

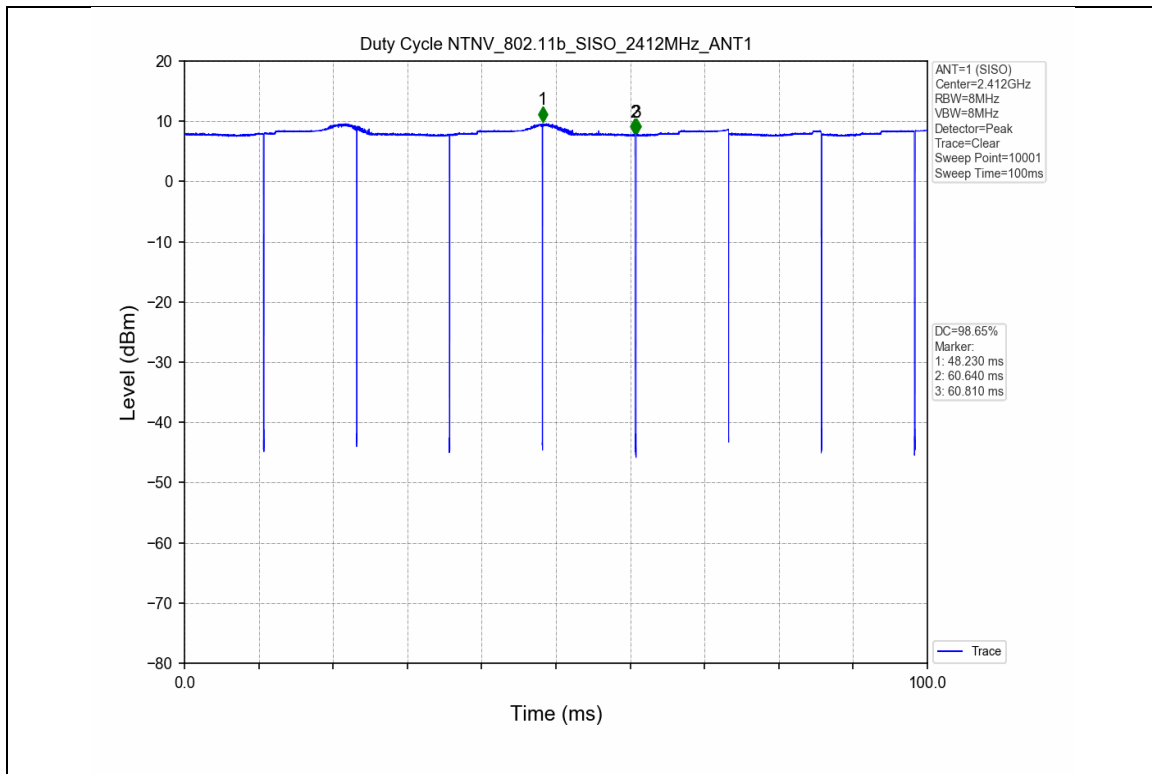
Appendix A for SHEM201201038901

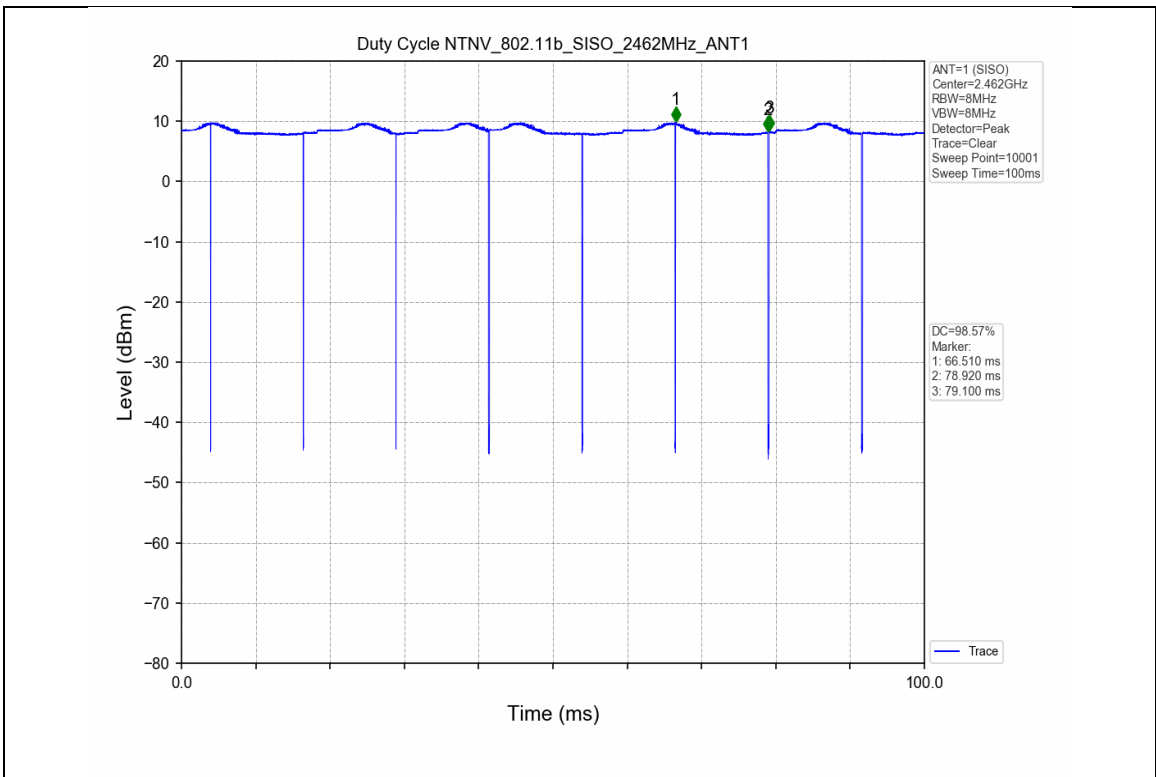
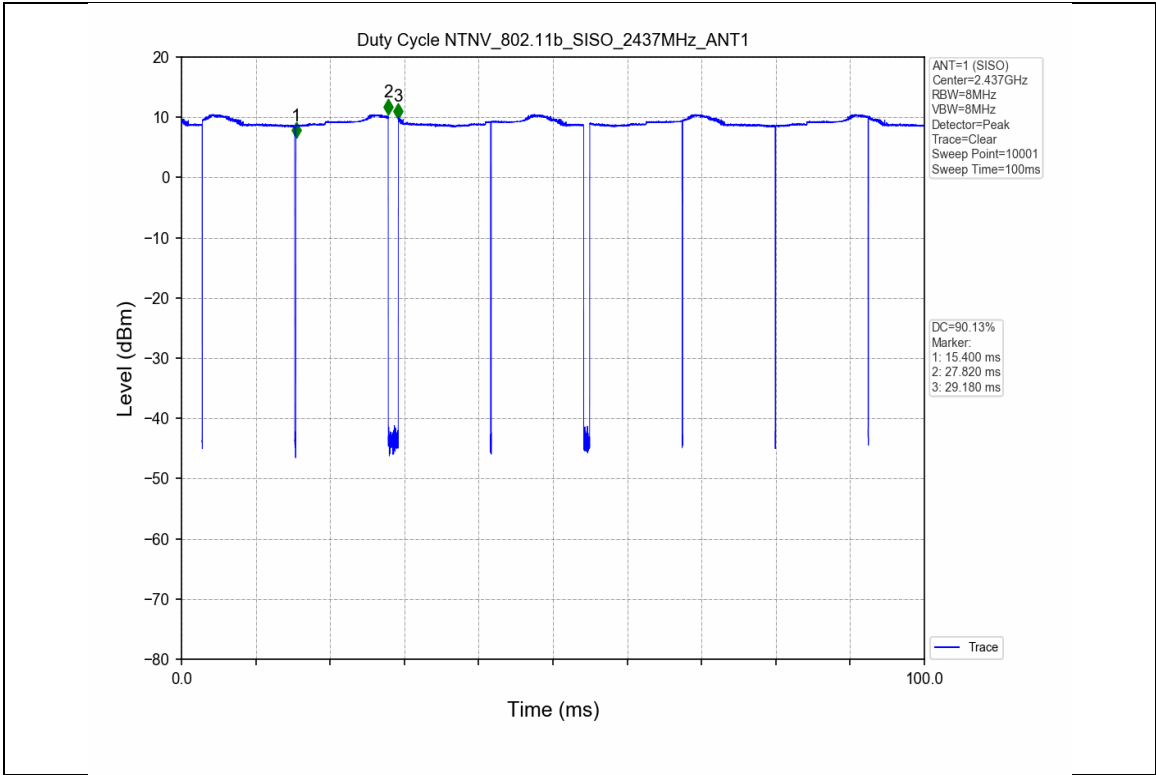
1. Duty Cycle

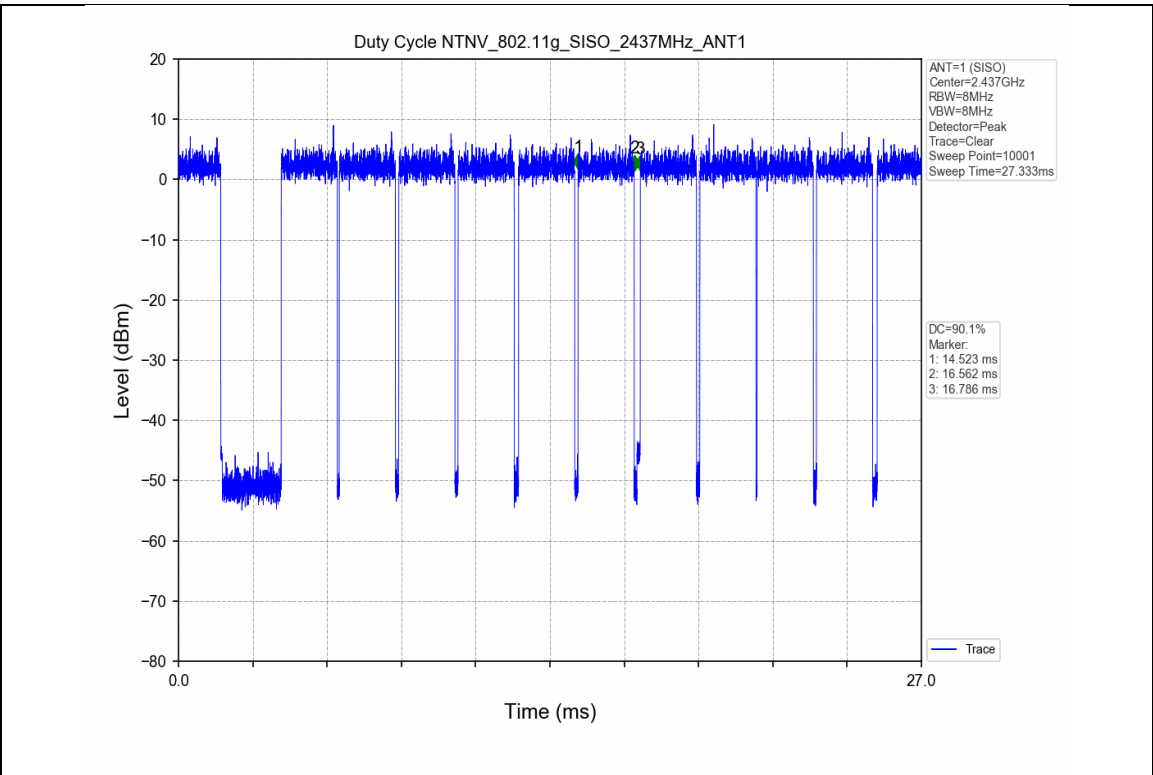
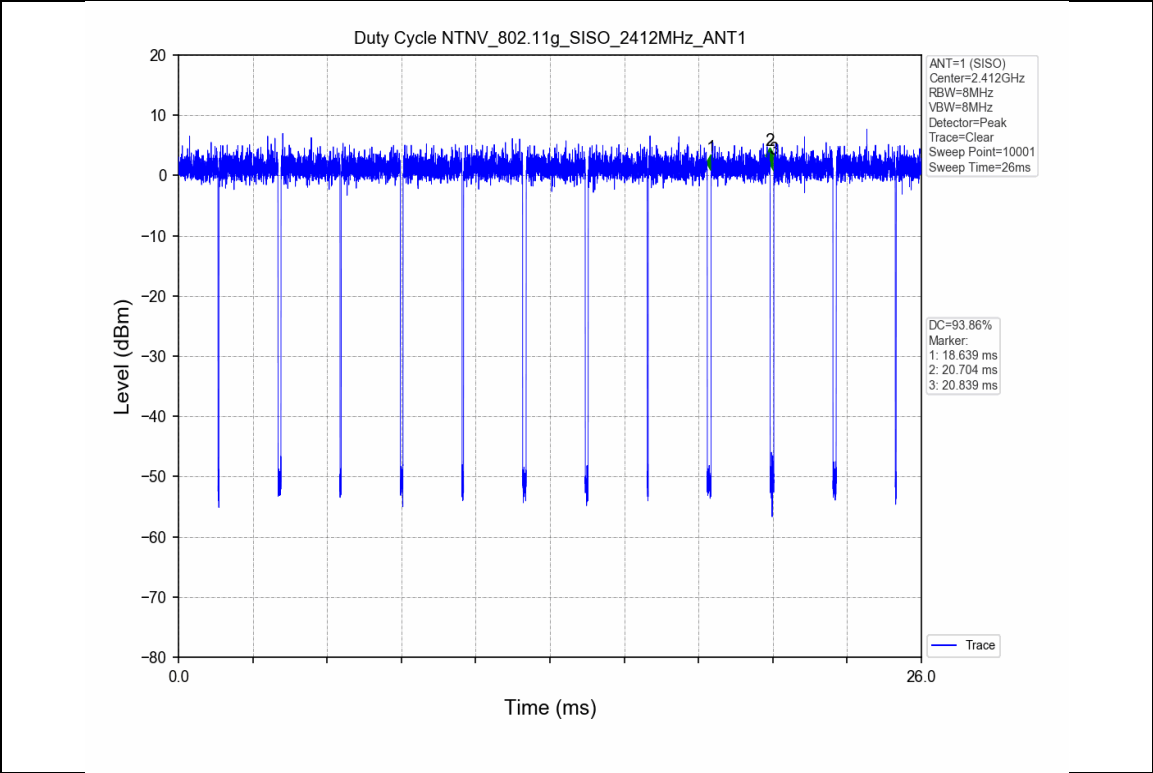
1.1 Test Result

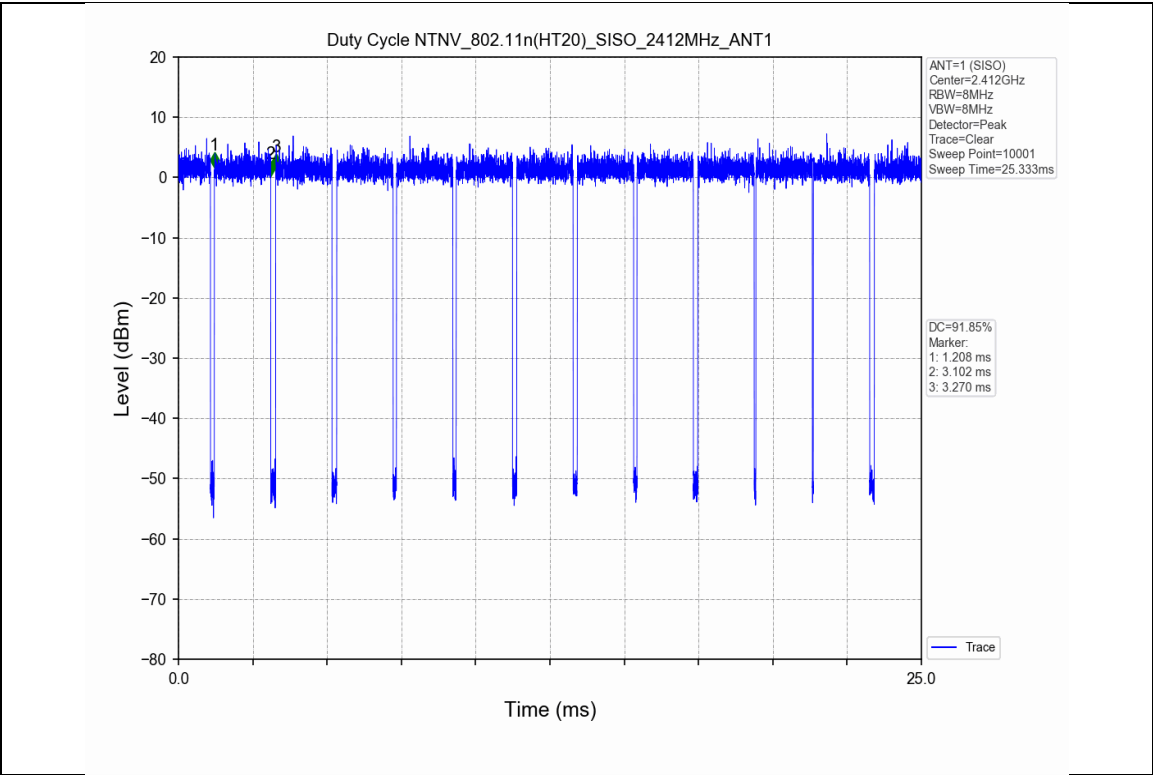
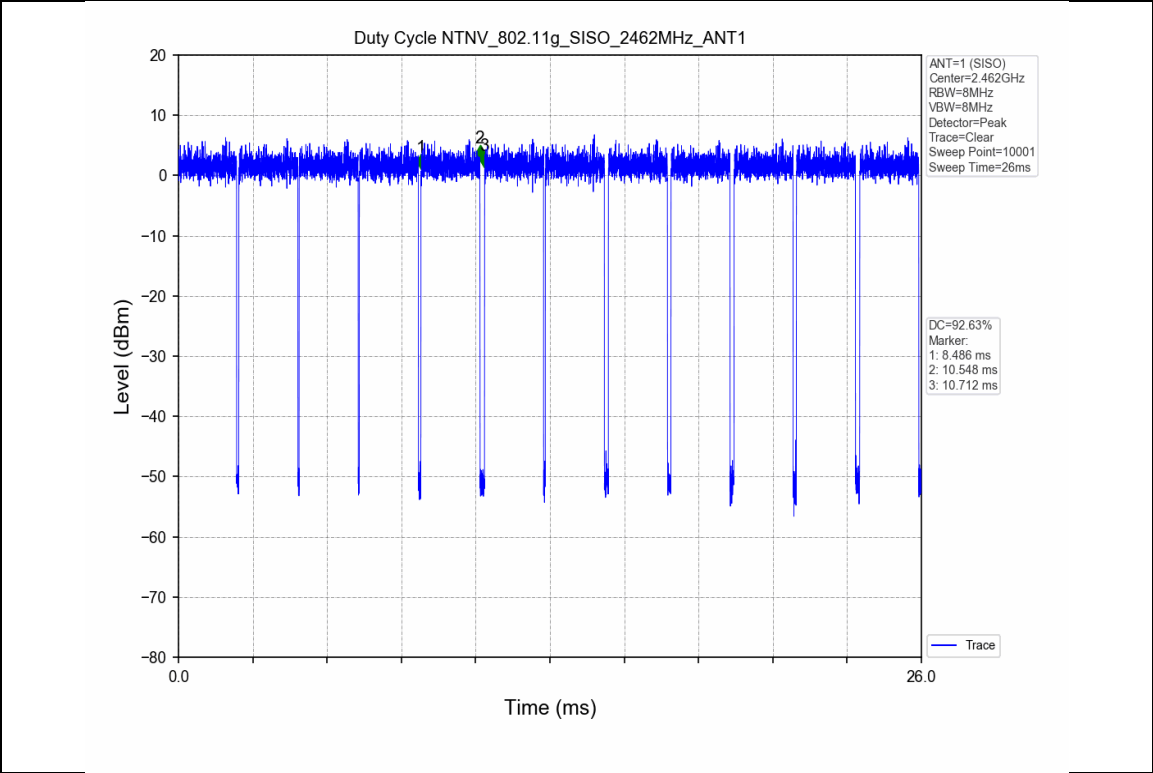
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.410	12.580	98.65	0.06
	2437	SISO	1	12.420	13.780	90.13	0.45
	2462	SISO	1	12.410	12.590	98.57	0.06
802.11g	2412	SISO	1	2.065	2.200	93.86	0.28
	2437	SISO	1	2.039	2.263	90.10	0.45
	2462	SISO	1	2.062	2.226	92.63	0.33
802.11n(HT20)	2412	SISO	1	1.894	2.062	91.85	0.37
	2437	SISO	1	1.894	2.044	92.66	0.33
	2462	SISO	1	1.921	2.064	93.07	0.31
802.11n(HT40)	2422	SISO	1	0.945	1.195	79.08	1.02
	2437	SISO	1	0.916	1.083	84.58	0.73
	2452	SISO	1	0.921	1.061	86.80	0.61

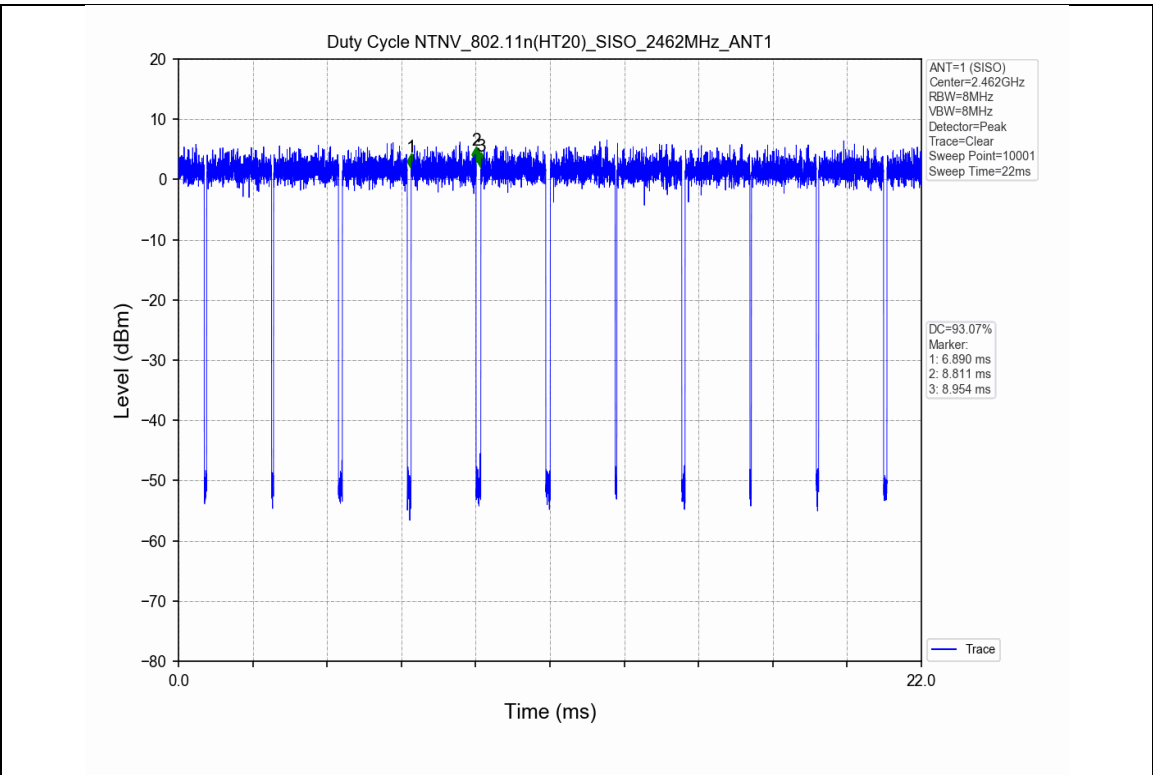
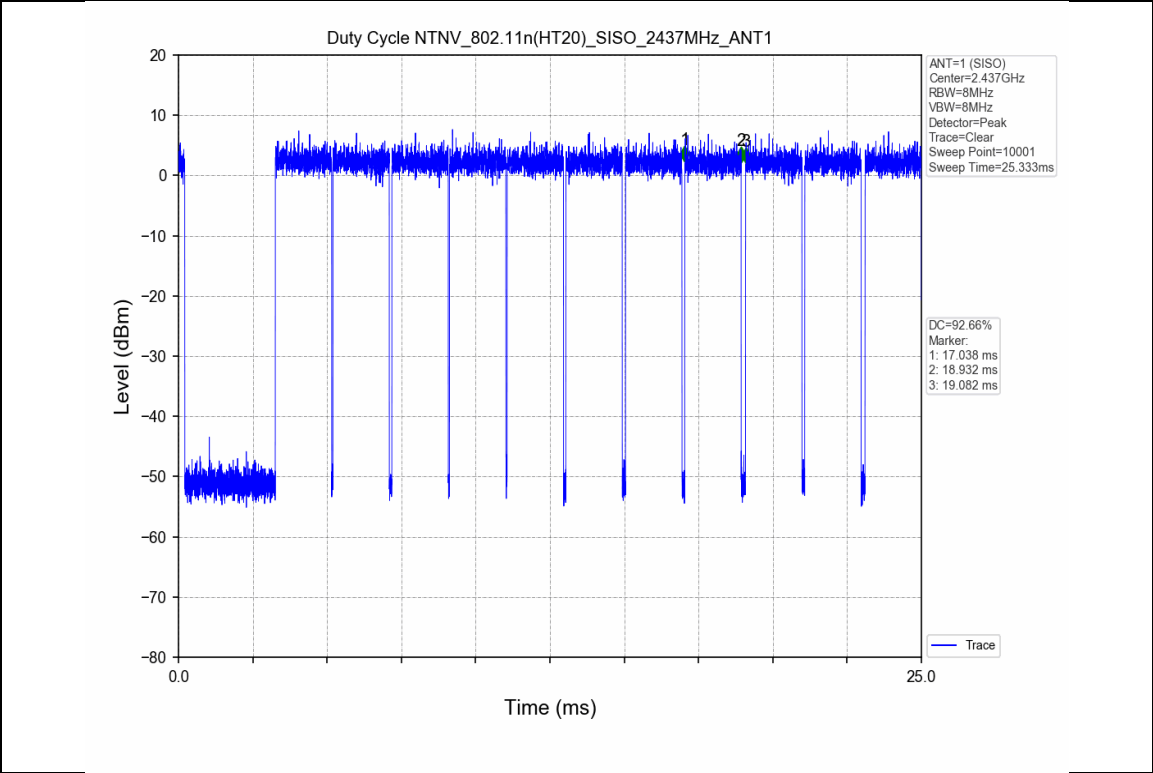
1.2 Test Graph

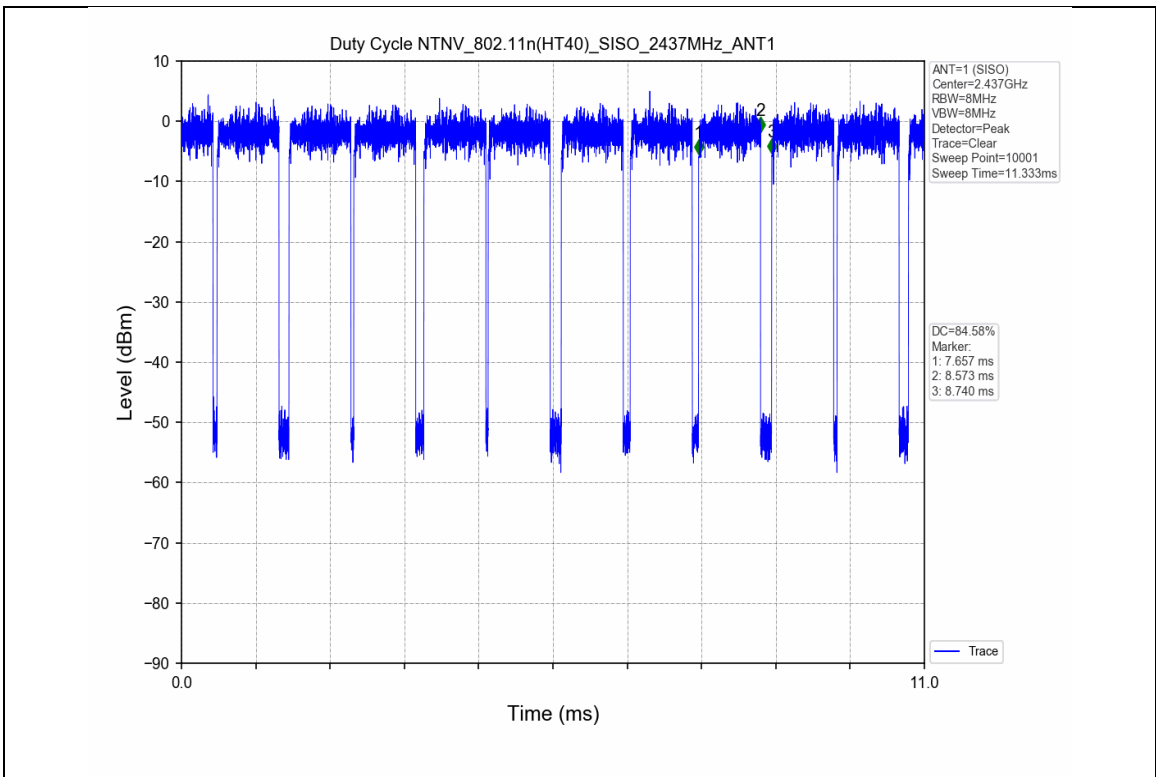
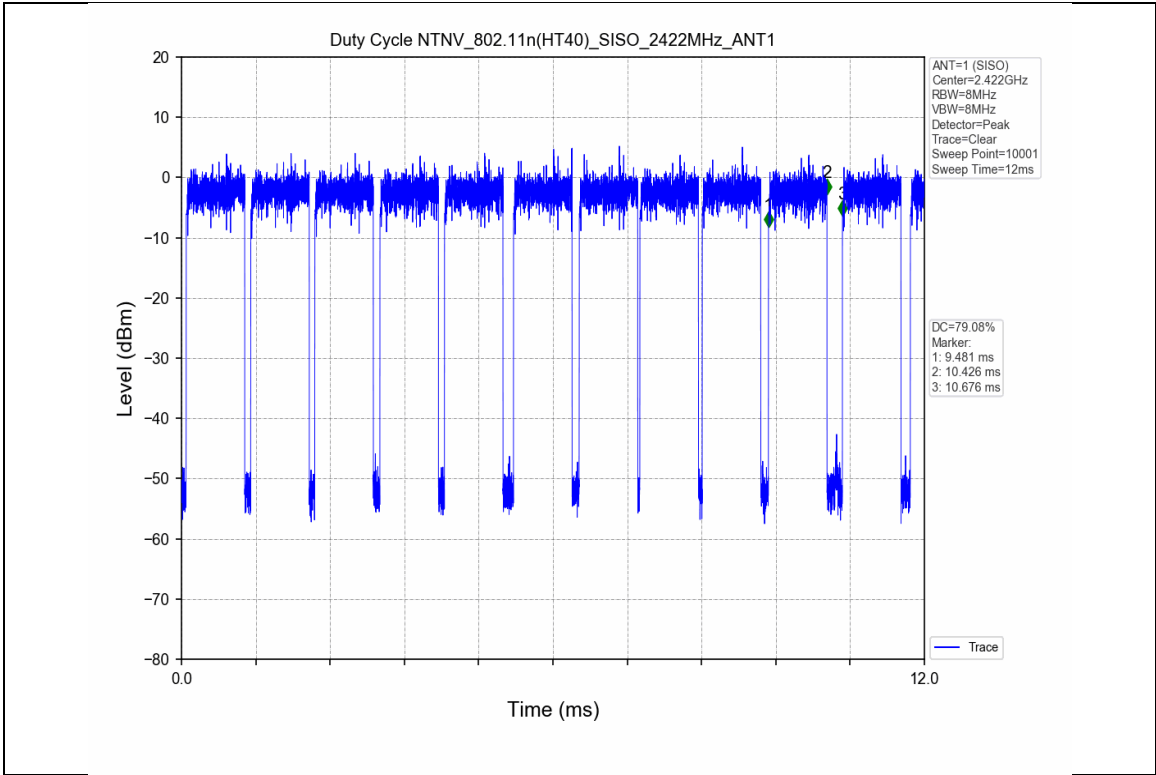


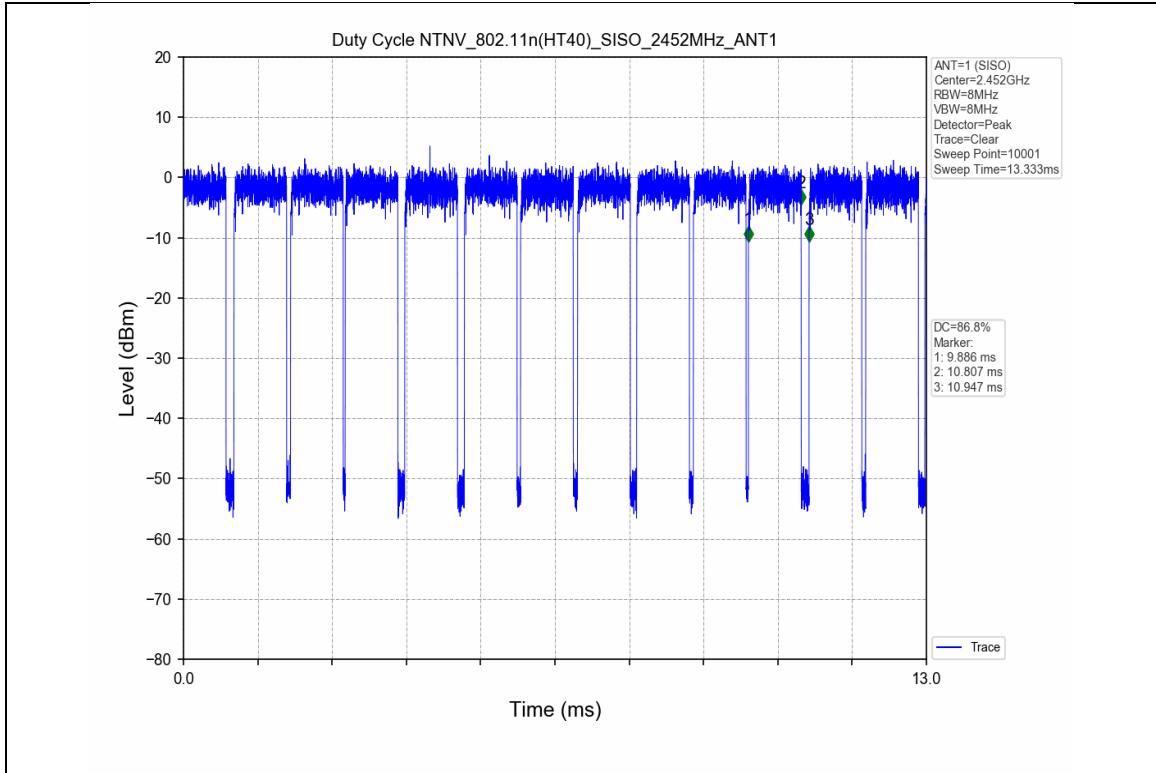












2. Bandwidth

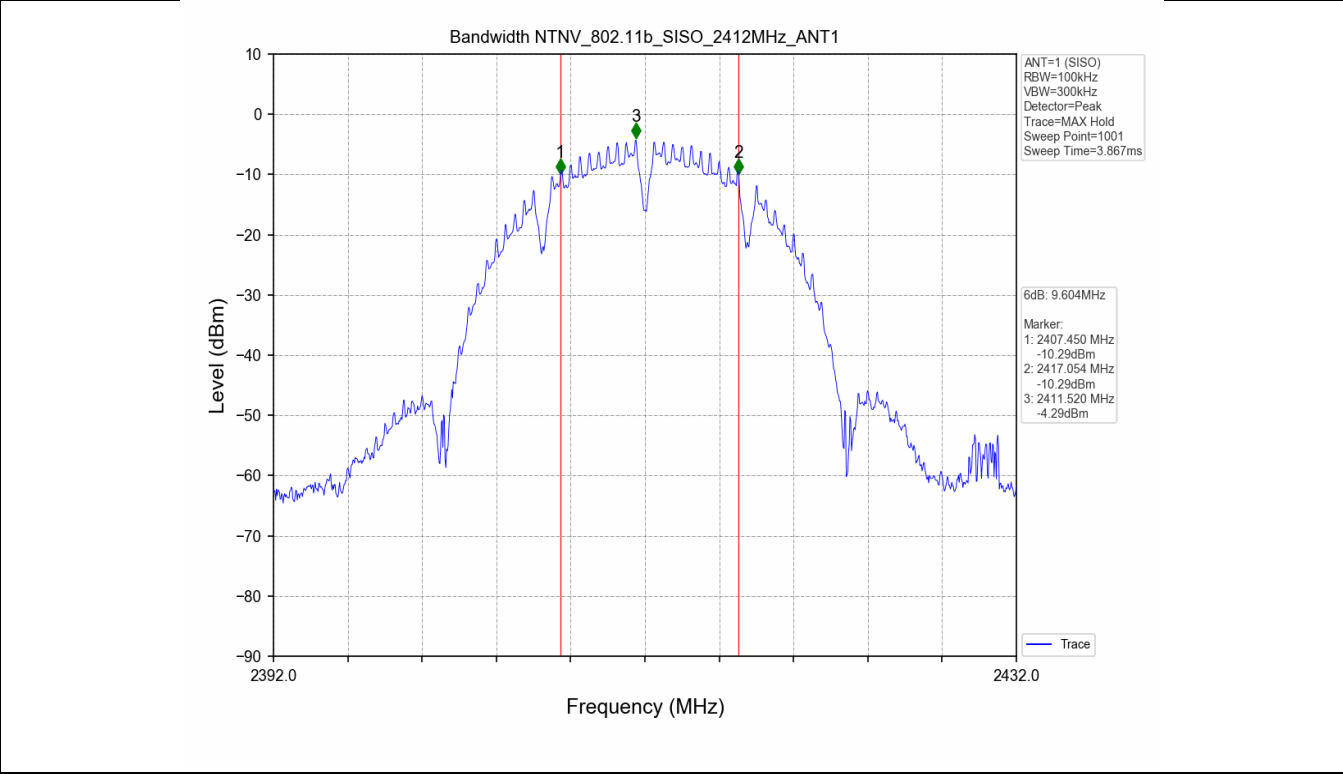
2.1 Test Result

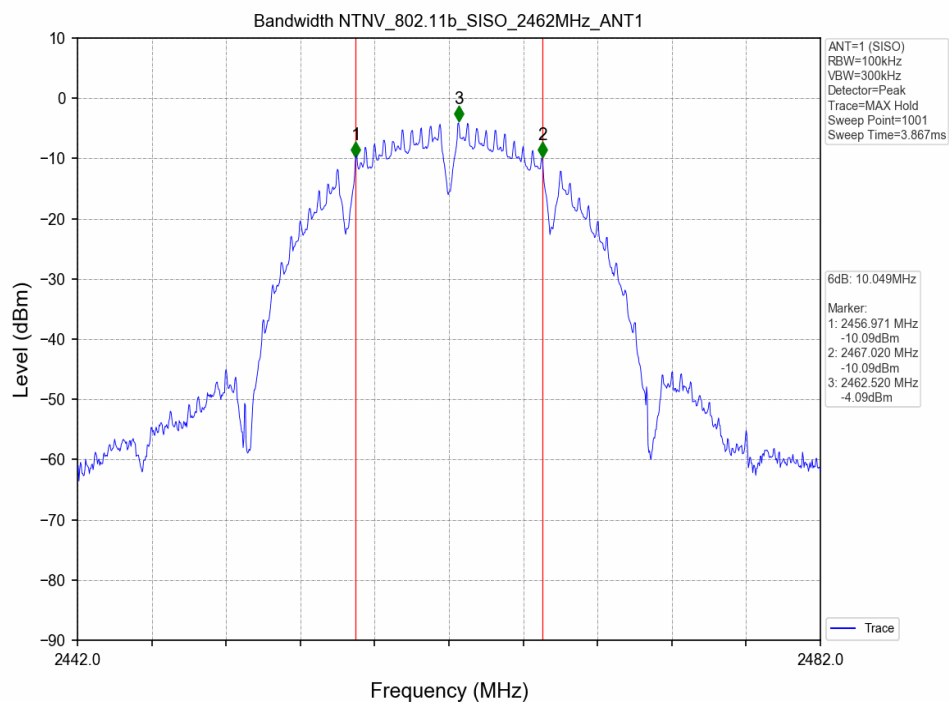
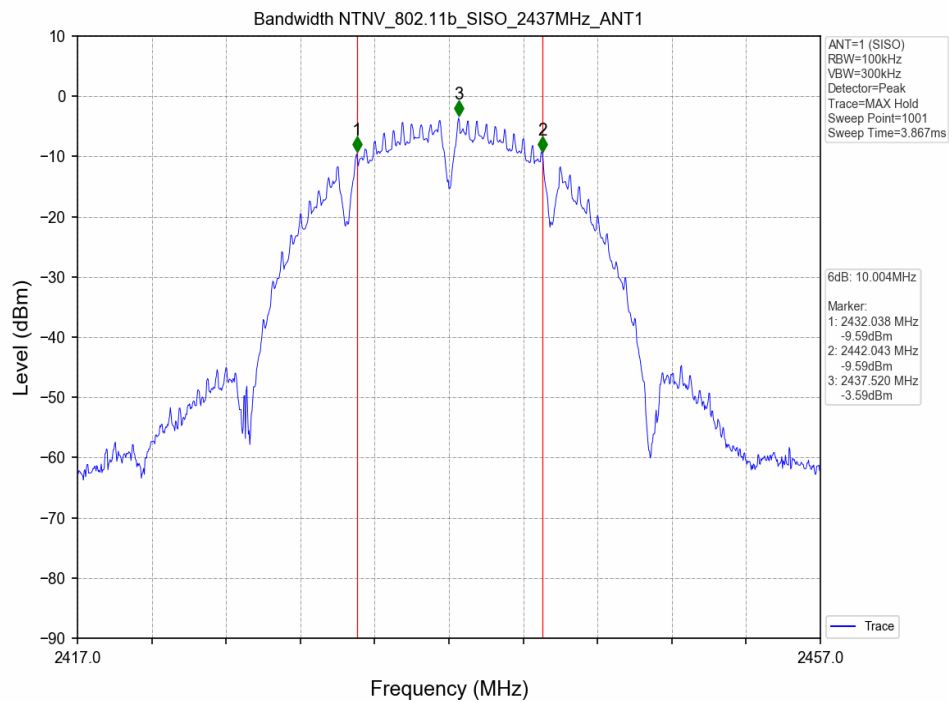
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	9.604	≥ 0.5	PASS
	2437	SISO	1	10.004	≥ 0.5	PASS
	2462	SISO	1	10.049	≥ 0.5	PASS
802.11g	2412	SISO	1	16.360	≥ 0.5	PASS
	2437	SISO	1	16.368	≥ 0.5	PASS
	2462	SISO	1	16.366	≥ 0.5	PASS
802.11n(HT20)	2412	SISO	1	17.349	≥ 0.5	PASS
	2437	SISO	1	17.333	≥ 0.5	PASS
	2462	SISO	1	17.580	≥ 0.5	PASS
802.11n(HT40)	2422	SISO	1	35.219	≥ 0.5	PASS
	2437	SISO	1	35.210	≥ 0.5	PASS
	2452	SISO	1	35.191	≥ 0.5	PASS

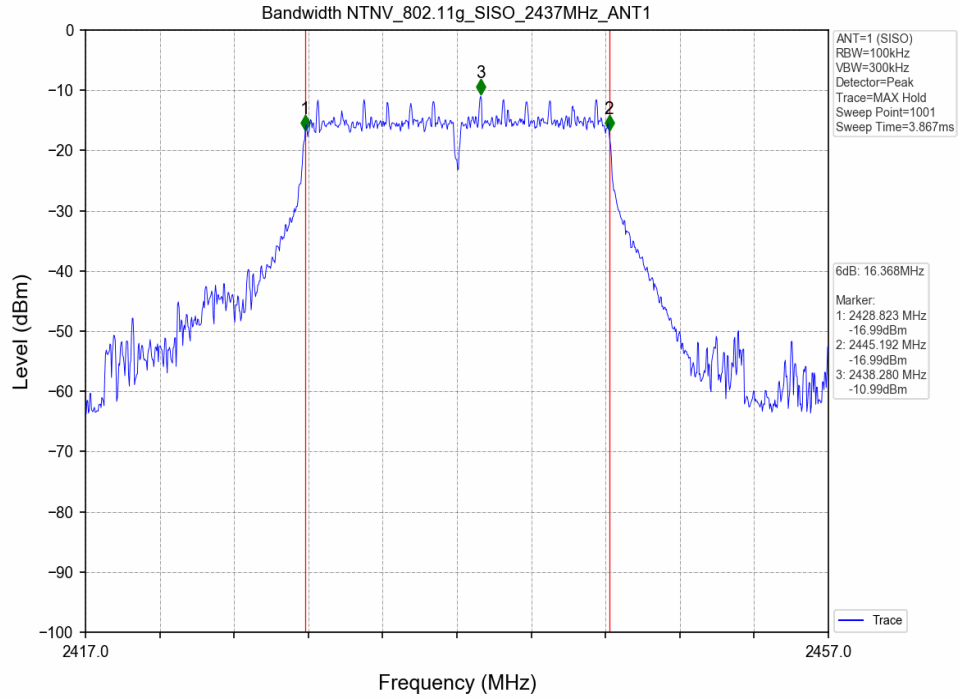
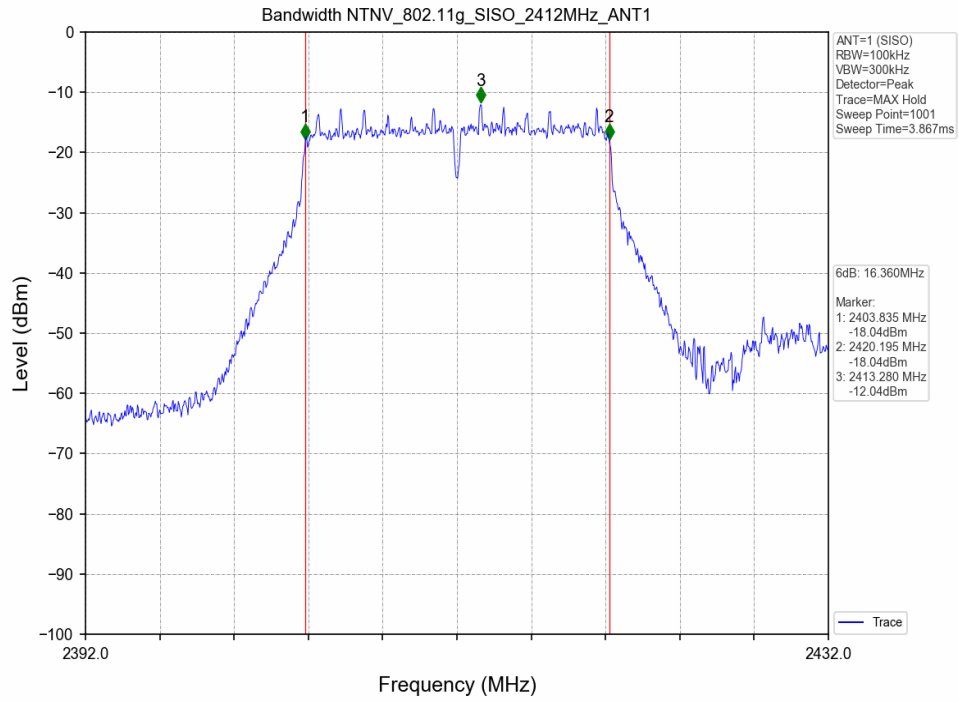
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	14.886	Only for Report Use
	2437	SISO	1	14.887	Only for Report Use
	2462	SISO	1	14.952	Only for Report Use
802.11g	2412	SISO	1	16.969	Only for Report Use
	2437	SISO	1	16.887	Only for Report Use
	2462	SISO	1	16.865	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.818	Only for Report Use

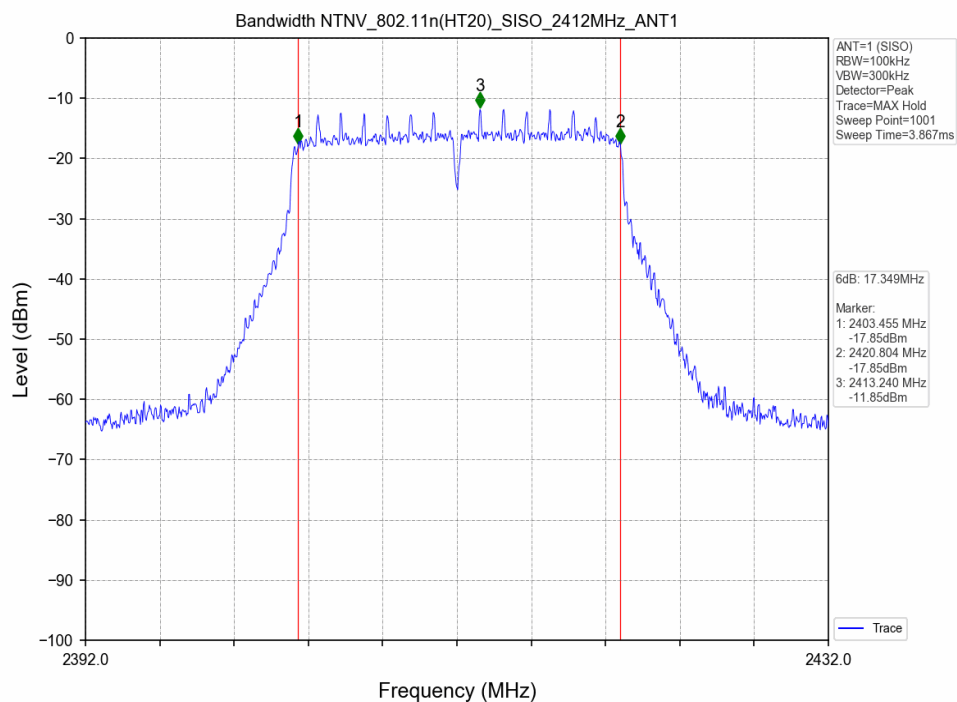
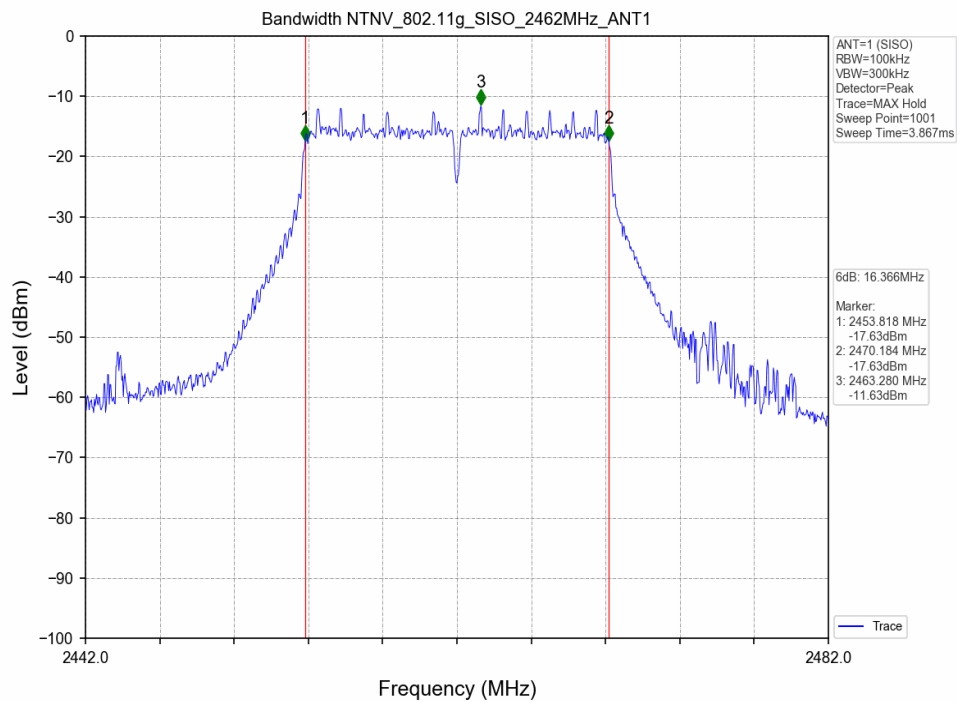
802.11n(HT40)	2437	SISO	1	17.795	Only for Report Use
	2462	SISO	1	17.888	Only for Report Use
	2422	SISO	1	36.025	Only for Report Use
	2437	SISO	1	36.061	Only for Report Use
	2452	SISO	1	36.254	Only for Report Use

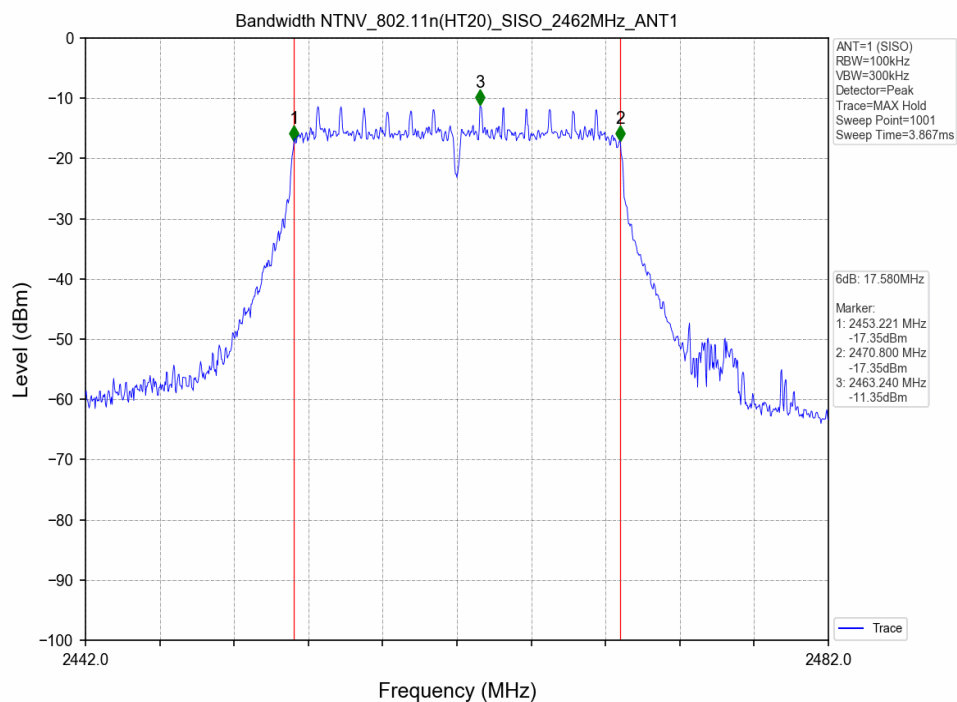
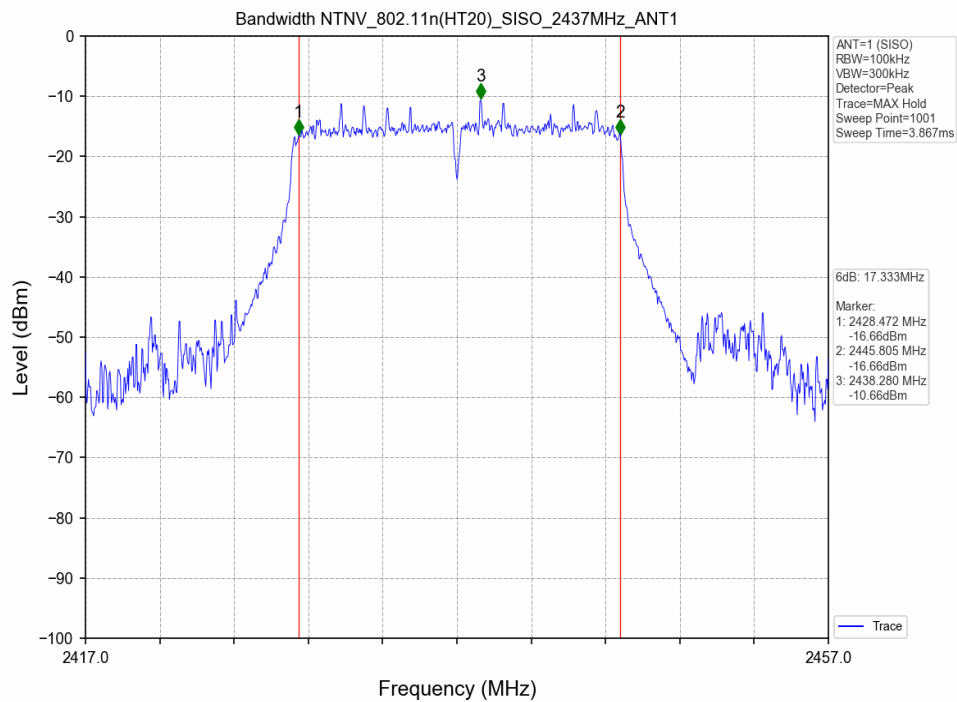
2.2 Test Graph - 6dB Bandwidth

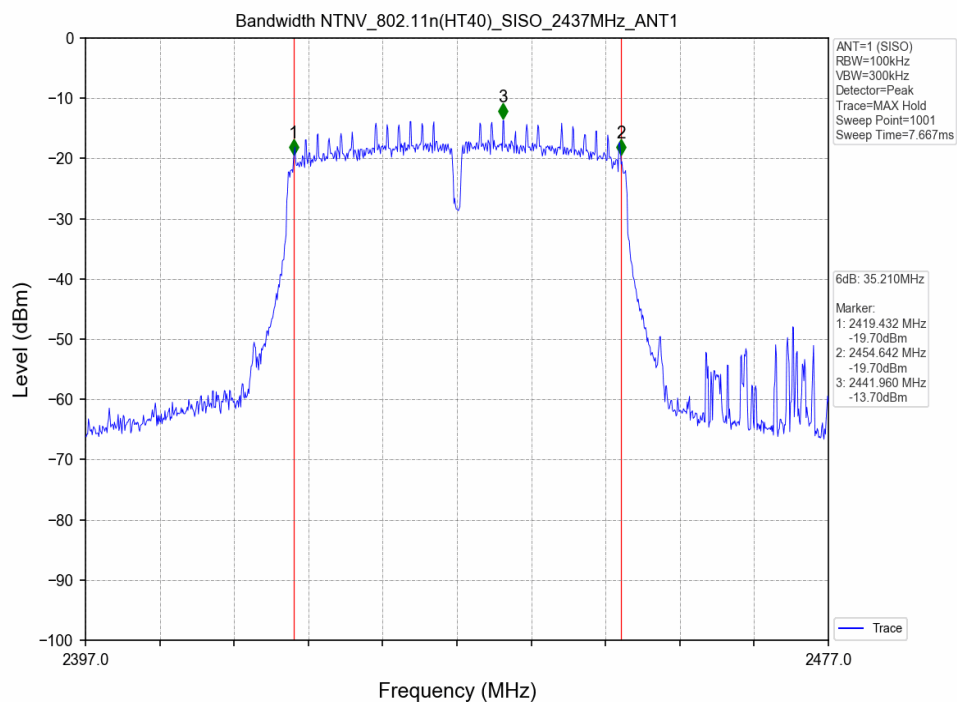
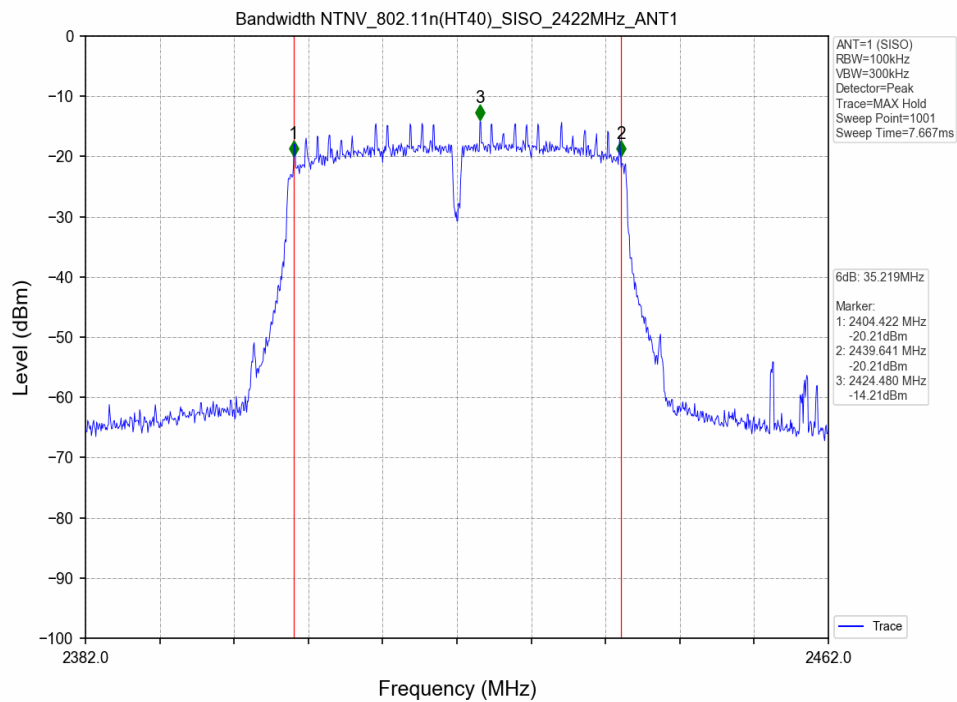


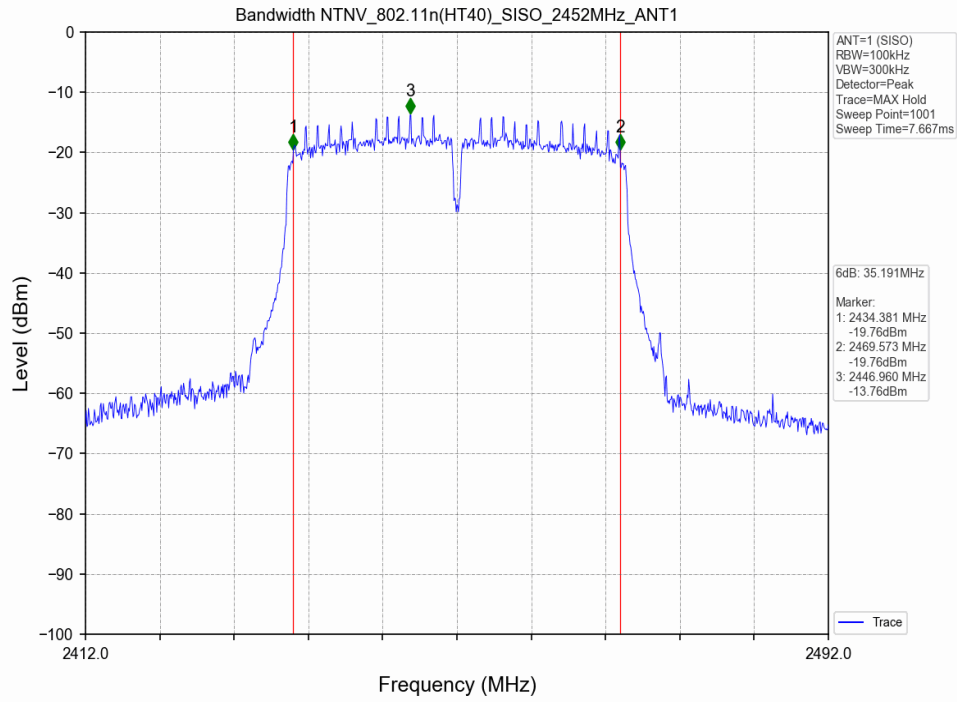




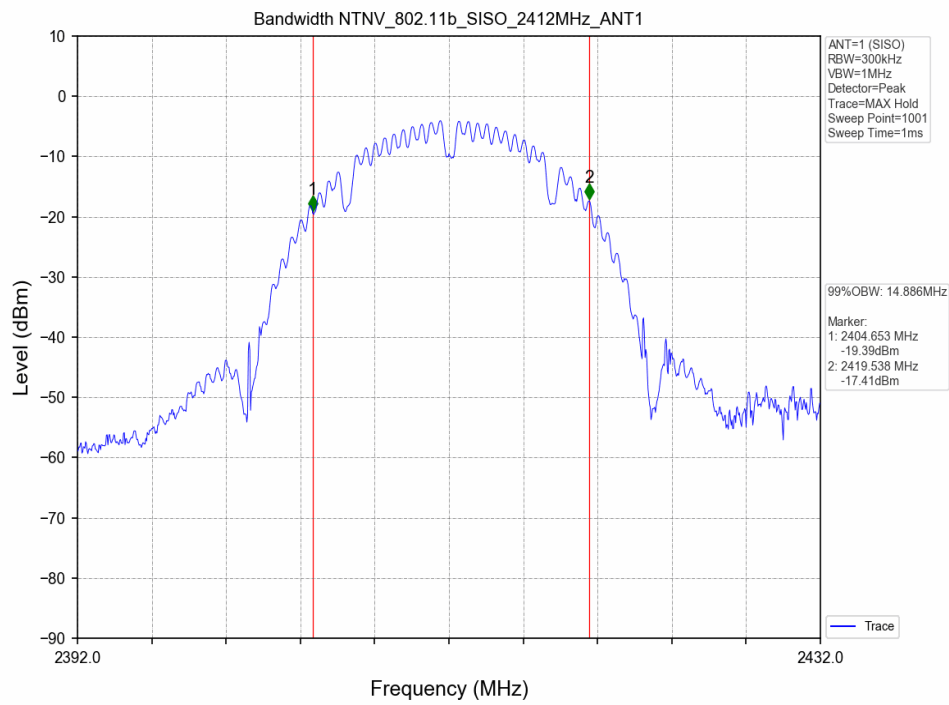


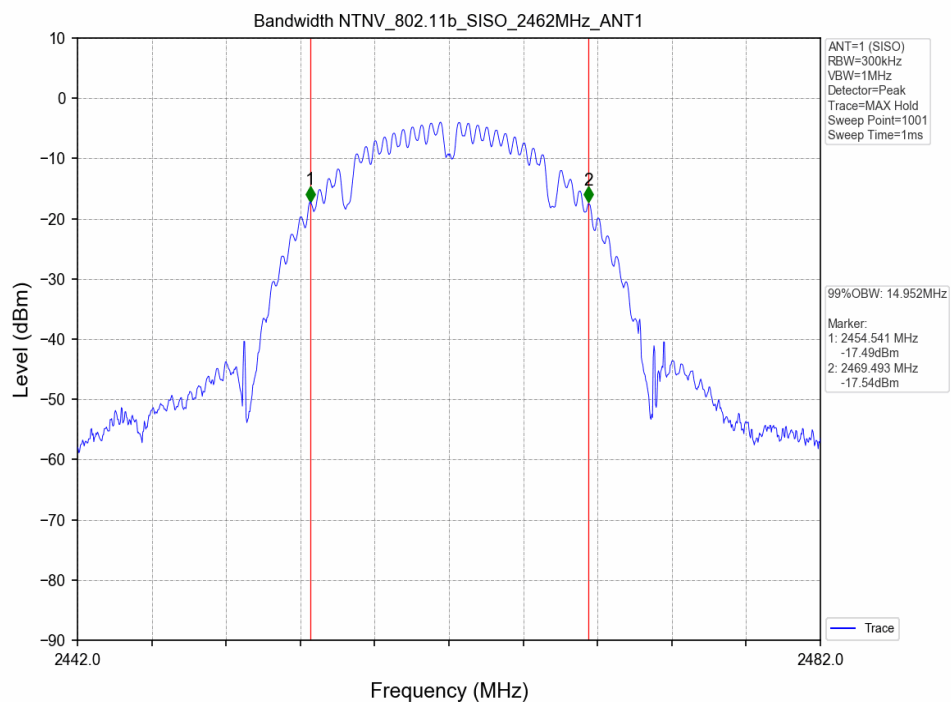
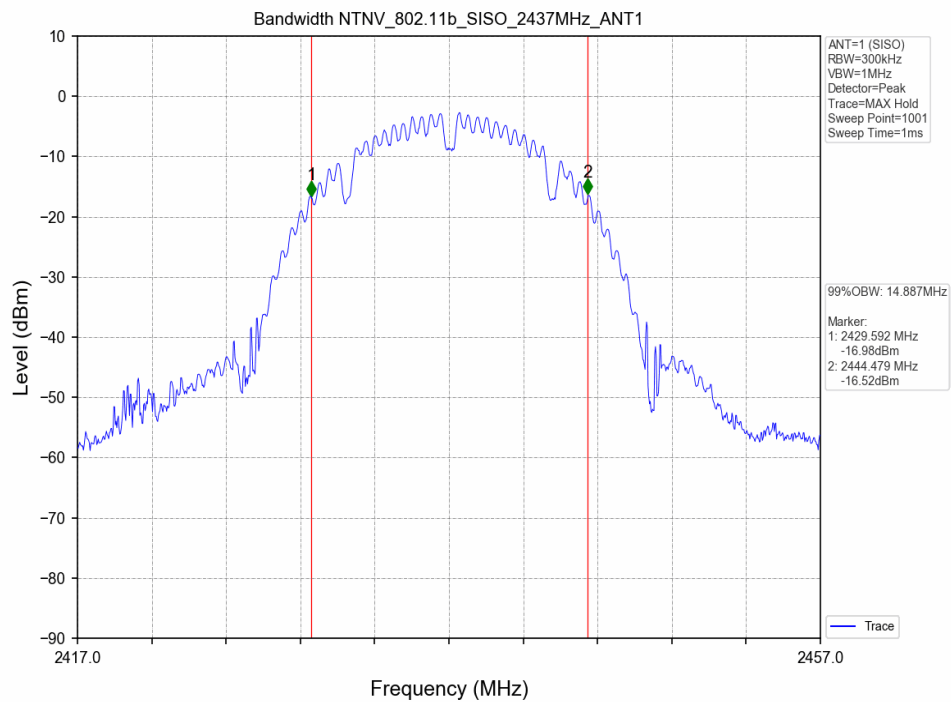


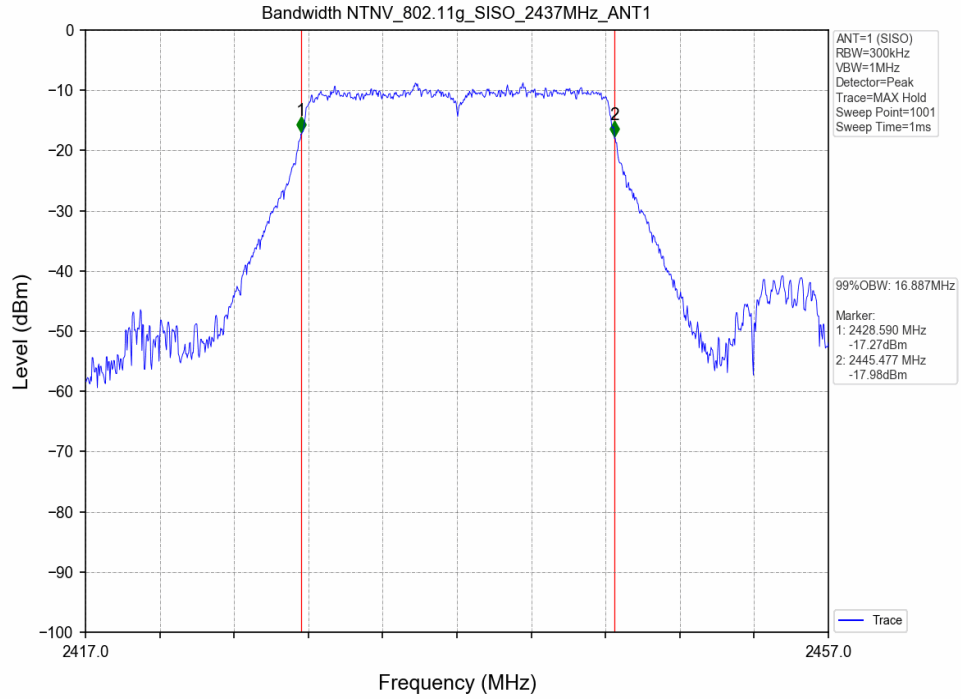
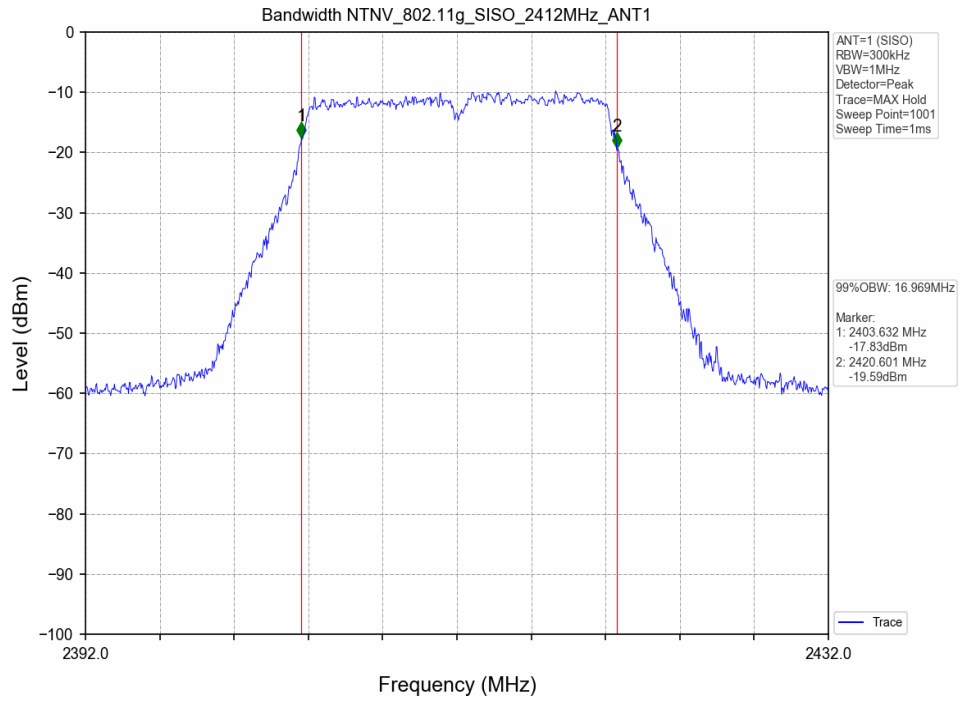


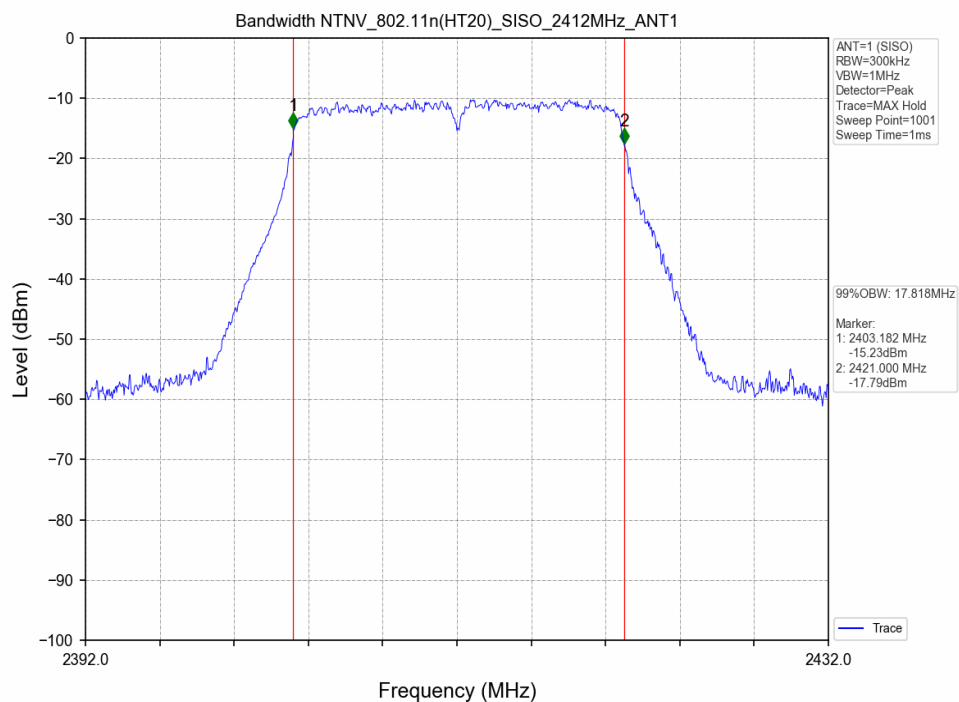
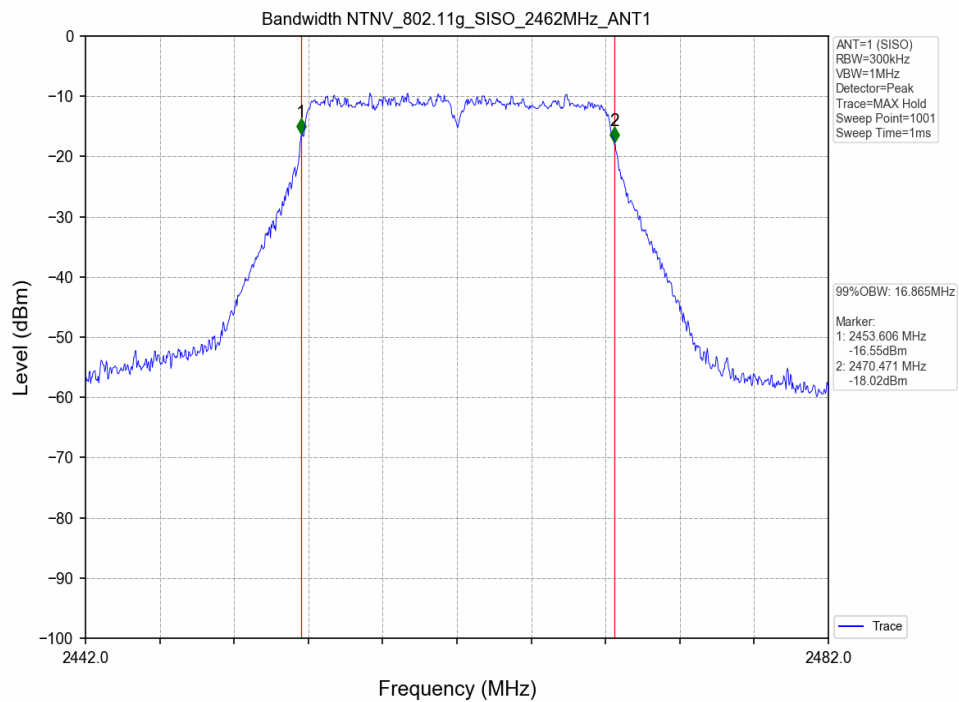


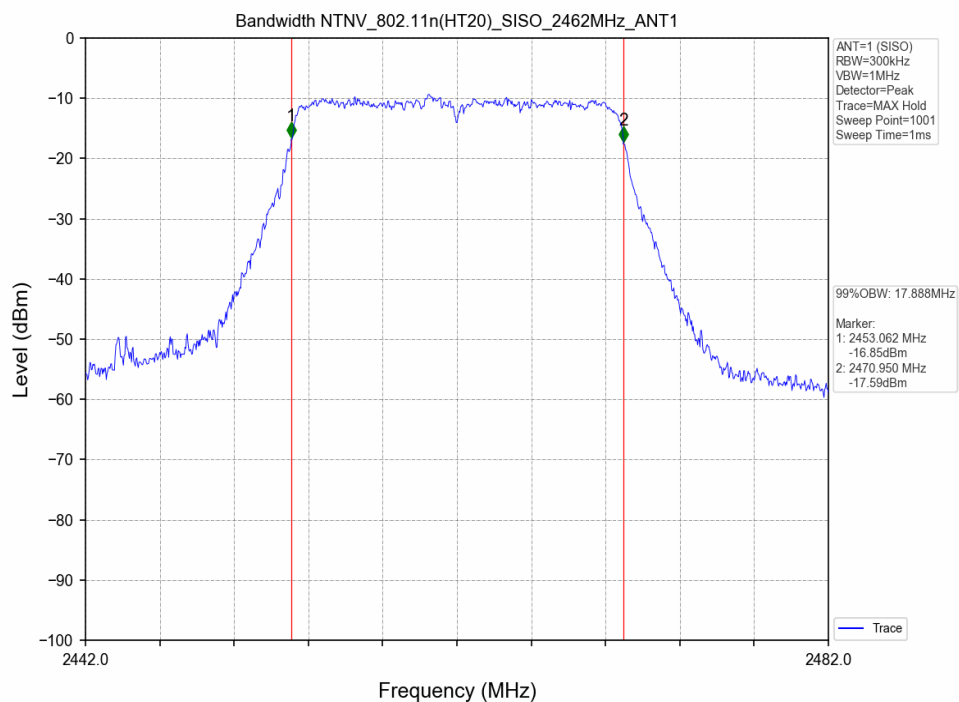
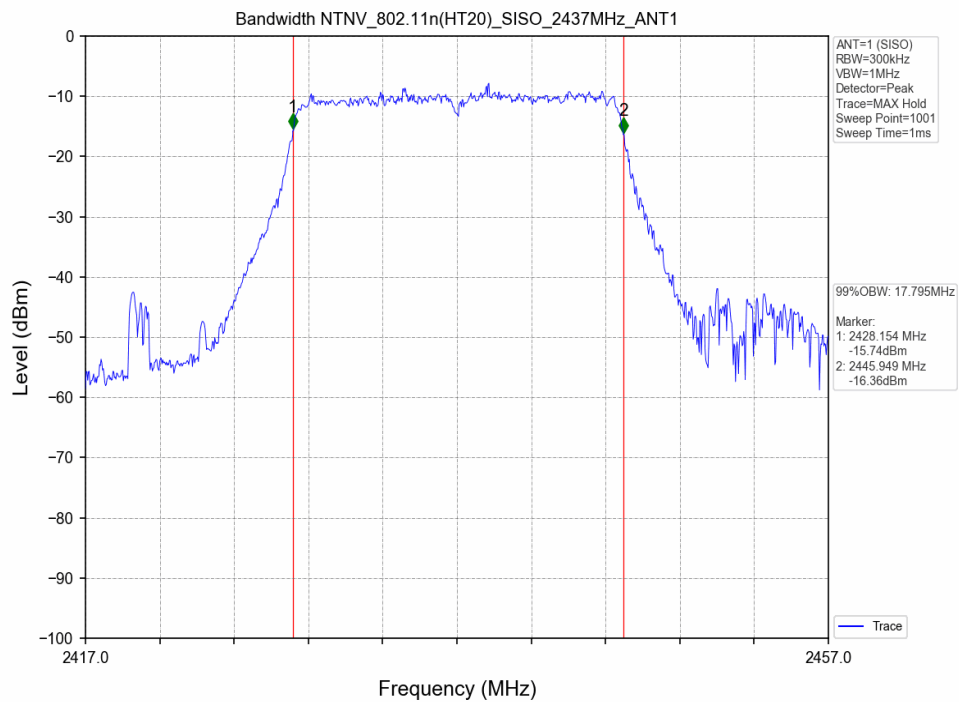
2.3 Test Graph - 99% Occupied Bandwidth

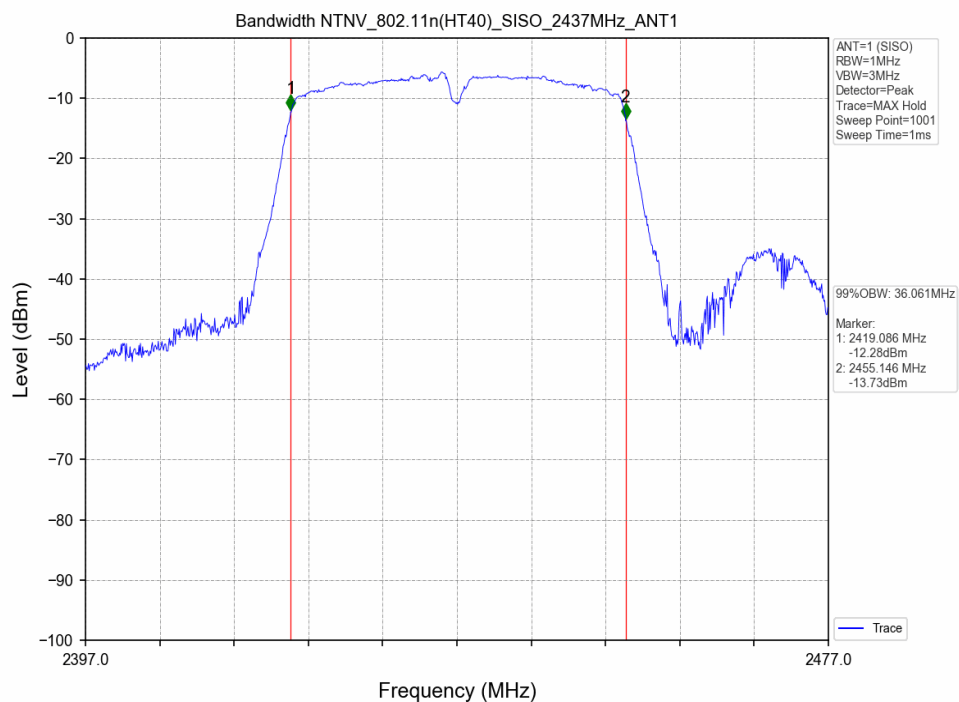
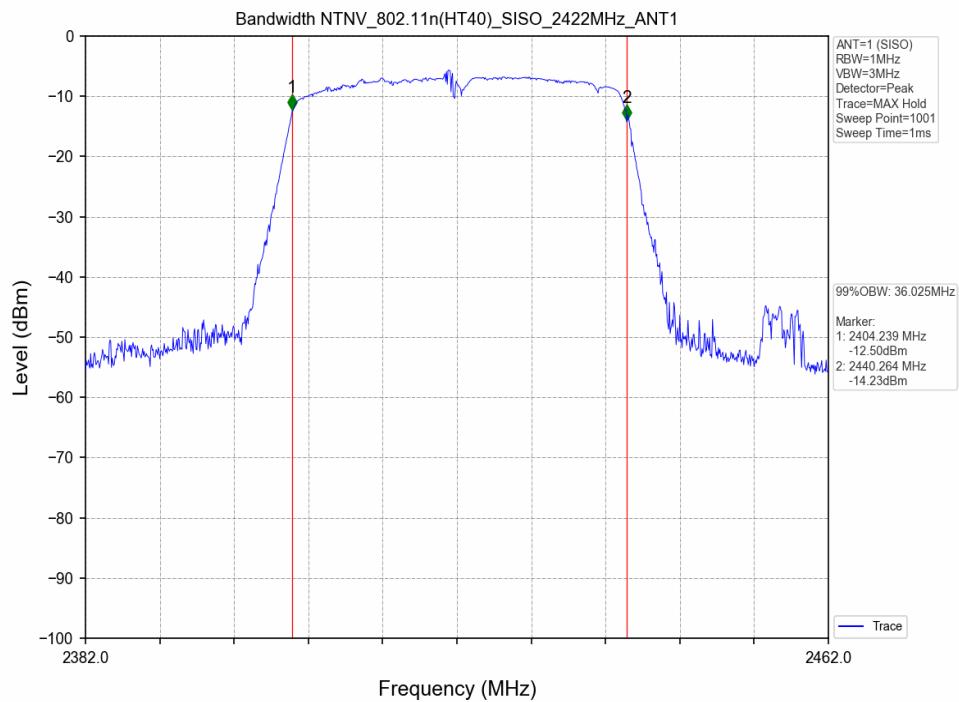


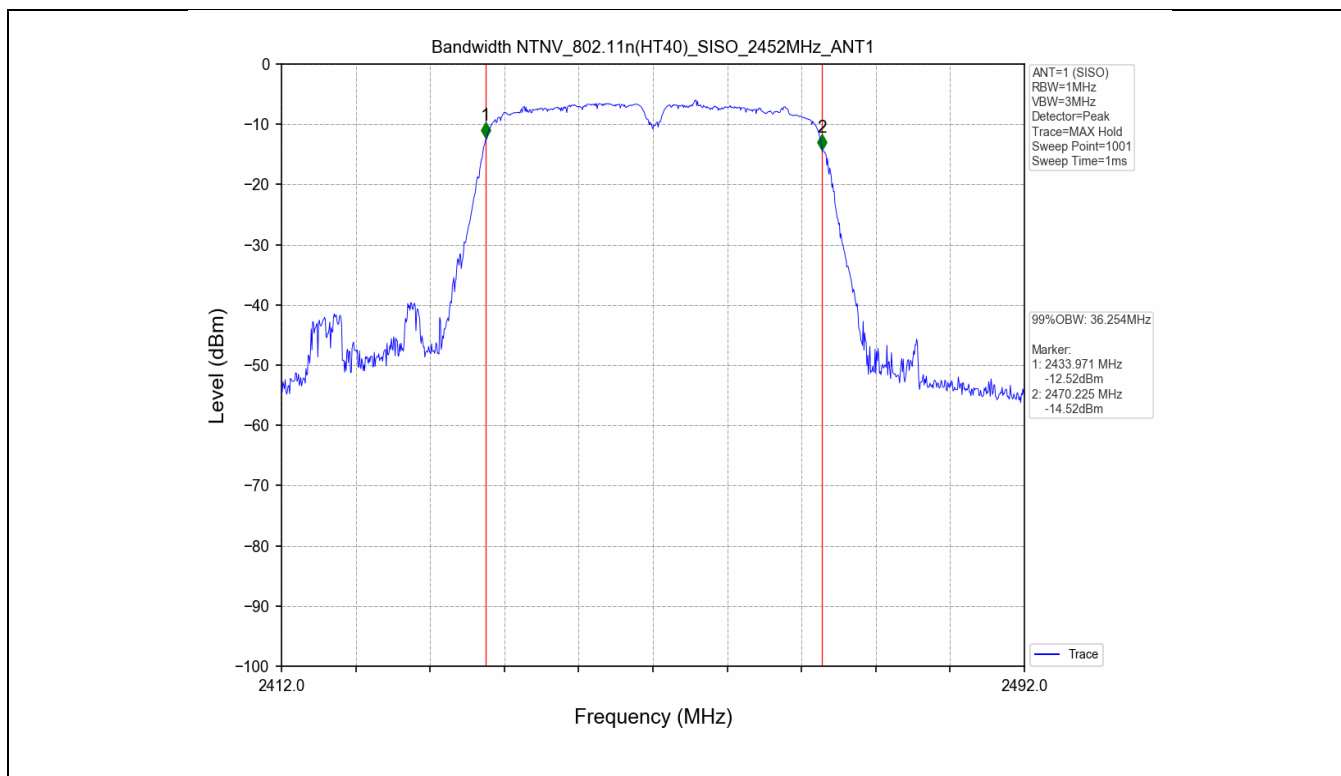










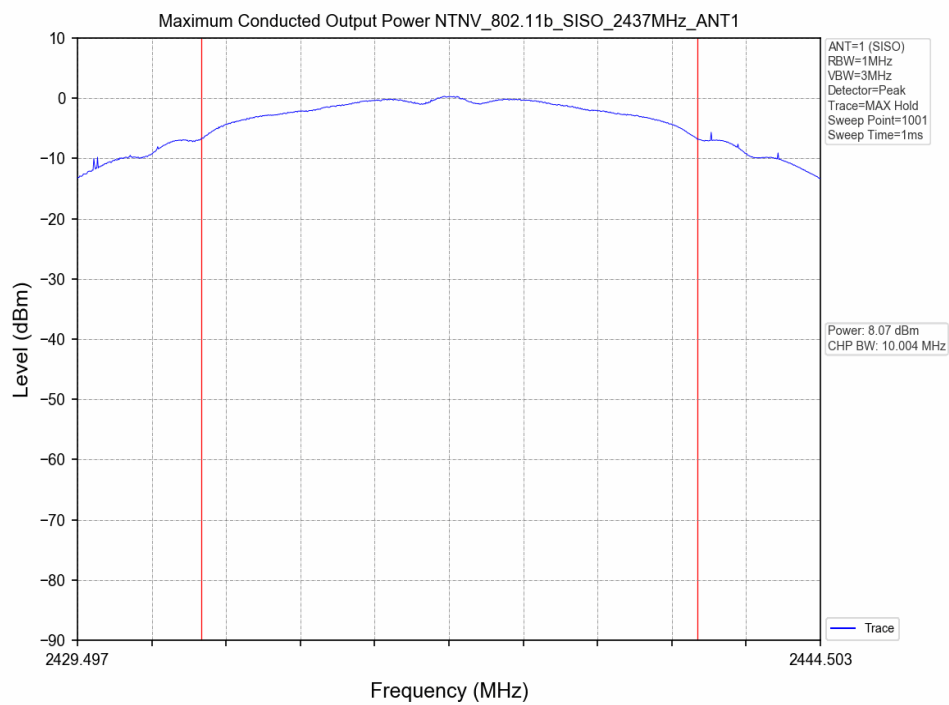
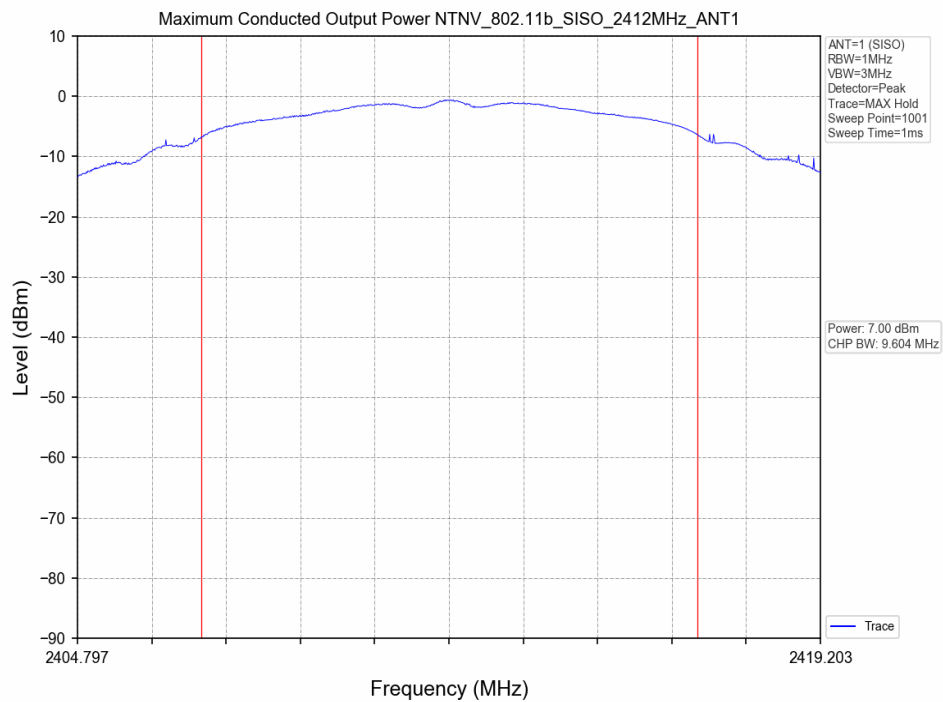


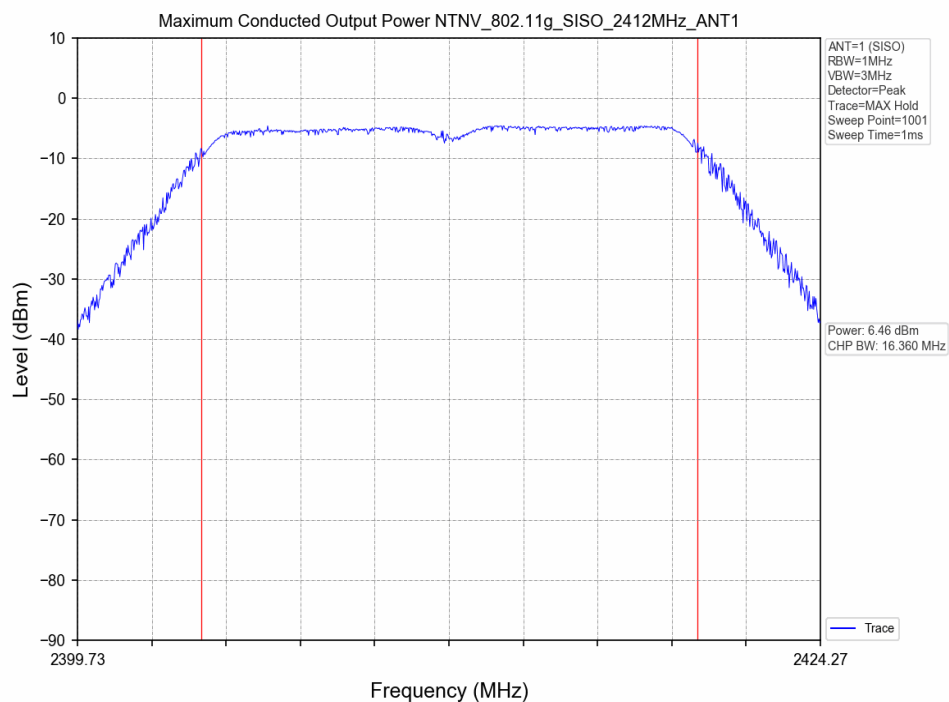
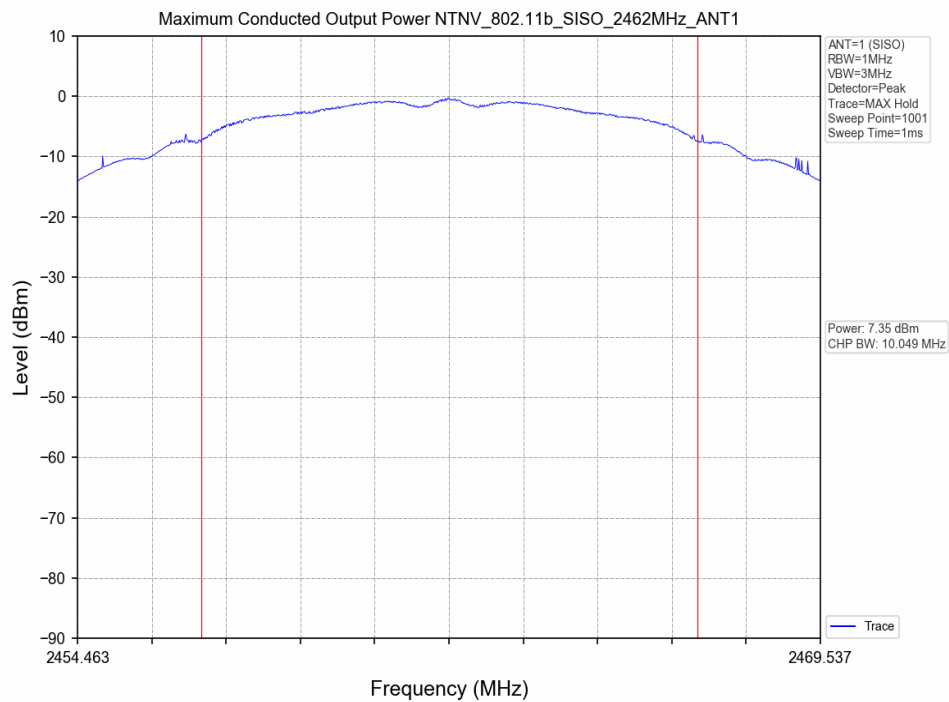
3. Maximum Conducted Output Power

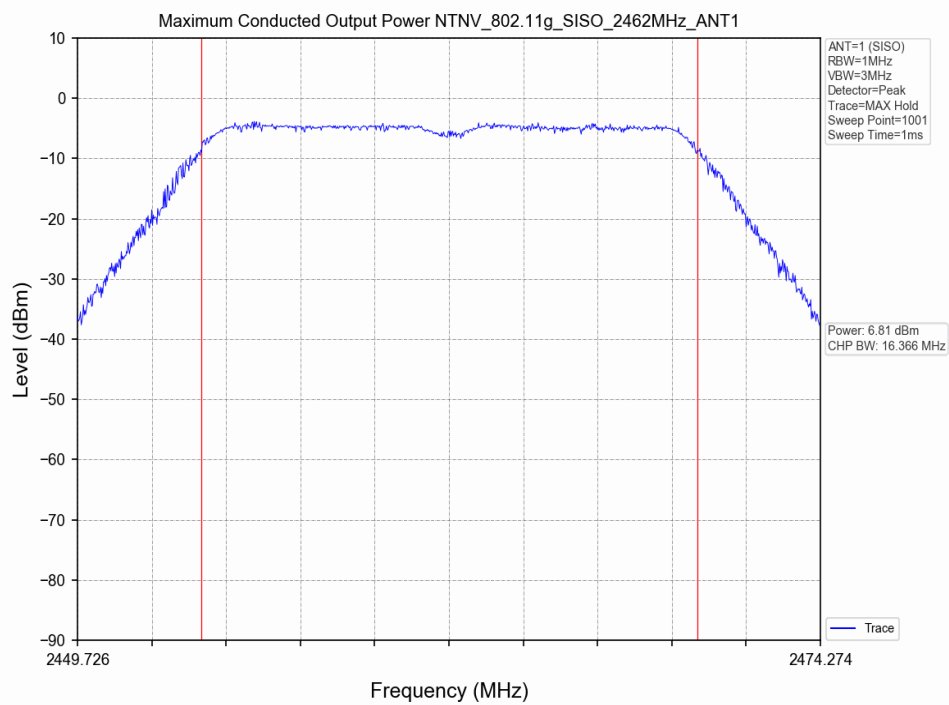
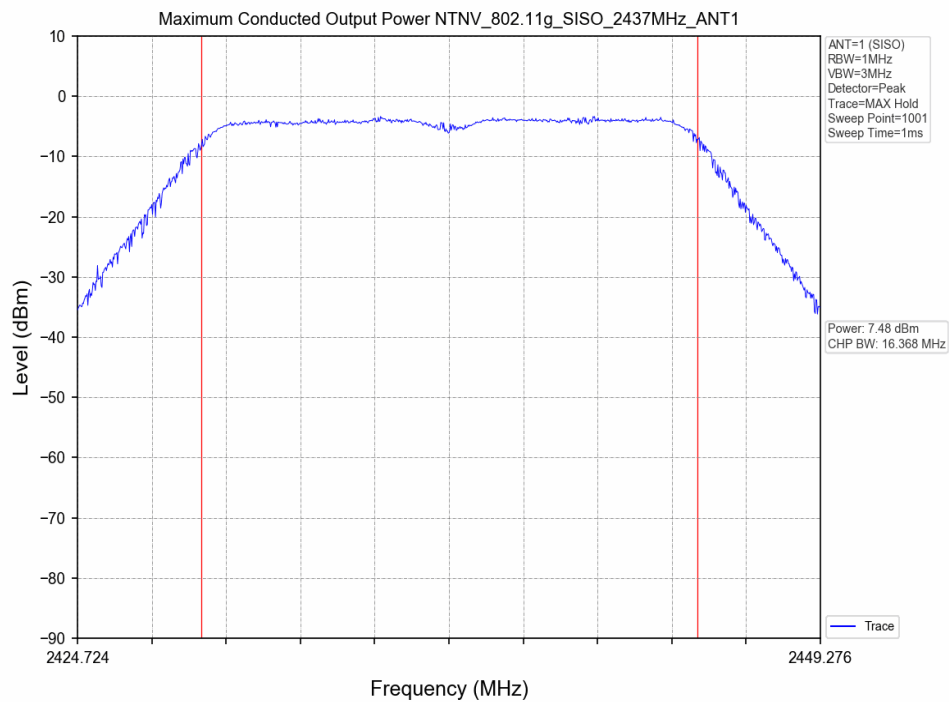
3.1 Test Result

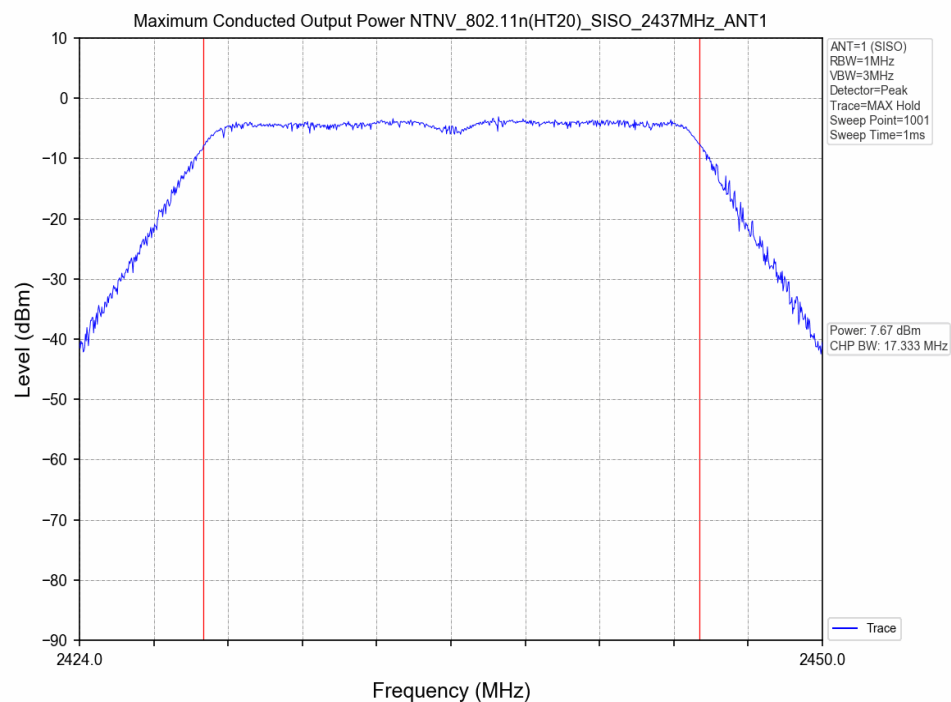
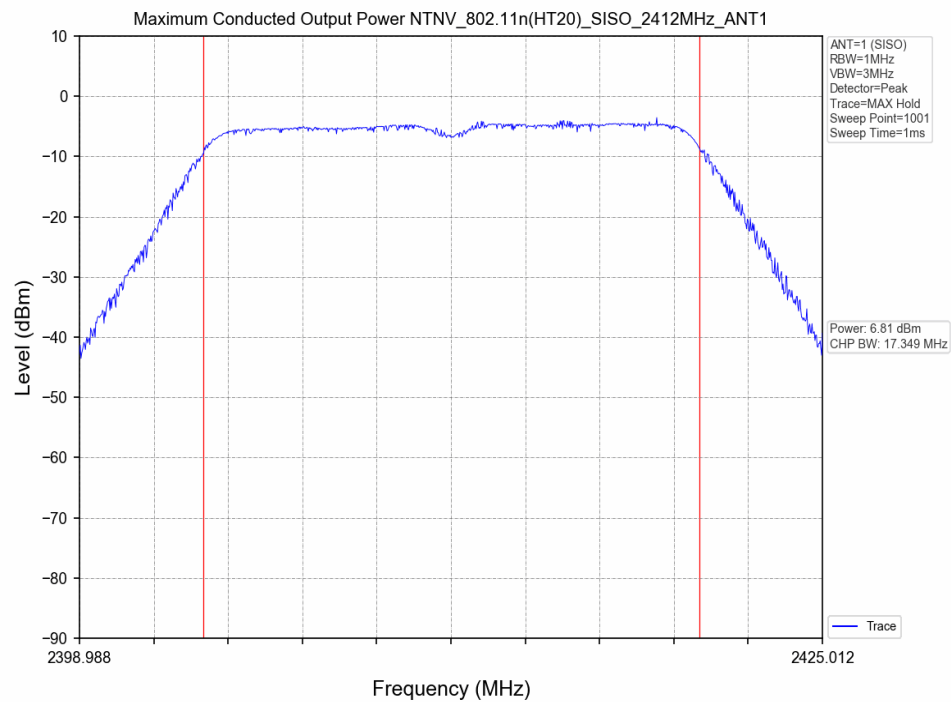
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	7.00	30	PASS
	2437	SISO	8.07	30	PASS
	2462	SISO	7.35	30	PASS
802.11g	2412	SISO	6.46	30	PASS
	2437	SISO	7.48	30	PASS
	2462	SISO	6.81	30	PASS
802.11n(HT20)	2412	SISO	6.81	30	PASS
	2437	SISO	7.67	30	PASS
	2462	SISO	7.28	30	PASS
802.11n(HT40)	2422	SISO	7.45	30	PASS
	2437	SISO	7.49	30	PASS
	2452	SISO	7.55	30	PASS

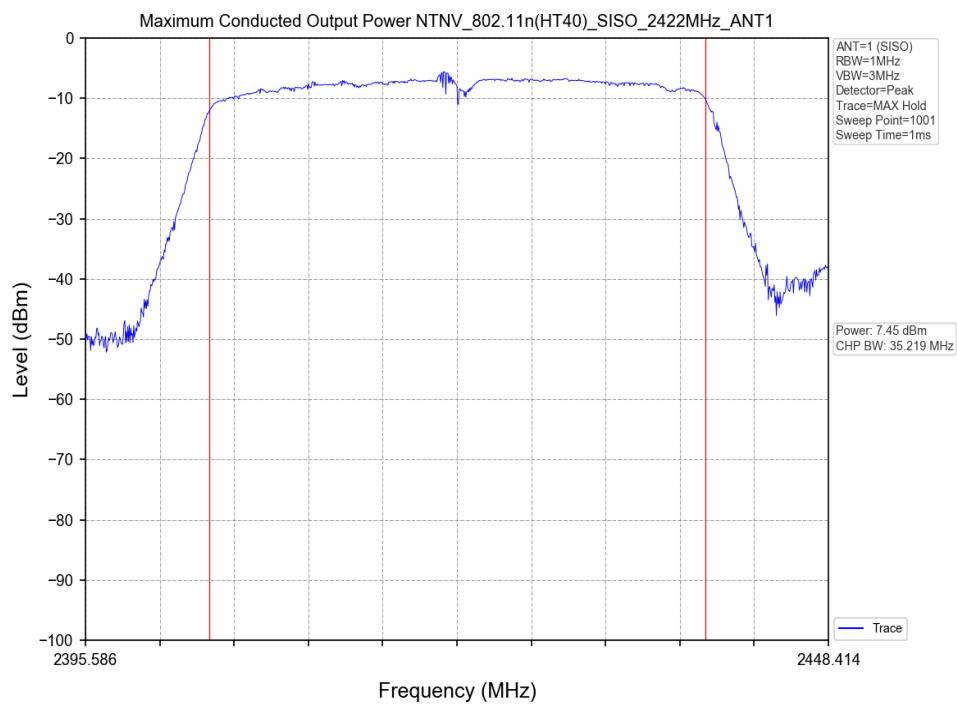
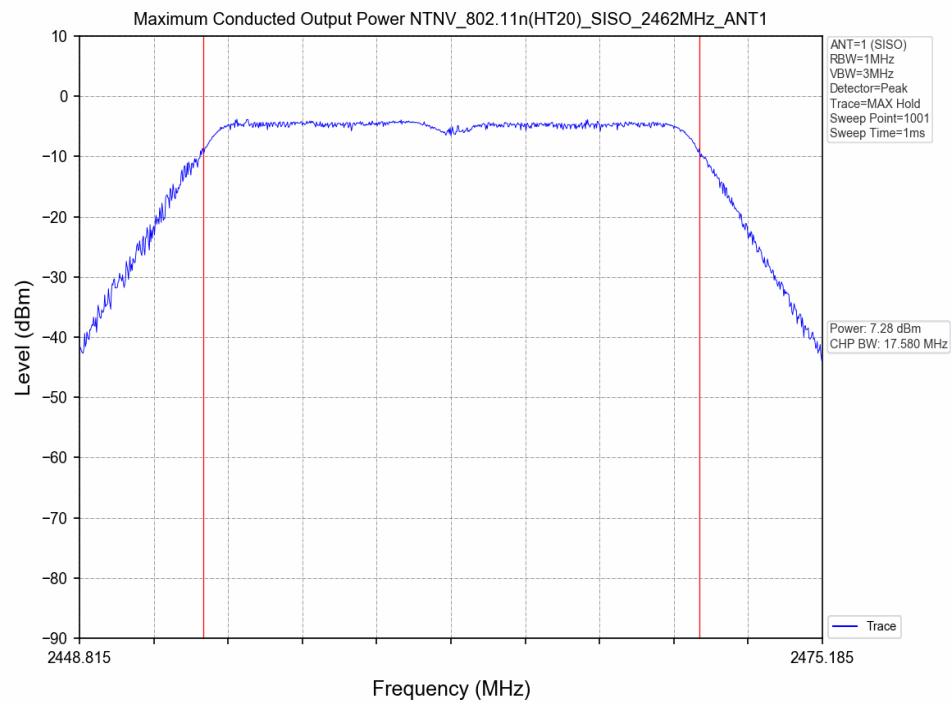
3.2 Test Graph

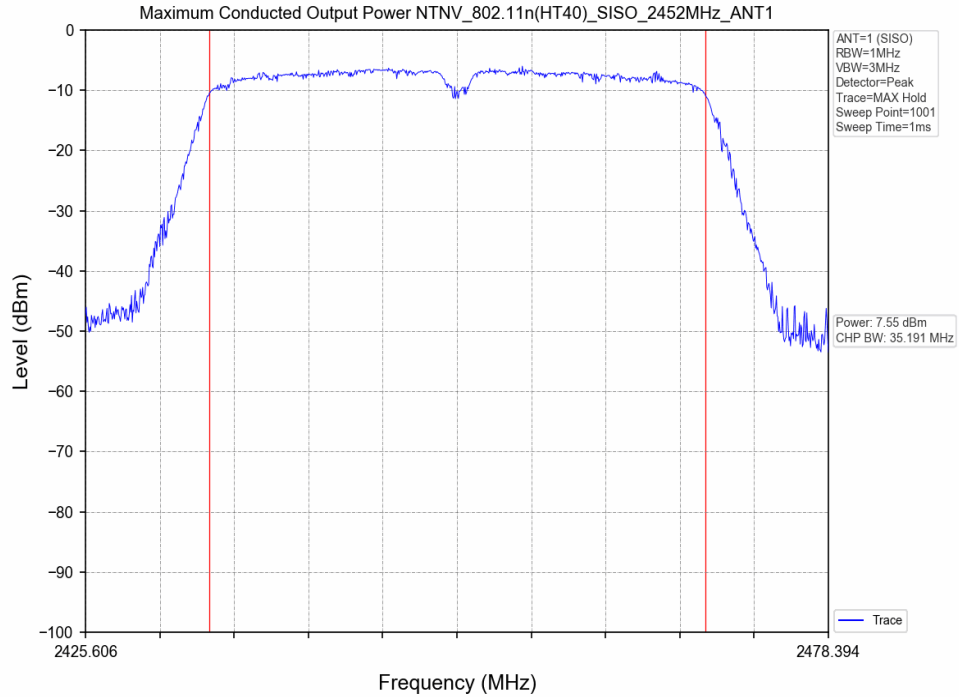
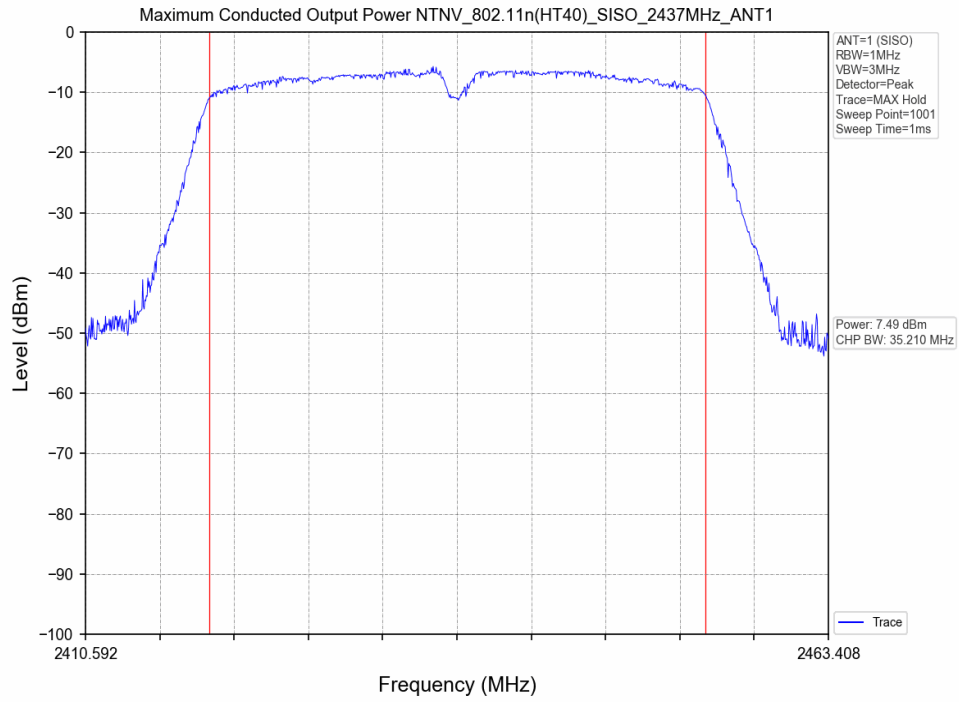










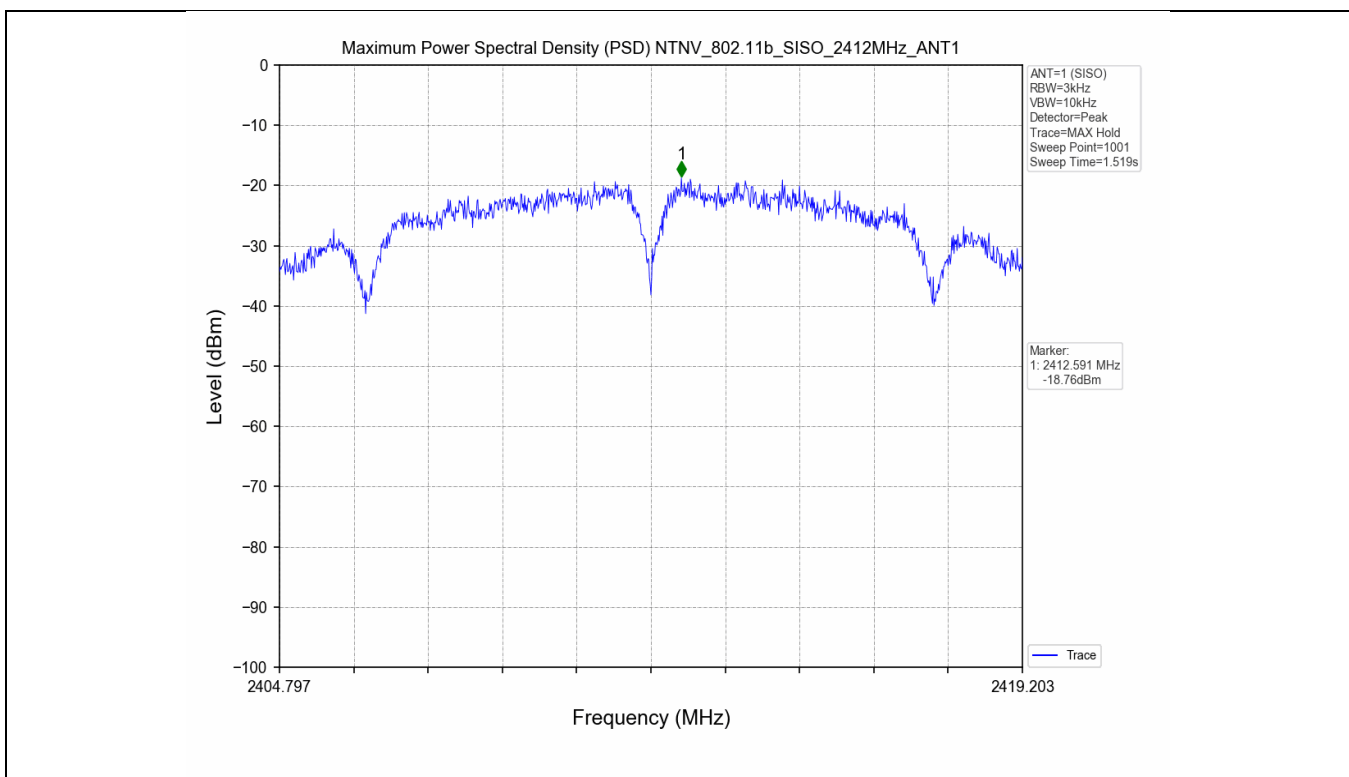


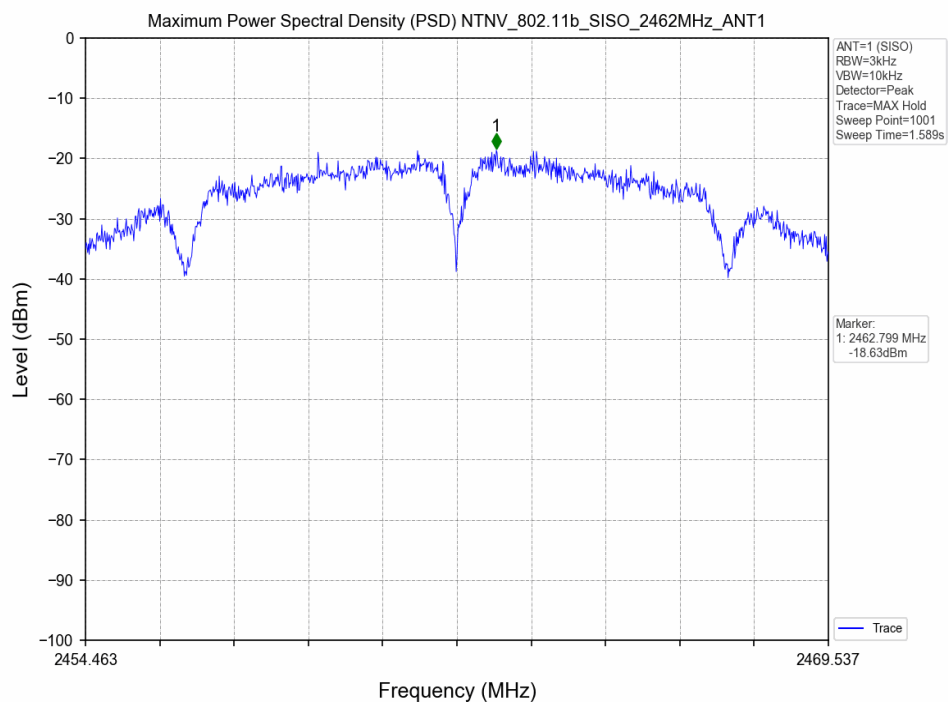
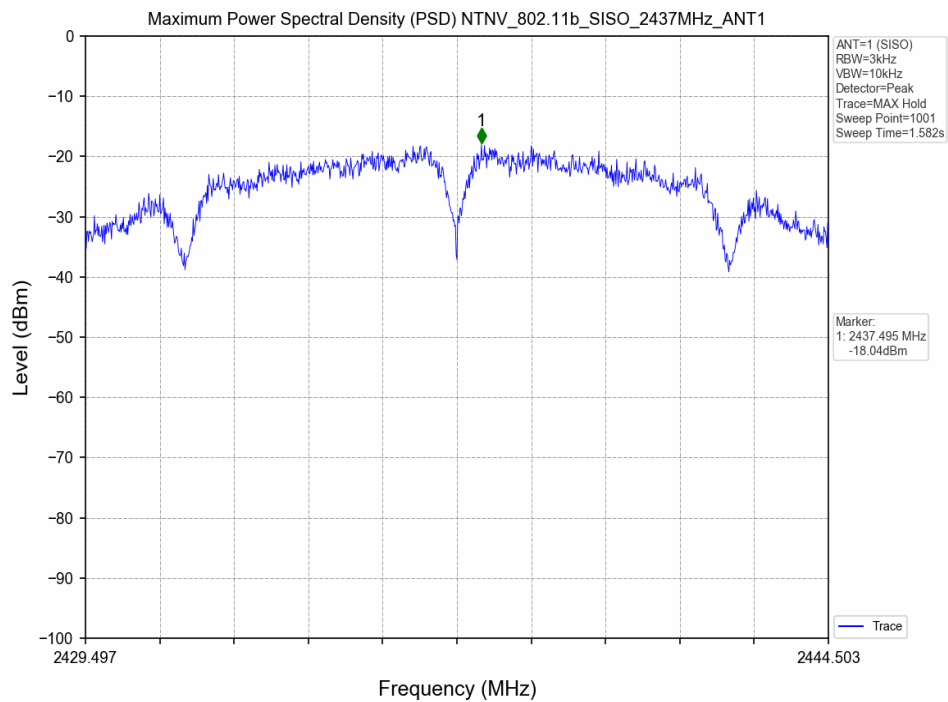
4. Maximum Power Spectral Density (PSD)

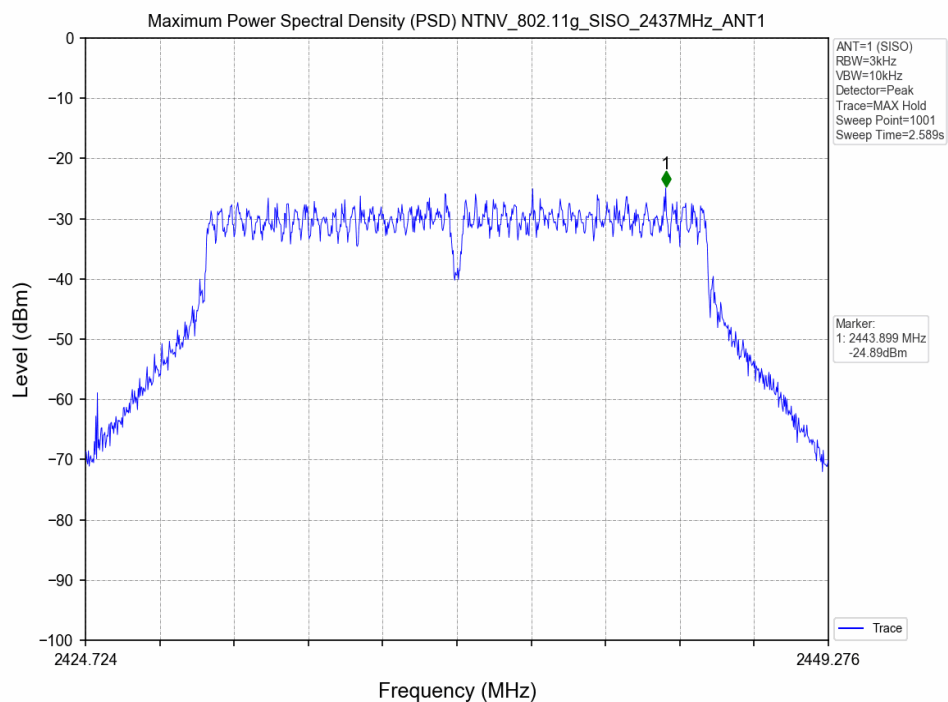
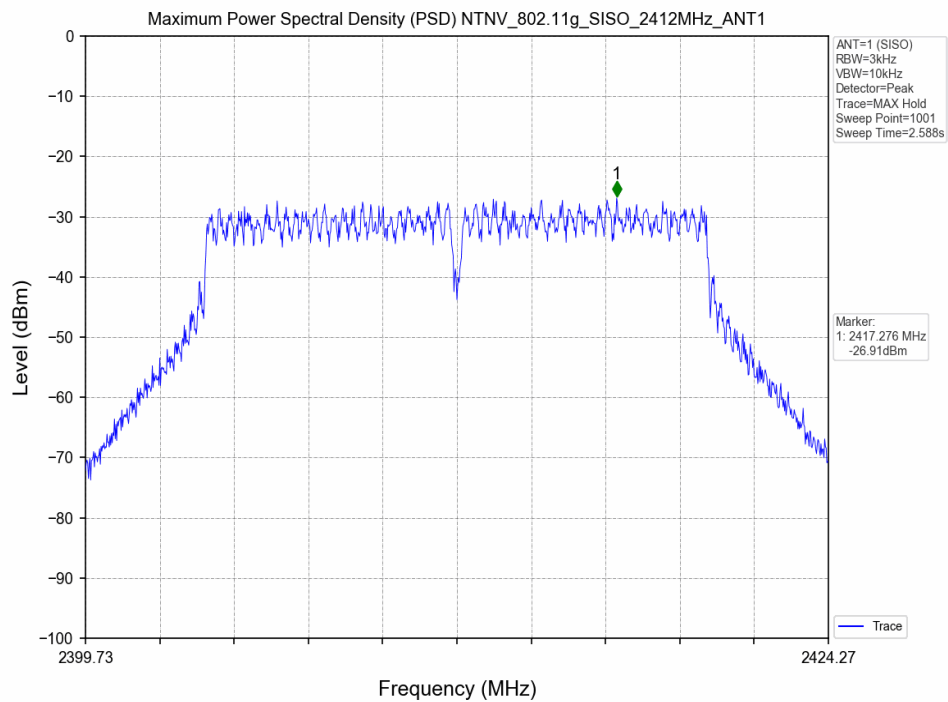
4.1 Test Result

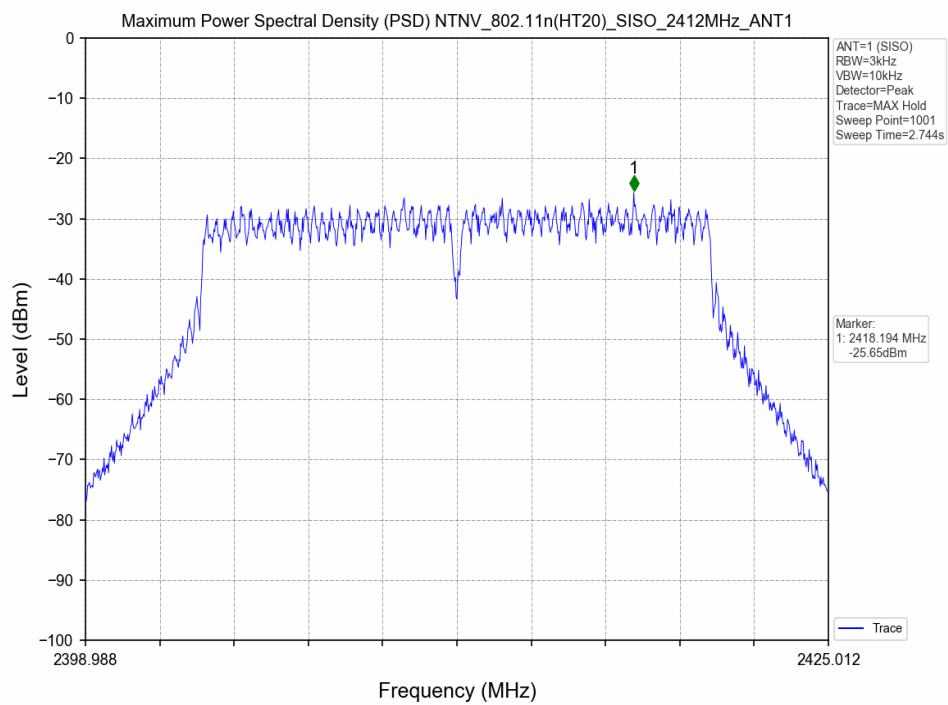
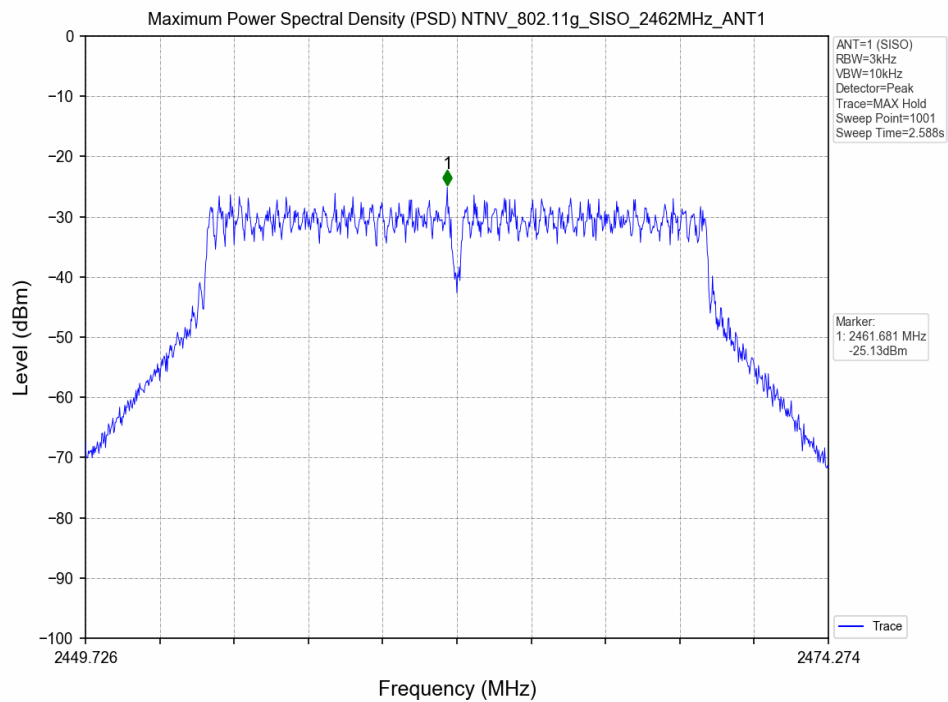
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3KHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-18.76	≤8	PASS
	2437	SISO	-18.04	≤8	PASS
	2462	SISO	-18.63	≤8	PASS
802.11g	2412	SISO	-26.91	≤8	PASS
	2437	SISO	-24.89	≤8	PASS
	2462	SISO	-25.13	≤8	PASS
802.11n(HT20)	2412	SISO	-25.65	≤8	PASS
	2437	SISO	-24.64	≤8	PASS
	2462	SISO	-25.78	≤8	PASS
802.11n(HT40)	2422	SISO	-28.64	≤8	PASS
	2437	SISO	-28.20	≤8	PASS
	2452	SISO	-27.70	≤8	PASS

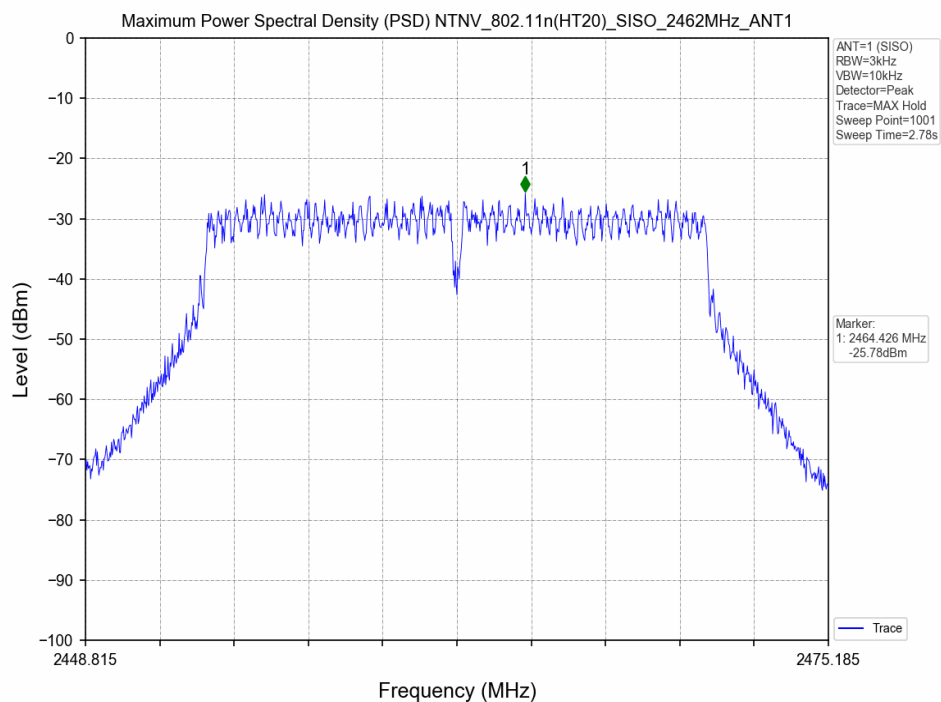
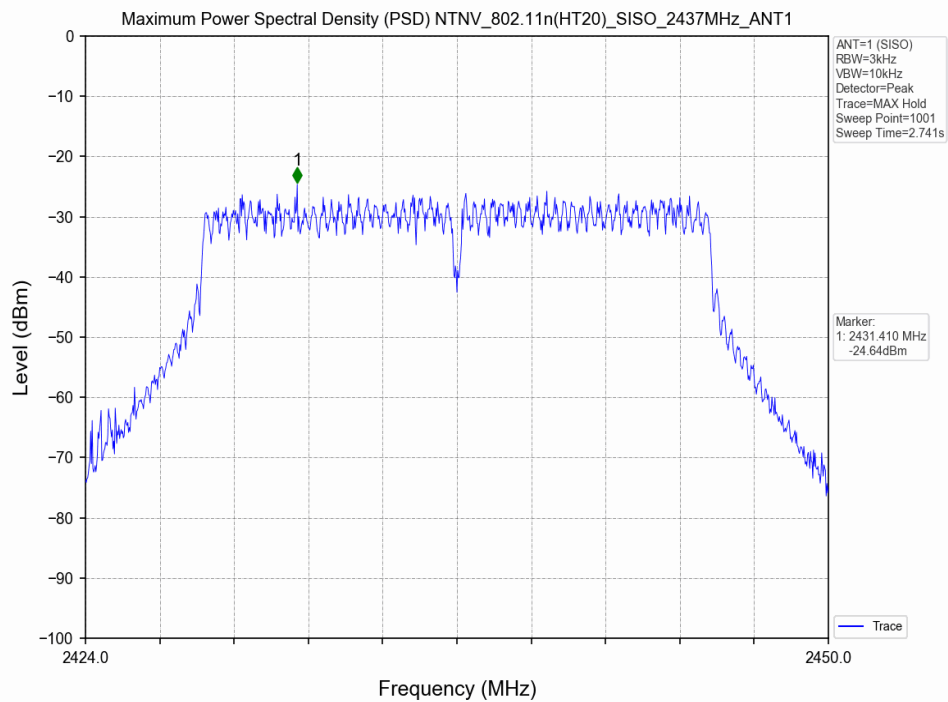
4.2 Test Graph

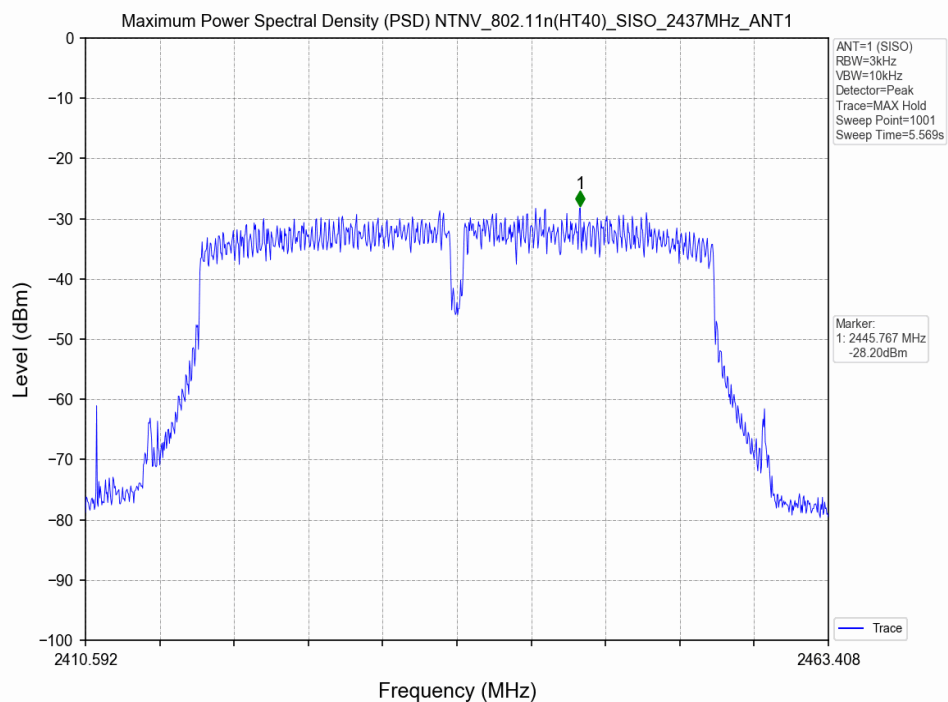
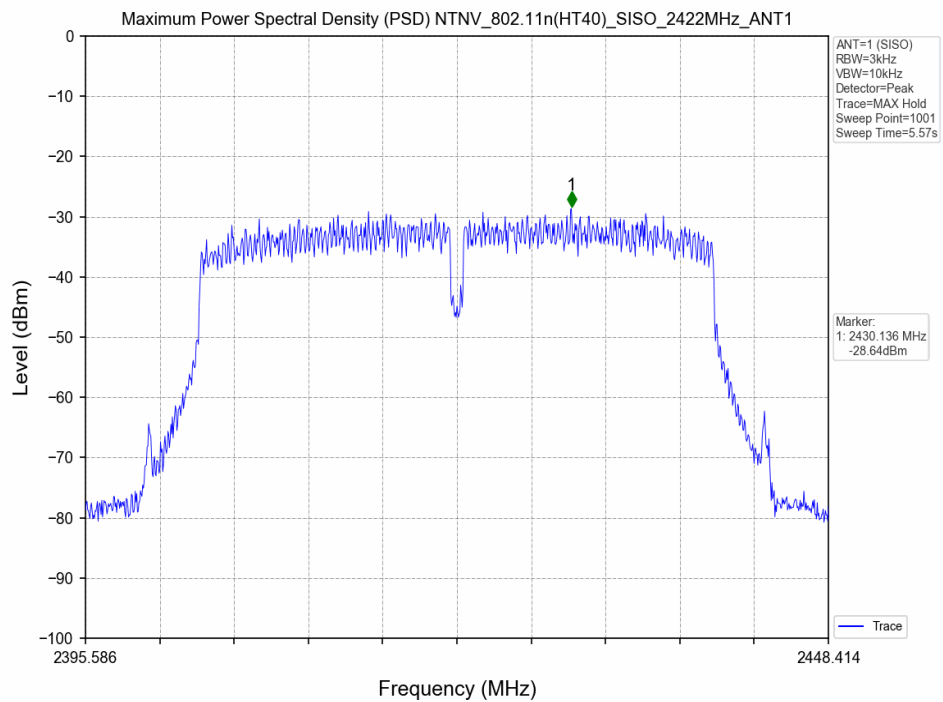


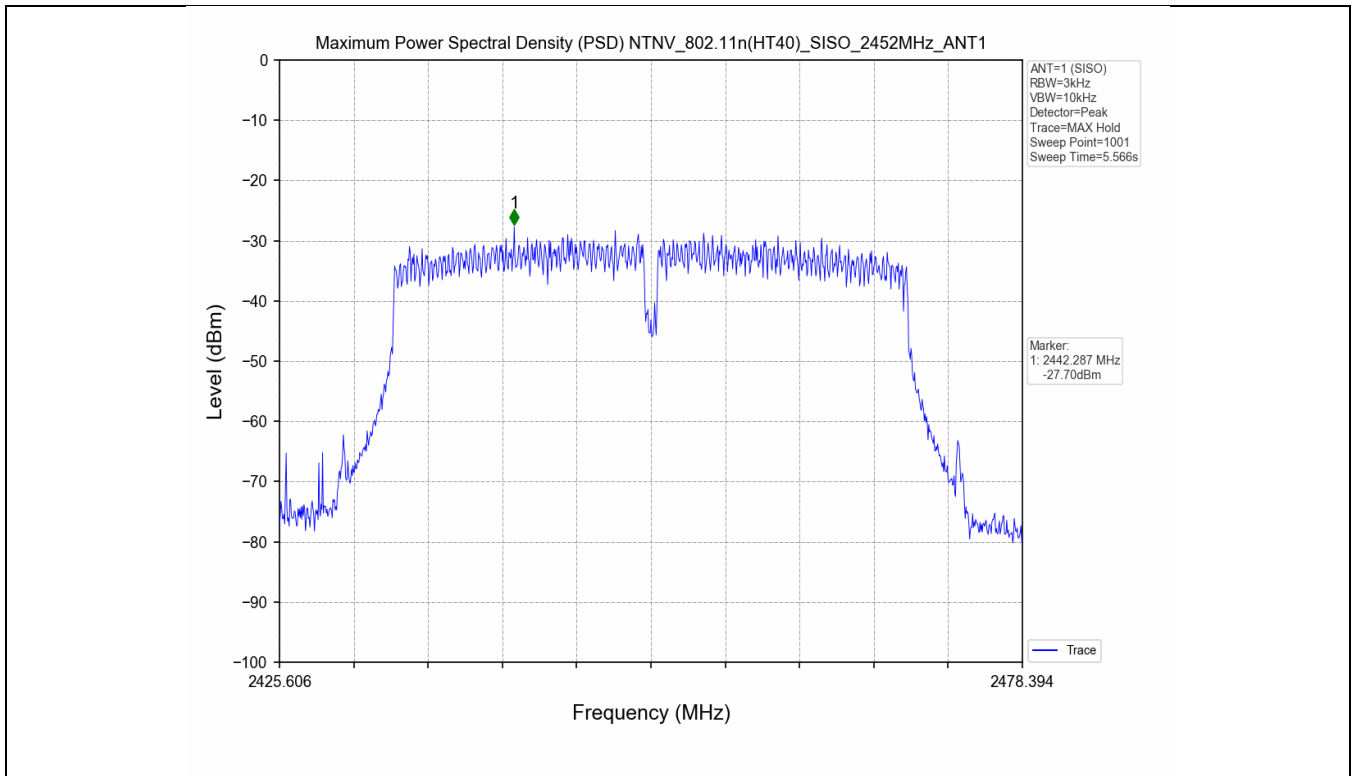












5. Unwanted Emissions in Non-restricted Frequency Bands

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	-23.23	PASS
	2437	SISO	1	Refer to test graph	-23.23	PASS
	2462	SISO	1	Refer to test graph	-23.23	PASS
802.11g	2412	SISO	1	Refer to test graph	-31.14	PASS
	2437	SISO	1	Refer to test graph	-31.14	PASS
	2462	SISO	1	Refer to test graph	-31.14	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-30.53	PASS
	2437	SISO	1	Refer to test graph	-30.53	PASS
	2462	SISO	1	Refer to test graph	-30.53	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-33.53	PASS
	2437	SISO	1	Refer to test graph	-33.53	PASS
	2452	SISO	1	Refer to test graph	-33.53	PASS

5.2 Test Graph

