

FCC RF Test Report

APPLICANT	: Motorola Mobility LLC
EQUIPMENT	: Mobile Cellular Phone
BRAND NAME	: Motorola
MODEL NAME	: XT2127-1
FCC ID	: IHDT56ZM4
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 (ShenZhen) 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 (ShenZhen) Inc., the test report shall not be reproduced except in full.

Dosque Cheri

Reviewed by: Derreck Chen / Supervisor

File Shih

Approved by: Eric Shih / Manager



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR0O2013-01B	Rev. 01	Initial issue of report	Dec. 11, 2020

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	Motorola		
Model Name	XT2127-1		
FCC ID	IHDT56ZM4		
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 and GNSS		
HW Version	DVT2		
SW Version	RRB31.30		
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.

1.4 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	PIFA Antenna type with gain -2.50 dBi		
Type of Modulation	Bluetooth LE : GFSK		

1.5 Modification of EUT

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





1.6 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for

Test Firm	Sporton International (Shenzhen) Inc.					
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595					
	Sporton Site No.	FCC Designation No.	FCC Test Firm			
Test Site No.		5	Registration No.			
	TH01-SZ	CN1256	421272			

Laboratory Accreditation with Certificate Number 5145.01.

1.7 Re-use of Measured Data

1.7.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2127-1, FCC ID: IHDT56ZM4) is electrically identical to the reference device (Model: XT2127-2, FCC ID: IHDT56ZM2) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

1.7.2 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. FR0O2013B for the reference device Model: XT2127-2, FCC ID: IHDT56ZM2).



Equipment Class Reference FCC ID		Folder Test	Report Title/Section	
DSS (BR/EDR)	IHDT56ZM2	Part15C(FR0O2013A)	All sections applicable	
DTS (BLE)	IHDT56ZM2	Part15C(FR0O2013B)	All sections applicable	
DTS (WLAN)	IHDT56ZM2	Part15C(FR0O2013C)	All sections applicable	

1.7.3 Reference detail Section:

1.7.4 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 following test items, the test result were consistent with FCC ID: IHDT56ZM2.

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	IHDT56ZM2 Worst Result	IHDT56ZM4 Worst Result	Difference (dB)
	BT2.0 DH1 CH39	11.3	11.3	0
Conducted	BLE CH19	6.1	6	0.1
Power	802.11b CH11	18.5	18.5	0
(dBm)	802.11g CH1	17.8	17.5	0.3
	11n HT20 CH1	17.8	17.5	0.3



2 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 17, 2020	Dec. 07, 2020	Apr. 16, 2021	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Dec. 26, 2019	Dec. 07, 2020	Dec. 25, 2020	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Dec. 26, 2019	Dec. 07, 2020	Dec. 25, 2020	Conducted (TH01-SZ)



Appendix A. Reference Report

Please refer to Sporton report number FR0O2013B which is issued separately.