

**5. RF antenna conducted test**

**5.1. Test Equipment**

The following test equipments are used during the test:

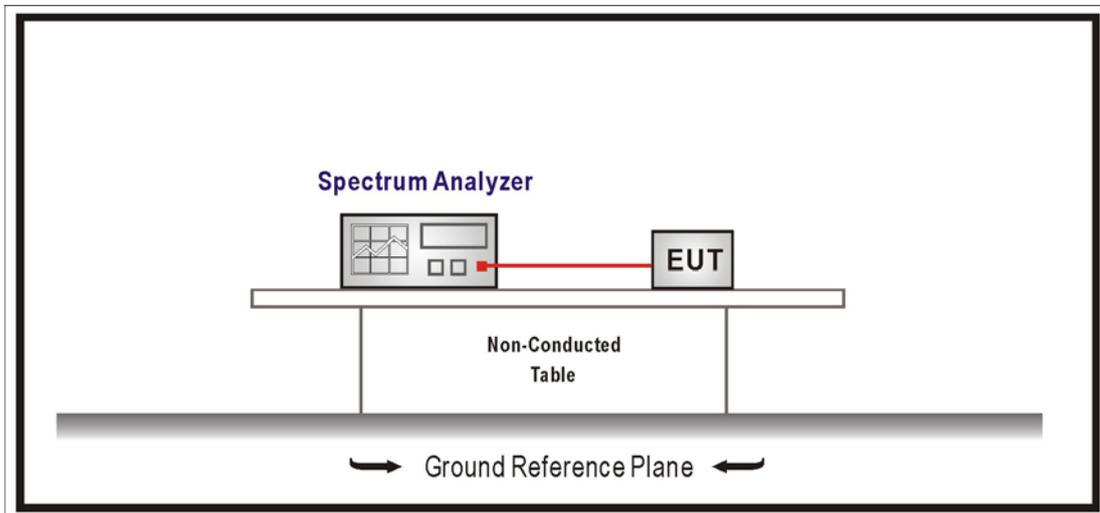
**RF antenna conducted test / SR7**

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

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 Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

**5.5. Test Specification**

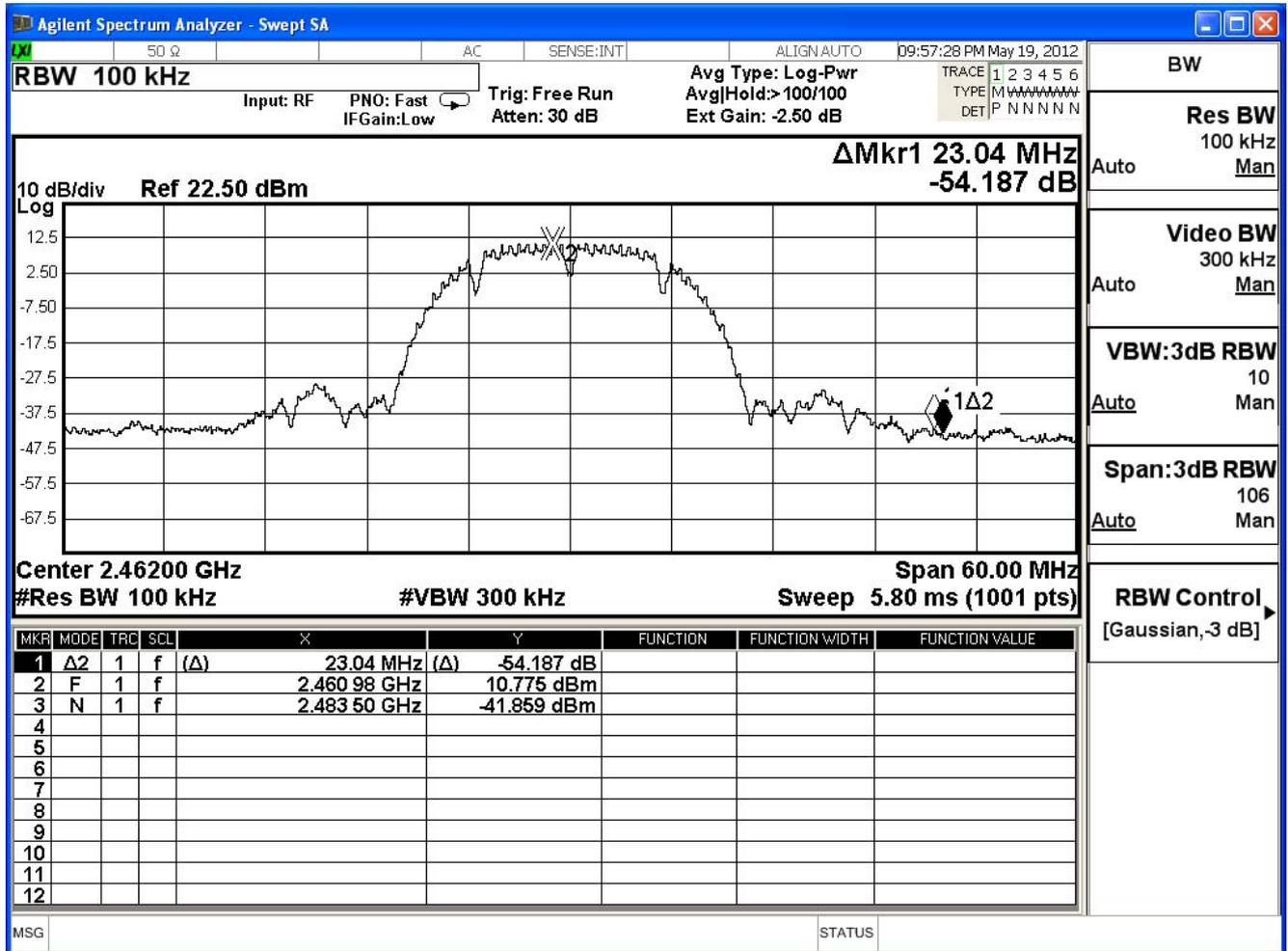
According to FCC Part 15 Subpart C Paragraph 15.247: 2011

**5.6. Uncertainty**

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



Channel 11 (2462MHz)

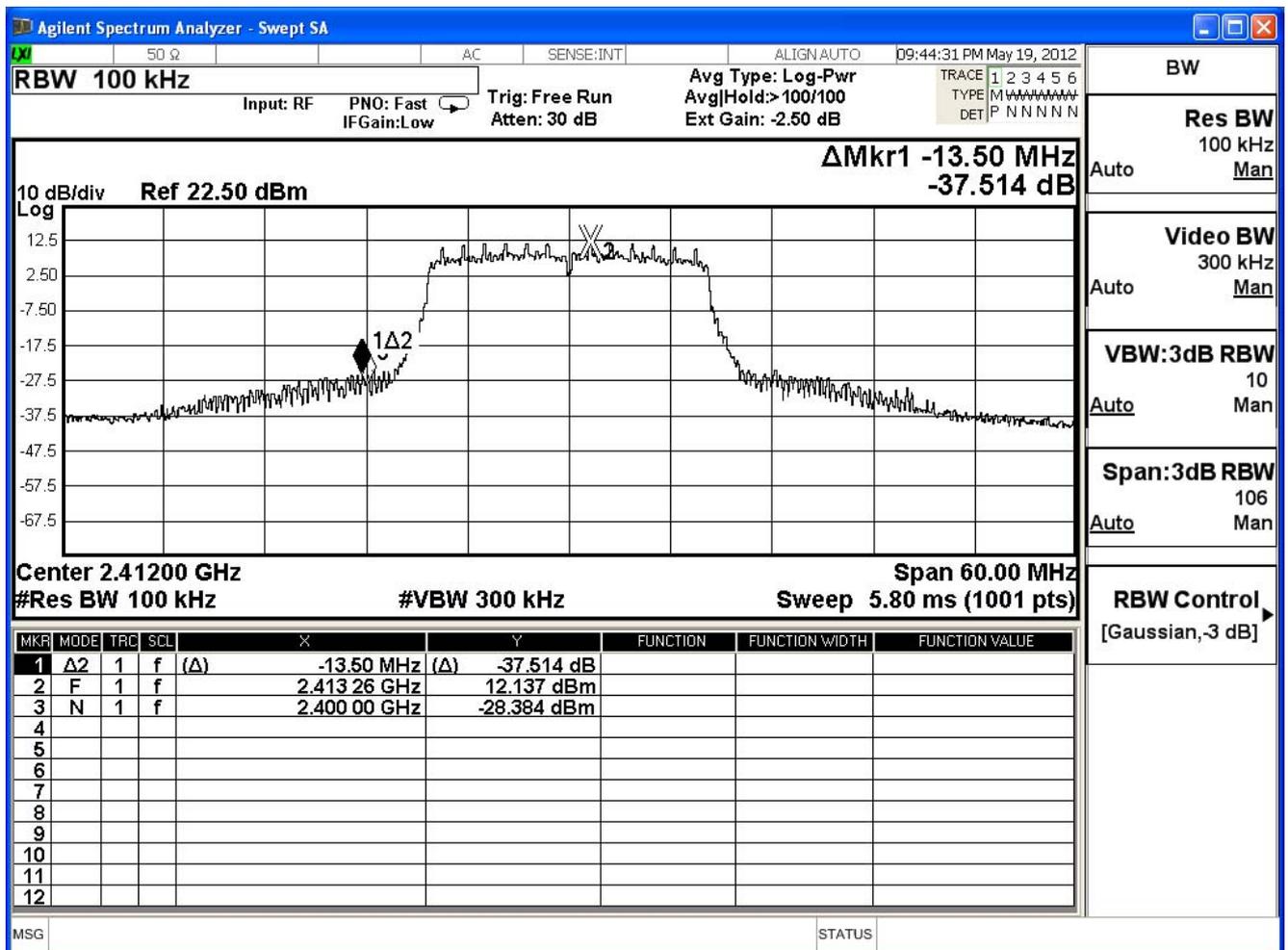


Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

IEEE 802.11g, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	37.514	≥20	Pass
11	2462	48.379	≥20	Pass

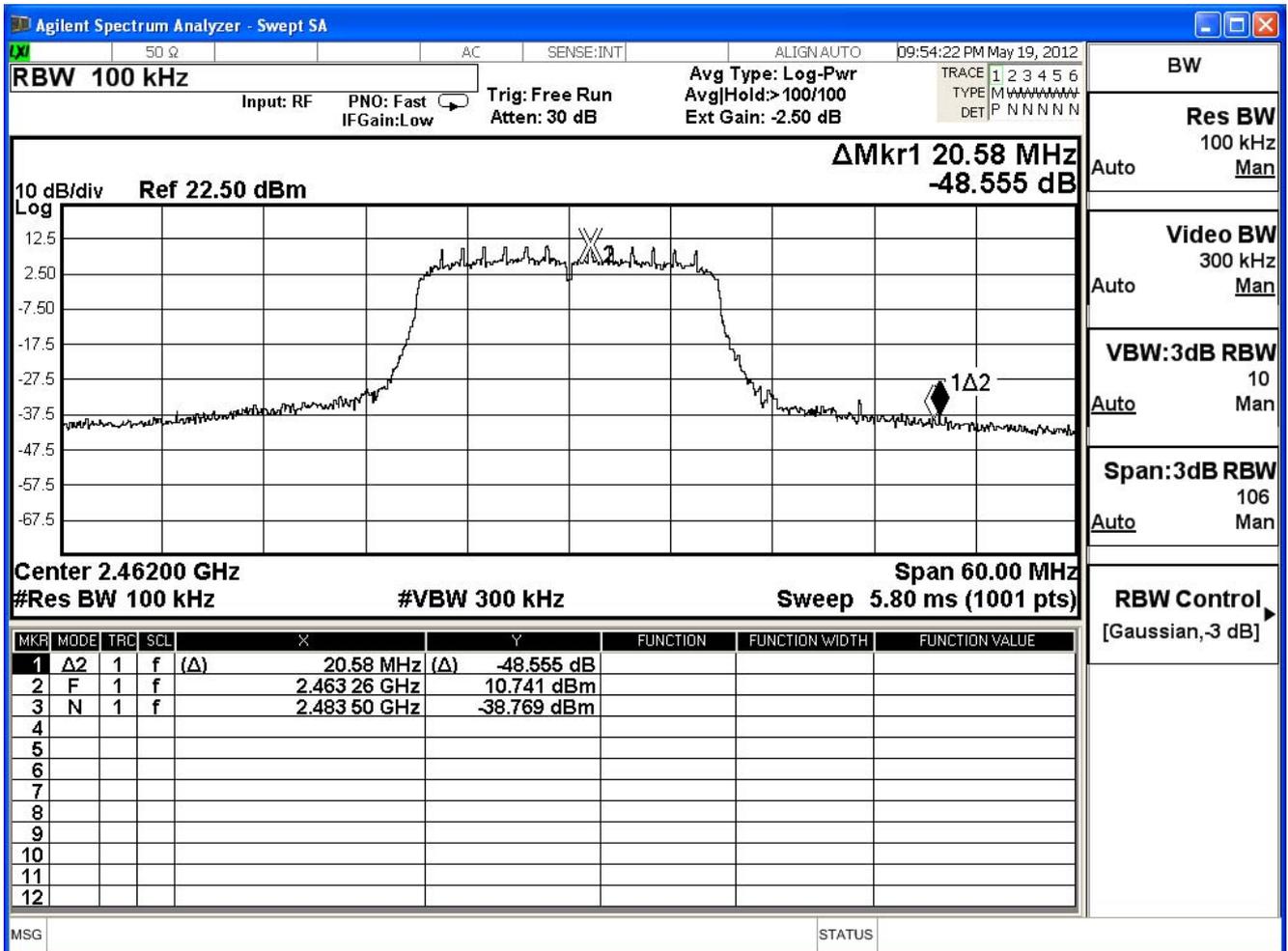
### Channel 01 (2412MHz)







Channel 11 (2462MHz)

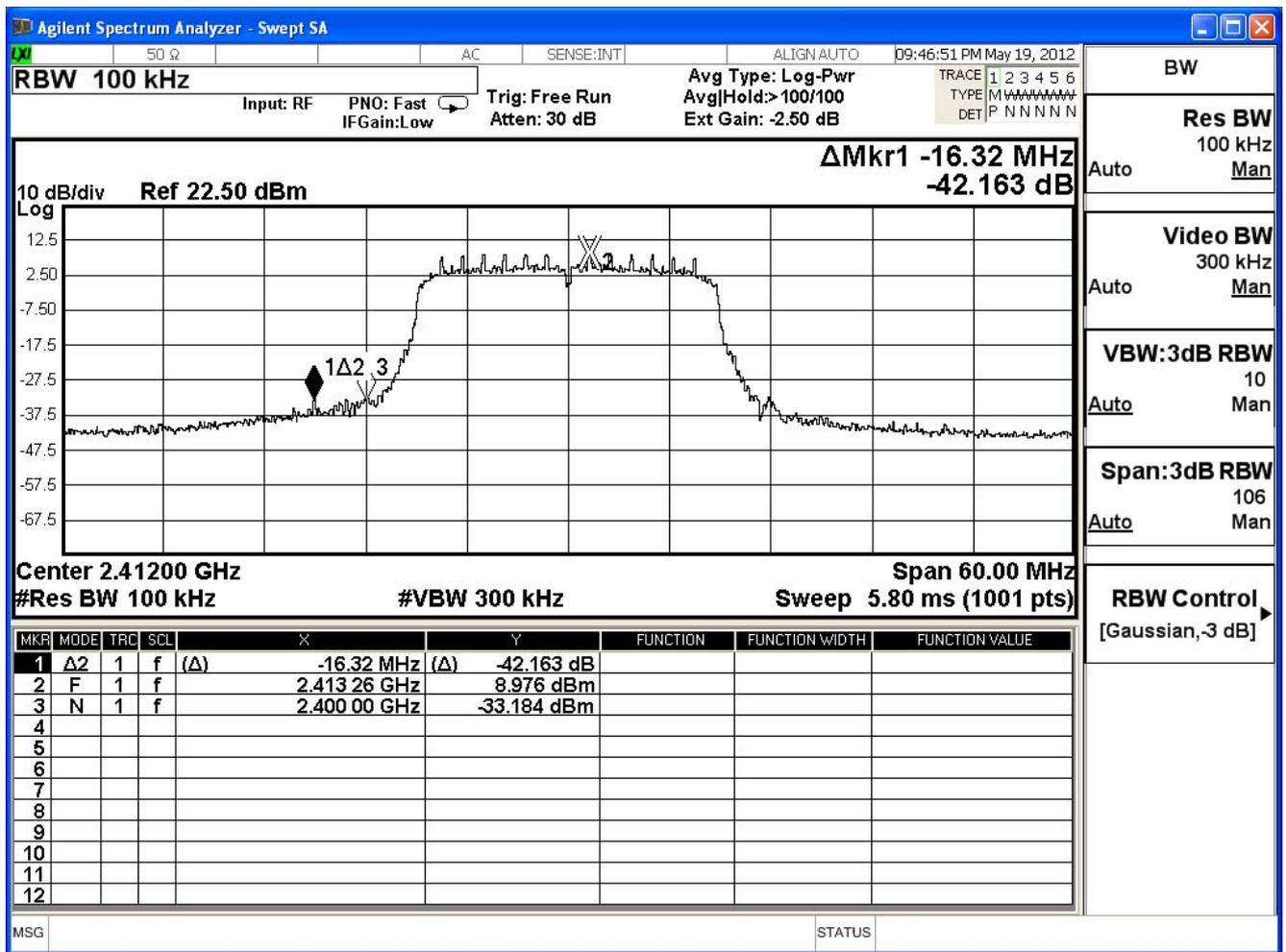


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IEEE 802.11n (20MHz), (ANT 1) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.163	≥20	Pass
11	2462	51.984	≥20	Pass

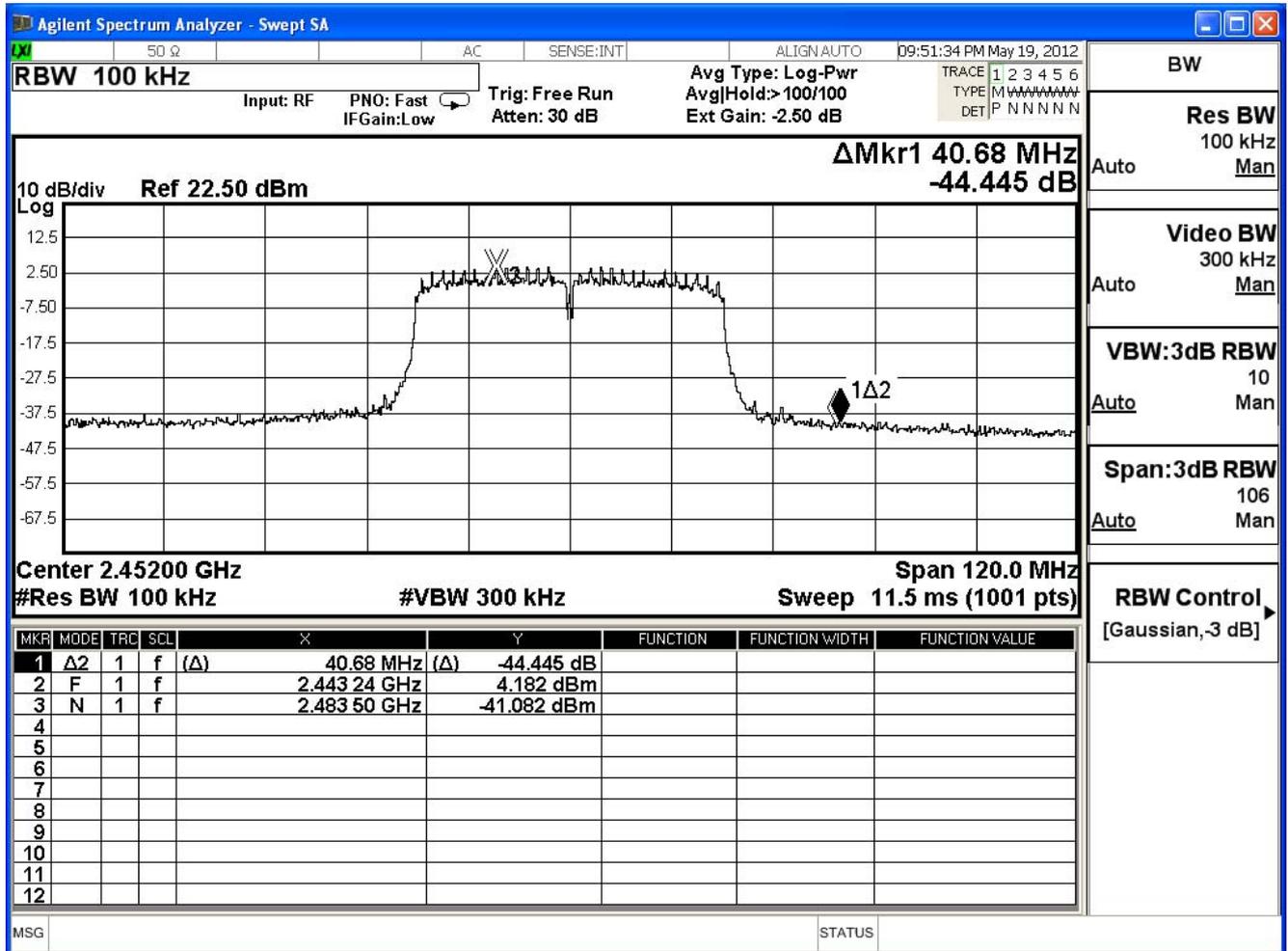
### Channel 1 (2412MHz)







Channel 9 (2452MHz)

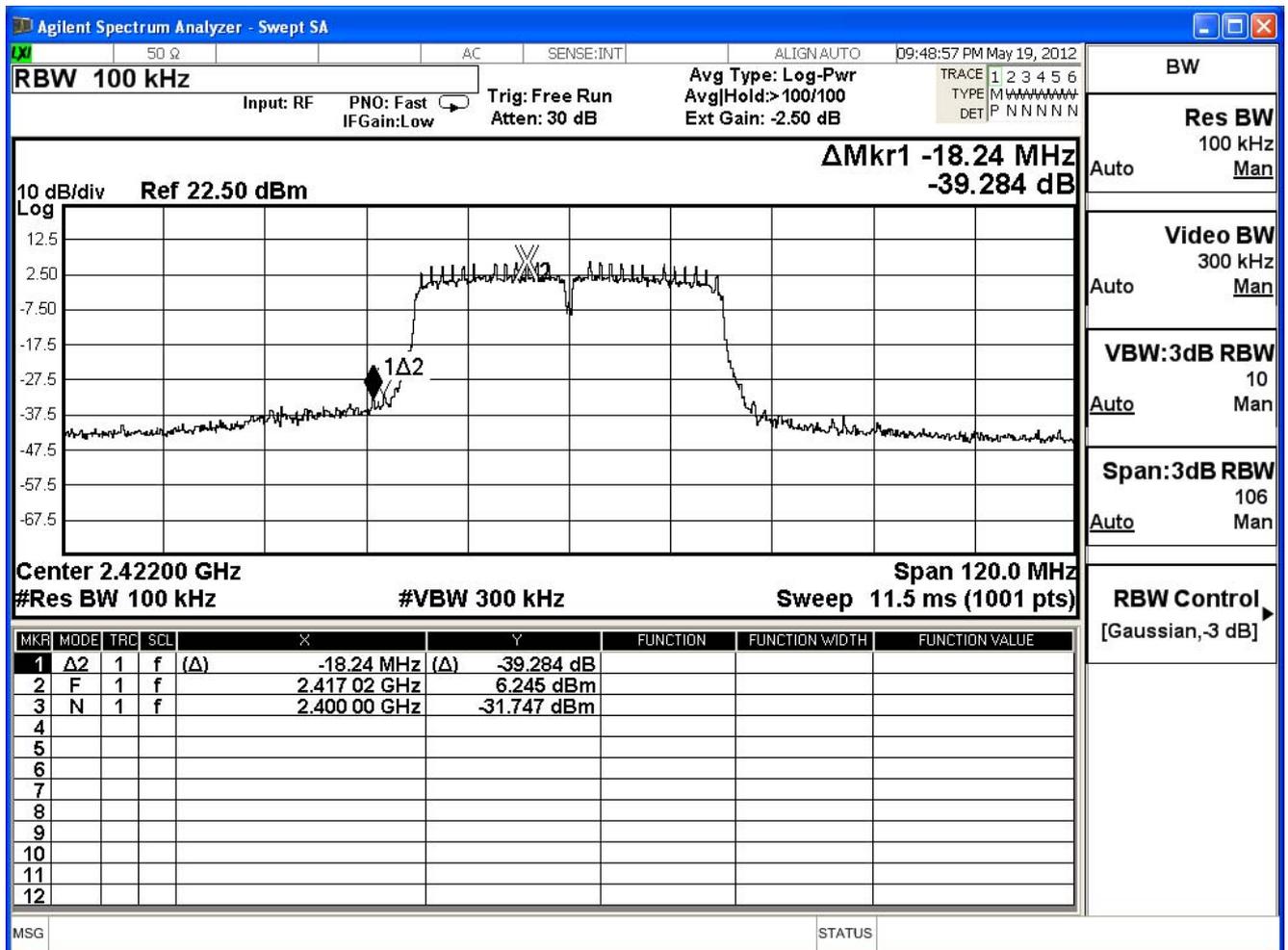


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IEEE 802.11n (40MHz), (ANT 1) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	39.284	≥20	Pass
9	2452	42.962	≥20	Pass

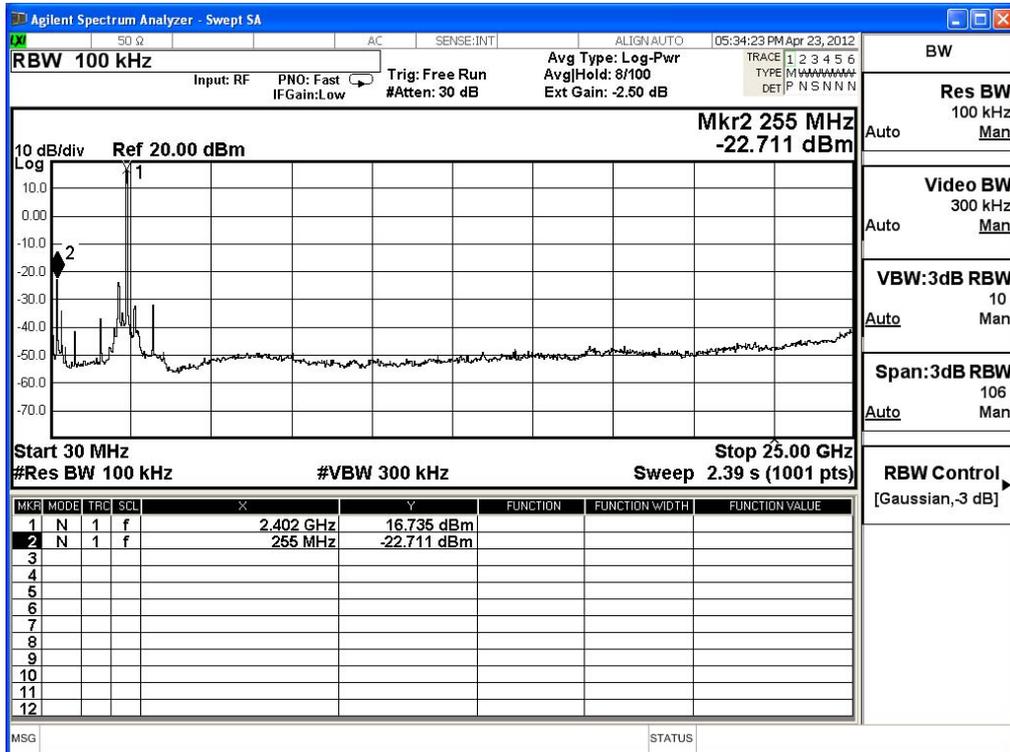
### Channel 3 (2422MHz)



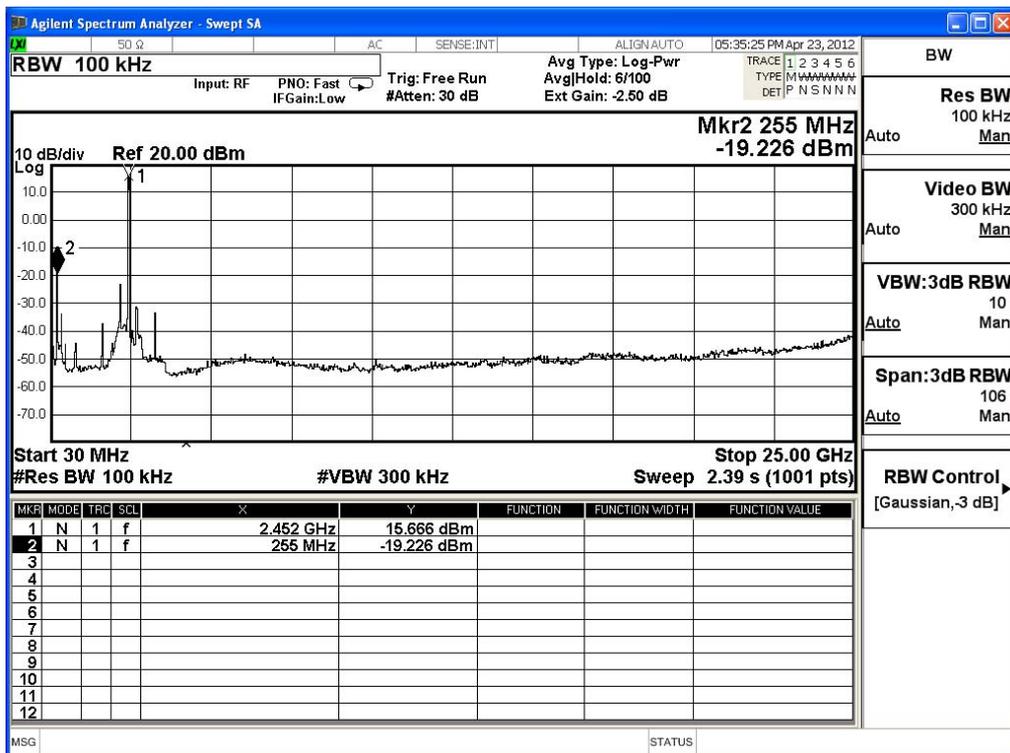


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Test Item	RF antenna conducted test		
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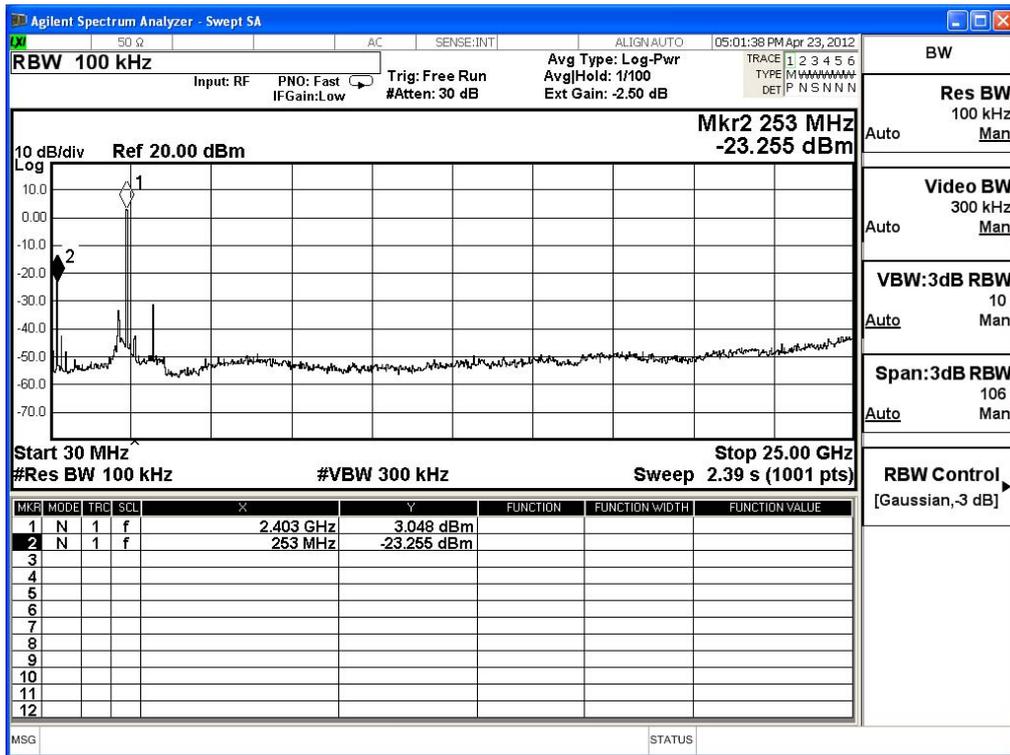
### 2412MHz (30MHz-25GHz)-802.11b



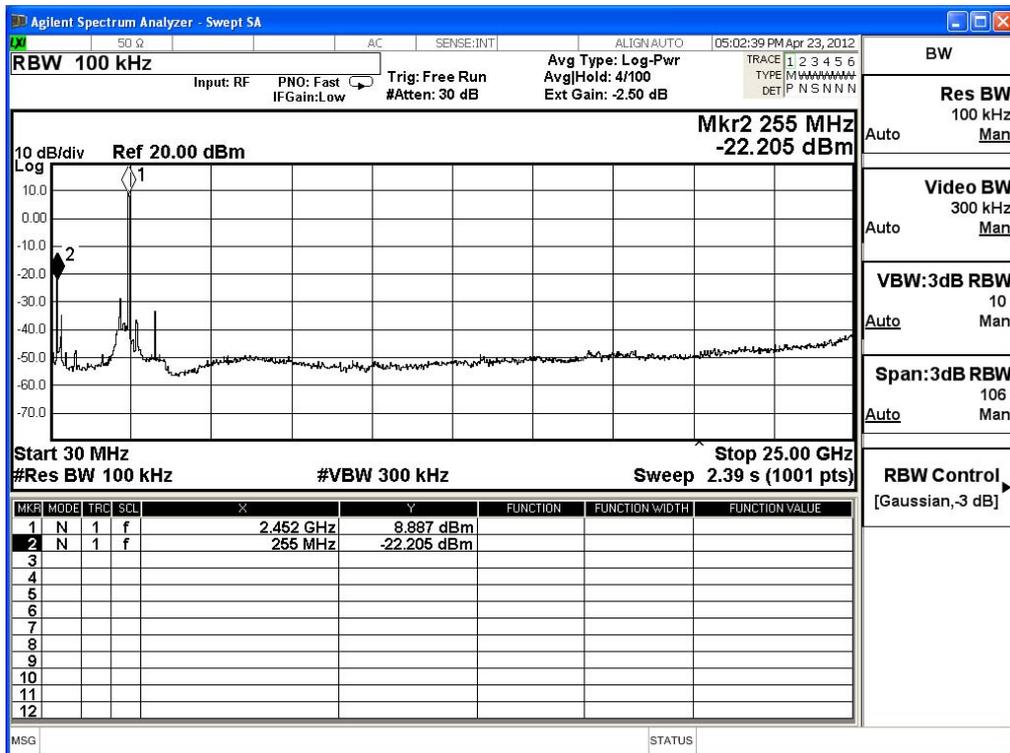
### 2462MHz (30MHz-25GHz) -802.11b



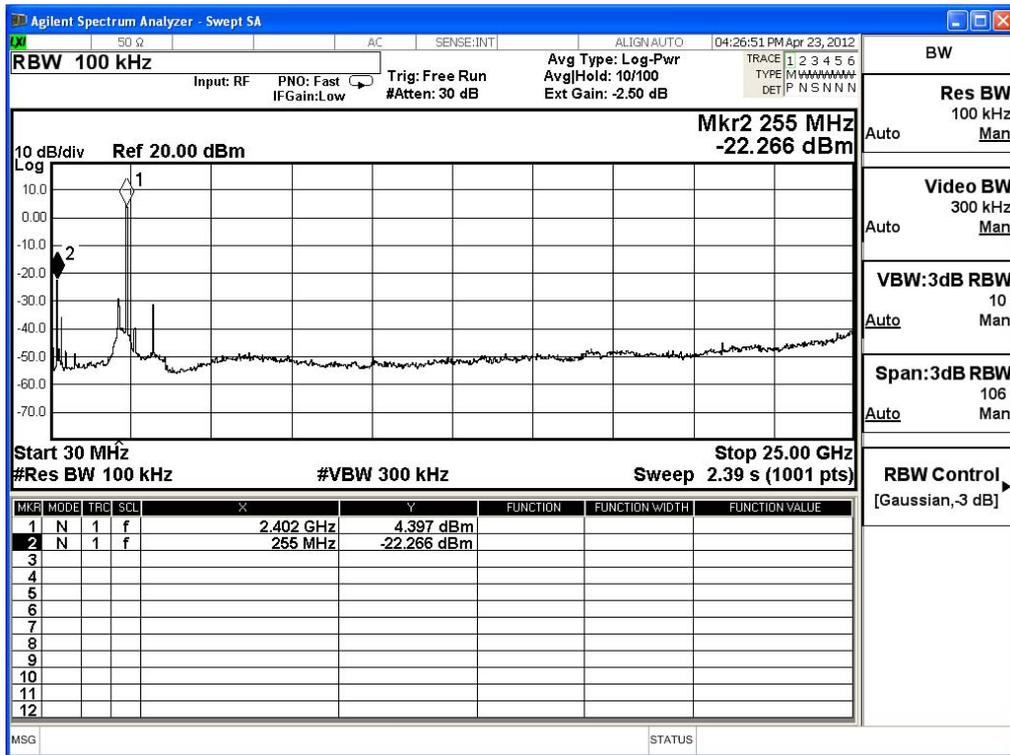
2412MHz (30MHz-25GHz)-802.11g



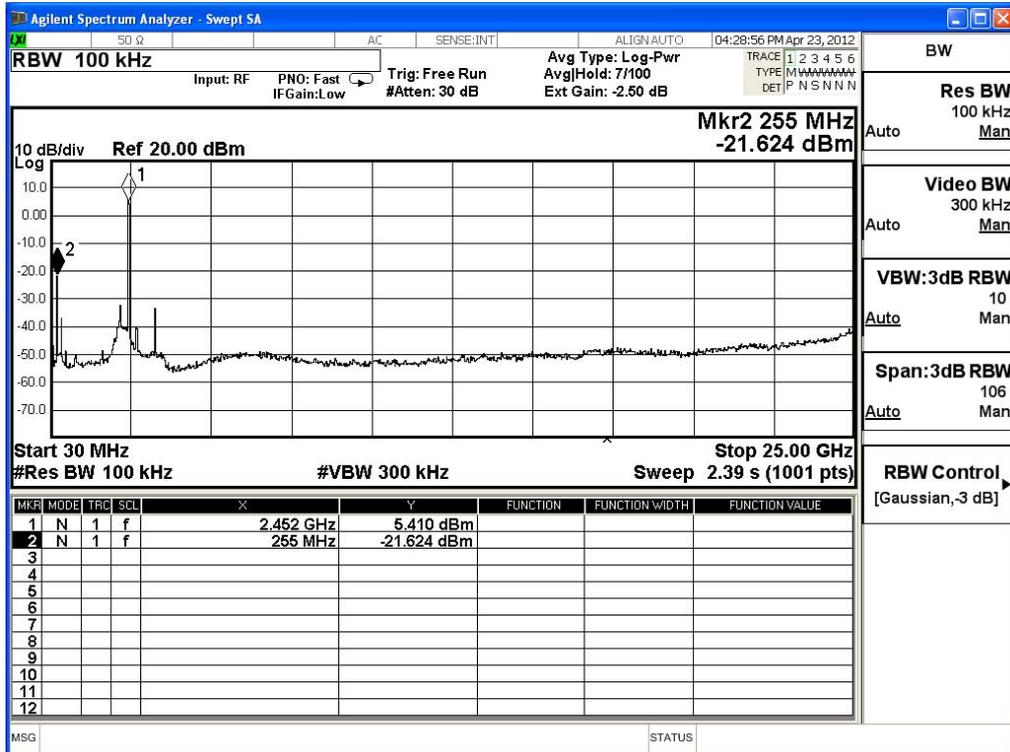
2462MHz (30MHz-25GHz) -802.11g



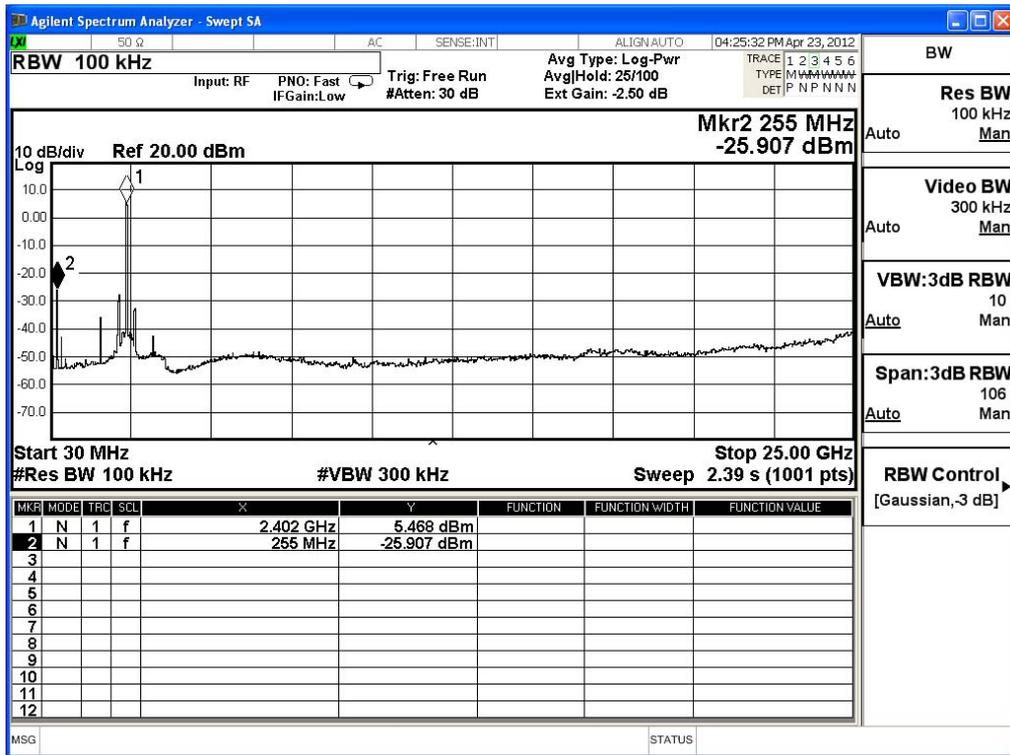
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 0



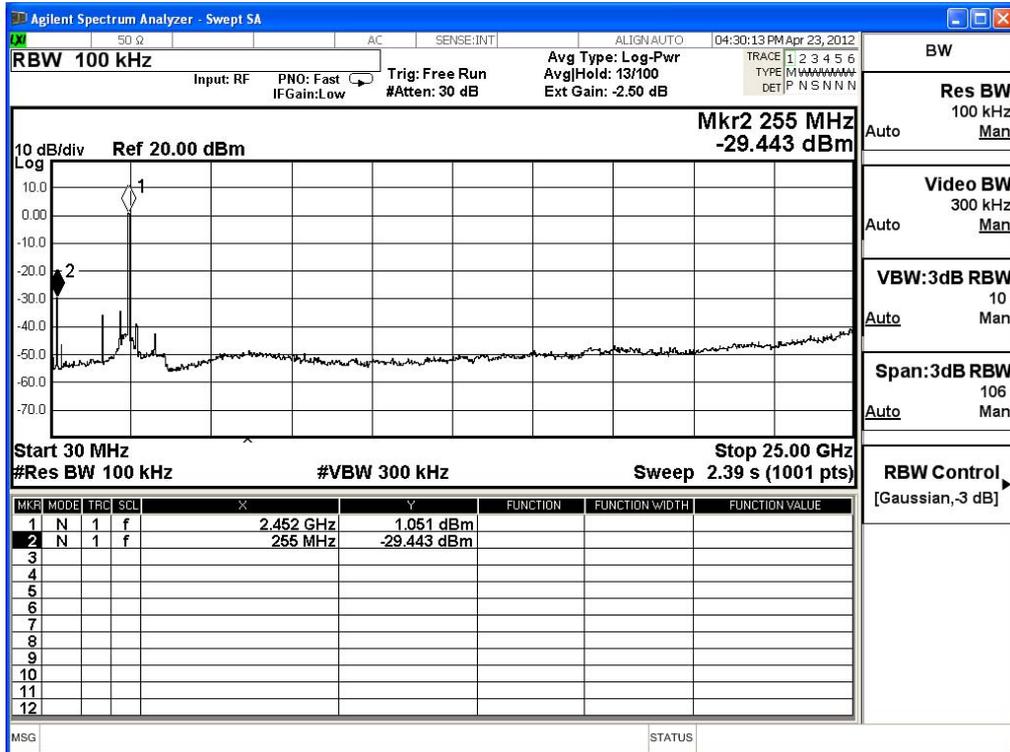
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 0



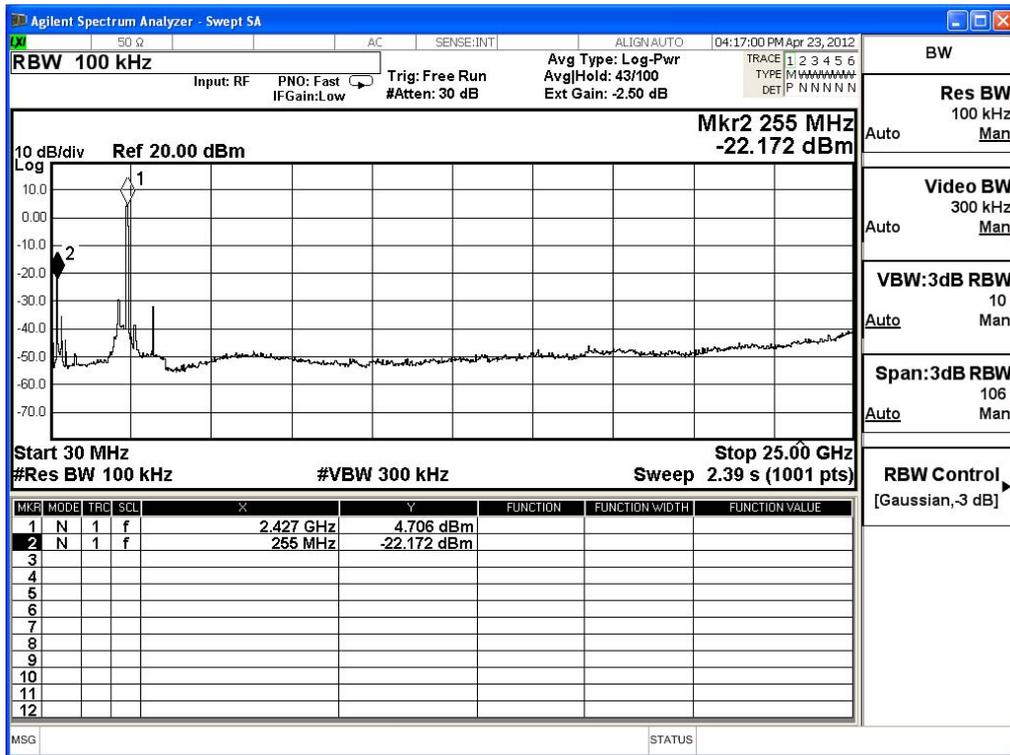
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 1



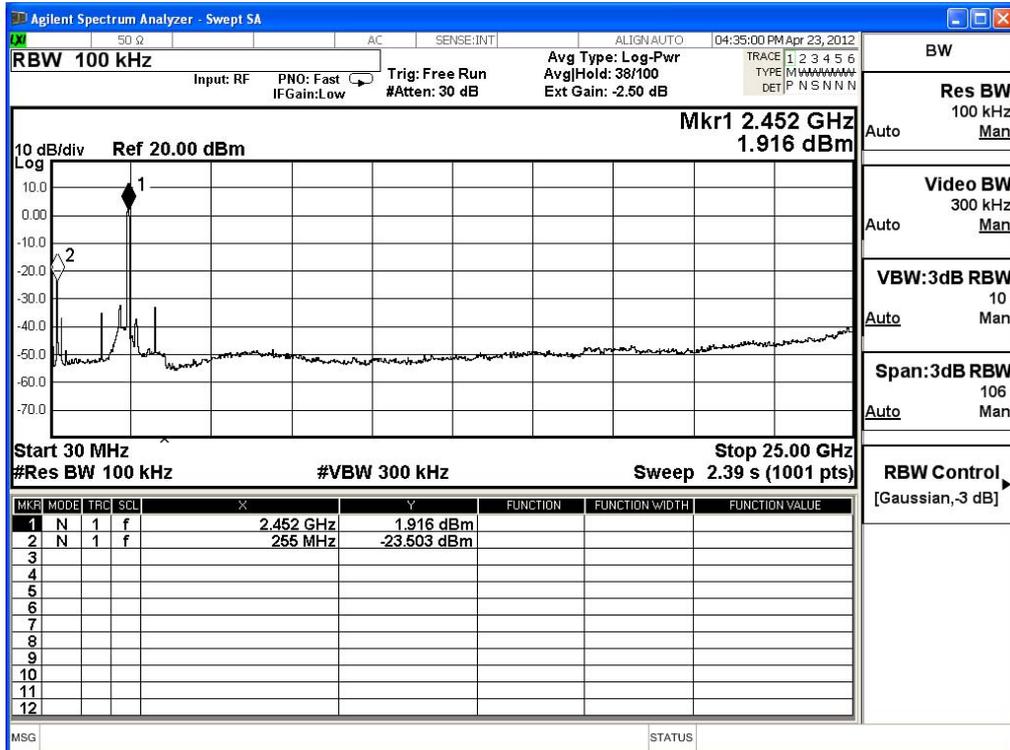
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 1



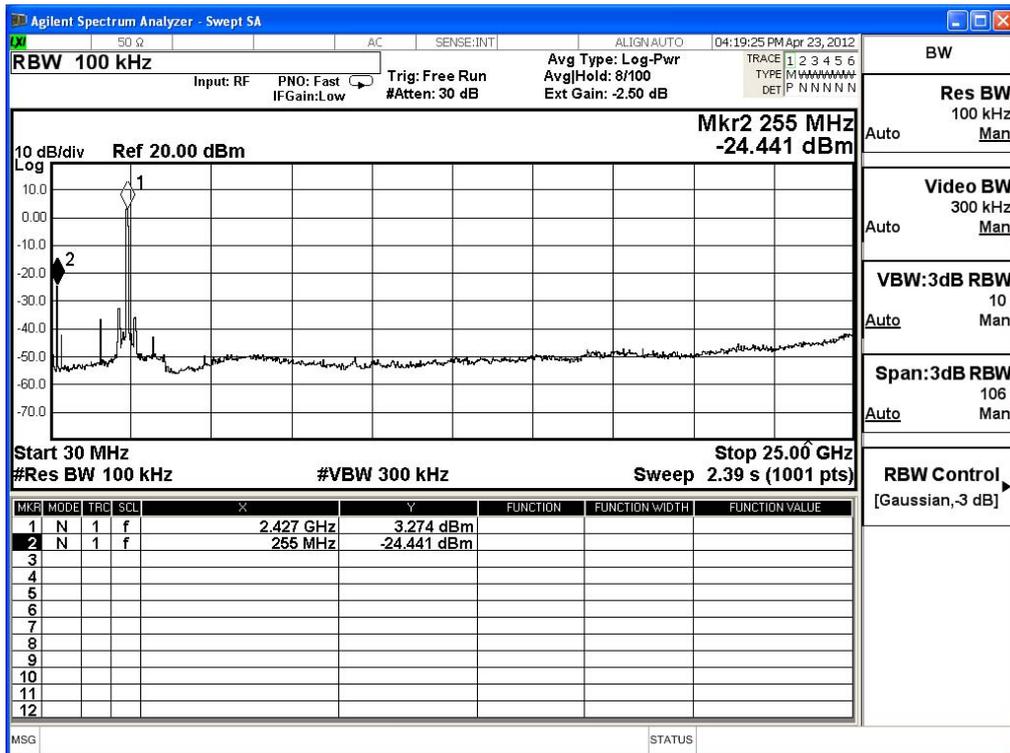
2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 0



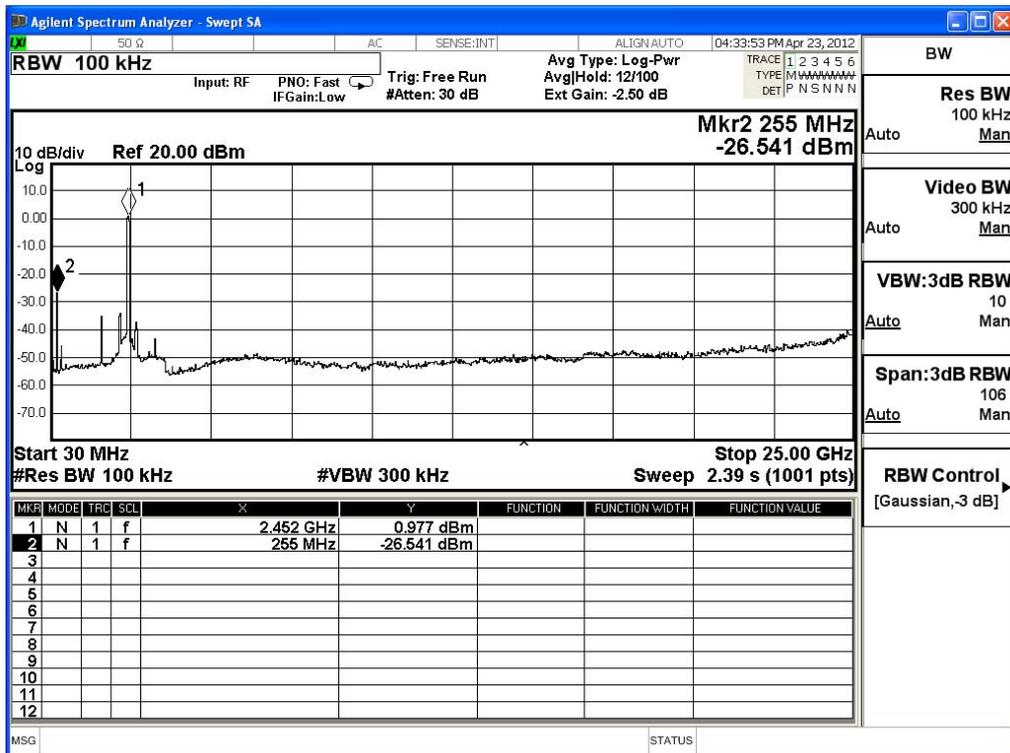
2452MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 0



2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 1



2452MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 1

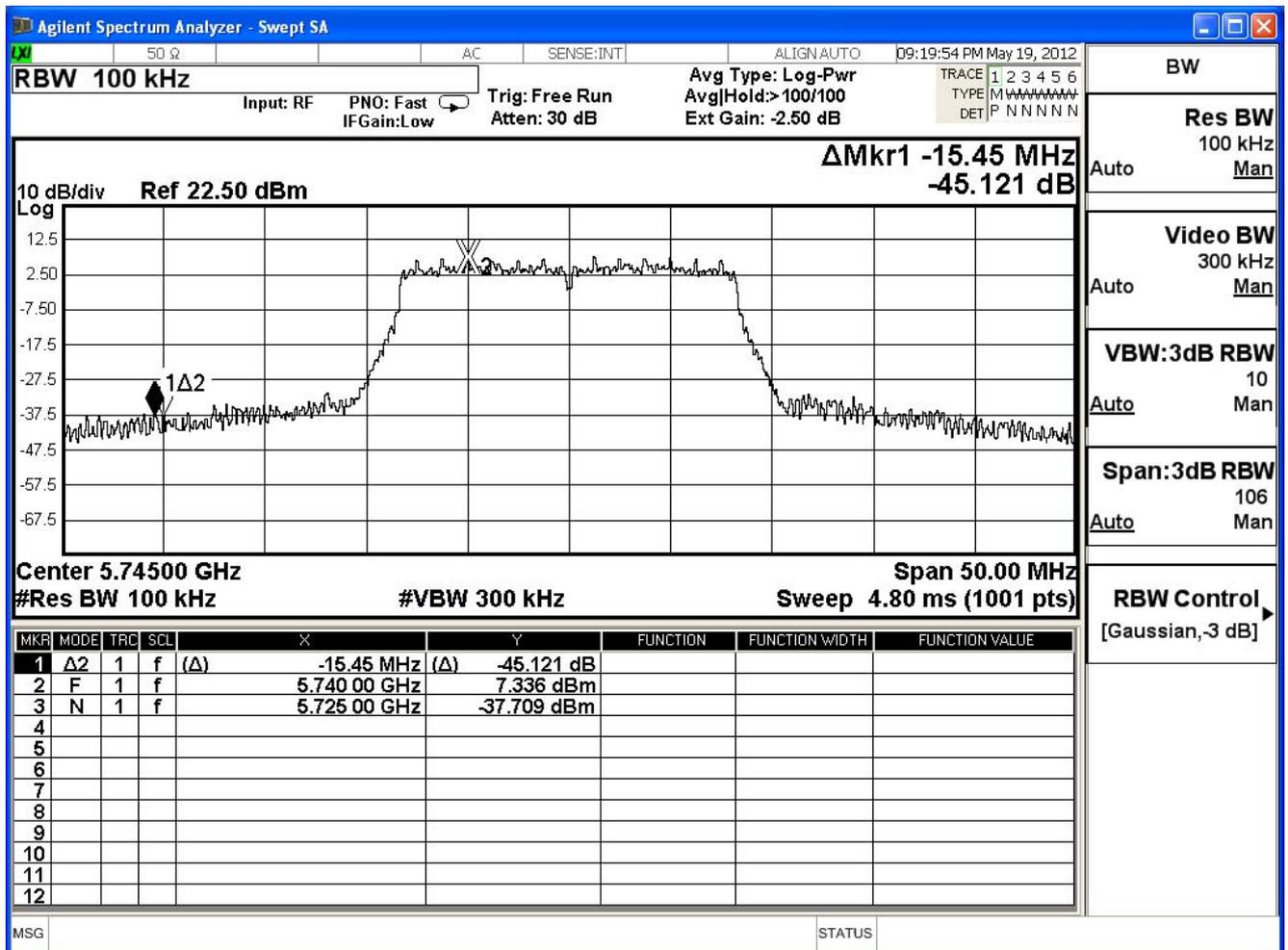


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IEEE 802.11a, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	45.121	≥20	Pass
165	5825	48.894	≥20	Pass

### Channel 149 (5745MHz)

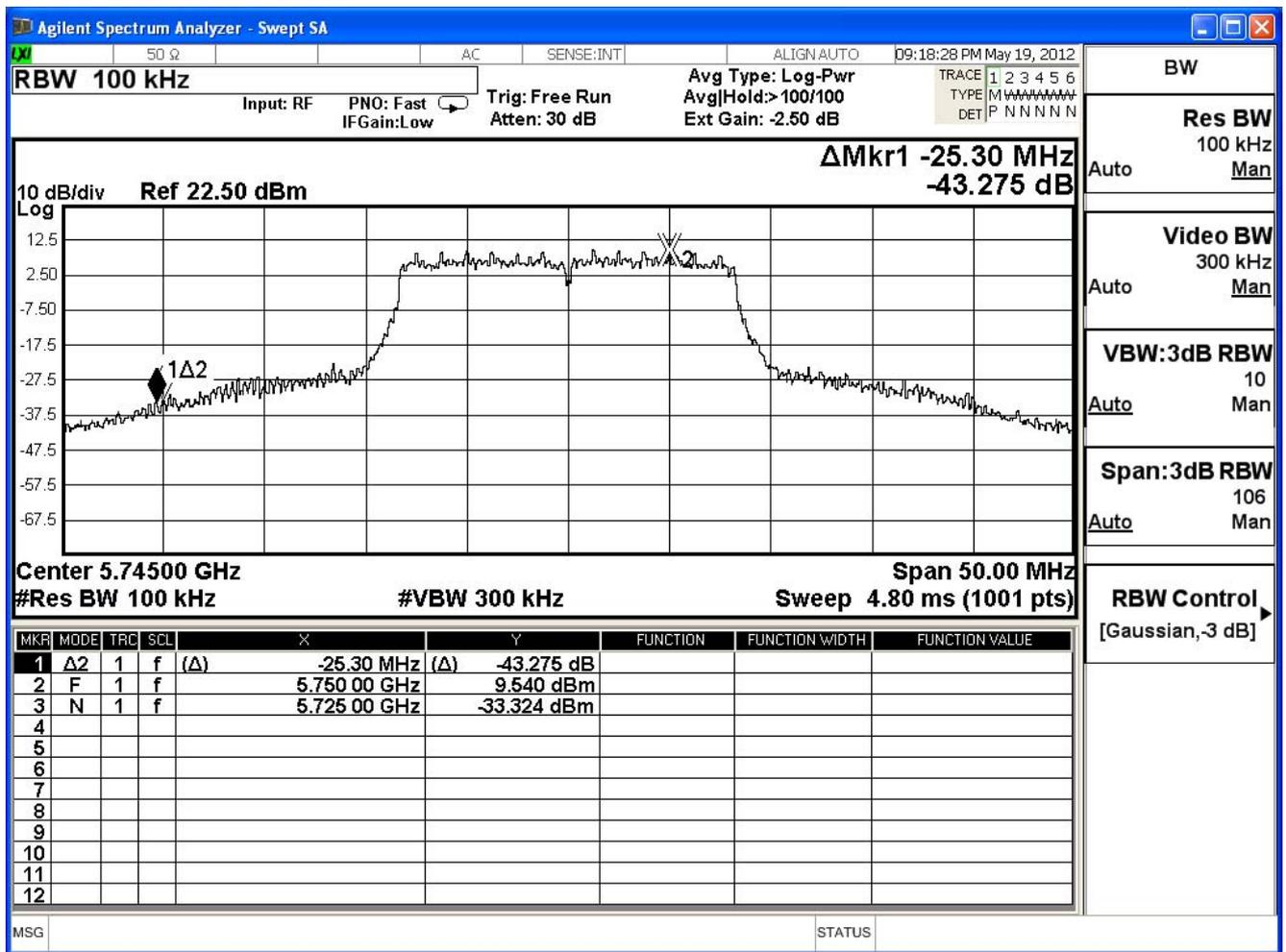




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IEEE 802.11n (20MHz), (ANT 0) Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	43.275	$\geq 20$	Pass
165	5825	51.575	$\geq 20$	Pass

### Channel 149 (5745MHz)



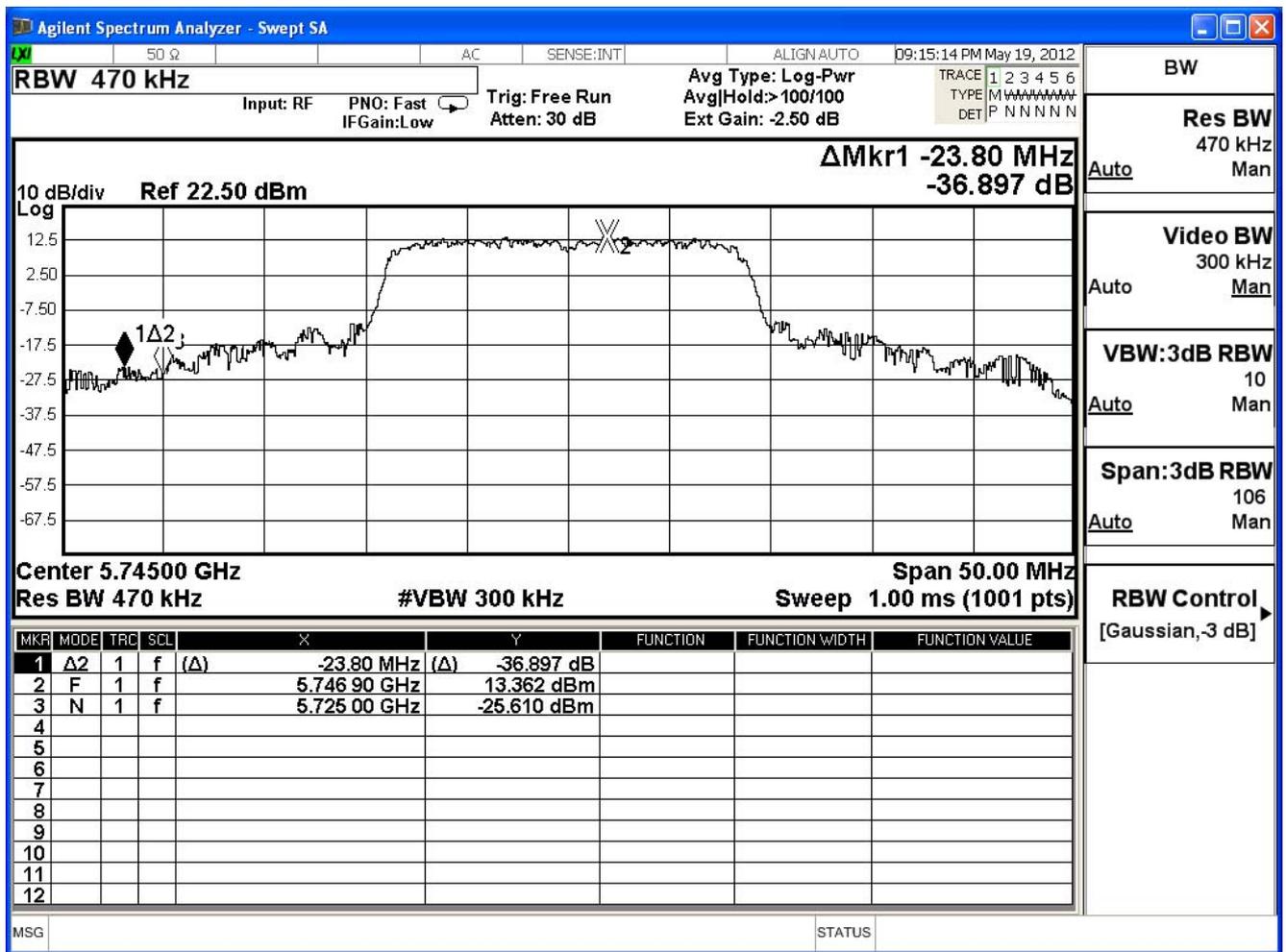


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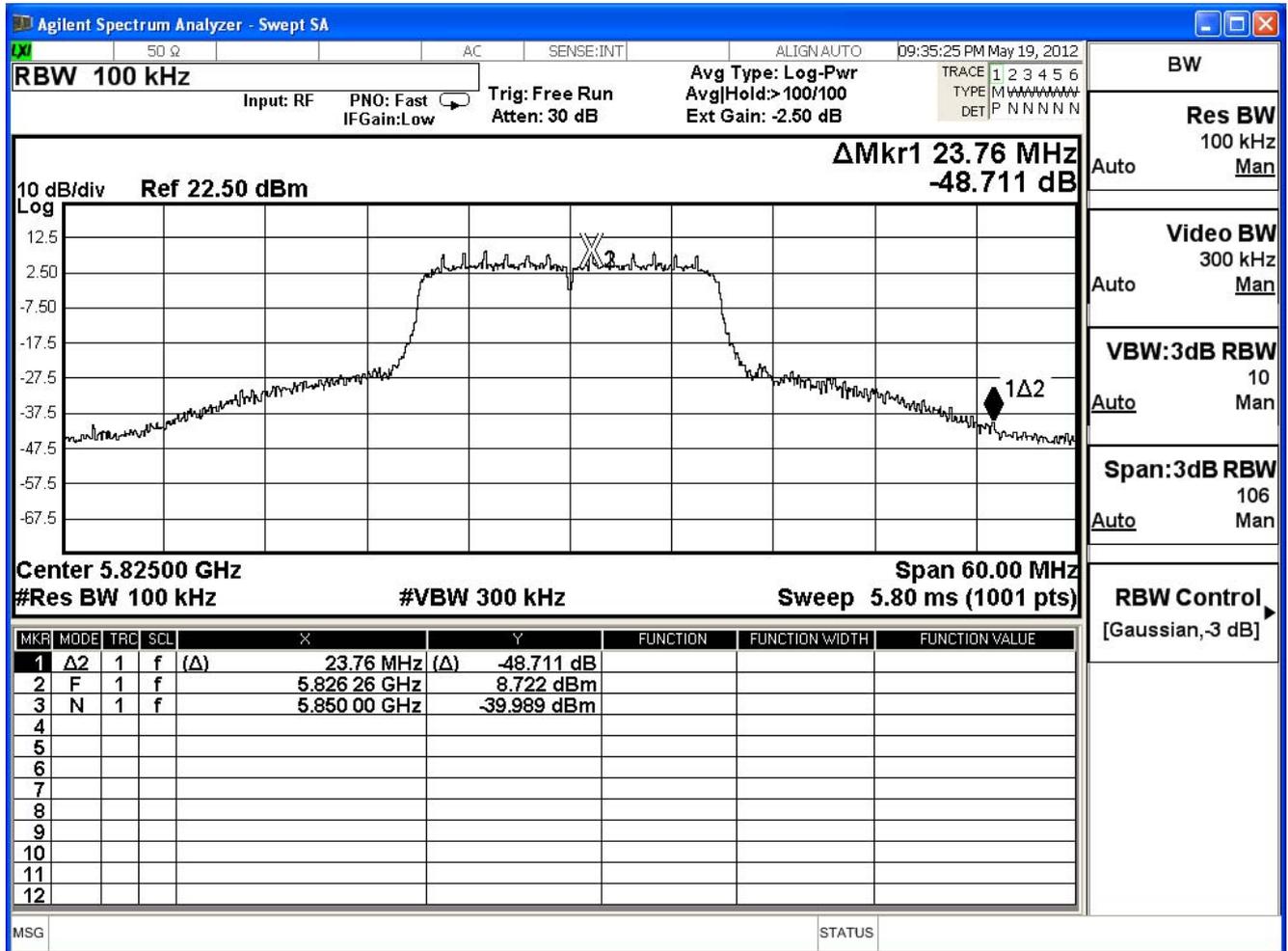
IEEE 802.11n (20MHz), (ANT 1) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	36.897	$\geq 20$	Pass
165	5825	48.711	$\geq 20$	Pass

### Channel 149 (5745MHz)



Channel 165 (5825MHz)

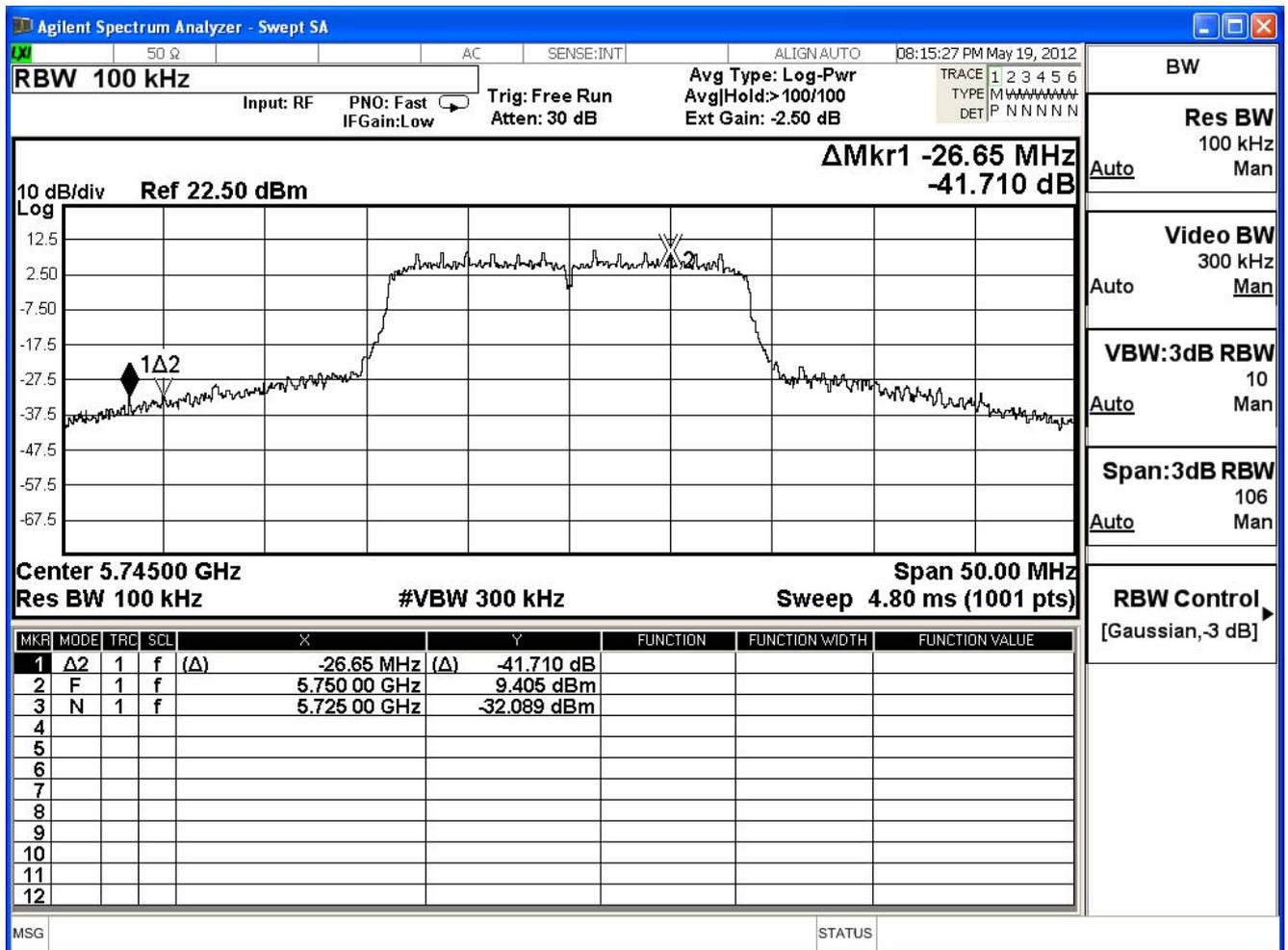


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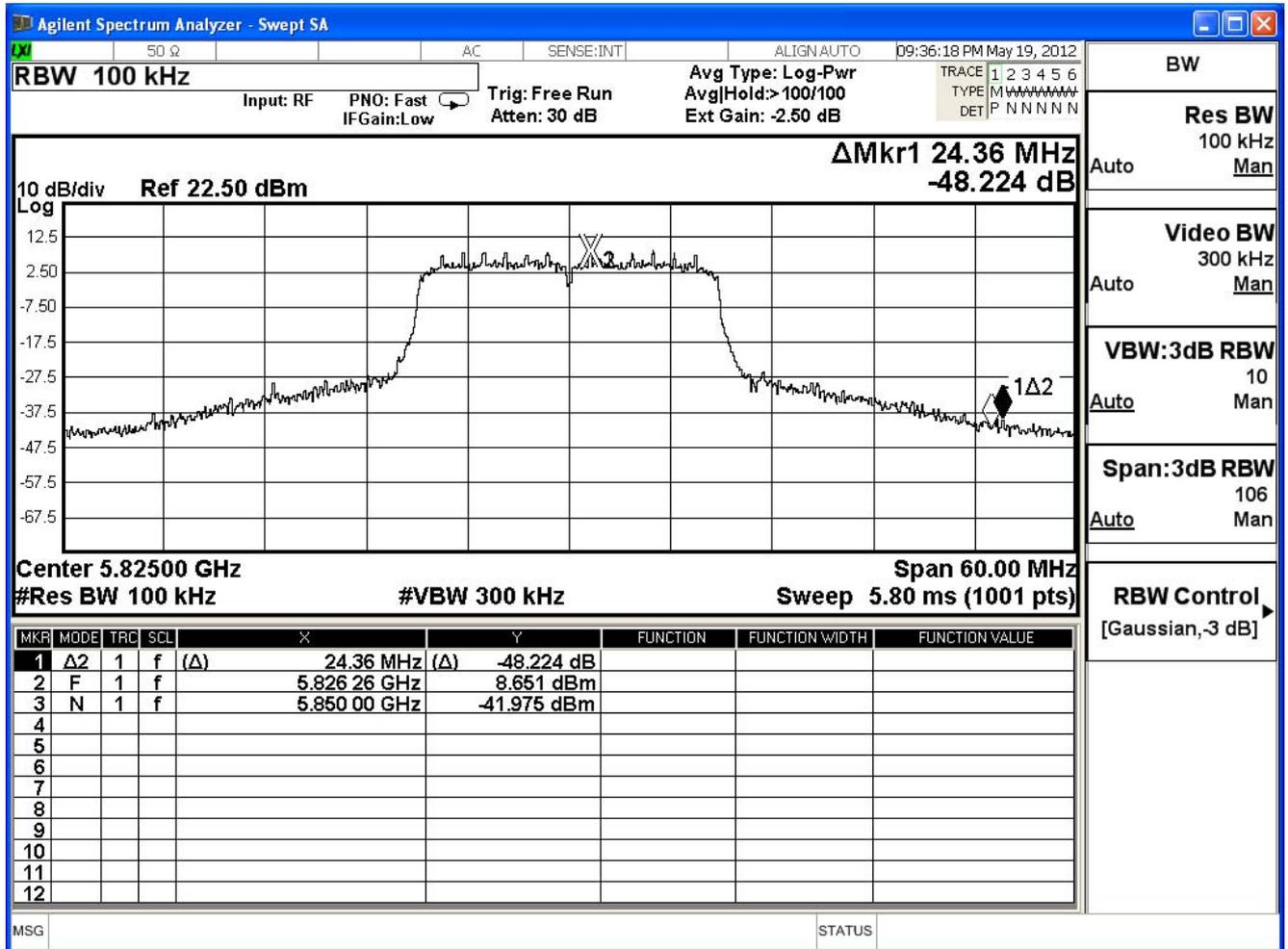
IEEE 802.11n (20MHz), (ANT 2) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	41.710	≥ 20	Pass
165	5825	48.224	≥ 20	Pass

### Channel 149 (5745MHz)



Channel 165 (5825MHz)

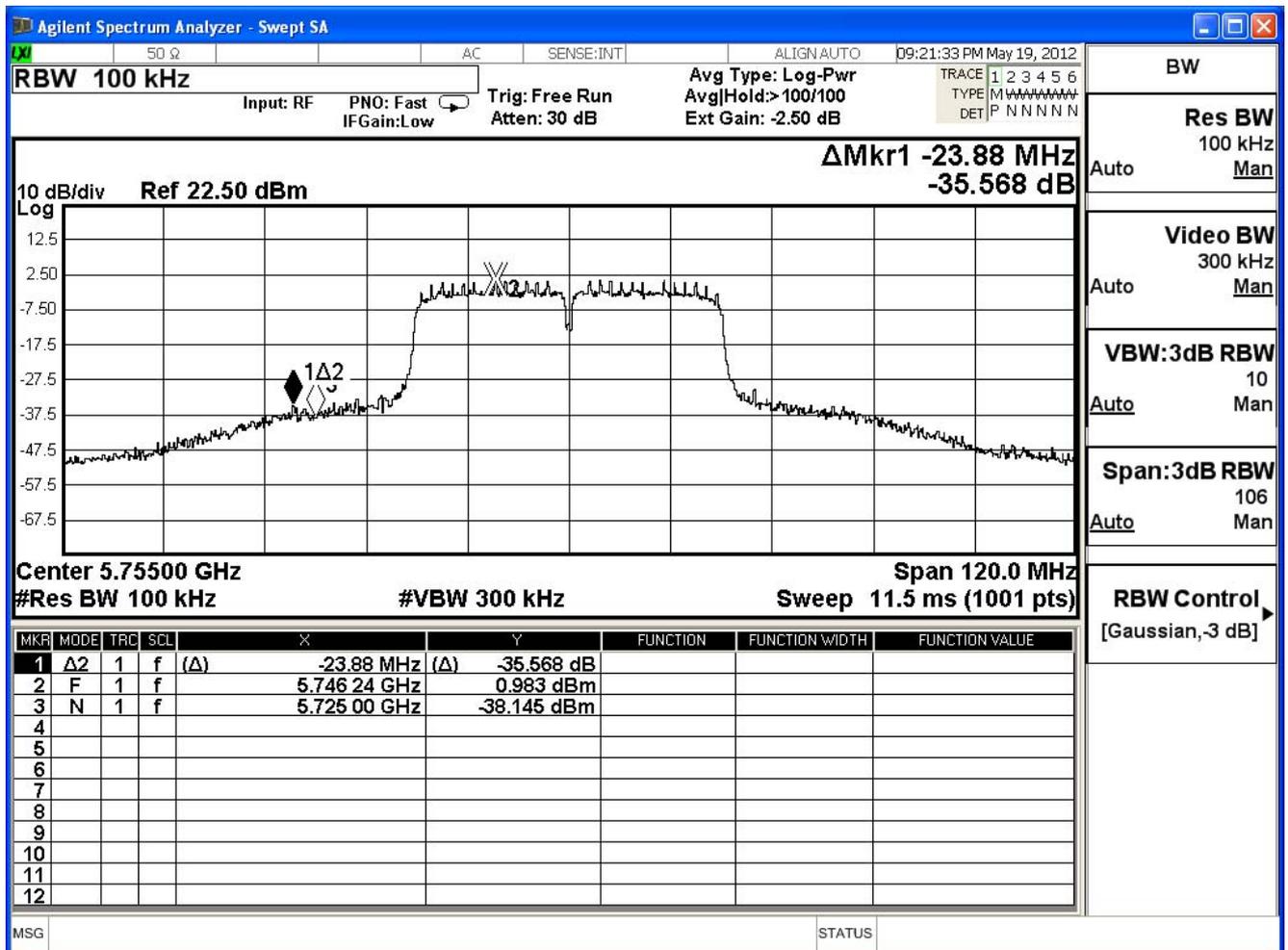


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IEEE 802.11n (40MHz), (ANT 0) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	35.568	$\geq 20$	Pass
159	5795	47.818	$\geq 20$	Pass

### Channel 151 (5755MHz)











Channel 159 (5795MHz)

