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EMI CERTIFICATION REPORT

Applicant:	Date of Receipt: April 08, 2014
LG Electronics MobileComm U.S.A., Inc.	Date of Issue: April 21, 2014
1000 Sylvan Avenue, Englewood Cliffs NJ 07632	Test Report No. HCT-E-1404-F031
	HCT FRN: 0005866421

FCC ID: **ZNFV400**

Rule Part(s) / Standard(s)	: FCC PART 15 Subpart B Class B
EUT Type	: 2.4/5GHz BT/WiFi Tablet
Model Name	: LG-V400
Port / Connector(s)	: USB / Earphone Port
Date of Test	: April 12, 2014 - April 17, 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-1404-F031	April 21, 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-V400
FCC ID	ZNFV400
EUT Type	2.4/5GHz BT/WiFi Tablet
TX Frequency	2 402 ㎒ to 2 480 ㎒ (Bluetooth Ver3.0, Ver4.0) 2 412 ㎒ to 2 462 ㎒ (WLAN 2.4 ㎓) 5 180 ㎒ to 5 240 ㎒ (WLAN 5 ㎓(UNII 1)_BW 20) 5 260 ㎒ to 5 320 ㎒ (WLAN 5 ㎓(UNII 2)_BW 20) 5 500 ㎒ to 5 700 ㎒ (WLAN 5 ㎓(UNII 3)_BW 20) 5 745 ㎒ to 5 825 ㎒ (WLAN 5 ㎓(UNII 4)_BW 20) 5 190 ㎒ to 5 230 ㎒ (WLAN 5 ㎓(UNII 1)_BW 40) 5 270 ㎒ to 5 310 ㎒ (WLAN 5 ㎓(UNII 2)_BW 40) 5 510 ㎒ to 5 670 ㎒ (WLAN 5 ㎓(UNII 3)_BW 40) 5 755 ㎒ to 5 795 ㎒ (WLAN 5 ㎓(UNII 4)_BW 40)
RX Frequency	2 402 ㎒ to 2 480 ㎒ (Bluetooth Ver4.0) 2 412 ㎒ to 2 462 ㎒ (WLAN 2.4 ㎓) 5 180 ㎒ to 5 240 ㎒ (WLAN 5 ㎓(UNII 1)_BW 20) 5 260 ㎒ to 5 320 ㎒ (WLAN 5 ㎓(UNII 2)_BW 20) 5 500 ㎒ to 5 700 ㎒ (WLAN 5 ㎓(UNII 3)_BW 20) 5 745 ㎒ to 5 825 ㎒ (WLAN 5 ㎓(UNII 4)_BW 20) 5 190 ㎒ to 5 230 ㎒ (WLAN 5 ㎓(UNII 1)_BW 40) 5 270 ㎒ to 5 310 ㎒ (WLAN 5 ㎓(UNII 2)_BW 40) 5 510 ㎒ to 5 670 ㎒ (WLAN 5 ㎓(UNII 3)_BW 40) 5 755 ㎒ to 5 795 ㎒ (WLAN 5 ㎓(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-V400	LG	ZNFV400	Notebook PC Ear-phone
USB cable	EAD62185603	Ningbo Broad	-	E.U.T Notebook PC
USB cable	EAD62150404	CRESYN	-	E.U.T Notebook PC
Ear-phone	EAB62729016	I-SOUND	-	E.U.T
Notebook PC	ProBook6560b	H.P	DoC	EUT Notebook PC adaptor
Notebook PC adaptor	PPP009D	DELTA Electronics (JIANGSU)LTD	-	Notebook PC
Gateway	MV440	Axesstel	PH7MV440	Notebook PC, Adaptor
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)1.0
	Ear-phone	N/A	N	(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
	Ear-phone	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).
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.
Emission levels over 10dB under the prescribed limits could not be reported.

[Conducted Emission Limits]

Frequency (㎒)	Resolution Bandwidth	Quasi-Peak(dB㎶)	Average(dB㎶)
0.15 to 0.5	9 ㎑	66 to 56*	56 to 46*
0.5 to 5	9 ㎑	56	46
5 to 30	9 ㎑	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 10 m 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]

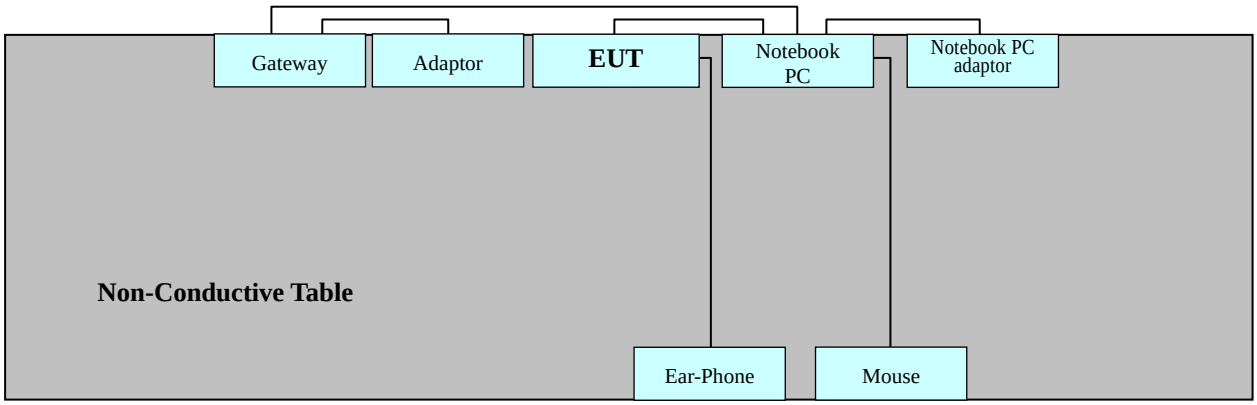
Frequency (㎒)	Antenna Distance (m)	Field Strength (㎶/m)	Quasi-Peak (dB㎶/m)
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0
Frequency (㎒)	**Antenna Distance (m)**	**Peak (dB㎶/m)**	**Average (dB㎶/m)**
Above 1 000	3	74	54

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 (㎒)	**Upper frequency of measurement range** (㎒)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 ㎓, 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, Average (6 ㏈ Bandwidth: 9 ㎑)
Operation Mode : Data Communication mode
USB Cable Manufacturer : CRESYN
※The worst-case emissions are reported.

Temperature : 21.4°C
Humidity Level : 39.2 %
Test Date : April 17, 2014

Frequency	Corr.	Conductor	Quasi-Peak			Average		
			Limit	Measurement Level	Result Level	Limit	Measurement Level	Result Level
(MHz)	(dB)		(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV]
0.1905	9.7	N	64.0	43.0	52.7	54.0	23.5	33.2
0.2085	9.7	N	63.3	44.6	54.3	53.3	-	-
0.2085	9.7	L1	63.3	40.4	50.1	53.3	25.8	35.5
4.6040	10.1	L1	56.0	30.0	40.1	46.0	21.7	31.8

※ Calculation Formula:

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. Measurement Level (Receiver Reading) = Result Level - Corr.
4. Result Level = Measurement Level + Corr.
** 'Result Level' in above table is same as the 'Quasi-Peak' and 'CAverage' of the Test Data Graph (Refer to page 13 to page 16 for details.)*

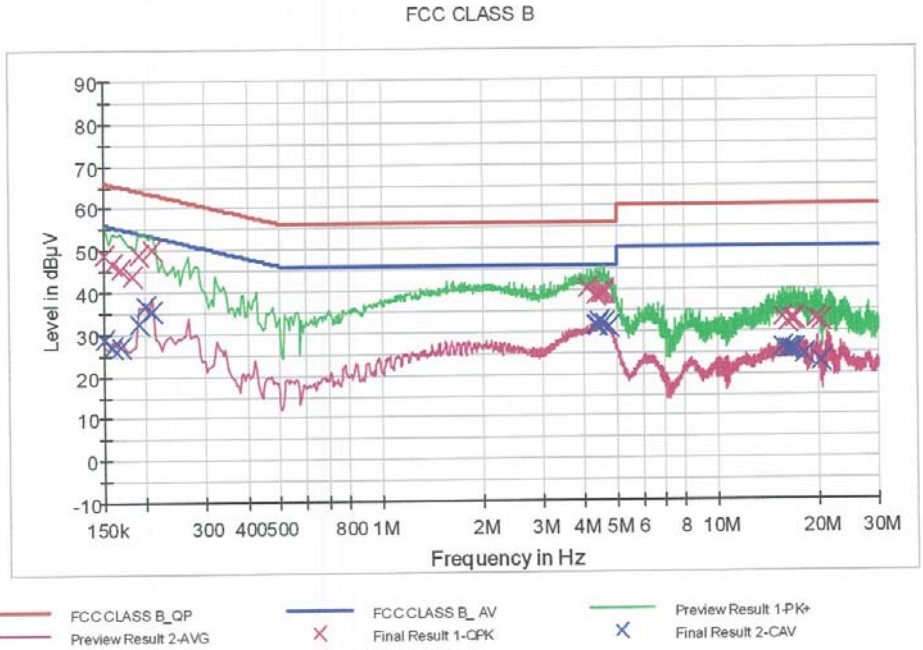
- Test Data Graph

EMI Auto Test(2) 1 / 2

HCT TEST Report

Common Information

EUT:	LG-V400
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	DATA MODE(CRESYN)
Operator Name:	



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	48.8	9.000	Off	L1	9.7	17.2	66.0
0.159000	46.8	9.000	Off	L1	9.7	18.7	65.5
0.168000	45.3	9.000	Off	L1	9.7	19.8	65.1
0.181500	43.8	9.000	Off	L1	9.7	20.6	64.4
0.190500	48.7	9.000	Off	L1	9.7	15.3	64.0
0.208500	50.1	9.000	Off	L1	9.7	13.2	63.3
4.109000	40.3	9.000	Off	L1	10.1	15.7	56.0
4.325000	38.6	9.000	Off	L1	10.1	17.4	56.0
4.365500	39.2	9.000	Off	L1	10.1	16.8	56.0
4.464500	39.3	9.000	Off	L1	10.1	16.7	56.0
4.559000	39.2	9.000	Off	L1	10.1	16.8	56.0
4.604000	40.1	9.000	Off	L1	10.1	15.9	56.0
15.512000	33.3	9.000	Off	L1	10.7	26.7	60.0
16.011500	32.1	9.000	Off	L1	10.7	27.9	60.0
16.434500	32.7	9.000	Off	L1	10.7	27.3	60.0
16.749500	32.9	9.000	Off	L1	10.7	27.1	60.0

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EMI Auto Test(2) 2 / 2

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
19.481000	32.8	9.000	Off	L1	10.9	27.2	60.0
20.120000	32.3	9.000	Off	L1	10.9	27.8	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	28.7	9.000	Off	L1	9.7	27.3	56.0
0.159000	27.0	9.000	Off	L1	9.7	28.5	55.5
0.168000	26.9	9.000	Off	L1	9.7	28.2	55.1
0.190500	32.3	9.000	Off	L1	9.7	21.7	54.0
0.199500	36.7	9.000	Off	L1	9.7	16.9	53.6
0.208500	35.5	9.000	Off	L1	9.7	17.8	53.3
4.325000	31.5	9.000	Off	L1	10.1	14.5	46.0
4.365500	31.7	9.000	Off	L1	10.1	14.3	46.0
4.392500	31.7	9.000	Off	L1	10.1	14.3	46.0
4.446500	32.3	9.000	Off	L1	10.1	13.7	46.0
4.604000	31.8	9.000	Off	L1	10.1	14.2	46.0
4.743500	31.2	9.000	Off	L1	10.1	14.8	46.0
15.512000	26.1	9.000	Off	L1	10.7	23.9	50.0
16.011500	25.6	9.000	Off	L1	10.7	24.4	50.0
16.434500	25.8	9.000	Off	L1	10.7	24.2	50.0
16.749500	25.9	9.000	Off	L1	10.7	24.1	50.0
18.095000	24.4	9.000	Off	L1	10.8	25.6	50.0
20.120000	22.7	9.000	Off	L1	10.9	27.3	50.0

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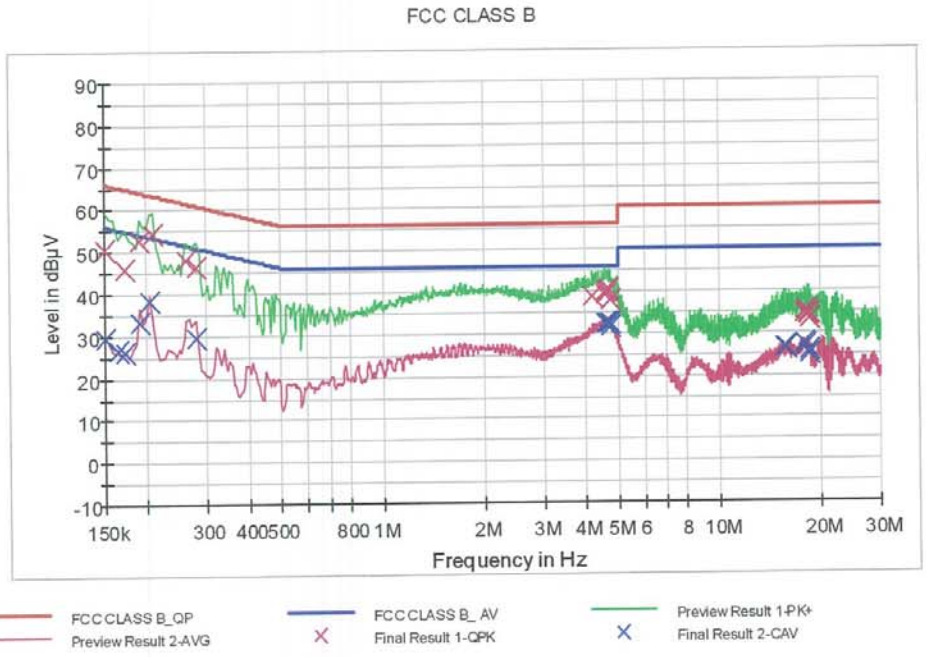
EMI Auto Test(2) 1 / 2

HCT TEST Report

Common Information

EUT:	LG-V400
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	DATA MODE(CRESYN)
Operator Name:	



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	50.3	9.000	Off	N	9.7	15.7	66.0
0.172500	45.8	9.000	Off	N	9.7	19.0	64.8
0.190500	52.7	9.000	Off	N	9.7	11.3	64.0
0.208500	54.3	9.000	Off	N	9.7	9.0	63.3
0.262500	48.1	9.000	Off	N	9.7	13.3	61.4
0.280500	46.2	9.000	Off	N	9.7	14.6	60.8
4.185500	38.6	9.000	Off	N	10.1	17.4	56.0
4.559000	39.8	9.000	Off	N	10.1	16.2	56.0
4.599500	39.0	9.000	Off	N	10.1	17.0	56.0
4.608500	40.0	9.000	Off	N	10.1	16.0	56.0
4.676000	40.2	9.000	Off	N	10.1	15.8	56.0
4.757000	37.9	9.000	Off	N	10.1	18.1	56.0
17.726000	34.4	9.000	Off	N	10.7	25.6	60.0
17.928500	35.2	9.000	Off	N	10.7	24.8	60.0
18.144500	34.5	9.000	Off	N	10.7	25.5	60.0
18.302000	34.1	9.000	Off	N	10.7	25.9	60.0

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EMI Auto Test(2) 2 / 2

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
18.360500	33.4	9.000	Off	N	10.7	26.6	60.0
18.428000	34.5	9.000	Off	N	10.7	25.5	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	29.7	9.000	Off	N	9.7	26.3	56.0
0.163500	26.7	9.000	Off	N	9.7	28.6	55.3
0.172500	26.2	9.000	Off	N	9.7	28.6	54.8
0.190500	33.2	9.000	Off	N	9.7	20.8	54.0
0.204000	38.4	9.000	Off	N	9.7	15.0	53.4
0.280500	29.6	9.000	Off	N	9.7	21.2	50.8
4.559000	32.5	9.000	Off	N	10.1	13.5	46.0
4.599500	32.6	9.000	Off	N	10.1	13.4	46.0
4.608500	32.6	9.000	Off	N	10.1	13.4	46.0
4.685000	32.3	9.000	Off	N	10.1	13.7	46.0
4.748000	32.3	9.000	Off	N	10.1	13.7	46.0
4.757000	31.4	9.000	Off	N	10.1	14.6	46.0
15.539000	26.4	9.000	Off	N	10.6	23.6	50.0
15.804500	26.5	9.000	Off	N	10.6	23.5	50.0
17.726000	27.3	9.000	Off	N	10.7	22.7	50.0
17.928500	27.0	9.000	Off	N	10.7	23.0	50.0
18.387500	25.0	9.000	Off	N	10.7	25.0	50.0
18.428000	25.8	9.000	Off	N	10.7	24.2	50.0

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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 ㎓

Limit Apply to : FCC PART 15 Subpart B Class B

Detector : Quasi-Peak
6 ㏈ Bandwidth: RBW 120 ㎑, VBW 300 ㎑

Operation Mode : Data Communication mode

USB Cable Manufacturer : CRESYN
※The worst-case emissions are reported.

Temperature : 22.5°C

Humidity Level : 31.3 %

Test Date : April 12, 2014

Frequency (MHz)	Reading (dBuV)	Polarity (H/V)	Antenna Height (m)	Correction Factor		Limit (dBuV/m)	Total Level (dBuV/m)	Margin (dB)
				Antenna (dB/m)	Cable (dB)			
82.0	24.7	H	2.4	7.9	3.7	40.0	36.3	3.7
108.8	17.9	V	1.0	10.3	3.8	43.5	32.1	11.4
419.2	20.8	H	1.0	16.0	4.9	46.0	41.7	4.3
625.0	12.5	V	1.0	20.0	5.4	46.0	37.9	8.1

※ Calculation Formula:

1. Polarity H = Horizontal, Polarity V = Vertical
2. Reading (Receiver Reading) = Total Level – Correction Factor
3. Margin = Limit - Total Level
4. Total Level = Quasi-Peak

-For Measurement Above 1 ㎓

Limit Apply to : FCC PART 15 Subpart B Class B

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

Operation Mode : Data Communication mode

USB cable Manufacturer : CRESYN

※The worst-case emissions are reported.

Temperature : 22.5°C

Humidity Level : 31.3 %

Test Date : April 12, 2014

Frequency (㎓)	Polarity (H/V)	Antenna Height (m)	Peak			Average		
			Total Level (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)	Total Level (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
1.3277	V	1.0	52.4	74	21.6	33.8	54	20.2
1.9908	V	1.0	57.4	74	16.6	39.8	54	14.2
2.6585	V	1.0	50.1	74	23.9	33.6	54	20.4

※ Calculation Formula:

1. Polarity H = Horizontal, Polarity V = Vertical
2. Margin = Limit - Total Level

5. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	Next CAL Date
Conducted Emission					
☒ EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	2015.01.24
☒ LISN	EMCO	3816/2SH	9706-1070	1 year	2015.04.07
☒ LISN	Rohde & Schwarz	ENV216	100073	1 year	2015.01.29
☐ EMI Test Receiver	Rohde & Schwarz	ESCI	100033	1 year	2014.06.23
☐ LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	2014.07.03
☐ Attenuator	Rohde & Schwarz	ESH3-Z2	357.8810.352	1 year	2014.07.03
☒ Software	Rohde & Schwarz	EMC32	-	-	-
Radiated Emission					
-For measurement below 1 ㎓					
☒ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	2015.04.07
☒ Trilog Antenna	Schwarzbeck	VULB9160	3301	2 year	2014.12.17
☒ Antenna master	HD GmbH	MA240	240/520	N/A	-
☒ Turn Table	HD GmbH	2090	9702/1224	N/A	-
☐ EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	2014.07.01
☐ Trilog Antenna	Schwarzbeck	VULB9168	185	2 year	2015.04.16
☐ Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32	-	-	-
-For measurement above 1 ㎓					
☒ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	2015.04.07
☒ Antenna master	HD GmbH	MA240	240/520	N/A	-
☒ Turn Table	HD GmbH	2090	9702/1224	N/A	-
☐ Power Amplifier	CERNEX	CBLU1183540	21691	1 year	2014.07.24
☒ Power Amplifier	CERNEX	CBLU1183540	21690	1 year	2014.07.12
☒ Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	2014.12.13
☐ EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	2014.07.01
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☐ Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
☐ Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170124	2 year	2014.10.30
☒ Power Amplifier	CERNEX	CBL18265035	22966	1 year	2014.07.24
☒ Power Amplifier	CERNEX	CBL26405040	19660	1 year	2015.04.04
☒ Software	Rohde & Schwarz	EMC32	-	-	-

6. CONCLUSION

The data collected shows that the **EUT type: 2.4/5GHz BT/WiFi Tablet, FCC ID: ZNFV400, Model: LG-V400** complies with §15.107 and §15.109 of the FCC rules.