TEST REPORT

EMI Test for FCC Certification / ISED of LM-K410WM Model

APPLICANT LG Electronics USA, Inc.

REPORT NO. HCT-EM-2002-FI003

DATE OF ISSUE February 25, 2020

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.



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



Tested by Ki-Min Lee	(signatore)	
Technical Manager Jeong-Hyun Choi	(sigrat re	



REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	February 25, 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	ZNFK410WM
IC	2703C-K410WM
Model Name	LM-K410WM
Series Model Name	LMK410WM, K410WM
Product Name	Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN, NFC
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) 2 496 MHz to 2 570 MHz (LTE B7) 699 MHz to 716 MHz (LTE B12) 777 MHz to 787 MHz (LTE B13) 704 MHz to 716 MHz (LTE B13) 704 MHz to 716 MHz (LTE B17) 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) 13.56 (NFC)
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) 2 516 MHz to 2 690 MHz (LTE B7) 729 MHz to 746 MHz (LTE B12) 746 MHz to 756 MHz (LTE B13) 734 MHz to 746 MHz (LTE B13) 734 MHz to 728 MHz (LTE B17) 717 MHz to 728 MHz (LTE B30) 2 110 MHz to 2 360 MHz (LTE B30) 2 110 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 462 MHz (WiFi 2.4 GHz) 13.56 (NFC)



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-K410WM	-	LG
Travel Adaptor	MCS-V02WR	-	SUNLIN
DATA Cable	EAD64746101	-	NINGBO BROAD
Earphone	EAB64468445	-	BUJEON
Micro SD Card	SAMSUNG EVO+ microSDXC CLASS10 UHS- I	-	SAMSUNG

1.3 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
FUT	USB Type C	Y	Y	(P) 1.0
EUT	Earphone	N/A	Ν	(D) 1.1

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
FUT	USB Type C	Ν	N/A	Υ	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		
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 accordance 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

This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd. F-TP22-03 (Rev. 02) Page 7 of 25



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	Clas	ss A	Clas	ss 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.



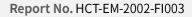
2.2 Measurement of Radiated Emission

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	
_	Automa P	N-1	Clas	s A	Cla	iss B	
Frequency (MHz)		Antenna Distance (m)		Average (dBµV/m)	Peak (dBµV/m)	Average (dBµV/m)	
Above 1 000	3		80	60	74	54	

Radiated Emission Limits



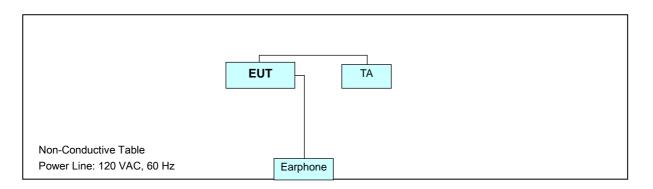


2.2.1 Frequency Range of Radiated Measurements

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
\square	Software	Rohde & Schwarz	EMC32	-	-	-

4.1.2 Operating Condition

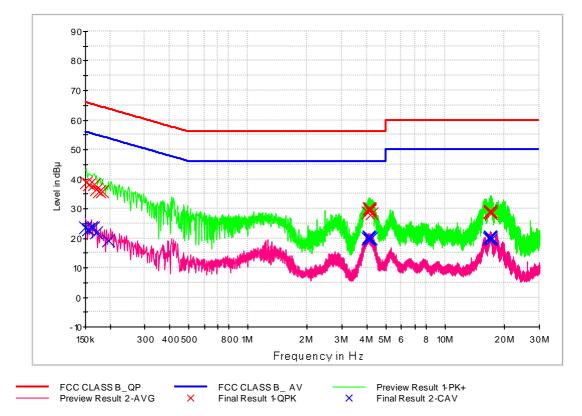
The test results of conducted emission at mains ports provide the following information:

	FCC CFR 47 PART 15 Subpart B Class B
Test Standard Used	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	FRONT CAMERA & MP3 mode
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 (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)
0.152000	38.9	9.000	L1	9.8	27.0	65.9
0.158000	38.3	9.000	L1	9.8	27.3	65.6
0.166000	38.0	9.000	L1	9.8	27.2	65.2
0.170000	36.5	9.000	L1	9.8	28.4	65.0
0.176000	35.6	9.000	L1	9.8	29.1	64.7
0.182000	35.8	9.000	L1	9.8	28.6	64.4
4.054000	28.7	9.000	L1	10.0	27.3	56.0
4.116000	30.0	9.000	L1	10.0	26.0	56.0
4.148000	29.9	9.000	L1	10.0	26.1	56.0
4.172000	29.8	9.000	L1	10.0	26.2	56.0
4.180000	29.2	9.000	L1	10.0	26.8	56.0
4.264000	28.4	9.000	L1	10.0	27.6	56.0
16.824000	28.8	9.000	L1	10.4	31.2	60.0
16.854000	28.6	9.000	L1	10.4	31.4	60.0
16.918000	29.1	9.000	L1	10.4	30.9	60.0
16.928000	29.0	9.000	L1	10.4	31.0	60.0
17.074000	29.0	9.000	L1	10.4	31.0	60.0
17.200000	28.4	9.000	L1	10.4	31.6	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)
0.150000	23.7	9.000	L1	9.8	32.3	56.0
0.156000	22.9	9.000	L1	9.8	32.8	55.7
0.160000	23.4	9.000	L1	9.8	32.0	55.5
0.164000	23.4	9.000	L1	9.8	31.8	55.3
0.170000	21.9	9.000	L1	9.8	33.0	55.0
0.196000	19.0	9.000	L1	9.8	34.7	53.8
4.054000	19.9	9.000	L1	10.0	26.1	46.0
4.086000	20.3	9.000	L1	10.0	25.7	46.0
4.114000	20.4	9.000	L1	10.0	25.6	46.0
4.146000	20.2	9.000	L1	10.0	25.8	46.0
4.180000	19.5	9.000	L1	10.0	26.5	46.0
4.216000	19.8	9.000	L1	10.0	26.2	46.0
16.734000	19.8	9.000	L1	10.4	30.2	50.0
16.824000	20.2	9.000	L1	10.4	29.8	50.0
16.854000	20.3	9.000	L1	10.4	29.7	50.0
16.918000	20.5	9.000	L1	10.4	29.5	50.0
17.074000	20.3	9.000	L1	10.4	29.7	50.0
17.200000	19.4	9.000	L1	10.4	30.6	50.0



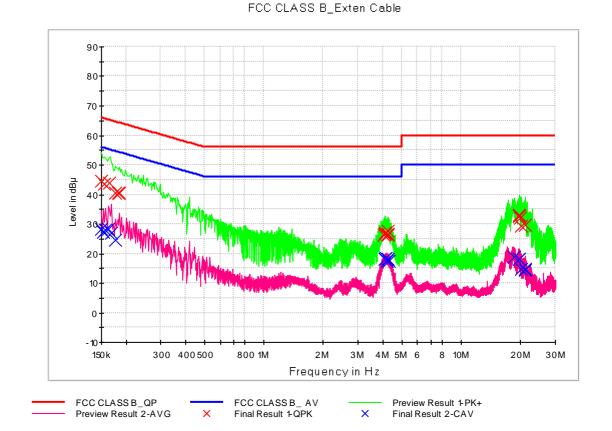


Figure 2: Conducted Emission (150 kHz to 30 MHz), Line (N)



QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	44.7	9.000	Ν	9.8	21.3	66.0
0.156000	43.5	9.000	Ν	9.8	22.1	65.7
0.164000	43.8	9.000	Ν	9.8	21.5	65.3
0.176000	40.4	9.000	Ν	9.8	24.2	64.7
0.182000	40.4	9.000	Ν	9.8	24.0	64.4
0.186000	40.6	9.000	Ν	9.8	23.6	64.2
4.062000	26.2	9.000	Ν	10.0	29.8	56.0
4.084000	26.6	9.000	Ν	10.0	29.4	56.0
4.110000	26.9	9.000	Ν	10.0	29.1	56.0
4.244000	26.2	9.000	Ν	10.0	29.8	56.0
4.248000	26.6	9.000	Ν	10.0	29.4	56.0
4.254000	27.5	9.000	Ν	10.0	28.5	56.0
19.686000	33.0	9.000	Ν	10.6	27.0	60.0
19.716000	32.7	9.000	Ν	10.6	27.3	60.0
19.792000	32.8	9.000	Ν	10.6	27.2	60.0
19.930000	31.9	9.000	Ν	10.6	28.1	60.0
20.224000	29.4	9.000	Ν	10.6	30.6	60.0
21.174000	29.6	9.000	Ν	10.7	30.4	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	28.3	9.000	Ν	9.8	27.7	56.0
0.154000	27.4	9.000	Ν	9.8	28.4	55.8
0.158000	28.1	9.000	Ν	9.8	27.5	55.6
0.162000	28.3	9.000	Ν	9.8	27.1	55.4
0.168000	26.8	9.000	Ν	9.8	28.3	55.1
0.176000	24.5	9.000	Ν	9.8	30.2	54.7
4.084000	18.0	9.000	Ν	10.0	28.0	46.0
4.110000	18.0	9.000	Ν	10.0	28.0	46.0
4.138000	18.3	9.000	Ν	10.0	27.7	46.0
4.184000	17.3	9.000	Ν	10.0	28.7	46.0
4.254000	18.1	9.000	Ν	10.0	27.9	46.0
4.302000	17.5	9.000	Ν	10.0	28.5	46.0
18.560000	18.8	9.000	Ν	10.6	31.2	50.0
19.582000	18.2	9.000	Ν	10.6	31.8	50.0
19.686000	18.1	9.000	Ν	10.6	31.9	50.0
20.224000	14.6	9.000	Ν	10.6	35.4	50.0
21.174000	14.7	9.000	Ν	10.7	35.3	50.0
21.206000	14.3	9.000	N	10.7	35.7	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	-
\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:

	FCC CFR 47 PART 15 Subpart B Class B
Used Test Standard	ICES-003 Issue 6 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	FRONT CAMERA & MP3 mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	24.5 °C
Relative Humidity	43.2 %
Test Date	February 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)
32.999600	19.1	117.8	۷	24.0	18.5	20.9	40.0
46.296000	18.9	100.0	V	35.0	19.5	21.1	40.0
78.306000	13.5	300.0	V	98.0	16.2	26.5	40.0
114.566800	20.7	174.9	V	173.0	16.8	22.8	43.5
164.397000	19.1	100.0	V	97.0	19.6	24.4	43.5
611.152400	27.8	175.0	н	190.0	27.6	18.2	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	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:

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	FRONT CAMERA & MP3 mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	25.1 °C
Relative Humidity	42.6 %
Test Date	February 19, 2020

NOTE. The measurement antenna aimed at the source of emission



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)
3407.455000	35.2	350.0	V	237.0	-20.7	38.8	74.0
4976.795000	38.8	175.4	V	339.0	-15.8	35.2	74.0
7379.685000	44.6	100.0	Н	187.0	-9.6	29.4	74.0
9659.475000	48.1	350.0	Н	333.0	-5.1	25.9	74.0
10191.745000	47.8	350.0	Н	0.0	-4.5	26.2	74.0
14670.915000	49.0	149.6	н	219.0	1.0	25.0	74.0

Frequency (MHz)	CAverage (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
3407.455000	22.5	350.0	V	237.0	-20.7	31.5	54.0
4976.795000	26.4	175.4	v	339.0	-15.8	27.6	54.0
7379.685000	31.7	100.0	Н	187.0	-9.6	22.3	54.0
9659.475000	35.2	350.0	Н	333.0	-5.1	18.8	54.0
10191.745000	35.2	350.0	Н	0.0	-4.5	18.8	54.0
14670.915000	36.2	149.6	Н	219.0	1.0	17.8	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 Bluetooth**, **WLAN, NFC and Model: LM-K410WM** complies with §15.107 and §15.109 of the FCC rules and ICES-003 Issue 6 of the IC 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-FI003-P	February 25, 2020	Initial Release

End of report