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## FCC PART 90 TEST REPORT

<b>APPLICANT</b>	MOTOROLA MOBILITY, INC.
	600 NORTH U.S. HWY 45 LIBERTYVILLE ILLINOIS 60048-5343 USA
<b>FCC ID</b>	IHDT56NQ2
<b>IC CERTIFICATION</b>	109O-T56NQ2
<b>MODEL NUMBER</b>	XT626
<b>PRODUCT DESCRIPTION</b>	Portable iDEN phone
<b>DATE SAMPLE RECEIVED</b>	4/25/2012
<b>DATE TESTED</b>	5/7/2012
<b>TESTED BY</b>	John A. Day
<b>APPROVED BY</b>	Mario de Aranzeta
<b>TIMCO REPORT NO.</b>	1064AUT12TestReport_Rev2.doc
<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.**



Certificate # 0955-01



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**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: May 22, 2012**

Applicant: MOTOROLA MOBILITY, INC.  
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**GENERAL INFORMATION**  
**DUT Specification**

<b>DUT Description</b>	Portable iDEN phone
<b>FCC ID</b>	IHDT56NQ2
<b>IC Certification</b>	109O-T56NQ2
<b>Model Number</b>	XT626
<b>Serial Number</b>	364PNG04X2
<b>Hardware</b>	RB-3B-1
<b>Software</b>	DDA.00.13
<b>Operating Frequency</b>	806.0125 – 824.9875 MHz
<b>DUT Power Source</b>	<input type="checkbox"/> 110–120Vac/50– 60Hz
	<input type="checkbox"/> DC Power 12V
	<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 PROCEDURES

**Power Line Conducted Interference:** The procedure used was ANSI/TIA 603-C: 2004 using a 50uH LISN. Both lines were observed with the DUT transmitting. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

**Bandwidth 20 dB:** The measurements were made with the spectrum analyzer's resolution bandwidth (RBW) = 1 MHz and the video bandwidth (VBW) = 3 MHz and the span set as shown on plot.

**Power Output:** The RF power output was measured at the antenna feed point using a peak power meter.

**Antenna Conducted Emissions:** The RBW = 100 kHz, VBW = 300 kHz and the span set to 10.0 MHz and the spectrum was scanned from 30 MHz to the 10<sup>th</sup> harmonic of the fundamental. Above 1 GHz the resolution bandwidth was 1 MHz and the VBW = 3 MHz and the span to 50 MHz.

**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.

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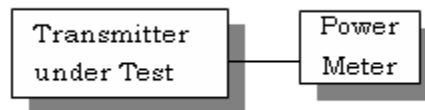
## RF POWER OUTPUT

**Rule Part No.:** FCC Part 2.1046(a), IC RSS-119 4.1 and 5.4, RSS-GEN 4.8

### Test Requirements:

**Method of Measurement:** RF power is measured by connecting a 50-ohm, resistive wattmeter to the RF output connector. With a nominal battery voltage, and the transmitter properly adjusted the RF output measures:

### Test Setup Diagram:



### Test Data:

#### DC power used by final amplifier device -- 47 CFR 2.1033(c)(8)

In order to prevent the malfunctions that can occur due to directly measuring the DC characteristics of the final RF amplifying stage, data was obtained by measuring the entire radio DC current and is reported herein for the entire radio.

FOR HIGH POWER SETTING INPUT POWER:  $(3.7V)(0.38A) = 1.41$  Watts

#### Land Mobile Transmitter Power

The transmitter is a variable power type used in a SMR trunking system. Output power (as defined in 47 CFR 90.7 and/or §24.132) is dynamically controlled.

Maximum output power rating: 640 milliwatts, pulse average power. Output power will vary from 0.22 to 640 milliwatts (pulse average power).

*Note 1: Nominal output power rating: 600 milliwatts (27.78 dBm) (Pulse average power).*

*Note 2: The term pulse average power is used to specify the power that would be measured during the intervals of recurrent TDM transmission pulses by an average responding RF power meter. Power expressed in this manner is independent of the TDM duty cycle, and facilitates RF system coverage analysis.*

#### Operating output power range -- 47 CFR 2.1033(c)(6)

Maximum tuned output power will vary over a range of 500 to 640 milliwatts (maximum pulse average power) to a minimum power of 34 dB below maximum tuned output power.

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## **MODULATION CHARACTERISTICS**

iDEN is a Motorola proprietary modulation scheme that has been described in many filings and consists of QPSK, 64QAM, and 16QAM modulations.

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## **OCCUPIED BANDWIDTH**

### **FCC Part 2.1049(c), RSS-GEN 4.6 EMISSION BANDWIDTH FCC Part 90.210(b) RSS-119 4.2 25kHz Channel Spacing**

Data in the plots show that on any frequency removed from the assigned frequency by more than 50%, but not more than 100%: At least 25dB. On any frequency removed from the assigned frequency by more than 100%, but not more than 250%: At least 35 dB. On any frequency removed from the assigned frequency by more than 250%, of the authorized bandwidth: At least  $43 + 10\log(P)$ dB.

### **Part 90.210(c) 25 kHz Channel Spacing Not Equipped with a Low Pass Filter**

For transmitters that are not equipped with an audio low pass filter pursuant to S90.211 (b), the power of any emission must be attenuated below the un-modulated carrier output power as follows; (1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency ( $f_d$  in kHz) of more than 5 kHz but not more than 10 kHz: At least  $83 \log(f_d/5)$  dB; (2) ON any frequency removed from the center of the authorized bandwidth by a displacement frequency ( $f_d$  in kHz) of more than 10 kHz, but not more than 250% of the authorized bandwidth: At least  $29 \log(f_d/11)$ dB or 50 dB, whichever is the lesser attenuation; (3) On any frequency removed from the center of the authorized bandwidth by more than 250% of the authorized bandwidth: At least  $43 + 10 \log(P_o)$ dB.

### **Part 90.210(g) Emission Mask G For transmitters that are not equipped with an audio low-pass filter**

For transmitters that are not equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:(1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency( $f_d$ in kHz) of more than 10 kHz, but no more than 250 percent of the authorized bandwidth: At least  $116 \log(f_d/6.1)$  dB, or  $50 + 10 \log(P)$  dB, or 70 dB, whichever is the lesser attenuation;(2) On any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least  $43 + 10 \log(P)$  dB.

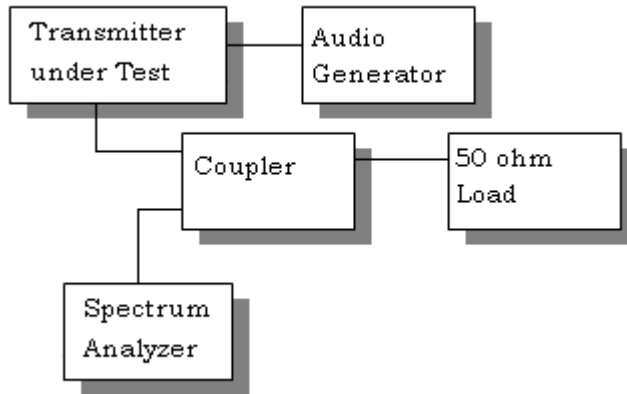
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**OCCUPIED BANDWIDTH MEASUREMENT**

**Test procedure:** ANSI/TIA-603-C: 2004 paragraph 2.2.11.

**Test Setup Diagram:**

**OCCUPIED BANDWIDTH MEASUREMENT**



**Test Data:** See the plots below

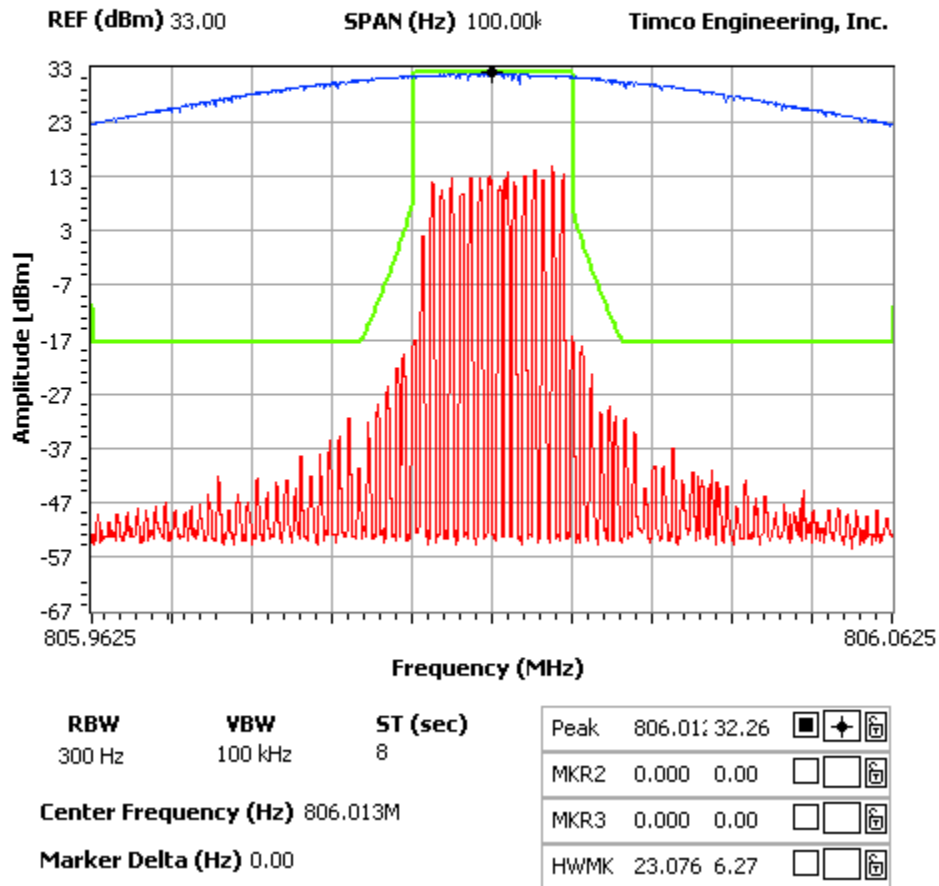
Applicant: MOTOROLA MOBILITY, INC.  
FCC ID: IHDT56NQ2  
IC CERT #: 109O-T56NQ2  
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### 3-1 OCCUPIED BANDWIDTH PLOTS

**NOTES:**

MOTOROLA MOBILITY, INC. Libertyville, IL - FCC ID: IHDT56NQ2  
 OCCUPIED BANDWIDTH PLOT - (3-1: 806.0125 MHz)

**FCC 90.210 Mask G**

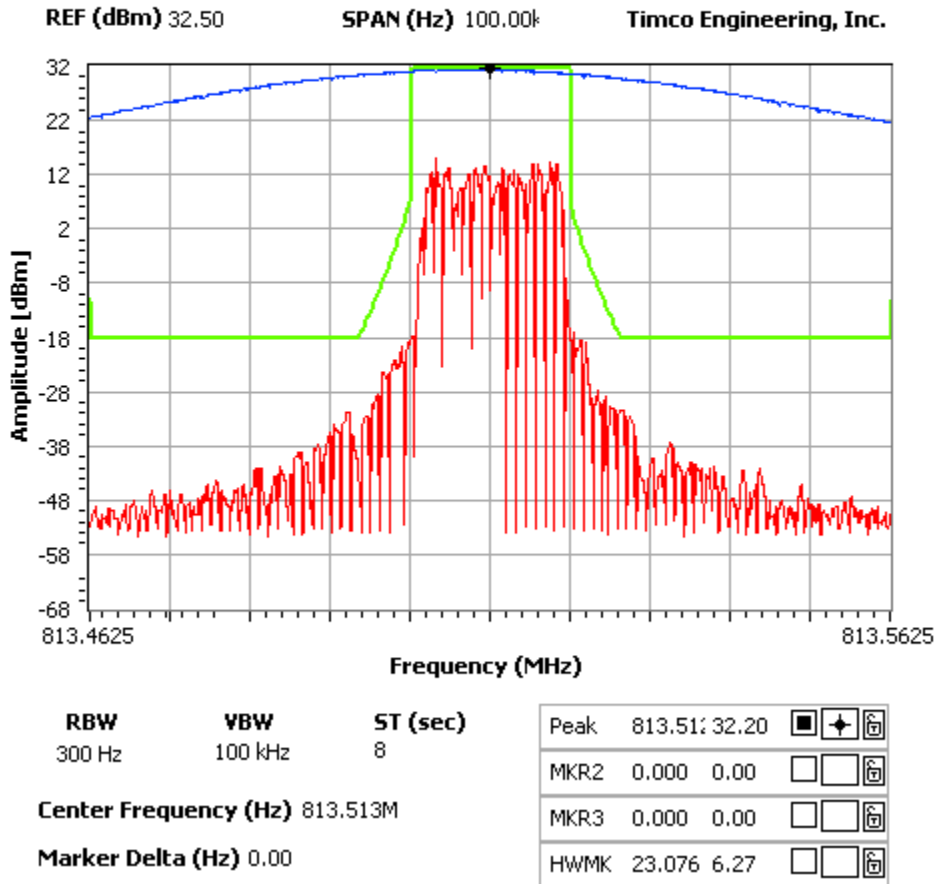


Applicant: MOTOROLA MOBILITY, INC.  
 FCC ID: IHDT56NQ2  
 IC CERT #: 109O-T56NQ2  
 Report: O:\M\MOTOROLA IL LL\1064AUT12\1064AUT12TestReport\_Rev2.doc

**NOTES:**

MOTOROLA MOBILITY, INC. Libertyville, IL - FCC ID: IHDT56NQ2  
 OCCUPIED BANDWIDTH PLOT - (3-1: 813.5125 MHz)

**FCC 90.210 Mask G**

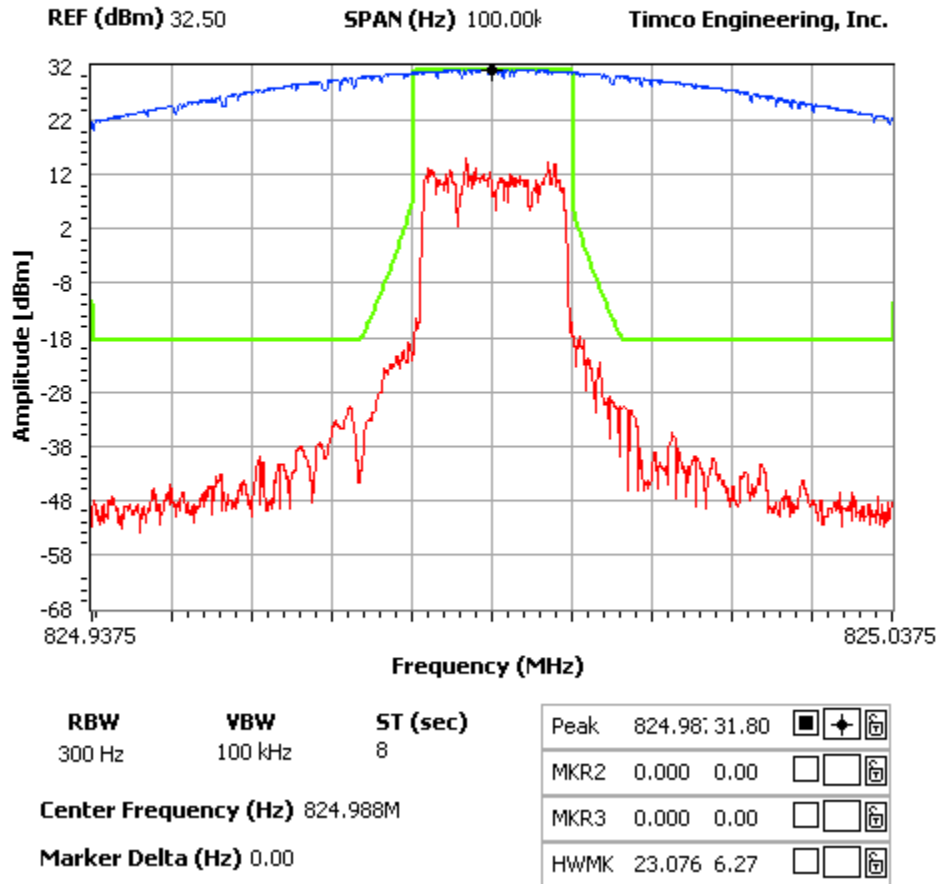


Applicant: MOTOROLA MOBILITY, INC.  
 FCC ID: IHDT56NQ2  
 IC CERT #: 109O-T56NQ2  
 Report: O:\M\MOTOROLA IL LL\1064AUT12\1064AUT12TestReport\_Rev2.doc

**NOTES:**

MOTOROLA MOBILITY, INC. Libertyville, IL - FCC ID: IHDT56NQ2  
 OCCUPIED BANDWIDTH PLOT - (3-1: 824.9875 MHz)

**FCC 90.210 Mask G**



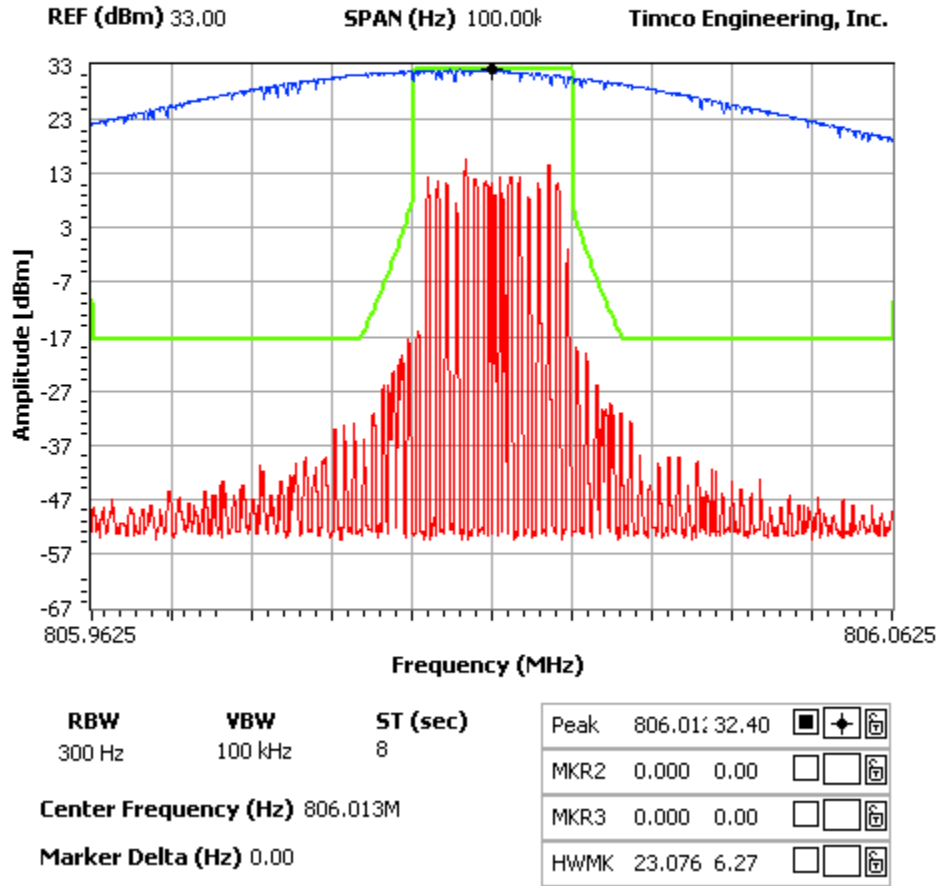
Applicant: MOTOROLA MOBILITY, INC.  
 FCC ID: IHDT56NQ2  
 IC CERT #: 109O-T56NQ2  
 Report: O:\M\MOTOROLA IL LL\1064AUT12\1064AUT12TestReport\_Rev2.doc

### 6-1 OCCUPIED BANDWIDTH PLOTS

**NOTES:**

MOTOROLA MOBILITY, INC. Libertyville, IL - FCC ID: IHDT56NQ2  
 OCCUPIED BANDWIDTH PLOT - (6-1: 806.0125 MHz)

**FCC 90.210 Mask G**

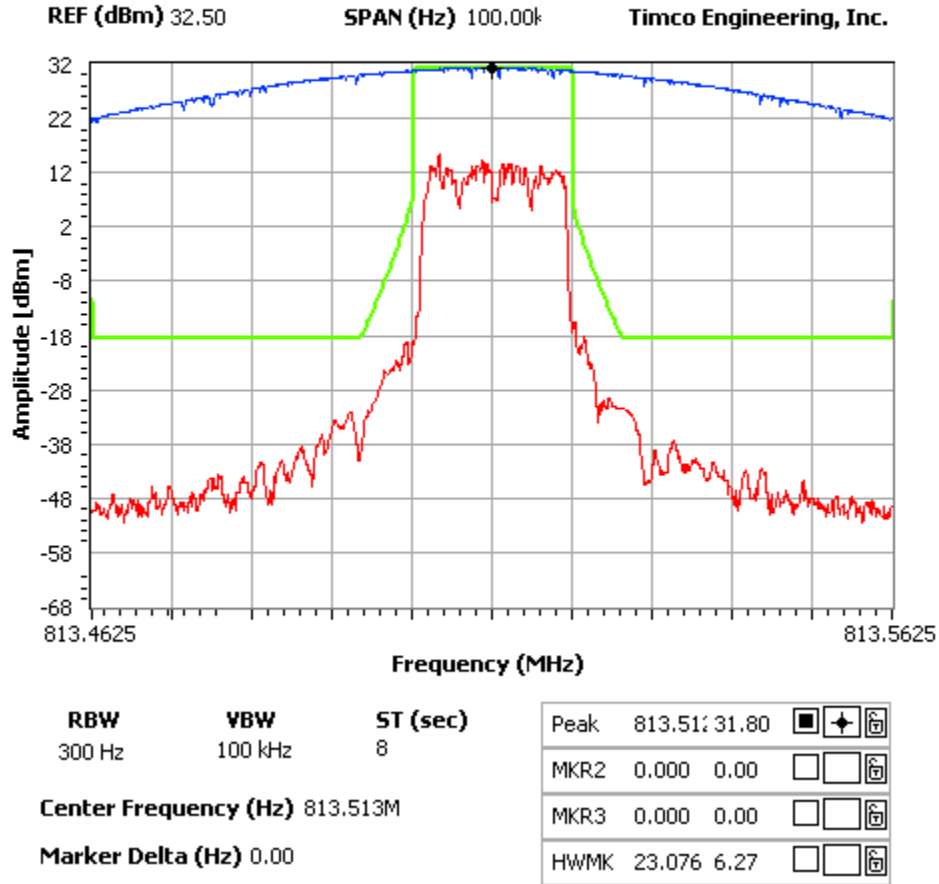


Applicant: MOTOROLA MOBILITY, INC.  
 FCC ID: IHDT56NQ2  
 IC CERT #: 109O-T56NQ2  
 Report: O:\M\MOTOROLA IL LL\1064AUT12\1064AUT12TestReport\_Rev2.doc

**NOTES:**

MOTOROLA MOBILITY, INC. Libertyville, IL - FCC ID: IHDT56NQ2  
 OCCUPIED BANDWIDTH PLOT - (6-1: 813.5125 MHz)

**FCC 90.210 Mask G**

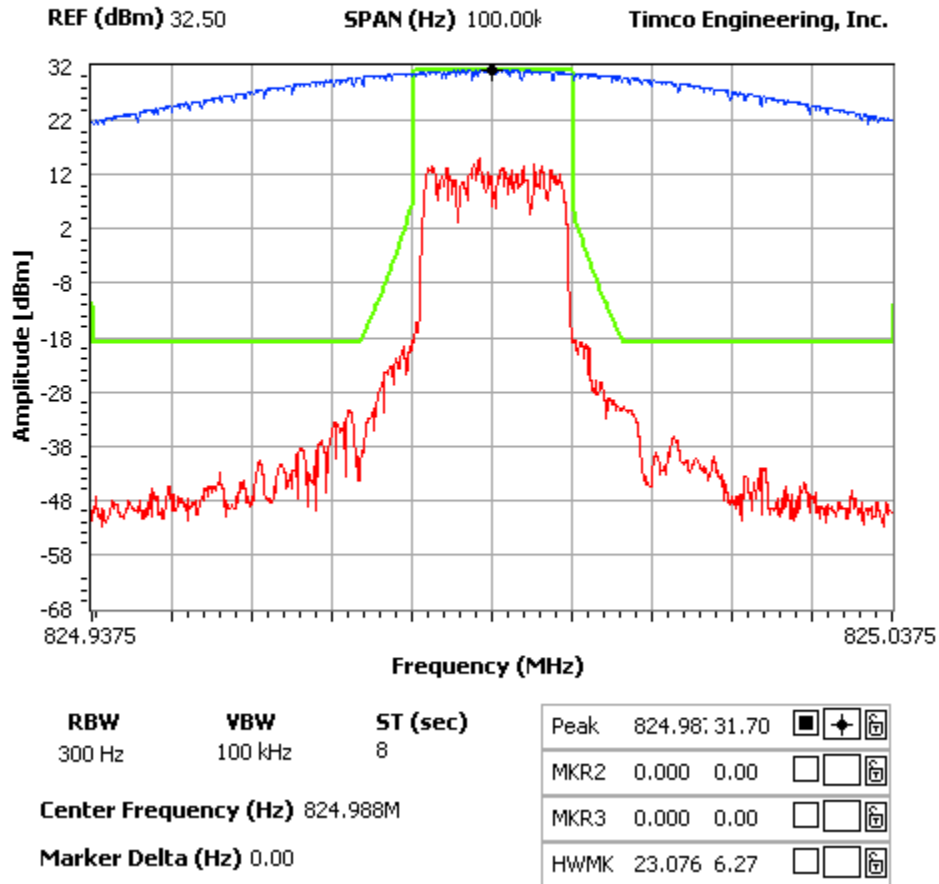


Applicant: MOTOROLA MOBILITY, INC.  
 FCC ID: IHDT56NQ2  
 IC CERT #: 109O-T56NQ2  
 Report: O:\M\MOTOROLA IL LL\1064AUT12\1064AUT12TestReport\_Rev2.doc

**NOTES:**

MOTOROLA MOBILITY, INC. Libertyville, IL - FCC ID: IHDT56NQ2  
 OCCUPIED BANDWIDTH PLOT - (6-1: 824.9875 MHz)

**FCC 90.210 Mask G**



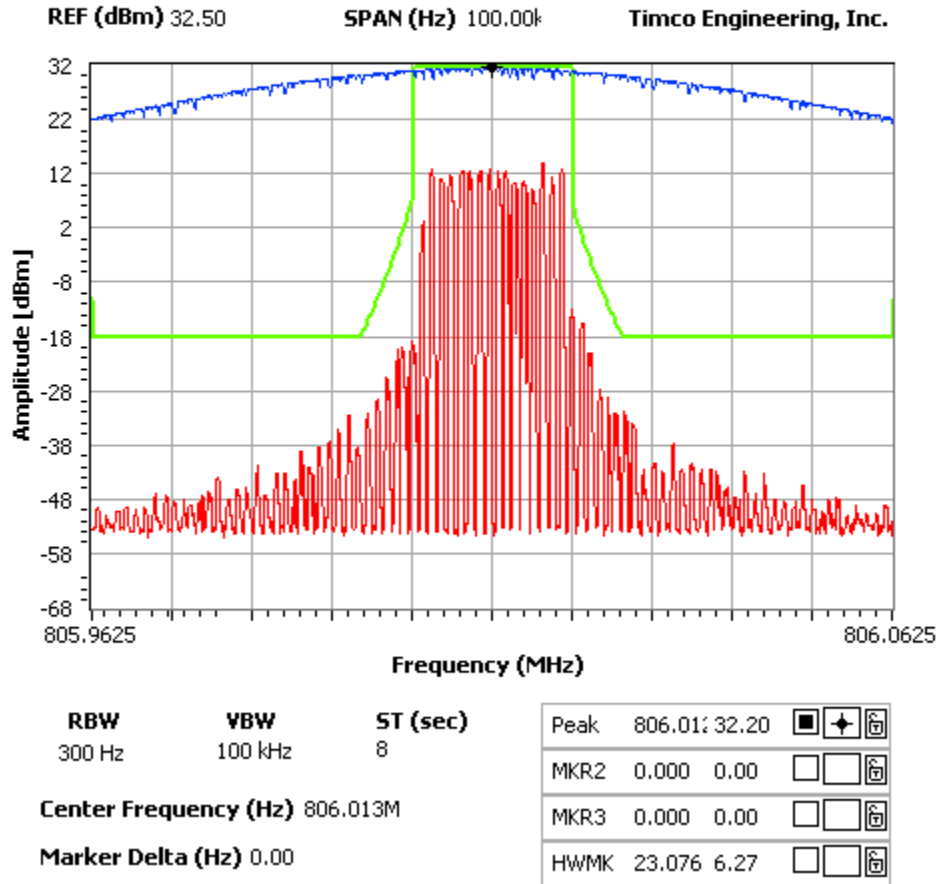
Applicant: MOTOROLA MOBILITY, INC.  
 FCC ID: IHDT56NQ2  
 IC CERT #: 109O-T56NQ2  
 Report: O:\M\MOTOROLA IL LL\1064AUT12\1064AUT12TestReport\_Rev2.doc

### PACKET DATA OCCUPIED BANDWIDTH PLOTS

**NOTES:**

MOTOROLA MOBILITY, INC. Libertyville, IL - FCC ID: IHDT56NQ2  
 OCCUPIED BANDWIDTH PLOT - (data: 806.0125 MHz)

**FCC 90.210 Mask G**

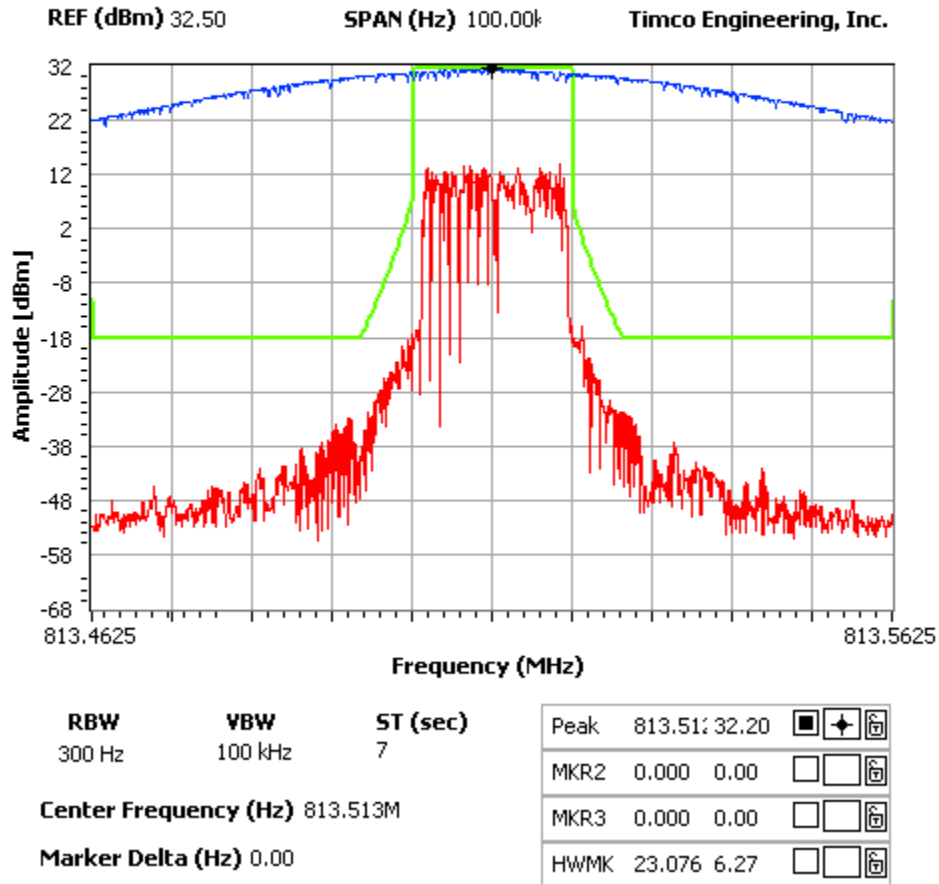


Applicant: MOTOROLA MOBILITY, INC.  
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**NOTES:**

MOTOROLA MOBILITY, INC. Libertyville, IL - FCC ID: IHDT56NQ2  
 OCCUPIED BANDWIDTH PLOT - (data: 813.5125 MHz)

**FCC 90.210 Mask G**

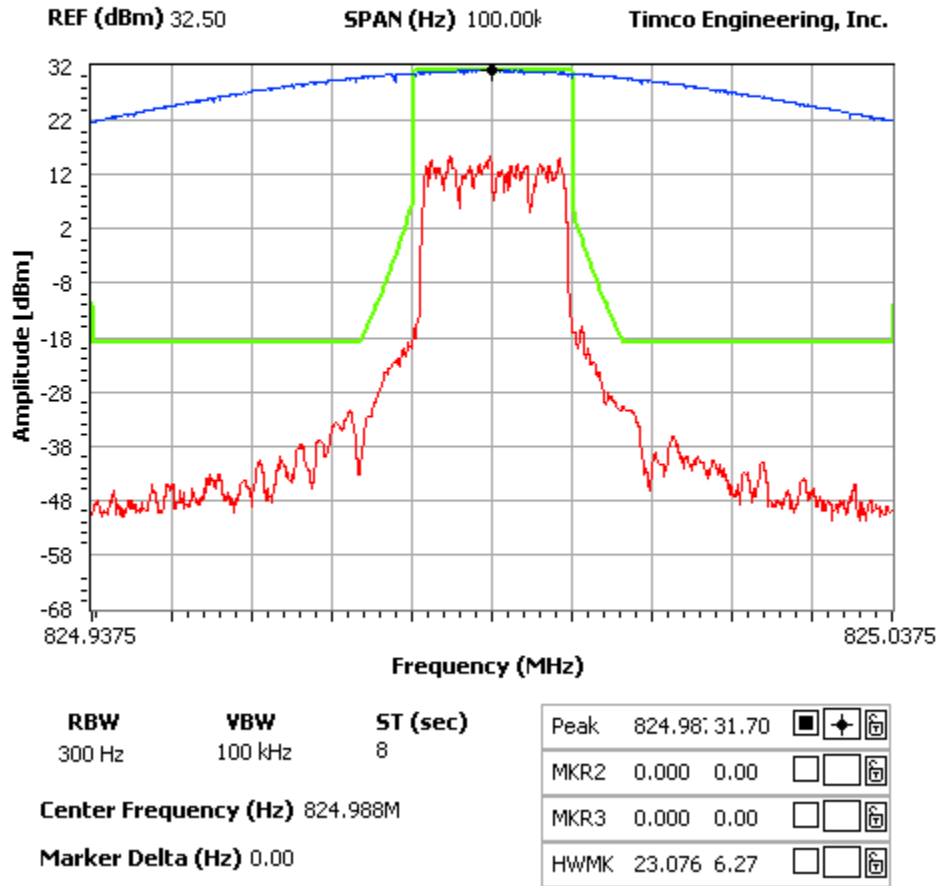


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**NOTES:**

MOTOROLA MOBILITY, INC. Libertyville, IL - FCC ID: IHDT56NQ2  
 OCCUPIED BANDWIDTH PLOT - (data: 824.9875 MHz)

**FCC 90.210 Mask G**



Applicant: MOTOROLA MOBILITY, INC.  
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**SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)**

**Rule Part No.:** FCC Part 2.1051(a), RSS-GEN 7.1.4

**Requirements:** 25 kHz Channel Spacing = 50 dBc (for 1 Watts)  
 $50 + 10\log(P) = 50 + 10\log(1.0) = 50.0 \text{ dB}$

**Method of Measurement:** The carrier was modulated 100% using a 2500 Hz tone. The spectrum was scanned from 0.4 to at least the 10th harmonic of the fundamental. The measurements were made in accordance with standard ANSI/TIA 603-C: 2004.

FCC Limit for:  
 25 kHz Channel Spacing = 50  
 12.5 kHz Spacing = 57  
 6.25 kHz Channel Spacing = N/A

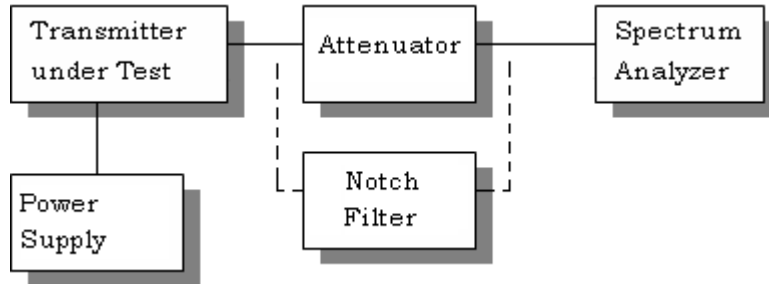
**Test Data: iden 800: (806 – 824) MHz**

TF HIGH POWER	EF	dB below carrier		TF LOW POWER	EF	dB below carrier
<b>806.0125</b>	1612.03	84.3		<b>813.5125</b>	1627.03	87.2
	2418.04	68.6			2440.54	69.9
	3224.05	79.8			3254.05	79.7
	4030.06	80.2			4067.56	81.6
	4836.08	79.5			4881.08	81.2
	5642.09	81.2			5694.59	80.5
	6448.10	76.5			6508.10	75.7
	7254.11	75.8			7321.61	78.6
	8060.13	75.3			8135.13	77

TF HIGH POWER	EF	dB below carrier				
<b>824.9875</b>	1649.98	87.2				
	2474.96	68.5				
	3299.95	80.6				
	4124.94	80.1				
	4949.93	81.1				
	5774.91	76.1				
	6599.90	75.4				
	7424.89	76.4				
	8249.88	76.8				

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### Method of Measuring Conducted Spurious Emissions



**METHOD OF MEASUREMENT:** The procedure used was ANSI/TIA 603-C: 2004. The measurements were made at TIMCO ENGINEERING INC. 849 N.W. State Road 45, Newberry, Florida 32669.

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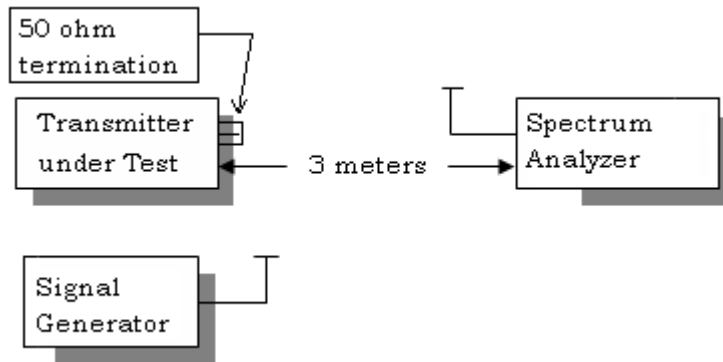
**FIELD STRENGTH OF SPURIOUS EMISSIONS**

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

**Requirements:** The FCC limits for radiated emissions are the same as previously stated for the conducted emissions.

**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:**



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**Test Data: iDEN 800: (806 – 824) MHz**

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
806.01	0	0
1612.03	H	80
2418.04	V	85.6
3224.05	V	85.7
4030.06	H	84.4
4836.08	H	85.2
5642.09	H	84.6
6448.10	H	83.3
7254.11	V	82.6
8060.13	H	80.7

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
813.51	0	0
1627.03	V	77.5
2440.54	H	85.6
3254.05	H	85.1
4067.56	H	84.4
4881.08	V	83.8
5694.59	V	84.2
6508.10	H	81.5
7321.61	V	82
8135.13	V	81.6

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
824.99	0	0
1649.98	V	81.9
2474.96	H	88.2
3299.95	H	87.2
4124.94	H	84.9
4949.93	V	85.8
5774.91	V	86.2
6599.90	H	83.7
7424.89	V	83
8249.88	V	83.5

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**FREQUENCY STABILITY**

**Rule Parts. No.:** FCC Part 2.1055, Part 90.213, RSS-119 5.3, RSS-GEN 7.2.4

**Requirements:** Temperature range requirements: -30 to +50° C.  
Voltage Variation +, -15%  
±1.5 PPM

**Method of Measurements:** ANSI/TIA 603-C:2004

**Test Data:**

<b>Temperature (°C)</b>	<b>Frequency (Hz)</b>	<b>Frequency Stability (PPM)</b>
-30	-102.	-0.13
-20	-90.	-0.11
-10	-70.	-0.09
0	-45.	-0.06
+10	-21.	-0.03
+20	-10.	-0.01
+30	0.0	0.00
+40	5.	0.01
+50	0.	0.00
+60	-10.	0.01

<b>Battery (V)</b>	<b>Frequency (MHz)</b>	<b>Frequency Stability (PPM)</b>
4.2	-12	0.015
3.7	0	0
3.55	-10.0	0.012

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### EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3-Meter Semi-Anechoic Chamber	Panashield	N/A	N/A	Listed 5/1/12	5/1/14
AC Voltmeter	HP	400FL	2213A14499	CAL 6/12/11	6/12/13
Antenna: Active Loop	ETS-Lindgren	6502	00062529	CAL 9/23/10	9/23/12
Frequency Counter	HP	5385A	2730A03025	CAL 8/17/11	8/17/13
Hygro-Thermometer	Extech	445703	0602	CAL 6/15/11	6/15/13
Modulation Analyzer	HP	8901A	3435A06868	CAL 7/18/11	7/18/13
Digital Multimeter	Fluke	FLUKE-77	35053830	CAL 9/9/11	9/9/13
Power Meter	Boonton Electronics	4531	11793	CAL 11/12/2010	11/12/2012
EMI Receiver	Rohde & Schwarz	ESIB40	100274	CAL 3/16/2012	3/16/2014
Analyzer Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 10/28/11	10/28/13
Analyzer Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 10/28/11	10/28/13
Analyzer Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 10/28/11	10/28/13
Analyzer Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 10/28/11	10/28/13
Antenna	ETS	3117	35923	12/7/2011	12/7/2013
Antenna	Electro metrics	LPA-25	1122	5/04/2011	5/04/2013
Antenna	Electro metrics	BIA-25	1096	5/04/2011	5/04/2013

Applicant: MOTOROLA MOBILITY, INC.  
 FCC ID: IHDT56NQ2  
 IC CERT #: 1090-T56NQ2  
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