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HCT

TEST REPORT

EMI Test for FCC Certification of LM-K200TM Model

APPLICANT
LG Electronics USA, Inc.

REPORT NO.
HCT-EM-2009-FC007-R1

DATE OF ISSUE
October 15, 2020

Tested by
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TEST REPORT

EMI Test for FCC Certification

REPORT NO.
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FCC ID.
ZNFK200TM

Applicant	**LG Electronics USA, Inc.** 111 Sylvan Avenue, North Building , Englewood Cliffs NJ 07632 United States
Product Name Model Name	Smart Phone LM-K200TM
Travel Adaptor Information	Model name: MCS-V01WR Manufacturer: SUNLIN
Date of Test	August 31, 2020 to September 23, 2020
Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014ANSI C63.4-2014
Test Results	Refer to the present document
Manufacturer	LG Electronics Inc.

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test results were applied only to the test methods required by the standard

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	September 24, 2020	Initial Release
1	October 15, 2020	Revised the frequency

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. (See Test Report if any modifications were made for compliance)
I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.
HCT certifies that no party to application has been denial the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

The above Test Report is not related to the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation), which signed the ILAC-MRA.

CONTENTS

1. GENERAL INFORMATION

1.1 Description of EUT

FCC ID	ZNFK200TM
Model Name	LM-K200TM
Product Name	Smart Phone
TX Frequency	824.20 MHz to 848.80 MHz (GSM 850) 1 850.20 MHz to 1 909.80 MHz (GSM 1 900) 1 852.4 MHz to 1 907.6 MHz (WCDMA B2) 1712.4 MHz to 1752.6 MHz (WCDMA B4) 826.40 MHz to 846.60 MHz (WCDMA B5) 1 850 MHz to 1 910 MHz (LTE B2) 1 710 MHz to 1 755 MHz (LTE B4) 824 MHz to 849 MHz (LTE B5) 699 MHz to 716 MHz (LTE B12) 777 MHz to 787 MHz (LTE B13) 1 850 MHz to 1 915 MHz (LTE B25) 814 MHz to 849 MHz (LTE B26) 2 496 MHz to 2 690 MHz (LTE B41) 1 710 MHz to 1 780 MHz (LTE B66) 663 MHz to 698 MHz (LTE B71) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)
RX Frequency	869.20 MHz to 893.80 MHz (GSM 850) 1 930.20 MHz to 1 989.80 MHz (GSM 1 900) 1 932.4 MHz to 1 987.6 MHz (WCDMA B2) 2 112.4 MHz to 2 152.6 MHz (WCDMA B4) 871.40 MHz to 891.60 MHz (WCDMA B5) 1 930 MHz to 1 990 MHz (LTE B2) 2 110 MHz to 2 155 MHz (LTE B4) 869 MHz to 894 MHz (LTE B5) 729 MHz to 746 MHz (LTE B12) 746 MHz to 756 MHz (LTE B13) 1 925 MHz to 1 990 MHz (LTE B25) 859 MHz to 894 MHz (LTE B26) 2 496 MHz to 2 690 MHz (LTE B41) 2 110 MHz to 2 200 MHz (LTE B66) 617 MHz to 652 MHz (LTE B71) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)

1.2 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Serial Number	Manufacturer
EUT	LM-K200TM	-	LG
TA	MCS-V01WR	-	SUNLIN
DATA cable	EAD62377921		LEAGTECH
Earphone	EAB64468444	-	CRESYN
Micro SD card	Extreme MicroSDHC UHS-I CLASS 10 (32 GB)	-	SANDISK

1.3 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	Micro USB	Y	N/A	(P) 1.0
	Earphone	N/A	N	(D) 1.2

NOTE. The marked "(D)" means the data cable and "(P)" means the power cable.

1.4 Noise Suppression Parts on Cable (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	Micro USB	N	N/A	Y	Both End
	Earphone	N	N/A	Y	EUT End

1.5 Test Facility

Test site is located at 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, South Korea.
Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014.
The Normalized site attenuations (30 MHz to 1 GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014

Measurement Facilities	Designation No.
Radiated Field strength measurement facility 3 m Semi Anechoic chamber	KR0032
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #1	
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #2	
Filing the EMI Measurement Facility (3 m Semi Anechoic Chamber and Shielded Room)	IC 5944A-4
Filing the EMI Measurement Facility (10 m Semi-Anechoic Chamber)	IC 5944A-2

1.6 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in ac cordance with the manufacturers recommendations for utilizing calibration equipment, which is traceable to recognized national standards. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5:2017

1.7 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty
Conducted Emission (0.15 MHz to 30 MHz)	1.58 dB
3 m Radiated Emissions (30 MHz to 1 GHz)	4.86 dB
3 m Radiated Emissions (1 GHz to 18 GHz)	4.58 dB
3 m Radiated Emissions (18 GHz to 40 GHz)	5.54 dB

2. DESCRIPTION OF TEST

2.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 7.3

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).
If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).
Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.
c. The frequency range from 150 kHz to 30 MHz was searched.

Conducted Emission Limits

Frequency (MHz)	Resolution Bandwidth (kHz)	Class A		Class B	
		Quasi-Peak (dBµV)	Average (dBµV)	Quasi-Peak (dBµV)	Average (dBµV)
0.15 to 0.5	9	79	66	66 to 56*	56 to 46*
0.5 to 5	9	73	60	56	46
5 to 30	9	73	60	60	50

NOTE. Decreases with the logarithm of the frequency.

2.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 8.3

a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
f. The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
g. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
(1 GHz to 40 GHz)

Radiated Emission Limits

Frequency (MHz)	Class A			Class B		
	Antenna Distance (m)	Field Strength (μV/m)	Quasi-Peak (dBμV/m)	Antenna Distance (m)	Field Strength (μV/m)	Quasi-Peak (dBμV/m)
30 to 88	10	90	39.0	3	100	40.0
88 to 216	10	150	43.5	3	150	43.5
216 to 960	10	210	46.4	3	200	46.0
Above 960	10	300	49.5	3	500	54.0

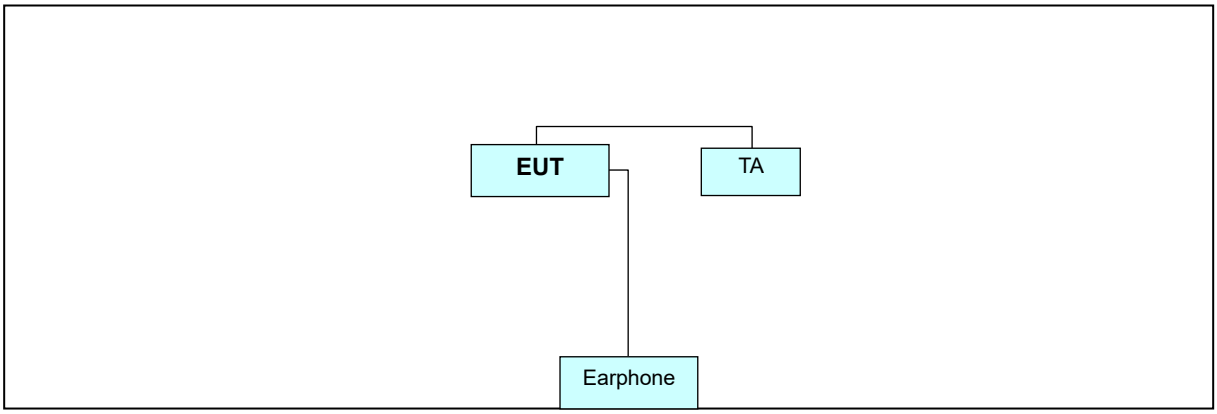
Frequency (MHz)	Antenna Distance (m)	Class A		Class B	
		Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
Above 1 000	3	80	60	74	54

2.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 ㎓, whichever is lower

2.3 Configuration of Tested System



Non-Conductive Table
Power Line: 120 VAC, 60 Hz

3. PRELIMINARY TEST

3.1 Conducted Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Modes: FRONT CAMERA & MP3 mode
REAR CAMERA & FM RADIO mode
IDLE mode
NOTE. The worst-case emissions are reported.

3.2 Radiated Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Modes: FRONT CAMERA & MP3 mode
REAR CAMERA & FM RADIO mode
IDLE mode
NOTE. The worst-case emissions are reported.

4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission

4.1.1 Measuring instruments

	Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
☒	EMI test receiver	Rohde & Schwarz	ESCI	100584	1 year	06.10.2020
☒	LISN	Rohde & Schwarz	ENV216	102245	1 year	09.04.2020
☒	Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.19.2020
☒	Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
☒	Software	Rohde & Schwarz	EMC32	-	-	-

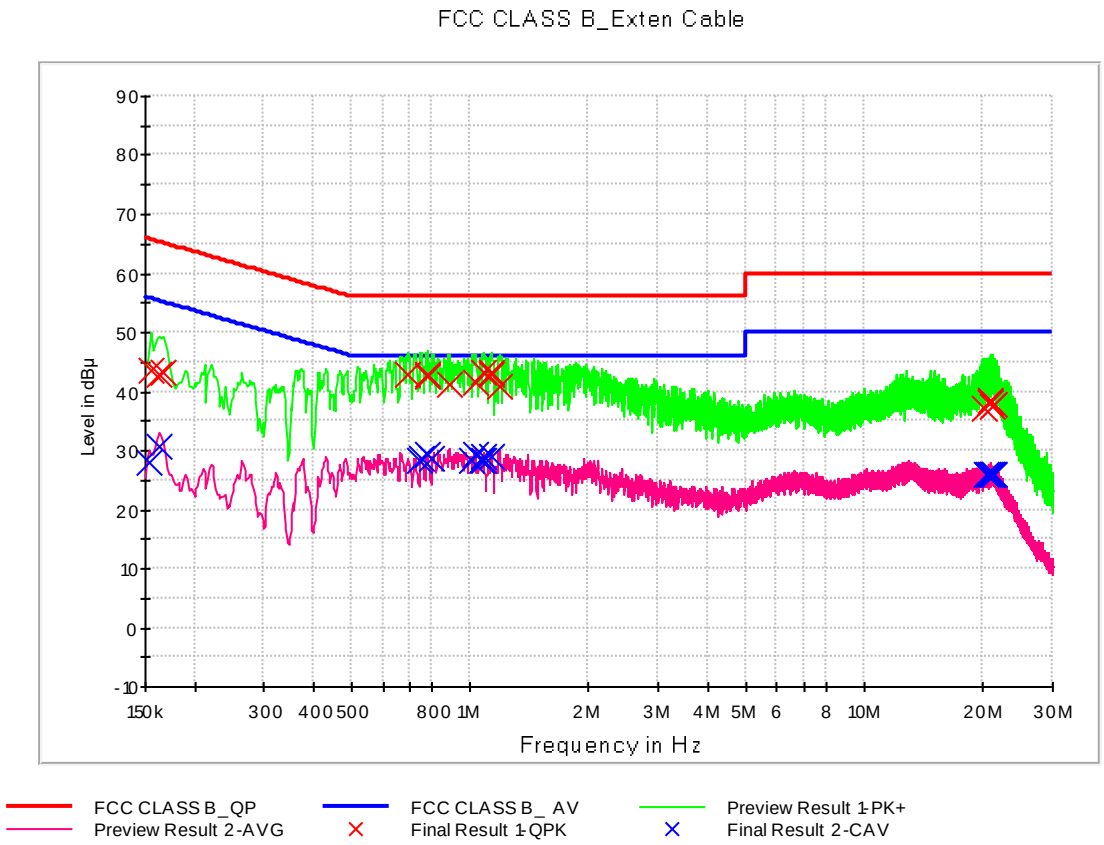
4.1.2 Operating Condition

The test results of conducted emission at mains ports provide the following information:

Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Frequency Range	150 kHz to 30 MHz
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Worst Case of Operating Mode	Idle mode (LTE B26+B5 Middle CH)
Kind of Test Site	EMI Shielded Room
Temperature	22.9 °C
Relative Humidity	46.6 %
Test Date	September 16, 2020

4.1.3 Measuring Data

Figure 1: Conducted Emission (150 kHz to 30 MHz), Line (L1)



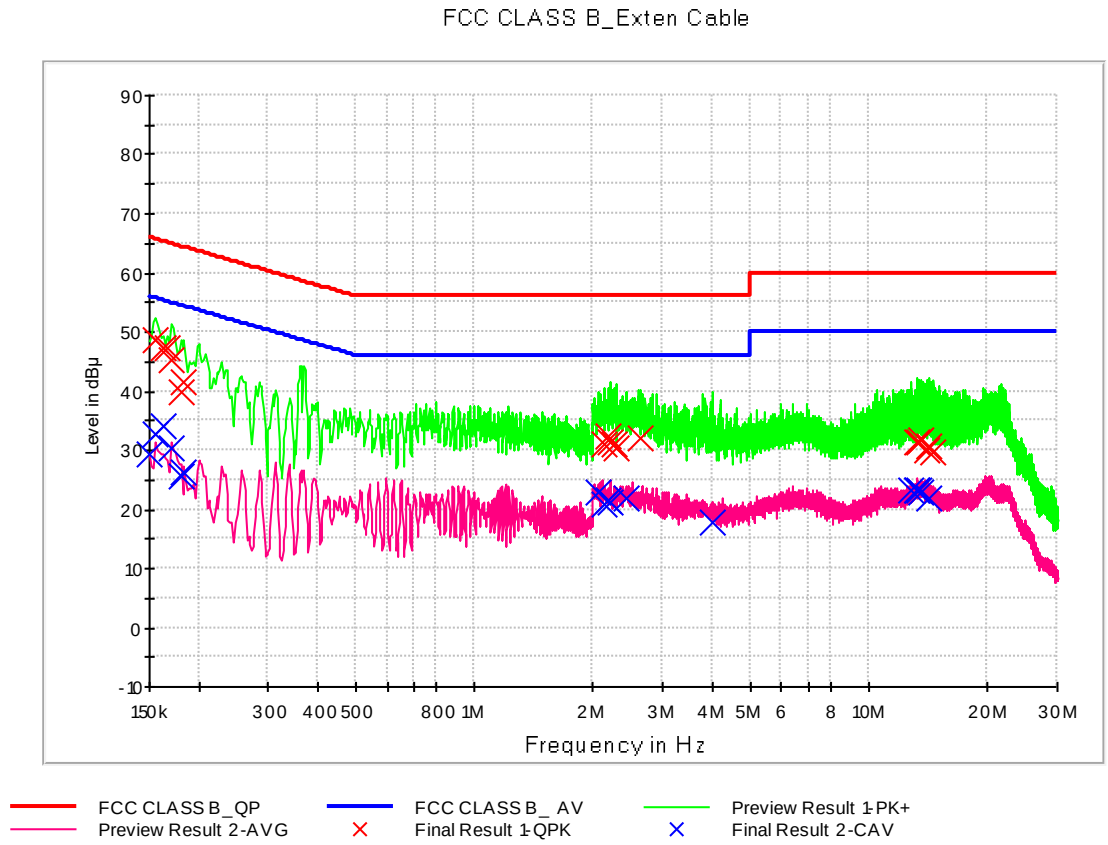
Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.156000	43.6	9.000	L1	9.8	22.1	65.7
0.162000	42.9	9.000	L1	9.8	22.4	65.4
0.166000	43.1	9.000	L1	9.8	22.1	65.2
0.698000	43.0	9.000	L1	9.8	13.0	56.0
0.776000	43.0	9.000	L1	9.8	13.0	56.0
0.780000	42.6	9.000	L1	9.8	13.4	56.0
0.884000	41.3	9.000	L1	9.8	14.7	56.0
1.030000	41.6	9.000	L1	9.8	14.4	56.0
1.078000	43.2	9.000	L1	9.8	12.8	56.0
1.130000	43.3	9.000	L1	9.8	12.7	56.0
1.134000	42.7	9.000	L1	9.8	13.3	56.0
1.192000	40.8	9.000	L1	9.8	15.2	56.0
20.168000	37.1	9.000	L1	10.5	22.9	60.0
20.838000	38.5	9.000	L1	10.6	21.5	60.0
20.976000	38.1	9.000	L1	10.6	21.9	60.0
20.998000	38.2	9.000	L1	10.6	21.8	60.0
21.158000	37.6	9.000	L1	10.6	22.4	60.0
21.308000	37.8	9.000	L1	10.6	22.2	60.0

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	27.9	9.000	L1	9.8	27.8	55.8
0.162000	30.7	9.000	L1	9.8	24.6	55.4
0.748000	28.2	9.000	L1	9.8	17.8	46.0
0.754000	28.6	9.000	L1	9.8	17.4	46.0
0.776000	29.2	9.000	L1	9.8	16.8	46.0
0.800000	28.5	9.000	L1	9.8	17.5	46.0
1.014000	28.3	9.000	L1	9.8	17.7	46.0
1.028000	29.2	9.000	L1	9.8	16.8	46.0
1.070000	28.5	9.000	L1	9.8	17.5	46.0
1.078000	29.2	9.000	L1	9.8	16.8	46.0
1.084000	28.4	9.000	L1	9.8	17.6	46.0
1.134000	29.1	9.000	L1	9.8	16.9	46.0
20.486000	25.8	9.000	L1	10.5	24.2	50.0
20.740000	26.0	9.000	L1	10.6	24.0	50.0
20.976000	25.8	9.000	L1	10.6	24.2	50.0
21.154000	25.9	9.000	L1	10.6	24.1	50.0
21.158000	25.9	9.000	L1	10.6	24.1	50.0
21.308000	25.8	9.000	L1	10.6	24.2	50.0

Figure 2: Conducted Emission (150 kHz to 30 MHz), Line (N)



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.156000	48.5	9.000	N	9.8	17.2	65.7
0.162000	47.4	9.000	N	9.8	17.9	65.4
0.166000	47.4	9.000	N	9.8	17.7	65.2
0.170000	45.1	9.000	N	9.8	19.9	65.0
0.180000	39.7	9.000	N	9.8	24.8	64.5
0.184000	41.4	9.000	N	9.8	22.9	64.3
2.142000	30.9	9.000	N	9.9	25.1	56.0
2.180000	32.4	9.000	N	9.9	23.6	56.0
2.200000	31.5	9.000	N	9.9	24.5	56.0
2.256000	31.0	9.000	N	9.9	25.0	56.0
2.286000	30.3	9.000	N	9.9	25.7	56.0
2.646000	32.2	9.000	N	9.9	23.8	56.0
13.194000	31.5	9.000	N	10.4	28.5	60.0
13.426000	31.5	9.000	N	10.4	28.6	60.0
13.498000	31.6	9.000	N	10.4	28.4	60.0
14.074000	30.2	9.000	N	10.4	29.8	60.0
14.136000	30.7	9.000	N	10.4	29.3	60.0
14.612000	29.5	9.000	N	10.4	30.5	60.0

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	29.3	9.000	N	9.8	26.7	56.0
0.156000	32.6	9.000	N	9.8	23.0	55.7
0.162000	34.2	9.000	N	9.8	21.2	55.4
0.170000	30.2	9.000	N	9.8	24.8	55.0
0.180000	25.4	9.000	N	9.8	29.0	54.5
0.184000	26.1	9.000	N	9.8	28.2	54.3
2.062000	22.8	9.000	N	9.9	23.2	46.0
2.142000	20.7	9.000	N	9.9	25.3	46.0
2.180000	21.4	9.000	N	9.9	24.6	46.0
2.200000	21.1	9.000	N	9.9	24.9	46.0
2.428000	21.9	9.000	N	9.9	24.1	46.0
4.020000	17.8	9.000	N	10.0	28.2	46.0
12.774000	23.3	9.000	N	10.4	26.7	50.0
13.194000	23.2	9.000	N	10.4	26.8	50.0
13.306000	23.3	9.000	N	10.4	26.7	50.0
13.426000	23.2	9.000	N	10.4	26.8	50.0
13.582000	22.9	9.000	N	10.4	27.1	50.0
14.136000	21.8	9.000	N	10.4	28.2	50.0

4.2 Radiated Emission Below 1 GHz

4.2.1 Measuring instruments

	Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
☒	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.12.2020
☒	Bi-Log antenna	Schwarzbeck	VULB 9168	255	2 year	03.26.2019
☒	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒	Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
☒	Turn table	INNCO Systems	1060	-	N/A	-
☒	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
☒	Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.19.2020
☒	Antenna (for communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
☒	Software	Rohde & Schwarz	EMC32	-	-	-

4.2.2 Operating Condition

The test results of radiated emission provide the following information:

Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Frequency Range	30 MHz to 1 000 MHz
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Worst Case of Operating Mode	Idle mode (LTE B26+B5 Middle CH)
Kind of Test Site	3 m semi anechoic chamber
Temperature	21.5 / 23.7 °C
Relative Humidity	47.9 / 49.2 %
Test Date	August 31, 2020 / September 11, 2020

4.2.3 Measuring Data

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.012660	**26.5**	**100.0**	**V**	**0.0**	**18.3**	**13.5**	**40.0**
45.454400	**22.0**	**100.0**	**V**	**84.0**	**19.5**	**18.0**	**40.0**
102.496920	**21.4**	**325.2**	**H**	**93.0**	**15.4**	**22.1**	**43.5**
151.072600	**19.0**	**225.1**	**V**	**154.0**	**19.5**	**24.5**	**43.5**
472.367240	**24.4**	**100.0**	**V**	**252.0**	**24.5**	**21.6**	**46.0**
700.423280	**29.5**	**174.9**	**V**	**316.0**	**28.7**	**16.5**	**46.0**

- Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. QuasiPeak = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
4. Margin = Limit - QuasiPeak

4.3 Radiated Emission Above 1 GHz

4.3.1 Measuring instruments

	Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
☒	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.12.2020
☒	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒	Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
☒	Turn table	INNCO Systems	1060	-	N/A	-
☒	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
☒	Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.19.2020
☒	Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
☒	Low noise amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.03.2020
☐	Low noise amplifier	TESTEK	TK-PA1840H	170030-L	1 year	02.13.2020
☒	Horn antenna	Schwarzbeck	BBHA 9120D	01836	1 year	07.23.2020
☐	Horn antenna	Schwarzbeck	BBHA 9170	BBHA9170#786	1 year	12.03.2019
☒	Software	Rohde & Schwarz	EMC32	-	-	-

4.3.2 Operating Condition

The test results of radiated emission provide the following information:

Used Test Standard	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Frequency	2 690 MHz
Tested Frequency Range	1 GHz to 18 GHz
Worst Case of Operating Mode	Idle mode (LTE B26+B5 Middle CH)
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.1 / 23.1 °C
Relative Humidity	45.2 / 46.6 %
Test Date	September 15 / September 23, 2020

4.3.3 Measuring Data

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
2023.140000	31.1	100.0	V	84.0	-26.3	42.9	74.0
3579.125000	34.1	150.0	H	228.0	-21.7	39.9	74.0
5247.545000	36.7	349.8	V	50.0	-17.4	37.3	74.0
11363.135000	44.4	100.0	V	150.0	-4.5	29.6	74.0
14231.865000	46.8	149.9	H	269.0	-1.2	27.2	74.0
17963.760000	55.5	141.8	V	306.0	9.1	18.5	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
2023.140000	18.6	100.0	V	84.0	-26.3	35.4	54.0
3579.125000	20.6	150.0	H	228.0	-21.7	33.4	54.0
5247.545000	23.5	349.8	V	50.0	-17.4	30.6	54.0
11363.135000	32.0	100.0	V	150.0	-4.5	22.0	54.0
14231.865000	33.7	149.9	H	269.0	-1.2	20.3	54.0
17963.760000	42.5	141.8	V	306.0	9.1	11.5	54.0

- Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. Peak or CAverage = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
4. Margin = Limit - Peak or CAverage

5. CONCLUSION

The data collected shows that the **Product Name: Smart Phone / Model Name: LM-K200TM** complies with §15.107 and §15.109 of the FCC rules.

6. APPENDIX A. TEST SETUP PHOTO

Please refer to Appendix. A and test setup photo file no. as follows;

File No.	Date of Issue	Description
HCT-EM-2009-FC007-P	September 24, 2020	Initial Release

End of report