

Appendix for 15.247

Product Name: Ble Gateway

Test Model: G20

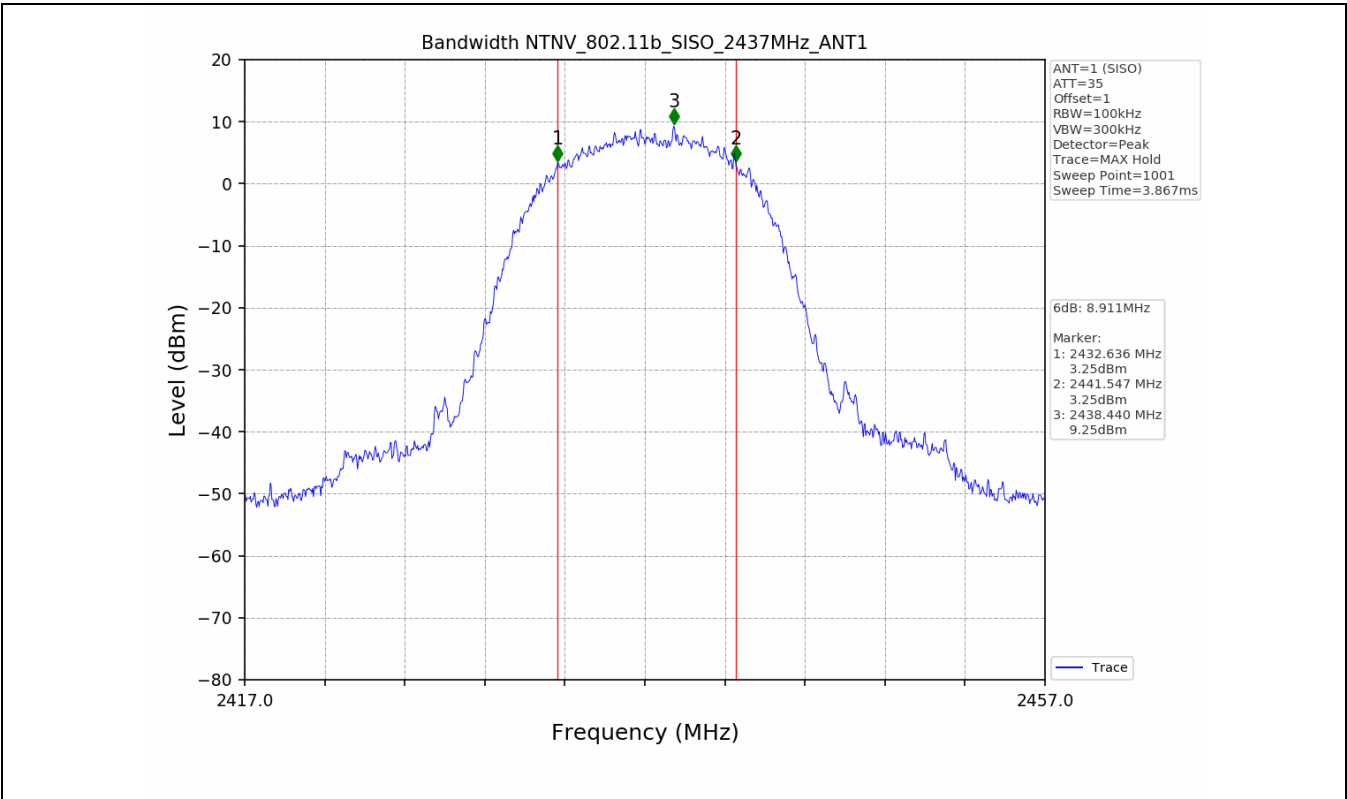
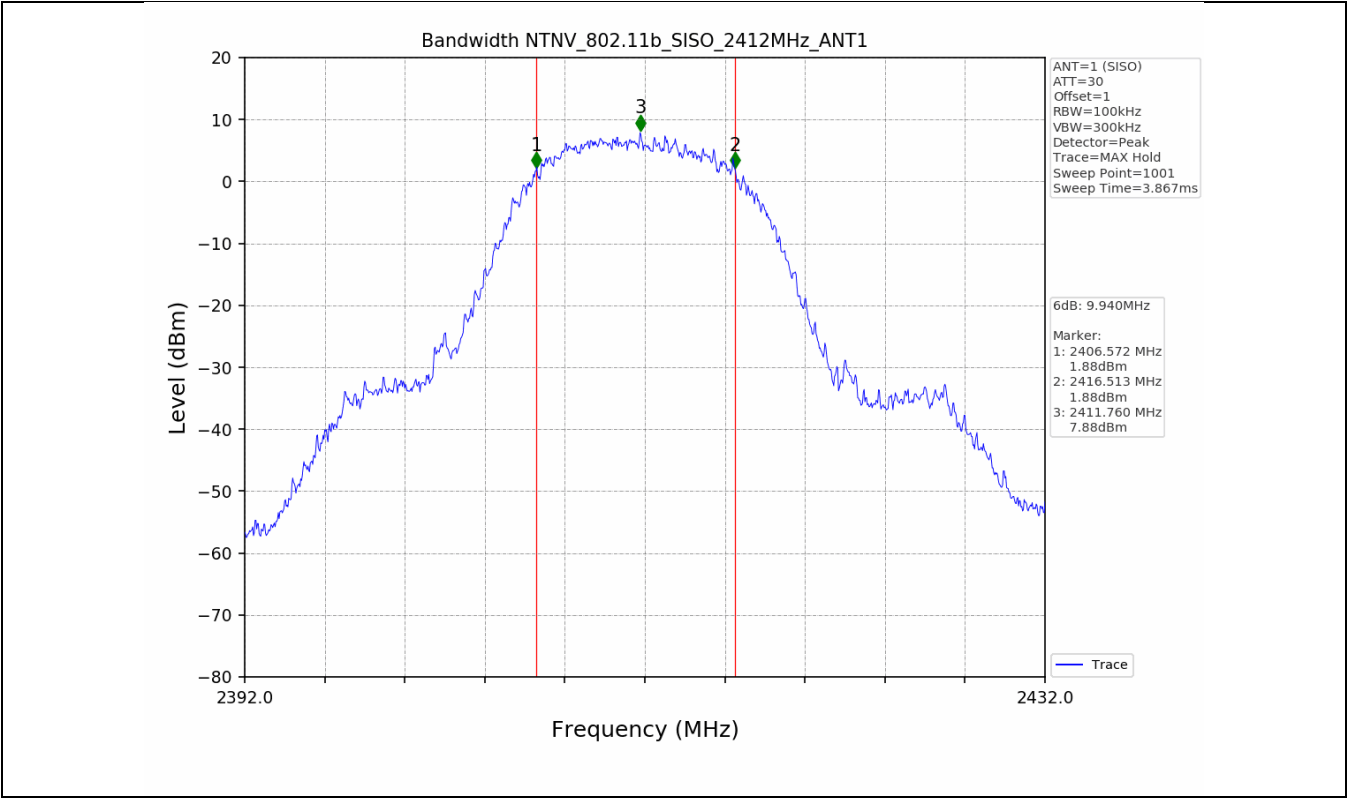
1. Bandwidth

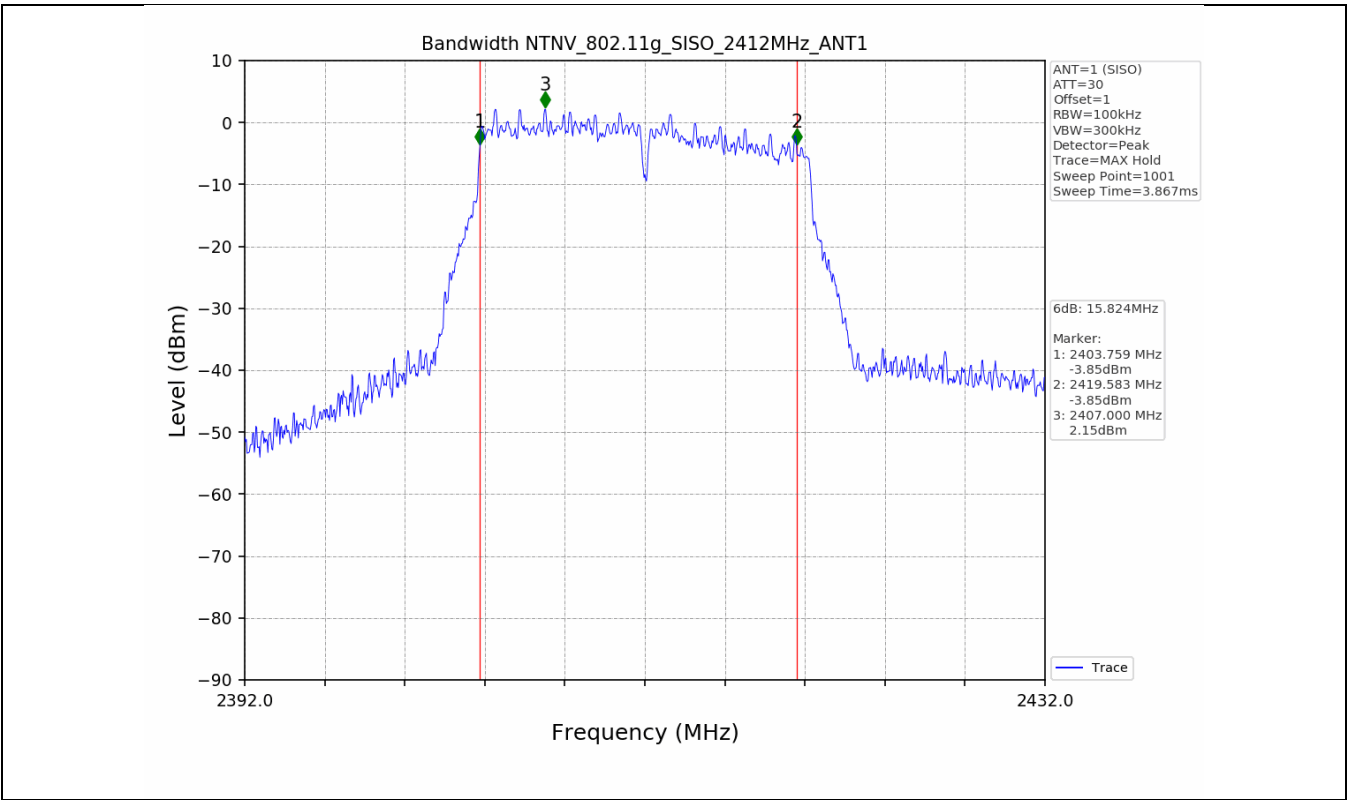
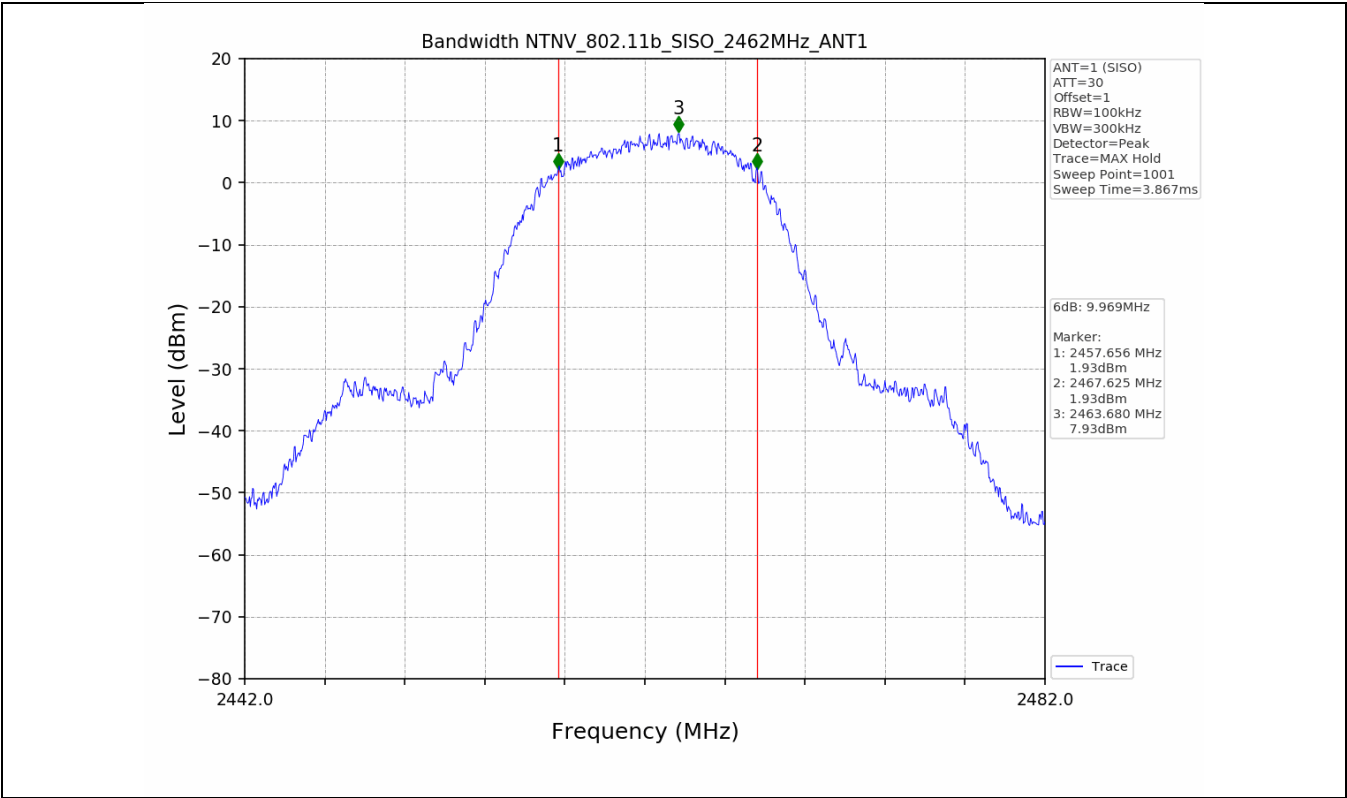
1.1 Test Result

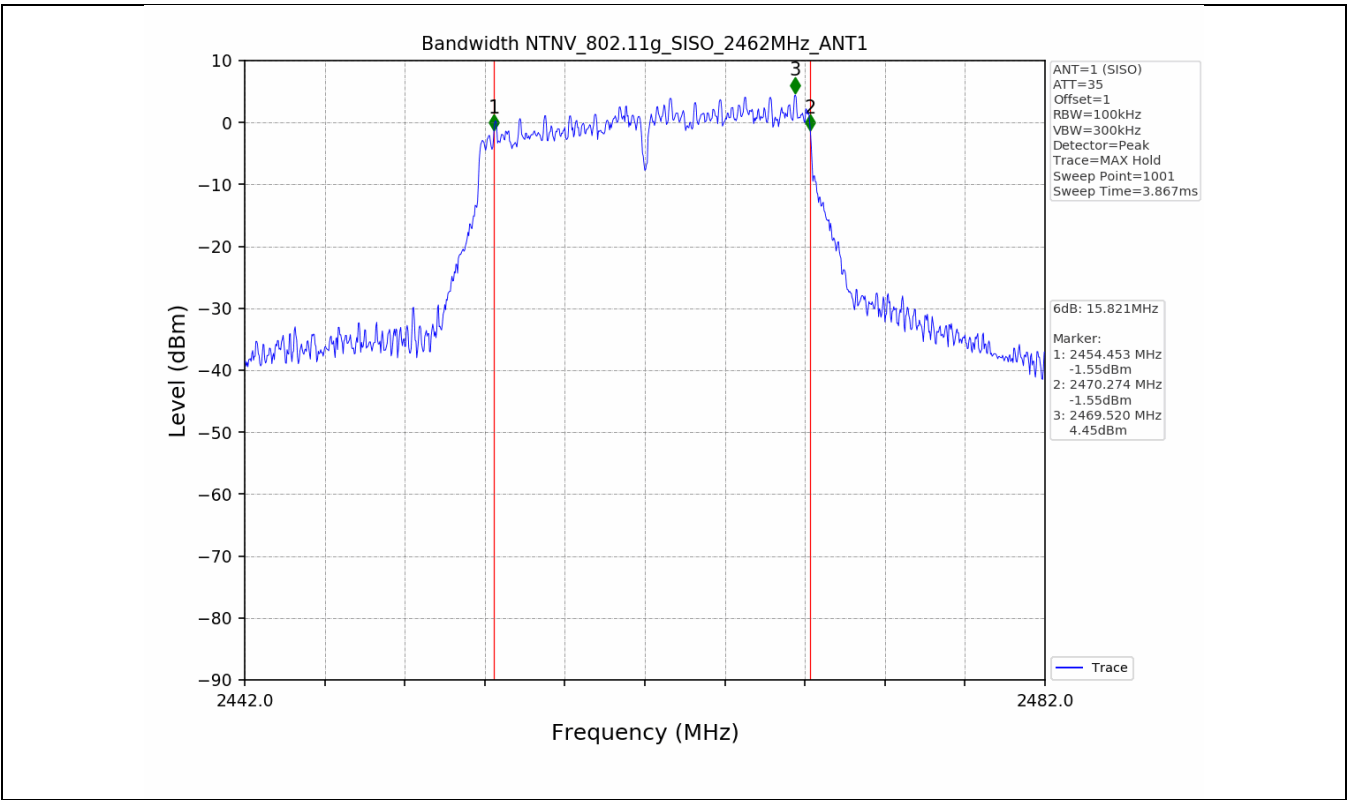
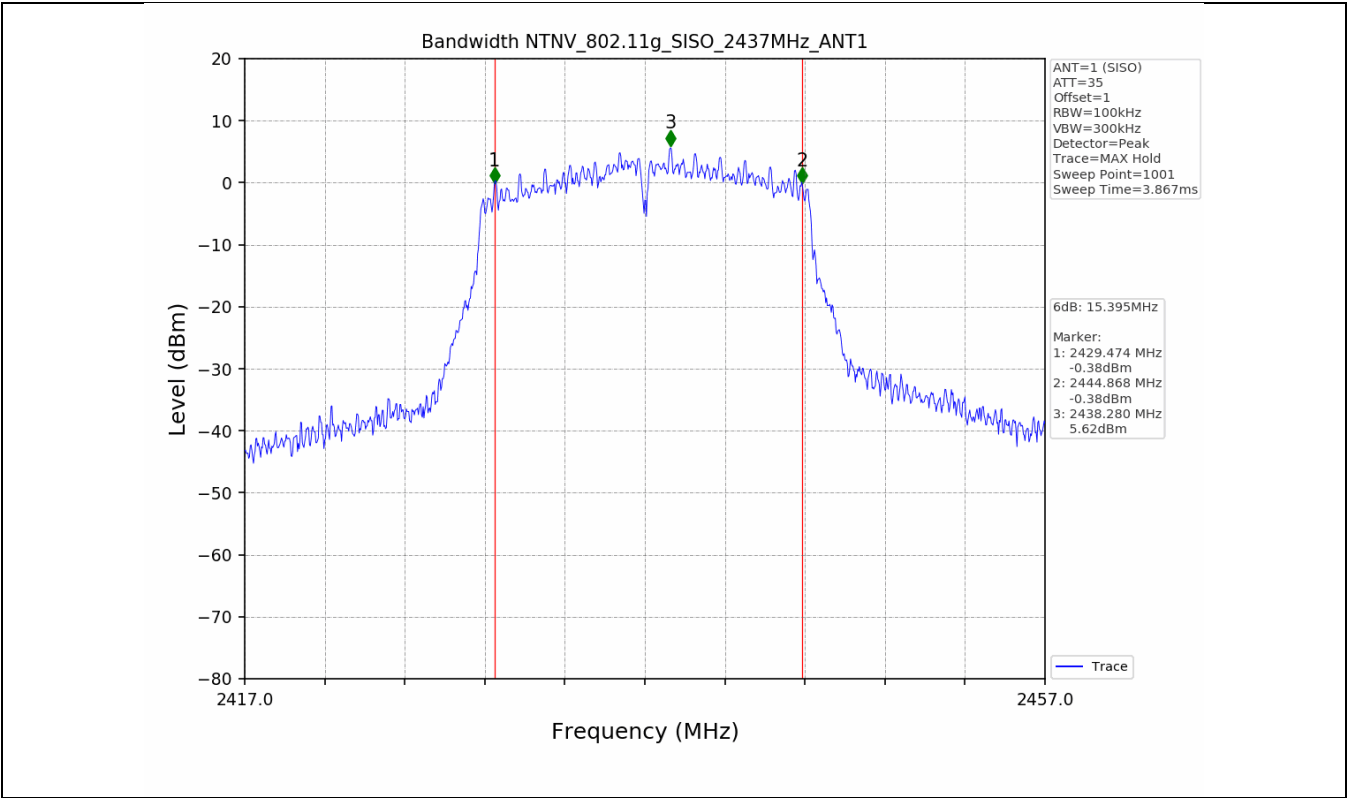
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth	Verdict
				Test Result (MHz)	
802.11b	2412	SISO	1	9.940	PASS
	2437	SISO	1	8.911	PASS
	2462	SISO	1	9.969	PASS
802.11g	2412	SISO	1	15.824	PASS
	2437	SISO	1	15.395	PASS
	2462	SISO	1	15.821	PASS
802.11n(HT20)	2412	SISO	1	16.448	PASS
	2437	SISO	1	15.118	PASS
	2462	SISO	1	17.312	PASS
802.11n(HT40)	2422	SISO	1	36.116	PASS
	2437	SISO	1	26.357	PASS
	2452	SISO	1	35.951	PASS

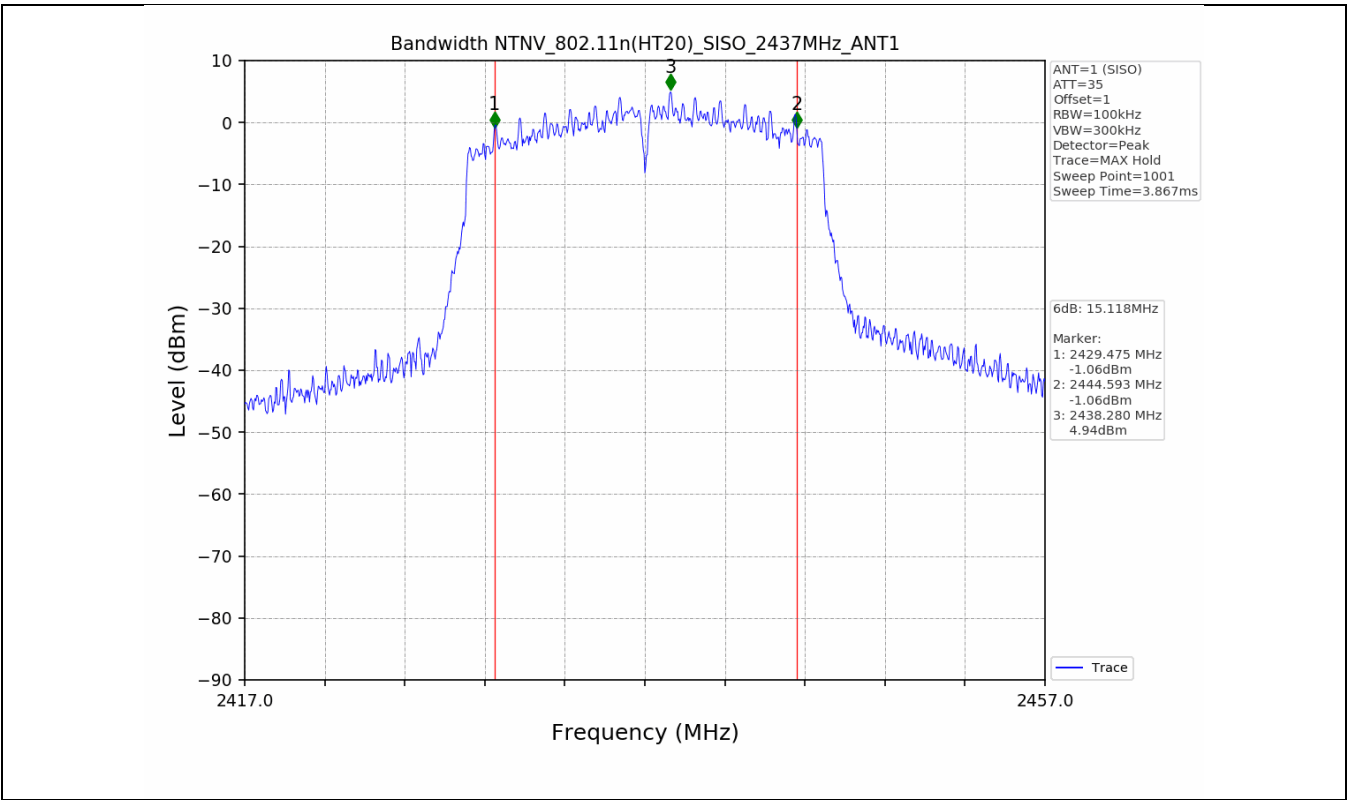
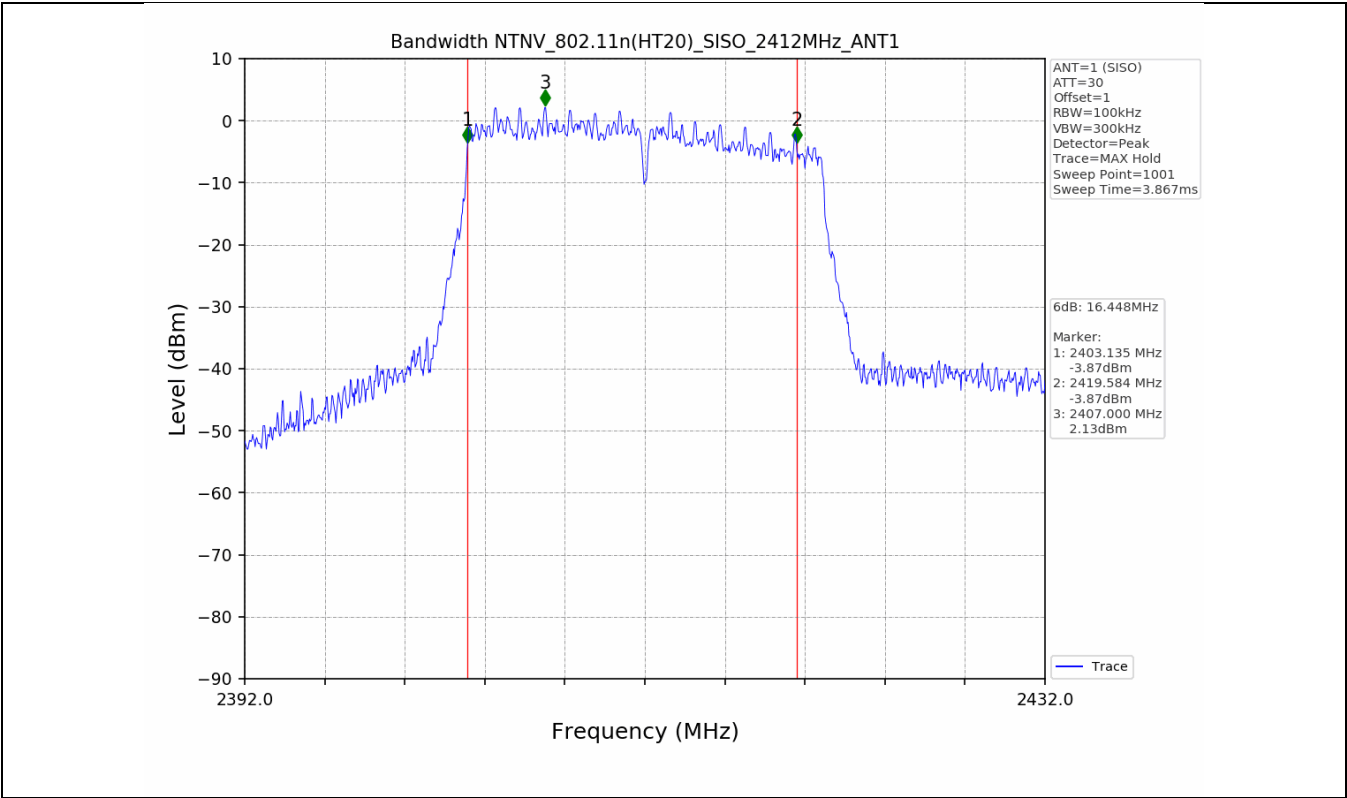
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	12.726	Only for Report Use
	2437	SISO	1	12.183	Only for Report Use
	2462	SISO	1	12.806	Only for Report Use
802.11g	2412	SISO	1	16.639	Only for Report Use
	2437	SISO	1	16.386	Only for Report Use
	2462	SISO	1	16.749	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.693	Only for Report Use
	2437	SISO	1	17.467	Only for Report Use
	2462	SISO	1	17.811	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.697	Only for Report Use
	2437	SISO	1	35.529	Only for Report Use
	2452	SISO	1	36.636	Only for Report Use

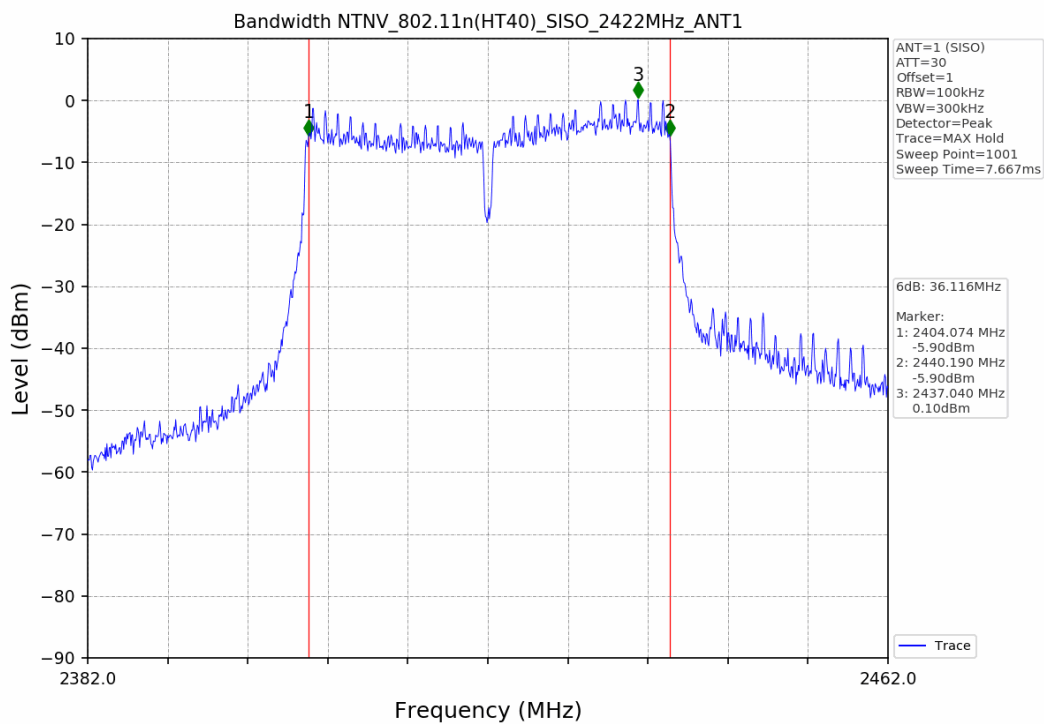
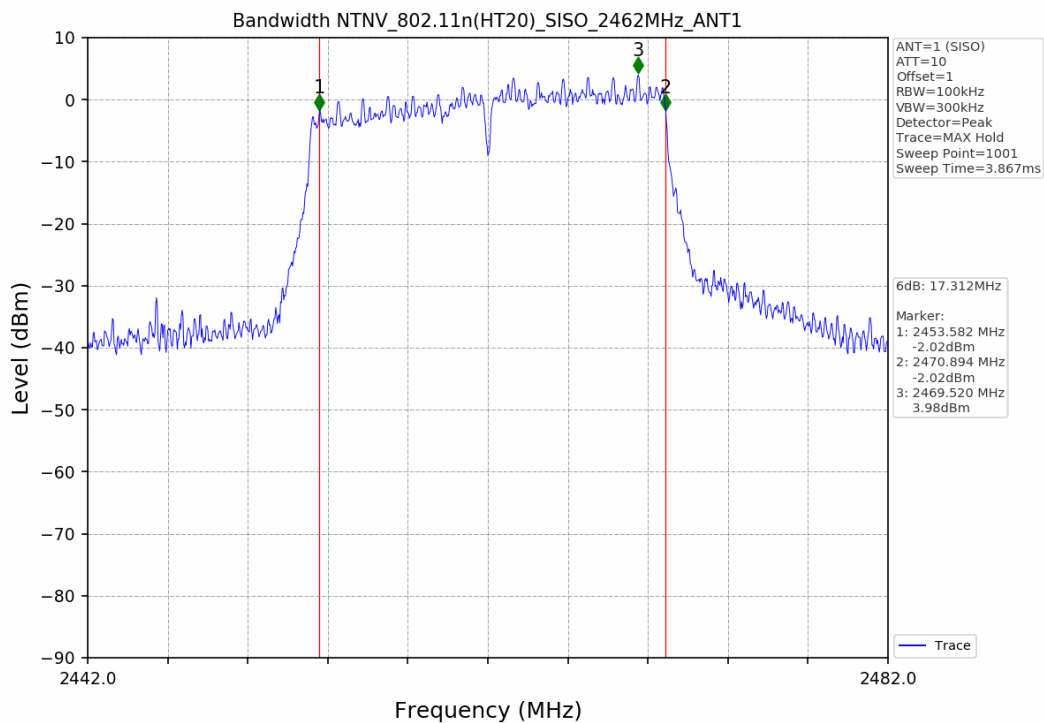
1.2 Test Graph - 6dB Bandwidth

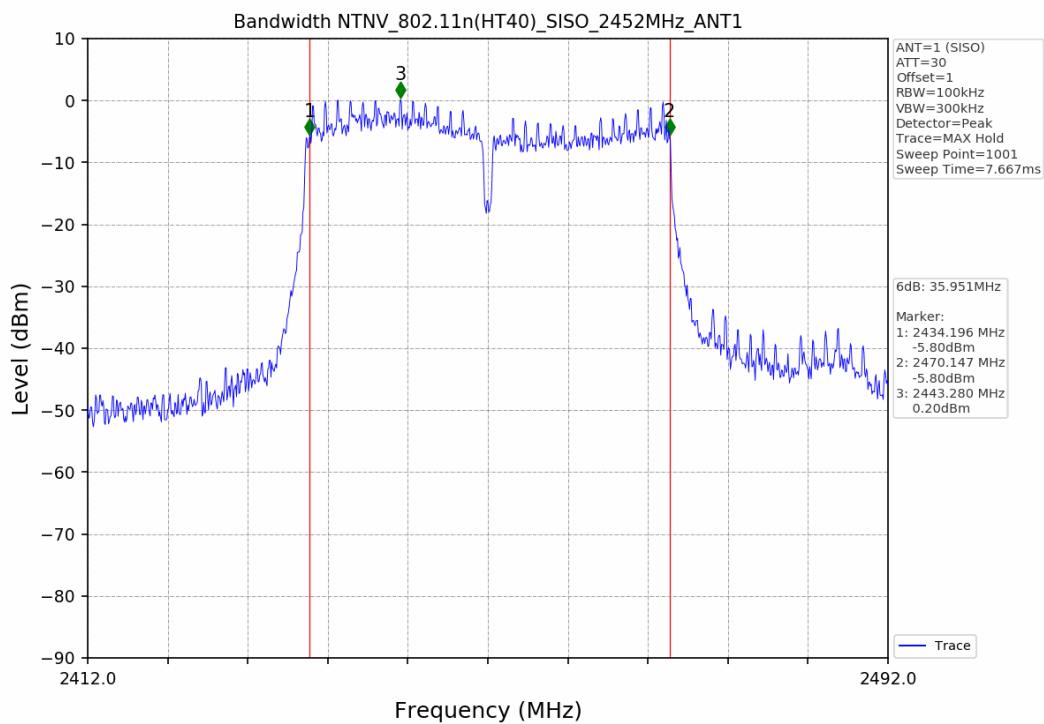
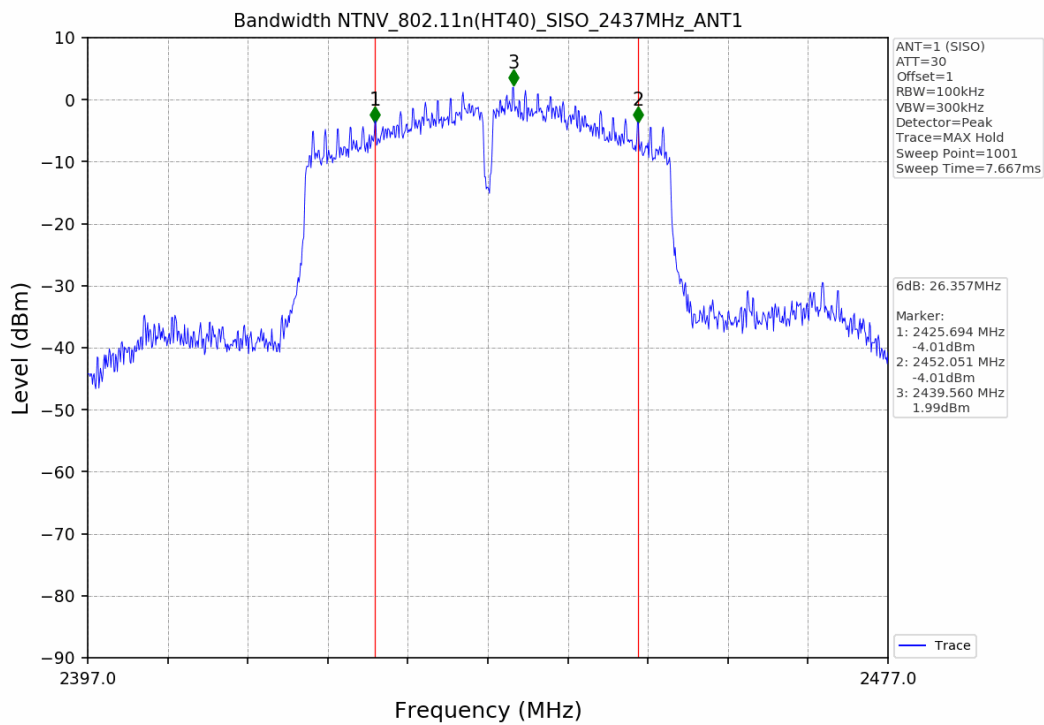




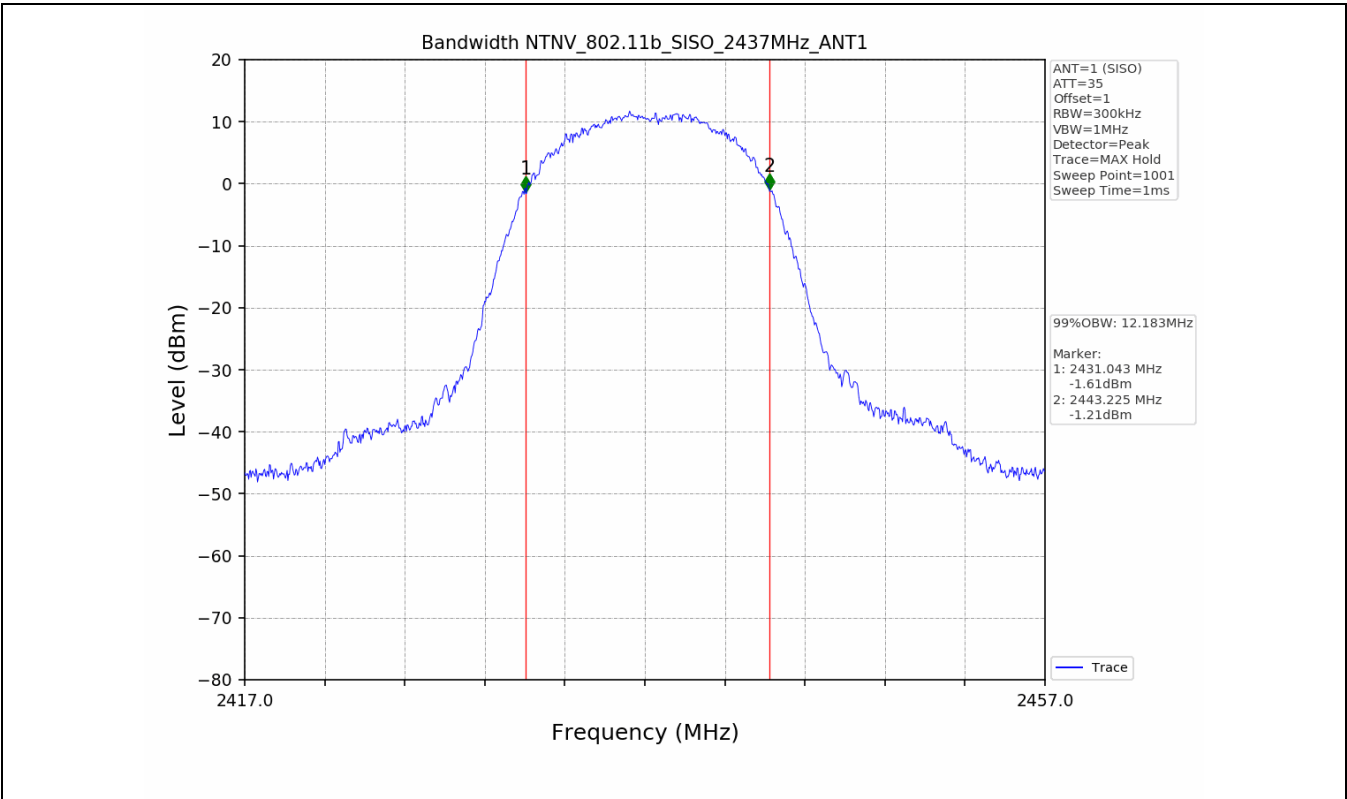
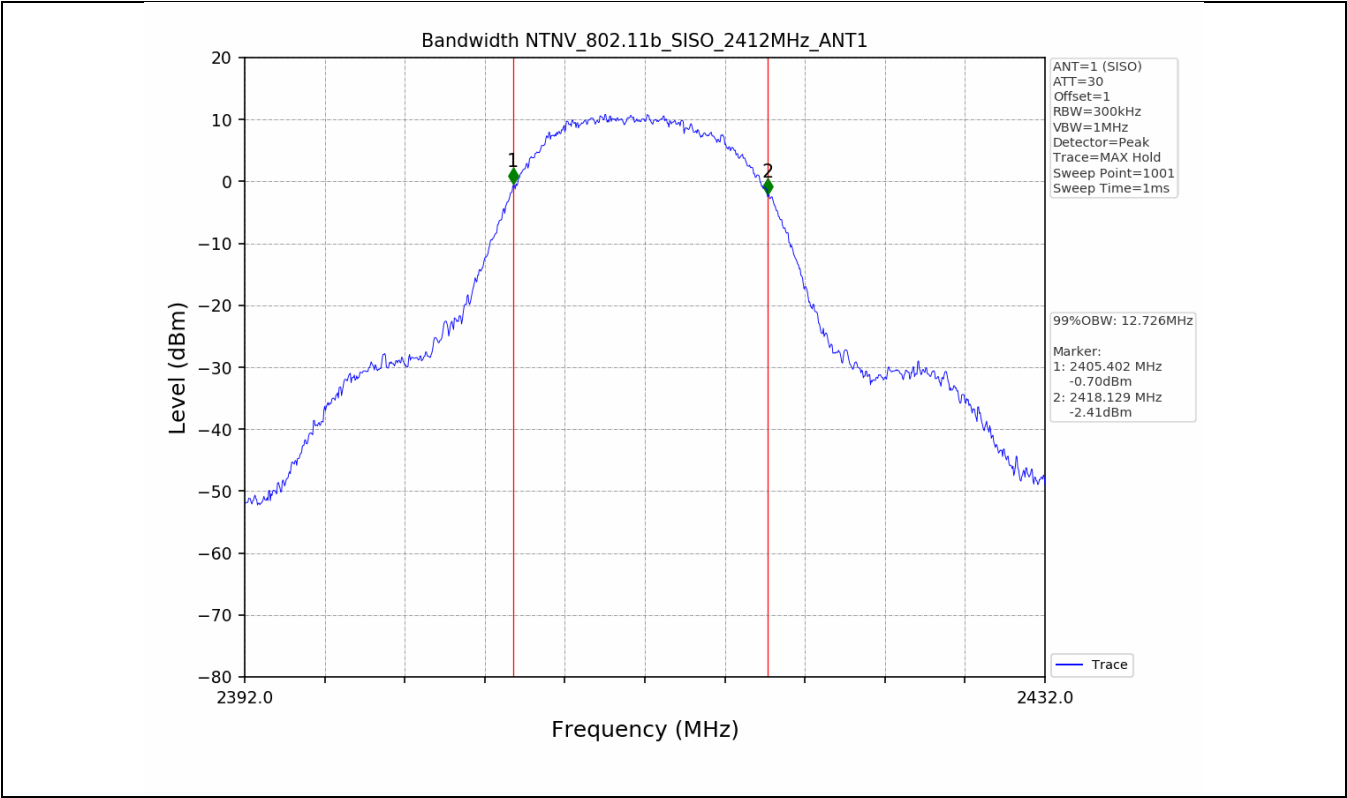


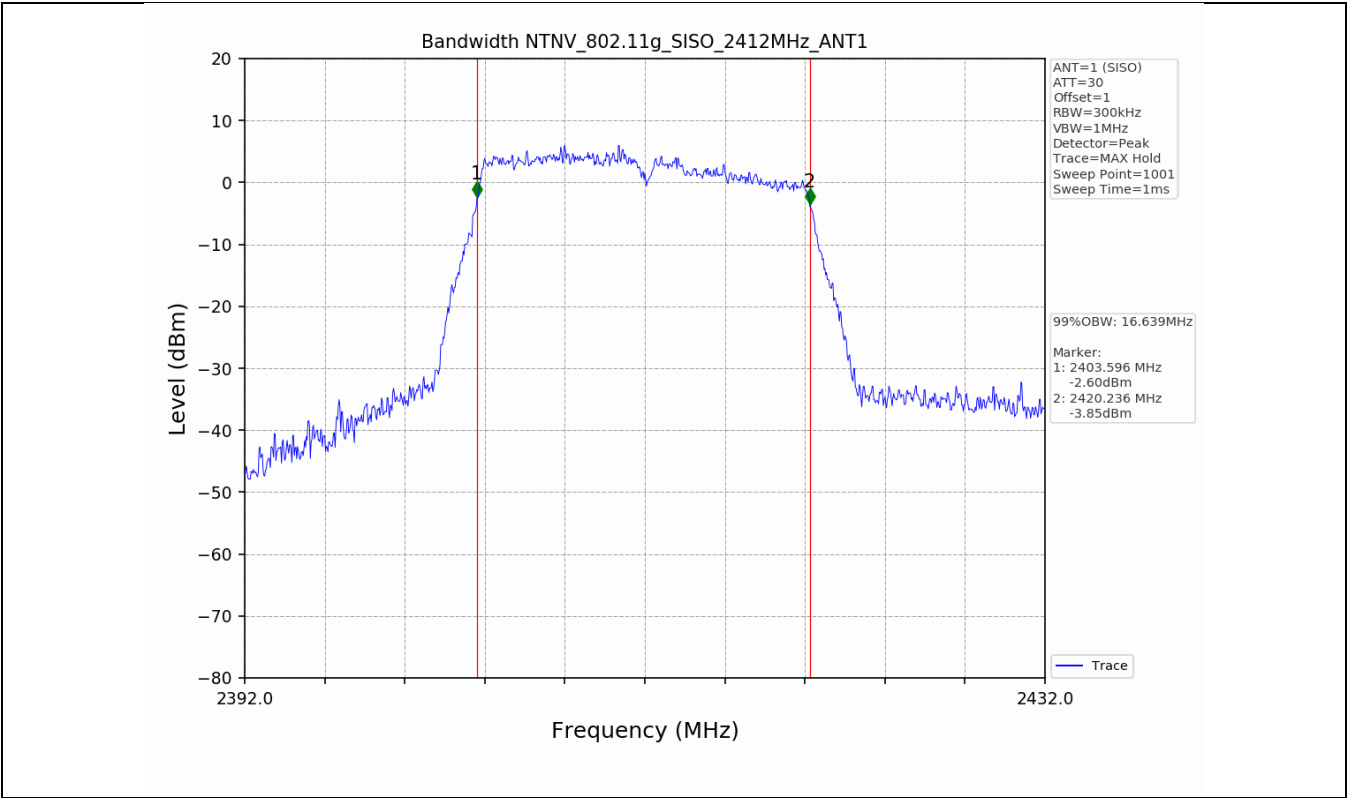
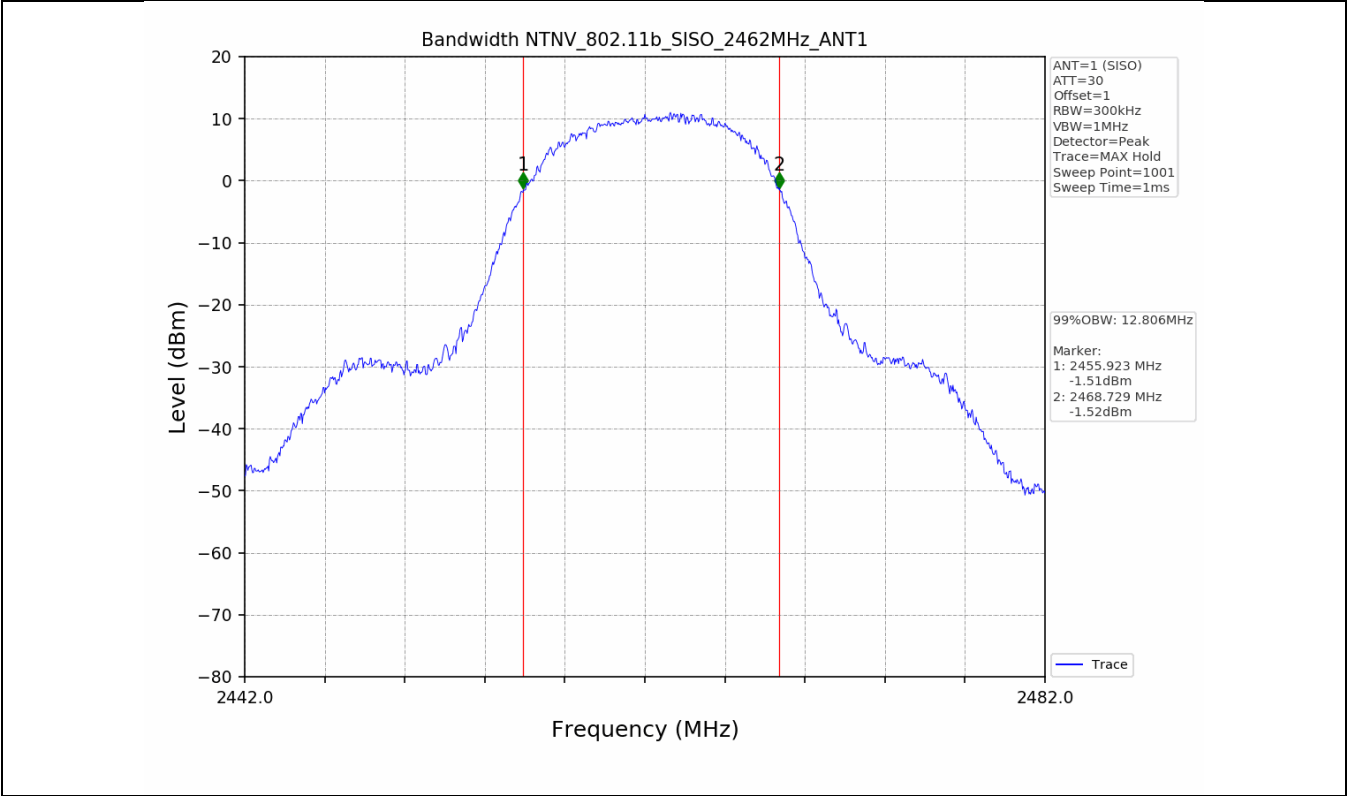


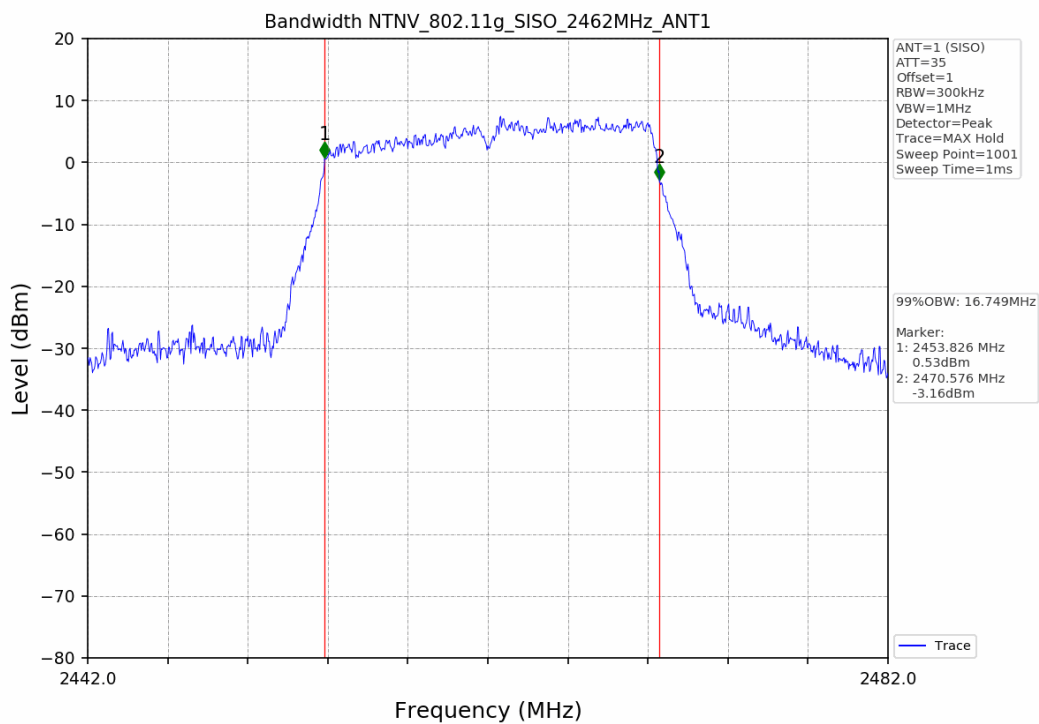
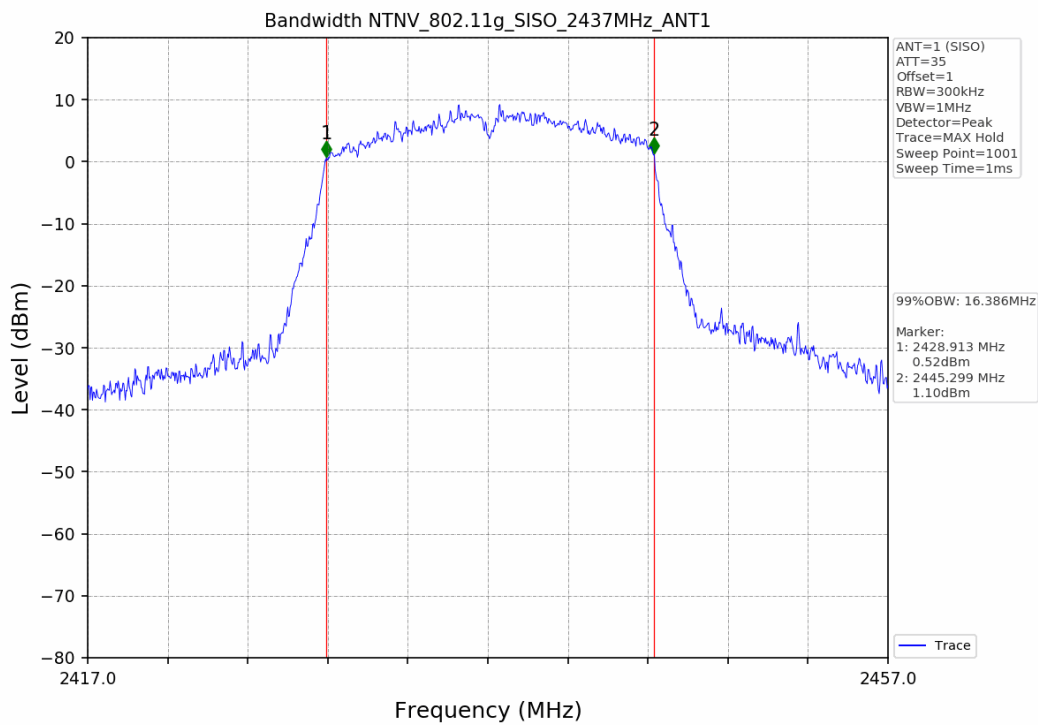


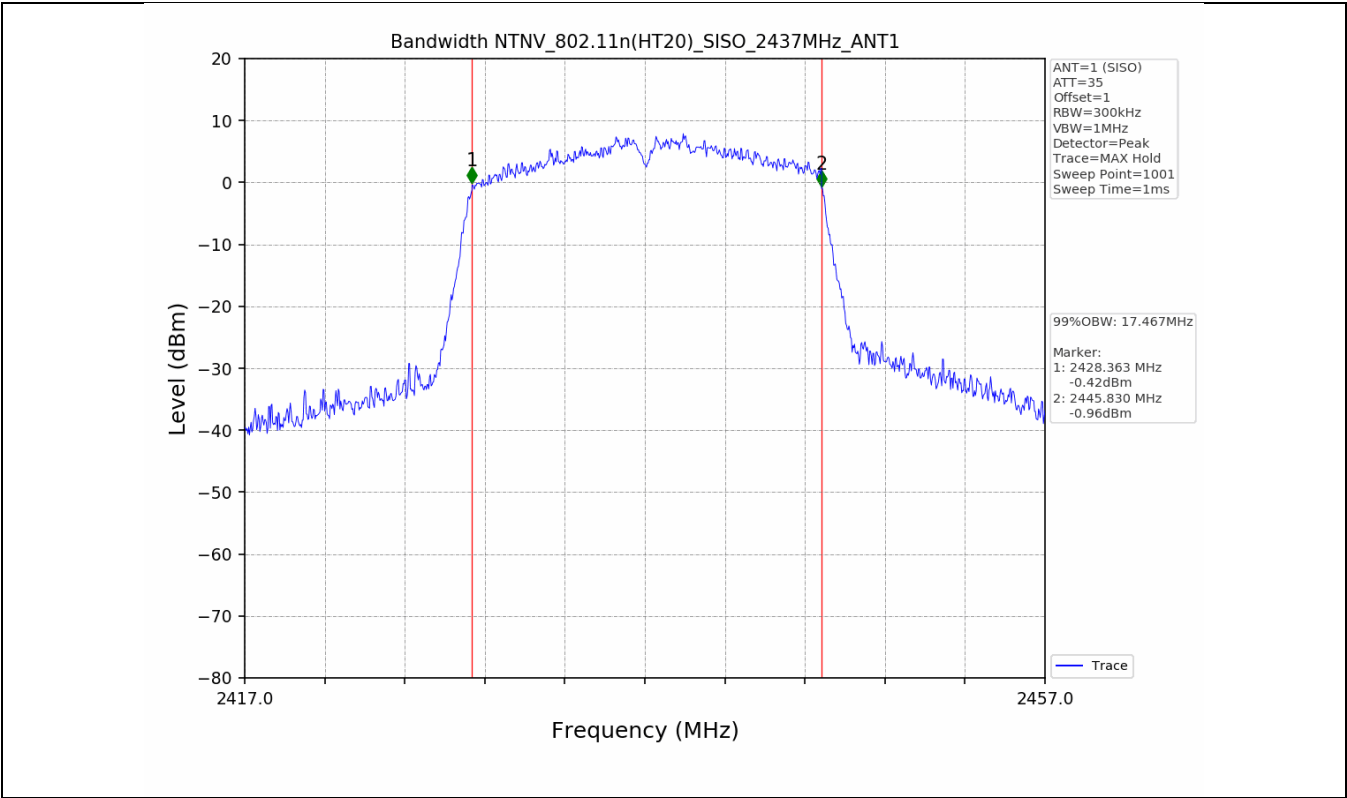
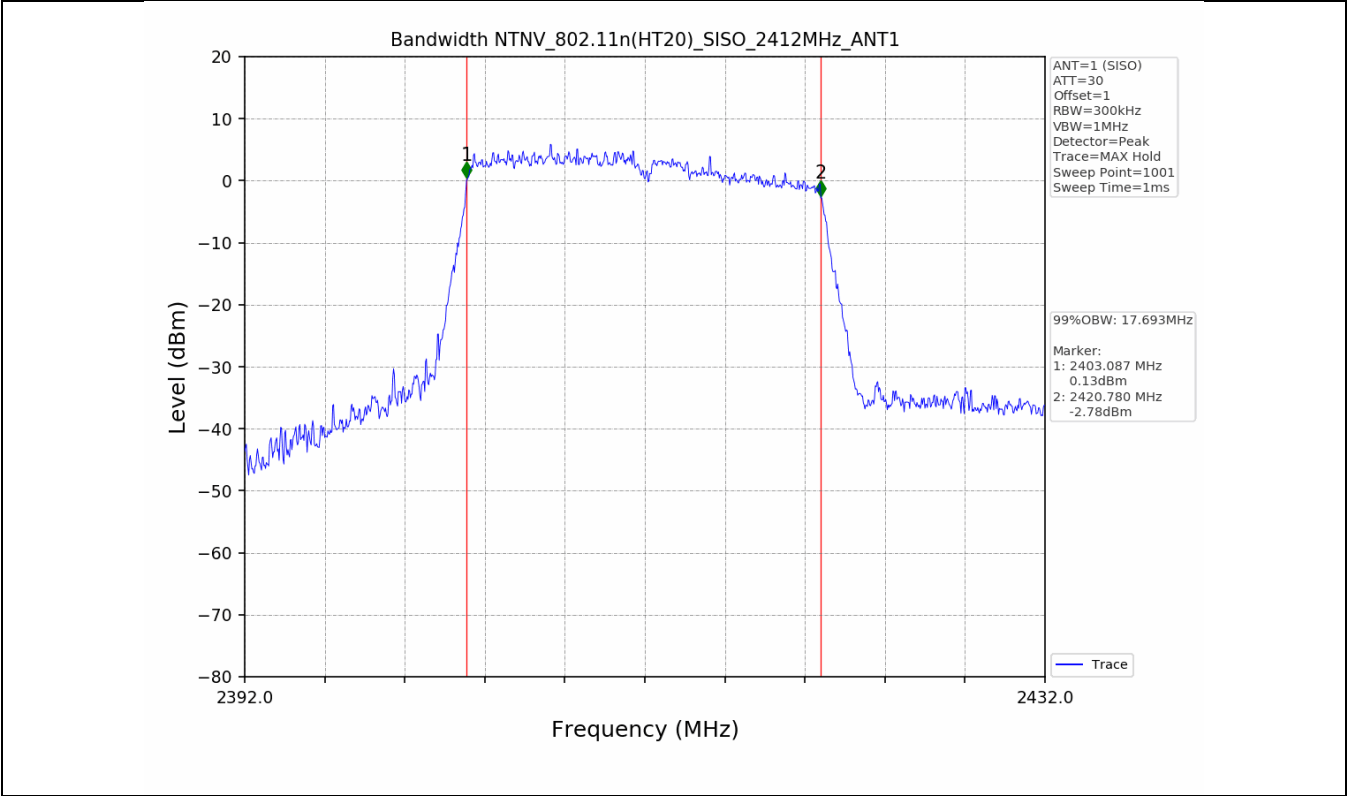


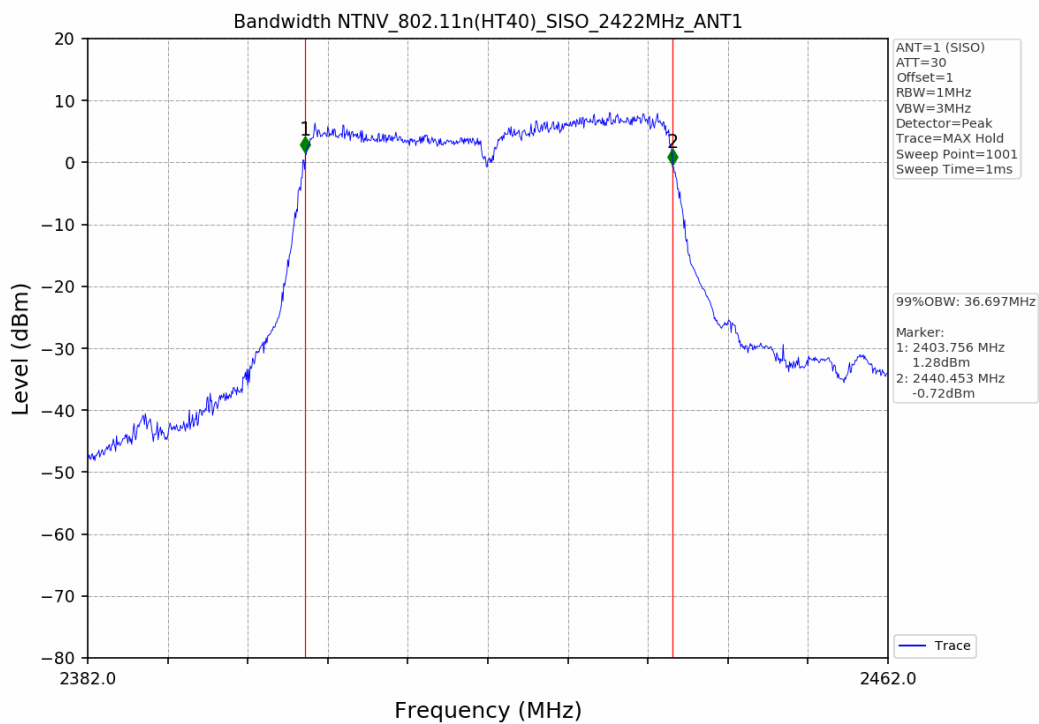
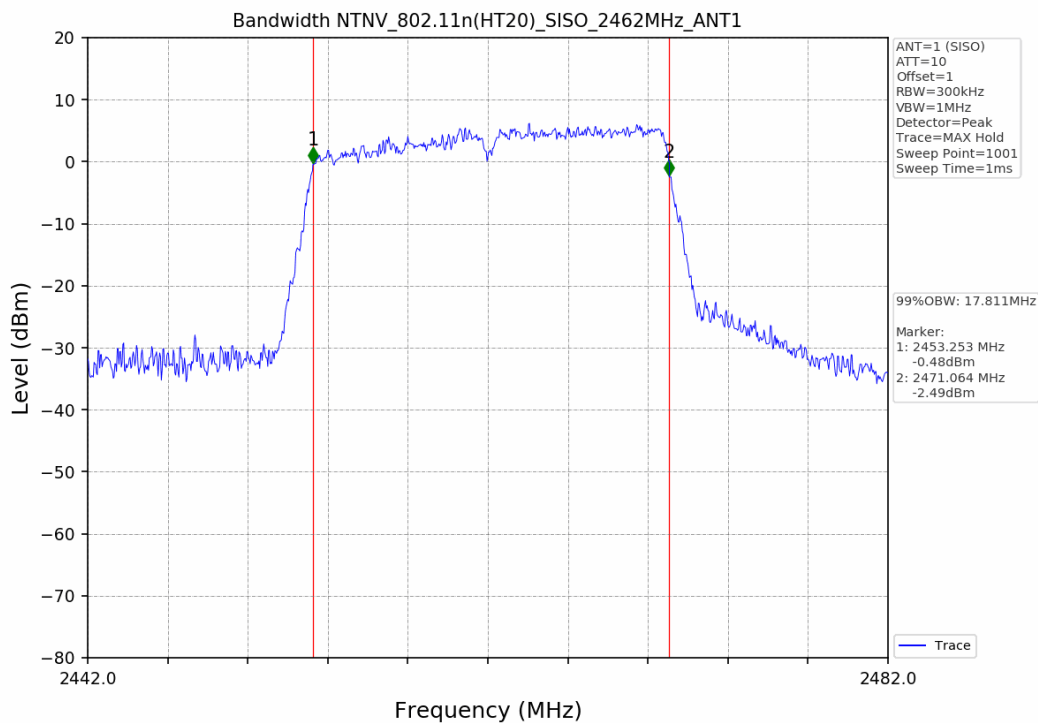
1.3 Test Graph - 99% Occupied Bandwidth

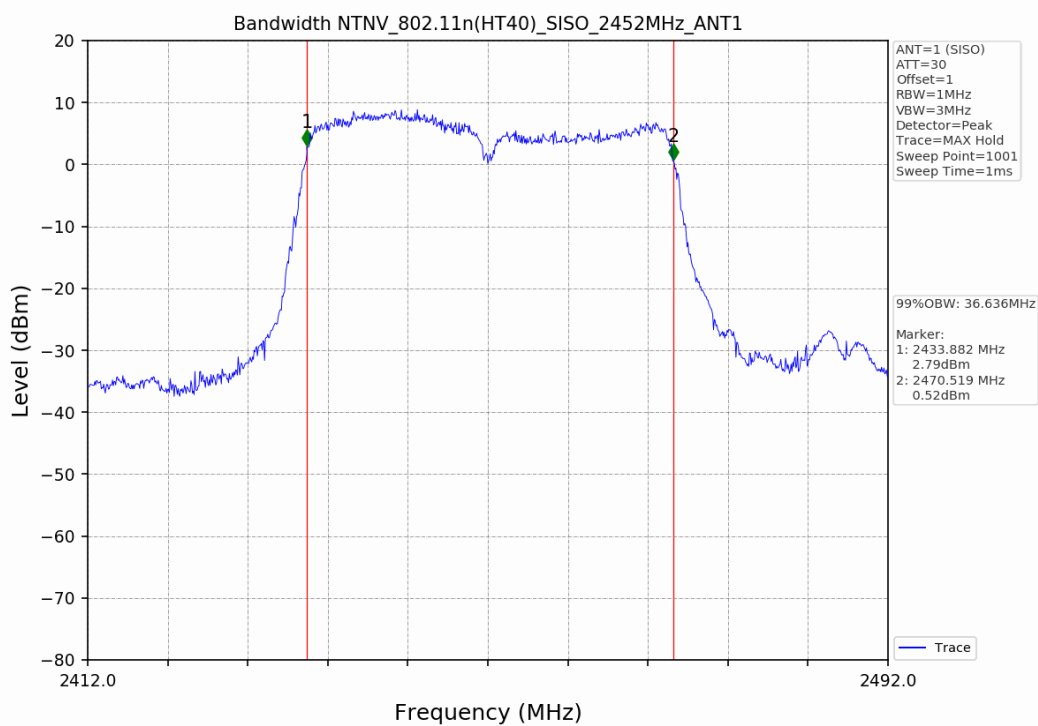
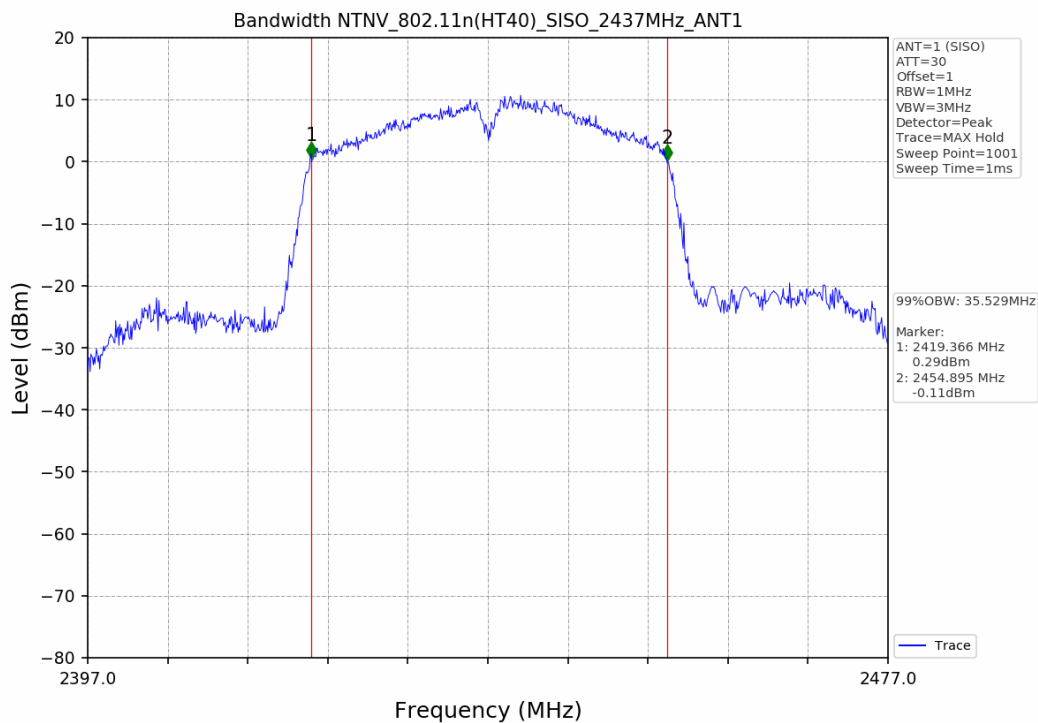










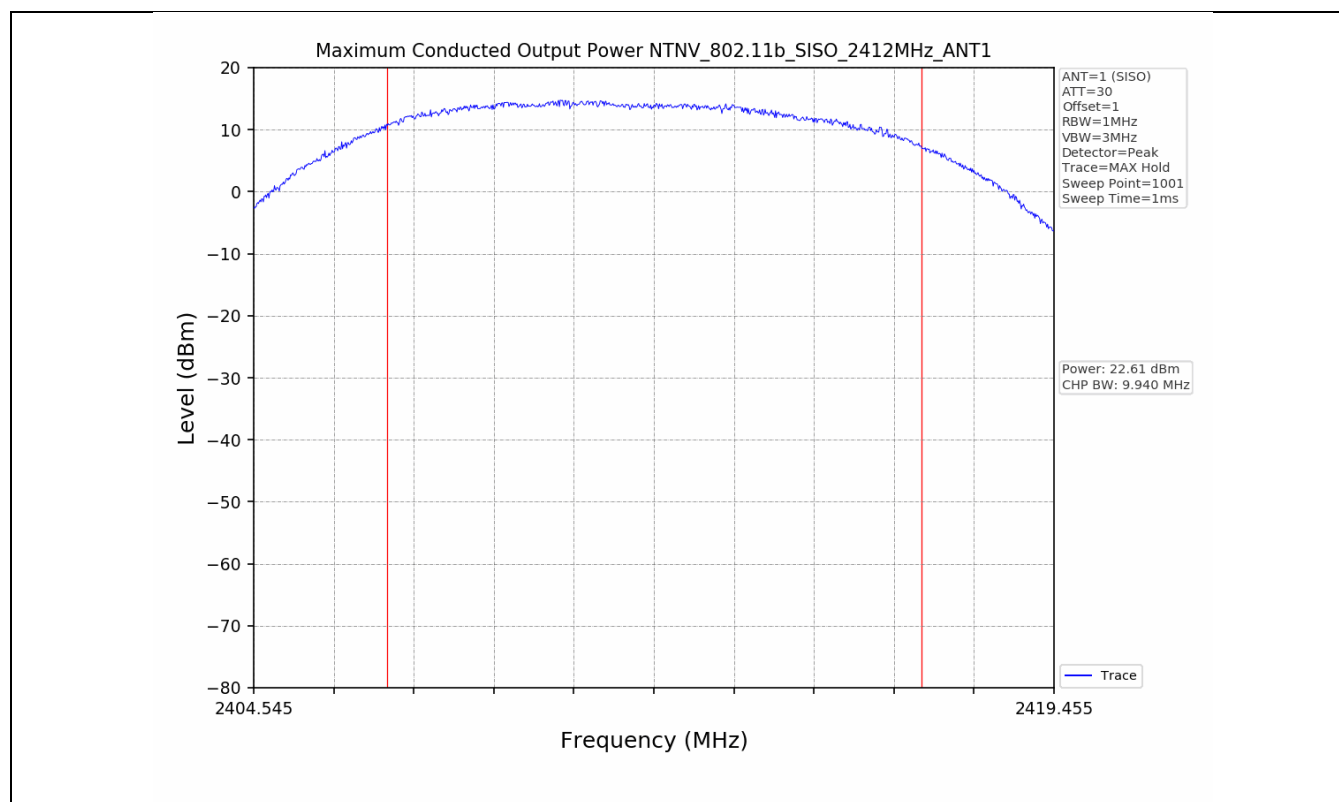


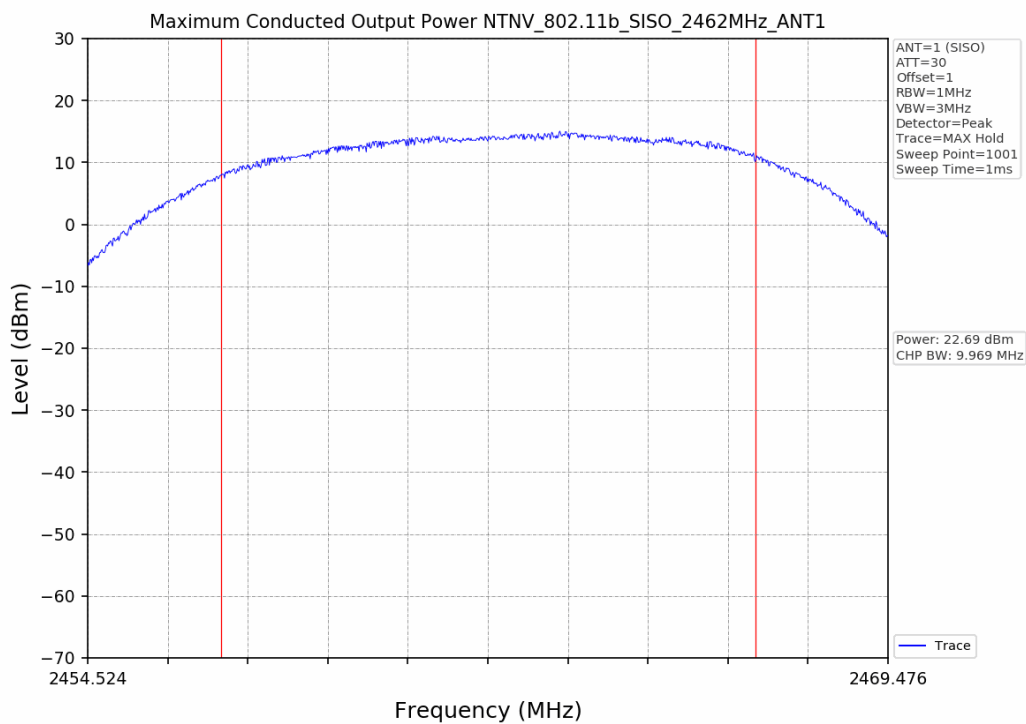
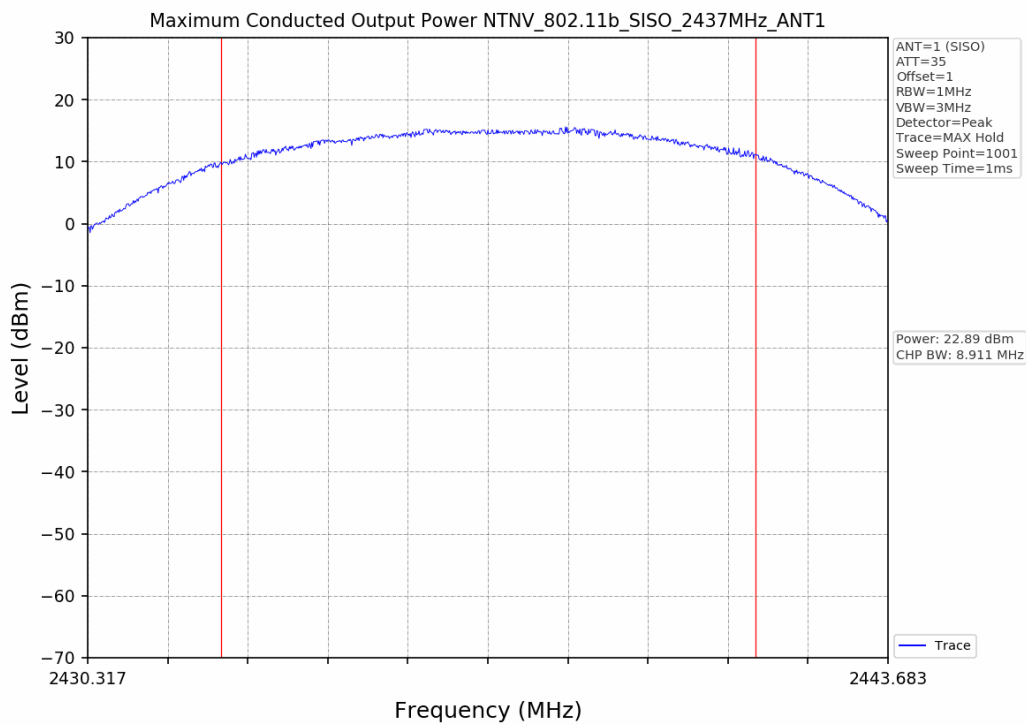
2. Maximum Conducted Output Power

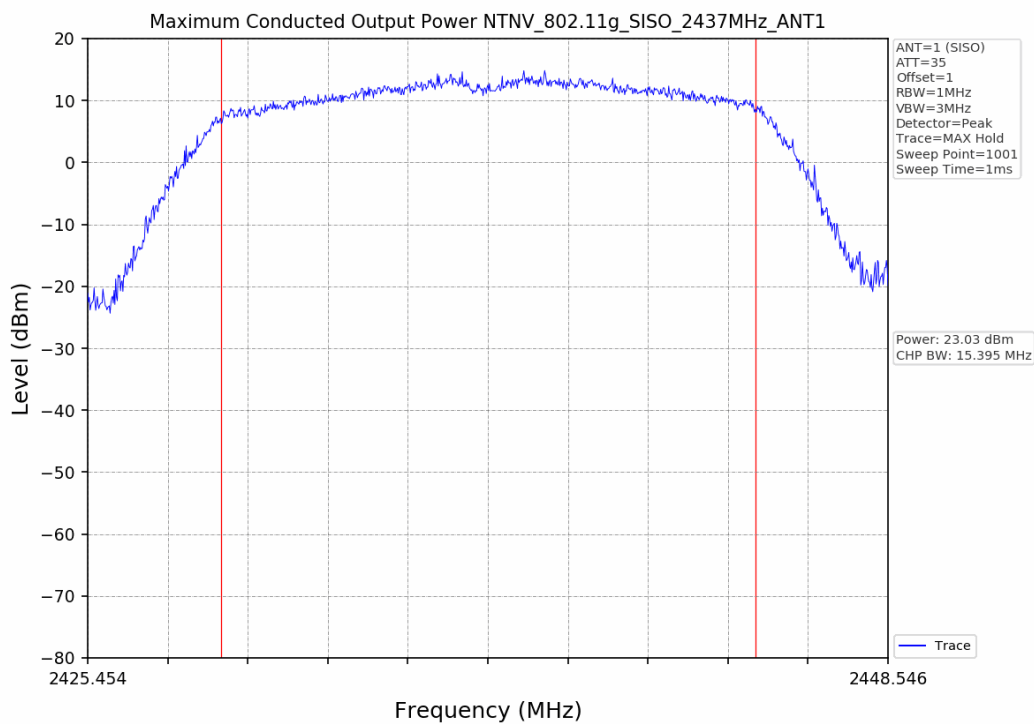
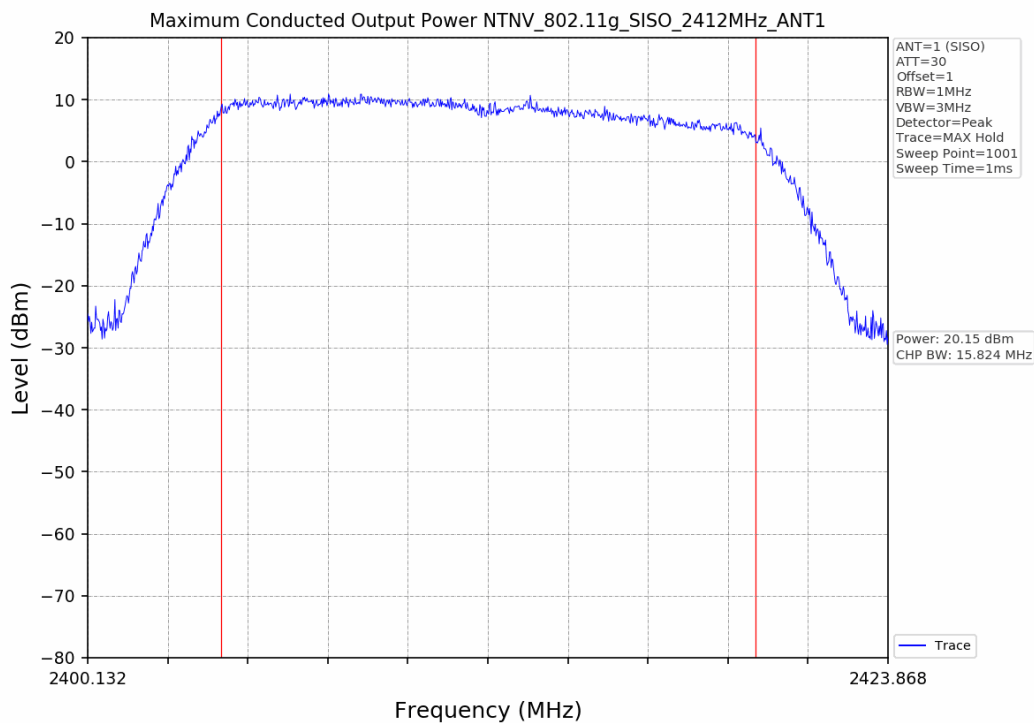
2.1 Test Result

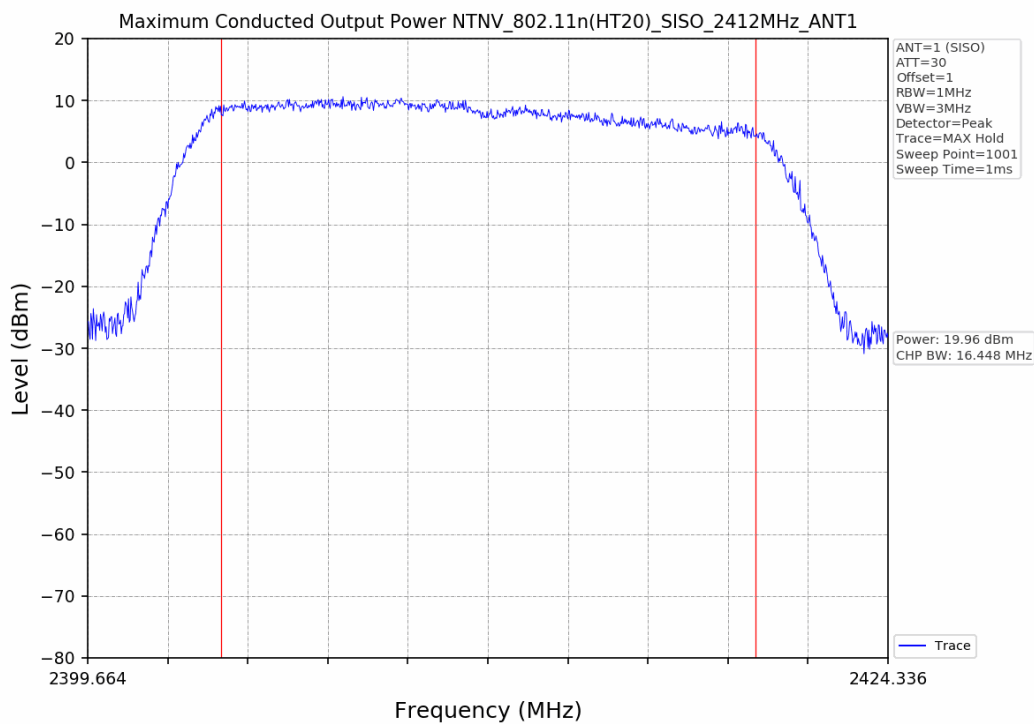
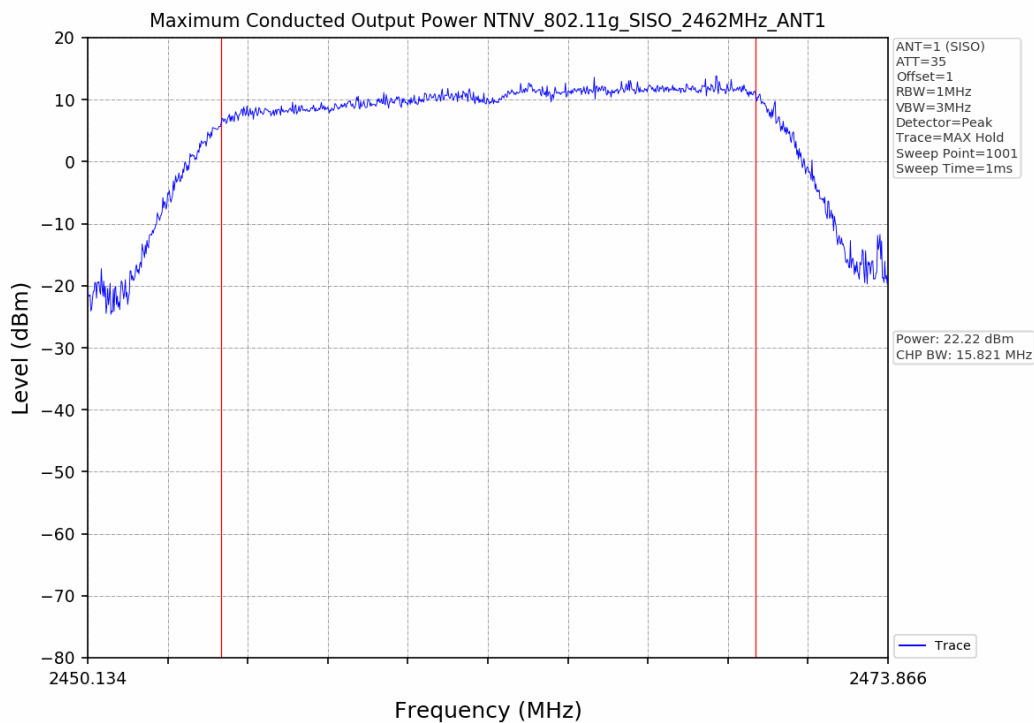
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	22.61	30	PASS
	2437	SISO	22.89	30	PASS
	2462	SISO	22.69	30	PASS
802.11g	2412	SISO	20.15	30	PASS
	2437	SISO	23.03	30	PASS
	2462	SISO	22.22	30	PASS
802.11n(HT20)	2412	SISO	19.96	30	PASS
	2437	SISO	21.90	30	PASS
	2462	SISO	17.96	30	PASS
802.11n(HT40)	2422	SISO	20.09	30	PASS
	2437	SISO	21.08	30	PASS
	2452	SISO	20.73	30	PASS

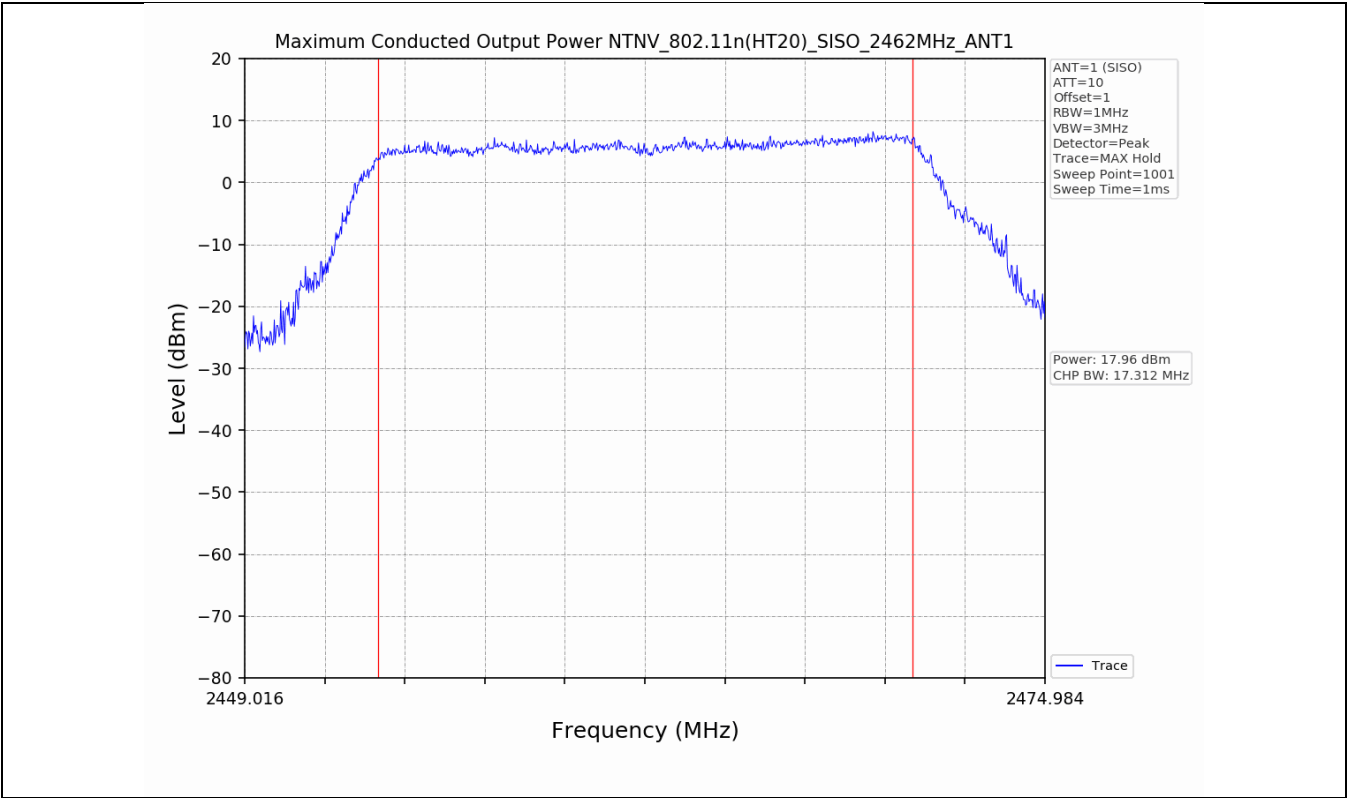
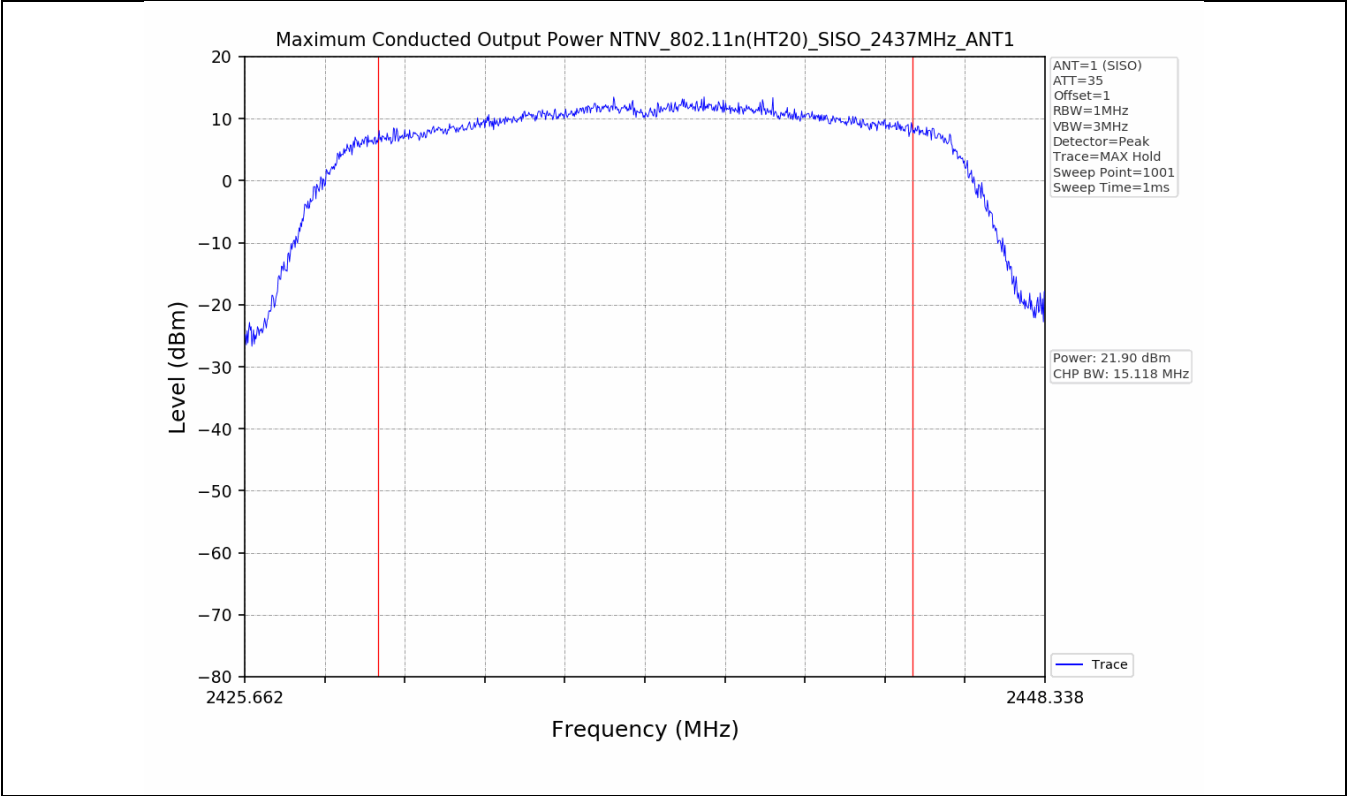
2.2 Test Graph

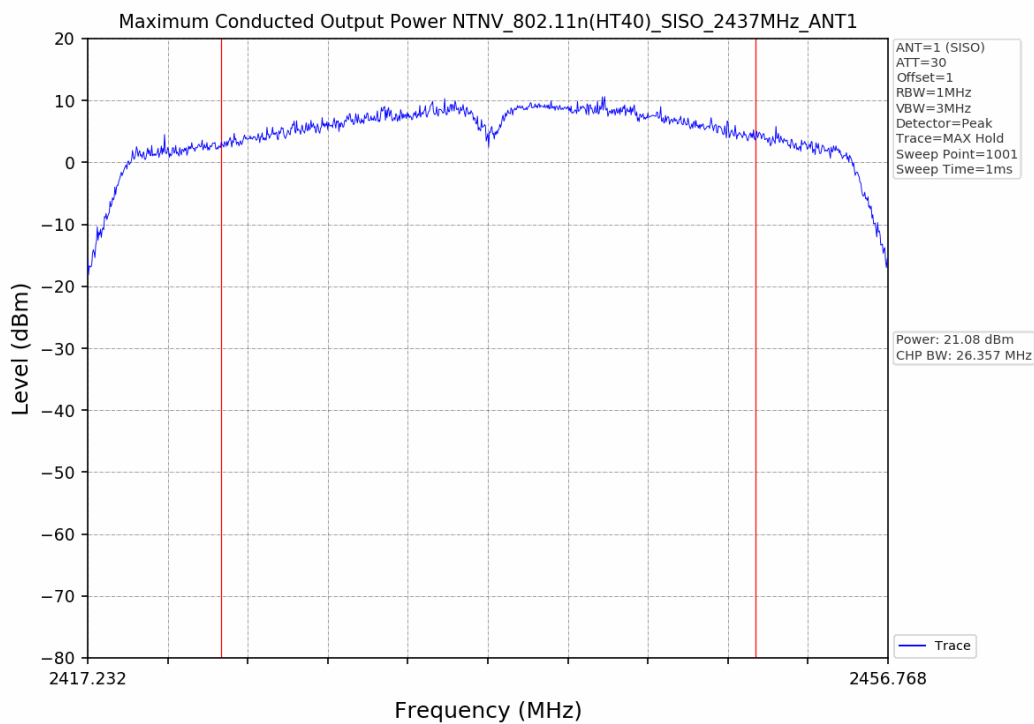
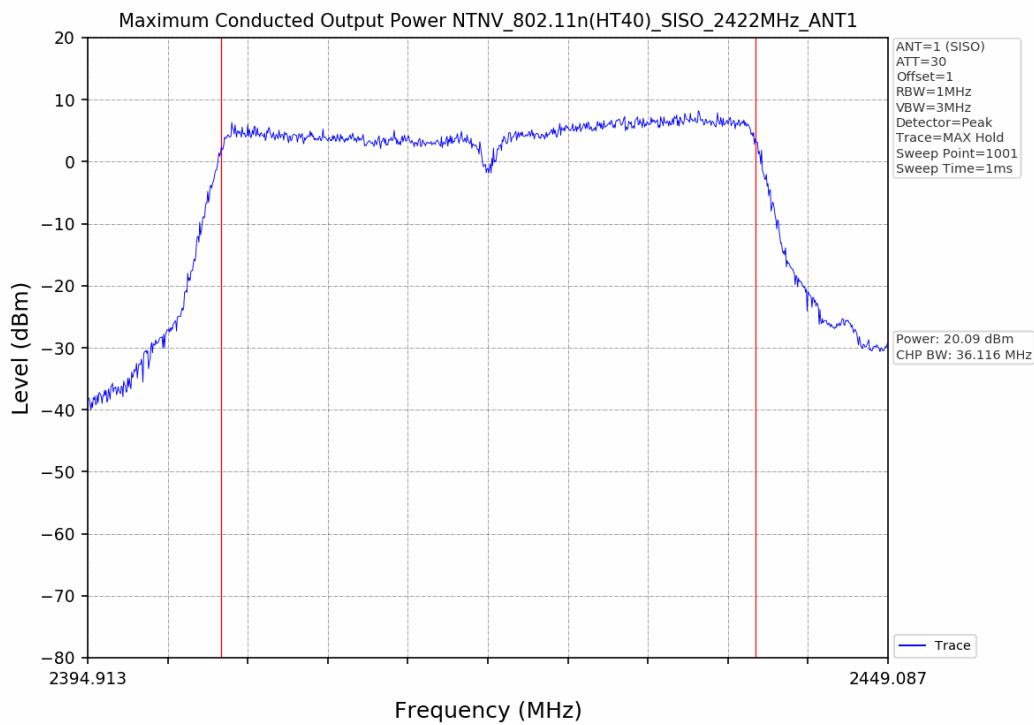


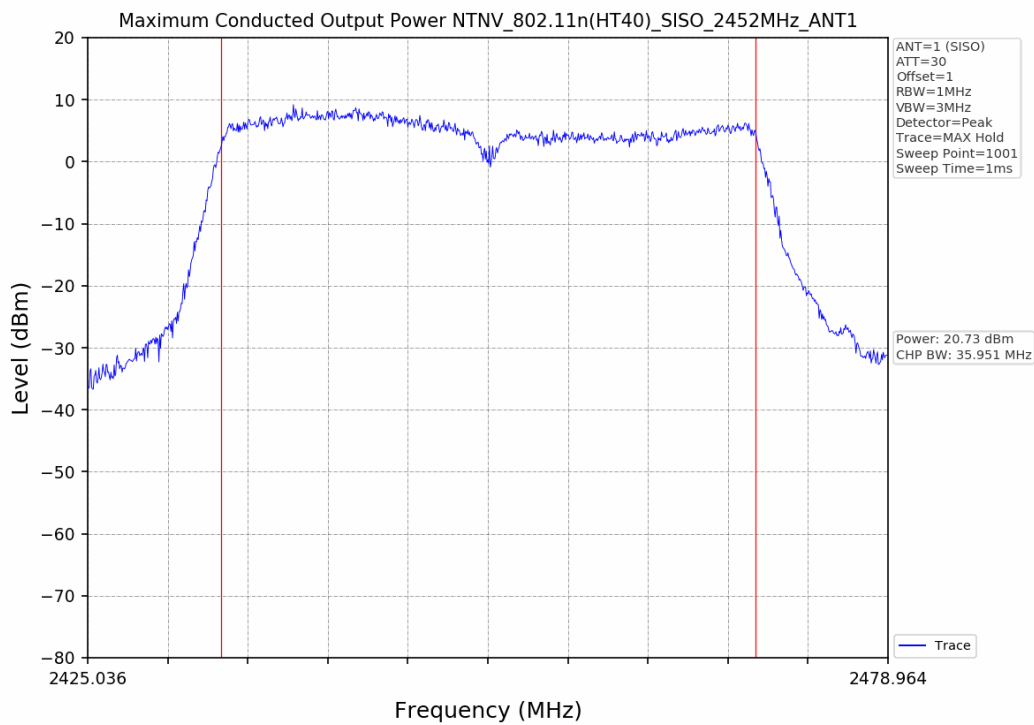










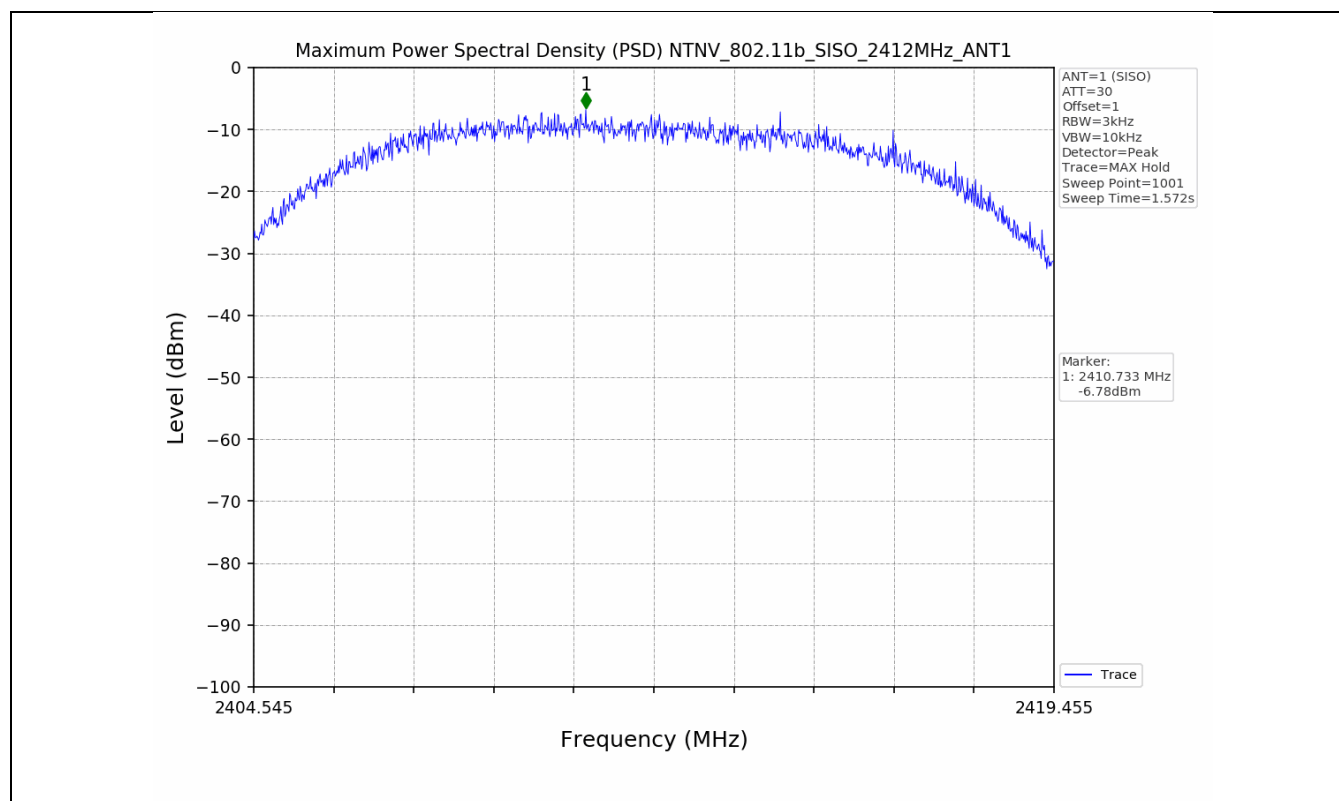


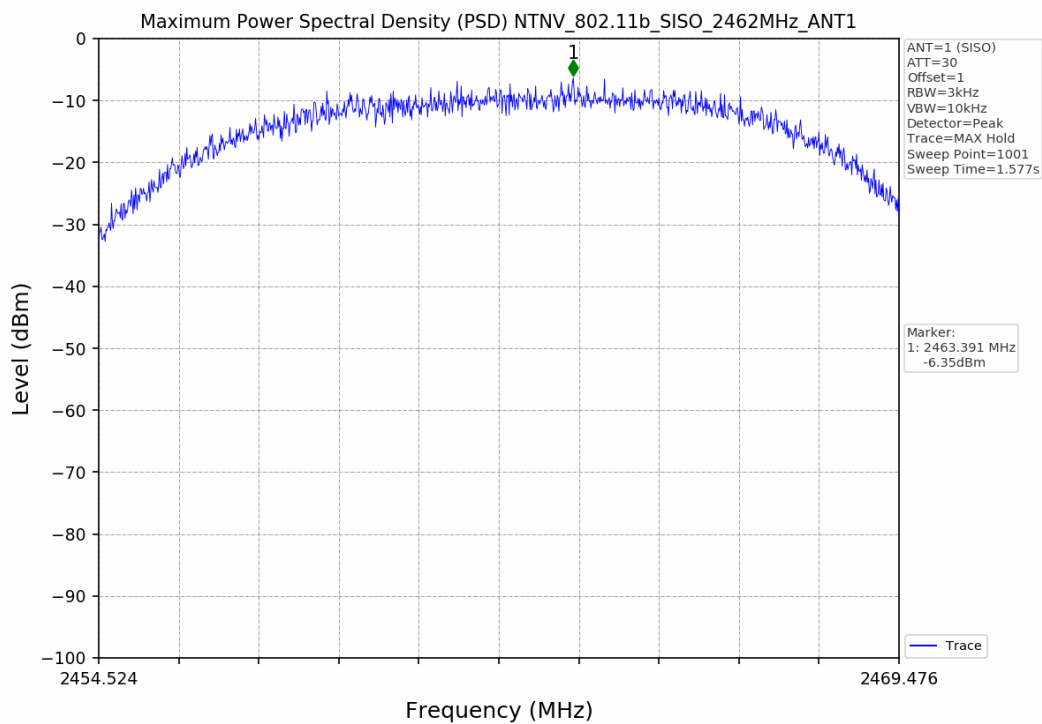
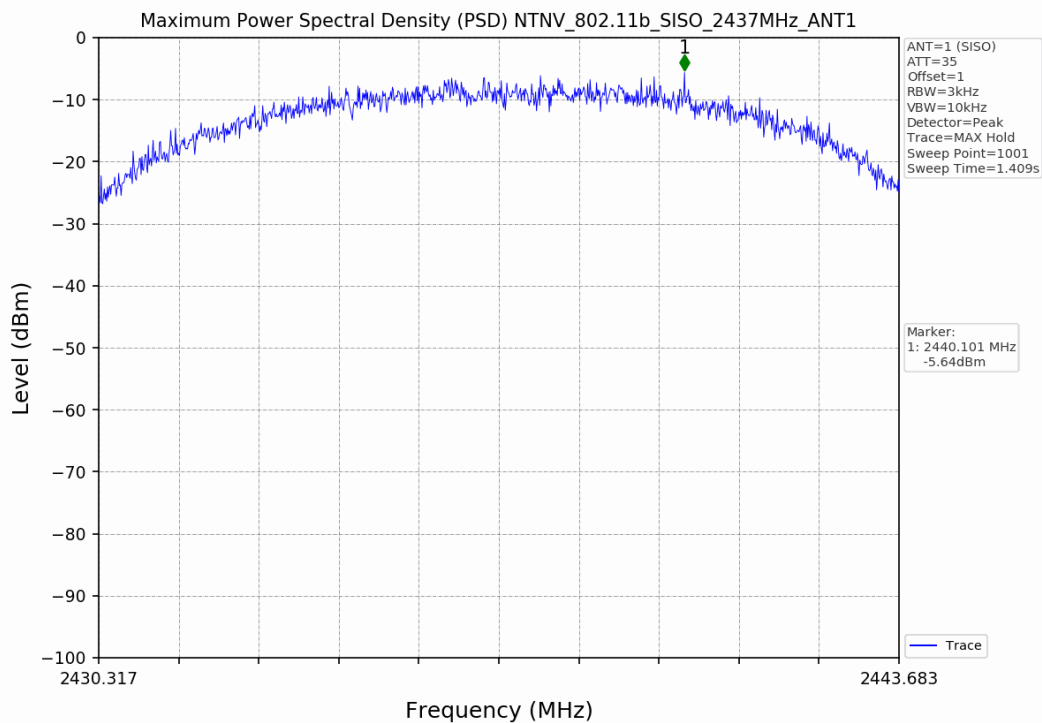
3. Maximum Power Spectral Density (PSD)

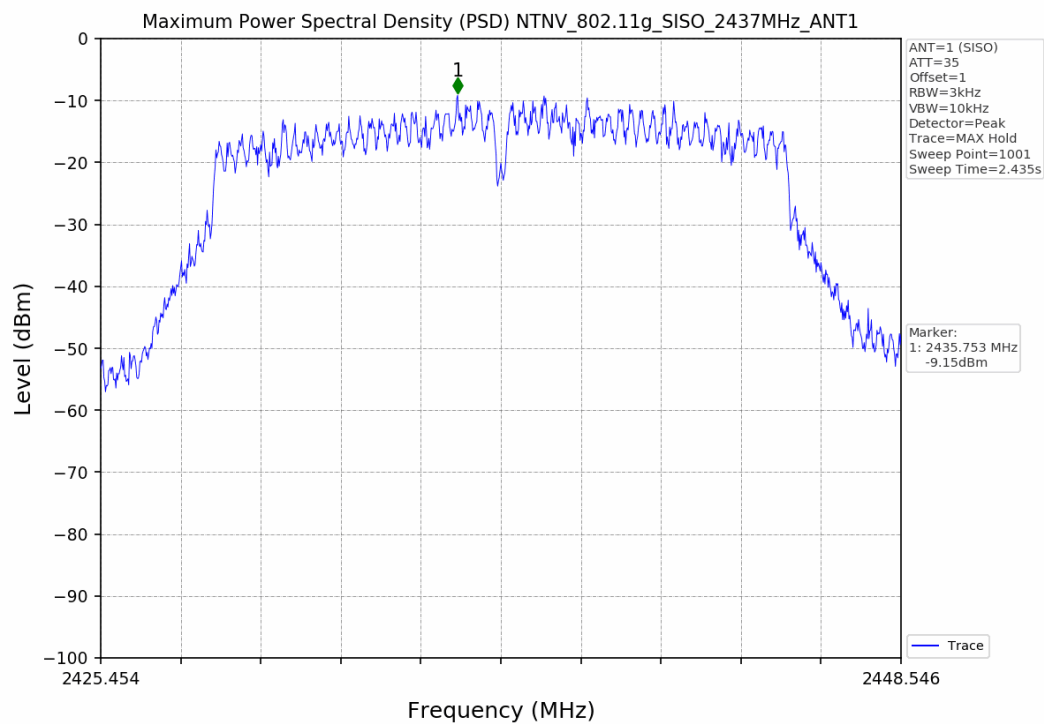
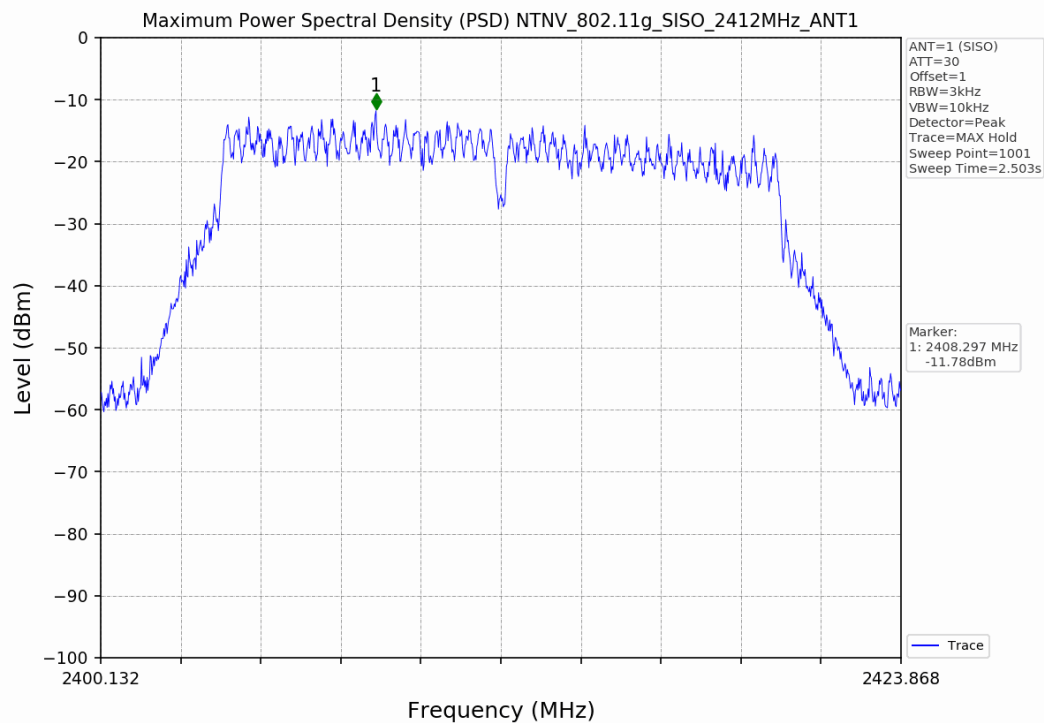
3.1 Test Result

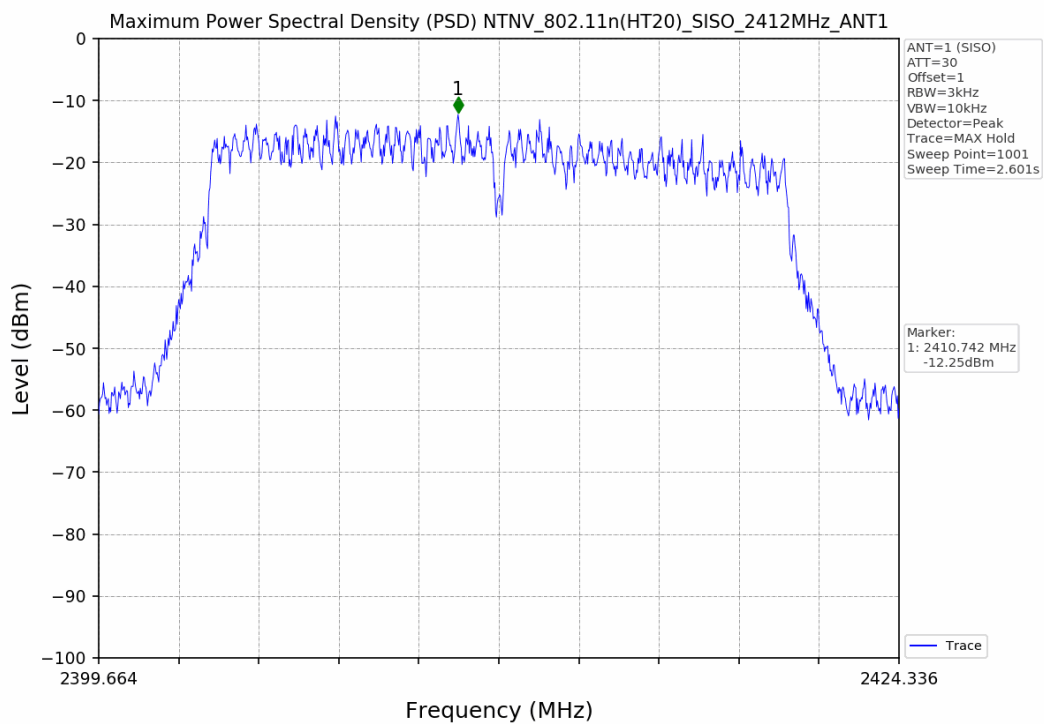
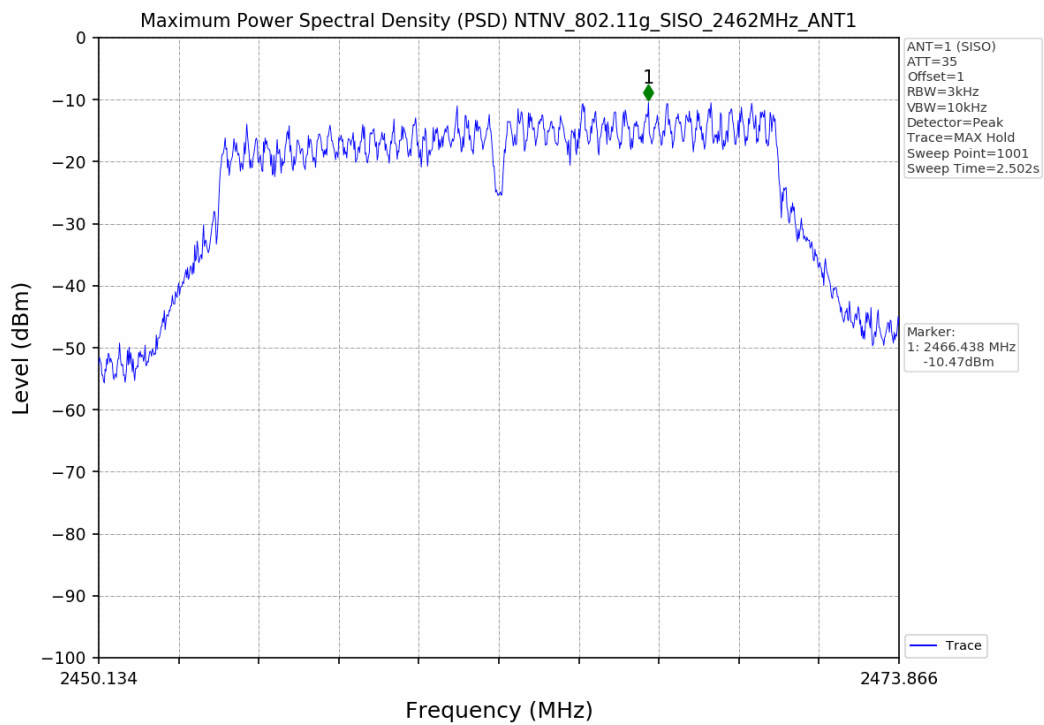
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-6.78	≤ 8	PASS
	2437	SISO	-5.64	≤ 8	PASS
	2462	SISO	-6.35	≤ 8	PASS
802.11g	2412	SISO	-11.78	≤ 8	PASS
	2437	SISO	-9.15	≤ 8	PASS
	2462	SISO	-10.47	≤ 8	PASS
802.11n(HT20)	2412	SISO	-12.25	≤ 8	PASS
	2437	SISO	-9.63	≤ 8	PASS
	2462	SISO	-10.61	≤ 8	PASS
802.11n(HT40)	2422	SISO	-14.04	≤ 8	PASS
	2437	SISO	-13.03	≤ 8	PASS
	2452	SISO	-12.10	≤ 8	PASS

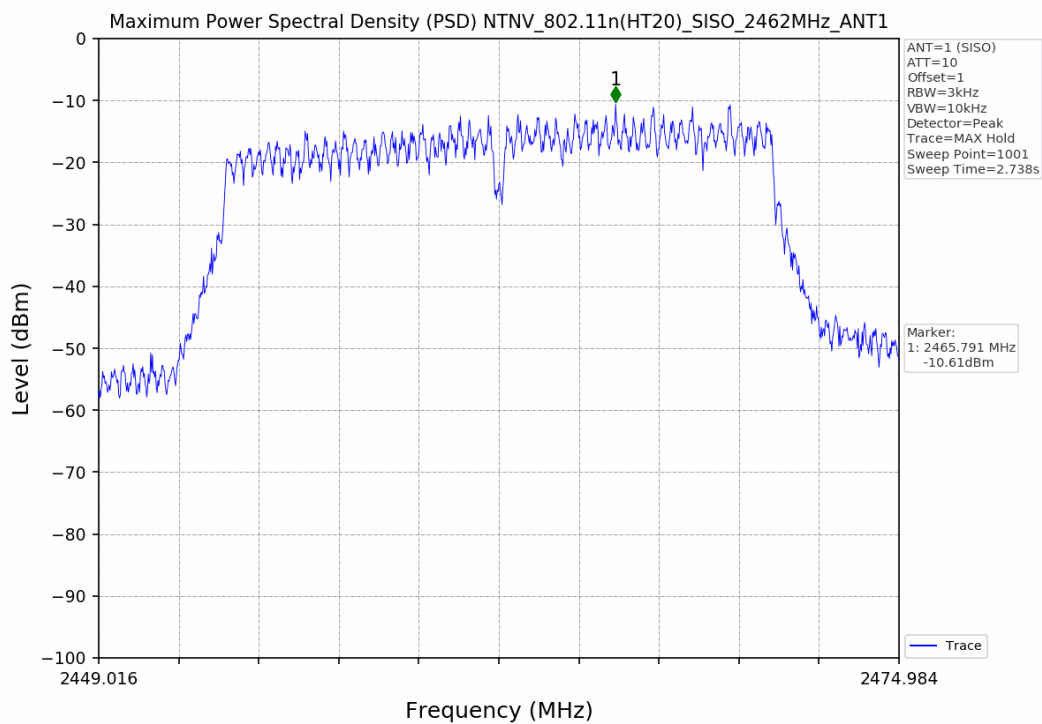
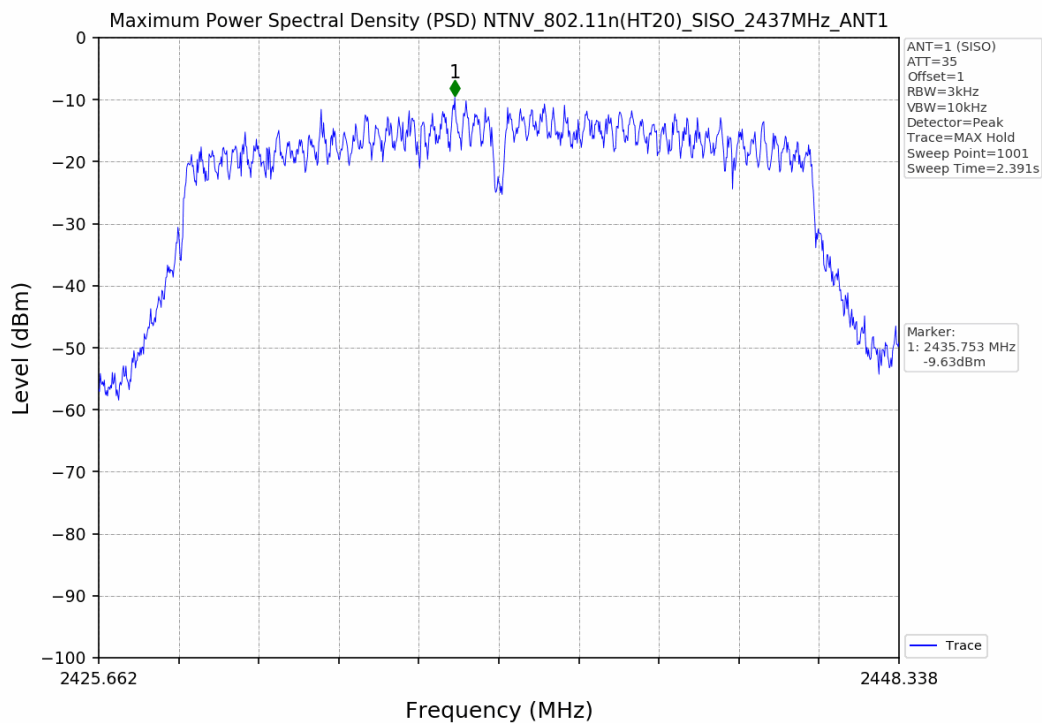
3.2 Test Graph

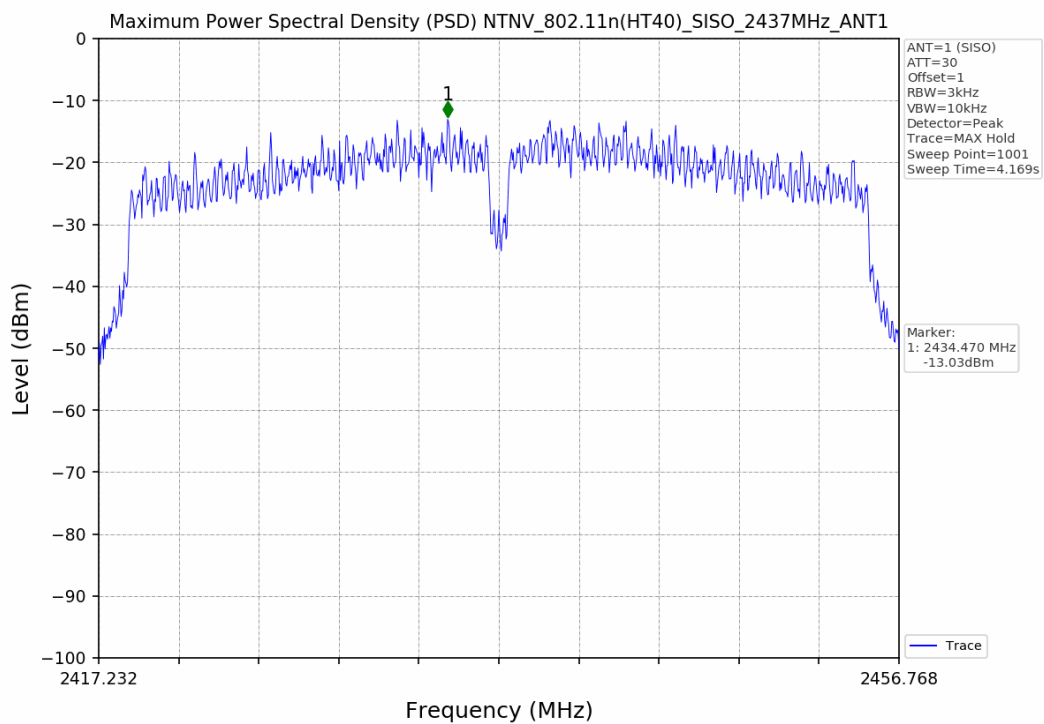
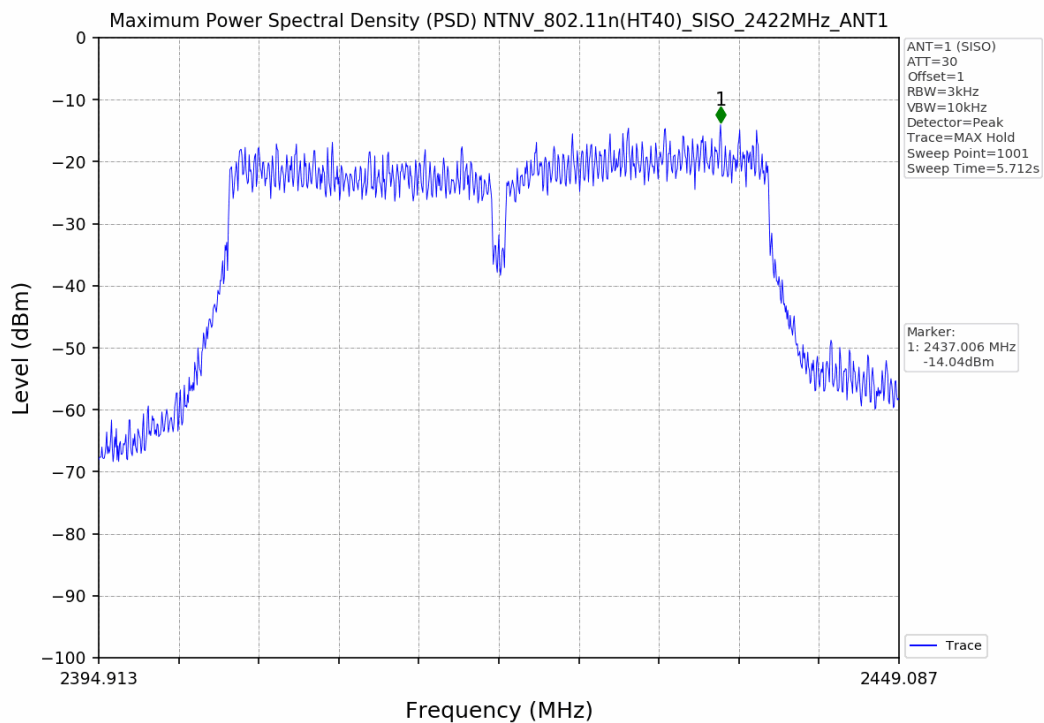


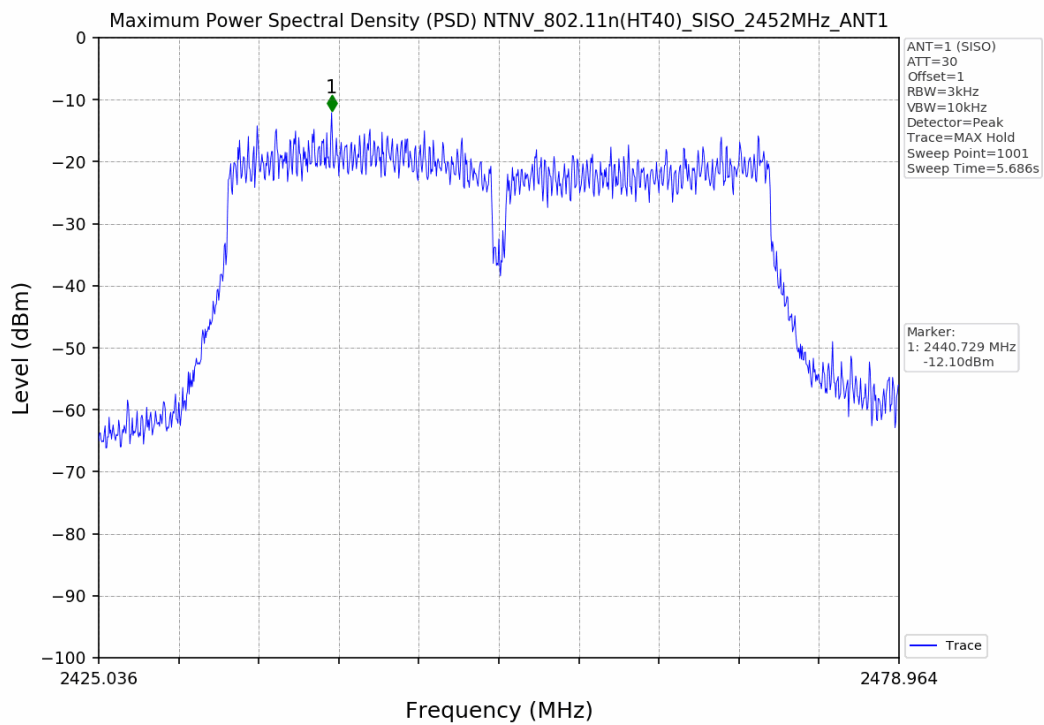












4. Unwanted Emissions in Non-restricted Frequency Bands

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	-10.25	PASS
	2437	SISO	1	Refer to test graph	-10.25	PASS
	2462	SISO	1	Refer to test graph	-10.25	PASS
802.11g	2412	SISO	1	Refer to test graph	-14.39	PASS
	2437	SISO	1	Refer to test graph	-14.39	PASS
	2462	SISO	1	Refer to test graph	-14.39	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-15.10	PASS
	2437	SISO	1	Refer to test graph	-15.10	PASS
	2462	SISO	1	Refer to test graph	-15.10	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-18.00	PASS
	2437	SISO	1	Refer to test graph	-18.00	PASS
	2452	SISO	1	Refer to test graph	-18.00	PASS

4.2 Test Graph

