

TEST REPORT

EMI Test for FCC Certification of MR22GN Model

APPLICANT LG Electronics Inc.

REPORT NO. HCT-EM-2106-FC005

DATE OF ISSUE June 22, 2021

> Tested by Hyun-Jin Lim

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Accredited by KOLAS, Republic of KOREA

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TEST REPORT EMI Test for FCC Certification	REPORT NO. HCT-EM-2106-FC005 DATE OF ISSUE June 22, 2021 FCC ID. BEJMR22GN
Applicant	LG Electronics Inc. 222, LG-ro, Jinwi-myeon, Pyeontaek-si, Gyeonggi-do, 17709, KOREA
Product Name Model Name	Magic Remote MR22GN
Date of Test	June 08, 2021 to June 09, 2021
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. This test results were applied only to the test methods required by the standard. This laboratory is not accredited for the test results marked *.

The contents marked ** is information provided by the customer.



REVISION HISTORY

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

Revision No.	Date of Issue	Description		
0	June 22, 2021	Initial Release		

The above Test Report is the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA. (KOLAS Accreditation No. KT197)

If this report is required to confirmation of authenticity, please contact to www.hct.co.kr



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1. GENERAL INFORMATION

1.1 Description of EUT

The EUT is Magic Remote.

FCC ID	BEJMR22GN
Model Name	MR22GN
Product Name	Magic Remote
Frequency Range	Bluetooth: 2 402 MHz to 2 480 MHz NFC: 13.56 MHz
Power Supply	Normal voltage: DC 3.0 V Extreme lower voltage: DC 2.4 V Extreme upper voltage: DC 3.2 V
Manufacturer	LG Electronics Inc.
	 Hansung Electronics Co., LTD 1) 49-29, Cheomdangieop 4-ro, Sandong-myeon, Gumi-si, Gyeongsangbuk-do, Korea 2) Kawasan Industri Batik Lippo Cikarang JI.Palemn 1Block Ds-6, Cibatu, Cikarang Selatan, Bekasi, Jawa Barat, Indonesia
Factory	 OHSUNG Electronics CO., LTD. 1) 335-4, Sanho-daero, Gumi-si, Gyeongsangbuk-do, KOREA 2) No.188 Tunpu South Road, Qiushe Economic Development Zone, Tongli Town, Wujiang City, Jiangsu Province, China 3) JI. Selayar Blok D7 Kawasan Industri MM 2100, Mekarwangi, Cikarang Barat 17845 Jawa Barat, Indonesia 4) CERRADA CENTINELA 1719, PARQUE INDUSTRIAL CACHANILLA, MEXICALI, BAJA CALIFORNIA, MEXICO 21394

NOTE. This product is a wireless remote controller, it does not have a port to connect peripherals and has a built-in battery. (DC 3.0 V)

1.2 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Serial Number	Manufacturer	
Magic Remote	MR22GN	-	LG Electronics	
Smart Phone	Galaxy 20 Ultra	-	SAMSUNG	



1.3 Cable Description

Product	Port	Power Cord	I/O Cable	Length
Name		Shielded (Y/N)	Shielded (Y/N)	(m)
EUT	-	N/A	N/A	N/A

"(D)" Data Cable, "(P)" 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	-	N/A	N/A	N/A	



1.5 Test Facility

Test site is located at 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Rep. of 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 This testing laboratories are accredited and accordance with the recognized international Standard ISO/IEC 17025:2017. (KOLAS, Accreditation No. KT197)

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.

Test Item	Test Site (Chamber)	Expanded Uncertainty	
Radiated Emission (30 MHz to 1 GHz)	3 m Semi Anechoic Chamber #1	4.9 dB	
Radiated Emission (1 GHz to 18 GHz)	3 m Semi Anechoic Chamber #1	4.6 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 $\,\Omega$ / 50 $\,\mu\text{H}$ 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]

FCC Part15 Subpart B					
Frequency	Class A		Class B		
Frequency (₩z)	Quasi-Peak (dBµV)	Average (dBµV)	Quasi-Peak (dBµV)	Average (dBμV)	
0.15 to 0.5	79	66	66 to 56*	56 to 46*	
0.5 to 5	73	60	56	46	
5 to 30	73	60	60	50	

FCC Davit 1 F Cula

[*] 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 (Mb2)	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	iss B
Frequency (Mb)	Antenna D (m)		Реаk (dBµV/m)	Average (dBµV /m)	Реаk (dBµV /m)	Average (dBµV /m)
Above 1 000	3		80	60	74	54

[Radiated Emission Limits]

FCC Part15 Subpart B



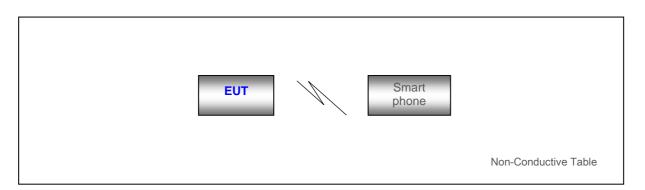
2.2.1 Frequency Range of Radiated Measurements

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

FCC Part15 Subpart B

Highest frequency generated or used in the device or on which the device operates or tunes (\\\\tag{k})	Upper frequency of measurement range (Mtz)
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 (Not Applicable)

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

Operating Modes: Not applicable

NOTE. This product is a wireless remote controller, it does not have a port to connect peripherals and has a built-in battery. (DC 3.0 V)

3.2 Radiated Emission

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

Operating Modes: IDLE (Bluetooth & NFC)



4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission (Not Applicable)

4.1.1 Measuring instruments

Туре	Model Name	Manufacturer	Serial Number	Calibration Cycle	Calibration Date
EMI test receiver	ESR7	Rohde & Schwarz	101910	1 year	09.16.2020
LISN	ENV216	Rohde & Schwarz	102245	1 year	09.04.2020
LISN	ENV216	Rohde & Schwarz	100073	1 year	04.07.2021
Software	EMC32	Rohde & Schwarz	-	-	-

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	0.15 MHz to 30 MHz		
Detector	Quasi-Peak, CISPR-Average		
Bandwidth	9 kHz (6 dB)		
Test Site	EMI Shield Room		
Temperature	- °C		
Relative Humidity	- %		
Test Date	-		

-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

Not applicable



4.2 Radiated Emission Below 1 GHz

4.2.1 Measuring instruments

	Туре	Model Name	Manufacturer	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI test receiver	ESU40	Rohde & Schwarz	100524	1 year	05.10.2021
\square	Bilog antenna	VULB9168	Schwarzbeck	255	2 year	03.15.2021
	Antenna master	MA4640-XP-ET	INNCO SYSTEM	-	-	-
	Antenna master controller	CO3000	INNCO SYSTEM	CO3000/870 /35990515/L	-	-
	Turn Table	1060	INNCO SYSTEM	-	-	-
	Turn Table controller	CO2000	INNCO SYSTEM	CO2000/095 /7590304/L	-	-
\boxtimes	Software	EMC32	Rohde & Schwarz	-	-	-

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)			
Test Site	3 m Semi Anechoic Chamber #1			
Temperature	24.2 °C			
Relative Humidity	47.0 %			
Test Date	June 08, 2021			

-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



4.2.3 Measuring Data

IDLE (Bluetooth & NFC)

Frequency (Mb2)	Quasi Peak (dBµV/m)	Antenna Height (㎝)	Pol. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV /m)
42.8972	17.4	174.8	V	351.0	19.5	22.6	40.0
199.1740	27.5	100.0	V	98.0	16.9	16.0	43.5
214.8326	22.7	117.9	V	303.0	17.4	20.8	43.5
277.6093	23.6	116.7	V	95.0	19.7	22.4	46.0
484.4431	26.0	100.0	v	82.0	25.0	20.0	46.0
643.2293	27.8	100.0	н	30.0	28.0	18.2	46.0



4.3 Radiated Emission Above 1 GHz

4.3.1 Measuring instruments

	Туре	Model Name	Manufacturer	Serial Number	Calibration Cycle	Calibration Date
\boxtimes	EMI test receiver	ESU40	Rohde & Schwarz	100524	1 year	05.10.2021
\boxtimes	Antenna master	MA4640-XP-ET	INNCO SYSTEM	-	-	-
	Antenna master controller	CO3000	INNCO SYSTEM	CO3000/870/ 35990515/L	-	-
\boxtimes	Turn table	1060	INNCO SYSTEM	-	-	-
	Turn table controller	CO2000	INNCO SYSTEM	CO2000/095/ 7590304/L	-	-
\boxtimes	Horn antenna	BBHA 9120D	Schwarzbeck	01836	1 year	07.23.2020
\boxtimes	Low noise amplifier	TK-PA18H	TESTEK	170034-L	1 year	03.02.2021
	Horn Antenna	BBHA 9170	Schwarzbeck	BBHA 9170 #786	1 year	11.18.2020
	Power Amplifier	TK-PA1840H	TESTEK	170030-L	1 year	03.09.2021
\boxtimes	Software	EMC32	Rohde & Schwarz	-	-	-

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			
Test Site	3 m Semi Anechoic Chamber #1			
Temperature	23.1 ℃			
Relative Humidity	45.8 %			
Test Date	June 09, 2021			

-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



4.3.3 Measuring Data

IDLE (Bluetooth & NFC)

Frequency (MHz)	Peak (dBµV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1597.9350	36.9	125.7	V	297.0	-26.3	37.1	74.0
5647.0600	37.4	100.0	V	63.0	-15.6	36.6	74.0
7363.7300	42.1	149.9	V	252.0	-11.0	31.9	74.0
9511.2150	45.0	110.6	V	12.0	-8.3	29.0	74.0
14544.3900	49.1	123.7	V	173.0	0.4	24.9	74.0
17982.1761	55.0	100.0	н	77.0	9.5	19.0	74.0

Frequency (MHz)	CAverage (dBµV/m)	Antenna Height (៣)	Pol. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1597.9350	17.9	125.7	V	297.0	-26.3	36.1	54.0
5647.0600	25.1	100.0	V	63.0	-15.6	28.9	54.0
7363.7300	29.2	149.9	V	252.0	-11.0	24.8	54.0
9511.2150	31.8	110.6	V	12.0	-8.3	22.2	54.0
14544.3900	35.7	123.7	V	173.0	0.4	18.3	54.0
17982.1761	42.7	100.0	Н	77.0	9.5	11.4	54.0





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5. CONCLUSION

The data collected shows that the **Product Name: Magic Remote, Model Name: MR22GN** 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-2106-FC005-P	June 22, 2021	Initial Release

End of report