FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2147-1

FCC ID : IHDT56ZS5

STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jan. 08, 2021 and completely tested on Jan. 28, 2021. 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

James Huang

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People's Republic of China

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 1 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report No.: FG0N2517-02A

TABLE OF CONTENTS

RE	VISION	N HISTORY	3
SUI	MMAR	Y OF TEST RESULT	4
1	GENE	RAL DESCRIPTION	5
-	1.1	Applicant	
	1.2	Manufacturer	
	1.3	Product Feature of Equipment Under Test	
	1.4	Product Specification of Equipment Under Test	
	1.5	Modification of EUT	
	1.6	Re-use of Measured Data	
	1.7	Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	8
	1.8	Testing Location	8
	1.9	Test Software	8
	1.10	Applicable Standards	9
	1.11	Specification of Accessory	9
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	10
	2.1	Test Mode	10
	2.2	Connection Diagram of Test System	
	2.3	Support Unit used in test configuration	
	2.4	Measurement Results Explanation Example	11
	2.5	Frequency List of Low/Middle/High Channels	11
3	CONE	DUCTED TEST RESULT	12
	3.1	Measuring Instruments	12
	3.2	Test Setup	12
	3.3	Test Result of Conducted Test	12
	3.4	Conducted Output Power and ERP/EIRP	13
	3.5	Peak-to-Average Ratio	
	3.6	99% Occupied Bandwidth and 26dB Bandwidth Measurement	
	3.7	Conducted Band Edge	
	3.8	Conducted Spurious Emission	
	3.9	Frequency Stability	
4	RADI	ATED TEST ITEMS	_
	4.1	Measuring Instruments	
	4.2	Test Setup	
	4.3	Test Result of Radiated Test	
	4.4	Field Strength of Spurious Radiation Measurement	
5	LIST	OF MEASURING EQUIPMENT	21
6	UNCE	RTAINTY OF EVALUATION	22
API	PENDI	X A. TEST RESULTS OF CONDUCTED TEST	
		X B. TEST RESULTS OF RADIATED TEST	
		X C. TEST SETUP PHOTOGRAPHS	

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 2 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG0N2517-02A	Rev. 01	Initial issue of report	Feb. 19, 2021

Sporton International (Kunshan) Inc.Page Number: 3 of 22TEL: +86-512-57900158Report Issued Date: Feb. 19, 2021

FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 2.0

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
3.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
	§2.1055 §22.355	Frequency Stability for	< 2.5 ppm for Part 22		
3.9	§2.1055 §24.235 §27.54	Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053; §22.917(a); §24.238(a); §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 31.25 dB at 8663.000 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.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 4 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

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	XT2147-1
FCC ID	IHDT56ZS5
	GSM/WCDMA/LTE
	WLAN 2.4GHz 802.11b/g/n HT20
EUT supports Radios application	WLAN 5GHz 802.11a/n HT20/HT40
EOT Supports Radios application	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80
	Bluetooth BR / EDR / LE
	FM Receiver / GNSS
IMEI Code	Conducted: 351505880002624/351505880002601
IIWEI Code	Radiation: 353139530006138/353139530006146
HW Version	DVT2
SW Version	RRI31.Q1-10
EUT Stage	Identical Prototype

Report No.: FG0N2517-02A

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 22

 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 19, 2021

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

FCC ID : IHDT56ZS5 Report Template No.: BU5-FG22/24/27 Version 2.0

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
	GSM/GPRS/EDGE:			
	850:	824 MHz ~ 849 MHz		
	1900:	1850MHz ~ 1910MHz		
Tx Frequency	WCDMA:			
	Band V:	824 MHz ~ 849 MHz		
	Band II:	1850 MHz ~ 1910 MHz		
	Band IV:	1710 MHz ~ 1755 MHz		
	GSM/GPF	RS/EDGE:		
	850:	869 MHz ~ 894 MHz		
	1900:	1930 MHz ~ 1990 MHz		
Rx Frequency	WCDMA:			
	Band V:	869 MHz ~ 894 MHz		
	Band II:	1930 MHz ~ 1990 MHz		
	Band IV:	2110 MHz ~ 2155 MHz		
	WCDMA:			
Maximum Output Dawar to Antonna	Band V:	22.54 dBm		
Maximum Output Power to Antenna	Band II:	22.63 dBm		
	Band IV:	22.51 dBm		
Antenna Type	PIFA Anten	na		
	Cellular Ba	nd: -2.1 dBi		
Antenna Gain	PCS Band:	-2.5 dBi		
	AWS Band:	: -2.2 dBi		
		BPSK (Uplink)		
	HSDPA/DC-HSDPA: QPSK (Uplink)			
Type of Modulation	HSUPA: QPSK (Uplink)			
	HSPA+ : 16QAM (16QAM uplink is not supported) DC-HSDPA : 64QAM			
	וטטוו כטן	I. UTQ/ IIVI		

1.5 Modification of EUT

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

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

FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 6 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report No.: FG0N2517-02A

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: XT2147-1, FCC ID: IHDT56ZS5) is electrically identical to the reference device (Model: XT2135-1, FCC ID: IHDT56ZS3) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

Report No.: FG0N2517-02A

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 B (Sporton RF Report No. FG0N2517-01A for the reference device Model: XT2135-1, FCC ID: IHDT56ZS3).

1.6.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
PCE (2G/3G)	IHDT56ZS3	Part22H.24E.27L (FG0N2517-01A)	All sections applicable for GSM850 / 1900

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 following test items, the test result were consistent with FCC ID: IHDT56ZS3.

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	IHDT56ZS3 Worst Result	IHDT56ZS5 Worst Result	Difference (dB)
Radiated	EDGE850	-50.55	-51.98	-1.43
Spurious Emission	PCS1900	-41.36	-39.39	1.97
(dBuV/m)	Part 27M LTE7	-43.02	-40.06	2.96

 Sporton International (Kunshan) Inc.
 Page Number
 : 7 of 22

 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 19, 2021

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

FCC ID : IHDT56ZS5 Report Template No.: BU5-FG22/24/27 Version 2.0

1.7 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	Frequency Band	Frequency Range (MHz)	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	WCDMA Band V	826.4 ~ 846.6	BPSK	0.0675	0.0283 ppm	4M14F9W
Part 24	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.1030	0.0159 ppm	4M13F9W
Part 27	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.1074	0.0150 ppm	4M14F9W

Report No.: FG0N2517-02A

1.8 Testing Location

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 (F	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					
Took Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.			
Test Site No.	03CH02-KS TH01-KS	CN1257	314309			

1.9 Test Software

lte	em	Site	Manufacturer	Name	Version
	1.	03CH02-KS	AUDIX	E3	6.2009-8-24a

 Sporton International (Kunshan) Inc.
 Page Number
 : 8 of 22

 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 19, 2021

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

FCC ID : IHDT56ZS5 Report Template No.: BU5-FG22/24/27 Version 2.0

1.10 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

1.11 Specification of Accessory

Specification of Accessory						
AC Adapter 2(US)	Brand Name	Motorola (Chenyang)	Model Name	MC-201		
AC Adapter 2(IN)	Brand Name	Motorola (Chenyang)	Model Name	MC-204		
AC Adapter 2(BR)	Brand Name	Motorola (Chenyang)	Model Name	MC-207		
AC Adapter 1(US)	Brand Name	Motorola (Acbel)	Model Name	MC-201		
Battery	Brand Name	Motorola (ATL)	Model Name	MC50		
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 (Cabletech)	Model Name	SC18C49697		

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 9 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report No.: FG0N2517-02A

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

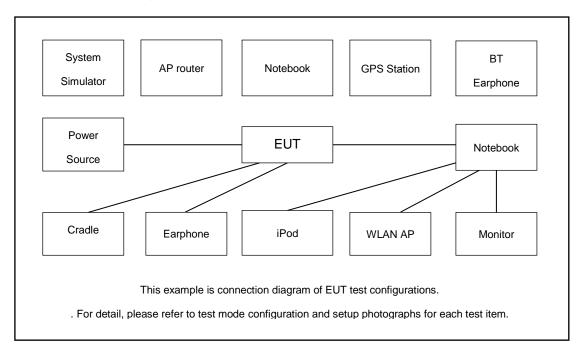
- 1. 30 MHz to 10th harmonic for WCDMA Band V.
- 2. 30 MHz to 10th harmonic for WCDMA Band IV.
- 3. 30 MHz to 10th harmonic for WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes							
Band	Radiated TCs	Conducted TCs					
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

2.2 Connection Diagram of Test System



Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 10 of 22 Report Issued Date : Feb. 19, 2021

Report No.: FG0N2517-02A

Report Version : Rev. 01

2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

Report No.: FG0N2517-02A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 5.10 dB and a 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 5.10 + 10 = 15.10 (dB)

2.5 Frequency List of Low/Middle/High Channels

Frequency List							
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest			
WCDMA	Channel	4132	4182	4233			
Band V	Frequency	826.4	836.4	846.6			
WCDMA	Channel	9262	9400	9538			
Band II	Frequency	1852.4	1880.0	1907.6			
WCDMA	Channel	1312	1413	1513			
Band IV	Frequency	1712.4	1732.6	1752.6			

 Sporton International (Kunshan) Inc.
 Page Number
 : 11 of 22

 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 19, 2021

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

FCC ID : IHDT56ZS5 Report Template No.: BU5-FG22/24/27 Version 2.0

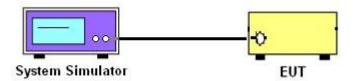
3 Conducted Test Result

3.1 Measuring Instruments

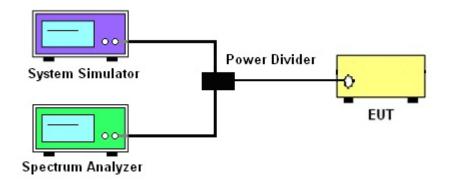
See list of measuring instruments of this test report.

3.2 Test Setup

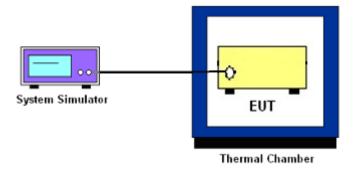
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

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

FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 12 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report No.: FG0N2517-02A

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2
- The transmitter output port was connected to the system simulator.
- 3. Set EUT at maximum power through the system simulator.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure and record the power level from the system simulator.

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

FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 13 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 14 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement 3.6.1

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of

the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and

one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB

below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit

bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of

the emission bandwidth.

3.6.2 **Test Procedures**

> 1. The testing follows ANSI C63.26 Section 5.4

2. The EUT was connected to spectrum analyzer and system simulator via a power divider.

3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.

The span range for the spectrum analyzer shall be between two and five times the anticipated

OBW.

4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated

OBW, and the VBW shall be at least 3 times the RBW.

5. Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to 6.

stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

7. Determine the "-26 dB down amplitude" as equal to (Reference Value - X).

8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of

the spectral display such that each marker is at or slightly below the "-X dB down amplitude"

determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed

as close as possible to this value. The OBW is the positive frequency difference between the

two markers.

9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured

bandwidth.

Page Number : 15 of 22 Report Issued Date: Feb. 19, 2021

Report No.: FG0N2517-02A

Report Version : Rev. 01

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

3.7.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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

FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 16 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 17 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

- 1. The testing follows ANSI C63.26 section 5.6.4
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

- 1. The testing follows ANSI C63.26 section 5.6.5
- 2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 18 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report No.: FG0N2517-02A

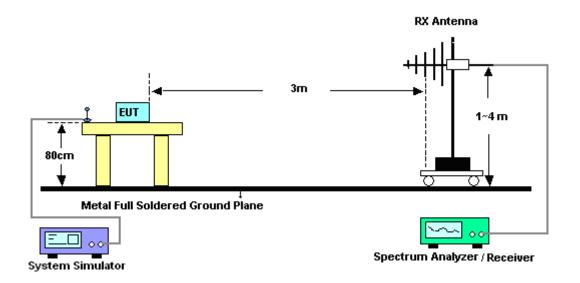
4 Radiated Test Items

4.1 Measuring Instruments

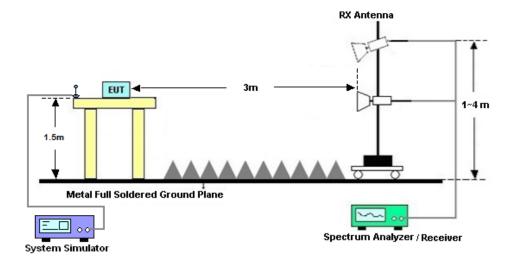
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 19 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report No.: FG0N2517-02A

4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

Report No.: FG0N2517-02A

4.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

 Sporton International (Kunshan) Inc.
 Page Number
 : 20 of 22

 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 19, 2021

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

FCC ID : IHDT56ZS5 Report Template No.: BU5-FG22/24/27 Version 2.0

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	Apr. 14, 2020	Dec. 21, 2020~ Jan. 04, 2021	Apr. 13, 2021	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 03, 2020	Dec. 21, 2020~ Jan. 04, 2021	Jul. 02, 2021	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Oct. 17, 2020	Jan. 28, 2021	Oct, 16, 2021	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 17, 2020	Jan. 28, 2021	Oct, 16, 2021	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 29, 2020	Jan. 28, 2021	Dec. 28, 2021	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 09, 2020	Jan. 28, 2021	Nov. 08, 2021	Radiation (03CH02-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	100MHz-18GHz	Jan. 02, 2021	Jan. 28, 2021	Jan. 01, 2022	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 09, 2020	Jan. 28, 2021	Nov. 08, 2021	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 02, 2021	Jan. 28, 2021	Jan. 01, 2022	Radiation (03CH02-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5GHz	Oct. 17, 2020	Jan. 28, 2021	Oct, 16, 2021	Radiation (03CH02-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Jan. 28, 2021	Jan. 06, 2022	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Jan. 28, 2021	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jan. 28, 2021	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jan. 28, 2021	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 21 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report No.: FG0N2517-02A

6 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.

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

Measuring Uncertainty for a Level of	2.5dB
Confidence of 95% (U = 2Uc(y))	2.506

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	2440
Confidence of 95% (U = 2Uc(y))	2.1dB

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

FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : 22 of 22
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and ERP/EIRP

	Band		WCDMA V					
	TX Channel	4132	4182	4233		ERP		
	Rx Channel		4407	4458				
Fr	requency (MHz)	826.4	836.4	846.6	L M H		Н	
3GPP Rel 99	AMR 12.2Kbps	22.53	22.51	22.39	0.0673	0.0670	0.0652	
3GPP Rel 99	RMC 12.2Kbps	22.54	22.52	22.41	0.0675	0.0671	0.0655	
3GPP Rel 6	HSDPA Subtest-1	21.87	21.95	21.85	0.0578	0.0589	0.0575	
3GPP Rel 6	HSDPA Subtest-2	21.91	21.98	21.90	0.0583	0.0593	0.0582	
3GPP Rel 6	HSDPA Subtest-3	21.41	21.44	21.35	0.0520	0.0524	0.0513	
3GPP Rel 6	HSDPA Subtest-4	21.45	21.46	21.41	0.0525	0.0526	0.0520	
3GPP Rel 8	DC-HSDPA Subtest-1	21.70	21.79	21.74	0.0556	0.0568	0.0561	
3GPP Rel 8	DC-HSDPA Subtest-2	21.75	21.83	21.72	0.0562	0.0573	0.0558	
3GPP Rel 8	DC-HSDPA Subtest-3	21.30	21.33	21.18	0.0507	0.0511	0.0493	
3GPP Rel 8	DC-HSDPA Subtest-4	21.29	21.29	21.25	0.0506	0.0506	0.0501	
3GPP Rel 6	HSUPA Subtest-1	21.91	21.91	21.92	0.0583	0.0583	0.0585	
3GPP Rel 6	HSUPA Subtest-2	20.03	19.90	19.82	0.0378	0.0367	0.0361	
3GPP Rel 6	HSUPA Subtest-3	20.98	20.93	20.84	0.0471	0.0466	0.0456	
3GPP Rel 6	HSUPA Subtest-4	19.92	19.89	19.78	0.0369	0.0366	0.0357	
3GPP Rel 6	HSUPA Subtest-5	22.00	21.90	21.80	0.0596	0.0582	0.0569	
	Band	WCDMA IV						
	TX Channel	1312	1413	1513	EIRP			
_	Rx Channel	1537	1638	1738				
	requency (MHz)	1712.4	1732.6	1752.6	L	M	Н	
3GPP Rel 99		22.47	22.49	22.46	0.1064	0.1069	0.1062	
3GPP Rel 99	RMC 12.2Kbps	22.49	22.51	22.48	0.1069	0.1074	0.1067	
3GPP Rel 6	HSDPA Subtest-1	21.77	21.76	21.77	0.0906	0.0904	0.0906	
3GPP Rel 6	HSDPA Subtest-2	21.81	21.82	21.81	0.0914	0.0916	0.0914	
3GPP Rel 6	HSDPA Subtest-3	21.31	21.28	21.29	0.0815	0.0809	0.0811	
3GPP Rel 6	HSDPA Subtest-4	21.28	21.30	21.25	0.0809	0.0813	0.0804	
3GPP Rel 8	DC-HSDPA Subtest-1	21.64	21.65	21.69	0.0879	0.0881	0.0889	
3GPP Rel 8	DC-HSDPA Subtest-2	21.71	21.70	21.67	0.0893	0.0891	0.0885	
3GPP Rel 8	DC-HSDPA Subtest-3	21.24	21.10	21.14	0.0802	0.0776	0.0783	
3GPP Rel 8	DC-HSDPA Subtest-4	21.13	21.16	21.20	0.0782	0.0787	0.0794	
3GPP Rel 6	HSUPA Subtest-1	21.76	21.73	21.82	0.0904	0.0897	0.0916	
3GPP Rel 6	HSUPA Subtest-2	19.78	19.80	19.82	0.0573	0.0575	0.0578	
3GPP Rel 6	HSUPA Subtest-3	20.75	20.76	20.84	0.0716	0.0718	0.0731	
3GPP Rel 6	HSUPA Subtest-4	19.81	19.73	19.78	0.0577	0.0566	0.0573	
3GPP Rel 6	HSUPA Subtest-5	21.70	21.80	21.80	0.0891	0.0912	0.0912	

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A1 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

	Band		WCDMA II					
	TX Channel	9262	9400	9538		EIRP		
Rx Channel		9662	9800	9938				
Fr	requency (MHz)	1852.4	1880	1907.6	L	M	Н	
3GPP Rel 99	AMR 12.2Kbps	22.47	22.50	22.61	0.0993	0.1000	0.1026	
3GPP Rel 99	RMC 12.2Kbps	22.48	22.51	22.63	0.0995	0.1002	0.1030	
3GPP Rel 6	HSDPA Subtest-1	21.81	21.89	21.96	0.0853	0.0869	0.0883	
3GPP Rel 6	HSDPA Subtest-2	21.79	21.93	22.00	0.0849	0.0877	0.0891	
3GPP Rel 6	HSDPA Subtest-3	21.34	21.40	21.48	0.0766	0.0776	0.0791	
3GPP Rel 6	HSDPA Subtest-4	21.29	21.43	21.51	0.0757	0.0782	0.0796	
3GPP Rel 8	DC-HSDPA Subtest-1	21.67	21.73	21.86	0.0826	0.0838	0.0863	
3GPP Rel 8	DC-HSDPA Subtest-2	21.73	21.80	21.84	0.0838	0.0851	0.0859	
3GPP Rel 8	DC-HSDPA Subtest-3	21.22	21.30	21.42	0.0745	0.0759	0.0780	
3GPP Rel 8	DC-HSDPA Subtest-4	21.18	21.26	21.42	0.0738	0.0752	0.0780	
3GPP Rel 6	HSUPA Subtest-1	21.80	21.93	22.01	0.0851	0.0877	0.0893	
3GPP Rel 6	HSUPA Subtest-2	19.83	19.89	20.01	0.0541	0.0548	0.0564	
3GPP Rel 6	HSUPA Subtest-3	20.81	20.97	21.02	0.0678	0.0703	0.0711	
3GPP Rel 6	HSUPA Subtest-4	19.81	19.84	20.04	0.0538	0.0542	0.0568	
3GPP Rel 6	HSUPA Subtest-5	21.80	22.00	22.00	0.0851	0.0891	0.0891	

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

FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A2 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

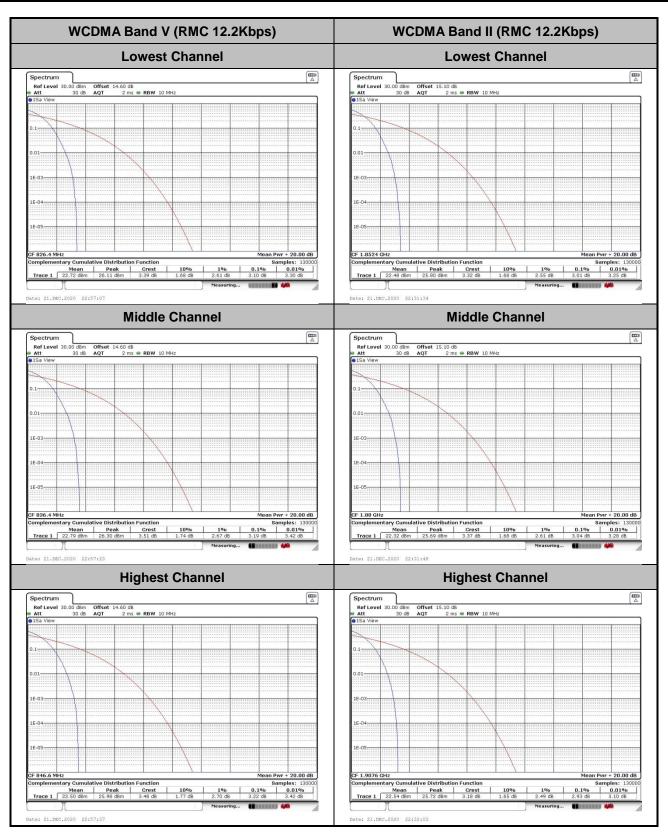
A2. WCDMA

Peak-to-Average Ratio

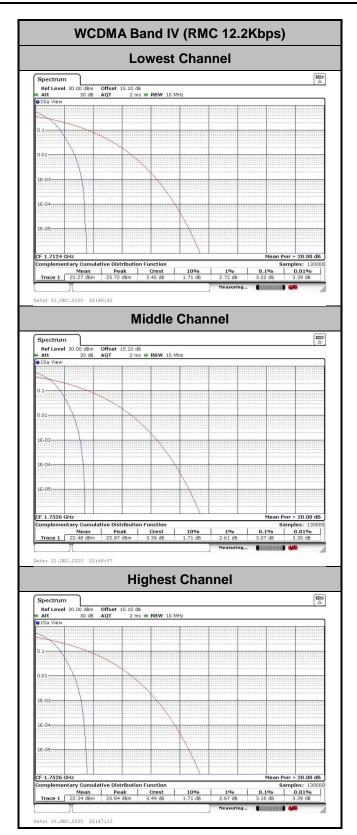
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.10	3.01	3.22	
Middle CH	3.19	3.04	3.07	PASS
Highest CH	3.22	2.93	3.16	

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A3 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A4 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01



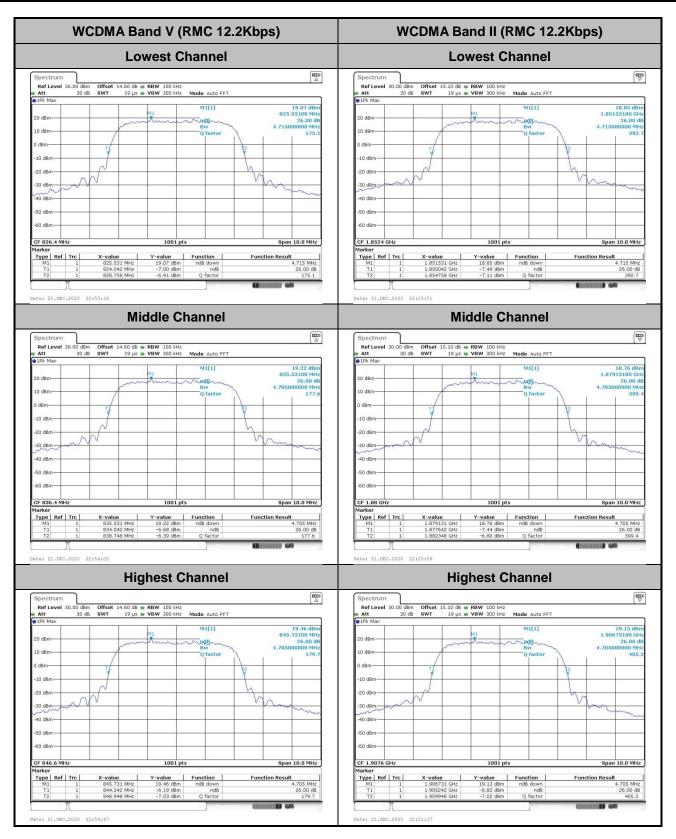
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A5 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.715	4.715	4.695
Middle CH	4.705	4.705	4.705
Highest CH	4.705	4.705	4.705

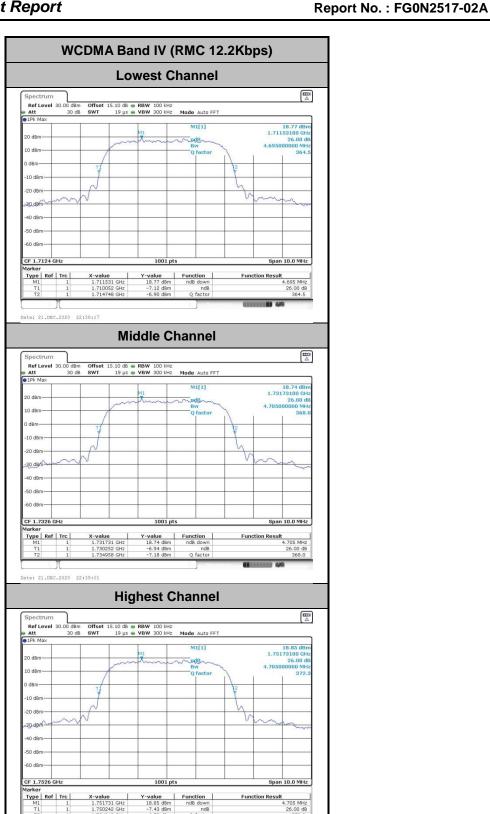
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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A6 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01



Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A7 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01



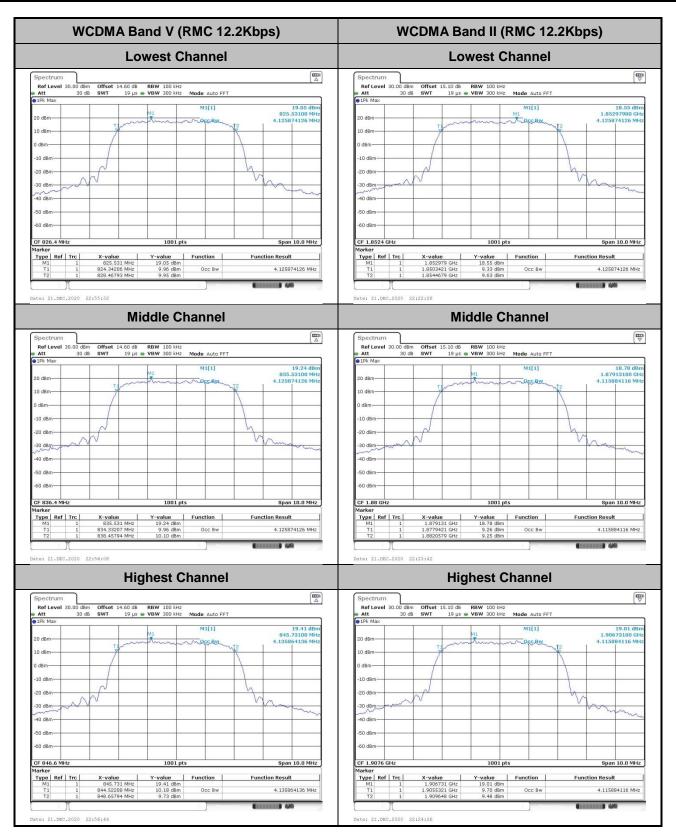
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A8 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.13	4.13	4.12
Middle CH	4.13	4.12	4.12
Highest CH	4.14	4.12	4.14

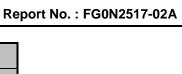
Sporton International (Kunshan) Inc. TEL: +86-512-57900158

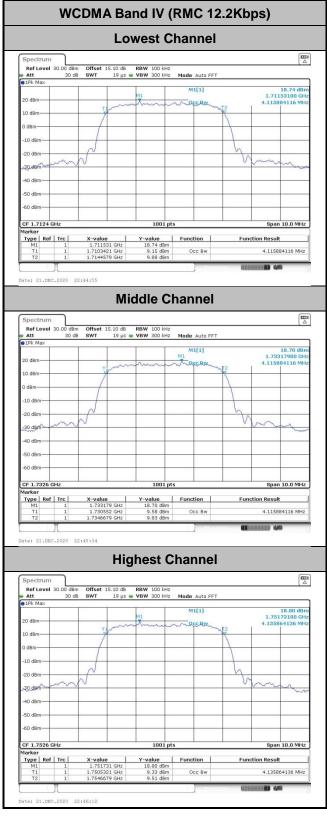
FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A9 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01



Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A10 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01



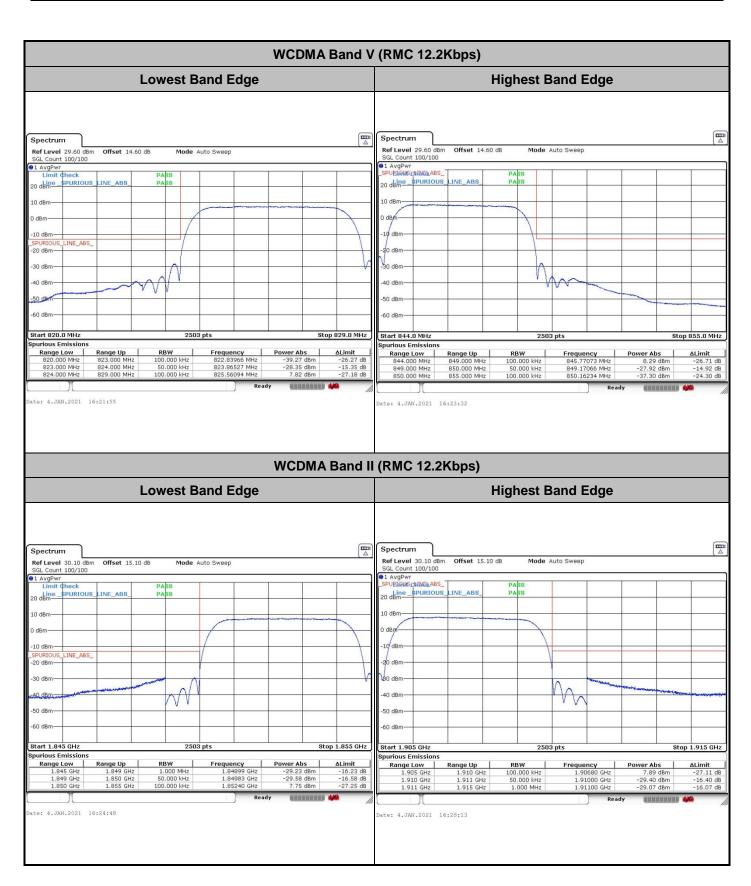


TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A11 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Conducted Band Edge

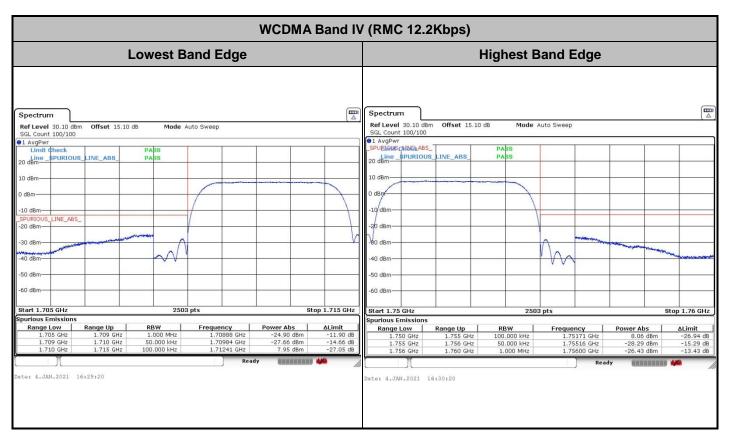
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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A12 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01



Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A13 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A14 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

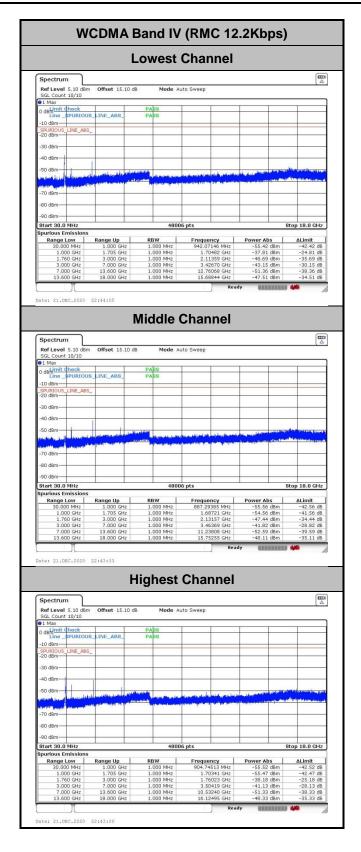
Conducted Spurious Emission

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A15 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel** 30 dBm **Middle Channel Middle Channel** SGL Count 10/10 20 dbmit Check Line _SPURIOUS_LINE_ABS **Highest Channel Highest Channel** Spectrum LINE_ABS

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A16 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A17 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0092	
40	Normal Voltage	0.0275	
30	Normal Voltage	0.0031	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0279	
0	Normal Voltage	0.0255	
-10	Normal Voltage	0.0078	PASS
-20	Normal Voltage	0.0283	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0262	
20	Battery End Point	0.0255	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0023	
40	Normal Voltage	0.0133	
30	Normal Voltage	0.0138	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0144	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0143	PASS
-20	Normal Voltage	0.0159	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0098	
20	Battery End Point	0.0023	

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A18 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result		
50	Normal Voltage	0.0035			
40	Normal Voltage	0.0029			
30	Normal Voltage	0.0150			
20(Ref.)	Normal Voltage	0.0000			
10	Normal Voltage	0.0023			
0	Normal Voltage	0.0127			
-10	Normal Voltage	0.0035	PASS		
-20	Normal Voltage	0.0144			
-30	Normal Voltage	0.0046			
20	Maximum Voltage	0.0017			
20	Normal Voltage	0.0133			
20	Battery End Point	0.0035			

Note:

- 1. Normal Voltage = 3.87V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZS5 Page Number : A19 of A19
Report Issued Date : Feb. 19, 2021
Report Version : Rev. 01

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

WCDMA Band V(RMC 12.2Kbps)								
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	1672	-62.99	-13	-49.99	-64.44	1.58	5.18	Н
	2509.2	-57.69	-13	-44.69	-60.71	1.94	7.11	Н
	3348	-57.27	-13	-44.27	-60.95	2.26	8.09	Н
	1672.8	-62.60	-13	-49.60	-64.05	1.58	5.18	V
	2510	-57.69	-13	-44.69	-60.71	1.94	7.11	V
	3348	-56.71	-13	-43.71	-60.39	2.26	8.09	V

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

WCDMA Band II(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-49.80	-13	-36.80	-55.75	2.39	8.34	Н
	5640	-52.35	-13	-39.35	-58.78	2.97	9.40	Н
	7524	-49.43	-13	-36.43	-57.37	3.40	11.34	Н
	3759	-51.26	-13	-38.26	-57.21	2.39	8.34	V
	5640	-52.44	-13	-39.44	-58.87	2.97	9.40	V
	7524	-49.37	-13	-36.37	-57.31	3.40	11.34	V

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

WCDMA Band IV(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-53.11	-13	-40.11	-59.01	2.29	8.19	Н
	5197.8	-52.20	-13	-39.20	-58.77	2.84	9.41	Н
	6936	-50.05	-13	-37.05	-57.16	3.3	10.41	Н
	8663	-44.25	-13	-31.25	-53.42	3.7	12.87	Н
	3465	-53.68	-13	-40.68	-59.58	2.29	8.19	V
	5197.8	-52.65	-13	-39.65	-59.22	2.84	9.41	V
	6936	-50.54	-13	-37.54	-57.65	3.3	10.41	V
	8663	-45.95	-13	-32.95	-55.12	3.7	12.87	V

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

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