Spot Check Verification

1. Customer

   • Name : LG Electronics USA

   • Address : 1000 Sylvan Avenue, Englewood Cliffs, New Jersey, United States, 07632

2. Product Name / Model Name : Telematics / TLVHE4IU-E
   FCC ID : BEJTLVHE4IU-E

3. Date of Test : 2019.08.13 ~ 2019.08.14

Affirmation	Tested by Name : JaeHyeok Bang (Signature)	Reviewed by Name : Geunki Son (Signature)

Table of Contents

1. Introduction

1.1 Reference EUT Description

Reference FCC ID: BEJTLVHW3IU-E

Equipment Class	FCC Part/ RSS Std.	Technology	Frequency range(MHz)	Note
TNB	Part 27	LTE	2500 ~ 2570	-

The applicant takes full responsibility that the test data as referenced in section 4 represents compliance for FCC ID: BEJTLVHW34U-E

2. Explain the Differences

FCC ID: BEJTLVHE4IU-E is same the internal printed circuit board with FCC ID: BEJTLVHW3IU-E
The separate FCC ID differ only in the population of components for the purposes of adding an Ethernet port.

3. Spot Check Verification Data

3.1 Test results

Radiated output power (EIRP)

Equipment Class	FCC Part	Band	Channel bandwidth (MHz)	Tx Freq. (MHz)	RB Size/ Offset	Reference FCC ID: BEJTLVHW3IU-E		FCC ID: BEJTLVHE4IU-E		Deviation (dB)	Limit (dBm)
						Test Mode	Result (dBm)	Test Mode	Result (dBm)		
PCE	27.50(h.2)	7	10	2565.0	1/0	QPSK	21.02	QPSK	19.88	1.14	33.01

Undesirable Emissions

Equipment Class	FCC Part	Band	Channel bandwidth (MHz)	Tx Freq. (MHz)	RB Size/ Offset	Reference FCC ID: BEJTLVHW3IU-E			FCC ID: BEJTLVHE4IU-E			Deviation (dB)	Limit (dBm)
						Test Mode	Frequency (MHz)	Result (dBm)	Test Mode	Frequency (MHz)	Result (dBm)		
PCE	27.53(m)	7	20	2510.0	1/0	QPSK	5002.20	-28.02	QPSK	5002.20	-30.90	2.88	-25.00

Note1: The spot check were performed based on worst-case results reported in the original FCC report.
The spot check test results are within 3dB and two products shows a good correlation. It also complies with the FCC limit.

3.2 Test Equipment List

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	19/06/26	20/06/26	MY46471251
Multimeter	FLUKE	17B+	18/12/18	19/12/18	36390701WS
Radio Communication Analyzer	Anritsu	MT8820C	19/06/26	20/06/26	6201274519
Thermohygrometer	BODYCOM	BJ5478	18/12/27	19/12/27	120612-2
Loop Antenna	Schwarzbeck	FMZB1513	18/01/30	20/01/30	1513-128
Bilog Antenna	Schwarzbeck	VULB 9160	18/07/13	20/07/13	3359
Dipole Antenna	Schwarzbeck	UHA9105	18/04/13	20/04/13	2262
HORN ANT	ETS	3117	18/05/10	20/05/10	00140394
HORN ANT	A.H.Systems	SAS-574	19/04/23	21/04/23	155
PreAmplifier	H.P	8447D	18/12/18	19/12/18	2944A07774
PreAmplifier	Agilent	8449B	19/06/27	20/06/27	3008A02108
High-pass filter	Wainwright	WHKX12-2580-3000-18000-80SS	19/06/24	20/06/24	3
Cable	DTNC	Cable	19/01/16	20/01/16	M-01
Cable	DTNC	Cable	19/01/16	20/01/16	M-02
Cable	Junkosha	MWX315	19/01/16	20/01/16	M-05
Cable	Junkosha	MWX221	19/01/16	20/01/16	M-06

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.
Note2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.

4. Reference Section

Reference FCC ID: BEJTLVHM3IU-E

Equipment Class	FCC Part/ RSS Std.	Technology	Frequency range(MHz)	Exhibit type	Report title	Reference Sections
PCE	Part27	LTE	2500 ~ 2570	Original Grant	TNB	All