

9. Power Density

9.1. Test Equipment

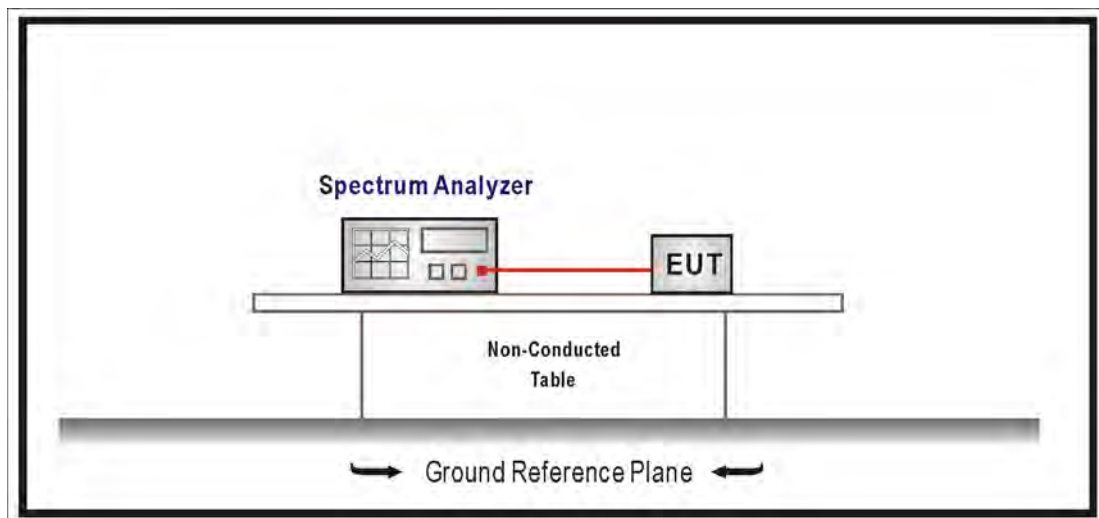
The following test equipment is used during the test:

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.

9.2. Test Setup



9.3. Test Procedures

The EUT was setup according to ANSI C63.10; tested according to DTS test procedure Section 10.2 of KDB558074 v03r02, Set the $3\text{KHz} \leq \text{RBW} \leq 100\text{KHz}$, Set the $\text{VBW} \geq 3 \times \text{RBW}$, Sweep time=Auto, Set RMS detector.

9.4. 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.

9.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

9.6. Uncertainty

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

9.7. 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	2014/03/12	Test Site	SR7

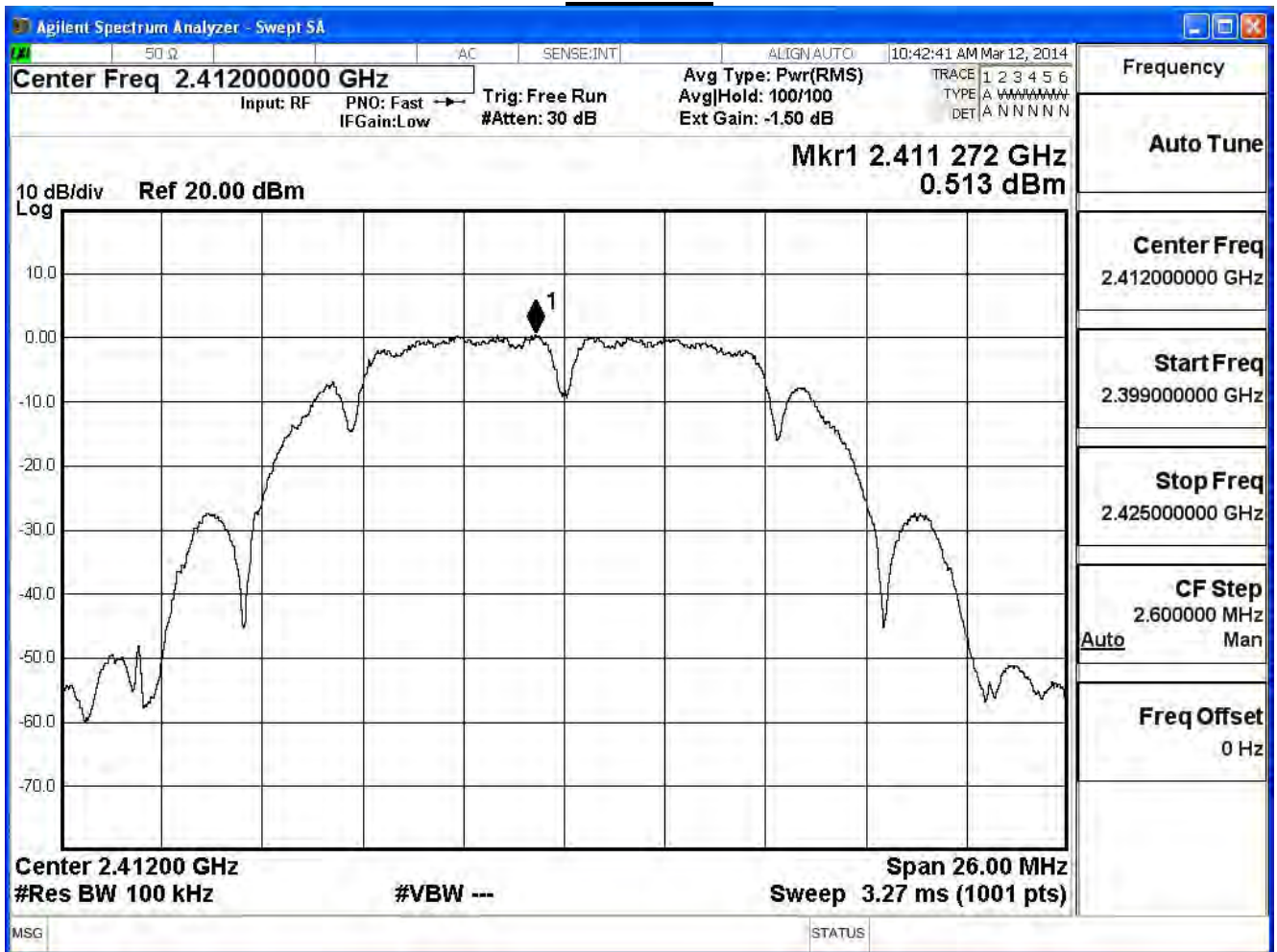
IEEE 802.11b (ANT0)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	0.513	-14.687	≤ 7.32	Pass
6	2437	1.065	-14.135	≤ 7.32	Pass
11	2462	0.673	-14.527	≤ 7.32	Pass

Note:

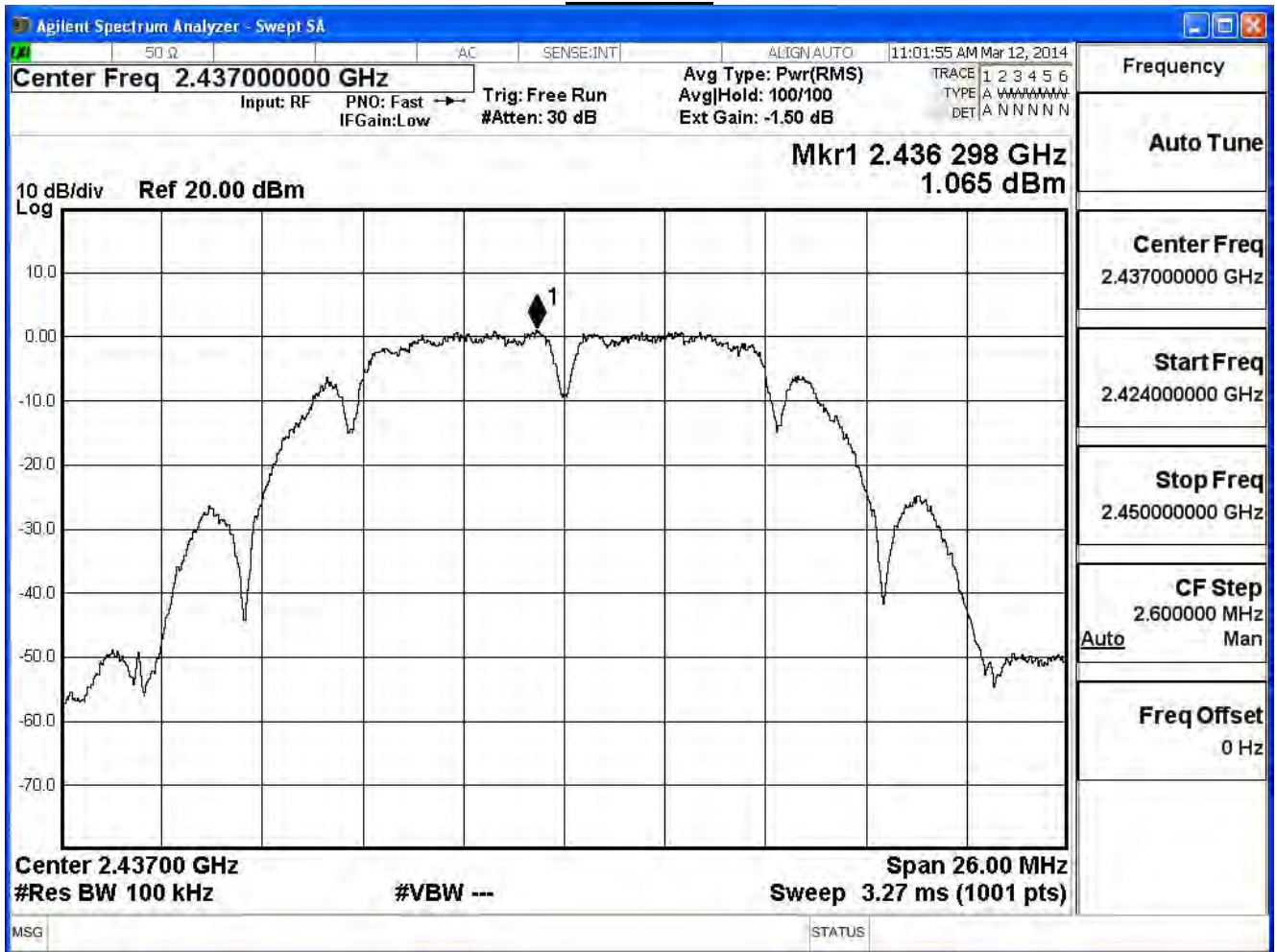
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

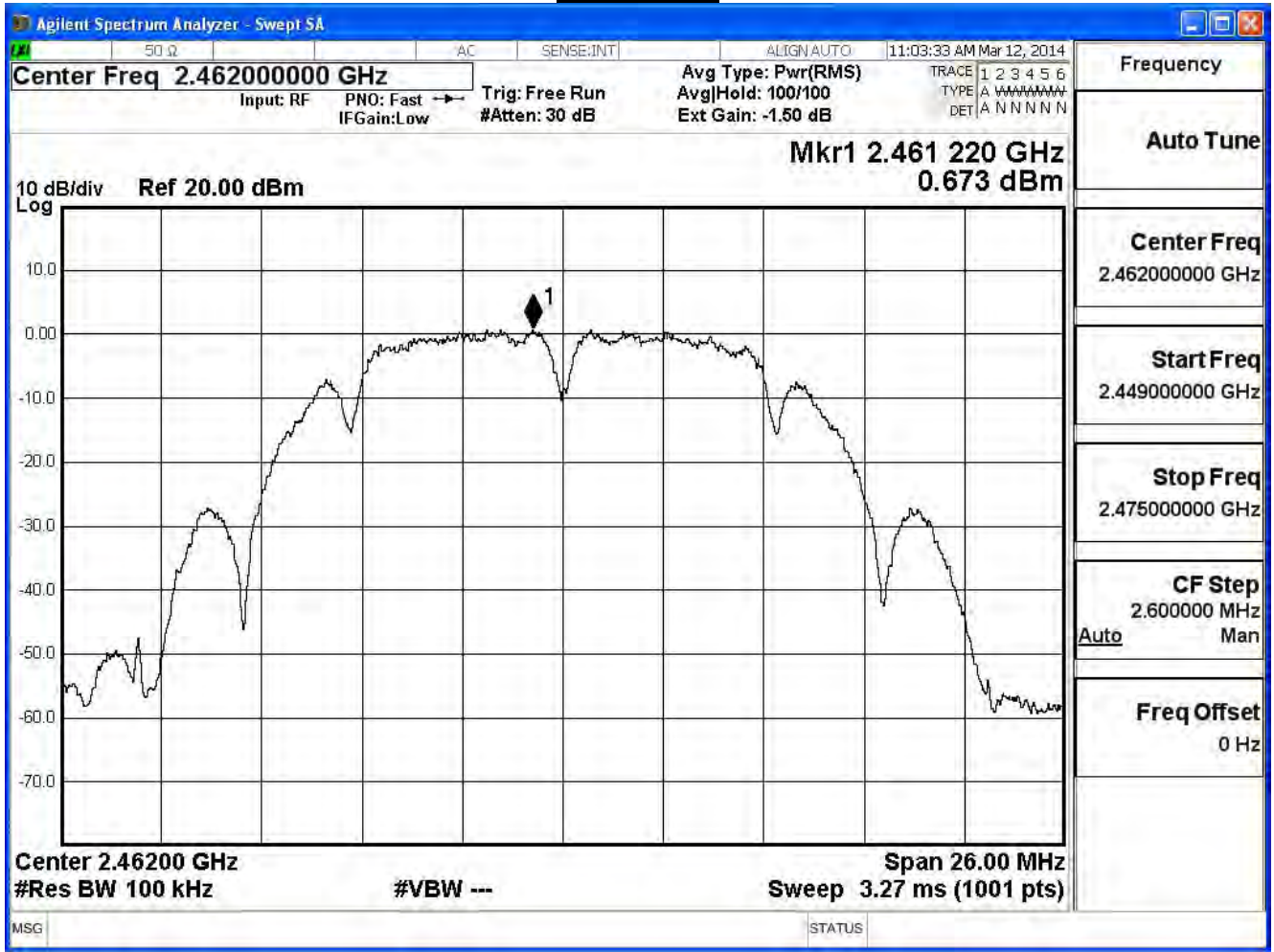
Channel 1



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	2014/03/12	Test Site	SR7

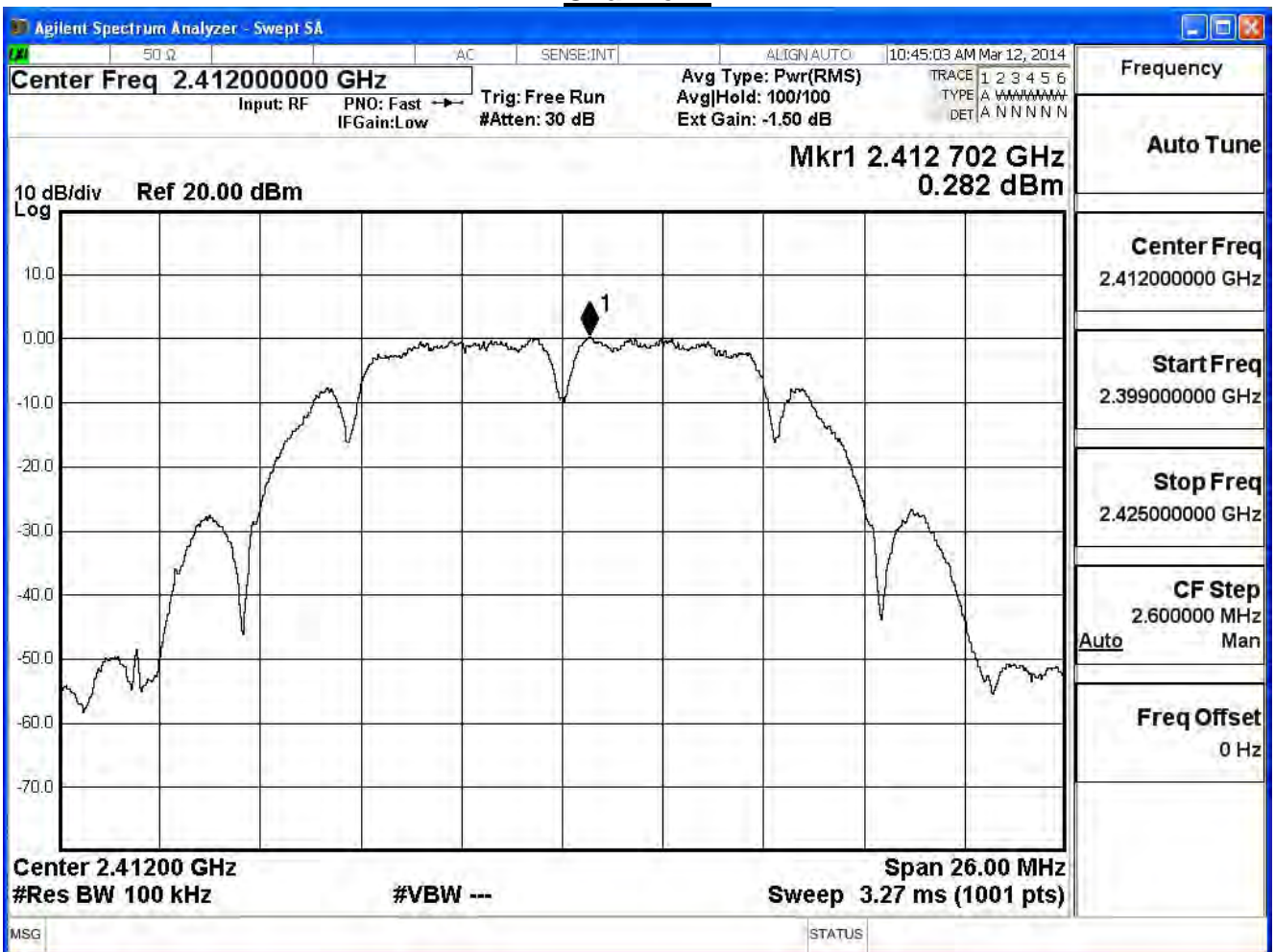
IEEE 802.11b (ANT1)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	0.282	-14.918	≤ 7.32	Pass
6	2437	0.969	-14.231	≤ 7.32	Pass
11	2462	0.714	-14.486	≤ 7.32	Pass

Note:

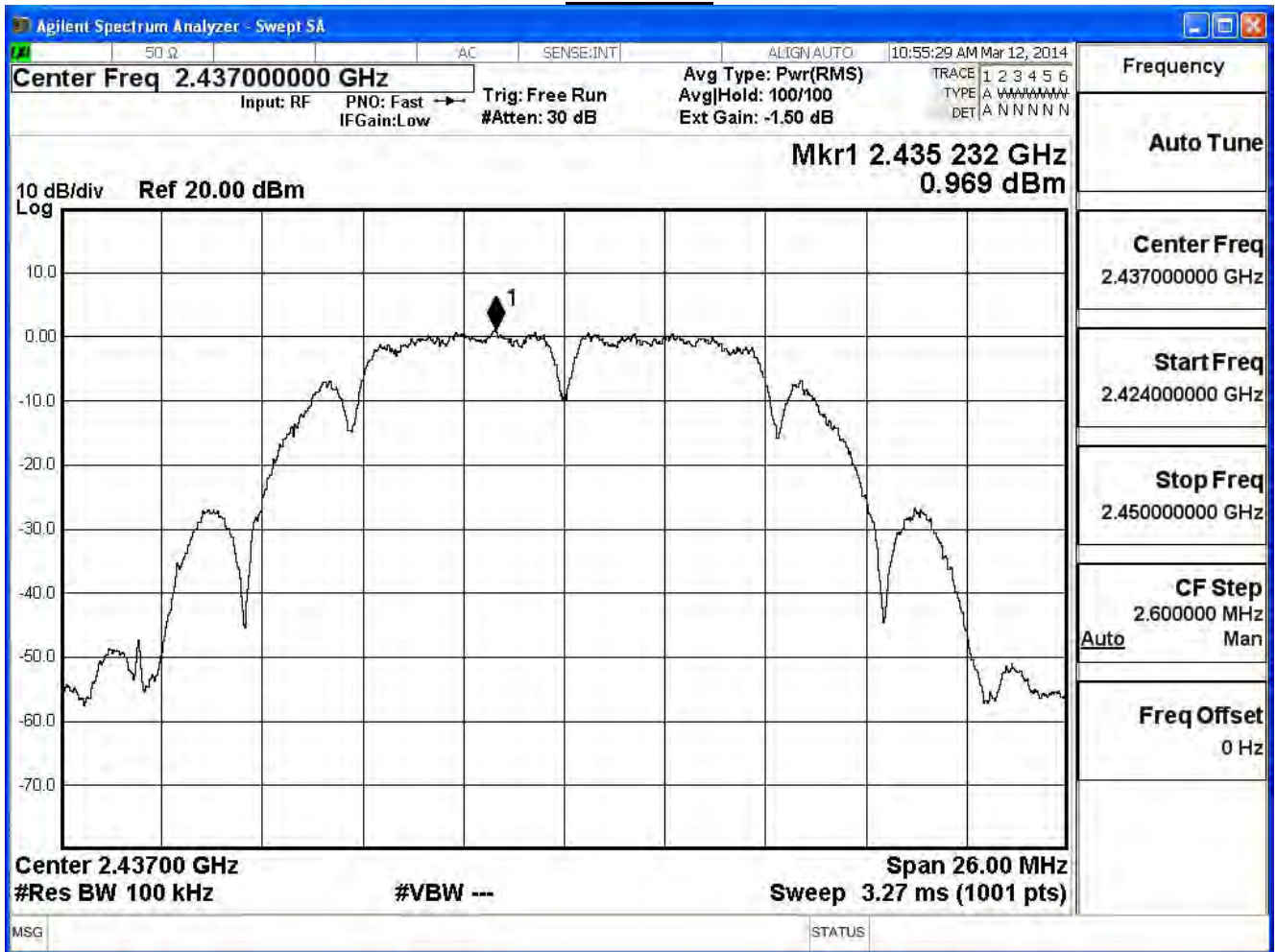
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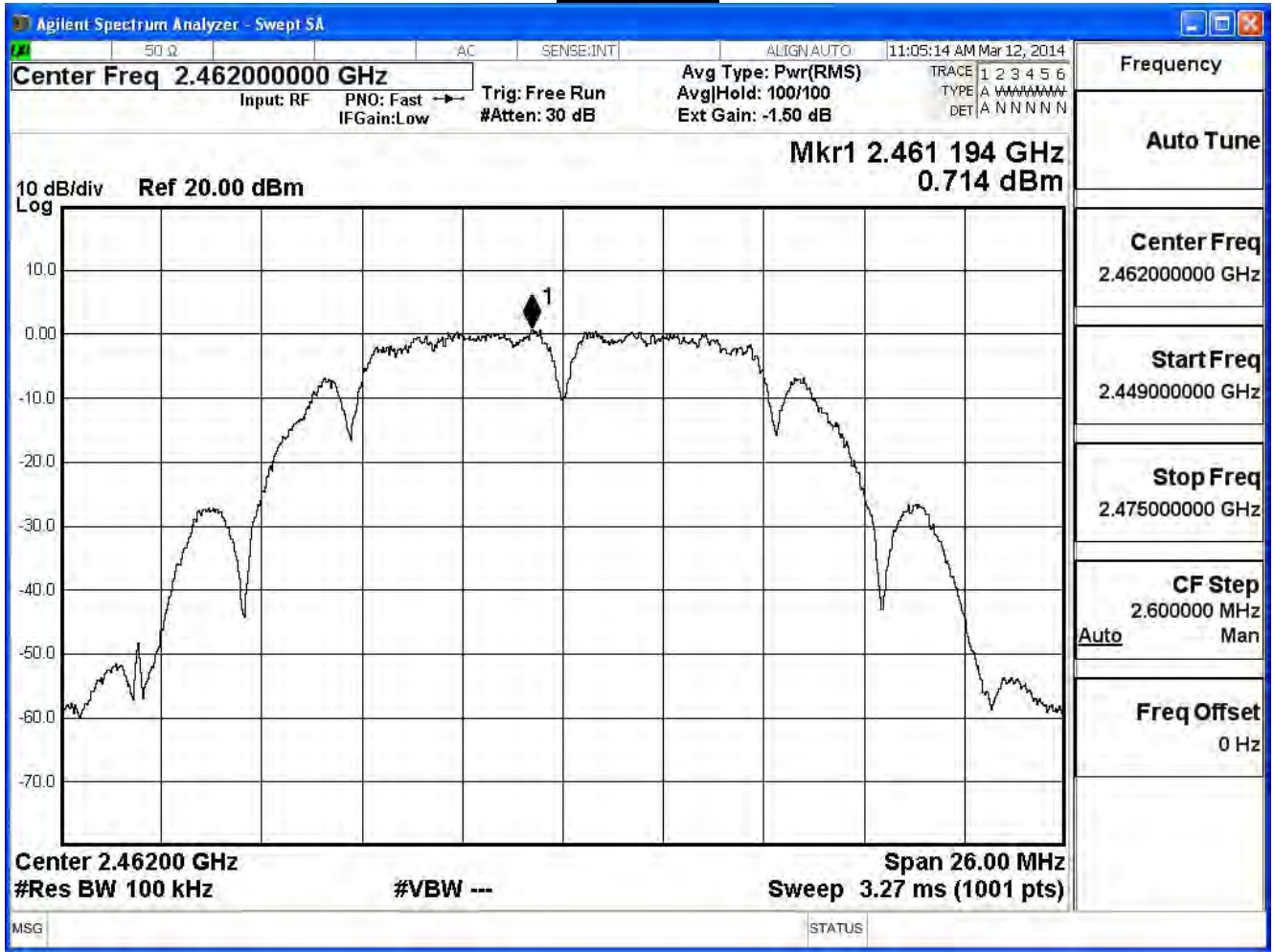
Channel 1



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	2014/03/12	Test Site	SR7

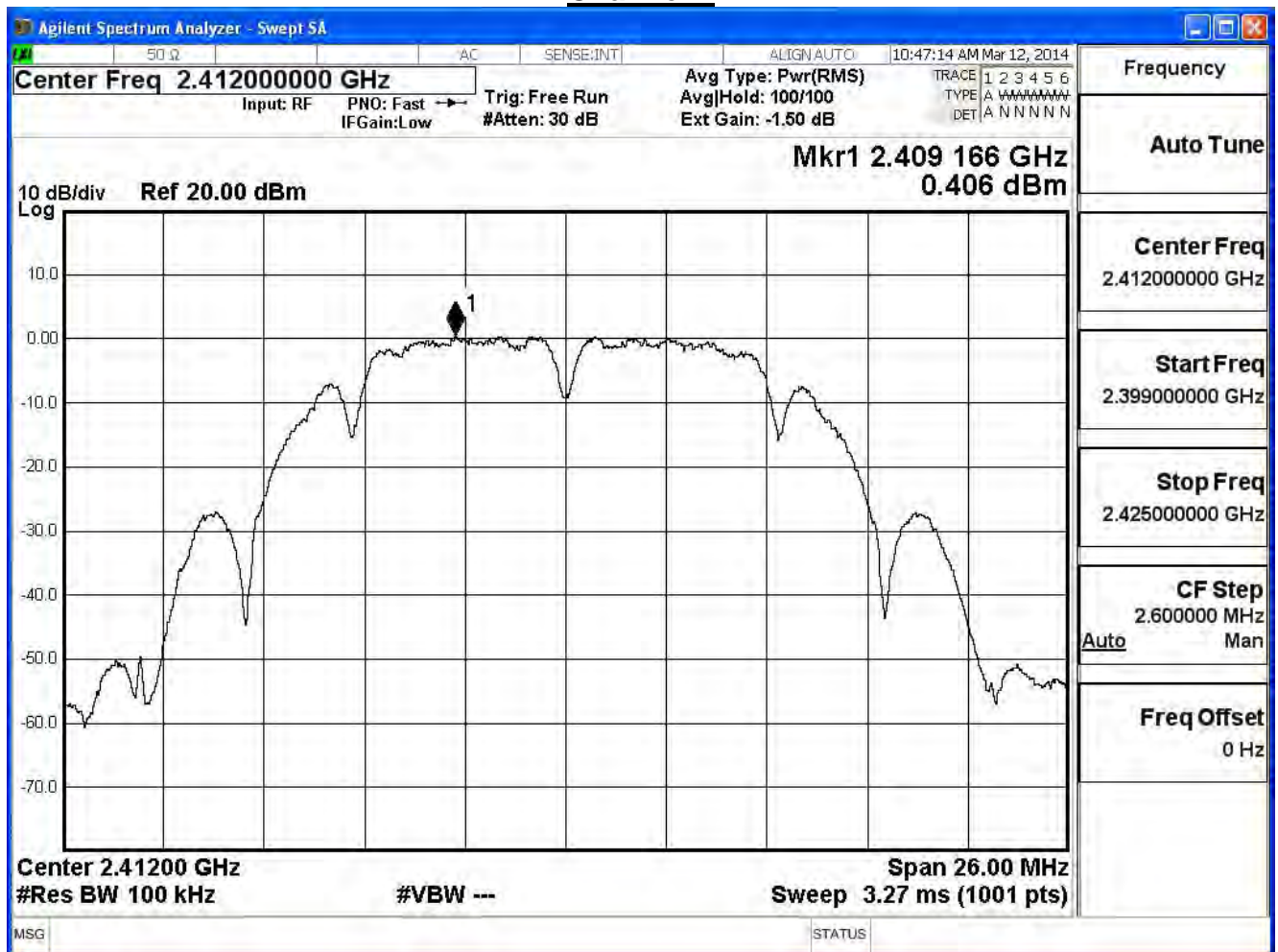
IEEE 802.11b (ANT2)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	0.406	-14.794	≤ 7.32	Pass
6	2437	0.929	-14.271	≤ 7.32	Pass
11	2462	0.955	-14.245	≤ 7.32	Pass

Note:

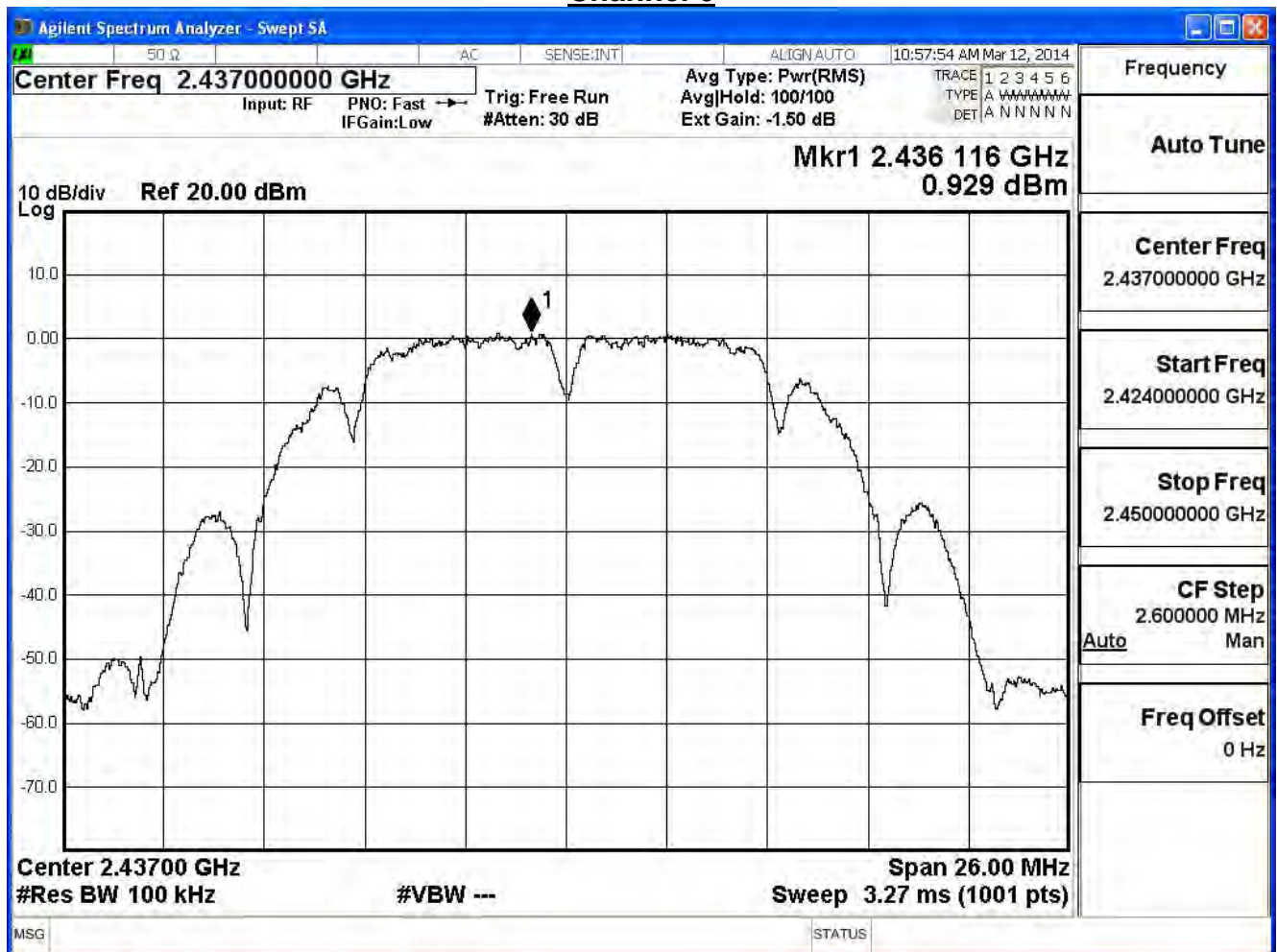
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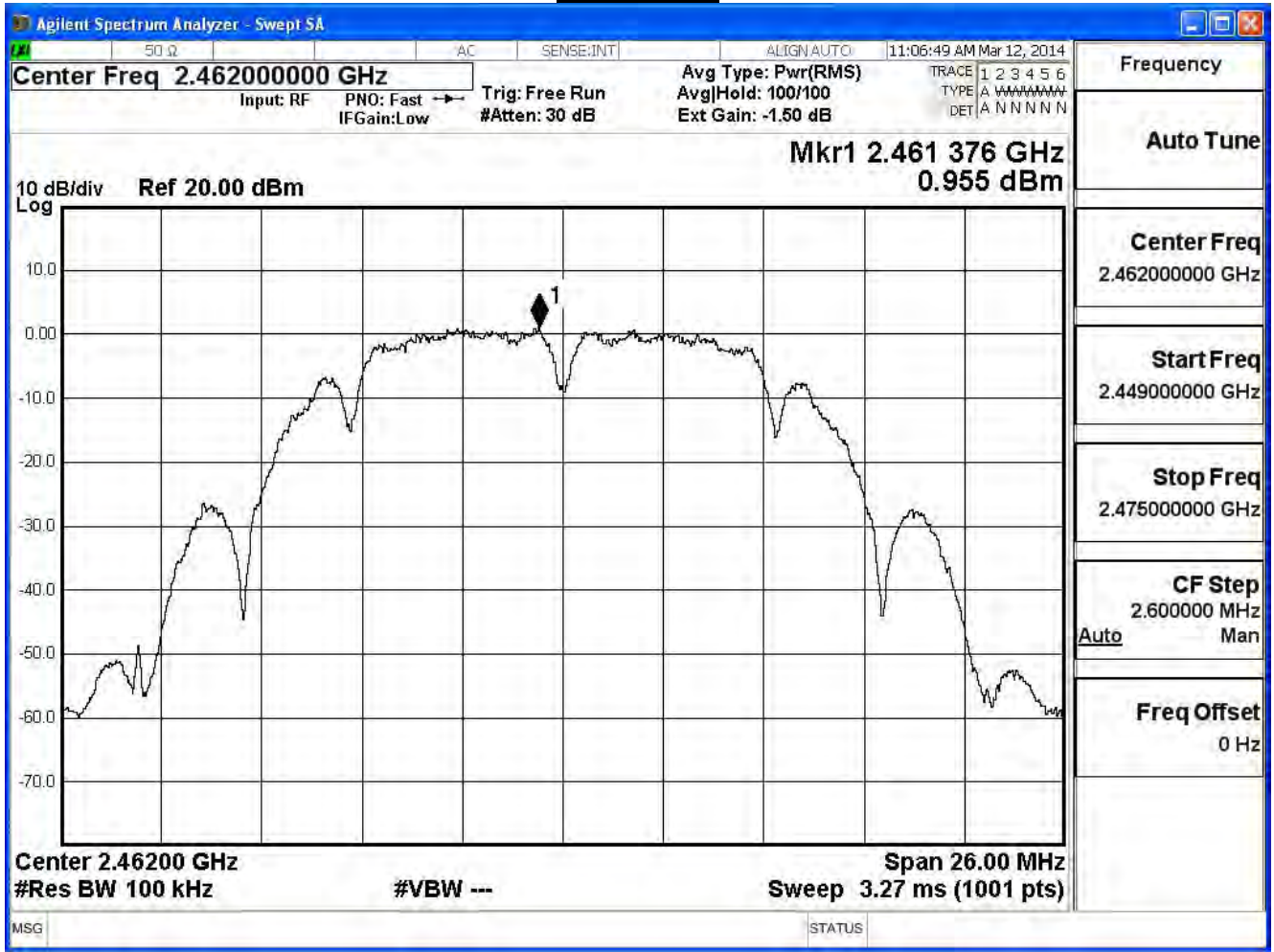
Channel 1



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	2014/03/12	Test Site	SR7

IEEE 802.11b (ANT0+1+2)				
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	-10.027	≤ 7.32	Pass
6	2437	-9.441	≤ 7.32	Pass
11	2462	-9.646	≤ 7.32	Pass

Note:

Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/03/12	Test Site	SR7

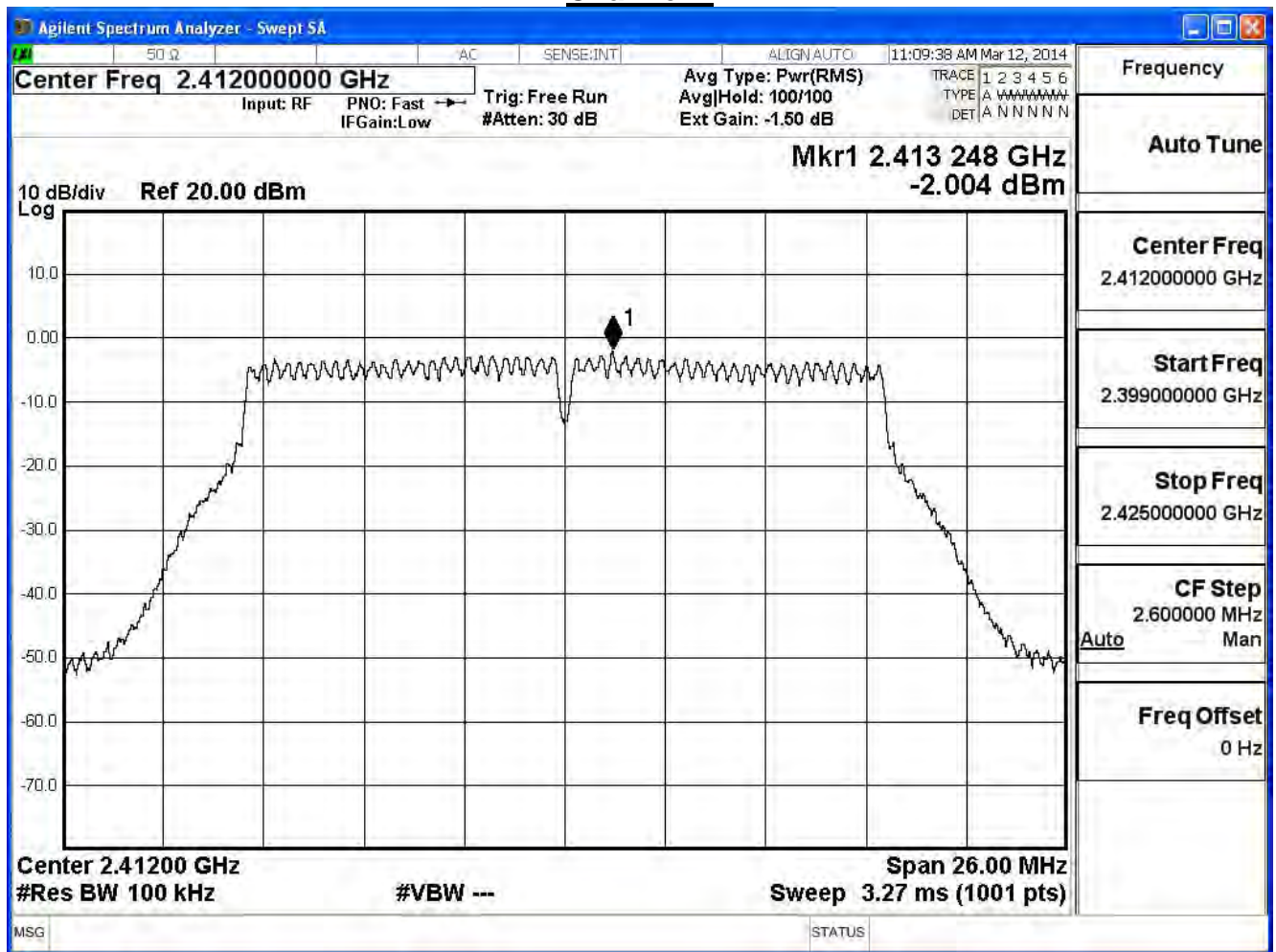
IEEE 802.11g (ANT0)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-2.004	-17.204	≤ 7.32	Pass
6	2437	3.718	-11.482	≤ 7.32	Pass
11	2462	-1.584	-16.784	≤ 7.32	Pass

Note:

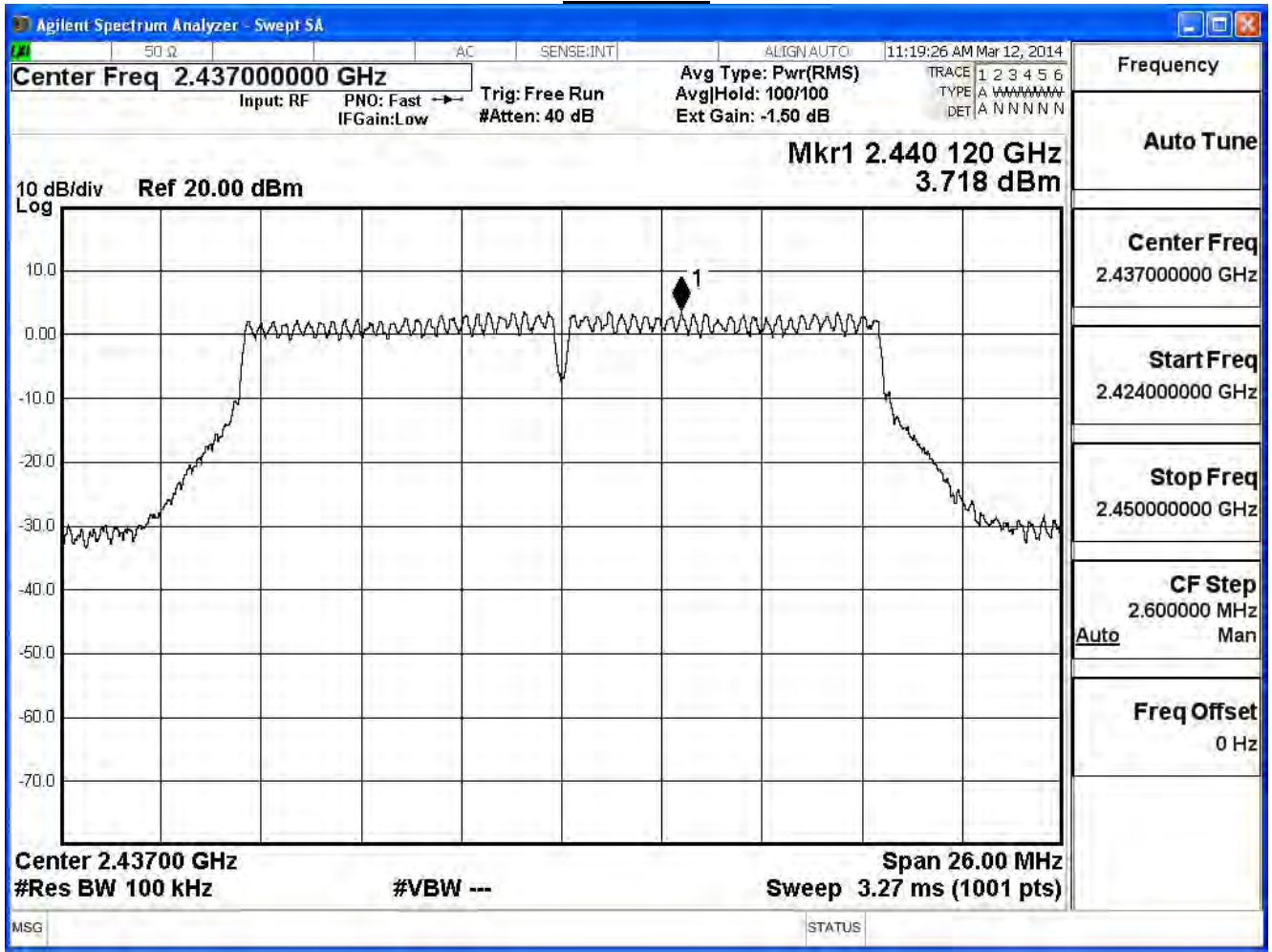
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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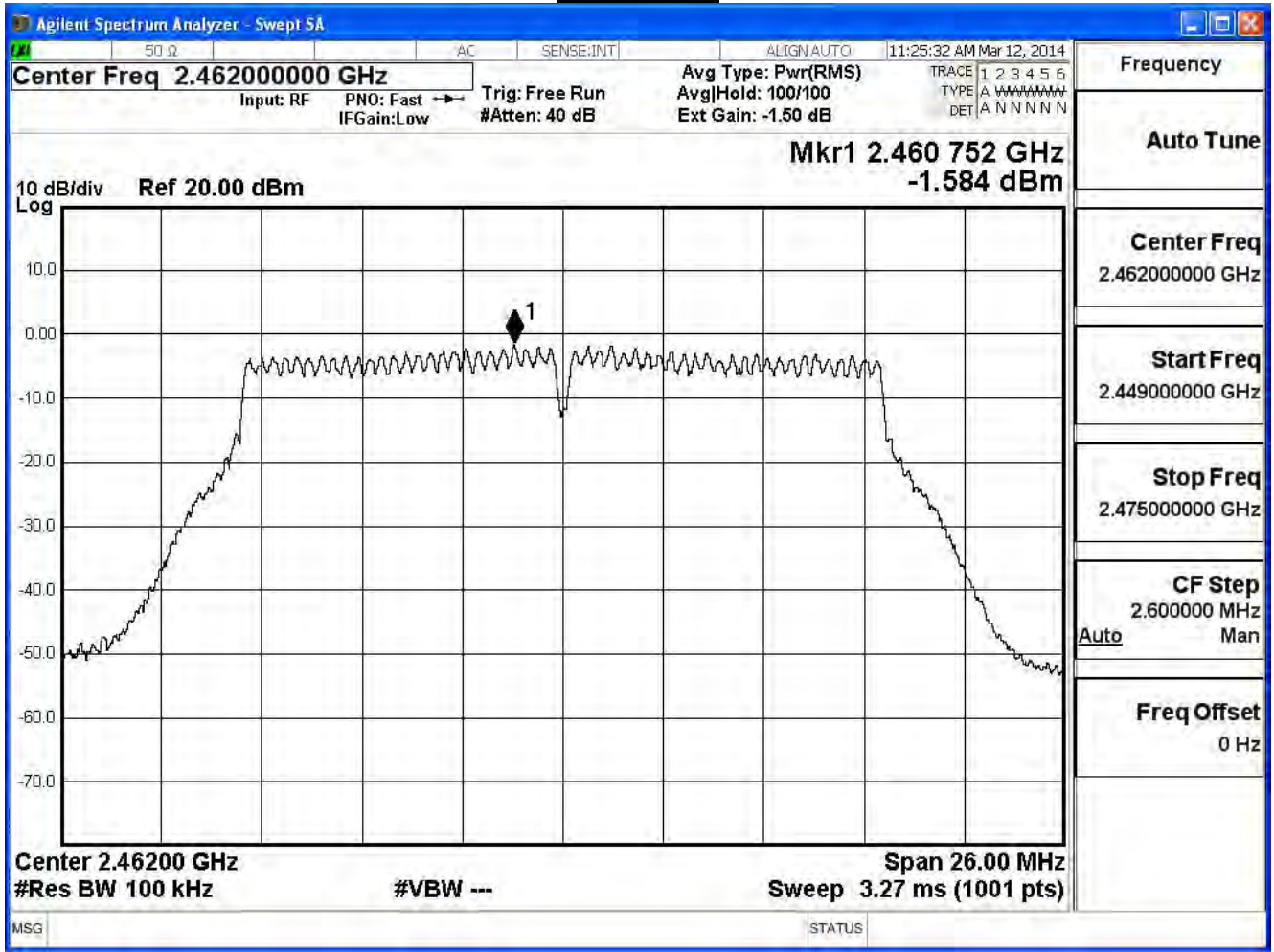
Channel 1



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	2014/03/12	Test Site	SR7

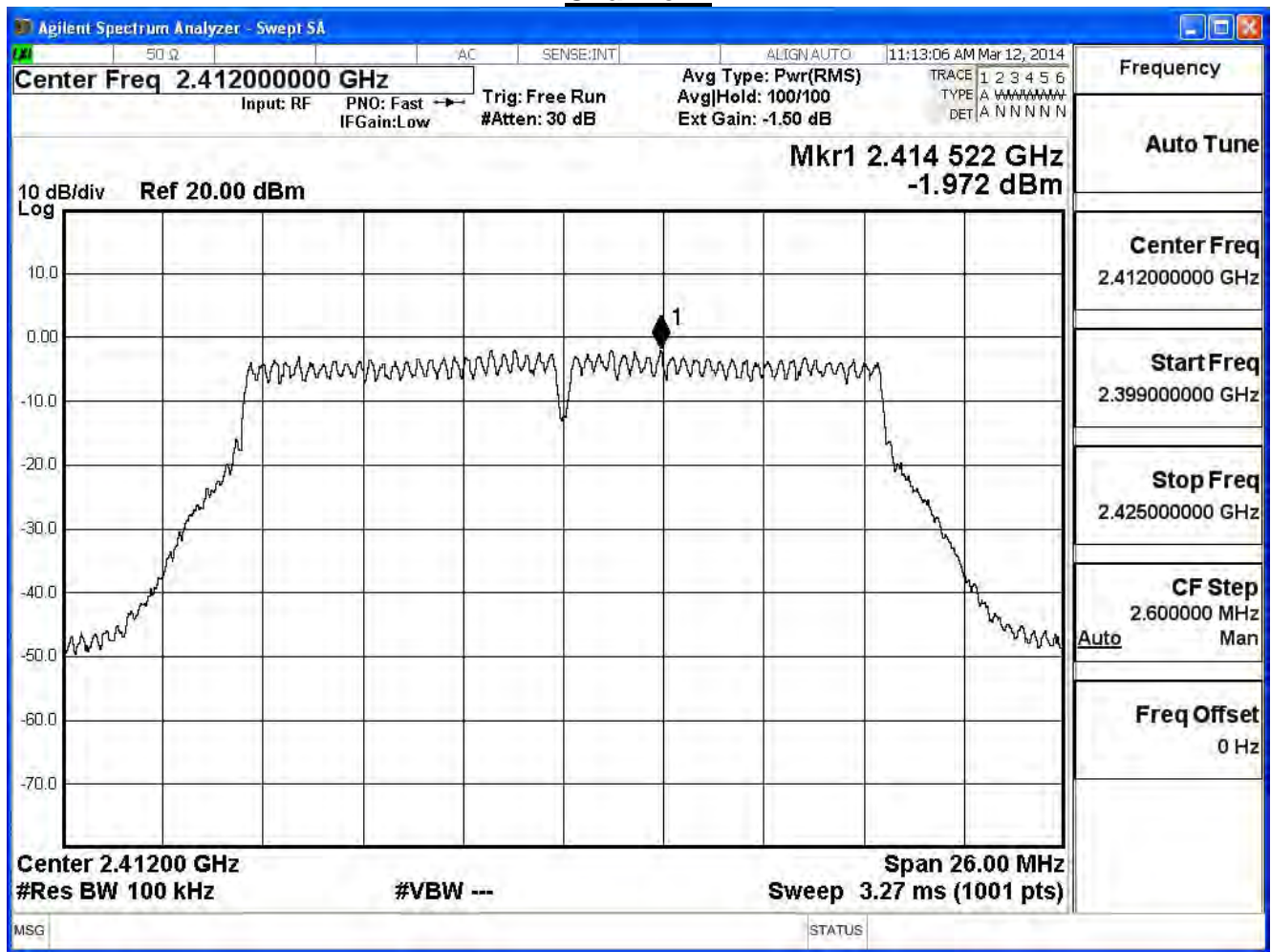
IEEE 802.11g (ANT1)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-1.972	-17.172	≤ 7.32	Pass
6	2437	3.682	-11.518	≤ 7.32	Pass
11	2462	-1.851	-17.051	≤ 7.32	Pass

Note:

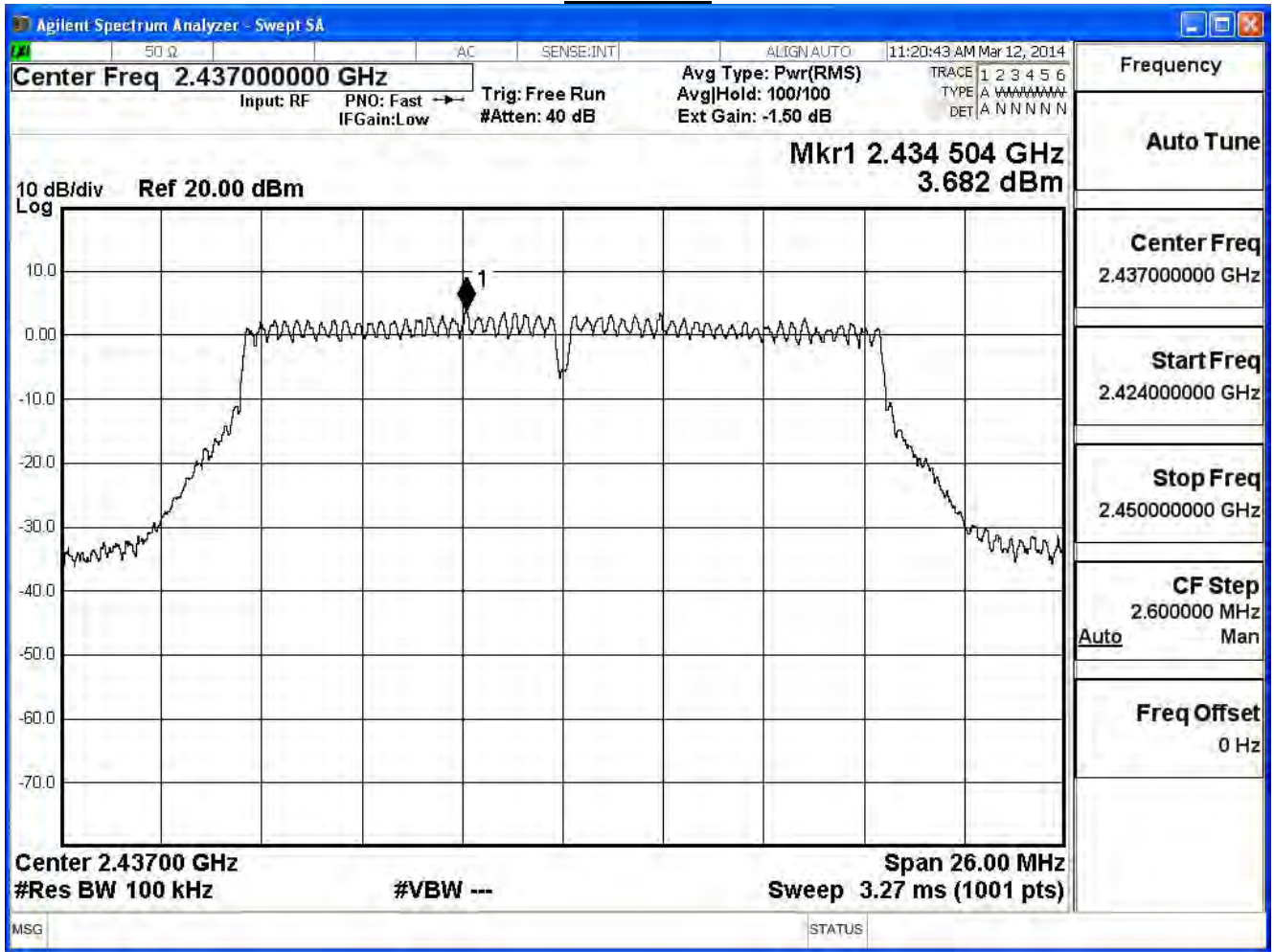
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Required Limit = $8\text{dBm} - (6.68\text{dBi} - 6\text{dB}) = 7.32\text{dBm}$

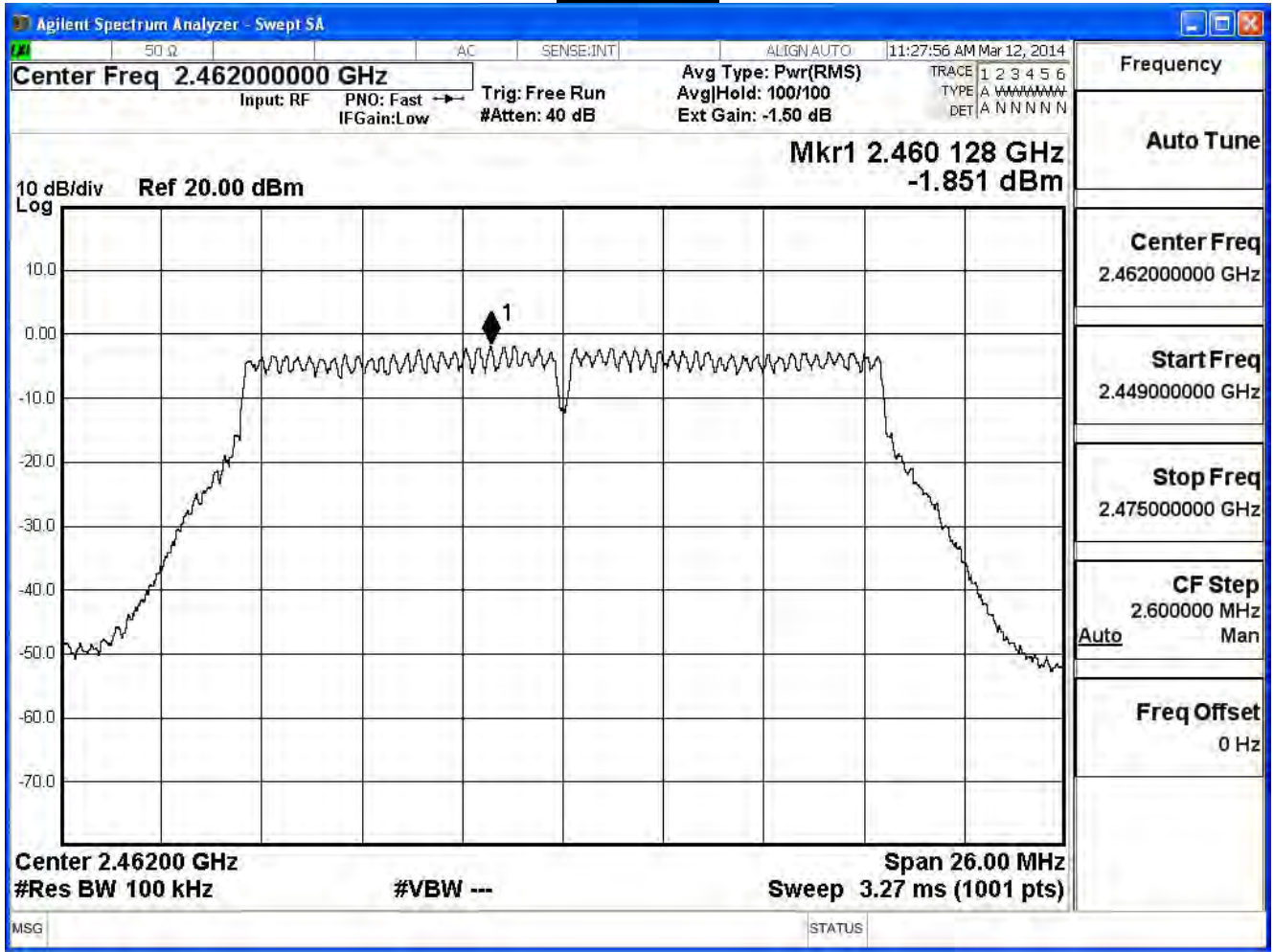
Channel 1



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	2014/03/12	Test Site	SR7

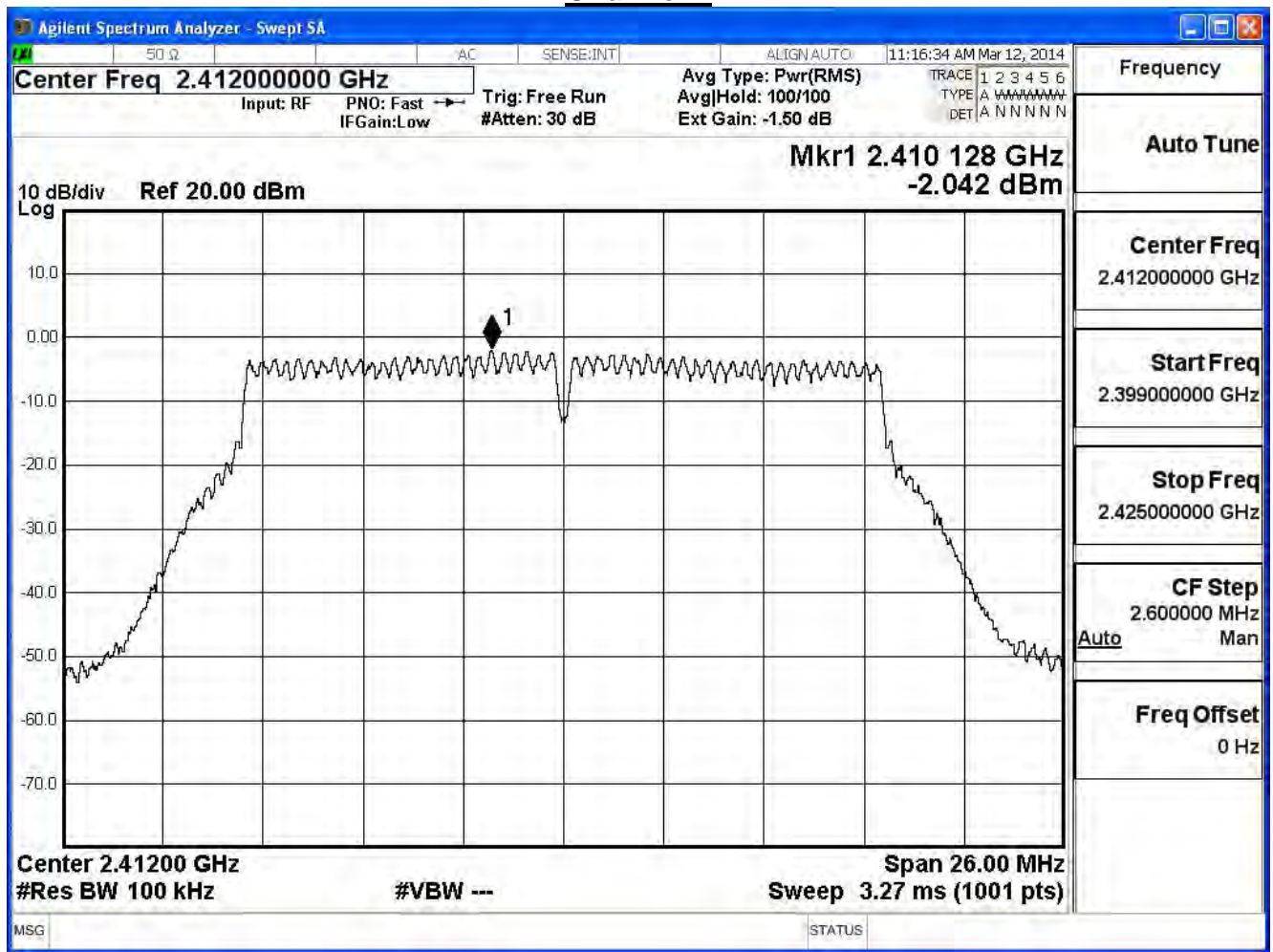
IEEE 802.11g (ANT2)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-2.042	-17.242	≤ 7.32	Pass
6	2437	3.897	-11.303	≤ 7.32	Pass
11	2462	-1.492	-16.692	≤ 7.32	Pass

Note:

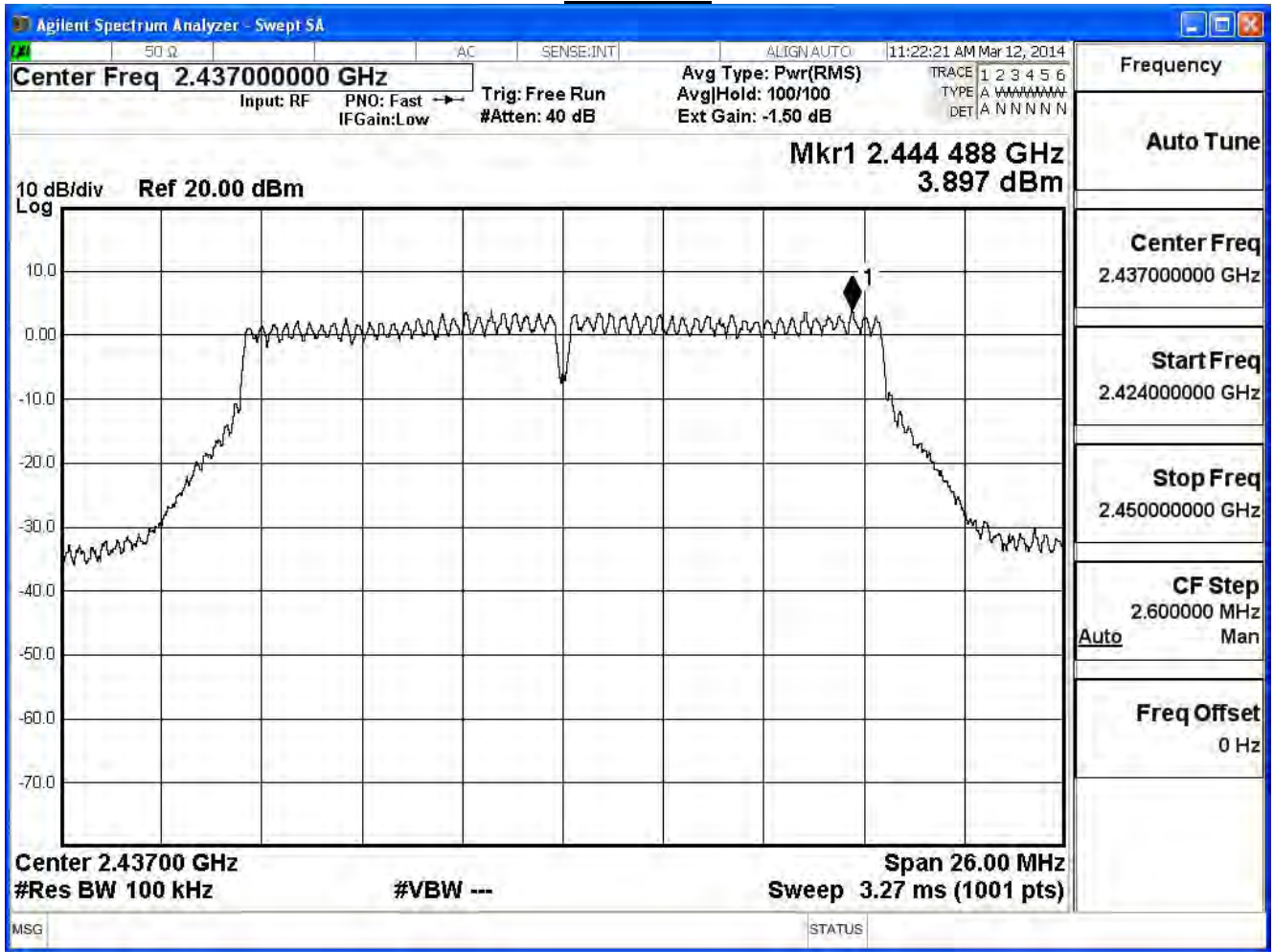
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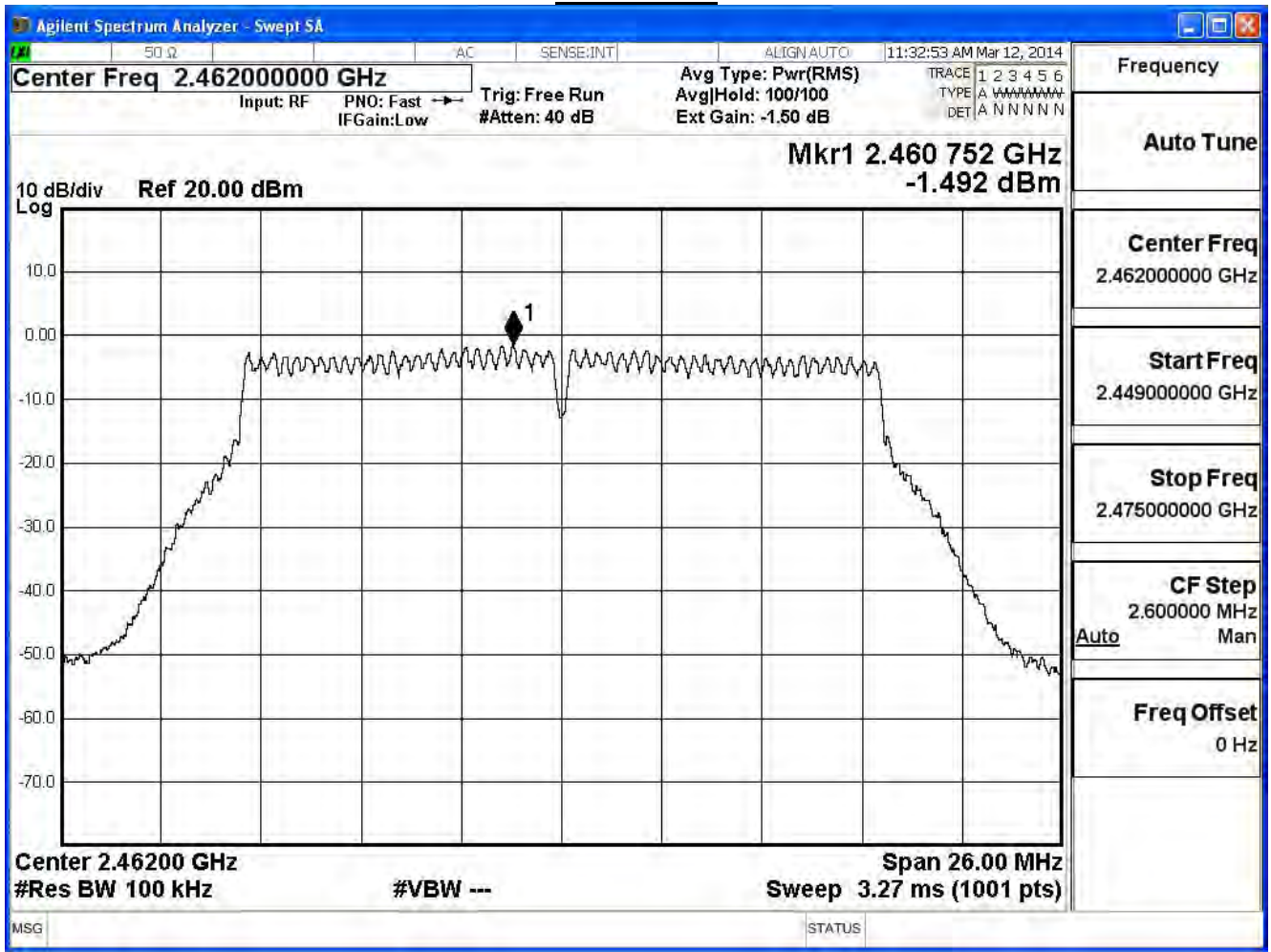
Channel 1



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	2014/03/12	Test Site	SR7

IEEE 802.11g (ANT0+1+2)				
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	-12.435	≤7.32	Pass
6	2437	-6.662	≤7.32	Pass
11	2462	-12.068	≤7.32	Pass

Note:

Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/03/12	Test Site	SR7

IEEE802.11n_20MHz_(ANT 0)

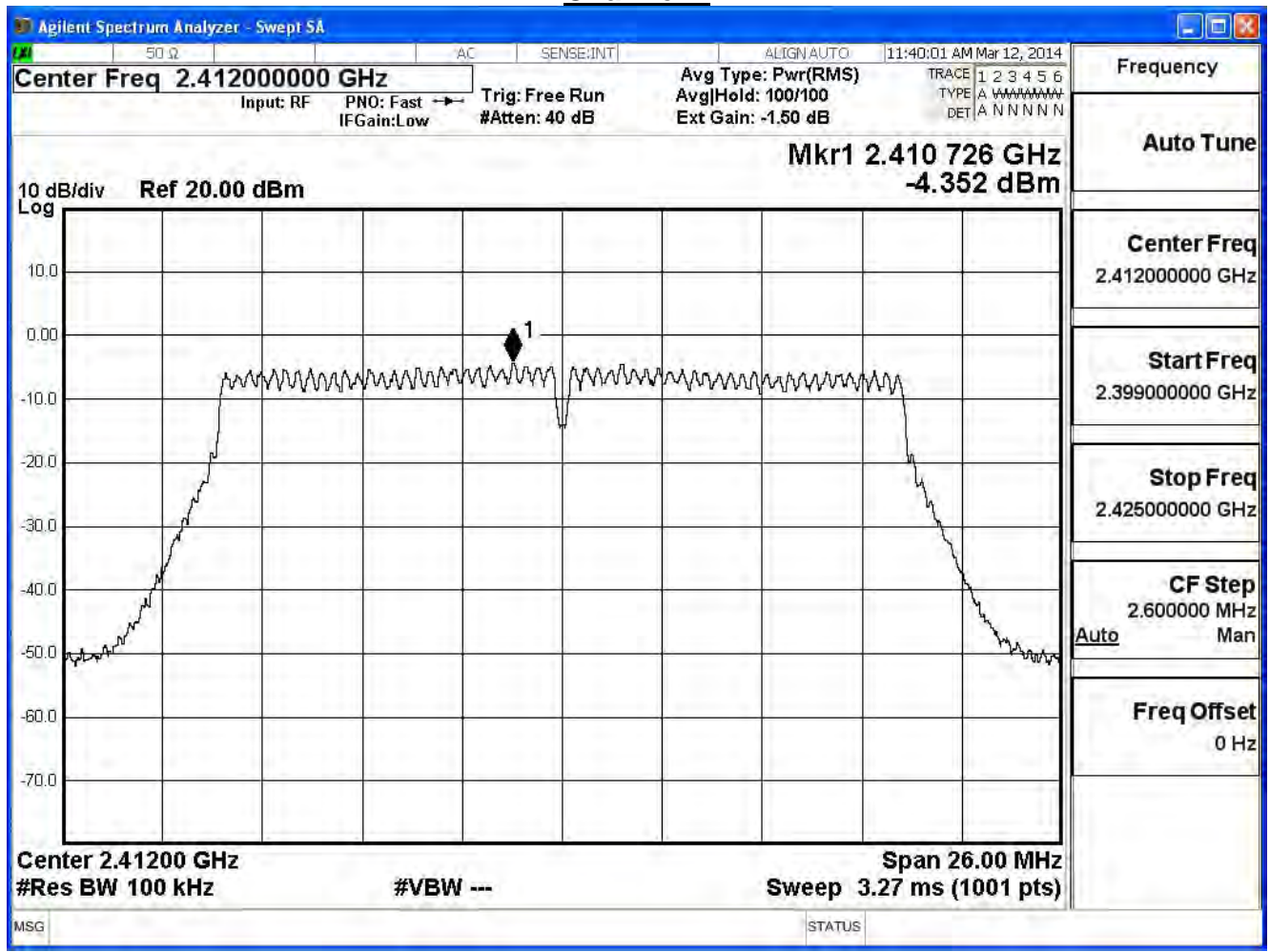
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-4.352	-19.552	≤ 7.32	Pass
6	2437	2.765	-12.435	≤ 7.32	Pass
11	2462	-2.574	-17.774	≤ 7.32	Pass

Note:

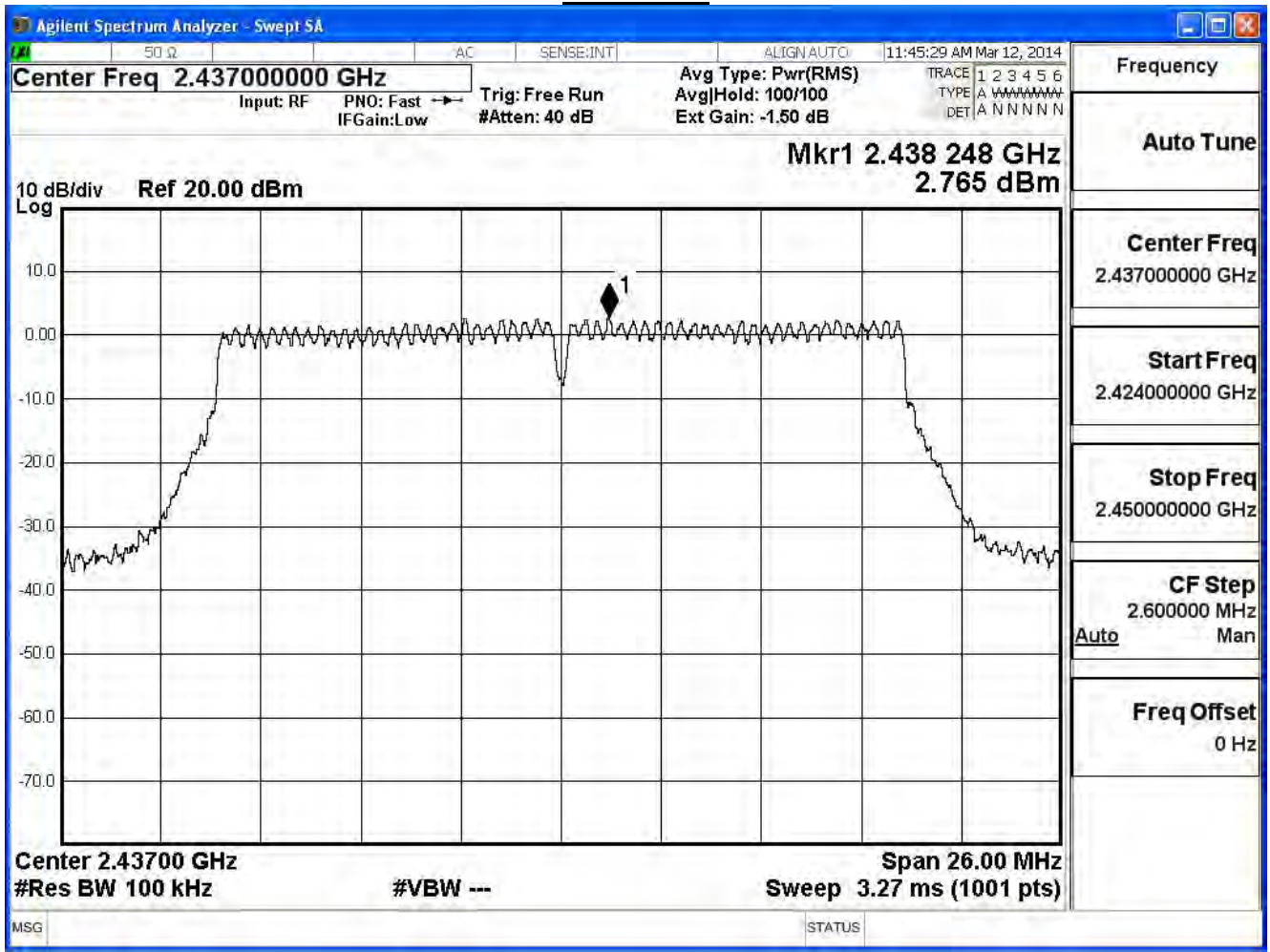
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

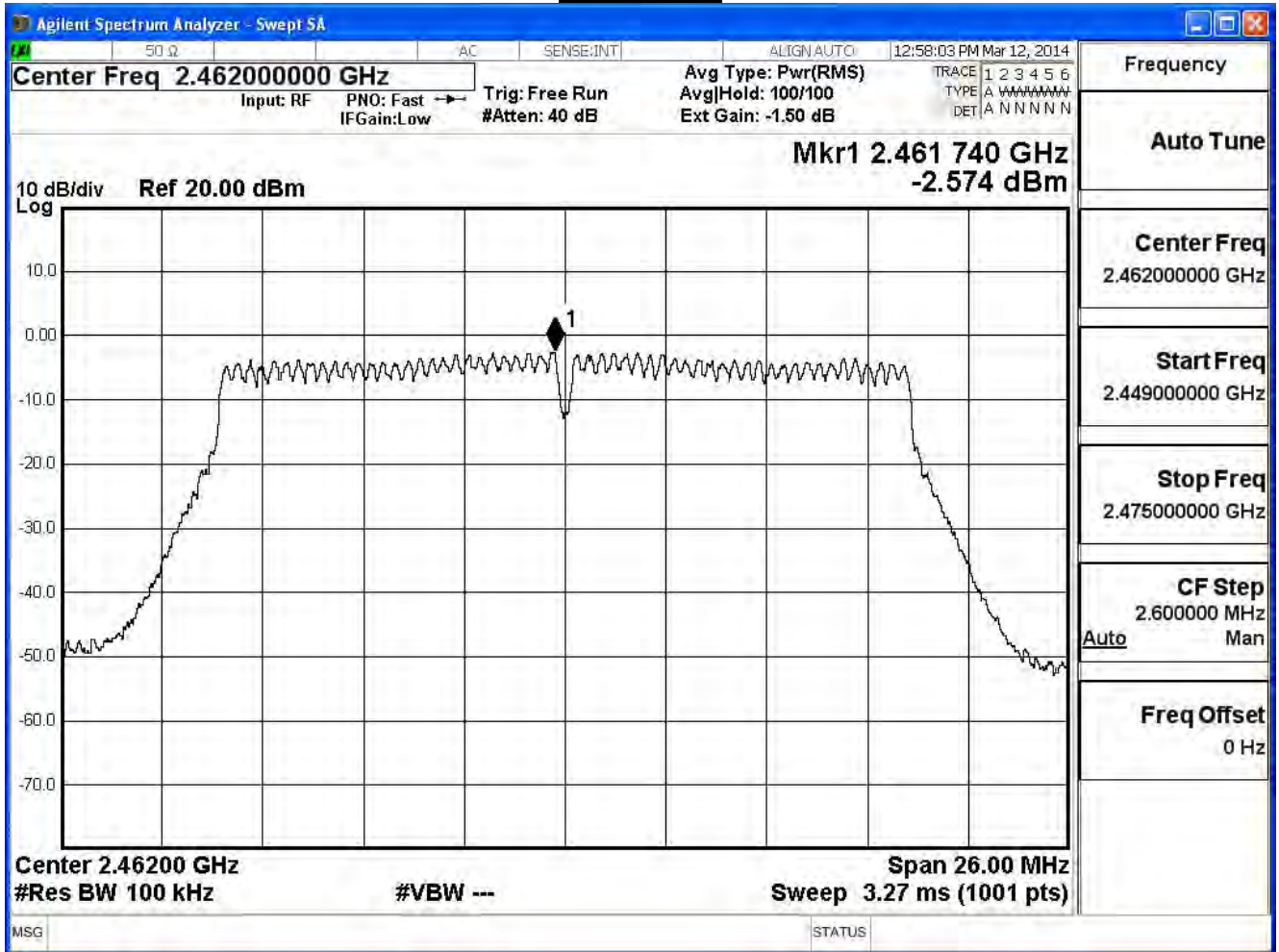
Channel 1



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	2014/03/12	Test Site	SR7

IEEE802.11n_20MHz_(ANT 1)

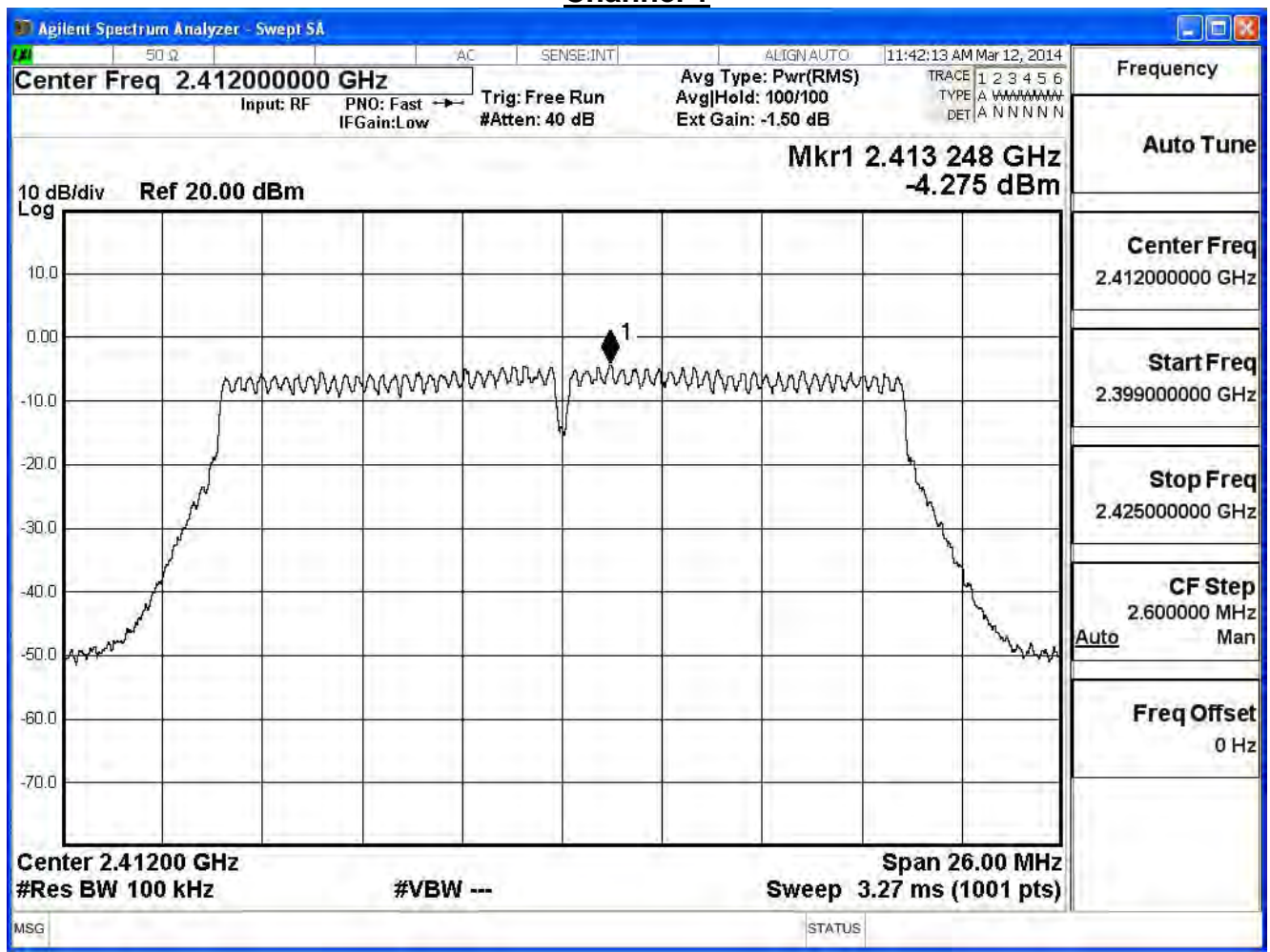
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-4.275	-19.475	≤ 7.32	Pass
6	2437	2.303	-12.897	≤ 7.32	Pass
11	2462	-2.782	-17.982	≤ 7.32	Pass

Note:

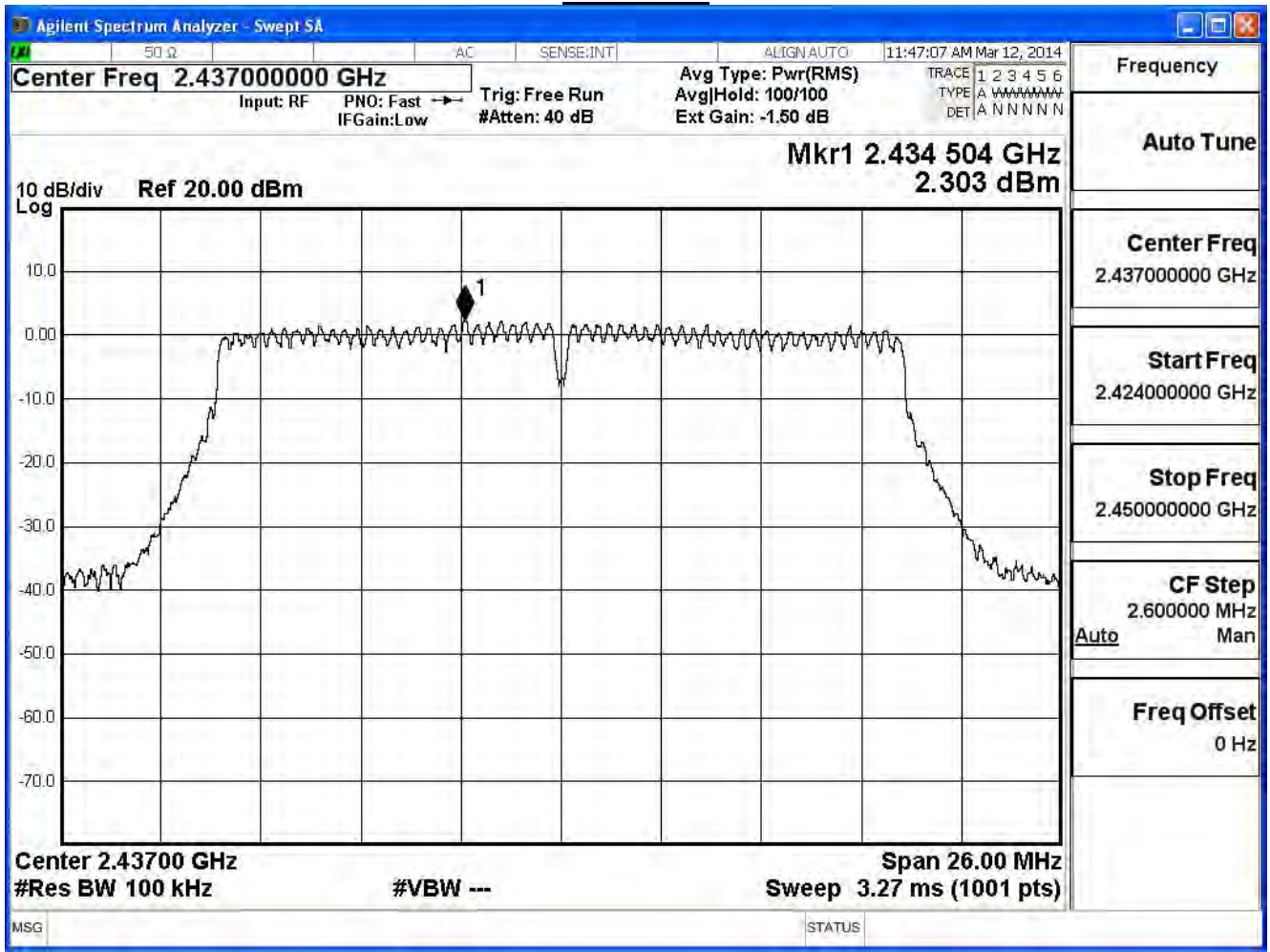
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Required Limit = $8\text{dBm} - (6.68\text{dBi} - 6\text{dB}) = 7.32\text{dBm}$

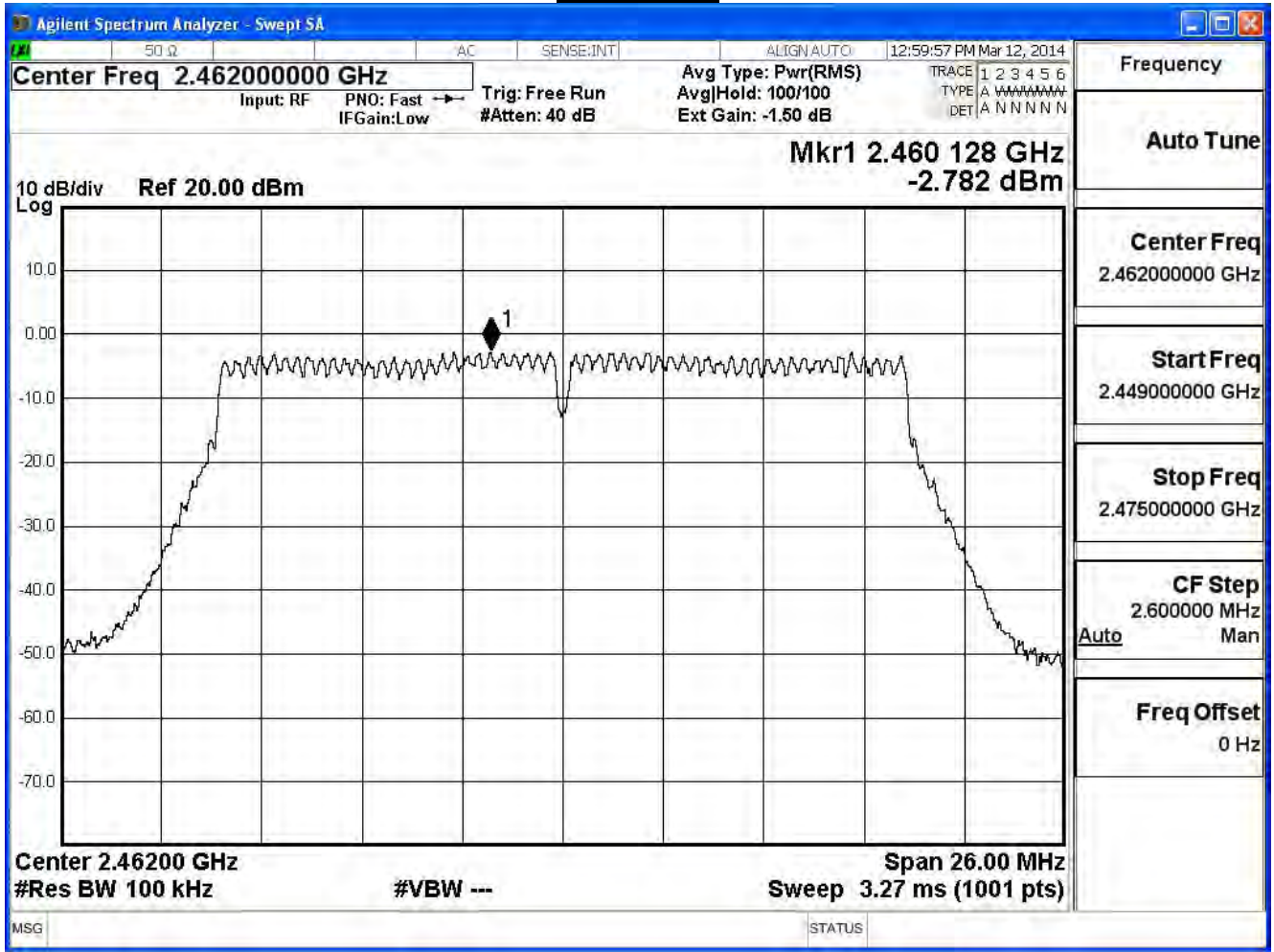
Channel 1



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	2014/03/12	Test Site	SR7

IEEE802.11n_20MHz_(ANT 2)

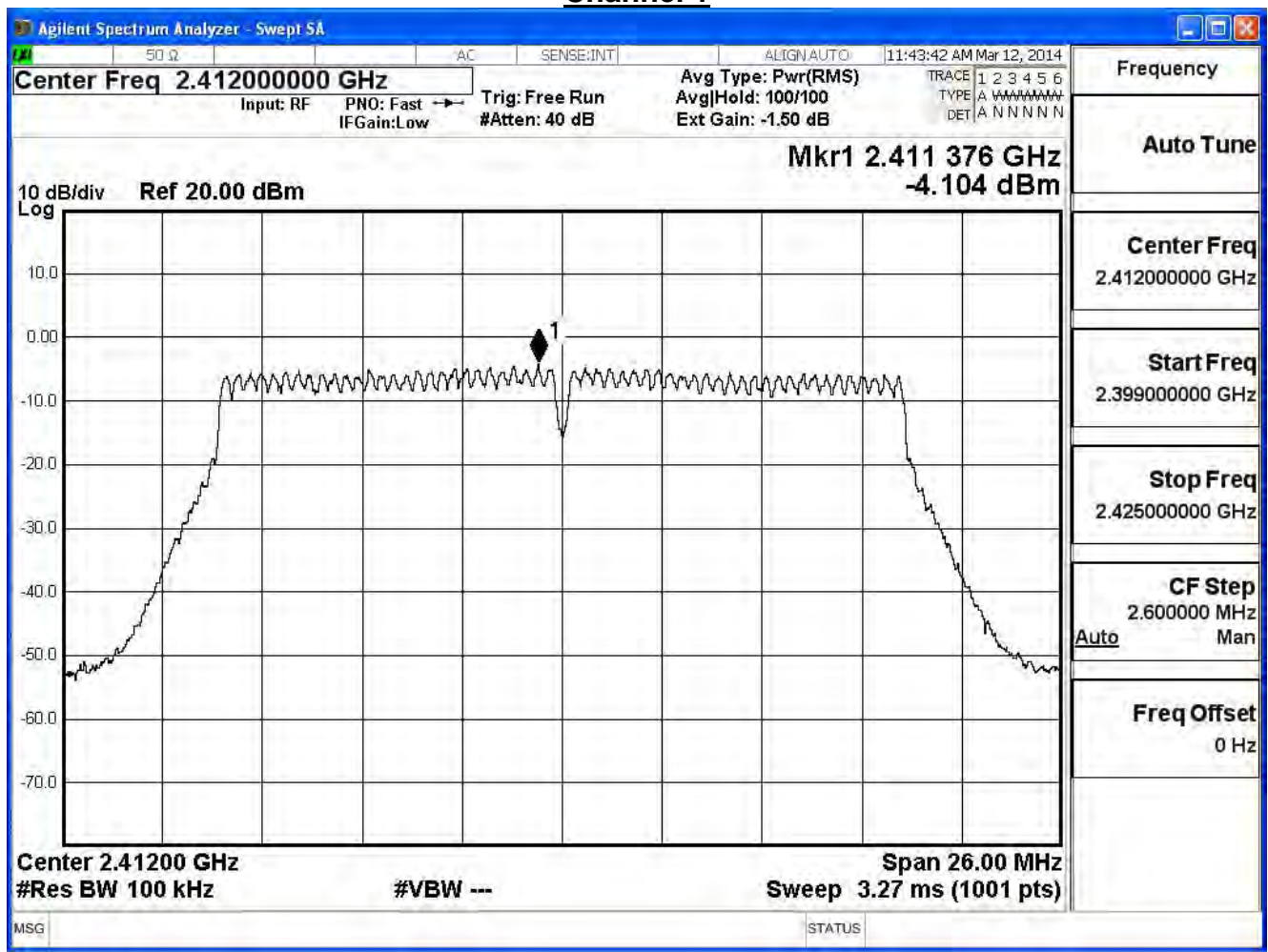
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-4.104	-19.304	≤ 7.32	Pass
6	2437	2.293	-12.907	≤ 7.32	Pass
11	2462	-2.800	-18.000	≤ 7.32	Pass

Note:

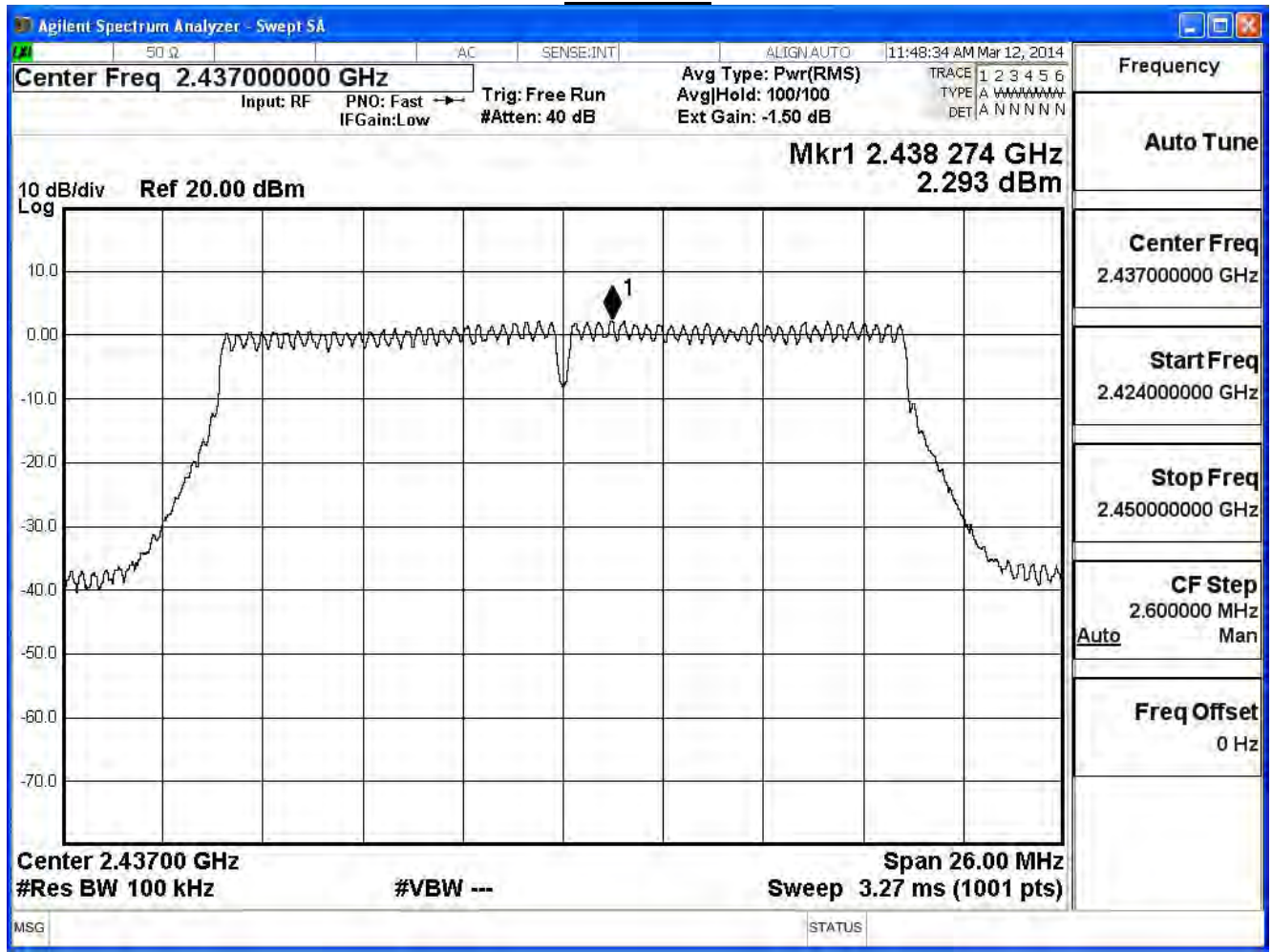
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

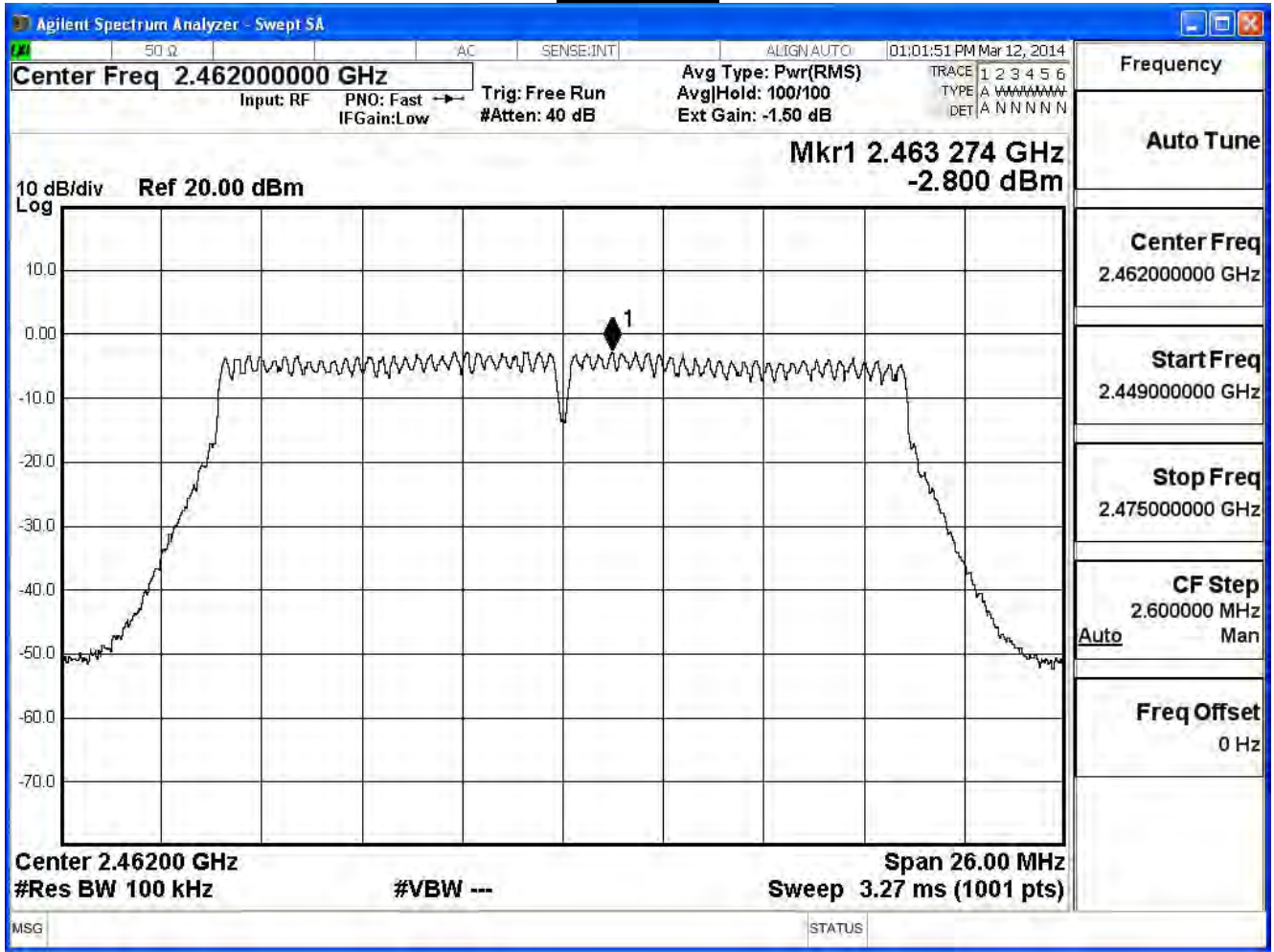
Channel 1



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	2014/03/12	Test Site	SR7

IEEE802.11n 20MHz (ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-14.671	≤ 7.32	Pass
6	2437	-7.969	≤ 7.32	Pass
11	2462	-13.146	≤ 7.32	Pass

Note:

Directional Antenna Gain = $10\log(3) + \max \text{Gain} = 6.68\text{dBi}$

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

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/03/12	Test Site	SR7

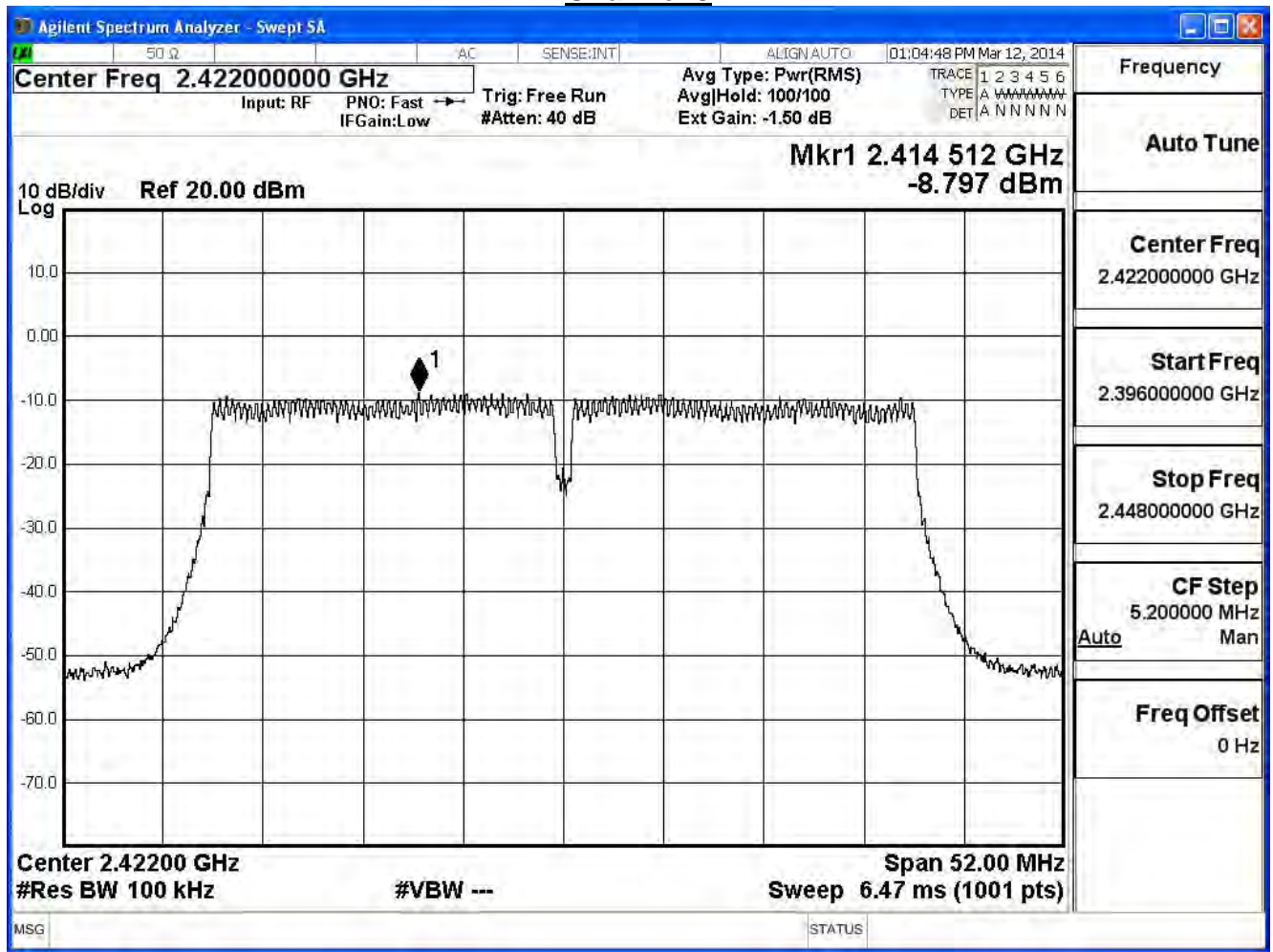
IEEE 802.11n_40MHz (ANT 0)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
3	2422	-8.797	-23.997	≤ 7.32	Pass
6	2437	-4.913	-20.113	≤ 7.32	Pass
9	2452	-7.096	-22.296	≤ 7.32	Pass

Note:

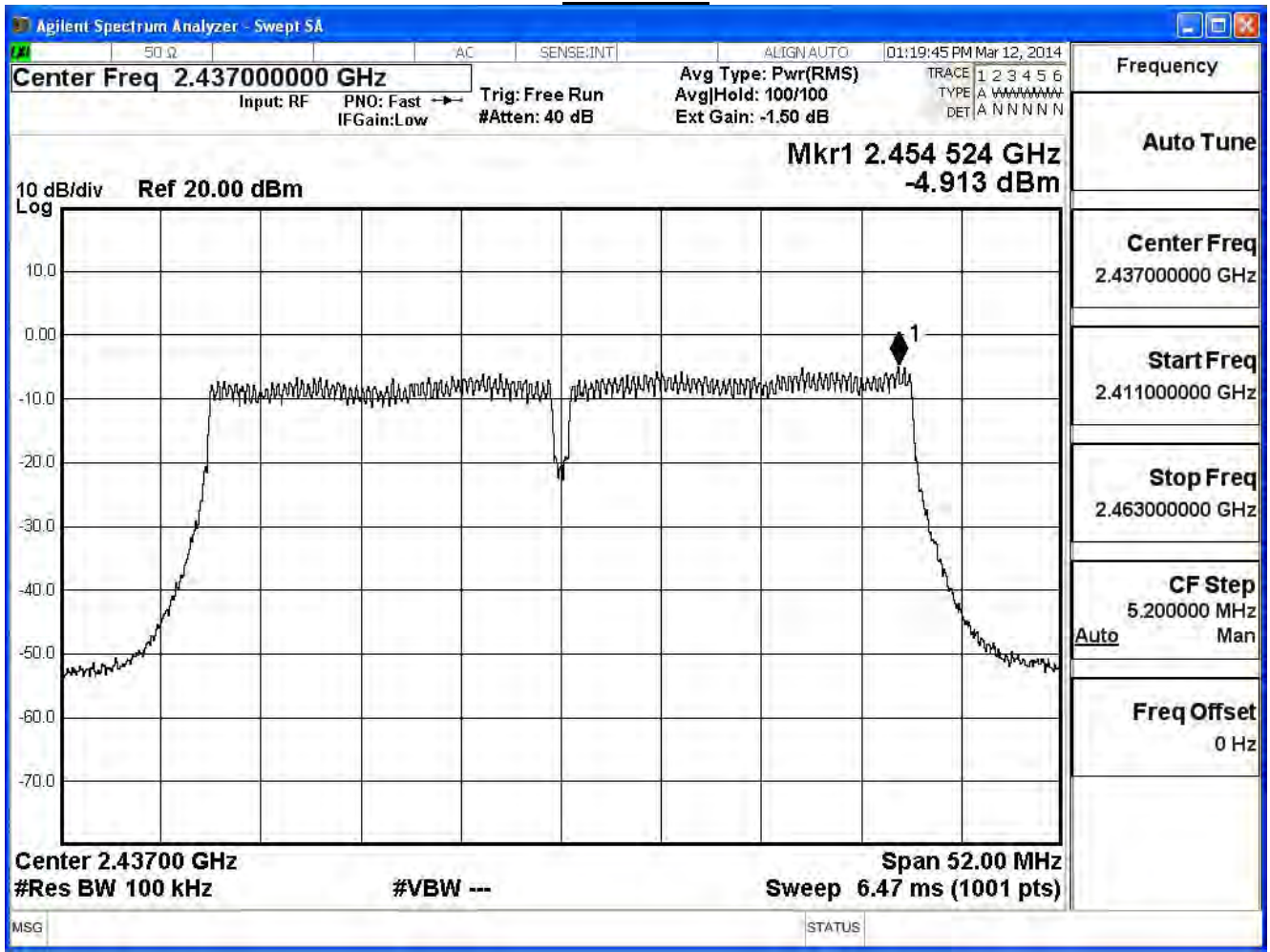
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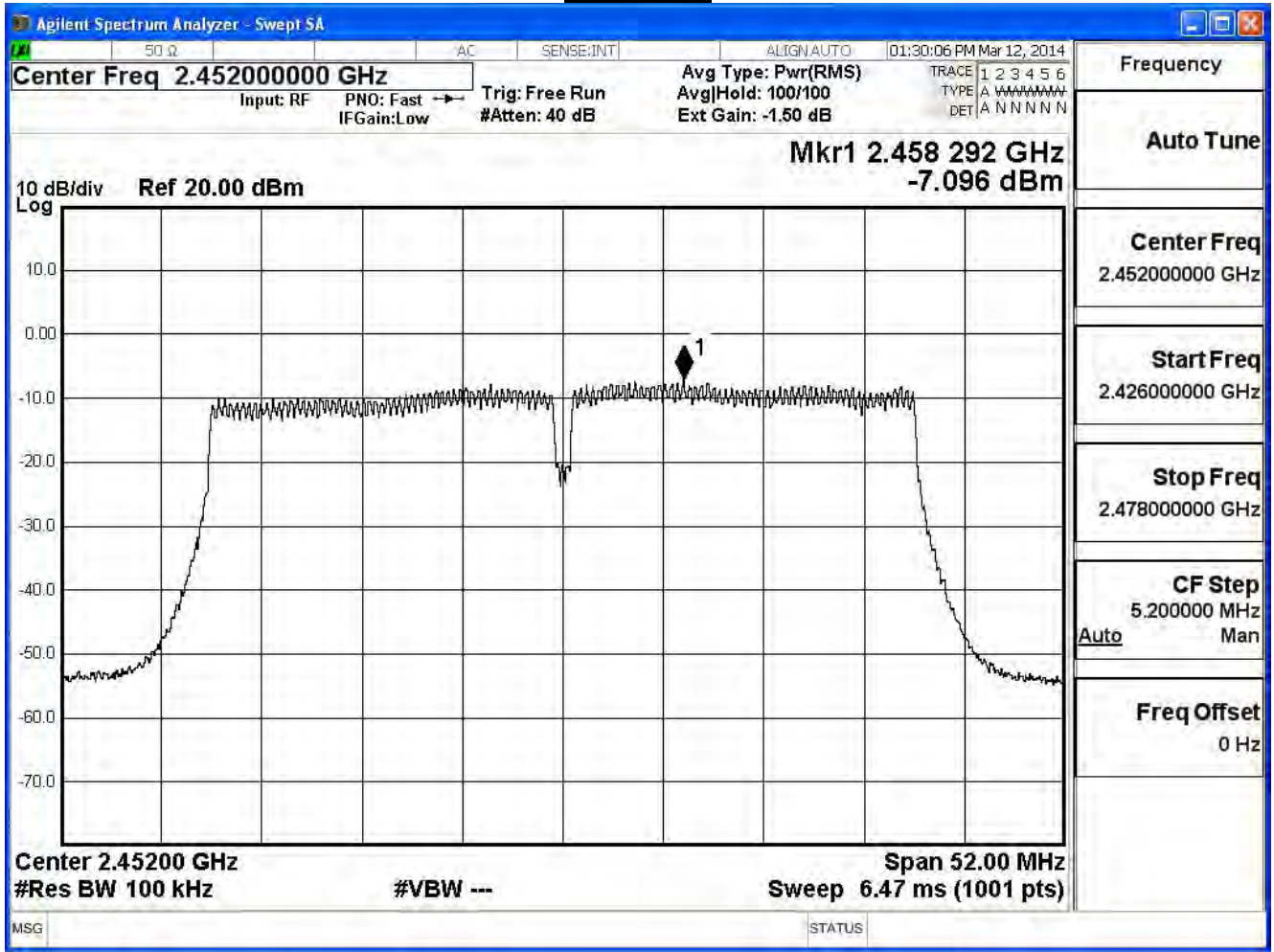
Channel 3



Channel 6



Channel 9



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/03/12	Test Site	SR7

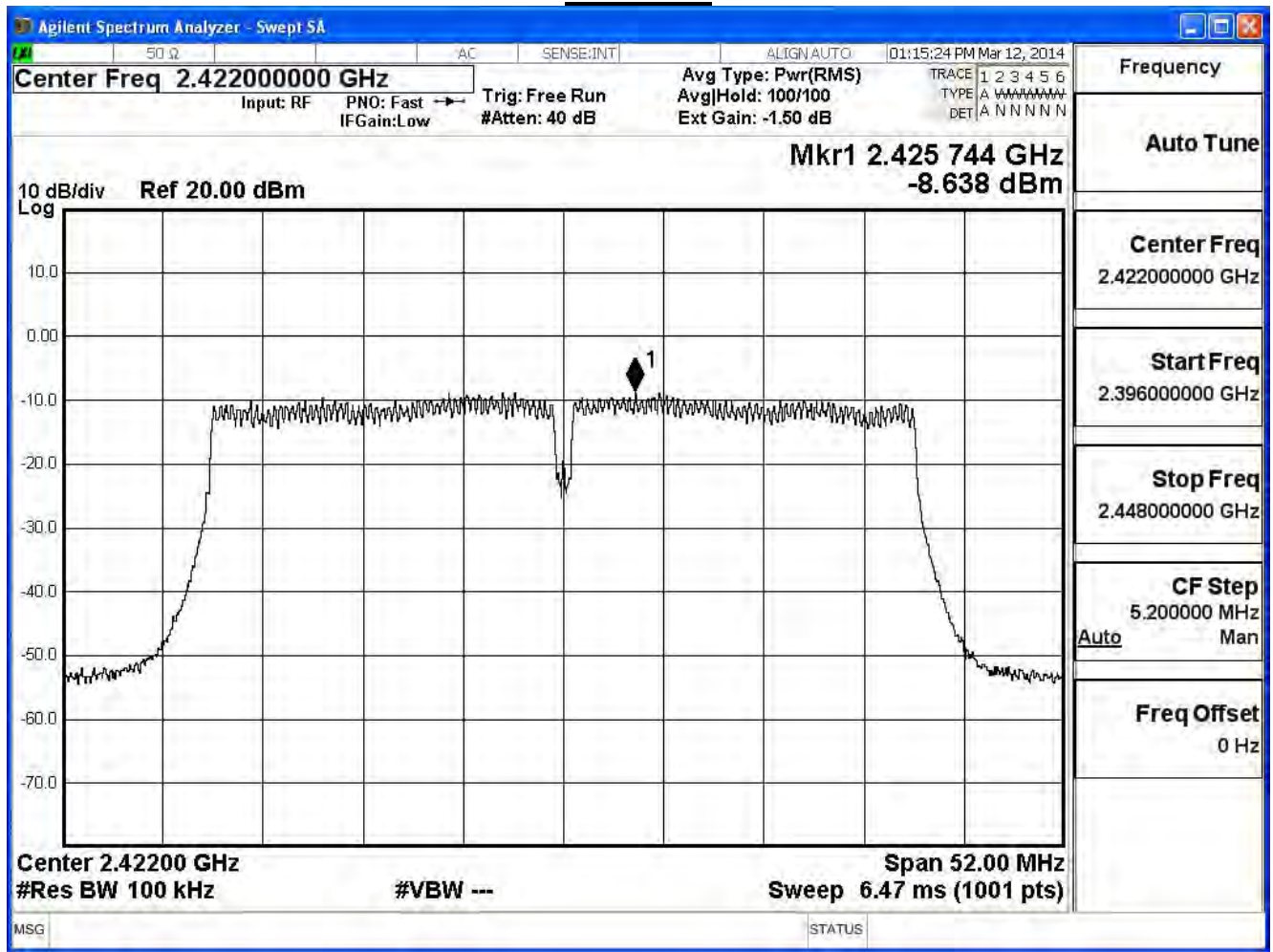
IEEE 802.11n_40MHz (ANT 1)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-8.638	-23.838	≤7.32	Pass
6	2437	-5.001	-20.201	≤7.32	Pass
9	2452	-7.502	-22.702	≤7.32	Pass

Note:

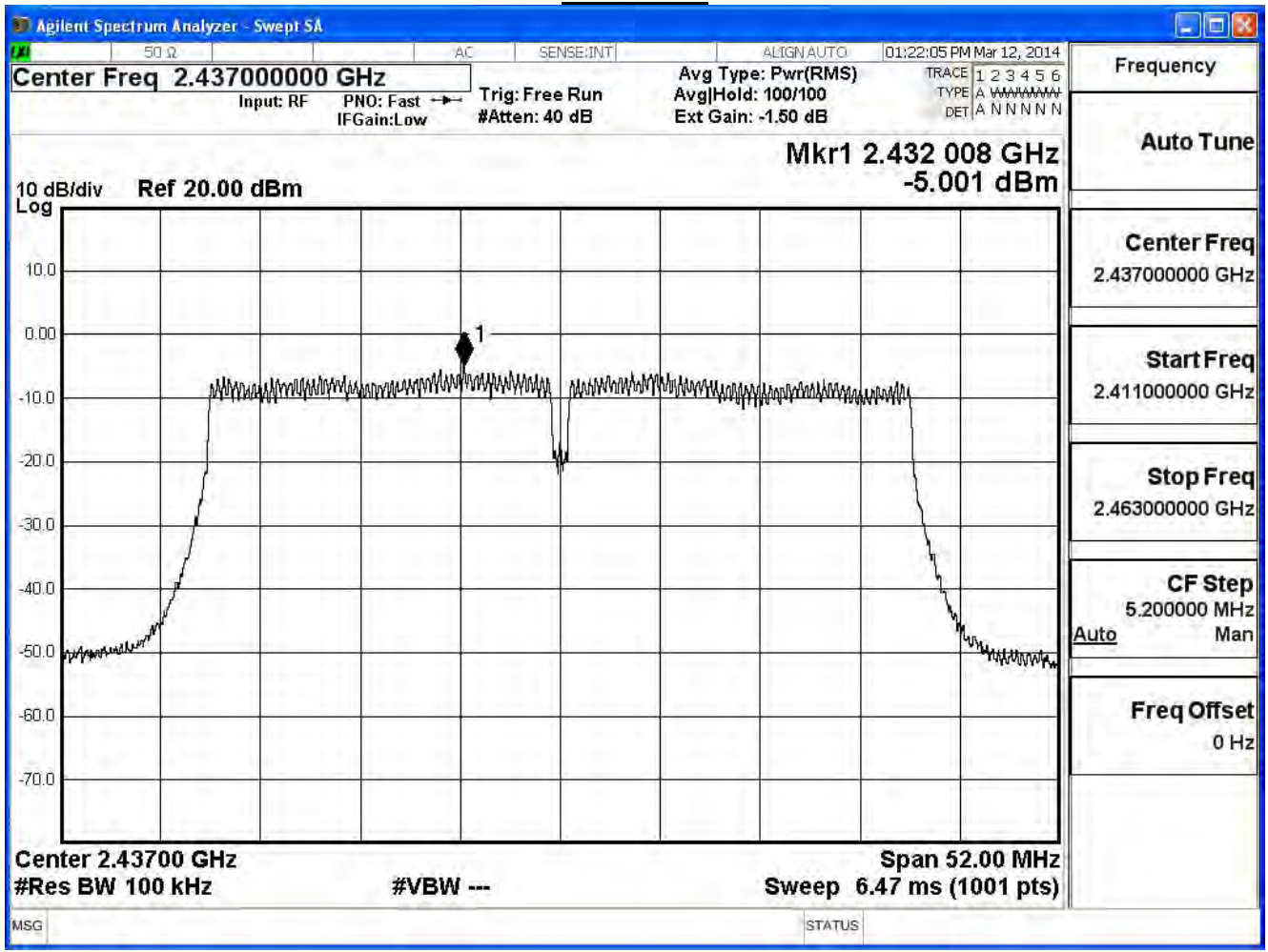
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Required Limit = $8\text{dBm} - (6.68\text{dBi} - 6\text{dB}) = 7.32\text{dBm}$

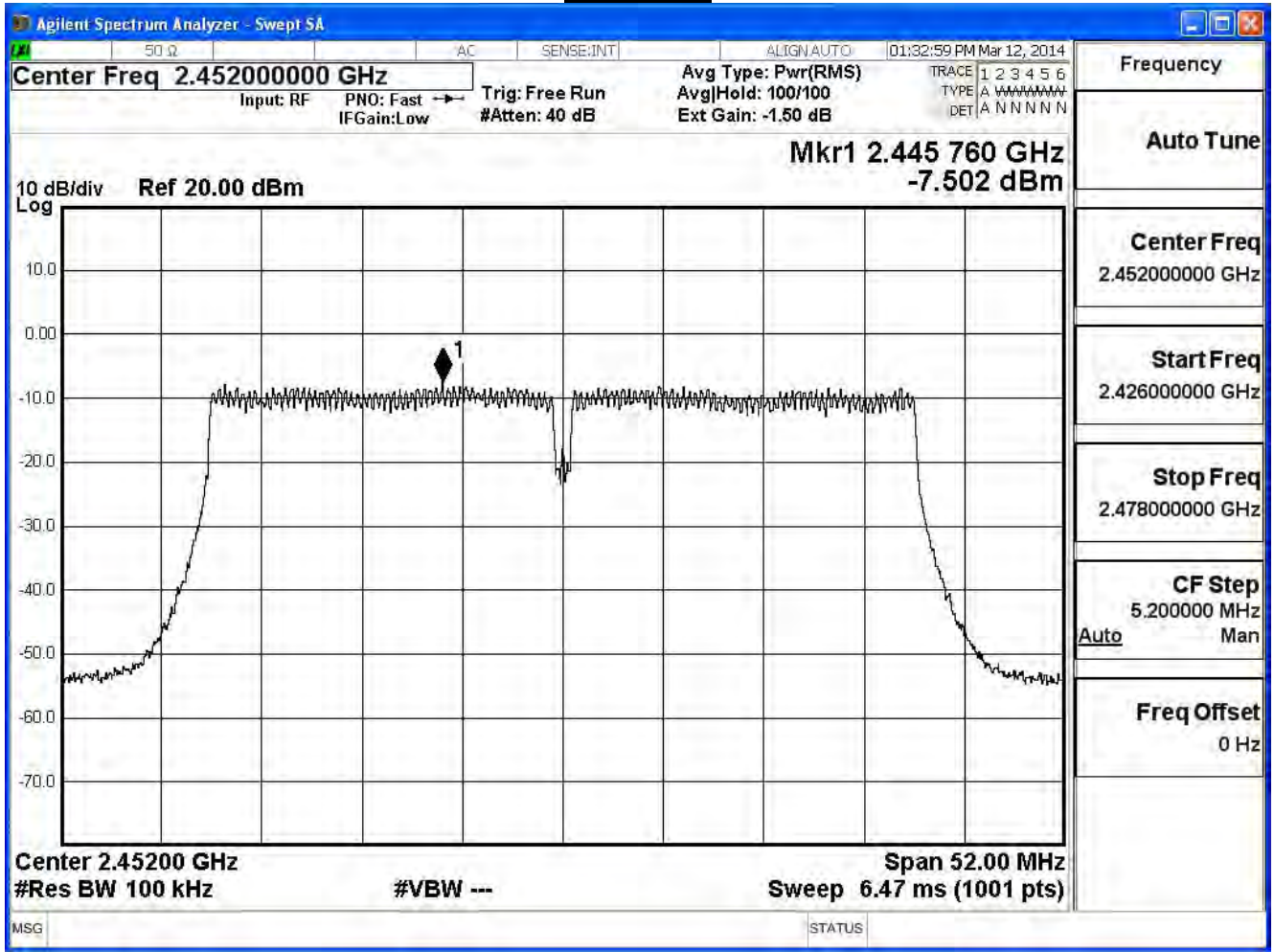
Channel 3



Channel 6



Channel 9



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/03/12	Test Site	SR7

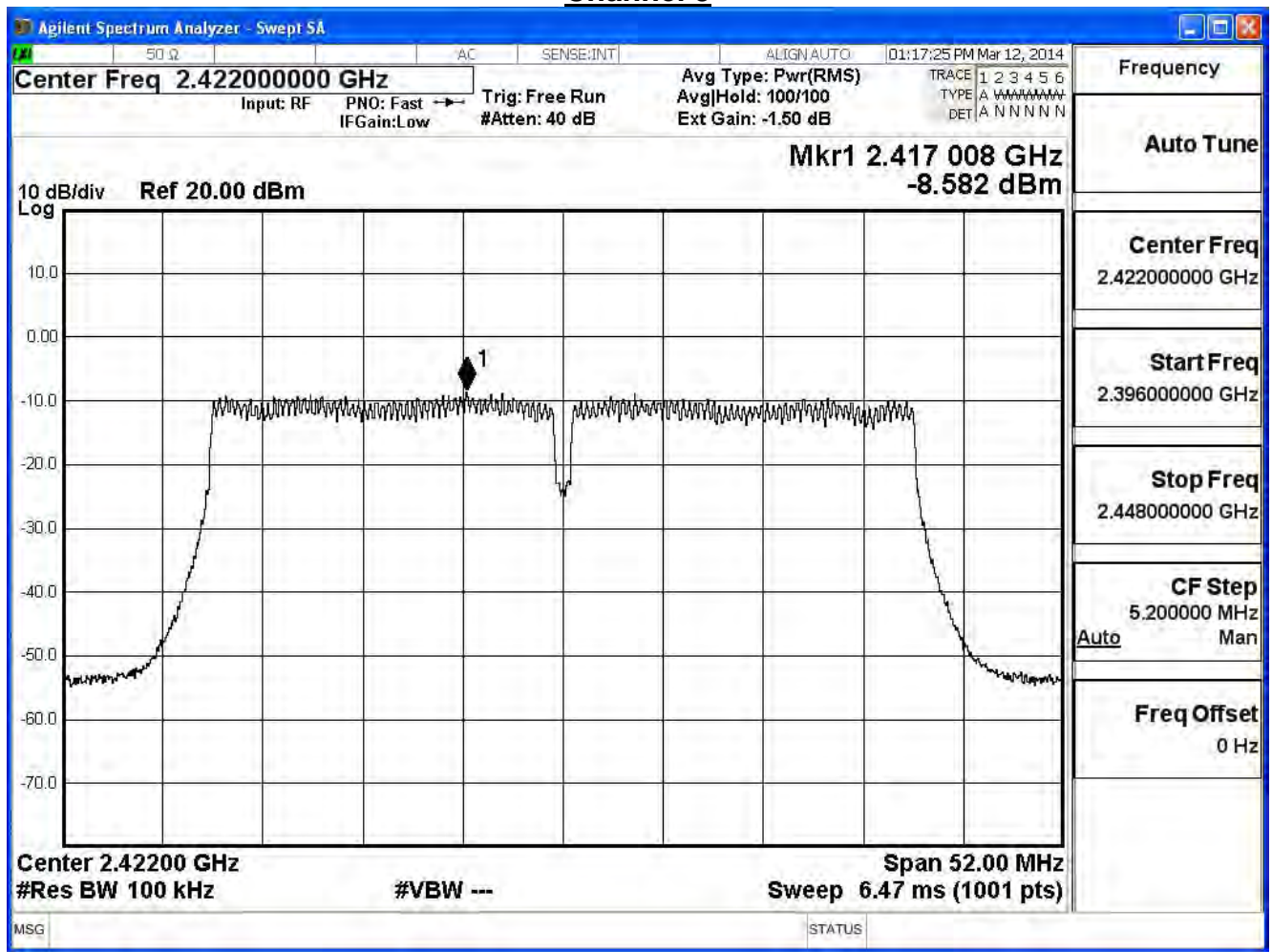
IEEE 802.11n_40MHz (ANT 2)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-8.582	-23.782	≤ 7.32	Pass
6	2437	-5.296	-20.496	≤ 7.32	Pass
9	2452	-7.367	-22.567	≤ 7.32	Pass

Note:

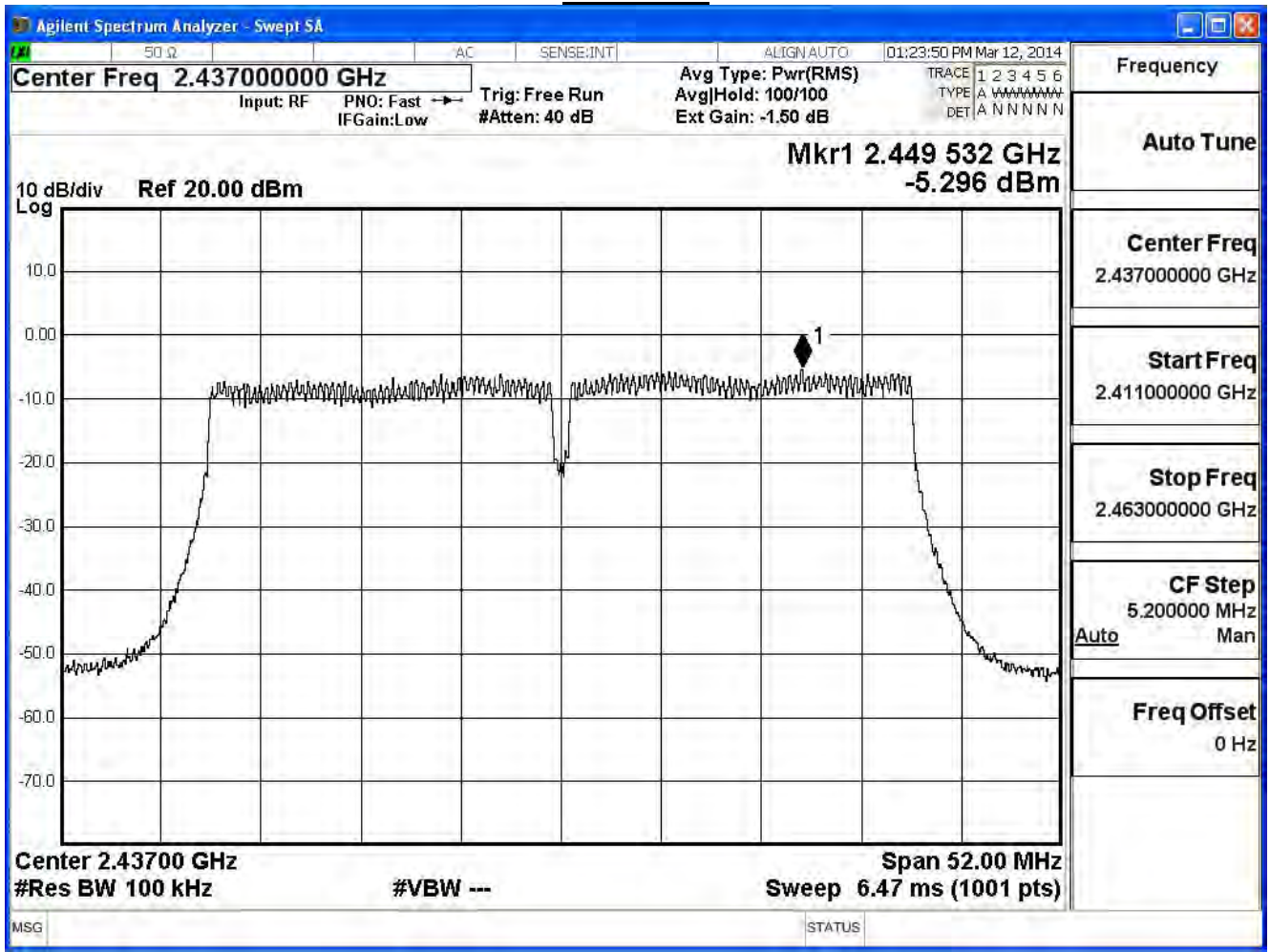
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Required Limit = $8\text{dBm} - (6.68\text{dBi} - 6\text{dB}) = 7.32\text{dBm}$

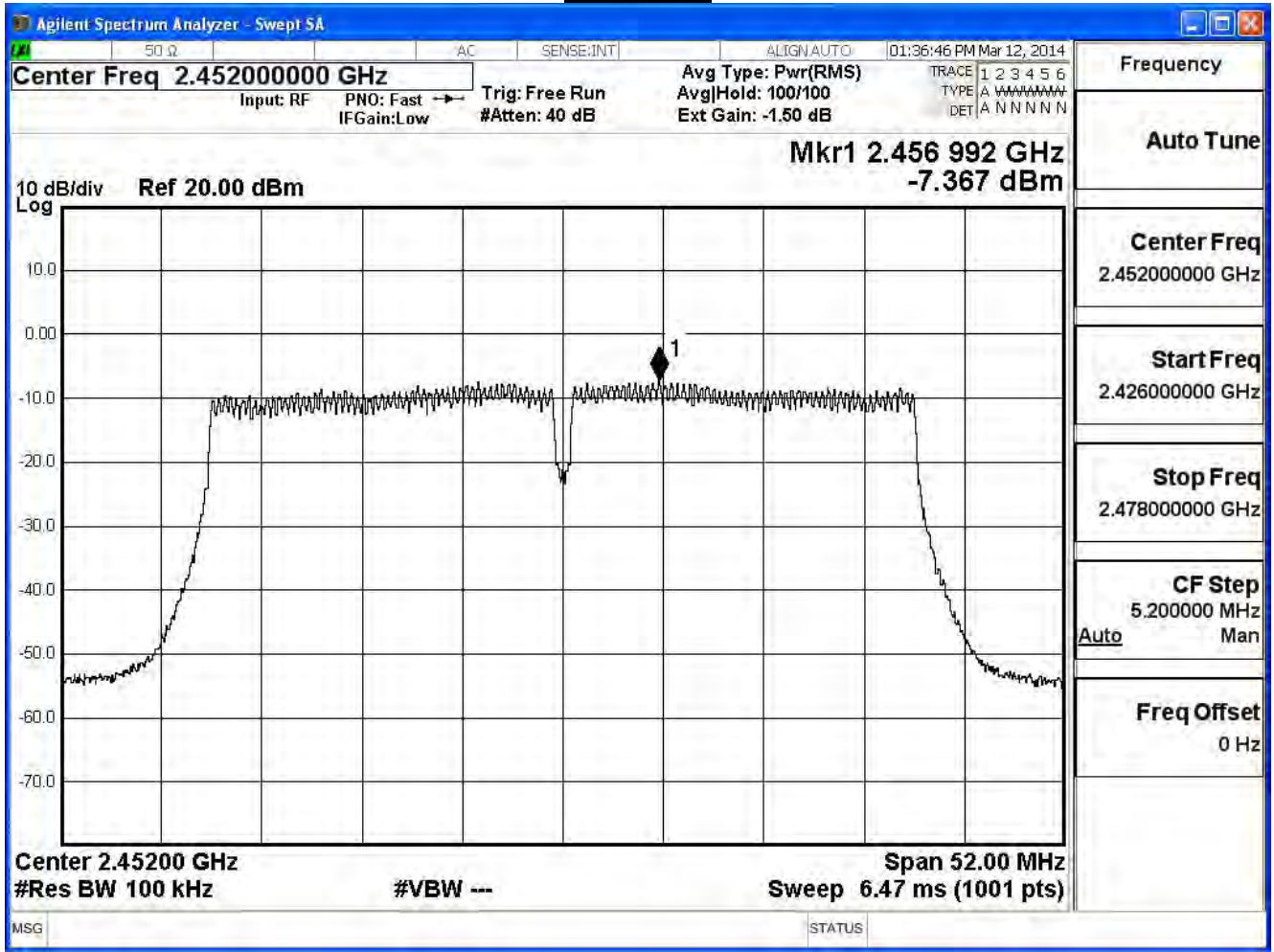
Channel 3



Channel 6



Channel 9



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/03/12	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-19.100	≤ 7.32	Pass
6	2437	-15.496	≤ 7.32	Pass
9	2452	-17.747	≤ 7.32	Pass

Note:

Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

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Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

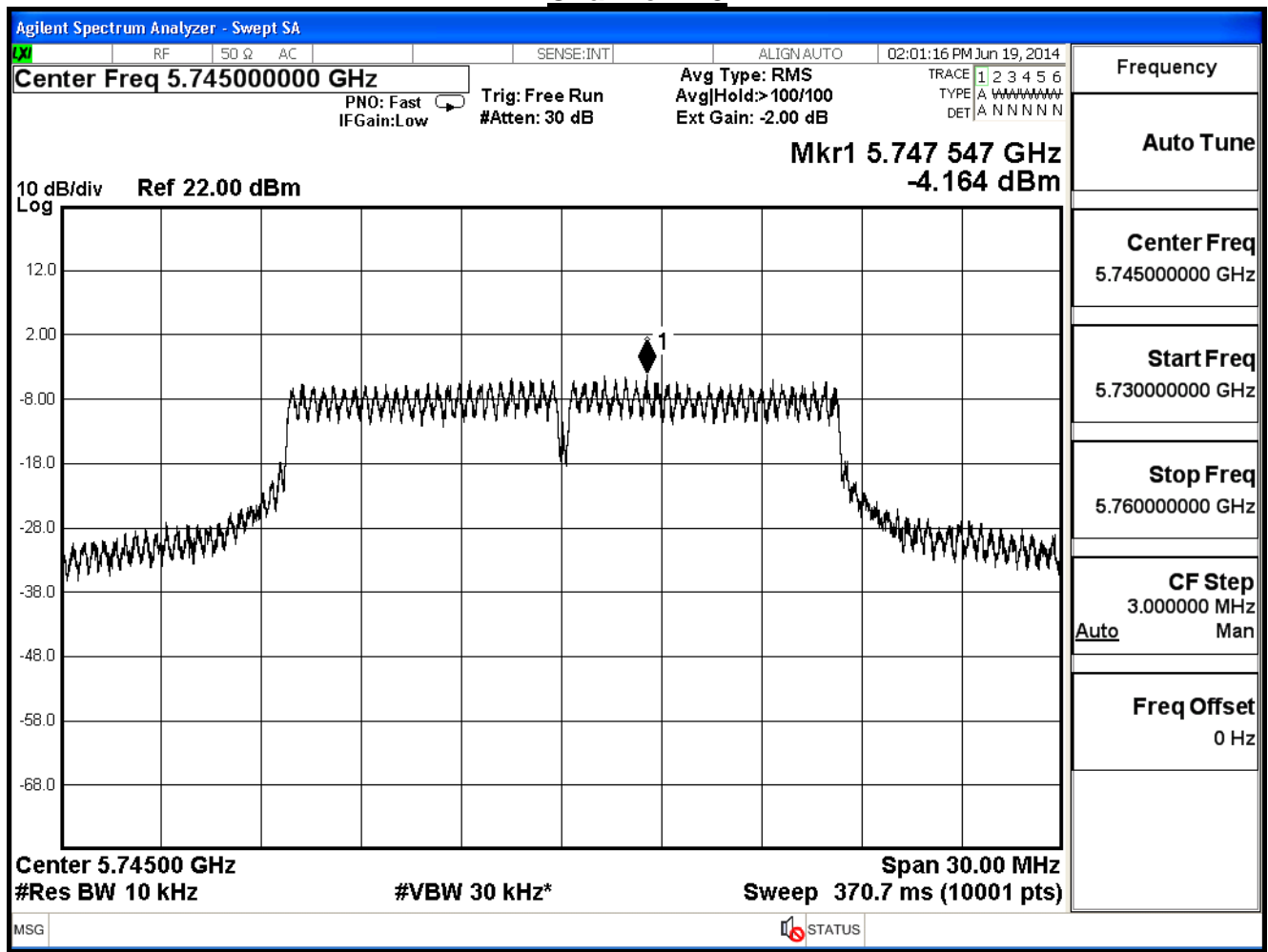
IEEE 802.11a (ANT0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-4.164	≤ 5.19	Pass
157	5785	-3.584	≤ 5.19	Pass
165	5825	-3.844	≤ 5.19	Pass

Note:

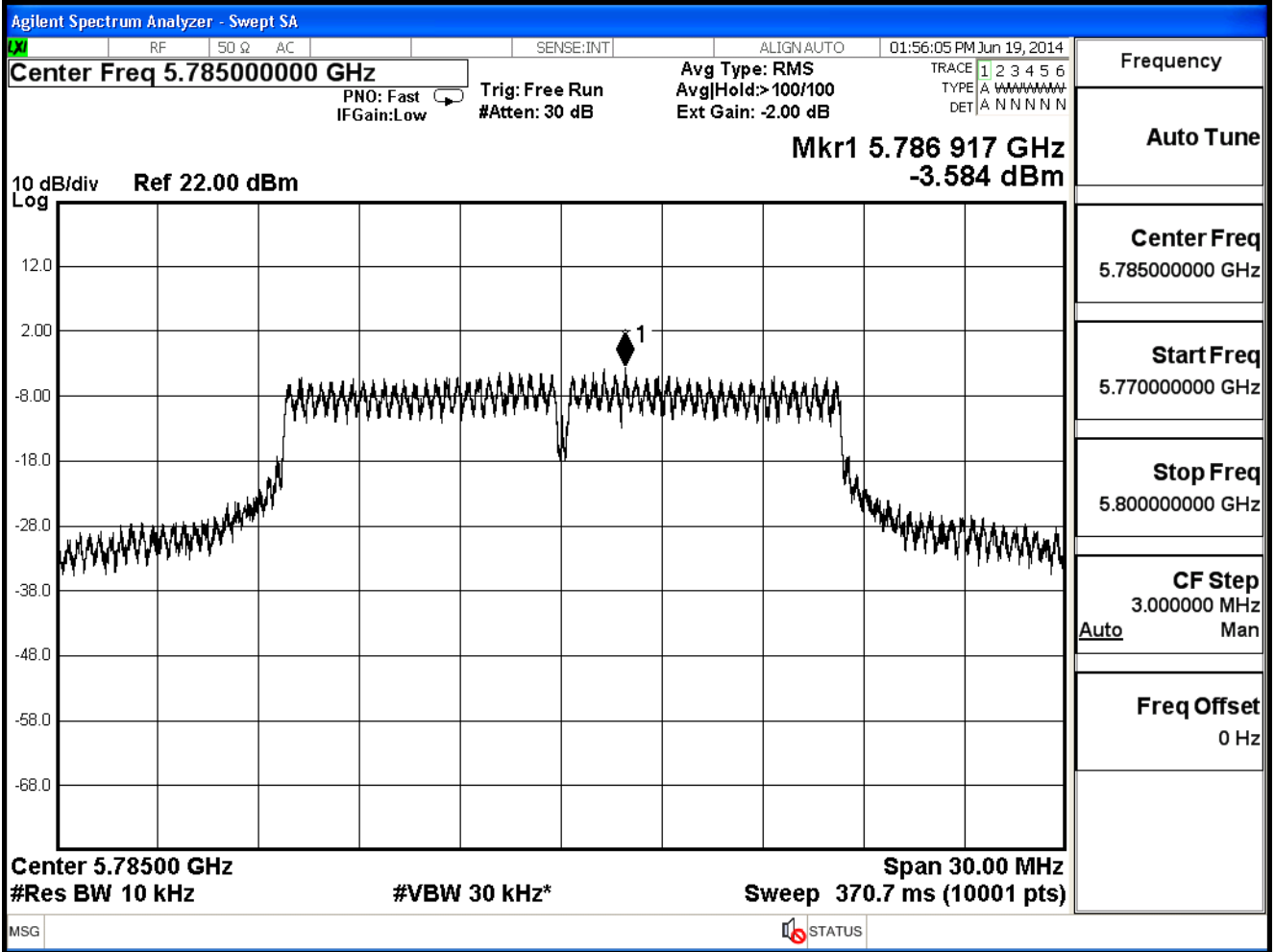
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 9.21\text{dBi}$

Required Limit = $8\text{dBm} - (9.21\text{dBi} - 6\text{dB}) = 4.79\text{dBm}$

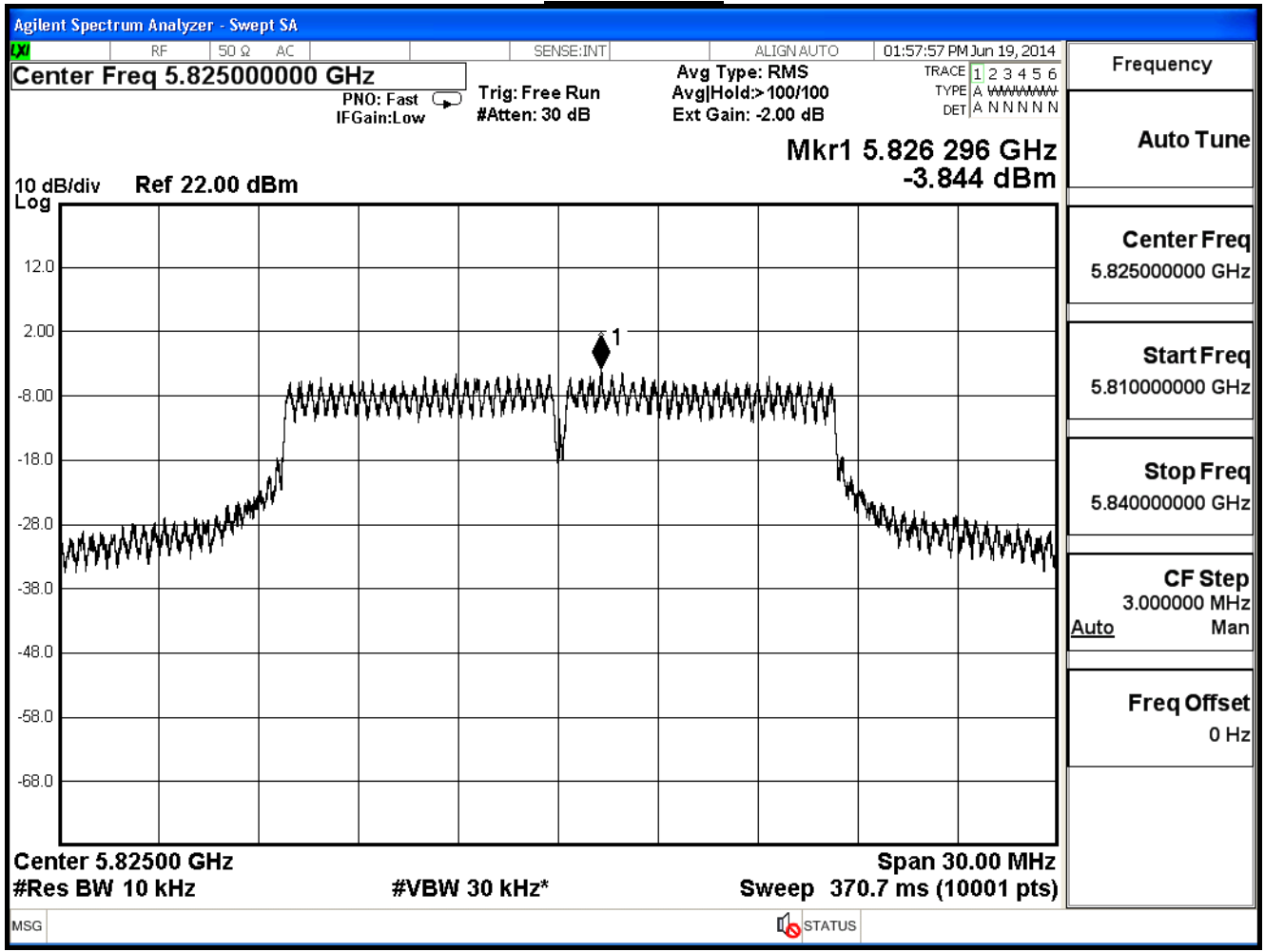
Channel 149



Channel 157



Channel 165



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

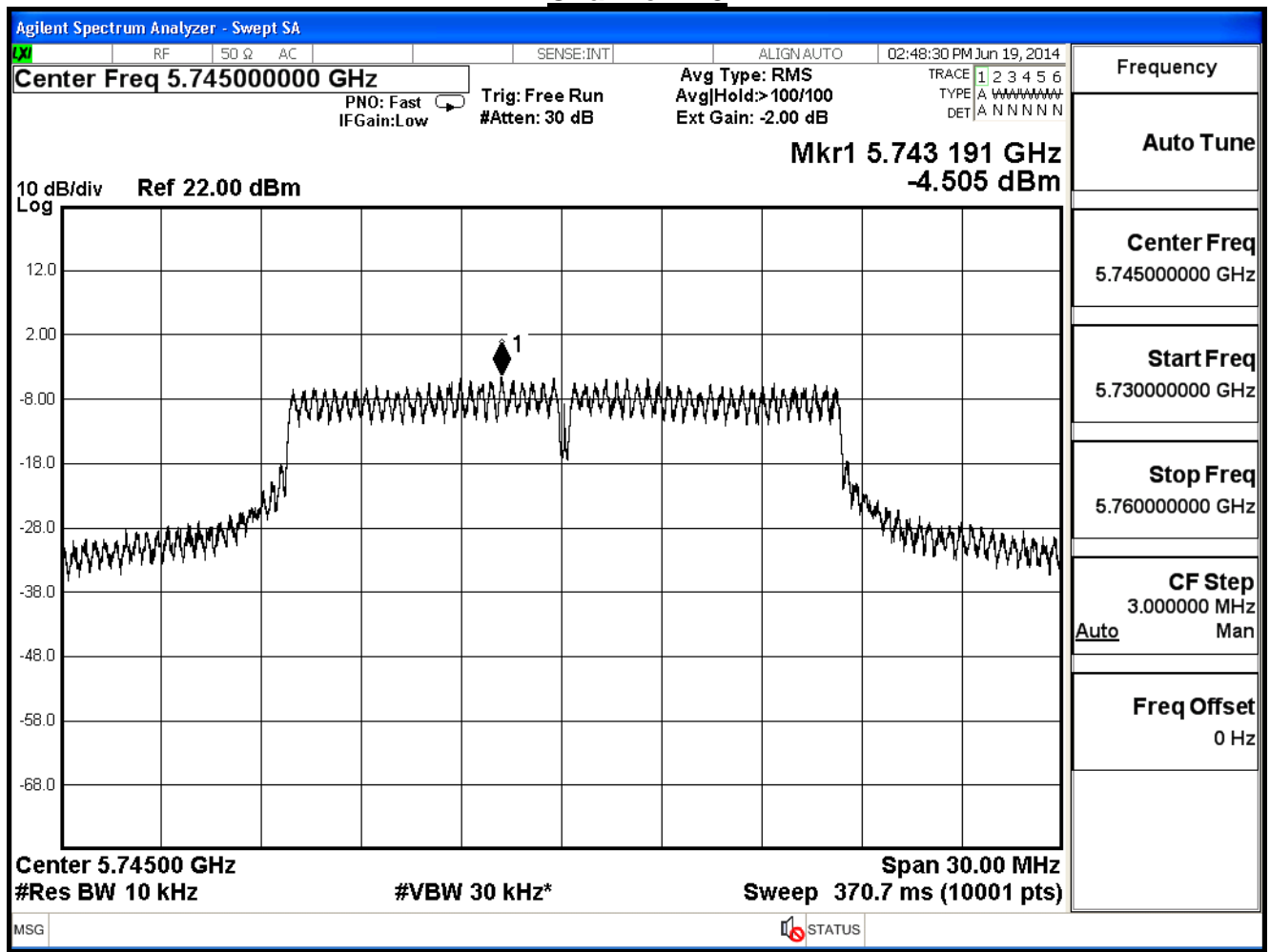
IEEE 802.11a (ANT1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-4.505	≤ 5.19	Pass
157	5785	-3.821	≤ 5.19	Pass
165	5825	-4.284	≤ 5.19	Pass

Note:

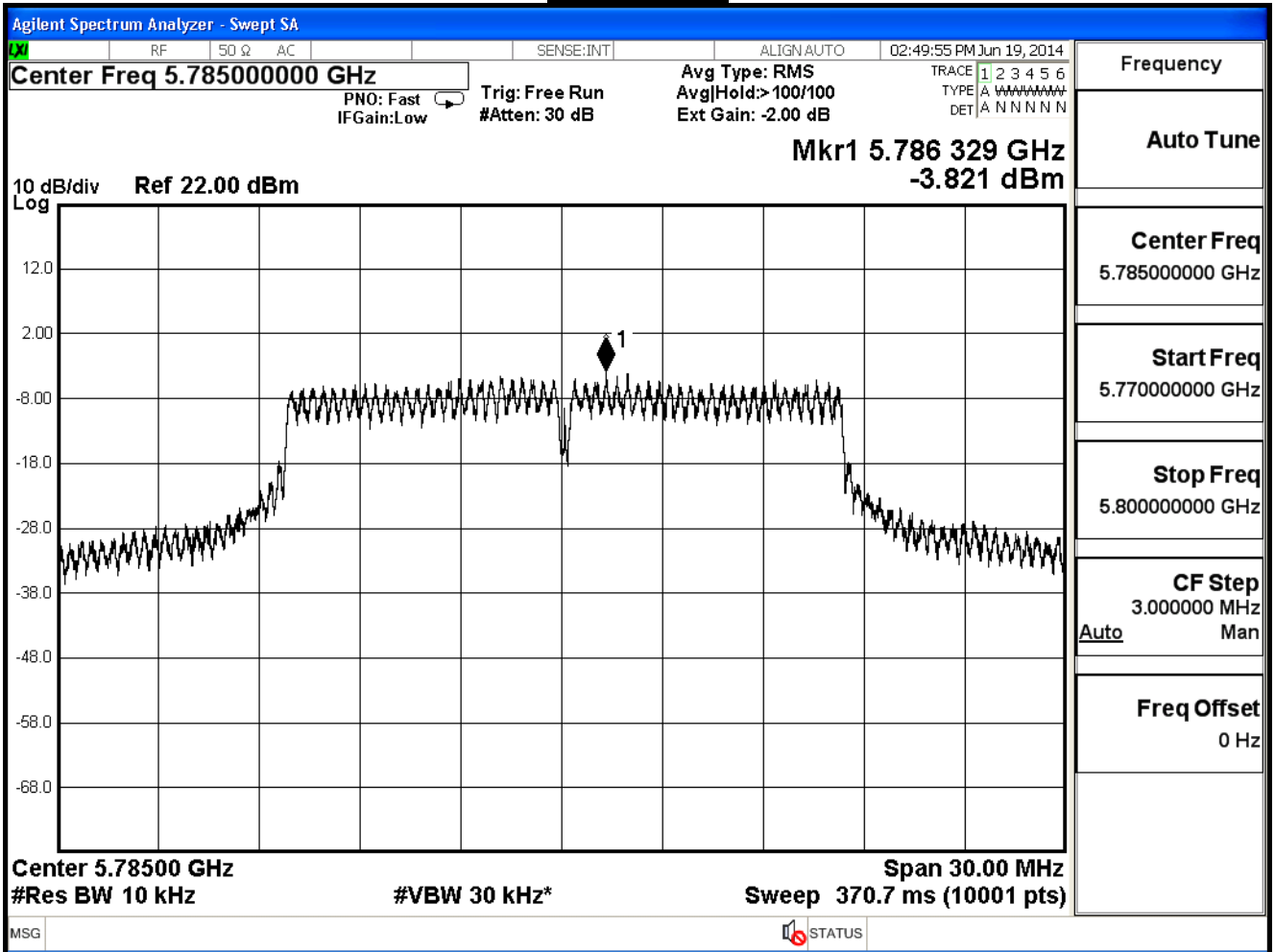
Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

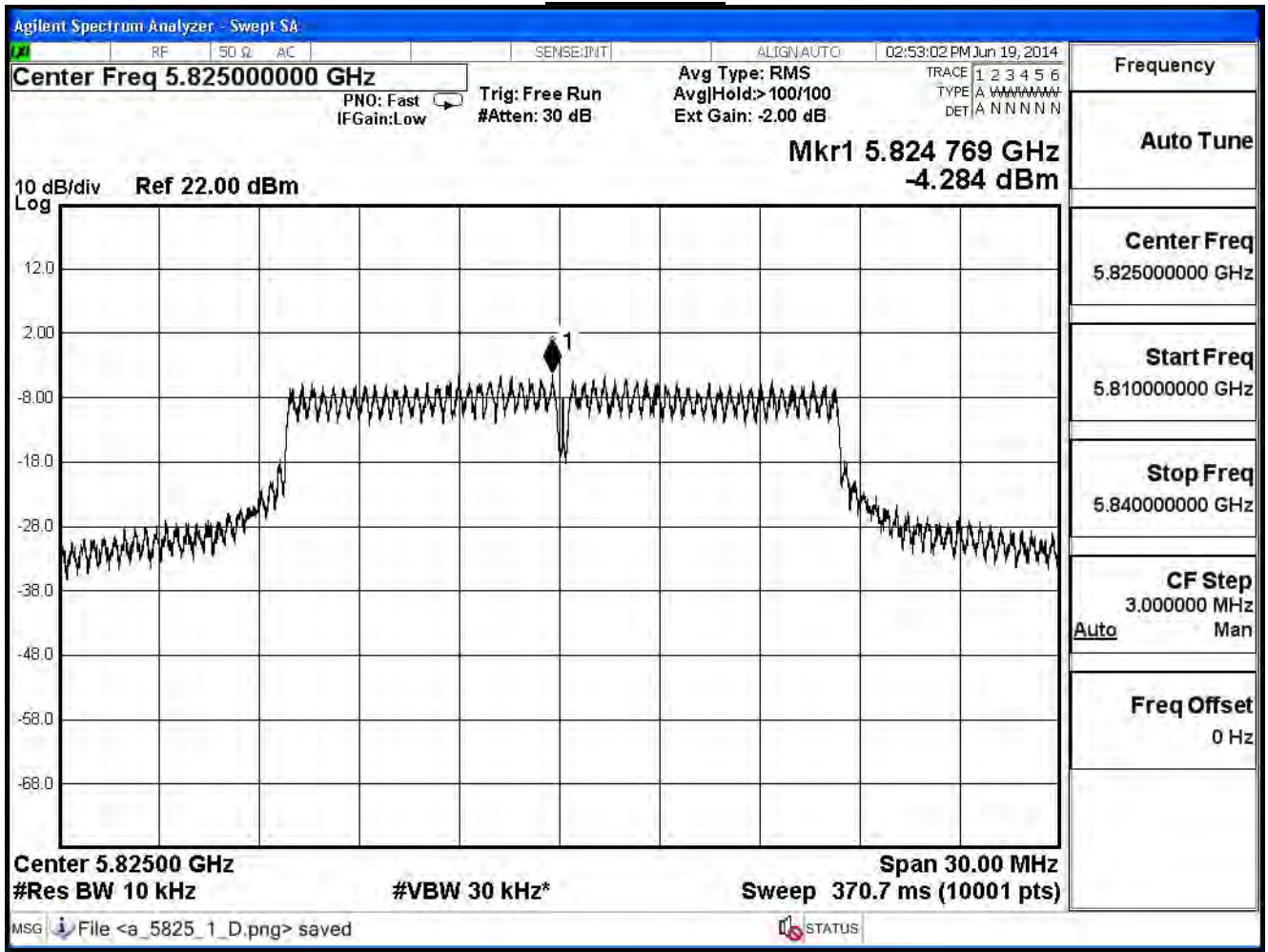
Channel 149



Channel 157



Channel 165



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

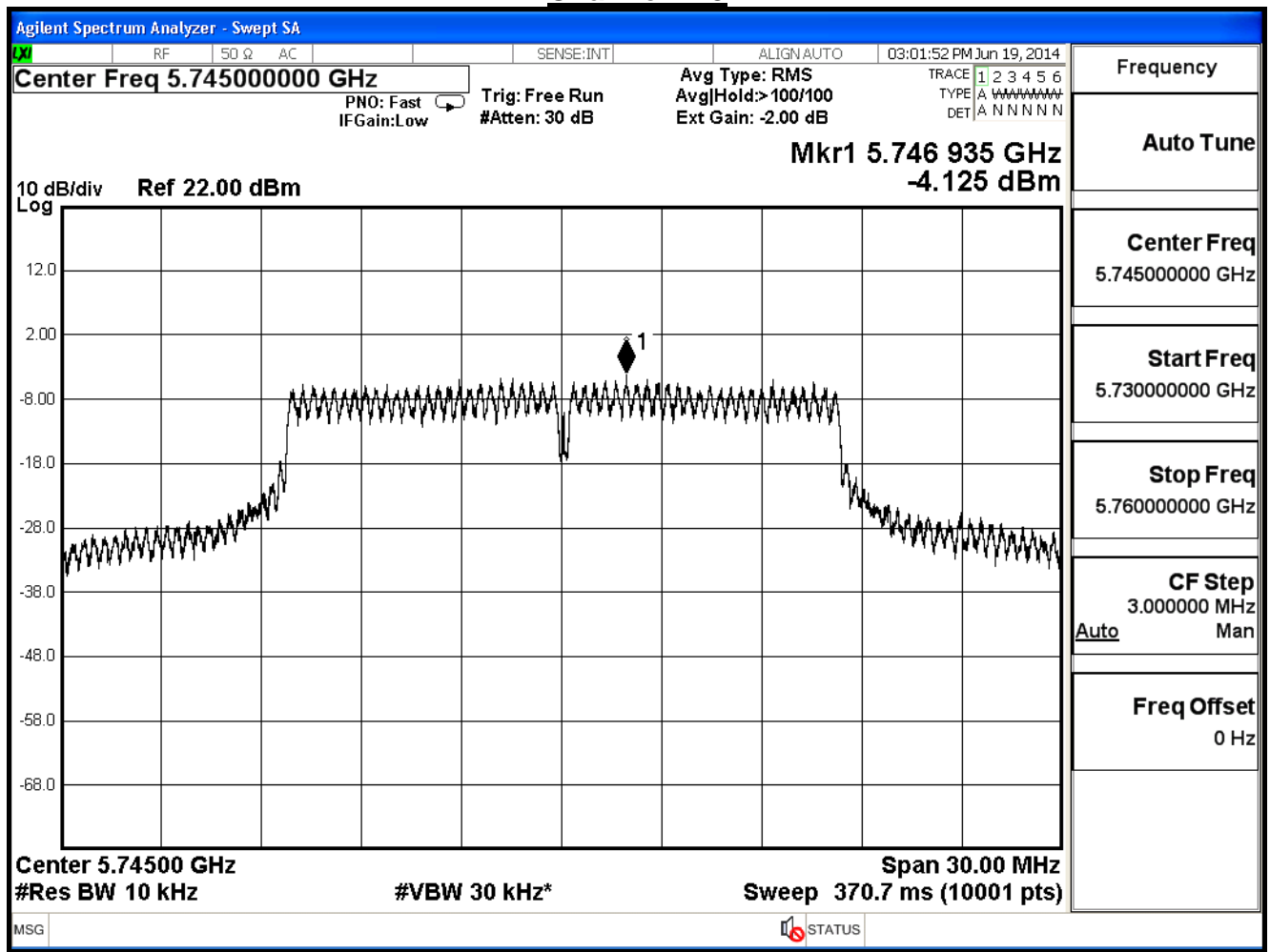
IEEE 802.11a (ANT2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-4.125	≤ 5.19	Pass
157	5785	-4.071	≤ 5.19	Pass
165	5825	-4.040	≤ 5.19	Pass

Note:

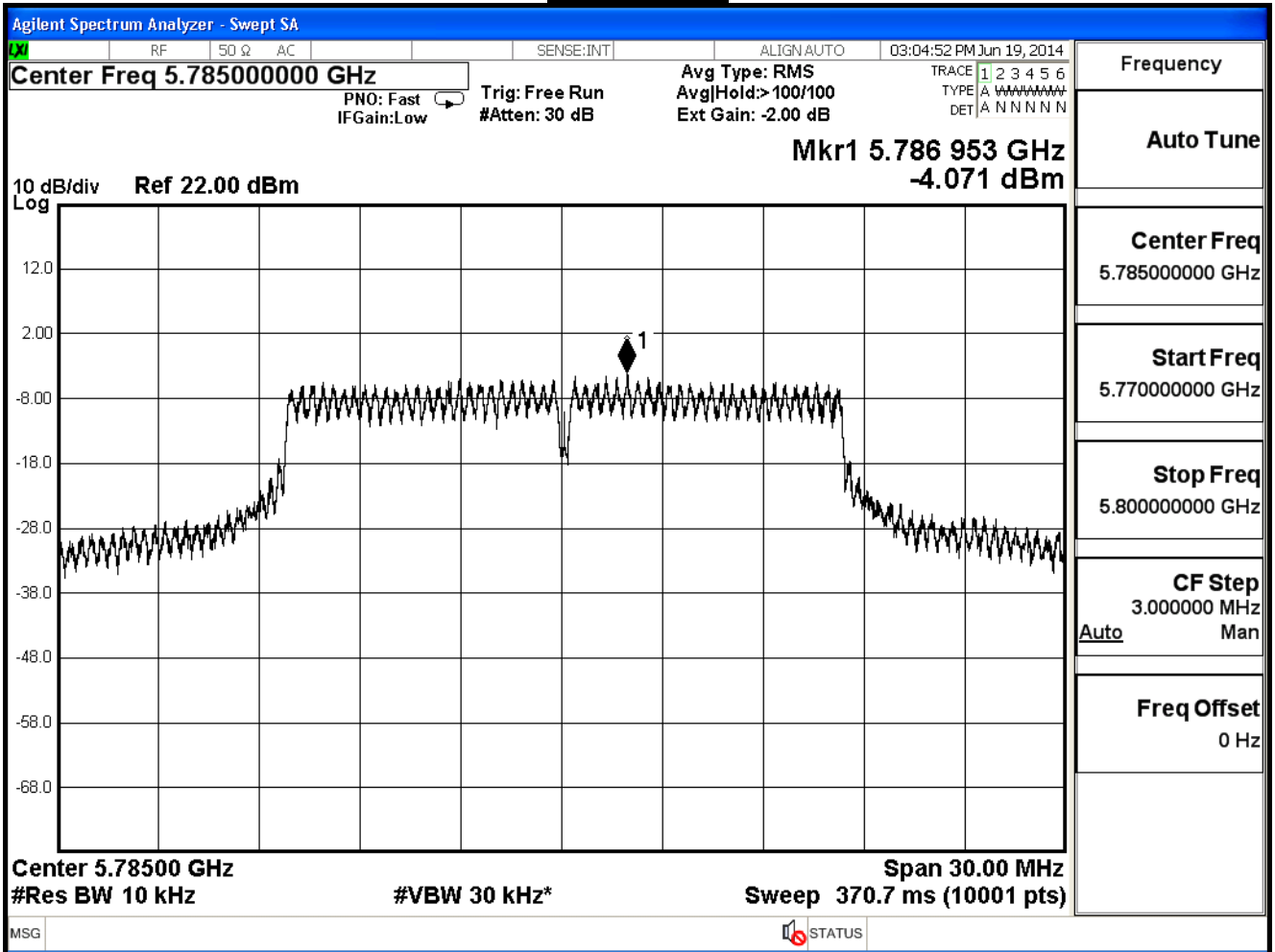
Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

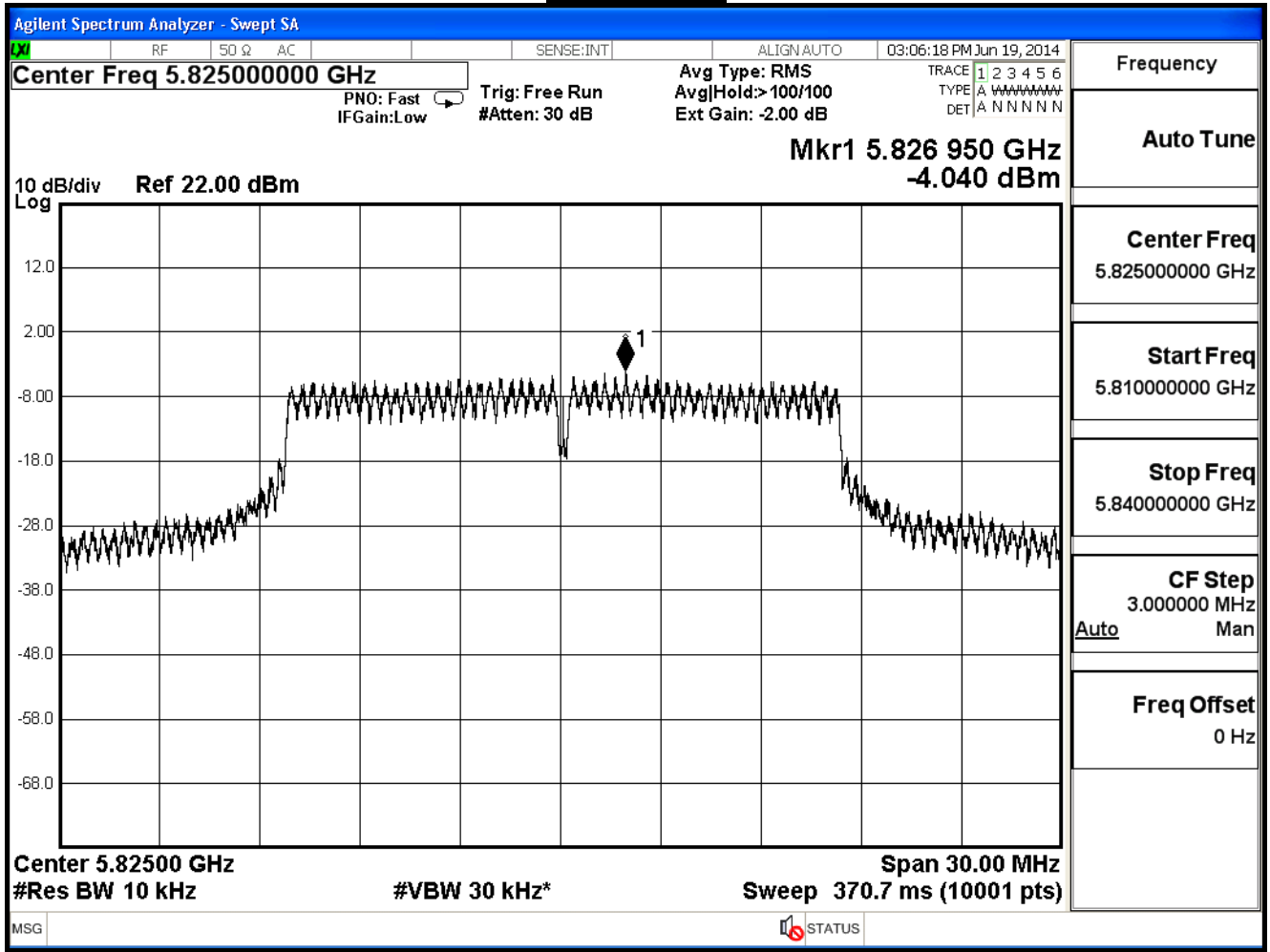
Channel 149



Channel 157



Channel 165



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE 802.11a (ANT0+1+2)				
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
149	5745	0.510	≤ 5.19	Pass
157	5785	0.950	≤ 5.19	Pass
165	5825	0.719	≤ 5.19	Pass

Note:

Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$
 Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

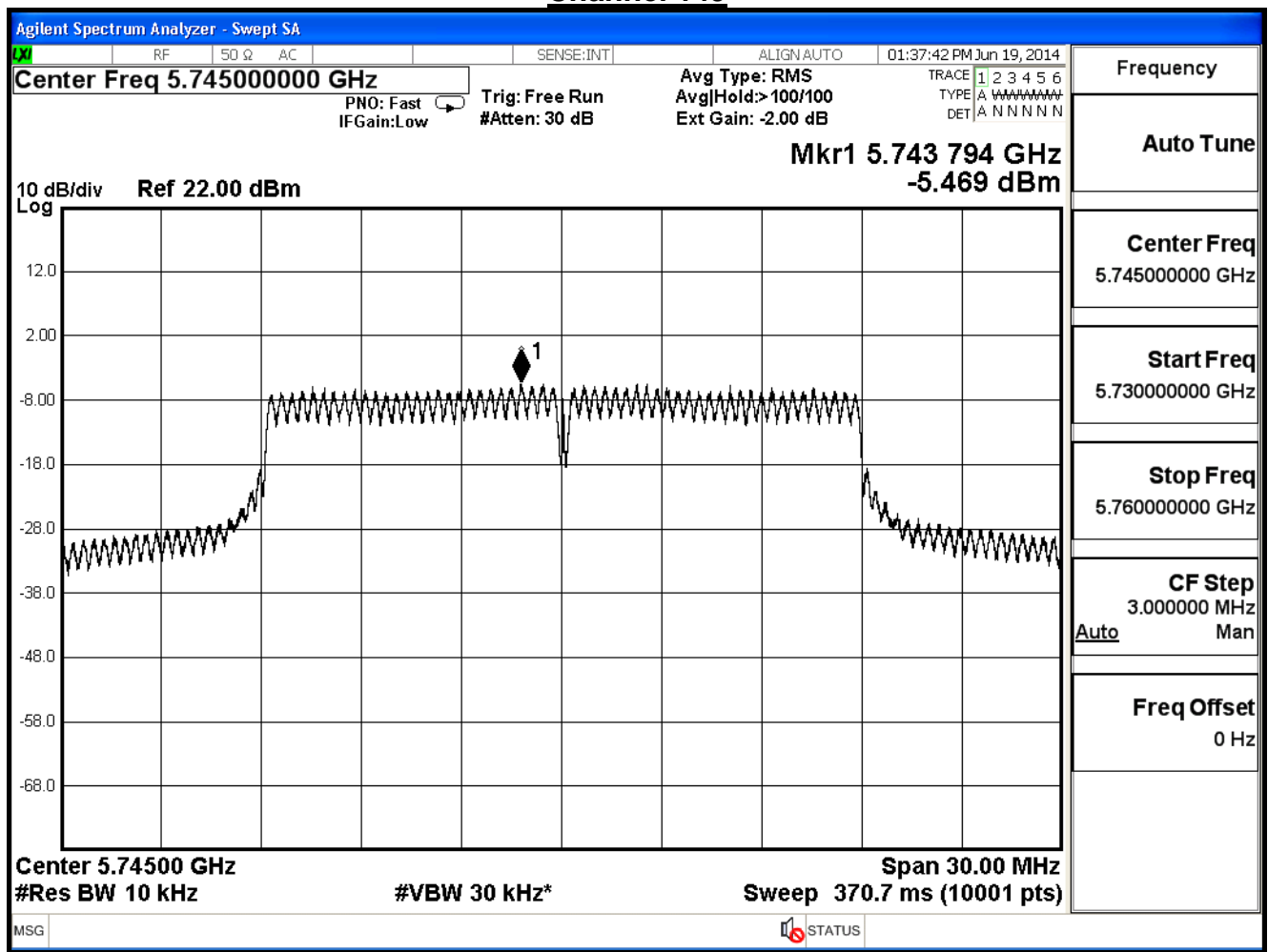
IEEE802.11n_20MHz_(ANT 0)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
149	5745	-5.469	≤ 5.19	Pass
157	5785	-5.272	≤ 5.19	Pass
165	5825	-5.245	≤ 5.19	Pass

Note:

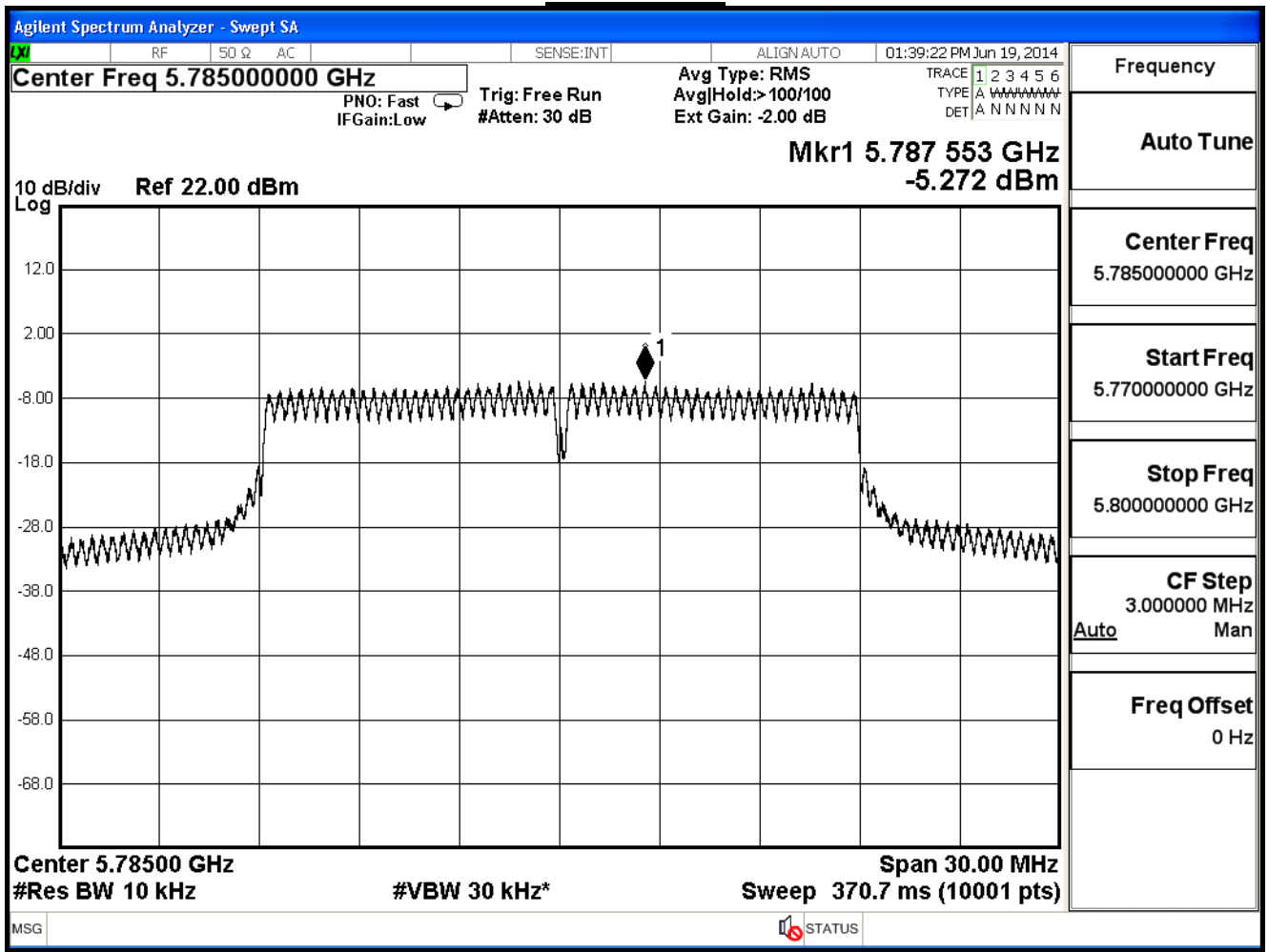
Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

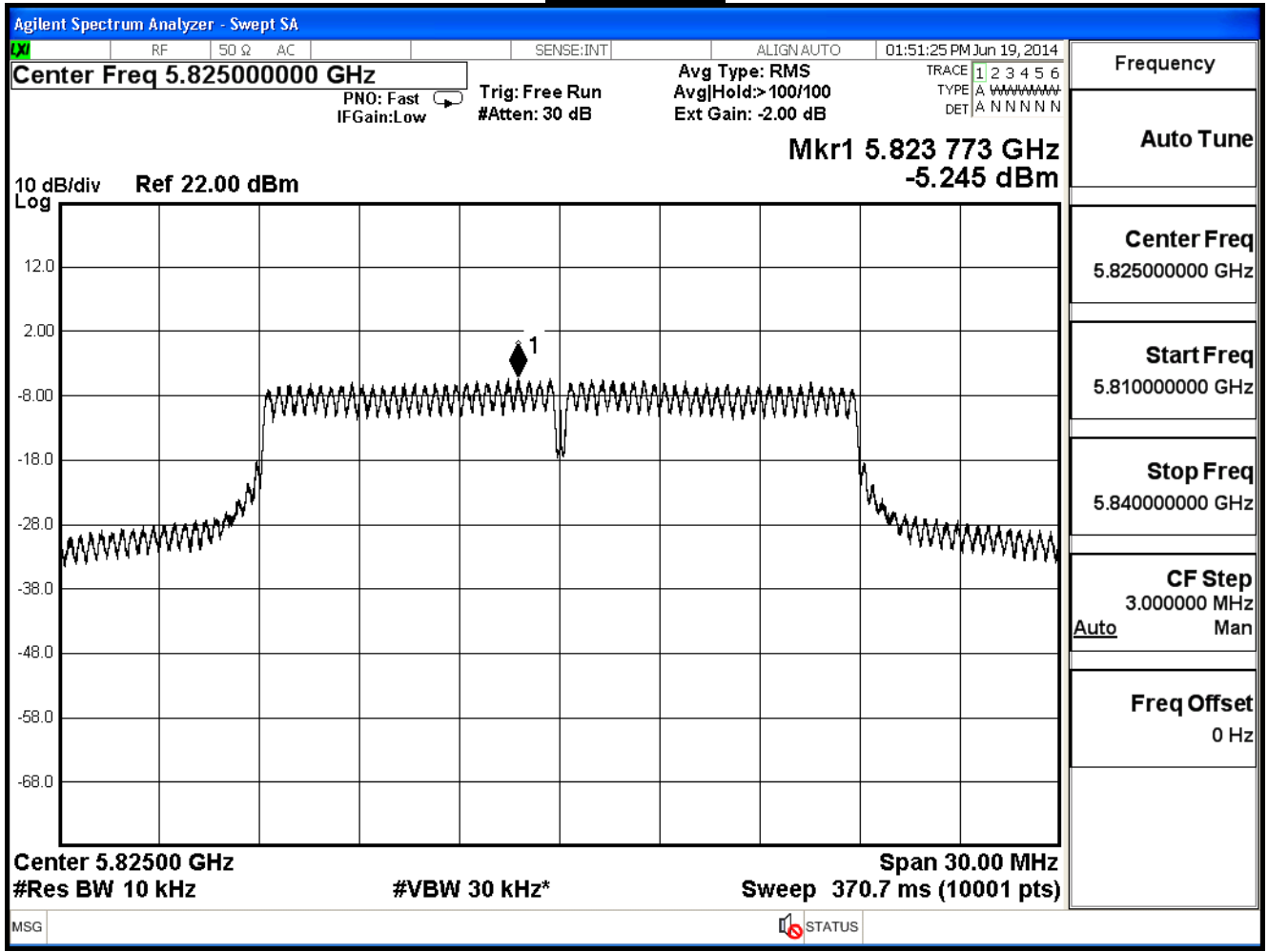
Channel 149



Channel 157



Channel 165



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11n_20MHz_(ANT 1)

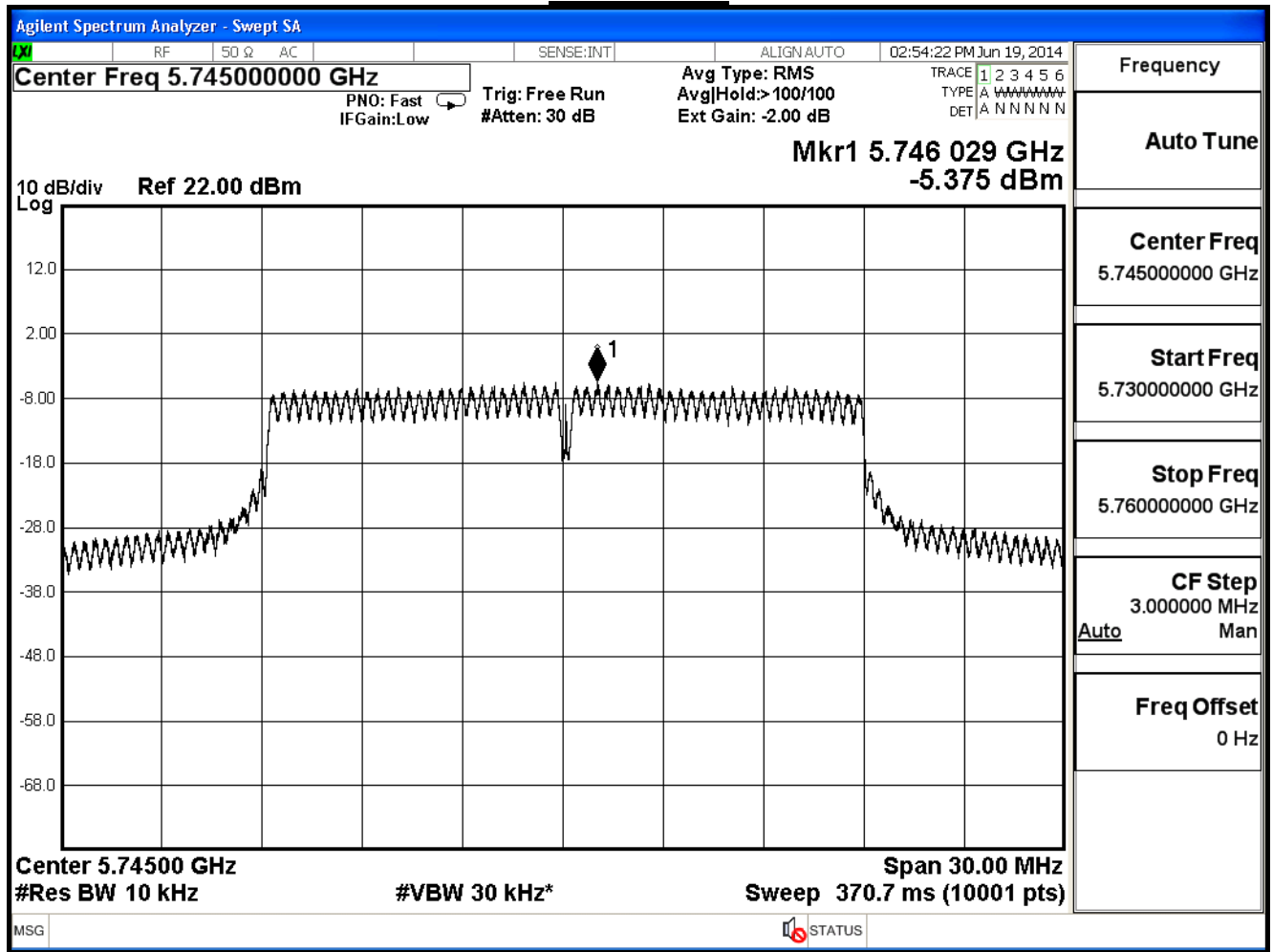
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-5.375	≤ 5.19	Pass
157	5785	-5.356	≤ 5.19	Pass
165	5825	-5.377	≤ 5.19	Pass

Note:

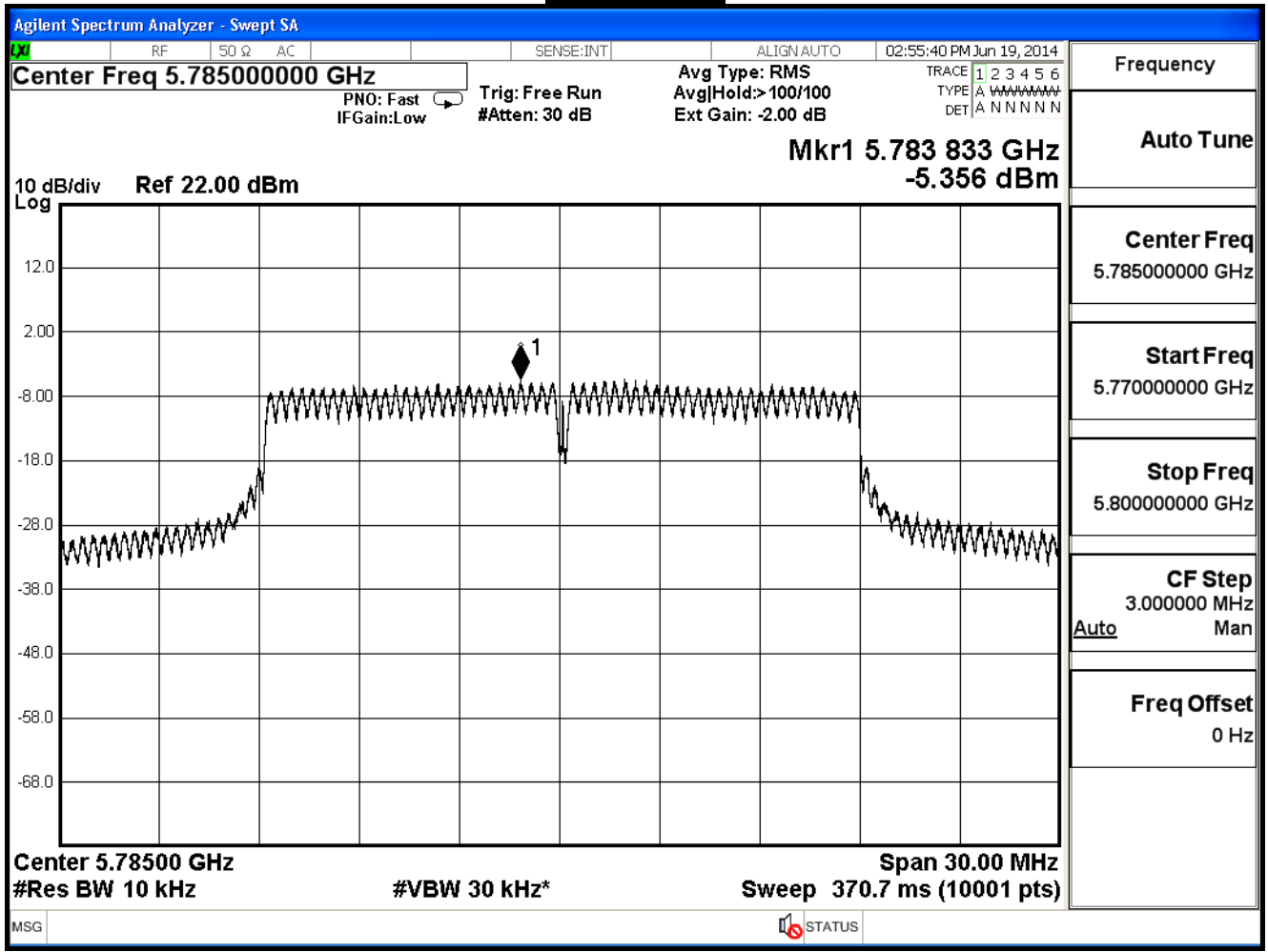
Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

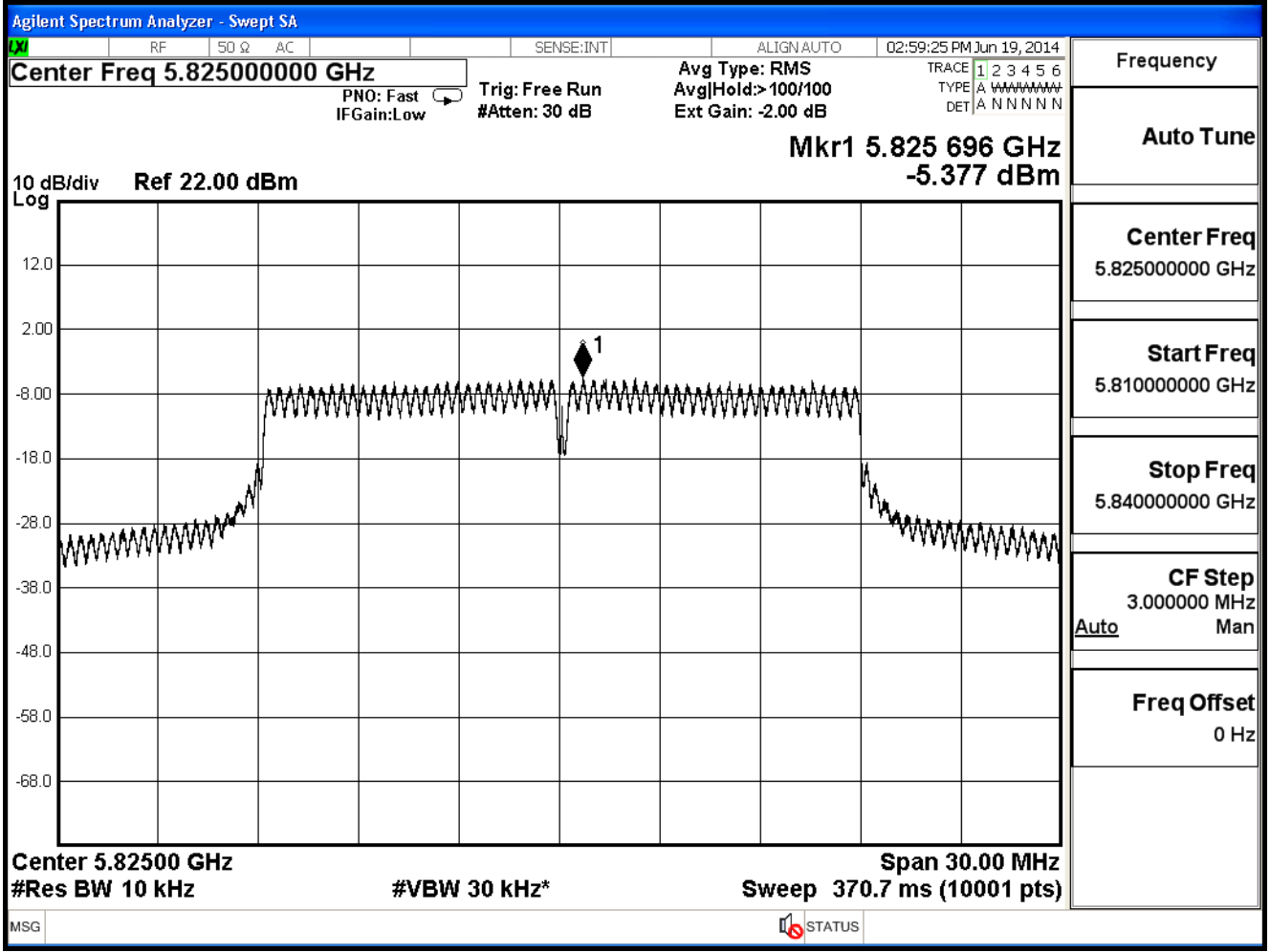
Channel 149



Channel 157



Channel 165



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11n_20MHz_(ANT 2)

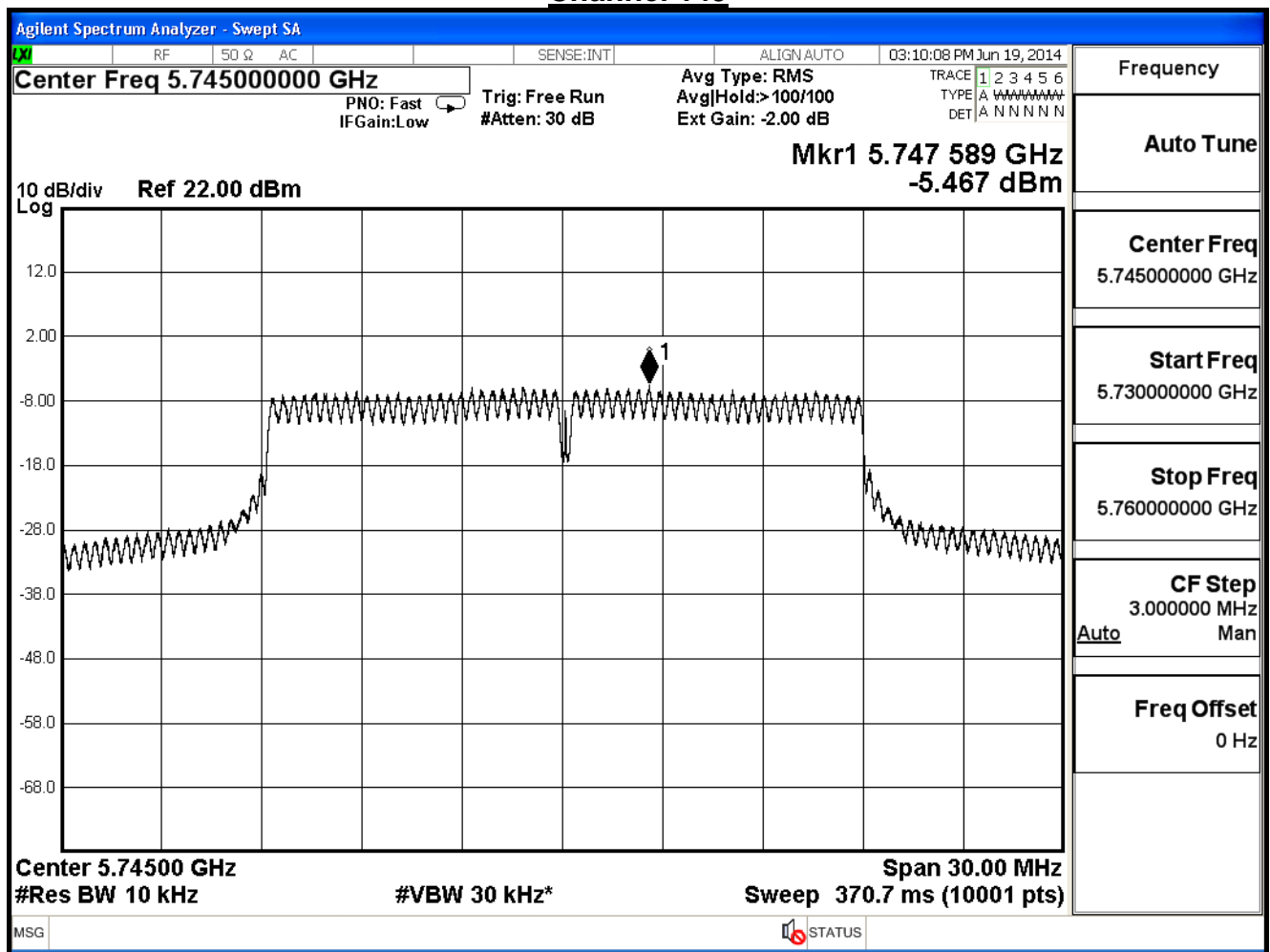
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-5.467	≤ 5.19	Pass
157	5785	-4.969	≤ 5.19	Pass
165	5825	-5.261	≤ 5.19	Pass

Note:

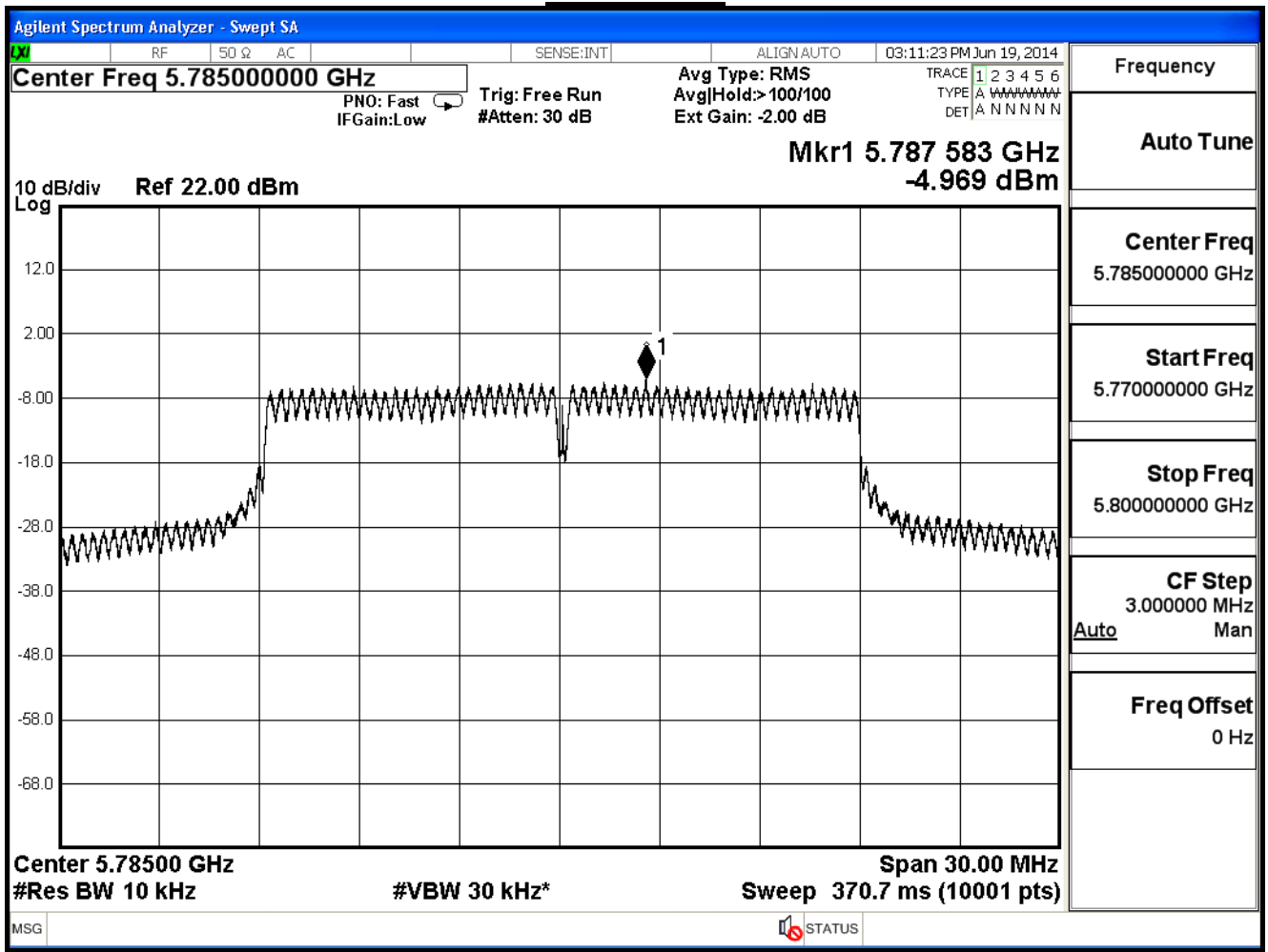
Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

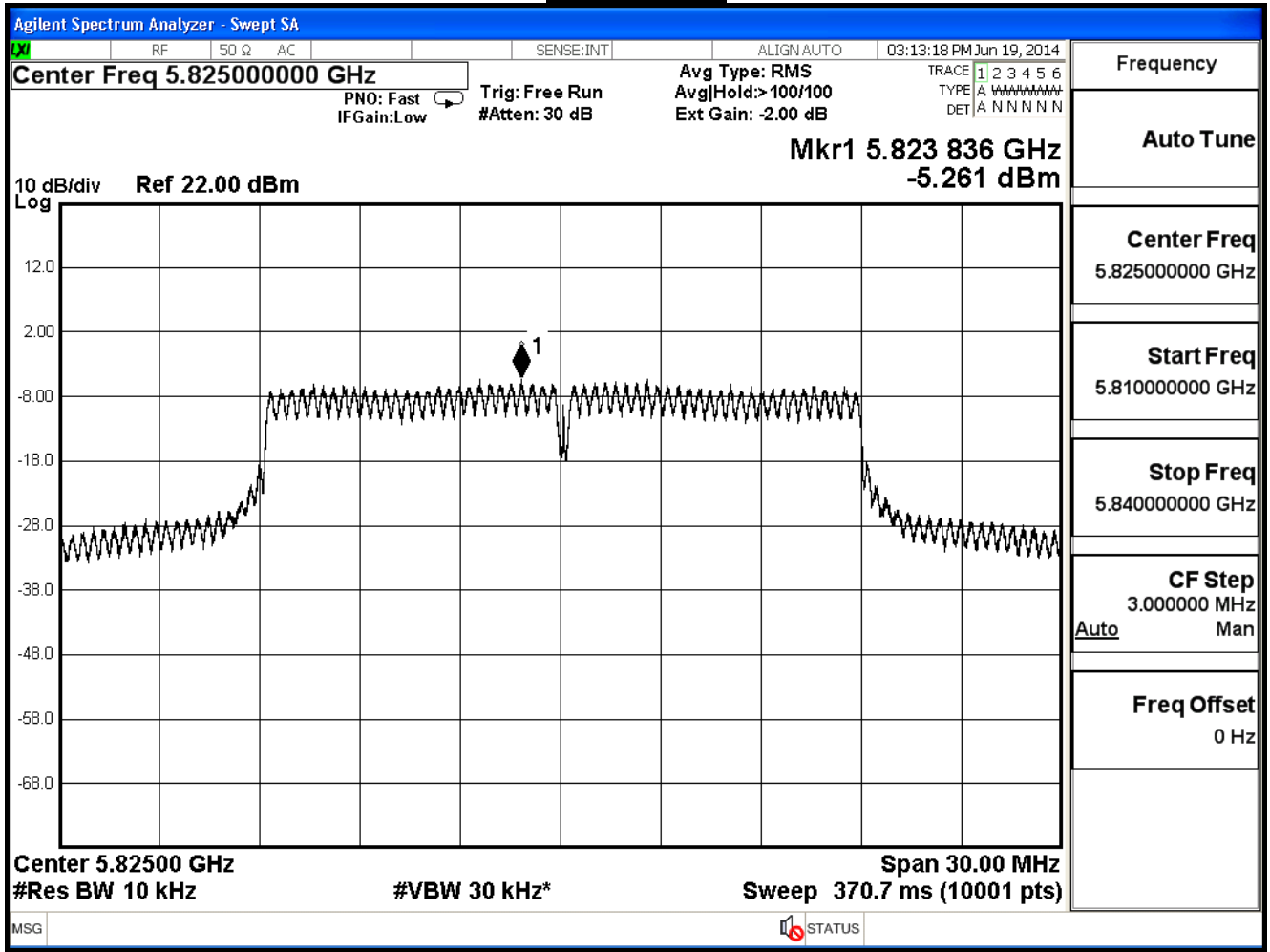
Channel 149



Channel 157



Channel 165



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11n 20MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-0.666	≤ 5.19	Pass
157	5785	-0.425	≤ 5.19	Pass
165	5825	-0.523	≤ 5.19	Pass

Note:

Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

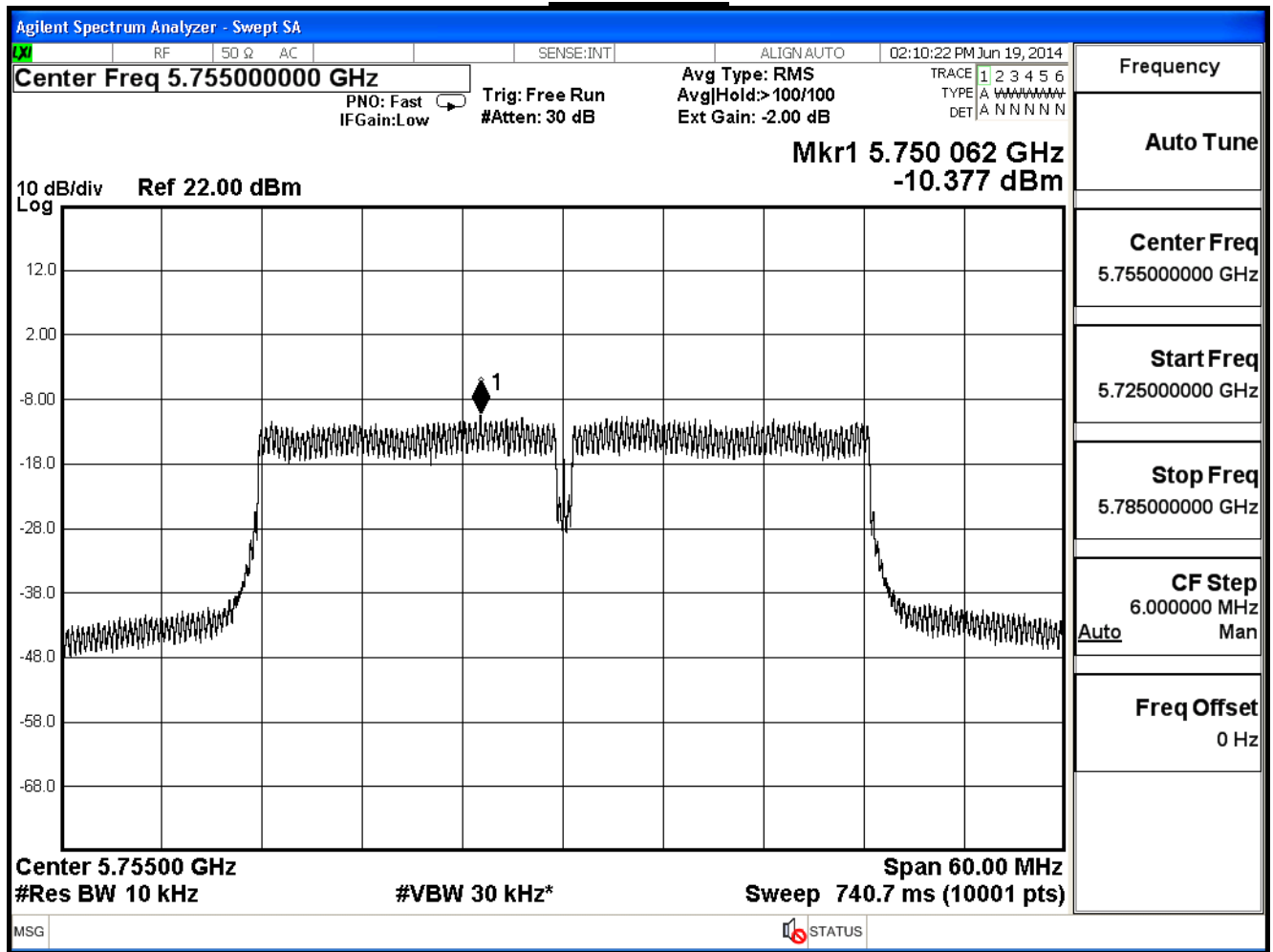
IEEE 802.11n_40MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
151	5755	-10.377	≤ 5.19	Pass
159	5795	-7.896	≤ 5.19	Pass

Note:

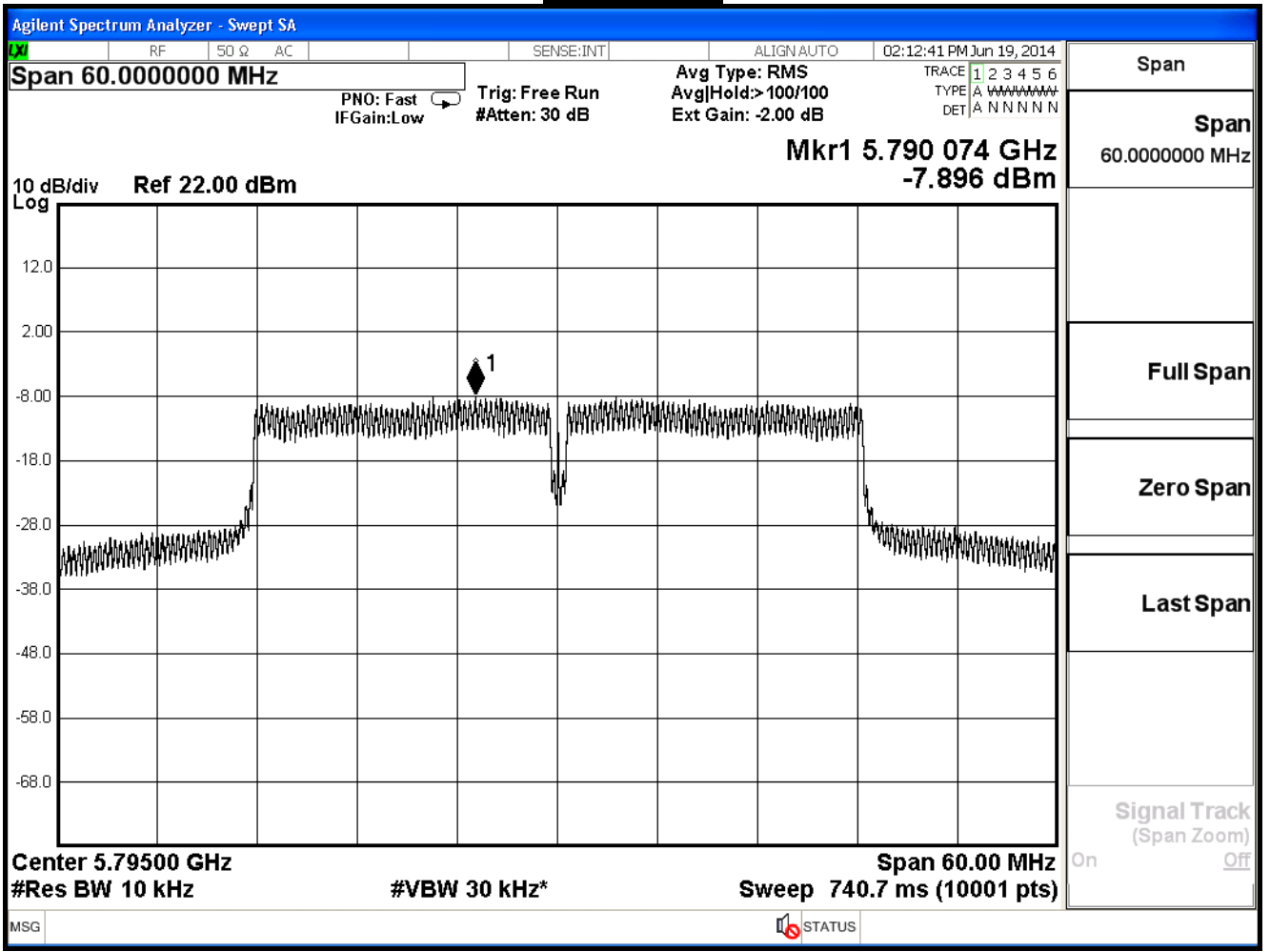
Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

Channel 151



Channel 159



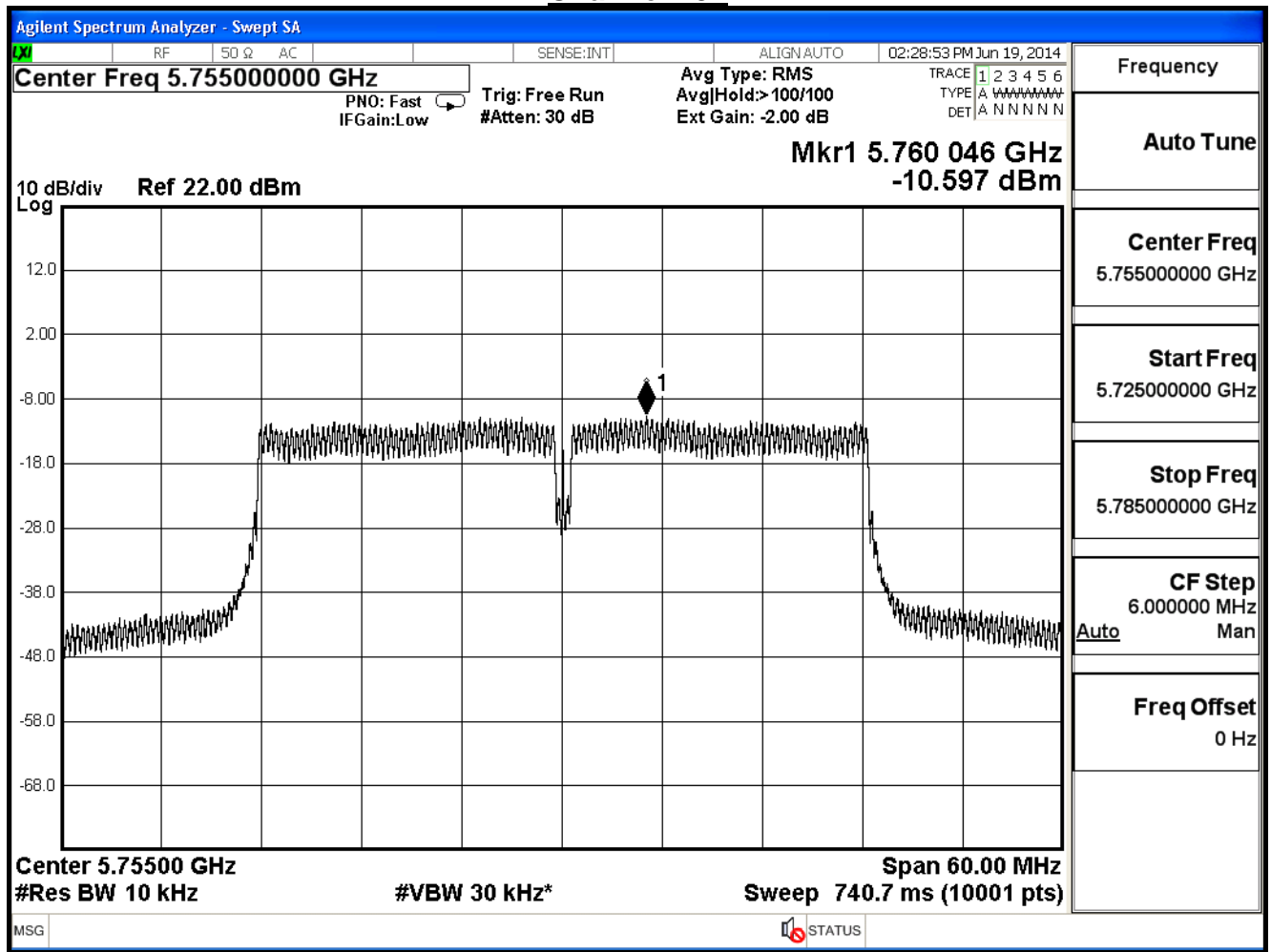
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE 802.11n_40MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-10.597	≤ 5.19	Pass
159	5795	-7.813	≤ 5.19	Pass

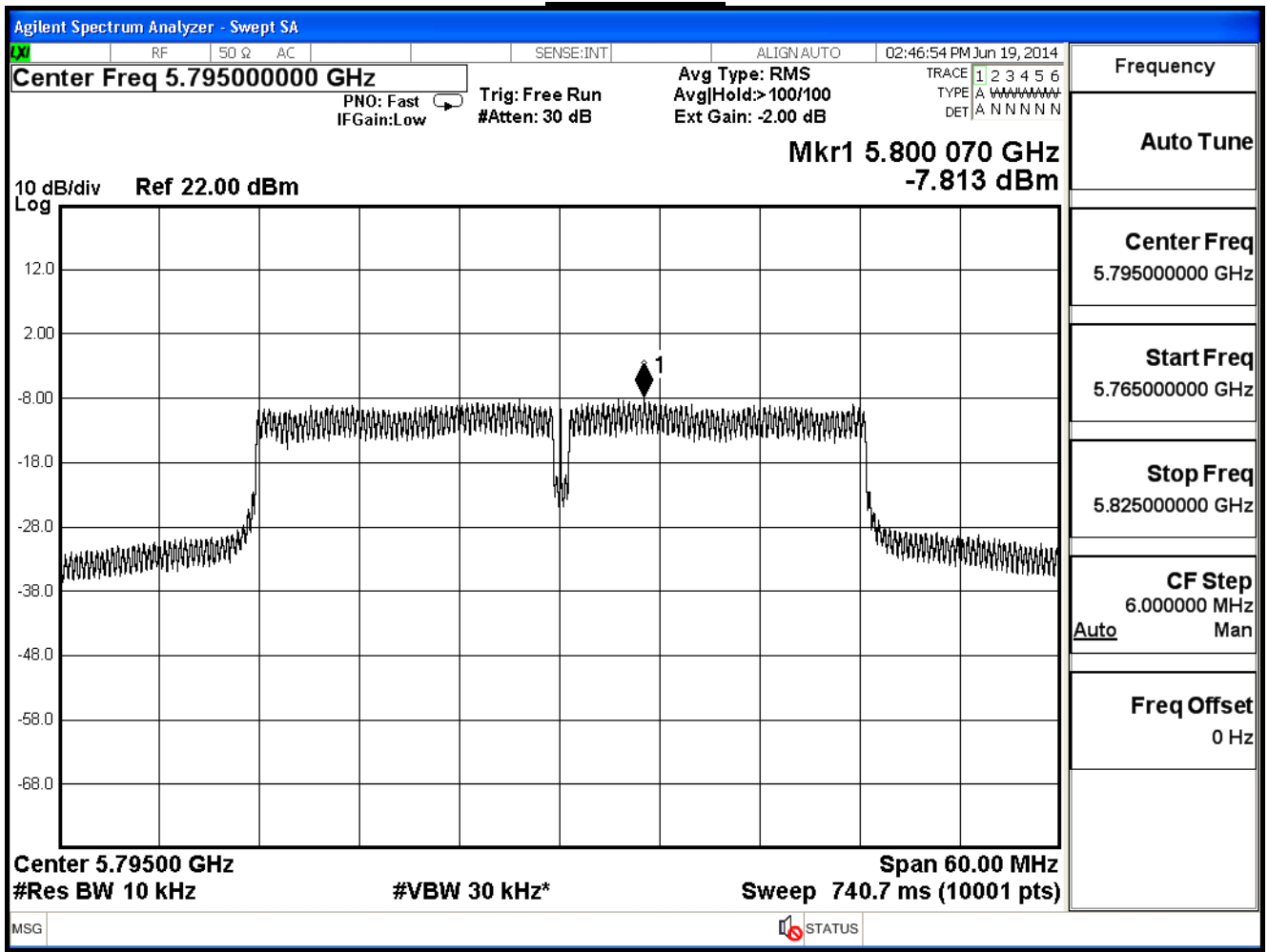
Note:

Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$
 Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

Channel 151



Channel 159



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE 802.11n_40MHz (ANT 2)

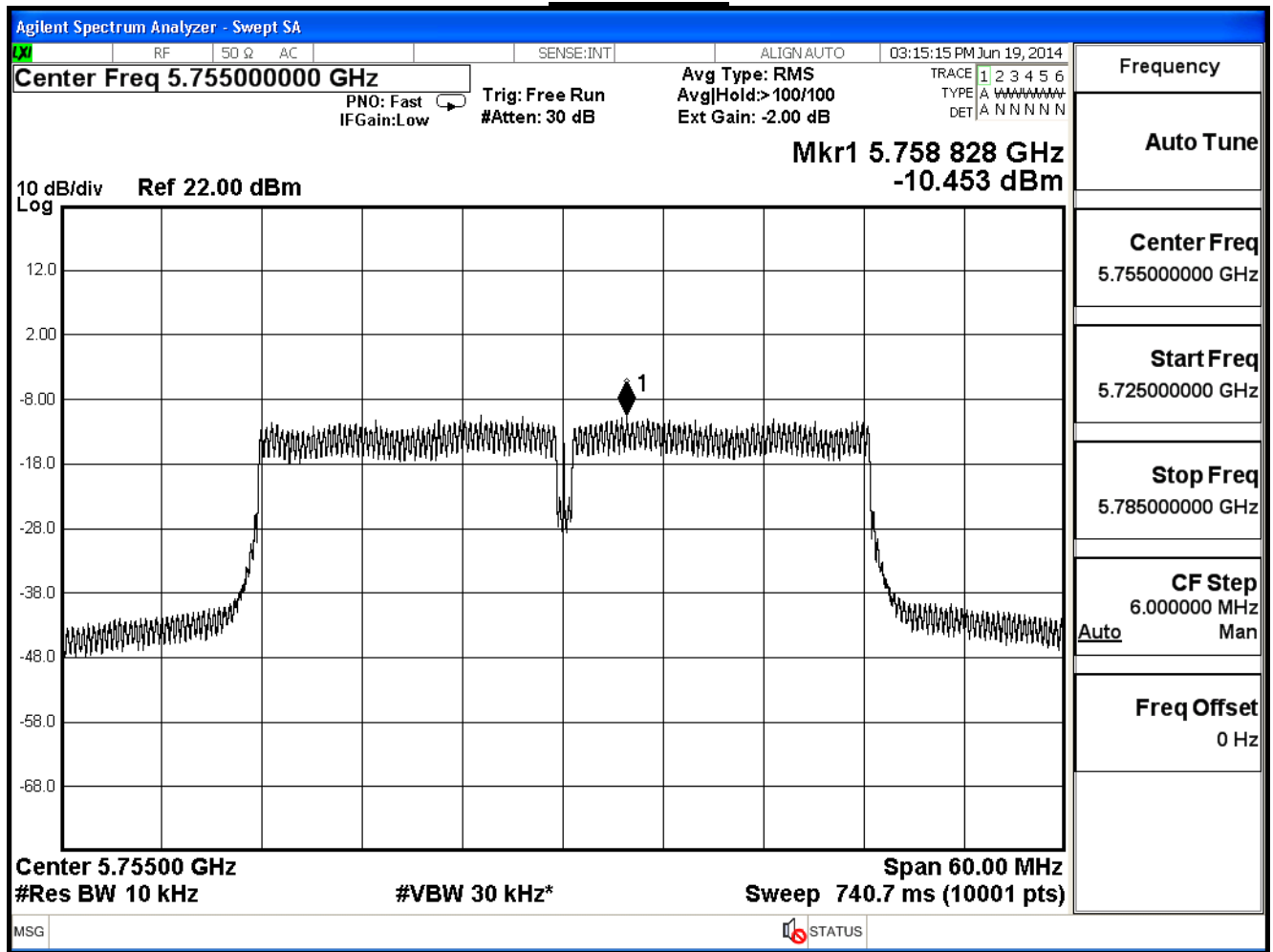
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-10.453	≤ 5.19	Pass
159	5795	-7.887	≤ 5.19	Pass

Note:

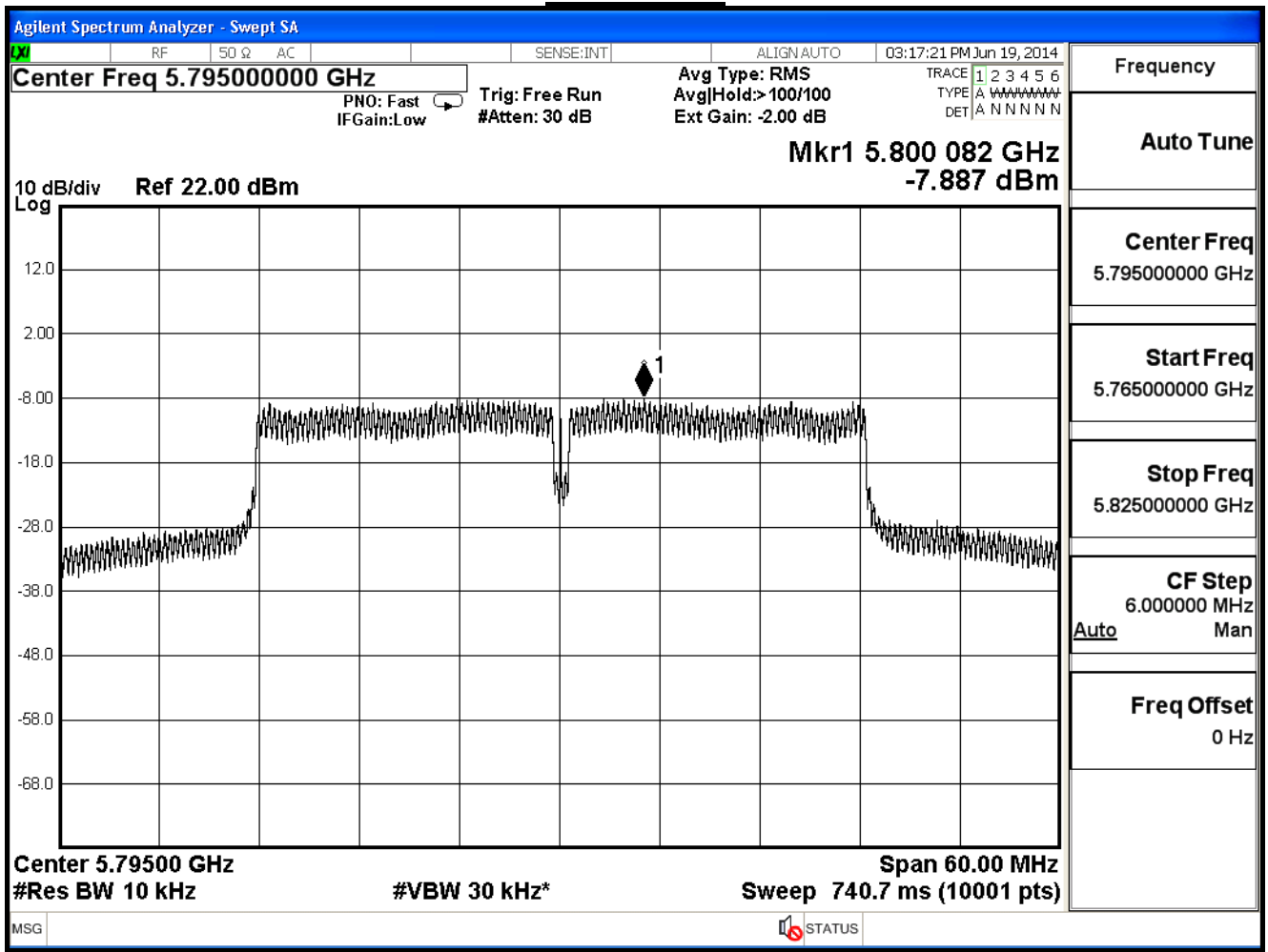
Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

Channel 151



Channel 159



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-5.703	≤ 5.19	Pass
159	5795	-3.094	≤ 5.19	Pass

Note:

Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

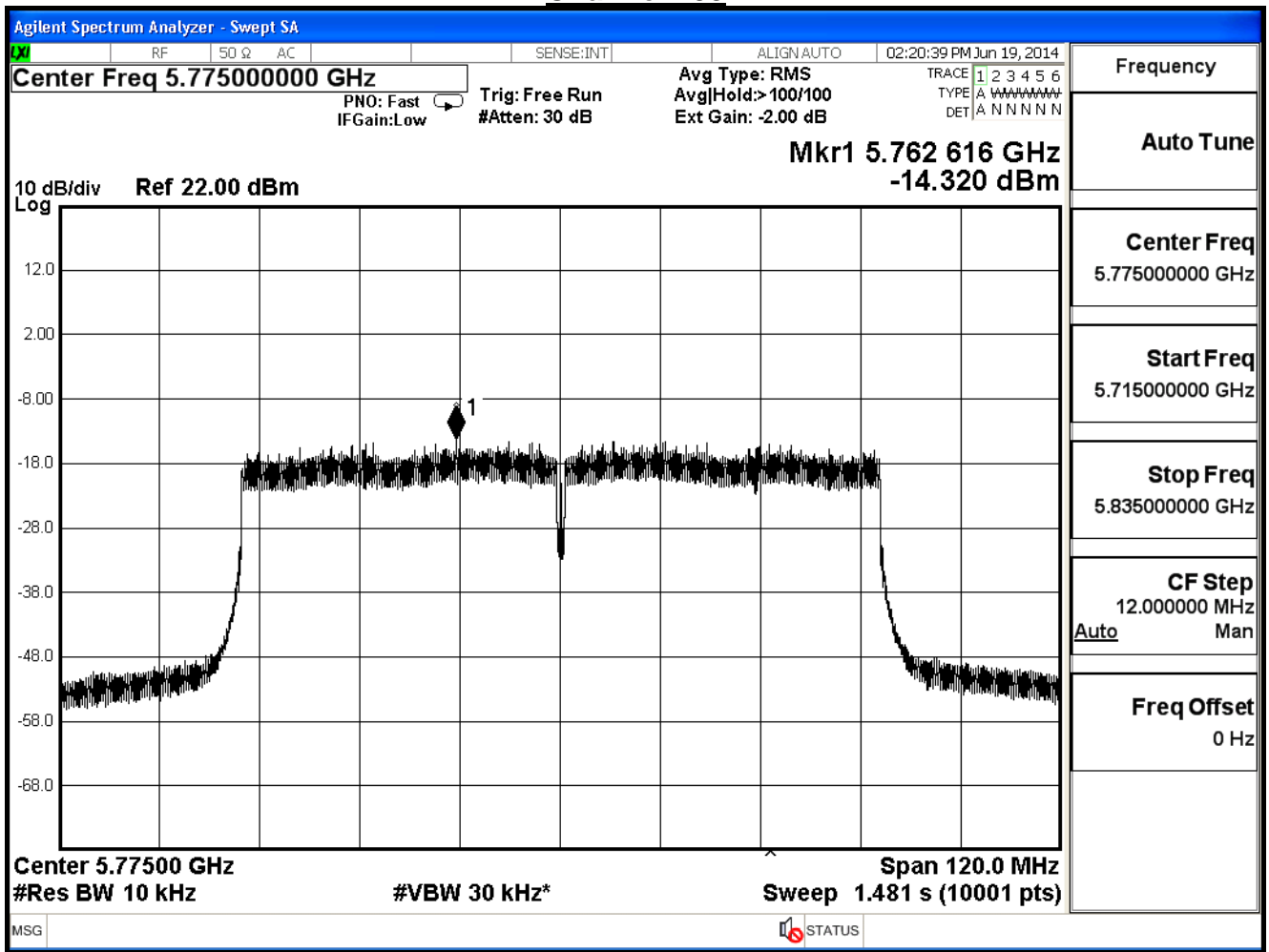
IEEE 802.11ac_80MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-14.320	≤5.19	Pass

Note:

Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

Channel 155



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

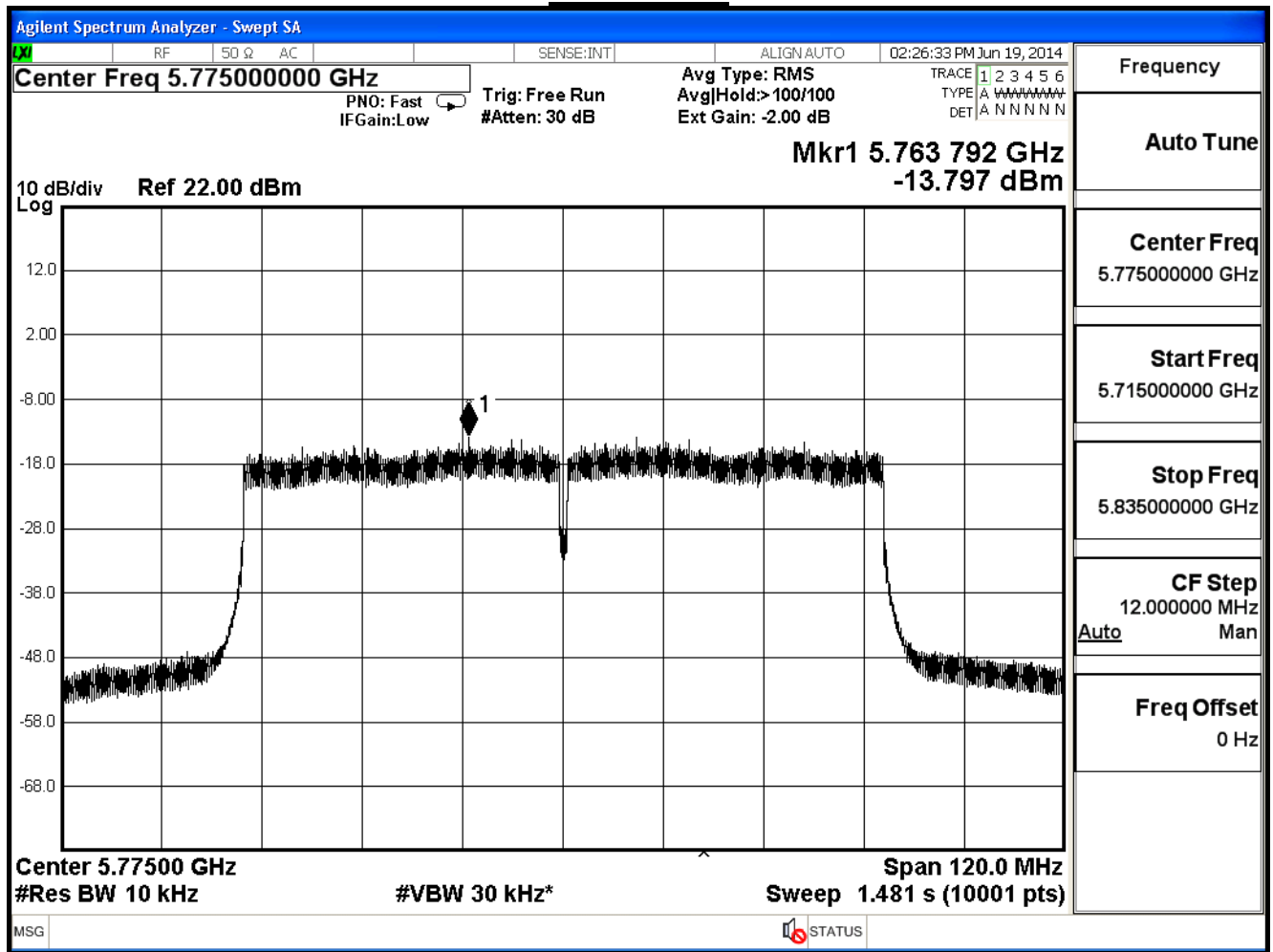
IEEE 802.11ac_80MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-13.797	≤ 5.19	Pass

Note:

Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

Channel 155



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

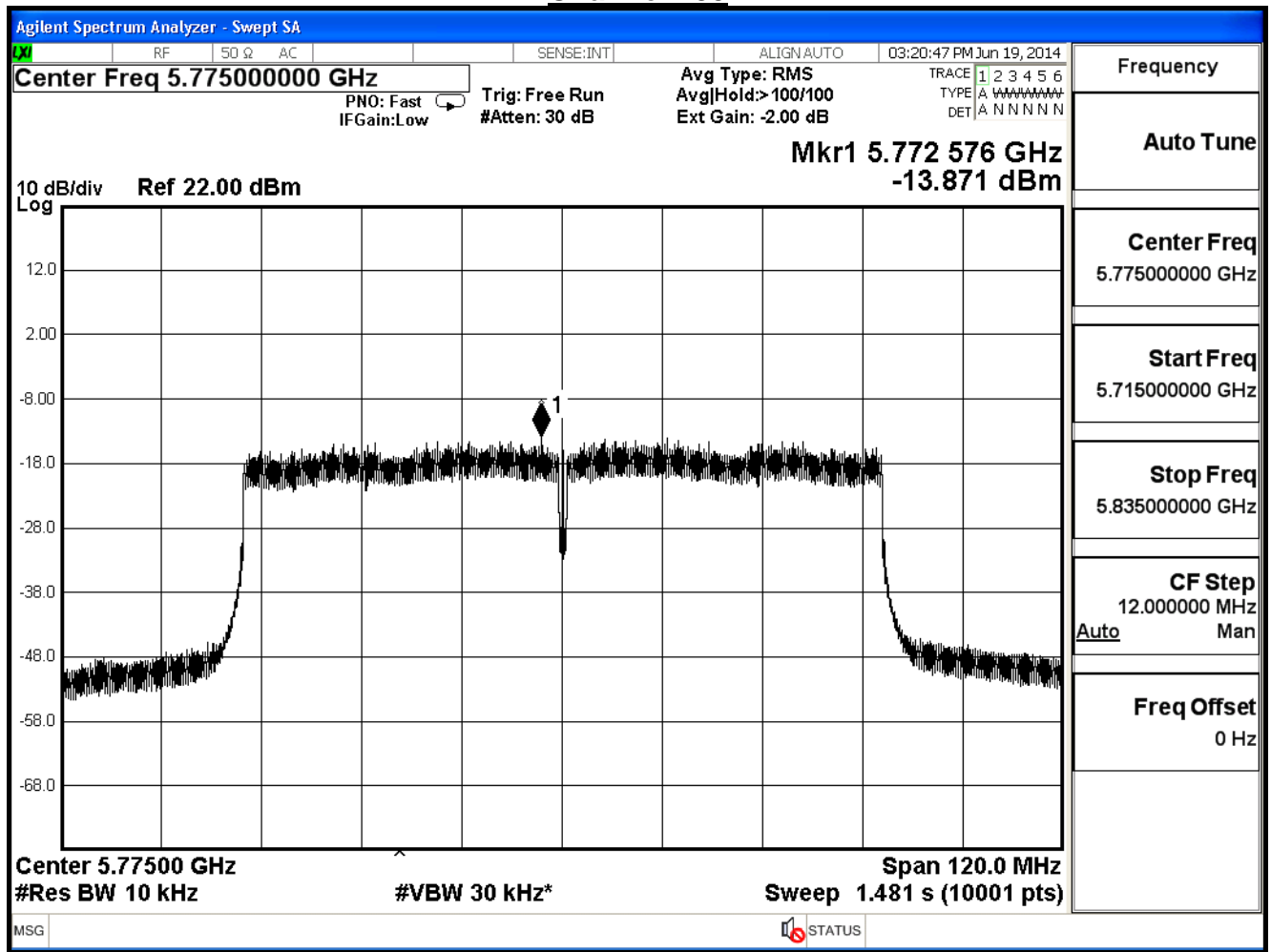
IEEE 802.11ac_80MHz (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-13.871	≤ 5.19	Pass

Note:

Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

Channel 155



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11ac_80MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-9.219	≤ 5.19	Pass

Note:

Directional Antenna Gain = $10\log(\text{Ant N}) + \text{Max Gain} = 8.81\text{dBi}$

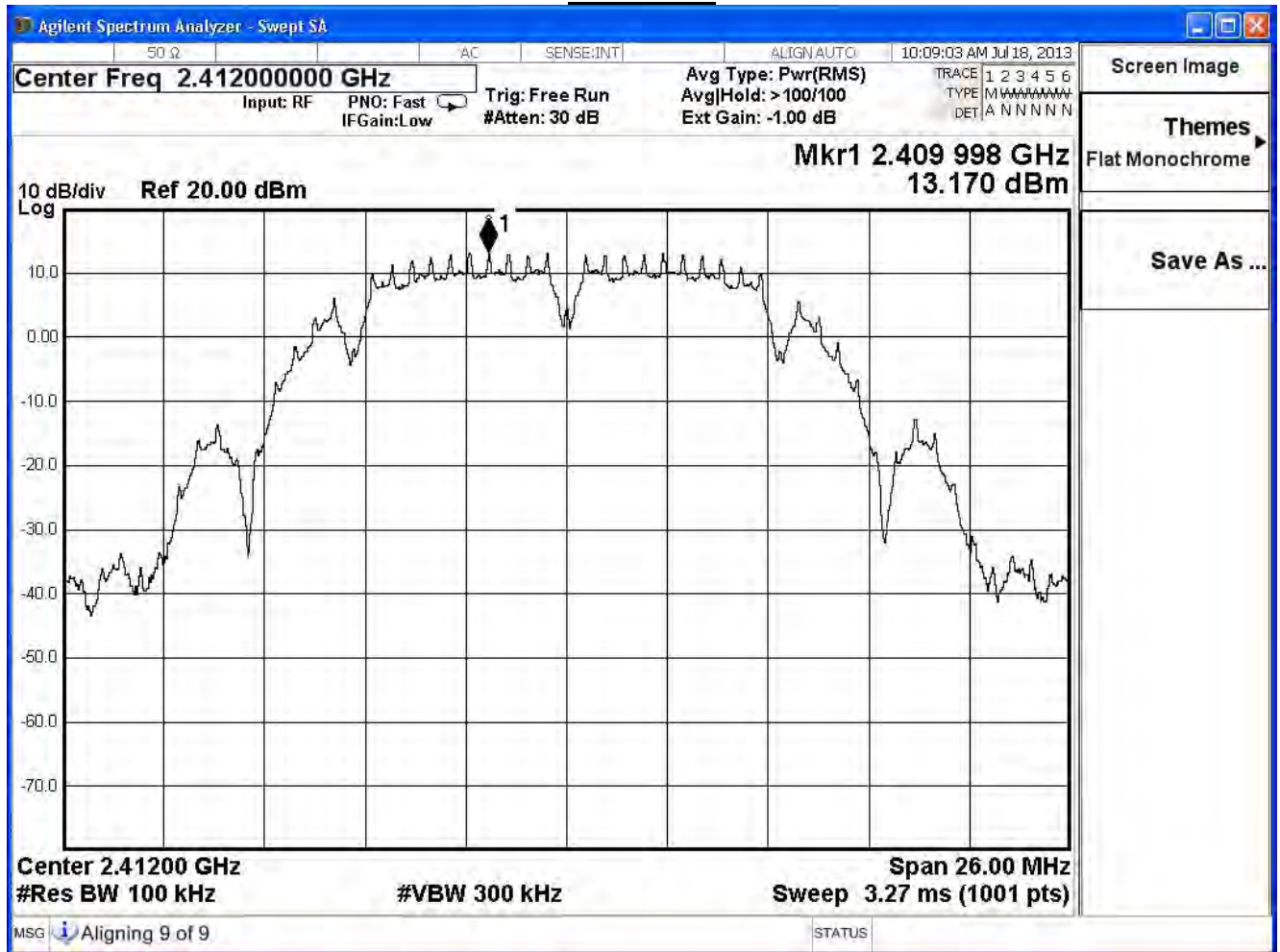
Required Limit = $8\text{dBm} - (8.81\text{dBi} - 6\text{dB}) = 5.19\text{ dBm}$

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 5: Transmit (SISO Mode)_Adapter: EXA1206UH		
Date of Test	2013/07/19	Test Site	SR7

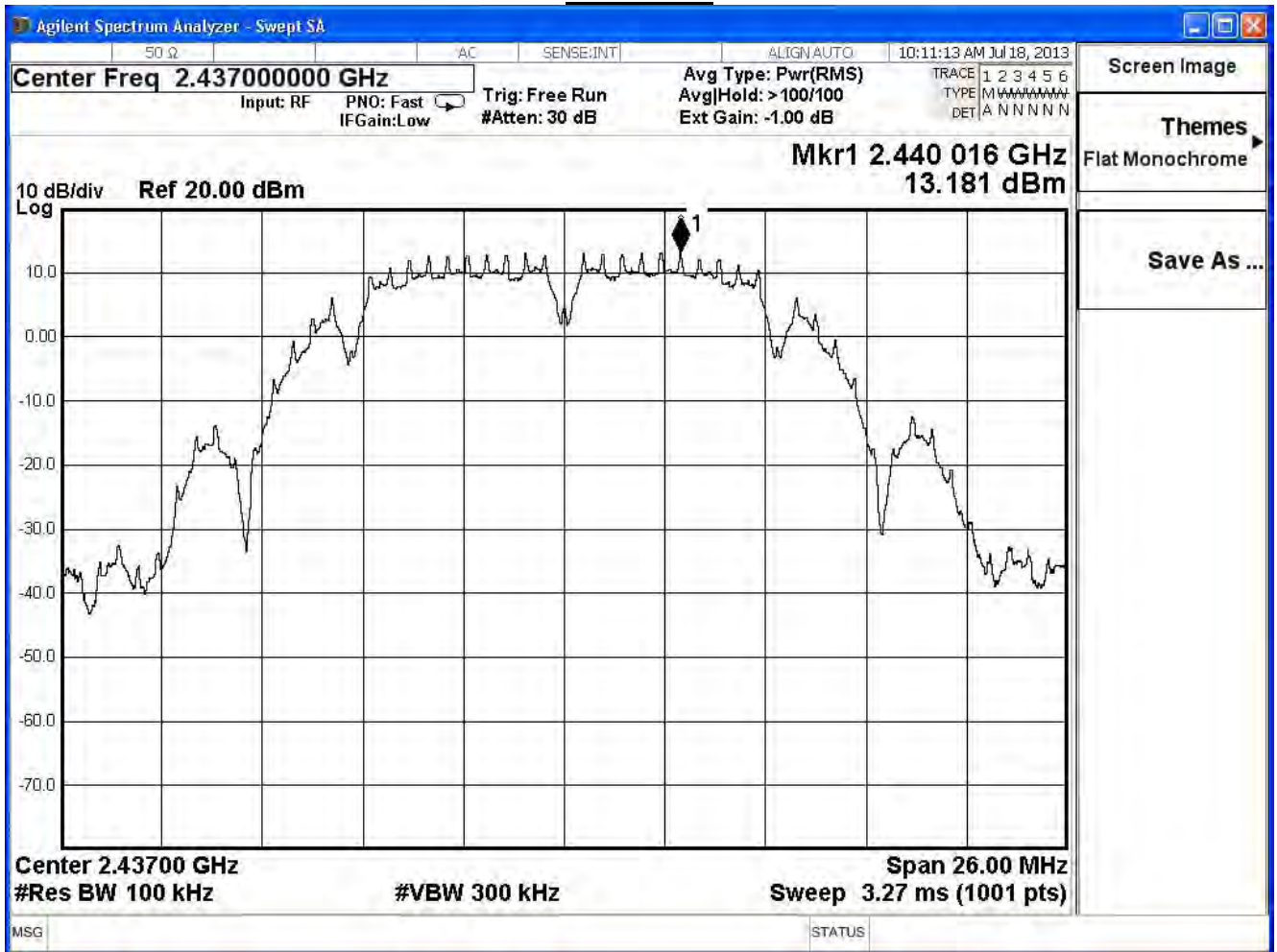
IEEE 802.11b , 1TX mode (SISO)

Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	13.17	-2.03	≤ 8	Pass
6	2437	13.18	-2.02	≤ 8	Pass
11	2462	12.63	-2.57	≤ 8	Pass

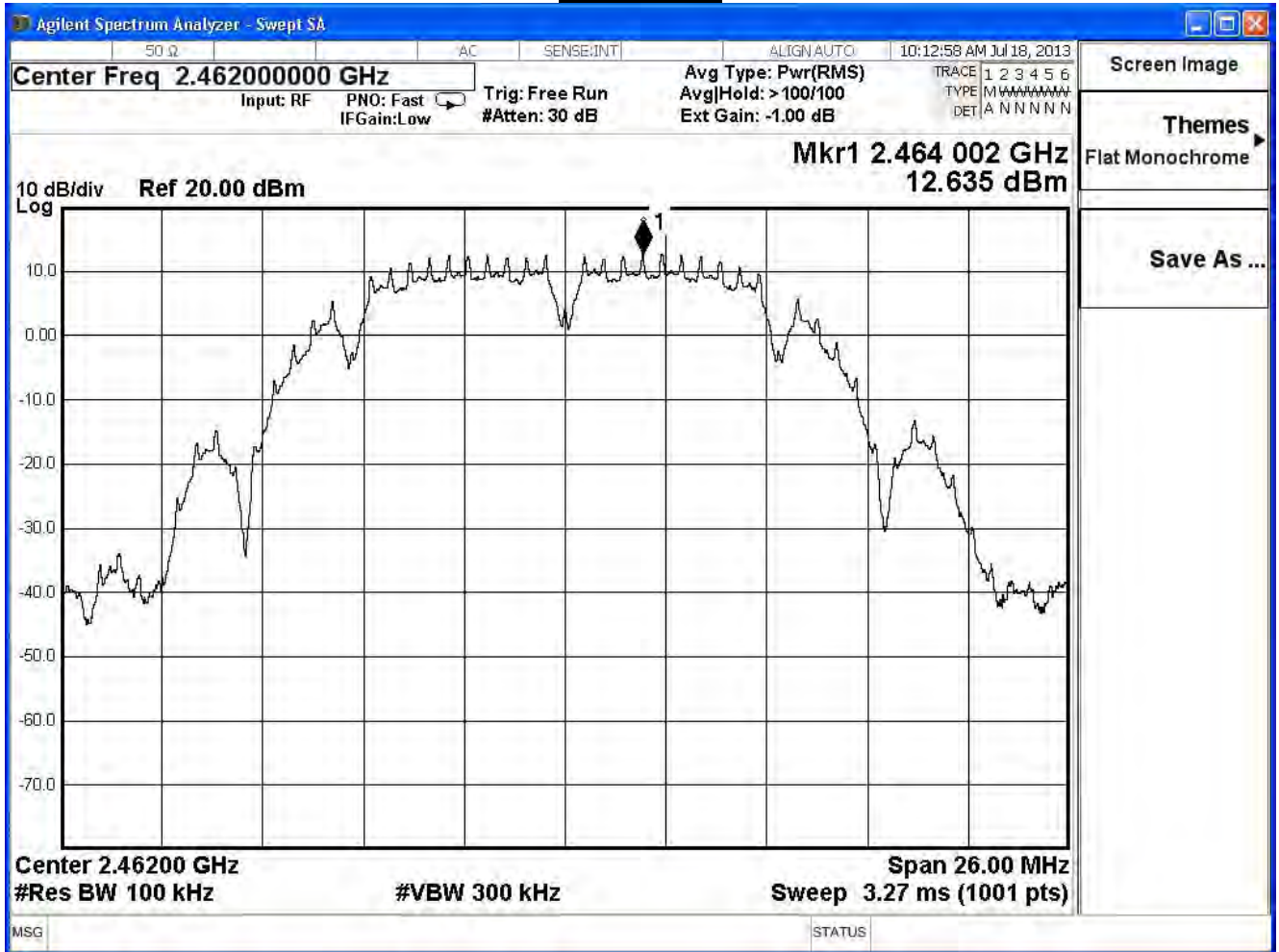
Channel 1



Channel 6



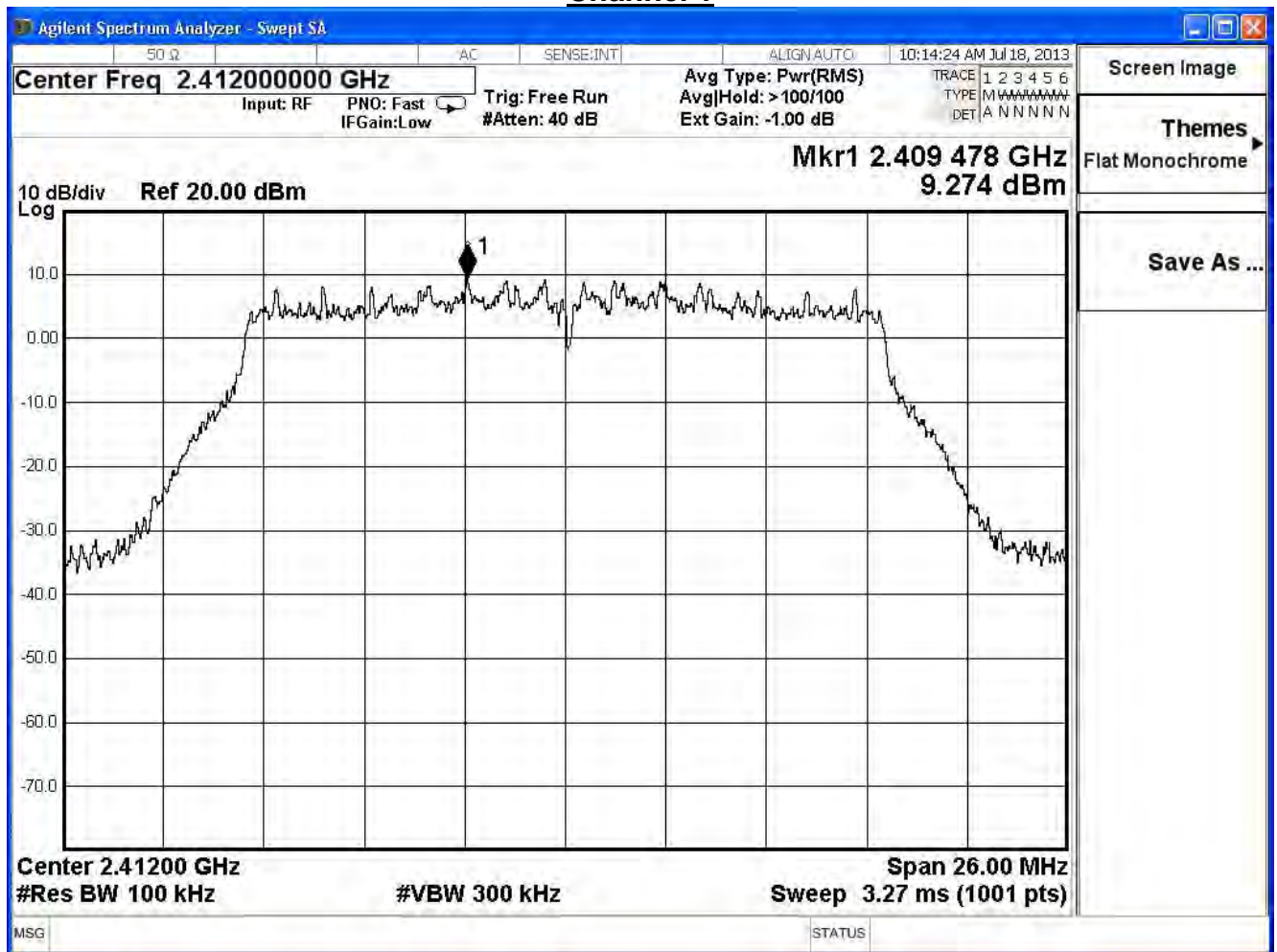
Channel 11



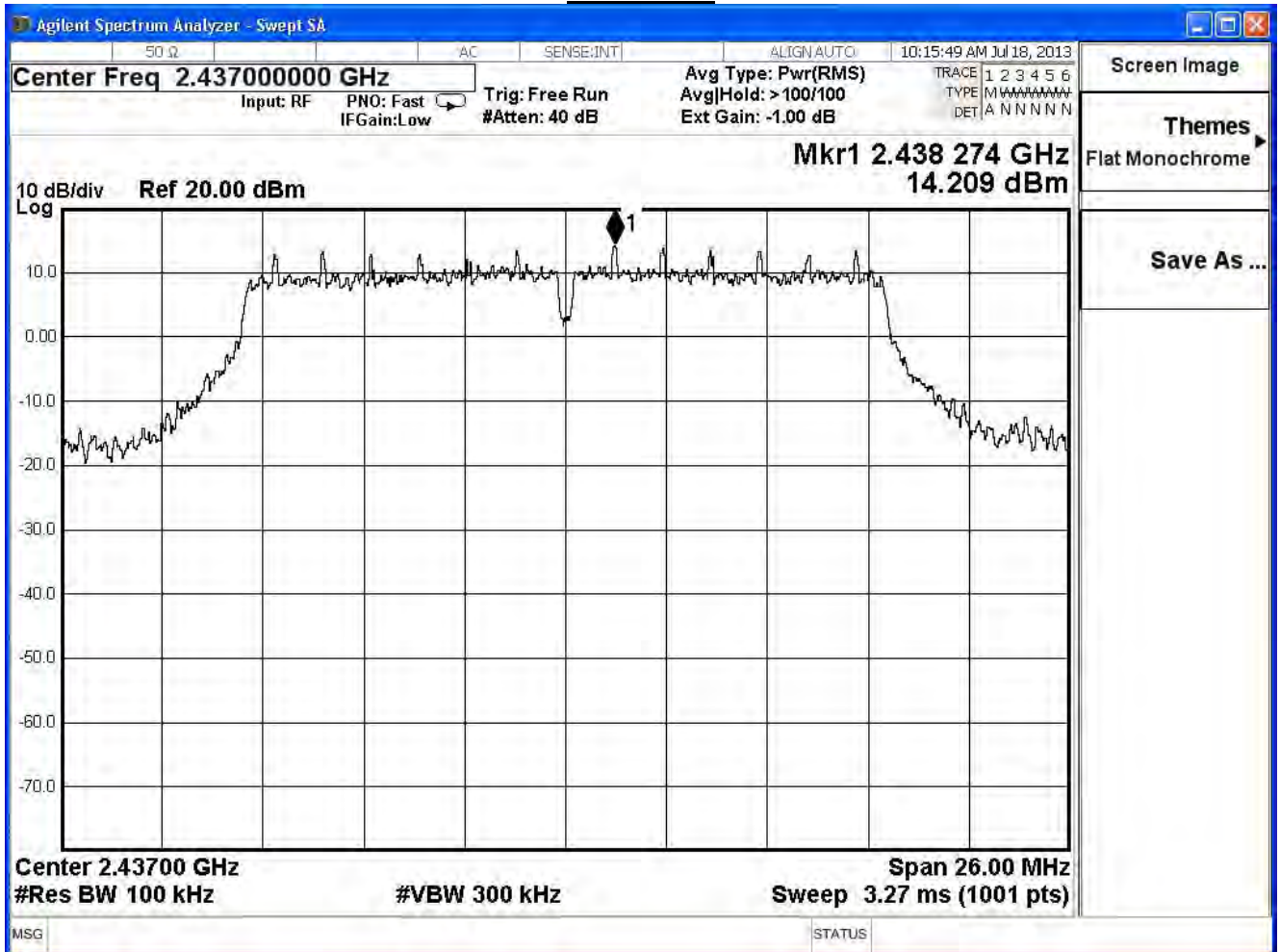
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 5: Transmit (SISO Mode)_Adapter: EXA1206UH		
Date of Test	2013/07/19	Test Site	SR7

IEEE 802.11g , 1TX mode (SISO)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
1	2412	9.27	-5.93	≤ 8	Pass
6	2437	14.20	-1.00	≤ 8	Pass
11	2462	7.07	-8.13	≤ 8	Pass

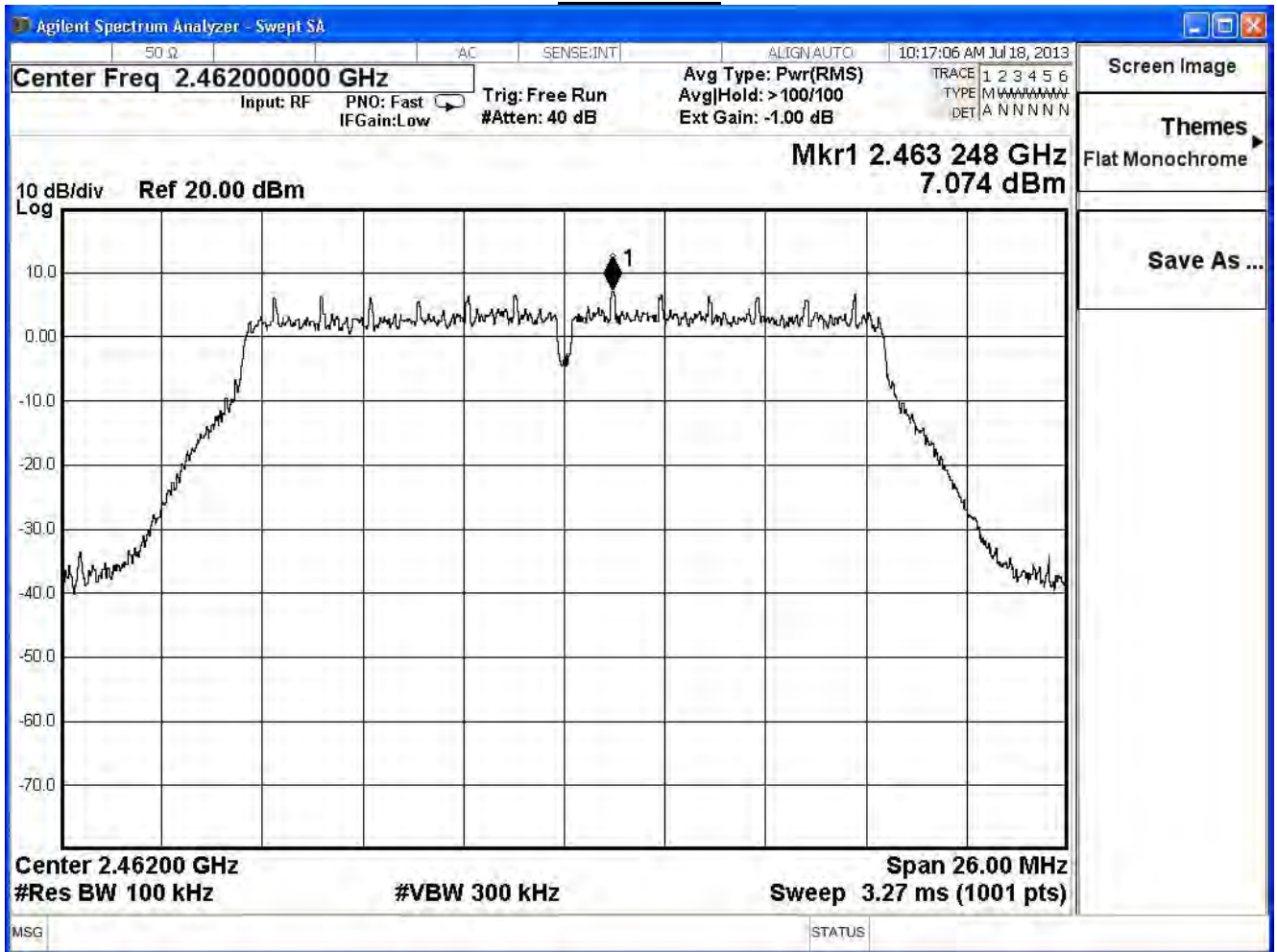
Channel 1



Channel 6



Channel 11



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2013/07/19	Test Site	SR7

IEEE802.11n_20MHz_(ANT 0)

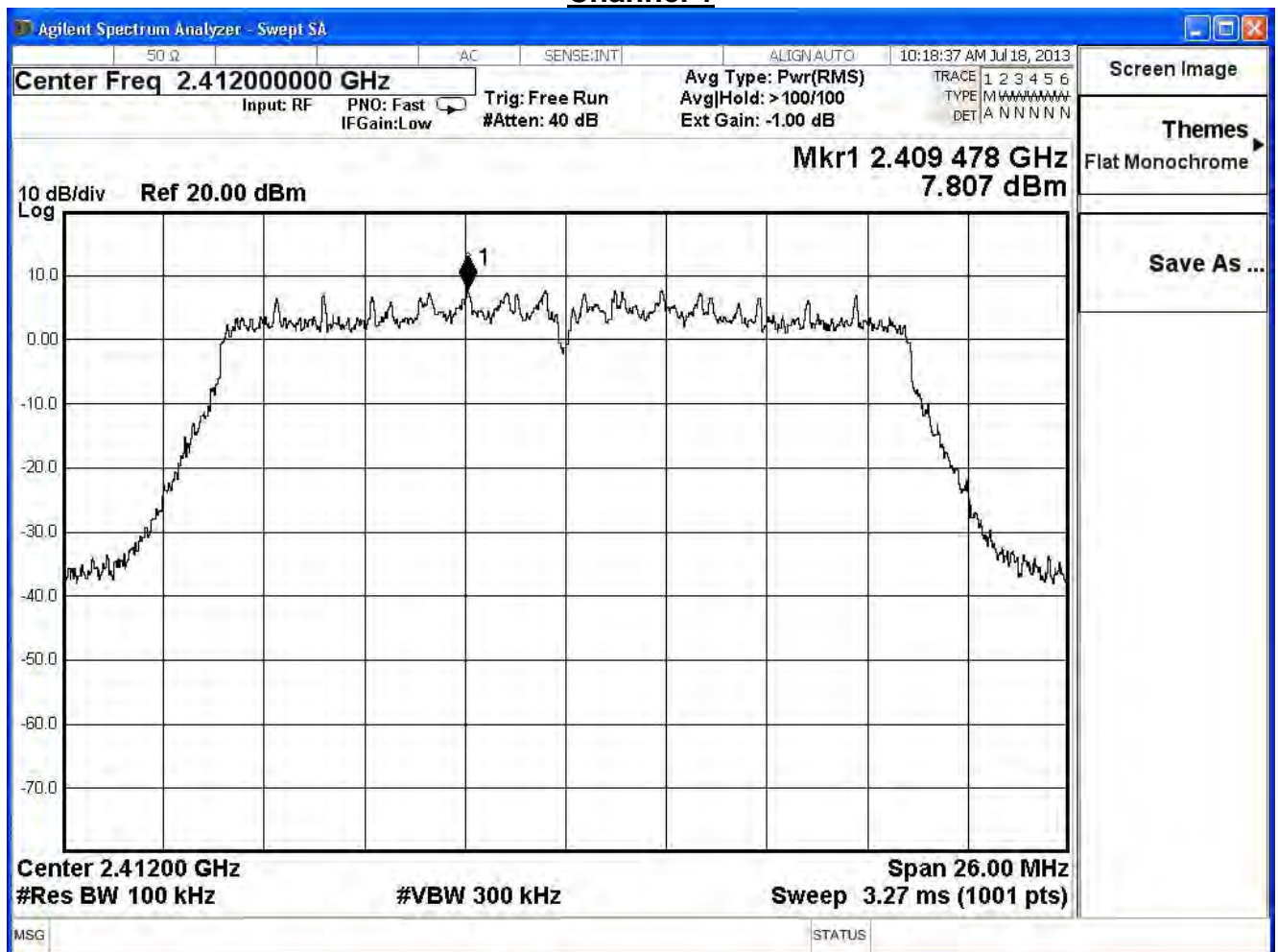
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	7.80	-7.40	≤ 7.32	Pass
6	2437	12.82	-2.38	≤ 7.32	Pass
11	2462	6.29	-8.91	≤ 7.32	Pass

Note:

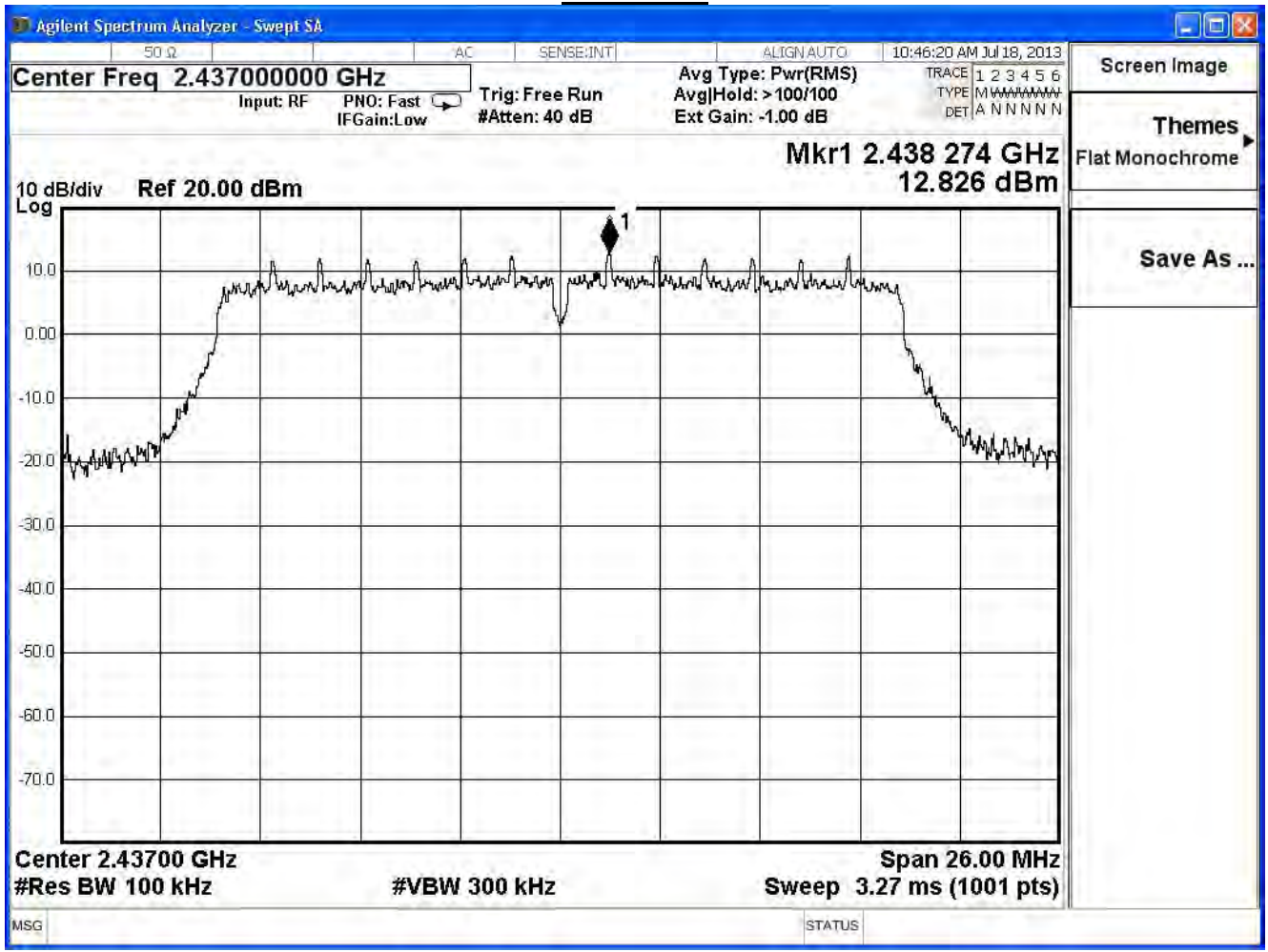
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

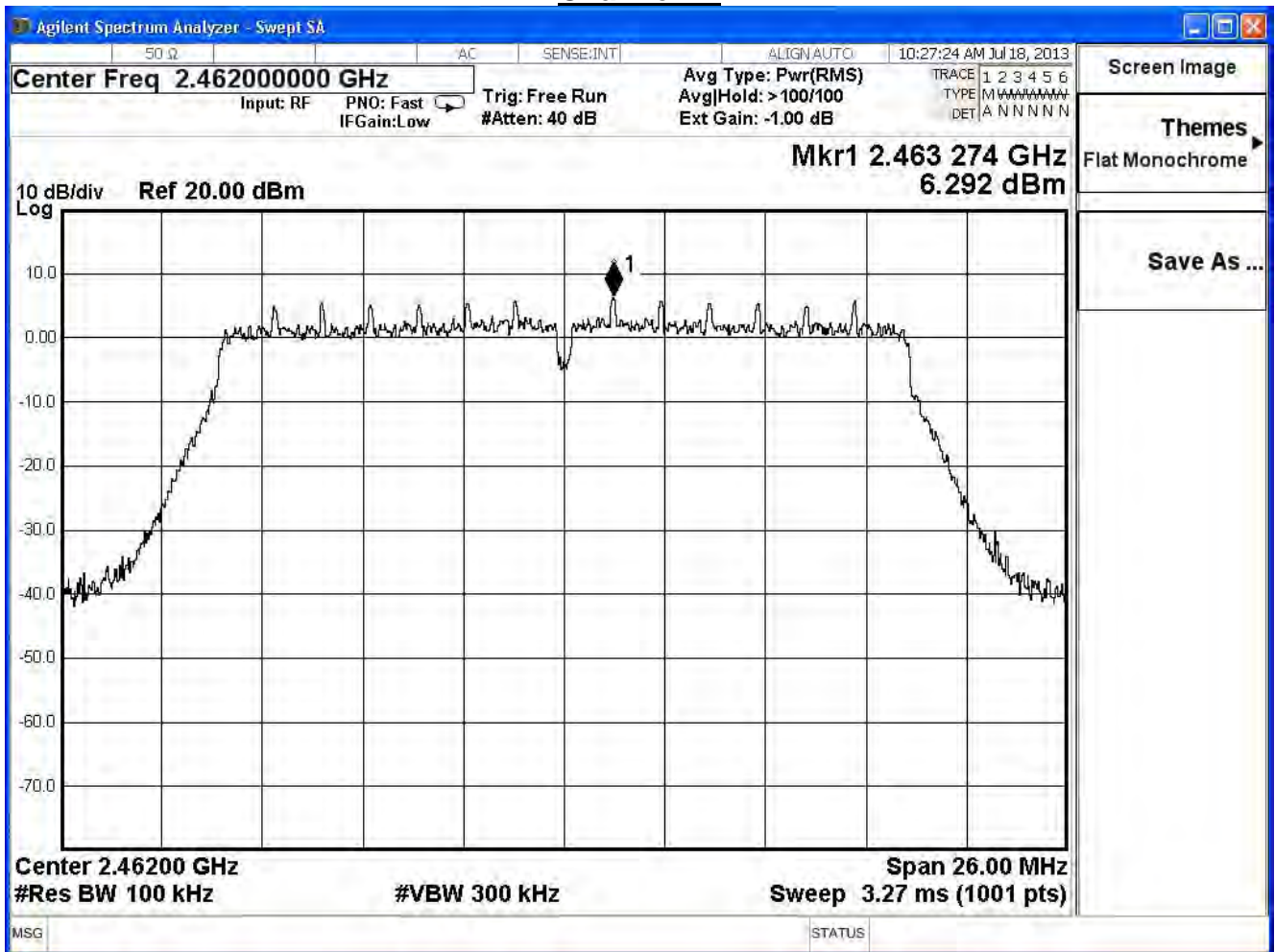
Channel 1



Channel 6



Channel 11



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2013/07/19	Test Site	SR7

IEEE802.11n_20MHz_(ANT 1)

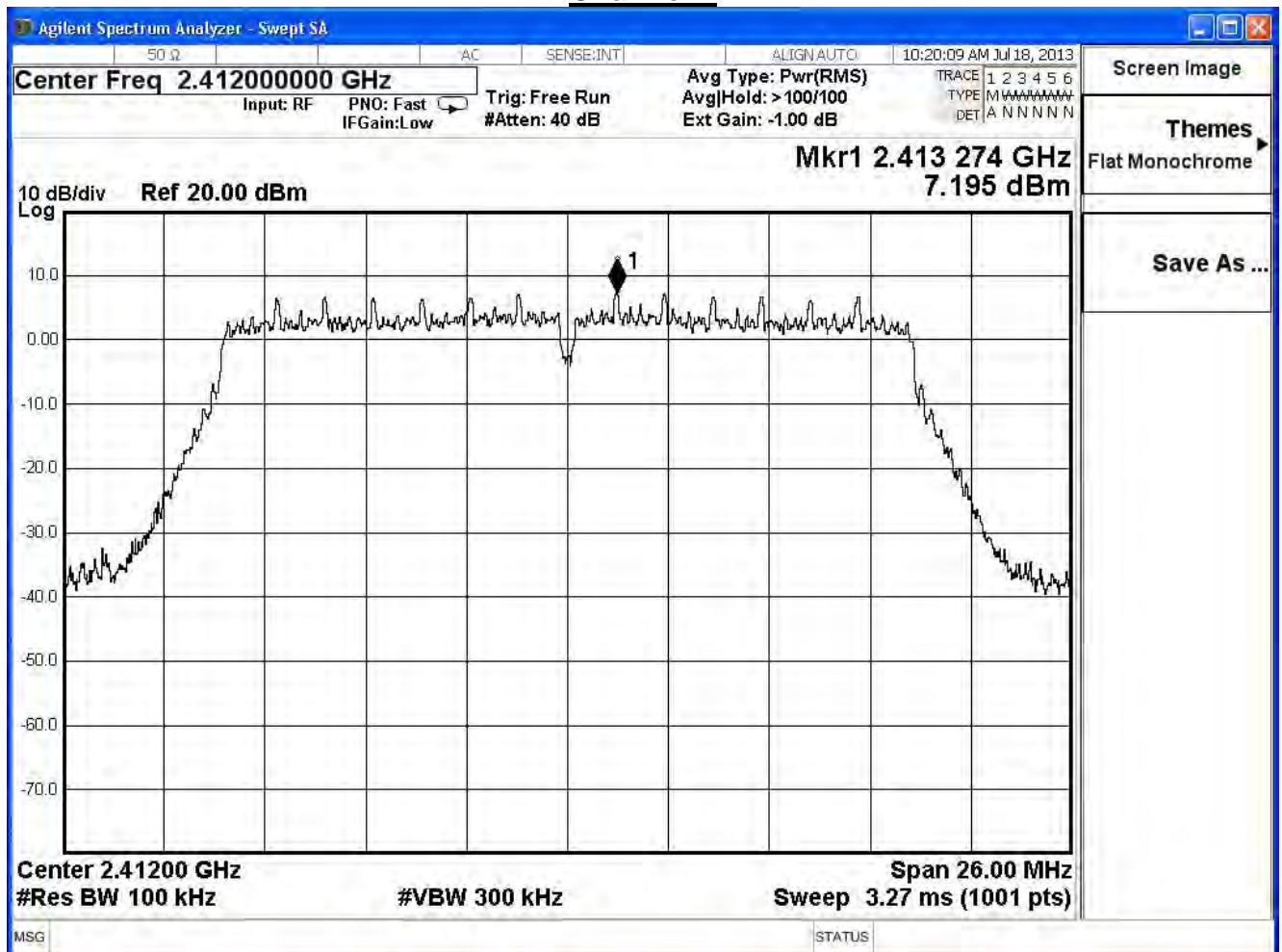
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
1	2412	7.19	-8.01	≤ 7.32	Pass
6	2437	12.00	-3.20	≤ 7.32	Pass
11	2462	6.47	-8.73	≤ 7.32	Pass

Note:

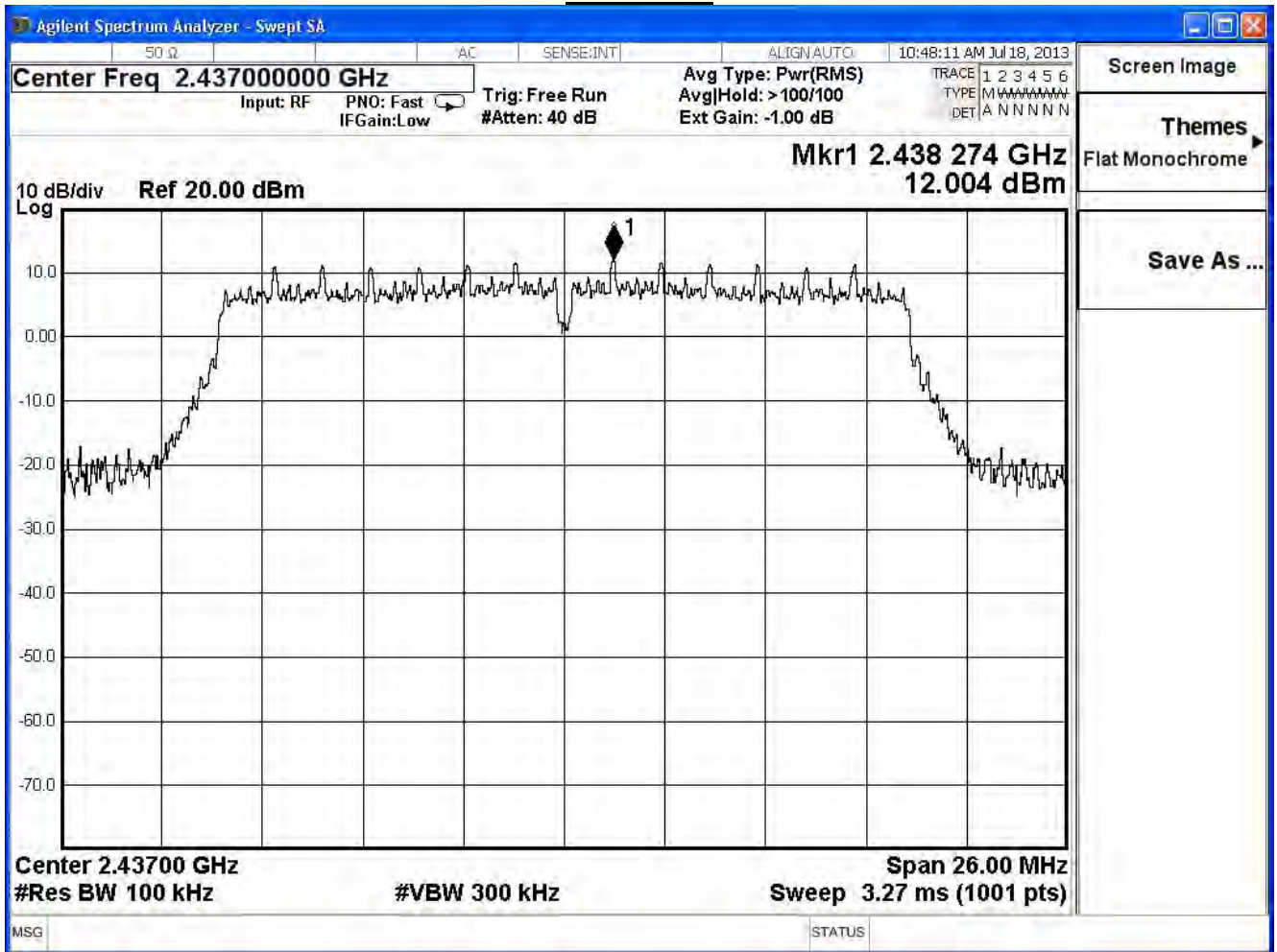
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBdBi}$

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

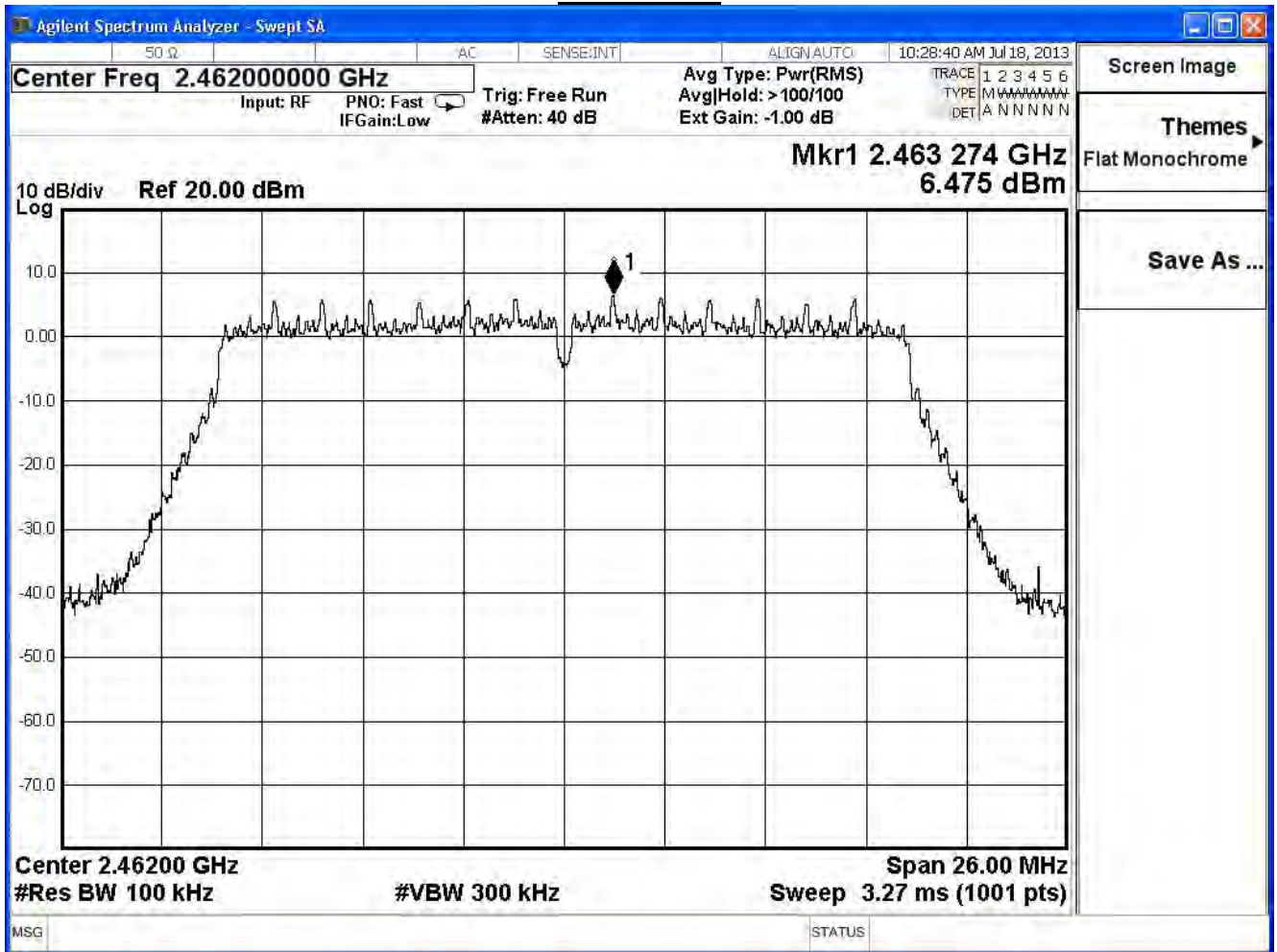
Channel 1



Channel 6



Channel 11



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2013/07/19	Test Site	SR7

IEEE802.11n_20MHz_(ANT 2)

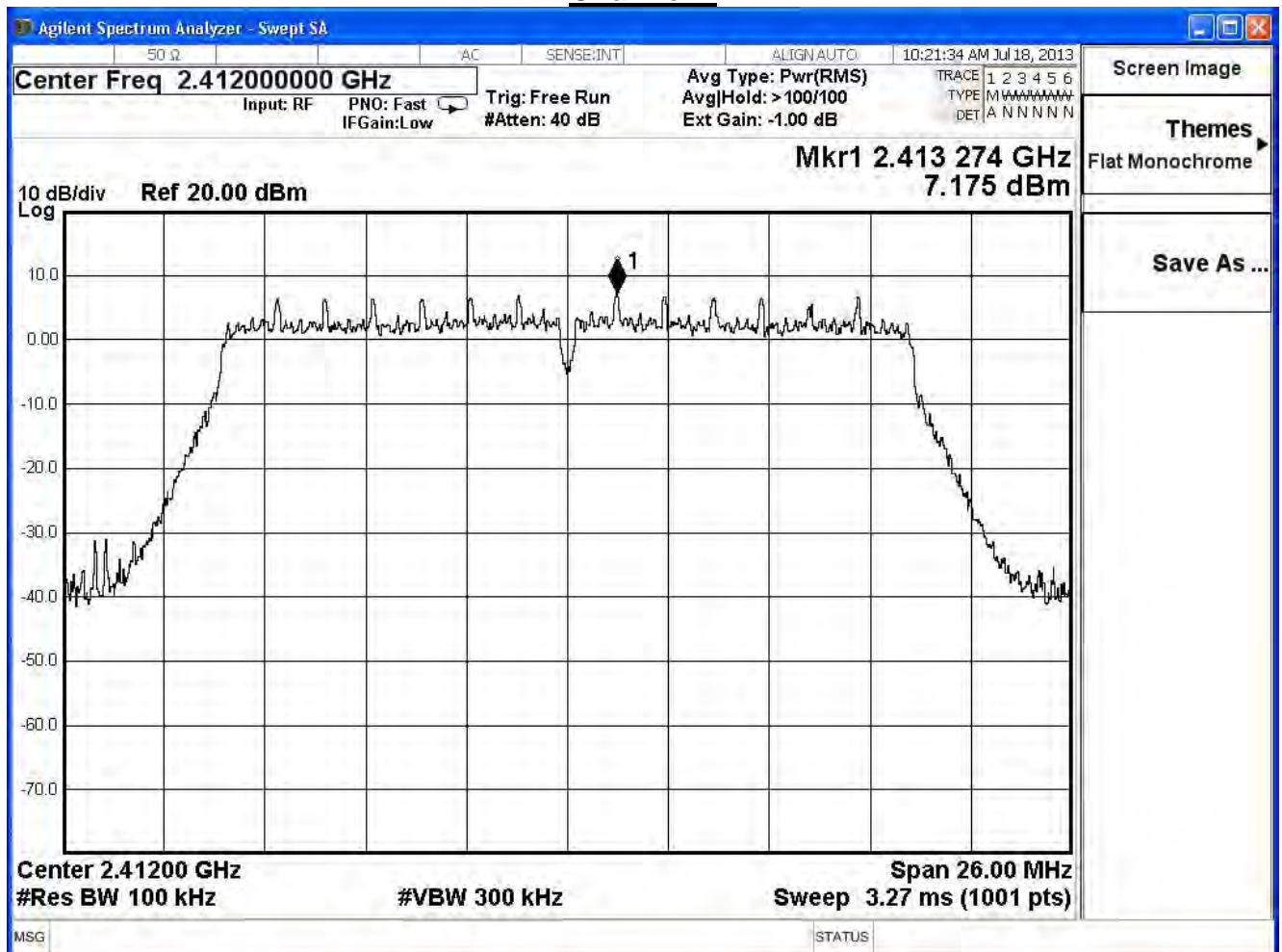
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
1	2412	7.17	-8.03	≤ 7.32	Pass
6	2437	11.88	-3.32	≤ 7.32	Pass
11	2462	6.21	-8.99	≤ 7.32	Pass

Note:

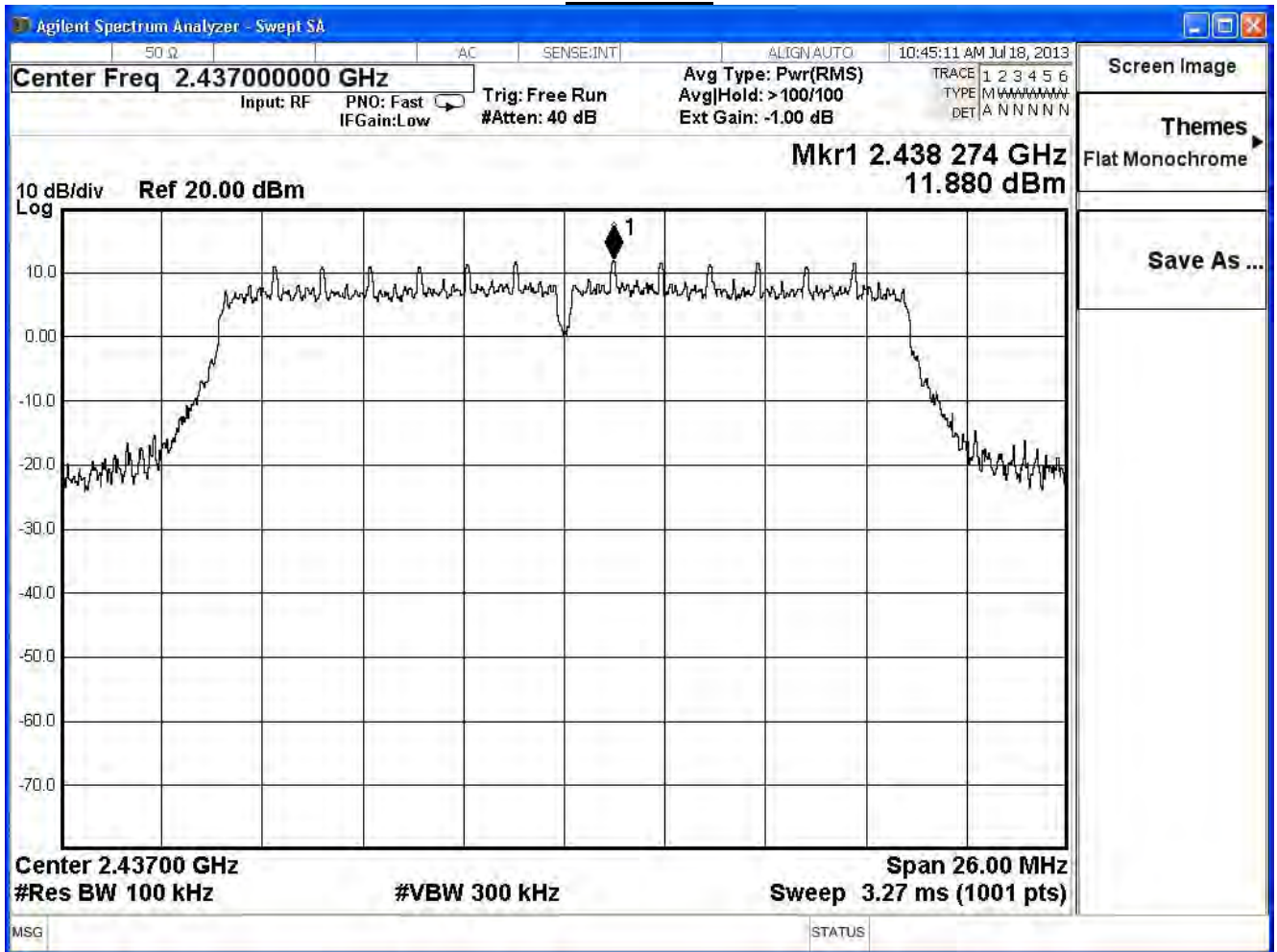
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

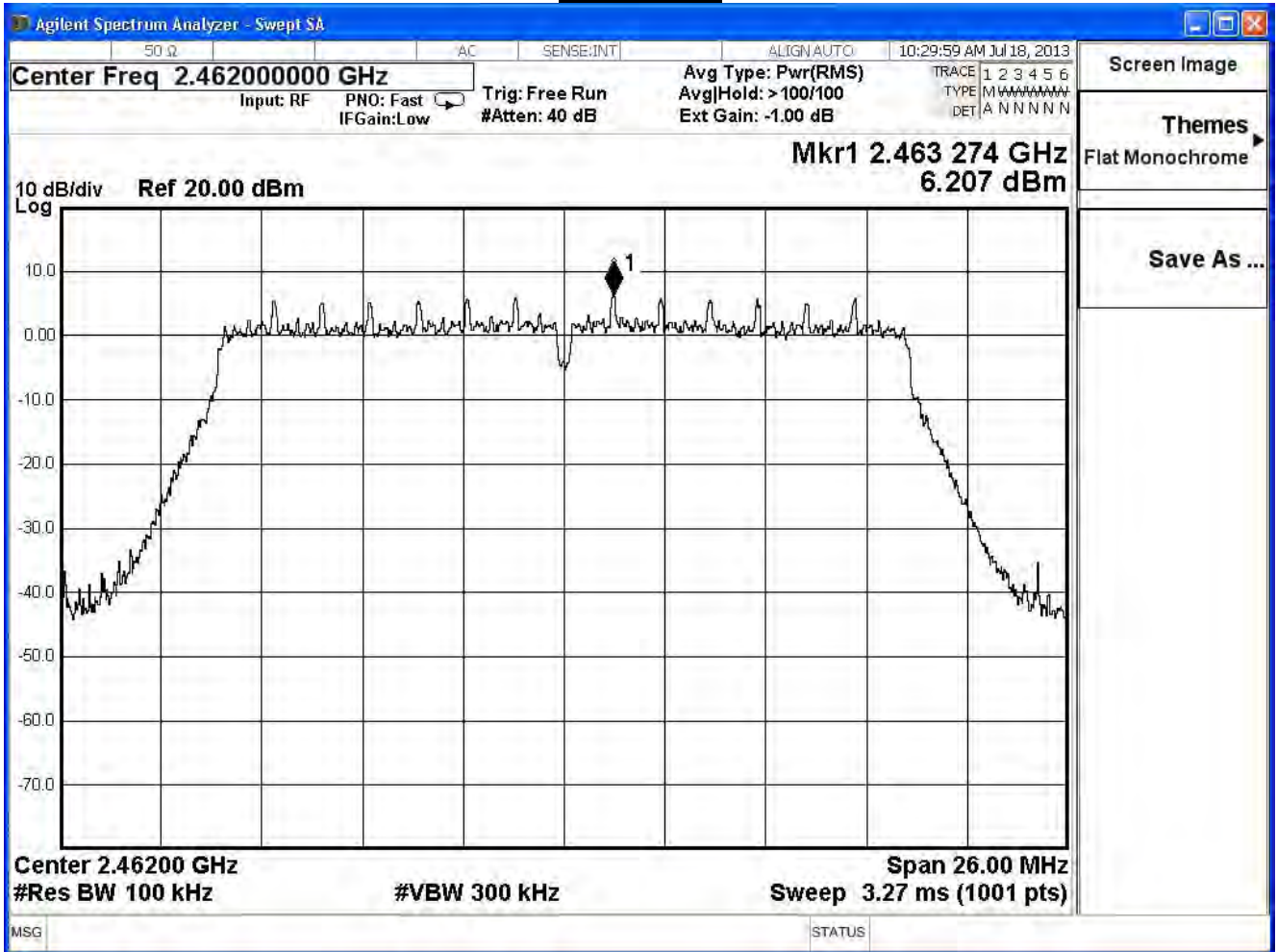
Channel 1



Channel 6



Channel 11



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2013/07/19	Test Site	SR7

IEEE802.11n 20MHz (ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-3.03	≤ 7.32	Pass
6	2437	1.83	≤ 7.32	Pass
11	2462	-4.11	≤ 7.32	Pass

Note:

Directional Antenna Gain = $10\log(3) + \max \text{Gain} = 6.68\text{dBi}$

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

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/01/22	Test Site	SR7

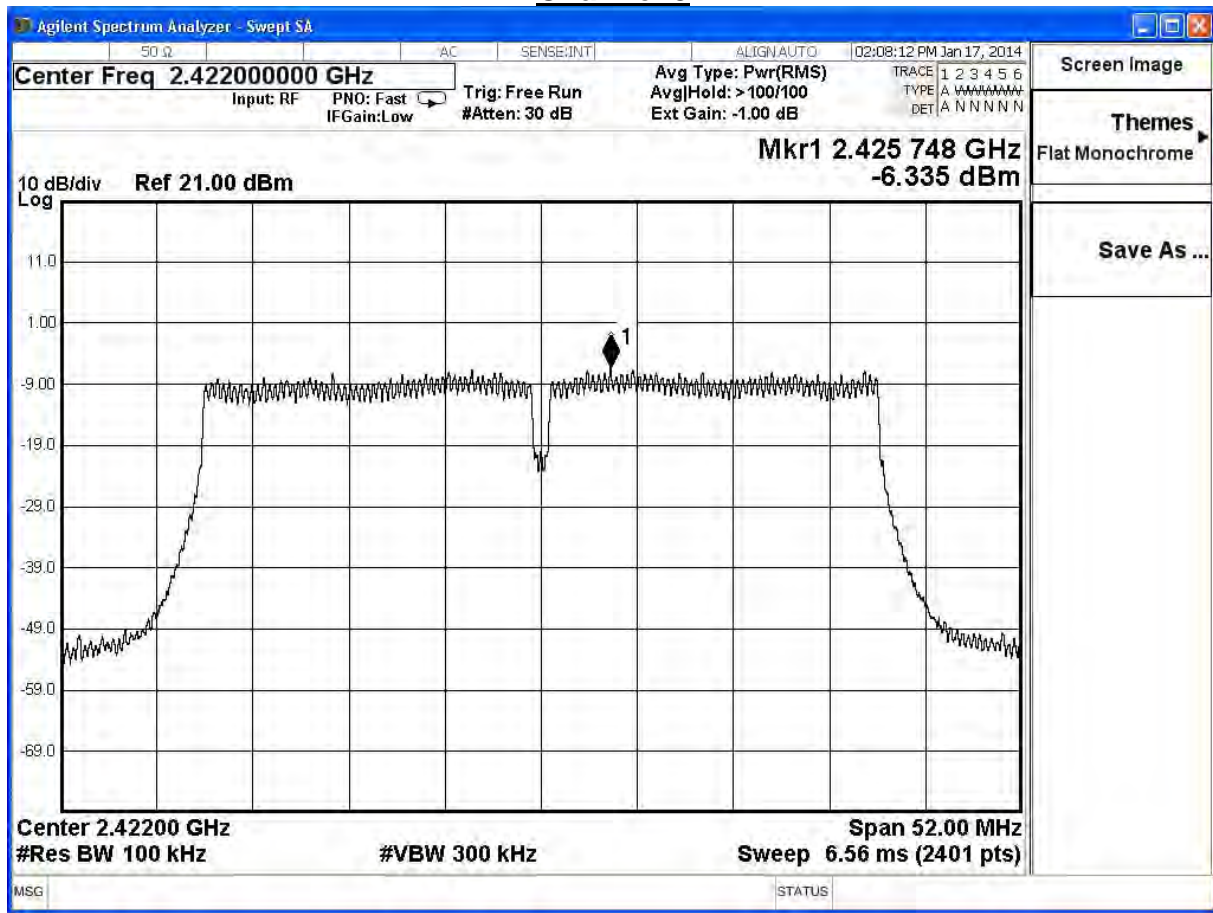
IEEE 802.11n_40MHz (ANT 0)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measurement (dBm)	Limit (dBm)	Result
3	2422	-6.335	-21.535	≤ 7.32	Pass
6	2437	-3.881	-19.081	≤ 7.32	Pass
9	2452	-7.956	-23.156	≤ 7.32	Pass

Note:

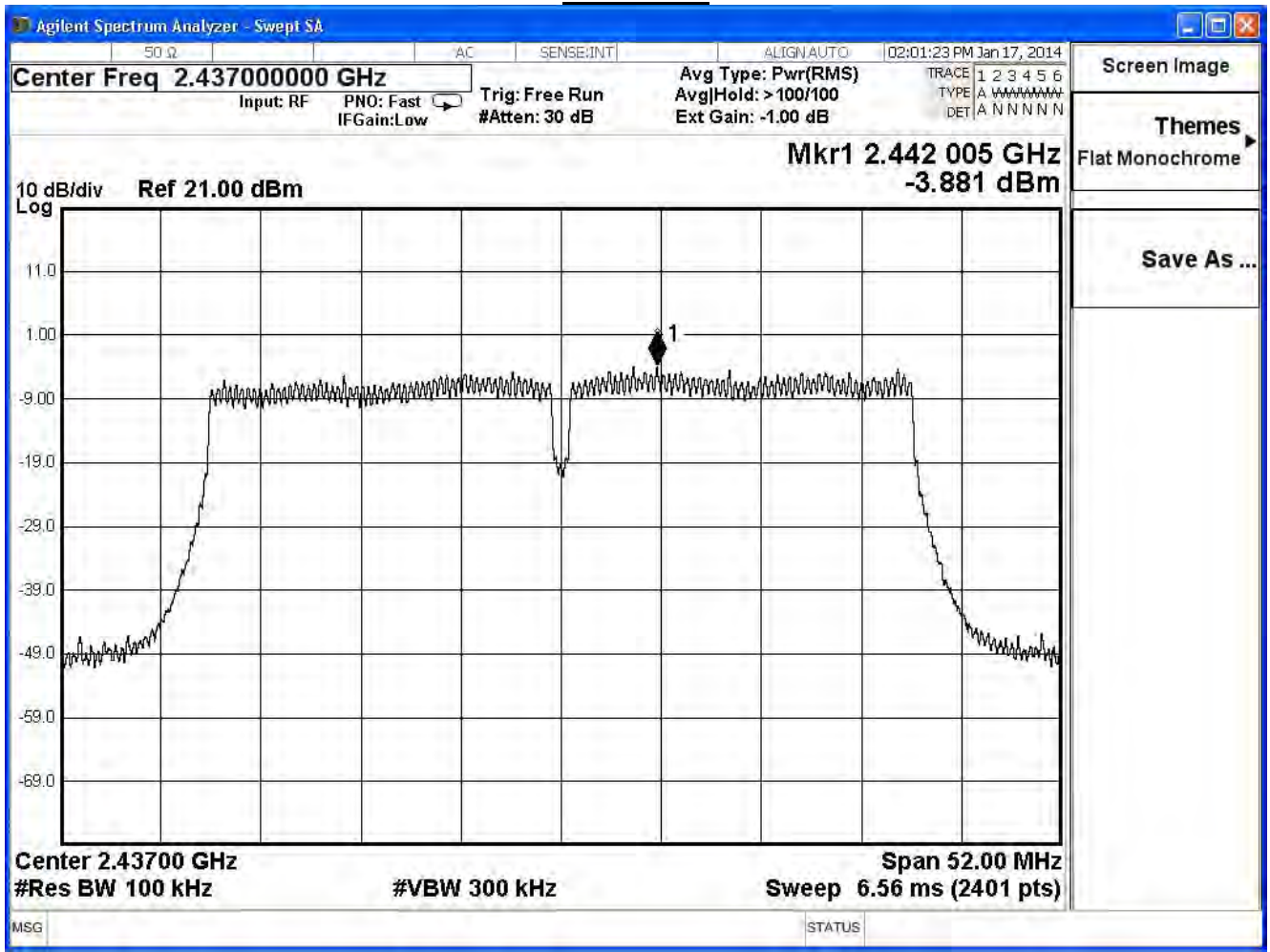
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

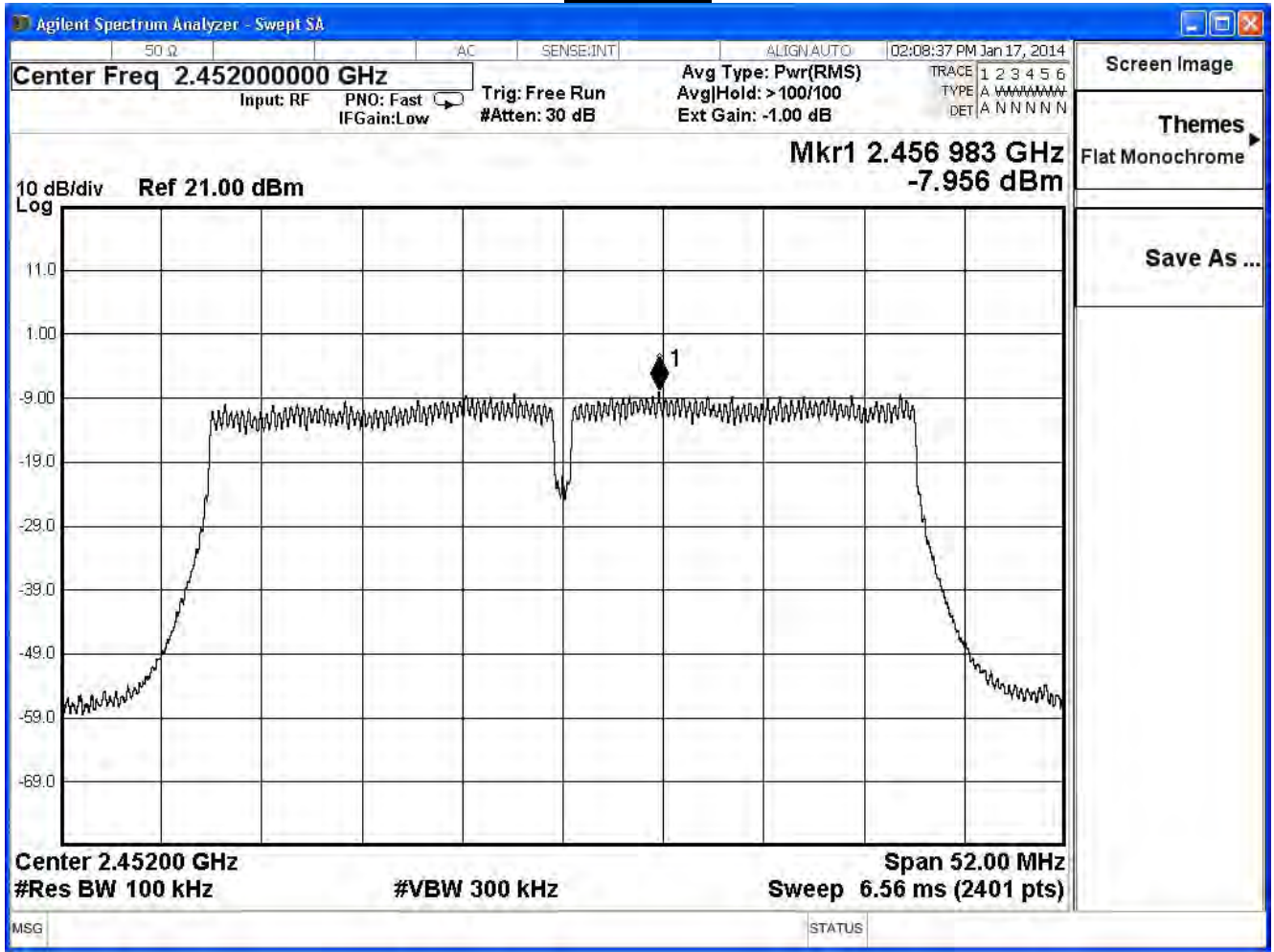
Channel 3



Channel 6



Channel 9



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/01/22	Test Site	SR7

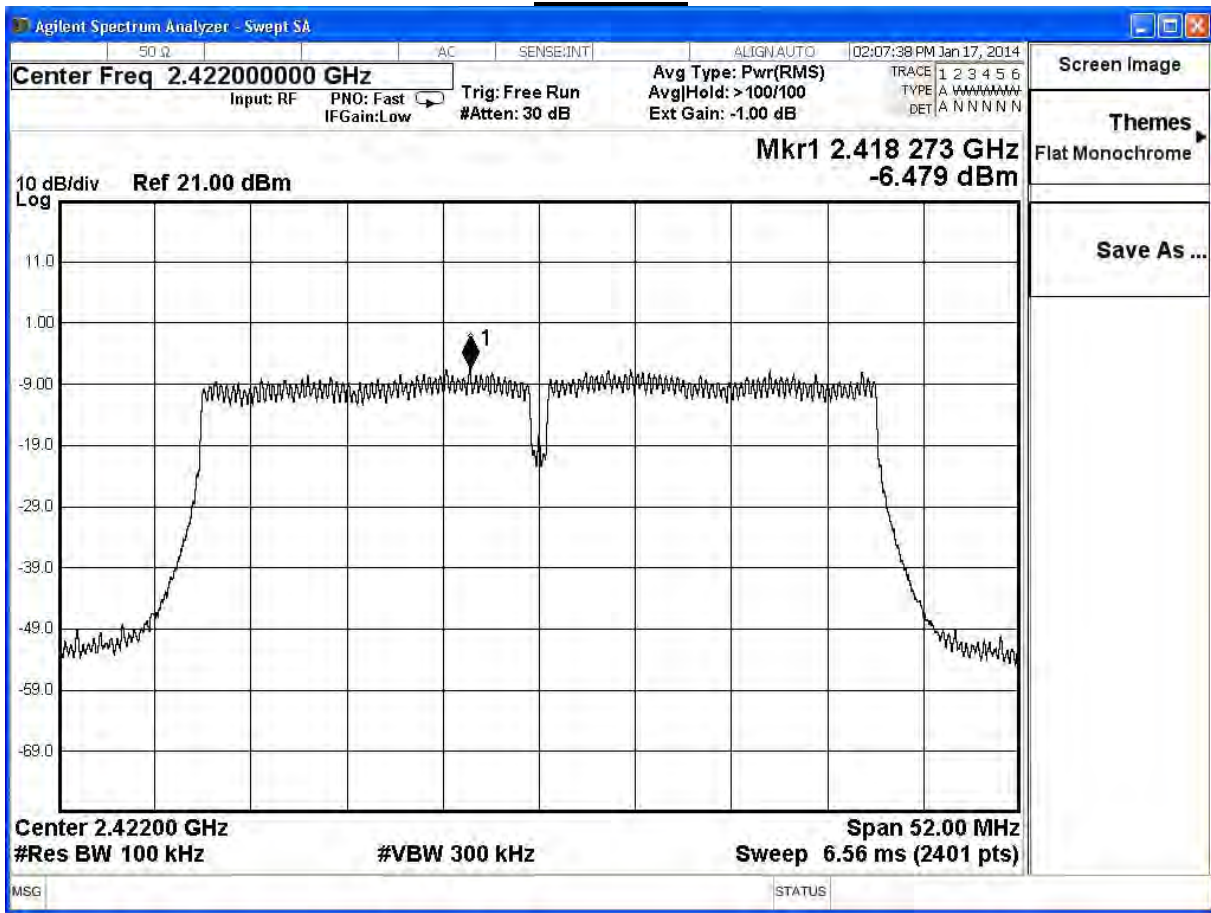
IEEE 802.11n_40MHz (ANT 1)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-6.479	-21.679	≤7.32	Pass
6	2437	-4.671	-19.871	≤7.32	Pass
9	2452	-8.177	-23.377	≤7.32	Pass

Note:

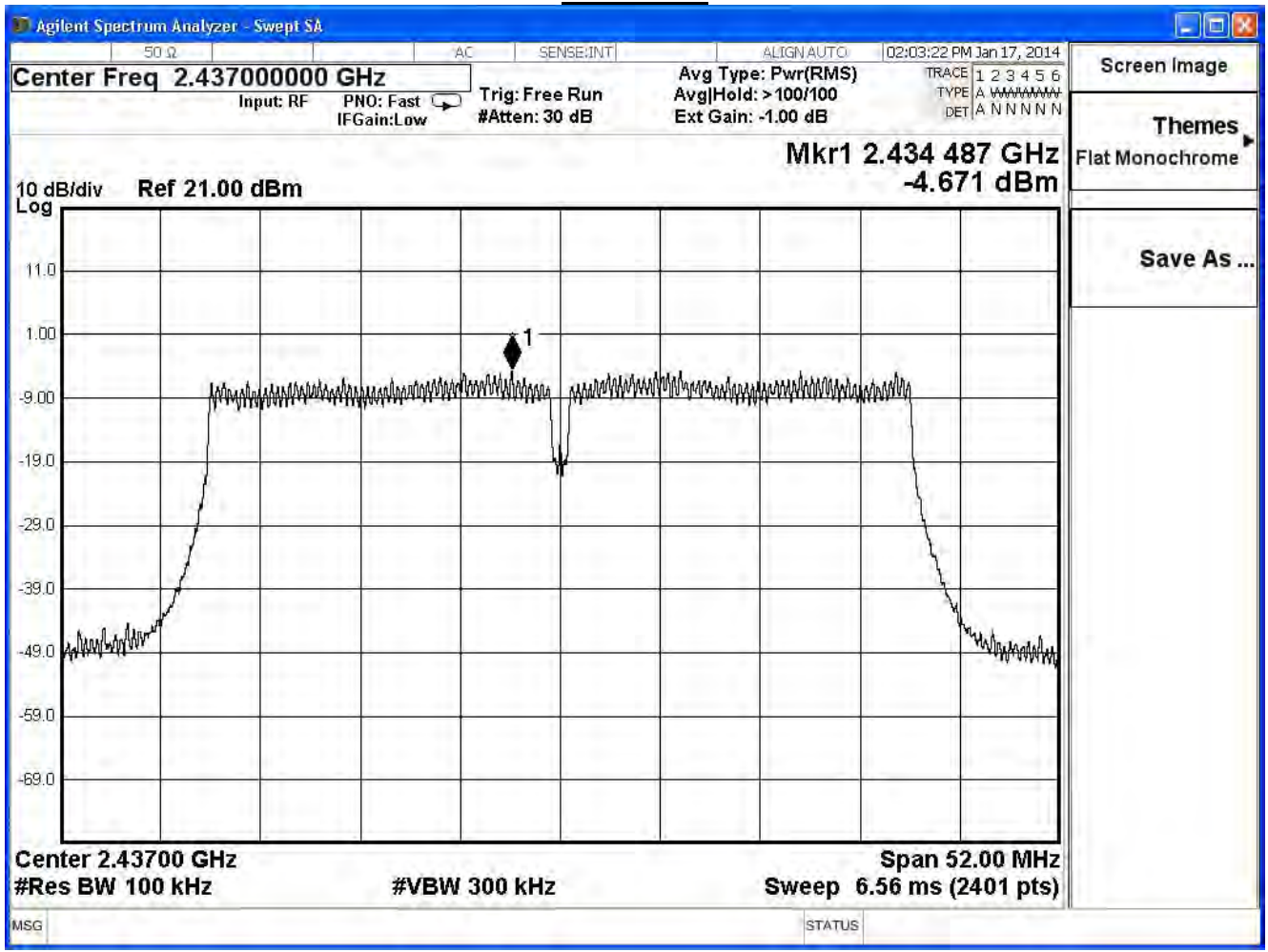
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

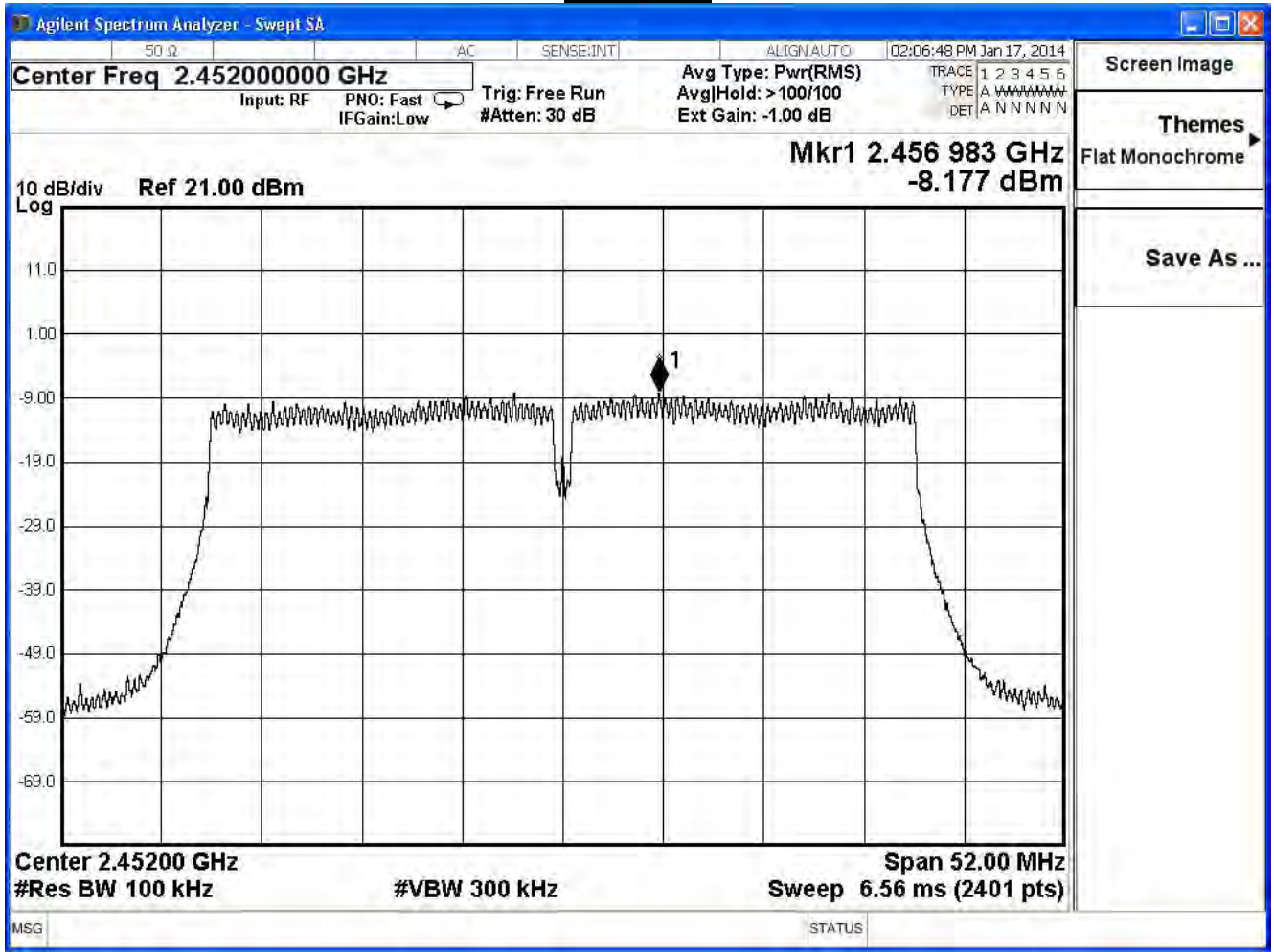
Channel 3



Channel 6



Channel 9



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/01/22	Test Site	SR7

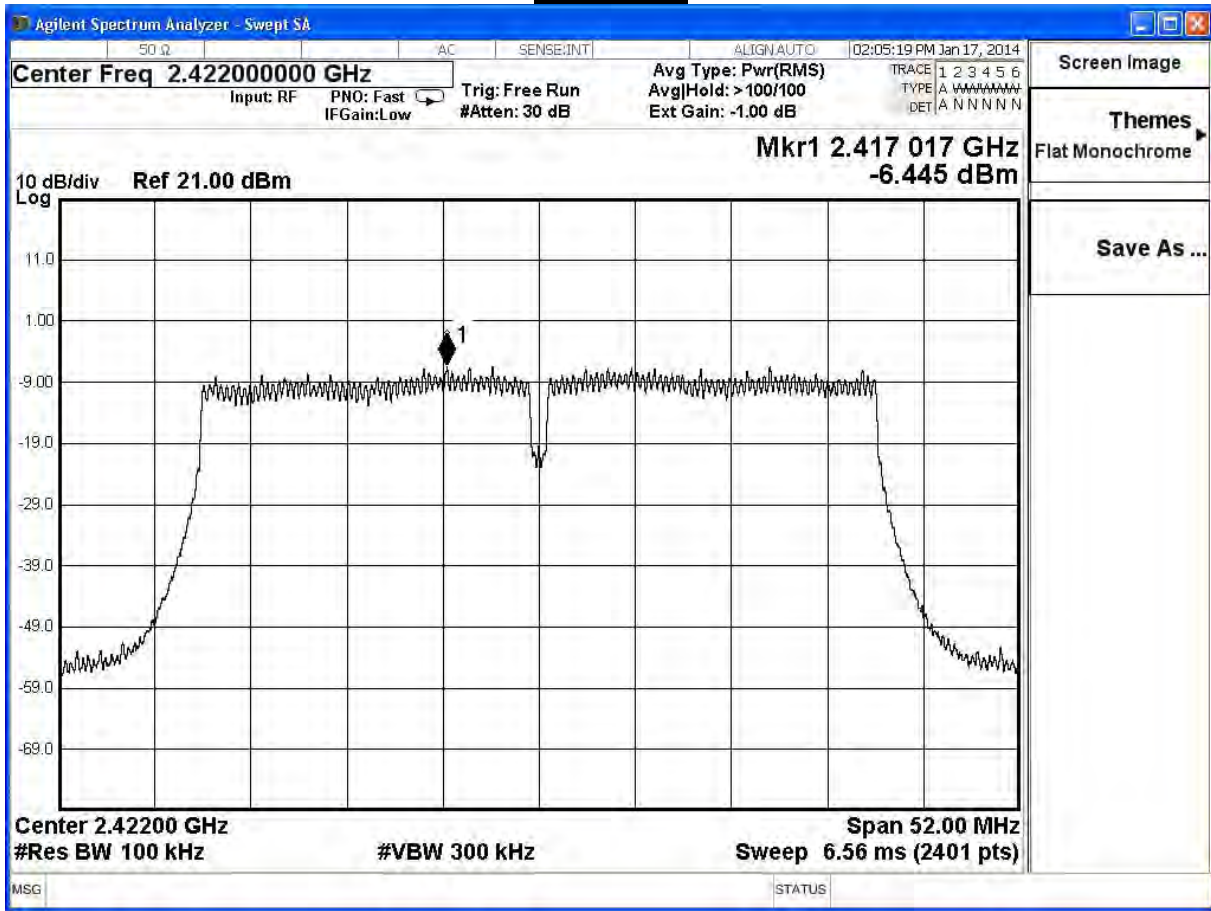
IEEE 802.11n_40MHz (ANT 2)					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-6.445	-21.645	≤ 7.32	Pass
6	2437	-4.697	-19.897	≤ 7.32	Pass
9	2452	-8.234	-23.434	≤ 7.32	Pass

Note:

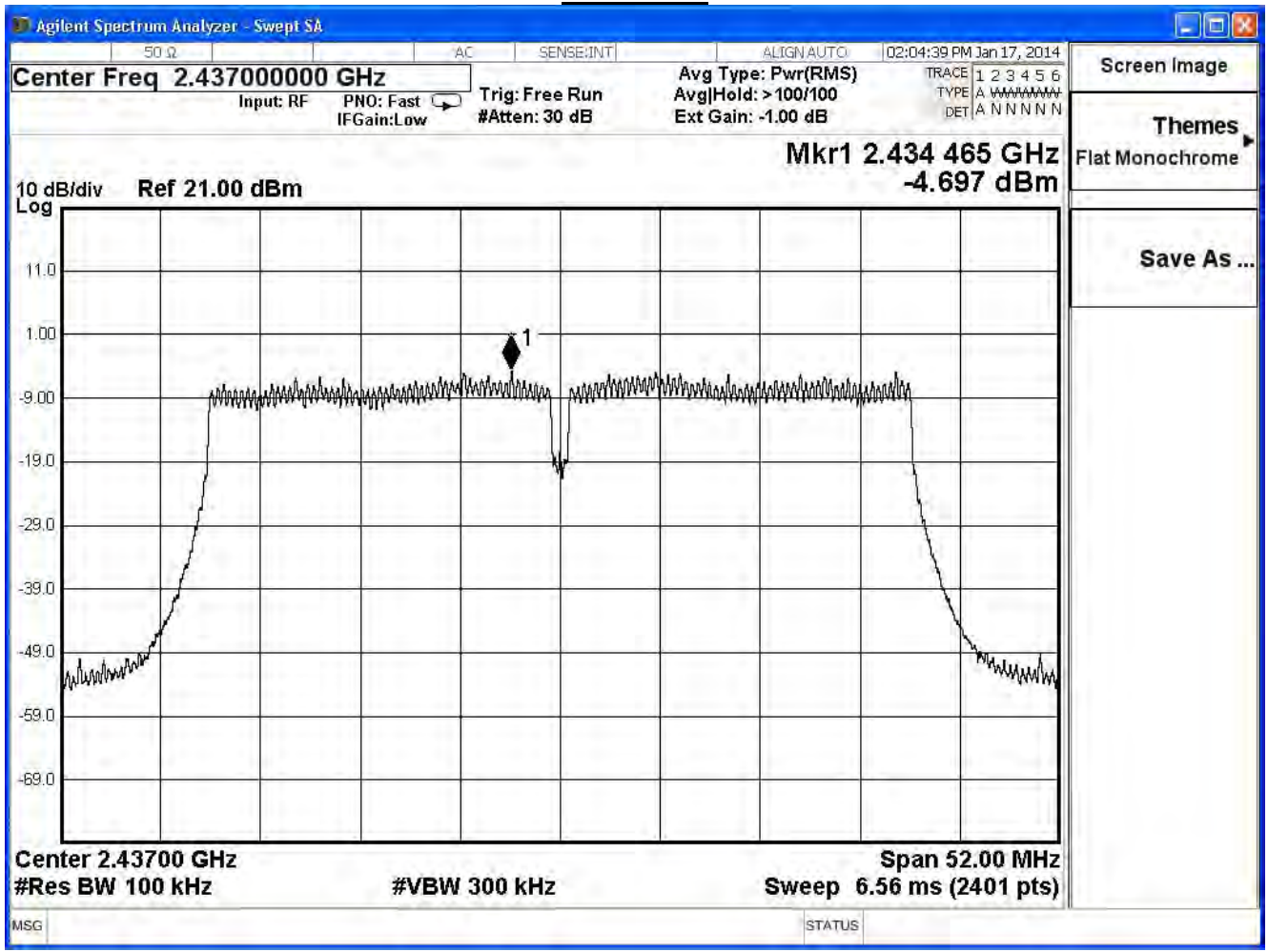
Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBi}$

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

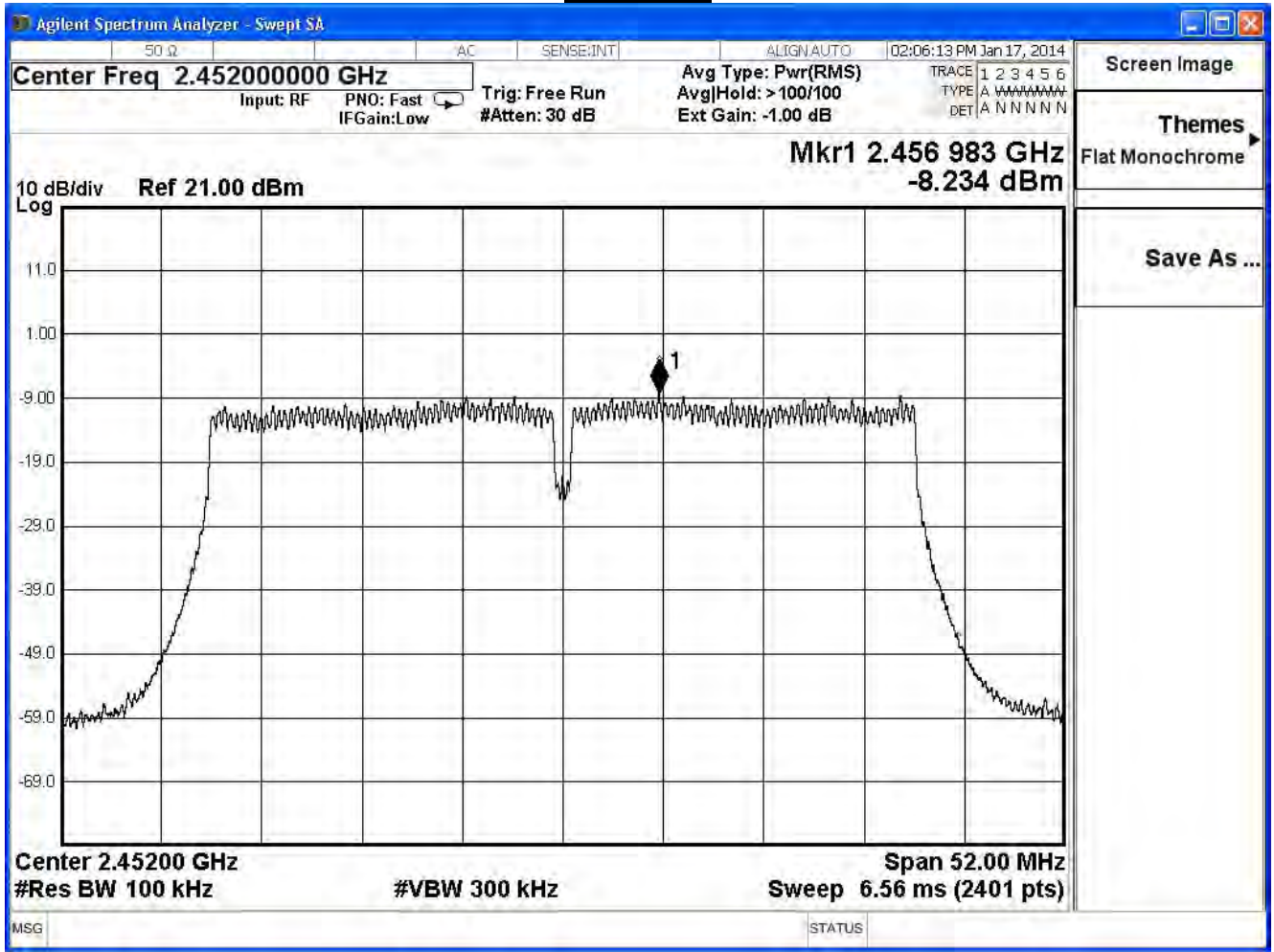
Channel 3



Channel 6



Channel 9



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/01/22	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-16.848	≤ 7.32	Pass
6	2437	-14.828	≤ 7.32	Pass
9	2452	-18.549	≤ 7.32	Pass

Note:

Directional Antenna Gain = $10\log(3) + \text{max Gain} = 6.68\text{dBdBi}$

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

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11n_20MHz_(ANT 0)

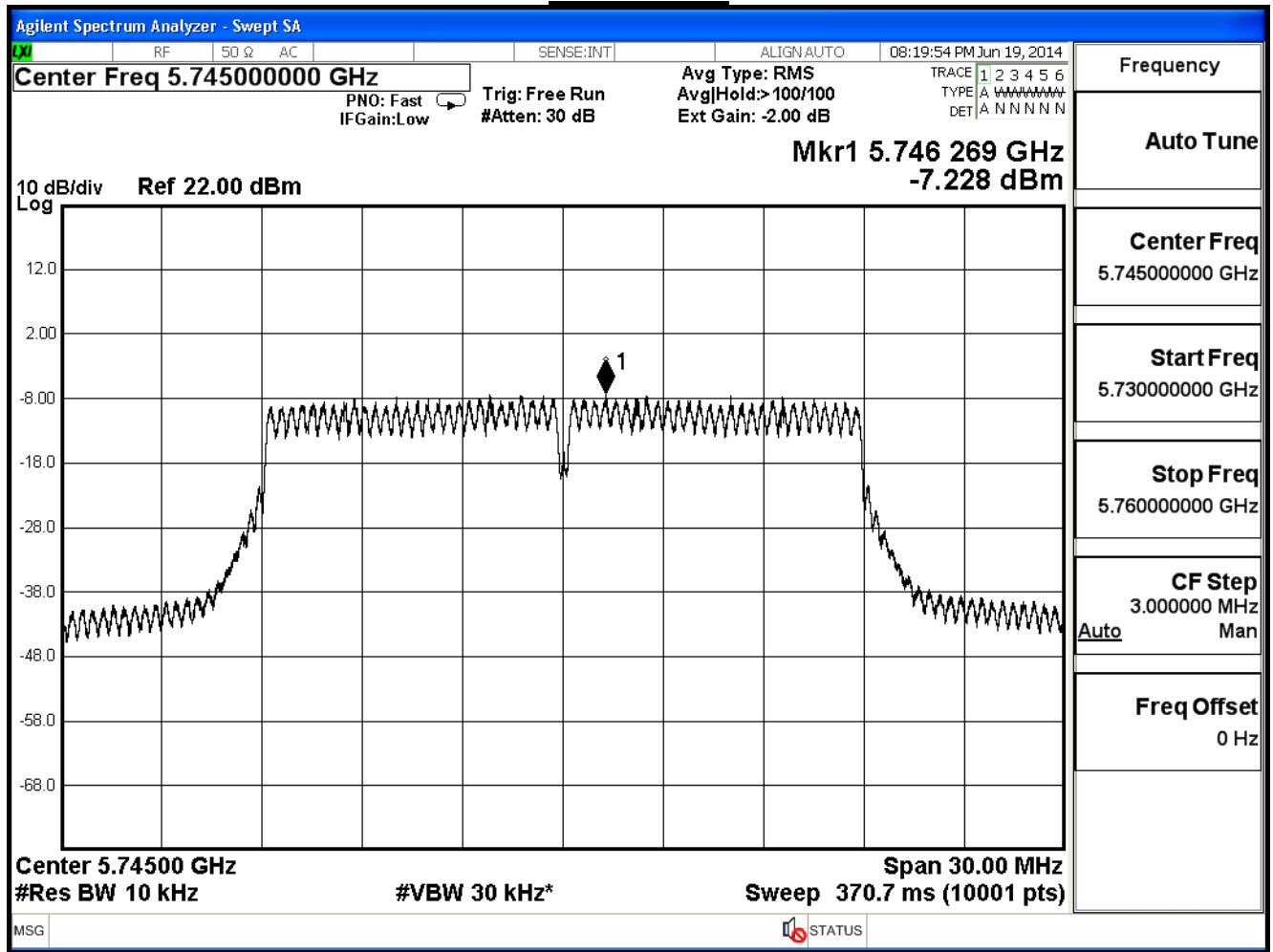
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
149	5745	-7.228	≤ 5.19	Pass
157	5785	-7.124	≤ 5.19	Pass
165	5825	-6.932	≤ 5.19	Pass

Note:

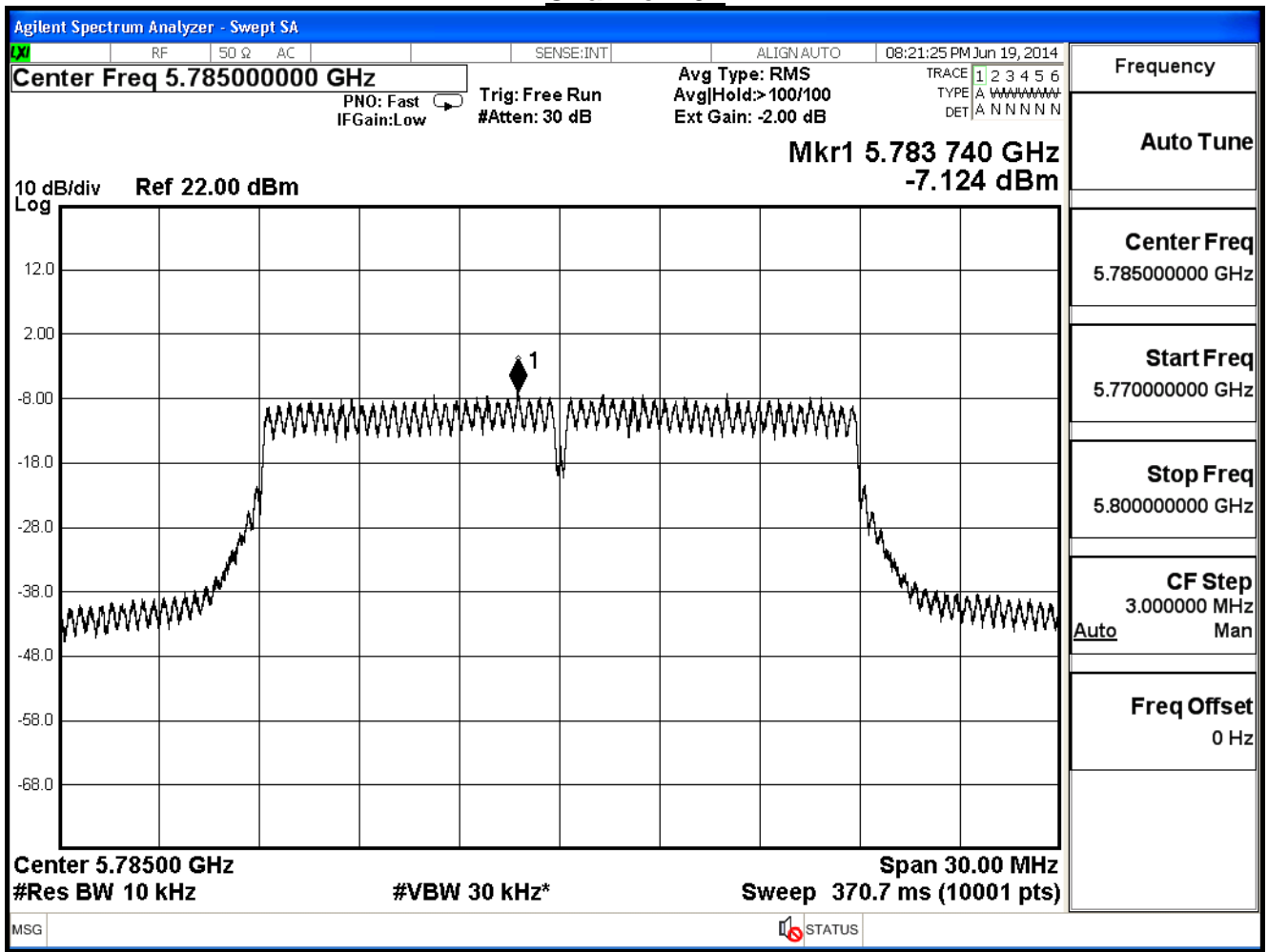
Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

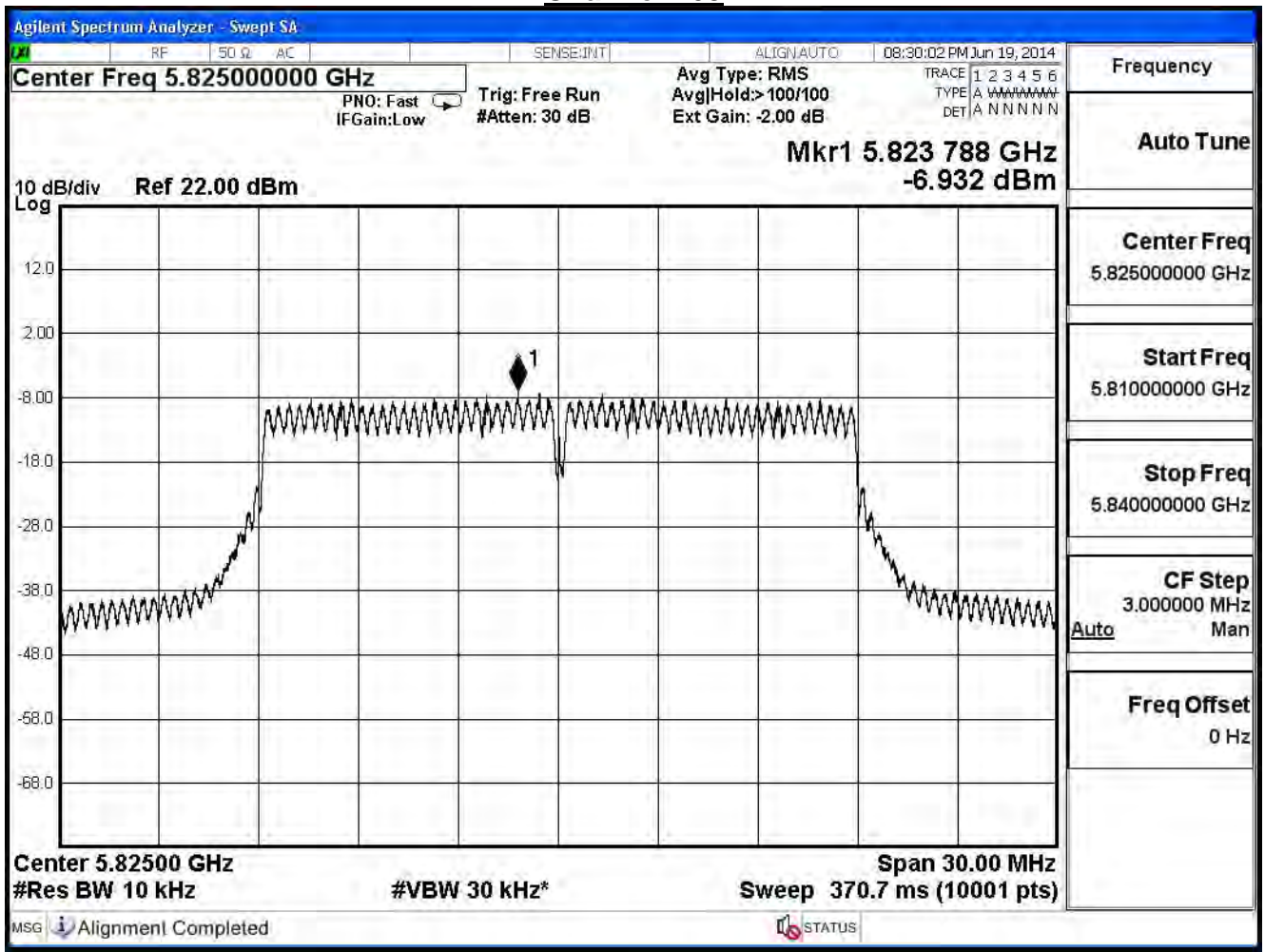
Channel 149



Channel 157



Channel 165



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11n_20MHz_(ANT 1)

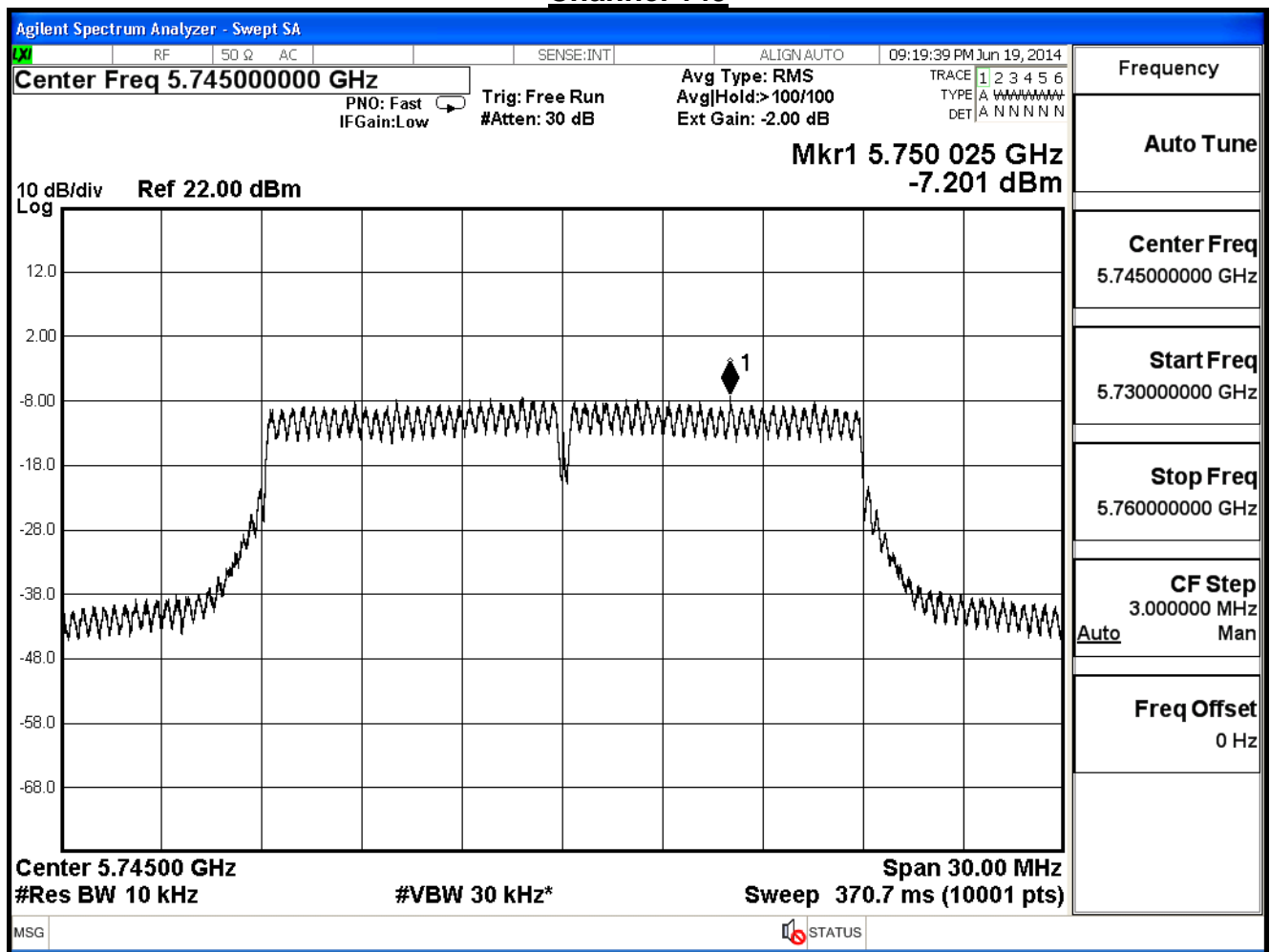
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-7.201	≤ 5.19	Pass
157	5785	-7.518	≤ 5.19	Pass
165	5825	-6.836	≤ 5.19	Pass

Note:

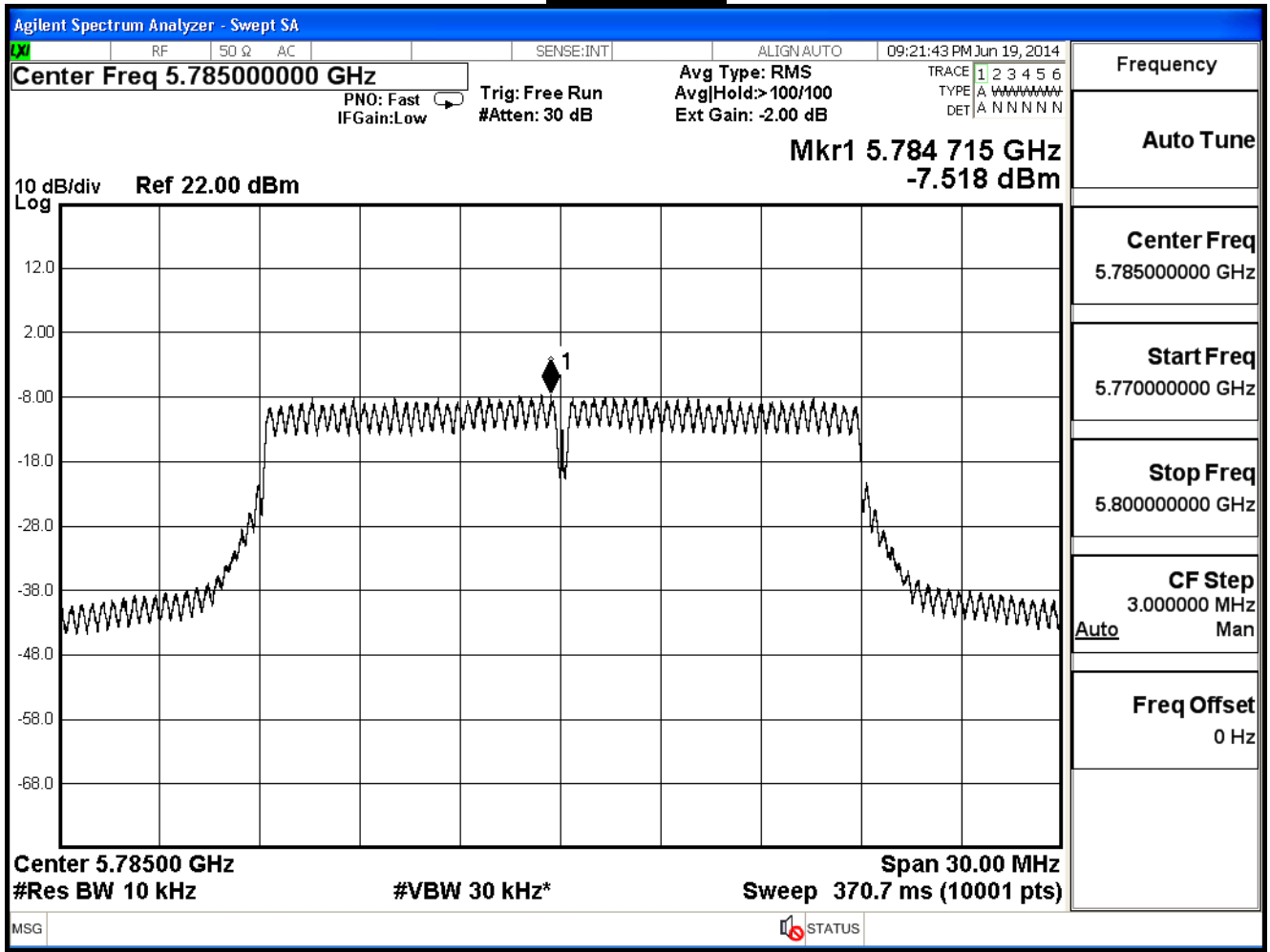
Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

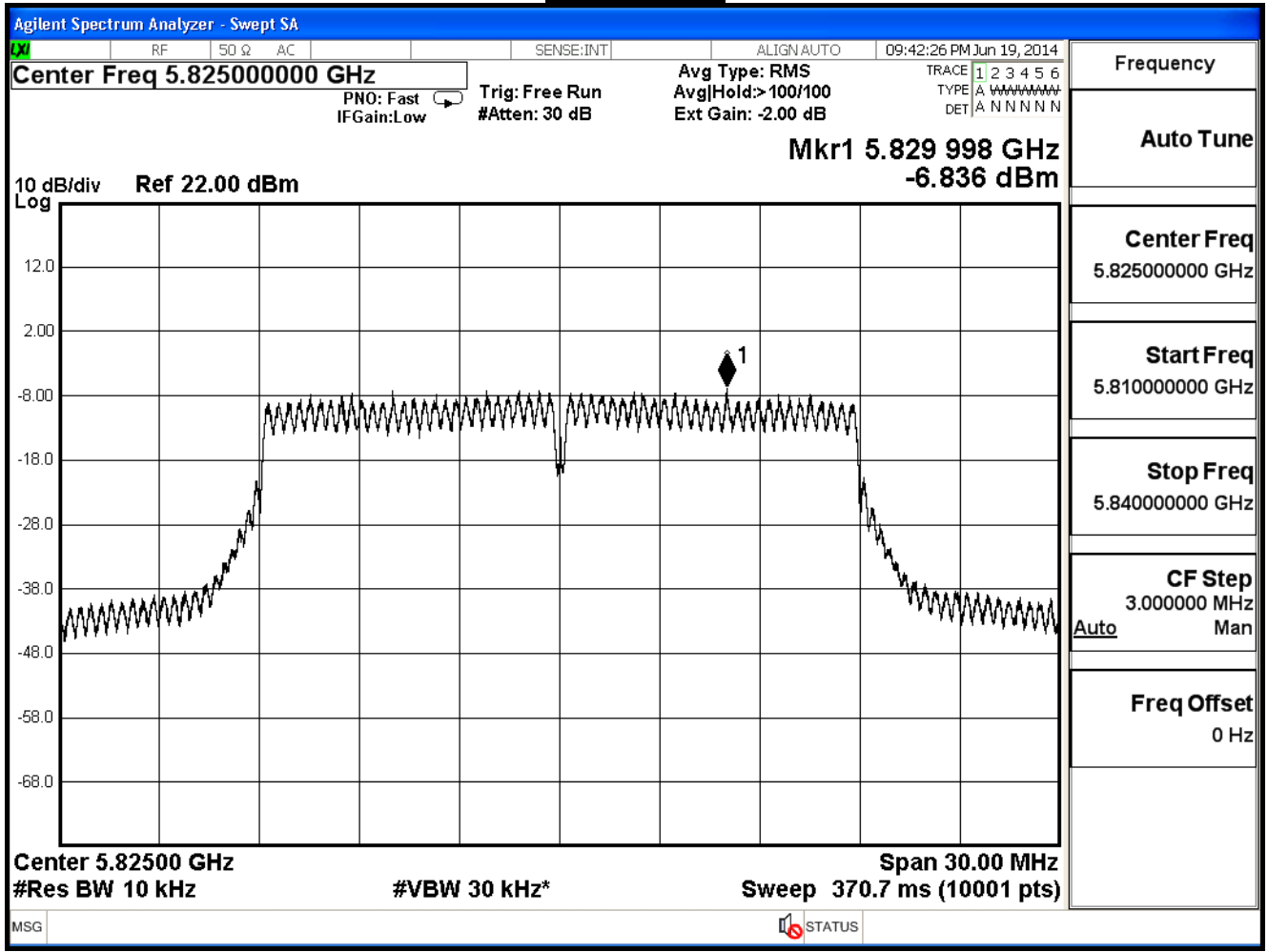
Channel 149



Channel 157



Channel 165



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11n_20MHz_(ANT 2)

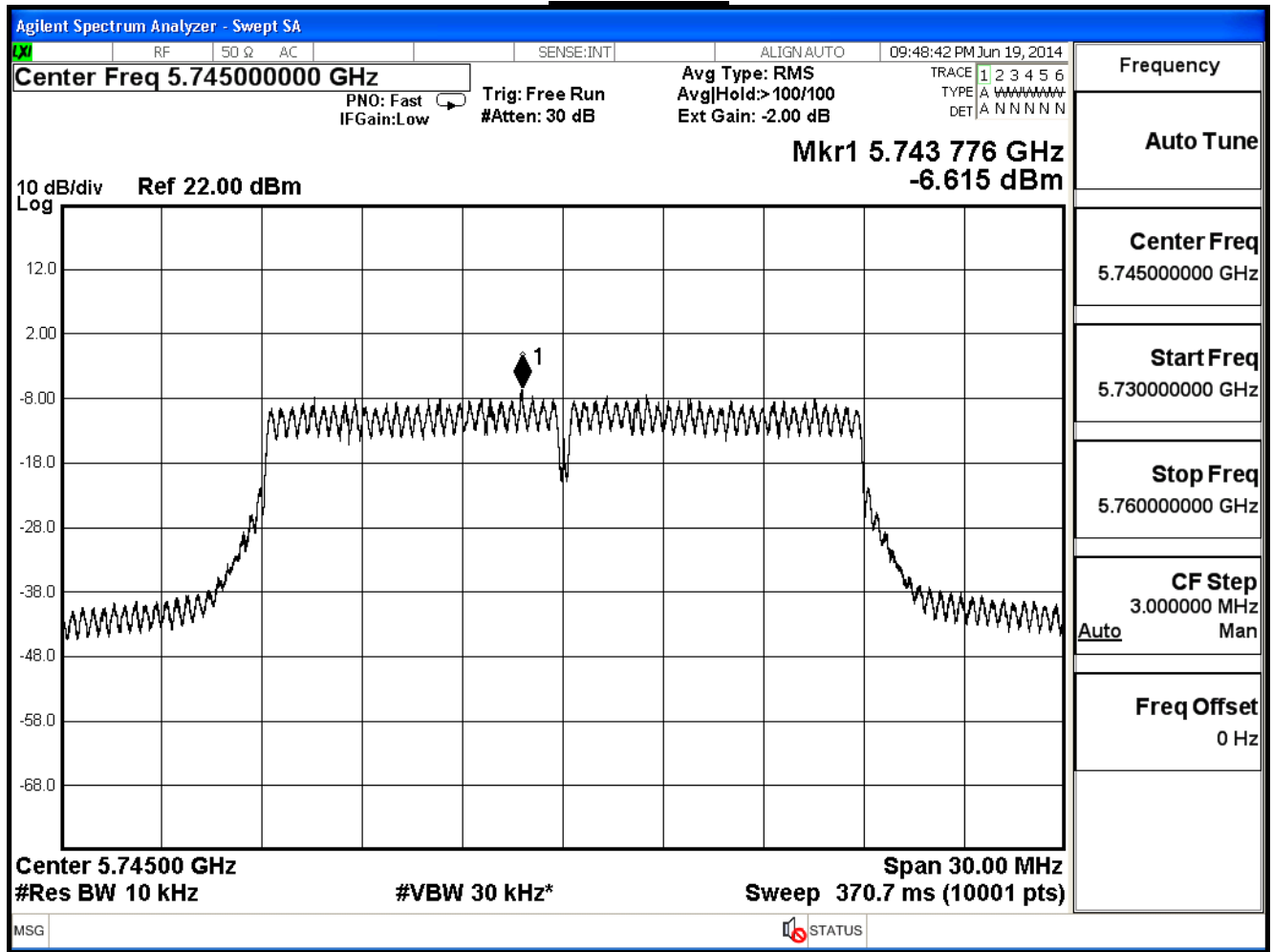
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-6.615	≤ 5.19	Pass
157	5785	-6.879	≤ 5.19	Pass
165	5825	-7.172	≤ 5.19	Pass

Note:

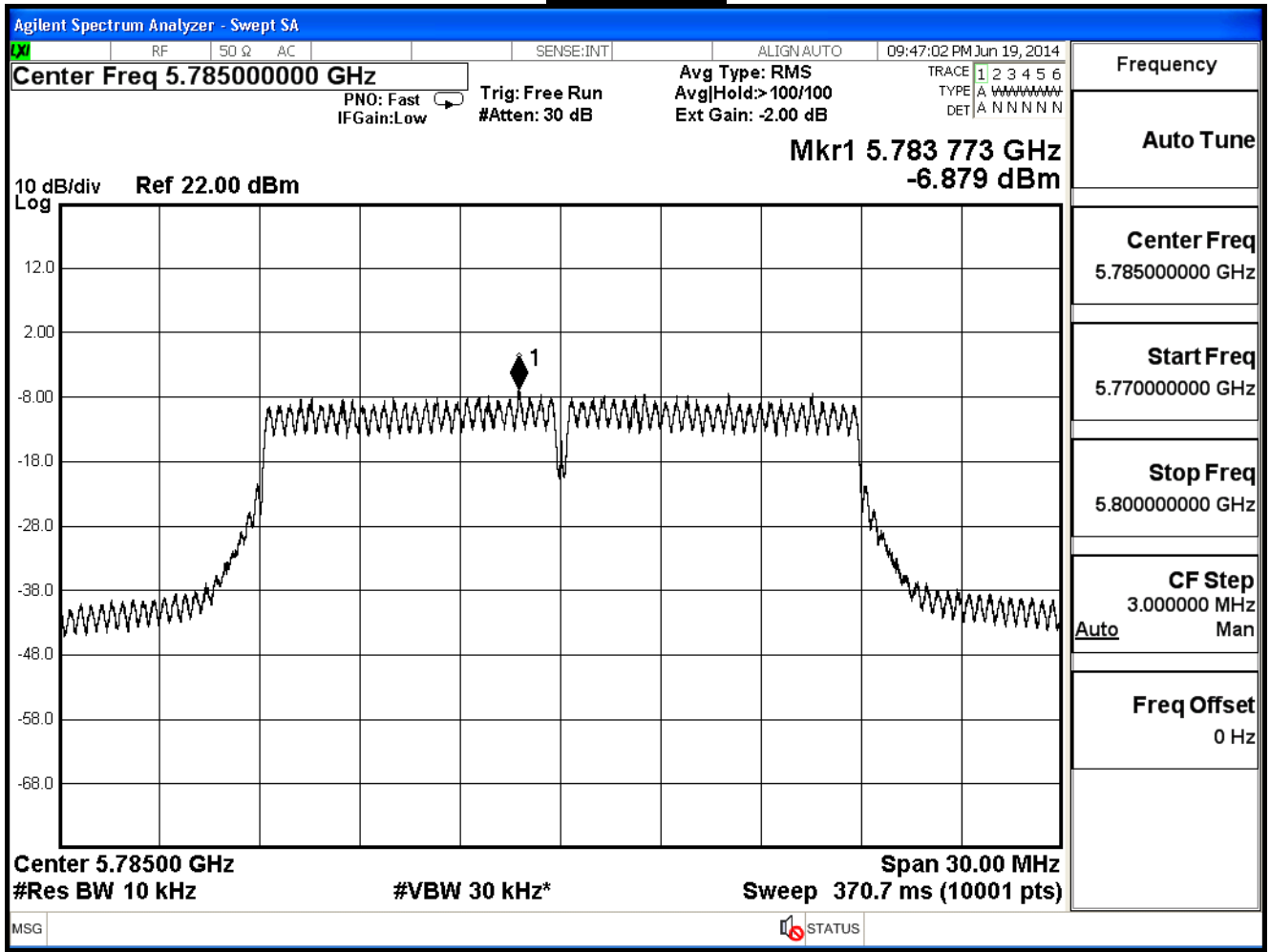
Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

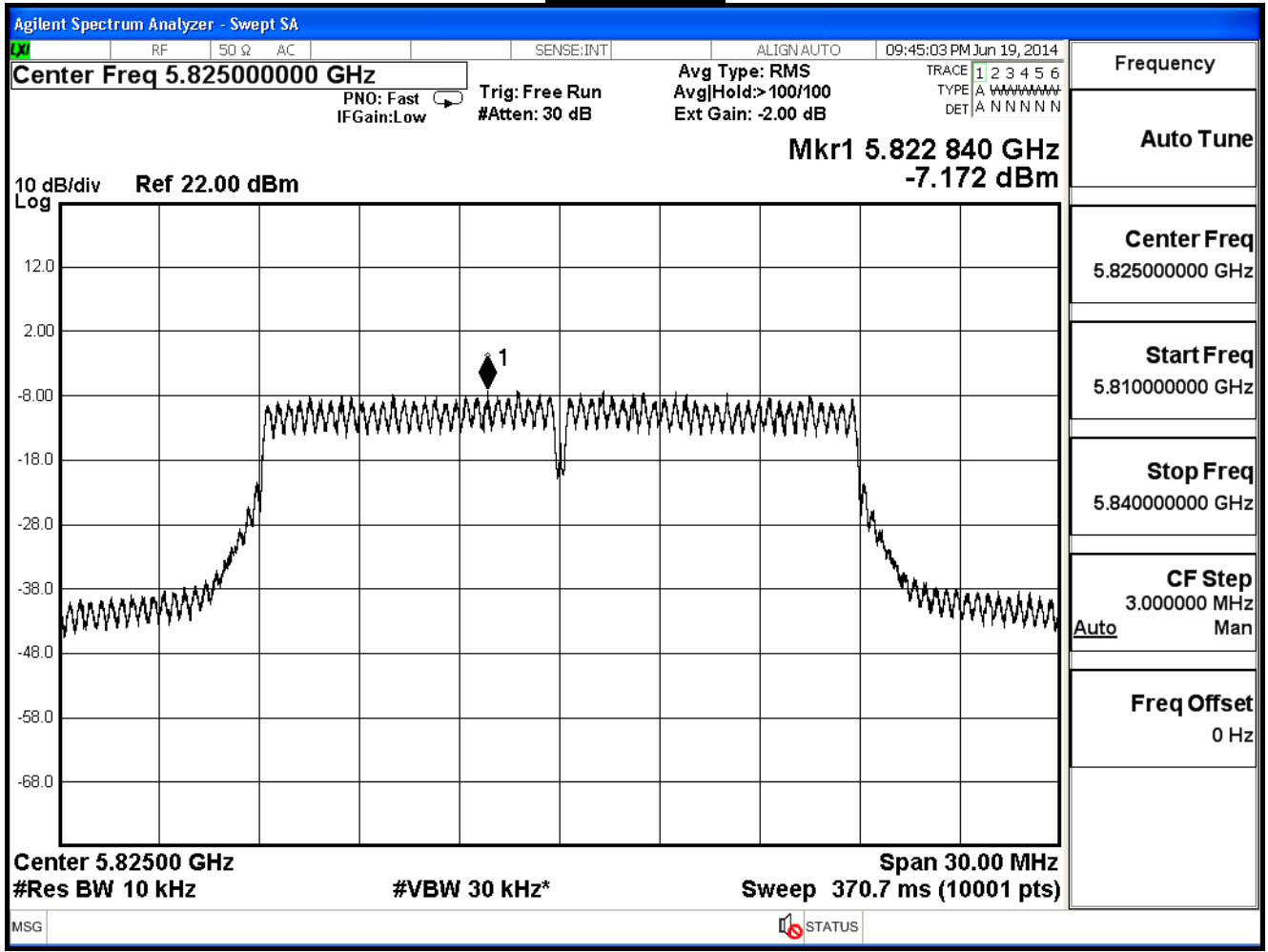
Channel 149



Channel 157



Channel 165



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11n 20MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-2.234	≤ 5.19	Pass
157	5785	-2.395	≤ 5.19	Pass
165	5825	-2.207	≤ 5.19	Pass

Note:

Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

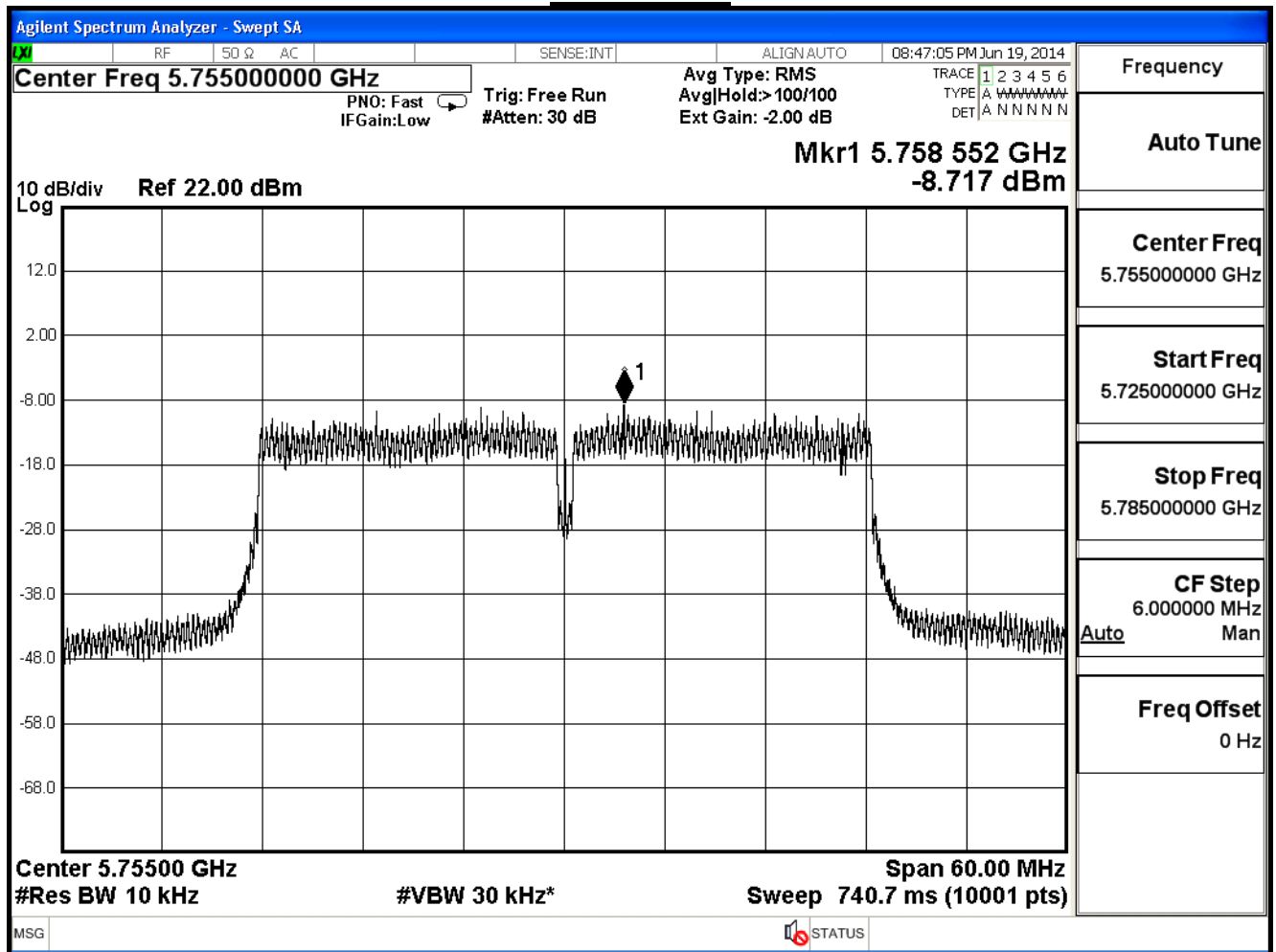
IEEE 802.11n_40MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
151	5755	-8.717	≤ 5.19	Pass
159	5795	-9.075	≤ 5.19	Pass

Note:

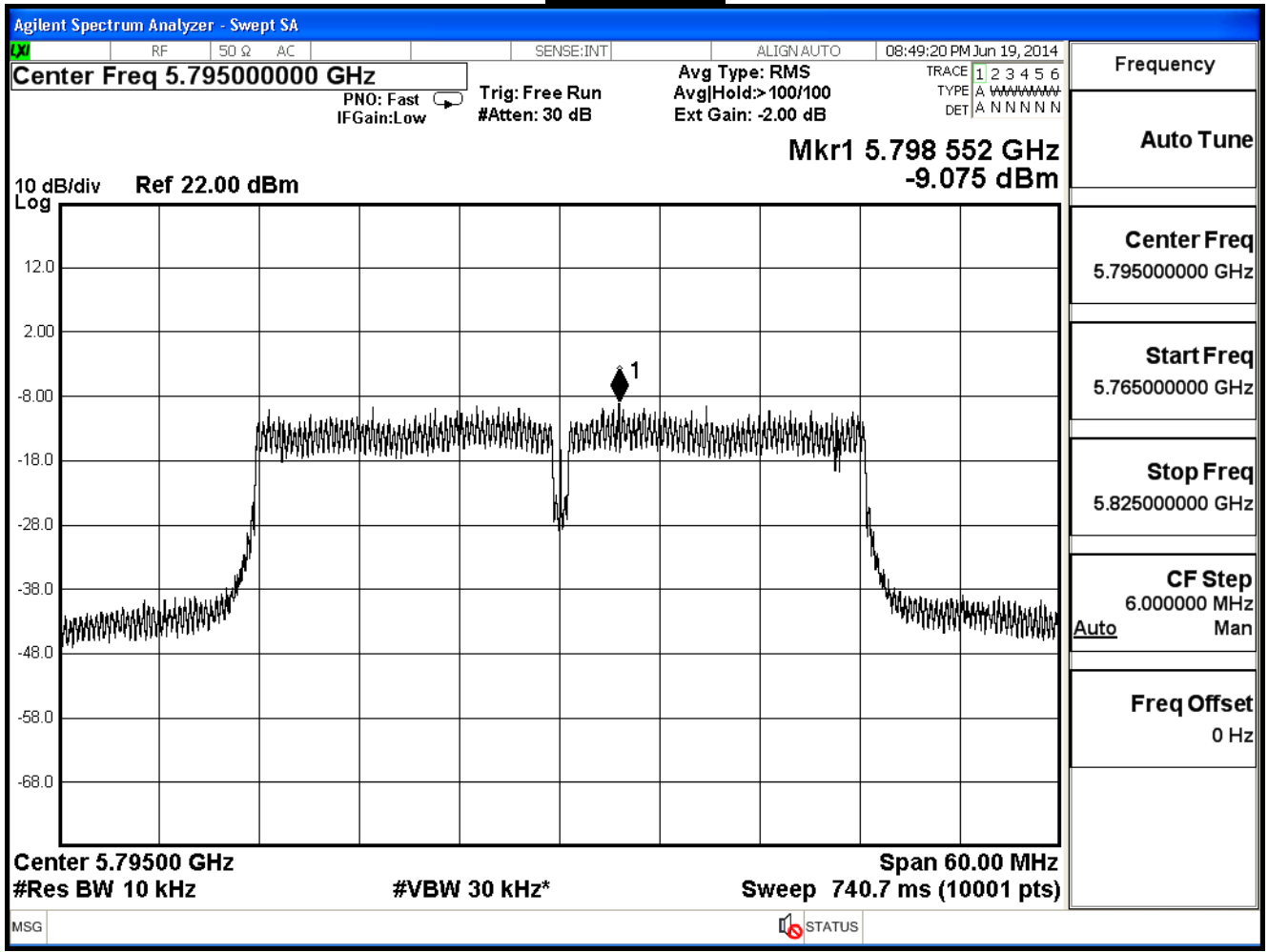
Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

Channel 151



Channel 159



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

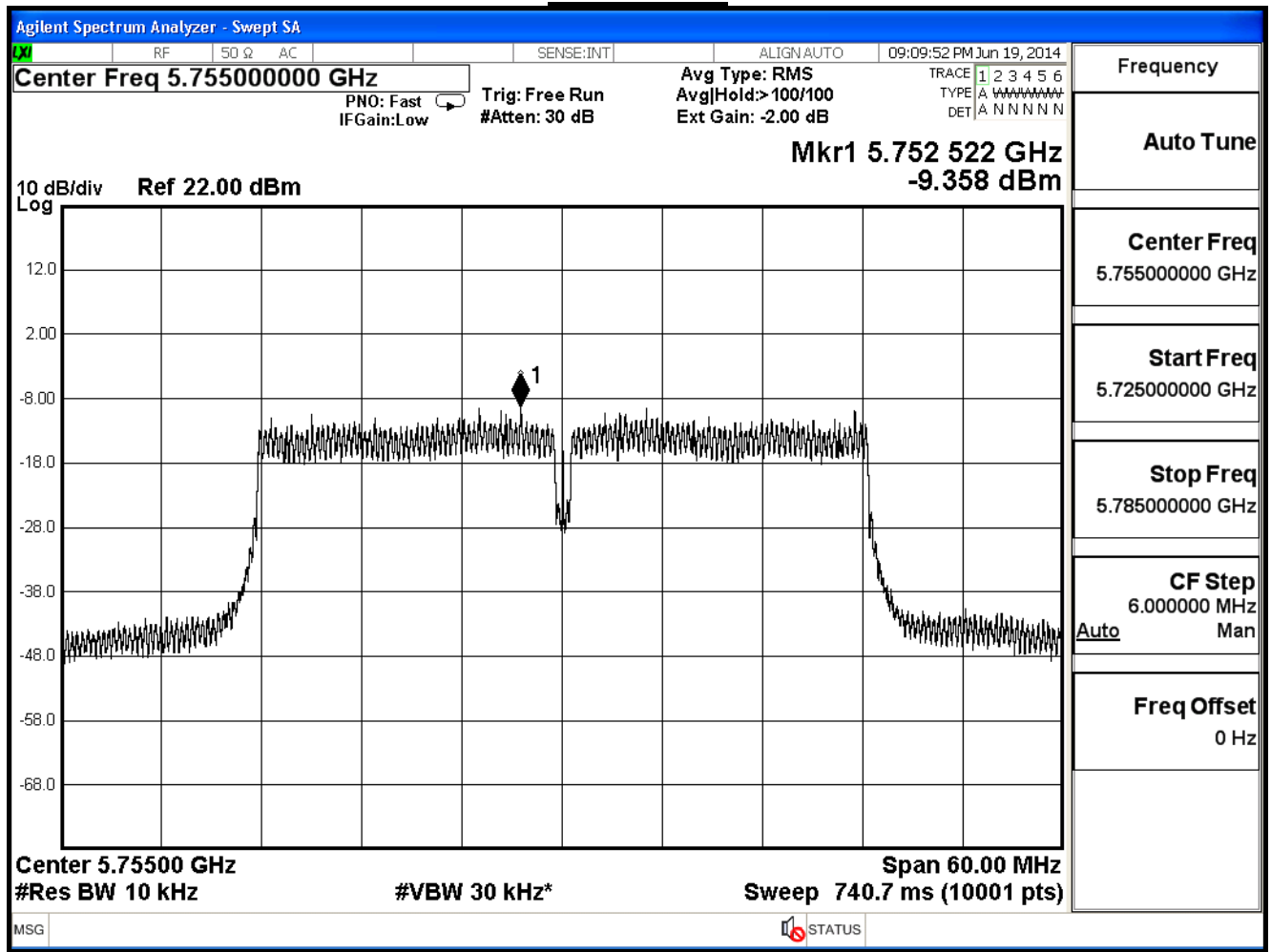
IEEE 802.11n_40MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-9.358	≤ 5.19	Pass
159	5795	-8.651	≤ 5.19	Pass

Note:

Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

Channel 151



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

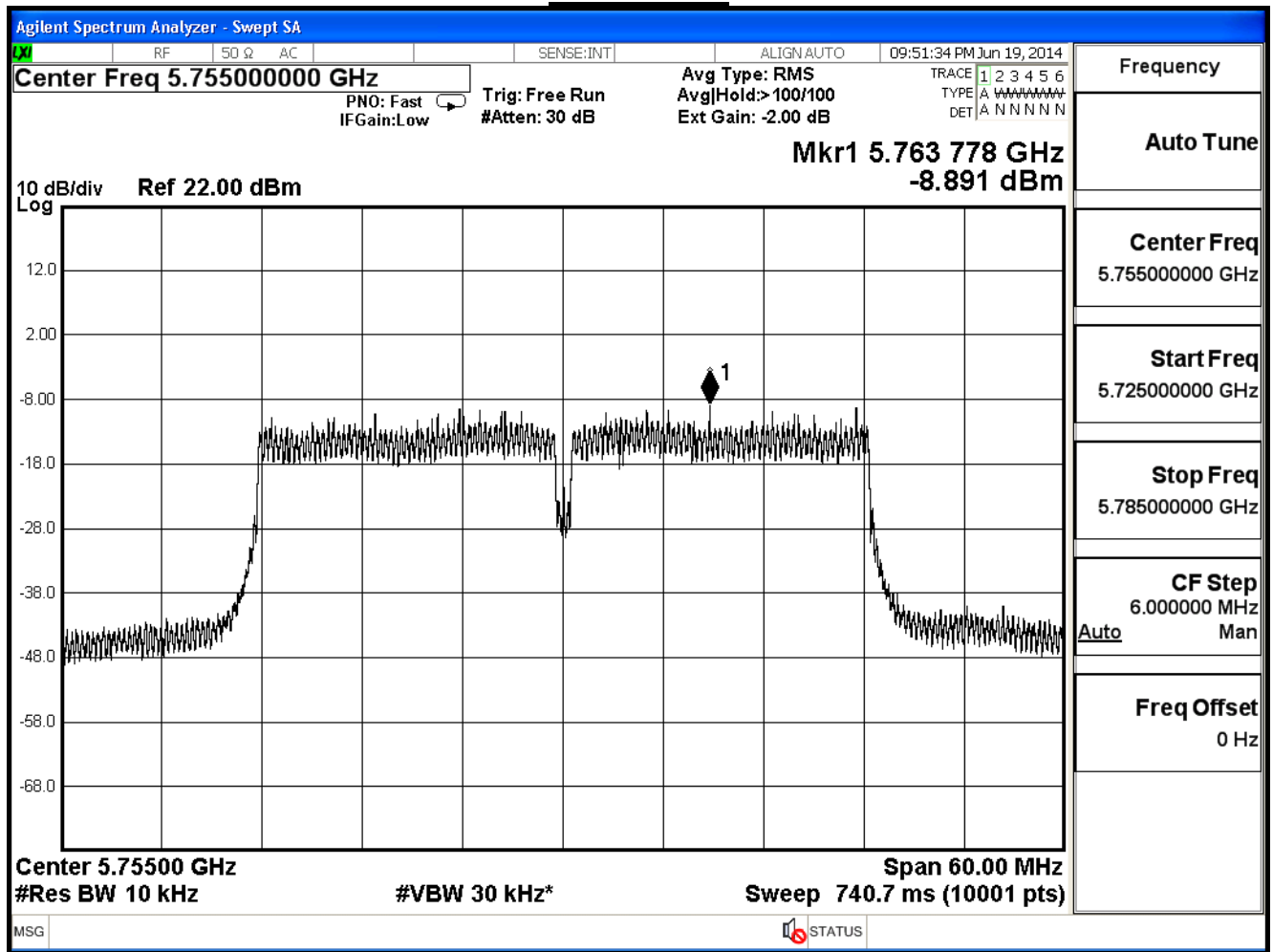
IEEE 802.11n_40MHz (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-8.891	≤ 5.19	Pass
159	5795	-8.892	≤ 5.19	Pass

Note:

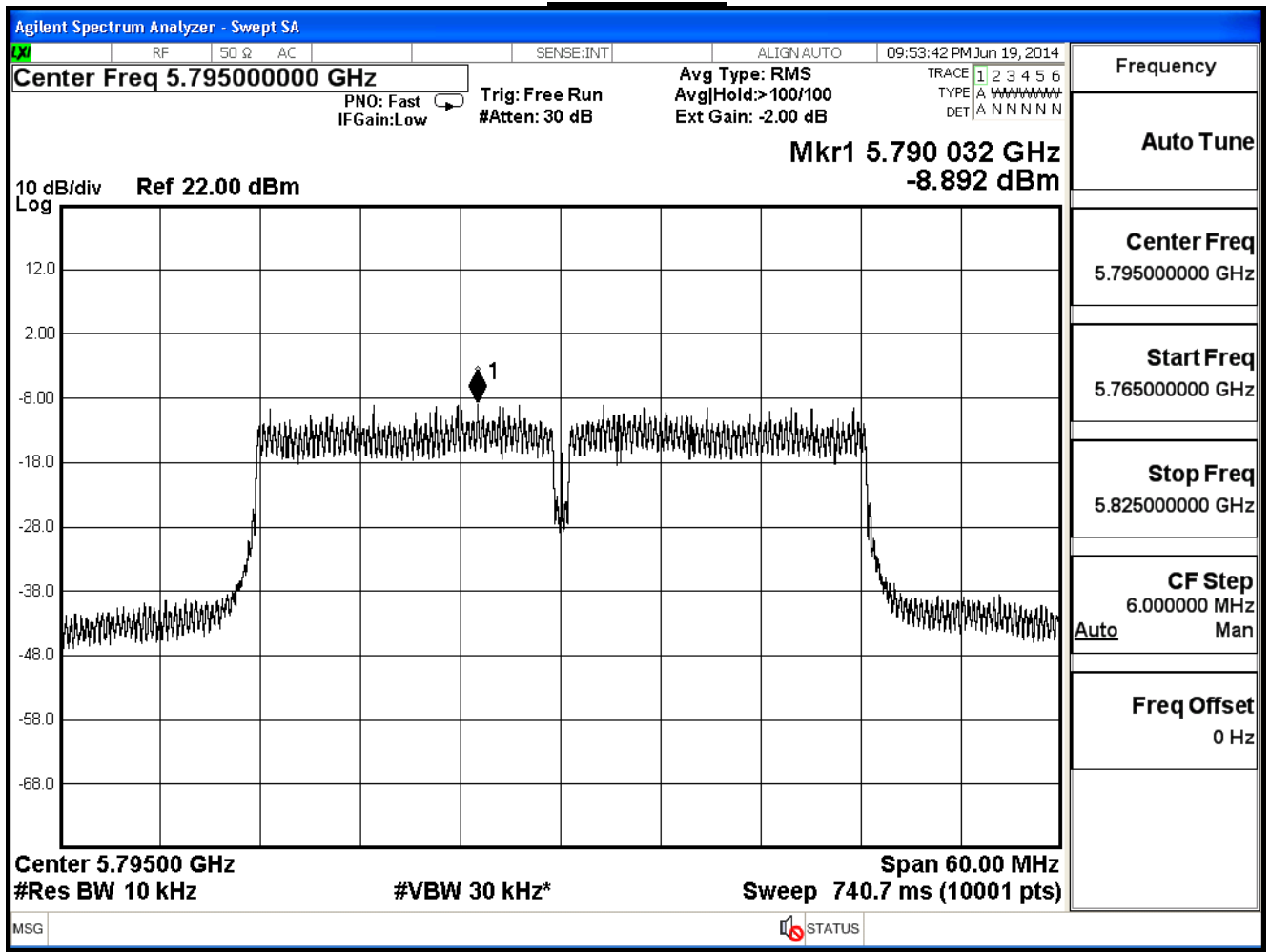
Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

Channel 151



Channel 159



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-4.209	≤ 5.19	Pass
159	5795	-4.098	≤ 5.19	Pass

Note:

Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

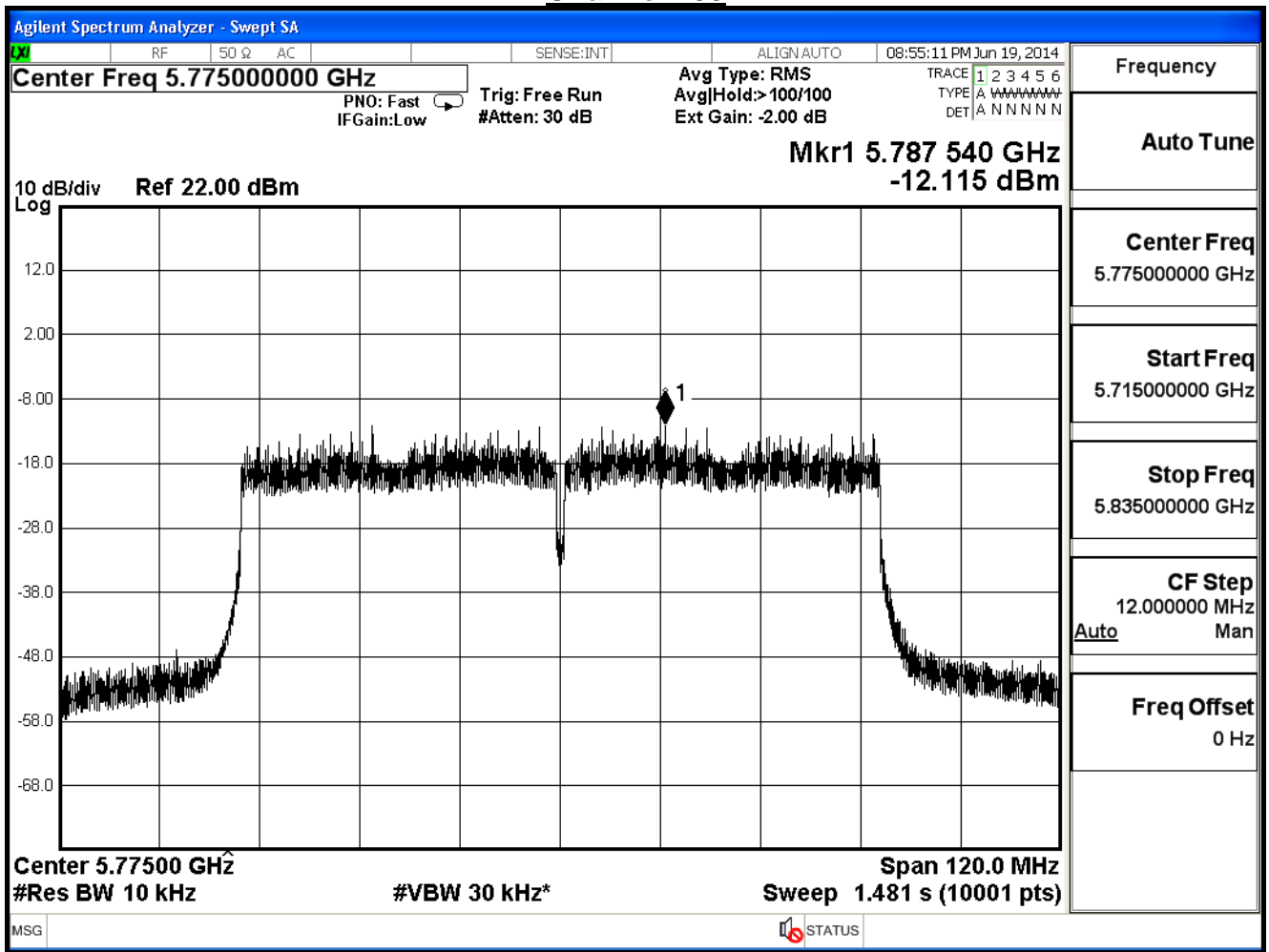
IEEE 802.11ac_80MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-12.115	≤5.19	Pass

Note:

Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

Channel 155



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode)_Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

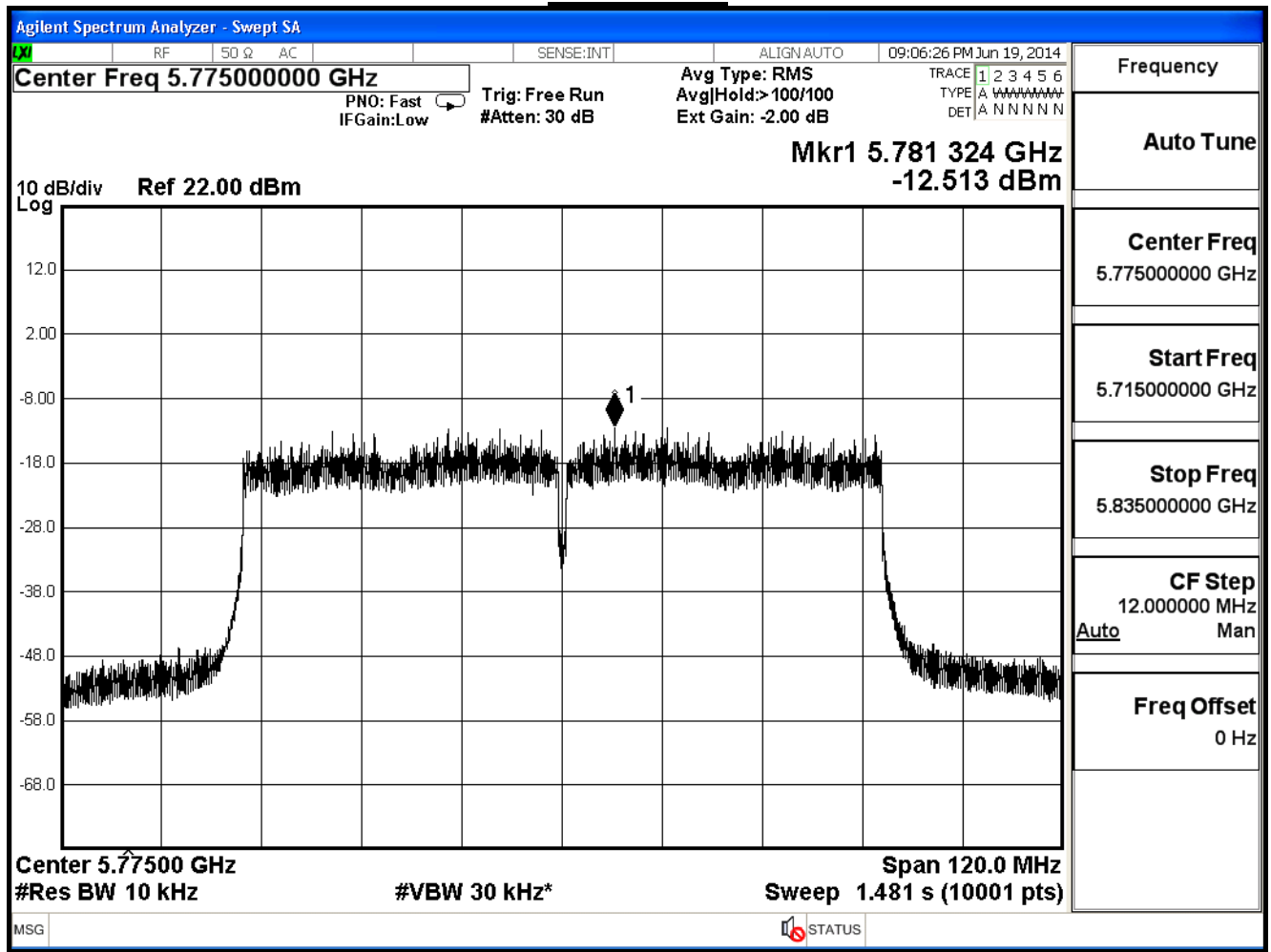
IEEE 802.11ac_80MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-12.513	≤ 5.19	Pass

Note:

Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

Channel 155



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

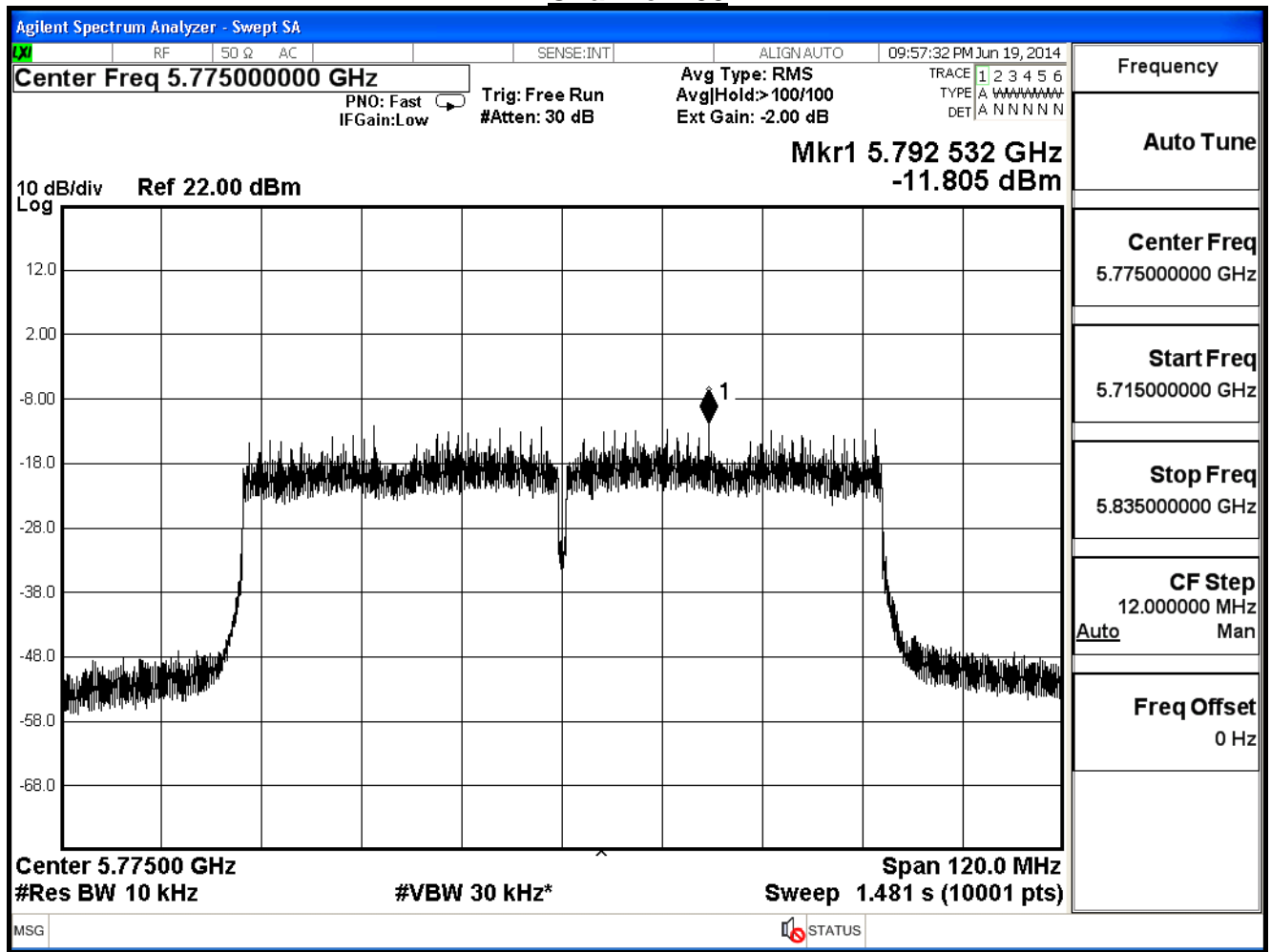
IEEE 802.11ac_80MHz (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-11.805	≤5.19	Pass

Note:

Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm

Channel 155



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 2: Transmit (Beamforming Mode) Adapter: EXA1206UH		
Date of Test	2014/06/19	Test Site	SR7

IEEE802.11ac_80MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-7.363	≤ 5.19	Pass

Note:

Directional Antenna Gain = Beamforming Gain + Max Gain = 8.81dBi

Required Limit = 8dBm - (8.81Bi - 6dB) = 5.19 dBm