

# **TEST REPORT**

EMI Test for FCC Certification of LM-K300AM Model

APPLICANT
LG Electronics USA, Inc.

REPORT NO.
HCT-EM-2002-FC008

DATE OF ISSUE February 18, 2020



#### HCT Co., Ltd.

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REPORT NO. HCT-EM-2002-FC008

DATE OF ISSUE February 18, 2020

FCC ID ZNFK300AM

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, Bluetooth LM-K300AM Refer to the clause 1.1 Description of EUT
Date of Test	January 28, 2020 to February 11, 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.

Technical Manager Jeong-Hyun Choi

Tested by Na-Eun Song

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#### **REVISION HISTORY**

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

Revision No.	Date of Issue	Description
0	February 18, 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.



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## 1. GENERAL INFORMATION

# 1.1 Description of EUT

FCC ID	ZNFK300AM
Model Name	LM-K300AM
Series Model Name	LM-K300CMR, LMK300AM, LMK300CMR, K300AM, K300CMR
Product Name	Multi-band GSM/WCDMA/LTE Phone with WLAN, 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)
TX Frequency	1 710 MHz to 1 755 MHz (LTE B4)
	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)
	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)
RX Frequency	2 110 MHz to 2 155 MHz (LTE B4)
nx rrequency	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)
	2 402 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-K300AM	-	LG
Notebook PC	ProBook6560b	5CB2053MXF	НР
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	EAD62377927	-	NINGBO
Data Cable	EAD62377922	-	KSD
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	Υ	Υ	(P,D) 1.0
EUT	Earphone	N/A	N	(D) 1.2
	RJ 45	N/A	N	(D) 1.6
Notebook PC	Serial (Mouse)	N/A	Υ	(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
FLIT	Micro USB	N	N/A	Υ	Both End
EUT	Earphone	N	N/A	Υ	EUT End
	RJ 45	N	N/A	N	N/A
Notebook PC	Serial (Mouse)	N	N/A	Υ	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	
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
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

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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**

Canada and a	Resolution	olution 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.



#### 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 Cla			Class B	ass 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	A		Clas	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

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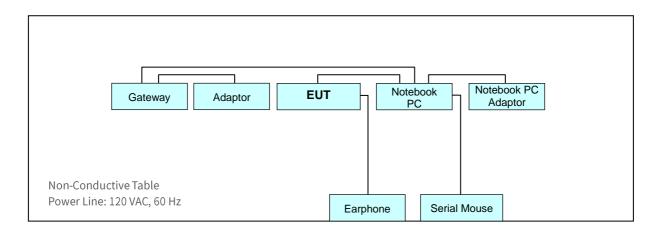


#### 2.2.1 Frequency Range of Radiated Measurements

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





### 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

Туре		Type Manufacturer		Serial Number	Calibration Cycle	Calibration Date
$\boxtimes$	EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.18.2019
	LISN	Rohde & Schwarz	ENV216	102245	1 year	09.112019
$\boxtimes$	LISN	Rohde & Schwarz	ENV216	100073	1 year	04.30.2019
$\boxtimes$	Software	Rohde & Schwarz	EMC32	-	-	-

### 4.1.2 Operating Condition

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

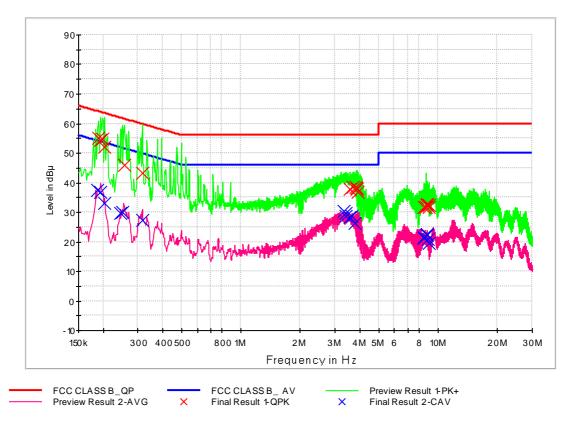
Test Standard Used	FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014
Frequency Range	150 kHz to 30 MHz
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operating Mode	Data Communication mode
Worst Case of Data Cable	KSD (EAD62377922)
Kind of Test Site	EMI Shielded Room
Temperature	22.7°C
Relative Humidity	43.2 %
Test Date	February 11, 2020



### 4.1.3 Measuring Data

Figure 1: Conducted Emission, AC Main Port, Line (L1)

#### FCC CLASS B





### QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	54.9	9.000	L1	9.7	9.1	64.0
0.194000	54.3	9.000	L1	9.7	9.6	63.9
0.198000	54.6	9.000	L1	9.7	9.1	63.7
0.204000	52.0	9.000	L1	9.7	11.5	63.4
0.256000	46.0	9.000	L1	9.7	15.6	61.6
0.316000	43.1	9.000	L1	9.7	16.7	59.8
3.554000	37.7	9.000	L1	9.8	18.3	56.0
3.688000	38.4	9.000	L1	9.8	17.6	56.0
3.824000	38.4	9.000	L1	9.8	17.6	56.0
3.862000	37.7	9.000	L1	9.8	18.3	56.0
3.894000	38.1	9.000	L1	9.8	17.9	56.0
3.924000	36.8	9.000	L1	9.8	19.2	56.0
8.476000	31.6	9.000	L1	9.9	28.4	60.0
8.664000	31.8	9.000	L1	9.9	28.2	60.0
8.756000	32.8	9.000	L1	9.9	27.2	60.0
8.766000	32.3	9.000	L1	9.9	27.7	60.0
8.944000	32.3	9.000	L1	9.9	27.7	60.0
9.020000	31.7	9.000	L1	9.9	28.3	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



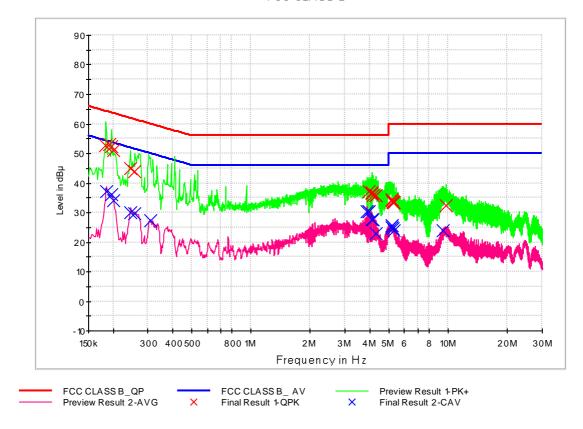
### CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.188000	37.4	9.000	L1	9.7	16.7	54.1
0.194000	36.9	9.000	L1	9.7	16.9	53.9
0.204000	33.1	9.000	L1	9.7	20.4	53.4
0.244000	29.7	9.000	L1	9.7	22.2	52.0
0.250000	30.2	9.000	L1	9.7	21.6	51.8
0.316000	27.2	9.000	L1	9.7	22.6	49.8
3.346000	30.4	9.000	L1	9.8	15.6	46.0
3.414000	29.7	9.000	L1	9.8	16.3	46.0
3.418000	28.7	9.000	L1	9.8	17.3	46.0
3.554000	28.3	9.000	L1	9.8	17.7	46.0
3.660000	28.6	9.000	L1	9.8	17.4	46.0
3.802000	26.1	9.000	L1	9.8	19.9	46.0
8.476000	21.6	9.000	L1	9.9	28.4	50.0
8.502000	21.1	9.000	L1	9.9	28.9	50.0
8.756000	22.4	9.000	L1	9.9	27.6	50.0
8.766000	22.0	9.000	L1	9.9	28.0	50.0
8.880000	21.0	9.000	L1	9.9	29.0	50.0
9.020000	19.5	9.000	L1	9.9	30.5	50.0



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

#### FCC CLASS B





### QuasiPeak Final Result, Line (N)

Frequency	QuasiPeak	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(kHz)	Line	(dB)	(dB)	(dBµV
0.184000	52.8	9.000	N	9.7	11.5	64.3
0.192000	53.1	9.000	N	9.7	10.8	63.9
0.196000	52.5	9.000	N	9.7	11.3	63.8
0.202000	51.1	9.000	N	9.7	12.5	63.5
0.244000	44.9	9.000	N	9.7	17.1	62.0
0.258000	44.1	9.000	N	9.7	17.4	61.5
3.956000	37.1	9.000	N	9.8	18.9	56.0
4.100000	36.9	9.000	N	9.8	19.1	56.0
4.114000	36.4	9.000	N	9.8	19.6	56.0
4.176000	35.9	9.000	N	9.8	20.1	56.0
4.300000	35.8	9.000	N	9.8	20.2	56.0
4.304000	35.9	9.000	N	9.8	20.1	56.0
5.170000	34.0	9.000	N	9.8	26.0	60.0
5.178000	34.6	9.000	N	9.8	25.4	60.0
5.224000	33.5	9.000	N	9.8	26.5	60.0
5.268000	33.7	9.000	N	9.8	26.3	60.0
5.332000	33.4	9.000	N	9.8	26.6	60.0
9.740000	32.3	9.000	N	9.9	27.7	60.0



### CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.186000	37.2	9.000	N	9.7	17.0	54.2
0.196000	36.3	9.000	N	9.7	17.5	53.8
0.202000	34.1	9.000	N	9.7	19.4	53.5
0.246000	30.2	9.000	N	9.7	21.7	51.9
0.258000	29.5	9.000	N	9.7	22.0	51.5
0.308000	27.3	9.000	N	9.7	22.8	50.0
3.894000	30.3	9.000	N	9.8	15.7	46.0
3.980000	30.2	9.000	N	9.8	15.8	46.0
3.986000	30.3	9.000	N	9.8	15.7	46.0
4.100000	27.8	9.000	N	9.8	18.2	46.0
4.176000	27.6	9.000	N	9.8	18.4	46.0
4.320000	23.0	9.000	N	9.8	23.0	46.0
5.170000	25.0	9.000	N	9.8	25.0	50.0
5.178000	25.5	9.000	N	9.8	24.5	50.0
5.190000	25.6	9.000	N	9.8	24.4	50.0
5.242000	24.7	9.000	N	9.8	25.3	50.0
5.332000	23.9	9.000	N	9.8	26.1	50.0
9.444000	23.8	9.000	N	9.9	26.2	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	-
$\boxtimes$	Antenna master controller	INNCO Systems	CO 3000	CO3000/870/ 35990515/L	N/A	-
$\boxtimes$	Turn Table	INNCO Systems	1060	-	N/A	-
$\boxtimes$	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
$\boxtimes$	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
Worst Case of Data Cable	KSD (EAD62377922)
Kind of Test Site	3 m semi anechoic chamber
Temperature	21.6°C
Relative Humidity	42.5 %
Test Date	January 28, 2020

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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)
30.339812	27.3	100.0	V	349.0	18.3	12.7	40.0
58.844200	22.5	100.0	٧	36.0	19.4	17.5	40.0
86.979000	28.1	191.9	Н	299.0	14.7	11.9	40.0
111.547600	25.9	100.0	٧	353.0	16.5	17.6	43.5
240.349000	32.4	175.0	Н	58.0	18.4	13.6	46.0
266.527200	32.6	125.1	Н	331.0	19.3	13.4	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
$\boxtimes$	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		-
$\boxtimes$	Turn table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
$\boxtimes$	Low Noise amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.04.2019
	Low Noise amplifier	TESTEK	TK-PA1840H	170033-L	1 year	03.11.2019
$\boxtimes$	Horn antenna	Schwarzbeck	BBHA 9120D	01836	1 year	07.19.2019
	Horn Antenna	Schwarzbeck	BBHA 9170	170 BBHA9170786 1 year		12.03.2019
$\boxtimes$	Software	Rohde & Schwarz	EMC32	-	-	-



# 4.3.2 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
Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
2 480 MHz
1 GHz to 18 GHz
Data Communication mode
KSD (EAD62377922)
3 m semi anechoic chamber
22.1°C
41.7%
February 03, 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)
1330.940000	47.7	217.4	V	103.0	-26.3	26.3	74.0
2014.610000	51.9	100.0	V	52.0	-25.2	22.1	74.0
2595.485000	55.8	349.8	V	47.0	-23.0	18.2	74.0
5986.625000	47.3	306.4	V	108.0	-14.7	26.7	74.0
10753.440000	49.3	231.4	٧	0.0	-2.9	24.7	74.0
14727.330000	49.1	100.0	٧	141.0	1.0	24.9	74.0

Frequency (MHz)	CAverage (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1330.940000	28.9	217.4	V	103.0	-26.3	25.1	54.0
2014.610000	37.4	100.0	V	52.0	-25.2	16.6	54.0
2595.485000	36.1	349.8	V	47.0	-23.0	17.9	54.0
5986.625000	30.3	306.4	V	108.0	-14.7	23.7	54.0
10753.440000	35.5	231.4	V	0.0	-2.9	18.5	54.0
14727.330000	36.5	100.0	V	141.0	1.0	17.5	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, Bluetooth and Model: LM-K300AM** 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-2002-FC008-P	February 18, 2020	Initial Release

End of report