FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2113-3

FCC ID : IHDT56ZF4

STANDARD : 47 CFR Part 2, and 90(S)

CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Sep. 11, 2020 and completely tested on Sep. 15, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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.

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International (Kunshan) Inc.

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Report Version : Rev. 03

Report No.: FW082402-01

Report Template No.: BU5-FWLTE Version 2.0

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW082402-01	Rev. 01	Initial issue of report	Oct. 09, 2020
FW082402-01	Rev. 02	Update accessory list	Oct. 13, 2020
FW082402-01	Rev. 03	Revised FCC ID	Oct. 21, 2020

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark	
3.1	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 51.29 dB at 3276.000 MHz	

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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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 Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2113-3
FCC ID	IHDT56ZF4
	GSM/WCDMA/LTE/5G NR/NFC
	WLAN 2.4GHz 802.11b/g/n HT20
EUT cumports Padios application	WLAN 5GHz 802.11a/n HT20/HT40
EUT supports Radios application	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80
	Bluetooth BR/EDR/LE
	FM Receiver and GNSS
IMEI Code	Radiation: 355571110012953/355571110012961
HW Version	DVT2
SW Version	QZK30.Q4-23
EUT Stage	Identical Prototype

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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

Product Specification subjective to this standard							
Tx Frequency	814.7 ~ 823.3 MHz						
Rx Frequency	859.7 ~ 868.3 MHz						
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz						
Type of Modulation	QPSK / 16QAM / 64QAM						

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1.5 Modification of EUT

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

1.6 Specification of Accessory

Specification of Accessory							
AC Adapter 1(US)	Brand Name	Motorola (Chenyang)	Model Name	MC-201			
AC Adapter 1(EU)	Brand Name	Motorola (Chenyang)	Model Name	MC-202			
AC Adapter 1(UK)	Brand Name	Motorola (Chenyang)	Model Name	MC-203			
AC Adapter 1(AU)	Brand Name	Motorola (Chenyang)	Model Name	MC-205			
AC Adapter 1(AR)	Brand Name	Motorola (Chenyang)	Model Name	MC-206			
AC Adapter 1(BR)	Brand Name	Motorola (Chenyang)	Model Name	MC-207			
AC Adapter 2(US)	Brand Name	Motorola (Acbel)	Model Name	MC-201			
AC Adapter 2(EU)	Brand Name	Motorola (Acbel)	Model Name	MC-202			
AC Adapter 2(UK)	Brand Name	Motorola (Acbel)	Model Name	MC-203			
AC Adapter 2(AU)	Brand Name	Motorola (Acbel)	Model Name	MC-205			
AC Adapter 2(AR)	Brand Name	Motorola (Acbel)	Model Name	MC-206			
AC Adapter 2(CHILE)	Brand Name	Motorola (Acbel)	Model Name	MC-209			
AC Adapter 3(IN)	Brand Name	Motorola (Chenyang)	Model Name	MC-204			
AC Adapter 4(BR)	Brand Name	Motorola (Dynalf)	Model Name	MC-207			
AC Adapter 5(BR)	Brand Name	Motorola (Salcomp)	Model Name	MC-207			
Battery	Brand Name	Motorola (Amperex)	Model Name	MK50			
Earphone 1	Brand Name	Motorola (Lyand)	Model Name	MH191			
Earphone 2	Brand Name	Motorola(Lchse)	Model Name	MH191			
Earphone 3	Brand Name	Motorola (Lyand)	Model Name	MH181			
Earphone 4	Brand Name	Motorola (Cosonic)	Model Name	MH181			
USB Cable 1	Brand Name	Motorola (Saibao)	Model Name	SC18C24367			
USB Cable 2	Brand Name	Motorola (Luxshare)	Model Name	SC18C24368			
USB Cable 3	Brand Name	Motorola (I SHENG)	Model Name	SC18C28955			

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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: XT2113-3, FCC ID: IHDT56ZF4) is electrically identical to the reference device (Model: XT2113-2, XT2113-5, FCC ID: IHDT56ZF2) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

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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 C (Sporton RF Report No. FW082402B for the reference device Model: XT2113-2, XT2113-5, FCC ID: IHDT56ZF2).

1.7.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
PCE	IIIDTECZEO	Part 90S	All sections applicable
	IHDT56ZF2	(FW082402B)	except for RSE

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: IHDT56ZF2 and the RSE to re-test.

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	IHDT56ZF2 Worst Result	IHDT56ZF4 Worst Result	Difference (dB)	
Average Conducted Power (dBm)	Part 90S-LTE B26	22.93	22.53	0.4	

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1.8 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.						
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China						
	TEL: +86-512-57900158						
	FAX: +86-512-57900958						
	Sporton Site No.	FCC Designation No.	FCC Test Firm				
Test Site No.	oporton site No.	i co besignation No.	Registration No.				
	03CH04-KS	CN1257	314309				

1.9 Test Software

ĺ	Item	Site	Manufacture	Name	Version	
	1.	03CH04-KS	AUDIX	E3	6.2009-8-24a	

1.10 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

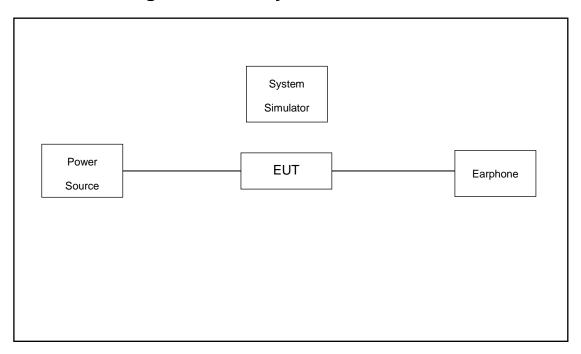
Frequency range investigated for radiated emission is 30 MHz to 10th harmonic.

Tool Home	Dand	Bandwidth (MHz)				Modulation			RB#			Test Channel				
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	٦	М	Н
Radiated Spurious Emission	. 26			Worst Case								v	v	v		
	2. The 3. LTE 15M	mark "- Band20	" mear 6 trans dwidth	ns that mit free compl	this ba quency ies the	ndwidt for pa ERP l	h is no rt22 ru	t supporte le is 824N	ЛHz-849MH	z, for part90 efore ERP of						

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord	
1.	LTE Base Station	Anritsu	MT8820C/8821	N/A	N/A	Unshielded, 1.8m	
2.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8m	

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2.4 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List								
BW [MHz]	Channel/Frequency(MHz)	Lowest	Lowest Middle					
45	Channel	26765	-	-				
15	Frequency	821.5	-	-				
10	Channel	-	- 26740					
	Frequency	-	819	-				
_	Channel	26715	26740	26765				
5	Frequency	816.5	819	821.5				
2	Channel	26705	26740	26775				
3	Frequency	815.5	819	822.5				
1.4	Channel	26697	26740	26783				
	Frequency	814.7	819	823.3				

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3 Test Result

3.1 Field Strength of Spurious Radiation Measurement

3.1.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.1.2 Measuring Instruments

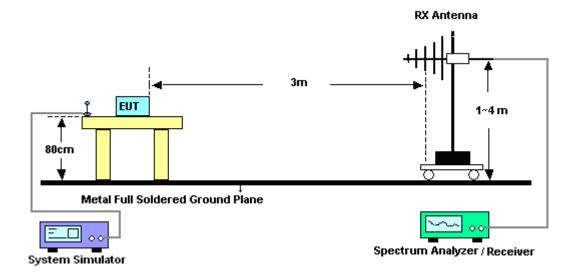
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

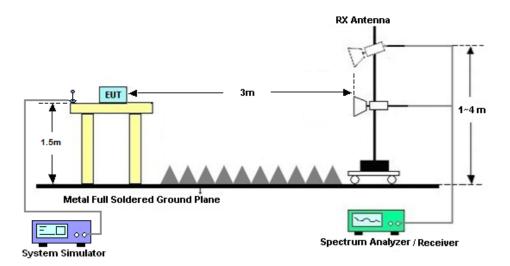
- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

3.1.4 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.1.5 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Sep. 14, 2020~ Sep. 15, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jan. 03, 2020	Sep. 14, 2020~ Sep. 15, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 10, 2019	Sep. 14, 2020~ Sep. 15, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Sep. 14, 2020~ Sep. 15, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 03, 2020	Sep. 14, 2020~ Sep. 15, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Sep. 14, 2020~ Sep. 15, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 03, 2020	Sep. 14, 2020~ Sep. 15, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 15, 2019	Sep. 14, 2020~ Sep. 15, 2020	Oct. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Sep. 14, 2020~ Sep. 15, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Sep. 14, 2020~ Sep. 15, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Sep. 14, 2020~ Sep. 15, 2020	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

	T
Measuring Uncertainty for a Level of	3.3dB
Confidence of 95% (U = 2Uc(y))	3.305

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	2.8dB
Confidence of 95% (U = 2Uc(y))	2.0UB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

	-	-
I	Measuring Uncertainty for a Level of	2.8dB
ı	Confidence of 95% (U = 2Uc(y))	2.0UD

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Appendix A. Test Results of Radiated Test

Radiated Spurious Emission

Antenna 1

	LTE Band 26 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	1628	-68.66	-13	-55.66	-75.63	1.58	10.70	Н		
	2444	-66.62	-13	-53.62	-74.87	2.102	12.50	Н		
Lowest	3258	-64.32	-13	-51.32	-73.21	2.856	13.90	Н		
Lowest	1628	-68.24	-13	-55.24	-75.21	1.58	10.70	V		
	2444	-66.69	-13	-53.69	-74.94	2.10	12.50	V		
	3258	-64.77	-13	-51.77	-73.66	2.86	13.90	V		
	1634	-68.88	-13	-55.88	-75.85	1.58	10.70	Н		
	2450	-66.53	-13	-53.53	-74.78	2.102	12.50	Н		
Middle	3270	-64.40	-13	-51.40	-73.29	2.856	13.90	Н		
Middle	1634	-68.64	-13	-55.64	-75.61	1.58	10.70	V		
	2450	-66.40	-13	-53.40	-74.65	2.10	12.50	V		
	3270	-64.62	-13	-51.62	-73.51	2.86	13.90	V		
	1638	-68.30	-13	-55.30	-75.27	1.58	10.70	Н		
	2458	-66.54	-13	-53.54	-74.79	2.102	12.50	Н		
Highest	3276	-64.74	-13	-51.74	-73.63	2.856	13.90	Н		
	1638	-68.33	-13	-55.33	-75.30	1.58	10.70	V		
	2458	-66.28	-13	-53.28	-74.53	2.10	12.50	V		
	3276	-64.29	-13	-51.29	-73.18	2.86	13.90	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	LTE Band 26 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
Middle	1630	-68.63	-13	-55.63	-75.60	1.58	10.70	Н		
	2444	-66.54	-13	-53.54	-74.79	2.102	12.50	Н		
	3258	-64.89	-13	-51.89	-73.78	2.856	13.90	Н		
	1630	-68.36	-13	-55.36	-75.33	1.58	10.70	V		
	2444	-66.51	-13	-53.51	-74.76	2.10	12.50	V		
	3258	-64.90	-13	-51.90	-73.79	2.86	13.90	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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Antenna 2

LTE Band 26 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	1630	-68.75	-13	-55.75	-75.72	1.58	10.70	Н	
	2444	-66.12	-13	-53.12	-74.37	2.102	12.50	Н	
Middle	3258	-64.77	-13	-51.77	-73.66	2.856	13.90	Н	
	1630	-68.30	-13	-55.30	-75.27	1.58	10.70	V	
	2444	-65.58	-13	-52.58	-73.83	2.10	12.50	V	
	3258	-65.10	-13	-52.10	-73.99	2.86	13.90	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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