

EMI CERTIFICATION REPORT

Applicant:

LG Electronics MobileComm U.S.A., Inc.
1000 Sylvan Avenue, Englewood Cliffs NJ 07632

Date of Receipt: June 12, 2014

Date of Issue: June 26, 2014

Test Report No. HCT-E-1406-F052

HCT FRN: 0005866421

FCC ID:

ZNFV480

Rule Part(s) / Standard(s) : FCC CFR 47 PART 15 Subpart B Class B
FCC Classification : JBP (Part 15 B – Class B Computing Device Peripheral)
EUT Type : 2.4/5 GHz BT/WiFi Tablet
Model Name : LG-V480
Additional Model Name : LGV480, V480
Test Port : USB / Earphone Port
Date of Test : June 15, 2014 - June 16, 2014

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003. (See Test Report if any modifications were made for compliance)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT certifies that no party to application has been denial the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

Tested By



Gyeong-Seon Kim
Test Engineer
EMC Team
Certification Division

Reviewed By



Sang-Jun Lee
Technical Manager
EMC Team
Certification Division

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DOCUMENT HISTORY

The revision history for this document is shown in table.

Version	Date	Description
HCT-E-1406-F052	June 26, 2014	Initial Release



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ATTACHMENT: TEST SETUP PHOTOGRAPHS



1. GENERAL INFORMATION

1.1 Description of EUT

Equipment Under Test is manufactured by **LG Electronics MobileComm U.S.A., Inc.**
Its basic purpose is used for communications.

Model	LG-V480
FCC ID	ZNFV480
Additional Model	LGV480, V480
EUT Type	2.4/5 GHz BT/WiFi Tablet
TX Frequency	2 402 MHz to 2 480 MHz (Bluetooth Ver3.0, Ver4.0) 2 412 MHz to 2 462 MHz (WLAN 2.4 GHz) 5 180 MHz to 5 240 MHz (WLAN 5 GHz(UNII 1)_BW 20) 5 260 MHz to 5 320 MHz (WLAN 5 GHz(UNII 2)_BW 20) 5 500 MHz to 5 700 MHz (WLAN 5 GHz(UNII 3)_BW 20) 5 745 MHz to 5 825 MHz (WLAN 5 GHz(UNII 4)_BW 20) 5 190 MHz to 5 230 MHz (WLAN 5 GHz(UNII 1)_BW 40) 5 270 MHz to 5 310 MHz (WLAN 5 GHz(UNII 2)_BW 40) 5 510 MHz to 5 670 MHz (WLAN 5 GHz(UNII 3)_BW 40) 5 755 MHz to 5 795 MHz (WLAN 5 GHz(UNII 4)_BW 40)
RX Frequency	2 402 MHz to 2 480 MHz (Bluetooth Ver4.0) 2 412 MHz to 2 462 MHz (WLAN 2.4 GHz) 5 180 MHz to 5 240 MHz (WLAN 5 GHz(UNII 1)_BW 20) 5 260 MHz to 5 320 MHz (WLAN 5 GHz(UNII 2)_BW 20) 5 500 MHz to 5 700 MHz (WLAN 5 GHz(UNII 3)_BW 20) 5 745 MHz to 5 825 MHz (WLAN 5 GHz(UNII 4)_BW 20) 5 190 MHz to 5 230 MHz (WLAN 5 GHz(UNII 1)_BW 40) 5 270 MHz to 5 310 MHz (WLAN 5 GHz(UNII 2)_BW 40) 5 510 MHz to 5 670 MHz (WLAN 5 GHz(UNII 3)_BW 40) 5 755 MHz to 5 795 MHz (WLAN 5 GHz(UNII 4)_BW 40)

1.2 Related Submittal(s) / Grant(s)

Original submittal only.



1.3 Test Facility

Test site is located at 74, SEOICHEON-RO, 578BEON-GIL, MAJANG-MYEON, ICHEON-SI, GYEONGGI-DO, SOUTH KOREA. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2003.

Measurement Facilities	Reg. No.
Radiated Field strength measurement facility (3 m)	90661 (February 28, 2014)
Radiated Field strength measurement facility (10 m)	90661 (February 28, 2014)



1.4 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Manufacturer	FCC ID / DoC	Connected To
EUT	LG-V480	LG	ZNFV480	Notebook PC, Earphone
USB cable	EAD62329704	KSD	-	EUT, Notebook PC
Earphone	EAB62729016	I-SOUND	-	EUT
Notebook PC	ProBook6560b	HP	DoC	Notebook PC adaptor
Notebook PC adaptor	PPP009D	DELTA Electronics (JIANGSU)LTD	-	Notebook PC
Gateway	MV440	Axesstel	PH7MV440	Notebook PC, Adaptor
Serial mouse	Serial 2 button mouse	Radio shack	FSUGMZE3	Notebook PC
Adaptor	DA-60M12	Yang Ming Industrial	-	Gateway
RJ45 cable	-	-	-	Notebook PC, Gateway
Micro SD Card (8 GB)	-	SanDisk	-	EUT

※NOTE: This tablet device does not contain the minimum number of ports required for personal computer testing per ANSI C63.4, but the EUT is attached to a computer through its only available port, which represents worst case emissions. All other aspects of ANSI C63.4 testing requirements were maintained.



1.5 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	Micro USB	Y	Y	(P,D)1.2
	Earphone	N/A	Y	(D)1.2
Notebook PC	RJ 45	N/A	N	(D)1.5
	Serial (Mouse)	N/A	Y	(D)1.8
	DC in	N	N/A	(P)1.8
Gateway	DC in	N	N/A	(P)1.8

* The marked "(D)" means the data cable and "(P)" means the power cable.

1.6 Noise Suppression Parts on Cable. (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	Micro USB	N	N/A	Y	Both End
	Earphone	N	N/A	Y	EUT End
Notebook PC	RJ 45	N	N/A	N	N/A
	Serial (Mouse)	N	N/A	Y	Notebook PC End



2. DESCRIPTION OF TEST

2.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2003, Clause 7

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).
If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).
Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.
- c. The frequency range from 150 kHz to 30 MHz was searched.

[Conducted Emission Limits]

Frequency (MHz)	Resolution Bandwidth	Quasi-Peak(dB μ V)	Average(dB μ V)
0.15 to 0.5	9 kHz	66 to 56*	56 to 46*
0.5 to 5	9 kHz	56	46
5 to 30	9 kHz	60	50

**Decreases with the logarithm of the frequency.*



2.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2003, Clause 8

- a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a shield room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- g. The antenna height scans apply for both horizontal and vertical polarizations, except that for vertical polarization, the minimum height of the center of the antenna shall be increased so that the lowest point of the bottom of the lowest antenna element clears the site reference ground plane by at least 25 cm. (below 1 GHz)

[Radiated Emission Limits]

Frequency (MHz)	Antenna Distance (m)	Field Strength ($\mu V/m$)	Quasi-Peak (dB $\mu V/m$)
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Peak (dB $\mu V/m$)	Average (dB $\mu V/m$)
Above 1 000	3	74	54

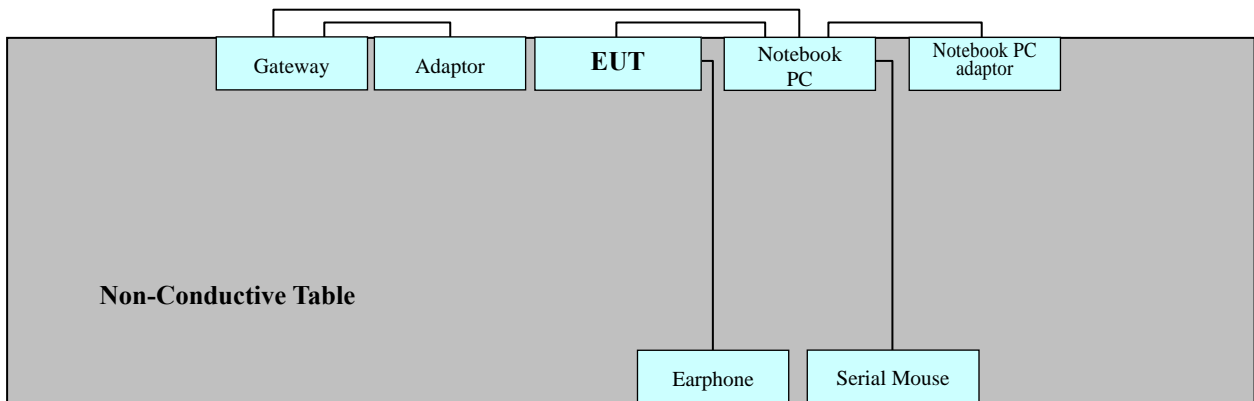


2.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

2.3 Configuration of Tested System



Power Line: 120 VAC, 60 Hz



3. PRELIMINARY TEST

3.1 Conducted Emission Test

It was tested Data Communication mode, after connecting all peripheral devices.

Operation Mode: Data Communication mode

3.2 Radiated Emission Test

It was tested Data Communication mode, after connecting all peripheral devices.

Operation Mode: Data Communication mode



4. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission Test

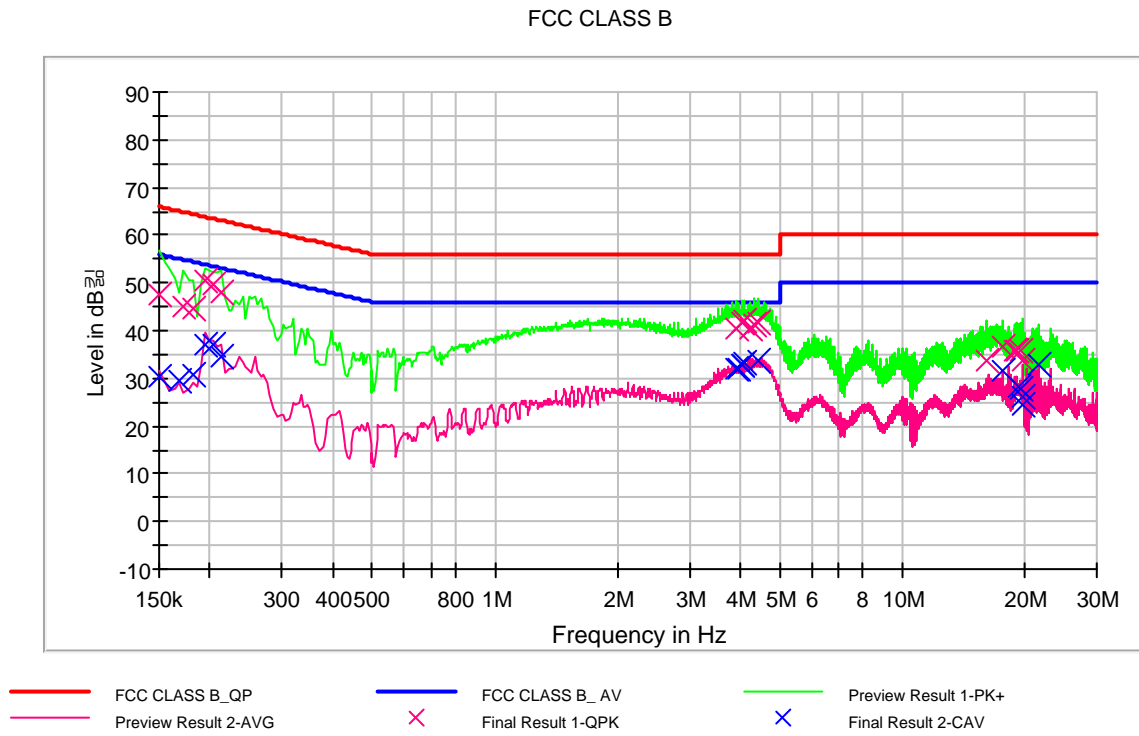
The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

Limit Apply to	: FCC PART 15 Subpart B Class B
Detector	: Quasi-Peak, CISPR-Average
6 dB Bandwidth	: 9 kHz
Operation Mode	: Data Communication mode
Temperature	: 24.0°C
Relative Humidity	: 46.4 %
Test Date	: June 15, 2014

※ NOTE: Refer to page 13 to page 18 for test data.



Figure 5: Spectral Diagrams, Conducted Emission, Phase (L1)



※ Calculation Formula:

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage= Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage



QuasiPeak Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	47.4	9.000	L1	9.7	18.6	66.0
0.172500	44.9	9.000	L1	9.7	19.9	64.8
0.181500	44.6	9.000	L1	9.7	19.8	64.4
0.195000	50.5	9.000	L1	9.7	13.3	63.8
0.204000	49.5	9.000	L1	9.7	13.9	63.4
0.213000	47.8	9.000	L1	9.7	15.3	63.1
3.888500	40.6	9.000	L1	10.0	15.4	56.0
4.028000	41.5	9.000	L1	10.1	14.5	56.0
4.100000	42.0	9.000	L1	10.1	14.0	56.0
4.244000	40.3	9.000	L1	10.1	15.7	56.0
4.311500	41.2	9.000	L1	10.1	14.8	56.0
4.451000	41.8	9.000	L1	10.1	14.2	56.0
16.016000	33.7	9.000	L1	10.7	26.3	60.0
17.694500	36.8	9.000	L1	10.8	23.2	60.0
18.918500	35.9	9.000	L1	10.9	24.1	60.0
19.152500	35.7	9.000	L1	10.9	24.3	60.0
19.404500	35.7	9.000	L1	10.9	24.3	60.0
19.791500	33.7	9.000	L1	10.9	26.3	60.0

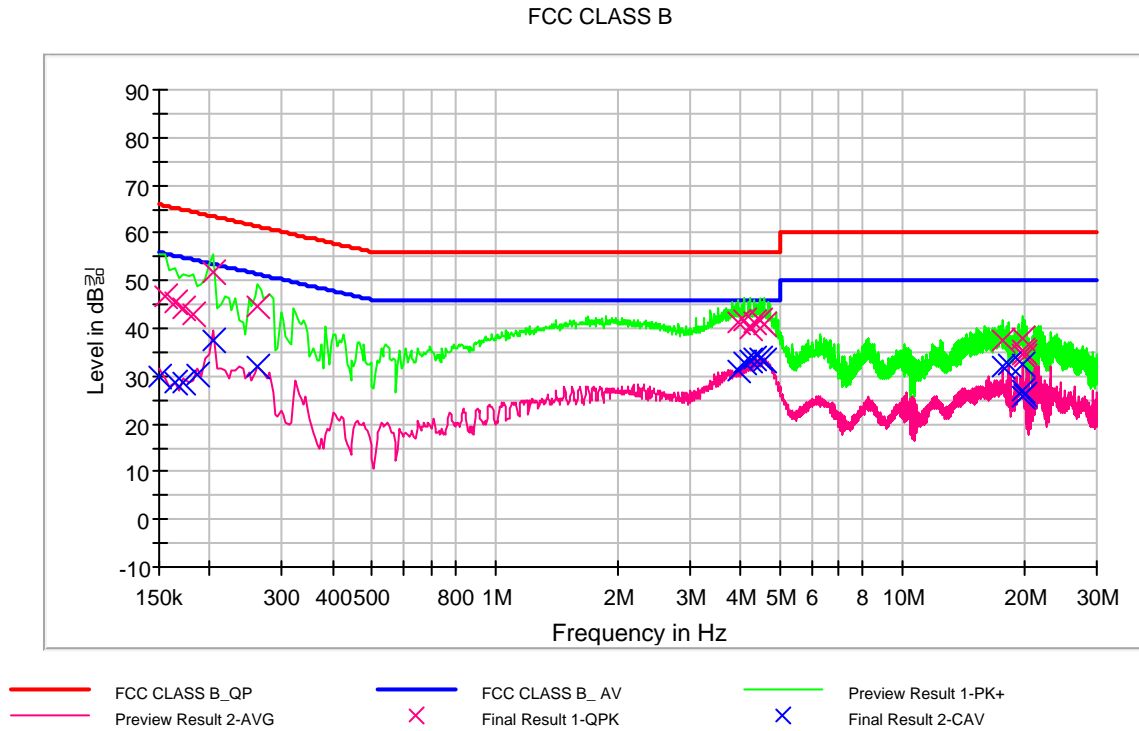


CAverage Final Result

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	30.4	9.000	L1	9.7	25.6	56.0
0.168000	29.6	9.000	L1	9.7	25.5	55.1
0.181500	30.6	9.000	L1	9.7	23.8	54.4
0.195000	37.0	9.000	L1	9.7	16.8	53.8
0.204000	36.9	9.000	L1	9.7	16.5	53.4
0.213000	34.5	9.000	L1	9.7	18.6	53.1
3.888500	32.0	9.000	L1	10.0	14.0	46.0
3.974000	32.2	9.000	L1	10.0	13.8	46.0
4.028000	32.8	9.000	L1	10.1	13.2	46.0
4.037000	32.8	9.000	L1	10.1	13.2	46.0
4.100000	33.4	9.000	L1	10.1	12.6	46.0
4.451000	33.6	9.000	L1	10.1	12.4	46.0
17.694500	31.6	9.000	L1	10.8	18.4	50.0
19.269500	28.2	9.000	L1	10.9	21.8	50.0
19.404500	27.8	9.000	L1	10.9	22.2	50.0
19.742000	26.1	9.000	L1	10.9	23.9	50.0
19.791500	24.6	9.000	L1	10.9	25.4	50.0
21.663500	32.9	9.000	L1	11.0	17.1	50.0



Figure 6: Spectral Diagrams, Conducted Emission, Phase (N)



※ Calculation Formula:

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage= Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage



QuasiPeak Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154500	46.8	9.000	N	9.7	19.0	65.8
0.163500	45.3	9.000	N	9.7	20.0	65.3
0.172500	44.2	9.000	N	9.7	20.6	64.8
0.181500	43.1	9.000	N	9.7	21.3	64.4
0.204000	52.0	9.000	N	9.7	11.4	63.4
0.262500	44.6	9.000	N	9.7	16.8	61.4
3.960500	41.1	9.000	N	10.1	14.9	56.0
4.104500	41.7	9.000	N	10.1	14.3	56.0
4.248500	40.0	9.000	N	10.1	16.0	56.0
4.316000	41.1	9.000	N	10.1	14.9	56.0
4.455500	41.8	9.000	N	10.1	14.2	56.0
4.599500	40.7	9.000	N	10.1	15.3	56.0
17.694500	37.5	9.000	N	10.7	22.5	60.0
19.710500	38.0	9.000	N	10.8	22.0	60.0
19.742000	35.6	9.000	N	10.8	24.4	60.0
19.809500	34.4	9.000	N	10.8	25.6	60.0
19.958000	34.8	9.000	N	10.8	25.2	60.0
20.021000	34.1	9.000	N	10.8	25.9	60.0



CAverage Final Result

Frequency (MHz)	CAverage (dBUV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBUV)
0.150000	30.0	9.000	N	9.7	26.0	56.0
0.163500	28.8	9.000	N	9.7	26.5	55.3
0.172500	28.6	9.000	N	9.7	26.2	54.8
0.186000	30.5	9.000	N	9.7	23.7	54.2
0.204000	37.3	9.000	N	9.7	16.1	53.4
0.262500	32.1	9.000	N	9.7	19.3	51.4
3.965000	31.3	9.000	N	10.1	14.7	46.0
4.104500	32.9	9.000	N	10.1	13.1	46.0
4.248500	33.2	9.000	N	10.1	12.8	46.0
4.316000	33.7	9.000	N	10.1	12.3	46.0
4.455500	33.6	9.000	N	10.1	12.4	46.0
4.599500	33.3	9.000	N	10.1	12.7	46.0
17.694500	32.0	9.000	N	10.7	18.0	50.0
18.243500	32.5	9.000	N	10.7	17.5	50.0
19.710500	32.6	9.000	N	10.8	17.4	50.0
19.742000	26.8	9.000	N	10.8	23.2	50.0
19.809500	25.8	9.000	N	10.8	24.2	50.0
20.025500	26.2	9.000	N	10.8	23.8	50.0



4.2 Radiated Emission Test

The following table shows the highest levels of Radiated Emissions on both polarization of horizontal and vertical.

-For Measurement Below 1 GHz

Limit Apply to	: FCC PART 15 Subpart B Class B
Detector	: Quasi-Peak 6 dB Bandwidth: RBW 120 kHz, VBW 300 kHz
Operation Mode	: Data Communication mode
Temperature	: 23.0°C
Relative Humidity	: 38.0 %
Test Date	: June 16, 2014

Frequency (MHz)	Quasi Peak (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
32.823888	25.2	138.0	V	338.0	14.8	14.8	40.0
47.814990	29.9	100.0	V	298.0	15.9	10.1	40.0
77.173307	33.3	263.0	H	92.0	12.4	6.7	40.0
265.610421	32.0	188.0	V	206.0	16.7	14.0	46.0
390.379238	37.4	100.0	H	29.0	20.3	8.6	46.0
624.989659	38.8	100.0	V	19.0	25.4	7.2	46.0

※ Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. QuasiPeak = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
4. Margin = Limit - QuasiPeak



-For Measurement Above 1 GHz

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz)
CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)

Highest Operating Frequency : 1.2 GHz

Testing Frequency Range : 1 GHz - 6 GHz

※ This product was tested up to the 5th harmonic above frequency.

Operation Mode : Data Communication mode

Temperature : 23.0°C

Relative Humidity : 38.0 %

Test Date : June 16, 2014

Frequency (MHz)	Peak (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1331.012024	50.8	100.0	V	12.0	-10.1	23.2	74.0
1995.340681	55.3	100.0	V	29.0	-9.7	18.7	74.0
2665.681362	48.4	100.0	V	207.0	-6.8	25.6	74.0
2991.032064	52.1	100.0	V	308.0	-5.7	21.9	74.0

Frequency (MHz)	CAverage (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1331.012024	32.2	100.0	V	12.0	-10.1	21.8	54.0
1995.340681	38.3	100.0	V	29.0	-9.7	15.7	54.0
2665.681362	31.2	100.0	V	207.0	-6.8	22.8	54.0
2991.032064	34.0	100.0	V	308.0	-5.7	20.0	54.0

※ Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. QuasiPeak or CAverage = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
4. Margin = Limit - Peak or CAverage



5. LIST OF TEST EQUIPMENT

<u>Type</u>	<u>Manufacturer</u>	<u>Model Name</u>	<u>Serial Number</u>	<u>Calibration Cycle</u>	<u>CAL Date</u>
<u>Conducted Emission</u>					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	01.24. 2014
<input checked="" type="checkbox"/> LISN	EMCO	3816/2SH	9706-1070	1 year	04.07. 2014
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	100073	1 year	01.29. 2014
<input type="checkbox"/> LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	07.03. 2013
<input type="checkbox"/> Attenuator	Rohde & Schwarz	ESH3-Z2	357.8810.352	1 year	07.03. 2013
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32	-	-	-
<u>Radiated Emission</u>					
-For measurement below 1 GHz					
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	04.07. 2014
<input type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB9160	3301	2 year	12.17. 2012
<input type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input type="checkbox"/> Turn Table	EMCO	1060-2M	-	N/A	-
<input type="checkbox"/> Turn Table controller	EMCO	2090	9702-1224	N/A	-
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	06.18.2014
<input checked="" type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB9168	185	2 year	04.16. 2013
<input checked="" type="checkbox"/> Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
<input checked="" type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32	-	-	-
-For measurement above 1 GHz					
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	04.07. 2014
<input type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input type="checkbox"/> Turn Table	EMCO	1060-2M	-	N/A	-
<input type="checkbox"/> Turn Table controller	EMCO	2090	9702-1224	N/A	-
<input type="checkbox"/> Power Amplifier	CERNEX	CBLU1183540	21691	1 year	07.24. 2013
<input checked="" type="checkbox"/> Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.11.2014
<input checked="" type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	12.13. 2012
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	06.18.2014
<input checked="" type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170124	2 year	10.30. 2013
<input type="checkbox"/> Power Amplifier	CERNEX	CBL18265035	22966	1 year	07.24. 2013
<input type="checkbox"/> Power Amplifier	CERNEX	CBL26405040	19660	1 year	04.04. 2014
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32	-	-	-



6. CONCLUSION

The data collected shows that the **EUT type: 2.4/5 GHz BT/WiFi Tablet, FCC ID: ZNFV480, Model: LG-V480** complies with §15.107 and §15.109 of the FCC rules.