

Appendix for 15.247

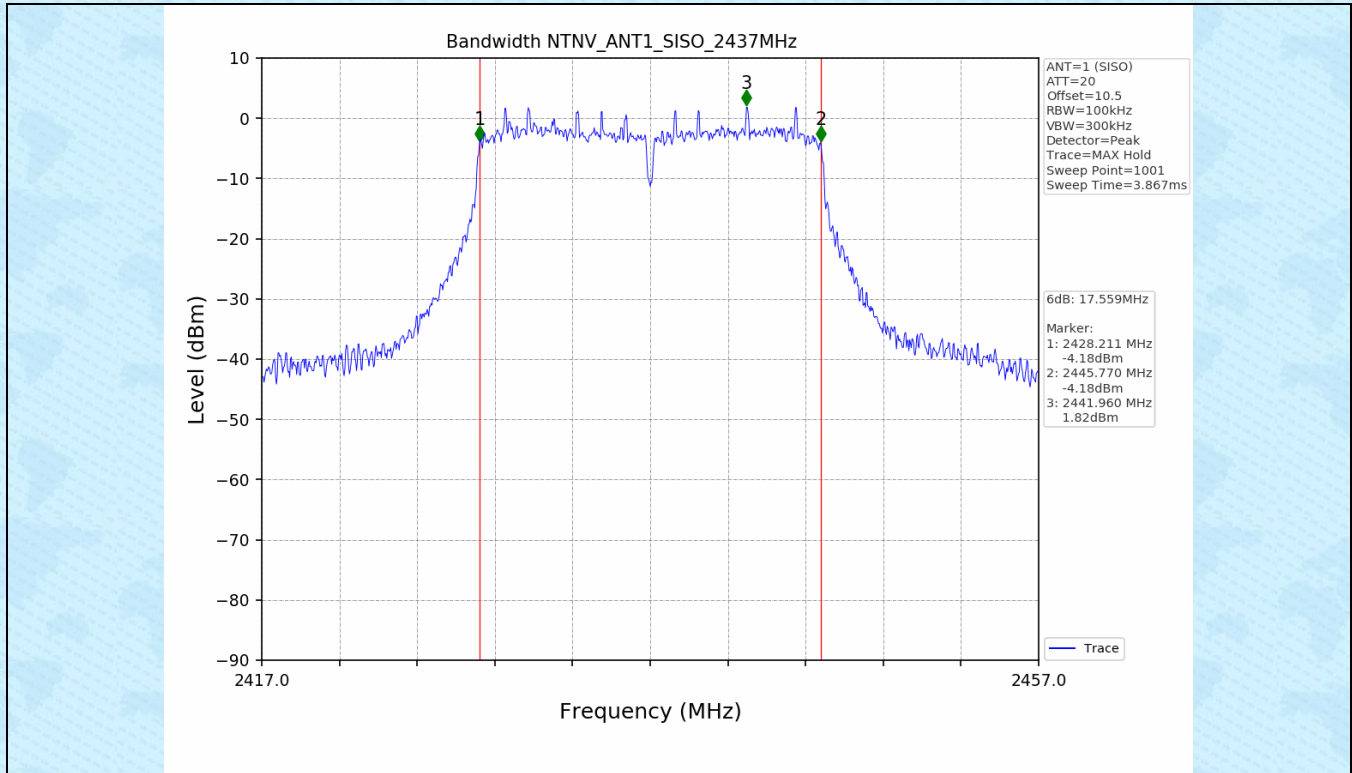
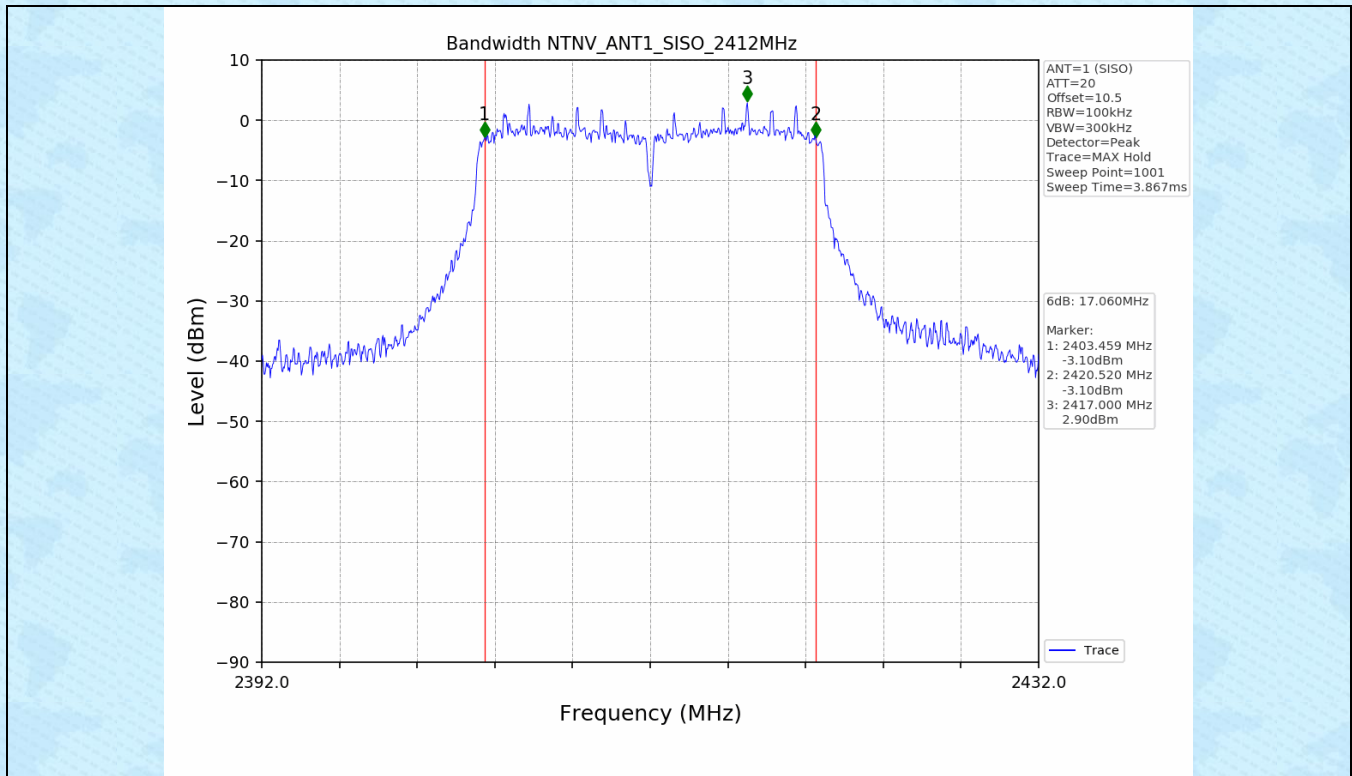
1. Bandwidth

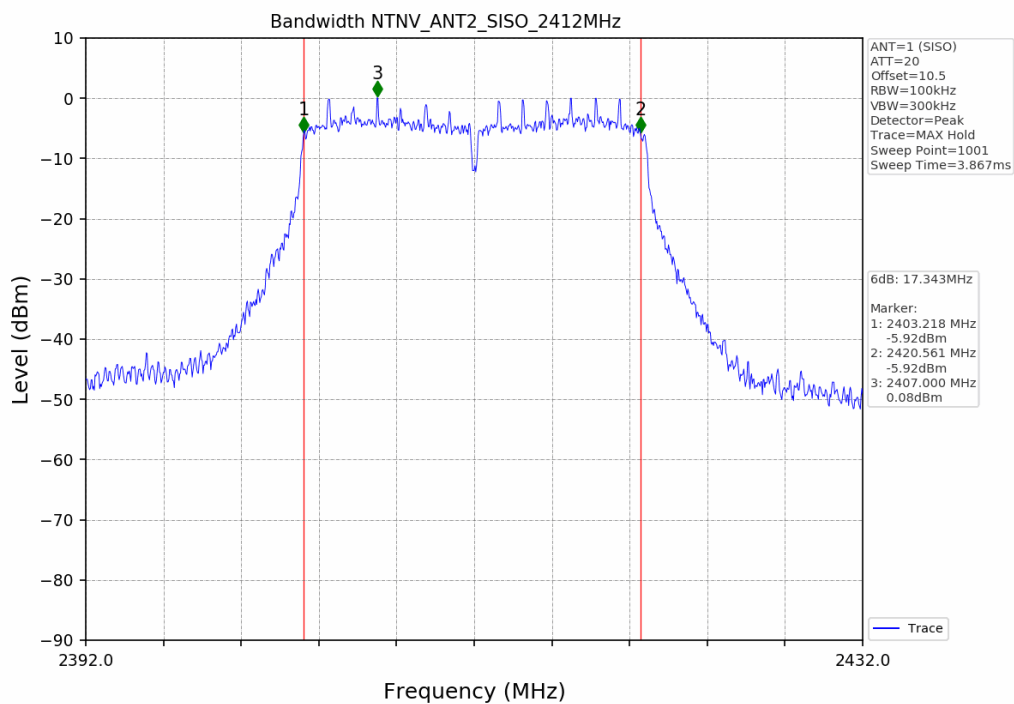
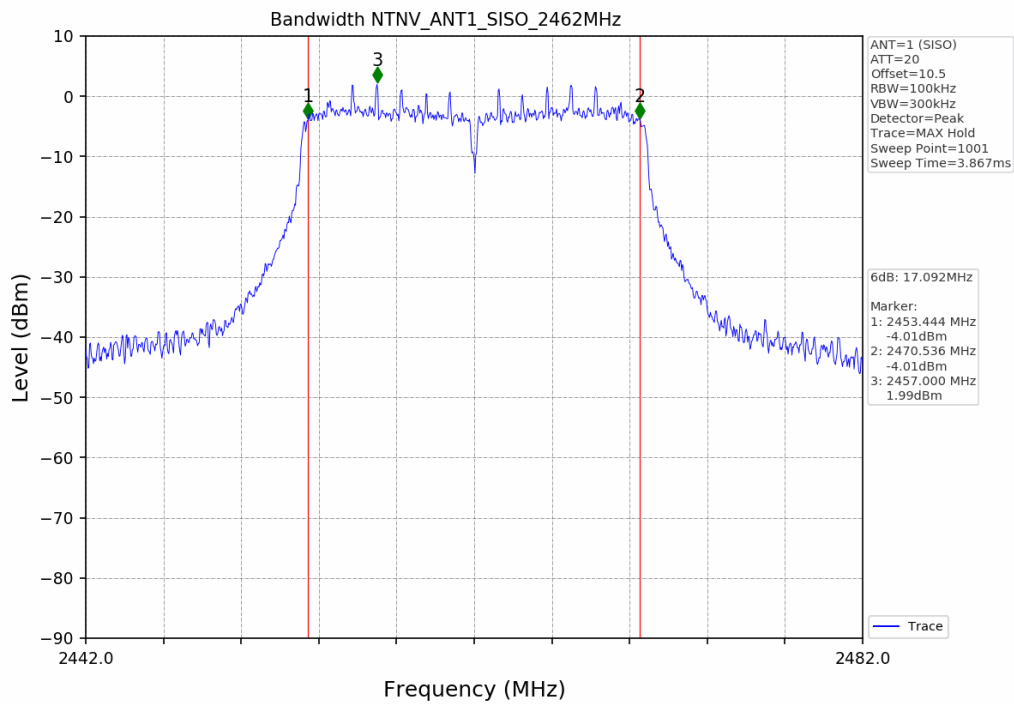
1.1 Test Result

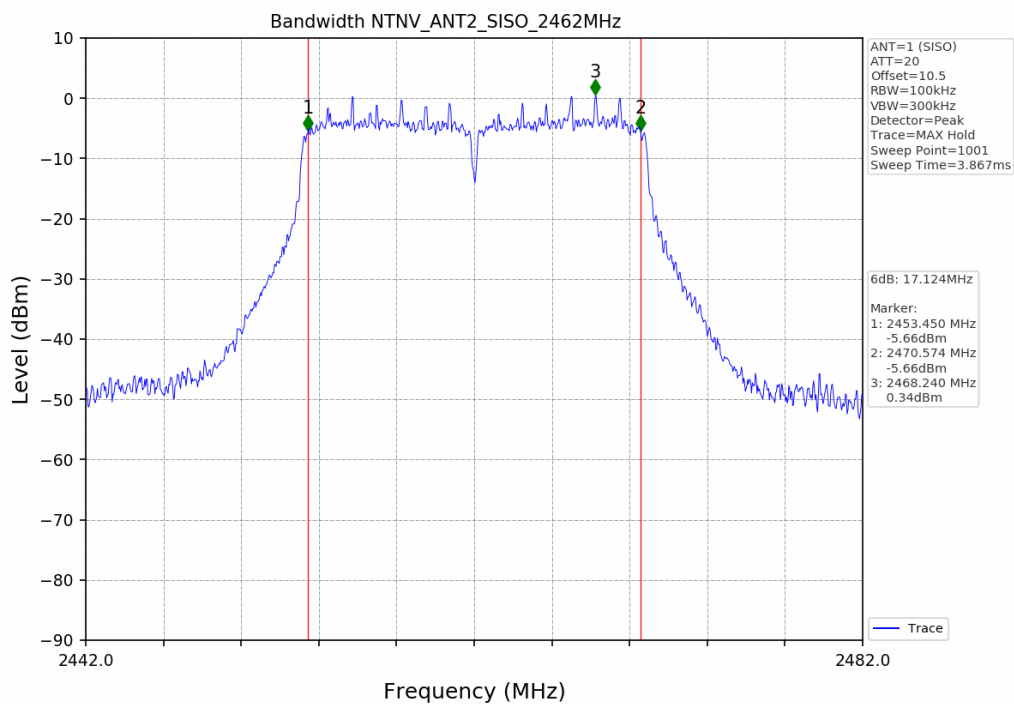
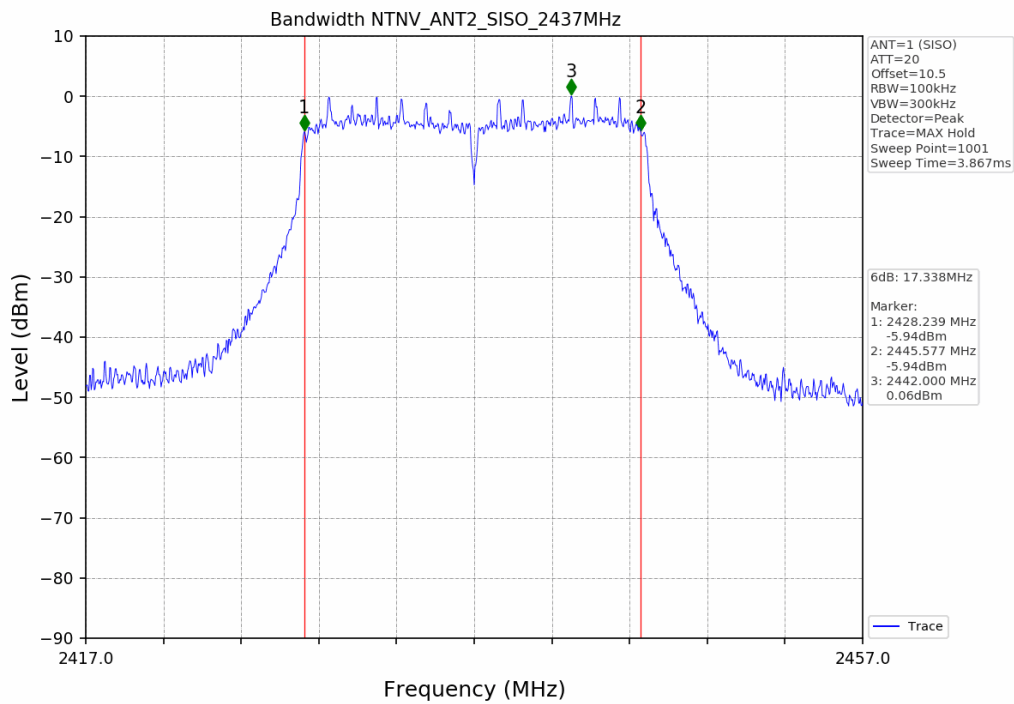
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11n(HT20)	2412	SISO	1	17.060	≥0.5	PASS
	2437	SISO	1	17.559	≥0.5	PASS
	2462	SISO	1	17.092	≥0.5	PASS
	2412	SISO	2	17.343	≥0.5	PASS
	2437	SISO	2	17.338	≥0.5	PASS
	2462	SISO	2	17.124	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11n(HT20)	2412	SISO	1	18.555	Only for Report Use
	2437	SISO	1	18.504	Only for Report Use
	2462	SISO	1	18.401	Only for Report Use
	2412	SISO	2	18.441	Only for Report Use
	2437	SISO	2	18.344	Only for Report Use
	2462	SISO	2	18.376	Only for Report Use

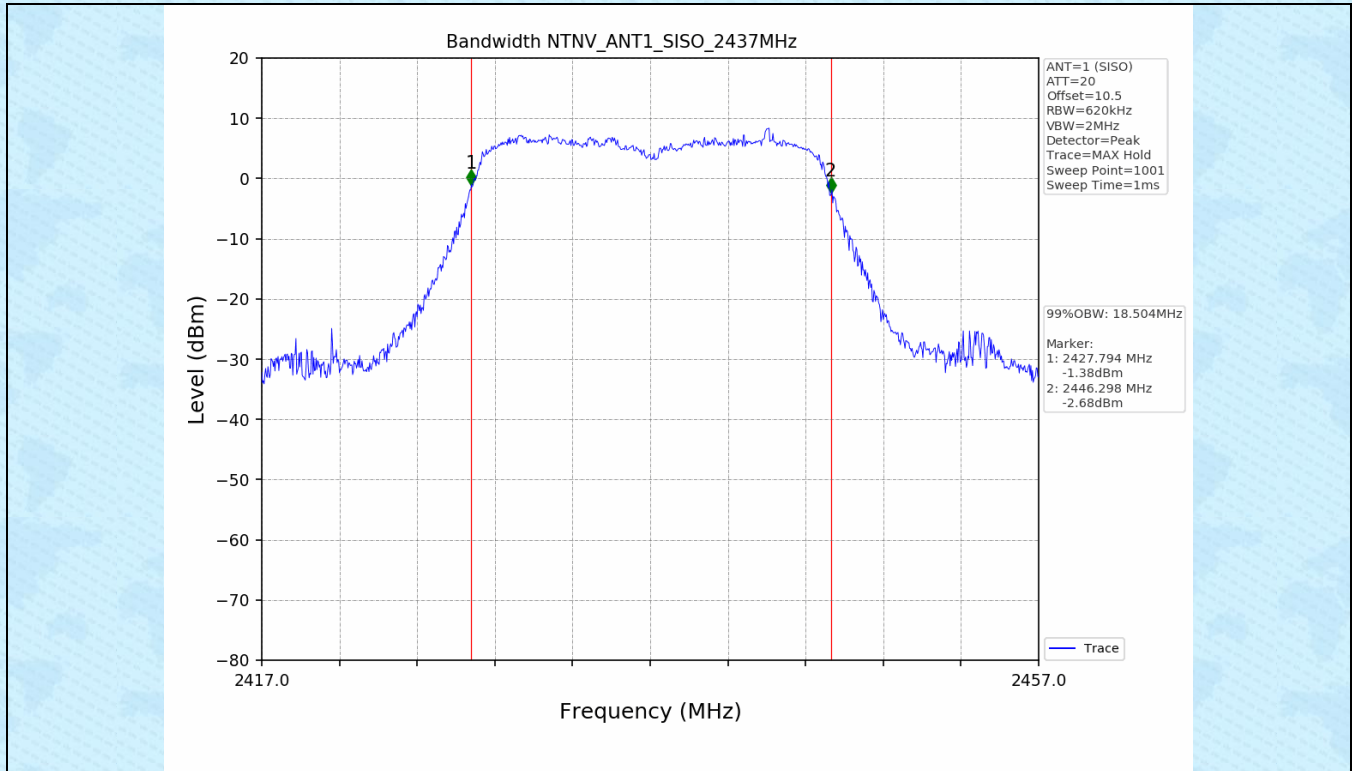
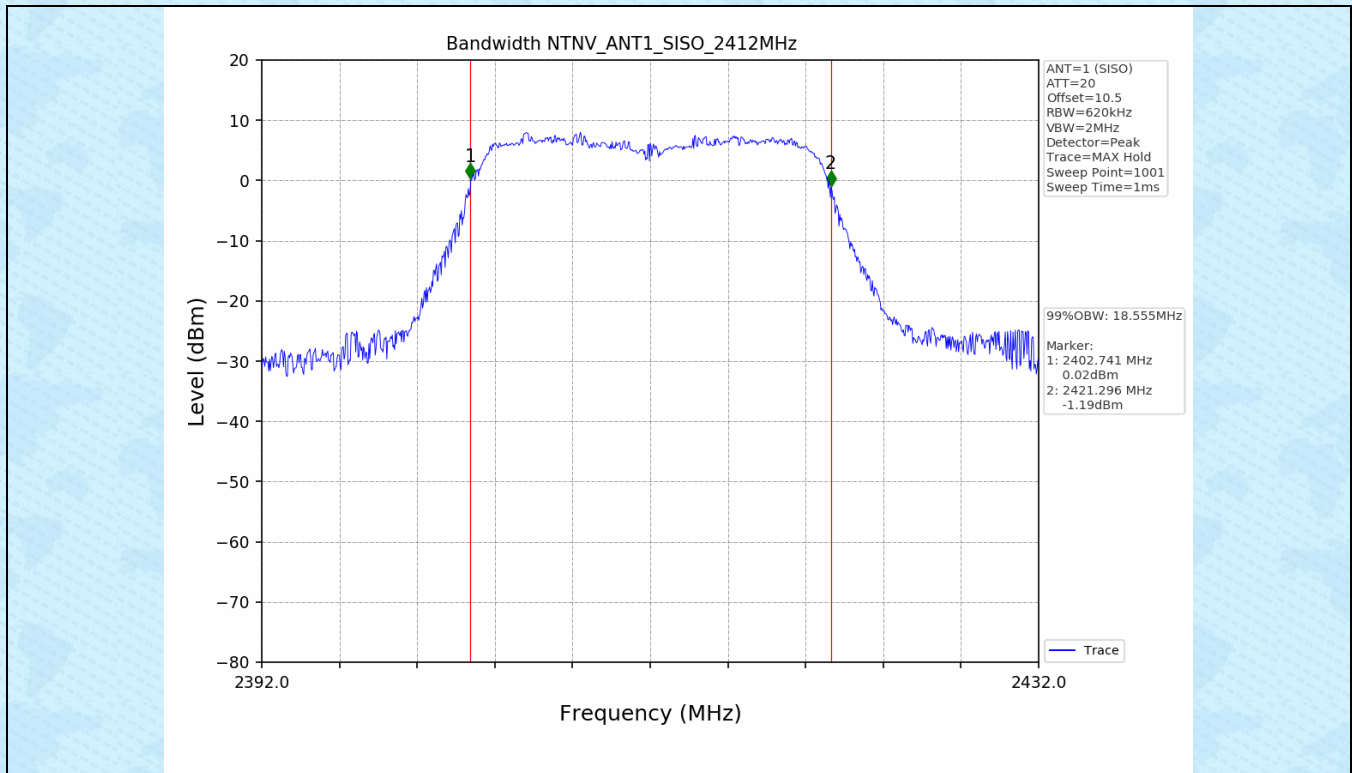
1.2 Test Graph - 6dB Bandwidth

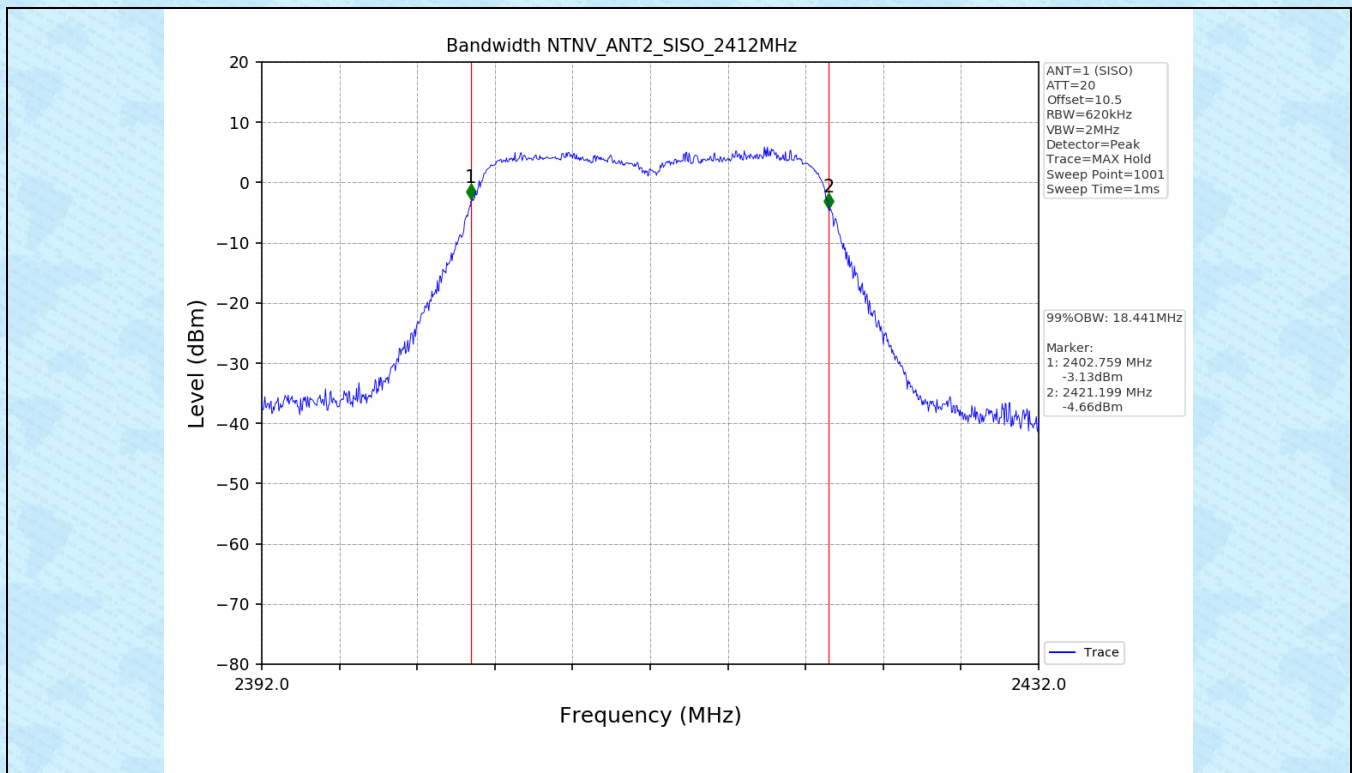
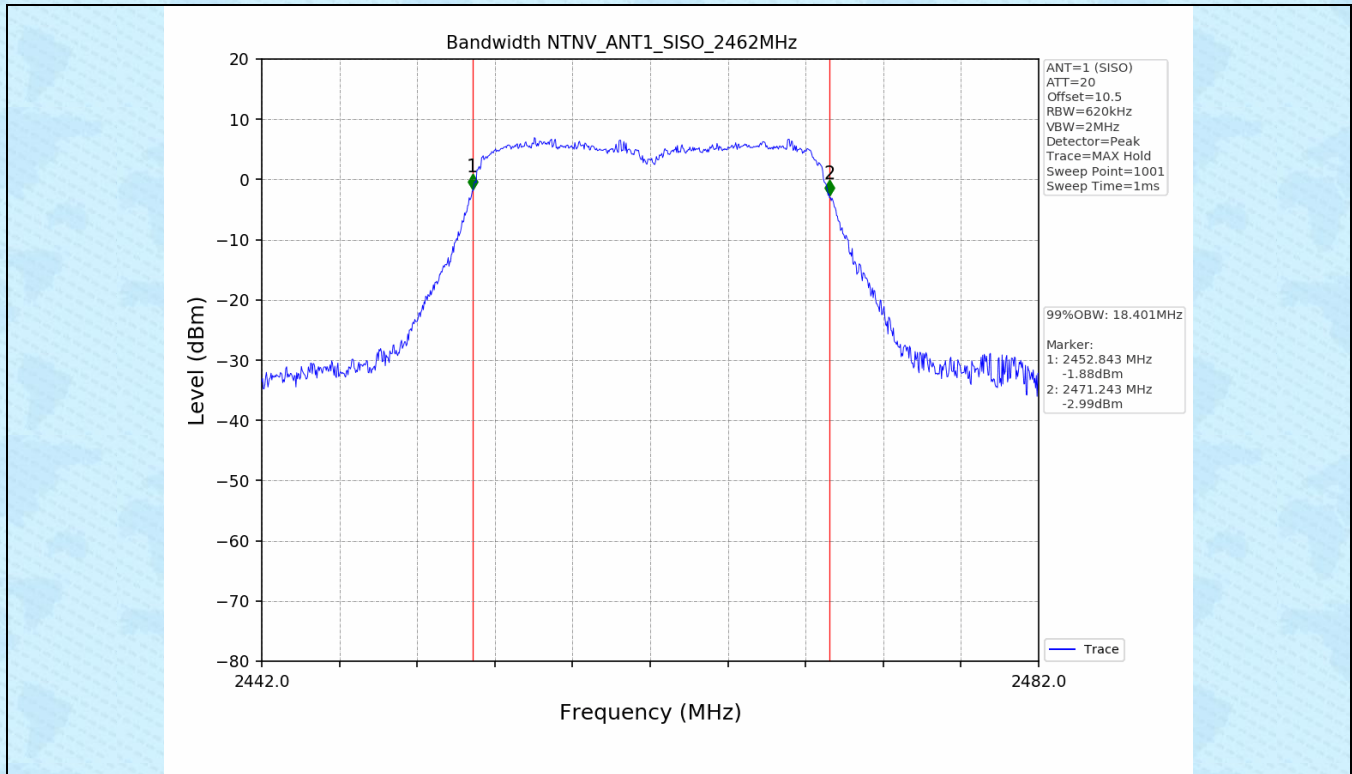


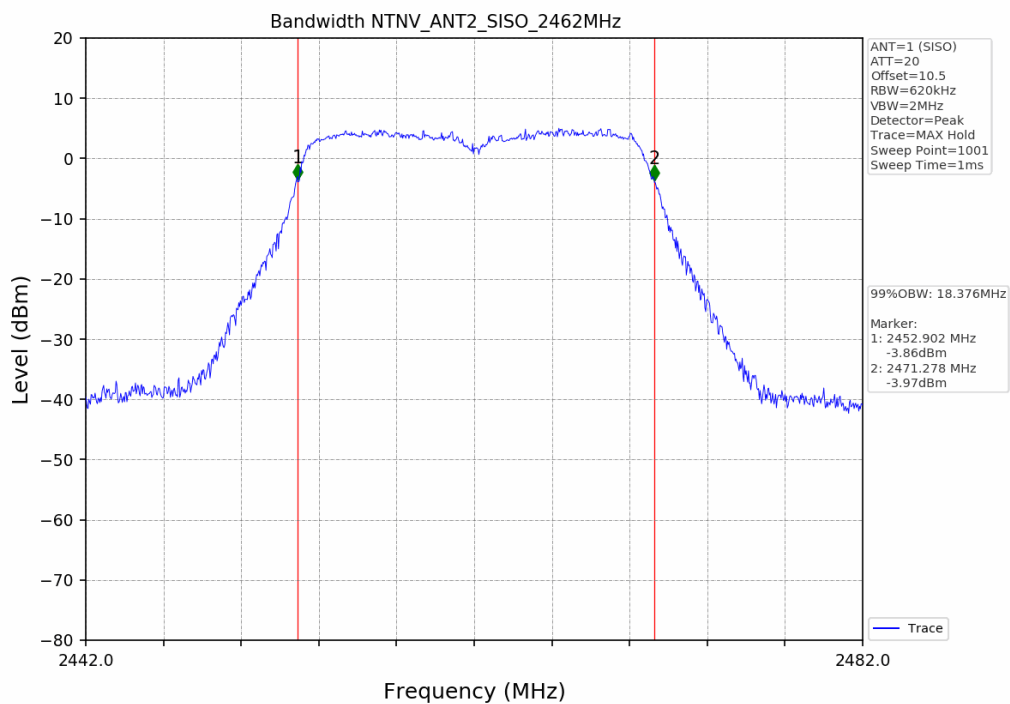
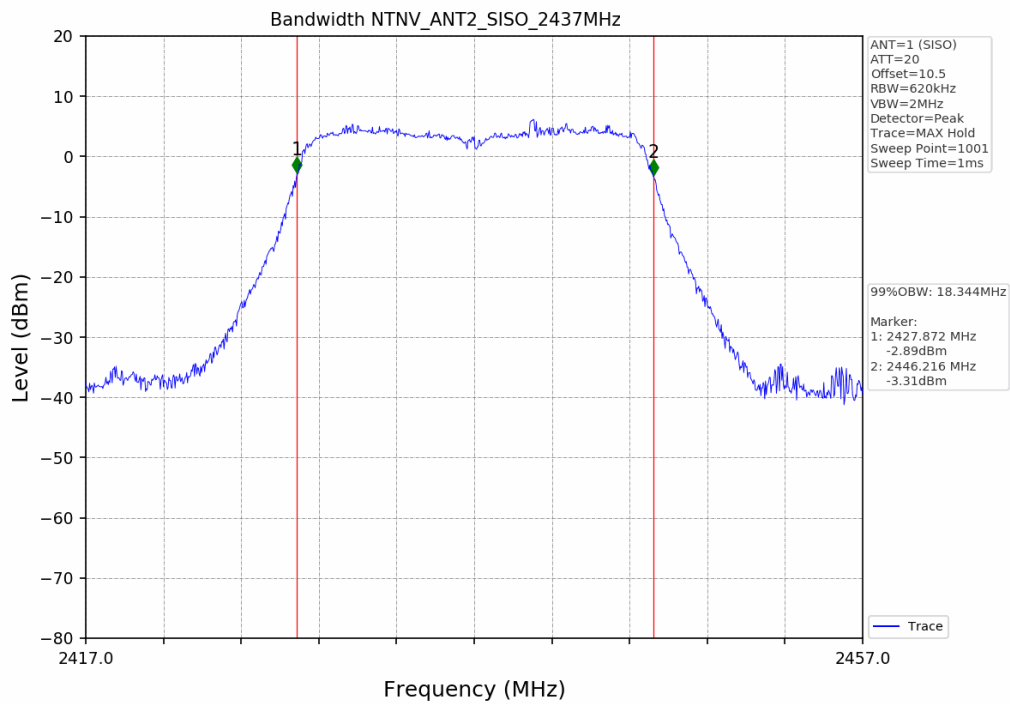




1.3 Test Graph - 99% Occupied Bandwidth







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		
802.11n(HT20)	2412	SISO	20.98	30	PASS
	2437	SISO	20.71	30	PASS
	2462	SISO	20.16	30	PASS

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 2		
802.11n(HT20)	2412	SISO	18.88	30	PASS
	2437	SISO	18.83	30	PASS
	2462	SISO	18.79	30	PASS

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
802.11n(HT20)	2412	MIMO	23.07	30	PASS
	2437	MIMO	22.88	30	PASS
	2462	MIMO	22.54	30	PASS

Note: transmit signals are completely correlated,
Directional gain= $10 \times \log[(10^{2.88/20} + 10^{1.25/20})^2/2] = 5.11\text{dBi}$

3. Maximum Power Spectral Density (PSD)

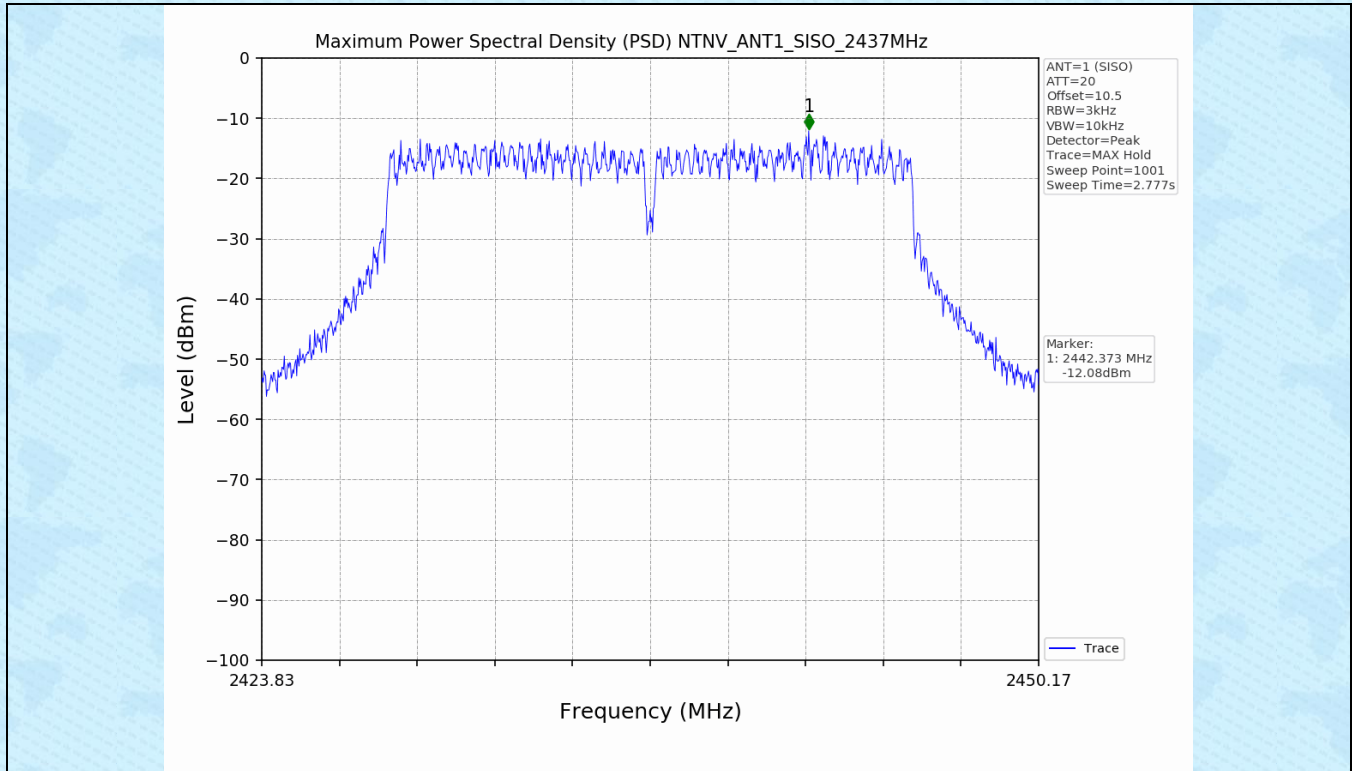
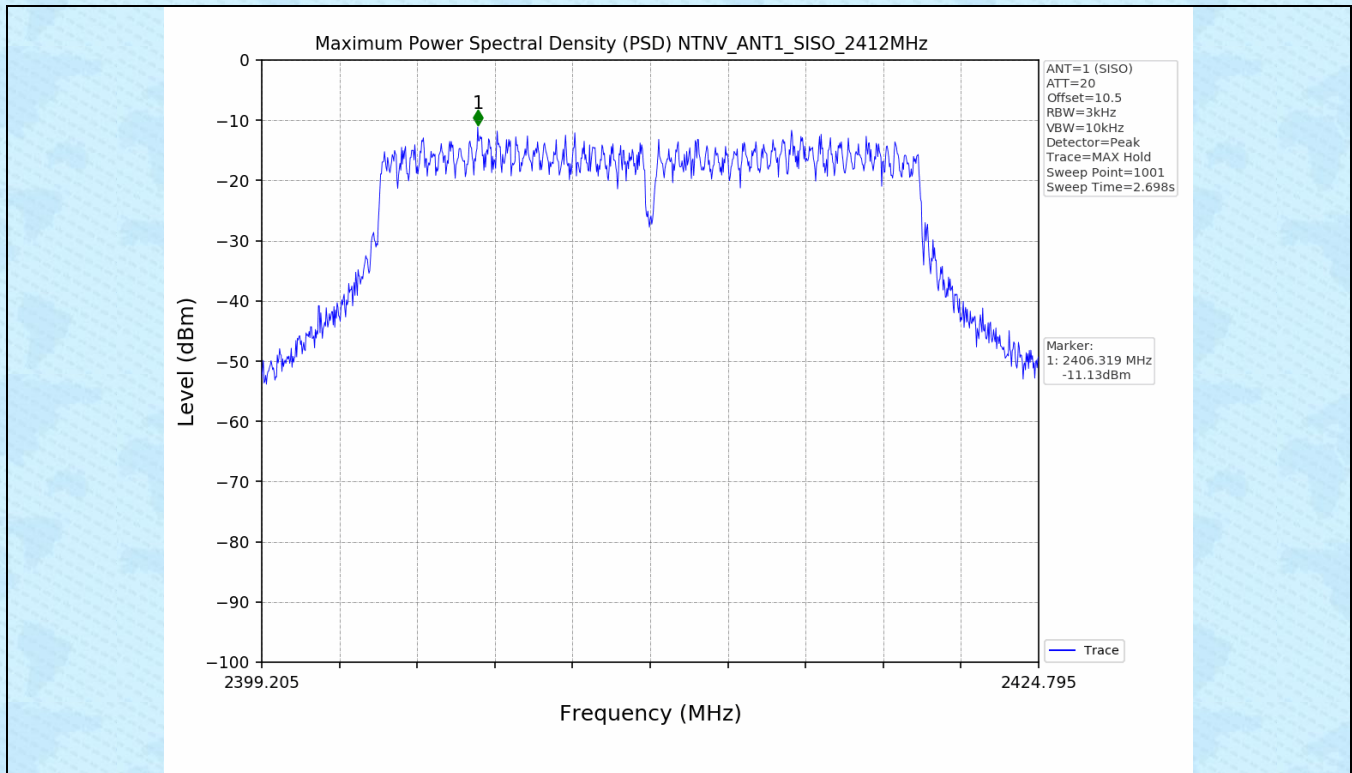
3.1 Test Result

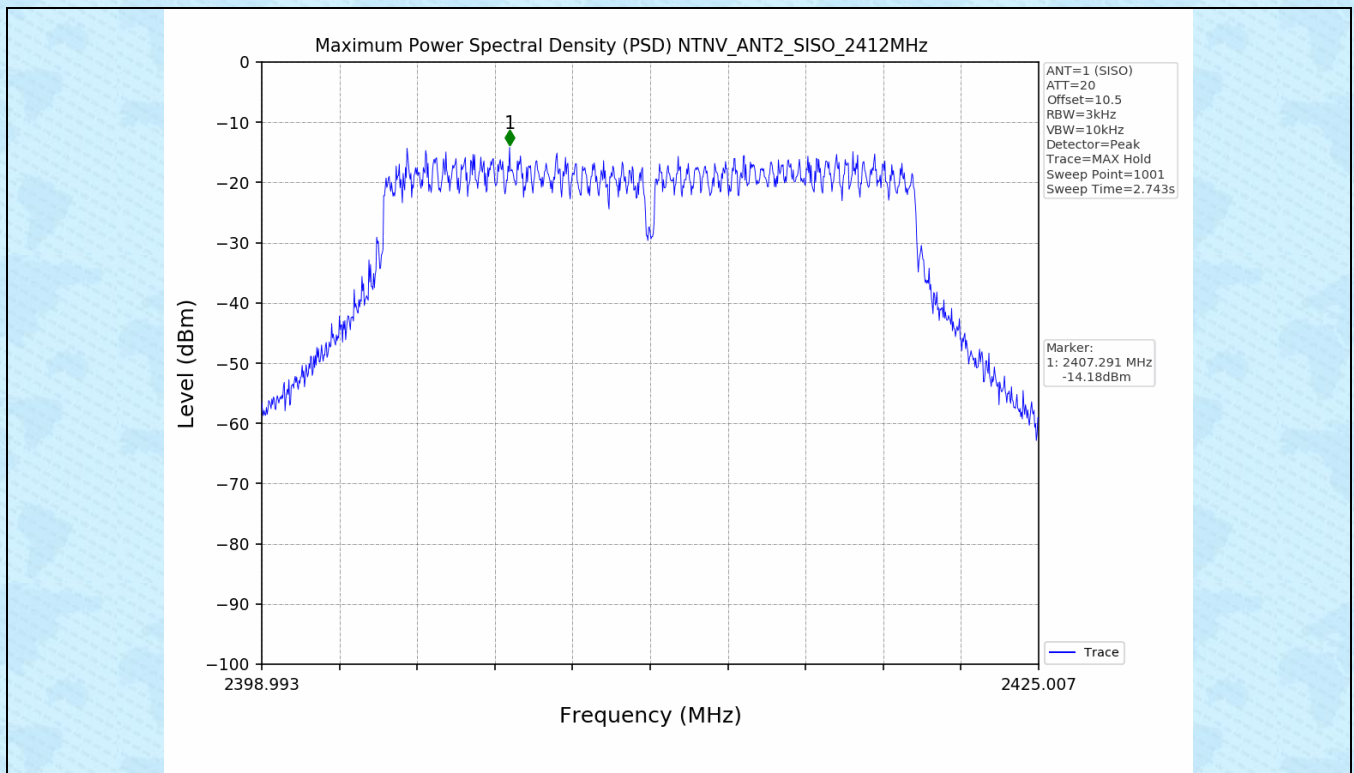
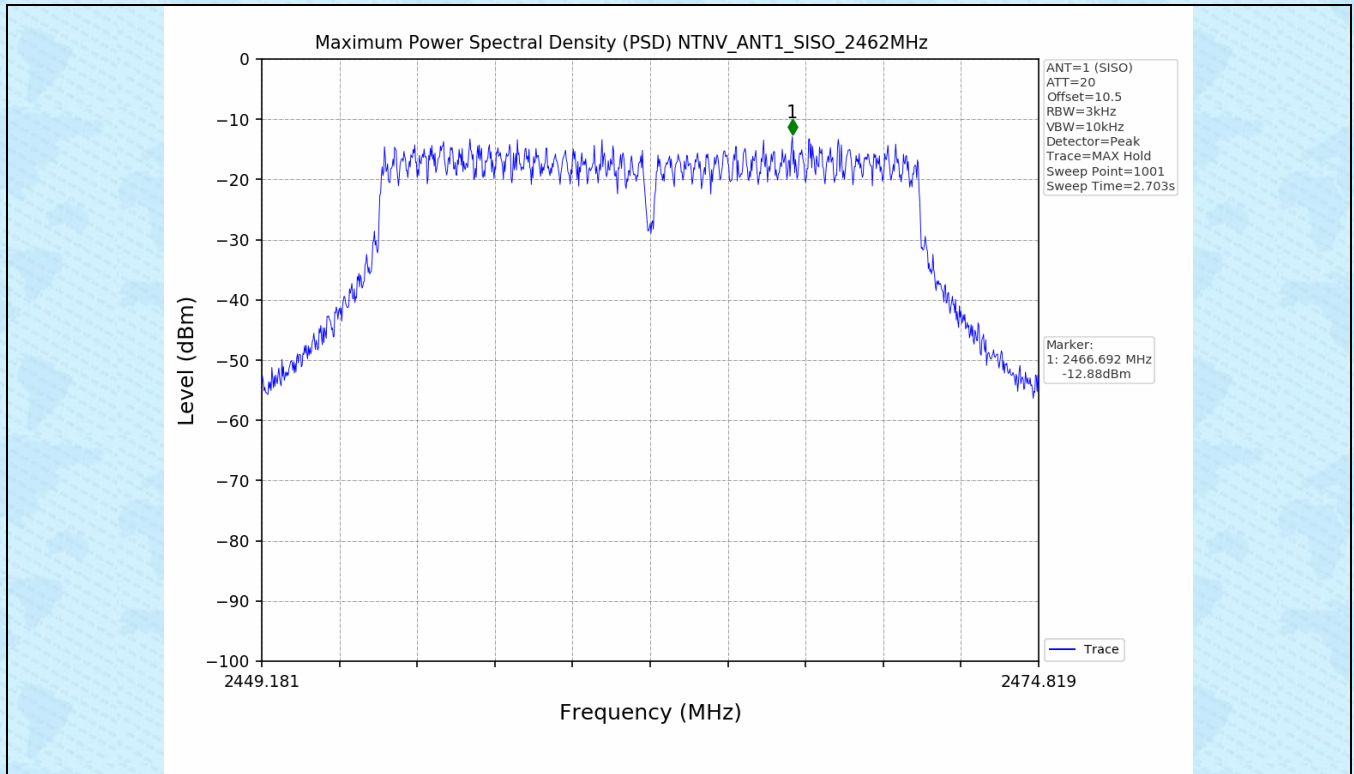
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11n(HT20)	2412	SISO	-11.13	≤8	PASS
	2437	SISO	-12.08	≤8	PASS
	2462	SISO	-12.88	≤8	PASS

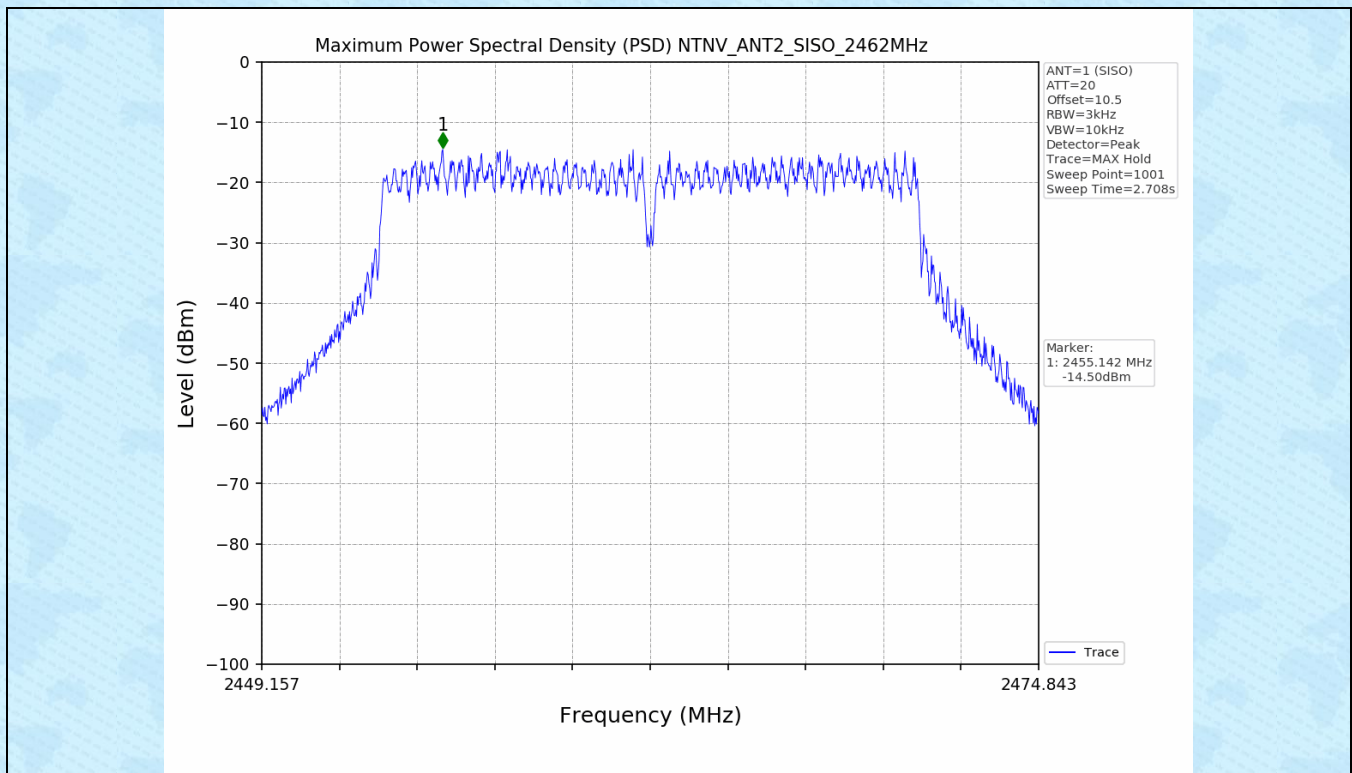
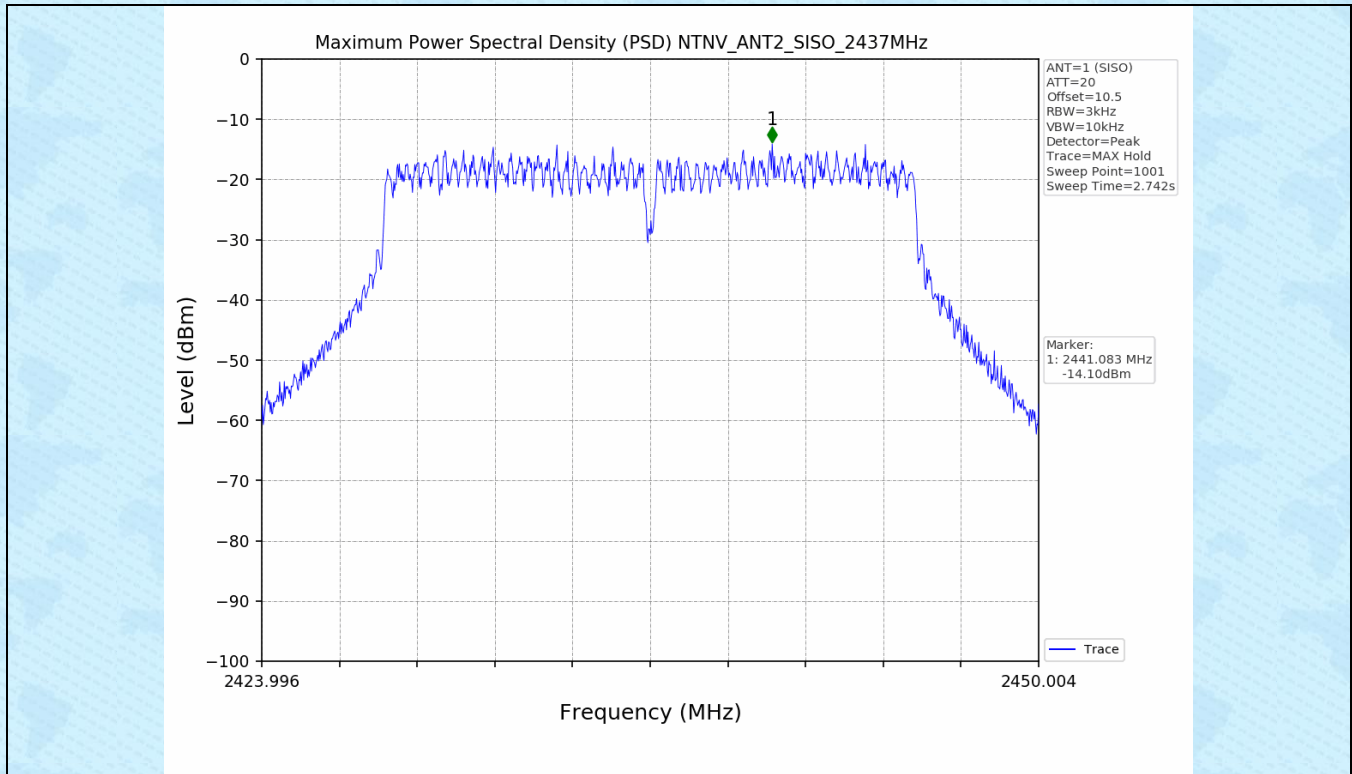
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 2		
802.11n(HT20)	2412	SISO	-14.18	≤8	PASS
	2437	SISO	-14.10	≤8	PASS
	2462	SISO	-14.50	≤8	PASS

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
802.11n(HT20)	2412	MIMO	-9.38	≤8	PASS
	2437	MIMO	-9.96	≤8	PASS
	2462	MIMO	-10.60	≤8	PASS

3.2 Test Graph





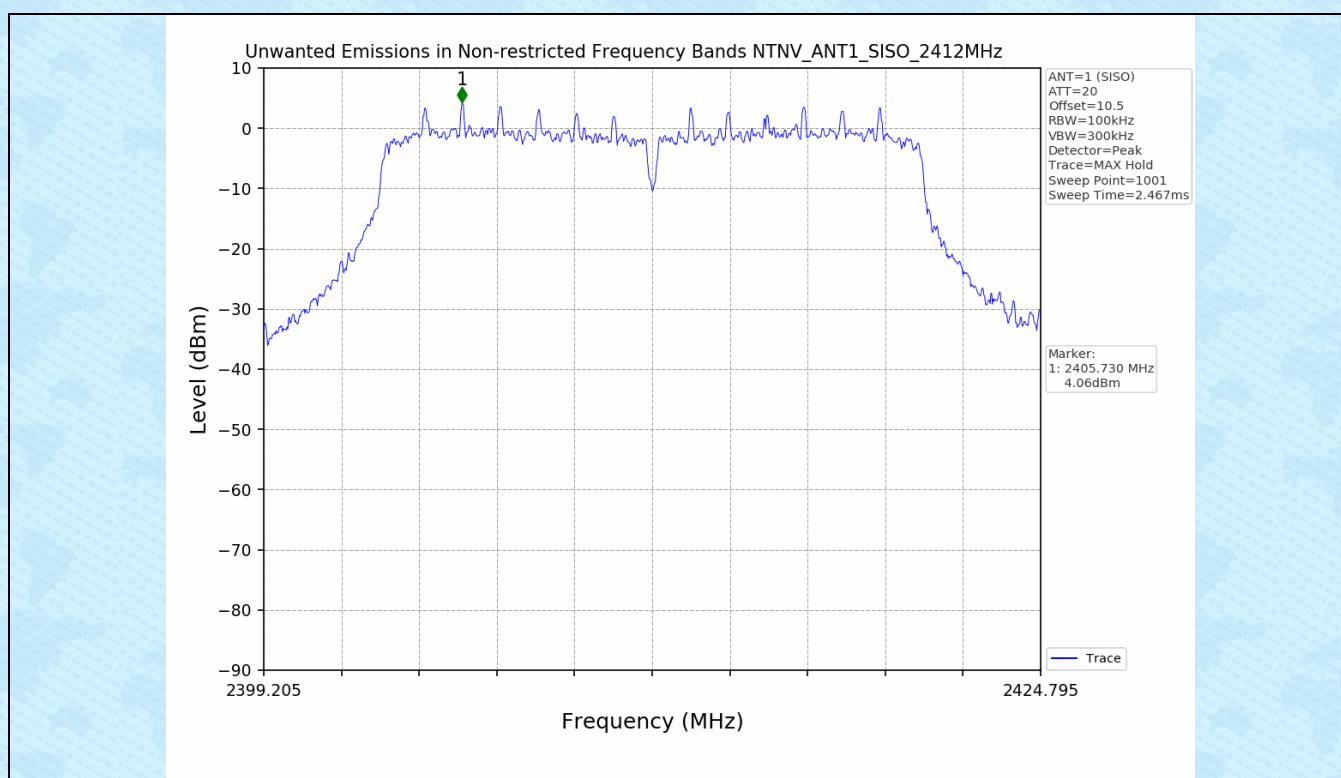


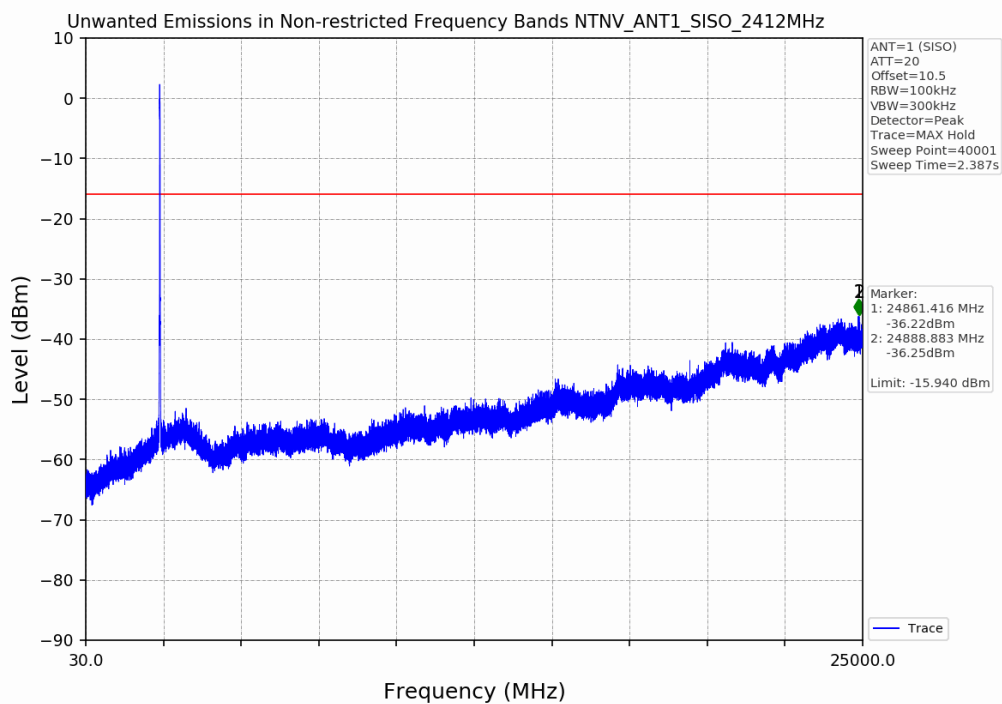
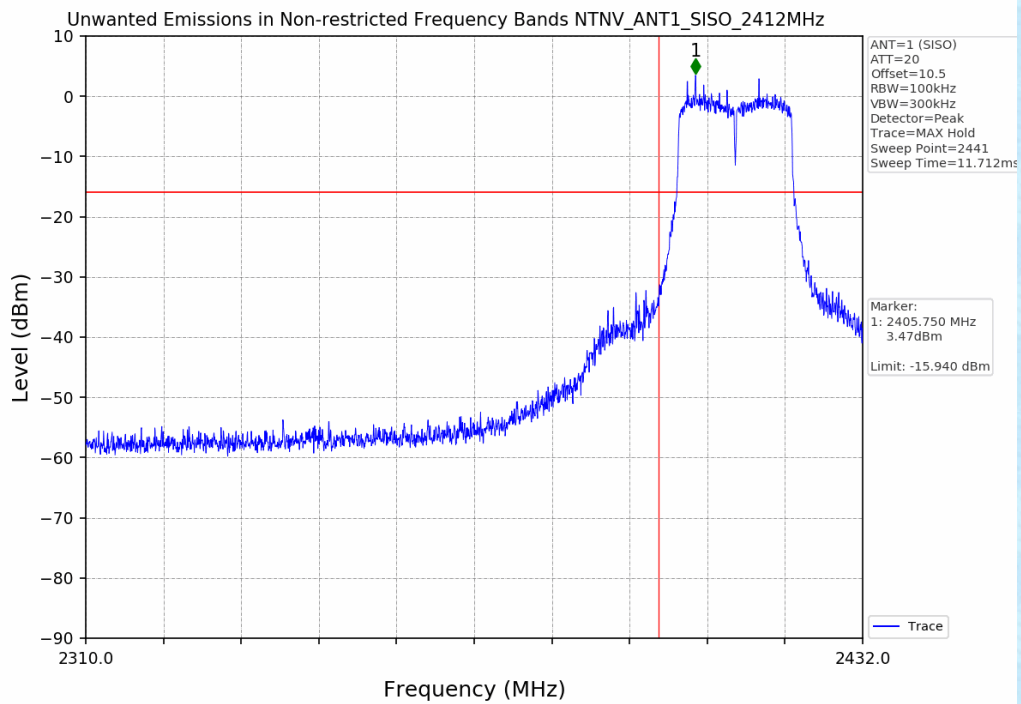
4. Unwanted Emissions in Non-restricted Frequency Bands

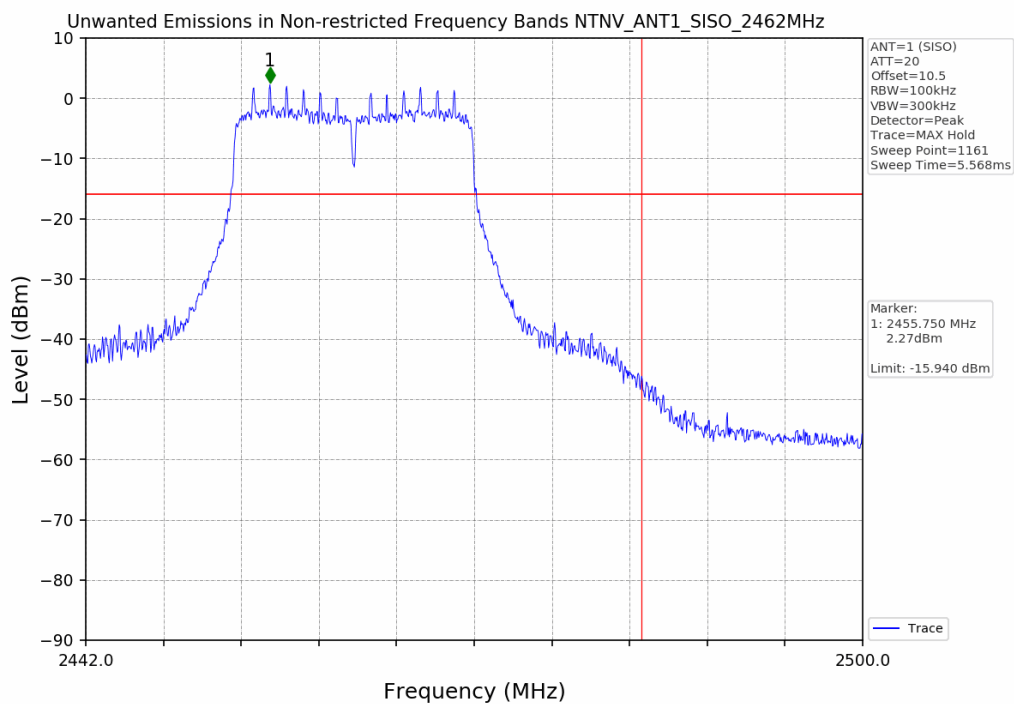
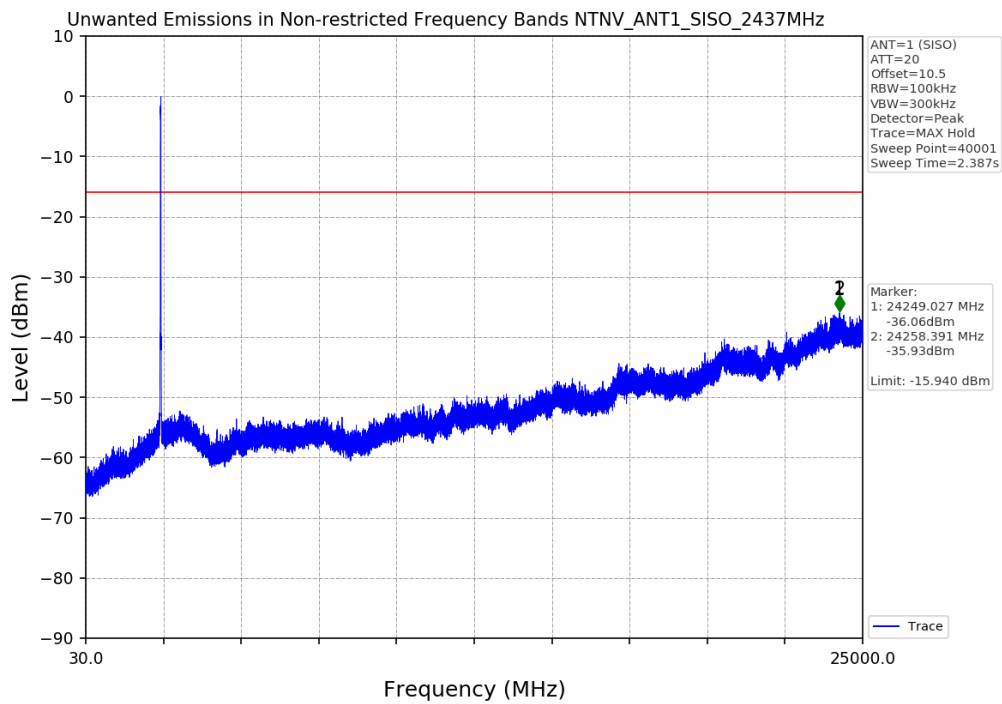
4.1 Test Result

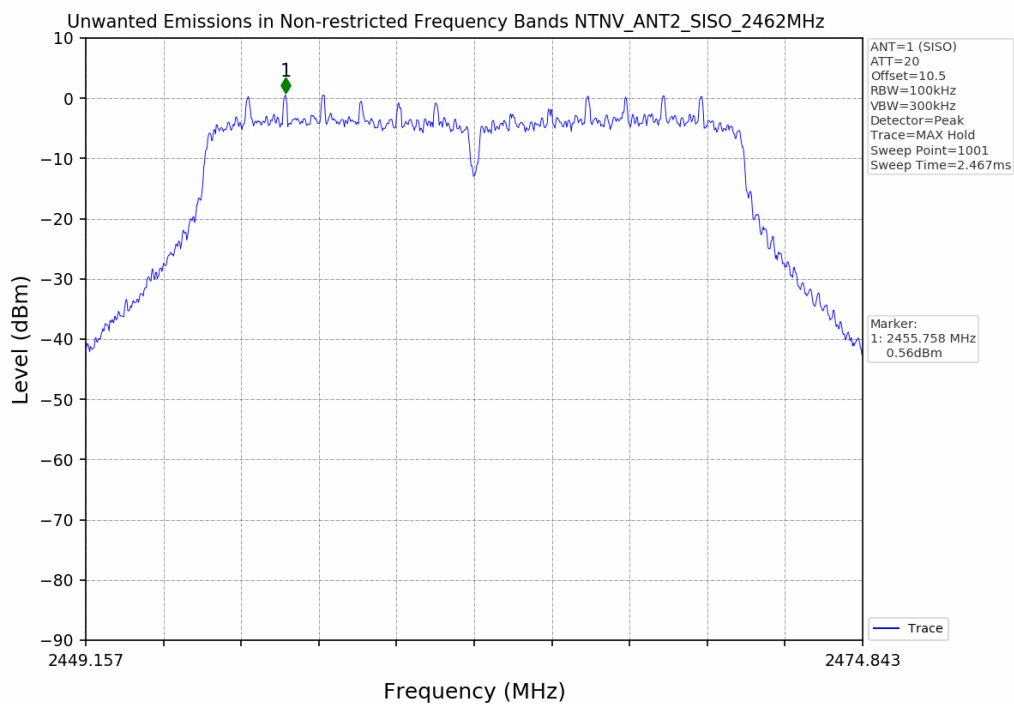
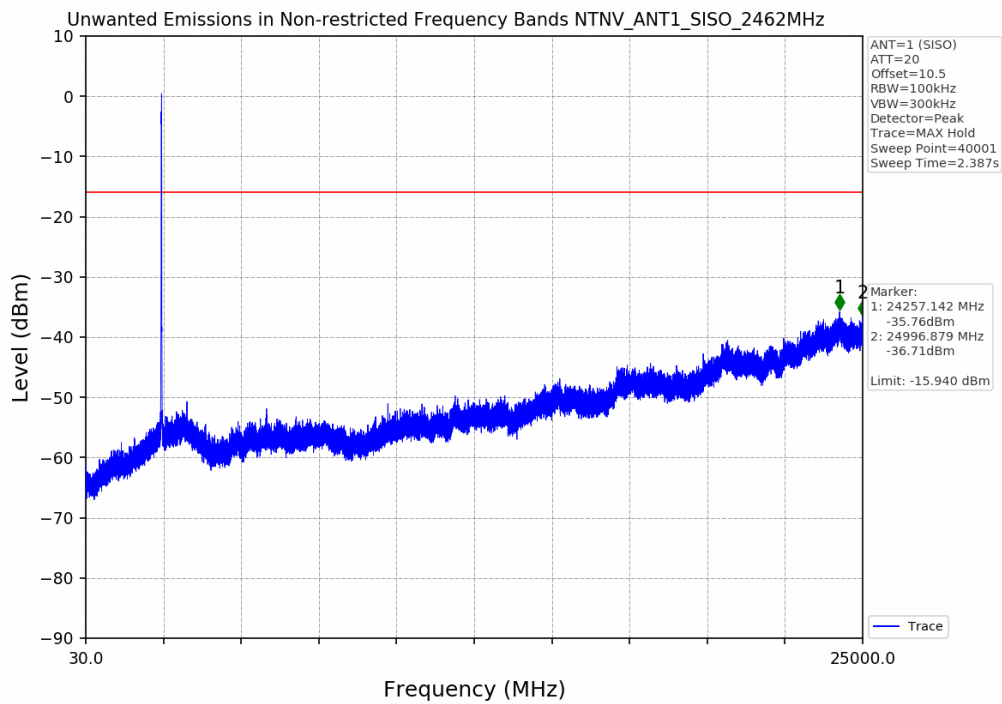
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11n(HT20)	2412	SISO	1	Refer to test graph	-15.94	PASS
	2437	SISO	1	Refer to test graph	-15.94	PASS
	2462	SISO	1	Refer to test graph	-15.94	PASS
	2412	SISO	2	Refer to test graph	-19.44	PASS
	2437	SISO	2	Refer to test graph	-19.44	PASS
	2462	SISO	2	Refer to test graph	-19.44	PASS

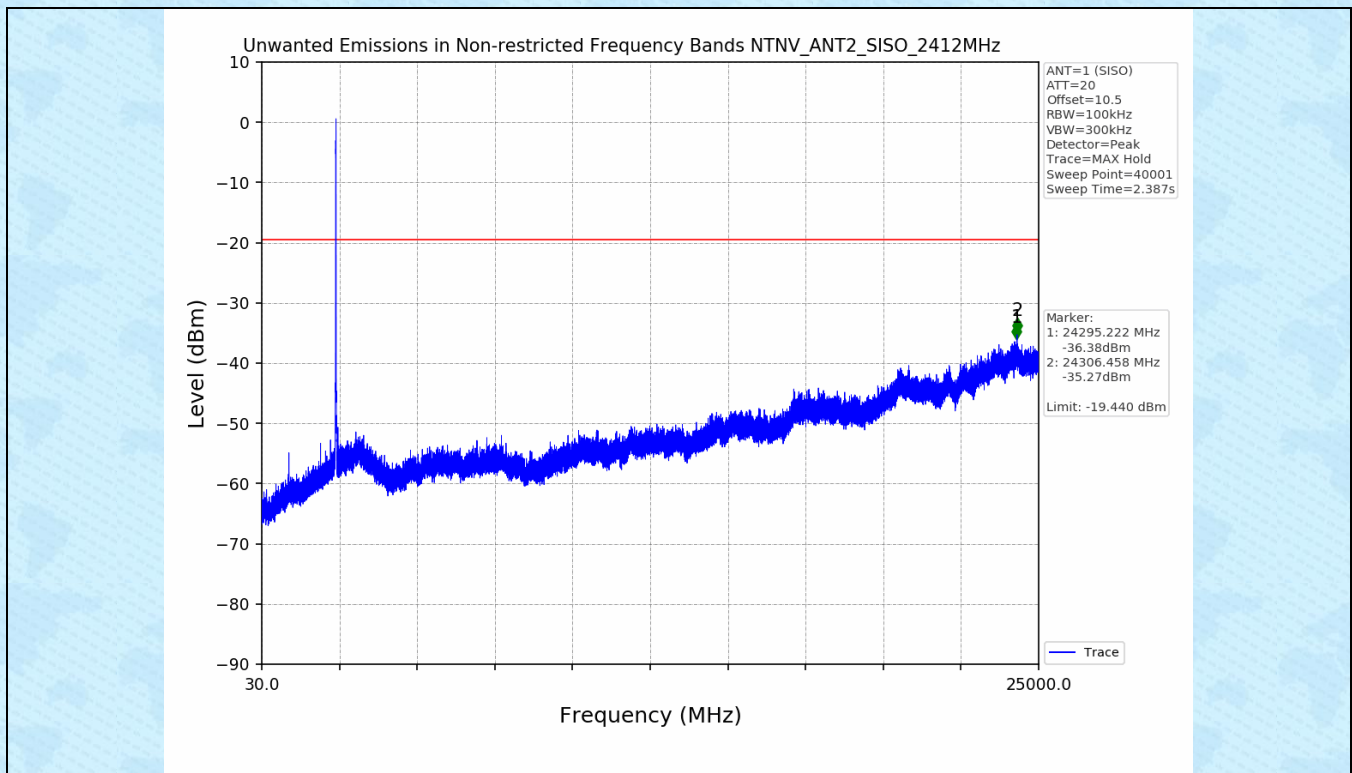
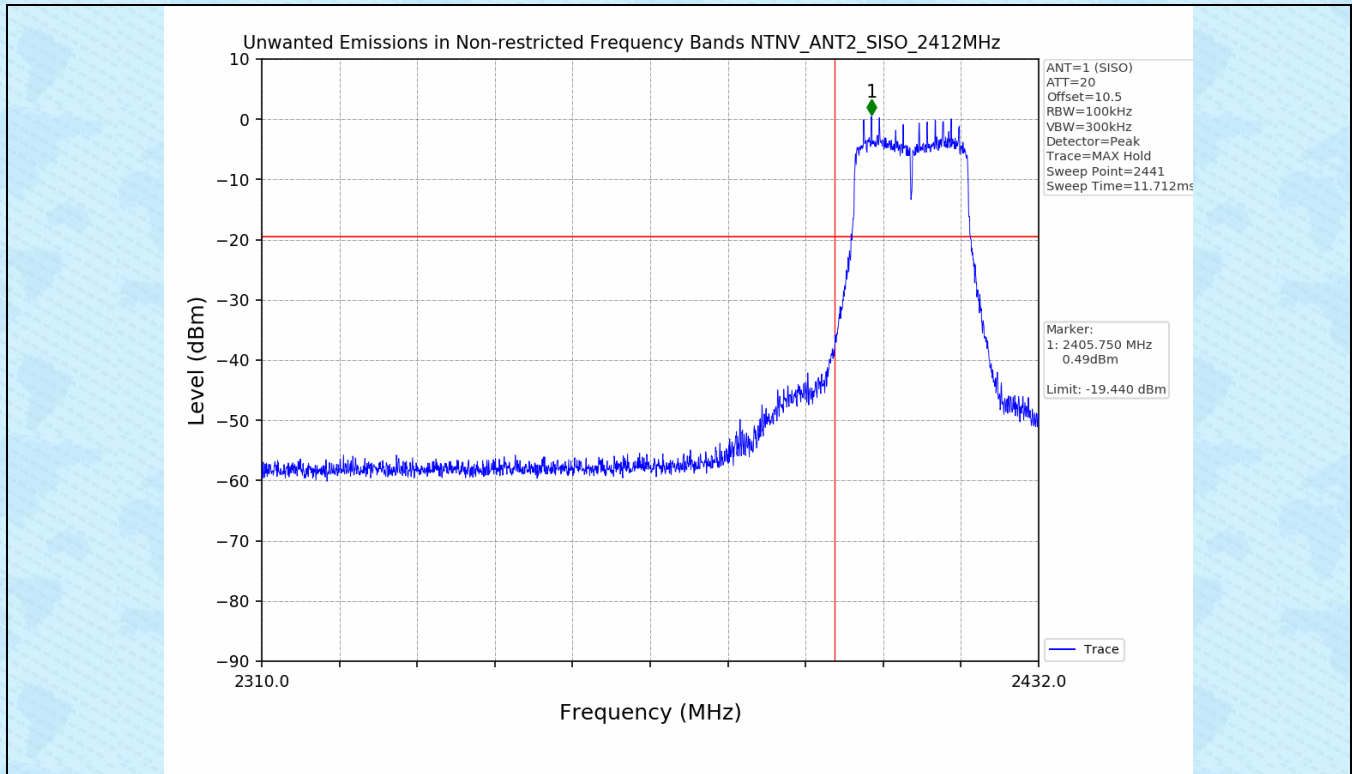
4.2 Test Graph

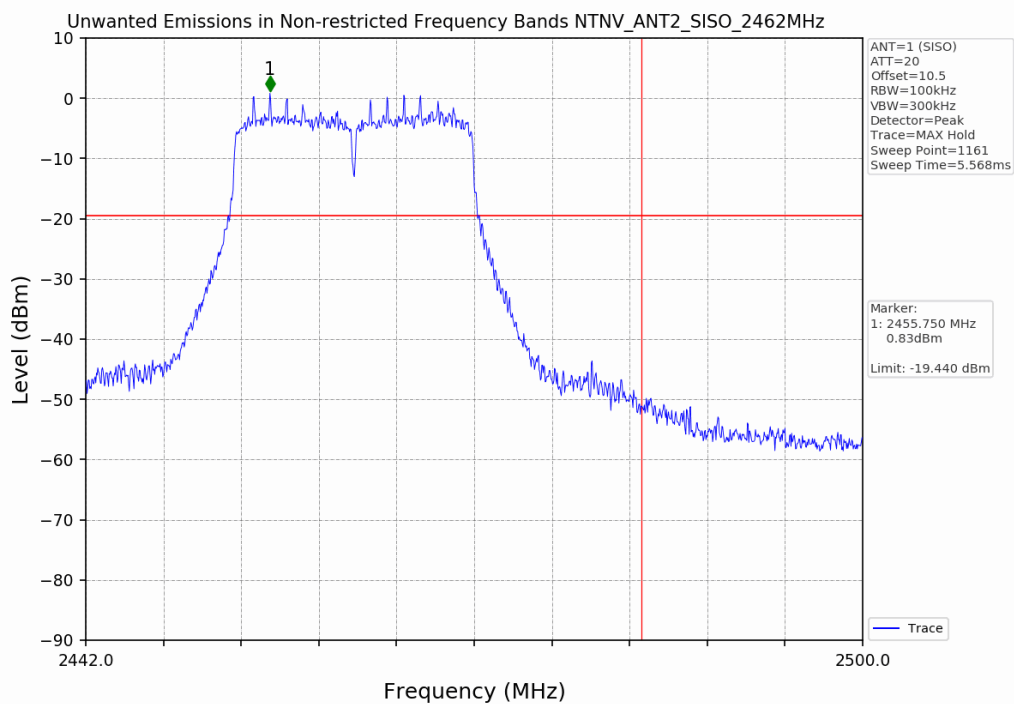
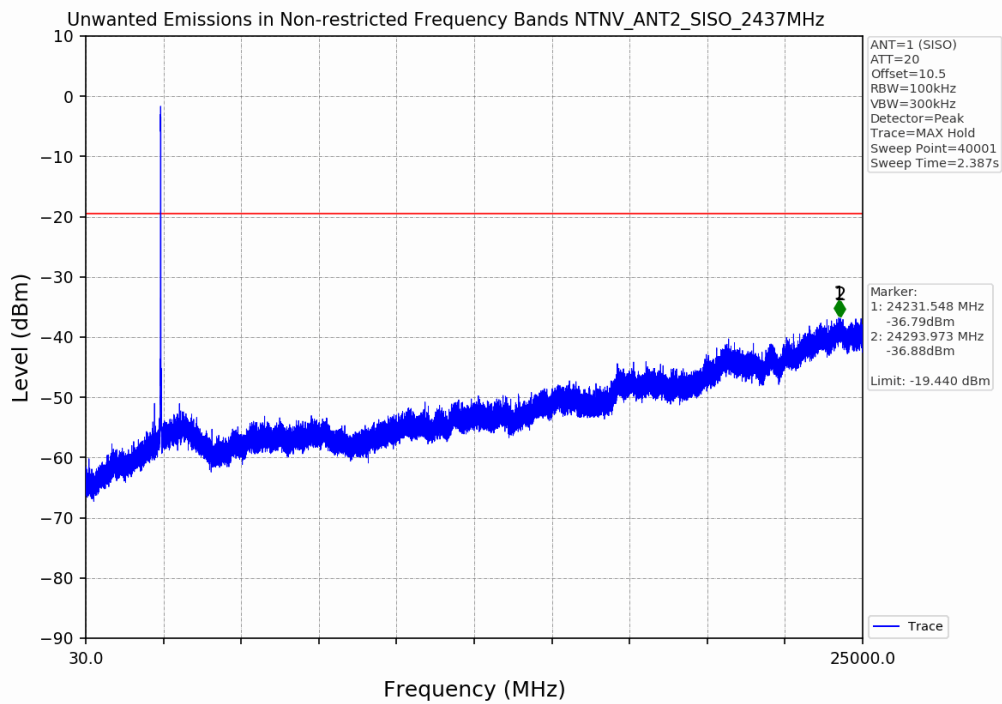


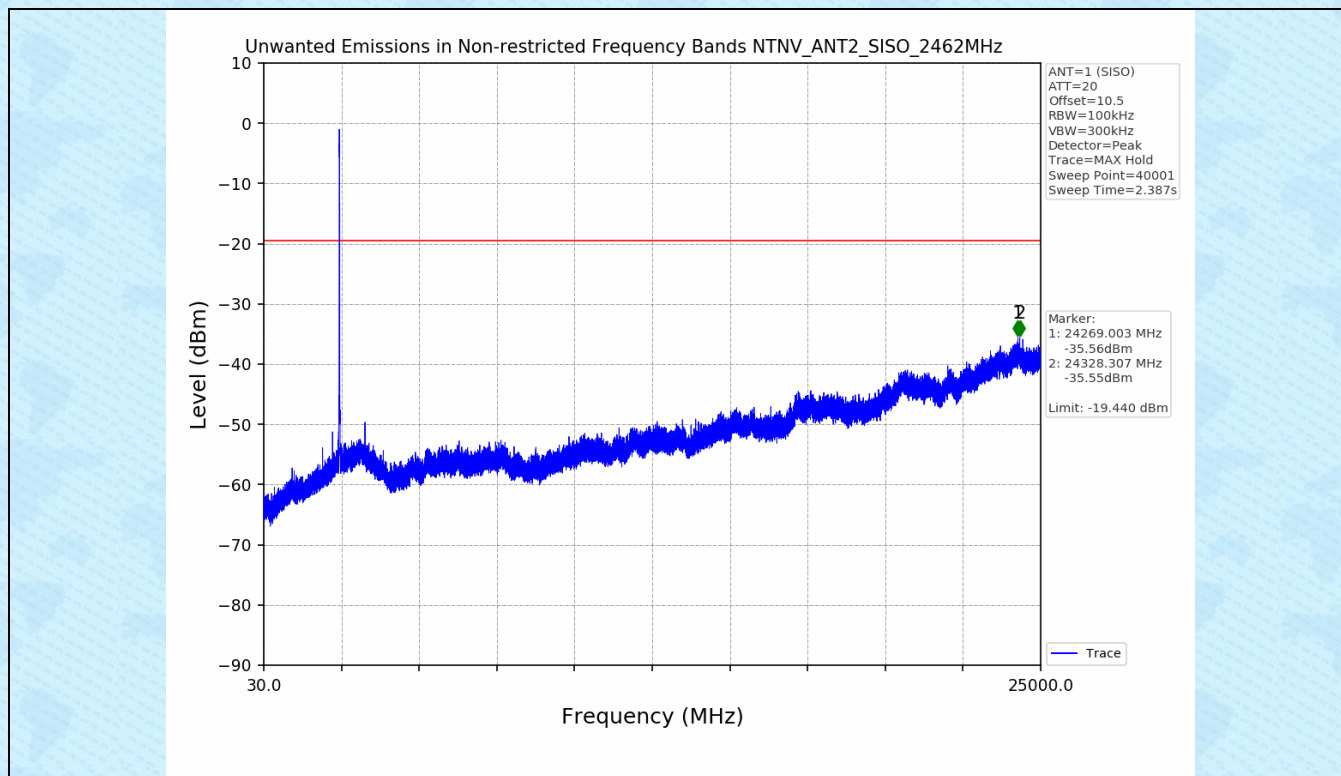












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