

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

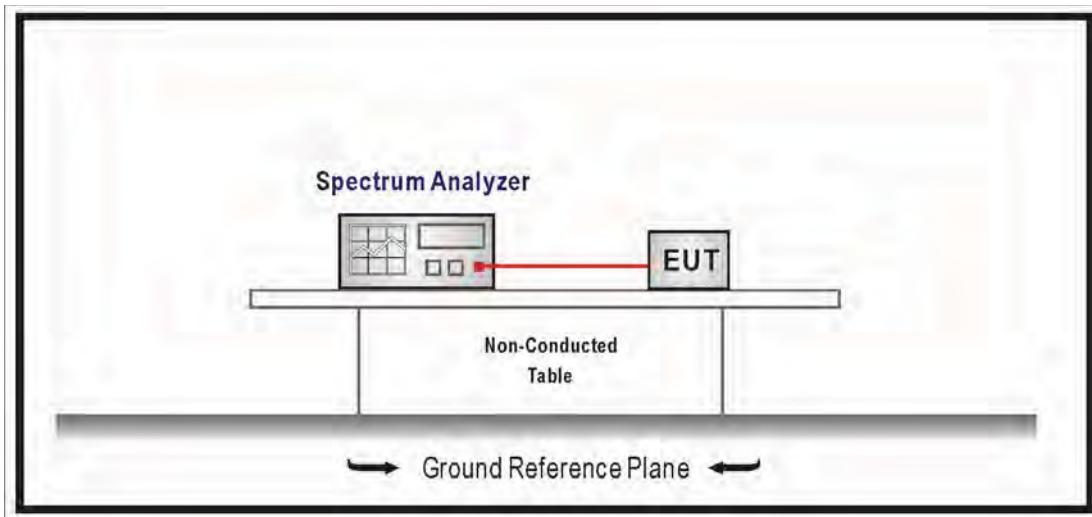
RF antenna conducted test / SR7

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.

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of KDB558074 v03r01 for compliance to FCC 47CFR 15.247 requirements
Set RBW = 100 kHz, Set VBW \geq 3xRBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

5.6. Uncertainty

Conducted is defined as $\pm 1.27\text{dB}$

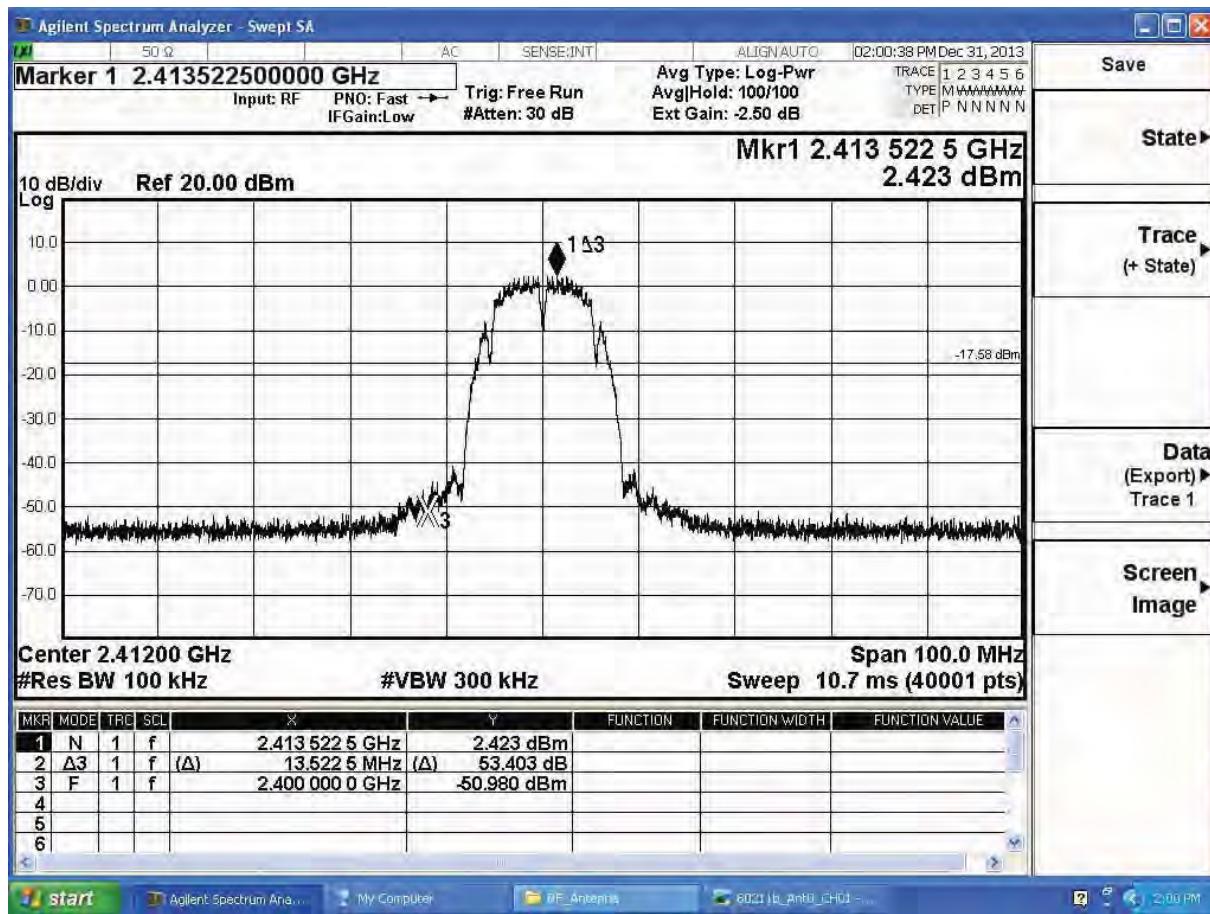
5.7. Test Result

Product	Access Point		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2013/12/05	Test Site	SR7

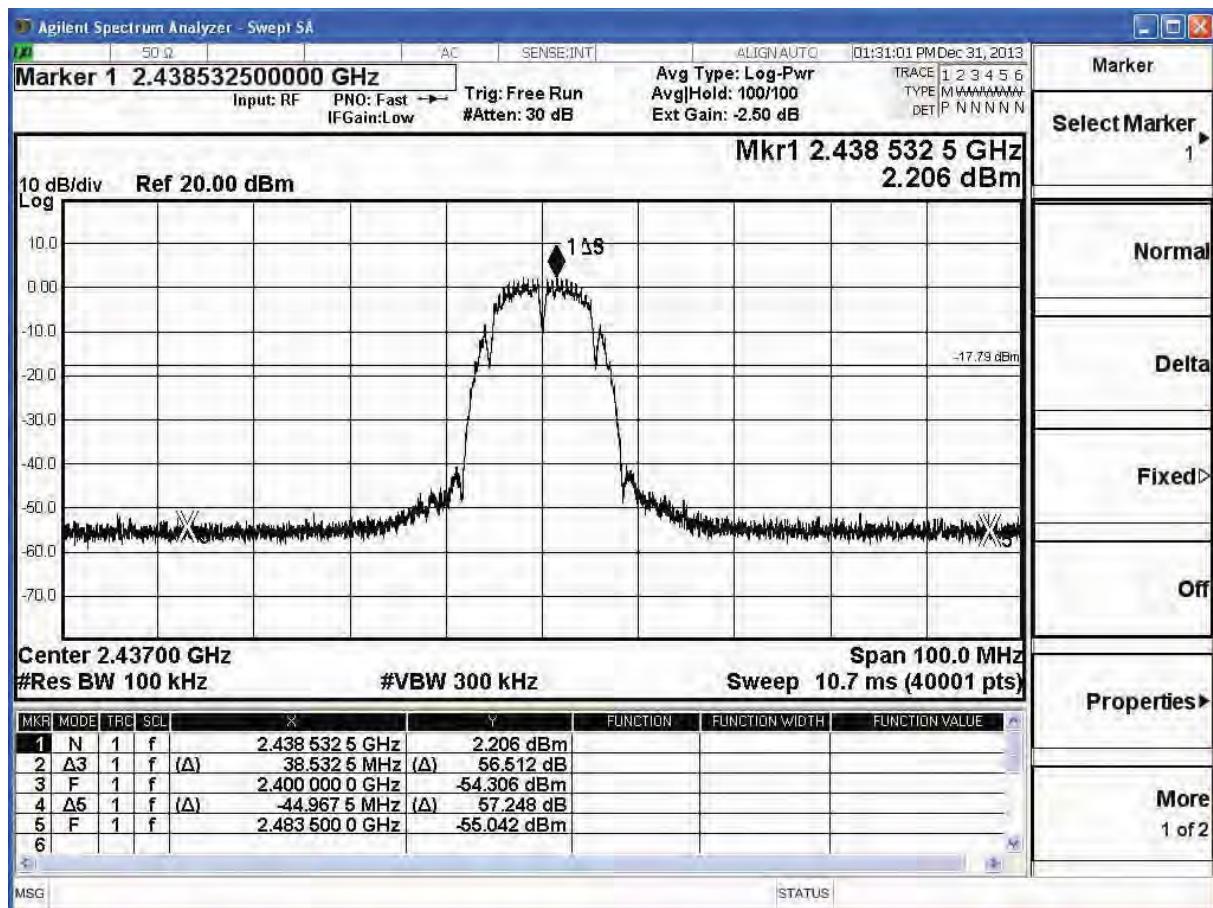
IEEE 802.11b, ANT 0, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	53.403	≥20	Pass
6	2437	56.512	≥20	Pass
11	2462	55.854	≥20	Pass

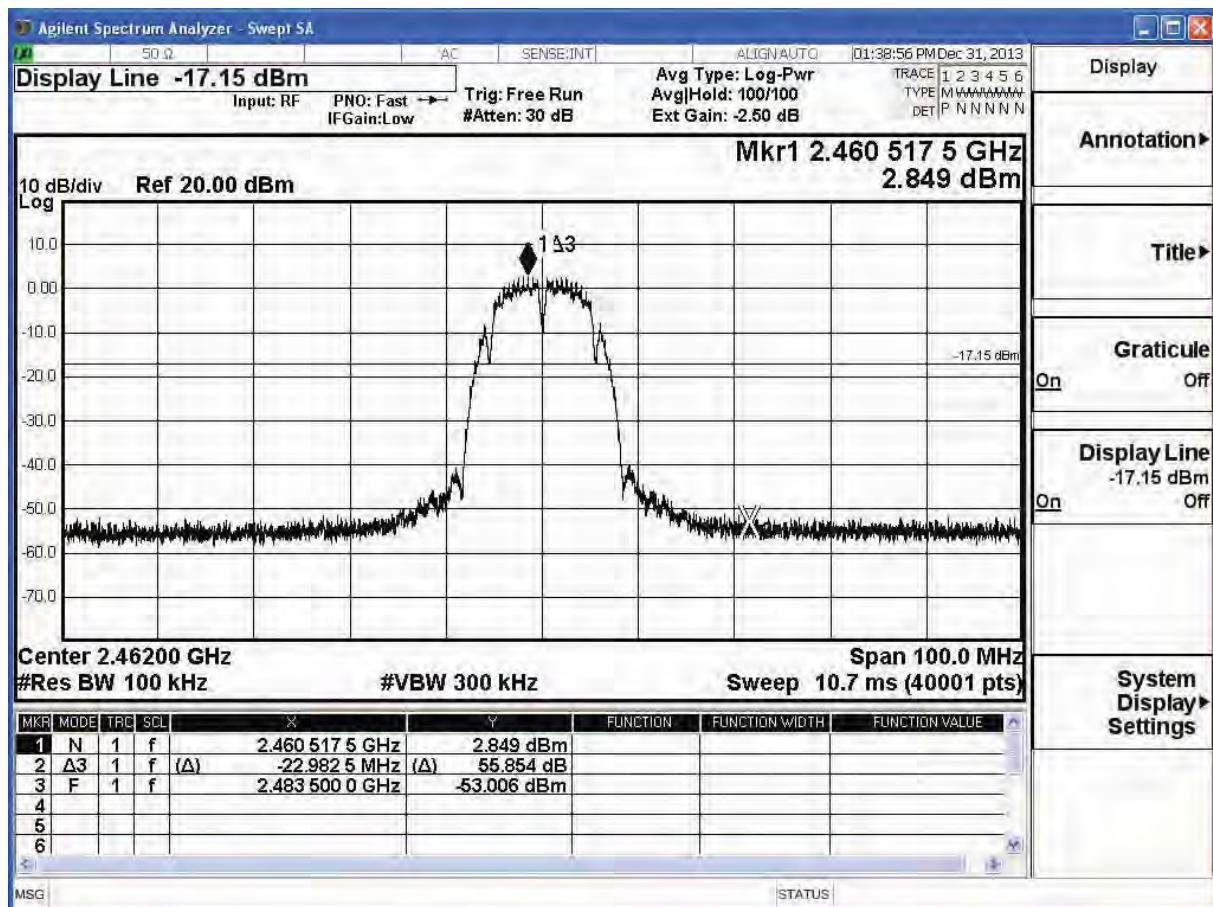
Channel 01 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

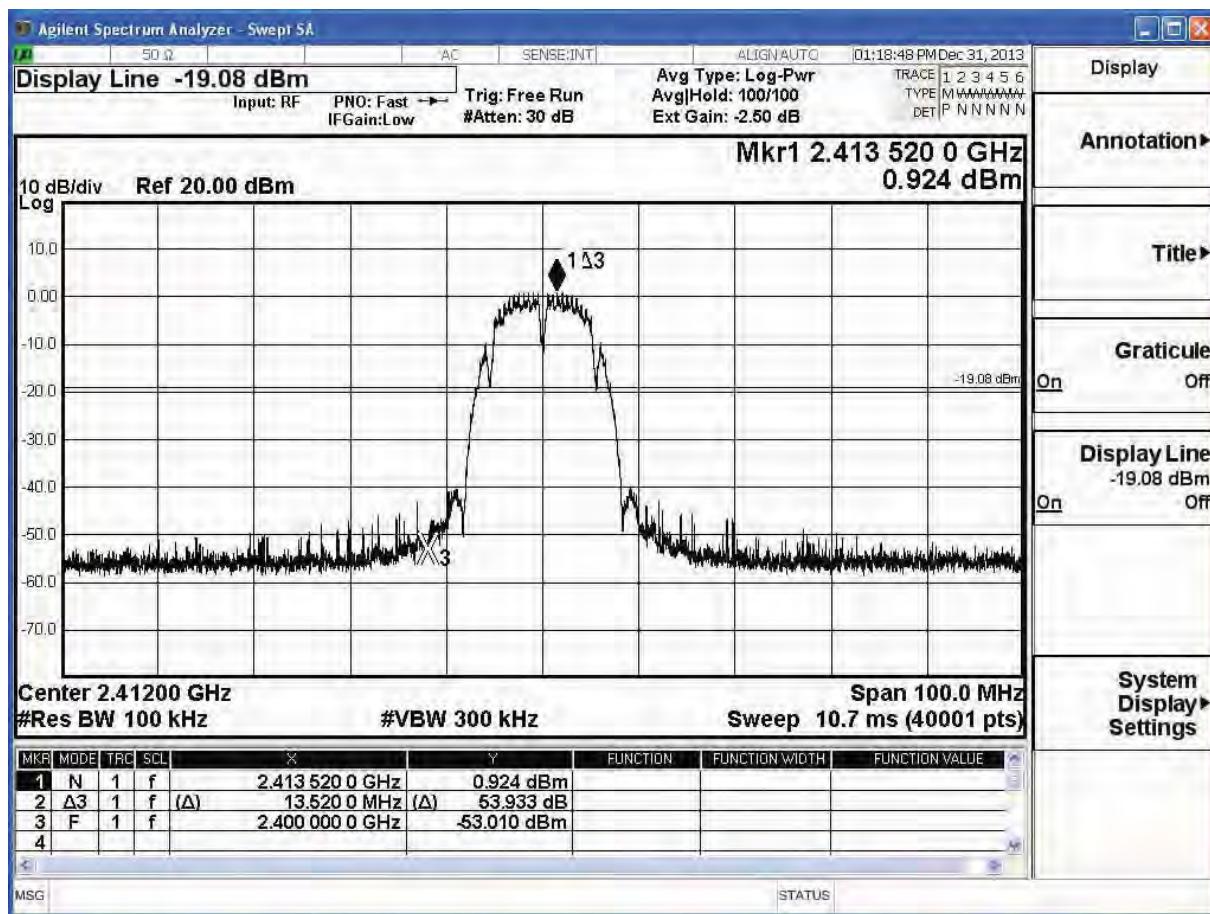


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Test Item	RF antenna conducted test		
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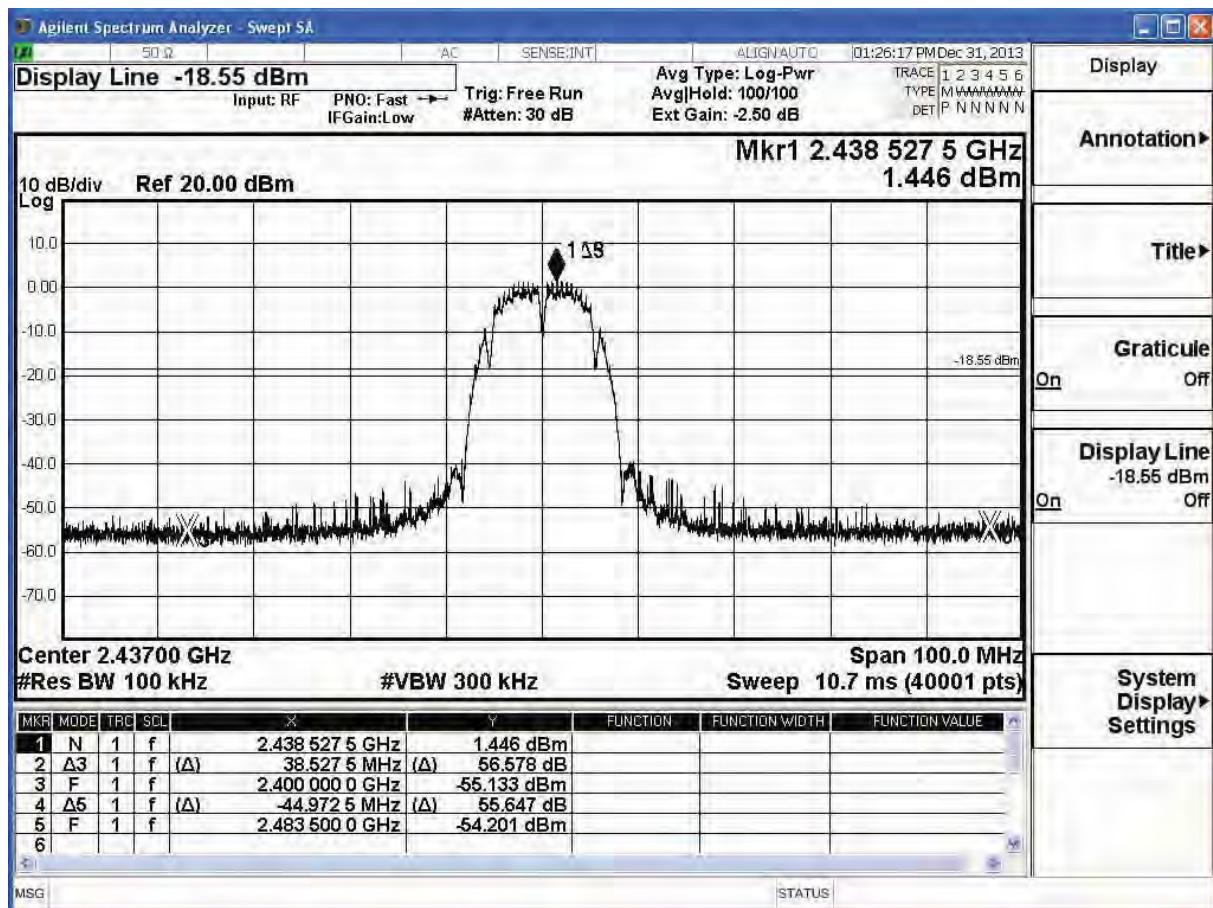
IEEE 802.11b, ANT 1, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	53.933	≥20	Pass
6	2437	55.647	≥20	Pass
11	2462	56.190	≥20	Pass

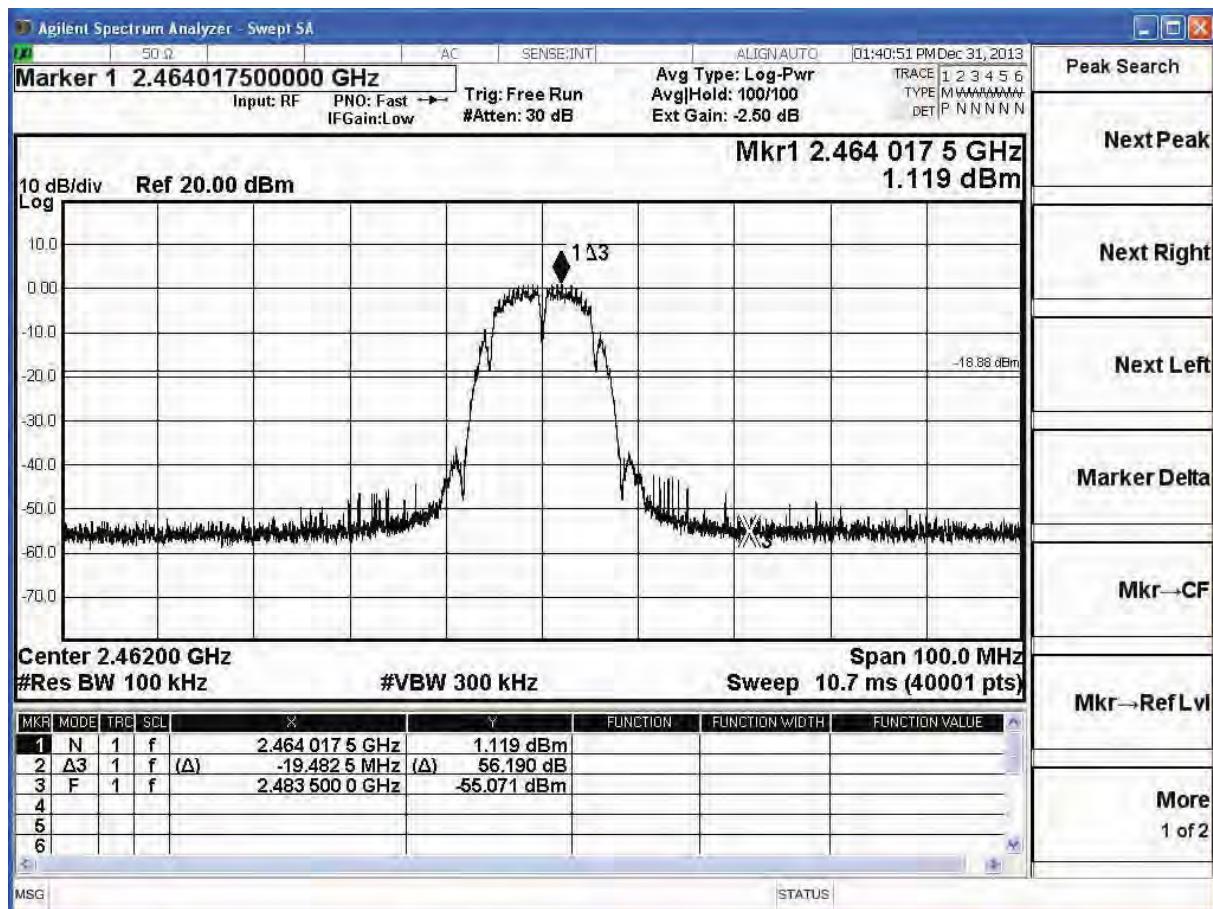
Channel 01 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

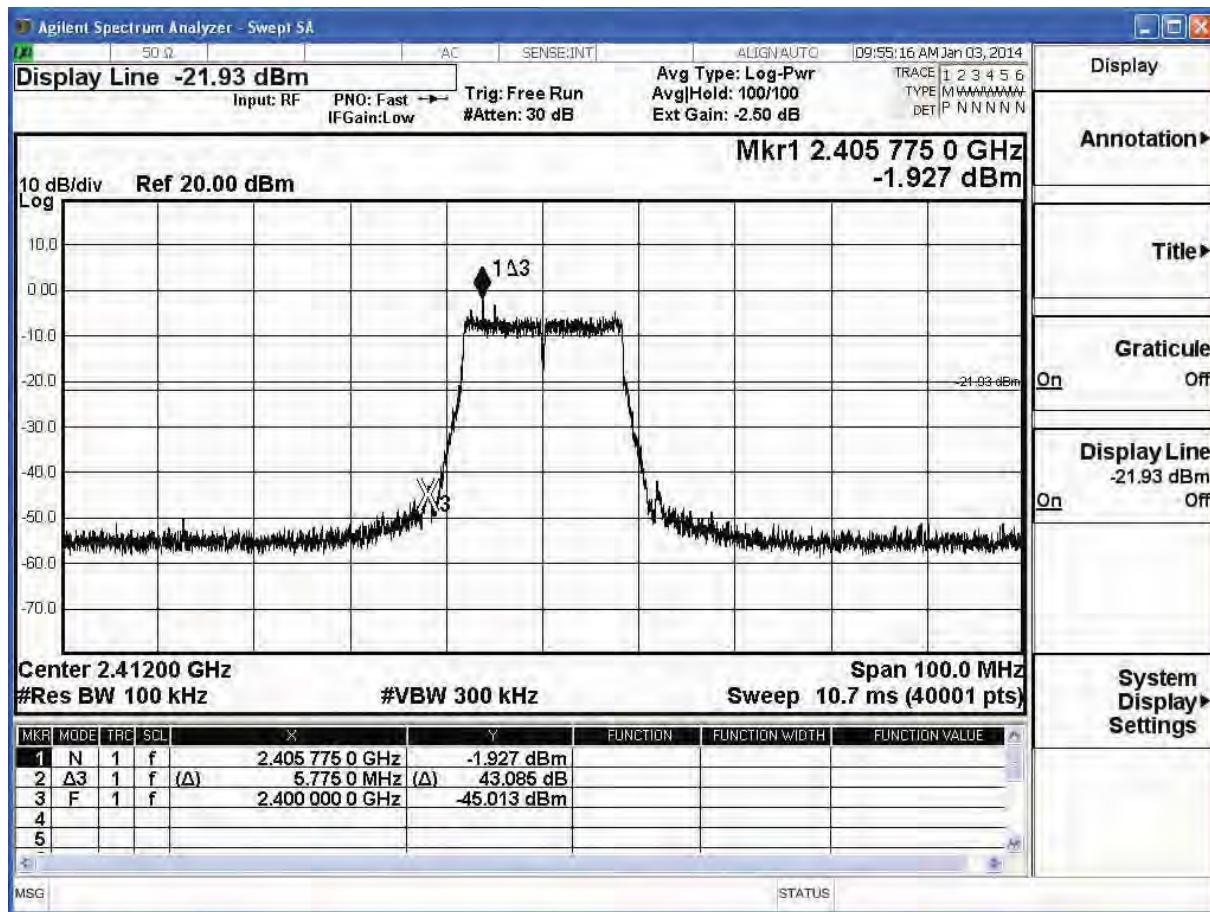


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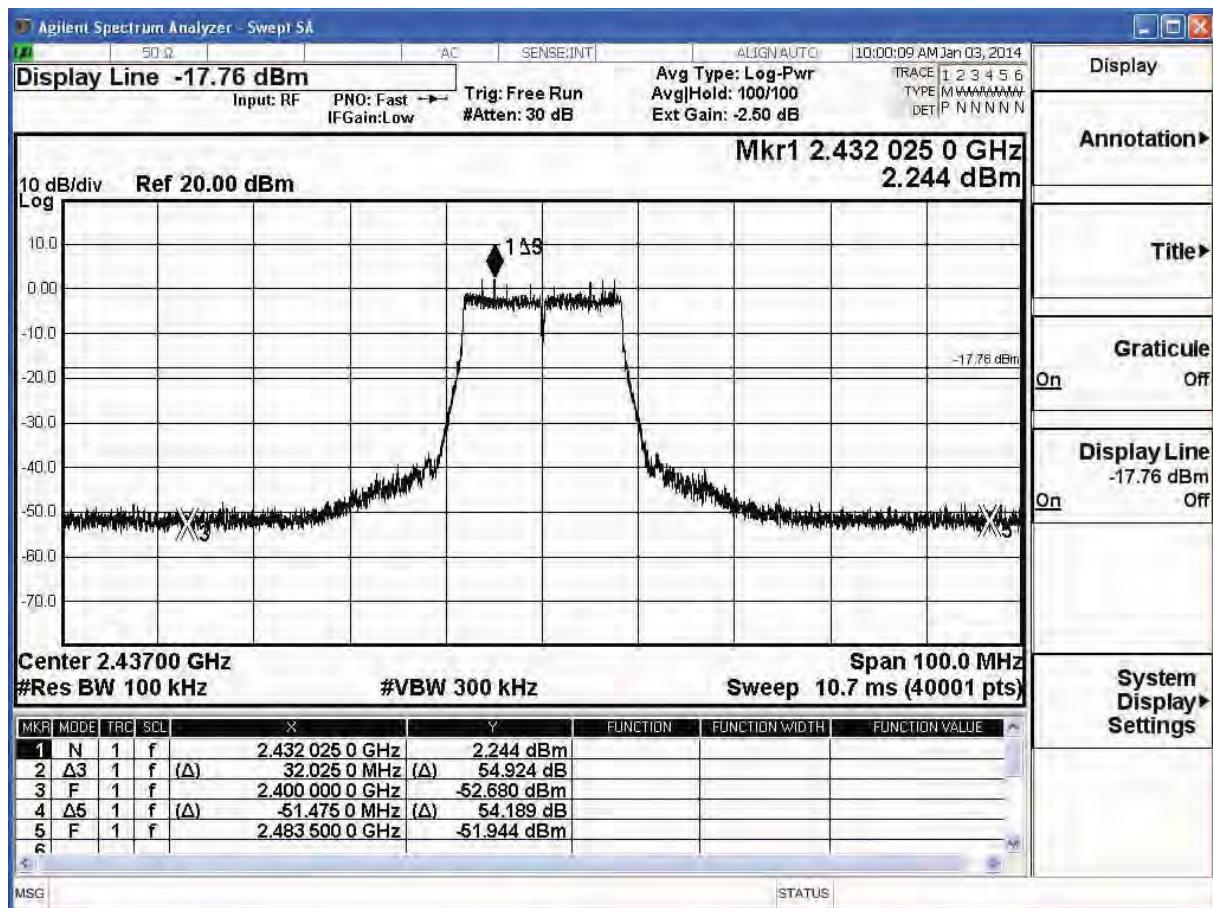
IEEE 802.11g, ANT 0, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	43.085	≥20	Pass
6	2437	54.189	≥20	Pass
11	2462	52.253	≥20	Pass

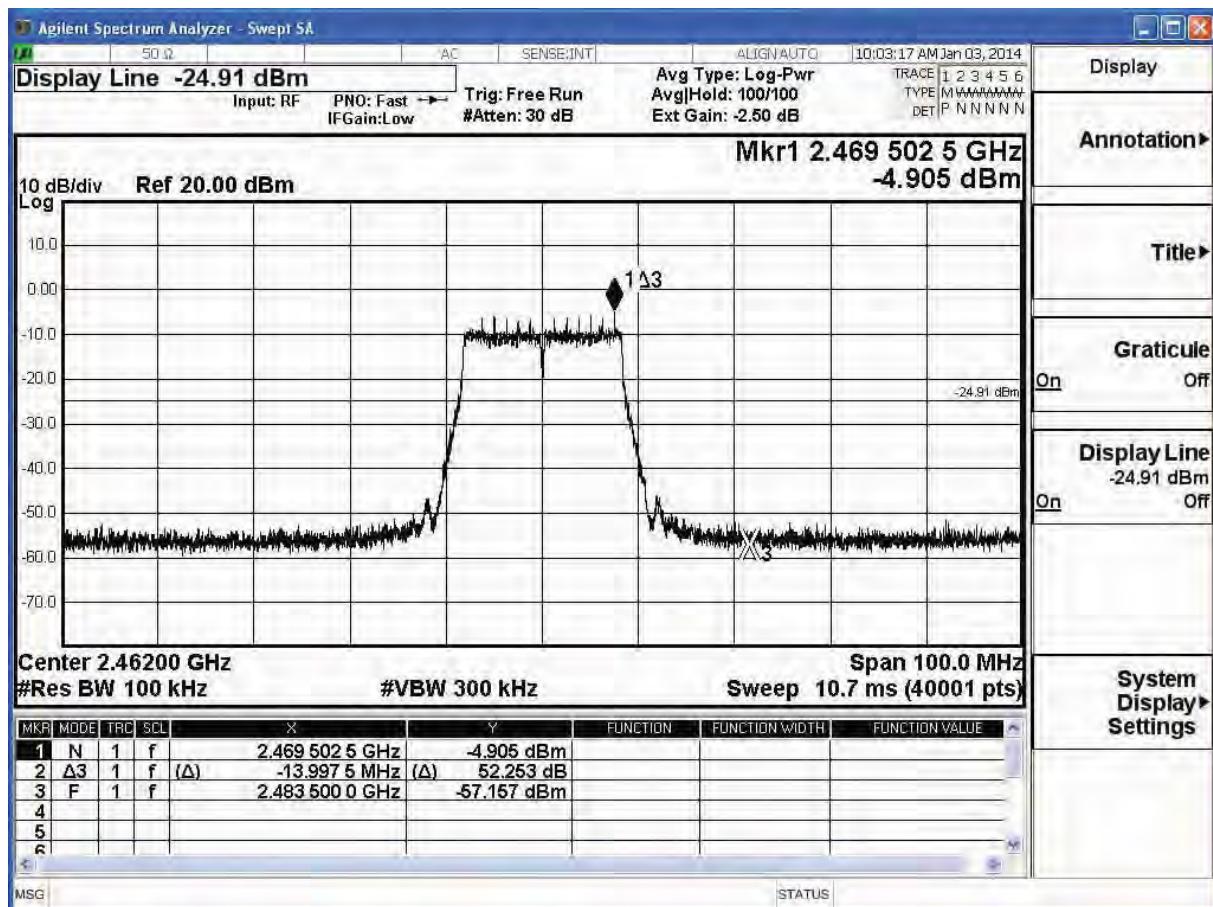
Channel 01 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

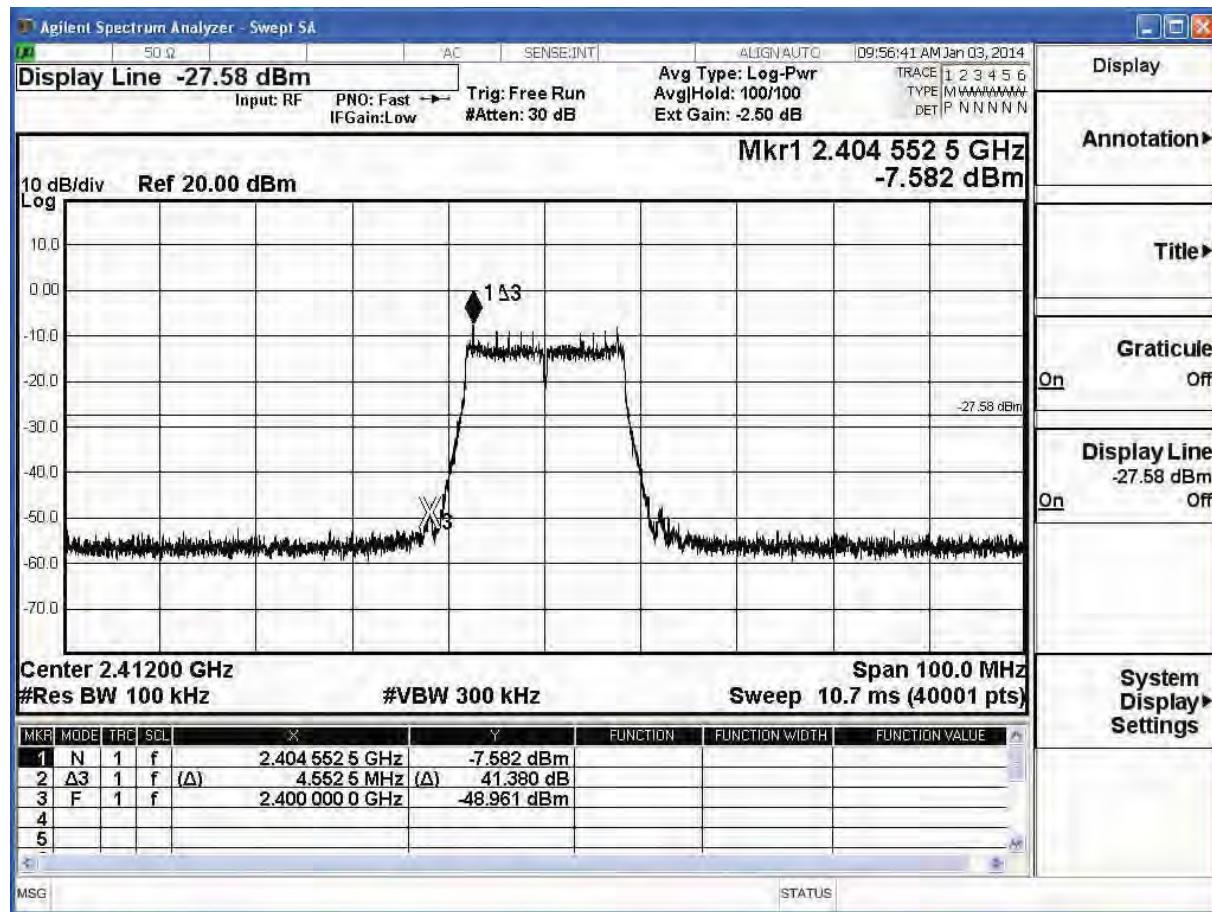


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Test Item	RF antenna conducted test		
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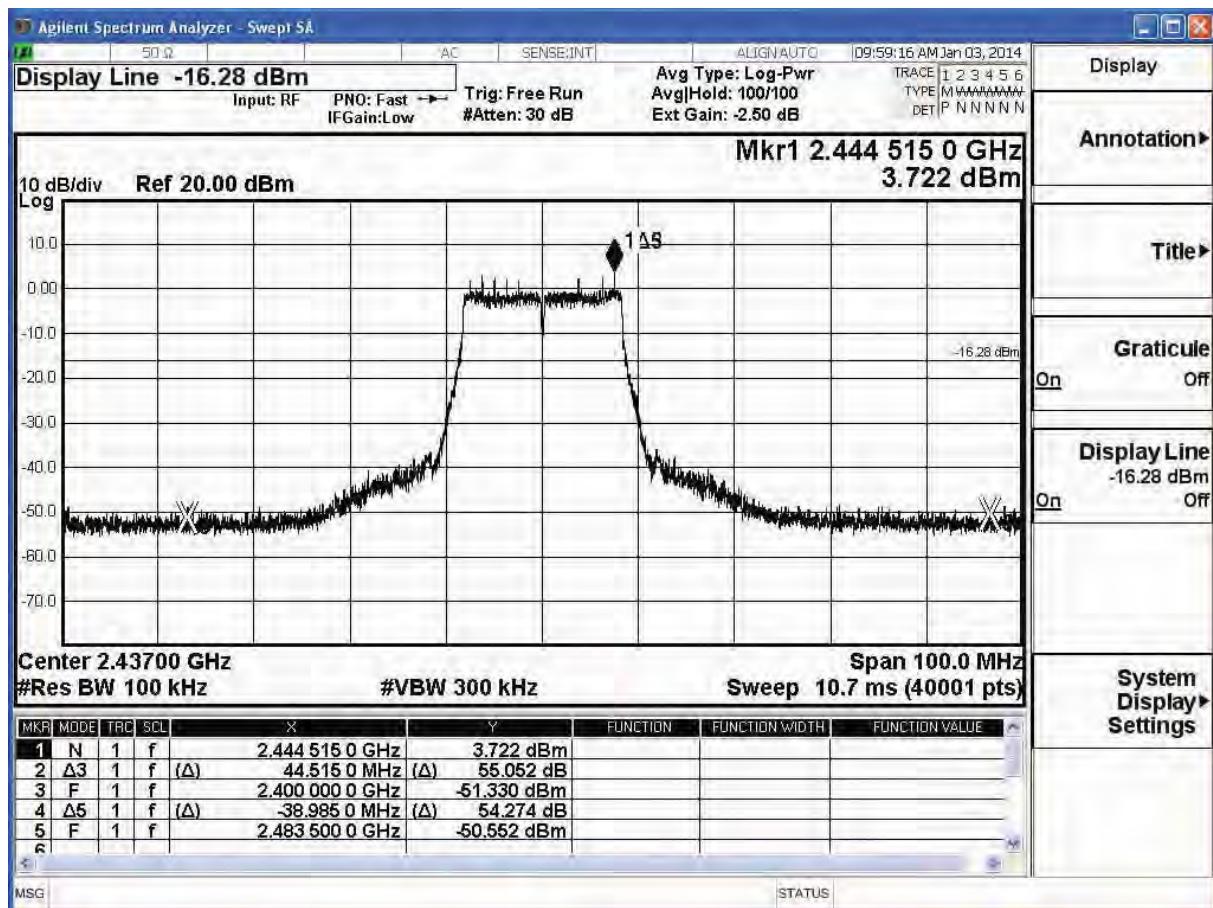
IEEE 802.11g, ANT 1, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.380	≥20	Pass
6	2437	54.274	≥20	Pass
11	2462	45.550	≥20	Pass

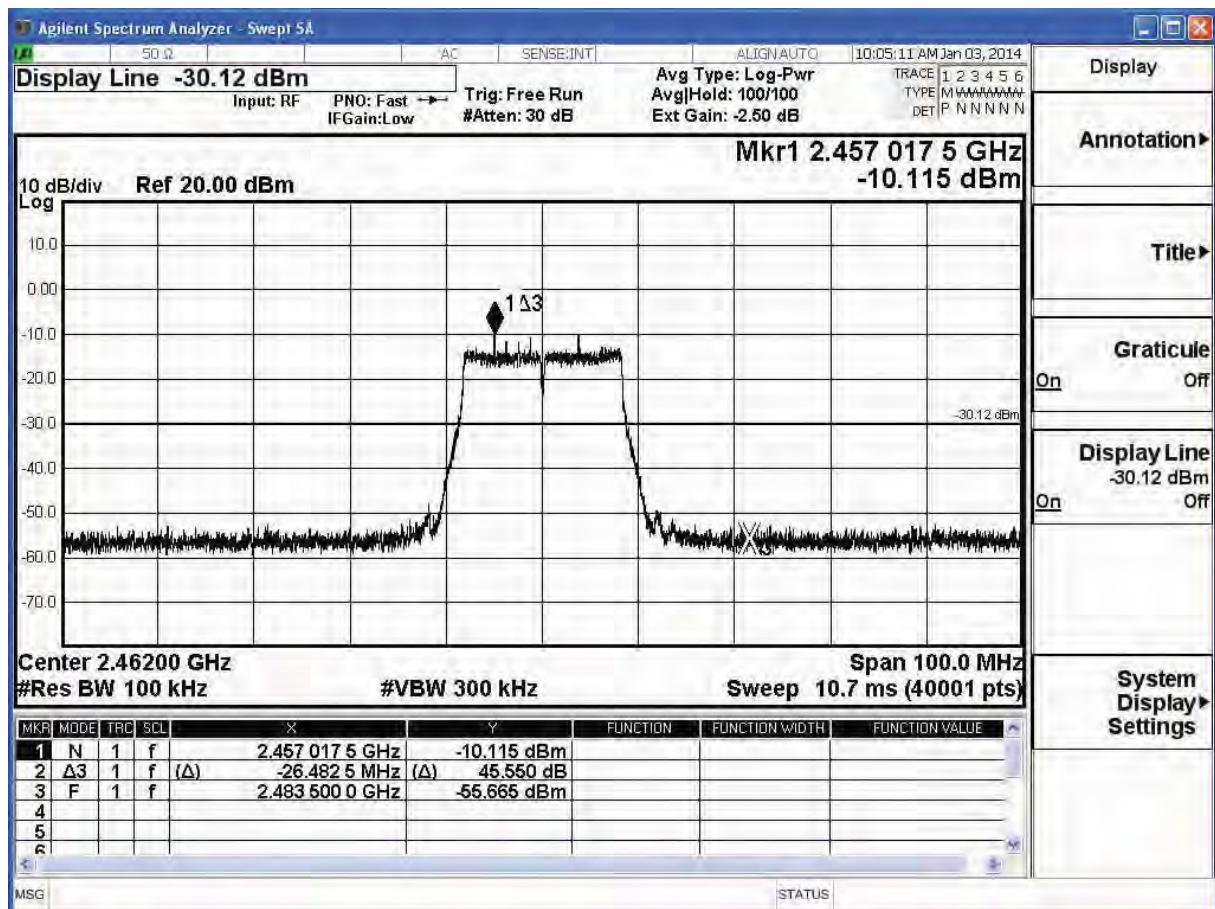
Channel 01 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

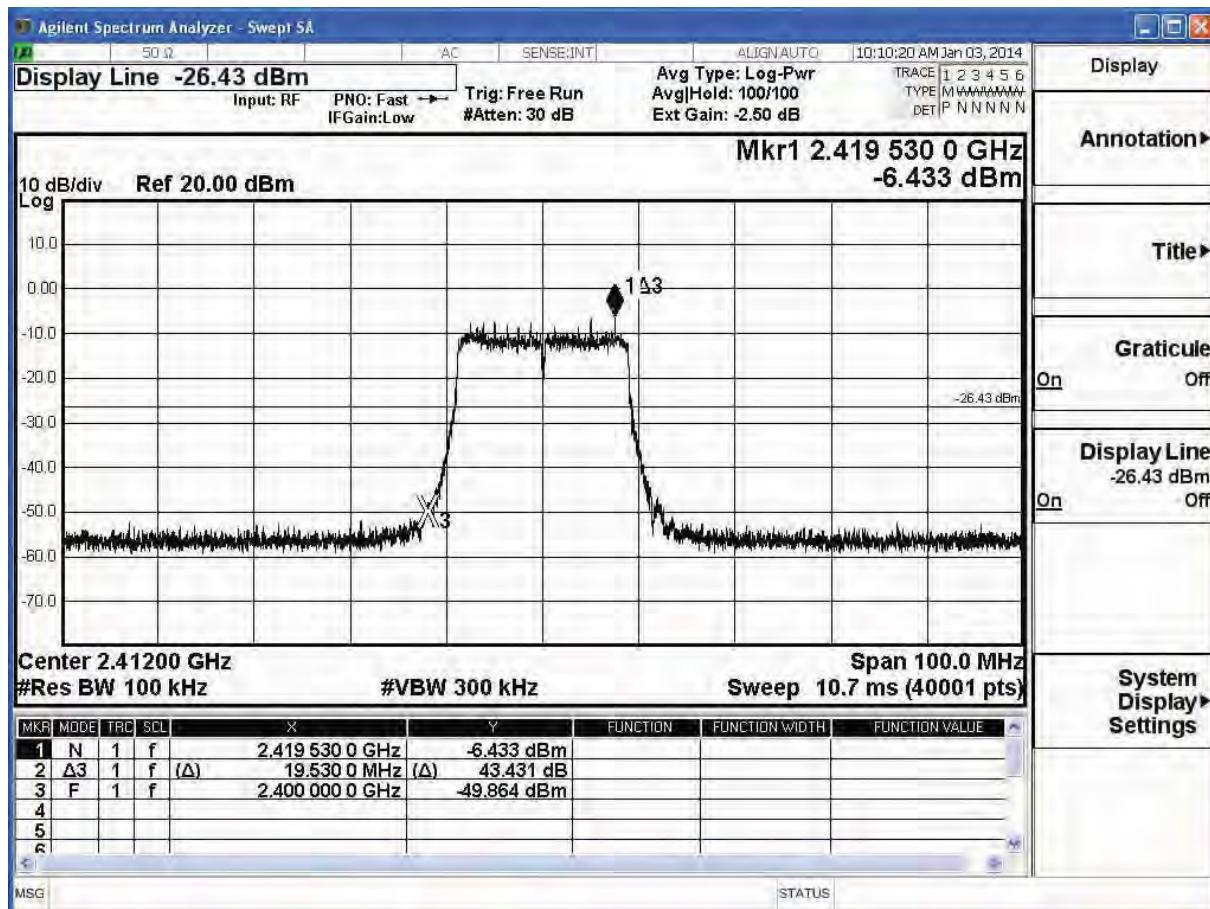


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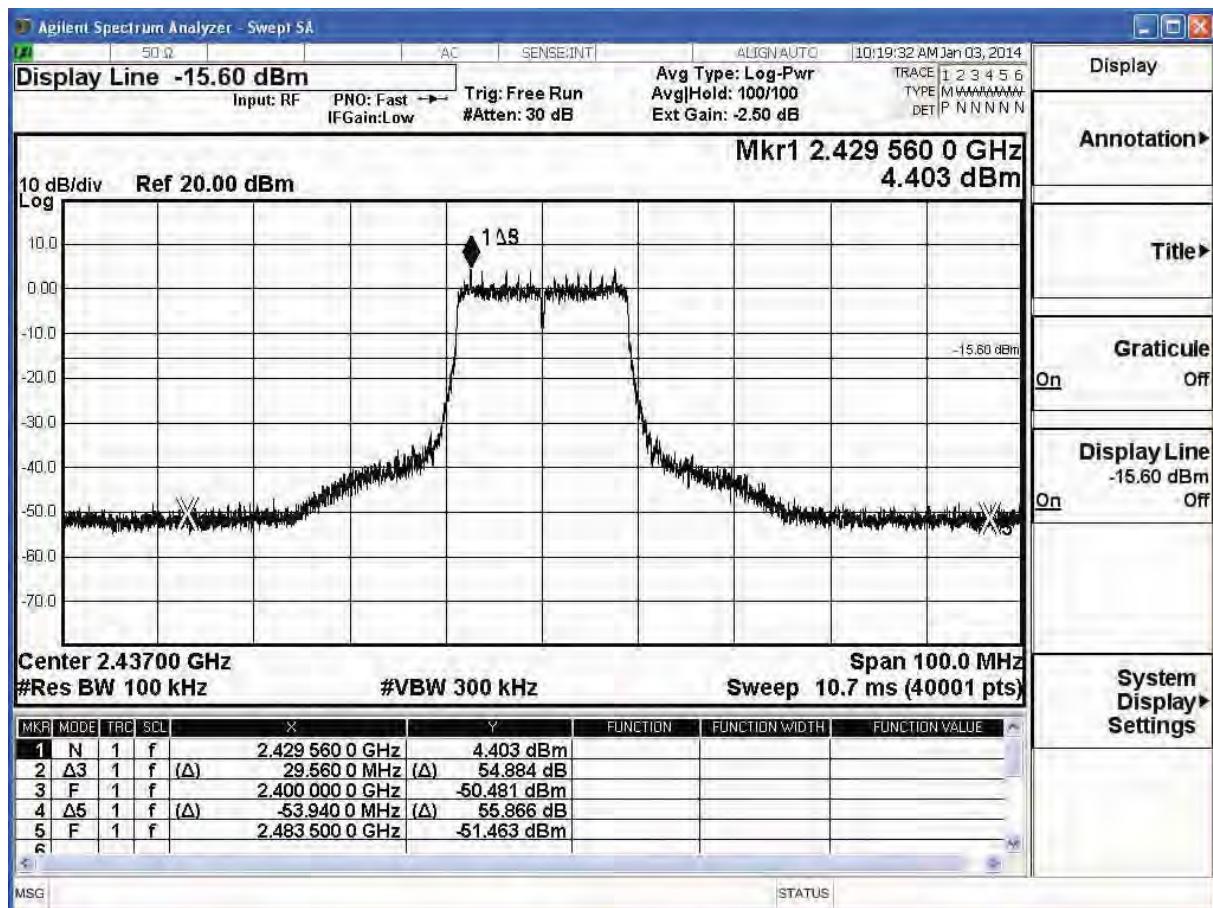
IEEE 802.11n (20MHz), ANT 0, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	43.431	≥20	Pass
6	2437	54.884	≥20	Pass
11	2462	50.079	≥20	Pass

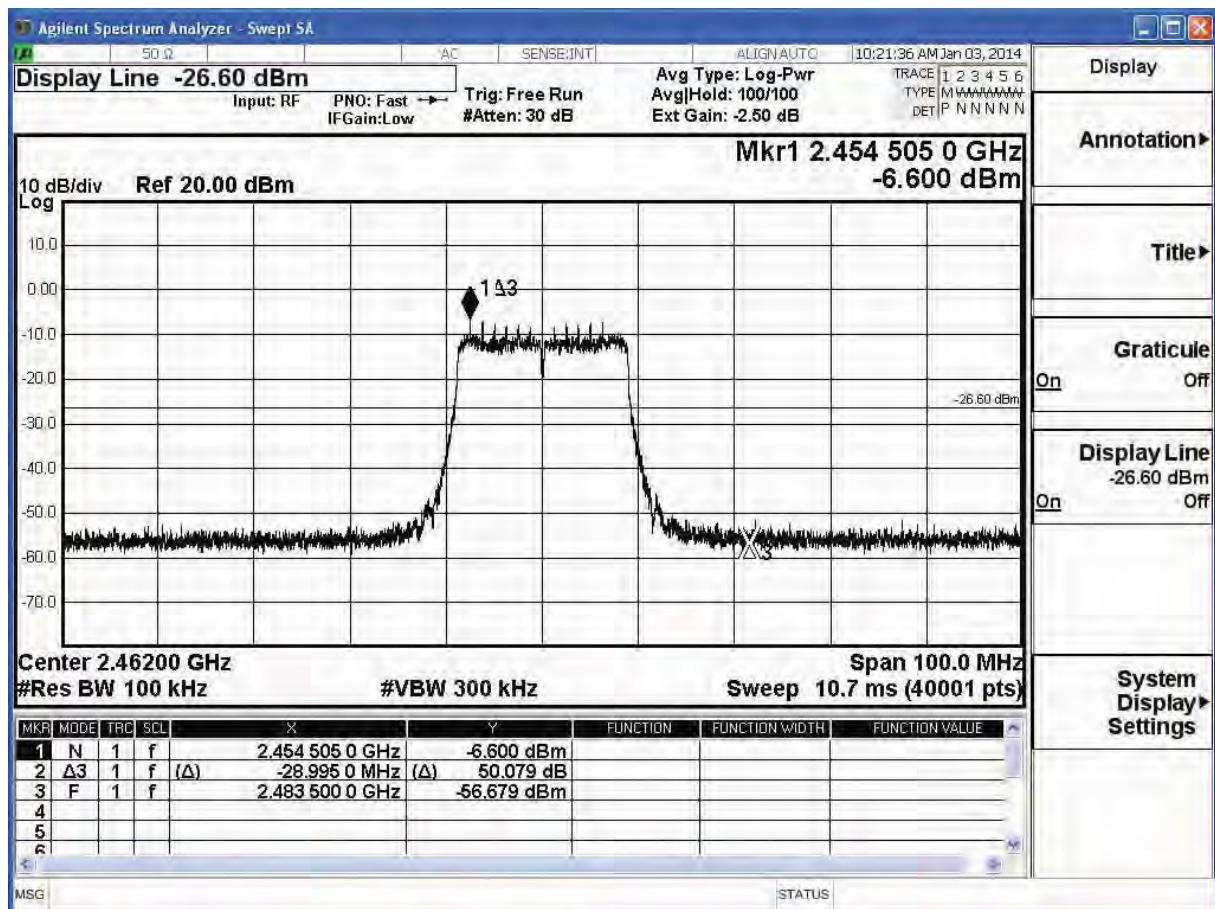
Channel 01 (2412MHz)



Channel 6 (2437MHz)



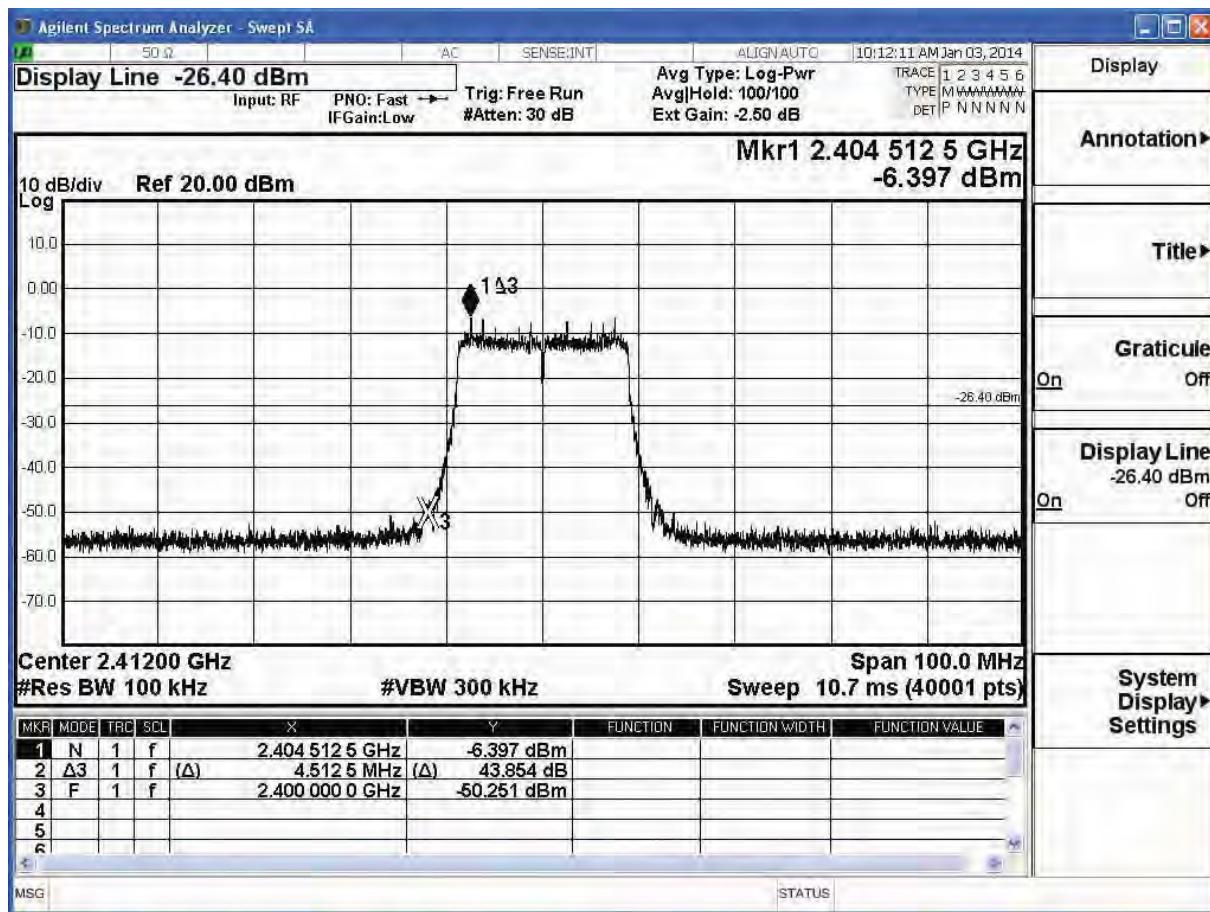
Channel 11 (2462MHz)



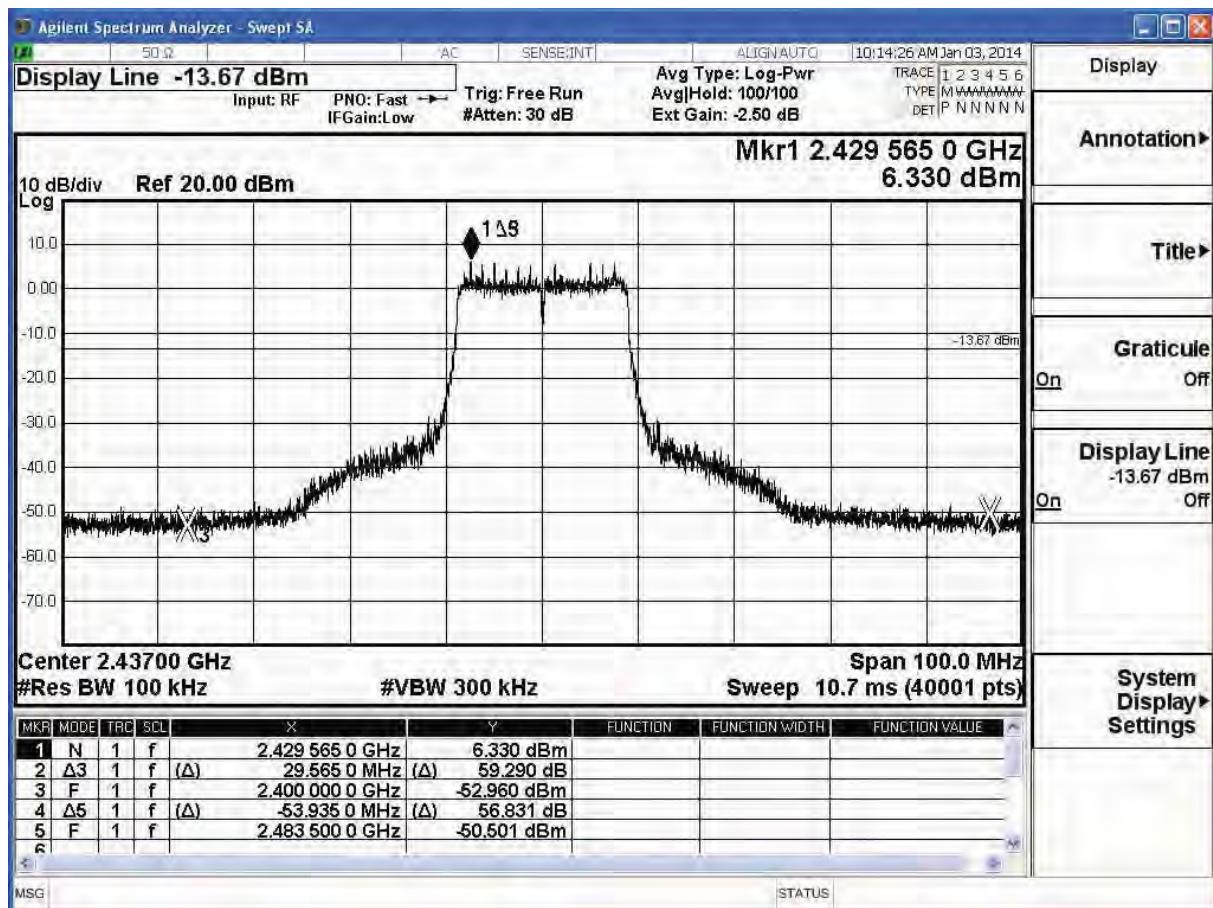
Product	Access Point		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2013/12/05	Test Site	SR7

IEEE 802.11n (20MHz), ANT 1, Duty Cycle: 1

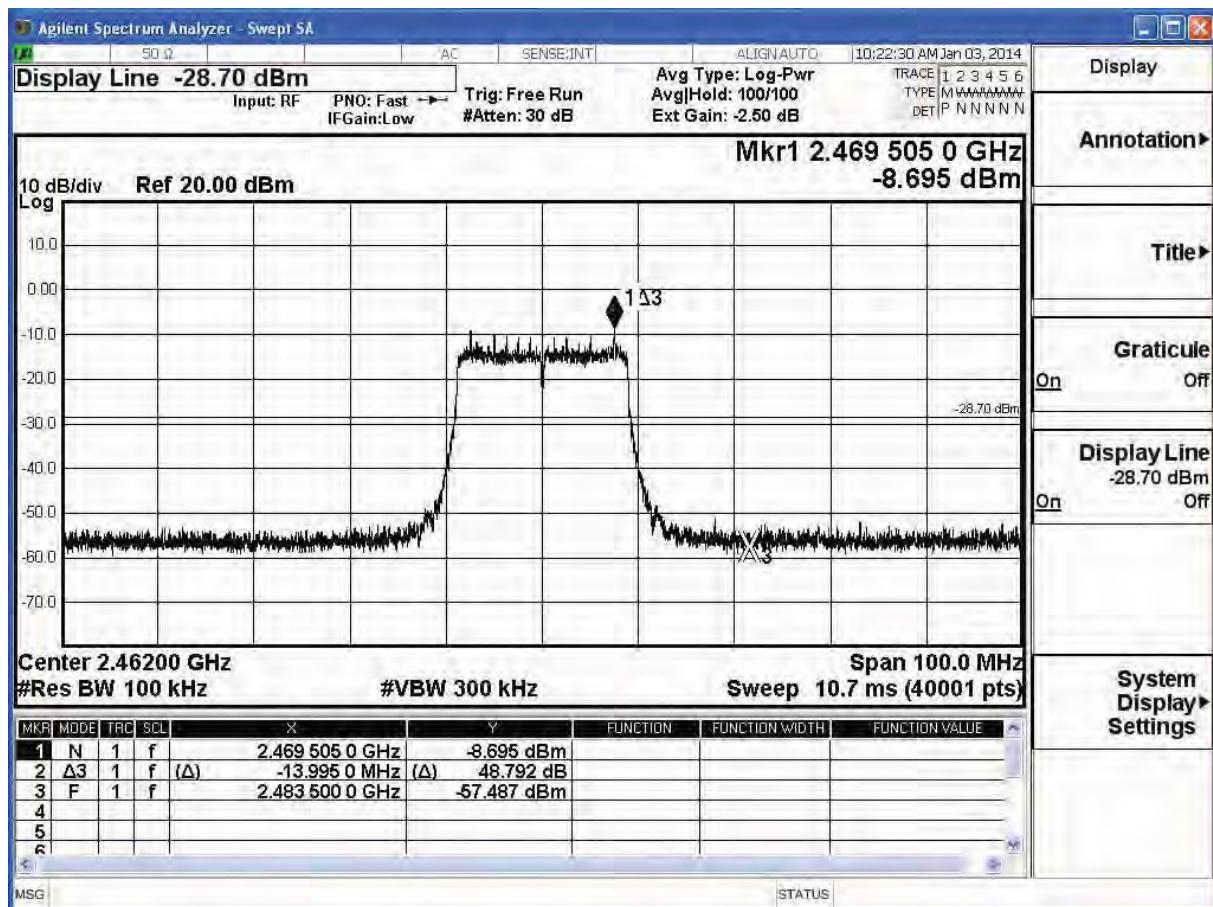
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	43.854	≥20	Pass
6	2437	56.831	≥20	Pass
11	2462	48.792	≥20	Pass

Channel 01 (2412MHz)


Channel 6 (2437MHz)



Channel 11 (2462MHz)

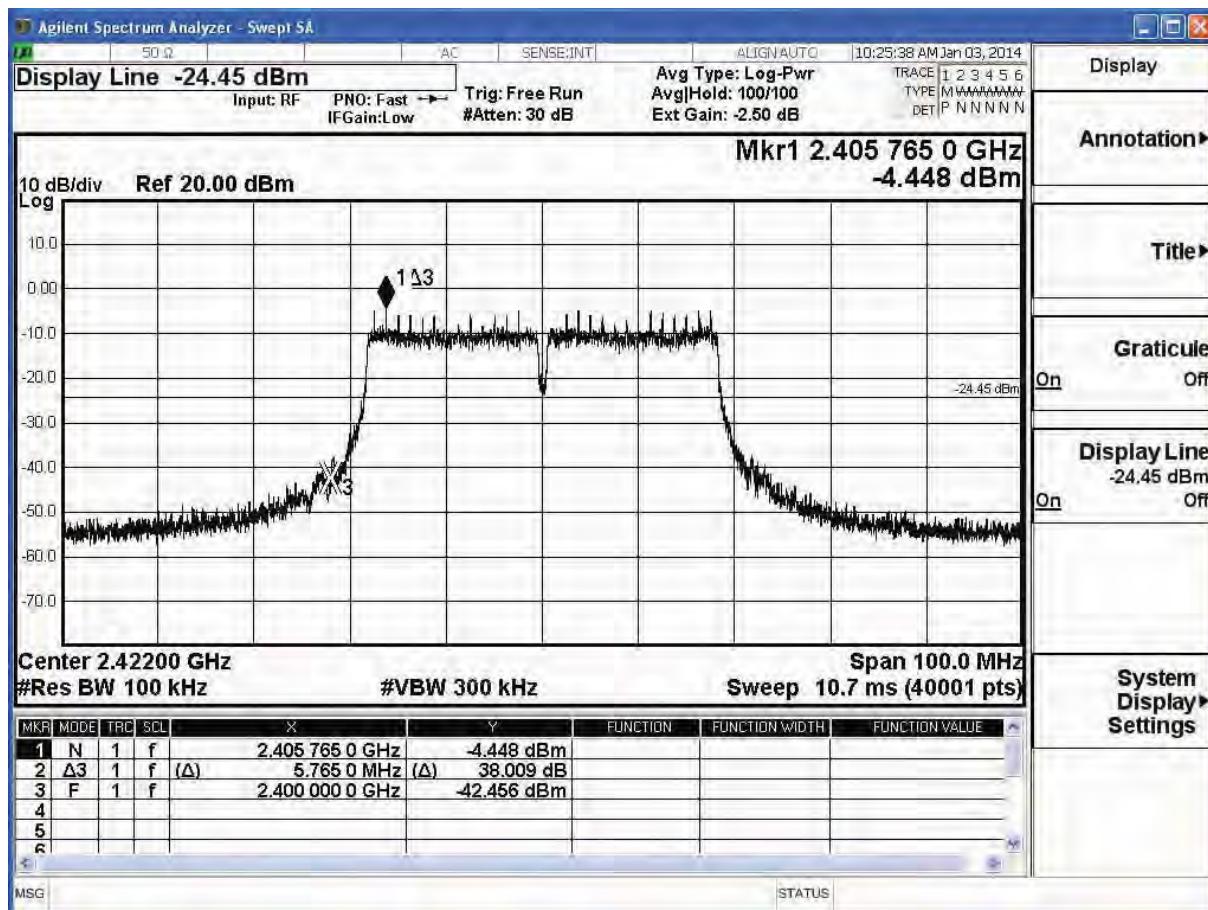


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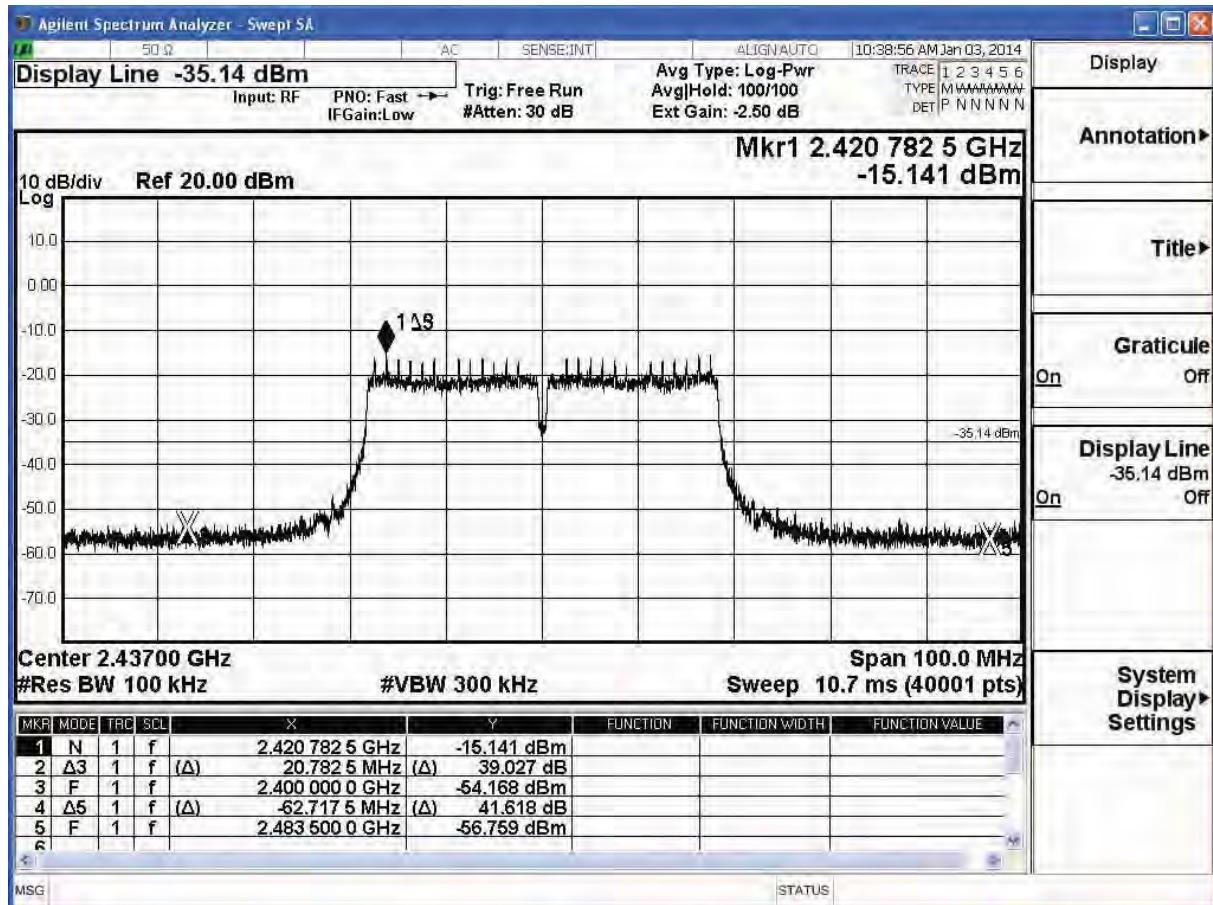
IEEE 802.11n (40MHz), ANT 0, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	38.009	≥20	Pass
6	2437	39.027	≥20	Pass
9	2452	45.893	≥20	Pass

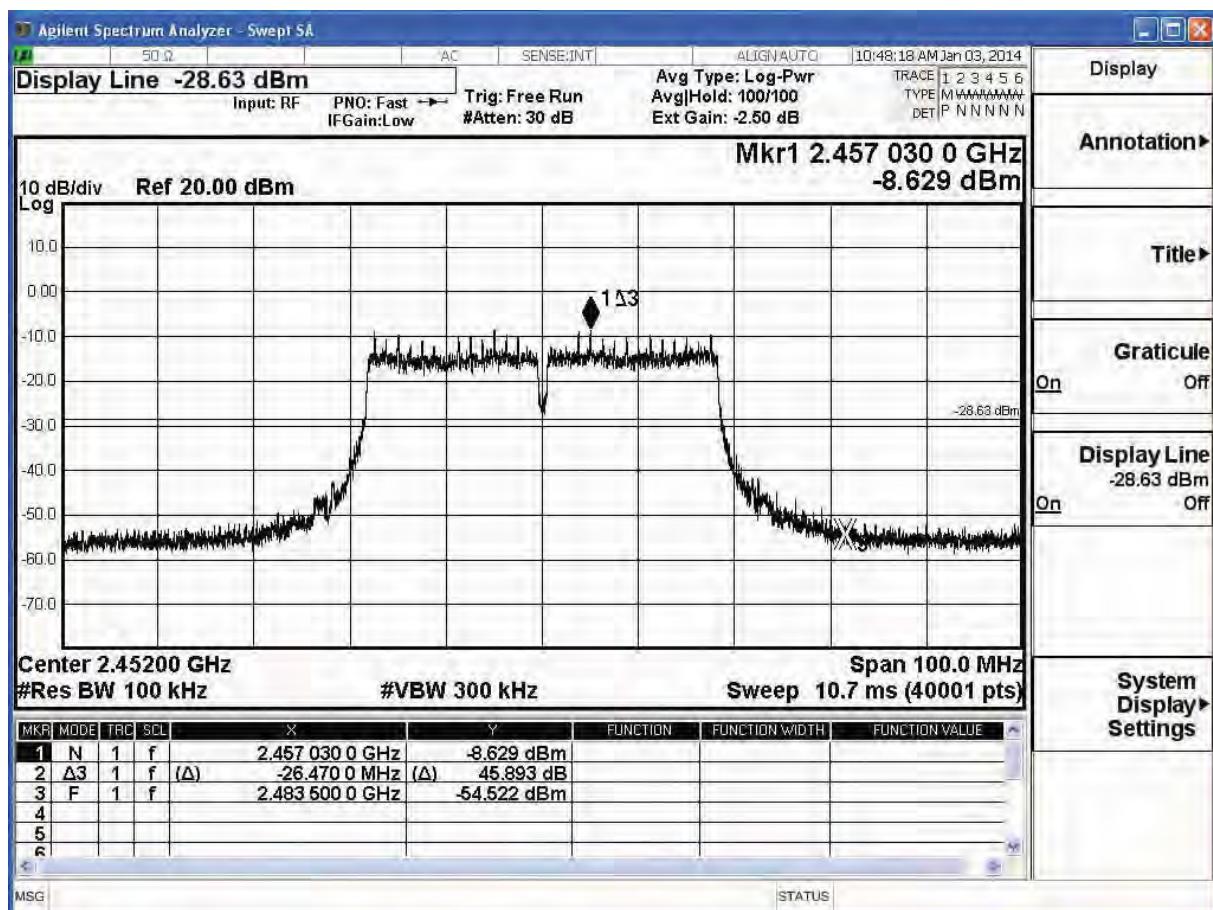
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)

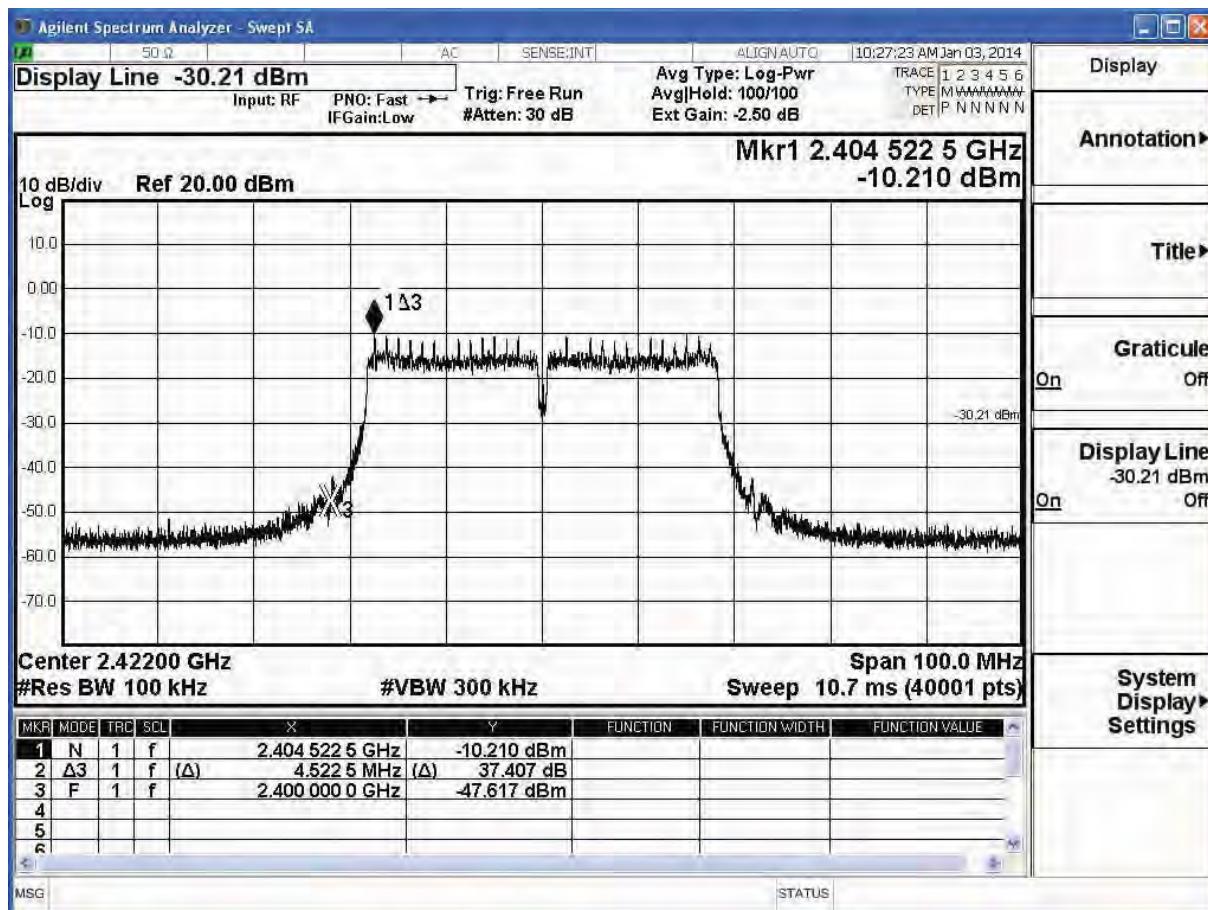


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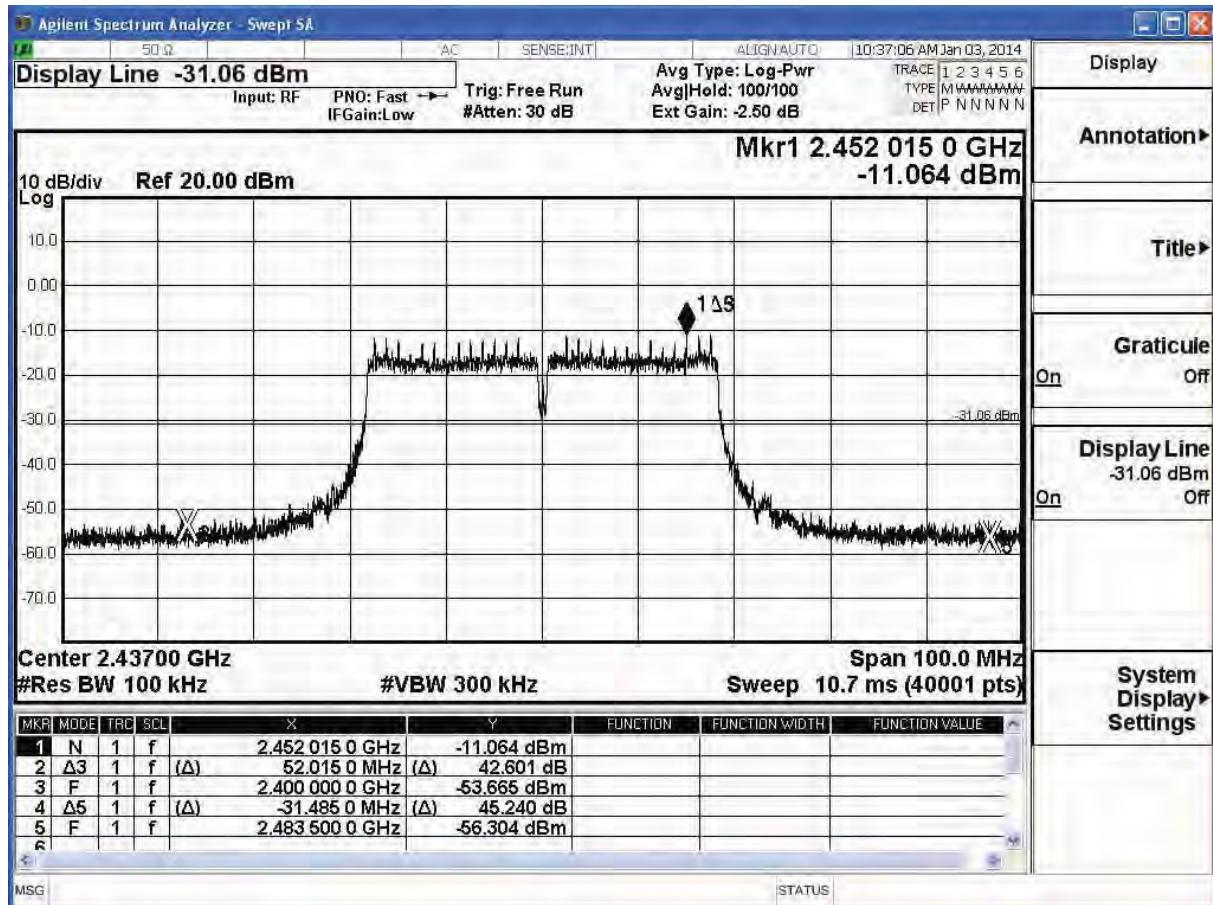
IEEE 802.11n (40MHz), ANT 1, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	37.407	≥20	Pass
6	2437	42.601	≥20	Pass
9	2452	43.282	≥20	Pass

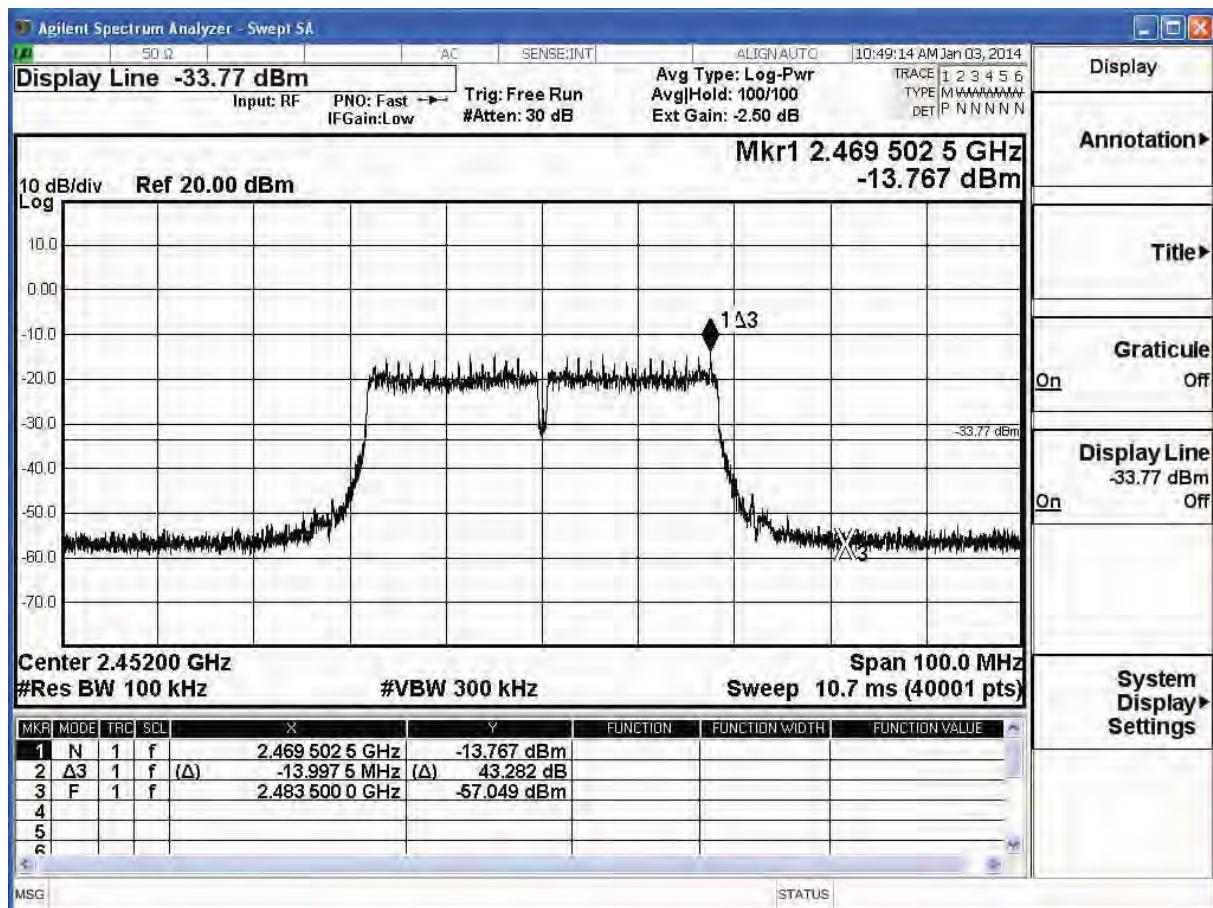
Channel 3 (2422MHz)



Channel 6 (2437MHz)

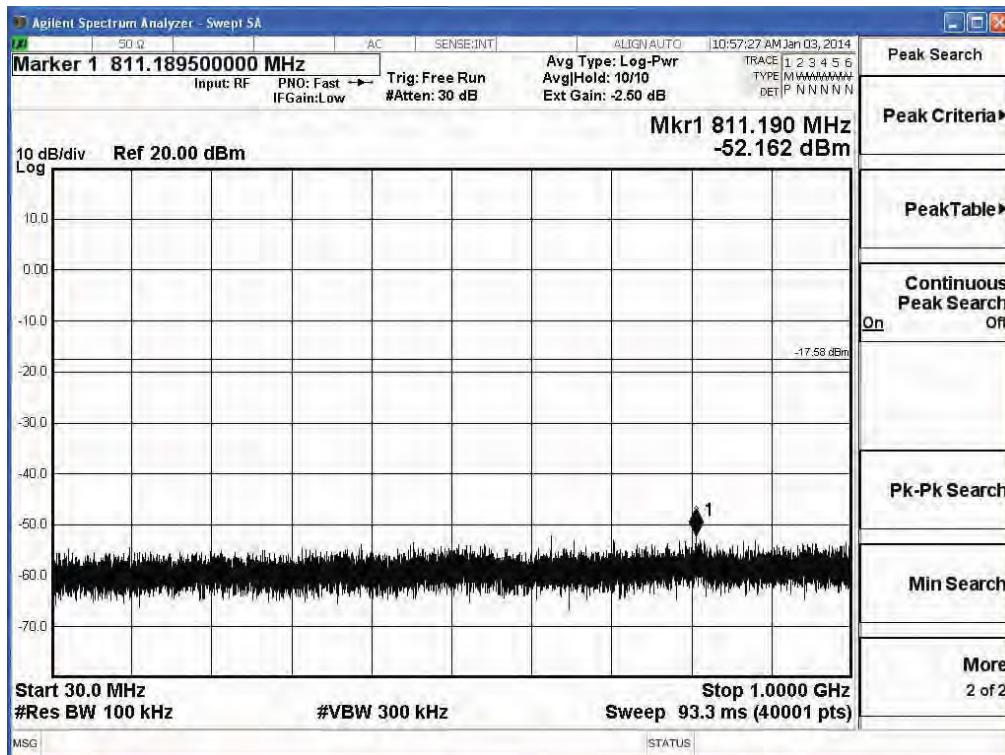


Channel 9 (2452MHz)

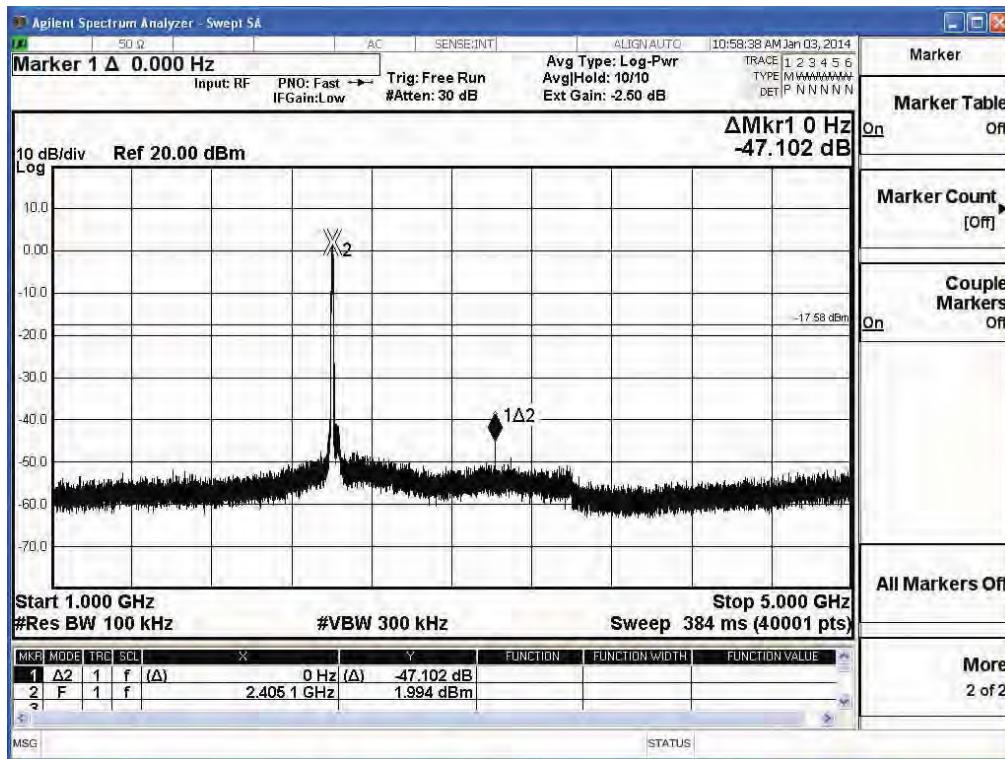


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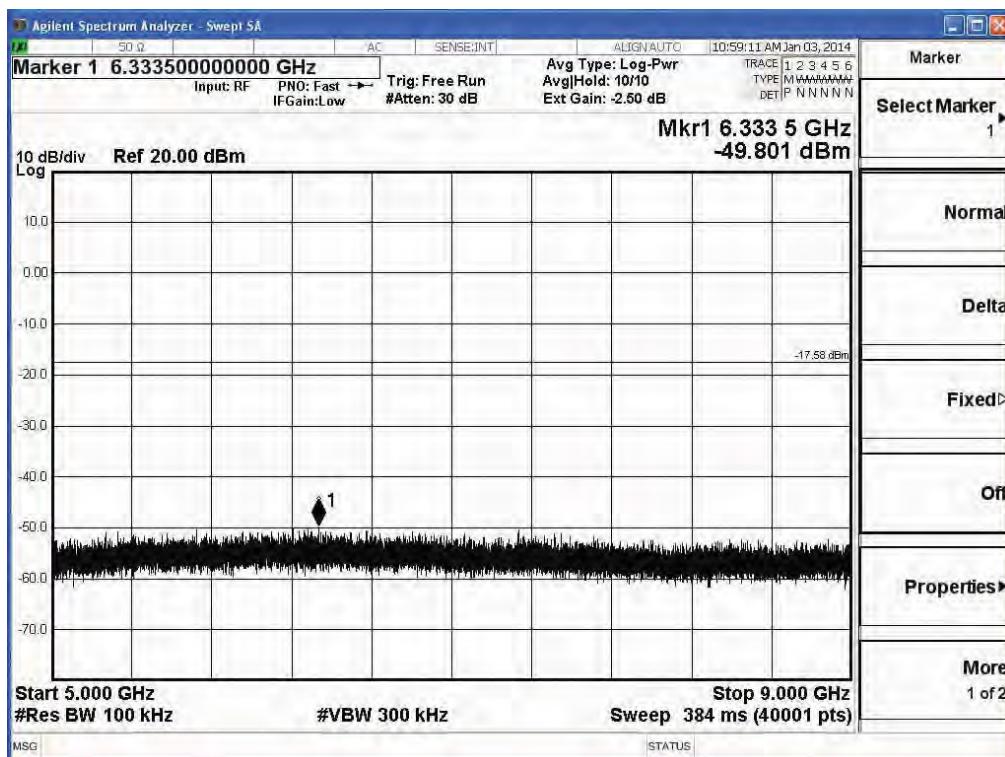
2412MHz (30MHz-1GHz)-802.11b (ANT 0)



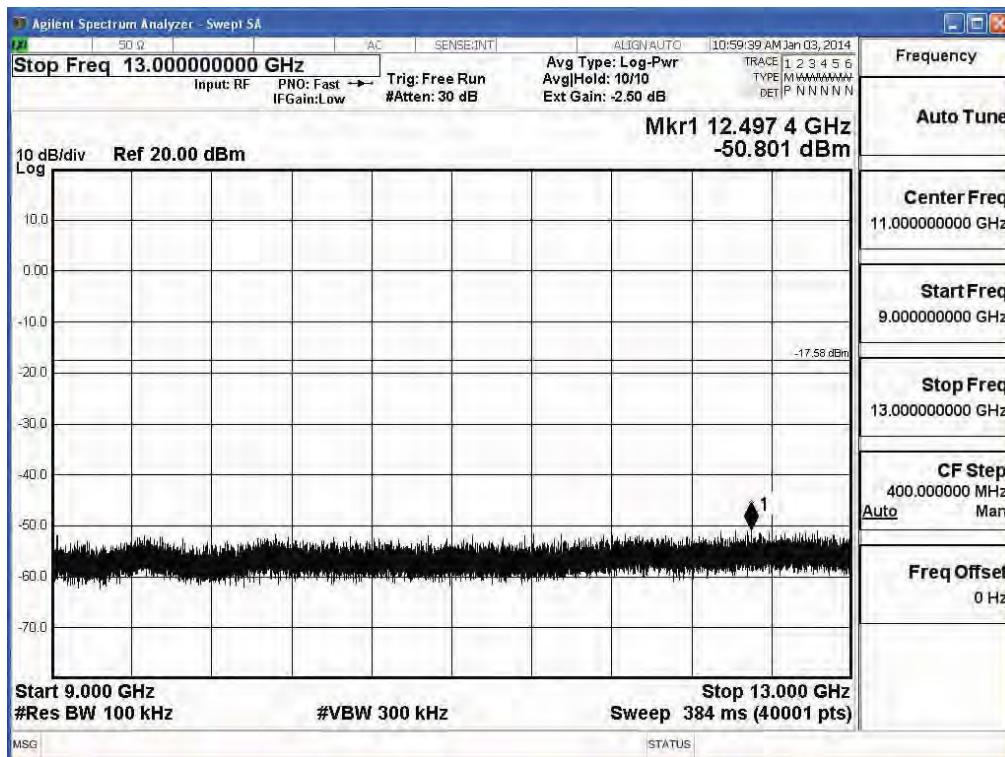
2412MHz (1GHz-5GHz) -802.11b (ANT 0)



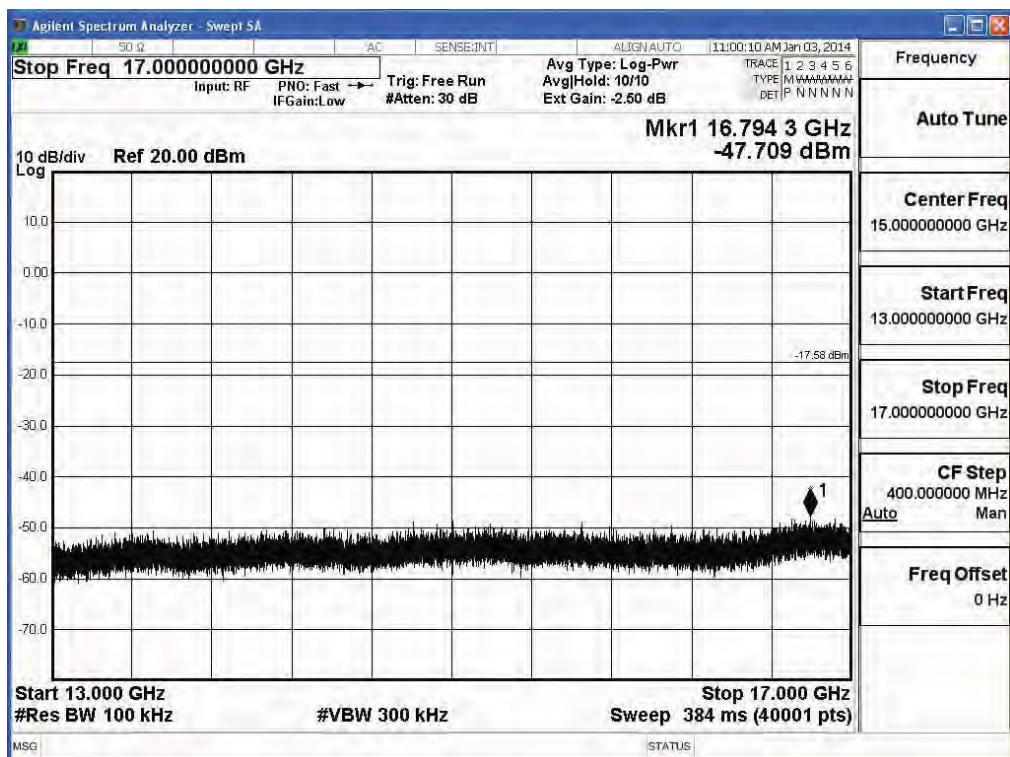
2412MHz (5GHz-9GHz) -802.11b (ANT 0)



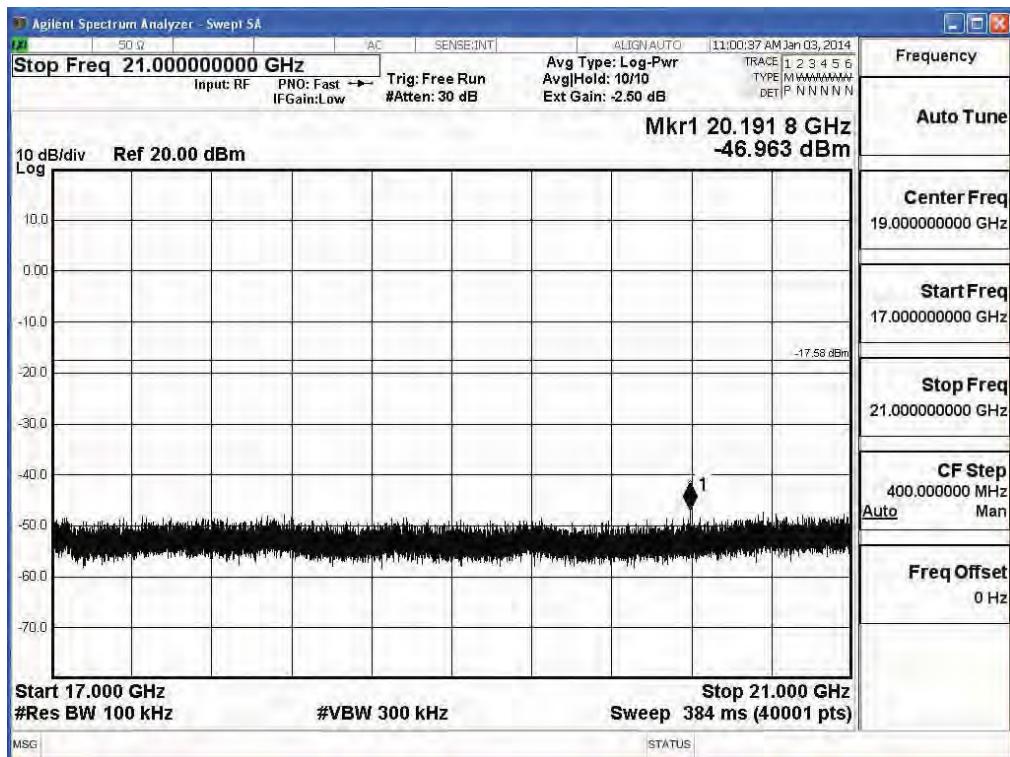
2412MHz (9GHz-13GHz) -802.11b (ANT 0)



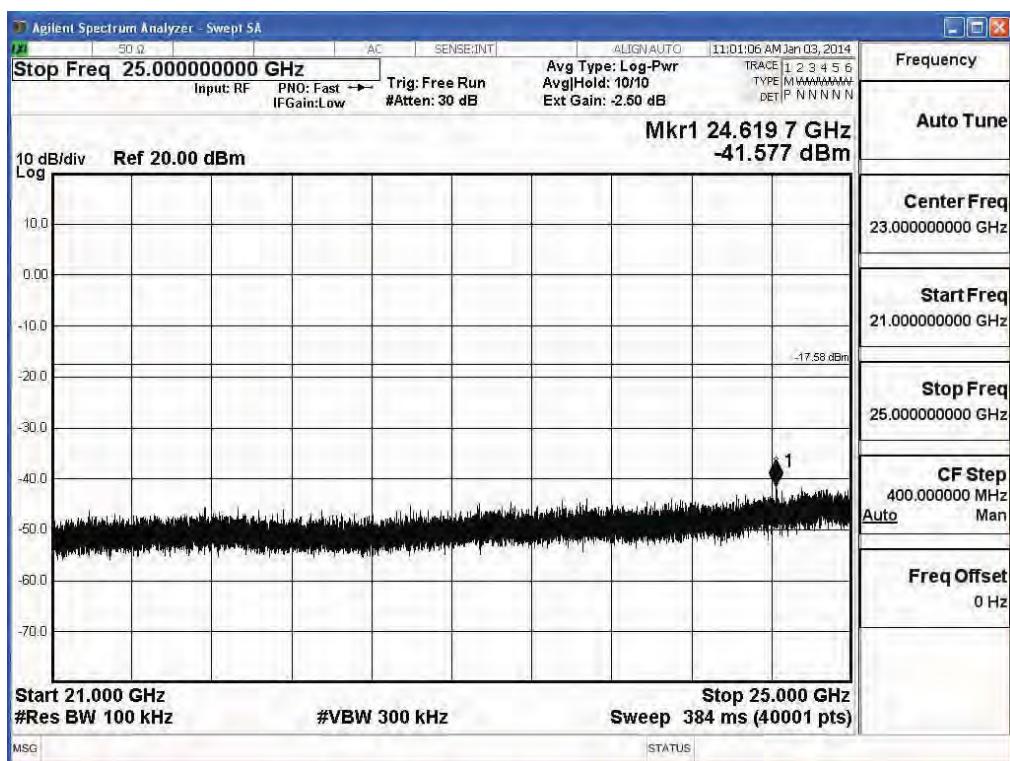
2412MHz (13GHz-17GHz) -802.11b (ANT 0)



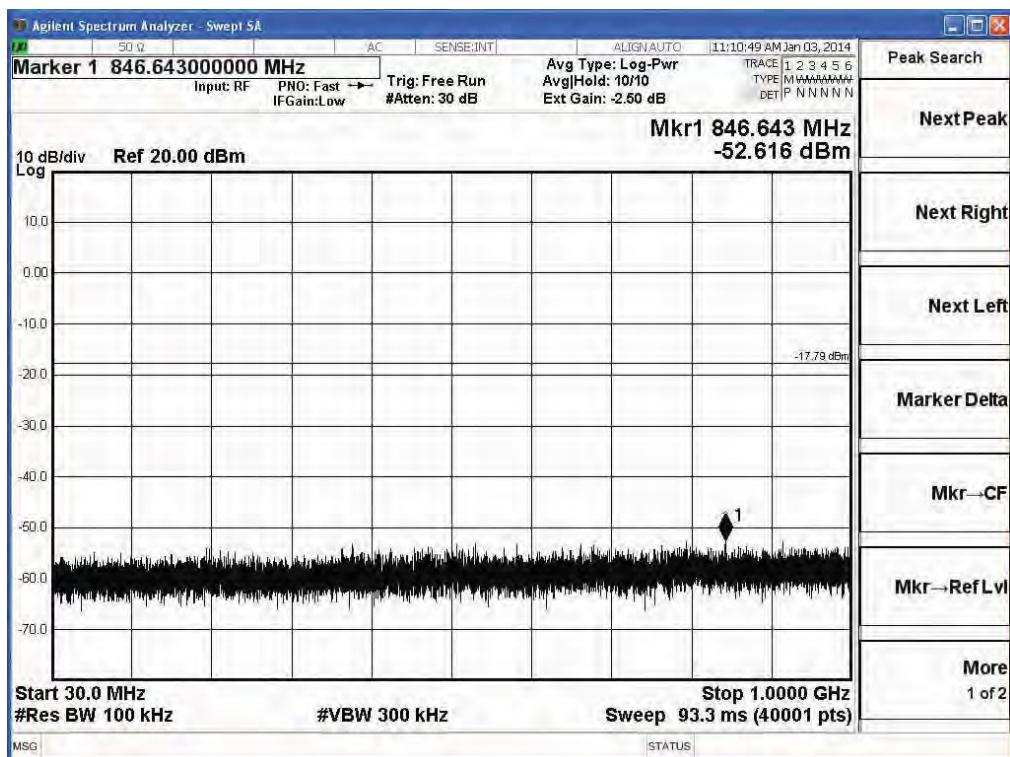
2412MHz (17GHz-21GHz) -802.11b (ANT 0)



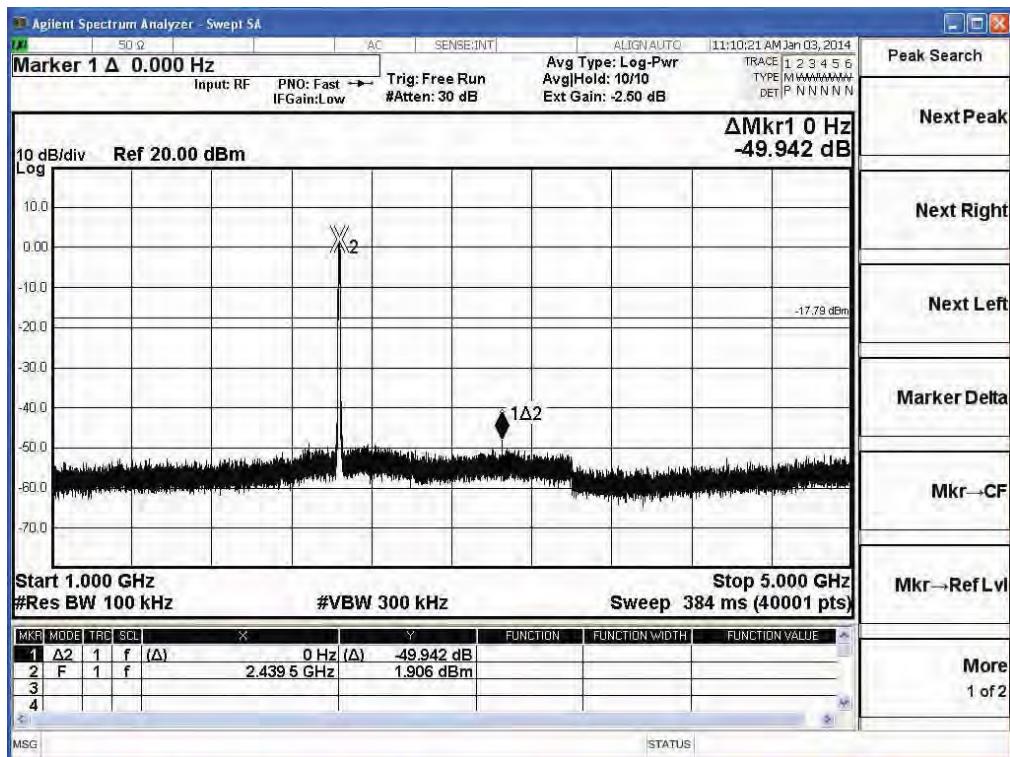
2412MHz (21GHz-25GHz) -802.11b (ANT 0)



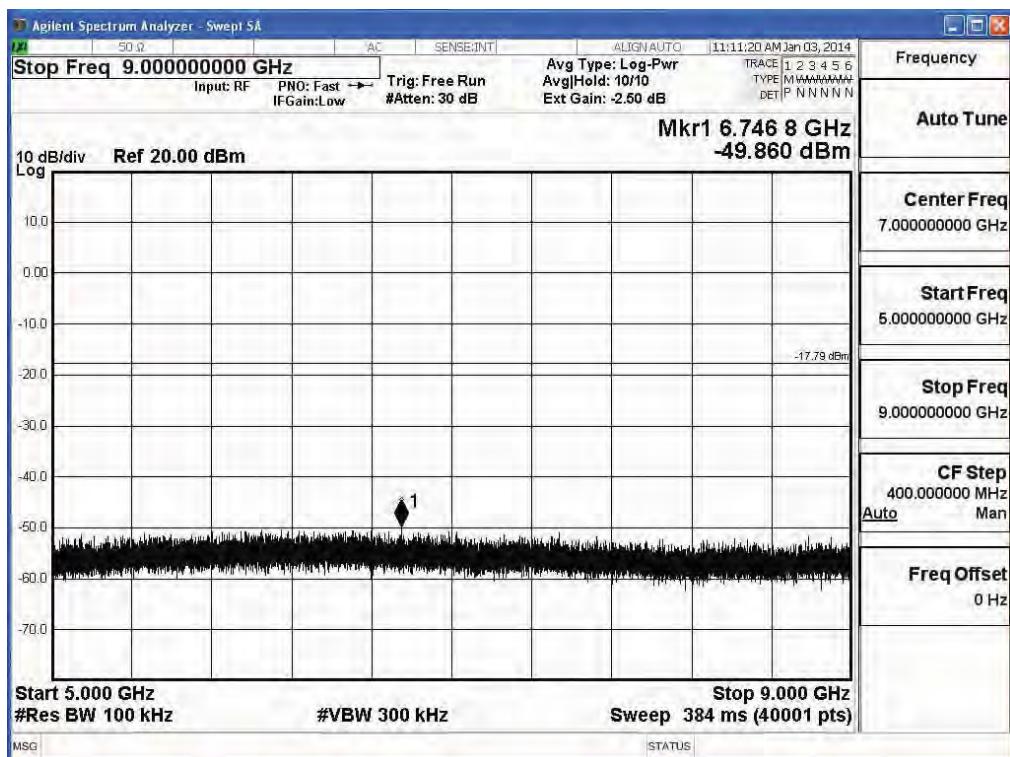
2437MHz (30MHz-1GHz)-802.11b (ANT 0)



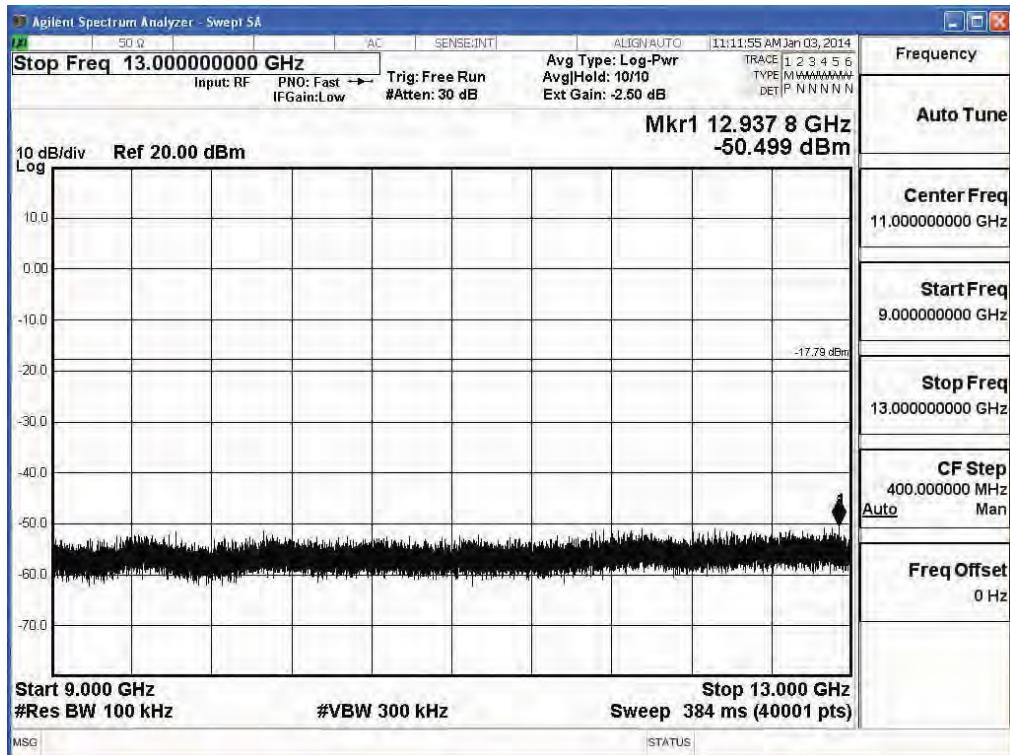
2437MHz (1GHz-5GHz) -802.11b (ANT 0)



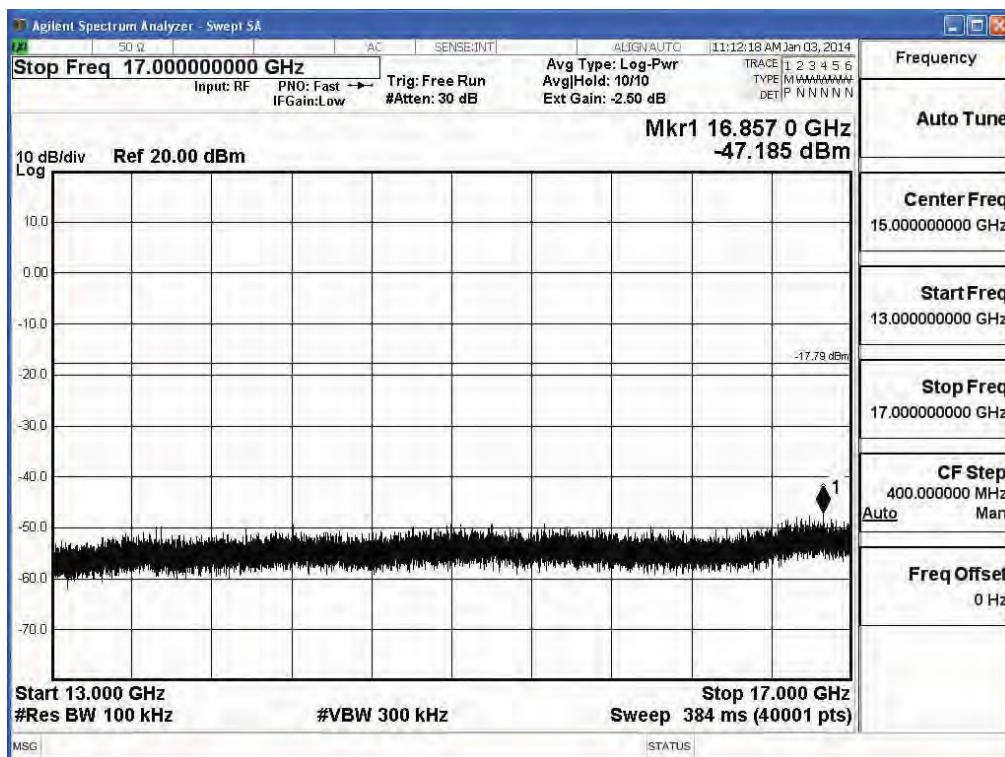
2437MHz (5GHz-9GHz) -802.11b (ANT 0)



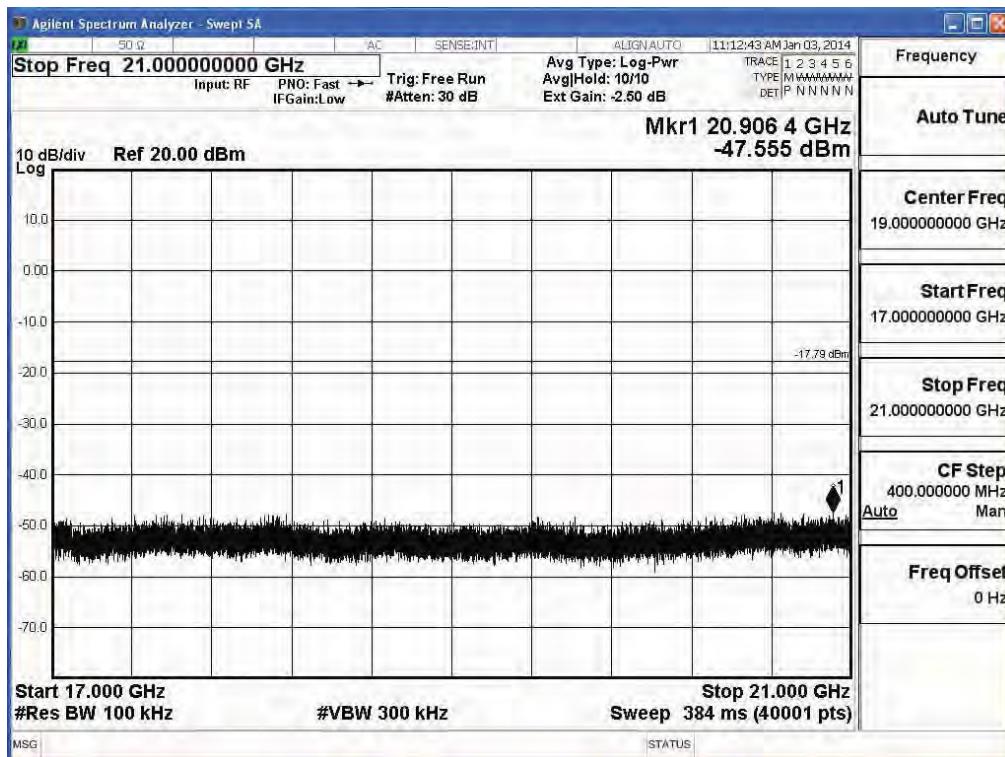
2437MHz (9GHz-13GHz) -802.11b (ANT 0)



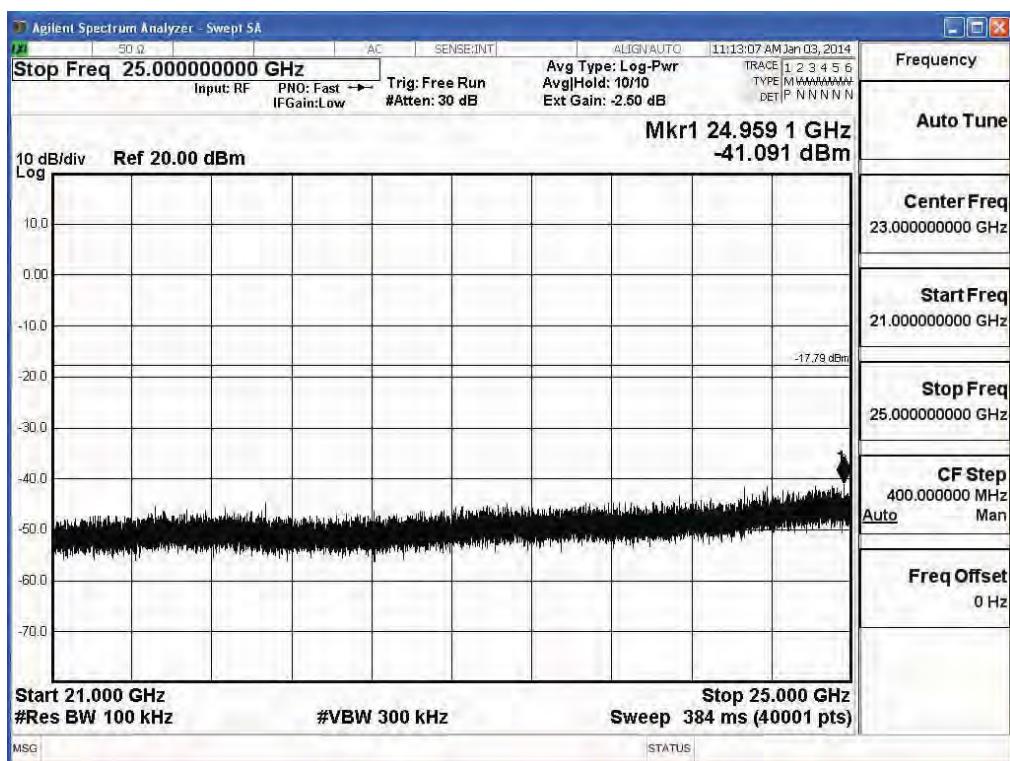
2437MHz (13GHz-17GHz) -802.11b (ANT 0)



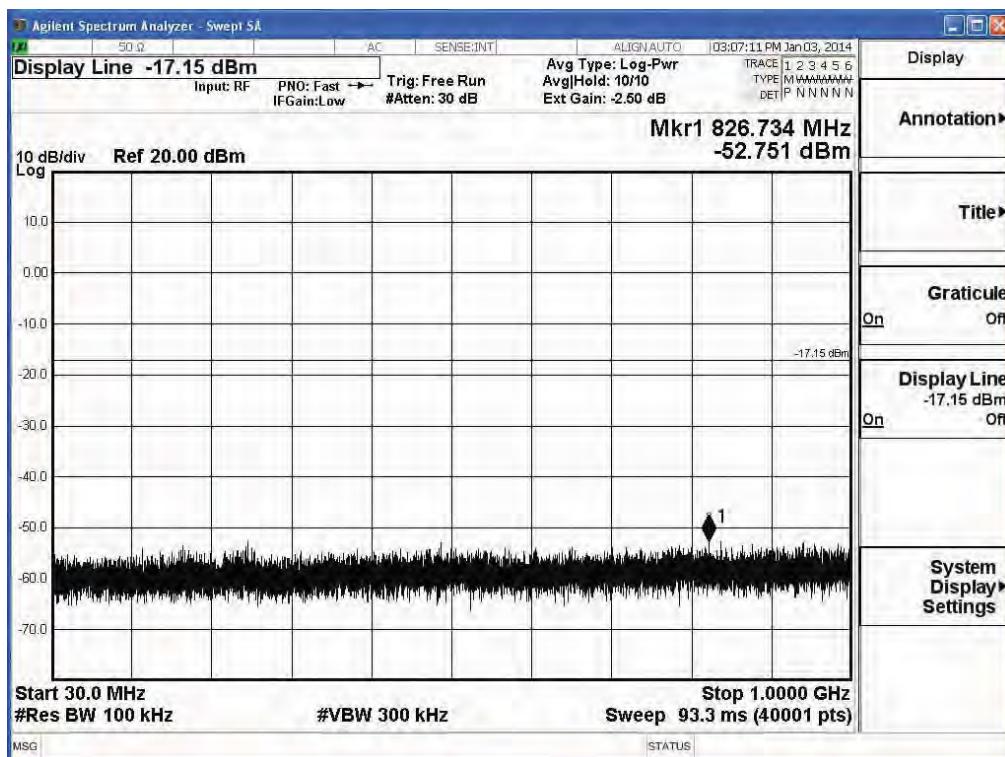
2437MHz (17GHz-21GHz) -802.11b (ANT 0)



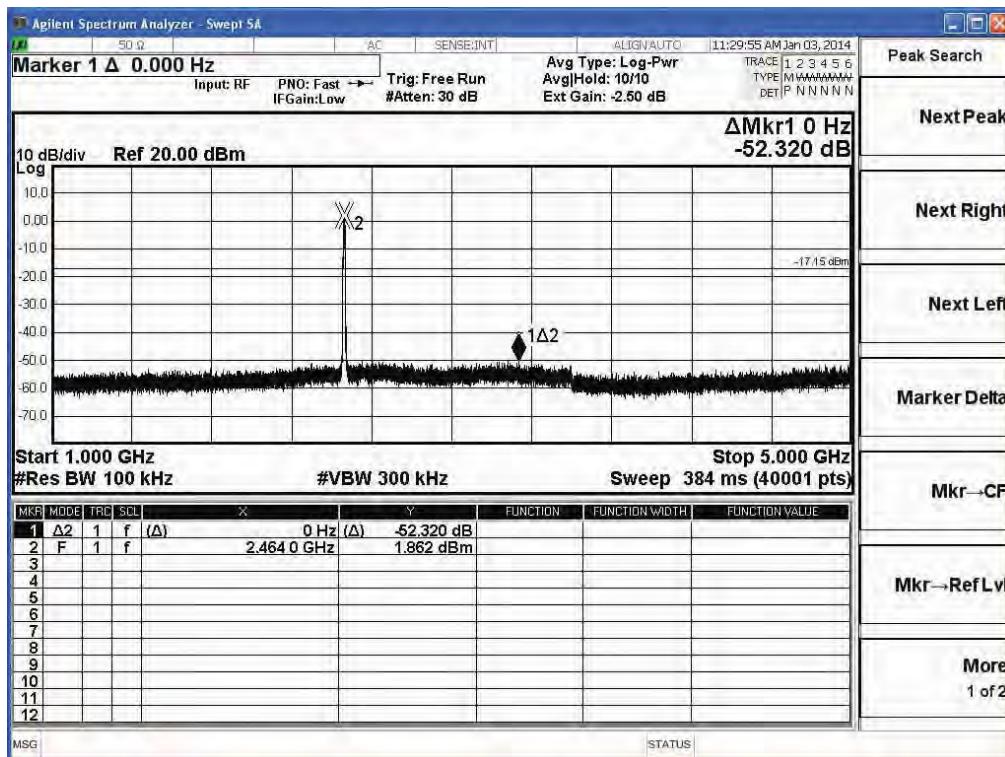
2437MHz (21GHz-25GHz) -802.11b (ANT 0)



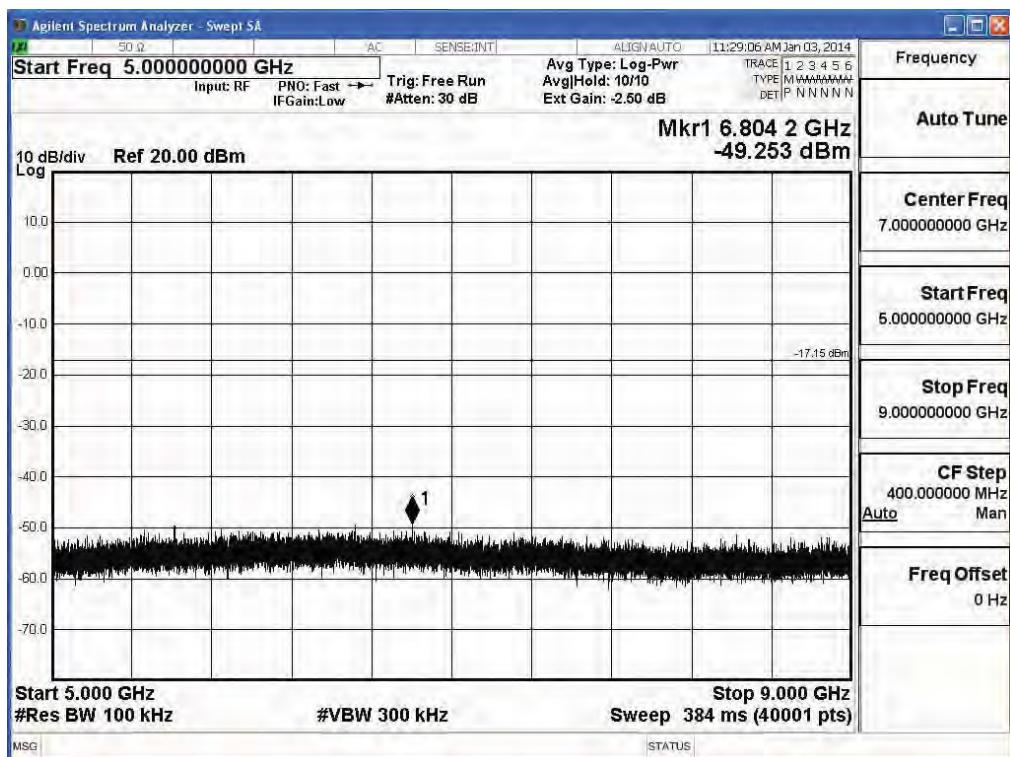
2462MHz (30MHz-1GHz)-802.11b (ANT 0)



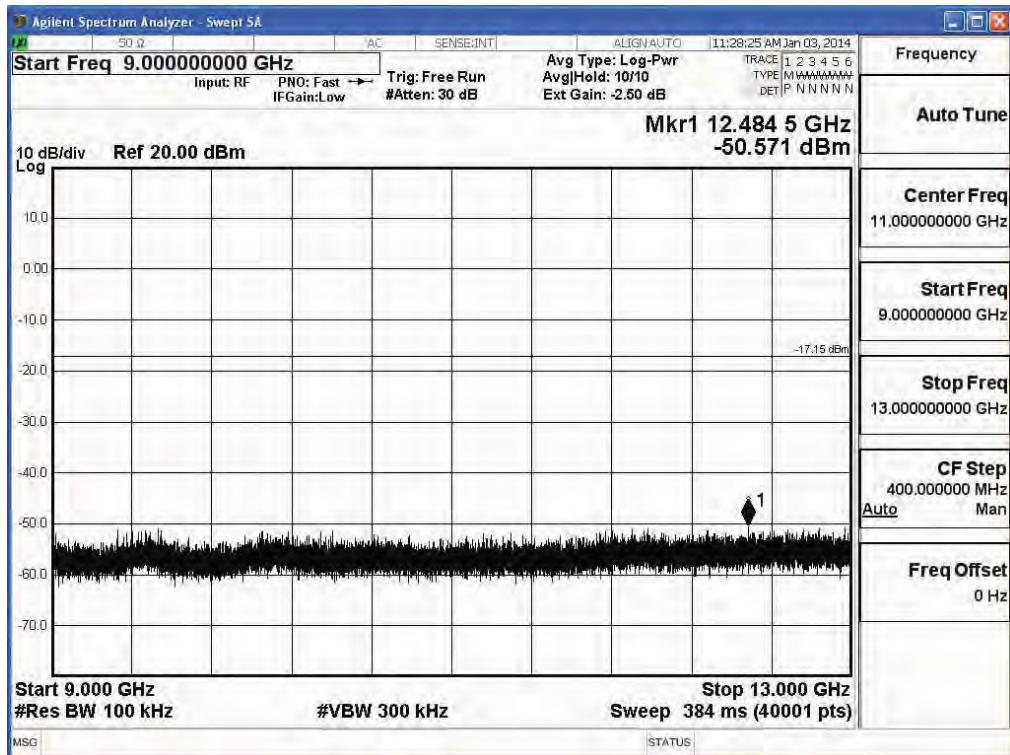
2462MHz (1GHz-5GHz) -802.11b (ANT 0)



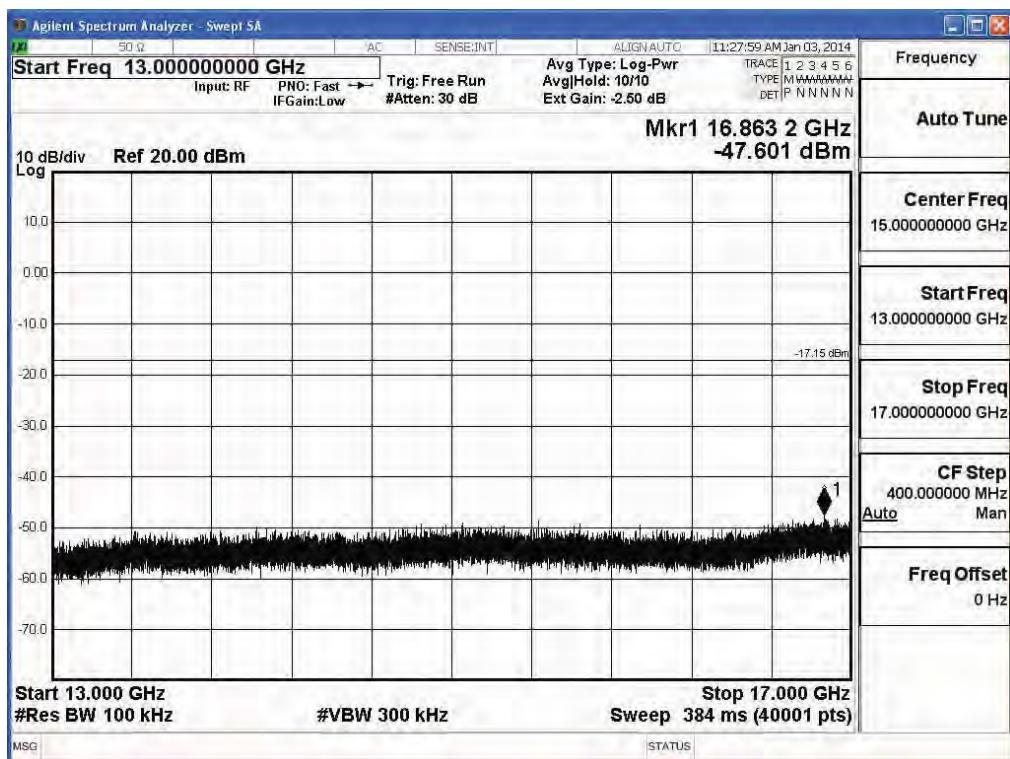
2462MHz (5GHz-9GHz) -802.11b (ANT 0)



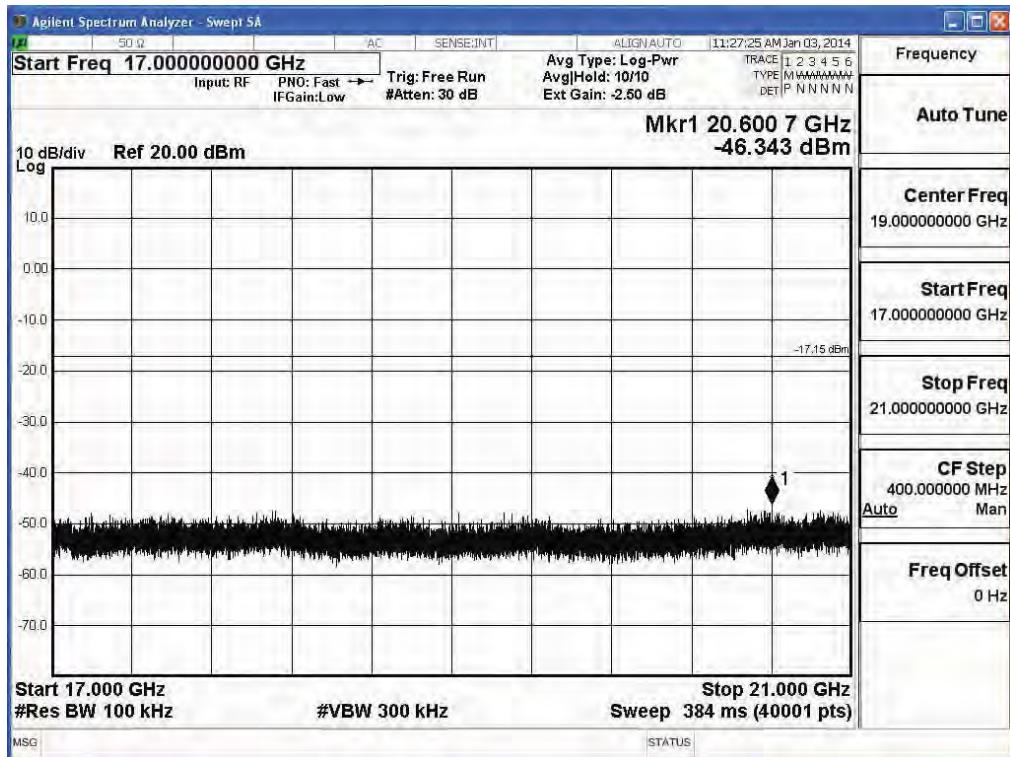
2462MHz (9GHz-13GHz) -802.11b (ANT 0)



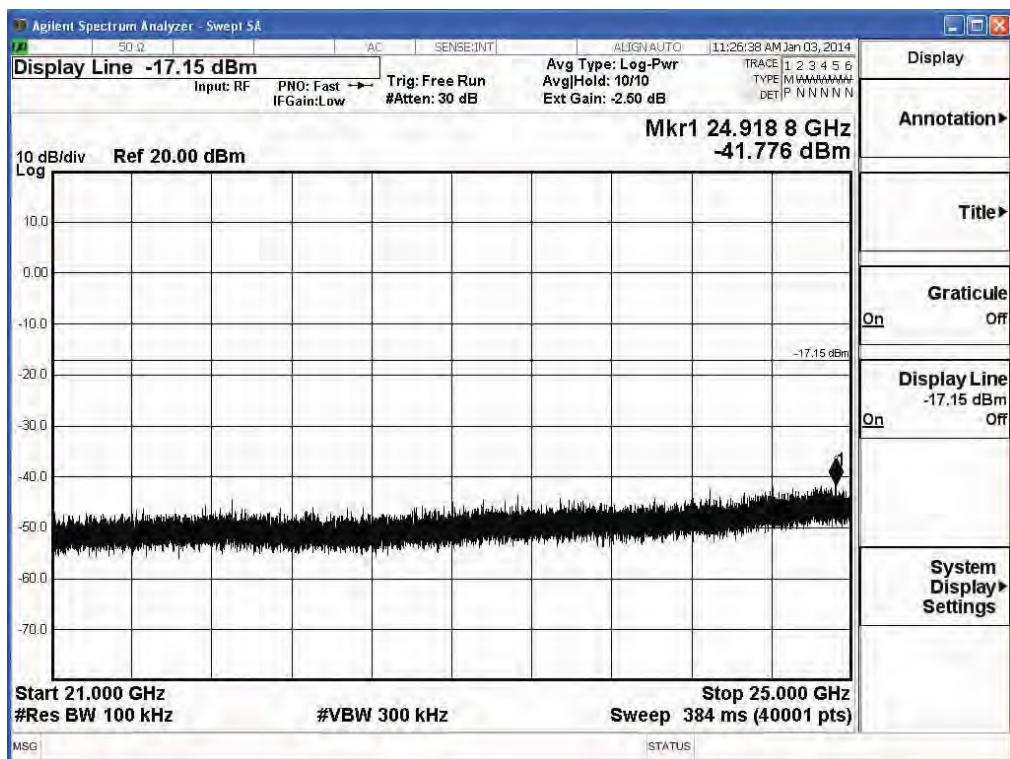
2462MHz (13GHz-17GHz) -802.11b (ANT 0)



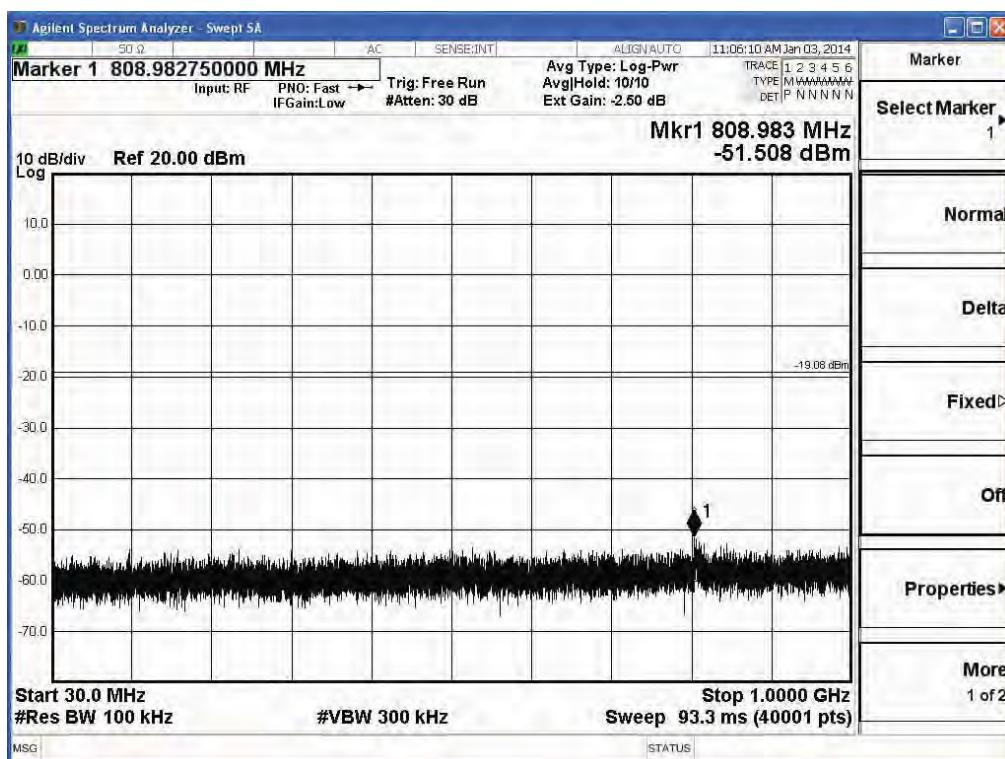
2462MHz (17GHz-21GHz) -802.11b (ANT 0)



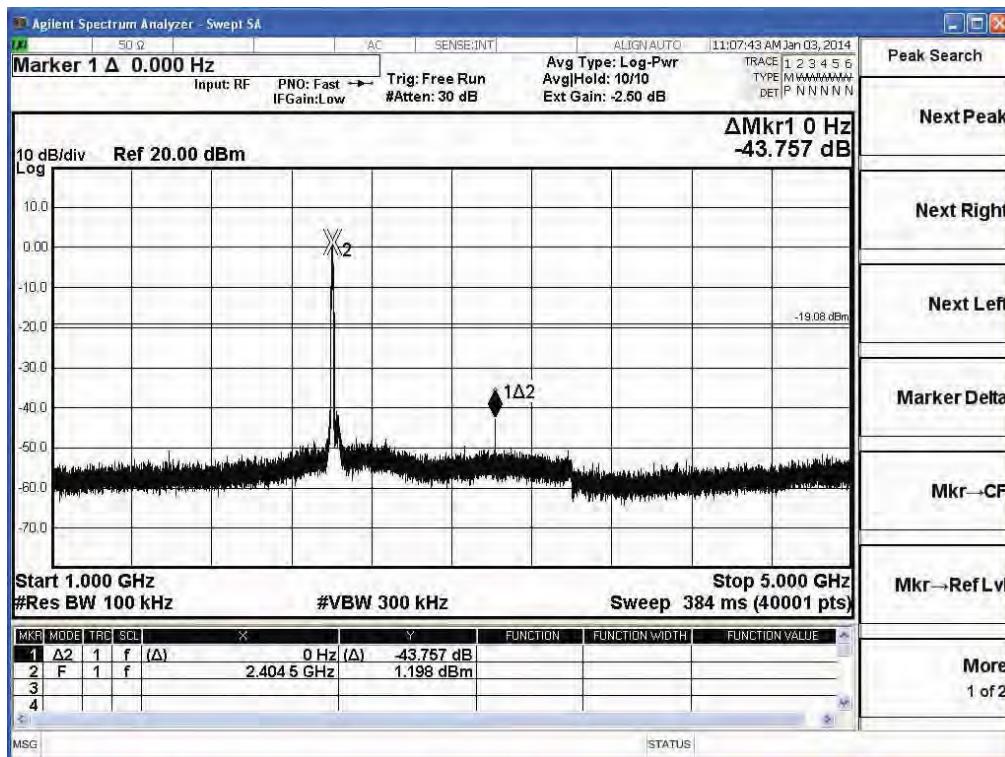
2462MHz (21GHz-25GHz) -802.11b (ANT 0)



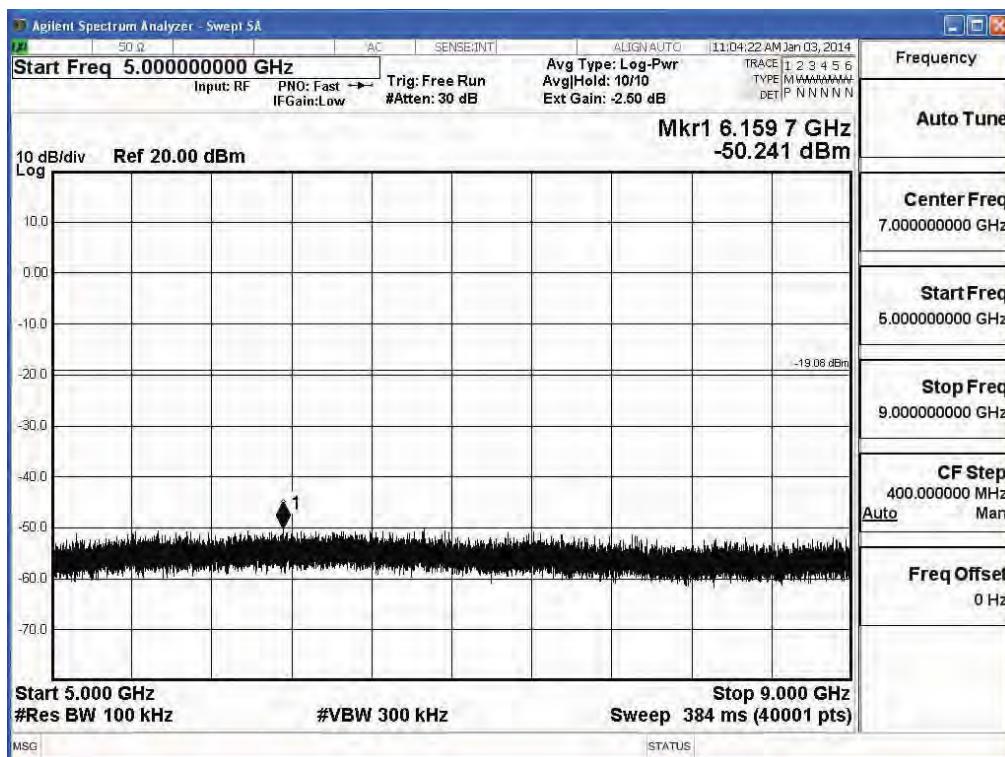
2412MHz (30MHz-1GHz)-802.11b (ANT 1)



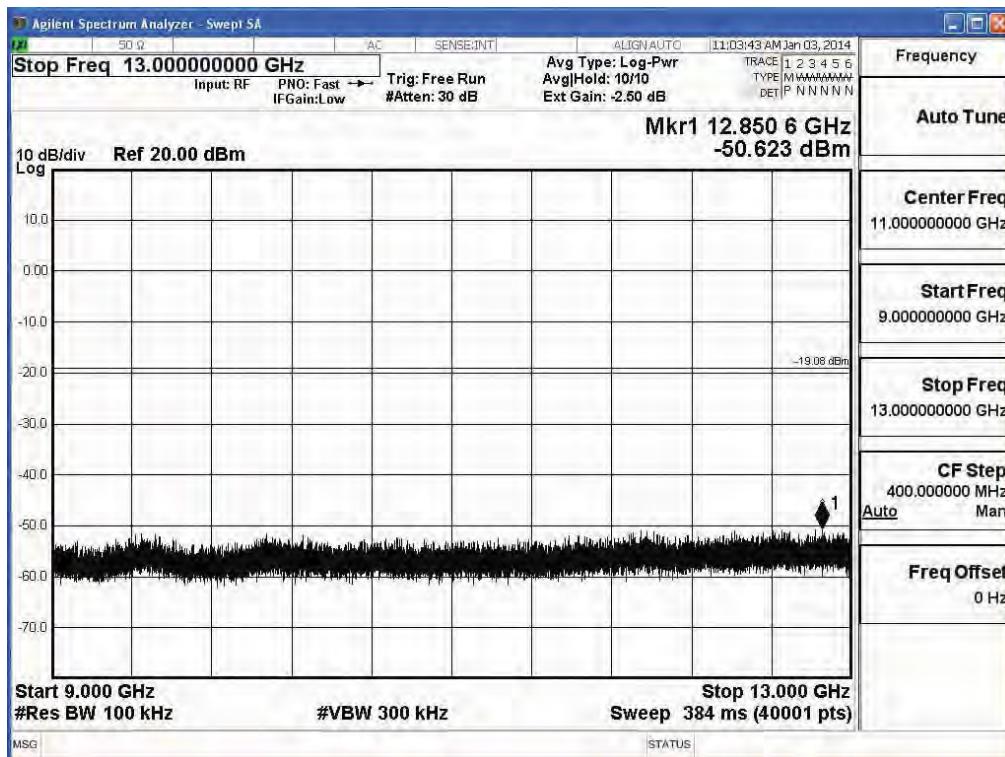
2412MHz (1GHz-5GHz) -802.11b (ANT 1)



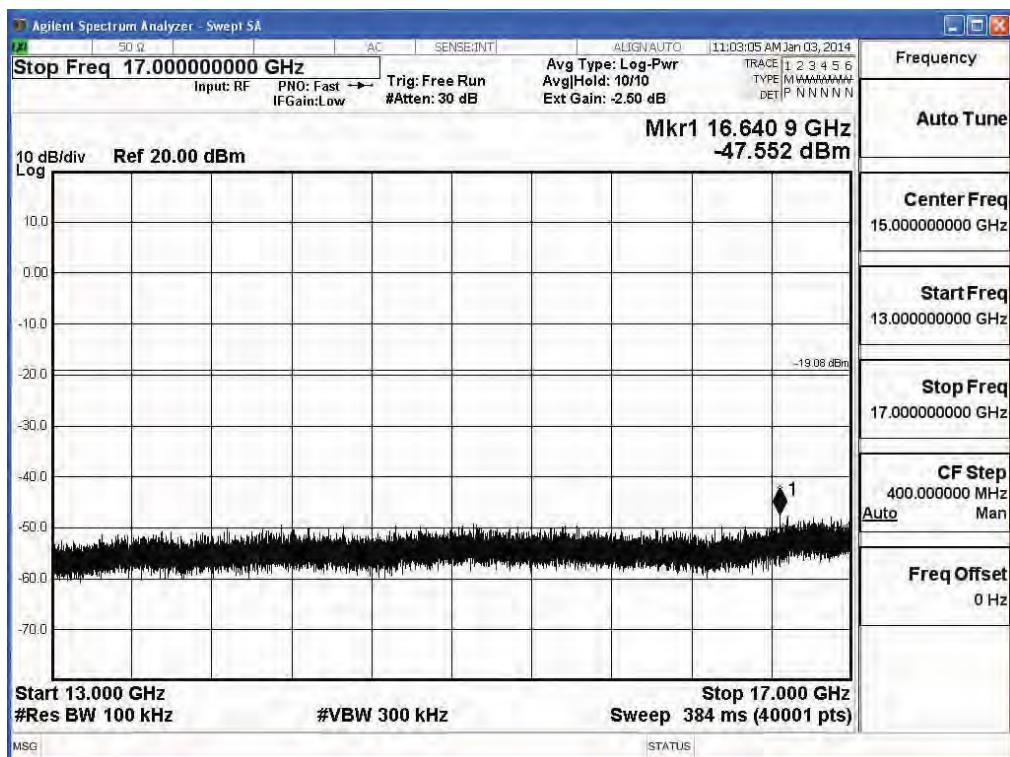
2412MHz (5GHz-9GHz) -802.11b (ANT 1)



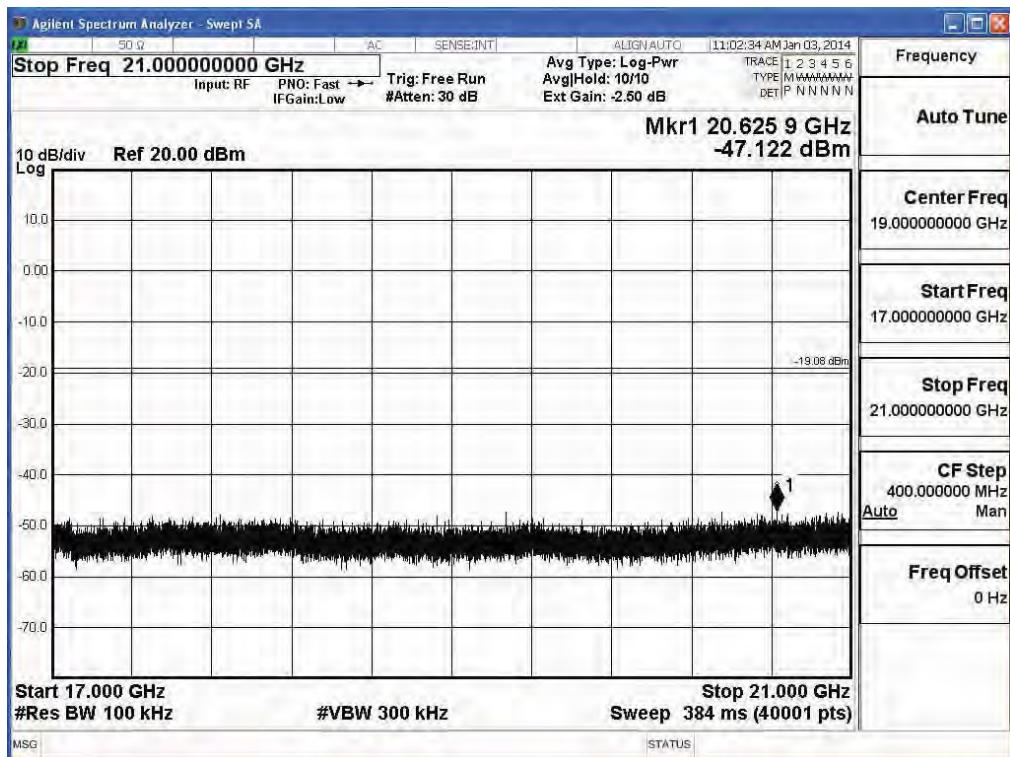
2412MHz (9GHz-13GHz) -802.11b (ANT 1)



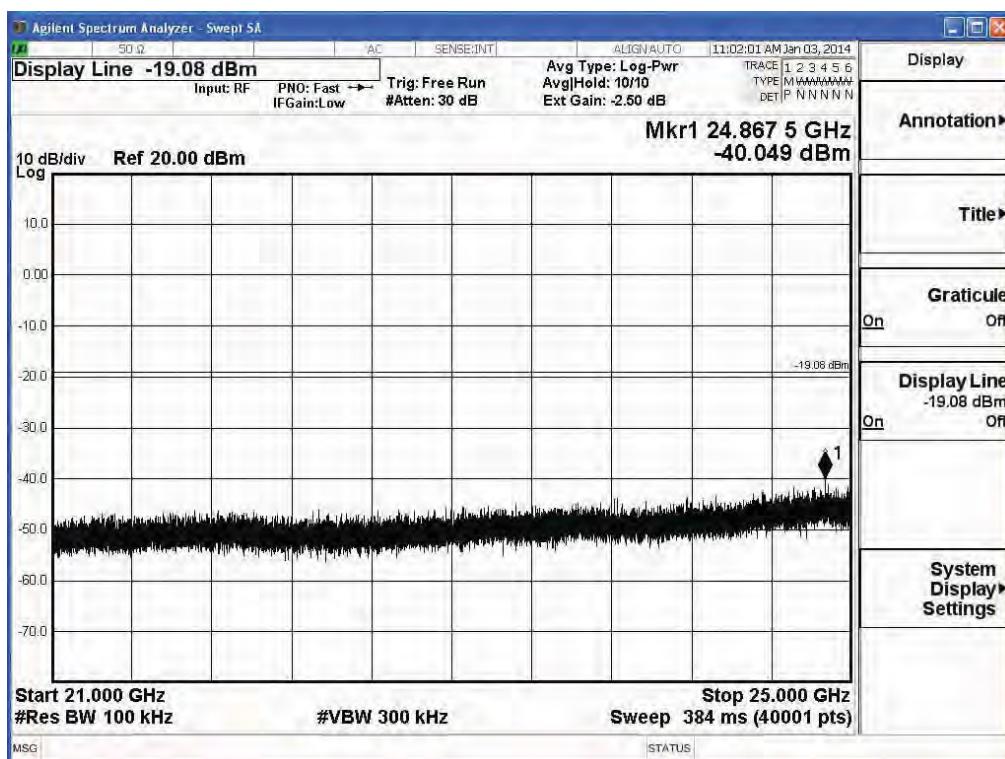
2412MHz (13GHz-17GHz) -802.11b (ANT 1)



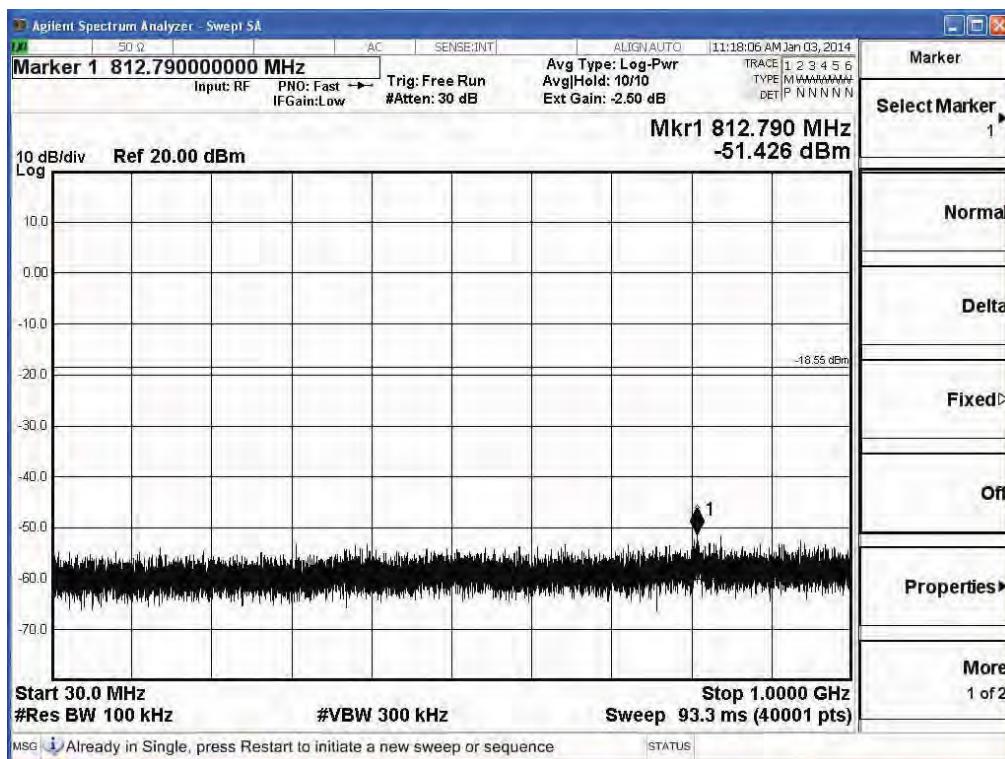
2412MHz (17GHz-21GHz) -802.11b (ANT 1)



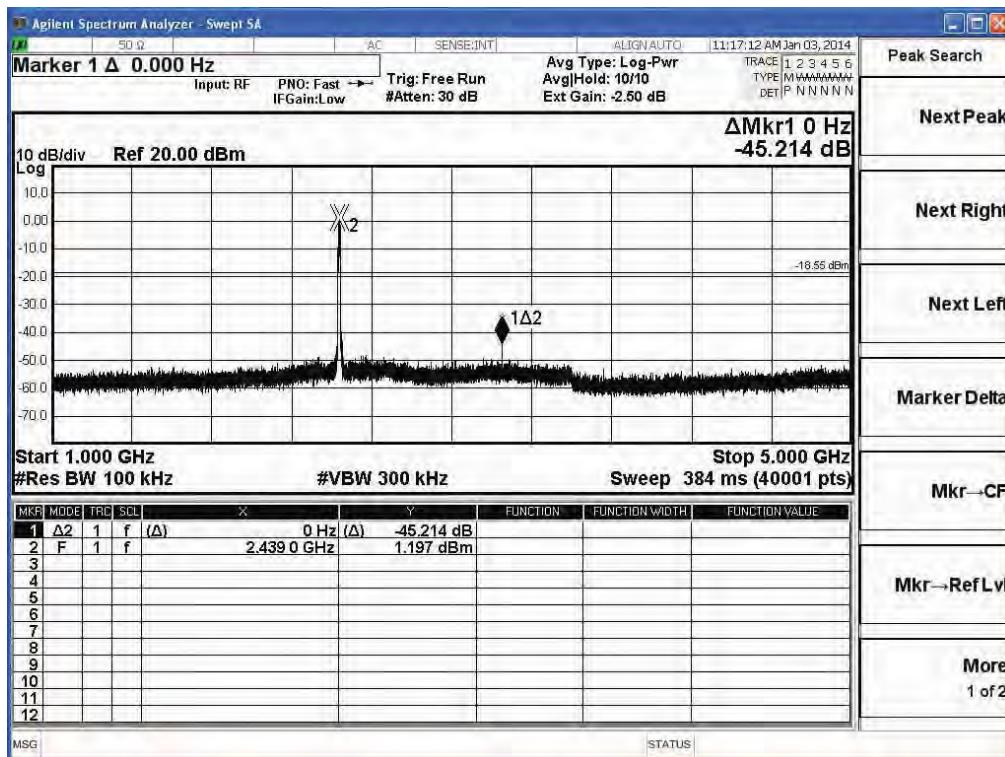
2412MHz (21GHz-25GHz) -802.11b (ANT 1)



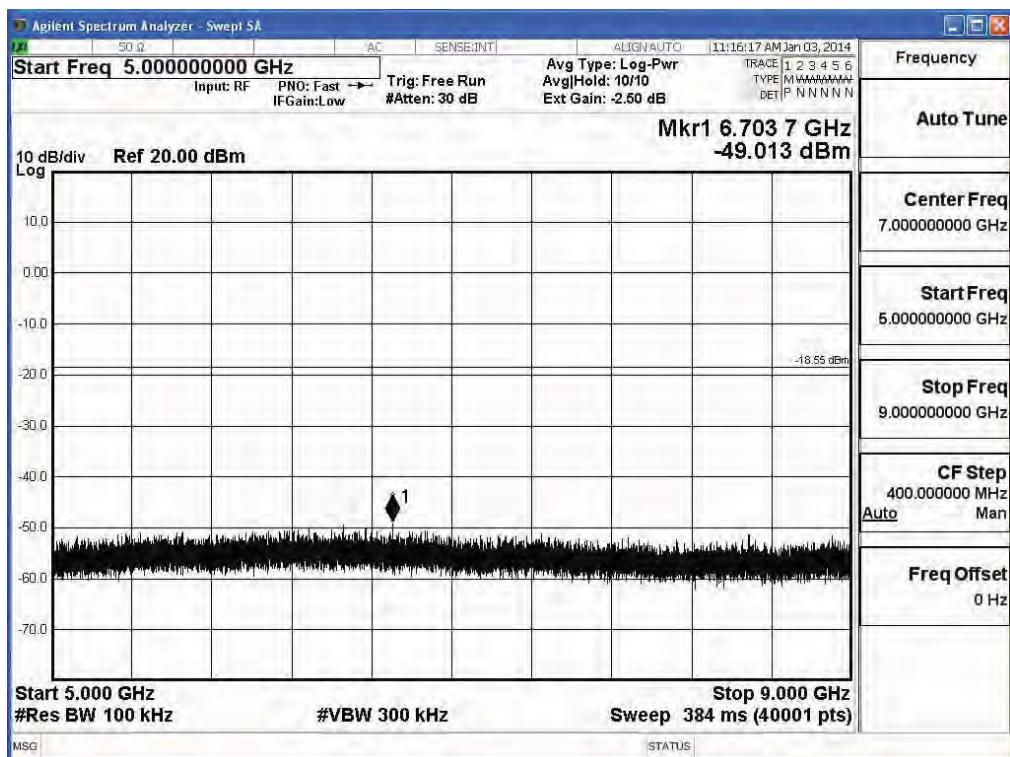
2437MHz (30MHz-1GHz)-802.11b (ANT 1)



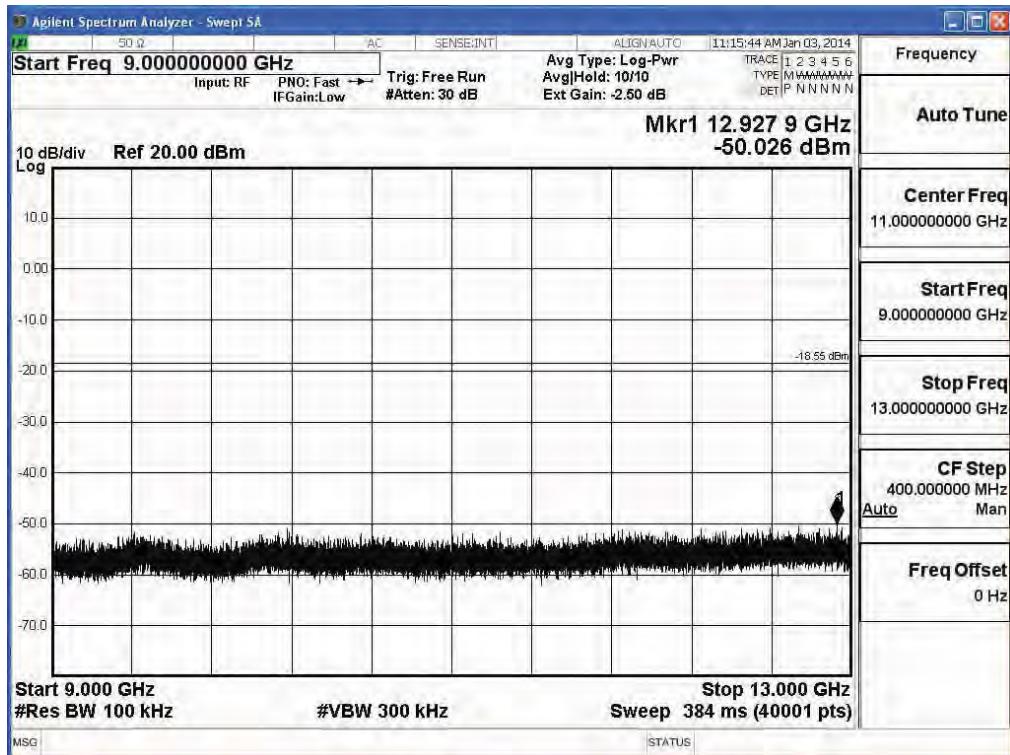
2437MHz (1GHz-5GHz) -802.11b (ANT 1)



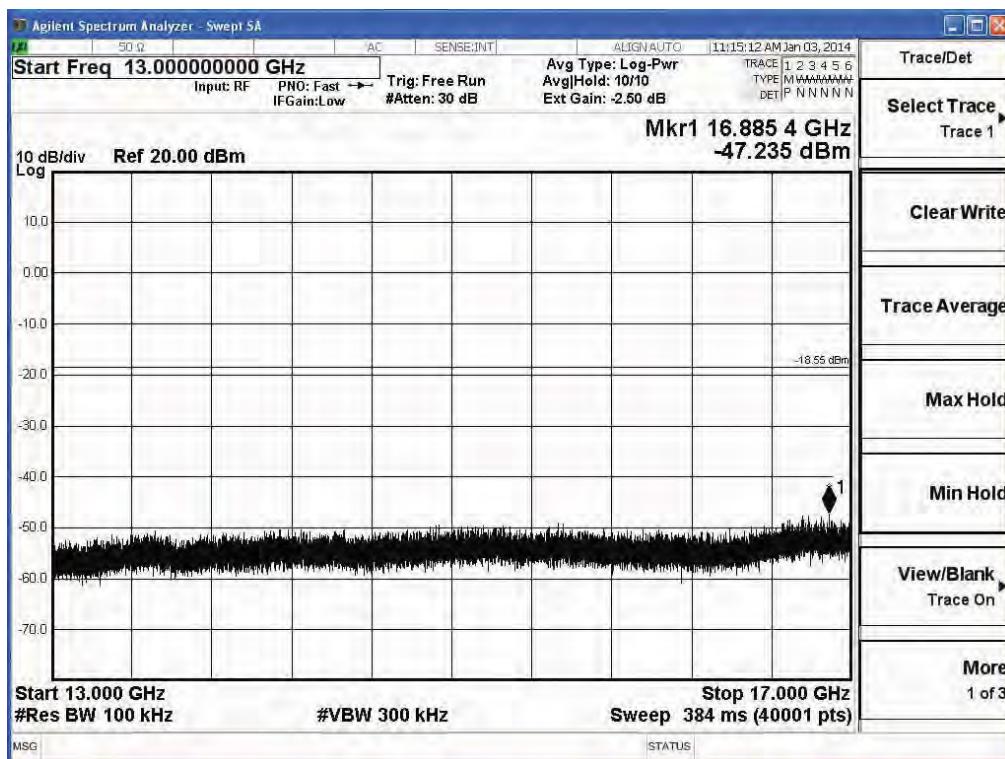
2437MHz (5GHz-9GHz) -802.11b (ANT 1)



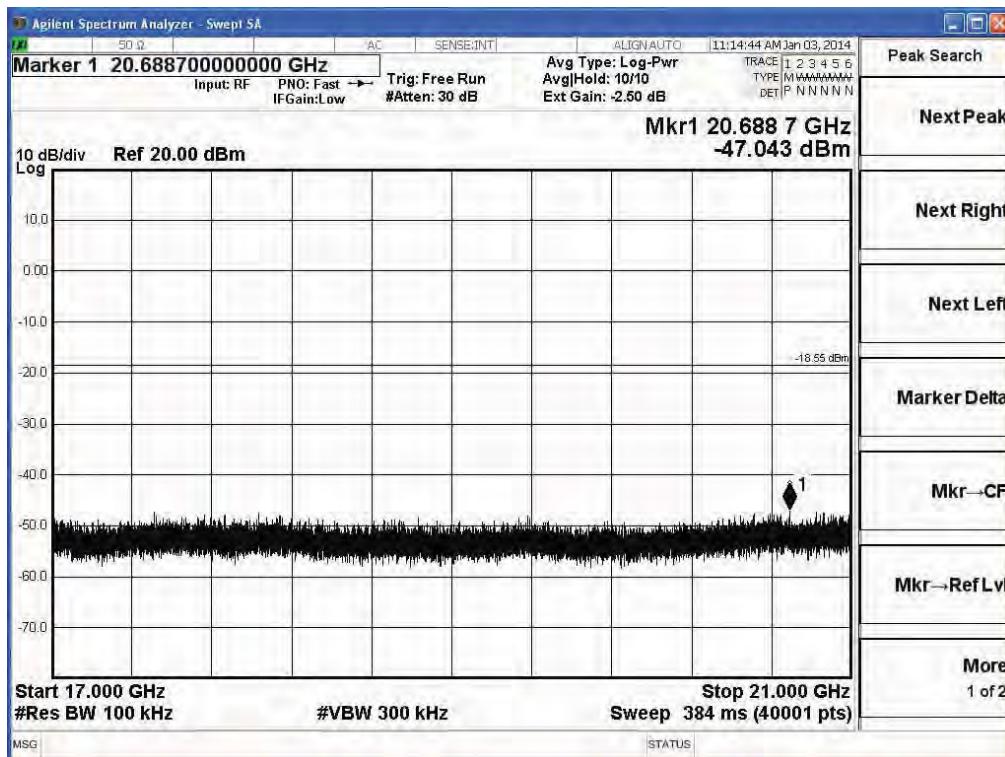
2437MHz (9GHz-13GHz) -802.11b (ANT 1)



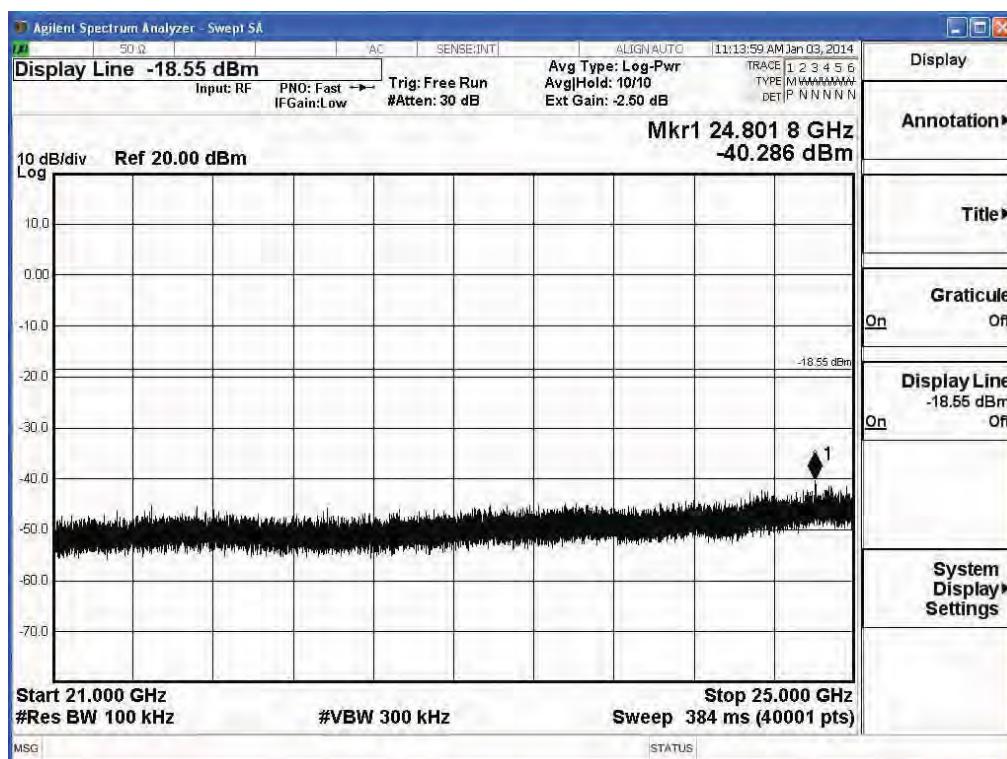
2437MHz (13GHz-17GHz) -802.11b (ANT 1)



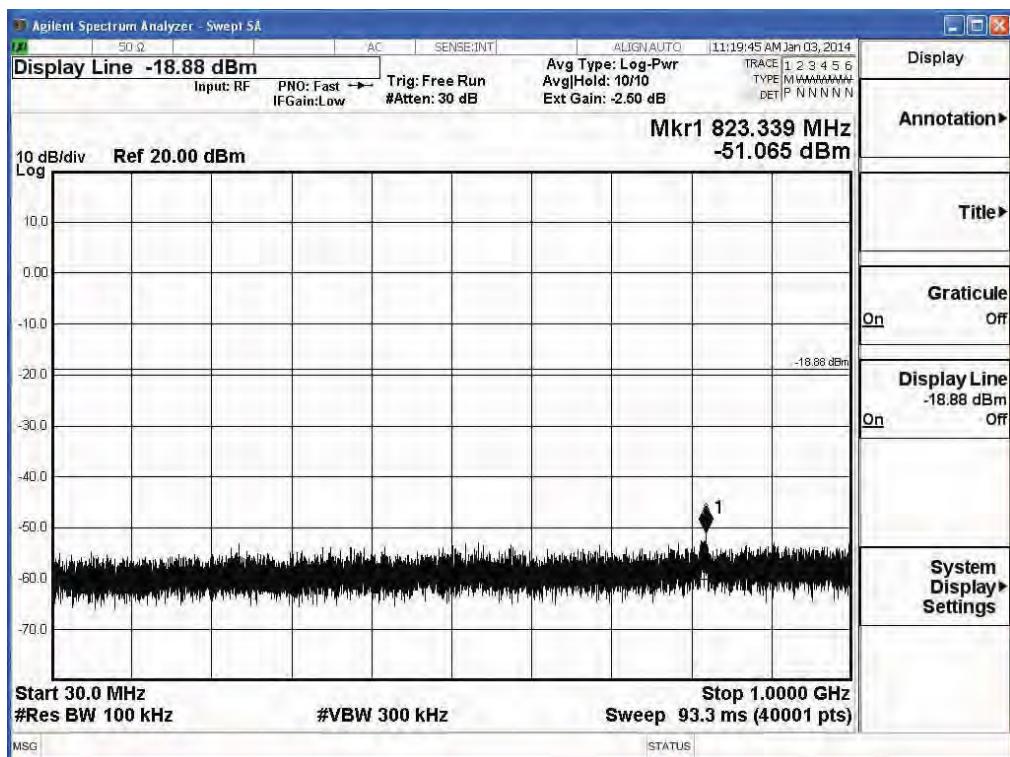
2437MHz (17GHz-21GHz) -802.11b (ANT 1)



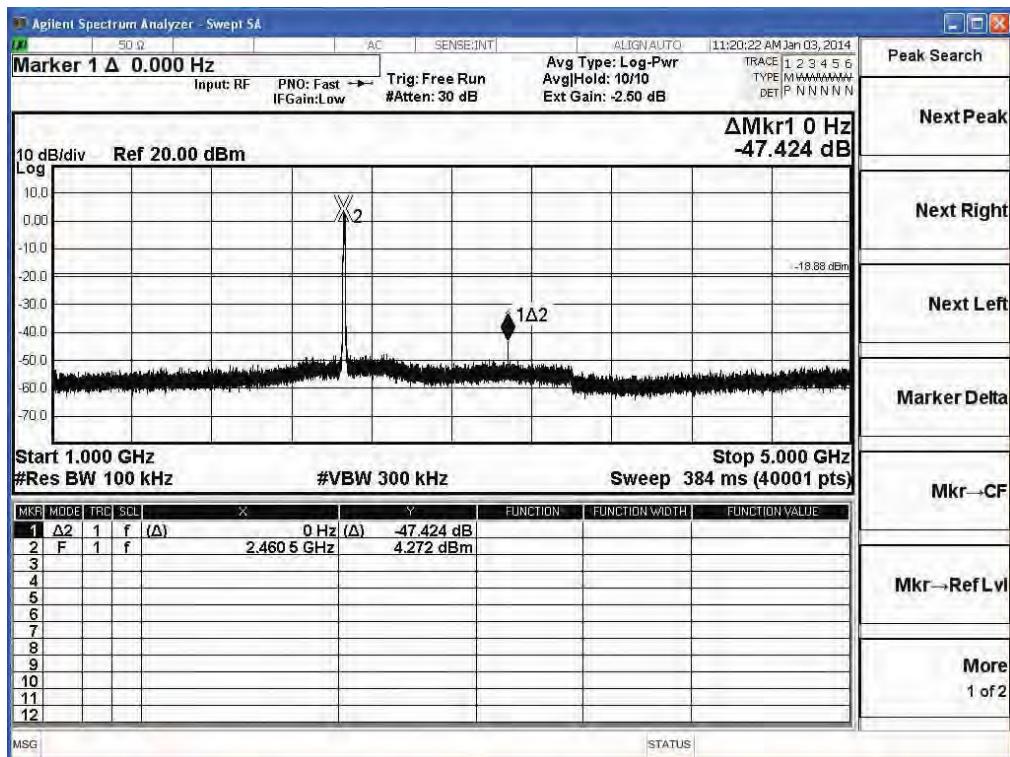
2437MHz (21GHz-25GHz) -802.11b (ANT 1)



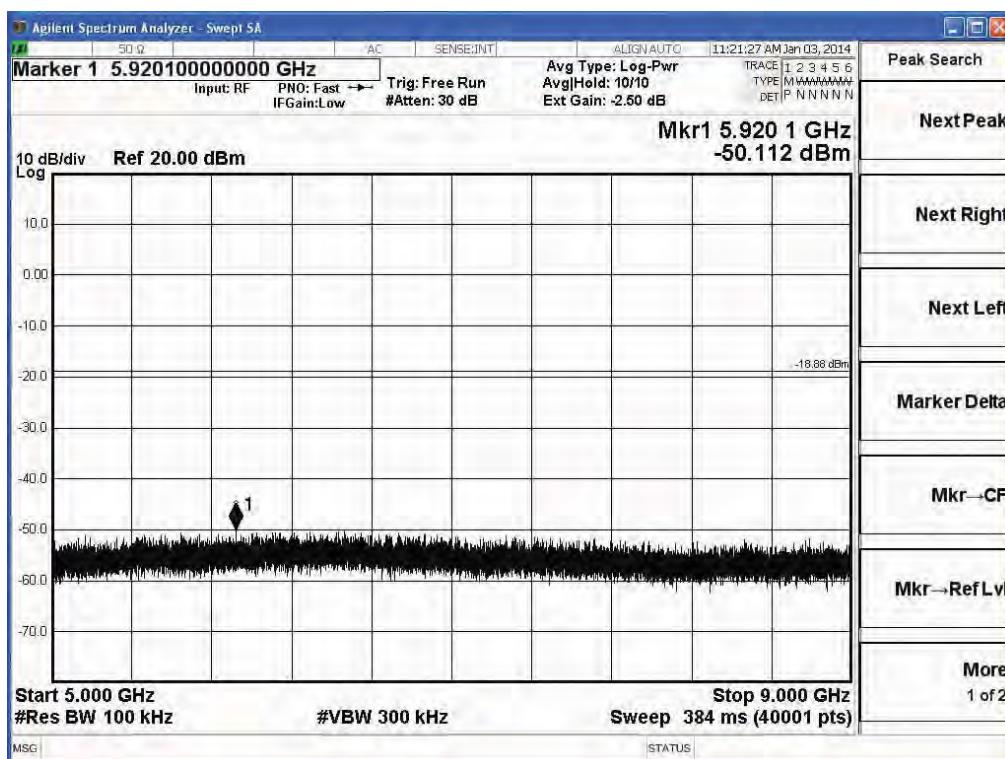
2462MHz (30MHz-1GHz)-802.11b (ANT 1)



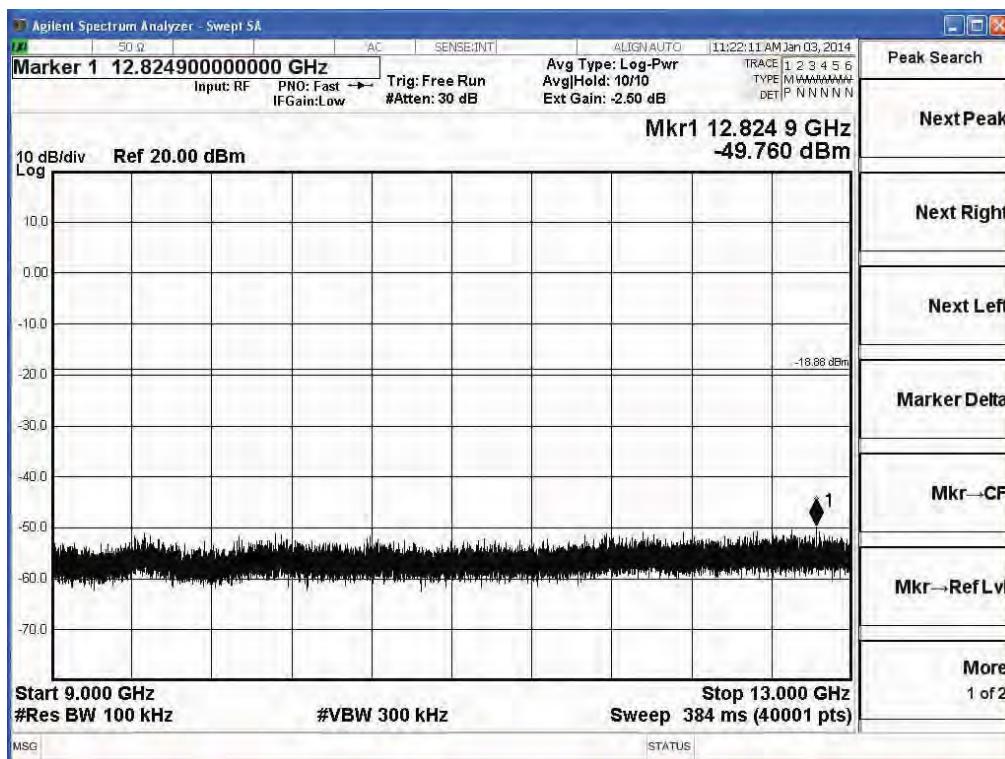
2462MHz (1GHz-5GHz) -802.11b (ANT 1)



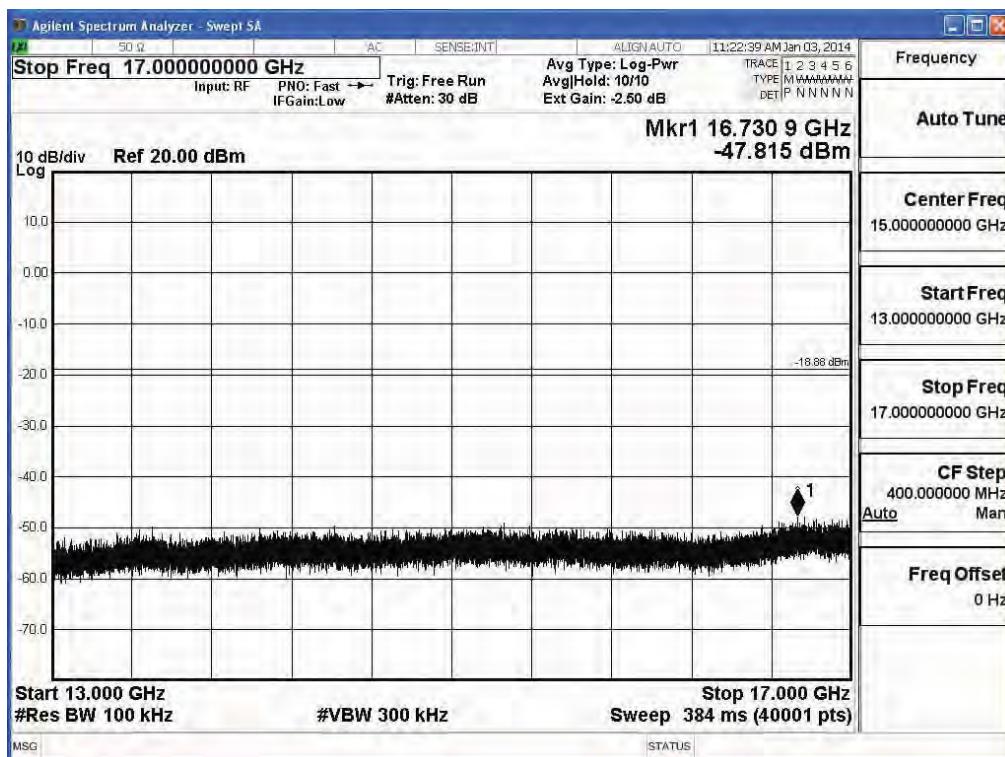
2462MHz (5GHz-9GHz) -802.11b (ANT 1)



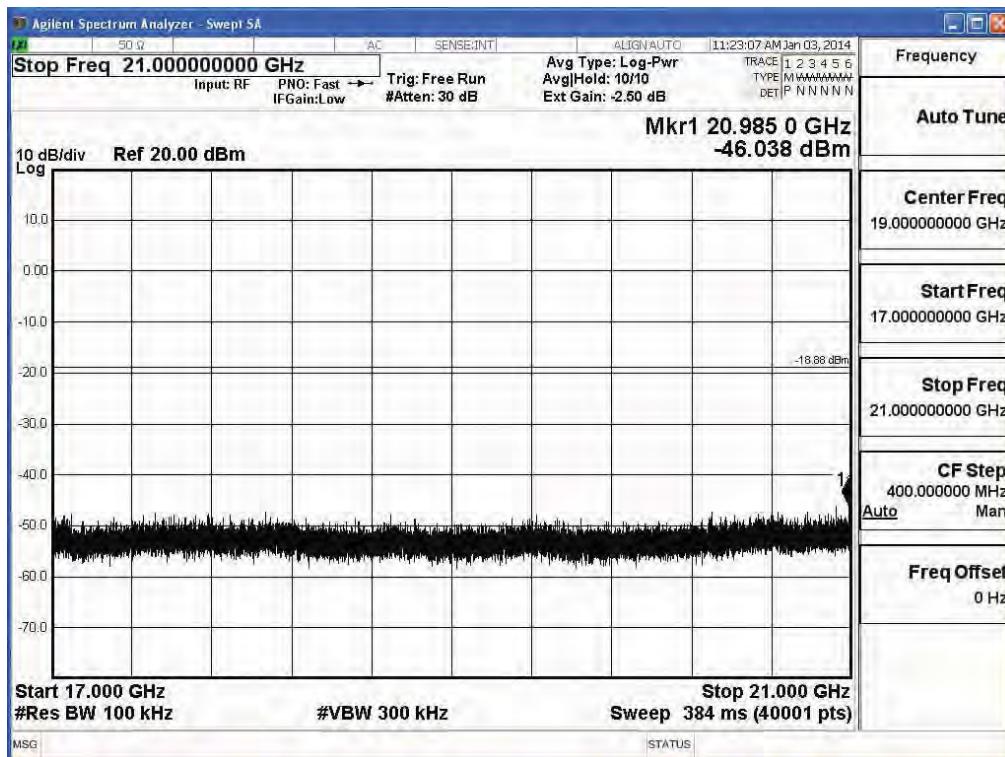
2462MHz (9GHz-13GHz) -802.11b (ANT 1)



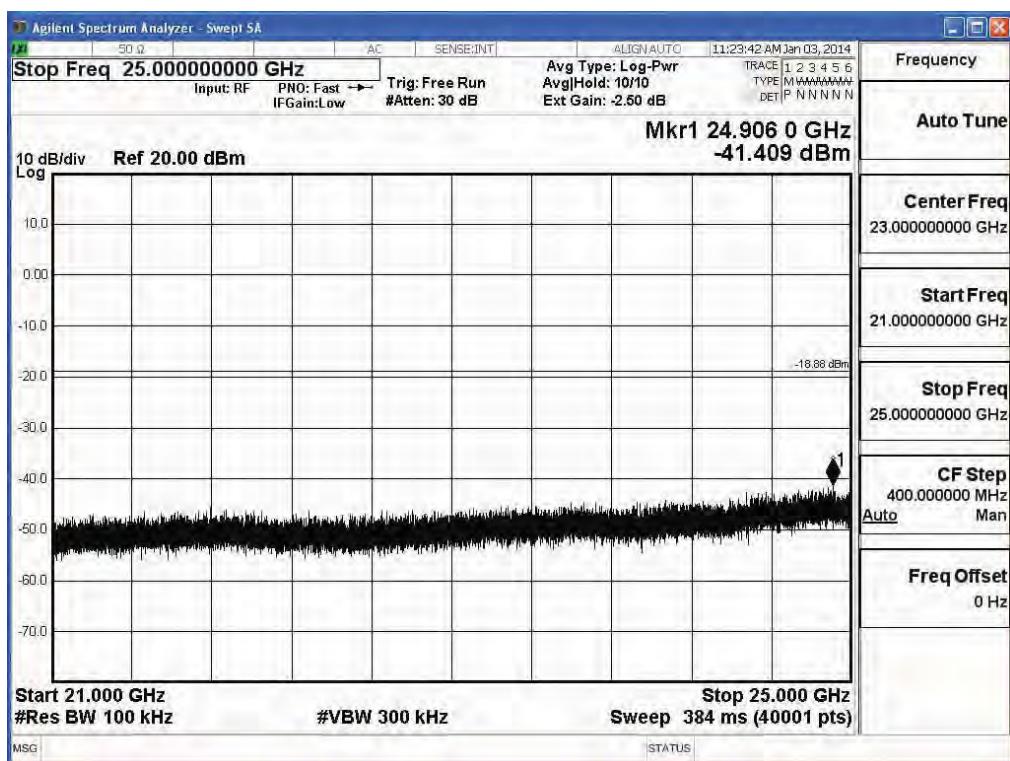
2462MHz (13GHz-17GHz) -802.11b (ANT 1)



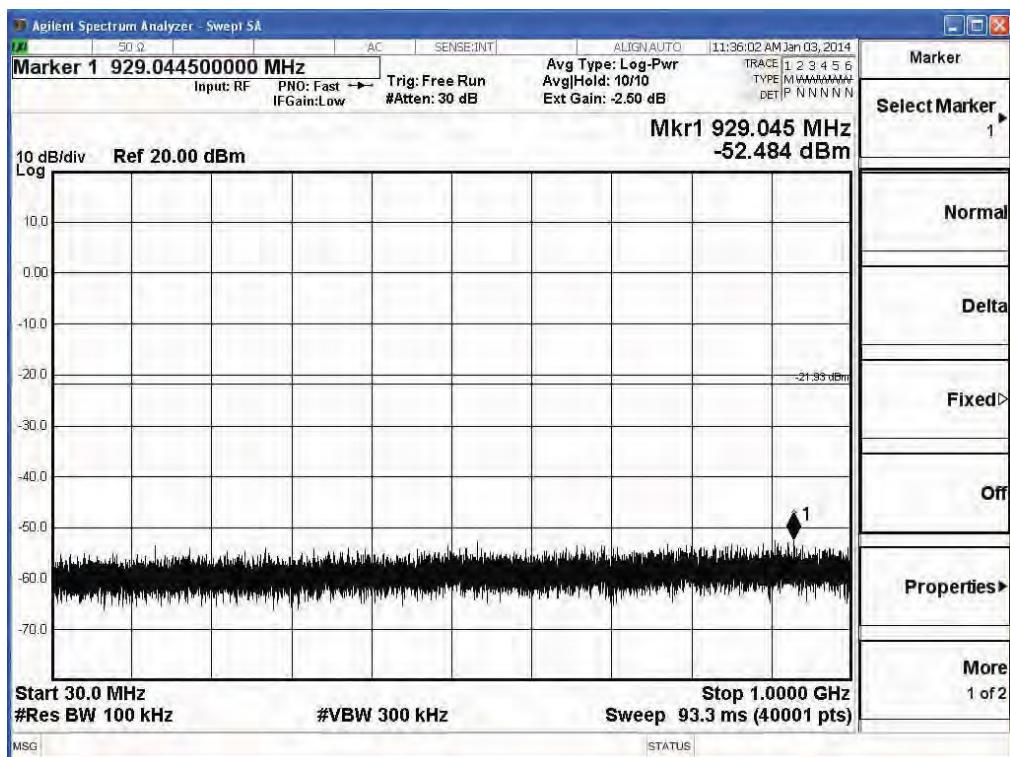
2462MHz (17GHz-21GHz) -802.11b (ANT 1)



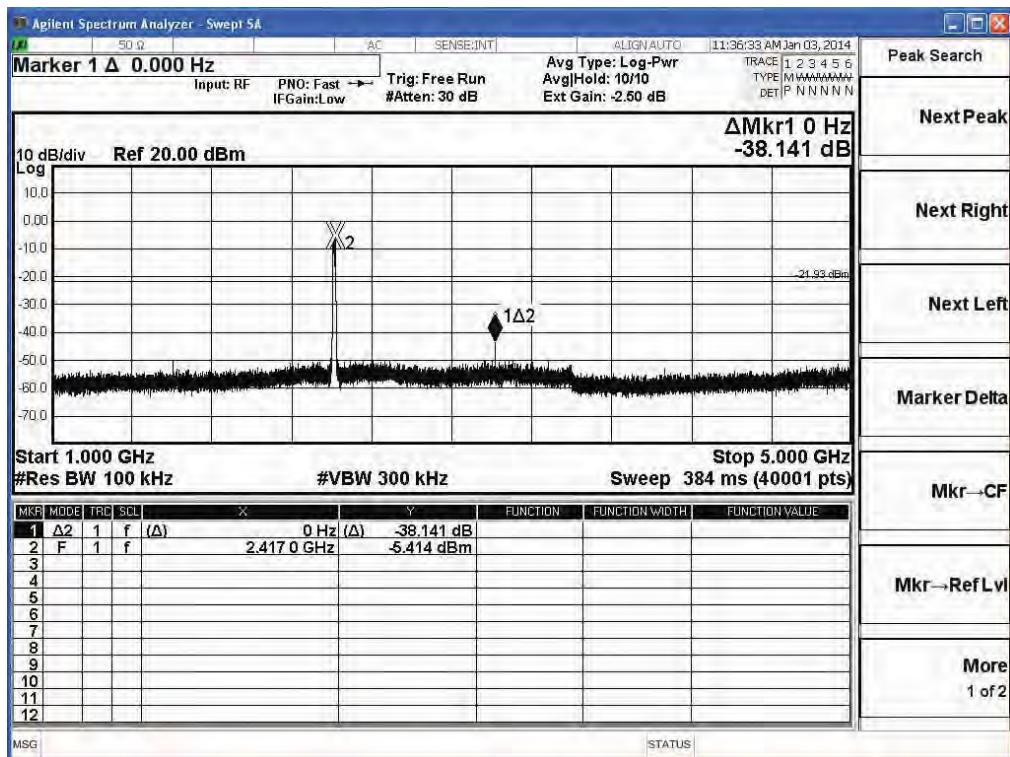
2462MHz (21GHz-25GHz) -802.11b (ANT 1)



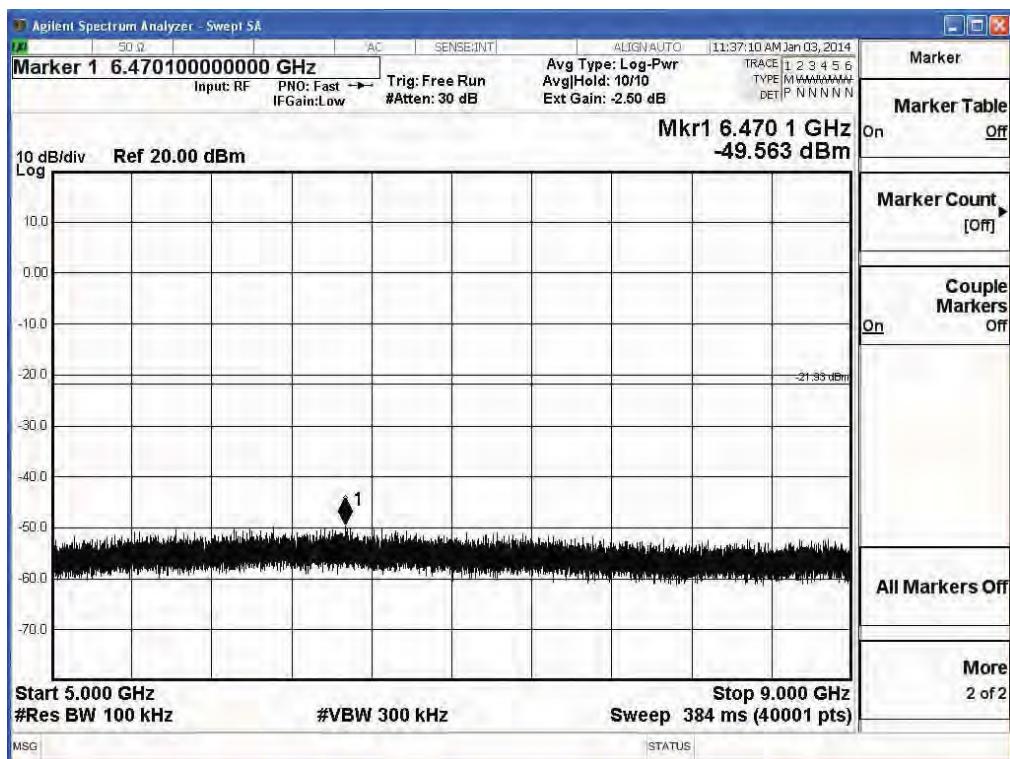
2412MHz (30MHz-1GHz)-802.11g (ANT 0)



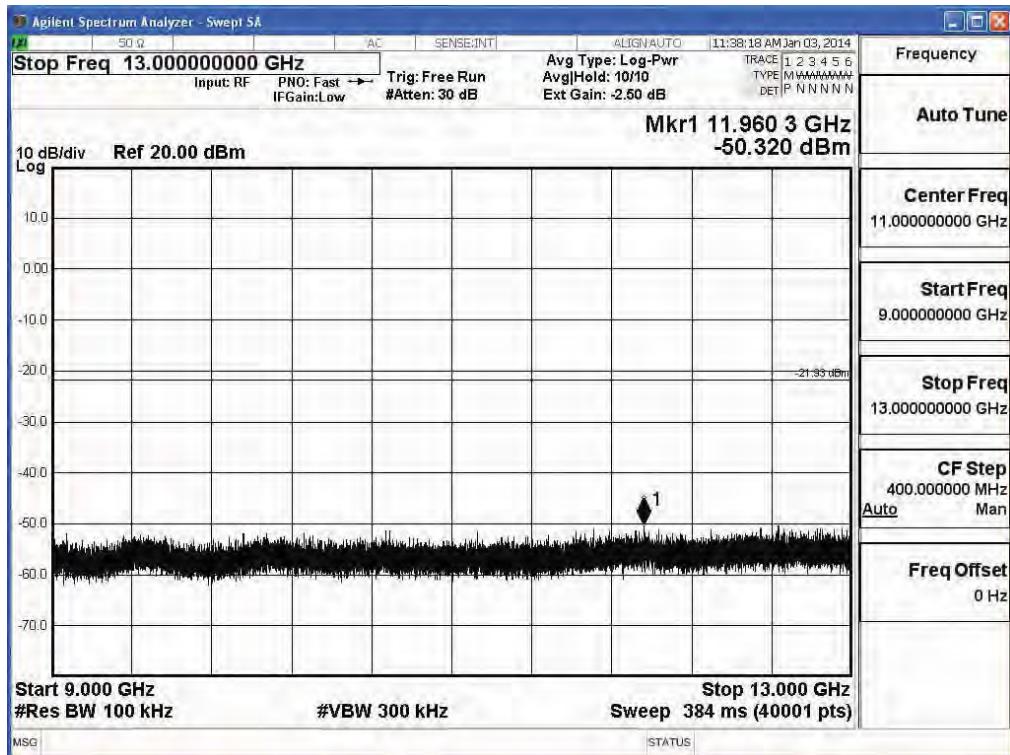
2412MHz (1GHz-5GHz) -802.11g (ANT 0)



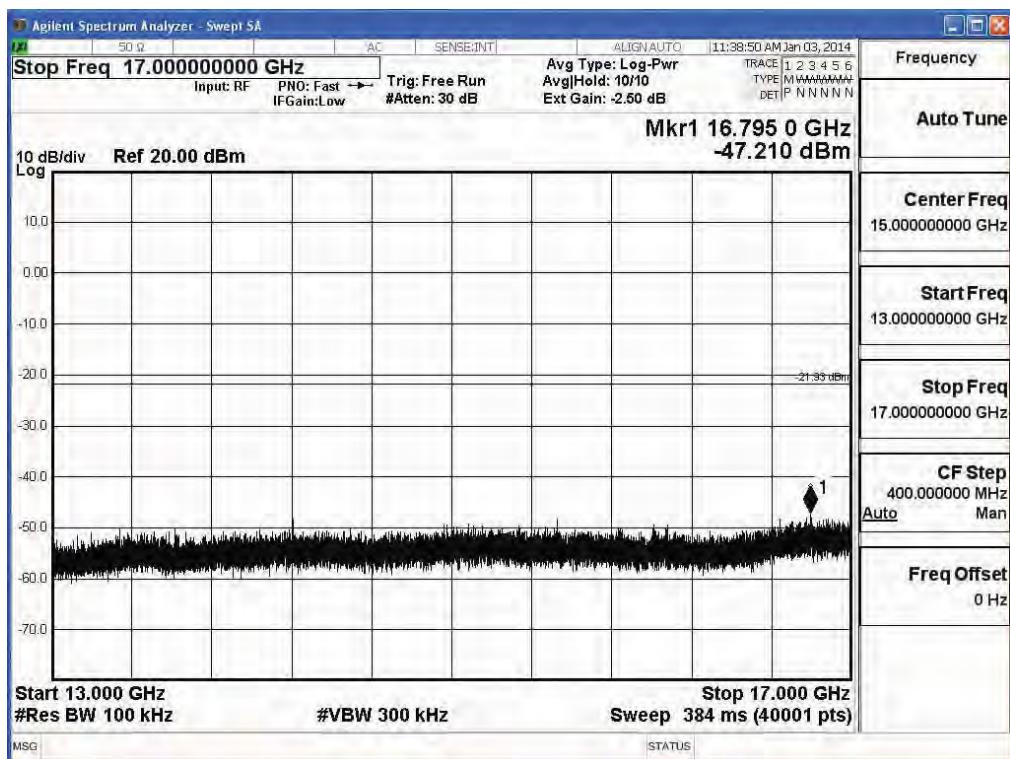
2412MHz (5GHz-9GHz) -802.11g (ANT 0)



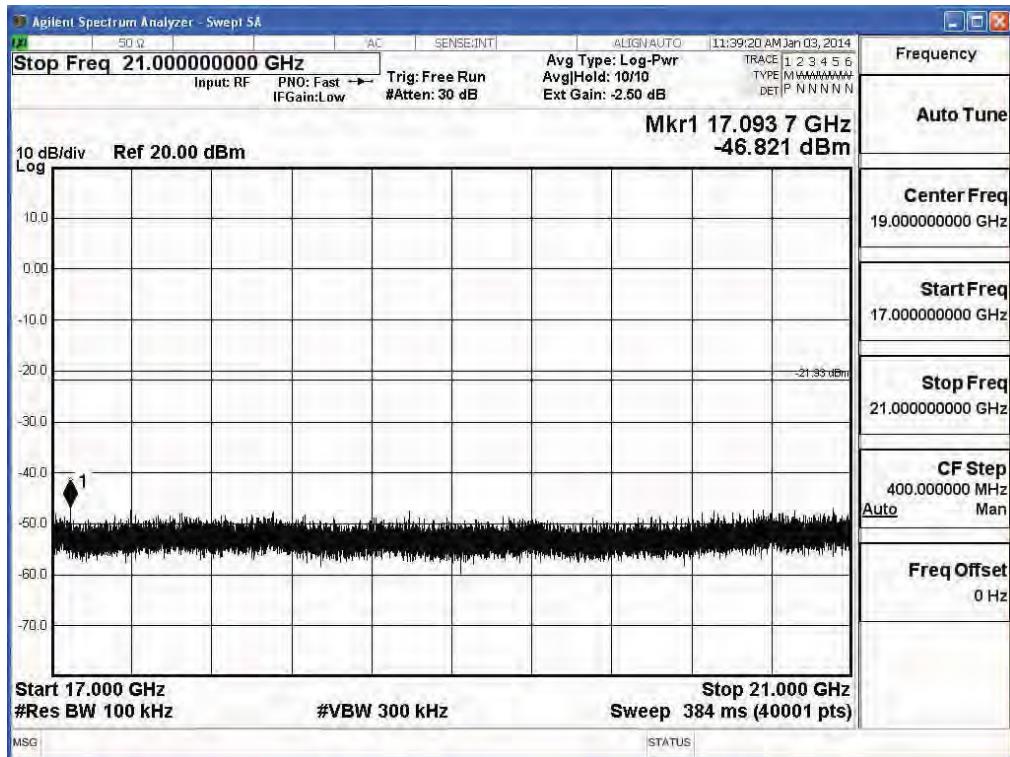
2412MHz (9GHz-13GHz) -802.11g (ANT 0)



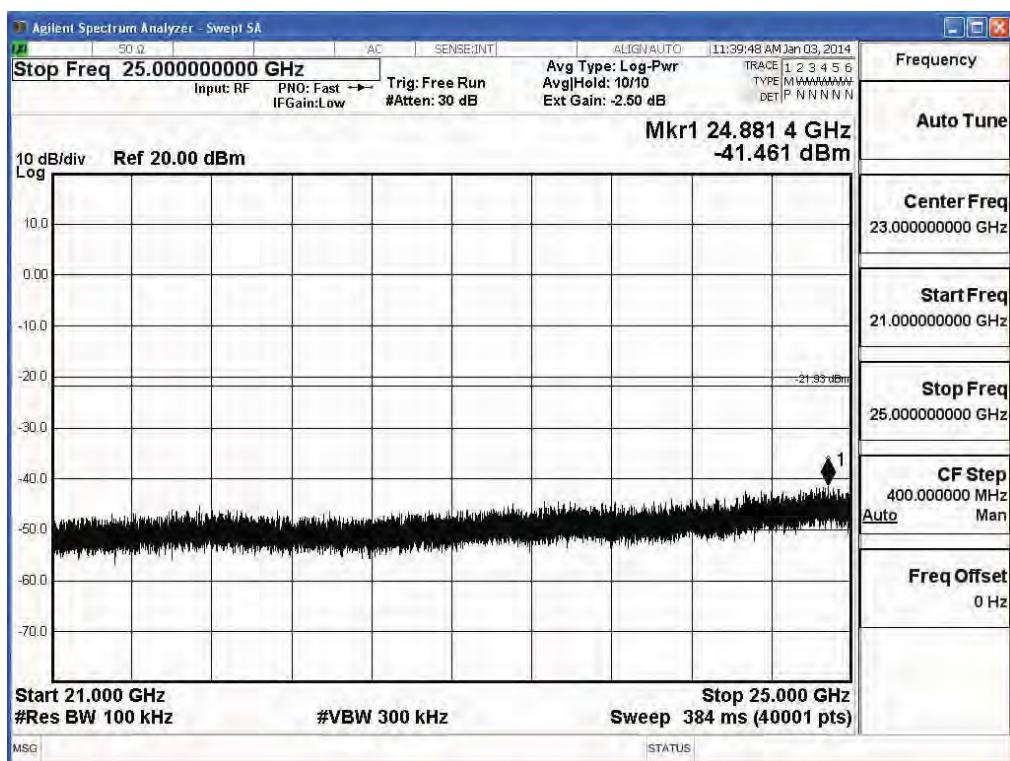
2412MHz (13GHz-17GHz) -802.11g (ANT 0)



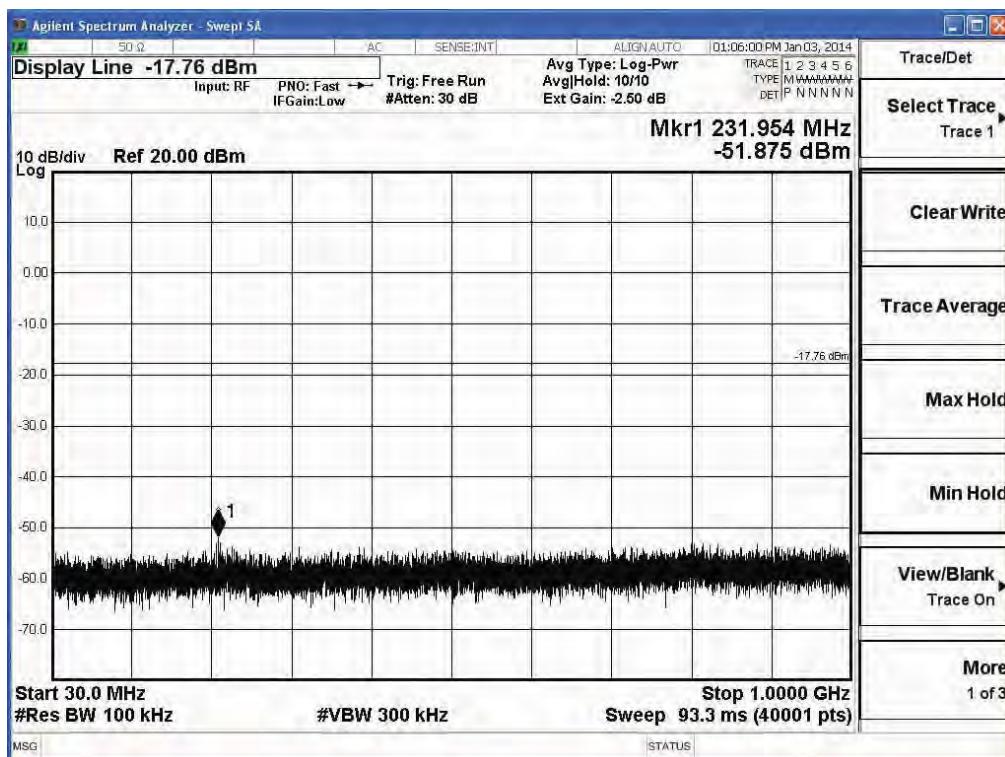
2412MHz (17GHz-21GHz) -802.11g (ANT 0)



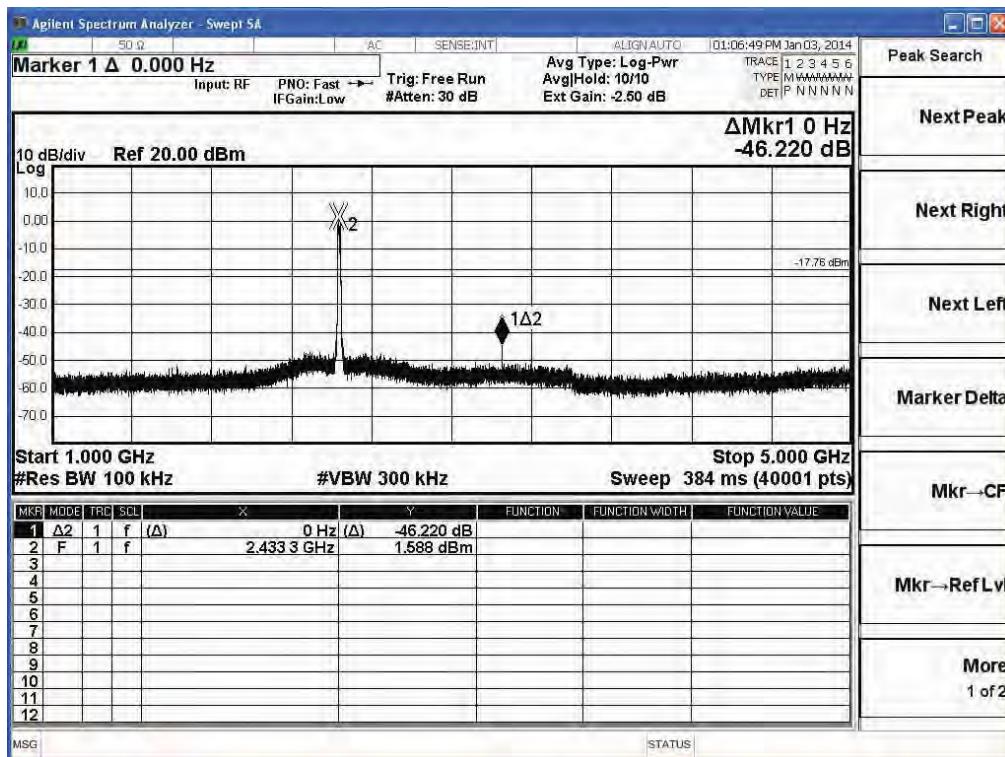
2412MHz (21GHz-25GHz) -802.11g (ANT 0)



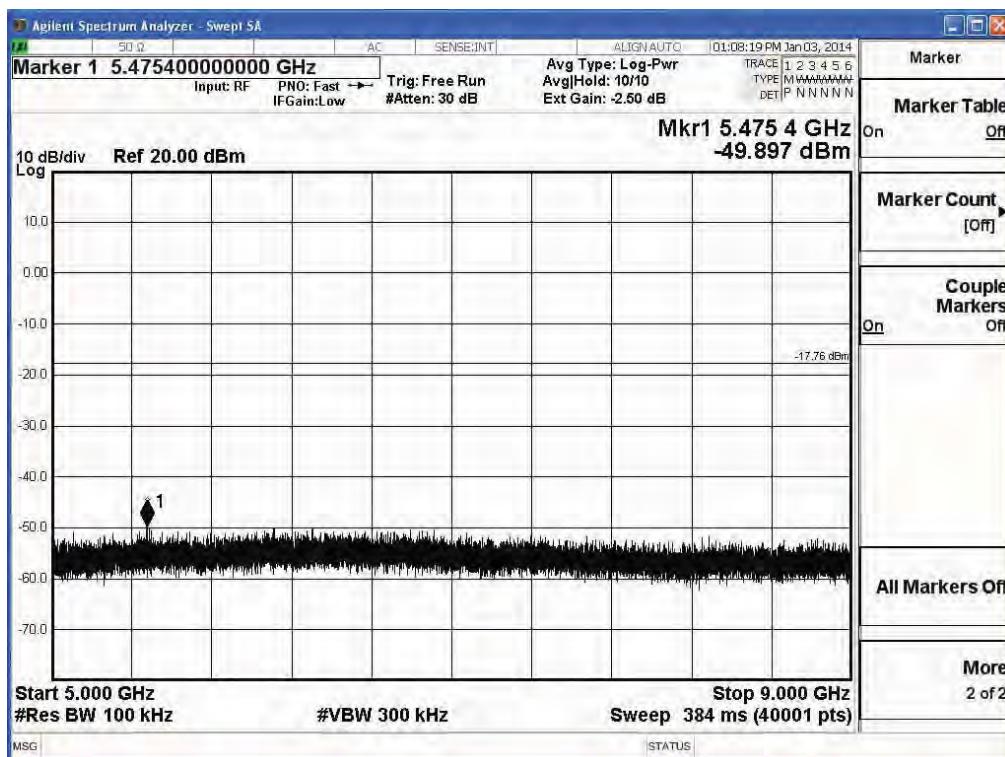
2437MHz (30MHz-1GHz)-802.11g (ANT 0)



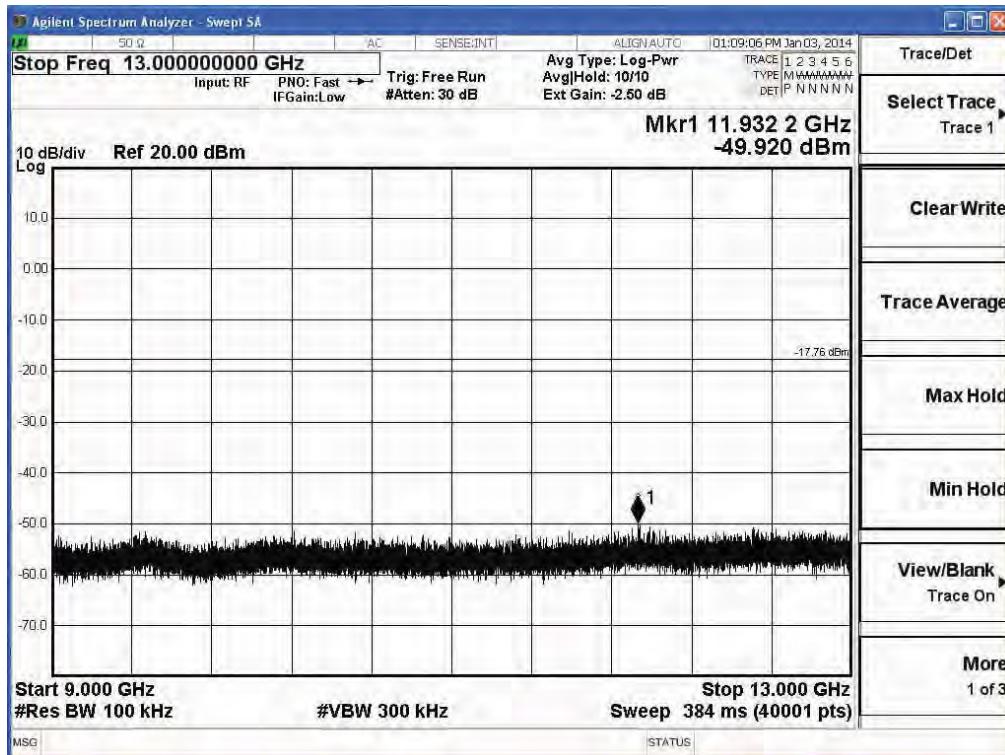
2437MHz (1GHz-5GHz) -802.11g (ANT 0)



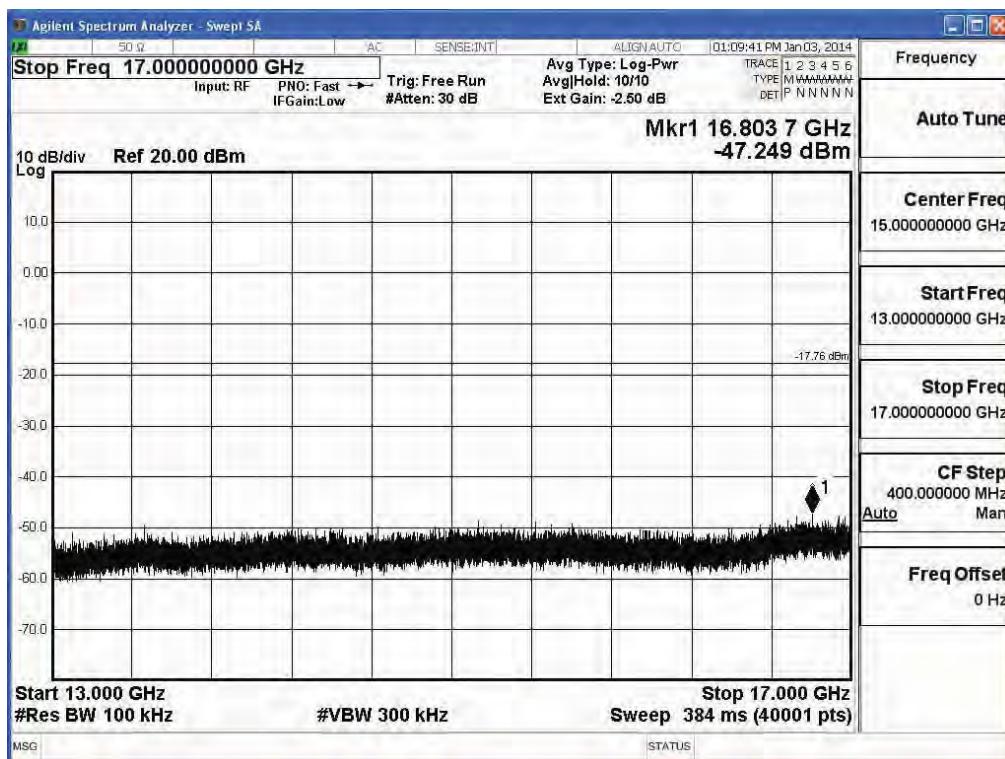
2437MHz (5GHz-9GHz) -802.11g (ANT 0)



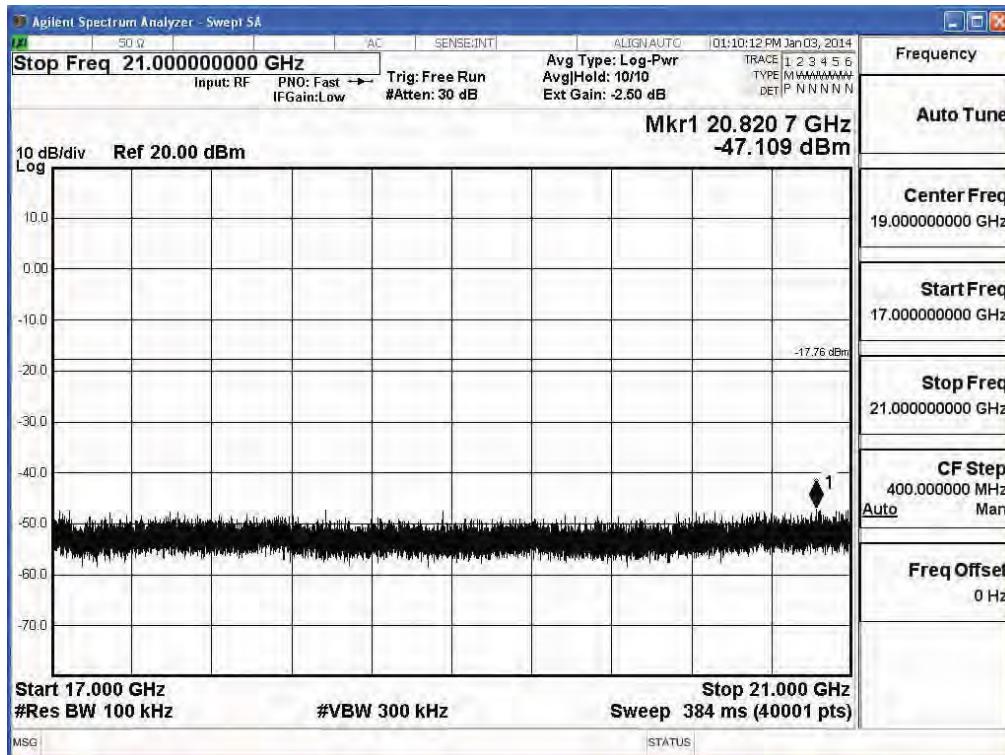
2437MHz (9GHz-13GHz) -802.11g (ANT 0)



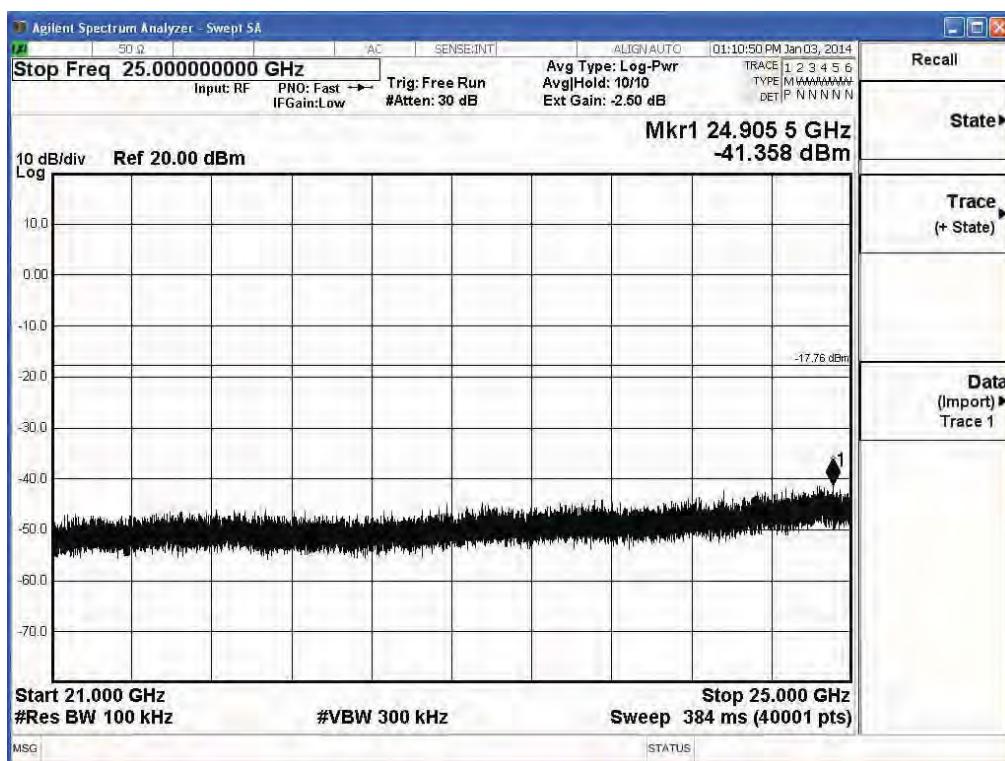
2437MHz (13GHz-17GHz) -802.11g (ANT 0)



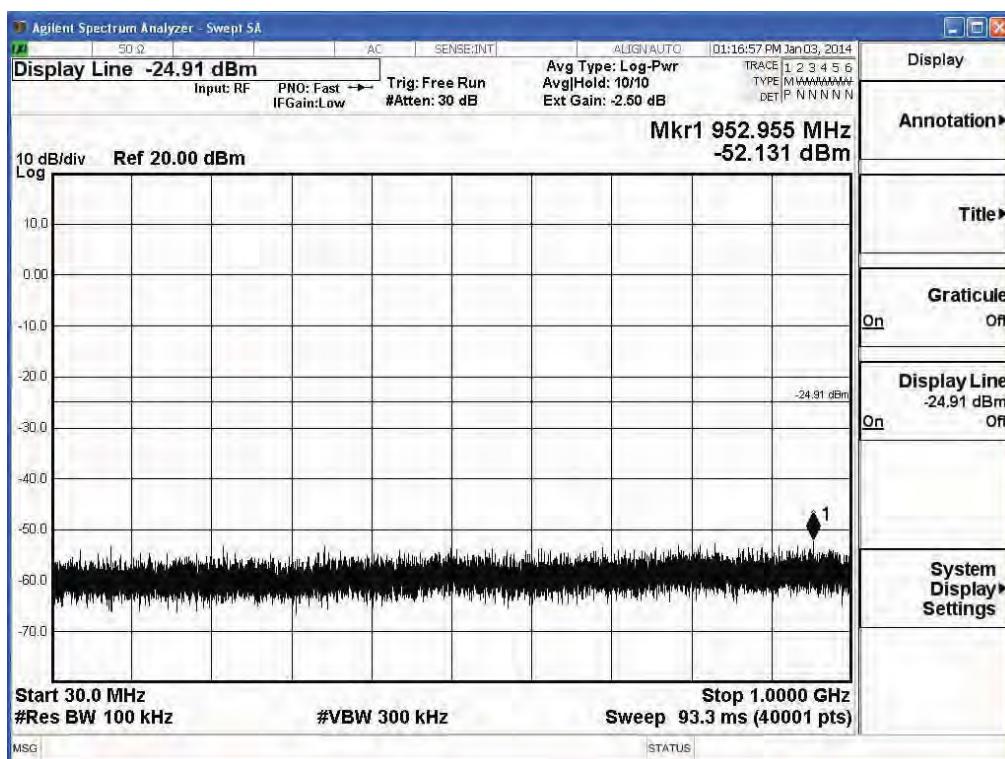
2437MHz (17GHz-21GHz) -802.11g (ANT 0)



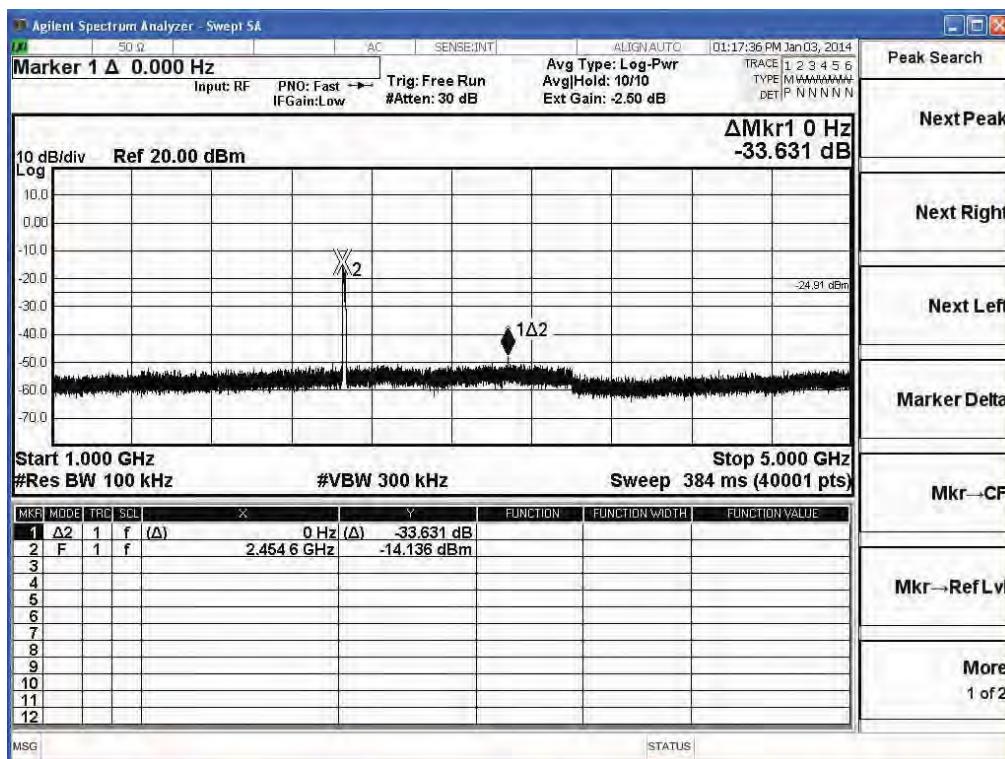
2437MHz (21GHz-25GHz) -802.11g (ANT 0)



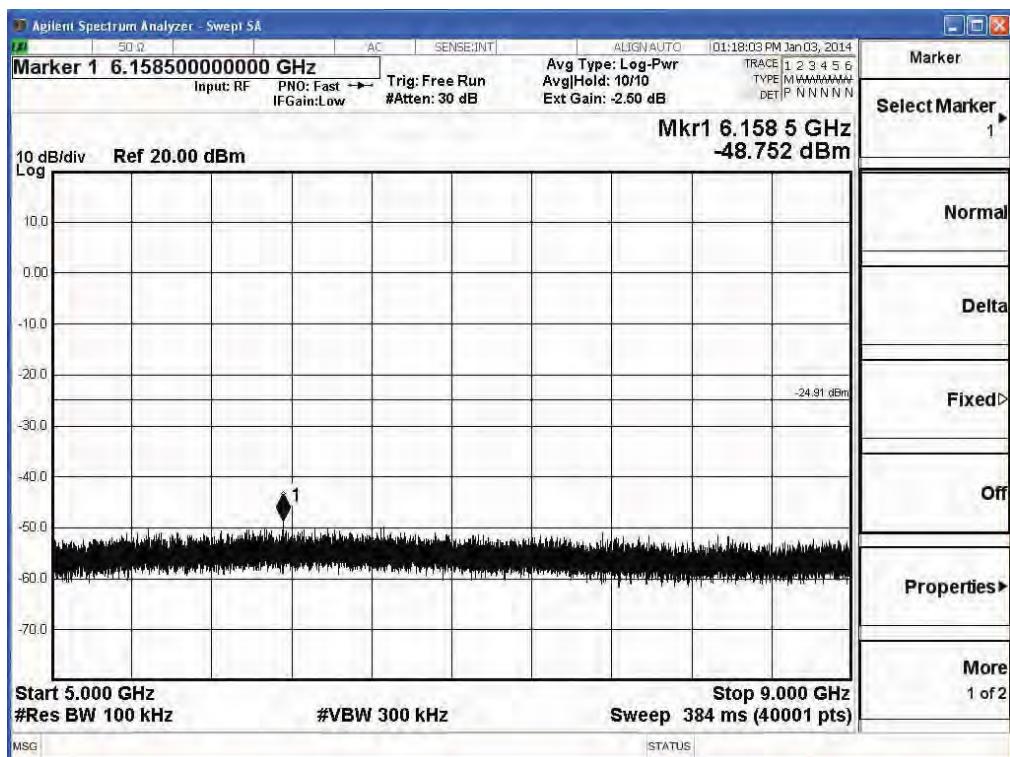
2462MHz (30MHz-1GHz)-802.11g (ANT 0)



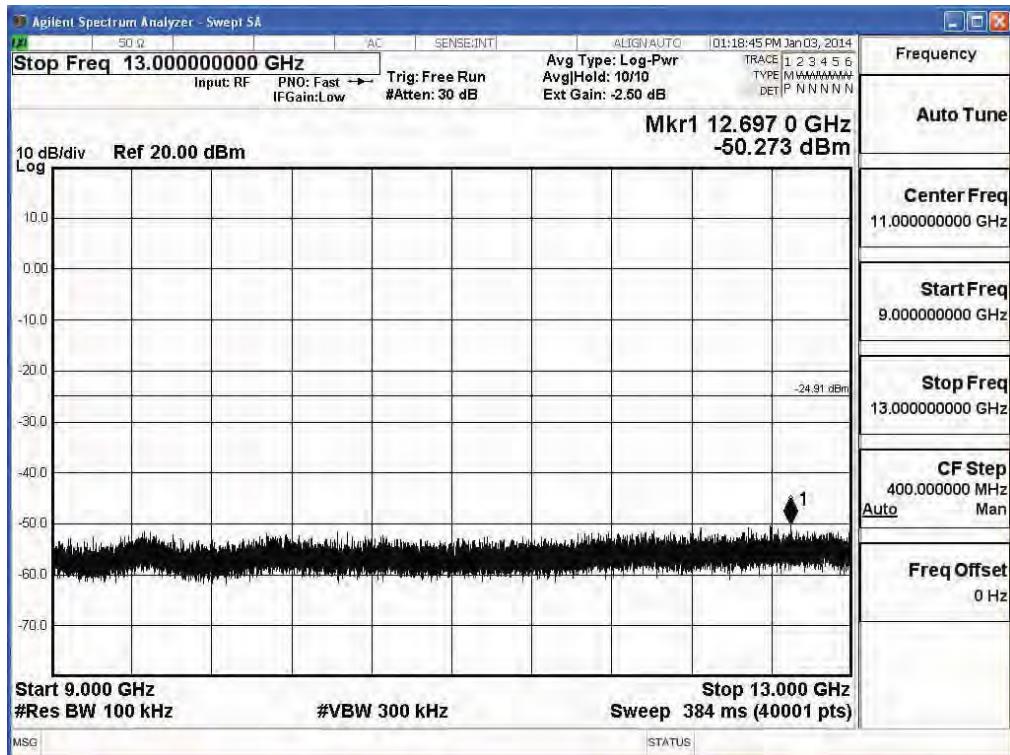
2462MHz (1GHz-5GHz) -802.11g (ANT 0)



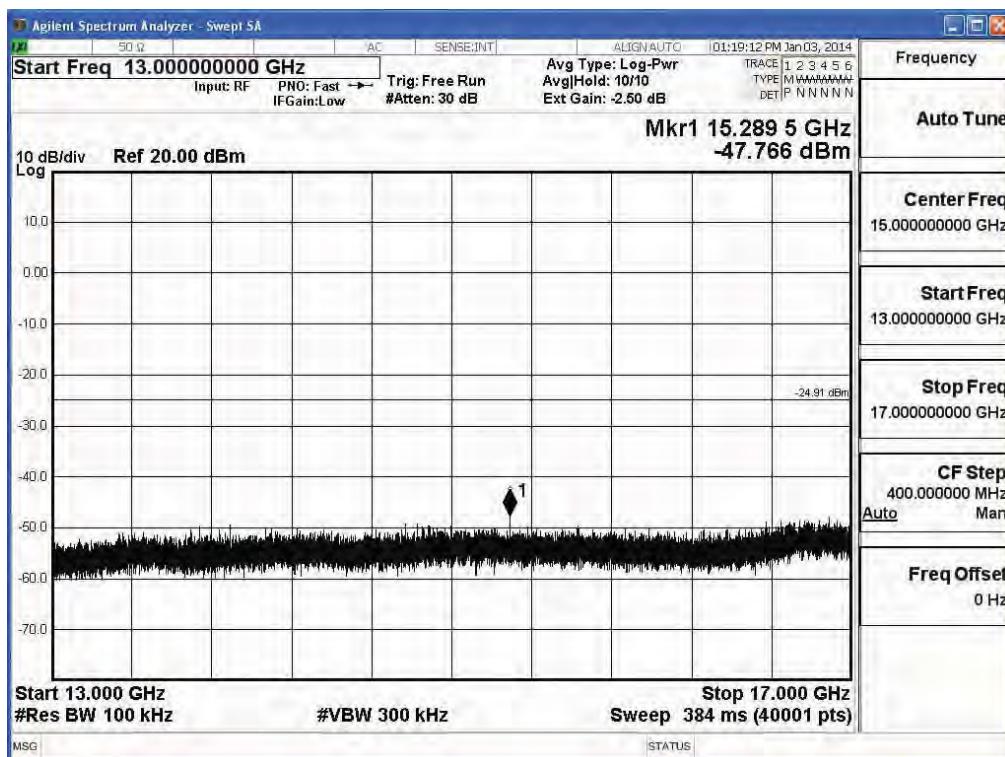
2462MHz (5GHz-9GHz) -802.11g (ANT 0)



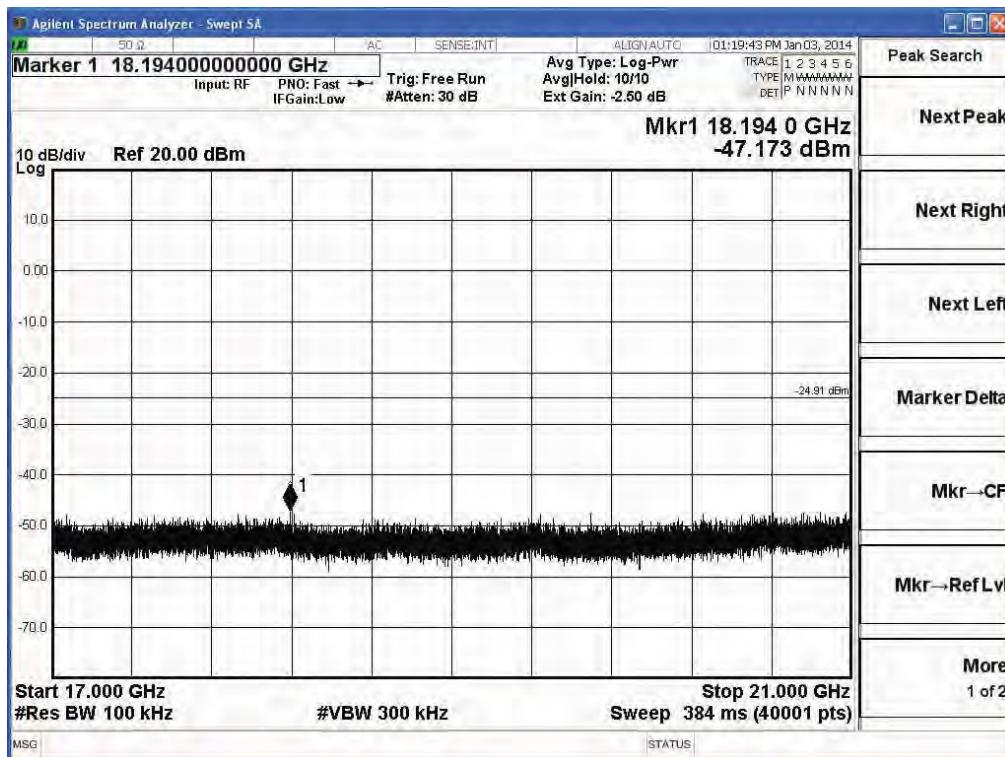
2462MHz (9GHz-13GHz) -802.11g (ANT 0)



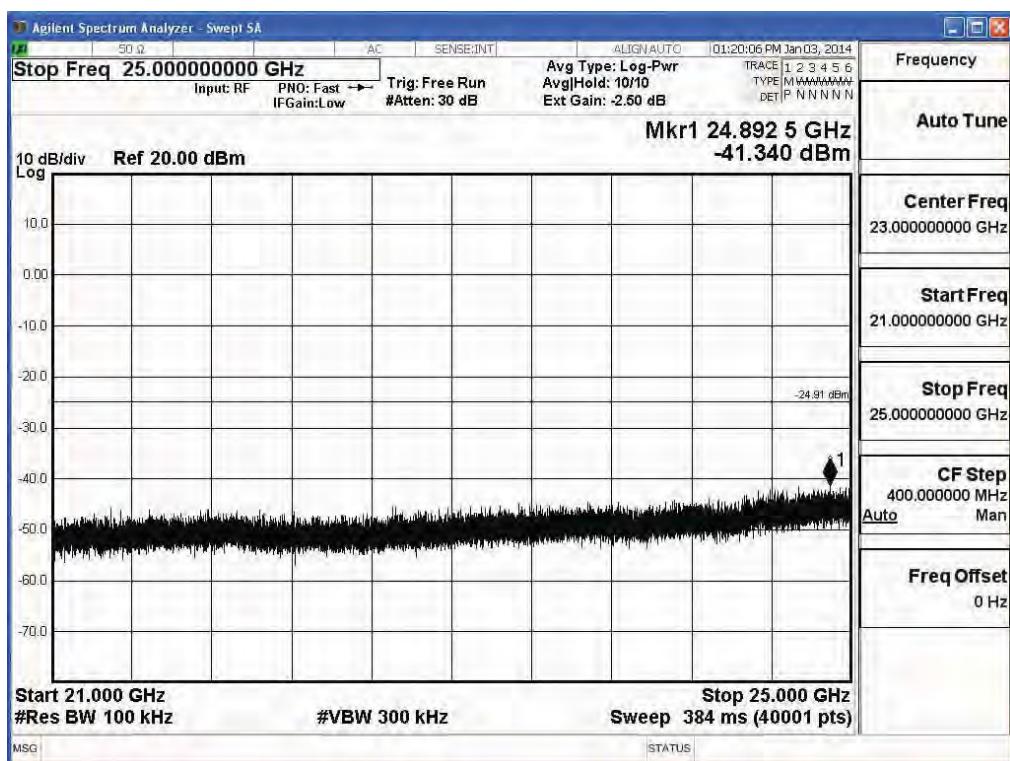
2462MHz (13GHz-17GHz) -802.11g (ANT 0)



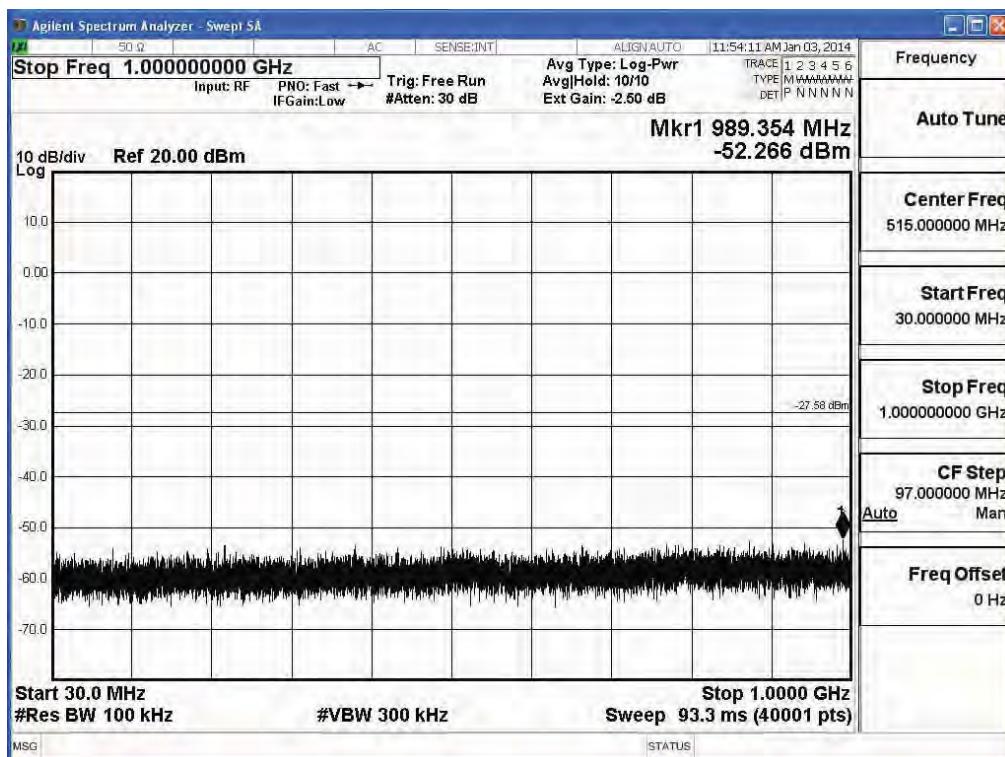
2462MHz (17GHz-21GHz) -802.11g (ANT 0)



2462MHz (21GHz-25GHz) -802.11g (ANT 0)



2412MHz (30MHz-1GHz)-802.11g (ANT 1)



2412MHz (1GHz-5GHz) -802.11g (ANT 1)

