



TEST REPORT

FCC/ISED MPE Test for LGSBT12

Certification

APPLICANT
LG Electronics Inc.

REPORT NO. HCT-RF-2106-FI012

DATE OF ISSUE June 11, 2021

Tested byJin Gwan Lee

Technical Manager Jong Seok Lee

MASS

And

Accredited by KOLAS, Republic of KOREA

HCT CO., LTD.

BongJai Huh / CEO



HCT Co., Ltd.

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Additional Model

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Applicant	LG Electronics Inc. 222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea
Eut Type Model Name	RF Module LGSBT12
FCC ID	BEJLGSBT12
Date of Receipt	April 09, 2021
Frequency range	2 402 MHz – 2 480 MHz (Bluetooth)
	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.

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REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	June 11, 2021	Initial Release

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance

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

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.(HCT Accreditation No.: KT197)

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^{*} The report shall not be reproduced except in full(only partly) without approval of the laboratory.



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RF Exposure Statement

1. Limit

According to § 1.1310, § 2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magneticfield Strength (A/m)	Powerdensity (mW/cm²)	Averaging time (minutes)
0.3 -				
1.34	614	1.63	*(100)	30
1.34 - 30	824/f	2.19/f	*(180/ f²)	30
30 - 300	27.5	0.073	0.2	30
300 - 1500			f/1500	30
1500 -			1.0	30
100.000				

F = frequency in MHz

2. Maximum Permissible Exposure Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = Power input to antenna

G = Power gain to the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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^{* =} Plane-wave equivalent power density

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3. RESULTS

3-1. BT LE

Average output Power at antenna input terminal	8.00	dBm
Average output Power at antenna input terminal	6.31	mW
Prediction distance	20.00	cm
Prediction frequency	2402 – 2480	MHz
Antenna Gain(typical)	1.500	dBi
Antenna Gain(numeric)	1.413	-
Power density at prediction frequency(S)	0.0018	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

2.1091

9.50	(dBm)
7.35	(dBm)
0.005	(W)
3.00	(W)
27.42	(dB)
	7.35 0.005 3.00

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