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FCC MPE REPORT

FCC Certification

Applicant Name: LG Electronics USA

Address:

1000 Sylvan Avenue Englewood Cliffs, NJ 07632 United States

Date of Issue:

September 15, 2017 Test Site/Location:

HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majang-myeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-R-1709-E008

HCT FRN: 0005866421

FCC ID

: BEJID7FF

APPLICANT

: LG Electronics USA

Model:

ID7FF

EUT Type:

Faceplate RADIO ASM-RECEIVER

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by : Kyung Soo Kang Engineer of Telecommunication testing center Approved by: Jong Seok Lee

Manager of Telecommunication testing center

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1709-E008	September 15, 2017	- First Approval Report



RF Exposure Statement

1. LIMITS

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

(B) Limits for General Population/Uncontrolled Exposures

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

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 of 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



3. RESULTS

BT

Max Peak output Power at antenna input terminal	4.529	dBm
Max Peak output Power at antenna input terminal	2.837	mW
Prediction distance	20.000	cm
Prediction frequency	2480.000	MHz
Antenna Gain(typical)	2.300	dBi
Antenna Gain(numeric)	1.698	-
Power density at prediction frequency(S)	0.000959	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²

WLAN 2.4 GHz

Max Peak output Power at antenna input terminal	24.370	dBm
Max Peak output Power at antenna input terminal	273.527	mW
Prediction distance	20.000	cm
Prediction frequency	2412.000	MHz
Antenna Gain(typical)	1.100	dBi
Antenna Gain(numeric)	1.288	-
Power density at prediction frequency(S)	0.070102	mW/cm2
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm2

WLAN 5 GHz (UNII 1)

Max Peak output Power at antenna input terminal	7.000	dBm
Max Peak output Power at antenna input terminal	5.012	mW
Prediction distance	20.000	cm
Prediction frequency	5190.000	MHz
Antenna Gain(typical)	3.400	dBi
Antenna Gain(numeric)	2.188	-
Power density at prediction frequency(S)	0.002181	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²



WLAN 5 GHz (UNII 3)

WE WY S CHE (CHIEFS)		
Max Peak output Power at antenna input terminal	10.660	dBm
Max Peak output Power at antenna input terminal	11.641	mW
Prediction distance	20.000	cm
Prediction frequency	5785.000	MHz
Antenna Gain(typical)	3.900	dBi
Antenna Gain(numeric)	2.455	-
Power density at prediction frequency(S)	0.005685	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²