

TEST REPORT

FCC SAR Exclusion Test for MR26GA
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-SR-2506-FC018-R1

DATE OF ISSUE
July 2, 2025

Tested by
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Accredited by KOLAS, Republic of KOREA

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TEST REPORT

FCC BT LE Test
for MR26GA

REPORT NO.

HCT-SR-2506-FC018-R1

DATE OF ISSUE

July 02, 2025

Applicant

LG Electronics Inc.

222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do 17709, Republic of Korea

EUT Type
Model Name

Remote Control
MR26GA

FCC ID

2B03LMR26GA

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing Lab
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si,
Gyeonggi-do, Republic of Korea)

Maximum Output Power

8 dBm (EIRP)

Modulation type

GFSK

FCC Classification

Digital Transmission System (DTS)

FCC Rule

47CFR § 2.1093

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.

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	June 25, 2025	Initial Release
1	July 02, 2025	Revised Page 6

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

This test report provides test result(s) under the scope accredited by the Korea Laboratory Accreditation Scheme (KOLAS), which signed the ILAC-MRA.

(KOLAS (KS Q ISO/IEC 17025) Accreditation No. KT197)

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1. EUT DESCRIPTION

Model Name	MR26GA
EUT Type	Remote Control
Power Supply	DC 3.0 V
Frequency Range	2 402 MHz – 2 480 MHz
Max. RF Output Power	Conducted power 4 dBm +/- 1.49 dB + peak. Antenna gain 2.51 dBi = 8 dBm (EIRP)
Modulation Type	GFSK
Bluetooth Version	4.2
Number of Channels	40 Channels
Antenna Specification	Antenna type: PCB Antenna Peak Gain: 2.51 dBi
Manufacturer	222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do 17709, Republic of Korea

2. TEST METHODOLOGY

2.1 FCC

Limb SAR and Body/Face SAR Test Exclusions Applied _Bluetooth 4.2 LE

Since this product is a remote control product, it is used by most users in the hand, so Limb SAR standard is applied. In addition, since this product is capable of voice recognition by the user, an exception evaluation is applied at a distance of 5 mm from the Body/Face SAR.

According to the FCC KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

$$\frac{\text{Max Power of Channel(mW)}}{\text{Test Separation Distance (mm)}} * \sqrt{\text{Frequency(GHz)}} \leq 3.0 \text{ For 1g SAR, 7.5 for 10g SAR}$$

where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Calculation Result:

Tx frequency range: 2 402 MHz ~ 2 480 MHz

Limb SAR Consideration Min. test separation distance: 5 mm

Body/Face SAR Consideration Min. test separation distance: 5 mm

Maximum Output Power: 5.49 dBm (4 mW)

The Highest RF channel frequency: 2 480 MHz

For Body/Face SAR Exclusion

Mode	Frequency	Maximum Allowed Power	Separation Distance	≤ 3.0 for 1 g SAR
	[MHz]	[mW]	[mm]	
Bluetooth 4.2 LE	2 480	4	5	1.3

For Limb SAR exclusion

Mode	Frequency	Maximum Allowed Power	Separation Distance	≤ 7.5 for 10 g SAR
	[MHz]	[mW]	[mm]	
Bluetooth 4.2 LE	2 480	4	5	1.3

Based on the maximum output power of Bluetooth 4.2 LE and antenna to use separation distance, Bluetooth 4.2 LE Limb SAR and Body/Face SAR were not required.