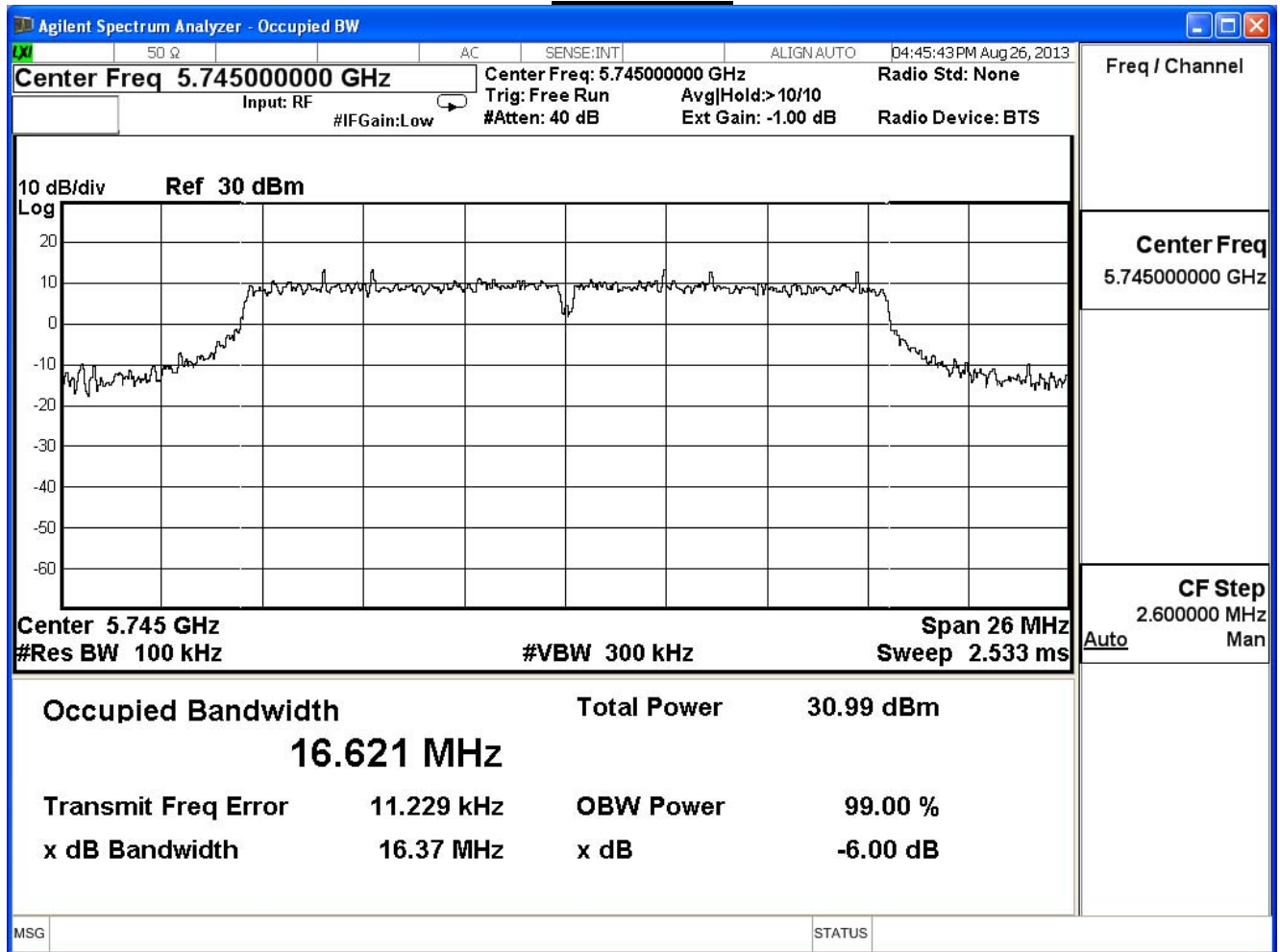


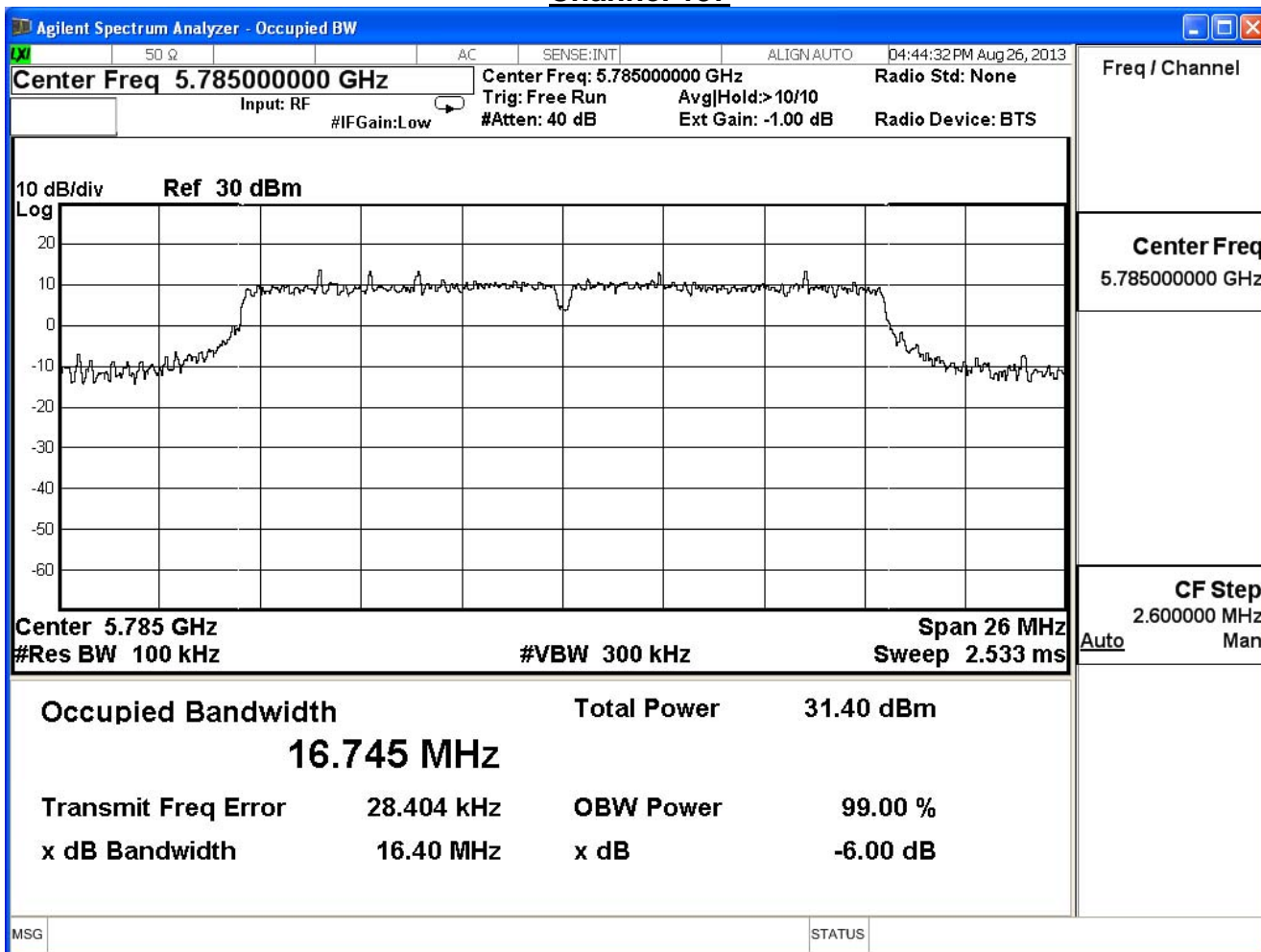
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

802.11 a (ANT0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	16.37	≥ 0.5	Pass
157	5785	16.40	≥ 0.5	Pass
165	5825	16.40	≥ 0.5	Pass

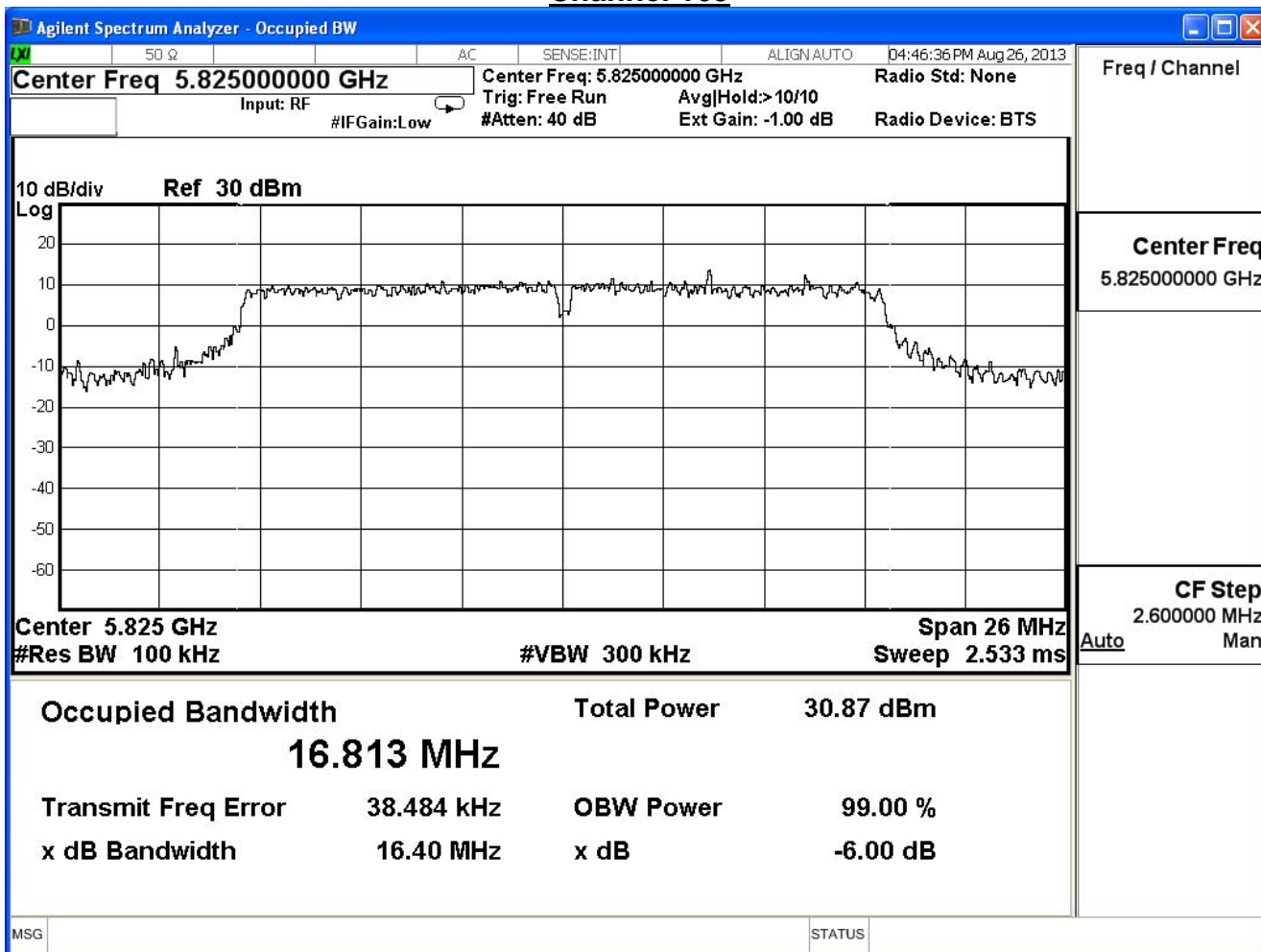
### Channel 149



## Channel 157



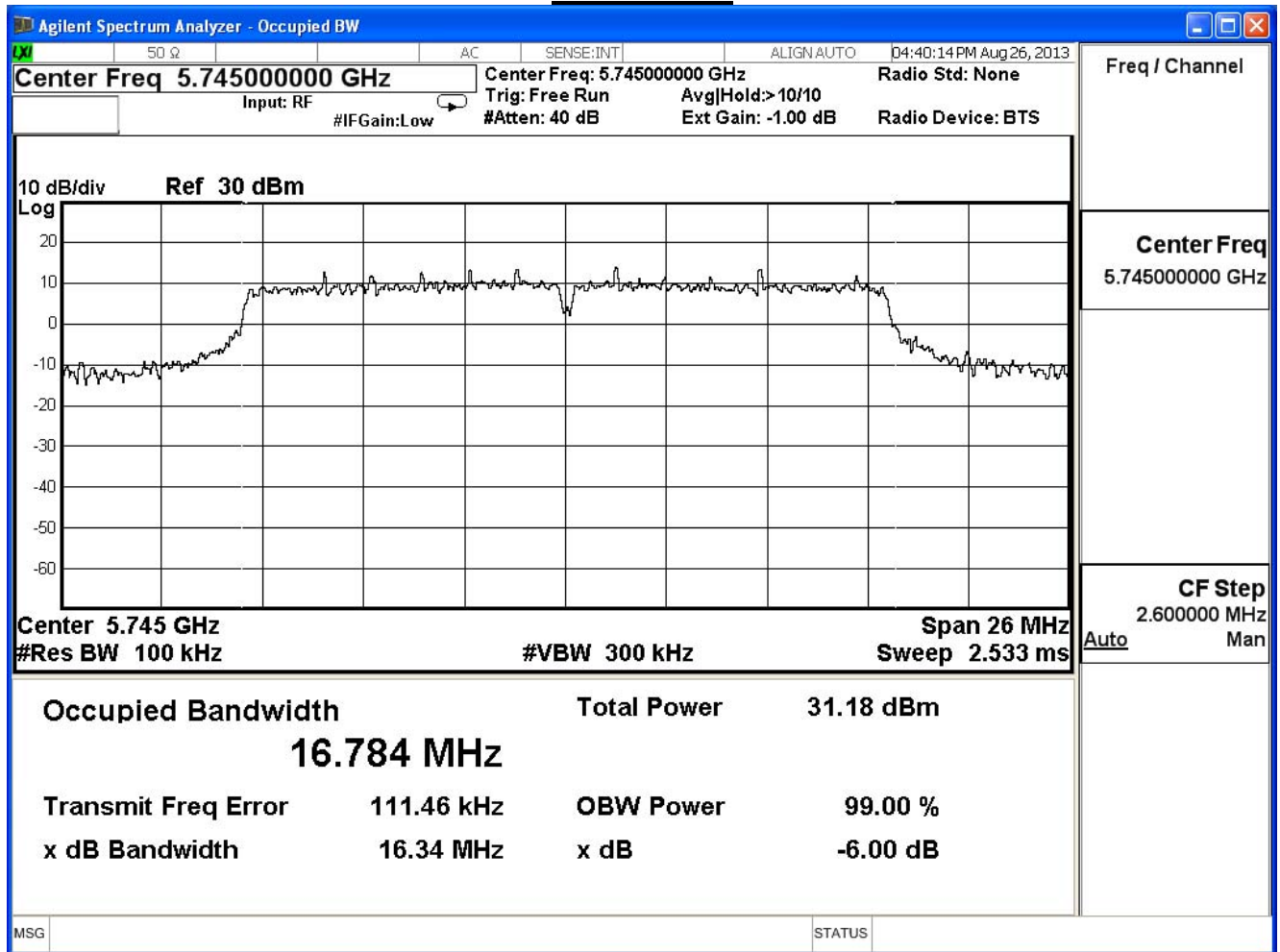
## Channel 165



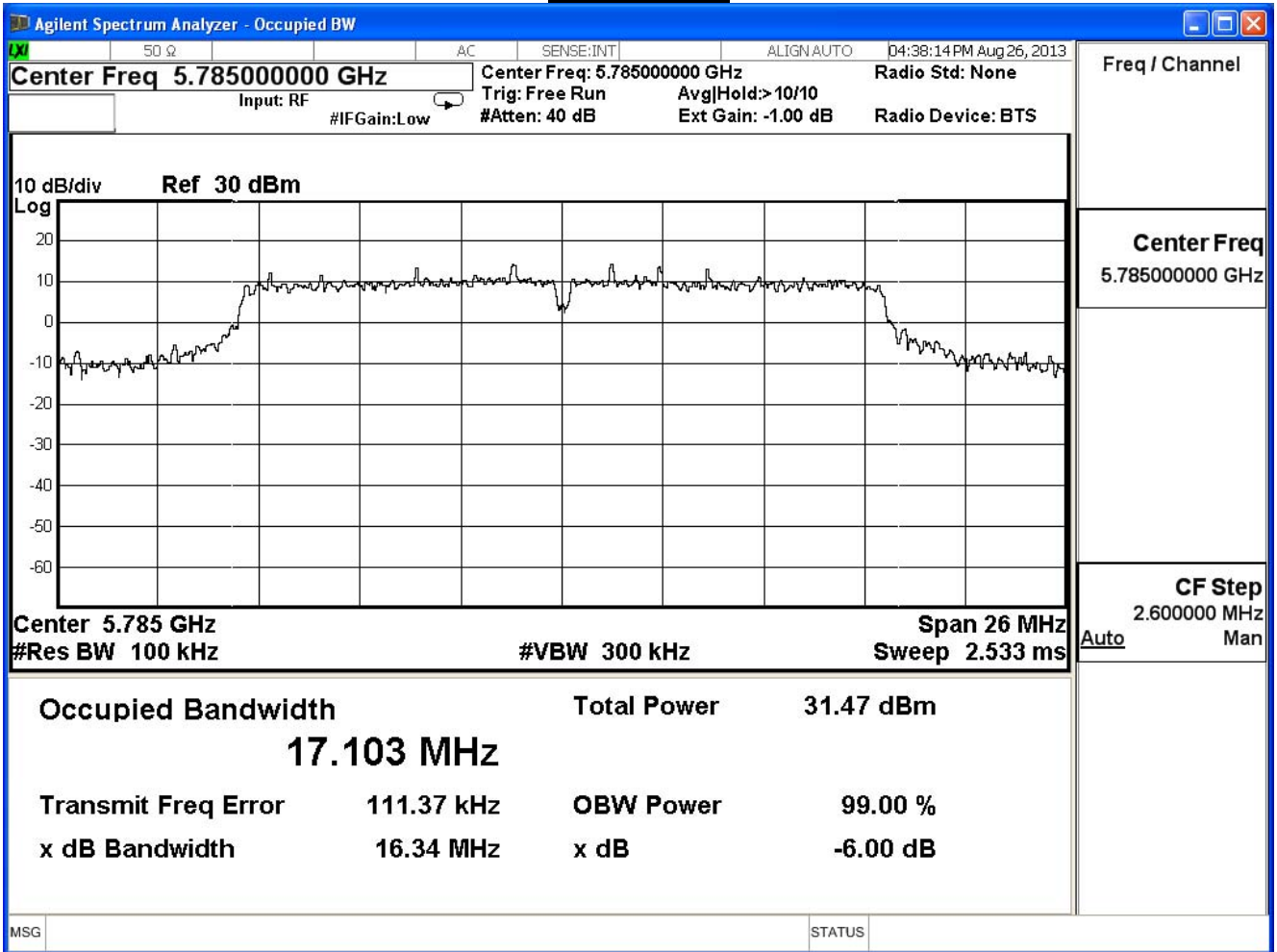
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

802.11 a (ANT1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	16.34	≥ 0.5	Pass
157	5785	16.34	≥ 0.5	Pass
165	5825	16.38	≥ 0.5	Pass

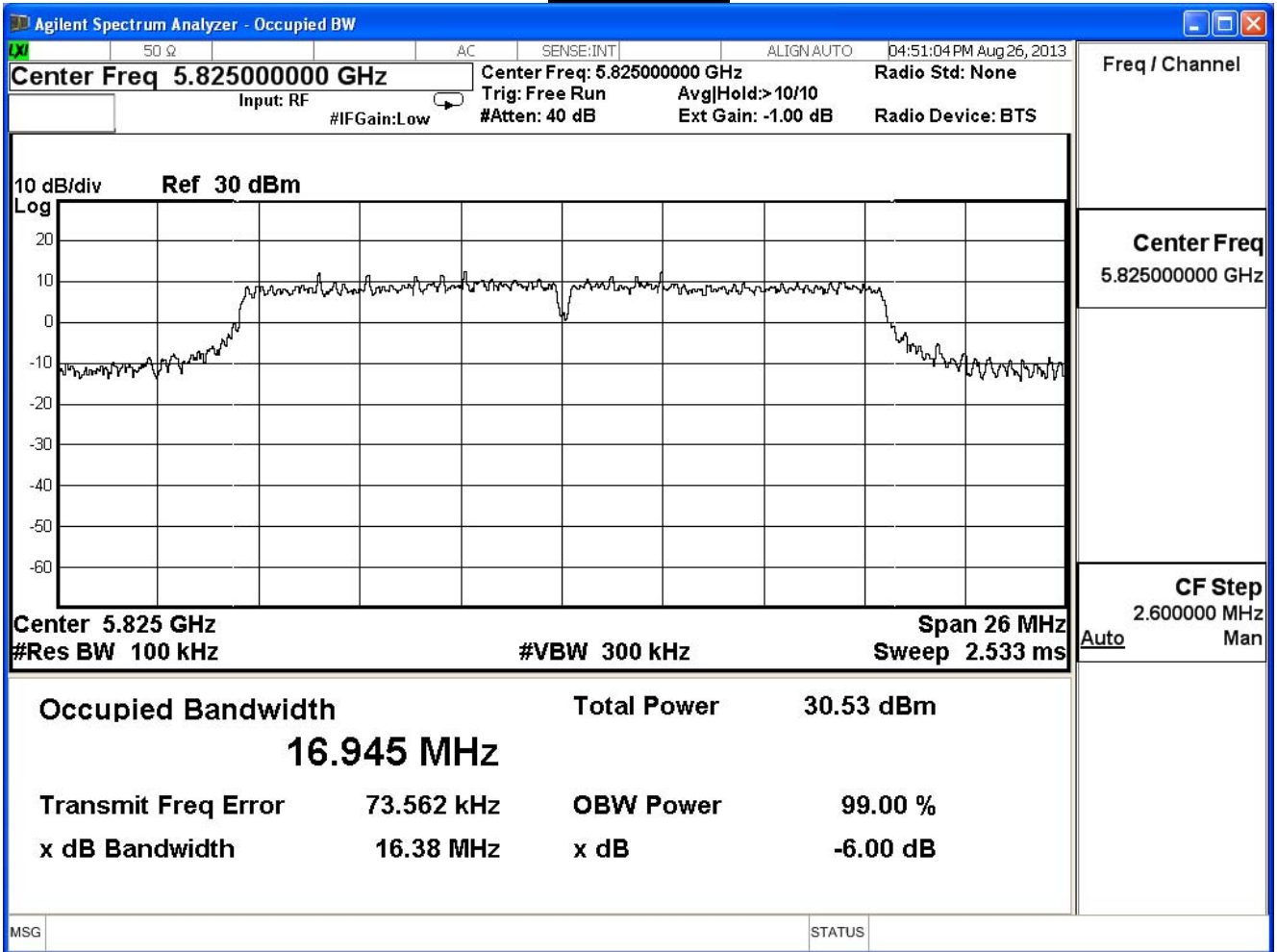
### Channel 149



Channel 157



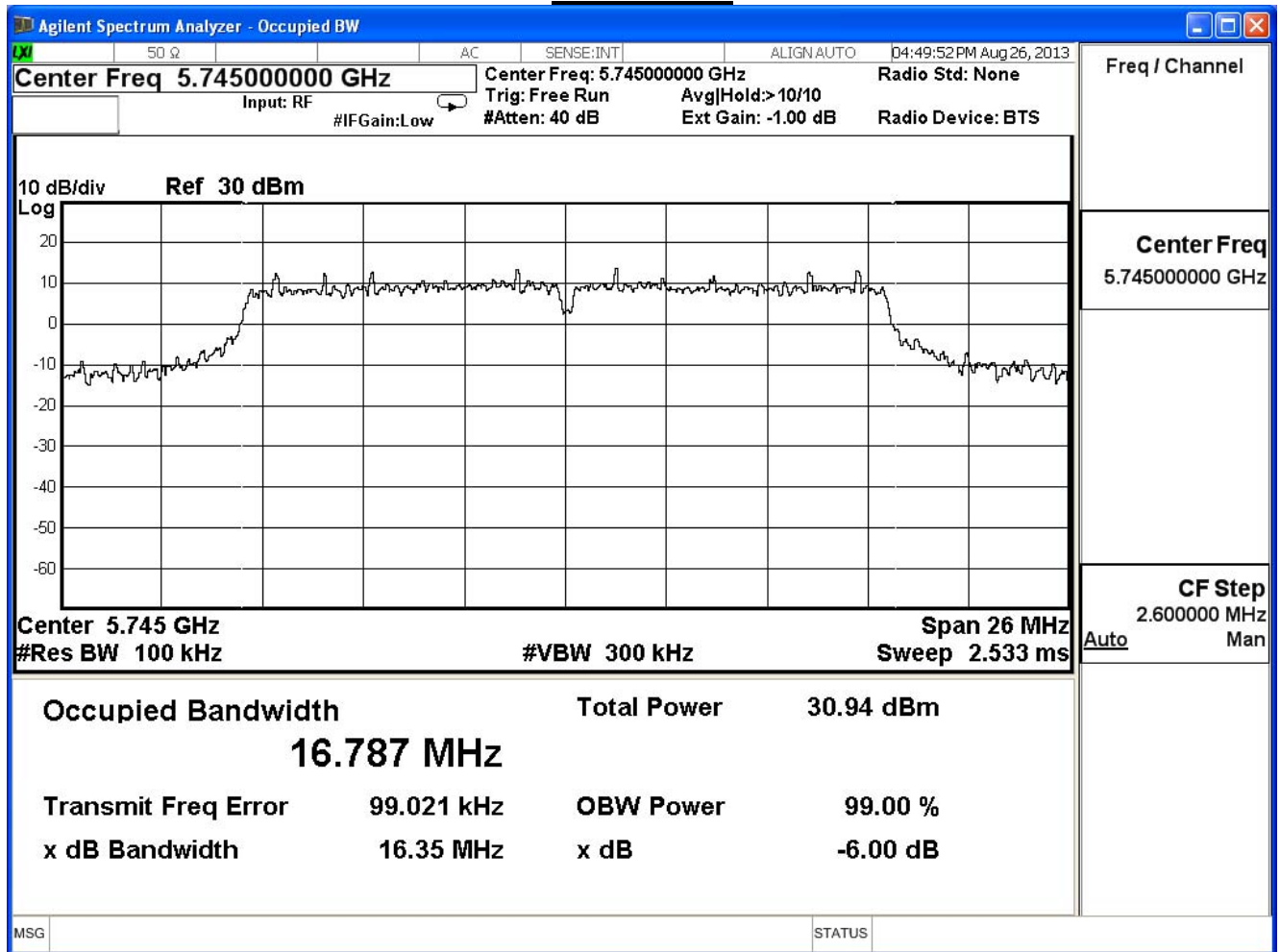
Channel 165



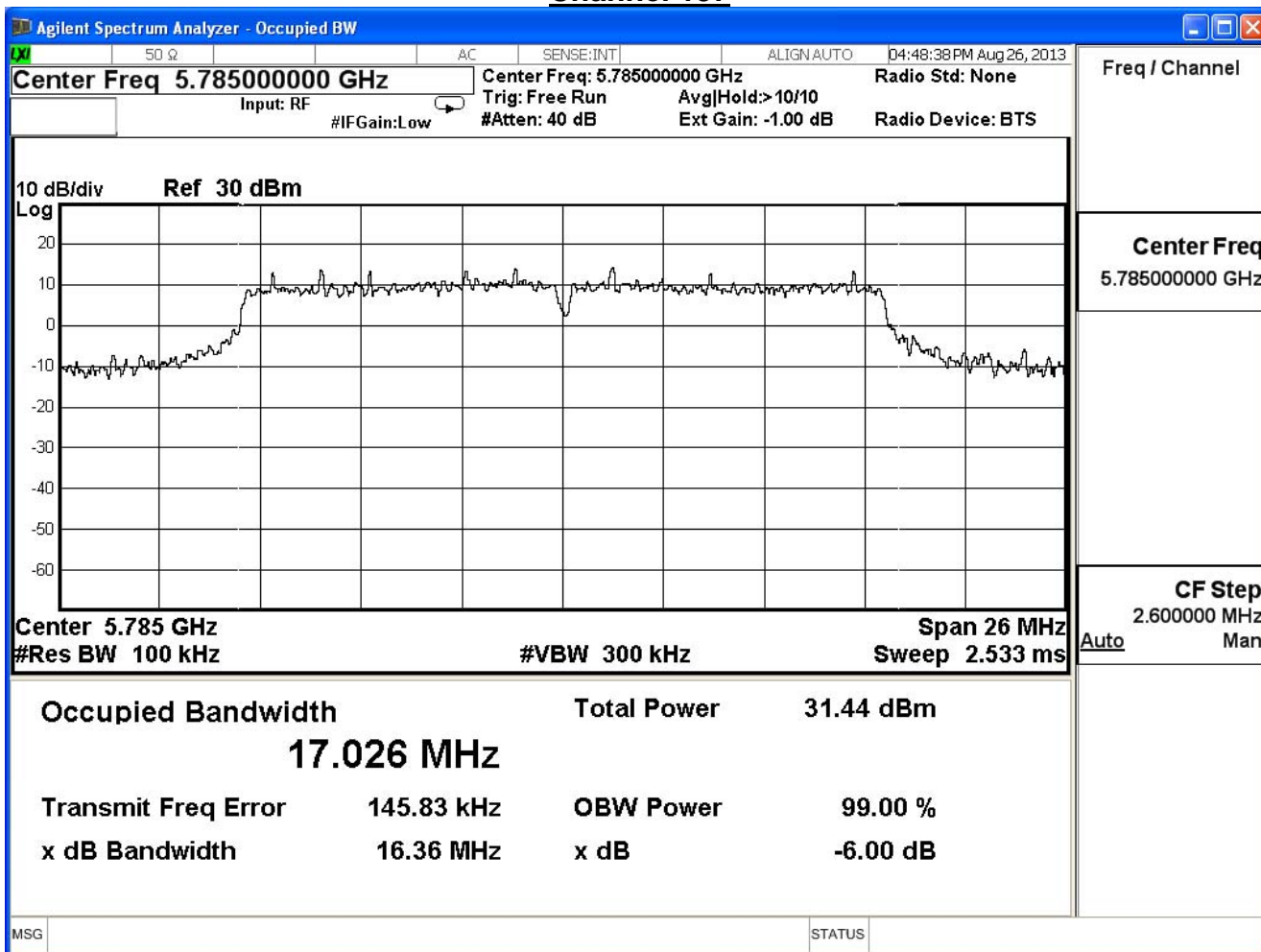
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

802.11 a (ANT2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	16.35	$\geq 0.5$	Pass
157	5785	16.36	$\geq 0.5$	Pass
165	5825	16.37	$\geq 0.5$	Pass

### Channel 149

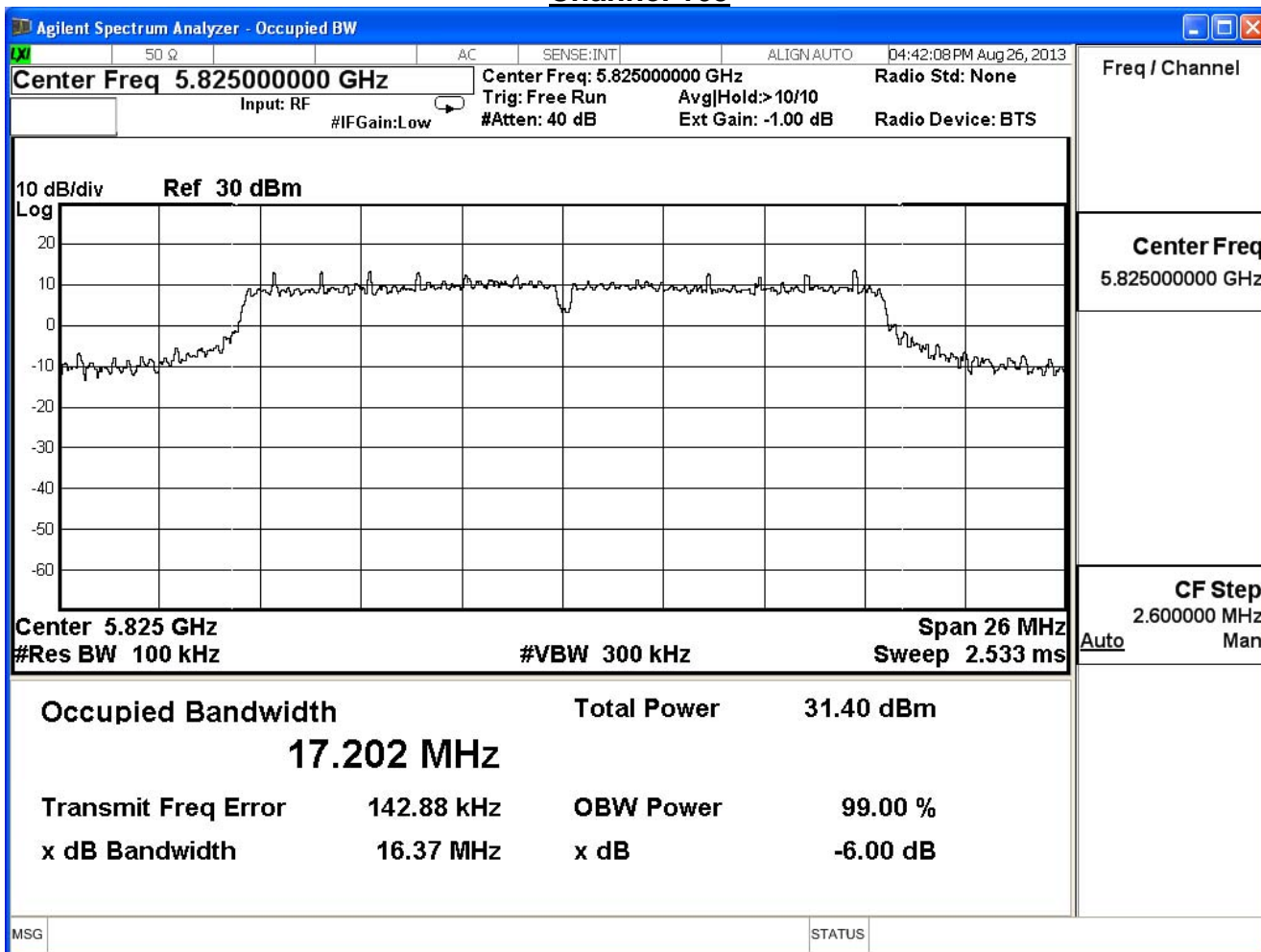


## Channel 157





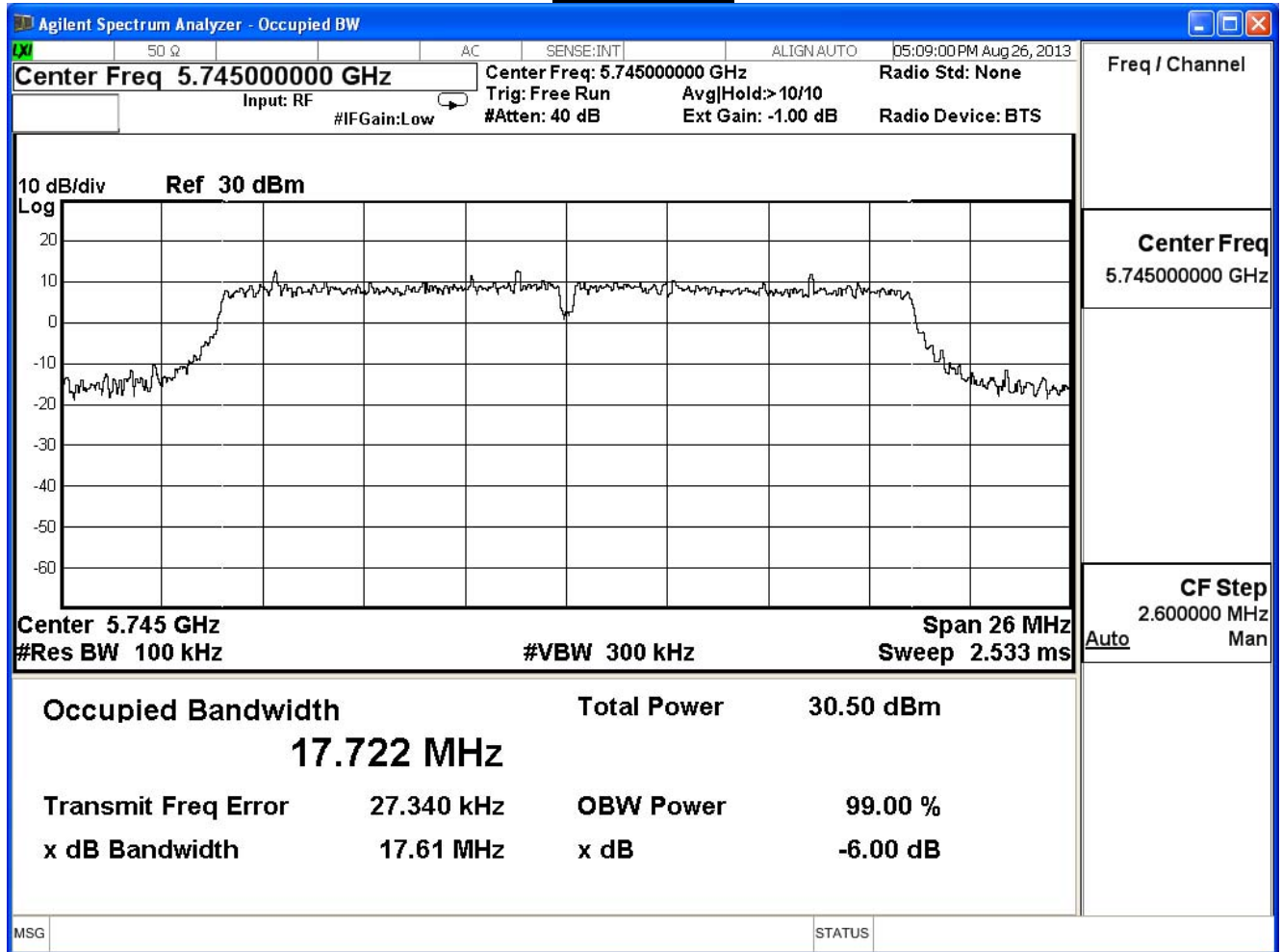
## Channel 165



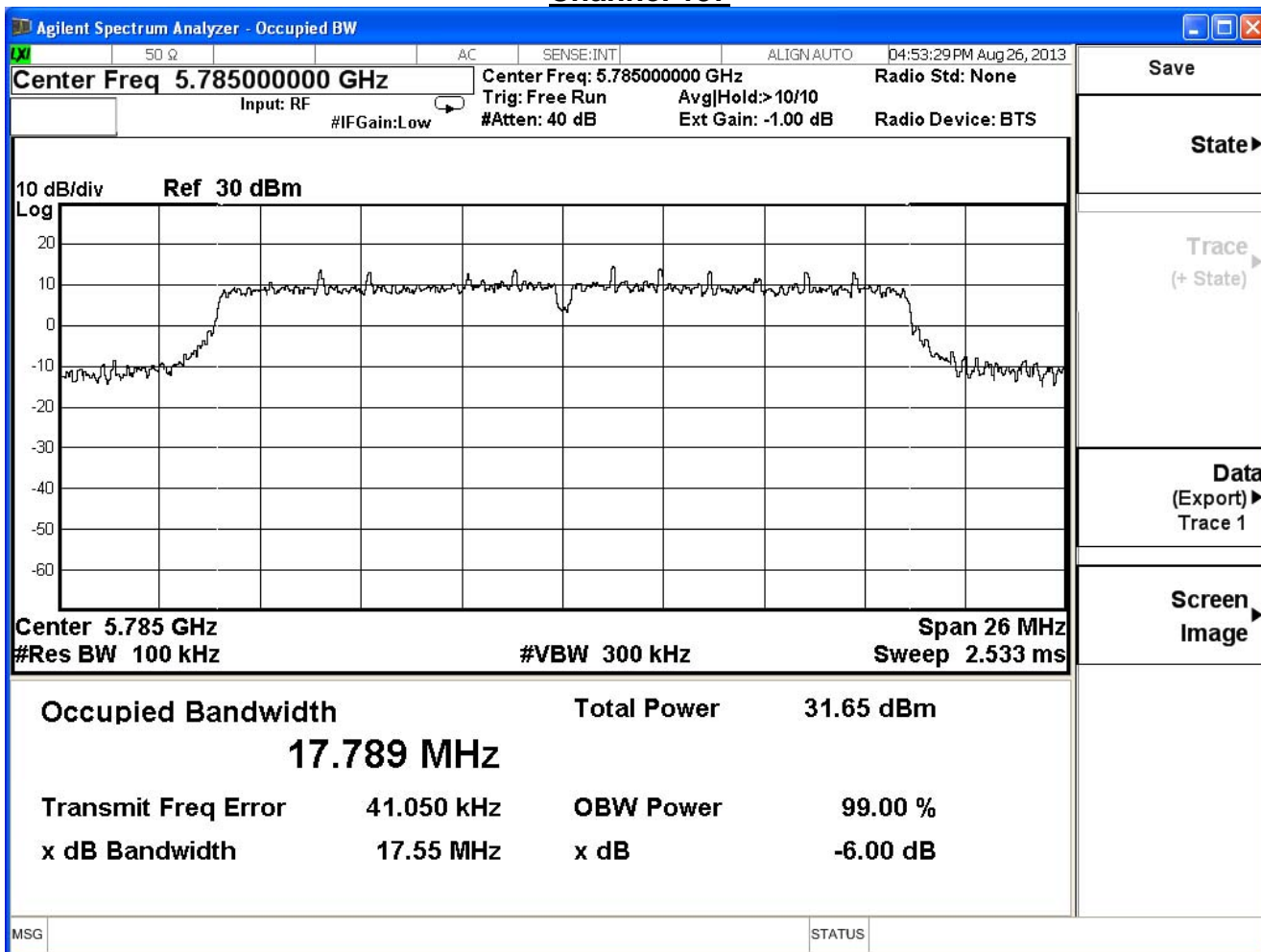
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.61	≥ 0.5	Pass
157	5785	17.55	≥ 0.5	Pass
165	5825	17.61	≥ 0.5	Pass

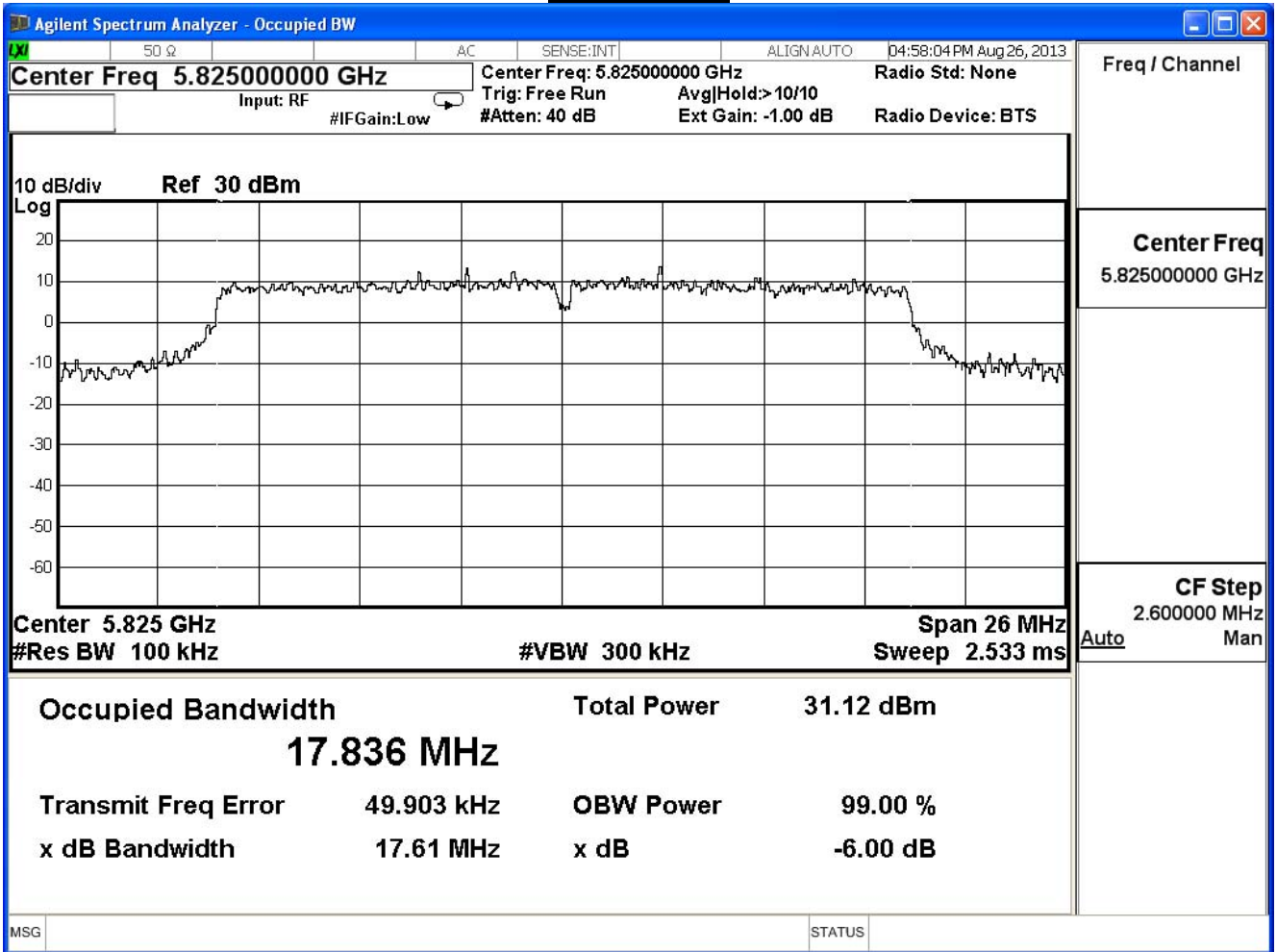
### Channel 149



## Channel 157



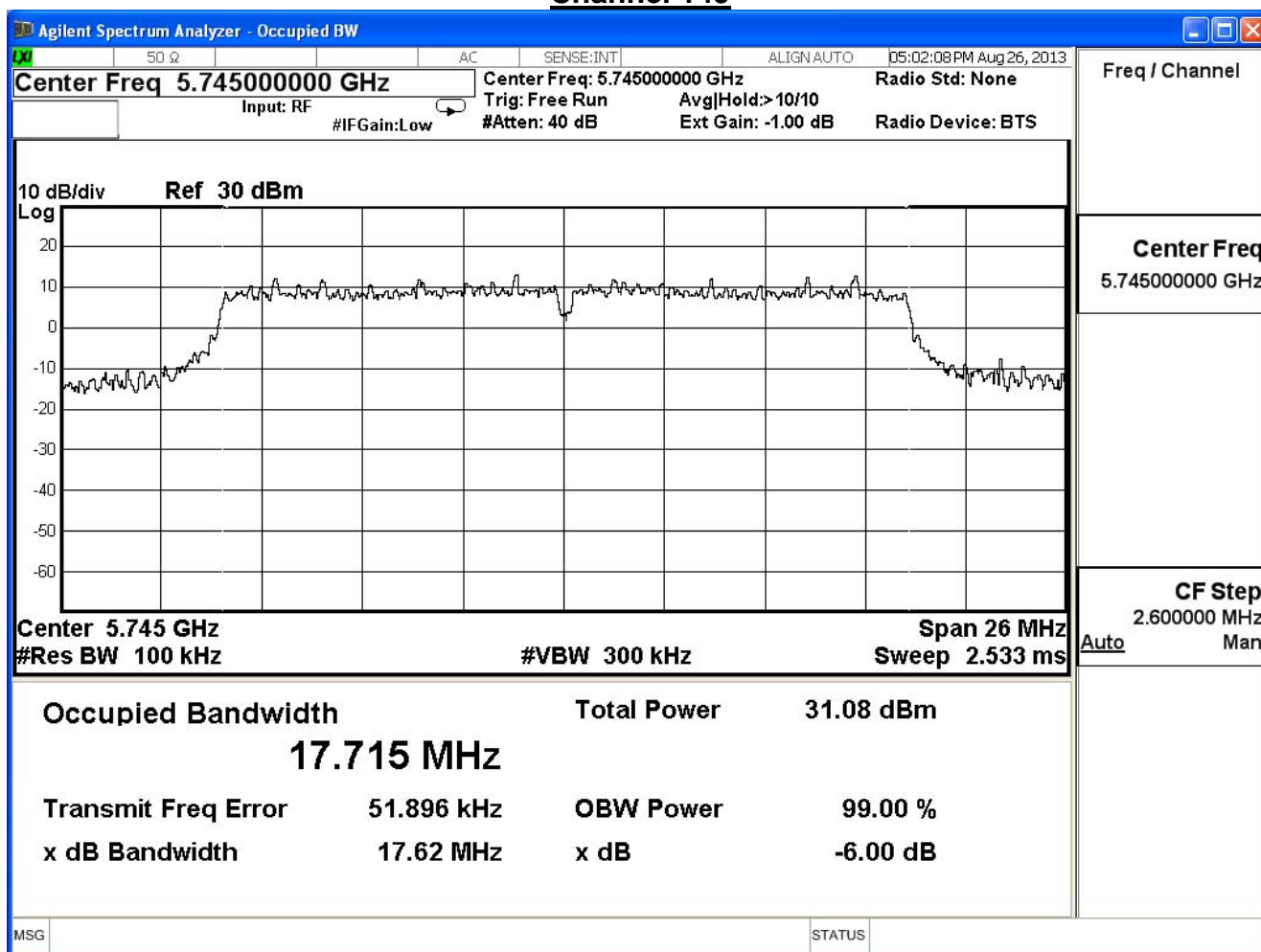
Channel 165



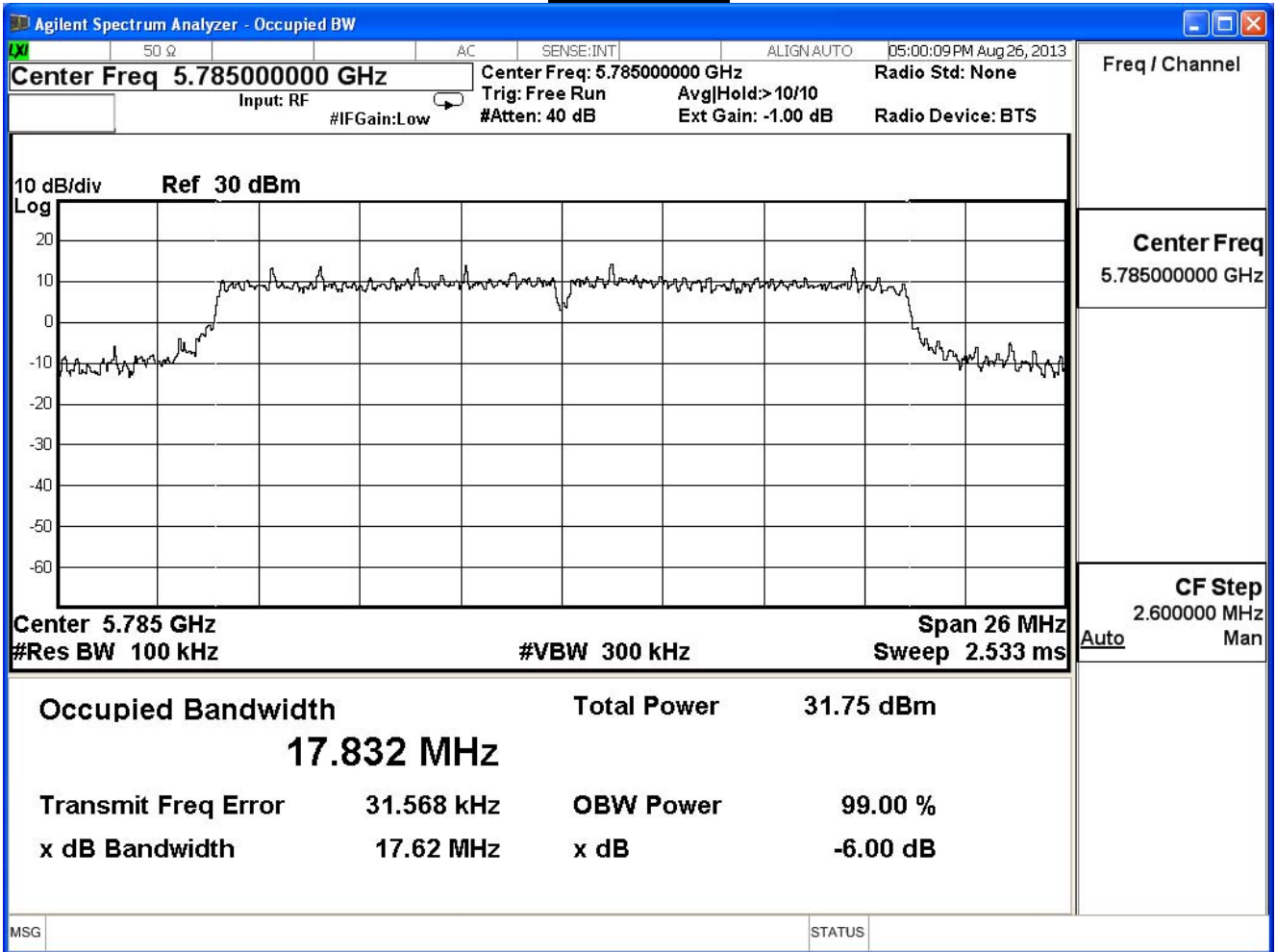
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.62	≥ 0.5	Pass
157	5785	17.62	≥ 0.5	Pass
165	5825	17.63	≥ 0.5	Pass

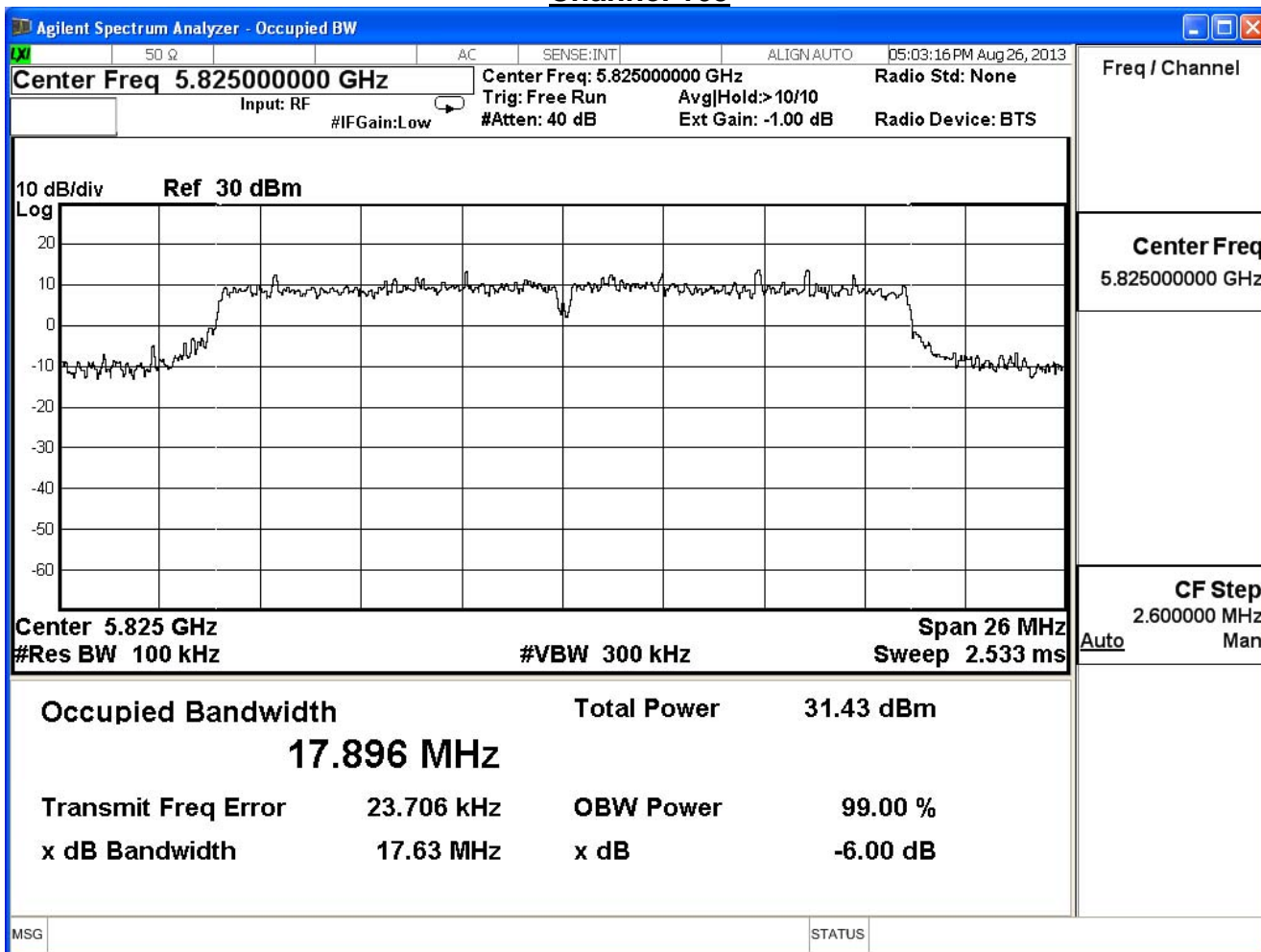
### Channel 149



Channel 157



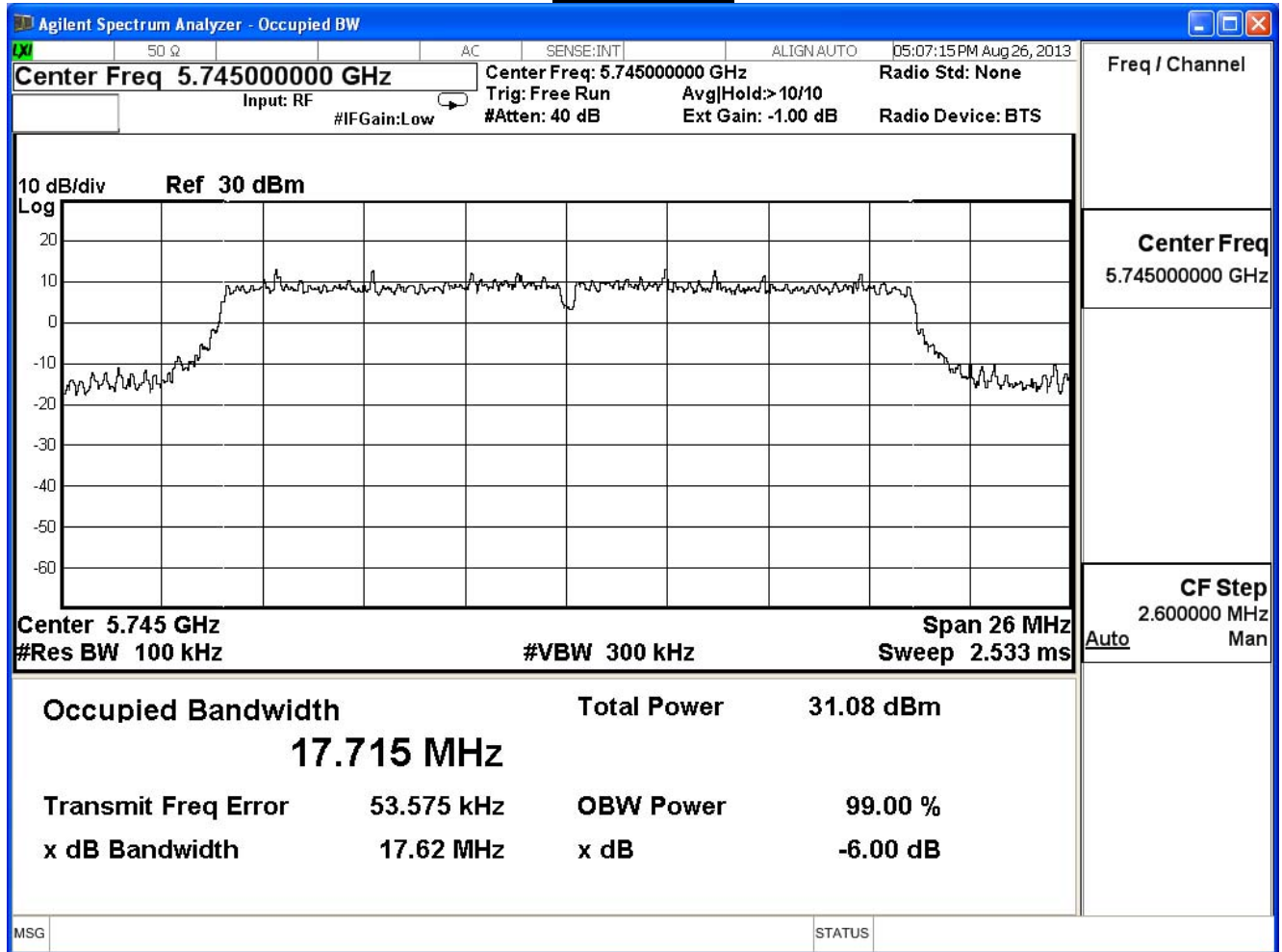
## Channel 165



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

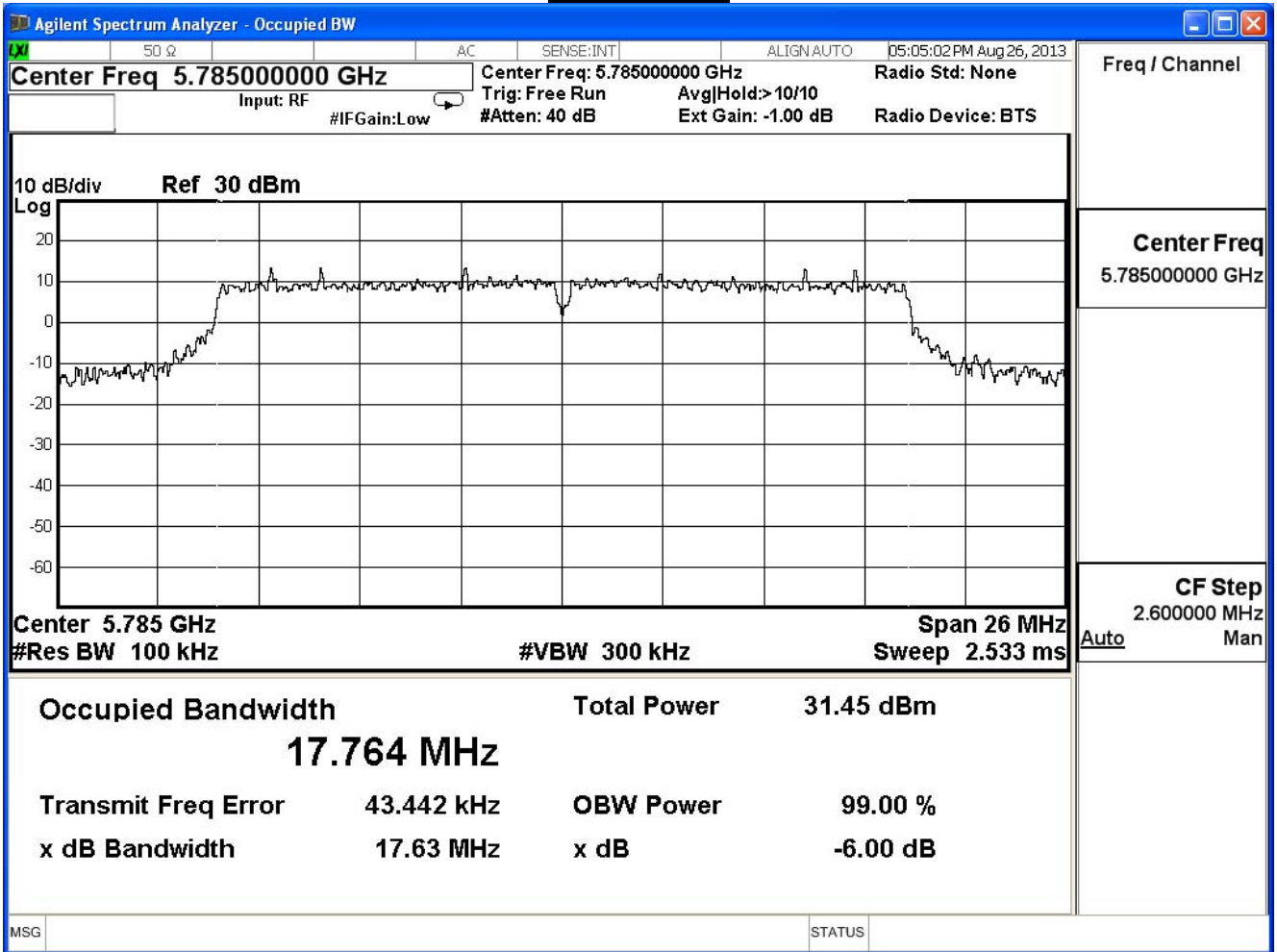
IEEE 802.11n (20MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.62	$\geq 0.5$	Pass
157	5785	17.63	$\geq 0.5$	Pass
165	5825	17.60	$\geq 0.5$	Pass

### Channel 149

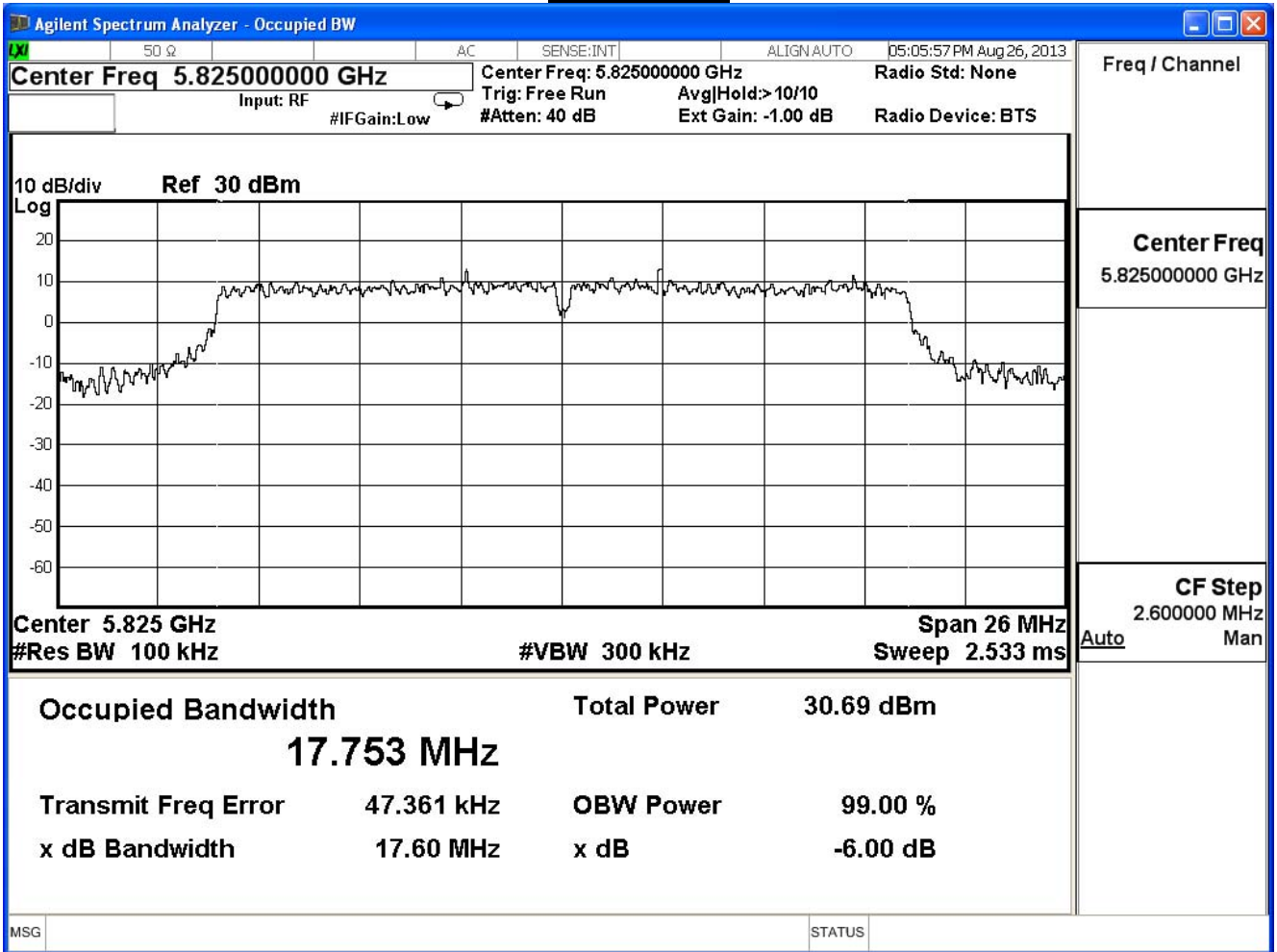




Channel 157



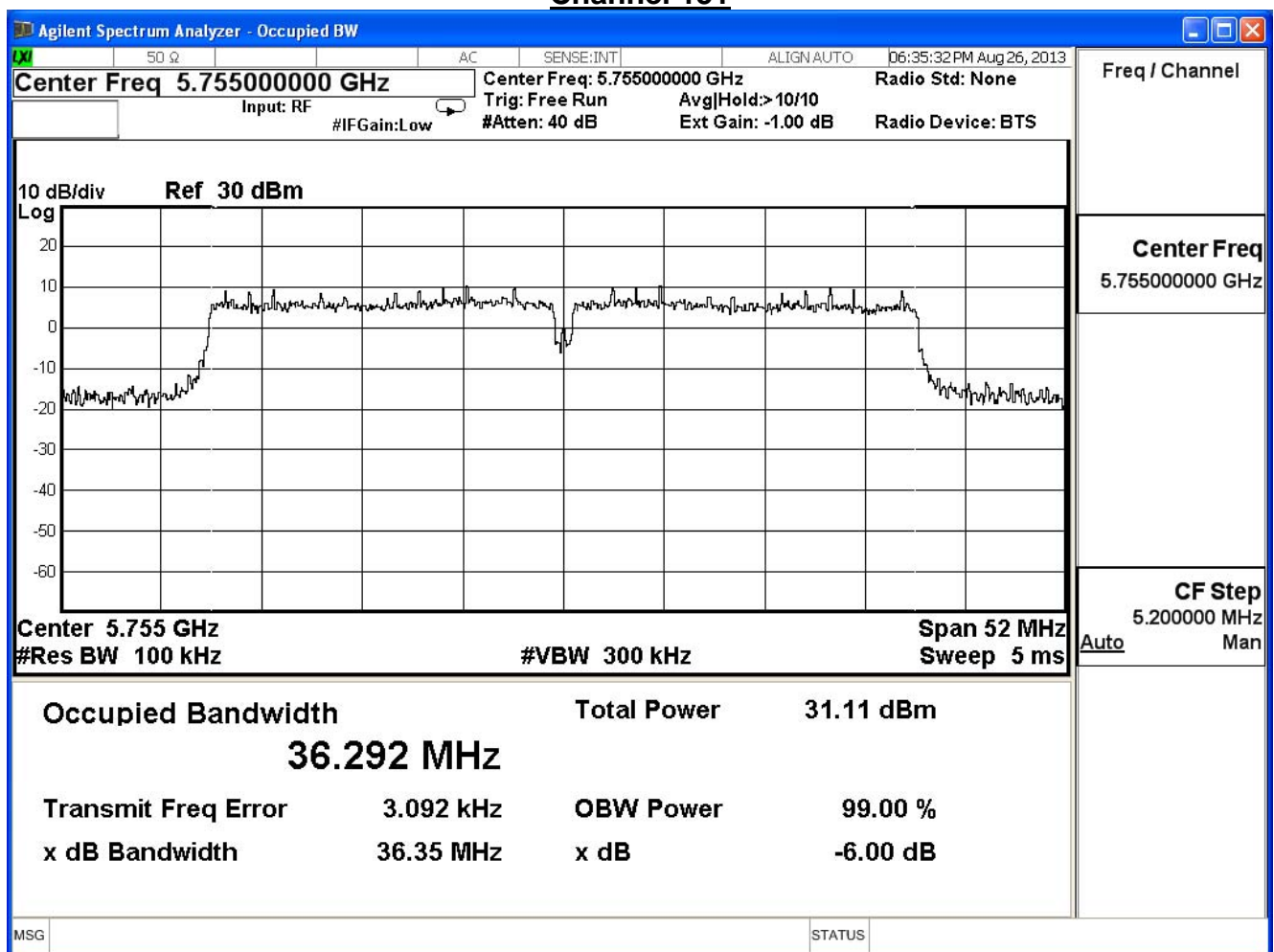
Channel 165



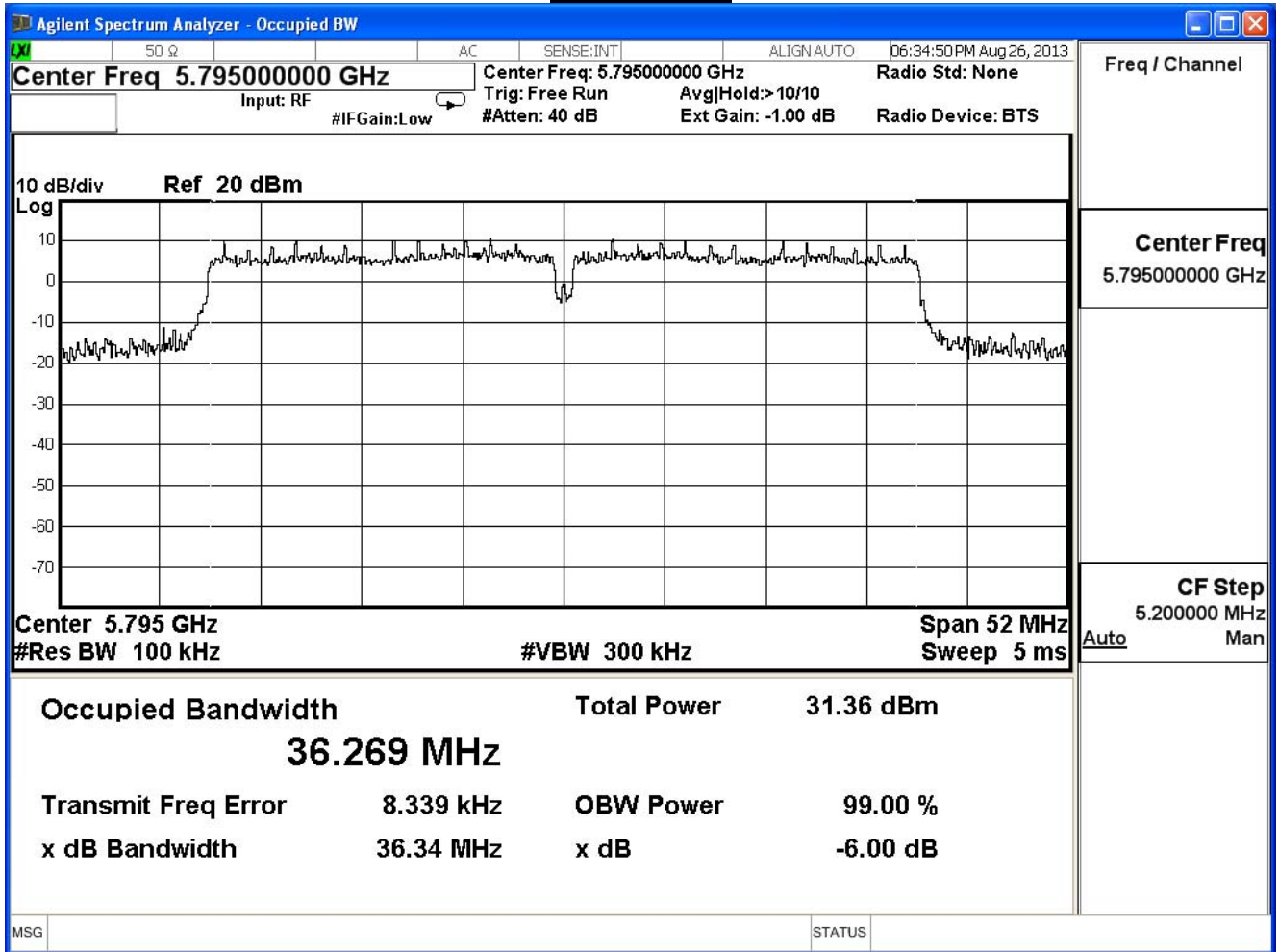
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
151	5755	36.35	$\geq 0.5$	Pass
159	5795	36.34	$\geq 0.5$	Pass

### Channel 151



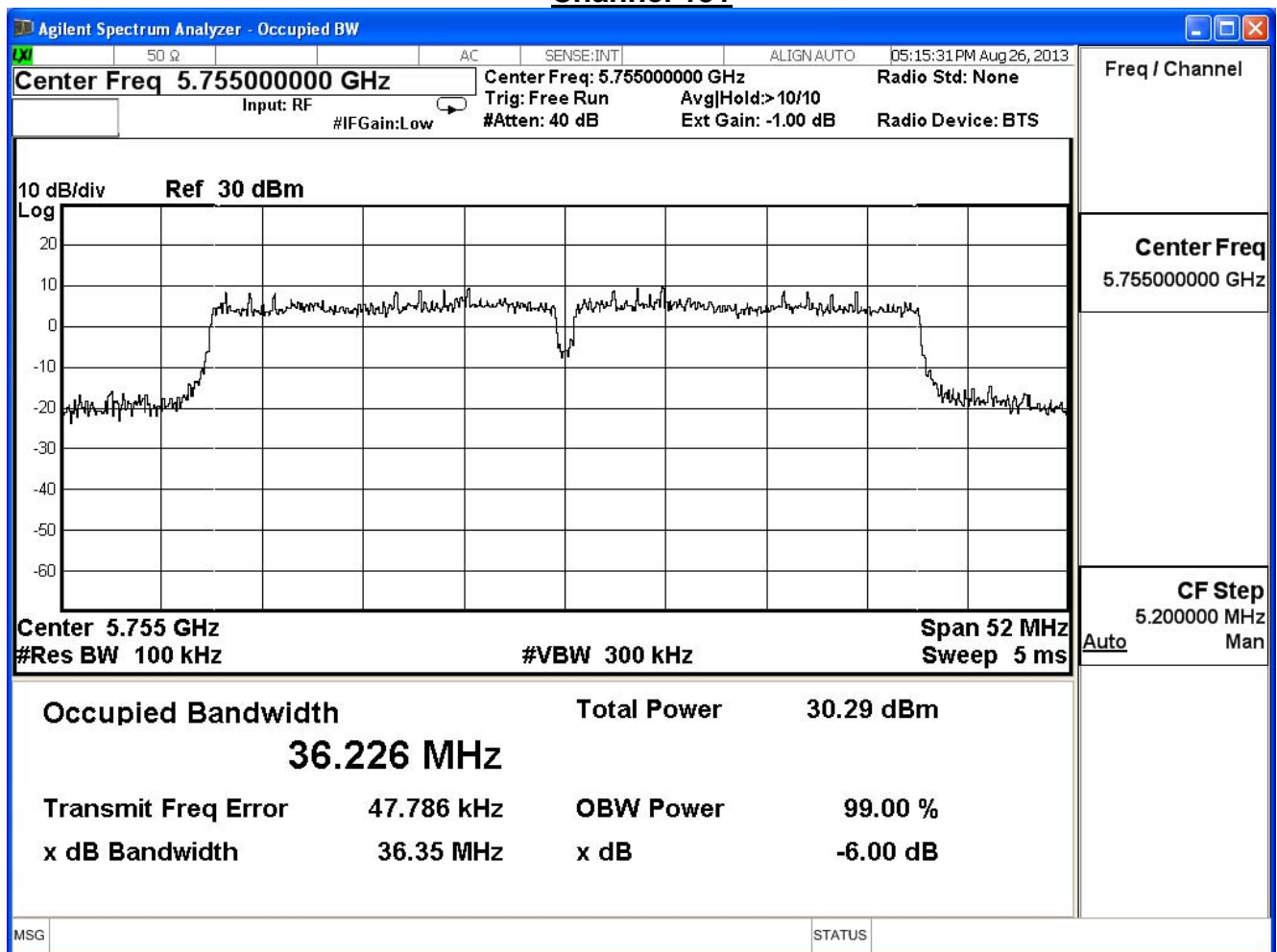
Channel 159



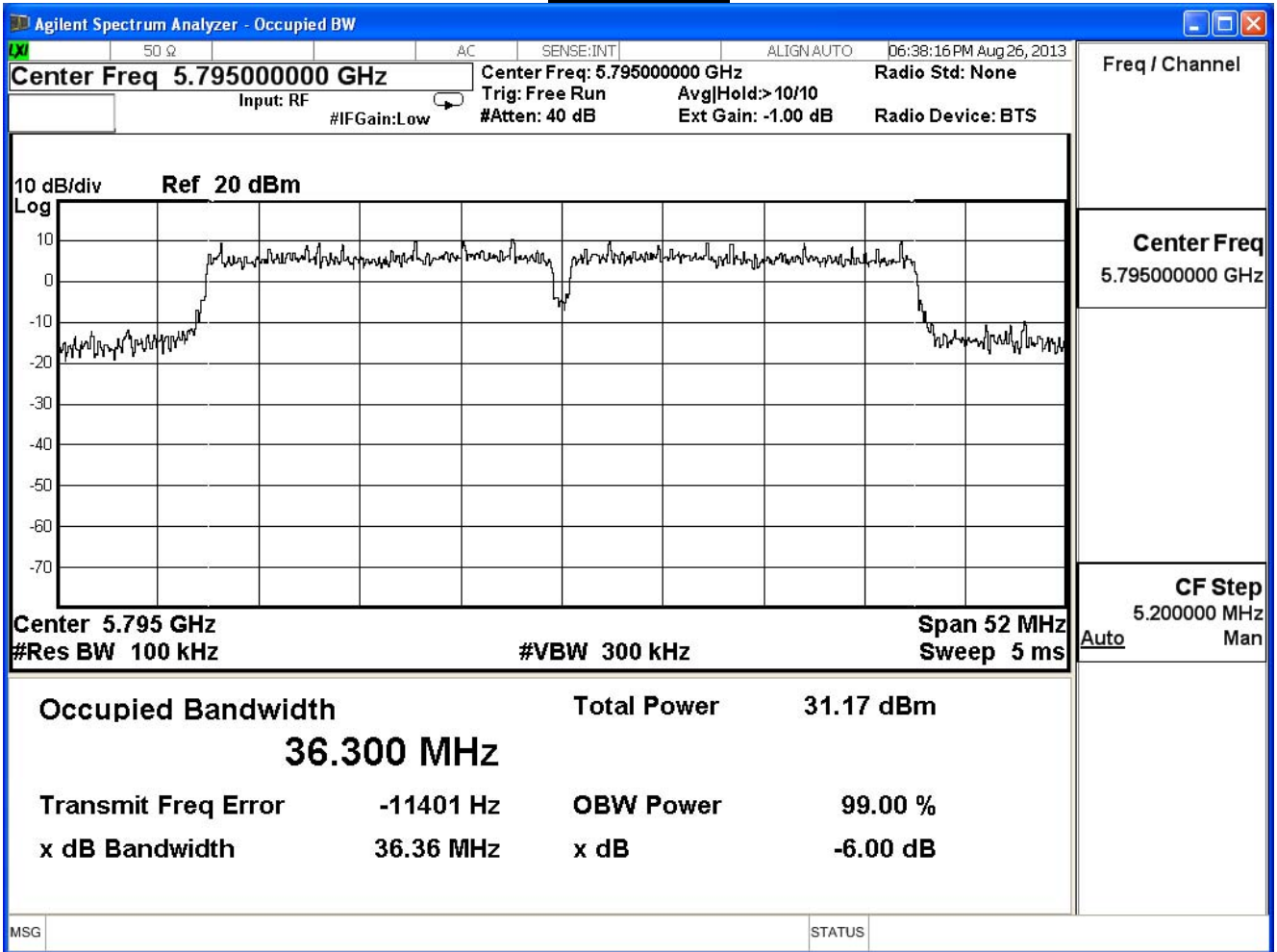
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
151	5755	36.35	$\geq 0.5$	Pass
159	5795	36.36	$\geq 0.5$	Pass

### Channel 151



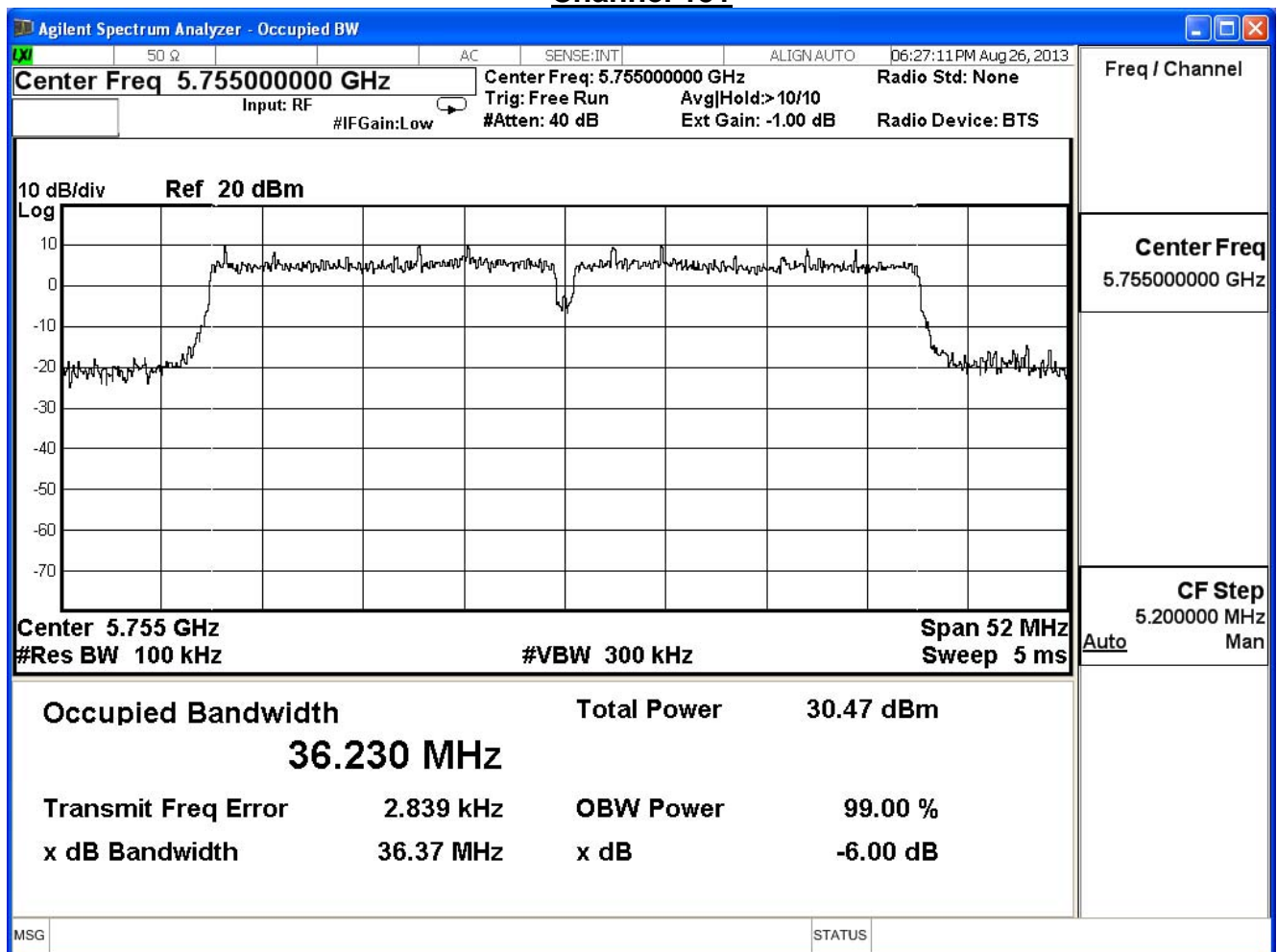
Channel 159



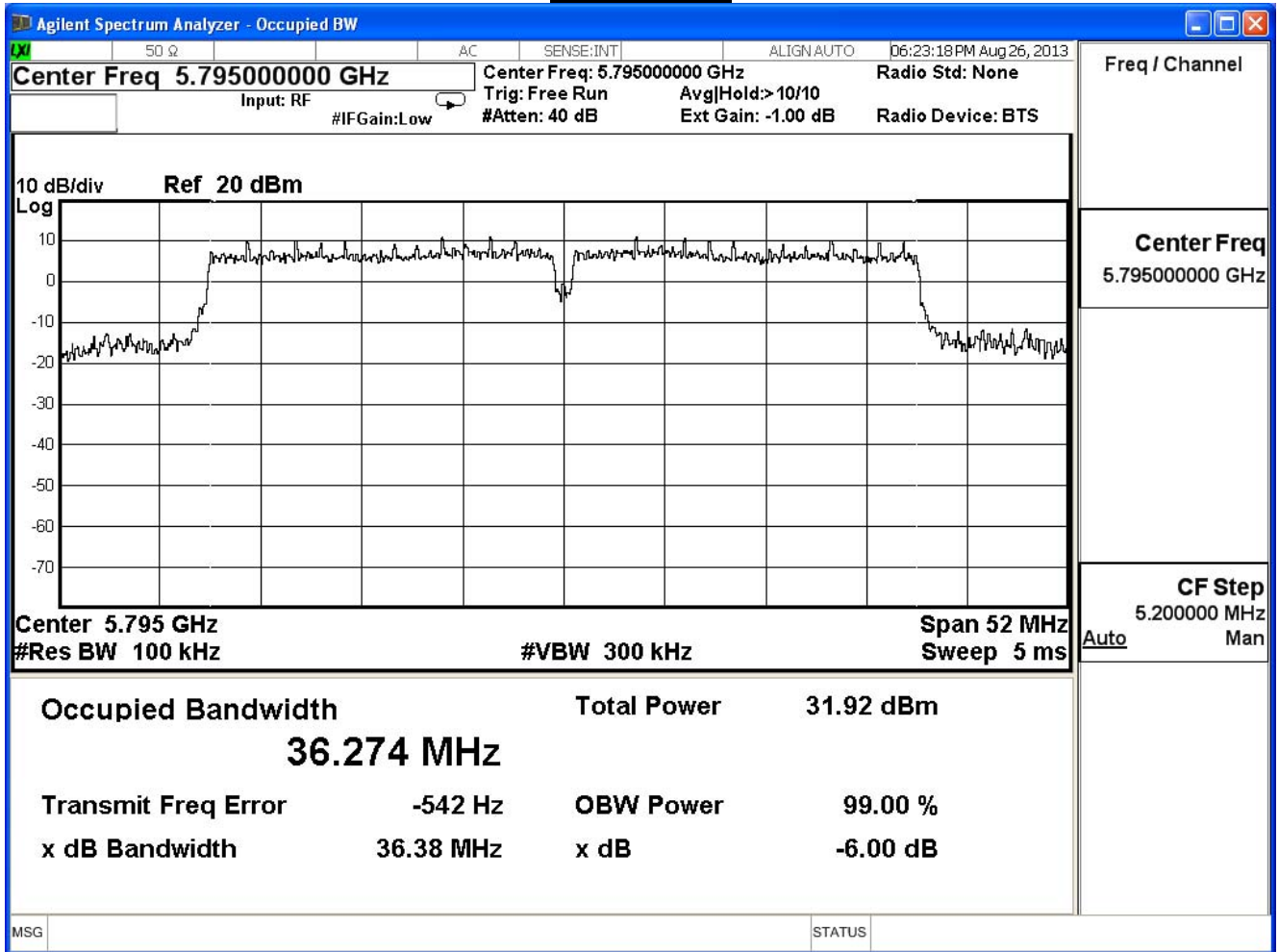
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
151	5755	36.37	≥ 0.5	Pass
159	5795	36.38	≥ 0.5	Pass

### Channel 151



Channel 159

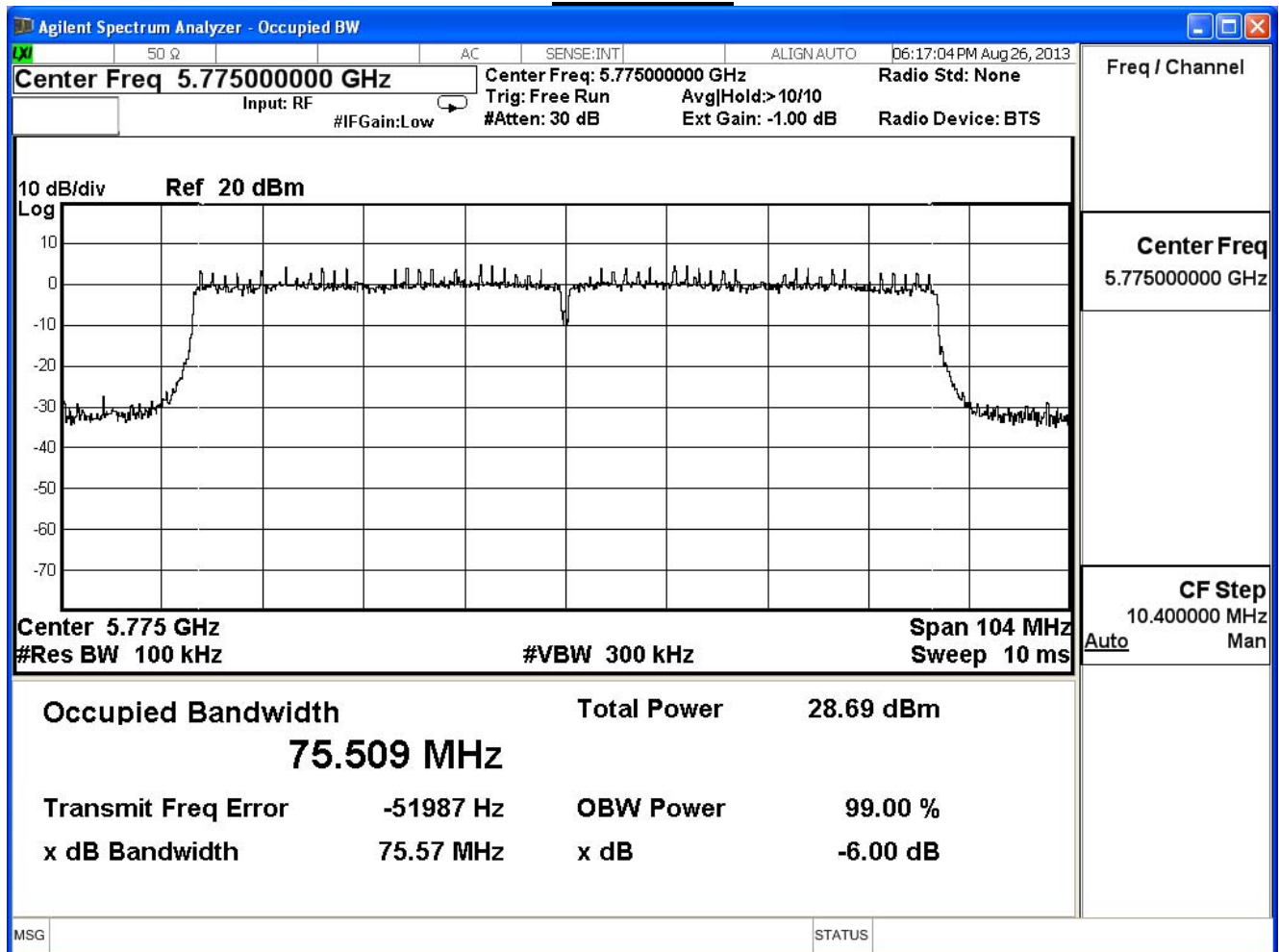




Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/27	Test Site	SR7

IEEE 802.11ac (80MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
155	5775	75.57	≥ 0.5	Pass

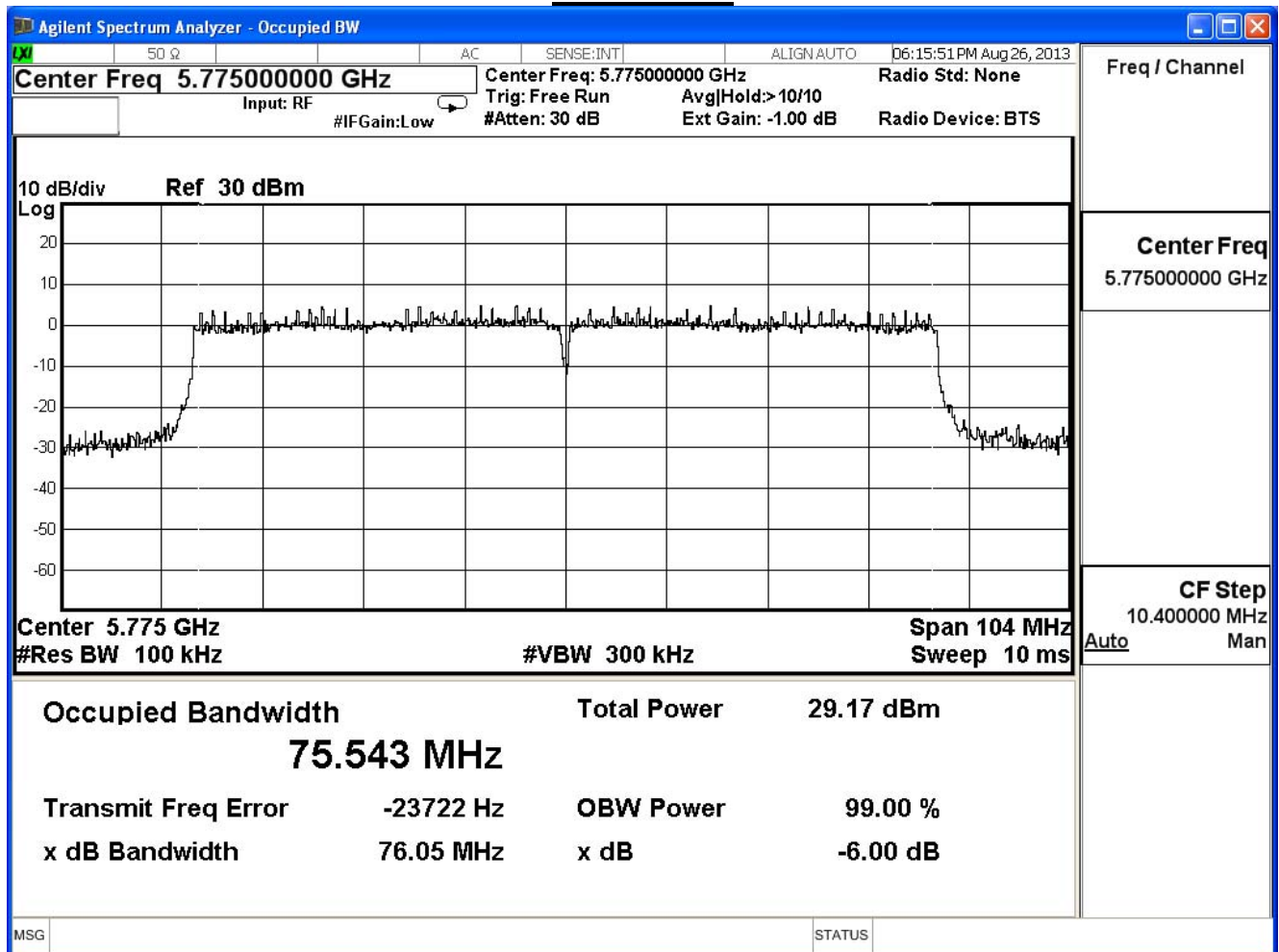
### Channel 155



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 802.11ac (80MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
155	5775	76.05	≥ 0.5	Pass

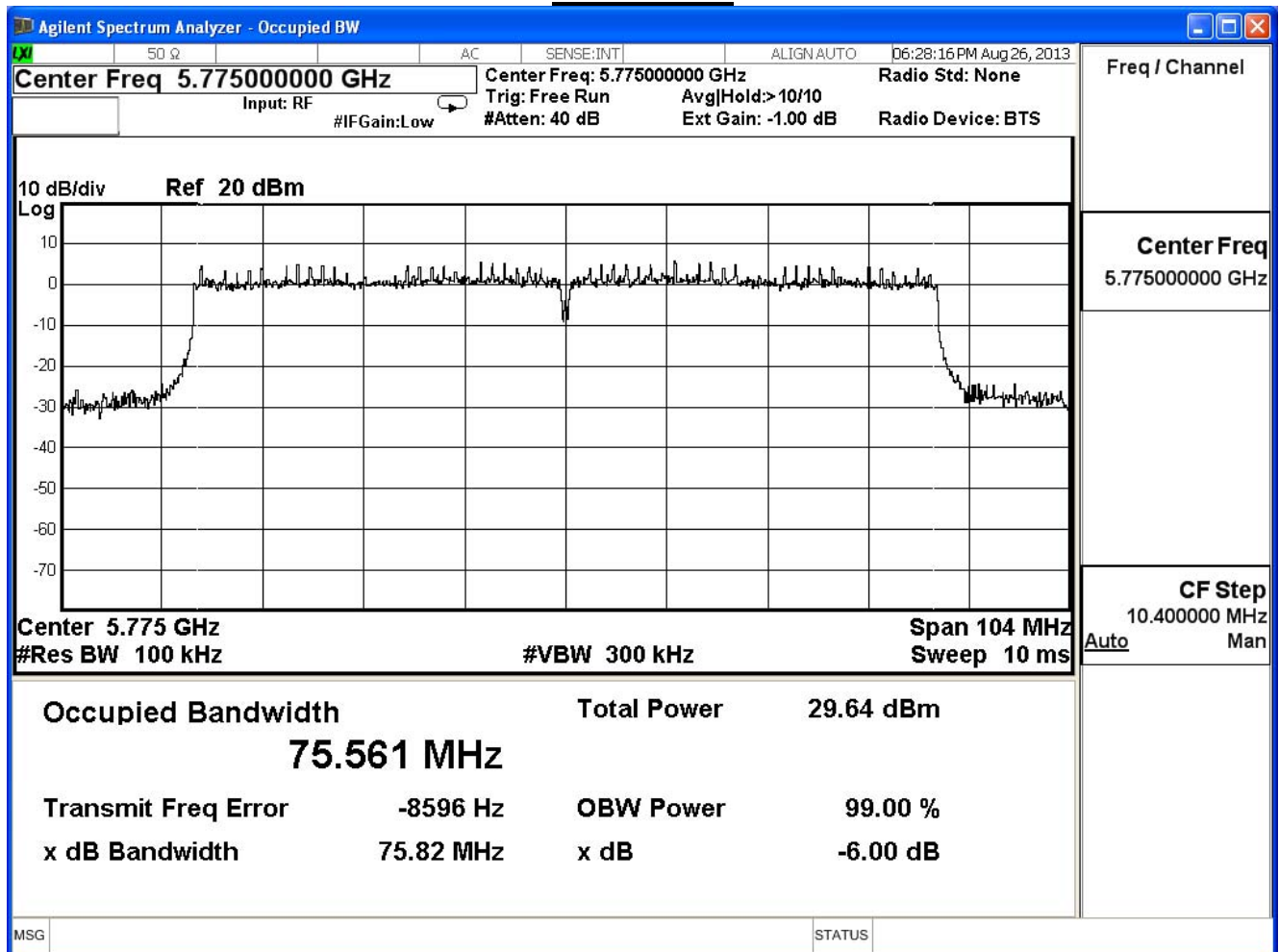
### Channel 155



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 802.11ac (80MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
155	5775	75.82	≥ 0.5	Pass

### Channel 155



**8. Power Density**

**8.1. Test Equipment**

The following test equipment is used during the test:

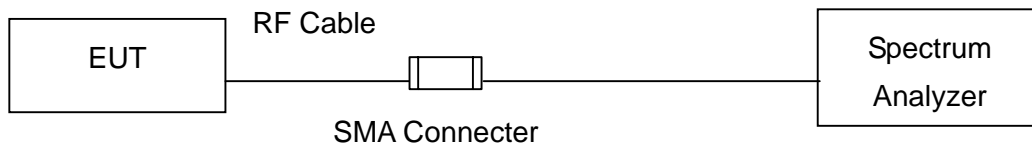
**Power Density / SR7**

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.

**8.2. Test Setup**

IEEE 802.11 b / g / a / n ( 20M / 40M ) MODE



**8.3. Limits**

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

**8.4. Test Procedures**

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Oct. 2012 KDB558074, Section 9.2 Measurement Procedure option2 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 100 kHz, Set VBW= 300 kHz, Sweep time=Auto, Set detector=Peak detector. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where  $BWCF = 10\log (3 \text{ kHz}/100 \text{ kHz} = -15.2 \text{ dB})$ .

**8.5. Test Specification**

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

**8.6. Uncertainty**

The measurement uncertainty is defined as  $\pm 1.27\text{dB}$ .

8.7. Test Result

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

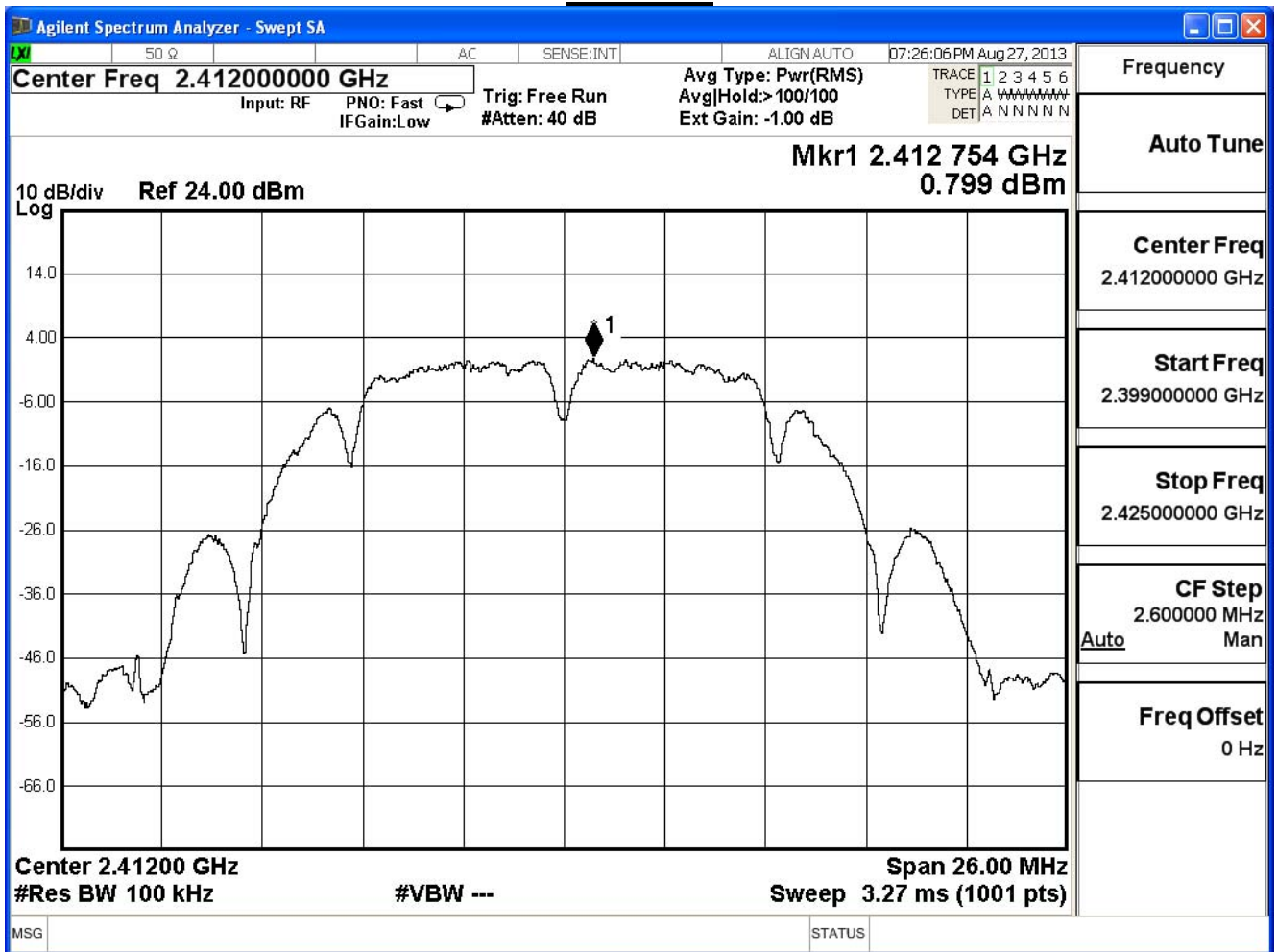
IEEE 802.11b (ANT0)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	0.80	-14.40	≤ 7.32	Pass
6	2437	1.74	-13.46	≤ 7.32	Pass
11	2462	3.13	-12.07	≤ 7.32	Pass

Note:

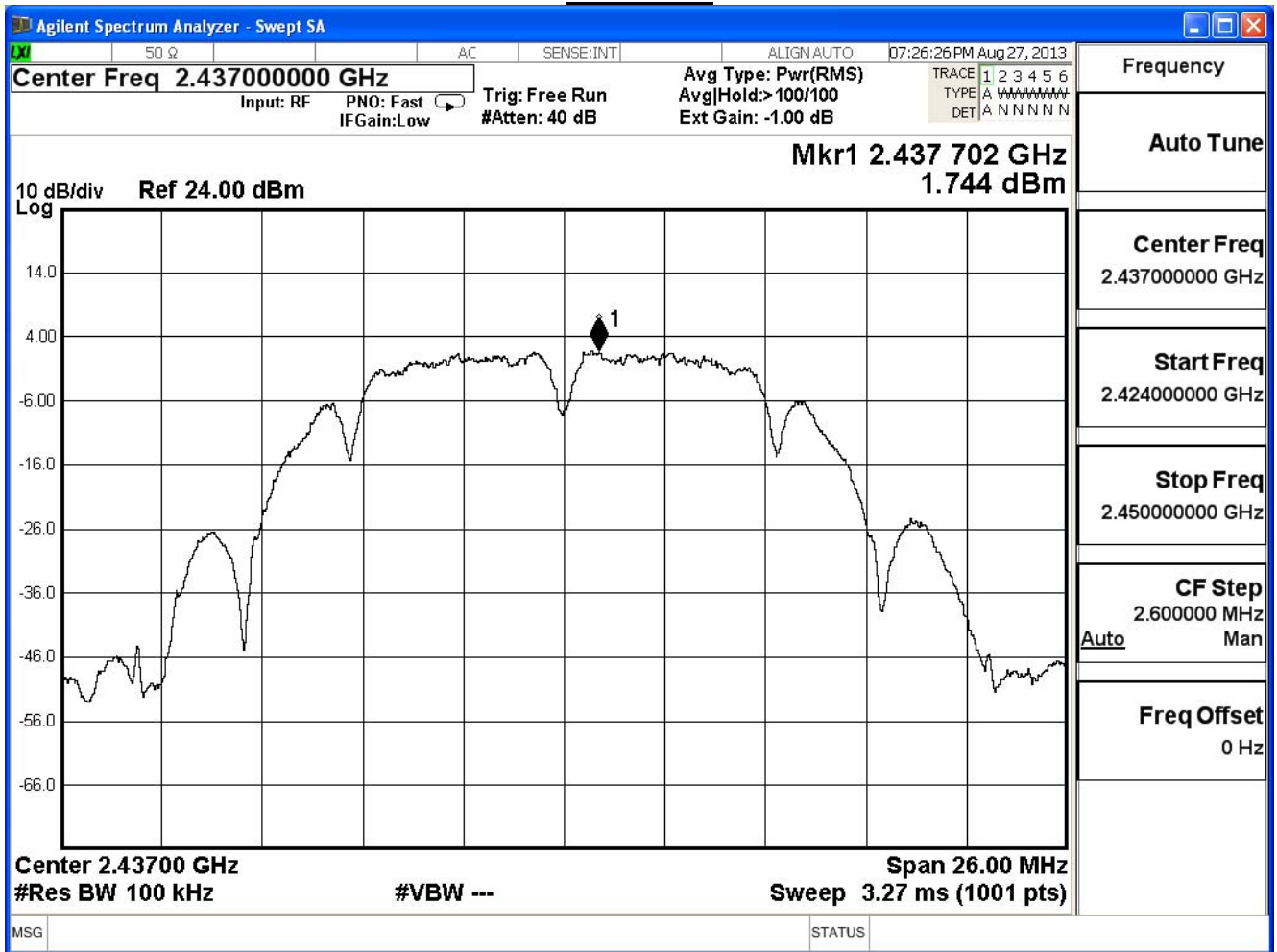
Total Gain :  $10\log(3) + \text{max Gain} = 6.68$

Required Limit =  $8\text{dBm} - (6.68 - 6\text{dBi}) = 7.32$

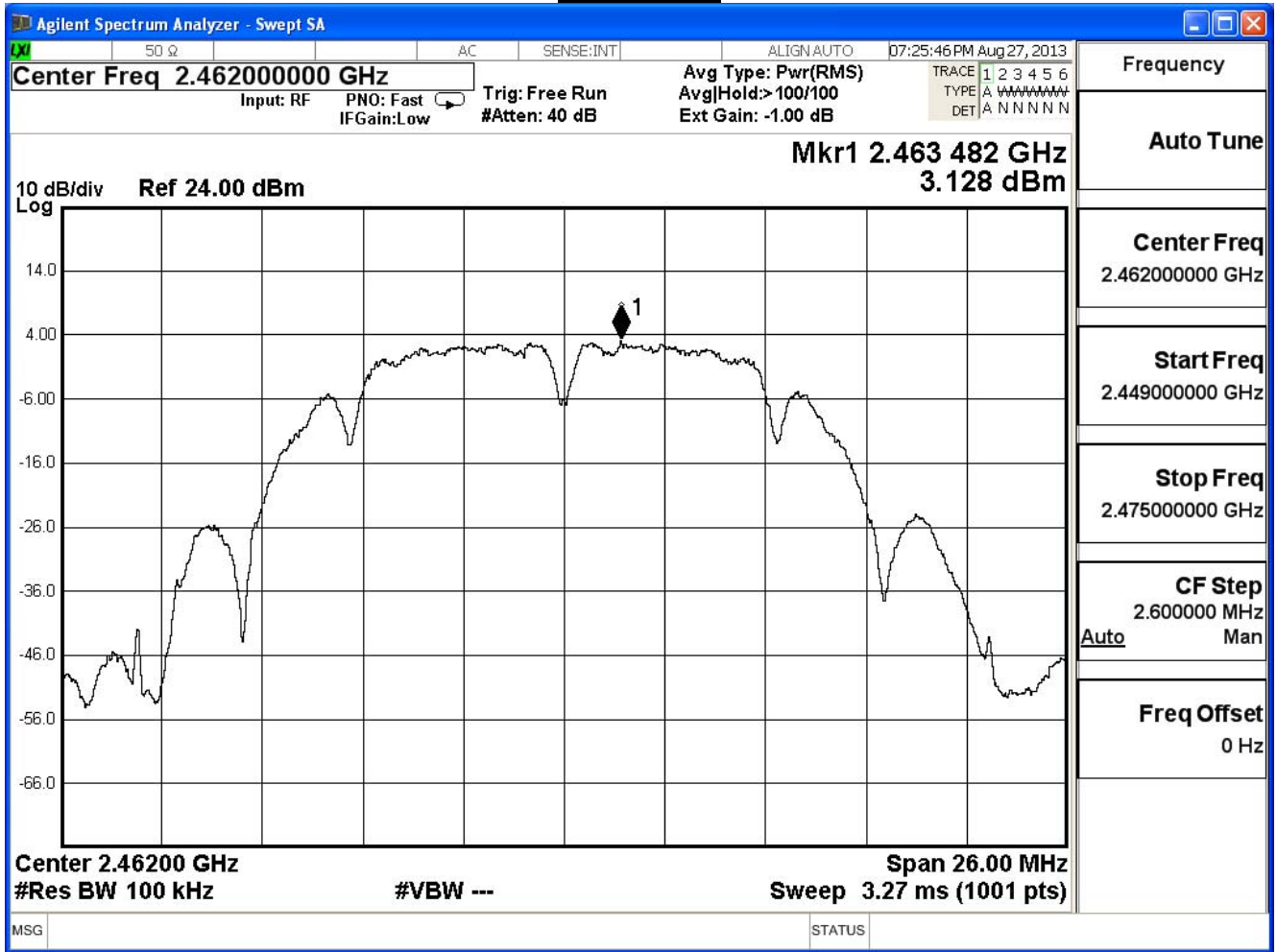
Channel 1



Channel 6



Channel 11



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

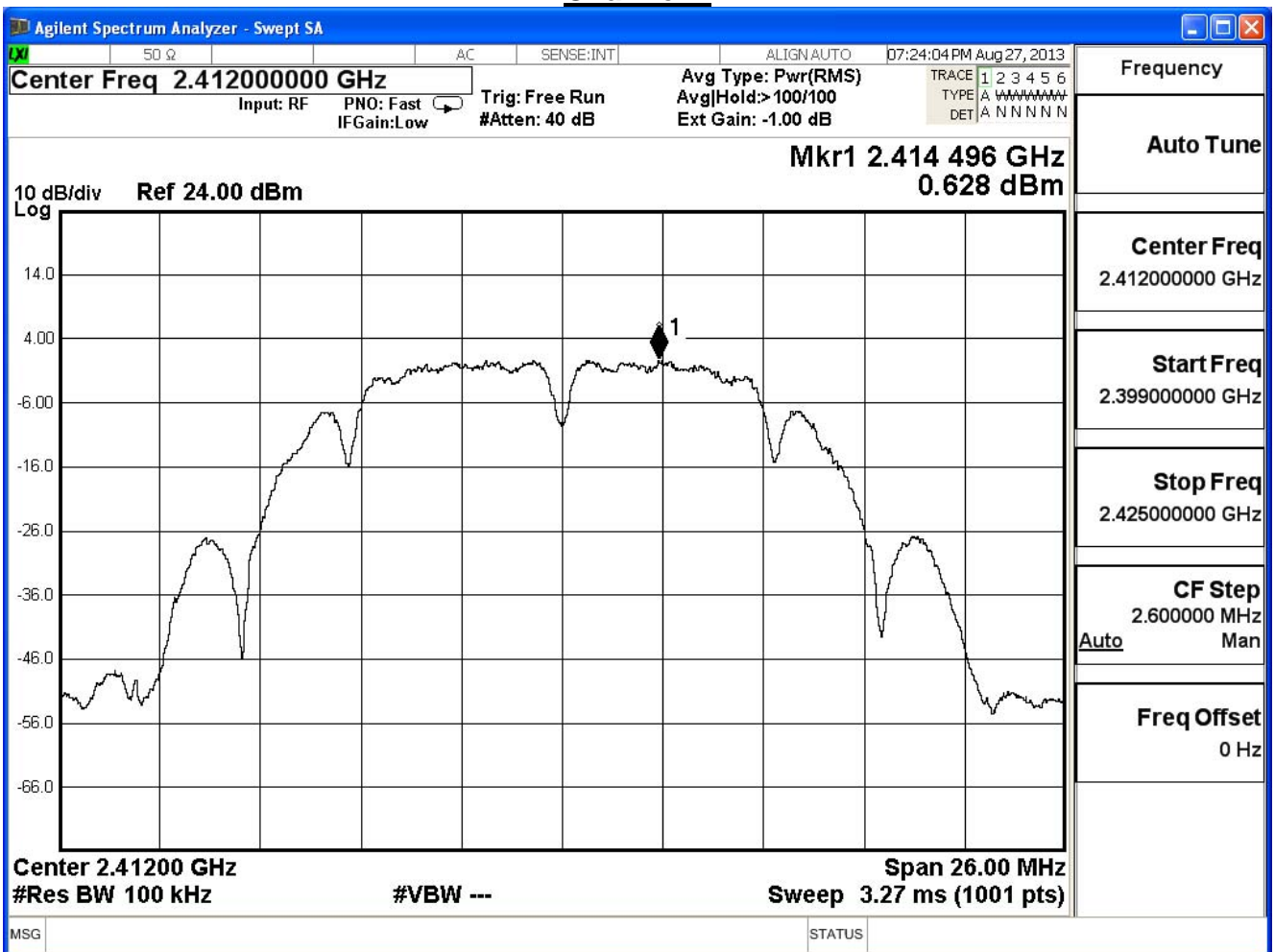
IEEE 802.11b (ANT1)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	0.63	-14.57	≤ 7.32	Pass
6	2437	1.26	-13.94	≤ 7.32	Pass
11	2462	2.57	-12.63	≤ 7.32	Pass

Note:

Total Gain :  $10\log(3) + \text{max Gain} = 6.68$

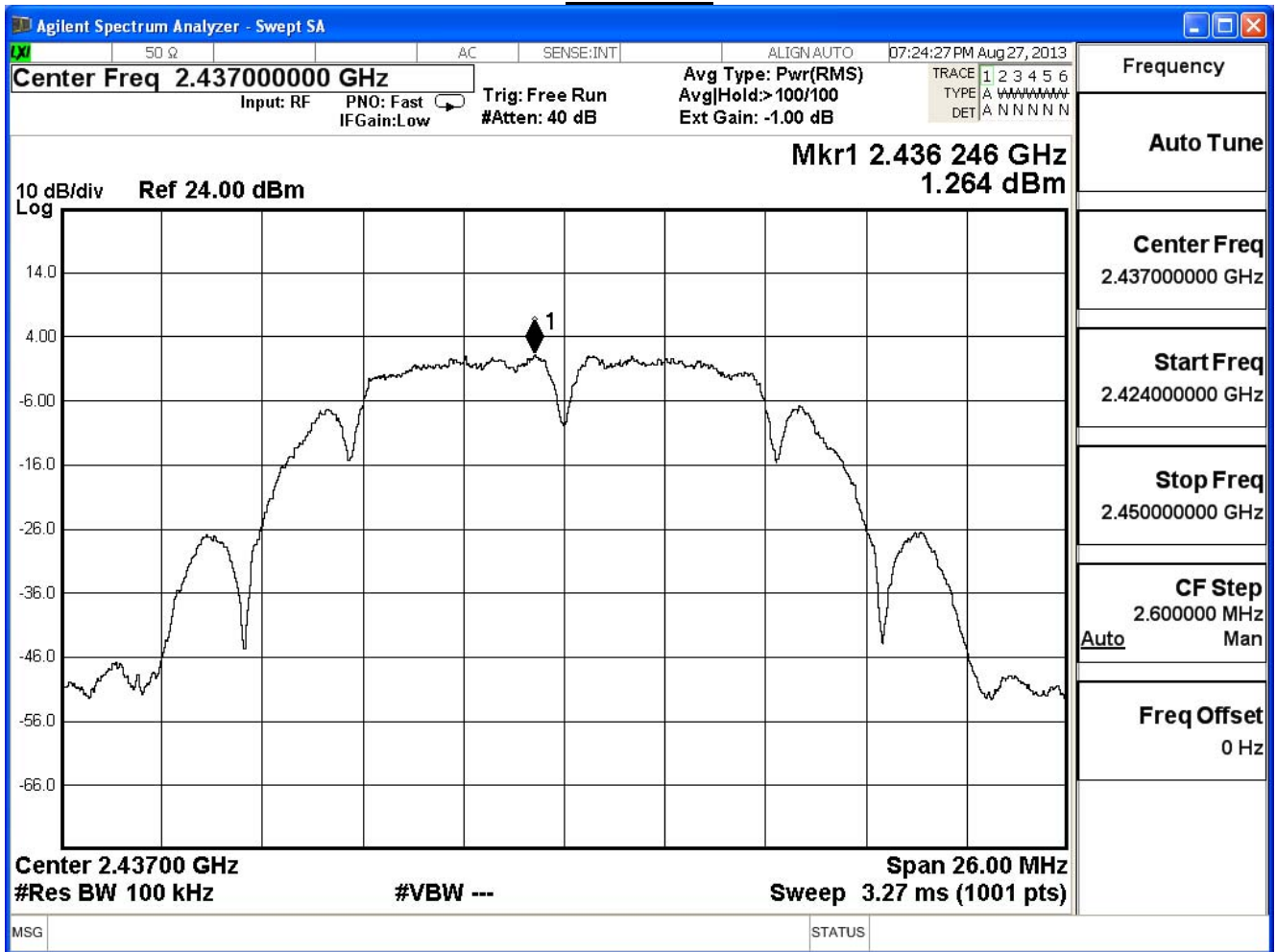
Required Limit =  $8\text{dBm} - (6.68 - 6\text{dBi}) = 7.32$

### Channel 1

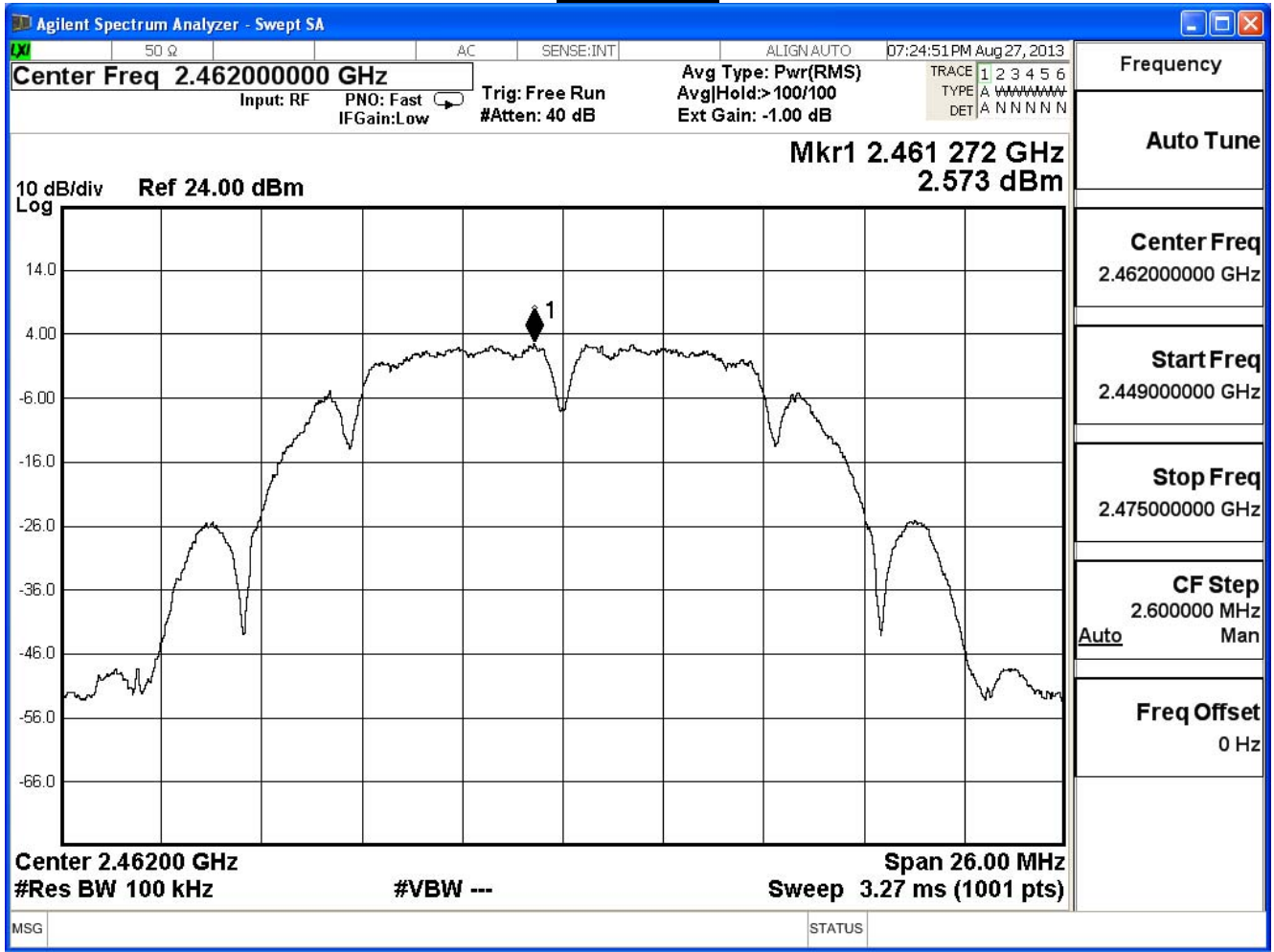




Channel 6



Channel 11



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

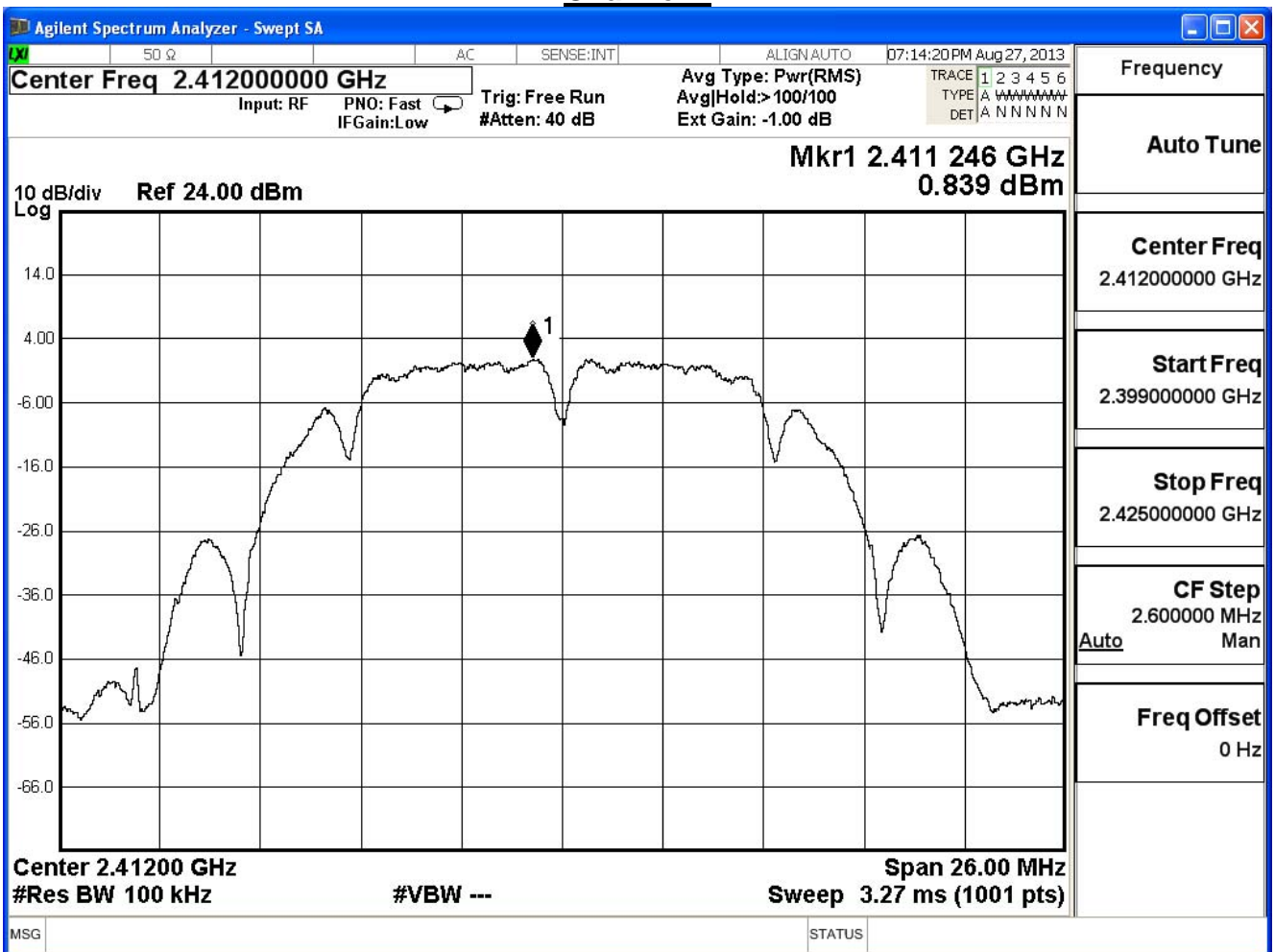
IEEE 802.11b (ANT2)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	0.84	-14.36	≤ 7.32	Pass
6	2437	1.56	-13.64	≤ 7.32	Pass
11	2462	2.46	-12.74	≤ 7.32	Pass

Note:

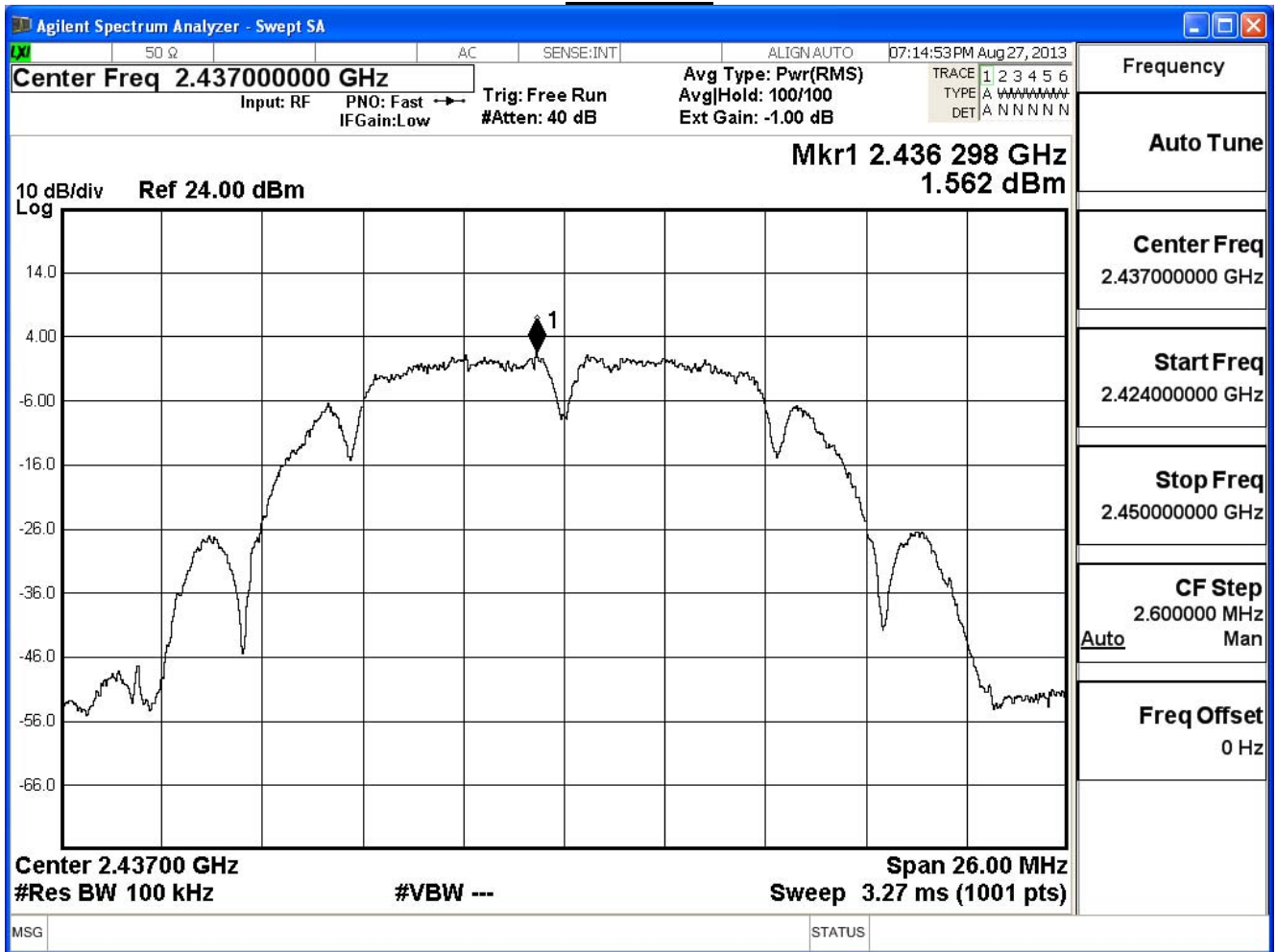
Total Gain :  $10\log(3) + \text{max Gain} = 6.68$

Required Limit =  $8\text{dBm} - (6.68 - 6\text{dBi}) = 7.32$

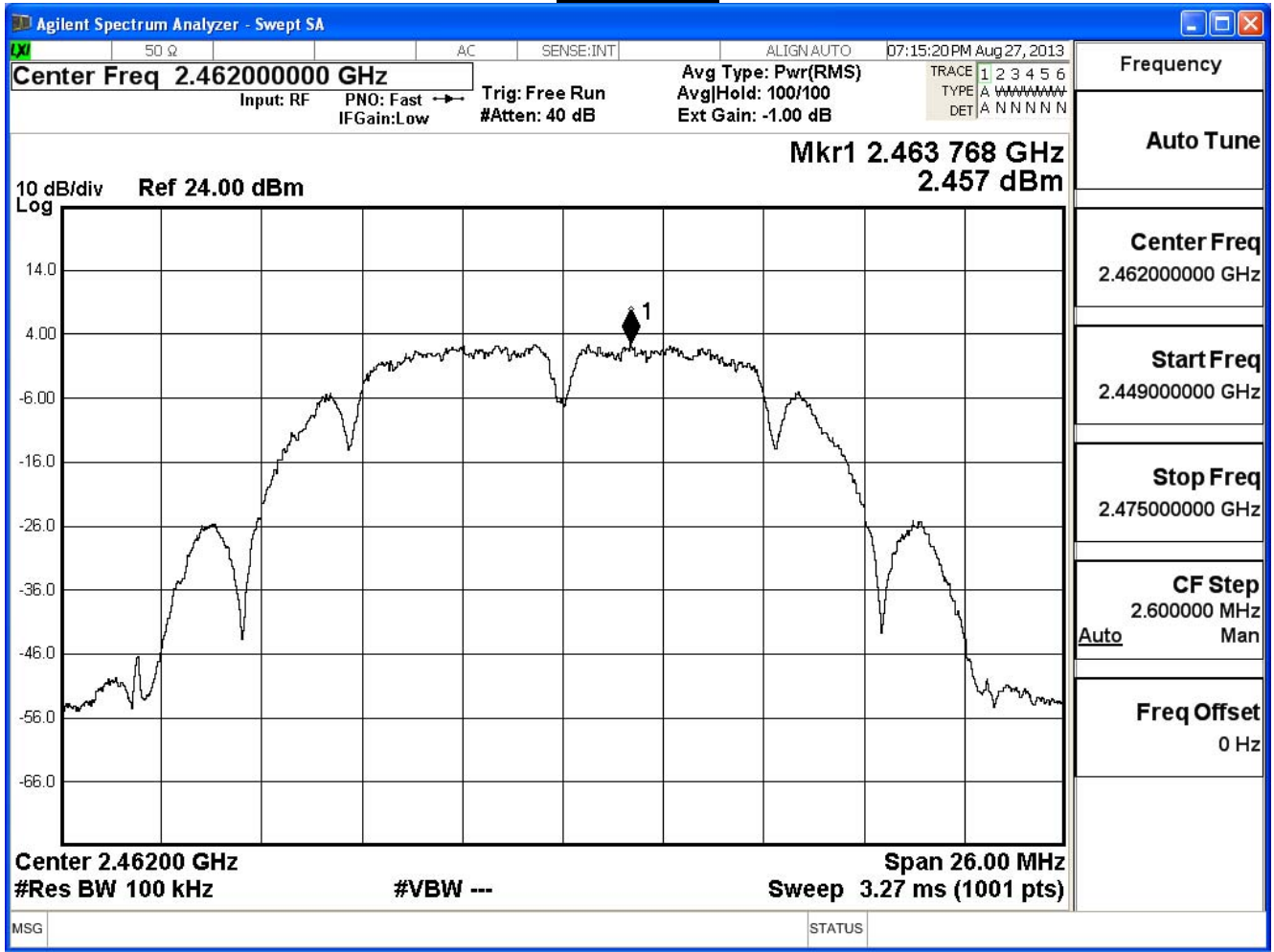
### Channel 1



Channel 6



Channel 11



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11b (ANT0+1+2)				
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	-9.67	≤ 7.32	Pass
6	2437	-8.90	≤ 7.32	Pass
11	2462	-7.70	≤ 7.32	Pass

Note:

Total Gain :  $10\log(3) + \text{max Gain} = 6.68$

Required Limit =  $8\text{dBm} - (6.68 - 6\text{dBi}) = 7.32$

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

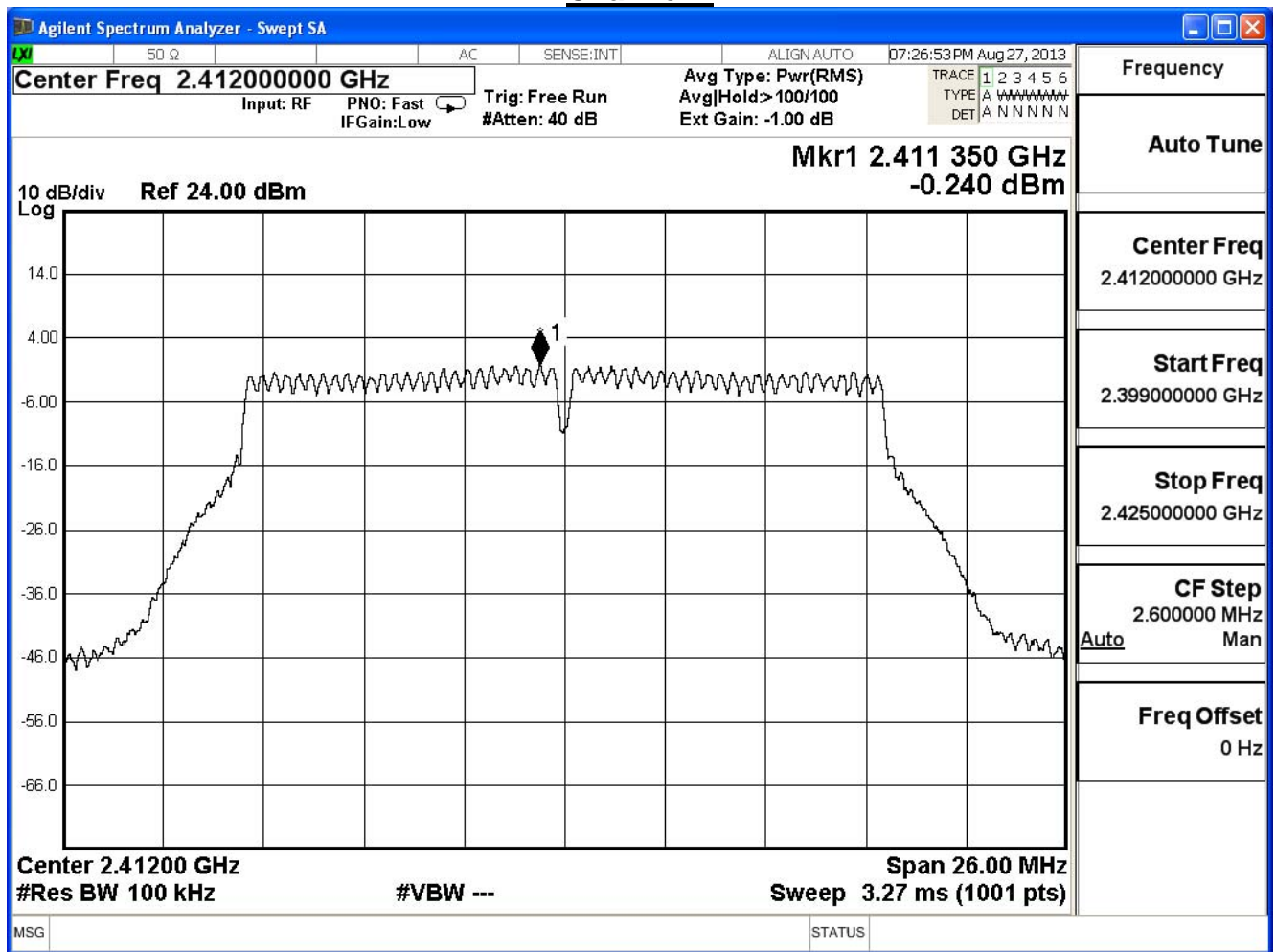
IEEE 802.11g (ANT0)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-0.24	-15.44	≤ 7.32	Pass
6	2437	5.38	-9.82	≤ 7.32	Pass
11	2462	1.69	-13.51	≤ 7.32	Pass

Note:

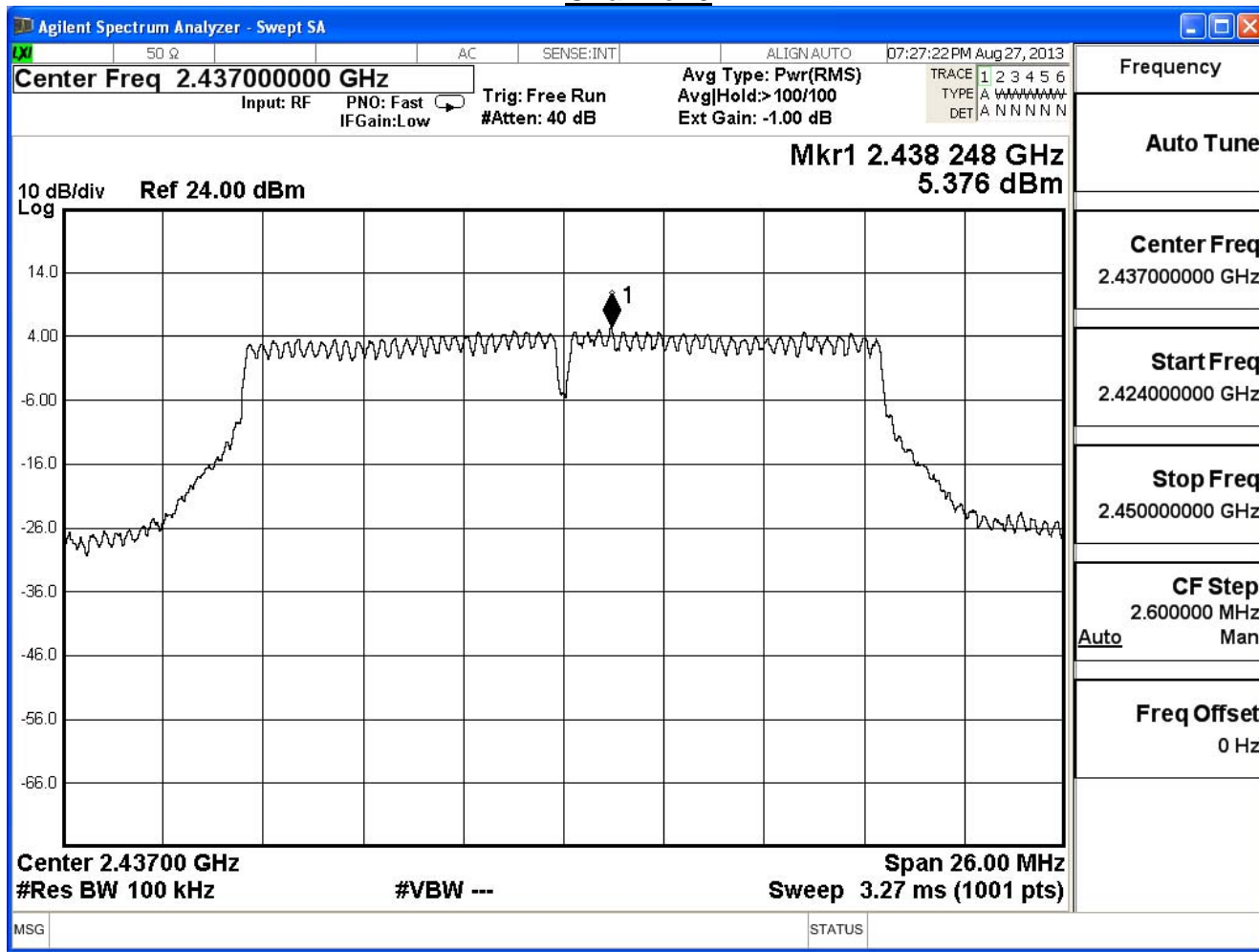
Total Gain :  $10\log(3) + \text{max Gain} = 6.68$

Required Limit =  $8\text{dBm} - (6.68 - 6\text{dBi}) = 7.32$

### Channel 1



Channel 6





Channel 11

