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MEASUREMENT REPORT FCC Part 15C / Industry Canada RSS-210

Applicant Name:
Motorola Mobility, Inc.
8000 West Sunrise Blvd.
Plantation, FL 33322
United States

Date of Testing:
5/9-5/14/2014, 6/4/2014
Test Site/Location:
PCTEST Lab, Columbia, MD, USA
Test Report Serial No.:
0Y1405050920.IHD-R1

FCC ID:	IHDT6QC2
IC CERTIFICATION NO.:	1090-T6QC2
APPLICANT:	Motorola Mobility, Inc.

Application Type: Certification
EUT Type: Wireless Charger
Model(s): SPN5845A
FCC Rule Part(s): FCC Part 15
IC Specification(s): RSS-210
FCC Classification: Part 15 Low Power Transmitter Below 1705 kHz (DCD)
Operating Frequency: 112 – 205 kHz
Test Procedure: ANSI C63.4-2009

The device bearing the FCC Identifier specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and has been tested in accordance with the measurement procedures specified in ANSI C63.4-2009. The results shown herein are also deemed satisfactory evidence of compliance with Industry Canada Interference-Causing Equipment Standard ICES-003. These measurements were performed with no deviation from the standards. Test results reported herein relate only to the item(s) tested.

I authorize and attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

This revised Test Report (S/N: 0Y1405050920.IHD-R1) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) (S/N: 0Y1405050920.IHD) and dispose of it accordingly.

NVLAP accreditation does not constitute any product endorsement by NVLAP or any agency of the United States Government. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.



Randy Ortanez
President



FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger		Page 1 of 16

TABLE OF CONTENTS

FCC Part 15 MEASUREMENT REPORT.....		3
1.0 INTRODUCTION		4
1.1 SCOPE		4
1.2 PCTEST TEST LOCATION		4
2.0 PRODUCT INFORMATION.....		5
2.1 EQUIPMENT DESCRIPTION		5
2.2 TEST CONFIGURATION		5
2.3 EMI SUPPRESSION DEVICE(S)/MODIFICATIONS		5
2.4 LABELING REQUIREMENTS		5
3.0 DESCRIPTION OF TEST		6
3.1 EVALUATION PROCEDURE		6
3.2 AC LINE CONDUCTED EMISSIONS		6
3.3 RADIATED EMISSIONS.....		7
4.0 SAMPLE CALCULATIONS		8
4.1 CONDUCTED EMISSION MEASUREMENT SAMPLE CALCULATION		8
4.2 RADIATED EMISSION MEASUREMENT SAMPLE CALCULATION		8
5.0 TEST EQUIPMENT CALIBRATION DATA		9
6.0 ENVIRONMENTAL CONDITIONS.....		10
7.0 TEST DATA		11
7.1 SUMMARY		11
7.2 TEST SUPPORT EQUIPMENT		11
7.3 RADIATED MEASUREMENT DATA		12
7.4 LINE CONDUCTED MEASUREMENT DATA		14
8.0 CONCLUSION.....		16

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger		Page 2 of 16



MEASUREMENT REPORT

FCC Part 15



§ 2.1033 General Information

APPLICANT: Motorola Mobility, Inc.
APPLICANT ADDRESS: 8000 West Sunrise Blvd.
 Plantation, FL 33322
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 7185 Oakland Mills Road, Columbia, MD 21046 USA
FCC ID: IHDT6QC2
Test Device Serial No.: 5May-5 Production Pre-Production Engineering
DATE(S) OF TEST: 5/9-5/14/2014, 6/4/2014



Test Methodology

Both conducted and radiated measurements were taken using the methods and procedures described in ANSI C63.4-2009. Radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility / NVLAP Accreditation

Conducted and radiated tests were performed at PCTEST Engineering Lab in Columbia, MD 21046, U.S.A.

- PCTEST facility is an FCC registered (PCTEST Reg. No. 159966) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (2451B-1).
- PCTEST Lab is accredited by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) in EMC, Telecommunication, and FCC for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. (NVLAP Lab code: 100431-0).
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (2451B-1) test laboratory with the site description on file at Industry Canada.

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger		Page 3 of 16

1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2 PCTEST Test Location

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity, the Baltimore-Washington Intern't'l (BWI) airport, the city of Baltimore and the Washington, DC area. (See Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The site coordinates are 39° 10'23" N latitude and 76° 49'50" W longitude. The facility is 0.4 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on February 15, 2012.

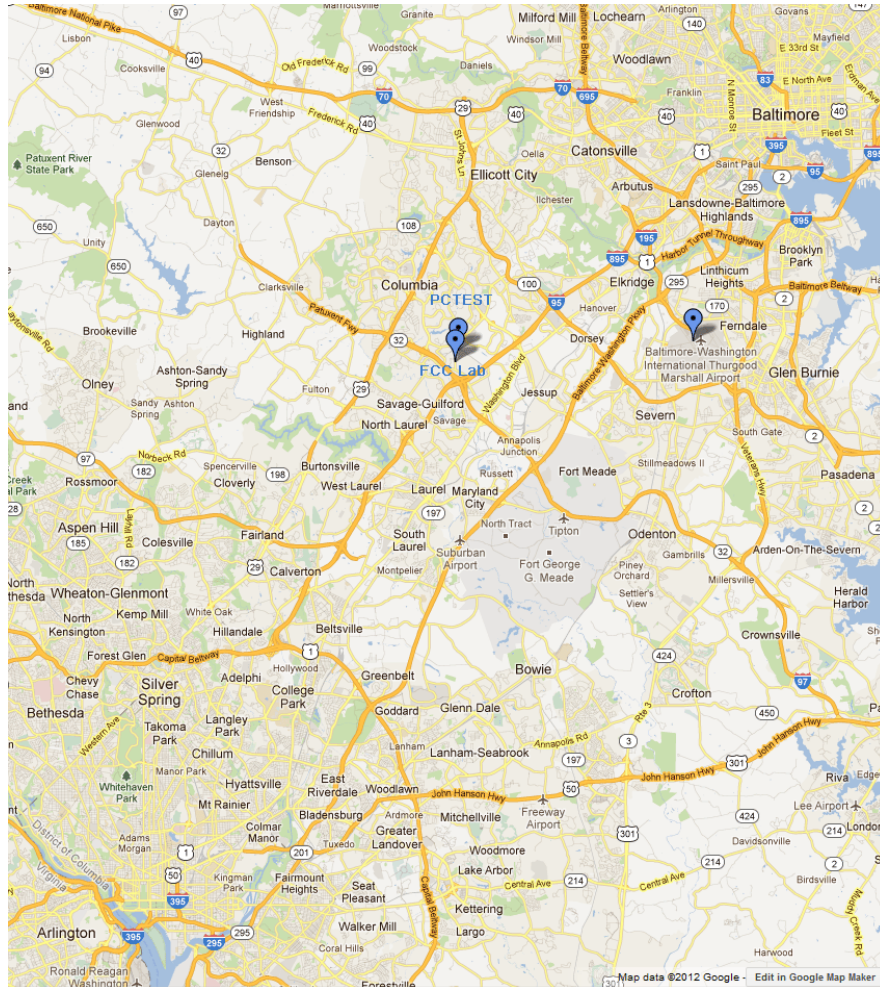




Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)	 Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger	Page 4 of 16

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Motorola Wireless Charger FCC ID: IHDT6QC2**. The test data contained in this report pertains only to the emissions due to the charging circuitry of the EUT.

2.2 Test Configuration

The **Motorola Wireless Charger FCC ID: IHDT6QC2** was tested while charging the Motorola Portable Smart Watch FCC ID: IHDT6QC1. Testing was performed with the Smart Watch at three different battery levels: depleted, medium, and fully charged. After investigating emissions in all three battery states, the worst case emissions were found to be with the battery in a depleted state. The EUT was manipulated through different positions to obtain worst case emissions. The test data shown in this report pertains only to the worst case EUT positioning and battery state.



2.3 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

2.4 Labeling Requirements

Per 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger	Page 5 of 16	

3.0 DESCRIPTION OF TEST

3.1 Evaluation Procedure

The measurement procedure described in the *American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz* (ANSI C63.4-2009) was used in the measurement of the **Motorola Wireless Charger FCC ID: IHDT6QC2**.

Deviation from measurement procedure.....None



3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 10'x16'x9' shielded enclosure. The shielded enclosure is manufactured by ETS Lindgren RF Enclosures. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI/RFI filters are ETS Lindgren Model LRW-2030-S1 (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or resolution, clock or data exchange speed, scrolling H pattern to the EUT and/or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 0. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 8.51.0.



FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger	Page 6 of 16	

3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An ETS Lindgren Model 2188 raised turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 78cm high PVC support structure is placed on top of the turntable. A ¾" (~1.9cm) sheet of high density polyethylene is used as the table top and is placed on top of the PVC supports to bring the total height of the table to 80cm.

For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger	Page 7 of 16	

4.0 SAMPLE CALCULATIONS

4.1 Conducted Emission Measurement Sample Calculation

@ 20.3 MHz

Sample limit	=	60.0 dB μ V (Quasi-peak limit)
Reading	=	- 57.8 dBm (calibrated quasi-peak level)
Convert to dB μ V	=	- 57.8 + 107 = 49.2 dB μ V
Margin	=	49.2 - 60.0 = - 10.8 dB
	=	10.8 dB below limit

4.2 Radiated Emission Measurement Sample Calculation



@ 66.7 MHz

Sample limit	=	100 μ V/m = 40.0 dB μ V/m
Reading	=	- 76.0 dBm (calibrated level)
Convert to dB μ V	=	- 76.0 + 107 = 31.0 dB μ V
Antenna Factor + Cable Loss	=	5.8 dB/m
Total	=	36.8 dB μ V/m
Margin	=	36.8 - 40.0 = - 3.2 dB
	=	3.2 dB below limit

Note:

$$\text{Level [dB}\mu\text{V]} = 20 \log_{10} (\text{Level } [\mu\text{V/m}])$$

$$\text{Level [dB}\mu\text{V]} = \text{Level [dBm]} + 107$$

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger	Page 8 of 16	

5.0 TEST EQUIPMENT CALIBRATION DATA



Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	RE1	Radiated Emissions Cable Set (UHF/EHF)	3/25/2014	Annual	3/25/2015	N/A
Agilent	8447D	Broadband Amplifier	5/31/2013	Annual	5/31/2014	2443A01900
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	6/26/2013	Annual	6/26/2014	121034
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	1/27/2014	Annual	1/27/2015	100342
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/28/2014	Biennial	1/28/2016	A051107

Table 5-1. Annual Test Equipment Calibration Schedule

Note:

The Agilent 8447D amplifier was not used for testing on 06/04/2014.



FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger		Page 9 of 16

6.0 ENVIRONMENTAL CONDITIONS

The temperature is controlled within range of 15°C to 35°C.

The relative humidity is controlled within range of 10% to 75%.


The atmospheric pressure is controlled within the range 86-106kPa (860-1060mbar).

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger		Page 10 of 16

7.0 TEST DATA

7.1 Summary

Test Date(s): 5/9-5/14/2014, 6/4/2014

Test Engineer: 

FCC Part 15 Section	IC RSS Section	Description	Result
15.207	RSS-210 Section 2	Conducted Emissions	PASS
15.209	RSS-210 Section 2	Radiated Emissions	PASS

Table 7-1. Summary of Test Results

7.2 Test Support Equipment

1	Motorola AC Adapter	Model: MOT-C-0003ADUUS	S/N: N/A
		1.2m Cable with Micro-USB Port	
2	Motorola Smart Watch	Model: Moto 360	S/N: 5MAY-1

Table 7-2. Test Support Equipment Used

Note: See test setup photographs for actual system test setup.

7.3 Radiated Measurement Data



§15.209, RSS-210

Frequency [MHz]	Level [dBm]	Pol [H/V]	Height [m]	Field Strength [dB μ V/m]	Limit [μ V/m]	Distance of Specified Limit [m]	Corrected Limit [dB μ V/m] @ 3m	Margin [dB]
0.166	-27.48	V	1.4	79.52	14.46	300	103.20	-23.68
0.320	-52.45	V	1.0	54.55	7.50	300	97.50	-42.95
0.491	-55.93	V	1.5	51.07	48.88	30	73.78	-22.71
1.070	-63.51	V	1.0	43.49	22.43	30	67.02	-23.53
1.330	-66.25	V	1.1	40.75	18.05	30	65.13	-24.38
29.590	-66.94	V	1.1	40.06	30.00	30	69.54	-29.48

Table 7-3. Radiated Measurements at 3-meters (Below 30MHz)

NOTES:

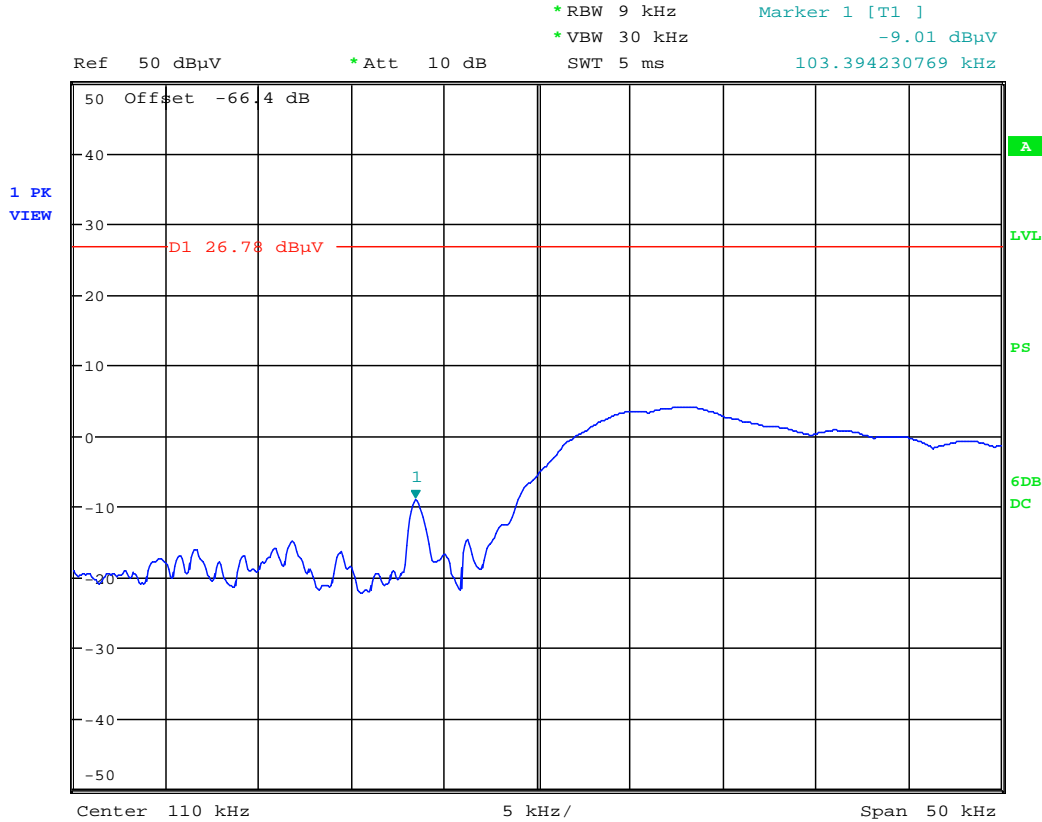
- All modes of operation were investigated and the worst-case emissions are reported.
- Radiated emissions were measured from 9kHz - 30MHz to ensure that the provisions of Part 15.33 are satisfied with respect to the upper and lower frequency scanning range.
- All readings are calibrated by a signal generator with accuracy traceable to the National Institute of Standards and Technology (NIST).
- Level (dB μ V/m) = Analyzer Reading (dBm) + 107
- Margin (dB) = Field strength (dB μ V/m) – Corrected Limit @3m (dB μ V/m)
- In measurements for emissions below 30MHz (Table 7-3), the Com-Power Active Loop Antenna was used. The antenna was positioned in three orthogonal planes (X front, Y side, Z top) and the position with the highest emission level is reported above.
- Calibrated low-loss microwaves cables are used.
- Measurements were performed at 3m and the field strength limit was adjusted using a 40dB/decade attenuation factor as specified in Part 15.31(f)(2).
- Per 15.209(d), emissions in the table above employed a CISPR quasi-peak detector except in 110 – 490kHz band where an average detector may be employed.
- In the 110 – 490kHz band, the peak emission levels were found to comply with the peak limit specified in 15.209(e) of 20dB greater than the corresponding frequency dependent average limits specified in 15.209(a).

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger		Page 12 of 16

Radiated Measurement Data (Cont'd)

§15.209, RSS-210

The following plot shows the peak radiated band edge emission level measured at the start of the 110kHz restricted band while the Smart Watch was charging on the wireless charger with a near depleted battery.



Date: 4 JUN. 2014 14:10:21

Figure 7-1. Radiated Band Edge Plot

Notes:

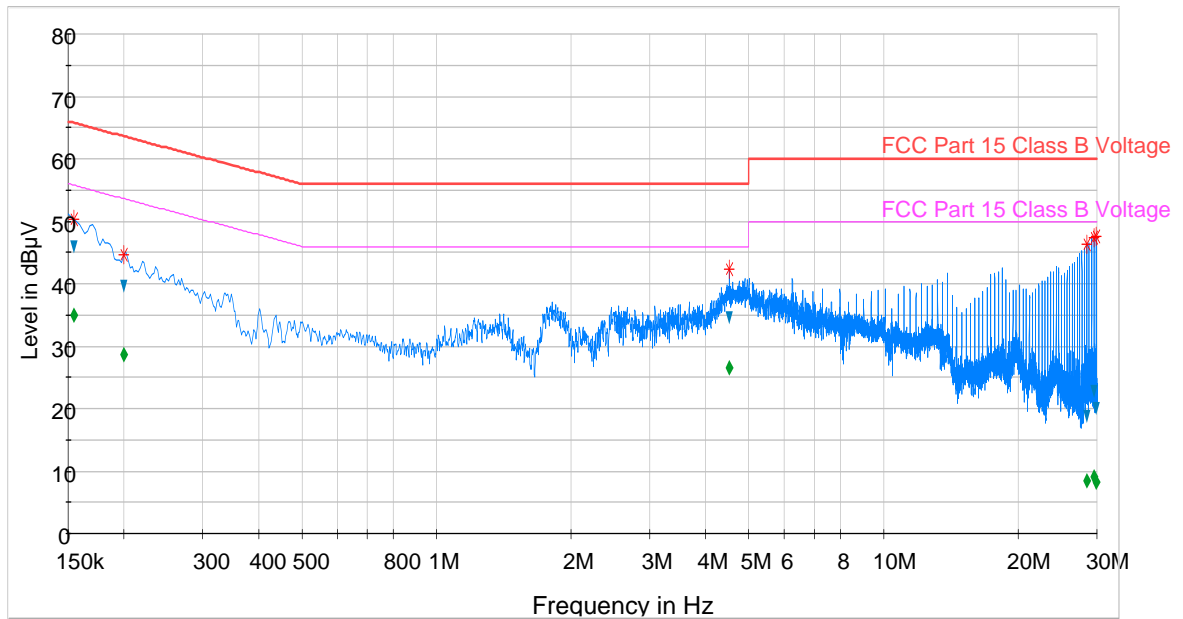
1. The average limit at 110kHz, per 15.209(a), is 26.78dBµV/m.
2. The trace in Figure 7-1 was generated using a peak detector which is shown to comply with the average limit.
3. The offset shown in the plot was obtained by using the following formula:

$$\text{Offset}_{[dB]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Distance Correction Factor}_{[dB]}$$
4. A distance correction factor of 80dB was used, per 15.31(f)(2), since the limit is specified at a distance of 300 meters but testing was performed at 3 meters.

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger		Page 13 of 16

7.4 Line Conducted Measurement Data

§15.207, RSS-210



Plot 7-1. Line Conducted Plot (L1)

Frequency	Line	Corr.	QuasiPeak	Limit	Margin	Average	Limit	Margin
MHz		dB	dBµV	dBµV	dB	dBµV	dBµV	dB
0.154500	L1	0.2	45.95	65.75	19.80	34.96	55.75	20.79
0.199500	L1	0.2	39.58	63.63	24.05	28.72	53.63	24.91
4.517250	L1	0.2	34.46	56.00	21.54	26.59	46.00	19.41
28.491000	L1	0.8	18.74	60.00	41.26	8.39	50.00	41.61
29.530500	L1	0.8	22.75	60.00	37.25	9.06	50.00	40.94
29.877000	L1	0.8	20.10	60.00	39.90	8.12	50.00	41.88

Table 7-4. Line Conducted Data (L1)

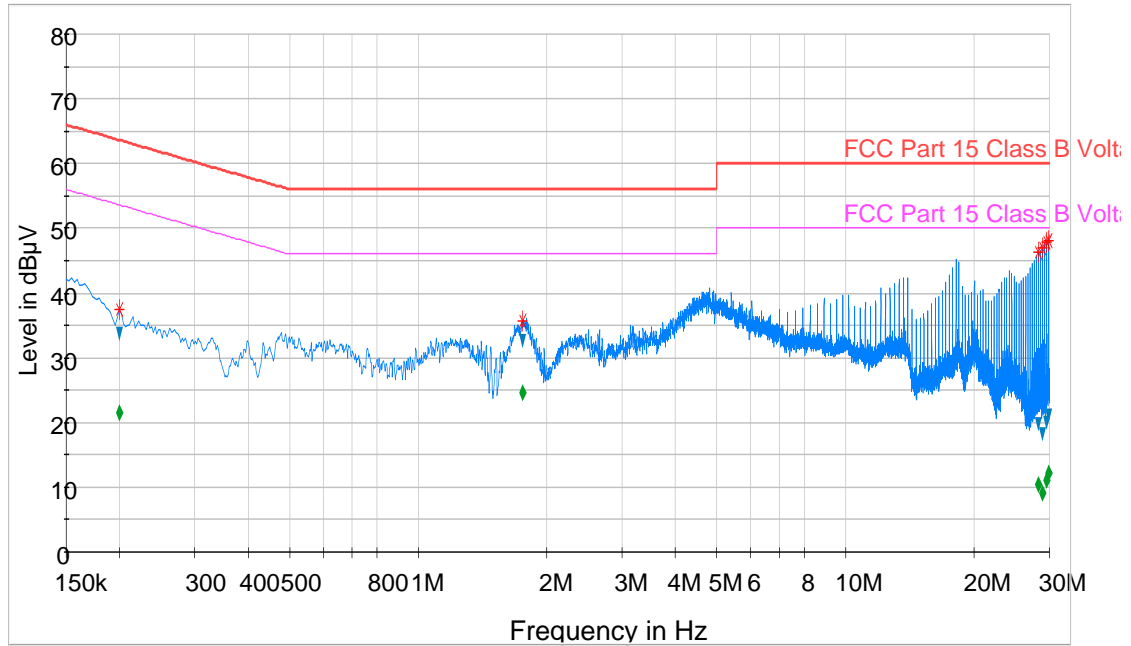
Notes:

- All battery states were investigated and the worst-case emissions are reported with a depleted battery.
- L1 = Phase; LN = Neutral
- Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Reading (dBµV) + Factor (dB)
- Margin (dB) = QP/AV Limit (dBµV) – QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)			Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger			Page 14 of 16

Line Conducted Measurement Data (Cont'd)

§15.207, RSS-210



Plot 7-2. Line Conducted Plot (LN)

Frequency	Line	Corr.	QuasiPeak	Limit	Margin	Average	Limit	Margin
MHz		dB	dBµV	dBµV	dB	dBµV	dBµV	dB
0.199500	N	0.2	33.74	63.63	29.89	21.45	53.63	32.18
1.756500	N	0.2	32.50	56.00	23.50	24.55	46.00	21.45
28.304250	N	0.9	19.65	60.00	40.35	10.40	50.00	39.60
28.936500	N	0.9	18.07	60.00	41.93	9.17	50.00	40.83
29.571000	N	0.9	19.84	60.00	40.16	11.17	50.00	38.83
29.892750	N	0.9	21.14	60.00	38.86	12.23	50.00	37.77

Table 7-5. Line Conducted Data (LN)



Notes:

- All battery states were investigated and the worst-case emissions are reported with a depleted battery.
- L1 = Phase; LN = Neutral
- Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Reading (dBµV) + Factor (dB)
- Margin (dB) = QP/AV Limit (dBµV) – QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger		Page 15 of 16

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Motorola Wireless Charger FCC ID: IHDT6QC2** has been tested to comply with the requirements specified in Part 15 of the FCC Rules and RSS-210 of the Industry Canada rules.

FCC ID: IHDT6QC2		FCC Pt. 15 MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405050920.IHD-R1	Test Dates: 5/9-5/14/2014, 6/4/2014	EUT Type: Wireless Charger		Page 16 of 16