



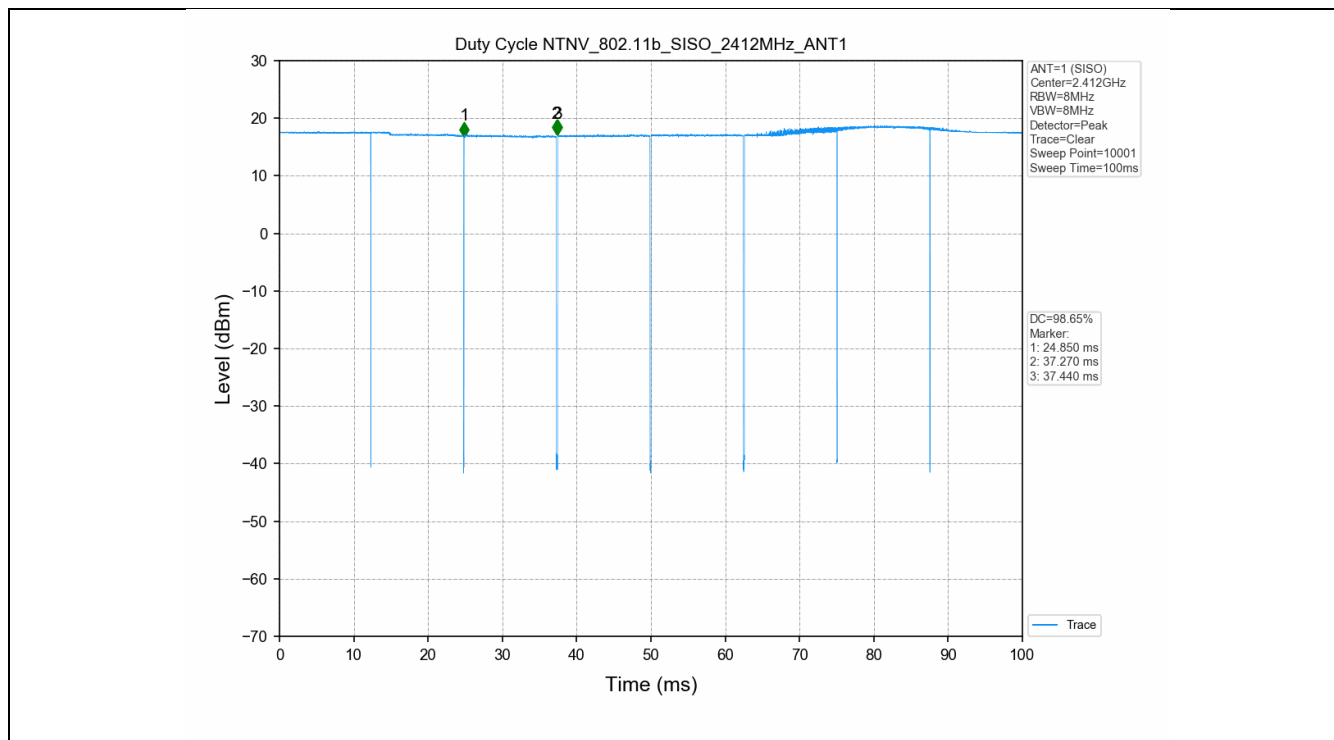
Appendix A for SHEM201000915901

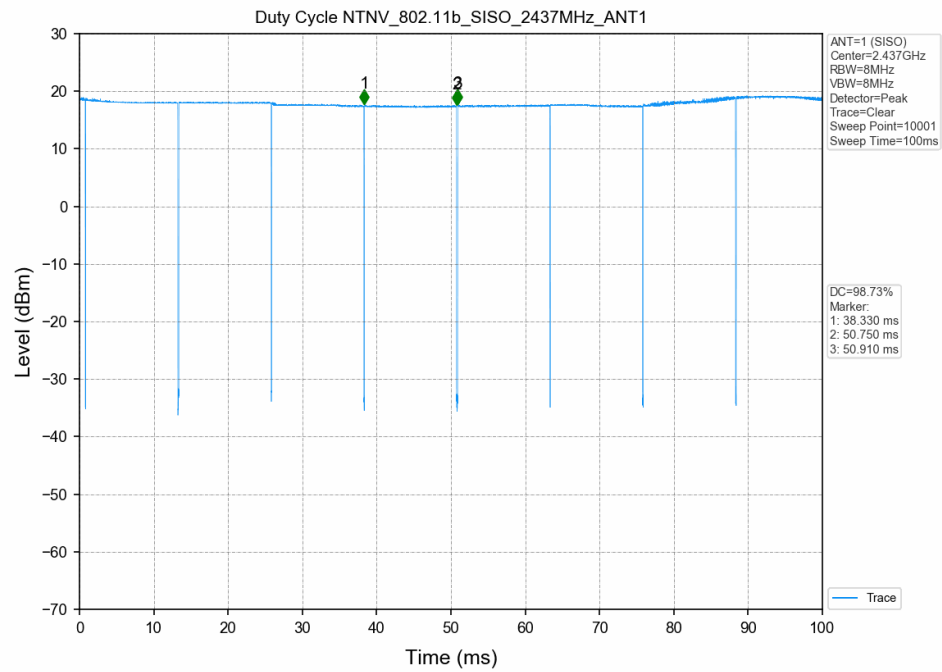
1. Duty Cycle

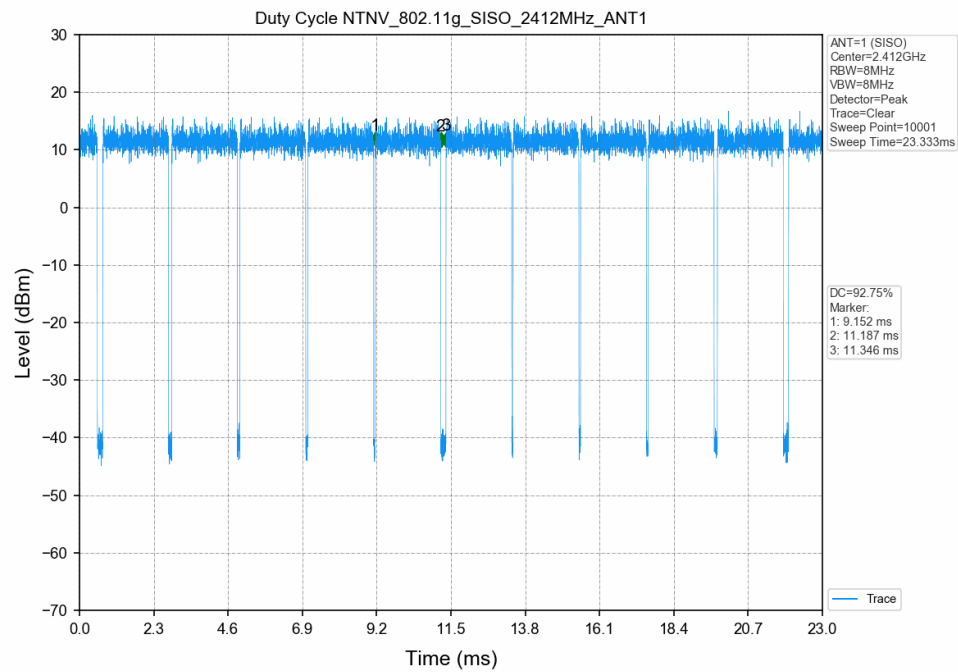
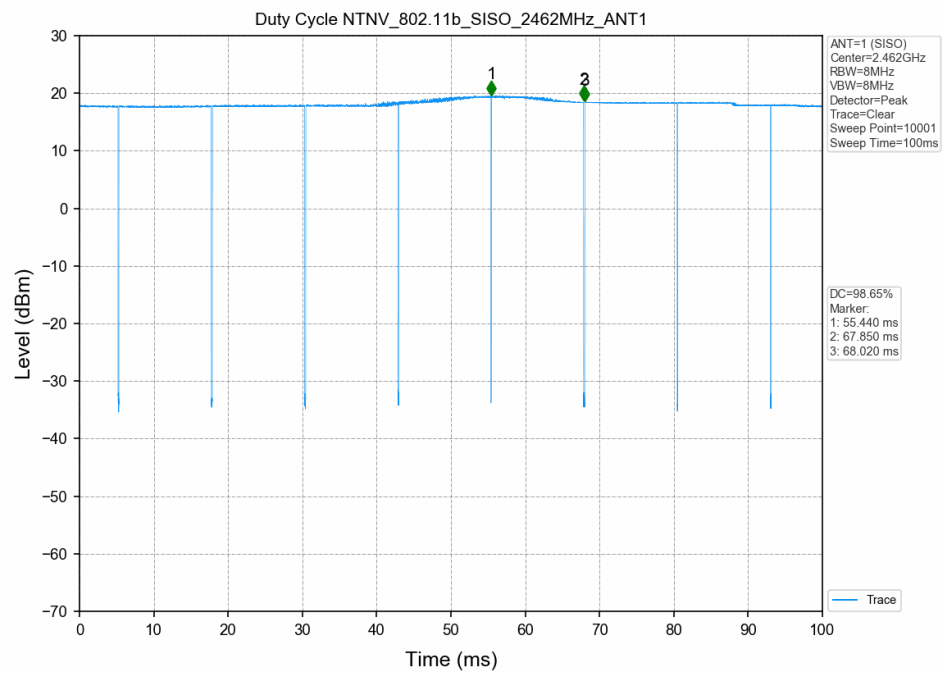
1.1 Test Result

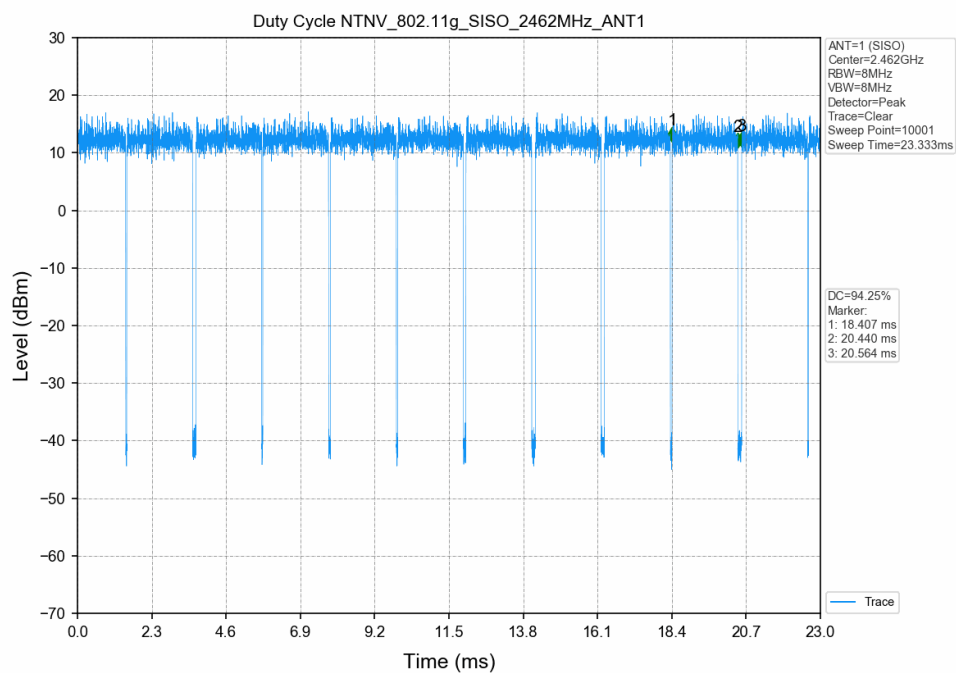
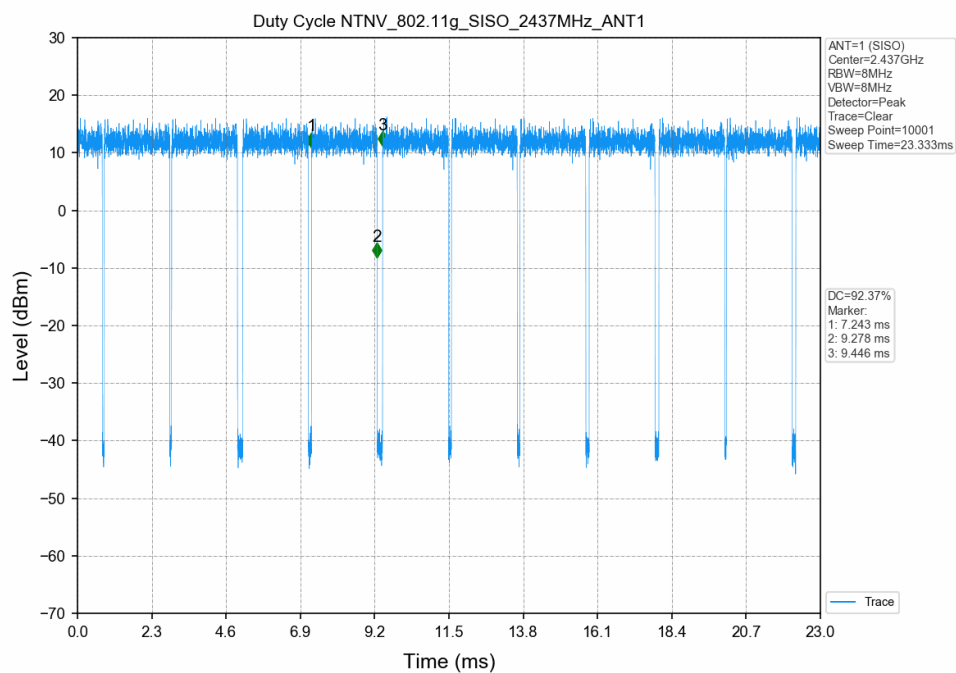
Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.420	12.590	98.65	0.06
	2437	SISO	1	12.420	12.580	98.73	0.06
	2462	SISO	1	12.410	12.580	98.65	0.06
802.11g	2412	SISO	1	2.035	2.194	92.75	0.33
	2437	SISO	1	2.035	2.203	92.37	0.34
	2462	SISO	1	2.033	2.157	94.25	0.26
802.11n(HT20)	2412	SISO	1	1.890	2.014	93.84	0.28
	2437	SISO	1	1.890	2.058	91.84	0.37
	2462	SISO	1	1.890	2.058	91.84	0.37
802.11n(HT40)	2422	SISO	1	0.917	1.082	84.75	0.72
	2437	SISO	1	0.916	1.056	86.74	0.62
	2452	SISO	1	0.916	1.082	84.66	0.72

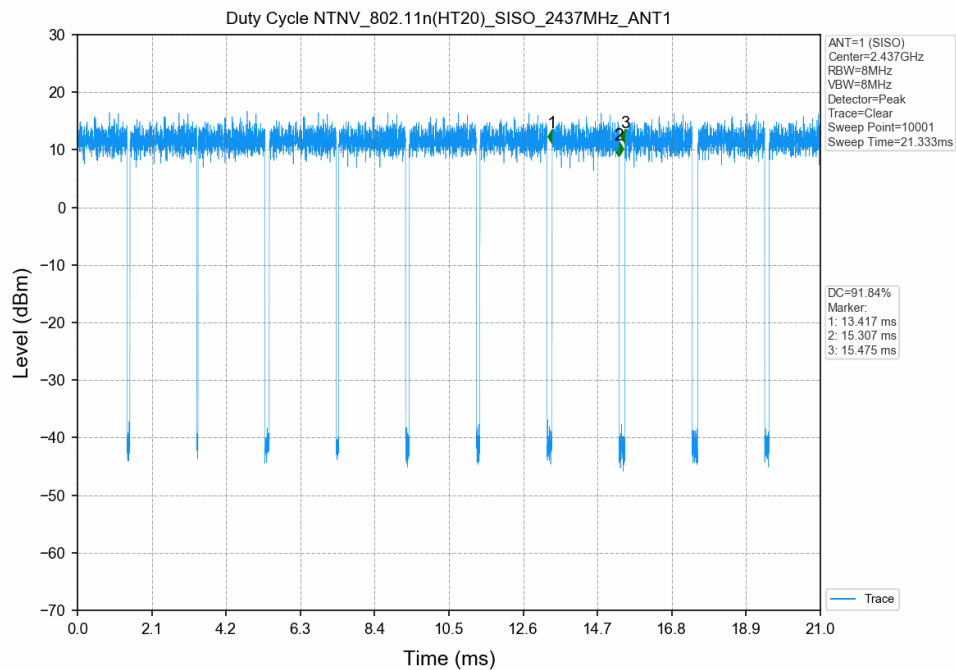
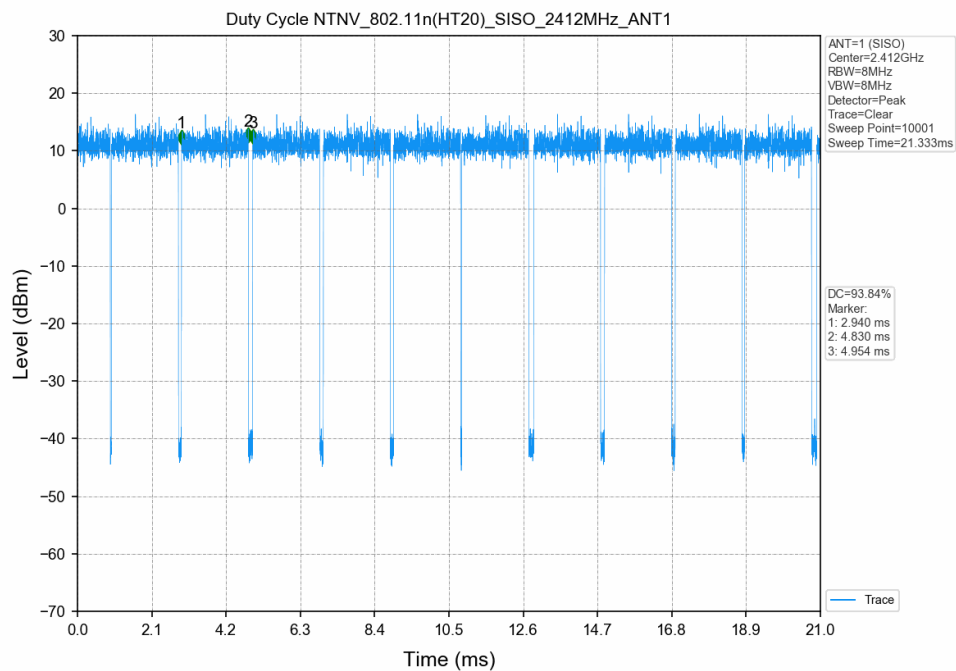
1.2 Test Graph

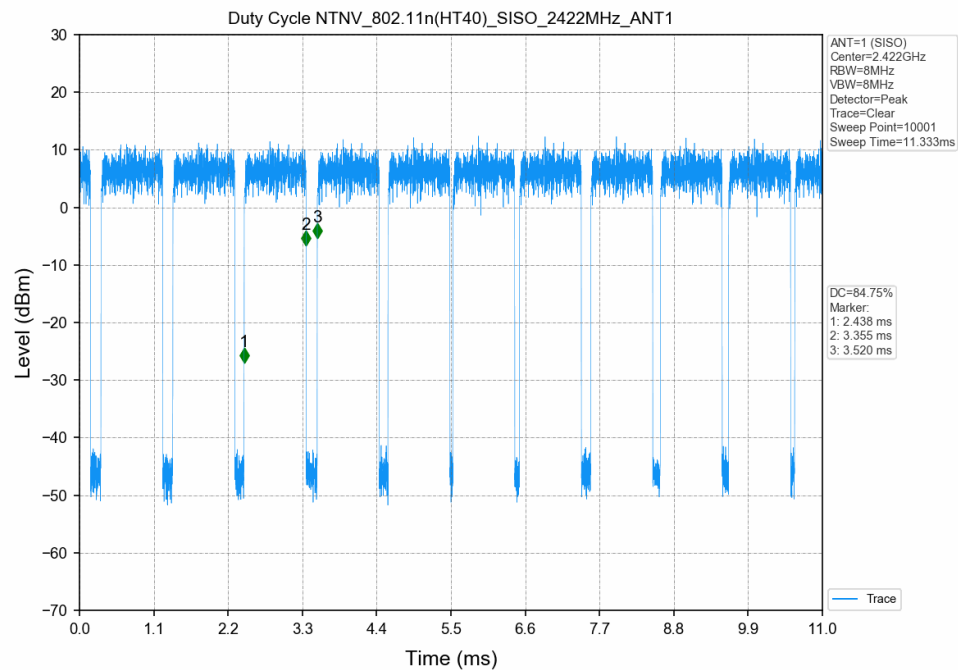
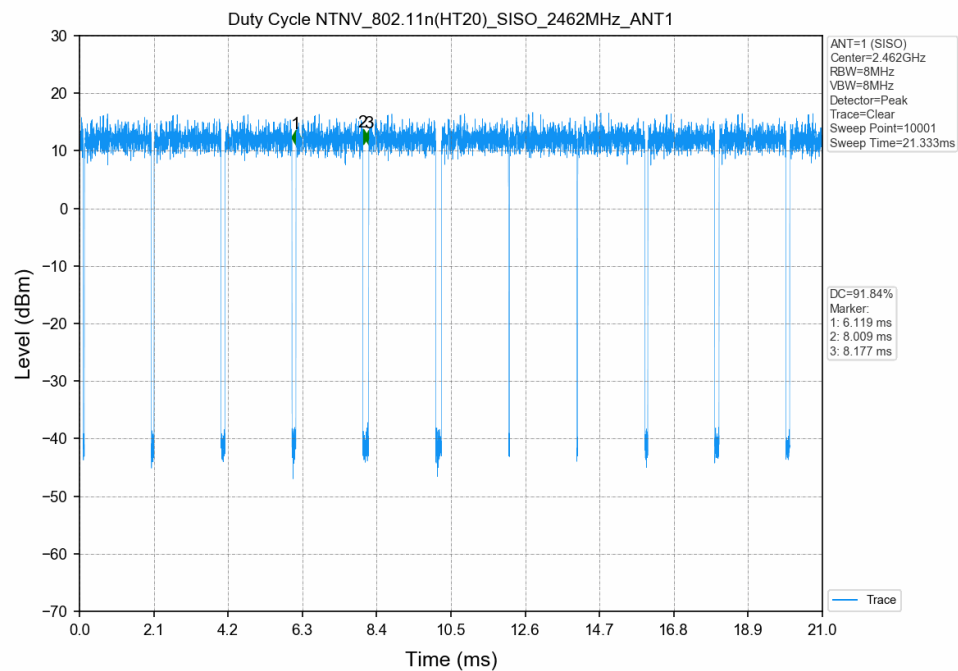


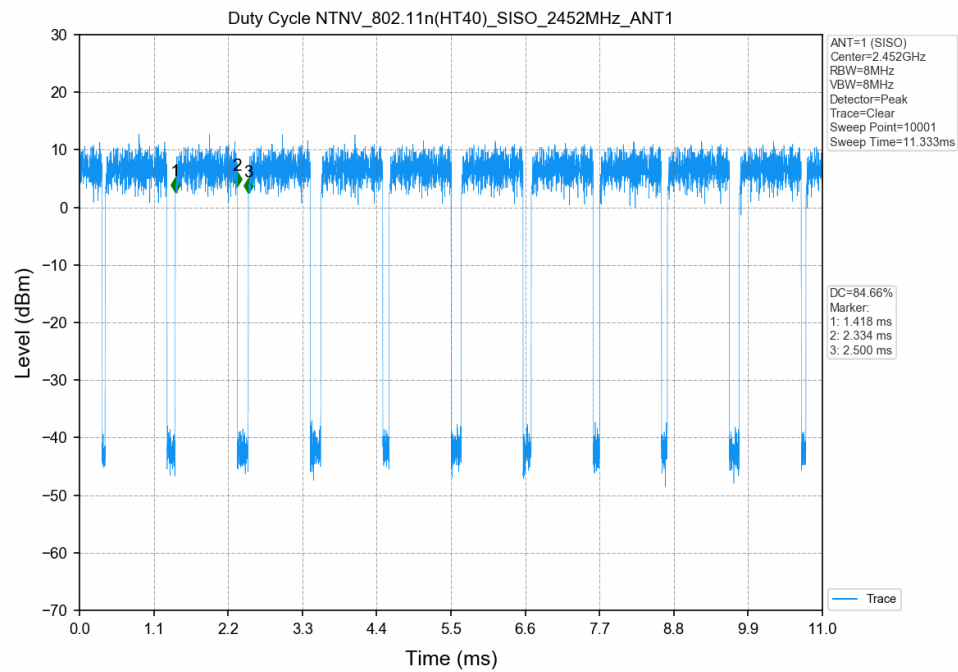
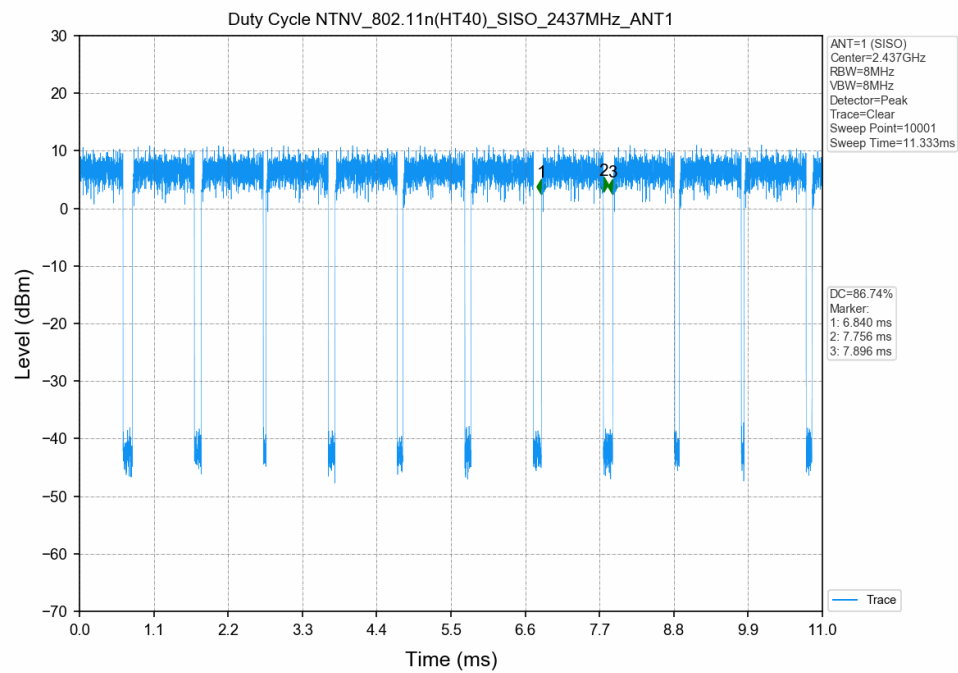














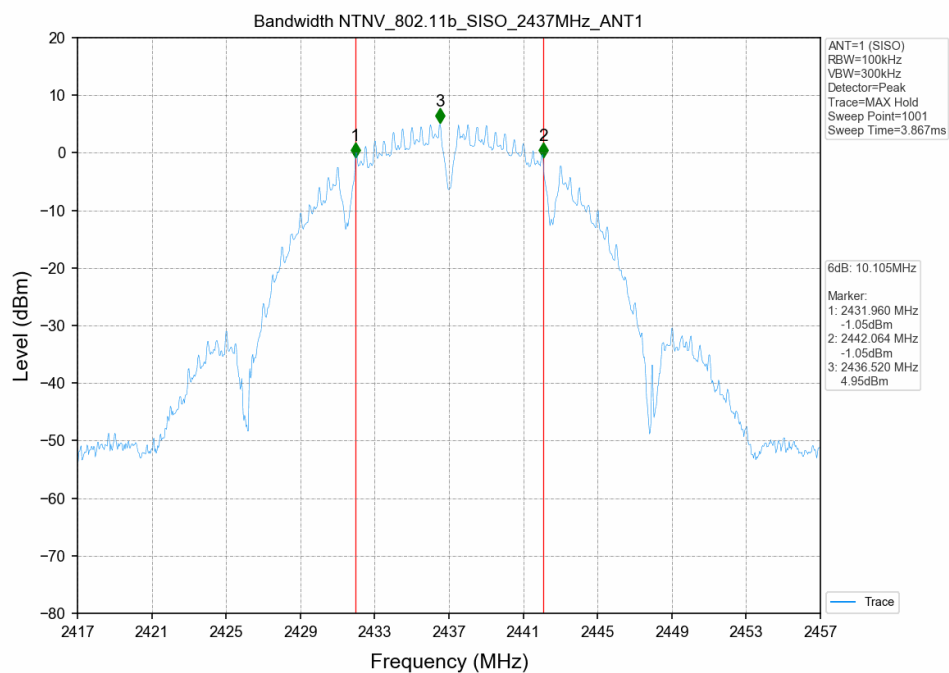
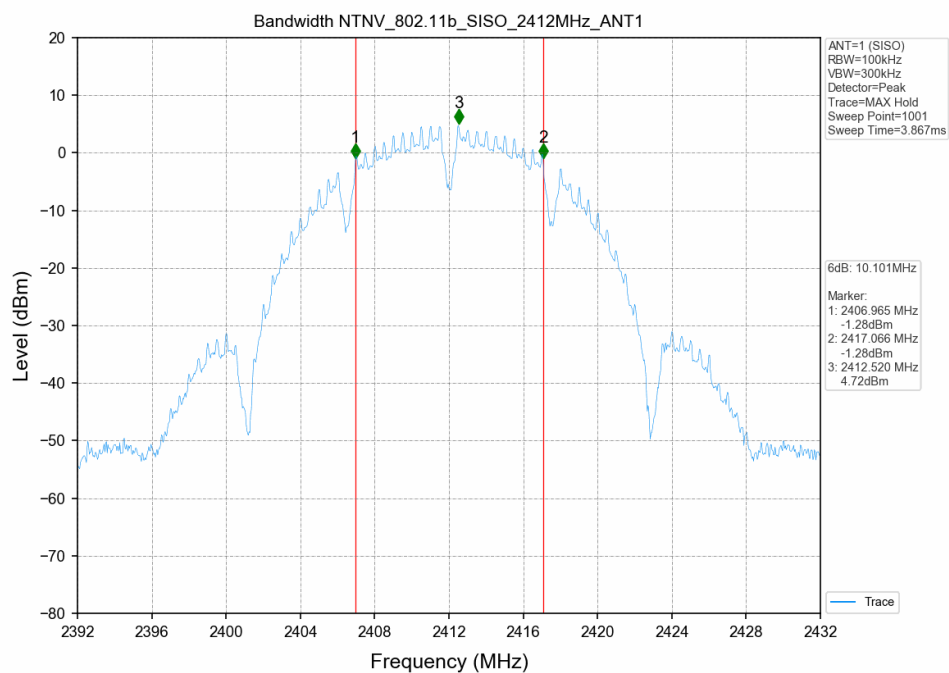
2. Bandwidth

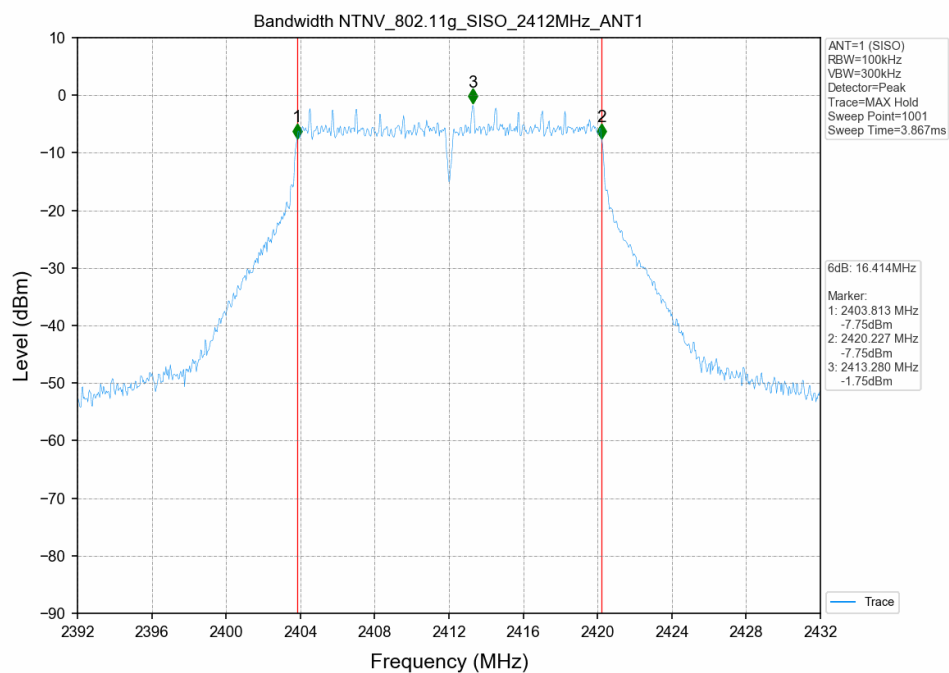
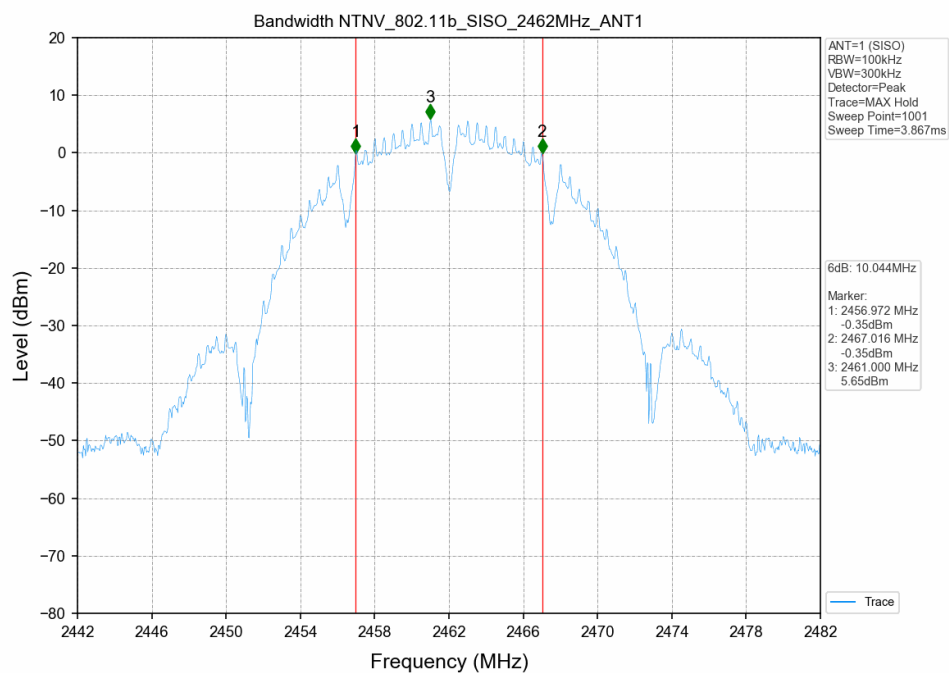
2.1 Test Result

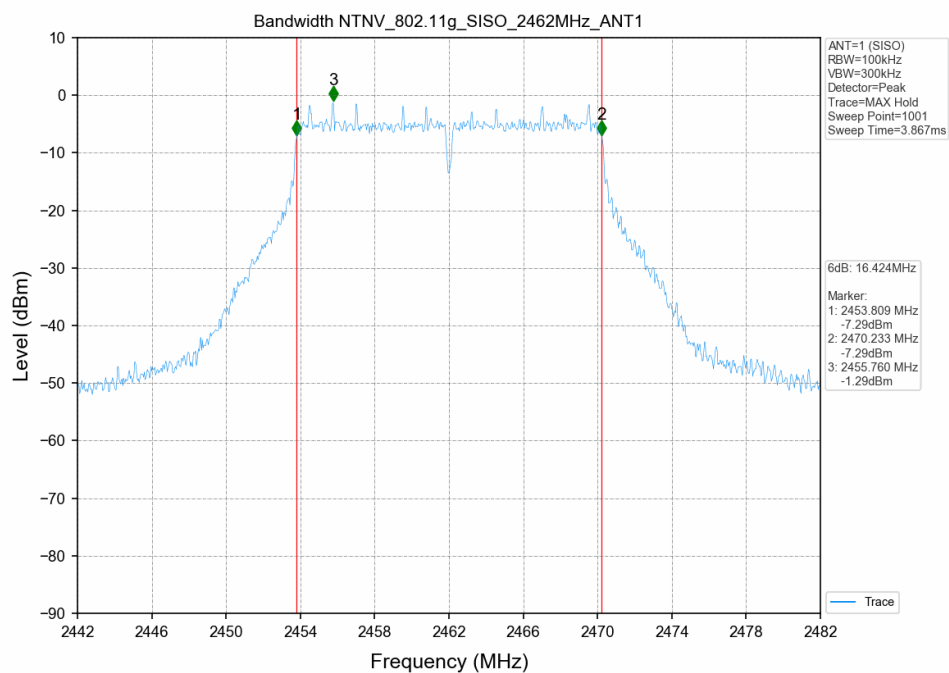
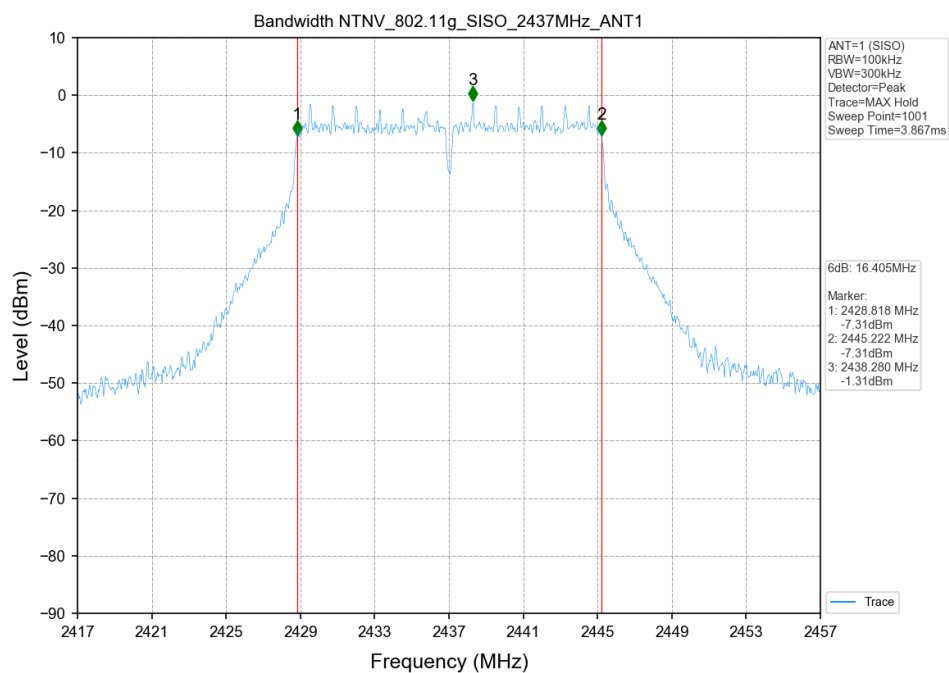
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth					Verdict
				Test Result (MHz)	Limits (MHz)	1.5*BW (MHz)	Span using in the PSD (MHz)	Span using in the Power (MHz)	
802.11b	2412	SISO	1	10.101	≥0.5	15.152	16.000	23.000	PASS
	2437	SISO	1	10.105	≥0.5	15.158	16.000	23.000	PASS
	2462	SISO	1	10.044	≥0.5	15.066	16.000	23.000	PASS
802.11g	2412	SISO	1	16.414	≥0.5	24.621	25.000	26.000	PASS
	2437	SISO	1	16.405	≥0.5	24.608	25.000	26.000	PASS
	2462	SISO	1	16.424	≥0.5	24.636	25.000	26.000	PASS
802.11n(HT20)	2412	SISO	1	17.607	≥0.5	26.411	27.000	28.000	PASS
	2437	SISO	1	17.626	≥0.5	26.439	27.000	28.000	PASS
	2462	SISO	1	17.618	≥0.5	26.427	27.000	28.000	PASS
802.11n(HT40)	2422	SISO	1	35.875	≥0.5	53.813	54.000	55.000	PASS
	2437	SISO	1	36.097	≥0.5	54.146	55.000	55.000	PASS
	2452	SISO	1	35.613	≥0.5	53.420	54.000	55.000	PASS

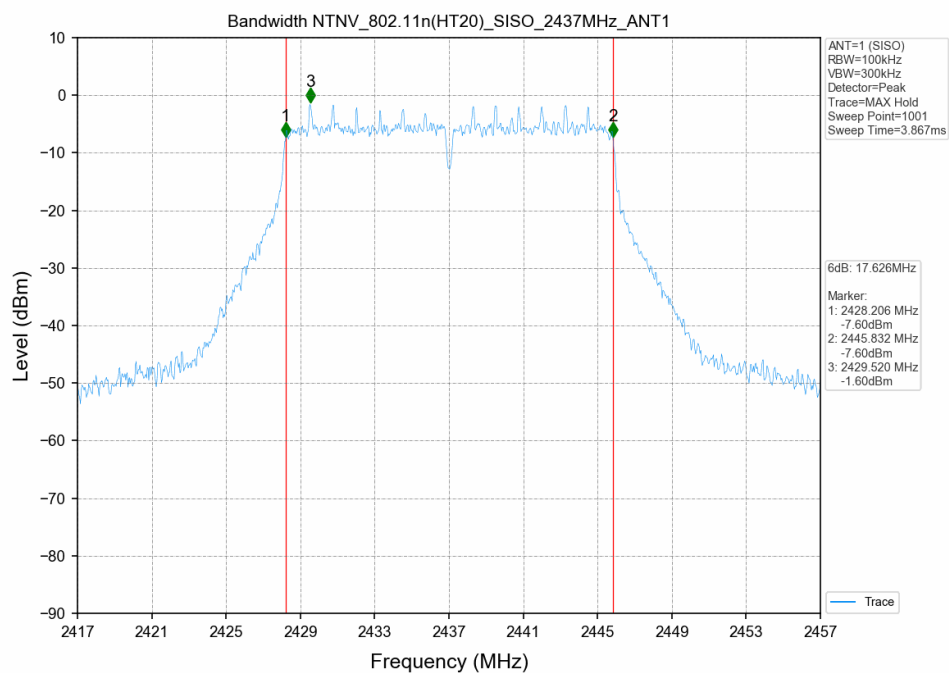
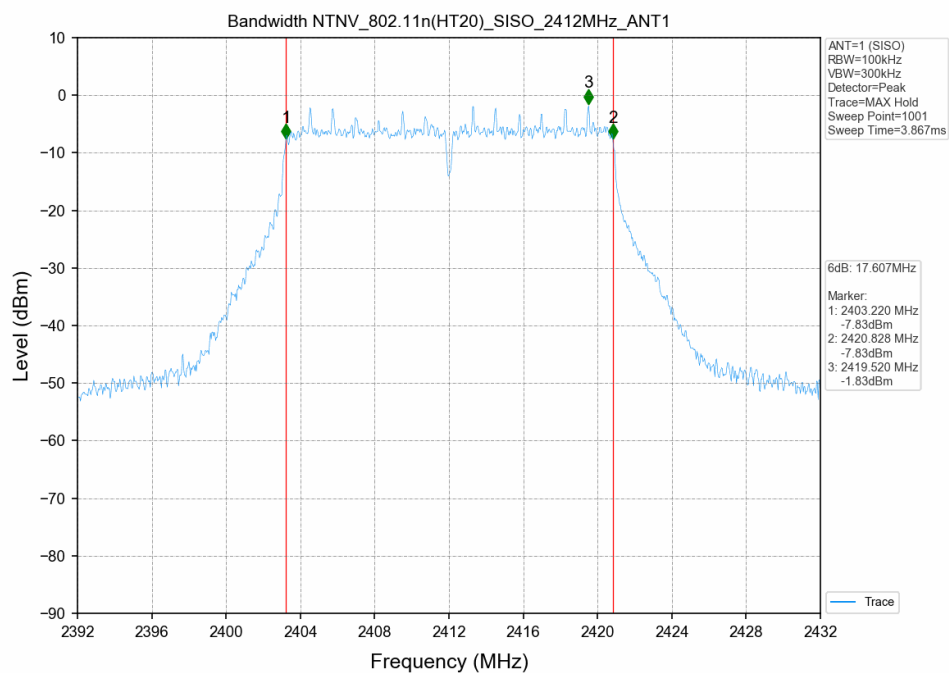
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.099	Only for Report Use
	2437	SISO	1	15.097	Only for Report Use
	2462	SISO	1	15.090	Only for Report Use
802.11g	2412	SISO	1	17.106	Only for Report Use
	2437	SISO	1	17.030	Only for Report Use
	2462	SISO	1	17.040	Only for Report Use
802.11n(HT20)	2412	SISO	1	18.018	Only for Report Use
	2437	SISO	1	18.130	Only for Report Use
	2462	SISO	1	18.021	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.515	Only for Report Use
	2437	SISO	1	36.662	Only for Report Use
	2452	SISO	1	36.571	Only for Report Use

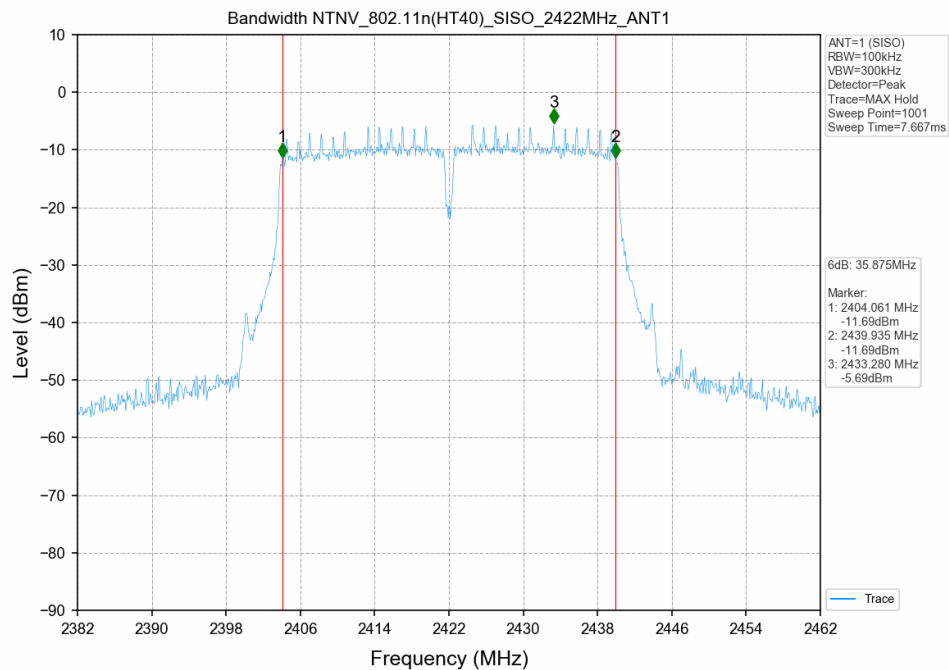
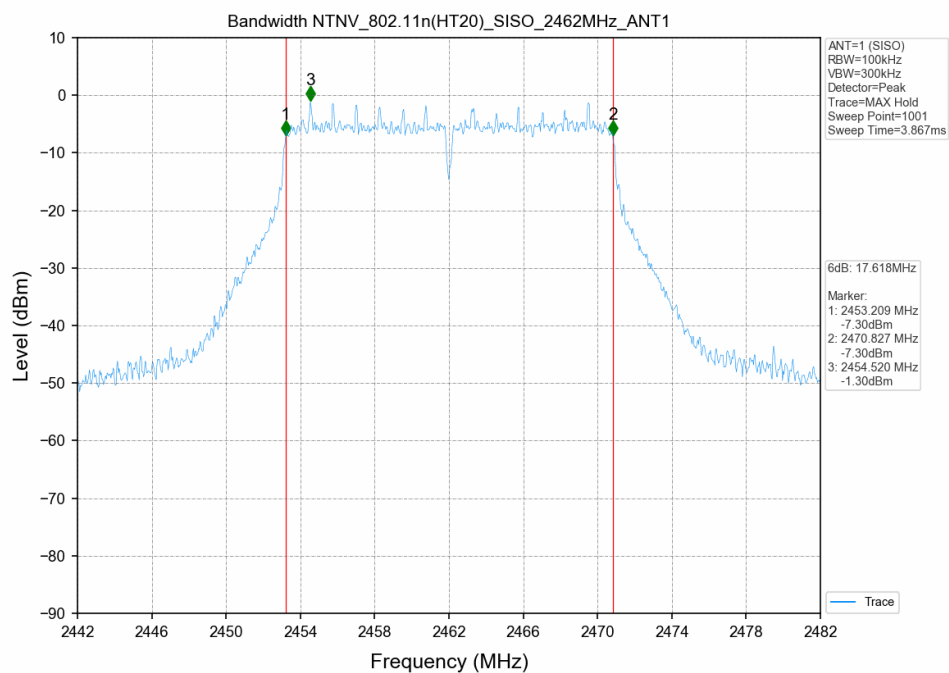
2.2 Test Graph - 6dB Bandwidth

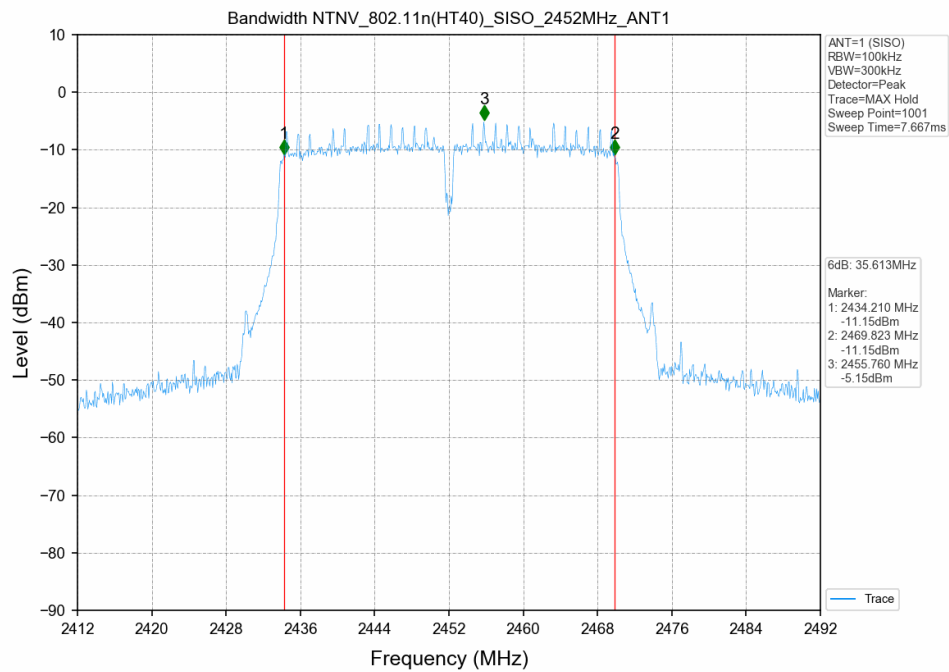
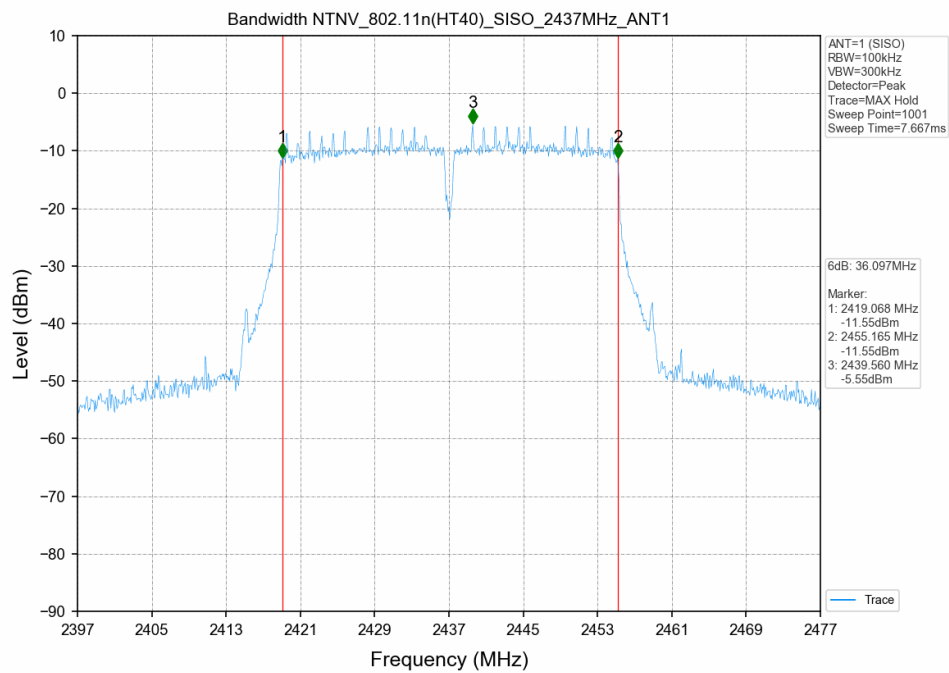






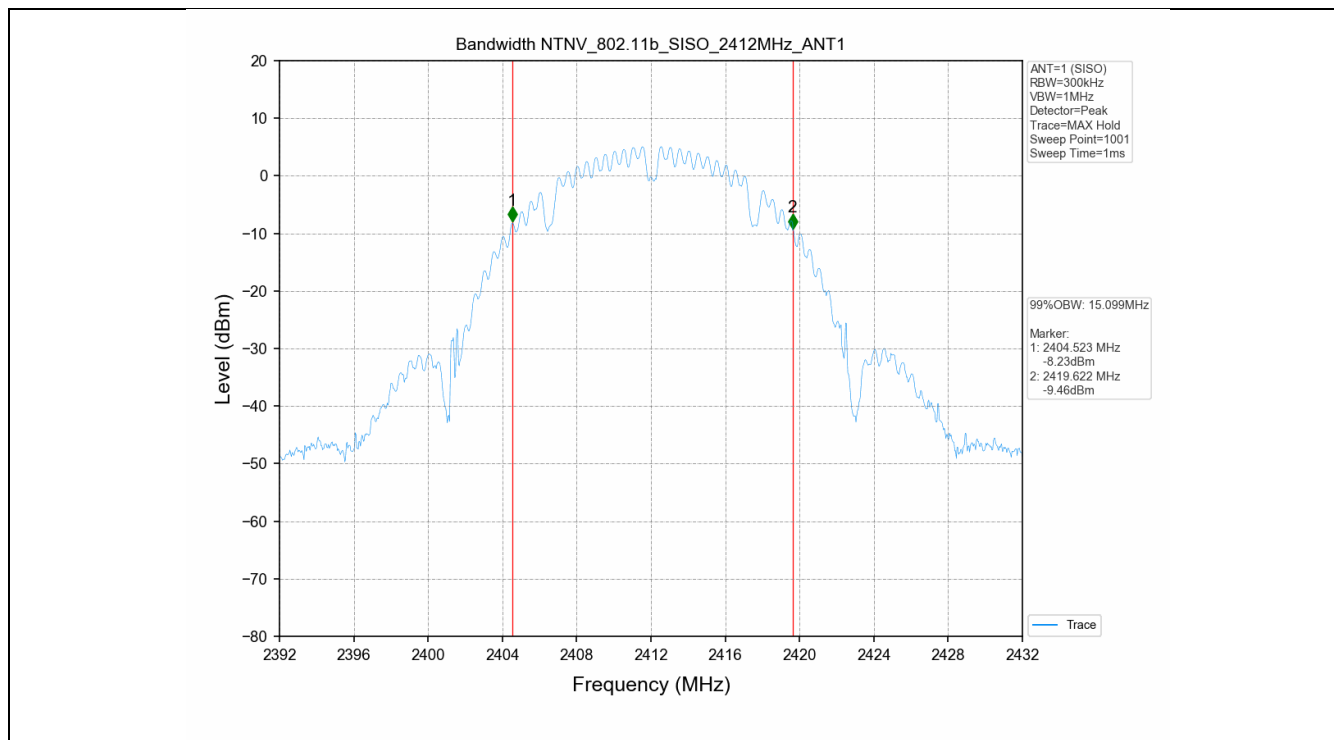


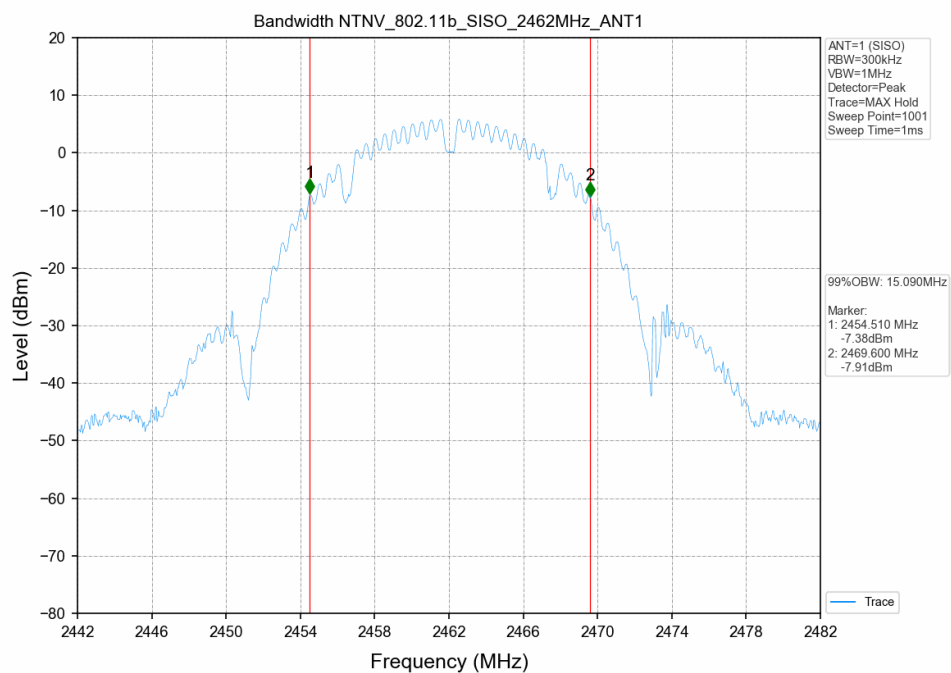
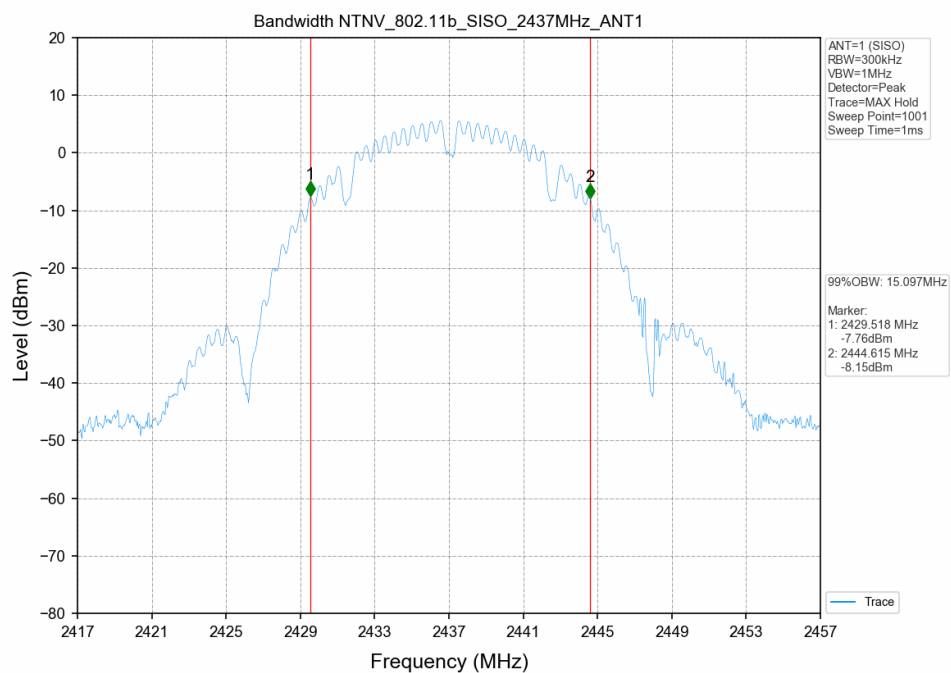


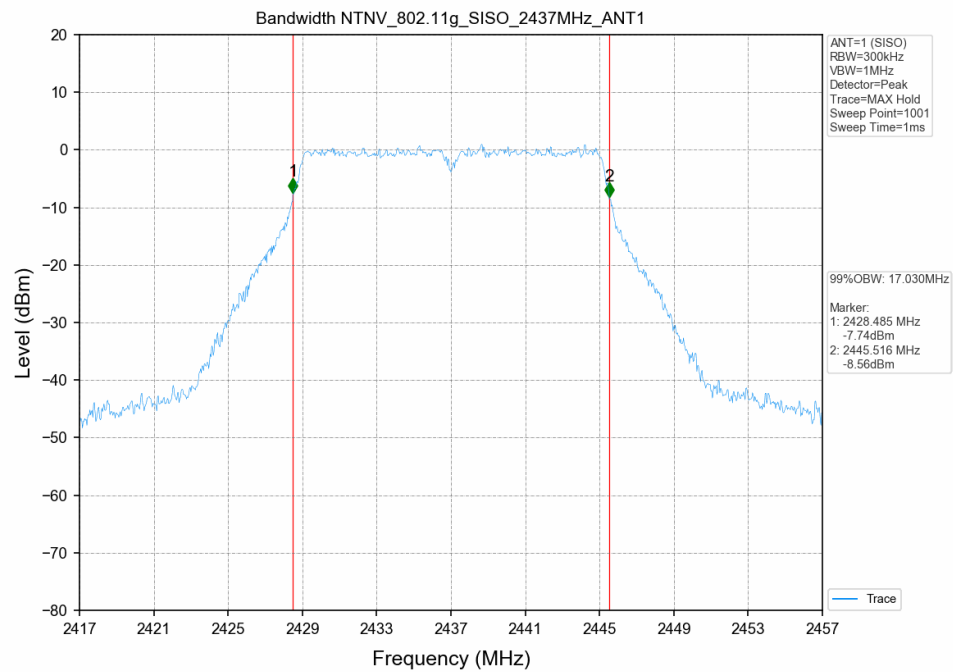
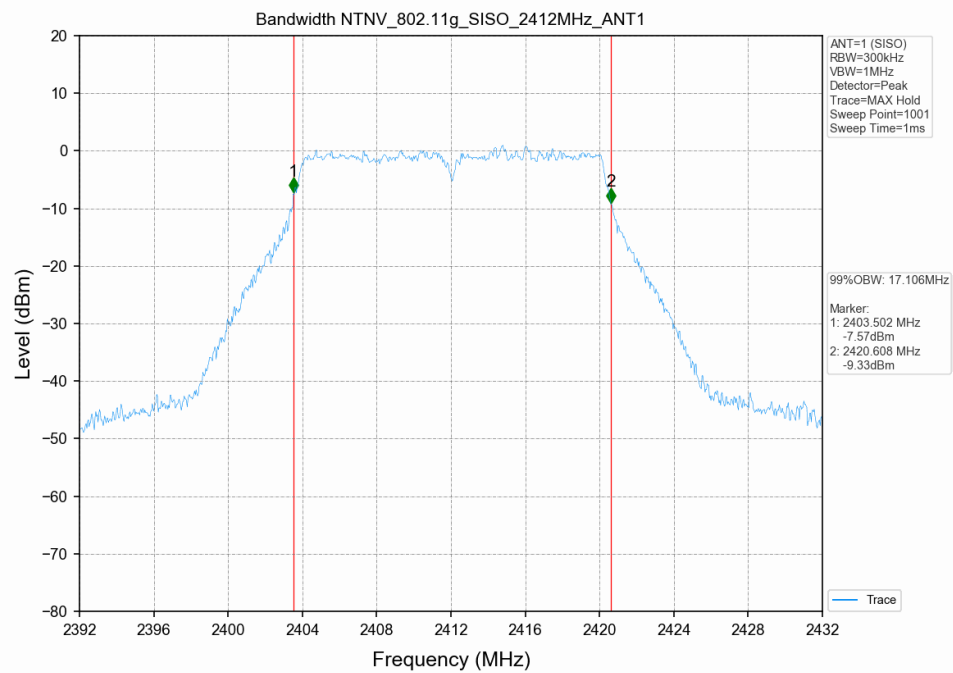


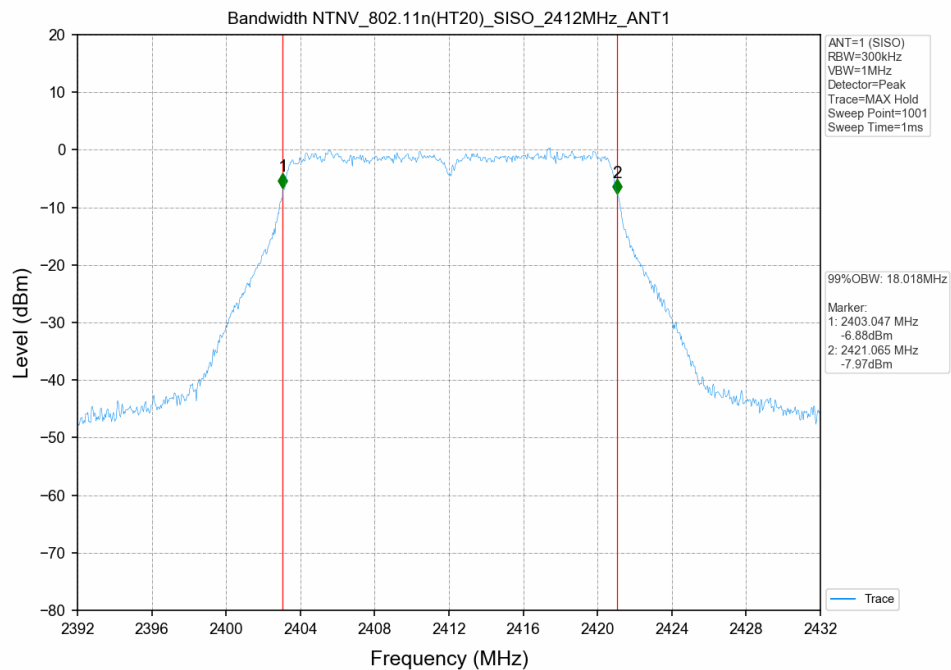
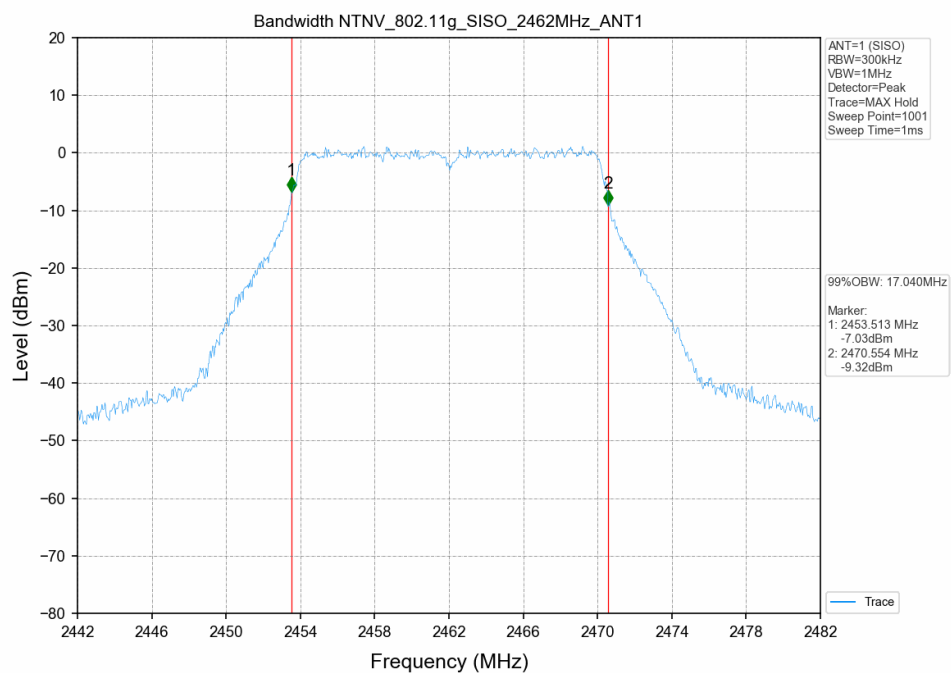


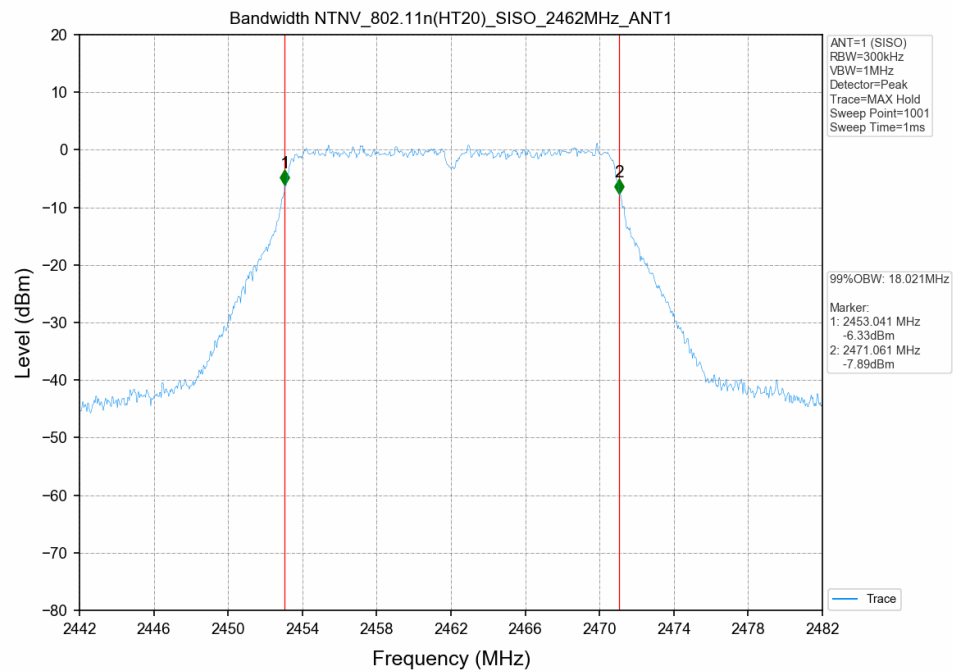
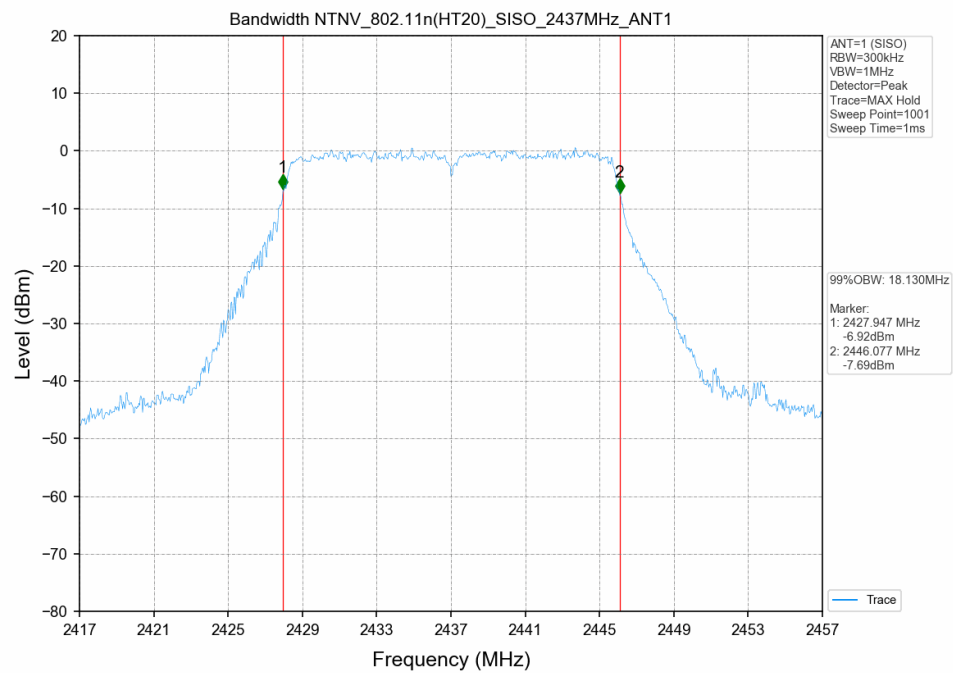
2.3 Test Graph - 99% Occupied Bandwidth

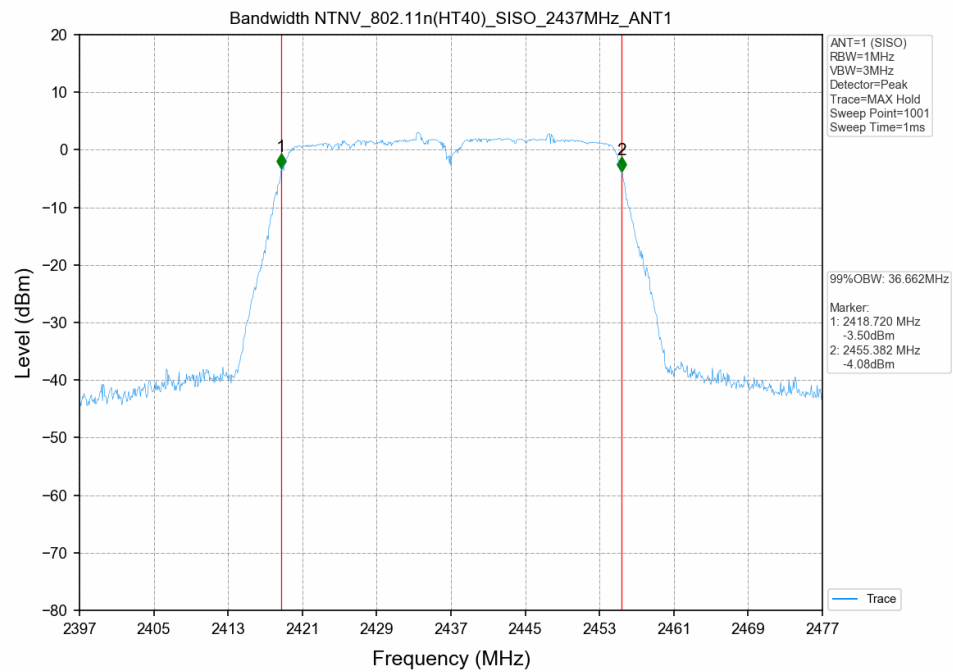
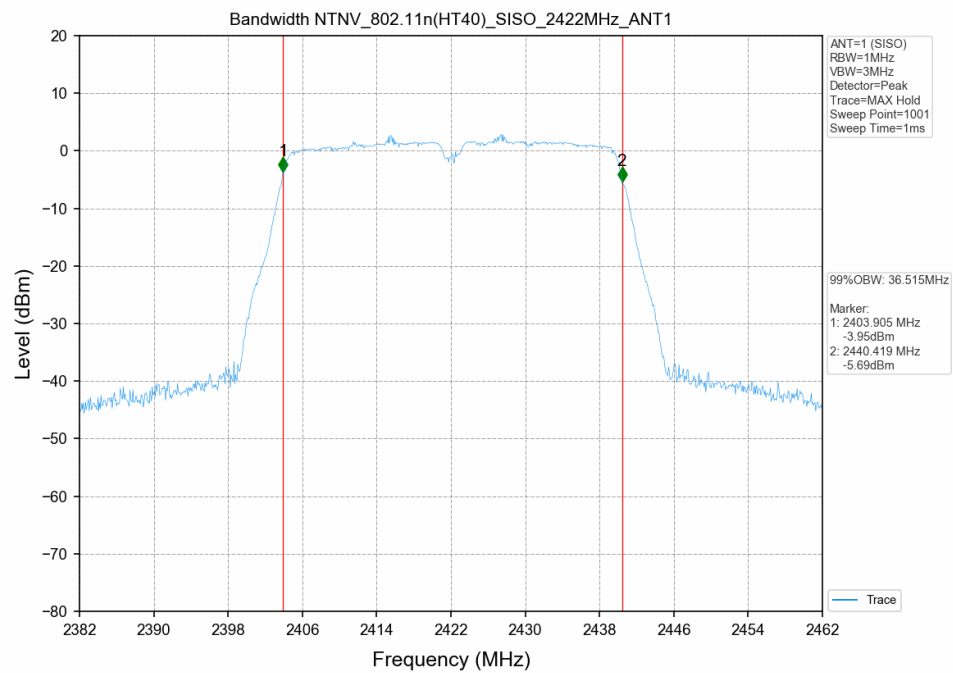


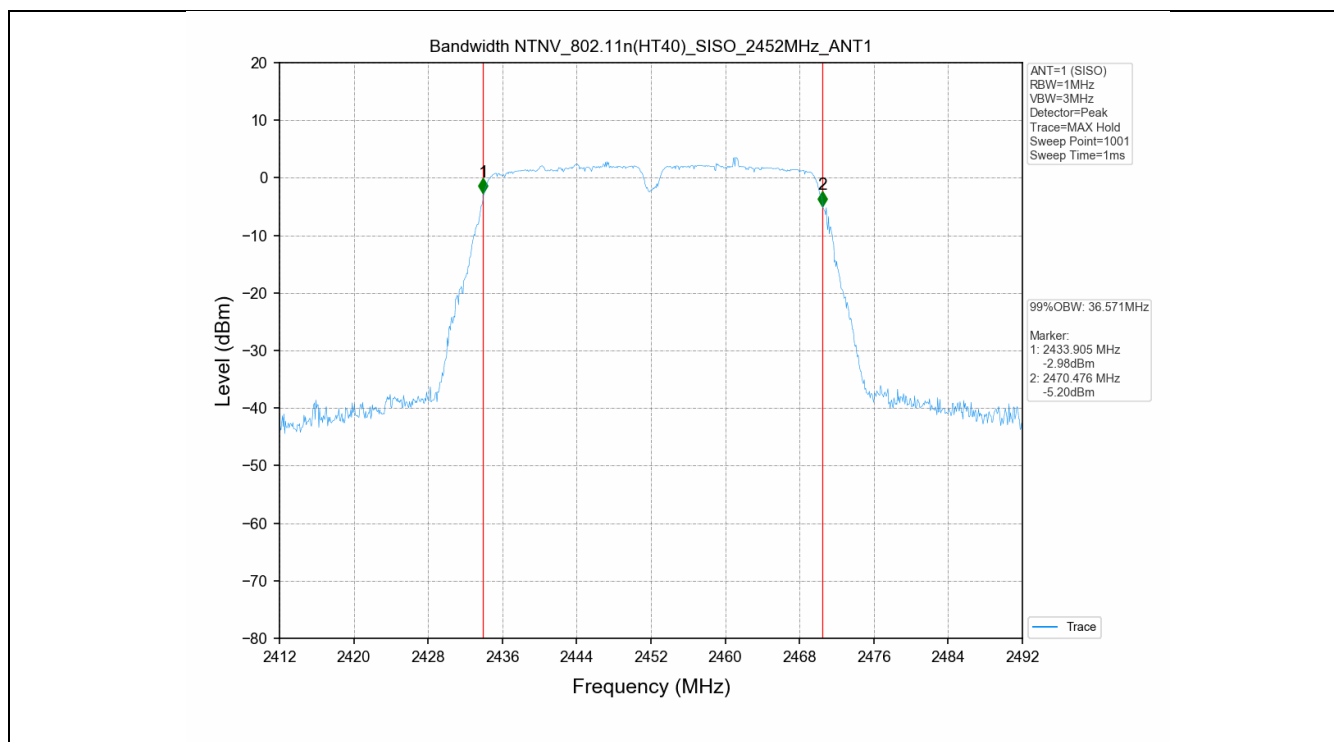










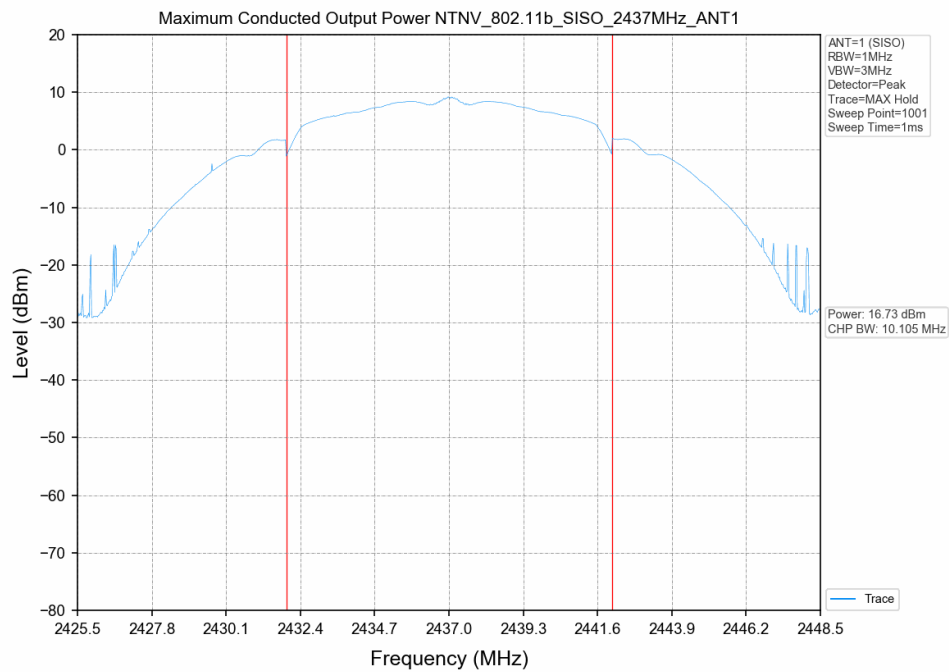
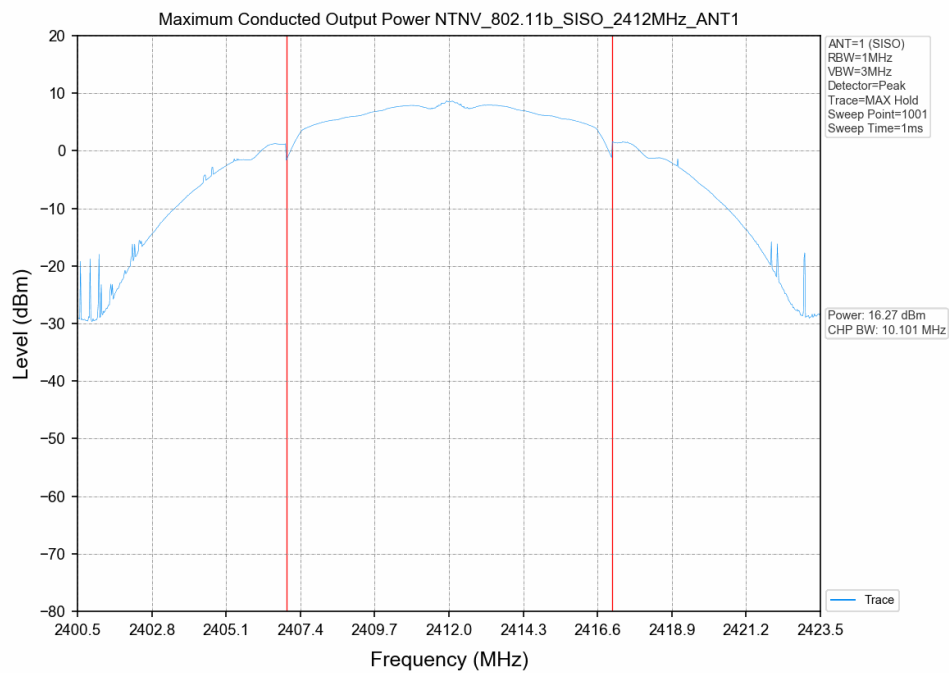


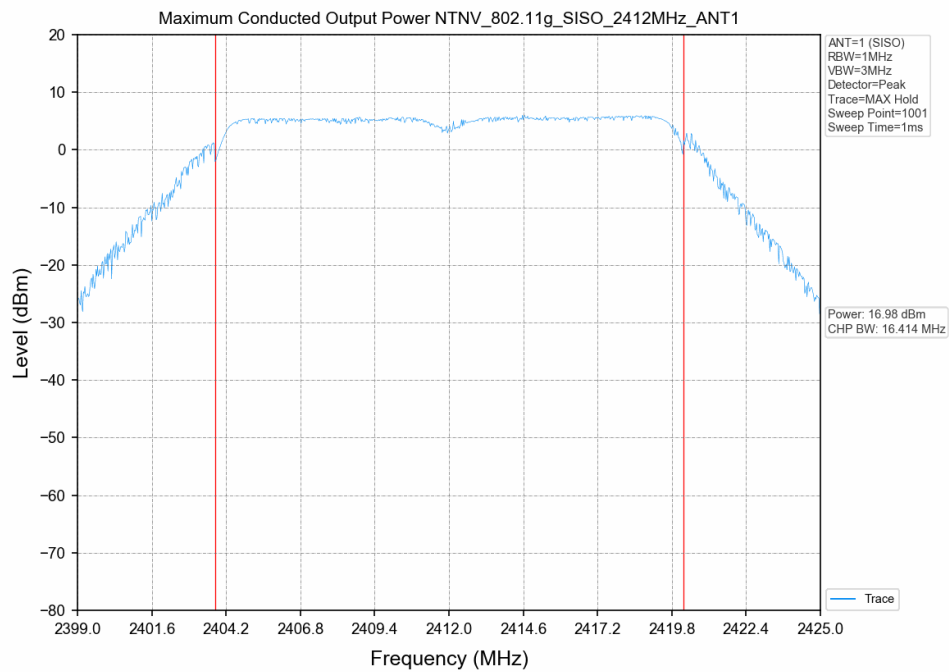
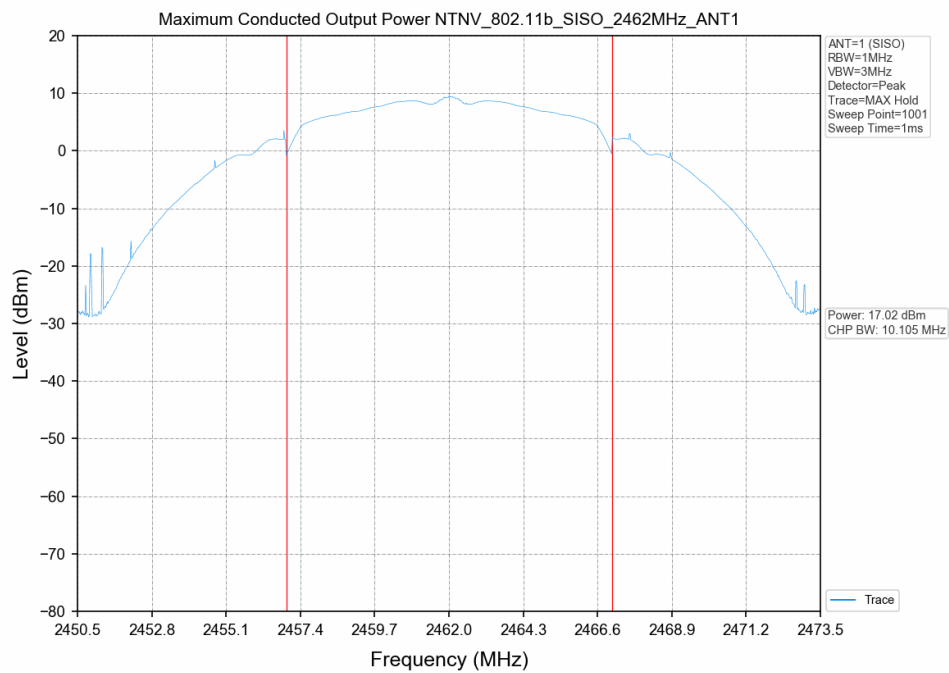
3. Maximum Conducted Output Power

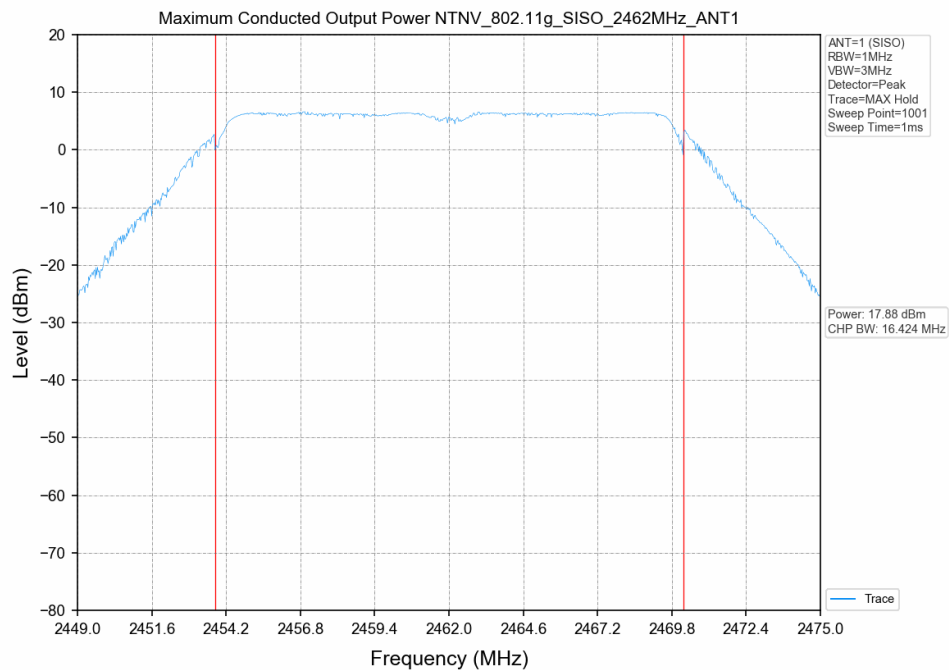
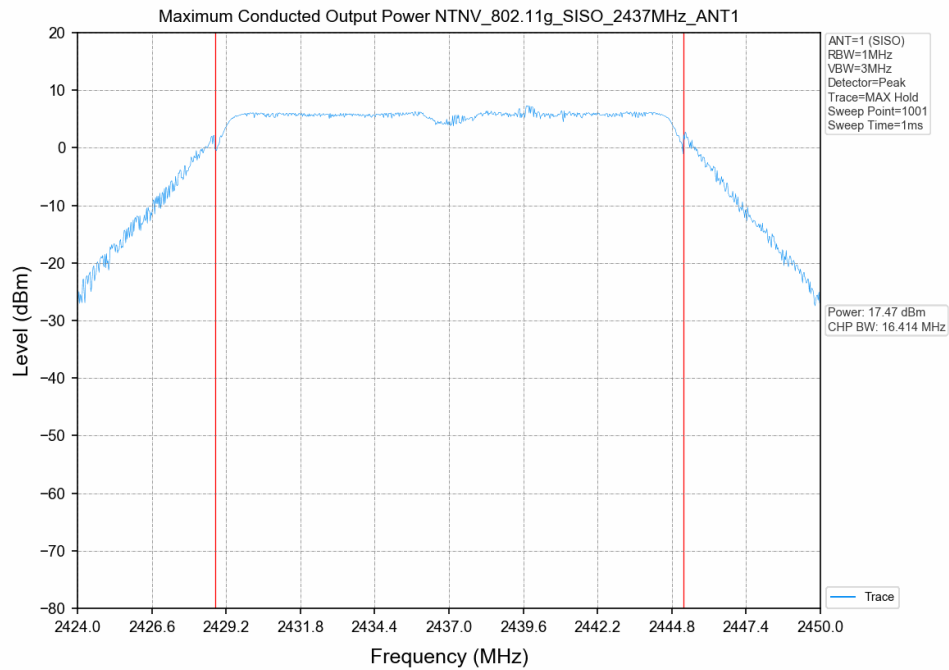
3.1 Test Result

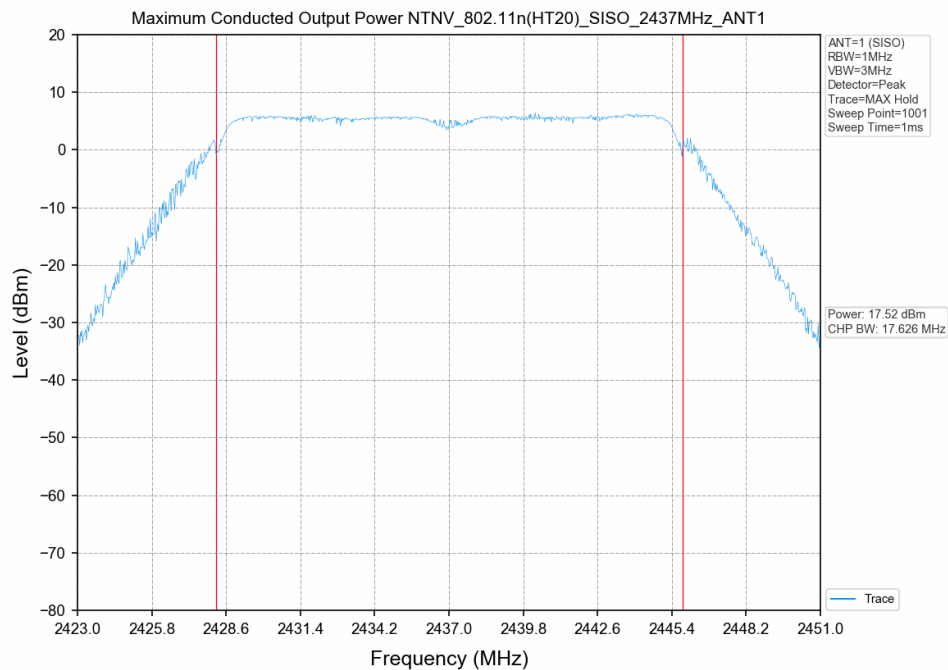
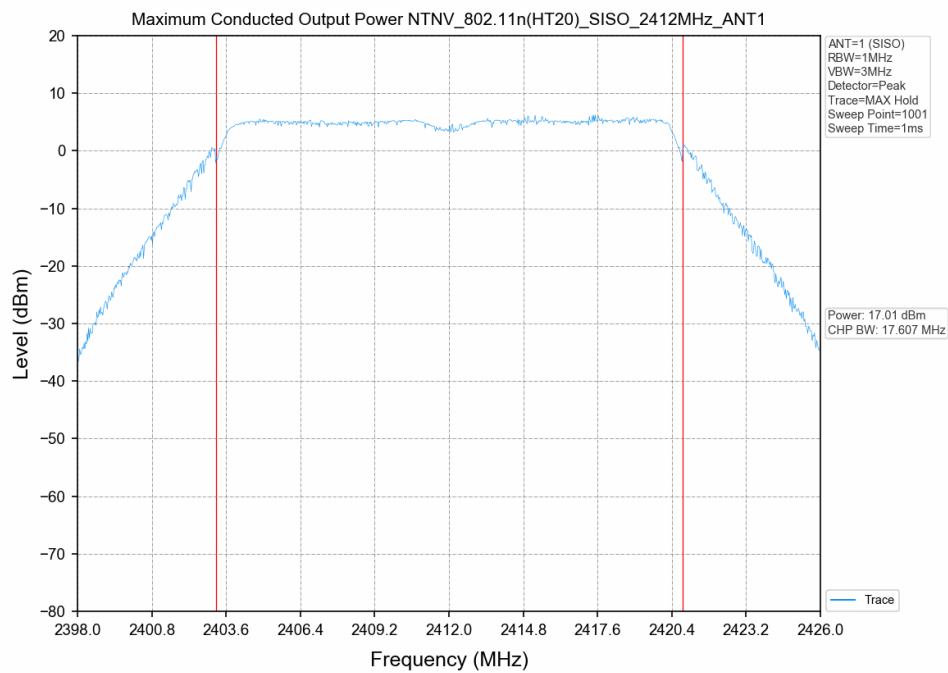
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	16.27	30	PASS
	2437	SISO	16.73	30	PASS
	2462	SISO	17.02	30	PASS
802.11g	2412	SISO	16.98	30	PASS
	2437	SISO	17.47	30	PASS
	2462	SISO	17.88	30	PASS
802.11n(HT20)	2412	SISO	17.01	30	PASS
	2437	SISO	17.52	30	PASS
	2462	SISO	17.80	30	PASS
802.11n(HT40)	2422	SISO	16.06	30	PASS
	2437	SISO	16.40	30	PASS
	2452	SISO	16.66	30	PASS

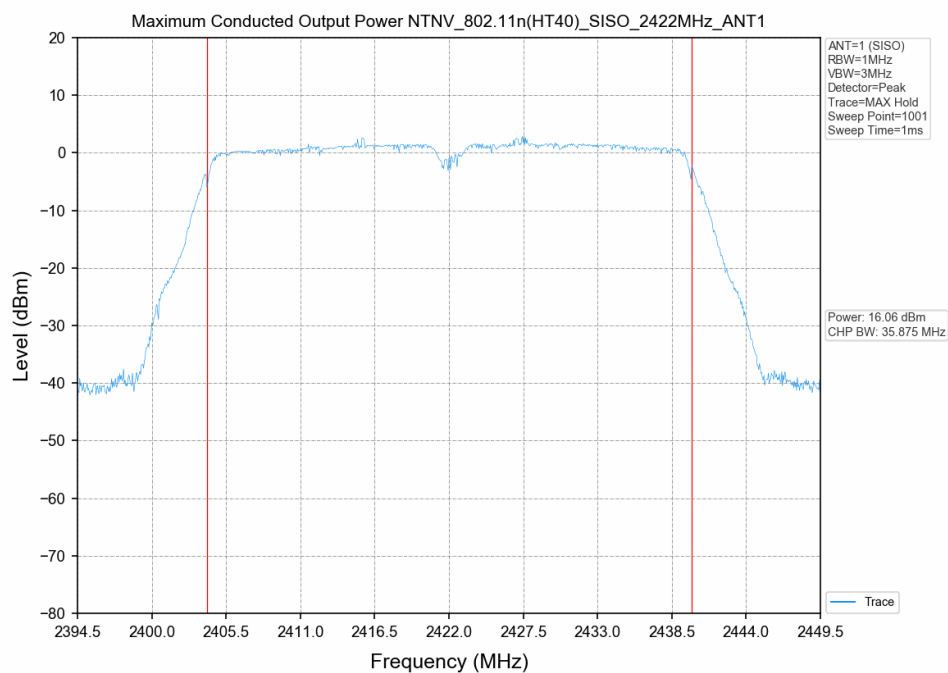
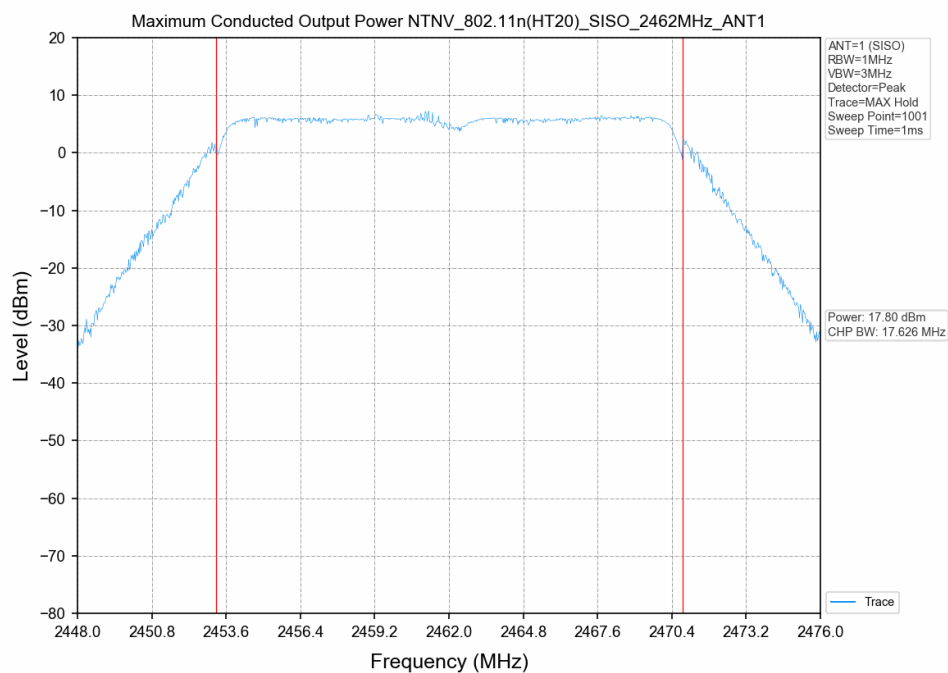
3.2 Test Graph

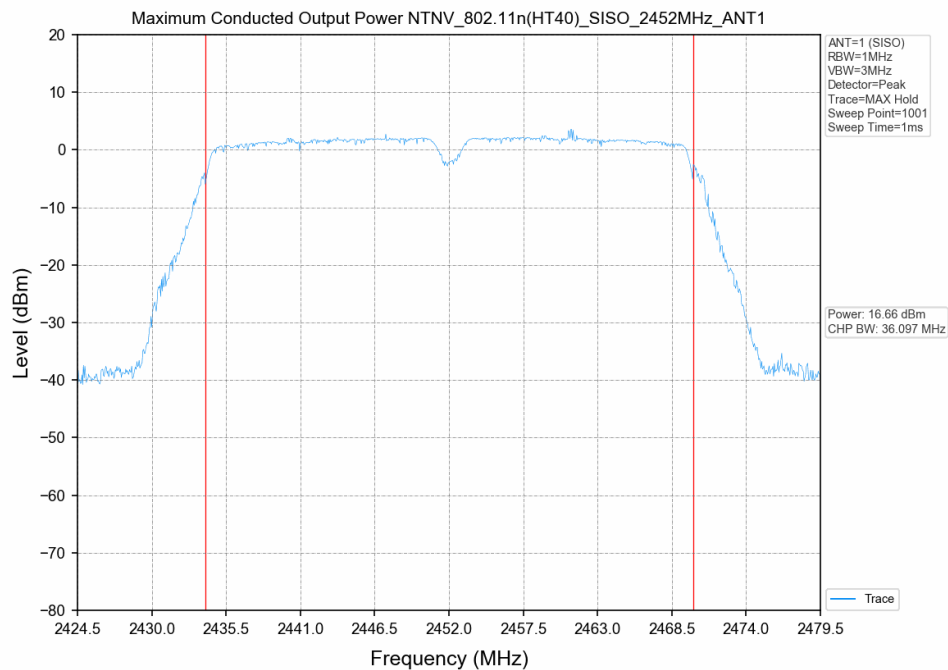
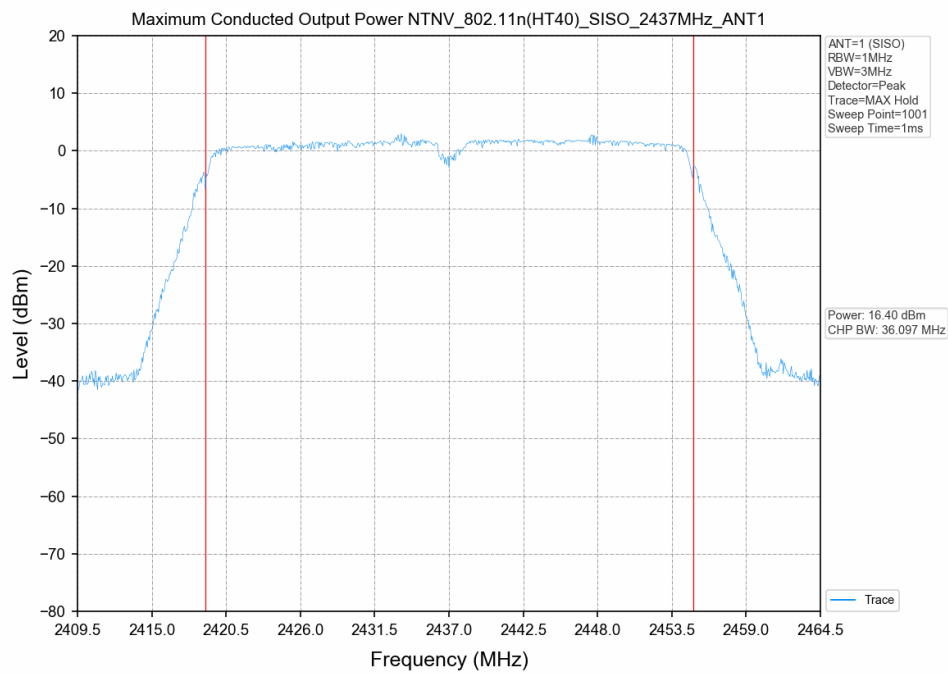










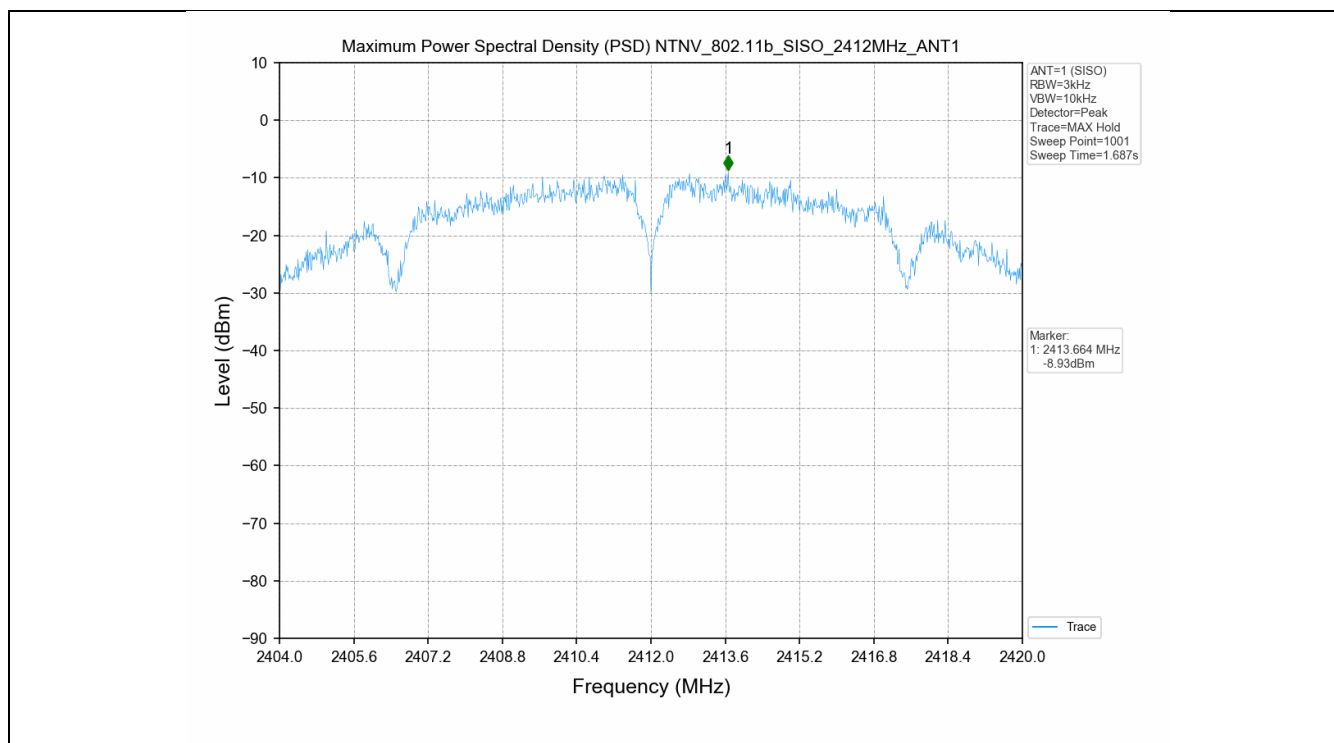


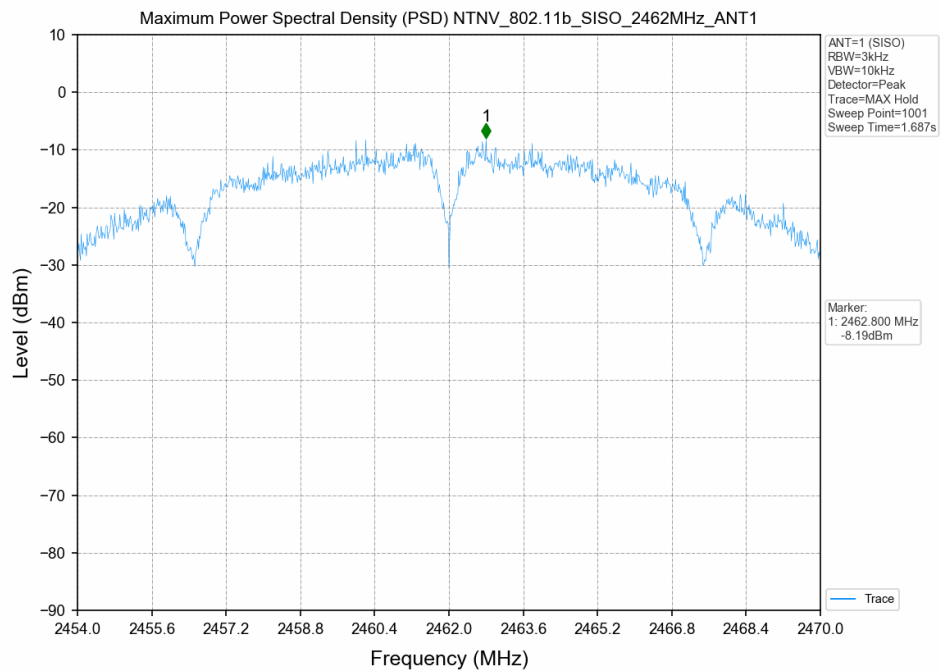
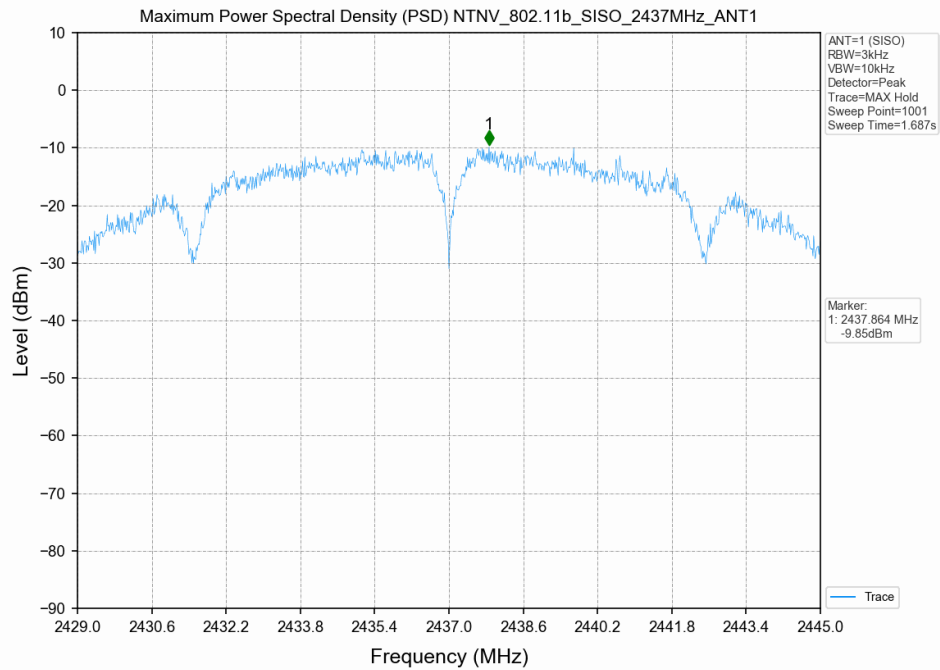
4. Maximum Power Spectral Density (PSD)

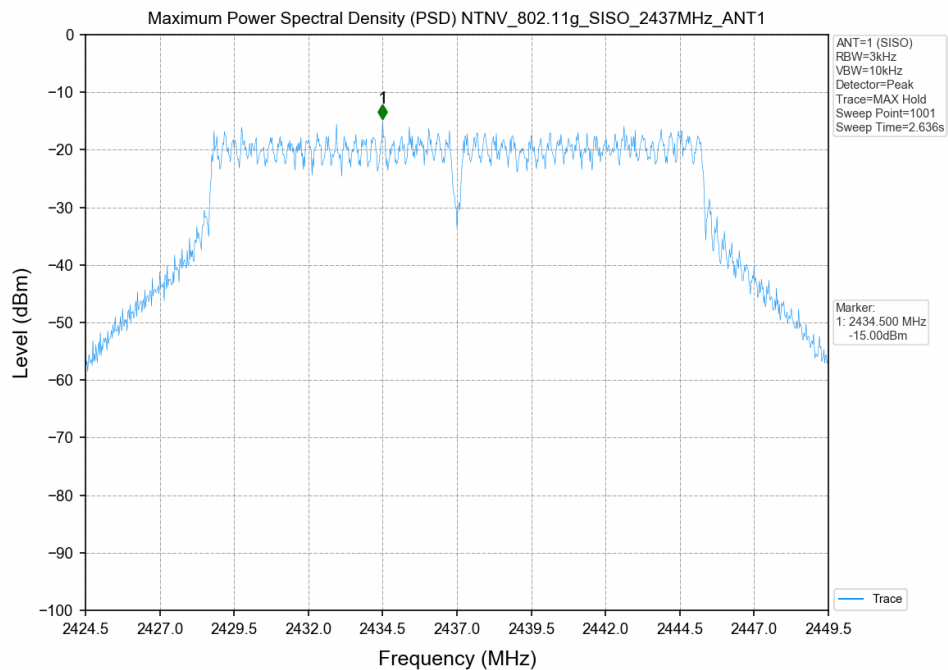
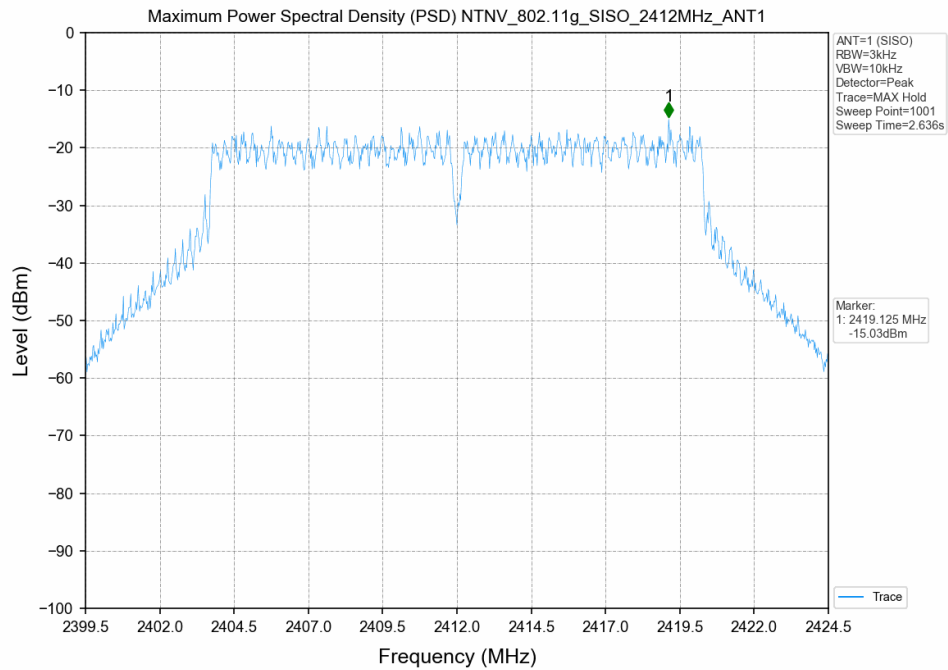
4.1 Test Result

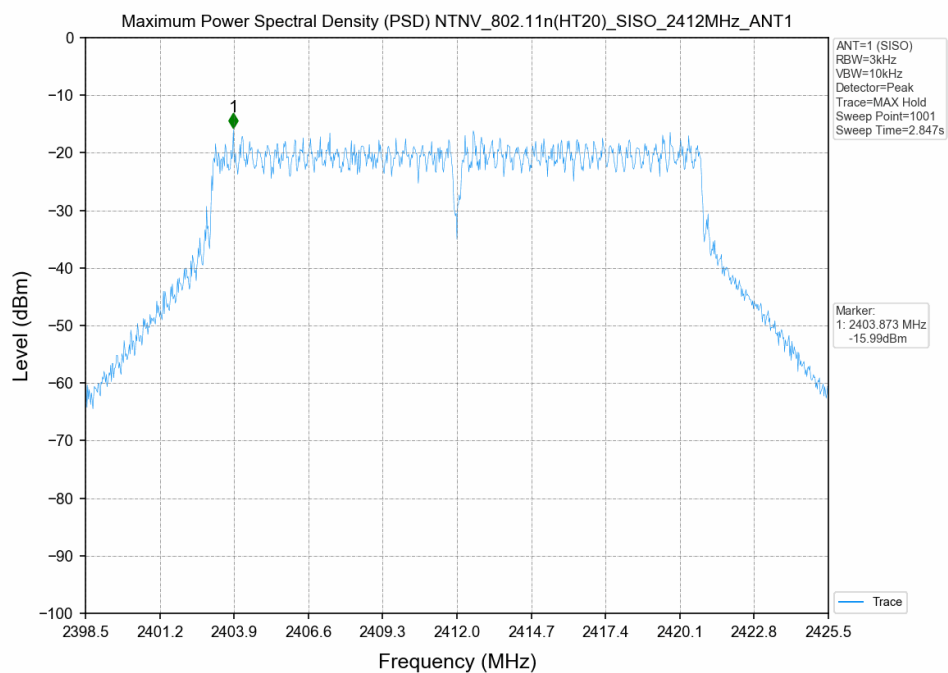
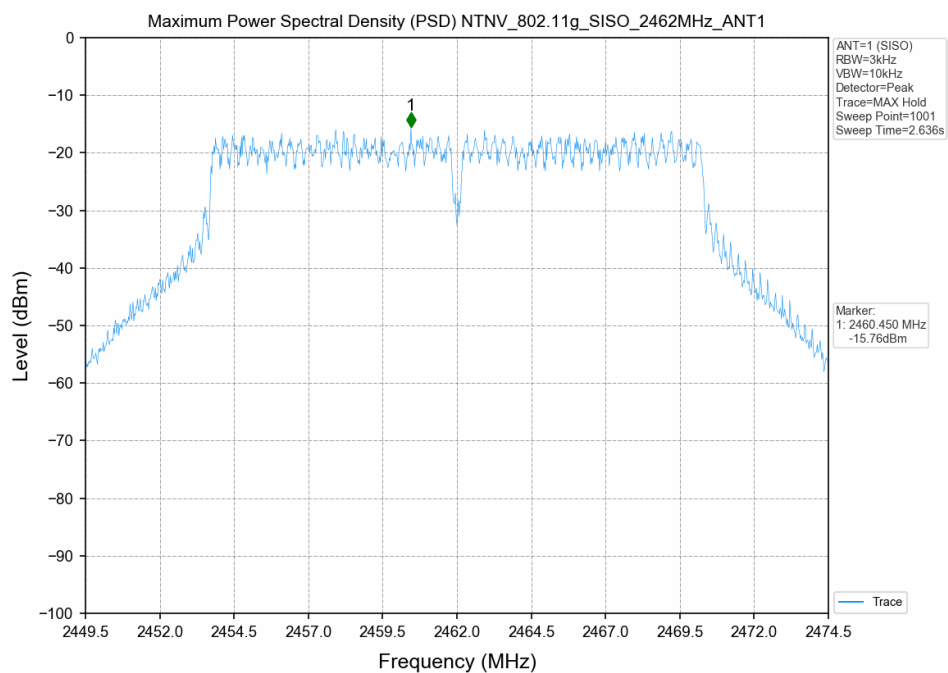
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-8.93	≤8	PASS
	2437	SISO	-9.85	≤8	PASS
	2462	SISO	-8.19	≤8	PASS
802.11g	2412	SISO	-15.03	≤8	PASS
	2437	SISO	-15.00	≤8	PASS
	2462	SISO	-15.76	≤8	PASS
802.11n(HT20)	2412	SISO	-15.99	≤8	PASS
	2437	SISO	-15.29	≤8	PASS
	2462	SISO	-14.81	≤8	PASS
802.11n(HT40)	2422	SISO	-19.97	≤8	PASS
	2437	SISO	-19.31	≤8	PASS
	2452	SISO	-17.73	≤8	PASS

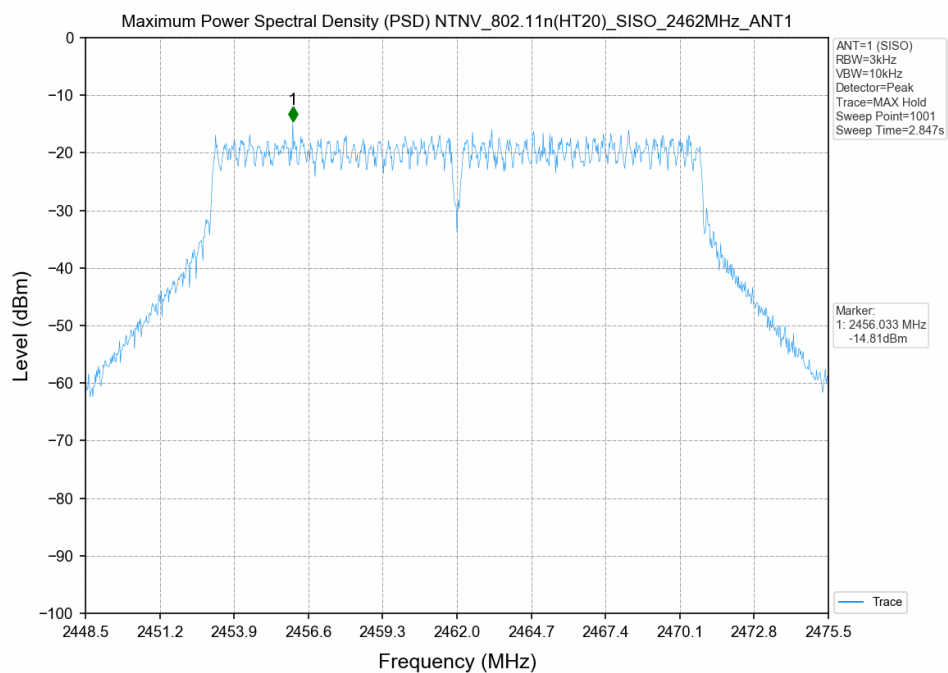
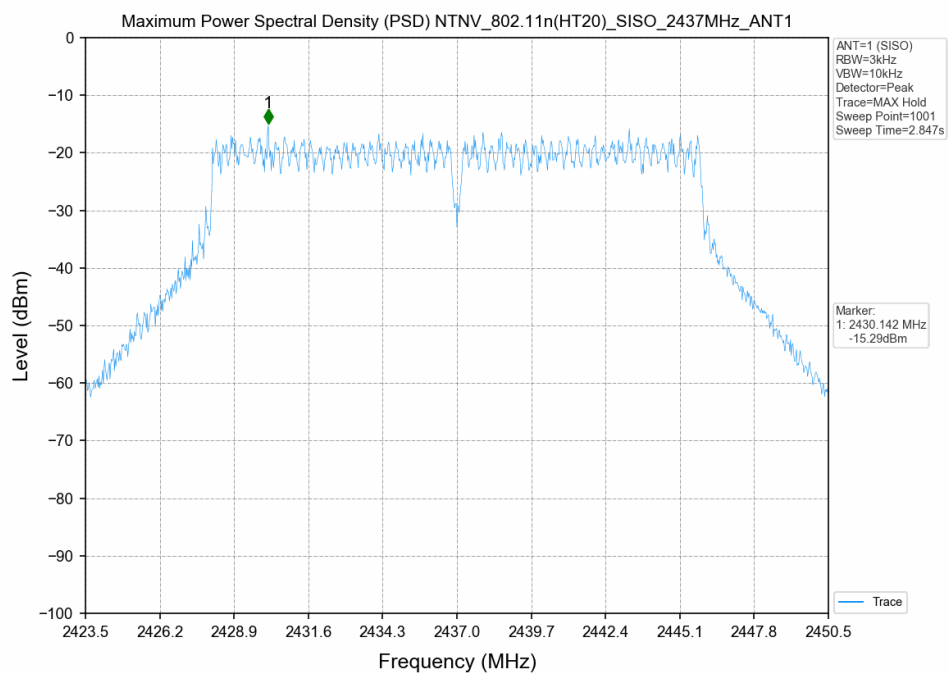
4.2 Test Graph

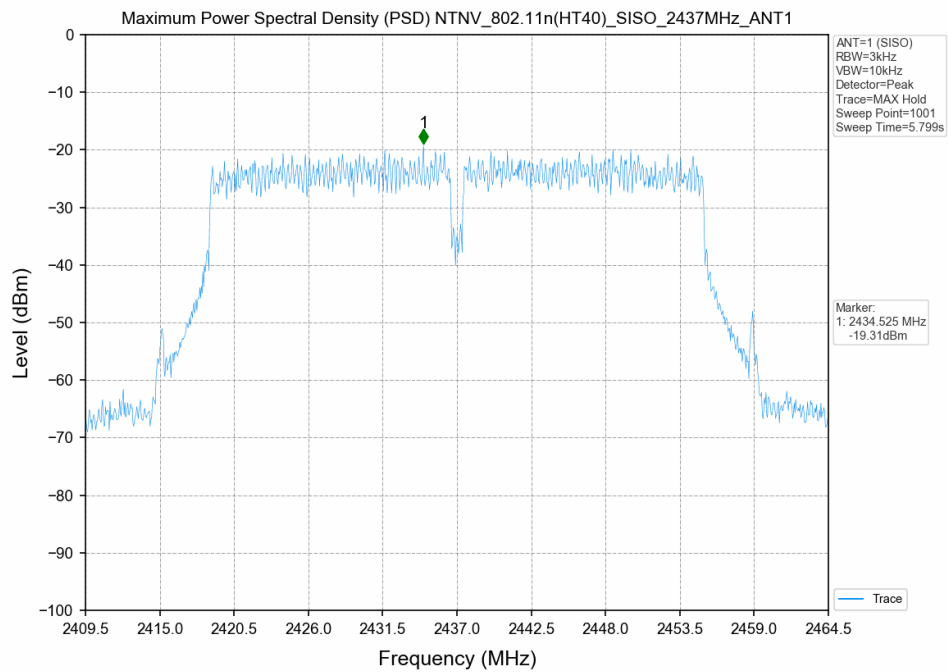
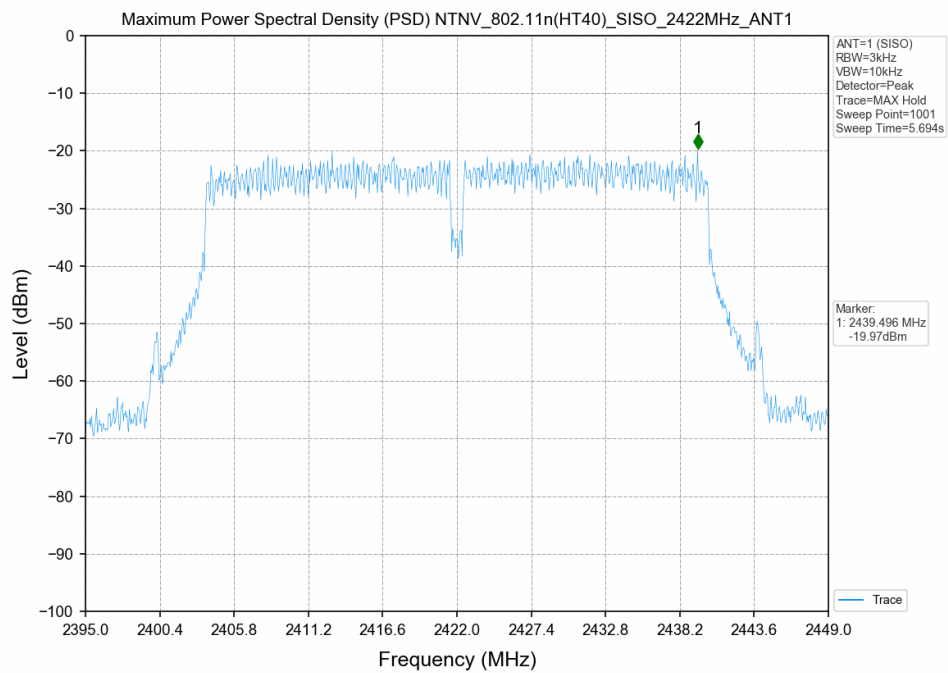


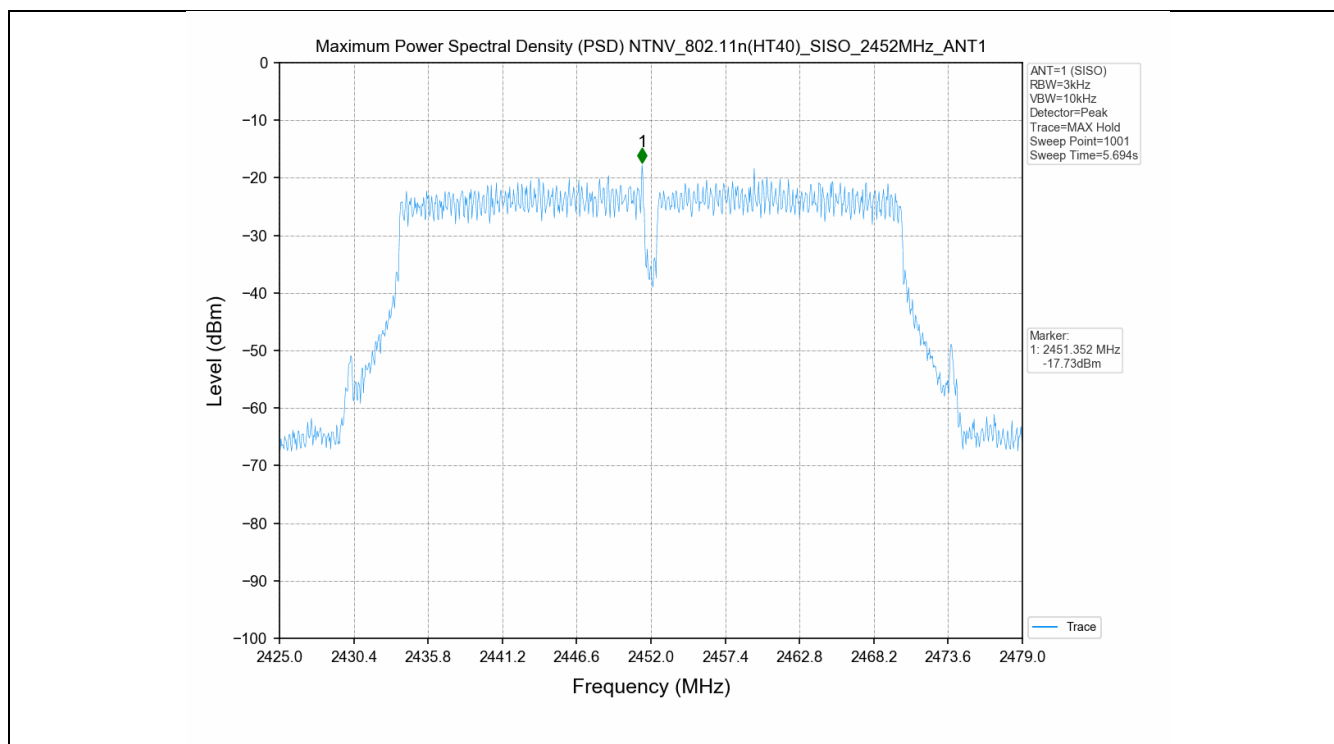












5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 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	-14.23	PASS
	2437	SISO	1	Refer to test graph	-14.23	PASS
	2462	SISO	1	Refer to test graph	-14.23	PASS
802.11g	2412	SISO	1	Refer to test graph	-21.10	PASS
	2437	SISO	1	Refer to test graph	-21.10	PASS
	2462	SISO	1	Refer to test graph	-21.10	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-21.06	PASS
	2437	SISO	1	Refer to test graph	-21.06	PASS
	2462	SISO	1	Refer to test graph	-21.06	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-25.18	PASS
	2437	SISO	1	Refer to test graph	-25.18	PASS
	2452	SISO	1	Refer to test graph	-25.18	PASS

5.2 Test Graph

