

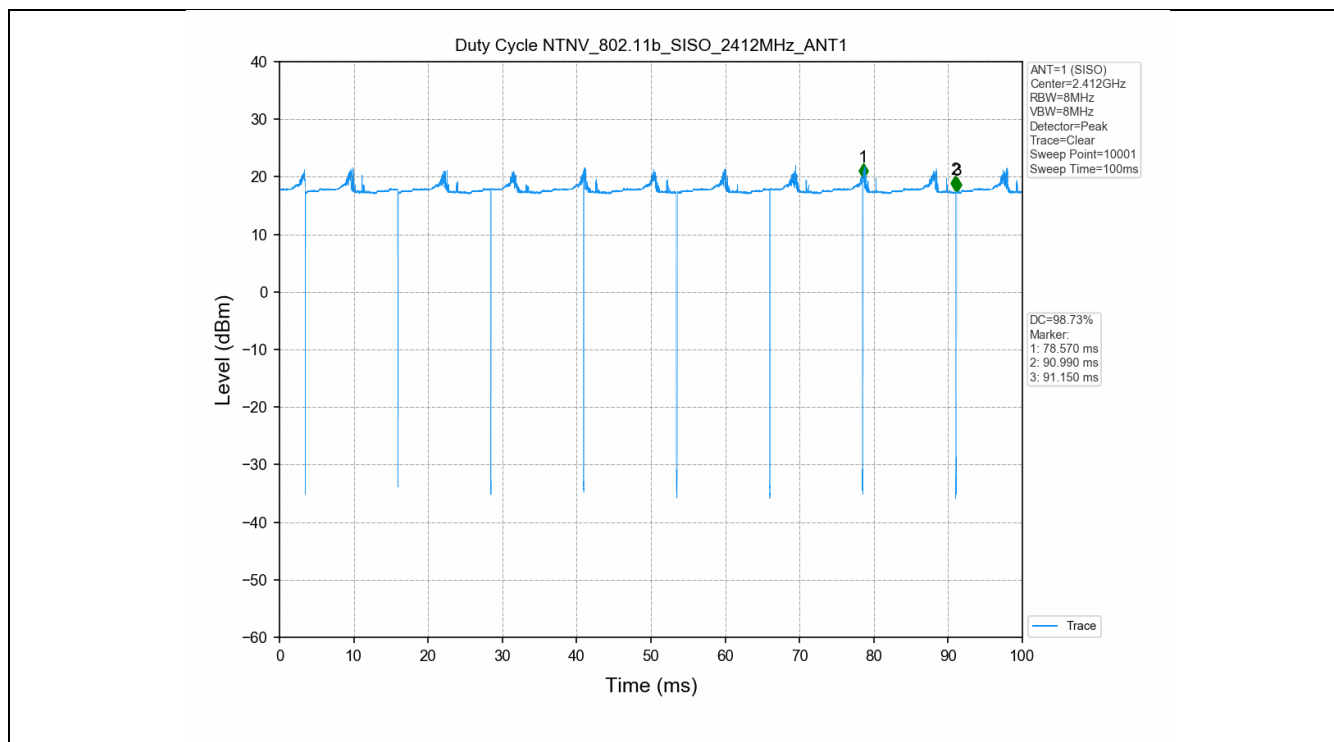
Appendix A for SHEM200500340001

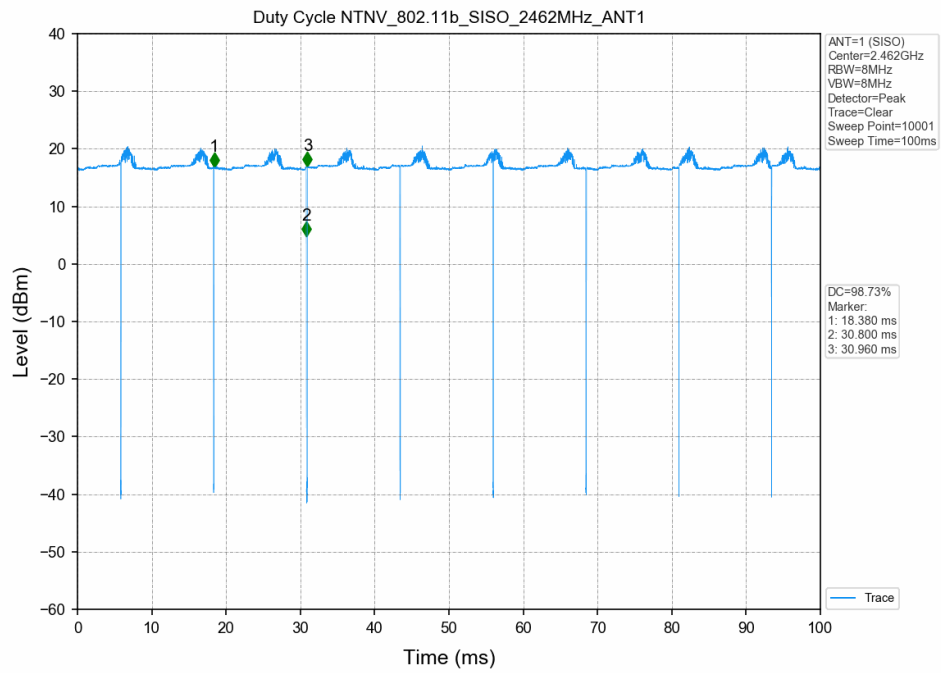
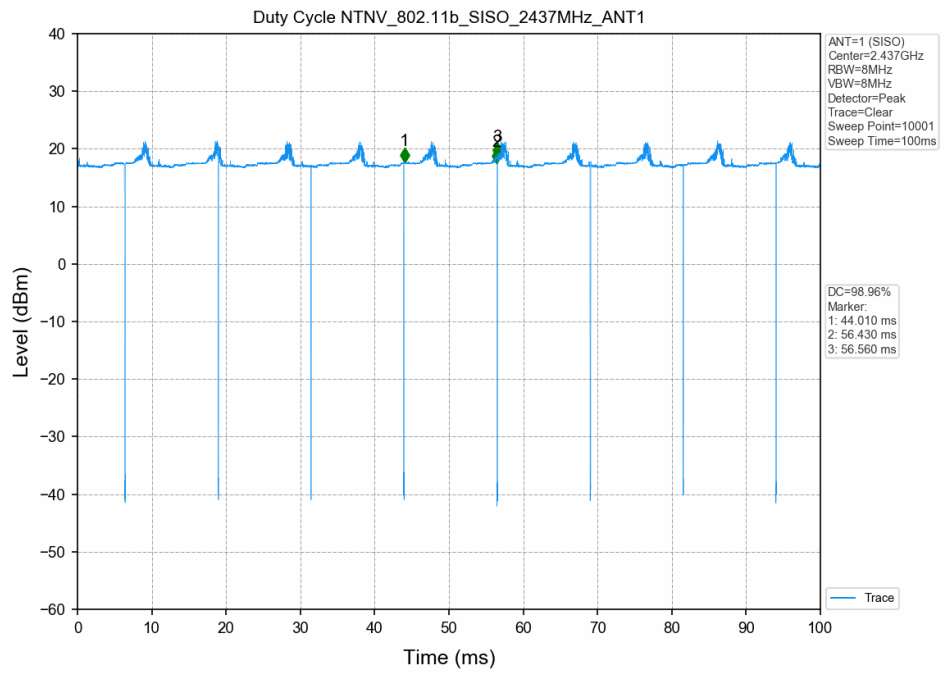
1. Duty Cycle

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	12.420	12.580	98.73	0.06
	2437	SISO	1	12.420	12.550	98.96	0.05
	2462	SISO	1	12.420	12.580	98.73	0.06
802.11g	2412	SISO	1	2.064	2.235	92.35	0.35
	2437	SISO	1	2.066	2.218	93.15	0.31
	2462	SISO	1	2.063	2.215	93.14	0.31
802.11n(HT20)	2412	SISO	1	1.890	2.041	92.60	0.33
	2437	SISO	1	1.920	2.090	91.87	0.37
	2462	SISO	1	1.920	2.064	93.02	0.31
802.11n(HT40)	2422	SISO	1	0.648	0.818	79.22	1.01
	2437	SISO	1	0.648	0.800	81.00	0.92
	2452	SISO	1	0.648	0.809	80.10	0.96

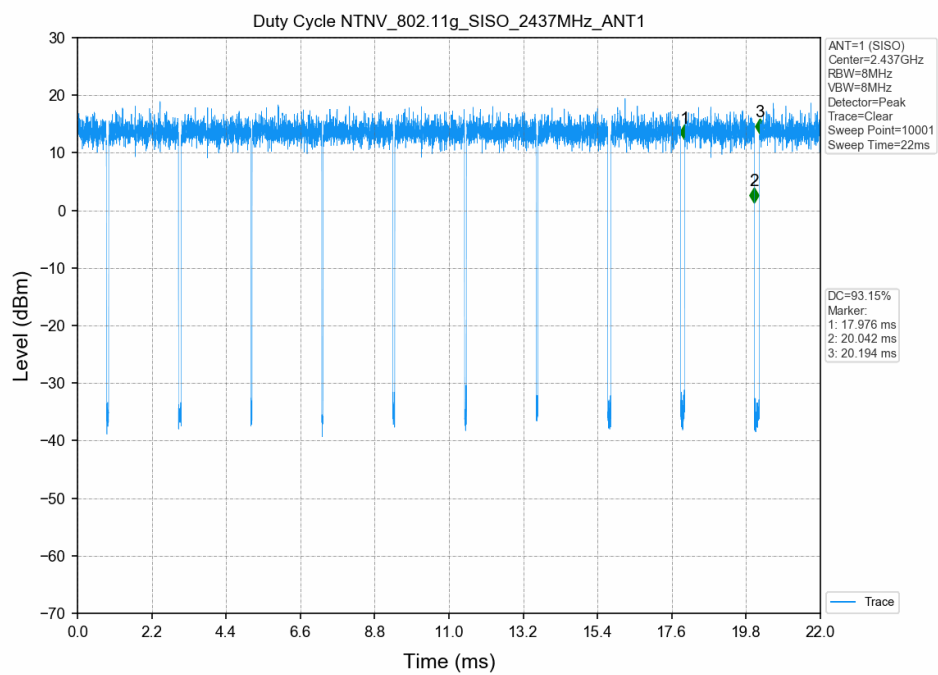
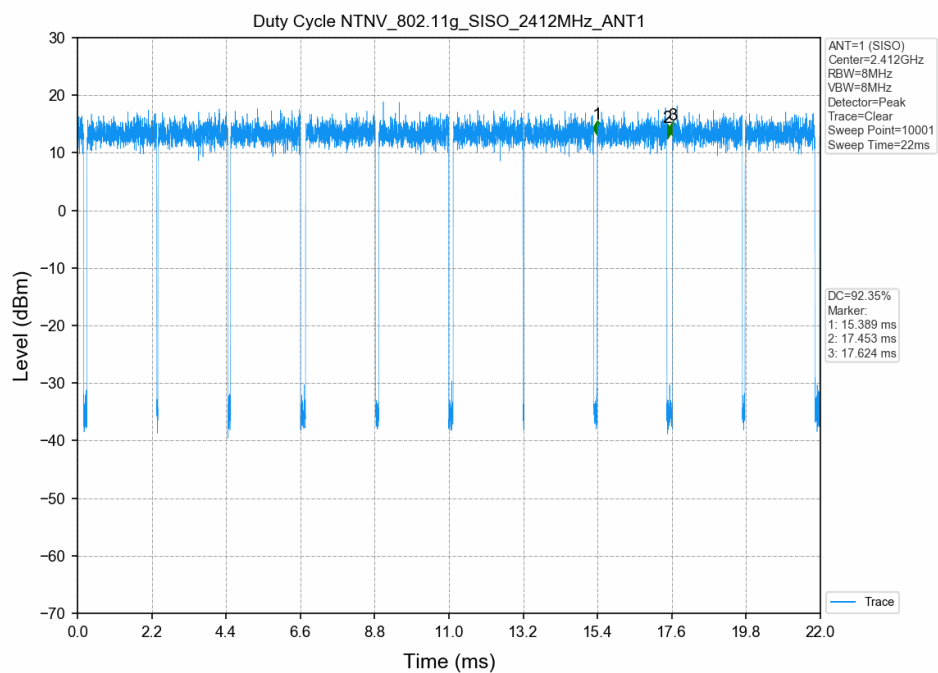
1.2 Test Graph

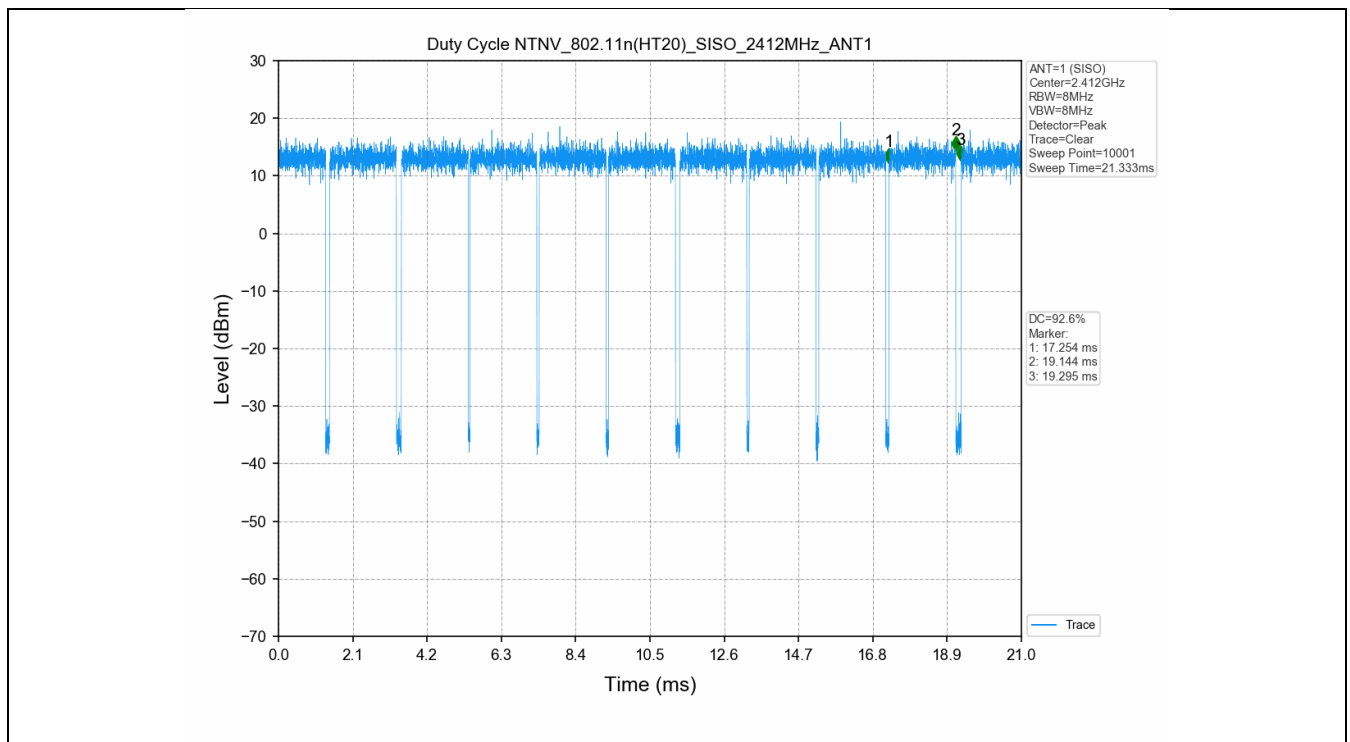
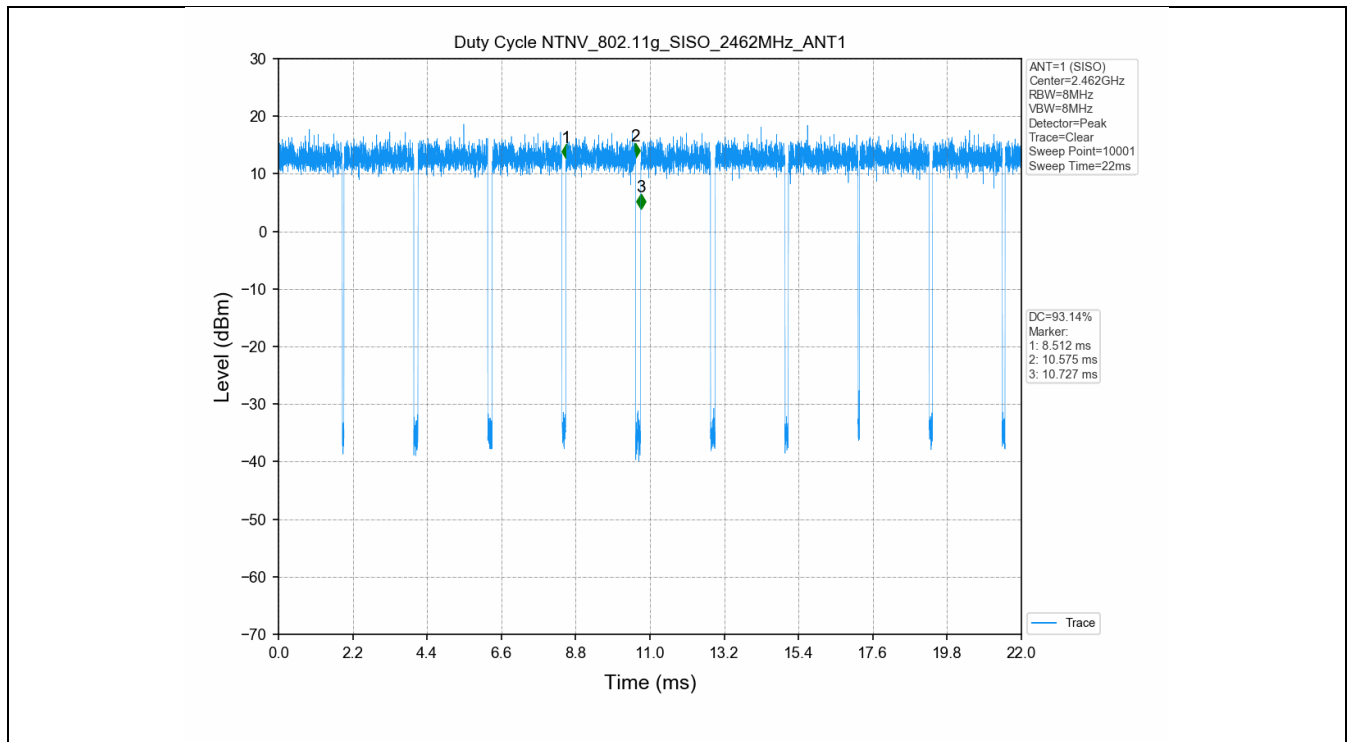


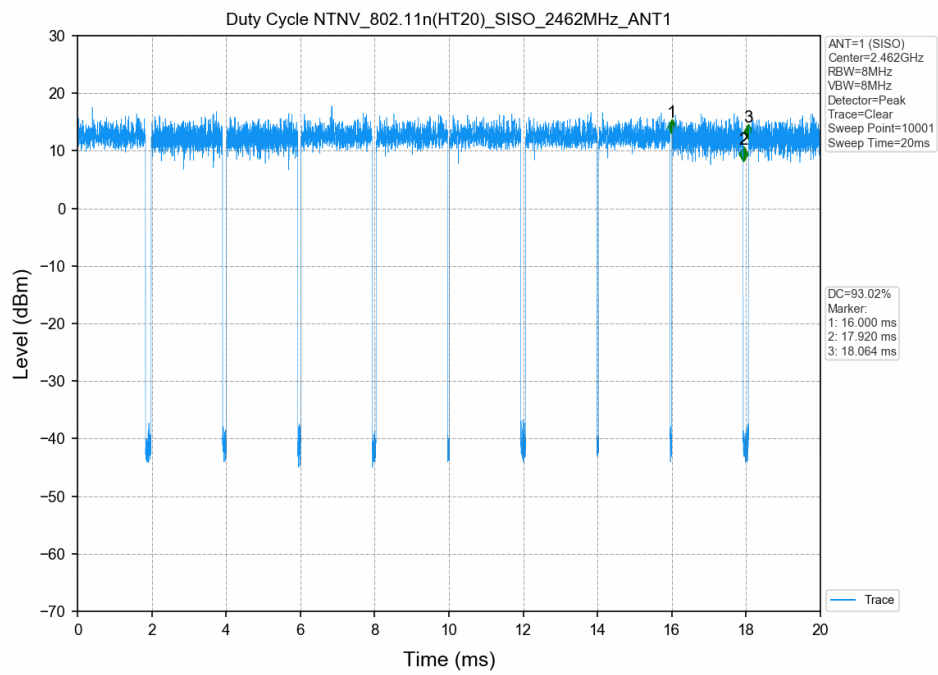
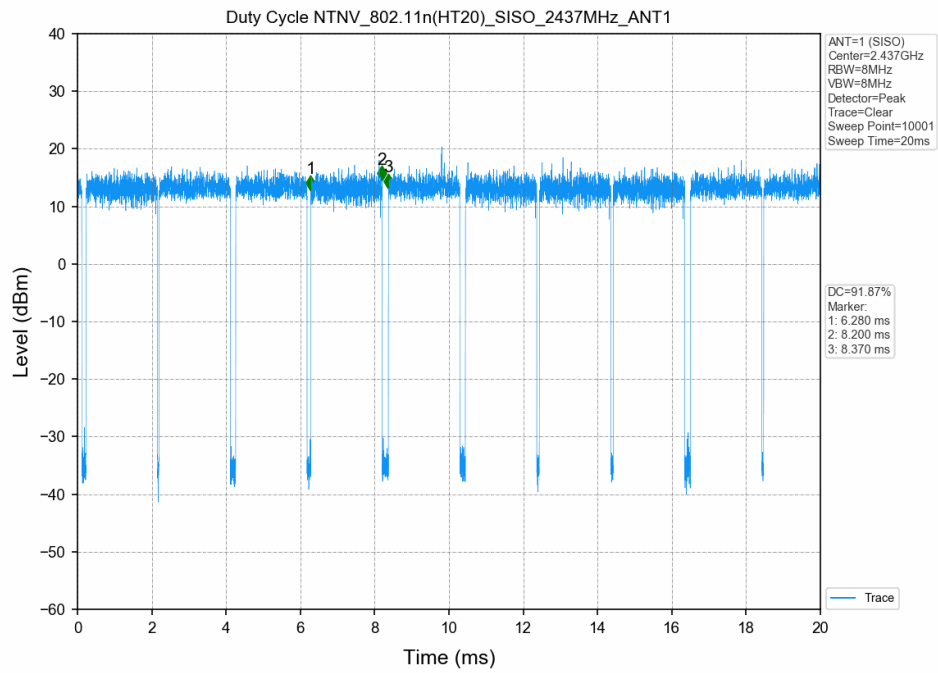


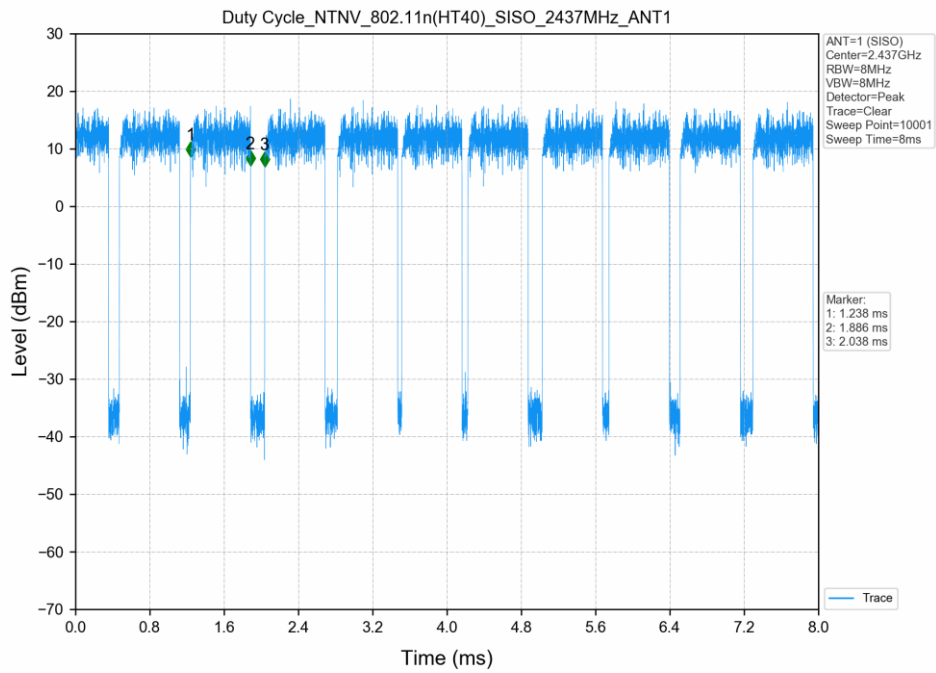
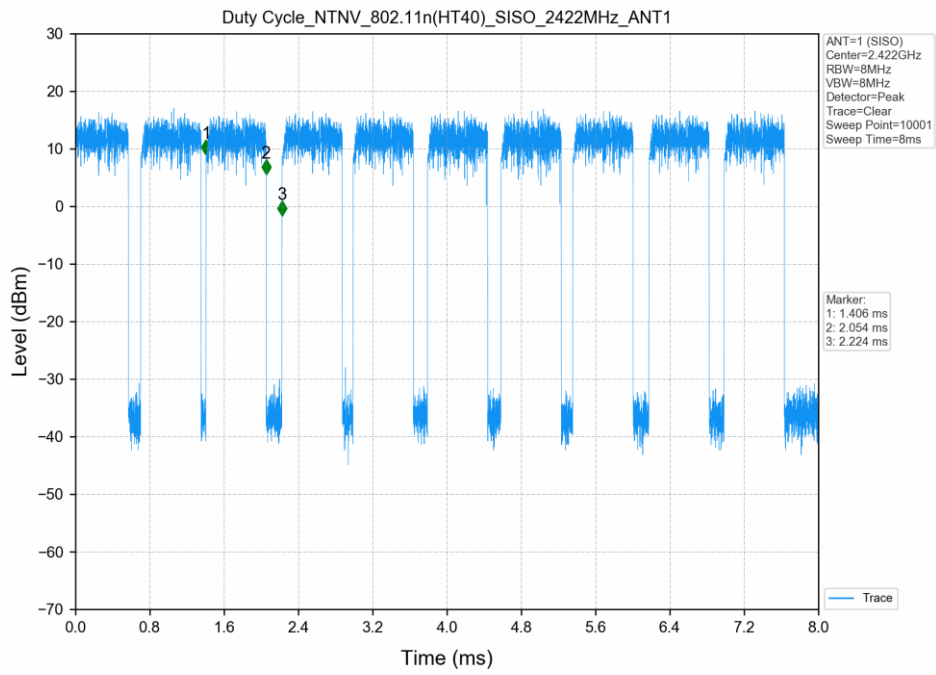


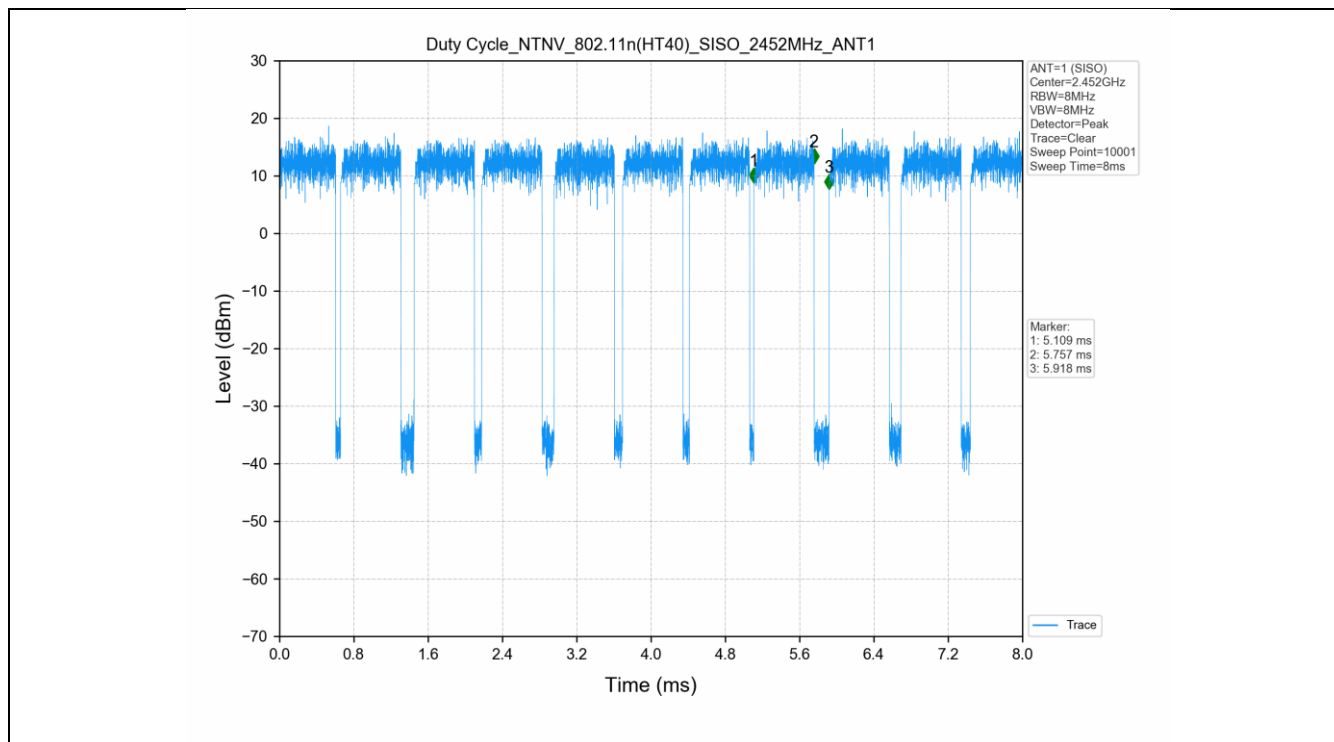
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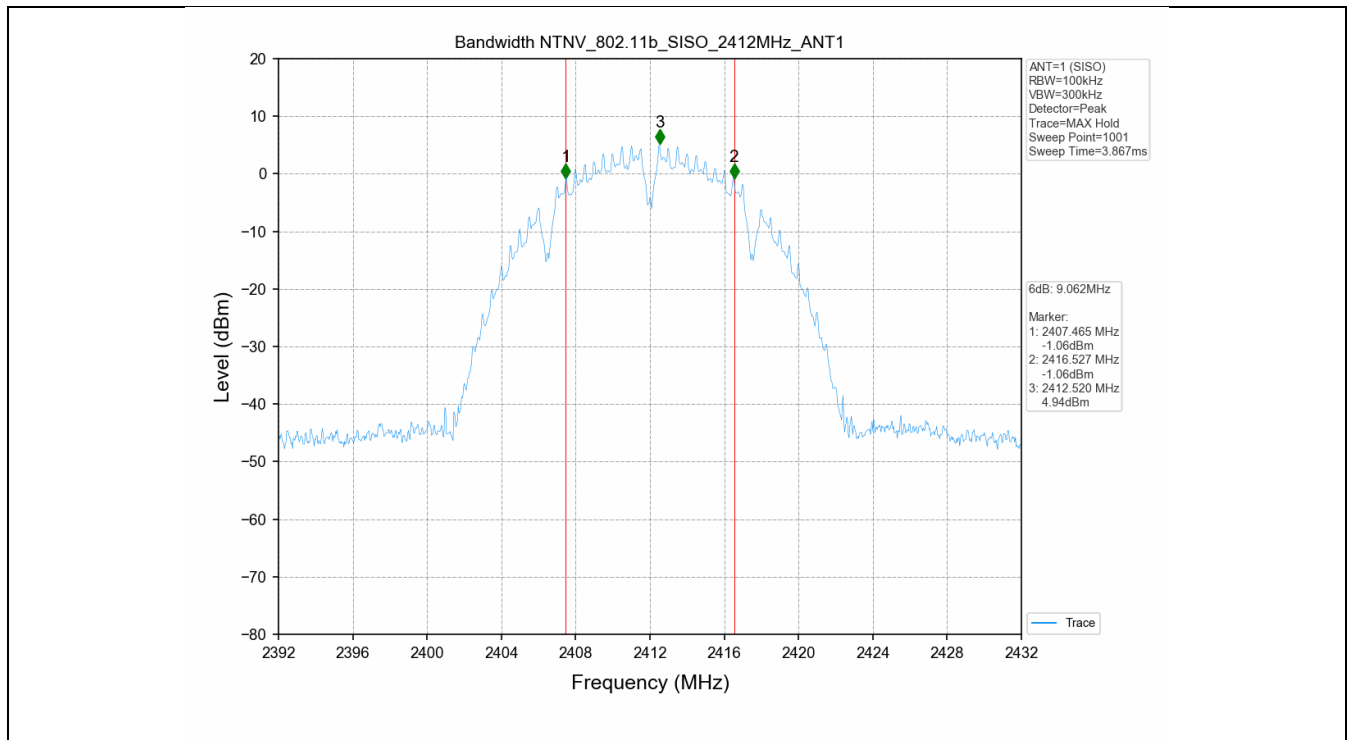
2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth					Verdict
				Test Result (MHz)	Limits (MHz)	1.5*BW	Span using in PSD	Span using in Power	
802.11b	2412	SISO	1	9.062	≥0.5	13.593	13.600	21.000	PASS
	2437	SISO	1	9.056	≥0.5	13.584	13.580	21.000	PASS
	2462	SISO	1	9.074	≥0.5	13.611	13.620	21.000	PASS
802.11g	2412	SISO	1	16.398	≥0.5	24.597	24.600	26.000	PASS
	2437	SISO	1	16.386	≥0.5	24.579	24.580	26.000	PASS
	2462	SISO	1	16.368	≥0.5	24.552	24.560	26.000	PASS
802.11n(HT20)	2412	SISO	1	17.605	≥0.5	26.408	26.400	27.000	PASS
	2437	SISO	1	17.569	≥0.5	26.354	26.360	27.000	PASS
	2462	SISO	1	17.313	≥0.5	25.970	25.960	27.000	PASS
802.11n(HT40)	2422	SISO	1	35.938	≥0.5	53.907	53.900	55.000	PASS
	2437	SISO	1	35.579	≥0.5	53.369	53.360	56.000	PASS
	2452	SISO	1	35.588	≥0.5	53.382	53.380	56.000	PASS

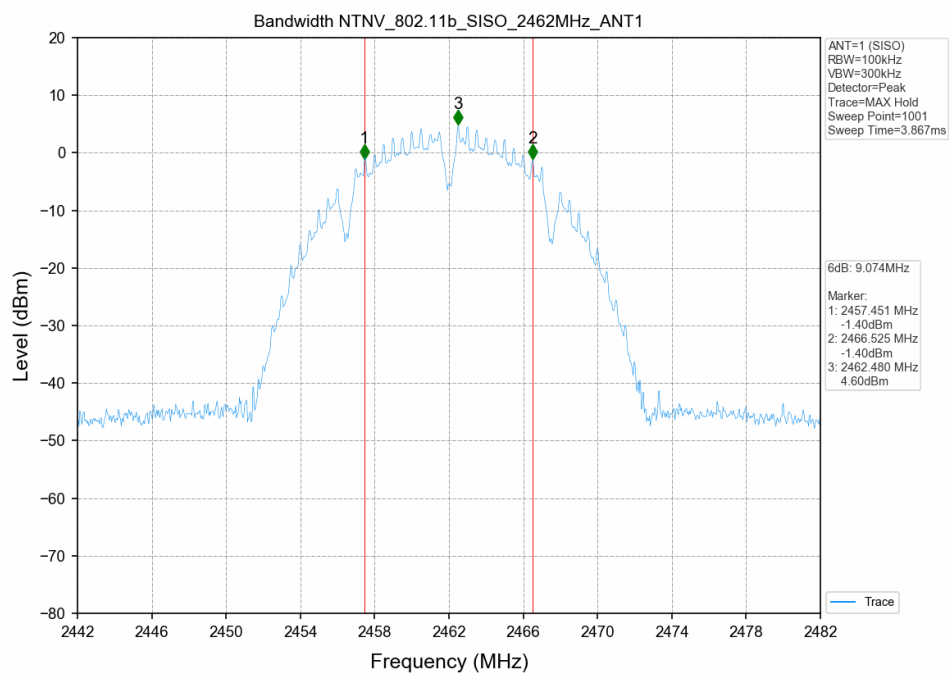
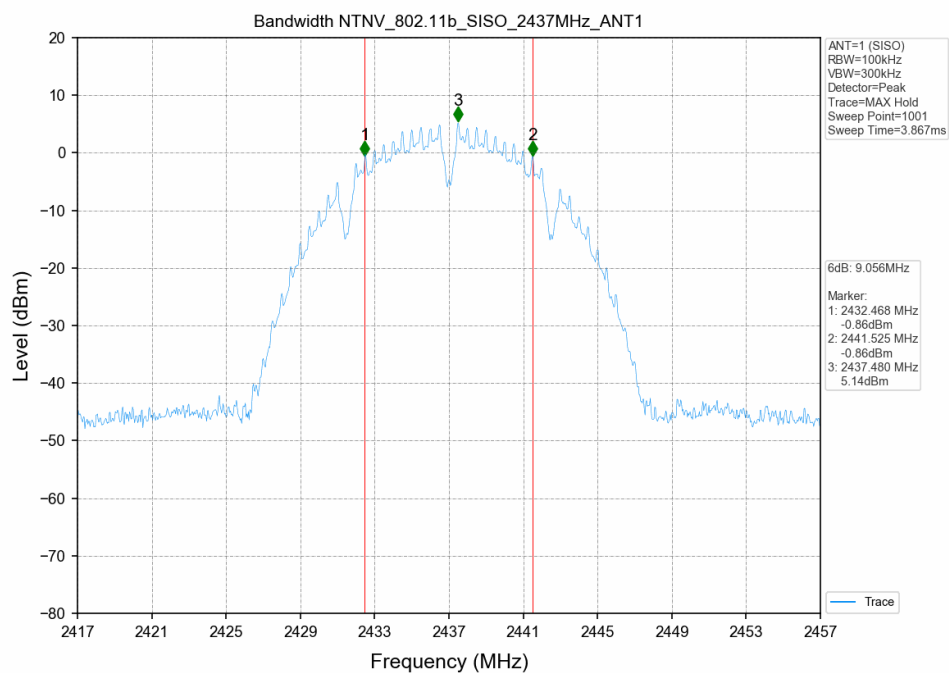
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	13.508	Only for Report Use
	2437	SISO	1	13.505	Only for Report Use
	2462	SISO	1	13.489	Only for Report Use
802.11g	2412	SISO	1	16.737	Only for Report Use
	2437	SISO	1	16.847	Only for Report Use
	2462	SISO	1	16.858	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.816	Only for Report Use
	2437	SISO	1	17.819	Only for Report Use
	2462	SISO	1	17.844	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.562	Only for Report Use
	2437	SISO	1	36.733	Only for Report Use
	2452	SISO	1	36.401	Only for Report Use

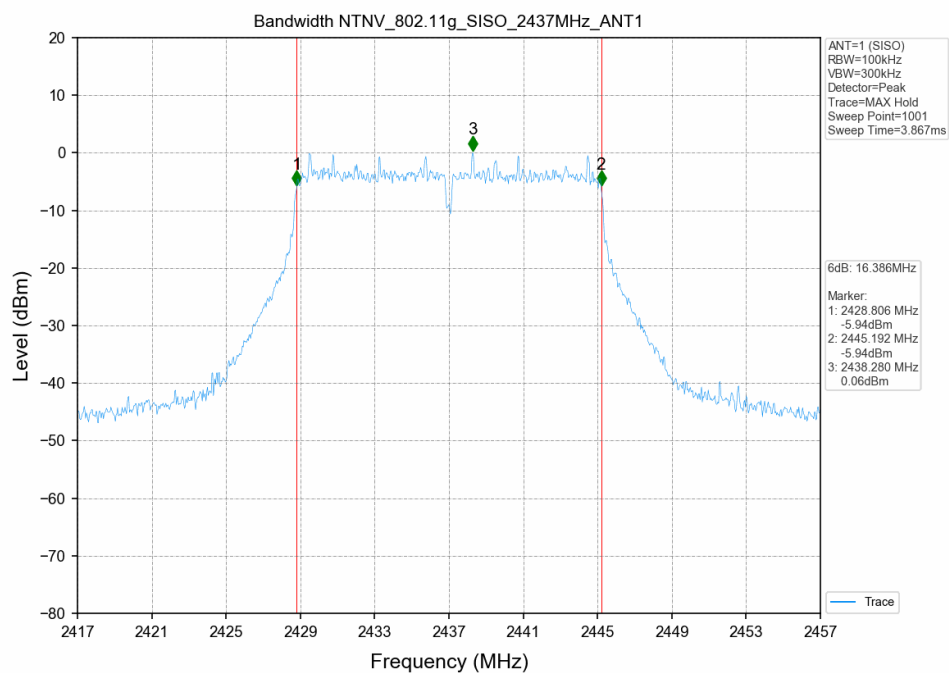
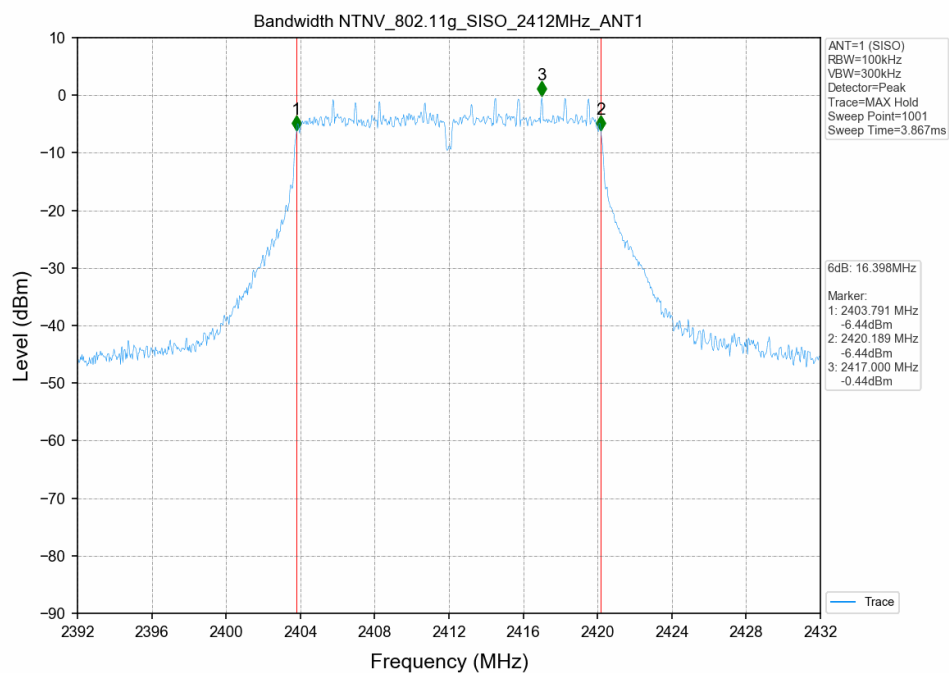
2.2 Test Graph - 6dB Bandwidth





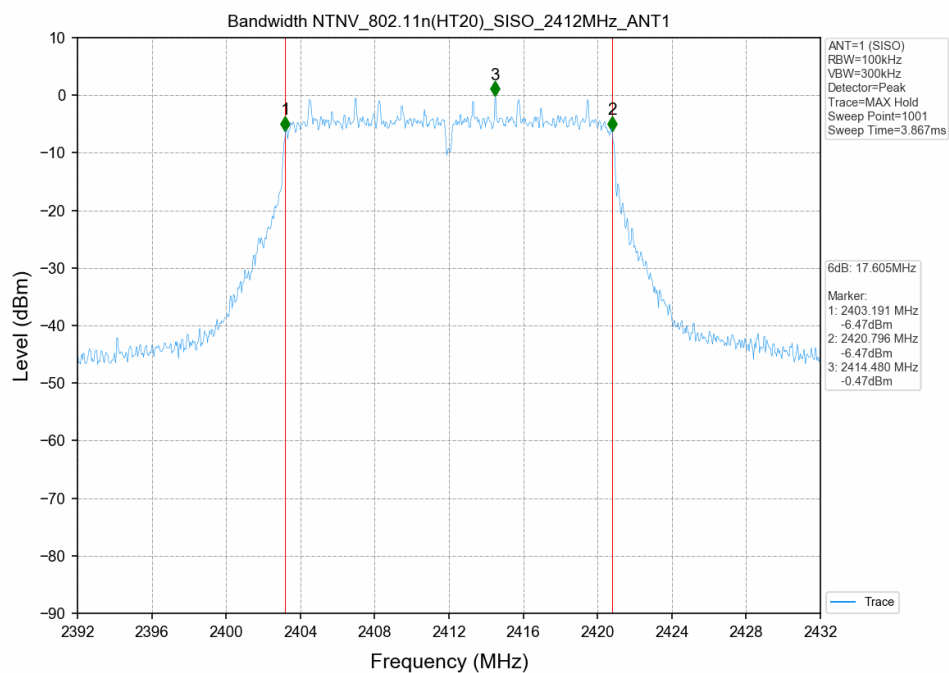
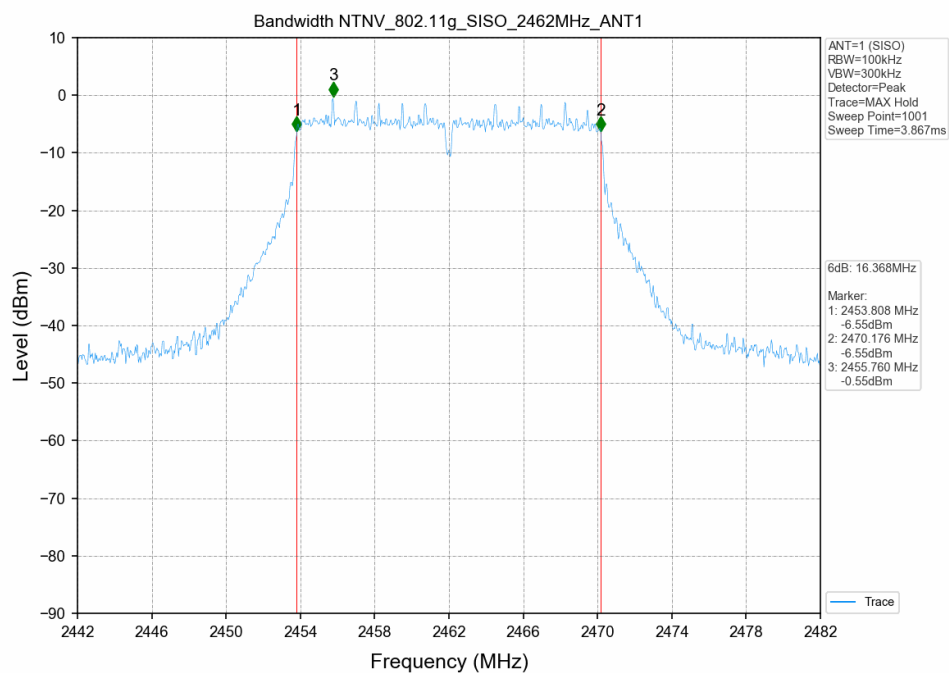
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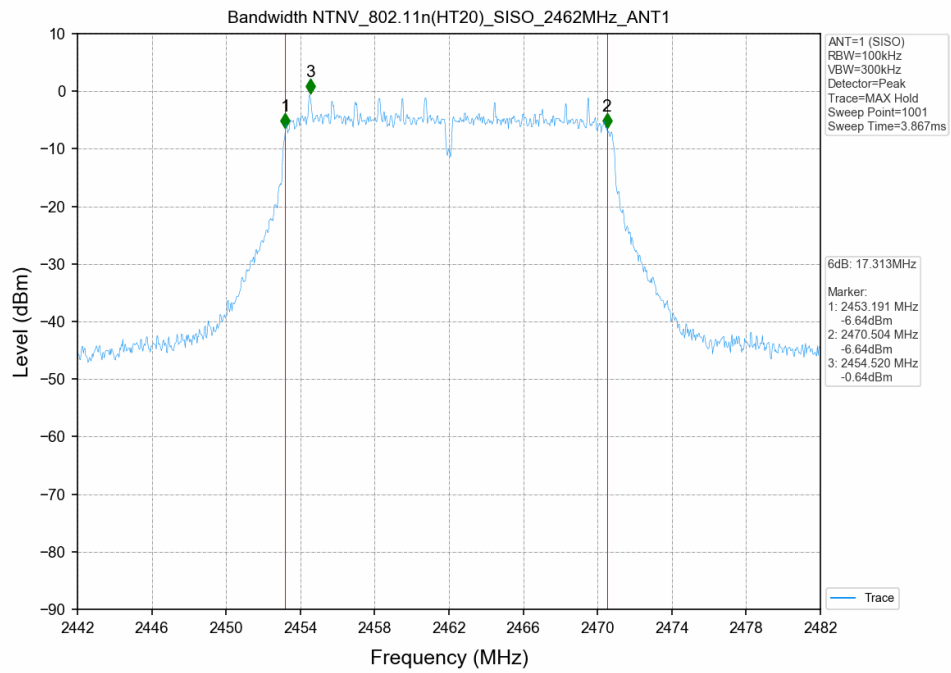
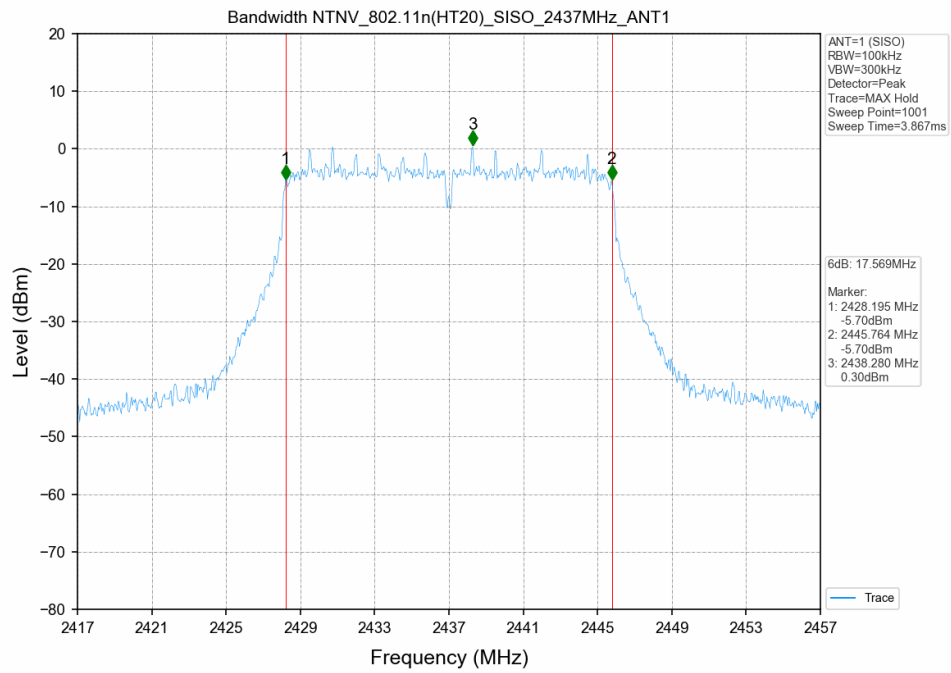






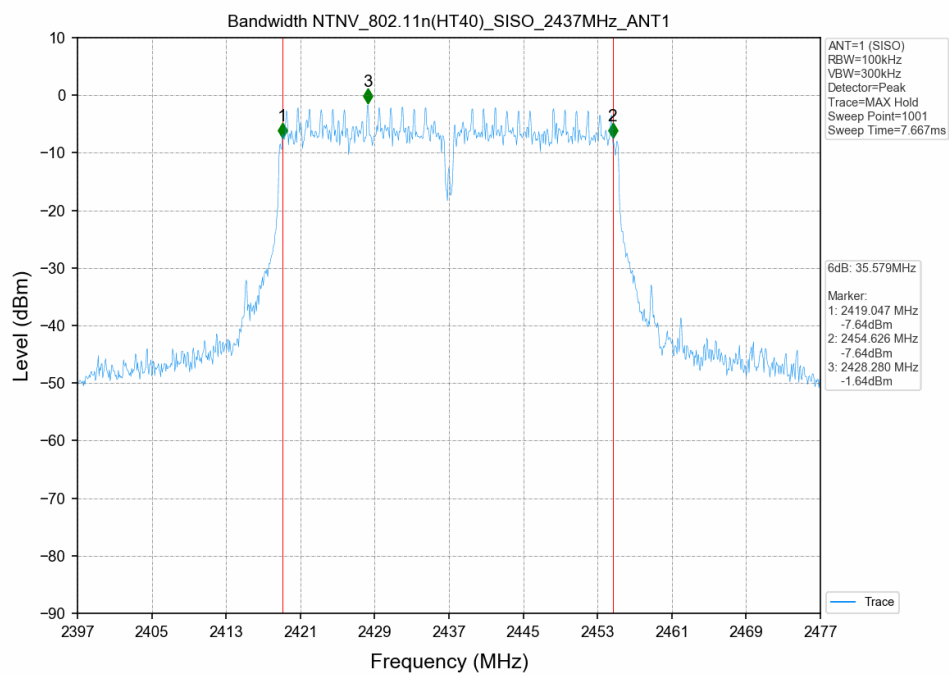
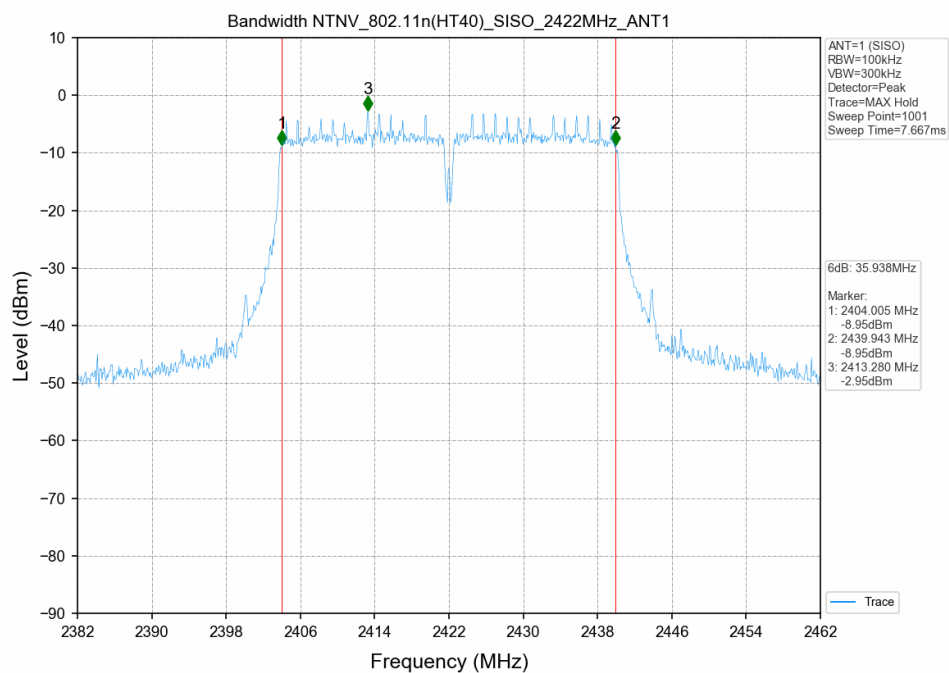
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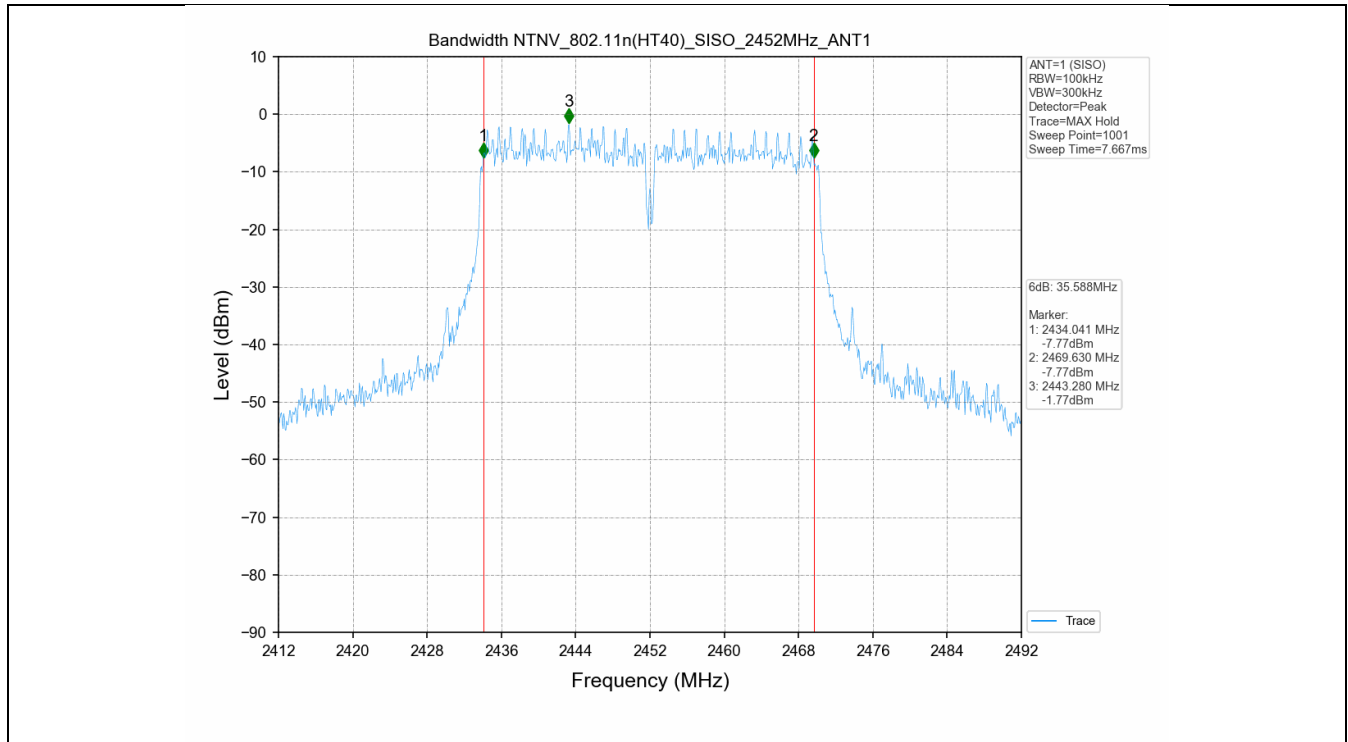




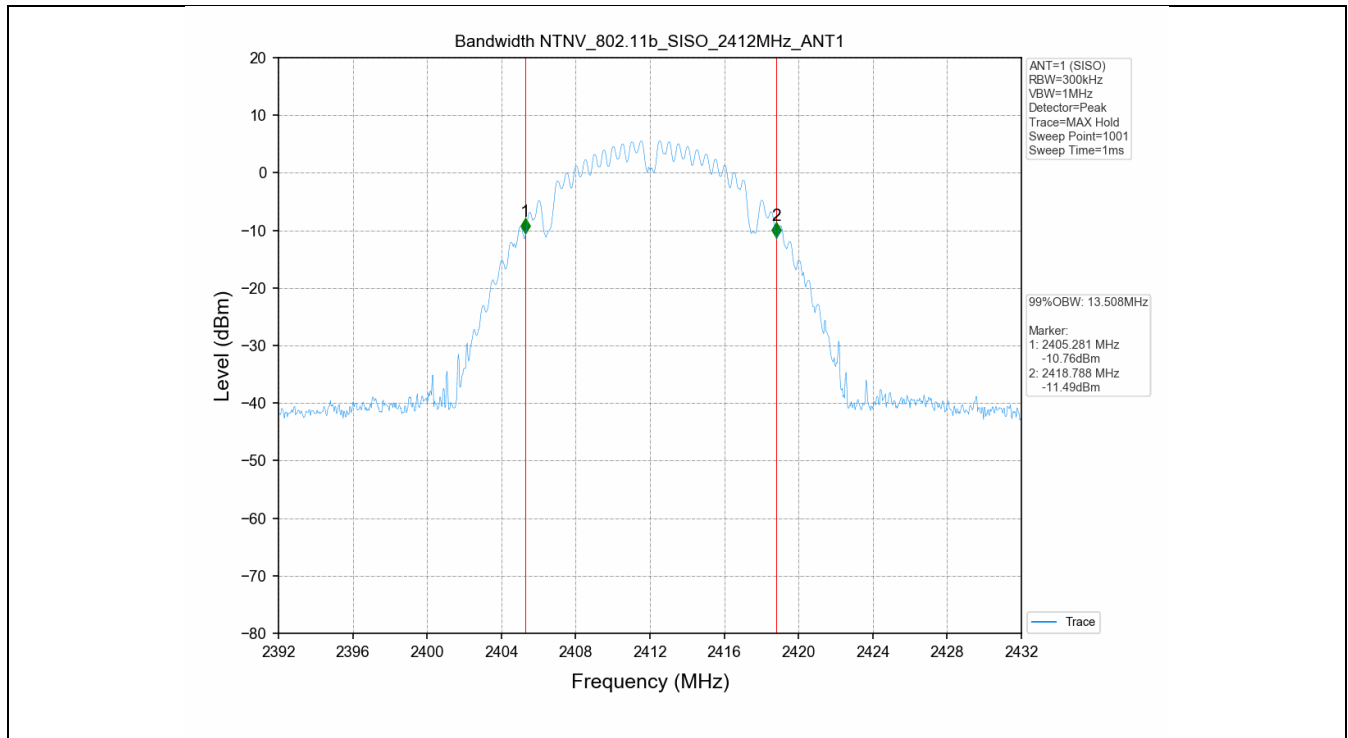


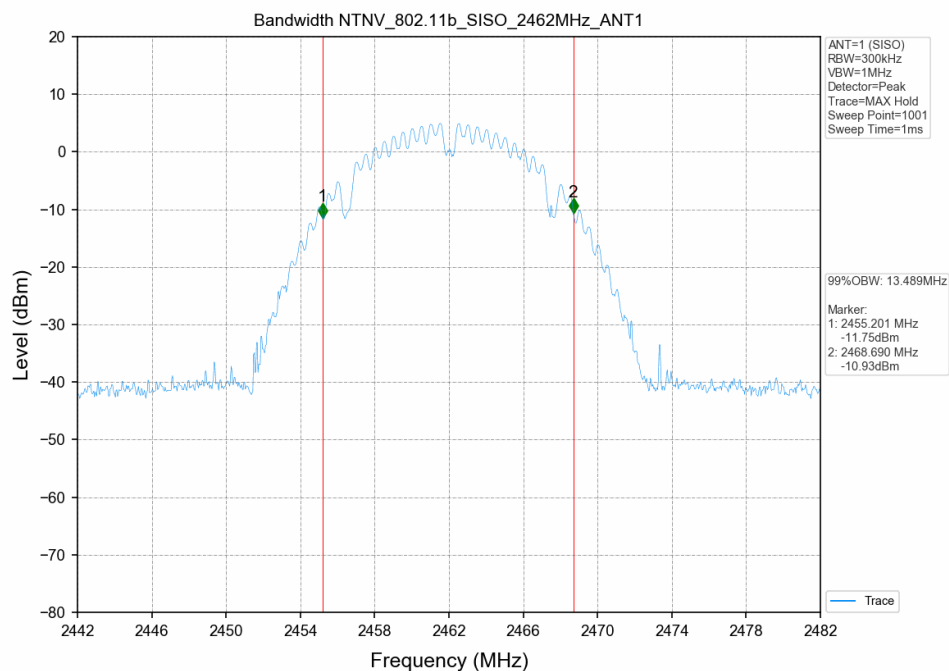
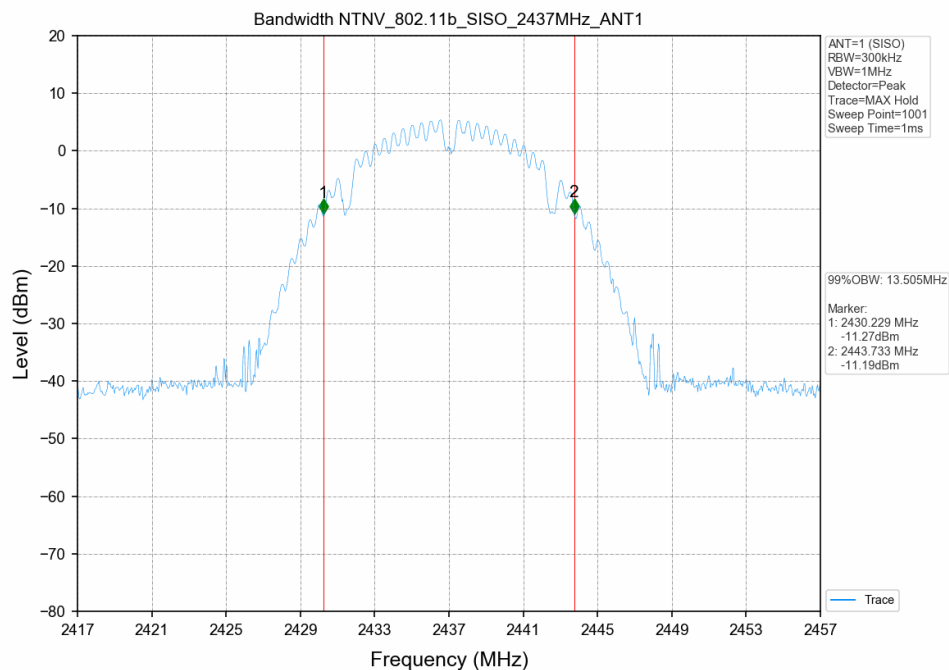
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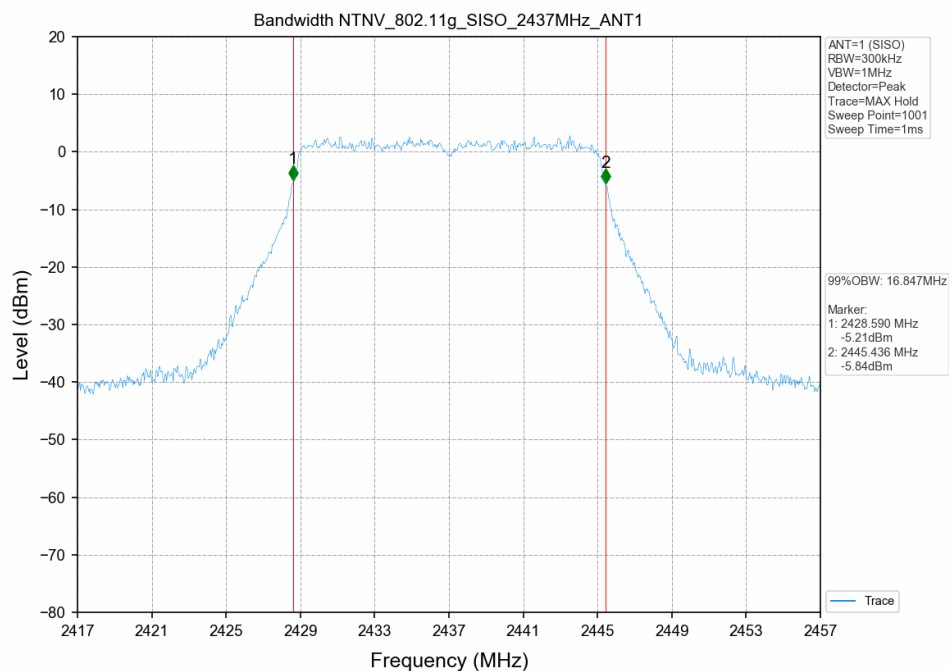
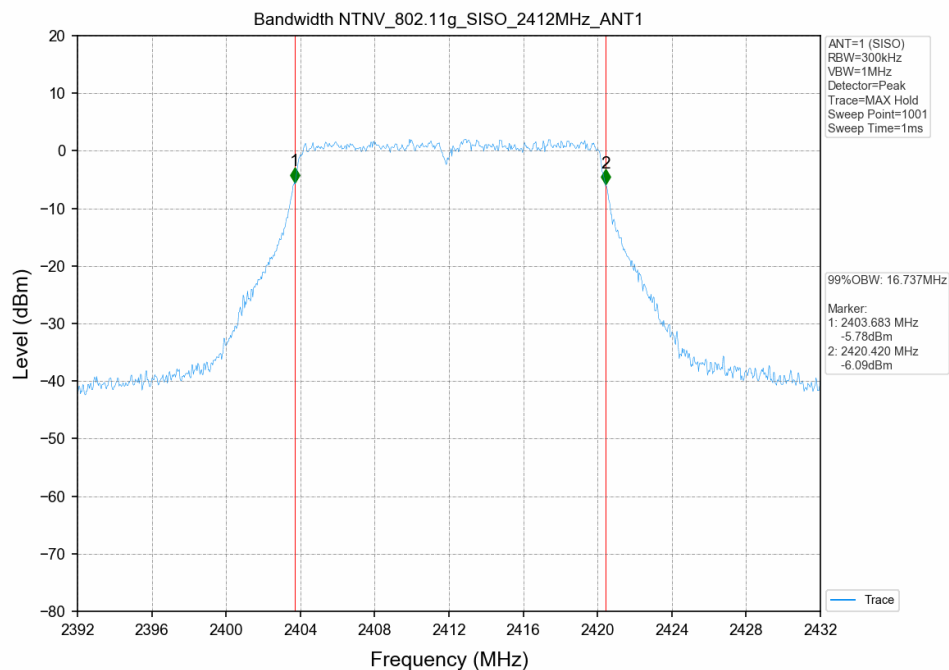


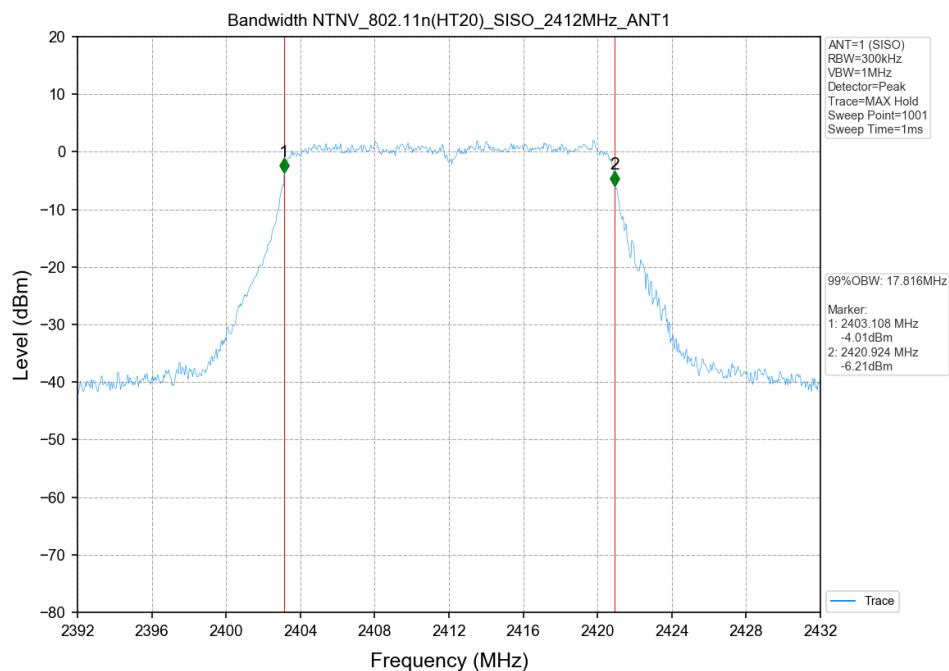
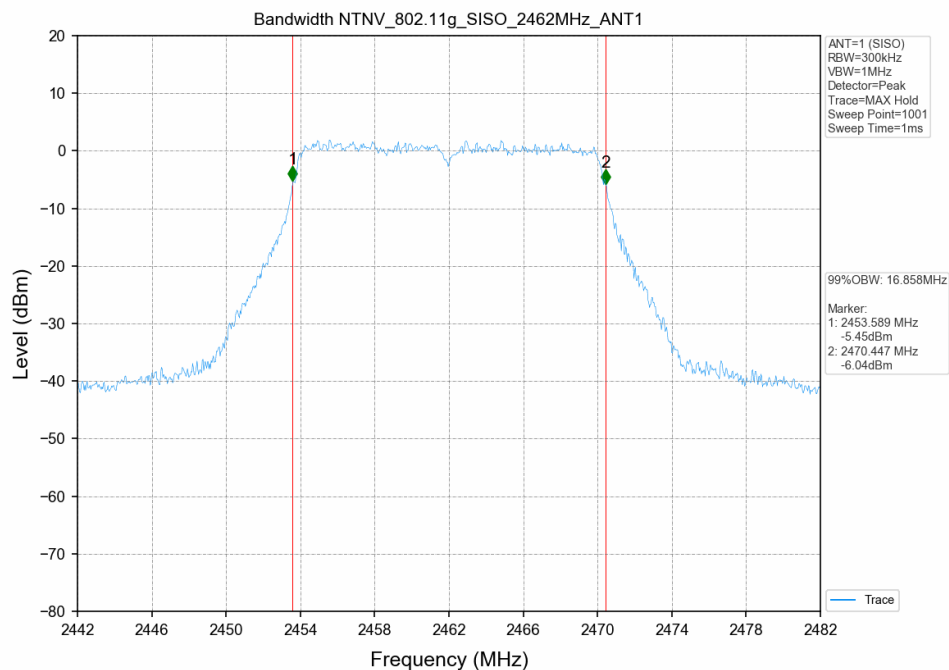


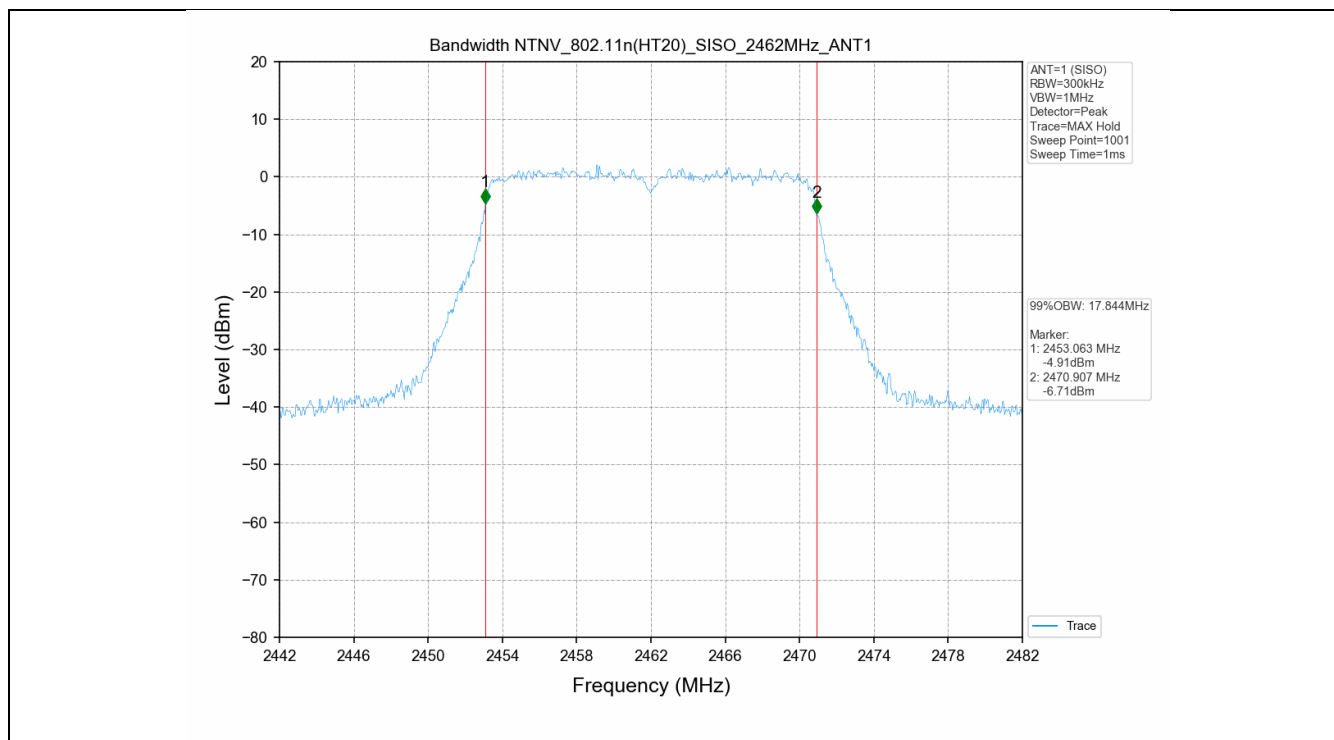
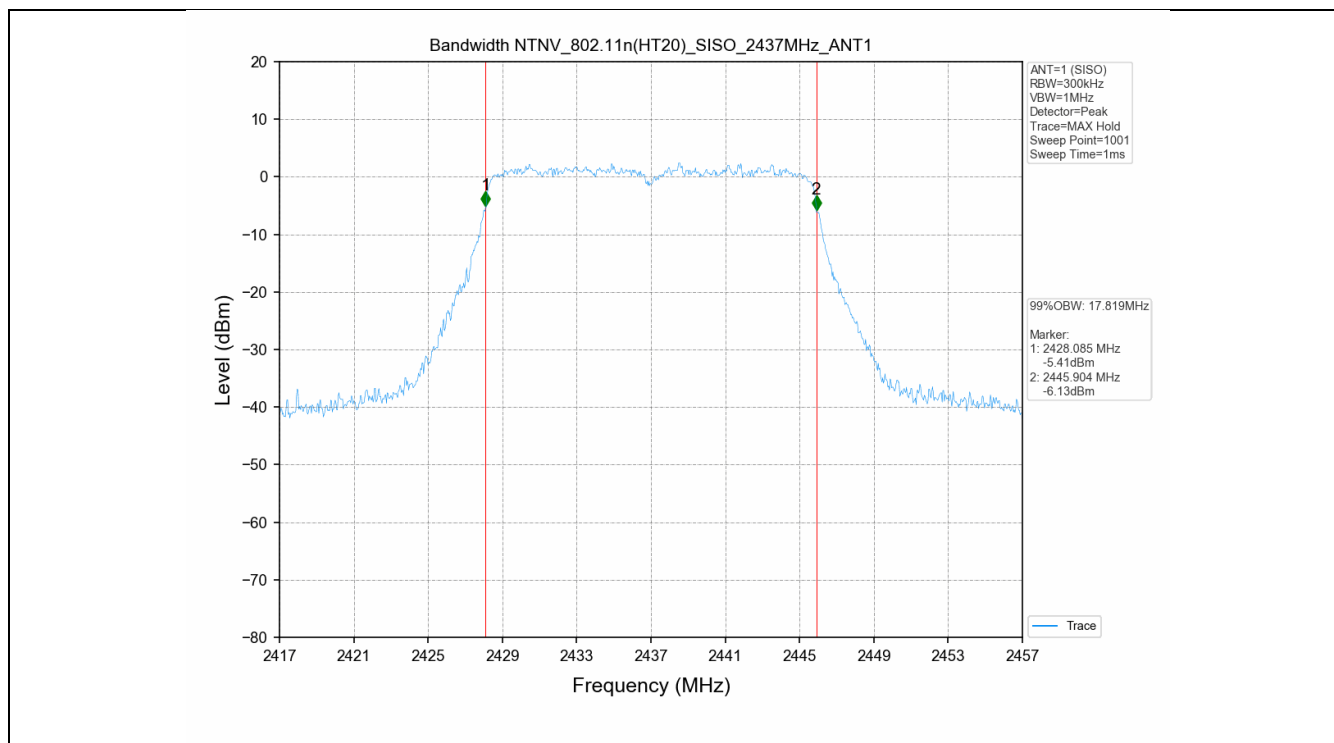
2.3 Test Graph - 99% Occupied Bandwidth

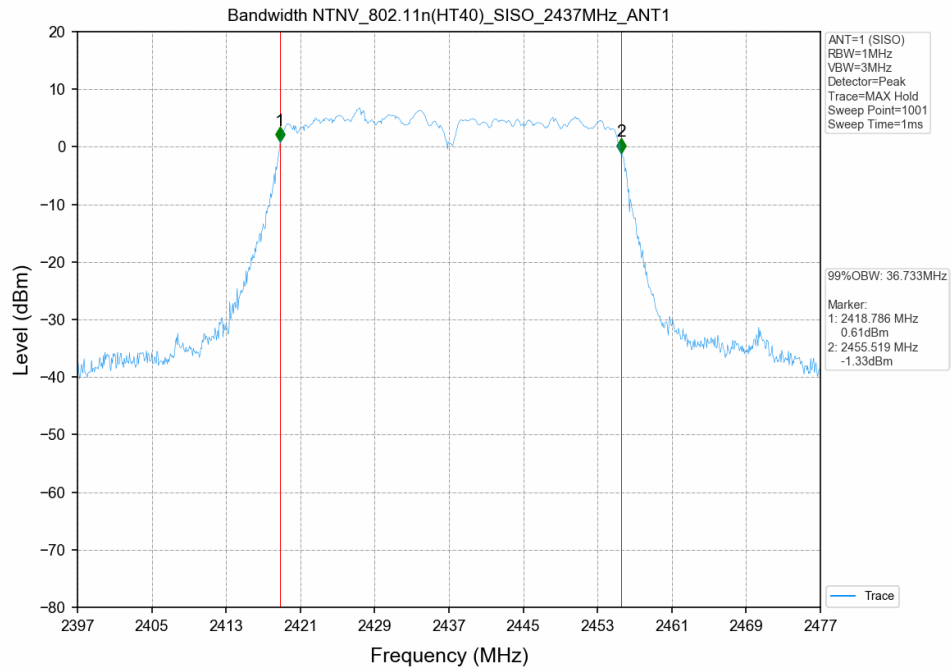
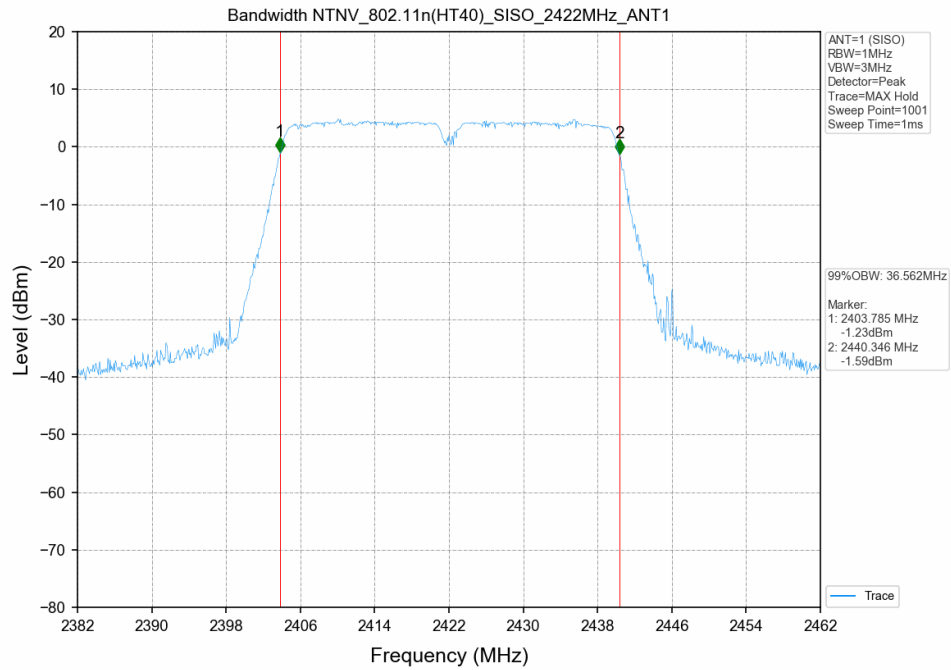


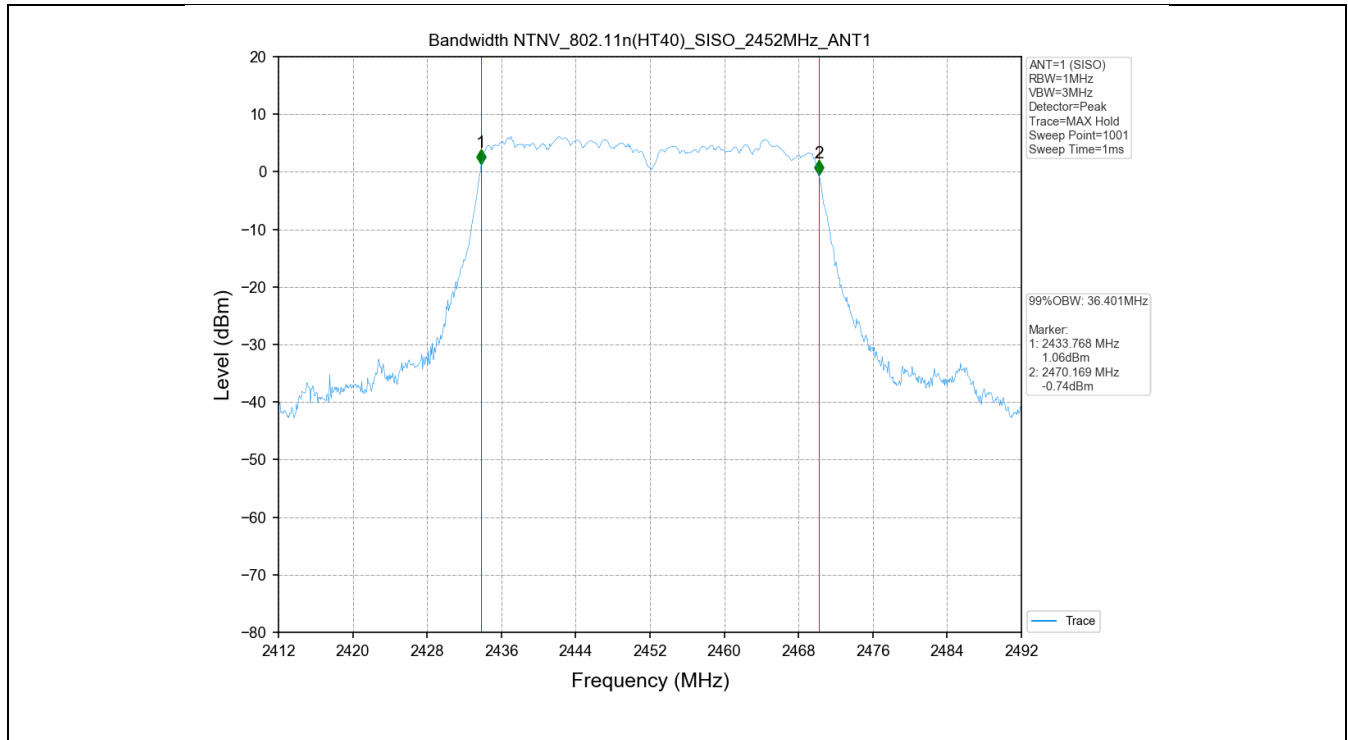










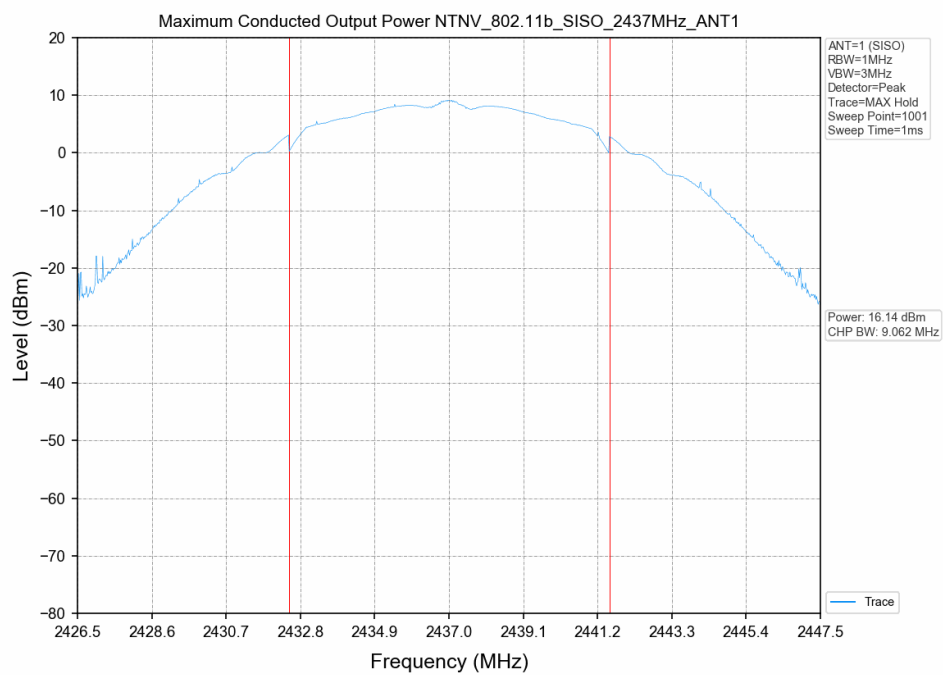
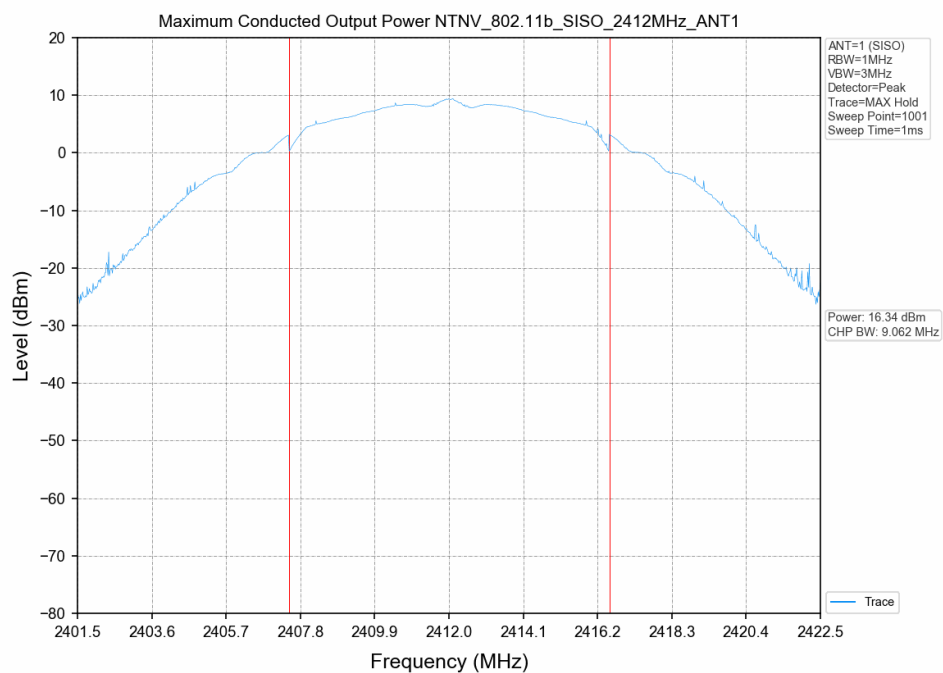


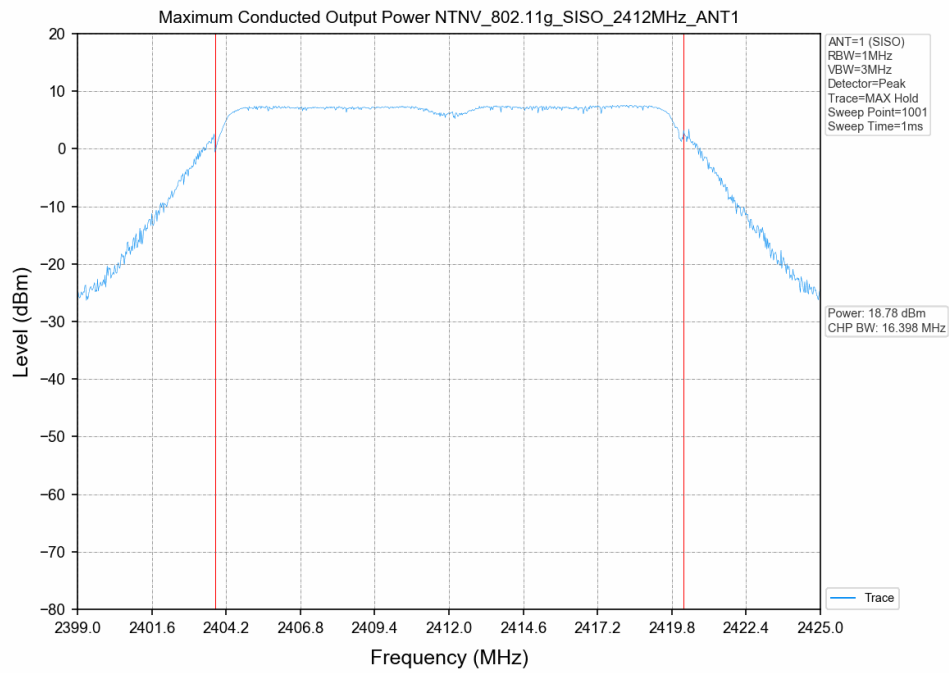
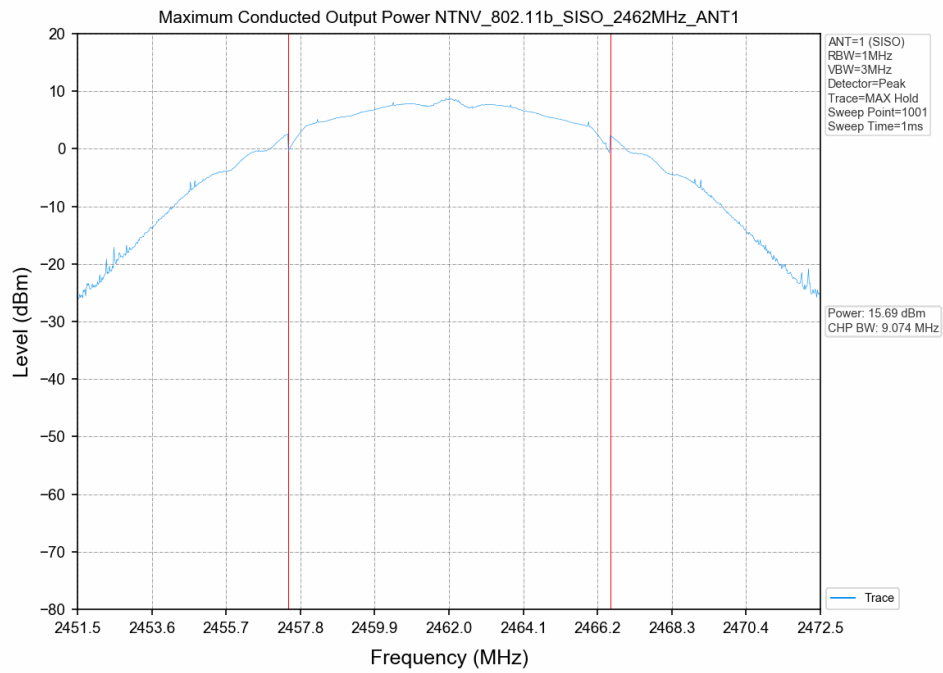
3. Maximum Conducted Output Power

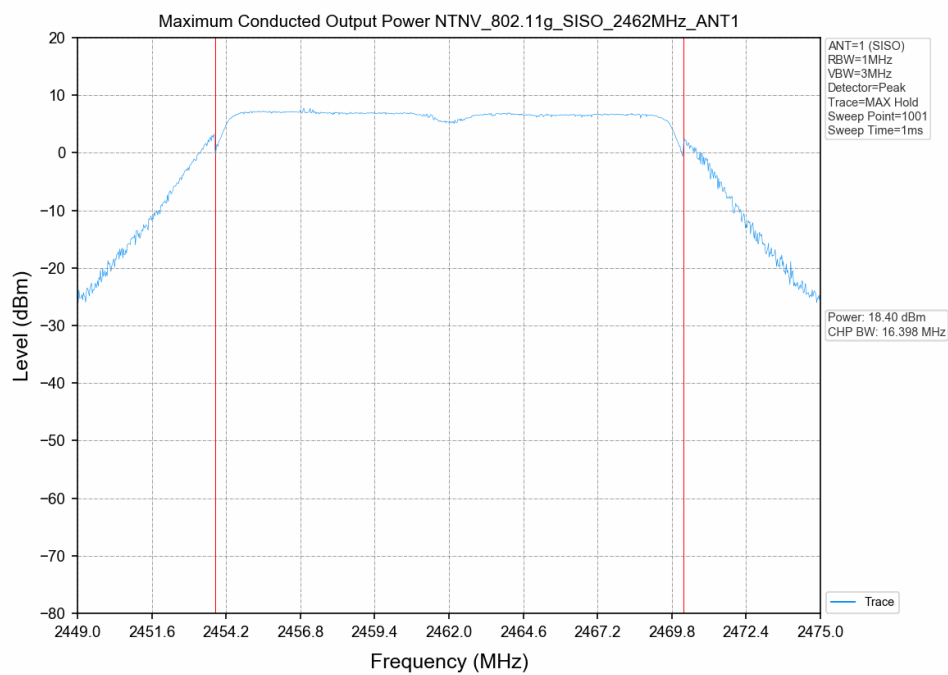
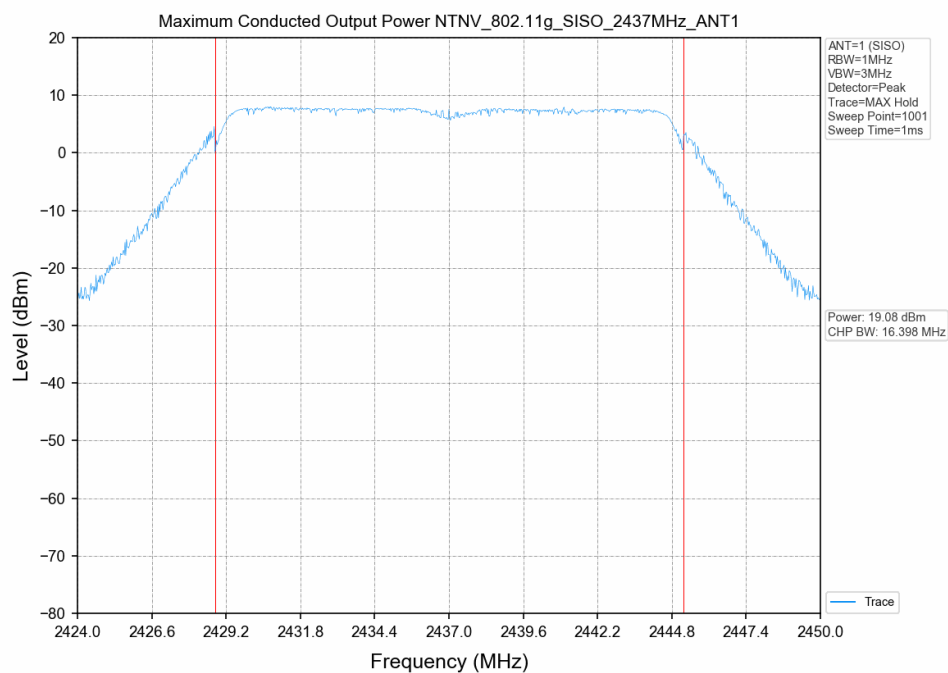
3.1 Test Result

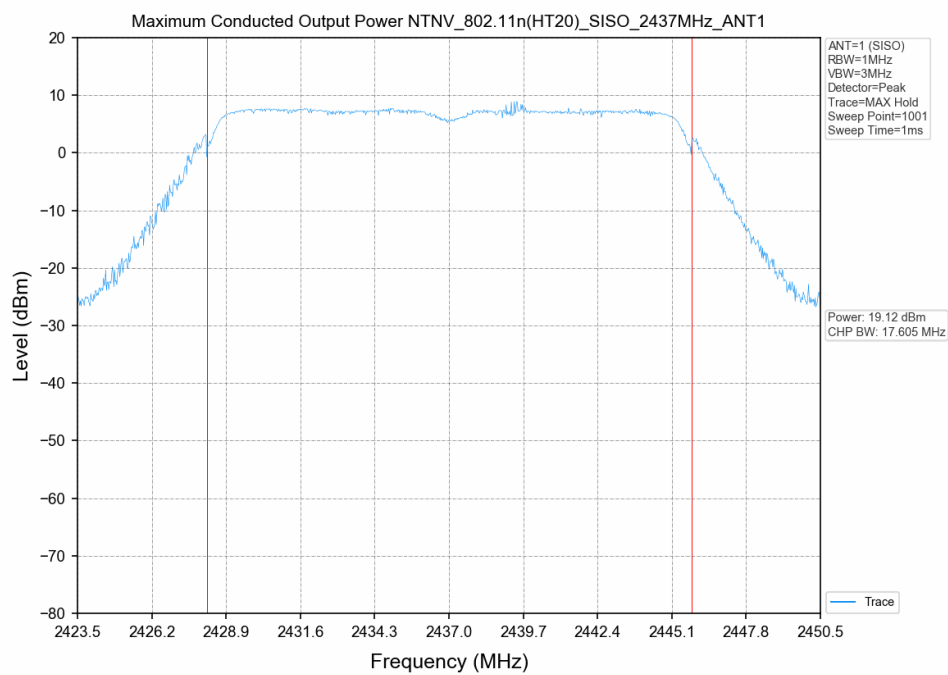
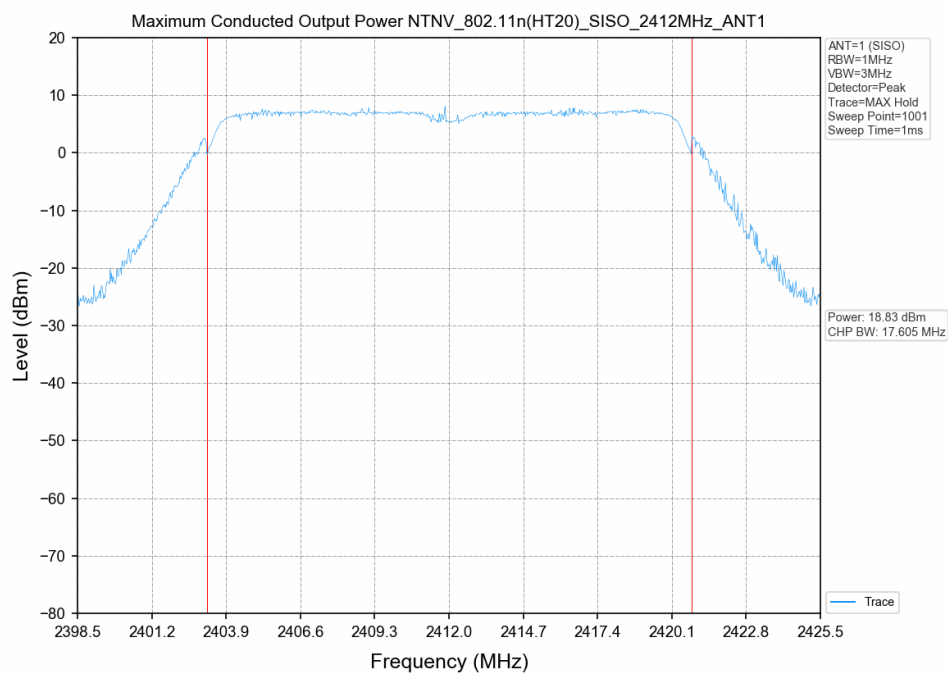
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	16.34	30	PASS
	2437	SISO	16.14	30	PASS
	2462	SISO	15.69	30	PASS
802.11g	2412	SISO	18.78	30	PASS
	2437	SISO	19.08	30	PASS
	2462	SISO	18.40	30	PASS
802.11n(HT20)	2412	SISO	18.83	30	PASS
	2437	SISO	19.12	30	PASS
	2462	SISO	18.28	30	PASS
802.11n(HT40)	2422	SISO	19.16	30	PASS
	2437	SISO	19.54	30	PASS
	2452	SISO	19.43	30	PASS

3.2 Test Graph



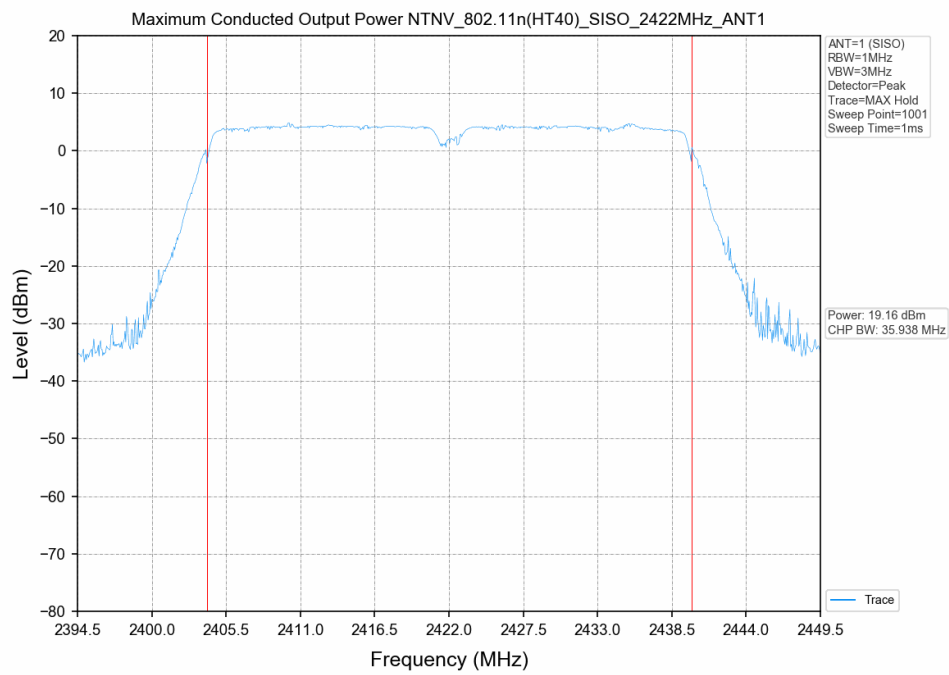
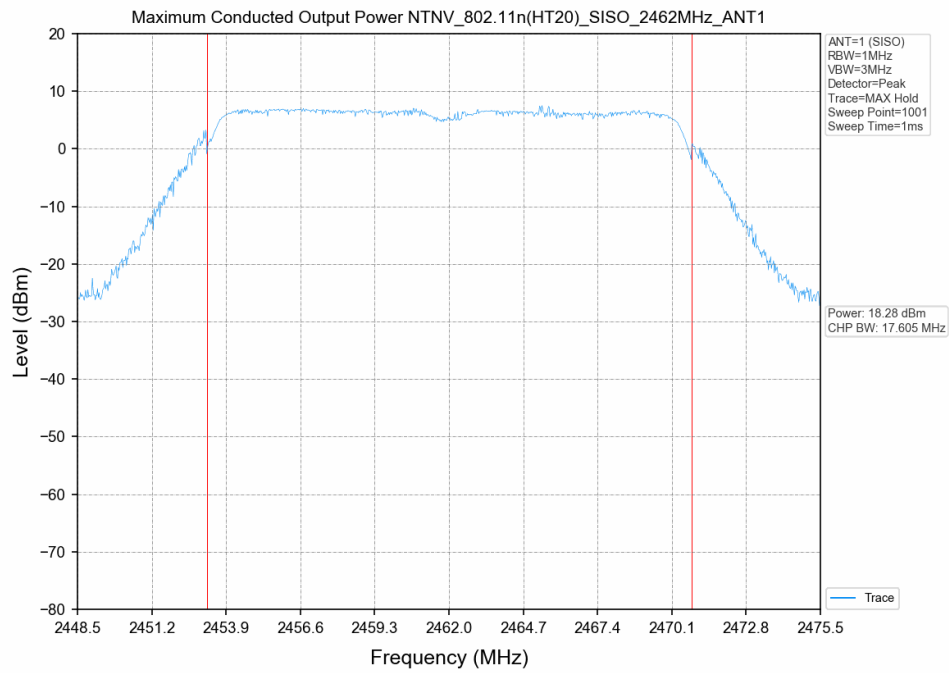


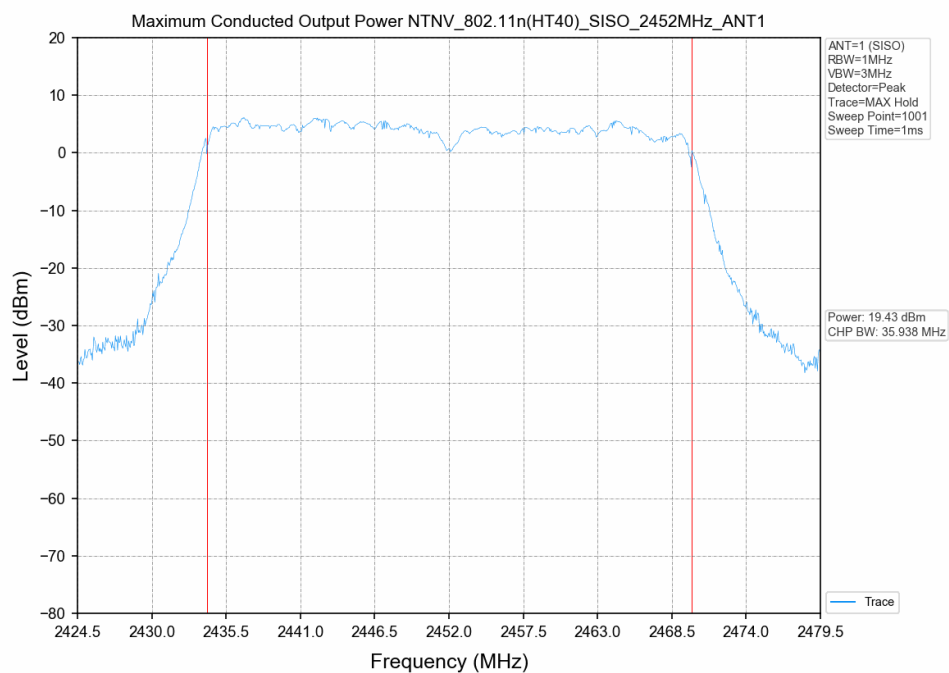
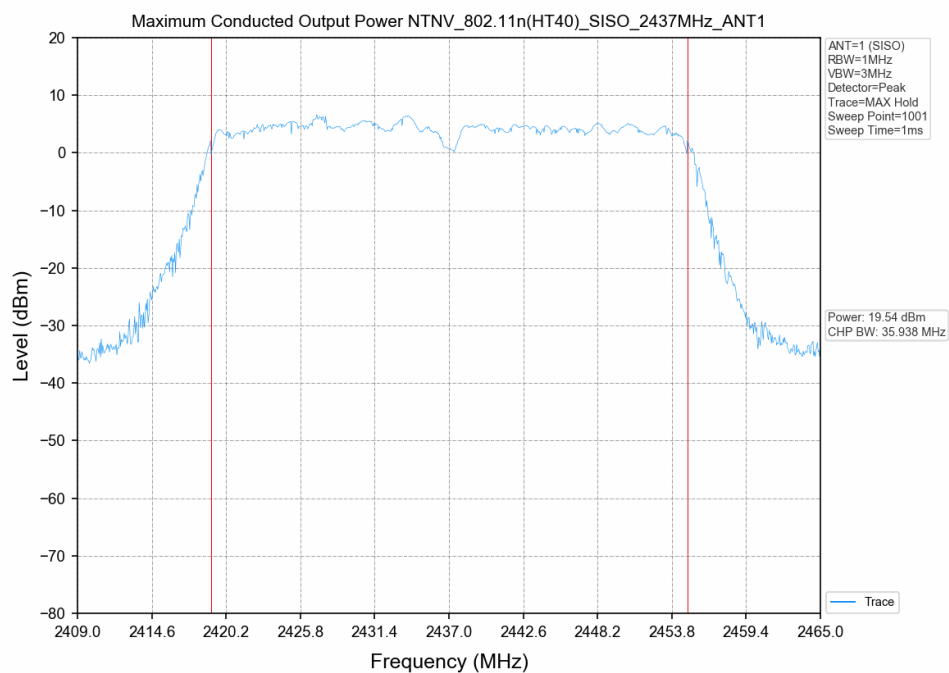






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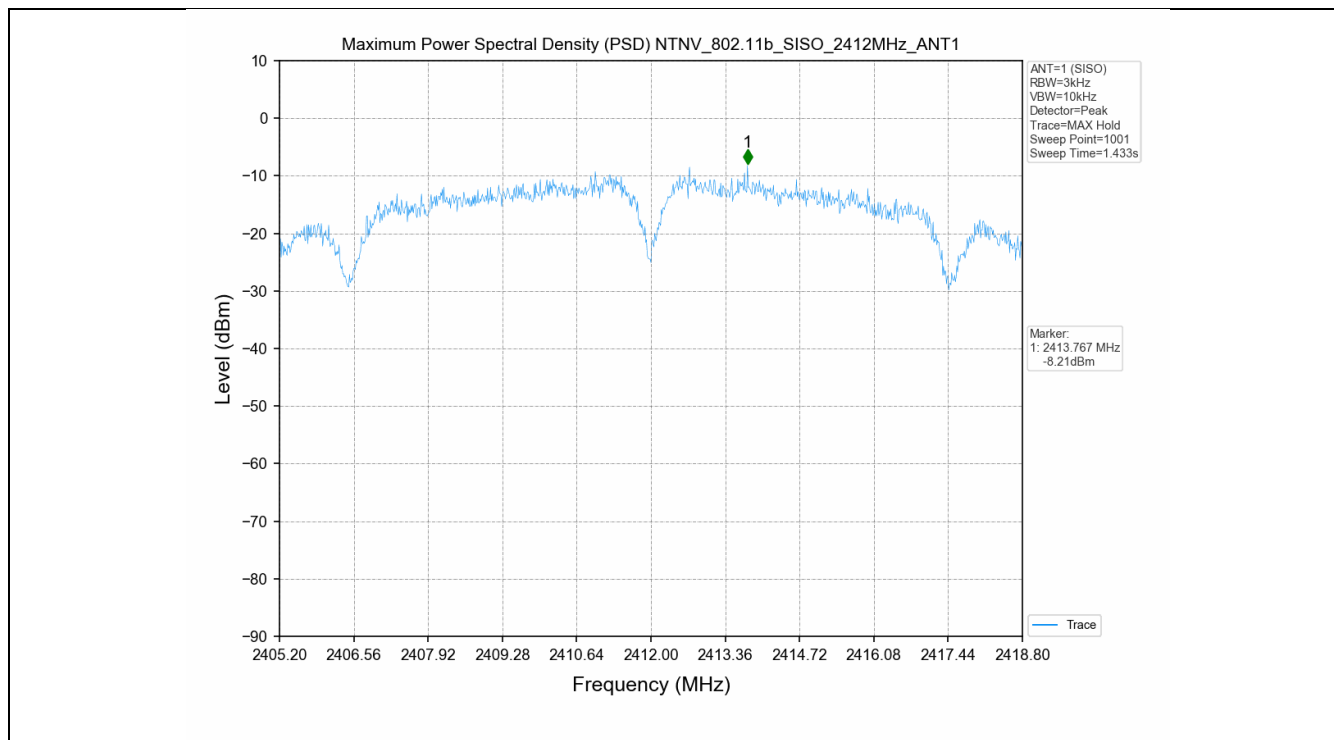


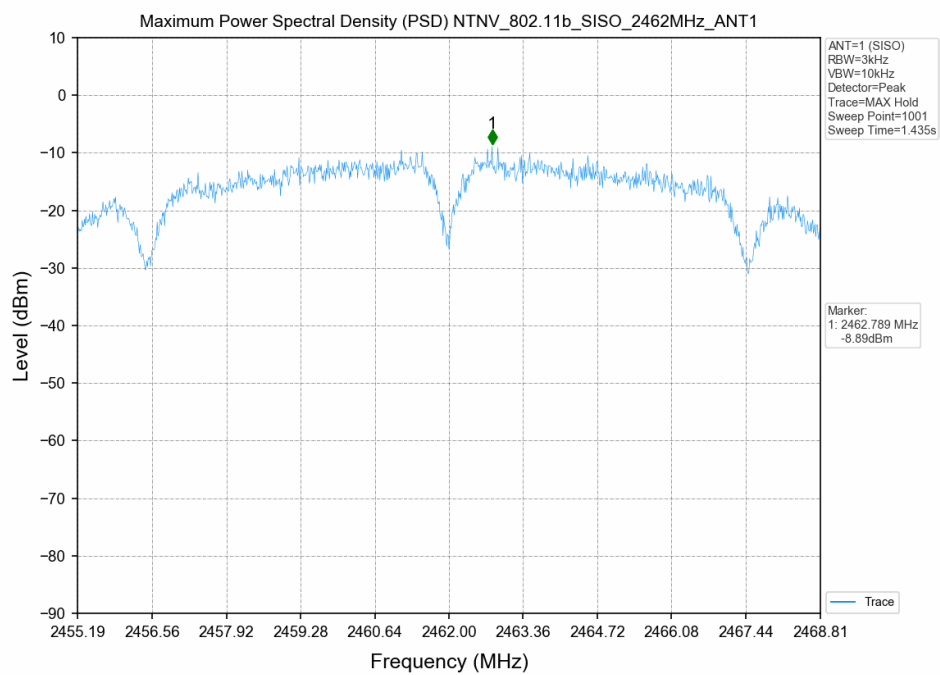
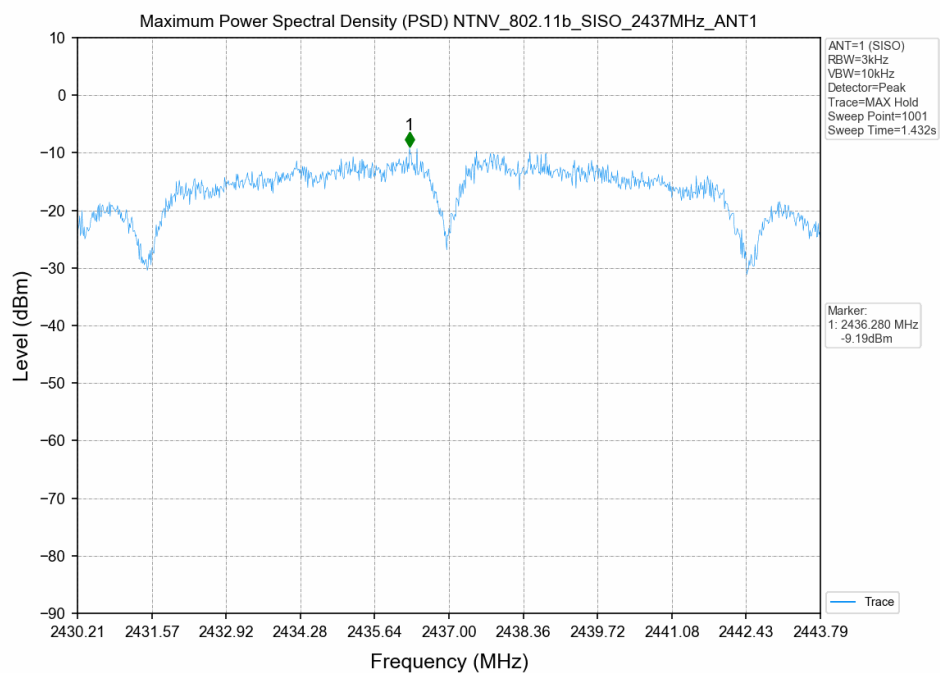
4. Maximum Power Spectral Density (PSD)

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	-8.21	≤8	PASS
	2437	SISO	-9.19	≤8	PASS
	2462	SISO	-8.89	≤8	PASS
802.11g	2412	SISO	-14.40	≤8	PASS
	2437	SISO	-13.56	≤8	PASS
	2462	SISO	-13.21	≤8	PASS
802.11n(HT20)	2412	SISO	-13.61	≤8	PASS
	2437	SISO	-13.82	≤8	PASS
	2462	SISO	-12.62	≤8	PASS
802.11n(HT40)	2422	SISO	-16.07	≤8	PASS
	2437	SISO	-17.29	≤8	PASS
	2452	SISO	-15.85	≤8	PASS

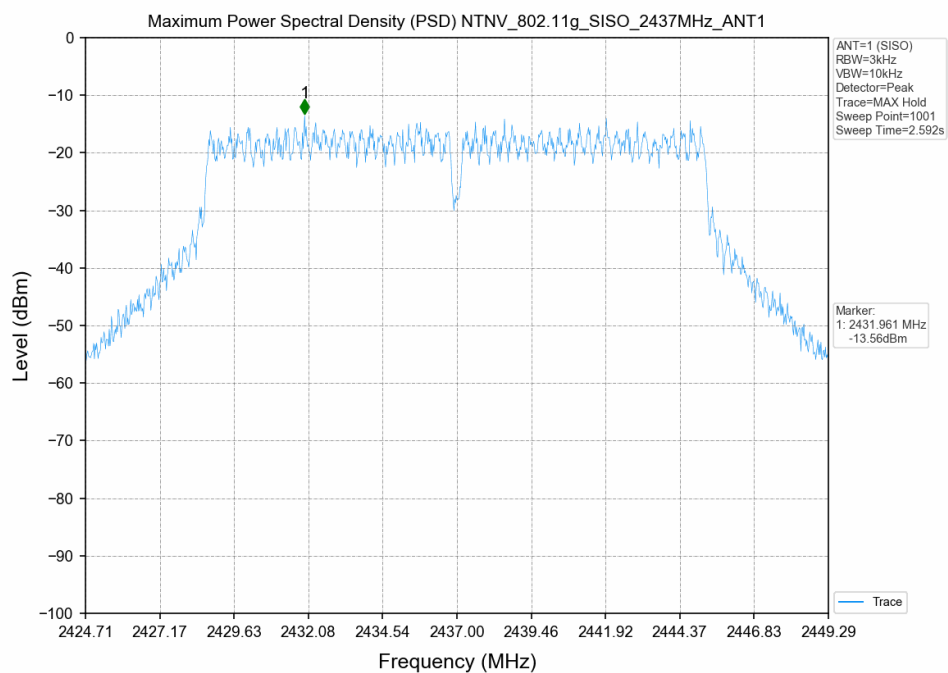
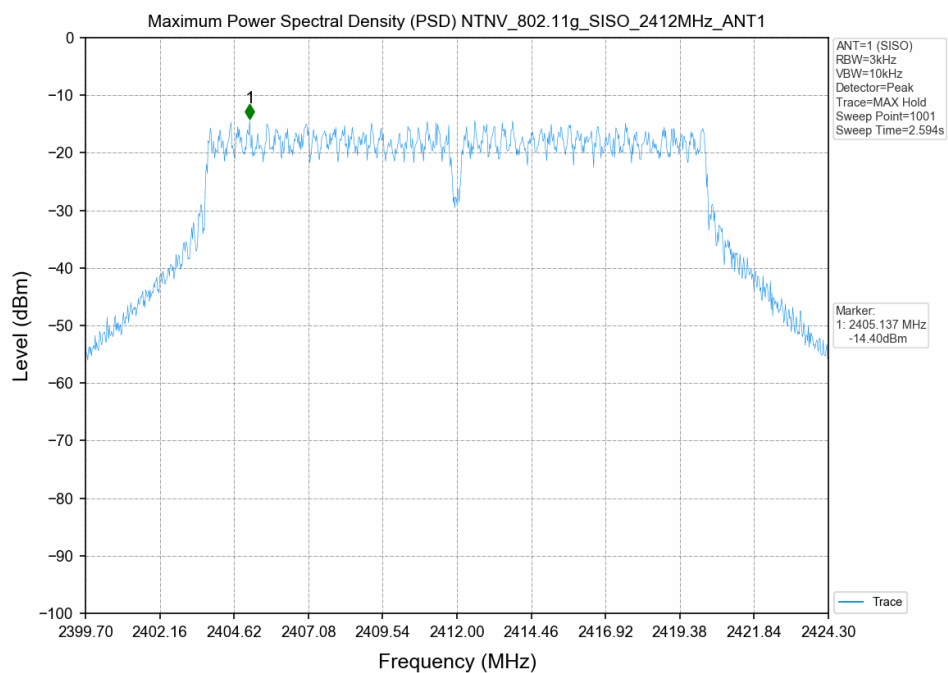
4.2 Test Graph

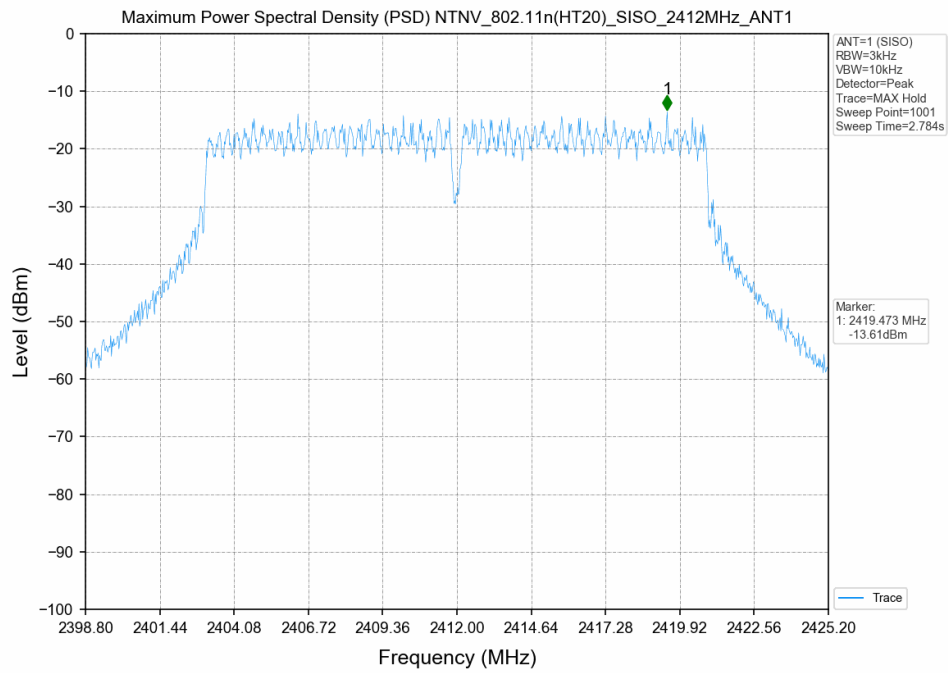
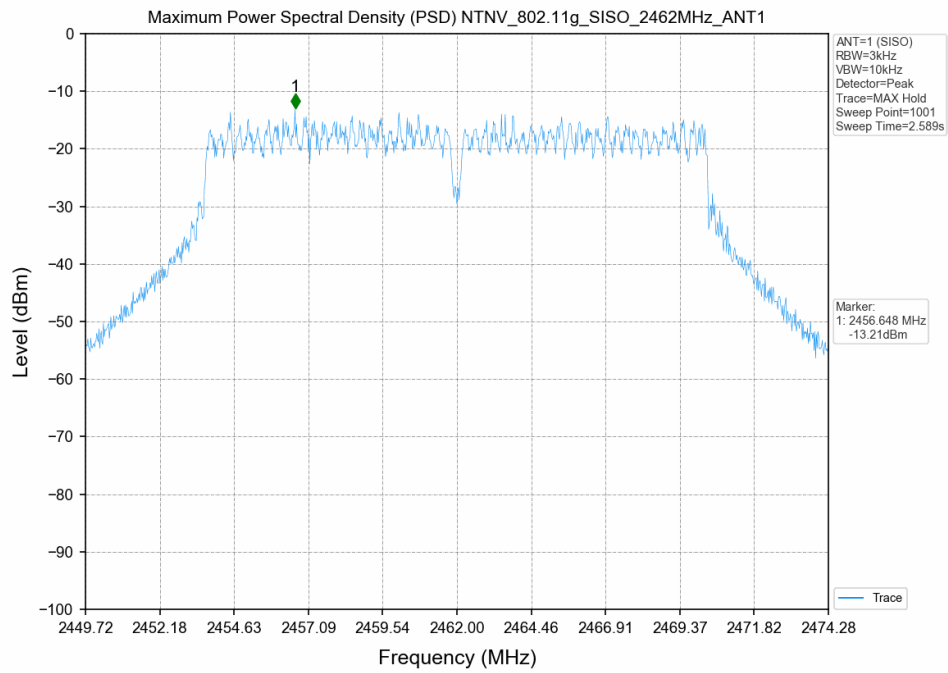


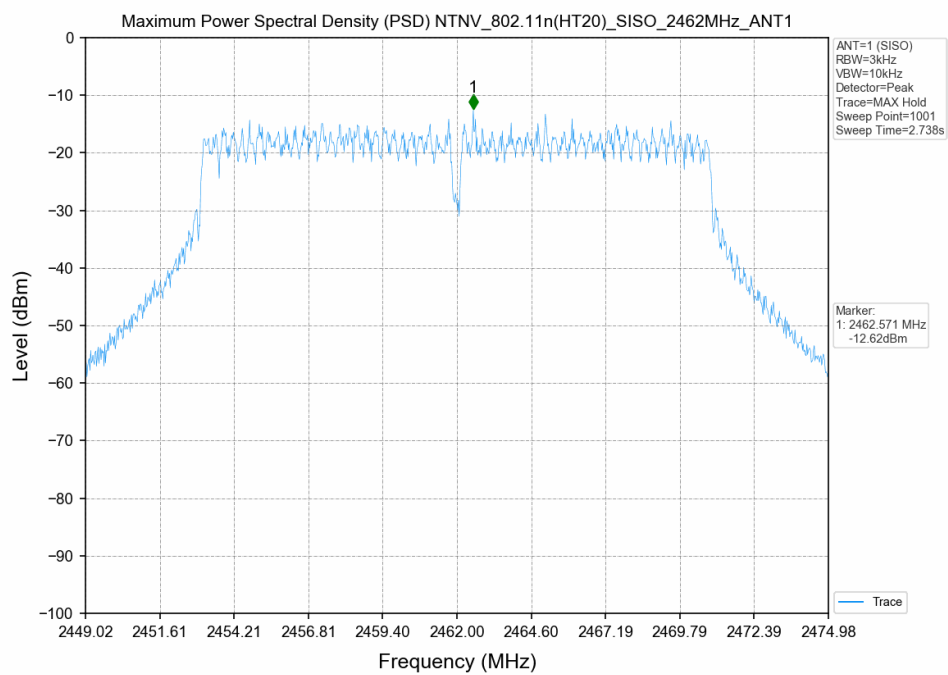
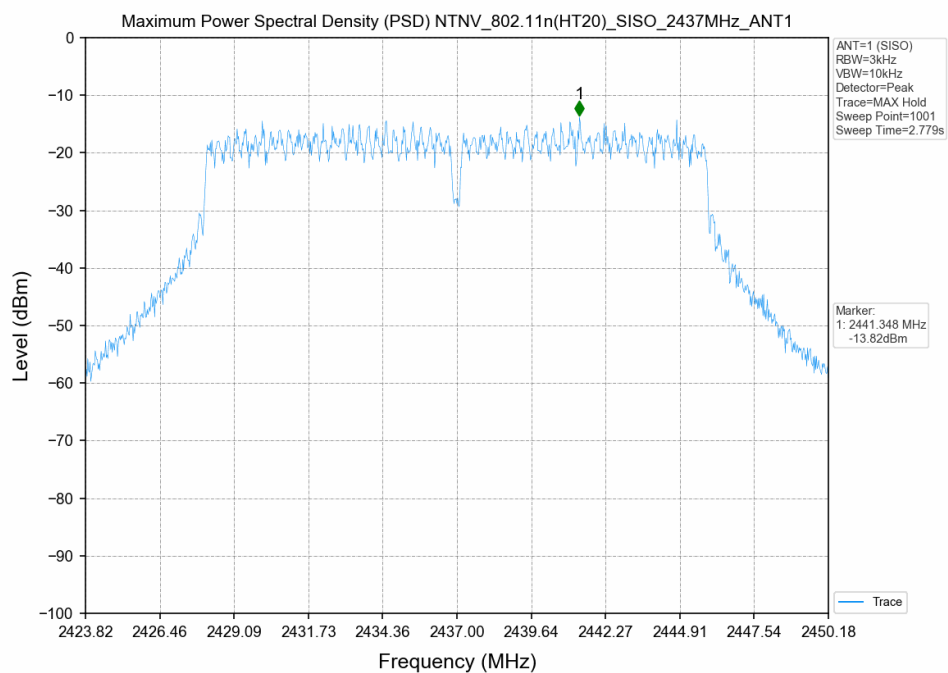




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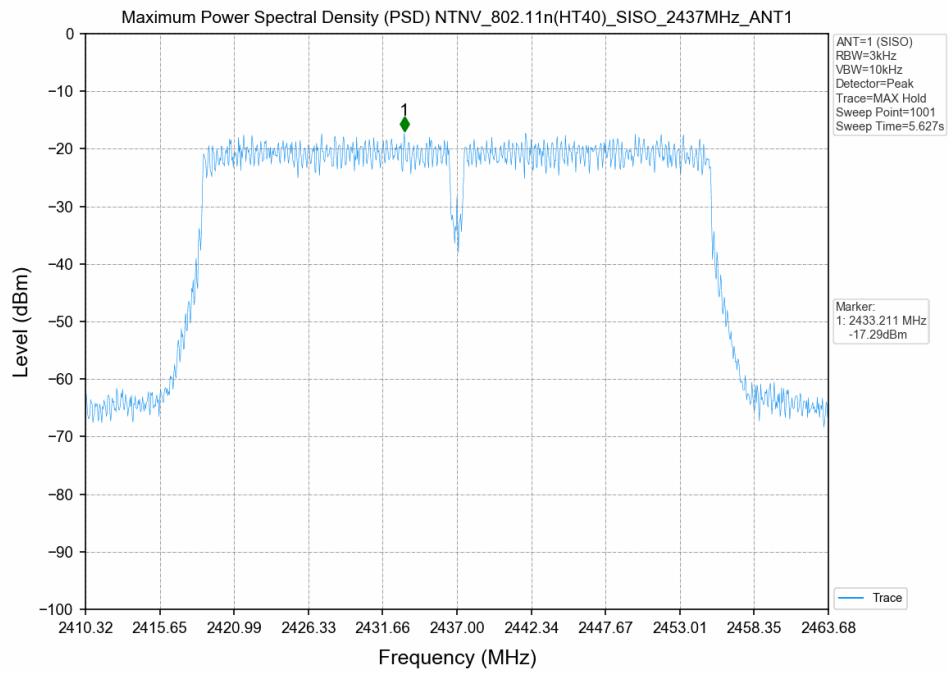
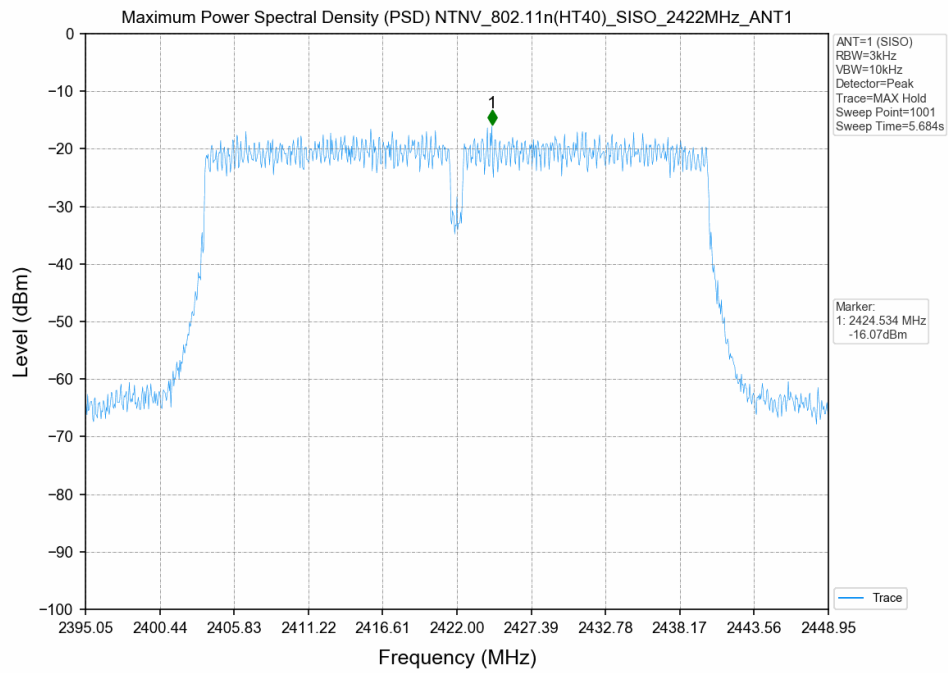


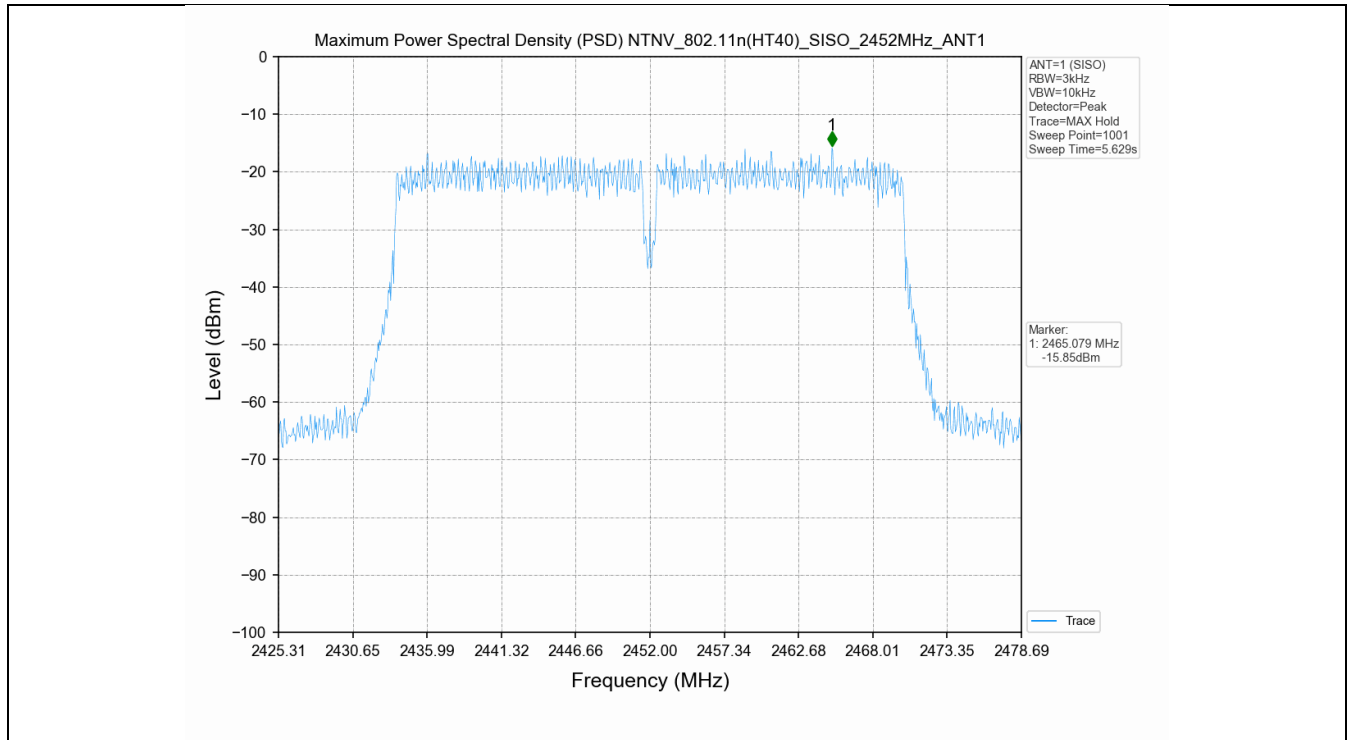






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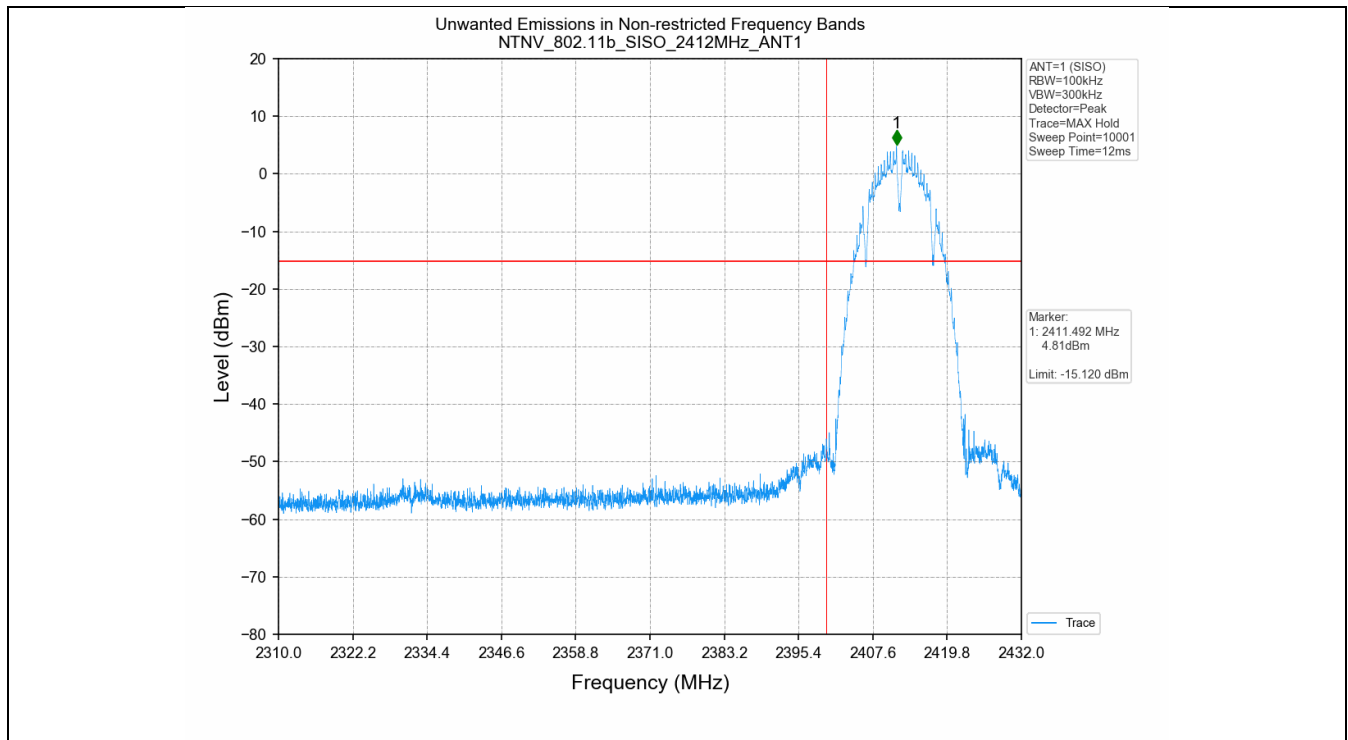
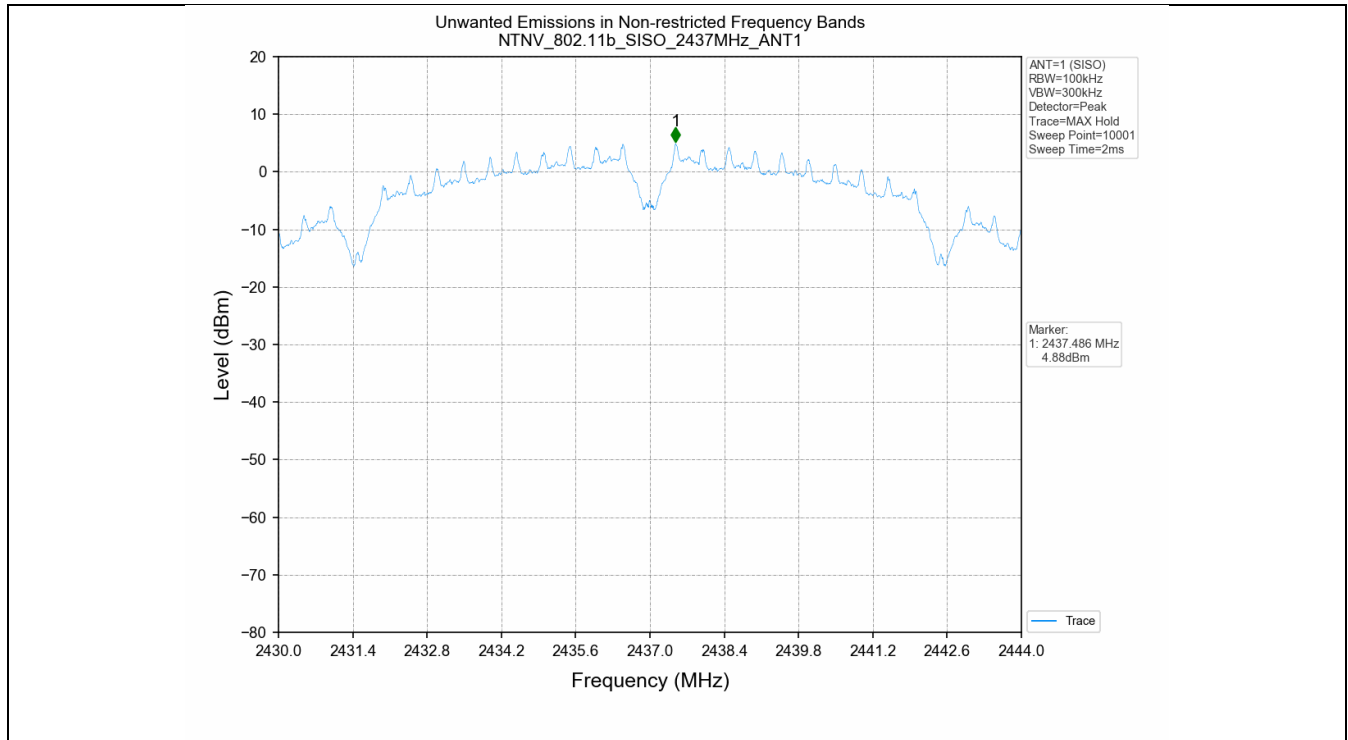


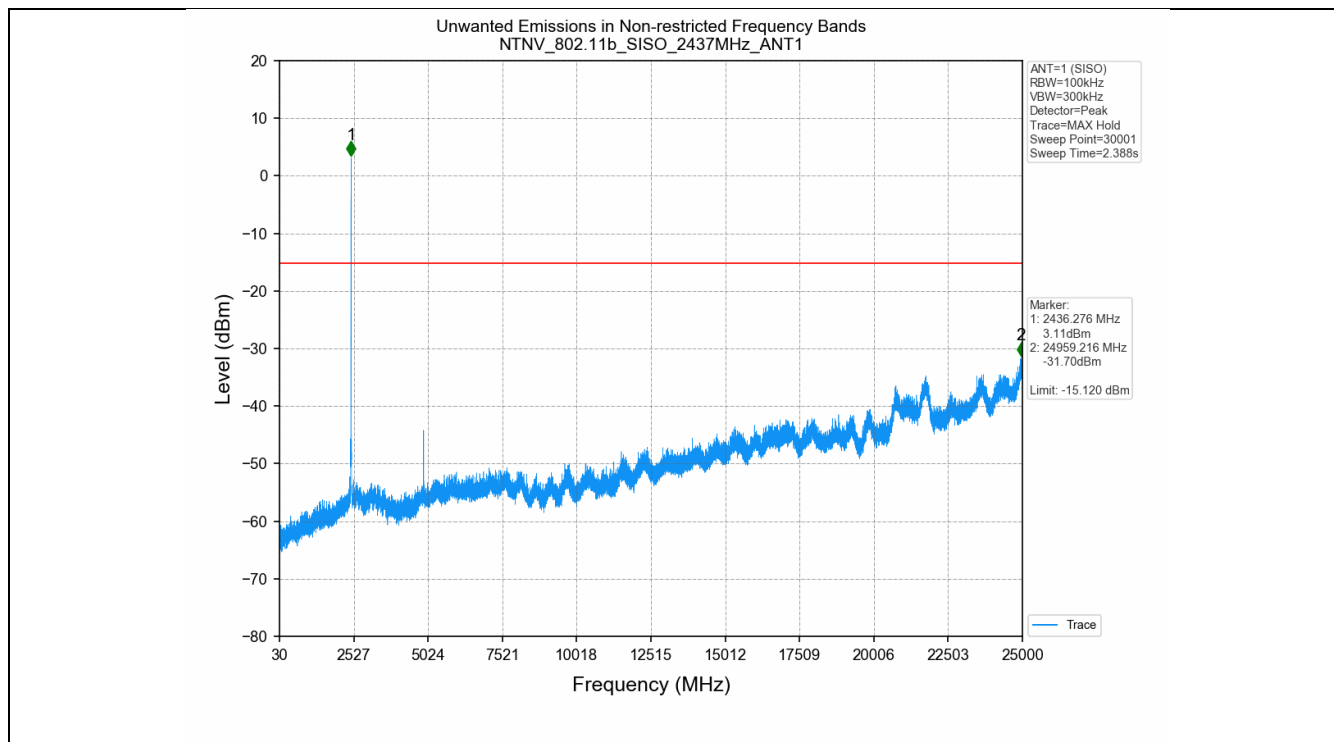
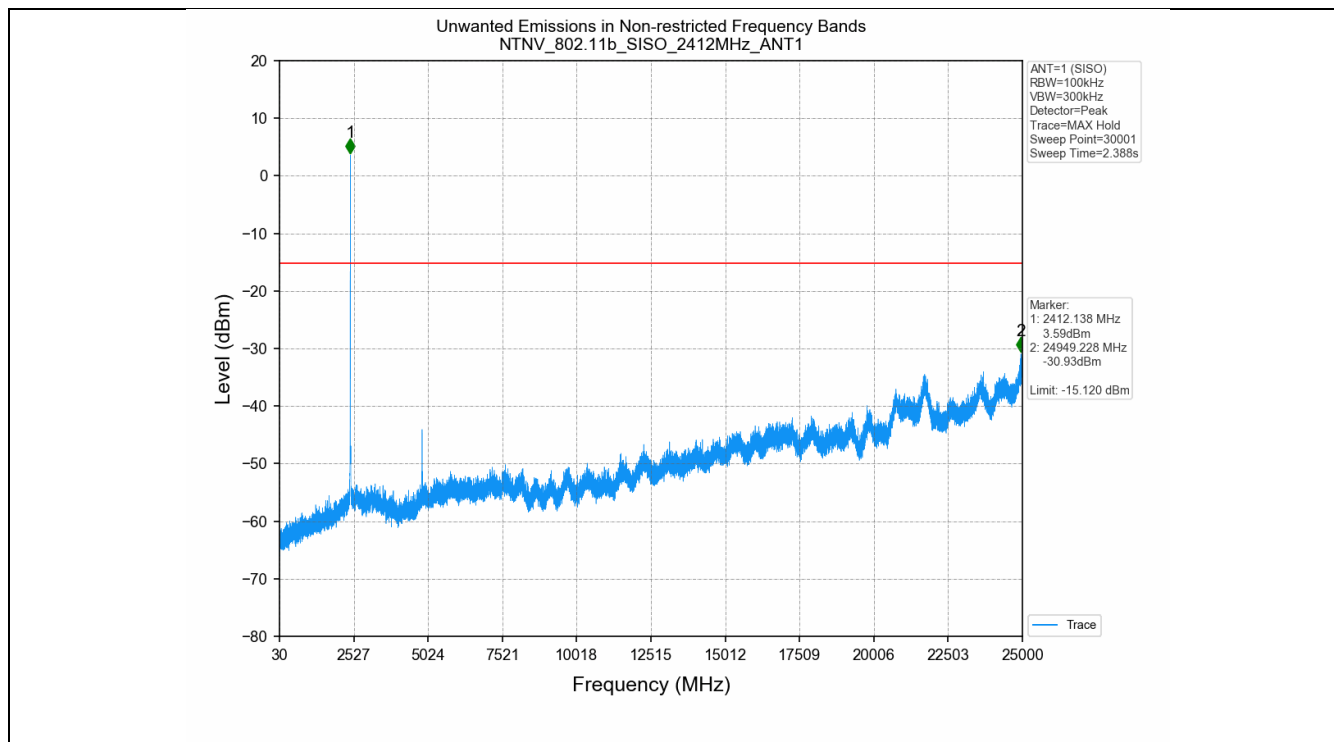
5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBc)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
802.11g	2412	SISO	1	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
	2452	SISO	1	Refer to test graph	-20	PASS

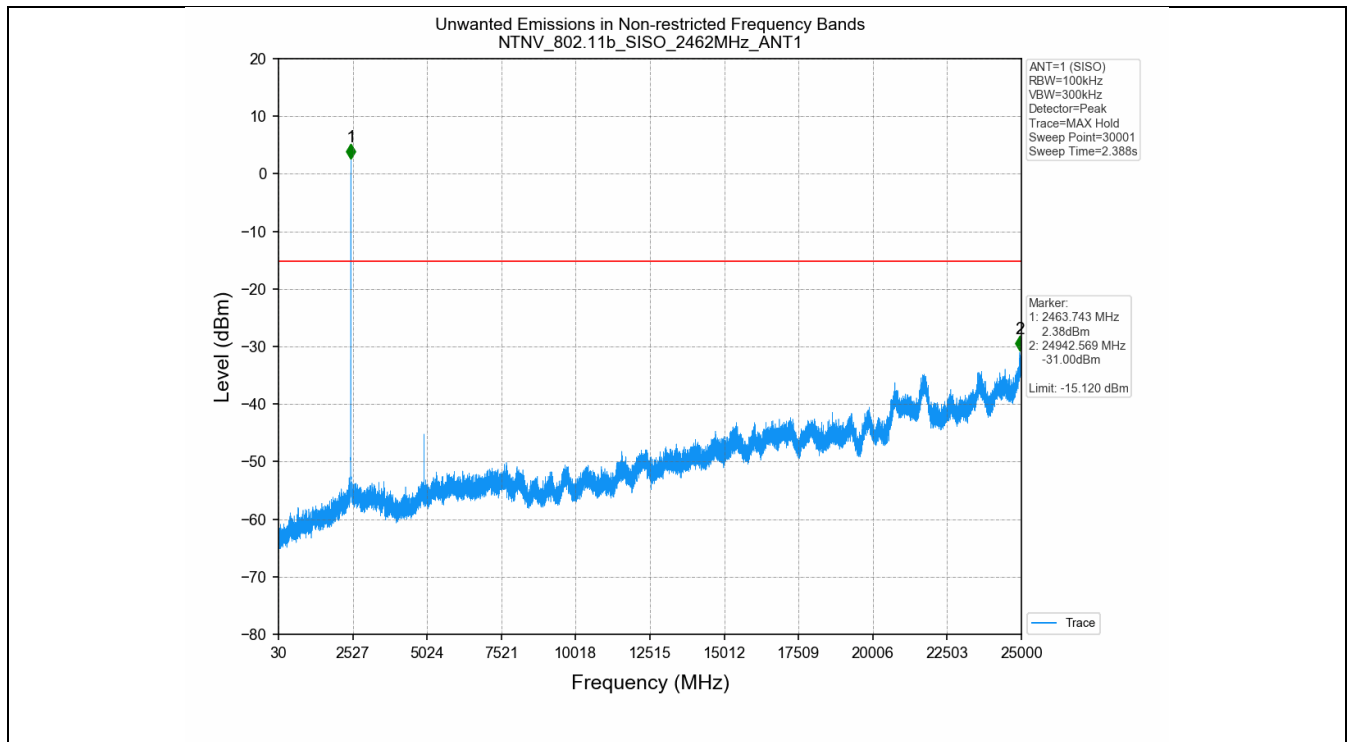
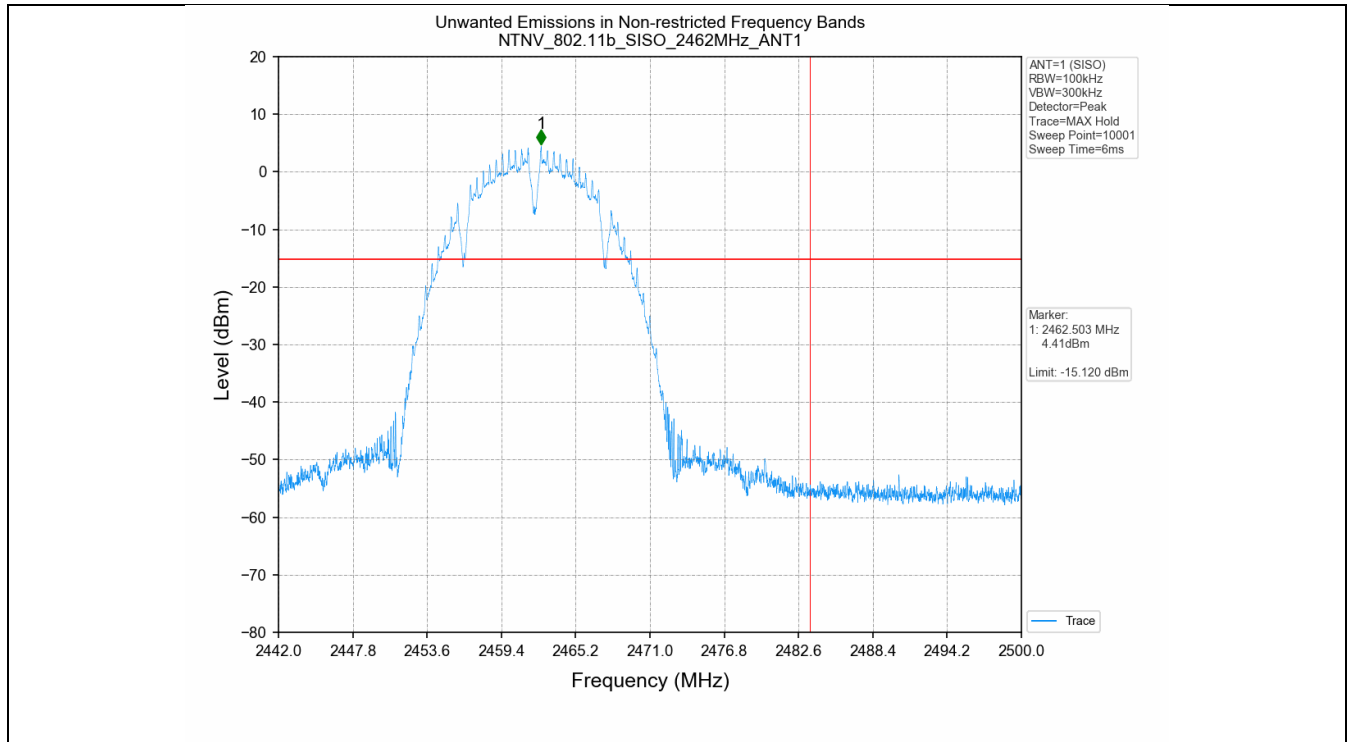
5.2 Test Graph





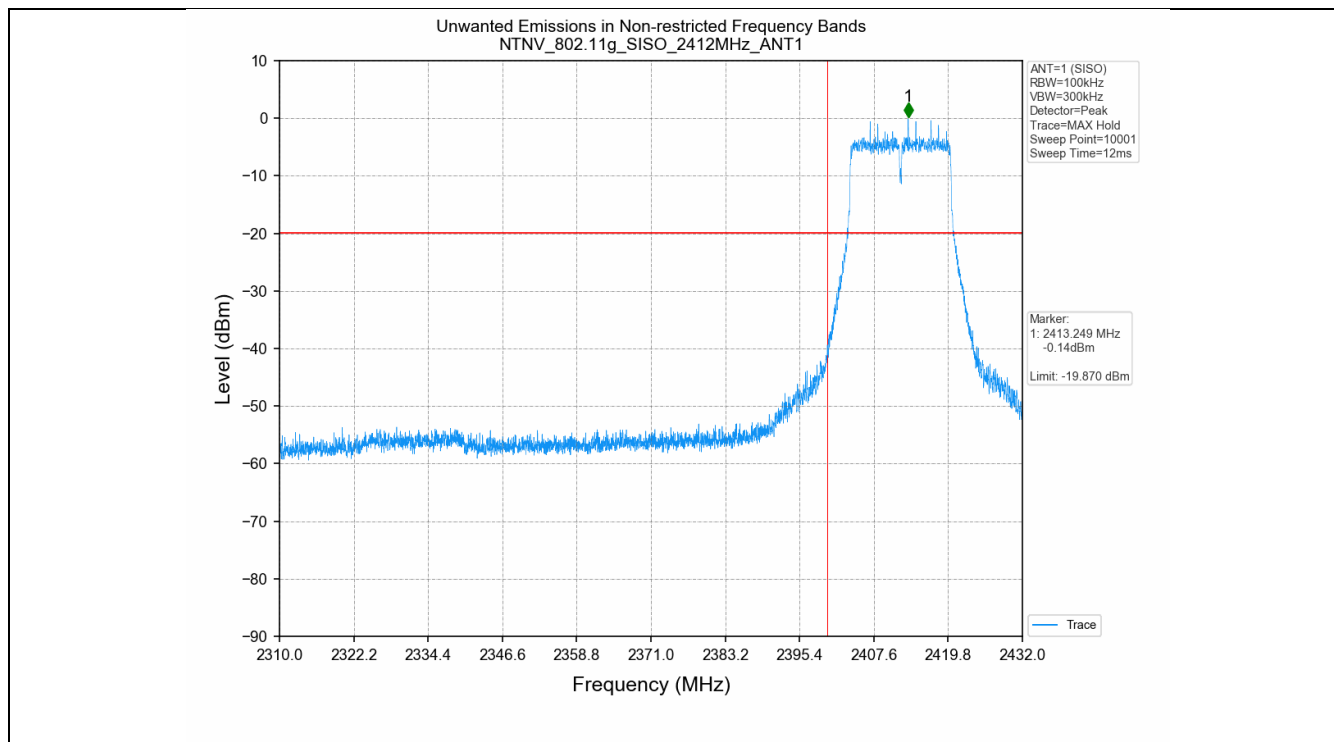
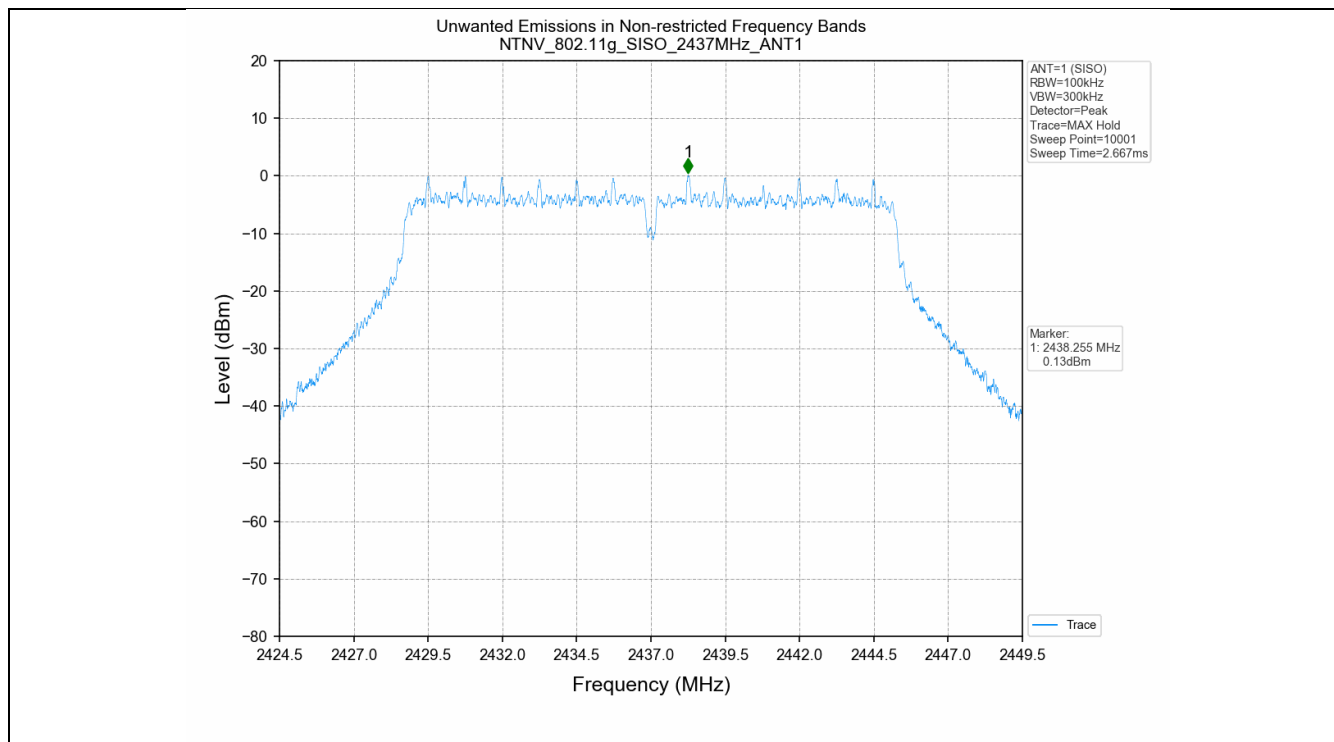


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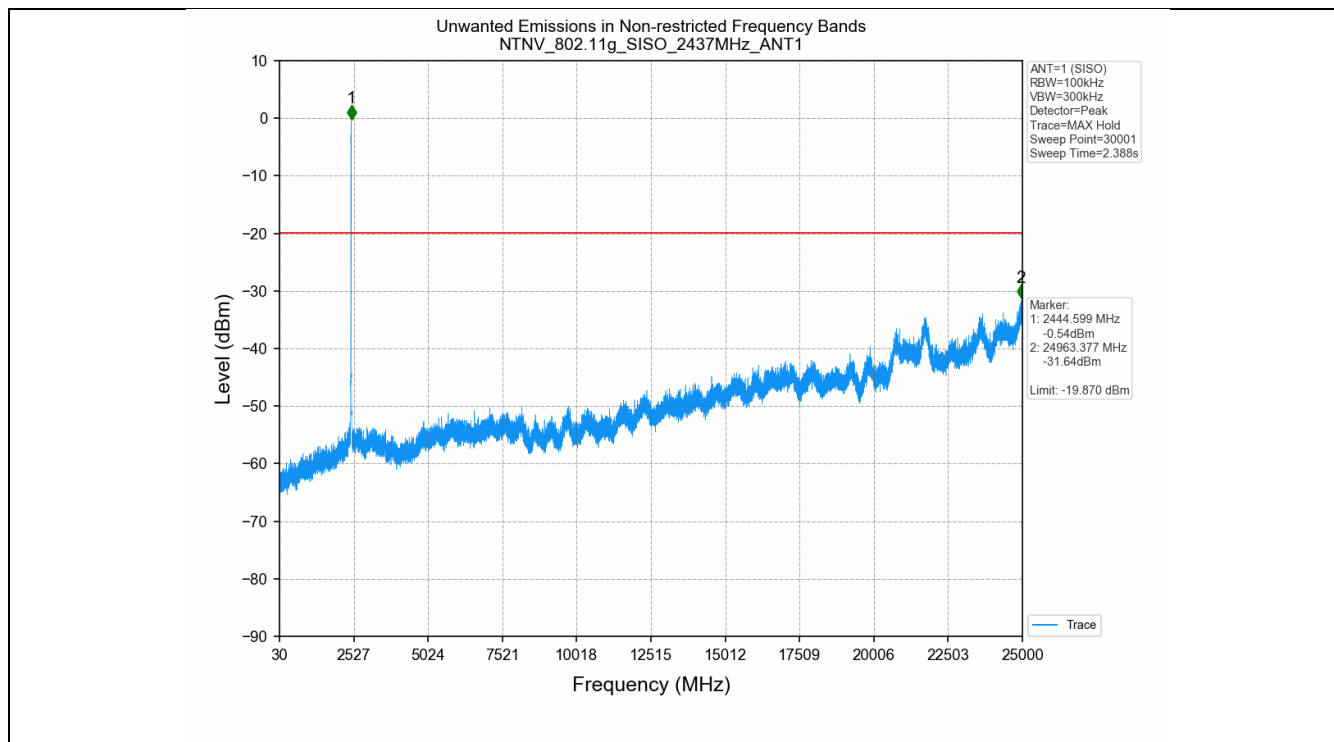
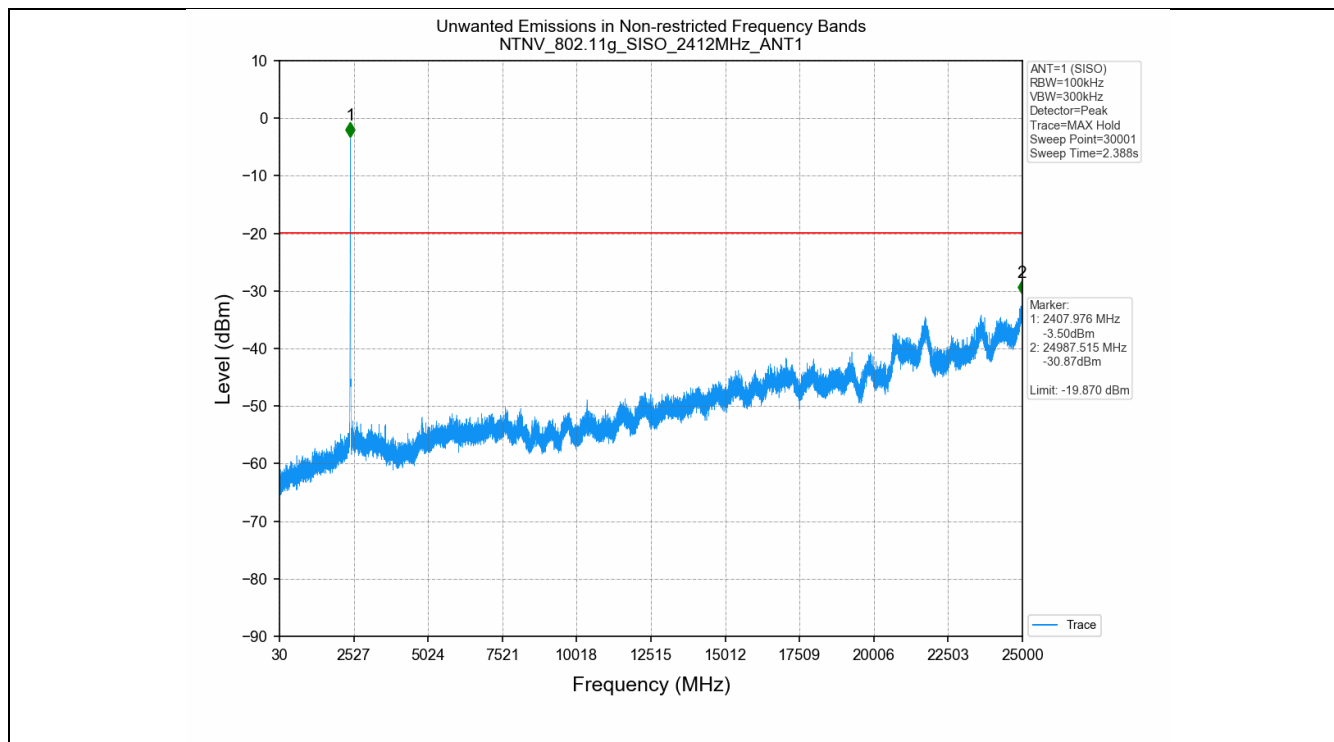


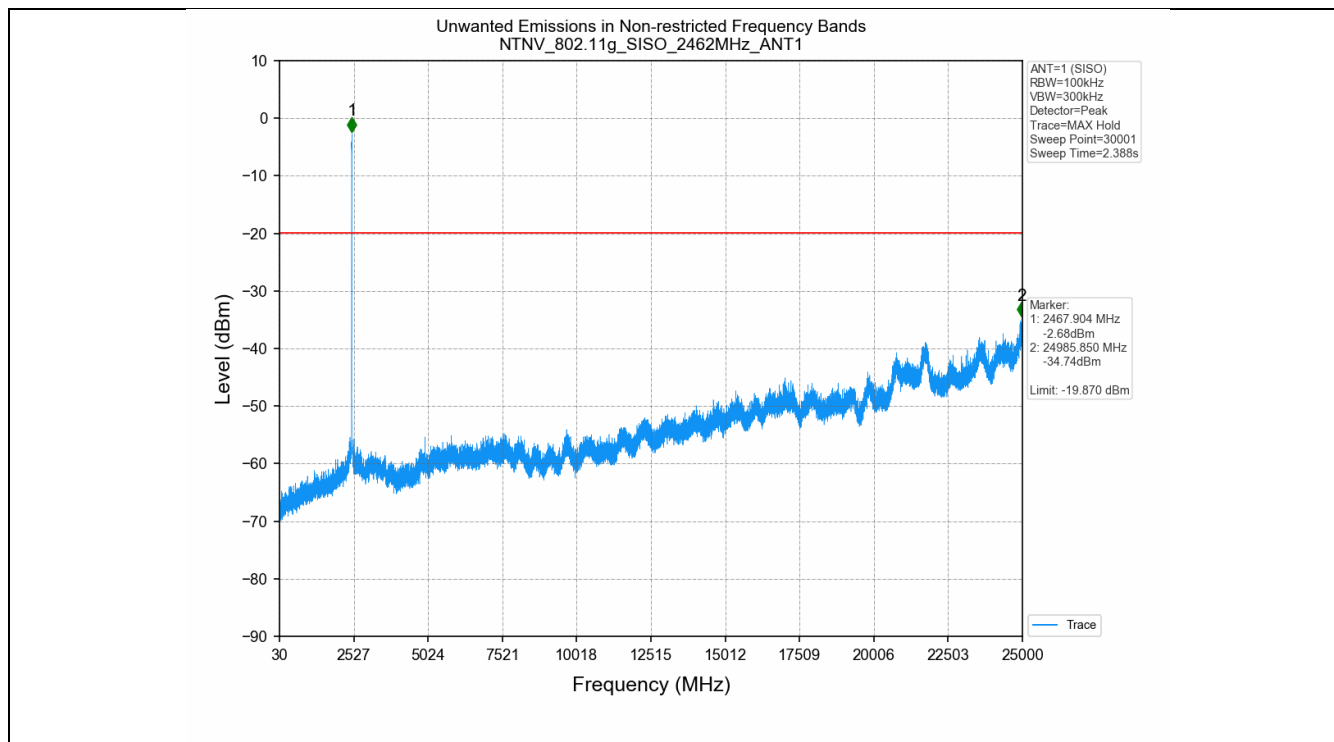
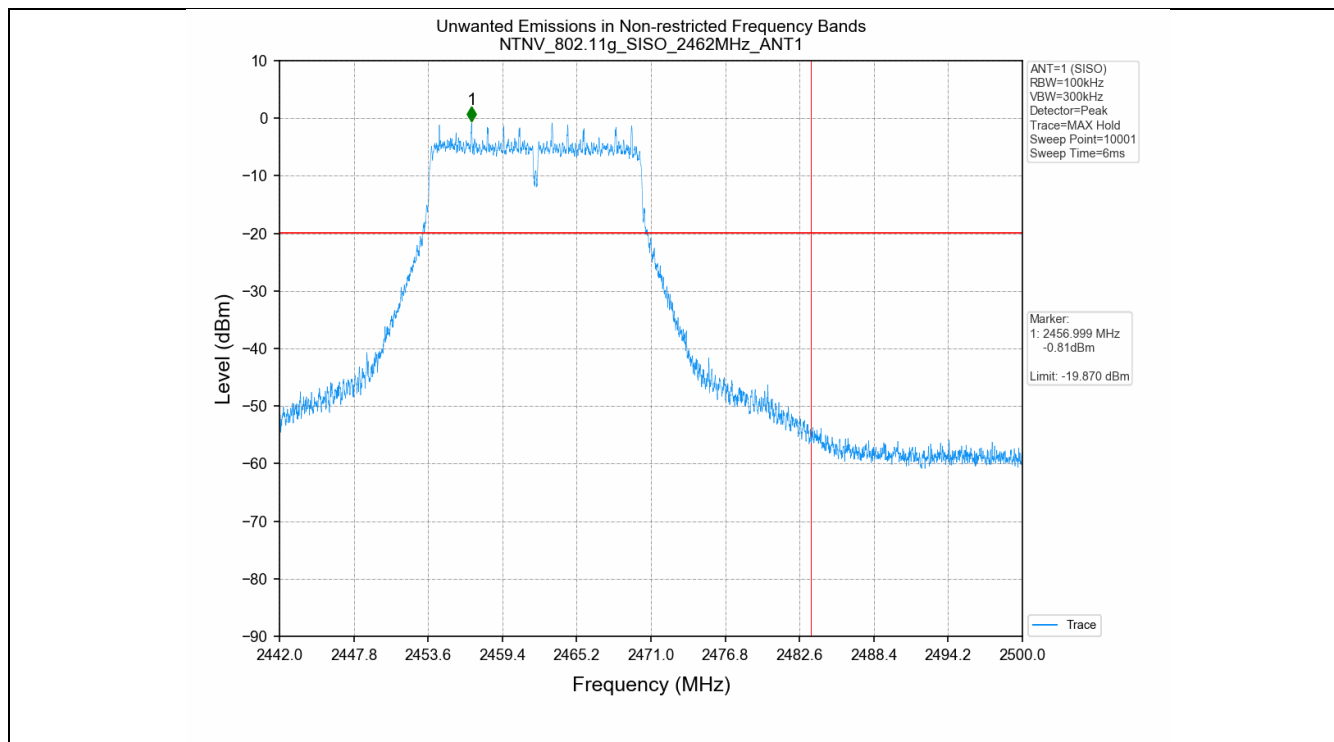
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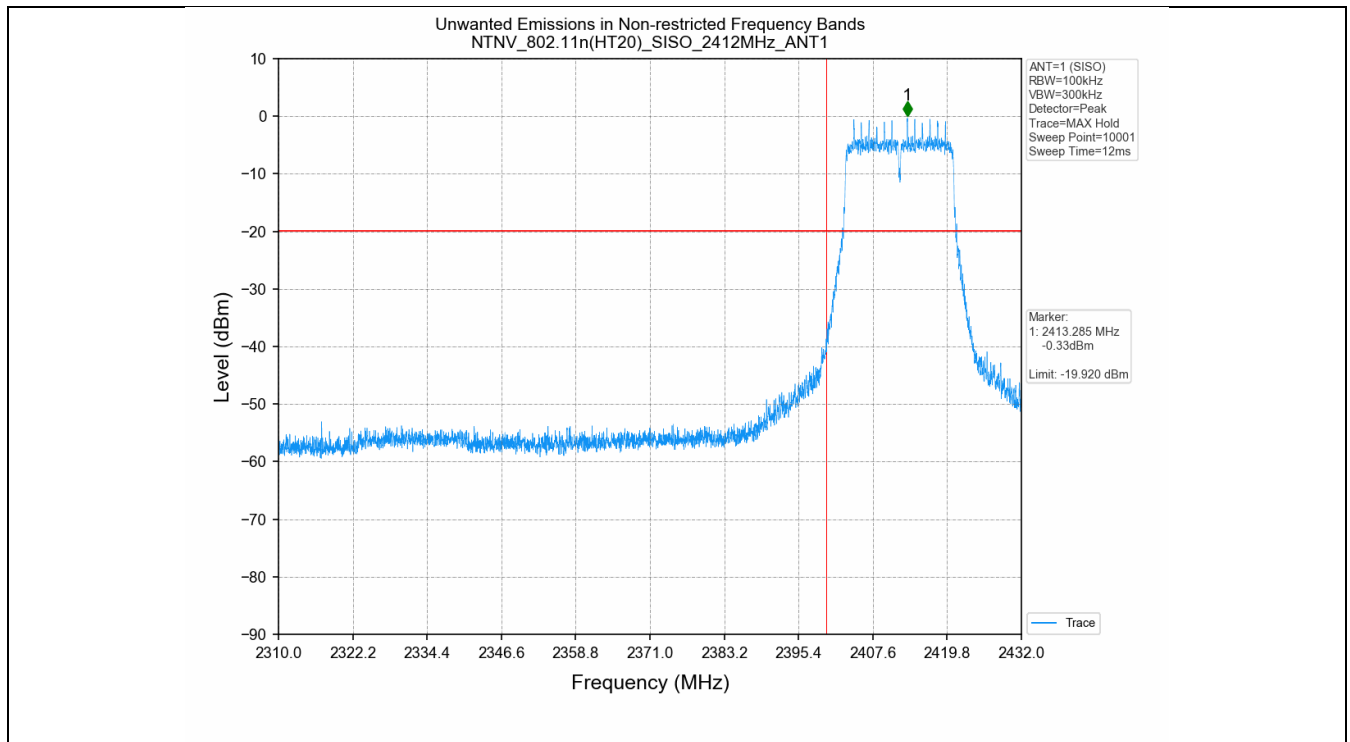
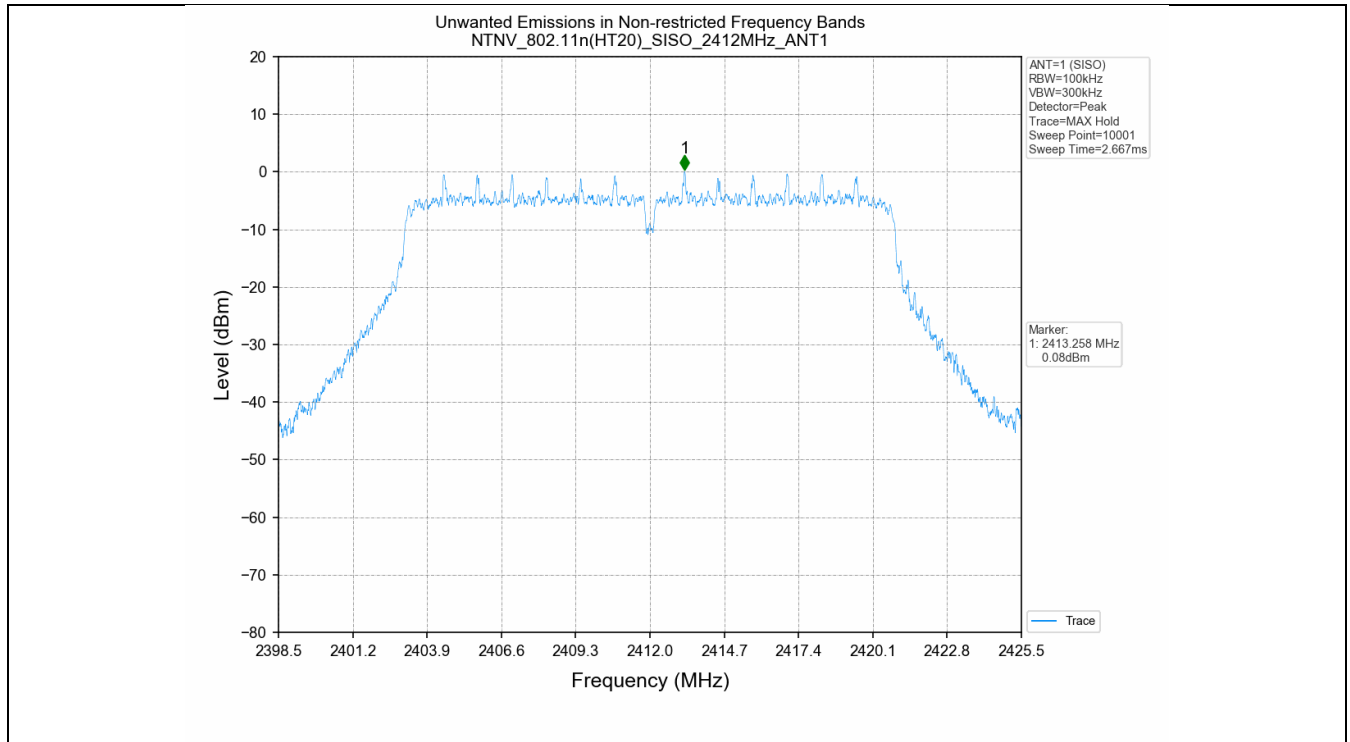




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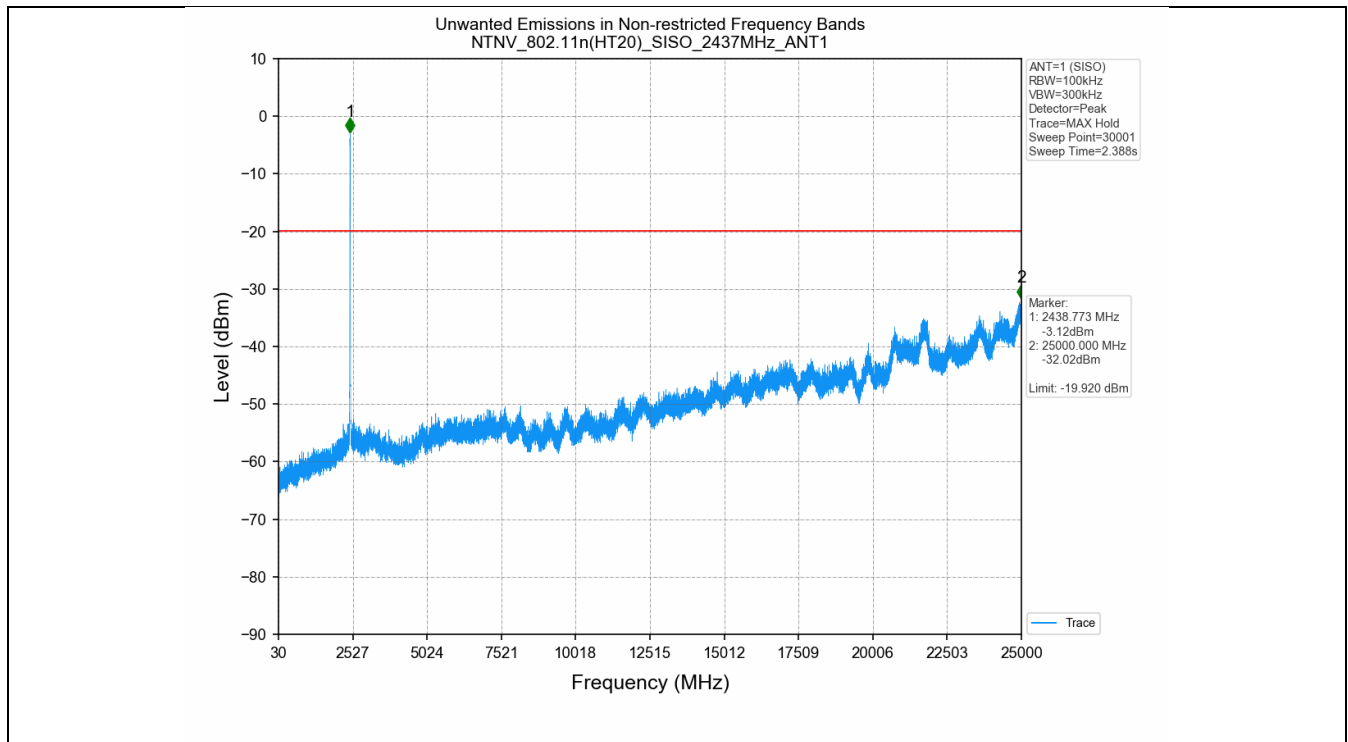
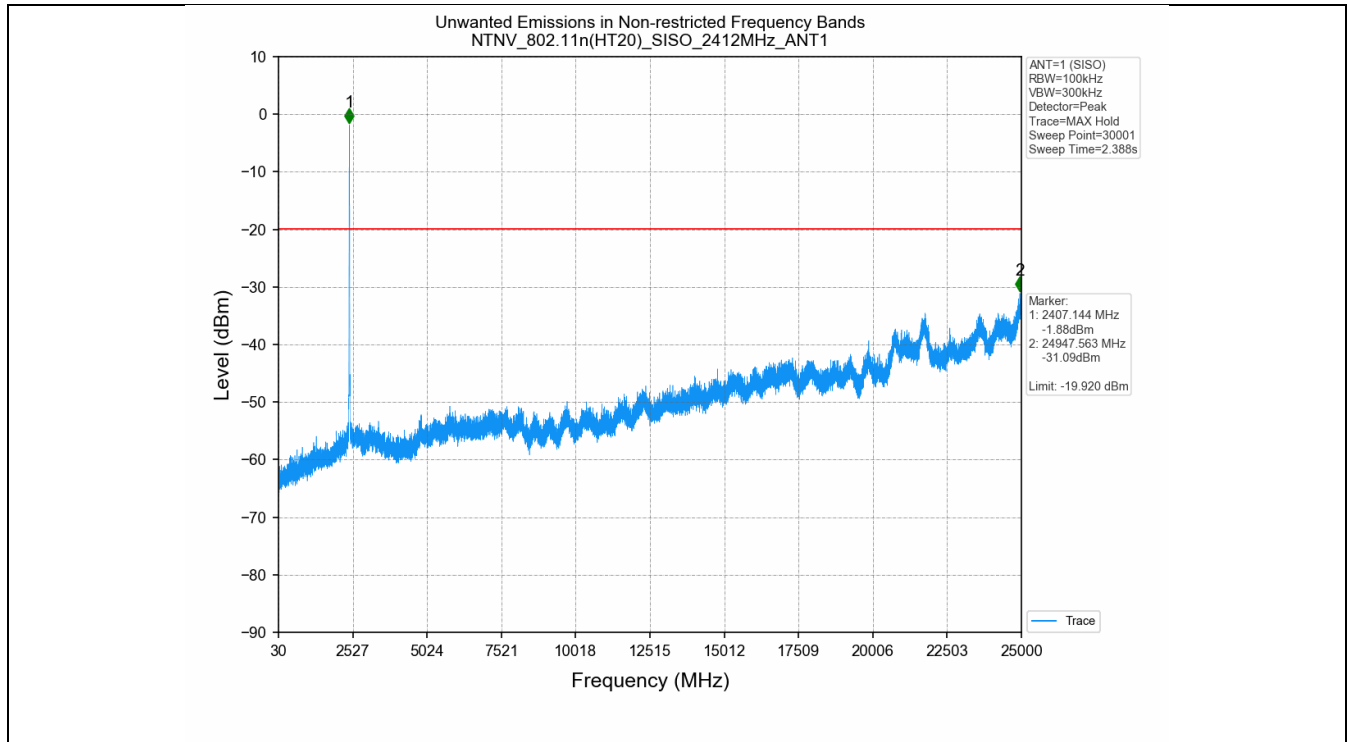


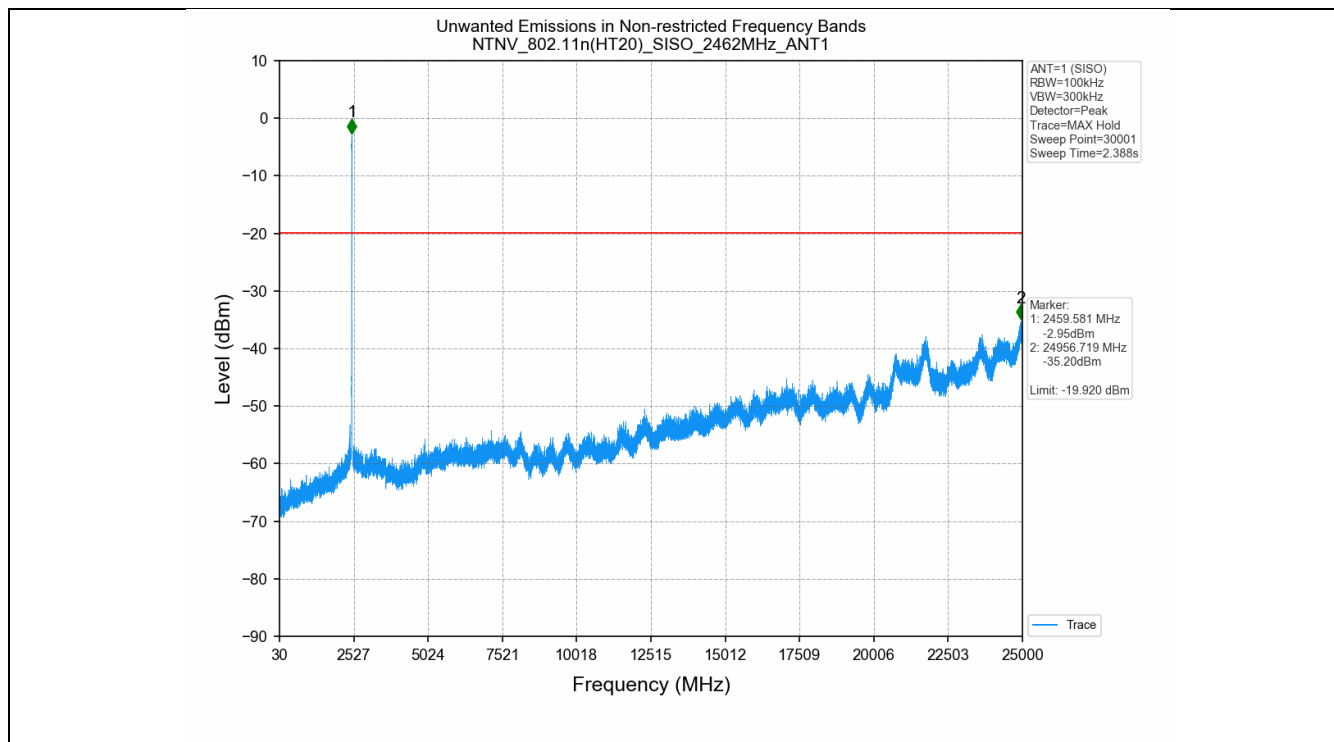
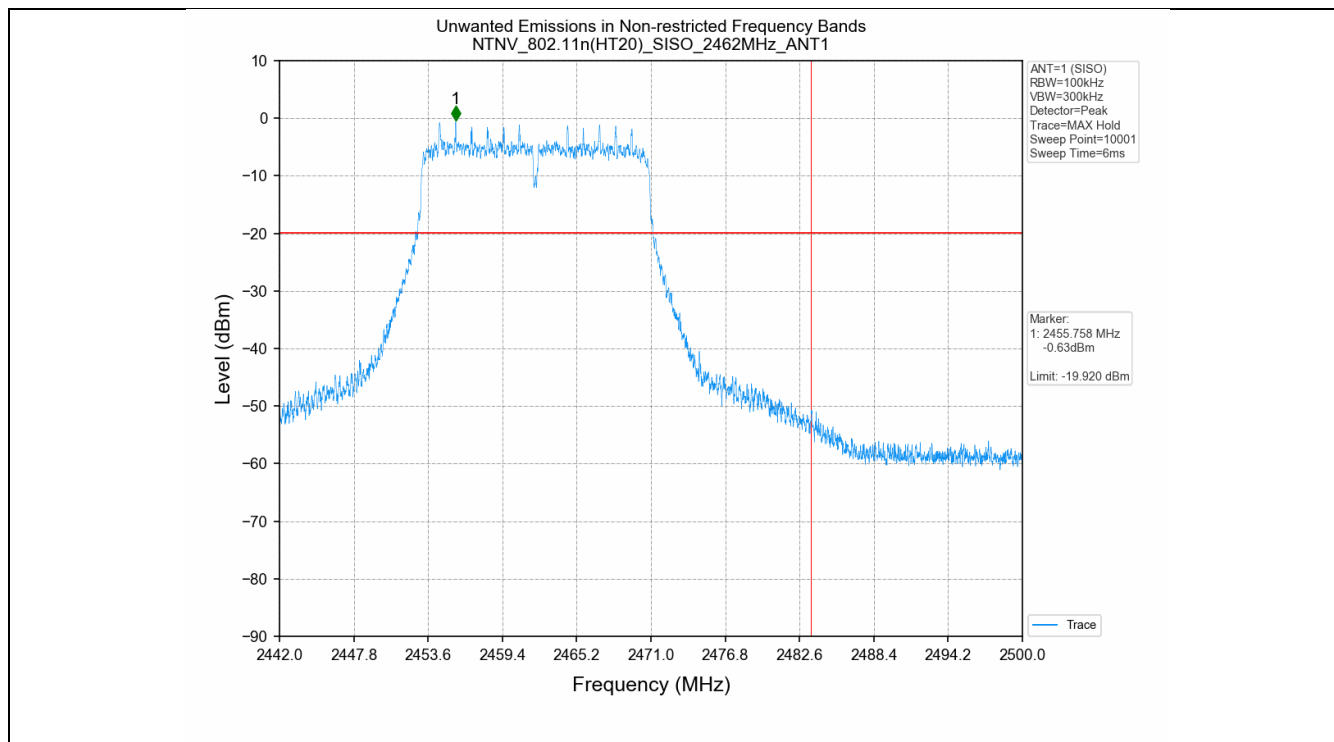


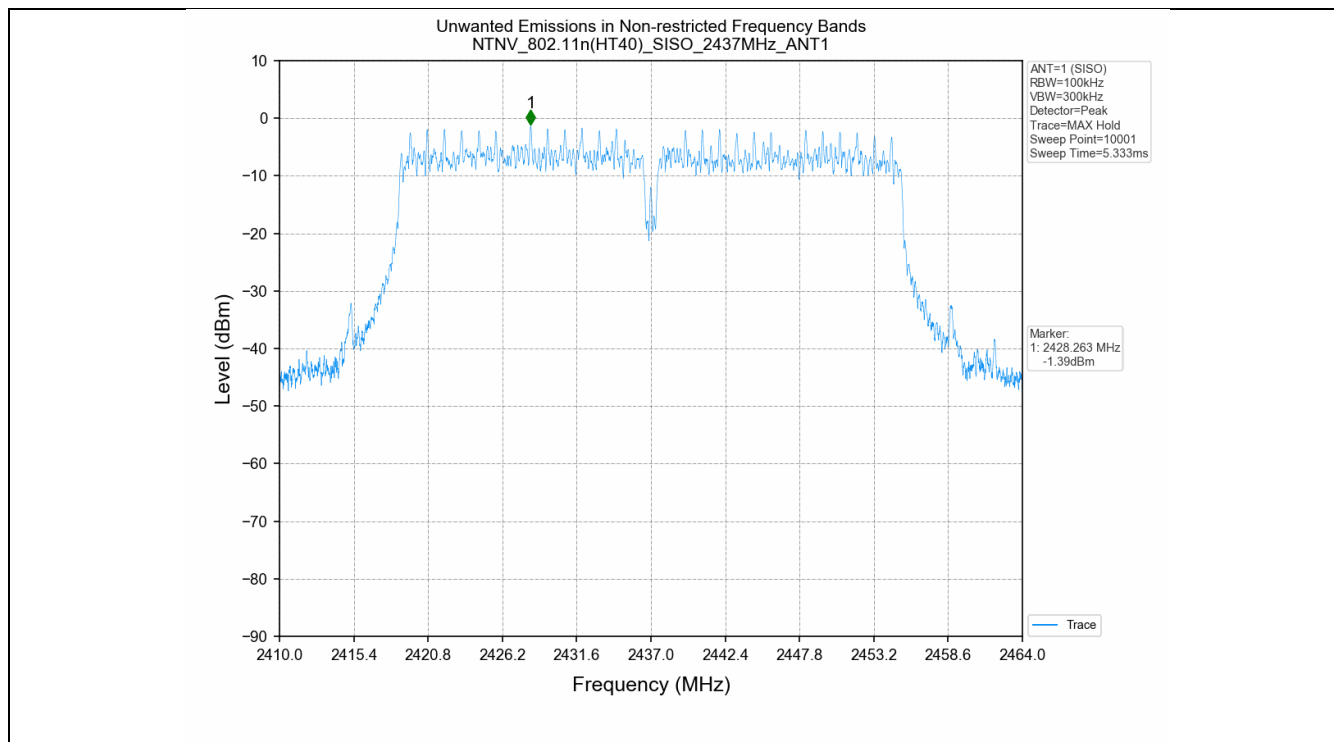




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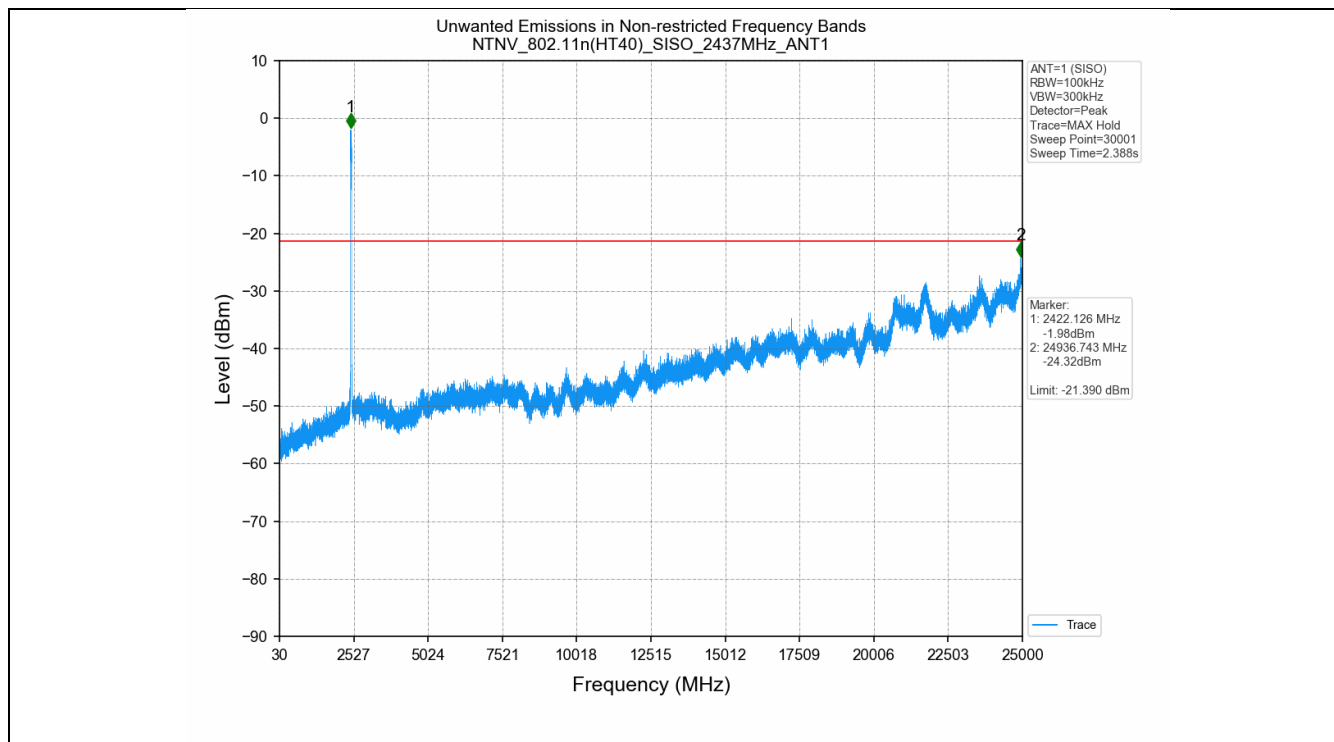
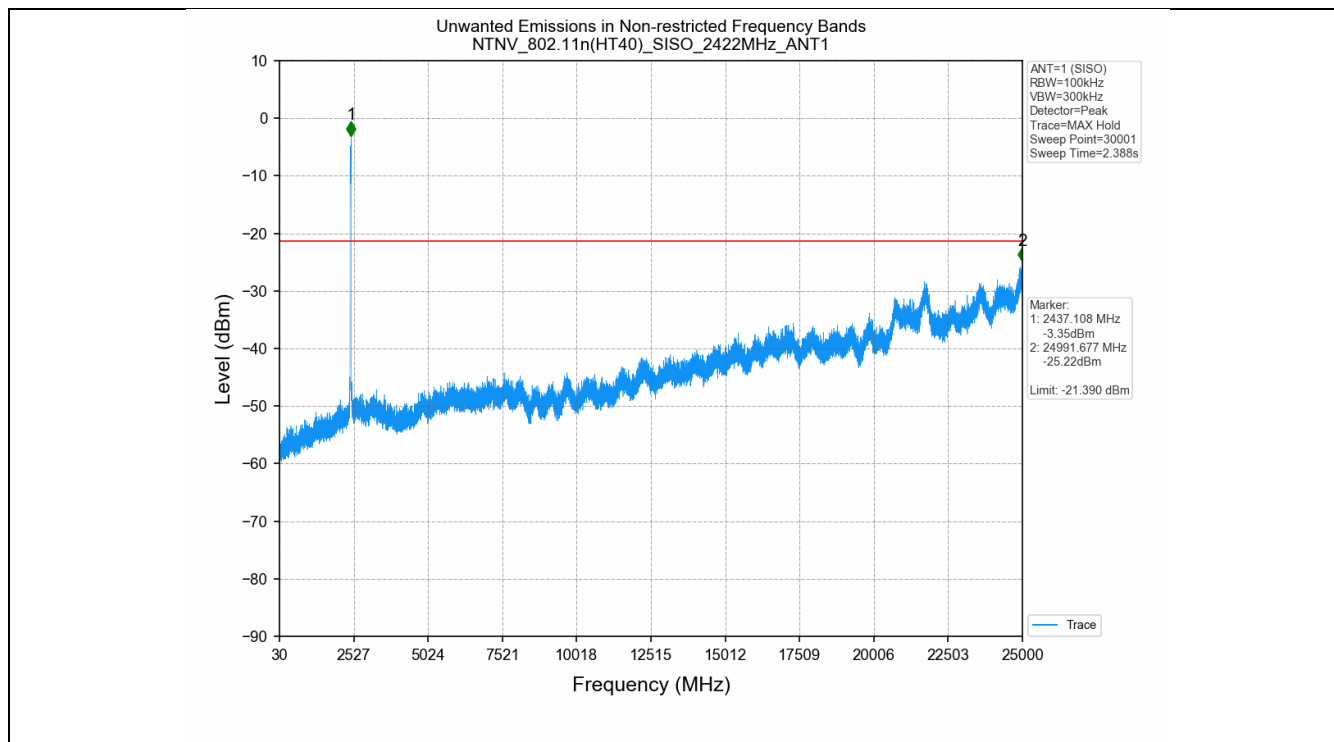


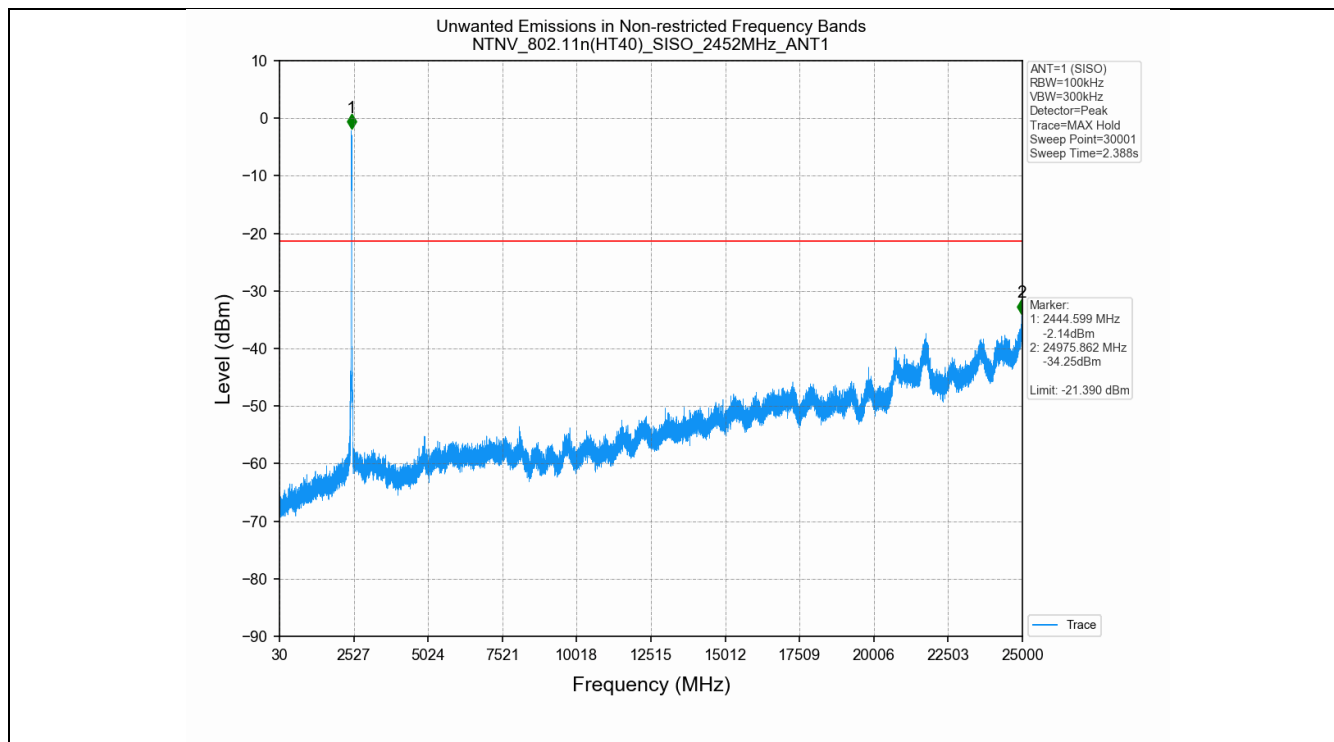






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