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FCC PART 15 TEST REPORT

APPLICANT	MOTOROLA INC.
	8000 WEST SUNRISE BLVD.
TEL	FT. LAUDERDALE, FL 33322-9947
MODEL NUMBER	H90XAH9JR7AN
PRODUCT DESCRIPTION	ic502
DATE SAMPLE RECEIVED	5/04/2006
DATE TESTED	5/11/2006
TESTED BY	RICHARD BLOCK
APPROVED BY	MARIO R. DE ARANZETA
TIMCO REPORT NO.	916AUT6TestReport
TEST RESULTS	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.

TABLE OF CONTENTS

STATEMENT OF COMPLIANCE.....	3
GENERAL INFORMATION.....	4
TEST EQUIPMENT LIST.....	5
TEST PROCEDURE.....	6
RADIATED SPURIOUS EMISSIONS.....	7
TEST SETUP PHOTOS.....	8

APPLICANT: MOTOROLA INC.

MODEL #: H90XAH9JR7AN

ic502

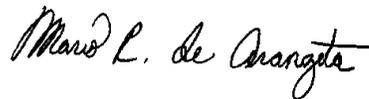
REPORT #: V:\M\MOTOROLA_FLORIDA\916AUT6\916AUT6TestReport.doc

STATEMENT OF COMPLIANCE

This equipment has been tested in accordance with the standards identified in the referenced test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report and demonstrate that the equipment complies with the appropriate standards. No modifications were made to the equipment during testing in order to demonstrate compliance with these standards.

I attest that the necessary measurements were made by me or under my supervision, at TIMCO ENGINEERING, INC. located at 849 N.W. State Road 45, Newberry, Florida 32669.

Authorized by: MARIO DE ARANZETA



Signature:

Function: Engineer

Date: 5/17/2006

Tested by: RICHARD BLOCK

Signature: ON FILE

Date: 5/12/2006

APPLICANT: MOTOROLA INC.

MODEL #: H90XAH9JR7AN
ic502

REPORT #: V:\M\MOTOROLA_FLORIDA\916AUT6\916AUT6TestReport.doc

GENERAL INFORMATION

EUT SPECIFICATION

The test results relate only to the items tested.		
Model Number	H90XAH9JR7AN	
Serial Number	364AGG00KL	
Product Description	ic502	
EUT Power	<i>Primary Power</i>	Battery Operated
	<i>Secondary Power</i>	N/A
Test Item	<input checked="" type="checkbox"/> Prototype	
	<input type="checkbox"/> Pre-Production	
	<input type="checkbox"/> Production	

TEST CONDITION

Normal

MODIFICATION TO THE DUT

No modification was made to the DUT during testing.

TEST STANDARDS ANSI C63.4 - 2003

APPLICANT: MOTOROLA INC.

MODEL #: H90XAH9JR7AN

 ic502

REPORT #: V:\M\MOTOROLA_FLORIDA\916AUT6\916AUT6TestReport.doc

TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
3-Meter OATS	TEI	N/A	N/A	Listed 1/11/06	1/10/09
Antenna: Biconnical	Eaton	94455-1	1057	CAL 12/12/05	12/12/07
Antenna: Biconnical	Eaton	94455-1	1096	CAL 8/17/04	8/17/06
Antenna: Biconnical	Electro- Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Analyzer Tan Tower Quasi- Peak Adapter	HP	85650A	3303a01690	CAL 12/8/05	12/8/07
Analyzer Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 12/7/05	12/7/07
Analyzer Tan Tower Spectrum Analyzer	HP	8566B OPT 462	3188A07786 3144A20661	CAL 12/7/05	12/7/07
Analyzer Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 12/8/05	12/8/07
LISN	Electro- Metrics	ANS-25/2	2604	CAL 8/27/04	8/27/06
LISN	Electro- Metrics	EM-7820	2682	CAL 4/28/05	4/28/07
Antenna: Log-Periodic	Eaton	96005	1243	CAL 12/14/05	12/14/07

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REPORT #: V:\M\MOTOROLA_FLORIDA\916AUT6\916AUT6TestReport.doc

TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC. The UUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 using a HEWLETT PACKARD spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the UUT was 74.3oF with a humidity of 69%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS
33 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The UUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The UUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSIC63.4-2003 with the EUT 40 cm from the vertical ground wall.

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MODEL #: H90XAH9JR7AN
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REPORT #: V:\M\MOTOROLA_FLORIDA\916AUT6\916AUT6TestReport.doc

RADIATED SPURIOUS EMISSIONS

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

FIELD STRENGTH OF FUNDAMENTAL

Frequency (MHz)	Limits (measured at 3 meters)
902-928	94 dBuV/m
2.4-2.4835	94 dBuV/m

FIELD STRENGTH OF HARMONICS S15.209

Frequency (MHz)	Limits (measured at 3 meters)
30 - 88	40.0 dBuV/m
88 - 216	43.5 dBuV/m
216 - 960	46.0 dBuV/m
Above 960	54.0 dBuV/m
Restricted Bands	54.0 dBuV/m

TEST DATA:

Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
902.5	1,805.00	15.8	V	2.74	30.03	48.57	5.43
902.5	1,805.00	16.4	H	2.74	30.03	49.17	4.83
902.5	2,707.50	16.2	H	3.40	32.85	52.45	1.55
902.5	2,707.50	17.0	V	3.40	32.85	53.25	0.75
915.5	1,831.00	16.6	V	2.76	30.19	49.55	4.45
915.5	1,831.00	16.9	H	2.76	30.19	49.85	4.15
915.5	2,746.50	14.4	H	3.42	32.90	50.72	3.28
915.5	2,746.50	14.6	V	3.42	32.90	50.92	3.08
927.5	1,854.90	15.3	V	2.78	30.33	48.41	5.59
927.5	1,854.90	16.1	H	2.78	30.33	49.21	4.79
927.5	2,782.40	15.2	H	3.45	32.94	51.59	2.41
927.5	2,782.40	16.9	V	3.45	32.94	53.29	0.71

THE UUT WAS TESTED TO THE TENTH HARMONIC

PERFORMED BY: RICHARD BLOCK

DATE: 5/10/2006

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REPORT #: V:\M\MOTOROLA_FLORIDA\916AUT6\916AUT6TestReport.doc

TEST SETUP PHOTOS

RADIATED EMISSIONS TEST SET UP PHOTO



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REPORT #: V:\M\MOTOROLA_FLORIDA\916AUT6\916AUT6TestReport.doc