



HCT CO., LTD.

CERTIFICATE OF COMPLIANCE FCC Certification

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| Applicant Name: LG Electronics Inc. | Date of Issue: October 26, 2011 |
| Address: 19-1,Cheongho-ri, Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-do, Korea(451-713) | Test Site/Location: HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, Korea |
| | Report No.: HCTR1110FR01-3 |
| | HCT FRN: 0005866421 |
| | IC Recognition No.: 5944A-3 |

| | |
|-------------------|----------------------------|
| FCC ID: | BEJTWFM003D |
| IC: | 2703H-TWFM003D |
| APPLICANT: | LG Electronics Inc. |

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|------------------------------|--|
| FCC Model(s): | TWFM-B003D |
| IC Model(s): | TWFM-B003D |
| EUT Type: | WI-FI Module |
| Max. RF Output Power: | Ant.0: Wi-Fi 802.11b(19.18 dBm) / Wi-Fi 802.11g (24.25 dBm) / Wi-Fi 802.11n (24.55 dBm) / Wi-Fi 802.11n_40 MHz (17.71 dBm)/ Wi-Fi 802.11a (5745~5825) (21.71 dBm) / Wi-Fi 802.11n (5745~5825) (21.66 dBm)/ Wi-Fi 802.11n_40 MHz (5755~5795) (12.18 dBm) Ant.1: Wi-Fi 802.11b(18.78 dBm) / Wi-Fi 802.11g (24.20 dBm) / Wi-Fi 802.11n (24.27 dBm) / Wi-Fi 802.11n_40 MHz (18.23 dBm)/ Wi-Fi 802.11a (5745~5825) (20.98 dBm) / Wi-Fi 802.11n (5745~5825) (21.04 dBm)/ Wi-Fi 802.11n_40 MHz (5755~5795) (11.50 dBm) |
| Frequency Range: | 2412 MHz - 2462 MHz (2.4 GHz Band) 5745 MHz - 5825 MHz (5.8 GHz Band) |
| Modulation type | CCK/DSSS/OFDM |
| FCC Classification: | Digital Transmission System(DTS) |
| FCC Rule Part(s): | Part 15.247 |
| IC Rule : | RSS-210 , RSS-GEN |
| IC Registration No. : | 5944A-3 |

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
: Jong Seok Lee
Test engineer of RF Team

Approved by
: Sang Jun Lee
Manager of RF Team

This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd.

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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFM003D | IC: 2703H-TWFM003D |

Version

| TEST REPORT NO. | DATE | DESCRIPTION |
|-----------------|------------------|---|
| HCTR1110FR01 | October 18, 2011 | - First Approval Report |
| HCTR1110FR01-1 | October 24, 2011 | - Add Directional Antenna Gain |
| HCTR1110FR01-2 | October 25, 2011 | - Add AC Power Line Conducted Emissions |
| HCTR1110FR01-3 | October 26, 2011 | - Insert OBW test result |
| | | |
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1. GENERAL INFORMATION

Applicant: LG Electronics Inc.
Address: 19-1,Cheongho-ri, Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-do, Korea(451-713)
FCC ID: BEJTWFM003D
EUT Type: WI-FI Module
FCC Model Name: TWFM-B003D
IC Model Name: TWFM-B003D
Date(s) of Tests: September 09,2011 ~ October 15, 2011
Contact person: Name: Min Seok Kim
 Phone #: +82-31-610-5844
Place of Tests: HCT Co., Ltd.
 105-1, Jangam-ri , Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, KOREA.
 (IC Recognition No. : 5944A-3)

2. EUT DESCRIPTION

| | | |
|------------------------------|--|---|
| EUT Type | WI-FI Module | |
| FCC Model Name | TWFM-B003D | |
| IC Model Name | TWFM-B003D | |
| Power Supply | DC 5.0 V | |
| Frequency Range | TX: 2412 MHz ~ 2462 MHz, 5745 MHz ~ 5825 MHz RX: 2412 MHz ~ 2462 MHz, 5745 MHz ~ 5825 MHz | |
| Max. RF Output Power: | Ant.0: | Wi-Fi 802.11b(19.18 dBm) / Wi-Fi 802.11g (24.25 dBm) / Wi-Fi 802.11n (24.55 dBm) / Wi-Fi 802.11n_40 MHz (17.71 dBm)/ Wi-Fi 802.11a (5745~5825) (21.71 dBm) / Wi-Fi 802.11n (5745~5825) (21.66 dBm)/ Wi-Fi 802.11n_40 MHz (5755~5795) (12.18 dBm) |
| | Ant.1: | Wi-Fi 802.11b(18.78 dBm) / Wi-Fi 802.11g (24.20 dBm) / Wi-Fi 802.11n (24.27 dBm) / Wi-Fi 802.11n_40 MHz (18.23 dBm)/ Wi-Fi 802.11a (5745~5825) (20.98 dBm) / Wi-Fi 802.11n (5745~5825) (21.04 dBm)/ Wi-Fi 802.11n_40 MHz (5755~5795) (11.50 dBm) |
| Modulation Type | DSSS/CCK(802.11b), OFDM(802.11a, 802.11g, 802.11n) | |
| Antenna Specification | Ant.0: | Manufacturer: LGINNOTEK Antenna type: PIFA Antenna Peak Gain : 1.94 dBi (2.4 GHz) / 2.49 dBi (5.8 GHz) |
| | Ant.1: | Manufacturer: LGINNOTEK Antenna type: PIFA Antenna Peak Gain : 1.94 dBi (2.4 GHz) / 1.45 dBi (5.8 GHz) |
| | Directional Antenna Gain | 4.95 dBi(802.11g_2.4 GHz), 5.0 dBi(802.11a_5.8 GHz), 1.94 dBi(802.11n_2.4 GHz), 2.0 dBi (802.11n_5.8 GHz) |

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3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz(ANSI C63.4-2003)

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)

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 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, 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 March 02, 2011 (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."

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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.”

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

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

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7. TEST RESULT

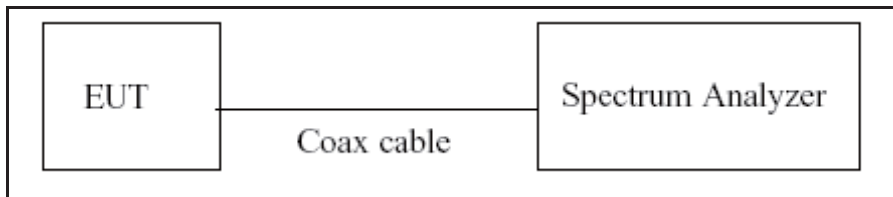
7.1 6dB BANDWIDTH MEASUREMENT

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

RBW: 100 kHz

VBW: 100 kHz

SPAN: 40 MHz

■ TEST RESULTS_Ant. 0

Conducted 6dB Bandwidth Measurements for 802.11b

| 802.11b Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 2412 | 1 | 7.497 | 0.5 | Pass |
| 2437 | 6 | 7.976 | 0.5 | Pass |
| 2462 | 11 | 8.031 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11g

| 802.11g Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 2412 | 1 | 14.510 | 0.5 | Pass |
| 2437 | 6 | 15.030 | 0.5 | Pass |
| 2462 | 11 | 15.144 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11n_20 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 2412 | 1 | 16.000 | 0.5 | Pass |
| 2437 | 6 | 16.950 | 0.5 | Pass |
| 2462 | 11 | 14.711 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11n_40 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 2422 | 3 | 36.409 | 0.5 | Pass |
| 2437 | 6 | 36.124 | 0.5 | Pass |
| 2452 | 9 | 36.085 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11a

| 802.11a Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 5745 | 149 | 15.500 | 0.5 | Pass |
| 5785 | 157 | 16.050 | 0.5 | Pass |
| 5825 | 165 | 15.720 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11n_20 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 5745 | 149 | 15.420 | 0.5 | Pass |
| 5785 | 157 | 16.040 | 0.5 | Pass |
| 5825 | 165 | 15.160 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11n_40 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 5755 | 151 | 36.460 | 0.5 | Pass |
| 5795 | 159 | 36.400 | 0.5 | Pass |

■ TEST RESULTS_Ant. 1

Conducted 6dB Bandwidth Measurements for 802.11b

| 802.11b Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 2412 | 1 | 8.137 | 0.5 | Pass |
| 2437 | 6 | 8.010 | 0.5 | Pass |
| 2462 | 11 | 8.056 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11g

| 802.11g Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 2412 | 1 | 15.100 | 0.5 | Pass |
| 2437 | 6 | 15.730 | 0.5 | Pass |
| 2462 | 11 | 15.154 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11n _20 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 2412 | 1 | 16.910 | 0.5 | Pass |
| 2437 | 6 | 17.180 | 0.5 | Pass |
| 2462 | 11 | 16.115 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11n_40 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 2422 | 3 | 36.443 | 0.5 | Pass |
| 2437 | 6 | 35.795 | 0.5 | Pass |
| 2452 | 9 | 36.366 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11a

| 802.11a Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 5745 | 149 | 15.630 | 0.5 | Pass |
| 5785 | 157 | 15.710 | 0.5 | Pass |
| 5825 | 165 | 15.390 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11n_20 MHz BW

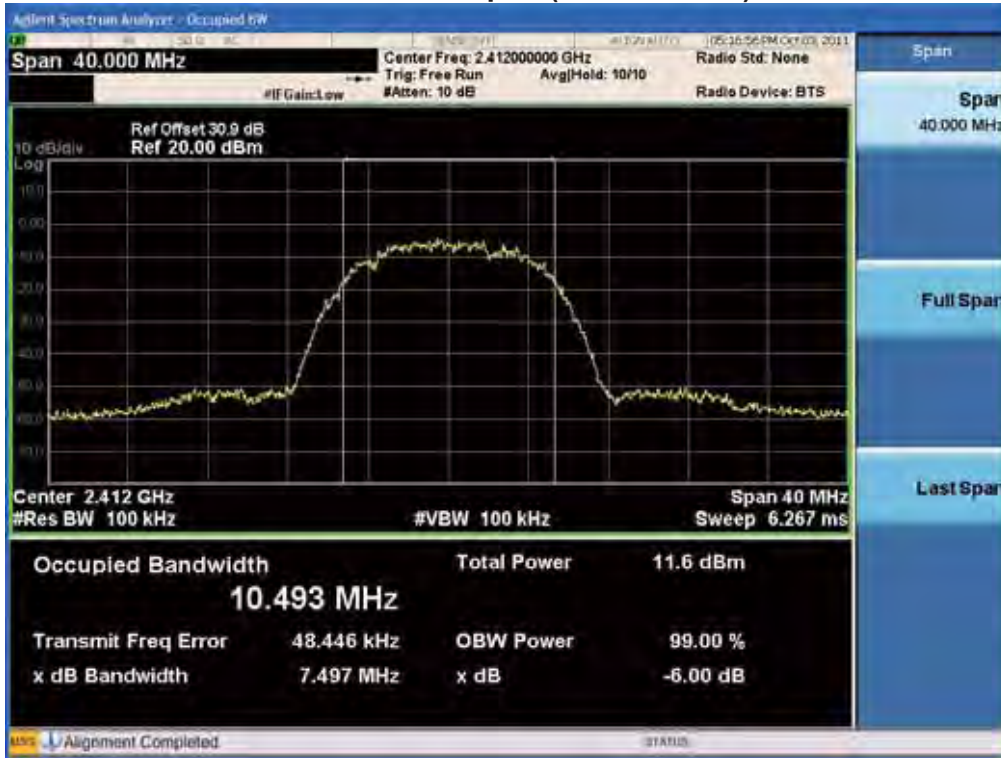
| 802.11n Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 5745 | 149 | 16.360 | 0.5 | Pass |
| 5785 | 157 | 15.440 | 0.5 | Pass |
| 5825 | 165 | 15.410 | 0.5 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11n_40 MHz BW

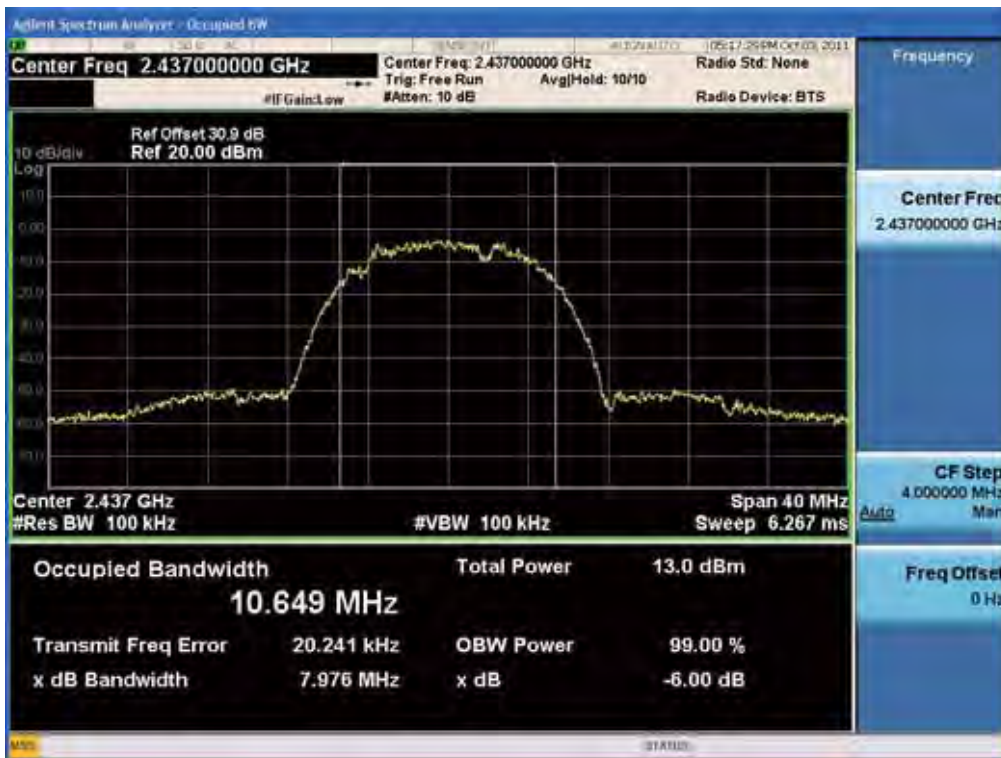
| 802.11n Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 5755 | 151 | 36.500 | 0.5 | Pass |
| 5795 | 159 | 36.520 | 0.5 | Pass |

RESULT PLOTS_Ant.0

6dB Bandwidth plot (802.11b-CH 1)

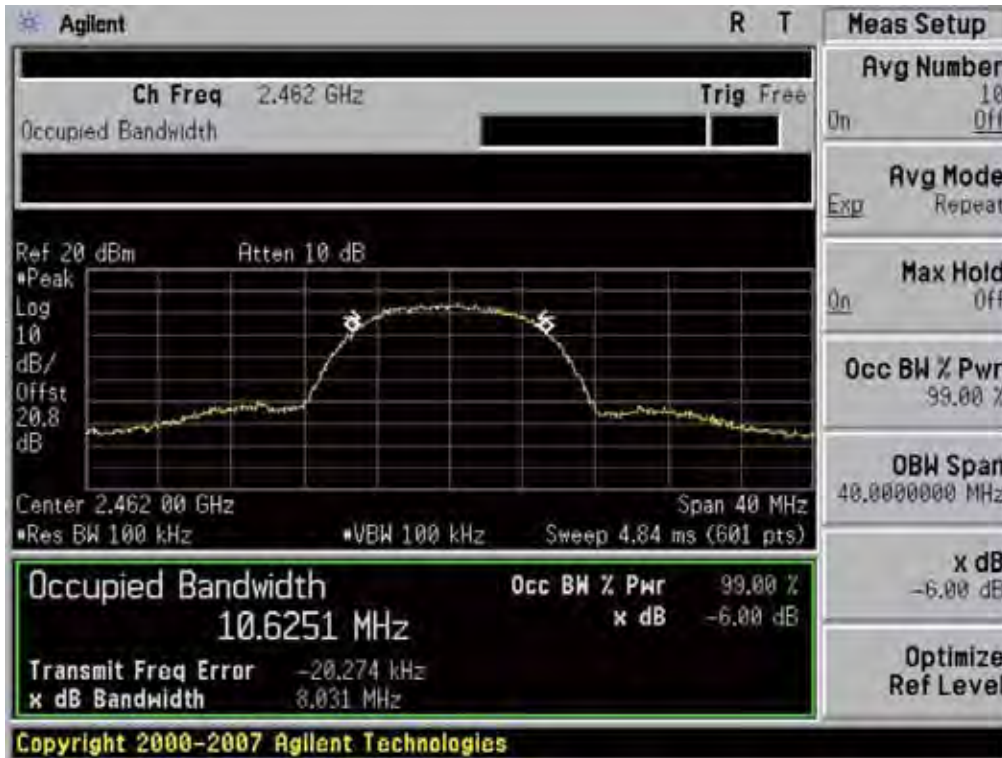


6dB Bandwidth plot (802.11b-CH 6)

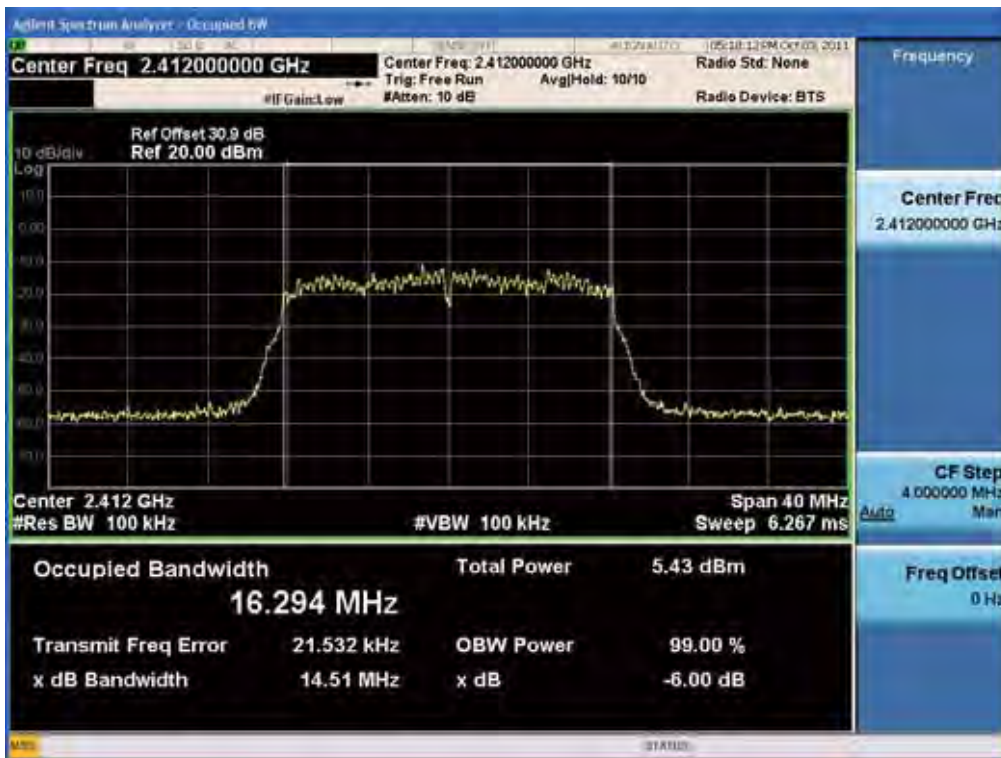


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6dB Bandwidth plot (802.11b-CH 11)

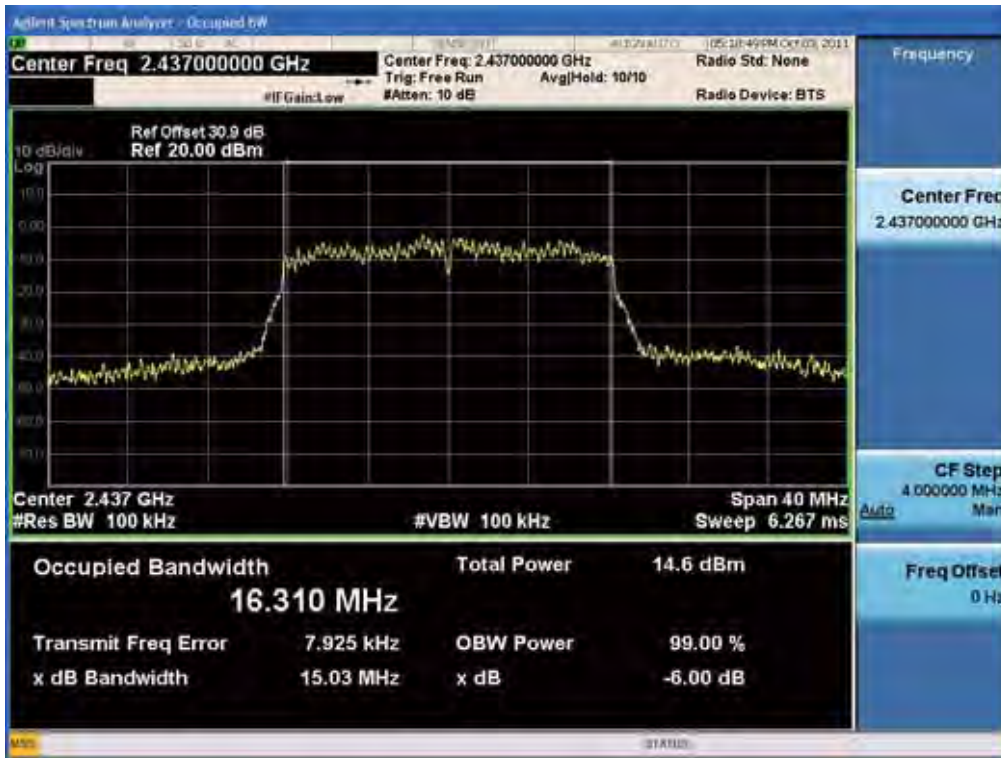


6dB Bandwidth plot (802.11g-CH 1)

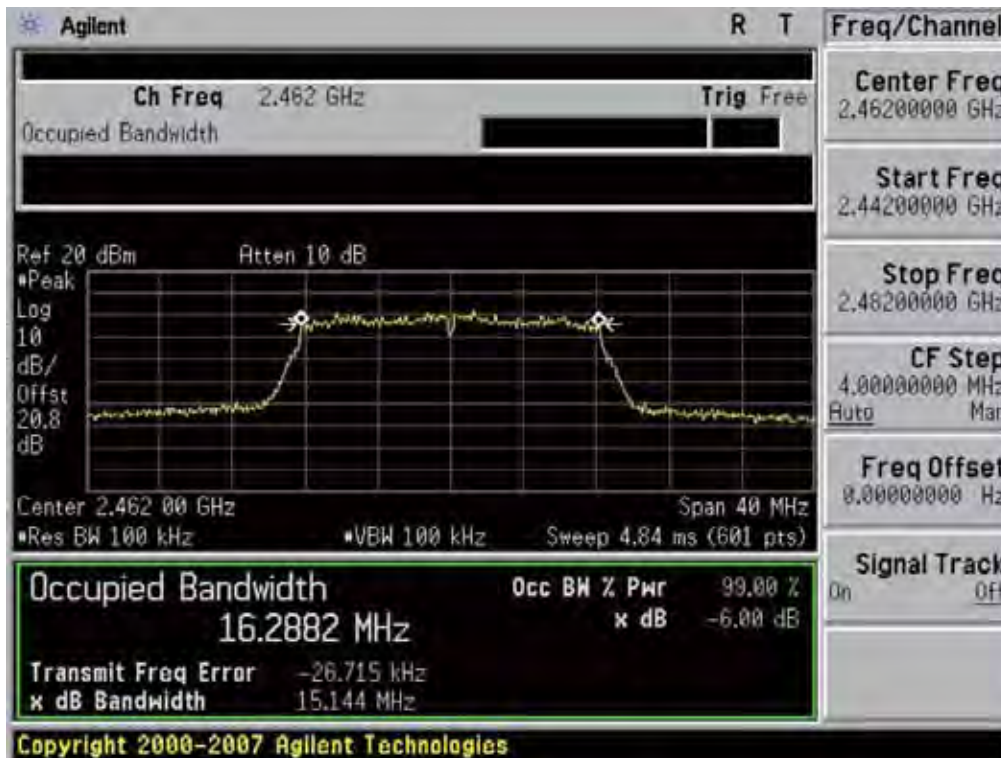


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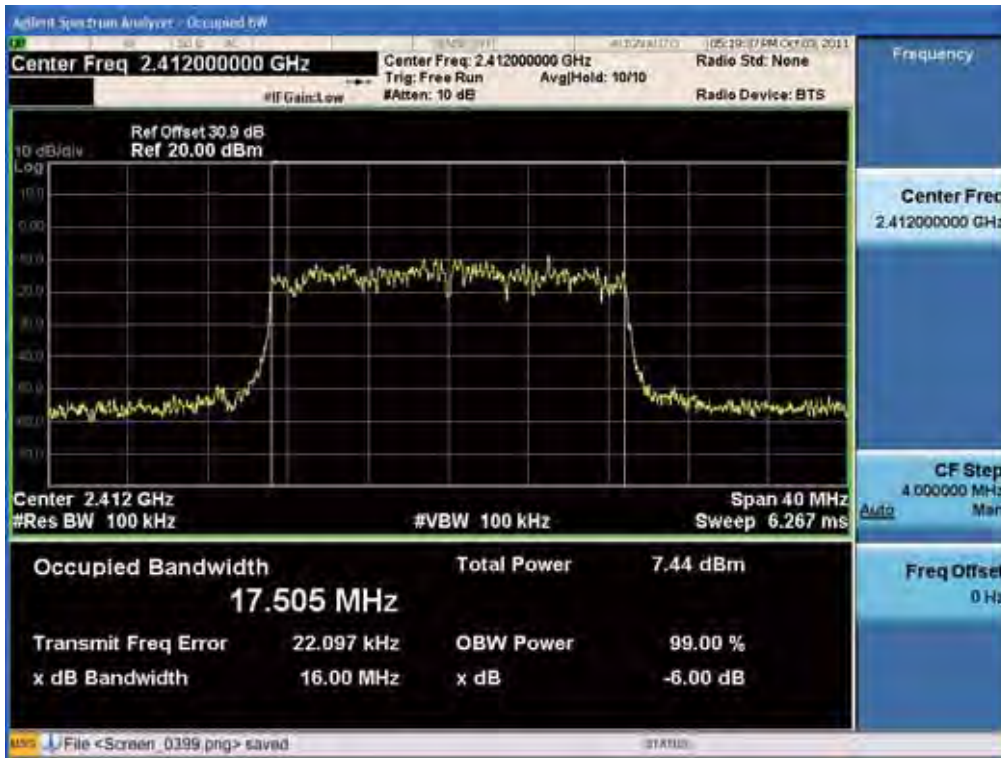
6dB Bandwidth plot (802.11g-CH 6)



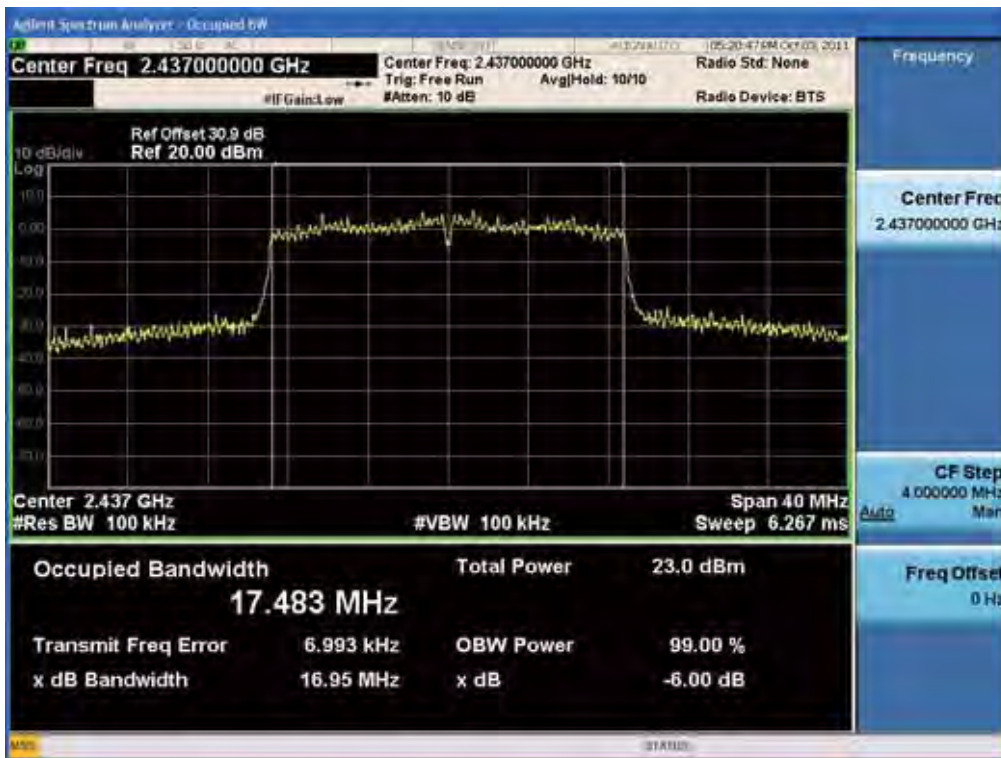
6dB Bandwidth plot (802.11g-CH 11)



6dB Bandwidth plot (802.11n-CH 1)_20 MHz BW

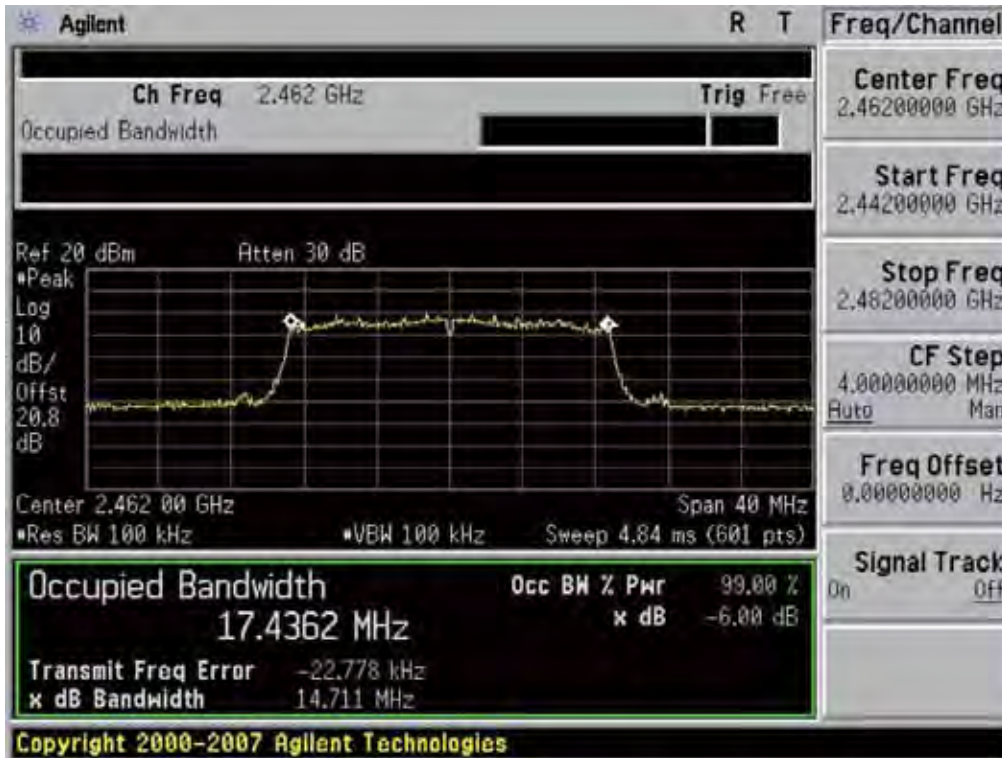


6dB Bandwidth plot (802.11n-CH 6)_20 MHz BW

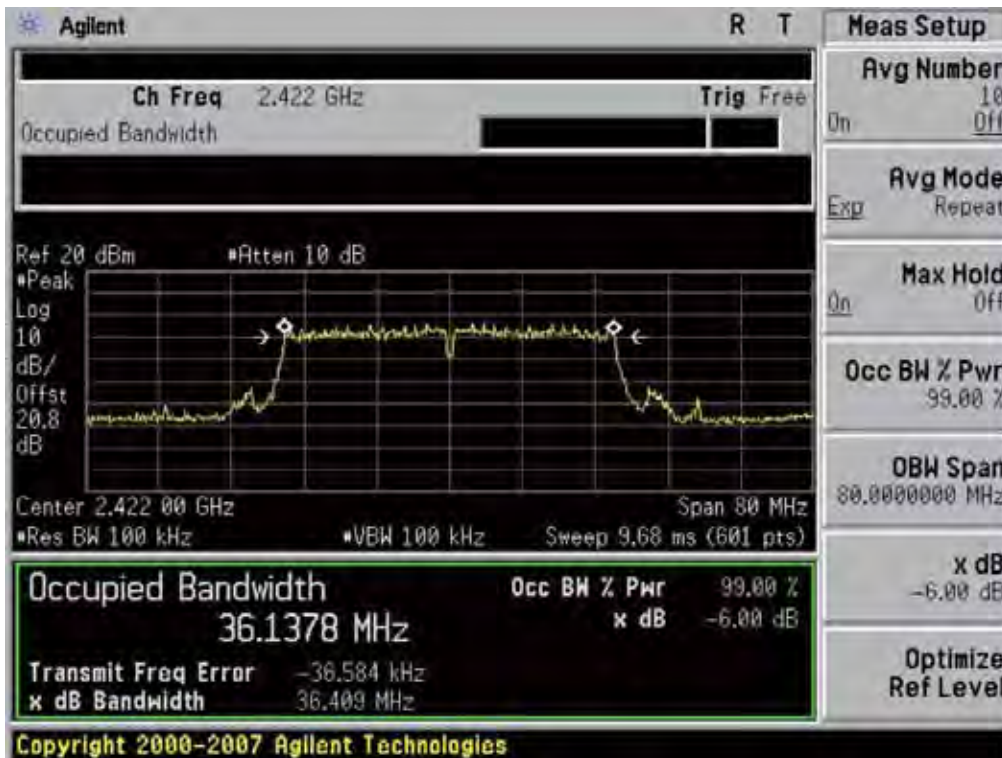


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6dB Bandwidth plot (802.11n-CH 11) _20 MHz BW

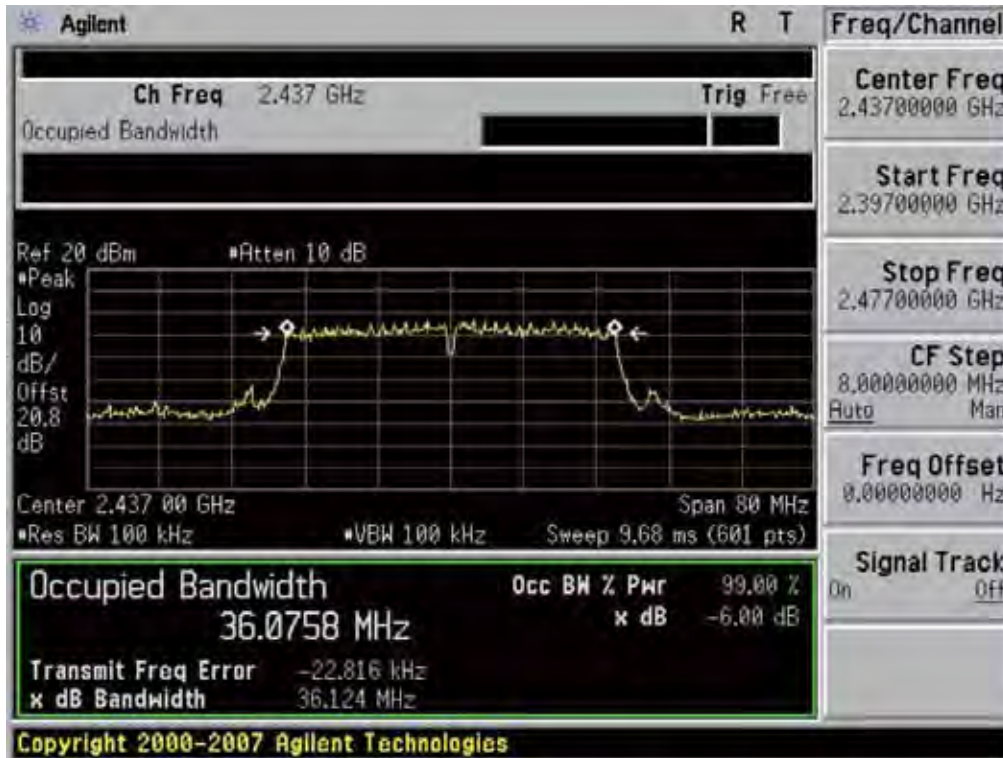


6dB Bandwidth plot (802.11n-CH 3)_40 MHz BW

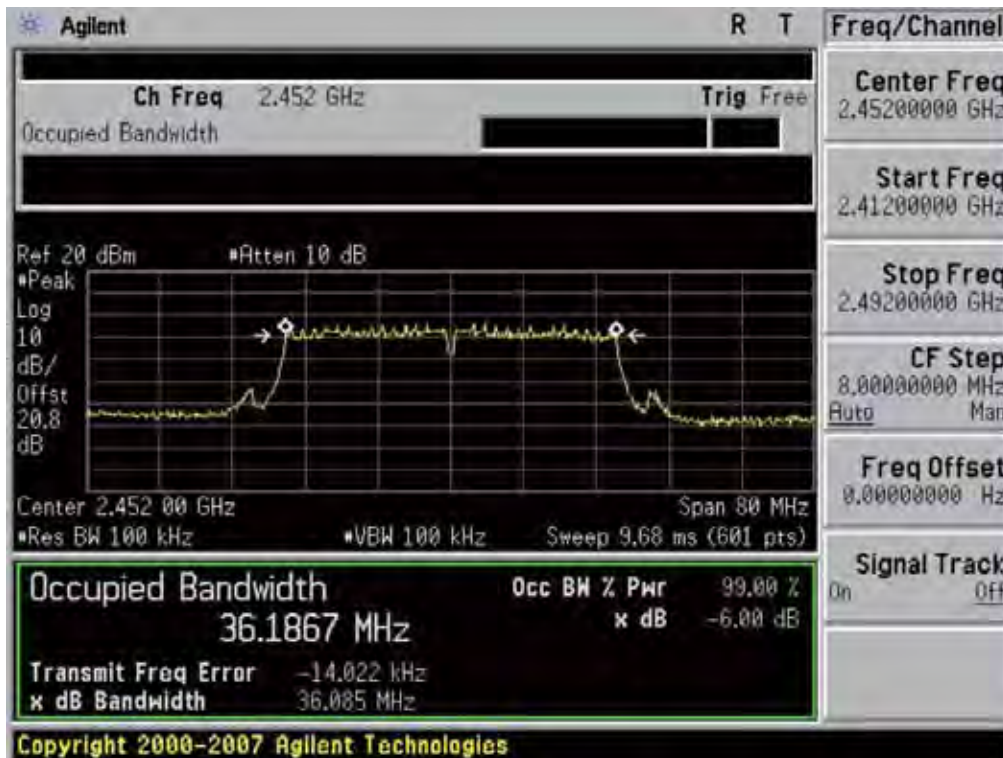


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6dB Bandwidth plot (802.11n-CH 6) _40 MHz BW

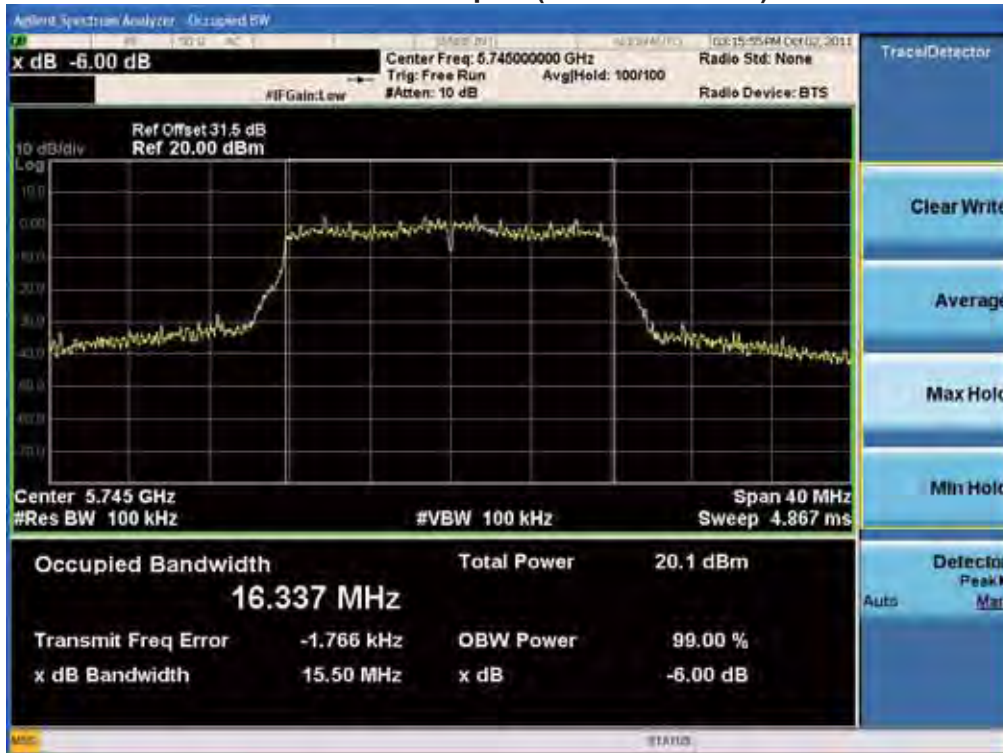


6dB Bandwidth plot (802.11n-CH 9) _40 MHz BW

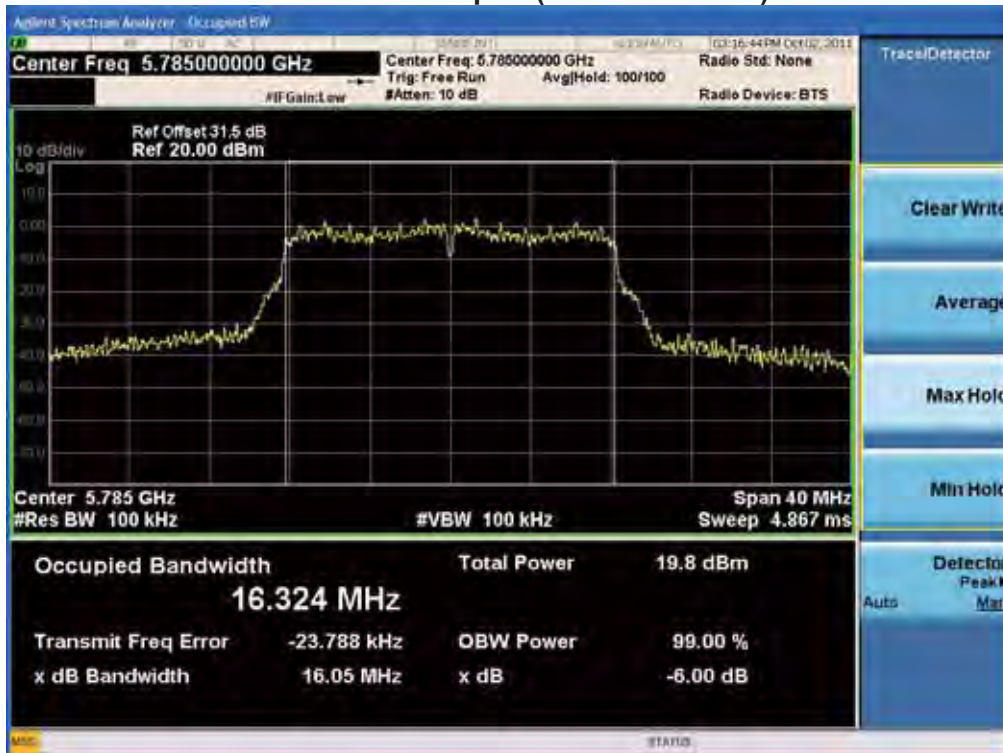


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6dB Bandwidth plot (802.11a-CH 149)

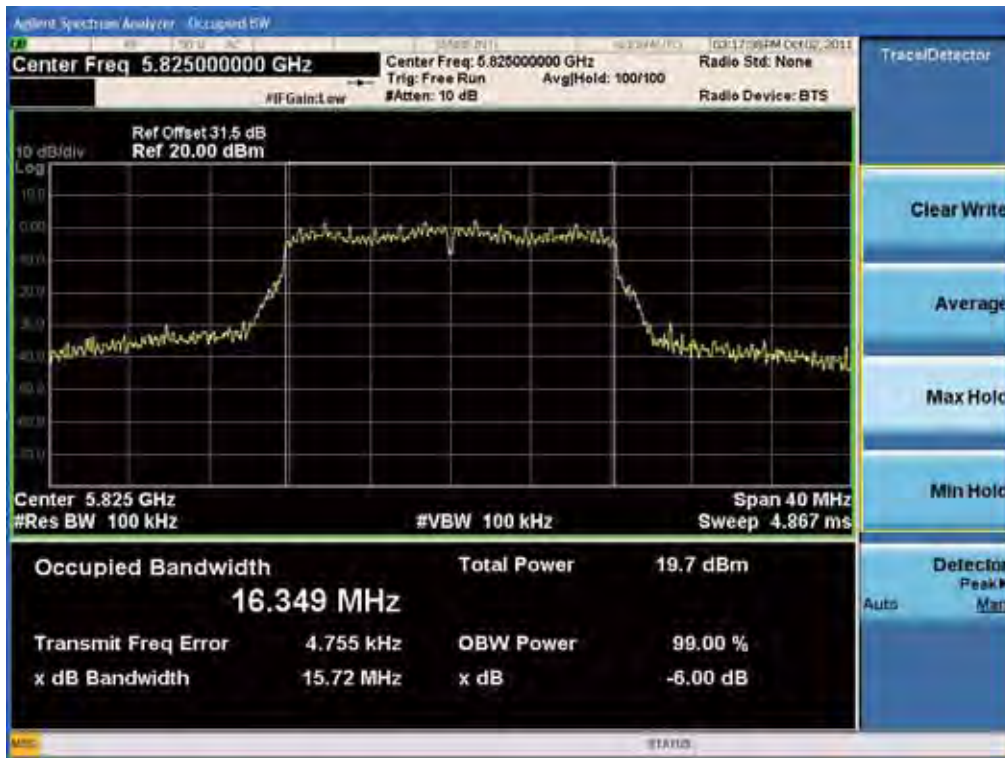


6dB Bandwidth plot (802.11a-CH 157)

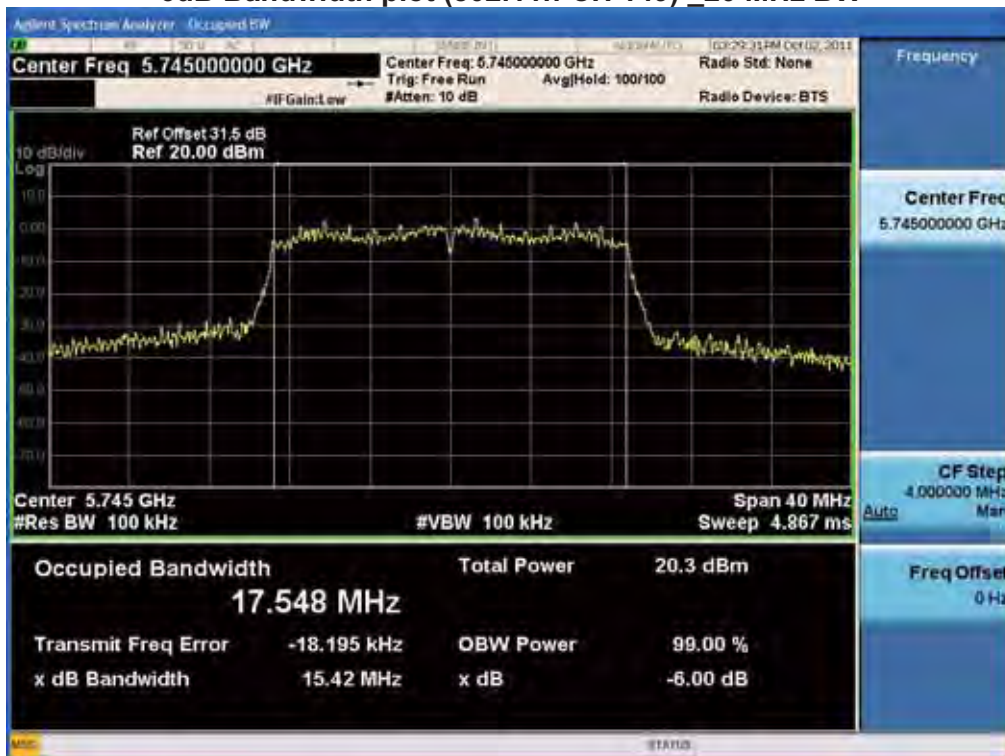


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6dB Bandwidth plot (802.11a-CH 165)

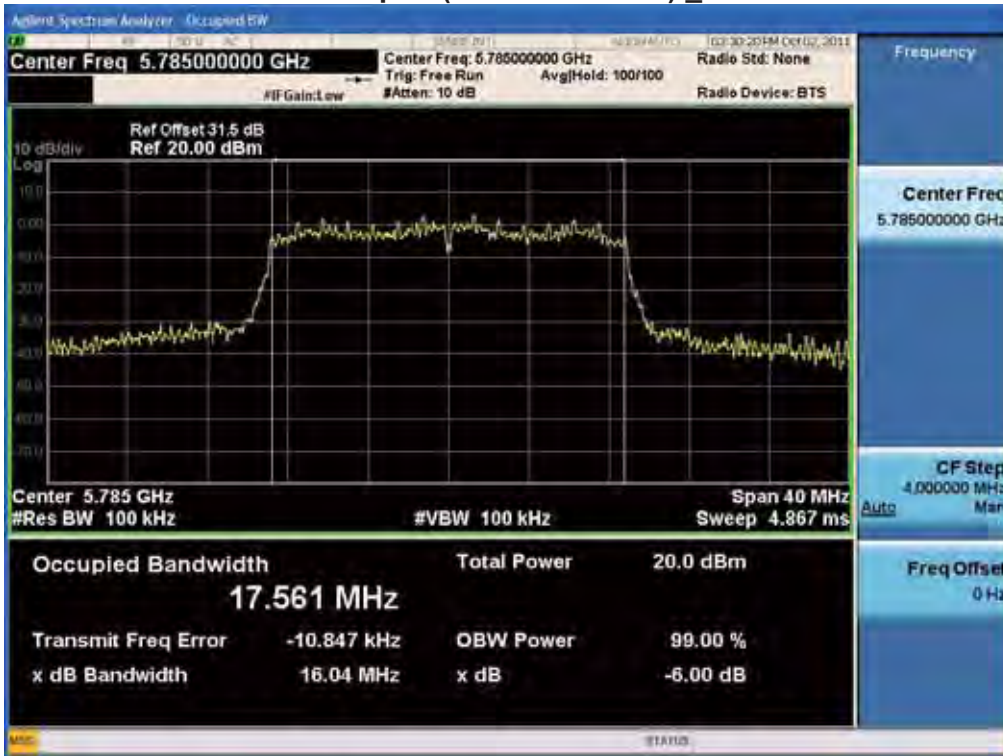


6dB Bandwidth plot (802.11n-CH 149) _20 MHz BW

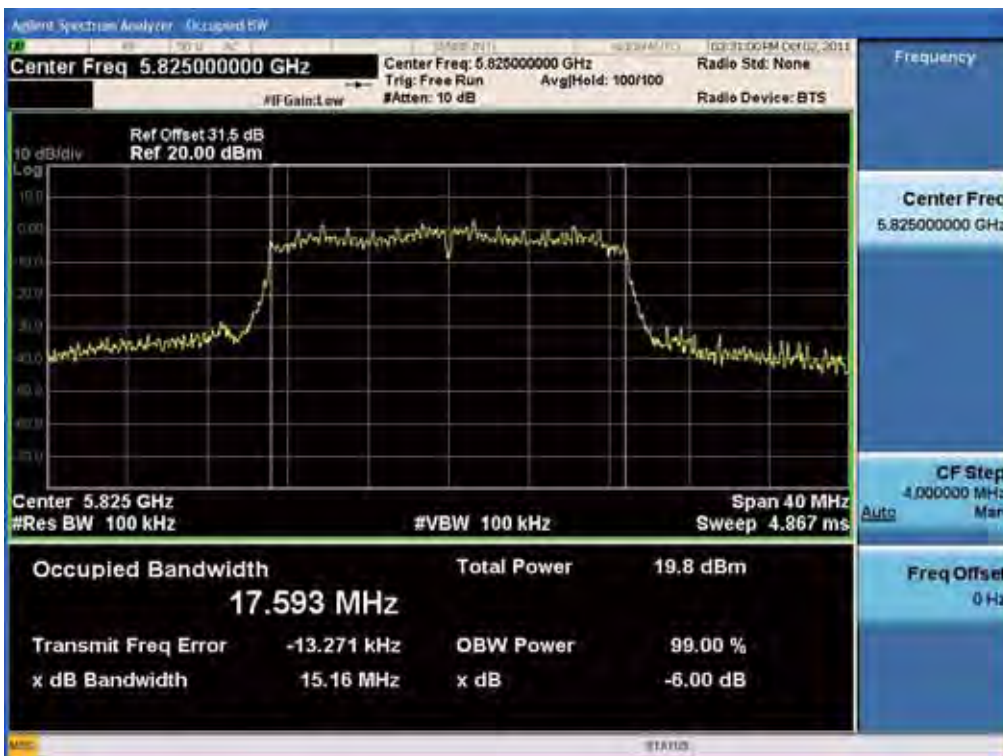


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|-----------------------------------|------------------------------------|------------------------|------------------------|--|
| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: Wi-Fi Module | FCC ID: BEJTWFB003D | IC: 2703H-TWFB003D |

6dB Bandwidth plot (802.11n-CH 157) _20 MHz BW

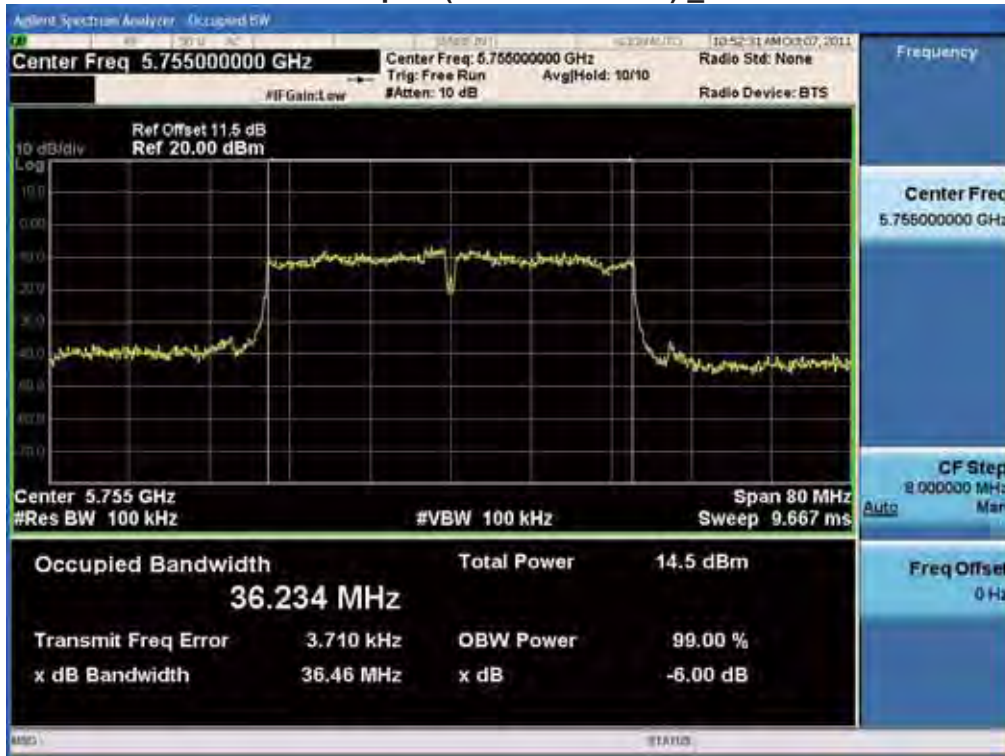


6dB Bandwidth plot (802.11n-CH 165) _20 MHz BW

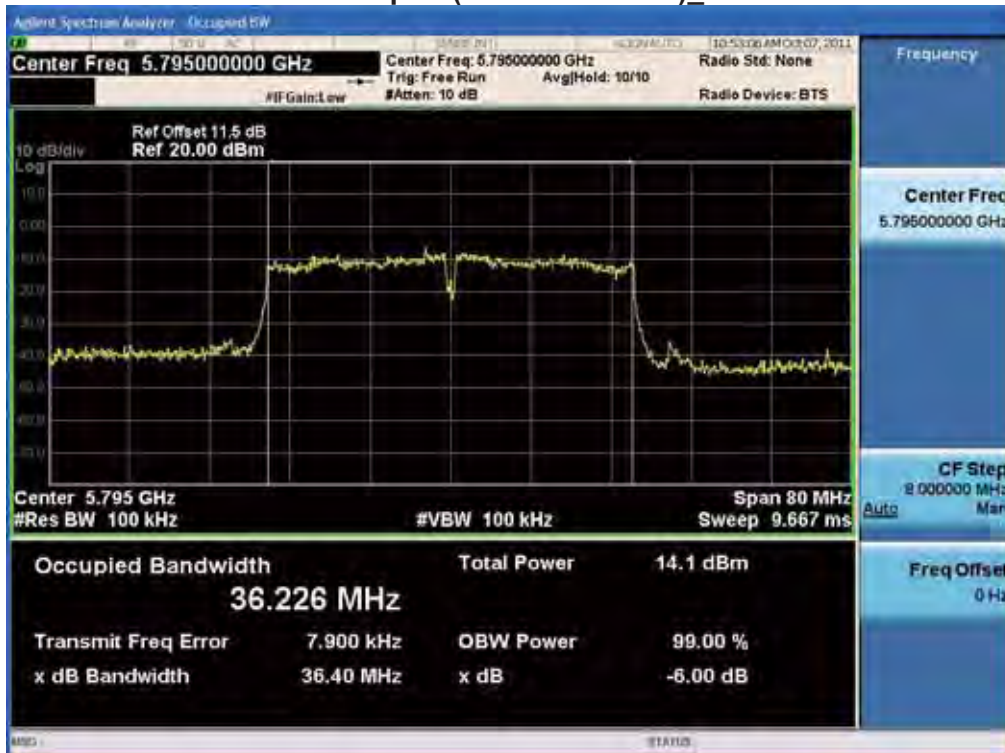


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|-----------------------------------|------------------------------------|------------------------|------------------------|--|
| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: Wi-Fi Module | FCC ID: BEJTWFB003D | IC: 2703H-TWFB003D |

6dB Bandwidth plot (802.11n-CH 151)_40 MHz BW



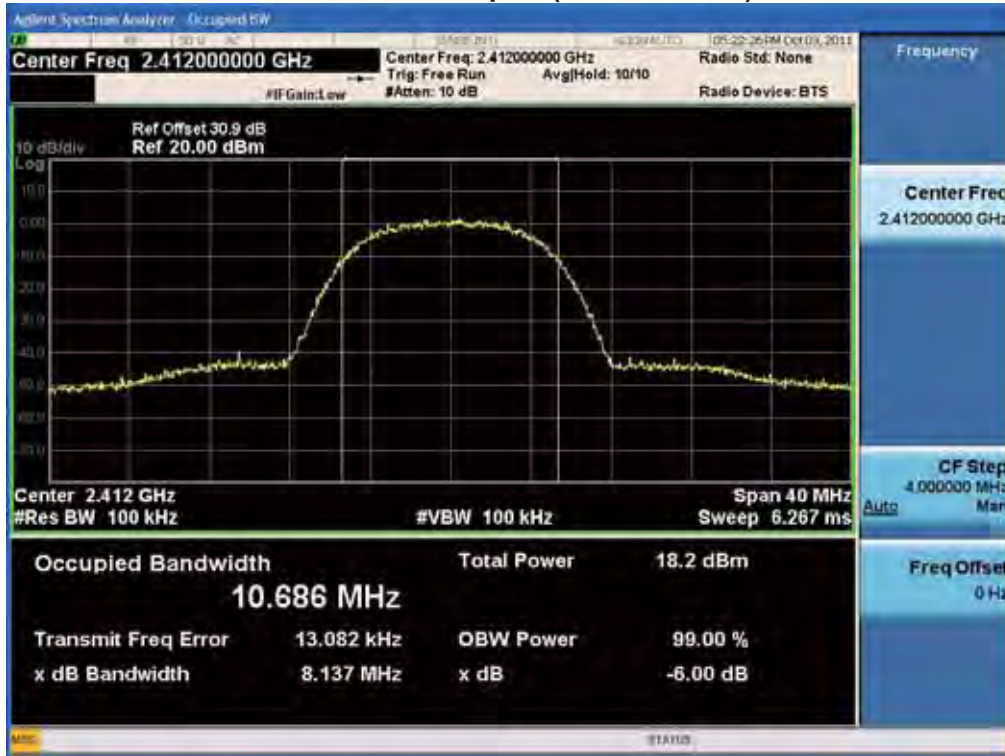
6 dB Bandwidth plot (802.11n-CH 159)_40 MHz BW



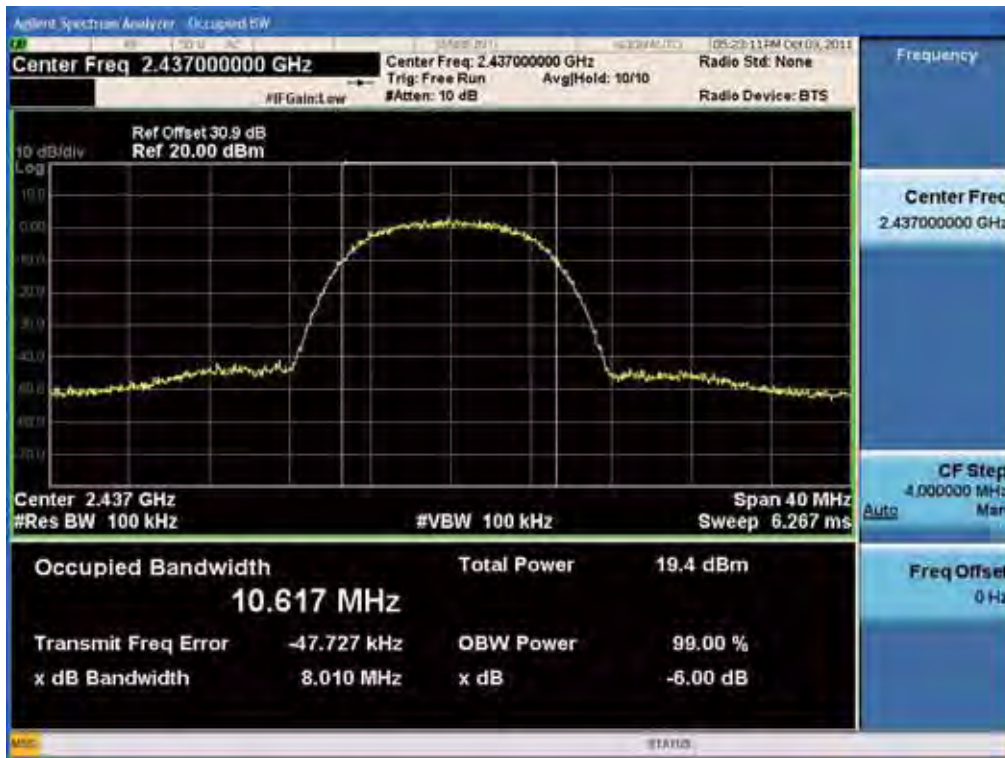
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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: Wi-Fi Module | FCC ID: BEJTWFB003D | IC: 2703H-TWFB003D |

RESULT PLOTS_Ant.1

6dB Bandwidth plot (802.11b-CH 1)

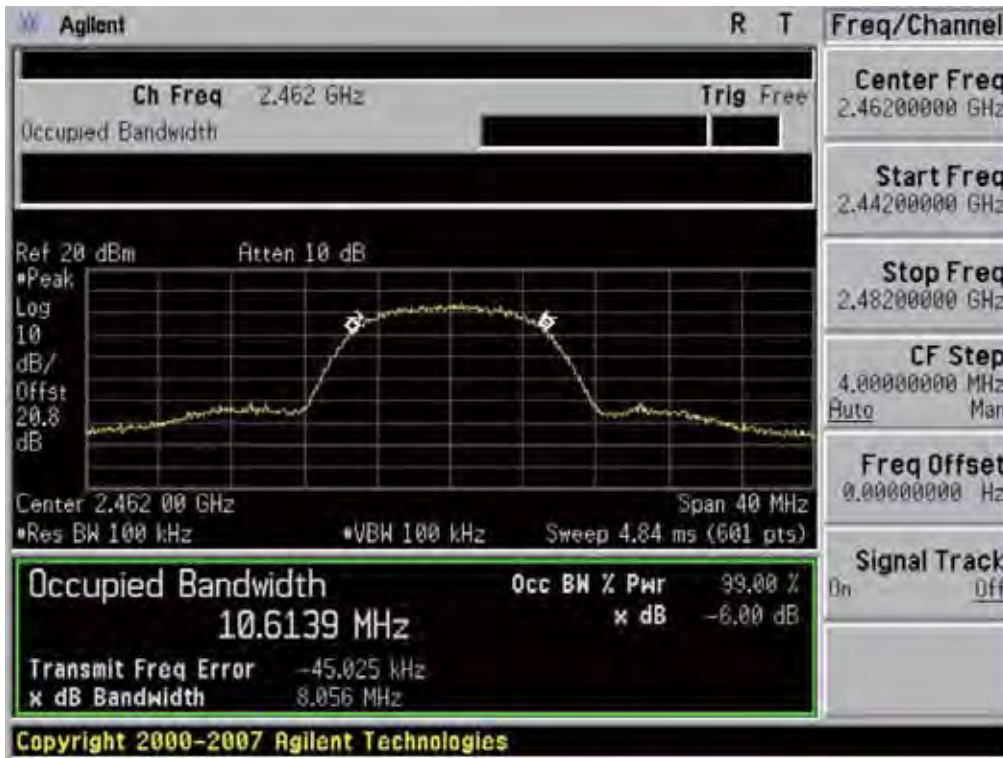


6dB Bandwidth plot (802.11b-CH 6)

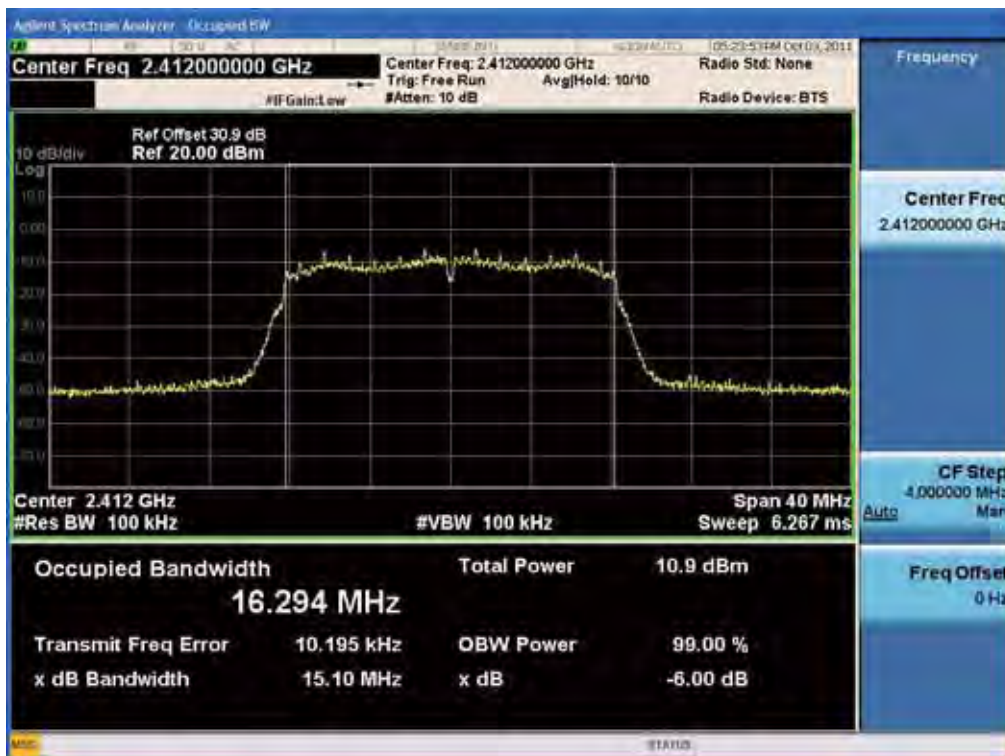


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

6dB Bandwidth plot (802.11b-CH 11)

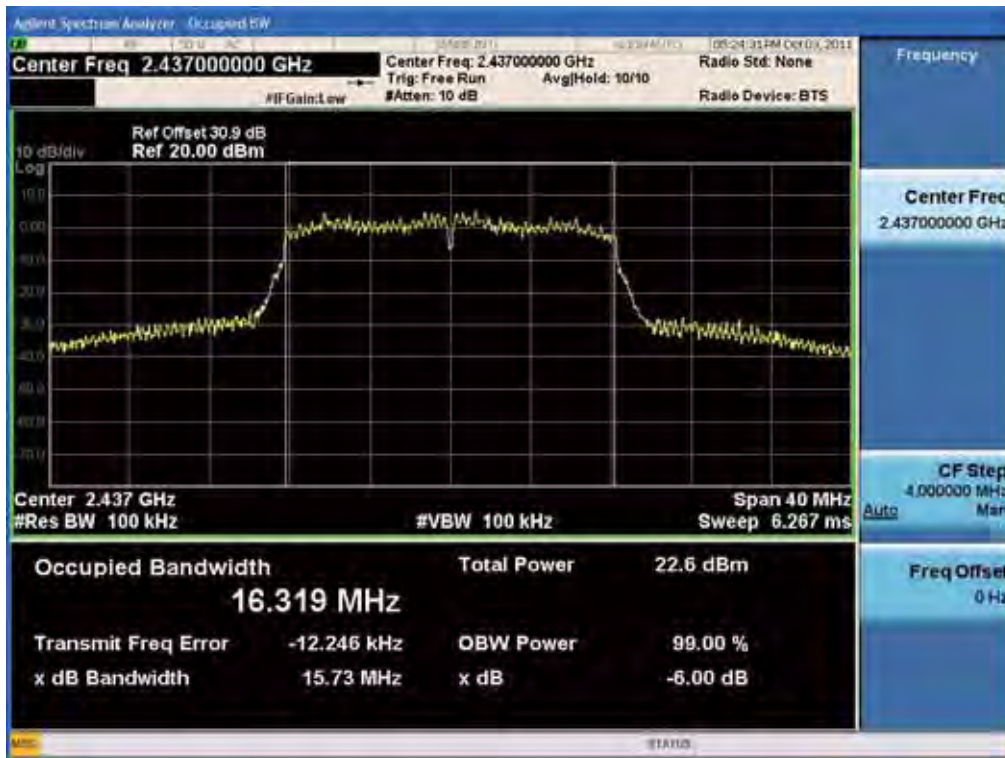


6dB Bandwidth plot (802.11g-CH 1)

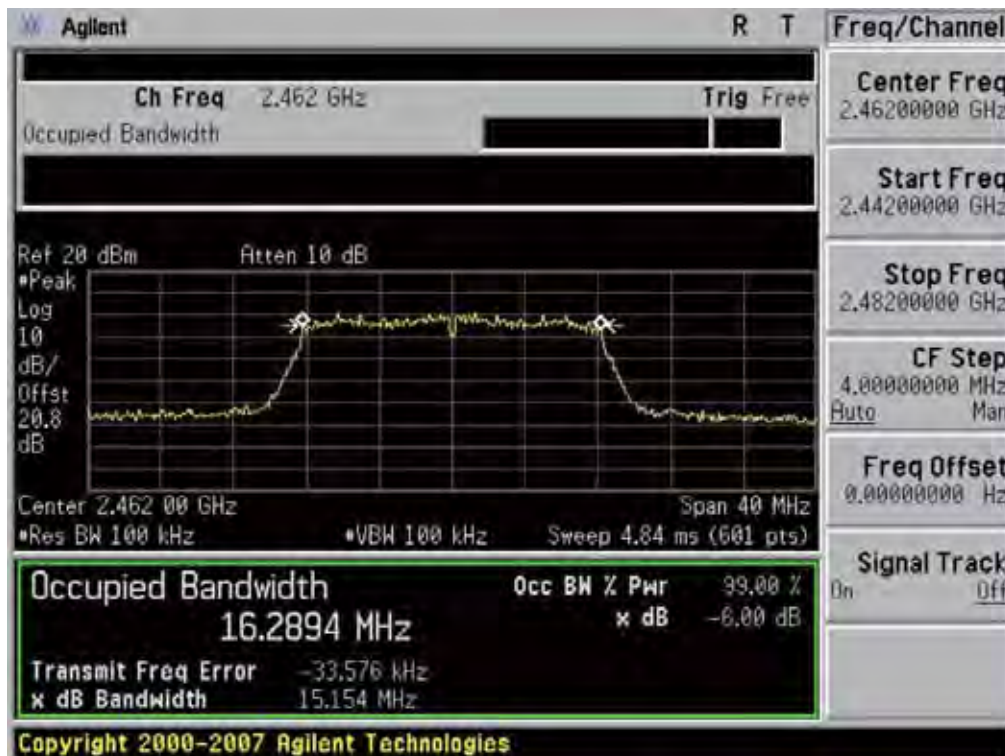


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

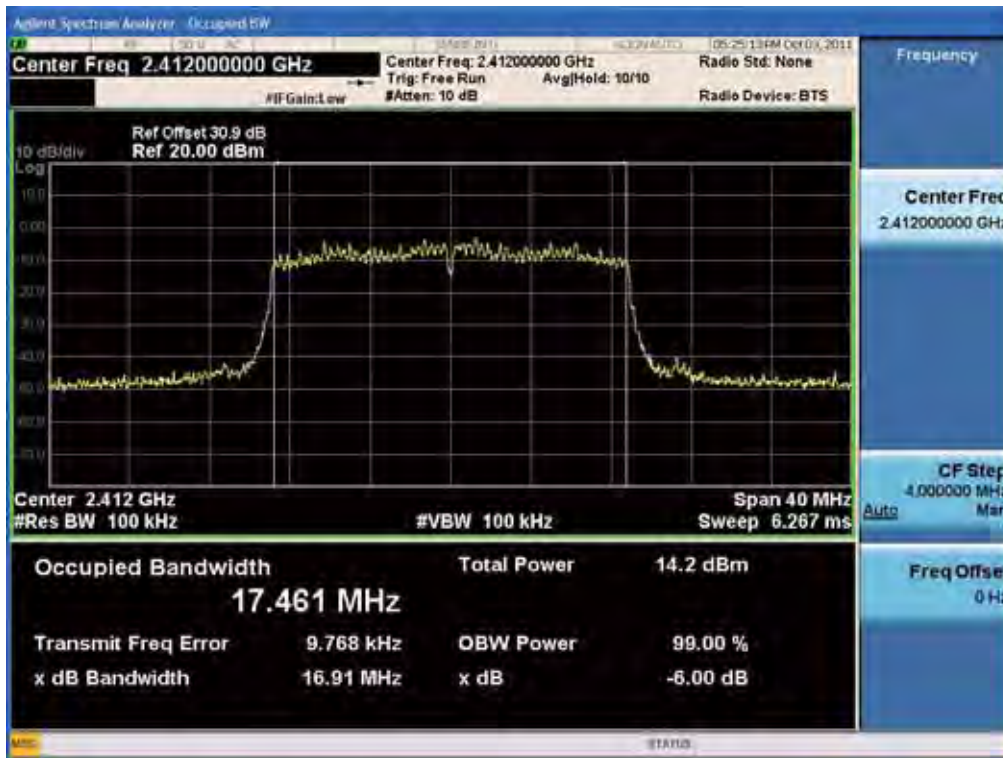
6dB Bandwidth plot (802.11g-CH 6)



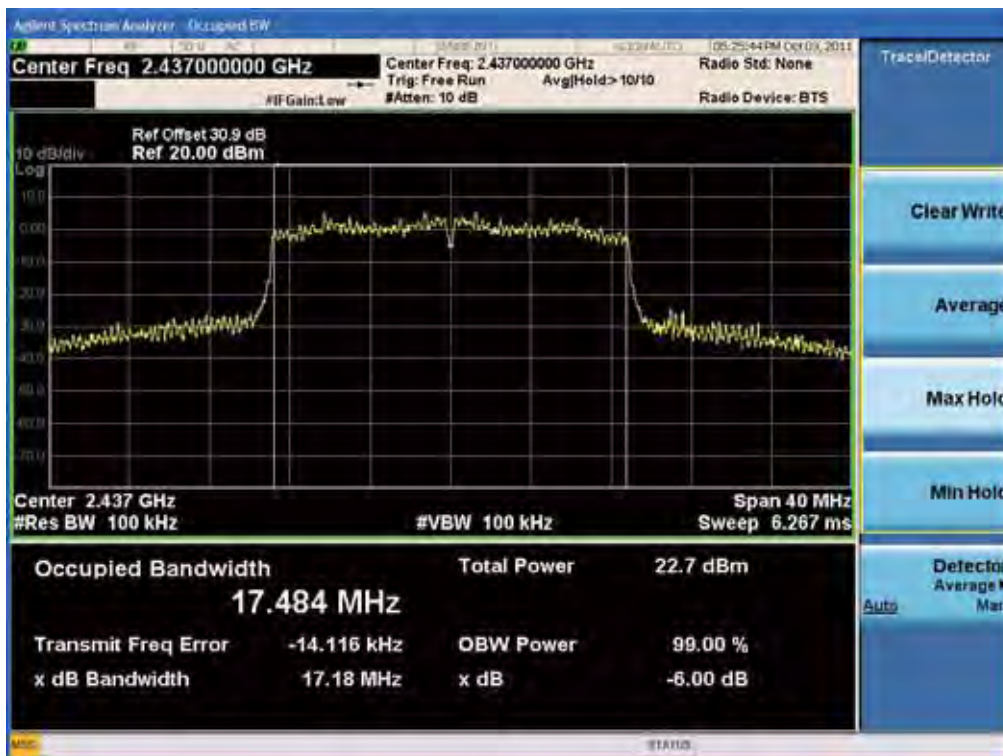
6dB Bandwidth plot (802.11g-CH 11)



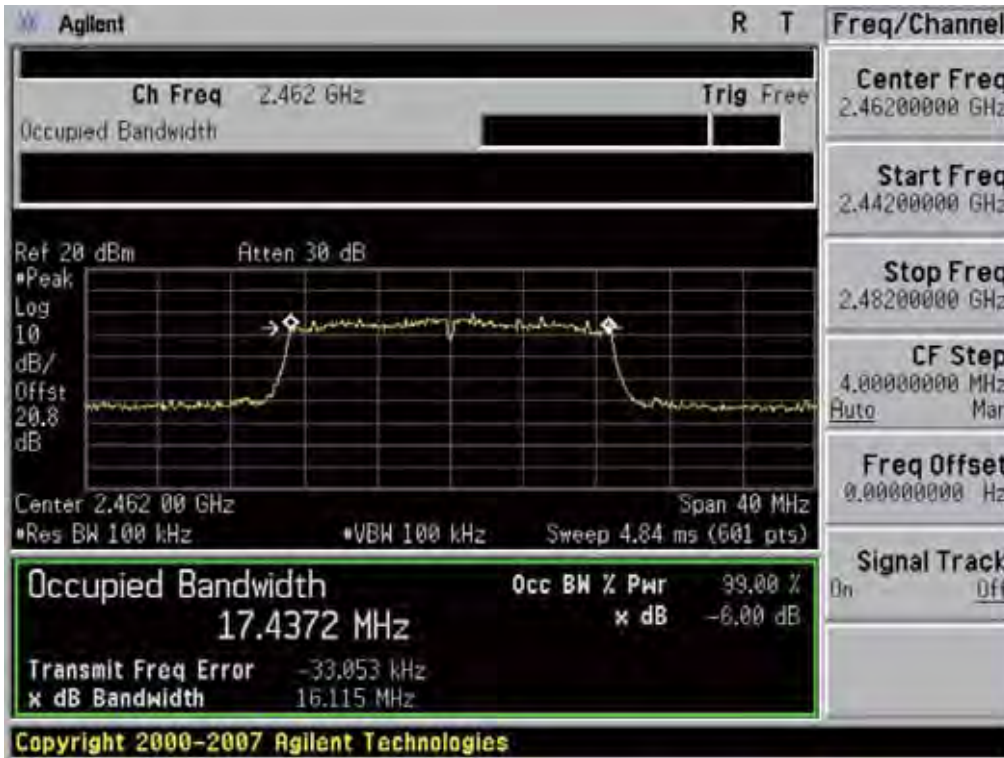
6dB Bandwidth plot (802.11n-CH 1)_20 MHz BW



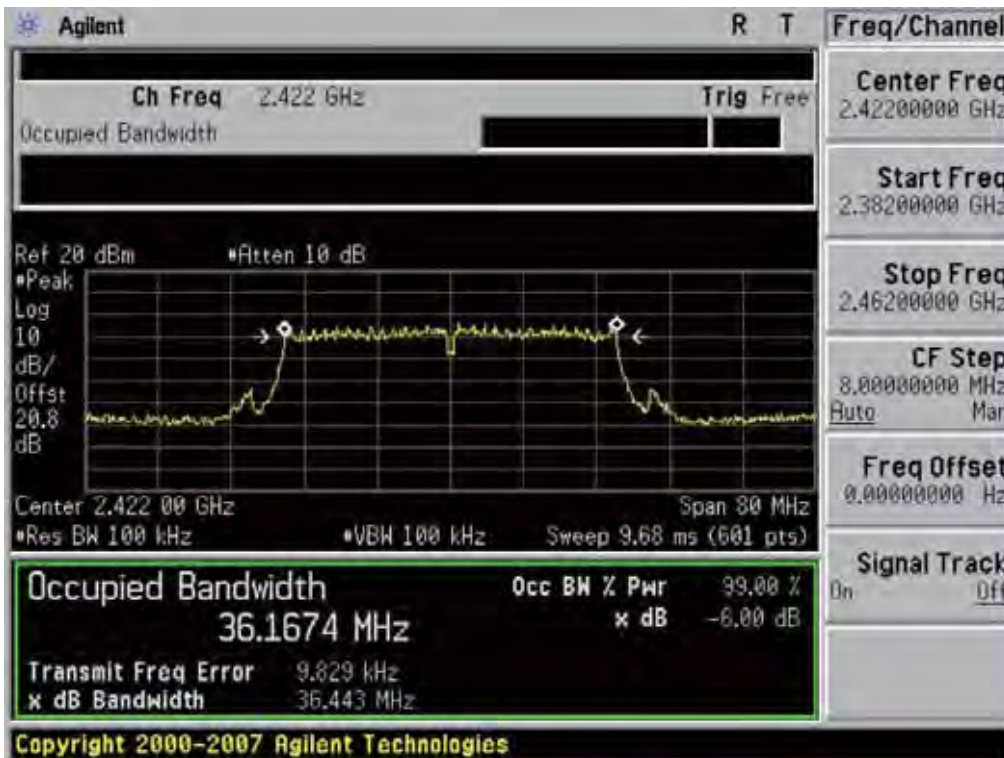
6dB Bandwidth plot (802.11n-CH 6)_20 MHz BW



6dB Bandwidth plot (802.11n-CH 11)_20 MHz BW

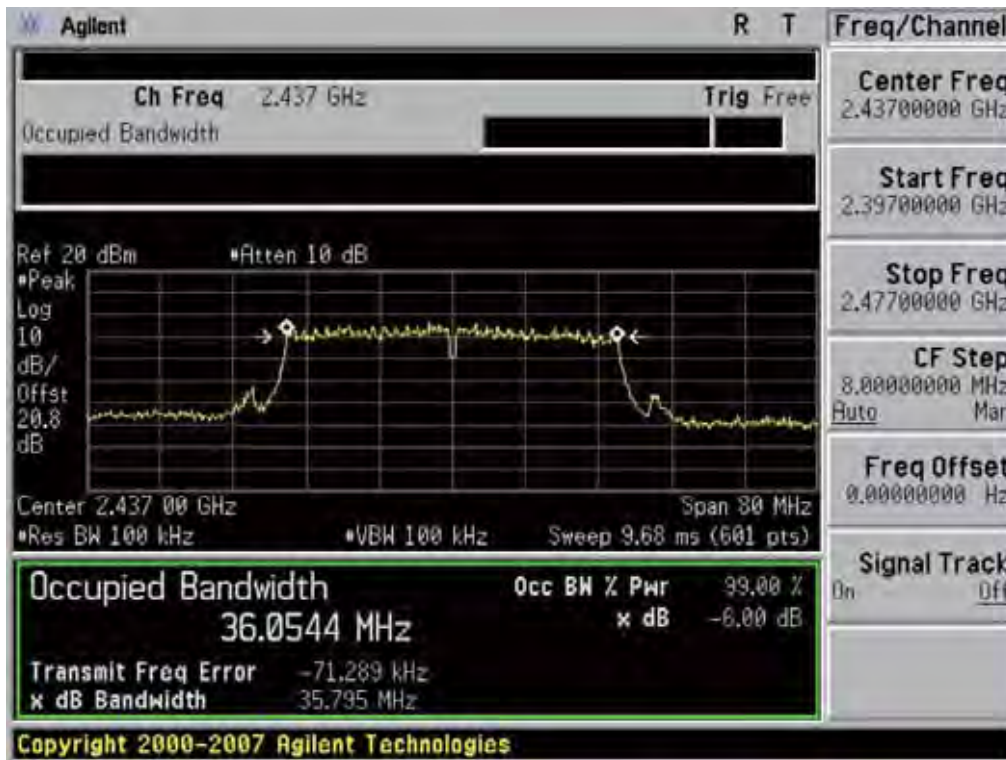


6dB Bandwidth plot (802.11n-CH 3)_40 MHz BW

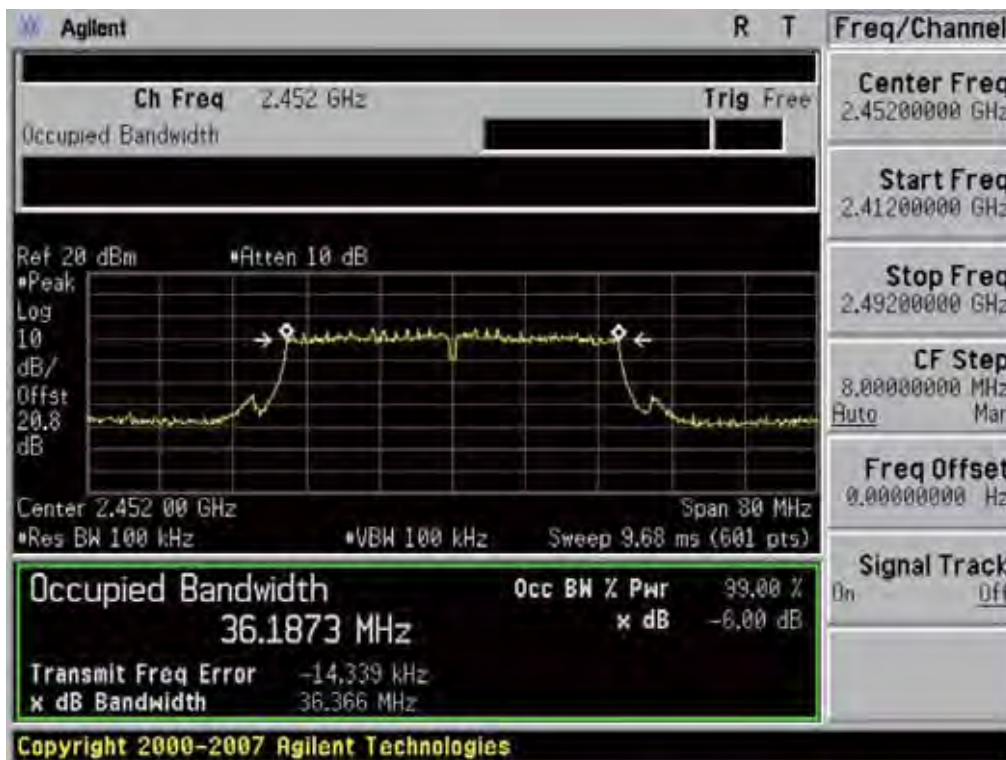


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|-----------------------------------|------------------------------------|------------------------|-------------------------|--|
| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

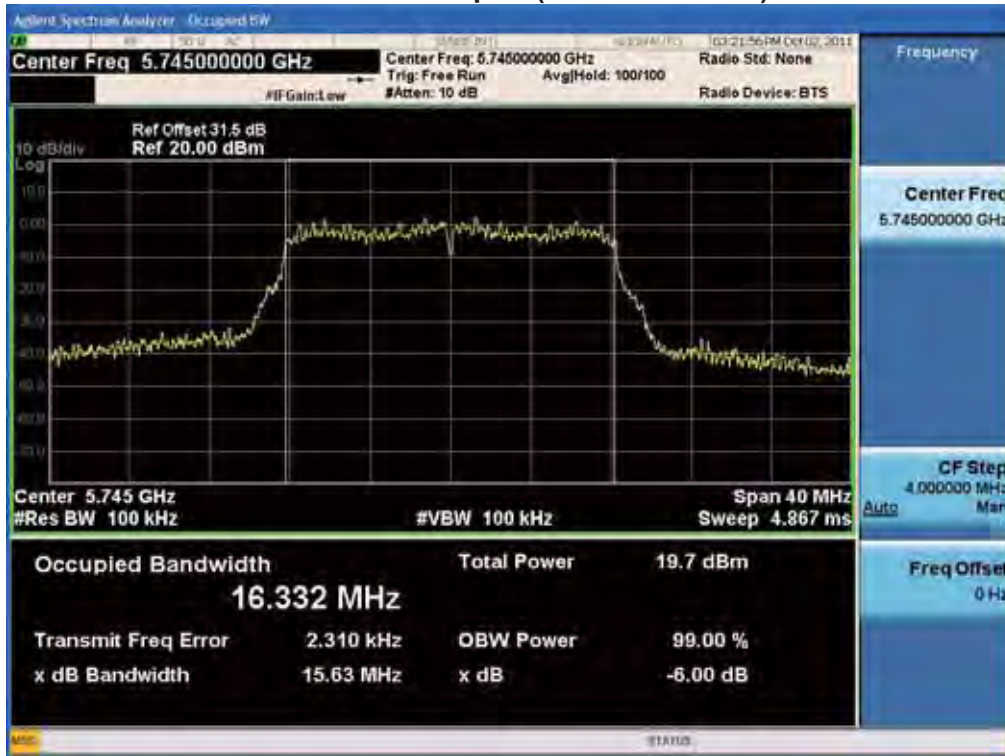
6dB Bandwidth plot (802.11n-CH 6) _40 MHz BW



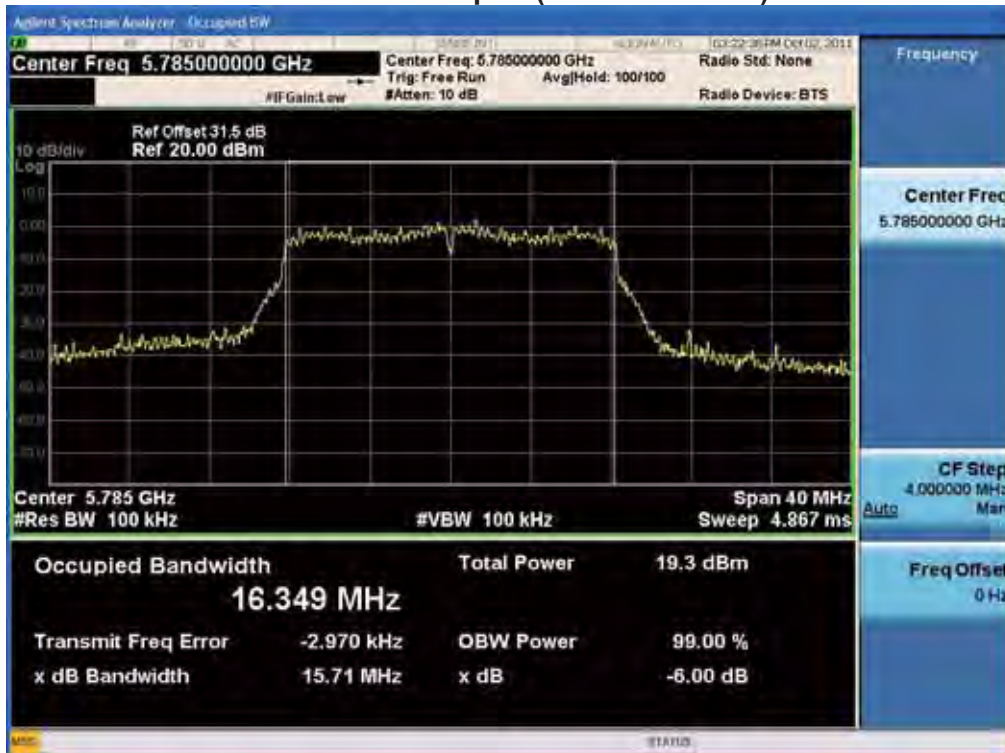
6dB Bandwidth plot (802.11n-CH 9) _40 MHz BW



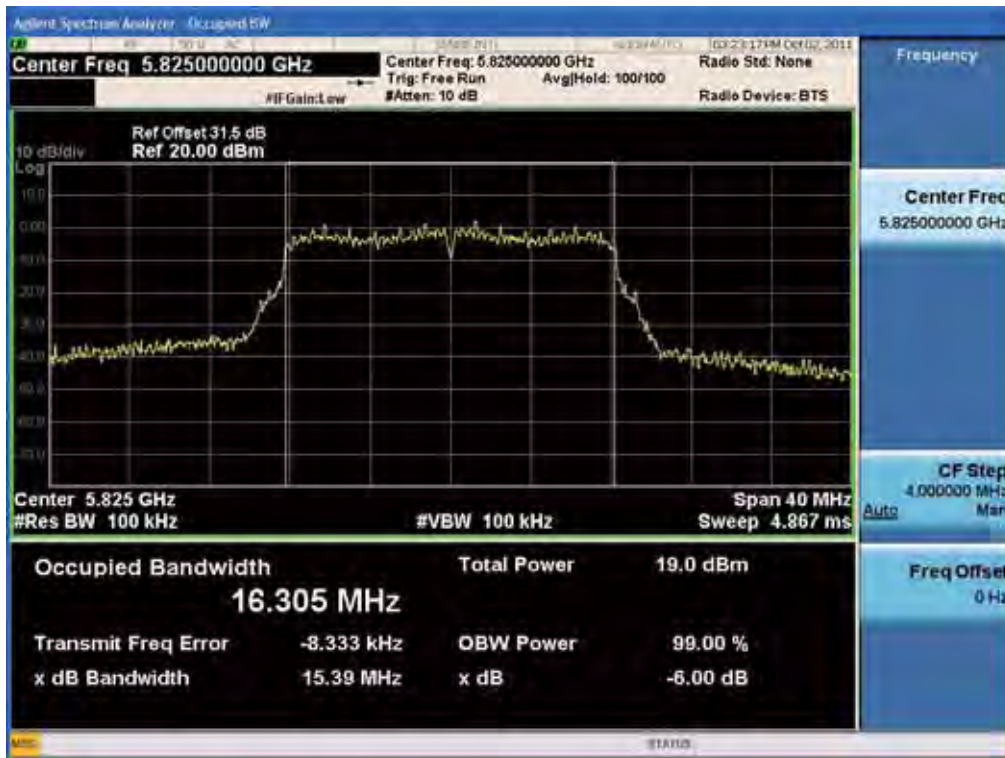
6dB Bandwidth plot (802.11a-CH 149)



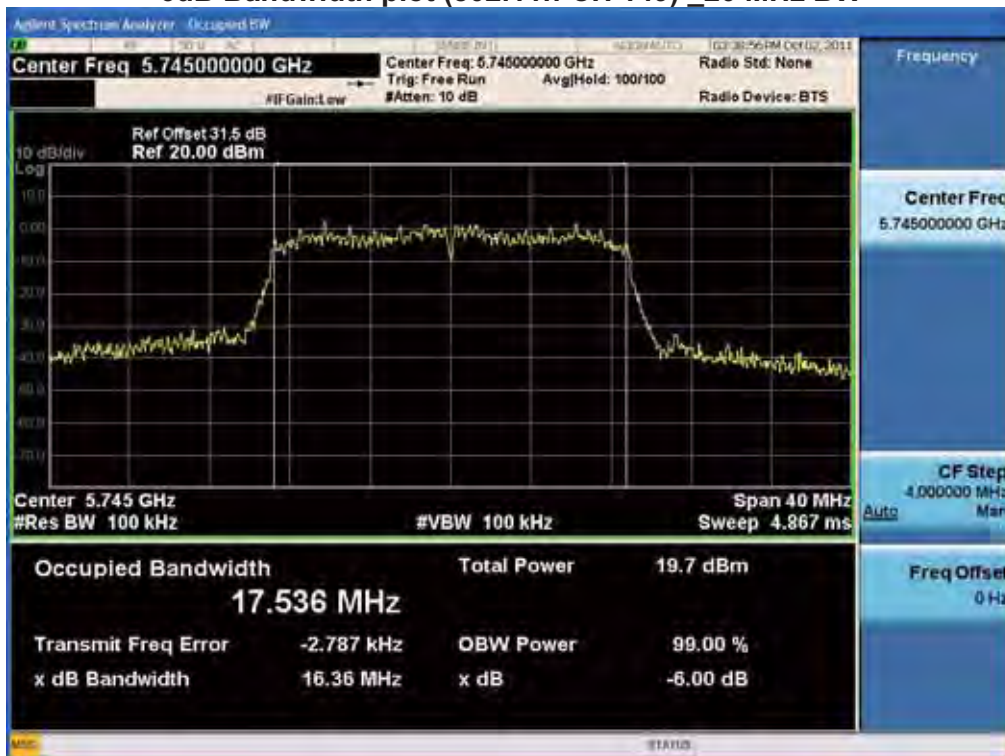
6dB Bandwidth plot (802.11a-CH 157)



6dB Bandwidth plot (802.11a-CH 165)

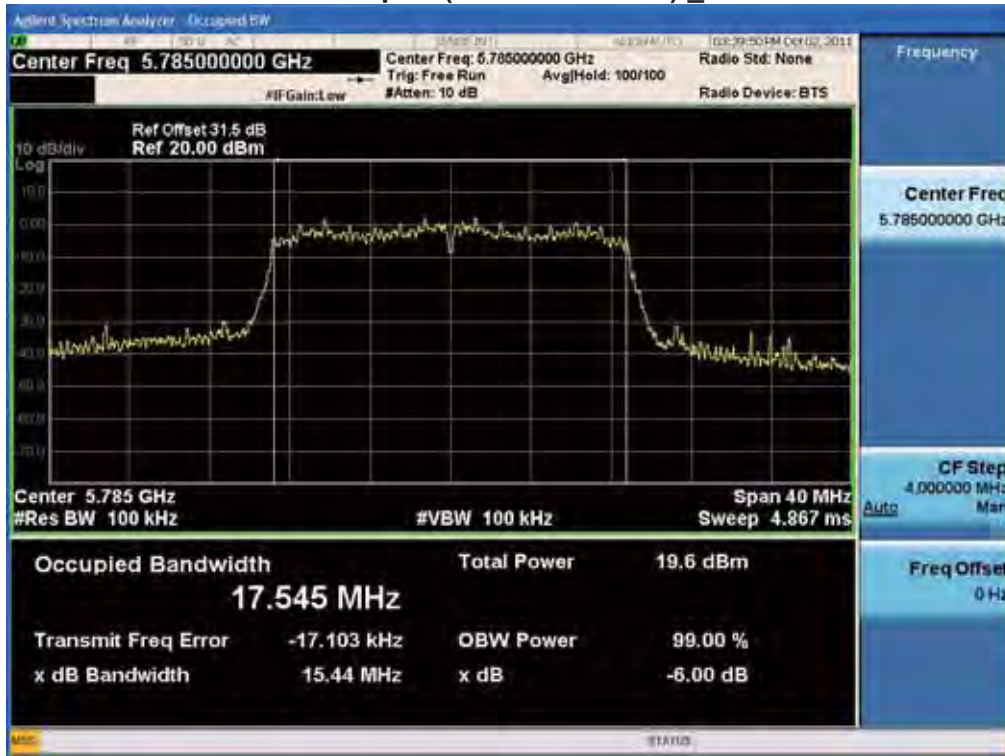


6dB Bandwidth plot (802.11n-CH 149) _20 MHz BW

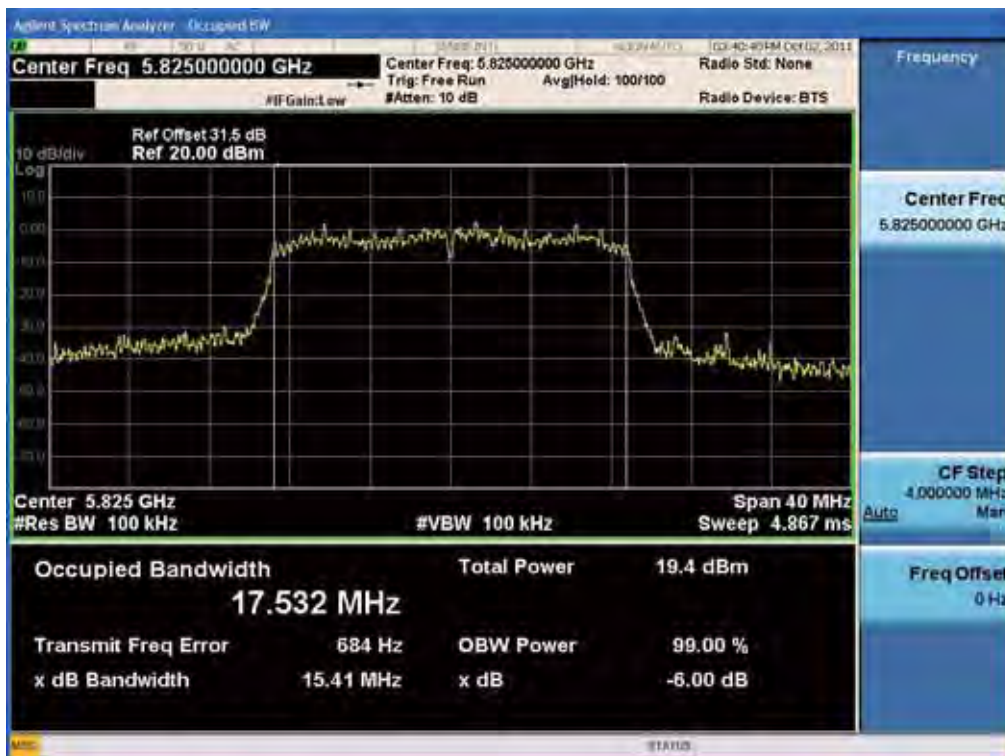


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|-----------------------------------|------------------------------------|------------------------|------------------------|--|
| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: Wi-Fi Module | FCC ID: BEJTWFB003D | IC: 2703H-TWFB003D |

6dB Bandwidth plot (802.11n-CH 157) _20 MHz BW

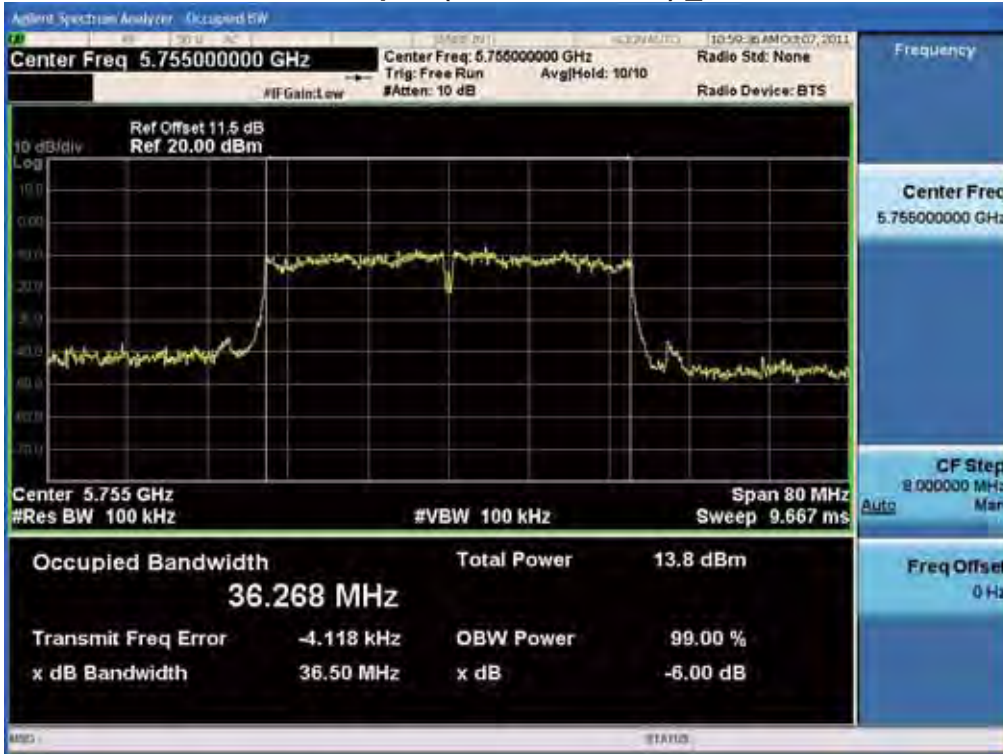


6dB Bandwidth plot (802.11n-CH 165) _20 MHz BW

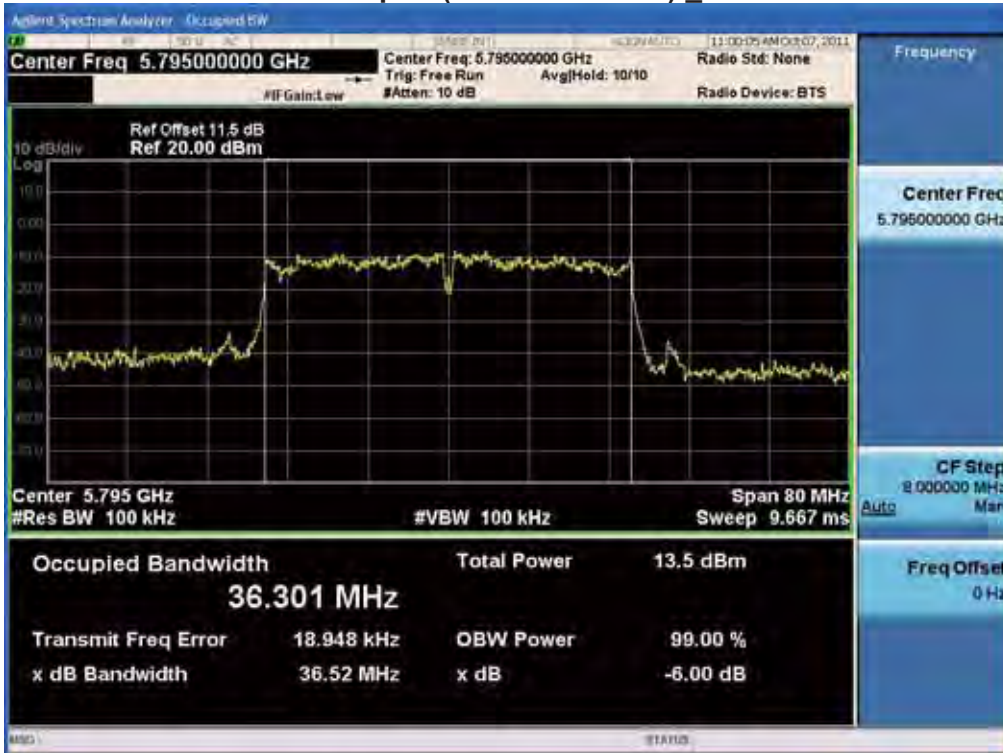


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: Wi-Fi Module | FCC ID: BEJTWFB003D | IC: 2703H-TWFB003D |

6dB Bandwidth plot (802.11n-CH 151) _40 MHz BW



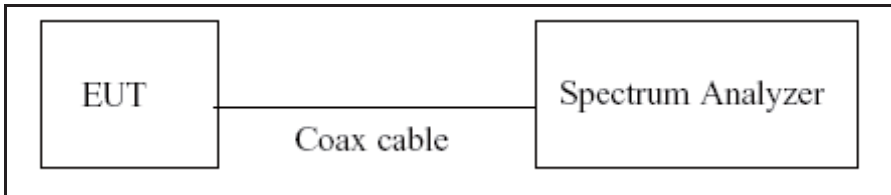
6dB Bandwidth plot (802.11n-CH 159) _40 MHz BW



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7.2 OBW (99 % BW) BANDWIDTH MEASUREMENT

■ TEST CONFIGURATION



■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to

RBW: RSS GEN required the RBW used for measuring 99 % must be at least 1 % of the SPAN.

VBW: 3 times of RBW

SPAN: 40 MHz

■ TEST RESULTS_Ant. 0

Conducted OBW Measurements for 802.11b

| 802.11b Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 2412 | 1 | 10.66 |
| 2437 | 6 | 10.64 |
| 2462 | 11 | 10.69 |

Conducted OBW Measurements for 802.11g

| 802.11g Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 2412 | 1 | 16.53 |
| 2437 | 6 | 16.58 |
| 2462 | 11 | 16.52 |

Conducted OBW Measurements for 802.11n_20 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 2412 | 1 | 17.52 |
| 2437 | 6 | 17.55 |
| 2462 | 11 | 17.53 |

Conducted OBW Measurements for 802.11n_40 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 2422 | 3 | 36.46 |
| 2437 | 6 | 36.82 |
| 2452 | 9 | 36.32 |

Conducted OBW Measurements for 802.11a

| 802.11a Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 5745 | 149 | 16.56 |
| 5785 | 157 | 16.54 |
| 5825 | 165 | 16.46 |

Conducted OBW Measurements for 802.11n_20 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 5745 | 149 | 17.59 |
| 5785 | 157 | 17.62 |
| 5825 | 165 | 17.63 |



Conducted OBW Measurements for 802.11n_40 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 5755 | 151 | 36.41 |
| 5795 | 159 | 36.45 |

| | | | | |
|--|---|-------------------------------|--------------------------------|--|
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| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: Wi-Fi Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

■ TEST RESULTS_Ant. 1

Conducted OBW Measurements for 802.11b

| 802.11b Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 2412 | 1 | 10.69 |
| 2437 | 6 | 10.64 |
| 2462 | 11 | 10.66 |

Conducted OBW Measurements for 802.11g

| 802.11g Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 2412 | 1 | 16.40 |
| 2437 | 6 | 16.58 |
| 2462 | 11 | 16.49 |

Conducted OBW Measurements for 802.11n _20 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 2412 | 1 | 17.50 |
| 2437 | 6 | 17.53 |
| 2462 | 11 | 17.47 |

Conducted OBW Measurements for 802.11n_40 MHz BW

| 802.11n Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 2422 | 3 | 36.48 |
| 2437 | 6 | 36.72 |
| 2452 | 9 | 36.34 |

Conducted OBW Measurements for 802.11a

| 802.11a Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 5745 | 149 | 16.58 |
| 5785 | 157 | 16.61 |
| 5825 | 165 | 16.51 |

Conducted OBW Measurements for 802.11n_20 MHz BW

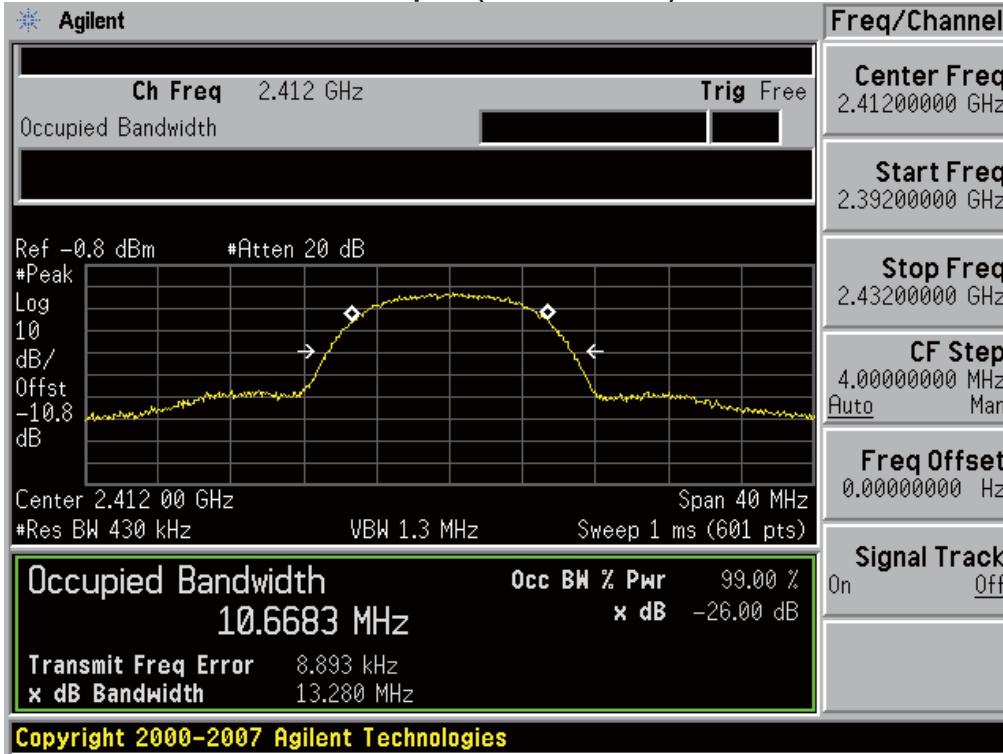
| 802.11n Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 5745 | 149 | 17.57 |
| 5785 | 157 | 17.58 |
| 5825 | 165 | 17.66 |

Conducted OBW Measurements for 802.11n_40 MHz BW

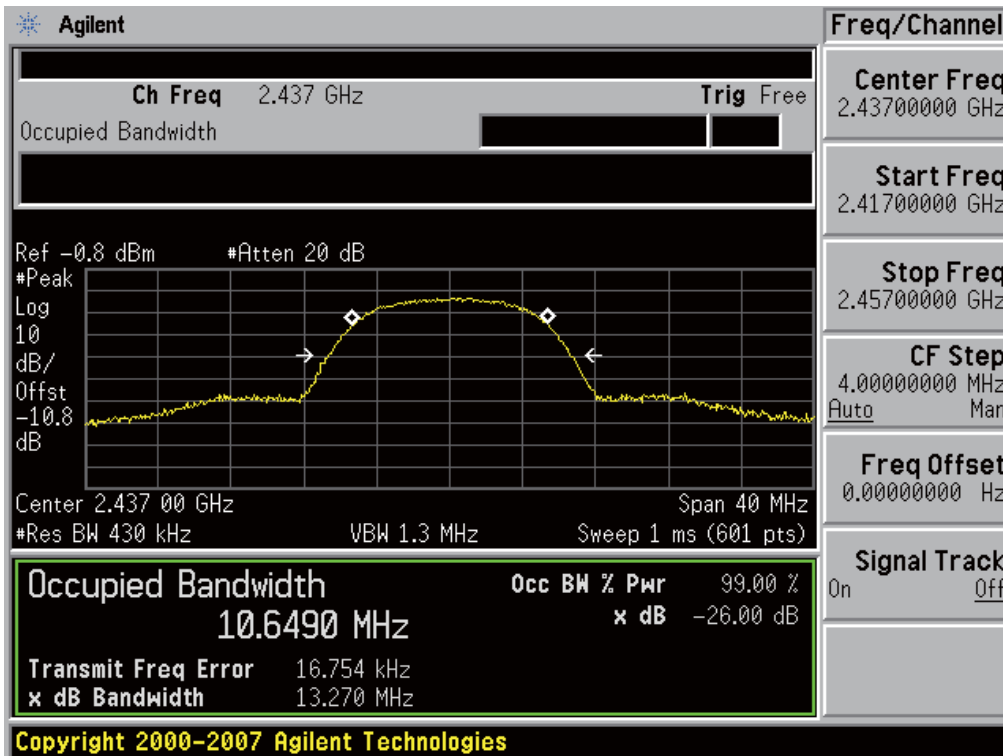
| 802.11n Mode | | Measured Bandwidth [MHz] |
|-----------------|-------------|-----------------------------|
| Frequency [MHz] | Channel No. | |
| 5755 | 151 | 36.34 |
| 5795 | 159 | 36.50 |

RESULT PLOTS_Ant.0

OBW plot (802.11b-CH 1)

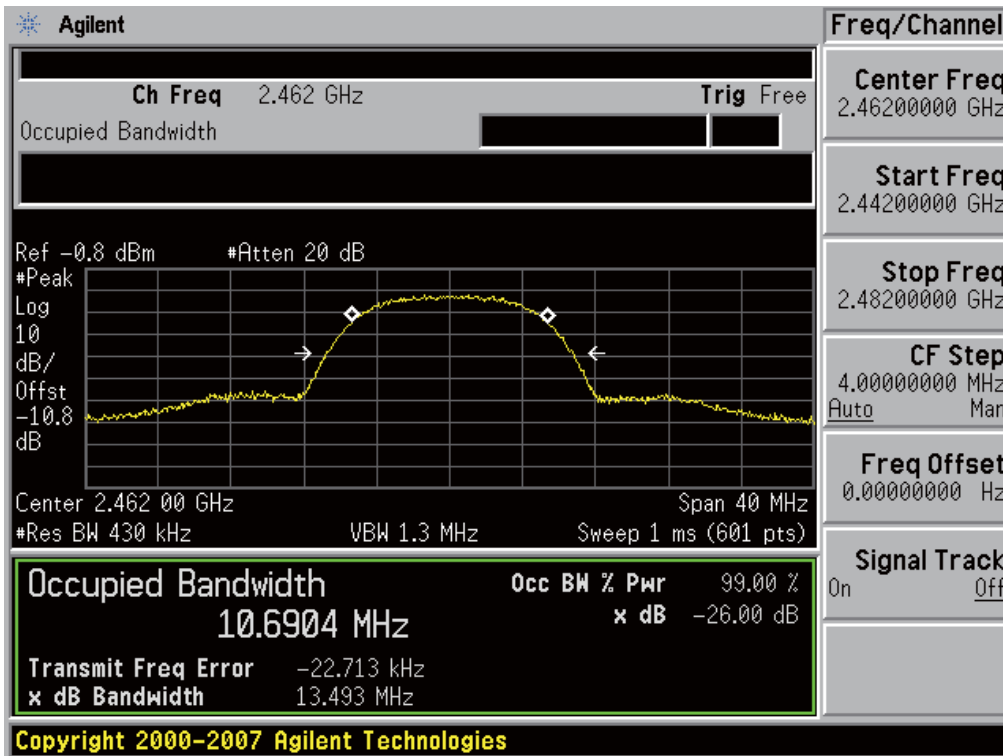


OBW plot (802.11b-CH 6)

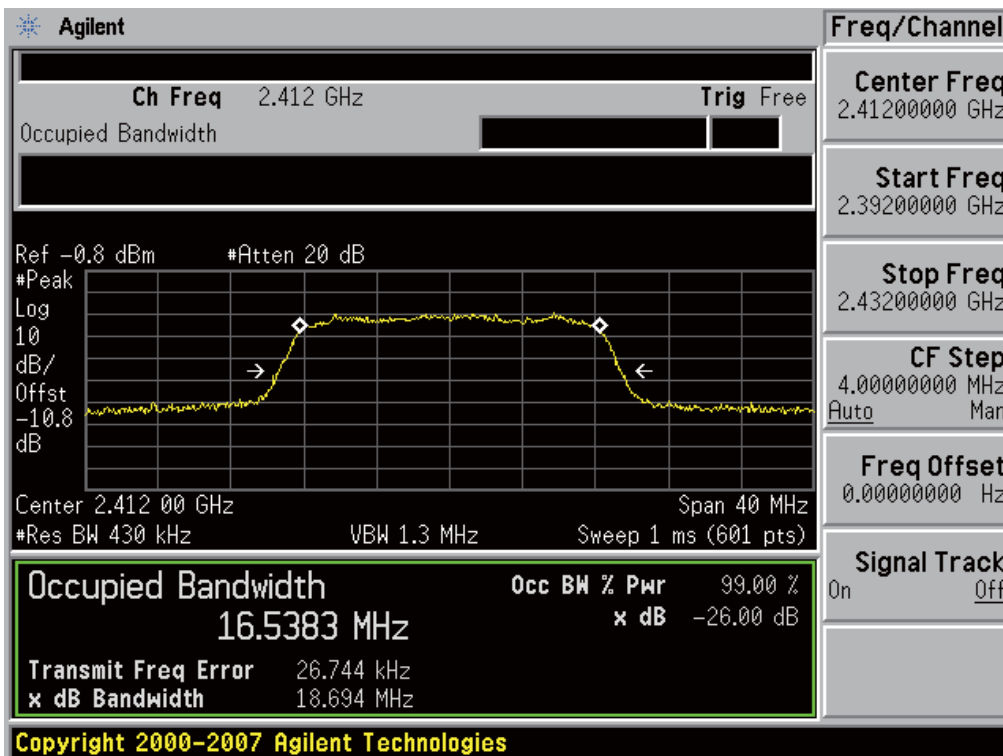


| FCC PT.15.247 TEST REPORT | | FCC & IC CERTIFICATION REPORT | | www.hct.co.kr | |
|-----------------------------------|------------------------------------|-------------------------------|--|--|------------------------|
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

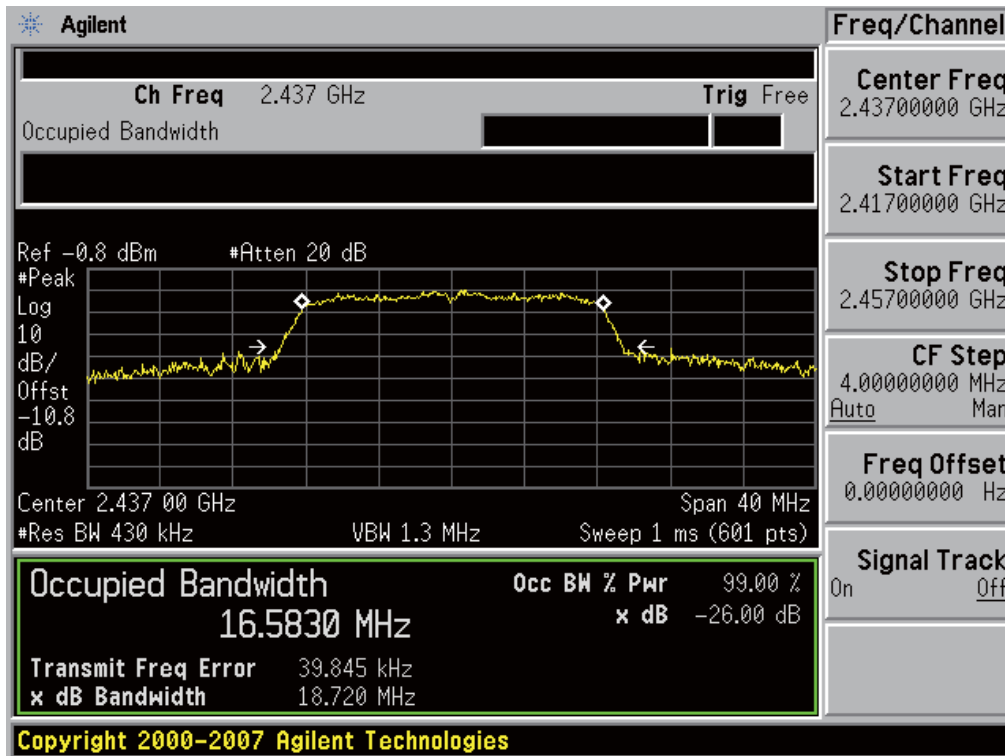
OBW plot (802.11b-CH 11)



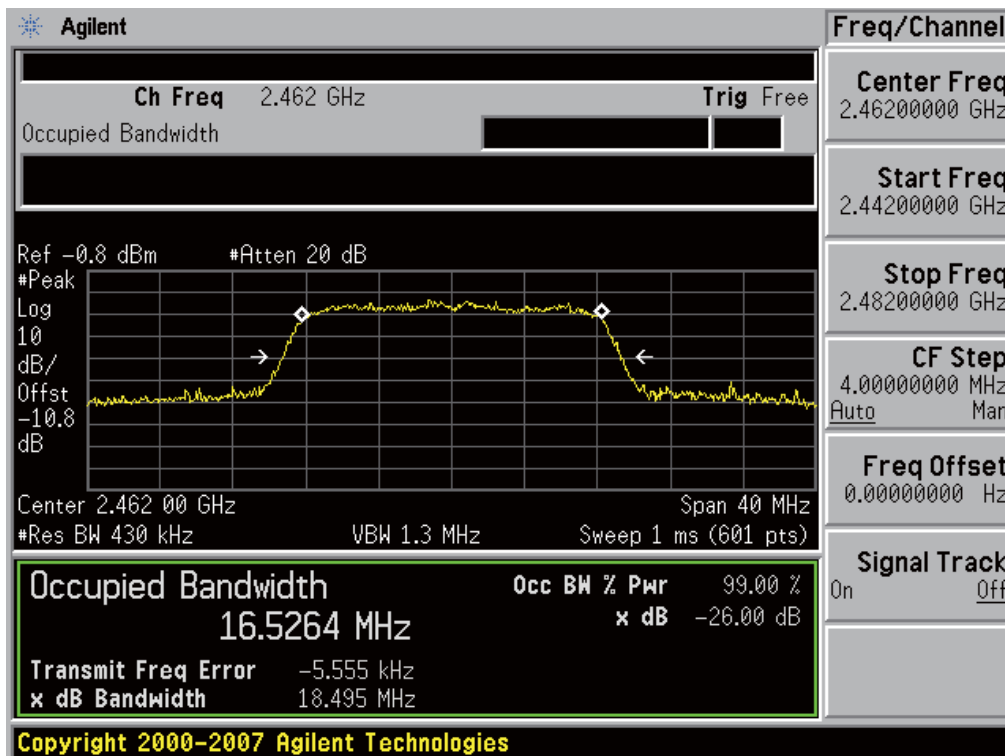
OBW plot (802.11g-CH 1)



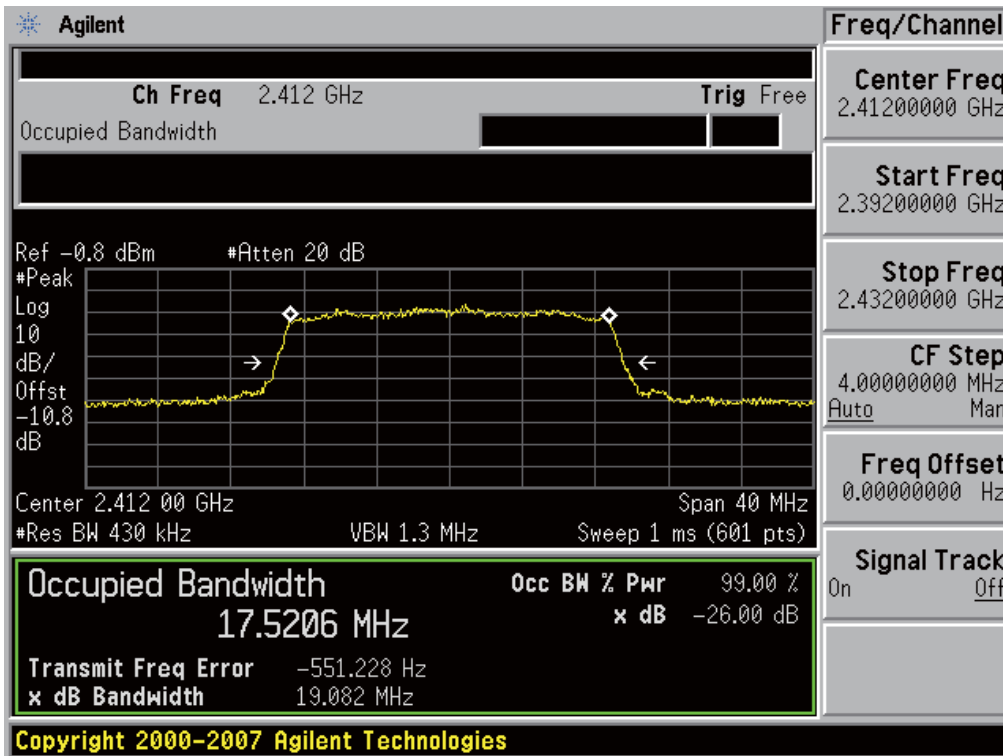
OBW plot (802.11g-CH 6)



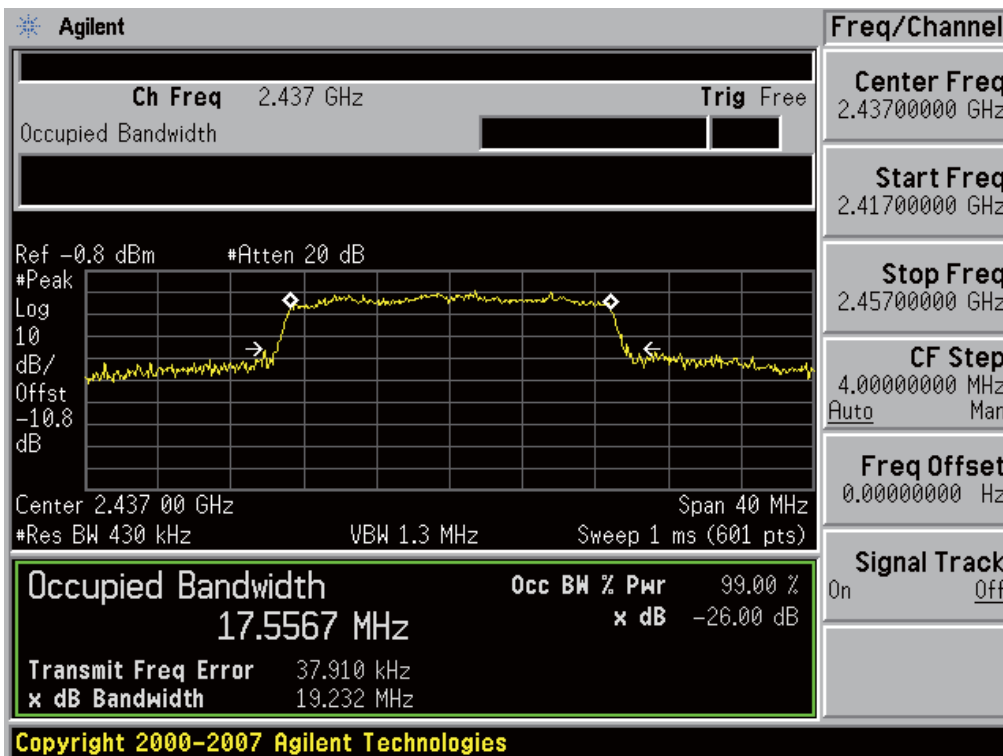
OBW plot (802.11g-CH 11)



OBW plot (802.11n-CH 1)_20 MHz BW

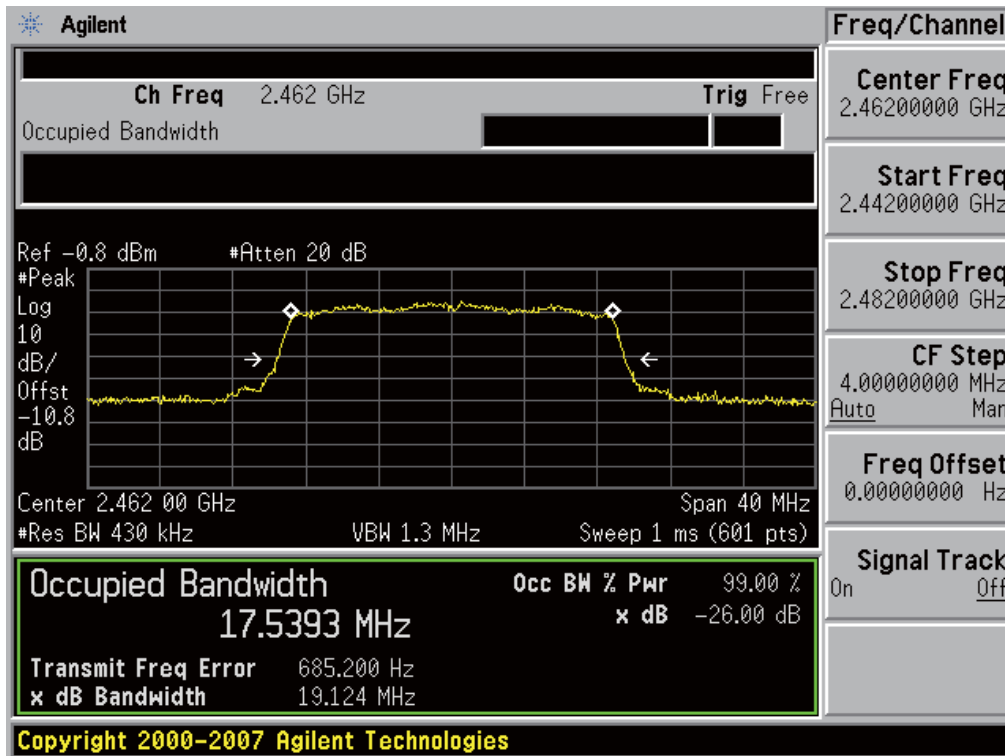


OBW plot (802.11n-CH 6)_20 MHz BW

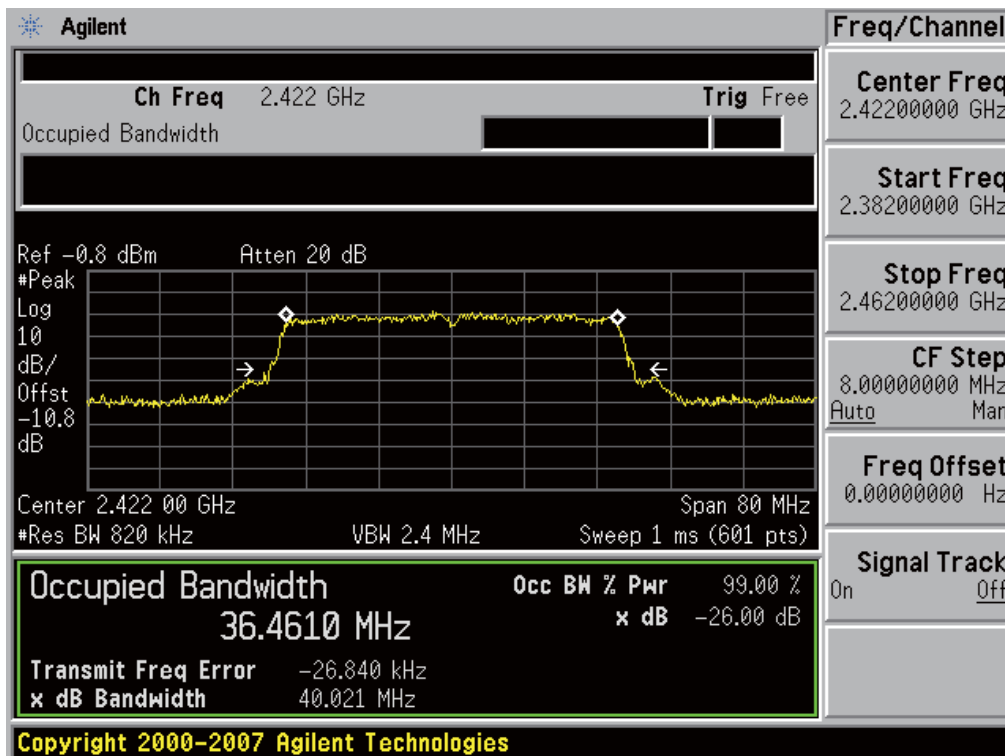


| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
|-----------------------------------|------------------------------------|------------------------|-------------------------|--|
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

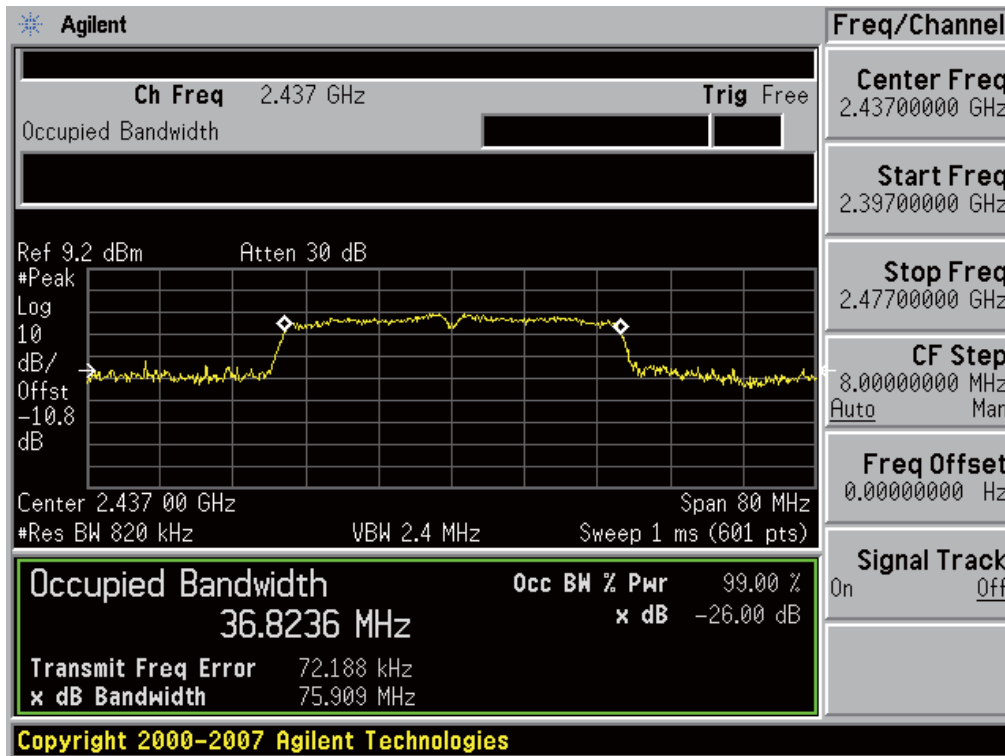
OBW plot (802.11n-CH 11) _20 MHz BW



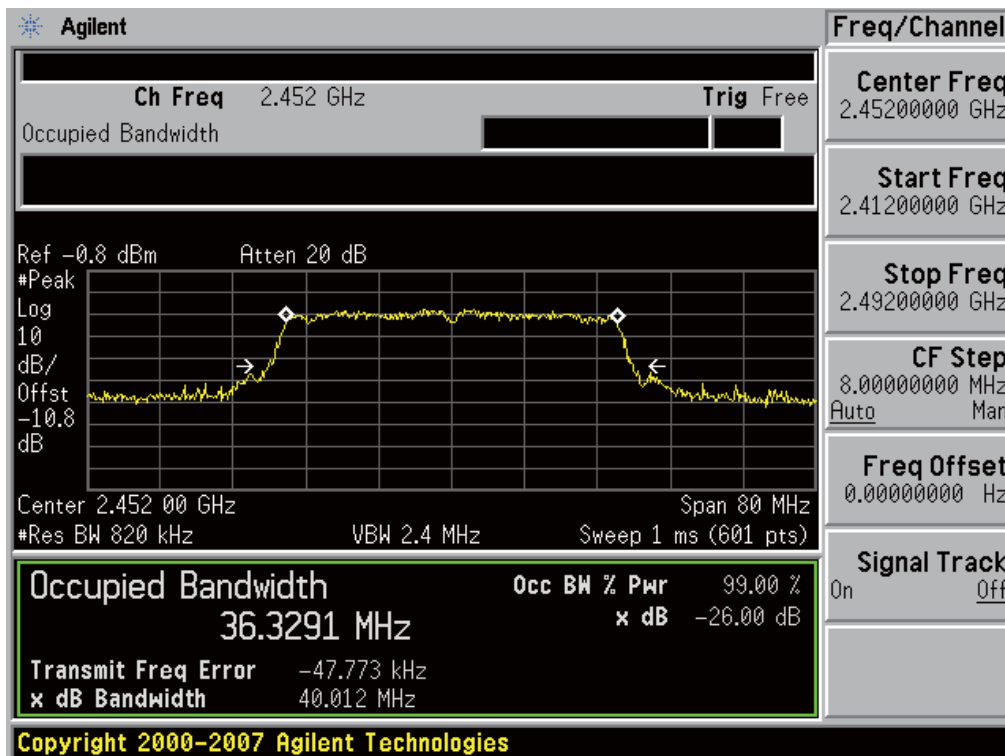
OBW plot (802.11n-CH 3) _40 MHz BW



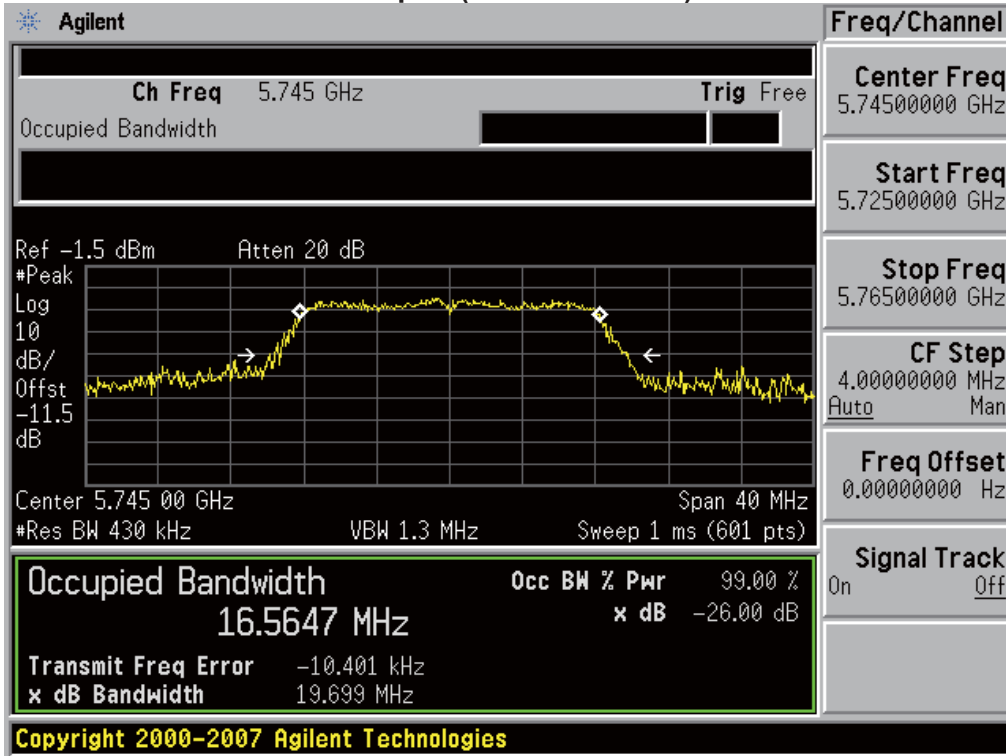
OBW plot (802.11n-CH 6) _40 MHz BW



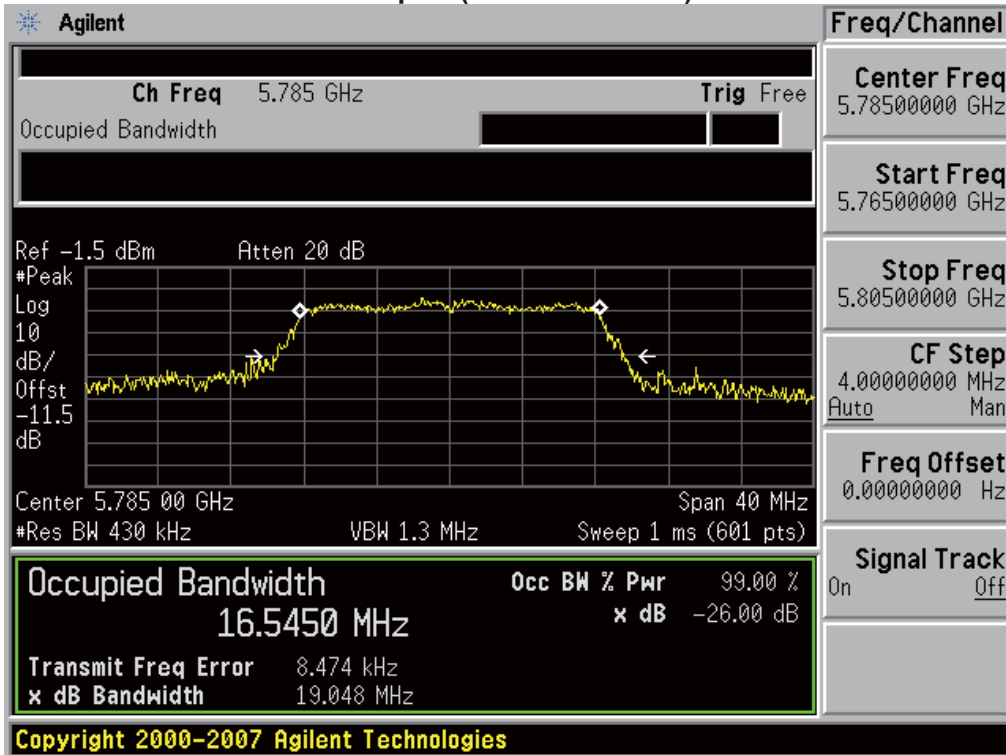
OBW plot (802.11n-CH 9) _40 MHz BW



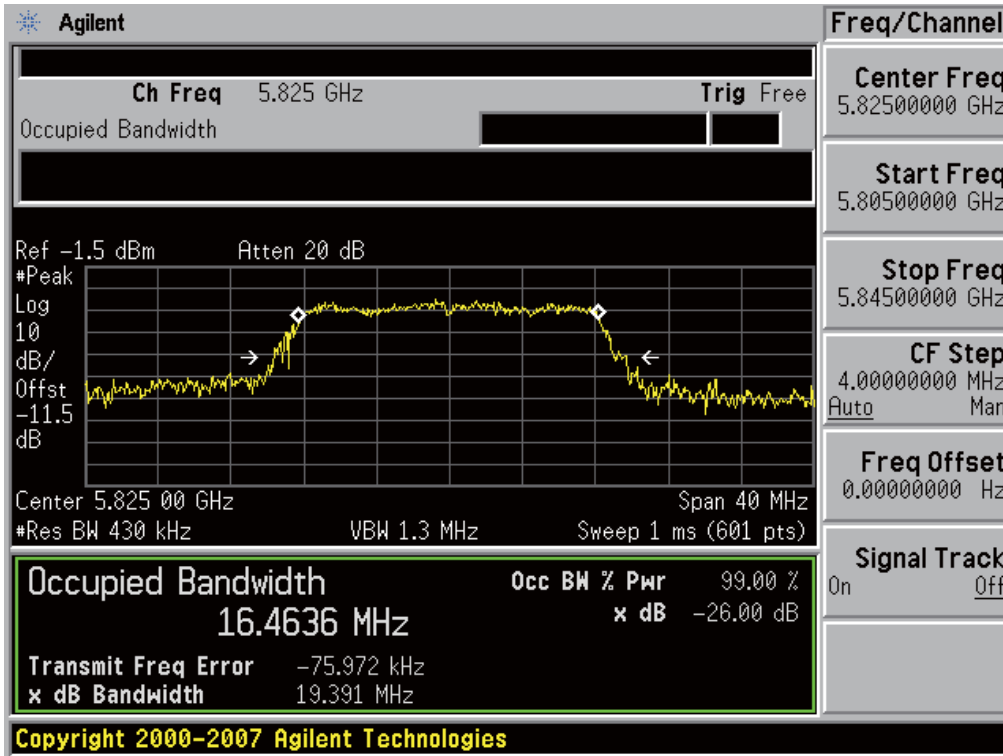
OBW plot (802.11a-CH 149)



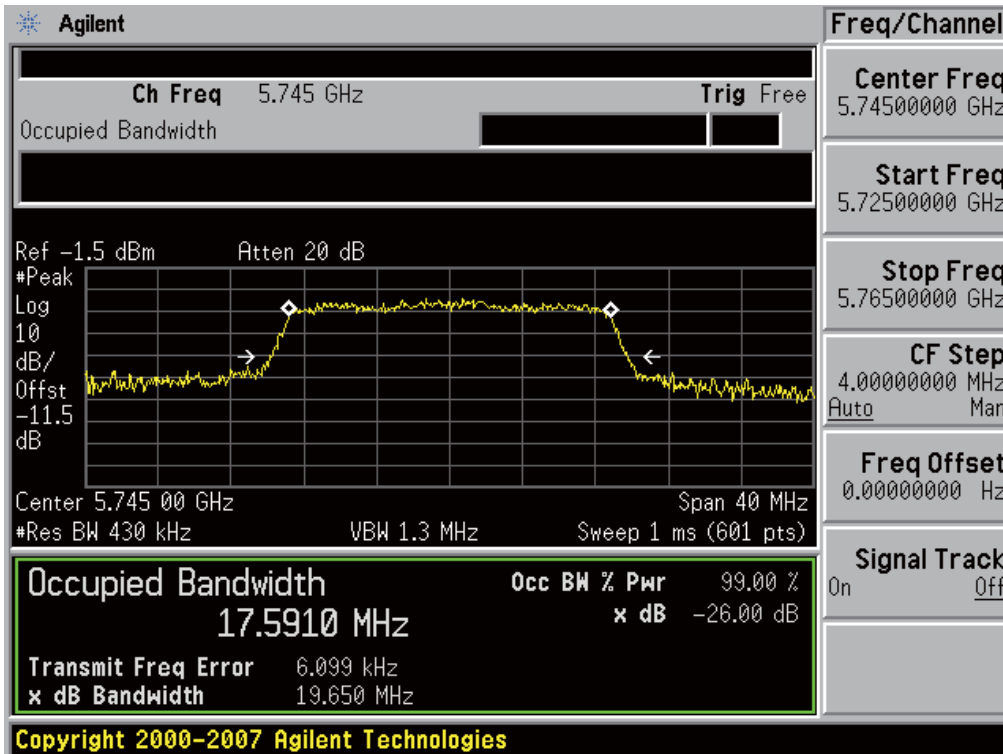
OBW plot (802.11a-CH 157)



OBW plot (802.11a-CH 165)

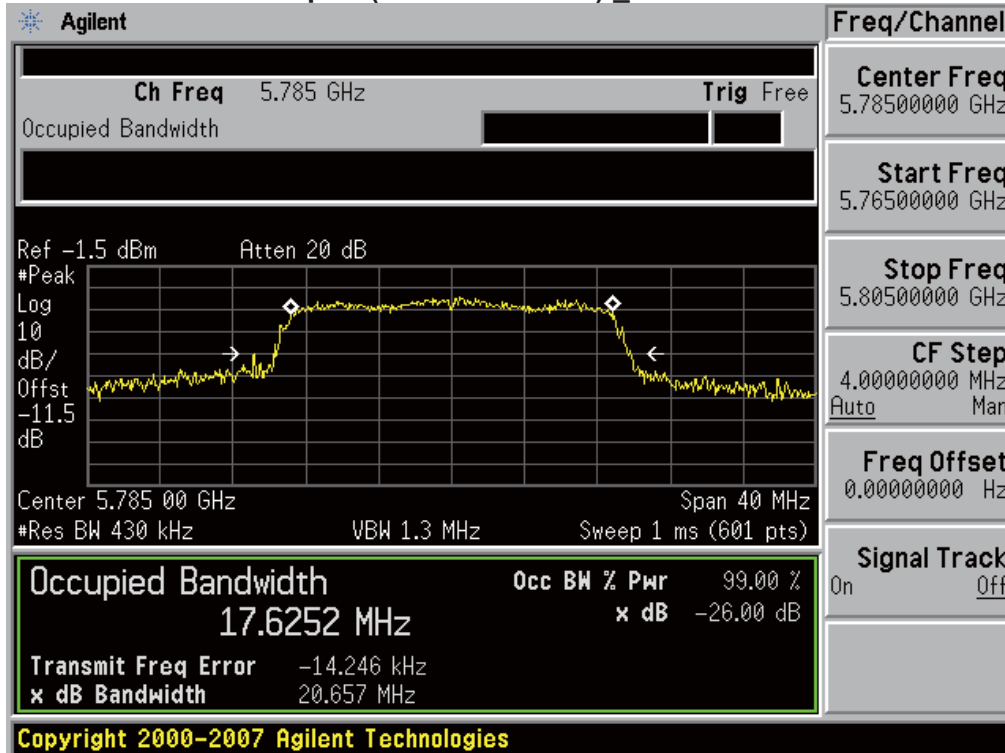


OBW plot (802.11n-CH 149) _20 MHz BW

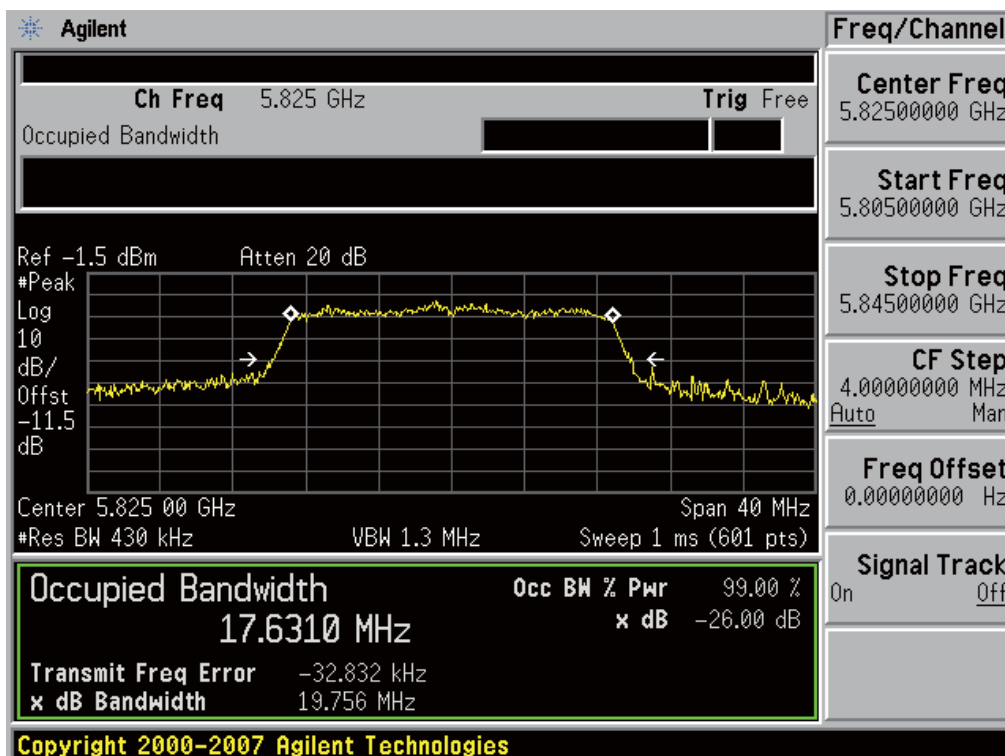


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|-----------------------------------|------------------------------------|------------------------|-------------------------|--|
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

OBW plot (802.11n-CH 157) _20 MHz BW

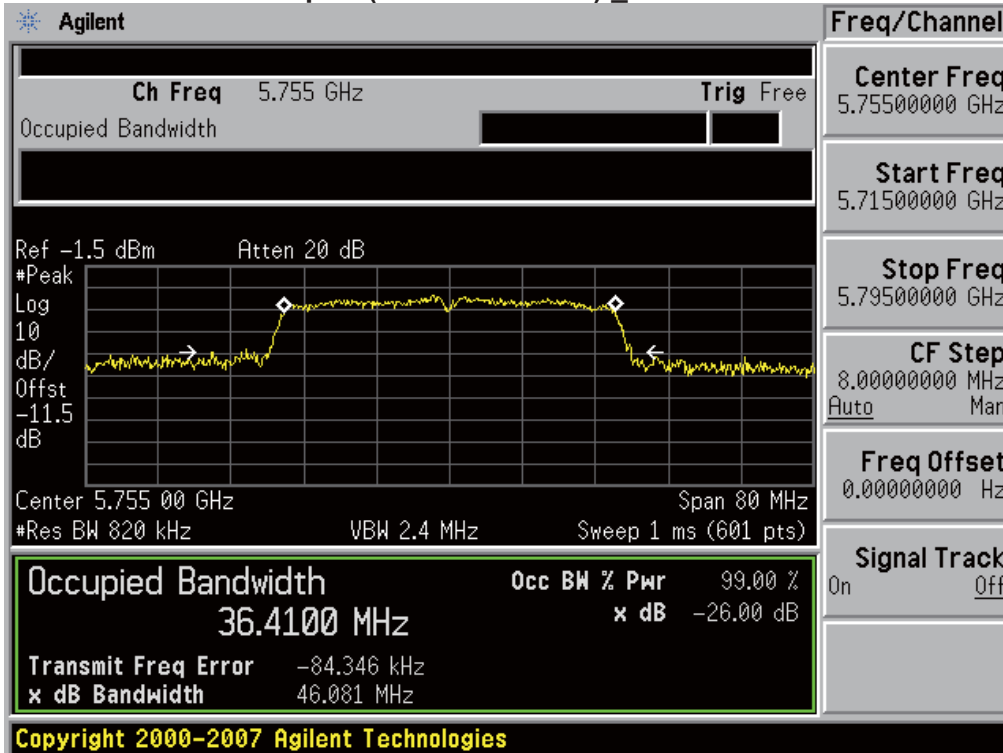


OBW plot (802.11n-CH 165) _20 MHz BW

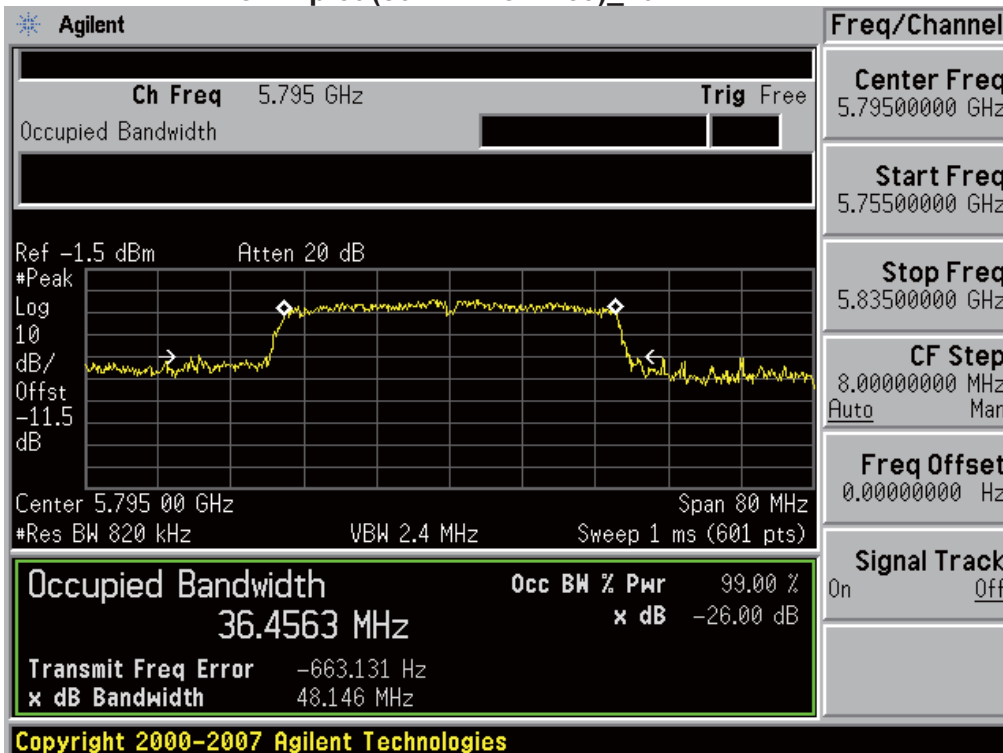


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|-----------------------------------|------------------------------------|------------------------|-------------------------|--|
| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

OBW plot (802.11n-CH 151) _40 MHz BW

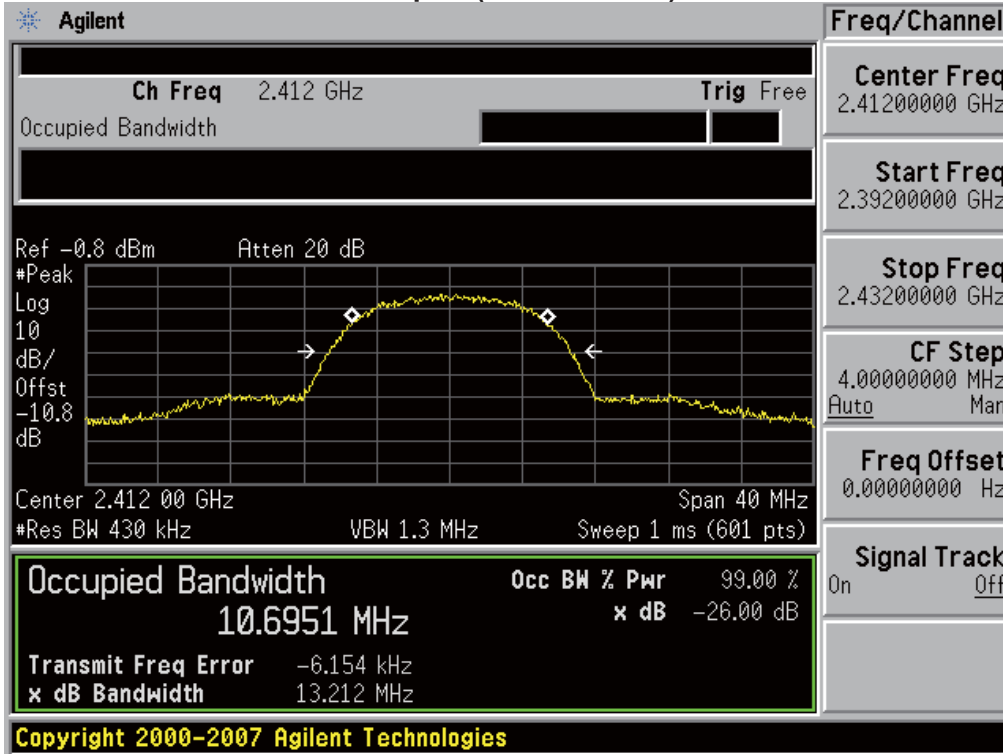


OBW plot (802.11n-CH 159) _40 MHz BW

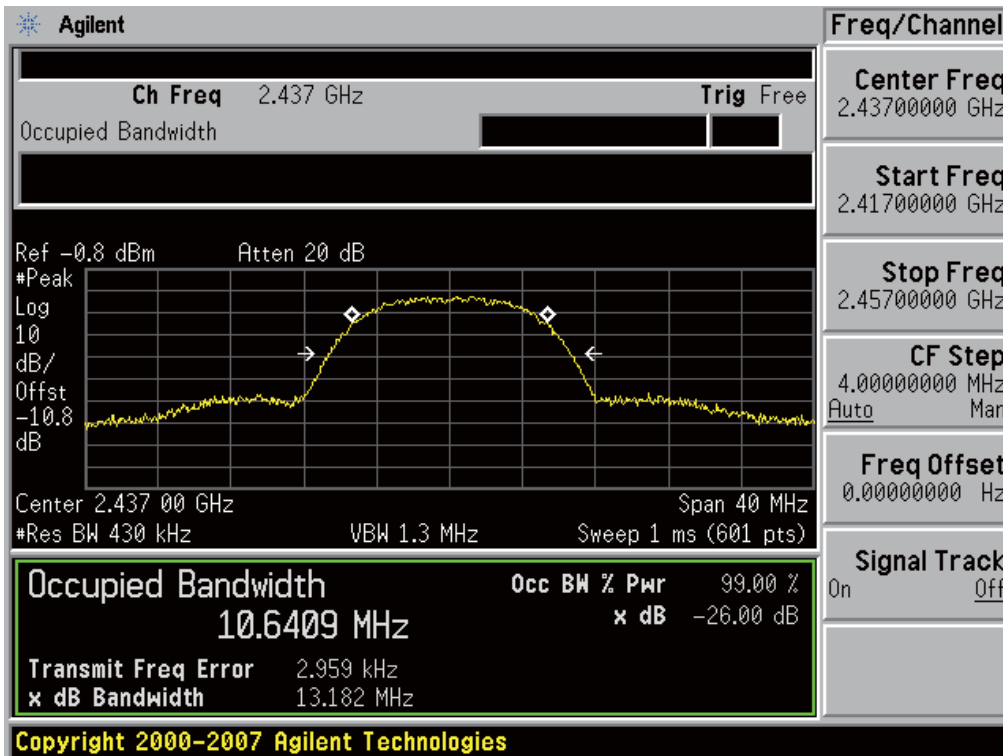


RESULT PLOTS_Ant.1

OBW plot (802.11b-CH 1)

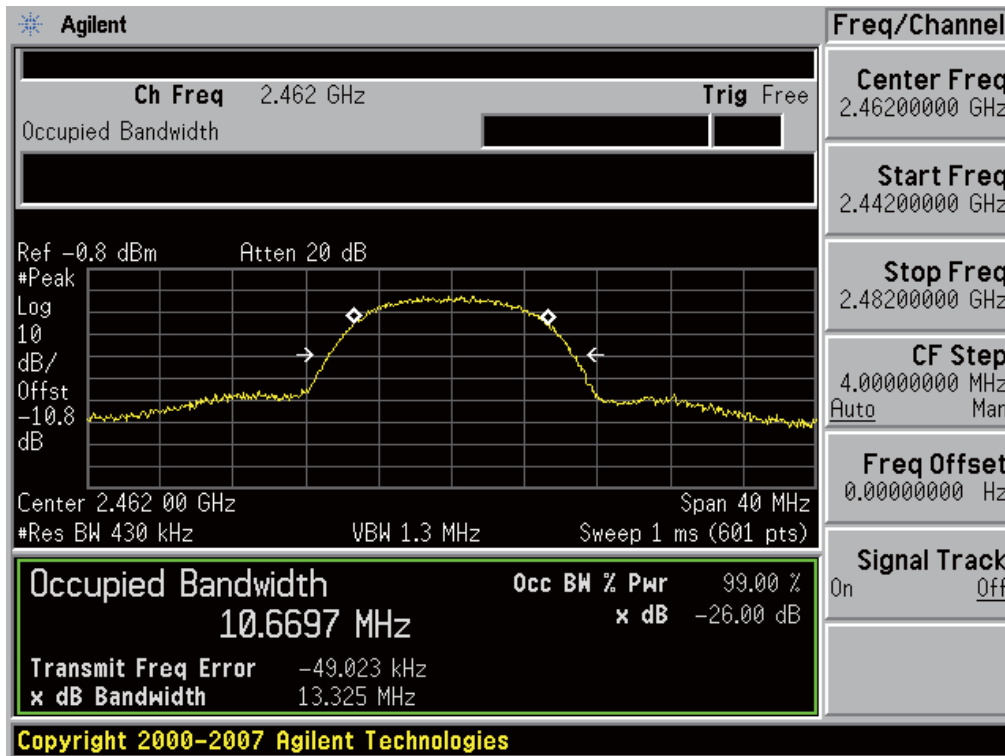


OBW plot (802.11b-CH 6)

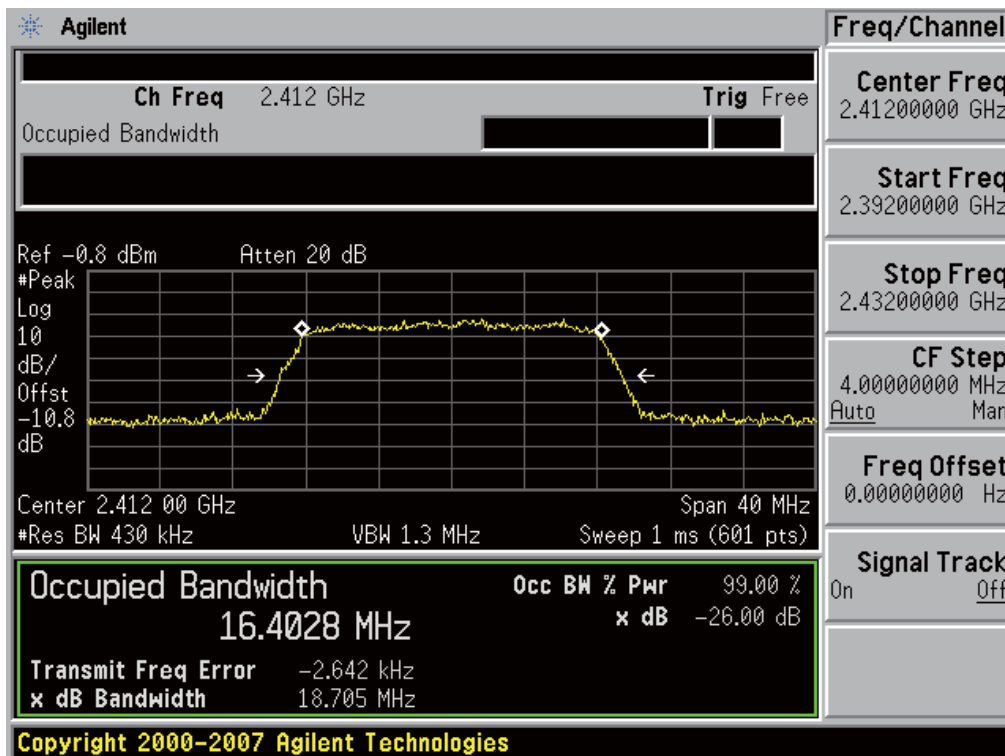


| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
|-----------------------------------|------------------------------------|------------------------|-------------------------|--|
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

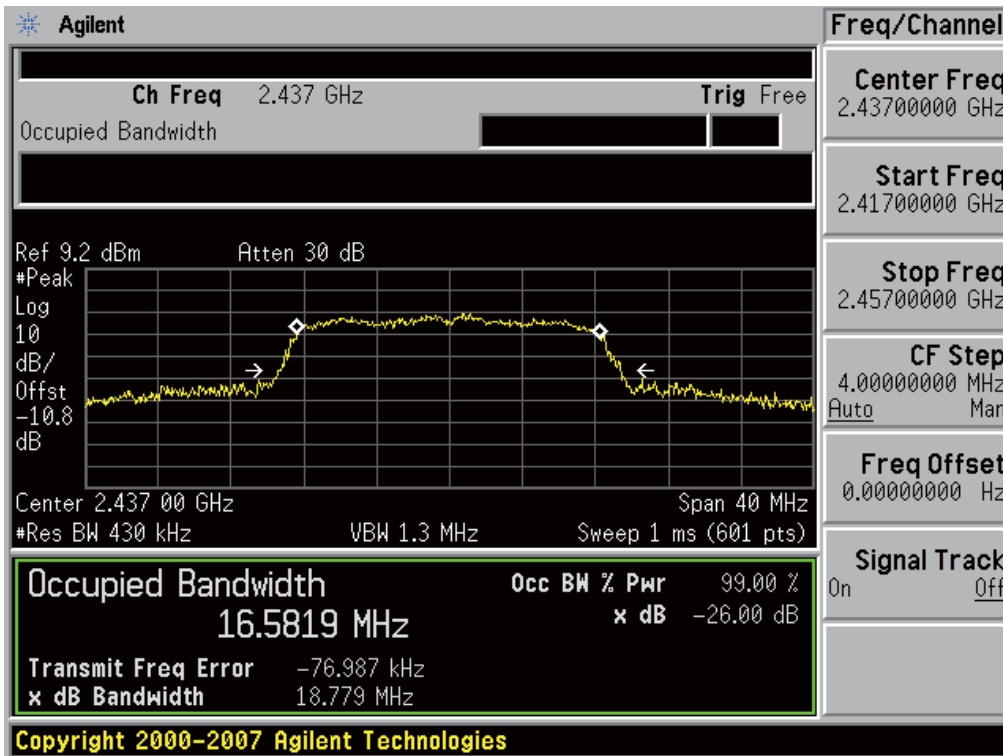
OBW plot (802.11b-CH 11)



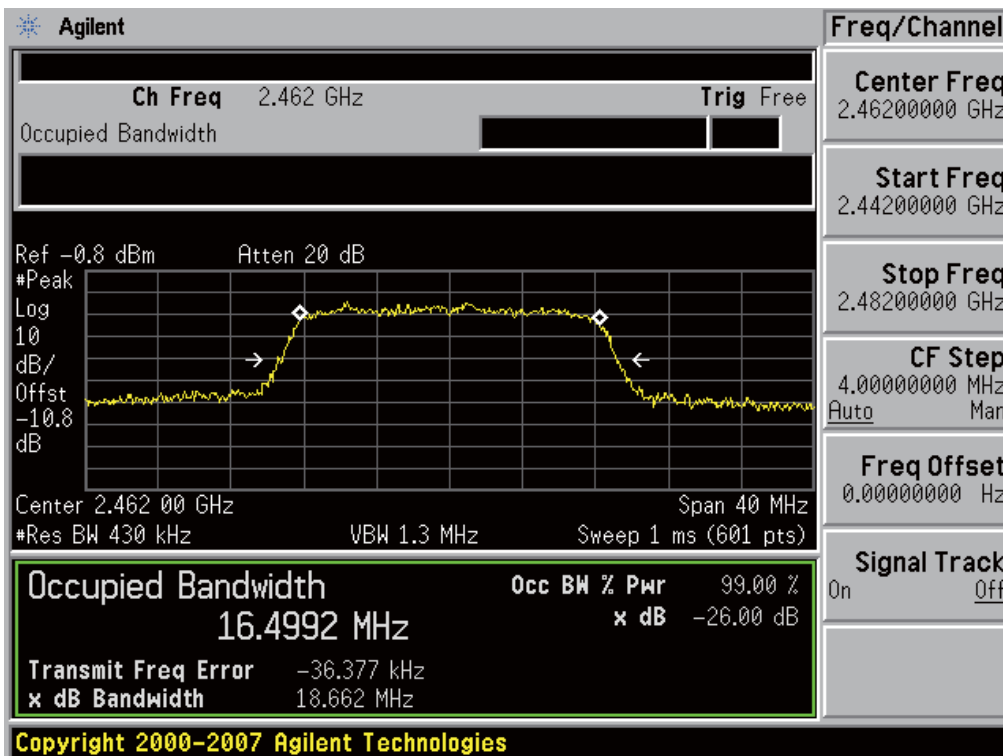
OBW plot (802.11g-CH 1)



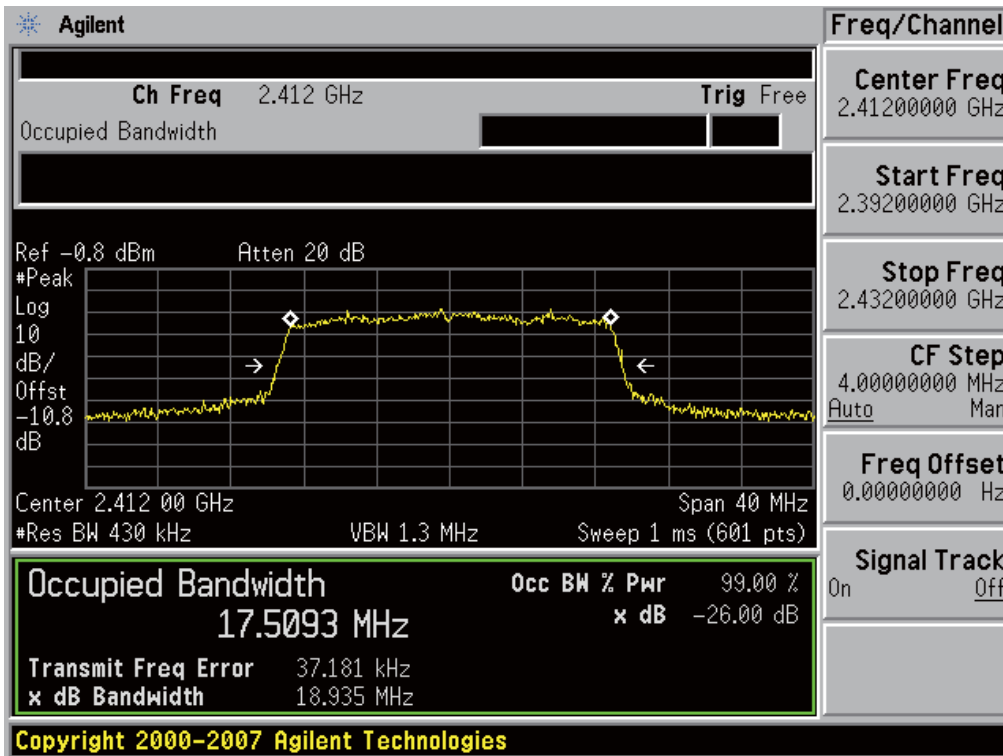
OBW plot (802.11g-CH 6)



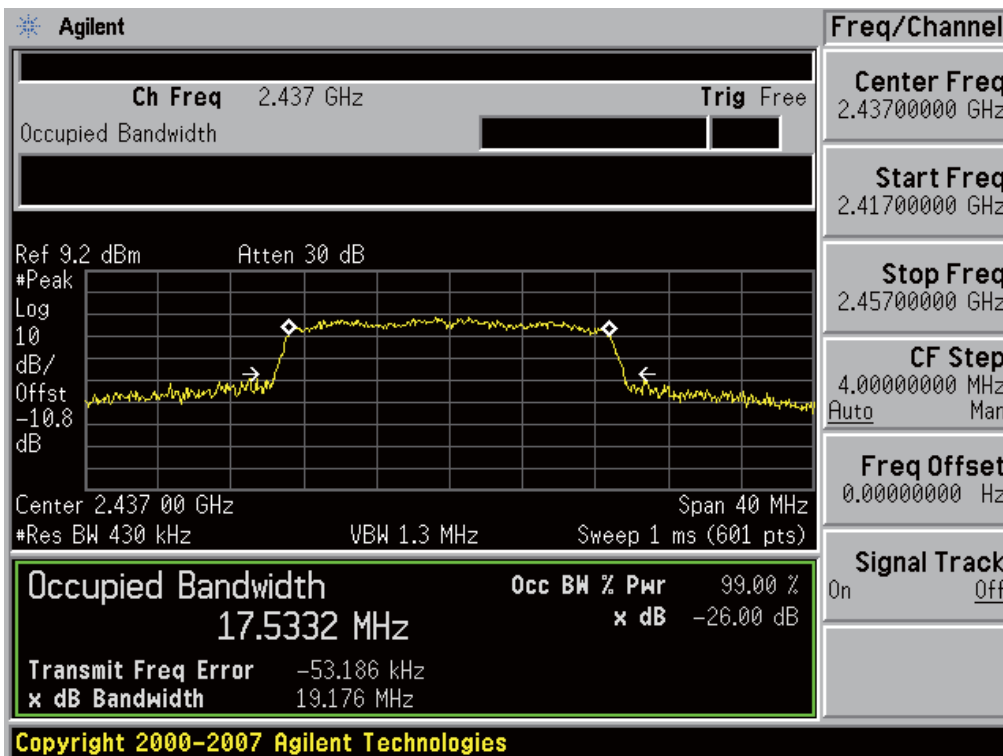
OBW plot (802.11g-CH 11)



OBW plot (802.11n-CH 1)_20 MHz BW

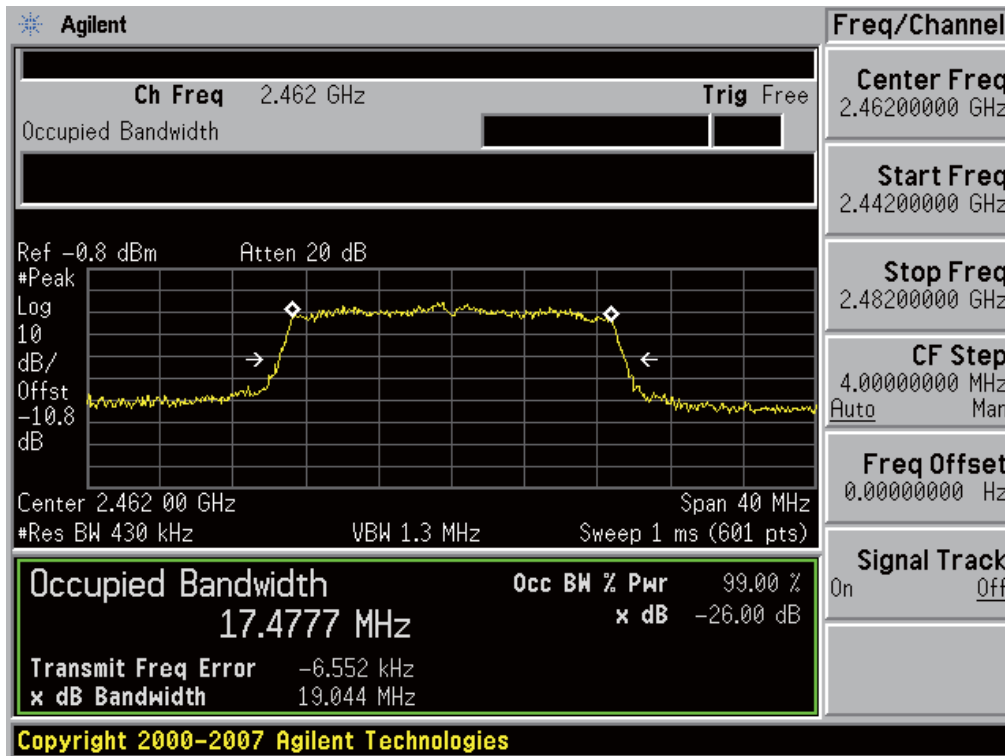


OBW plot (802.11n-CH 6)_20 MHz BW

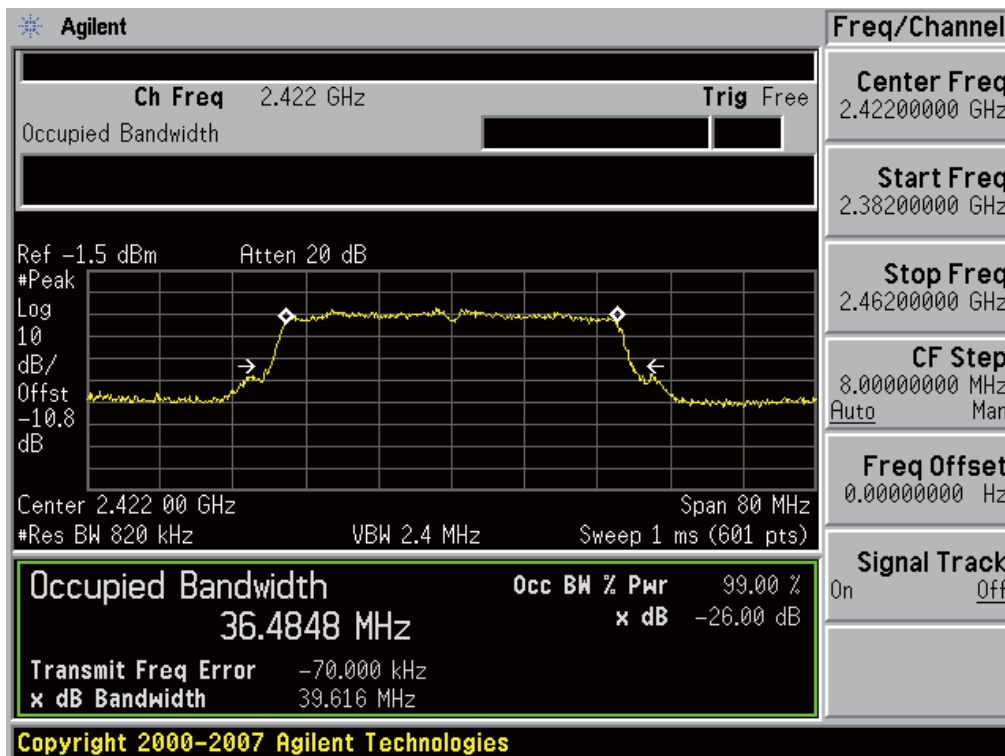


| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
|-----------------------------------|------------------------------------|------------------------|-------------------------|--|
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

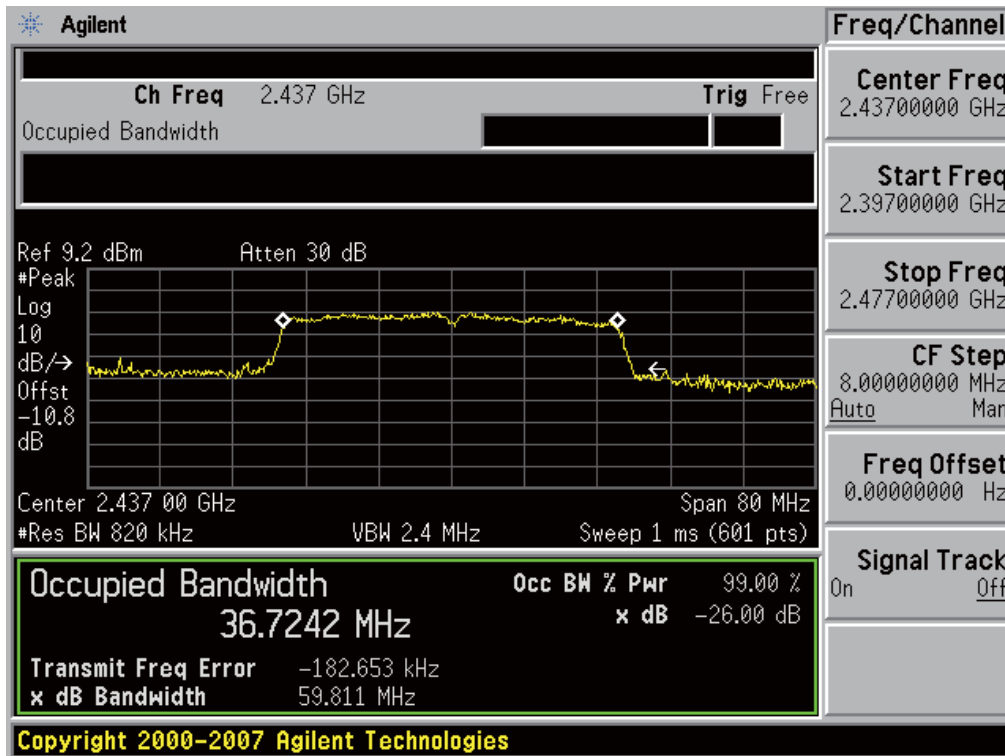
OBW plot (802.11n-CH 11)_20 MHz BW



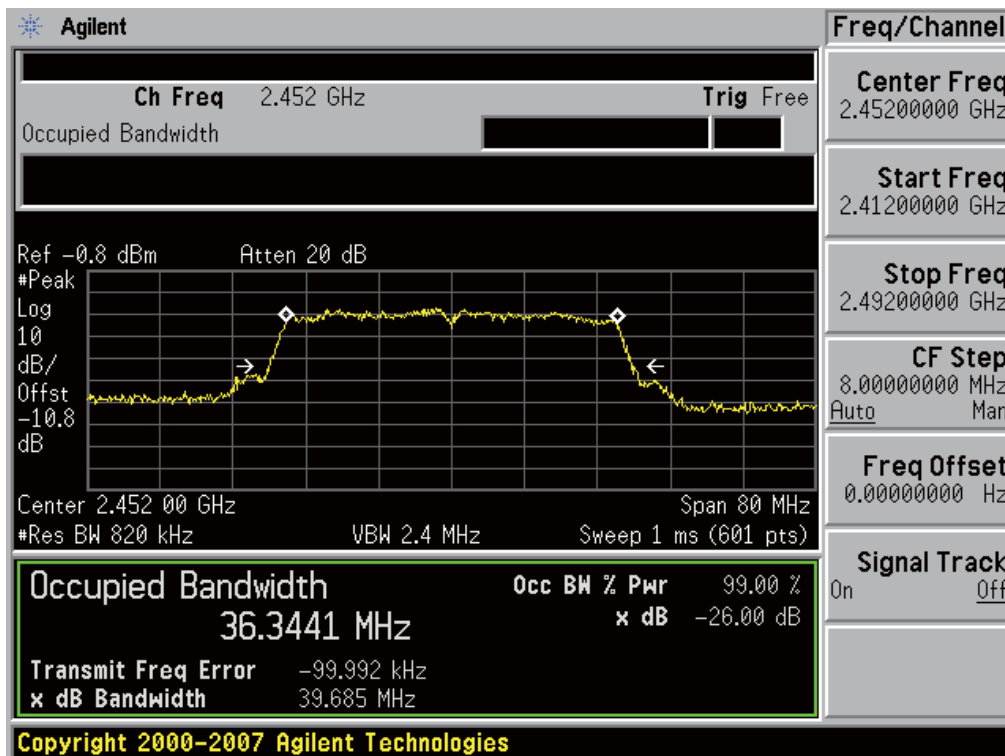
OBW plot (802.11n-CH 3)_40 MHz BW



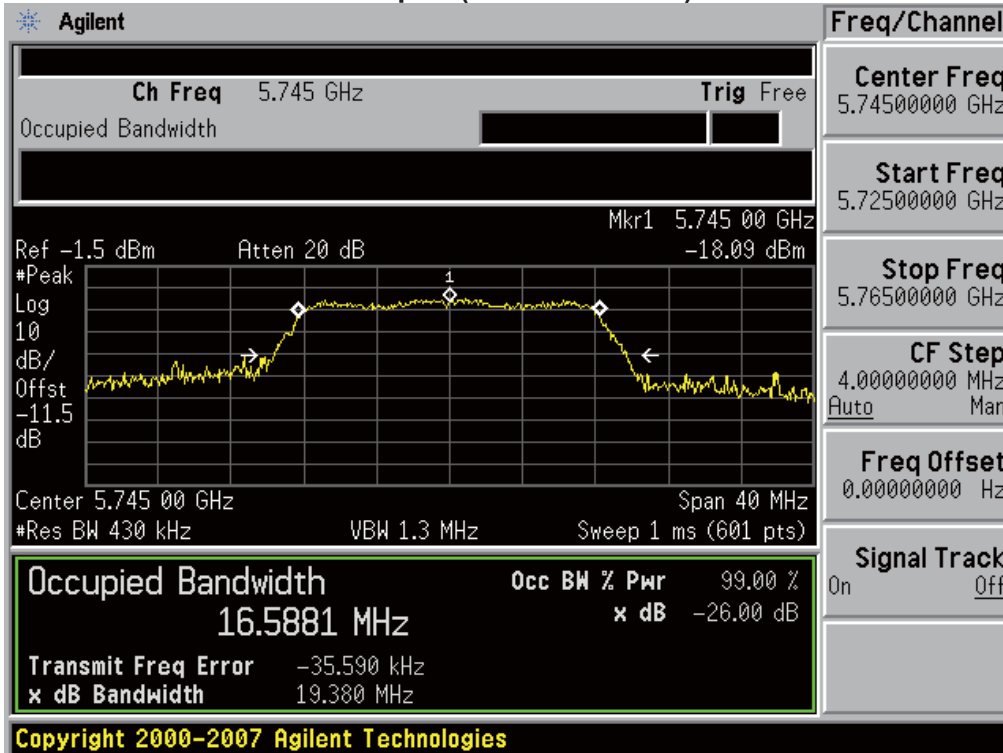
OBW plot (802.11n-CH 6) _40 MHz BW



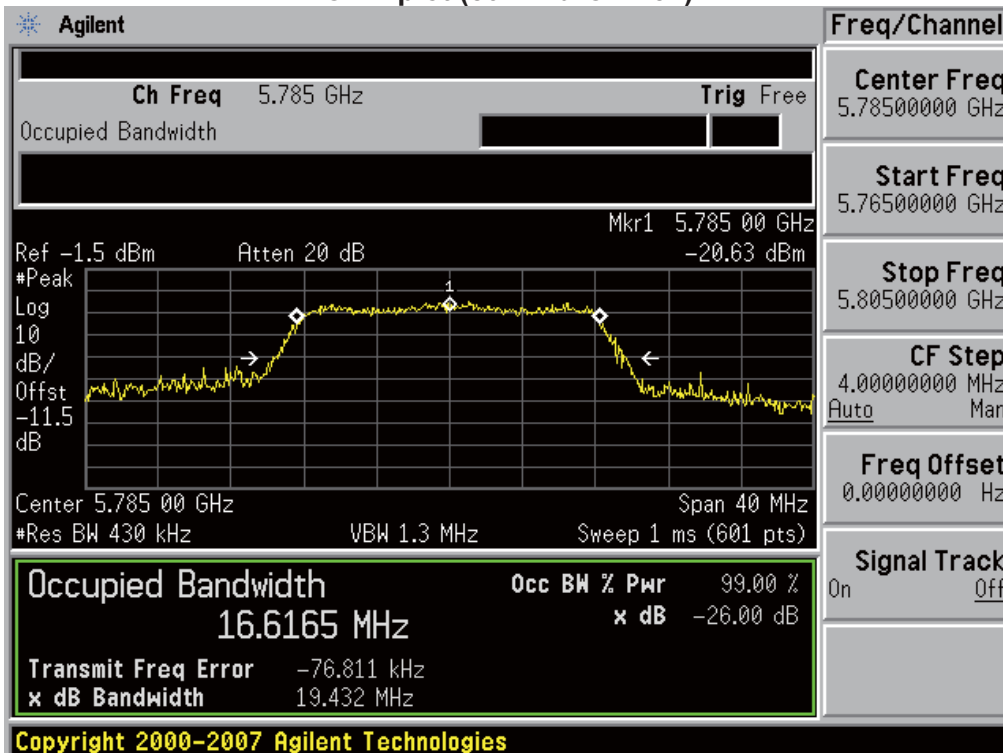
OBW plot (802.11n-CH 9) _40 MHz BW



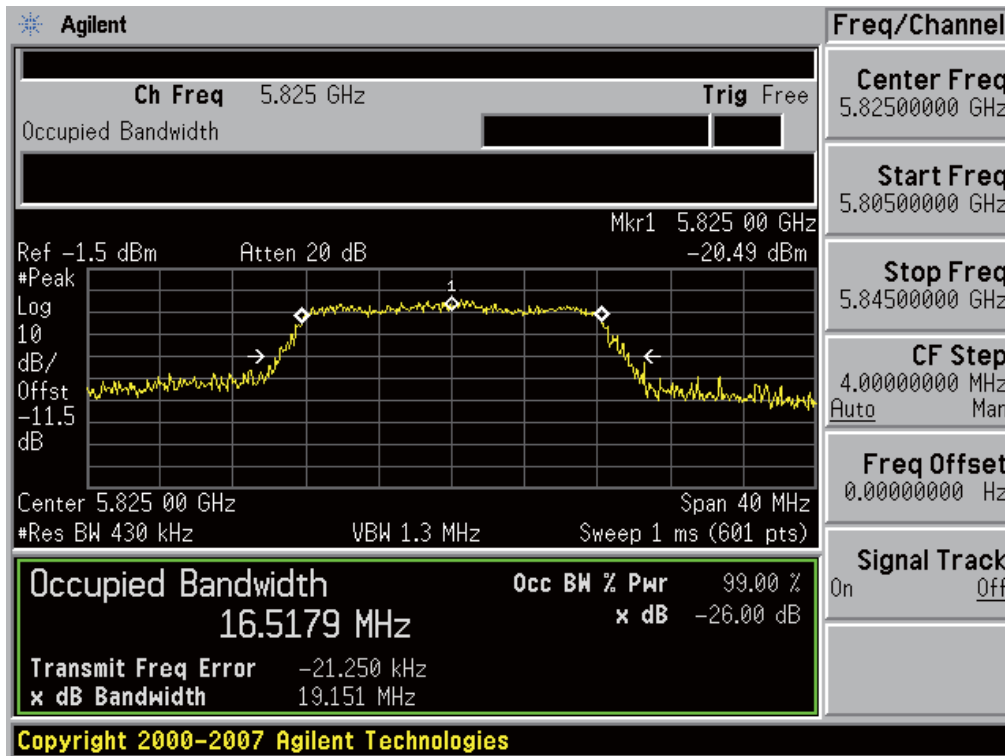
OBW plot (802.11a-CH 149)



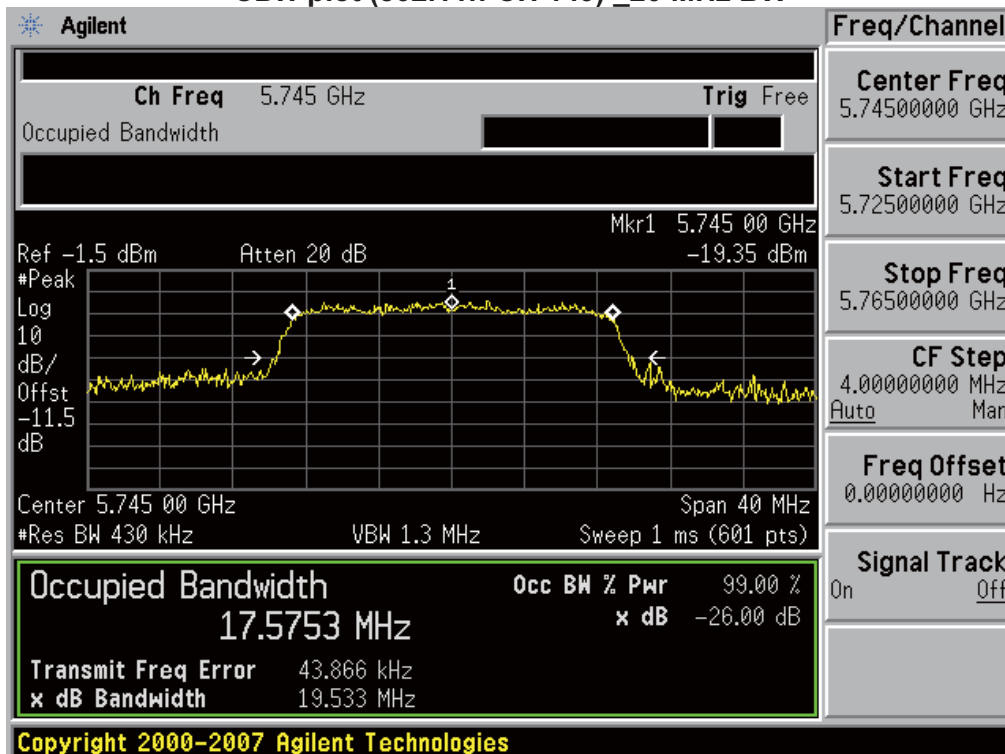
OBW plot (802.11a-CH 157)



OBW plot (802.11a-CH 165)

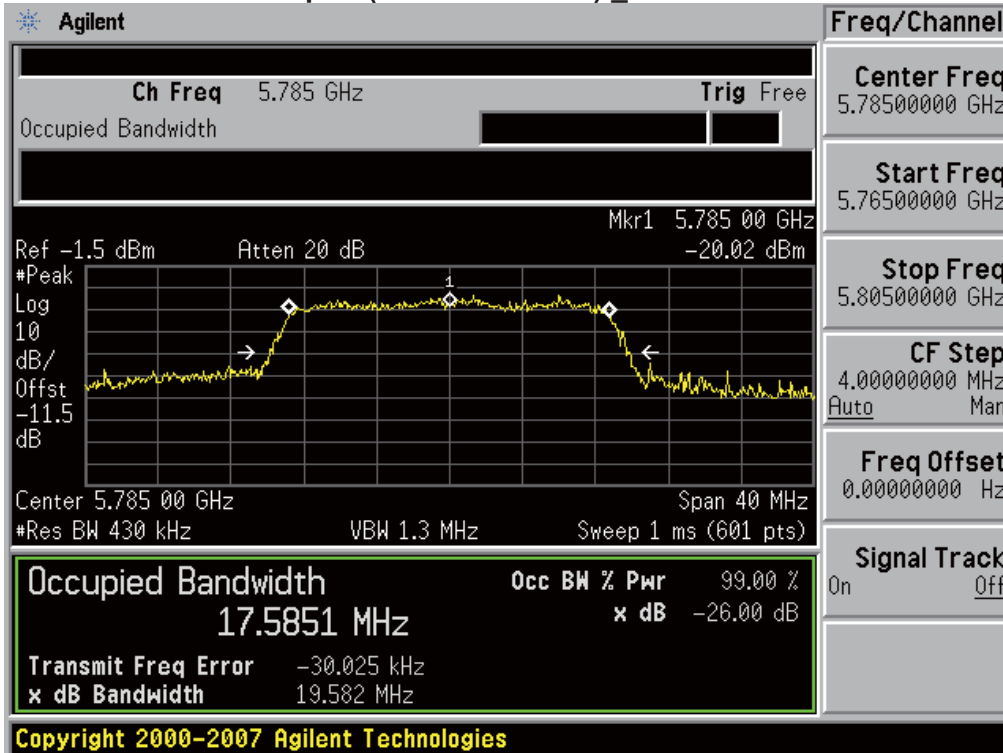


OBW plot (802.11n-CH 149) _20 MHz BW

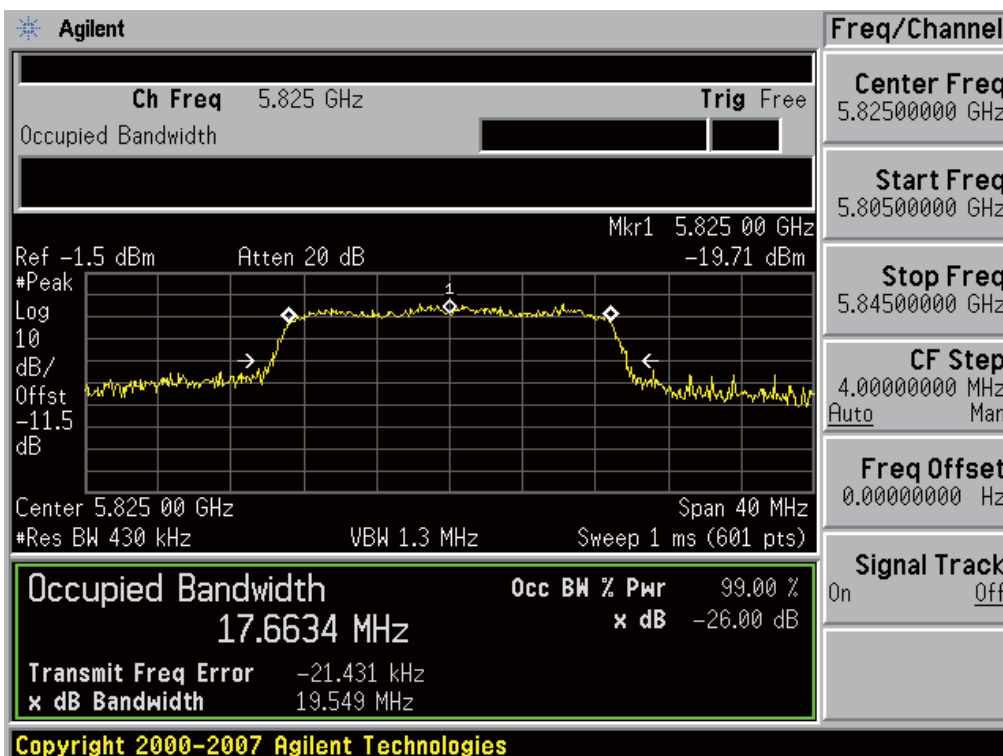


| FCC PT.15.247 TEST REPORT | | FCC & IC CERTIFICATION REPORT | | www.hct.co.kr | |
|-----------------------------------|------------------------------------|-------------------------------|------------------------|--|--|
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFB003D | IC: 2703H-TWFB003D | |

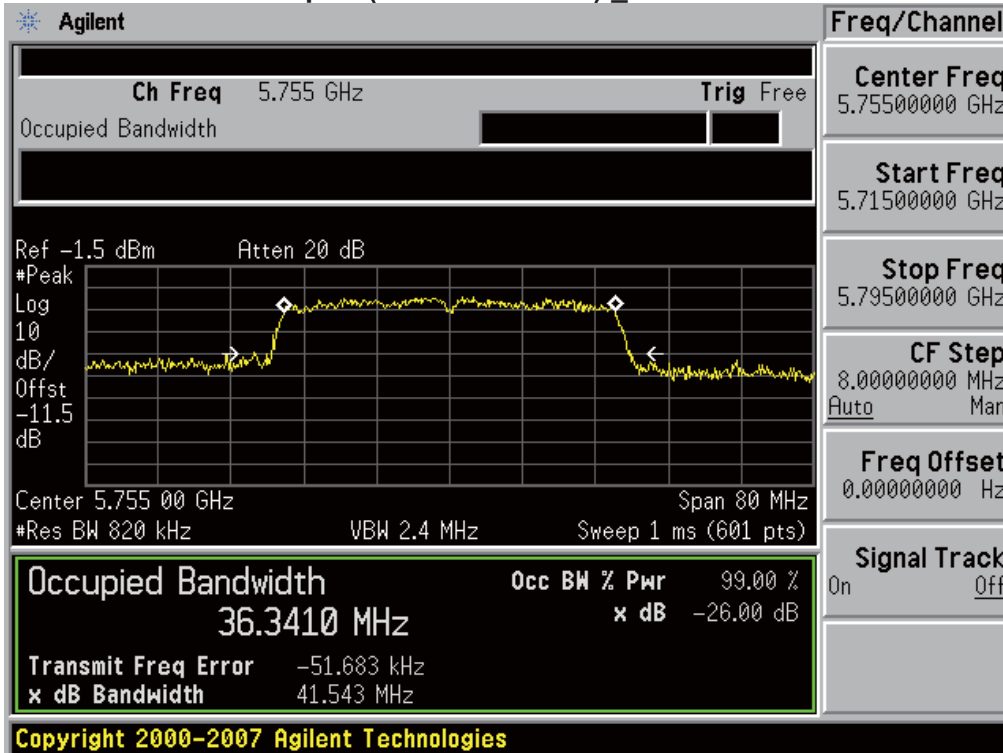
OBW plot (802.11n-CH 157) _20 MHz BW



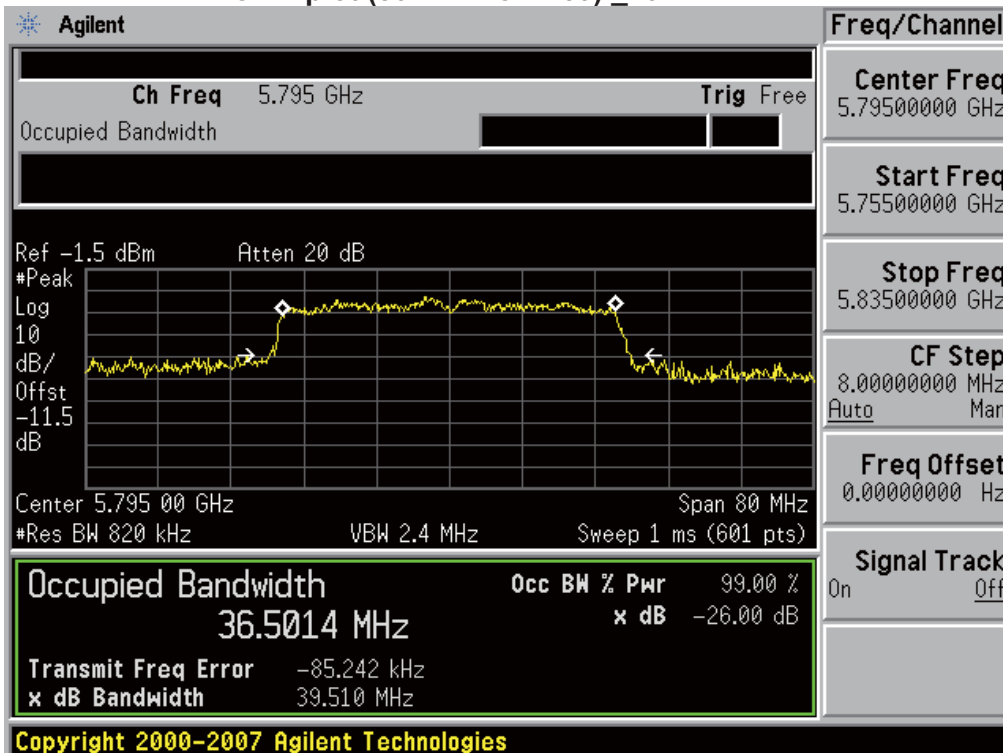
OBW plot (802.11n-CH 165) _20 MHz BW



OBW plot (802.11n-CH 151) _40 MHz BW



OBW plot (802.11n-CH 159) _40 MHz BW



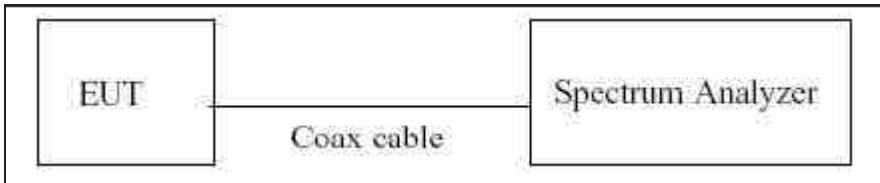
7.3 OUTPUT POWER MEASUREMENT

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

A transmitter antenna terminal of EUT is connected to the input of a Spectrum Analyzer. Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt.

■ TEST CONFIGURATION



■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to

RBW: 1 MHz

VBW: 1 MHz

SPAN: 40 MHz

Detector Mode = Peak

| | | | | |
|-----------------------------------|------------------------------------|-------------------------------|-------------------------|--|
| FCC PT.15.247 TEST REPORT | | FCC & IC CERTIFICATION REPORT | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: Wi-Fi Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

■ TEST RESULTS_Ant.0

Conducted Output Power Measurements (802.11b Mode)

| 802.11b Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2412 | 1 | 1 Mbps | 14.45 | 30 |
| | | 2 Mbps | 14.71 | 30 |
| | | 5.5 Mbps | 16.37 | 30 |
| | | 11 Mbps | 17.99 | 30 |
| 2437 | 6 | 1 Mbps | 15.83 | 30 |
| | | 2 Mbps | 15.85 | 30 |
| | | 5.5 Mbps | 17.61 | 30 |
| | | 11 Mbps | 19.18 | 30 |
| 2462 | 11 | 1 Mbps | 15.35 | 30 |
| | | 2 Mbps | 15.53 | 30 |
| | | 5.5 Mbps | 17.44 | 30 |
| | | 11 Mbps | 19.02 | 30 |

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11b Mode)

| 802.11b Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2412 | 1 | 1 Mbps | 13.91 | 30 |
| | | 2 Mbps | 14.11 | 30 |
| | | 5.5 Mbps | 15.79 | 30 |
| | | 11 Mbps | 17.34 | 30 |
| 2437 | 6 | 1 Mbps | 15.08 | 30 |
| | | 2 Mbps | 15.18 | 30 |
| | | 5.5 Mbps | 16.93 | 30 |
| | | 11 Mbps | 18.34 | 30 |
| 2462 | 11 | 1 Mbps | 15.28 | 30 |
| | | 2 Mbps | 15.34 | 30 |
| | | 5.5 Mbps | 17.26 | 30 |
| | | 11 Mbps | 18.78 | 30 |

■ TEST RESULTS_Ant.0

Conducted Output Power Measurements (802.11g Mode)

| 802.11g Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2412 | 1 | 6 Mbps | 14.64 | 30 |
| | | 9 Mbps | 14.69 | 30 |
| | | 12 Mbps | 14.72 | 30 |
| | | 18 Mbps | 14.62 | 30 |
| | | 24 Mbps | 15.05 | 30 |
| | | 36 Mbps | 15.01 | 30 |
| | | 48 Mbps | 15.06 | 30 |
| | | 54 Mbps | 15.09 | 30 |
| 2437 | 6 | 6 Mbps | 23.89 | 30 |
| | | 9 Mbps | 23.79 | 30 |
| | | 12 Mbps | 23.94 | 30 |
| | | 18 Mbps | 23.80 | 30 |
| | | 24 Mbps | 24.11 | 30 |
| | | 36 Mbps | 24.12 | 30 |
| | | 48 Mbps | 24.09 | 30 |
| | | 54 Mbps | 24.25 | 30 |
| 2462 | 11 | 6 Mbps | 19.34 | 30 |
| | | 9 Mbps | 19.07 | 30 |
| | | 12 Mbps | 19.52 | 30 |
| | | 18 Mbps | 19.45 | 30 |
| | | 24 Mbps | 19.89 | 30 |
| | | 36 Mbps | 19.83 | 30 |
| | | 48 Mbps | 19.79 | 30 |
| | | 54 Mbps | 19.97 | 30 |

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11g Mode)

| 802.11g Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2412 | 1 | 6 Mbps | 12.71 | 30 |
| | | 9 Mbps | 13.38 | 30 |
| | | 12 Mbps | 12.92 | 30 |
| | | 18 Mbps | 12.67 | 30 |
| | | 24 Mbps | 13.25 | 30 |
| | | 36 Mbps | 13.22 | 30 |
| | | 48 Mbps | 13.28 | 30 |
| | | 54 Mbps | 13.31 | 30 |
| 2437 | 6 | 6 Mbps | 23.51 | 30 |
| | | 9 Mbps | 23.50 | 30 |
| | | 12 Mbps | 23.59 | 30 |
| | | 18 Mbps | 23.45 | 30 |
| | | 24 Mbps | 24.20 | 30 |
| | | 36 Mbps | 23.90 | 30 |
| | | 48 Mbps | 23.95 | 30 |
| | | 54 Mbps | 23.97 | 30 |
| 2462 | 11 | 6 Mbps | 18.80 | 30 |
| | | 9 Mbps | 18.48 | 30 |
| | | 12 Mbps | 18.92 | 30 |
| | | 18 Mbps | 19.05 | 30 |
| | | 24 Mbps | 19.28 | 30 |
| | | 36 Mbps | 19.24 | 30 |
| | | 48 Mbps | 19.13 | 30 |
| | | 54 Mbps | 19.28 | 30 |

■ Measure and sum data

Conducted Output Power Measurements (802.11g Mode)

| 802.11g Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2412 | 1 | 6 Mbps | 16.79 | 30 |
| | | 9 Mbps | 17.09 | 30 |
| | | 12 Mbps | 16.92 | 30 |
| | | 18 Mbps | 16.76 | 30 |
| | | 24 Mbps | 17.25 | 30 |
| | | 36 Mbps | 17.22 | 30 |
| | | 48 Mbps | 17.27 | 30 |
| | | 54 Mbps | 17.30 | 30 |
| 2437 | 6 | 6 Mbps | 26.71 | 30 |
| | | 9 Mbps | 26.66 | 30 |
| | | 12 Mbps | 26.78 | 30 |
| | | 18 Mbps | 26.64 | 30 |
| | | 24 Mbps | 27.17 | 30 |
| | | 36 Mbps | 27.02 | 30 |
| | | 48 Mbps | 27.03 | 30 |
| | | 54 Mbps | 27.12 | 30 |
| 2462 | 11 | 6 Mbps | 22.09 | 30 |
| | | 9 Mbps | 21.80 | 30 |
| | | 12 Mbps | 22.24 | 30 |
| | | 18 Mbps | 22.26 | 30 |
| | | 24 Mbps | 22.61 | 30 |
| | | 36 Mbps | 22.56 | 30 |
| | | 48 Mbps | 22.48 | 30 |
| | | 54 Mbps | 22.65 | 30 |

■ TEST RESULTS_Ant.0

Conducted Output Power Measurements (802.11n Mode)_20 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2412 | 1 | 6 Mbps | 16.63 | 30 |
| | | 9 Mbps | 16.68 | 30 |
| | | 12 Mbps | 16.61 | 30 |
| | | 18 Mbps | 17.05 | 30 |
| | | 24 Mbps | 16.99 | 30 |
| | | 36 Mbps | 17.07 | 30 |
| | | 48 Mbps | 17.13 | 30 |
| | | 54 Mbps | 17.02 | 30 |
| 2437 | 6 | 6 Mbps | 24.04 | 30 |
| | | 9 Mbps | 24.00 | 30 |
| | | 12 Mbps | 24.11 | 30 |
| | | 18 Mbps | 24.55 | 30 |
| | | 24 Mbps | 24.51 | 30 |
| | | 36 Mbps | 24.23 | 30 |
| | | 48 Mbps | 24.38 | 30 |
| | | 54 Mbps | 24.33 | 30 |
| 2462 | 11 | 6 Mbps | 18.03 | 30 |
| | | 9 Mbps | 18.38 | 30 |
| | | 12 Mbps | 18.36 | 30 |
| | | 18 Mbps | 18.83 | 30 |
| | | 24 Mbps | 18.87 | 30 |
| | | 36 Mbps | 18.92 | 30 |
| | | 48 Mbps | 18.80 | 30 |
| | | 54 Mbps | 18.79 | 30 |

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n Mode)_20 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2412 | 1 | 6 Mbps | 15.52 | 30 |
| | | 9 Mbps | 15.48 | 30 |
| | | 12 Mbps | 15.46 | 30 |
| | | 18 Mbps | 15.96 | 30 |
| | | 24 Mbps | 15.85 | 30 |
| | | 36 Mbps | 15.89 | 30 |
| | | 48 Mbps | 15.90 | 30 |
| | | 54 Mbps | 15.96 | 30 |
| 2437 | 6 | 6 Mbps | 23.71 | 30 |
| | | 9 Mbps | 23.64 | 30 |
| | | 12 Mbps | 23.70 | 30 |
| | | 18 Mbps | 23.97 | 30 |
| | | 24 Mbps | 24.00 | 30 |
| | | 36 Mbps | 23.95 | 30 |
| | | 48 Mbps | 23.99 | 30 |
| | | 54 Mbps | 24.27 | 30 |
| 2462 | 11 | 6 Mbps | 17.51 | 30 |
| | | 9 Mbps | 17.78 | 30 |
| | | 12 Mbps | 17.68 | 30 |
| | | 18 Mbps | 18.26 | 30 |
| | | 24 Mbps | 18.22 | 30 |
| | | 36 Mbps | 18.17 | 30 |
| | | 48 Mbps | 18.30 | 30 |
| | | 54 Mbps | 18.28 | 30 |

■ Measure and sum data

Conducted Output Power Measurements (802.11n Mode)_20 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2412 | 1 | 6 Mbps | 19.12 | 30 |
| | | 9 Mbps | 19.13 | 30 |
| | | 12 Mbps | 19.08 | 30 |
| | | 18 Mbps | 19.55 | 30 |
| | | 24 Mbps | 19.47 | 30 |
| | | 36 Mbps | 19.53 | 30 |
| | | 48 Mbps | 19.57 | 30 |
| | | 54 Mbps | 19.53 | 30 |
| 2437 | 6 | 6 Mbps | 26.89 | 30 |
| | | 9 Mbps | 26.83 | 30 |
| | | 12 Mbps | 26.92 | 30 |
| | | 18 Mbps | 27.28 | 30 |
| | | 24 Mbps | 27.27 | 30 |
| | | 36 Mbps | 27.10 | 30 |
| | | 48 Mbps | 27.20 | 30 |
| | | 54 Mbps | 27.31 | 30 |
| 2462 | 11 | 6 Mbps | 20.79 | 30 |
| | | 9 Mbps | 21.10 | 30 |
| | | 12 Mbps | 21.04 | 30 |
| | | 18 Mbps | 21.56 | 30 |
| | | 24 Mbps | 21.57 | 30 |
| | | 36 Mbps | 21.57 | 30 |
| | | 48 Mbps | 21.57 | 30 |
| | | 54 Mbps | 21.55 | 30 |

■ TEST RESULTS_Ant.0

Conducted Output Power Measurements (802.11n Mode)_40 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2422 | 3 | 13.5 Mbps | 17.54 | 30 |
| | | 27 Mbps | 16.96 | 30 |
| | | 40.5 Mbps | 17.41 | 30 |
| | | 54 Mbps | 17.53 | 30 |
| | | 81 Mbps | 17.44 | 30 |
| | | 108 Mbps | 17.53 | 30 |
| | | 121.5 Mbps | 17.49 | 30 |
| | | 135 Mbps | 17.40 | 30 |
| 2437 | 6 | 13.5 Mbps | 17.71 | 30 |
| | | 27 Mbps | 17.08 | 30 |
| | | 40.5 Mbps | 17.17 | 30 |
| | | 54 Mbps | 17.39 | 30 |
| | | 81 Mbps | 17.28 | 30 |
| | | 108 Mbps | 17.43 | 30 |
| | | 121.5 Mbps | 17.35 | 30 |
| | | 135 Mbps | 17.36 | 30 |
| 2452 | 9 | 13.5 Mbps | 17.66 | 30 |
| | | 27 Mbps | 16.78 | 30 |
| | | 40.5 Mbps | 16.76 | 30 |
| | | 54 Mbps | 17.27 | 30 |
| | | 81 Mbps | 17.17 | 30 |
| | | 108 Mbps | 17.26 | 30 |
| | | 121.5 Mbps | 17.10 | 30 |
| | | 135 Mbps | 17.13 | 30 |

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n Mode) _40 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2422 | 3 | 13.5 Mbps | 17.41 | 30 |
| | | 27 Mbps | 17.55 | 30 |
| | | 40.5 Mbps | 17.45 | 30 |
| | | 54 Mbps | 17.87 | 30 |
| | | 81 Mbps | 17.94 | 30 |
| | | 108 Mbps | 18.23 | 30 |
| | | 121.5 Mbps | 17.85 | 30 |
| | | 135 Mbps | 17.95 | 30 |
| 2437 | 6 | 13.5 Mbps | 17.17 | 30 |
| | | 27 Mbps | 17.50 | 30 |
| | | 40.5 Mbps | 17.40 | 30 |
| | | 54 Mbps | 17.94 | 30 |
| | | 81 Mbps | 17.75 | 30 |
| | | 108 Mbps | 17.87 | 30 |
| | | 121.5 Mbps | 18.19 | 30 |
| | | 135 Mbps | 17.77 | 30 |
| 2452 | 9 | 13.5 Mbps | 17.49 | 30 |
| | | 27 Mbps | 16.98 | 30 |
| | | 40.5 Mbps | 16.82 | 30 |
| | | 54 Mbps | 17.17 | 30 |
| | | 81 Mbps | 17.26 | 30 |
| | | 108 Mbps | 17.27 | 30 |
| | | 121.5 Mbps | 17.06 | 30 |
| | | 135 Mbps | 17.35 | 30 |

■ Measure and sum data

Conducted Output Power Measurements (802.11n Mode) _40 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2422 | 3 | 13.5 Mbps | 20.49 | 30 |
| | | 27 Mbps | 20.28 | 30 |
| | | 40.5 Mbps | 20.44 | 30 |
| | | 54 Mbps | 20.71 | 30 |
| | | 81 Mbps | 20.71 | 30 |
| | | 108 Mbps | 20.90 | 30 |
| | | 121.5 Mbps | 20.68 | 30 |
| | | 135 Mbps | 20.69 | 30 |
| 2437 | 6 | 13.5 Mbps | 20.46 | 30 |
| | | 27 Mbps | 20.31 | 30 |
| | | 40.5 Mbps | 20.30 | 30 |
| | | 54 Mbps | 20.68 | 30 |
| | | 81 Mbps | 20.53 | 30 |
| | | 108 Mbps | 20.67 | 30 |
| | | 121.5 Mbps | 20.80 | 30 |
| | | 135 Mbps | 20.58 | 30 |
| 2452 | 9 | 13.5 Mbps | 20.59 | 30 |
| | | 27 Mbps | 19.89 | 30 |
| | | 40.5 Mbps | 19.80 | 30 |
| | | 54 Mbps | 20.23 | 30 |
| | | 81 Mbps | 20.23 | 30 |
| | | 108 Mbps | 20.28 | 30 |
| | | 121.5 Mbps | 20.09 | 30 |
| | | 135 Mbps | 20.25 | 30 |

■ TEST RESULTS_Ant.0

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

| 802.11a Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 5745 | 149 | 6 Mbps | 21.29 | 30 |
| | | 9 Mbps | 21.27 | 30 |
| | | 12 Mbps | 21.23 | 30 |
| | | 18 Mbps | 21.13 | 30 |
| | | 24 Mbps | 21.71 | 30 |
| | | 36 Mbps | 21.58 | 30 |
| | | 48 Mbps | 21.66 | 30 |
| | | 54 Mbps | 21.71 | 30 |
| 5785 | 157 | 6 Mbps | 20.90 | 30 |
| | | 9 Mbps | 20.81 | 30 |
| | | 12 Mbps | 20.89 | 30 |
| | | 18 Mbps | 20.83 | 30 |
| | | 24 Mbps | 21.31 | 30 |
| | | 36 Mbps | 21.36 | 30 |
| | | 48 Mbps | 21.37 | 30 |
| | | 54 Mbps | 21.43 | 30 |
| 5825 | 165 | 6 Mbps | 20.65 | 30 |
| | | 9 Mbps | 20.63 | 30 |
| | | 12 Mbps | 20.74 | 30 |
| | | 18 Mbps | 20.68 | 30 |
| | | 24 Mbps | 21.17 | 30 |
| | | 36 Mbps | 21.05 | 30 |
| | | 48 Mbps | 21.12 | 30 |
| | | 54 Mbps | 20.88 | 30 |

■ TEST RESULTS_Ant.1

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

| 802.11a Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 5745 | 149 | 6 Mbps | 20.57 | 30 |
| | | 9 Mbps | 20.42 | 30 |
| | | 12 Mbps | 20.55 | 30 |
| | | 18 Mbps | 20.42 | 30 |
| | | 24 Mbps | 20.89 | 30 |
| | | 36 Mbps | 20.88 | 30 |
| | | 48 Mbps | 20.94 | 30 |
| | | 54 Mbps | 20.98 | 30 |
| 5785 | 157 | 6 Mbps | 20.21 | 30 |
| | | 9 Mbps | 20.17 | 30 |
| | | 12 Mbps | 20.29 | 30 |
| | | 18 Mbps | 20.20 | 30 |
| | | 24 Mbps | 20.75 | 30 |
| | | 36 Mbps | 20.62 | 30 |
| | | 48 Mbps | 20.64 | 30 |
| | | 54 Mbps | 20.72 | 30 |
| 5825 | 165 | 6 Mbps | 20.09 | 30 |
| | | 9 Mbps | 20.13 | 30 |
| | | 12 Mbps | 20.18 | 30 |
| | | 18 Mbps | 20.11 | 30 |
| | | 24 Mbps | 20.60 | 30 |
| | | 36 Mbps | 20.49 | 30 |
| | | 48 Mbps | 20.52 | 30 |
| | | 54 Mbps | 20.51 | 30 |

■ Measure and sum data

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

| 802.11a Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 5745 | 149 | 6 Mbps | 23.96 | 30 |
| | | 9 Mbps | 23.88 | 30 |
| | | 12 Mbps | 23.91 | 30 |
| | | 18 Mbps | 23.80 | 30 |
| | | 24 Mbps | 24.33 | 30 |
| | | 36 Mbps | 24.25 | 30 |
| | | 48 Mbps | 24.33 | 30 |
| | | 54 Mbps | 24.37 | 30 |
| 5785 | 157 | 6 Mbps | 23.58 | 30 |
| | | 9 Mbps | 23.51 | 30 |
| | | 12 Mbps | 23.61 | 30 |
| | | 18 Mbps | 23.54 | 30 |
| | | 24 Mbps | 24.05 | 30 |
| | | 36 Mbps | 24.02 | 30 |
| | | 48 Mbps | 24.03 | 30 |
| | | 54 Mbps | 24.10 | 30 |
| 5825 | 165 | 6 Mbps | 23.39 | 30 |
| | | 9 Mbps | 23.40 | 30 |
| | | 12 Mbps | 23.48 | 30 |
| | | 18 Mbps | 23.41 | 30 |
| | | 24 Mbps | 23.90 | 30 |
| | | 36 Mbps | 23.79 | 30 |
| | | 48 Mbps | 23.84 | 30 |
| | | 54 Mbps | 23.71 | 30 |

■ TEST RESULTS_Ant.0

Conducted Output Power Measurements (802.11n Mode: 5745~5825)_20 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 5745 | 149 | 6.5 Mbps | 21.21 | 30 |
| | | 13 Mbps | 21.33 | 30 |
| | | 19.5 Mbps | 21.13 | 30 |
| | | 26 Mbps | 21.66 | 30 |
| | | 39 Mbps | 21.60 | 30 |
| | | 52 Mbps | 21.55 | 30 |
| | | 58.5 Mbps | 21.63 | 30 |
| | | 65 Mbps | 21.53 | 30 |
| 5785 | 157 | 6.5 Mbps | 20.80 | 30 |
| | | 13 Mbps | 20.82 | 30 |
| | | 19.5 Mbps | 20.88 | 30 |
| | | 26 Mbps | 21.18 | 30 |
| | | 39 Mbps | 21.20 | 30 |
| | | 52 Mbps | 21.24 | 30 |
| | | 58.5 Mbps | 21.32 | 30 |
| | | 65 Mbps | 21.33 | 30 |
| 5825 | 165 | 6.5 Mbps | 20.60 | 30 |
| | | 13 Mbps | 20.67 | 30 |
| | | 19.5 Mbps | 20.55 | 30 |
| | | 26 Mbps | 21.05 | 30 |
| | | 39 Mbps | 21.00 | 30 |
| | | 52 Mbps | 21.06 | 30 |
| | | 58.5 Mbps | 21.09 | 30 |
| | | 65 Mbps | 21.16 | 30 |

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n Mode: 5745~5825) _20 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 5745 | 149 | 6.5 Mbps | 20.84 | 30 |
| | | 13 Mbps | 20.66 | 30 |
| | | 19.5 Mbps | 20.57 | 30 |
| | | 26 Mbps | 21.03 | 30 |
| | | 39 Mbps | 21.02 | 30 |
| | | 52 Mbps | 20.99 | 30 |
| | | 58.5 Mbps | 21.04 | 30 |
| | | 65 Mbps | 21.02 | 30 |
| 5785 | 157 | 6.5 Mbps | 20.28 | 30 |
| | | 13 Mbps | 20.37 | 30 |
| | | 19.5 Mbps | 20.24 | 30 |
| | | 26 Mbps | 20.83 | 30 |
| | | 39 Mbps | 20.67 | 30 |
| | | 52 Mbps | 20.69 | 30 |
| | | 58.5 Mbps | 20.68 | 30 |
| | | 65 Mbps | 20.72 | 30 |
| 5825 | 165 | 6.5 Mbps | 20.21 | 30 |
| | | 13 Mbps | 20.28 | 30 |
| | | 19.5 Mbps | 20.19 | 30 |
| | | 26 Mbps | 20.67 | 30 |
| | | 39 Mbps | 20.64 | 30 |
| | | 52 Mbps | 20.66 | 30 |
| | | 58.5 Mbps | 20.70 | 30 |
| | | 65 Mbps | 20.80 | 30 |

■ Measure and sum data

Conducted Output Power Measurements (802.11n Mode: 5745~5825) _20 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 5745 | 149 | 6.5 Mbps | 24.04 | 30 |
| | | 13 Mbps | 24.02 | 30 |
| | | 19.5 Mbps | 23.87 | 30 |
| | | 26 Mbps | 24.37 | 30 |
| | | 39 Mbps | 24.33 | 30 |
| | | 52 Mbps | 24.29 | 30 |
| | | 58.5 Mbps | 24.36 | 30 |
| | | 65 Mbps | 24.29 | 30 |
| 5785 | 157 | 6.5 Mbps | 23.56 | 30 |
| | | 13 Mbps | 23.61 | 30 |
| | | 19.5 Mbps | 23.58 | 30 |
| | | 26 Mbps | 24.02 | 30 |
| | | 39 Mbps | 23.95 | 30 |
| | | 52 Mbps | 23.98 | 30 |
| | | 58.5 Mbps | 24.02 | 30 |
| | | 65 Mbps | 24.05 | 30 |
| 5825 | 165 | 6.5 Mbps | 23.42 | 30 |
| | | 13 Mbps | 23.49 | 30 |
| | | 19.5 Mbps | 23.38 | 30 |
| | | 26 Mbps | 23.87 | 30 |
| | | 39 Mbps | 23.83 | 30 |
| | | 52 Mbps | 23.87 | 30 |
| | | 58.5 Mbps | 23.91 | 30 |
| | | 65 Mbps | 23.99 | 30 |

■ TEST RESULTS_Ant.0

Conducted Output Power Measurements (802.11n Mode: 5755~5795) _40 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 5755 | 151 | 13.5 Mbps | 12.18 | 30 |
| | | 27 Mbps | 11.42 | 30 |
| | | 40.5 Mbps | 10.83 | 30 |
| | | 54 Mbps | 10.39 | 30 |
| | | 81 Mbps | 9.84 | 30 |
| | | 108 Mbps | 9.20 | 30 |
| | | 121.5 Mbps | 9.07 | 30 |
| | | 135 Mbps | 8.87 | 30 |
| 5795 | 159 | 13.5 Mbps | 11.80 | 30 |
| | | 27 Mbps | 10.98 | 30 |
| | | 40.5 Mbps | 10.33 | 30 |
| | | 54 Mbps | 9.87 | 30 |
| | | 81 Mbps | 9.34 | 30 |
| | | 108 Mbps | 8.83 | 30 |
| | | 121.5 Mbps | 8.70 | 30 |
| | | 135 Mbps | 8.52 | 30 |

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n Mode: 5755~5795) _40 MHz BW

| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 5755 | 151 | 13.5 Mbps | 11.50 | 30 |
| | | 27 Mbps | 10.67 | 30 |
| | | 40.5 Mbps | 10.16 | 30 |
| | | 54 Mbps | 9.76 | 30 |
| | | 81 Mbps | 9.09 | 30 |
| | | 108 Mbps | 8.54 | 30 |
| | | 121.5 Mbps | 8.40 | 30 |
| | | 135 Mbps | 8.25 | 30 |
| 5795 | 159 | 13.5 Mbps | 11.24 | 30 |
| | | 27 Mbps | 10.47 | 30 |
| | | 40.5 Mbps | 9.81 | 30 |
| | | 54 Mbps | 9.37 | 30 |
| | | 81 Mbps | 8.84 | 30 |
| | | 108 Mbps | 8.26 | 30 |
| | | 121.5 Mbps | 8.14 | 30 |
| | | 135 Mbps | 7.97 | 30 |

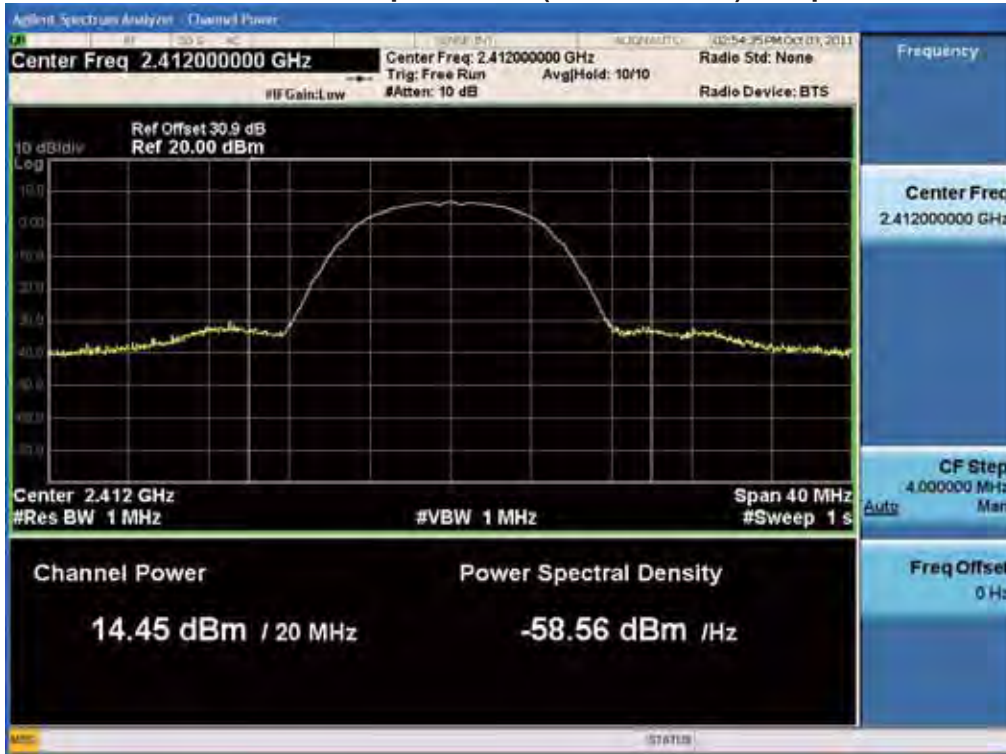
■ Measure and sum data

Conducted Output Power Measurements (802.11n Mode: 5755~5795) _40 MHz BW

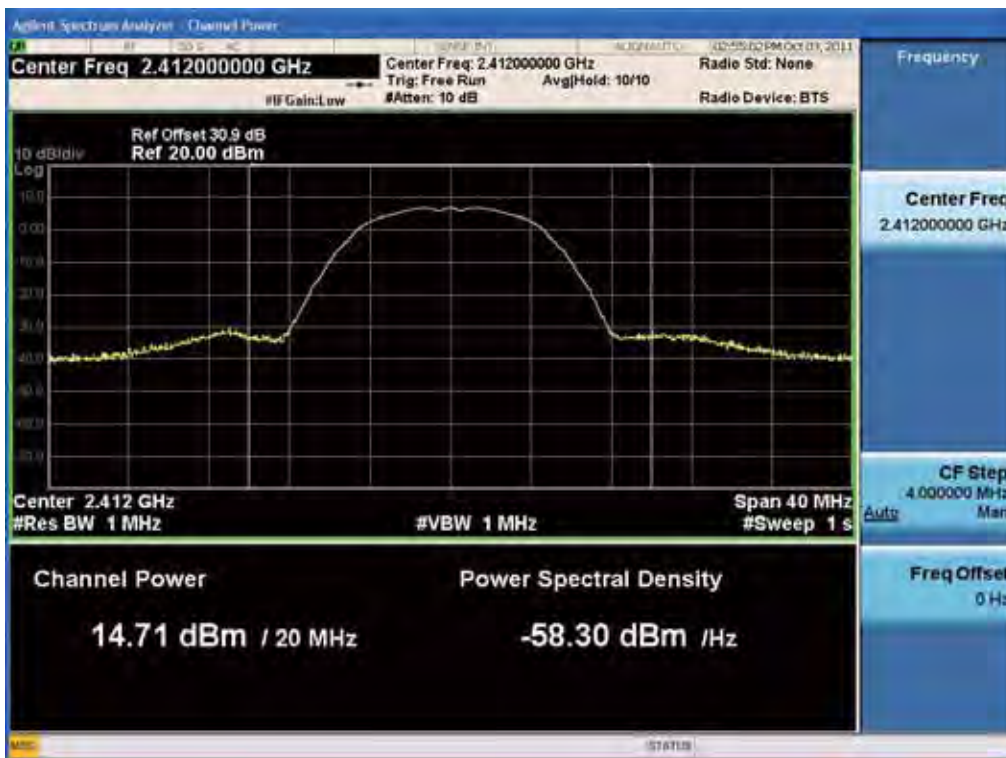
| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 5755 | 151 | 13.5 Mbps | 14.86 | 30 |
| | | 27 Mbps | 14.07 | 30 |
| | | 40.5 Mbps | 13.52 | 30 |
| | | 54 Mbps | 13.10 | 30 |
| | | 81 Mbps | 12.49 | 30 |
| | | 108 Mbps | 11.89 | 30 |
| | | 121.5 Mbps | 11.76 | 30 |
| | | 135 Mbps | 11.58 | 30 |
| 5795 | 159 | 13.5 Mbps | 14.54 | 30 |
| | | 27 Mbps | 13.74 | 30 |
| | | 40.5 Mbps | 13.09 | 30 |
| | | 54 Mbps | 12.64 | 30 |
| | | 81 Mbps | 12.11 | 30 |
| | | 108 Mbps | 11.56 | 30 |
| | | 121.5 Mbps | 11.44 | 30 |
| | | 135 Mbps | 11.26 | 30 |

RESULT PLOTS_Ant.0

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



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



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

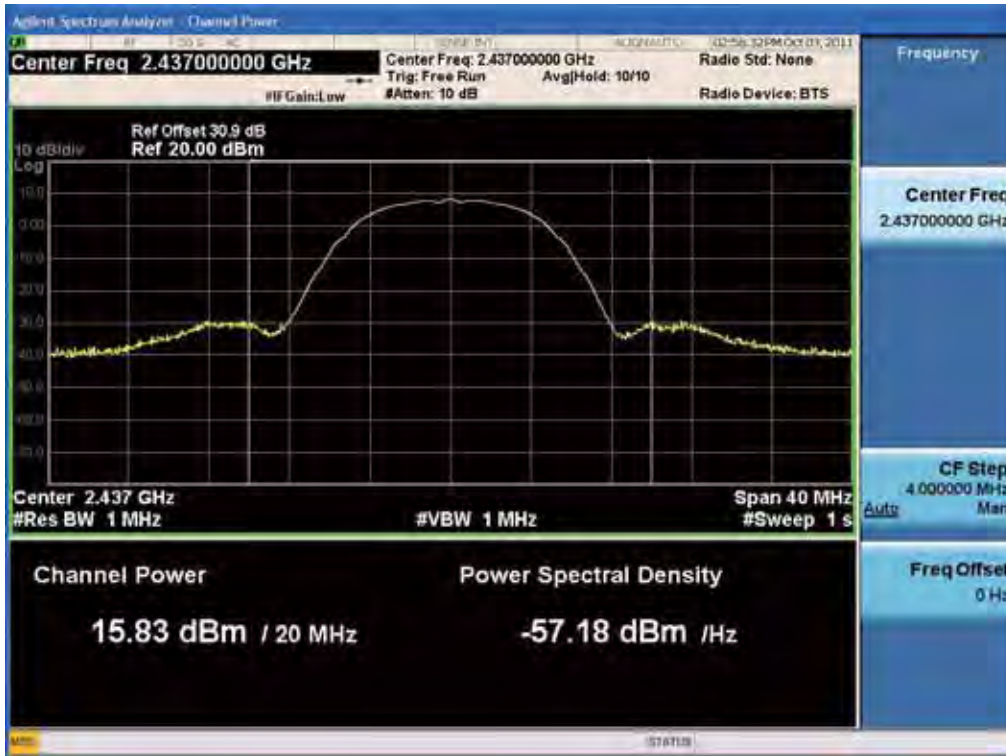


Conducted Output Power (802.11b-CH 1) 11Mbps

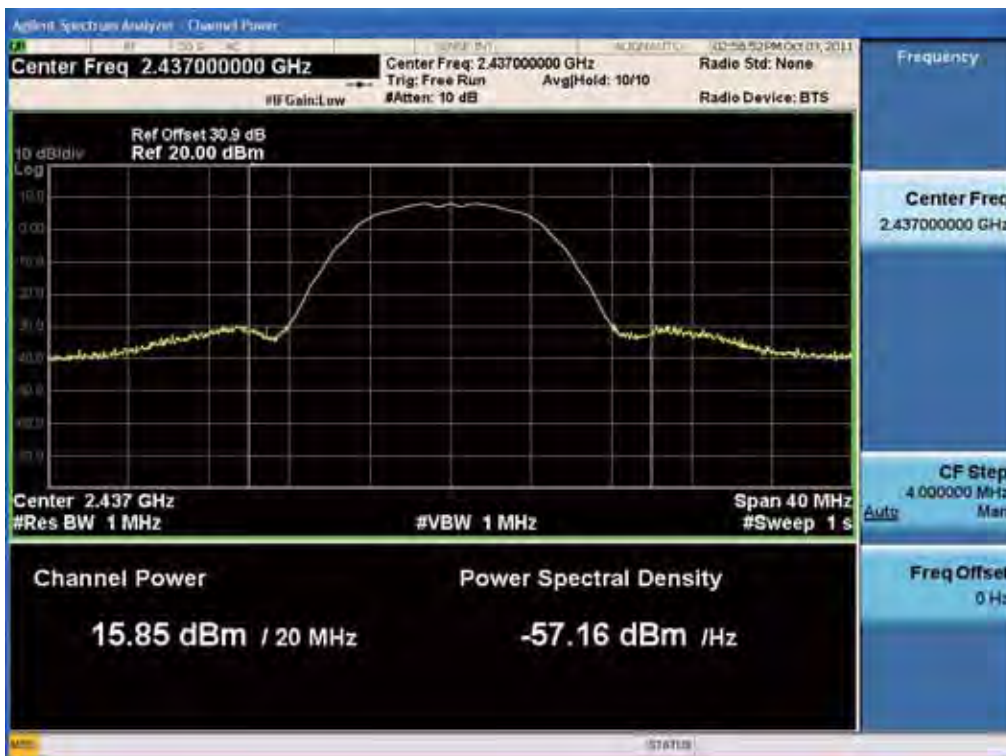


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Conducted Output Power (802.11b-CH 6) 1Mbps

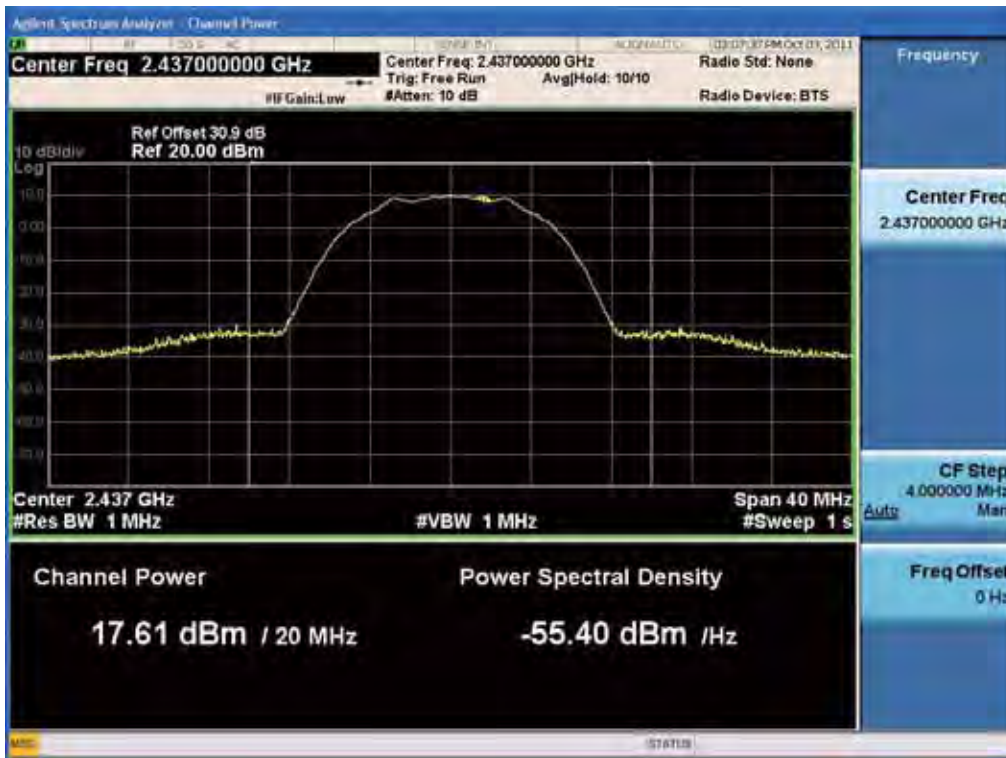


Conducted Output Power (802.11b-CH 6) 2Mbps

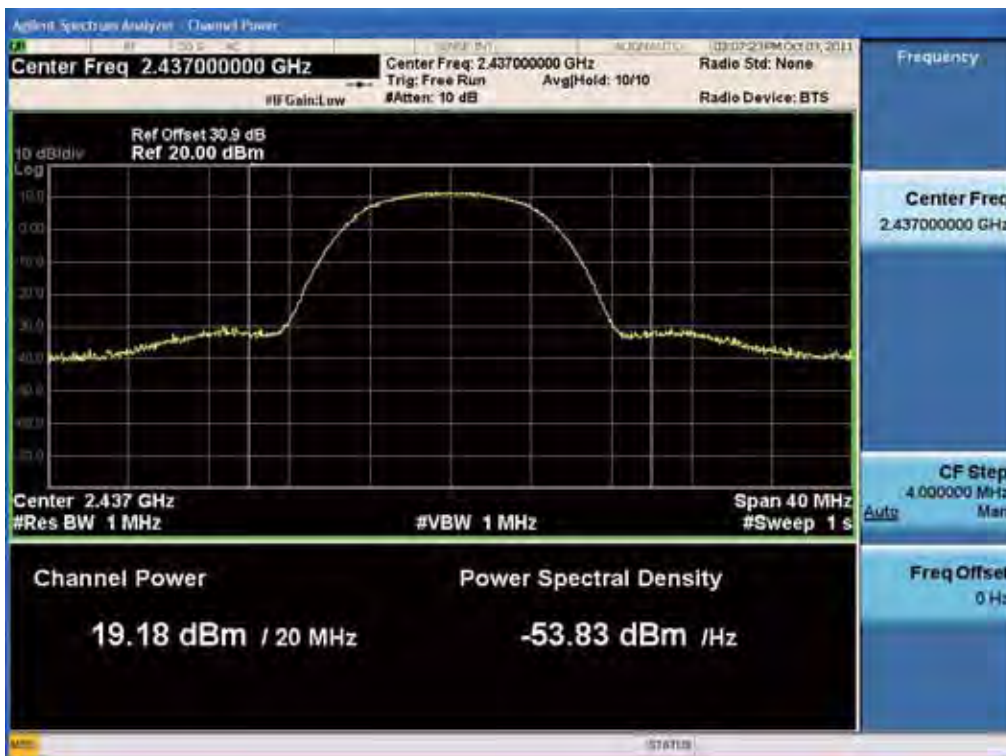


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Conducted Output Power (802.11b-CH 6) 5.5Mbps

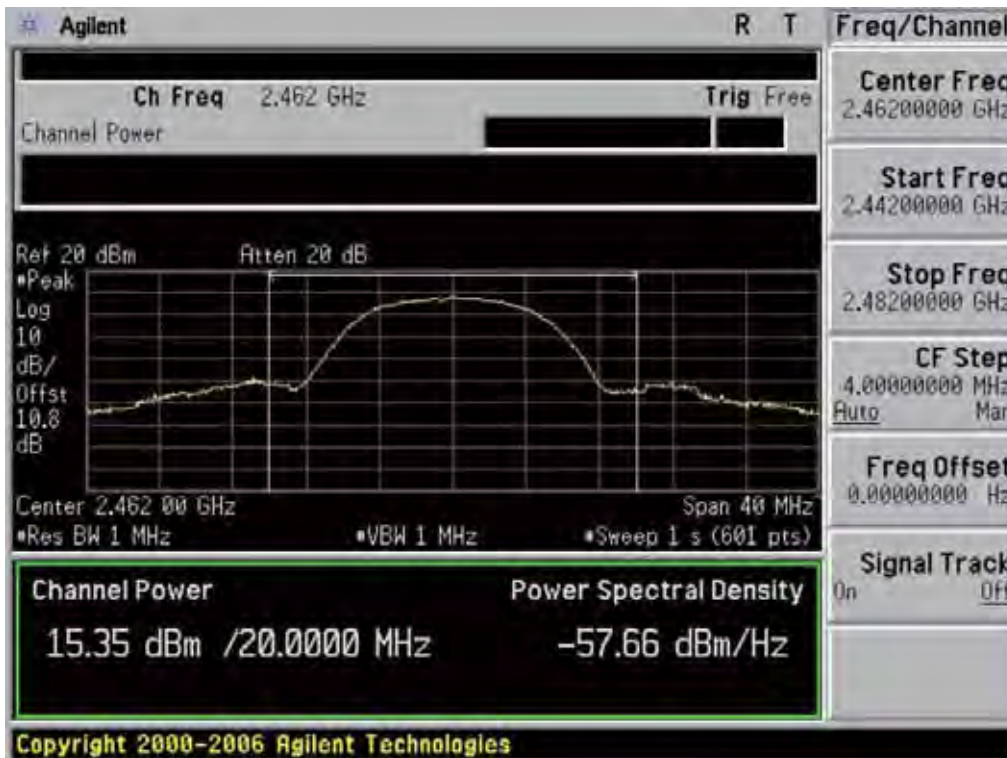


Conducted Output Power (802.11b-CH 6) 11Mbps

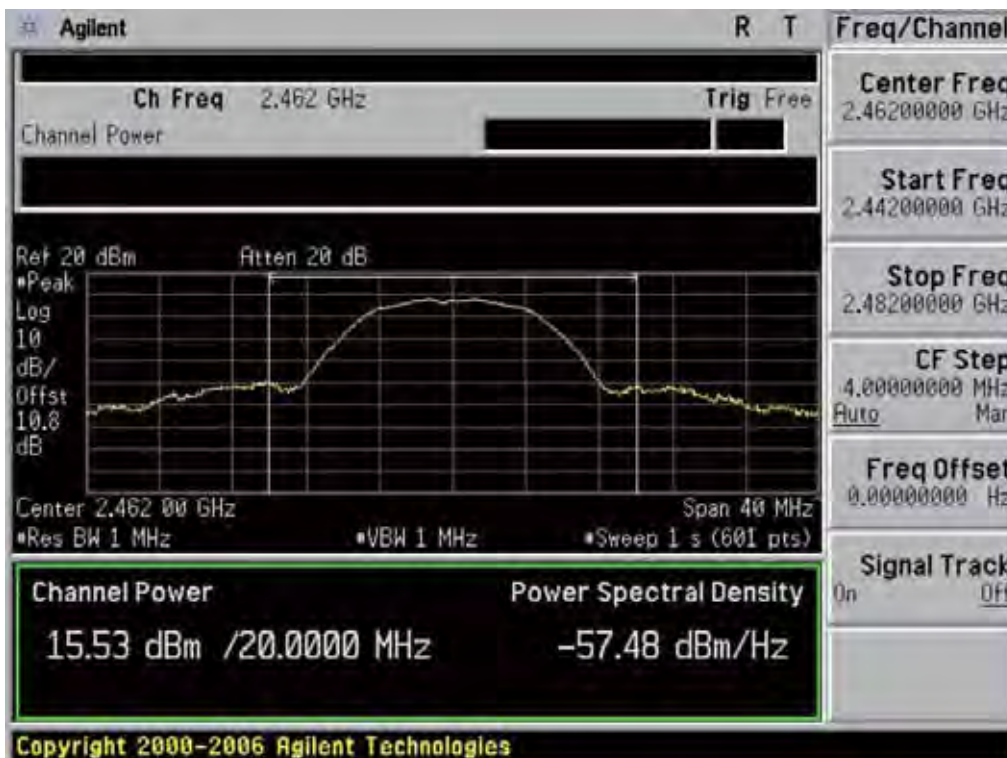


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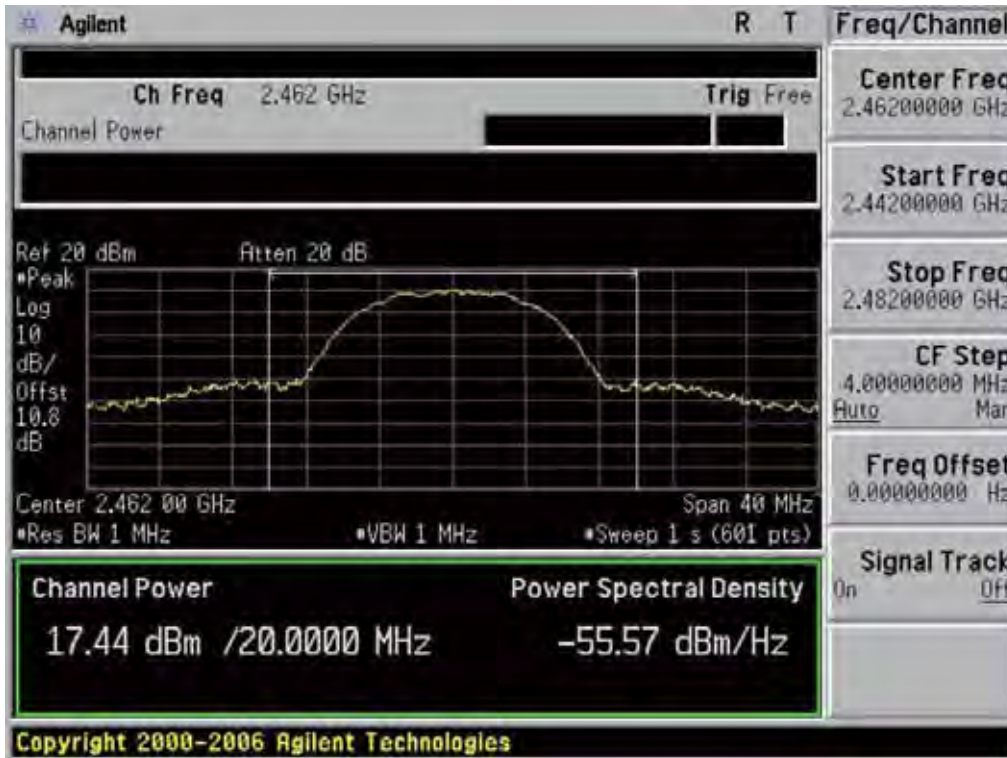
Conducted Output Power (802.11b-CH 11) 1Mbps



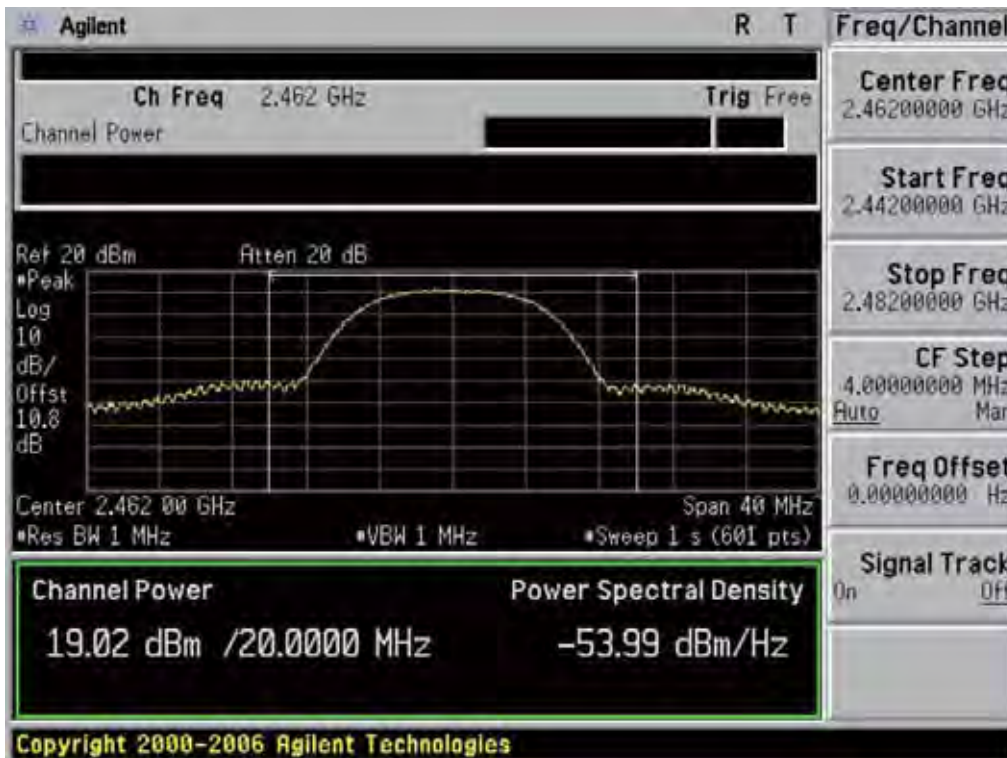
Conducted Output Power (802.11b-CH 11) 2Mbps



Conducted Output Power (802.11b-CH 11) 5.5Mbps

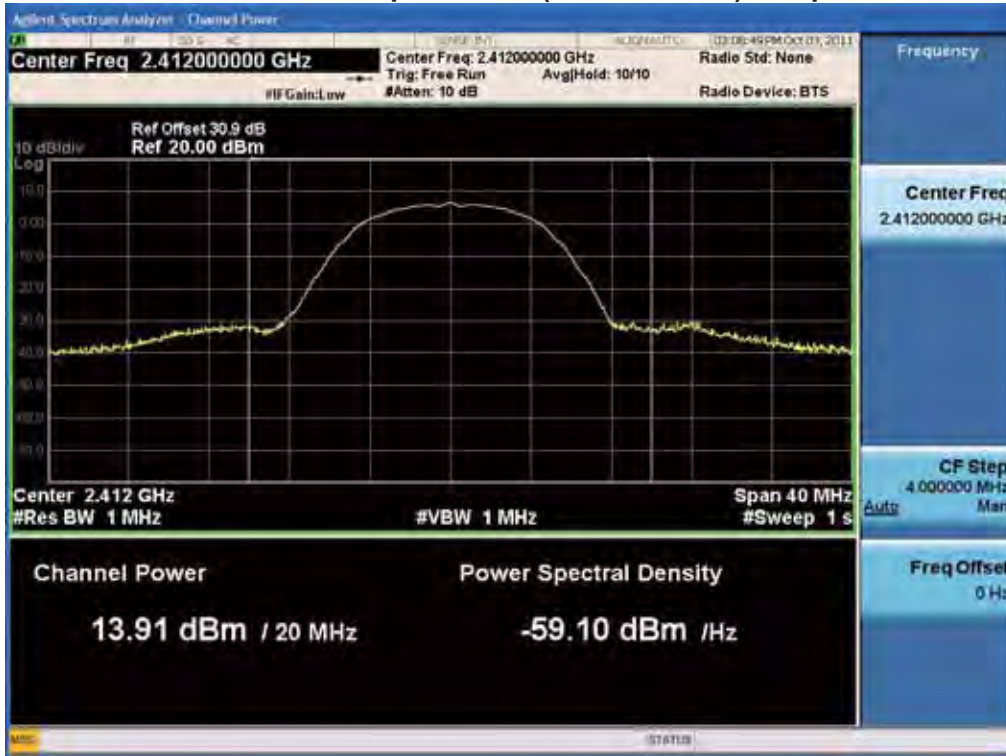


Conducted Output Power (802.11b-CH 11) 11Mbps

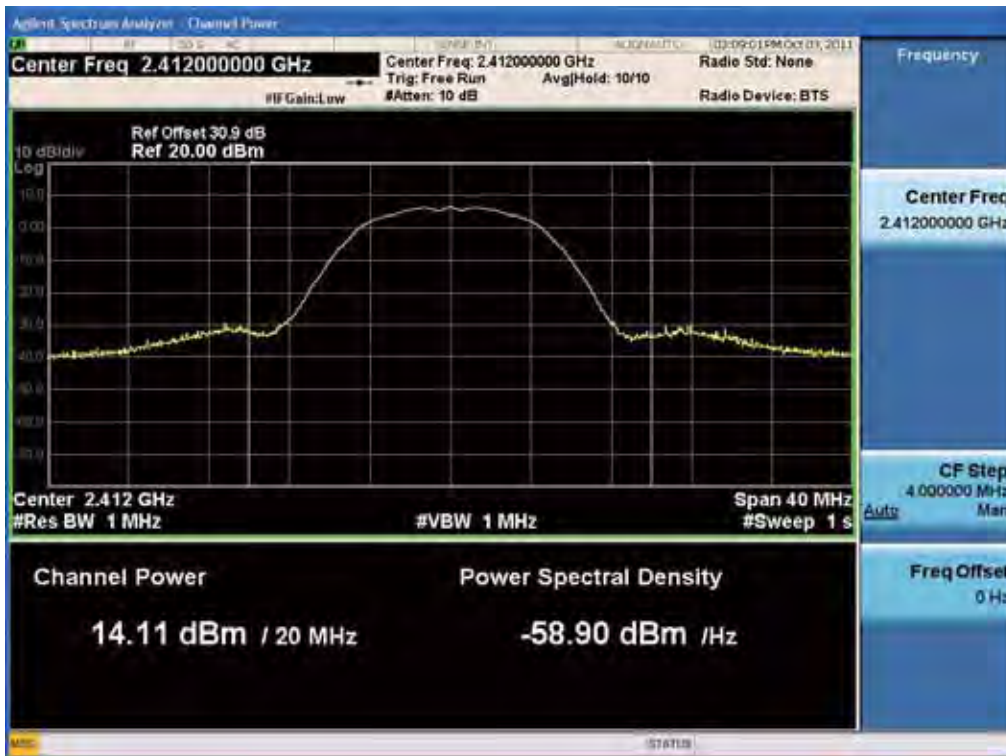


RESULT PLOTS_Ant.1

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

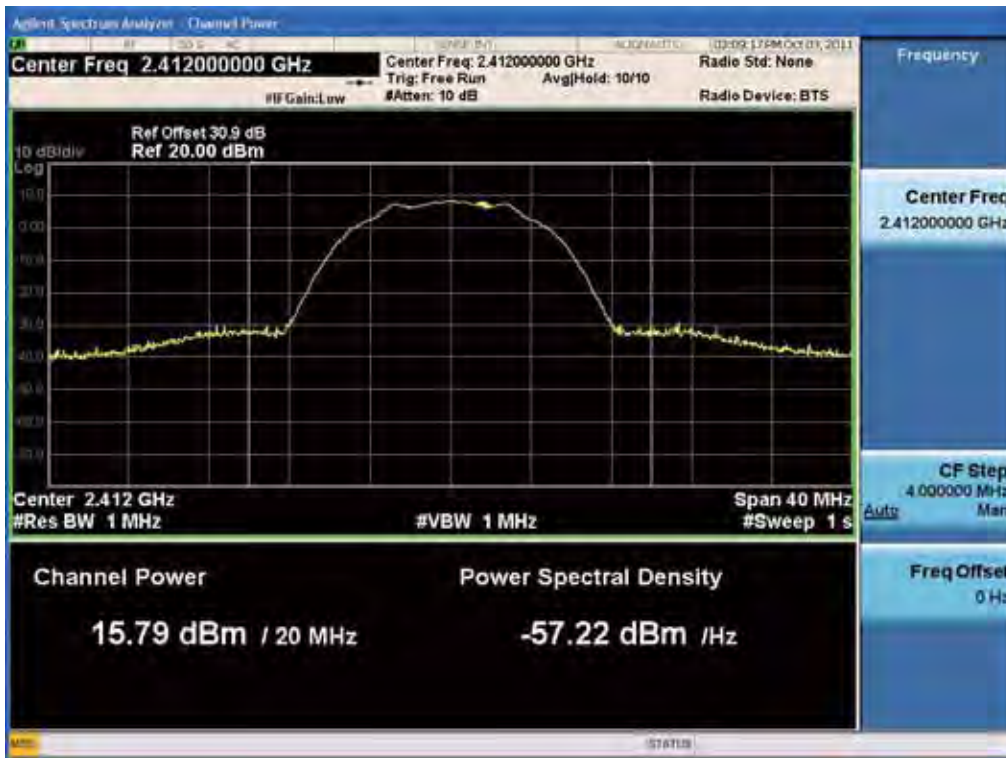


Conducted Output Power (802.11b-CH 1) 2Mbps



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

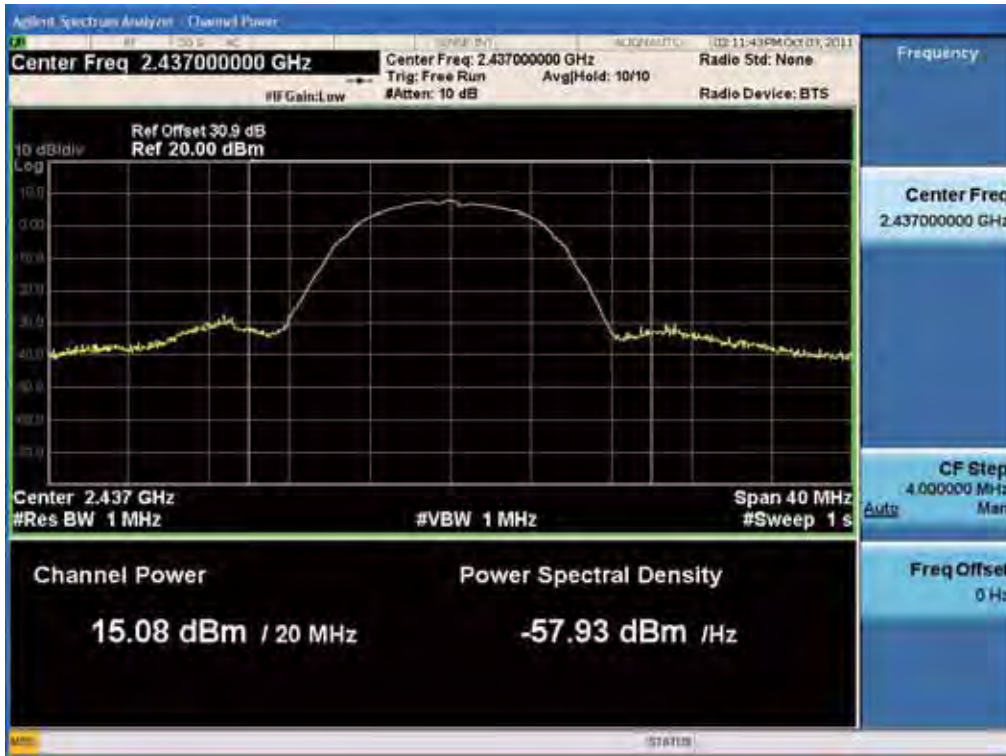


Conducted Output Power (802.11b-CH 1) 11Mbps



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

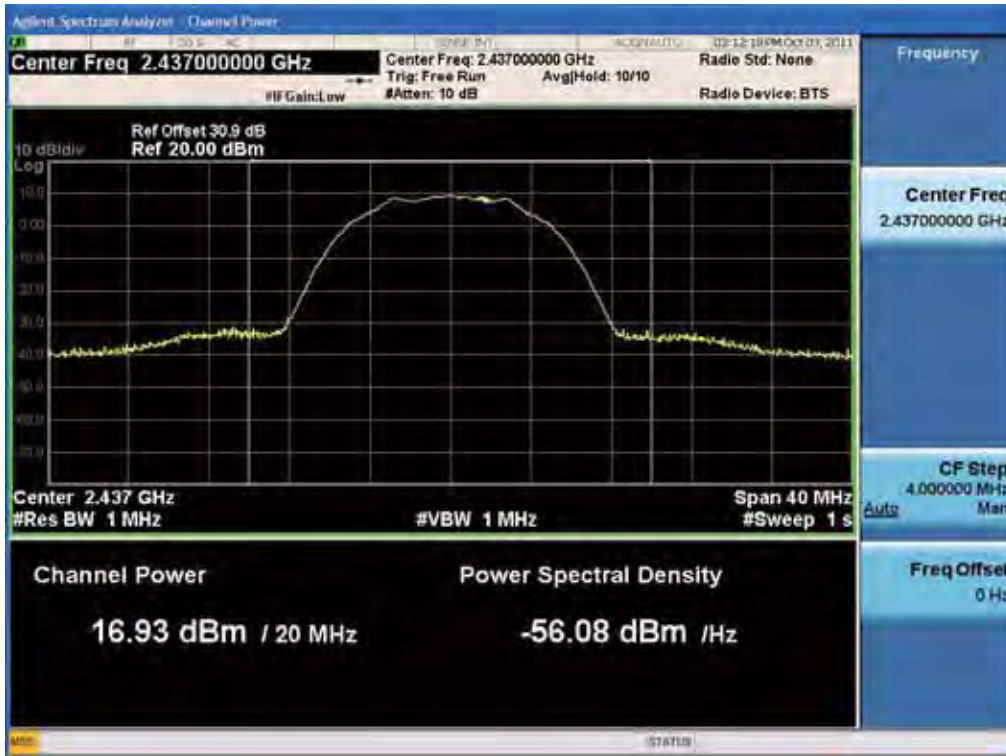


Conducted Output Power (802.11b-CH 6) 2Mbps

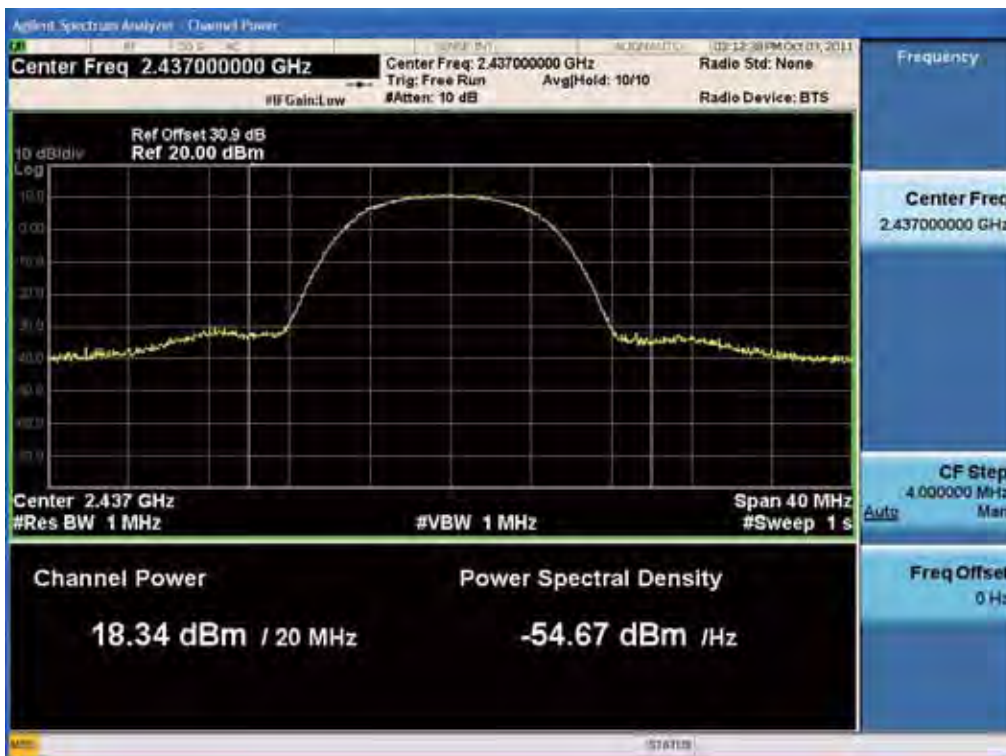


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Conducted Output Power (802.11b-CH 6) 5.5Mbps

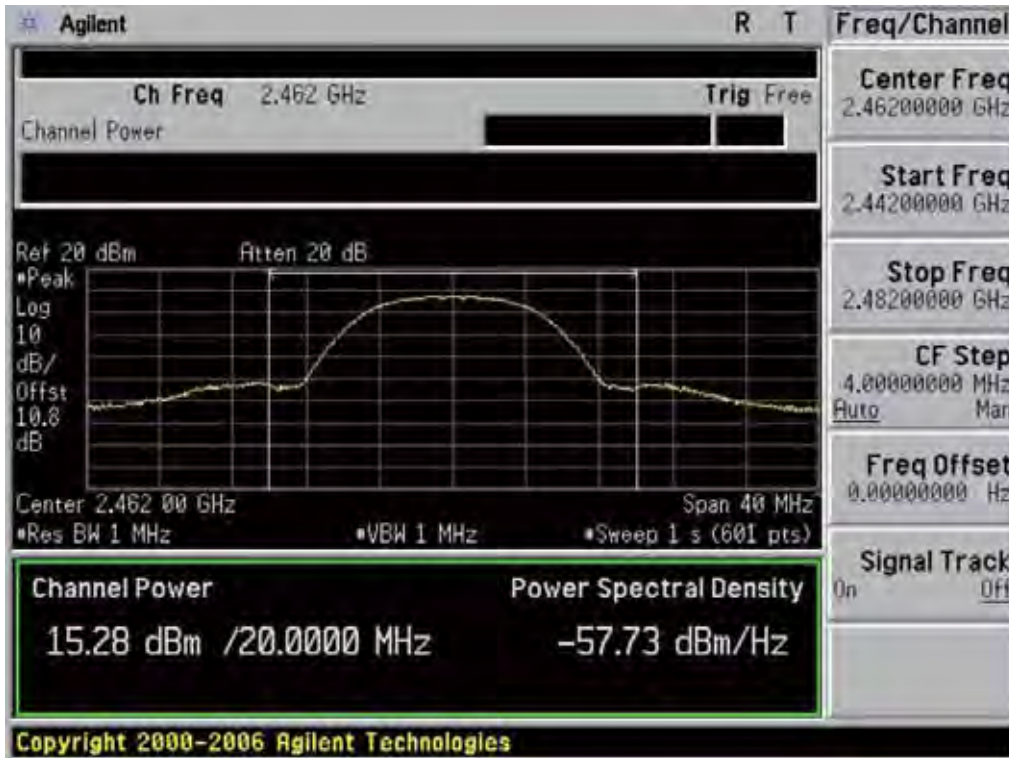


Conducted Output Power (802.11b-CH 6) 11Mbps

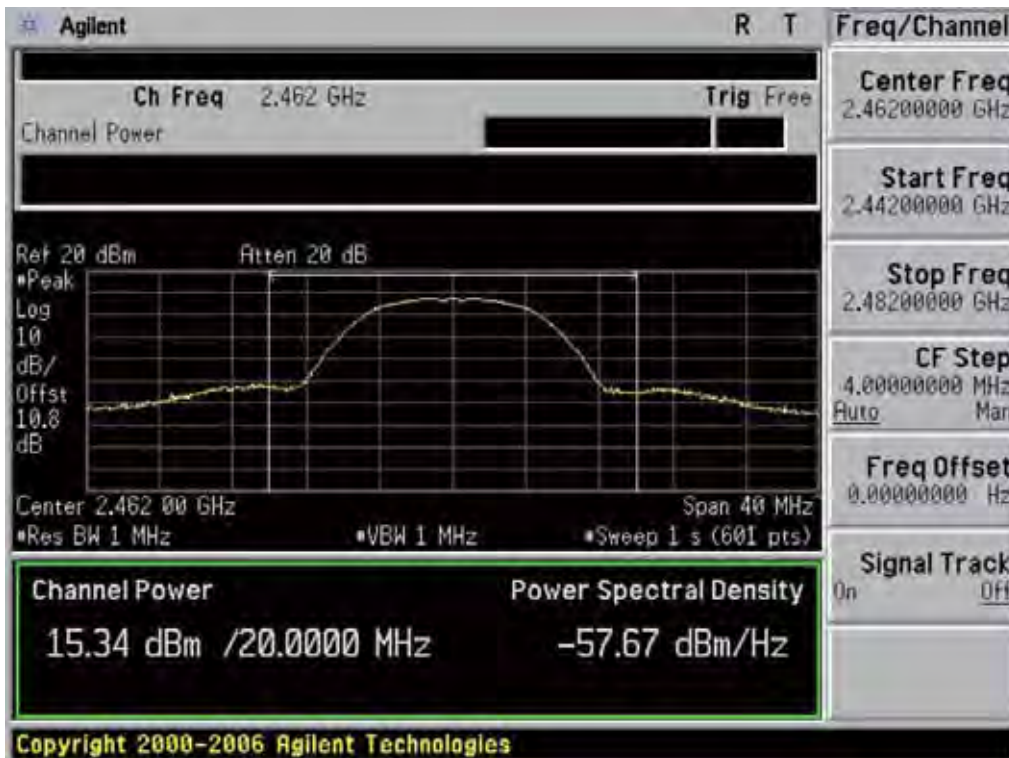


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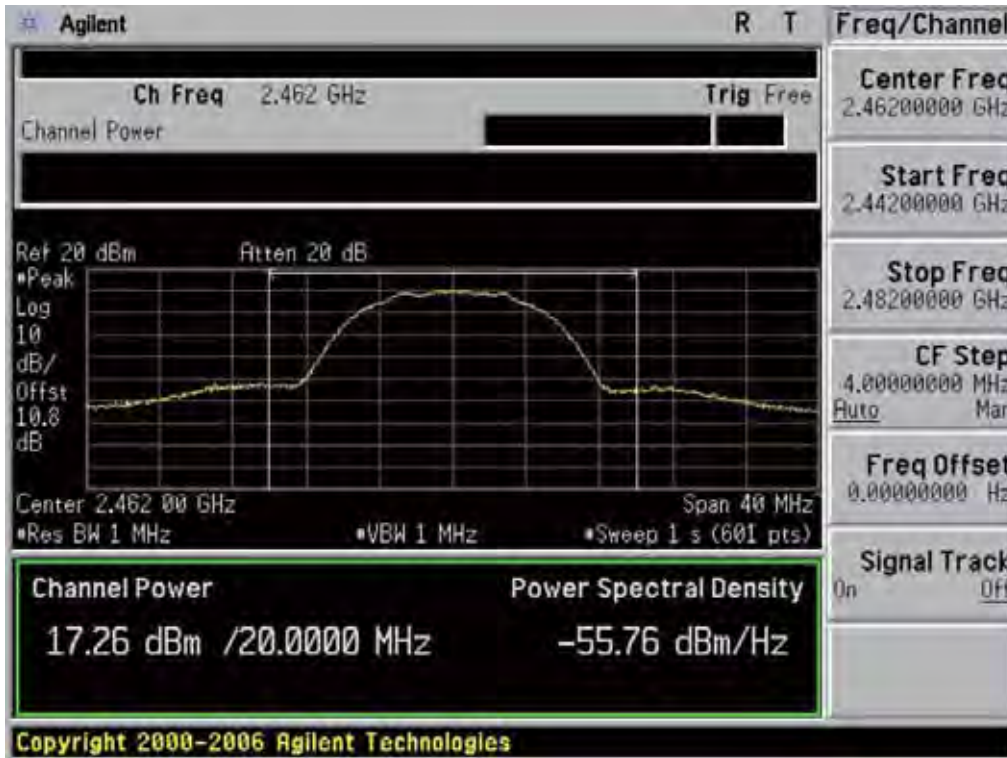
Conducted Output Power (802.11b-CH 11) 1Mbps



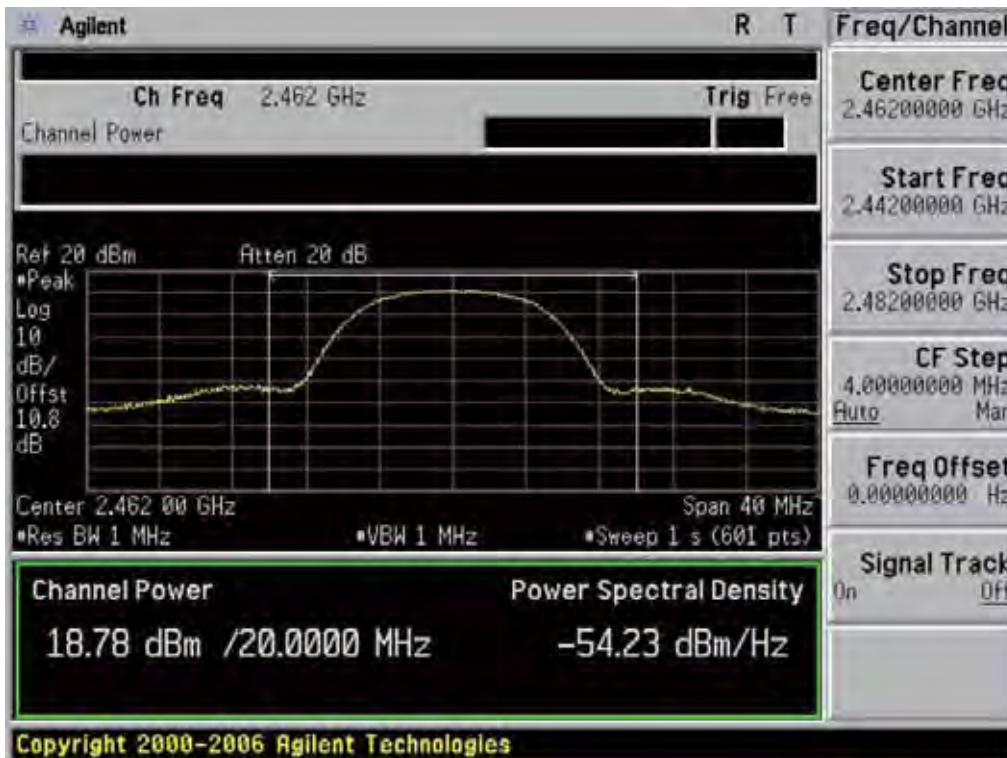
Conducted Output Power (802.11b-CH 11) 2Mbps



Conducted Output Power (802.11b-CH 11) 5.5Mbps

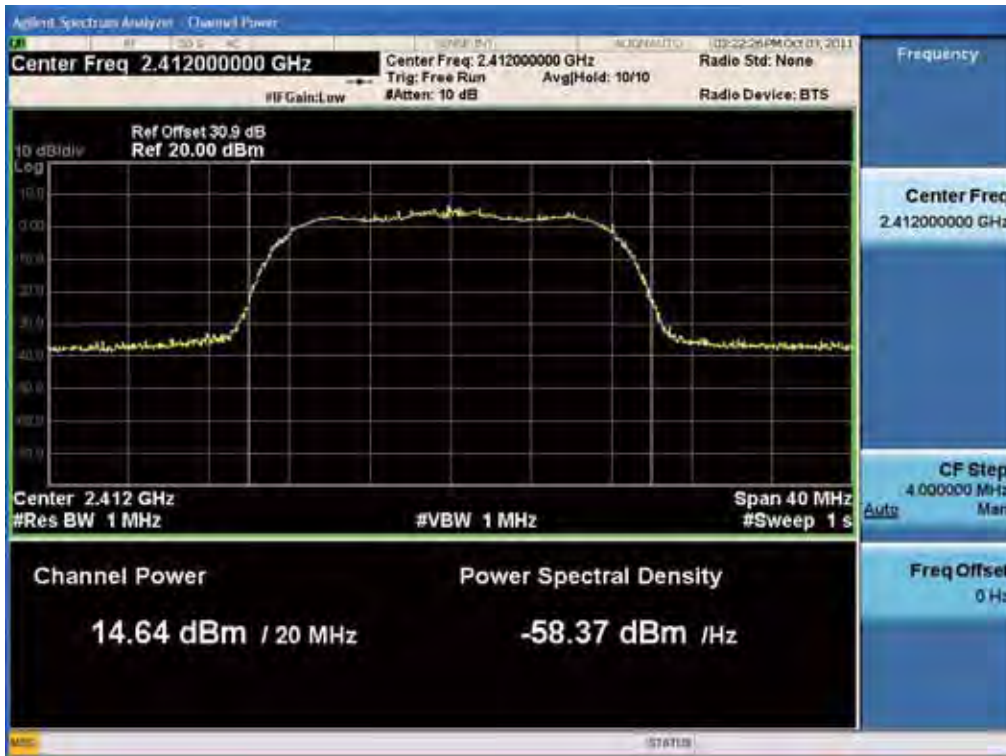


Conducted Output Power (802.11b-CH 11) 11Mbps

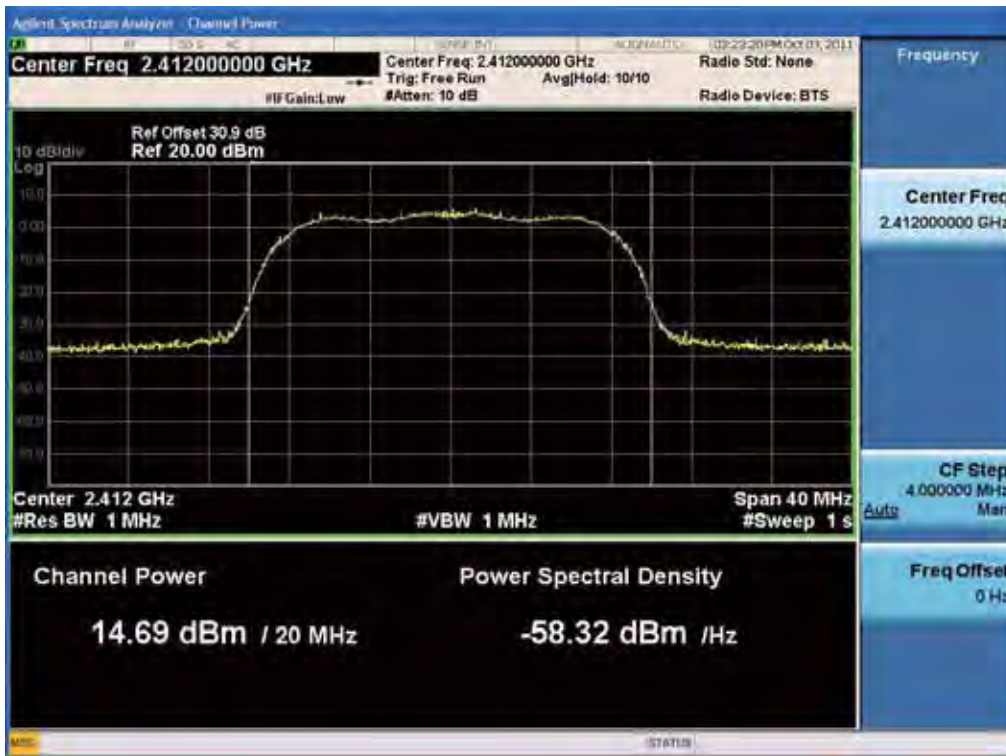


RESULT PLOTS_Ant.0

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

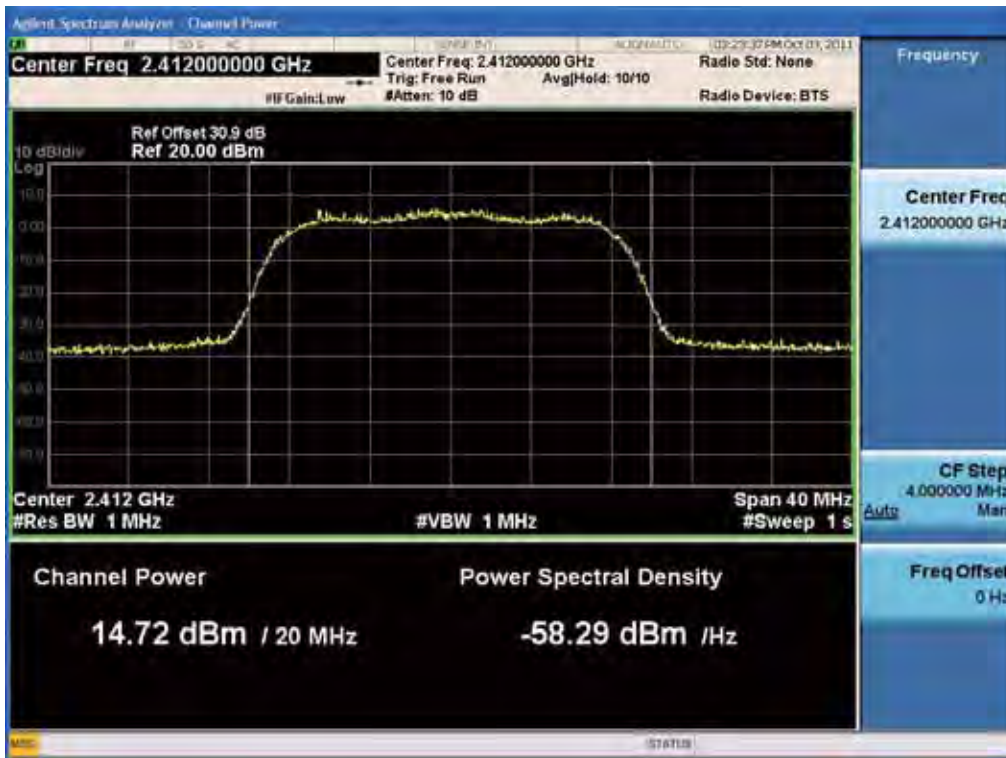


Conducted Output Power (802.11g-CH 1) 9Mbps

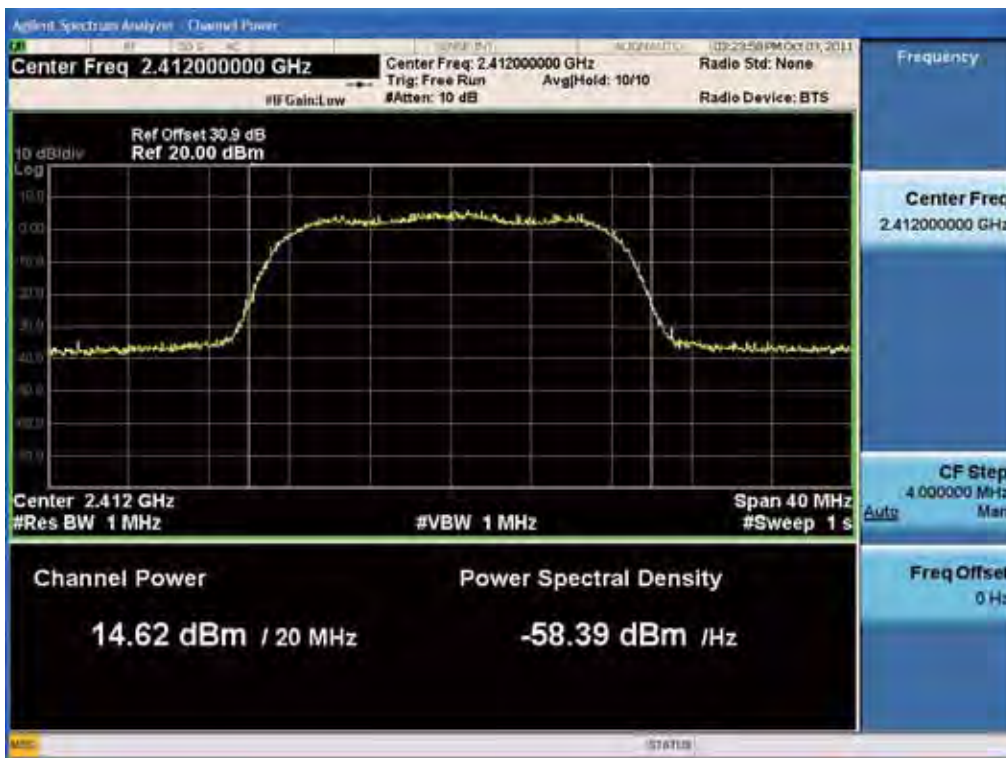


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Conducted Output Power (802.11g-CH 1) 12Mbps



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

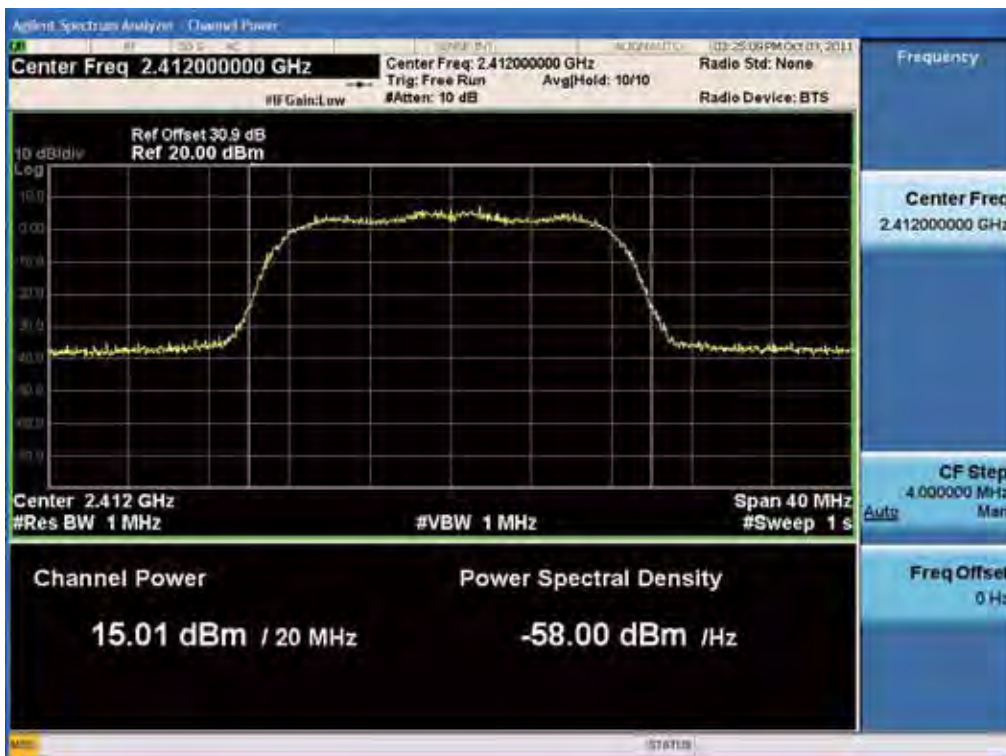


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Conducted Output Power (802.11g-CH 1) 24Mbps



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



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

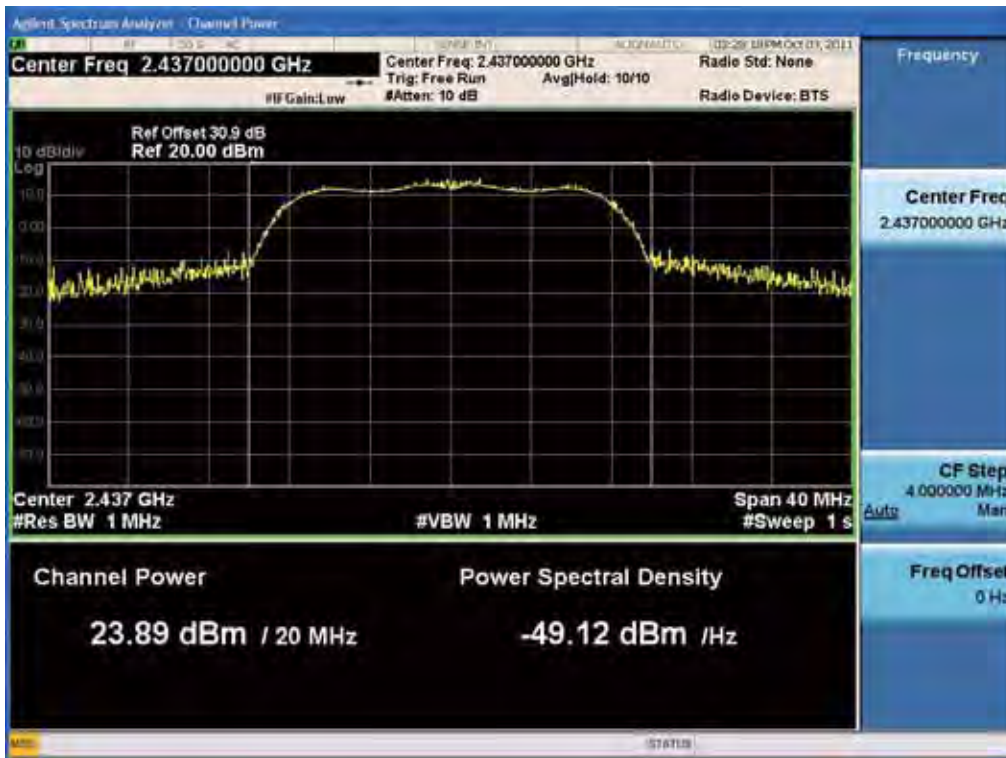


Conducted Output Power (802.11g-CH 1) 54Mbps

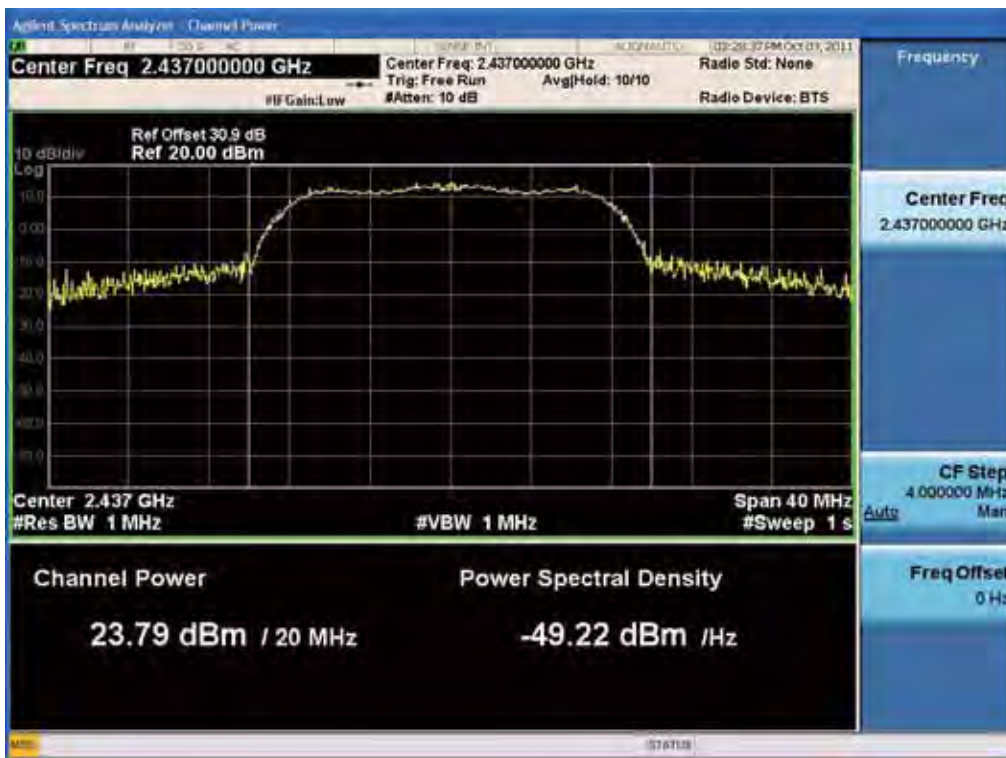


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Conducted Output Power (802.11g-CH 6) 6Mbps

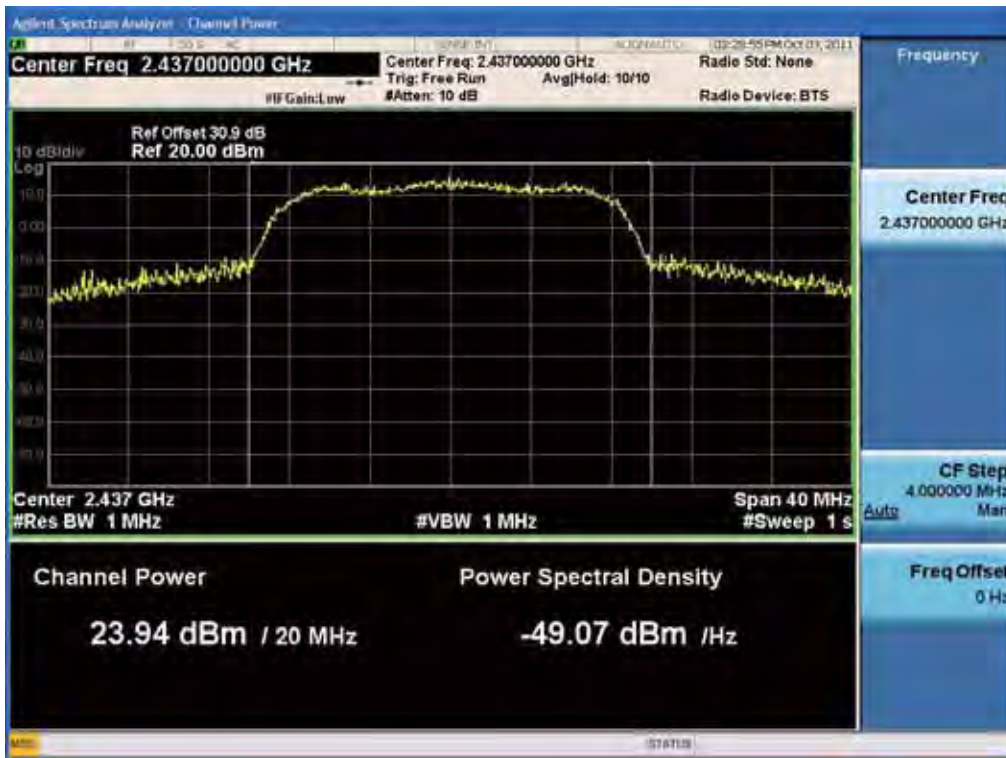


Conducted Output Power (802.11g-CH 6) 9Mbps



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|-----------------------------------|------------------------------------|------------------------|-------------------------|--|
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Conducted Output Power (802.11g-CH 6) 12Mbps

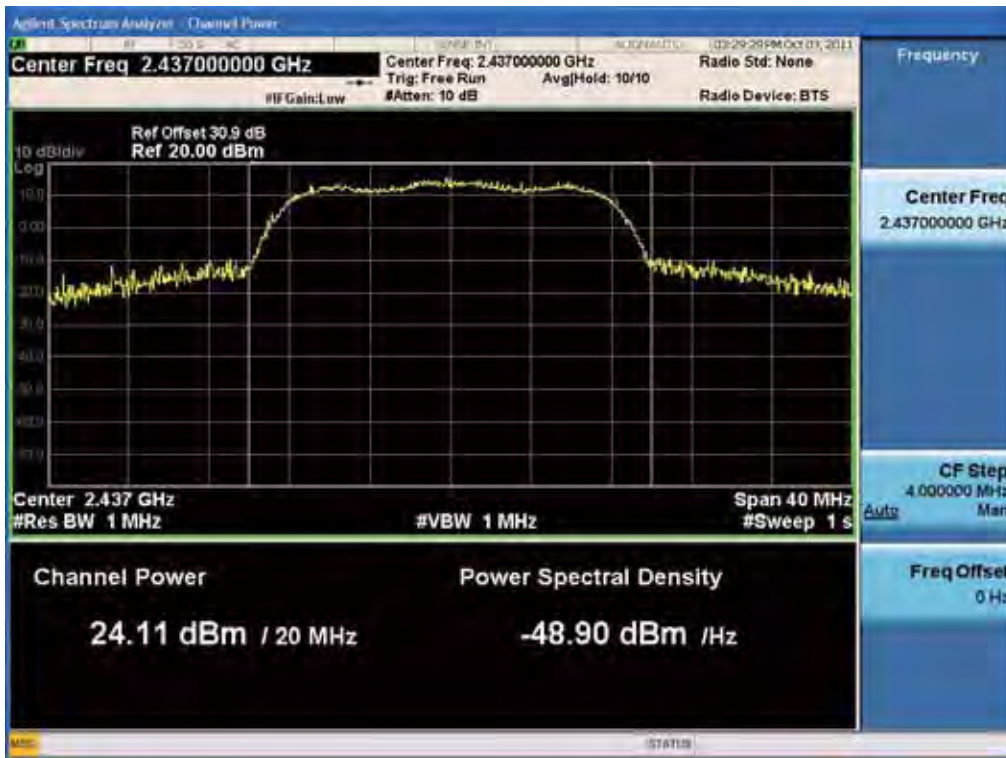


Conducted Output Power (802.11g-CH 6) 18Mbps



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|-----------------------------------|------------------------------------|------------------------|-------------------------|--|
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| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

Conducted Output Power (802.11g-CH 6) 24Mbps



Conducted Output Power (802.11g-CH 6) 36Mbps



| | | | | |
|-----------------------------------|------------------------------------|------------------------|-------------------------|--|
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Conducted Output Power (802.11g-CH 6) 48Mbps

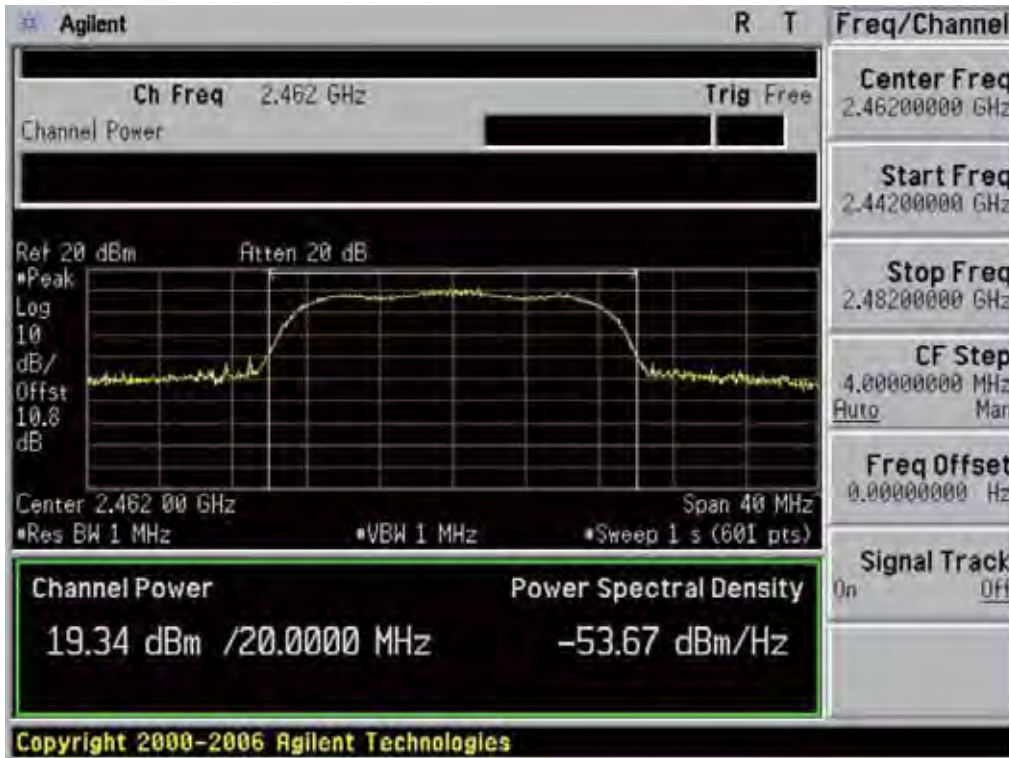


Conducted Output Power (802.11g-CH 6) 54Mbps

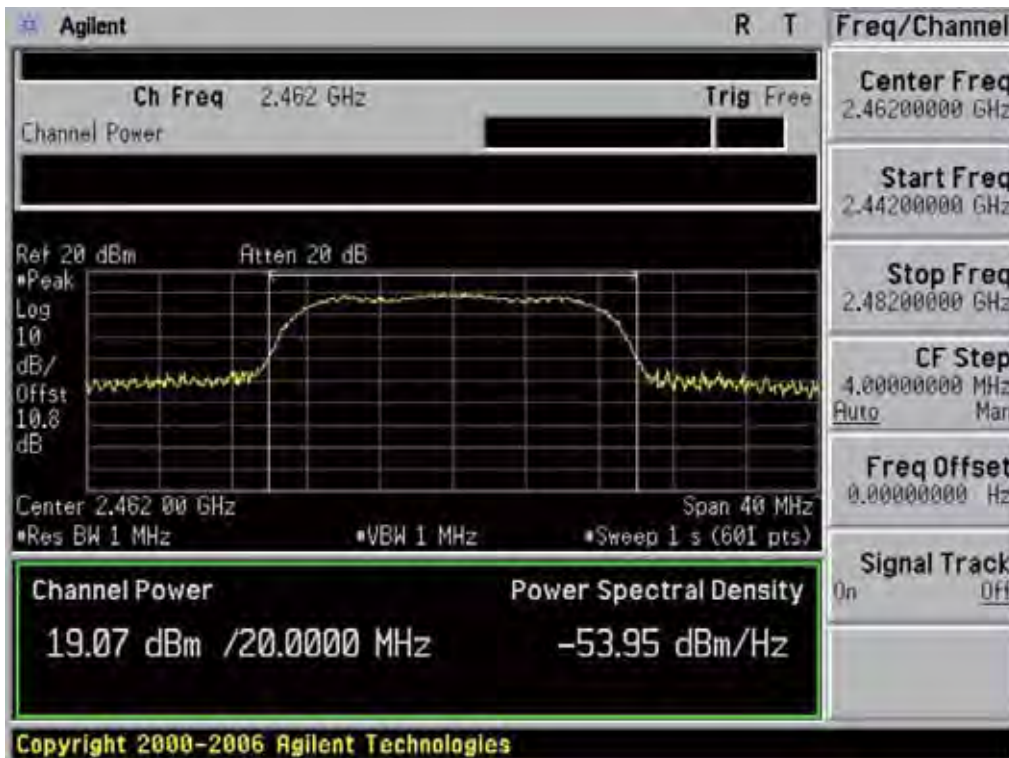


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

Conducted Output Power (802.11g-CH 11) 6Mbps

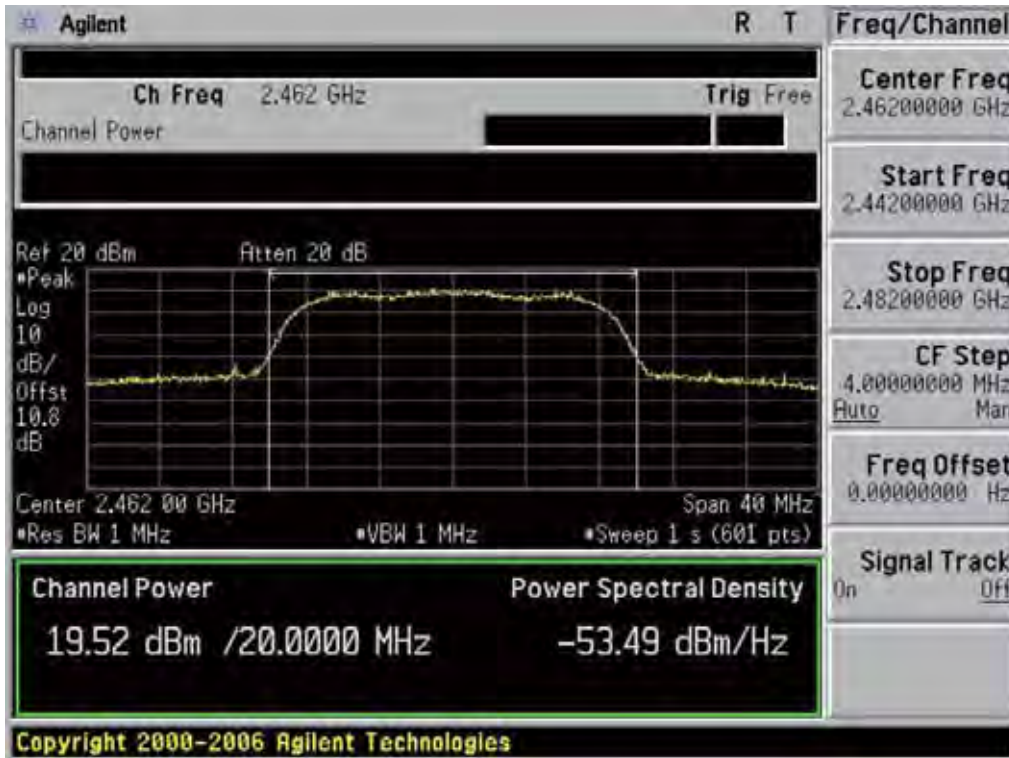


Conducted Output Power (802.11g-CH 11) 9Mbps

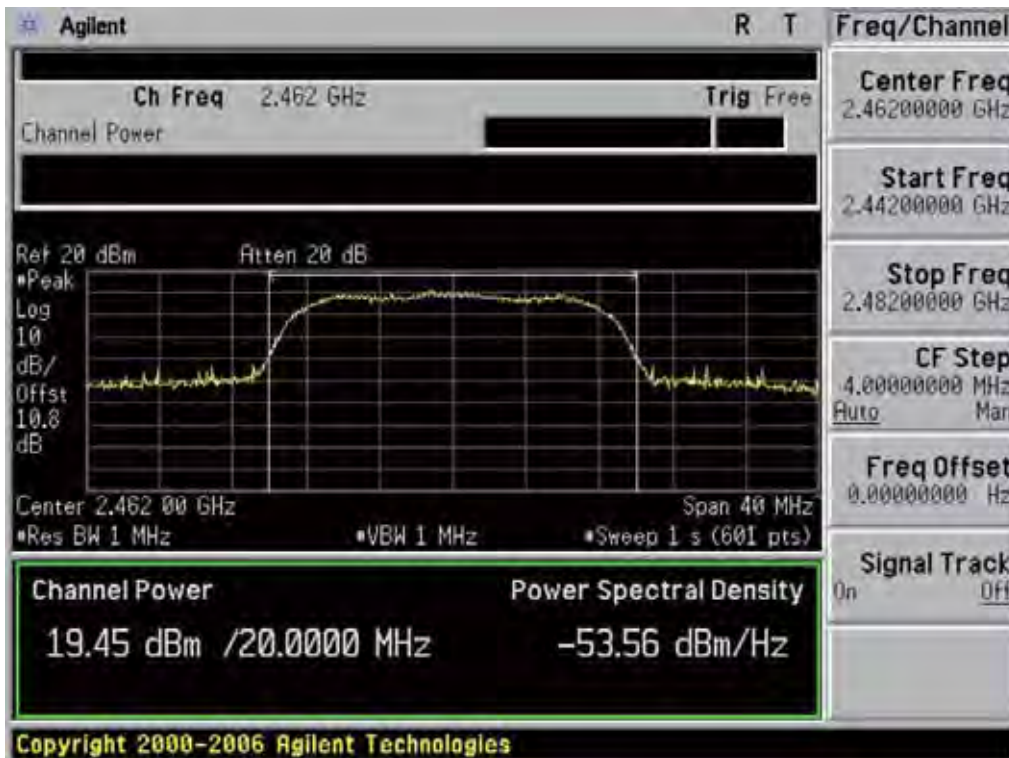


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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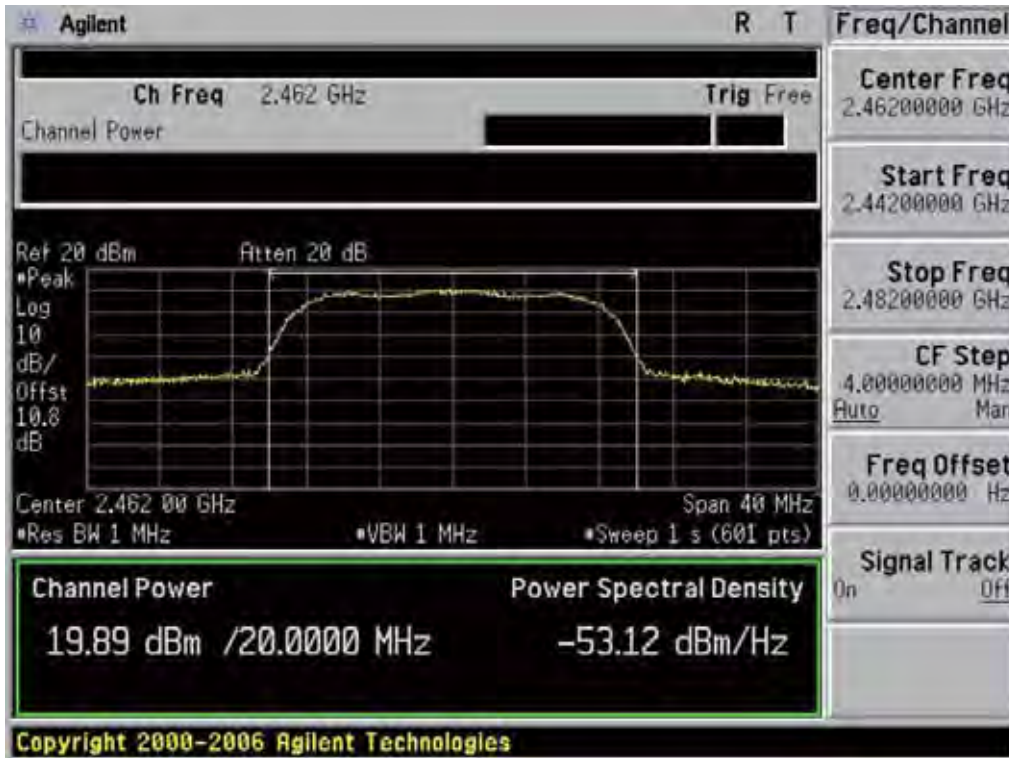
Conducted Output Power (802.11g-CH 11) 12Mbps



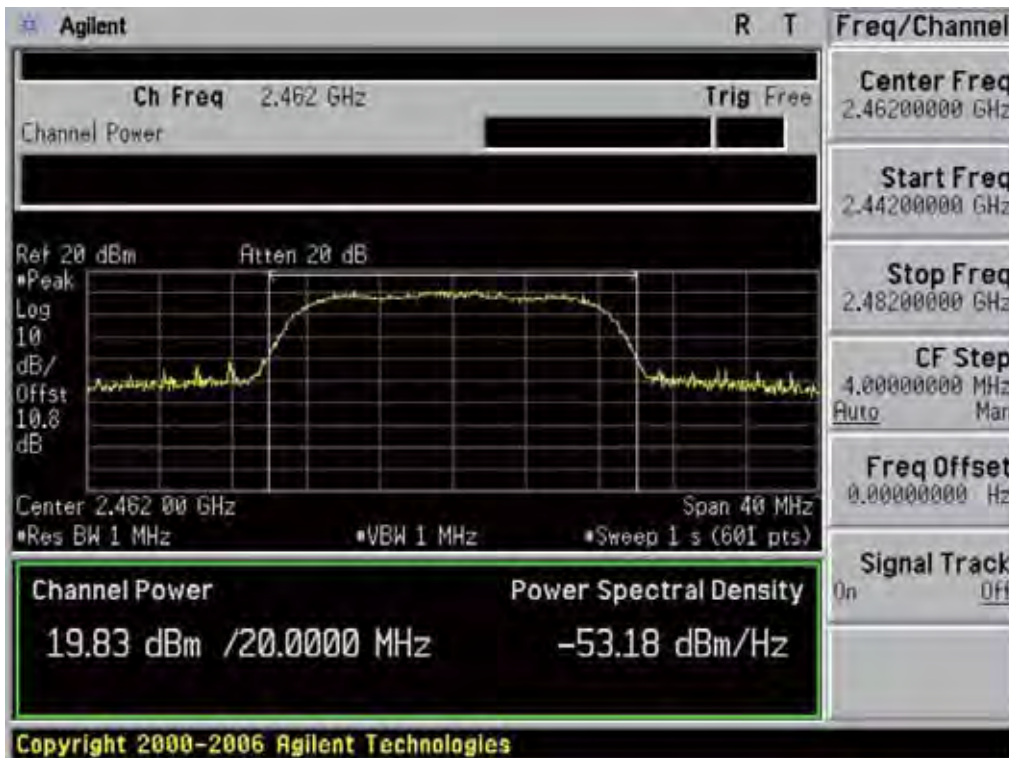
Conducted Output Power (802.11g-CH 11) 18Mbps



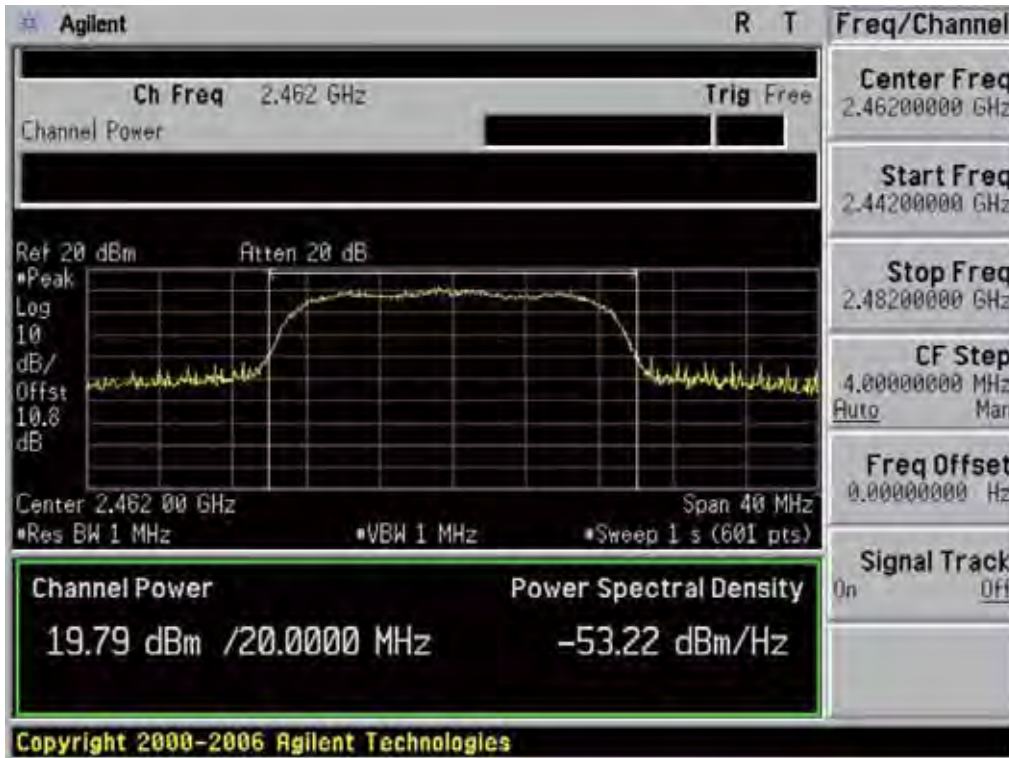
Conducted Output Power (802.11g-CH 11) 24Mbps



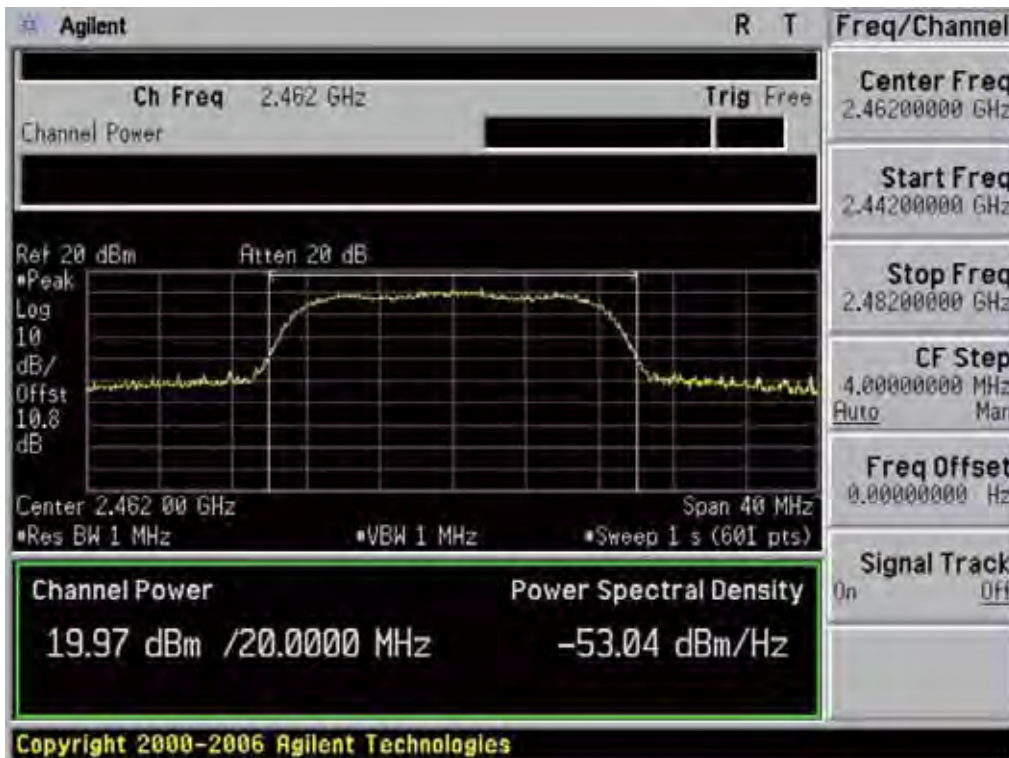
Conducted Output Power (802.11g-CH 11) 36Mbps



Conducted Output Power (802.11g-CH 11) 48Mbps



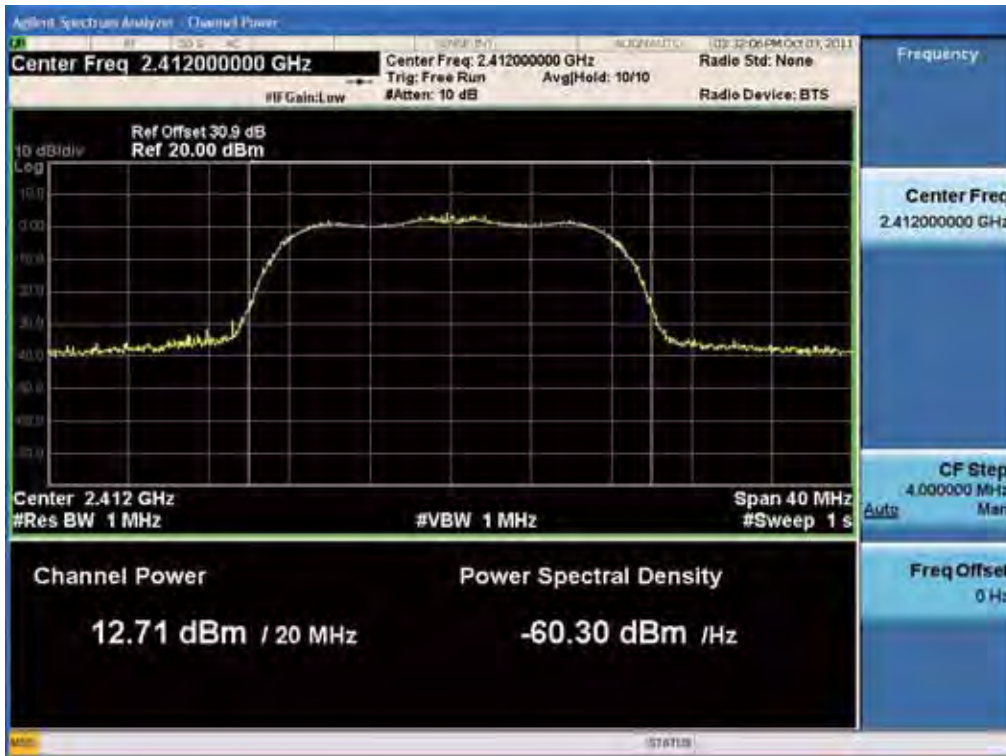
Conducted Output Power (802.11g-CH 11) 54Mbps



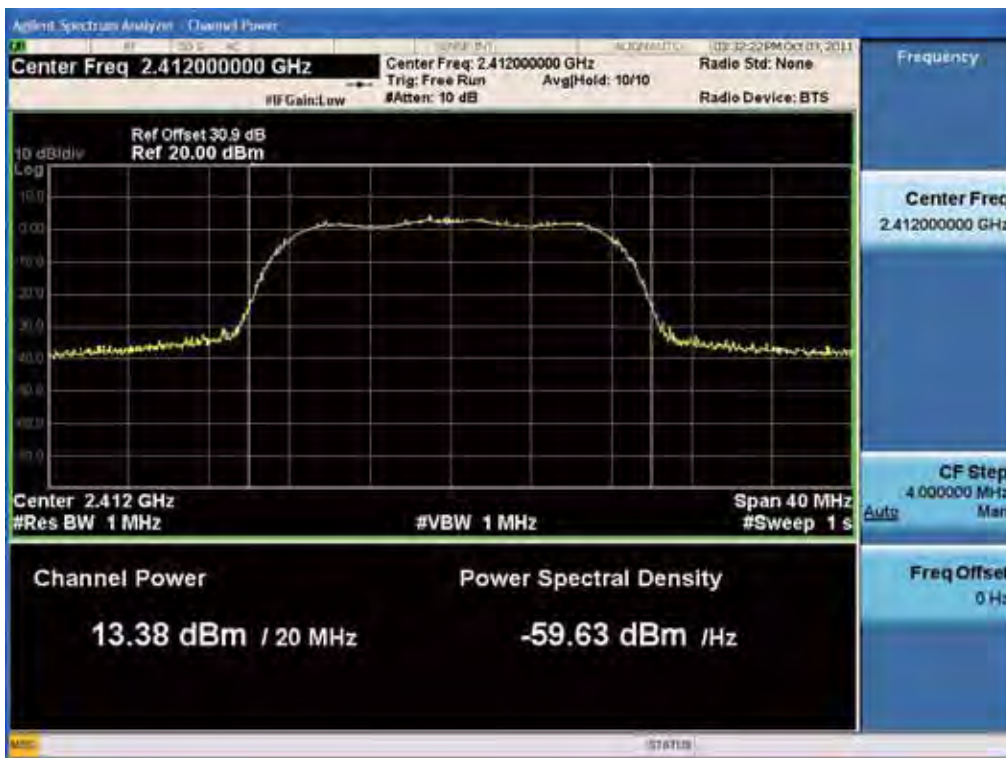
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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

RESULT PLOTS_Ant.1

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



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

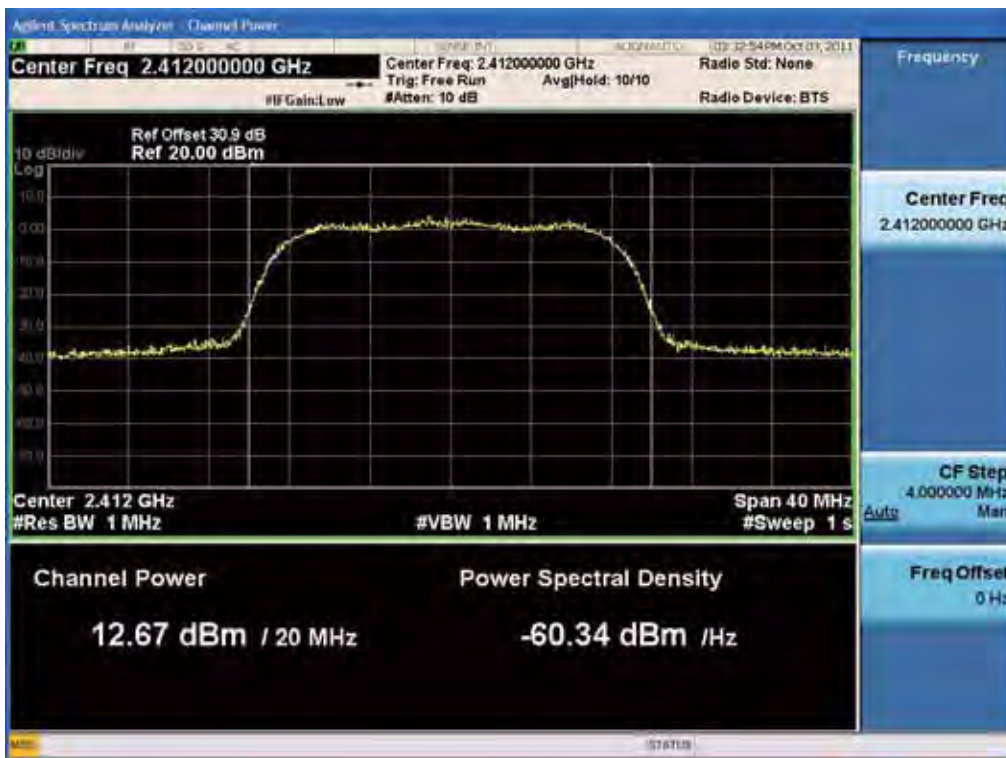


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

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

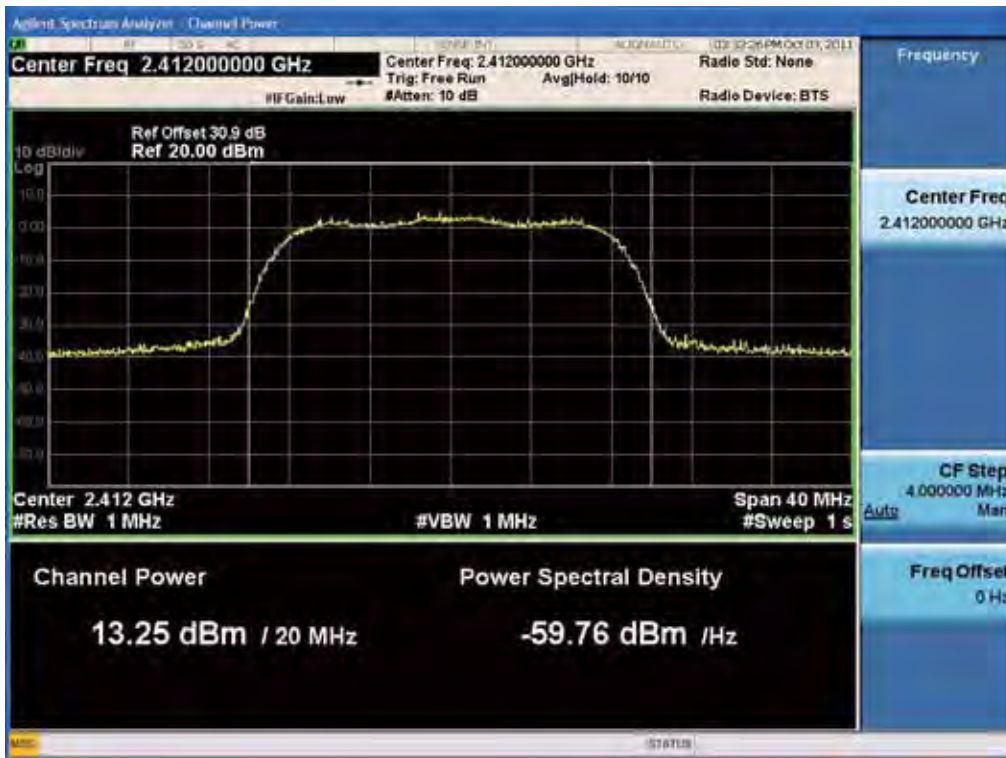


Conducted Output Power (802.11g-CH 1) 18Mbps

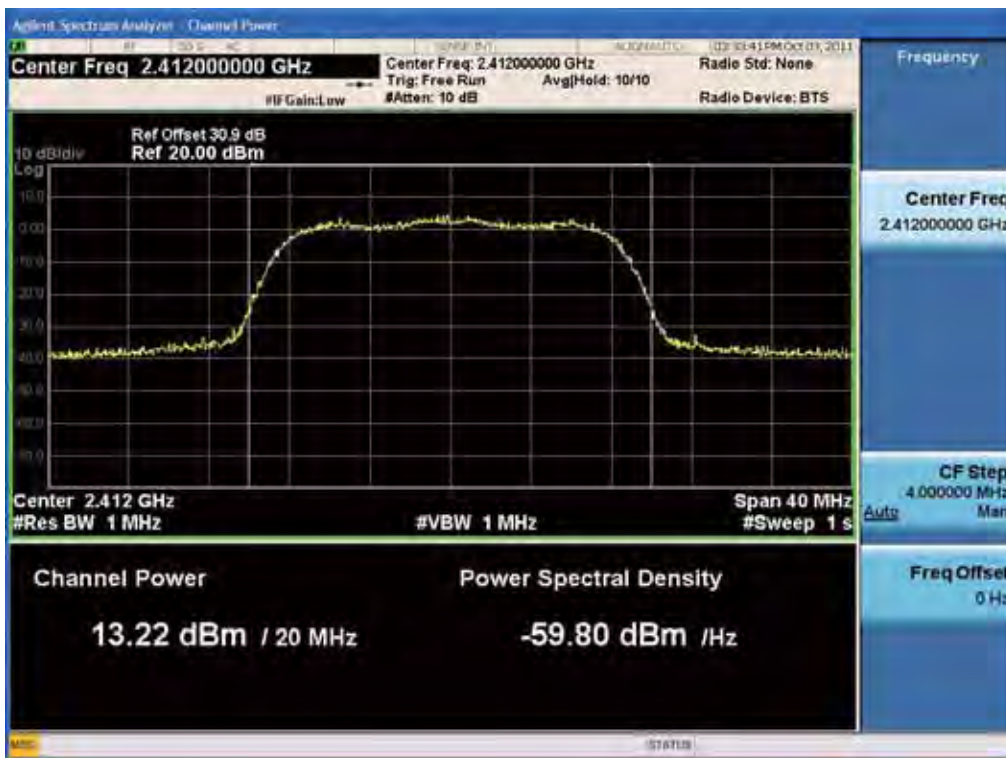


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

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

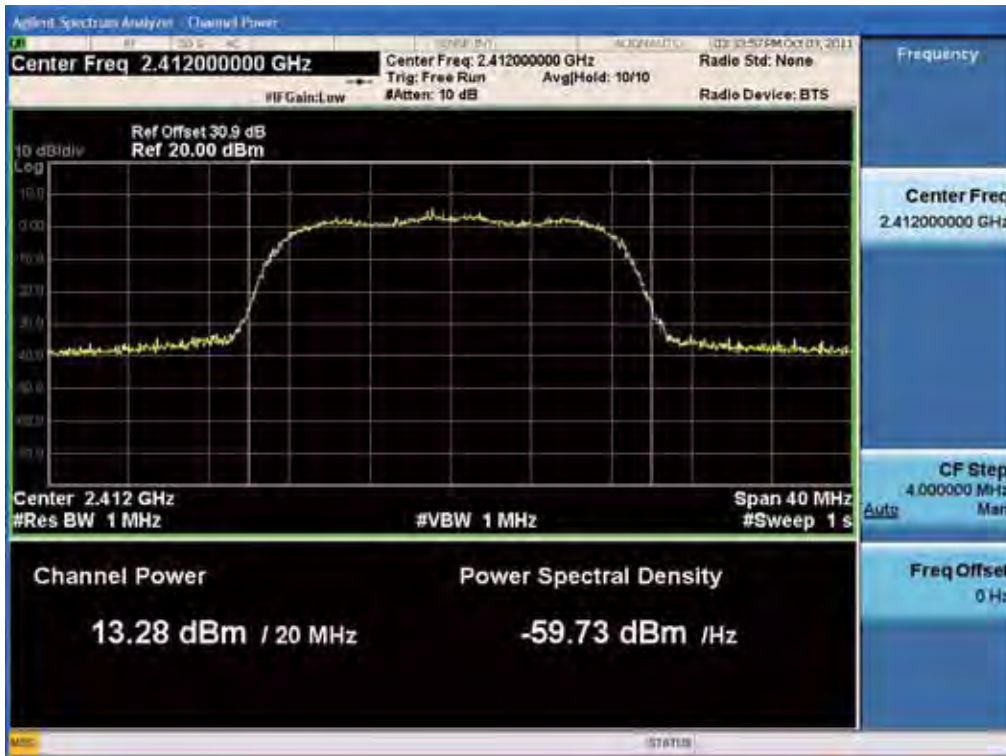


Conducted Output Power (802.11g-CH 1) 36Mbps

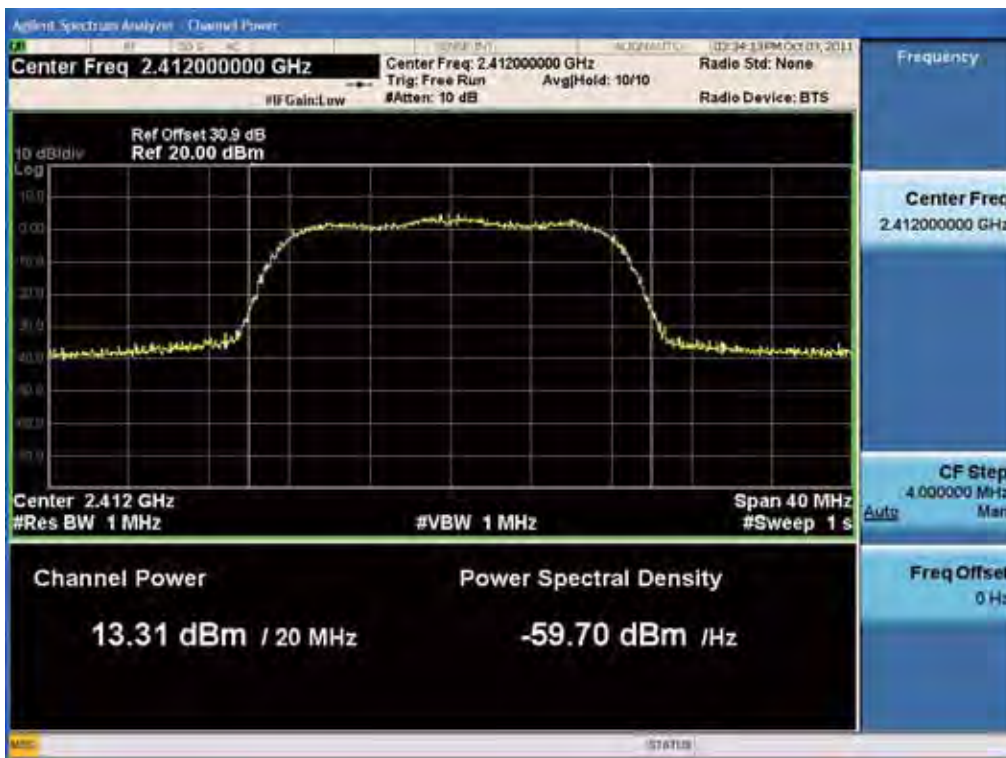


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| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

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

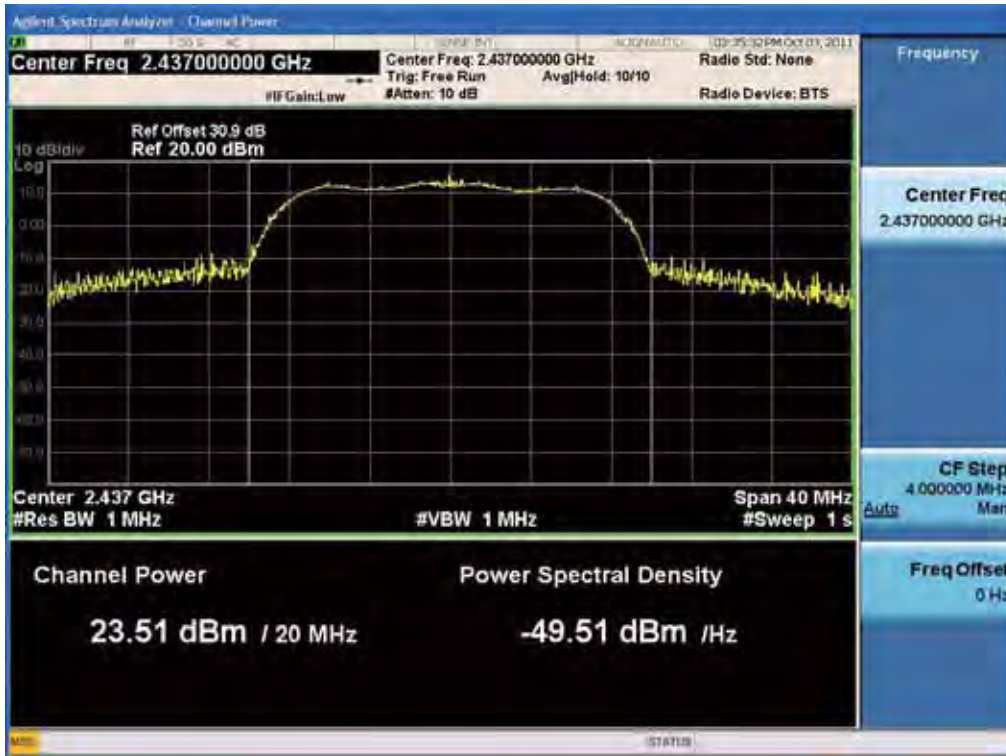


Conducted Output Power (802.11g-CH 1) 54Mbps



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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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Conducted Output Power (802.11g-CH 6) 6Mbps



Conducted Output Power (802.11g-CH 6) 9Mbps



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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

Conducted Output Power (802.11g-CH 6) 12Mbps

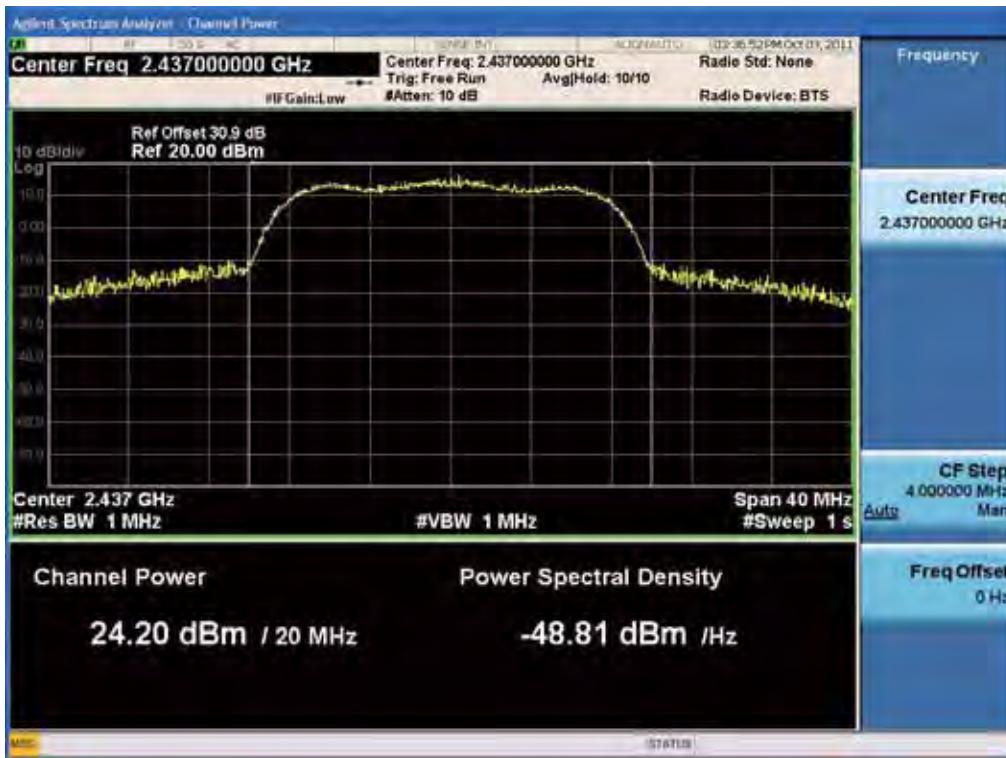


Conducted Output Power (802.11g-CH 6) 18Mbps



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Conducted Output Power (802.11g-CH 6) 24Mbps



Conducted Output Power (802.11g-CH 6) 36Mbps



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Conducted Output Power (802.11g-CH 6) 48Mbps

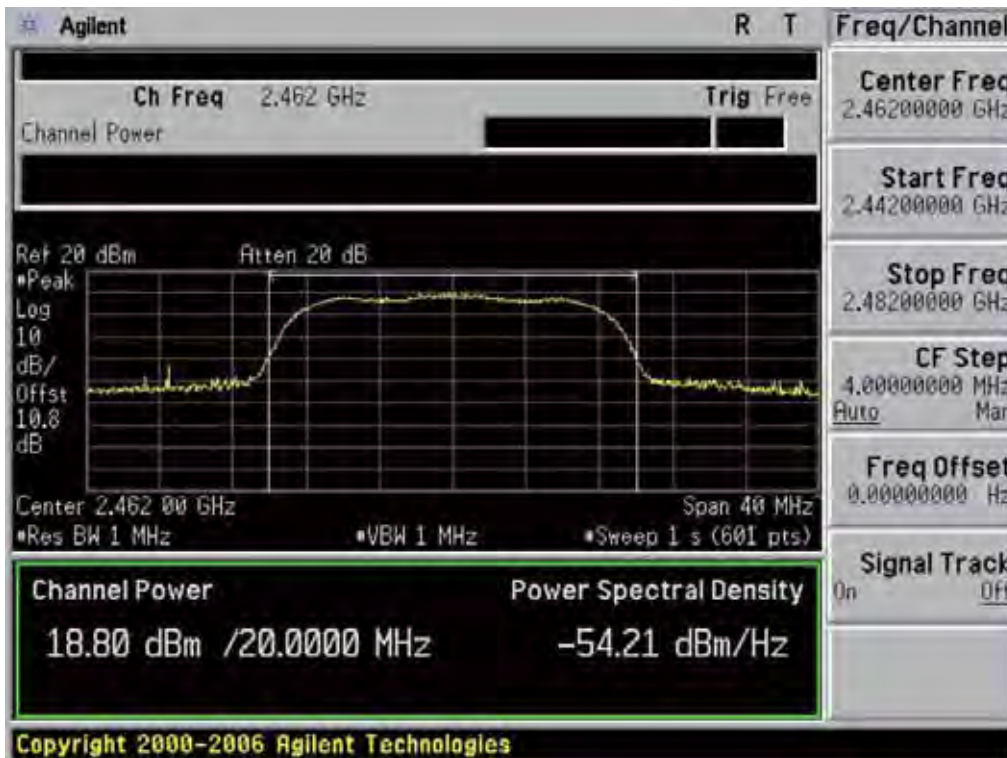


Conducted Output Power (802.11g-CH 6) 54Mbps

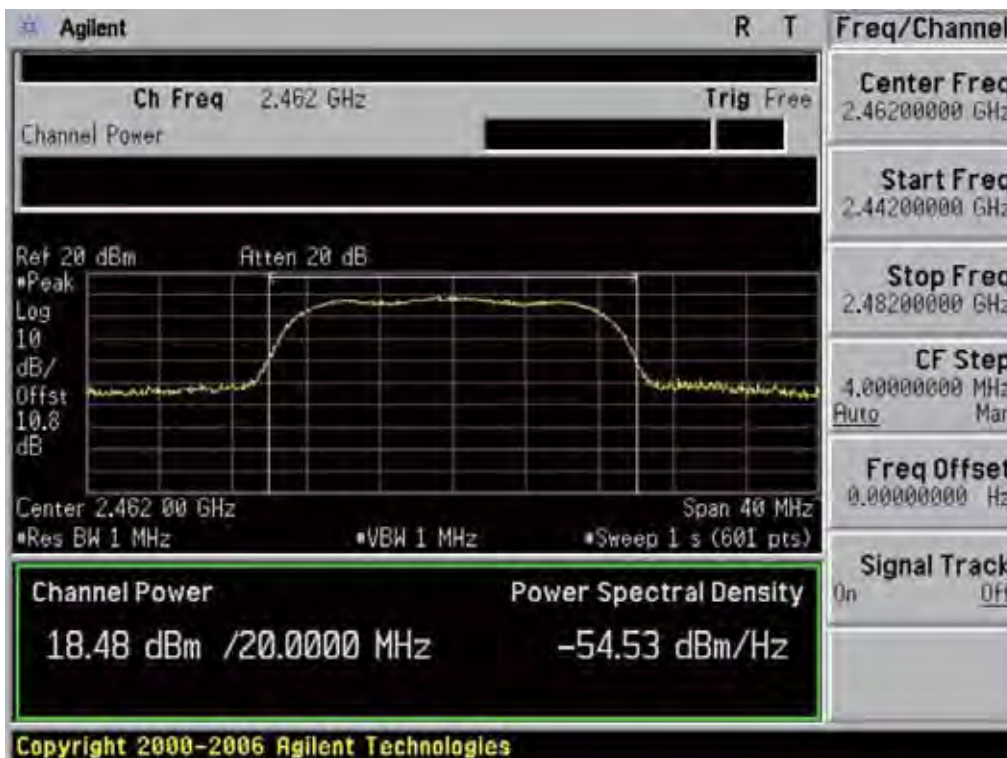


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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Conducted Output Power (802.11g-CH 11) 6Mbps

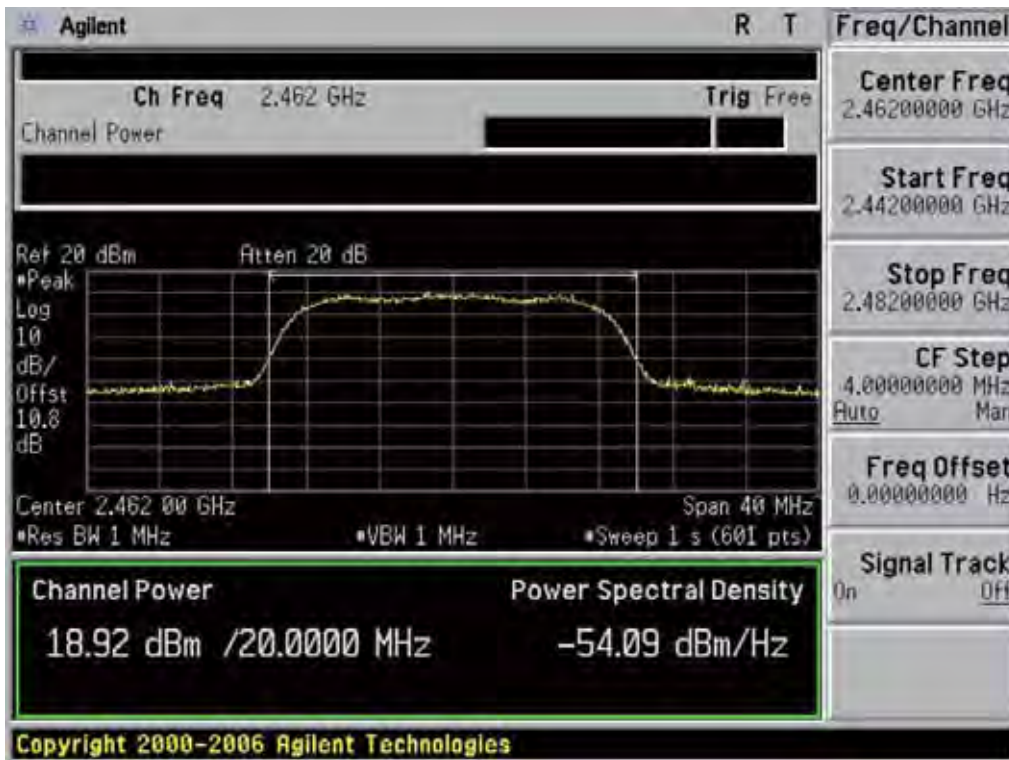


Conducted Output Power (802.11g-CH 11) 9Mbps

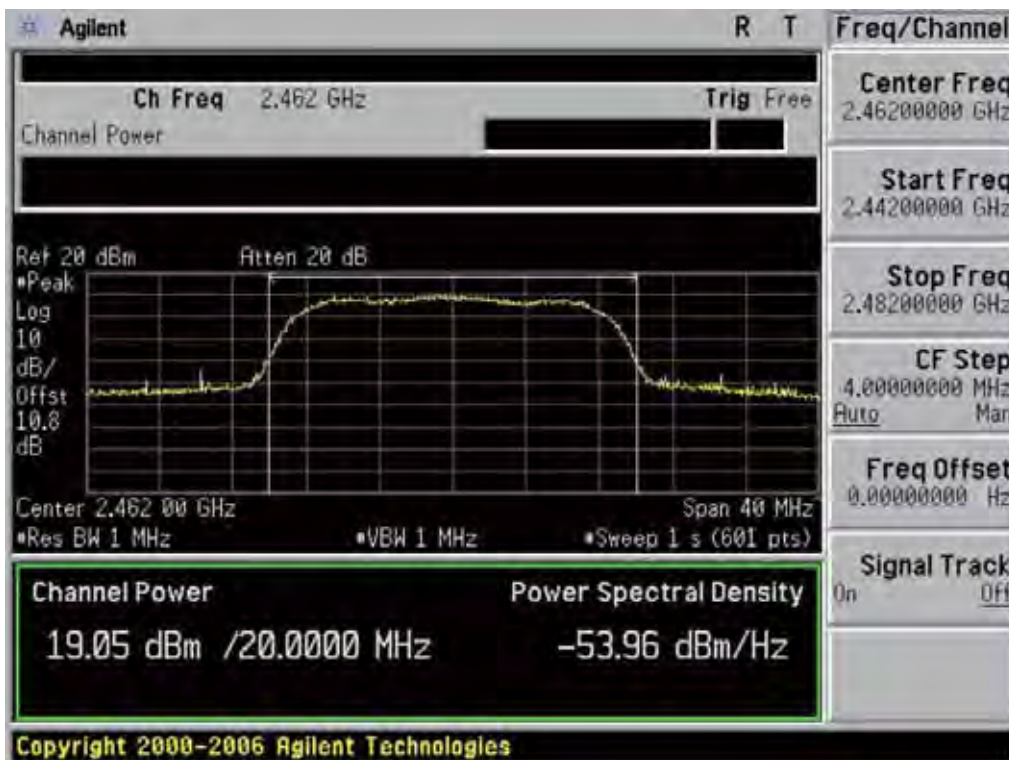


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Conducted Output Power (802.11g-CH 11) 12Mbps

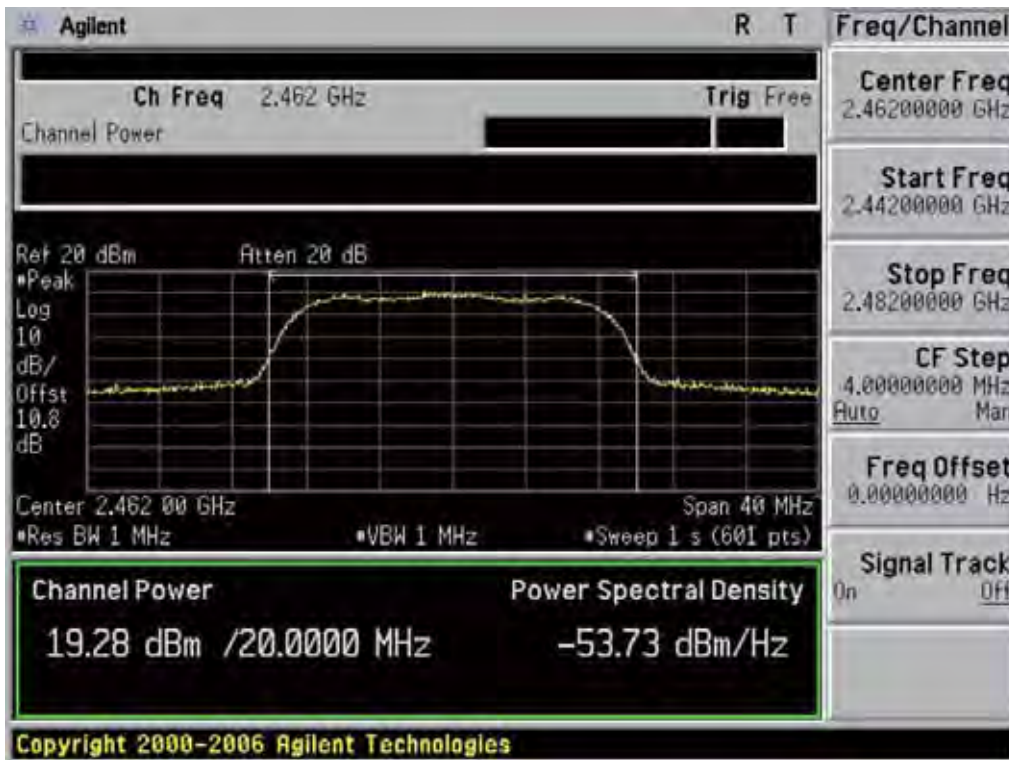


Conducted Output Power (802.11g-CH 11) 18Mbps

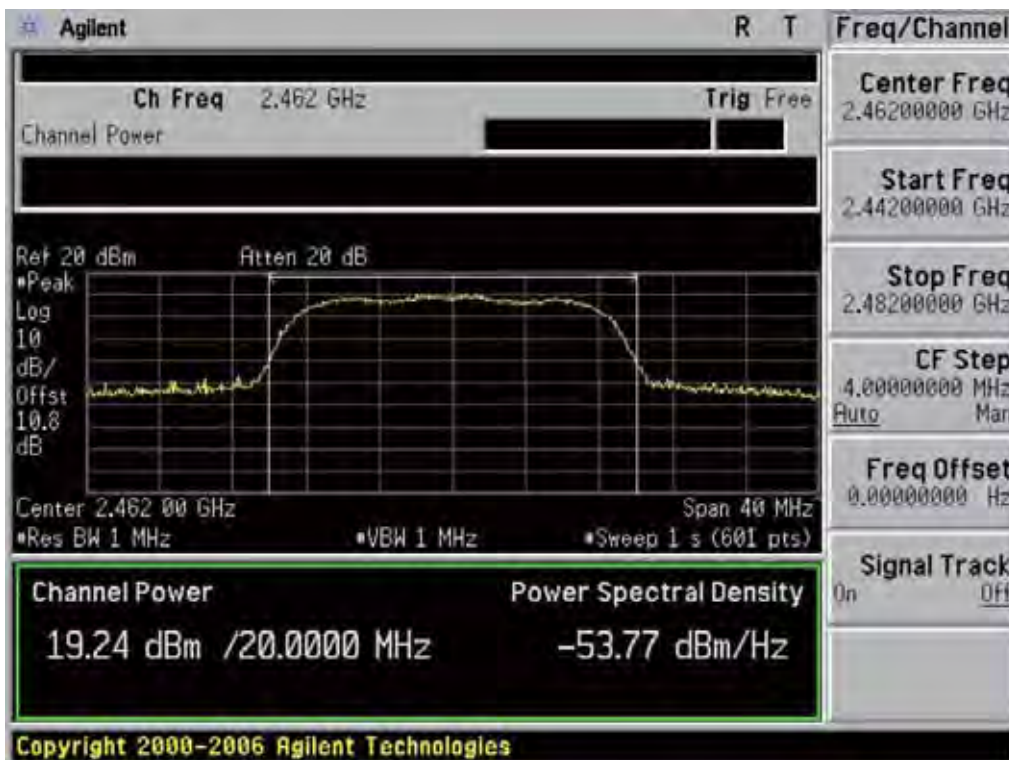


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Conducted Output Power (802.11g-CH 11) 24Mbps

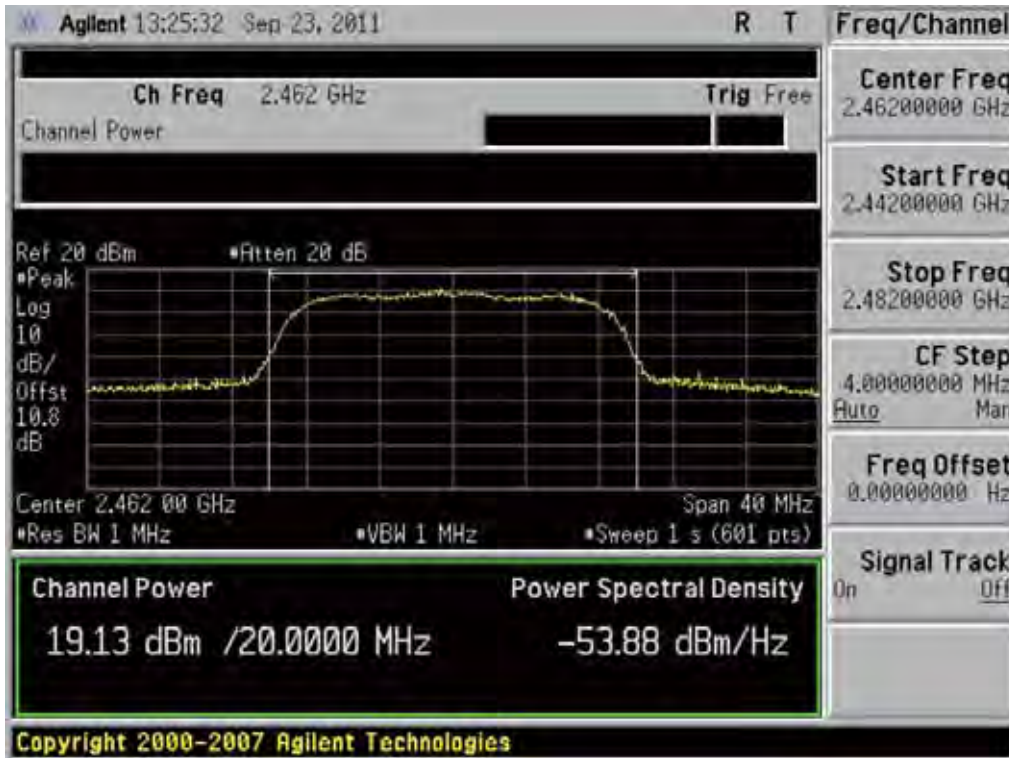


Conducted Output Power (802.11g-CH 11) 36Mbps

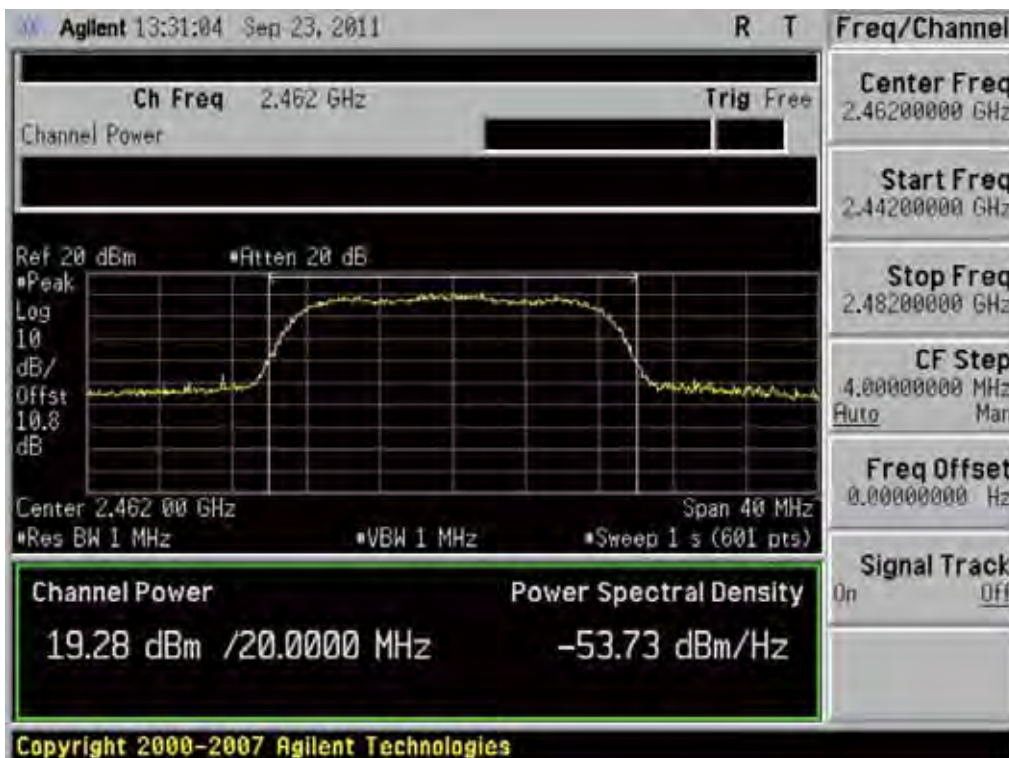


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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Conducted Output Power (802.11g-CH 11) 48Mbps



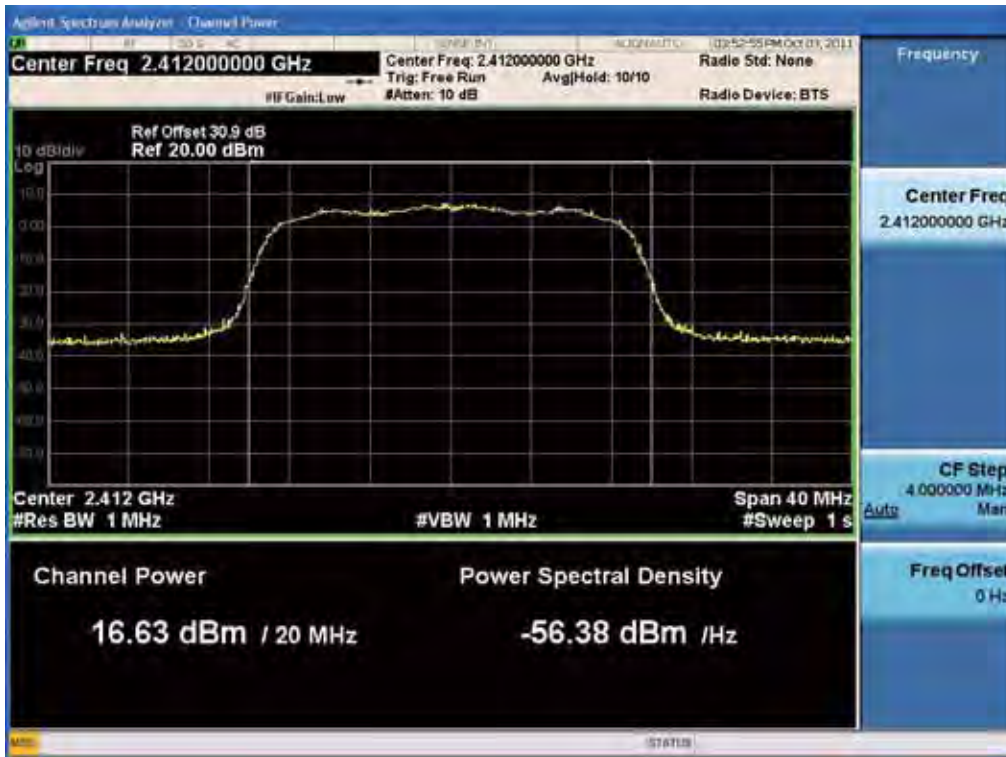
Conducted Output Power (802.11g-CH 11) 54Mbps



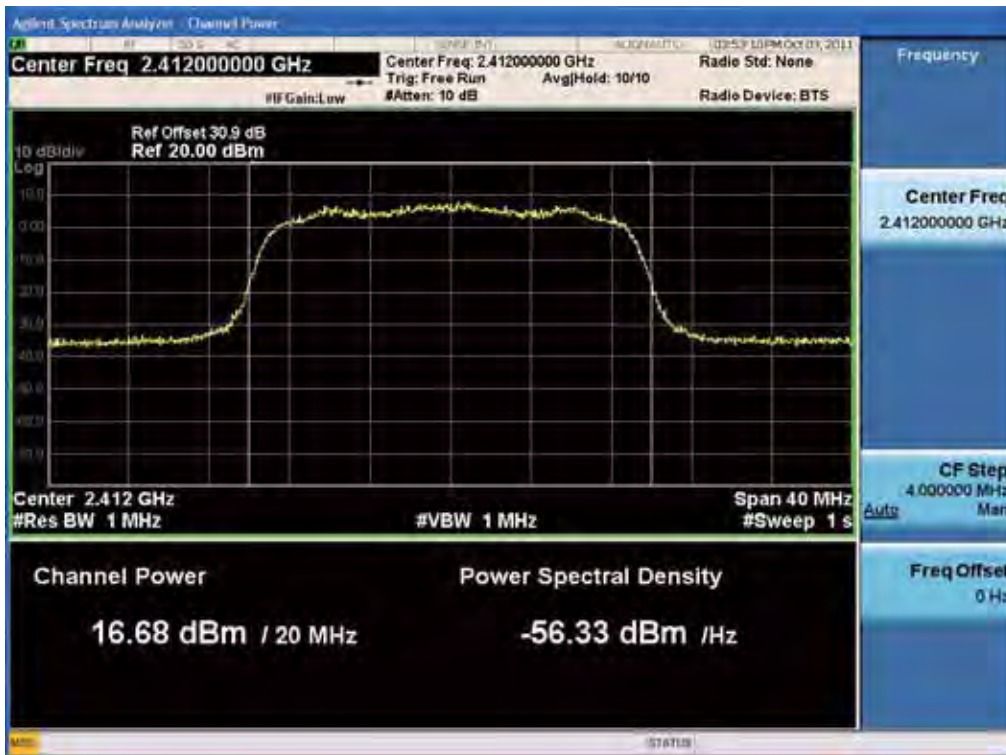
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RESULT PLOTS_Ant.0_20 MHz BW

Conducted Output Power (802.11n-CH 1) 6.5Mbps

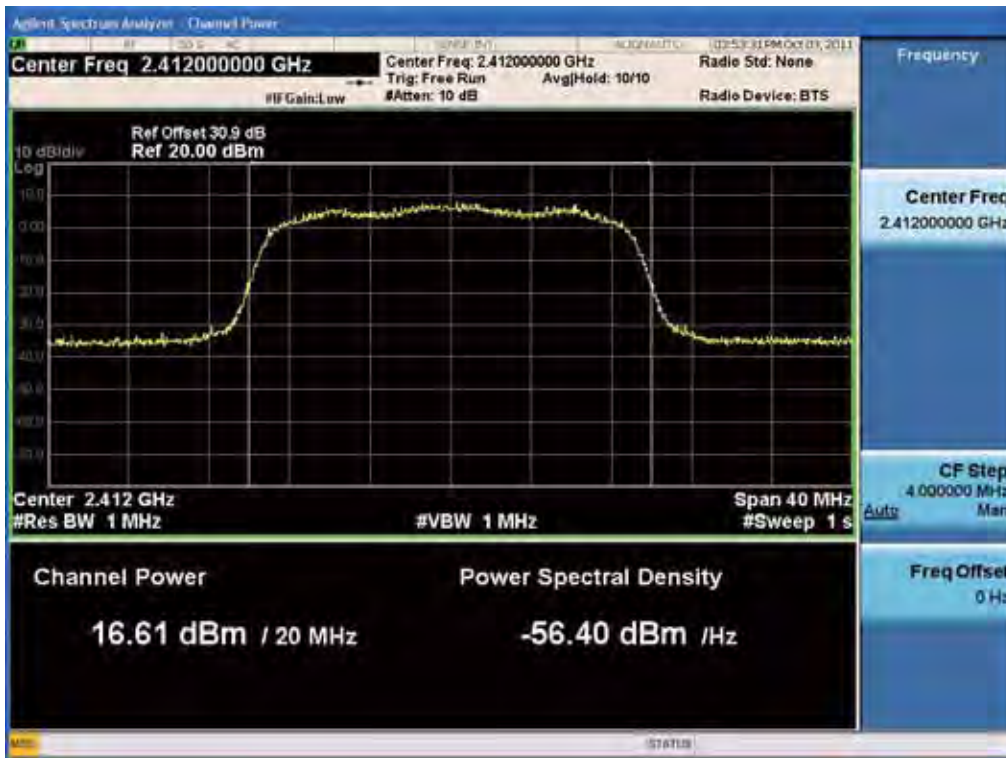


Conducted Output Power (802.11n-CH 1) 13Mbps



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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

Conducted Output Power (802.11n-CH 1) 19.5Mbps



Conducted Output Power (802.11n-CH 1) 26Mbps

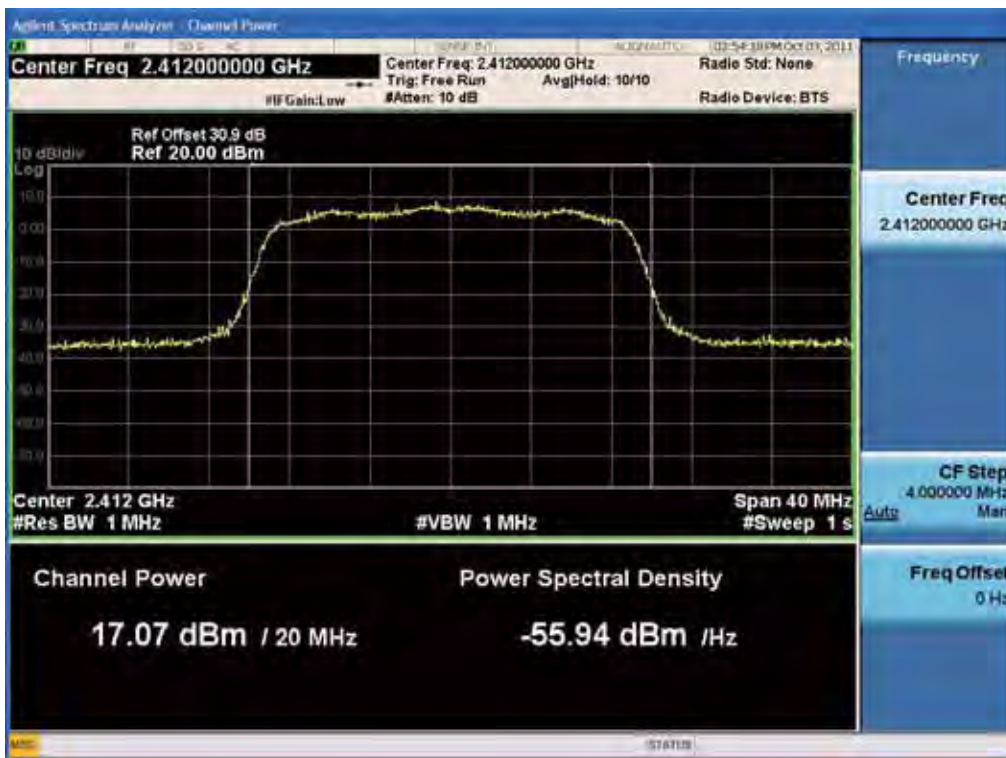


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: Wi-Fi Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

Conducted Output Power (802.11n-CH 1) 39Mbps

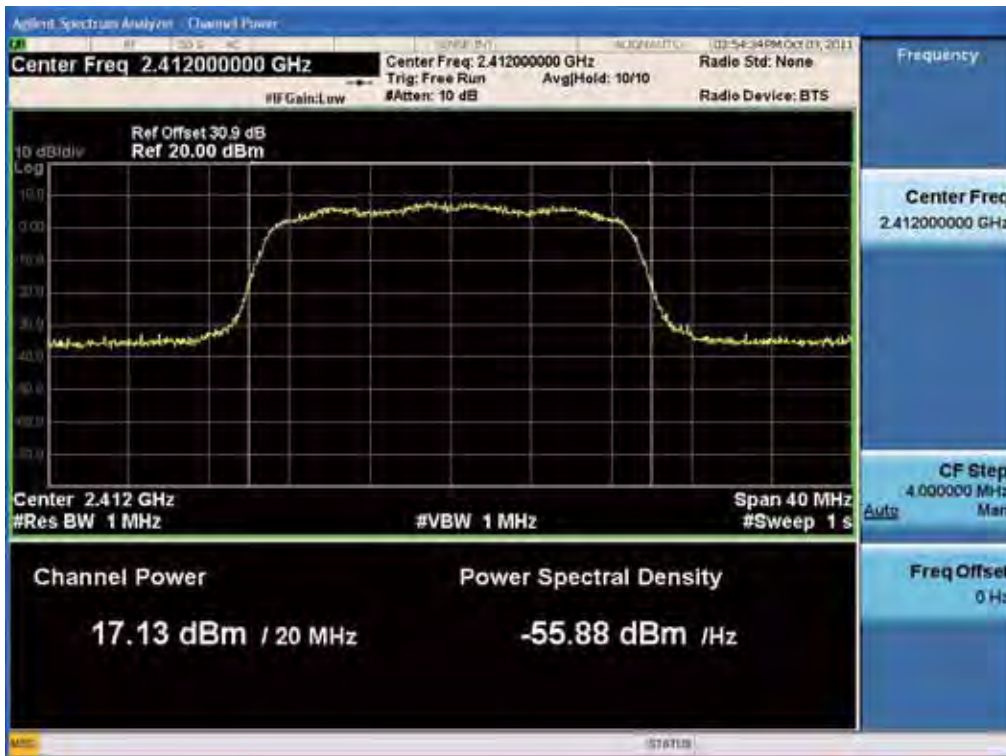


Conducted Output Power (802.11n-CH 1) 52Mbps



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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

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

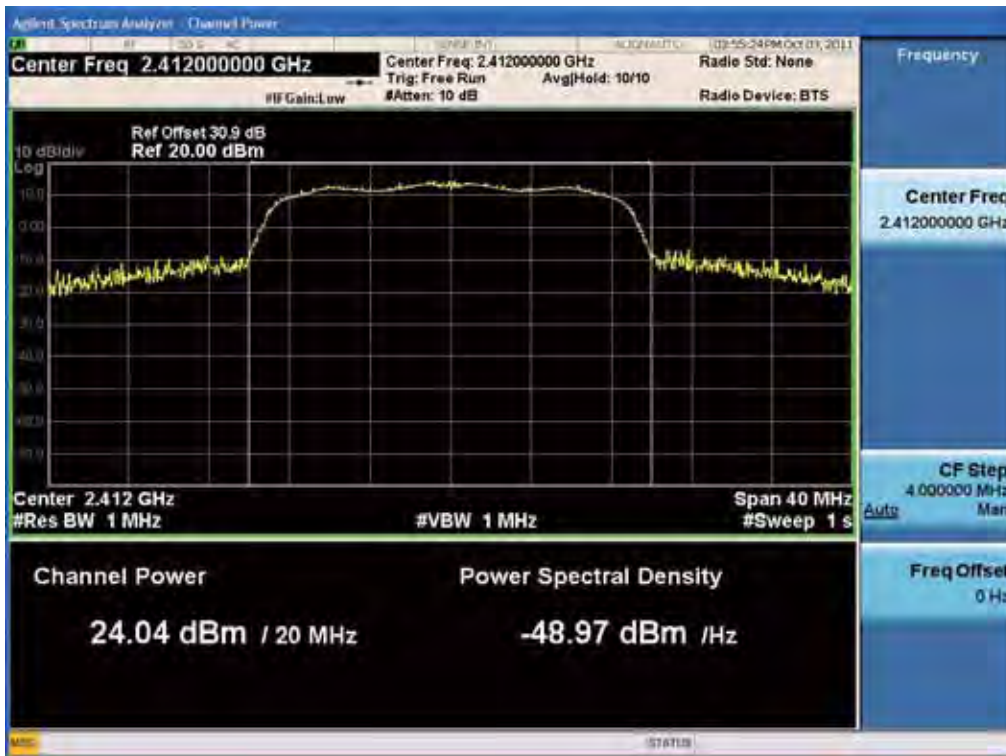


Conducted Output Power (802.11n-CH 1) 65Mbps



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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

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

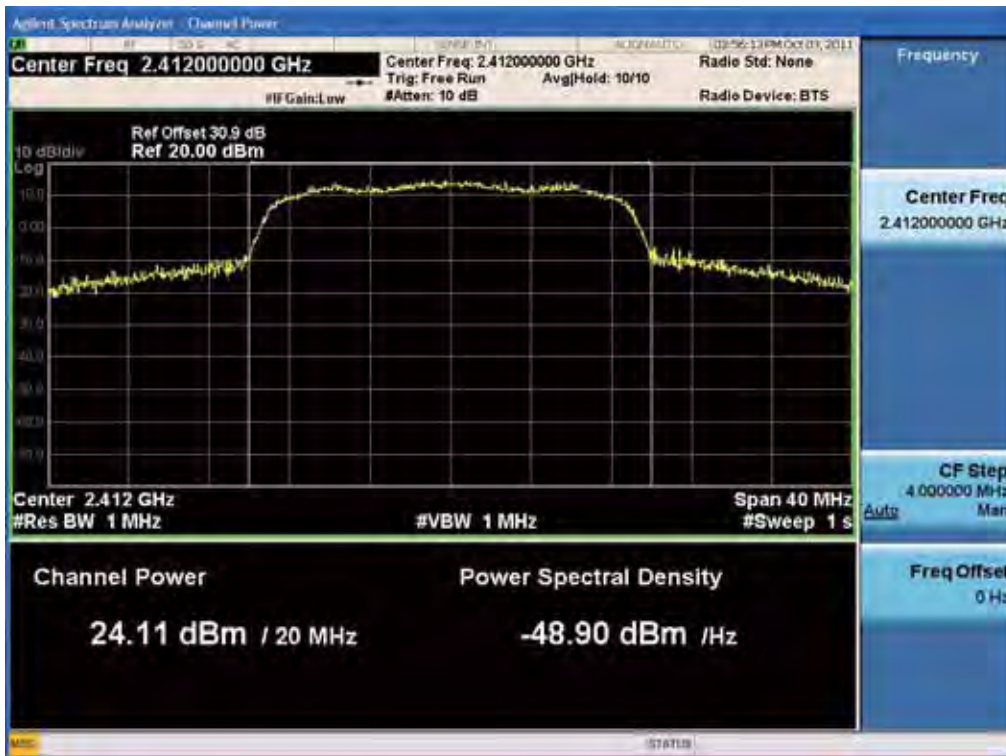


Conducted Output Power (802.11n-CH 6) 13Mbps



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

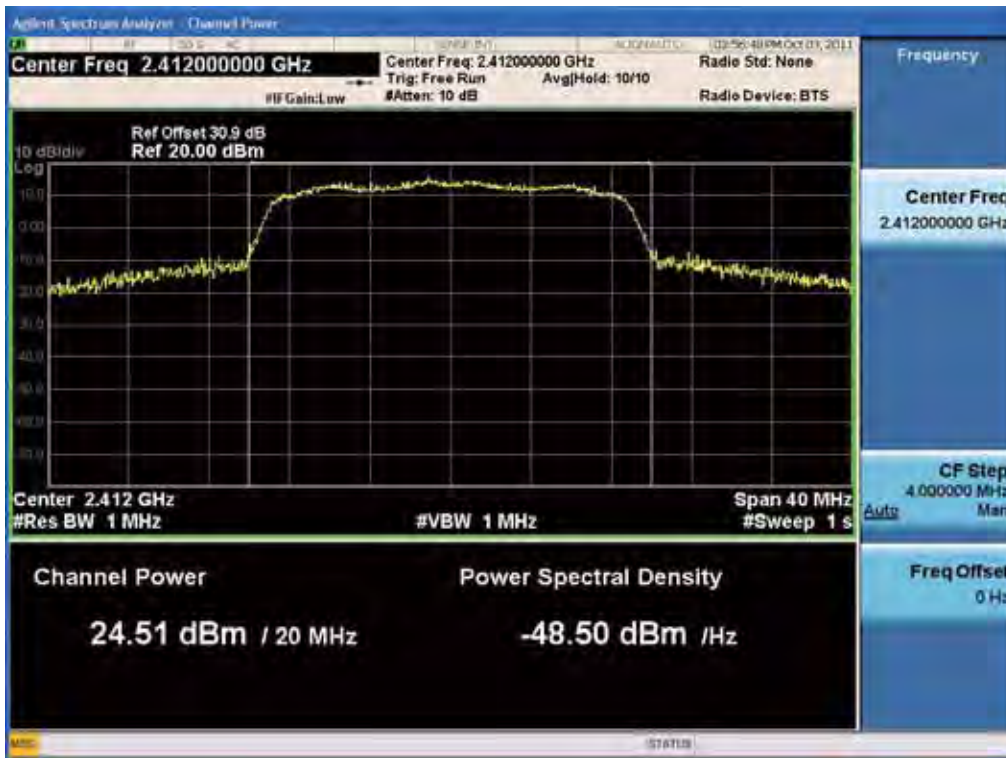


Conducted Output Power (802.11n-CH 6) 26Mbps



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

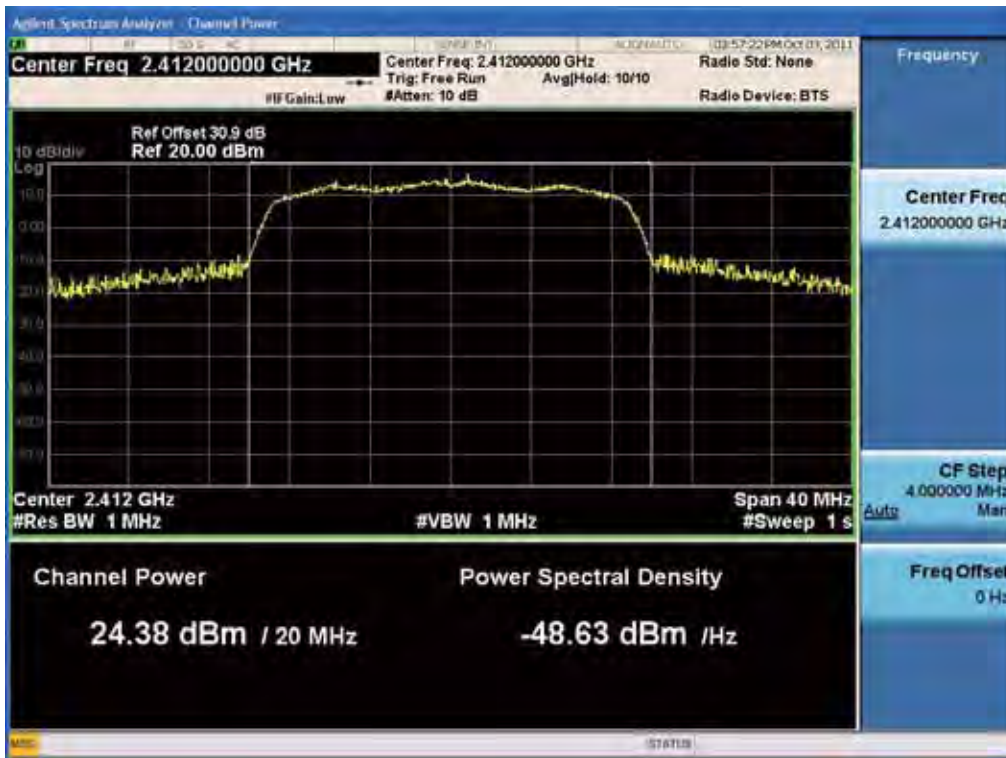


Conducted Output Power (802.11n-CH 6) 52Mbps



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

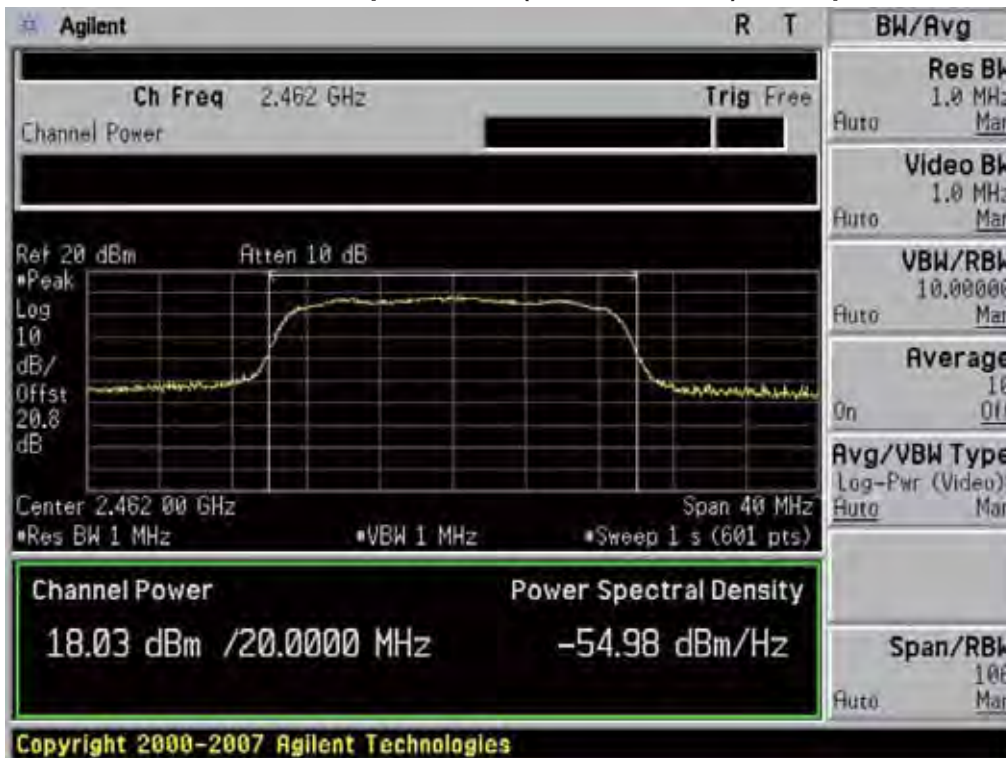


Conducted Output Power (802.11n-CH 6) 65Mbps

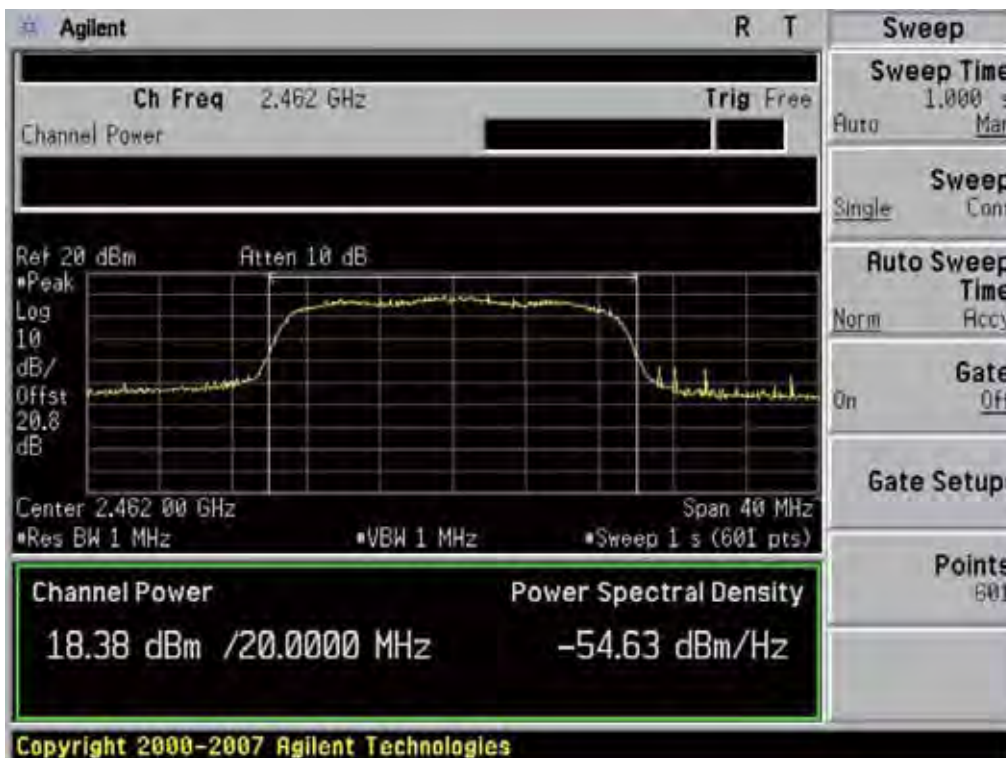


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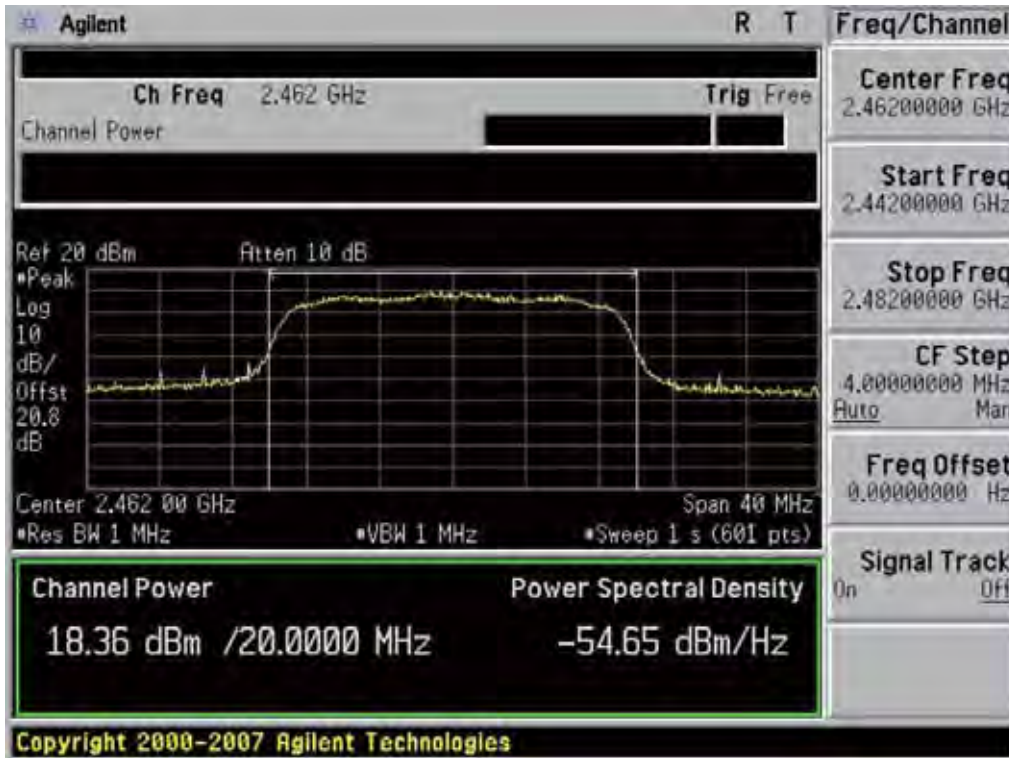
Conducted Output Power (802.11n-CH 11) 6.5Mbps



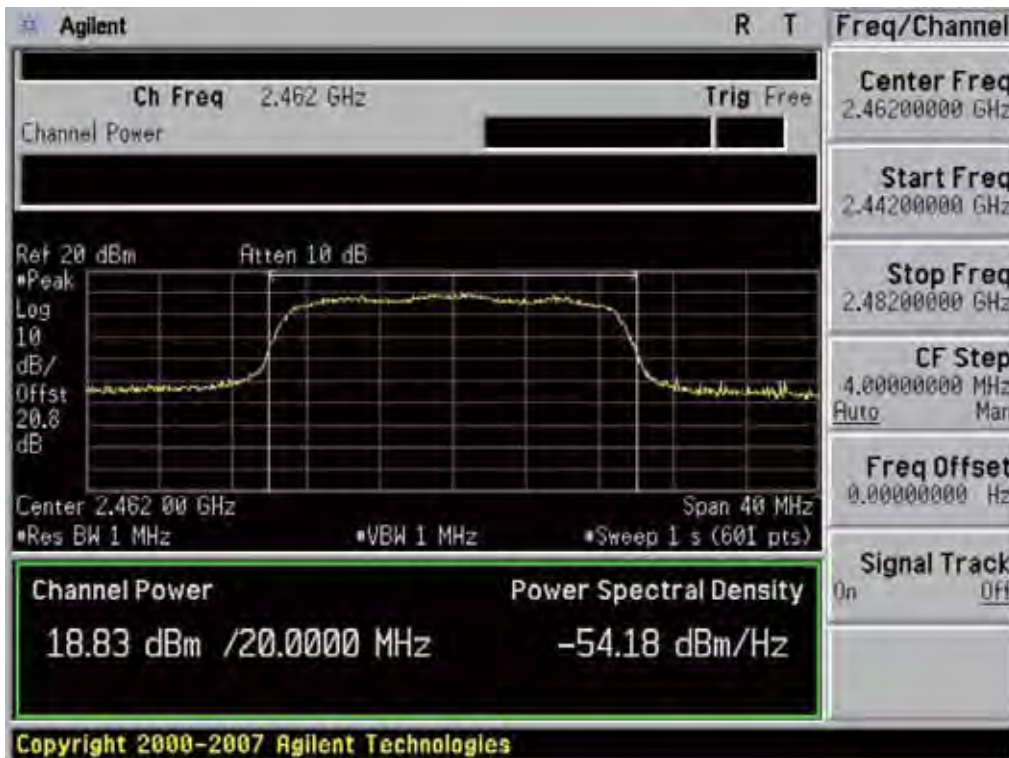
Conducted Output Power (802.11n-CH 11) 13Mbps



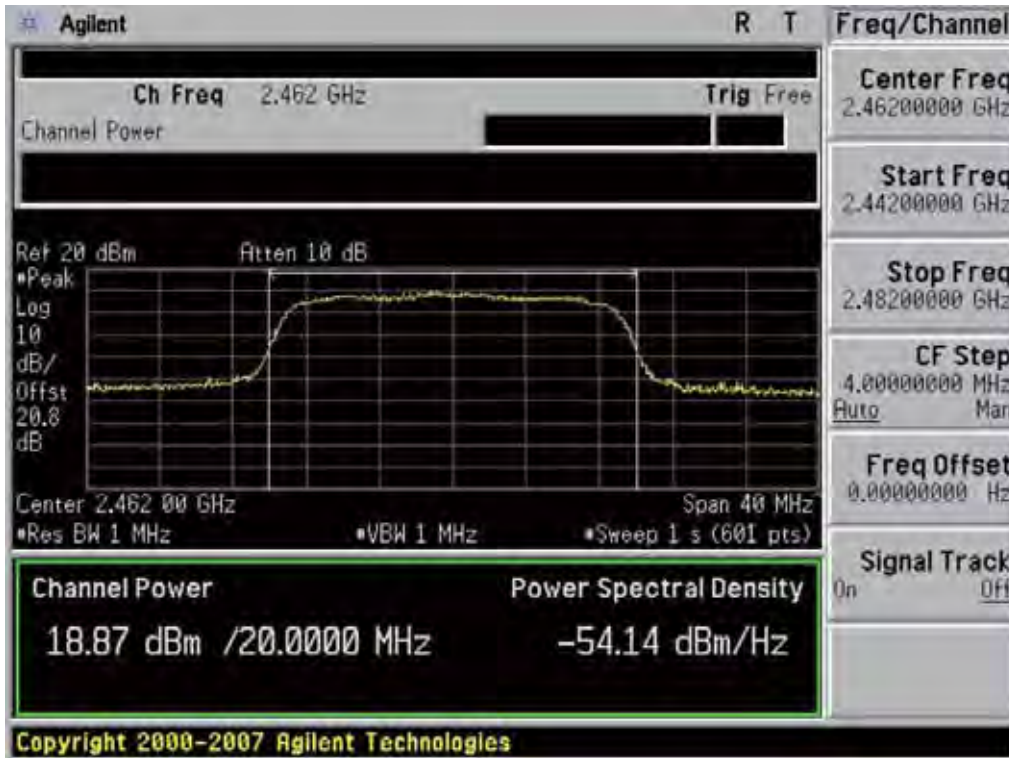
Conducted Output Power (802.11n-CH 11) 19.5Mbps



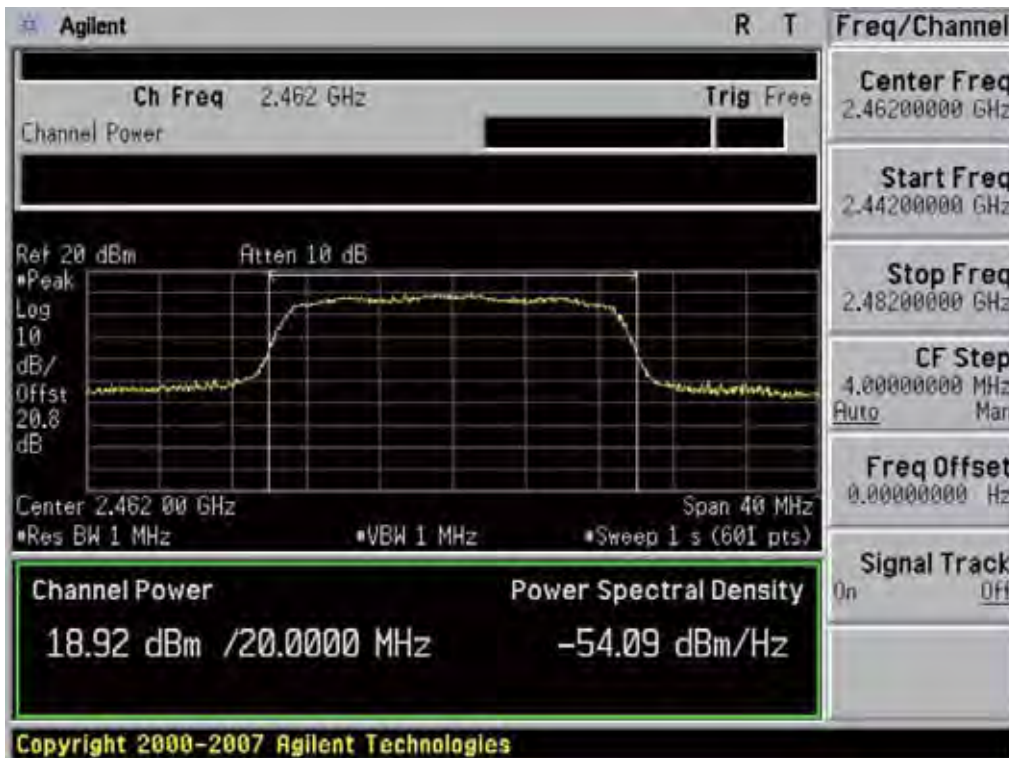
Conducted Output Power (802.11n-CH 11) 26Mbps



Conducted Output Power (802.11n-CH 11) 39Mbps

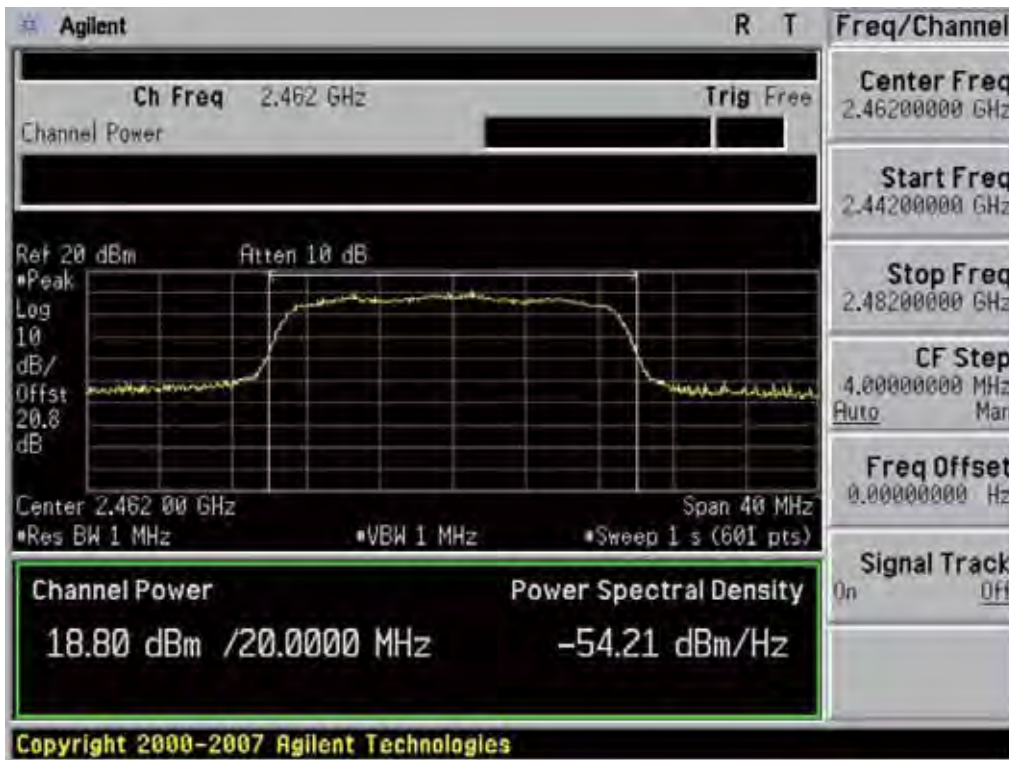


Conducted Output Power (802.11n-CH 11) 52Mbps

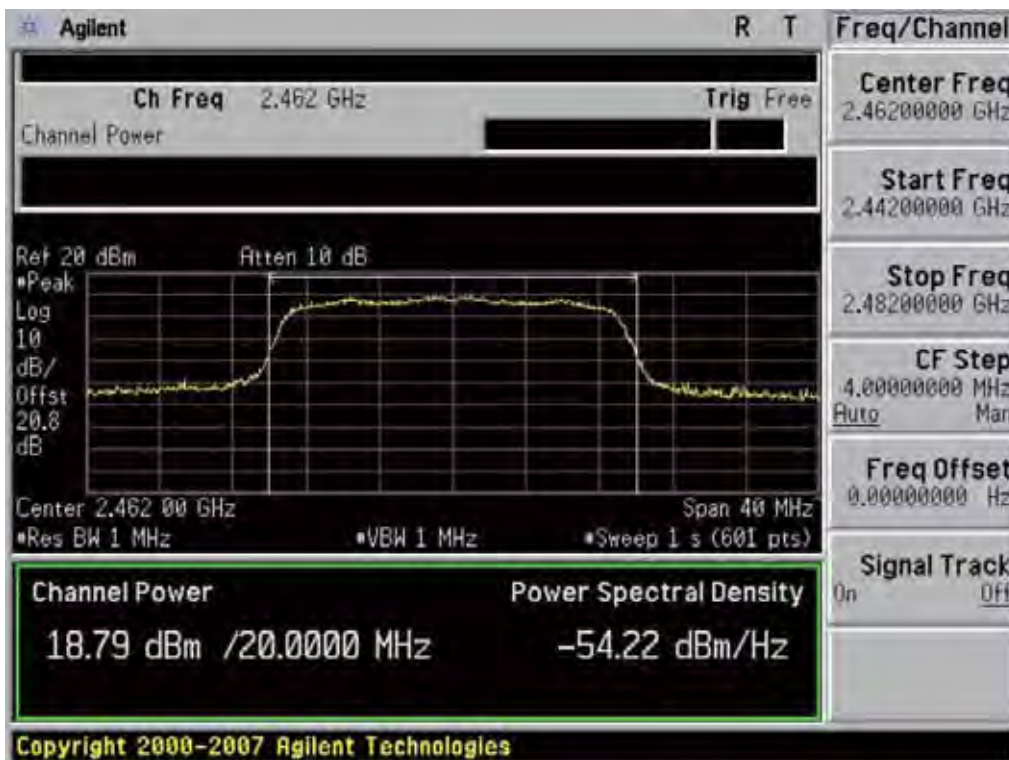


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Conducted Output Power (802.11n-CH 11) 58.5Mbps



Conducted Output Power (802.11n-CH 11) 65Mbps



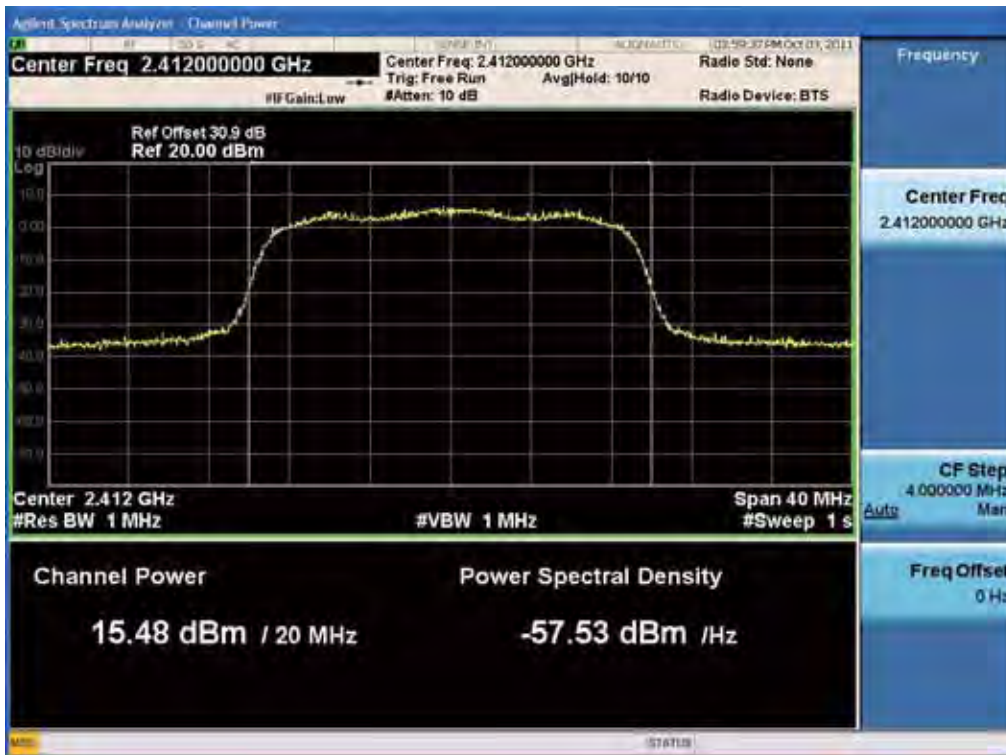
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RESULT PLOTS_Ant.1_ 20 MHz BW

Conducted Output Power (802.11n-CH 1) 6.5Mbps



Conducted Output Power (802.11n-CH 1) 13Mbps

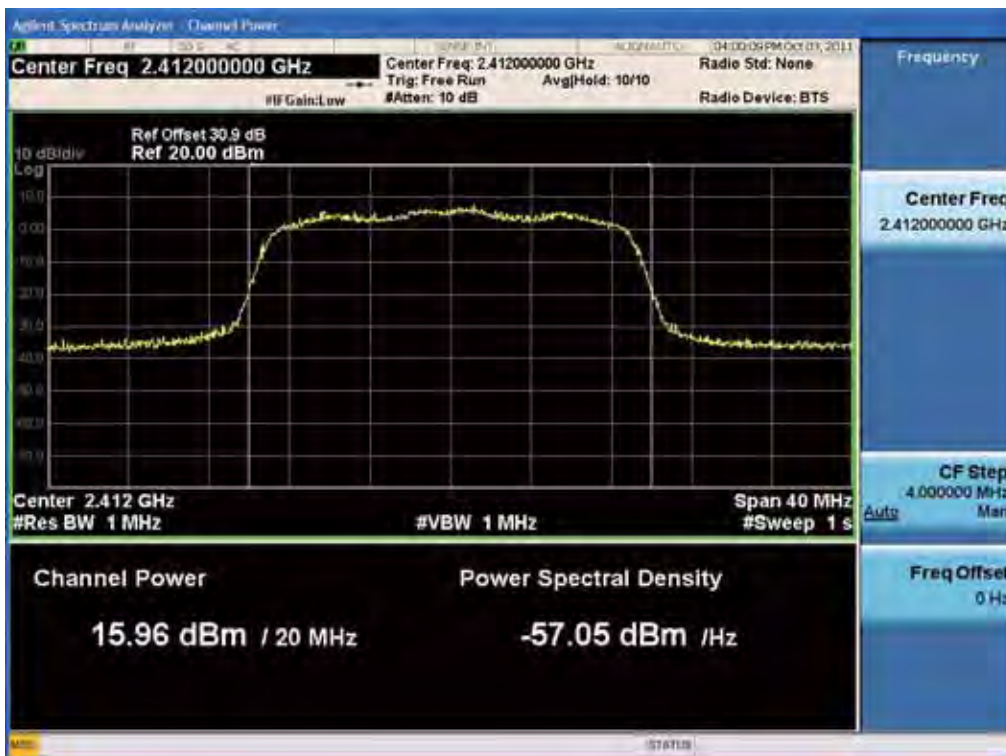


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Conducted Output Power (802.11n-CH 1) 19.5Mbps

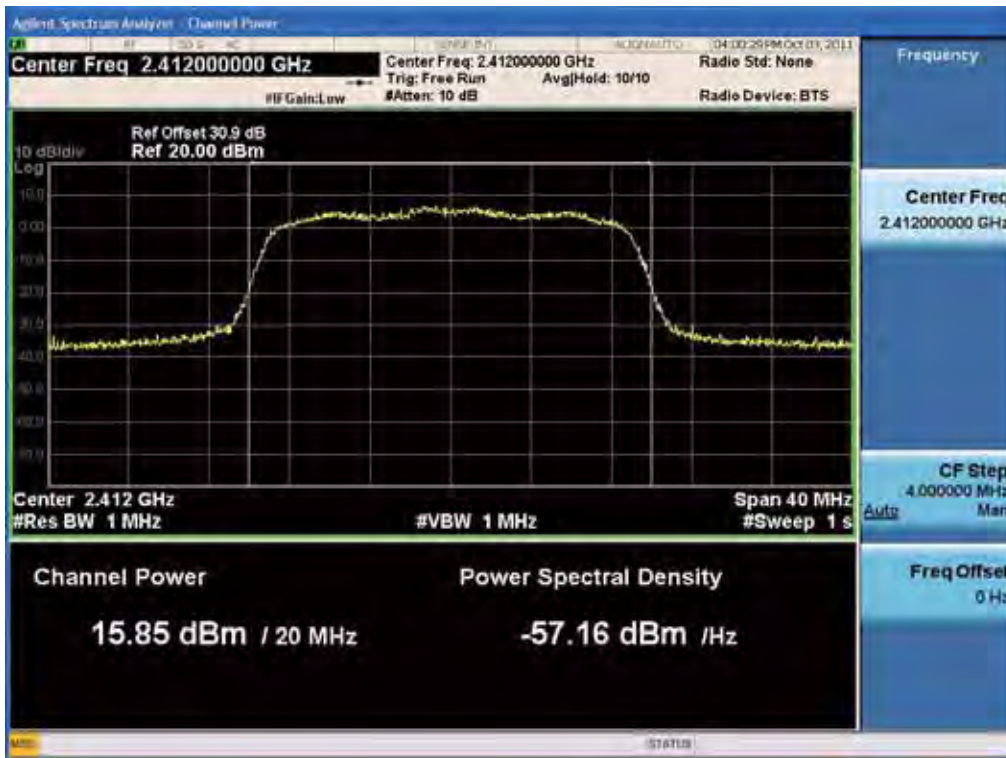


Conducted Output Power (802.11n-CH 1) 26Mbps

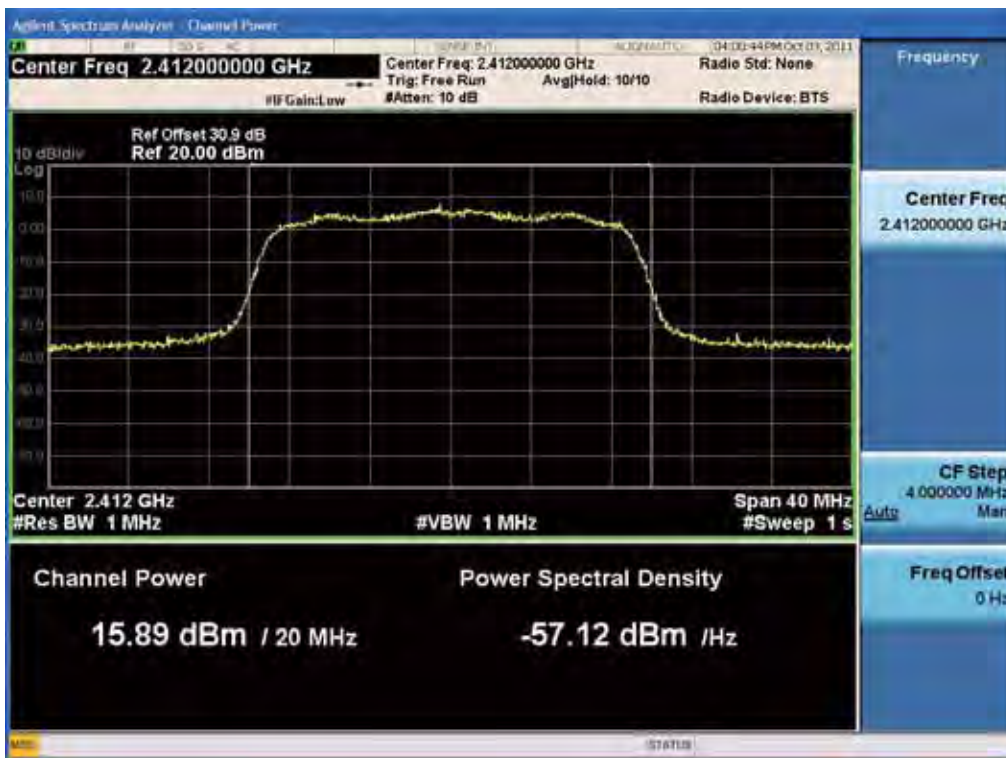


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Conducted Output Power (802.11n-CH 1) 39Mbps

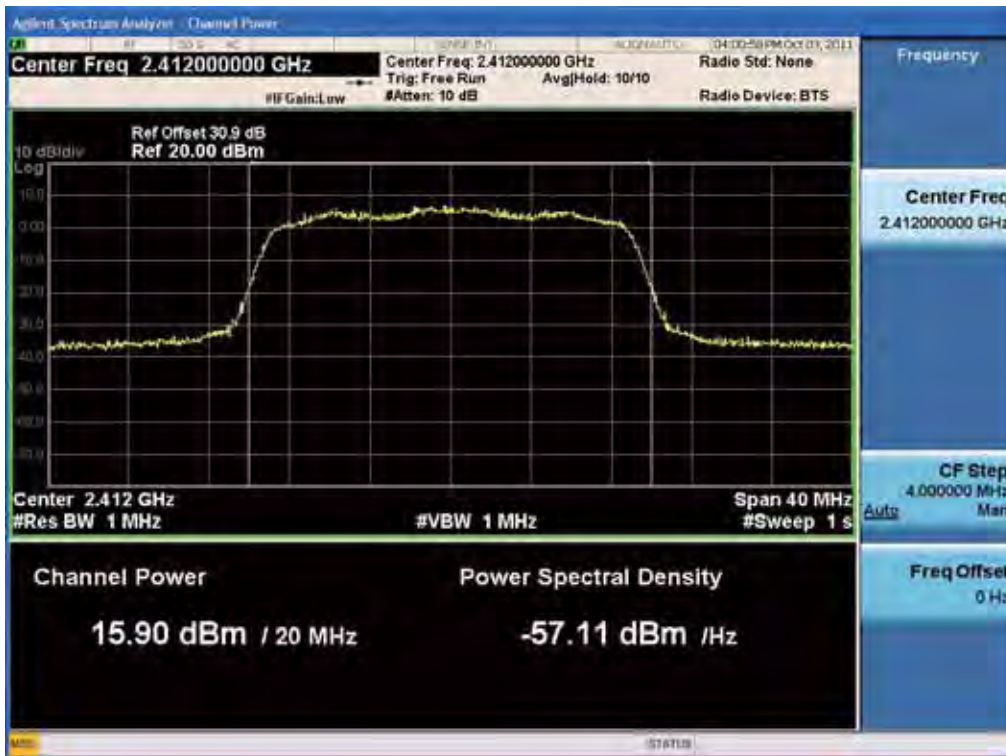


Conducted Output Power (802.11n-CH 1) 52Mbps

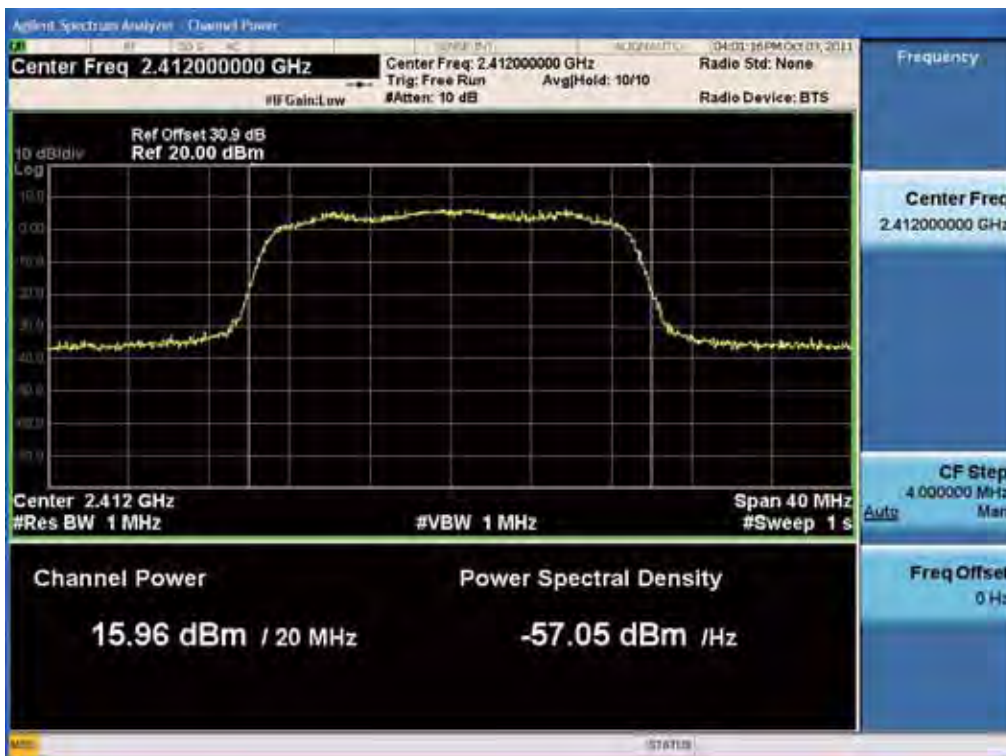


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Conducted Output Power (802.11n-CH 1) 58.5Mbps

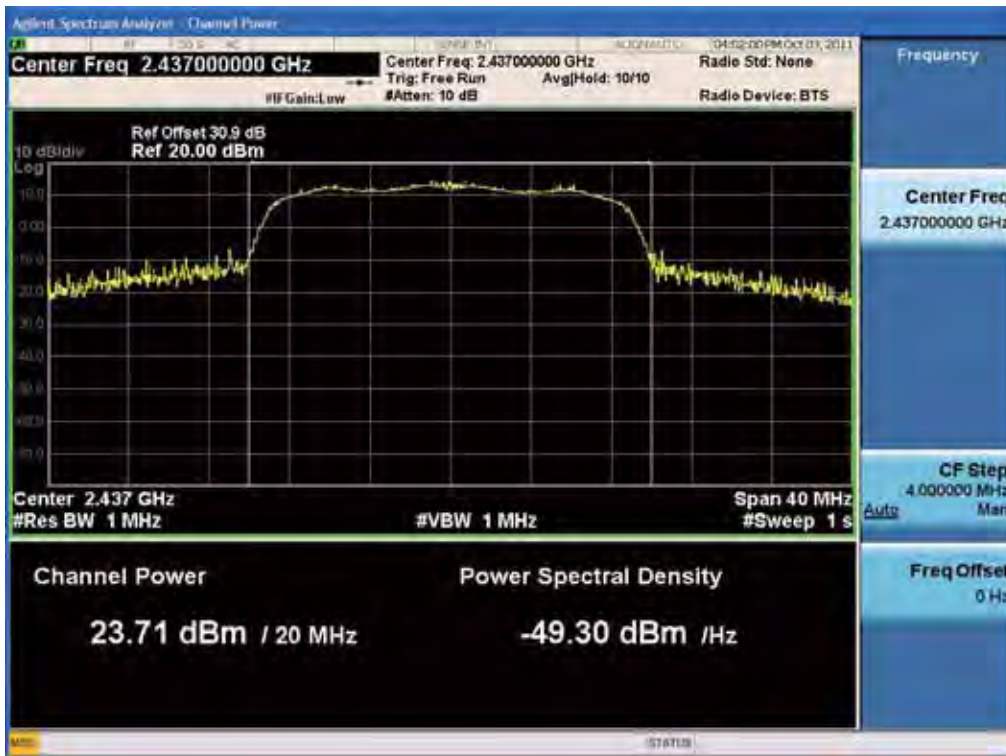


Conducted Output Power (802.11n-CH 1) 65Mbps



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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

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



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



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

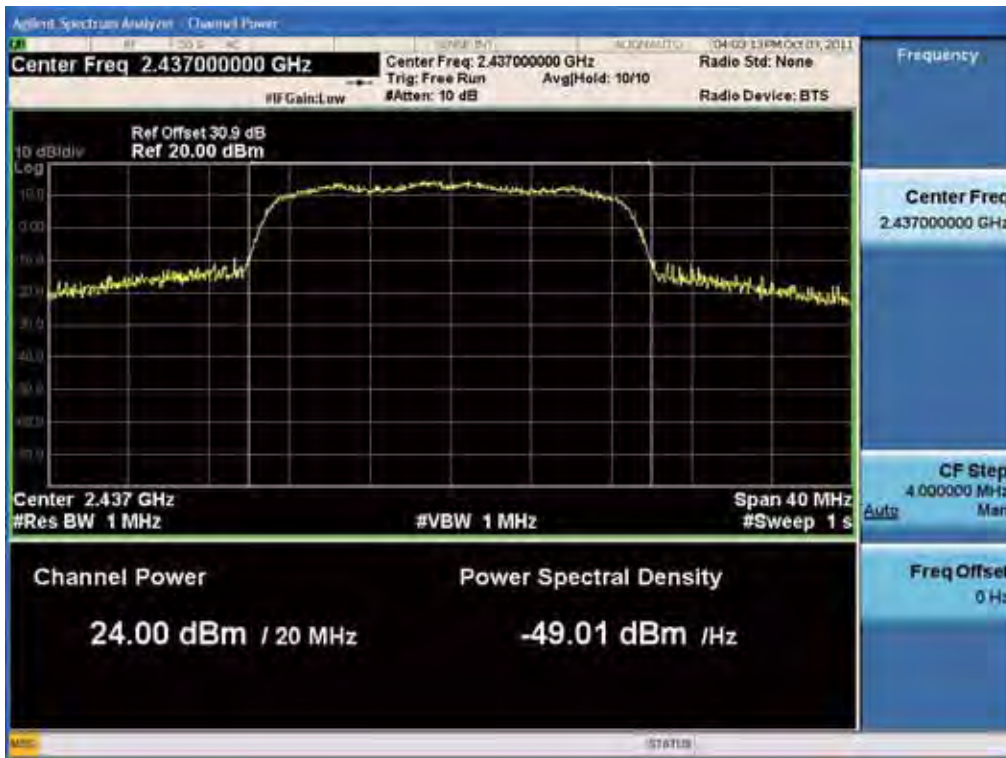


Conducted Output Power (802.11n-CH 6) 26Mbps



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



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



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

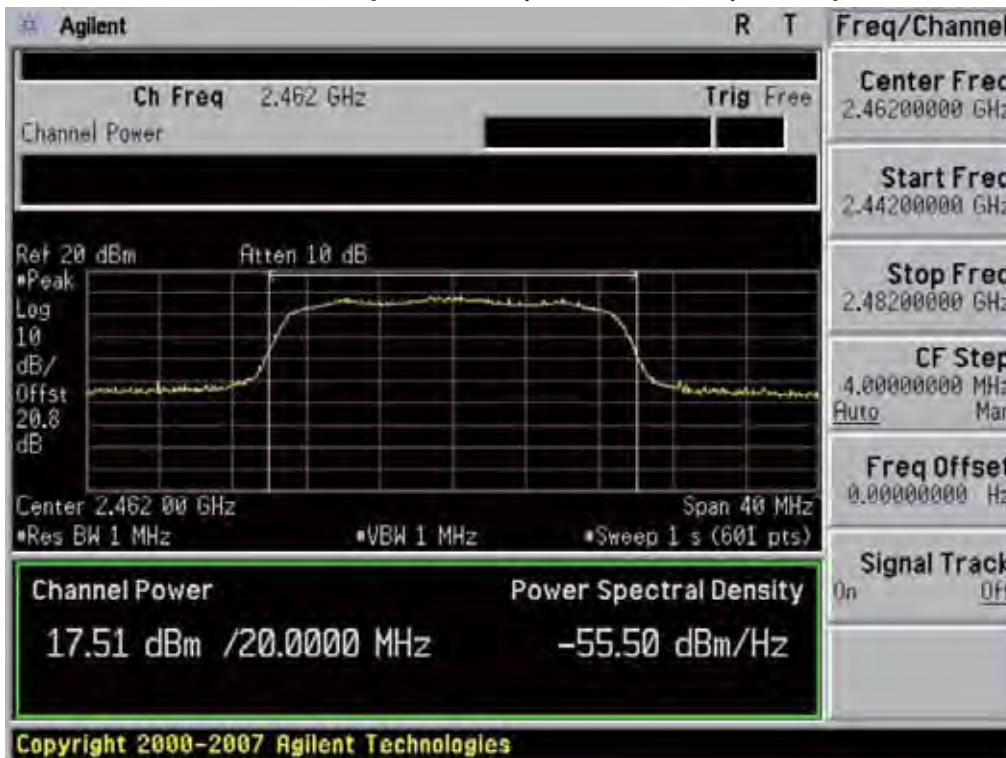


Conducted Output Power (802.11n-CH 6) 65Mbps

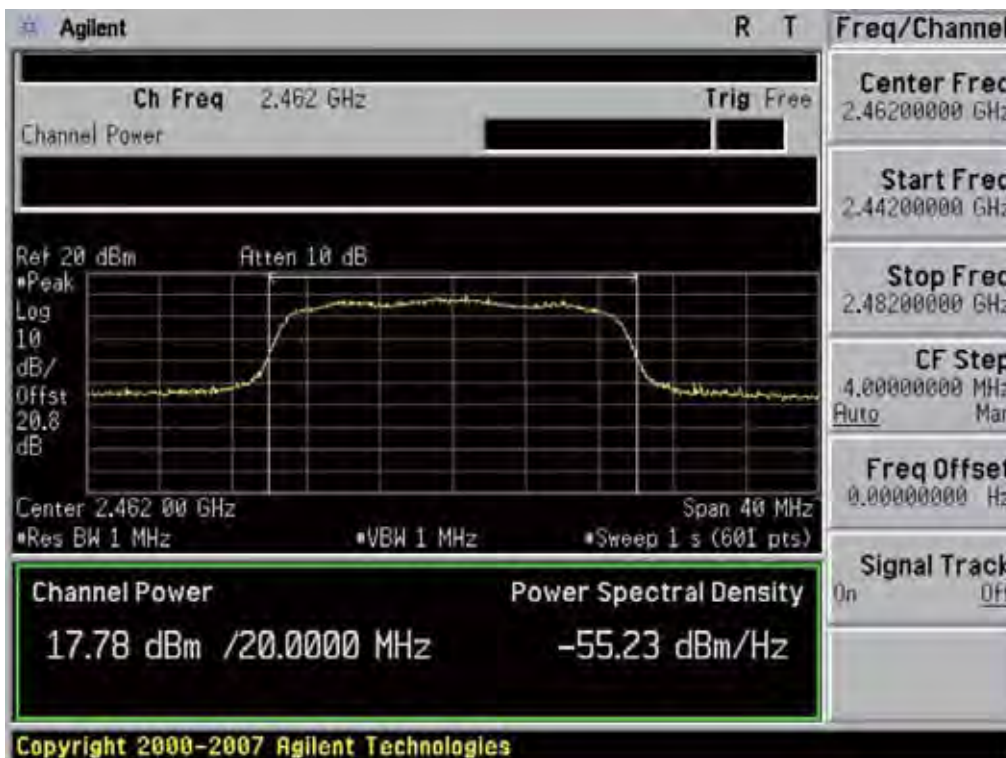


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Conducted Output Power (802.11n-CH 11) 6.5Mbps

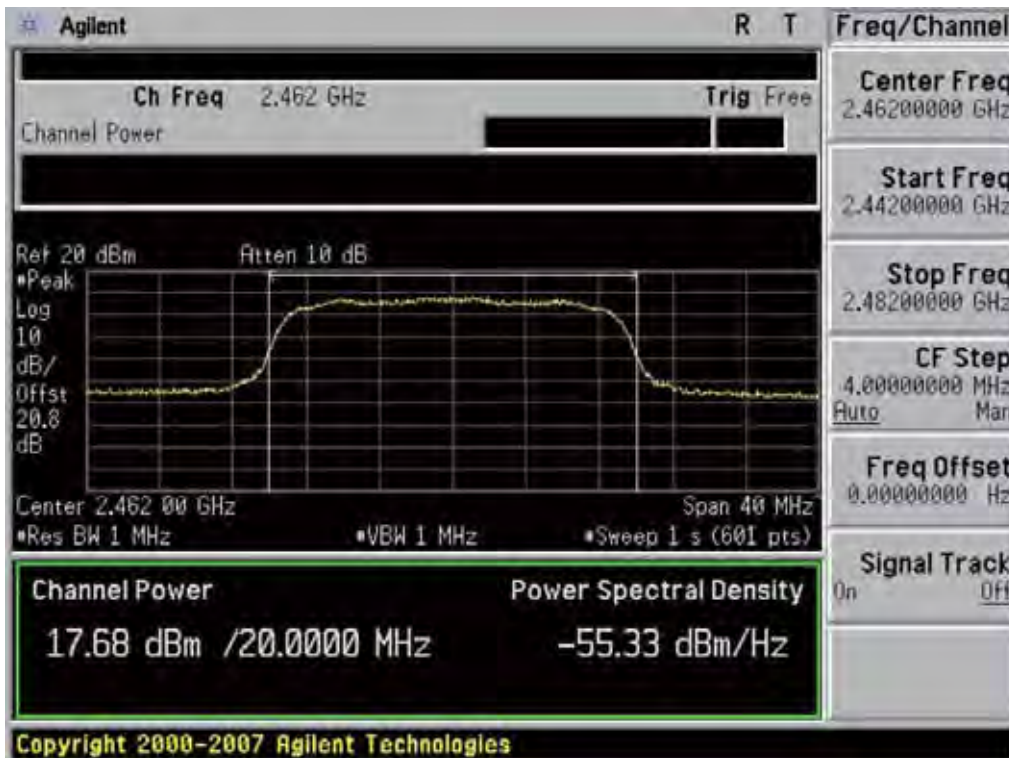


Conducted Output Power (802.11n-CH 11) 13Mbps

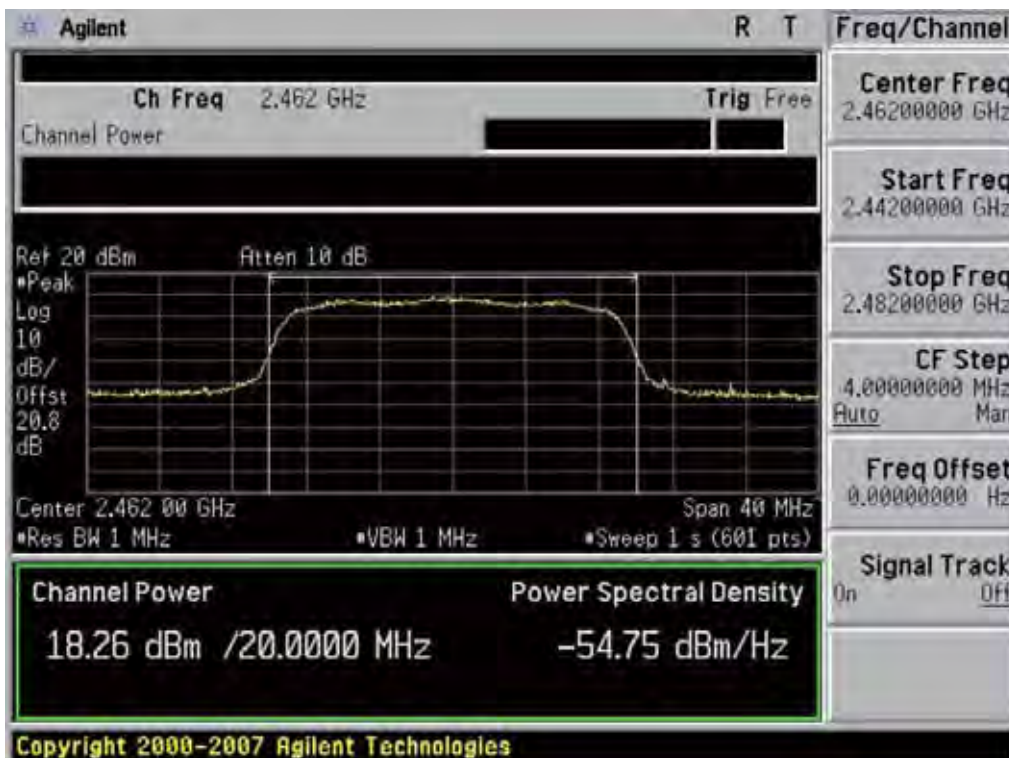


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Conducted Output Power (802.11n-CH 11) 19.5Mbps

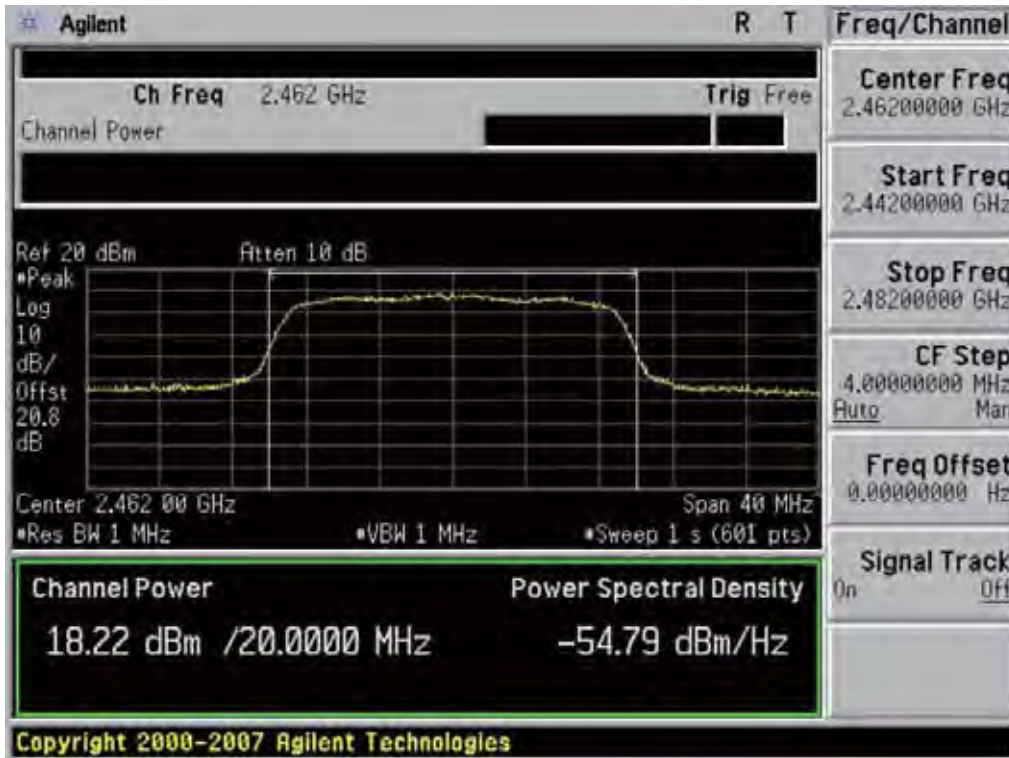


Conducted Output Power (802.11n-CH 11) 26Mbps

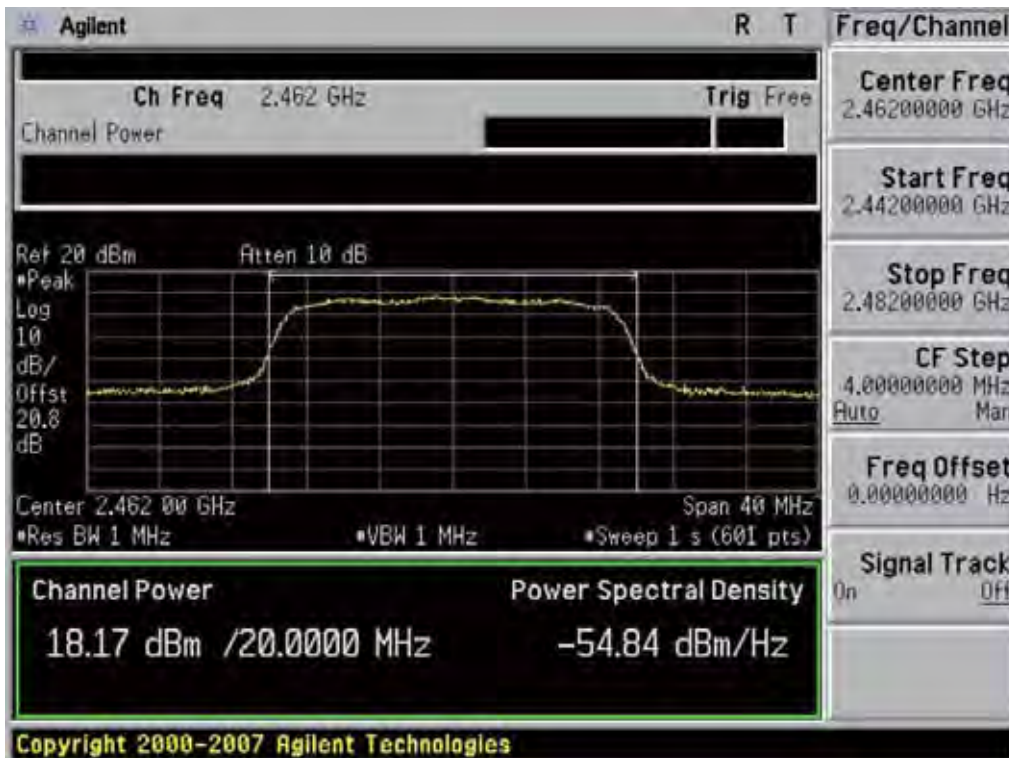


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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Conducted Output Power (802.11n-CH 11) 39Mbps

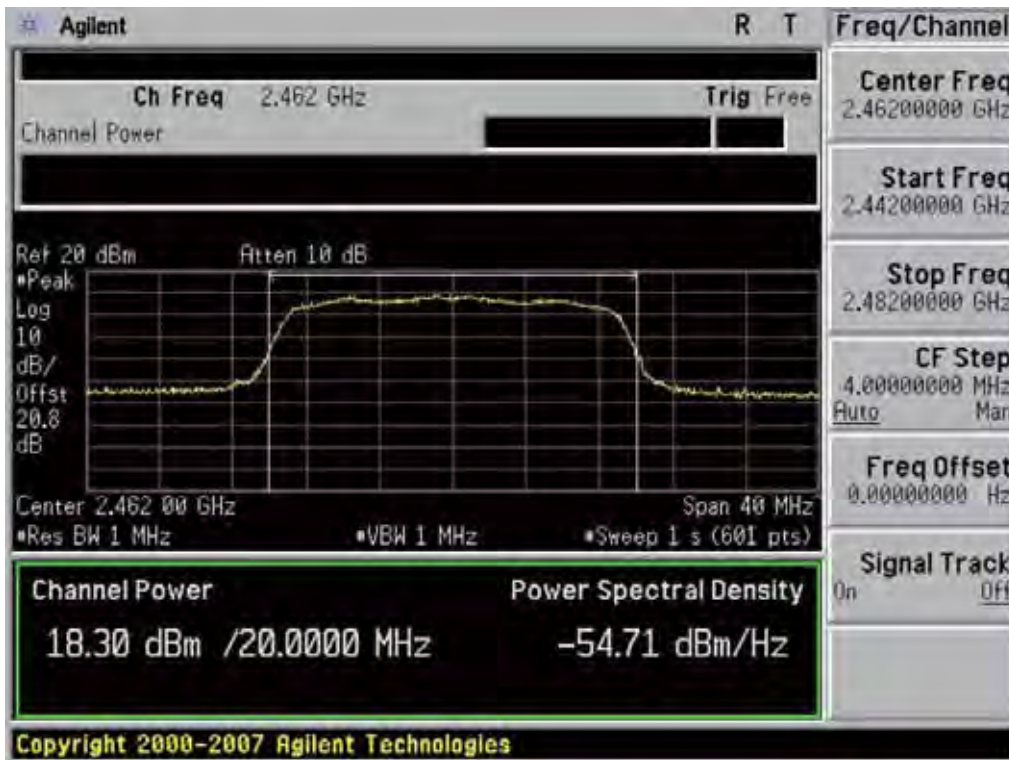


Conducted Output Power (802.11n-CH 11) 52Mbps

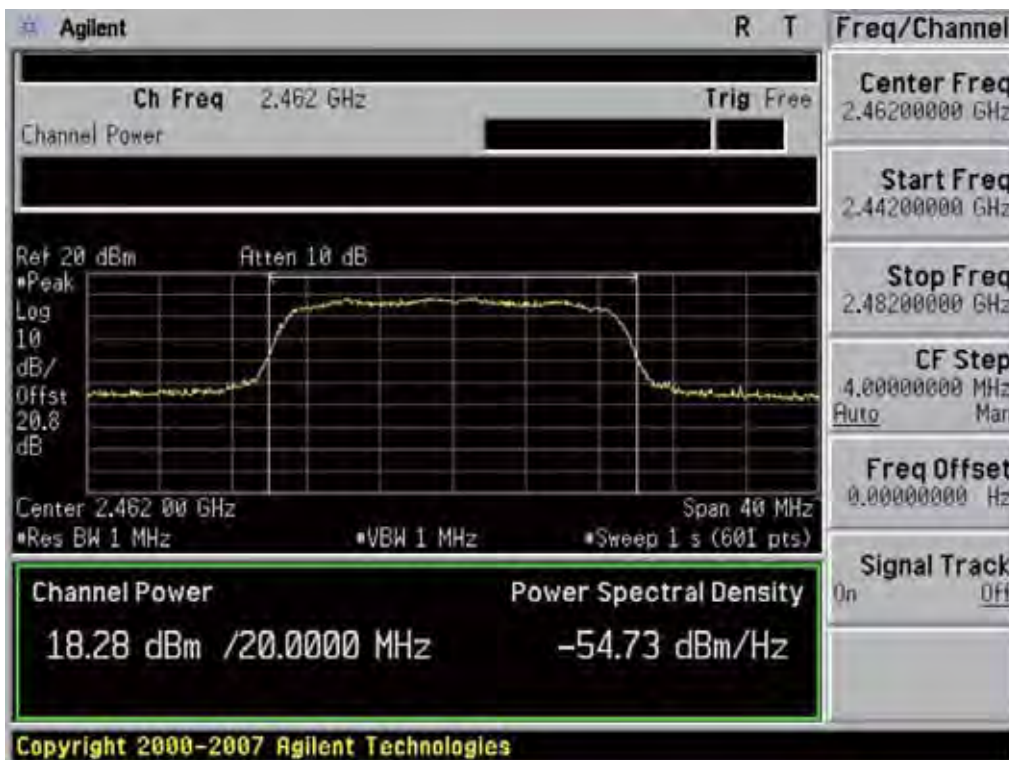


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Conducted Output Power (802.11n-CH 11) 58.5Mbps



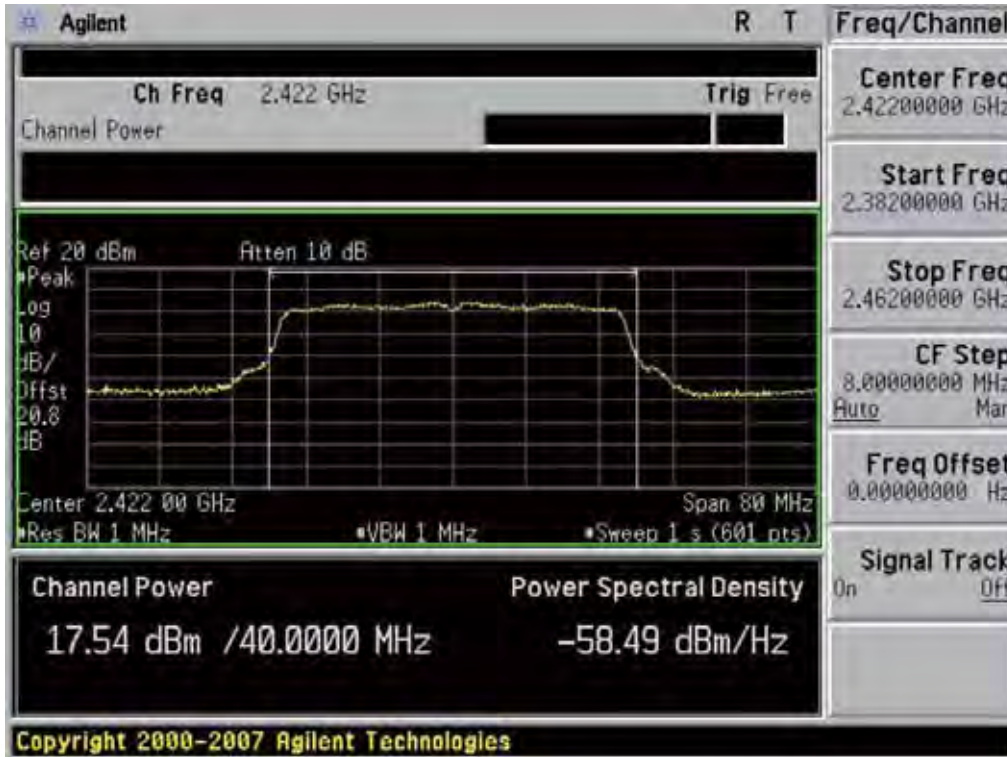
Conducted Output Power (802.11n-CH 11) 65Mbps



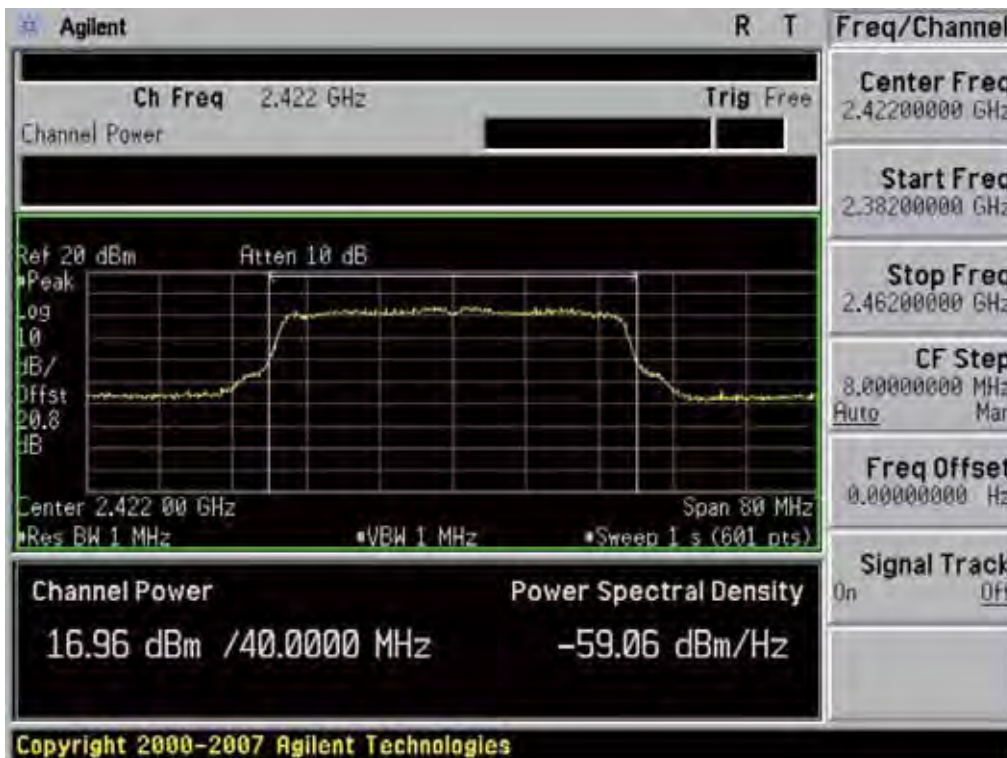
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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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RESULT PLOTS_Ant.0:_40 MHz BW

Conducted Output Power (802.11n-CH 3) 13.5 Mbps

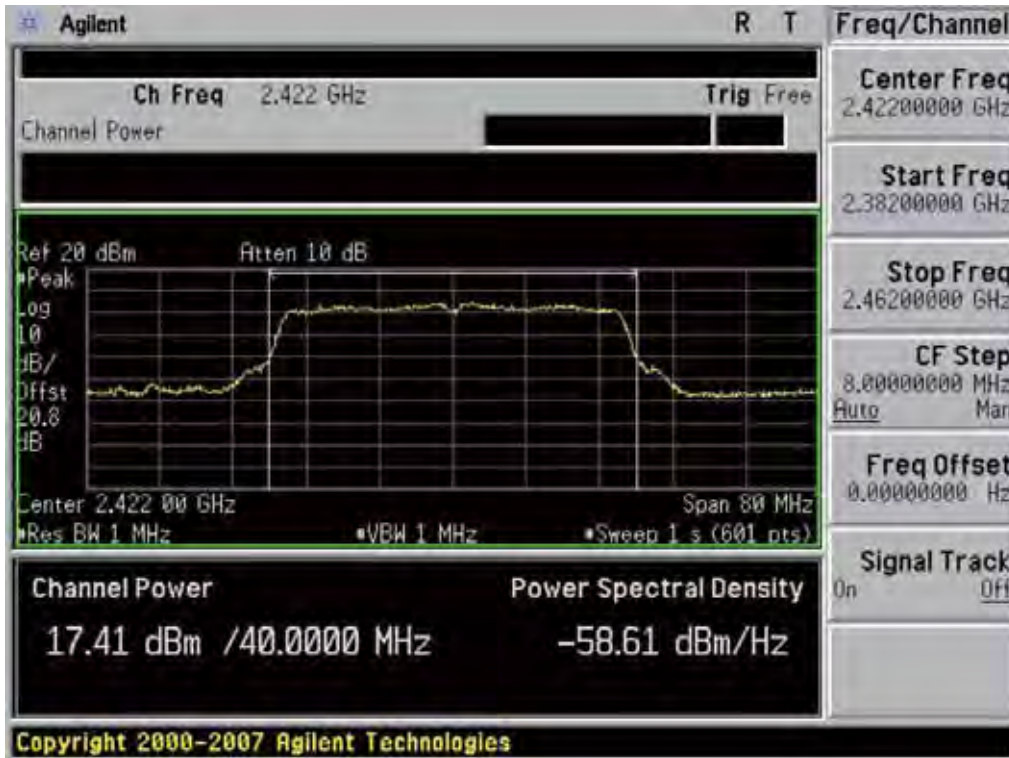


Conducted Output Power (802.11n-CH 3) 27 Mbps

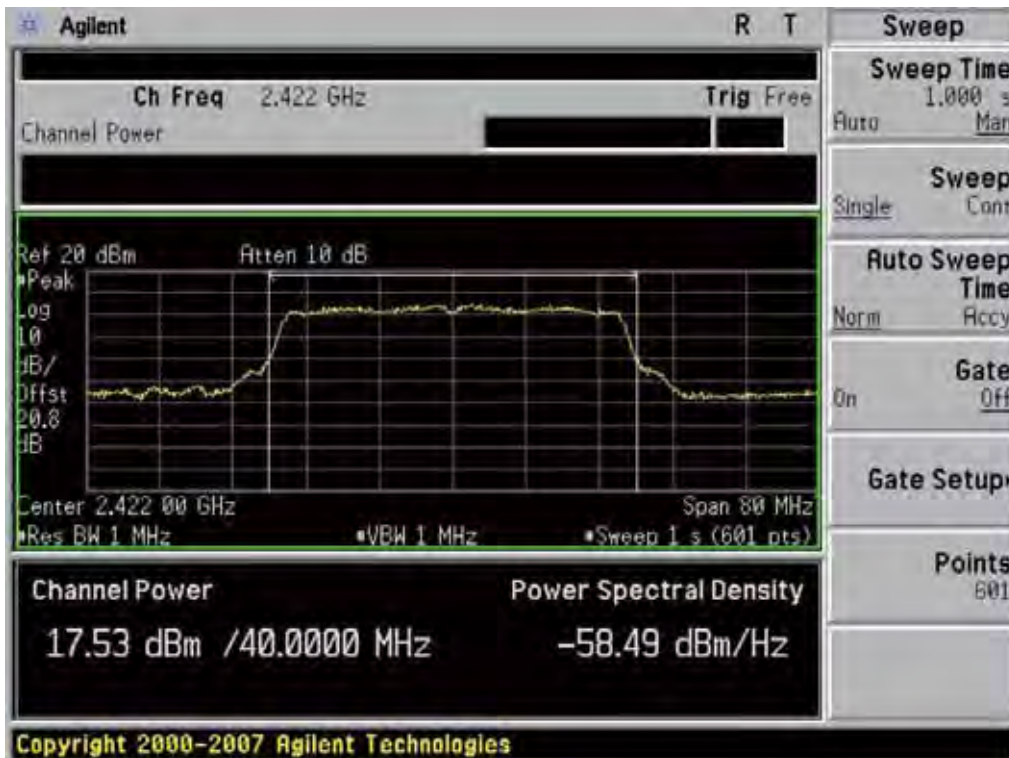


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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Conducted Output Power (802.11n-CH 3) 40.5 Mbps



Conducted Output Power (802.11n-CH 3) 54 Mbps

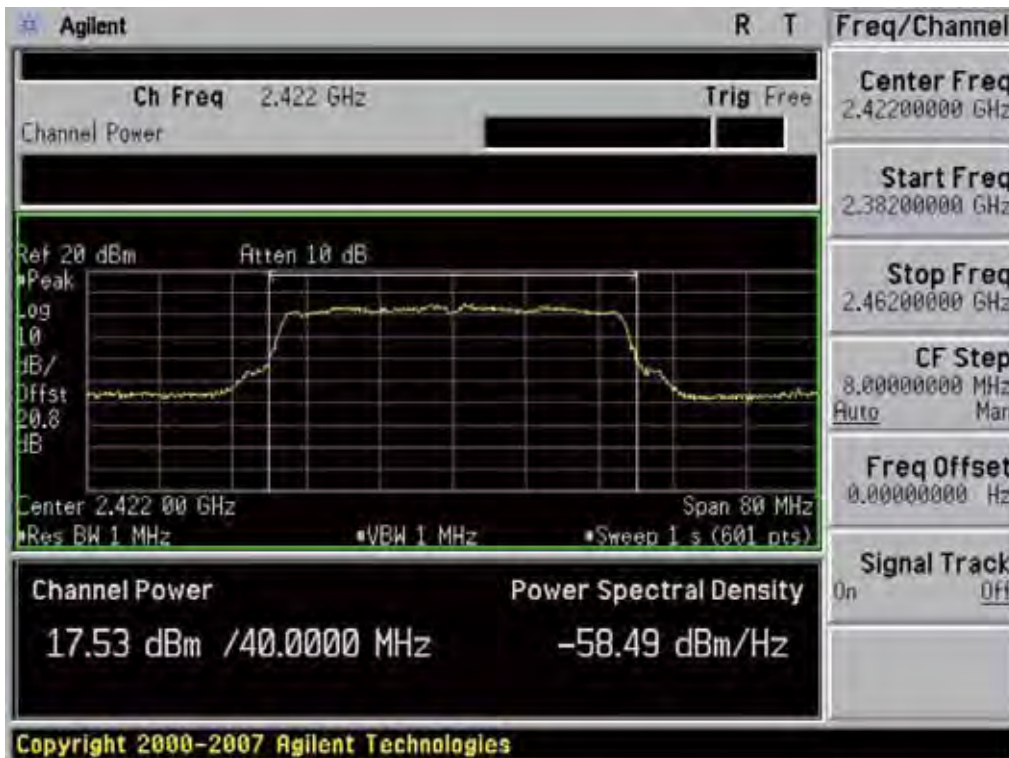


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

Conducted Output Power (802.11n-CH 3) 81 Mbps



Conducted Output Power (802.11n-CH 3) 108 Mbps

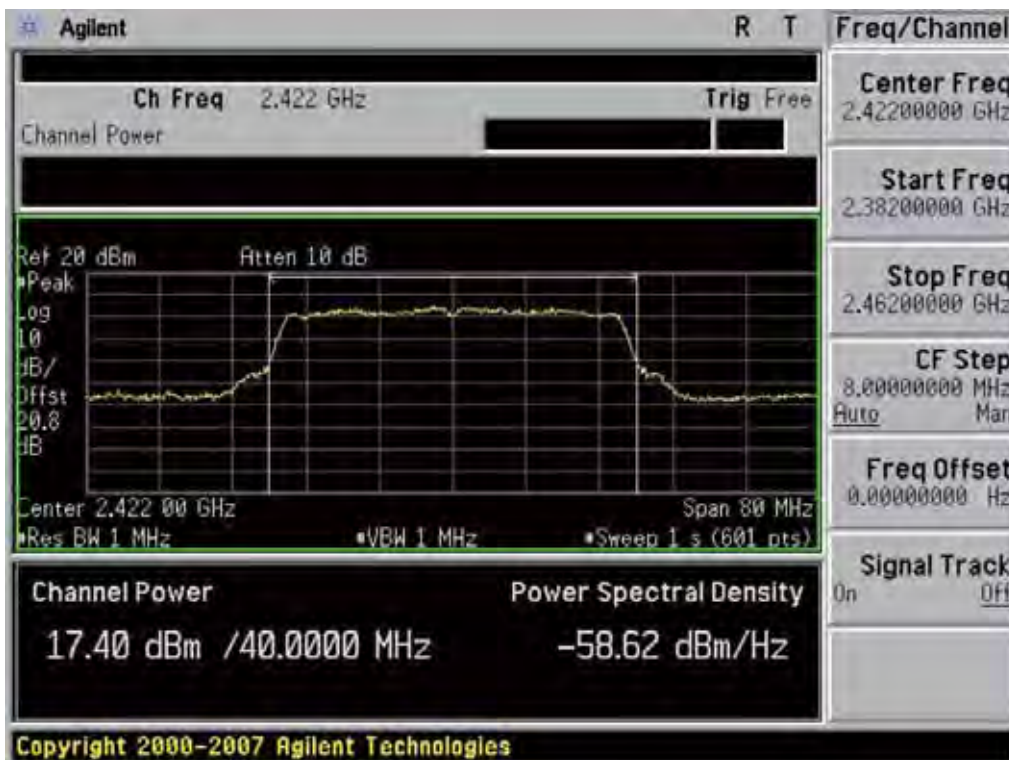


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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Conducted Output Power (802.11n-CH 3) 121.5 Mbps

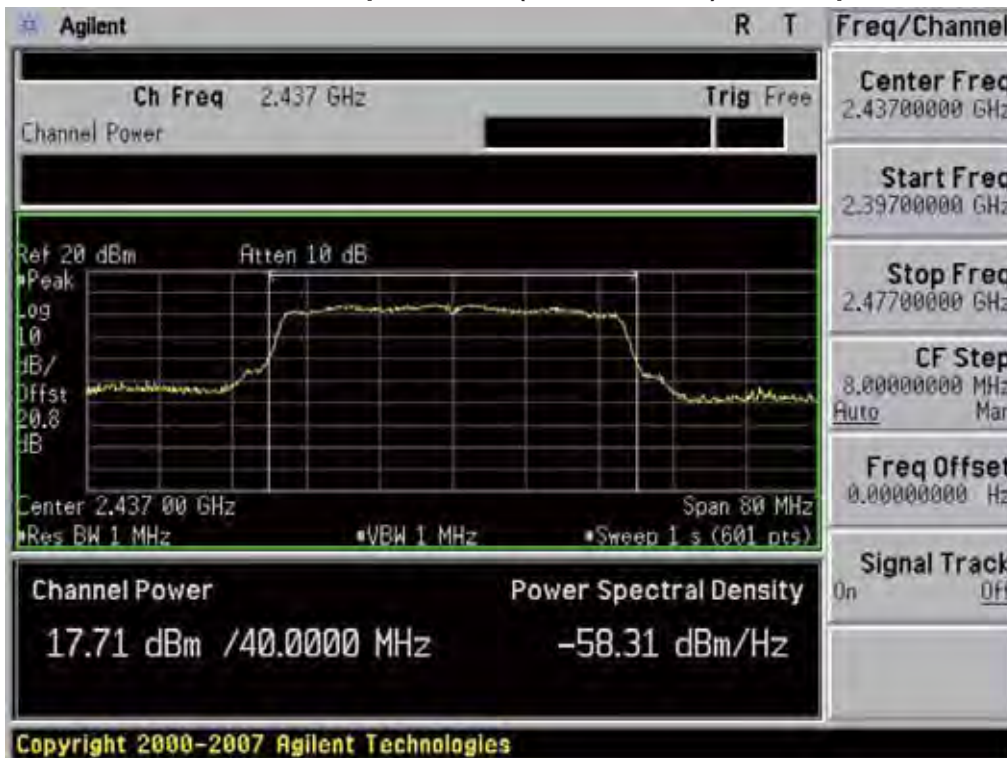


Conducted Output Power (802.11n-CH 3) 135 Mbps

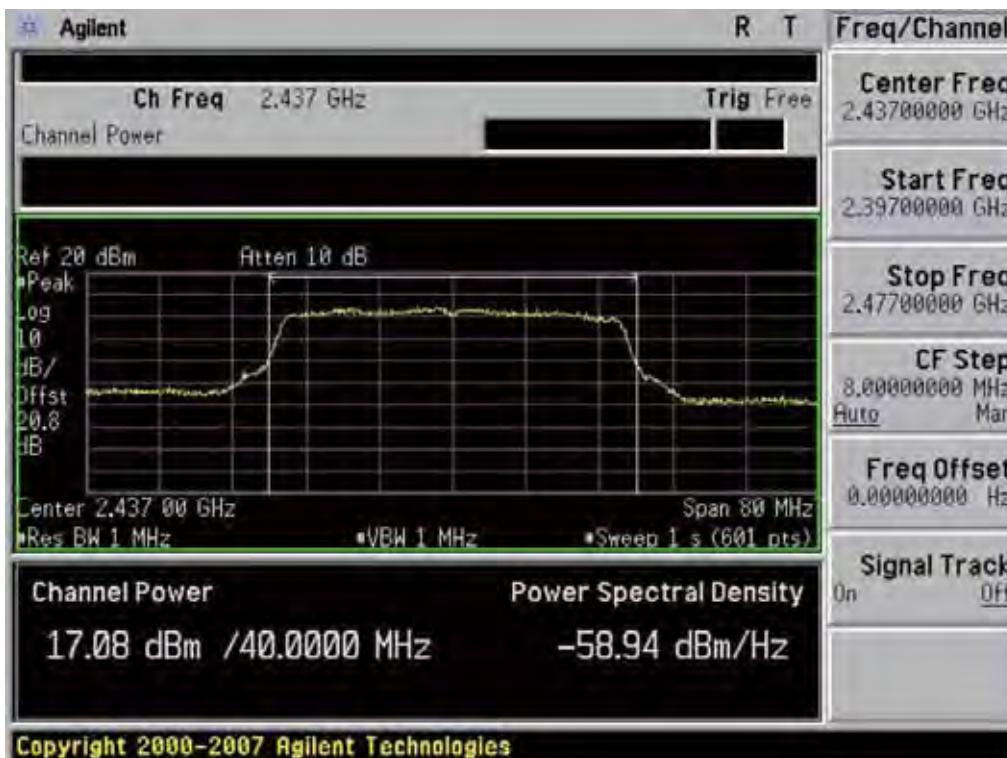


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

Conducted Output Power (802.11n-CH 6) 13.5 Mbps



Conducted Output Power (802.11n-CH 6) 27 Mbps

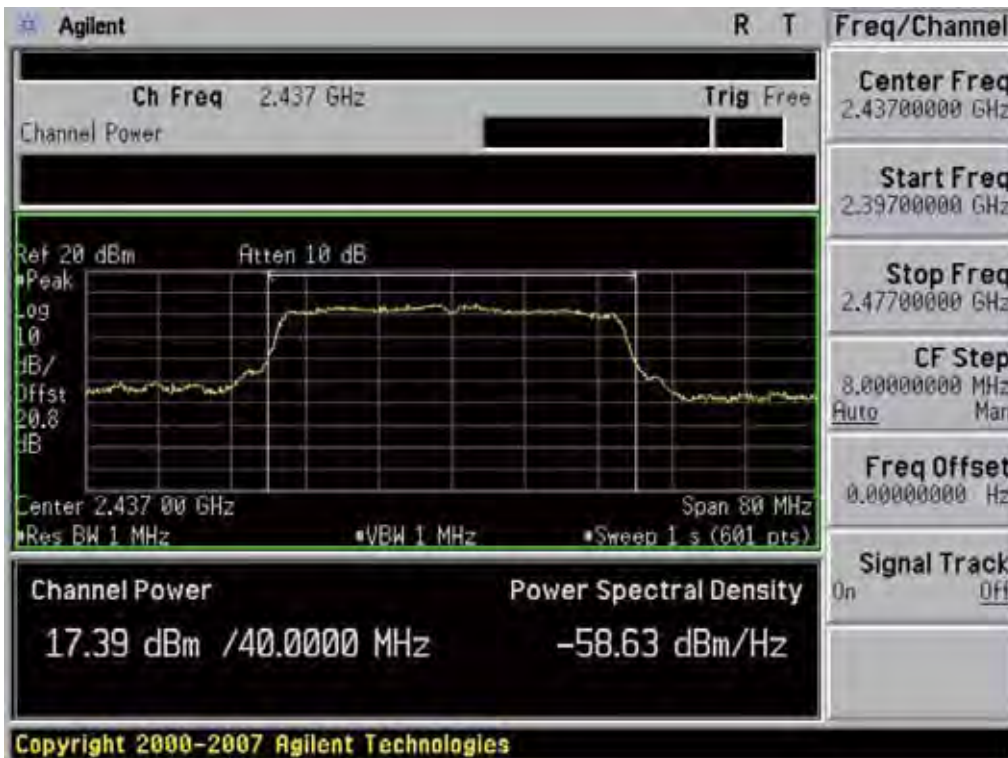


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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Conducted Output Power (802.11n-CH 6) 40.5 Mbps

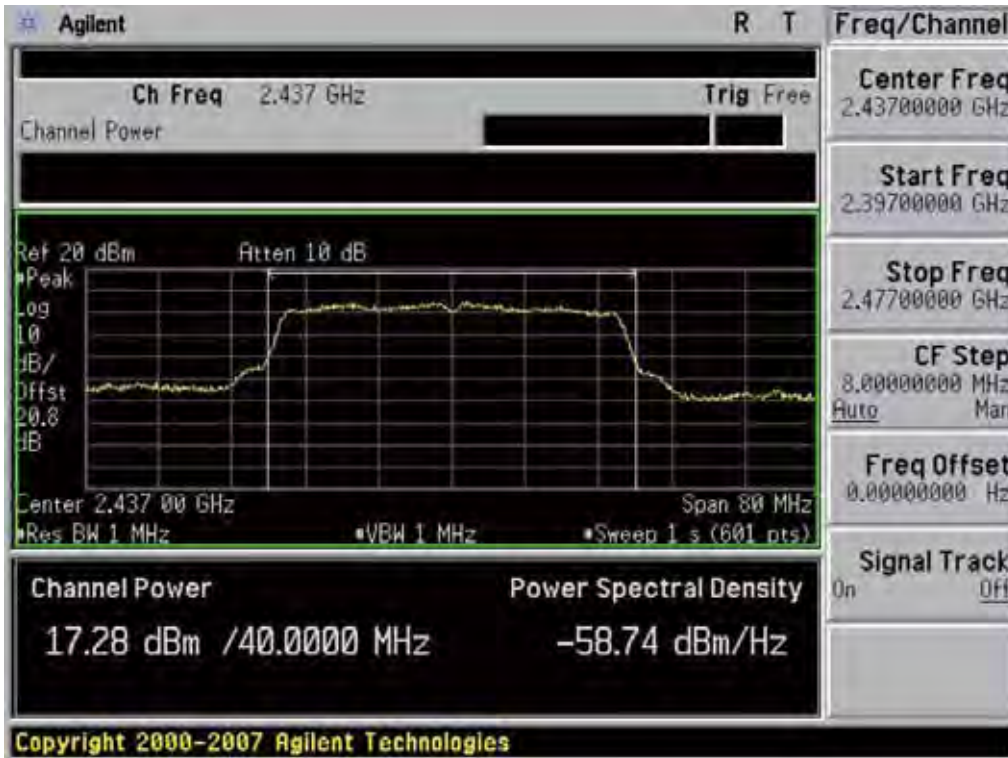


Conducted Output Power (802.11n-CH 6) 54 Mbps

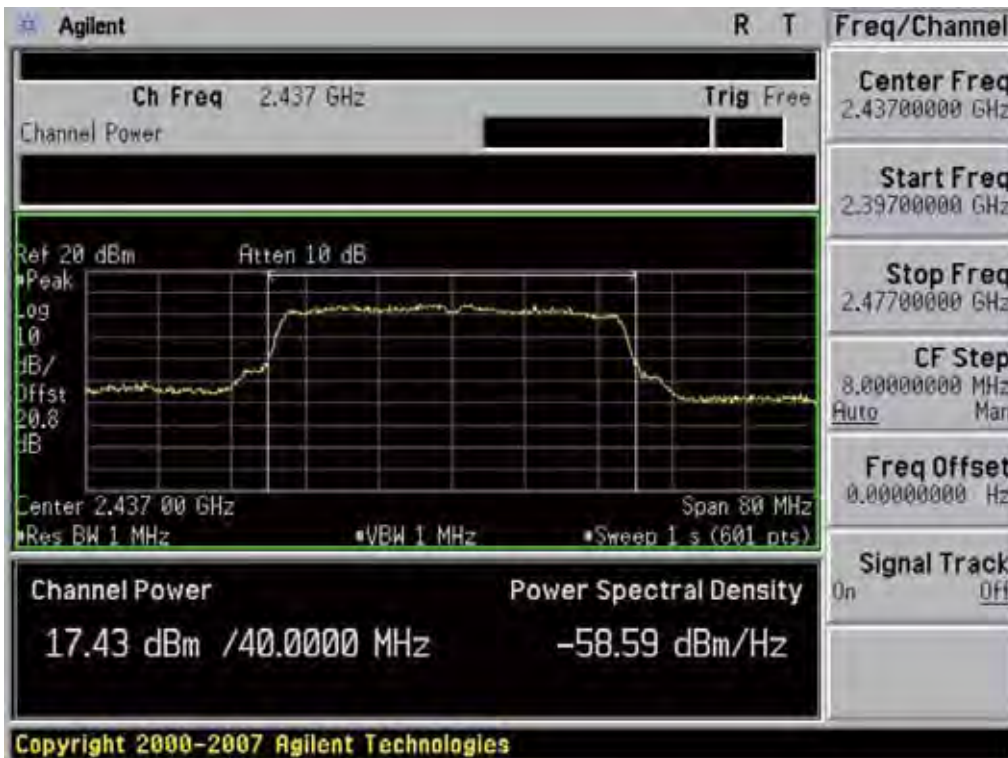


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Conducted Output Power (802.11n-CH 6) 81 Mbps

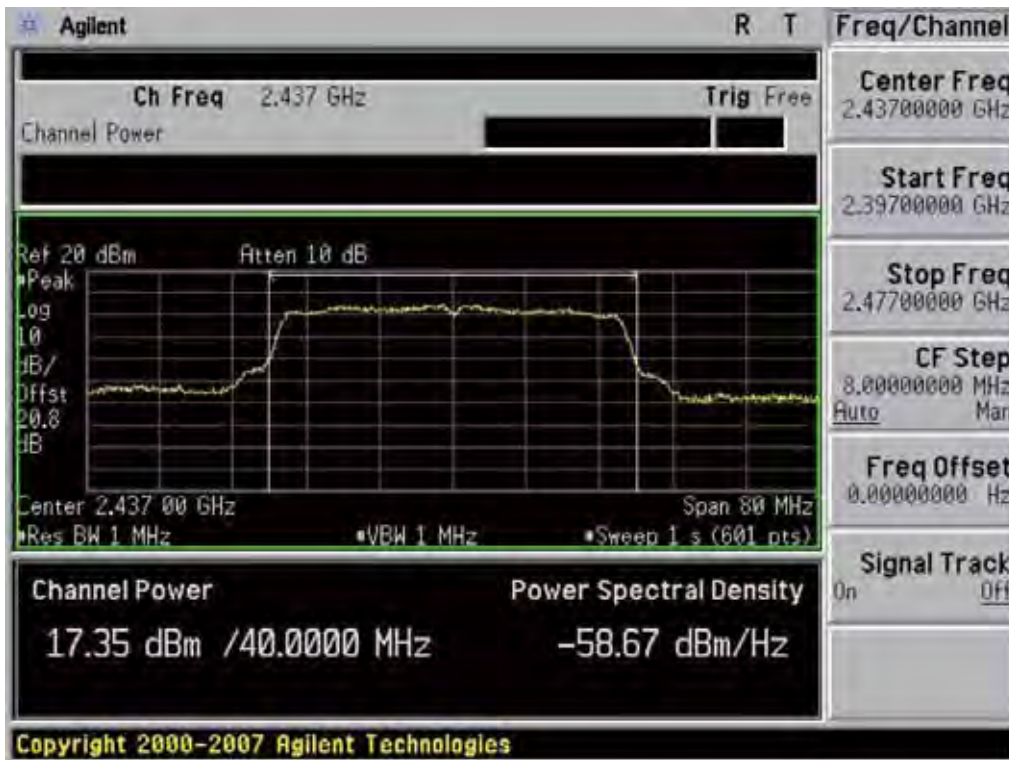


Conducted Output Power (802.11n-CH 6) 108 Mbps

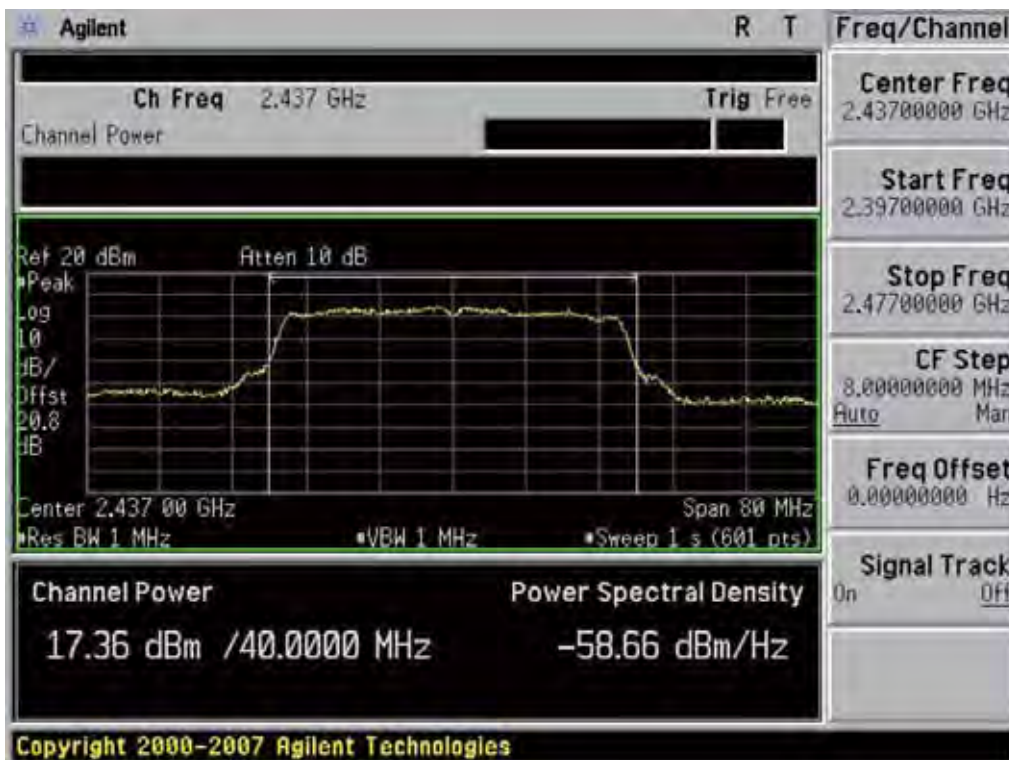


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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Conducted Output Power (802.11n-CH 6) 121.5 Mbps

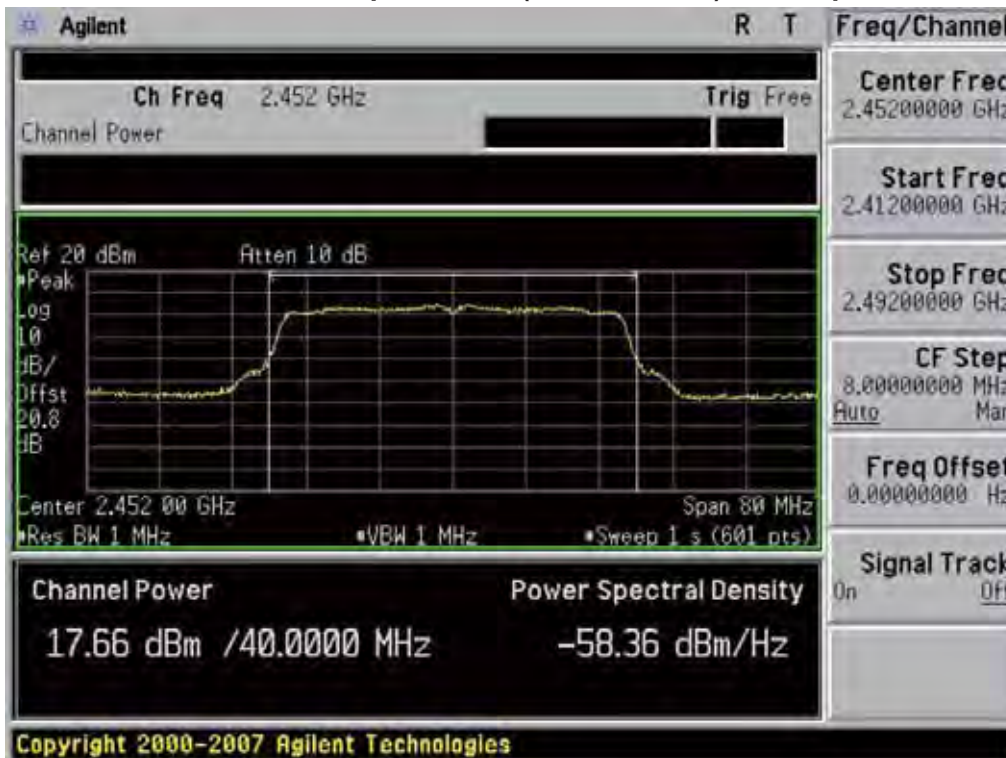


Conducted Output Power (802.11n-CH 6) 135 Mbps

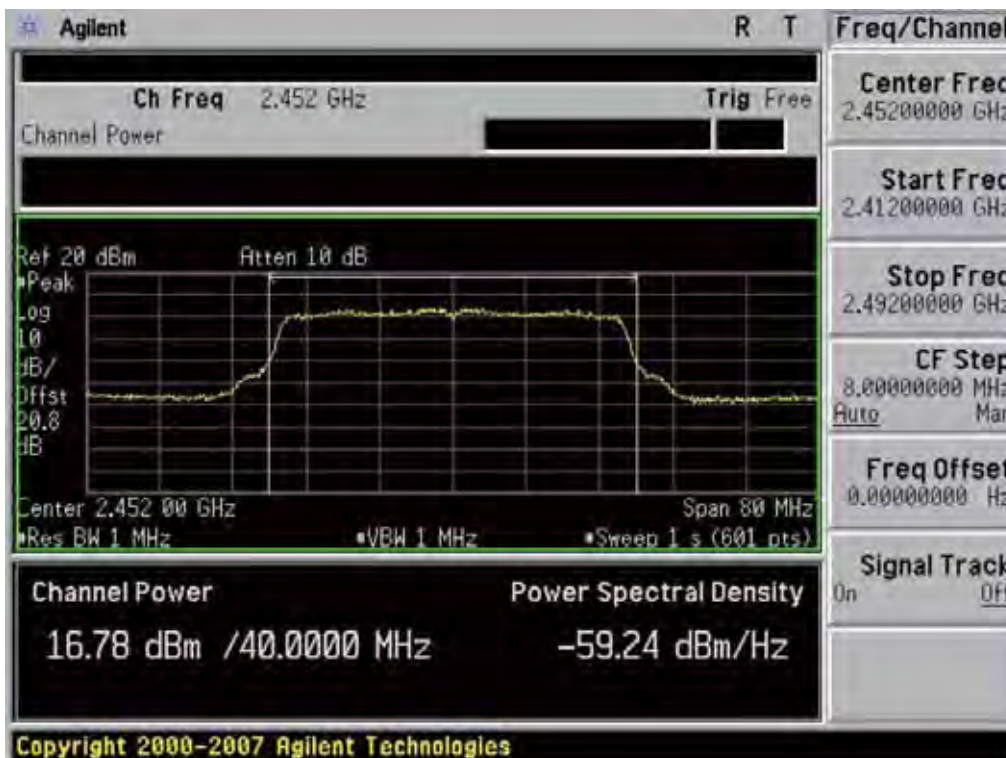


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
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Conducted Output Power (802.11n-CH 9) 13.5Mbps

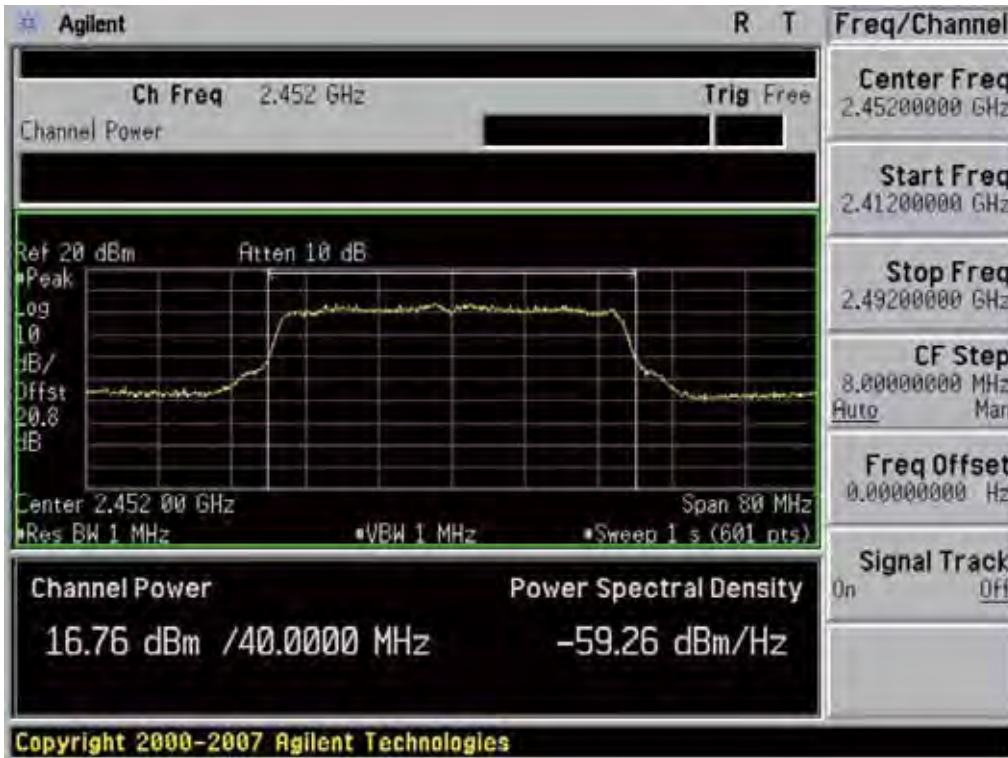


Conducted Output Power (802.11n-CH 9) 27 Mbps

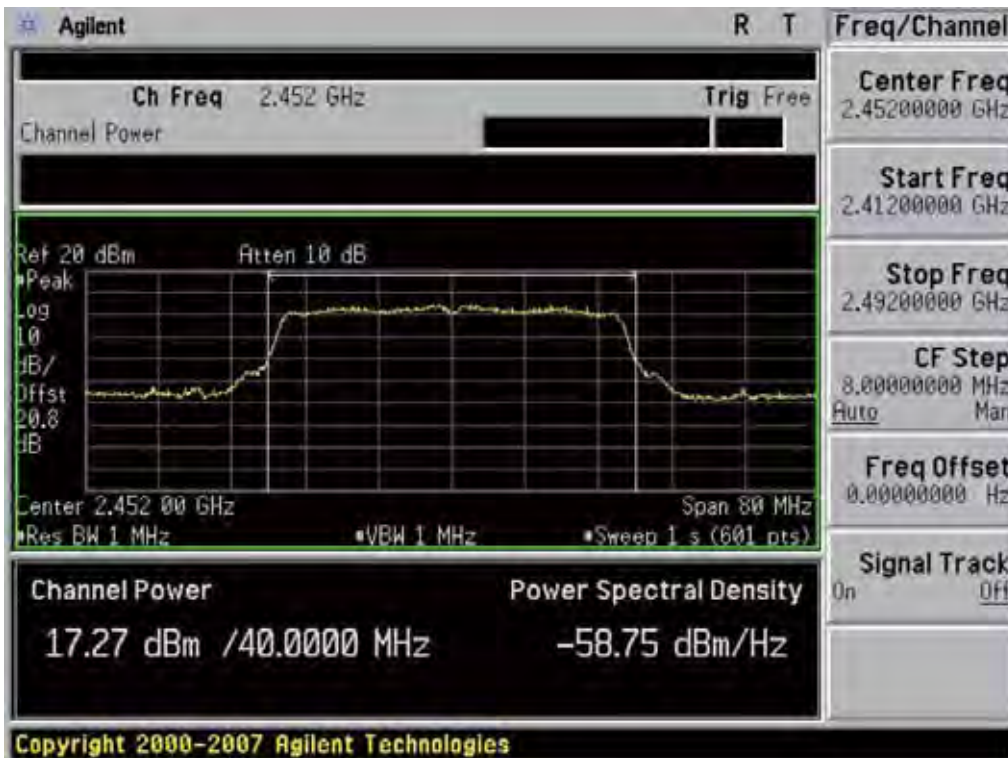


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

Conducted Output Power (802.11n-CH 9) 40.5 Mbps



Conducted Output Power (802.11n-CH 9) 54 Mbps

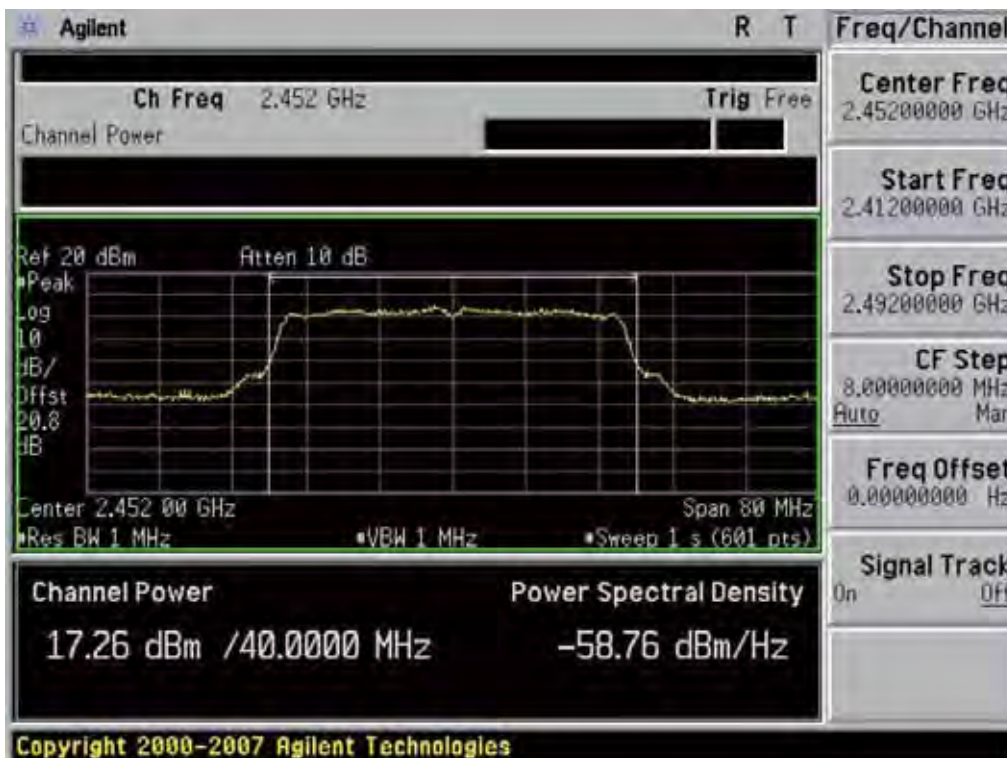


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| FCC PT.15.247 TEST REPORT | FCC & IC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1110FR01-3 | Date of Issue: October 26, 2011 | EUT Type: WI-FI Module | FCC ID: BEJTWFBM003D | IC: 2703H-TWFBM003D |

Conducted Output Power (802.11n-CH 9) 81 Mbps

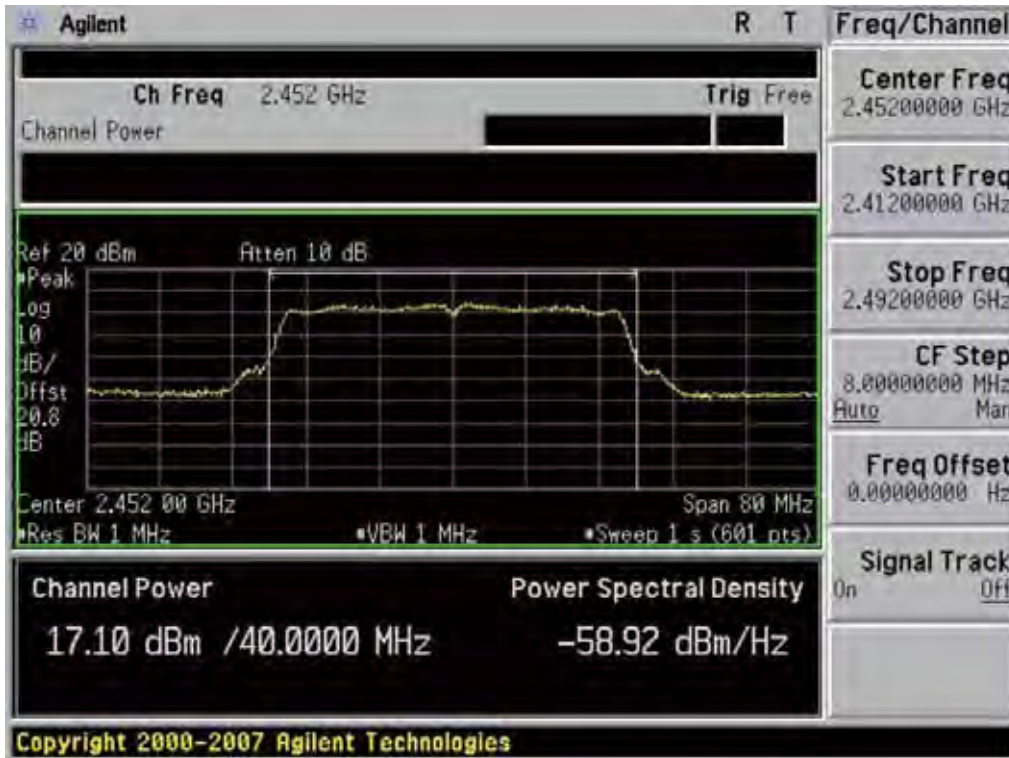


Conducted Output Power (802.11n-CH 9) 108 Mbps

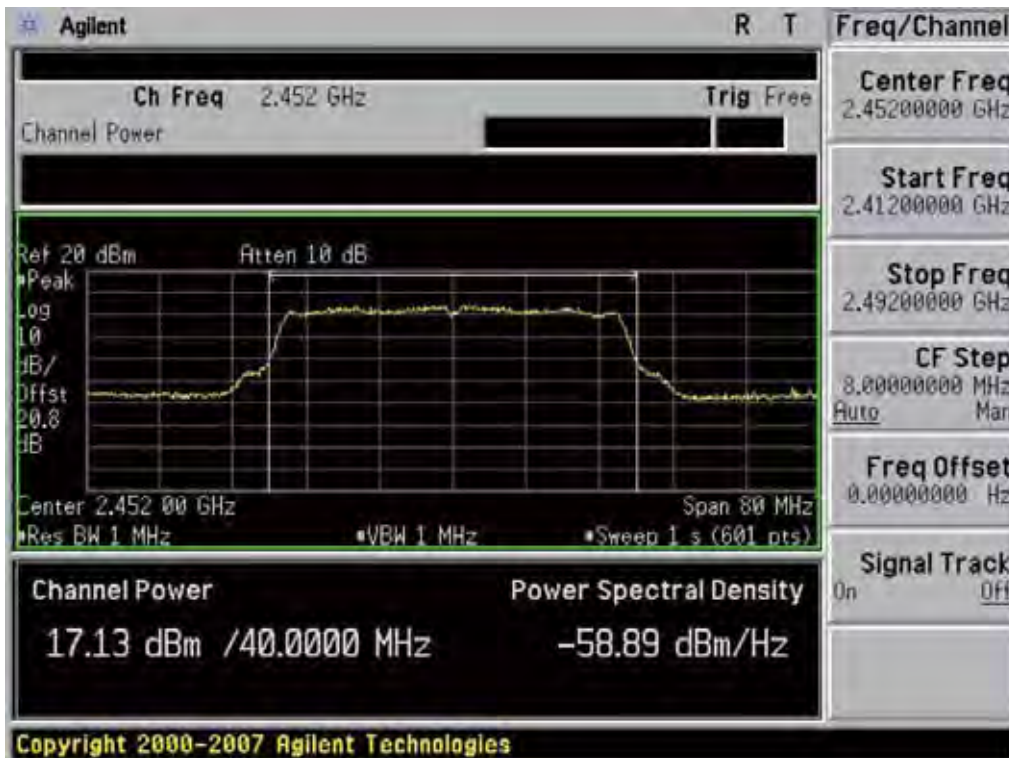


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Conducted Output Power (802.11n-CH 9) 121.5 Mbps



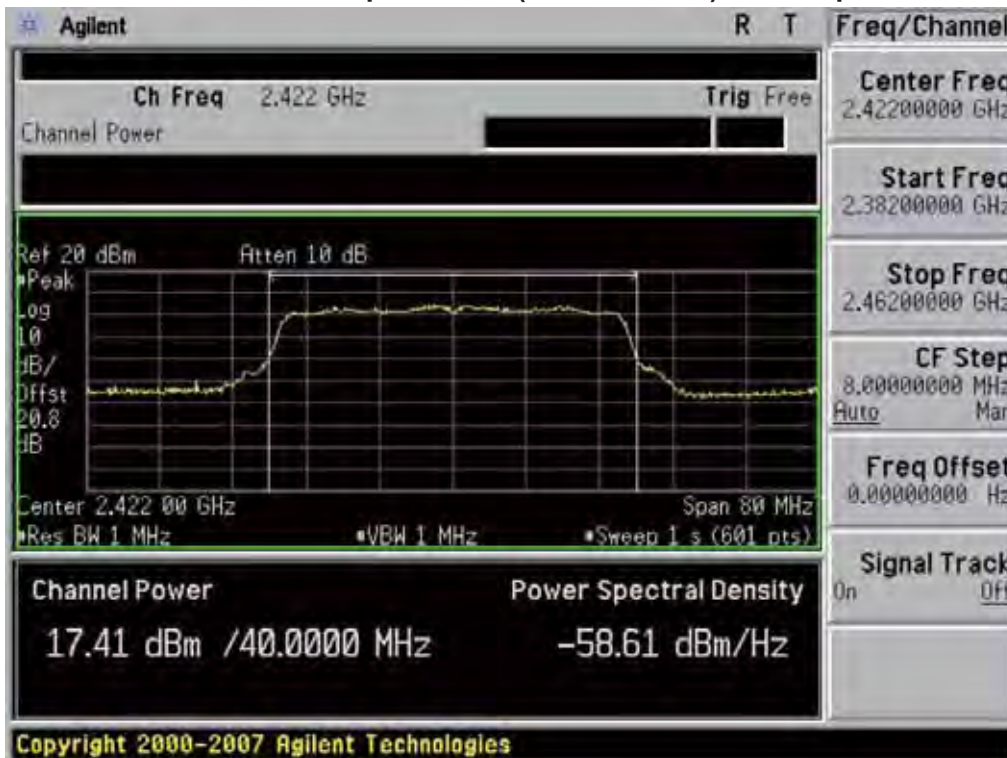
Conducted Output Power (802.11n-CH 9) 135 Mbps



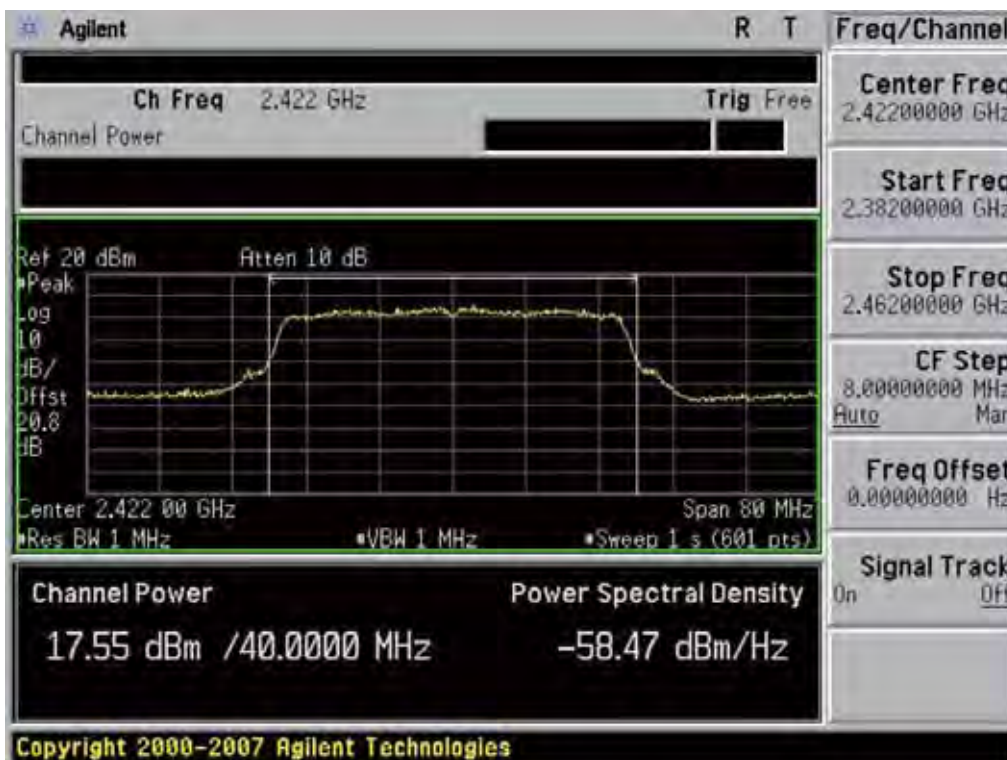
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RESULT PLOTS_Ant.1:_40 MHz BW

Conducted Output Power (802.11n-CH 3) 13.5 Mbps



Conducted Output Power (802.11n-CH 3) 27 Mbps



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|-----------------------------------|------------------------------------|------------------------|-------------------------|--|
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