

TEST REPORT

EMI Test for FCC Certification of LM-K300TM Model

APPLICANT

LG Electronics USA, Inc.

REPORT NO.

HCT-EM-2003-FC014-R1

DATE OF ISSUE

April 13, 2020

HCT Co., Ltd.

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FCC ID

ZNFK300TM

Applicant

LG Electronics USA, Inc.

1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States

Product Name

Multi-band GSM/CDMA/WCDMA/LTE Phone with WLAN, Bluetooth

Model Name

LM-K300TM

Series Model Name

Refer to the clause 1.1 Description of EUT

Date of Test

March 16, 2020 to March 21, 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

(signature)

Technical Manager

Jeong-Hyun Choi

(signature)

This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd.

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	March 24, 2020	Initial Release
1	April 13, 2020	Added the frequency in clause 1.1

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 denied 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	7
1.3 Cable Description	8
1.4 Noise Suppression Parts on Cable. (I/O Cable)	8
1.5 Test Facility	9
1.6 Calibration of Measuring Instrument	9
1.7 Measurement Uncertainty	9
2. DESCRIPTION OF TEST	10
2.1 Measurement of Conducted Emission	10
2.2 Measurement of Radiated Emission	11
2.3 Configuration of Tested System	12
3. PRELIMINARY TEST	13
3.1 Conducted Emission	13
3.2 Radiated Emission	13
4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY	14
4.1 Conducted Emission	14
4.2 Radiated Emission Below 1 GHz	21
4.3 Radiated Emission Above 1 GHz	23
5. CONCLUSION	26
6. APPENDIX A. TEST SETUP PHOTO	27

1. GENERAL INFORMATION

1.1 Description of EUT

FCC ID	ZNFK300TM
Model Name	LM-K300TM
Series Model Name	LM-K300TMS, LMK300TM, LMK300TMS, K300TM, K300TMS, LM-K300MM, LMK300MM, K300MM
Product Name	Multi-band GSM/CDMA/WCDMA/LTE Phone with WLAN, Bluetooth
TX Frequency	824.70 MHz to 848.31 MHz (CDMA BC0) 1 851.25 MHz to 1 908.75 MHz (CDMA BC1) 817.90 MHz to 823.10 MHz (CDMA BC10) 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) 2 496 MHz to 2 690 MHz (LTE B41 HPUE) 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) 5 180 MHz to 5 240 MHz (WiFi 5 GHz_UNII 1) 5 260 MHz to 5 320 MHz (WiFi 5 GHz_UNII 2A) 5 500 MHz to 5 720 MHz (WiFi 5 GHz_UNII 2C) 5 745 MHz to 5 825 MHz (WiFi 5 GHz_UNII 3)

RX Frequency	869.70 MHz to 893.31 MHz (CDMA BC0)
	1 931.25 MHz to 1 988.75 MHz (CDMA BC1)
	862.00 MHz to 894.00 MHz (CDMA BC10)
	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)
	2 496 MHz to 2 690 MHz (LTE B41 HPUE)
	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)
	5 180 MHz to 5 240 MHz (WiFi 5 GHz_UNII 1)
	5 260 MHz to 5 320 MHz (WiFi 5 GHz_UNII 2A)
	5 500 MHz to 5 720 MHz (WiFi 5 GHz_UNII 2C)
	5 745 MHz to 5 825 MHz (WiFi 5 GHz_UNII 3)

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-K300TM	-	LG
Notebook PC	ProBook6560b	5CB2053MXF	HP
Notebook PC Adaptor	Series PPP009L-E	-	LITE-ON Technology (CHANGZHOU)
Gateway	DIR-806M	-	D-Link
Gateway Adaptor	AMS1-0501200FK	-	D-Link
Serial Mouse	Serial 2 Button mouse	02031069	Radio Shack
RJ45 cable	-	-	-
Data Cable	EAD63769722	-	Cresyn
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	Y	(P,D) 1.0
	Earphone	N/A	N	(D) 1.2
Notebook PC	RJ 45	N/A	N	(D) 1.6
	Serial(Mouse)	N/A	Y	(D) 1.8
	DC IN	N	N/A	(P) 1.8
Gateway	DC IN	N	N/A	(P) 1.8

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
Notebook PC	RJ 45	N	N/A	N	N/A
	Serial(Mouse)	N	N/A	Y	Notebook PC 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	

1.6 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance 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)	1.8 dB
Radiated Emissions (30 MHz to 1 GHz)	4.8 dB
Radiated Emissions (1 GHz to 18 GHz)	5.4 dB
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.

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

- 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.
- The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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.
- 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.
- 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

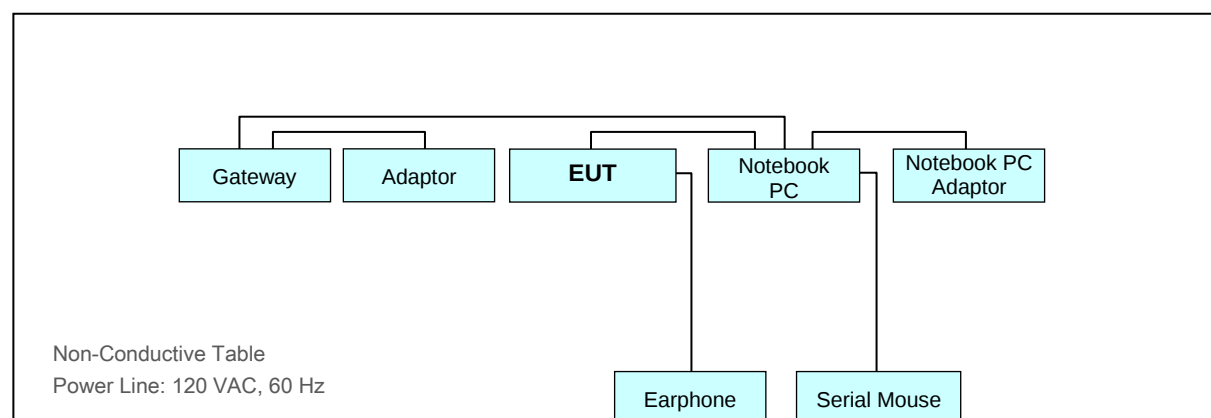
Frequency (MHz)	Class A			Class B		
	Antenna Distance (m)	Field Strength ($\mu\text{V/m}$)	Quasi-Peak (dB $\mu\text{V/m}$)	Antenna Distance (m)	Field Strength ($\mu\text{V/m}$)	Quasi-Peak (dB $\mu\text{V/m}$)
30 to 88	10	90	39.0	3	100	40.0
88 to 216	10	150	43.5	3	150	43.5
216 to 960	10	210	46.4	3	200	46.0
Above 960	10	300	49.5	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Class A		Class B		
		Peak (dB $\mu\text{V/m}$)	Average (dB $\mu\text{V/m}$)	Peak (dB $\mu\text{V/m}$)	Average (dB $\mu\text{V/m}$)	
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 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: Data Communication mode

3.2 Radiated Emission

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

Operating Modes: Data Communication mode

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	06.18.2019
☒	LISN	Rohde & Schwarz	ENV216	102245	1 year	09.11.2019
☒	LISN	Rohde & Schwarz	ENV216	100073	1 year	04.30.2019
☒	Software	Rohde & Schwarz	EMC32	-	-	-

4.1.2 Operating Condition

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

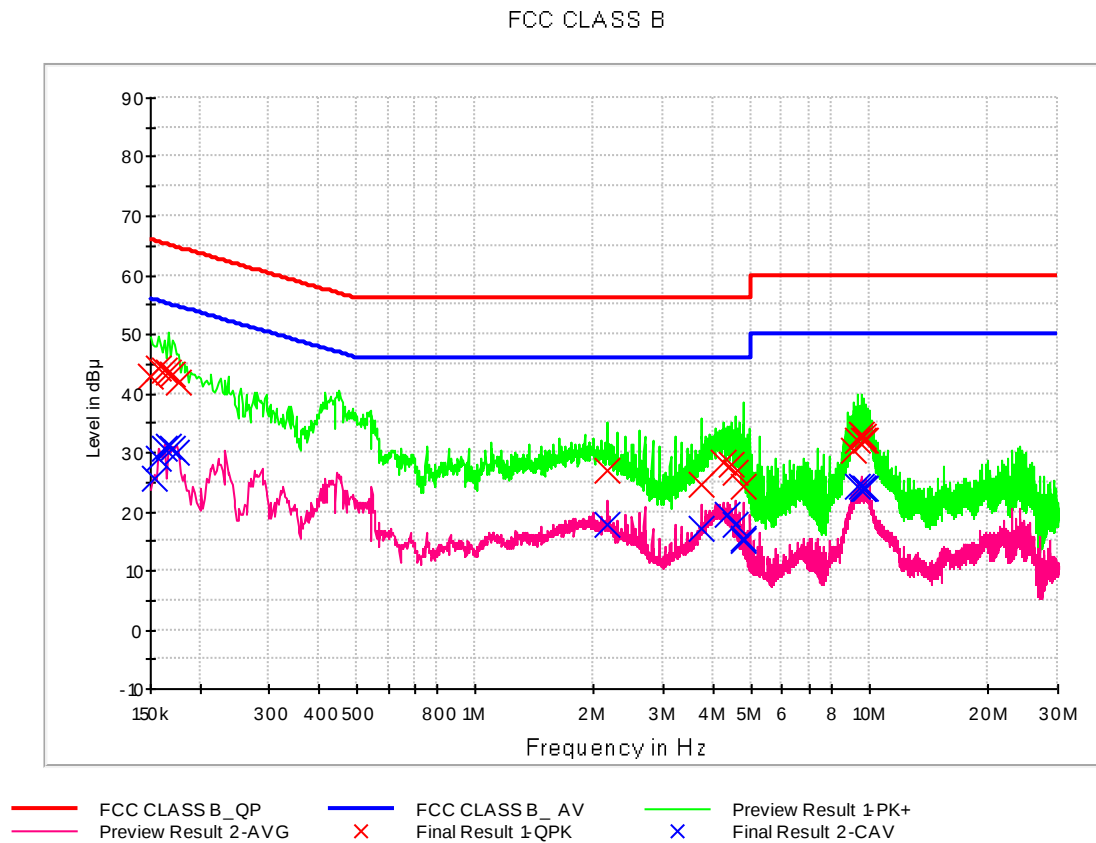
Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Frequency Range	150 kHz to 30 MHz
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operating Mode	Data Communication mode
Kind of Test Site	EMI Shielded Room
Temperature	21.5 °C
Relative Humidity	40.2 %
Test Date	March 16, 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, AC Main Port, Line (L1)



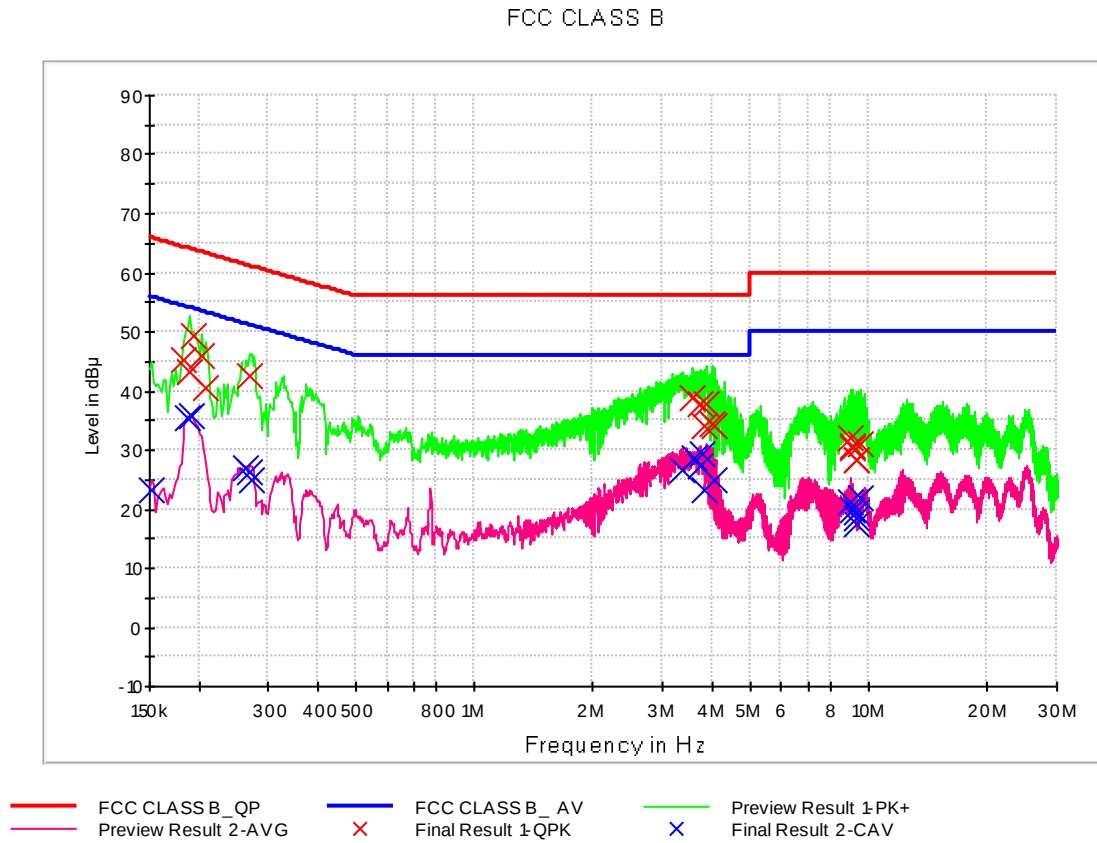
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	42.7	9.000	L1	9.7	23.3	66.0
0.158000	44.2	9.000	L1	9.7	21.4	65.6
0.162000	44.0	9.000	L1	9.7	21.4	65.4
0.166000	43.6	9.000	L1	9.7	21.5	65.2
0.170000	43.2	9.000	L1	9.7	21.8	65.0
0.176000	41.8	9.000	L1	9.7	22.9	64.7
2.154000	26.9	9.000	L1	9.8	29.1	56.0
3.740000	24.7	9.000	L1	9.8	31.3	56.0
4.256000	28.2	9.000	L1	9.8	27.8	56.0
4.466000	27.9	9.000	L1	9.8	28.1	56.0
4.568000	26.6	9.000	L1	9.8	29.4	56.0
4.806000	24.2	9.000	L1	9.8	31.8	56.0
9.108000	30.5	9.000	L1	9.9	29.5	60.0
9.310000	32.2	9.000	L1	9.9	27.8	60.0
9.482000	33.0	9.000	L1	9.9	27.0	60.0
9.624000	32.1	9.000	L1	9.9	27.9	60.0
9.630000	32.7	9.000	L1	9.9	27.3	60.0
9.728000	32.0	9.000	L1	9.9	28.0	60.0

CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154000	25.5	9.000	L1	9.7	30.3	55.8
0.158000	28.8	9.000	L1	9.7	26.7	55.6
0.162000	30.7	9.000	L1	9.7	24.7	55.4
0.166000	31.1	9.000	L1	9.7	24.1	55.2
0.170000	30.8	9.000	L1	9.7	24.1	55.0
0.174000	29.9	9.000	L1	9.7	24.8	54.8
2.154000	17.8	9.000	L1	9.8	28.2	46.0
3.740000	17.1	9.000	L1	9.8	28.9	46.0
4.360000	19.4	9.000	L1	9.8	26.6	46.0
4.568000	17.9	9.000	L1	9.8	28.1	46.0
4.776000	15.0	9.000	L1	9.8	31.0	46.0
4.806000	15.5	9.000	L1	9.8	30.5	46.0
9.312000	24.1	9.000	L1	9.9	25.9	50.0
9.480000	24.3	9.000	L1	9.9	25.7	50.0
9.624000	24.0	9.000	L1	9.9	26.0	50.0
9.630000	24.0	9.000	L1	9.9	26.0	50.0
9.682000	24.0	9.000	L1	9.9	26.0	50.0
9.728000	24.1	9.000	L1	9.9	25.9	50.0

Figure 2: Conducted Emission, AC Main Port, Line (N)



QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.182000	45.2	9.000	N	9.7	19.2	64.4
0.190000	43.3	9.000	N	9.7	20.7	64.0
0.194000	49.3	9.000	N	9.7	14.6	63.9
0.204000	46.1	9.000	N	9.7	17.4	63.4
0.208000	40.6	9.000	N	9.7	22.7	63.3
0.268000	42.5	9.000	N	9.7	18.7	61.2
3.584000	38.9	9.000	N	9.8	17.1	56.0
3.722000	37.9	9.000	N	9.8	18.1	56.0
3.838000	34.1	9.000	N	9.8	21.9	56.0
3.862000	37.7	9.000	N	9.8	18.3	56.0
4.000000	34.4	9.000	N	9.8	21.6	56.0
4.058000	34.0	9.000	N	9.8	22.0	56.0
9.036000	32.1	9.000	N	9.9	27.9	60.0
9.096000	30.5	9.000	N	9.9	29.5	60.0
9.106000	30.8	9.000	N	9.9	29.2	60.0
9.310000	28.3	9.000	N	9.9	31.7	60.0
9.344000	28.2	9.000	N	9.9	31.8	60.0
9.554000	30.9	9.000	N	9.9	29.1	60.0

CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	23.3	9.000	N	9.7	32.5	55.9
0.188000	35.5	9.000	N	9.7	18.6	54.1
0.192000	35.8	9.000	N	9.7	18.2	53.9
0.264000	27.0	9.000	N	9.7	24.3	51.3
0.268000	26.2	9.000	N	9.7	24.9	51.2
0.272000	25.0	9.000	N	9.7	26.0	51.1
3.386000	26.7	9.000	N	9.8	19.3	46.0
3.626000	28.6	9.000	N	9.8	17.4	46.0
3.762000	27.2	9.000	N	9.8	18.8	46.0
3.804000	29.3	9.000	N	9.8	16.7	46.0
3.838000	23.3	9.000	N	9.8	22.7	46.0
4.058000	24.8	9.000	N	9.8	21.2	46.0
9.036000	21.3	9.000	N	9.9	28.7	50.0
9.096000	20.0	9.000	N	9.9	30.0	50.0
9.304000	17.4	9.000	N	9.9	32.6	50.0
9.310000	18.4	9.000	N	9.9	31.6	50.0
9.344000	19.3	9.000	N	9.9	30.7	50.0
9.554000	21.8	9.000	N	9.9	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	05.17.2019
☒ Trilog antenna	Schwarzbeck	VULB 9168	255	2 year	03.26.2019
☒ Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	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	-
☒ 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)
Operating Mode	Data Communication mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	20.6 °C
Relative Humidity	42.1 %
Test Date	March 19, 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)
30.637800	27.8	174.7	V	258.0	18.4	12.2	40.0
40.945800	20.9	174.9	V	228.0	19.1	19.1	40.0
66.575000	29.4	192.8	V	220.0	19.4	10.6	40.0
87.530000	31.4	210.8	H	96.0	14.6	8.6	40.0
132.789200	32.5	100.0	V	120.0	18.5	11.0	43.5
265.596600	35.0	125.1	H	149.0	19.3	11.0	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	05.17.2019
☒	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	-
☒	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	07.19.2019
☒	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	5 825 MHz
Tested Frequency Range	1 GHz to 30 GHz
Operation Mode	Data Communication mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.2 °C
Relative Humidity	41.9 %
Test Date	March 21, 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)
1333.635000	40.4	305.6	V	235.0	-28.5	33.6	74.0
1744.090000	42.2	111.4	V	38.0	-27.3	31.8	74.0
2101.240000	45.5	100.0	V	51.0	-26.2	28.5	74.0
2657.355000	45.5	100.0	V	52.0	-23.8	28.5	74.0
4486.880000	42.1	100.0	V	0.0	-19.3	31.9	74.0
5998.210000	42.7	100.0	V	114.0	-16.4	31.3	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1333.635000	18.1	305.6	V	235.0	-28.5	35.9	54.0
1744.090000	18.9	111.4	V	38.0	-27.3	35.1	54.0
2101.240000	20.0	100.0	V	51.0	-26.2	34.0	54.0
2657.355000	20.7	100.0	V	52.0	-23.8	33.3	54.0
4486.880000	26.2	100.0	V	0.0	-19.3	27.8	54.0
5998.210000	26.6	100.0	V	114.0	-16.4	27.4	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/CDMA/WCDMA/LTE Phone with WLAN, Bluetooth, Model Name: LM-K300TM** 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-FC014-P	March 24, 2020	Initial Release

End of report