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Newberry, Fl 32669 USA
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FCC PART 15 SUB PART B CLASS B TEST REPORT

Applicant	MOTOROLA, INC.
Address	8000 WEST SUNRISE BLVD, MD: 1309 FT. LAUDERDALE FL 33322-9947 USA
Model Number	AZ489FT3814 S/NO. TK1F10E4
Product Description	2 WAY PORTABLE RADIO
Date Sample Received	9/29/2006
Date Tested	10/10/2006
Tested By	RICHARD BLOCK
Approved By	FRANK DENUZZO
Report Number	2773CUT6TestReport.doc
Total Pages	14
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.**



Certificate # 0955-01

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APPLICANT: MOTOROLA, INC.

MODEL: AZ489FT3814

REPORT: M\MOTOROLA_Florida\2773CUT6\2773CUT6TestReport.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.

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 USA.



Certificate #0955-01

Authorized by: Frank DeNuzzo

Authorized Signature: <Frank DeNuzzo>

Function: Engineer

Date: 10/10/2006

APPLICANT: MOTOROLA, INC.

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GENERAL INFORMATION

The test results relate only to the items tested.	
DUT Description	2 WAY PORTABLE RADIO
Model Number	AZ489FT3814
Trade Name	MOTOROLA
DUT Power Source	<input checked="" type="checkbox"/> 110-120Vac/50- 60Hz
	<input type="checkbox"/> DC Power
	<input type="checkbox"/> Battery Operated Exclusively
Test Item	<input type="checkbox"/> Prototype
	<input checked="" type="checkbox"/> Pre-Production
	<input type="checkbox"/> Production
Type of Equipment	<input type="checkbox"/> Fixed
	<input type="checkbox"/> Mobile
	<input checked="" type="checkbox"/> Portable
Laboratory Test Conditions	Temperature: 26°C
	Humidity: 55%
Modifications to DUT:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explanation below)

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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		Out for Cal
Antenna: Biconnical	Electro-Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Analyzer	HP	85650A	2811A01279	CAL 4/13/05	4/13/07
Blue Tower Quasi-Peak Adapter					
Analyzer	HP	85685A	2926A00983	CAL 9/5/05	9/5/07
Blue Tower RF Preselector					
Analyzer	HP	8568B	2928A04729	CAL 4/13/05	4/13/07
Blue Tower Spectrum Analyzer					
LISN	Electro-Metrics	ANS-25/2	2604		Out for cal
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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TEST PROCEDURES

Radiation Interference: The test procedure used was ANSI STANDARD C63.4-2003 using an Agilent spectrum analyzer with a preselector. In the frequency range 10 kHz to 30 MHz the RBW was 10 kHz and from 30-1000 MHz the RBW of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The video bandwidth was always greater than or equal to the RBW.

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 in dB/m. The gain of the preselector was accounted for in the spectrum analyzer meter reading.

Example:

Freq (MHz)	Meter Reading	+ ACF	+CL	= FS
33	20 dBuV	+ 10.36 dB/m	+0.40 dB	=30.36 dBuV/m @ 3m

ANSI C63.4-2003 Section 8.2.1 Measurement Procedures: The DUT was placed on a non-conducting table 80 cm above the ground plane with the DUT located in the center of the table. With the antenna vertical a preliminary scan was done at a 1 meter distance, the DUT was then moved to a 3 meter distance and the antenna height varied. Measurements were again made this time with the antenna placed in the horizontal position. The frequency was scanned from 30 MHz to 1.0 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. The DUT was measured in three (3) orthogonal planes when necessary.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI C63.4-2003 with the EUT 40 cm from the vertical ground wall.

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RADIATED SPURIOUS EMISSIONS

Rules Part No.: 15.109(a) - Class B Digital Device

Requirements:

Frequency	Limits
30 – 88	40.0 dB μ V/m measured @ 3 meters
80 – 216	43.5 dB μ V/m measured @ 3 meters
216 – 960	46.0 dB μ V/m measured @ 3 meters
Above 960	54.0 dB μ V/m measured @ 3 meters

Test Procedure: The procedure used was ANSI C63.4-2003 Section 8.2. The frequency was scanned from 30 MHz to 1.0 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. The DUT was measured in three (3) orthogonal planes when necessary.

Test Data:

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
30.50	21.1	V	0.40	12.21	33.71	6.29
30.70	16.4	H	0.40	13.56	30.36	9.64
40.93	17.7	V	0.45	9.77	27.92	12.08
49.80	19.2	V	0.50	11.06	30.76	9.24
56.88	18.6	V	0.52	11.69	30.81	9.19
84.99	16.9	V	0.61	7.80	25.31	14.69
88.29	21.9	V	0.62	8.92	31.44	12.06
88.44	16.4	H	0.62	7.89	24.91	18.59
100.55	15.3	H	0.65	11.51	27.46	16.04
132.90	23.3	H	0.68	13.10	37.08	6.42
133.08	19.2	V	0.68	13.15	33.03	10.47
135.10	15.4	H	0.69	13.10	29.19	14.31
226.27	15.1	H	0.95	11.50	27.55	18.45
323.74	15.3	V	1.12	14.63	31.05	14.95
323.77	17.5	H	1.12	14.96	33.58	12.42
398.32	17.7	H	1.20	16.05	34.95	11.05
398.32	18.8	V	1.20	15.68	35.68	10.32
452.24	23.5	V	1.25	16.67	41.42	4.58
463.83	15.5	V	1.26	16.98	33.74	12.26
484.64	15.6	V	1.28	17.49	34.37	11.63
497.07	15.8	V	1.30	17.84	34.94	11.06

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POWER LINE CONDUCTED INTERFERENCE

Rules Part No.: Part 15.107 Class B

Requirements:

Frequency (MHz)	Quasi Peak Limits (dBuV)	Average Limits (dBuV)
0.15 – 0.5	66 – 56	56 – 46
0.5 – 5.0	56	46
5.0 – 30	60	50

Test Procedure: ANSI Standard C63.4-2003. The spectrum was scanned from 0.15 to 30 MHz.

Test Data: The attached plots represent the power line conducted emissions. Both sides of the line were observed.

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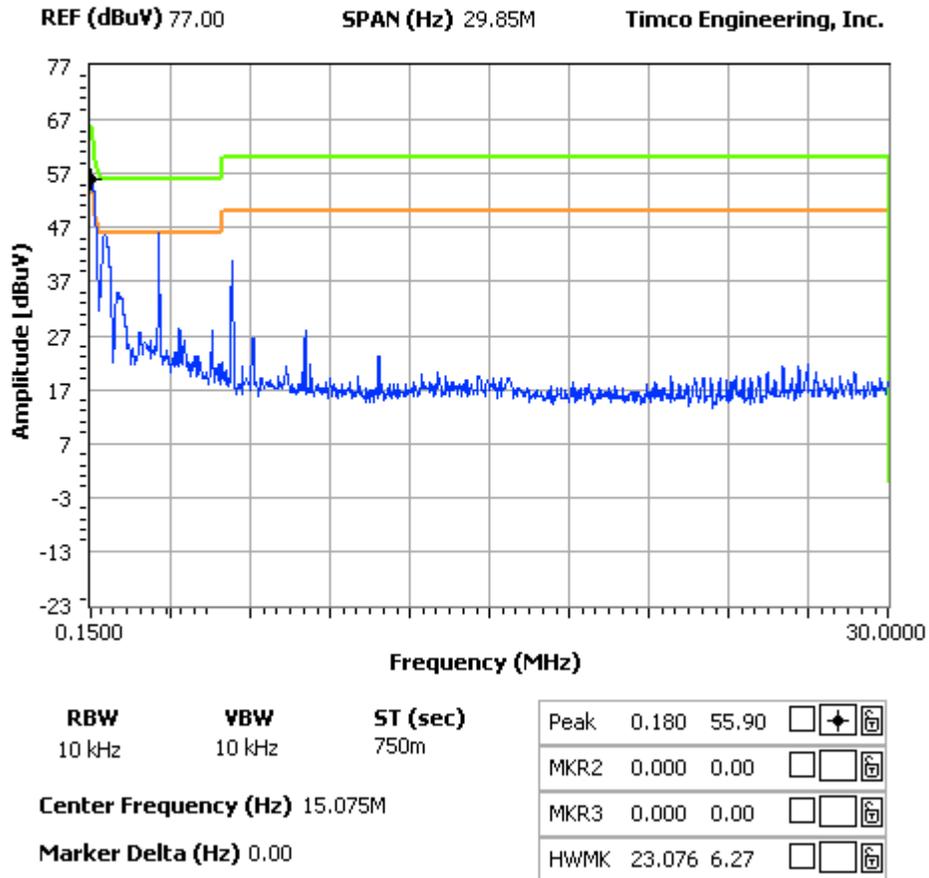
REPORT: M\MOTOROLA_Florida\2773CUT6\2773CUT6TestReport.doc

POWERLINE CONDUCTED EMISSIONS – LINE 1

NOTES:

POWER LINE CONDUCTED -- LINE 1
 MOTOROLA, INC. FL -- FCC ID: AZ4 89FT3814
 TRACK ID: TK1F10E4

FCC 15.107 Mask Class B



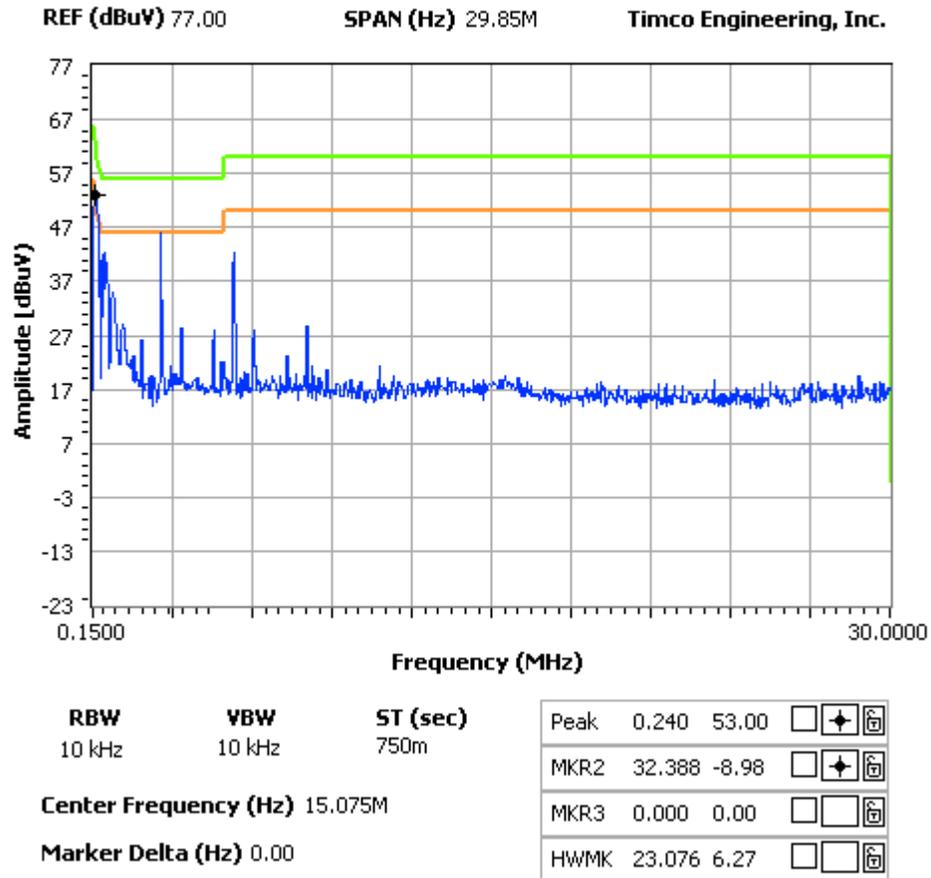
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POWERLINE CONDUCTED EMISSIONS – LINE 2

NOTES:

POWER LINE CONDUCTED -- LINE 2
 MOTOROLA, INC. FL -- FCC ID: A24 89FT3814
 TRACK ID: TK1FI0E4

FCC 15.107 Mask Class B



APPLICANT: MOTOROLA, INC.

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RADIATED EMISSIONS TEST SETUP PHOTO

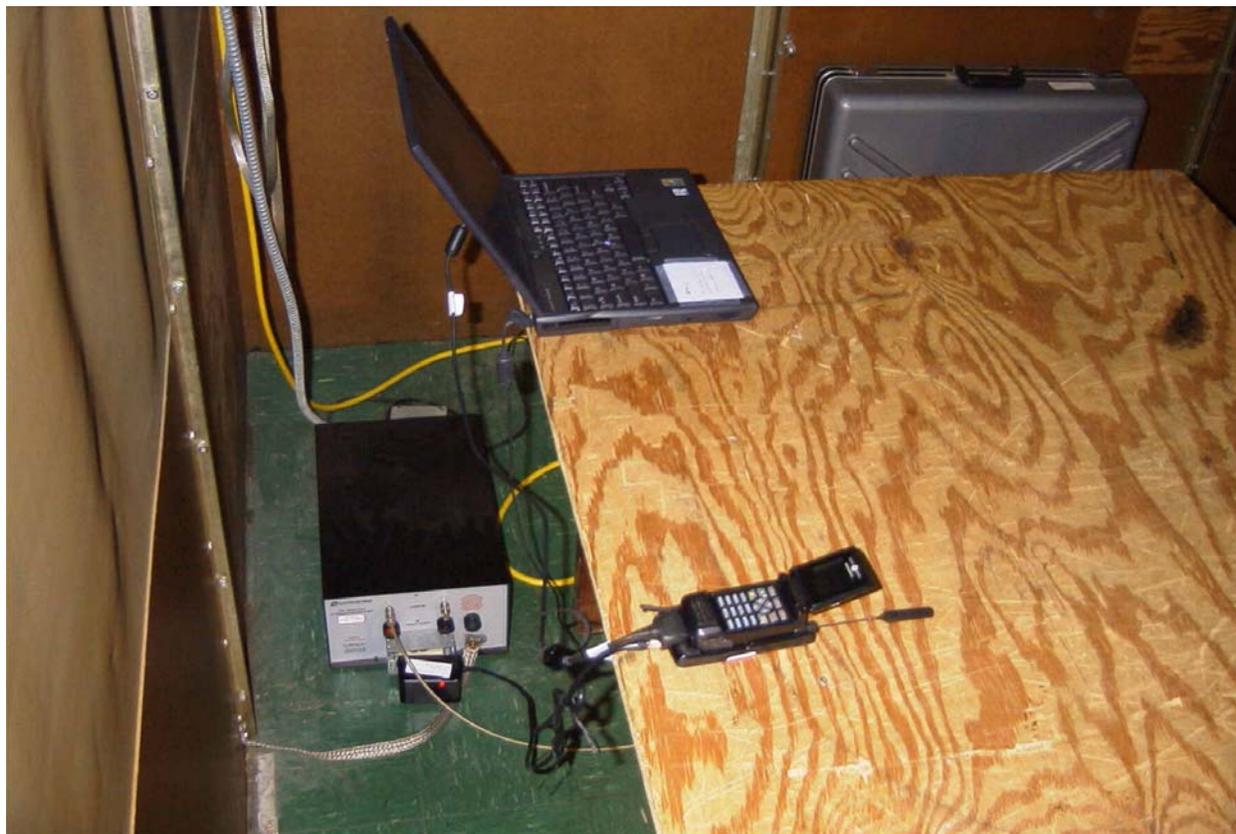


APPLICANT: MOTOROLA, INC.

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POWERLINE CONDUCTED EMISSIONS TEST SET UP PHOTO



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DECLARATION OF CONFORMITY INFORMATION

The following FCC rules are applicable to product subject to the declaration of conformity process:

§ 2.1077 Compliance information

(a) If a product must be tested and authorized under a Declaration of Conformity, a compliance information statement shall be supplied with the product at the time of marketing or importation, containing the following information:

(1) Identification of the product, e.g., name and model number;

(2) A statement, similar to that contained in §15.19(a)(3) of this chapter, that the product complies with part 15 of this chapters; and

(3) The identification, by name, address and telephone number, of the responsible party, as defined in §2.909. The responsible party for a Declaration of Conformity must be located within the United States.

(c) The compliance information statement shall be included in the user's manual or as a separate sheet.

§ 2.909 Responsible party

...

(c) In the case of equipment subject to authorization under the Declaration of Conformity procedure:

(1) The manufacturer or, if the equipment is assembled from individual component parts and the resulting system is subject to authorization under a Declaration of Conformity, the assembler.

(2) If the equipment, by itself, is subject to a Declaration of Conformity and that equipment is imported, the importer.

(3) Retailers or original equipment manufacturers may enter into an agreement with the responsible party designated in paragraph (c)(1) or (c)(2) of this section to assume the responsibilities to ensure compliance of equipment and become the new responsible party.

(4) If the radio frequency equipment is modified by any party not working under the authority of the responsible party, the party performing the modifications, if located within the U.S., or the importer, if the equipment is imported subsequent to the modifications, becomes the new responsible party.

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Please find on the following page, a sample compliance information statement:

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DECLARATION OF CONFORMITY

The responsible party declares that this device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: MOTOROLA, INC.

Address: 8000 WEST SUNRISE BLVD, MD: 1309
FT. LAUDERDALE FL 33322-9947 USA

Tel:

Fax:

Printed Name/Title:

Signature:

Product Description: 2 WAY PORTABLE RADIO

Model Name: AZ489FT3814

Trade/Brand Name: MOTOROLA

Applicant: MOTOROLA, INC.

Address: 8000 WEST SUNRISE BLVD, MD: 1309
FT. LAUDERDALE FL 33322-9947 USA

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Date: 10/10/2006