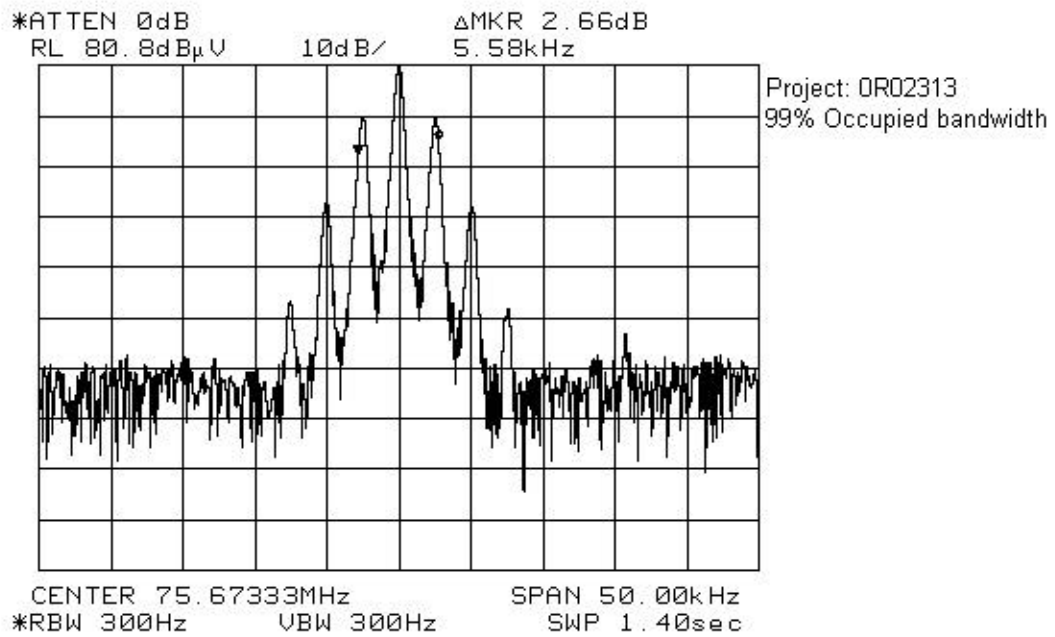
Section 2. General Equipment Specification**Manufacturer:** Audisoft Technologies**Model No.:** Transmitter**Date Received In Laboratory:** October 19, 2000**KTL Identification No.:** Item # 41**Frequency Range:** Audio: 72.0-73.0 MHz, 74.6-74.8 MHz, 75.2-76.0 MHz

Video: 906.0 MHz, 914.9 MHz Fixed

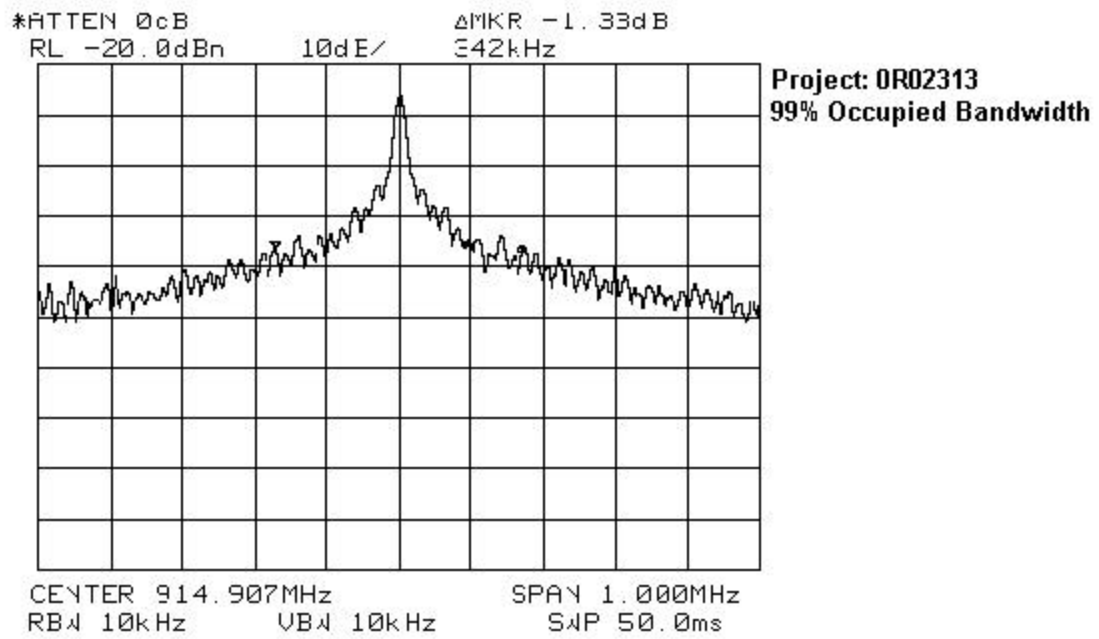
Tunable Bands: 3 + 2 Fixed Frequencies**Emission Designator:** 5K60F3E, 340KA3F**Integral Antenna****Yes**
☒**No**
☐

***Note:** If antenna is not integral to transmitter explain method of attachment and type of unique connector:*

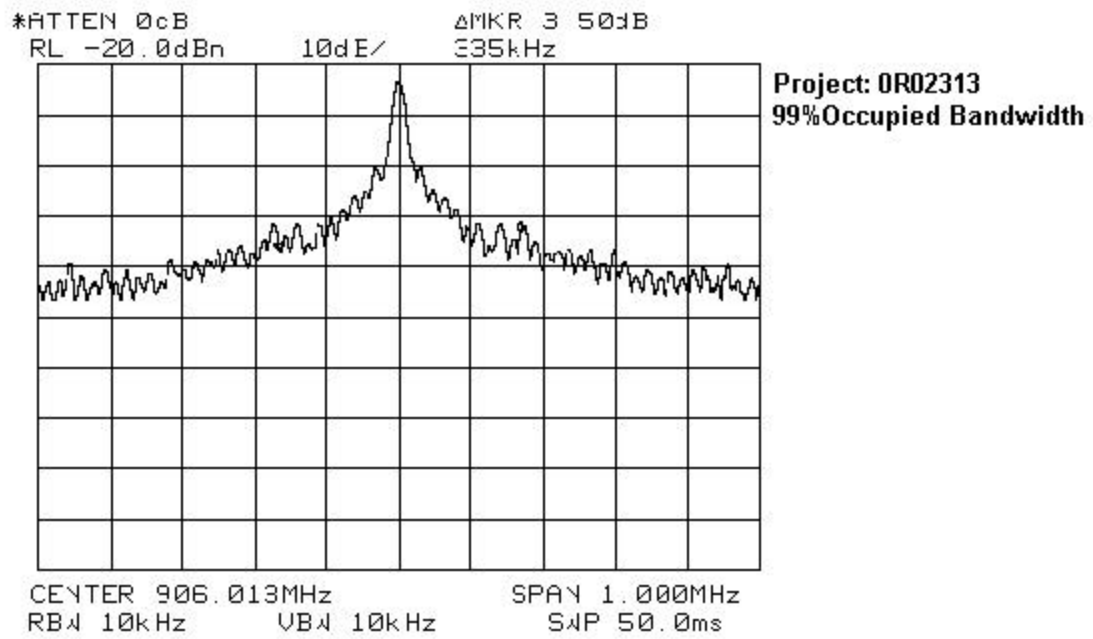
EQUIPMENT: Transmitter



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Section 3. Radiated Emissions**Para. No.: 15.237, 15.249**

Test Performed By: Russell Grant	Date of Test: October 19, 2000
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Minimum Standard: Para no. 15.237 & 15.249

The field strengths shall not exceed the following:

Fundamental (MHz)	Field Strength (mV/m)	Field Strength (dBμV)	Harmonic (mV/m)	Harmonic (dBμV)
902-928	50	94	0.5	54
72-76	80	98.1	1.5	63.5

Test Results: Complies. The worst-case emission level is 52.5 dB μ V/m @ 3m at 1812 MHz. This is 1.5 dB below the specification limit.**Measurement Data:** See attached table.**Maximizing Emission Levels:**

For hand held equipment or equipment that may be mounted in a variety of positions, the E.U.T. was tested on three orthogonal axis to determine orientation of worst-case emission levels.

*EQUIPMENT: Transmitter***Test Data - Radiated Emissions**

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP		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)
72.124	B/C1	V	82.5	9.2			91.7	98.1	6.4
72.124	B/C1	H	79.2	9.2			88.4	98.1	9.7
144.248	B/C1	V	28.2	13.8			42.0	63.5	21.5
144.248	B/C1	H	31.8	13.8			45.6	63.5	17.9
216.372	B/C1	V	24.2	17.0			41.2	63.5	22.3
216.372	B/C1	H	28.4	17.0			45.4	63.5	18.1
75.676	B/C1	V	83.0	8.2			91.2	98.1	6.9
75.676	B/C1	H	78.0	8.2			86.2	98.1	11.9
151.35	B/C1	V	32.6	13.9			46.5	63.5	17.0
151.35	B/C1	H	36.0	13.9			49.9	63.5	13.6
227.026	B/C1	V	14.4	17.5			31.9	63.5	31.6
227.026	B/C1	H	21.7	17.5			39.2	63.5	24.3
906.0	E/D4	V	56.8	32.5			89.3	94.0	4.7
906.0	E/D4	H	54.1	32.5			86.6	94.0	7.4
1812.0	Hrn2	V	67.5	33.1	-48.1		52.5	54.0	1.5
1812.0	Hrn2	H	64.5	33.1	-48.1		49.5	54.0	4.5
2718.0	Hrn2	V	63.8	38.0	-60.0		41.8	54.0	12.2
2718.0	Hrn2	H	60.2	38.0	-60.0		38.2	54.0	15.8
3624.0	Hrn2	V	56.2	41.3	-57.4		40.1	54.0	13.9
3624.0	Hrn2	H	56.5	41.3	-57.4		40.4	54.0	13.6
4530.0	Hrn2	V	59.0	43.6	-55.5		47.1	54.0	6.9
4530.0	Hrn2	H	58.8	43.6	-55.5		46.9	54.0	7.1
914.9	E/D4	V	56.2	32.5			88.7	94.0	5.3
914.9	E/D4	H	50.0	32.5			82.5	94.0	11.5
4574.4	Hrn2	V	47.8	43.8	-55.5		36.1	54.0	17.9
4574.4	Hrn2	H	49.2	43.8	-55.5		37.5	54.0	16.5
5489.3	Hrn2	V	35.2	46.9	-53.6		28.5	54.0	25.5
5489.3	Hrn2	H	39.0	46.9	-53.6		32.3	54.0	21.7
1829.9	Hrn2	V	65.2	33.2	-48.1		50.3	54.0	3.7
1829.9	Hrn2	H	59.8	33.2	-48.1		44.9	54.0	9.1
2744.6	Hrn2	V	69.7	38.1	-60.0		47.8	54.0	6.2
2744.6	Hrn2	H	72.2	38.1	-60.0		50.3	54.0	3.7
3659.5	Hrn2	V	54.5	41.4	-57.6		38.3	54.0	15.7
3659.5	Hrn2	H	58.2	41.4	-57.6		42.0	54.0	12.0

Notes:

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

* Re-measured using dipole antenna.

** Includes cable loss when amplifier is not used.

*** Includes cable loss.

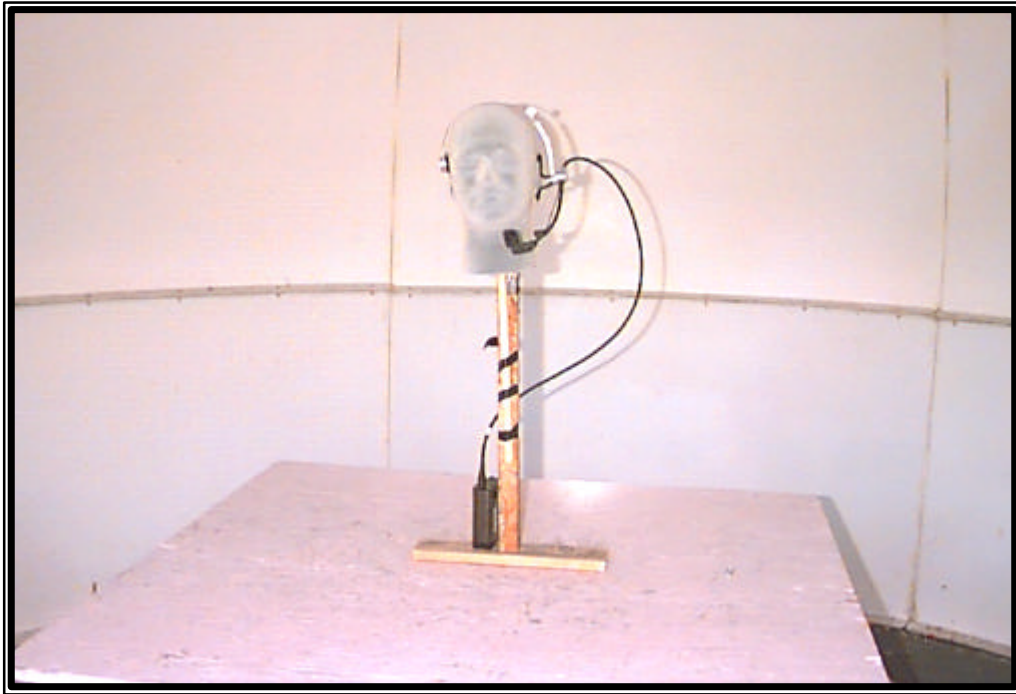
() Denotes failing emission level.

N.D. = Not Detected

EQUIPMENT: Transmitter

Radiated Photographs

Front View



EQUIPMENT: Transmitter

Section 4. 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
1 Year	Receiver	Rohde & Schwarz	ESVP	892661/014	April 5/00	April 5/01
1 Year	Horn Antenna	EMCO #2	3115	4336	Nov. 11/99	Nov. 11/00
1 Year	Dipole Antenna Set	EMCO #2	3121C	FA001349	June 27/00	June 27/01
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	Aug. 4/99	Aug. 4/00

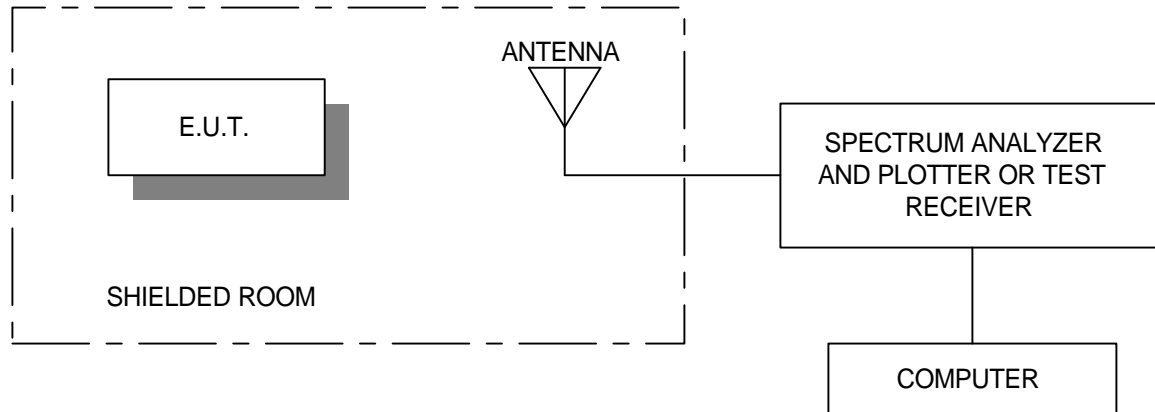
NA: Not Applicable
NCR: No Cal Required
COU: CAL On Use

EQUIPMENT: Transmitter

Annex A
Test Diagrams

EQUIPMENT: Transmitter

Radiated Prescan



Test Site For Radiated Emissions

