



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : T-Mobile  
**MODEL NAME** : XT1952-T  
**FCC ID** : IHDT56XR4  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

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
FR913102D	Rev. 01	Initial issue of report	Apr. 23, 2019



# 1 General Description

## 1.1 Applicant

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	T-Mobile
Model Name	XT1952-T
FCC ID	IHDT56XR4
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth BR / EDR/ LE
HW Version	DVT 2
SW Version	PCY29.123
EUT Stage	Production Unit

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

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Antenna Gain / Gain	<5180 MHz ~ 5240 MHz> Monopole Antenna with gain -1.20 dBi <5260 MHz ~ 5320 MHz > Monopole Antenna with gain -1.30 dBi <5500 MHz ~ 5700 MHz> Monopole Antenna with gain -1.40 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)



## **1.5 Modification of EUT**

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



## 1.6 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: XT1952-T, FCC ID: IHDT56XR4) is electrically identical to the reference device (Model: XT1952-3, XT1952-4, XT1952DL, FCC ID: IHDT56XR1) 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. FR892103D for the reference device Model: XT1952-3, XT1952-4, XT1952DL, FCC ID: IHDT56XR1).

### 1.6.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
NII (B1~3)	IHDT56XR1	Part15E(FR892103D)	All sections applicable
NII (B4)	IHDT56XR1	Part15E(FR892103E)	All sections applicable
NII (DFS)	IHDT56XR1	Part15E(FZ892103)	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: IHDT56XR1.

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	IHDT56XR1 Worst Result	IHDT56XR4 Worst Result	Difference (dB)
Peak Conducted Power (dBm)	11a	18.17	18.01	0.16
	11n-HT20	18.09	17.90	0.19
	11n-HT40	16.23	16.02	0.21
Radiated Spurious Emission (dBuV/m)	802.11a	64.44	61.54	-2.9
	802.11n-HT40	54.95	52.77	-2.18



## **Appendix A. Reference Report**

Please refer to Sporton report number FR892103D which is issued separately.