KTL Test Report:	0R03227
Applicant:	EXI Wireless Systems Inc. Suite 100 – 13551 Commerce Pk. Richmond, BC V6V 2L1
Equipment Under Test: (E.U.T.)	Patient Tag 2
FCC ID:	HE7PT2
In Accordance With:	FCC Part 15, Subpart C For Low Power Transmitters Operating Periodically
	In The Band 40.66 - 40.77 MHz And Above 70 MHz
Tested By:	KTL Ottawa Inc. 3325 River Road, R.R. 5 Ottawa, Ontario K1V 1H2
Tested By: Authorized By:	KTL Ottawa Inc. 3325 River Road, R.R. 5
-	KTL Ottawa Inc. 3325 River Road, R.R. 5
-	KTL Ottawa Inc. 3325 River Road, R.R. 5 Ottawa, Ontario K1V 1H2

Table of Contents

Section 1.	Summary of Test Results
Section 2.	Equipment Under Test (E.U.T.)
Section 3.	Occupied Bandwidth9
Section 4.	Periodic Alternate Field Strength Requirements11
Section 5.	Block Diagrams13
Section 6.	Test Equipment List14

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 Part 15, Subpart C, Paragraph 15.231. All tests were conducted using measurement procedure ANSI C63.4-1992. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

\square	New Submission	\square	Production Unit
	Class II Permissive Change		Pre-Production Unit
D S C	Equipment Code		
	THIS TEST REPORT RELATES ONLY TO	THE ITH	EM(S) TESTED.
THE FOLLO	WING DEVIATIONS FROM, ADDITIONS TO SPECIFICATIONS HAVE BEE See "Summary of Test Da	N MAD	
	NVLAP		
	NVLAP LAB CODE: 10	0351-0	
TESTED BY:	Russell Grant, Wireless Group Manager	DA	ATE:
	authorizes the above named company to reproduce this reponsively approximately approxima	ort provide	d it is reproduced in its entirety and for

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. KTL Ottawa Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

This report applies only to the items tested.

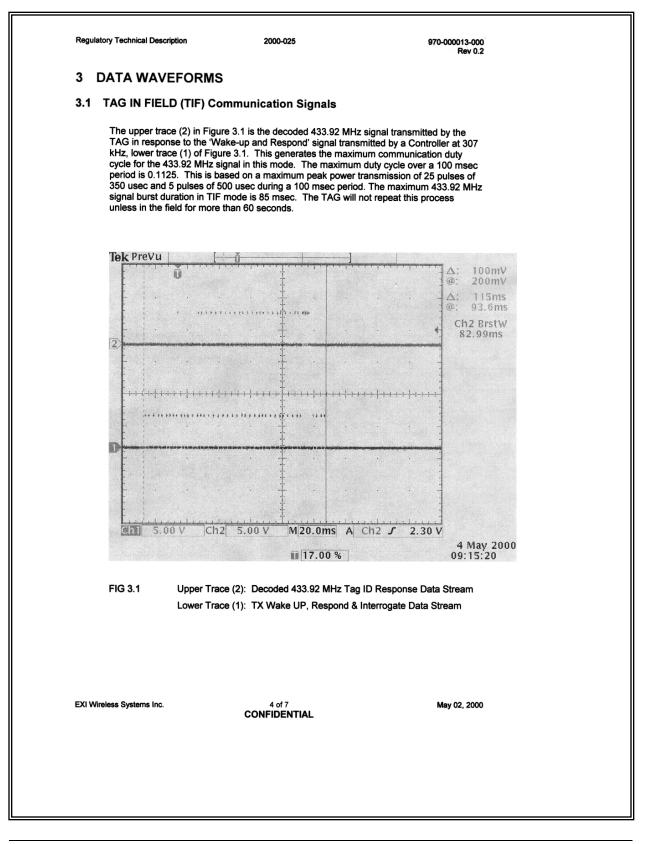
Summary Of Test Data

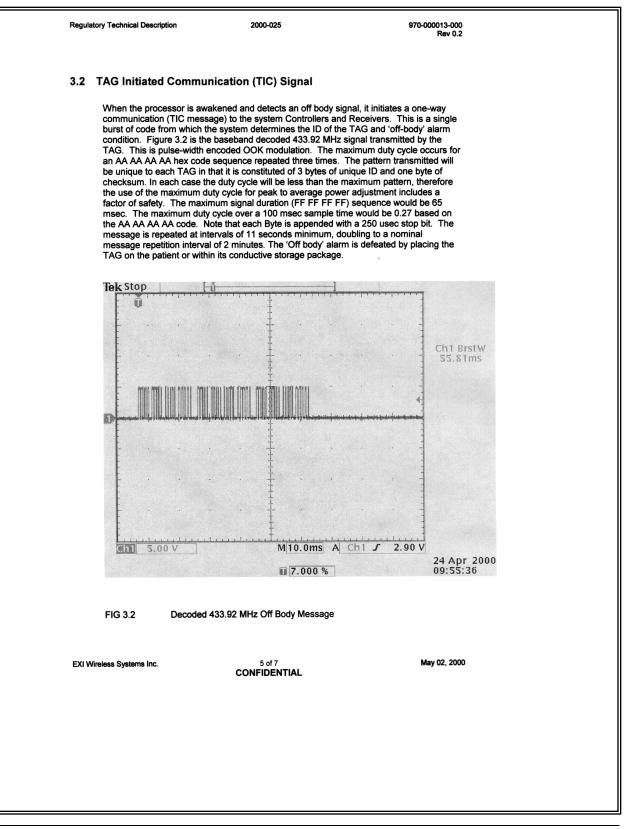
Name of Test	Para. Number	Results
Transmission Requirements	15.231(a)	Not Applicable
Radiated Emissions	15.231(b)	Not Applicable
Occupied Bandwidth	15.231(c)	Complies
Frequency Tolerance	15.231(d)	Not Applicable
Periodic Alternate Field Strength Requirements	15.231(e)	Complies
Powerline Conducted Emissions	15.207	Not Applicable

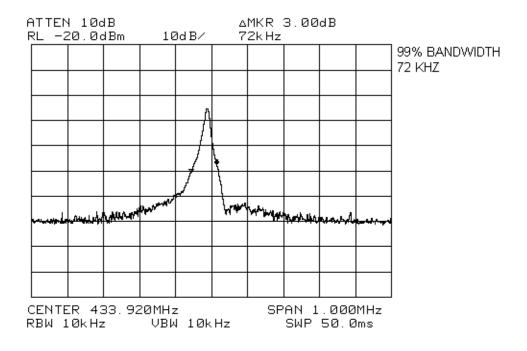
Section 2. Equipment Under Test (E.U.T.)

General Equipment Information

Manufacturer:	EXI Wireless Systems Inc.
Model No.:	Patient Tag 2
Date Received In Laboratory:	December 5, 2000
KTL Identification No.:	Item #9
Frequency Range:	433.92 MHz
Emission Designator:	72K0L1D
Supply Power Requirement:	Batteries
Duty Cycle Calculation:	$20 \log 0.27 = -11.4 \text{ dB}$



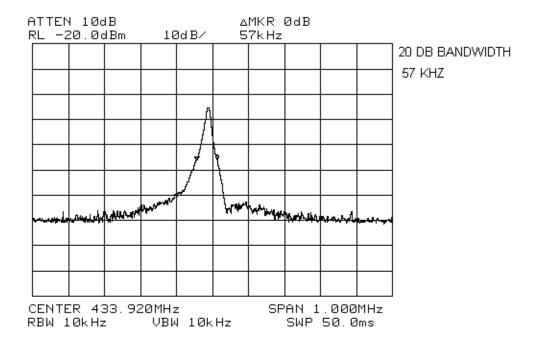




Section 3. Occupied Bandwidth

Para. No.: 15.231(c)

Test Performed By: Ru	ssell Grant	Date of Test: December 8, 2000		
0.25% of the center MHz and below 900 the emission shall be		ndwidth of the emission shall be no wider than hter frequency for devices operating above 70 00 MHz. For devices operating above 900 MHz, be no wider than 0.5% of the center frequency. ermined at the points 20 dB down from the		
Test Results:	Complies. See attacl	ned graph.		
Test Data:	See attached graph.			



Section 4. Periodic Alternate Field Strength Requirements

Para. No.: 15.231(e)

Minimum Standard: 15.231(e) Intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) of this section and may be employed for any type of operation, including operation prohibited in paragraph (a) of this section, provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this section, except the field strength table in paragraph (b) of this section is replaced by the following.

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	1,000	100
70 - 130	500	50
130 - 174	500 to 1,500	50 to 150
174 - 260	1,500	150
260-470	1,500 to 5,000	150 to 500
Above 470	5,000	500

In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

Test Results:Complies. The worst case emission is $38.8 \text{ dB}\mu\text{V/m}$ @ 3m at3471.36 MHz. This is 15.2 dB below the specification limit.

Test Data:

See attached table.

	Distance ters) : 3		ange: Tower	Receiver: ESVP		RBW(kHz): 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)
433.92	E/D4	V	40.0	24.9		-11.4	53.5	73.0	19.5
433.92	E/D4	Н	33.2	24.9		-11.4	46.7	73.0	26.3
867.84	E/D4	V	2.0	31.9		-11.4	22.5	53.0	30.5
867.84	E/D4	Н	0.0	31.9		-11.4	20.5	53.0	32.5
1301.76	Hrn2	V	57.0	30.6	-48.0	-11.4	28.2	54.0	25.8
1301.76	Hrn2	Н	43.0	30.6	-48.0	-11.4	14.2	54.0	39.8
1735.68	Hrn2	V	59.0	32.2	-48.0	-11.4	31.8	54.0	22.2
1735.68	Hrn2	Н	55.0	32.2	-48.0	-11.4	27.8	54.0	26.2
2169.6	Hrn2	V	63.8	34.8	-58.3	-11.4	28.9	54.0	25.1
2169.6	Hrn2	Н	67.5	34.8	-58.3	-11.4	32.6	54.0	21.4
2603.52	Hrn2	V	62.5	36.9	-60.0	-11.4	28.0	54.0	26.0
2603.52	Hrn2	Н	59.5	36.9	-60.0	-11.4	25.0	54.0	29.0
3037.44	Hrn2	V	65.5	38.1	-59.4	-11.4	32.8	54.0	21.2
3037.44	Hrn2	Н	58.7	38.1	-59.4	-11.4	26.0	54.0	28.0
3471.36	Hrn2	V	67.7	39.8	-57.3	-11.4	38.8	54.0	15.2
3471.36	Hrn2	Н	59.2	39.8	-57.3	-11.4	30.3	54.0	23.7
3905.28	Hrn2	V	61.3	41.9	-57.8	-11.4	34.0	54.0	20.0
3905.28	Hrn2	Н	59.5	41.9	-57.8	-11.4	32.2	54.0	21.8
4339.2	Hrn2	V	55.7	42.5	-54.9	-11.4	31.9	54.0	22.1
4339.2	Hrn2	Н	51.5	42.5	-54.9	-11.4	27.7	54.0	26.3

Test Data - Periodic Alternate Field Strength Requirements

** Includes cable loss when amplifier is not used.

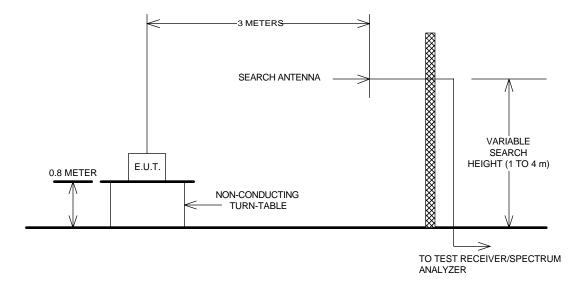
*** Includes cable loss.

() Denotes failing emission level.

N.D. = Not Detected

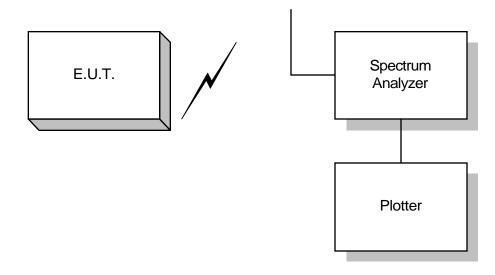
Section 5. Block Diagrams

Outdoor Test Site For Radiated Emissions



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

Occupied Bandwidth



Section 6. 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	Horn Antenna	EMCO #2	3115	4336	Nov. 11/99	Nov. 11/00
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	Aug. 4/99	Aug. 4/00
1 Year	RF AMP	JCA	2-4 GHz	FA001496	May 31/00	May 31/01
1 Year	RF AMP	JCA	1-2 GHz	FA001498	May 31/00	May 31/01
1 Year	RF AMP	JCA	4-8 GHz	FA001497	May 31/00	May 31/01

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