

Test Data for 5G_Band 2

Product Name: WIFI module

Test Model: ALX850B

Appendix for 15.407

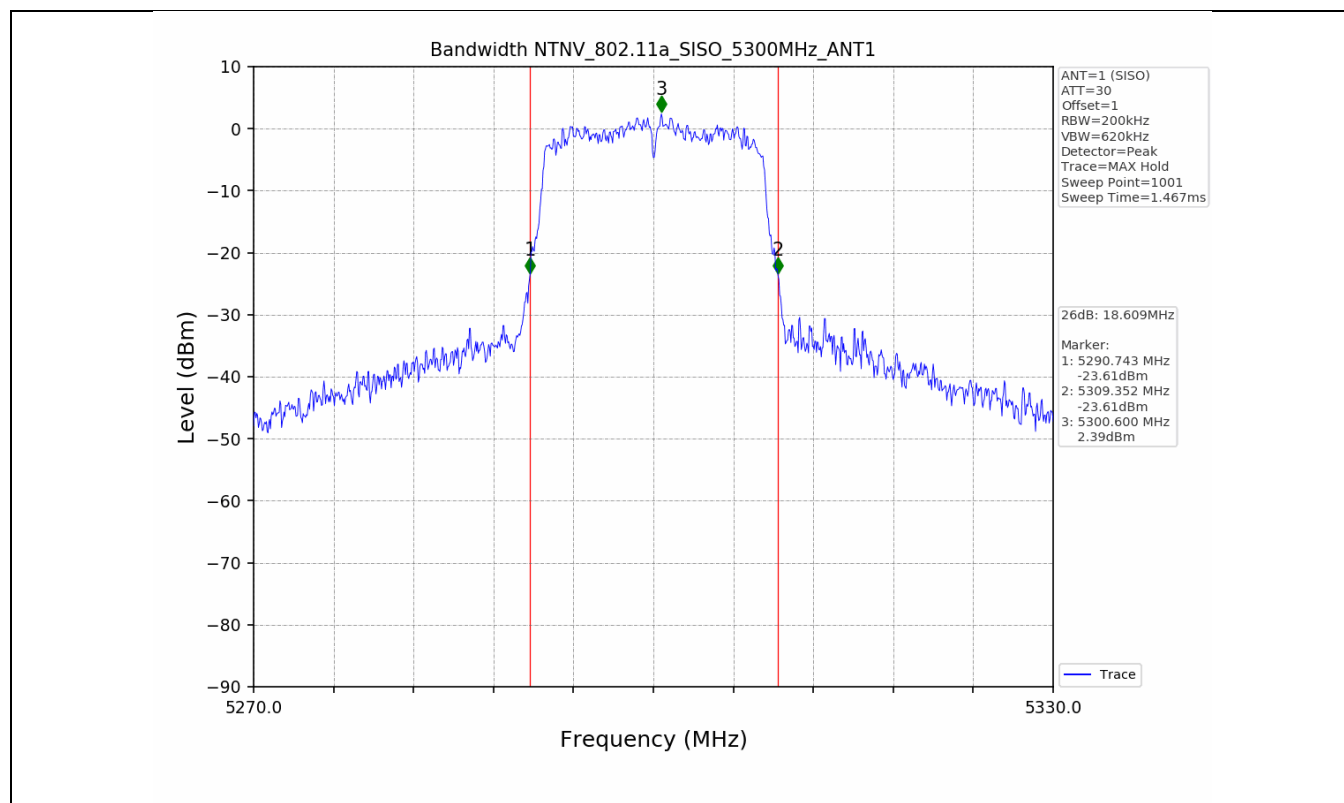
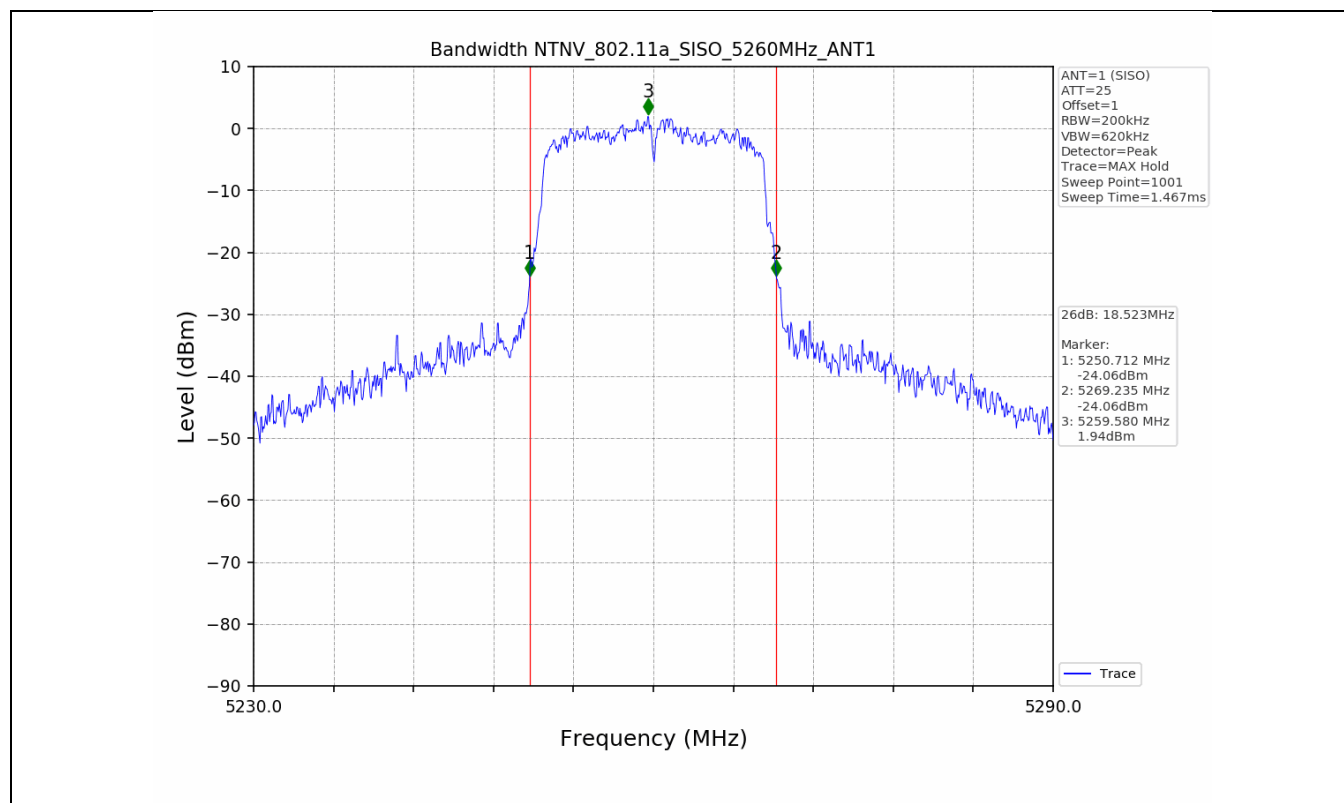
1. Bandwidth

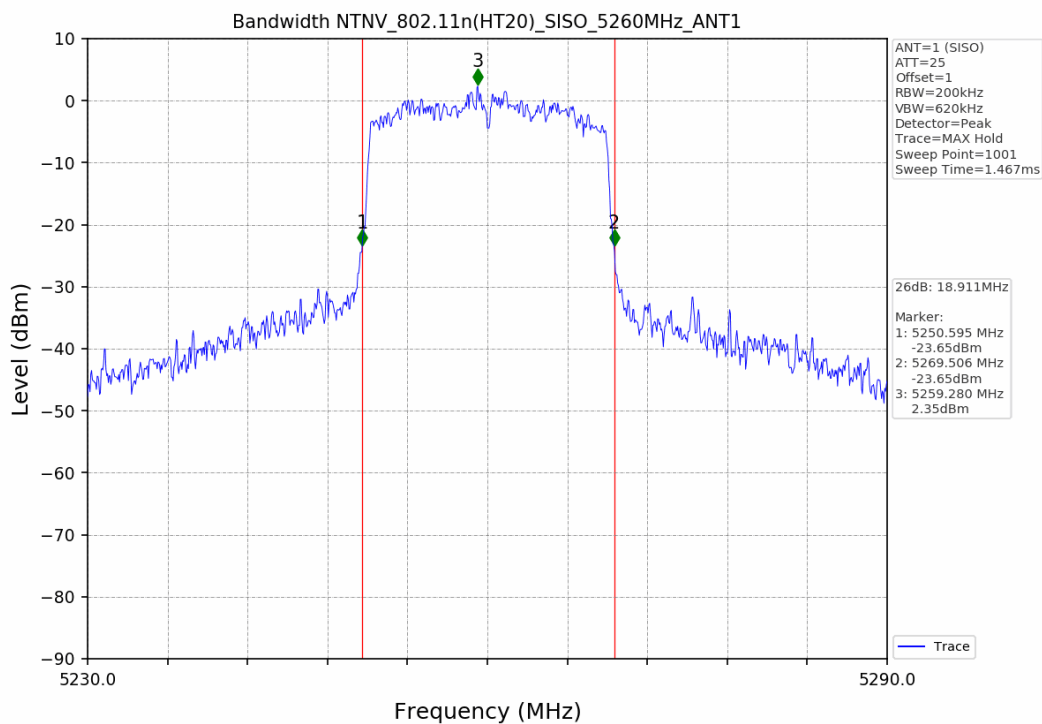
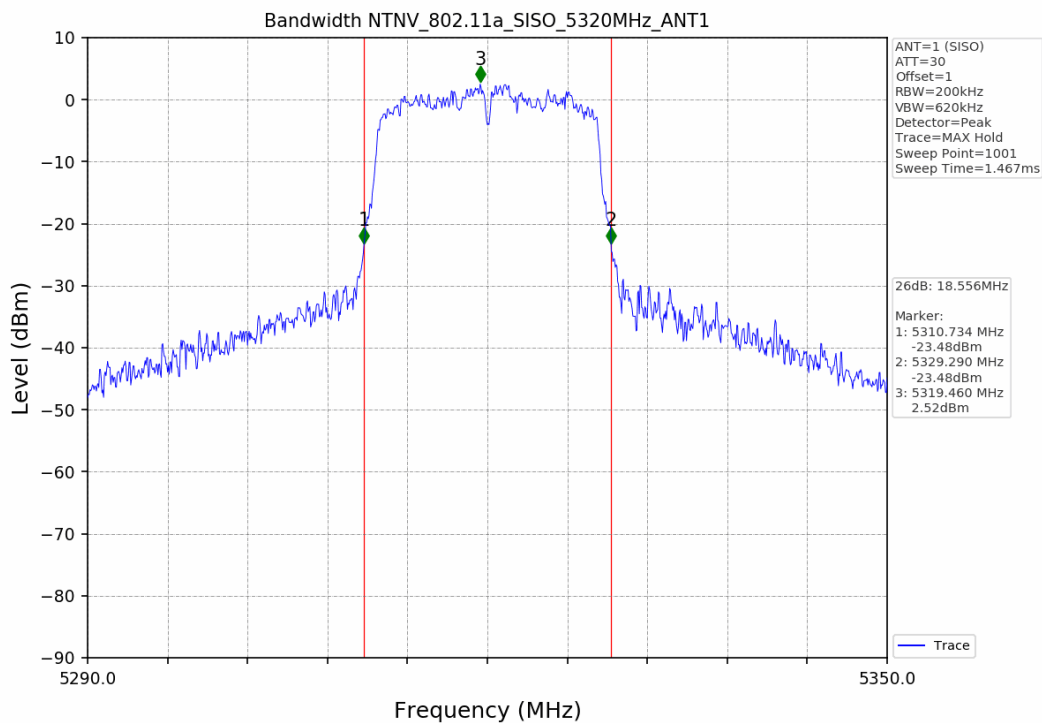
1.1 Test Result

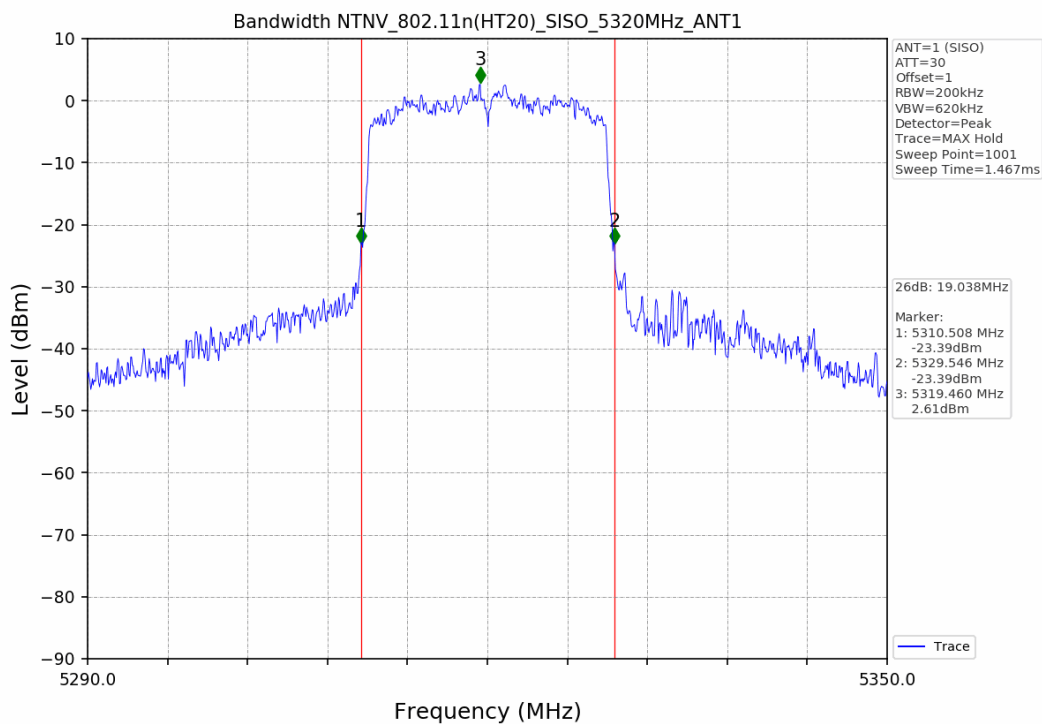
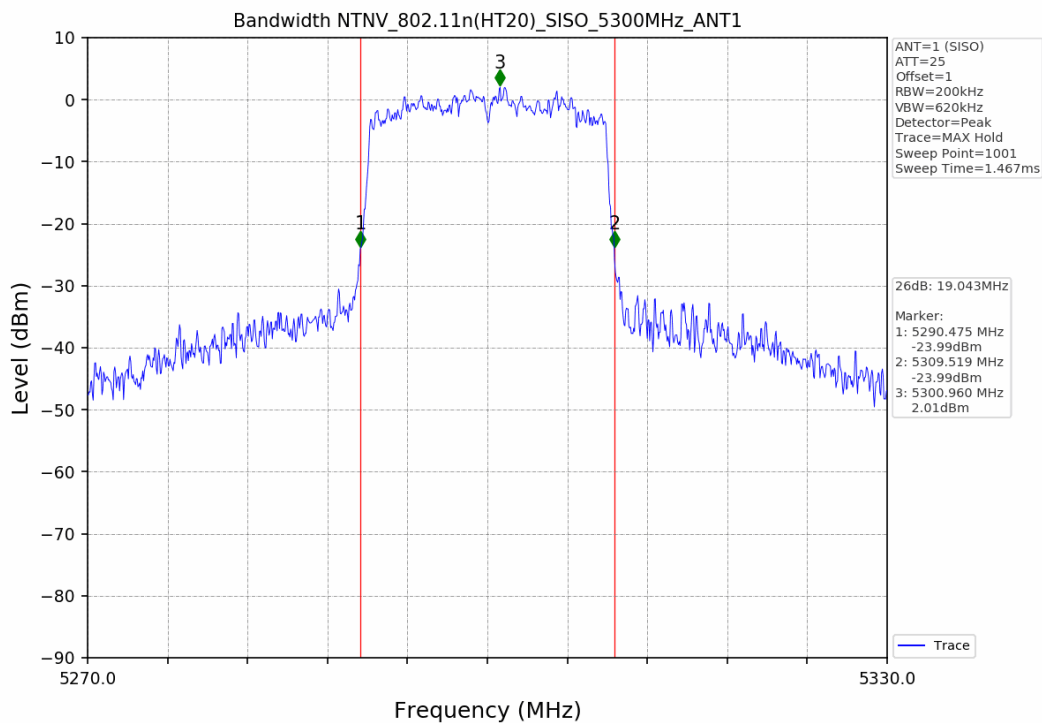
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5260	SISO	1	18.523	Only for Report Use	PASS
	5300	SISO	1	18.609	Only for Report Use	PASS
	5320	SISO	1	18.556	Only for Report Use	PASS
802.11n(HT20)	5260	SISO	1	18.911	Only for Report Use	PASS
	5300	SISO	1	19.043	Only for Report Use	PASS
	5320	SISO	1	19.038	Only for Report Use	PASS
802.11n(HT40)	5270	SISO	1	38.945	Only for Report Use	PASS
	5310	SISO	1	38.935	Only for Report Use	PASS

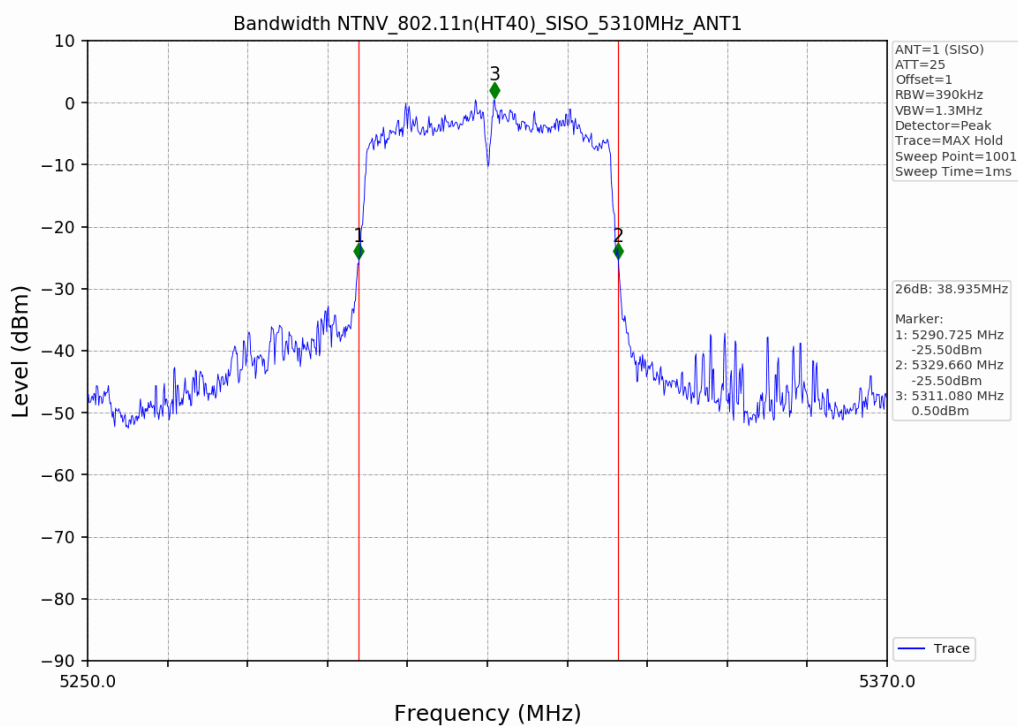
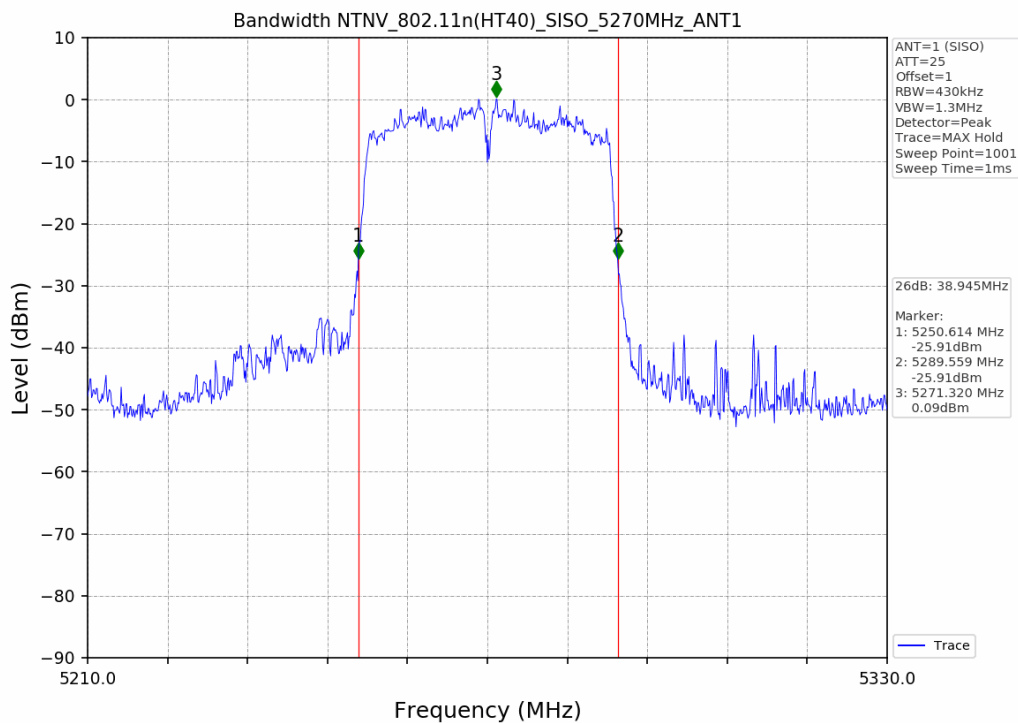
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5260	SISO	1	16.515	Only for Report Use
	5300	SISO	1	16.498	Only for Report Use
	5320	SISO	1	16.518	Only for Report Use
802.11n(HT20)	5260	SISO	1	17.605	Only for Report Use
	5300	SISO	1	17.591	Only for Report Use
	5320	SISO	1	17.604	Only for Report Use
802.11n(HT40)	5270	SISO	1	36.187	Only for Report Use
	5310	SISO	1	36.204	Only for Report Use

1.2 Test Graph - Emission Bandwidth

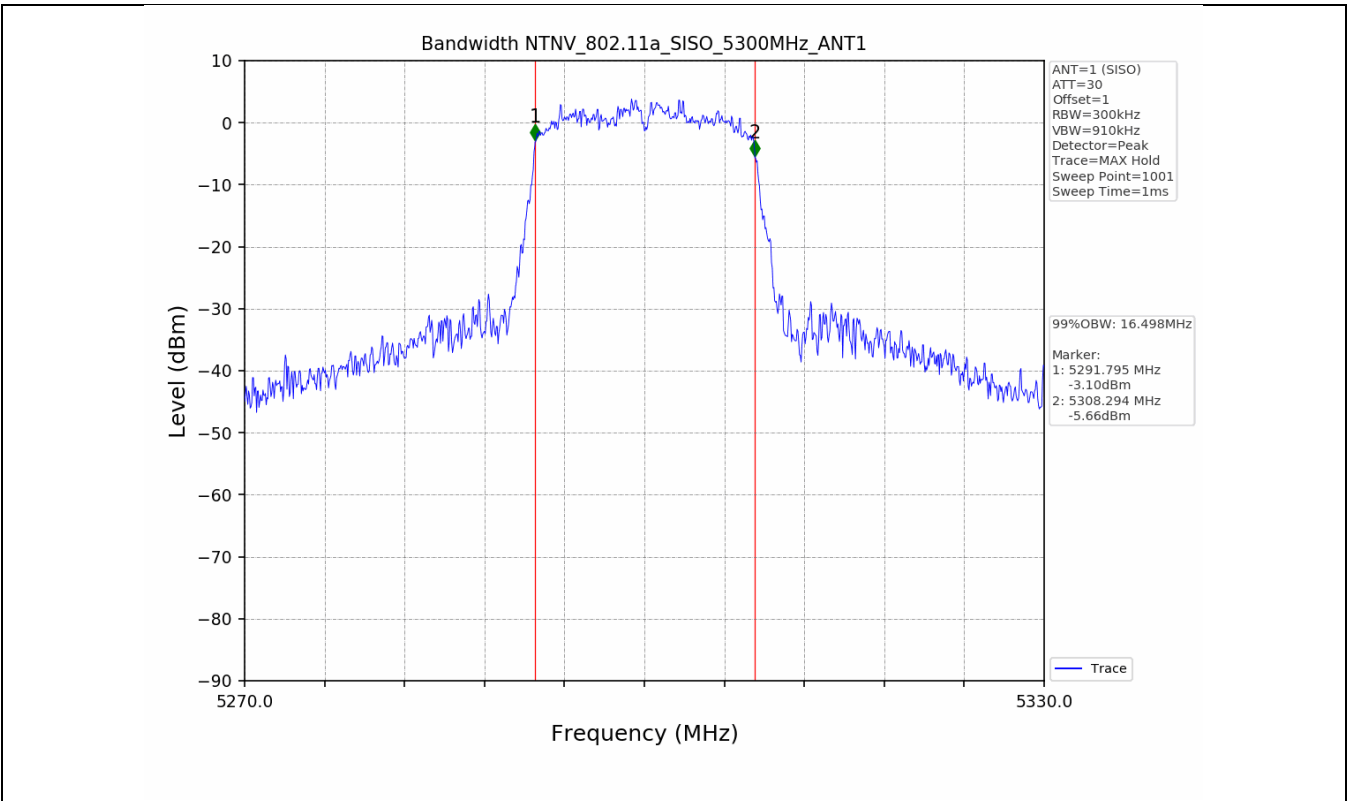
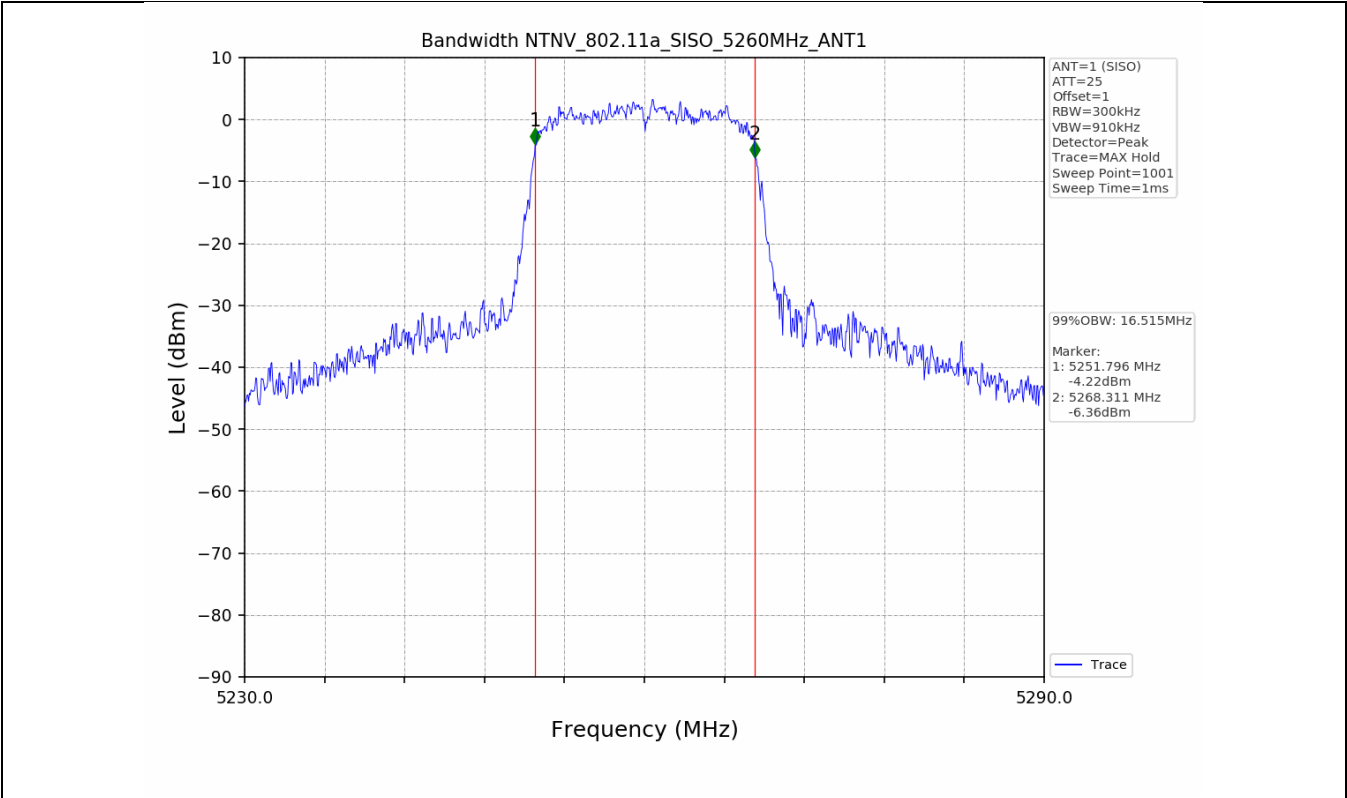


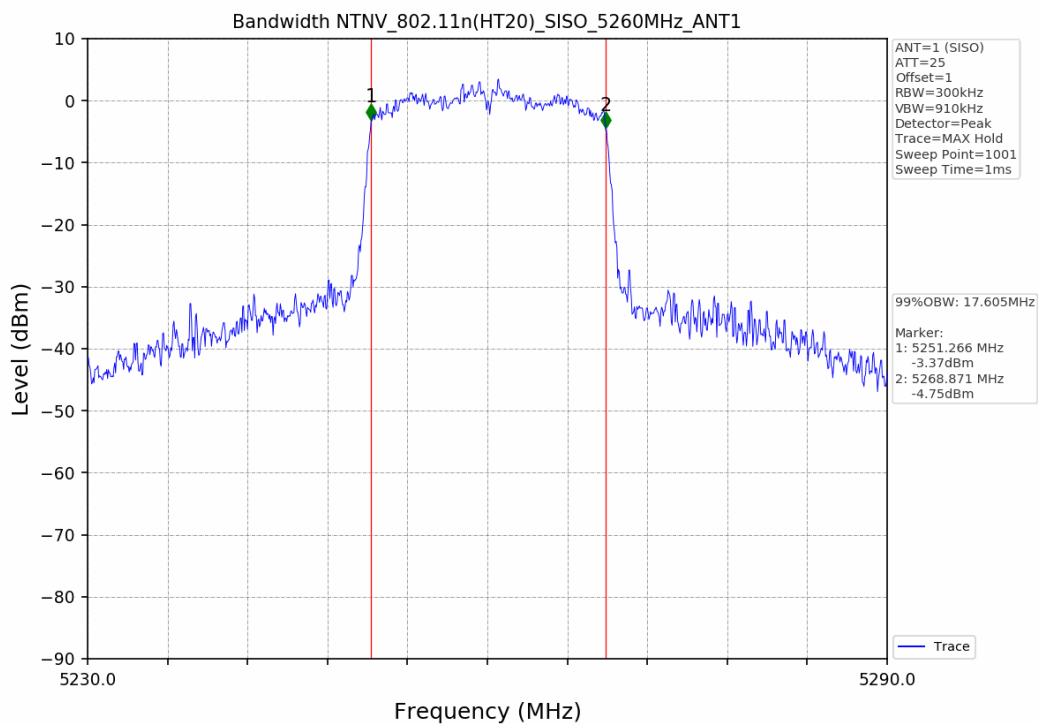
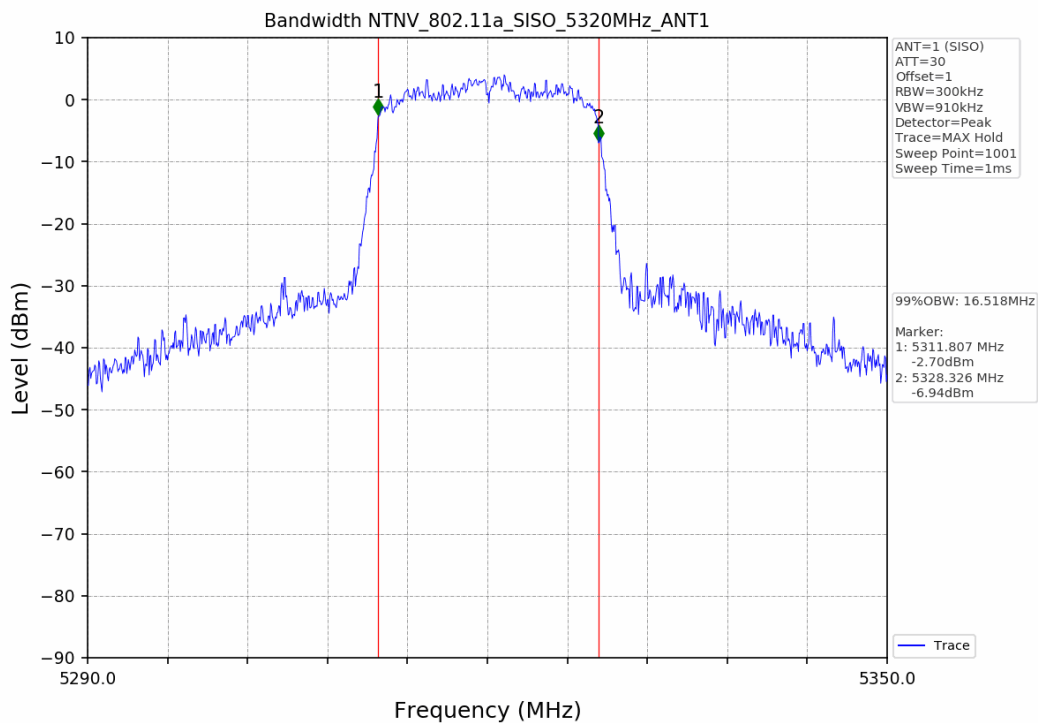


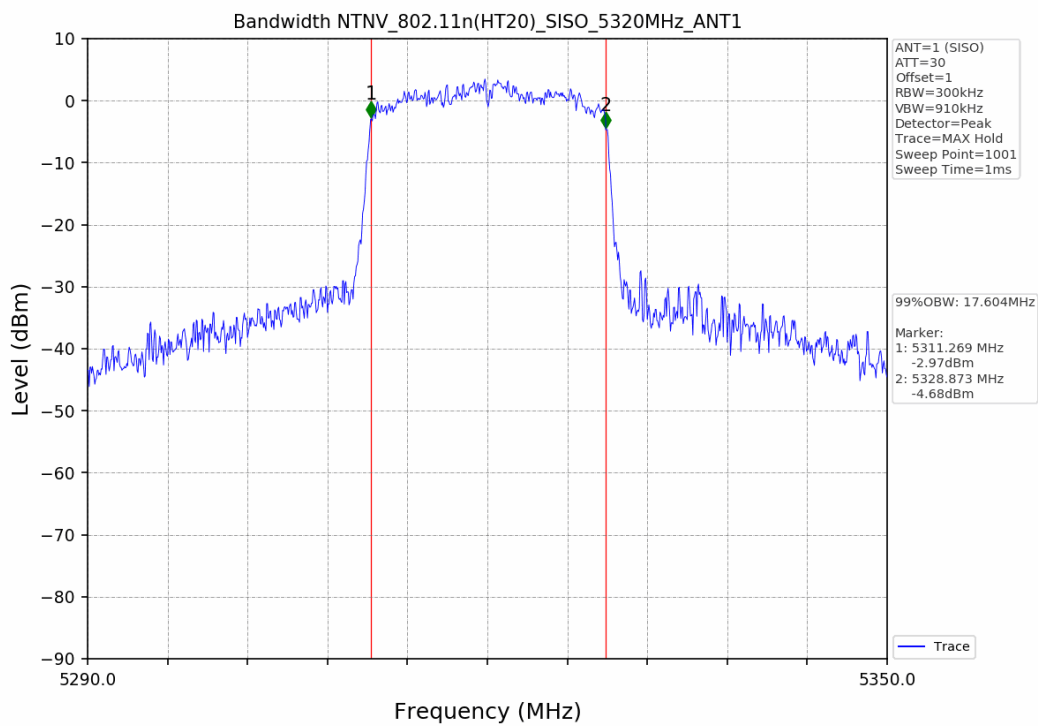
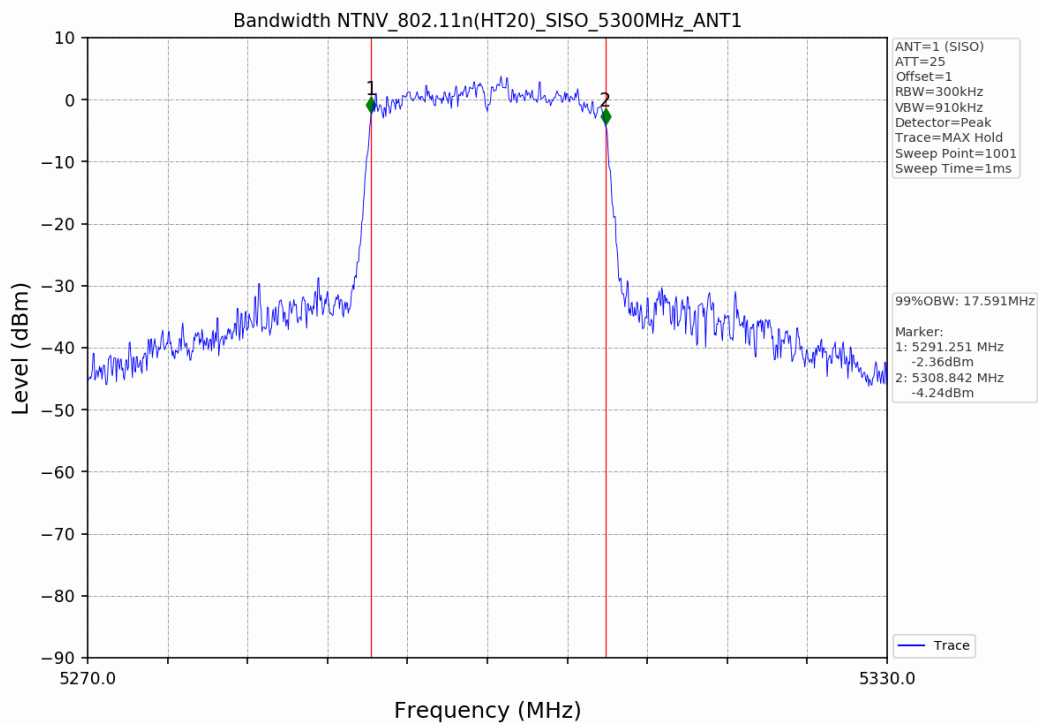


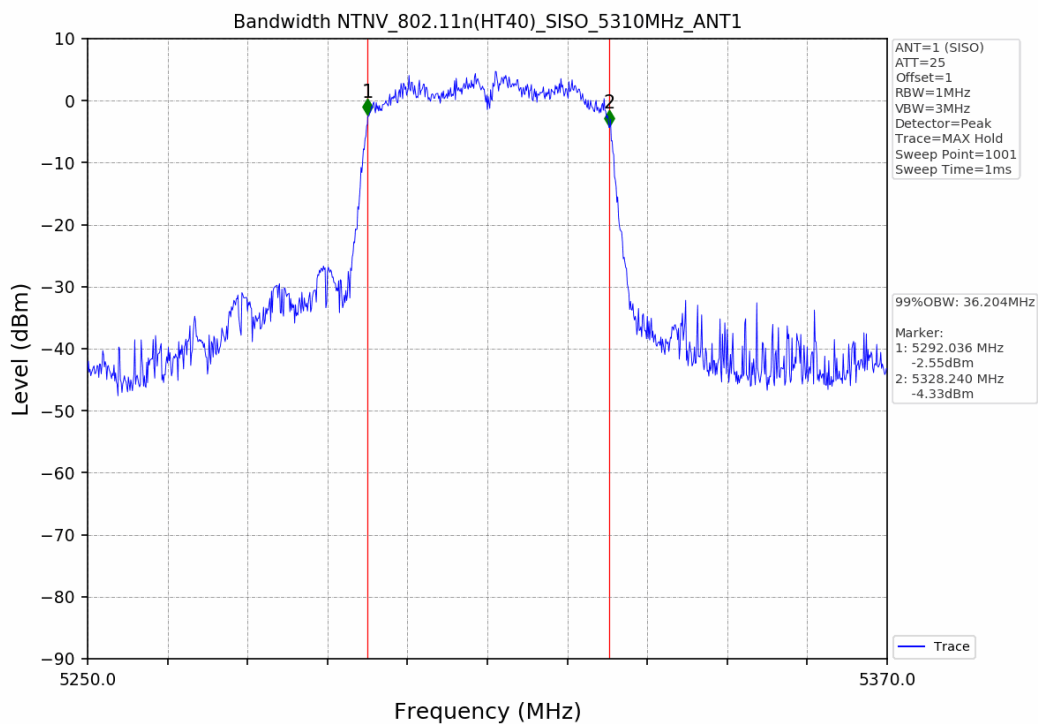
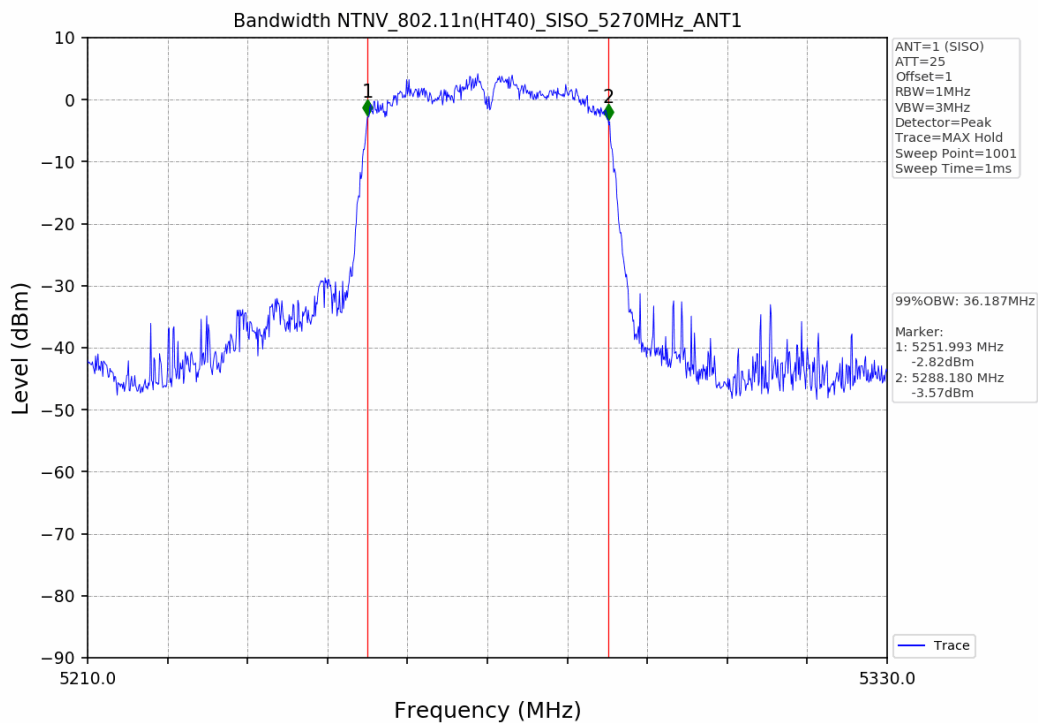


1.3 Test Graph - 99% Occupied Bandwidth







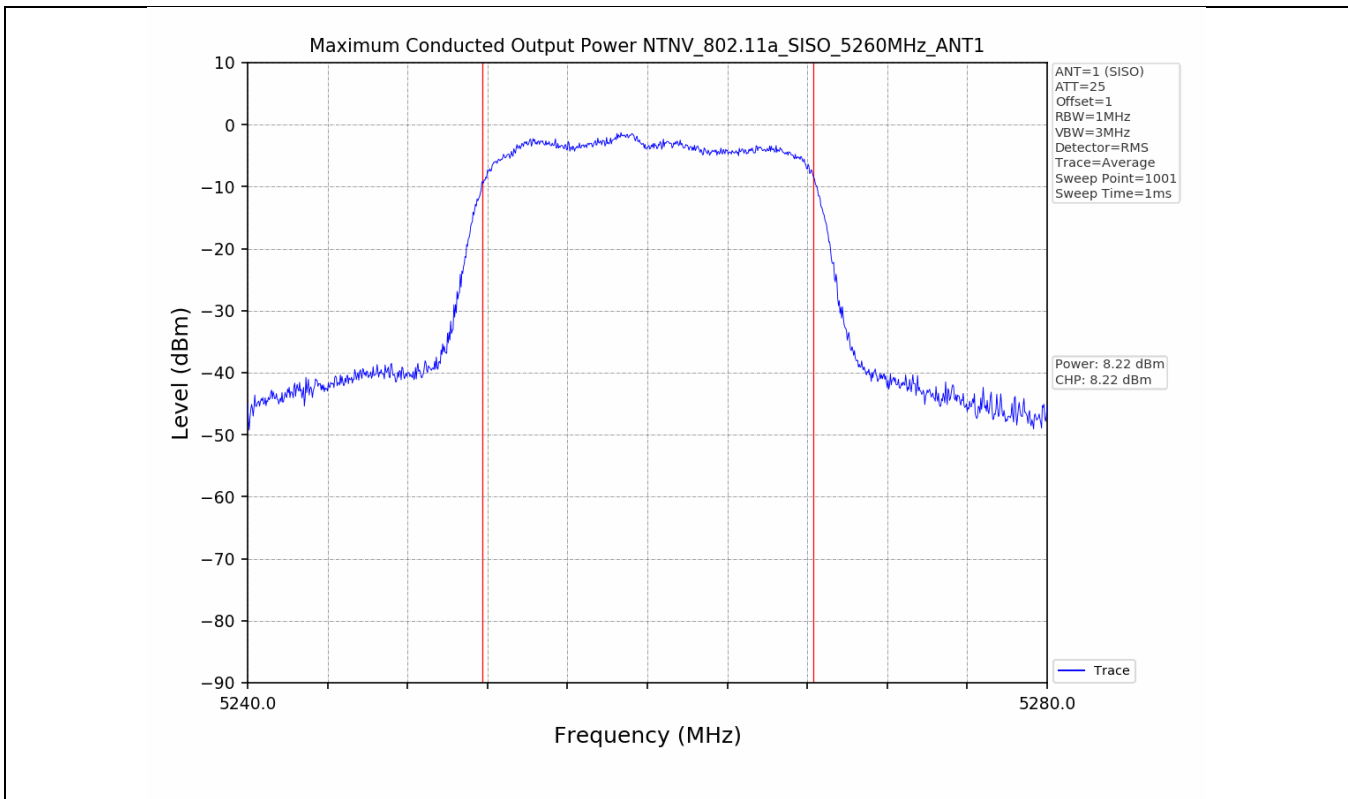


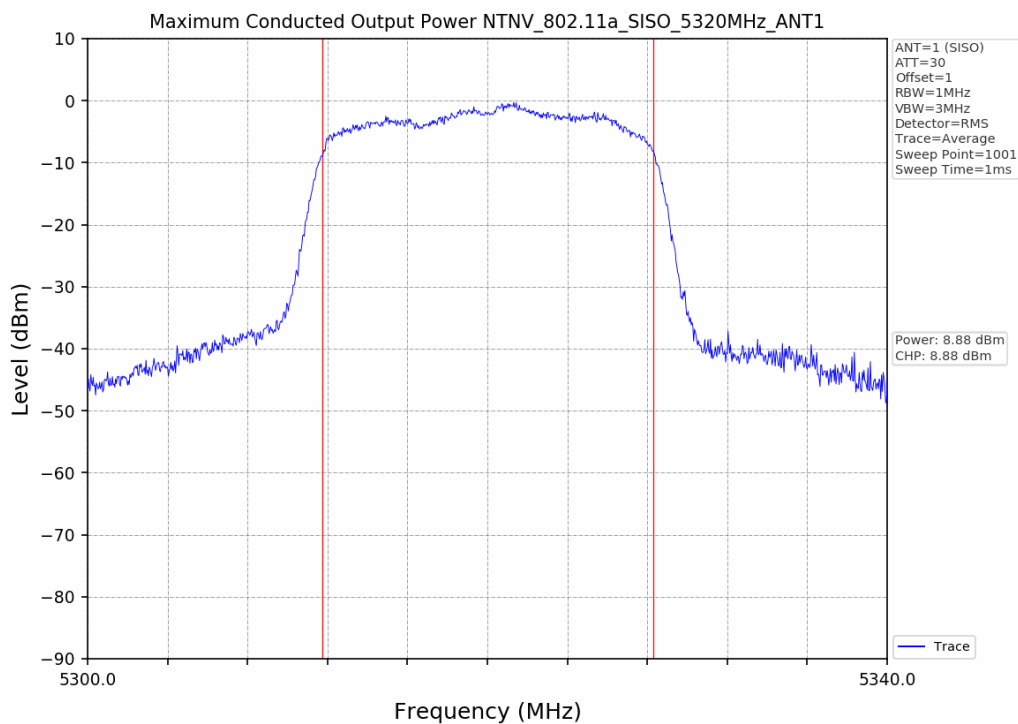
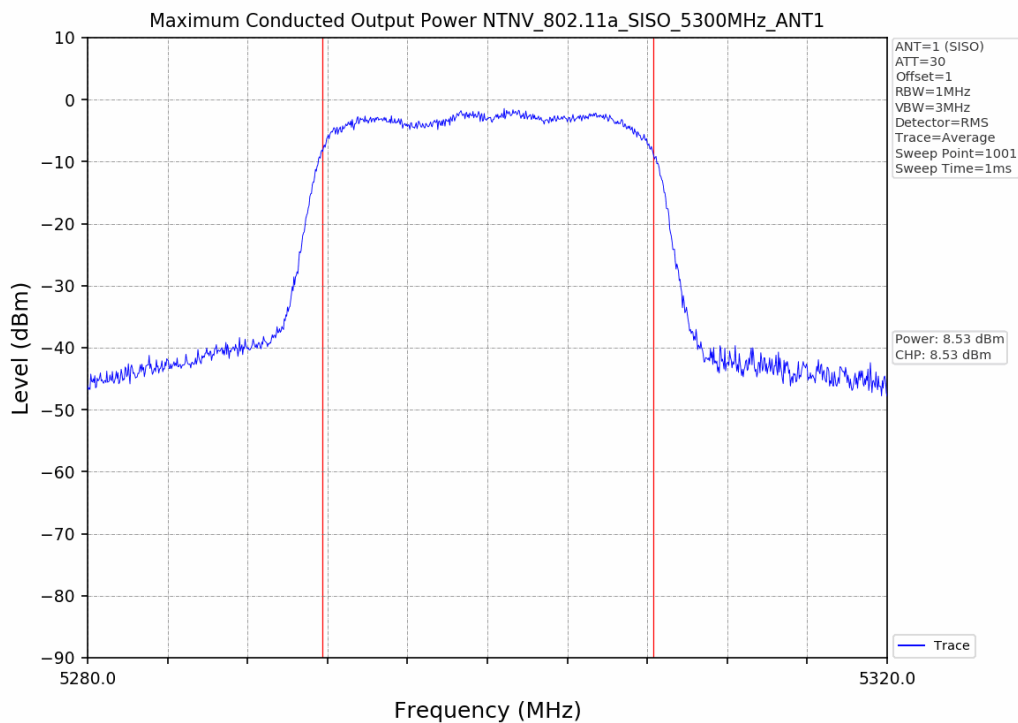
2. Maximum Conducted Output Power

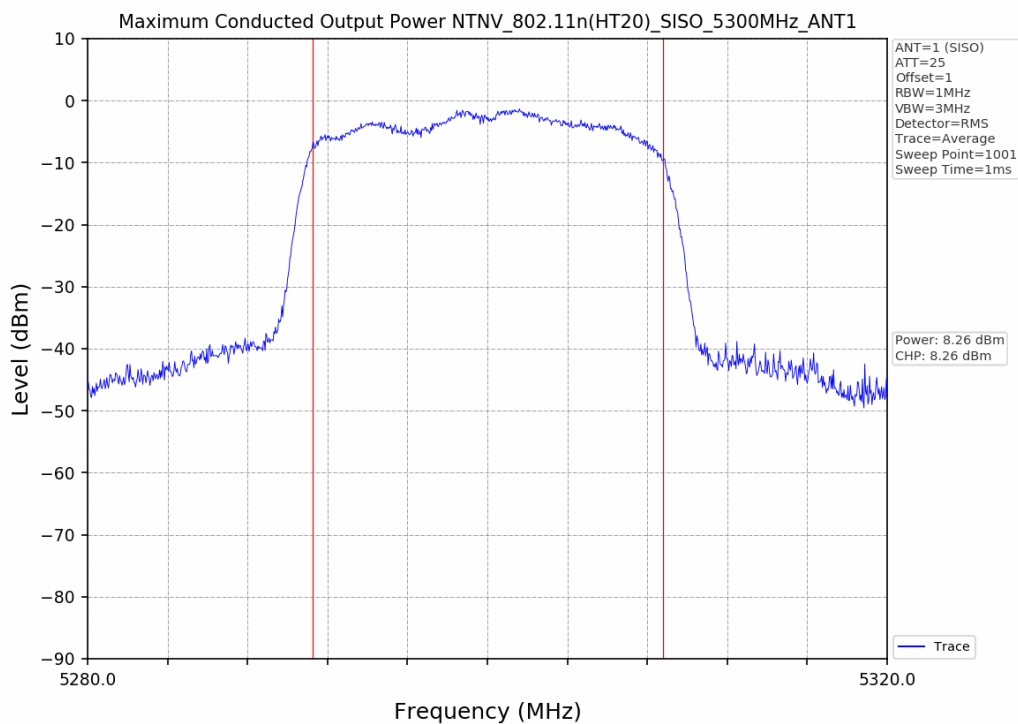
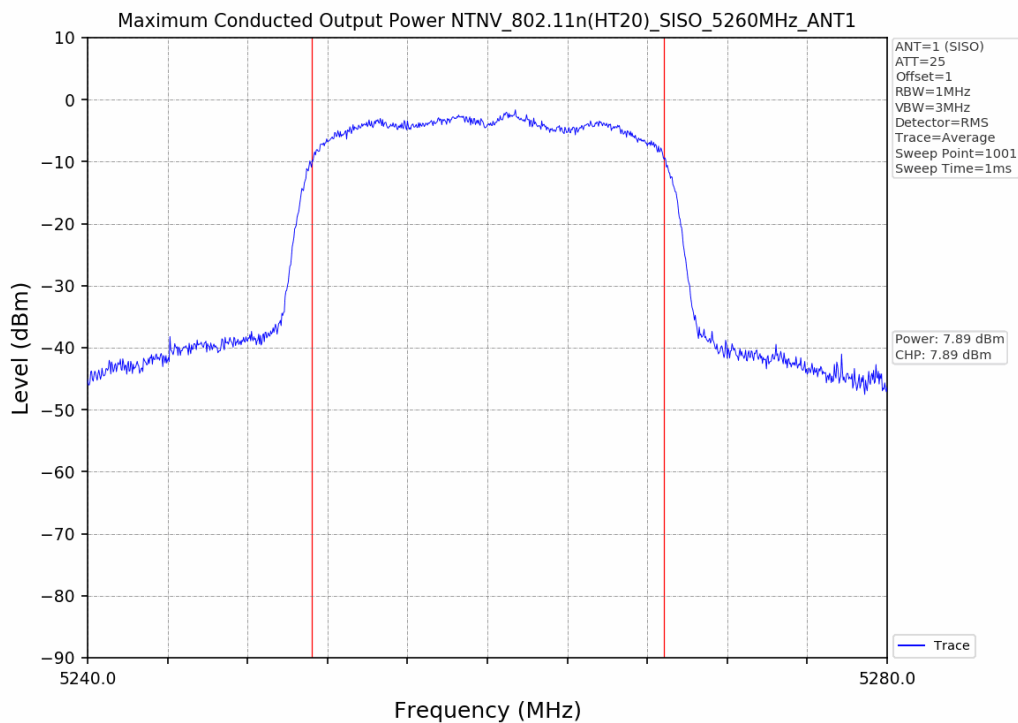
2.1 Test Result

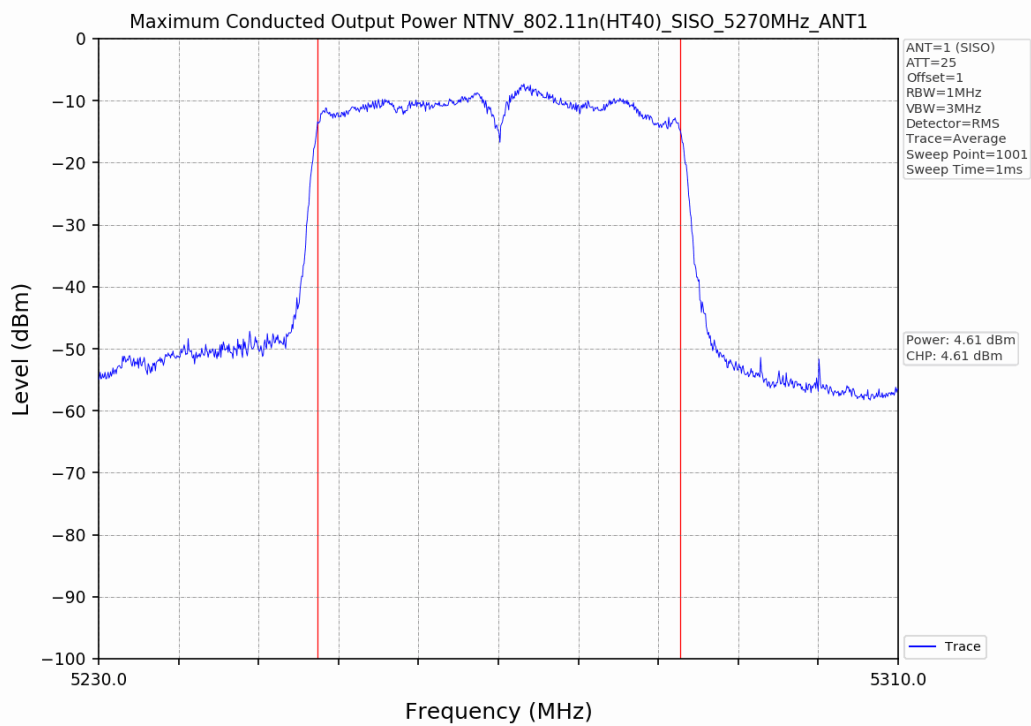
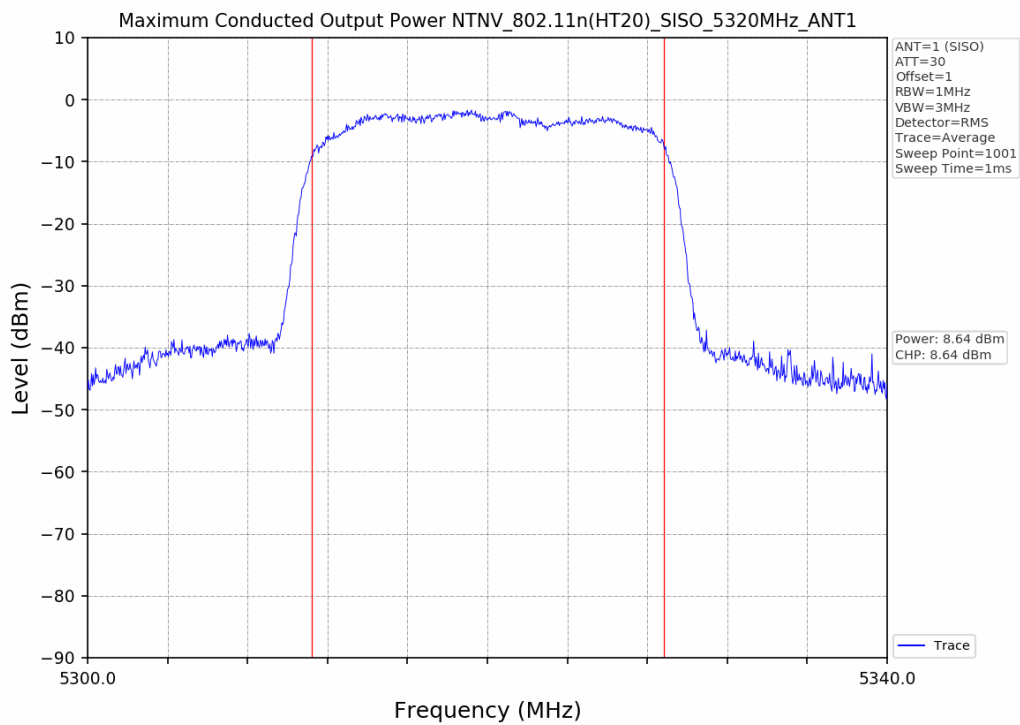
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1		
802.11a	5260	SISO	8.22	≤ 23.68	PASS
	5300	SISO	8.53	≤ 23.70	PASS
	5320	SISO	8.88	≤ 23.68	PASS
802.11n(HT20)	5260	SISO	7.89	≤ 23.77	PASS
	5300	SISO	8.26	≤ 23.80	PASS
	5320	SISO	8.64	≤ 23.80	PASS
802.11n(HT40)	5270	SISO	4.61	≤ 23.98	PASS
	5310	SISO	5.17	≤ 23.98	PASS

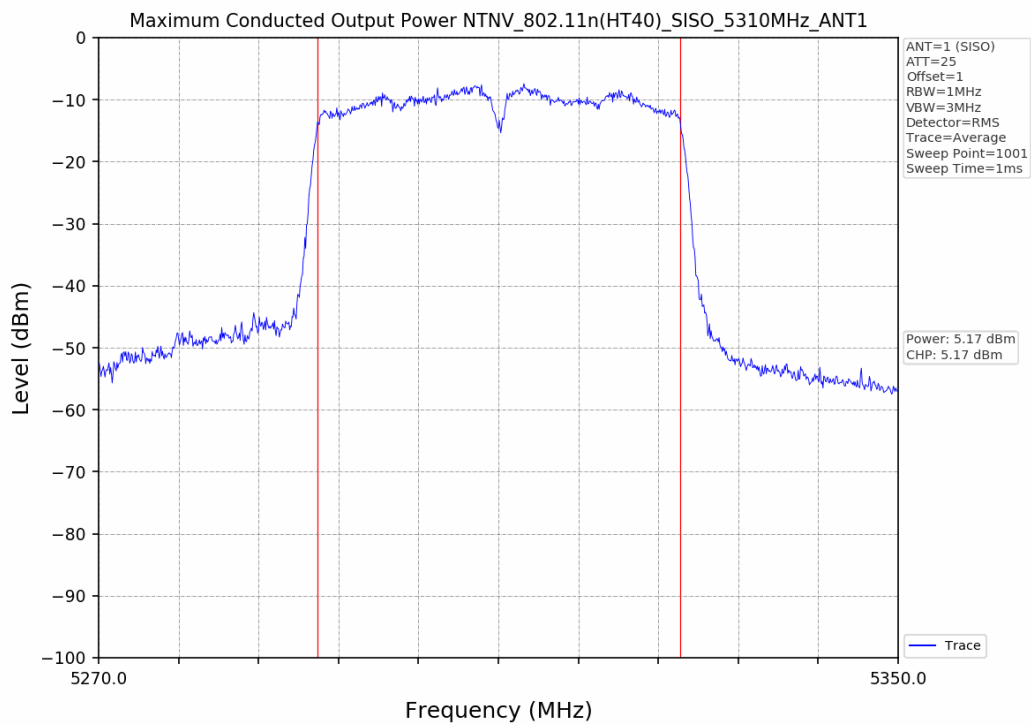
2.2 Test Graph









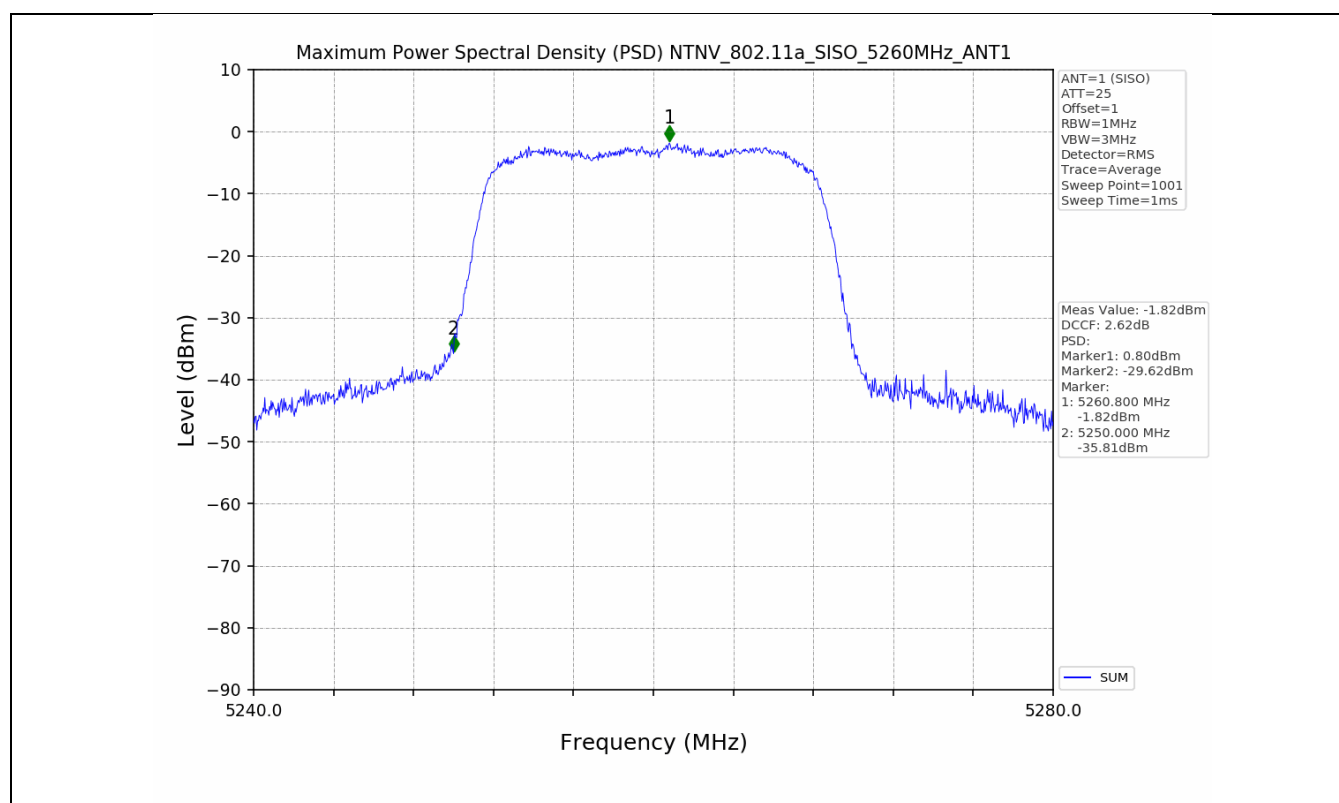


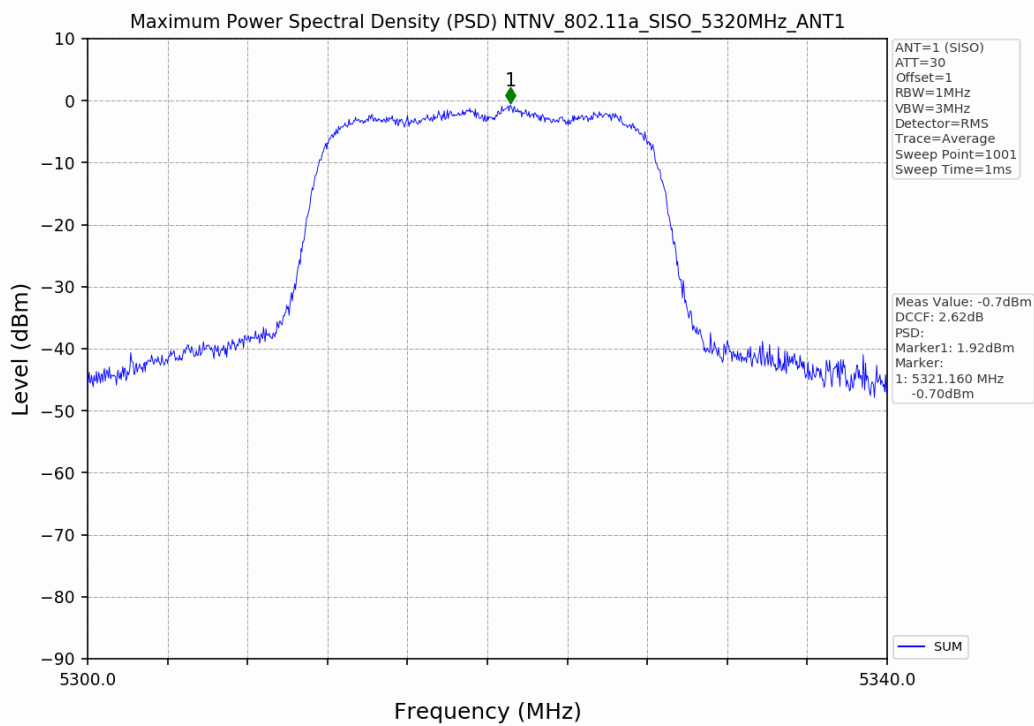
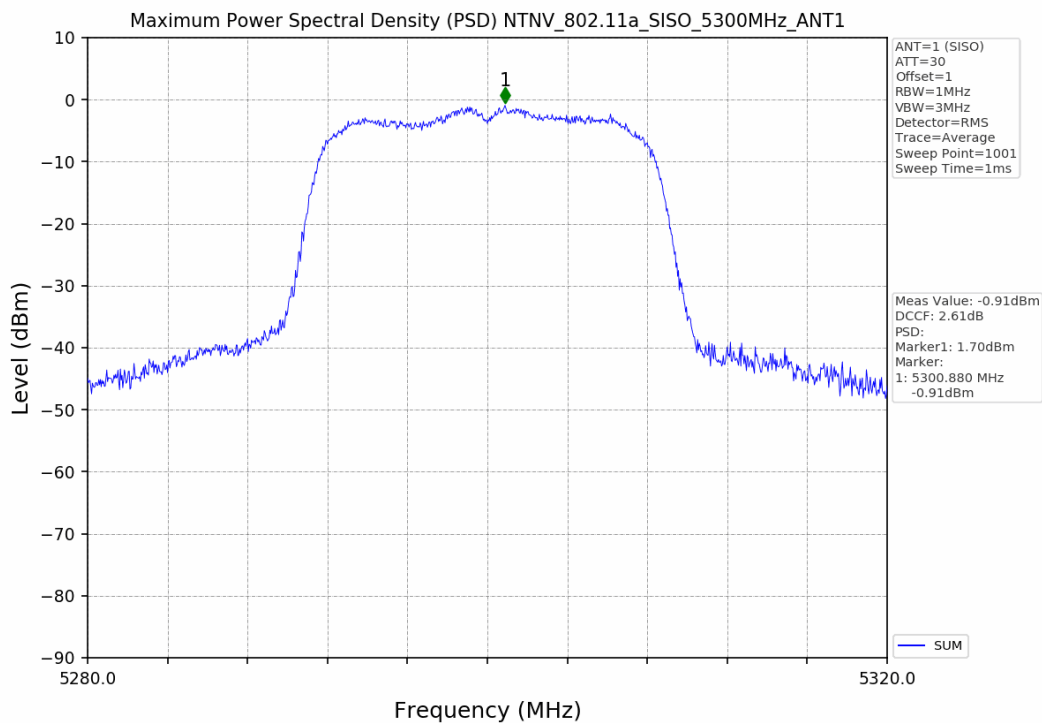
3. Maximum Power Spectral Density (PSD)

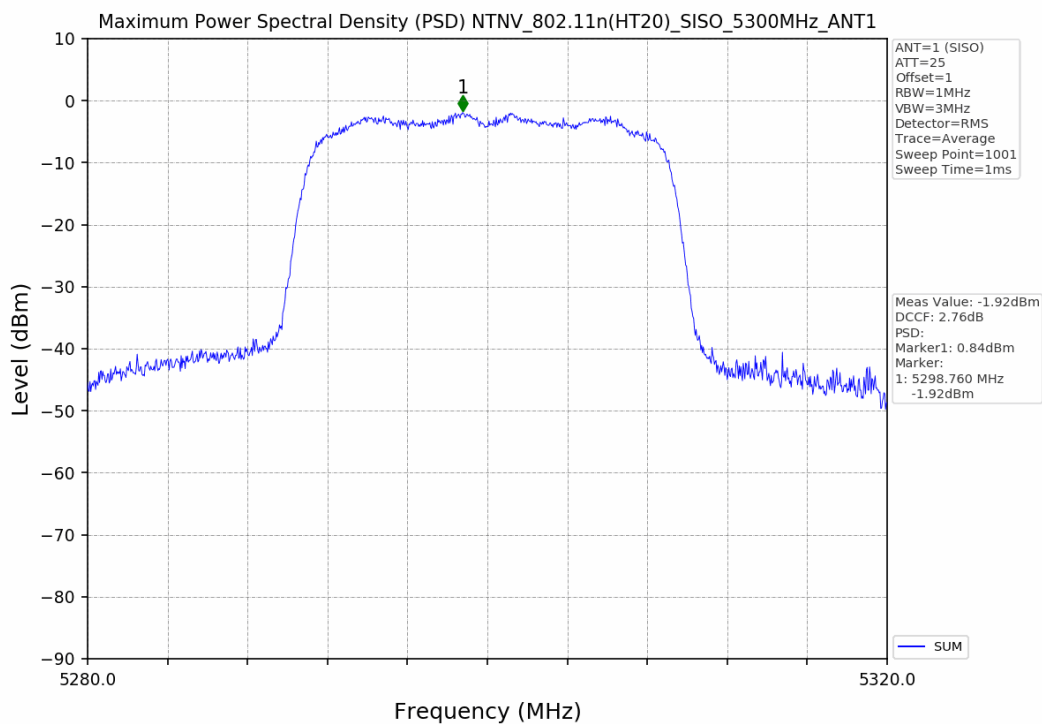
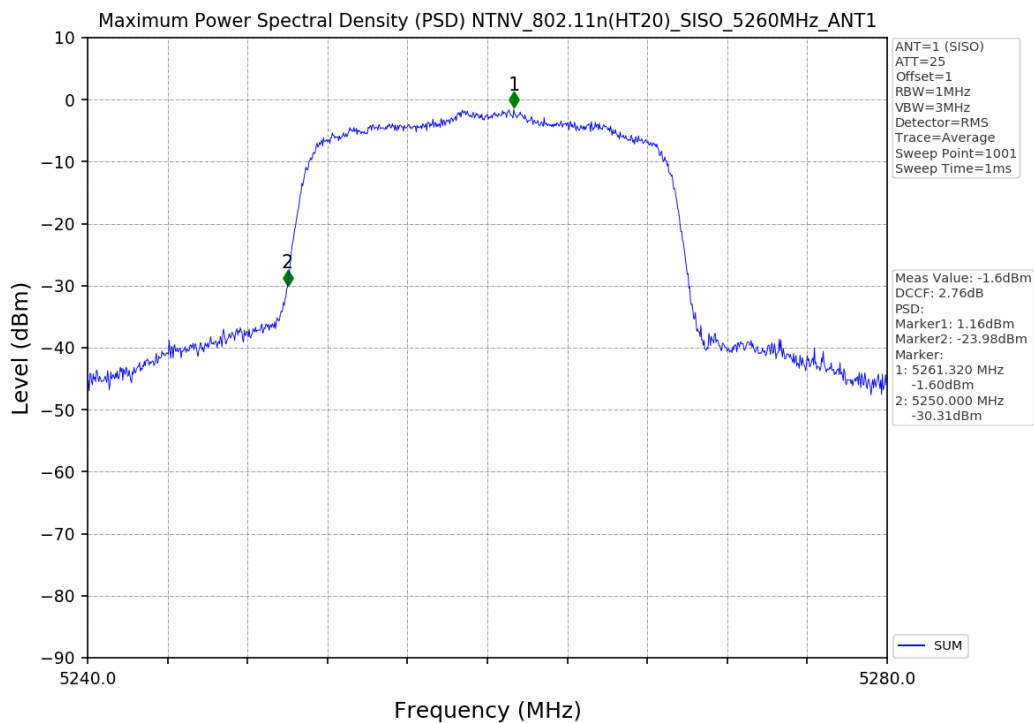
3.1 Test Result

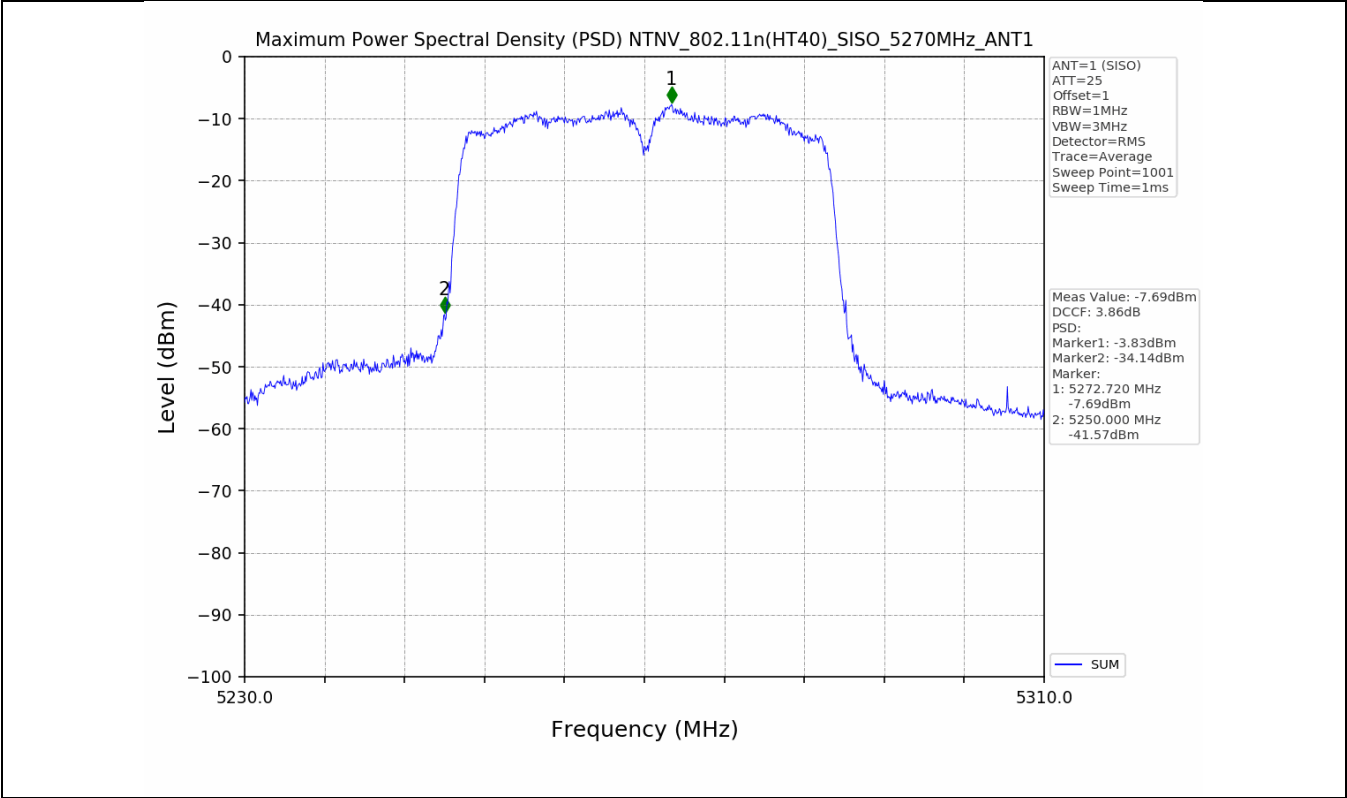
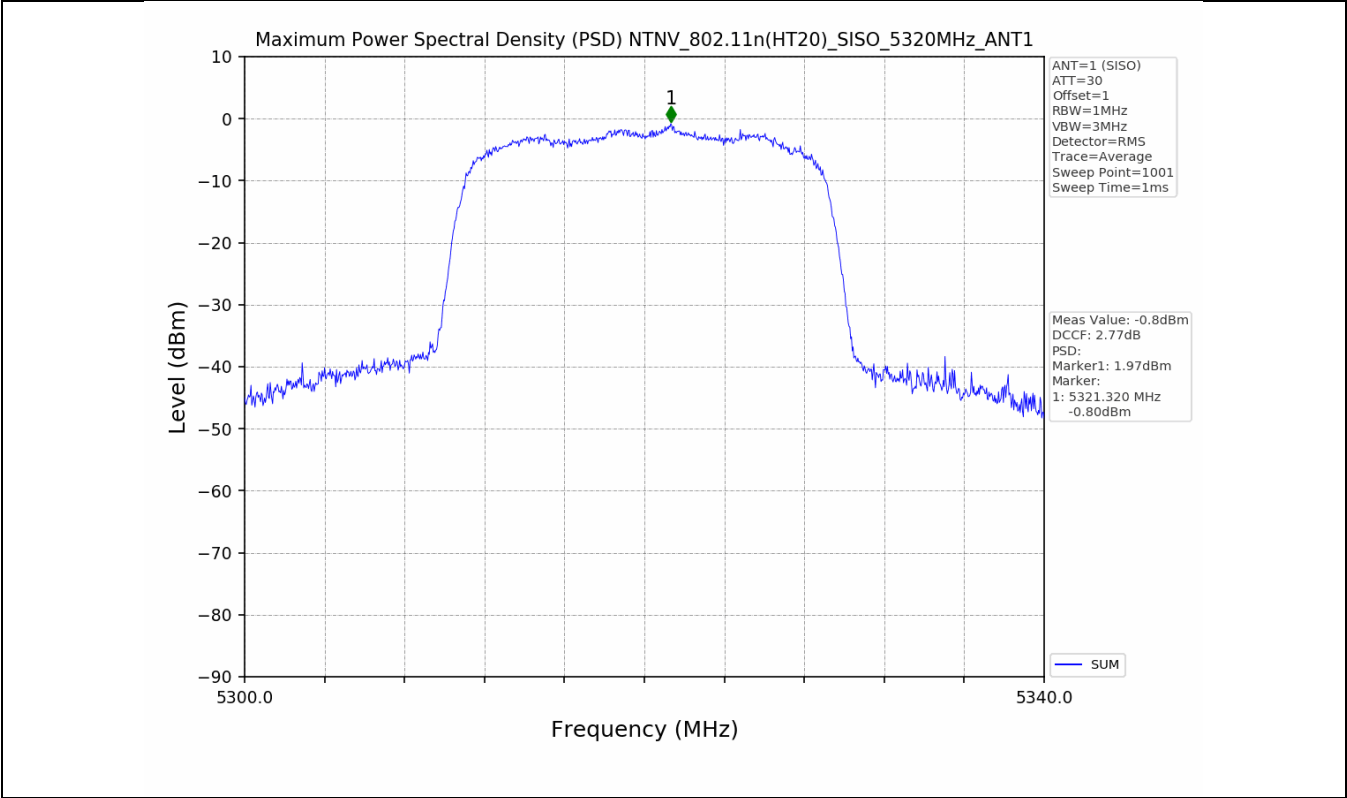
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)	Limits (dBm/MHz)	Verdict
			Ant 1		
802.11a	5260	SISO	0.80	≤11	PASS
	5300	SISO	1.70	≤11	PASS
	5320	SISO	1.92	≤11	PASS
802.11n(HT20)	5260	SISO	1.16	≤11	PASS
	5300	SISO	0.84	≤11	PASS
	5320	SISO	1.97	≤11	PASS
802.11n(HT40)	5270	SISO	-3.83	≤11	PASS
	5310	SISO	-3.53	≤11	PASS

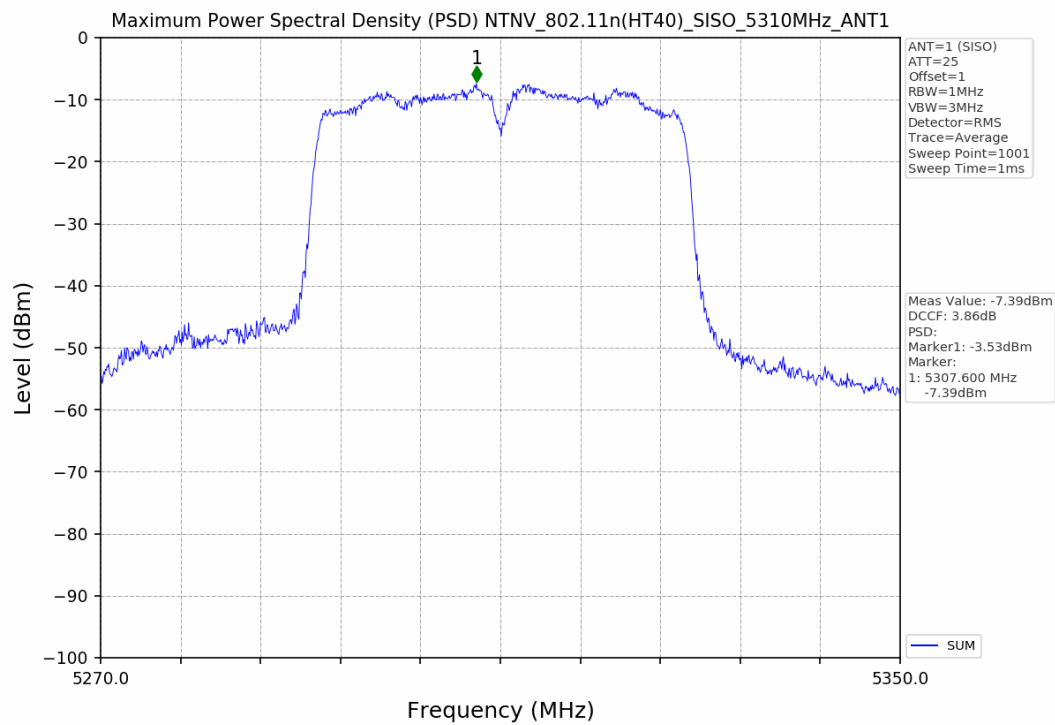
3.2 Test Graph











4. Frequency Stability

4.1 Test Result

Reference Frequency: 802.11a channel=52 frequency=5260MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
5.0	-30	45.2	7.78	Within the band of operation	Pass
	-20	66.5	11.76		
	-10	79.3	14.32		
	0	83.1	15.89		
	10	83.6	16.03		
	20	65.5	11.83		
	30	52.4	10.08		
	40	56.7	10.56		
	50	50.3	9.42		
5.5	25	90.4	16.88	Within the band of operation	Pass
4.5	25	45.6	8.92		