



849 NW STATE ROAD 45
NEWBERRY, FL 32669 USA
PH: 888.472.2424 OR 352.472.5500
FAX: 352.472.2030
EMAIL: INFO@TIMCOENGR.COM
[HTTP://WWW.TIMCOENGR.COM](http://WWW.TIMCOENGR.COM)

FCC PART 90 TEST REPORT

APPLICANT	MOTOROLA MOBILITY, INC.
	600 NORTH U.S. HWY 45 LIBERTYVILLE ILLINOIS 60048-5343 USA
FCC ID	IHDT56NP1
MODEL NUMBER	H3034101B32A
PRODUCT DESCRIPTION	YOSEMITE ROAD iDEN
DATE SAMPLE RECEIVED	6/13/2012
DATE TESTED	7/6/2012
TESTED BY	Joe Scoglio
APPROVED BY	Mario R. de Aranzeta
TIMCO REPORT NO.	1510AUT12TestReport.doc
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



TABLE OF CONTENTS

GENERAL REMARKS.....	3
GENERAL INFORMATION.....	4
TEST PROCEDURES	5
FIELD STRENGTH OF SPURIOUS EMISSIONS.....	6
EMC EQUIPMENT LIST	9

Applicant: MOTOROLA MOBILITY, INC.
FCC ID: IHDT56NP1
Report: M\MOTOROLA IL LL\1510AUT12\1510AUT12TestReport.doc

GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

The test results relate only to the items tested.

Summary

The device under test does:

- fulfill the general approval requirements as identified in this test report
- not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025: 2005 requirements.



Testing Certificate # 0955-01

I attest that the necessary measurements were made, under my supervision, at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, Fl 32669



Authorized Signatory Name:

Mario de Aranzeta C.E.T.
Compliance Engineer/ Lab. Supervisor

Date: July/6/2012

Applicant: MOTOROLA MOBILITY, INC.
FCC ID: IHDT56NP1
Report: M\MOTOROLA IL LL\1510AUT12\1510AUT12TestReport.doc

GENERAL INFORMATION
DUT Specification

DUT Description	YOSEMITE ROAD iDEN
FCC ID	IHDT56NP1
Model Number	H3034101B32A
Serial Number	364BNJ1J4N
DUT Power Source	<input type="checkbox"/> 110-120Vac/50- 60Hz
	<input checked="" 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
Test Conditions	The temperature was 26°C relative humidity of 50%.
Modification to the DUT	None
Test Exercise	The DUT was placed in continuous transmit mode.
Applicable Standards	ANSI/TIA 603-C:2004, FCC CFR 47 Part 90, IC RSS-119, RSS-GEN
Test Facility	Timco Engineering Inc. at 849 NW State Road 45 Newberry, FL 32669 USA.

Applicant: MOTOROLA MOBILITY, INC.
 FCC ID: IHDT56NP1
 Report: M\MOTOROLA IL LL\1510AUT12\1510AUT12TestReport.doc



TEST PROCEDURES

Radiation Interference: The test procedure used was ANSI/TIA 603-C: 2004 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 micro volt at the output of the antenna.

Applicant: MOTOROLA MOBILITY, INC.
FCC ID: IHDT56NP1
Report: M\MOTOROLA IL LL\1510AUT12\1510AUT12TestReport.doc

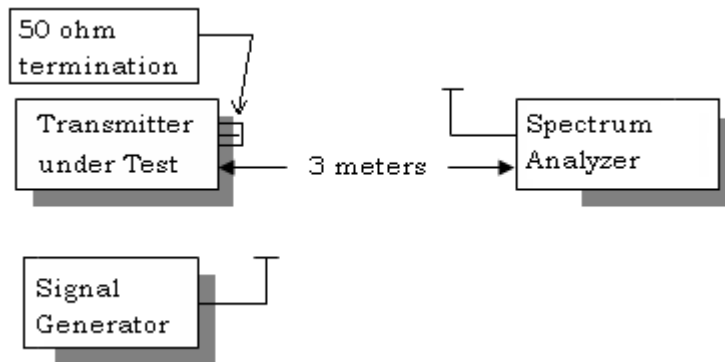
FIELD STRENGTH OF SPURIOUS EMISSIONS

Rule Parts. No.: FCC Part 2.1053, RSS-GEN 4.9

Requirements: $50+10\log(0.5) = 47 \text{ dB}$
 $50+10\log(1) = 50 \text{ dB}$

METHOD OF MEASUREMENT: The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 MHz to at least the tenth harmonic of the fundamental. This test was conducted per ANSI/TIA 603-C:2004 using the substitution method. Measurements were made at the test site of TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.

Test Setup Diagram:



Test Data:

800 MHz Band

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
806.00	V	0
1612.10	V	64.2
2418.10	V	60.8
3224.20	V	68.9
4030.30	V	70.8
4836.30	V	74.0

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
813.50	V	0
1627.10	V	68.8
2440.60	V	62.8
3254.20	V	69.9
4067.80	V	76.3
4881.30	V	75.8

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
820.90	V	0
1641.90	V	66.8
2462.90	V	60.3
3283.90	V	68.8
4104.90	V	74.0
4925.90	V	74.6

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
824.90	V	0
1649.90	V	64.2
2474.90	V	61.8
3299.90	V	70.5
4124.90	V	72.5
4949.90	V	73.7

900 MHz Band

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
896.00	V	0
1792.00	H	66.6
2688.00	V	69.0
3584.00	V	74.1
4480.00	V	75.9
5376.10	V	76.7

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
900.90	V	0
1801.90	V	65.8
2702.90	V	71.3
3603.90	V	76.8
4504.90	V	77.2
5405.80	V	77.3

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
901.40	V	0
1802.90	H	66.2
2704.40	V	69.9
3605.90	V	77.1
4507.40	V	76.8
5408.90	V	75.7

EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Double ridge horn	ETS Lindgren	3117	35623	12/07/2011	12/07/2013
Antenna: Biconnical	Eaton	94455-1	1096	05/04/11	05/04/13
Antenna: Log- Periodic	Electro- Metrics	LPA-25	1122	05/04/11	05/04/13
Frequency Counter	HP	5352B	2632A00165	06/22/11	06/22/13
Frequency Counter	HP	5385A	2730A03025	08/17/11	08/17/13
Signal Generator	HP	8640B	2308A21464	02/23/12	02/23/14
Hygro- Thermometer	Extech	445703	0602	06/15/11	06/15/13
Digital Multimeter	Fluke	77	35053830	09/09/11	09/09/13
Analyzer Tan Tower RF Preselector	HP	85685A	3221A01400	11/21/09	10/28/13
Analyzer Silver Tower RF Preselector	HP	85685A	2926A00983	11/10/10	11/10/12
Antenna: Passive Loop	EMC Test Systems	EMCO 6512	9706-1211	6/14/2012	6/14/2015
Modulation Analyzer	HP	8901A	3435A06868	07/18/11	07/18/13
Analyzer Silver Tower Quasi- Peak Adapter	HP	85650A	3303A01844	11/23/10	11/23/12
Temperature Chamber	Tenney Engineering	TTRC	11717-7	7/03/12	7/03/2014
3-Meter Semi- Anechoic Chamber	Panashield	N/A	N/A	12/31/11	12/31/13