TEST REPORT

EMI Test for FCC Certification of LM-K400AM Model

APPLICANT LG Electronics USA, Inc.

REPORT NO. HCT-EM-2003-FC009

DATE OF ISSUE March 17, 2020

HCT Co., Ltd. 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA Tel. +82 31 645 6300 Fax. +82 31 645 6401



HCT Co., Ltd. 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA Tel. +82 31 645 6300 Fax. +82 31 645 6401

TEST REPORT EMI Test for FCC Certification	REPORT NO. HCT-EM-2003-FC009 DATE OF ISSUE March 17, 2020 FCC ID ZNFK400AM			
Applicant	LG Electronics USA, Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States			
Product Name Model Name Series Model Name	Multi-band GSM/WCDMA/LTE Phone with WLAN and Bluetooth LM-K400AM Refer to the clause 1.1 Description of EUT			
Travel Adaptor Information	Model name: MCS-V01WH Manufacturer: PHIHONG			
Date of Test	March 11, 2020 to March 16, 2020			
Test Standard Used	FCC CFR 47 PART 15 Subpart B 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.			
	Tested by Na-Eun Song			
	Technical Manager Jeong-Hyun Choi			



REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	March 17, 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

This Test Report is not related to the accredited test result by KOLAS(Korea Laboratory Accreditation Scheme) / A2LA(American Association for Laboratory Accreditation), which signed the ILAC-MRA.



CONTENTS

1. GENERAL INFORMATION	5
1.1 Description of EUT	5
1.2 Tested System Details	5
1.3 Cable Description	6
1.4 Noise Suppression Parts on Cable. (I/O Cable)	6
1.5 Test Facility	7
1.6 Calibration of Measuring Instrument	7
1.7 Measurement Uncertainty	7
2. DESCRIPTION OF TEST	8
2.1 Measurement of Conducted Emission	8
2.2 Measurement of Radiated Emission	9
2.3 Configuration of Tested System	10
3. PRELIMINARY TEST	11
3.1 Conducted Emission	11
3.2 Radiated Emission	11
4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY	12
4.1 Conducted Emission	12
4.2 Radiated Emission Below 1 GHz	19
4.3 Radiated Emission Above 1 GHz	21
5. CONCLUSION	24
6. APPENDIX A. TEST SETUP PHOTO	25



1. GENERAL INFORMATION

1.1 Description of EUT

FCC ID	ZNFK400AM
Model Name	LM-K400AM
Series Model Name	LM-K400AKR, LMK400AM, LMK400AKR, K400AM, K400AKR
Product Name	Multi-band GSM/WCDMA/LTE Phone with WLAN and Bluetooth
	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)
TX Frequency	824 MHz to 849 MHz (LTE B5)
	699 MHz to 716 MHz (LTE B12)
	788 MHz to 798 MHz (LTE B14)
	2 305 MHz to 2 315 MHz (LTE B30)
	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)
	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)
RX Frequency	869 MHz to 894 MHz (LTE B5)
	729 MHz to 746 MHz (LTE B12)
	758 MHz to 768 MHz (LTE B14)
	717 MHz to 728 MHz (LTE B29)
	2 350 MHz to 2 360 MHz (LTE B30)
	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)



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-K400AM	-	LG
Travel Adaptor	MCS-V01WH	-	PHIHONG
Data Cable	EAD64746102	-	LUXSHARE
Earphone	EAB63728251	-	CRESYN
Micro SD Card	SAMSUNG EVO+microSDXC CLASS10 UHS-I (256 GB)	-	SAMSUNG

1.3 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
	USB Type C	Y	N/A	(P) 1.0
EUT	Earphone	N/A	Ν	(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
	USB Type C	Ν	N/A	Y	Both End
EUT	Earphone	Ν	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	
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #1	KR0032
Radiated Field strength measurement facility 10 m Semi Anechoic chamber #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

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)	1.8 dB
3 m Radiated Emissions (30 MHz to 1 GHz)	4.8 dB
3 m Radiated Emissions (1 GHz to 18 GHz)	5.4 dB
3 m Radiated Emissions (18 GHz to 40 GHz)	5.7 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.

Frequency	Resolution	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

Conducted Emission Limits

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)

		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	Automa			s A	Cla	ss B	
Frequency (MHz)	Antenna D (m)		Peak (dBµV/m)	Average (dBµV/m)	Peak (dBµV/m)	Average (dBµV/m)	
Above 1 000	3		80	60	74	54	

Radiated Emission Limits

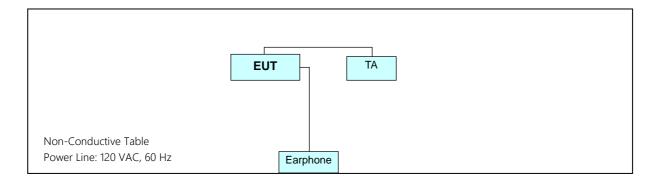


2.2.1 Frequency Range of Radiated Measurements

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





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

	Туре	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.18.2019
\boxtimes	LISN	Rohde & Schwarz	ENV216	102245	1 year	09.11.2019
\boxtimes	Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.20.2019
\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 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	FRONT CAMERA & MP3 mode
Kind of Test Site	EMI Shielded Room
Temperature	22.7 °C
Relative Humidity	41.8 %
Test Date	March 11, 2020

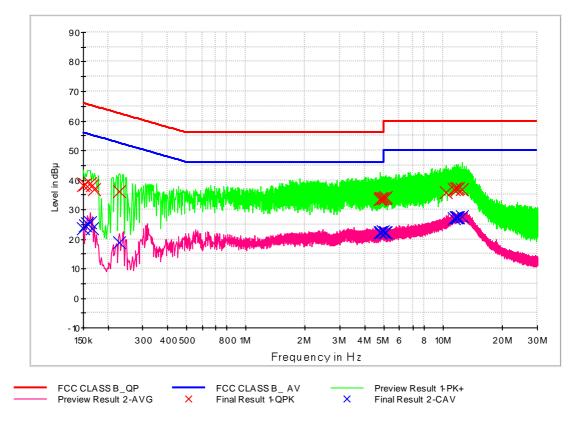
Calculation Formula:

- 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



4.1.3 Measuring Data

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



FCC CLASS B_Exten Cable



QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	38.0	9.000	L1	9.8	28.0	66.0
0.154000	38.4	9.000	L1	9.8	27.4	65.8
0.162000	38.7	9.000	L1	9.8	26.7	65.4
0.166000	38.0	9.000	L1	9.8	27.1	65.2
0.170000	36.7	9.000	L1	9.8	28.3	65.0
0.228000	36.2	9.000	L1	9.8	26.3	62.5
4.810000	33.4	9.000	L1	10.0	22.6	56.0
4.820000	33.7	9.000	L1	10.0	22.3	56.0
4.850000	33.6	9.000	L1	10.0	22.4	56.0
4.940000	33.8	9.000	L1	10.0	22.2	56.0
5.096000	33.6	9.000	L1	10.0	26.4	60.0
5.106000	34.0	9.000	L1	10.0	26.0	60.0
10.378000	35.9	9.000	L1	10.2	24.1	60.0
11.338000	36.9	9.000	L1	10.3	23.1	60.0
11.580000	37.2	9.000	L1	10.3	22.8	60.0
11.798000	36.8	9.000	L1	10.3	23.2	60.0
11.852000	37.1	9.000	L1	10.3	22.9	60.0
12.518000	36.7	9.000	L1	10.3	23.3	60.0

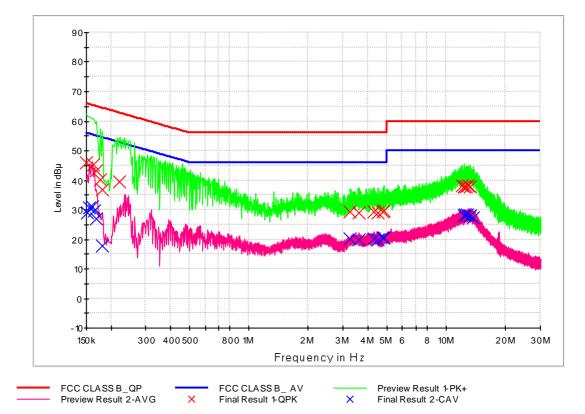


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	23.5	9.000	L1	9.8	32.5	56.0
0.154000	24.4	9.000	L1	9.8	31.4	55.8
0.158000	25.4	9.000	L1	9.8	30.2	55.6
0.162000	25.5	9.000	L1	9.8	29.9	55.4
0.166000	23.7	9.000	L1	9.8	31.5	55.2
0.228000	18.8	9.000	L1	9.8	33.7	52.5
4.810000	22.1	9.000	L1	10.0	23.9	46.0
4.820000	22.3	9.000	L1	10.0	23.7	46.0
4.850000	22.3	9.000	L1	10.0	23.7	46.0
4.940000	22.5	9.000	L1	10.0	23.5	46.0
5.096000	22.3	9.000	L1	10.0	27.7	50.0
5.106000	22.3	9.000	L1	10.0	27.7	50.0
11.338000	26.9	9.000	L1	10.3	23.1	50.0
11.580000	27.3	9.000	L1	10.3	22.7	50.0
11.798000	27.4	9.000	L1	10.3	22.6	50.0
11.852000	27.4	9.000	L1	10.3	22.6	50.0
11.874000	27.4	9.000	L1	10.3	22.6	50.0
12.518000	27.8	9.000	L1	10.3	22.2	50.0



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



FCC CLASS B_Exten Cable





QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	46.0	9.000	Ν	9.8	20.0	66.0
0.162000	45.3	9.000	Ν	9.8	20.0	65.4
0.168000	43.3	9.000	Ν	9.8	21.8	65.1
0.176000	40.1	9.000	Ν	9.8	24.6	64.7
0.180000	36.9	9.000	Ν	9.8	27.6	64.5
0.220000	39.6	9.000	Ν	9.8	23.3	62.8
3.270000	29.3	9.000	Ν	9.9	26.7	56.0
3.630000	29.1	9.000	Ν	10.0	26.9	56.0
4.316000	29.5	9.000	Ν	10.0	26.5	56.0
4.488000	29.0	9.000	Ν	10.0	27.0	56.0
4.790000	29.4	9.000	Ν	10.0	26.6	56.0
4.814000	29.7	9.000	Ν	10.0	26.3	56.0
12.042000	38.0	9.000	Ν	10.3	22.0	60.0
12.362000	37.8	9.000	Ν	10.3	22.2	60.0
12.402000	37.8	9.000	Ν	10.3	22.2	60.0
12.606000	37.8	9.000	Ν	10.4	22.2	60.0
12.924000	38.0	9.000	Ν	10.4	22.0	60.0
13.154000	37.7	9.000	Ν	10.4	22.3	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	29.1	9.000	Ν	9.8	26.8	55.9
0.156000	30.6	9.000	Ν	9.8	25.1	55.7
0.160000	30.9	9.000	Ν	9.8	24.6	55.5
0.164000	29.7	9.000	Ν	9.8	25.6	55.3
0.168000	27.0	9.000	Ν	9.8	28.1	55.1
0.180000	17.7	9.000	Ν	9.8	36.8	54.5
3.270000	20.3	9.000	Ν	9.9	25.7	46.0
3.630000	19.8	9.000	Ν	10.0	26.2	46.0
4.316000	20.2	9.000	Ν	10.0	25.8	46.0
4.488000	19.9	9.000	Ν	10.0	26.1	46.0
4.790000	20.4	9.000	Ν	10.0	25.6	46.0
4.814000	20.6	9.000	Ν	10.0	25.4	46.0
12.362000	28.0	9.000	Ν	10.3	22.0	50.0
12.524000	28.2	9.000	Ν	10.4	21.8	50.0
12.810000	28.2	9.000	Ν	10.4	21.8	50.0
13.154000	28.1	9.000	Ν	10.4	21.9	50.0
13.284000	28.0	9.000	Ν	10.4	22.0	50.0
13.742000	27.3	9.000	Ν	10.4	22.7	50.0



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	05.17.2019
\boxtimes	Trilog 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	-
\boxtimes	Turn Table	INNCO Systems	1060	-	N/A	-
\square	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
\boxtimes	Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.20.2019
\boxtimes	Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
\boxtimes	Software	Rohde & Schwarz	EMC32	-	-	-

4.2.2 Operating Condition

The test results of radiated emission provide the following information:

FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
30 MHz to 1 000 MHz
Quasi-Peak
120 kHz (6 dB)
FRONT CAMERA & MP3 mode
3 m semi anechoic chamber
21.9 °C
40.8 %
March 13, 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)
32.480200	22.4	116.9	v	351.0	18.5	17.6	40.0
53.419600	21.0	174.9	v	225.0	19.7	19.0	40.0
62.629000	18.6	225.1	v	61.0	19.0	21.4	40.0
486.956400	24.0	206.8	v	341.0	25.0	22.0	46.0
702.507000	28.8	207.8	н	276.0	28.8	17.2	46.0
932.353400	31.9	100.0	v	18.0	31.8	14.1	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

	Туре	Manufacturer	Model Name	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI test receiver	Rohde & Schwarz	ESU40	100524	1 year	05.17.2019
	Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
\boxtimes	Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L N/A		-
\boxtimes	Turn table	INNCO Systems	1060	-	N/A	-
	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	07.19.2019
	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170#786	1 year	12.03.2019
\boxtimes	Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.20.2019
\boxtimes	Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
\boxtimes	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	2 480 MHz
Tested Frequency Range	1 GHz to 18 GHz
Worst Case of Operating Mode	FRONT CAMERA & MP3 mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	21.5 ℃
Relative Humidity	40.3 %
Test Date	March 16, 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)
3315.015000	33.8	149.9	v	181.0	-22.3	40.2	74.0
4901.125000	36.6	278.5	V	320.0	-18.1	37.4	74.0
7272.790000	41.1	161.7	н	230.0	-12.6	32.9	74.0
9773.020000	43.0	125.8	н	72.0	-9.4	31.0	74.0
11435.970000	45.5	176.4	н	230.0	-4.5	28.5	74.0
14273.445000	46.6	305.5	н	55.0	-1.6	27.4	74.0

Frequency (MHz)	CAverage (dBµV/m)	Antenna Height (cm)	pol. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
3315.015000	20.8	149.9	V	181.0	-22.3	33.2	54.0
4901.125000	24.1	278.5	V	320.0	-18.1	29.9	54.0
7272.790000	27.9	161.7	н	230.0	-12.6	26.1	54.0
9773.020000	30.8	125.8	н	72.0	-9.4	23.2	54.0
11435.970000	32.6	176.4	н	230.0	-4.5	21.4	54.0
14273.445000	33.5	305.5	н	55.0	-1.6	20.5	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: Multi-band GSM/WCDMA/LTE Phone with WLAN and Bluetooth, Model Name: LM-K400AM** 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-2003-FC009-P	March 17, 2020	Initial Release		

End of report