

TEST REPORT

FCC MPE Test for WL1NB6

Class II Permissive Change

APPLICANT

LG Electronics

REPORT NO.

HCT-RF-1911-FI016

DATE OF ISSUE

November 15, 2019

HCT Co., Ltd.

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FCC MPE Test for
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Other Model

-

Applicant

LG Electronics

222, LG-ro Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Republic of

**Eut Type
Model Name**

Wireless Adapter Card
WL1NB6

FCC ID

BEJ9QK-DMWL1NB6

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.

Tested by
Jeong Ho Kim

(signature)

Technical Manager
Seul Ki Lee

(signature)

HCT CO., LTD.

Soo Chan Lee

SooChan Lee

/ CEO

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	November 15, 2019	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.

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)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3 - 1.34.....	614	1.63	*(100)	30
1.34 - 30.....	824/f	2.19/f	*(180/ f ²)	30
30 - 300.....	27.5	0.073	0.2	30
300 - 1500.....			f/1500	30
1500 - 100.000.....			1.0	30

F = frequency in MHz

* = Plane-wave equivalent power density

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

3. RESULTS

3-1. UNII 3 Band

Average output Power at antenna input terminal	-2.014	dBm
Average output Power at antenna input terminal	0.629	mW
Prediction distance	20.00	cm
Prediction frequency	5 730.0 ~ 5 846.0	MHz
Antenna Gain(typical)	1.300	dBi
Antenna Gain(numeric)	1.349	-
Power density at prediction frequency(S)	0.0002	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

2.1091

EIRP	-0.71 (dBm)
ERP	-2.86 (dBm)
ERP	0.001 (W)
ERP Limit	3.00 (W)
MARGIN	37.63 (dB)