

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name:

LG Electronics MobileComm U.S.A., Inc.

Address:

1000 Sylvan Avenue, Englewood Cliffs NJ 07632

Date of Issue:

April 09, 2014

Test Site/Location:

HCT CO., LTD., 74, Seoicheon-ro 578beon-gil,

Majang-myeon, Icheon-si, Gyeonggi-do, Korea

Report No.: HCT-R-1404-F008

HCT FRN: 0005866421

IC Recognition No.: 5944A-3

FCC ID

: ZNFV700

IC

: 2703C-V700

APPLICANT

: LG Electronics MobileComm U.S.A., Inc.

FCC/ IC Model(s):

LG-V700

Additional

LGV700, V700

FCC/ IC Model(s):

EUT Type:

2.4G/5G Dual WIFI Tablet

Max. RF Output Power:

Wi-Fi 802.11b (16.36 dBm) / Wi-Fi 802.11g (17.93 dBm)/ Wi-Fi 802.11n (2.4 GHz) (17.12 dBm)

/ Wi-Fi 802.11a (5.8 GHz) (17.41 dBm)/ Wi-Fi 802.11n_20 MHz BW (5.8 GHz) (16.08 dBm)

/ Wi-Fi 802.11n_40 MHz BW (5.8 GHz) (16.91 dBm)

Frequency Range:

2412 MHz - 2462 MHz (2.4 GHz Band)

5745 MHz - 5825 MHz (5.8 GHz Band) 20 MHz BW, 5755 MHz - 5795 MHz (5.8 GHz Band) 40 MHz BW

Modulation type

CCK/DSSS/OFDM

FCC Classification:

Digital Transmission System(DTS)

FCC Rule Part(s):

Part 15.247

IC Rule:

RSS-210, RSS-GEN

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.

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 : Kyoung Houn Seo

Test engineer of RF Team

Approved by

: Chang Seok Choi

Manager of RF Team

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FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1404-F008	April 09, 2014	- First Approval Report

FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
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HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700



1. GENERAL INFORMATION

Applicant: LG Electronics MobileComm U.S.A., Inc.

Address: 1000 Sylvan Avenue, Englewood Cliffs NJ 07632

FCC ID: ZNFV700

IC: 2703C-V700

EUT Type: 2.4G/5G Dual WIFI Tablet

FCC/IC Model name(s): LG-V700

Additional FCC/IC Model name(s): LGV700, V700

Date(s) of Tests: March 20, 2014 ~ April 07, 2014

Place of Tests: HCT Co., Ltd.

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

(IC Recognition No.: 5944A-3)

2. EUT DESCRIPTION

EUT Type	2.4G/5	2.4G/5G Dual WIFI Tablet				
FCC/ IC Model Name	LG-V7	G-V700				
Additional FCC/ IC Model Name	LGV70	00, V700				
Power Supply	DC 3.8	V				
Battery type	Li-ion E	Battery(Standard)				
Frequency Range	TX	TX : 2412 MHz~2462 MHz, 5745 MHz~5825 MHz_20 MHz, 5755 MHz~5795 MHz_40 MHz				
	RX	: 2412 MHz~2462 MHz, 5745 MHz~5825 MHz_20 MHz, 5755 MHz~5795 MHz_40 MHz				
Max. RF Output Power	Peak	Wi-Fi 802.11b (16.36 dBm) / Wi-Fi 802.11g (17.93 dBm)/ Wi-Fi 802.11n (2.4 GHz) (17.12 dBm) / Wi-Fi 802.11a (5.8 GHz) (17.41 dBm)/ Wi-Fi 802.11n_20 MHz BW (5.8 GHz) (16.08 dBm) / Wi-Fi 802.11n_40 MHz BW (5.8 GHz) (16.91 dBm)				
	Averag					
Modulation Type	DSSS/CCK(802.11b), OFDM(802.11a, 802.11g, 802.11n)					
Antenna Specification	Manuf	acturer: Ace Technology				
	Antenr	Antenna type: Planar Inverted F Antenna				
	Peak G	Sain : 2.98 dBi (2.4 GHz Band), -0.33 dBi (5.8 GHz Band)				

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3. TEST METHODOLOGY

FCC KDB 558074 D01 DTS Meas Guidance v03r01 dated April 09, 2013 entitled "Guidance for Performing Compliance Measurements on Digital Transmission Systems(DTS) and the measurement procedure described in the American National Standard for Testing Unlicensed Wireless Devices(ANSI C63.4-2003) Operating Under §15.247" were used in the measurement.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version :2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version: 2003)

Conducted Antenna Terminal

See Section from 9.1 to 9.2.(KDB 558074)

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

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4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated February 28, 2014 (Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

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^{*} The antennas of this E.U.T are permanently attached.

^{*}The E.U.T Complies with the requirement of §15.203



7. SUMMARY TEST OF RESULTS

Test Description	IC Part Section(s)	FCC Part Section(s)	Test Limit	Test Condition	Test Result
6 dB Bandwidth, (FCC) 99% Bandwidth(IC)	RSS-210 [A8.2]	§15.247(a)(2)	> 500 kHz		PASS
Conducted Maximum Peak Output Power	RSS-210 [A8.4]	§15.247(b)(3)	< 1 Watt		PASS
Power Spectral Density	RSS-210 [A8.2]	§15.247(e)	< 8 dBm / 3 kHz Band	CONDUCTED	PASS
Band Edge(Out of Band Emissions)	RSS-210 [A8.5]	§15.247(d)	Conducted > 20 dBc		PASS
AC Power line Conducted Emissions	RSS-GEN [7.2.2]	§15.207	cf. Section 8.8		NA
Radiated Spurious Emissions	RSS-210 [A8.5]	§15.205, 15.209	cf. Section 8.7.1		PASS
Receiver Spurious Emissions	RSS-GEN, Section 7.2.3	§15.109	cf. Section 8.7.2	RADIATED	PASS
Radiated Restricted Band Edge	RSS-210 [A8.5]	§15.247(d), 15.205, 15.209	cf. Section 8.7.3		PASS

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8. TEST RESULT

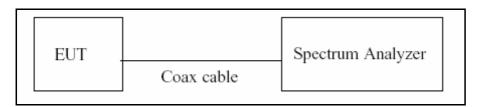
8.1 DUTY CYCLE(802.11a/b/g/n)

TEST PROCEDURE

According to KDB 558074)6)b), issued 04/09/2013)

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074(issued 04/09/2013)

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

- 1. RBW = 8 MHz (the largest availble value)
- 2. VBW = 8 MHz (≥ RBW)
- 3. SPAN = 0 Hz
- 4. Detector = Peak
- 5. Number of points in sweep > 100
- 6. Trace mode = Clear write
- 7. Measure T_{total} and T_{on}
- 8. Calculate Duty Cycle = T_{on}/T_{total} and Duty Cycle Factor = 10*log(1/Duty Cycle)

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Duty Cycle Factor

Mode	Data Rate	T _{on}	T _{total}	Duty Cycle	Duty Cycle Factor
		(ms)	(ms)		(dB)
2.4 GHz Band	1	12.200	12.300	0.99186992	0.035
	2	6.200	6.300	0.98412698	0.069
802.11b	5.5	2.380	2.470	0.96356275	0.161
002.110	11	1.290	1.390	0.92805755	0.324
	6	2.010	2.130	0.94366197	0.252
	9	1.350	1.460	0.92465753	0.340
2.4 GHz Band	12	1.009	1.115	0.90493274	0.434
802.11g	18	0.684	0.792	0.86363636	0.637
and 5.8 GHz Band	24	0.516	0.615	0.83902439	0.762
802.11a	36	0.348	0.453	0.76821192	1.145
0021114	48	0.270	0.375	0.72000000	1.427
	54	0.242	0.340	0.71176471	1.477
	6.5	1.870	1.970	0.94923858	0.226
2.4 GHz Band	13	0.942	1.055	0.89289100	0.492
802.11n_20 MHz	19.5	0.635	0.740	0.85810811	0.665
BW	26	0.480	0.579	0.82901554	0.814
and 5.8 GHz Band	39	0.336	0.435	0.77241379	1.121
802.11n_20 MHz	52	0.252	0.357	0.70588235	1.513
BW	58.5	0.232	0.330	0.70303030	1.530
	65	0.212	0.310	0.68387097	1.650
	13.5	0.919	1.020	0.90098039	0.453
	27	0.472	0.571	0.82661996	0.827
	40.5	0.325	0.424	0.76650943	1.155
5.8 GHz Band	54	0.246	0.347	0.70893372	1.494
802.11n_40 MHz	81	0.176	0.276	0.63768116	1.954
BW	108	0.136	0.235	0.57872340	2.375
	121.5	0.124	0.223	0.55605381	2.549
	135	0.115	0.215	0.53488372	2.717

Note : Duty Cycle Factor = 10*log(1/Duty Cycle). where, Duty Cycle = T_{on} / T_{total}

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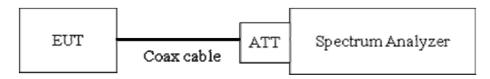
8.2 6dB BANDWIDTH (802.11a/b/g/n)

Test Requirements and limit, §15.247(a)(2)

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6dB bandwidth is 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to (Page 5 in KDB 558074, issued 04/09/2013)

RBW = 100 kHz

VBW ≥ 3 x RBW

Detector = Peak

Trace mode = max hold

Sweep = auto couple

Allow the trace to stabilize

Note: We tested 6 dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer. X dB is set 6 dB.

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TEST RESULTS

2.4 GHz Band

Conducted 6dB Bandwidth Measurements for 802.11b

802.11b Mode		Measured Bandwidth	Minimum Bandwidth		
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail	
2412	1	8.564	0.500	Pass	
2437	6	8.106	0.500	Pass	
2462	11	8.573	0.500	Pass	

Conducted 6dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth	Minimum Bandwidth		
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail	
2412	1	16.42	0.500	Pass	
2437	6	16.42	0.500	Pass	
2462	11	16.42	0.500	Pass	

Conducted 6dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth	Minimum Bandwidth		
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail	
2412	1	17.64	0.500	Pass	
2437	6	17.65	0.500	Pass	
2462	11	17.62	0.500	Pass	

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5.8 GHz Band

Conducted 6 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth	Minimum Bandwidth		
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail	
5745	149	16.42	0.500	Pass	
5785	157	16.40	0.500	Pass	
5825	165	16.47	0.500	Pass	

Conducted 6 dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail
5745	149	17.62	0.500	Pass
5785	157	17.70	0.500	Pass
5825	165	17.66	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_40 MHz BW

802.11n Mode		Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail
5755	151	35.19	0.500	Pass
5795	159	35.36	0.500	Pass

Note: In order to simplify the report, attached plots were only the most wide 6 dB BW channel.

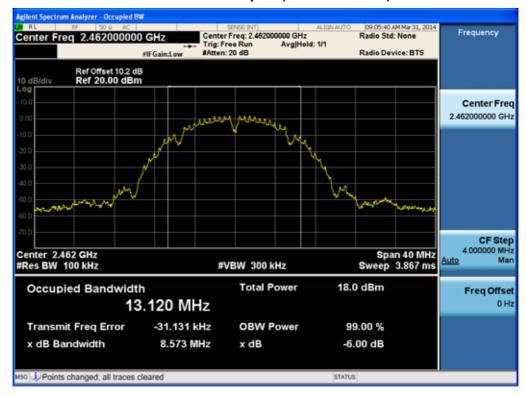
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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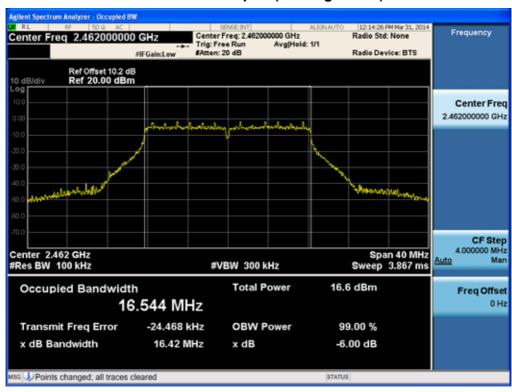
RESULT PLOTS

2.4 GHz Band

6dB Bandwidth plot (802.11b-CH 11)



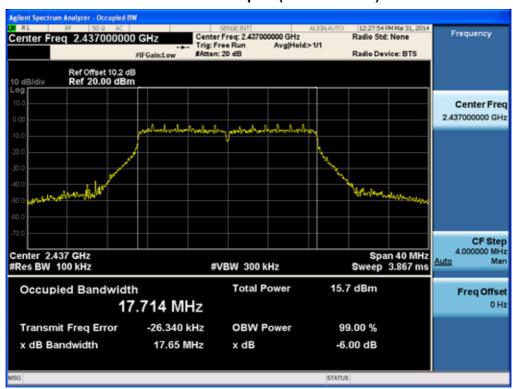
6dB Bandwidth plot (802.11g-CH 11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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6dB Bandwidth plot (802.11n-CH 6)

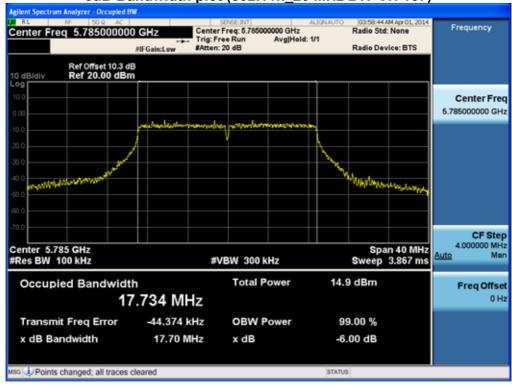




6dB Bandwidth plot (802.11a-CH 165)



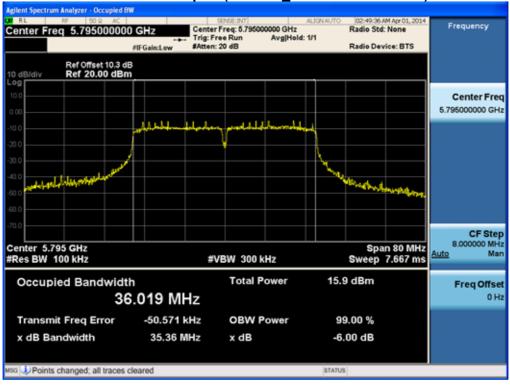
6dB Bandwidth plot (802.11n_20 MHz BW-CH 157)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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6dB Bandwidth plot (802.11n_40 MHz BW-CH 159)



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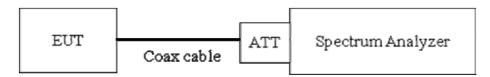


8.3 99% BANDWIDTH (802.11a/b/g/n)

limit

None; for IC reporting purposes only

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to as close to 1% of the selected span. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RBW = 1% of the total span

VBW ≥ 3 x RBW

Detector = Peak

Trace mode = max hold

Sweep = auto couple

Allow the trace to stabilize

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TEST RESULTS

2.4 GHz Band

Conducted 99% Bandwidth Measurements for 802.11b

802.11b Mo	Measured Bandwidth	
Frequency [MHz]	Channel No.	[MHz]
2412	1	13.144
2437	6	13.146
2462	11	13.151

Conducted 99% Bandwidth Measurements for 802.11g

802.11g Mo	Measured Bandwidth	
Frequency [MHz]	Channel No.	[MHz]
2412	1	17.147
2437	6	17.089
2462	11	17.147

Conducted 99% Bandwidth Measurements for 802.11n

802.11n Mo	Measured Bandwidth	
Frequency [MHz]	Channel No.	[MHz]
2412	1	18.097
2437	6	18.080
2462	11	18.112

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5.8 GHz Band

Conducted 99% Bandwidth Measurements for 802.11a

802.11a Mo	Measured Bandwidth	
Frequency [MHz]	Channel No.	[MHz]
5745	149	17.025
5785	157	17.056
5825	165	17.042

Conducted 99% Bandwidth Measurements for 802.11n_20 MHz BW

802.11a Mo	Measured Bandwidth	
Frequency [MHz]	Channel No.	[MHz]
5745	149	18.027
5785	157	18.091
5825	165	18.080

Conducted 99% Bandwidth Measurements for 802.11n_40 MHz BW

802.11n Mo	Measured Bandwidth	
Frequency [MHz]	Channel No.	[MHz]
5755	151	36.645
5795	159	36.554

Note: In order to simplify the report, attached plots were only the most wide 99 % BW channel.

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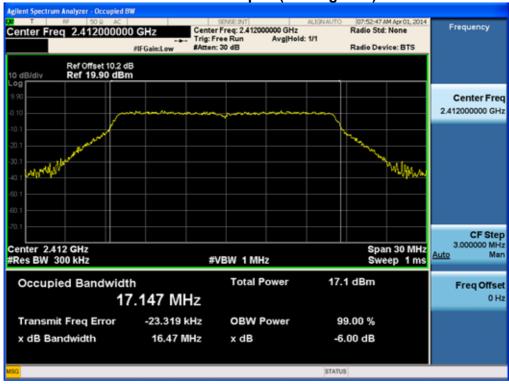
RESULT PLOTS

2.4 GHz Band

99% Bandwidth plot (802.11b-CH11)



99% Bandwidth plot (802.11g-CH1)



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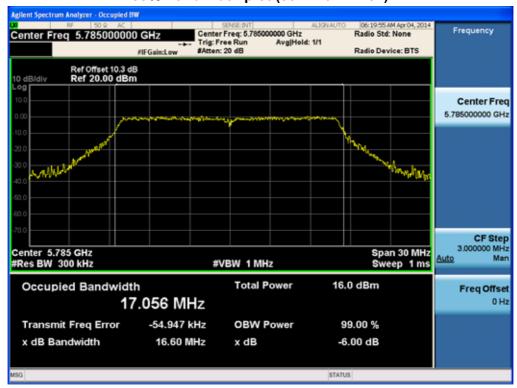
99% Bandwidth plot (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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99% Bandwidth plot (802.11a-CH157)



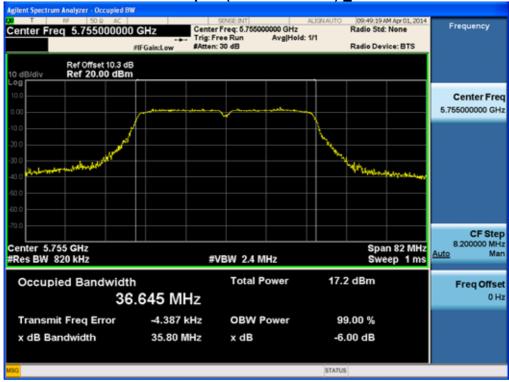




FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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99% Bandwidth plot (802.11n-CH151) _40 MHz BW



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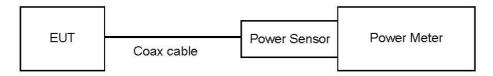
8.4 OUTPUT POWER (802.11a/b/g/n)

Test Requirements and limit, §15.247(b)(3)

The transmitter output is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt.

TEST CONFIGURATION(20 MHz BW)



TEST PROCEDURE(20 MHz BW)

- Peak Power (Procedure 9.1.3 in KDB 558074, issued 04/09/2013)
 - 1. Measure the peak power of the transmitter.
- Average Power (Procedure 9.2.3.1 in KDB 558074, issued 04/09/2013)
 - 1. Measure the duty cycle.
 - 2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
 - 3. Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Note:

1. We apply to the offset in the 2.4 GHz and 5.8 GHz range that was rounded off to the closest tenth dB. So, 20.2 dB is offset for 2.4 GHz Band and 20.3 dB is offset for 5.8 GHz Band.

Actual value of loss for the attenuator and cable combination is below table.

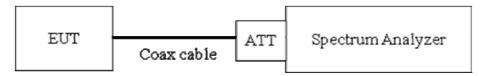
Band	Frequency(MHz)	Loss(dB)
	2412	20.21
2.4 GHz	2437	20.24
	2462	20.24
5.8 GHz	5745	20.31
	5755	20.30
	5785	20.29
	5795	20.26
	5825	20.28

(Actual value of loss for the attenuator and cable combination)

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TEST CONFIGURATION(40 MHz BW)



TEST PROCEDURE(40 MHz BW)

The transmitter output is connected to the Spectrum Analyzer. We use the spectrum analyzer's integrated band power measurement function.

The Spectrum Analyzer is set to

Peak Power (Procedure 9.1.2 in KDB 558074, issued 04/09/2013)

RBW = 1 MHz

VBW ≥ 3 x RBW

SPAN ≥ 1.5 x DTS bandwidth

Detector Mode = Peak

Sweep = auto couple

Trace Mode = max hold

Allow trace to fully stabilize.

Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector).

Average Power (Procedure 9.2.2.4 in KDB 558074, issued 04/09/2013)

Measure the duty cycle

Set span to at least 1.5 times the OBW

RBW = 1-5 % of the OBW, not to exceed 1 MHz.

VBW ≥ $3 \times RBW$.

Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$,

so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS(i.e., power averaging)

Do not use sweep triggering. Allow the sweep to "free run".

Trace average at least 100 traces in power averaging(RMS) mode.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.

Add 10 $\log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

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Sample Calculation

Output Power = Reading Value + ATT loss + Cable loss(1 ea) + Duty Cycle Factor Output Power = 10 dBm + 20 dB + 0.8 dB + 0.2 dB = 31.0 dBm

Note:

- 1. Spectrum reading values are not plot data. The power results in plot is already including the actual values of loss for the attenuator and cable combination.
- 2. Spectrum offset = Attenuator loss + Cable loss
- 3. We apply to the offset in the 2.4 GHz and 5.8 GHz range that was rounded off to the closest tenth dB. So, 10.2 dB is offset for 2.4 GHz Band and 10.3 dB is offset for 5.8 GHz Band.

Actual value of loss for the attenuator and cable combination is below table.

Band	Frequency(MHz)	Loss(dB)
	2412	20.21
2.4 GHz	2437	20.24
	2462	20.24
	5745	20.31
	5755	20.30
5.8 GHz	5785	20.29
	5795	20.26
	5825	20.28

(Actual value of loss for the attenuator and cable combination)

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TEST RESULTS-Peak

2.4 GHz Band

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		1 Mbps	12.79	30
2412	1	2 Mbps	13.03	30
2412	1	5.5 Mbps	14.80	30
		11 Mbps	16.28	30
	6	1 Mbps	12.64	30
2437		2 Mbps	13.18	30
2437		5.5 Mbps	14.74	30
		11 Mbps	16.20	30
		1 Mbps	13.02	30
2462		2 Mbps	13.12	30
	11	5.5 Mbps	14.62	30
		11 Mbps	16.36	30

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Conducted Output Power Measurements (802.11g Mode)

802.11g	Mode	Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6 Mbps	17.69	30
		9 Mbps	17.44	30
		12 Mbps	17.37	30
2412	4	18 Mbps	17.37	30
2412	1	24 Mbps	17.82	30
		36 Mbps	17.82	30
		48 Mbps	17.90	30
		54 Mbps	17.81	30
	6	6 Mbps	17.55	30
		9 Mbps	17.54	30
		12 Mbps	17.49	30
2437		18 Mbps	17.37	30
2437		24 Mbps	17.87	30
		36 Mbps	17.83	30
		48 Mbps	17.90	30
		54 Mbps	17.93	30
		6 Mbps	17.36	30
		9 Mbps	17.34	30
		12 Mbps	17.32	30
2462	14	18 Mbps	17.31	30
	11	24 Mbps	17.75	30
		36 Mbps	17.75	30
		48 Mbps	17.81	30
		54 Mbps	17.79	30

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Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6.5 Mbps	16.45	30
		13 Mbps	16.63	30
		19.5 Mbps	16.34	30
2412	4	26 Mbps	16.82	30
2412	1	39 Mbps	17.12	30
		52 Mbps	16.90	30
		58.5 Mbps	16.89	30
		65 Mbps	16.85	30
		6.5 Mbps	16.47	30
	6	13 Mbps	16.36	30
		19.5 Mbps	16.38	30
2437		26 Mbps	16.89	30
2437		39 Mbps	16.84	30
		52 Mbps	16.91	30
		58.5 Mbps	16.94	30
		65 Mbps	16.83	30
		6.5 Mbps	16.39	30
		13 Mbps	16.66	30
		19.5 Mbps	16.29	30
2462	11	26 Mbps	16.82	30
2402	11	39 Mbps	16.80	30
		52 Mbps	16.90	30
		58.5 Mbps	16.89	30
		65 Mbps	16.84	30

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5.8 GHz Band

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6 Mbps	16.75	30
		9 Mbps	16.85	30
		12 Mbps	16.36	30
57.45	440	18 Mbps	16.56	30
5745	149	24 Mbps	16.83	30
		36 Mbps	16.76	30
		48 Mbps	16.88	30
		54 Mbps	16.74	30
		6 Mbps	17.39	30
		9 Mbps	17.41	30
	157	12 Mbps	16.85	30
E70E		18 Mbps	16.66	30
5785		24 Mbps	17.23	30
		36 Mbps	17.19	30
		48 Mbps	17.14	30
		54 Mbps	17.02	30
		6 Mbps	17.09	30
		9 Mbps	17.01	30
		12 Mbps	16.85	30
5825	165	18 Mbps	16.73	30
ე ō∠5	100	24 Mbps	17.19	30
		36 Mbps	17.13	30
		48 Mbps	16.95	30
		54 Mbps	16.98	30

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Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6.5 Mbps	15.59	30
		13 Mbps	15.06	30
		19.5 Mbps	15.03	30
E745	149	26 Mbps	15.42	30
5745	149	39 Mbps	15.19	30
		52 Mbps	15.07	30
		58.5 Mbps	15.14	30
		65 Mbps	15.10	30
		6.5 Mbps	16.08	30
	157	13 Mbps	15.71	30
		19.5 Mbps	15.60	30
5785		26 Mbps	15.90	30
5705		39 Mbps	15.94	30
		52 Mbps	15.83	30
		58.5 Mbps	15.78	30
		65 Mbps	15.79	30
		6.5 Mbps	16.02	30
		13 Mbps	15.59	30
		19.5 Mbps	15.61	30
5825	165	26 Mbps	15.99	30
	100	39 Mbps	15.86	30
		52 Mbps	15.96	30
		58.5 Mbps	15.81	30
		65 Mbps	15.67	30

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Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		13.5 Mbps	16.64	30
		27 Mbps	16.07	30
		40.5 Mbps	16.07	30
5755	151	54 Mbps	16.55	30
5755	151	81 Mbps	16.34	30
		108 Mbps	16.14	30
		121.5 Mbps	16.06	30
		135 Mbps	16.09	30
		13.5 Mbps	16.91	30
		27 Mbps	16.50	30
		40.5 Mbps	16.51	30
5795	159	54 Mbps	16.67	30
5/35	159	81 Mbps	16.46	30
		108 Mbps	16.37	30
		121.5 Mbps	16.49	30
		135 Mbps	16.32	30

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TEST RESULTS-Average

2.4 GHz Band

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode					Measured	
Frequency [MHz]	Channel No.	Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Power(dBm) + Duty Cycle Factor	Limit (dBm)
		1 Mbps	10.38	0.035	10.42	30
2442	4	2 Mbps	10.14	0.069	10.21	30
2412	1	5.5 Mbps	10.45	0.161	10.61	30
		11 Mbps	9.97	0.324	10.29	30
		1 Mbps	10.35	0.035	10.39	30
0.407		2 Mbps	10.51	0.069	10.58	30
2437	6	5.5 Mbps	10.43	0.161	10.59	30
		11 Mbps	10.03	0.324	10.35	30
		1 Mbps	10.49	0.035	10.53	30
0.460	44	2 Mbps	10.26	0.069	10.33	30
2462	11	5.5 Mbps	10.22	0.161	10.38	30
		11 Mbps	10.09	0.324	10.41	30

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Conducted Output Power Measurements (802.11g Mode)

802.11g N	Mode				Measured	
Frequency [MHz]	Channel No.	Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Power(dBm) + Duty Cycle Factor	Limit (dBm)
		6 Mbps	9.60	0.252	9.85	30
		9 Mbps	9.27	0.340	9.61	30
		12 Mbps	9.15	0.434	9.58	30
2412	1	18 Mbps	8.99	0.637	9.62	30
2412	'	24 Mbps	8.82	0.762	9.59	30
		36 Mbps	8.53	1.145	9.67	30
		48 Mbps	8.21	1.427	9.63	30
		54 Mbps	8.08	1.477	9.55	30
		6 Mbps	9.47	0.252	9.73	30
		9 Mbps	9.38	0.340	9.72	30
		12 Mbps	9.16	0.434	9.59	30
2437	6	18 Mbps	9.00	0.637	9.64	30
2437	6	24 Mbps	8.83	0.762	9.59	30
		36 Mbps	8.51	1.145	9.66	30
		48 Mbps	8.23	1.427	9.66	30
		54 Mbps	8.10	1.477	9.58	30
		6 Mbps	9.28	0.252	9.53	30
		9 Mbps	9.20	0.340	9.54	30
		12 Mbps	9.10	0.434	9.54	30
2462	44	18 Mbps	8.93	0.637	9.56	30
	11	24 Mbps	8.74	0.762	9.50	30
		36 Mbps	8.42	1.145	9.56	30
		48 Mbps	8.15	1.427	9.58	30
		54 Mbps	8.04	1.477	9.52	30

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Conducted Output Power Measurements (802.11n Mode)

802.11n Mode					Measured	
Frequency [MHz]	Channel No.	Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Power(dBm) + Duty Cycle Factor	Limit (dBm)
2412	1	6.5 Mbps	8.28	0.226	8.50	30
		13 Mbps	8.40	0.492	8.89	30
		19.5 Mbps	7.95	0.665	8.61	30
		26 Mbps	7.77	0.814	8.58	30
		39 Mbps	7.69	1.121	8.81	30
		52 Mbps	7.03	1.513	8.54	30
		58.5 Mbps	7.06	1.530	8.59	30
		65 Mbps	6.97	1.650	8.62	30
		6.5 Mbps	8.35	0.226	8.58	30
	6	13 Mbps	8.17	0.492	8.66	30
		19.5 Mbps	7.95	0.665	8.62	30
2437		26 Mbps	7.75	0.814	8.56	30
2437		39 Mbps	7.42	1.121	8.54	30
		52 Mbps	7.17	1.513	8.69	30
		58.5 Mbps	7.10	1.530	8.63	30
		65 Mbps	6.93	1.650	8.58	30
2462	11	6.5 Mbps	8.28	0.226	8.50	30
		13 Mbps	8.39	0.492	8.88	30
		19.5 Mbps	7.89	0.665	8.56	30
		26 Mbps	7.74	0.814	8.55	30
		39 Mbps	7.44	1.121	8.56	30
		52 Mbps	7.20	1.513	8.71	30
		58.5 Mbps	7.05	1.530	8.58	30
		65 Mbps	6.99	1.650	8.64	30

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Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a M Frequency [MHz]	Mode Channel No.	Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
5745	149	6 Mbps	9.15	0.252	9.40	30
		9 Mbps	9.11	0.340	9.45	30
		12 Mbps	9.01	0.434	9.44	30
		18 Mbps	8.92	0.637	9.55	30
		24 Mbps	8.54	0.762	9.30	30
		36 Mbps	8.16	1.145	9.31	30
		48 Mbps	7.94	1.427	9.37	30
		54 Mbps	7.72	1.477	9.19	30
	157	6 Mbps	9.75	0.252	10.00	30
		9 Mbps	9.70	0.340	10.04	30
		12 Mbps	9.40	0.434	9.83	30
5785		18 Mbps	9.05	0.637	9.69	30
5/05		24 Mbps	8.89	0.762	9.65	30
		36 Mbps	8.63	1.145	9.78	30
		48 Mbps	8.22	1.427	9.65	30
		54 Mbps	8.00	1.477	9.48	30
5825	165	6 Mbps	9.42	0.252	9.67	30
		9 Mbps	9.34	0.340	9.68	30
		12 Mbps	9.36	0.434	9.79	30
		18 Mbps	9.05	0.637	9.69	30
		24 Mbps	8.93	0.762	9.69	30
		36 Mbps	8.56	1.145	9.70	30
		48 Mbps	8.00	1.427	9.42	30
		54 Mbps	7.99	1.477	9.46	30

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Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n M Frequency [MHz]	Mode Channel No.	Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle	Limit (dBm)
		6.5 Mbps	8.78	0.226	Factor 9.01	30
		13 Mbps	8.55	0.492	9.04	30
		19.5 Mbps	8.43	0.665	9.10	30
		26 Mbps	8.04	0.814	8.86	30
5745	149	39 Mbps	7.70	1.121	8.83	30
		52 Mbps	7.44	1.513	8.96	30
		58.5 Mbps	7.06	1.530	8.60	30
		65 Mbps	6.94	1.650	8.59	30
		6.5 Mbps	9.09	0.226	9.32	30
	157	13 Mbps	8.81	0.492	9.30	30
		19.5 Mbps	8.67	0.492	9.34	30
		26 Mbps	8.43	0.803	9.34	30
5785		-			9.29	30
		39 Mbps	8.17	1.121	9.29	
		52 Mbps	7.62	1.513		30
		58.5 Mbps	7.51	1.530	9.04	30
		65 Mbps	7.40	1.650	9.05	30
		6.5 Mbps	9.10	0.226	9.32	30
		13 Mbps	8.83	0.492	9.32	30
5825		19.5 Mbps	8.67	0.665	9.33	30
	165	26 Mbps	8.45	0.814	9.27	30
	100	39 Mbps	8.00	1.121	9.12	30
		52 Mbps	7.80	1.513	9.31	30
		58.5 Mbps	7.59	1.530	9.12	30
		65 Mbps	7.40	1.650	9.05	30

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Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode					Measured	
Frequency [MHz]	Channel No.	Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Power(dBm) + Duty Cycle Factor	Limit (dBm)
		13.5 Mbps	9.73	0.453	10.18	30
		27 Mbps	9.16	0.827	9.98	30
		40.5 Mbps	8.69	1.155	9.84	30
5755	151	54 Mbps	8.37	1.494	9.87	30
5755	151	81 Mbps	7.87	1.954	9.82	30
		108 Mbps	7.31	2.375	9.68	30
		121.5 Mbps	7.06	2.549	9.61	30
		135 Mbps	6.98	2.717	9.69	30
		13.5 Mbps	9.79	0.453	10.24	30
		27 Mbps	9.31	0.827	10.14	30
		40.5 Mbps	9.01	1.155	10.17	30
5705	450	54 Mbps	8.60	1.494	10.10	30
5795	159	81 Mbps	7.98	1.954	9.93	30
		108 Mbps	7.49	2.375	9.87	30
		121.5 Mbps	7.33	2.549	9.88	30
		135 Mbps	7.17	2.717	9.89	30

Note: In order to simplify the report, attached plots were only the highest conducted power channel and data rate.

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RESULT PLOTS-Peak 40 MHz BW (5755 MHz ~5795 MHz)

Conducted Output Power (802.11n-CH 151) 13.5 Mbps



Conducted Output Power (802.11n-CH 159) 13.5 Mbps

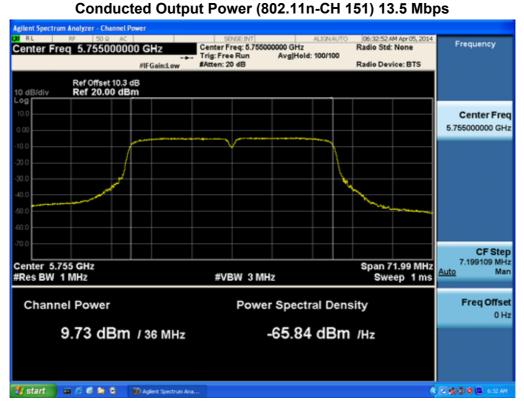


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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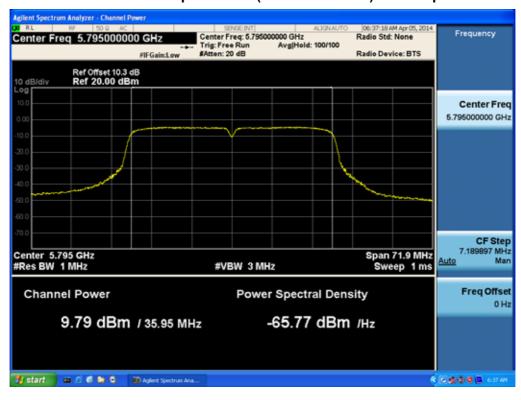


RESULT PLOTS-Average 40 MHz BW (5755 MHz ~5795 MHz)

(0700 IIII 12 0700 IIII 12)



Conducted Output Power (802.11n-CH 159) 13.5 Mbps



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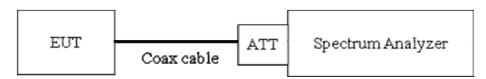
8.5 POWER SPECTRAL DENSITY (802.11a/b/g/n)

Test Requirements and limit, §15.247(e)

The peak power spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard – the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

We tested according to Procedure 10.2 in KDB 558074, issued 04/09/2013

The spectrum analyzer is set to:

Set analyzer center frequency to DTS channel center frequency.

Span = 1.5 times the DTS channel bandwidth.

 $RBW = 3 kHz \le RBW \le 100 kHz$.

VBW ≥ 3 x RBW.

Sweep = auto couple

Detector = peak

Trace Mode = max hold

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Sample Calculation

PSD = Reading Value + ATT loss + Cable loss(1 ea)

Output Power = -5 dBm + 10 dB + 0.8 dB = 5.8 dBm

Note:

- 1. Spectrum reading values are not plot data. The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
- 2. Spectrum offset = Attenuator loss + Cable loss
- 3. We apply to the offset in the 2.4 GHz and 5.8 GHz range that was rounded off to the closest tenth dB. So, 20.2 dB is offset for 2.4 GHz Band and 20.3 dB is offset for 5.8 GHz Band.

Actual value of loss for the attenuator and cable combination is below table.

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Band	Frequency(MHz)	Loss(dB)
2.4 GHz	2412	20.21
	2437	20.24
	2462	20.24
5.8 GHz	5745	20.31
	5755	20.30
	5785	20.29
	5795	20.26
	5825	20.28

(Actual value of loss for the attenuator and cable combination)

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TEST RESULTS

Conducted Power Density Measurements

	Channal		Test Result			
Frequency (MHz)	Channel No.	Mode	PSD (dBm)	Limit (dBm)	Pass/Fail	
2412	1		-12.792		Pass	
2437	6	802.11b	-11.791		Pass	
2462	11		-12.340		Pass	
2412	1		-15.536		Pass	
2437	6	802.11g	-16.113		Pass	
2462	11		-15.450		Pass	
2412	1	802.11n	-16.917		Pass	
2437	6	2.4 GHz Band	-17.194		Pass	
2462	11		-16.567		Pass	
5745	149		-15.318	8	Pass	
5785	157	802.11a	-14.998		Pass	
5825	165		-15.189		Pass	
5745	149	802.11n_20 MHz	-17.067		Pass	
5785	157	BW	-16.056		Pass	
5825	165	5.8 GHz Band	-16.841		Pass	
5755	151	802.11n_40 MHz	-17.127		Pass	
5795	159	BW 5.8 GHz Band	-19.183		Pass	

Note: In order to simplify the report, attached plots were only the highest PSD channels.

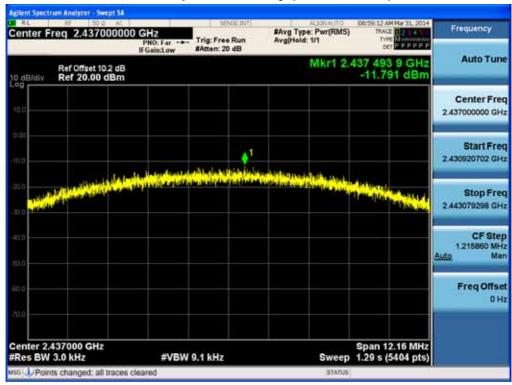
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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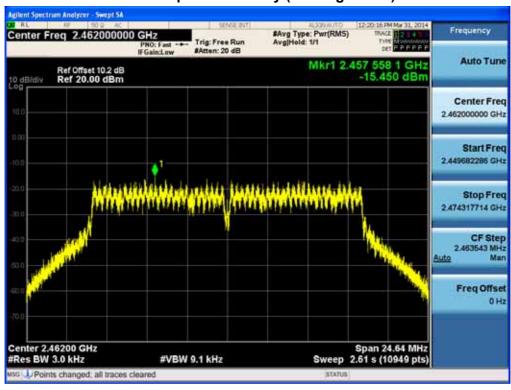
RESULT PLOTS

2.4 GHz Band

Power Spectral Density (802.11b-CH 6)



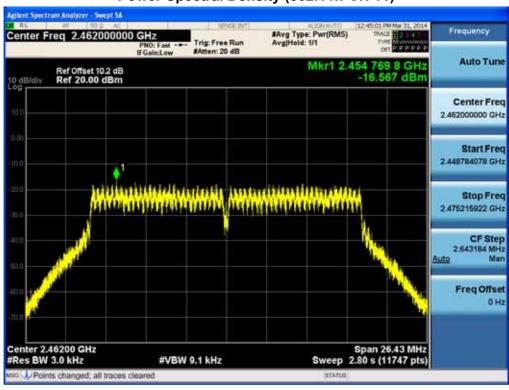
Power Spectral Density (802.11g-CH 11)



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Power Spectral Density (802.11n-CH 11)



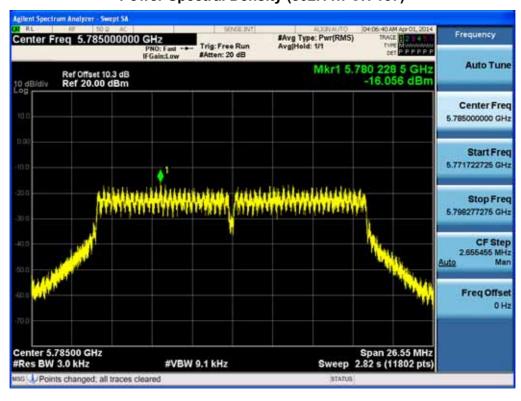
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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Power Spectral Density (802.11a-CH 157)



Power Spectral Density (802.11n-CH 157)

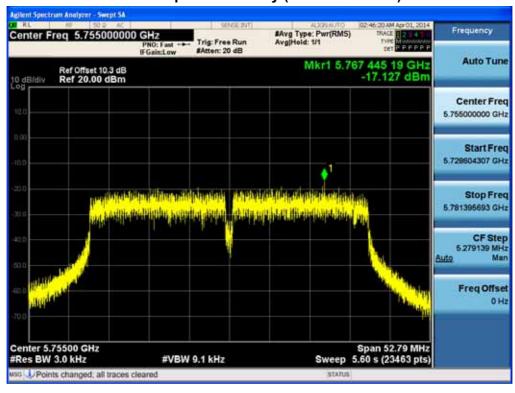


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40 MHz BW

Power Spectral Density (802.11n-CH 151)



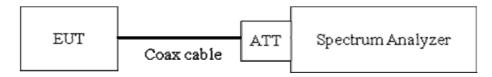


8.6 OUT OF BAND EMISSIONS AT THE BAND EDGE/ CONDUCTED SPURIOUS EMISSIONS Test Requirements and limit, §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.205(c)).

Limit: 20 dBc

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. (Procedure 11.0 in KDB 558074, issued 04/09/2013)

RBW = 100 kHz

VBW ≥ 3 x RBW

Set span to encompass the spectrum to be examined

Detector = Peak

Trace Mode = max hold

Sweep time = auto couple

Ensure that the number of measurement points ≥ Span/RBW

Allow trace to fully stabilize.

Use peak marker function to determine the maximum amplitude level.

Measurements are made over the 30 MHz to 10th harmonic range with the transmitter set to the lowest, middle, and highest channels.

Note:

- 1. The band edge results in plot is already including the actual values of loss for the attenuator and cable combination.
- 2. Spectrum offset = Attenuator loss + Cable loss
- 3. We apply to the offset in the 2.4 GHz and 5.8 GHz range that was rounded off to the closest tenth dB. So,

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20.2 dB is offset for 2.4 GHz Band and 20.3 dB is offset for 5.8 GHz Band.

Actual value of loss for the attenuator and cable combination is below table.

Band	Frequency(MHz)	Loss(dB)
	2412	20.21
2.4 GHz	2437	20.24
	2462	20.24
	5745	20.31
	5755	20.30
5.8 GHz	5785	20.29
	5795	20.26
	5825	20.28

(Actual value of loss for the attenuator and cable combination)

- 4. In case of conducted spurious emissions test, please check factors blow table.
- 5. In order to simplify the report, attached plots were only the worst case channel and data rate.

FACTORS FOR FREQUENCY

Freq(MHz)	Factor(dB)
30	19.95
100	20.01
200	20.03
300	20.04
400	20.05
500	20.04
600	20.03
700	20.09
800	20.10
900	20.08
1000	20.11
2000	20.25
2400*	20.19
2500*	20.26
3000	20.27
4000	20.22
5000	20.48
5700*	20.42
5800*	20.48
6000	20.48

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MCLCCCTIB	
7000	20.57
8000	20.45
9000	20.50
10000	20.64
11000	20.69
12000	20.75
13000	20.92
14000	21.90
15000	21.00
16000	21.03
17000	20.93
18000	20.96
19000	20.85
20000	22.11
21000	21.17
22000	20.99
23000	21.12
24000	21.10
25000	21.42
26000	21.28
27000	20.83
28000	21.03
29000	20.99
30000	22.08
31000	20.99
32000	21.32
33000	21.33
34000	22.62
35000	24.85
36000	24.78
37000	25.73
38000	25.81
39000	23.47
40000	24.89

Note: 1. '*' is fundamental frequency range.

2. Factor = Cable loss + Attenuator loss

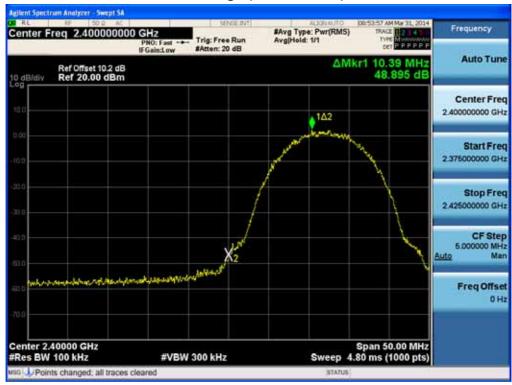
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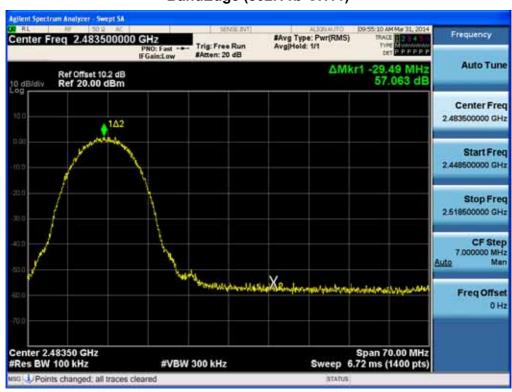
RESULT PLOTS

2.4 GHz Band

BandEdge (802.11b-CH1)



BandEdge (802.11b-CH11)



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BandEdge (802.11g-CH1)



BandEdge (802.11g-CH11)



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BandEdge (802.11n-CH1)



BandEdge (802.11n-CH11)



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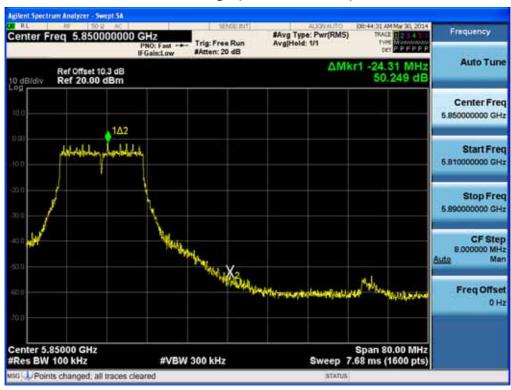


20 MHz BW

BandEdge (802.11a-CH 149)



BandEdge (802.11a-CH 165)



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BandEdge (802.11n-CH 149)



BandEdge (802.11n-CH 165)



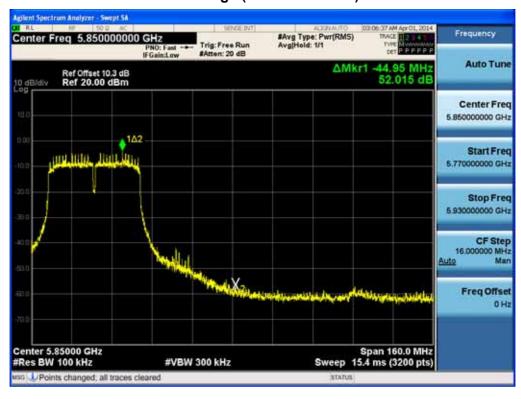
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700



BandEdge (802.11n-CH 151)



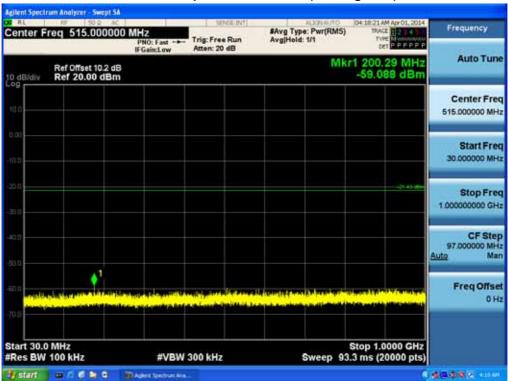
BandEdge (802.11n-CH 159)



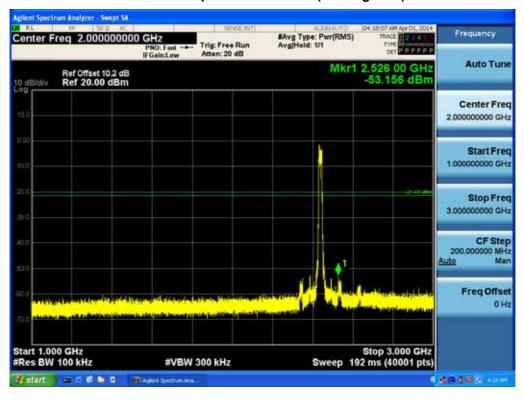
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700



Conducted Spurious Emission (802.11g-CH6)



1 GHz ~ 3 GHz

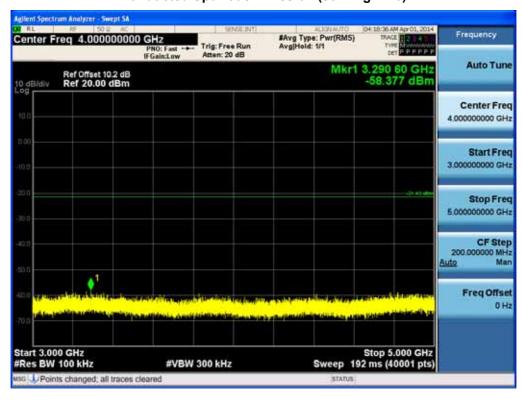


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700

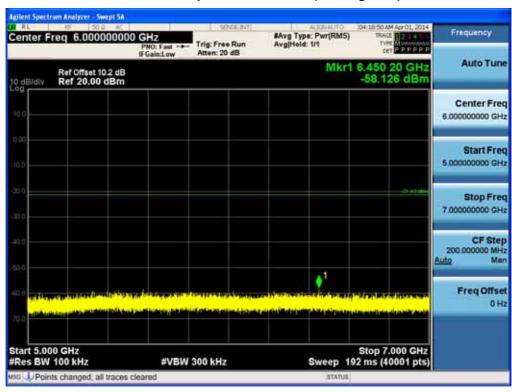


3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11g-CH6)



5 GHz ~ 7 GHz

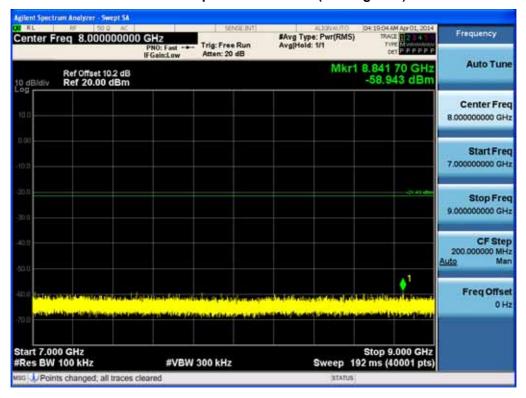


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700

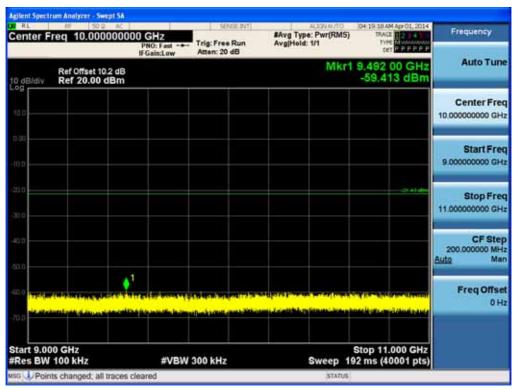


7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g-CH6)



9 GHz ~ 11 GHz

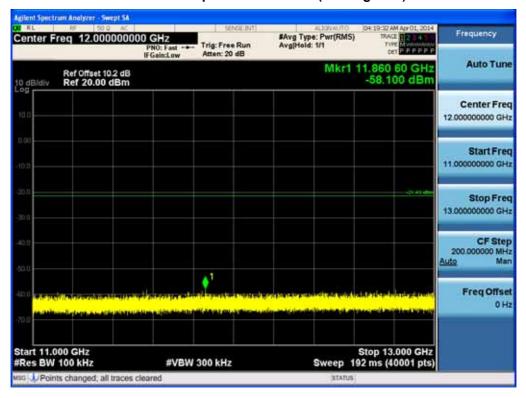


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700

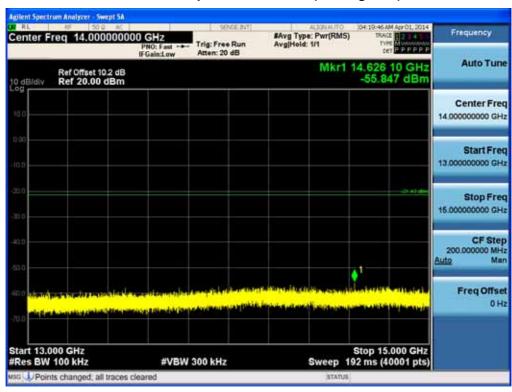


11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g-CH6)



13 GHz ~ 15 GHz

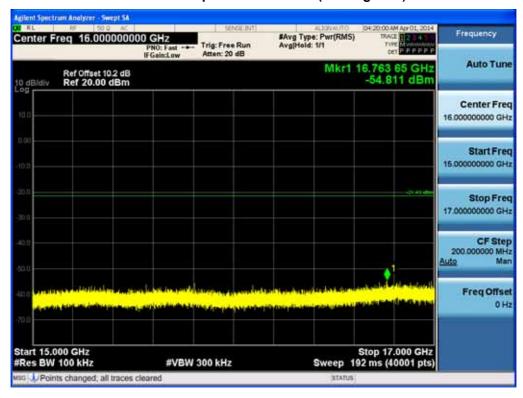


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700

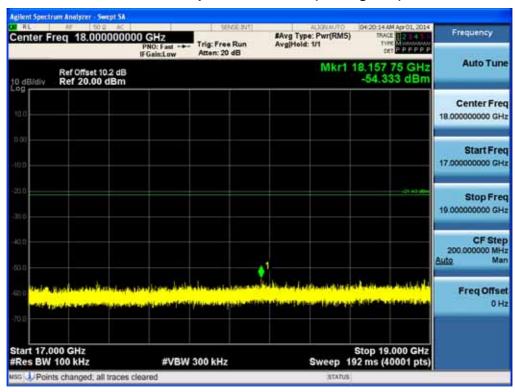


15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g-CH6)



17 GHz ~ 19 GHz

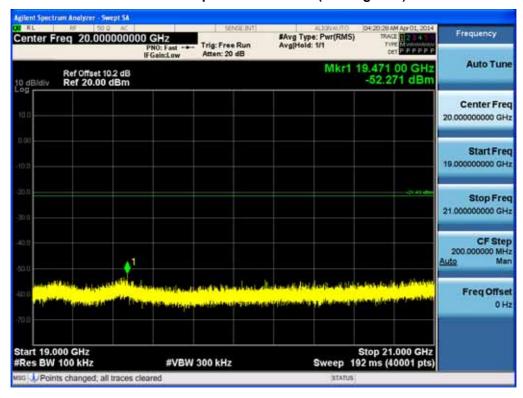


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700

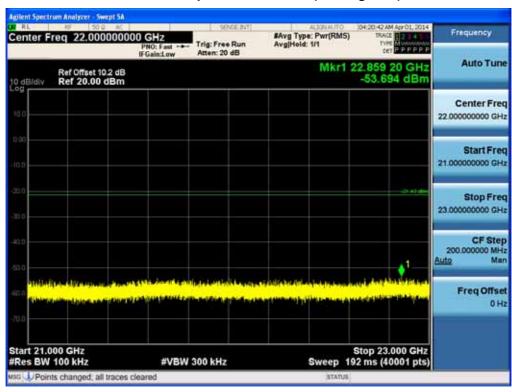


19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11g-CH6)



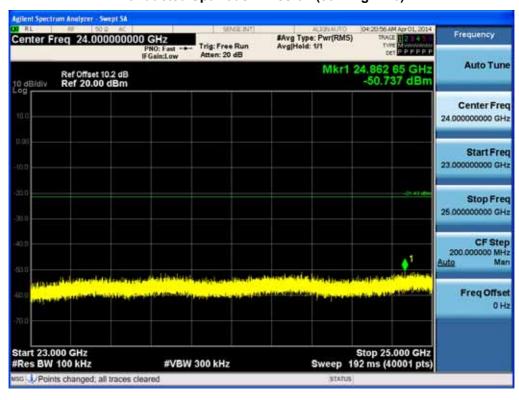
21 GHz ~ 23 GHz



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
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23 GHz ~ 25 GHz





Conducted Spurious Emission (802.11a-CH157)



1.6 GHz ~ 3.2 GHz

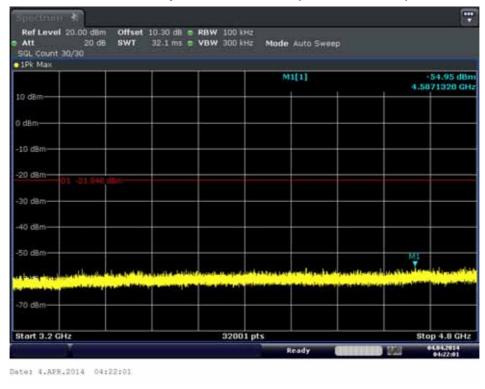
Conducted Spurious Emission (802.11a-CH157)





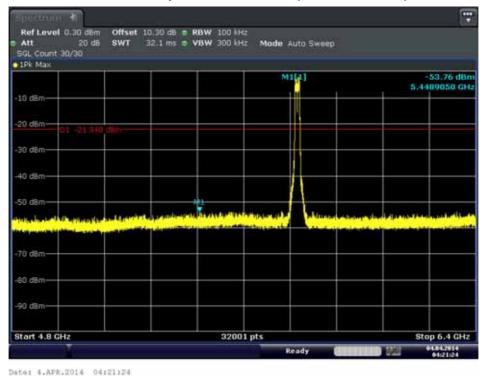
3.2 GHz ~ 4.8 GHz

Conducted Spurious Emission (802.11a-CH157)



4.8 GHz ~ 6.4 GHz

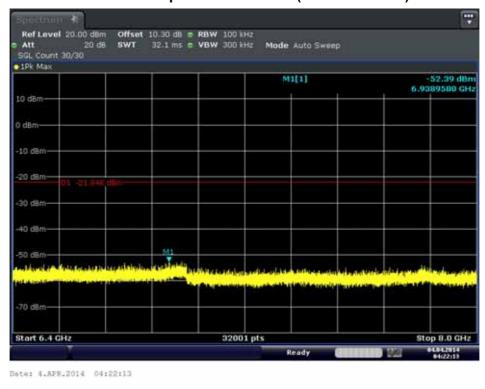
Conducted Spurious Emission (802.11a-CH157)





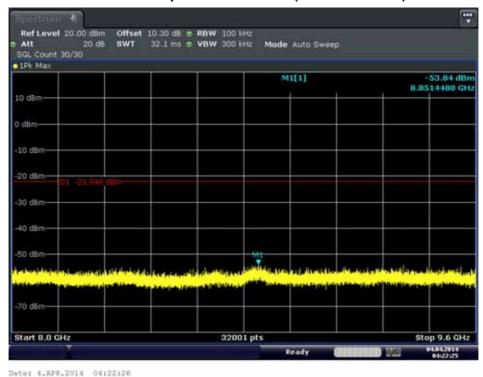
6.4 GHz ~ 8 GHz

Conducted Spurious Emission (802.11a-CH157)



8 GHz ~ 9.6 GHz

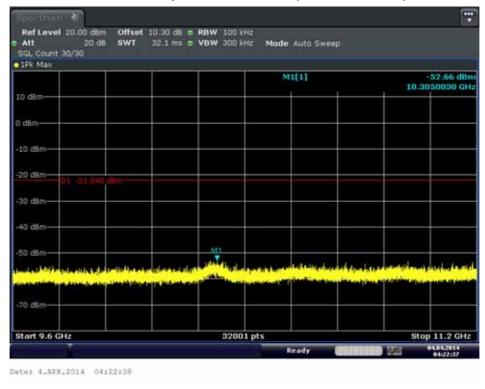
Conducted Spurious Emission(802.11a-CH157)





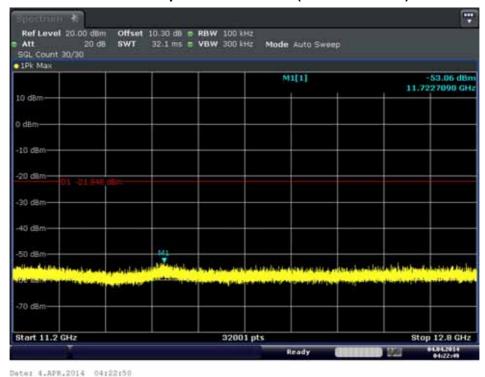
9.6 GHz ~ 11.2 GHz

Conducted Spurious Emission(802.11a-CH157)



11.2 GHz ~ 12.8 GHz

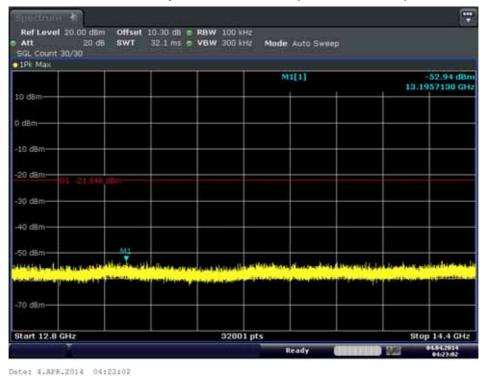
Conducted Spurious Emission (802.11a-CH157)





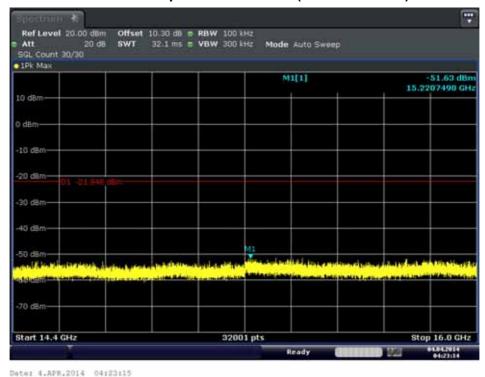
12.8 GHz ~ 14.4 GHz

Conducted Spurious Emission (802.11a-CH157)



14.4 GHz ~ 16 GHz

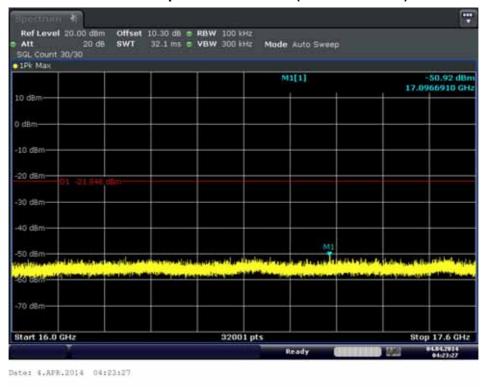
Conducted Spurious Emission (802.11a-CH157)





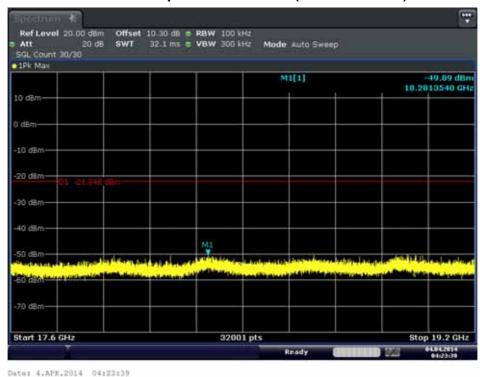
16 GHz ~ 17.6 GHz

Conducted Spurious Emission (802.11a-CH157)



17.6 GHz ~ 19.2 GHz

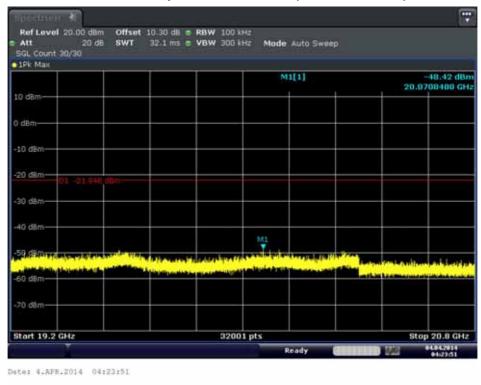
Conducted Spurious Emission (802.11a-CH157)





19.2 GHz ~ 20.8 GHz

Conducted Spurious Emission (802.11a-CH157)



20.8 GHz ~ 22.4 GHz

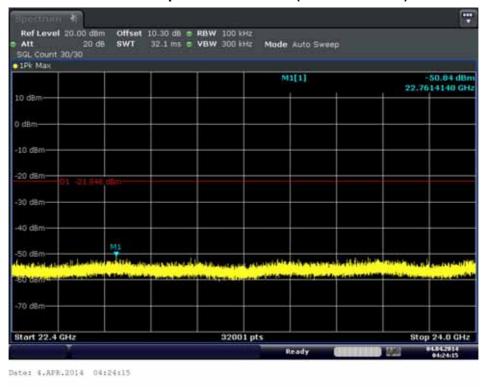
Conducted Spurious Emission (802.11a-CH157)





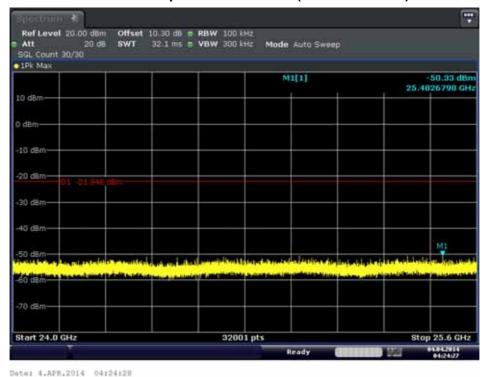
22.4 GHz ~ 24 GHz

Conducted Spurious Emission (802.11a-CH157)



24 GHz ~ 25.6 GHz

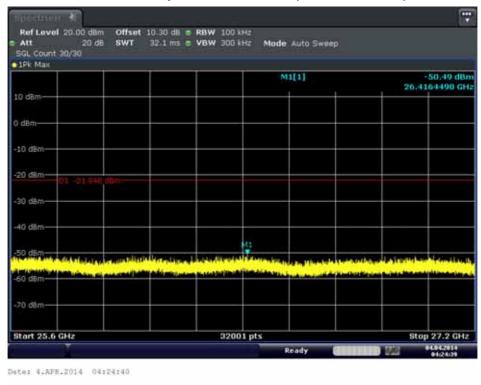
Conducted Spurious Emission (802.11a-CH157)





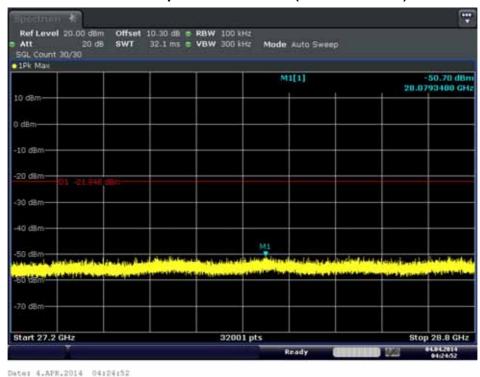
25.6 GHz ~ 27.2 GHz

Conducted Spurious Emission (802.11a-CH157)



27.2 GHz ~ 28.8 GHz

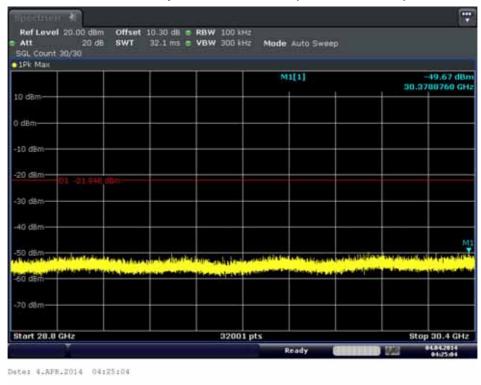
Conducted Spurious Emission (802.11a-CH157)





28.8 GHz ~ 30.4 GHz

Conducted Spurious Emission (802.11a-CH157)



30.4 GHz ~ 32 GHz

Conducted Spurious Emission (802.11a-CH157)



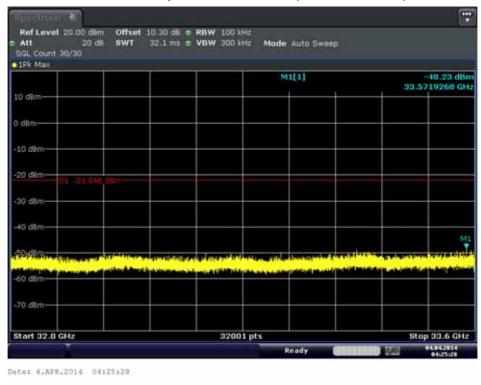
 FCC PT.15.247 TEST REPORT
 FCC & IC CERTIFICATION REPORT
 www.hct.co.kr

 Test Report No. HCT-R-1404-F008
 Date of Issue: April 09, 2014
 EUT Type: 2.4G/5G Dual WIFI Tablet
 FCC ID: ZNFV700
 IC: ZNFV700



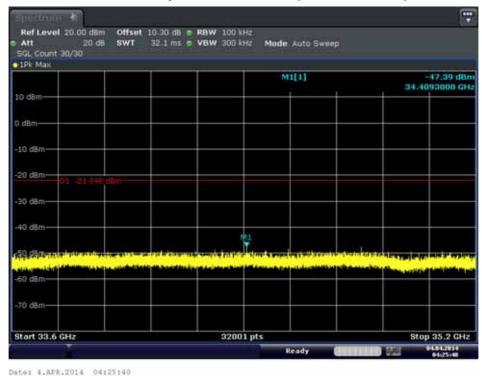
32 GHz ~ 33.6 GHz

Conducted Spurious Emission (802.11a-CH157)



33.6 GHz ~ 35.2 GHz

Conducted Spurious Emission (802.11a-CH157)



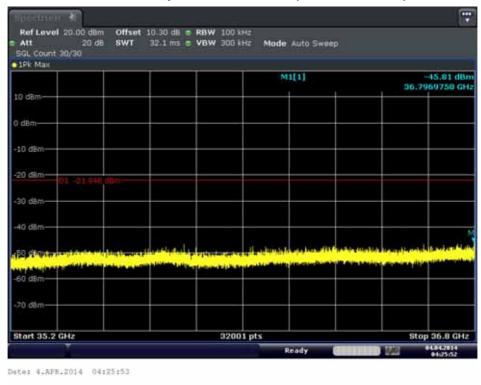
 FCC PT.15.247 TEST REPORT
 FCC & IC CERTIFICATION REPORT
 WWW.hct.co.kr

 Test Report No. HCT-R-1404-F008
 Date of Issue: April 09, 2014
 EUT Type: 2.4G/5G Dual WIFI Tablet
 FCC ID: ZNFV700
 IC: ZNFV700
 2703C-V700



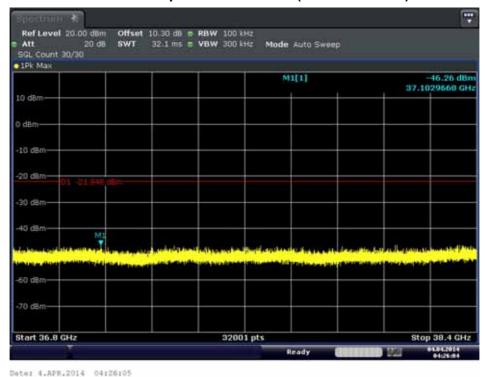
35.2 GHz ~ 36.8 GHz

Conducted Spurious Emission (802.11a-CH157)



36.8 GHz ~ 38.4 GHz

Conducted Spurious Emission (802.11a-CH157)



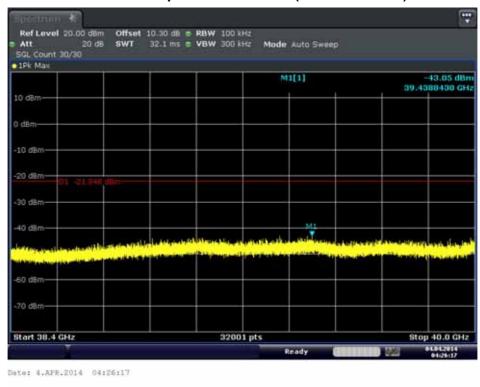
 FCC PT.15.247 TEST REPORT
 FCC & IC CERTIFICATION REPORT
 www.hct.co.kr

 Test Report No. HCT-R-1404-F008
 Date of Issue: April 09, 2014
 EUT Type: 2.4G/5G Dual WIFI Tablet
 FCC ID: ZNFV700
 IC: ZNFV700



38.4 GHz ~ 40 GHz

Conducted Spurious Emission (802.11a-CH157)



 FCC PT.15.247 TEST REPORT
 FCC & IC CERTIFICATION REPORT
 www.hct.co.kr

 Test Report No. HCT-R-1404-F008
 Date of Issue: April 09, 2014
 EUT Type: 2.4G/5G Dual WIFI Tablet
 FCC ID: ZNFV700
 IC: ZNFV700



8.7 RADIATED MEASUREMENT.

8.7.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209

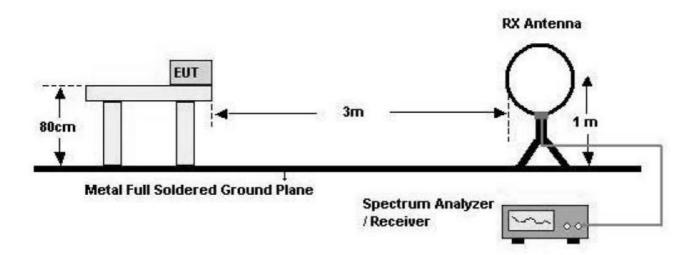
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700

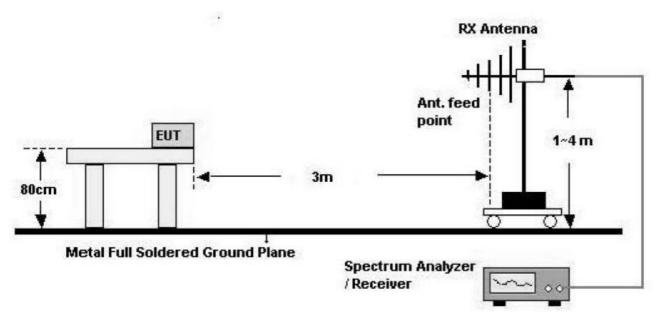


Test Configuration

Below 30 MHz



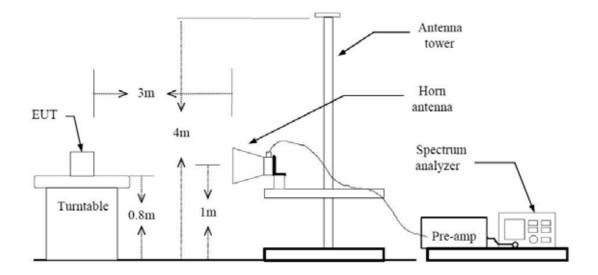
30 MHz - 1 GHz



FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT				
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Above 1 GHz



TEST PROCEDURE USED

Method 12.1 in KDB 558074, issued 04/09/2013

Spectrum Setting

- Peak

Peak emission levels are measured by setting the instrument as follows:

RBW = cf. Table 1.

VBW ≥ $3 \times RBW$.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes.

(Note that the required measurement time may be longer for low duty cycle applications).

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

- Average

Set RBW = 1 MHz

Set VBW ≥ 1/T.(at least 100 times less than the resolution bandwidth, but no less than 10 Hz.)

Select spectrum analyzer linear display mode.

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Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

- 1. We used the case 1 for 802.11b mode and the case 2 for802.11a/g/n_20/n_40 to perform the average filed strength measurements for RSE and radiated band edge test.
- 2. The actual setting value of VBW for 802.11a/g/n_20/n_40.

Mode	Worst Data rate (Mbps)	T _{on}	T _{total}	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
b	1	12.200	12.300	99.187	82	1000
g	6	2.010	2.130	94.366	498	1000
а	6	2.010	2.130	94.366	498	1000
n_20	6.5	1.870	1.970	94.924	535	1000
n_40	13.5	0.919	1.020	90.098	1088	3000

FCC PT.15.247 TEST REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700



TEST RESULTS

9 kHz - 30MHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin		
MHz	dB <i>μ</i> V/m	dBm /m	dBm	(H/V)	dB <i>μ</i> V/m	dB <i>μ</i> V/m	dB		
No Critical peaks found									

- 1. Measuring frequencies from 9 kHz to the 30MHz.
- 2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- 3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 4. Limit line = specific Limits (dBuV) + Distance extrapolation factor
- 5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700



TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin	
MHz	dB <i>μ</i> V/m	dBm /m	dBm	(H/V)	dB <i>μ</i> V/m	dB <i>μ</i> V/m	dB	
No Critical peaks found								

- 1. Measuring frequencies from 30 MHz to the 1 GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
- 3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700



Above 1 GHz

Band: 2.4 GHz
Operation Mode: 802.11 b
Transfer Rate: 1 Mbps
Operating Frequency 2412
Channel No. 01 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4824	49.71	-1.98	V	47.73	73.98	26.25	PK
4824	39.33	-1.98	V	37.35	53.98	16.63	AV
7236	46.40	7.60	V	54.00	73.98	19.98	PK
7236	32.16	7.60	V	39.76	53.98	14.22	AV
4824	50.86	-1.98	Н	48.88	73.98	25.10	PK
4824	40.23	-1.98	Н	38.25	53.98	15.73	AV
7236	46.33	7.60	Н	53.93	73.98	20.05	PK
7236	32.43	7.60	Н	40.03	53.98	13.95	AV

Band: 2.4 GHz
Operation Mode: 802.11 b
Transfer Rate: 1 Mbps
Operating Frequency 2437
Channel No. 06 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4874	50.21	-1.92	V	48.29	73.98	25.69	PK
4874	38.25	-1.92	V	36.33	53.98	17.65	AV
7311	47.49	7.38	V	54.87	73.98	19.11	PK
7311	32.82	7.38	V	40.20	53.98	13.78	AV
4874	50.58	-1.92	Н	48.66	73.98	25.32	PK
4874	39.01	-1.92	Н	37.09	53.98	16.89	AV
7311	47.18	7.38	Н	54.56	73.98	19.42	PK
7311	33.19	7.38	Н	40.57	53.98	13.41	AV

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:			
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700			



Band: 2.4 GHz
Operation Mode: 802.11 b
Transfer Rate: 1 Mbps
Operating Frequency 2462
Channel No. 11 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4924	48.75	-1.93	V	46.82	73.98	27.16	PK
4924	36.05	-1.93	V	34.12	53.98	19.86	AV
7386	45.20	7.28	٧	52.48	73.98	21.50	PK
7386	31.92	7.28	V	39.20	53.98	14.78	AV
4924	50.06	-1.93	Н	48.13	73.98	25.85	PK
4924	37.69	-1.93	Н	35.76	53.98	18.22	AV
7386	45.65	7.28	Н	52.93	73.98	21.05	PK
7386	32.16	7.28	Н	39.44	53.98	14.54	AV

- 11. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. We have done 802.11b mode and all data rate. Worst data rate is the lowest data of each mode.
- 6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:			
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700			



Band: 2.4 GHz 802.11 g Operation Mode: Transfer Rate: 6 Mbps Operating Frequency 2412 Channel No.

01 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4824	49.00	-1.98	V	47.02	73.98	26.96	PK
4824	35.48	-1.98	V	33.50	53.98	20.48	AV
7236	45.86	7.60	V	53.46	73.98	20.52	PK
7236	32.09	7.60	V	39.69	53.98	14.29	AV
4824	50.06	-1.98	Н	48.08	73.98	25.90	PK
4824	35.69	-1.98	Н	33.71	53.98	20.27	AV
7236	46.08	7.60	Н	53.68	73.98	20.30	PK
7236	32.38	7.60	Н	39.98	53.98	14.00	AV

Band: 2.4 GHz Operation Mode: 802.11 g Transfer Rate: 6 Mbps Operating Frequency 2437 Channel No. 06 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4874	49.51	-1.92	V	47.59	73.98	26.39	PK
4874	35.89	-1.92	V	33.97	53.98	20.01	AV
7311	46.69	7.38	V	54.07	73.98	19.91	PK
7311	32.57	7.38	V	39.95	53.98	14.03	AV
4874	49.88	-1.92	Н	47.96	73.98	26.02	PK
4874	36.10	-1.92	Н	34.18	53.98	19.80	AV
7311	46.71	7.38	Н	54.09	73.98	19.89	PK
7311	32.97	7.38	Н	40.35	53.98	13.63	AV

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:			
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700			



Band: 2.4 GHz
Operation Mode: 802.11 g
Transfer Rate: 6 Mbps
Operating Frequency 2462
Channel No. 11 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4924	49.18	-1.93	V	47.25	73.98	26.73	PK
4924	35.23	-1.93	V	33.30	53.98	20.68	AV
7386	44.91	7.28	V	52.19	73.98	21.79	PK
7386	31.84	7.28	V	39.12	53.98	14.86	AV
4924	49.58	-1.93	Н	47.65	73.98	26.33	PK
4924	35.48	-1.93	Н	33.55	53.98	20.43	AV
7386	44.88	7.28	Н	52.16	73.98	21.82	PK
7386	31.97	7.28	Н	39.25	53.98	14.73	AV

- 11. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. We have done 802.11g mode and all data rate. Worst data rate is the lowest data of each mode.
- 6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:			
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700			



Band: 2.4 GHz

Operation Mode: 802.11 n

Transfer Rate: 6.5 Mbps

Operating Frequency 2412

Channel No. 01 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4824	49.07	-1.98	V	47.09	73.98	26.89	PK
4824	35.31	-1.98	V	33.33	53.98	20.65	AV
7236	45.71	7.60	V	53.31	73.98	20.67	PK
7236	32.07	7.60	V	39.67	53.98	14.31	AV
4824	49.79	-1.98	Н	47.81	73.98	26.17	PK
4824	35.51	-1.98	Н	33.53	53.98	20.45	AV
7236	46.52	7.60	Н	54.12	73.98	19.86	PK
7236	32.28	7.60	Н	39.88	53.98	14.10	AV

Band: 2.4 GHz

Operation Mode: 802.11 n

Transfer Rate: 6.5 Mbps

Operating Frequency 2437

Channel No. 06 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4874	49.26	-1.92	V	47.34	73.98	26.64	PK
4874	35.91	-1.92	V	33.99	53.98	19.99	AV
7311	45.73	7.38	V	53.11	73.98	20.87	PK
7311	32.18	7.38	V	39.56	53.98	14.42	AV
4874	49.48	-1.92	Н	47.56	73.98	26.42	PK
4874	36.08	-1.92	Н	34.16	53.98	19.82	AV
7311	45.84	7.38	Н	53.22	73.98	20.76	PK
7311	32.64	7.38	Н	40.02	53.98	13.96	AV

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:			
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700			



Band: 2.4 GHz
Operation Mode: 802.11 n
Transfer Rate: 6.5 Mbps
Operating Frequency 2462
Channel No. 11 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4924	48.99	-1.93	V	47.06	73.98	26.92	PK
4924	34.56	-1.93	V	32.63	53.98	21.35	AV
7386	44.84	7.28	V	52.12	73.98	21.86	PK
7386	31.51	7.28	V	38.79	53.98	15.19	AV
4924	49.48	-1.93	Н	47.55	73.98	26.43	PK
4924	34.92	-1.93	Н	32.99	53.98	20.99	AV
7386	44.97	7.28	Н	52.25	73.98	21.73	PK
7386	31.58	7.28	Н	38.86	53.98	15.12	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. We have done 802.11n mode and all data rate. Worst data rate is the lowest data of each mode.
- 6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:		
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700		



Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5745 MHz

Channel No. 149 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
11490	63.57	-6.10	V	57.47	73.98	16.51	PK
11490	49.67	-6.10	V	43.57	53.98	10.41	AV
11490	63.49	-6.10	Н	57.39	73.98	16.59	PK
11490	49.53	-6.10	Н	43.43	53.98	10.55	AV

Band: 5.8 GHz

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
11570	63.55	-5.57	V	57.98	73.98	16.00	PK
11570	49.82	-5.57	V	44.25	53.98	9.73	AV
11570	63.42	-5.57	Н	57.85	73.98	16.13	PK
11570	49.51	-5.57	Н	43.94	53.98	10.04	AV

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:			
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700			



Band: 5.8 GHz
Operation Mode: 802.11 a
Transfer Rate: 6 Mbps

Operating Frequency 5825 MHz

Channel No. 165 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
11650	63.64	-6.63	V	57.01	73.98	16.97	PK
11650	49.79	-6.63	V	43.16	53.98	10.82	AV
11650	63.48	-6.63	Н	56.85	73.98	17.13	PK
11650	49.53	-6.63	Н	42.90	53.98	11.08	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. We have done 802.11a mode and all data rate. Worst data rate is the lowest data of each mode
- 6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:		
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700		



Operation Mode: 802.11 n_20 MHz BW

Transfer Rate: 6.5 Mbps

Operating Frequency 5745 MHz

Channel No. 149 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
11490	63.29	-6.10	V	57.19	73.98	16.79	PK
11490	49.27	-6.10	V	43.17	53.98	10.81	AV
11490	63.24	-6.10	Н	57.14	73.98	16.84	PK
11490	49.21	-6.10	Н	43.11	53.98	10.87	AV

Band: 5.8 GHz

Operation Mode: 802.11 n_20 MHz BW

Transfer Rate: 6.5 Mbps

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
11570	63.37	-5.57	V	57.80	73.98	16.18	PK
11570	49.31	-5.57	V	43.74	53.98	10.24	AV
11570	63.54	-5.57	Н	57.97	73.98	16.01	PK
11570	49.30	-5.57	Н	43.73	53.98	10.25	AV

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:			
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700			



Operation Mode: 802.11 n_20 MHz BW

Transfer Rate: 6.5 Mbps

Operating Frequency 5825 MHz

Channel No. 165 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
11650	63.57	-6.63	V	56.94	73.98	17.04	PK
11650	49.29	-6.63	V	42.66	53.98	11.32	AV
11650	63.48	-6.63	Н	56.85	73.98	17.13	PK
11650	49.26	-6.63	Н	42.63	53.98	11.35	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. We have done 802.11n_20 MHz BW mode and all data rate. Worst data rate is the lowest data of each mode
- 6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:			
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700			



Operation Mode: 802.11 n_40 MHz BW

Transfer Rate: 13.5 Mbps

Operating Frequency 5755 MHz

Channel No. 151 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
11510	62.81	-6.26	V	56.55	73.98	17.43	PK
11510	49.46	-6.26	V	43.20	53.98	10.78	AV
11510	62.67	-6.26	Н	56.41	73.98	17.57	PK
11510	49.14	-6.26	Н	42.88	53.98	11.10	AV

Band: 5.8 GHz

Operation Mode: 802.11 n_40 MHz BW

Transfer Rate: 13.5 Mbps

Operating Frequency 5795 MHz

Channel No. 159 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
11590	62.90	-5.92	V	56.98	73.98	17.00	PK
11590	49.43	-5.92	V	43.51	53.98	10.47	AV
11590	62.72	-5.92	Н	56.80	73.98	17.18	PK
11590	49.05	-5.92	Н	43.13	53.98	10.85	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. We have done 802.11n_40 MHz BW mode and all data rate. Worst data rate is the lowest data of each mode
- 6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:		
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700		



8.7.2 RECEIVER SPURIOUS EMISSIONS

FCC Rule(s) §15.109 (see Table Below)

Test Requirements: Emission Level shall not exceed §15.109 limits

Operating conditions: Under normal test conditions

Method of testing: Radiated

F < 1 GHz: RBW: 120 kHz, VBW: 300 kHz (Quasi Peak)

S/A. Settings:

F > 1 GHz: RBW: 1 MHz, VBW: 1 MHz (Peak)

Mode of operation: Receive

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
30 – 88	100 (40 dBuV)	3
88 - 216	150 (43.5 dBuV))	3
216 – 960	200 (46 dBuV)	3
Above 960	500 (54 dBuV)	3

Operation Mode: Receive:

30 MHz ~ 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dΒμV	dB /m	dB	(H/V)	dB <i>μ</i> V/m	dB <i>μ</i> V/m	dB
No Critical peaks found							

Above 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB <i>μ</i> V	dB /m	dB	(H/V)	dB <i>μ</i> V/m	dB <i>μ</i> V/m	dB
No Critical peaks found							

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:		
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700		



8.7.3 RADIATED RESTRICTED BAND EDGES

Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

Band: 2.4 GHz
Operation Mode: 802.11g
Transfer Rate: 6 Mbps
Operating Frequency 2412 MHz, 2462 MHz

Channel No. 01 Ch, 11 Ch

Frequency	Reading	AN.+CL	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
2390.0	25.33	31.47	Н	56.80	73.98	17.18	PK
2390.0	12.56	31.47	Н	44.03	53.98	9.95	AV
2390.0	26.13	31.47	V	57.60	73.98	16.38	PK
2390.0	12.32	31.47	V	43.79	53.98	10.19	AV
2483.5	27.38	31.46	Н	58.84	73.98	15.14	PK
2483.5	13.50	31.46	Н	44.96	53.98	9.02	AV
2483.5	26.19	31.46	V	57.65	73.98	16.33	PK
2483.5	12.90	31.46	V	44.36	53.98	9.62	AV

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:		
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700		



Band: 2.4 GHz

Operation Mode: 802.11b

Transfer Rate: 1 Mbps

Operating Frequency 2412 MHz, 2462 MHz

Channel No. 01 Ch, 11 Ch

Frequency	Reading	AN.+CL	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
2390.0	26.03	31.47	Н	57.50	73.98	16.48	PK
2390.0	12.92	31.47	Н	44.39	53.98	9.59	AV
2390.0	25.64	31.47	V	57.11	73.98	16.87	PK
2390.0	12.32	31.47	V	43.79	53.98	10.19	AV
2483.5	27.04	31.46	Н	58.50	73.98	15.48	PK
2483.5	13.14	31.46	Н	44.60	53.98	9.38	AV
2483.5	25.76	31.46	٧	57.22	73.98	16.76	PK
2483.5	12.53	31.46	V	43.99	53.98	9.99	AV

Band: 2.4 GHz

Operation Mode: 802.11n

Transfer Rate: 6.5 Mbps

Operating Frequency 2412 MHz, 2462 MHz

Channel No. 01 Ch, 11 Ch

Frequency	Reading	AN.+CL	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
2390.0	26.88	31.47	Н	58.35	73.98	15.63	PK
2390.0	12.97	31.47	Н	44.44	53.98	9.54	AV
2390.0	38.84	31.47	٧	70.31	73.98	3.67	PK
2390.0	15.78	31.47	V	47.25	53.98	6.73	AV
2483.5	39.48	31.46	Н	70.94	73.98	3.04	PK
2483.5	18.37	31.46	Н	49.83	53.98	4.15	AV
2483.5	38.59	31.46	V	70.05	73.98	3.93	PK
2483.5	15.88	31.46	V	47.34	53.98	6.64	AV

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:		
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700		



- 2. We have done 802.11b/g/n mode and all data rate. Worst data rate is the lowest data of each mode.
- 3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700



8.8 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Francisco Denne (MIII)	Limits (dBμV)				
Frequency Range (MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
- 2. The EUT is connected via LISN to a test power supply.
- 3. The measurement results are obtained as described below:
- 4. Detectors Quasi Peak and Average Detector.
- 5. We are performed the AC Power Line Conducted Emission test for 54 Mbps, Ch.6 and 802.11g. Because 802.11g mode is worst case.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700



RESULT PLOTS

Conducted Emissions (Line 1)

1/2 EMI Auto Test(2)

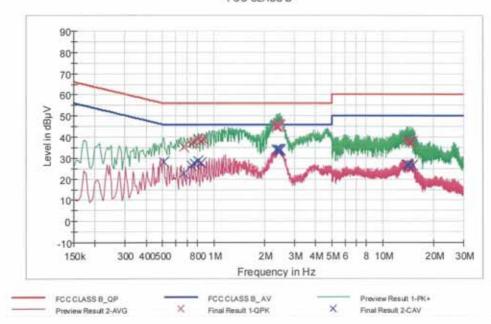
HCT TEST Report

Common Information

EUT: Manufacturer: LG-V700 LG

SHIELD ROOM Test Site: Operating Conditions: Operator Name: WLAN MODE (2.4GHz) JC SHIN

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.666500	35.5	9.000	Off	L1	9.7	20.5	56.0
0.738500	37.1	9.000	Off	L1	9.7	18.9	56.0
0.770000	37,4	9.000	Off	L1	9.7	18.6	56.0
0.810500	39.1	9.000	Off	L1	9.7	16.9	56.0
0.851000	38.4	9.000	Off	L1	9.7	17.6	56.0
0.878000	38.9	9.000	Off	L1	9.7	17.1	56.0
2.358500	44.9	9.000	Off	L1	9.9	11.1	56.0
2.376500	45.4	9.000	Off	L1	9.9	10.6	56.0
2.394500	45.3	9.000	Off	L1	9.9	10.7	56.0
2,426000	45.2	9.000	Off	L1	9.9	10.8	56.0
2,457500	45.7	9.000	Off.	L1	9.9	10.3	56.0
2.484500	45.4	9.000	Off	L1	9.9	10.6	56.0
13.847000	38.2	9.000	Off	L1	10.6	21.8	60.0
14.013500	38.7	9.000	Off	L1	10.6	21.3	60.0
14.067500	38.6	9.000	Off	L1	10.6	21.4	60.0
14.081000	38.7	9.000	Off	L1	10.6	21.3	60.0
14,486000	37.4	9.000	Off	L1	10.6	22.6	60.0

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Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700



EMI Auto Test(2) 2 / 2

	Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1	15.089000	37.7	9.000	Off	L1	10.7	22.3	60.0

Final Result 2

Frequency (MHz)	(dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.509000	28.3	9.000	Off	L1	9.7	17.7	46.0
0.666500	22.9	9.000	Off	L1	9.7	23.1	46.0
0.738500	26.4	9.000	Off	L1	9.7	19.6	46.0
0.774500	27.4	9.000	Off	L1	9.7	18.6	46.0
0.810500	28.6	9.000	Off	L1	9.7	17.4	46.0
0.846500	27.9	9,000	Off	L1	9.7	18.1	46.0
2.358500	34.0	9.000	Off	L1	9.9	12.0	46.0
2.376500	33.8	9.000	Off	L1	9.9	12.2	46.0
2.394500	34.1	9.000	Off	L1	9.9	11.9	46.0
2,426000	34.3	9.000	Off	L1	9.9	11.7	46.0
2.484500	33.7	9.000	Off	L1	9.9	12.3	46.0
2.498000	34.1	9.000	Off	L1	9.9	11.9	46.0
13.847000	27.0	9.000	Off	L1	10.6	23.0	50.0
14.013500	26.9	9.000	Off	L1	10.6	23.1	50.0
14.067500	27.1	9.000	Off	L1	10.6	22.9	50.0
14.076500	26.9	9.000	Off	L1	10.6	23.1	50.0
14.220500	26.7	9.000	Off	L1	10.6	23.3	50.0
15.089000	26.7	9.000	Off	L1	10.7	23.3	50.0

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Conducted Emissions (Line 2)

EMI Auto Test(2) 1/2

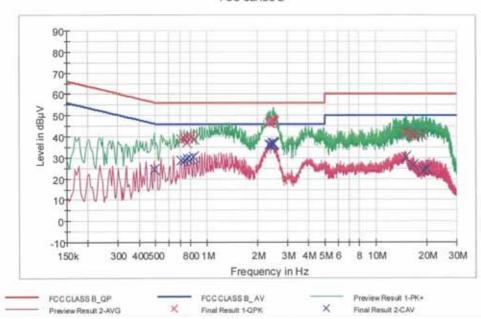
HCT TEST Report

Common Information

EUT: LG-V700 Manufacturer: LG

Test Site: SHIELD ROOM
Operating Conditions: WLAN MODE (2.4GHz)
Operator Name: JC SHIN

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.707000	38.8	9.000	Off	N	9.7	17.2	56.0
0.743000	39.1	9,000	Off	N	9.7	16.9	56.0
0.765500	37.1	9.000	Off	N	9,7	18.9	56.0
0.774500	39.5	9.000	Off	N	9.7	16.5	56.0
0.806000	39.9	9.000	Off	N	9.8	16.1	56.0
0.846500	38.7	9.000	Off	N	9.8	17.3	56.0
2.358500	46.9	9.000	Off	N	9.9	9.1	56.0
2.390000	46.8	9.000	Off	N	9.9	9.2	56.0
2.457500	48.0	9.000	Off	N	9.9	8.0	56.0
2,489000	47.2	9.000	Off	N	9.9	8.8	56.0
2.498000	47.6	9.000	Off	N	9.9	8.4	56.0
2.525000	46.8	9.000	Off	N	9.9	9.2	56.0
15.066500	42.1	9.000	Off	N	10.6	17.9	60.0
15.098000	42.1	9.000	Off	N	10.6	17.9	60.0
15.255500	41.2	9.000	Off	N	10.6	18.8	60.0
16.686500	41.3	9.000	Off	N	10.7	18.7	60.0
16.781000	40.1	9.000	Off	N	10.7	19.9	60.0

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EMI Auto Test(2)

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Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
18.918500	40.9	9,000	Off.	N	10.8	19.1	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.492000	24.4	9.000	Off	N	9.7	21.7	46.1
0.707000	28.6	9.000	Off	N	9.7	17.4	46.0
0.743000	28.5	9.000	Off	N	9.7	17.5	46.0
0.774500	29.6	9.000	Off	N	9.7	16.4	46.0
0.806000	29.6	9.000	Off	N	9.8	16.4	46.0
0.842000	30.5	9.000	Off	N	9.8	15.5	46.0
2.358500	36.2	9.000	Off	N	9.9	9.8	46.0
2.390000	36.4	9.000	Off	N	9.9	9.6	46.0
2.457500	37.2	9.000	Off	N.	9.9	8.8	46.0
2.489000	37.0	9.000	Off	N	9.9	9.0	46.0
2.498000	36.2	9.000	Off	N:	9.9	9.8	46.0
2.525000	36.4	9.000	Off	N	9.9	9.6	46.0
15.044000	30.3	9.000	Off	N	10.6	19.7	50.0
15.098000	30.5	9,000	Off	N	10.6	19.5	50.0
15,120500	30.2	9.000	Off	N	10.6	19.8	50.0
16,686500	26.5	9.000	Off	N	10.7	23.5	50.0
19.161500	24.2	9.000	Off	N	10.8	25.8	50.0
19.859000	24.9	9.000	Off	N	10.8	25.1	50.0

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9. LIST OF TEST EQUIPMENT

9.1 LIST OF TEST EQUIPMENT(Conducted Test)

Manufacturer	Model / Equipment	Calibration Interval	Calibration Due	Serial No.
		interval	Due	
Rohde & Schwarz	ENV216/ LISN	Annual	01/29/2015	100073
Agilent	E4440A/ Spectrum Analyzer	Annual	04/25/2014	US45303008
Agilent	N9020A/ SIGNAL ANALYZER	Annual	05/14/2014	MY51110063
Agilent	N1911A/Power Meter	Annual	01/24/2015	MY45100523
Agilent	N1921A /POWER SENSOR	Annual	07/11/2014	MY45241059
Hewlett Packard	11636B/Power Divider	Annual	10/22/2014	11377
Agilent	87300B/Directional Coupler	Annual	12/18/2014	3116A03621
Hewlett Packard	11667B / Power Splitter	Annual	05/29/2014	05001
DIGITAL	EP-3010 /DC POWER SUPPLY	Annual	10/29/2014	3110117
ITECH	IT6720 / DC POWER SUPPLY	Annual	11/05/2014	010002156287001199
TESCOM	TC-3000C / BLUETOOTH TESTER	Annual	04/24/2014	3000C000276
Rohde & Schwarz	CBT / BLUETOOTH TESTER	Annual	04/25/2014	100422
Agilent	8493C / Attenuator(10 dB)	Annual	07/24/2014	76649
WEINSCHEL	2-3 / Attenuator(3 dB)	Annual	10/28/2014	BR0617

FCC PT.15.247 TEST REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700



9.2 LIST OF TEST EQUIPMENT(Radiated Test)

Manufacturer	Model / Equipment	Calibration Interval	Calibration Due	Serial No.
Schwarzbeck	VULB 9160/ TRILOG Antenna	Biennial	12/17/2014	3150
Rohde & Schwarz	ESCI / EMI TEST RECEIVER	Annual	01/24/2015	100584
HD	MA240/ Antenna Position Tower	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	Annual	09/10/2014	10094
CERNEX	CBL18265035 / POWER AMP	Annual	07/24/2014	22966
CERNEX	CBL26405040 / POWER AMP	Annual	04/16/2014	19660
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	07/05/2015	1151
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	Biennial	10/30/2014	BBHA9170124
Rohde & Schwarz	FSP / Spectrum Analyzer	Annual	01/24/2015	839117/011
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	Annual	02/03/2015	F6
Wainwright Instrument	WHNX6.0/26.5G-6SS / High Pass Filter	Annual	04/16/2014	1
Wainwright Instrument	WHNX7.0/18G-8SS / High Pass Filter	Annual	04/16/2014	29
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter	Annual	06/24/2014	1
TESCOM	TC-3000C / BLUETOOTH TESTER	Annual	04/24/2014	3000C000276
Rohde & Schwarz	CBT / BLUETOOTH TESTER	Annual	04/25/2014	100422
Rohde & Schwarz	LOOP ANTENNA	Biennial	08/14/2014	100179
CERNEX	CBL06185030 / POWER AMP	Annual	07/24/2014	22965
CERNEX	CBLU1183540 / POWER AMP	Annual	07/24/2014	22964

FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID:	IC:
HCT-R-1404-F008	April 09, 2014		ZNFV700	2703C-V700