



# FCC RF Test Report

APPLICANT : LG Electronics USA, Inc.  
EQUIPMENT : Mobile handset  
BRAND NAME : LG  
MODEL NAME : LM-K200ENW  
FCC ID : ZNFK200ENW  
STANDARD : 47 CFR Part 2, 27(M)  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

This is a data re-used report which is only valid together with the original test report. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

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Reviewed by: Jason Jia / Supervisor

*James Huang*

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**



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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG043012-01B	Rev. 01	Initial issue of report	Jul. 16, 2020



# 1 General Description

## 1.1 Applicant

**LG Electronics USA, Inc.**

111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632, United States

## 1.2 Manufacturer

**Huaqin Telecom Technology Co., Ltd.**

No.1 Building, No.9 Building, No.399,Keyuan Road,Zhangjiang Hi-tech Park,Shanghai,P.R.China

## 1.3 Product Feature of Equipment Under Test

Product Feature	
<b>Equipment</b>	Mobile handset
<b>Brand Name</b>	LG
<b>Model Name</b>	LM-K200ENW
<b>FCC ID</b>	ZNFK200ENW
<b>EUT supports Radios application</b>	GSM/WCDMA/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth BR/EDR/LE GNSS
<b>EUT Stage</b>	Identical Prototype

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

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx Frequency</b>	LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz
<b>Rx Frequency</b>	LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz
<b>Antenna Type</b>	PIFA Antenna
<b>Antenna Gain</b>	LTE Band 7 : -3.5 dBi LTE Band 38 : -4.5 dBi
<b>Type of Modulation</b>	QPSK / 16QAM / 64QAM

## 1.5 Modification of EUT

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



### 1.6 Testing Location

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

<b>Test Firm</b>	Sporton International (Kunshan) Inc.		
<b>Test Site Location</b>	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		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-KS	CN1257	314309

### 1.7 Test Software

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

### 1.8 Re-use of Measured Data

#### 1.8.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: LM-K200ENW, FCC ID: ZNFK200ENW) is electrically identical to the reference device (Model: LM-K200HMW, FCC ID: ZNFK200HMW) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

#### 1.8.2 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. FG043015B for the reference device Model: LM-K200HMW, FCC ID: ZNFK200HMW).



1.8.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
PCE (LTE)	ZNFK200HMW	Part 27M (FG043015B)	All sections applicable

1.8.4 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: ZNFK200HMW.

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	ZNFK200HMW Worst Result	ZNFK200ENW Worst Result	Difference (dB)
Radiated Spurious Emission (dBm)	LTE Band 7	-57.5	-54.86	2.64



## 2 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	Jun. 04, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49221	30MHz-1GHz	Jun. 19, 2019	Jun. 04, 2020	Jun. 18, 2020	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Jun. 04, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Jun. 04, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Aug. 06, 2019	Jun. 04, 2020	Aug. 05, 2020	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 08, 2020	Jun. 04, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Aug. 16, 2019	Jun. 04, 2020	Aug. 15, 2020	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5G Hz	Oct.15, 2019	Jun. 04, 2020	Oct.14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 04, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 04, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 04, 2020	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



## **Appendix B. Reference Report**

Please refer to Sporton report number FG043015B which is issued separately.