TEST REPORT

EMI Test for ISED / FCC Certification of LM-K200QM Model

APPLICANT LG Electronics USA, Inc.

REPORT NO. HCT-EM-2011-FI004

DATE OF ISSUE November 02, 2020

> Tested by Ki-Min Lee

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TEST REPORT

EMI Test for ISED/ FCC Certification REPORT NO.

HCT-EM-2011-FI004

DATE OF ISSUE

November 02, 2020

FCC ID. / IC

ZNFK200QM / 2703C-K200QM

Applicant	LG Electronics USA, Inc. 111 Sylvan Avenue, North Building, Englewood Cliffs NJ 07632 United States
Product Name	Smart Phone
Model Name	LM-K200QM
Series Model Name	Refer to the clause 1.1 Description of EUT
Travel Adaptor Information	Model name: MCS-V01WH
	Manufacturer: PHIHONG
Date of Test	October 07, 2020 to October 13, 2020
Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B
	ICES-003 Issue 6 Class B
	ANSI 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

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REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	November 02, 2020	Initial Release

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.

* The report shall not be reproduced except in full(only partly) without approval of the laboratory.

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1. GENERAL INFORMATION

1.1 Description of EUT

FCC ID	ZNFK200QM
IC	2703C-K200QM
Model Name	LM-K200QM
Series Model Name	LMK200QM, K200QM
Product Name	Smart Phone
TX Frequency	824.70 MHz to 848.31 MHz (CDMA BC0) 1 851.25 MHz to 1 908.75 MHz (CDMA BC1) 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) 2 496 MHz to 2570 MHz (LTE B7) 699 MHz to 716 MHz (LTE B13) 704 MHz to 716 MHz (LTE B17) 1 850 MHz to 1 915 MHz (LTE B25) 1 710 MHz to 1 780 MHz (LTE B66) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)
RX Frequency	869.70 MHz to 893.31 MHz (CDMA BC0) 1 931.25 MHz to 1 988.75 MHz (CDMA BC1) 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) 2 516 MHz to 2690 MHz (LTE B7) 729 MHz to 746 MHz (LTE B13) 734 MHz to 756 MHz (LTE B17) 1 930 MHz to 1 995 MHz (LTE B25) 2 110 MHz to 2 200 MHz (LTE B66) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz)

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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-K200QM	-	LG
TA	MCS-V01WH	-	PHIHONG
DATA Cable	EAD62377921	-	LEAGTECH
Earphone	EMB-LGE41STGWE	-	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)
FUT	Micro USB	Υ	N/A	(P) 1.0
EUT	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
FLIT	Micro USB	N	N/A	Υ	Both End
EUT	Earphone	N	N/A	Υ	EUT End

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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	
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #1	KR0032
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. Espectially, all antenna for measurement is calibrated in accordance with the requirements of C63.5:2017

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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

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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

Face van ex	Resolution	solution Class A		Class B	
Frequency (MHz)	Bandwidth (kHz)	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.

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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

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

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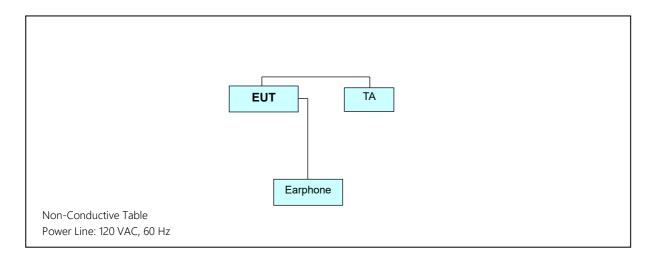


2.2.1 Frequency Range of Radiated Measurements

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 GHz, whichever is lower		

2.3 Configuration of Tested System



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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.

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4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission

4.1.1 Measuring instruments

	Туре	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI test receiver	Rohde & Schwarz	ESCI	100584	1 year	06.10.2020
\boxtimes	LISN	Rohde & Schwarz	ENV216	102245	1 year	09.04.2020
\boxtimes	Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.19.2020
\boxtimes	Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
\boxtimes	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 ICES-003 Issue 6 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 B5 Middle ch Idle)
Kind of Test Site	EMI Shielded Room
Temperature	24.2 / 23.3 °C
Relative Humidity	47.8 / 46.5 %
Test Date	October 08 / October 13, 2020

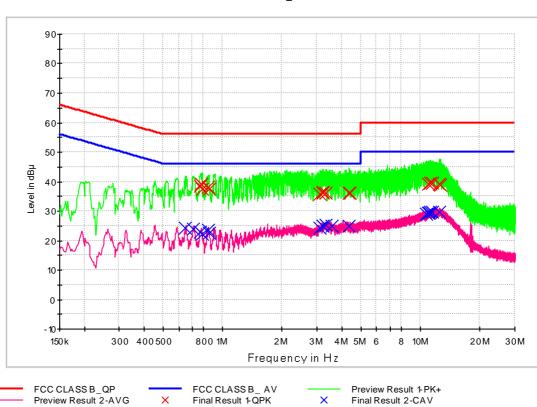
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4.1.3 Measuring Data

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

Preview Result 2-AVG



Final Result 2-CAV

FCC CLASS B_Exten Cable

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QuasiPeak Final Result, Line (L1)

Frequency	QuasiPeak	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(kHz)		(dB)	(dB)	(dBµV)
0.772000	38.6	9.000	L1	9.8	17.4	56.0
0.776000	39.0	9.000	L1	9.8	17.0	56.0
0.780000	39.1	9.000	L1	9.8	16.9	56.0
0.790000	37.6	9.000	L1	9.8	18.4	56.0
0.848000	38.2	9.000	L1	9.8	17.8	56.0
0.854000	37.5	9.000	L1	9.8	18.5	56.0
3.120000	35.6	9.000	L1	9.9	20.4	56.0
3.204000	36.5	9.000	L1	9.9	19.5	56.0
3.226000	36.2	9.000	L1	9.9	19.8	56.0
3.310000	36.3	9.000	L1	9.9	19.7	56.0
4.376000	36.2	9.000	L1	10.0	19.8	56.0
4.384000	36.1	9.000	L1	10.0	19.9	56.0
10.962000	39.0	9.000	L1	10.2	21.0	60.0
11.218000	39.5	9.000	L1	10.2	20.5	60.0
11.456000	39.4	9.000	L1	10.2	20.6	60.0
12.512000	39.0	9.000	L1	10.3	21.0	60.0
12.524000	39.1	9.000	L1	10.3	20.9	60.0
12.642000	38.7	9.000	L1	10.3	21.3	60.0

Calculation Formula:

- 1. Conductor L1 = Hot, Conductor N = Neutral
- 2. Corr. = LISN Factor + Cable Loss
- 3. QuasiPeak or CAverage= Receiver Reading + Corr.
- 4. Margin = Limit QuasiPeak or CAverage

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CAverage Final Result, Line (L1)

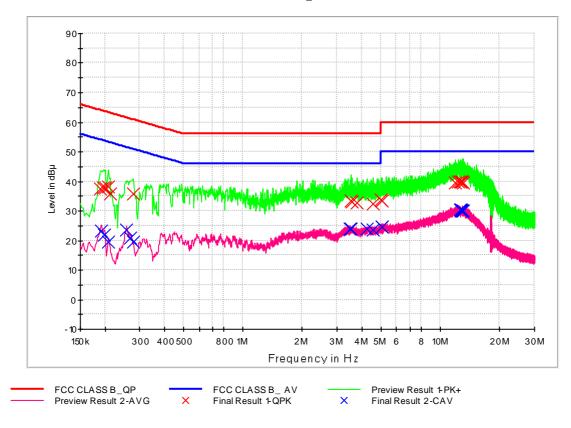
Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.648000	24.4	9.000	L1	9.8	21.6	46.0
0.712000	23.8	9.000	L1	9.8	22.2	46.0
0.768000	23.0	9.000	L1	9.8	23.0	46.0
0.790000	22.2	9.000	L1	9.8	23.8	46.0
0.848000	23.5	9.000	L1	9.8	22.5	46.0
0.854000	22.5	9.000	L1	9.8	23.5	46.0
3.120000	24.3	9.000	L1	9.9	21.7	46.0
3.204000	24.9	9.000	L1	9.9	21.1	46.0
3.226000	24.9	9.000	L1	9.9	21.1	46.0
3.334000	25.3	9.000	L1	9.9	20.7	46.0
3.578000	24.8	9.000	L1	9.9	21.2	46.0
4.376000	24.9	9.000	L1	10.0	21.1	46.0
10.714000	29.0	9.000	L1	10.2	21.0	50.0
10.962000	29.2	9.000	L1	10.2	20.8	50.0
11.068000	29.3	9.000	L1	10.2	20.7	50.0
11.218000	29.5	9.000	L1	10.2	20.5	50.0
11.432000	29.5	9.000	L1	10.2	20.5	50.0
12.524000	29.7	9.000	L1	10.3	20.3	50.0

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





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QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	37.4	9.000	N	9.8	26.7	64.0
0.196000	38.0	9.000	N	9.8	25.8	63.8
0.202000	37.7	9.000	N	9.8	25.8	63.5
0.208000	38.0	9.000	N	9.8	25.3	63.3
0.212000	35.9	9.000	N	9.8	27.2	63.1
0.278000	35.8	9.000	N	9.8	25.1	60.9
3.516000	33.5	9.000	N	9.9	22.5	56.0
3.558000	33.0	9.000	N	9.9	23.0	56.0
3.800000	32.6	9.000	N	9.9	23.4	56.0
4.540000	32.5	9.000	N	10.0	23.5	56.0
5.010000	33.6	9.000	N	10.0	26.4	60.0
5.052000	33.5	9.000	N	10.0	26.5	60.0
11.974000	39.7	9.000	N	10.3	20.3	60.0
12.274000	39.8	9.000	N	10.3	20.2	60.0
12.628000	39.9	9.000	N	10.4	20.1	60.0
12.708000	39.9	9.000	N	10.4	20.1	60.0
12.866000	39.9	9.000	N	10.4	20.1	60.0
13.110000	39.6	9.000	N	10.4	20.4	60.0

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CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
	-					- ' '
0.192000	23.2	9.000	N	9.8	30.8	53.9
0.198000	21.9	9.000	N	9.8	31.8	53.7
0.208000	19.6	9.000	N	9.8	33.7	53.3
0.258000	23.5	9.000	N	9.8	28.0	51.5
0.270000	20.9	9.000	N	9.8	30.3	51.1
0.278000	19.5	9.000	N	9.8	31.4	50.9
3.506000	24.1	9.000	N	9.9	21.9	46.0
3.516000	24.0	9.000	N	9.9	22.0	46.0
4.276000	23.8	9.000	N	10.0	22.2	46.0
4.540000	23.5	9.000	N	10.0	22.5	46.0
5.052000	24.5	9.000	N	10.0	25.5	50.0
5.094000	24.5	9.000	N	10.0	25.5	50.0
12.628000	30.2	9.000	N	10.4	19.8	50.0
12.708000	30.1	9.000	N	10.4	19.9	50.0
12.792000	30.2	9.000	N	10.4	19.8	50.0
12.866000	30.1	9.000	N	10.4	19.9	50.0
12.894000	30.2	9.000	N	10.4	19.8	50.0
13.110000	30.0	9.000	N	10.4	20.0	50.0

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4.2 Radiated Emission Below 1 GHz

4.2.1 Measuring instruments

	Туре	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.12.2020
\boxtimes	Bi-Log antenna	Schwarzbeck	VULB 9168	255	2 year	03.26.2019
\boxtimes	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
	Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
	Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.19.2020
\boxtimes	Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
\boxtimes	Turn table	INNCO Systems	1060	-	N/A	-
\boxtimes	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
	UXM 5G wireless test platform	KEYSIGHT	E7515B	MY58300756	1 year	01.07.2020
	Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-201	-	-
	Radio communication test station	ANRITSU	MT8000A	6262036812	1 year	01.06.2020
	Radio communication analyzer	ANRITSU	MT8821C	6262044720	1 year	01.06.2020
\boxtimes	Software	Rohde & Schwarz	EMC32	-	-	-

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4.2.2 Operating Condition

The test results of radiated emission provide the following information:

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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)
40.596280	25.6	117.9	٧	48.0	19.0	14.4	40.0
62.991120	21.3	100.0	٧	334.0	19.0	18.7	40.0
114.529080	19.4	191.7	٧	290.0	16.8	24.1	43.5
202.875160	21.0	100.0	V	193.0	16.8	22.5	43.5
288.008680	27.7	100.0	Н	60.0	20.1	18.3	46.0
680.484680	28.3	307.7	Н	204.0	28.4	17.7	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

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4.3 Radiated Emission Above 1 GHz

4.3.1 Measuring instruments

	Туре	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.12.2020
\boxtimes	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
\boxtimes	Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
\boxtimes	Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.19.2020
\boxtimes	Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
	Turn table	INNCO Systems	1060	-	N/A	-
\boxtimes	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
\boxtimes	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
\boxtimes	Horn antenna	Schwarzbeck	BBHA 9120D	01836	1 year	07.23.2020
	Radio communication test station	ANRITSU	MT8000A	6262036812	1 year	01.06.2020
	Radio communication analyzer	ANRITSU	MT8821C	6262044720	1 year	01.06.2020
	UXM 5G wireless test platform	KEYSIGHT	E7515B	MY58300756	1 year	01.07.2020
	Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-201	-	-
	Horn antenna	Schwarzbeck	BBHA 9120D	1641	1 year	06.24.2020
	Horn antenna	Schwarzbeck	BBHA 9170	BBHA9170#786	1 year	12.03.2019
\boxtimes	Software	Rohde & Schwarz	EMC32	-	-	-

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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 ICES-003 Issue 6 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 B5 Middle ch Idle)
Kind of Test Site	3 m semi anechoic chamber
Temperature	24.8 / 21.4 °C
Relative Humidity	46.5 / 44.2 %
Test Date	October 07 / October 12, 2020

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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)
2044.005000	31.9	150.0	V	335.0	-26.2	42.1	74.0
4983.000000	39.3	175.5	٧	159.0	-17.8	34.7	74.0
7346.985000	40.8	349.8	V	70.0	-12.3	33.2	74.0
10951.180000	46.0	125.7	V	86.0	-5.2	28.0	74.0
14180.635000	47.3	217.4	V	38.0	-1.4	26.7	74.0
17968.441040	55.3	350.0	Н	328.0	9.2	18.7	74.0
Frequency (MHz)	CAverage (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
2044.005000	18.7	150.0	V	335.0	-26.2	35.3	54.0
4983.000000	21.5	175.5	٧	159.0	-17.8	32.5	54.0
7346.985000	27.9	349.8	٧	70.0	-12.3	26.1	54.0
10951.180000	33.0	125.7	٧	86.0	-5.2	21.0	54.0
14180.635000	34.4	217.4	٧	38.0	-1.4	19.6	54.0
17968.441040	42.7	350.0	Н	328.0	9.2	11.3	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

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5. CONCLUSION

The data collected shows that the **Product Name: Smart Phone / Model Name: LM-K200QM** complies with §15.107 and §15.109 of the FCC rules.

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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-2011-FI004-P	November 02, 2020	Initial Release

End of report

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