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**COMPLIANCE TEST REPORT  
PER FCC PT 15 B CLASS B  
AND ICES-003**

<b>Applicant</b>	MOTOROLA MOBILITY, INC.
<b>Address</b>	600 NORTH U.S. HWY 45 LIBERTYVILLE ILLINOIS 60048-5343 USA
<b>FCC ID</b>	IHDP56MH1
<b>Model Number</b>	H2011B51015A
<b>Product Description</b>	iDEN ODM PHONE
<b>Date Sample Received</b>	6/20/2011
<b>Date Tested</b>	7/25/2011
<b>Tested By</b>	Joe Scoglio
<b>Approved By</b>	Mario R. de Aranzeta
<b>Report Number</b>	1364GT11TestReport ODM iDEN TX_Rev.pdf
<b>Test Results</b>	<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.**



Testing Certificate # 0955-01



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## 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:



Handwritten signature in blue ink over a circular stamp.

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

**Date:** 7/27/2011

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## REPORT SUMMARY

<b>Disclaimer</b>	The test results relate only to the items tested.
<b>Purpose of Test</b>	To demonstrate compliance with FCC CFR 47, Part 15.109 requirements. To demonstrate compliance with IC ICES-003 requirements.
<b>Test Standards</b>	Pt 15.109, Pt 15.107, ANSI C63.4: 2003, ICES-003

## TEST ENVIRONMENT

<b>Test Facility</b>	Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL 32669 USA.
<b>Test Condition in the laboratory</b>	Temperature: 26°C Relative humidity: 50%

## TEST SETUP SUMMARY

<b>Test Setup Diagram/ Description</b>	The DUT was placed on the turntable per setup per ANSI C63.4: 2003. A test set up photo is provided for clarification.
<b>Deviation from the standard/procedure</b>	No deviation
<b>Modification of DUT</b>	No modification

## SUPPORTING PERIPHERAL EQUIPMENT

<b>Mfg</b>	<b>Description</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Cable</b>
Dell	Laptop	P1A	N/A	Shielded

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**DUT SPECIFICATION**

<b>DUT Description</b>	ODM iDEN TX
<b>FCC ID</b>	IHDP56MH1
<b>Model Number</b>	H2011B51015A
<b>Serial Number</b>	364VMLODDH
<b>Hardware</b>	P2-8
<b>Software</b>	DD6.00.12
<b>DUT Power Source</b>	<input type="checkbox"/> 110-120Vac/50- 60Hz
	<input type="checkbox"/> DC Power
	<input checked="" type="checkbox"/> Battery Operated
<b>Test Item</b>	<input type="checkbox"/> Prototype
	<input checked="" type="checkbox"/> Pre-Production
	<input type="checkbox"/> Production
<b>Type of Equipment</b>	<input type="checkbox"/> Fixed
	<input type="checkbox"/> Mobile
	<input checked="" type="checkbox"/> Portable

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## TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3-Meter Semi-Anechoic Chamber	Panashield	N/A	N/A	Listed 5/10/10	5/10/12
AC Voltmeter	HP	400FL	2213A14499	CAL 6/12/11	6/12/13
Antenna: Dipole Kit	Electro-Metrics	TDA-30/1-4	153	CHAR 8/10/09	8/10/11
Antenna: Passive Loop	EMC Test Systems	EMCO 6512	9706-1211	CAL. 8/1/09	8/2/11
Frequency Counter	HP	5385A	2730A03025	CAL 9/4/09	9/4/11
Hygro-Thermometer	Extech	445703	0602	CAL 6/15/11	6/15/13
Modulation Analyzer	HP	8901A	3435A06868	CAL 8/26/09	8/26/11
Digital Multimeter	Fluke	FLUKE-77	35053830	CAL 11/18/09	11/18/11
Analyzer Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 11/21/09	11/21/11
Analyzer Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 11/22/09	11/22/11
Analyzer Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 11/21/09	11/21/11
Analyzer Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 11/24/09	11/24/11
Temperature Chamber	Tenney Engineering	TTRC	11717-7	CHAR 4/25/10	4/25/12
Antenna	ETS	3117	41534	9/22/2010	9/22/2012
Antenna	Electro metrics	LPA-25	1122	5/04/2011	5/04/2013
Antenna	Electro metrics	BIA-25	1171	1/15/2010	1/15/2012

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## TEST PROCEDURES

**Power line conducted Emission:** The test procedure used was ANSI C63.4-2003. The spectrum was scanned from 0.15 to 30 MHz.

**Radiation Interference:** The test procedure used was ANSI C63.4-2003 using a spectrum analyzer with preselector. The resolution bandwidth used was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The video bandwidth was always greater than or equal to the RBW.

The unit under test was placed on a table 80 cm high and with dimensions of 1m by 1.5m. 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 frequency was scanned from 30 MHz to 1.0 GHz. The DUT was measured in three (3) orthogonal planes when necessary.

**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 plus the coax loss. 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	+CL	= FS
33	20 dBuV	+ 10.36 dB/m	+0.40 dB	=30.76 dBuV/m @ 3m



## RADIATED SPURIOUS EMISSIONS

Rules Part No.: 15.109

### Requirements:

Frequency MHz	Limits
30 – 88	40.0 dB $\mu$ V/m measured @ 3 meters
88 – 216	43.5 dB $\mu$ V/m measured @ 3 meters
216 – 960	46.0 dB $\mu$ V/m measured @ 3 meters
Above 960	54.0 dB $\mu$ V/m measured @ 3 meters

### Test Data – Test Configuration #1:

Connected to computer, Berbug mode, SIM EMI command, SKN6278A (micro USB data cable)

NOTE DUT swept from 30 MHz to 5 GHz

Emission Frequency MHz	Meter Reading dB $\mu$ V	Ant. Polarity	Coax Loss dB	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Margin dB
42.60	3.8	H	0.46	10.80	15.06	24.94
42.60	9.0	V	0.46	10.80	20.26	19.74
67.80	15.3	V	0.56	8.89	24.75	15.25
67.80	18.1	H	0.56	8.89	27.55	12.45
80.00	8.4	H	0.60	6.30	15.30	24.70
80.00	13.3	V	0.60	6.30	20.20	19.80
92.00	4.7	H	0.63	8.62	13.95	29.55
92.00	10.2	V	0.63	8.62	19.45	24.05
132.80	14.9	V	0.68	12.90	28.48	15.02
132.80	21.7	H	0.68	12.90	35.28	8.22
189.00	9.8	V	0.86	17.22	27.88	15.62
189.00	11.5	H	0.86	17.22	29.58	13.92
229.20	15.2	H	0.96	11.61	27.77	18.23
229.20	18.5	V	0.96	11.61	31.07	14.93
266.00	16.3	V	1.03	13.98	31.31	14.69
266.00	18.0	H	1.03	13.98	33.01	12.99
310.10	15.6	V	1.11	14.40	31.11	14.89
310.10	18.1	H	1.11	14.40	33.61	12.39
333.10	15.5	V	1.13	14.66	31.29	14.71
333.10	16.7	H	1.13	14.66	32.49	13.51
365.40	17.5	H	1.17	15.21	33.88	12.12
365.40	18.0	V	1.17	15.21	34.38	11.62
398.30	19.0	V	1.20	16.27	36.47	9.53
398.30	19.8	H	1.20	16.27	37.27	8.73

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**TEST DATA CONTD. – CONFIGURATION #1**

<b>Emission Frequency MHz</b>	<b>Meter Reading dB<math>\mu</math>V</b>	<b>Ant. Polarity</b>	<b>Coax Loss dB</b>	<b>Correction Factor dB/m</b>	<b>Field Strength dB<math>\mu</math>V/m</b>	<b>Margin dB</b>
432.40	6.1	V	1.23	17.45	24.78	21.22
432.40	15.6	H	1.23	17.45	34.28	11.72
454.90	20.9	H	1.25	17.55	39.70	6.30
454.90	22.5	V	1.25	17.55	41.30	4.70
507.00	8.6	H	1.32	18.79	28.71	17.29
507.00	11.9	V	1.32	18.79	32.01	13.99
930.10	7.2	H	2.00	24.00	33.20	12.80
930.10	9.8	V	2.00	24.00	35.80	10.20
1,130.70	13.0	H	2.20	27.54	42.74	11.26
1,130.70	13.2	V	2.20	27.54	42.94	11.06
1,462.00	14.0	H	2.47	28.13	44.60	9.40
1,462.00	14.4	V	2.47	28.13	45.00	9.00

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## RADIATED SPURIOUS EMISSIONS

**Rules Part No.:** 15.109

**Requirements:**

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216 – 960	46.0 dB $\mu$ V/m measured @ 3 meters
Above 960	54.0 dB $\mu$ V/m measured @ 3 meters

**Test Data – Test Configuration #2:**

Connected to computer, Subscriber mode, Ear Piece attached, battery and camera in preview mode

Emission Frequency MHz	Meter Reading dB $\mu$ V	Ant. Polarity	Coax Loss dB	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Margin dB
64.00	4.1	H	0.55	10.10	14.75	25.25
64.00	4.2	V	0.55	10.10	14.85	25.15
76.20	2.5	H	0.59	6.53	9.62	30.38
76.20	7.2	V	0.59	6.53	14.32	25.68
102.60	3.5	V	0.65	11.46	15.61	27.89
102.60	3.5	H	0.65	11.46	15.61	27.89
139.40	3.3	V	0.69	12.99	16.98	26.52
139.40	5.1	H	0.69	12.99	18.78	24.72
419.50	3.9	H	1.22	16.68	21.80	24.20
419.50	4.6	V	1.22	16.68	22.50	23.50
448.10	6.8	V	1.25	17.52	25.57	20.43
448.10	7.0	H	1.25	17.52	25.77	20.23

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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.

...

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

APPLICANT: MOTOROLA MOBILITY, INC.

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**MOTOROLA MOBILITY, INC.**  
**DECLARATION OF CONFORMITY (SAMPLE ONLY)**

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.

<b>Responsible Party:</b>	MOTOROLA MOBILITY, INC.
<b>Address:</b>	600 NORTH U.S. HWY 45 LIBERTYVILLE ILLINOIS 60048-5343 USA
<b>Tel:</b>	
<b>Fax:</b>	
<b>Printed Name/Title:</b>	
<b>Signature:</b>	
<b>Product Description:</b>	iDEN ODM PHONE
<b>FCC ID Model Name:</b>	IHDP56MH1 H2011B51015A
<b>Trade/Brand Name:</b>	MOTOROLA
<b>Applicant:</b>	MOTOROLA MOBILITY, INC.
<b>Address:</b>	600 NORTH U.S. HWY 45 LIBERTYVILLE ILLINOIS 60048-5343 USA
<b>Report Number:</b>	1364FT11TestReport ODM iDEN TX_REV.PDF
<b>Date:</b>	JULY 27, 2011