



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT2013-2  
**FCC ID** : IHDT56YD2  
**STANDARD** : FCC Part 15 Subpart C §15.247  
**CLASSIFICATION** : (DTS) Digital Transmission System

This is a data re-used report which is only valid together with the original test report. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

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## APPENDIX A. REFERENCE REPORT



### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR932901-01B	Rev. 01	Initial issue of report	Jun. 17, 2019



# 1 General Description

## 1.1 Applicant

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2013-2
FCC ID	IHDT56YD2
EUT supports Radios application	GSM/WCDMA/LTE/ WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE FM Receiver/GNSS/NFC
HW Version	DVT2
SW Version	PSB29.21
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)
Antenna Type / Gain	Fixed Internal PIFA Antenna with gain -0.50 dBi
Type of Modulation	Bluetooth LE : GFSK

## 1.4 Modification of EUT

No modifications are made to the EUT during all test items.



## 1.5 Re-use of Measured Data

### 1.6.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2013-2, FCC ID: IHDT56YD2) is electrically identical to the reference device (Model: XT2013-1, FCC ID: IHDT56YD1) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

### 1.6.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration.

The re-used RF data includes the following bands provided in Appendix A (Sporton RF Report No. FR932901B for the reference device Model: XT2013-1, FCC ID: IHDT56YD1).

### 1.6.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
DSS (BR/EDR)	IHDT56YD1	Part15C (FR932901A)	All sections applicable
DTS (BLE)	IHDT56YD1	Part15C (FR932901B)	All sections applicable
DTS (WLAN)	IHDT56YD1	Part15C (FR932901C)	All sections applicable
DXX (NFC)	IHDT56YD1	Part15C (FR932901D)	All sections applicable



1.6.4 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for the radiated spurious emission, the test result were consistent with FCC ID: IHDT56YD1.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

Test Item	Mode	IHDT56YD1 Worst Result	IHDT56YD2 Worst Result	Difference (dB)
Peak Conducted Power (dBm)	BT (1Mbps)	8.89	8.78	-0.11
	BT (2Mbps)	8.53	8.45	-0.08
	BT (3Mbps)	9.37	9.07	-0.3
	BT LE4.0	8.99	8.83	-0.16
	BT LE5.0	9.45	8.96	-0.49
	802.11b	21.5	19.82	-1.68
	802.11g	26.08	25.76	-0.32
	11n HT20	26.45	26.01	-0.44
Radiated Spurious Emission (dBuV/m)	BT (BR/EDR)	55.42	58.30	2.88
	BT (LE4.0)	47.97	48.37	0.40
	BT (LE5.0)	39.95	43.03	3.08
	802.11n-HT20	45.39	46.41	1.02
	NFC	36.22	34.98	-1.24



## **Appendix A. Reference Report**

Please refer to Sporton report number FR932901B which is issued separately.