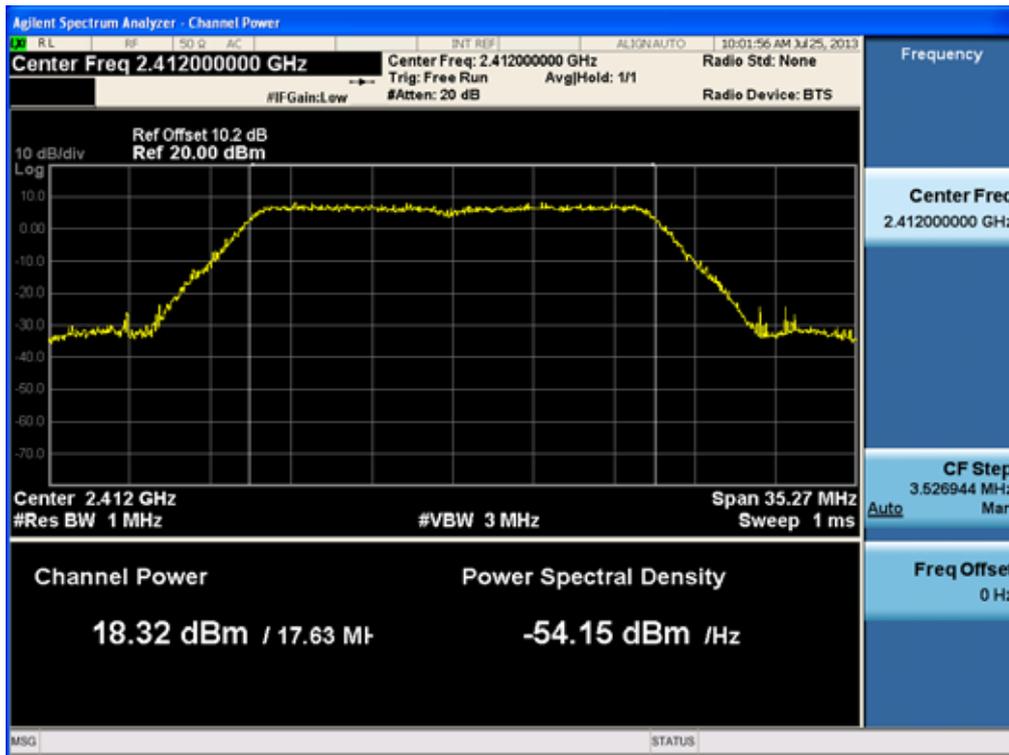
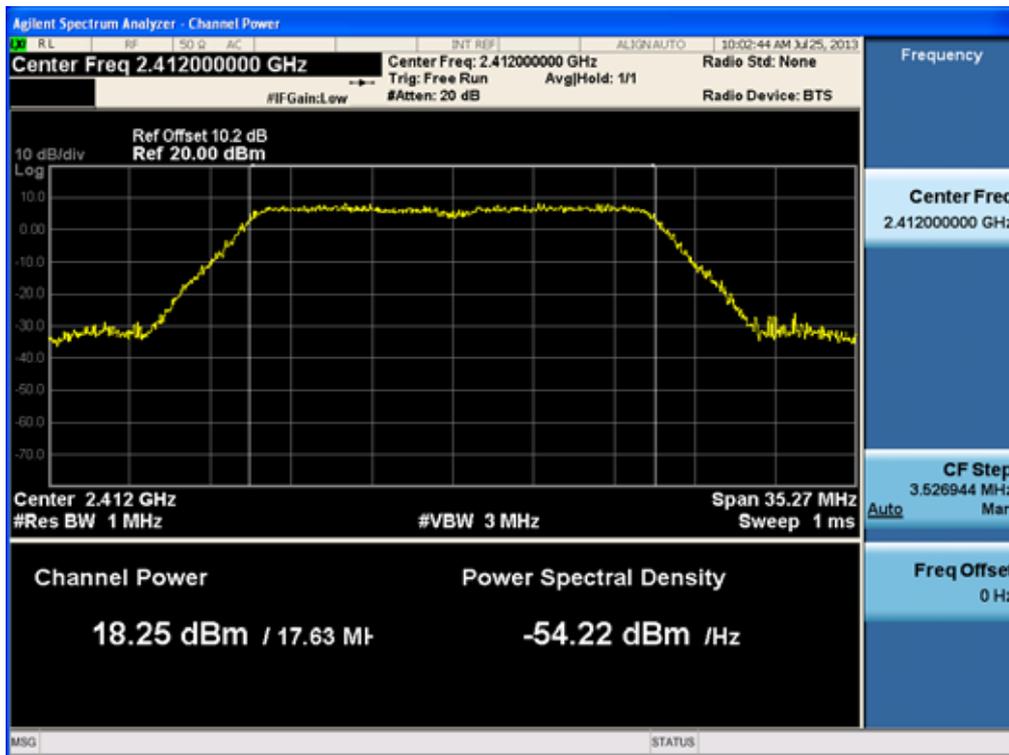


Conducted Output Power (802.11n-CH 1) 58.5Mbps



Conducted Output Power (802.11n-CH 1) 65Mbps



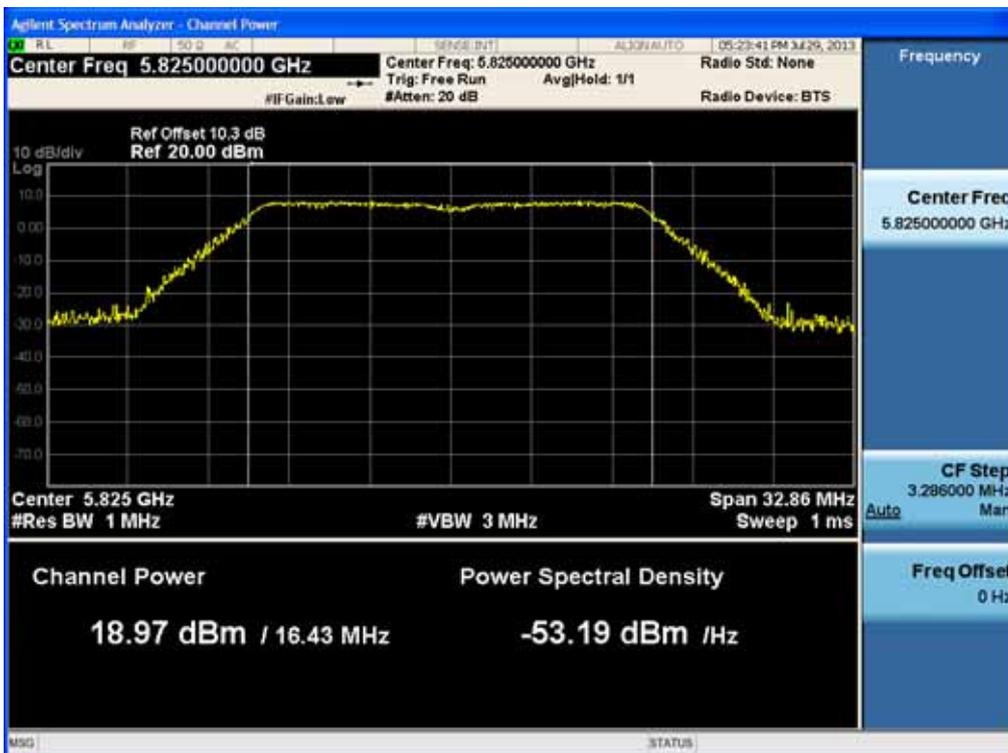
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

(5745 MHz ~5825 MHz)

Conducted Output Power (802.11a-CH 165) 6 Mbps



Conducted Output Power (802.11a-CH 165) 9 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11a-CH 165) 12 Mbps



Conducted Output Power (802.11a-CH 165) 18 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11a-CH 165) 24 Mbps

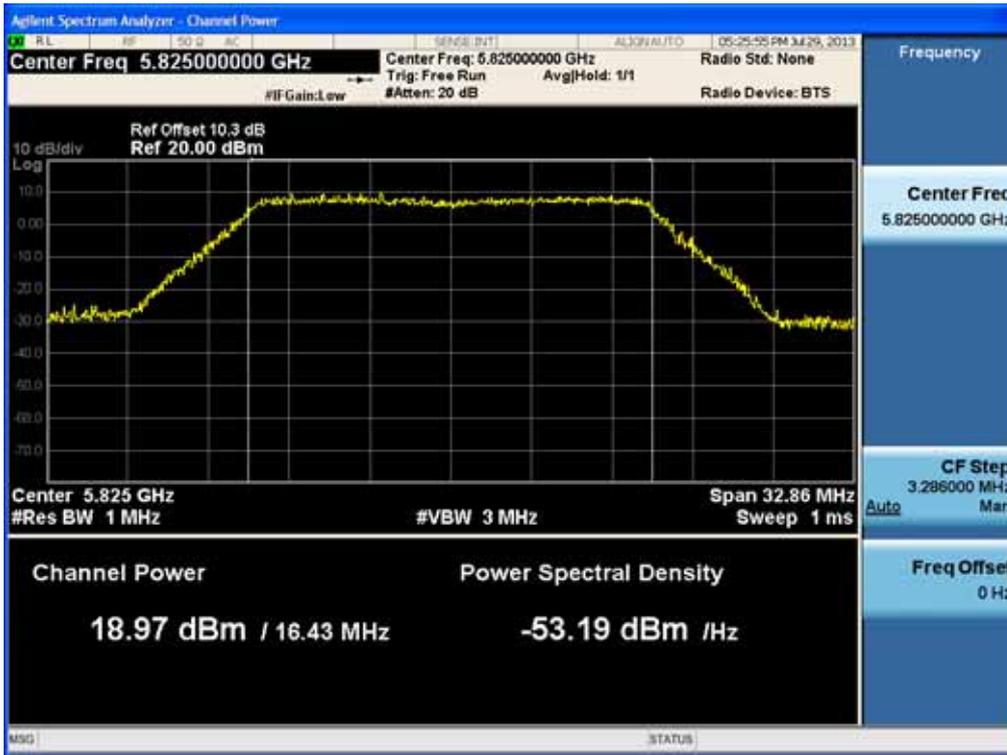


Conducted Output Power (802.11a-CH 165) 36 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11a-CH 165) 48 Mbps



Conducted Output Power (802.11a-CH 165) 54 Mbps



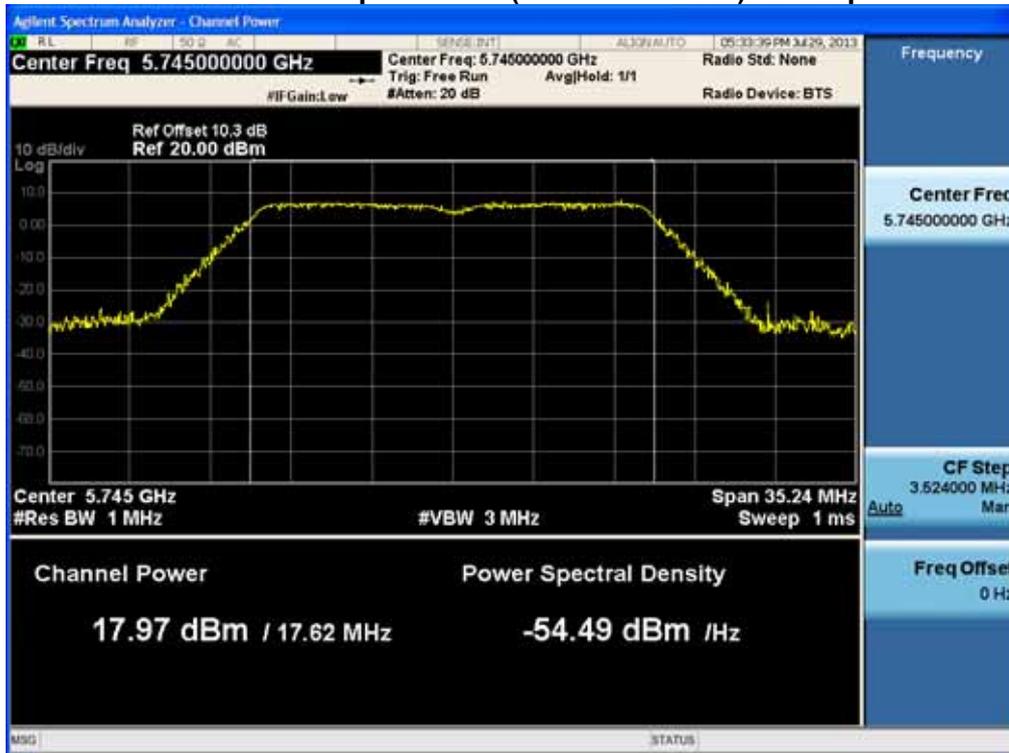
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500



20 MHz BW

(5745 MHz ~5825 MHz)

Conducted Output Power (802.11n-CH 149) 6.5 Mbps



Conducted Output Power (802.11n-CH 149) 13 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 149) 19.5 Mbps



Conducted Output Power (802.11n-CH 149) 26 Mbps

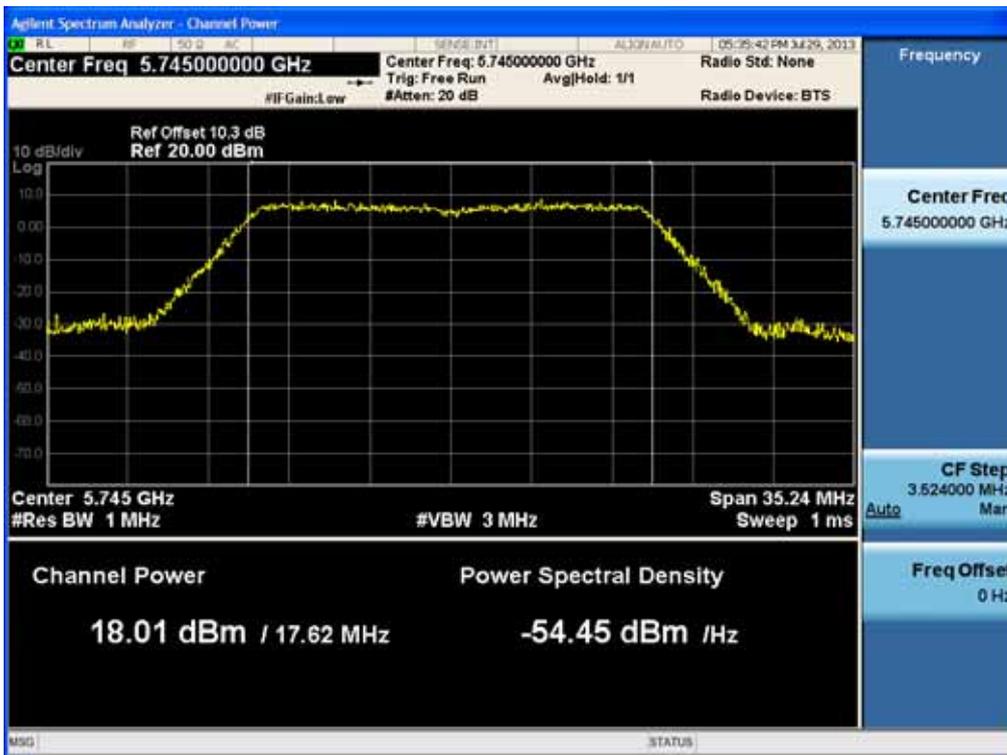


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 149) 39 Mbps



Conducted Output Power (802.11n-CH 149) 52 Mbps

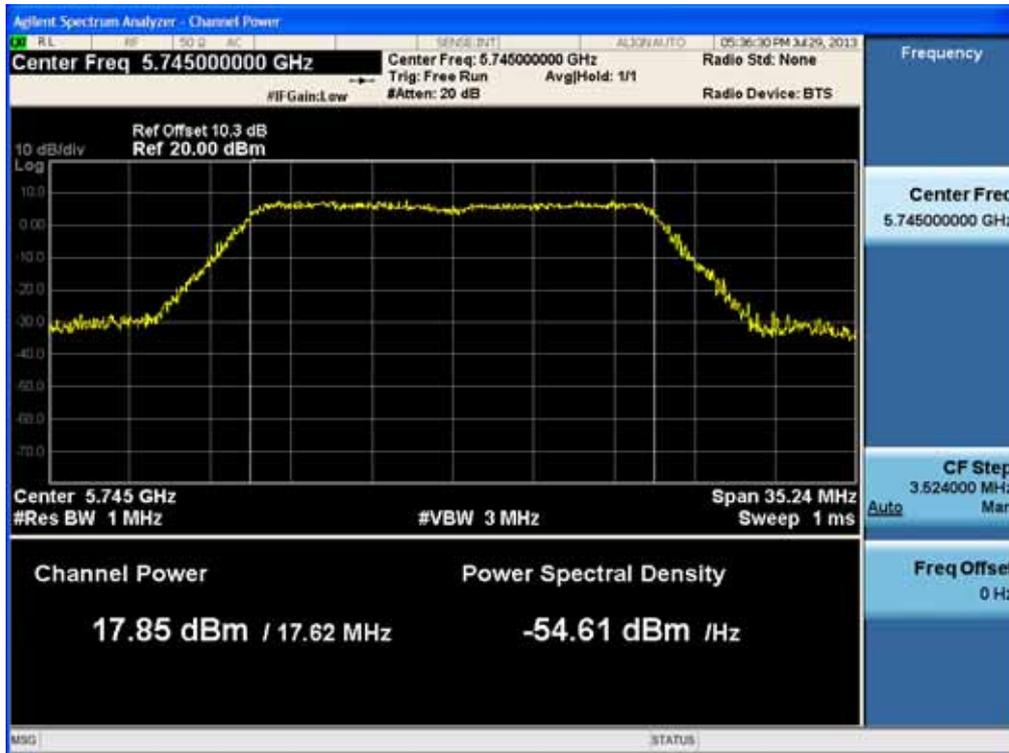


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 149) 58.5 Mbps



Conducted Output Power (802.11n-CH 149) 65 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500



40 MHz BW
(5755 MHz ~5795 MHz)

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

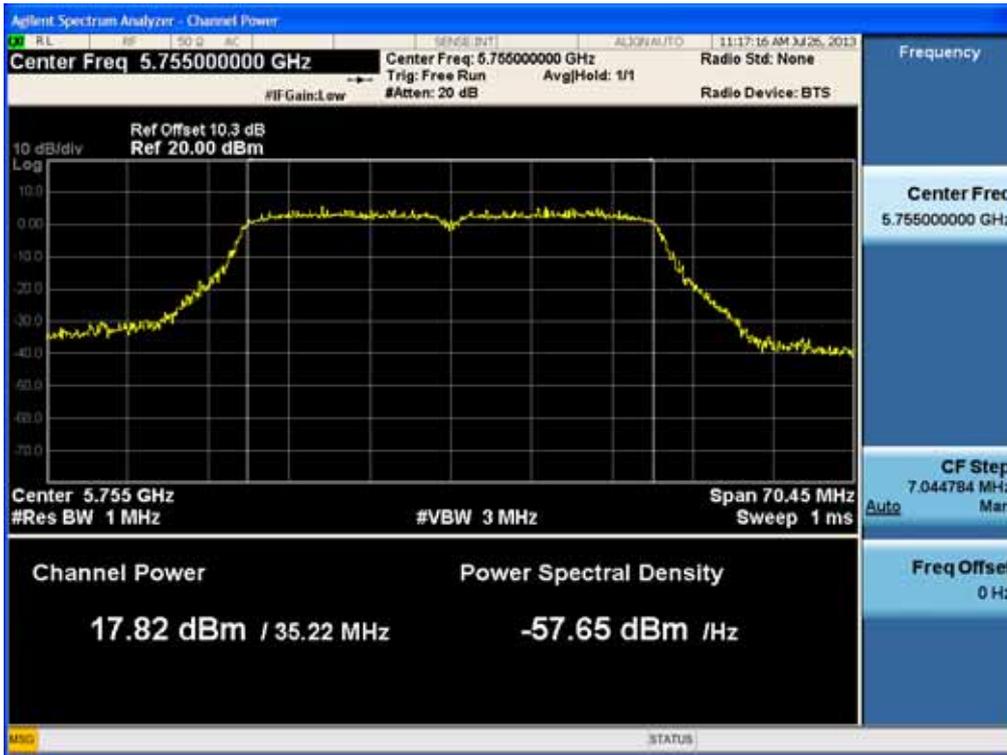


Conducted Output Power (802.11n-CH 151) 27 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 151) 40.5 Mbps

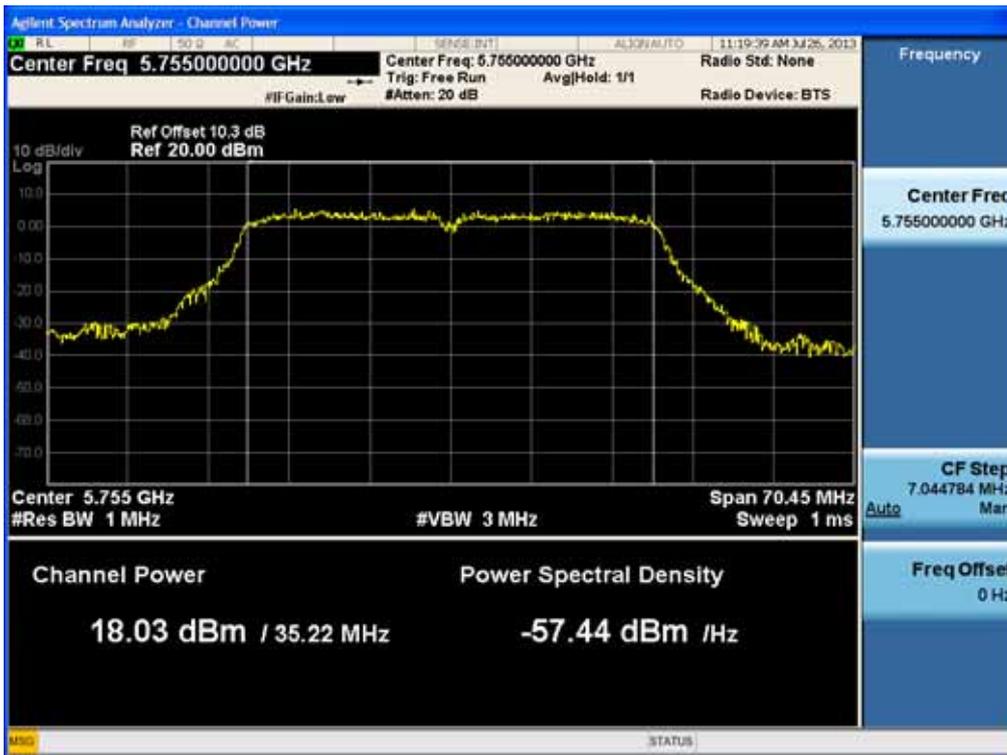


Conducted Output Power (802.11n-CH 151) 54 Mbps

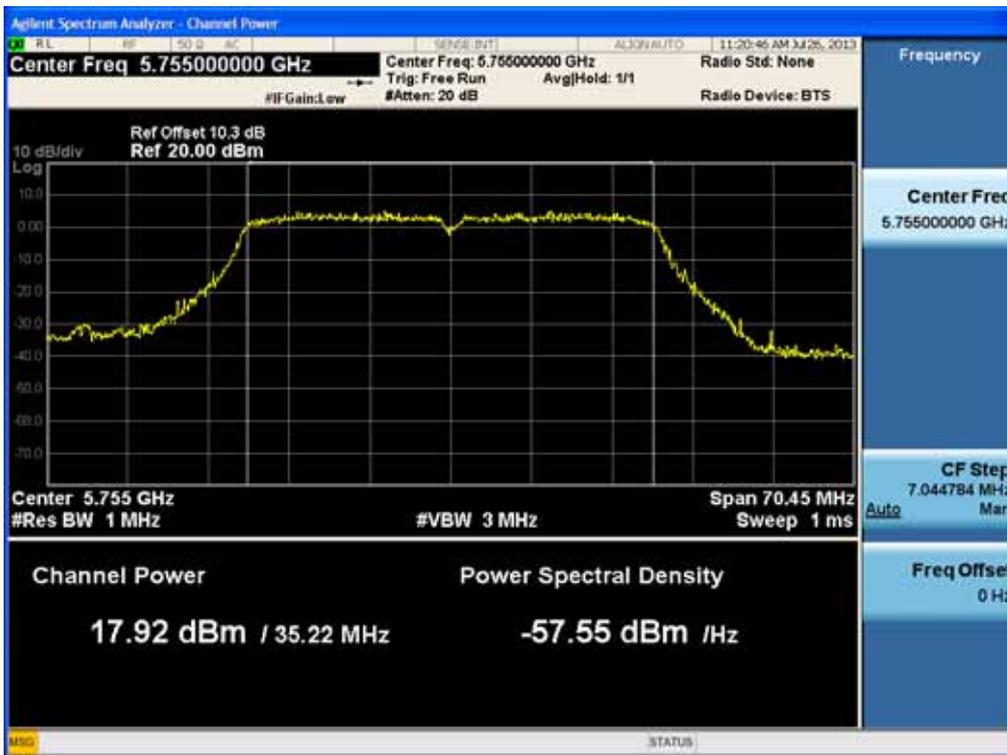


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 151) 81 Mbps



Conducted Output Power (802.11n-CH 151) 108 Mbps

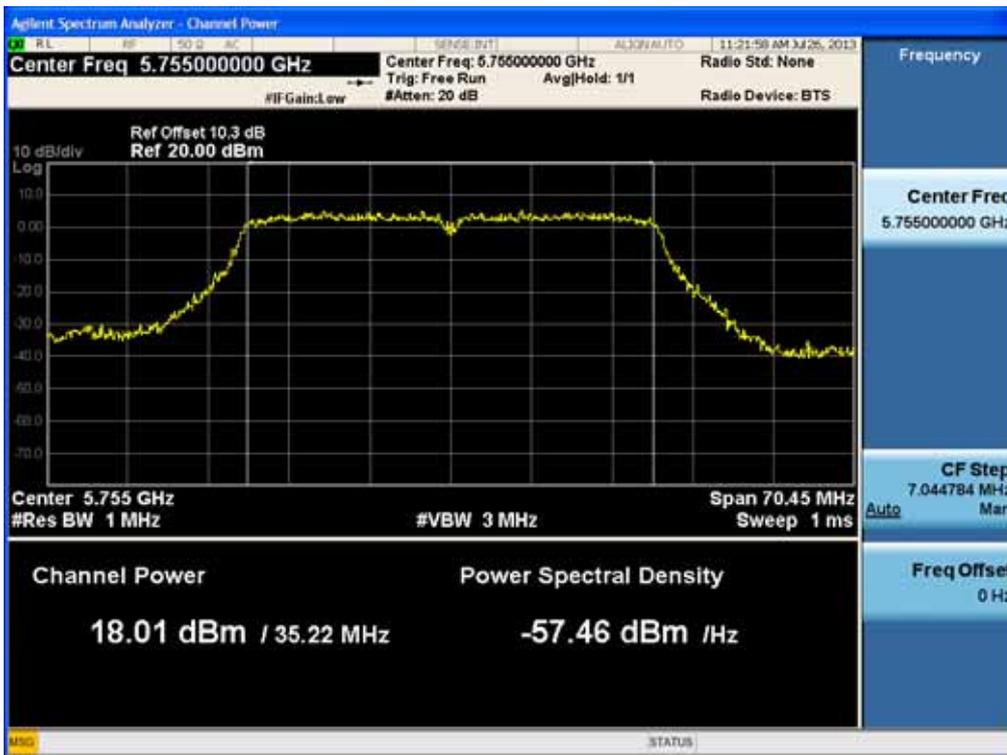


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 151) 121.5 Mbps



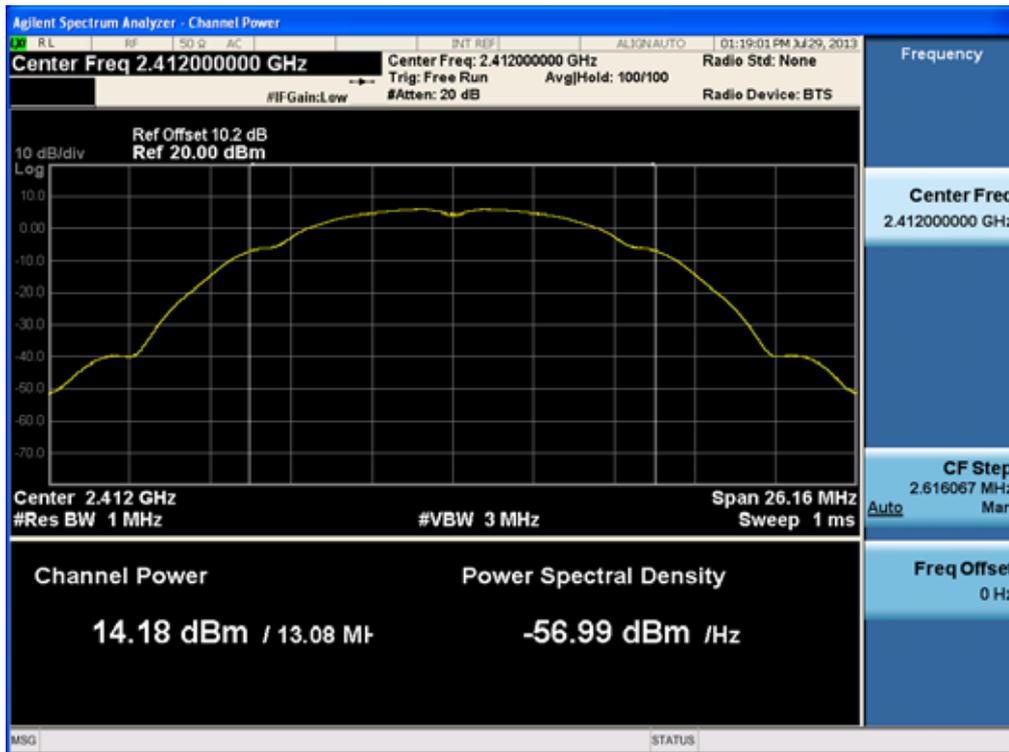
Conducted Output Power (802.11n-CH 151) 135 Mbps



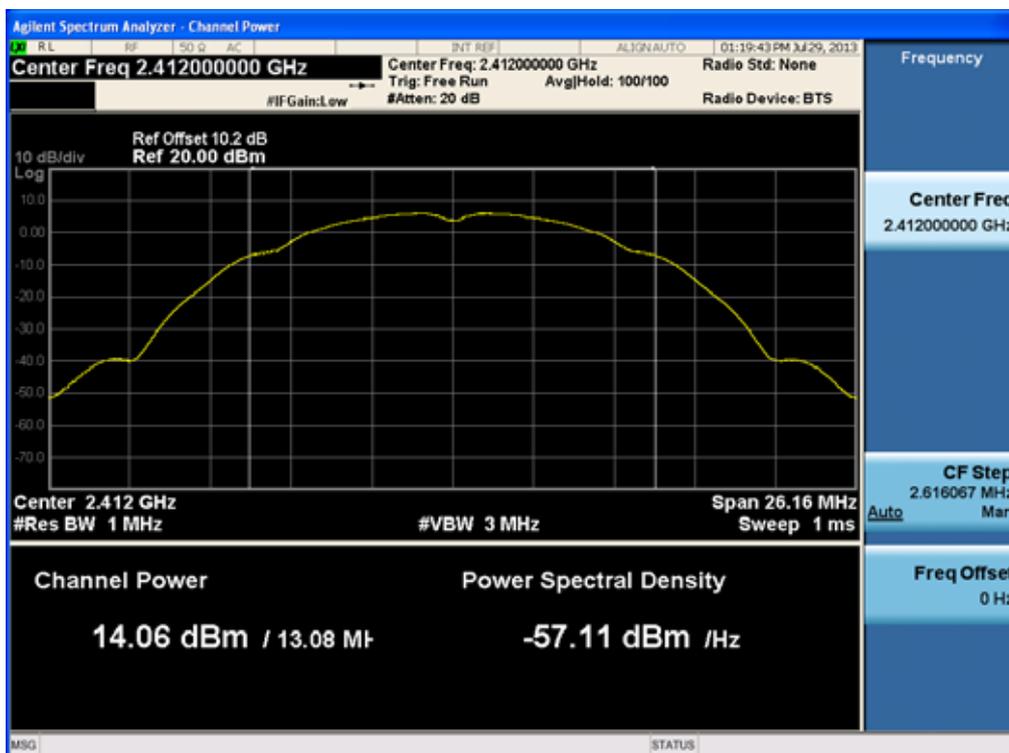
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

RESULT PLOTS-Average

Conducted Output Power (802.11b-CH 1) 1Mbps

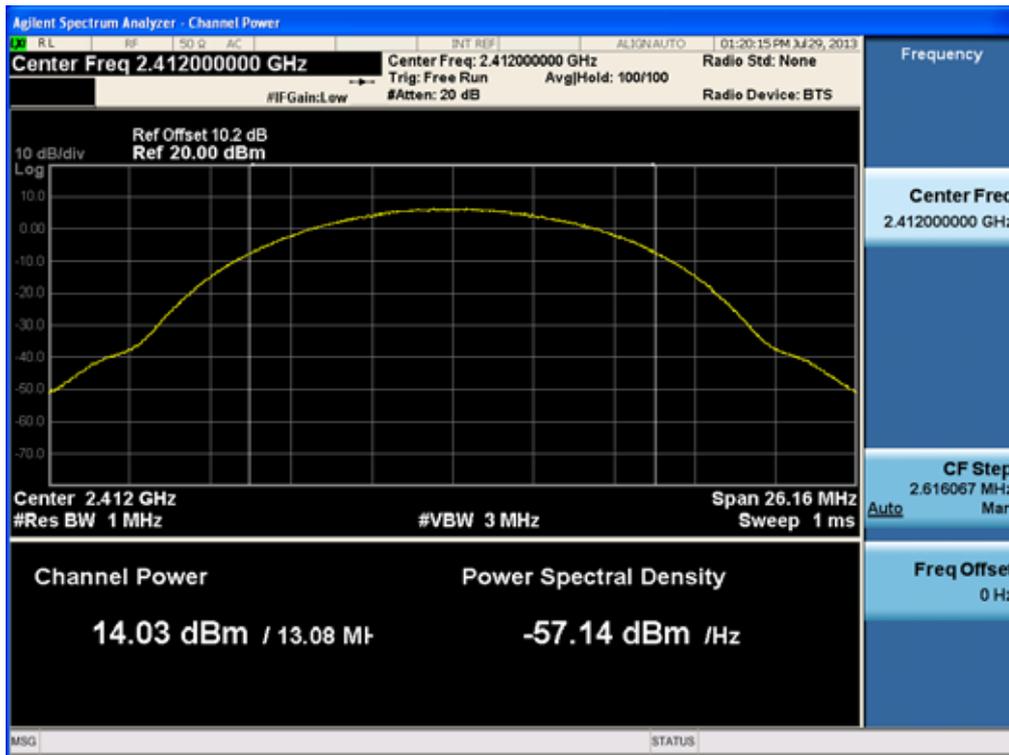


Conducted Output Power (802.11b-CH 1) 2Mbps

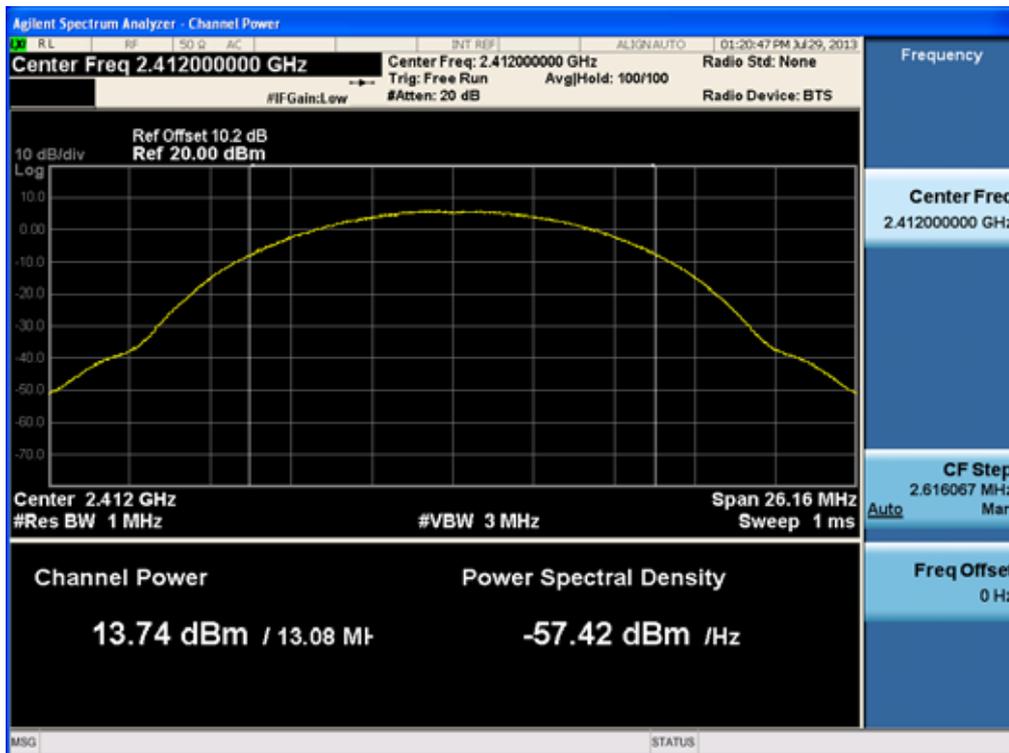


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11b-CH 1) 5.5Mbps

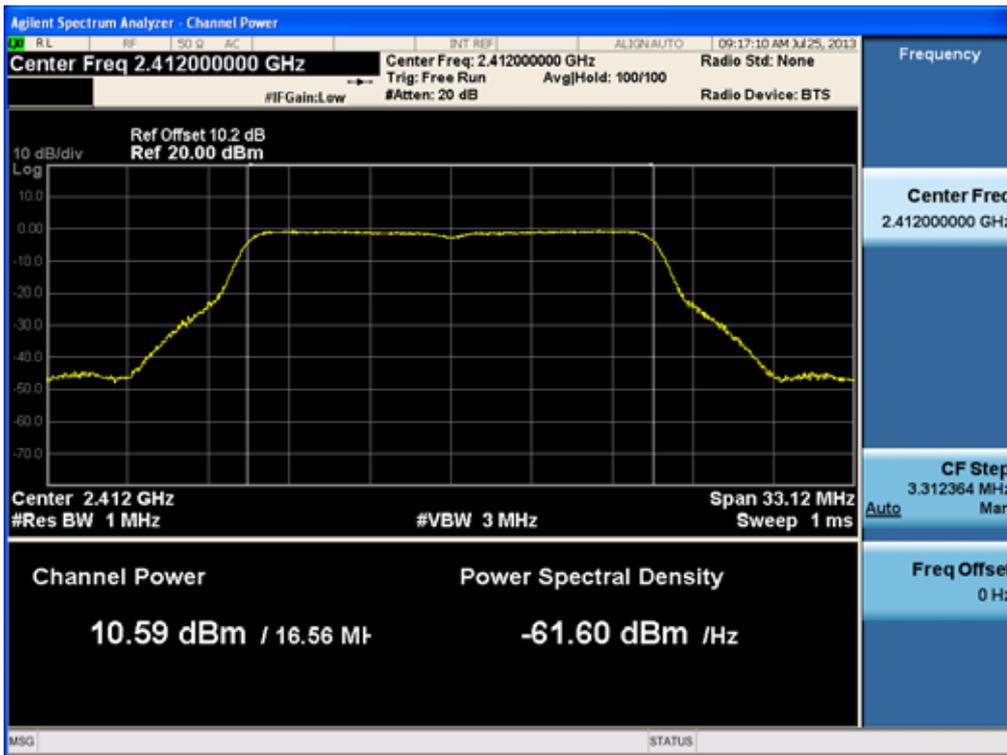


Conducted Output Power (802.11b-CH 1) 11Mbps

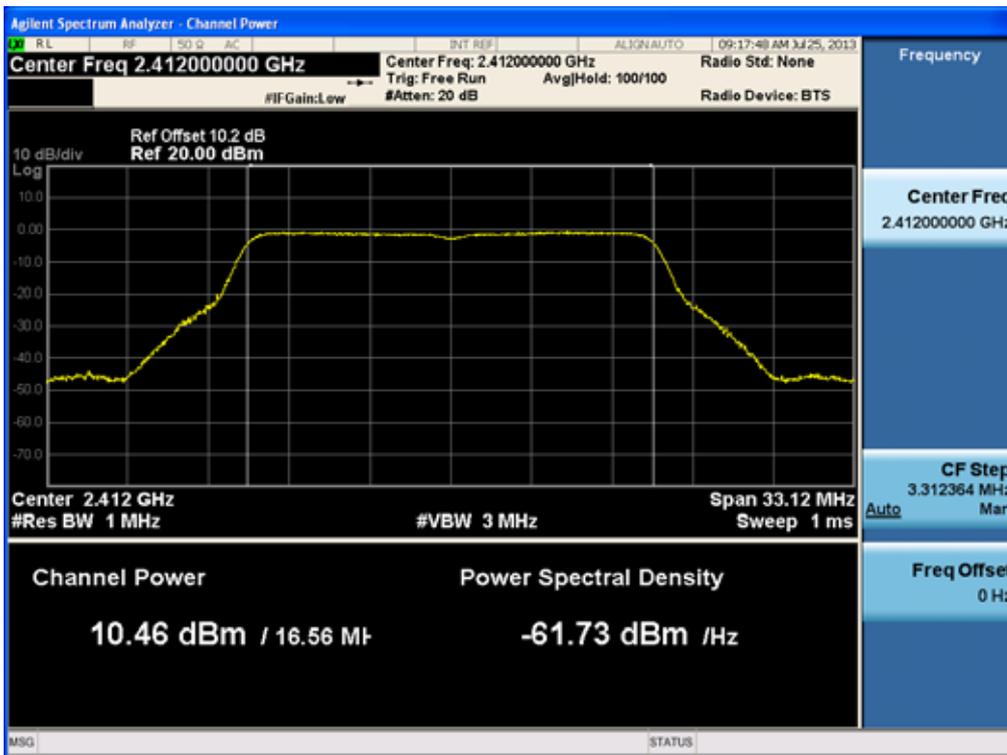


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11g-CH 1) 6Mbps

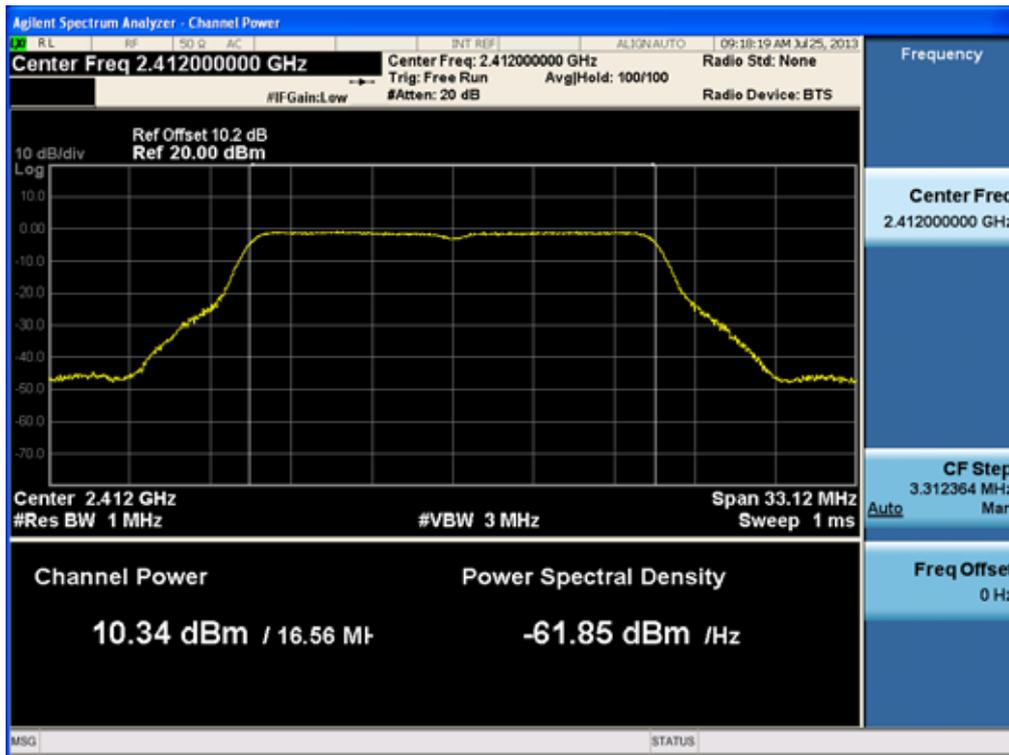


Conducted Output Power (802.11g-CH 1) 9Mbps

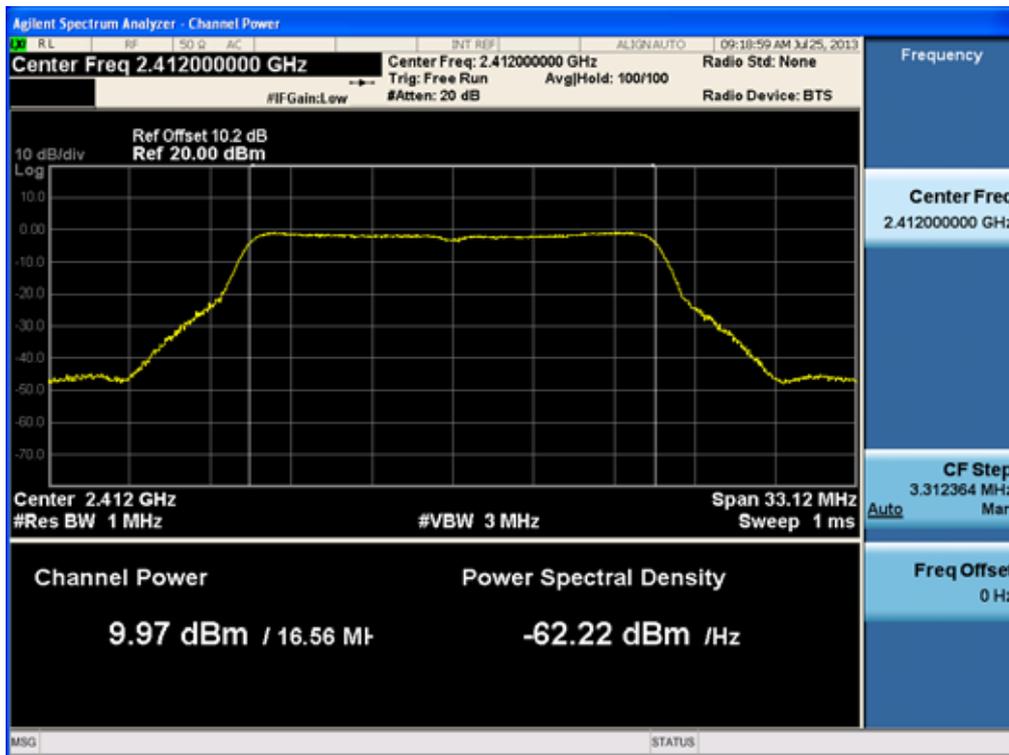


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11g-CH 1) 12Mbps

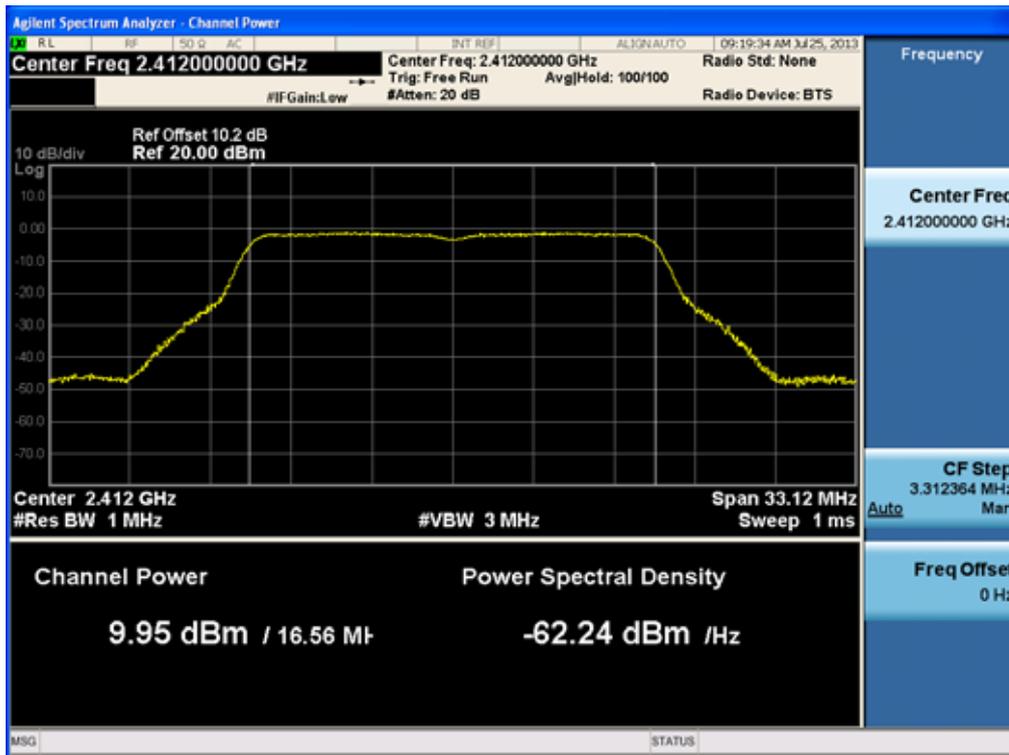


Conducted Output Power (802.11g-CH 1) 18Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11g-CH 1) 24Mbps

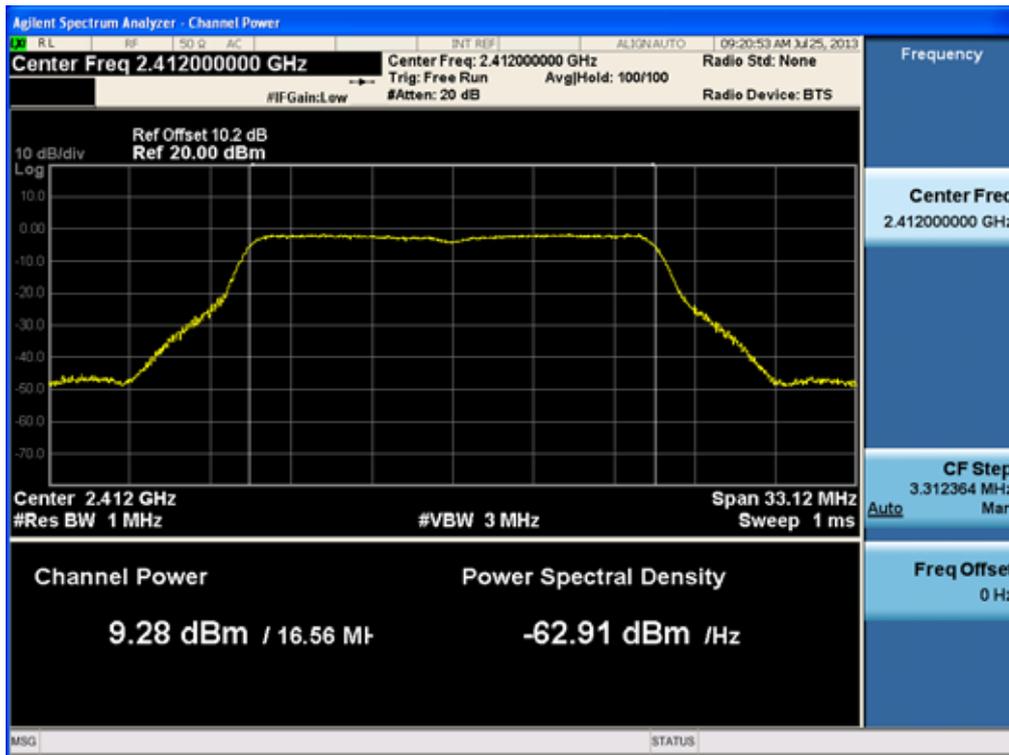


Conducted Output Power (802.11g-CH 1) 36Mbps

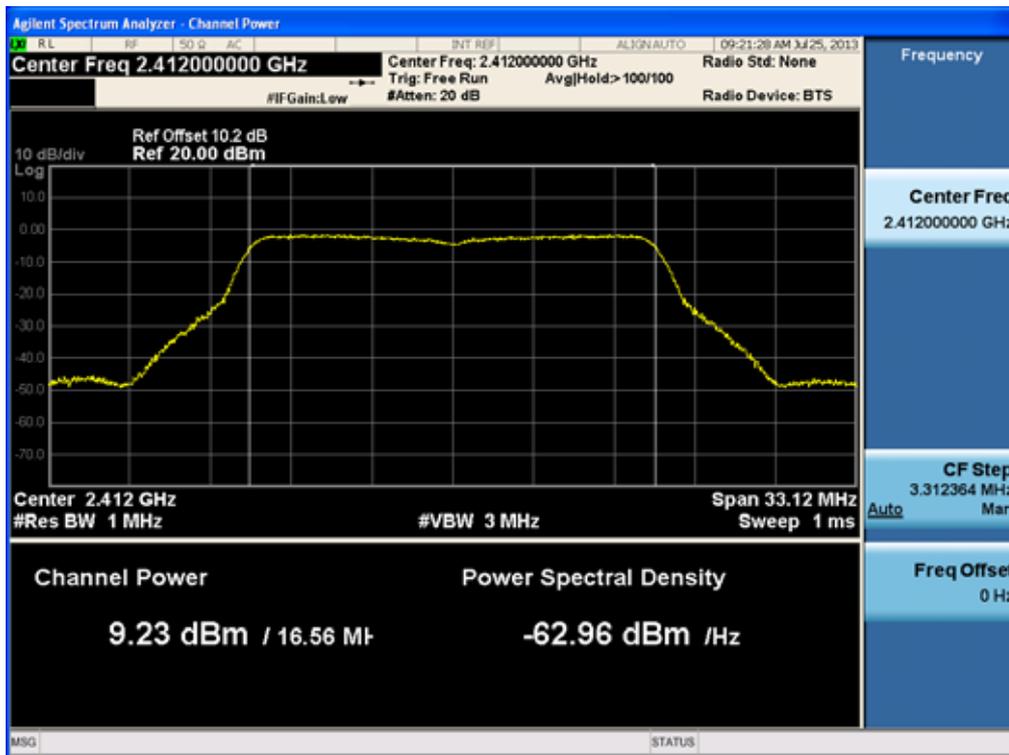


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11g-CH 1) 48Mbps

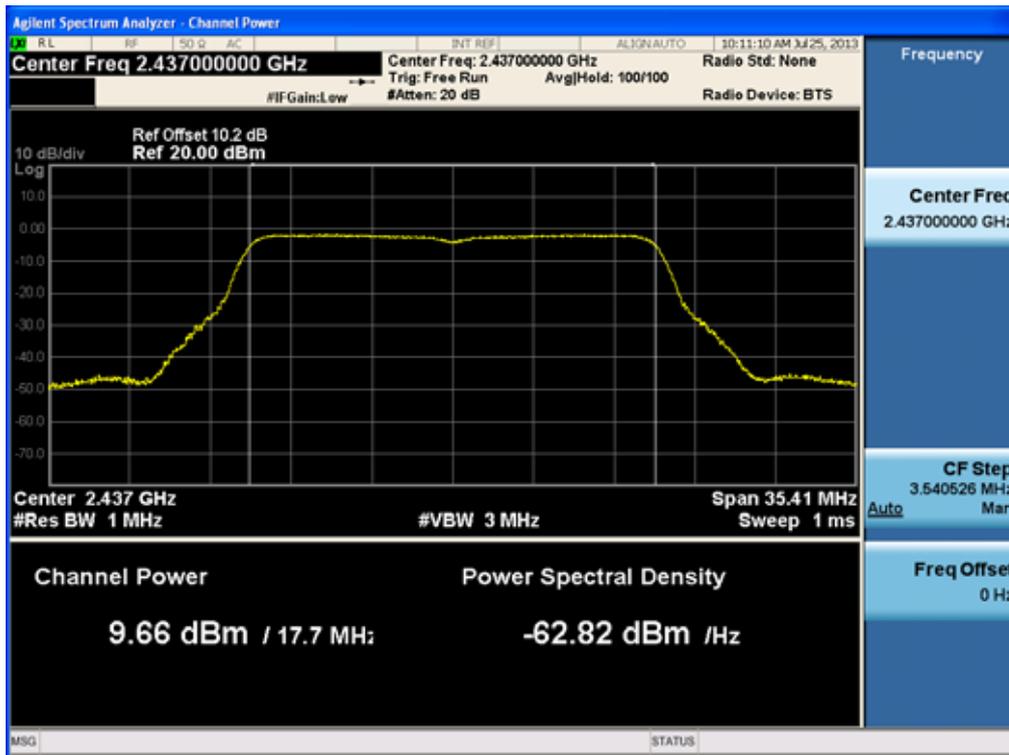


Conducted Output Power (802.11g-CH 1) 54Mbps

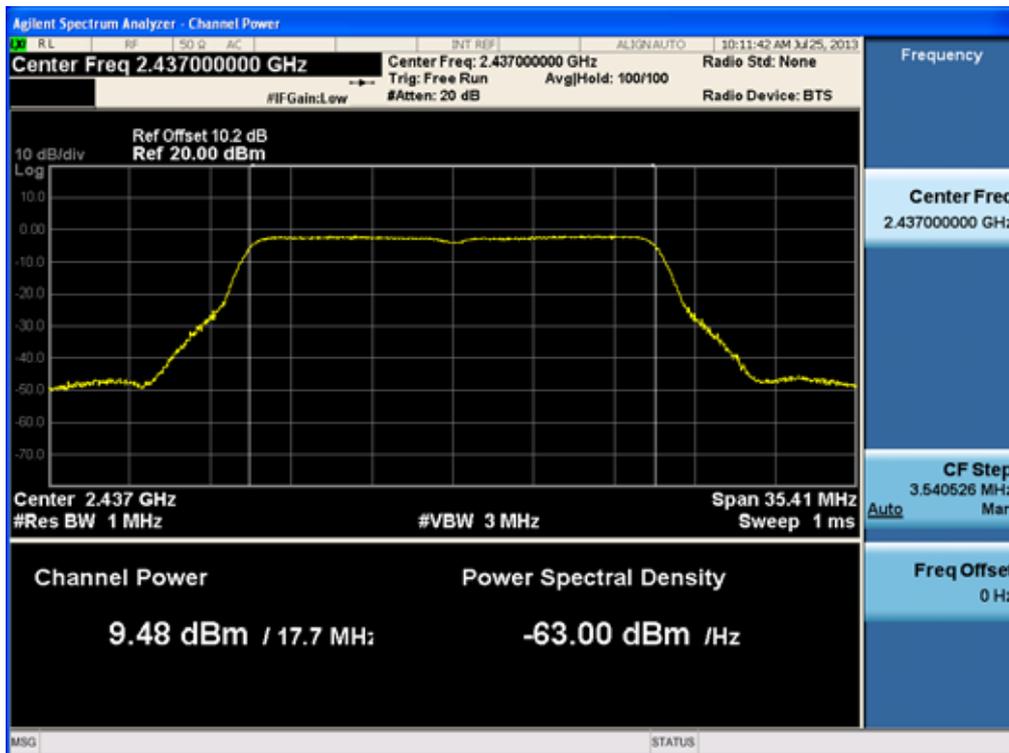


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 6) 6.5Mbps

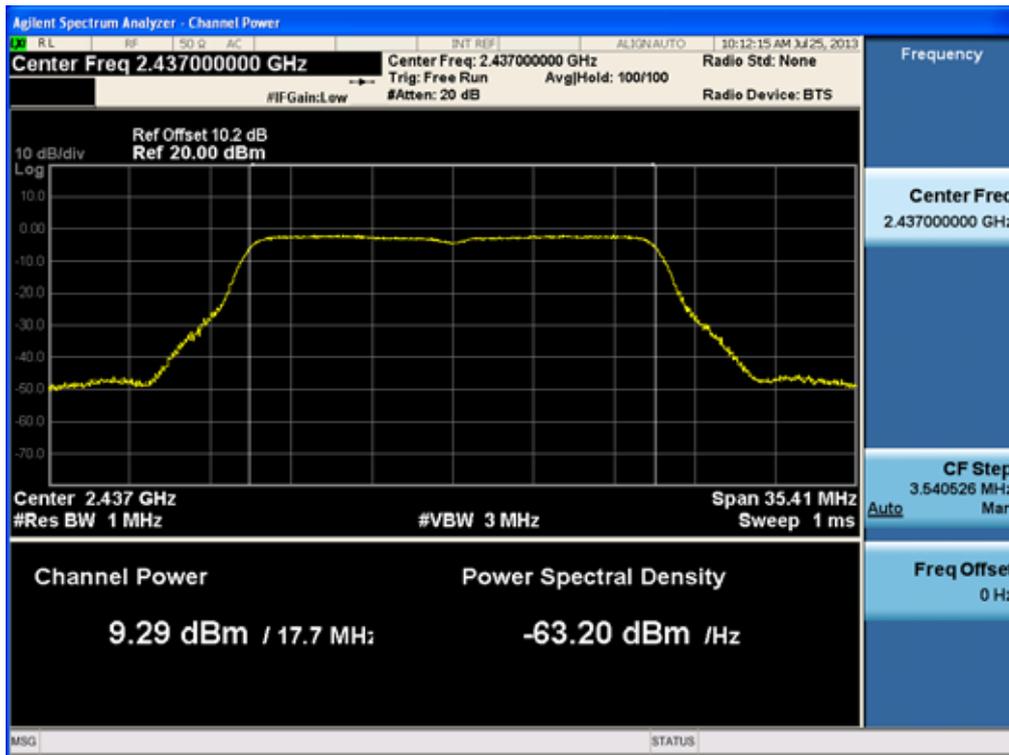


Conducted Output Power (802.11n-CH 6) 13Mbps

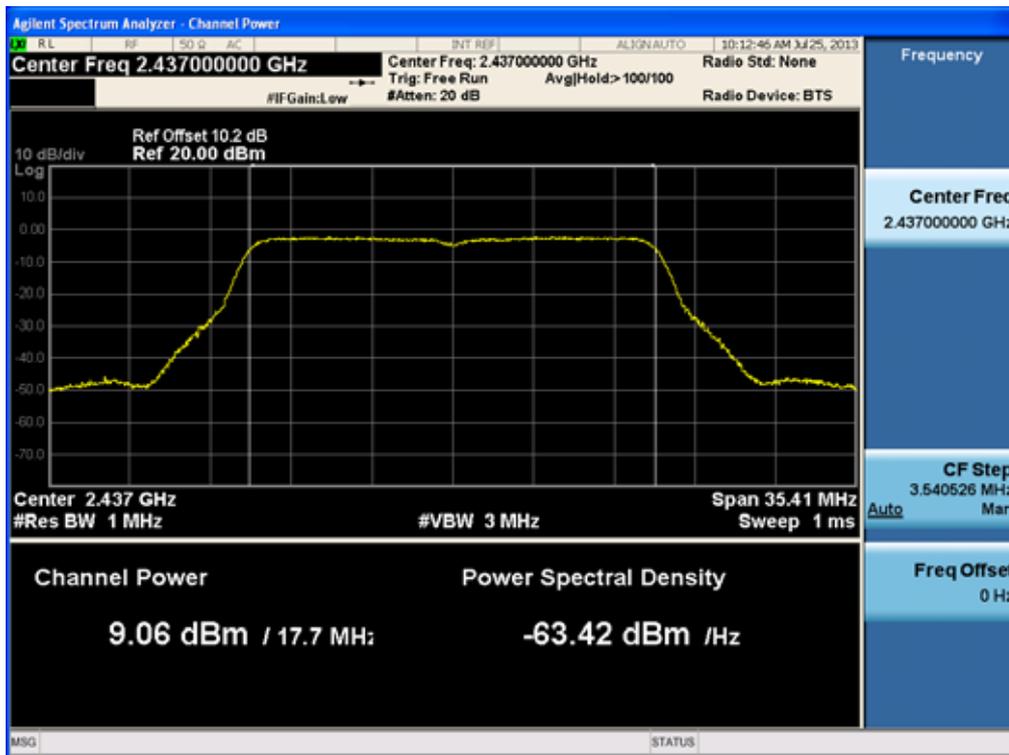


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 6) 19.5Mbps

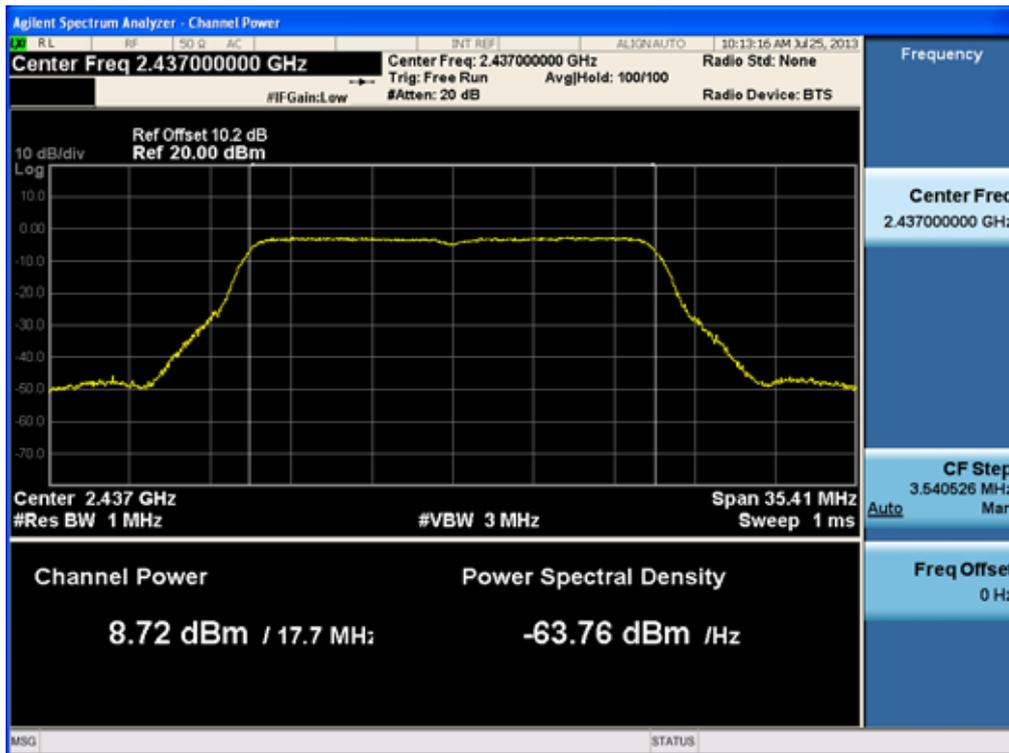


Conducted Output Power (802.11n-CH 6) 26Mbps

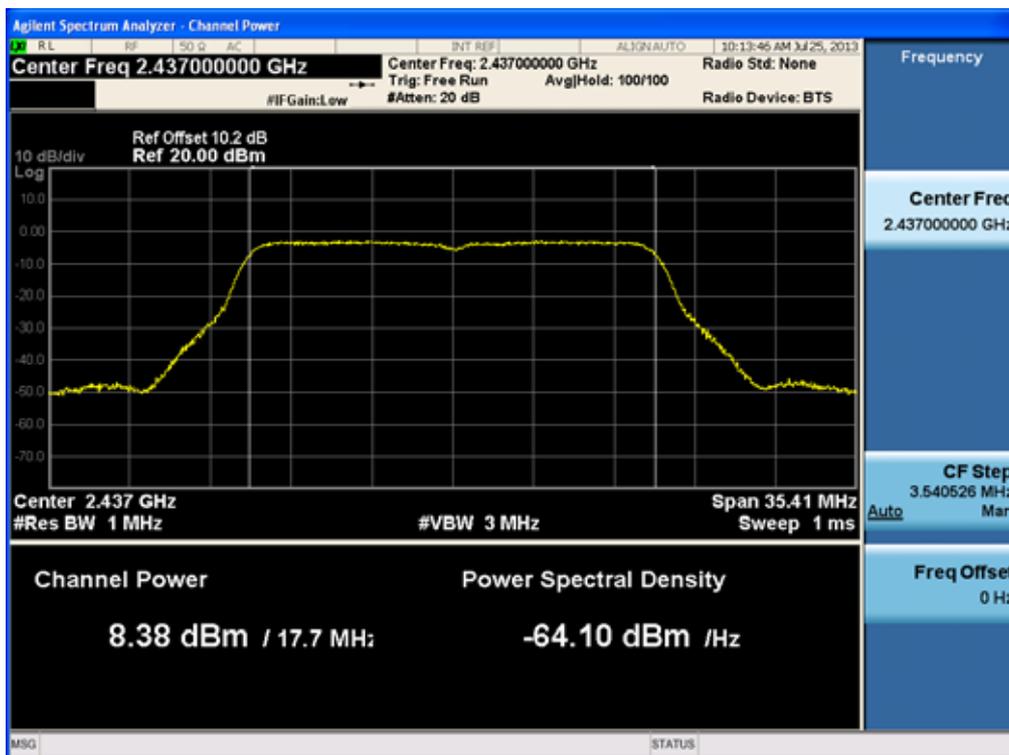


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 6) 39Mbps

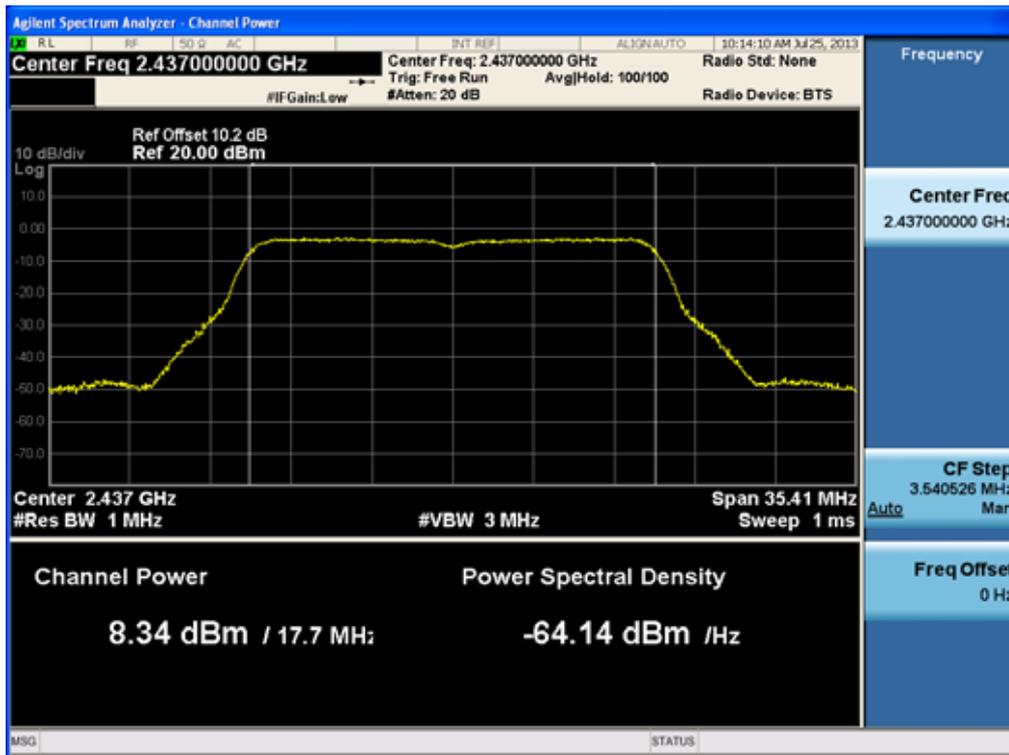


Conducted Output Power (802.11n-CH 6) 52Mbps

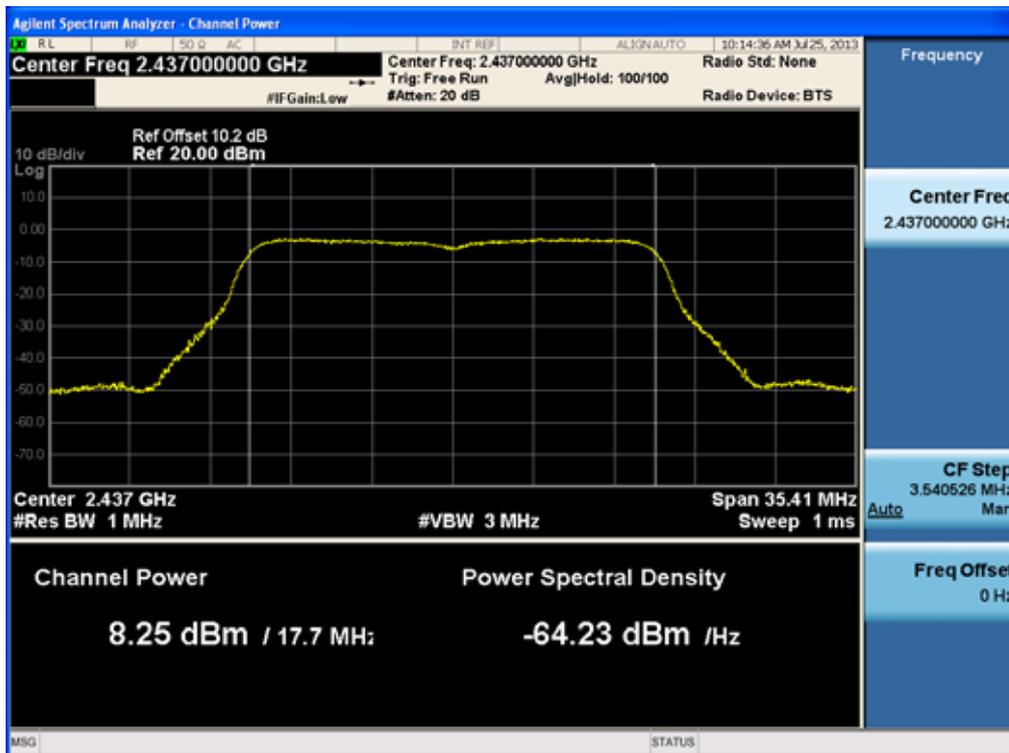


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 6) 58.5Mbps



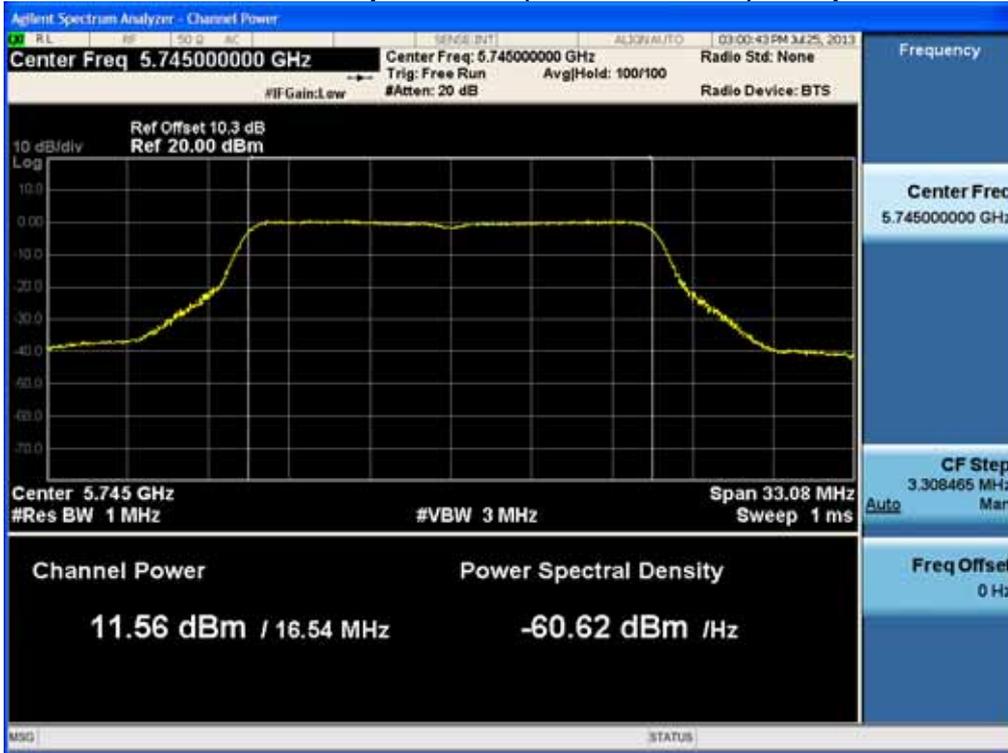
Conducted Output Power (802.11n-CH 6) 65Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

(5745 MHz ~5825 MHz)

Conducted Output Power (802.11a-CH 149) 6 Mbps

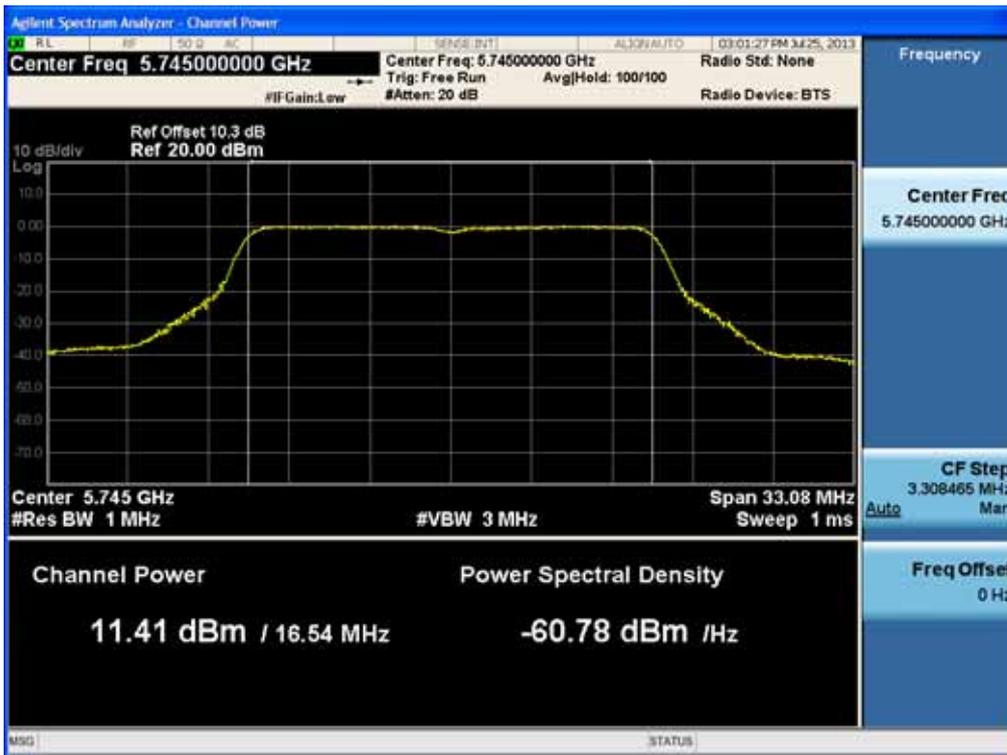


Conducted Output Power (802.11a-CH 149) 9 Mbps

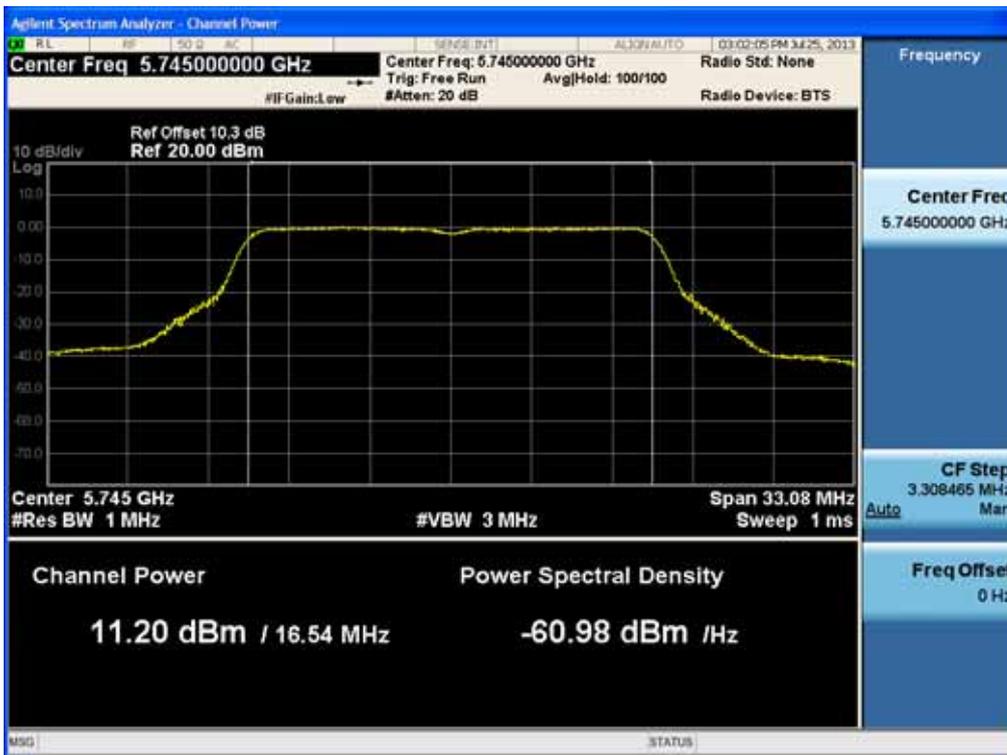


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11a-CH 149) 12 Mbps

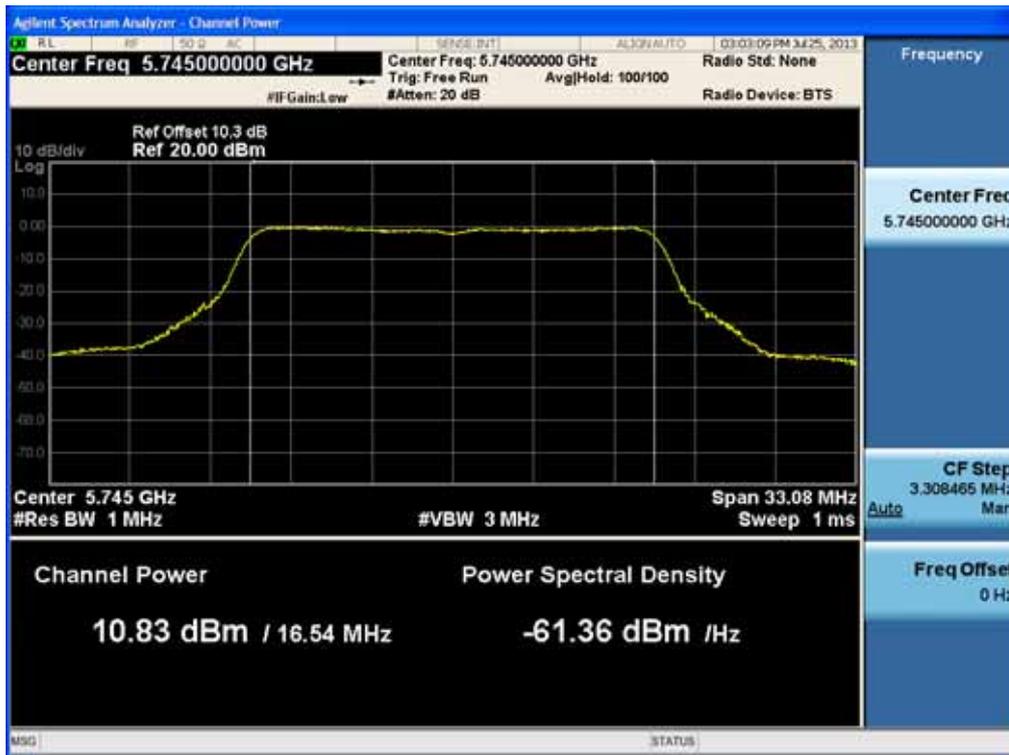


Conducted Output Power (802.11a-CH 149) 18 Mbps

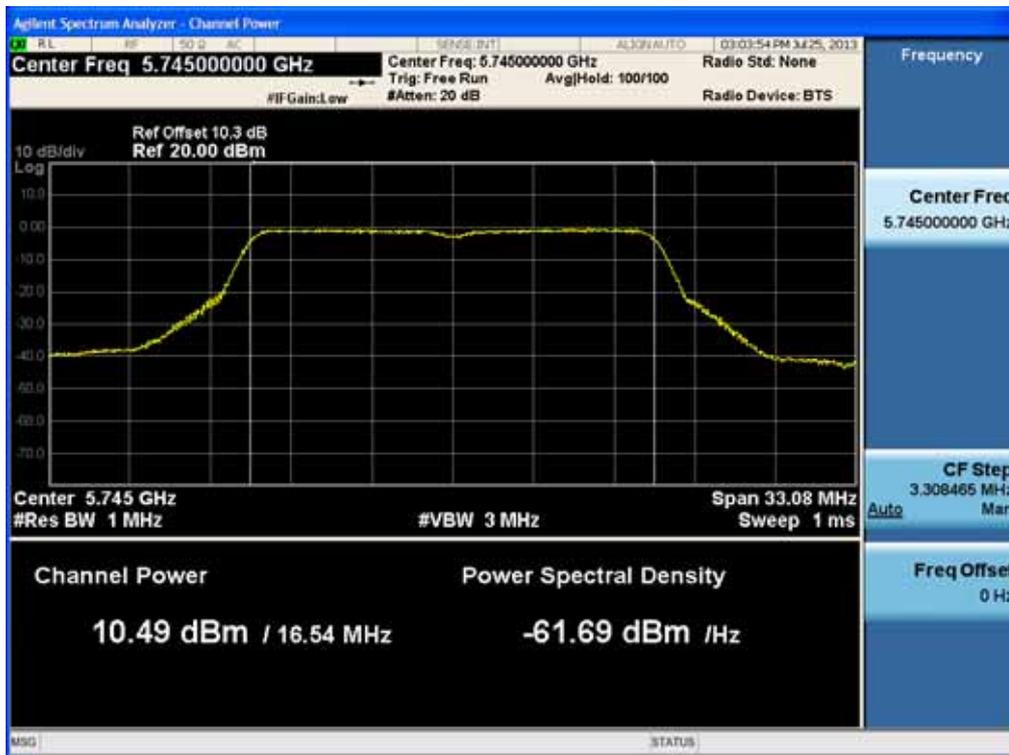


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11a-CH 149) 24 Mbps



Conducted Output Power (802.11a-CH 149) 36 Mbps

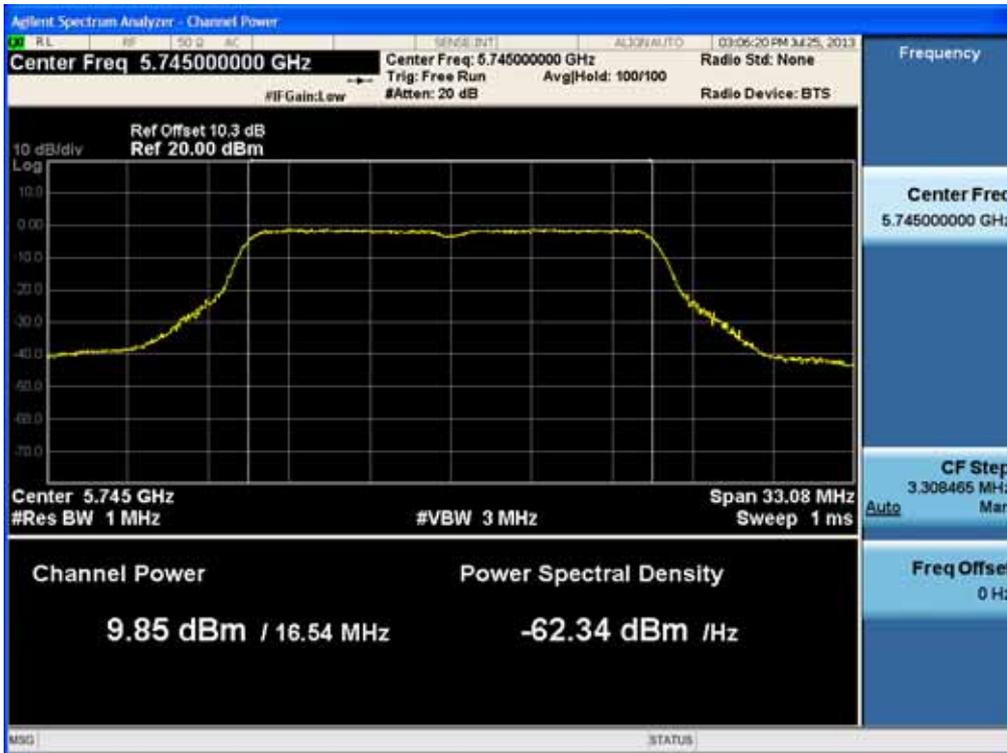


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11a-CH 149) 48 Mbps



Conducted Output Power (802.11a-CH 149) 54 Mbps

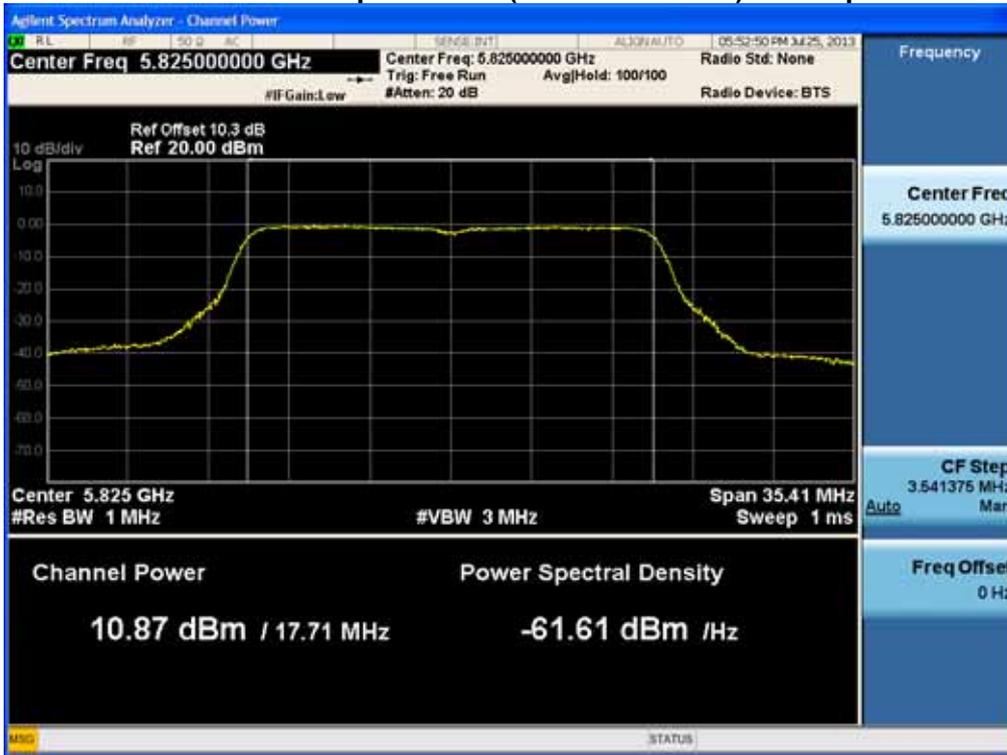


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

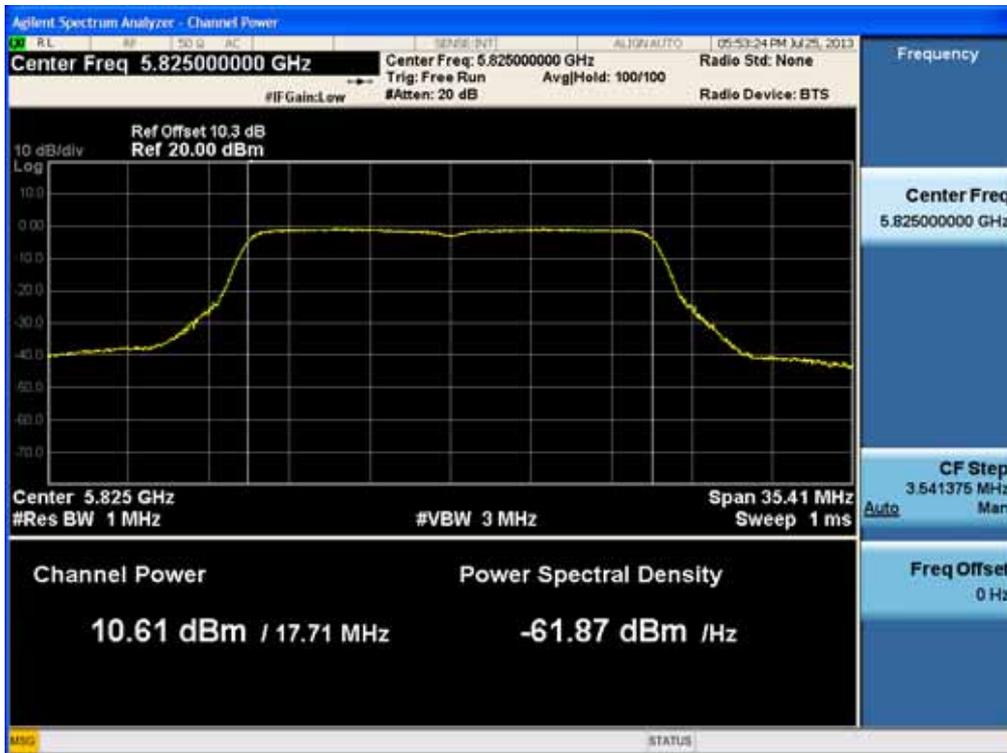


20 MHz BW
(5745 MHz ~5825 MHz)

Conducted Output Power (802.11n-CH 165) 6.5 Mbps



Conducted Output Power (802.11n-CH 165) 13 Mbps

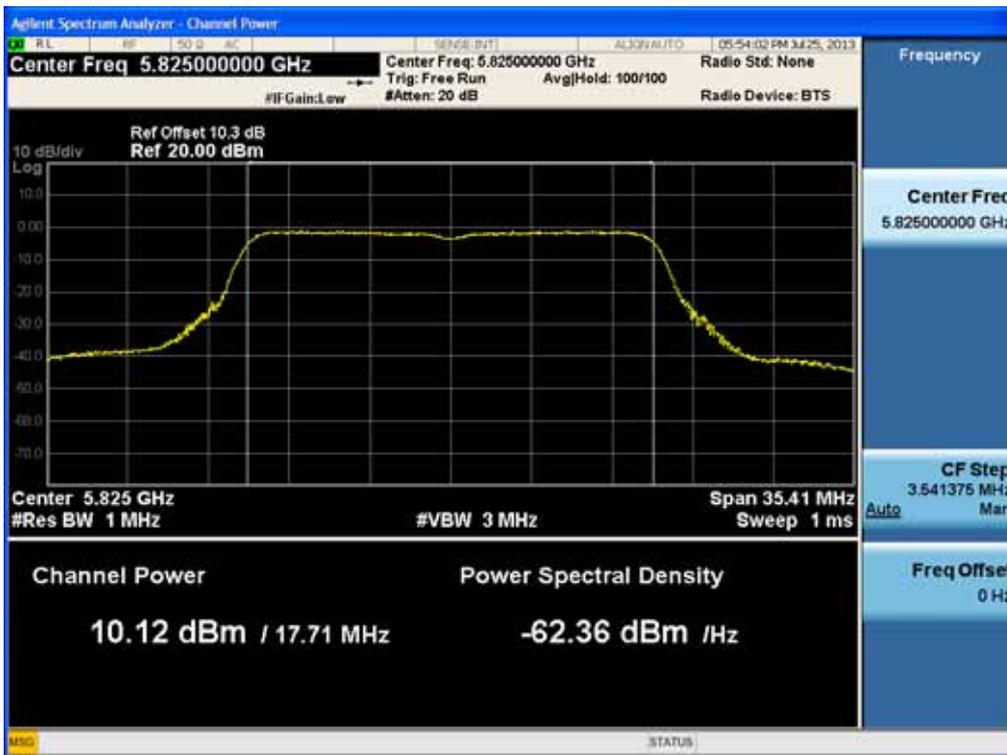


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Conducted Output Power (802.11n-CH 165) 19.5 Mbps



Conducted Output Power (802.11n-CH 165) 26 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 165) 39 Mbps



Conducted Output Power (802.11n-CH 165) 52 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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Conducted Output Power (802.11n-CH 165) 58.5 Mbps



Conducted Output Power (802.11n-CH 165) 65 Mbps



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

(5755 MHz ~5795 MHz)

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



Conducted Output Power (802.11n-CH 151) 27 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 151) 40.5 Mbps



Conducted Output Power (802.11n-CH 151) 54 Mbps

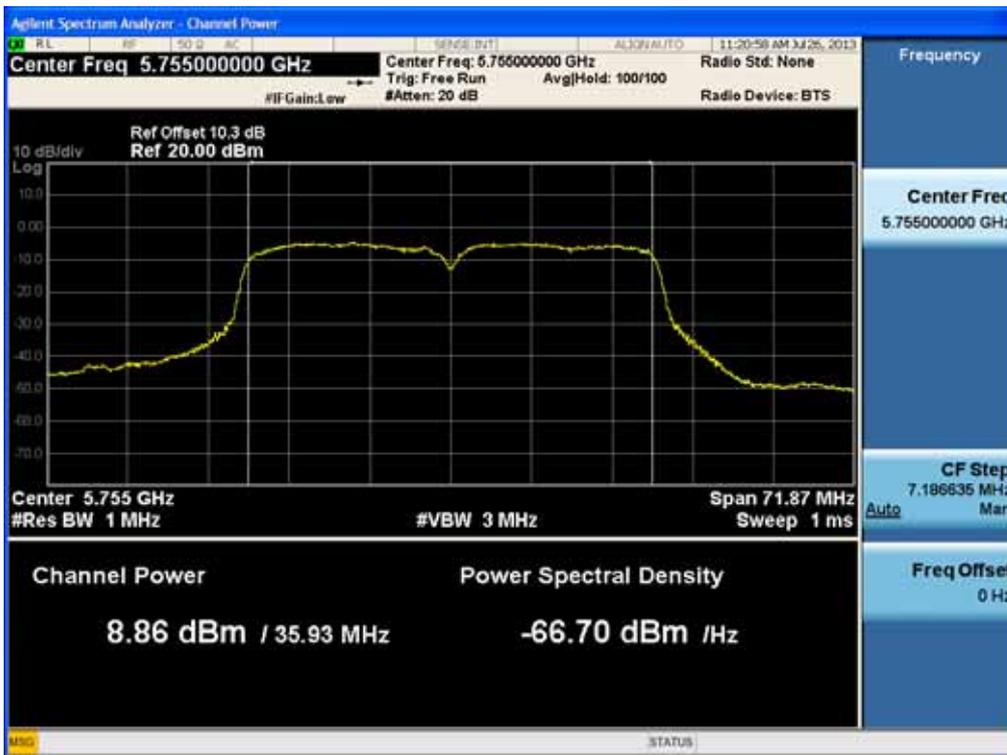


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 151) 81 Mbps



Conducted Output Power (802.11n-CH 151) 108 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 151) 121.5 Mbps



Conducted Output Power (802.11n-CH 151) 135 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR14	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

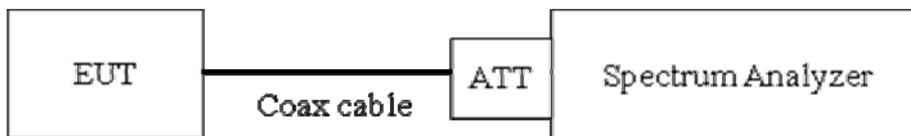
8.4 POWER SPECTRAL DENSITY (802.11a/b/g/n)

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 ≤ RBW ≤ 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

$$\begin{aligned} \text{PSD} &= \text{Reading Value} + \text{ATT loss} + \text{Cable loss}(1 \text{ ea}) \\ &= -5 \text{ dBm} + 10 \text{ dB} + 0.8 \text{ dB} = 5.8 \text{ dBm} \end{aligned}$$

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, 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.

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Band	Frequency(MHz)	Loss(dB)
2.4 GHz	2412	10.21
	2437	10.24
	2462	10.24
5.8 GHz	5745	10.31
	5755	10.30
	5785	10.29
	5795	10.26
	5825	10.28

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

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TEST RESULTS

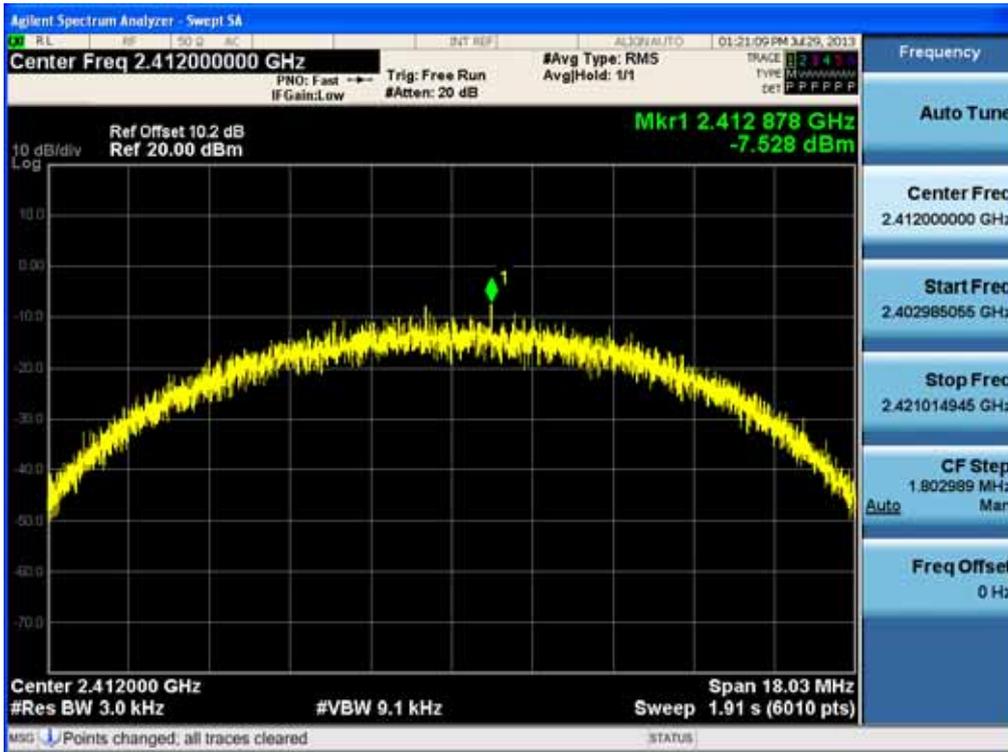
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	-7.528	8	Pass
2437	6		-8.937		Pass
2462	11		-9.471		Pass
2412	1	802.11g	-15.250		Pass
2437	6		-15.348		Pass
2462	11		-15.346		Pass
2412	1	802.11n	-15.339		Pass
2437	6	2.4 GHz Band	-16.365		Pass
2462	11		-17.272		Pass
5745	149		-14.658		Pass
5785	157	802.11a	-14.375		Pass
5825	165		-14.055		Pass
5745	149		802.11n_20 MHz BW		-15.102
5785	157	5.8 GHz Band	-14.871		Pass
5825	165		-14.952		Pass
5755	151		802.11n_40 MHz BW	-18.060	Pass
5795	159	5.8 GHz Band	-18.090	Pass	

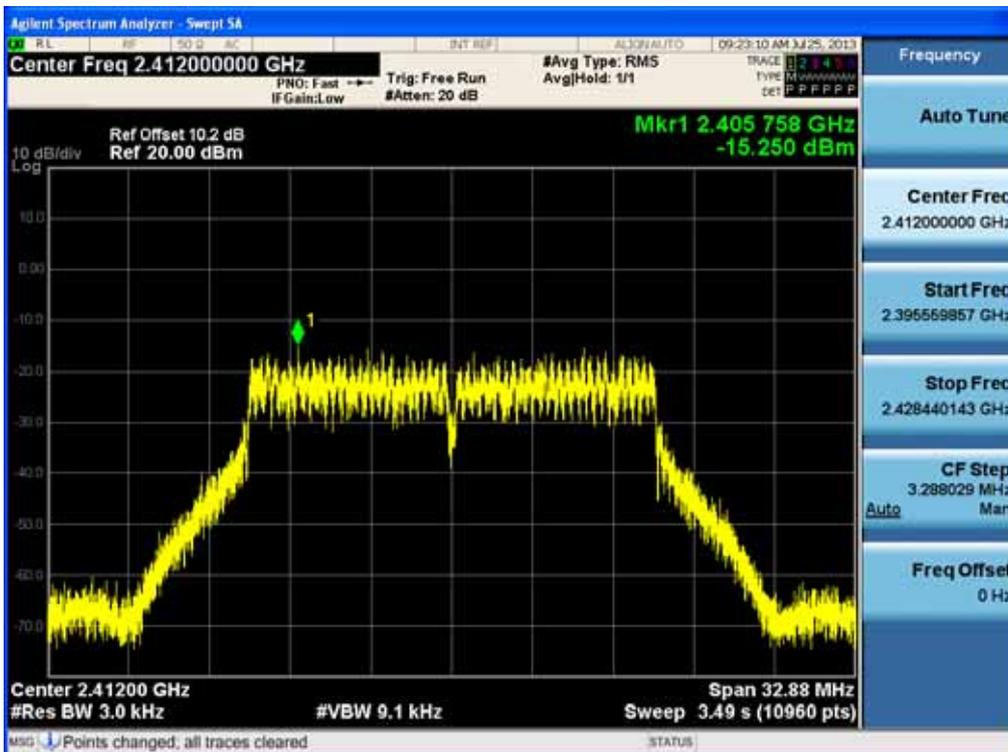
Note : In order to simplify the report, attached plots were only the highest PSD channel.

RESULT PLOTS

Power Spectral Density (802.11b-CH 1)

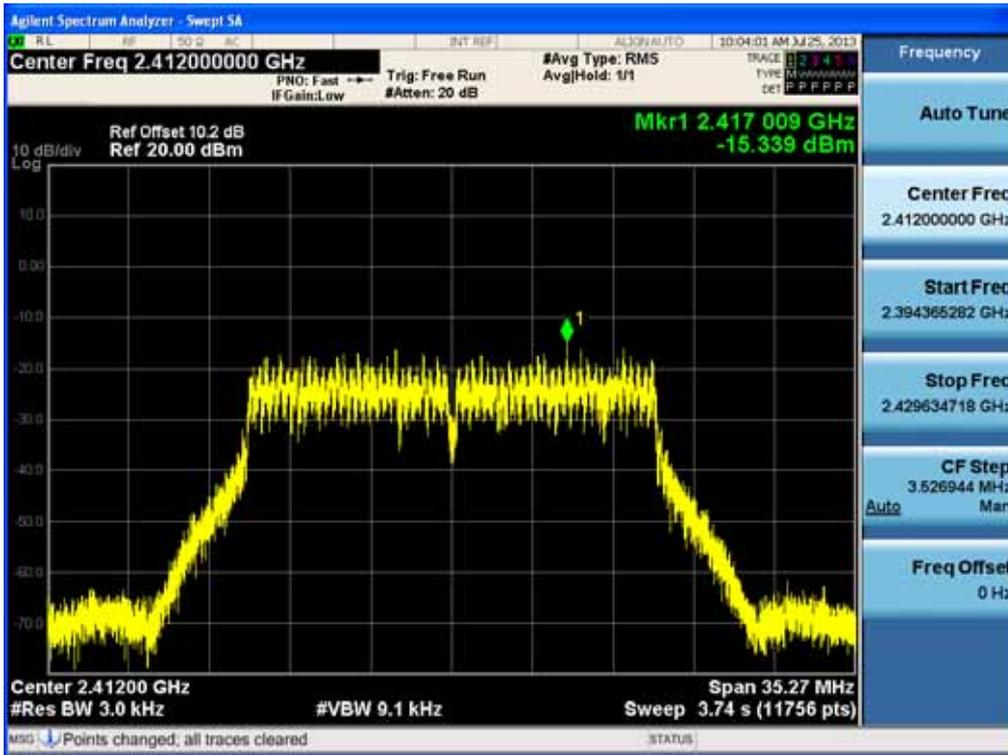


Power Spectral Density (802.11g-CH 1)

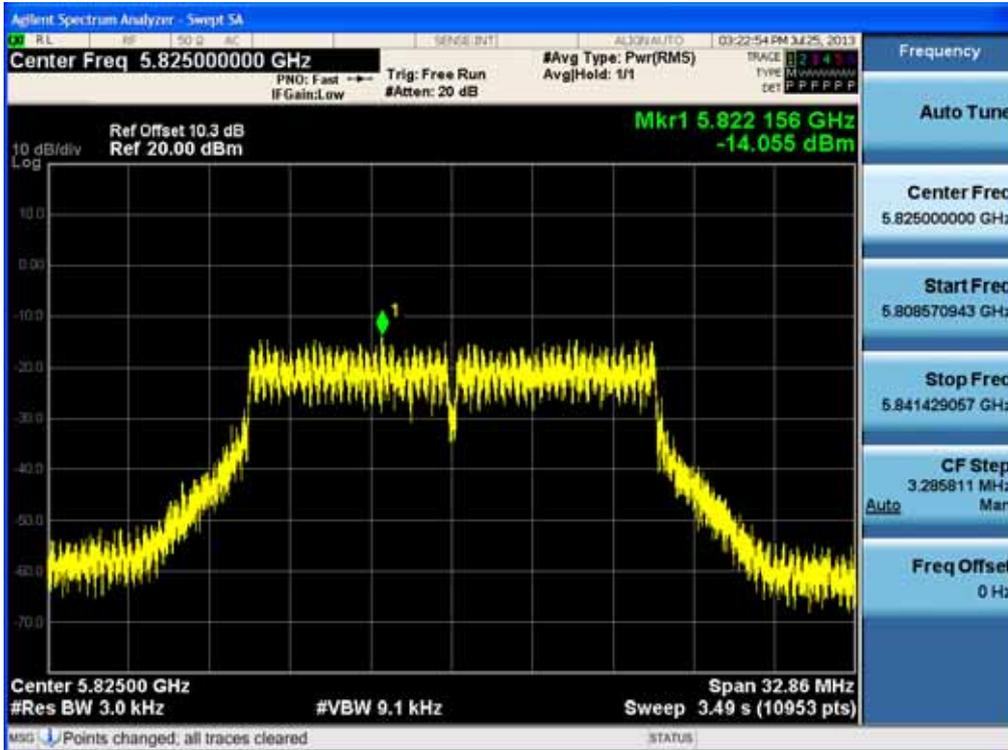


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Power Spectral Density (802.11n-CH 1)



Power Spectral Density (802.11a-CH 165)



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