



849 NW STATE ROAD 45  
NEWBERRY, FL 32669 USA  
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## FCC PART 90 TEST REPORT

APPLICANT	MOTOROLA, INC.
	8000 WEST SUNRISE BLVD, MD: 1309
	FT. LAUDERDALE FL 33322-9947 USA
FCC ID	AZ489FT3814
SERIAL #	TK1F10E4
PRODUCT DESCRIPTION	2 WAY PORTABLE RADIO
DATE SAMPLE RECEIVED	9/29/2006
DATE TESTED	10/4/2006
TESTED BY	RICHARD BLOCK
APPROVED BY	FRANK DENUZZO
TIMCO REPORT NO.	2773AUT6TestReport.doc
TOTAL PAGES	10
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



Certificate # 0955-01

## TABLE OF CONTENTS

STATEMENT OF COMPLIANCE.....	3
TEST PROCEDURE .....	5
FIELD STRENGTH OF SPURIOUS EMISSIONS.....	6
TEST SET UP PHOTO .....	10

Applicant: MOTOROLA INC.

FCC ID: AZ489FT3814

Report: V:\M\MOTOROLA\_FLORIDA\2773AUT6\2773AUT6TestReport.doc



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## 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 USA.

**Authorized by:** Frank DeNuzzo

**Signature:** <Frank DeNuzzo>

**Function:** Engineer

**Date:** 10/11/2006

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Report: V:\M\MOTOROLA\_FLORIDA\2773AUT6\2773AUT6TestReport.doc



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**Test Facility:** The test sites used by Timco Engineering Inc. for collecting radiated and conducted emission data are located at 849 NW State Road 45 Newberry, FL 32669 USA.

**Test Condition:** The DUT was tested in the laboratory in an environment with normal temperature and humidity. The temperature was 26°C with a relative humidity of 50%.

**Modification to the DUT:** No modification was made to the DUT during testing.

**Test Exercise (e.g software description, test signal, etc.):** The DUT was placed in continuous transmit mode of operation.

**Applicable Standards:** TIA 603  
FCC CFR 47 Part 90



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## TEST PROCEDURE

**Radiation Interference:** The test procedure used was ANSI STANDARD C63.4-2003 using an Agilent spectrum receiver with pre-selector. The bandwidth (RBW) of the spectrum receiver was 100 kHz up to 1 GHz and 1 MHz above 1 GHz with an appropriate sweep speed. The VBW above 1 GHz was 3 MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 76°F with a humidity of 55%.

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FCC ID: AZ489FT3814

Report: V:\M\MOTOROLA\_FLORIDA\2773AUT6\2773AUT6TestReport.doc



Certificate # 0955-01

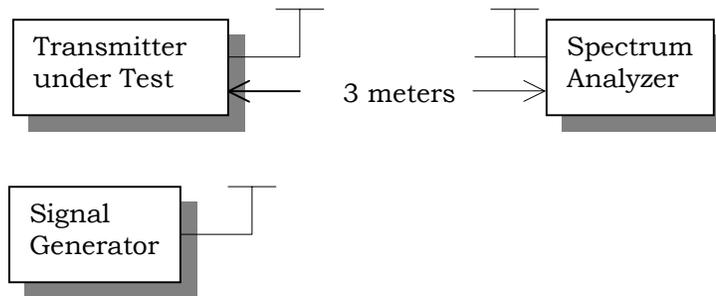
### FIELD STRENGTH OF SPURIOUS EMISSIONS

**Rule Parts. No.:** Part 2.1053

**Requirements:** Low Power -  $43+10(\text{Log}) 1 = 43.00 \text{ dB}$   
High Power -  $43+10(\text{log}) 2.8 = 47.47 \text{ dB}$

**Method of Measurements:** The spectrum was scanned from 30 MHz to at least the tenth harmonic of the fundamental. This test was conducted per TIA/EIA STANDARD 603 using the substitution method.

**Test Setup Diagram:**



**Test Data:**

LOW POWER:

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
136.28	V	0
272.55	H	93.81
408.83	V	92.24
545.10	V	87.15
681.38	V	95.69
817.65	V	100.44
953.93	H	99.98
1090.20	H	88.68
1226.48	V	89.63
1362.75	V	85.27



Certificate # 0955-01

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High Power -  $43+10(\text{log}) 2.8 = 47.47 \text{ dB}$

**Test Data:**

LOW POWER:

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
156.68	V	0
313.35	H	94.05
470.03	V	87.34
626.70	V	91.37
783.38	V	98.56
940.05	V	98.68
1096.73	V	89.08
1253.40	H	87.72
1410.08	V	87.84
1566.75	V	88.86

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
173.96	V	0
347.91	H	89.47
521.87	V	80.35
695.82	V	96.07
869.78	V	99.09
1043.73	H	90.14
1217.69	V	87.58
1391.64	H	87.91
1565.60	H	87.36
1739.55	V	84.84

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Report: V:\M\MOTOROLA\_FLORIDA\2773AUT6\2773AUT6TestReport.doc



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**Rule Parts. No.:** Part 2.1053

**Requirements:** Low Power -  $43+10(\text{Log}) 1 = 43.00 \text{ dB}$   
High Power -  $43+10(\text{log}) 2.8 = 47.47 \text{ dB}$

HIGH POWER:

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
136.28	V	0
272.55	H	95.98
408.83	V	92.61
545.10	V	92.82
681.38	V	91.46
817.65	H	101.61
953.93	H	97.85
1090.20	H	88.75
1226.48	H	89.00
1362.75	V	84.84

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
156.68	V	0
313.35	H	92.72
470.03	V	86.21
626.70	V	90.24
783.38	H	98.83
940.05	H	98.95
1096.73	H	93.55
1253.40	V	93.49
1410.08	V	87.61
1566.75	V	92.03

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HIGH POWER:

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
173.96	V	0
347.91	H	97.24
521.87	V	81.72
695.82	V	89.94
869.78	V	103.96
1043.73	V	93.91
1217.69	H	92.25
1391.64	V	90.58
1565.60	V	91.63
1739.55	V	88.31

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FCC ID: AZ489FT3814

Report: V:\M\MOTOROLA\_FLORIDA\2773AUT6\2773AUT6TestReport.doc

## TEST SET UP PHOTO



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Report: V:\M\MOTOROLA\_FLORIDA\2773AUT6\2773AUT6TestReport.doc