8. Occupied Bandwidth

8.1. Test Equipment

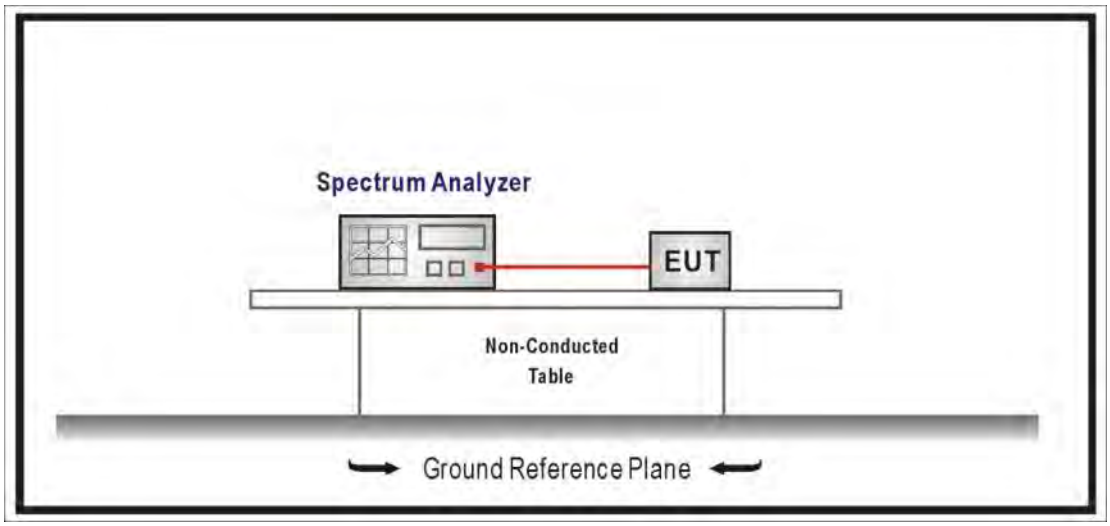
The following test equipments are used during the test:

Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08

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

8.2. Test Setup



8.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 v03r05 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 1-5% of the OBW, Set the VBW≧3xRBW, Sweep Time=Auto.

8.4. Limits

N/A

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

8.6. Uncertainty

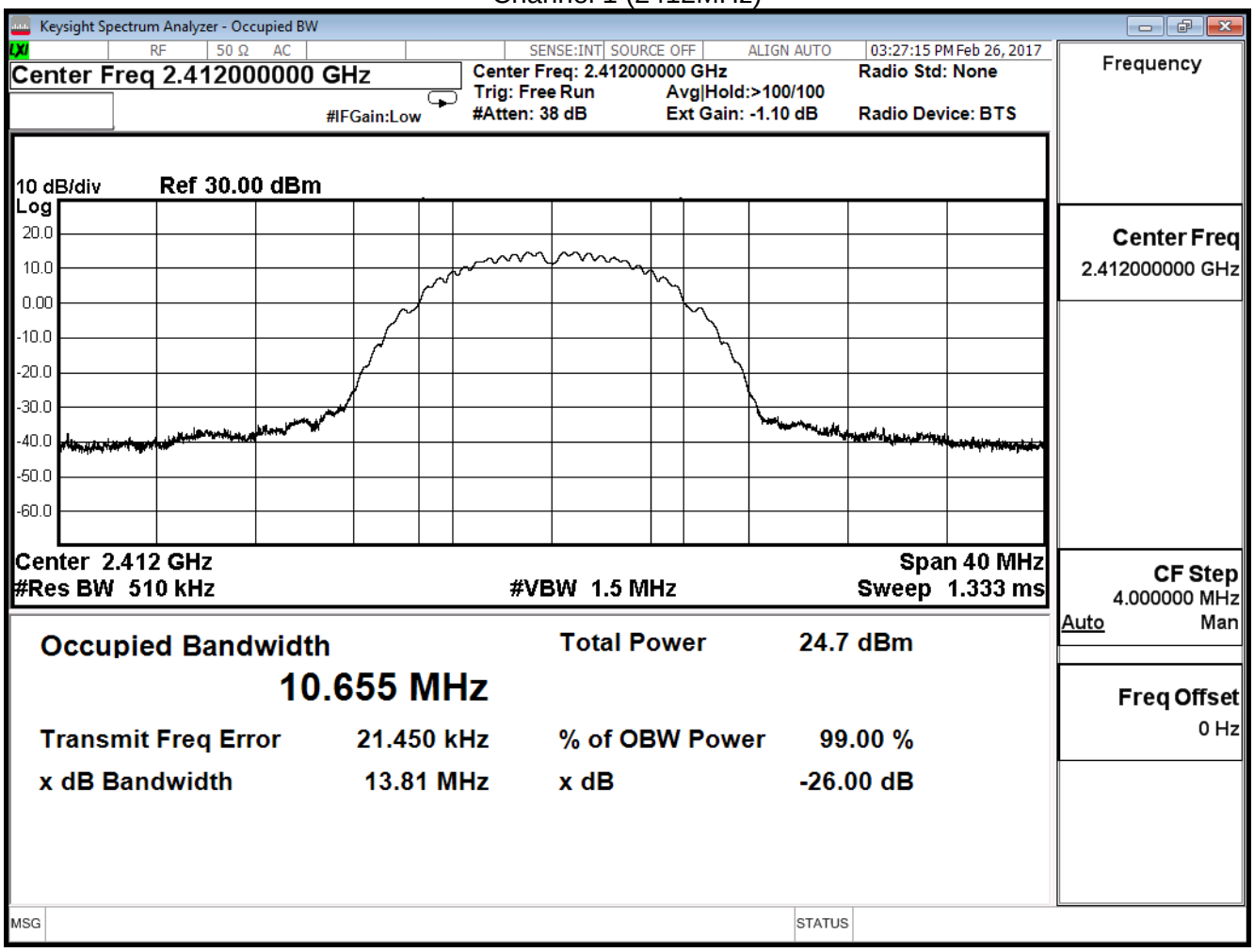
The measurement uncertainty is defined as ±150Hz

8.7. Test Result

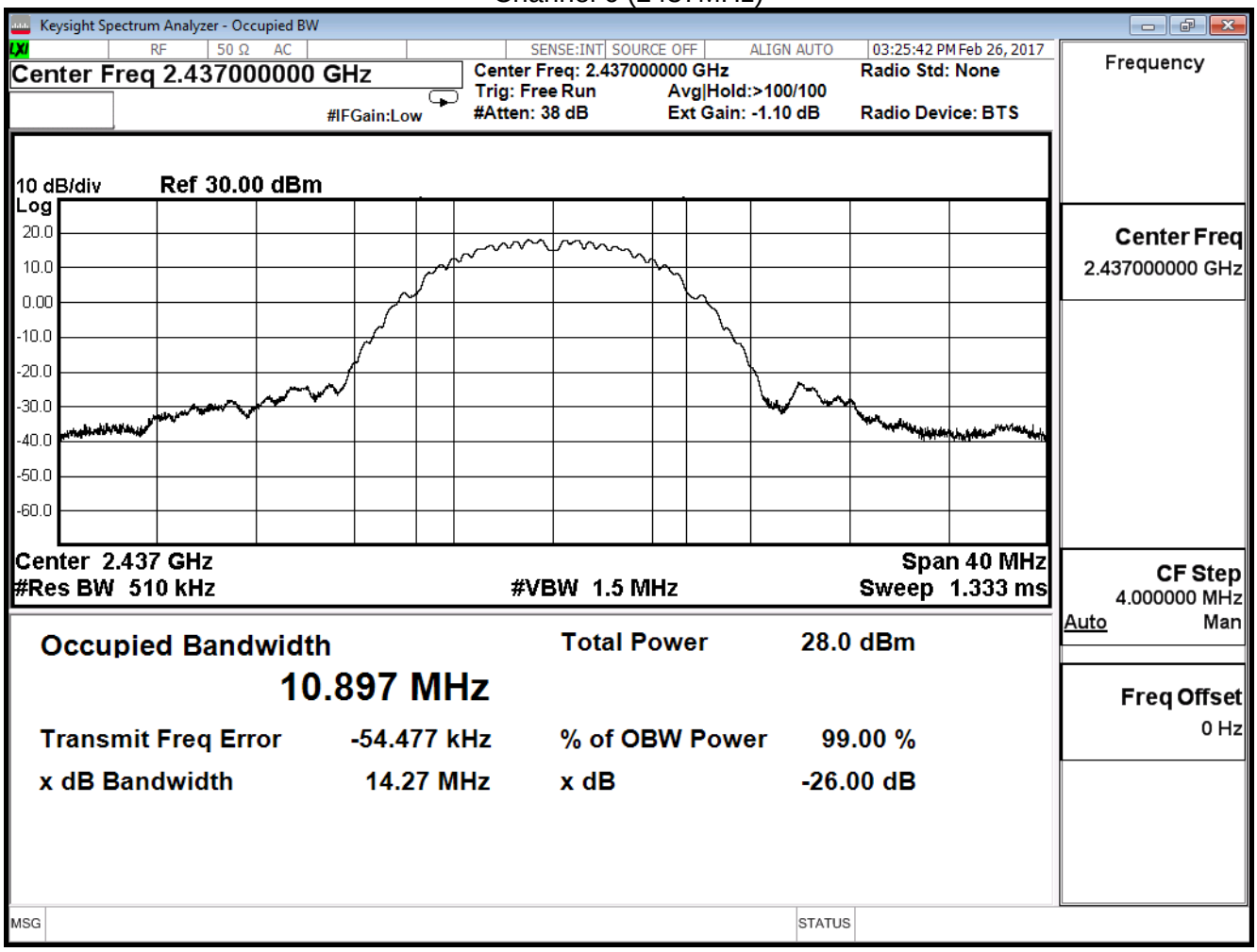
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/26	Test Site	SR10-H

802.11 b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	10.655	--	Pass
6	2437	10.897	--	Pass
11	2462	10.653	--	Pass

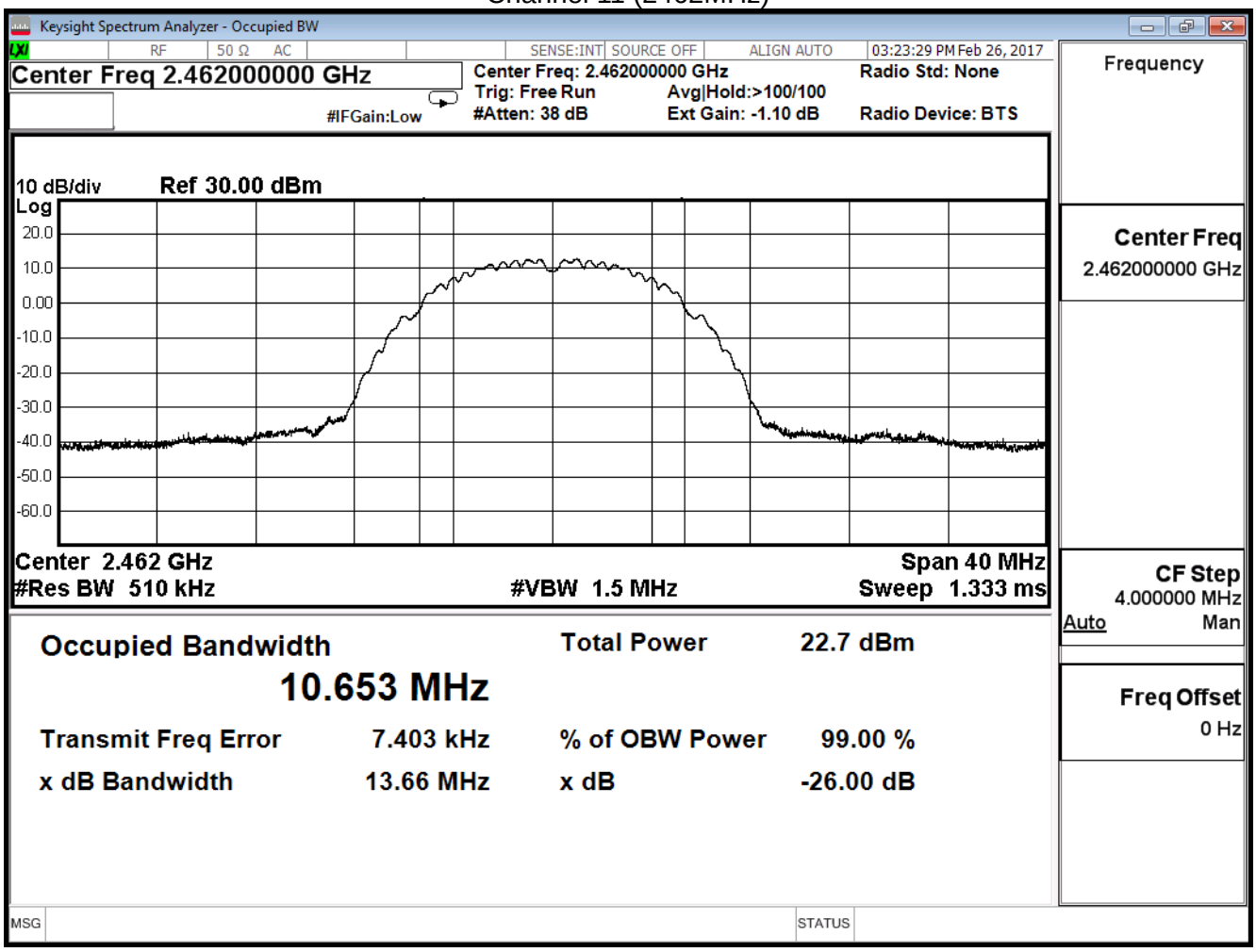
Channel 1 (2412MHz)



Channel 6 (2437MHz)



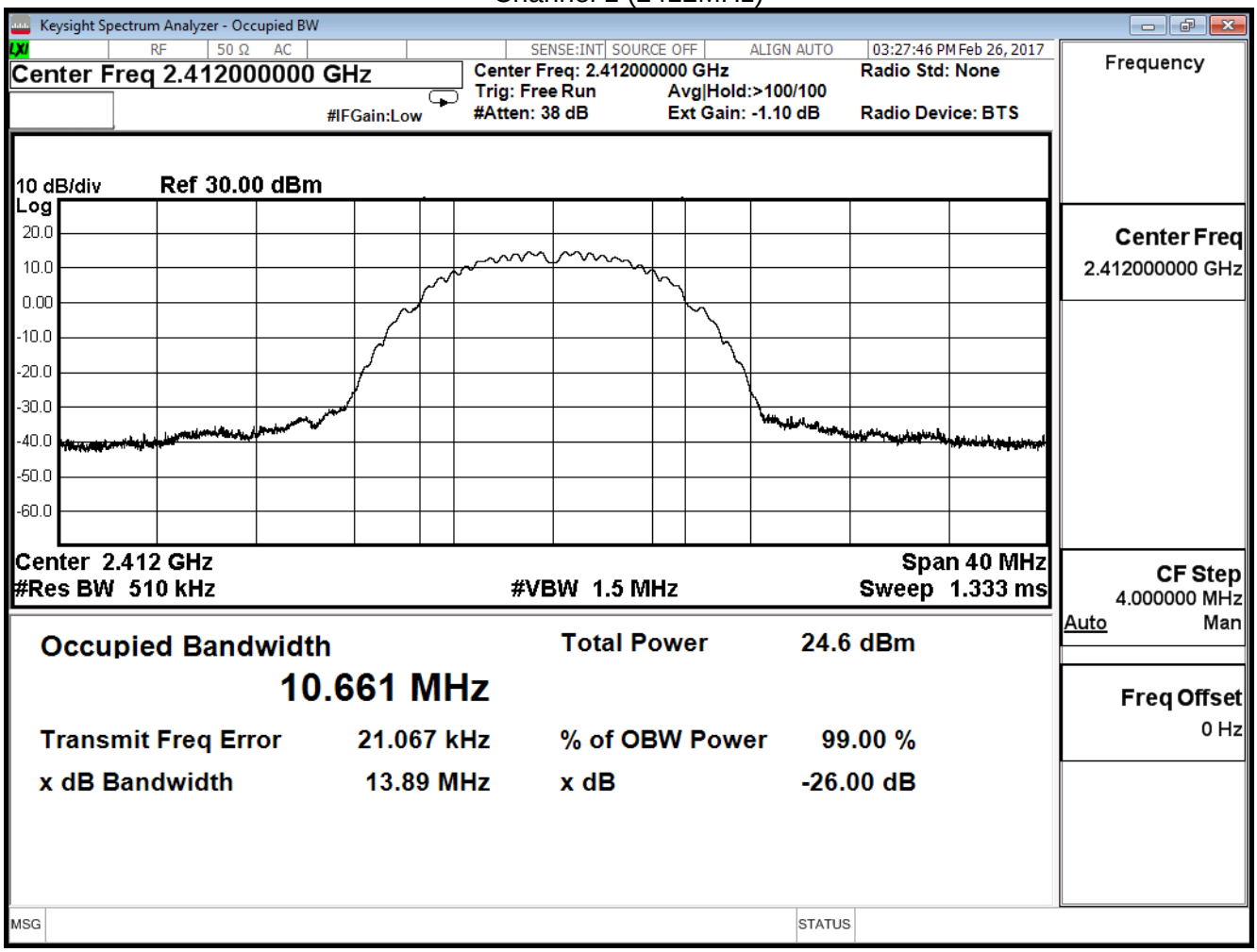
Channel 11 (2462MHz)



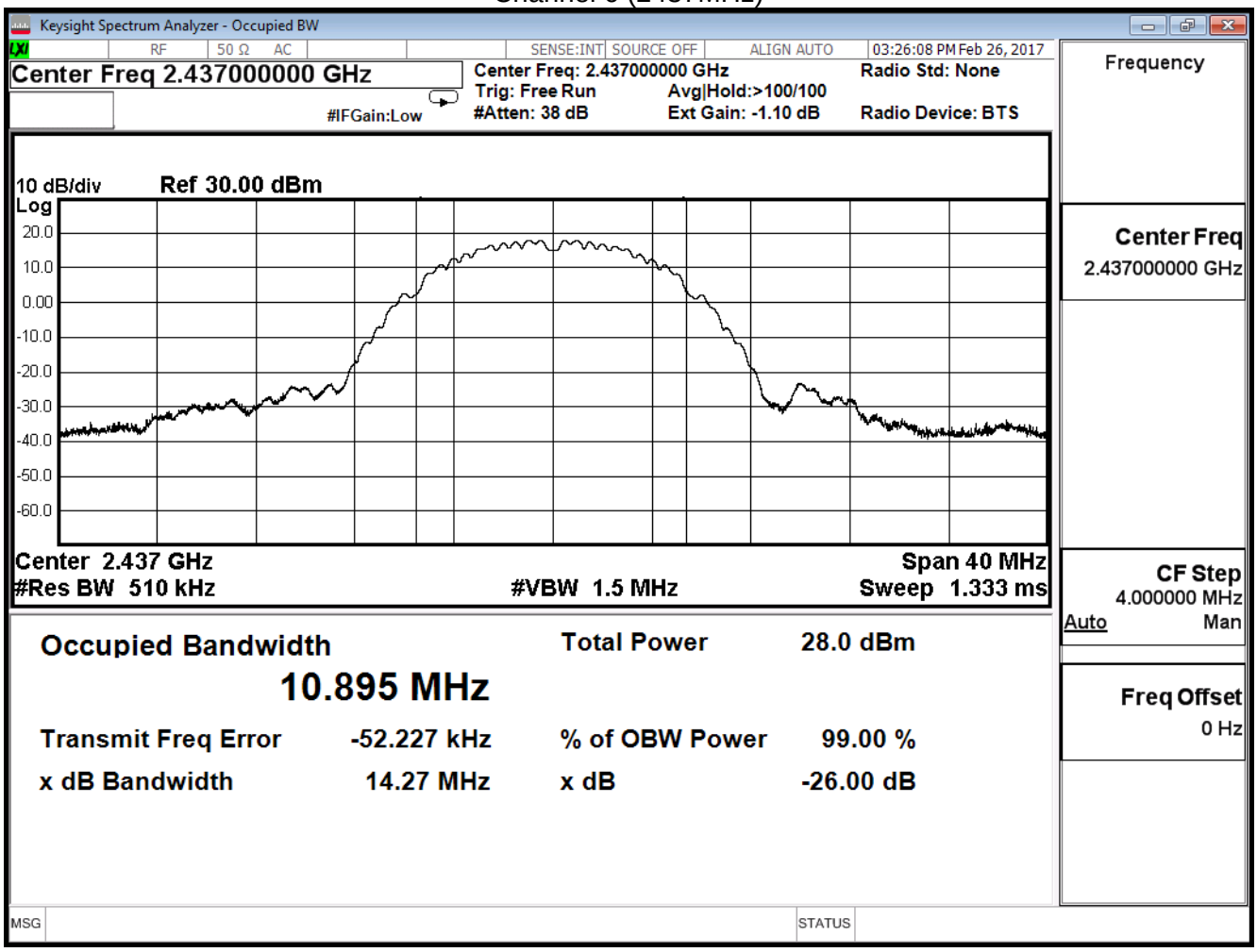
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/26	Test Site	SR10-H

802.11 b (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	10.661	--	Pass
6	2437	10.895	--	Pass
11	2462	10.647	--	Pass

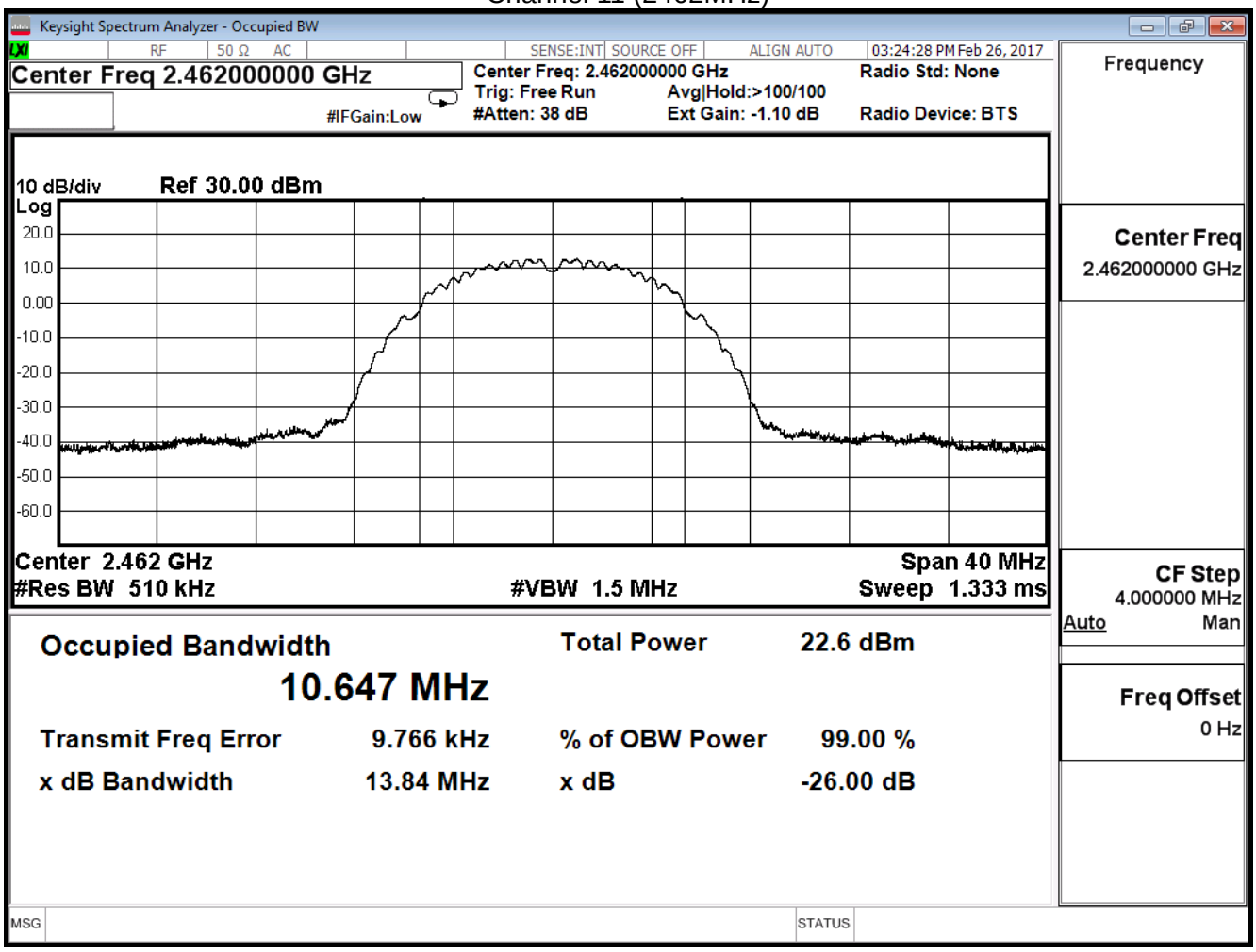
Channel 1 (2412MHz)



Channel 6 (2437MHz)



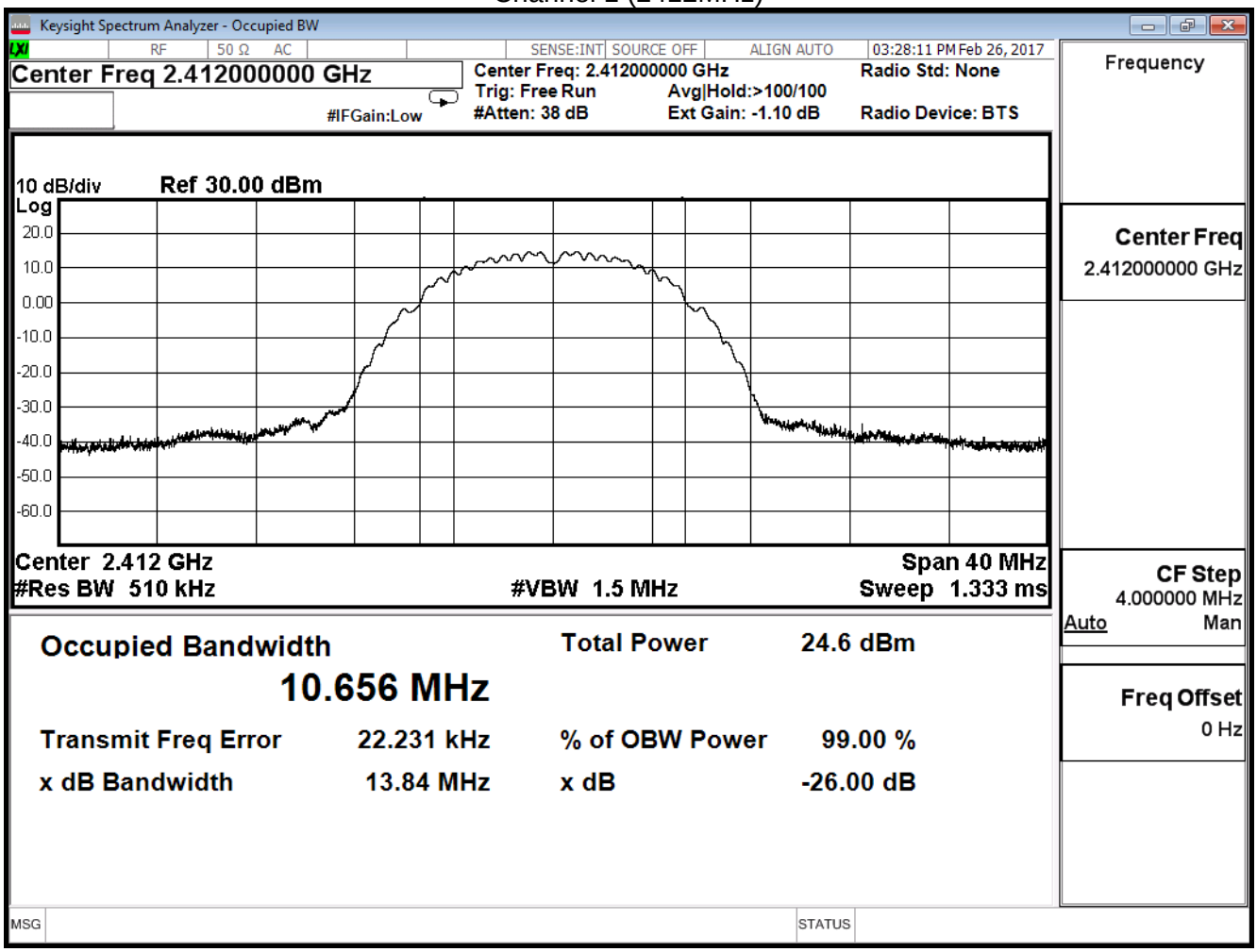
Channel 11 (2462MHz)



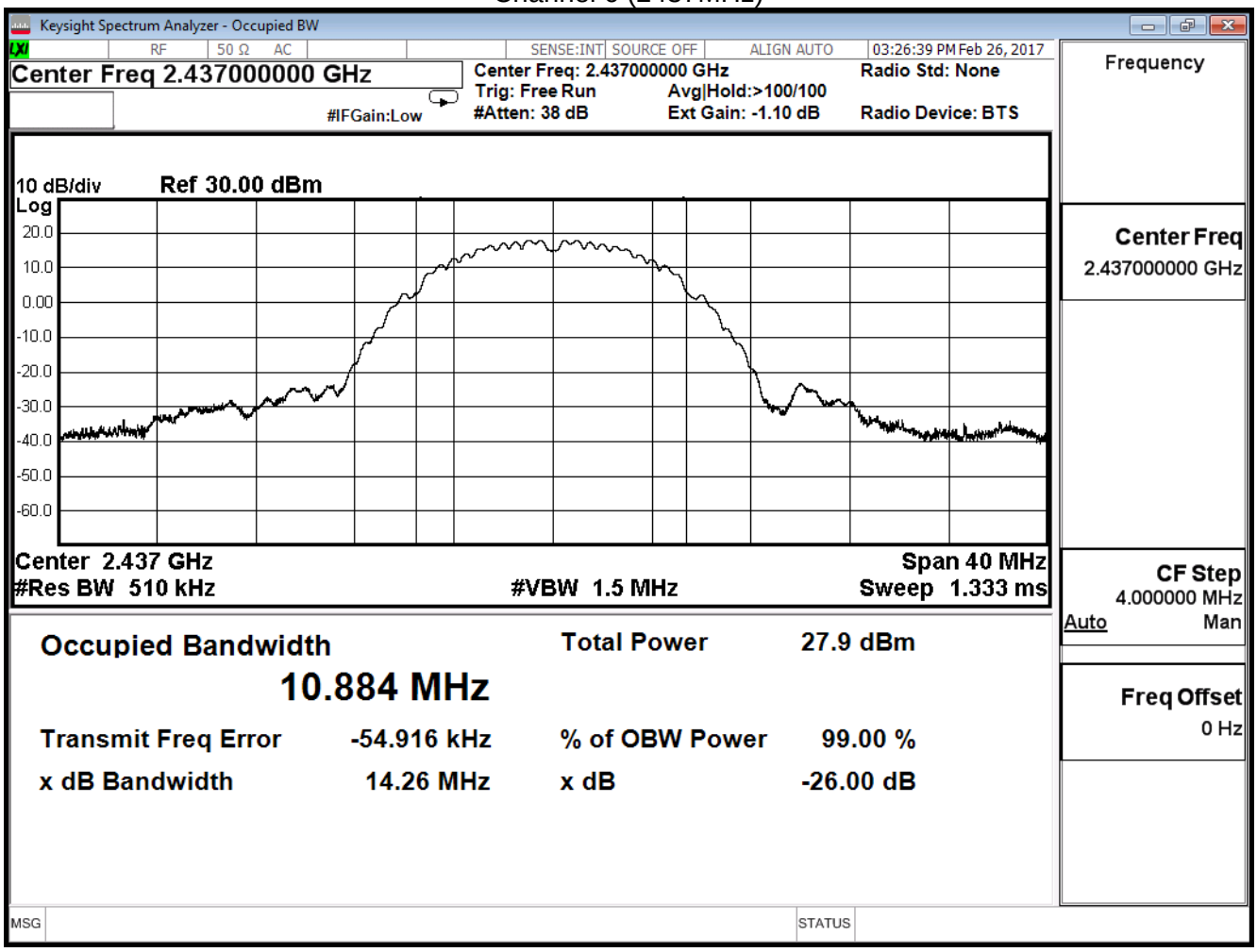
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/26	Test Site	SR10-H

802.11 b (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	10.656	--	Pass
6	2437	10.884	--	Pass
11	2462	10.660	--	Pass

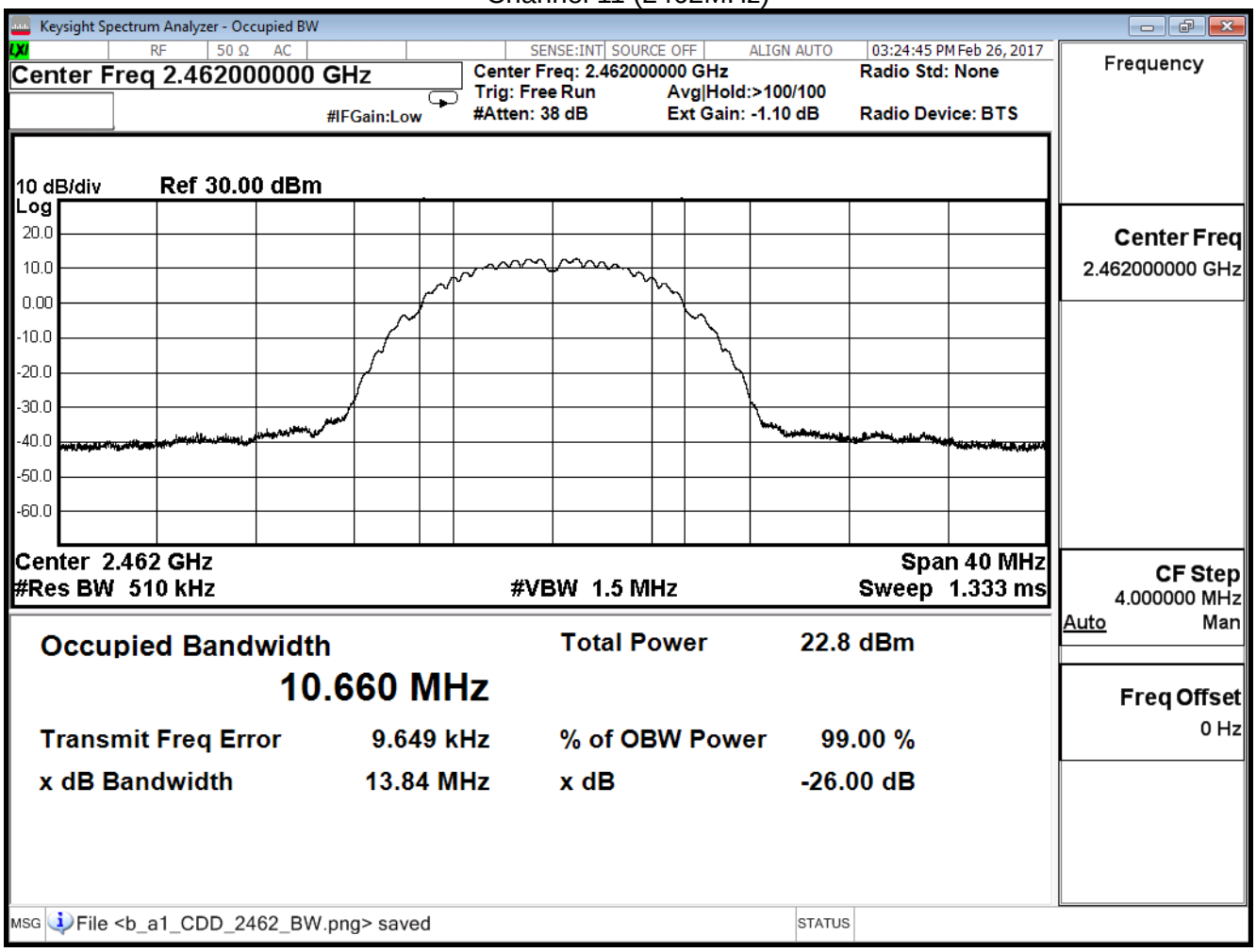
Channel 1 (2412MHz)



Channel 6 (2437MHz)



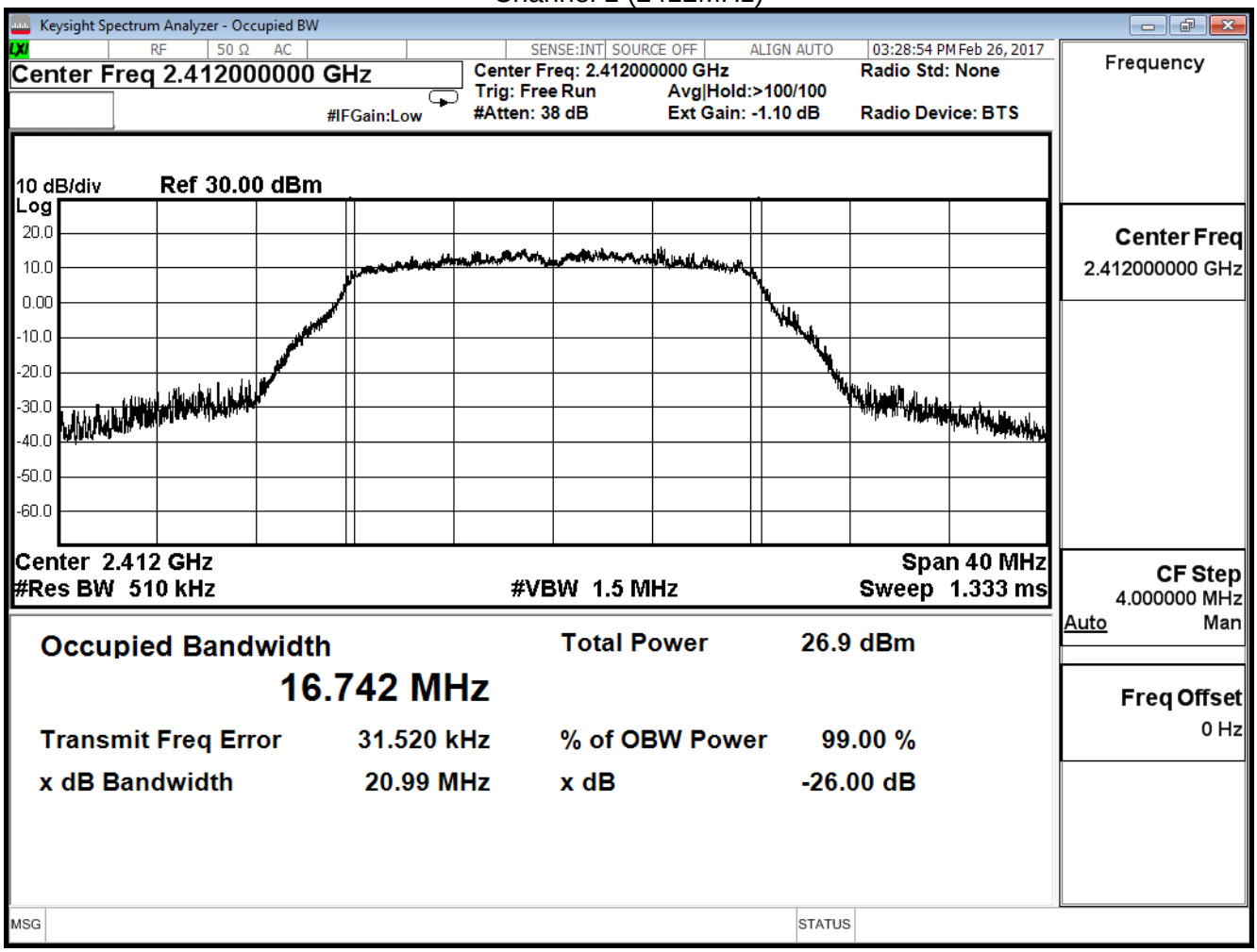
Channel 11 (2462MHz)



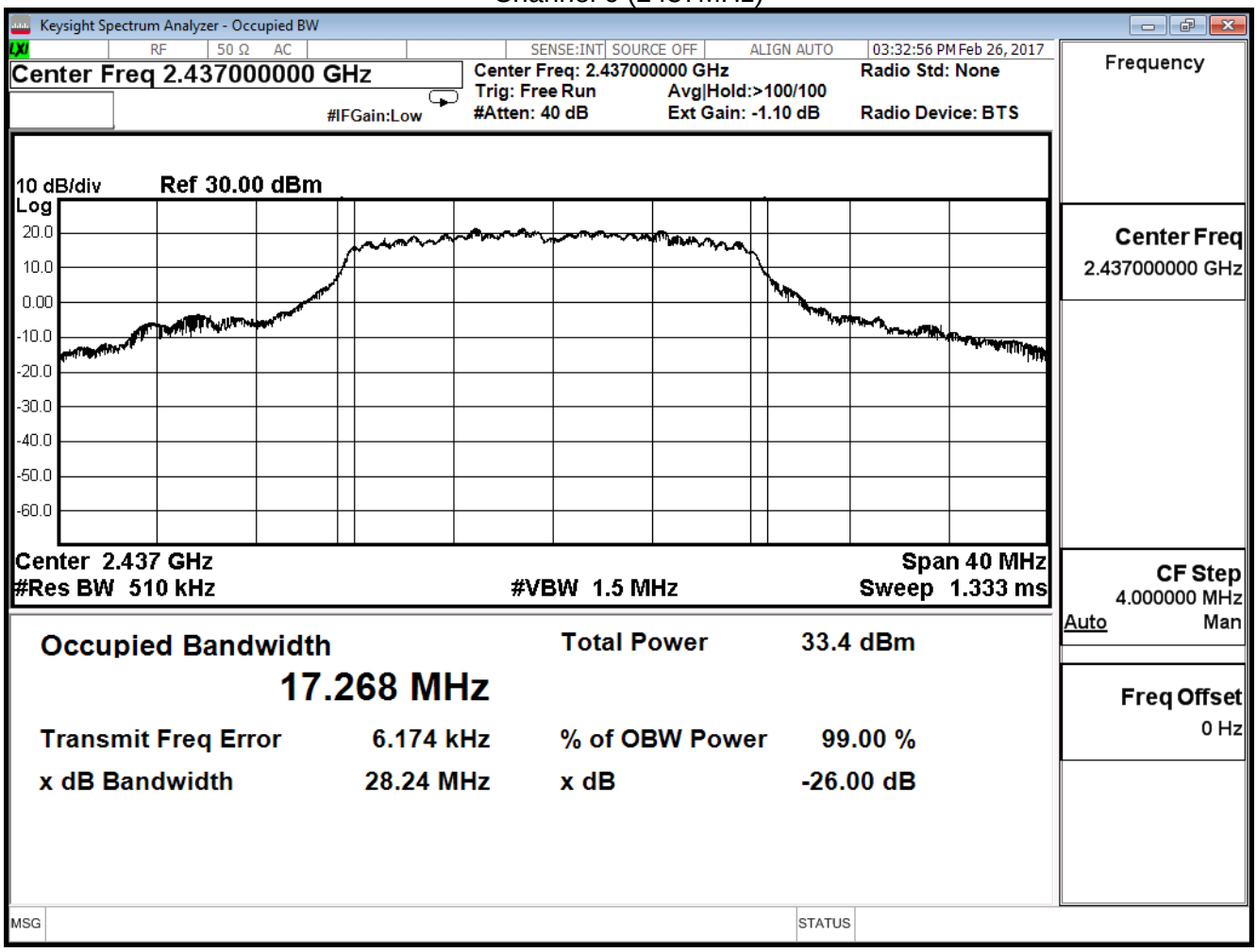
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/26	Test Site	SR10-H

802.11 g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	16.742	--	Pass
6	2437	17.268	--	Pass
11	2462	16.852	--	Pass

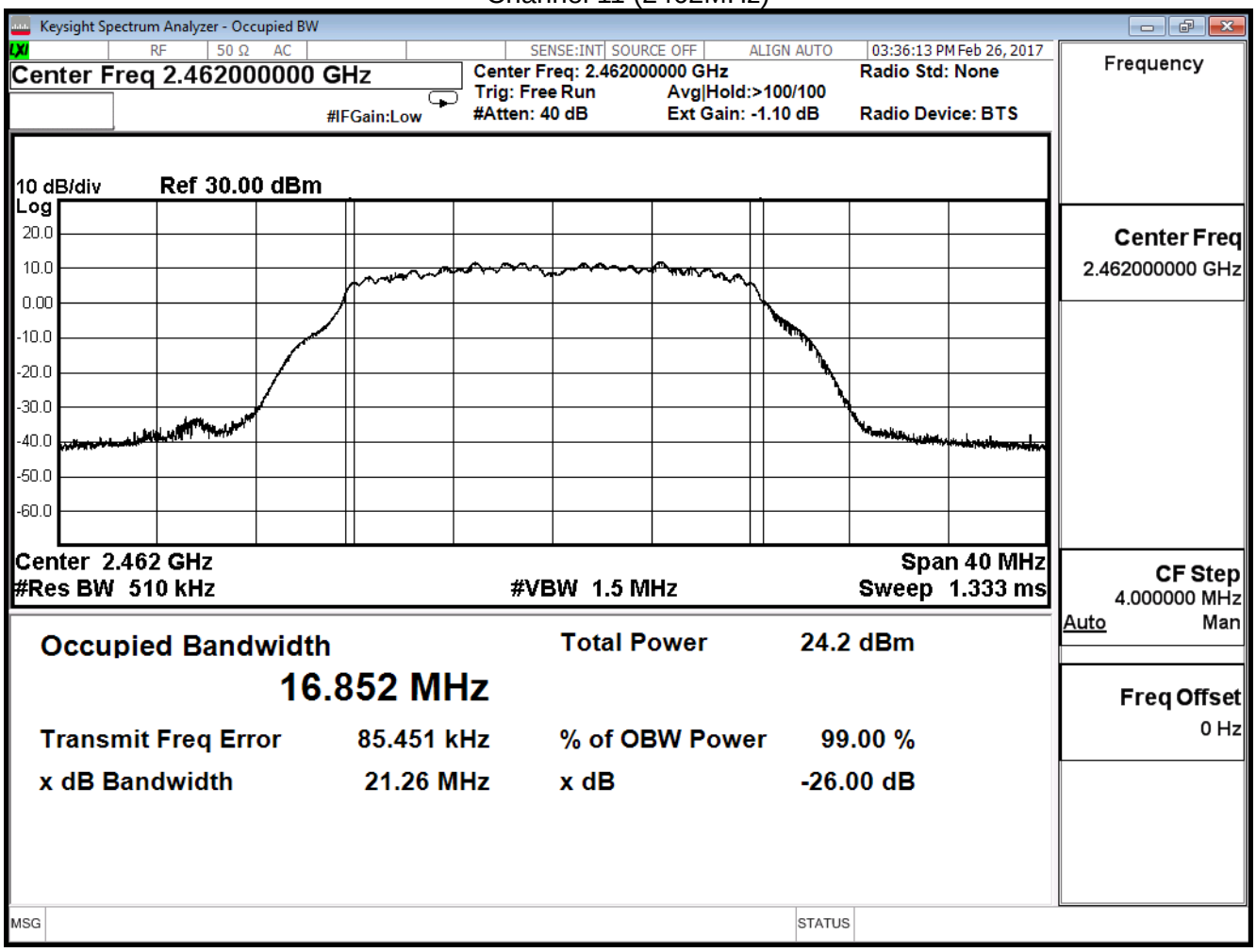
Channel 1 (2412MHz)



Channel 6 (2437MHz)



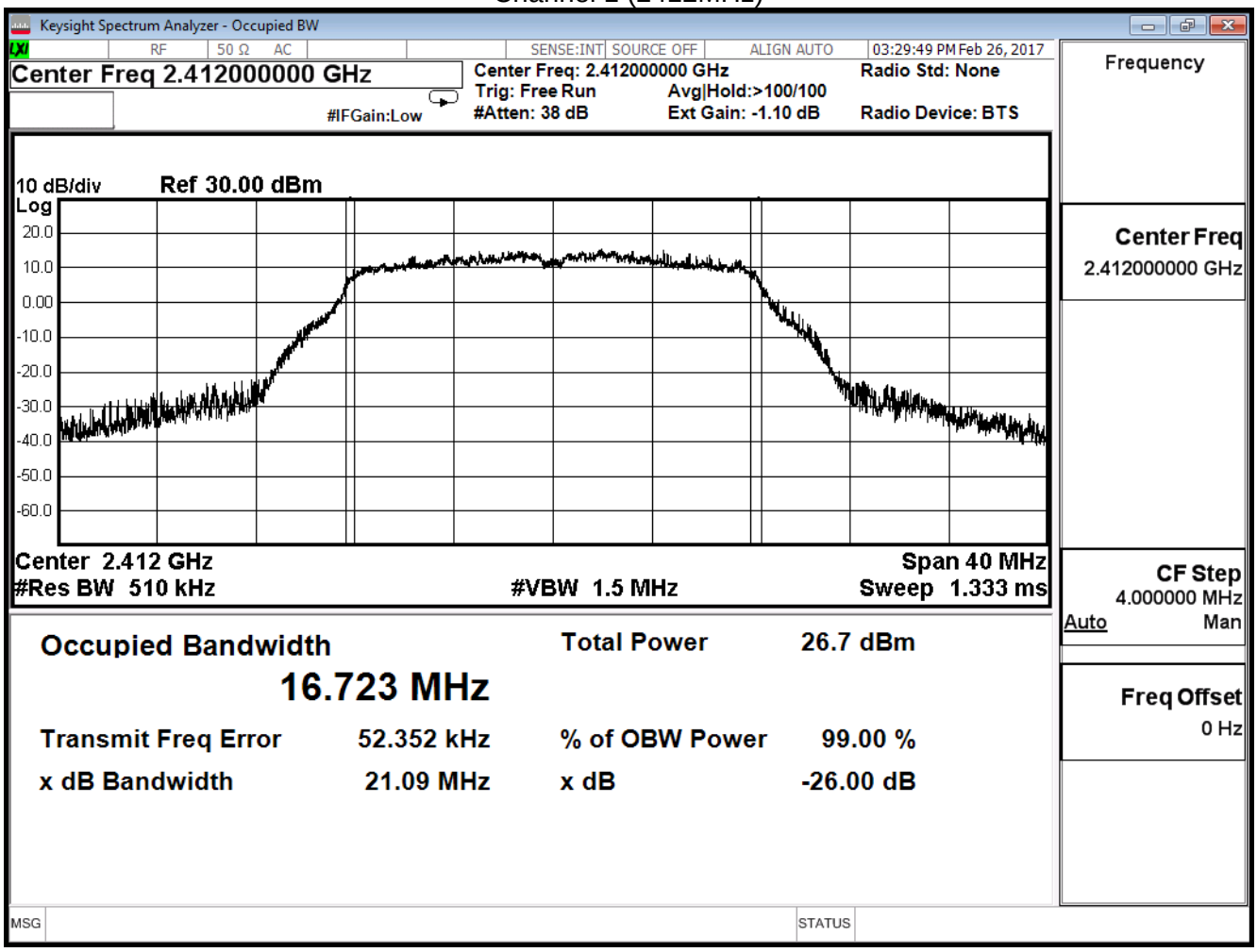
Channel 11 (2462MHz)



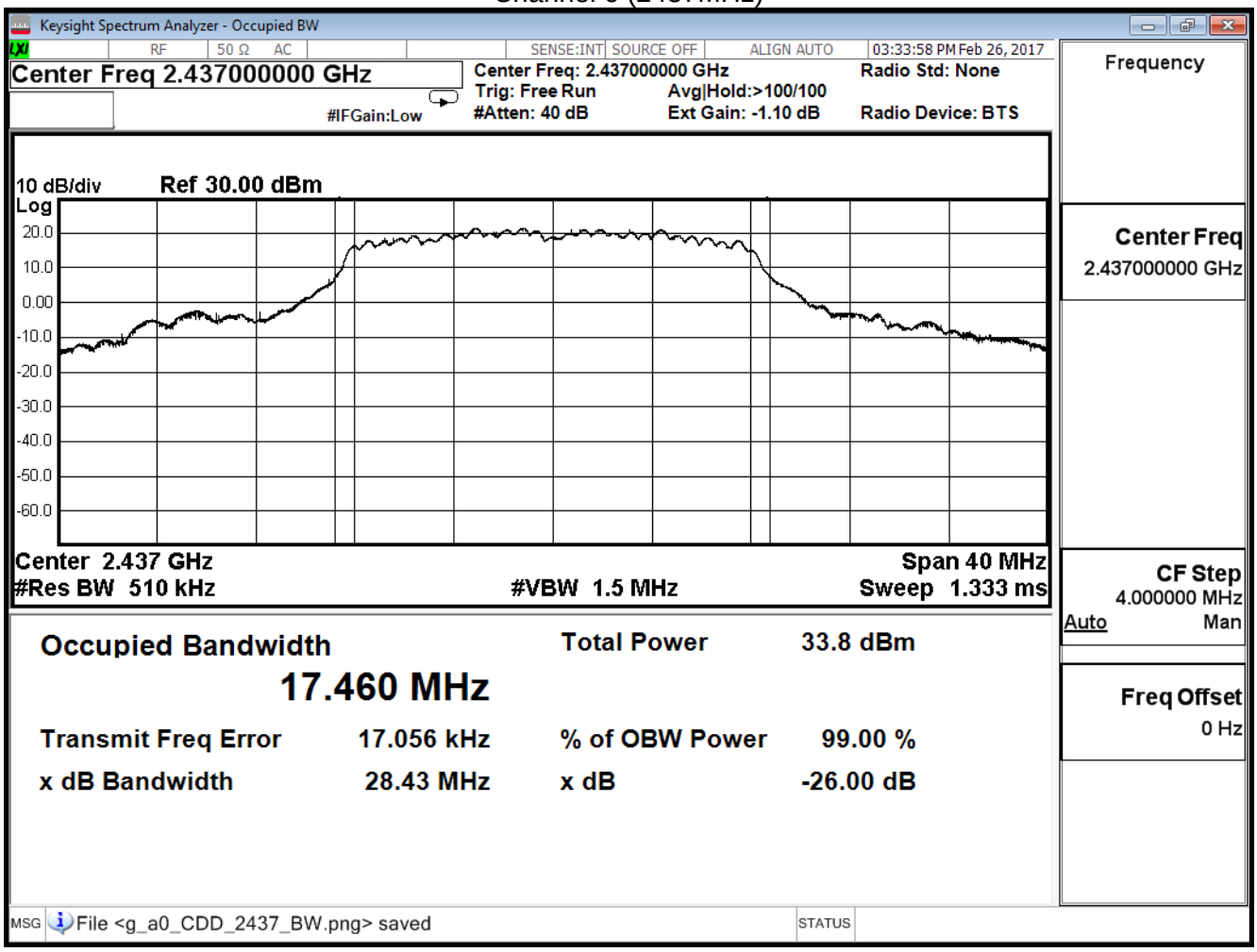
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/26	Test Site	SR10-H

802.11 g (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	16.723	--	Pass
6	2437	17.460	--	Pass
11	2462	16.689	--	Pass

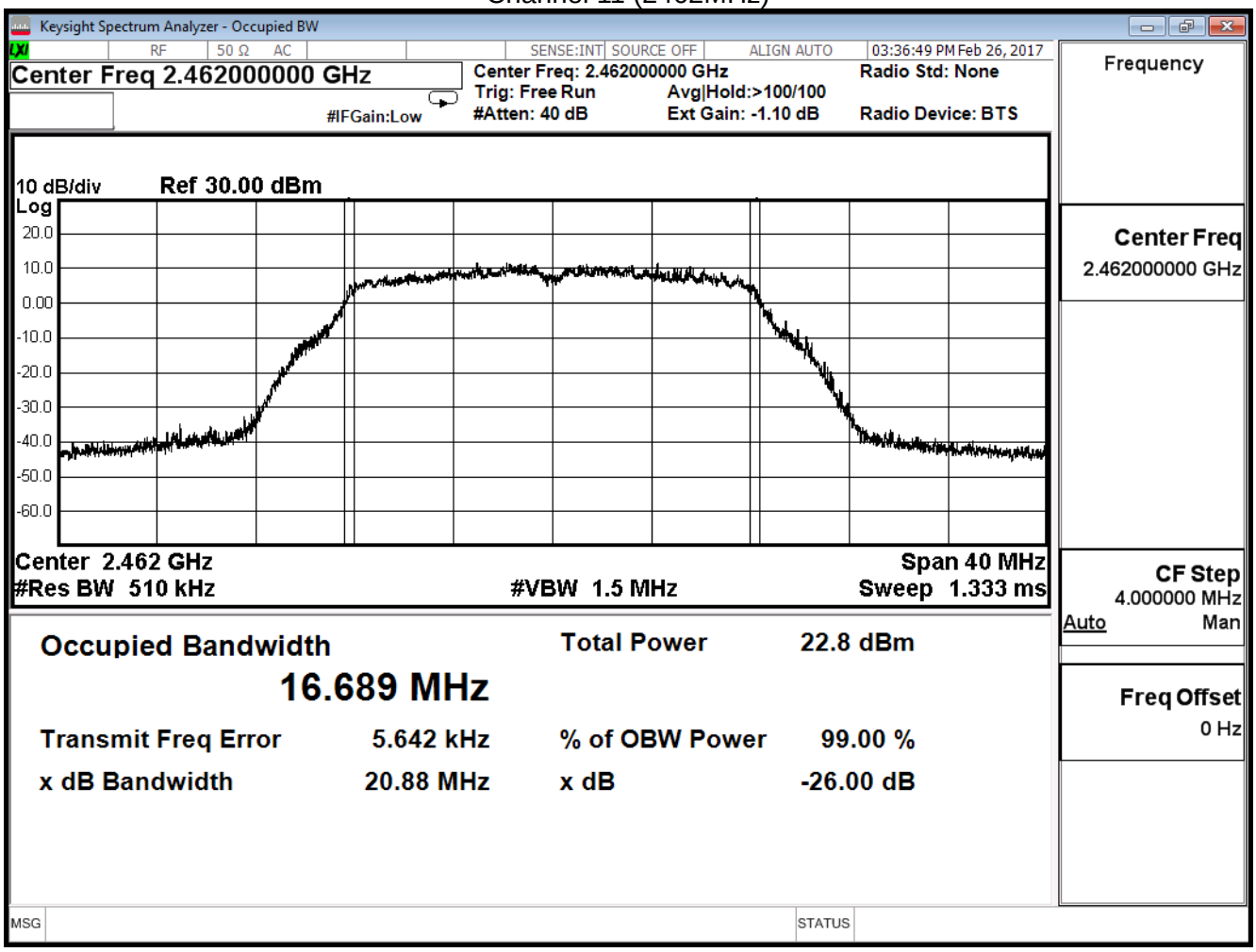
Channel 1 (2412MHz)



Channel 6 (2437MHz)



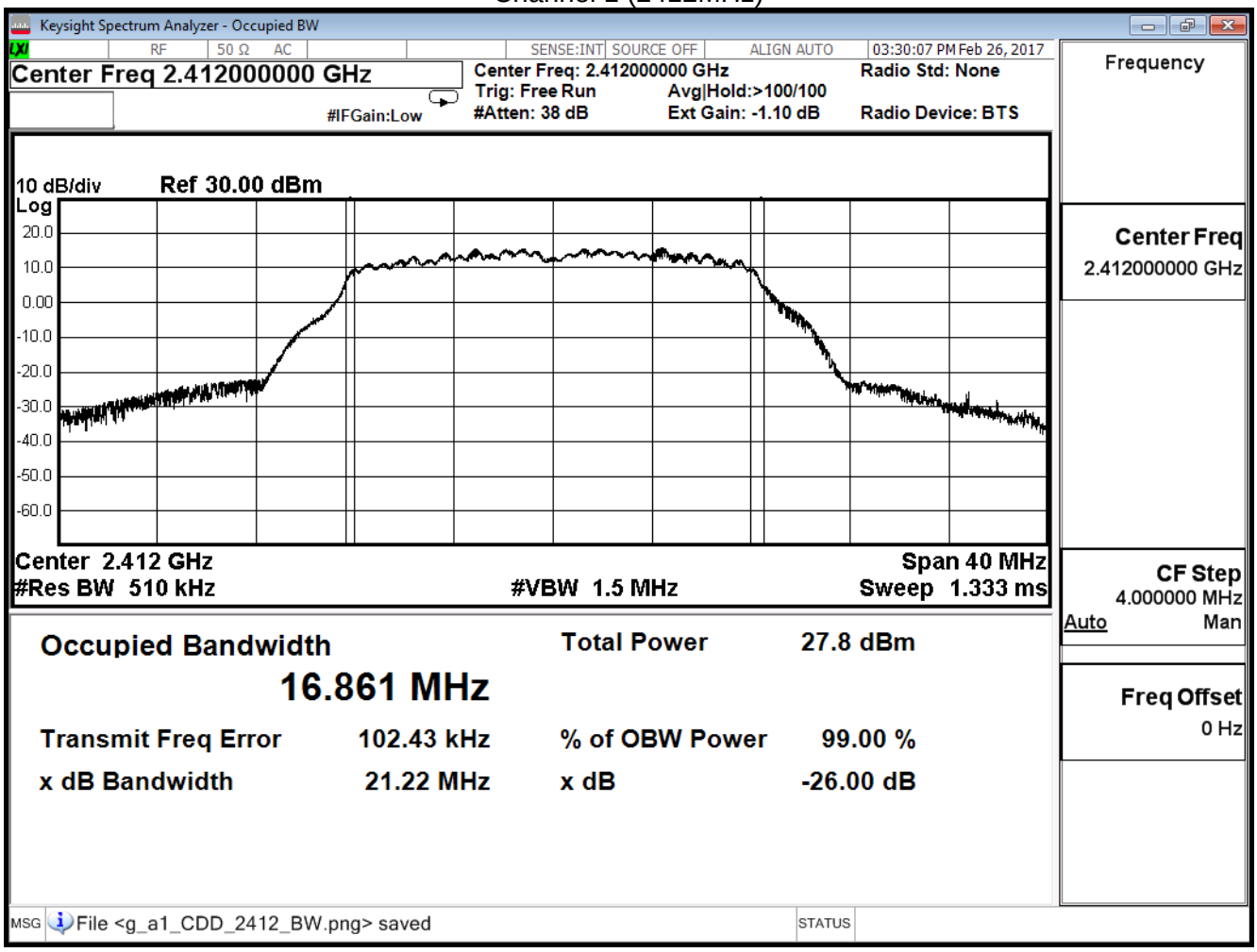
Channel 11 (2462MHz)



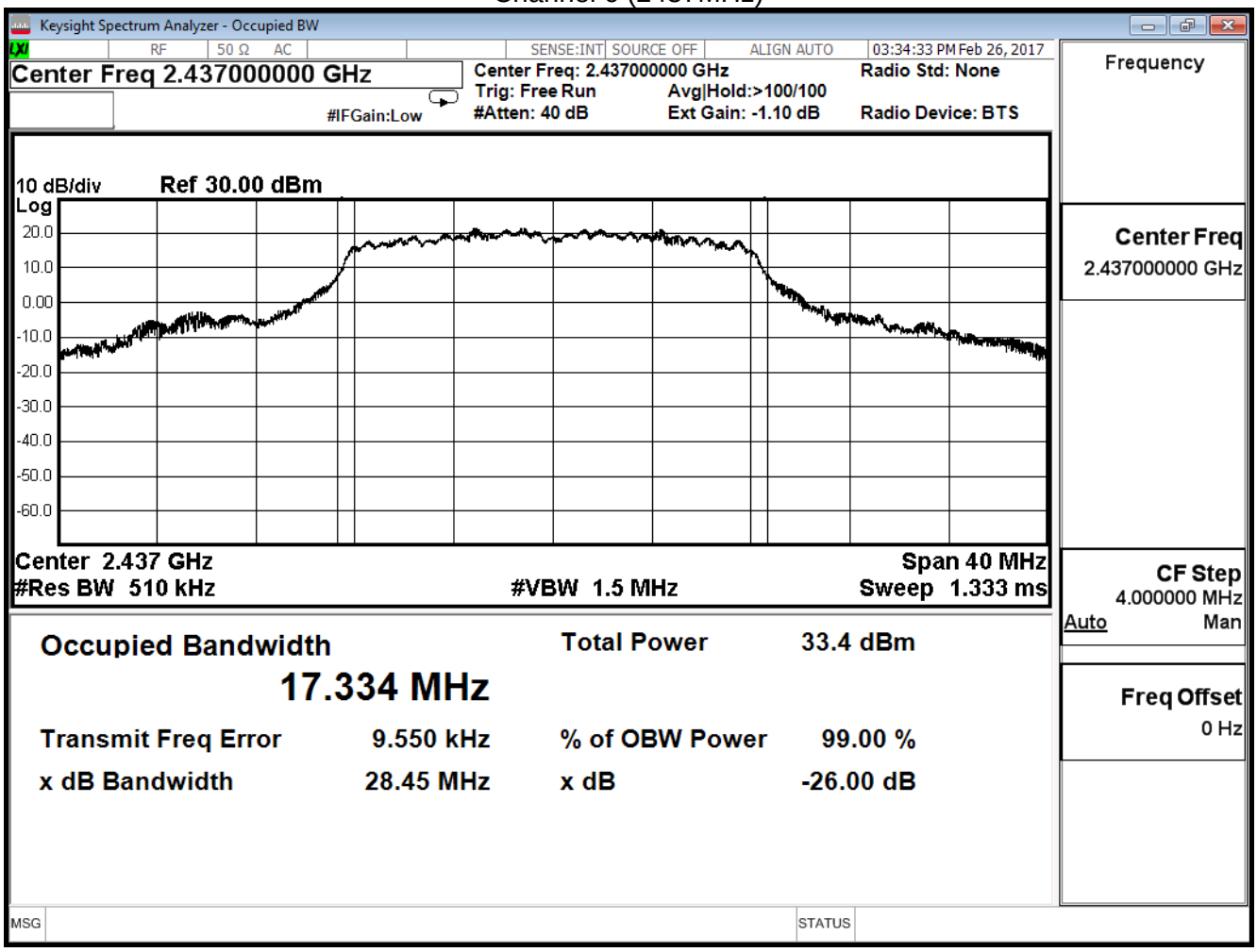
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/26	Test Site	SR10-H

802.11 g (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	16.861	--	Pass
6	2437	17.334	--	Pass
11	2462	16.778	--	Pass

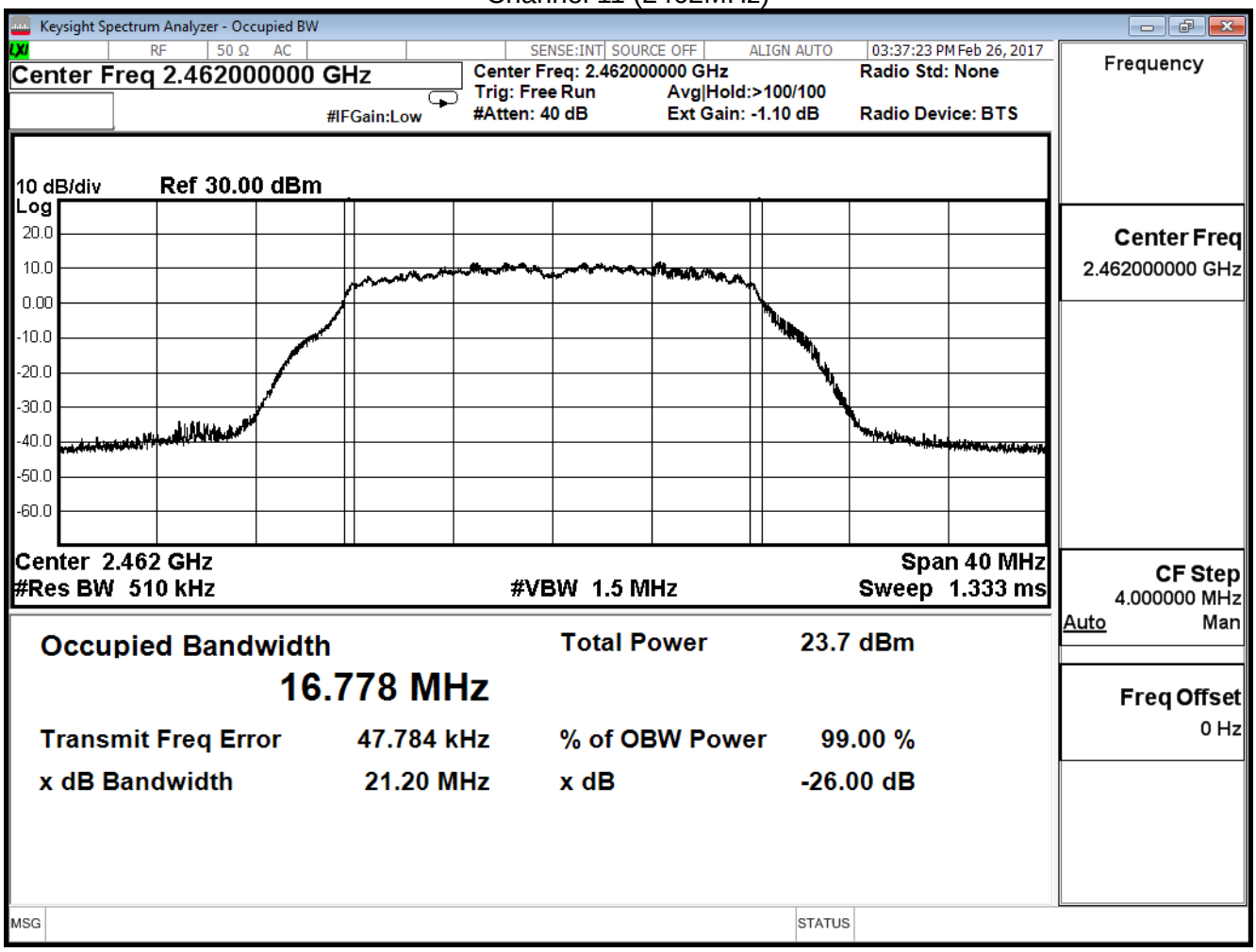
Channel 1 (2412MHz)



Channel 6 (2437MHz)



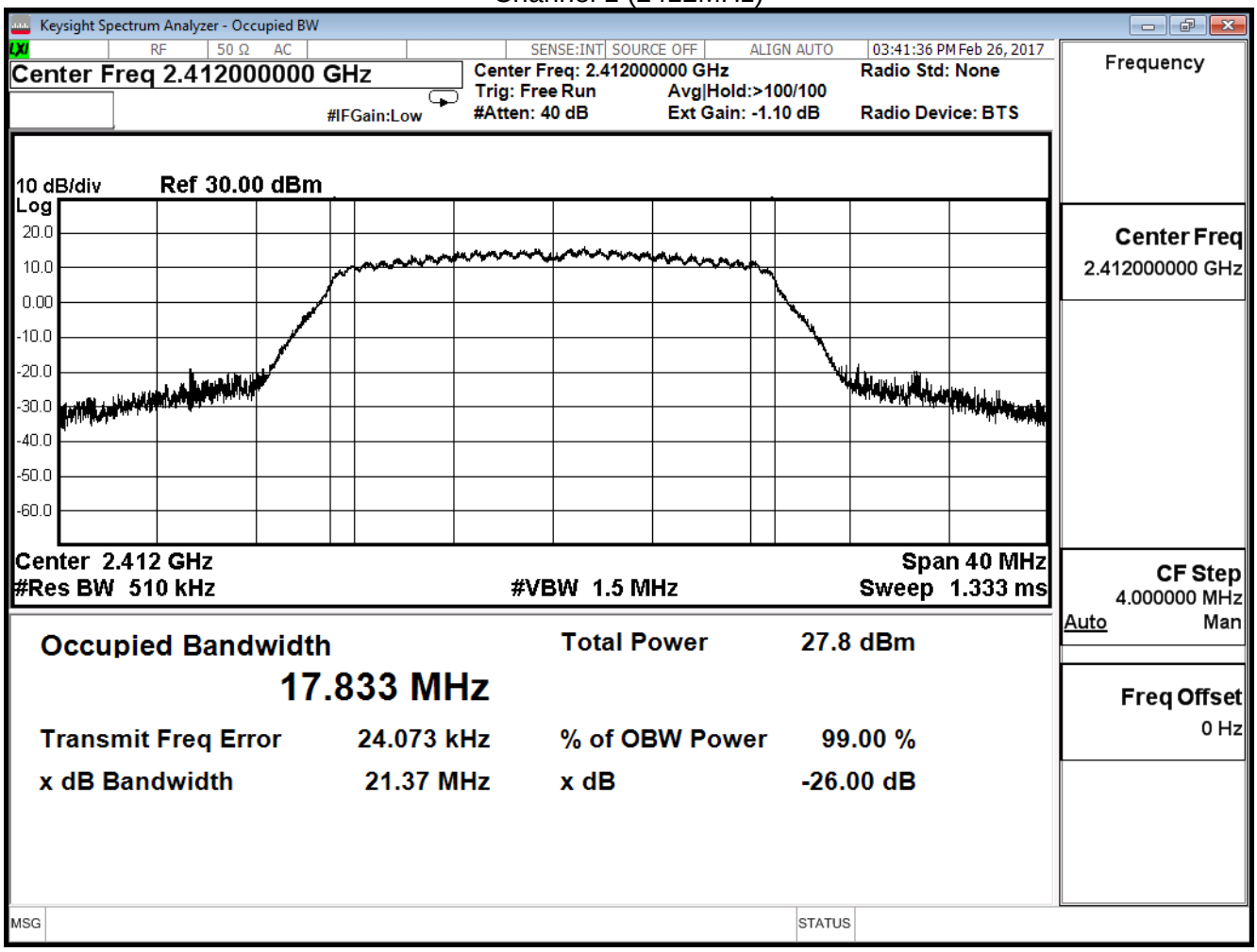
Channel 11 (2462MHz)



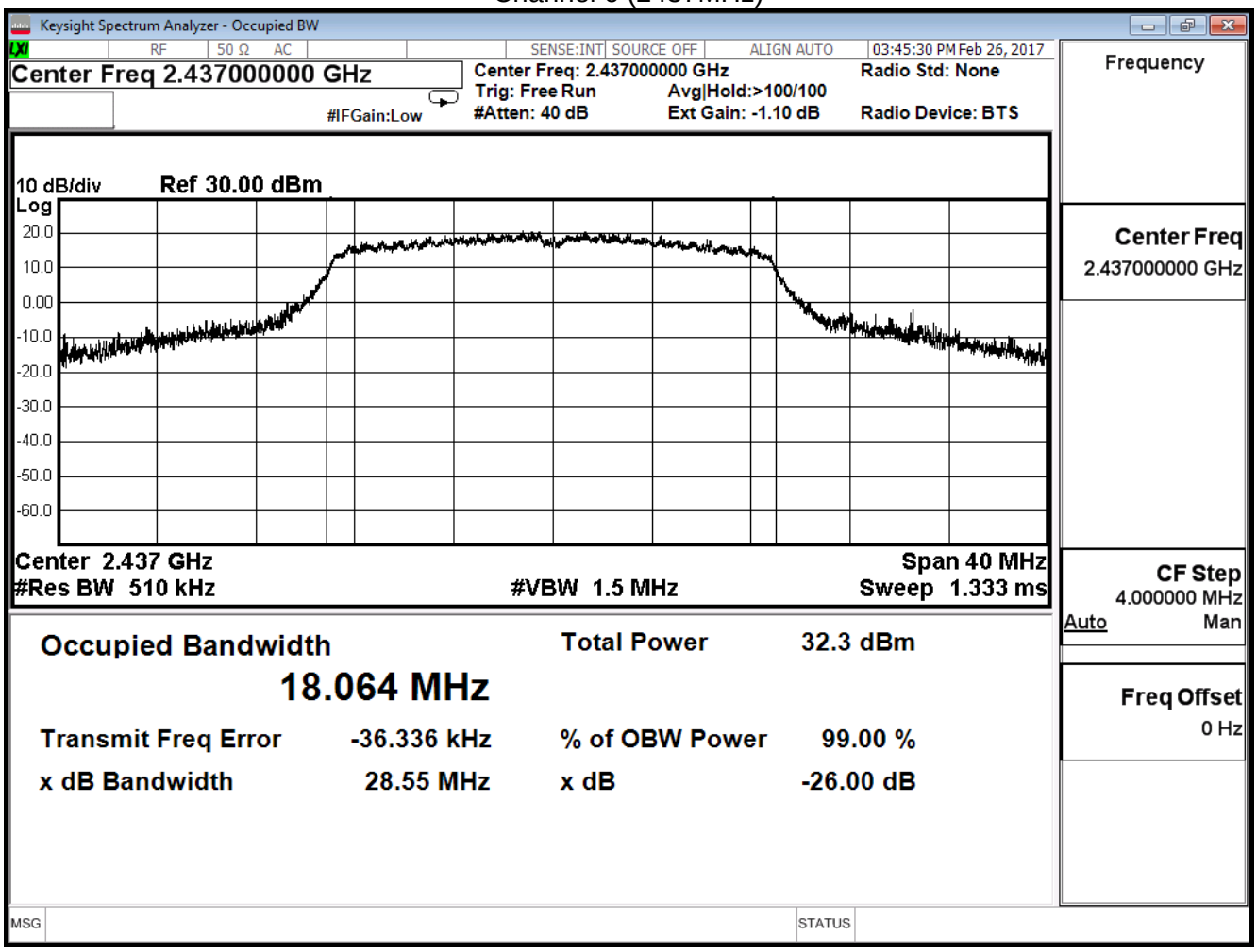
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/26	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	17.833	--	Pass
6	2437	18.064	--	Pass
11	2462	17.802	--	Pass

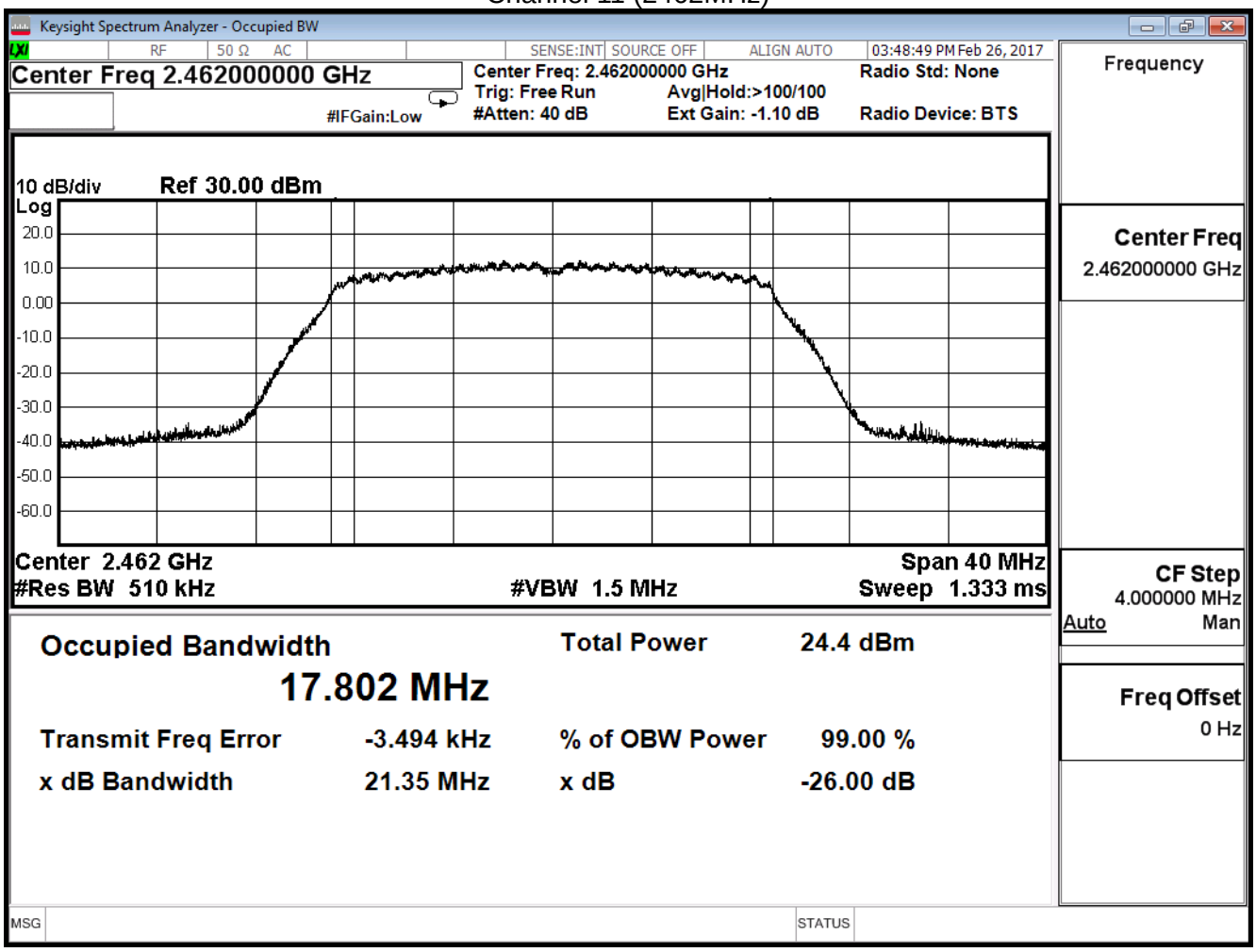
Channel 1 (2412MHz)



Channel 6 (2437MHz)



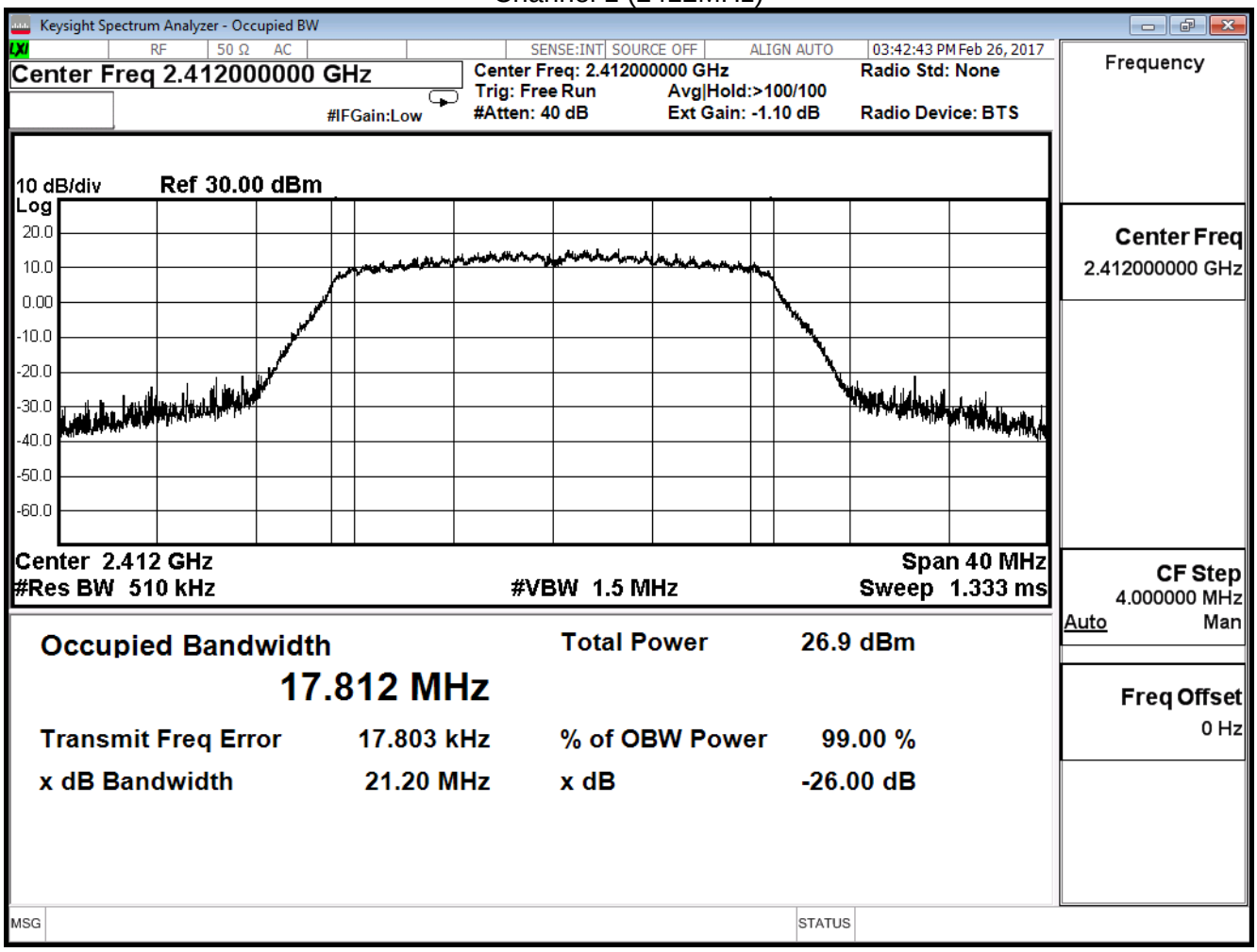
Channel 11 (2462MHz)



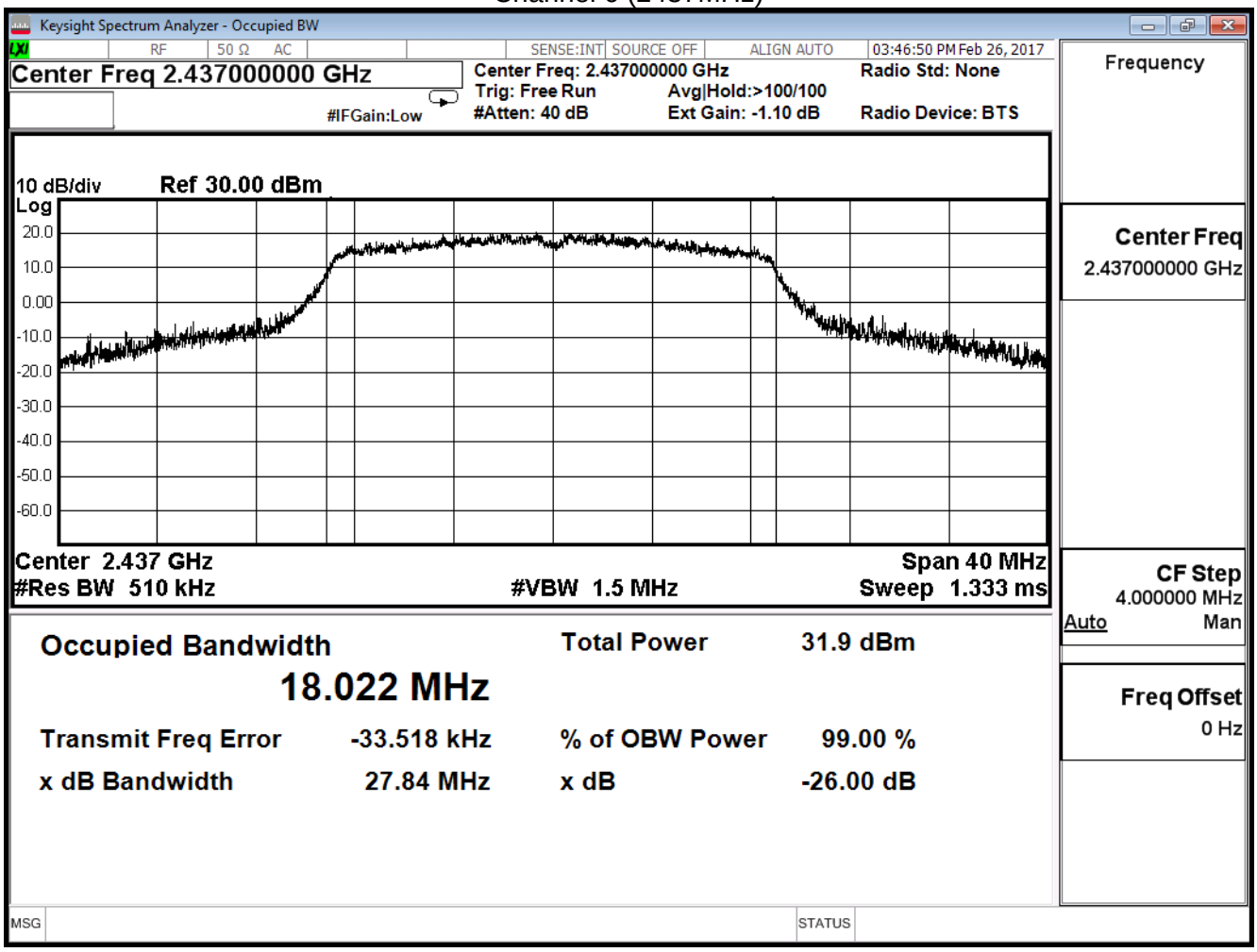
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/26	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	17.812	--	Pass
6	2437	18.022	--	Pass
11	2462	17.805	--	Pass

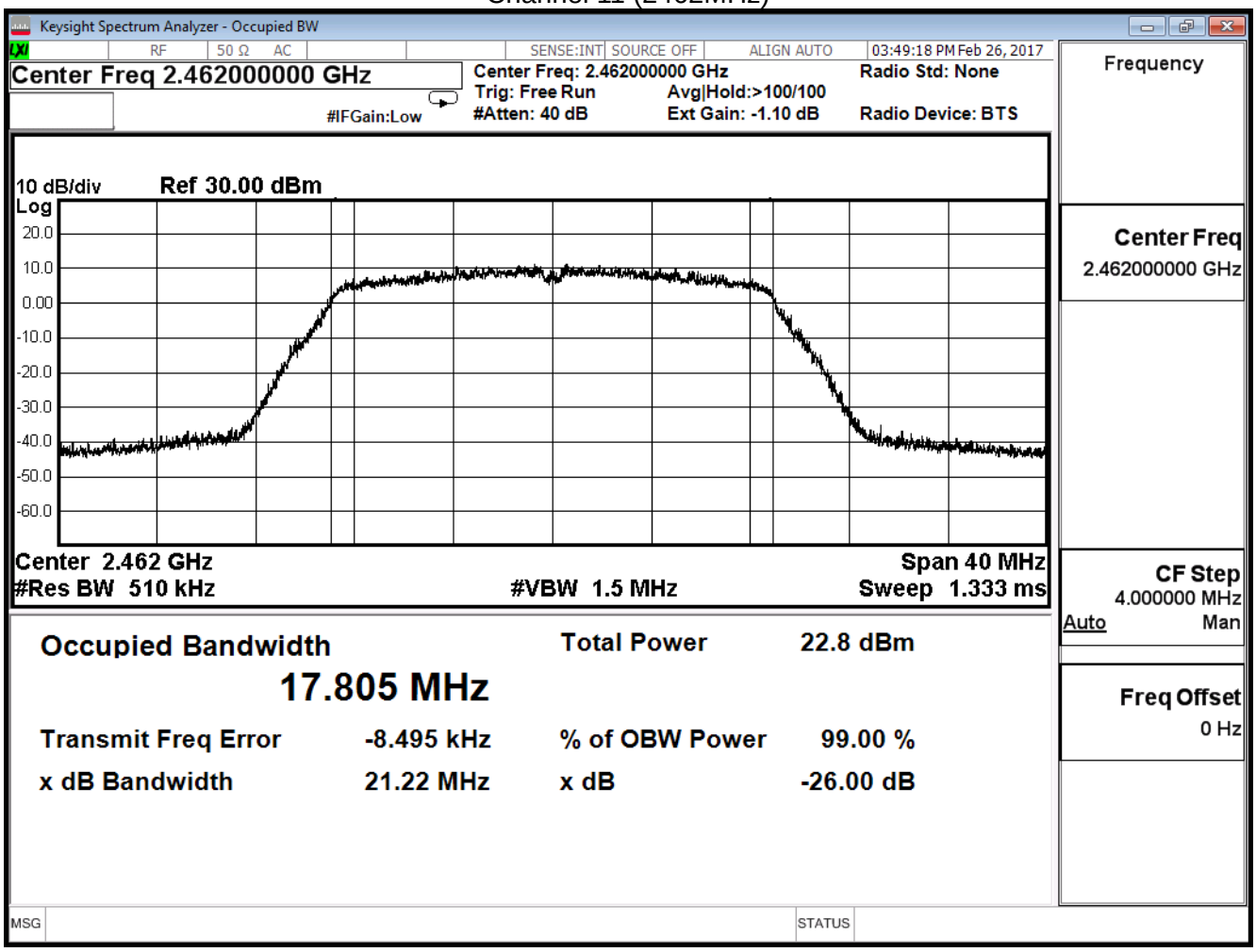
Channel 1 (2412MHz)



Channel 6 (2437MHz)



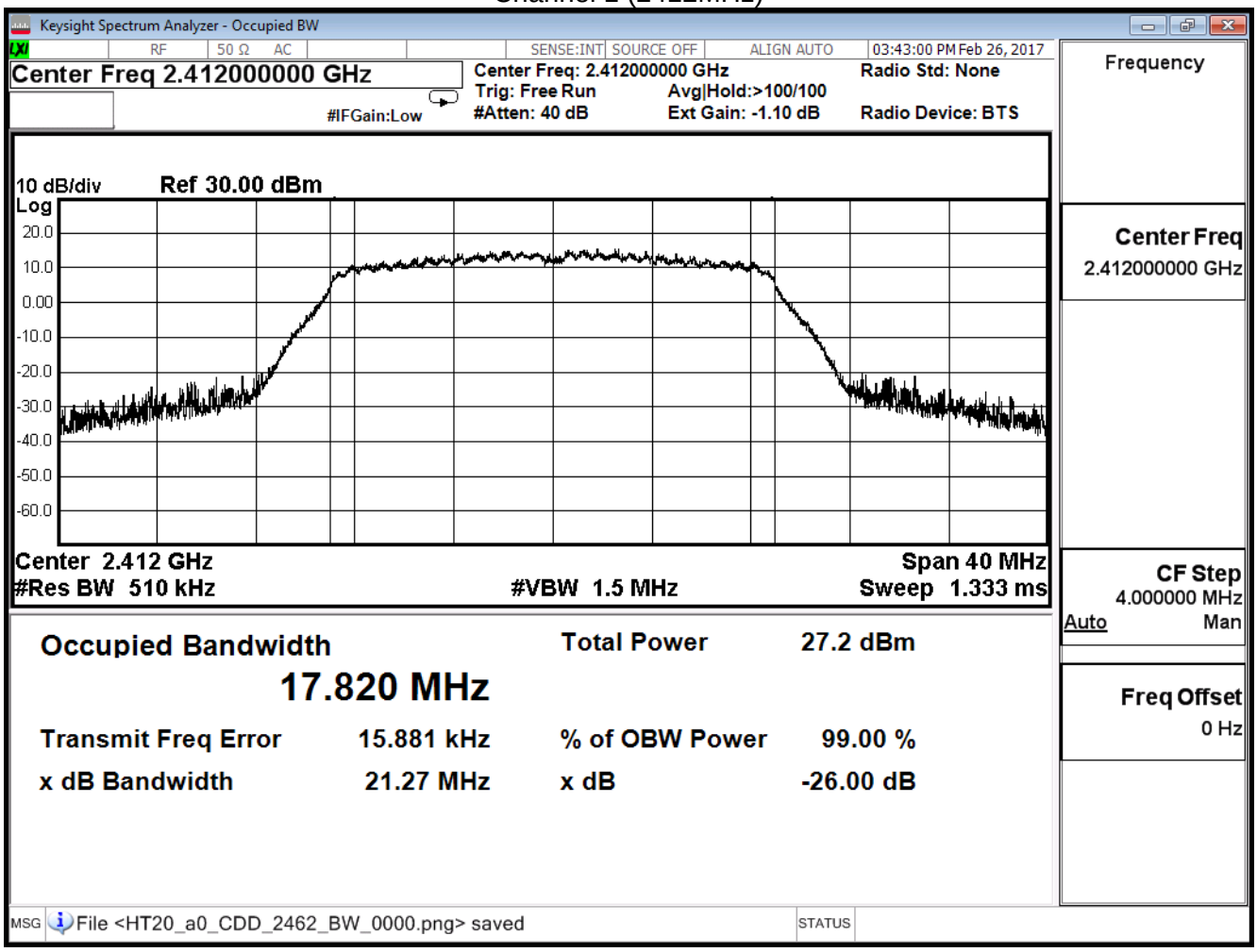
Channel 11 (2462MHz)



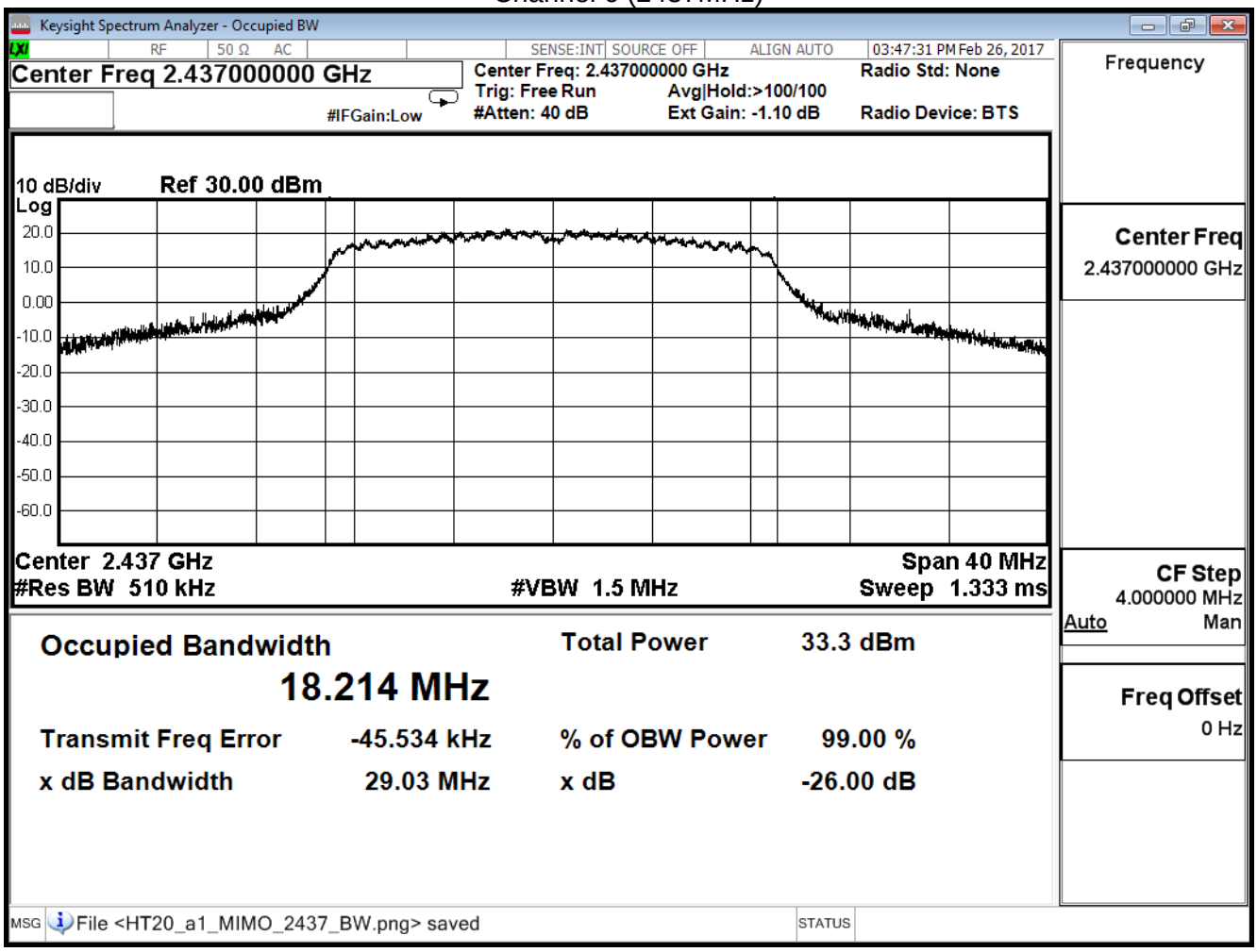
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/26	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	17.820	--	Pass
6	2437	18.214	--	Pass
11	2462	17.827	--	Pass

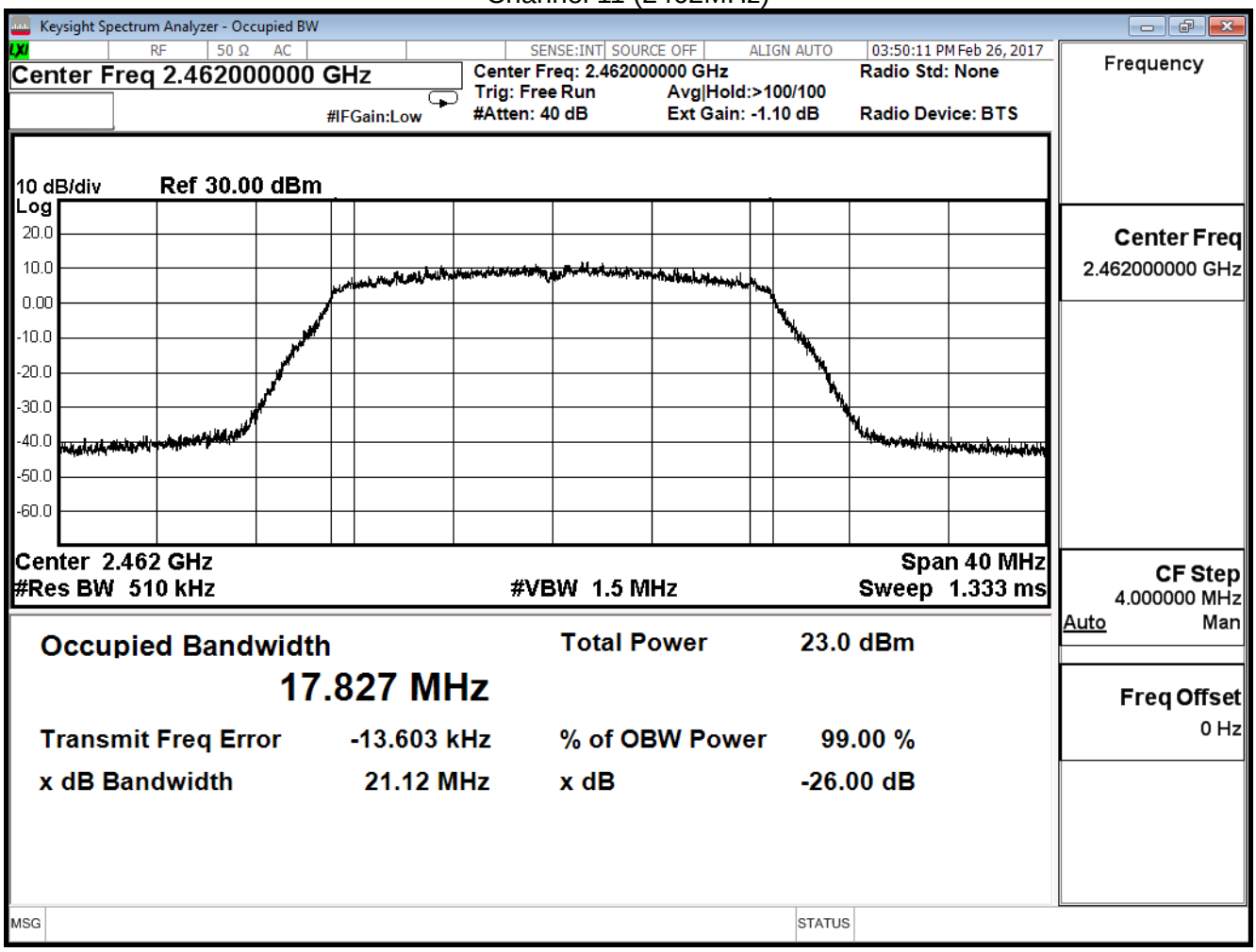
Channel 1 (2412MHz)



Channel 6 (2437MHz)



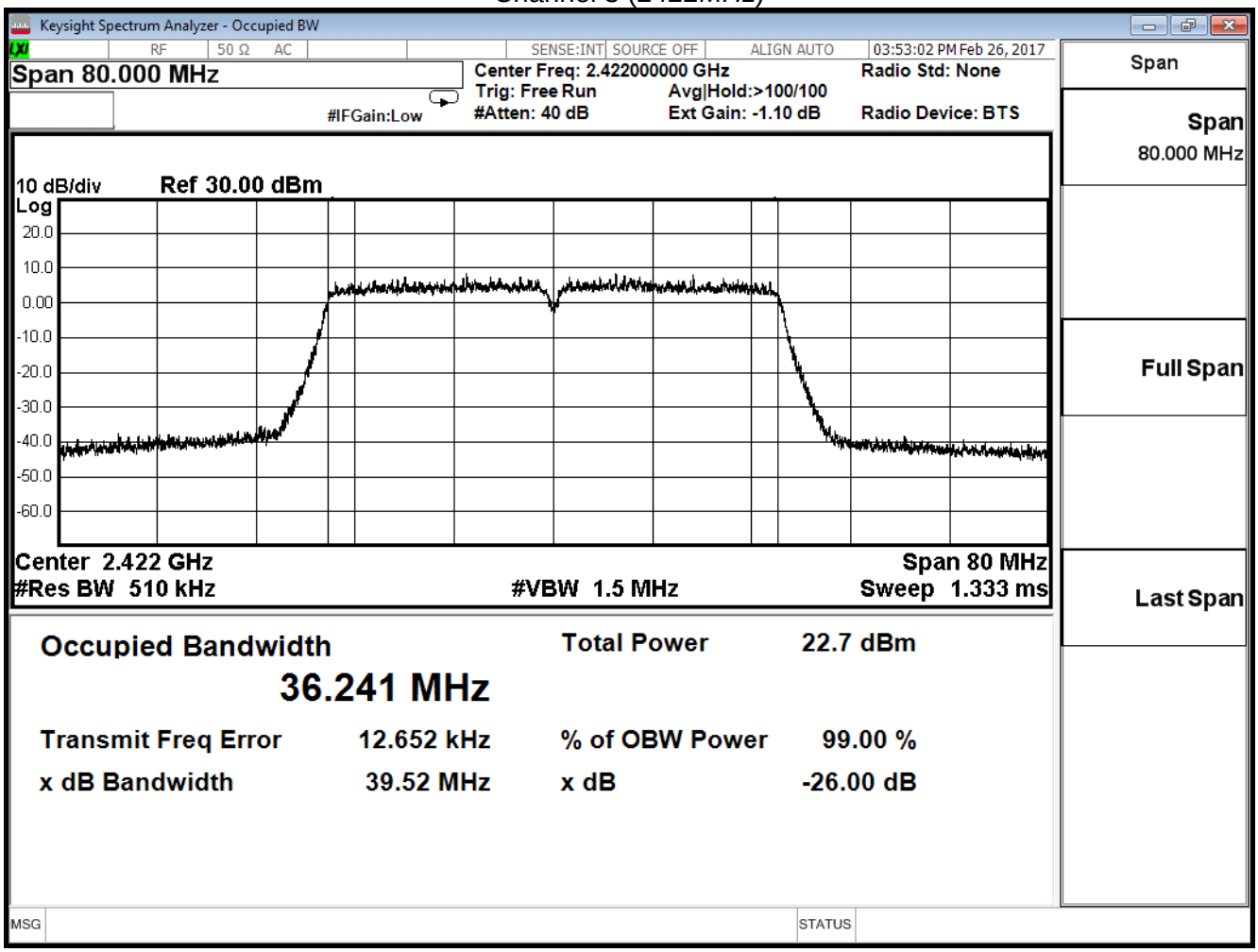
Channel 11 (2462MHz)



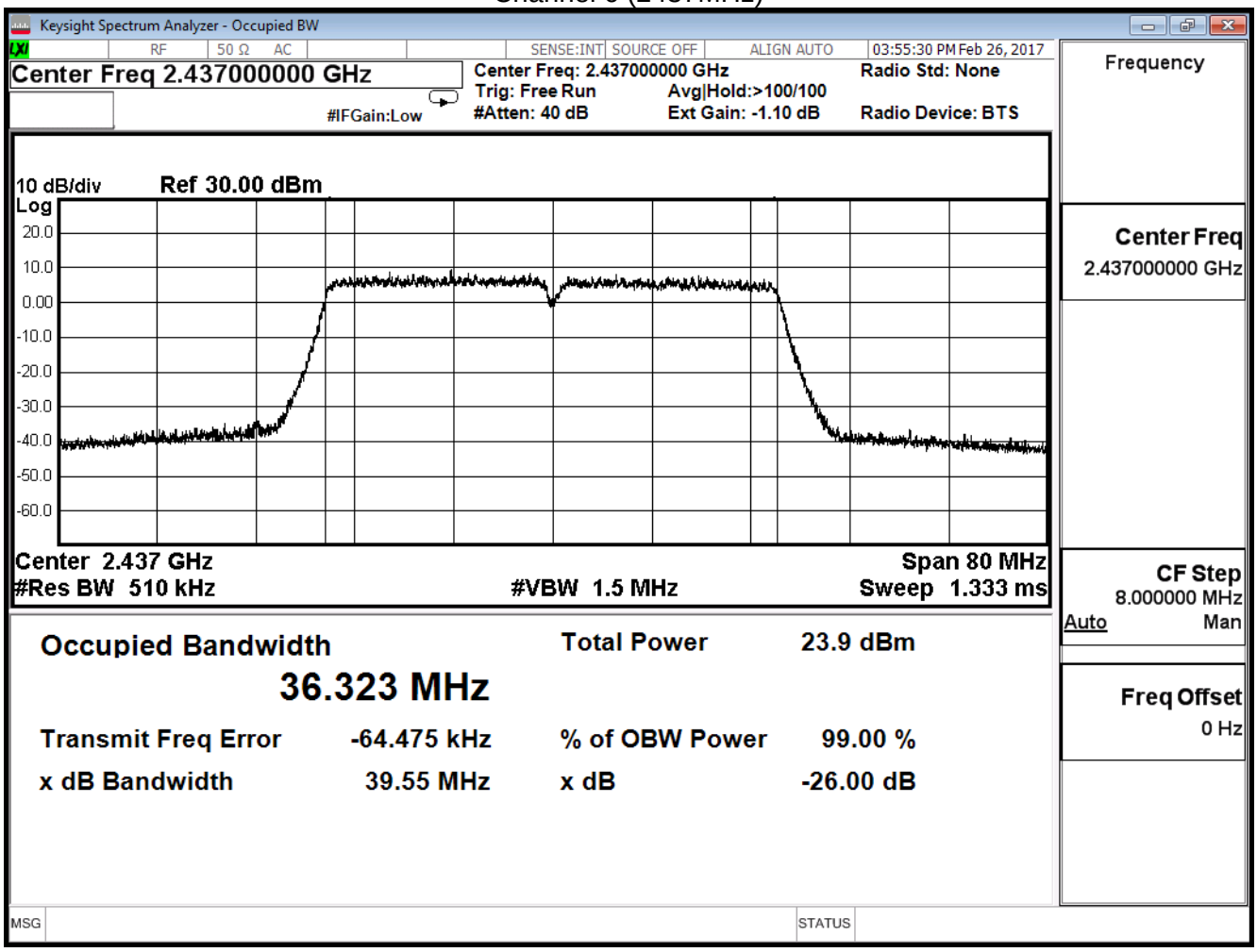
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/26	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	36.241	--	Pass
6	2437	36.323	--	Pass
9	2452	36.377	--	Pass

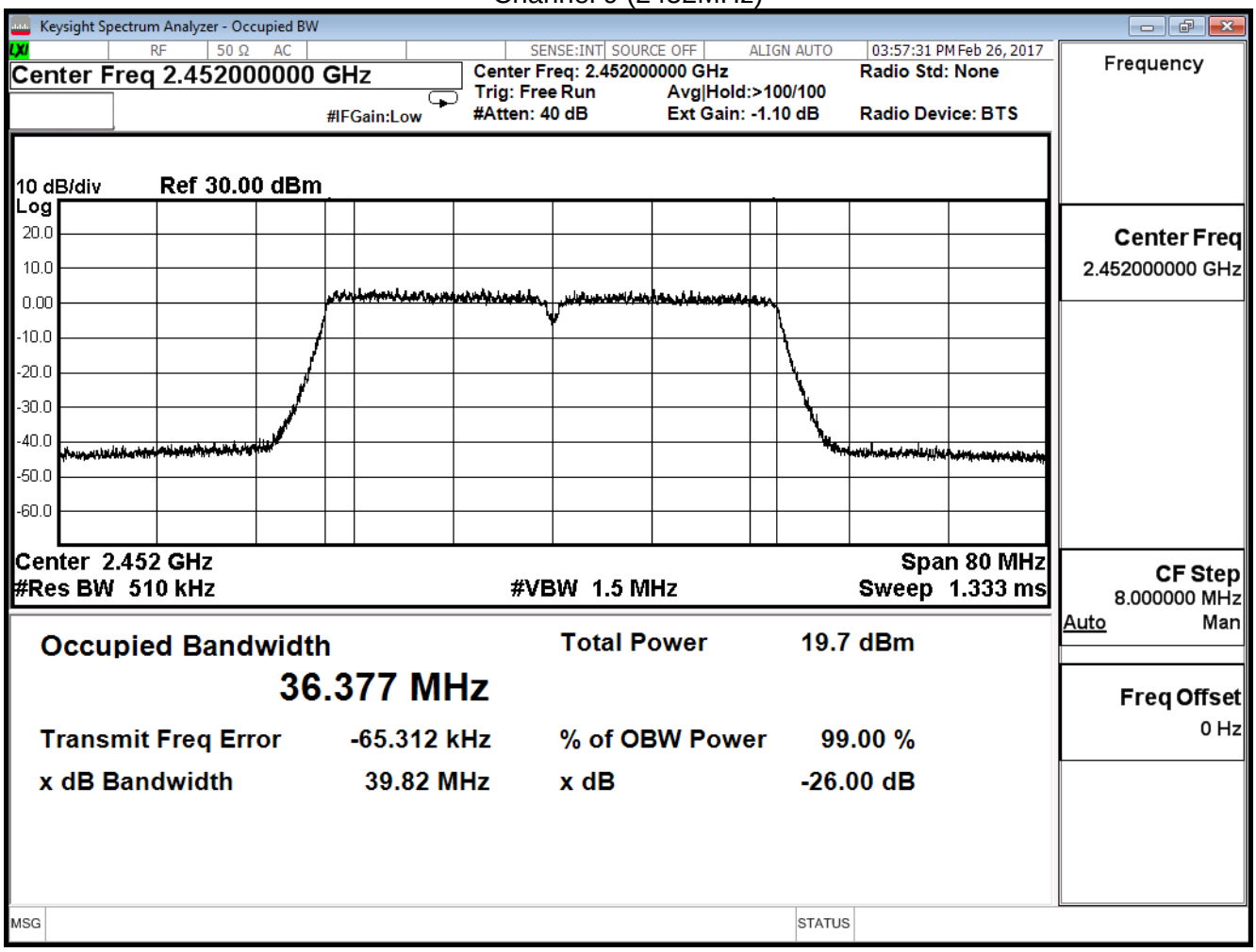
Channel 3 (2422MHz)



Channel 6 (2437MHz)



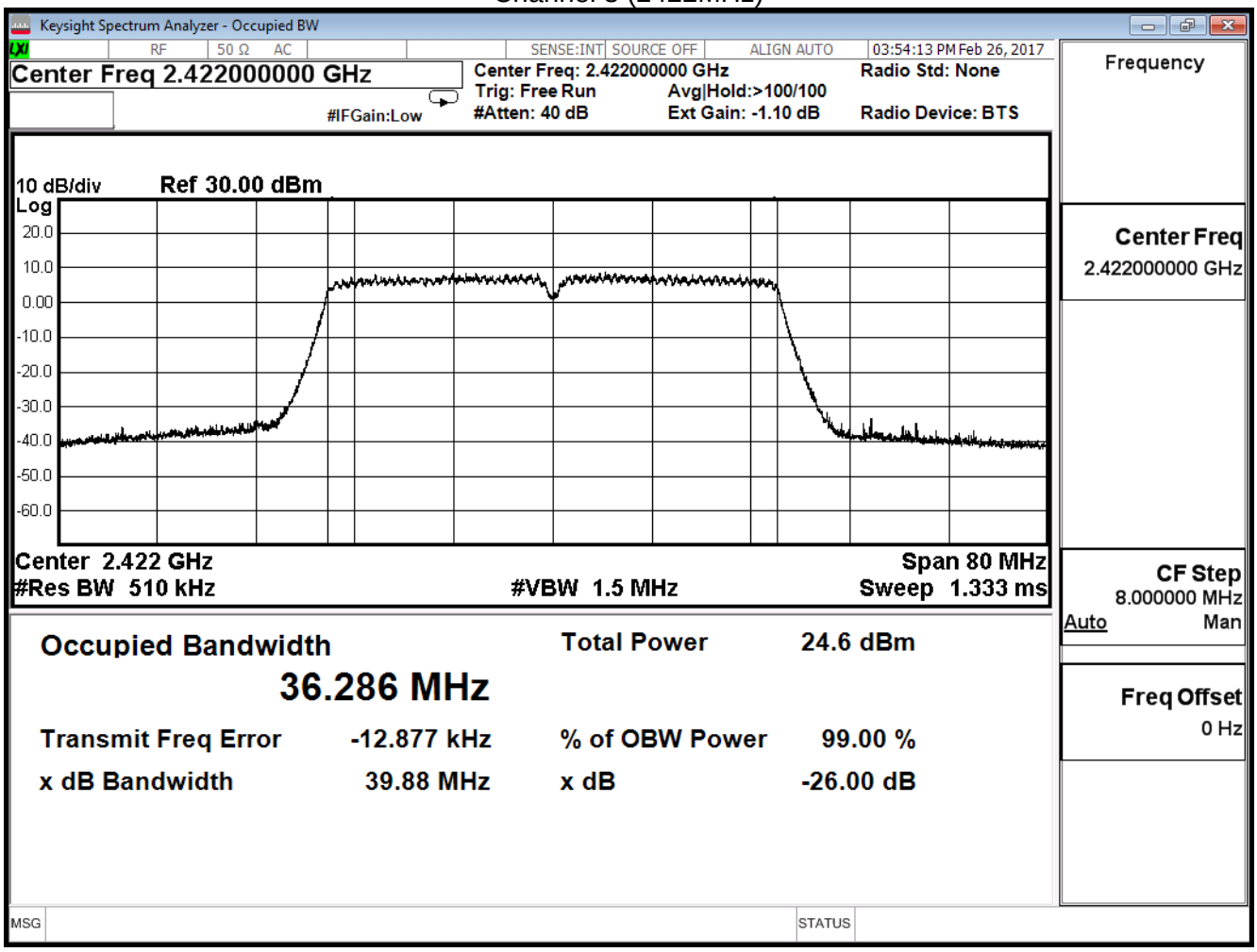
Channel 9 (2452MHz)



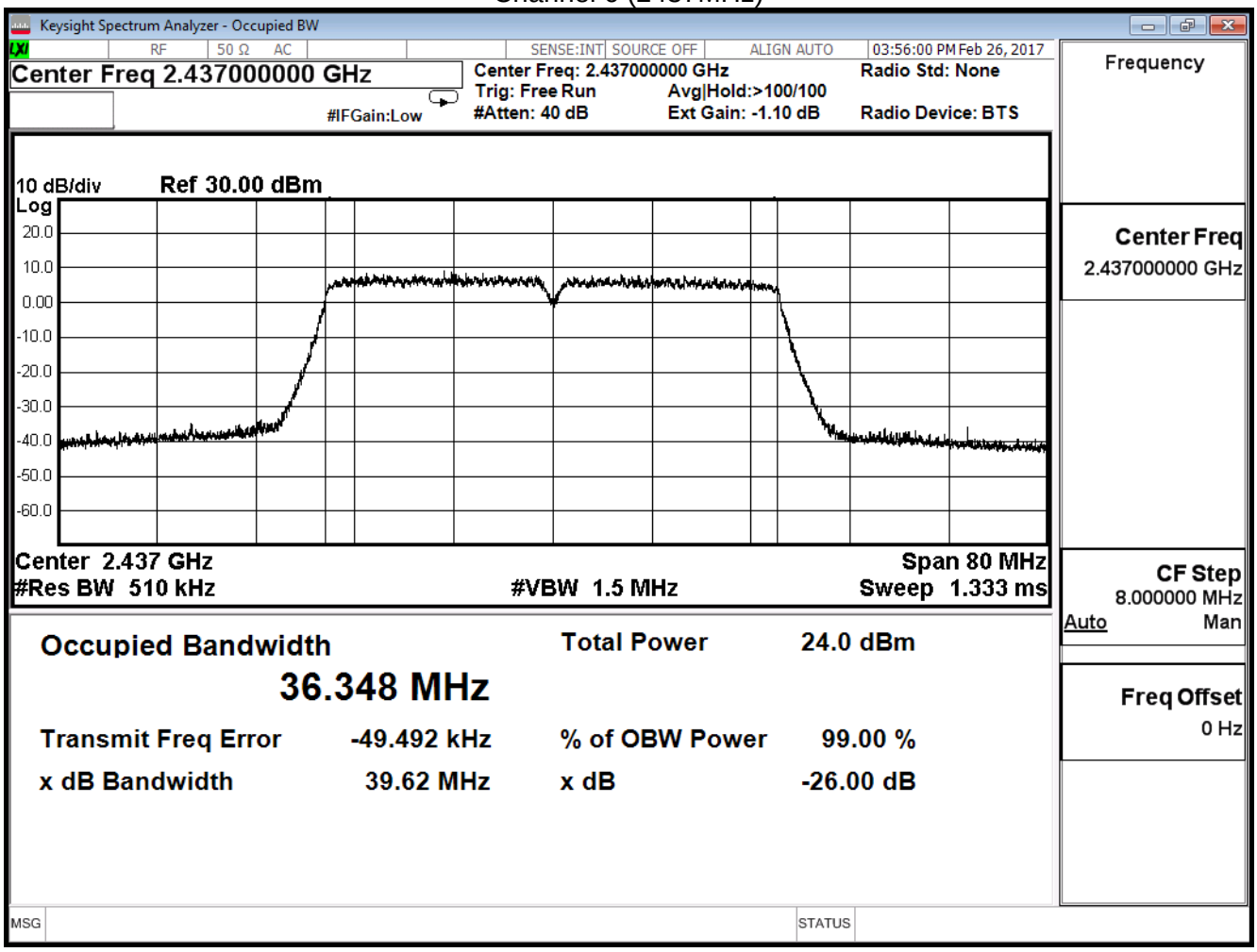
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/26	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	36.286	--	Pass
6	2437	36.348	--	Pass
9	2452	36.349	--	Pass

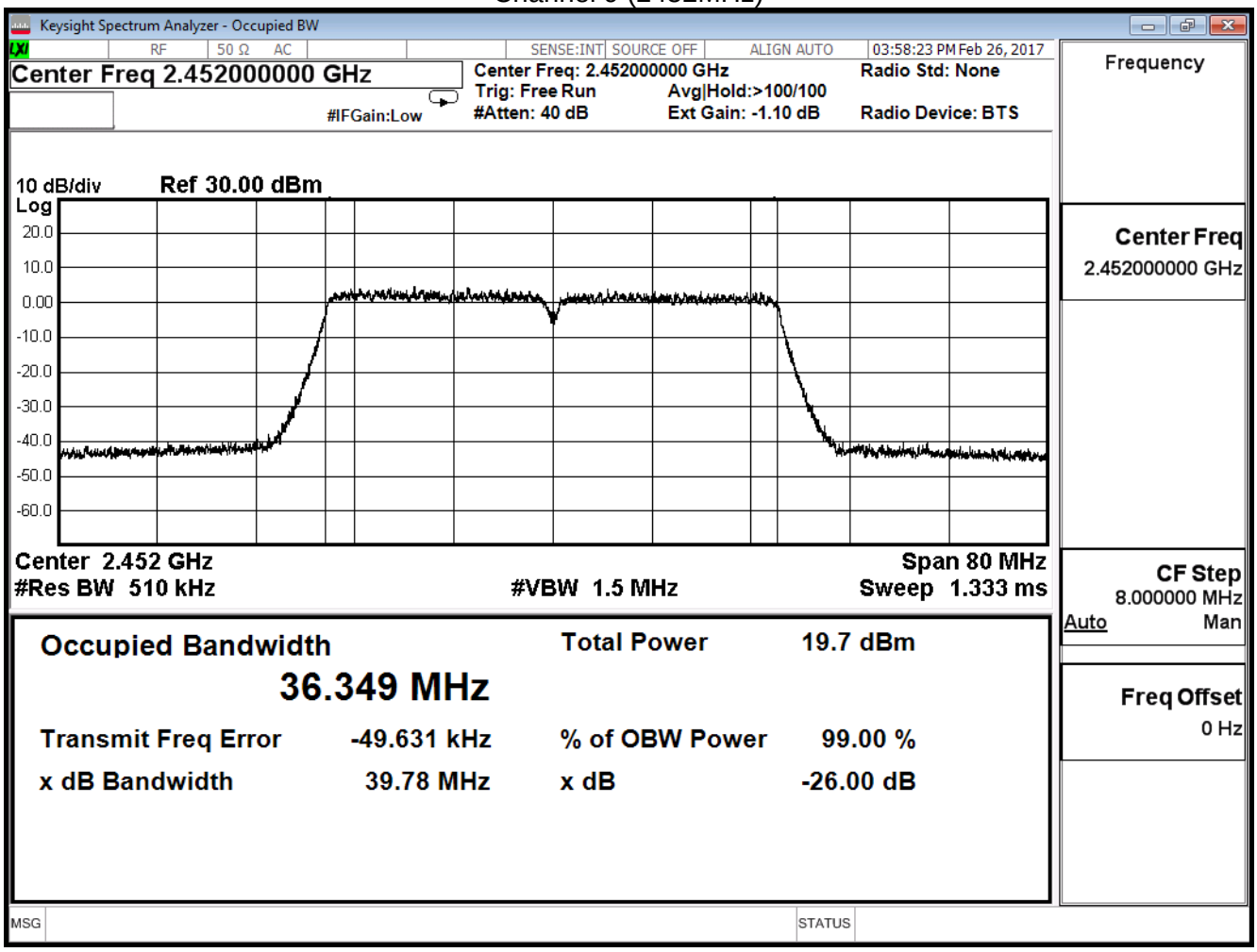
Channel 3 (2422MHz)



Channel 6 (2437MHz)



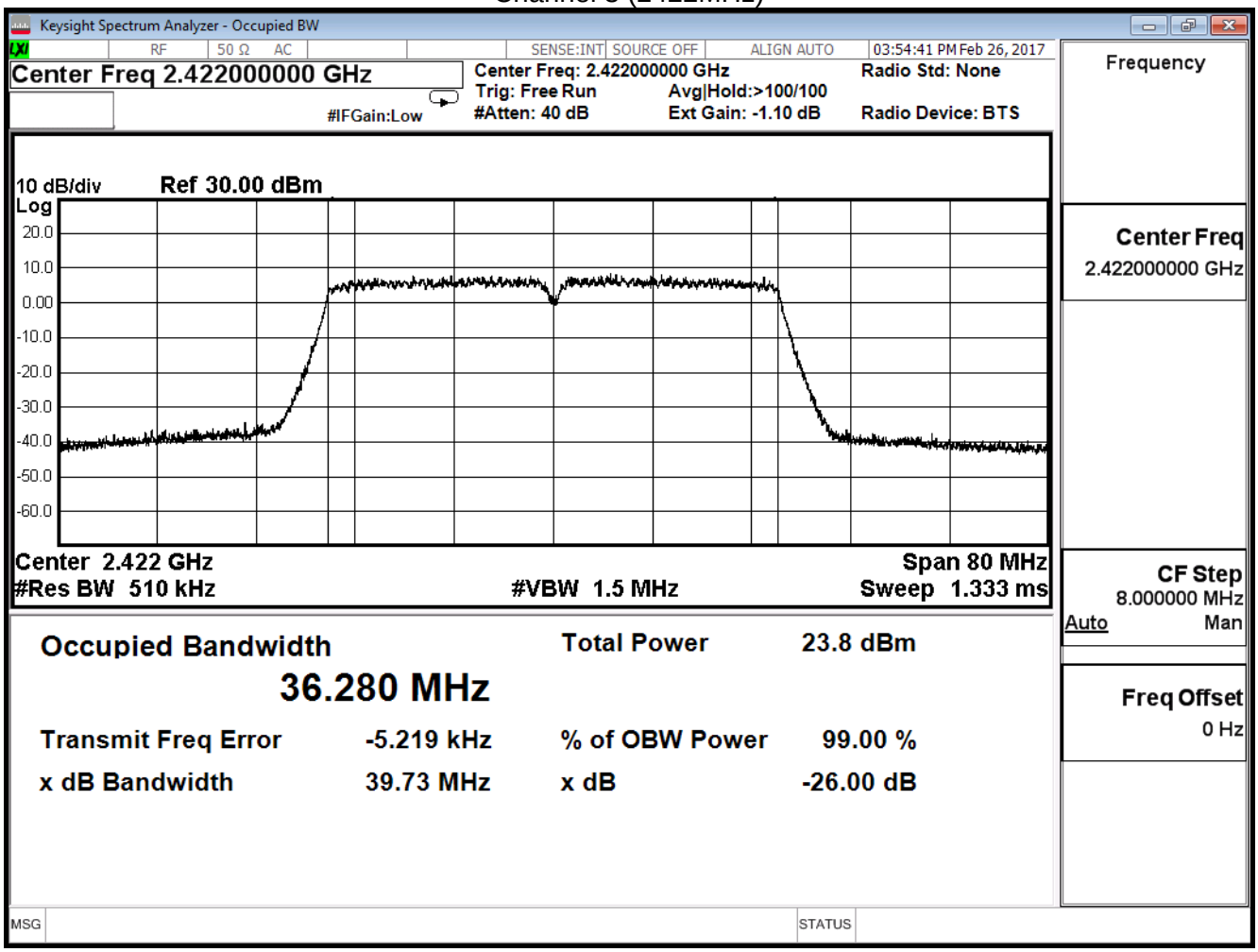
Channel 9 (2452MHz)



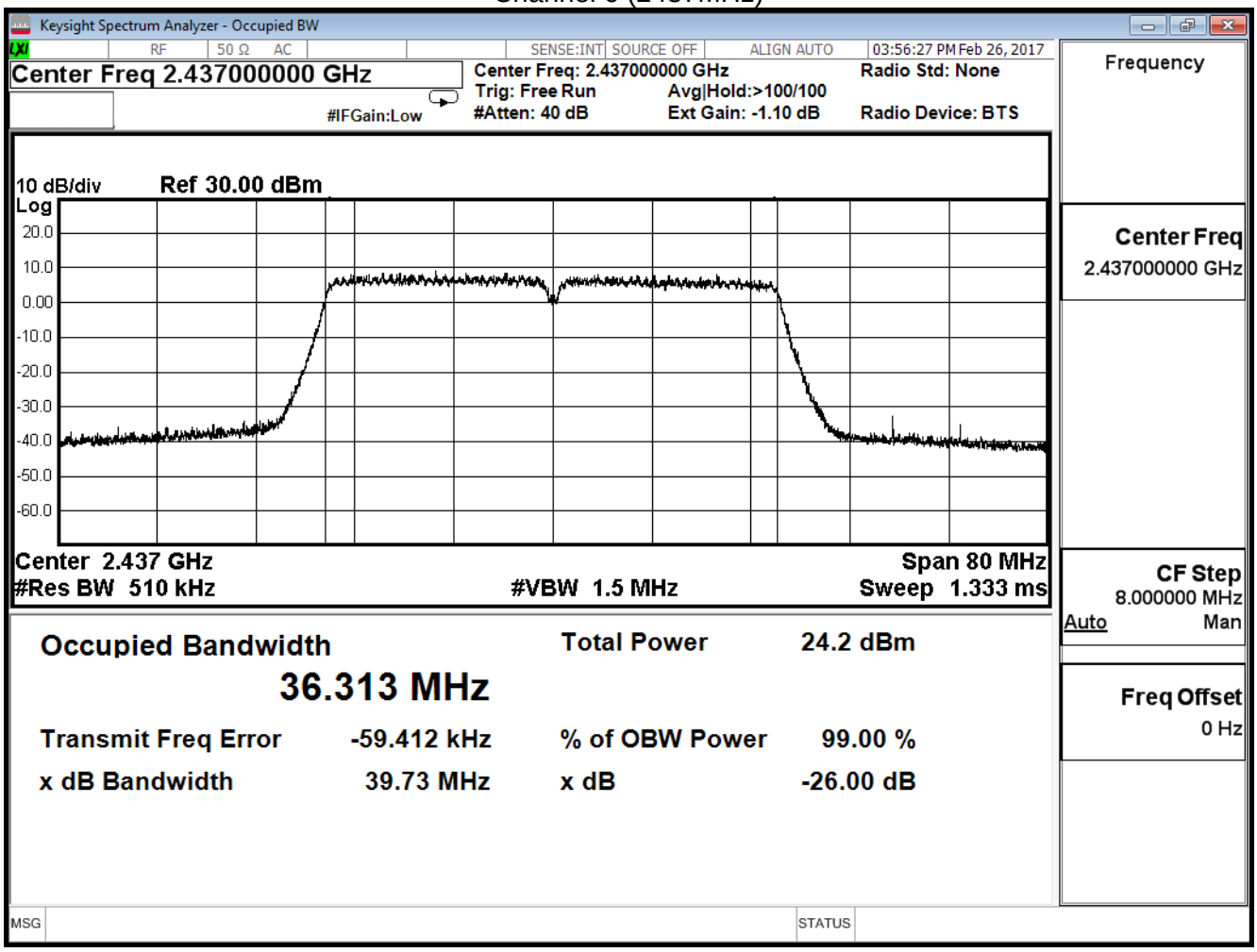
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/26	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	36.280	--	Pass
6	2437	36.313	--	Pass
9	2452	36.368	--	Pass

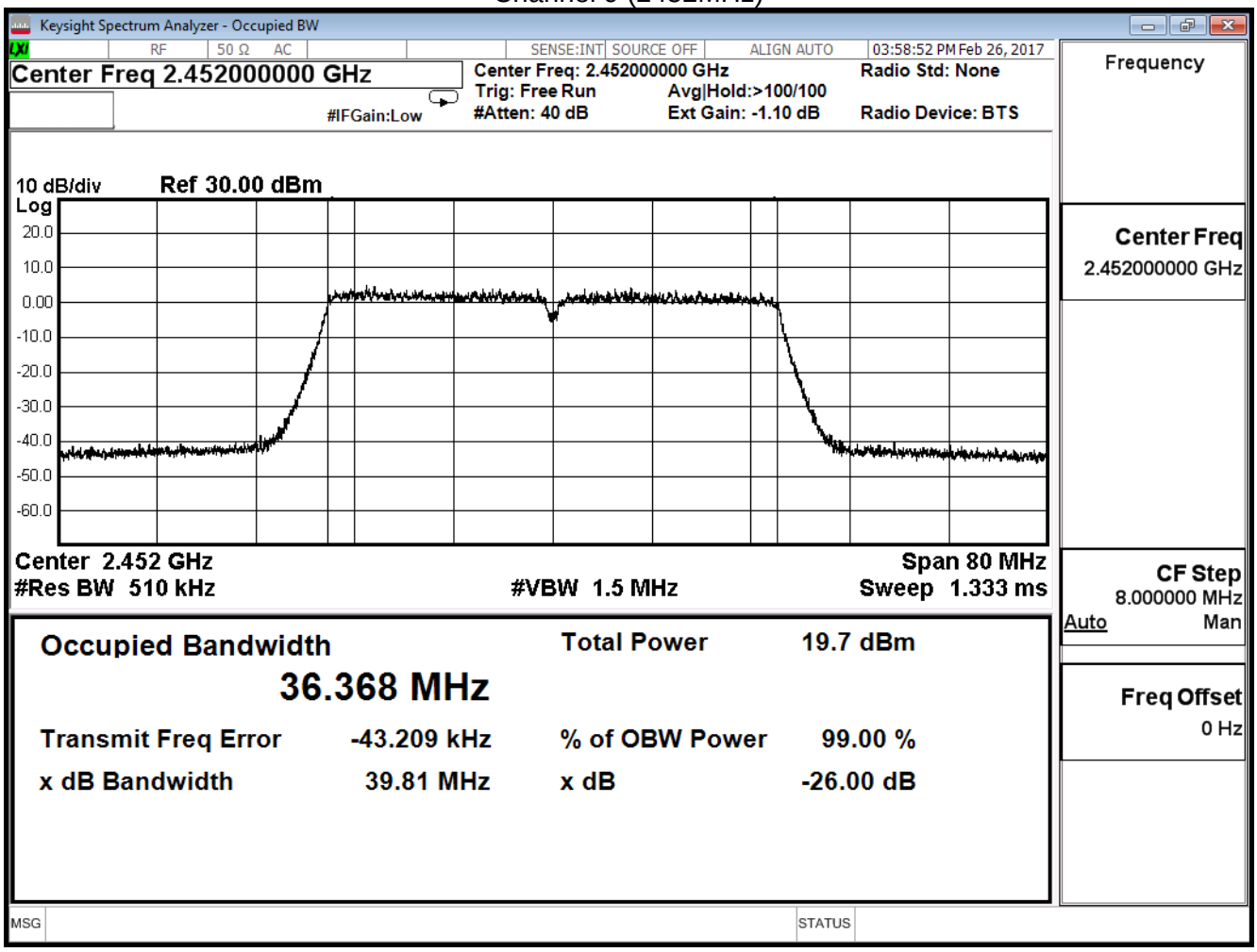
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



9. Power Density

9.1. Test Equipment

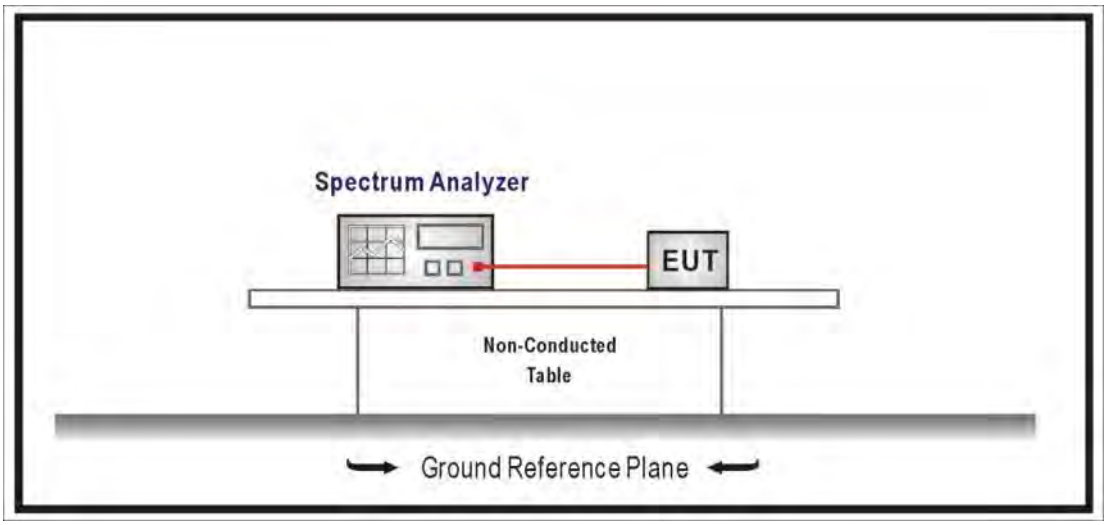
The following test equipment is used during the test:

Power Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08

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

9.2. Test Setup



9.3. 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.

9.4. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure section 10.2 of KDB558074 v03r05 for compliance to FCC 47CFR 15.247 requirements.
Set 3KHz ≦RBW≦100 kHz, Set VBW≧3xRBW, Sweep time=Auto, Set Peak detector.

9.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

9.6. Uncertainty

The measurement uncertainty is defined as ±1.27dB.

9.7. Test Result

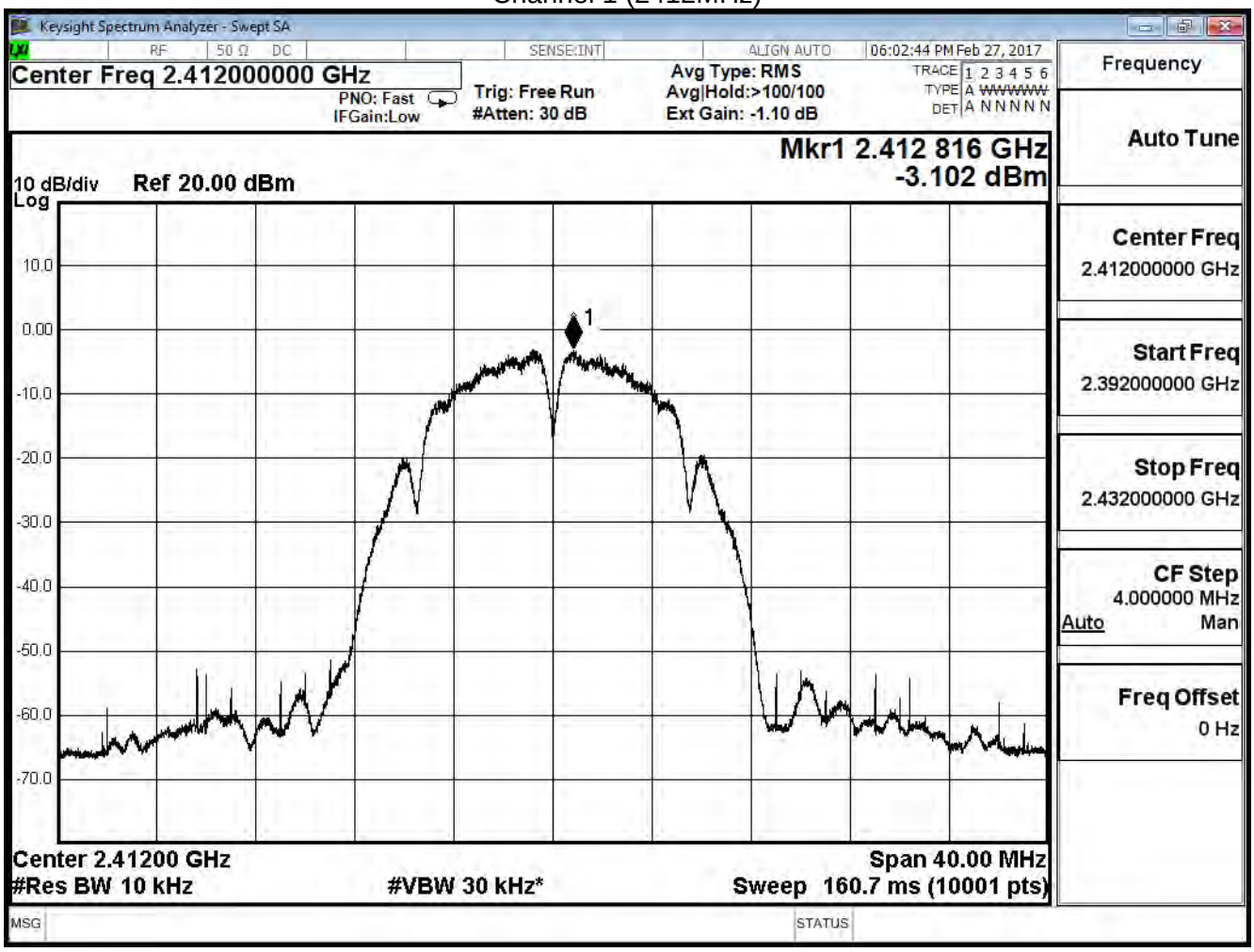
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-3.102	≦7.90	Pass
6	2437	0.257	≦7.90	Pass
11	2462	-5.306	≦7.90	Pass

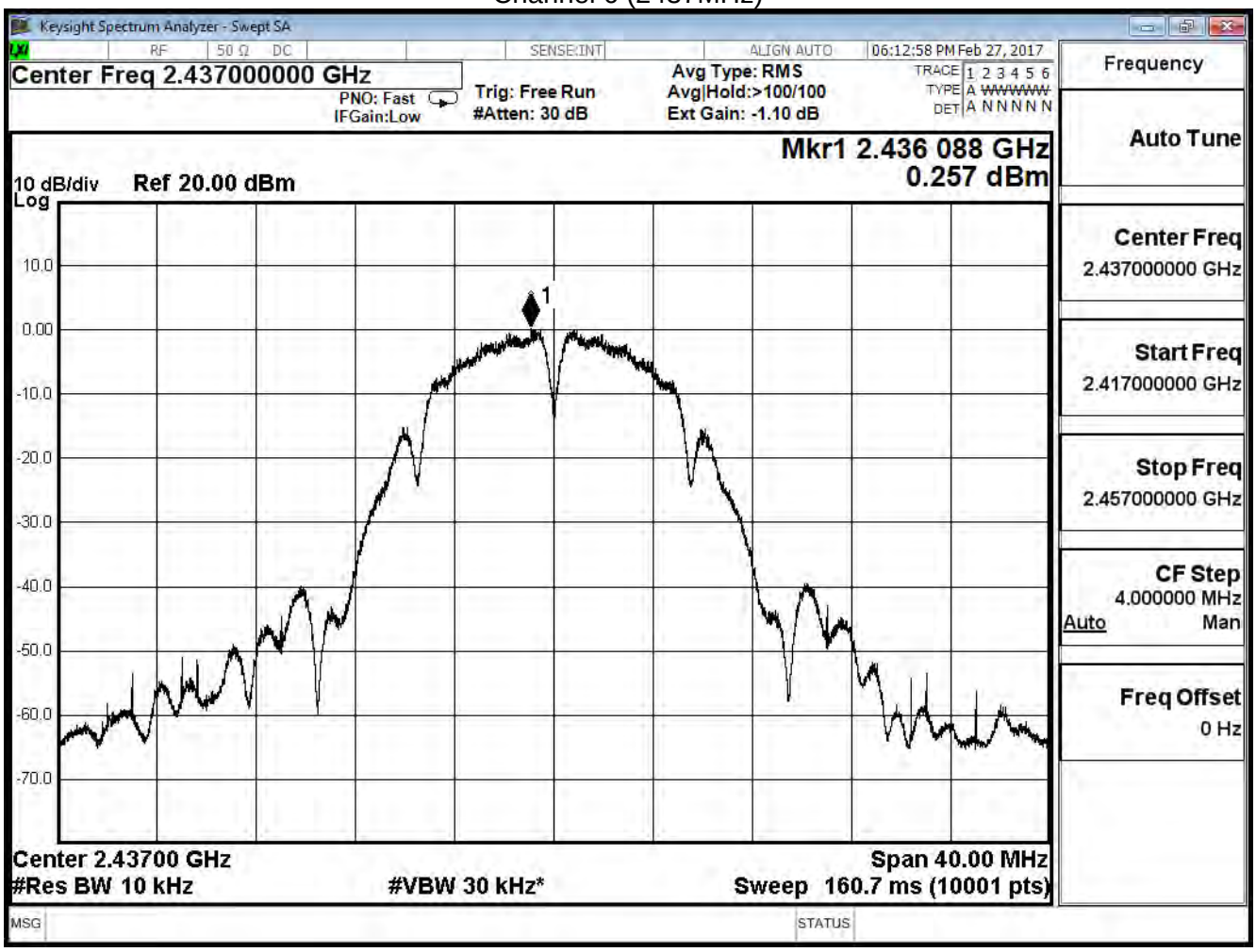
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

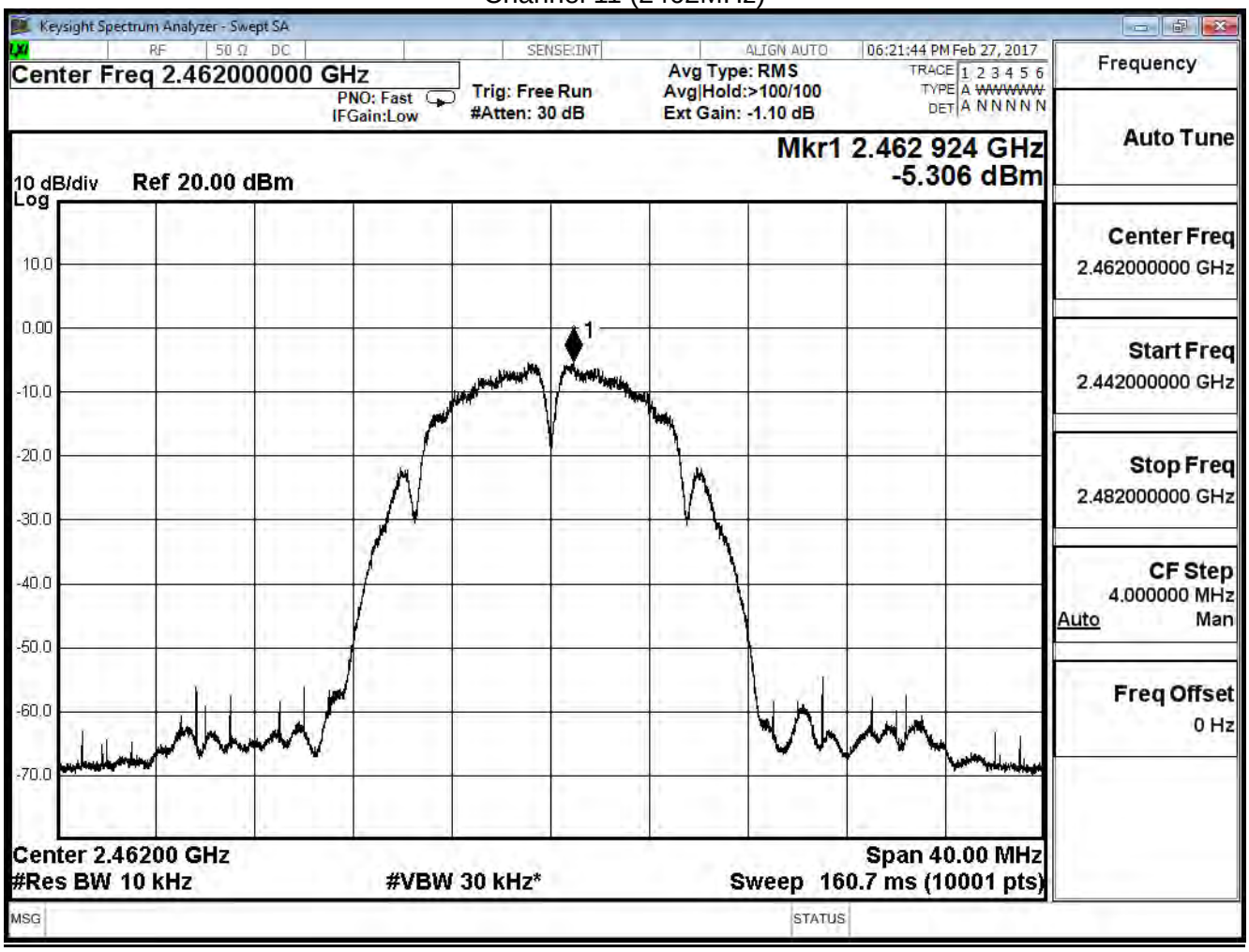
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



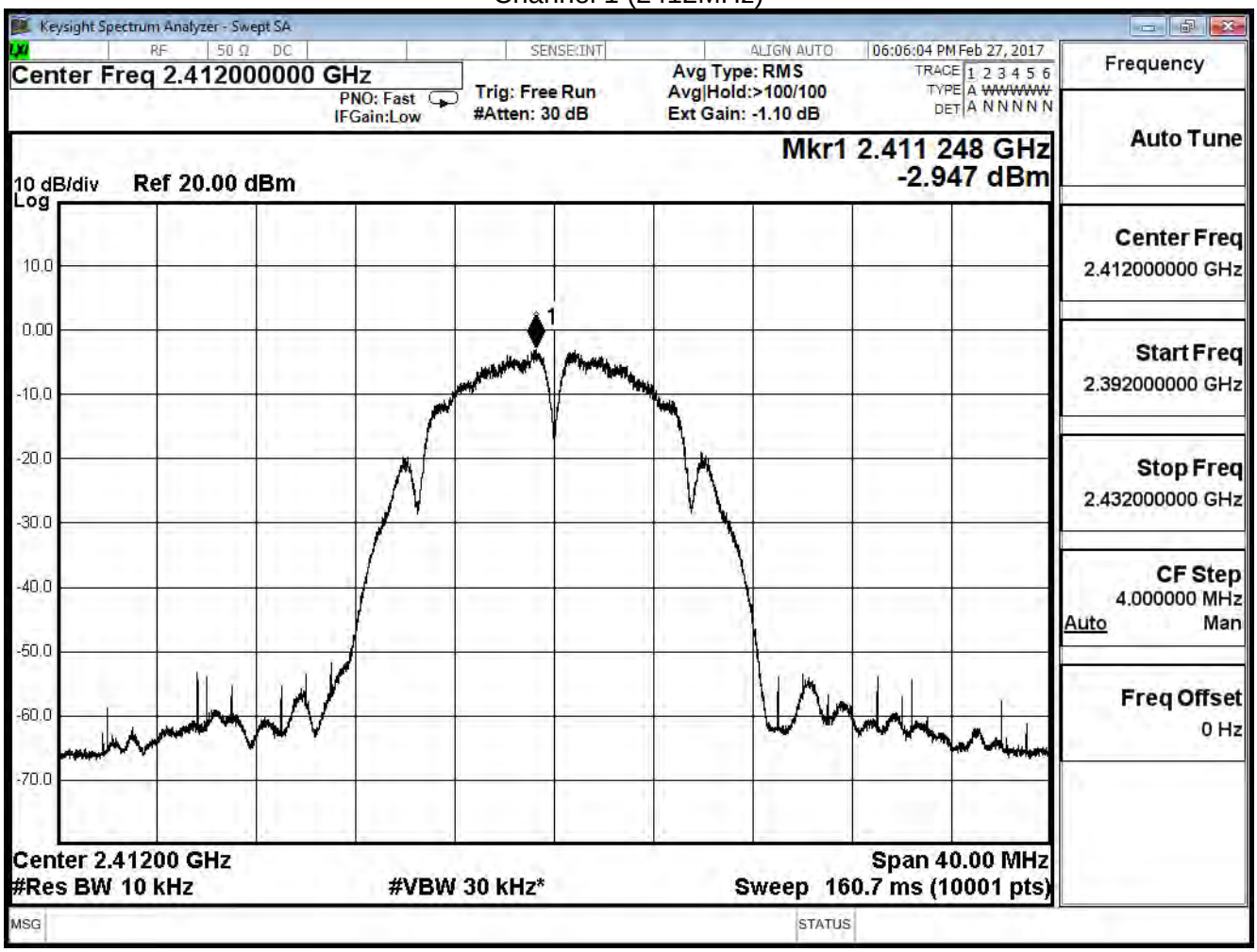
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11b (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-2.947	≦7.90	Pass
6	2437	0.350	≦7.90	Pass
11	2462	-5.197	≦7.90	Pass

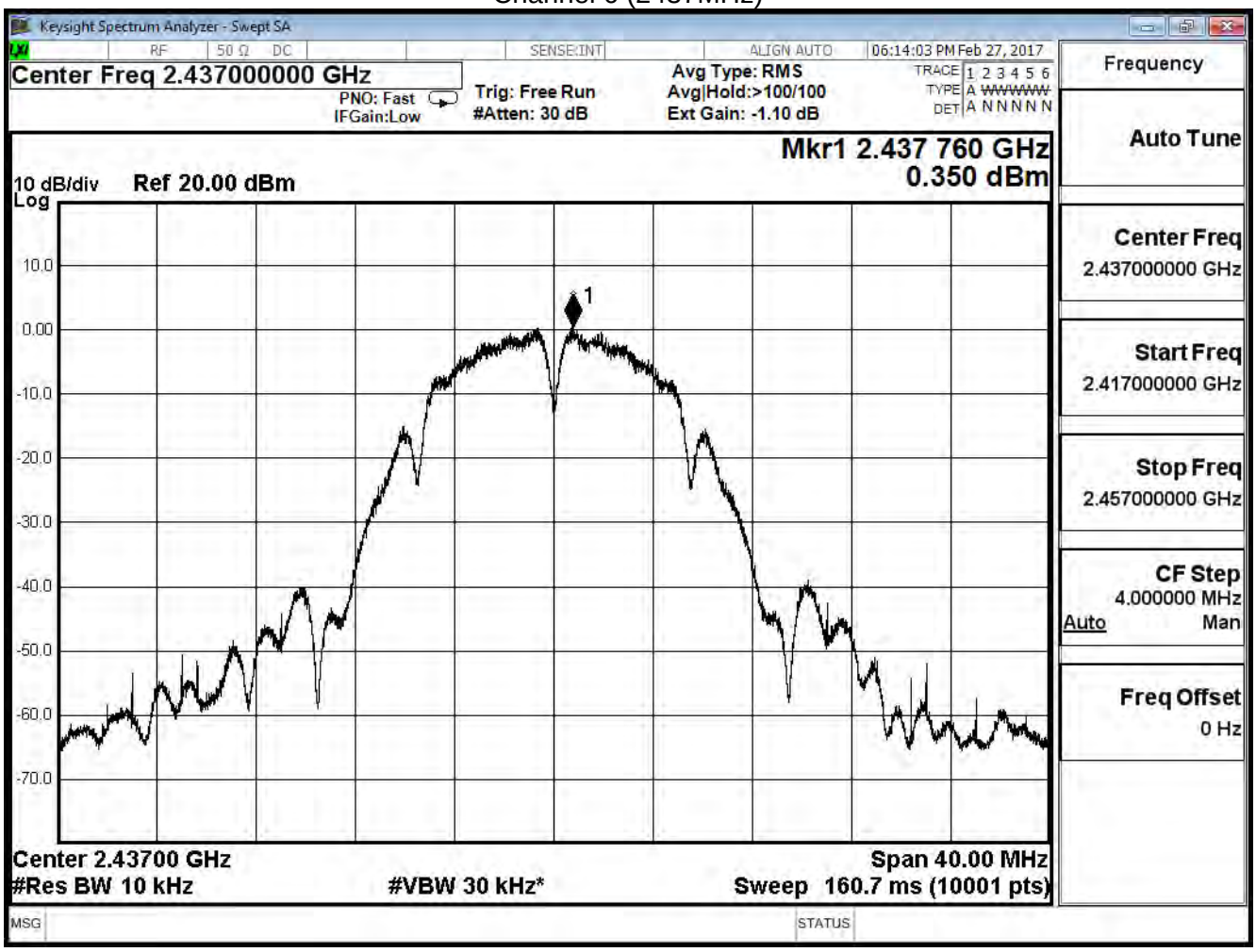
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

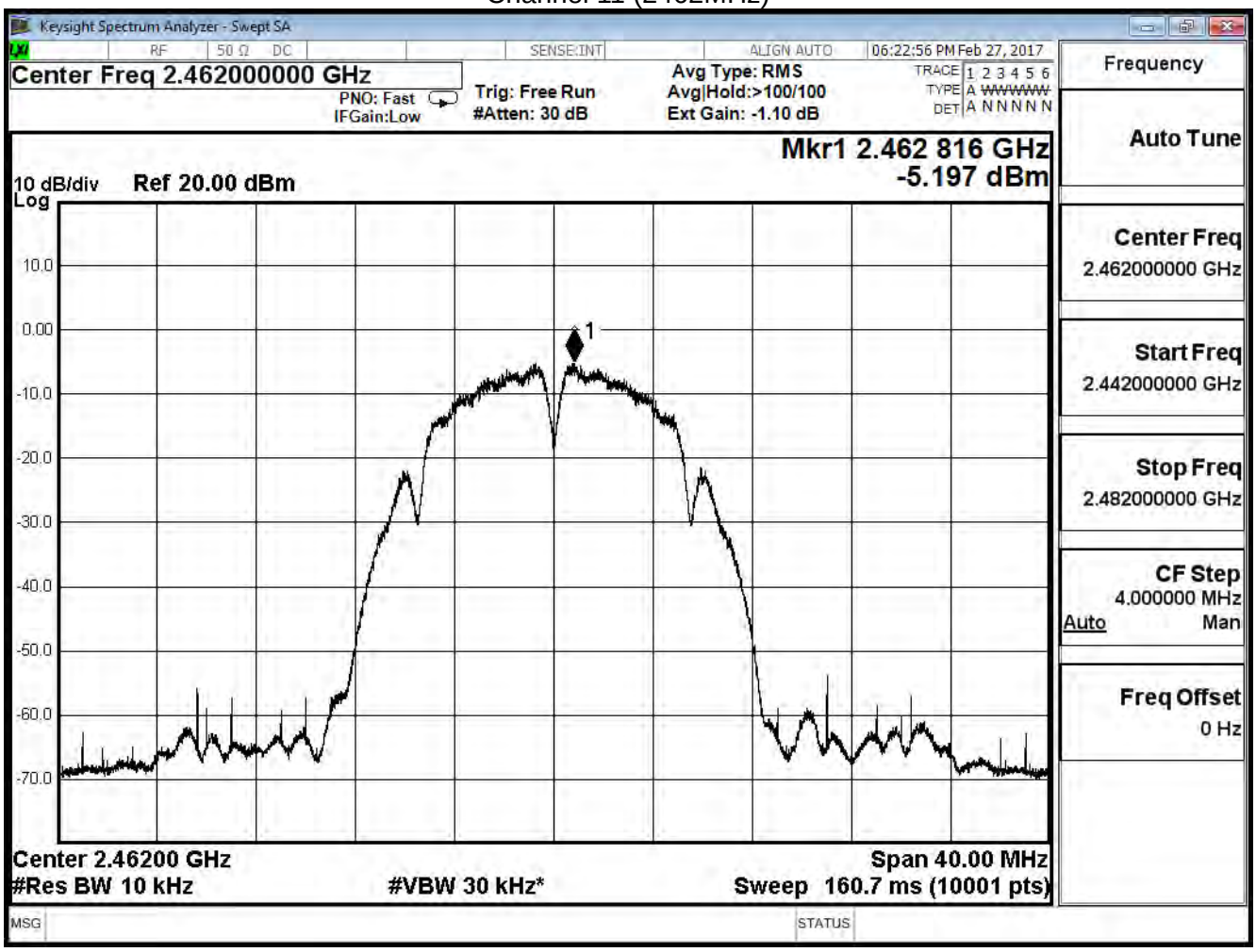
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



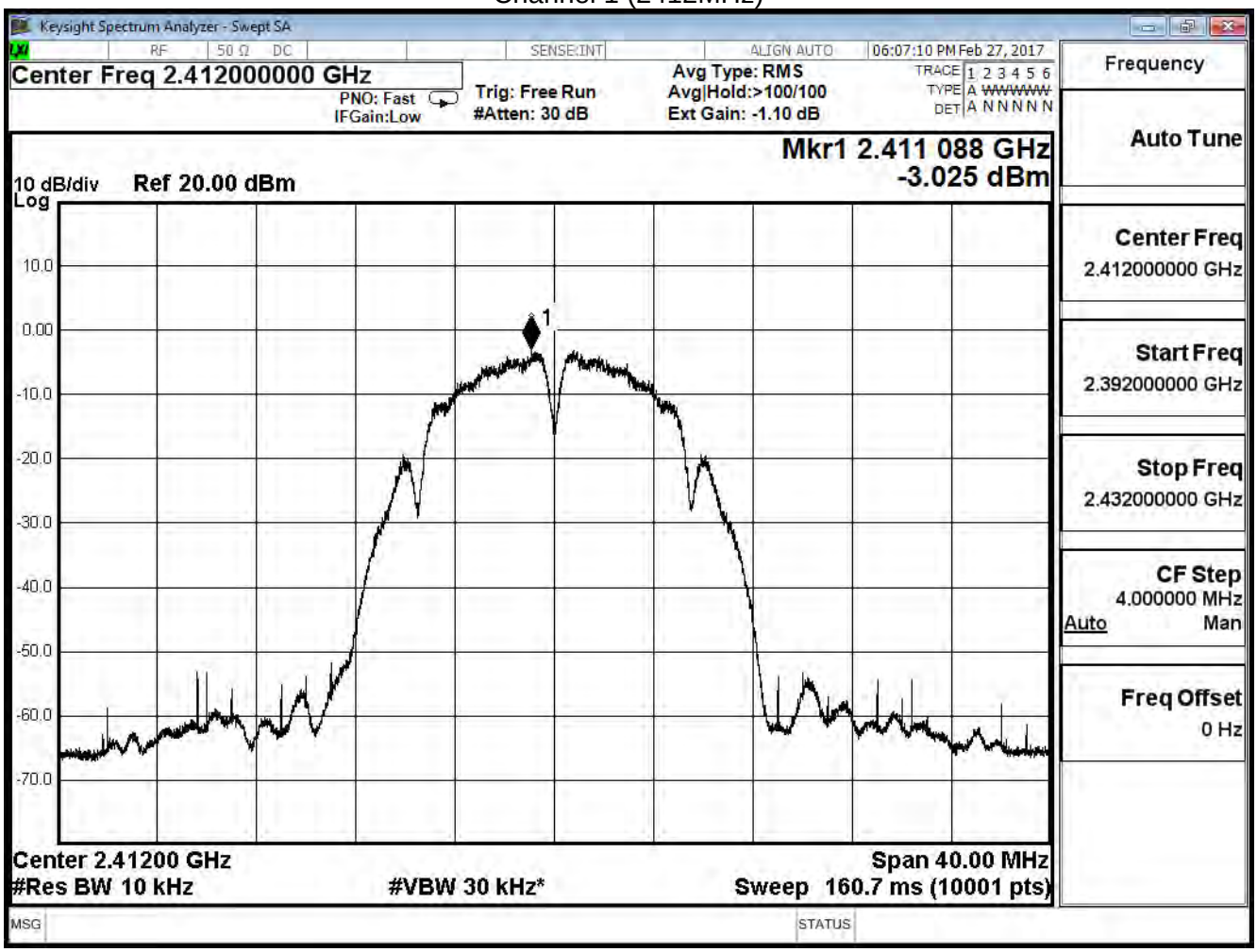
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11b (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-3.025	≦7.90	Pass
6	2437	0.136	≦7.90	Pass
11	2462	-5.013	≦7.90	Pass

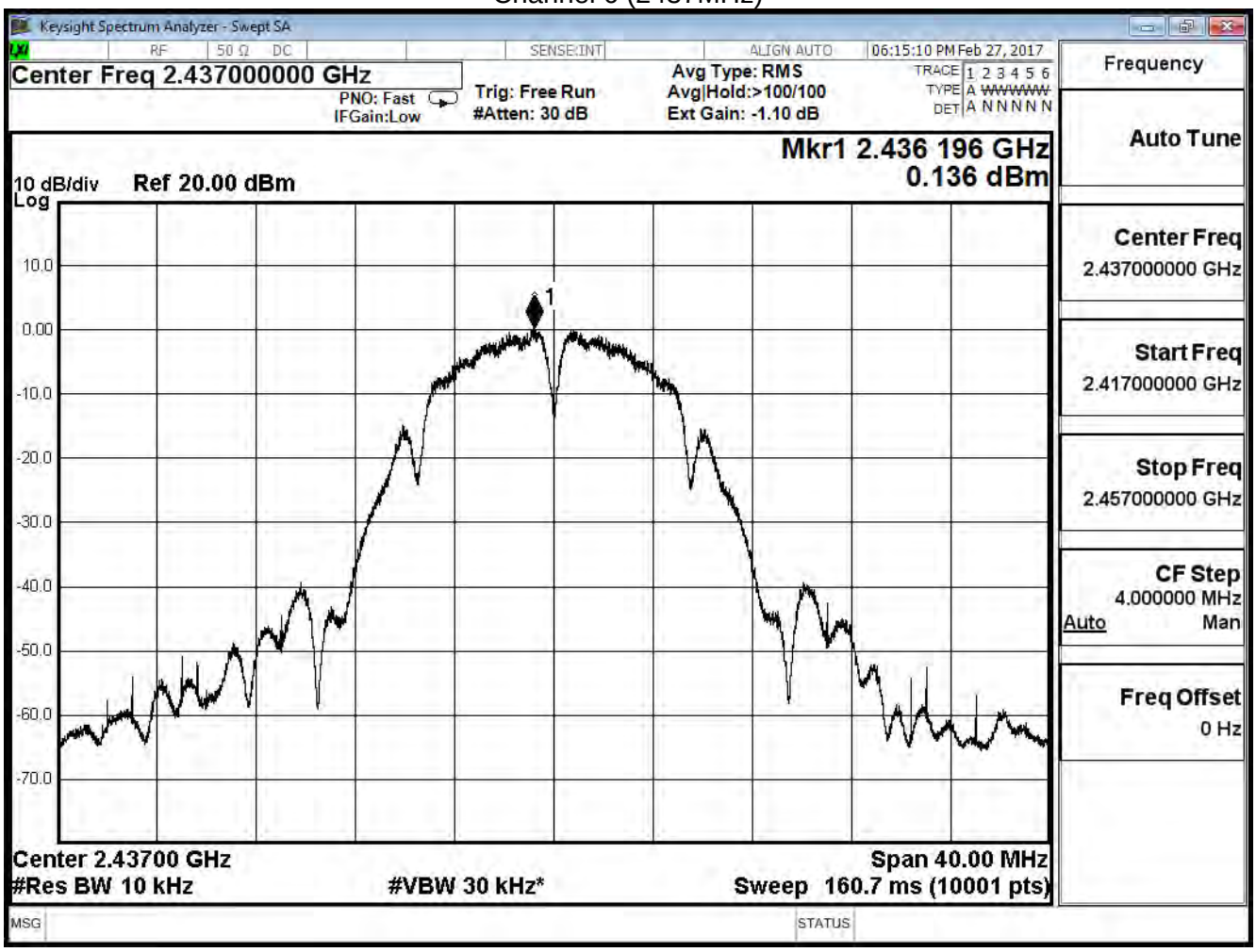
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

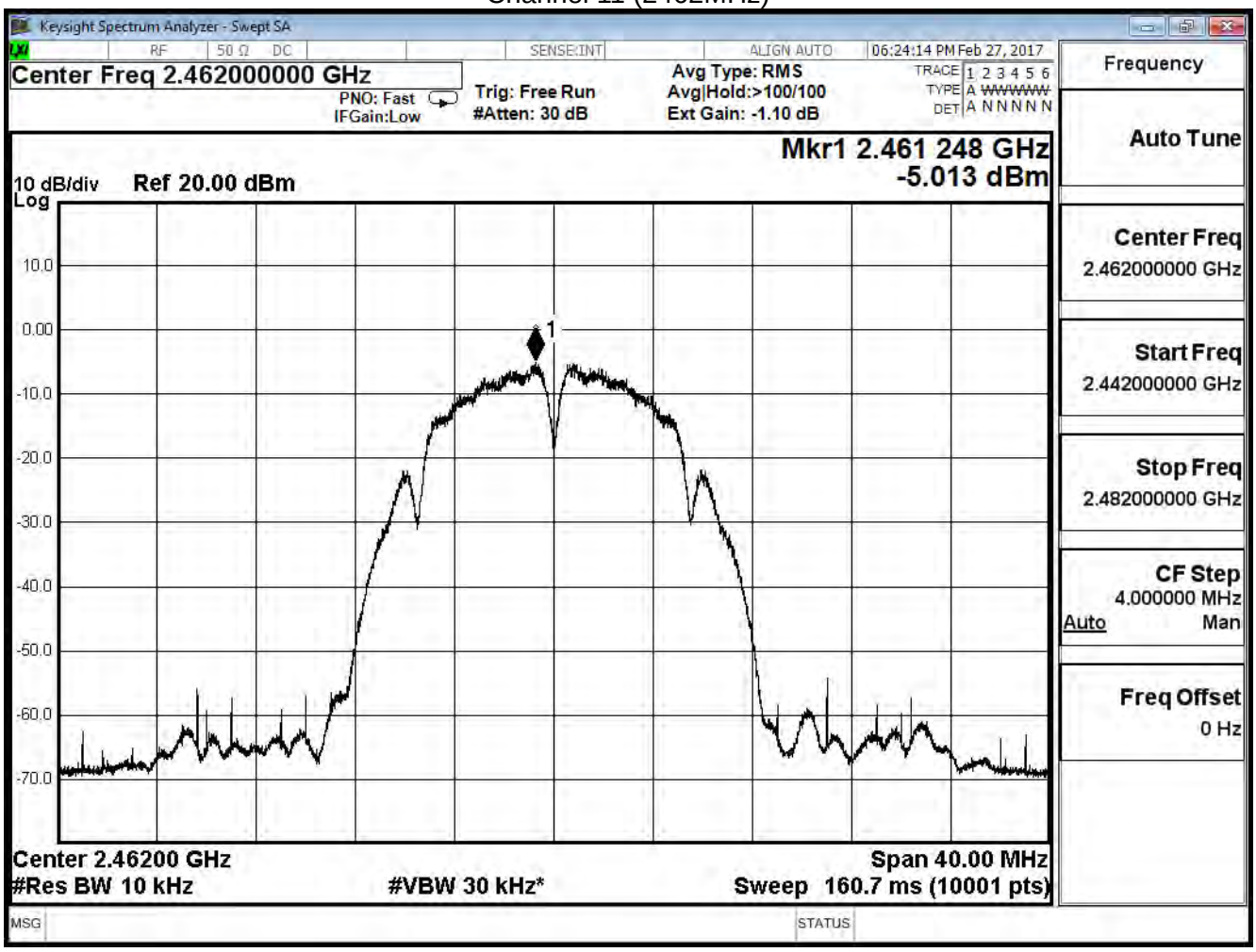
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11b (ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	1.747	≦7.90	Pass
6	2437	5.020	≦7.90	Pass
11	2462	-15.516	≦7.90	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

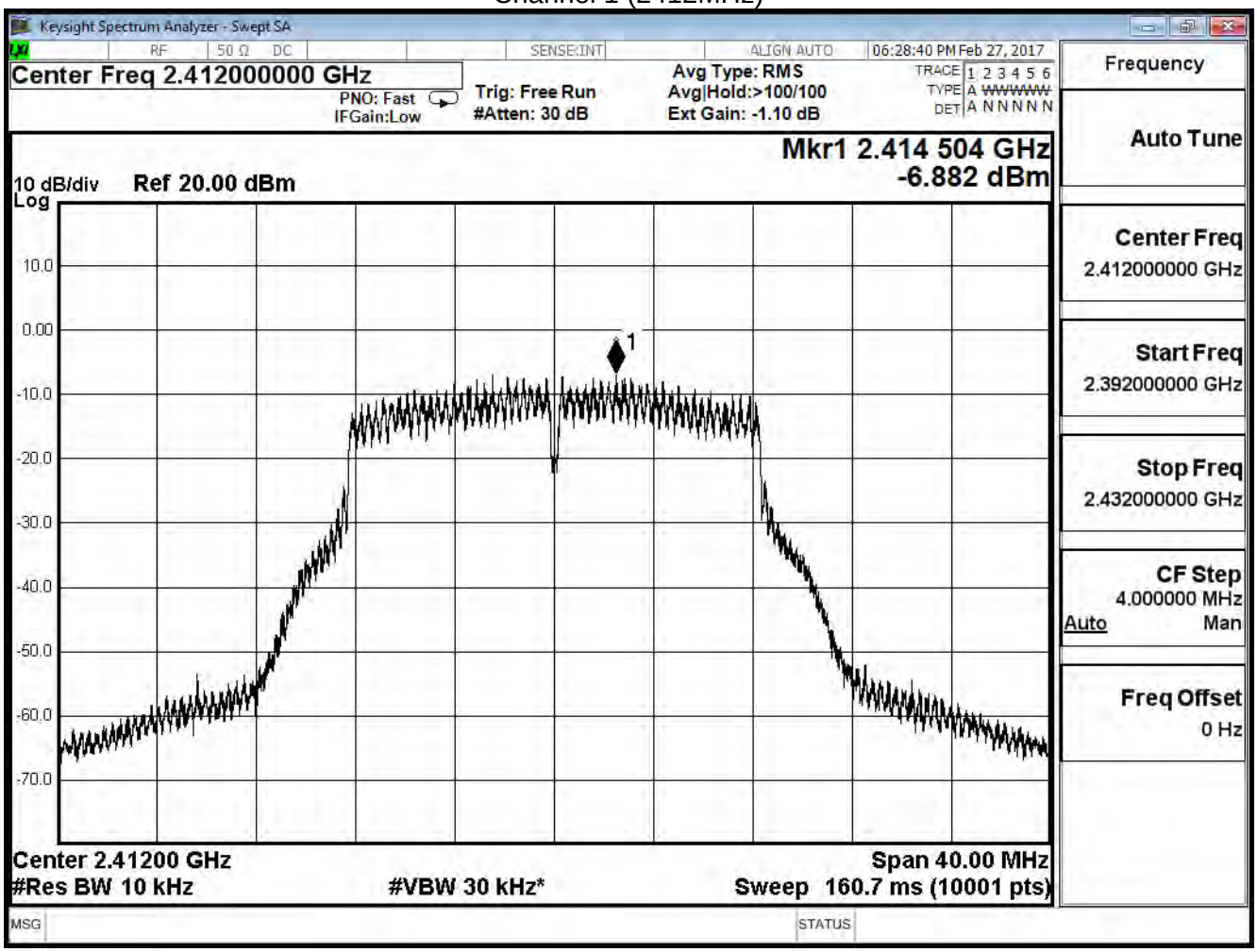
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-6.882	≦7.90	Pass
6	2437	-0.419	≦7.90	Pass
11	2462	-10.002	≦7.90	Pass

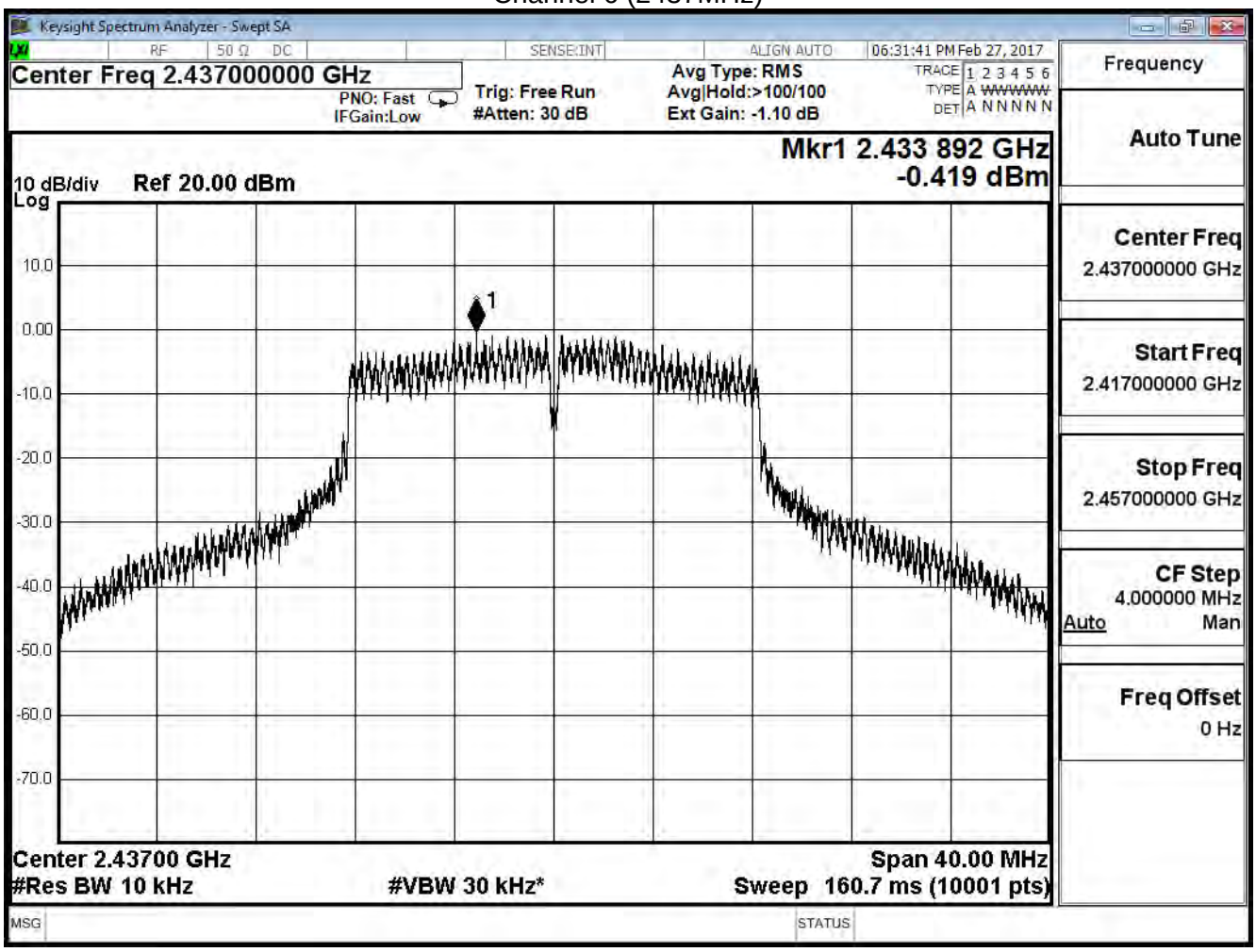
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

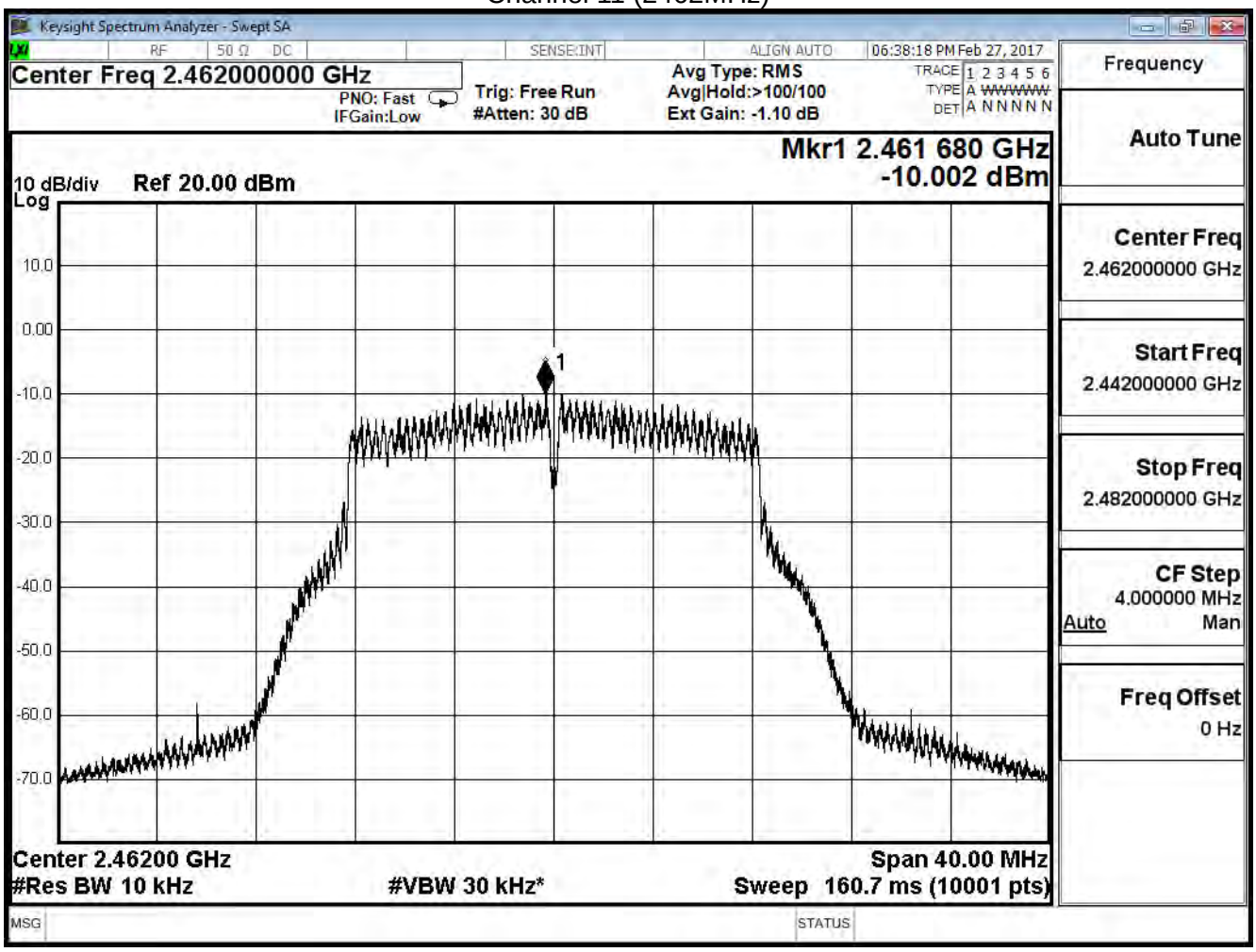
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



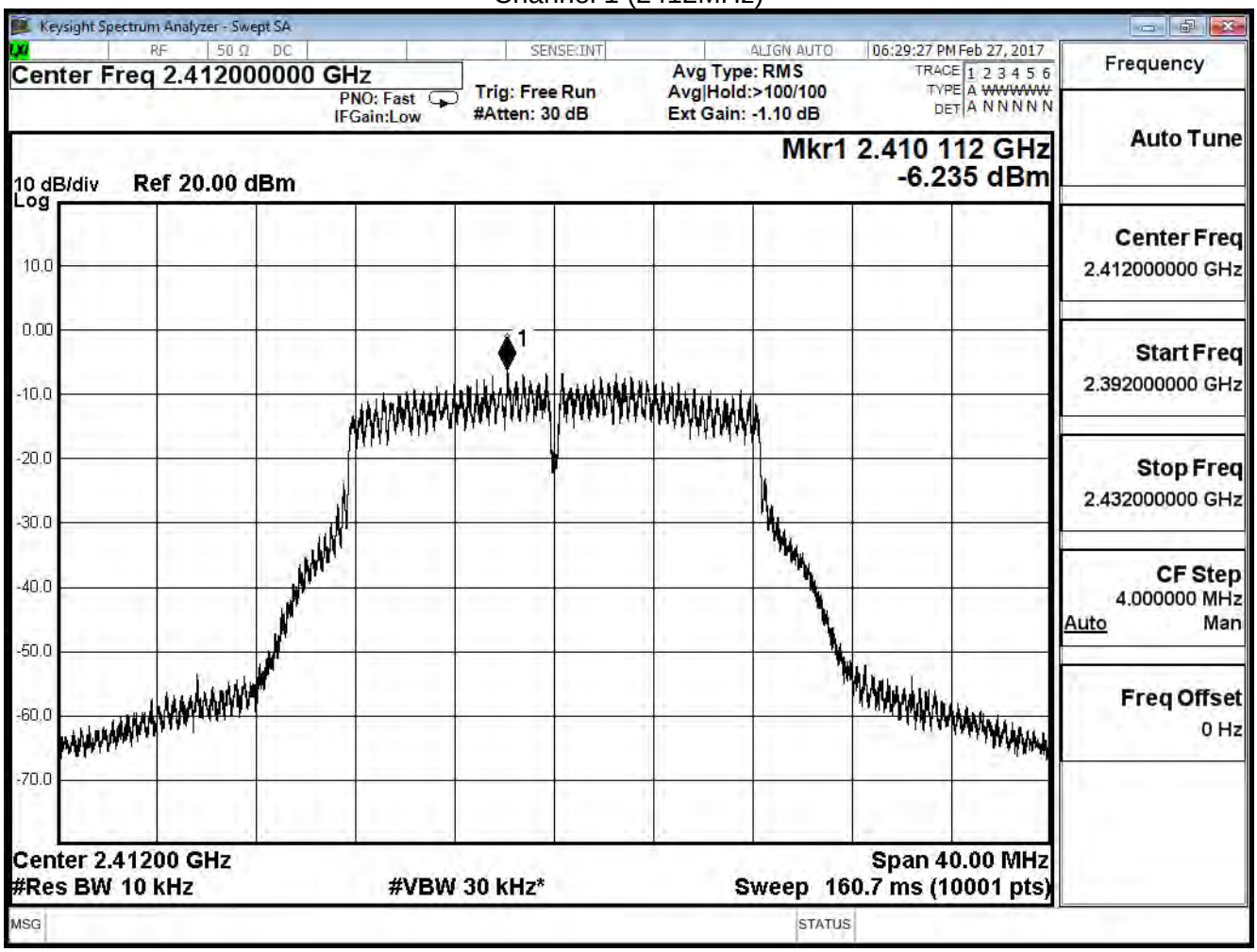
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11g (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-6.235	≦7.90	Pass
6	2437	-0.536	≦7.90	Pass
11	2462	-9.741	≦7.90	Pass

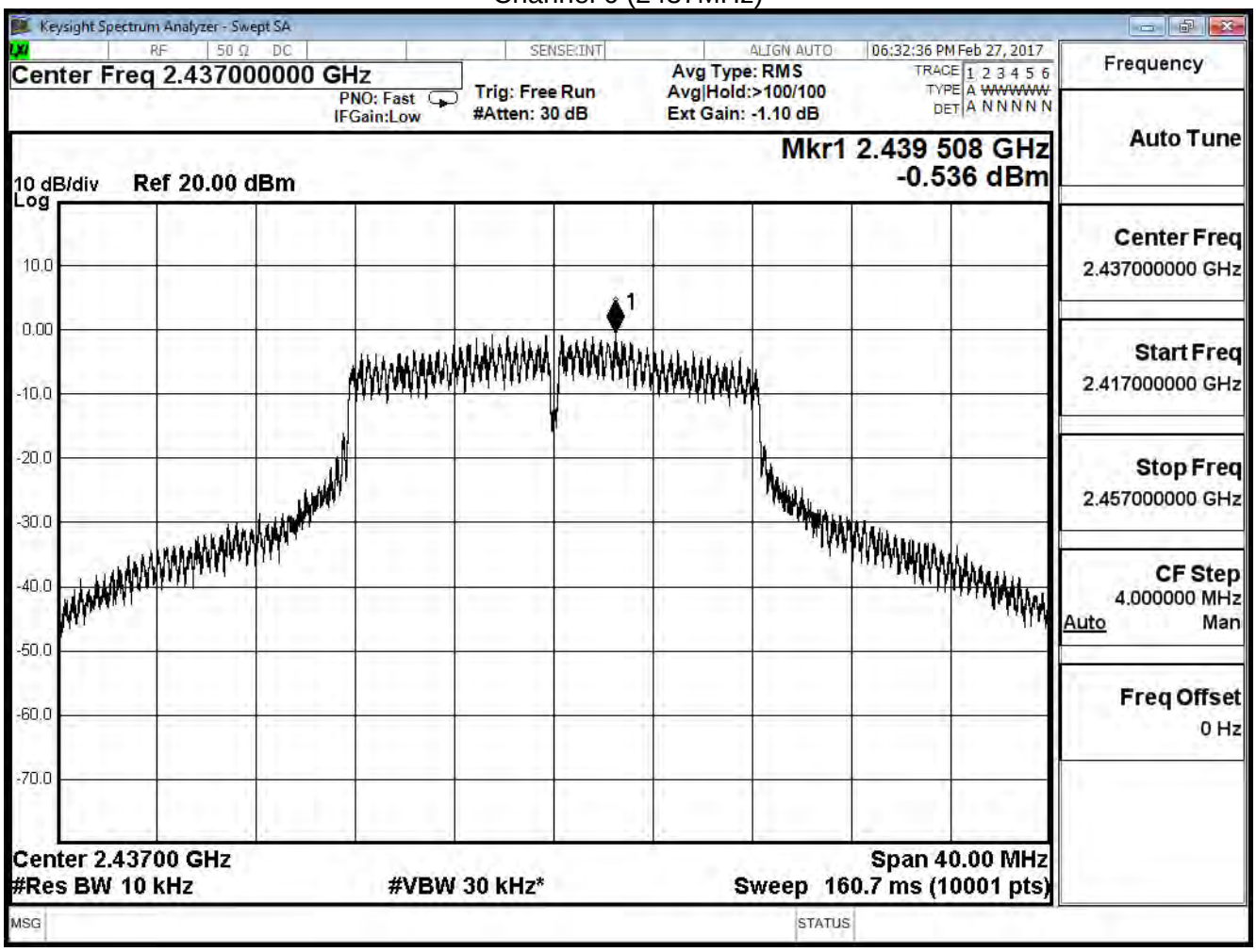
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

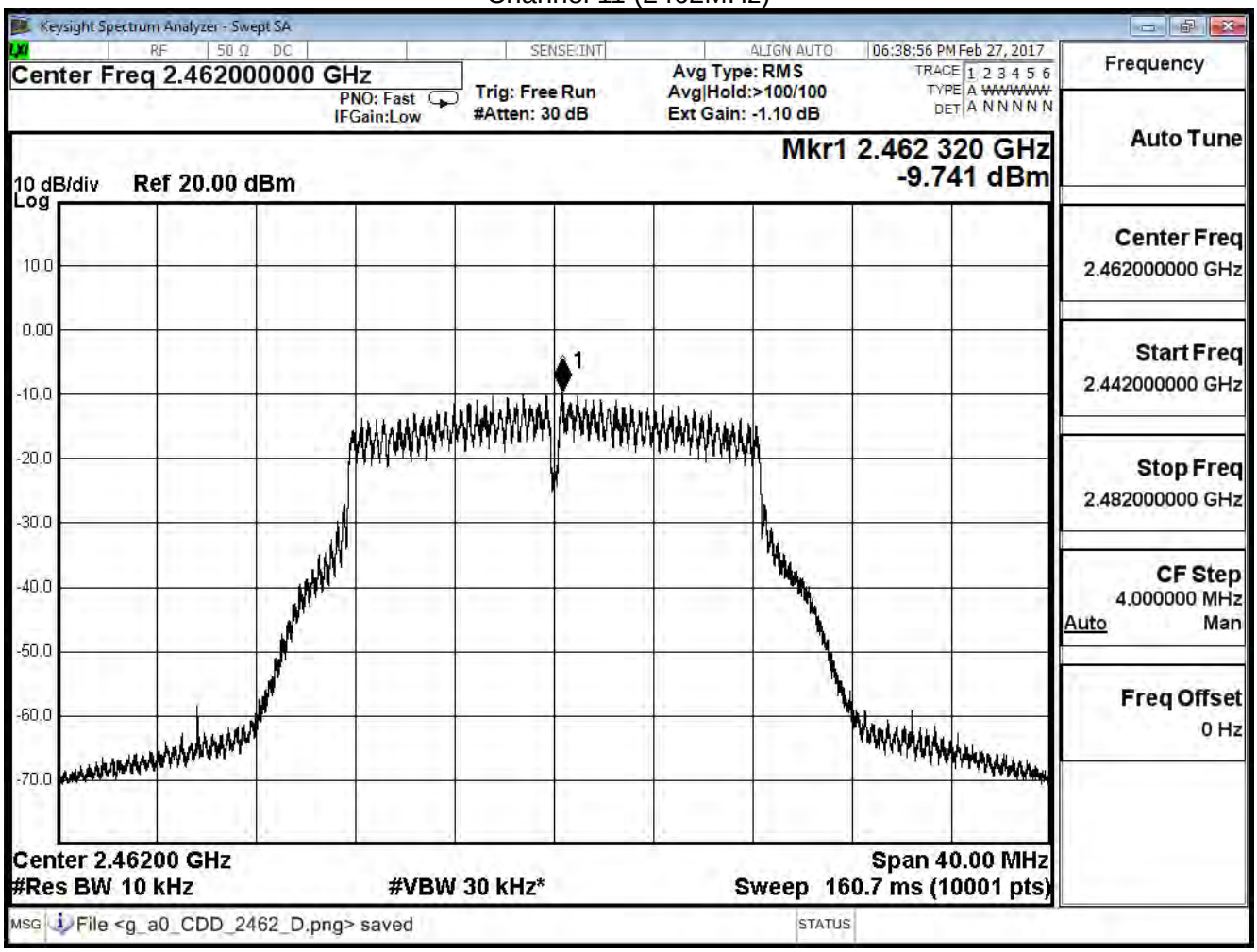
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



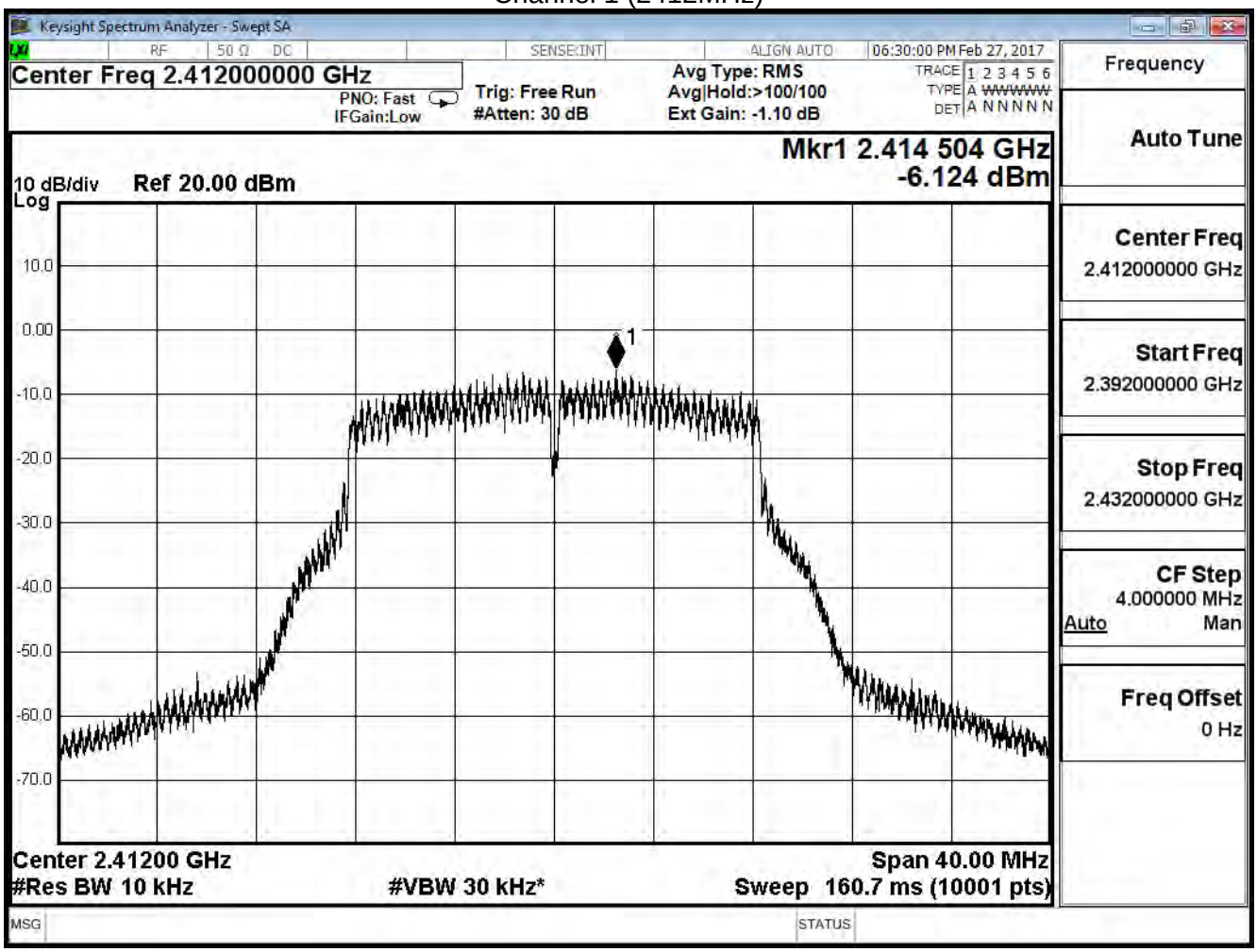
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11g (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-6.124	≦7.90	Pass
6	2437	-0.640	≦7.90	Pass
11	2462	-9.888	≦7.90	Pass

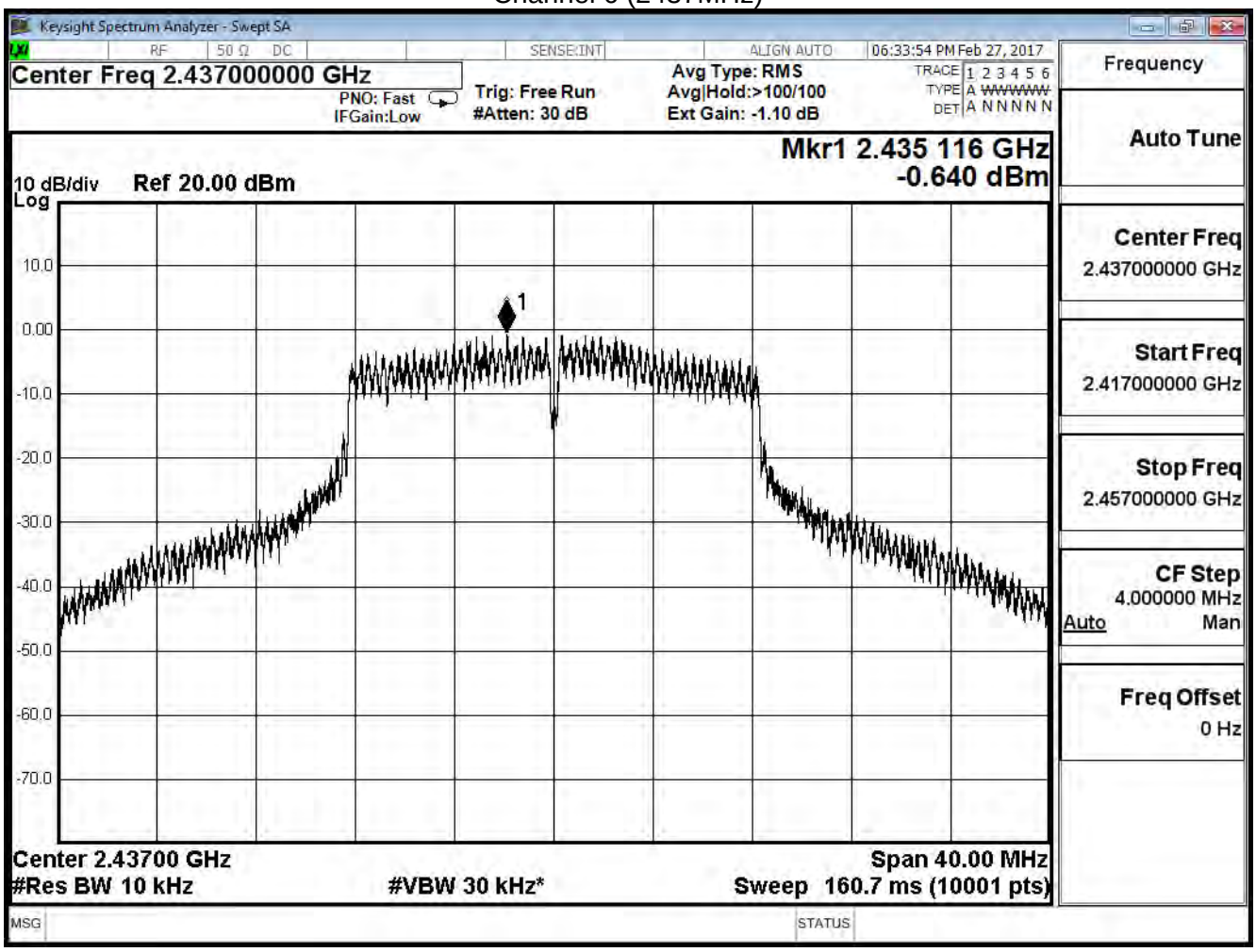
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

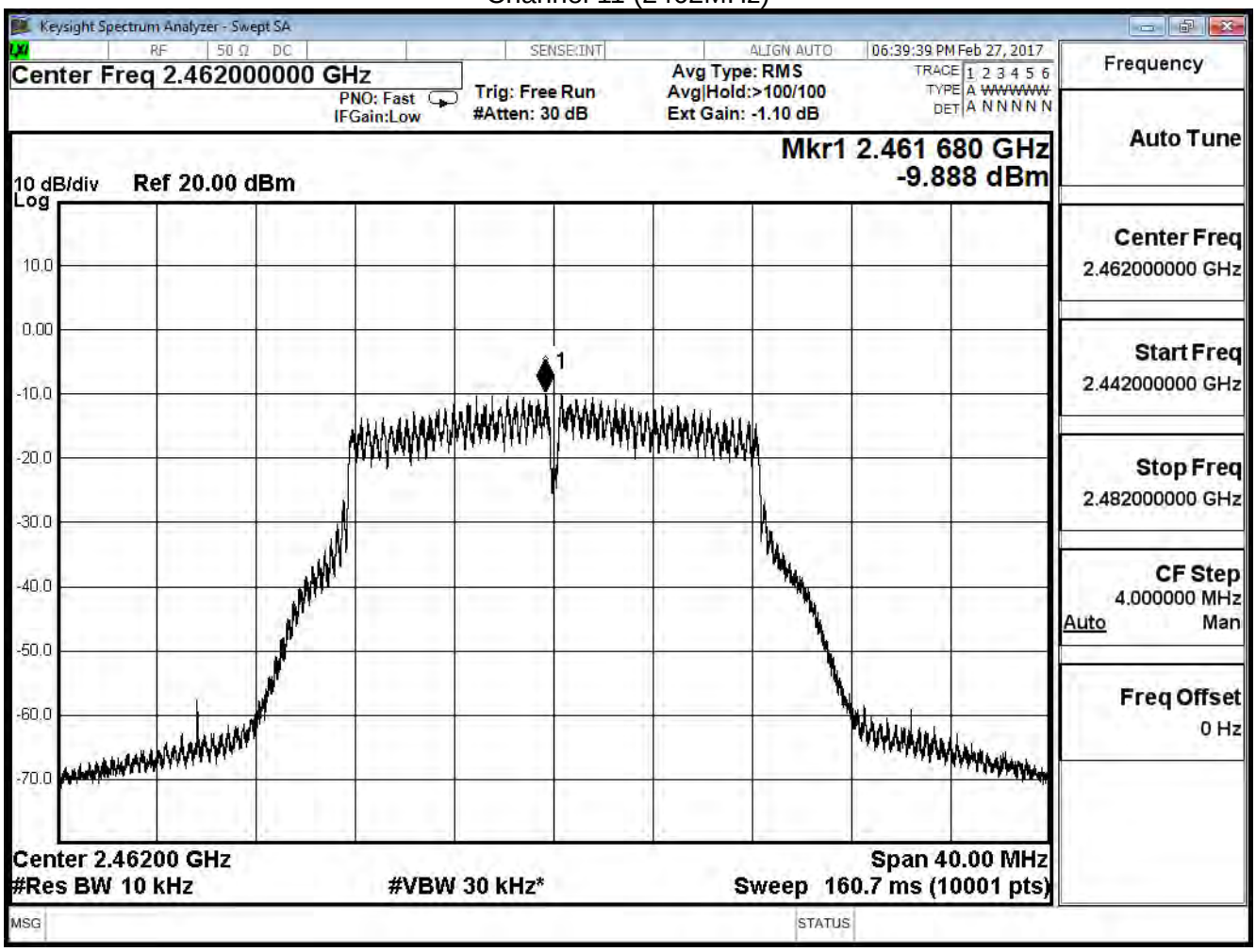
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 b/g)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11g (ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-1.630	≦7.90	Pass
6	2437	4.240	≦7.90	Pass
11	2462	-5.104	≦7.90	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

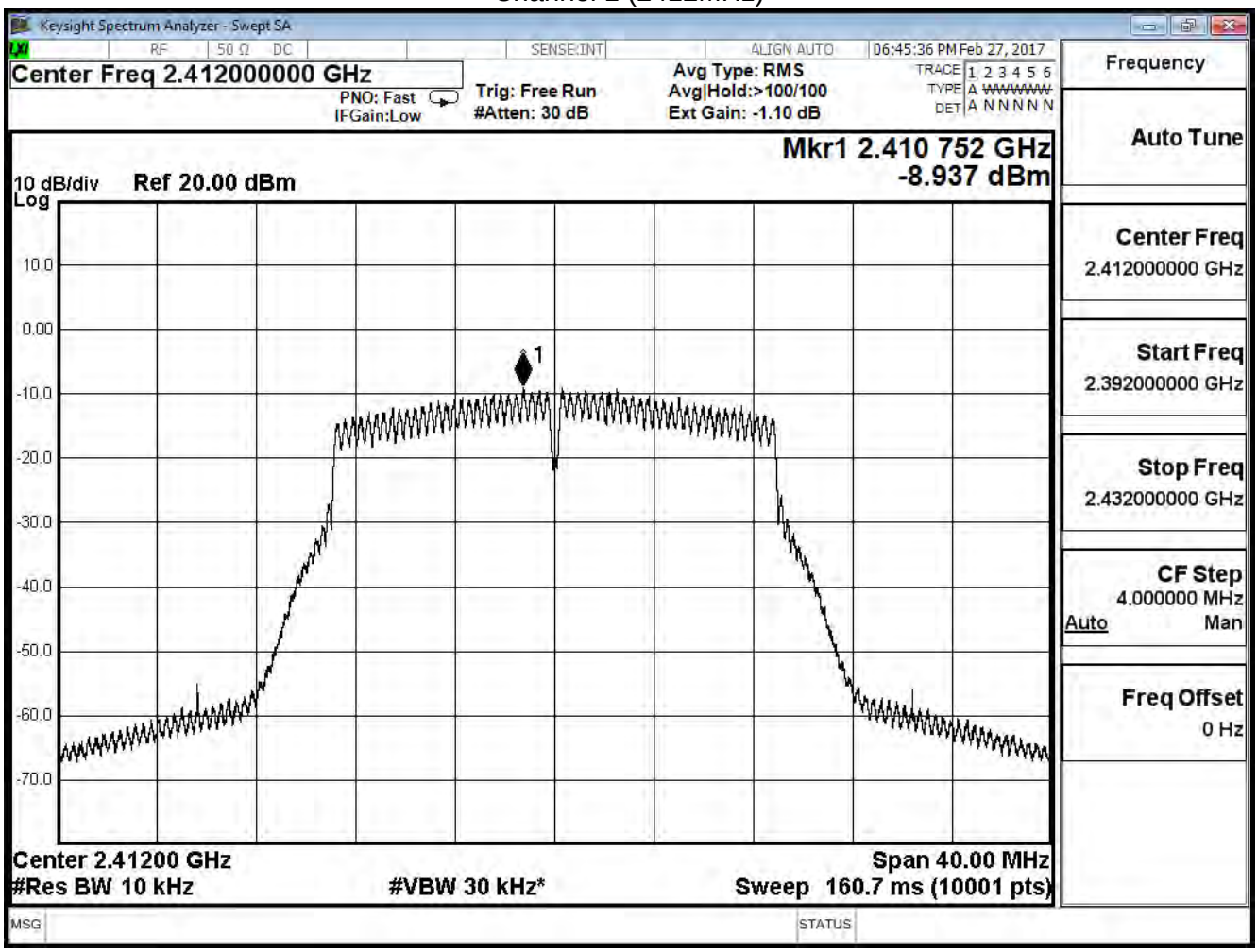
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-8.937	≦7.90	Pass
6	2437	-2.375	≦7.90	Pass
11	2462	-11.353	≦7.90	Pass

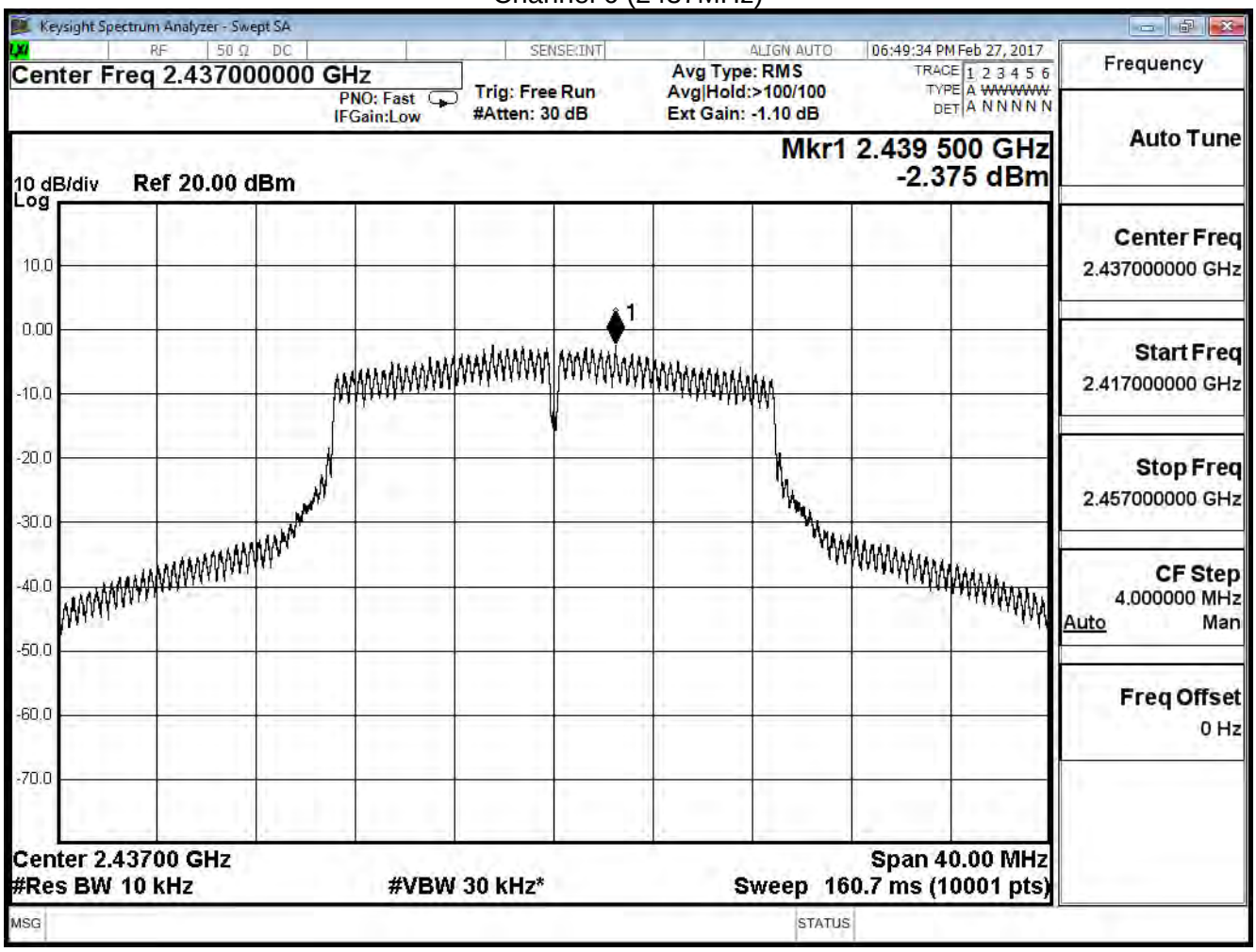
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

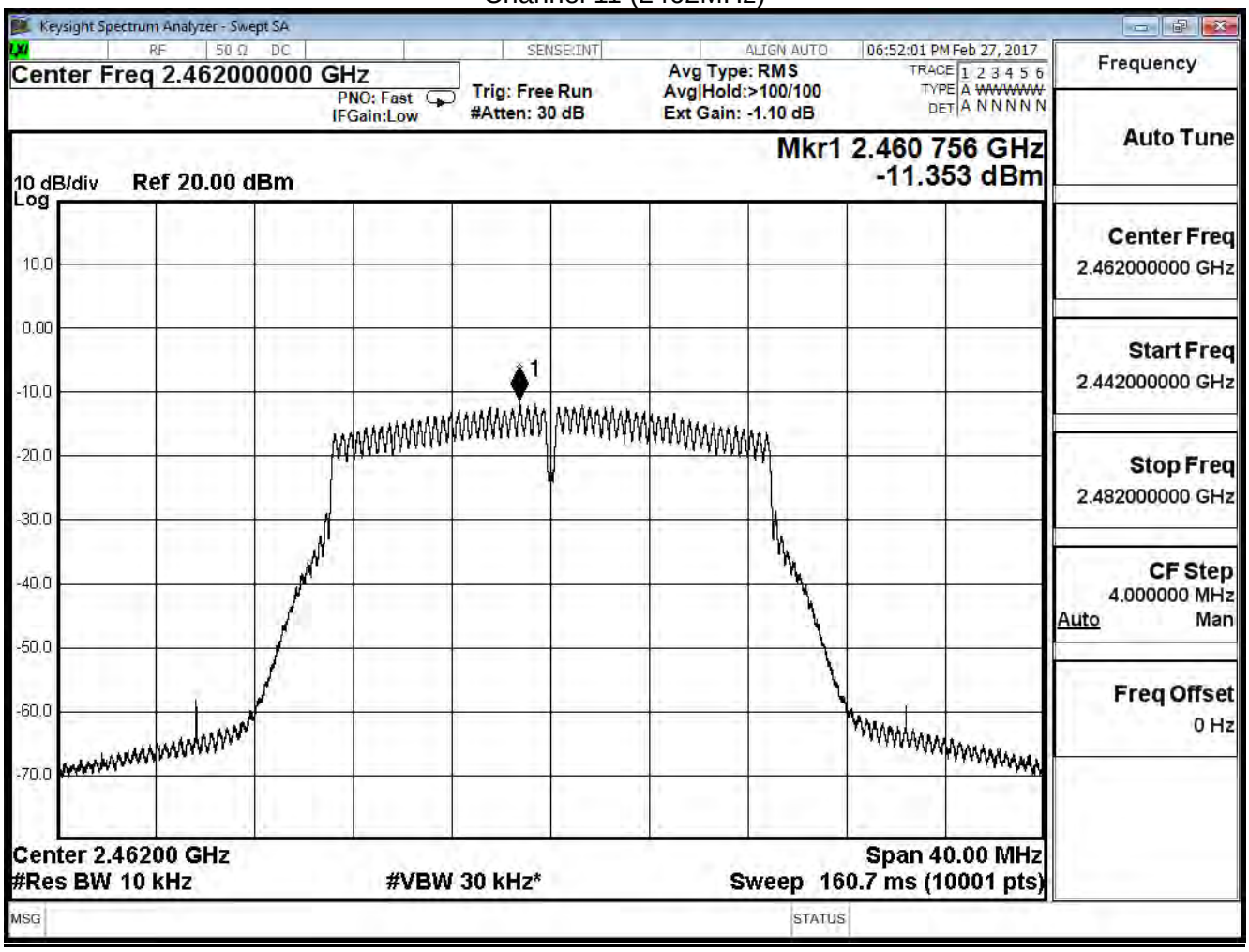
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



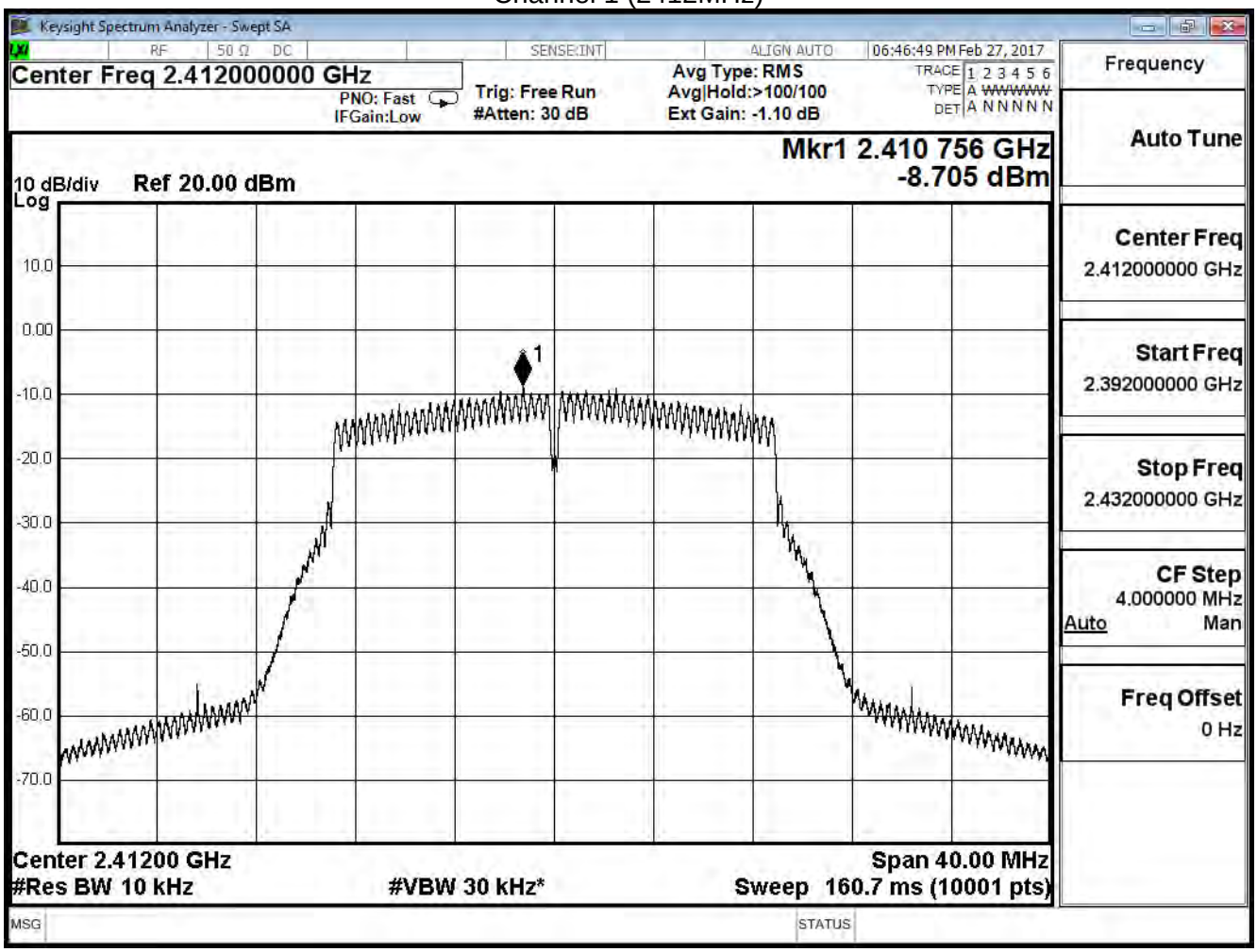
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-8.705	≦7.90	Pass
6	2437	-2.514	≦7.90	Pass
11	2462	-11.601	≦7.90	Pass

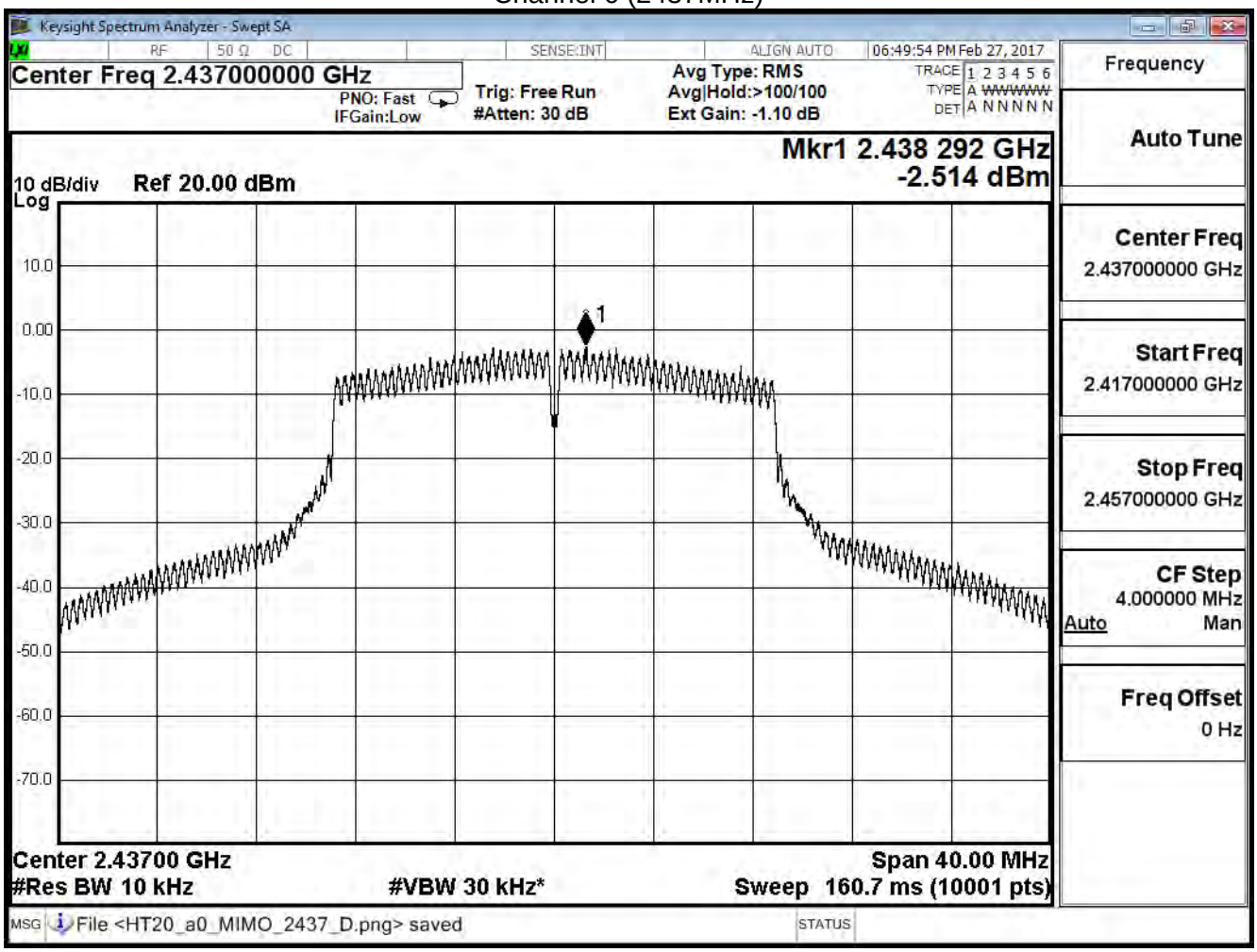
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

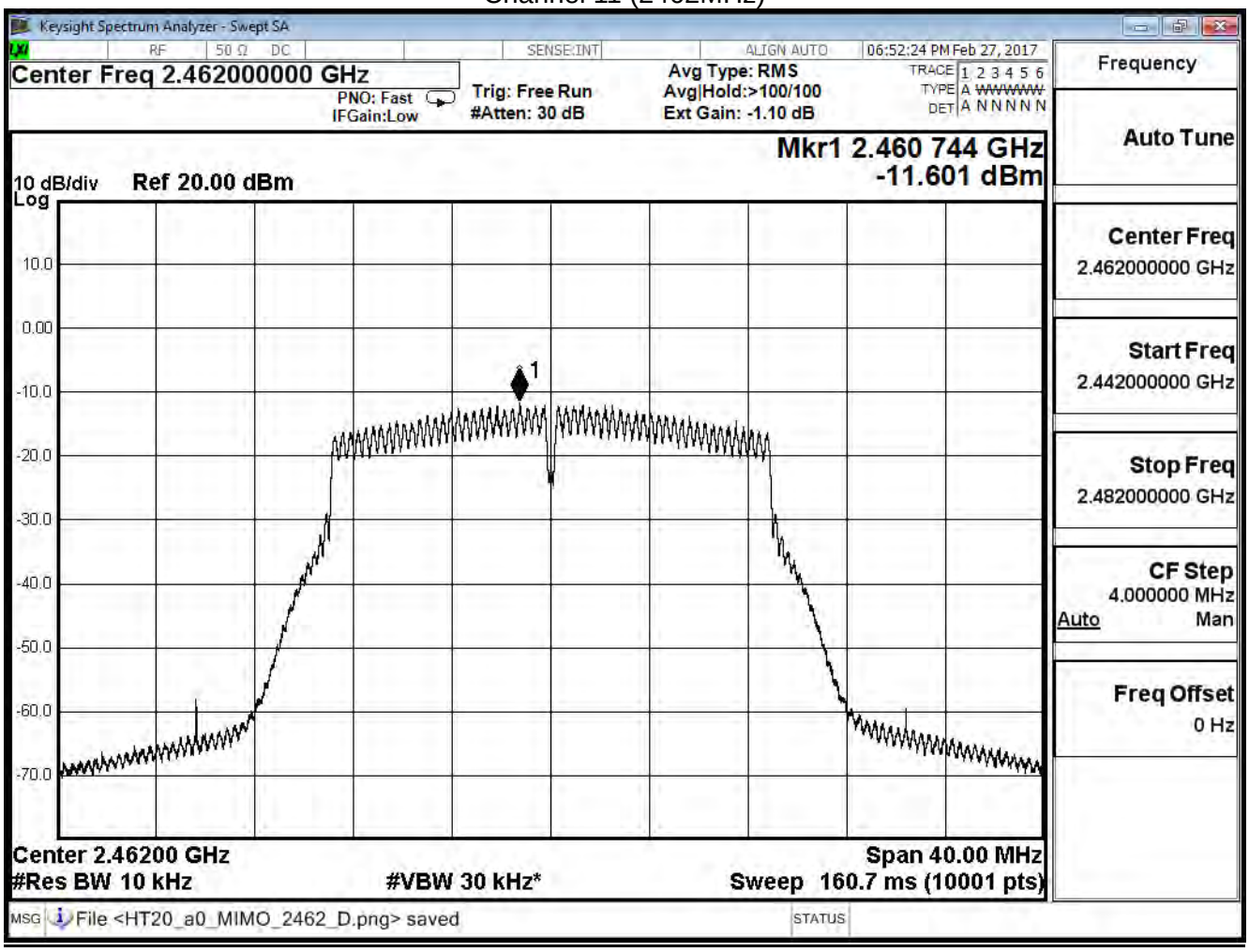
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



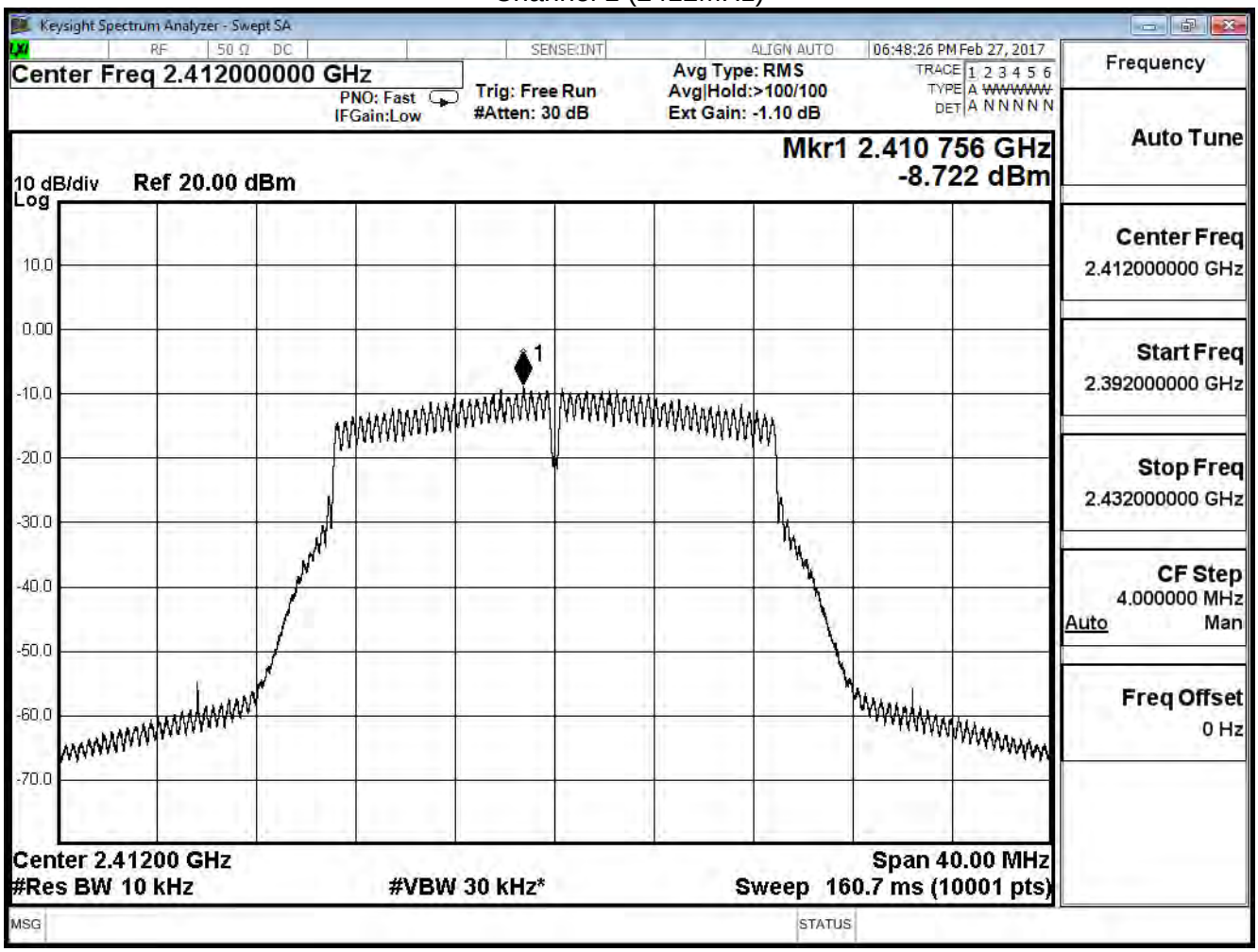
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-8.722	≦7.90	Pass
6	2437	-1.888	≦7.90	Pass
11	2462	-11.105	≦7.90	Pass

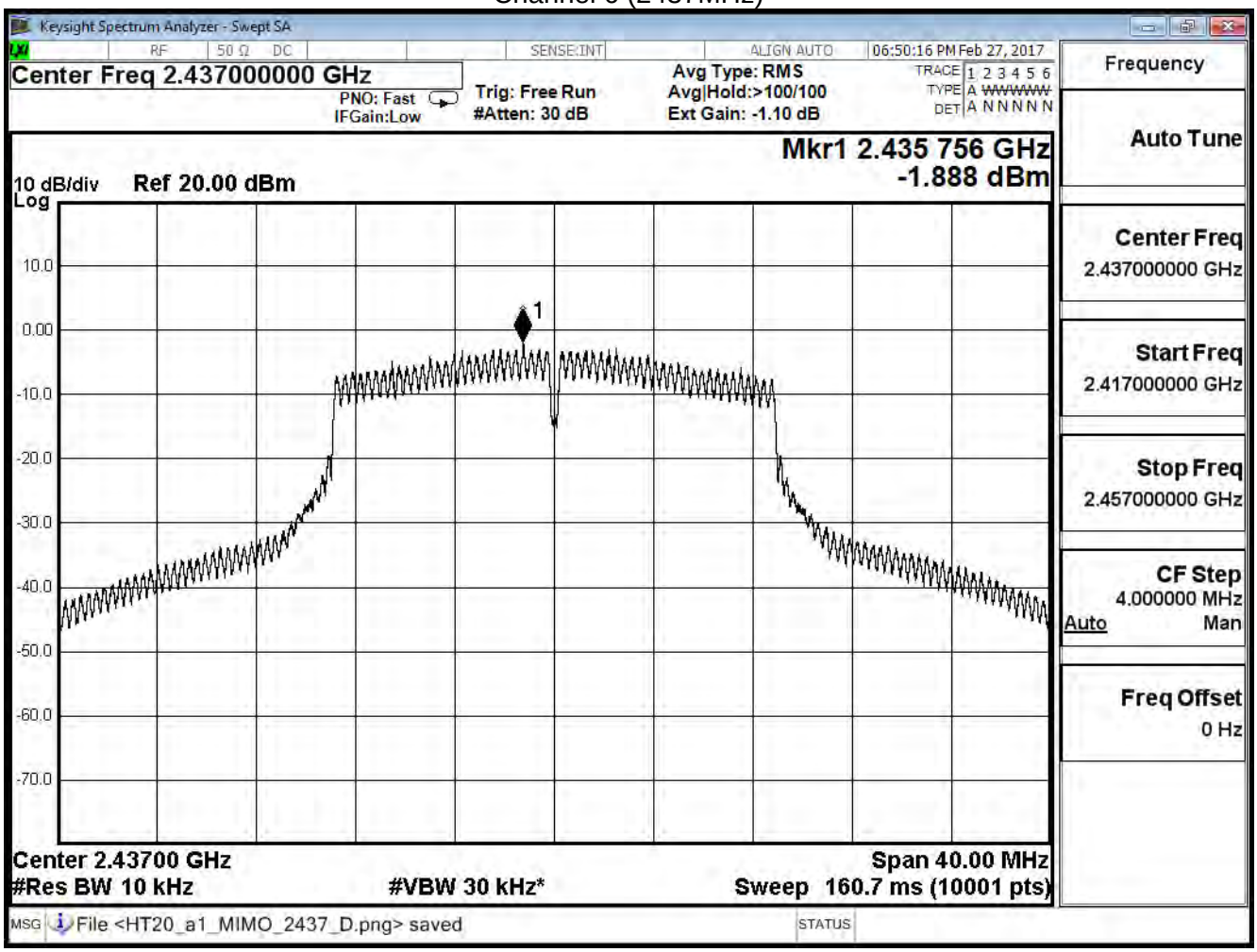
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

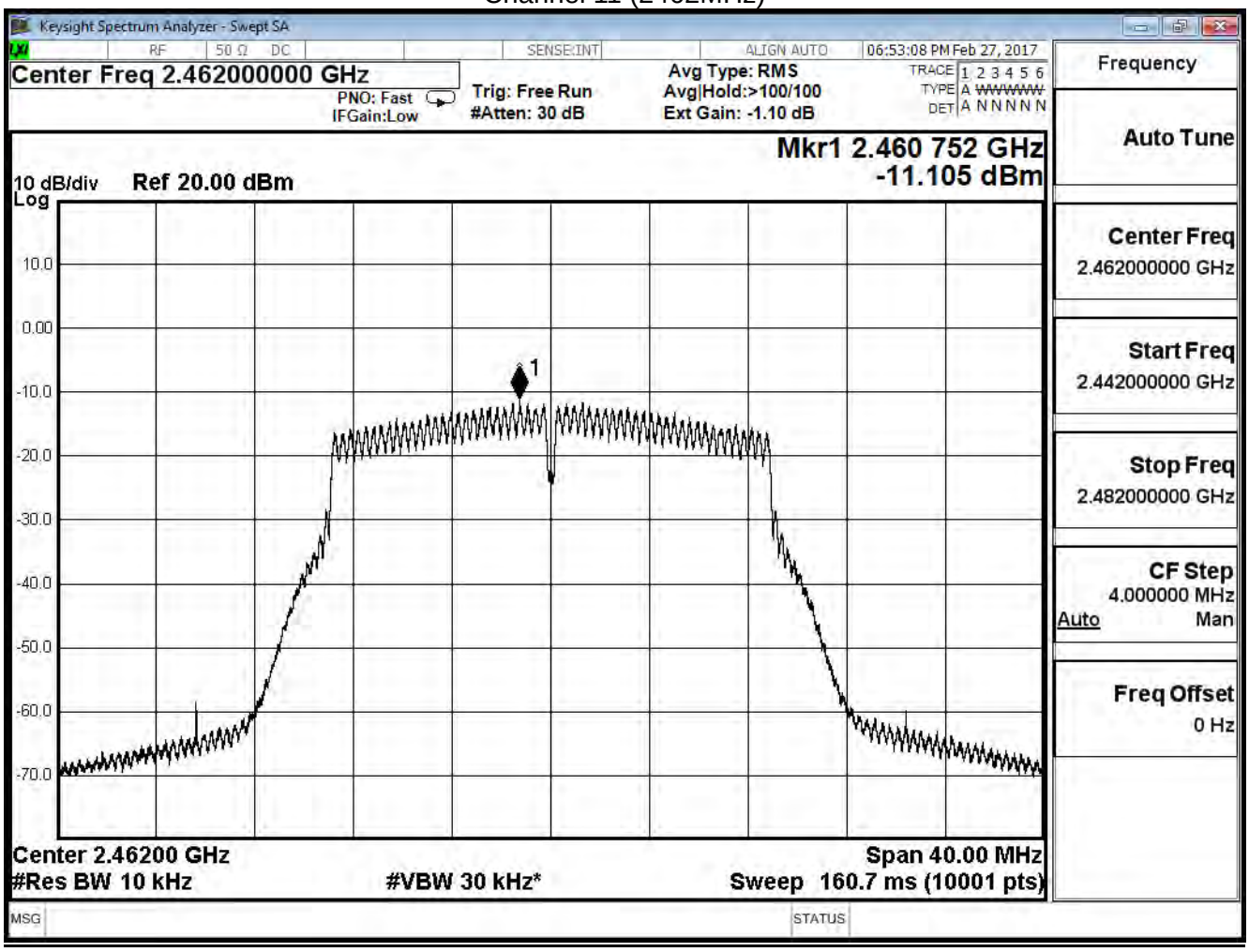
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-4.016	≦7.90	Pass
6	2437	2.521	≦7.90	Pass
11	2462	-6.577	≦7.90	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

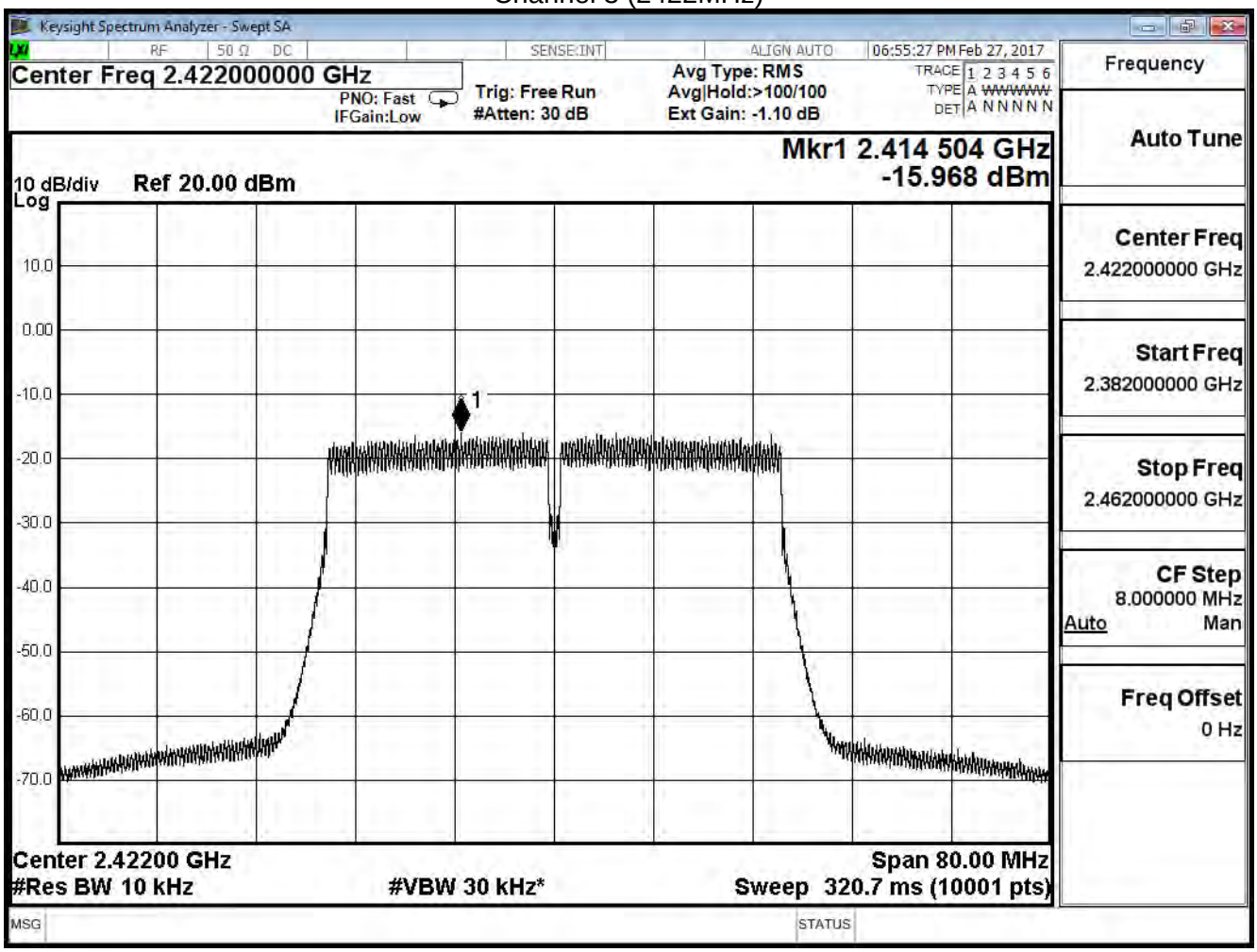
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-15.968	≦7.90	Pass
6	2437	-15.207	≦7.90	Pass
9	2452	-19.168	≦7.90	Pass

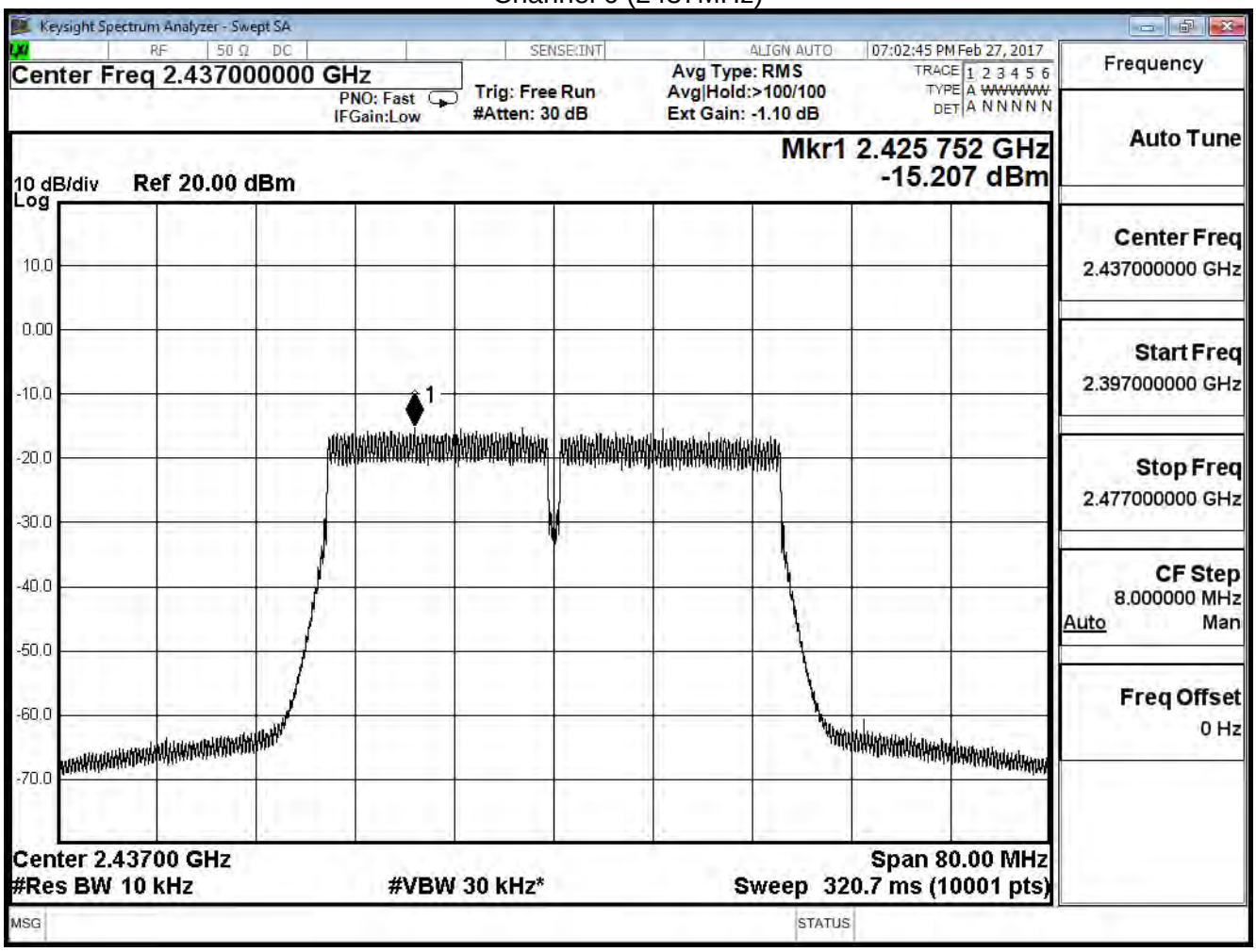
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

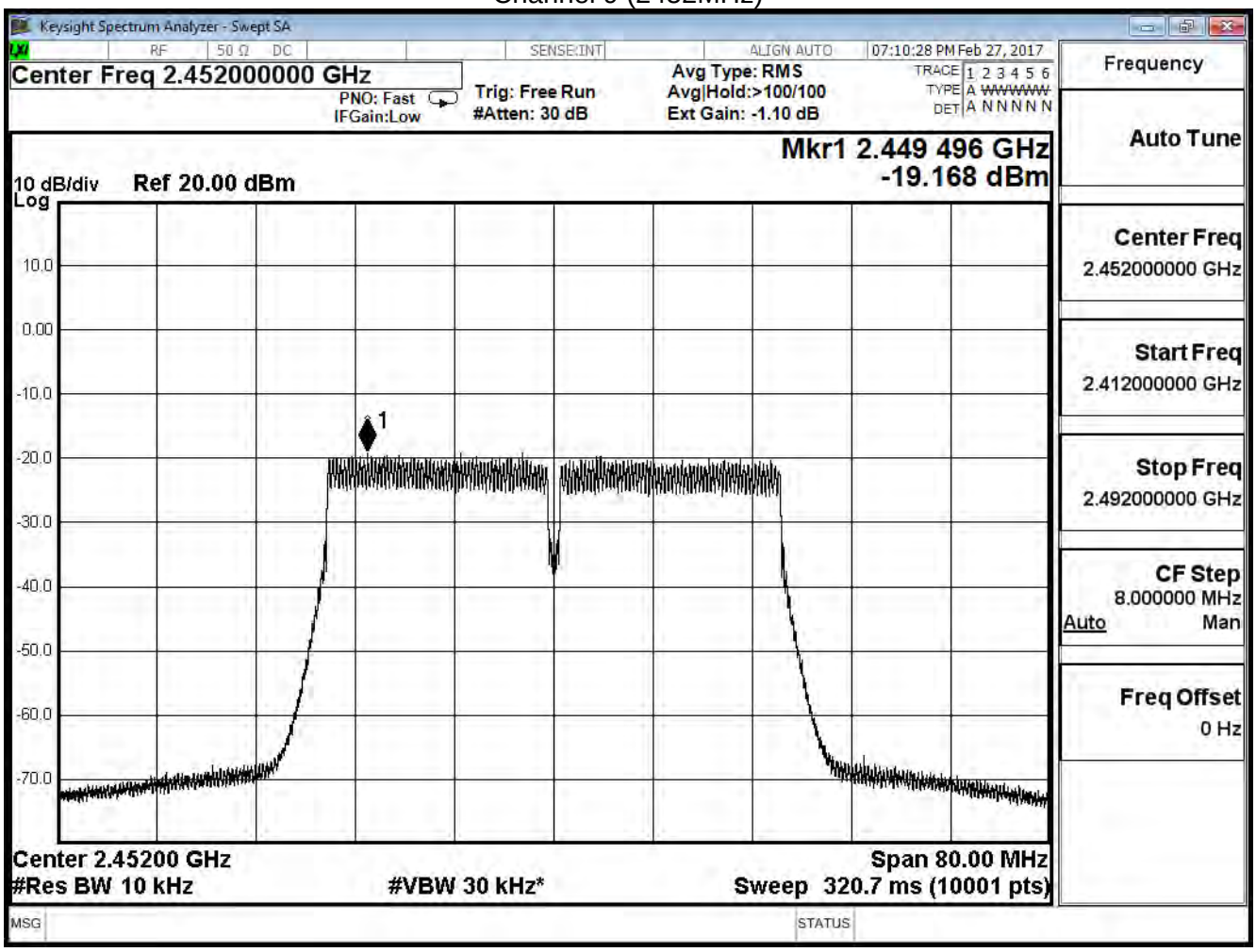
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



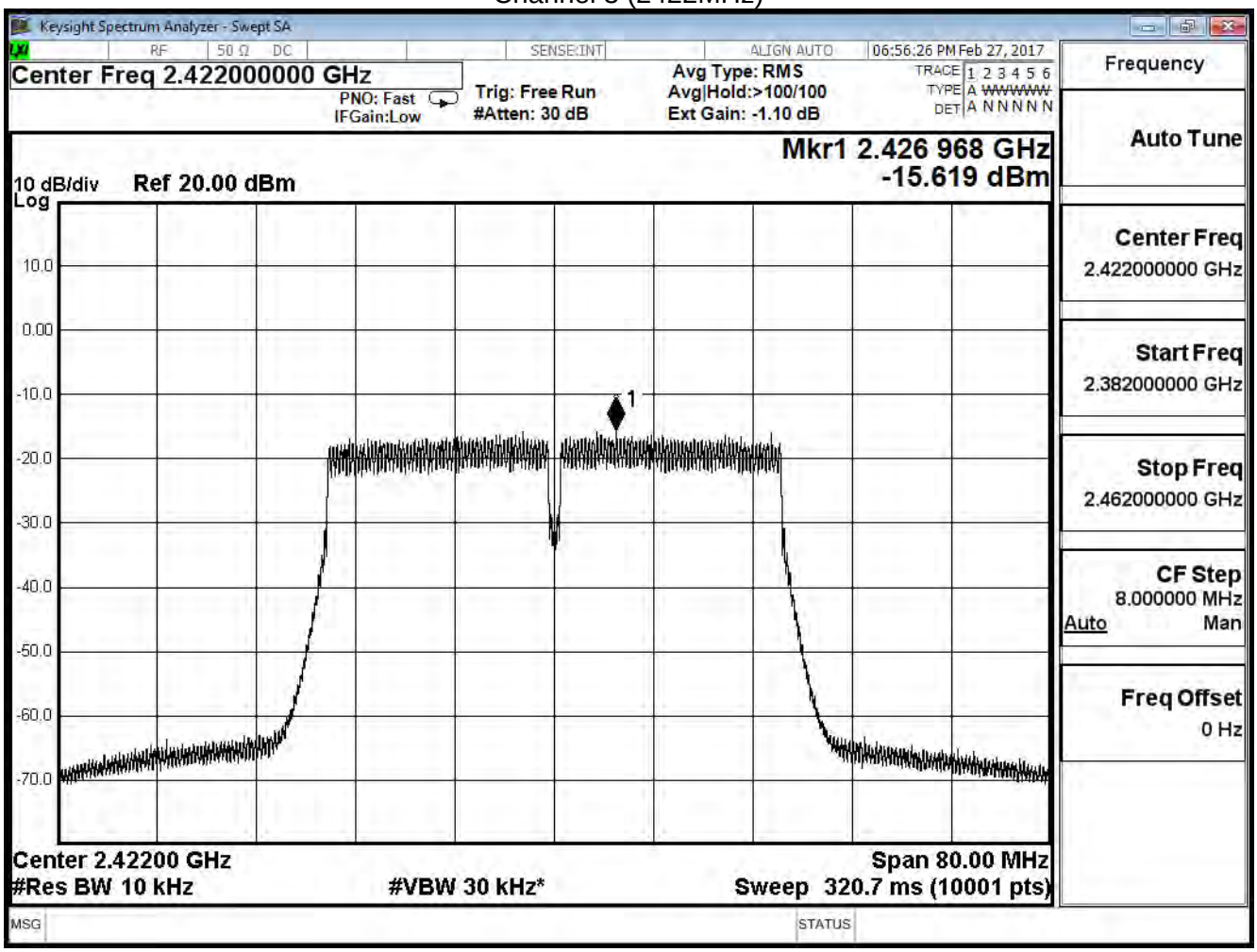
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-15.619	≦7.90	Pass
6	2437	-15.184	≦7.90	Pass
9	2452	-19.491	≦7.90	Pass

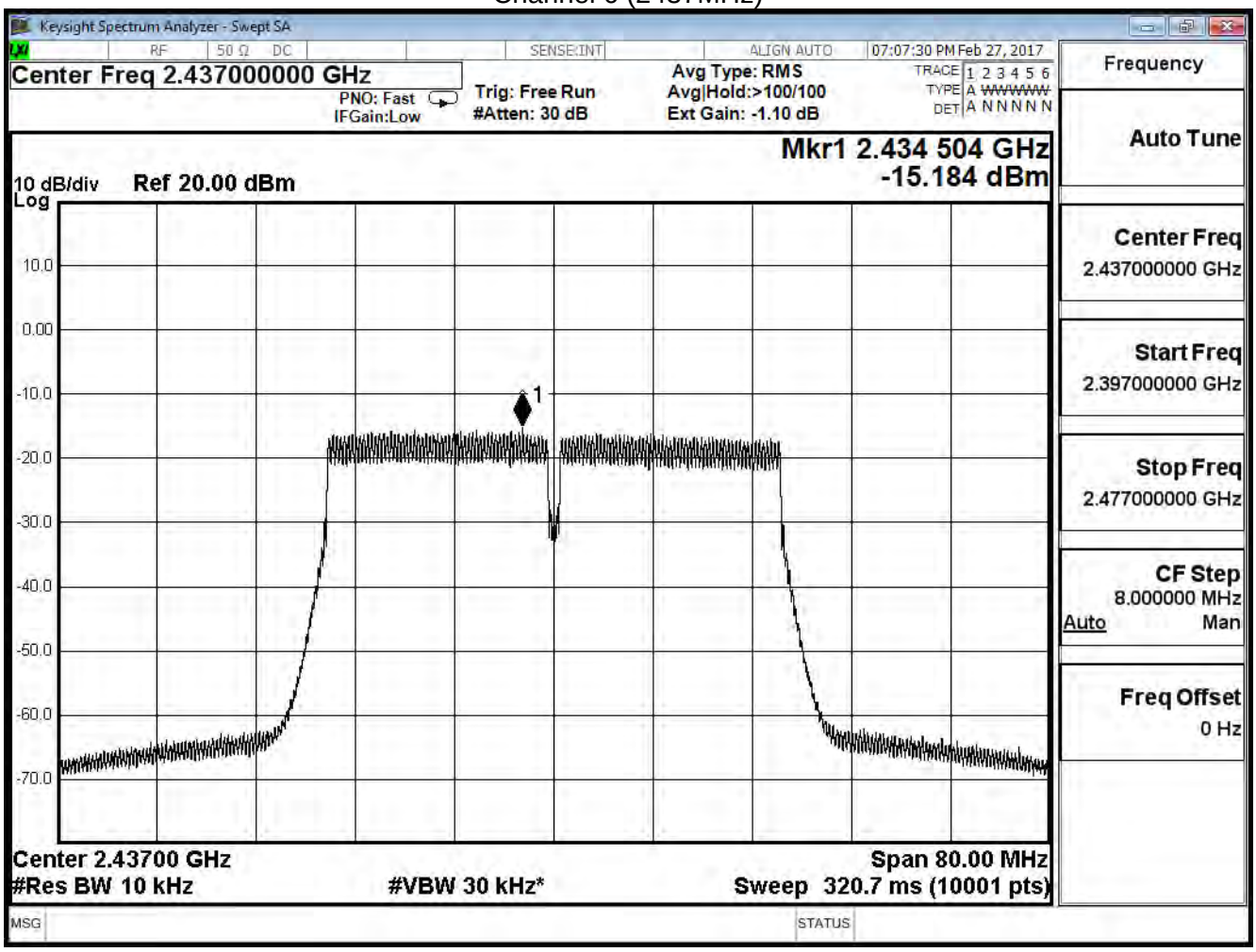
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

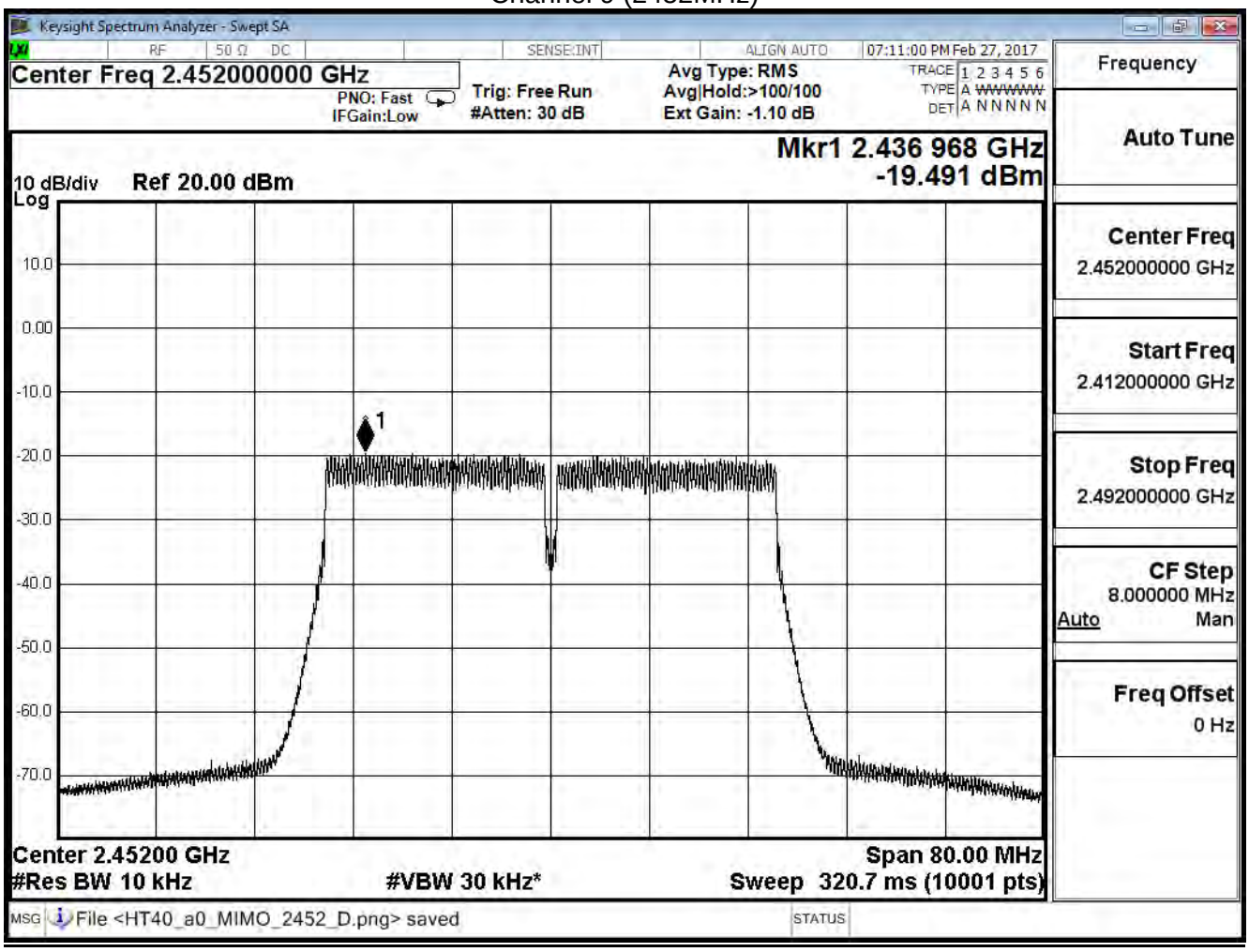
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



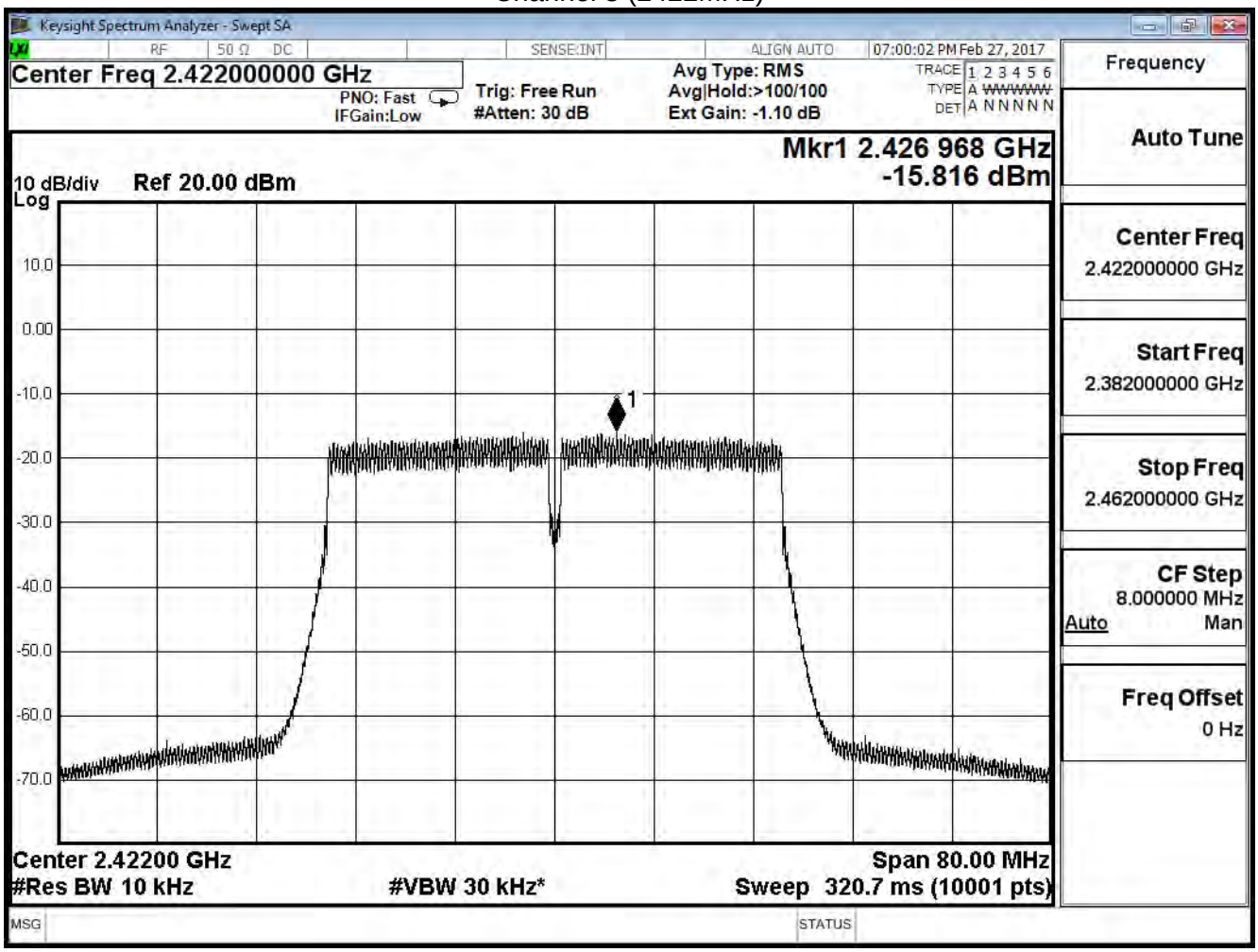
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-15.816	≦7.90	Pass
6	2437	-14.927	≦7.90	Pass
9	2452	-19.421	≦7.90	Pass

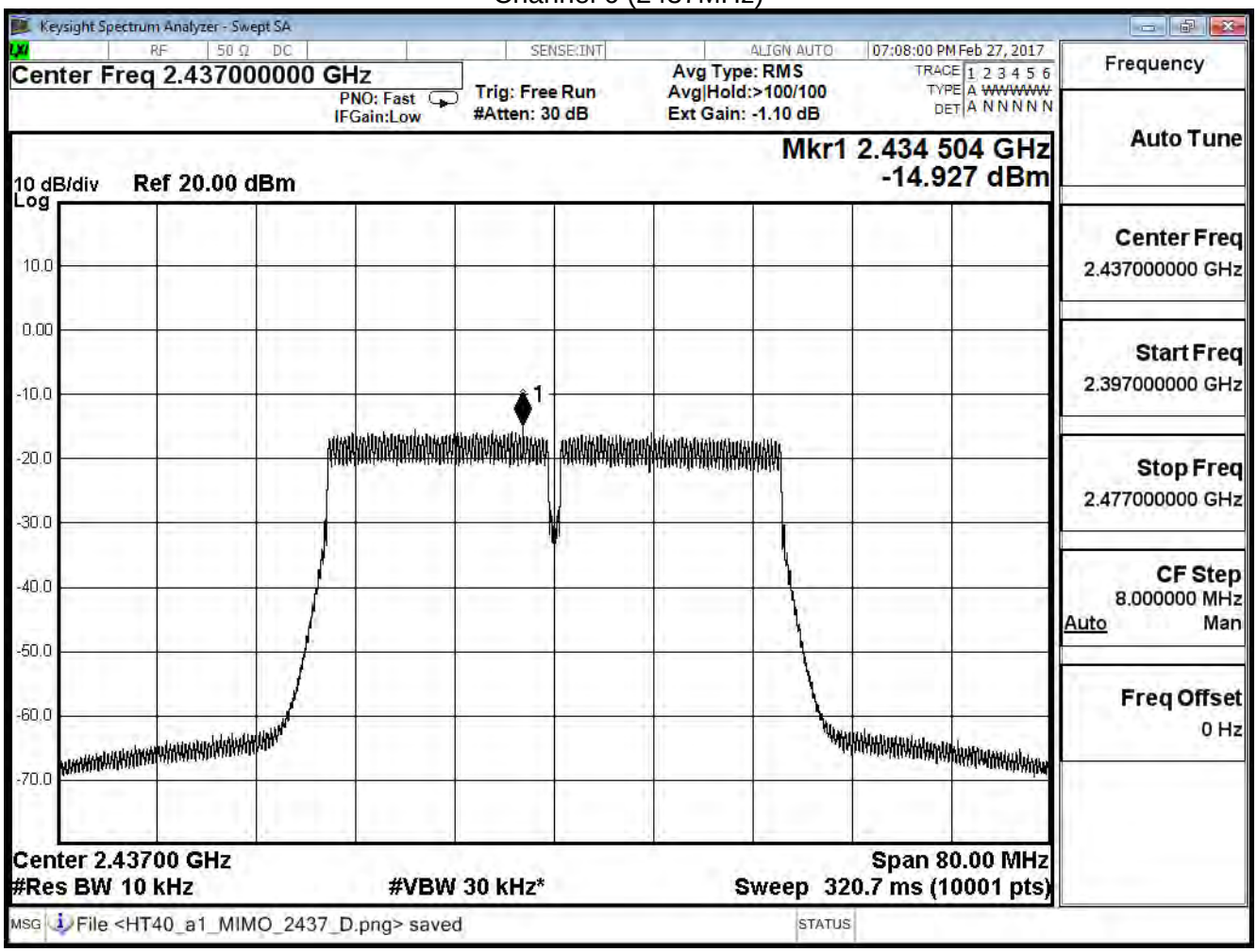
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

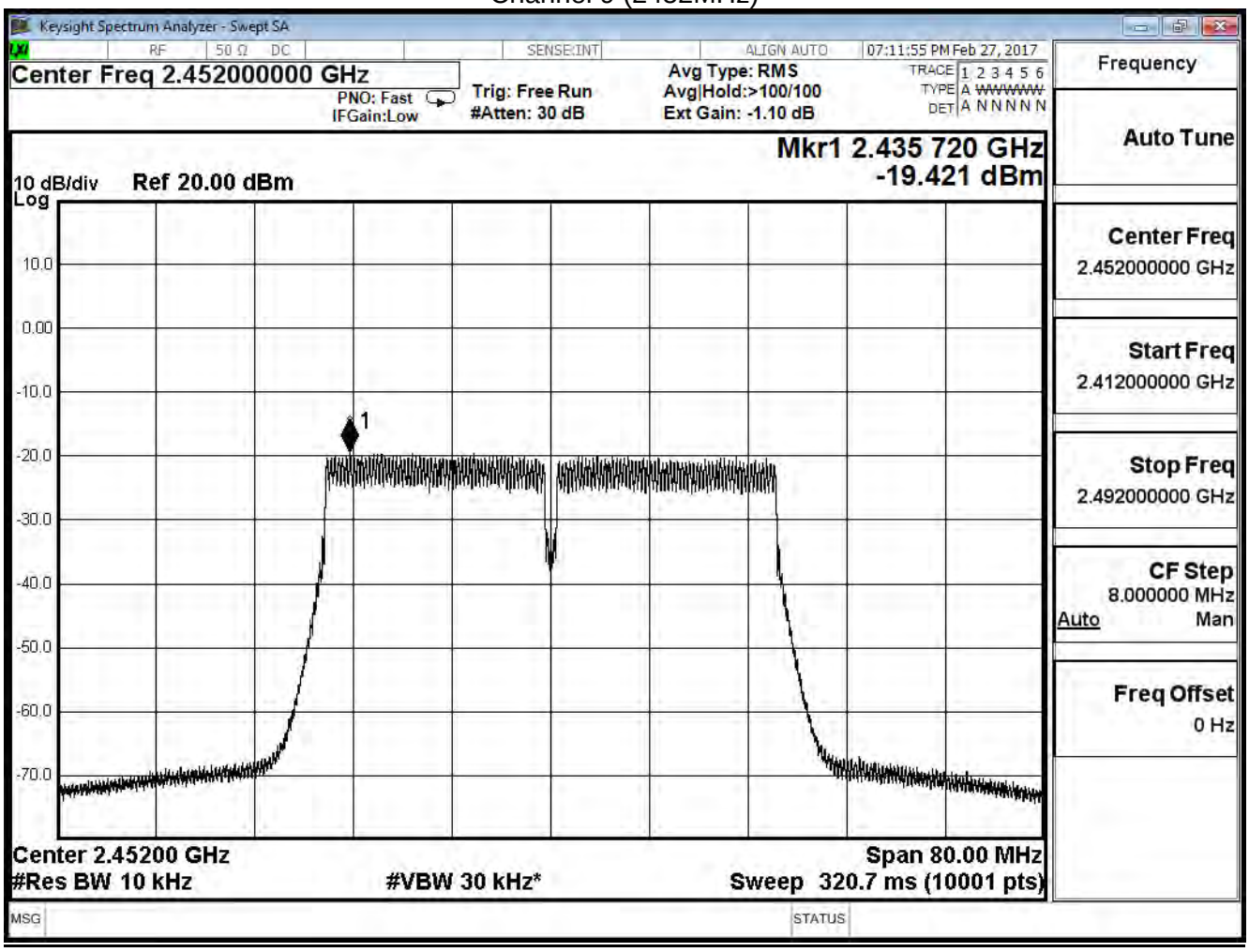
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-11.027	≦7.90	Pass
6	2437	-10.333	≦7.90	Pass
9	2452	-14.587	≦7.90	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

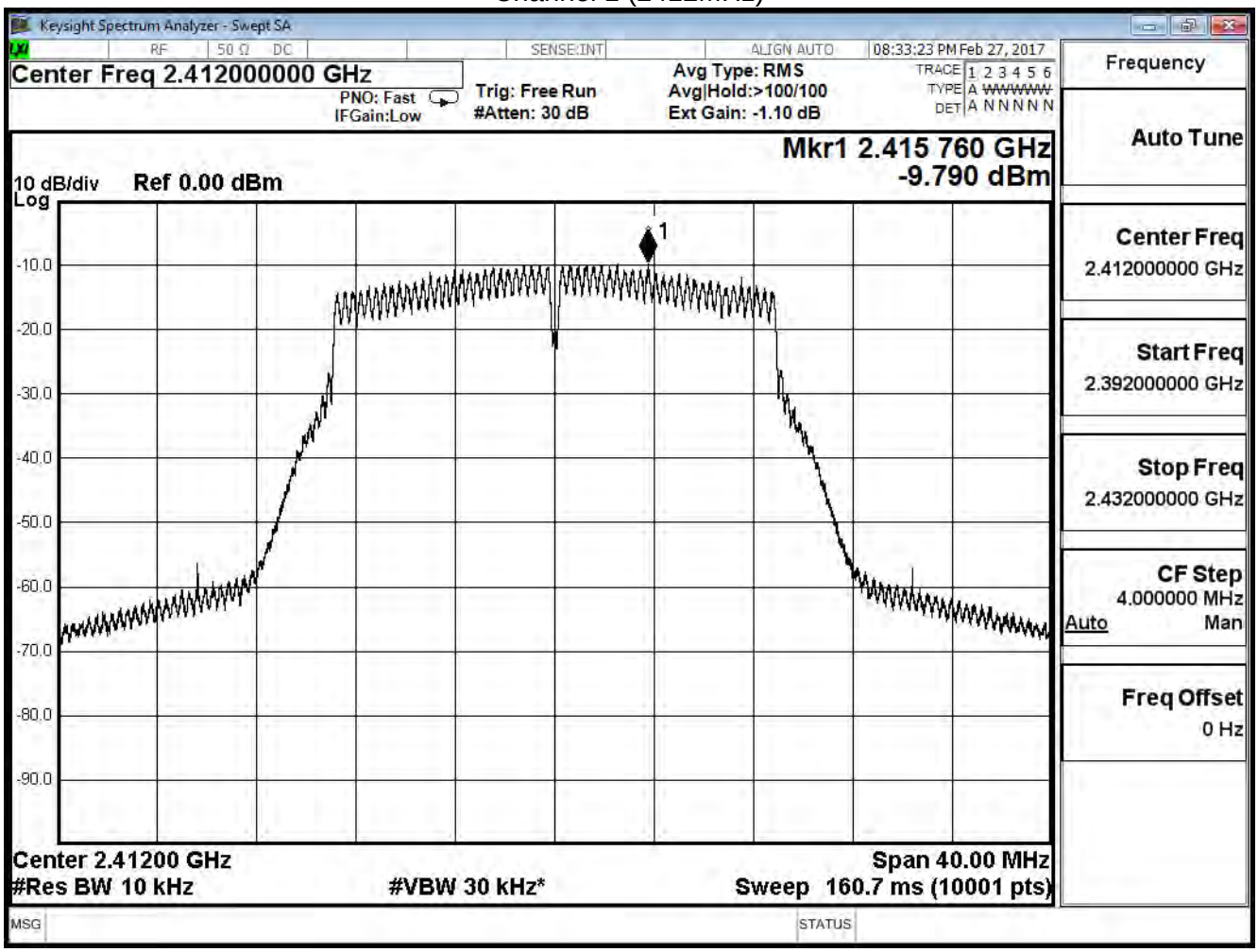
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-9.790	≦7.90	Pass
6	2437	-3.528	≦7.90	Pass
11	2462	-14.787	≦7.90	Pass

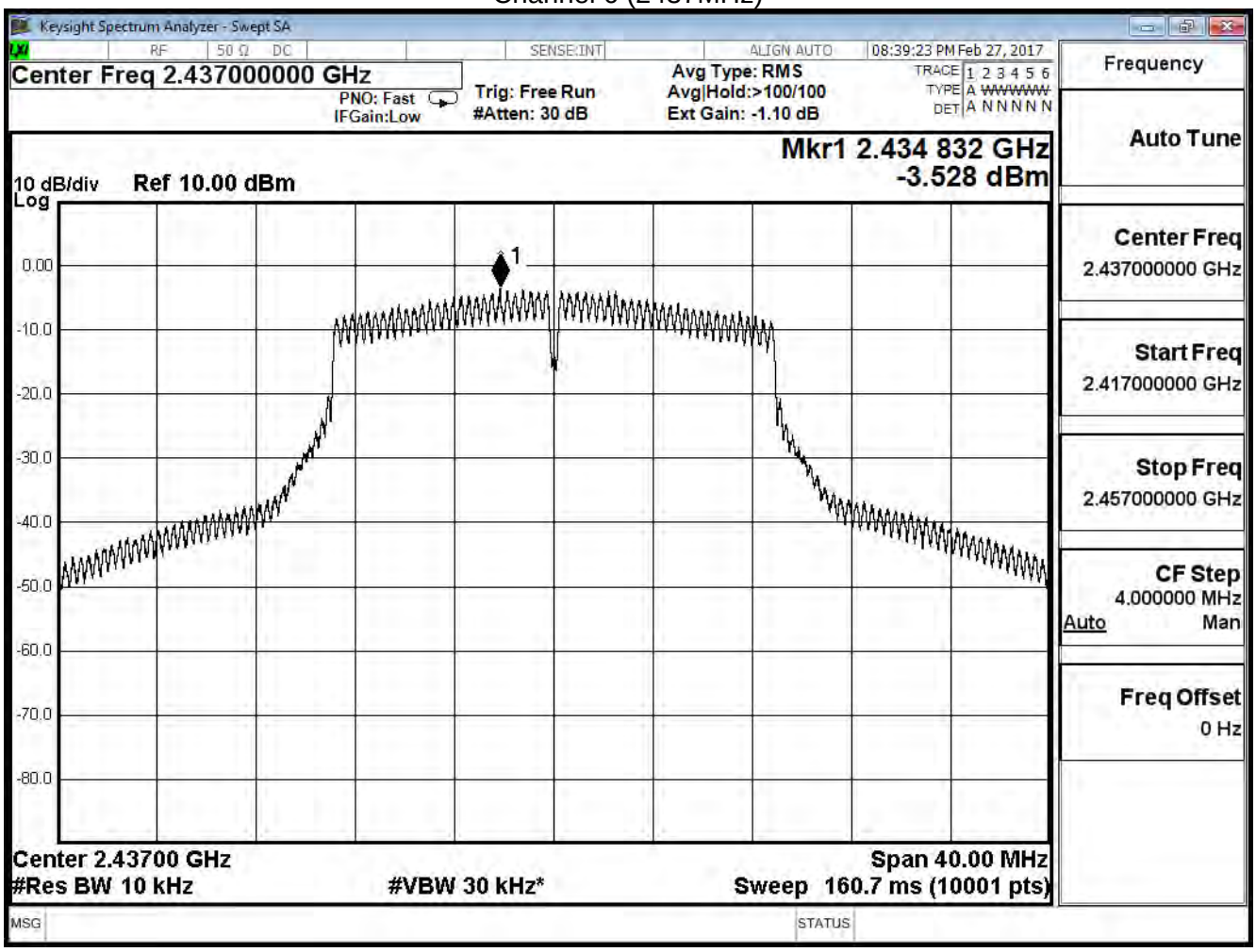
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

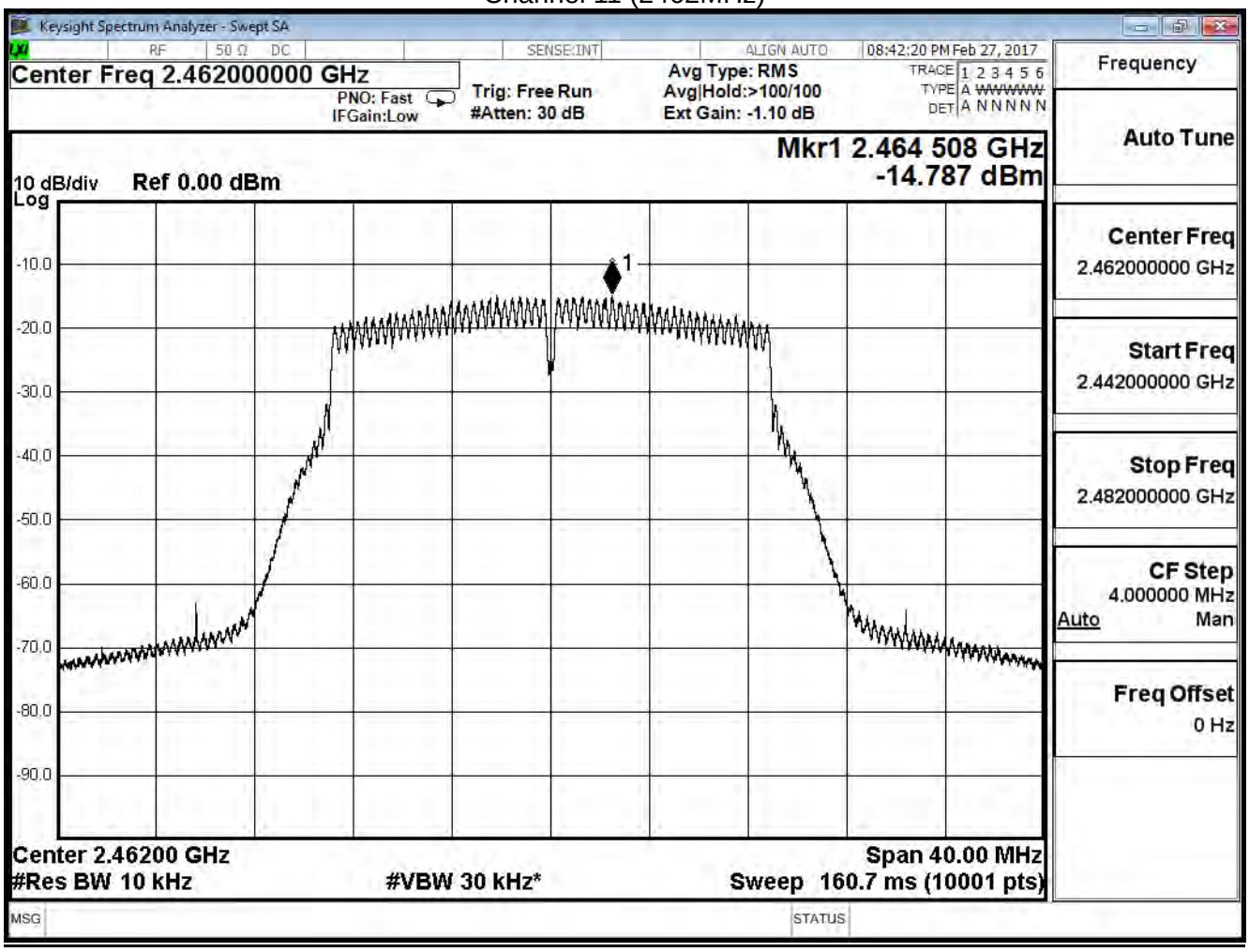
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



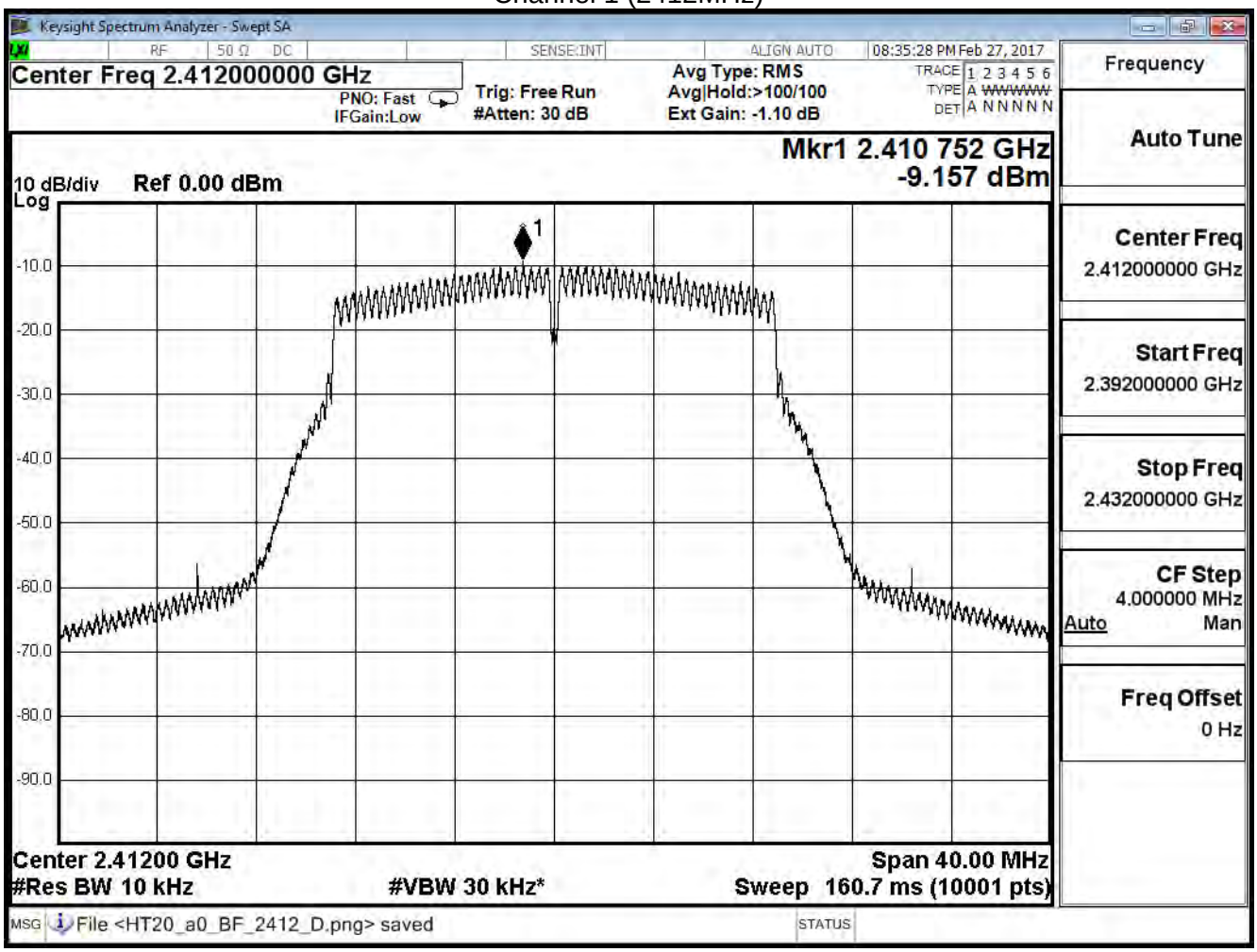
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-9.157	≦7.90	Pass
6	2437	-3.594	≦7.90	Pass
11	2462	-14.875	≦7.90	Pass

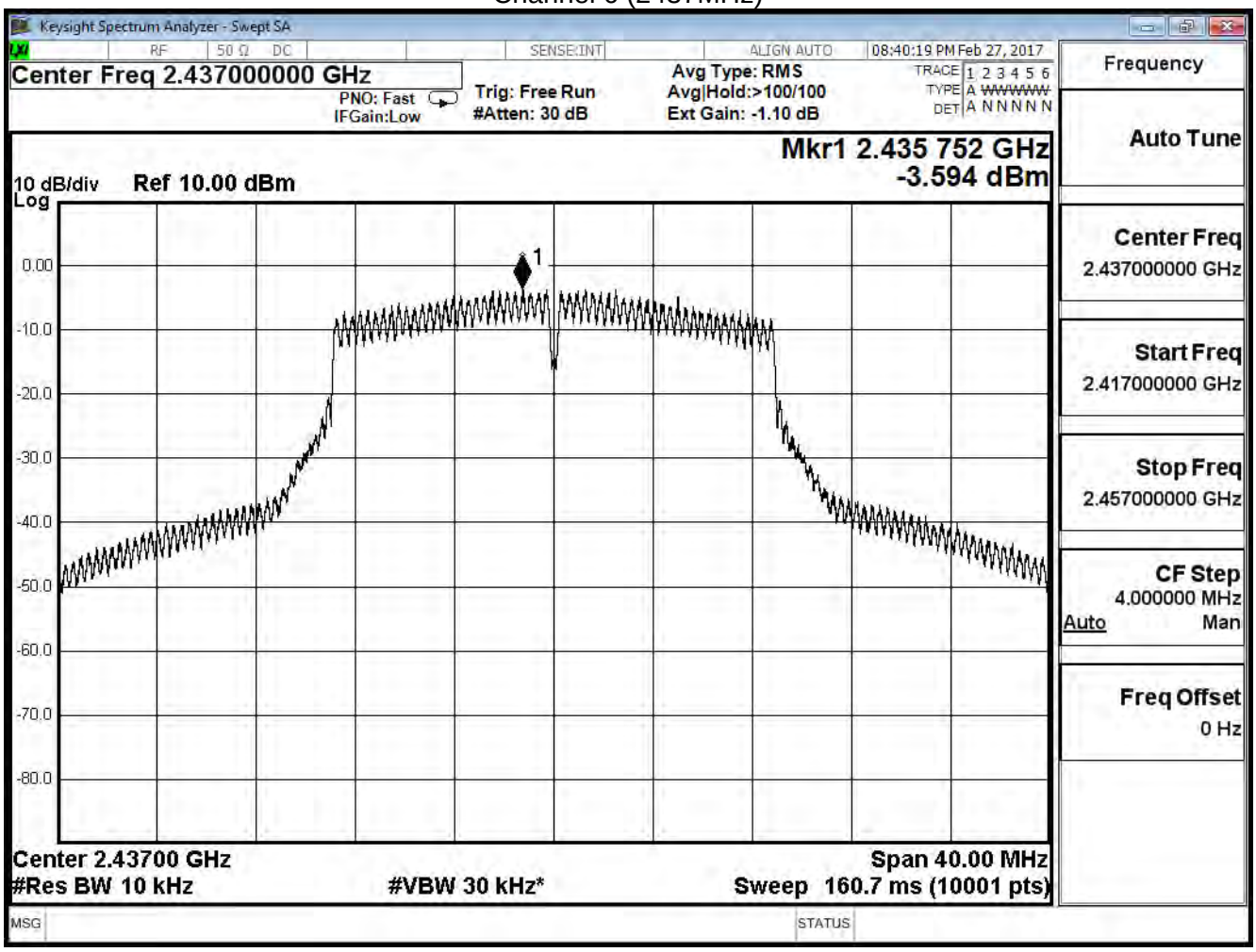
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

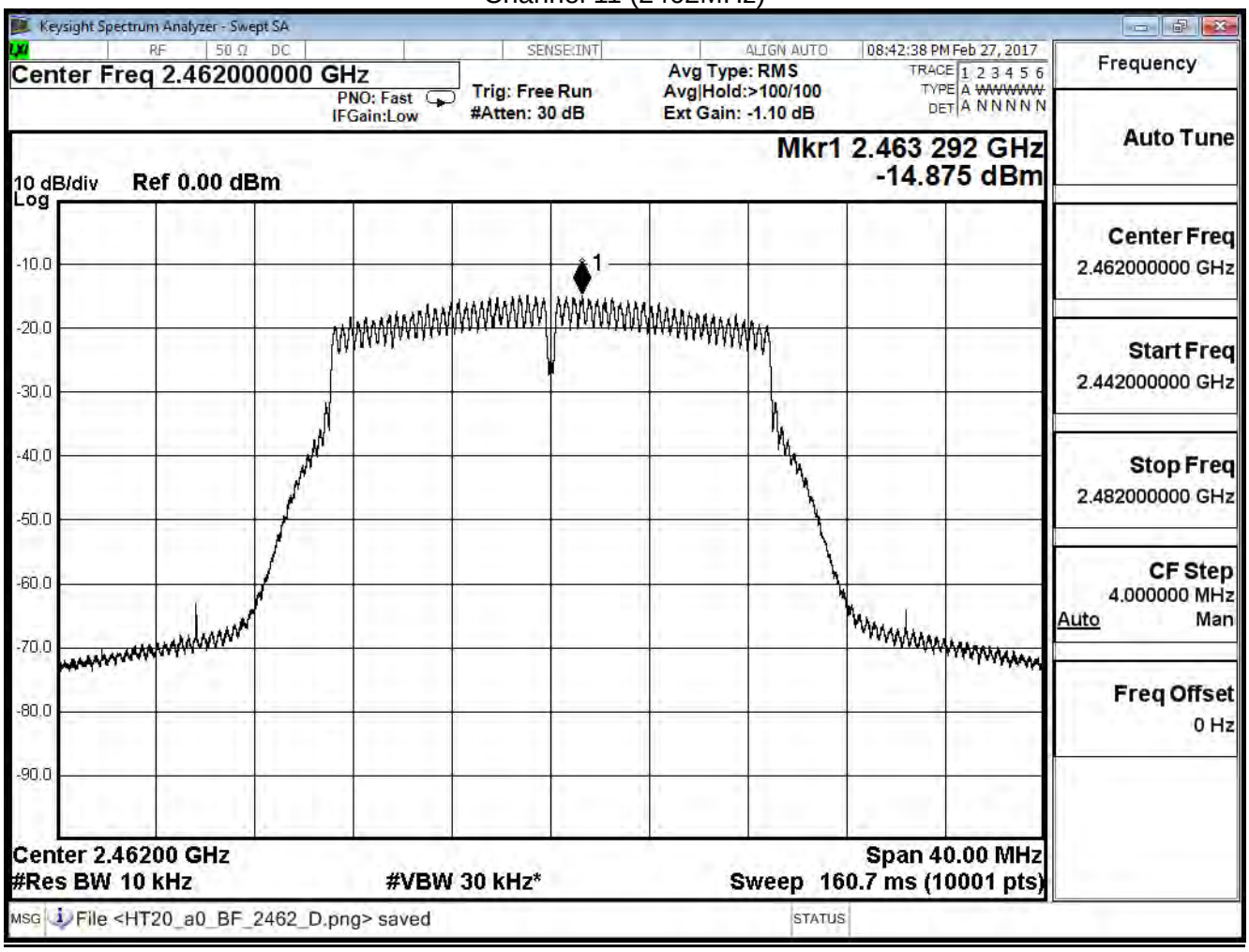
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



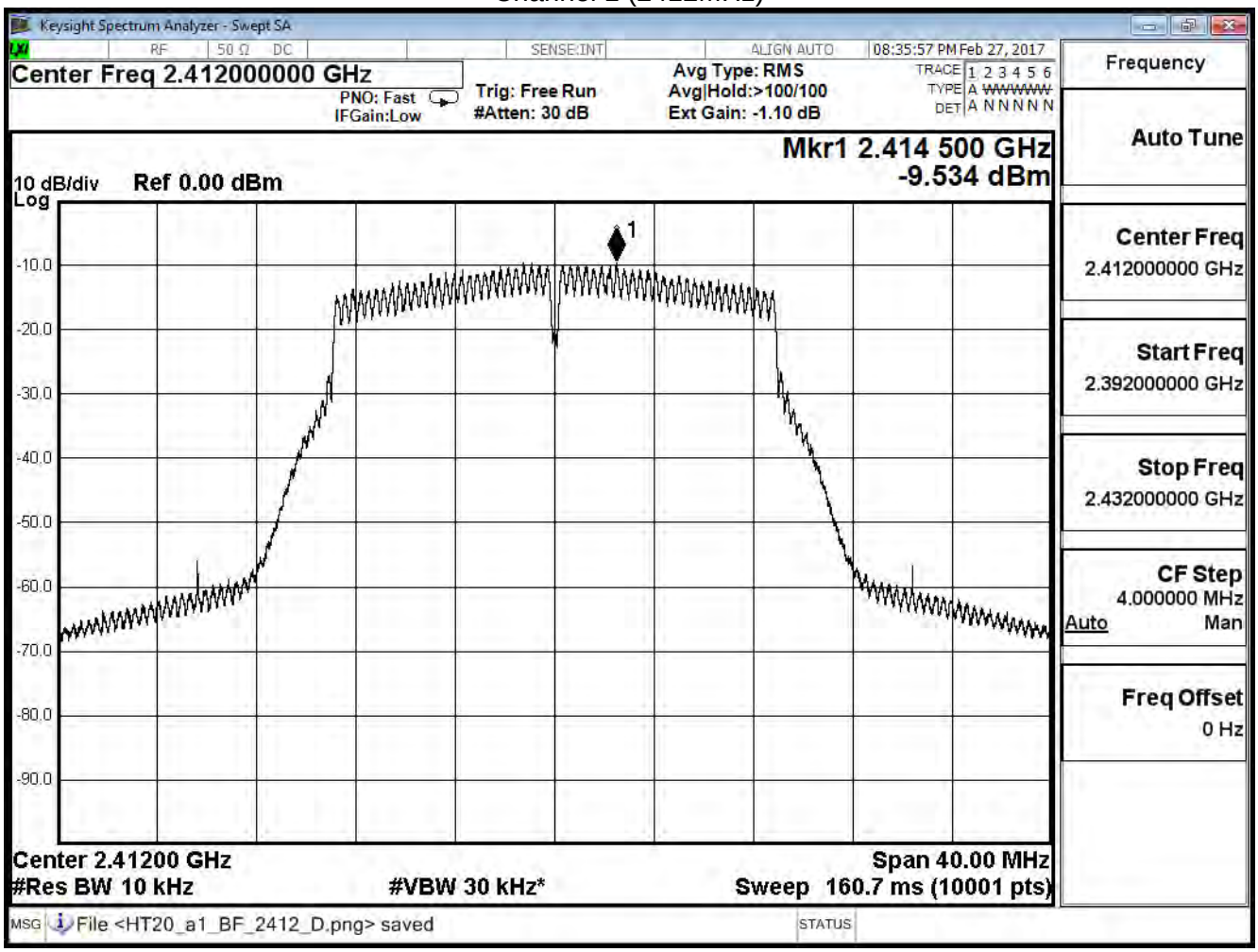
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-9.534	≦7.90	Pass
6	2437	-3.184	≦7.90	Pass
11	2462	-14.366	≦7.90	Pass

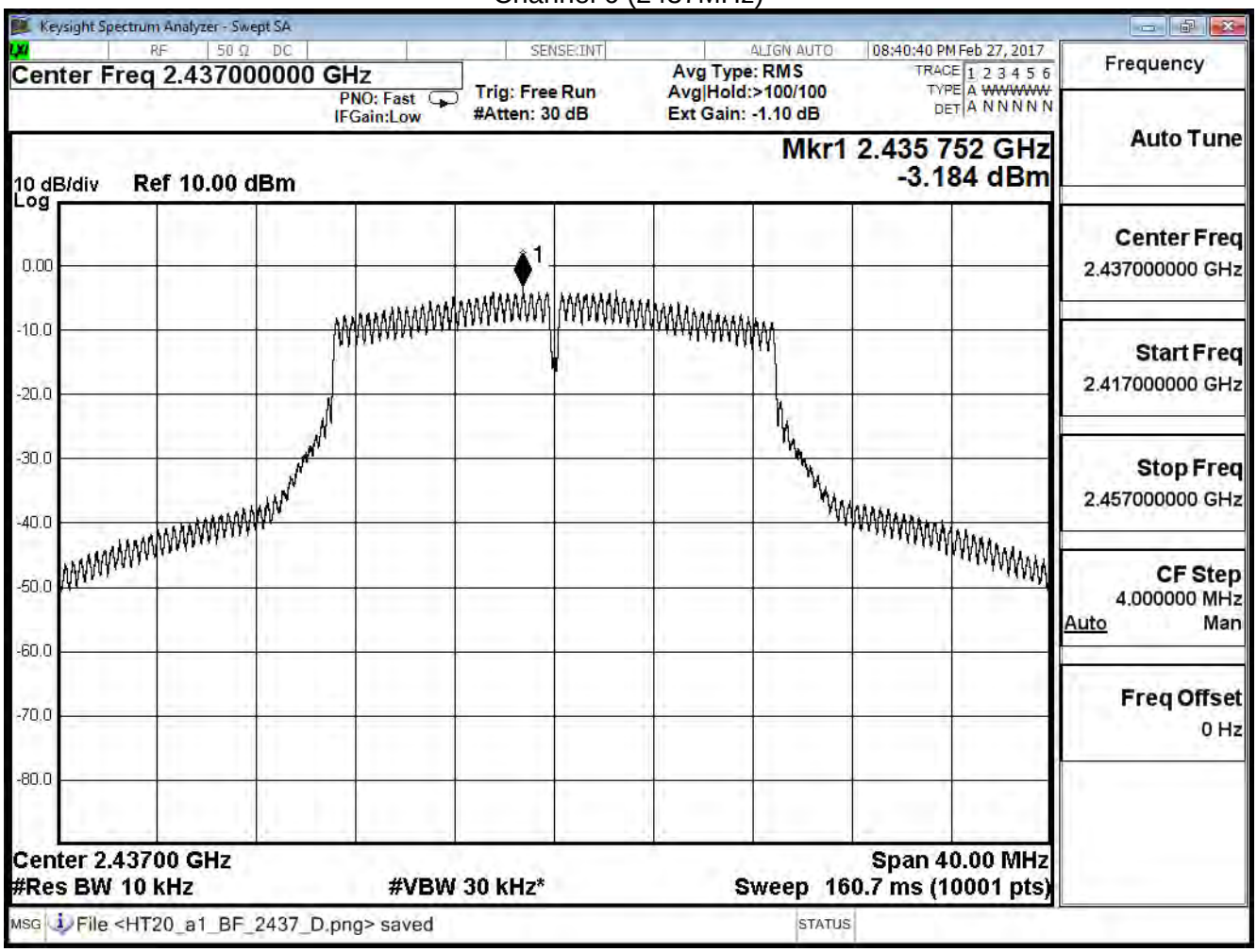
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

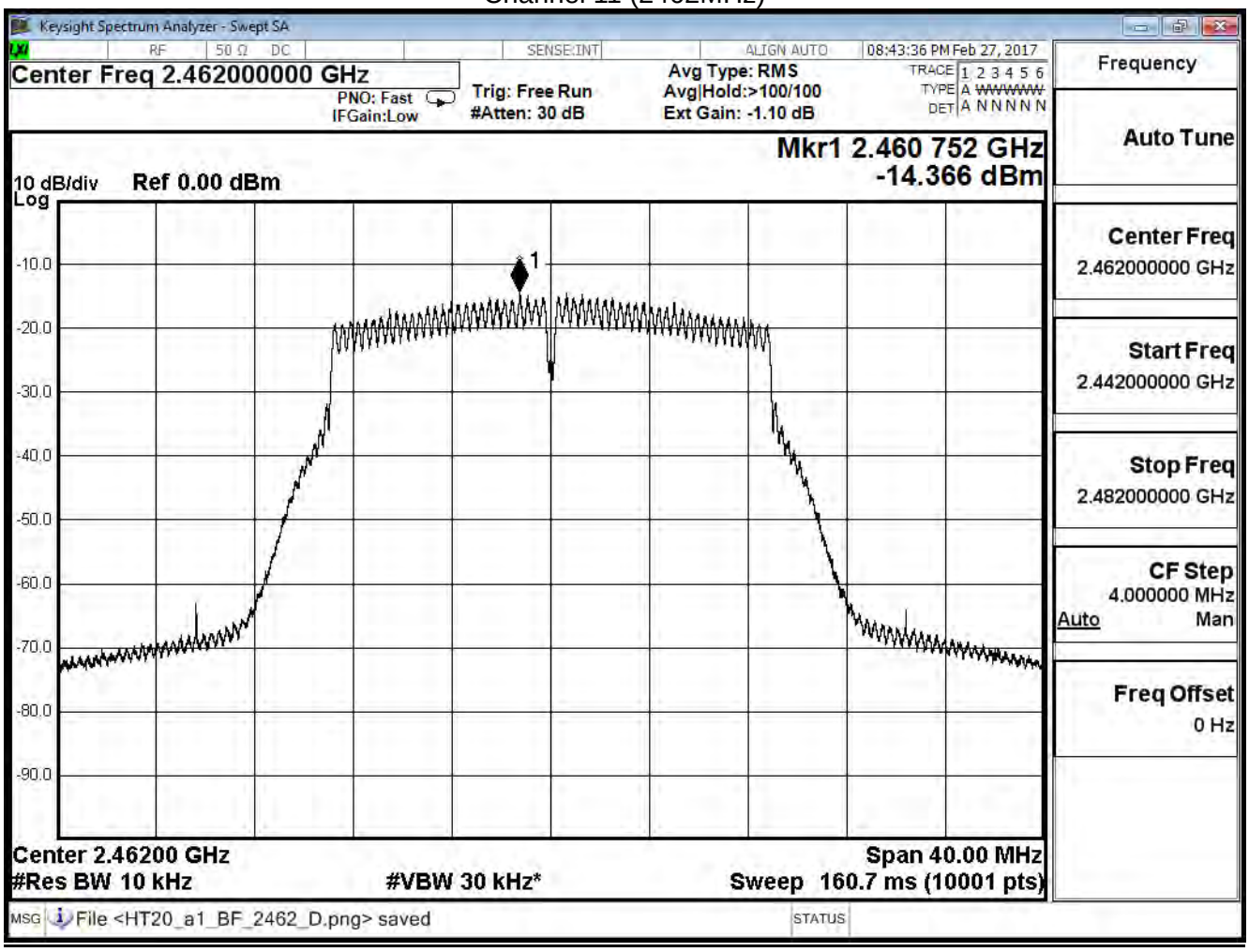
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-4.715	≦7.90	Pass
6	2437	1.340	≦7.90	Pass
11	2462	-9.899	≦7.90	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

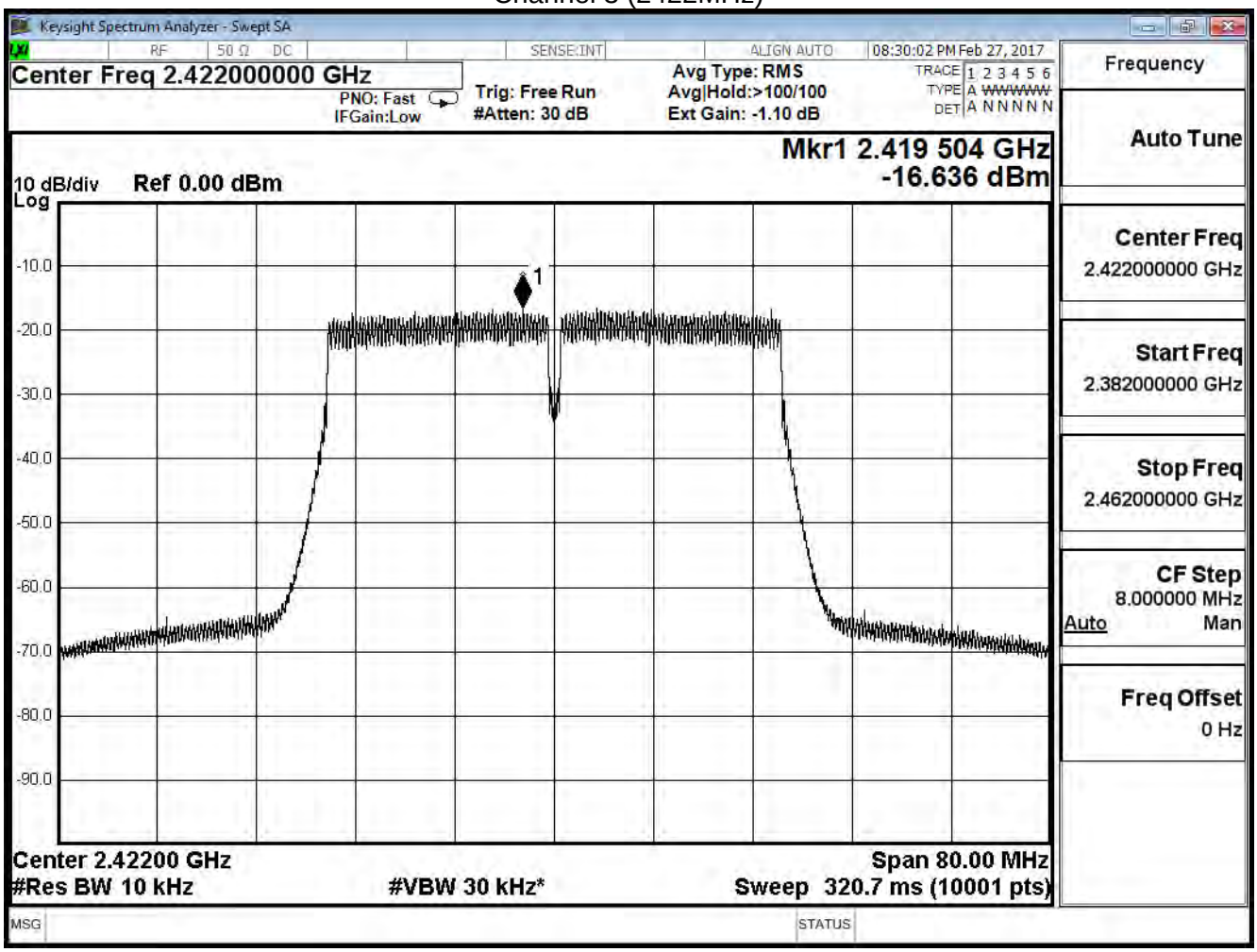
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-16.636	≦7.90	Pass
6	2437	-17.315	≦7.90	Pass
9	2452	-21.992	≦7.90	Pass

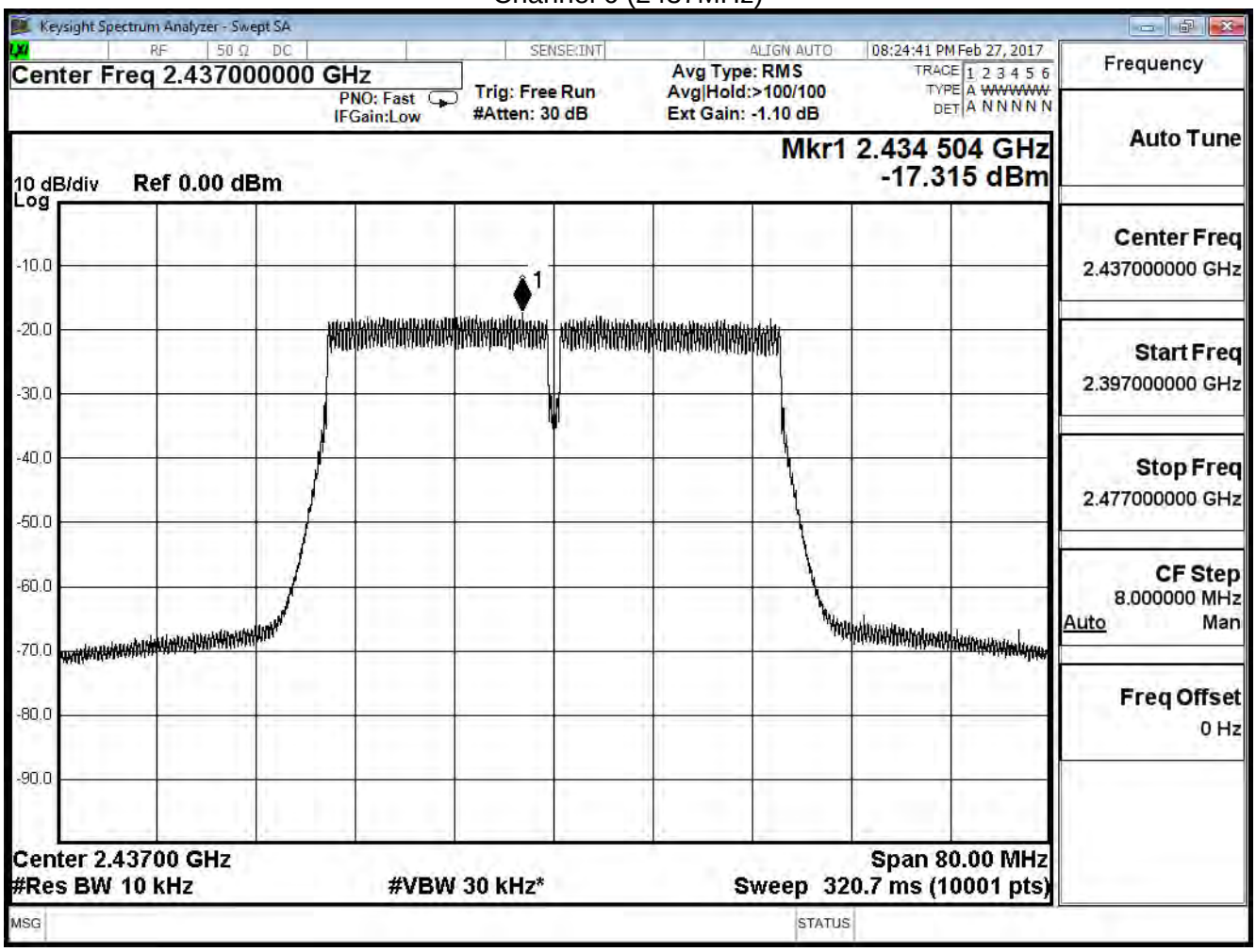
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

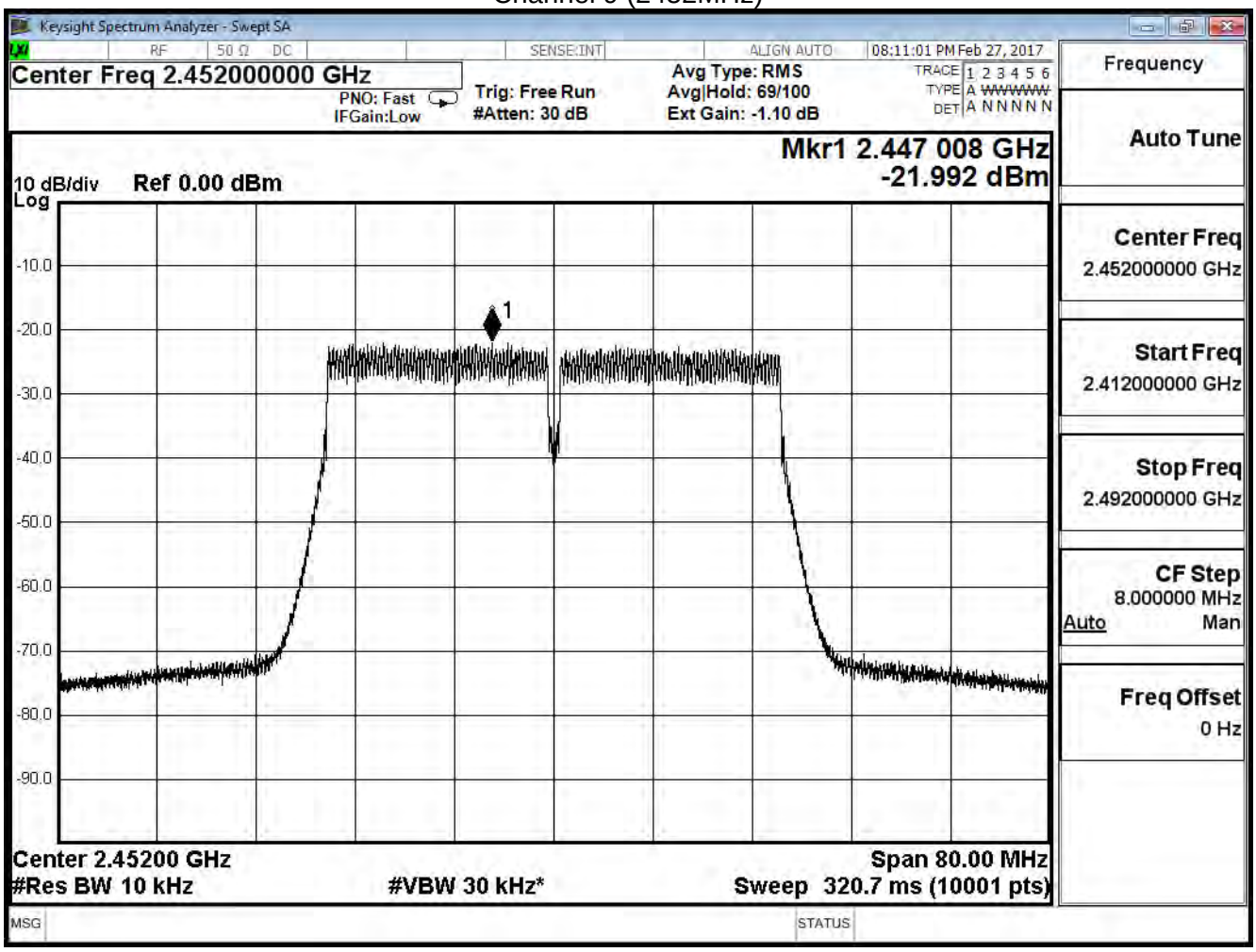
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



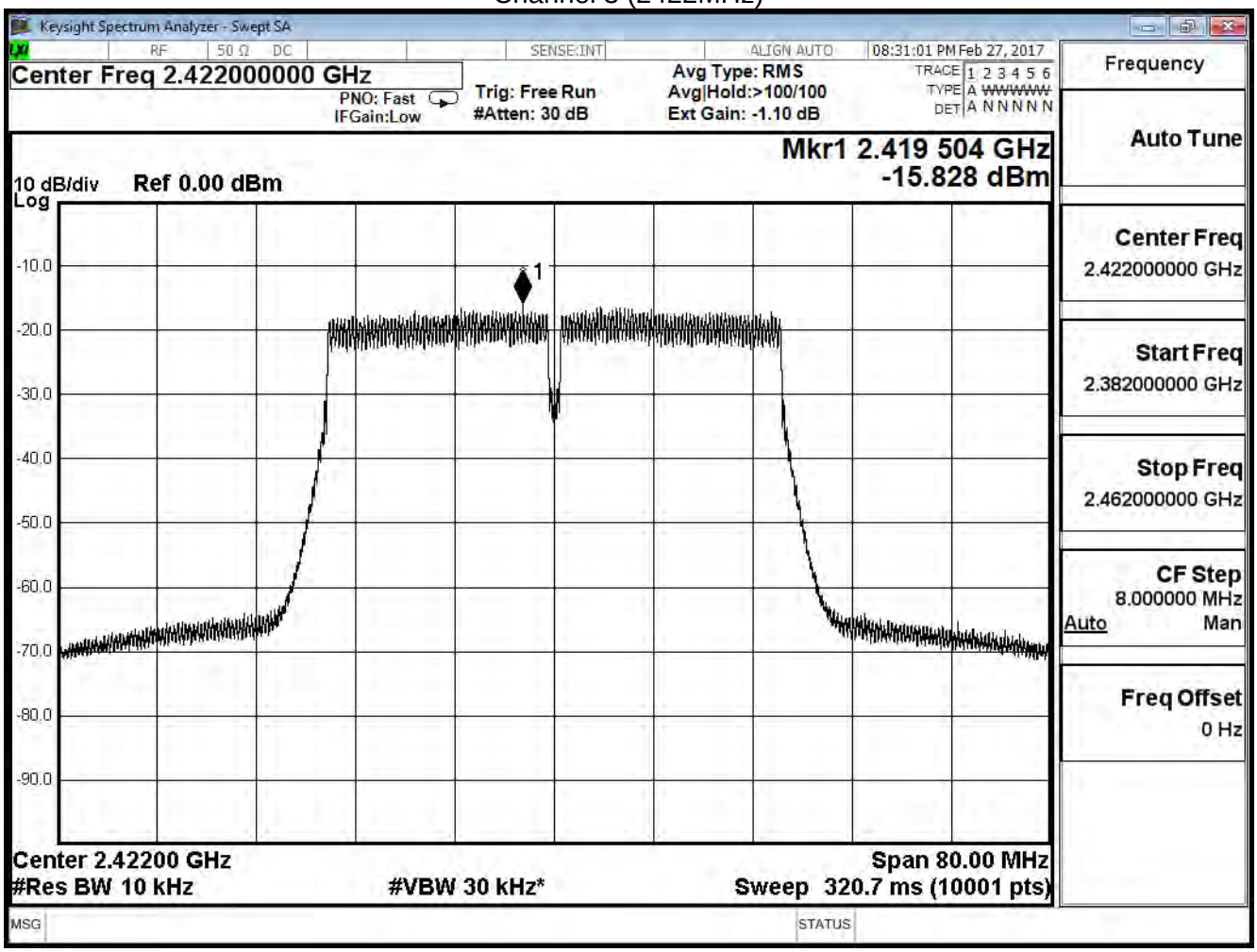
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-15.828	≦7.90	Pass
6	2437	-17.396	≦7.90	Pass
9	2452	-21.714	≦7.90	Pass

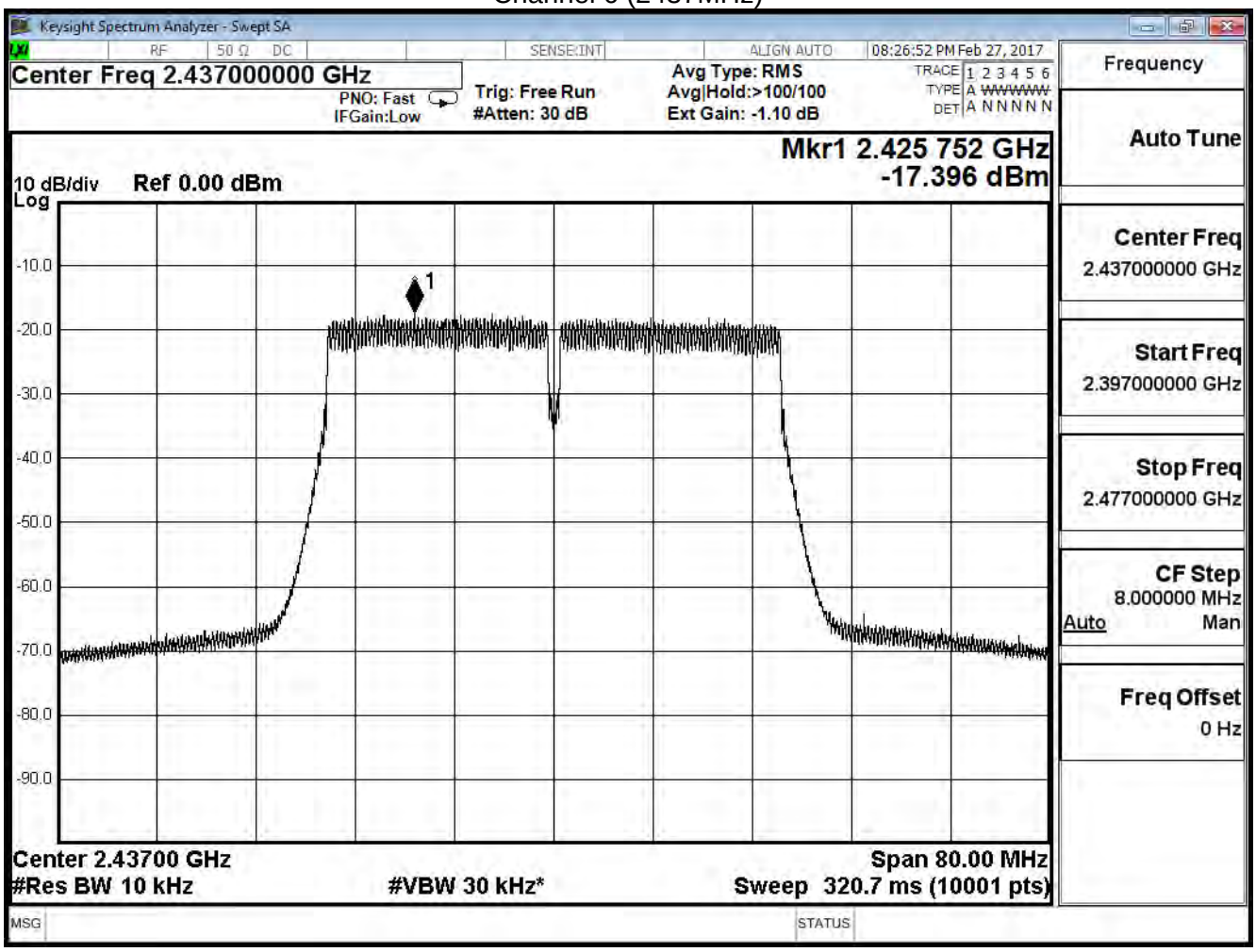
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

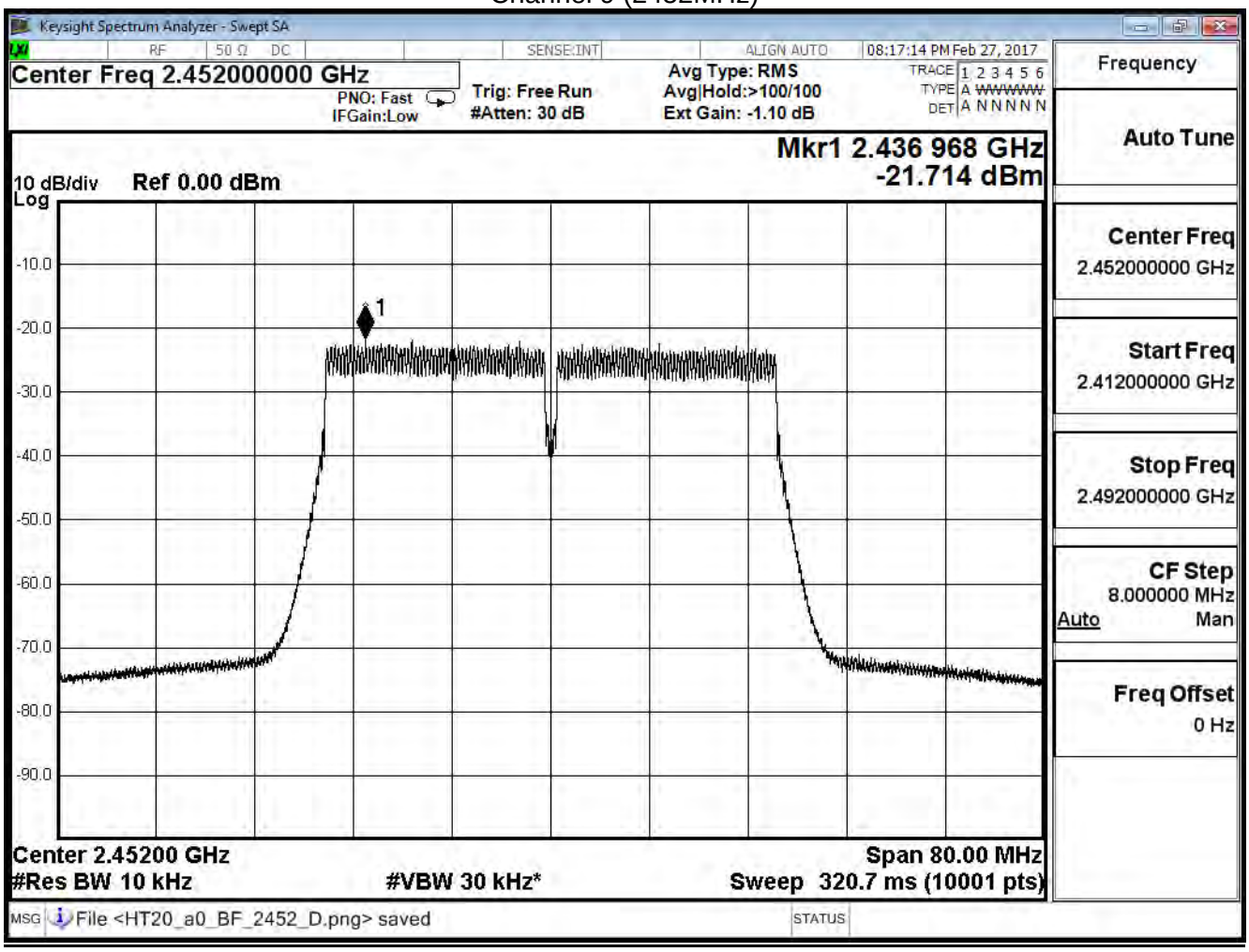
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



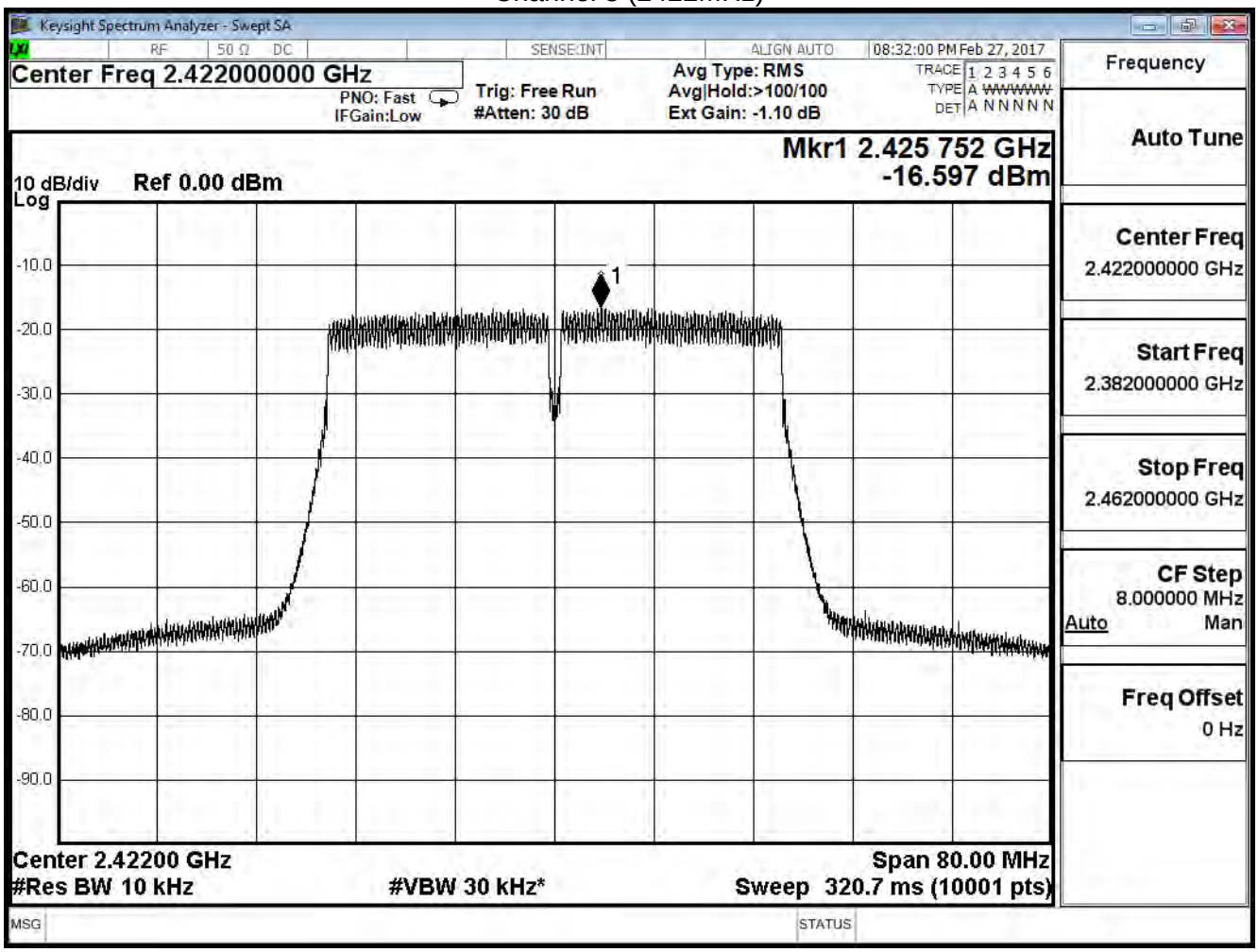
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-16.597	≦7.90	Pass
6	2437	-17.679	≦7.90	Pass
9	2452	-21.253	≦7.90	Pass

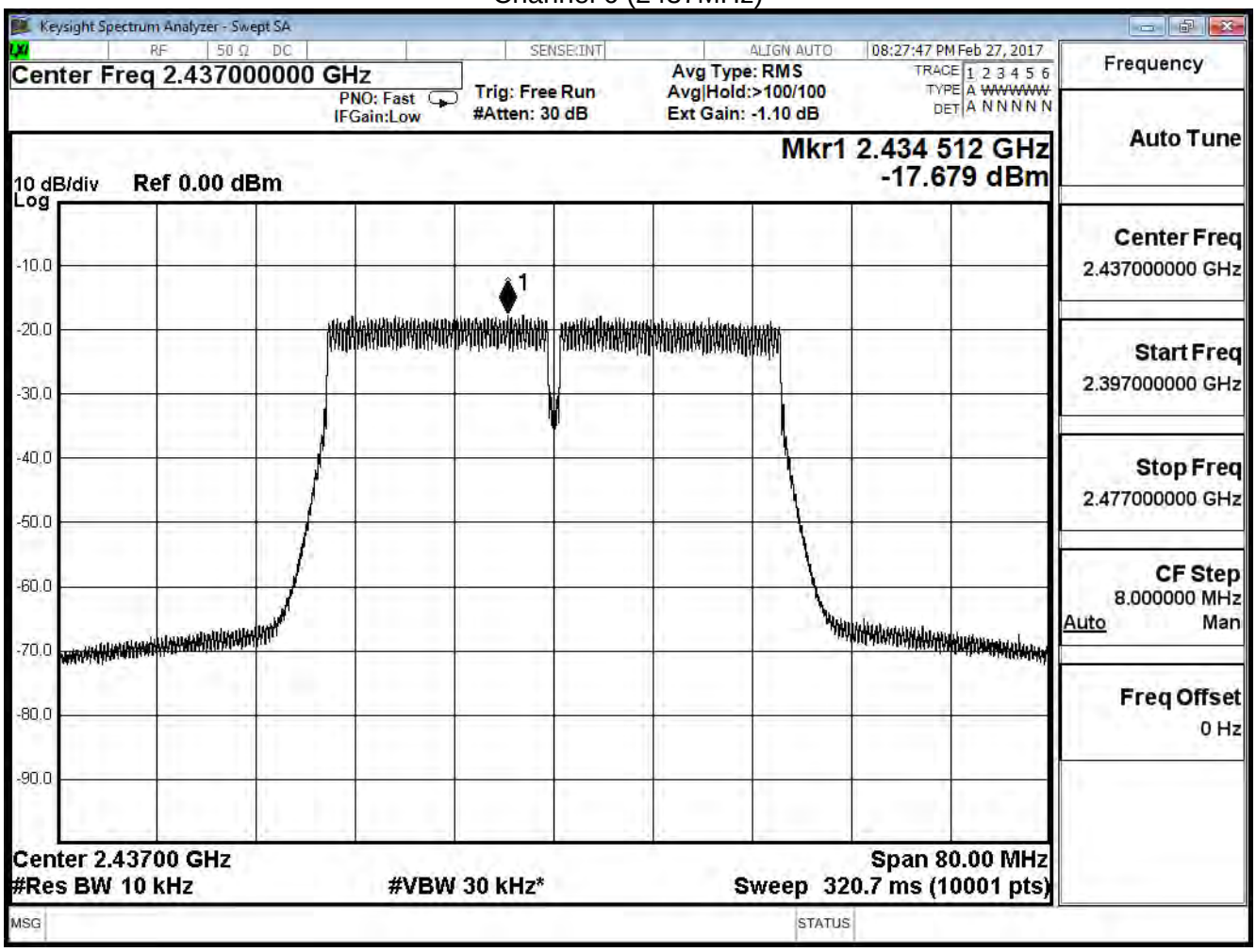
Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm

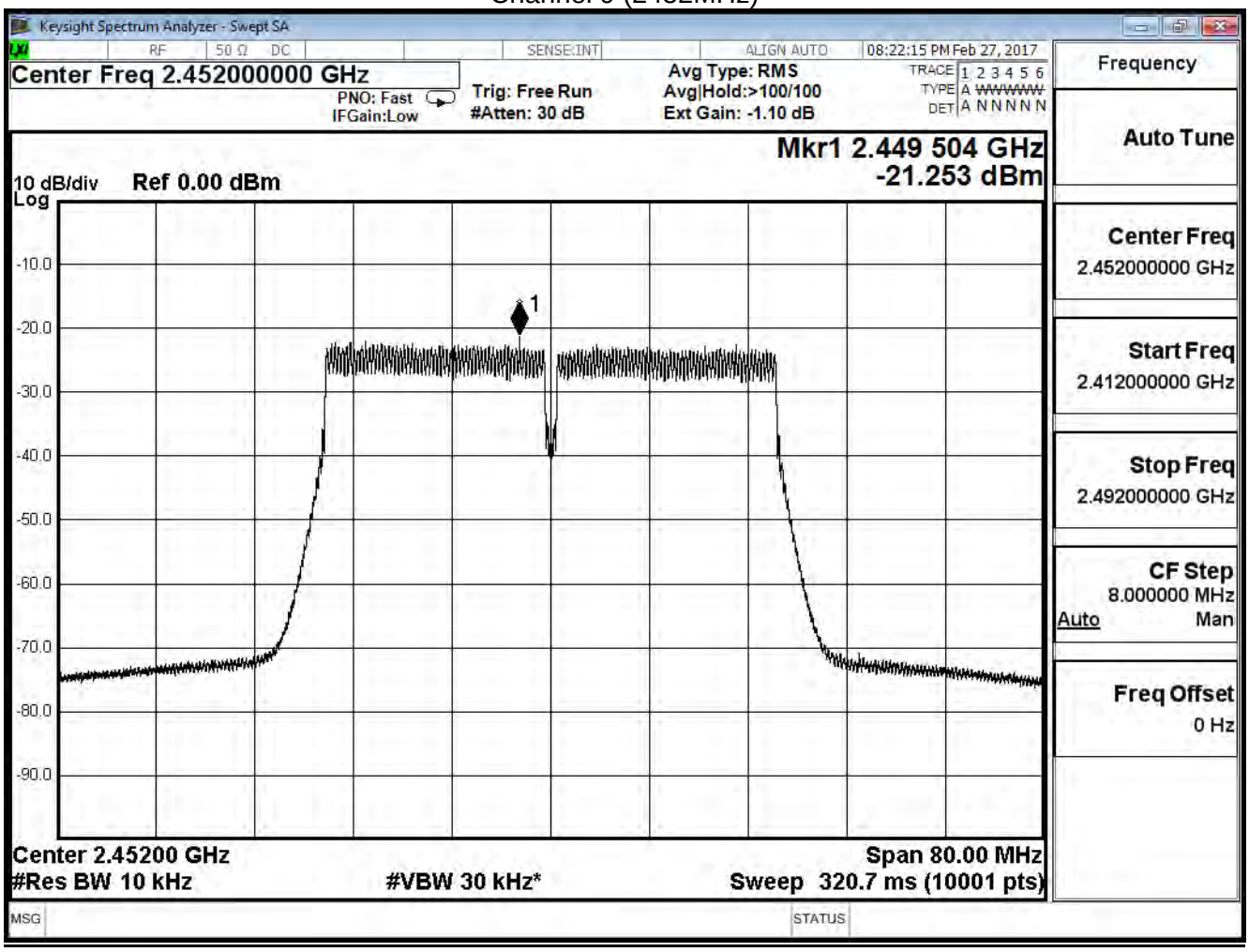
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-11.566	≦7.90	Pass
6	2437	-12.689	≦7.90	Pass
9	2452	-16.871	≦7.90	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.33=6.1

Limit =8dBm-(6.1dBi-6dBi)=7.90dBm