FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2075-2

FCC ID : IHDT56ZC2

STANDARD : FCC Part 15 Subpart C §15.225

CLASSIFICATION: (DXX) Low Power Communication Device Transmitter

The product was received on May 27, 2020 and testing was completed on Jun. 10, 2020. 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.

Reviewed by: Jason Jia / Supervisor

Journes Huang

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Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

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Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 1 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Report No.: FR051103-02D

TABLE OF CONTENTS

TABLE	E OF CONTENTS	2
	ION HISTORY	
	IARY OF THE TEST RESULT	
	NERAL DESCRIPTION	
1.1	Applicant	5
1.2	Manufacturer	5
1.3	Product Feature of Equipment Under Test	5
1.4	Product Specification of Equipment Under Test	6
1.5	Modification of EUT	6
1.6	Specification of Accessory	6
1.7	Testing Location	7
1.8	Test Software	7
1.9	Applicable Standards	7
2. TES	T CONFIGURATION OF EQUIPMENT UNDER TEST	8
2.1	Descriptions of Test Mode	8
2.2	Connection Diagram of Test System	9
2.3	Table for Supporting Units	9
2.4	EUT Operation Test Setup	9
3. TES	T RESULTS	10
3.1	AC Power Line Conducted Emissions Measurement	10
3.2	20dB and 99% OBW Spectrum Bandwidth Measurement	12
3.3	Frequency Stability Measurement	13
3.4	Field Strength of Fundamental Emissions and Mask Measurement	
3.5	Radiated Emissions Measurement	16
3.6	Antenna Requirements	
	Γ OF MEASURING EQUIPMENT	
5. UNC	CERTAINTY OF EVALUATION	21
APPEN	NDIX A. TEST RESULTS OF CONDUCTED EMISSION TEST	
ΔPPFN	NDIX B. TEST RESULTS OF CONDUCTED TEST ITEMS	
	D. I. C. R. C.	

- B1. Test Result of 20dB Spectrum Bandwidth
- B2. Test Result of Frequency Stability

APPENDIX C. TEST RESULTS OF RADIATED TEST ITEMS

- C1. Test Result of Field Strength of Fundamental Emissions
- C2. Results of Radiated Emissions (9 kHz~30MHz)
- C3. Results of Radiated Emissions (30MHz~1GHz)

APPEDNIX D. SETUP PHOTOGRAPHS

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2

Page Number : 2 of 21 Report Issued Date: Jul. 17, 2020 Report Version : Rev. 01

Report Template No.: BU5-FR15CNFC Version 2.0

REVISION HISTORY

Report No.: FR051103-02D

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR051103-02D	Rev. 01	Initial issue of report	Jul. 17, 2020

 Sporton International (Kunshan) Inc.
 Page Number
 : 3 of 21

 TEL: +86-512-57900158
 Report Issued Date
 : Jul. 17, 2020

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

SUMMARY OF THE TEST RESULT

Report Section	FCC Rule	Description of Test	Result	Remark
3.1	15.207	AC Power Line Conducted Emissions	Complies	Under limit 11.34 dB at 15.146MHz
	15.215(c)	20dB Spectrum Bandwidth	Complies	-
3.2	-	99% OBW Spectrum Bandwidth	Complies	-
3.3	15.225(e)	Frequency Stability	Complies	-
3.4	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Complies	Max level 60.29 dBμV/m at 13.56 MHz
3.5	15.225(d) & 15.209	Radiated Spurious Emissions	Complies	Under limit 3.14 dB at 40.67MHz
3.6	15.203	Antenna Requirements	Complies	-

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.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 4 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Report No.: FR051103-02D

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	XT2075-2		
FCC ID	IHDT56ZC2		
EUT supports Radios application	GSM/CDMA/WCDMA/LTE/NFC/5G NR 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		
IMEI Code	Conducted : N/A Conduction : 353614110011641 Radiation : 353614110011401		
HW Version	DVT2		
SW Version	QPN30.37		
EUT Stage	Identical Prototype		

Report No.: FR051103-02D

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

 Sporton International (Kunshan) Inc.
 Page Number
 : 5 of 21

 TEL: +86-512-57900158
 Report Issued Date
 : Jul. 17, 2020

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Frequency Range	13.553 ~ 13.567MHz		
Channel Number	1		
20dBW	2.50 KHz		
99%OBW	2.12 KHz		
Antenna Type	ferrite+FPC Antenna		
Type of Modulation	ASK		

Report No.: FR051103-02D

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

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	Brand Name	Motorola(Chenyang)	Model Name	MC-201	
AC Adapter 2	Brand Name	Motorola(Acbel)	Model Name	MC-201	
Battery	Brand Name	Motorola(Amperex)	Model Name	LZ50	
USB Cable 1	Brand Name	Motorola(Luxshare)	Model Name	SC18C24368	
USB Cable 2	Brand Name	Motorola(Saibao)	Model Name	SC18C24367	

 Sporton International (Kunshan) Inc.
 Page Number
 : 6 of 21

 TEL: +86-512-57900158
 Report Issued Date
 : Jul. 17, 2020

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

1.7 Testing Location

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

Report No.: FR051103-02D

Test Site	Sporton Inter	Sporton International (Kunshan) Inc.				
	No. 1098, Pe	engxi North Roa	nd, Kunshan Eco	nomic Developmen	t Zone	
Test Site	Jiangsu Prov	rince 215300 Po	eople's Republic	of China		
Location	TEL: +86-51	2-57900158				
	FAX: +86-512-57900958					
	Sporton Site No.			FCC	FCC Test Firm	
Test Site No.				Designation No.	Registration No.	
TH01-KS 03CH02-KS			CO01-KS			
Test Engineer	Aaron shen	Carl NI	Amos Zhang			
Temperature	22~24℃	22~24°C 21~22 24.2~25.6°C		CN1257	314309	
Relative	53~55%	41~42	37~39%			
Humidity	J3~JJ /0	41~42	31~3370			

1.8 Test Software

lt	tem	Site	Manufacture	Name	Version
	1.	03CH02-KS	AUDIX	E3	6.2009-8-24a
	2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- 47 CFR Part 15 Subpart C §15.225
- ANSI C63.10-2013

 Sporton International (Kunshan) Inc.
 Page Number
 : 7 of 21

 TEL: +86-512-57900158
 Report Issued Date
 : Jul. 17, 2020

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

2. Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

The following table is a list of the test modes shown in this test report.

Test Items				
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions			
20dB Spectrum Bandwidth	Frequency Stability			
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz			

The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type F) was recorded in this report. Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Y plane as worst plane) from all possible combinations.

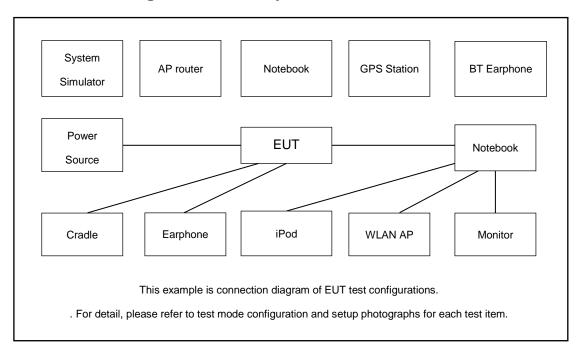
	Test Cases			
AC Conducted Emission	1(Charging from Adapter 1) + Earphone + NFC tx			
Remark: For Radiated Test Cases, The tests were performance with Adapter 1, Earphone, USB Cable 1				

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 8 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Report No.: FR051103-02D

2.2 Connection Diagram of Test System



2.3 Table for Supporting Units

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
5.	SD Card	Kingston	8GB	N/A	N/A	N/A

2.4 EUT Operation Test Setup

The EUT was programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 3 cm gap to the EUT.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 9 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Report No.: FR051103-02D

3. Test Results

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission	Conducted Limit (dBμV)		
(MHz)	Quasi-Peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

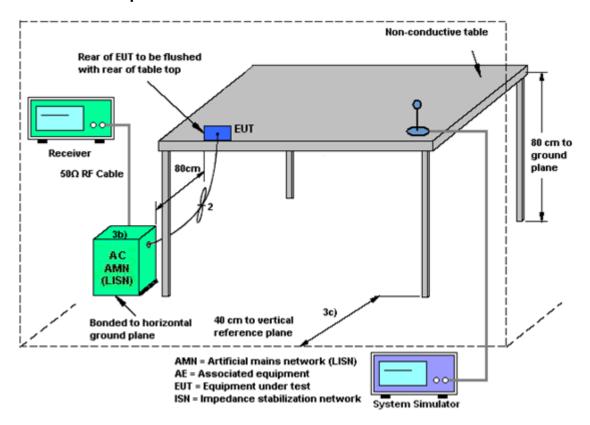
Sporton International (Kunshan) Inc.
TEL: +86-512-57900158

FAX: +86-512-57900158 FCC ID: IHDT56ZC2 Page Number : 10 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Report No.: FR051103-02D



3.1.4 Test setup



3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2

Page Number : 11 of 21 Report Issued Date: Jul. 17, 2020 Report Version : Rev. 01

Report No.: FR051103-02D

3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

Report No.: FR051103-02D

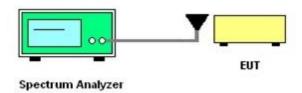
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- 2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- Measured the spectrum width with power higher than 20dB below carrier.
- 4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.

TEL: +86-512-57900158 FAX: +86-512-57900958

Report Version : Rev. 01 FCC ID: IHDT56ZC2 Report Template No.: BU5-FR15CNFC Version 2.0

Page Number

: 12 of 21

Report Issued Date: Jul. 17, 2020

3.3 Frequency Stability Measurement

3.3.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

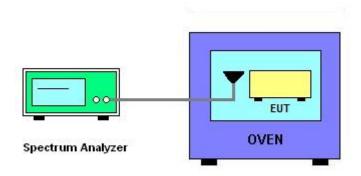
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- The spectrum analyzer connected via a receive antenna placed near the EUT.
- 2. EUT have transmitted signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire emissions bandwidth.
- 4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
- 5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm and the limit is less than ± 100 ppm.
- 6. Extreme temperature rule is -20°C~50°C.

3.3.4 Test Setup



3.3.5 Test Result of Conducted Test Items

Please refer to Appendix B.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 13 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Report No.: FR051103-02D

3.4 Field Strength of Fundamental Emissions and Mask Measurement

3.4.1 Limit

Rules and specifications	FCC CFR 47 Part 15 section 15.225								
Description	Compliance with th	Compliance with the spectrum mask is tested with RBW set to 9kHz.							
Francisco (MILL)	Field Strength	Field Strength	Field Strength	Field Strength					
Freq. of Emission (MHz)	(µV/m) at 30m	(dBµV/m) at 30m	(dBµV/m) at 10m	(dBµV/m) at 3m					
1.705~13.110	30	29.5	48.58	69.5					
13.110~13.410	106	40.5	59.58	80.5					
13.410~13.553	334	50.5	69.58	90.5					
13.553~13.567	15848	84.0	103.08	124.0					
13.567~13.710	334	50.5	69.58	90.5					
13.710~14.010	106	40.5	59.58	80.5					
14.010~30.000	30	29.5	48.58	69.5					

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 14 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

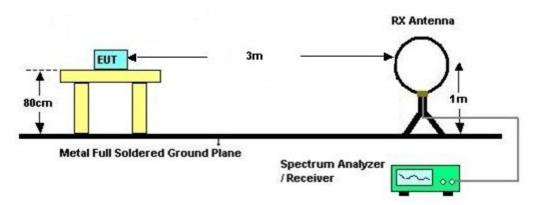
Report No. : FR051103-02D

3.4.3 Test Procedures

- Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
- 4. For Fundamental emissions, use the receiver to measure QP reading.
- 5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 6. Compliance with the spectrum mask is tested with RBW set to 9kHz. Note: Emission level ($dB\mu V/m$) = 20 log Emission level ($\mu V/m$).

3.4.4 Test Setup

For radiated emissions below 30MHz



3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 15 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Report No.: FR051103-02D

3.5 Radiated Emissions Measurement

3.5.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Frequencies	Field Strength	Measurement Distance
(MHz)	(μV/m)	(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Measuring Instrument Setting

The following table is the setting of receiver.

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

Sporton International (Kunshan) Inc.Page NumberTEL: +86-512-57900158Report Issued I

FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 16 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Report No.: FR051103-02D

3.5.4 Test Procedures

 Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

Report No.: FR051103-02D

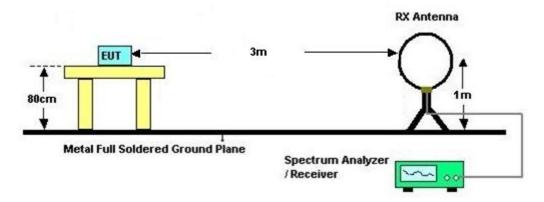
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. Antenna Requirements

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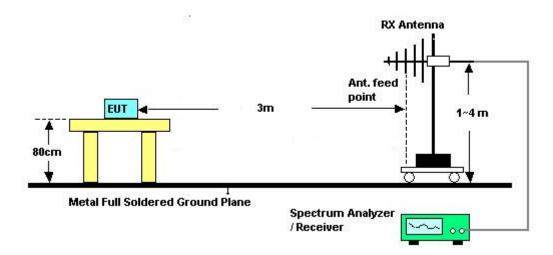
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 17 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

3.5.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

Remark: There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 18 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Report No.: FR051103-02D

3.6 Antenna Requirements

3.6.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

Report No.: FR051103-02D

: 19 of 21

Report Issued Date: Jul. 17, 2020

Page Number

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

TEL: +86-512-57900158 FAX: +86-512-57900958

Report Version : Rev. 01 FCC ID: IHDT56ZC2 Report Template No.: BU5-FR15CNFC Version 2.0

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2019	Jun. 07, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Temperature &hu midity chamber	Hongzhan	LP-150U	H2014011 440	-40~+150°C 20%~95%RH	Jul. 04, 2019	Jun. 07, 2020	Jul. 03, 2020	Conducted (TH01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 18, 2019	Jun. 07, 2020	Oct. 17, 2020	Conducted (TH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 14, 2020	Jun. 10, 2020	Apr. 13, 2021	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 18, 2019	Jun. 10, 2020	Oct. 17, 2020	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Oct. 28, 2019	Jun. 10, 2020	Oct. 27, 2020	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 18, 2019	Jun. 10, 2020	Oct. 17, 2020	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 18, 2019	Jun. 05, 2020	Oct. 17, 2020	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY553705 28	10Hz-44G,MAX 30dB	Oct. 18, 2019	Jun. 05, 2020	Oct. 17, 2020	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 10, 2019	Jun. 05, 2020	Nov. 09, 2020	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 30, 2019	Jun. 05, 2020	Dec. 29, 2020	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Aug. 06, 2019	Jun. 05, 2020	Aug. 05, 2020	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002 473	N/A	NCR	Jun. 05, 2020	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jun. 05, 2020	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jun. 05, 2020	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : 20 of 21
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Report No. : FR051103-02D

5. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. 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.

Report No.: FR051103-02D

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.9dB
of 95% (U = 2Uc(y))	2.906

Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.5dB
of 95% (U = 2Uc(y))	2.3ub

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

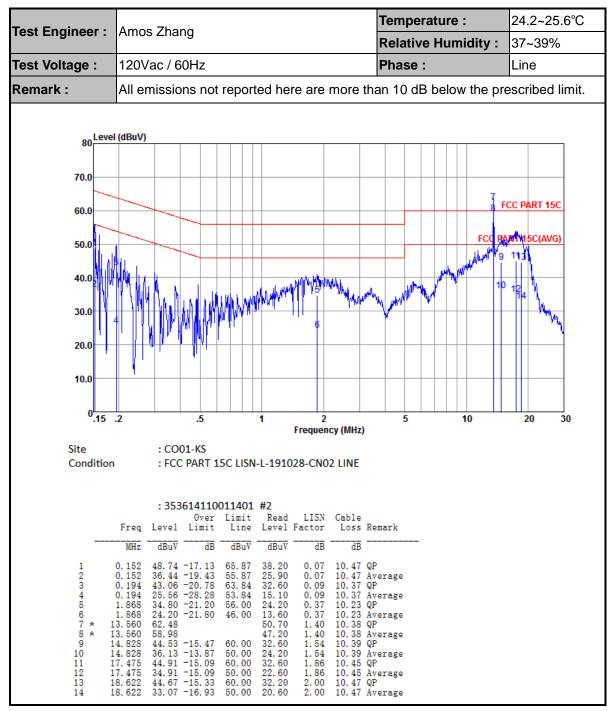
Measuring Uncertainty for a Level of Confidence	2.5dB
of 95% (U = 2Uc(y))	2.3UB

 Sporton International (Kunshan) Inc.
 Page Number
 : 21 of 21

 TEL: +86-512-57900158
 Report Issued Date
 : Jul. 17, 2020

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

Appendix A. Test Results of Conducted Emission Test

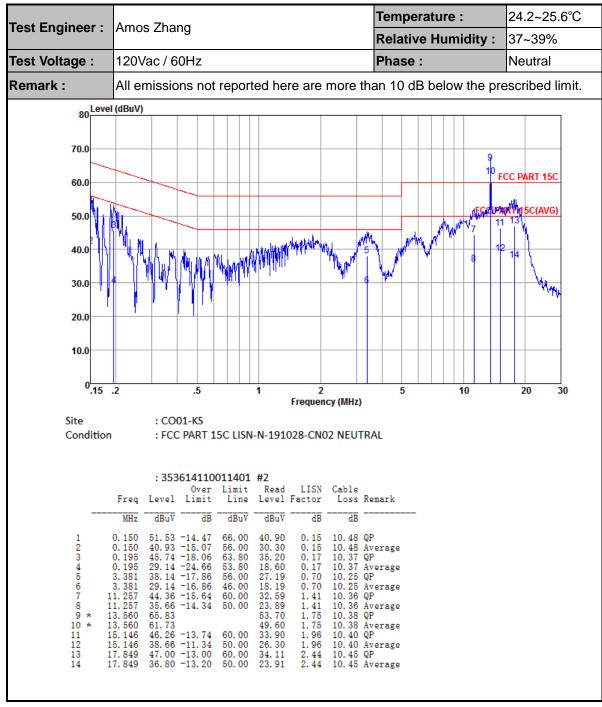


(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : A1 of A4
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01



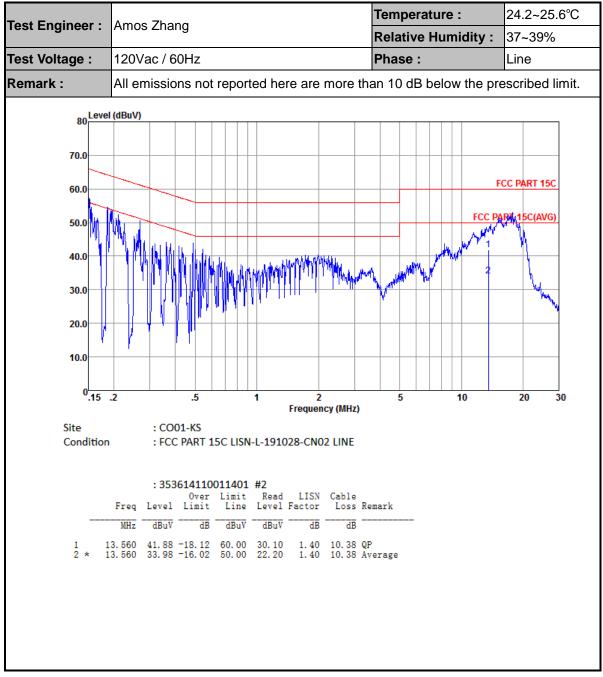


(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2

: A2 of A4 Page Number Report Issued Date: Jul. 17, 2020 Report Version : Rev. 01



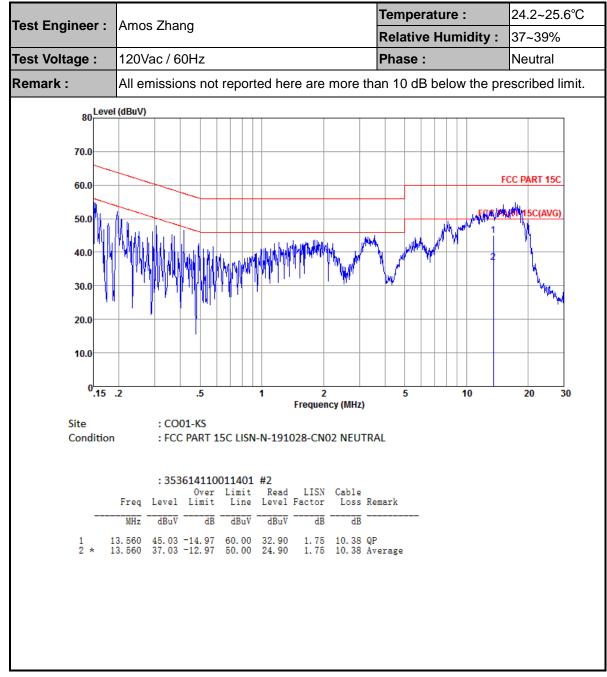
(2) With dummy load

Remark: Only the fundamental NFC signal needs to be retested per KDB 174176.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2

: A3 of A4 Page Number Report Issued Date: Jul. 17, 2020 Report Version : Rev. 01

C RF Test Report No.: FR051103-02D



(2) With dummy load

Remark: Only the fundamental NFC signal needs to be retested per KDB 174176.

Note:

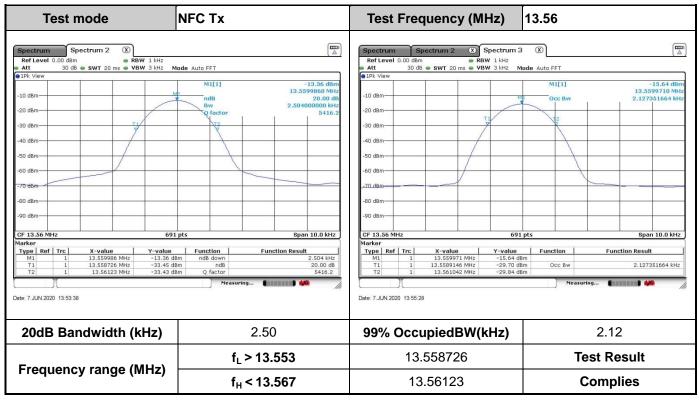
- 1. Level(dB μ V) = Read Level(dB μ V) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V) Limit Line(dB μ V)

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : A4 of A4
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Appendix B. Test Results of Conducted Test Items

B1.Test Result of 20dB Spectrum Bandwidth



Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : B1 of B2
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

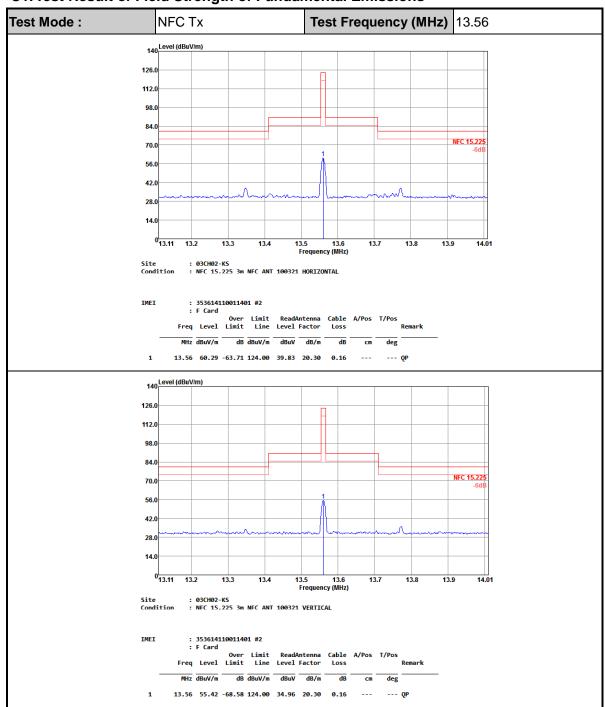
B2.Test Result of Frequency Stability

Voltage vs. Frequ	uency Stability	Temperature vs. Frequency Stability				
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (℃)	Measurement Frequency (MHz)			
120	13.559964	-20	13.559964			
102	13.559964	-10	13.559964			
138	13.559964	0	13.559971			
-	-	10	13.559964			
-	-	20	13.559964			
-	-	30	13.559964			
-	-	40	13.559964			
-	-	50	13.559964			
Max.Deviation (MHz)	-0.000036	Max.Deviation (MHz)	-0.000036			
Max.Deviation (ppm)	-2.6549	Max.Deviation (ppm)	-2.6549			
Limit	FS < ±100 ppm	Limit	FS < ±100 ppm			
Test Result	PASS	Test Result	PASS			

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : B2 of B2
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

Appendix C. Test Results of Radiated Test Items

C1. Test Result of Field Strength of Fundamental Emissions



Note:

- 1. Level($dB\mu V/m$) = Read Level($dB\mu V$) + Antenna Factor(dB/m) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V/m) Limit Line(dB μ V/m)

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : C1 of C3
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

Test Mode : NFC Tx				Polariz	ation :	Hor	izontal		
Frequency	Level	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.00985	56.81	-70.93	127.74	36.2	20.6	0.01	-	-	Average
0.01915	52.27	-69.69	121.96	31.66	20.6	0.01	-	-	Average
0.98435	33.66	-34.07	67.73	12.64	21	0.02	-	-	QP
5.786	33.92	-35.62	69.54	12.85	21	0.07	-	-	QP
20.138	32.79	-36.75	69.54	11.97	20.59	0.23	-	-	QP
26.16	31.47	-38.07	69.54	11.13	20.04	0.30	-	-	QP

Test Mode	: NFC	Tx		Polariz	Polarization : Ve			/ertical			
Frequency	Level	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark		
(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB)	Loss (dB)	Pos (cm)	Pos (deg)			
0.01013	53.84	-73.65	127.49	33.23	20.6	0.01	-	-	Average		
0.01563	52.61	-71.11	123.72	32	20.6	0.01	-	-	Average		
1.057	34.04	-33.07	67.11	13.02	21	0.02	-	-	QP		
6.56	34.48	-35.06	69.54	13.45	20.95	80.0	-	-	QP		
19.254	32.69	-36.85	69.54	11.87	20.6	0.22	-	-	QP		
26.19	32.85	-36.69	69.54	12.52	20.03	0.30	-	-	QP		

Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
- 3. Limit line = specific limits ($dB\mu V$) + distance extrapolation factor.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : C2 of C3
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01

C3. Results of Radiated Spurious Emissions (30MHz~1GHz)

Test Mode : NFC Tx					P	Polarization	Horizontal				
Frequency	Leve		Over	Limit	Read		Cable	Preamp	Ant	Table	Remark
(MHz)	(dBµV		Limit (dB)	Line (dBµV/m)	Level		Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	
40.67	24.0		15.93	40	35.99		0.88	31.96	-	-	Peak
67.83	18.3	6 -2	21.64	40	36.67	7 12.44	1.18	31.93	-	-	Peak
94.99	17.6	51 -2	25.89	43.5	32.47	7 15.6	1.47	31.93	-	-	Peak
128.94	17.9	2 -2	25.58	43.5	31.36	6 16.78	1.72	31.94	-	-	Peak
773.02	29.2	23 -	16.77	46	28.92	2 28.36	4.14	32.19	-	-	Peak
959.26	30.6	55 -	15.35	46	26.14	30.82	4.59	30.9	100	0	Peak

Test Mode	Test Mode : NFC Tx				larization	Vertical				
Frequency	Leve	el Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV	/m) (dB)	(dBµV/m	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
40.67	36.8	6 -3.14	40	48.78	19.16	0.88	31.96	100	115	QP
67.83	26.1	9 -13.81	40	44.5	12.44	1.18	31.93	-	-	Peak
94.99	23.6	3 -19.87	43.5	38.49	15.6	1.47	31.93	-	-	Peak
122.15	21.2	-22.3	43.5	34.82	16.64	1.67	31.93	-	-	Peak
555.74	25.4	9 -20.51	46	28.86	25.47	3.51	32.35	-	-	Peak
800.18	30.6	7 -15.33	46	30.38	28.2	4.21	32.12	-	-	Peak

Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$.
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZC2 Page Number : C3 of C3
Report Issued Date : Jul. 17, 2020
Report Version : Rev. 01