

Test Data for 2.4G_WIFI

Product Name: WIFI module

Test Model: ALX850B

Appendix for 15.247

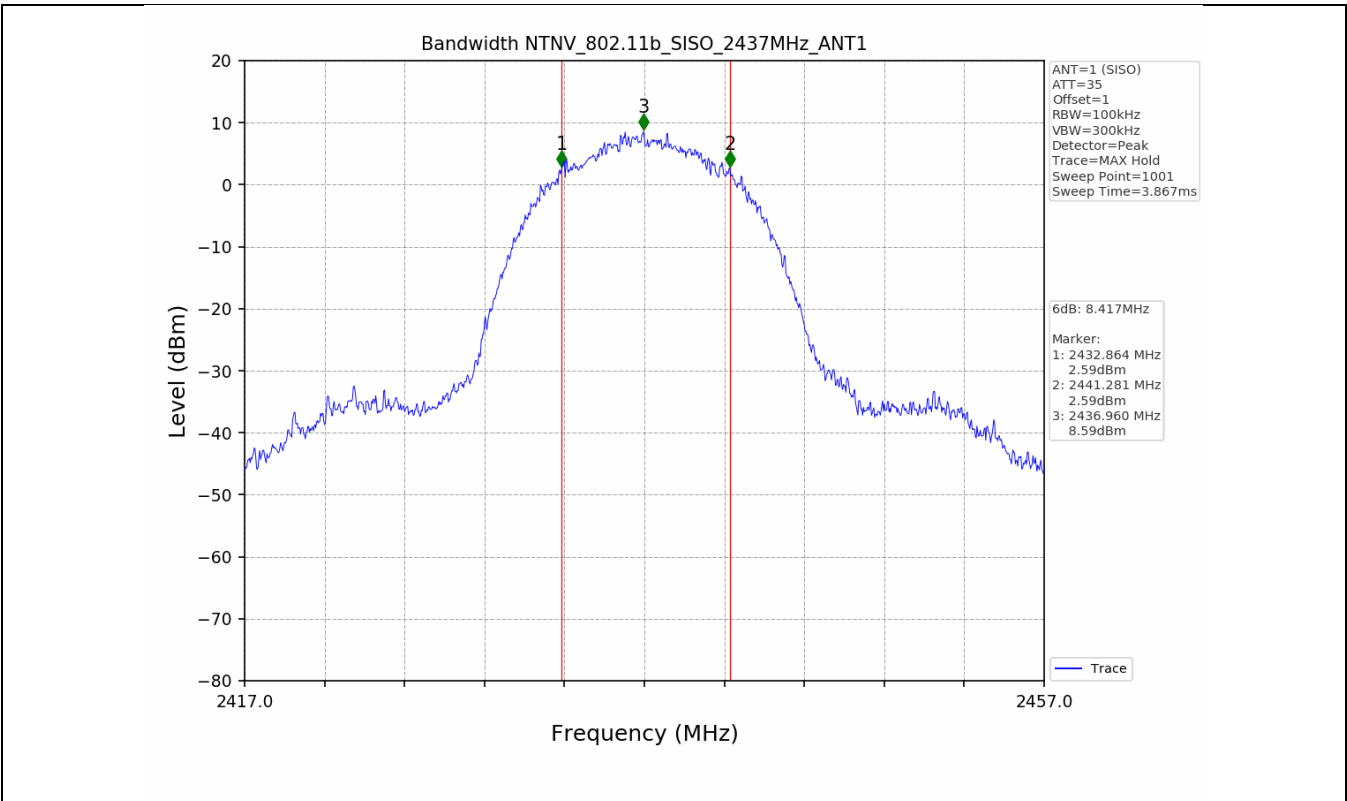
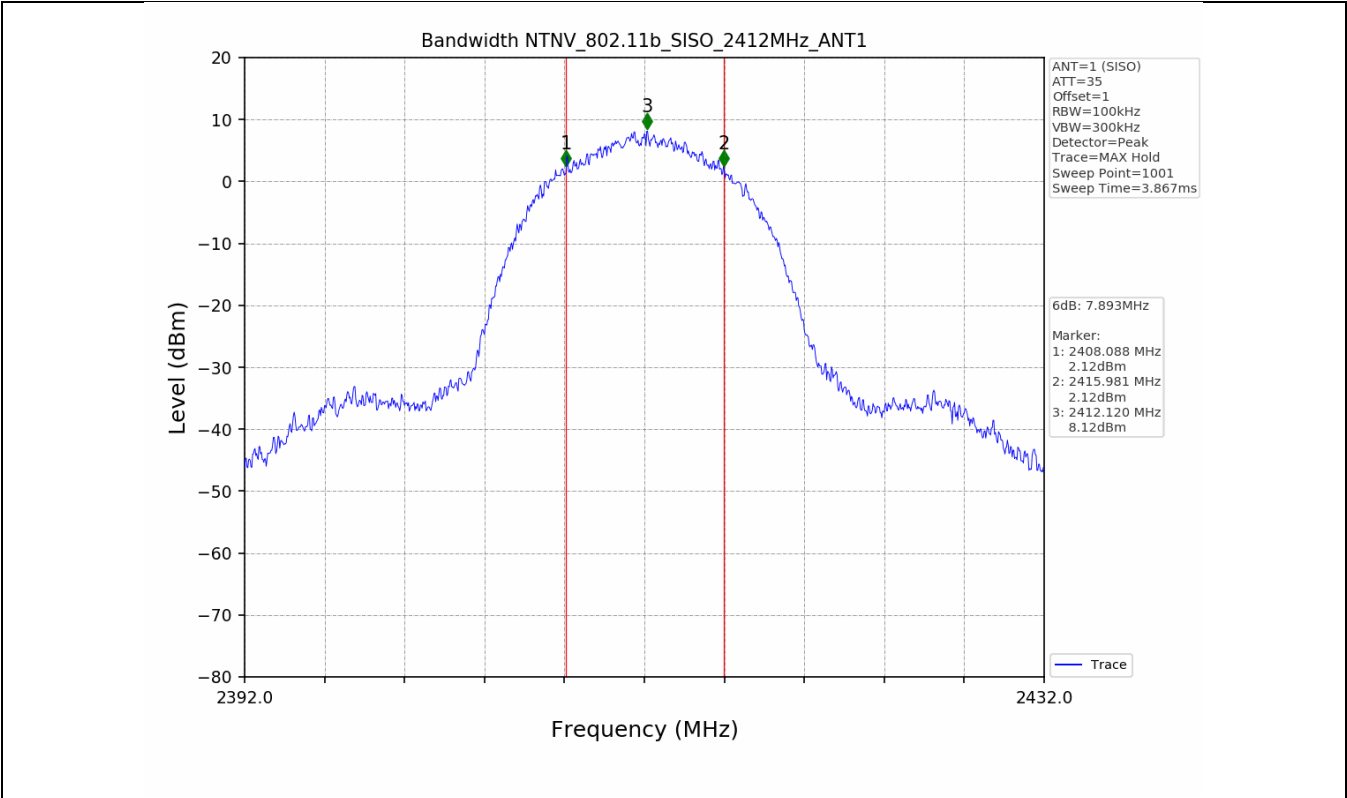
1. Bandwidth

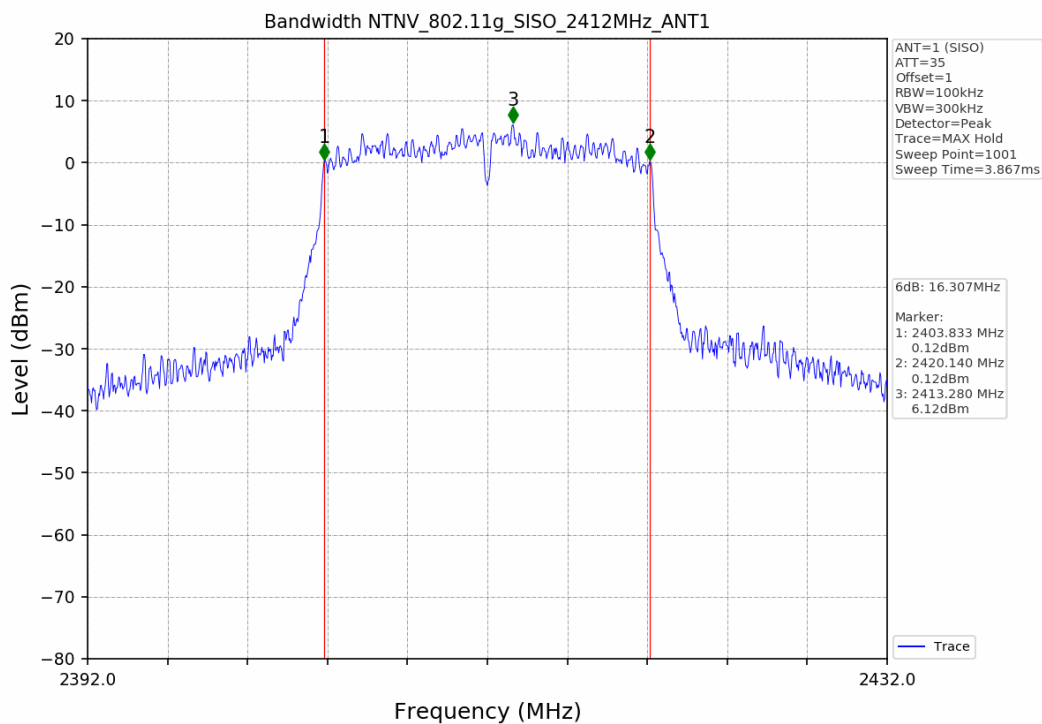
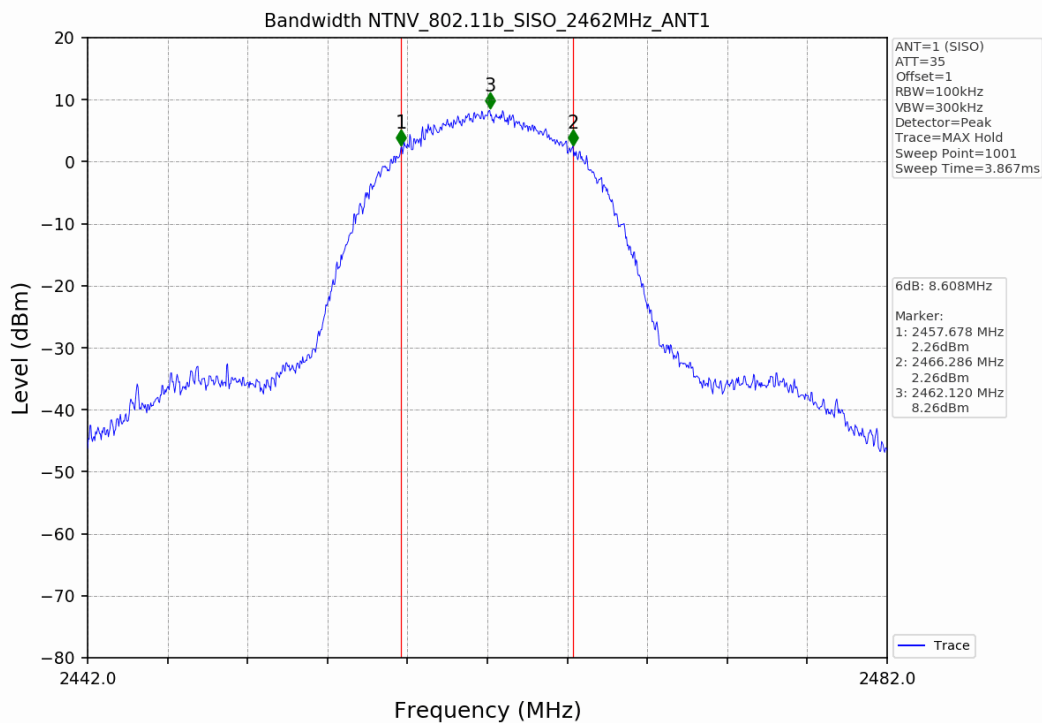
1.1 Test Result

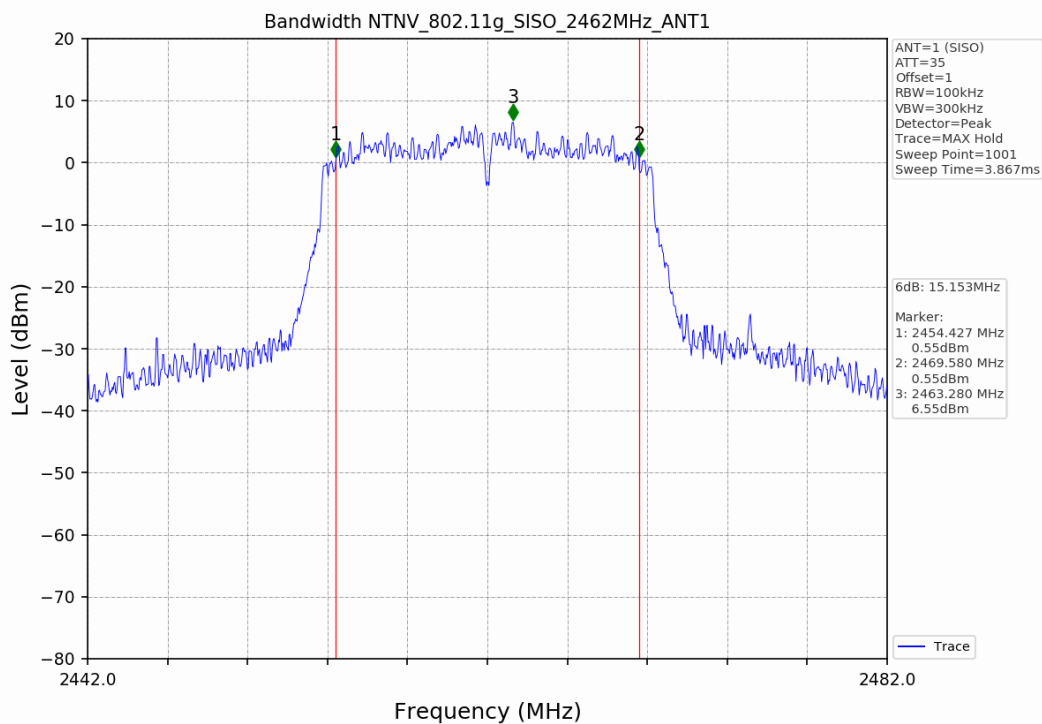
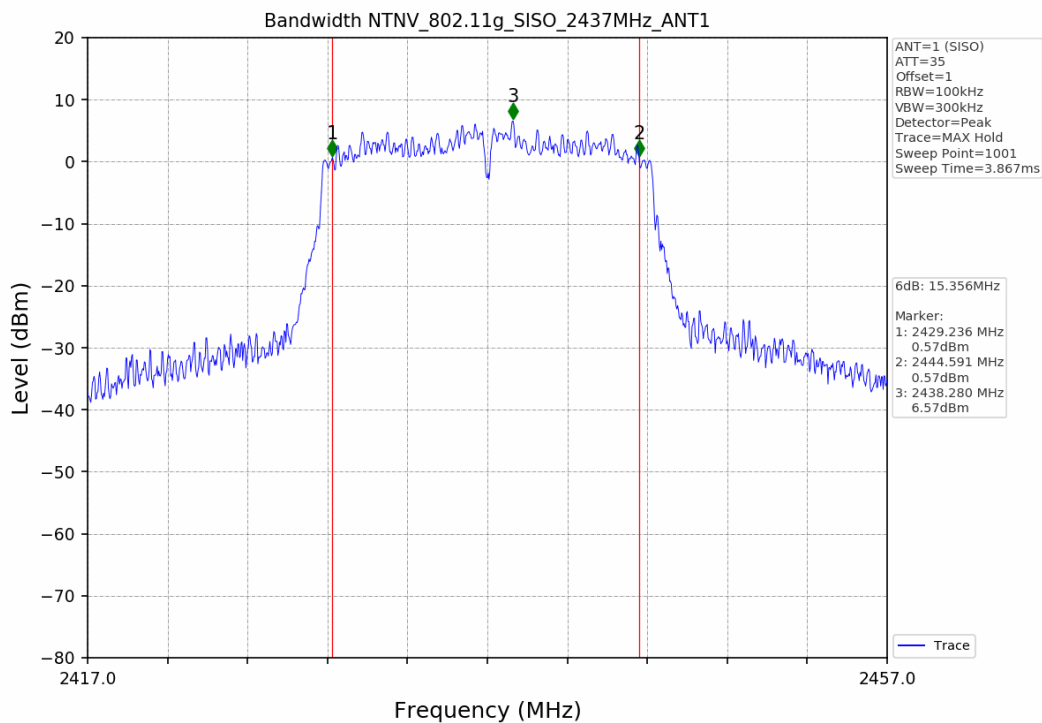
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	7.893	≥0.5	PASS
	2437	SISO	1	8.417	≥0.5	PASS
	2462	SISO	1	8.608	≥0.5	PASS
802.11g	2412	SISO	1	16.307	≥0.5	PASS
	2437	SISO	1	15.356	≥0.5	PASS
	2462	SISO	1	15.153	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	15.760	≥0.5	PASS
	2437	SISO	1	16.841	≥0.5	PASS
	2462	SISO	1	16.369	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	35.184	≥0.5	PASS
	2437	SISO	1	35.162	≥0.5	PASS
	2452	SISO	1	35.172	≥0.5	PASS

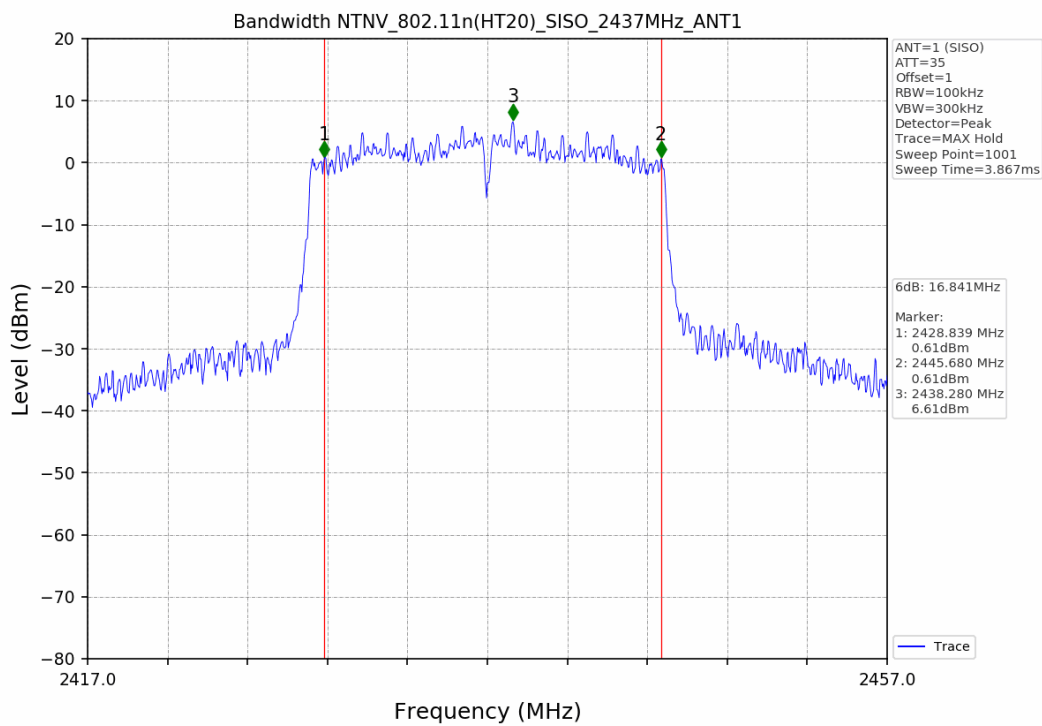
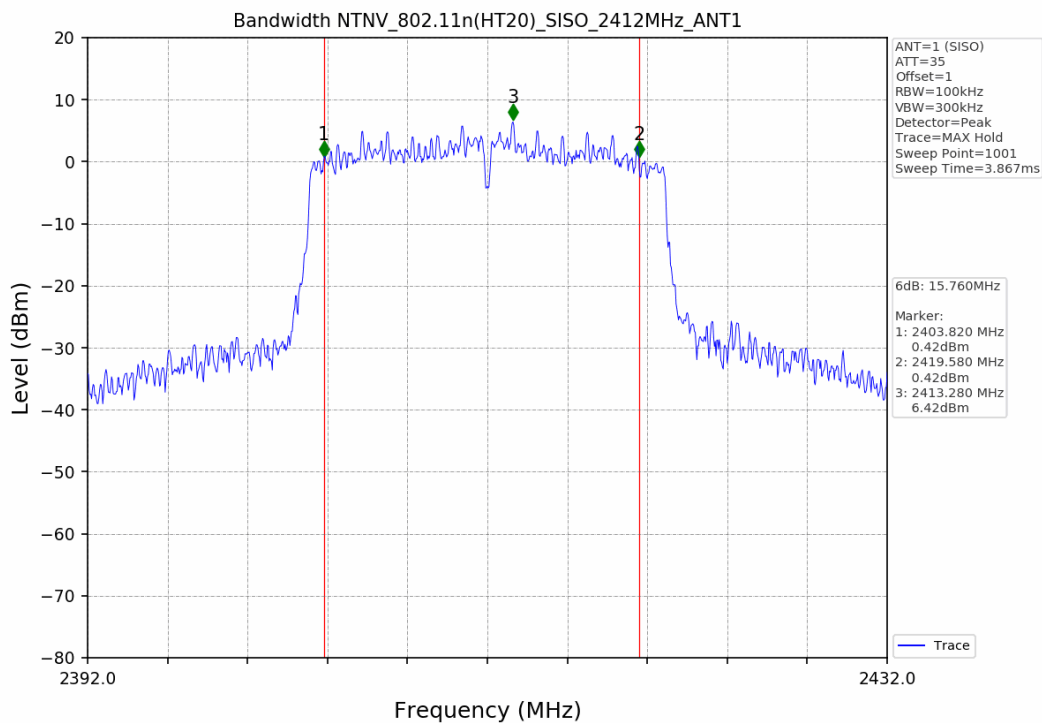
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	12.045	Only for Report Use
	2437	SISO	1	12.086	Only for Report Use
	2462	SISO	1	12.054	Only for Report Use
802.11g	2412	SISO	1	16.506	Only for Report Use
	2437	SISO	1	16.501	Only for Report Use
	2462	SISO	1	16.542	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.632	Only for Report Use
	2437	SISO	1	17.610	Only for Report Use
	2462	SISO	1	17.621	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.264	Only for Report Use
	2437	SISO	1	36.285	Only for Report Use
	2452	SISO	1	36.324	Only for Report Use

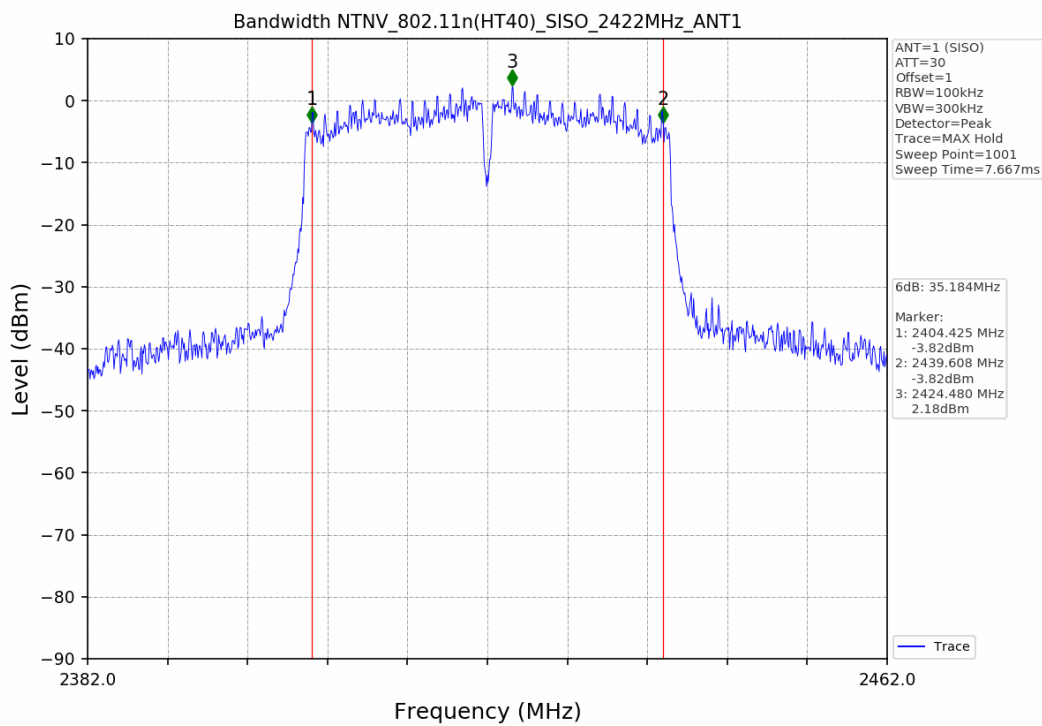
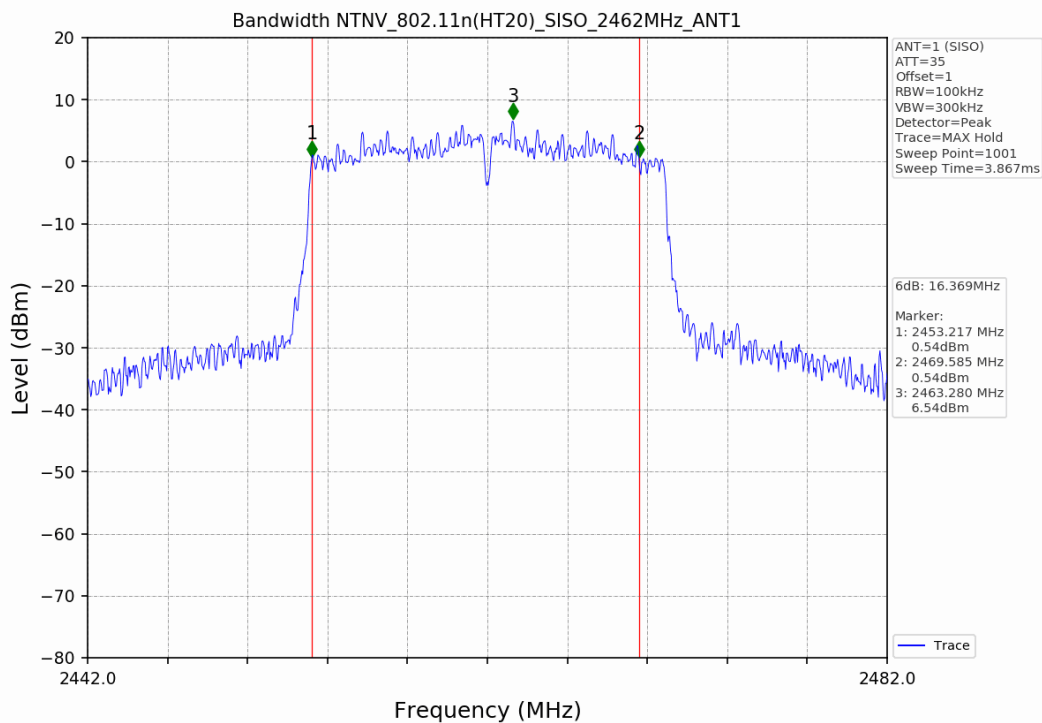
1.2 Test Graph - 6dB Bandwidth

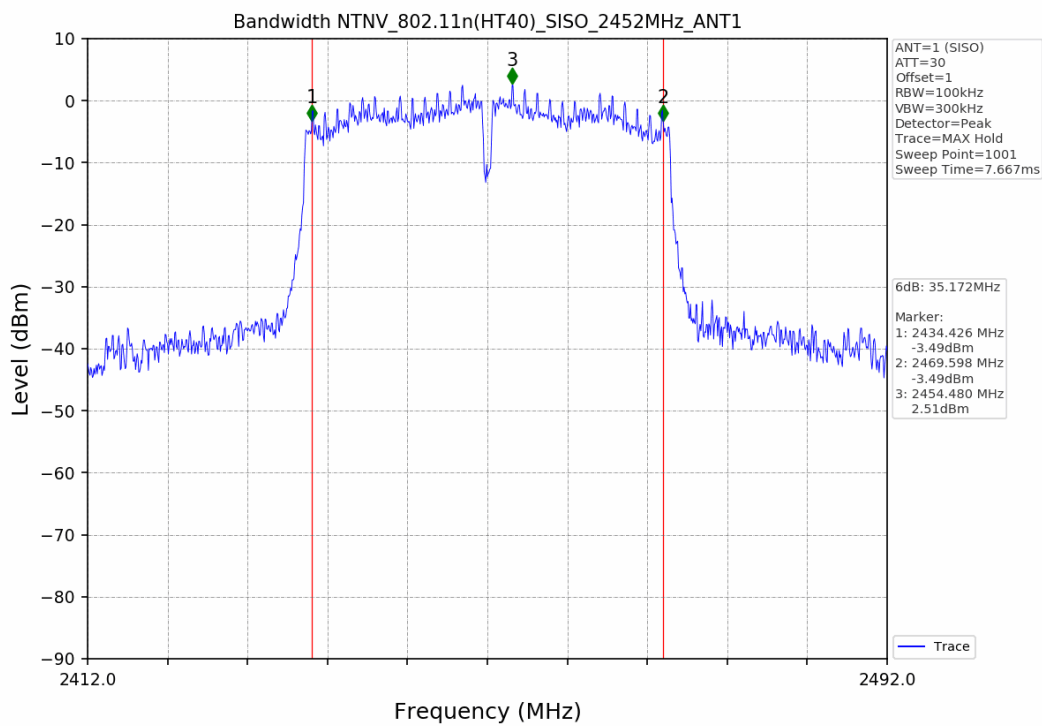
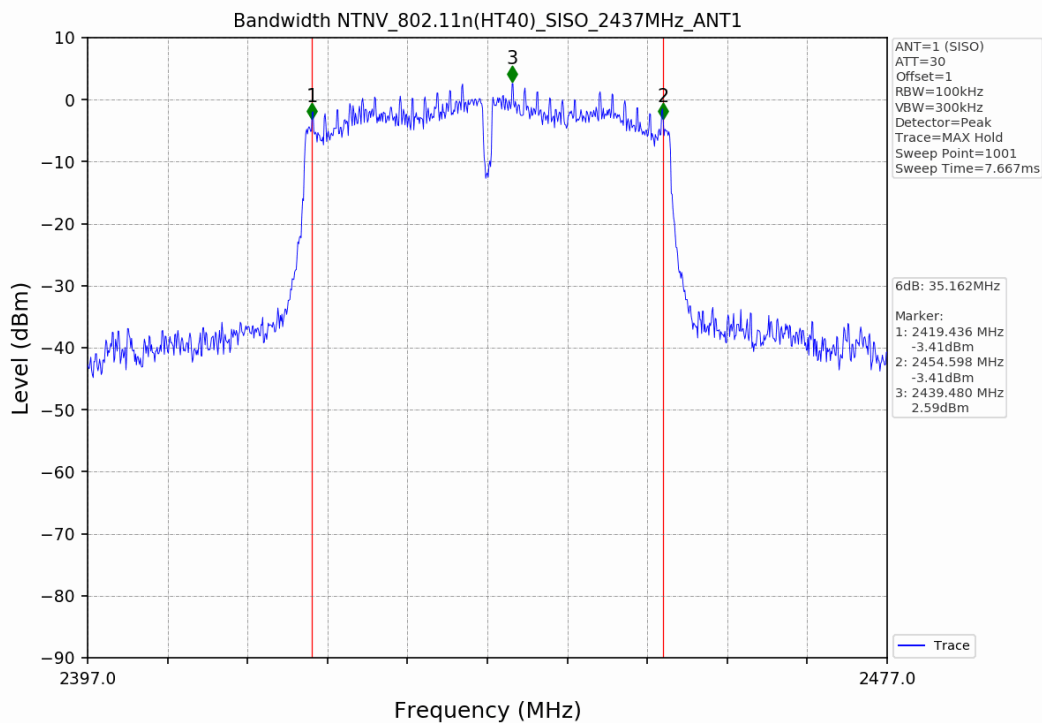




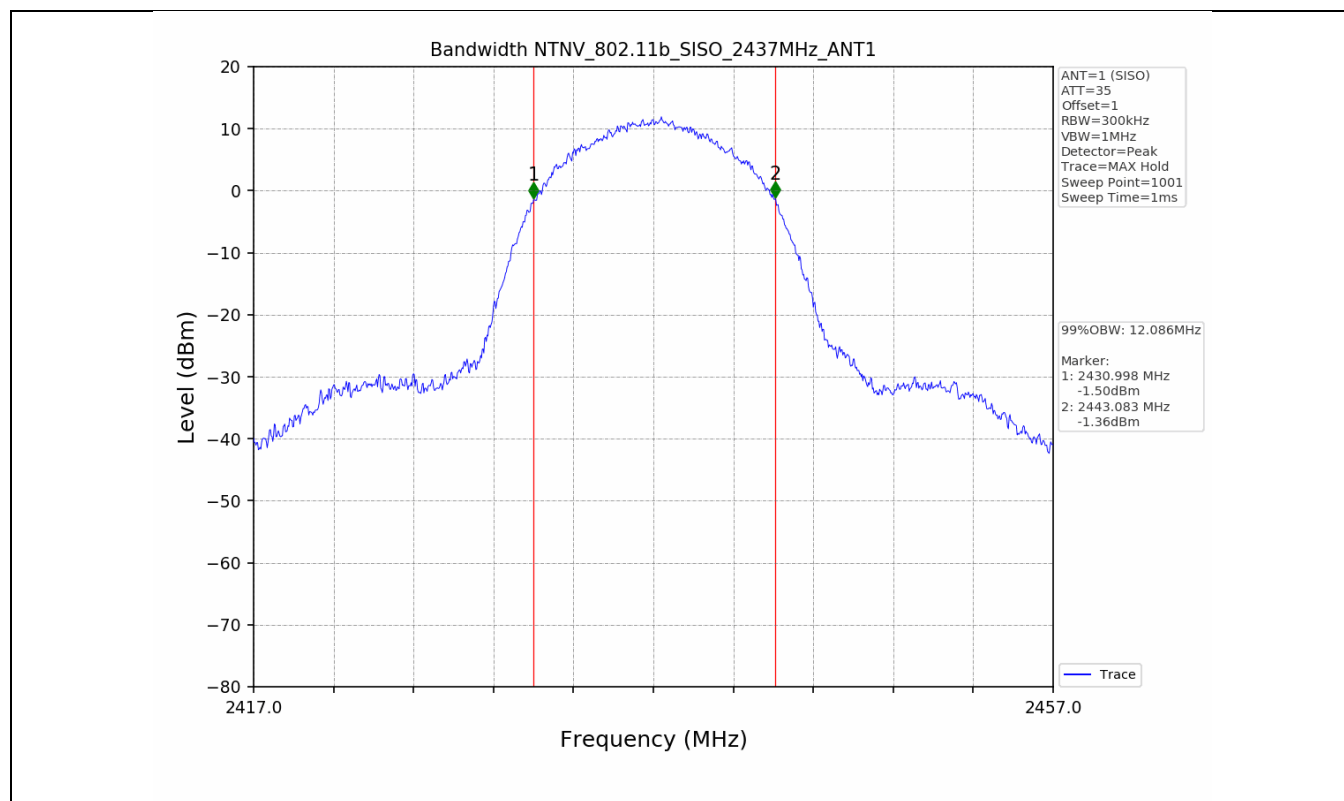
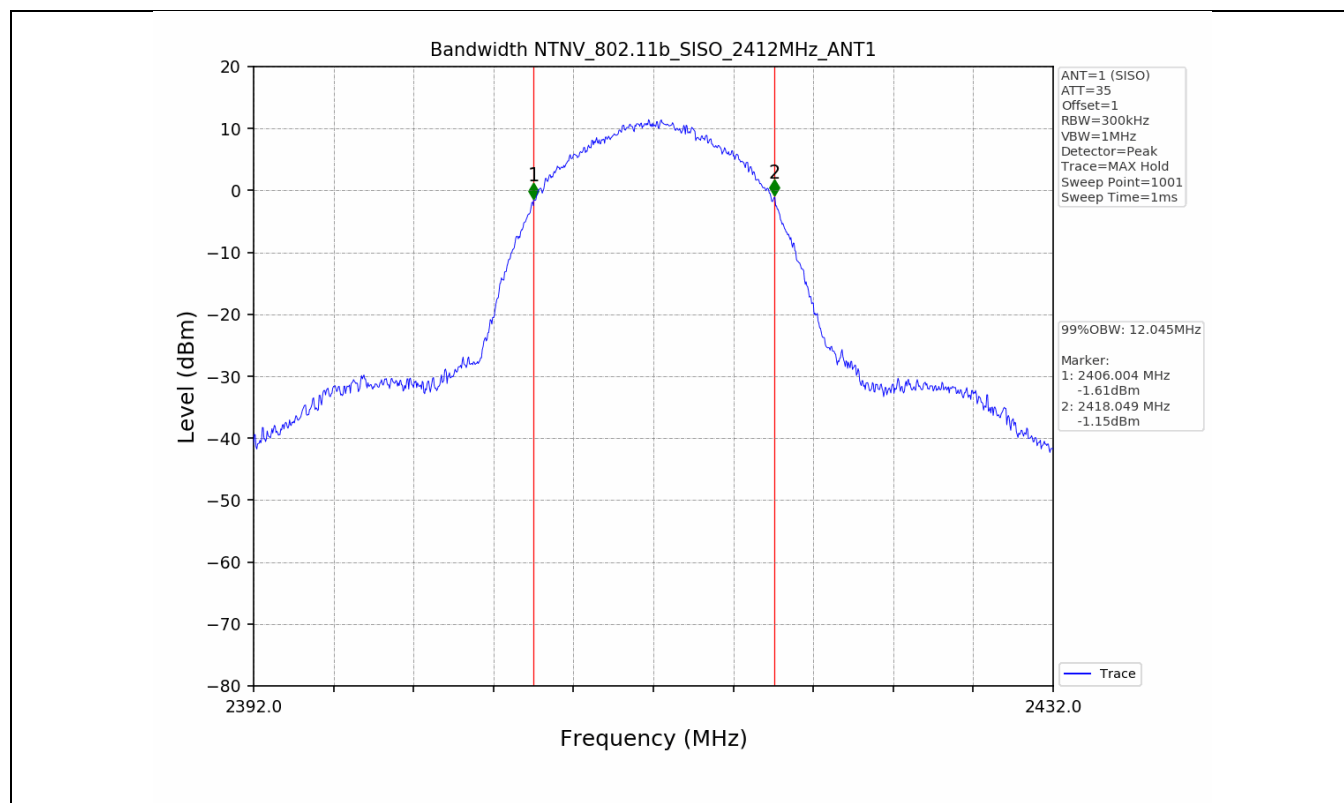


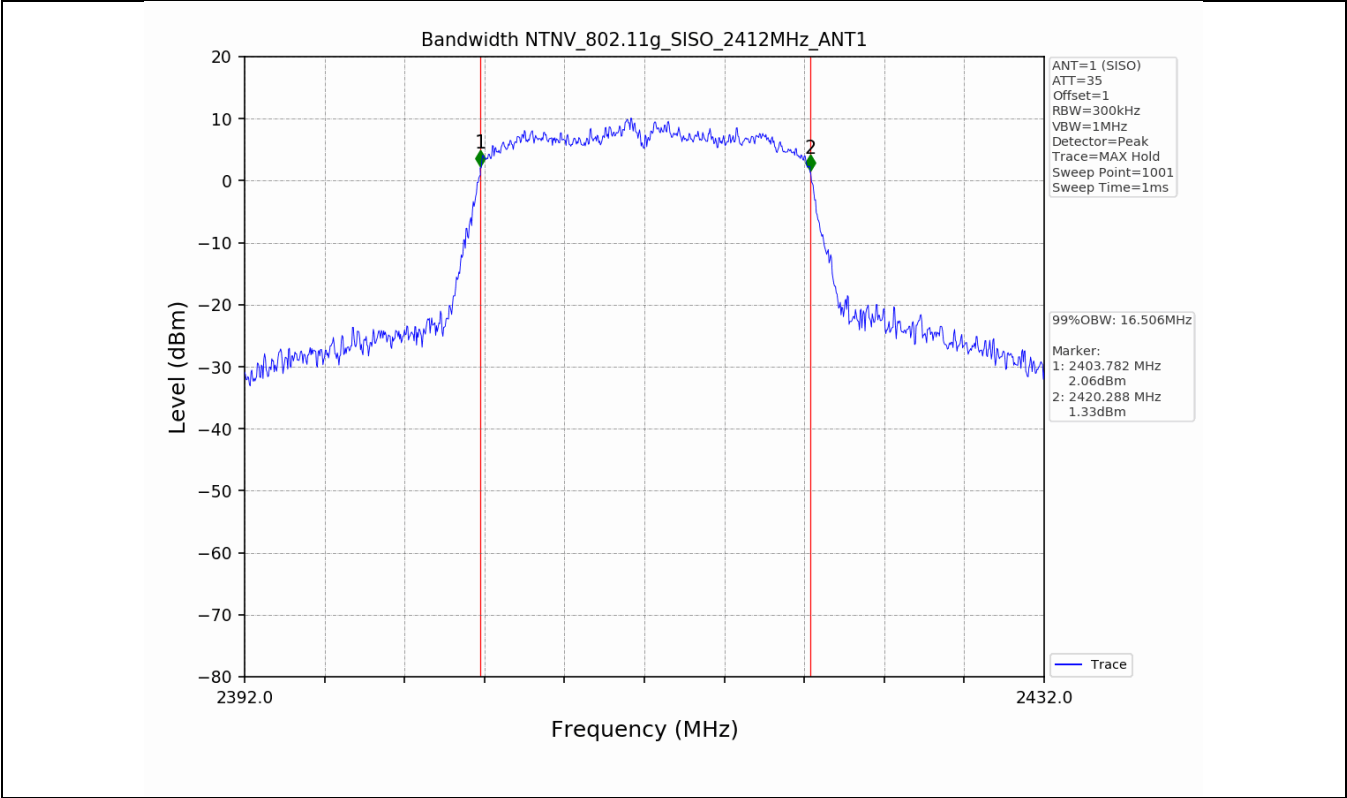
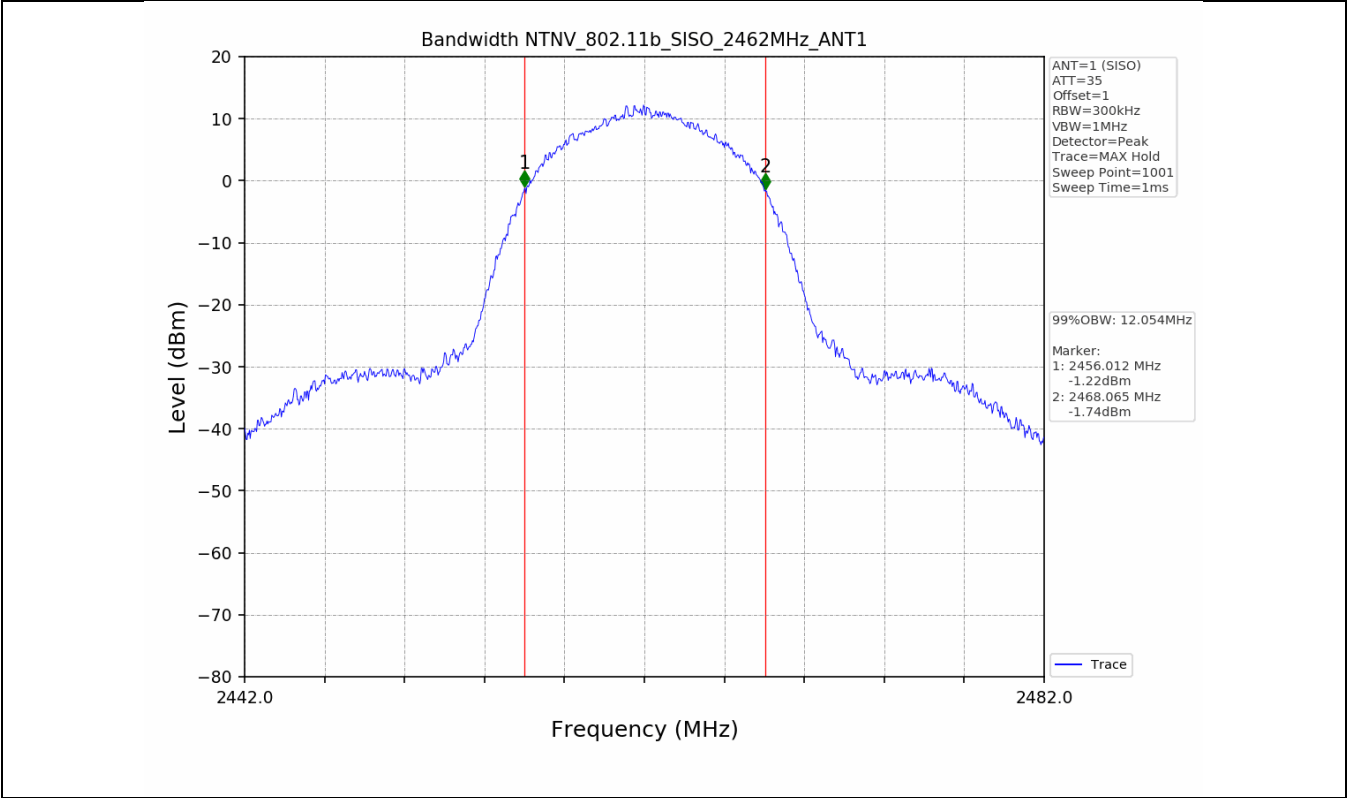


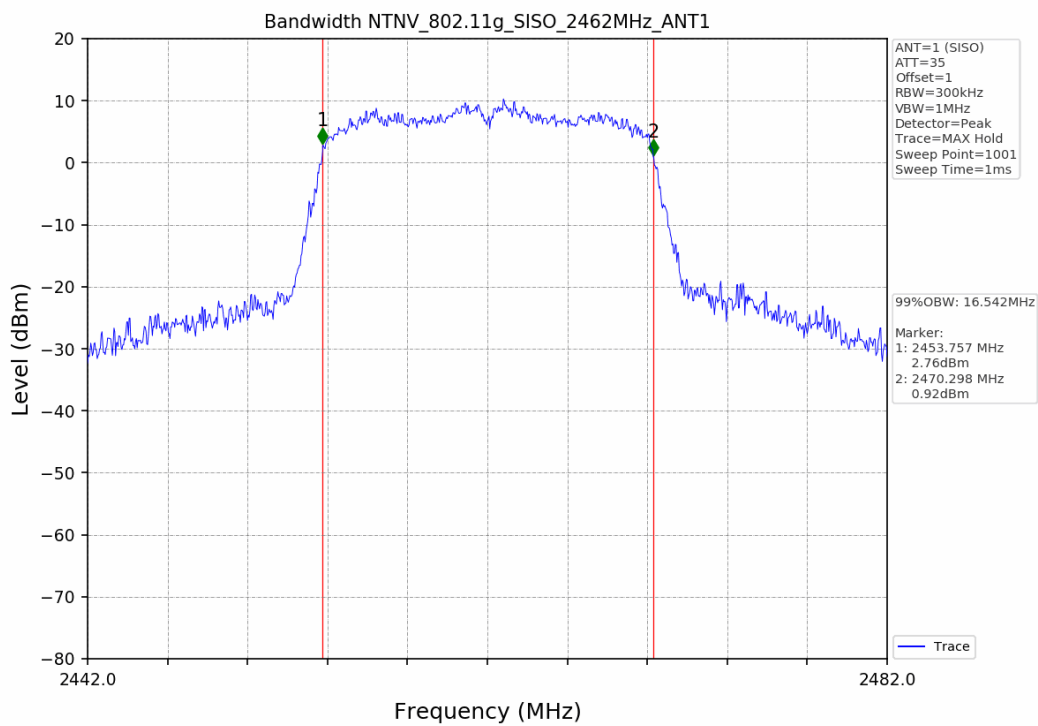
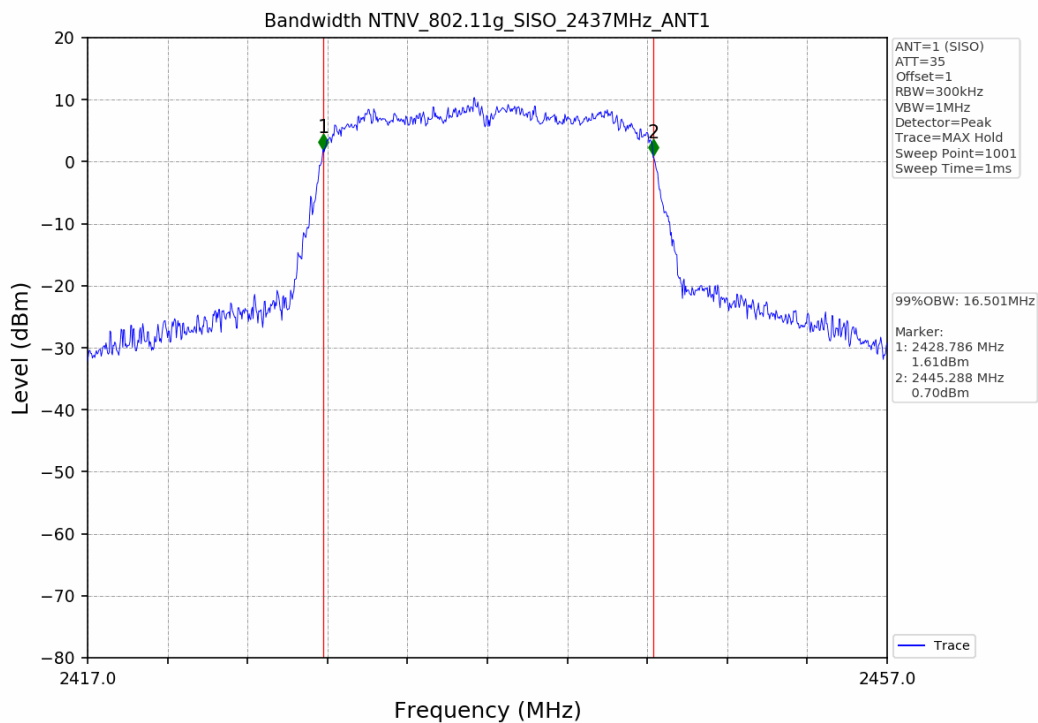


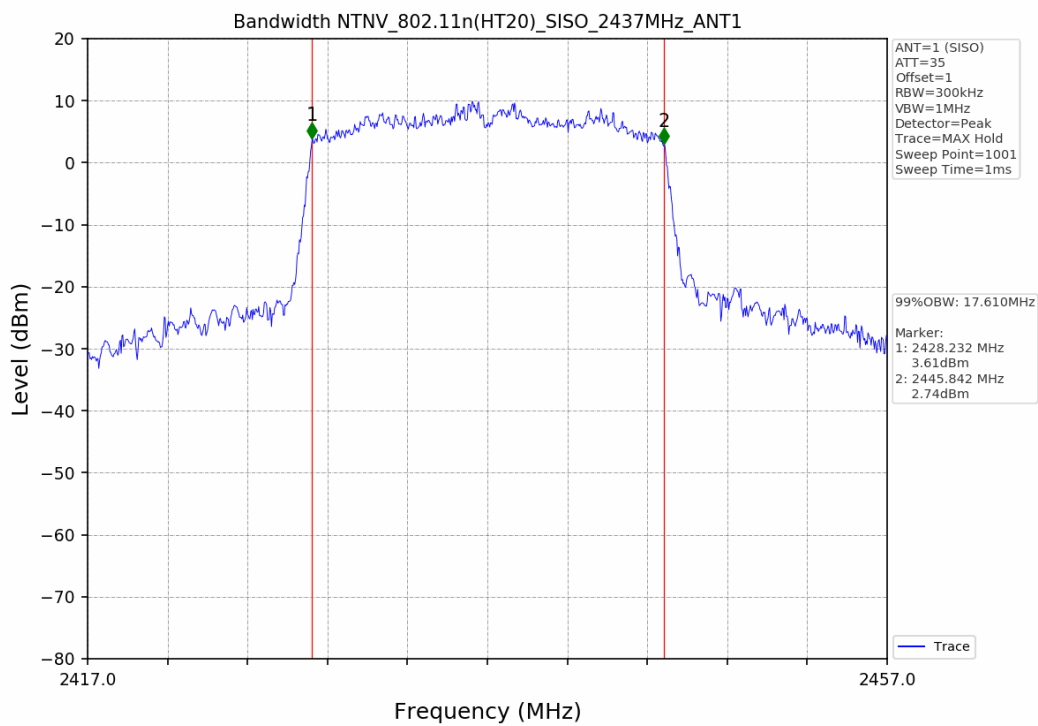
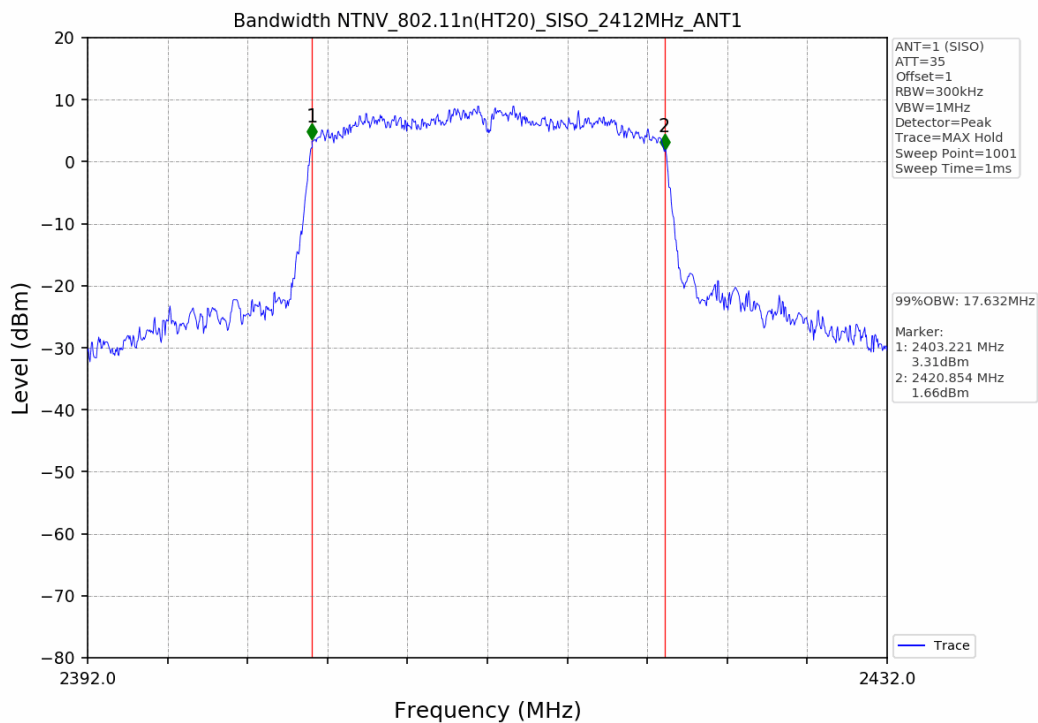


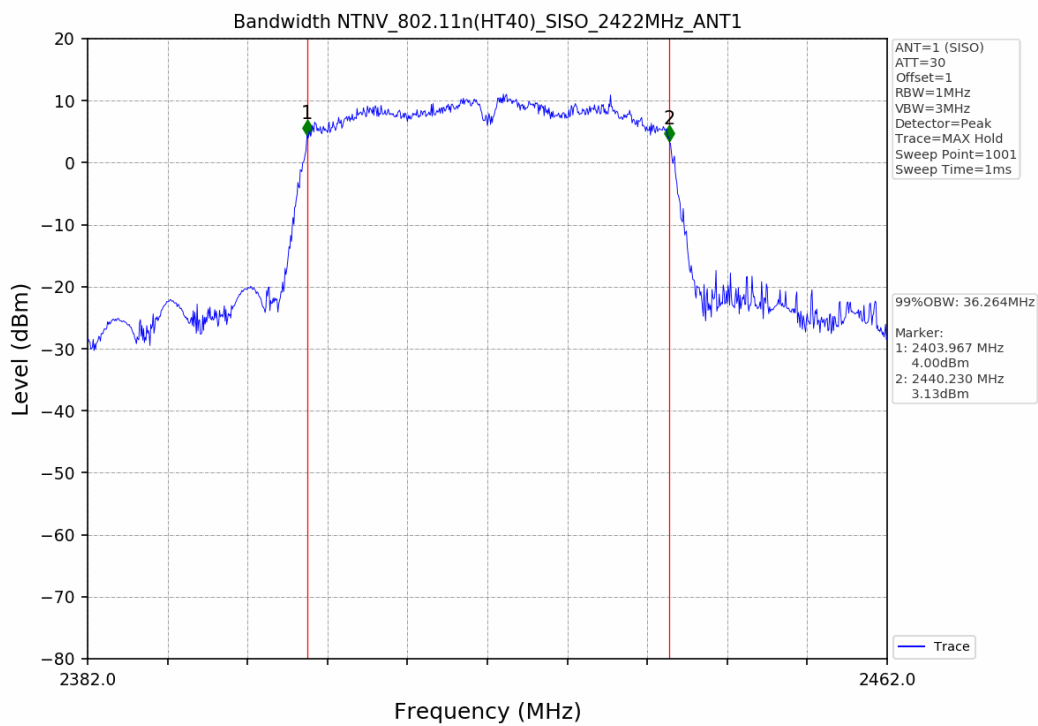
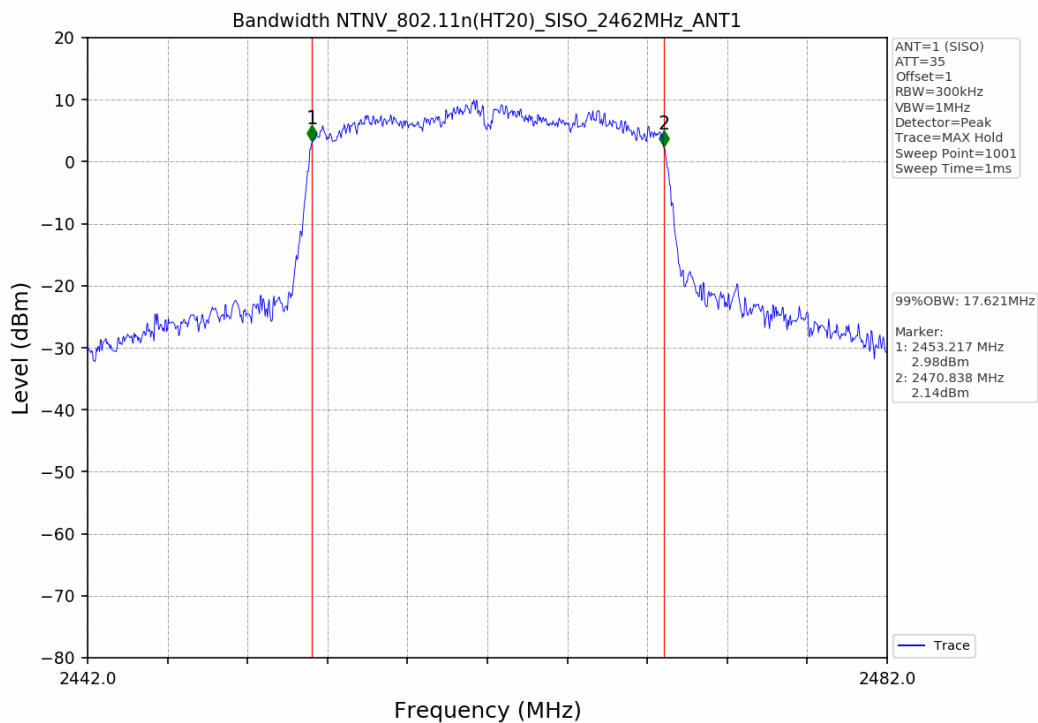
1.3 Test Graph - 99% Occupied Bandwidth

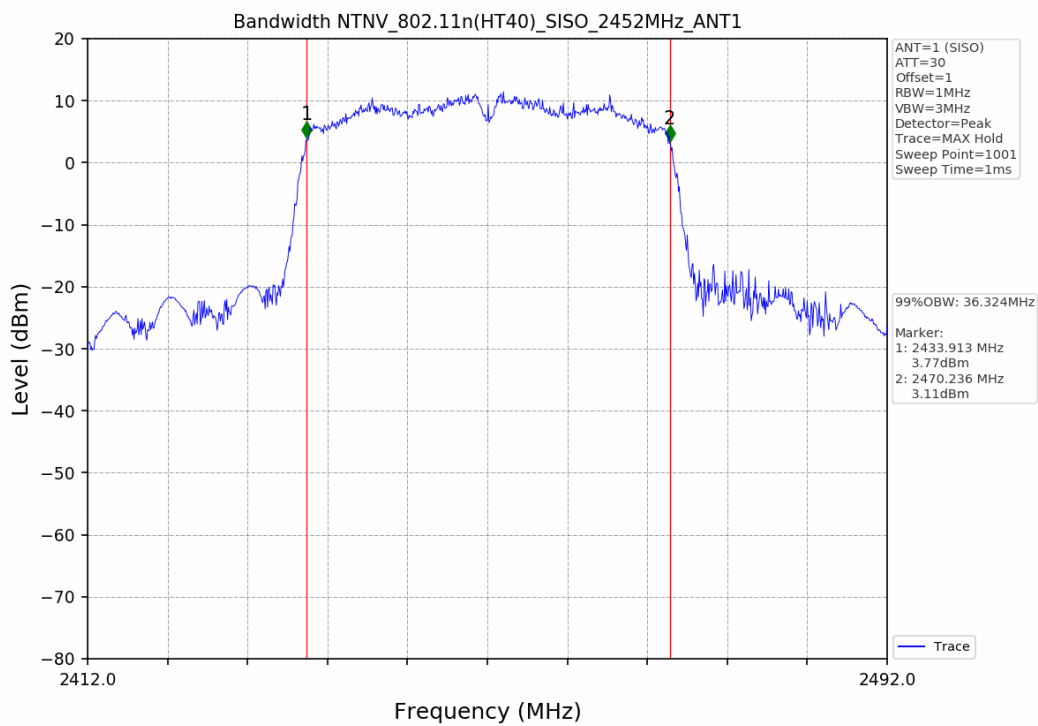
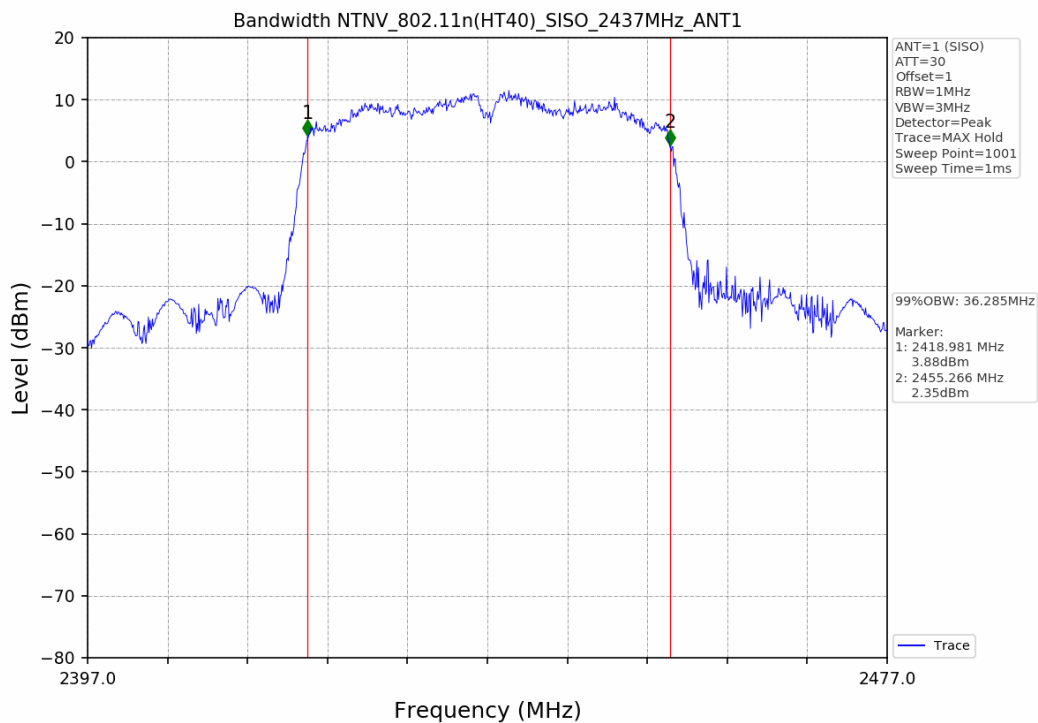










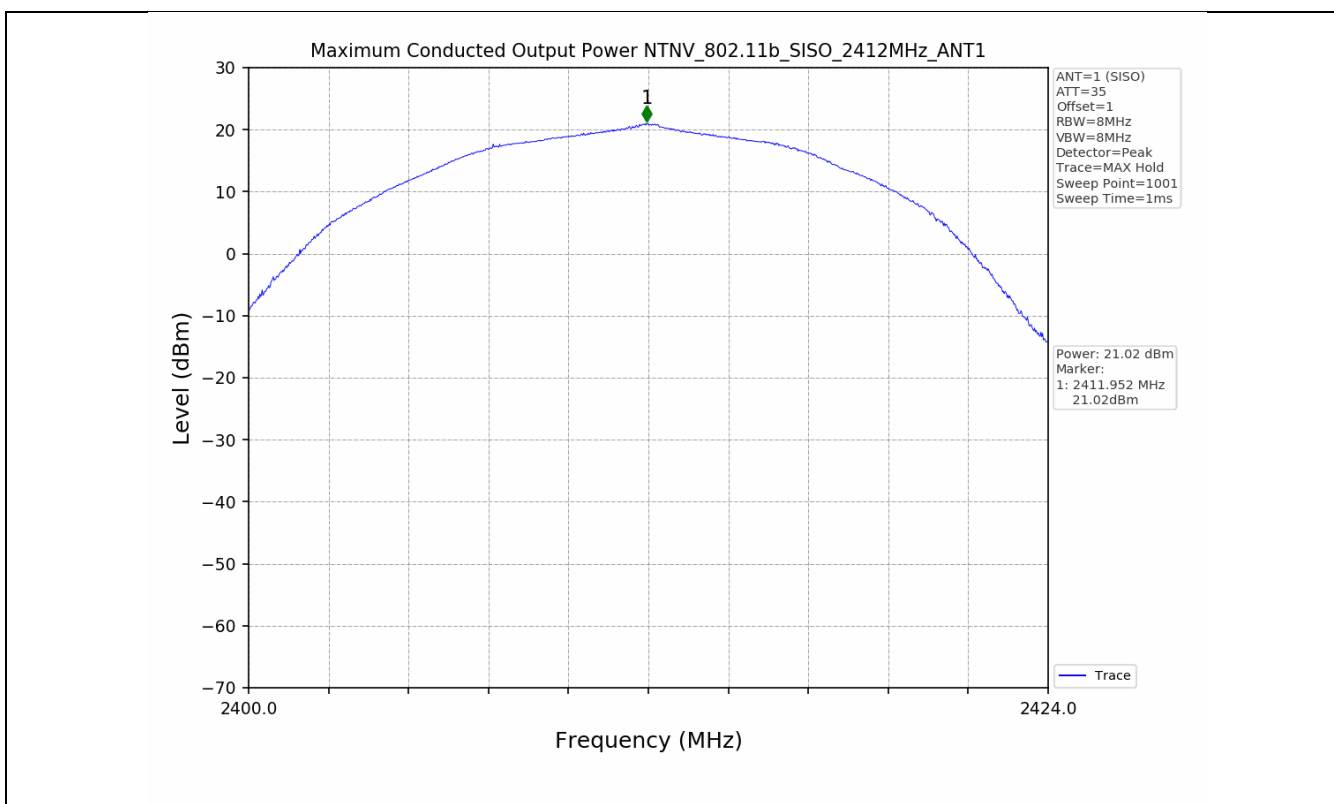


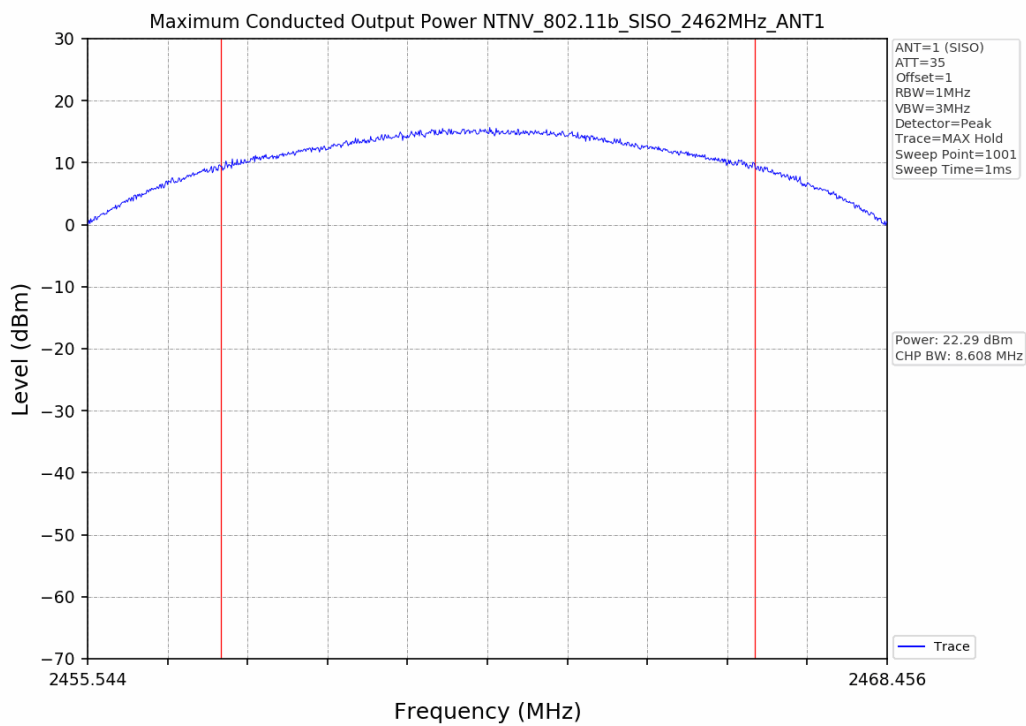
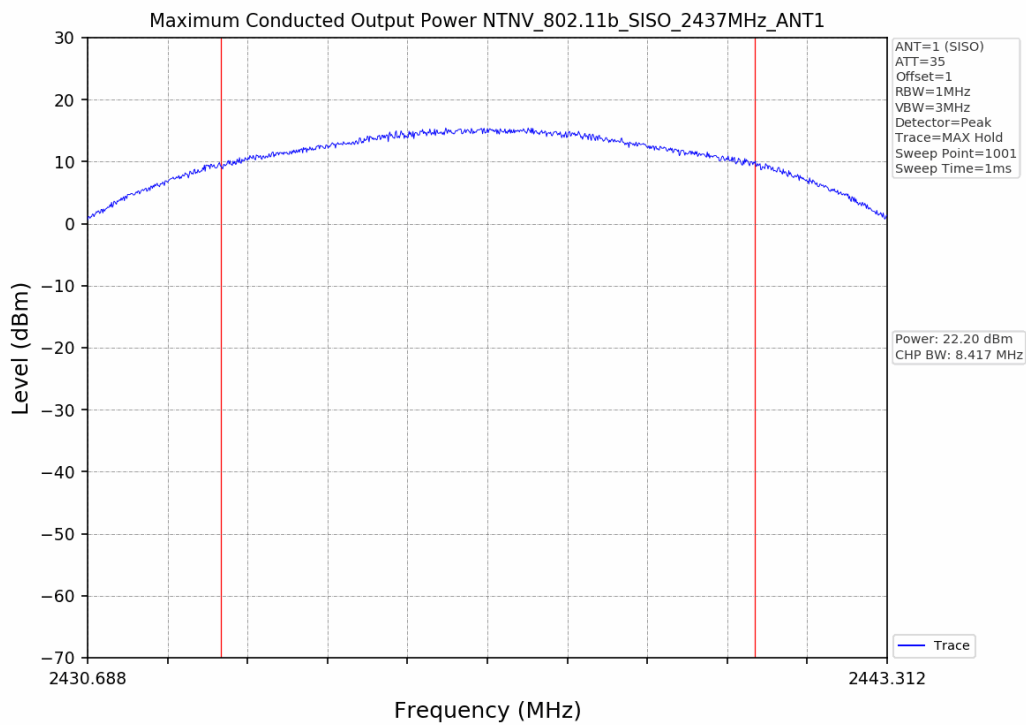
2. Maximum Conducted Output Power

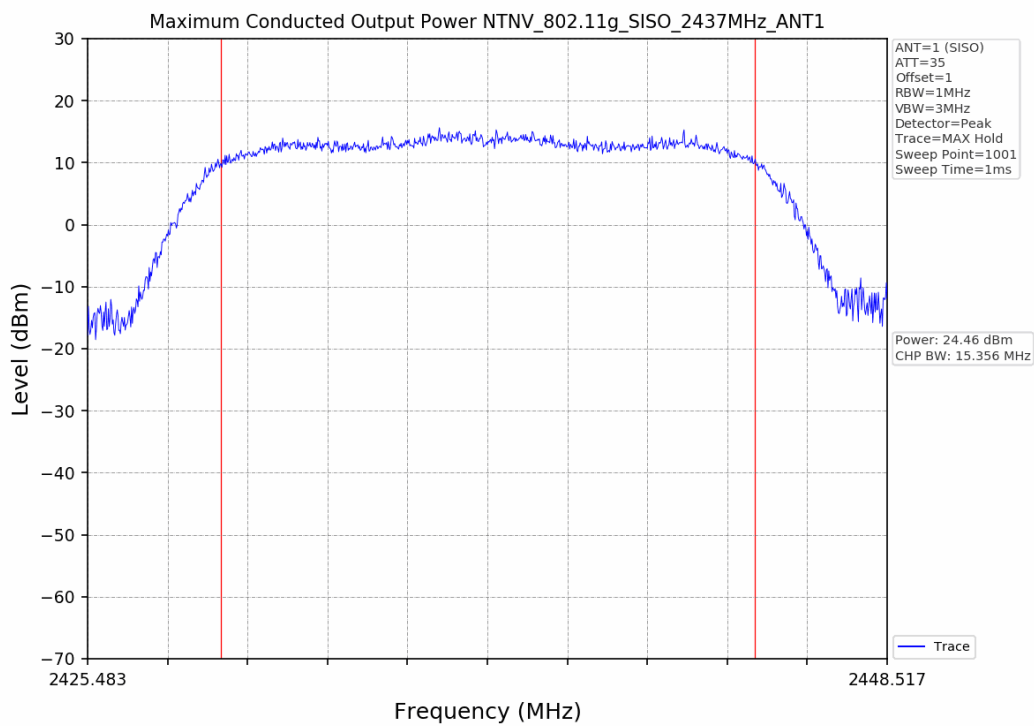
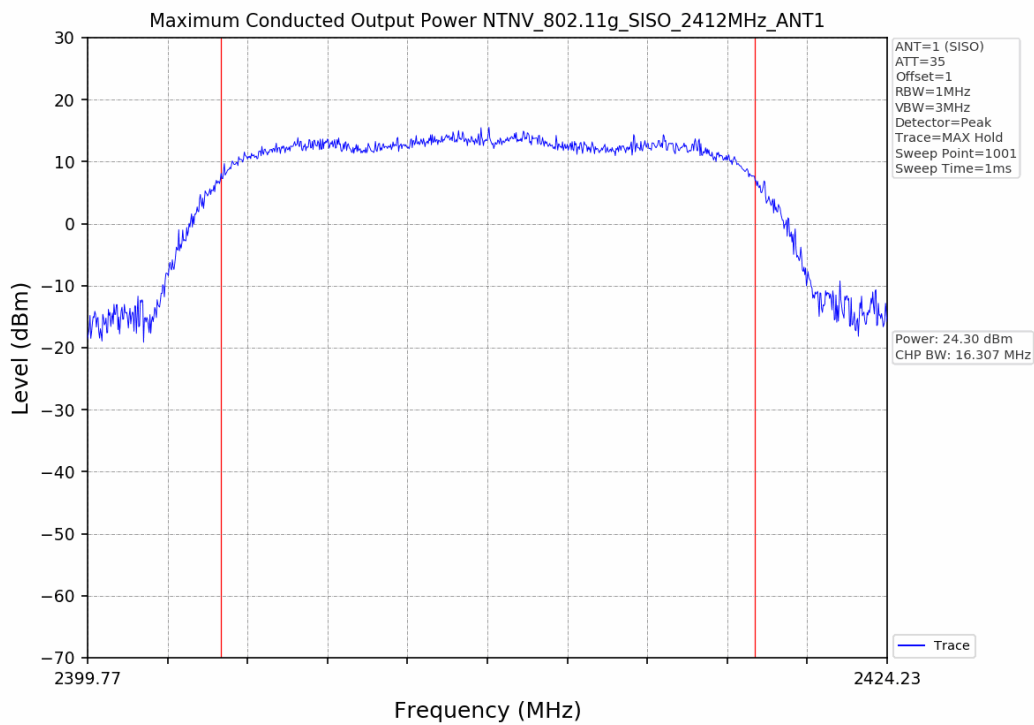
2.1 Test Result

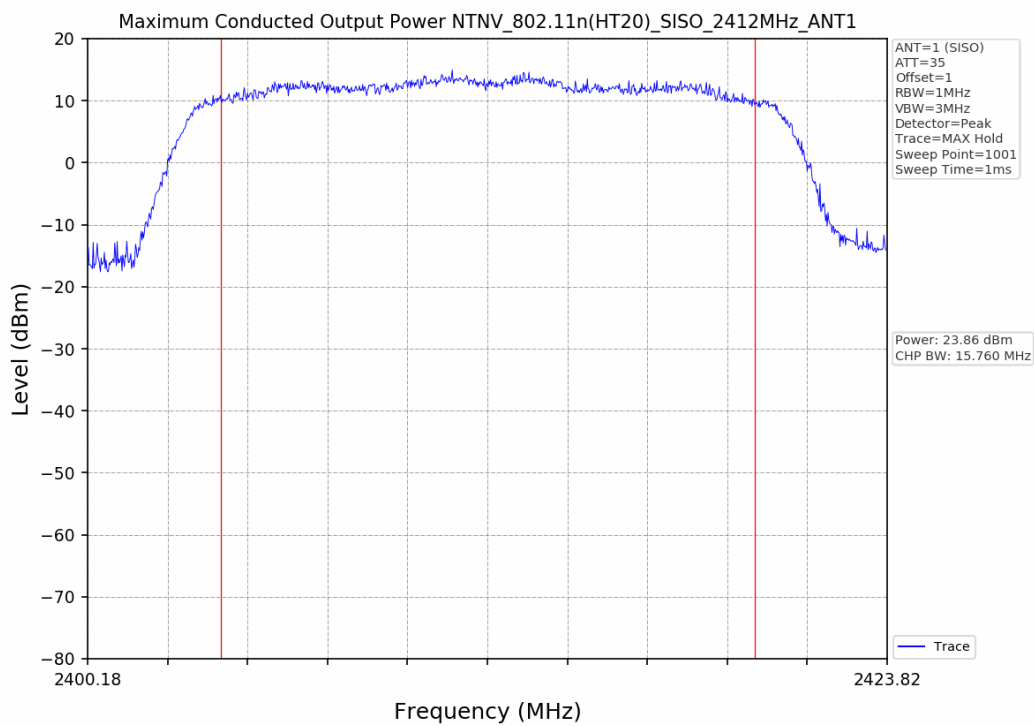
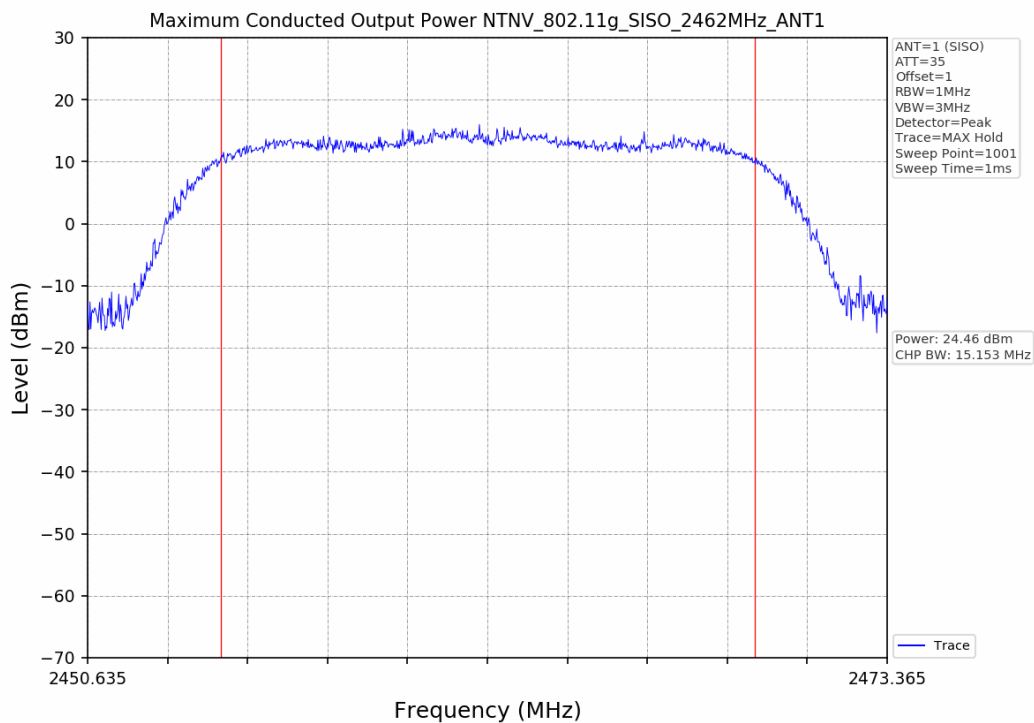
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	21.02	30	PASS
	2437	SISO	22.20	30	PASS
	2462	SISO	22.29	30	PASS
802.11g	2412	SISO	24.30	30	PASS
	2437	SISO	24.46	30	PASS
	2462	SISO	24.46	30	PASS
802.11n(HT20)	2412	SISO	23.86	30	PASS
	2437	SISO	24.35	30	PASS
	2462	SISO	24.15	30	PASS
802.11n(HT40)	2422	SISO	23.01	30	PASS
	2437	SISO	23.31	30	PASS
	2452	SISO	23.33	30	PASS

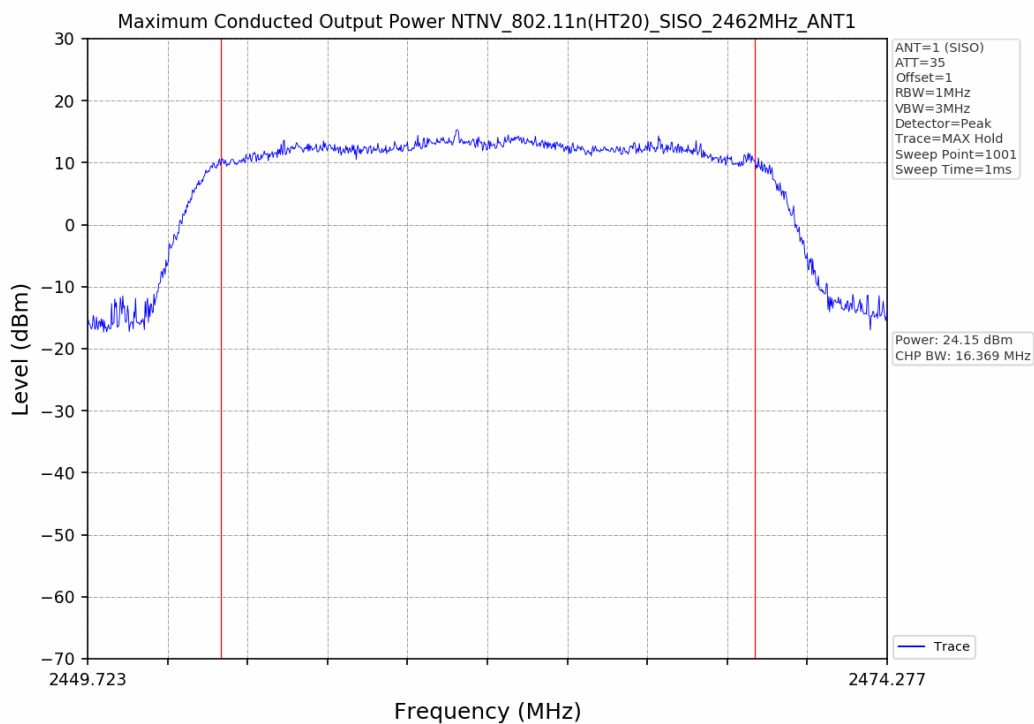
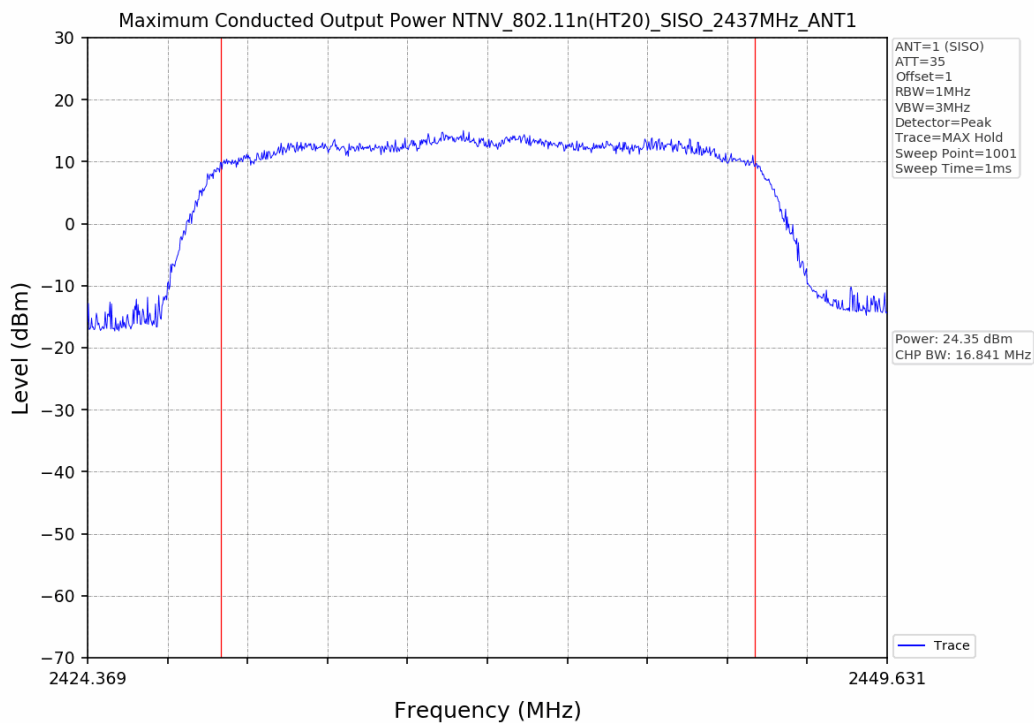
2.2 Test Graph

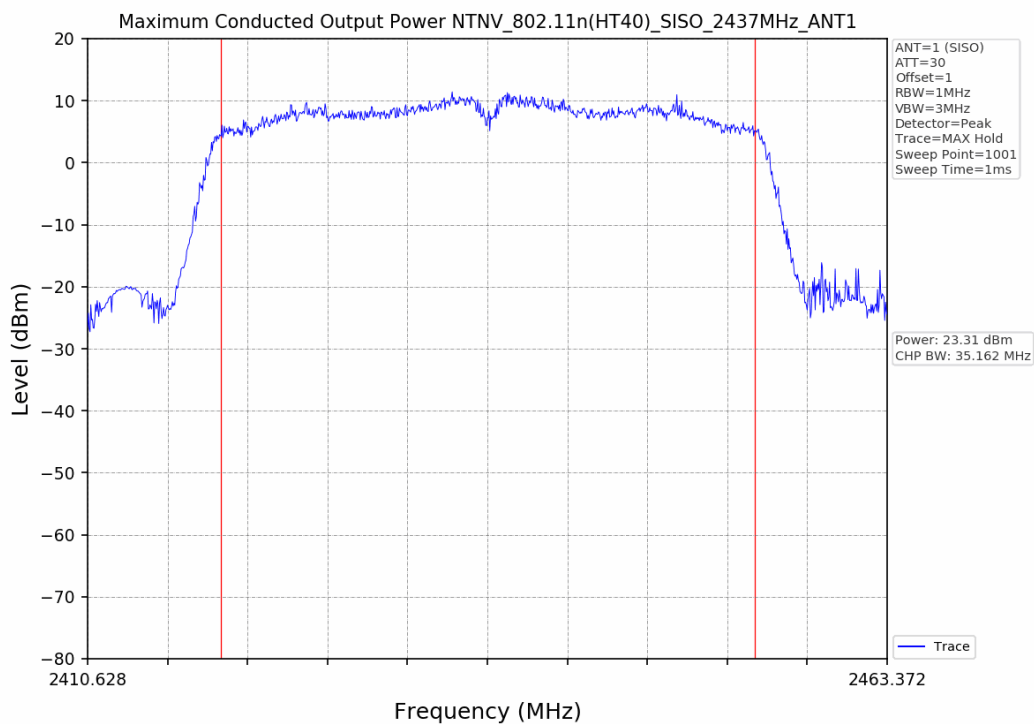
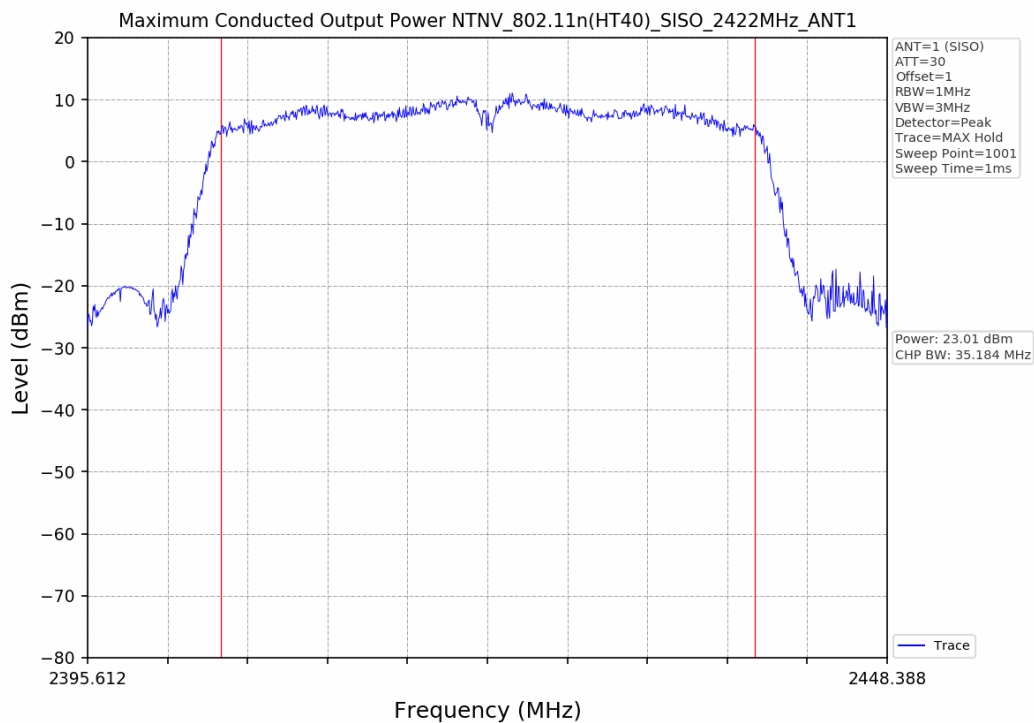


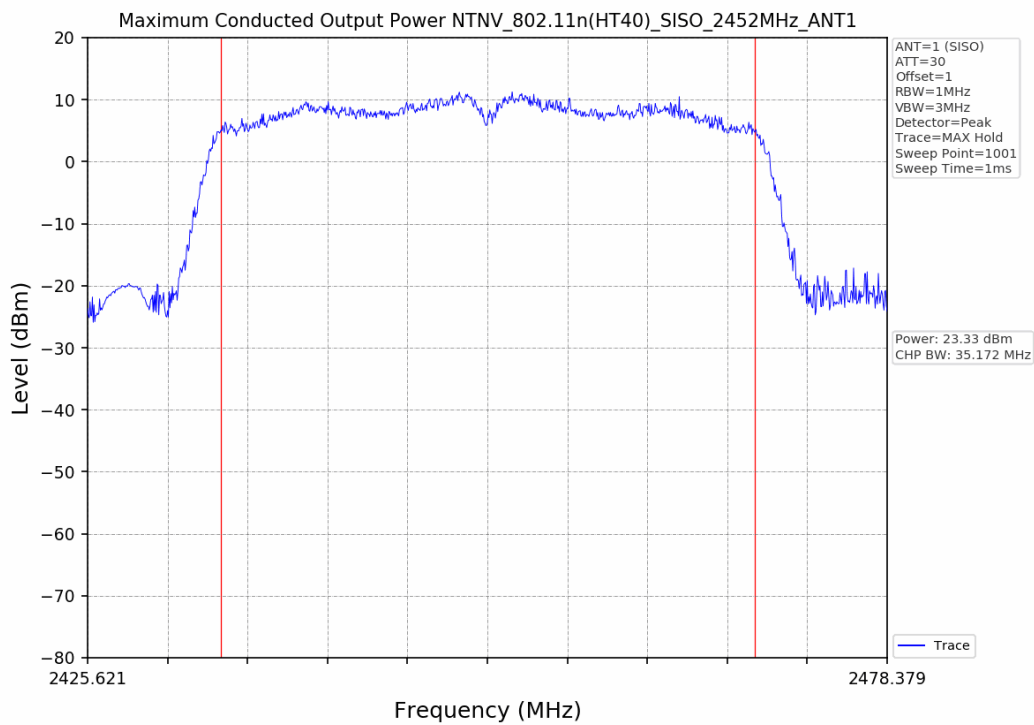










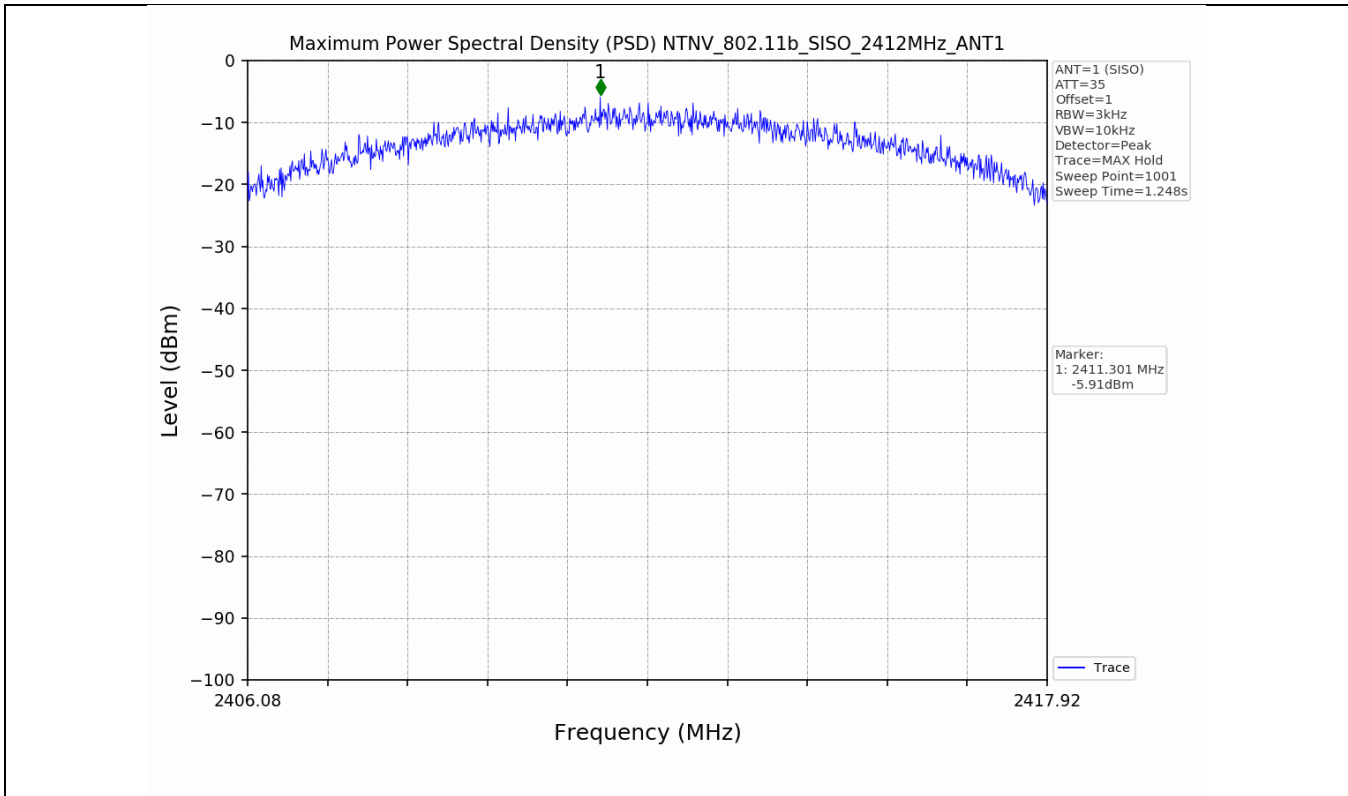


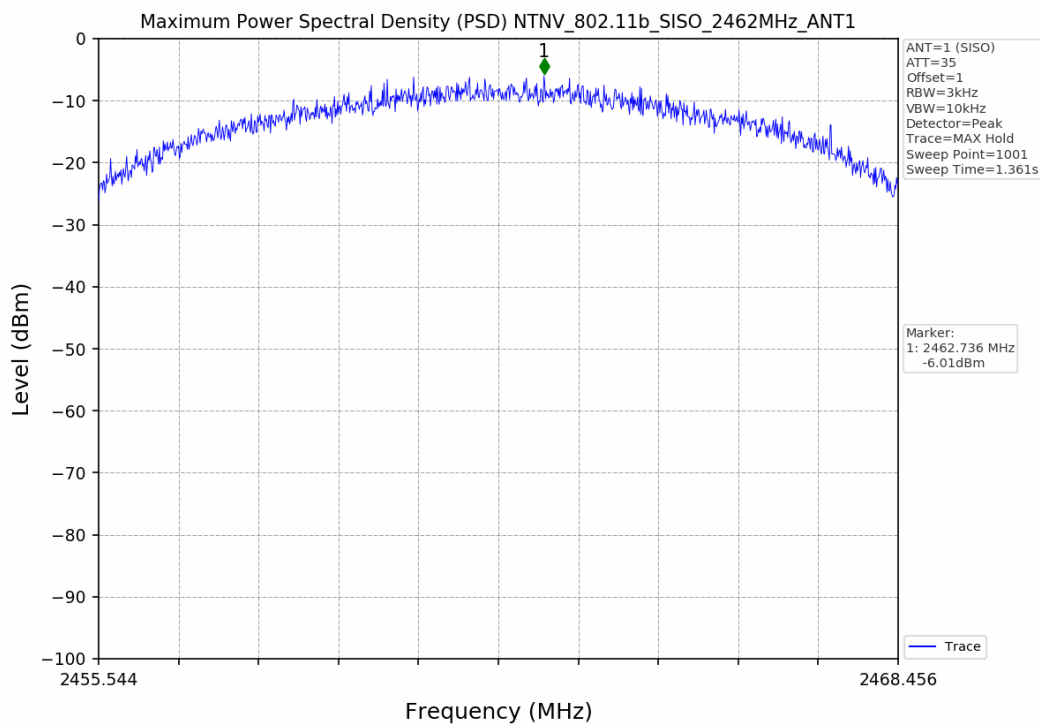
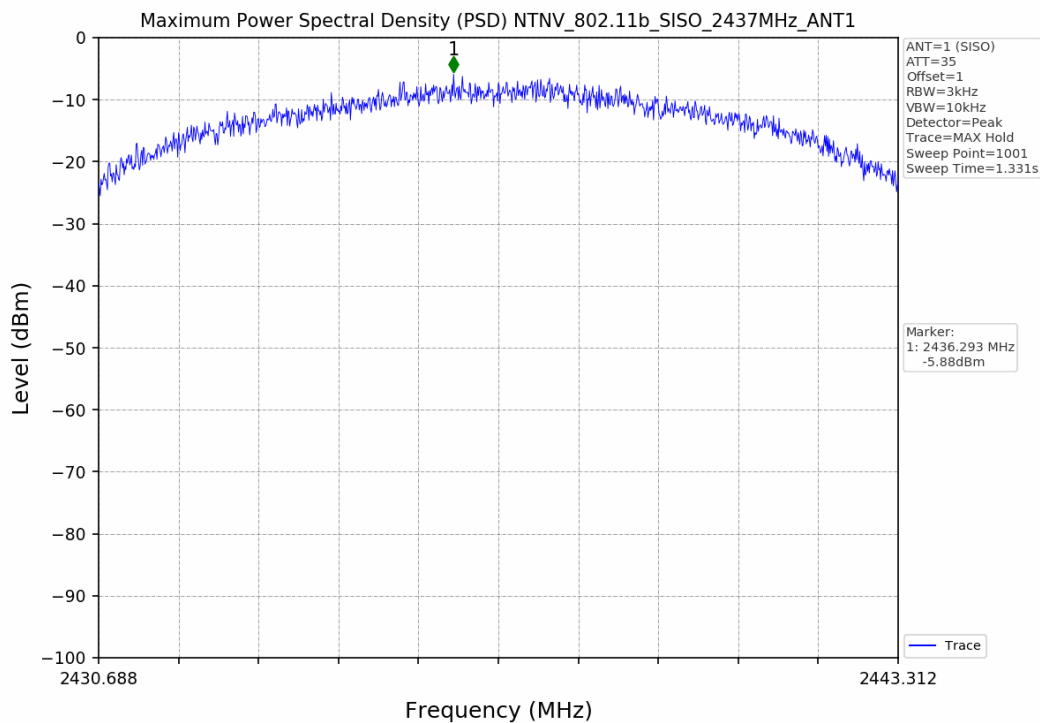
3. Maximum Power Spectral Density (PSD)

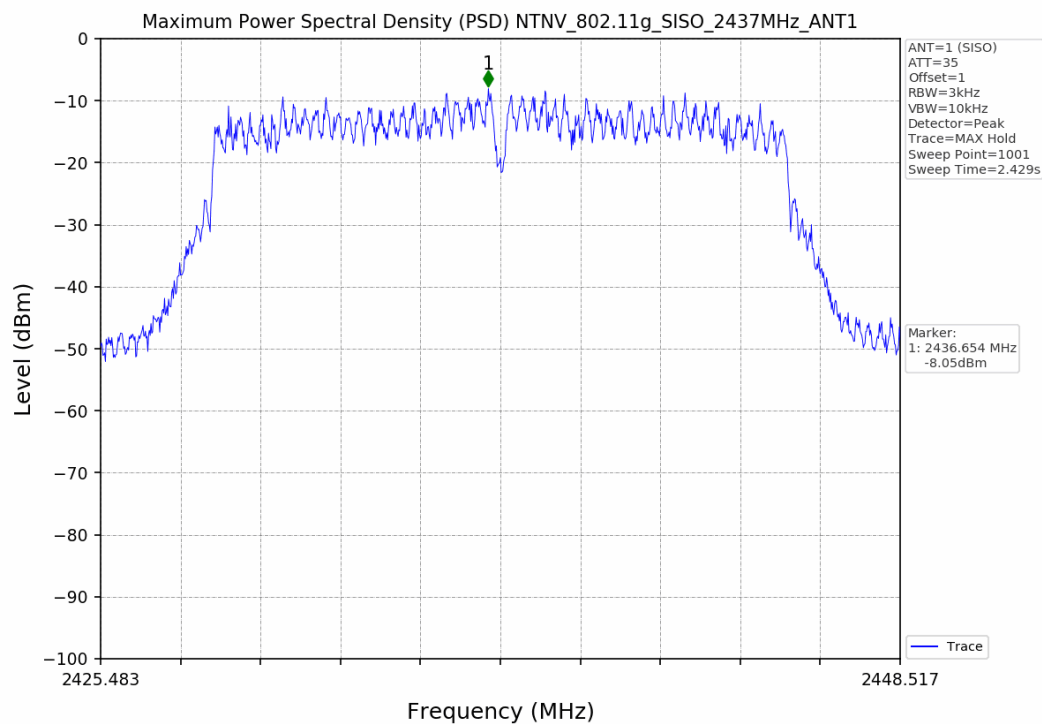
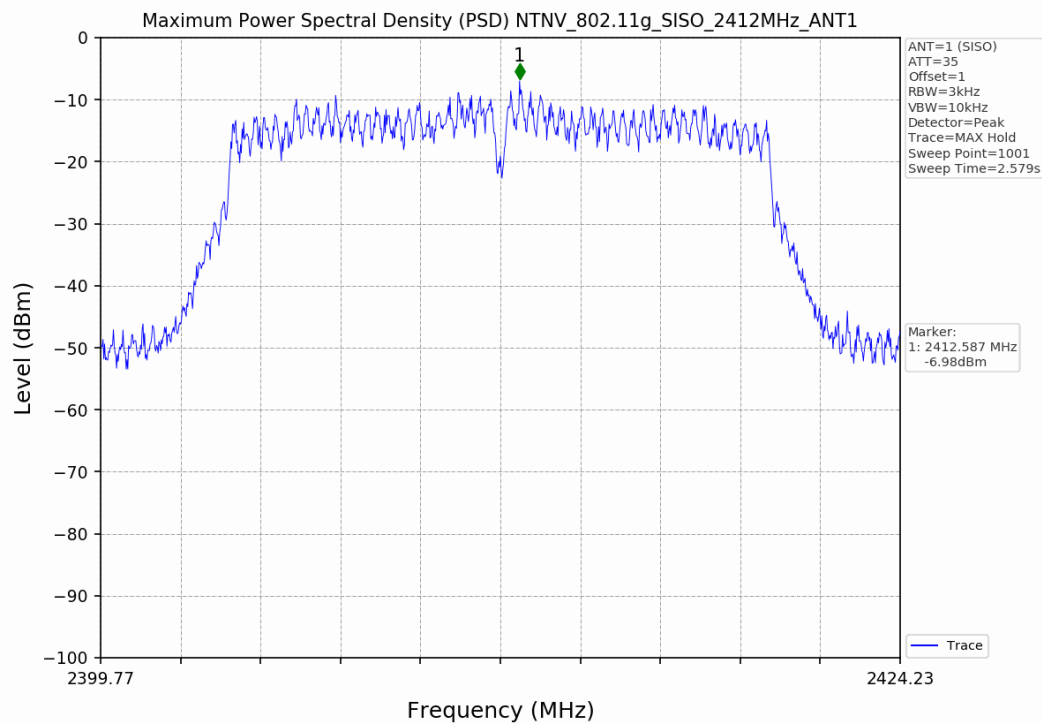
3.1 Test Result

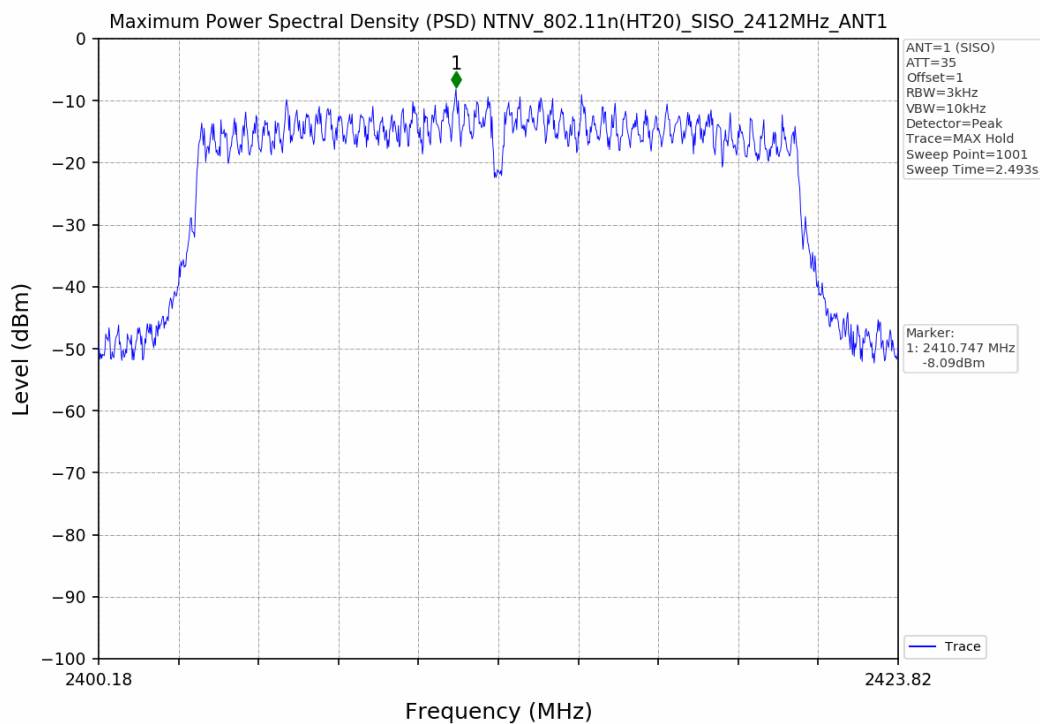
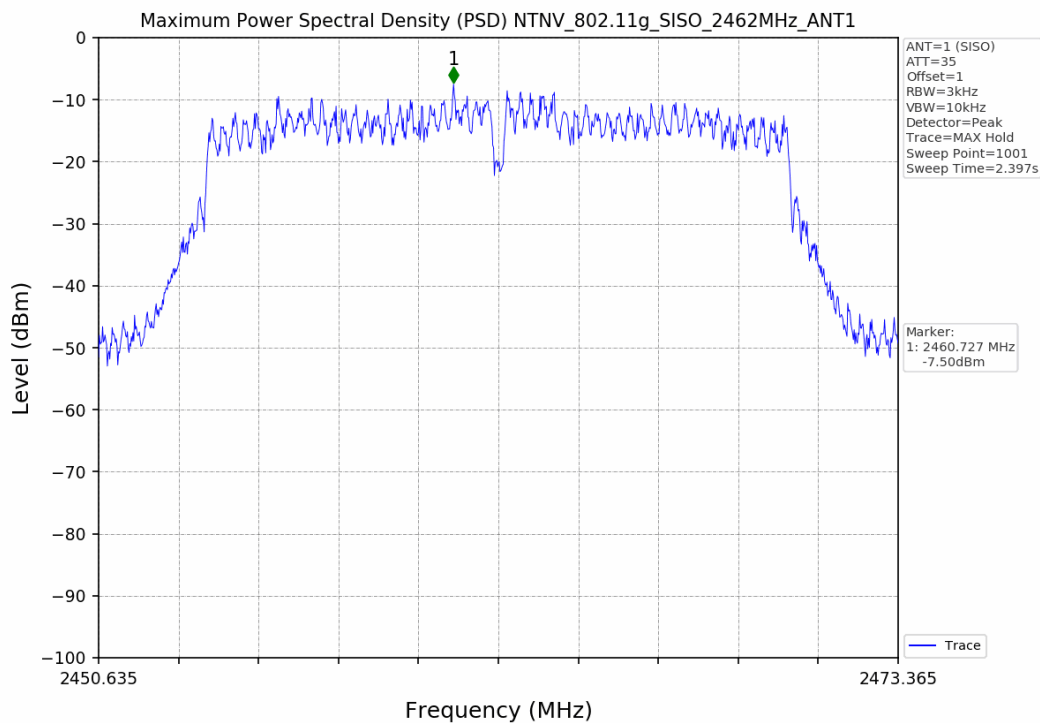
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-5.91	≤ 8	PASS
	2437	SISO	-5.88	≤ 8	PASS
	2462	SISO	-6.01	≤ 8	PASS
802.11g	2412	SISO	-6.98	≤ 8	PASS
	2437	SISO	-8.05	≤ 8	PASS
	2462	SISO	-7.50	≤ 8	PASS
802.11n(HT20)	2412	SISO	-8.09	≤ 8	PASS
	2437	SISO	-7.96	≤ 8	PASS
	2462	SISO	-7.13	≤ 8	PASS
802.11n(HT40)	2422	SISO	-11.54	≤ 8	PASS
	2437	SISO	-10.52	≤ 8	PASS
	2452	SISO	-10.38	≤ 8	PASS

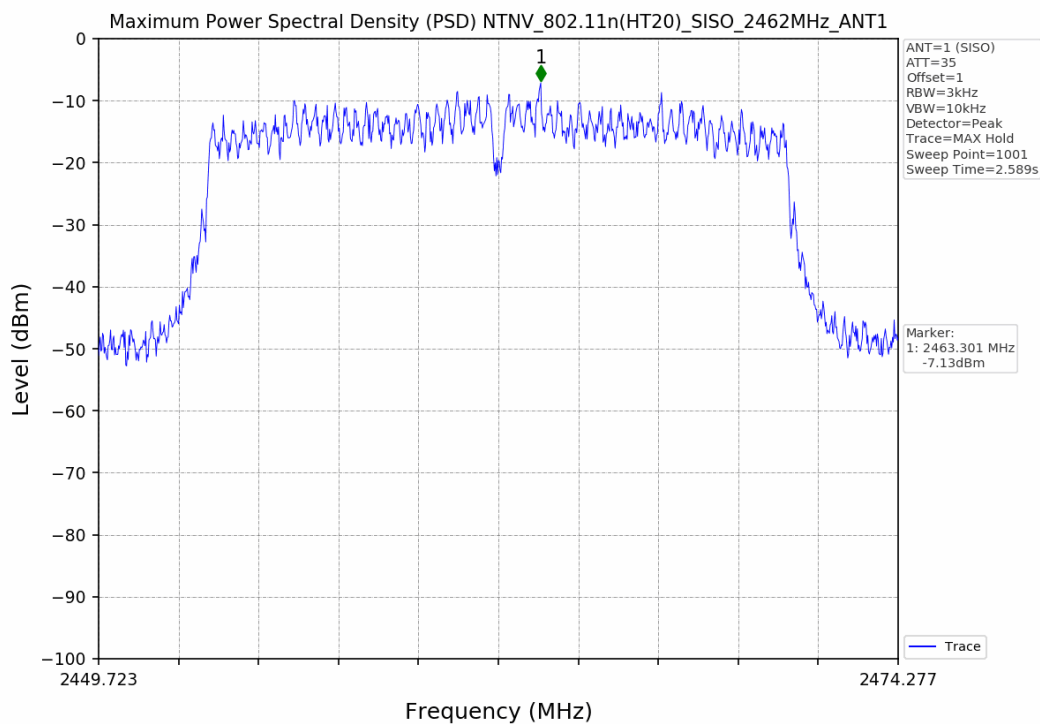
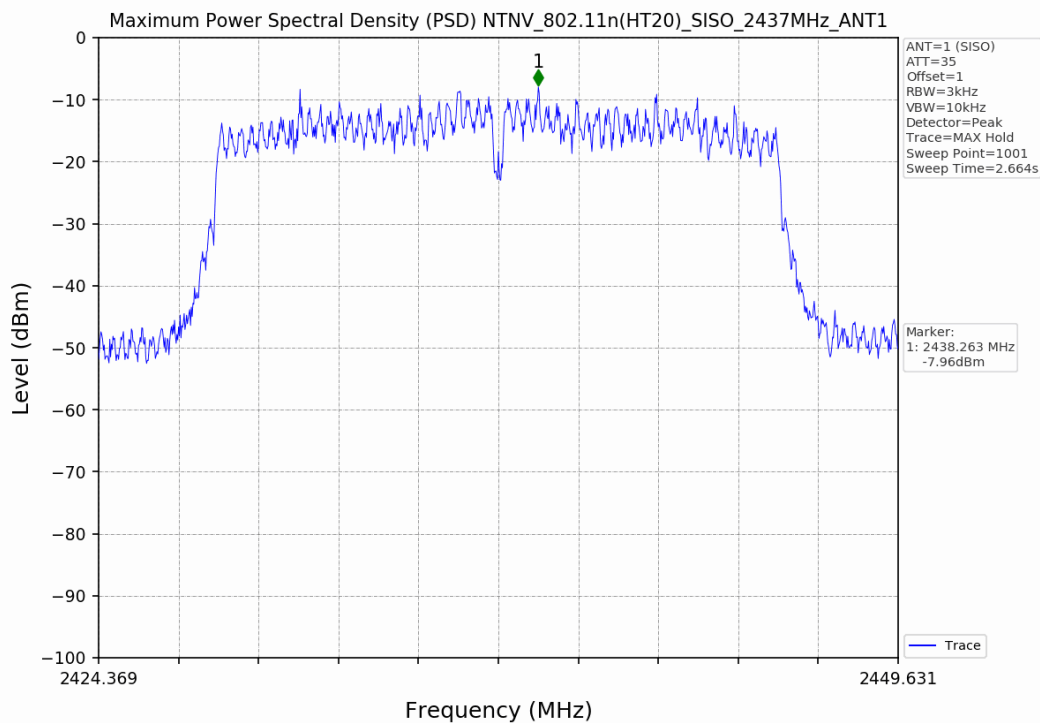
3.2 Test Graph

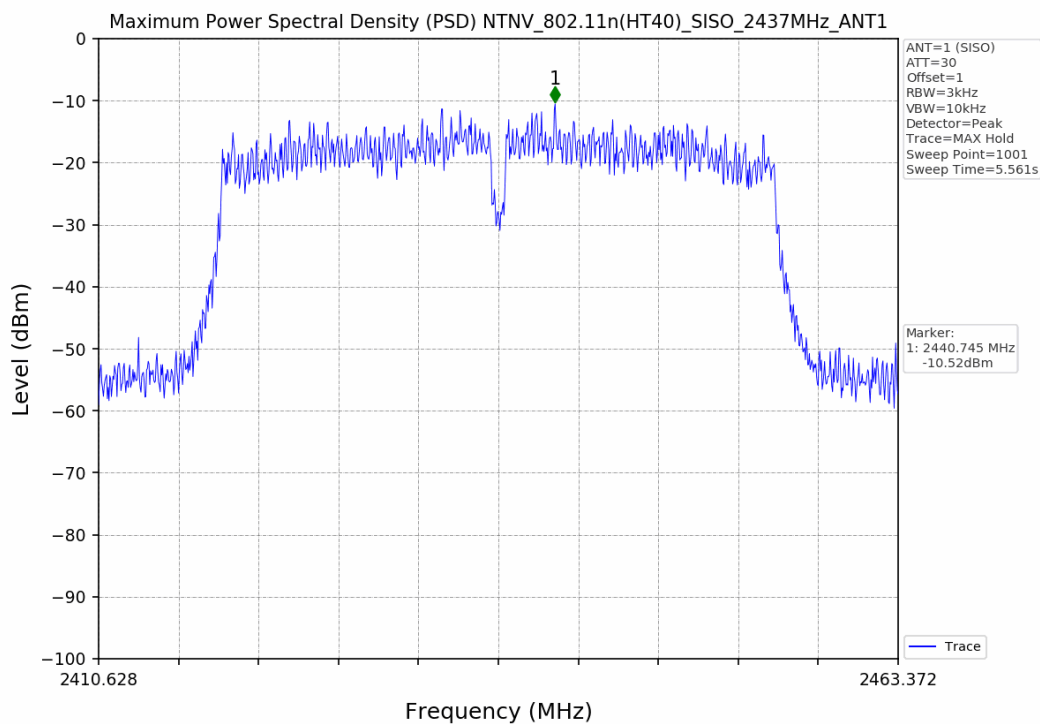
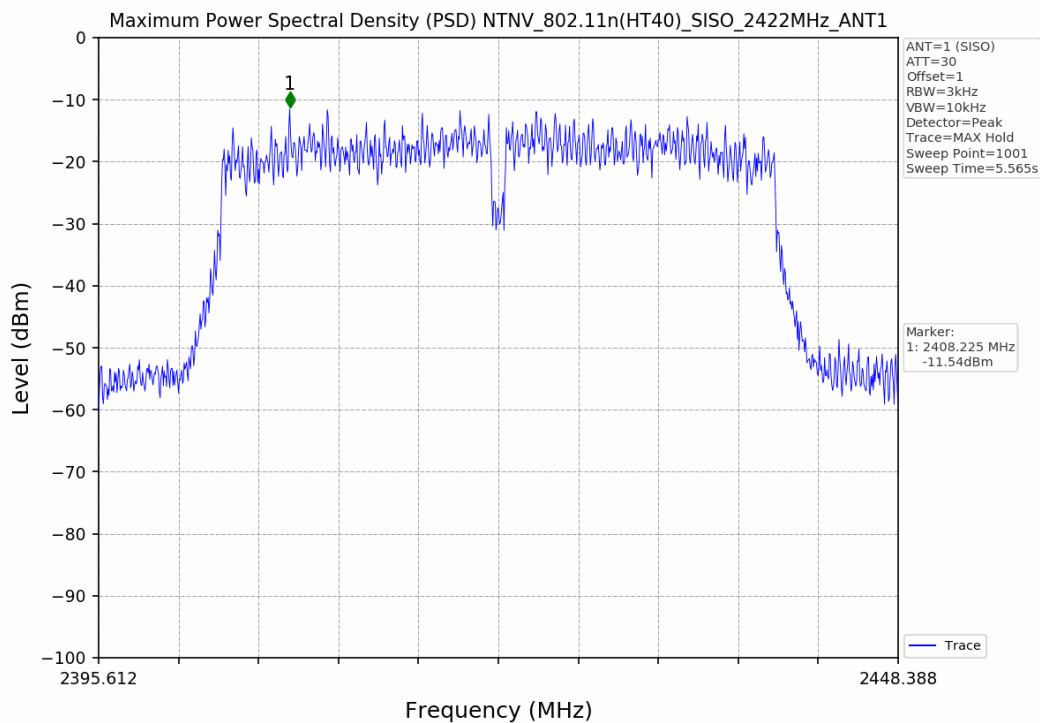


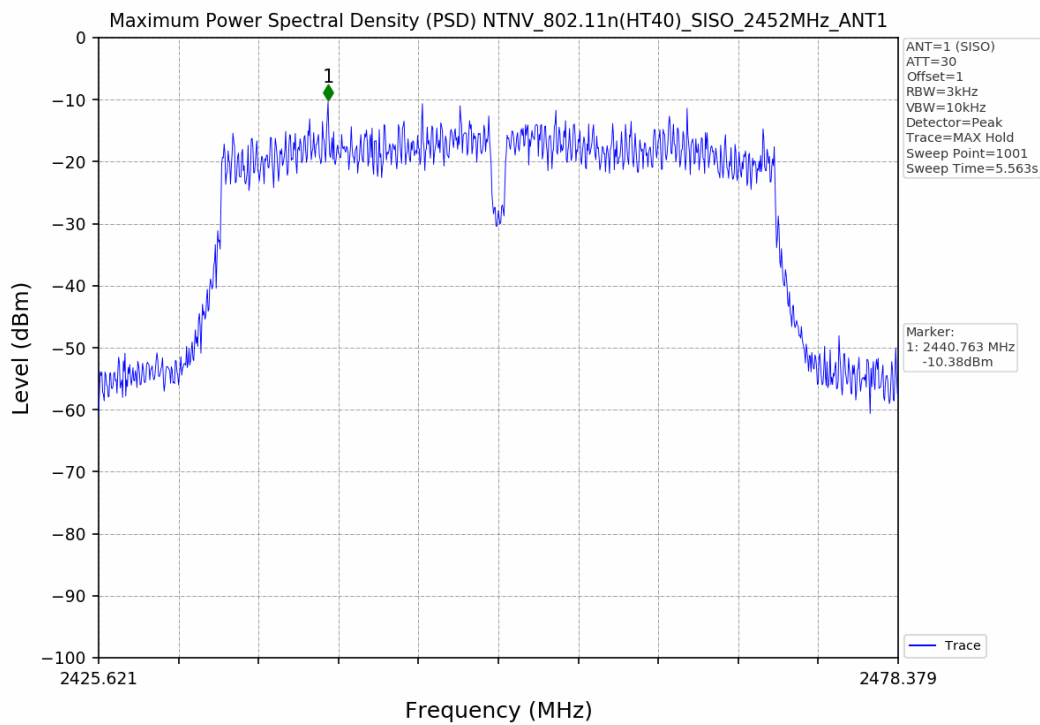












4. Unwanted Emissions in Non-restricted Frequency Bands

4.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-10.49	PASS
	2437	SISO	1	Refer to test graph	-10.49	PASS
	2462	SISO	1	Refer to test graph	-10.49	PASS
802.11g	2412	SISO	1	Refer to test graph	-13.45	PASS
	2437	SISO	1	Refer to test graph	-13.45	PASS
	2462	SISO	1	Refer to test graph	-13.45	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-13.37	PASS
	2437	SISO	1	Refer to test graph	-13.37	PASS
	2462	SISO	1	Refer to test graph	-13.37	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-17.45	PASS
	2437	SISO	1	Refer to test graph	-17.45	PASS
	2452	SISO	1	Refer to test graph	-17.45	PASS

4.2 Test Graph

