

7. Occupied Bandwidth

7.1. Test Equipment

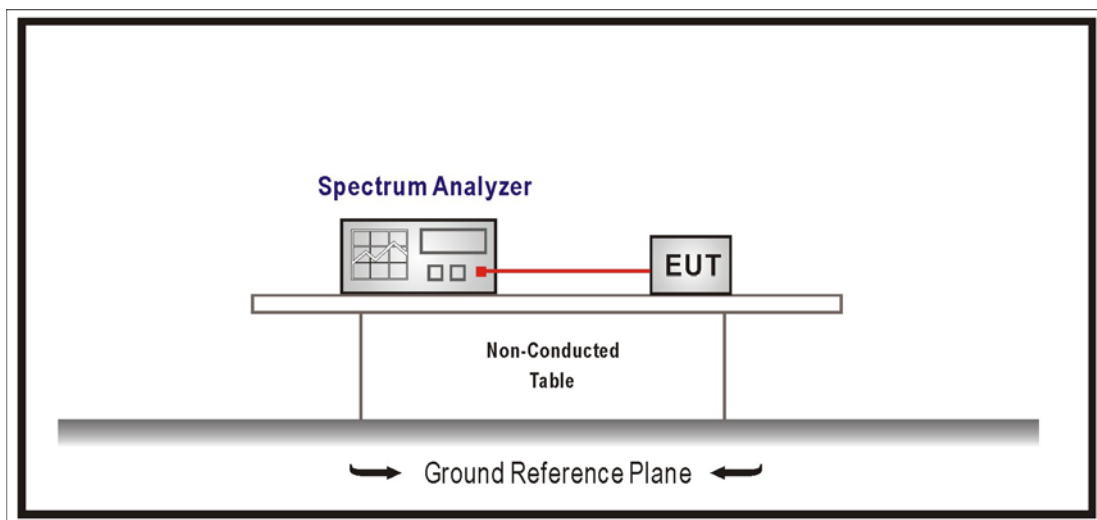
The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Oct. 2012 KDB5580744 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1% of EBW, Span greater than RBW.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

7.6. Uncertainty

The measurement uncertainty is defined as $\pm 150\text{Hz}$

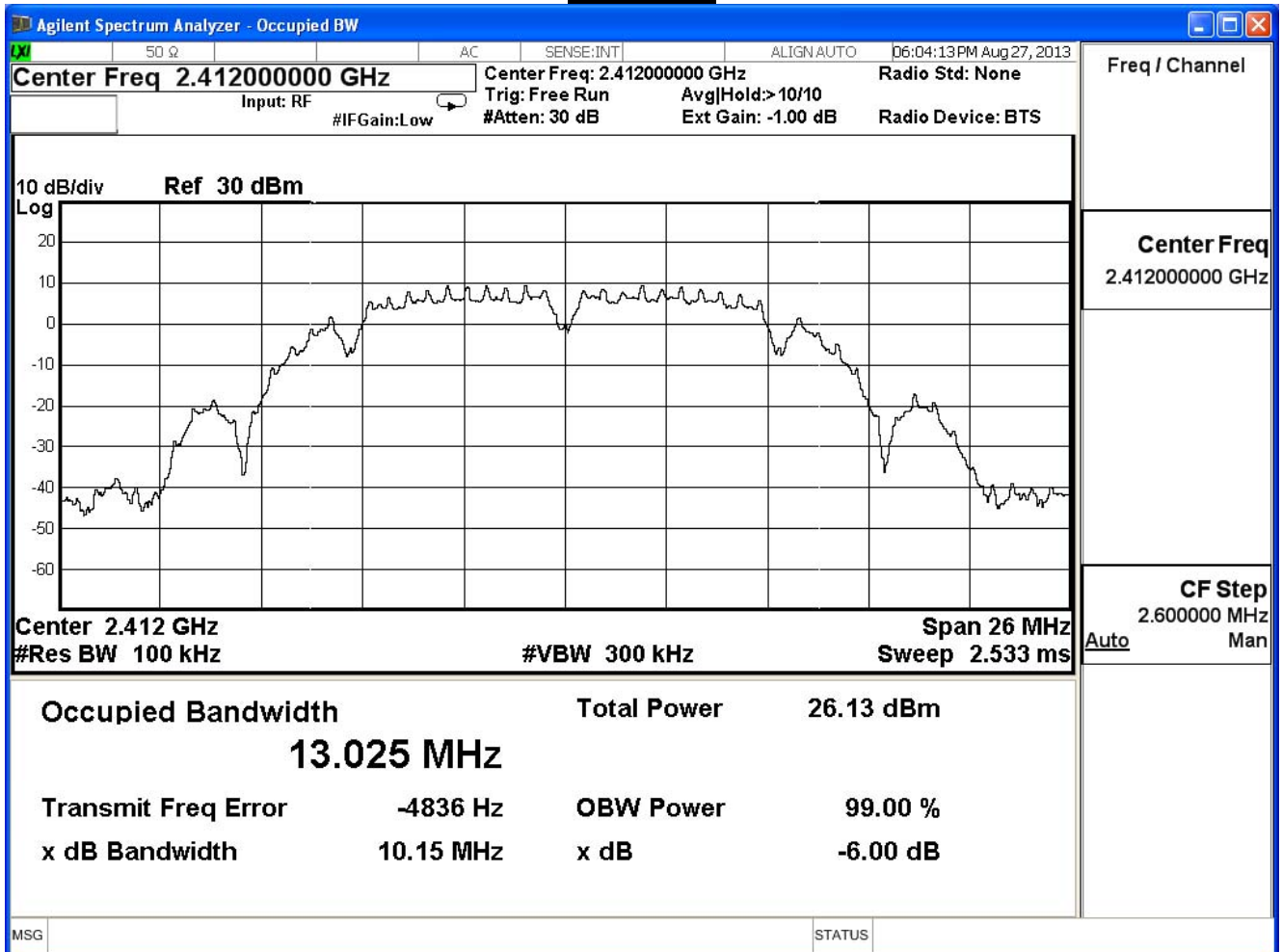
7.7. Test Result

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

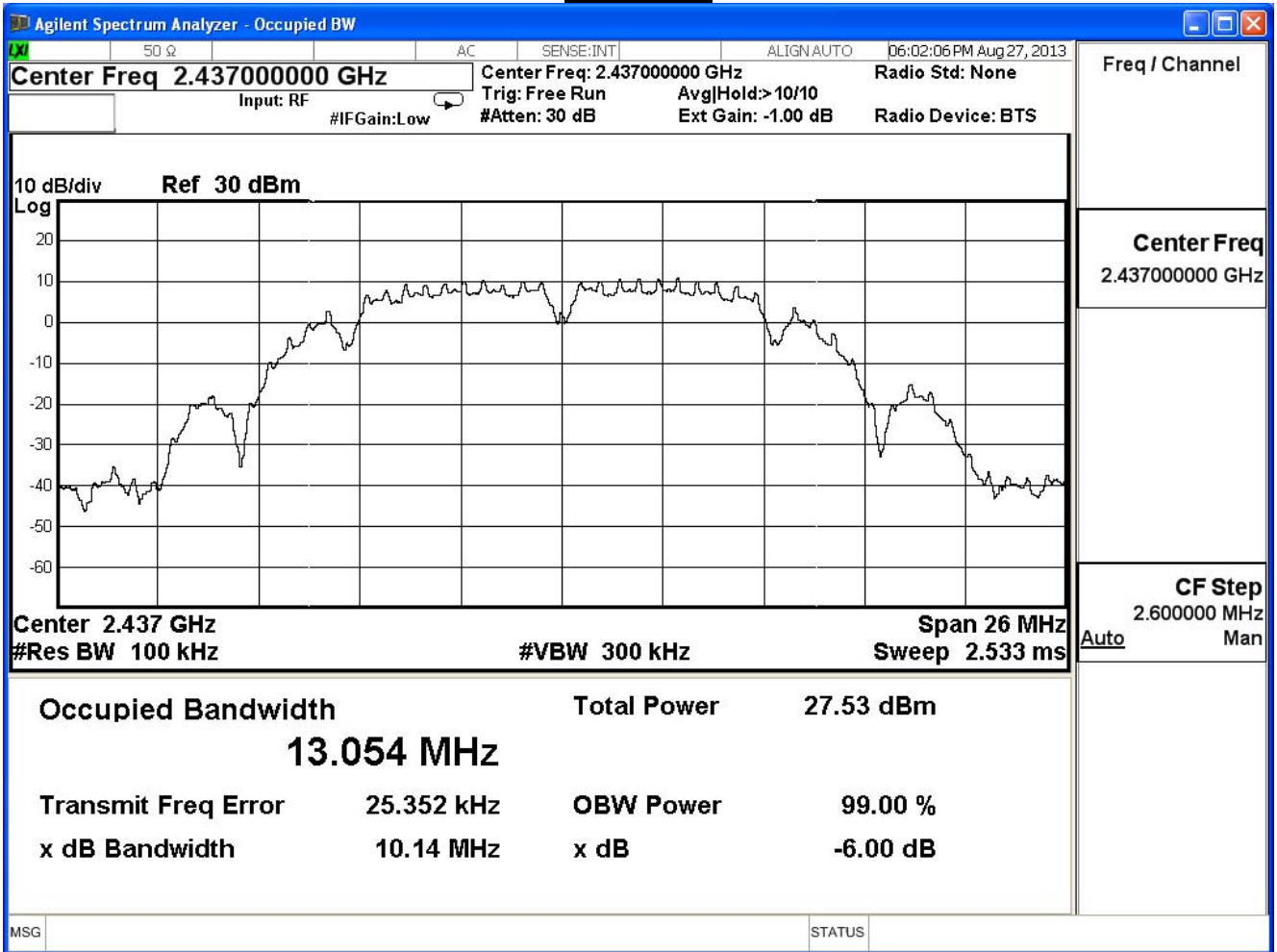
802.11 b (ANT0)

Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	10.15	≥ 0.5	Pass
6	2437	10.14	≥ 0.5	Pass
11	2462	10.13	≥ 0.5	Pass

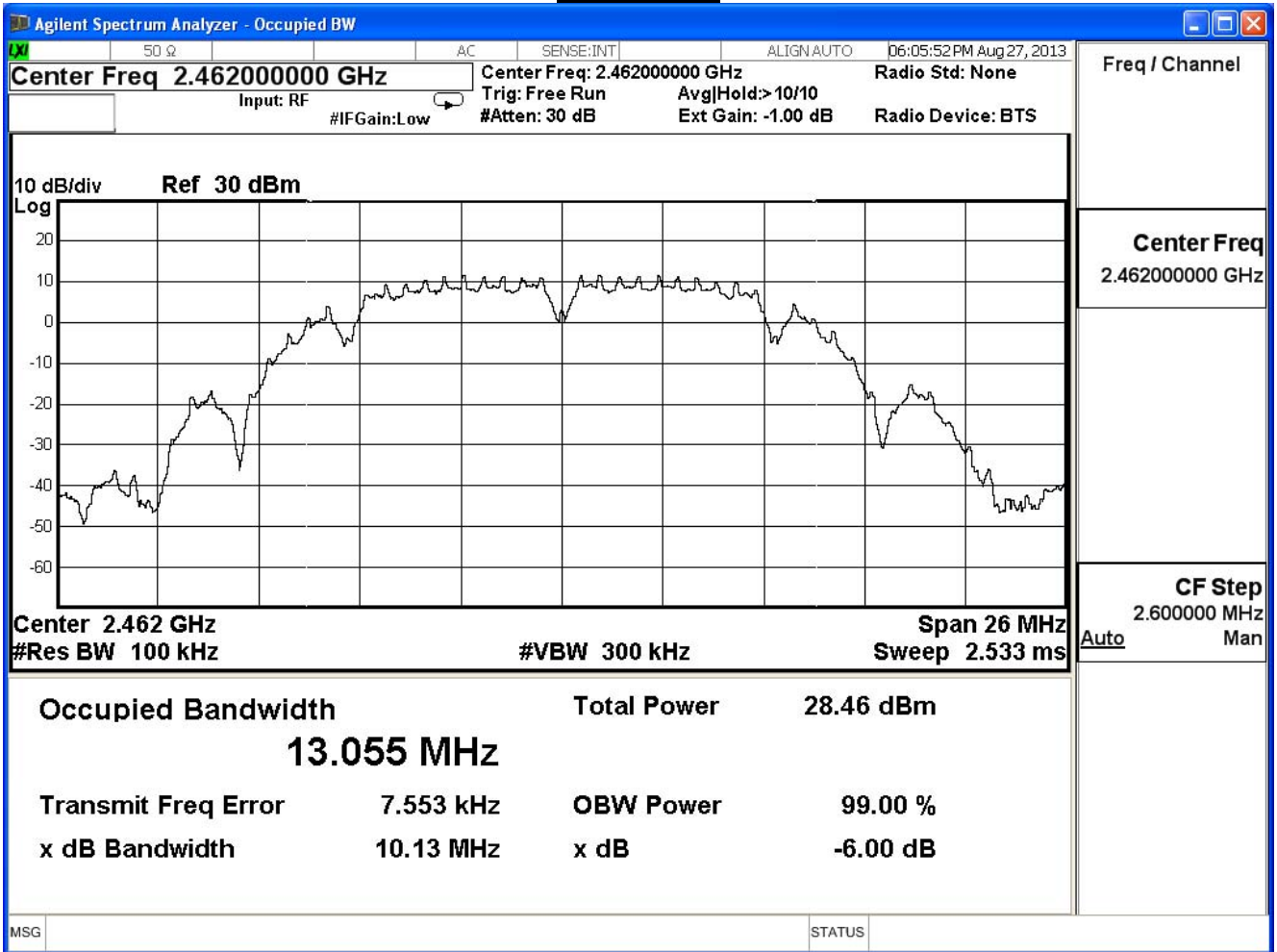
Channel 1



Channel 6



Channel 11

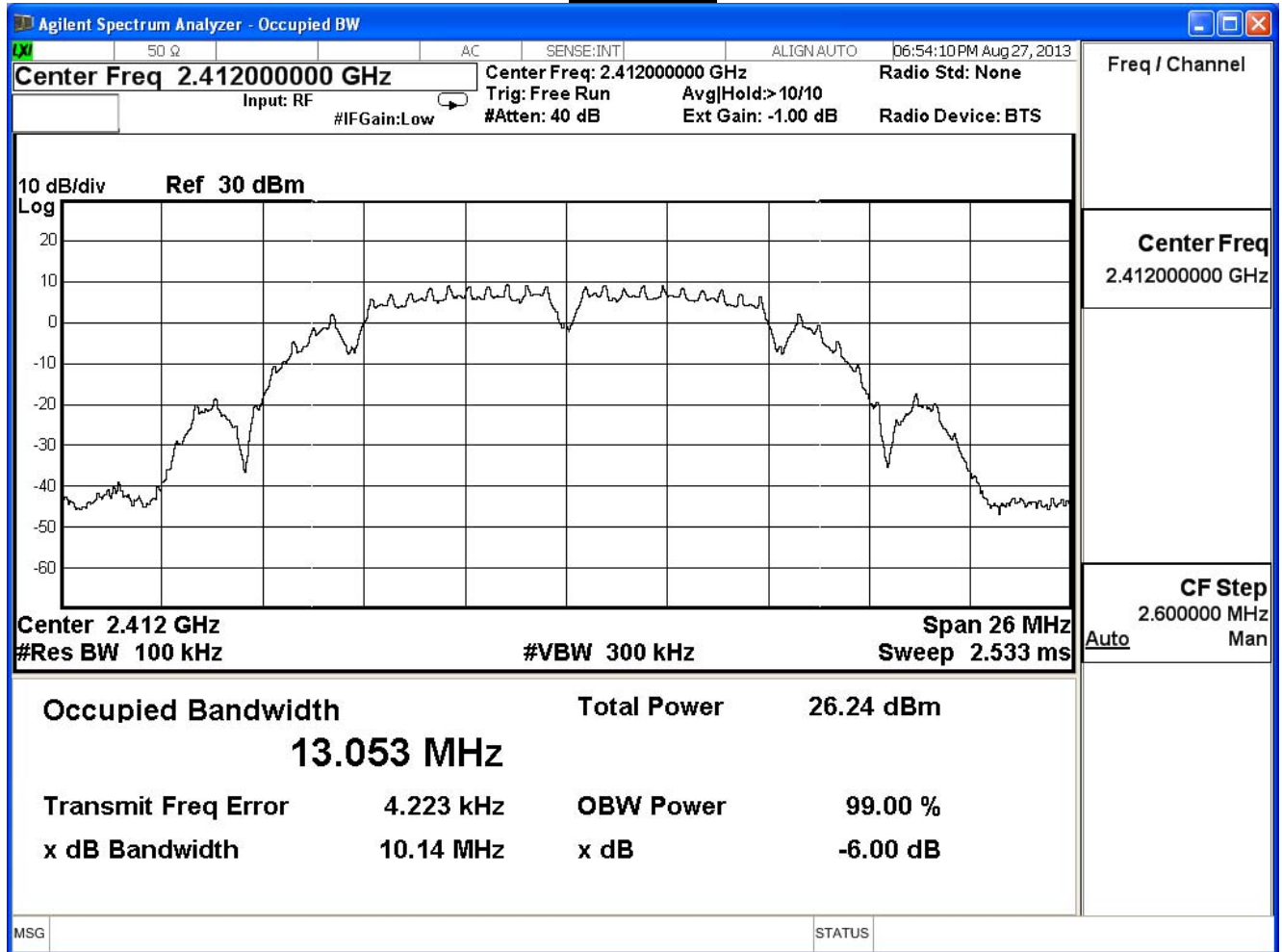


Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

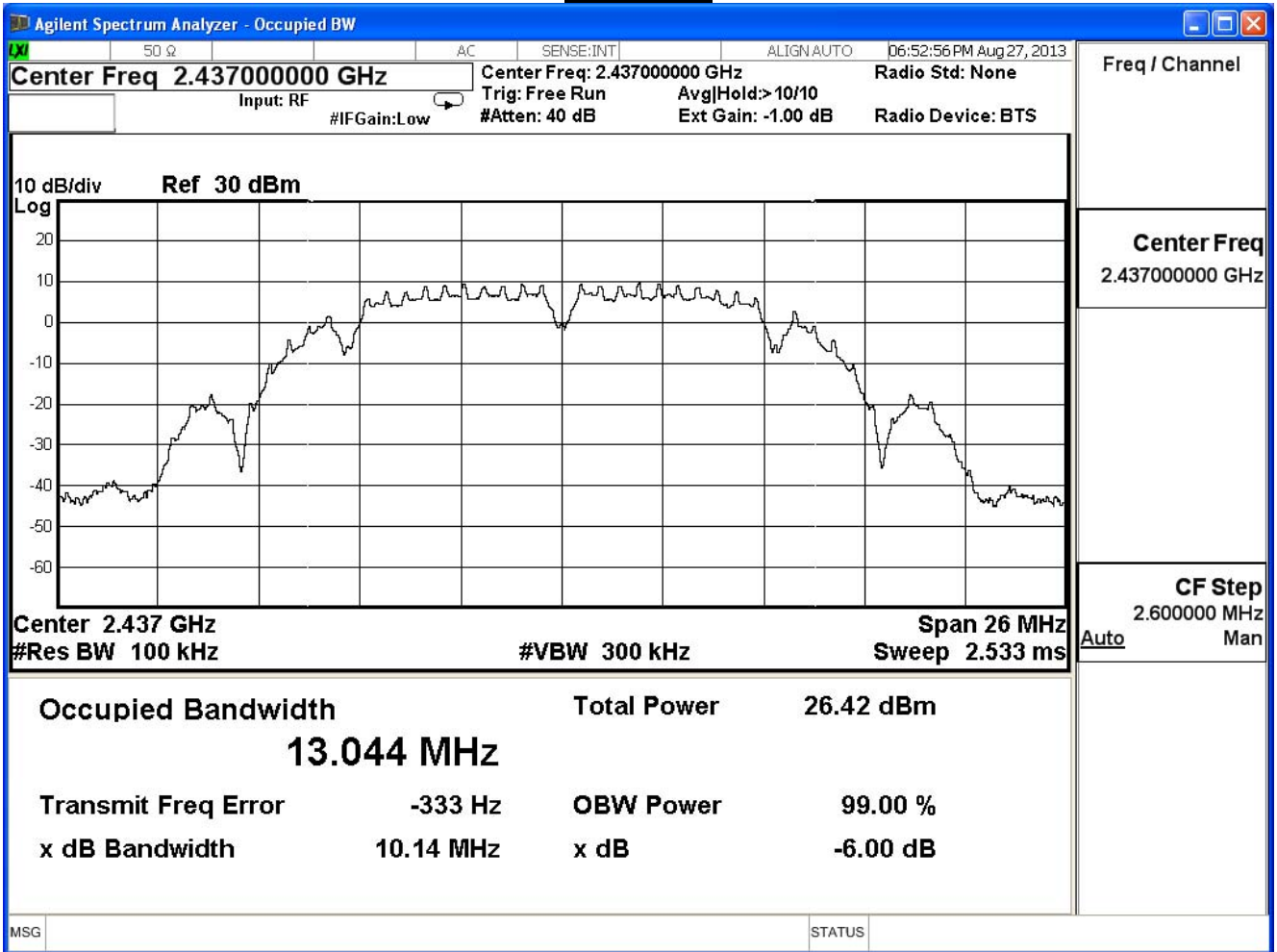
802.11 b (ANT1)

Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	10.14	≥ 0.5	Pass
6	2437	10.14	≥ 0.5	Pass
11	2462	10.13	≥ 0.5	Pass

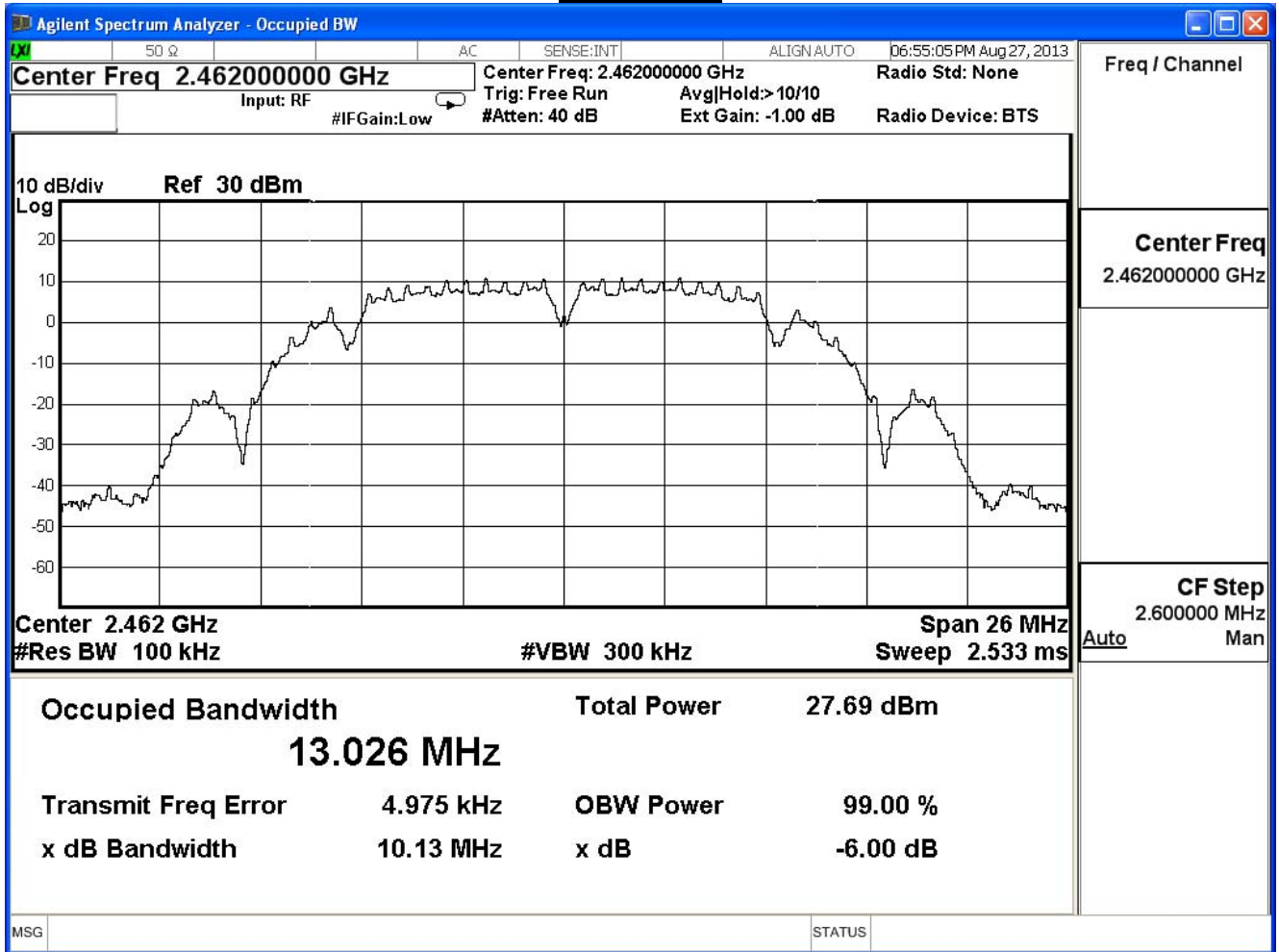
Channel 1



Channel 6



Channel 11

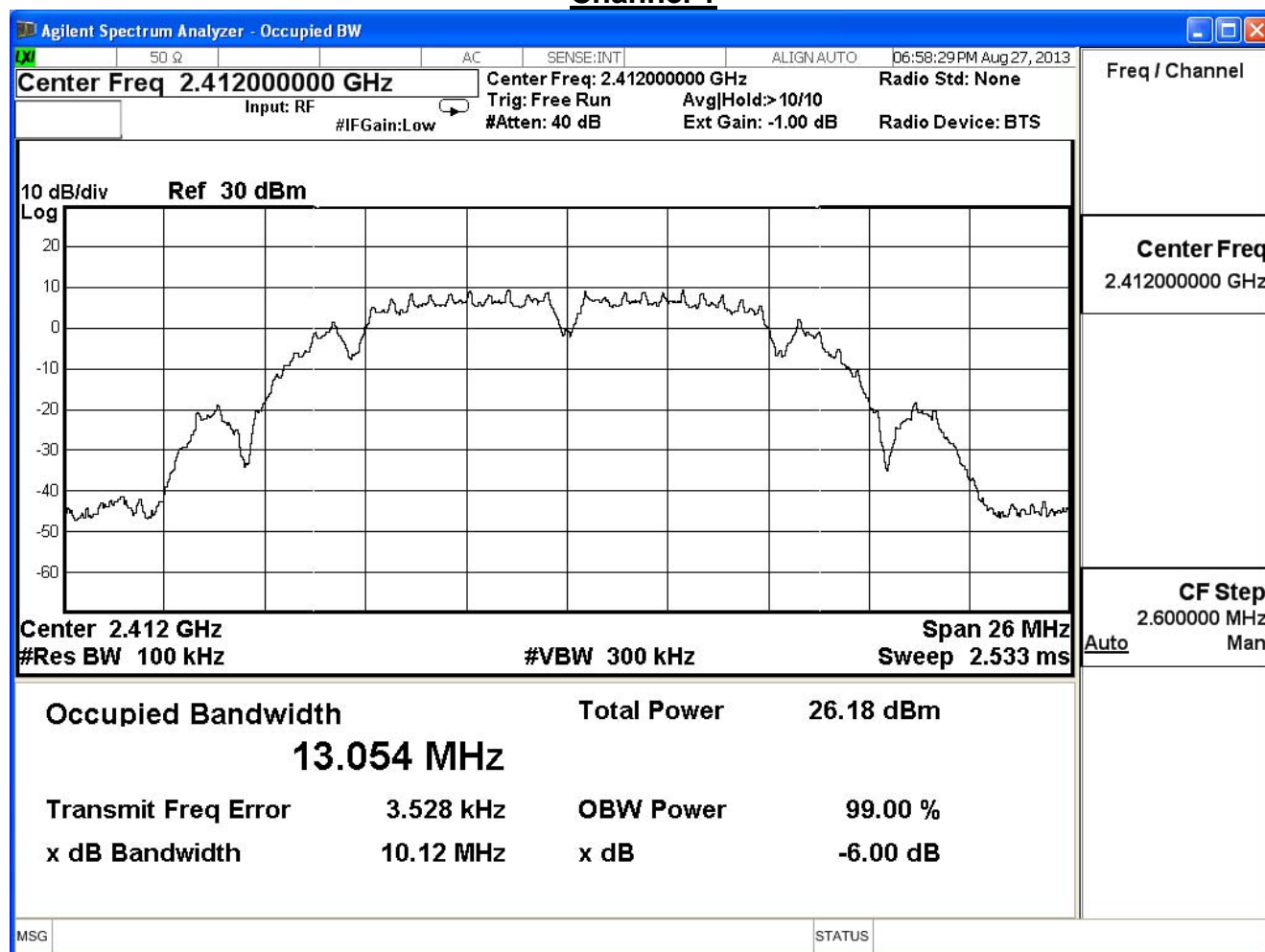


Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

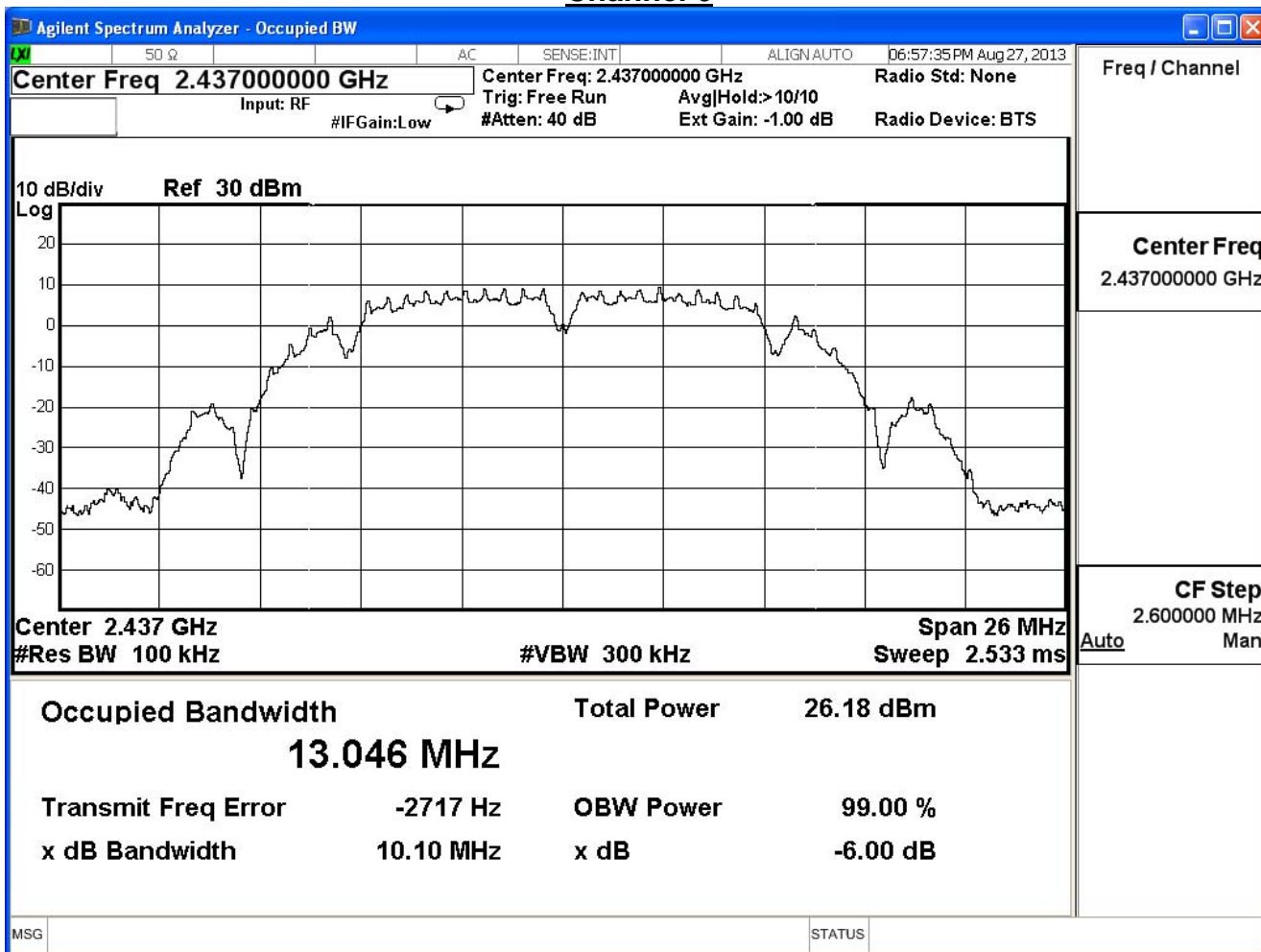
802.11 b (ANT2)

Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	10.12	≥ 0.5	Pass
6	2437	10.10	≥ 0.5	Pass
11	2462	10.13	≥ 0.5	Pass

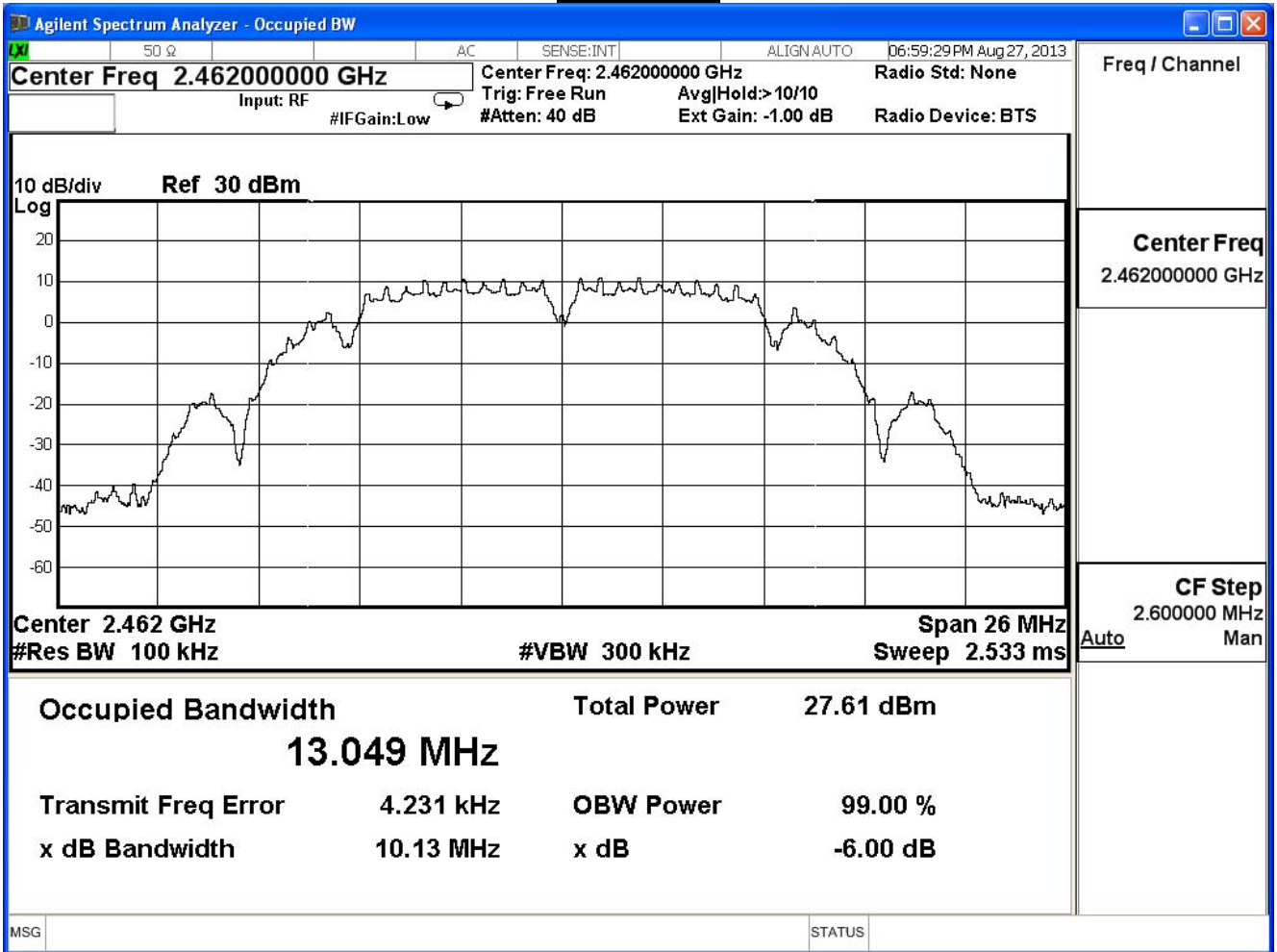
Channel 1



Channel 6



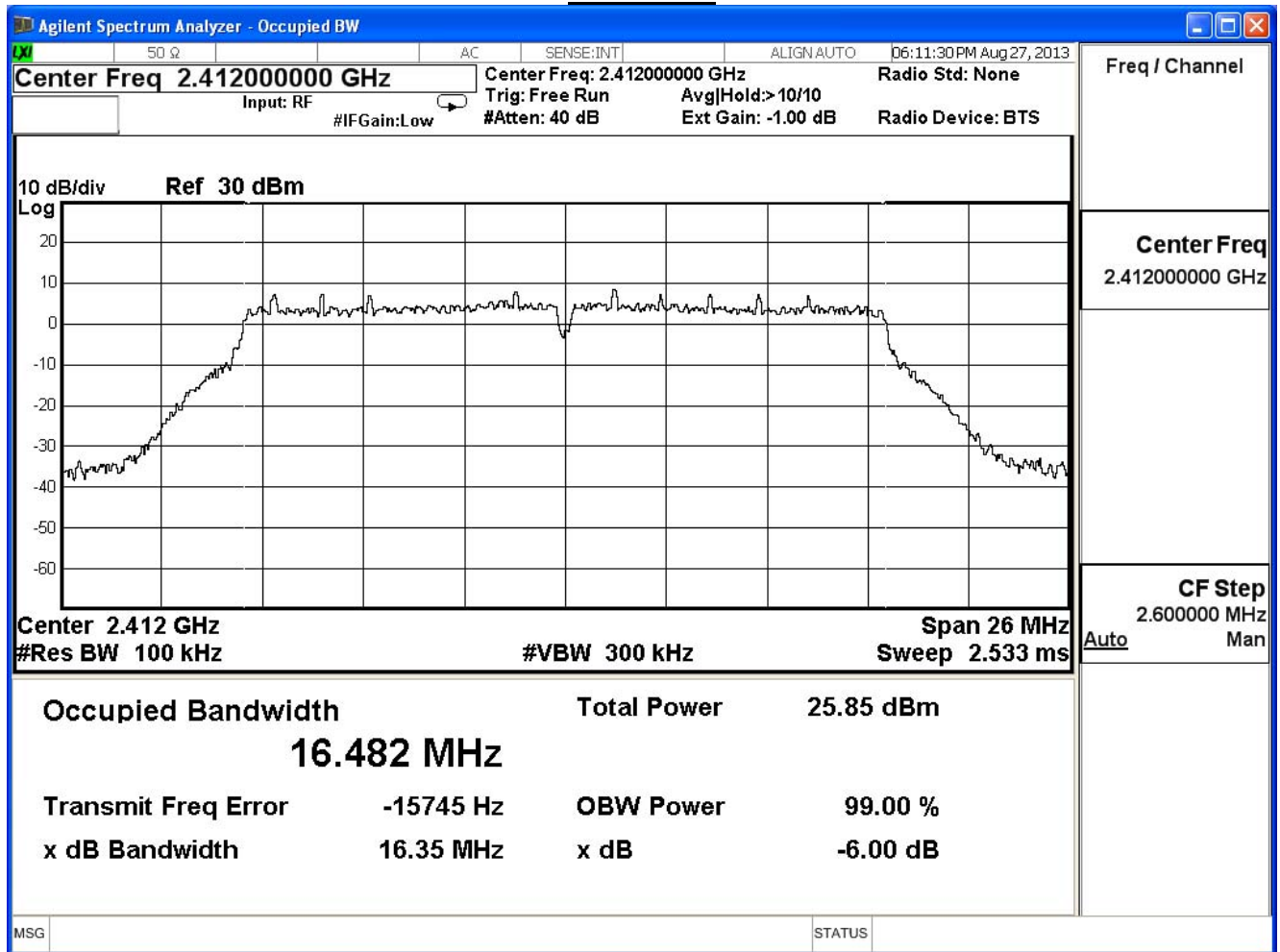
Channel 11



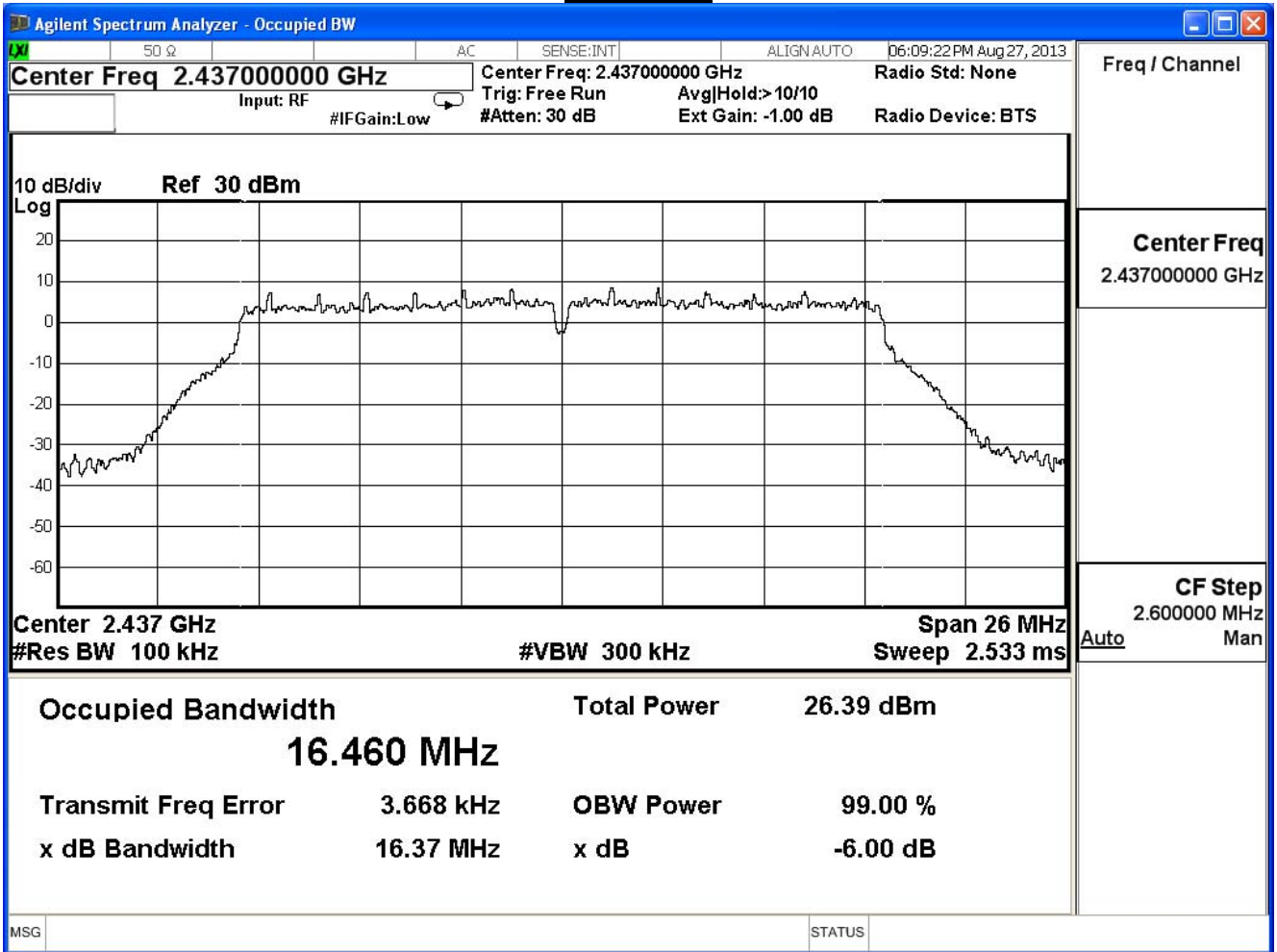
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11g (ANT0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	16.35	≥ 0.5	Pass
6	2437	16.37	≥ 0.5	Pass
11	2462	16.36	≥ 0.5	Pass

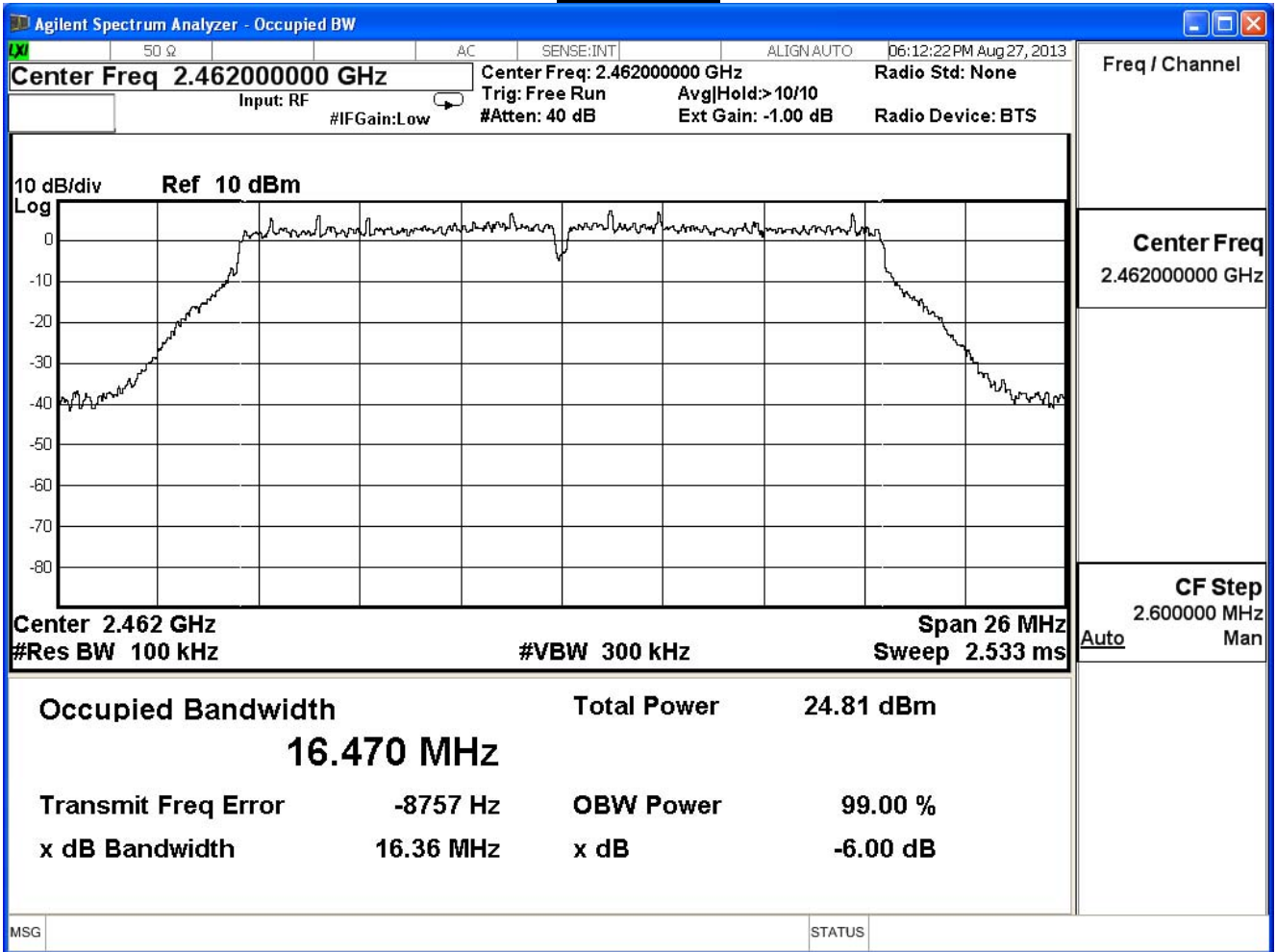
Channel 1



Channel 6



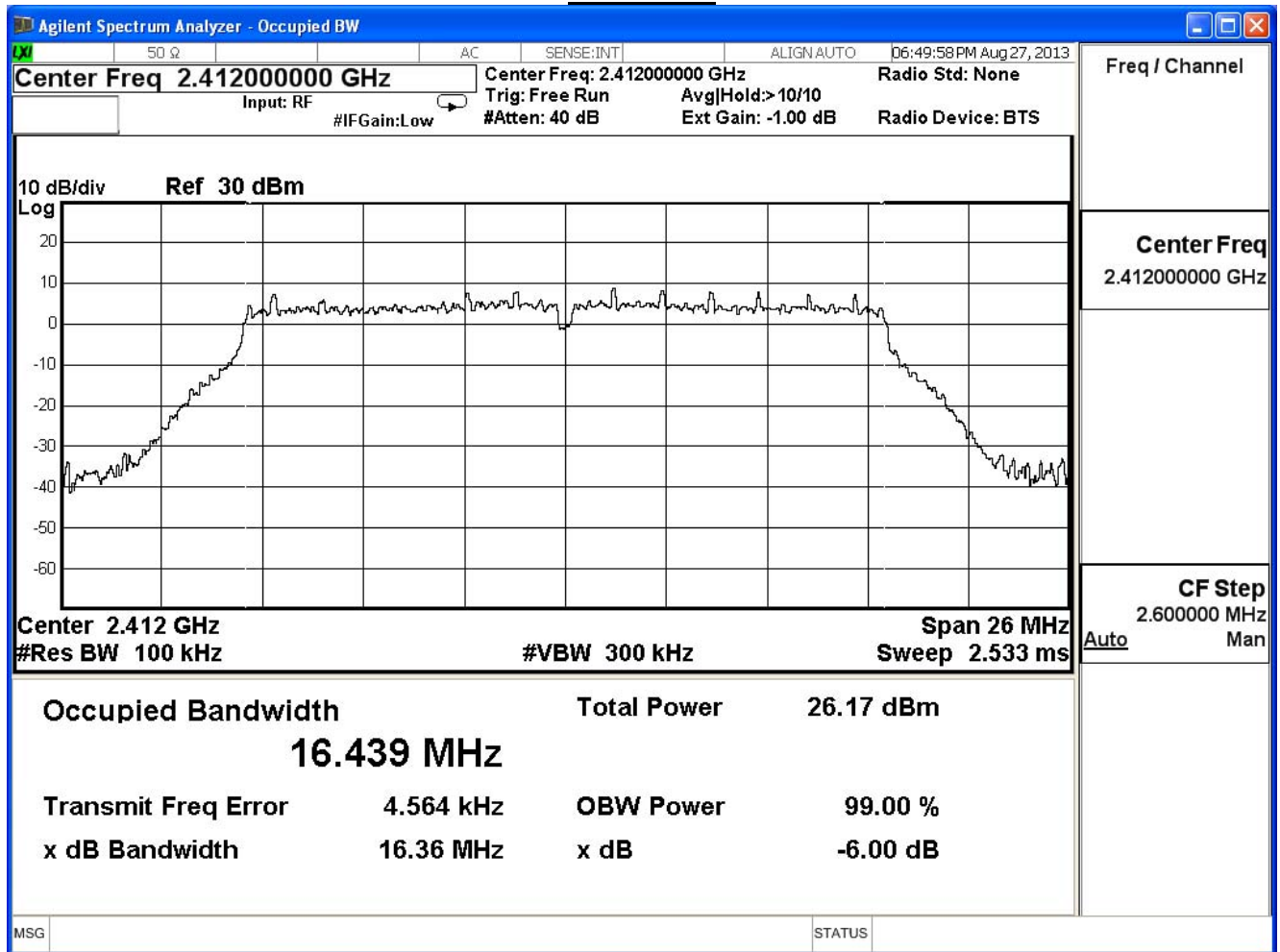
Channel 11



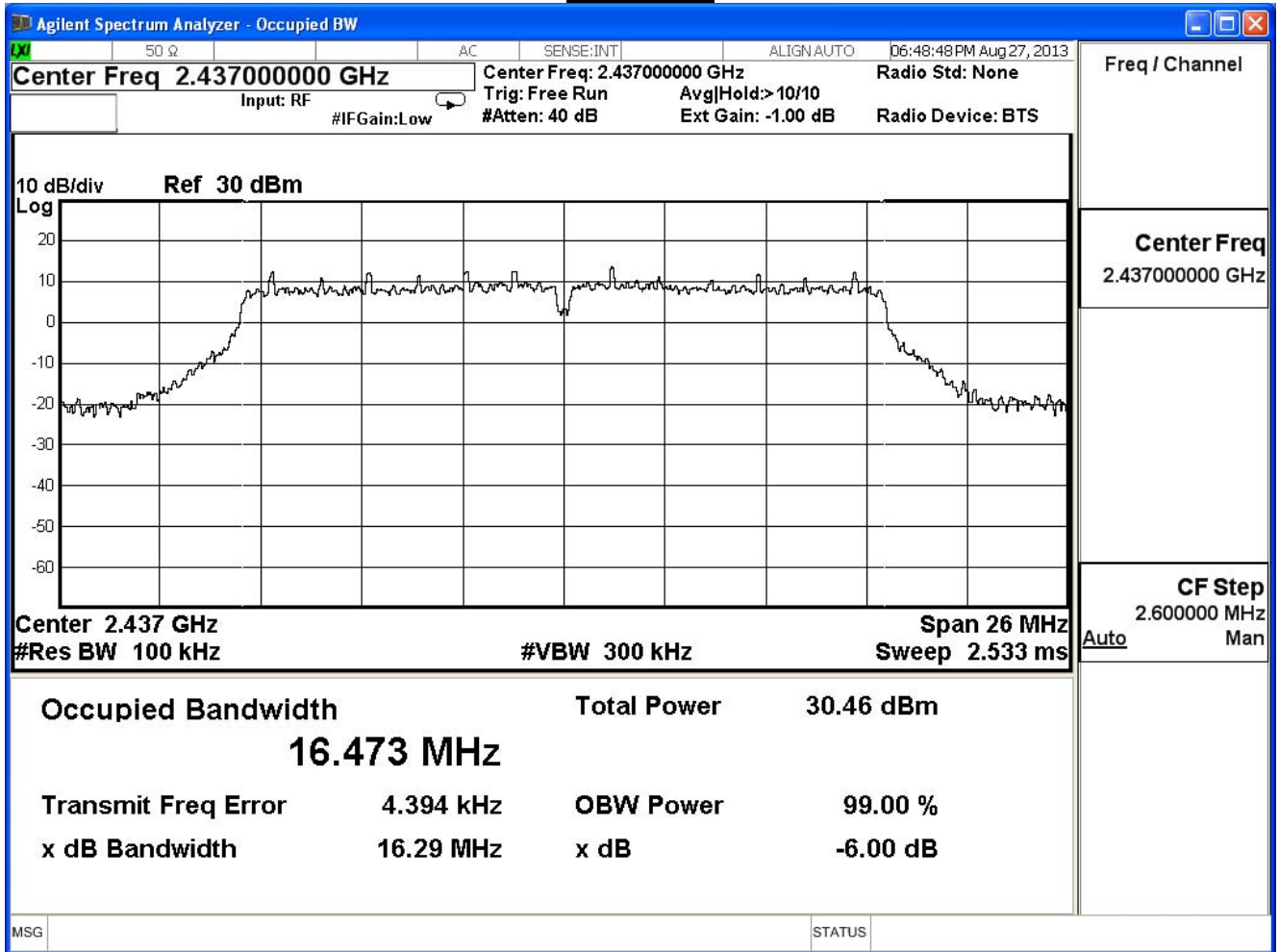
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11g (ANT1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	16.36	≥ 0.5	Pass
6	2437	16.29	≥ 0.5	Pass
11	2462	16.37	≥ 0.5	Pass

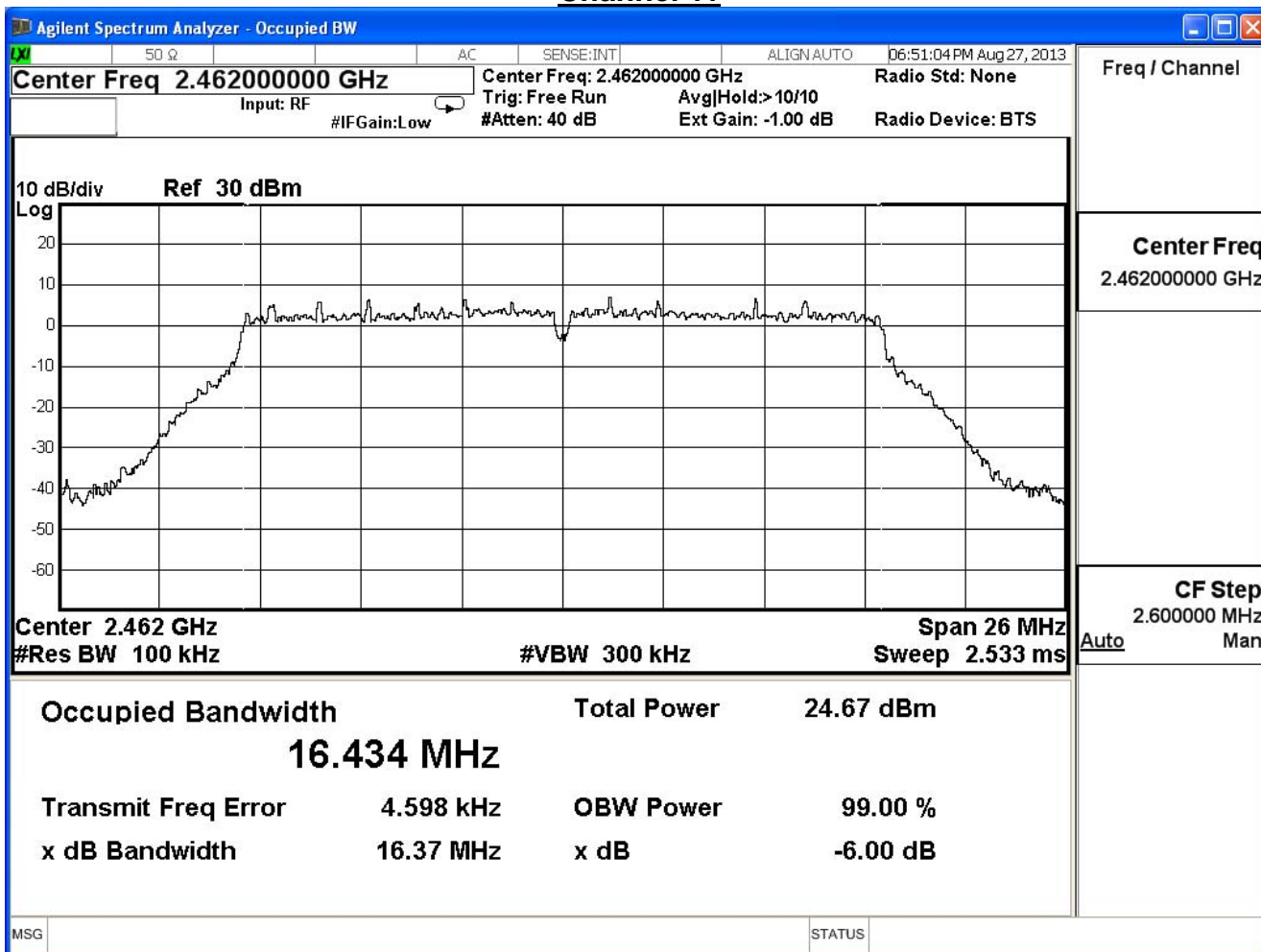
Channel 1



Channel 6



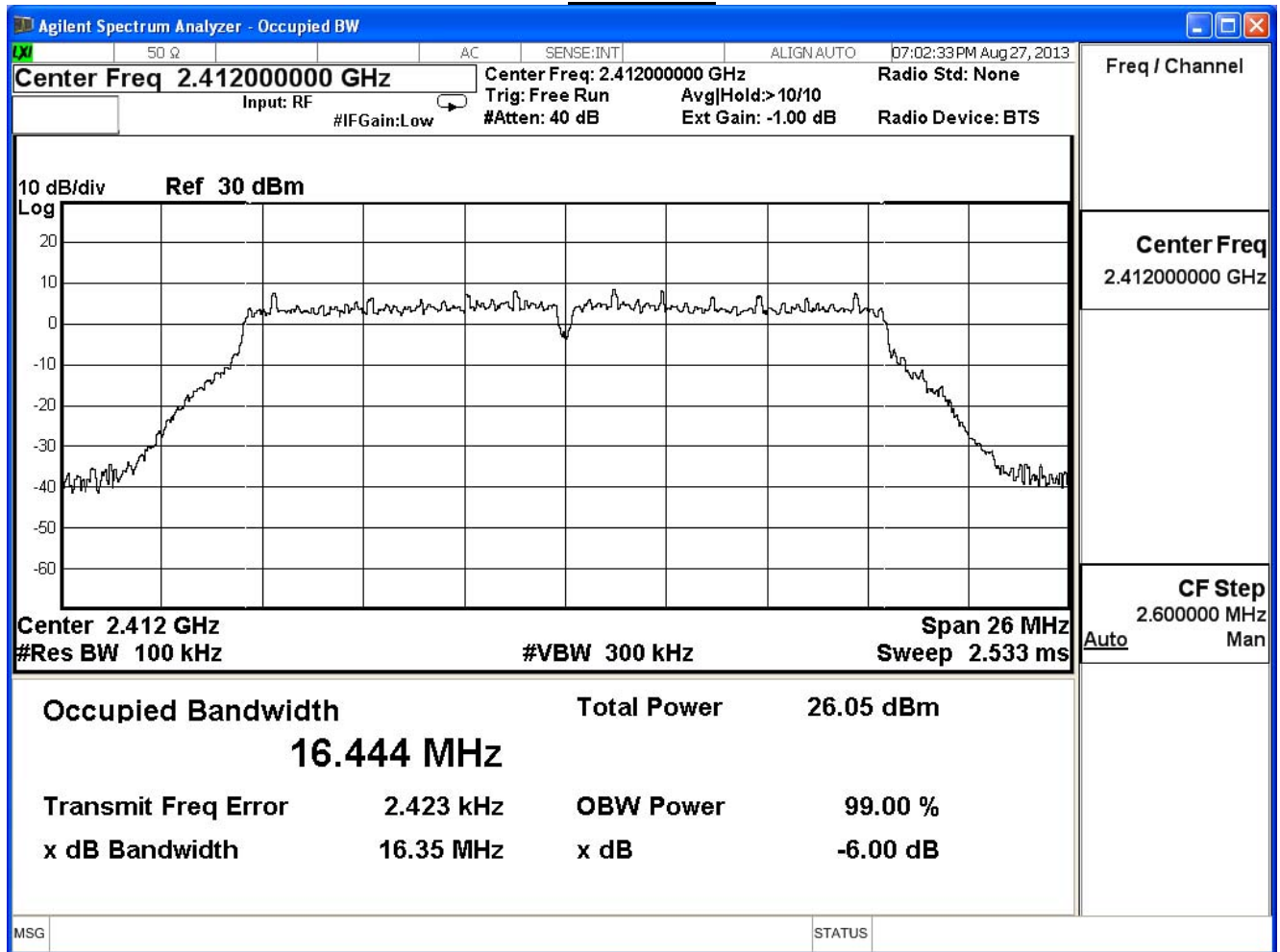
Channel 11



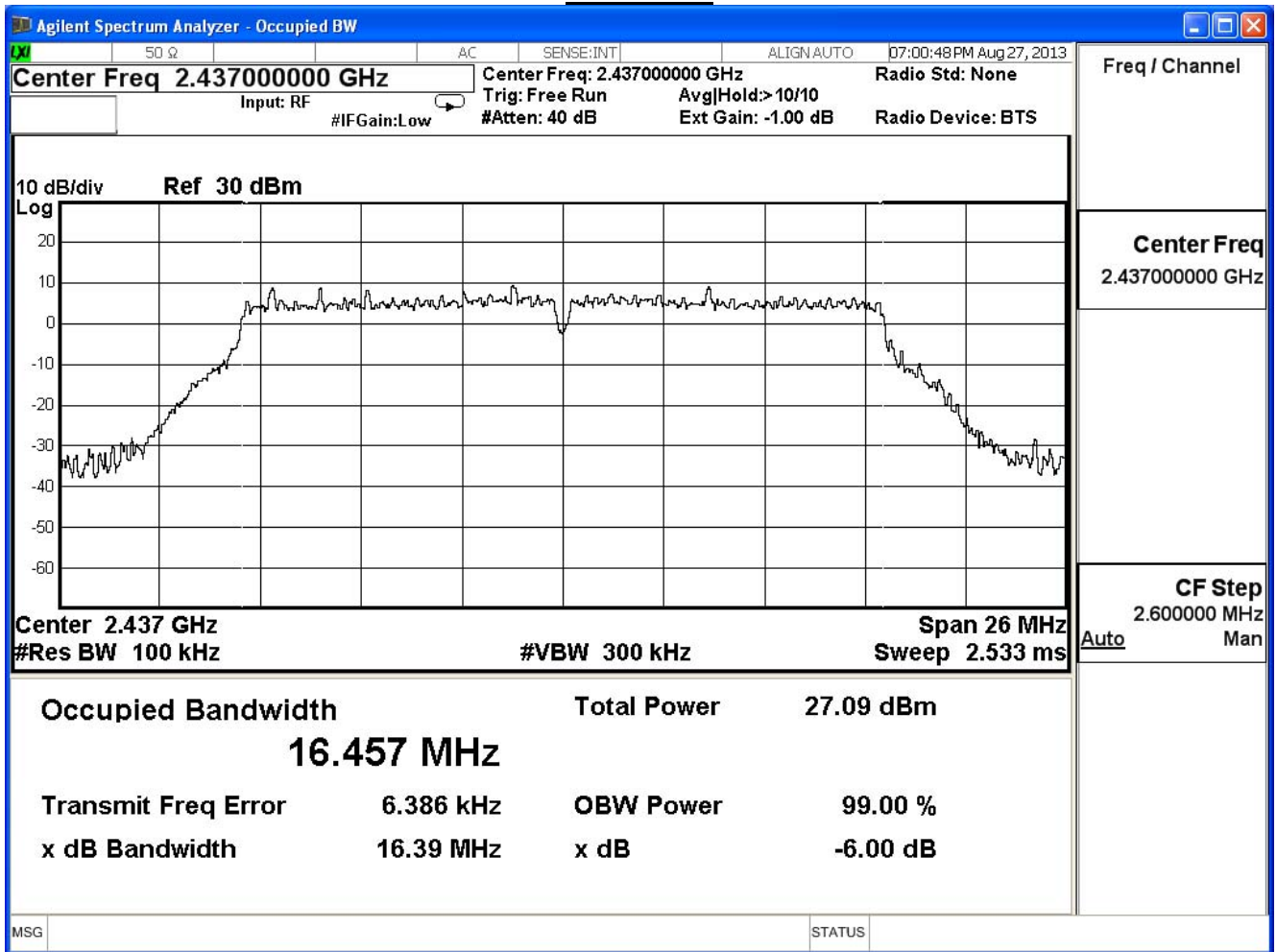
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11g (ANT2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	16.35	≥ 0.5	Pass
6	2437	16.39	≥ 0.5	Pass
11	2462	16.35	≥ 0.5	Pass

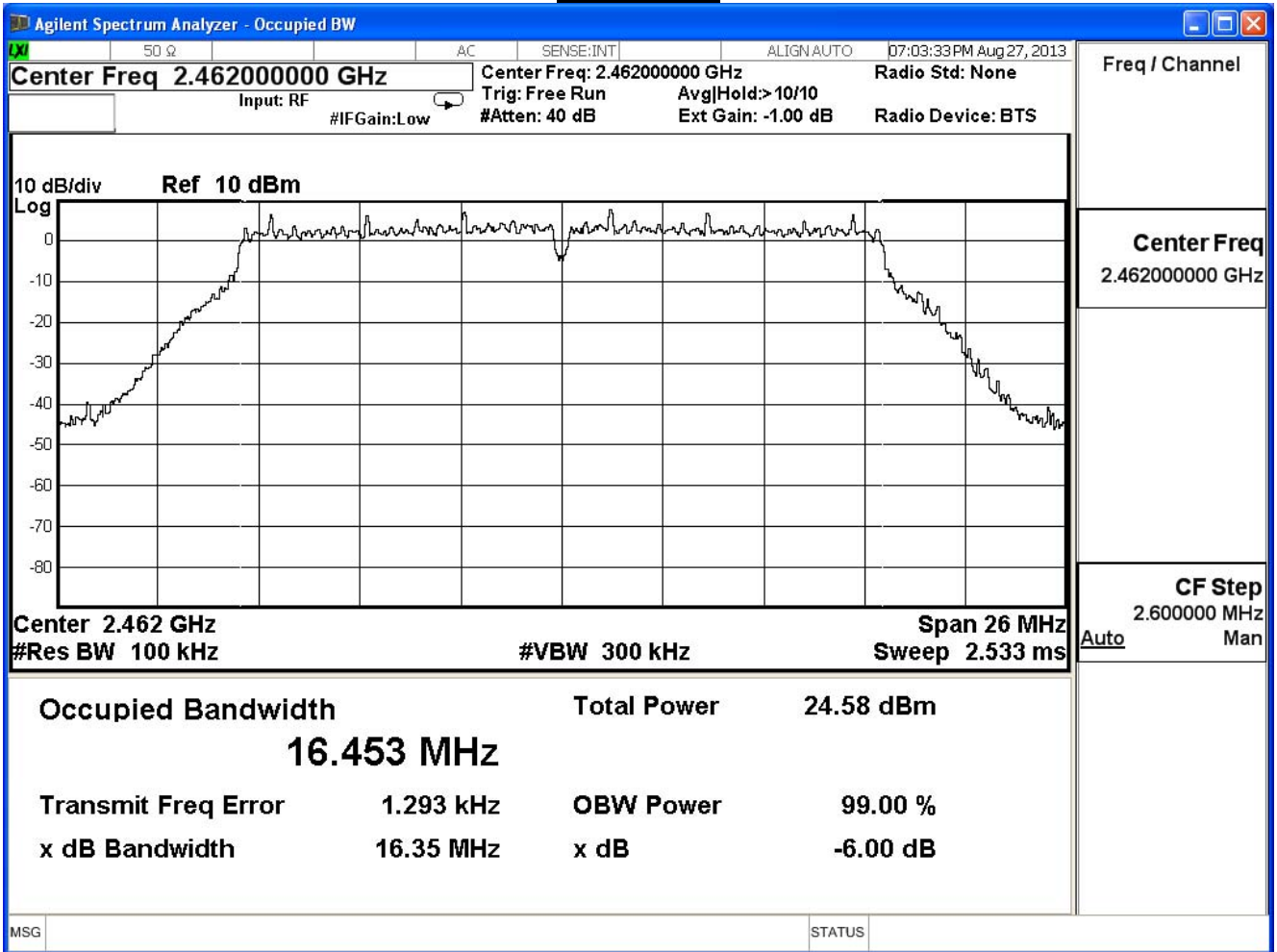
Channel 1



Channel 6



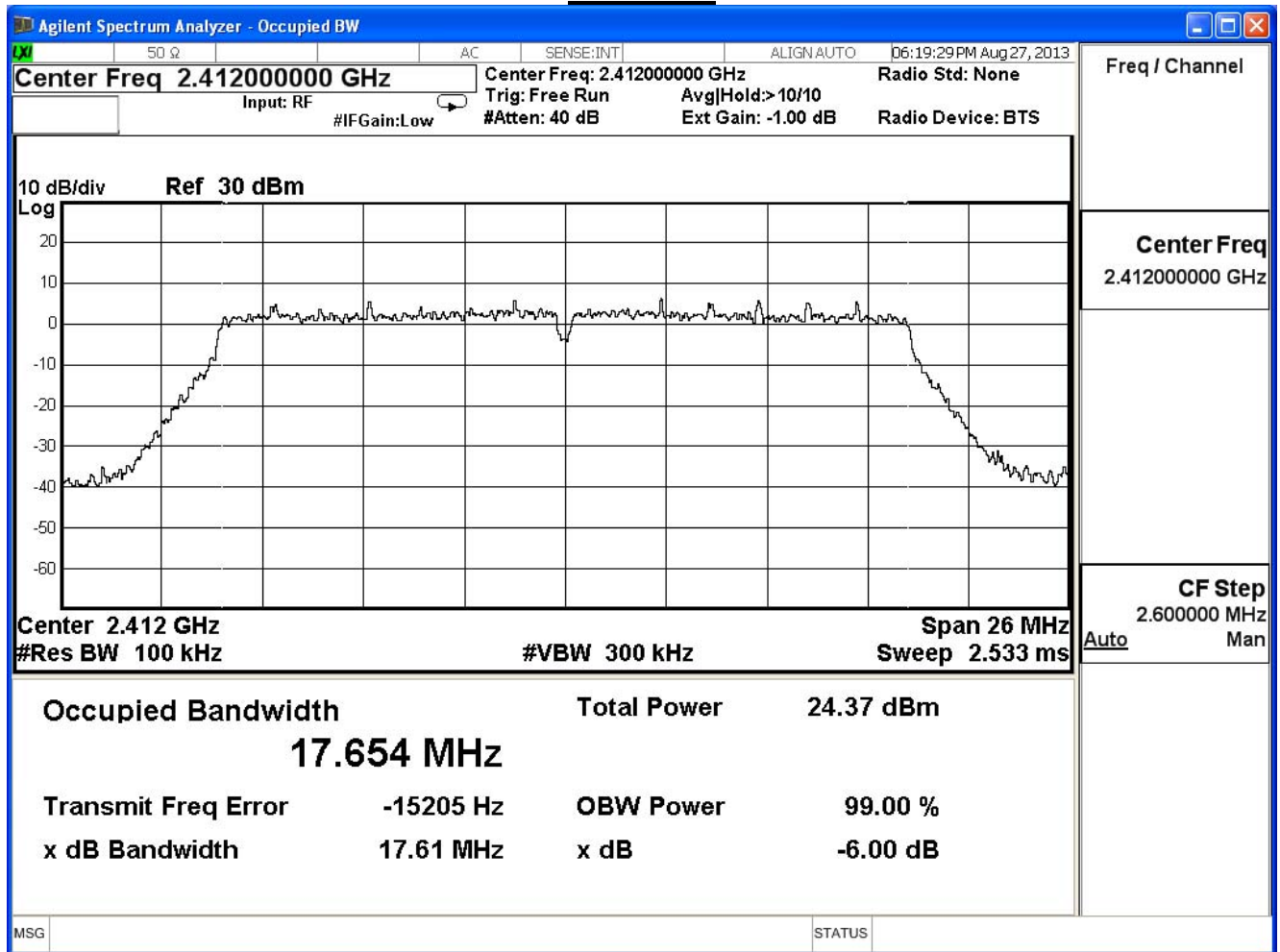
Channel 11



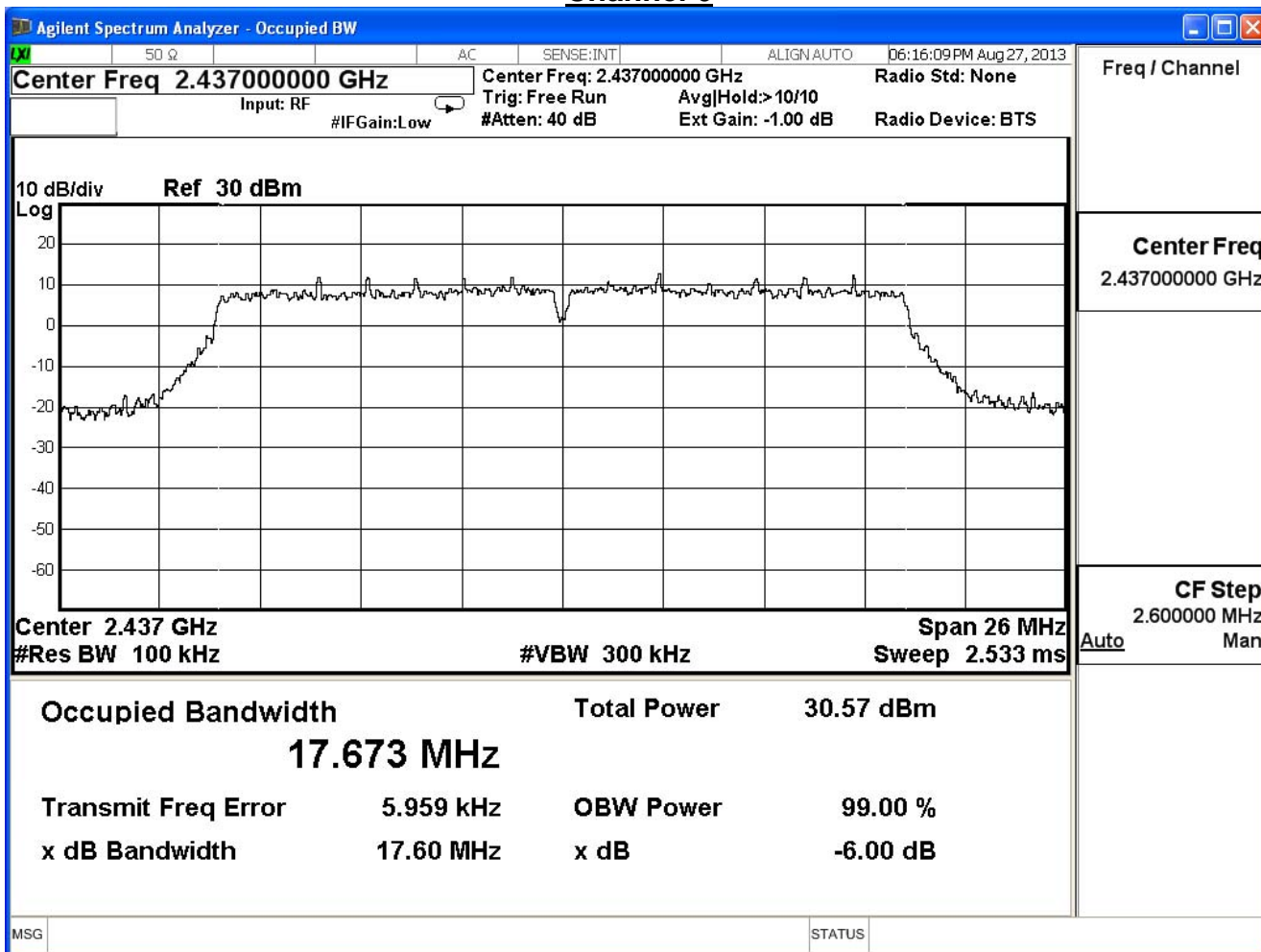
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	17.61	≥ 0.5	Pass
6	2437	17.60	≥ 0.5	Pass
11	2462	17.57	≥ 0.5	Pass

Channel 1



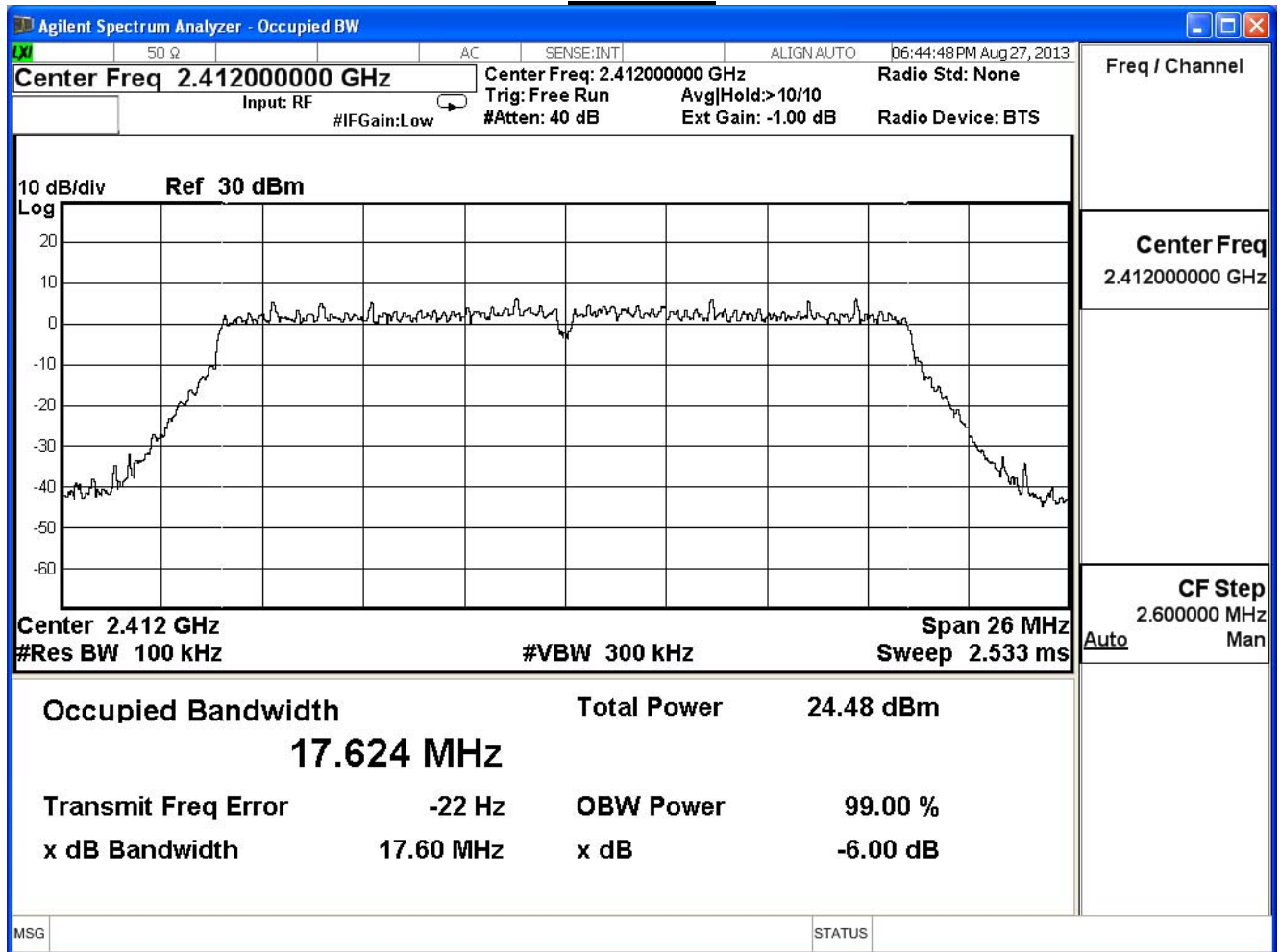
Channel 6



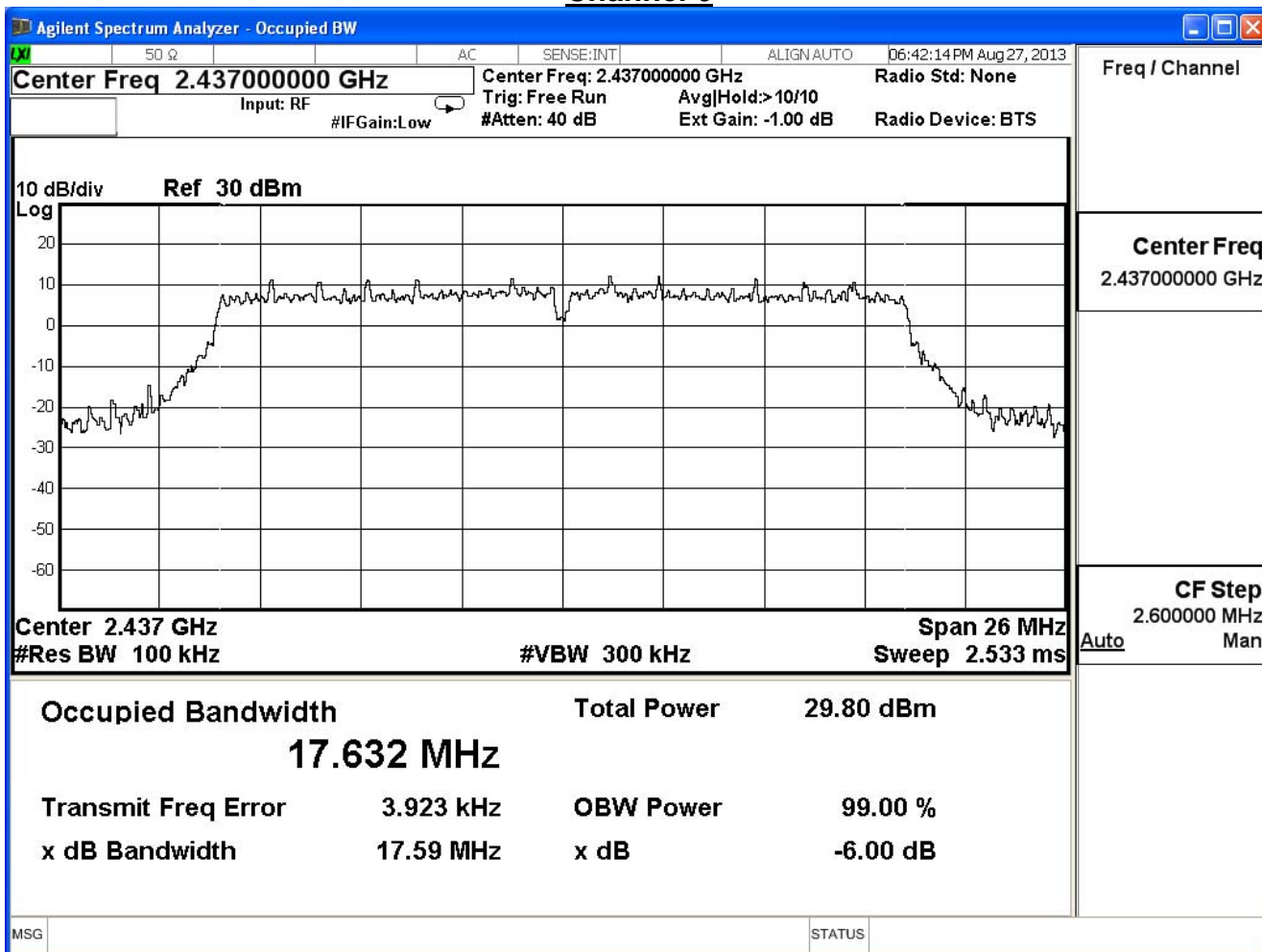
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	17.60	≥ 0.5	Pass
6	2437	17.59	≥ 0.5	Pass
11	2462	17.59	≥ 0.5	Pass

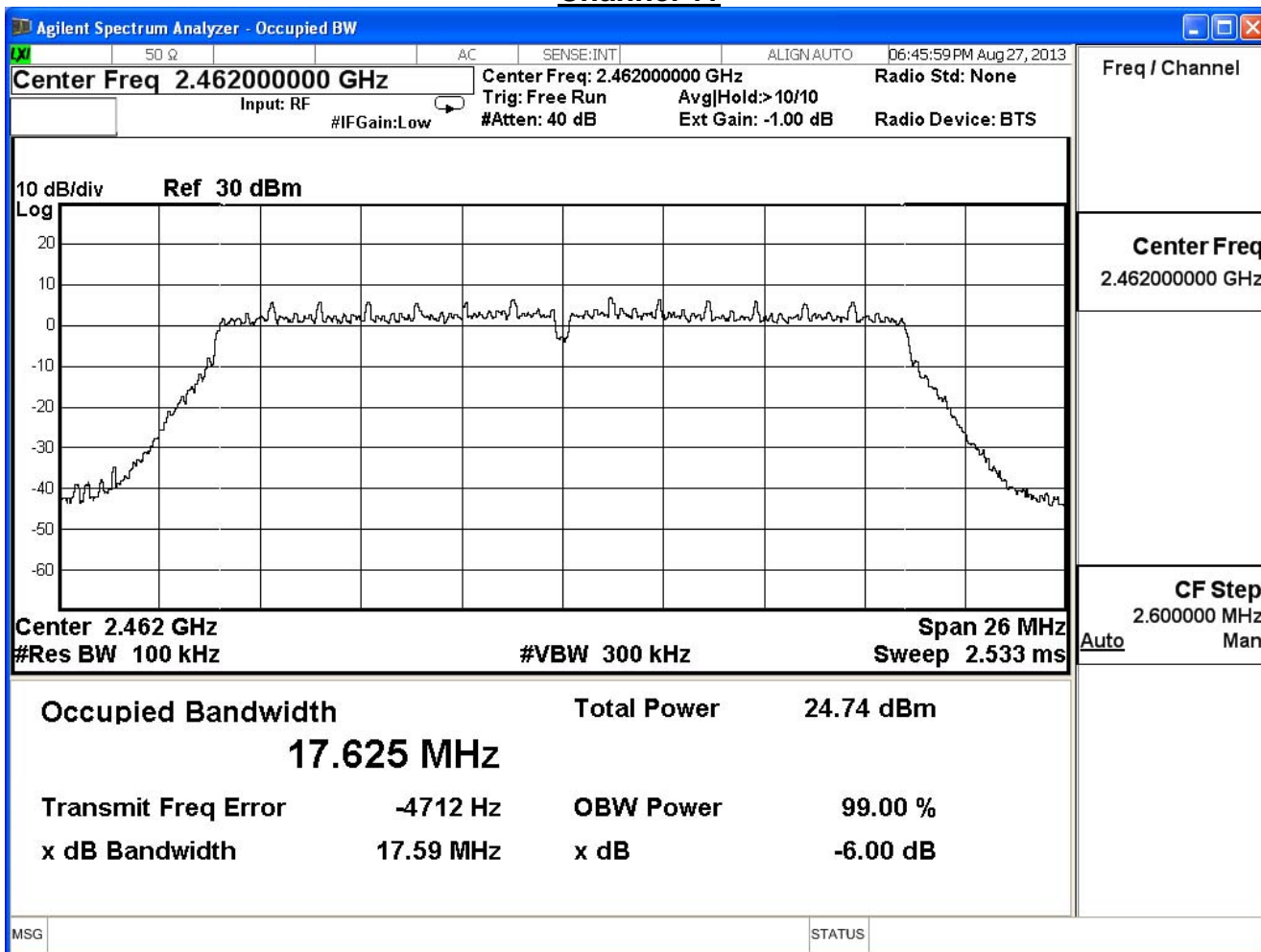
Channel 1



Channel 6



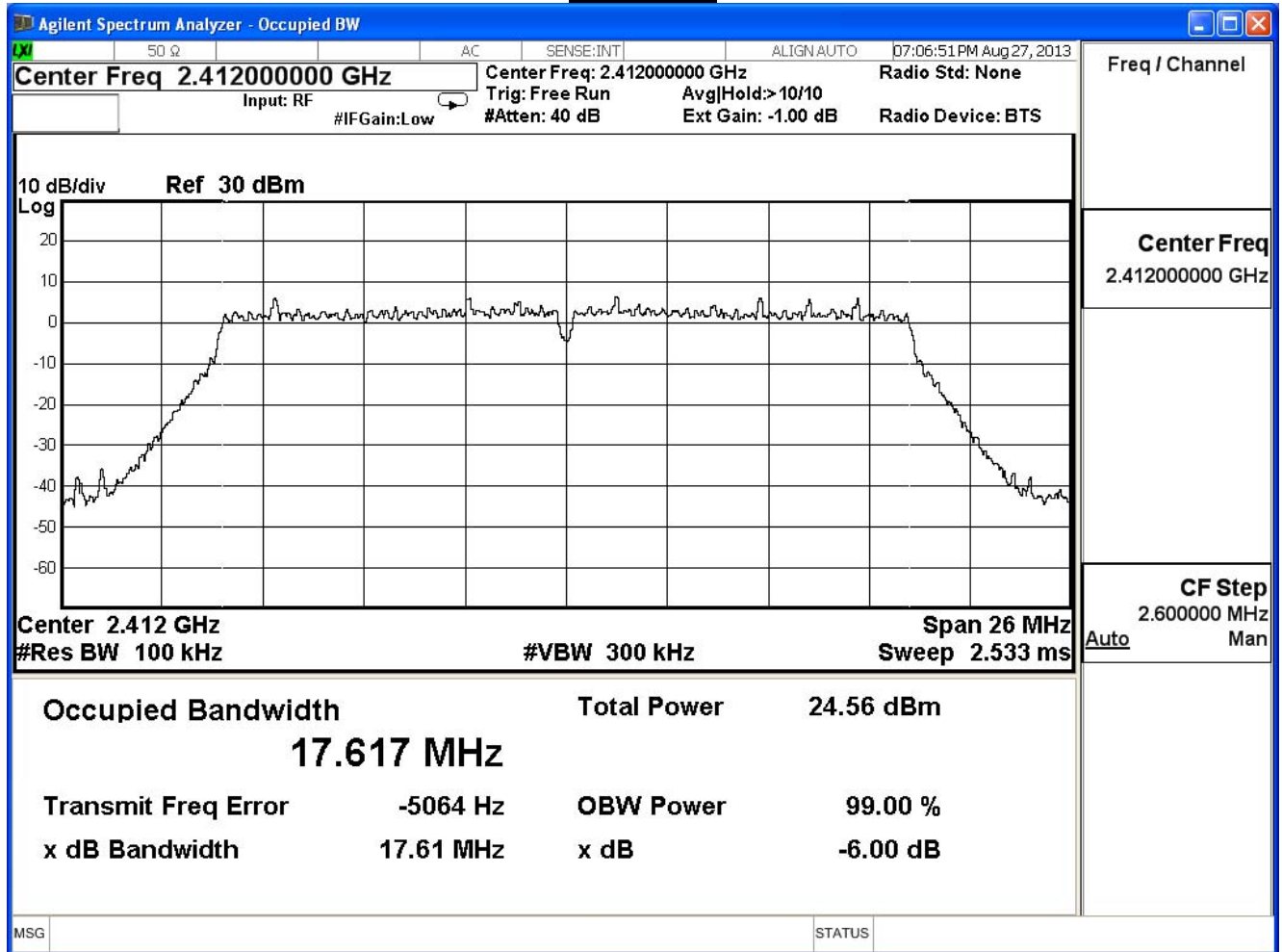
Channel 11



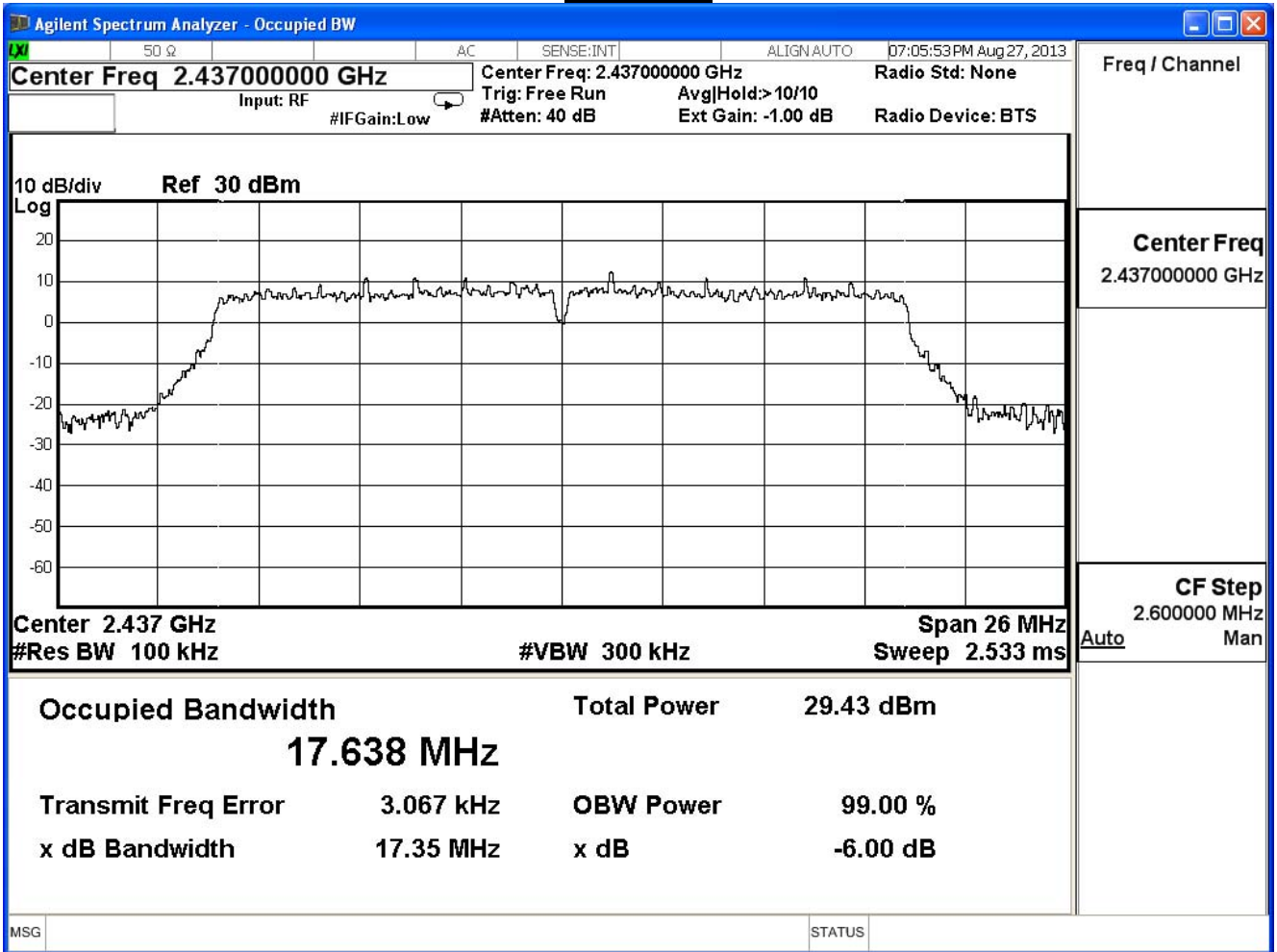
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	17.61	≥ 0.5	Pass
6	2437	17.35	≥ 0.5	Pass
11	2462	17.60	≥ 0.5	Pass

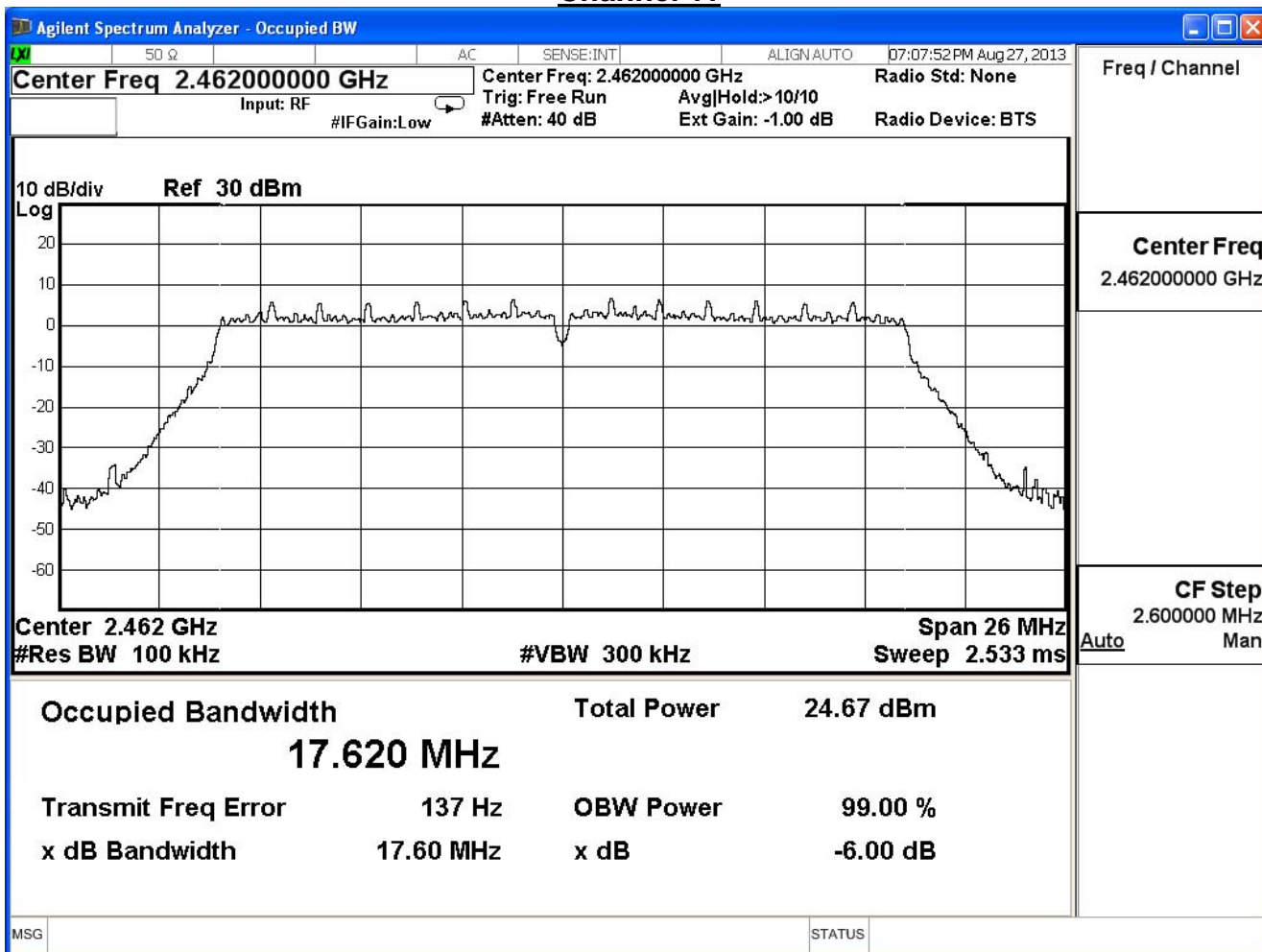
Channel 1



Channel 6



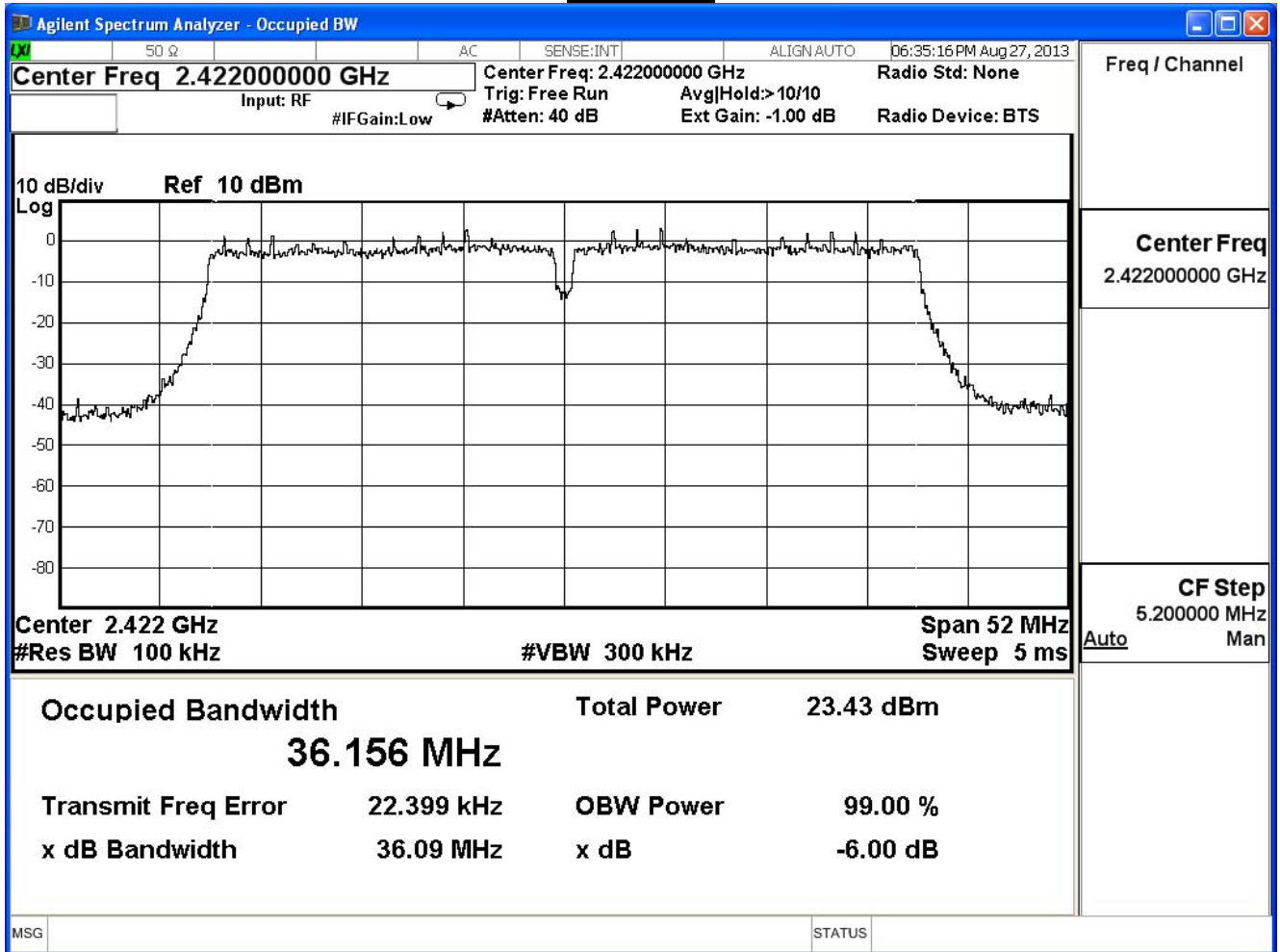
Channel 11



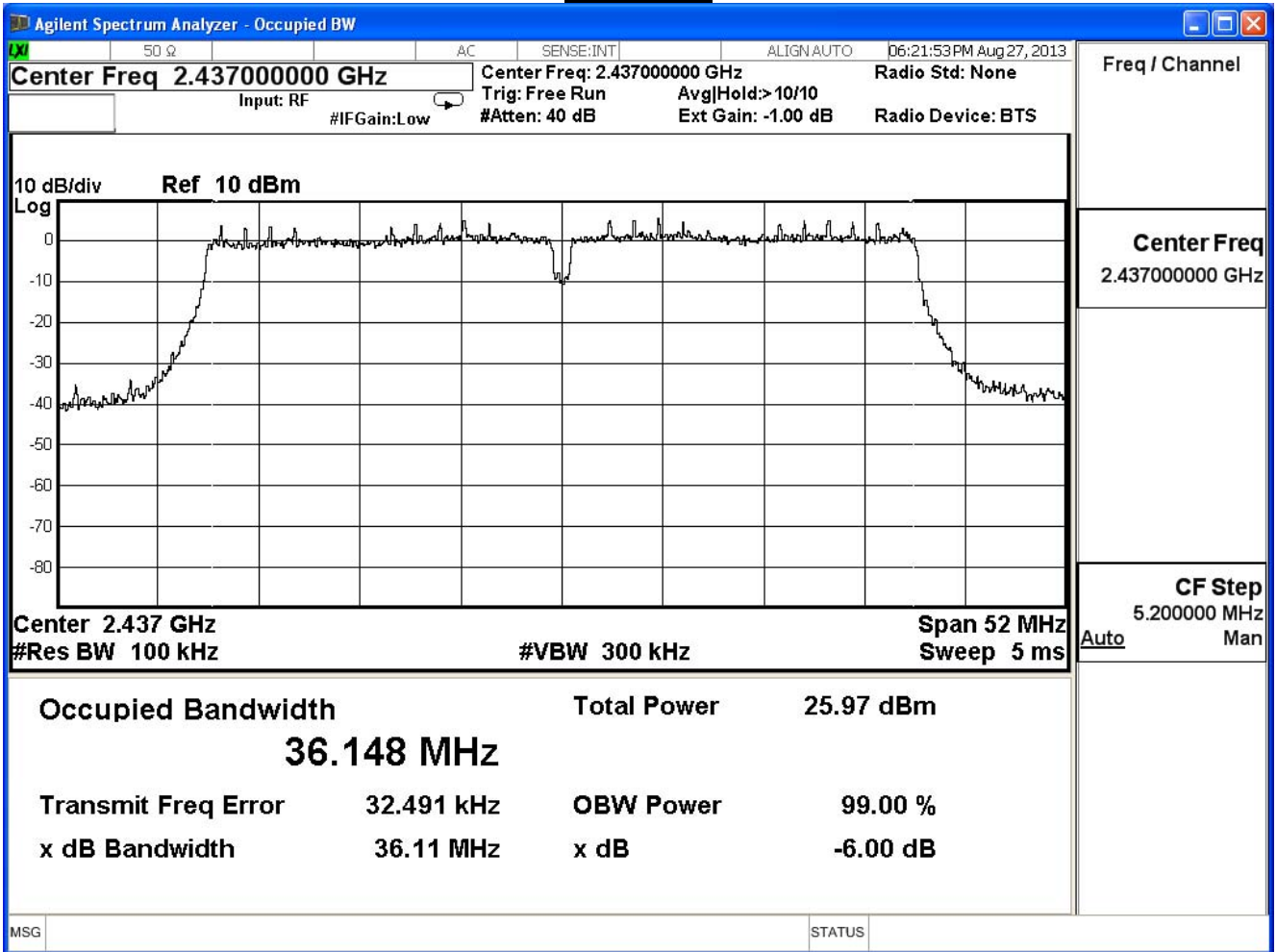
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.09	≥ 0.5	Pass
6	2437	36.11	≥ 0.5	Pass
9	2452	36.12	≥ 0.5	Pass

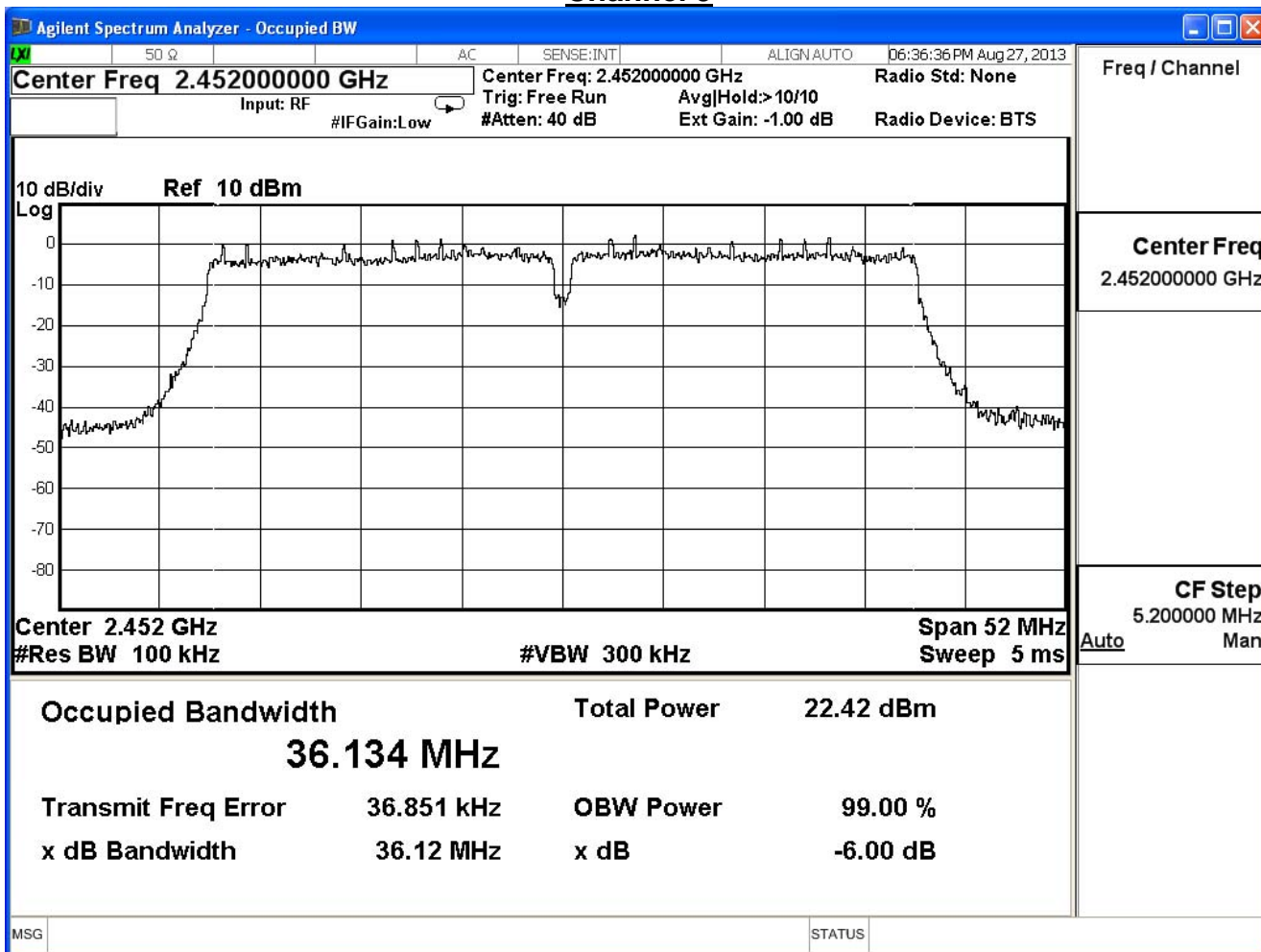
Channel 3



Channel 6



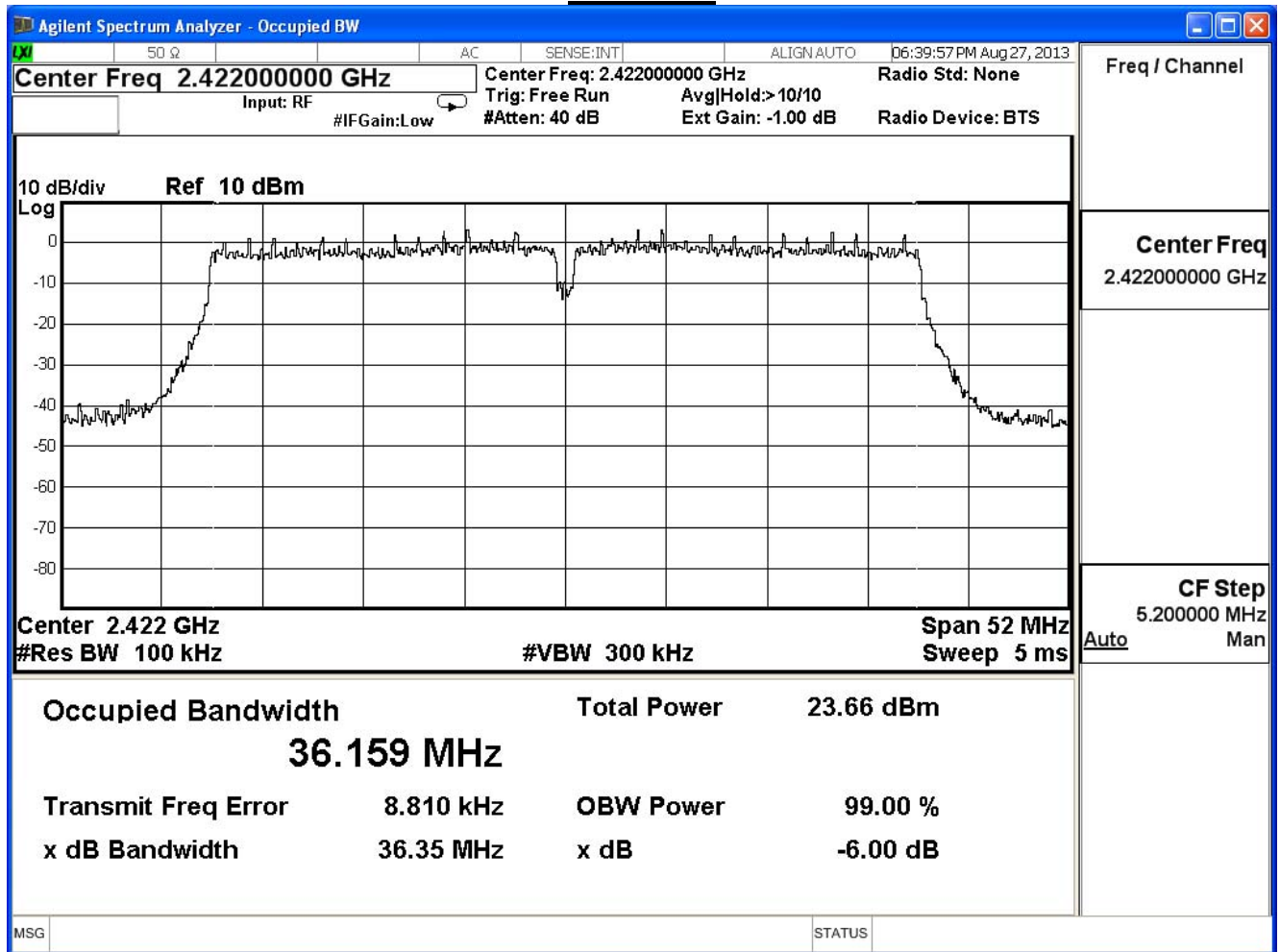
Channel 9



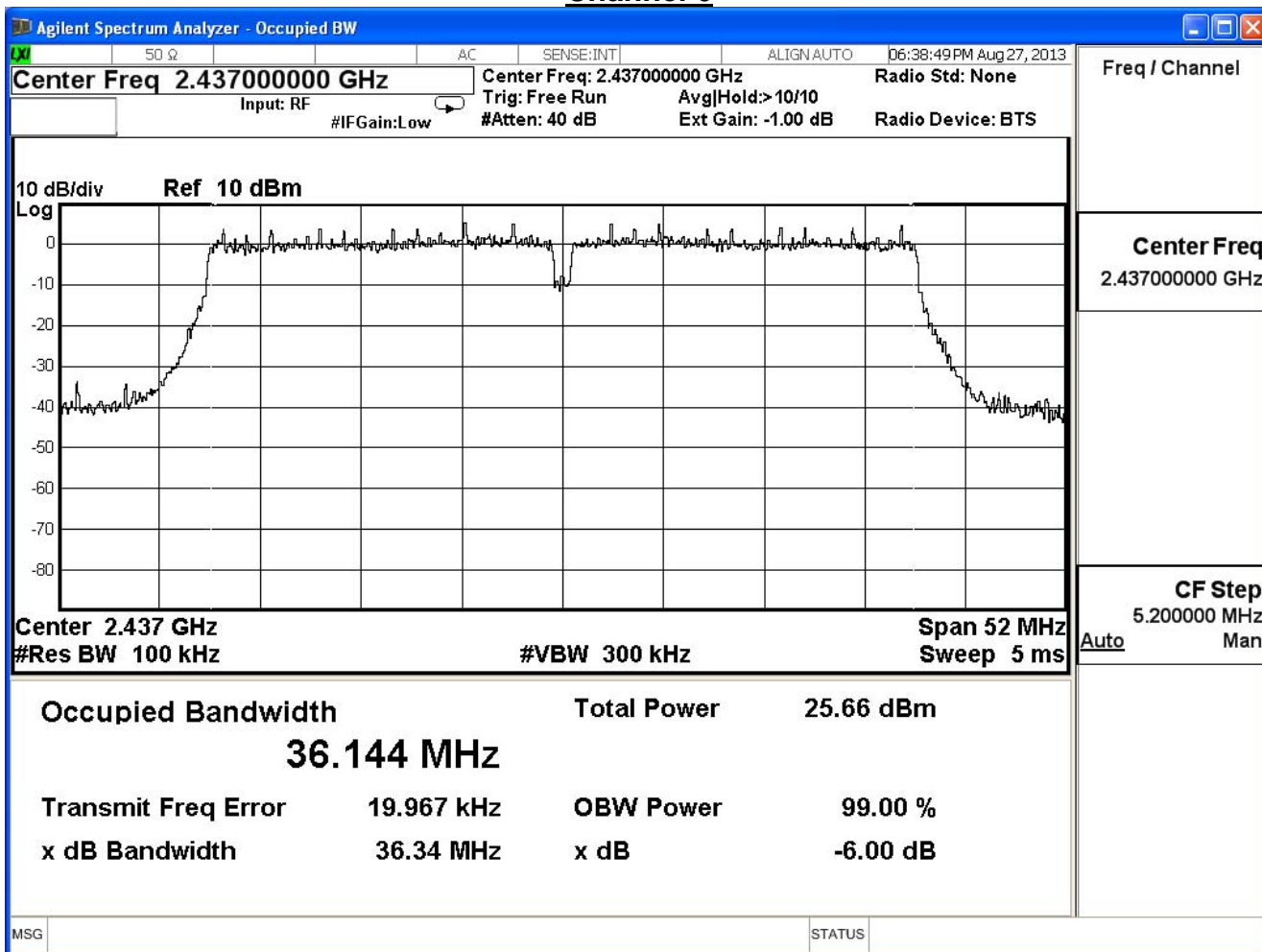
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.35	≥ 0.5	Pass
6	2437	36.34	≥ 0.5	Pass
9	2452	36.14	≥ 0.5	Pass

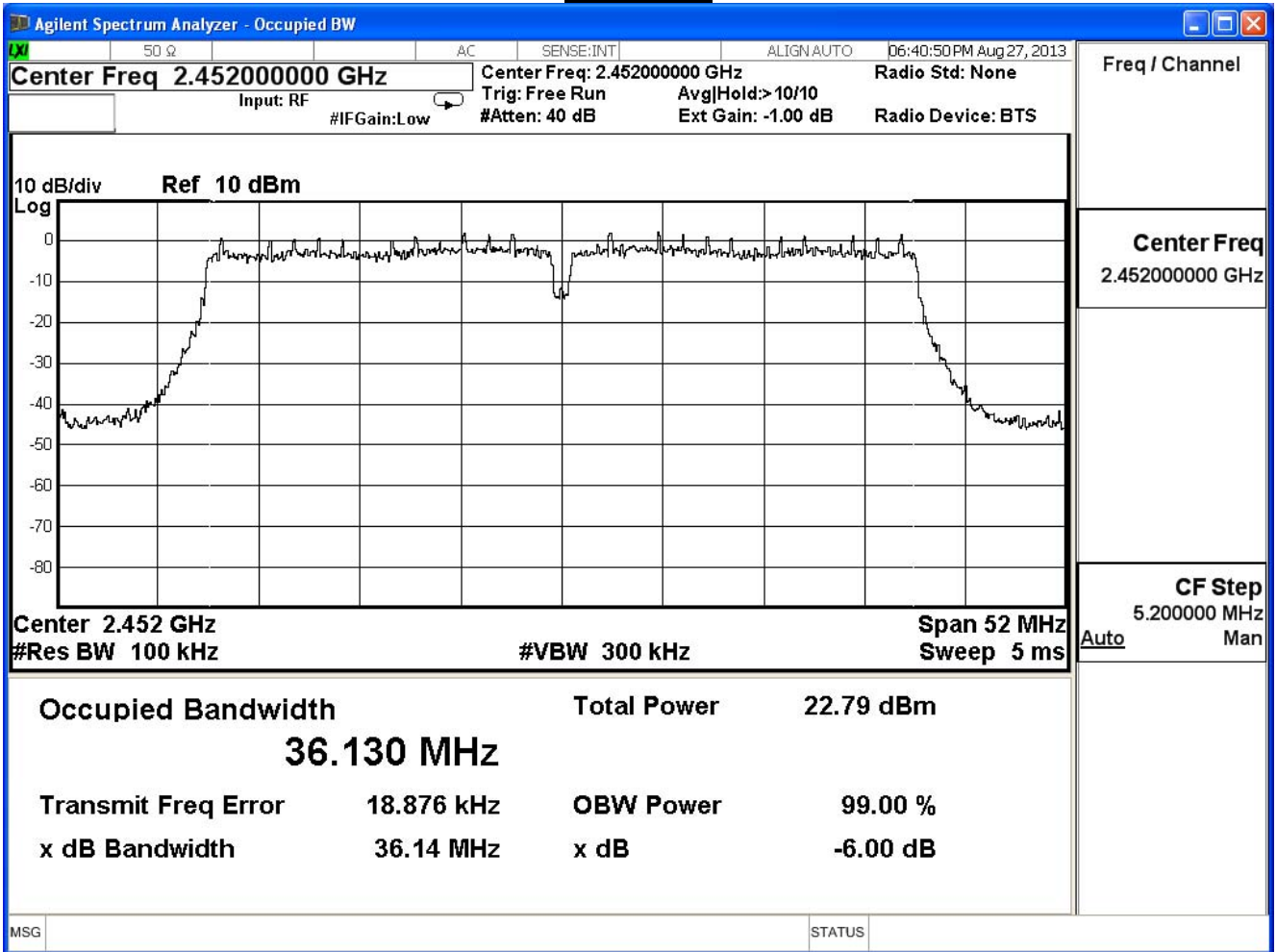
Channel 3



Channel 6



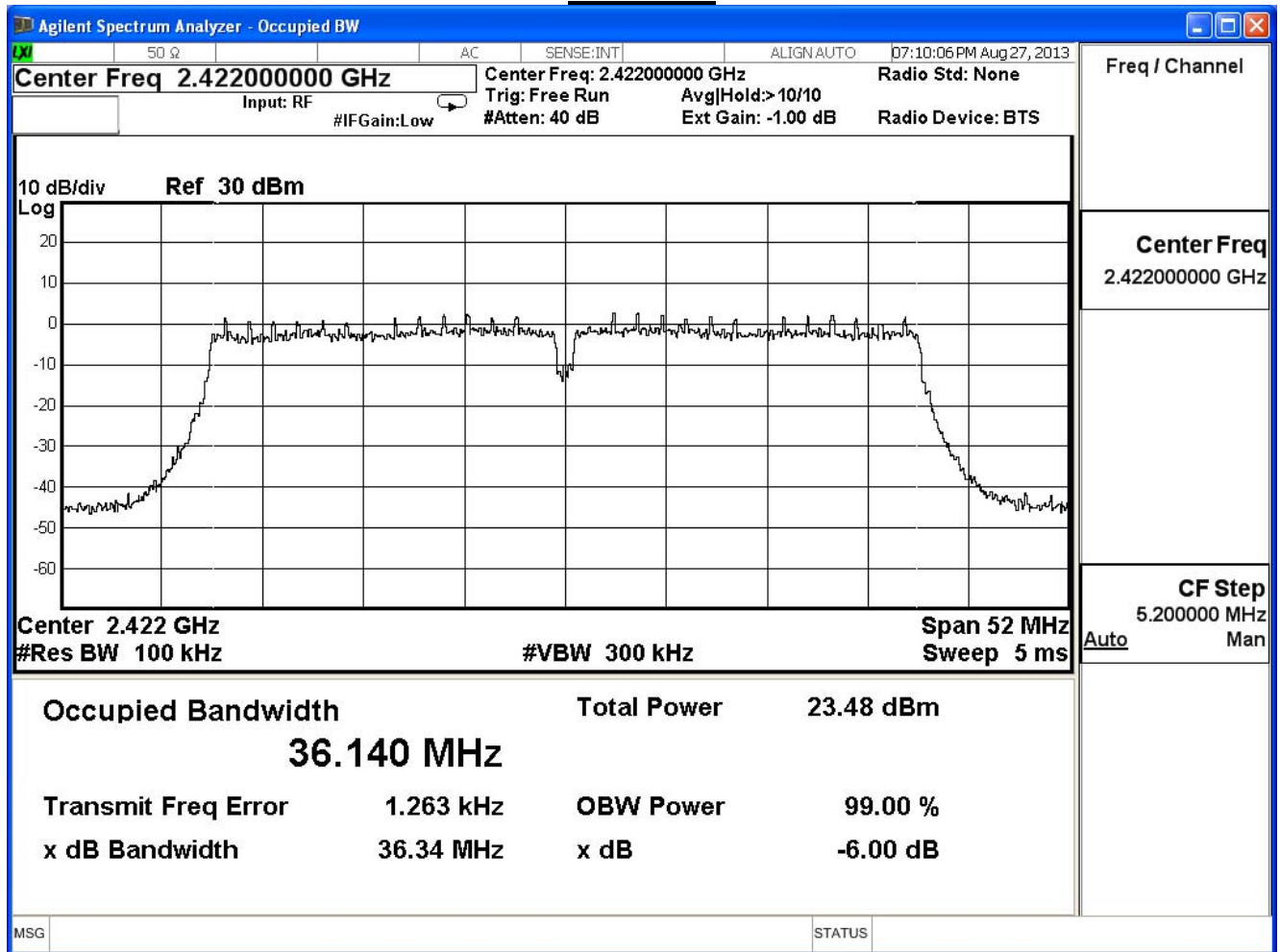
Channel 9



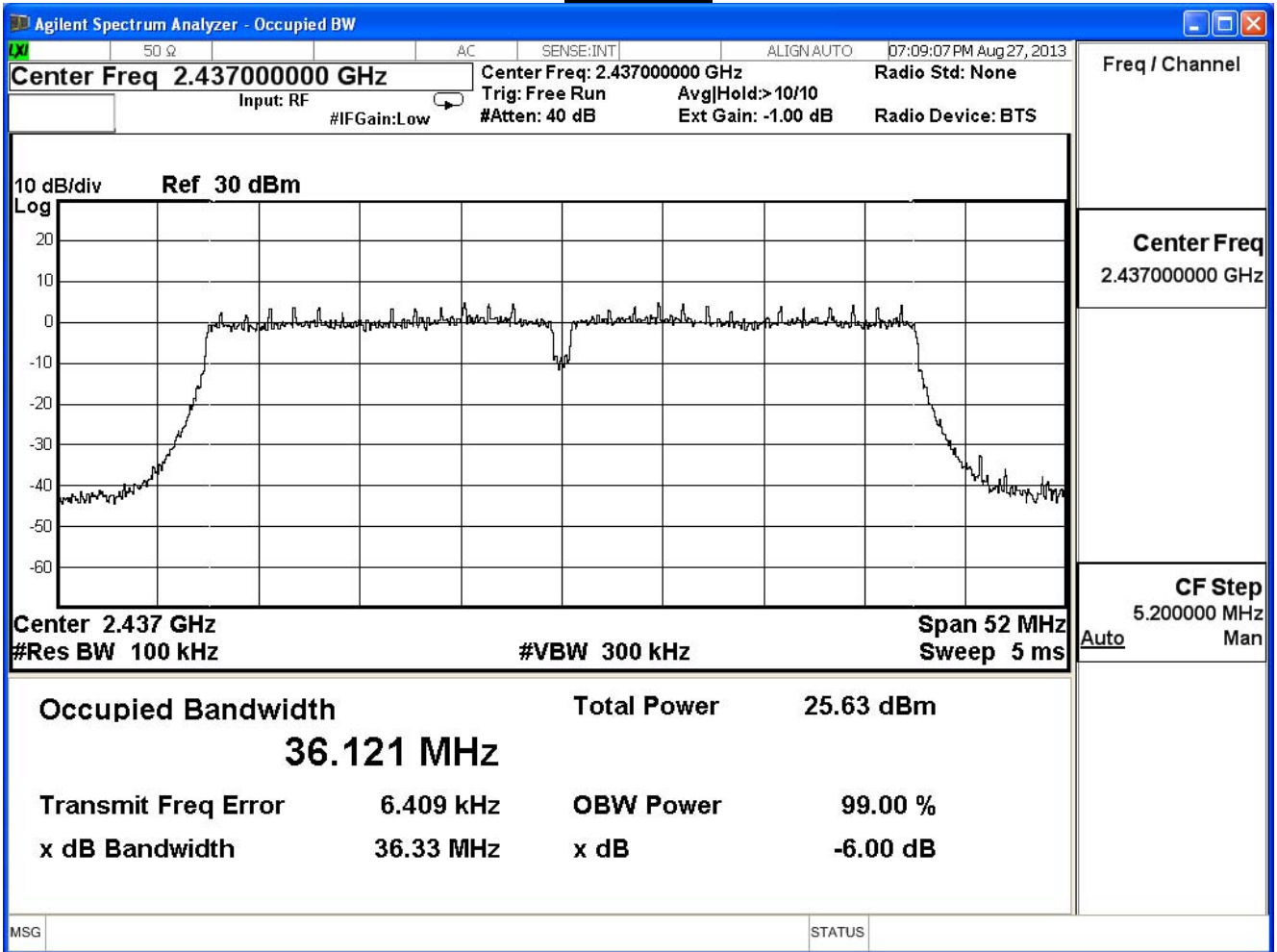
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.34	≥ 0.5	Pass
6	2437	36.33	≥ 0.5	Pass
9	2452	36.31	≥ 0.5	Pass

Channel 3



Channel 6



Channel 9

