



Appendix A for SHEM200700634501

1. Duty Cycle

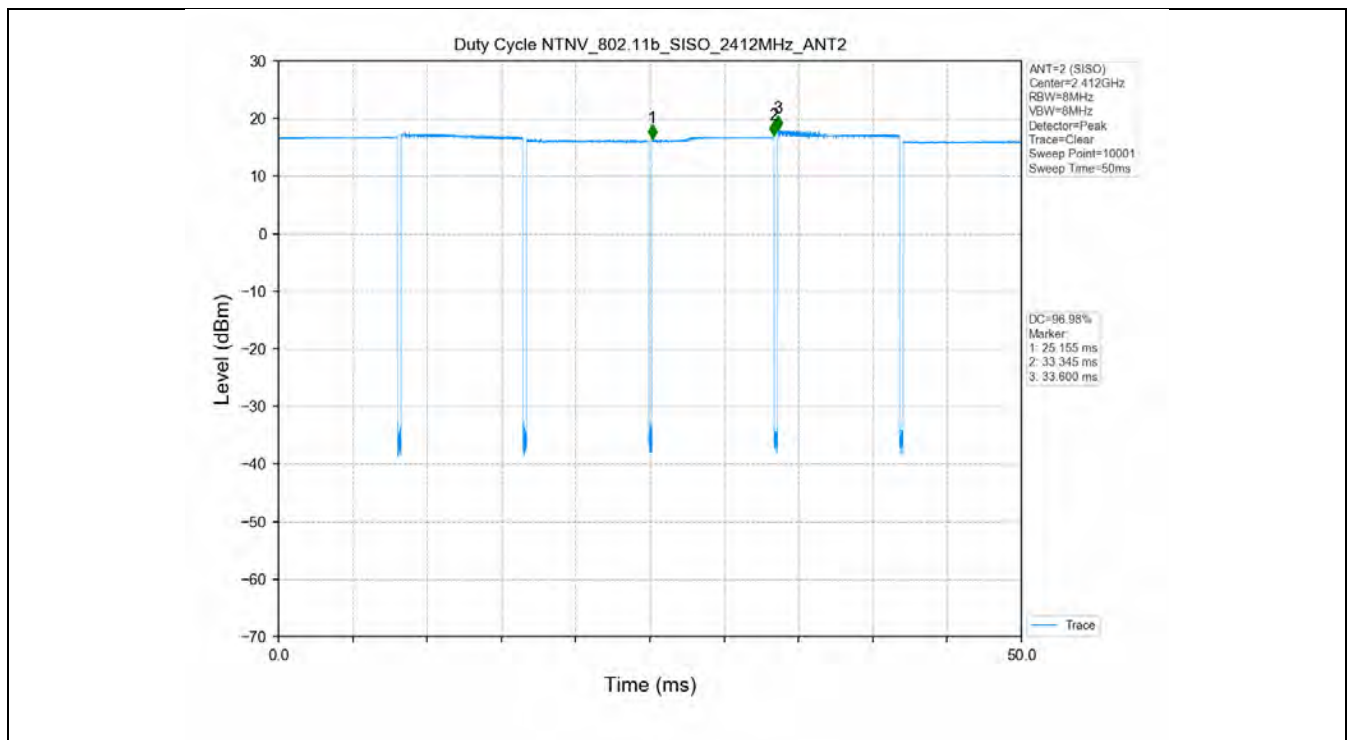
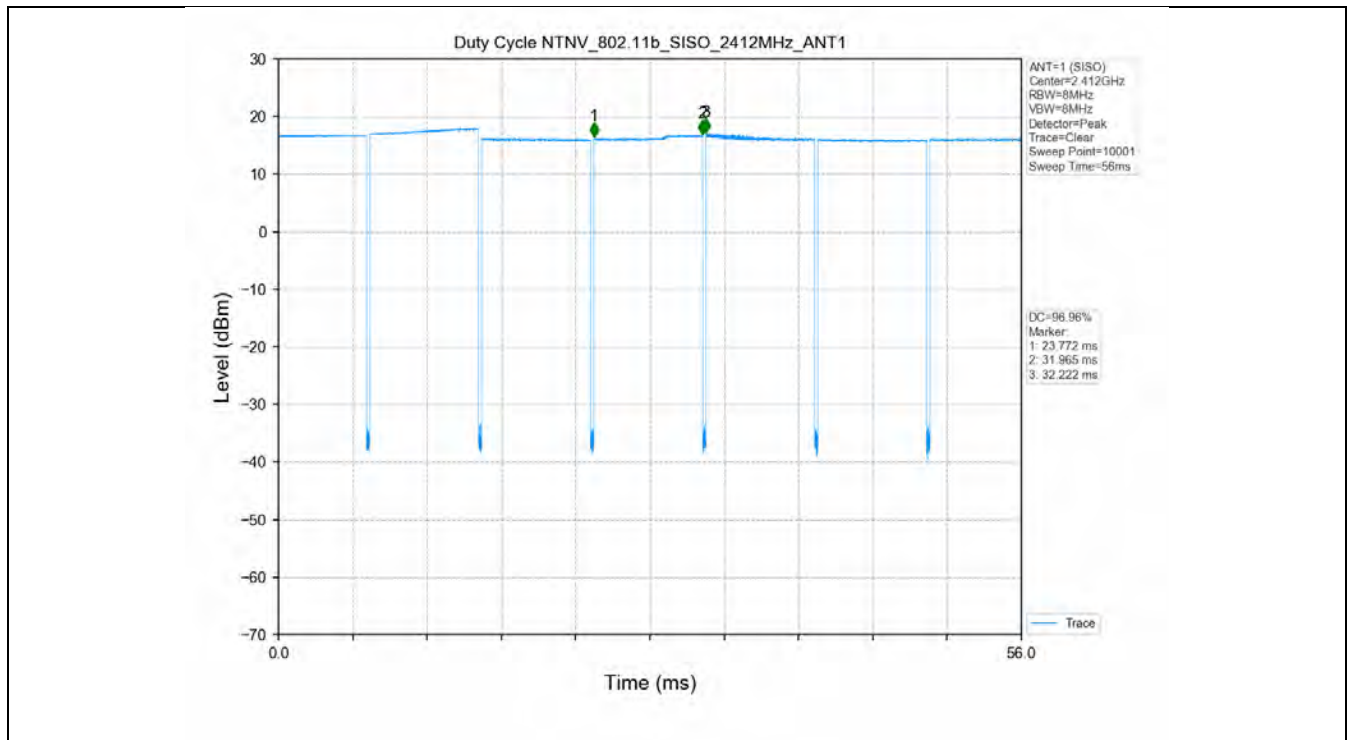
1.1 Test Result

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	8.193	8.450	96.96	0.13
			2	8.190	8.445	96.98	0.13
	2437	SISO	1	8.190	8.445	96.98	0.13
			2	8.195	8.450	96.98	0.13
	2462	SISO	1	8.193	8.451	96.95	0.13
			2	8.195	8.450	96.98	0.13
802.11g	2412	SISO	1	1.360	1.613	84.31	0.74
			2	1.359	1.613	84.25	0.74
	2437	SISO	1	1.360	1.613	84.31	0.74
			2	1.360	1.613	84.31	0.74
	2462	SISO	1	1.360	1.613	84.31	0.74
			2	1.360	1.613	84.31	0.74
802.11n(HT20)	2412	MIMO	1	1.272	1.525	83.41	0.79
			2	1.272	1.526	83.36	0.79
	2437	MIMO	1	1.271	1.525	83.34	0.79
			2	1.272	1.525	83.41	0.79
	2462	MIMO	1	1.272	1.526	83.36	0.79
			2	1.272	1.526	83.36	0.79
802.11n(HT40)	2422	MIMO	1	0.632	0.885	71.41	1.46
			2	0.632	0.884	71.49	1.46
	2437	MIMO	1	0.632	0.885	71.41	1.46
			2	0.632	0.885	71.41	1.46
	2452	MIMO	1	0.632	0.886	71.33	1.47
			2	0.632	0.885	71.41	1.46

1.2 Test Graph

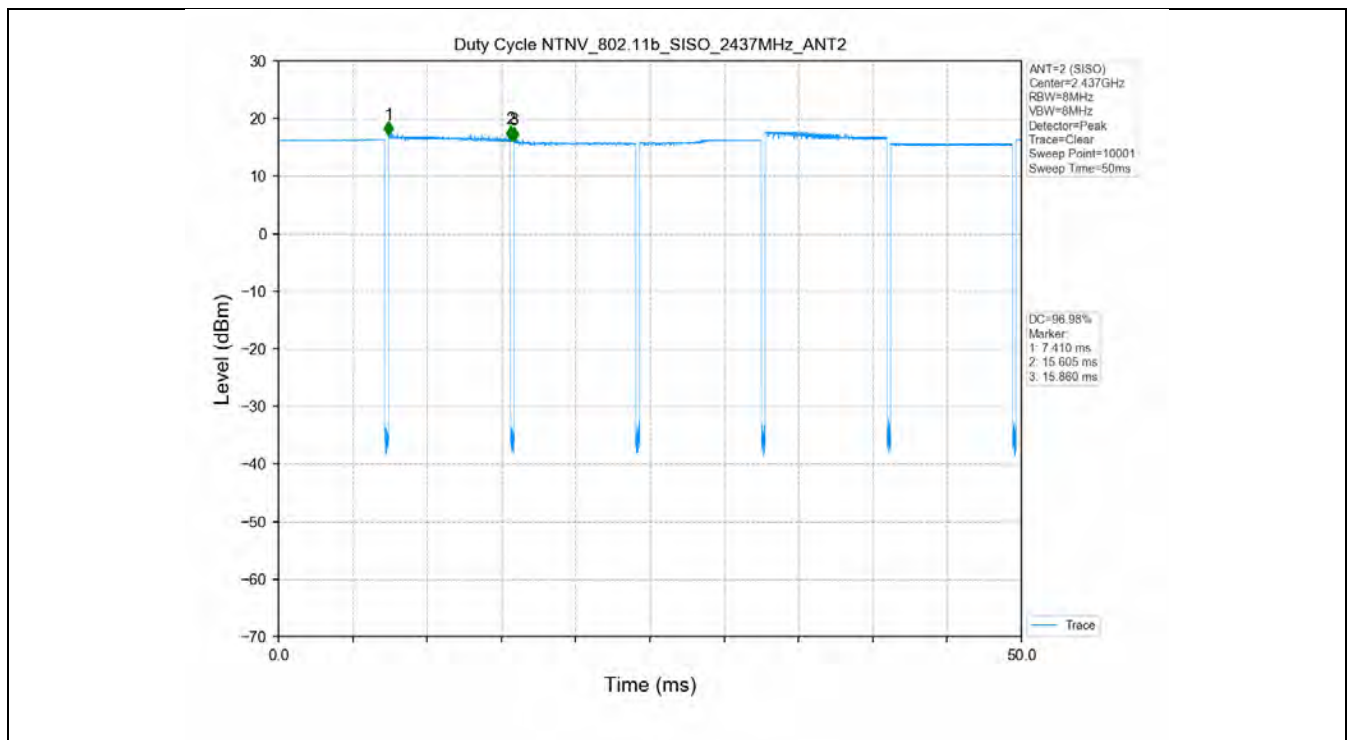
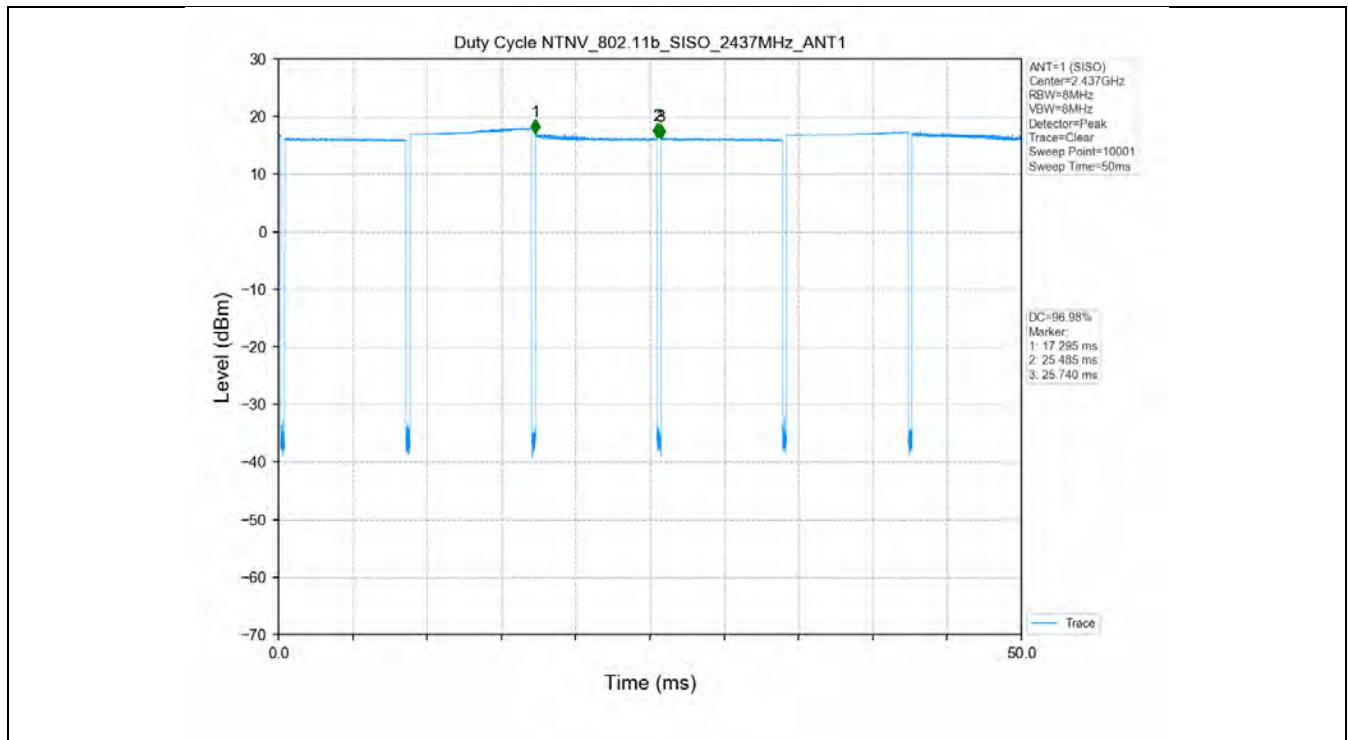


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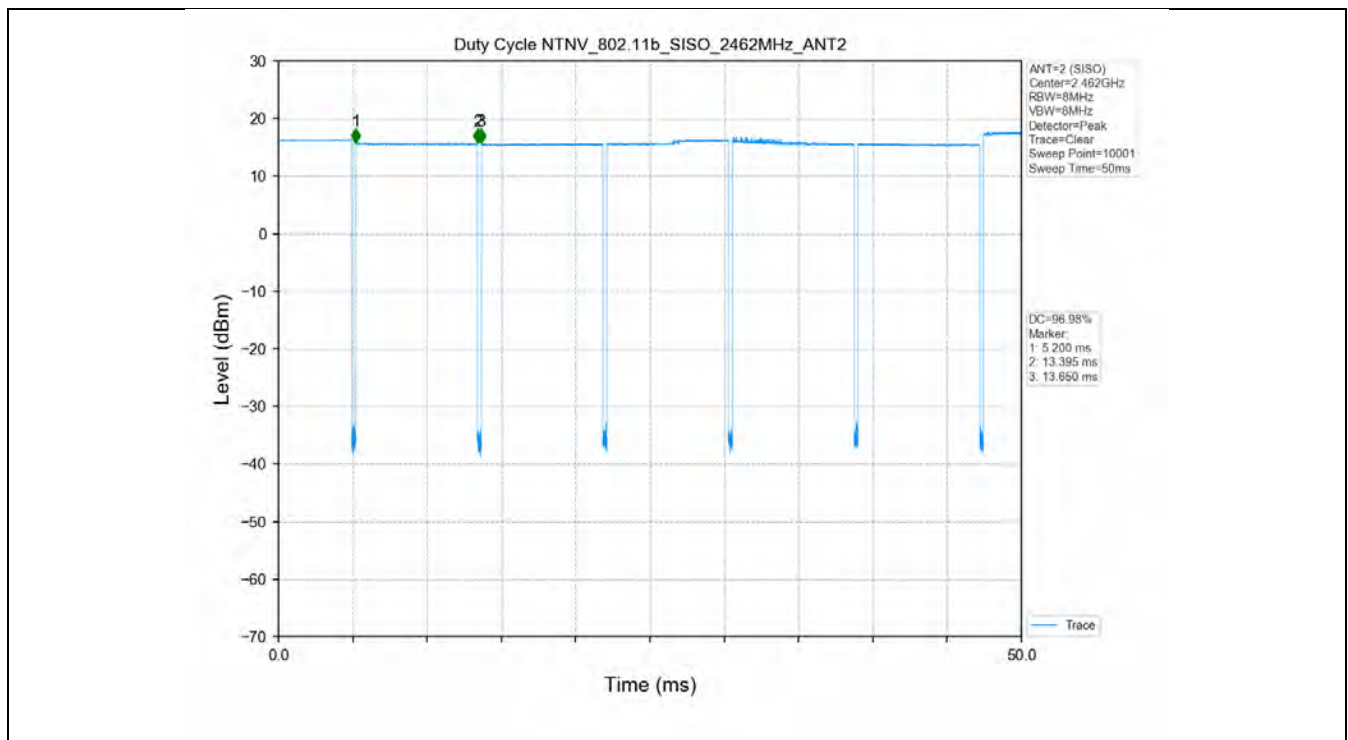
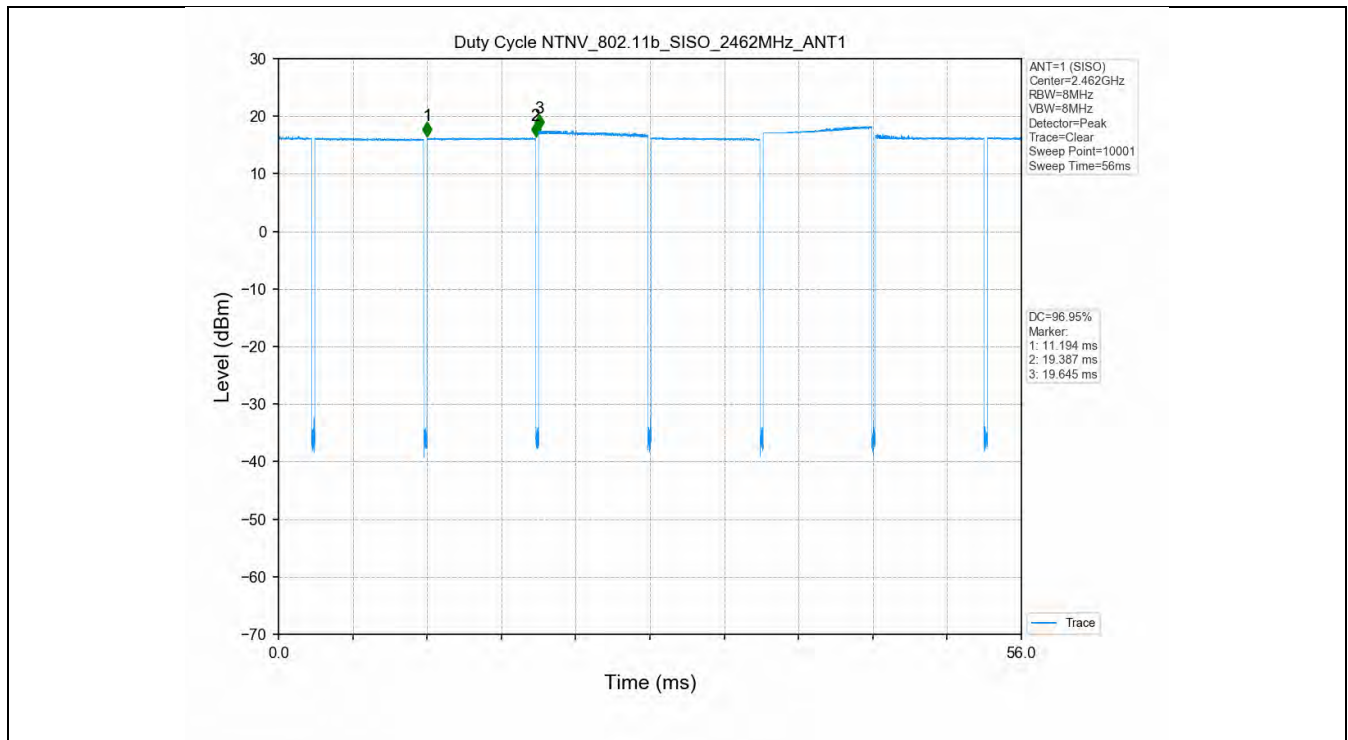


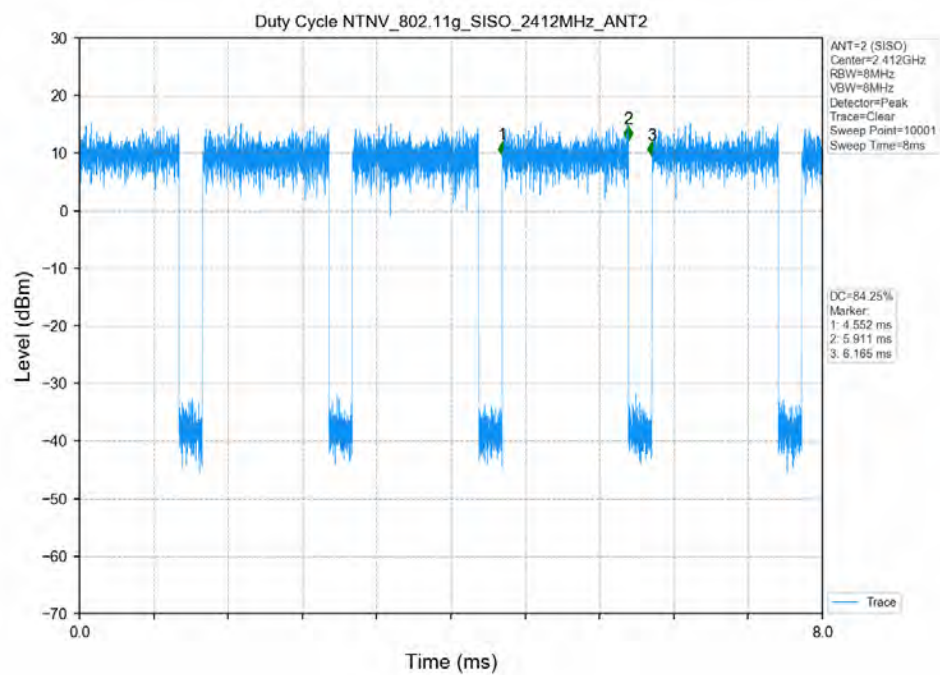
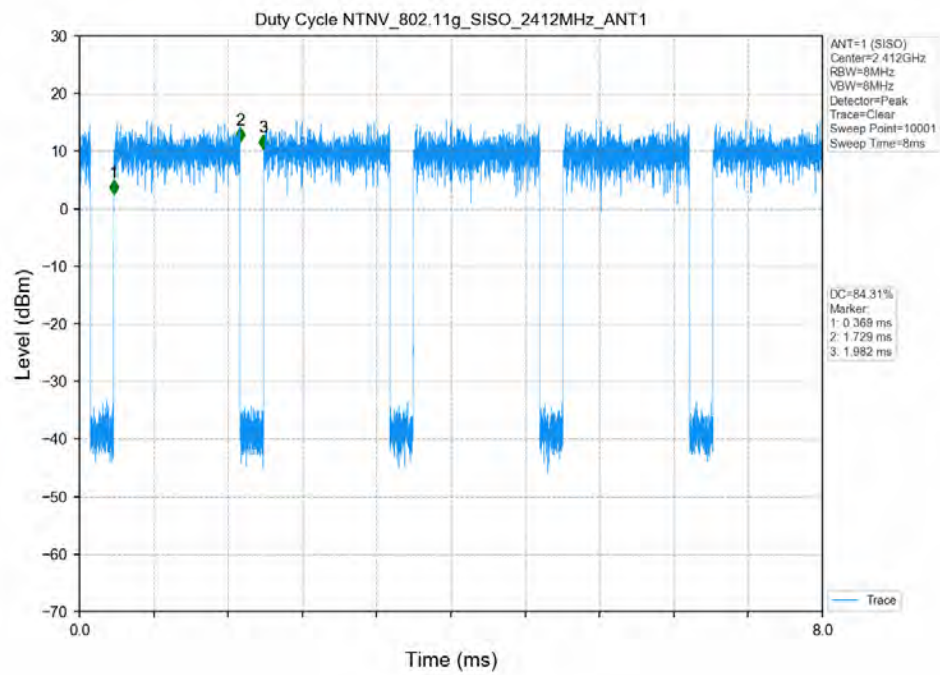
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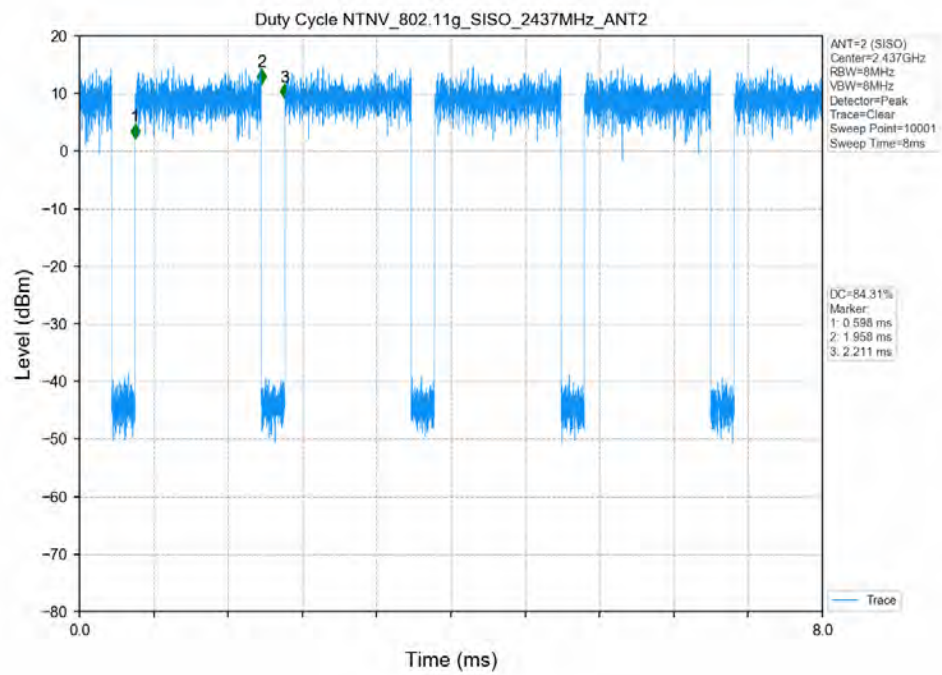
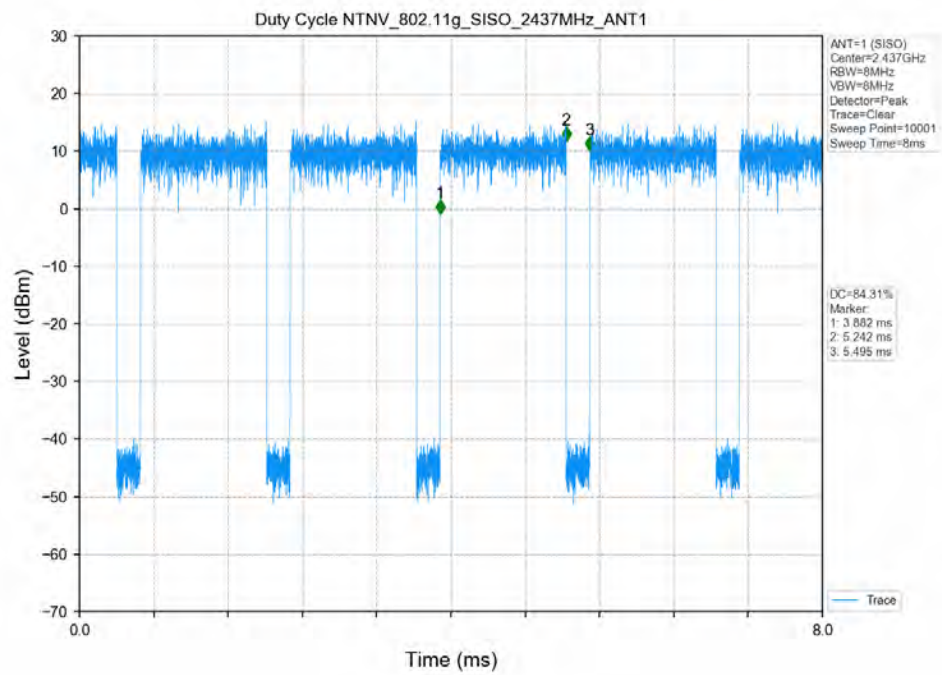
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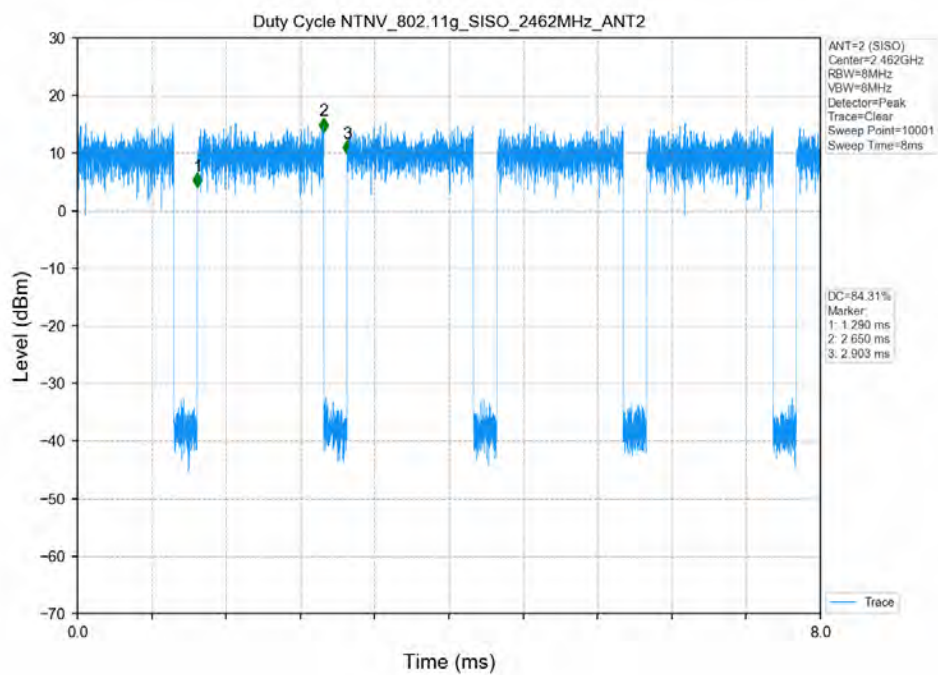
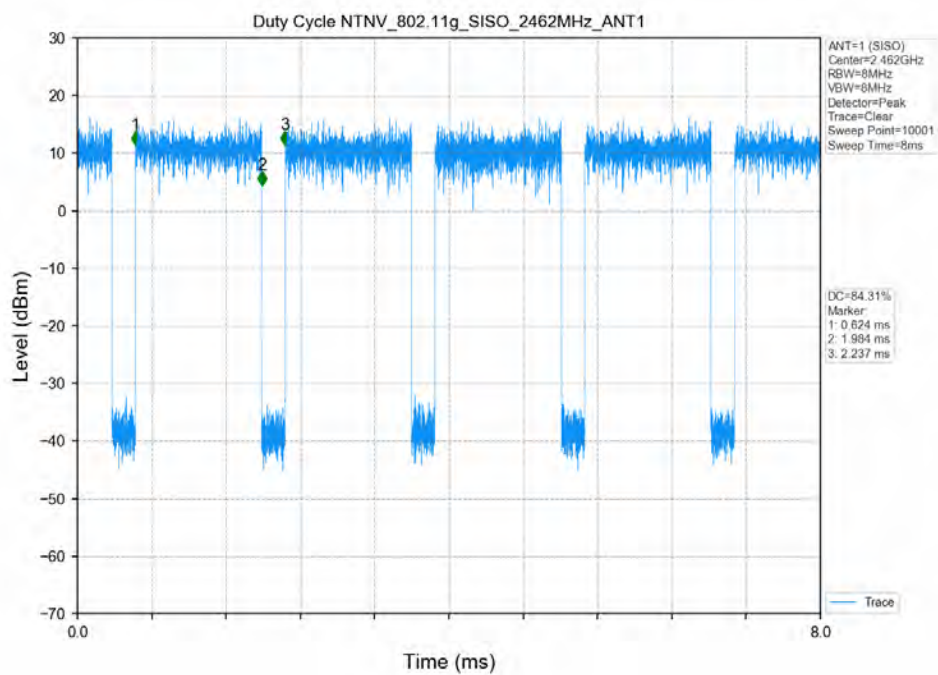


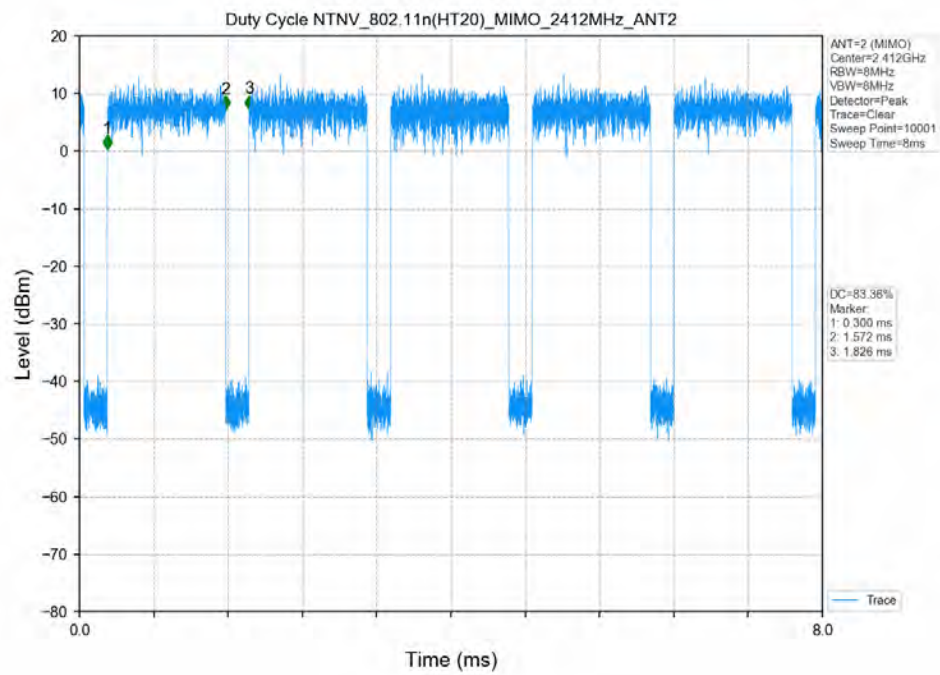
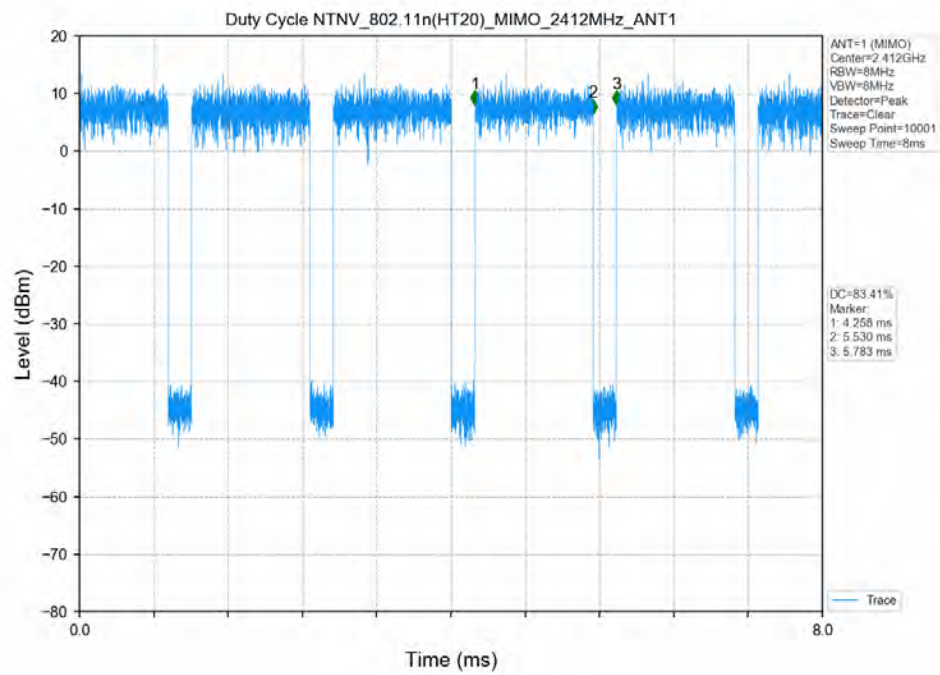


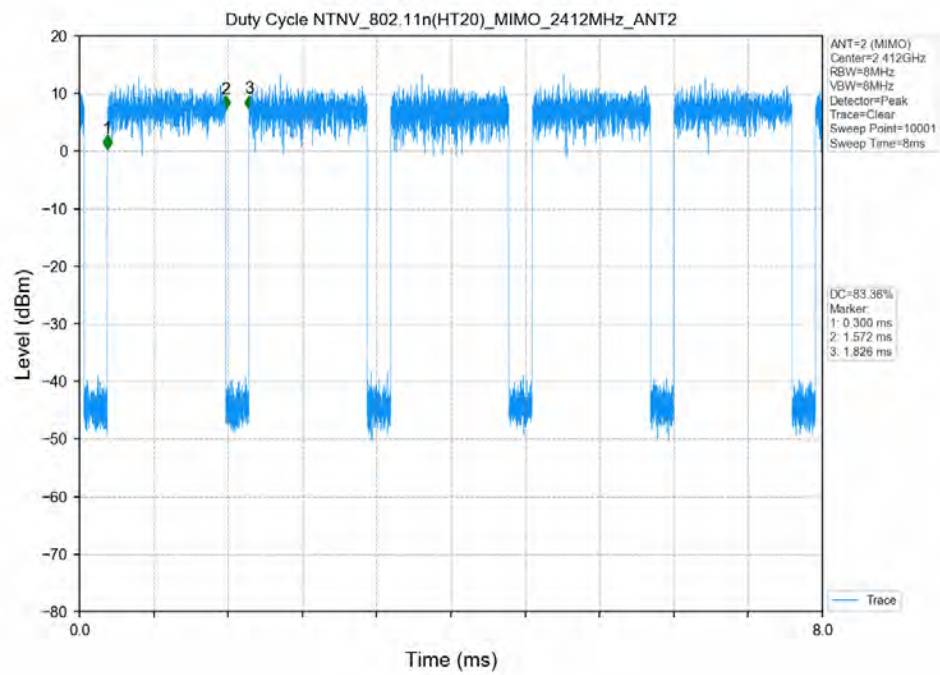
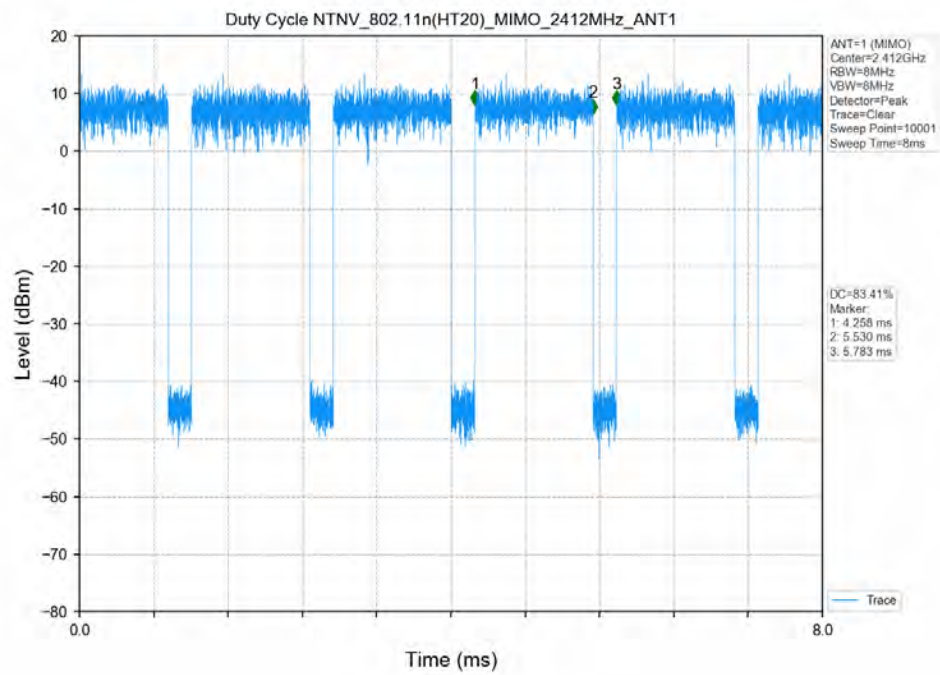


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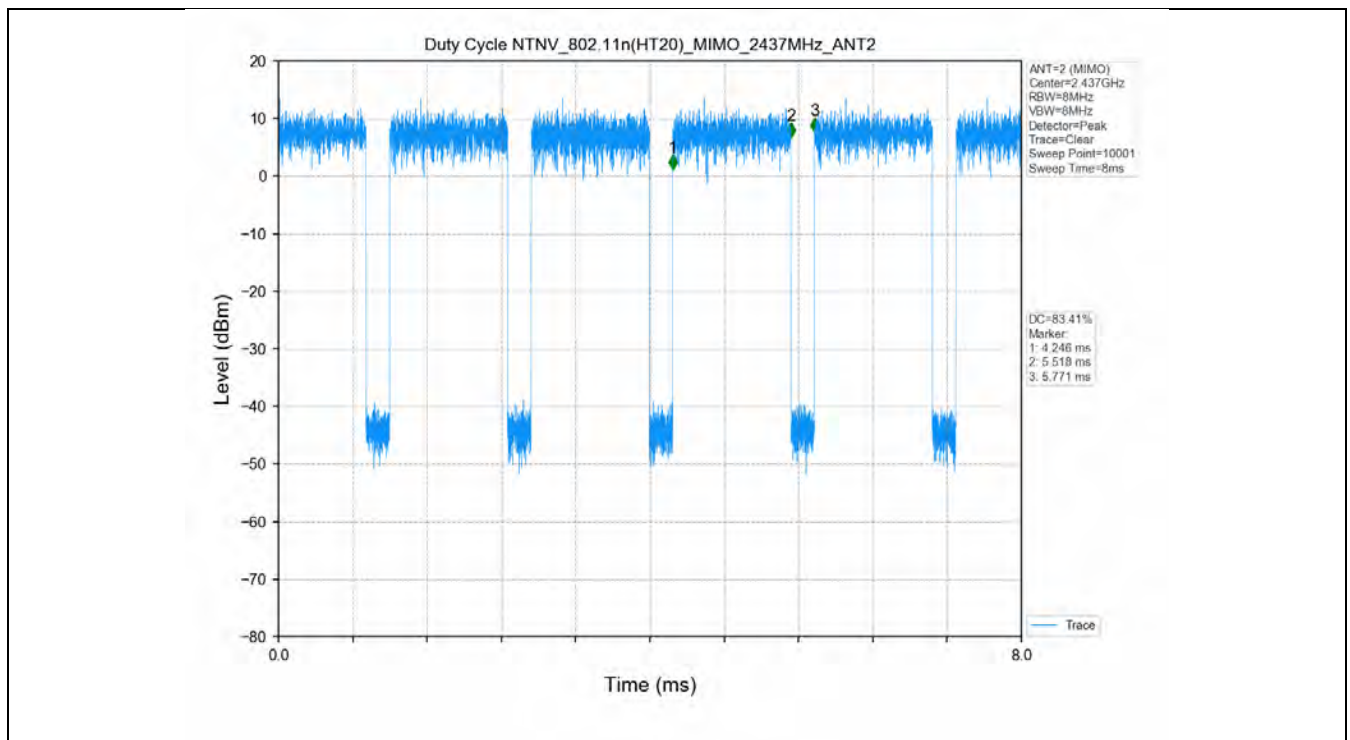
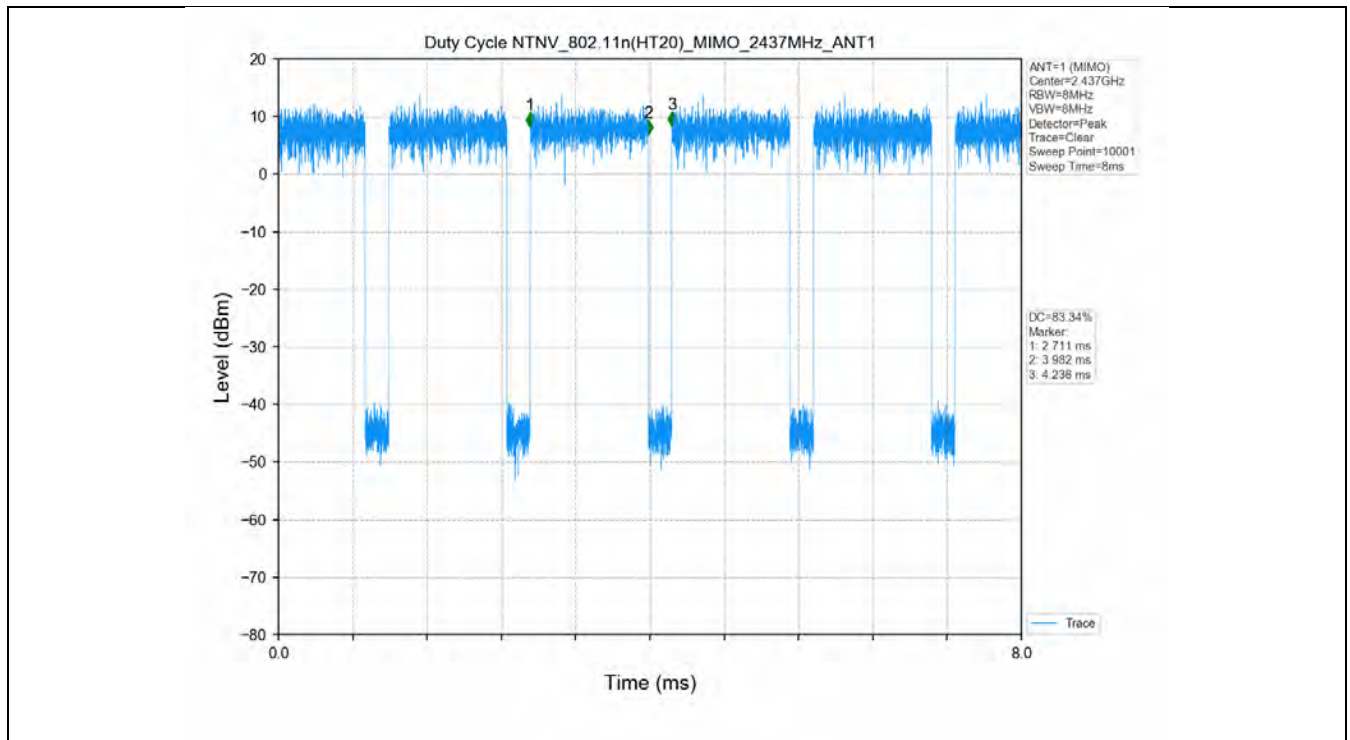


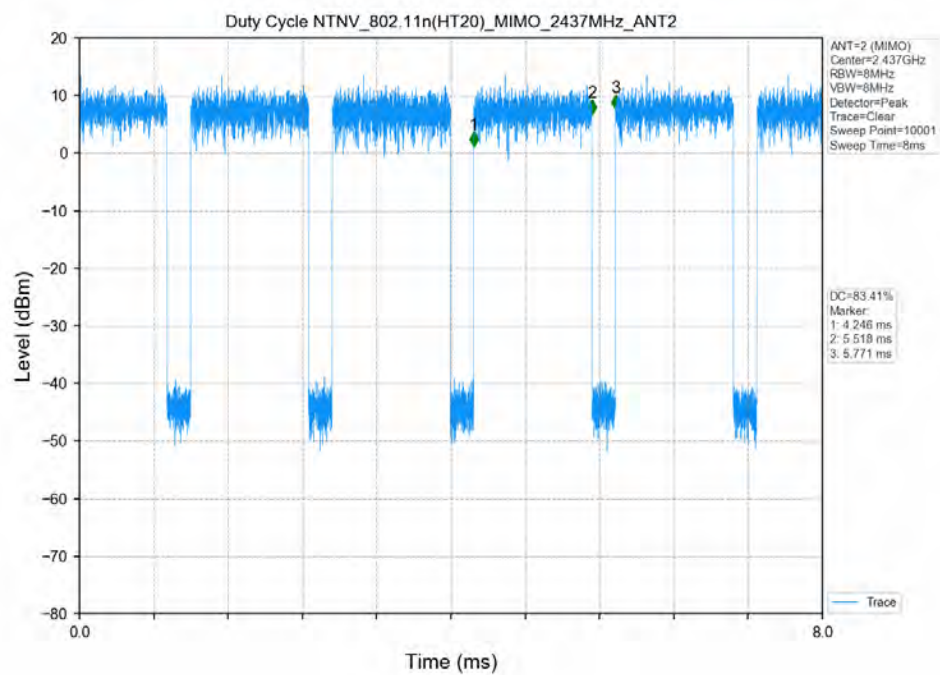
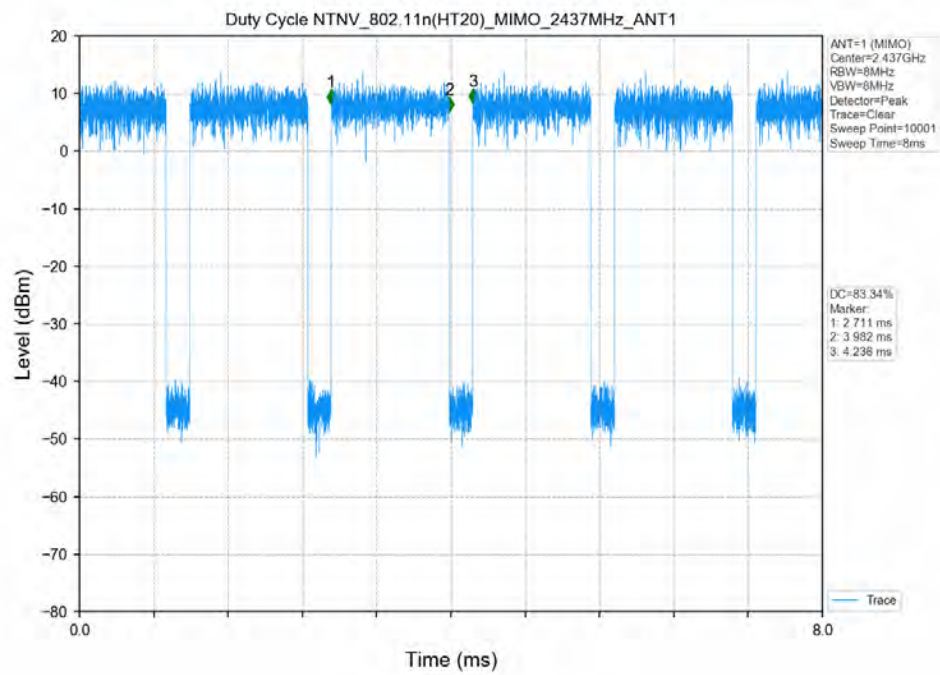


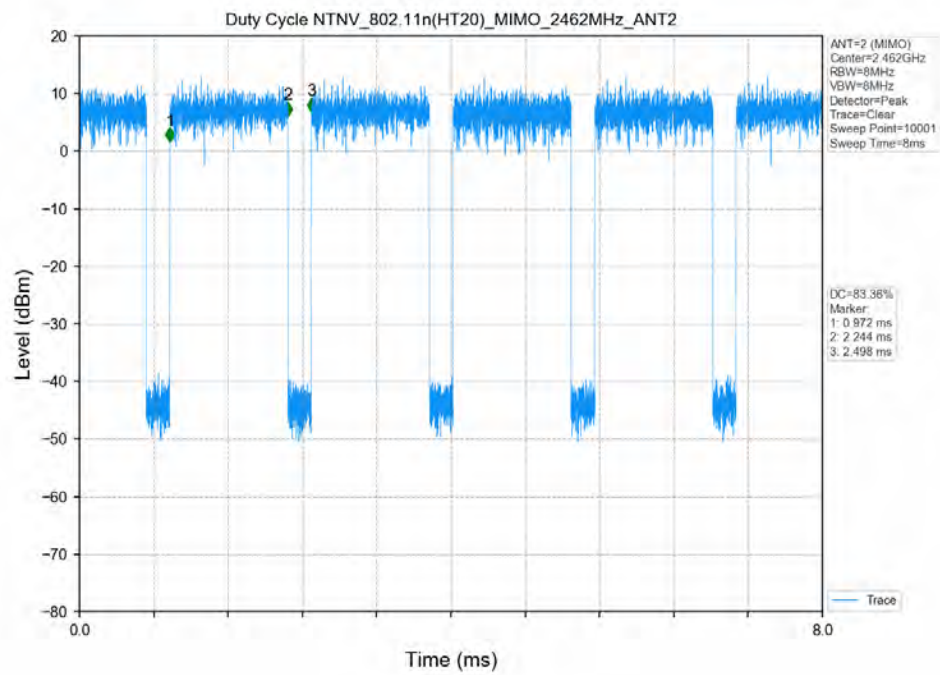
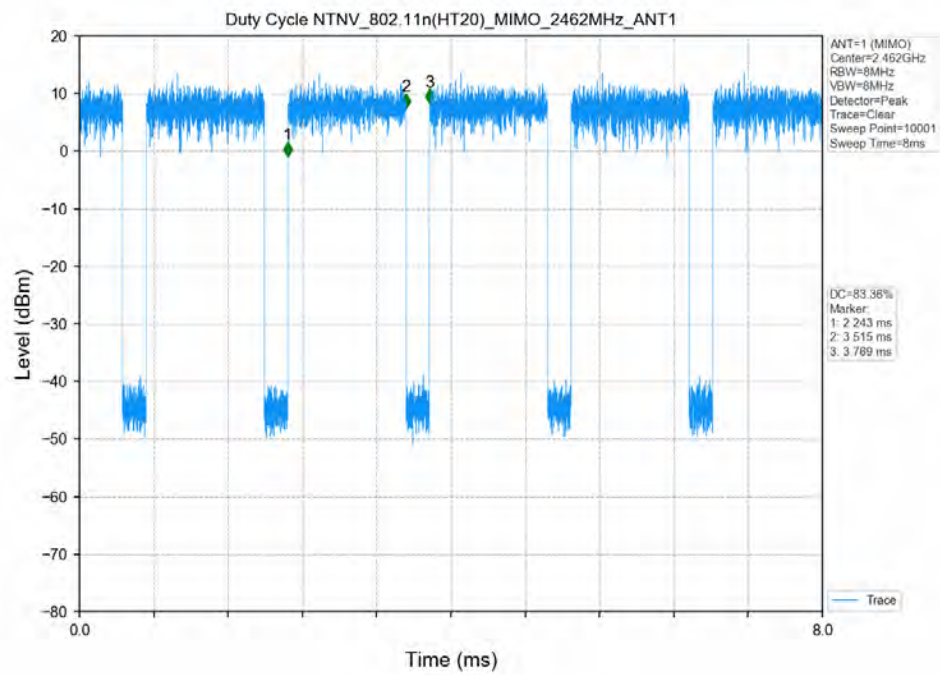


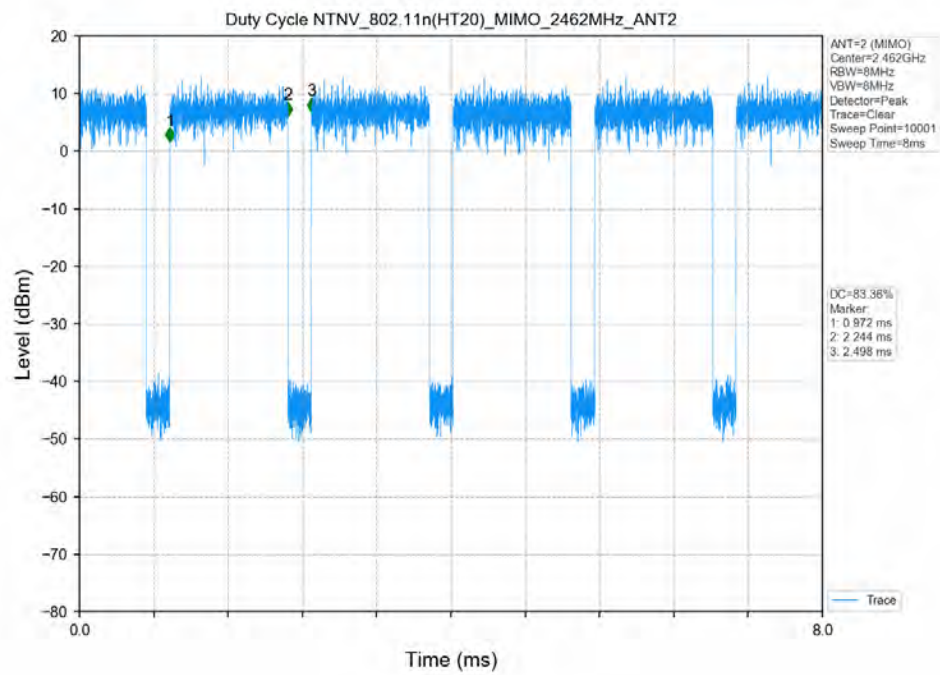
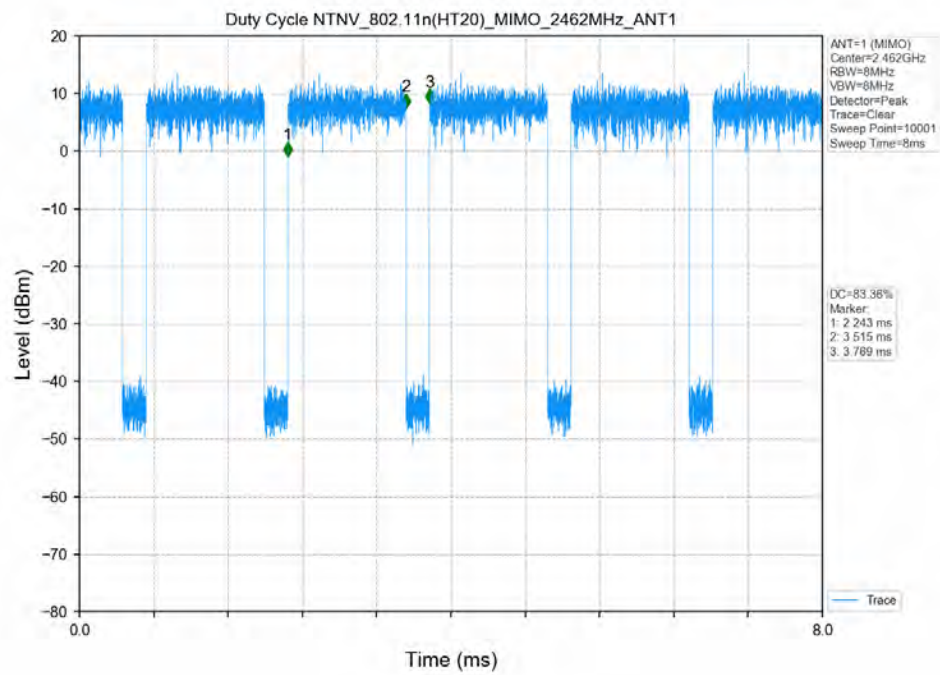


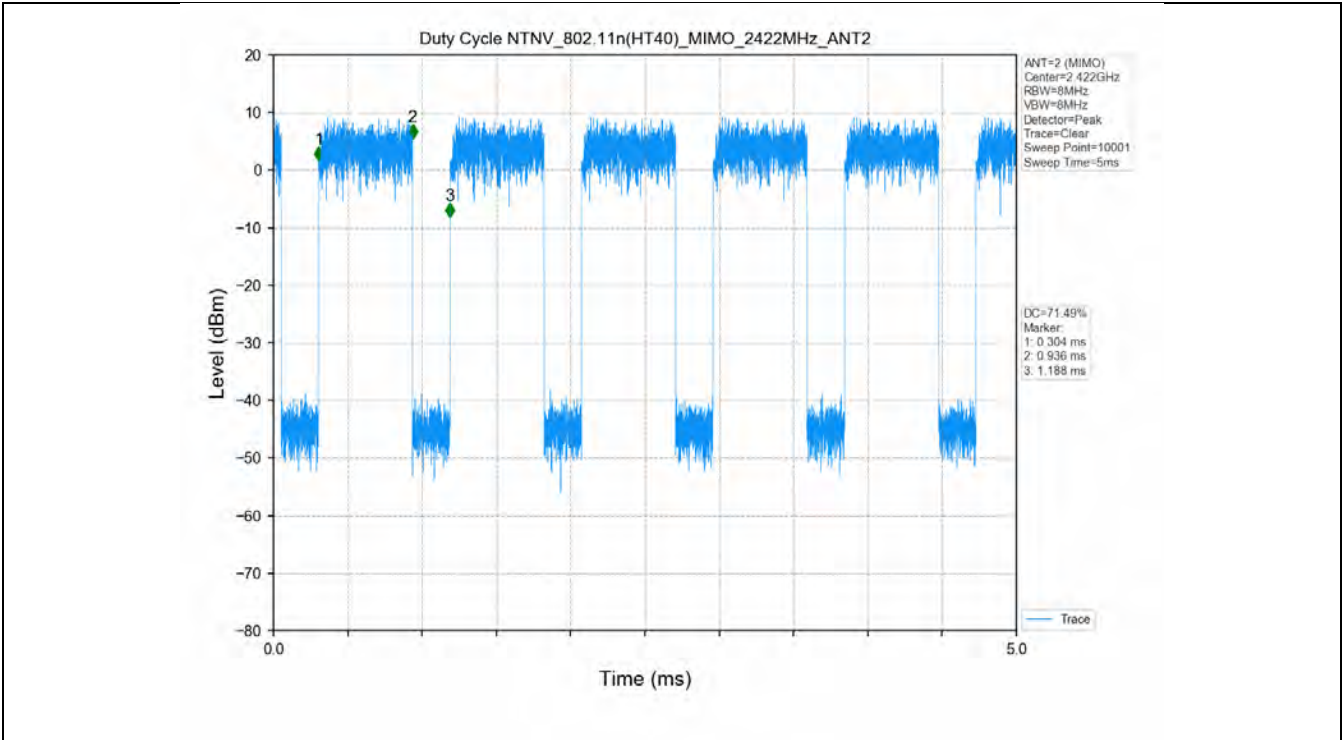
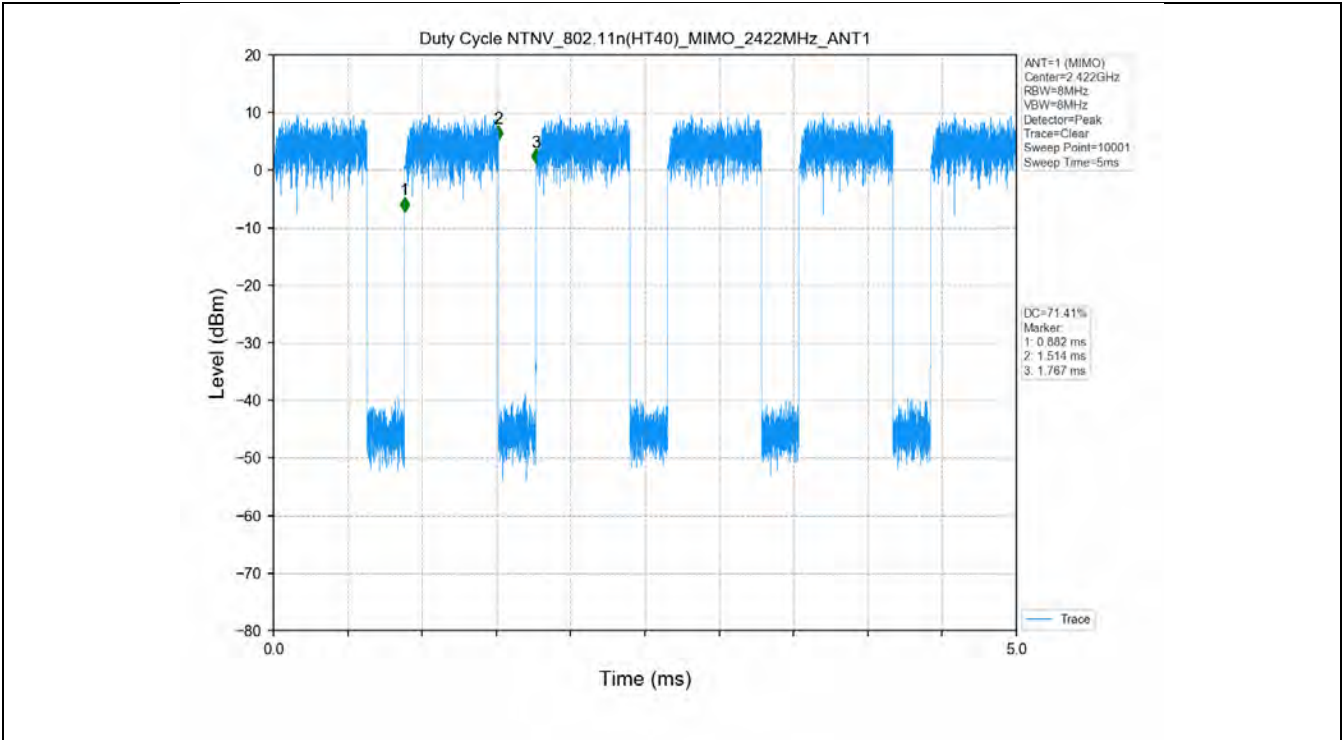
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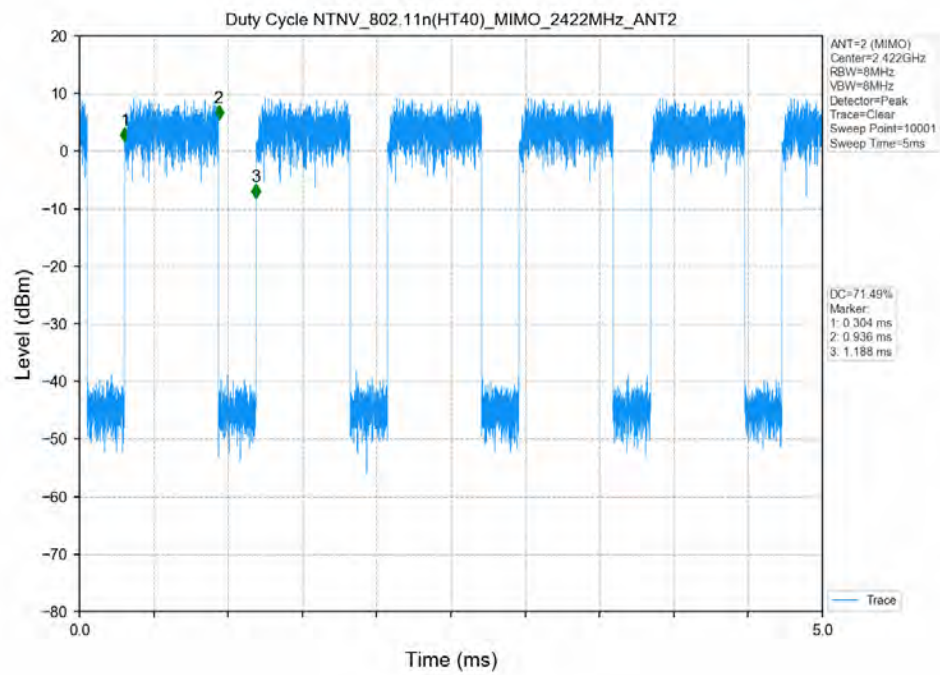
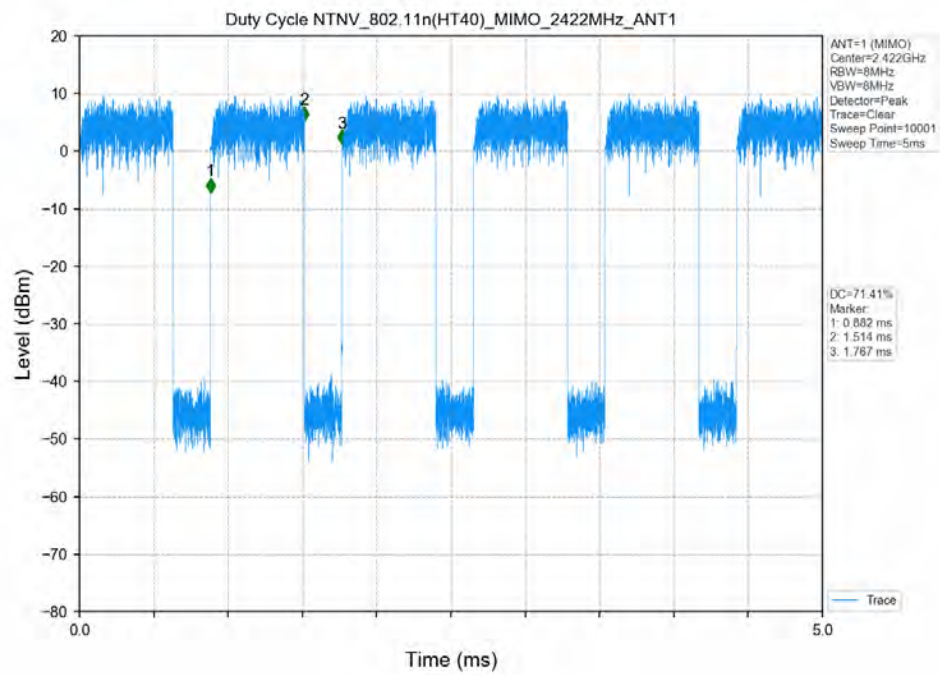


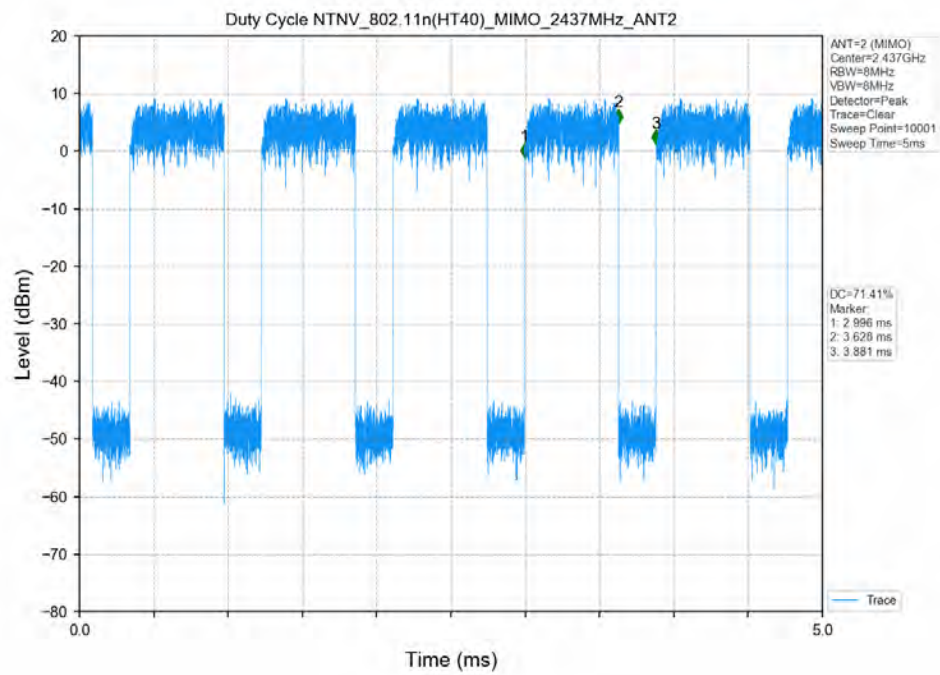
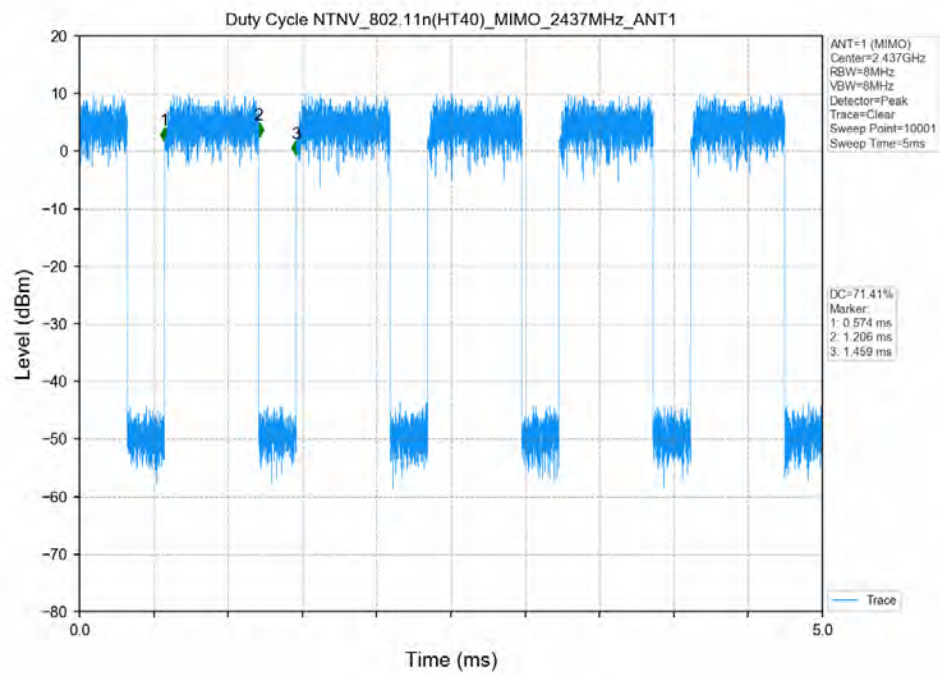


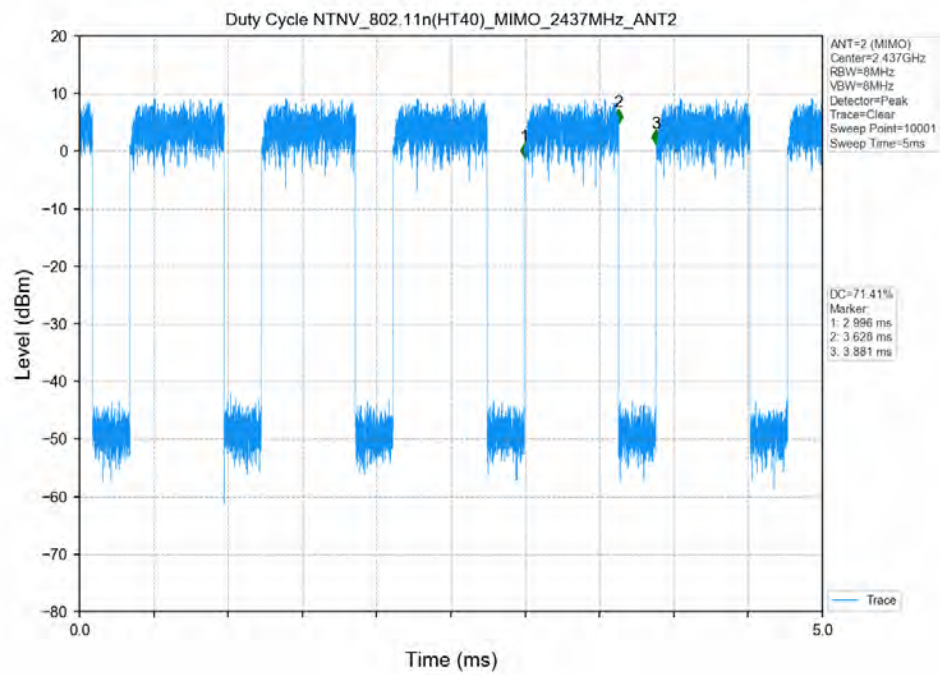
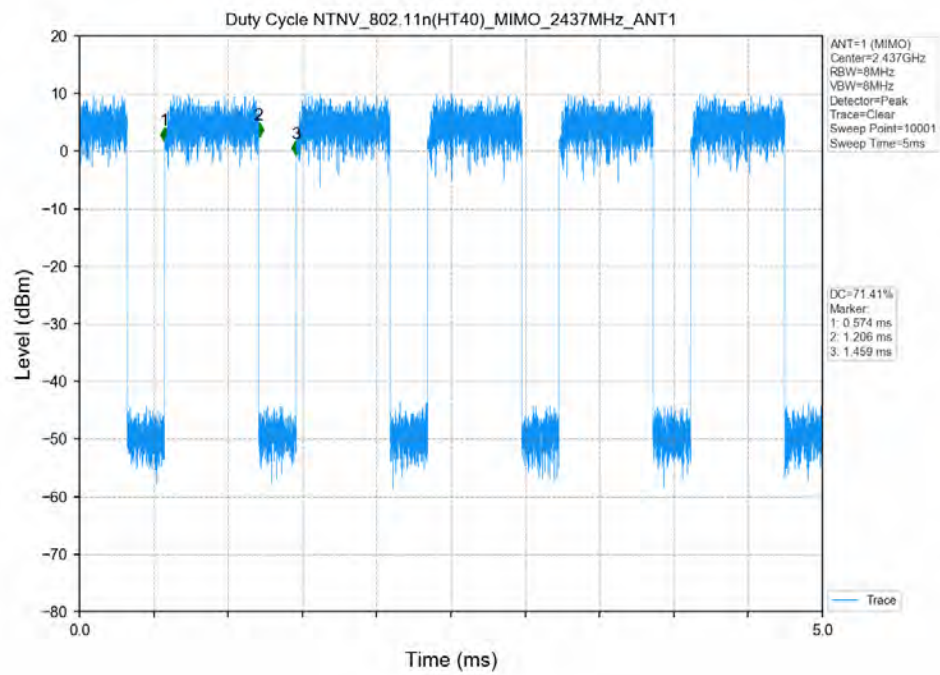


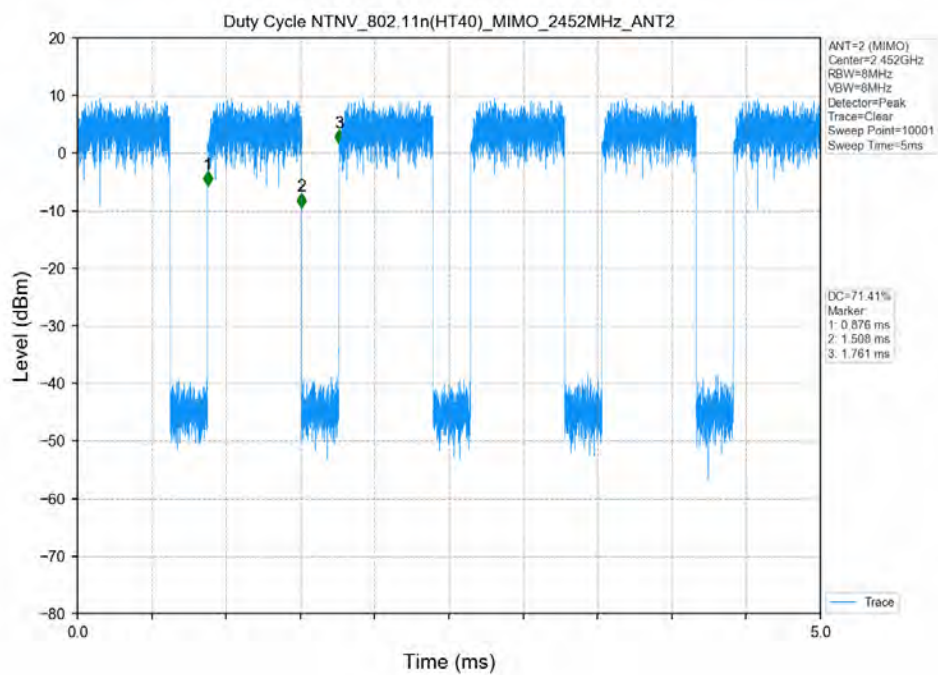
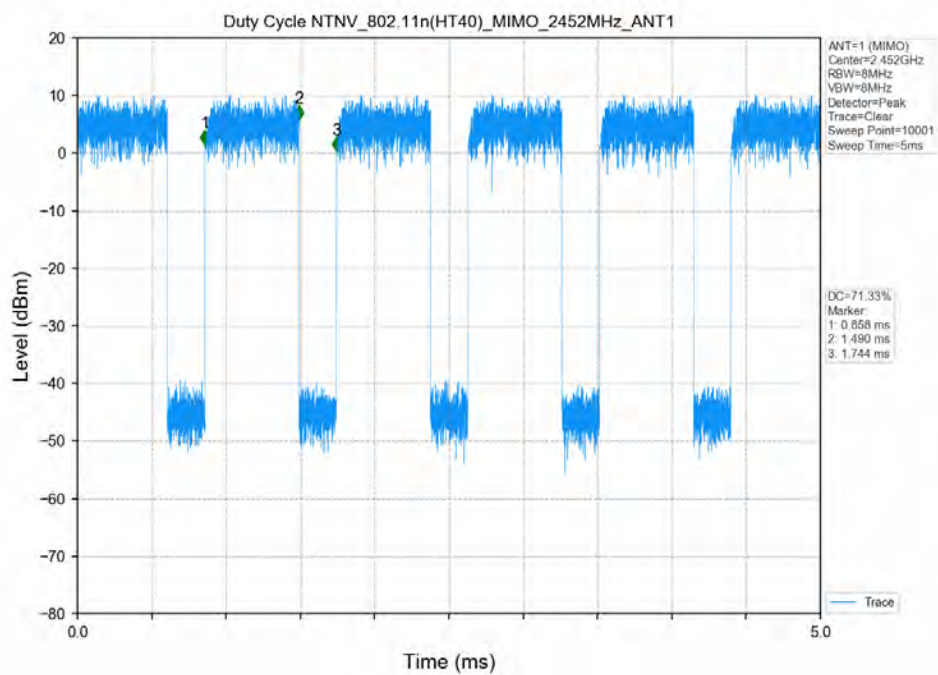


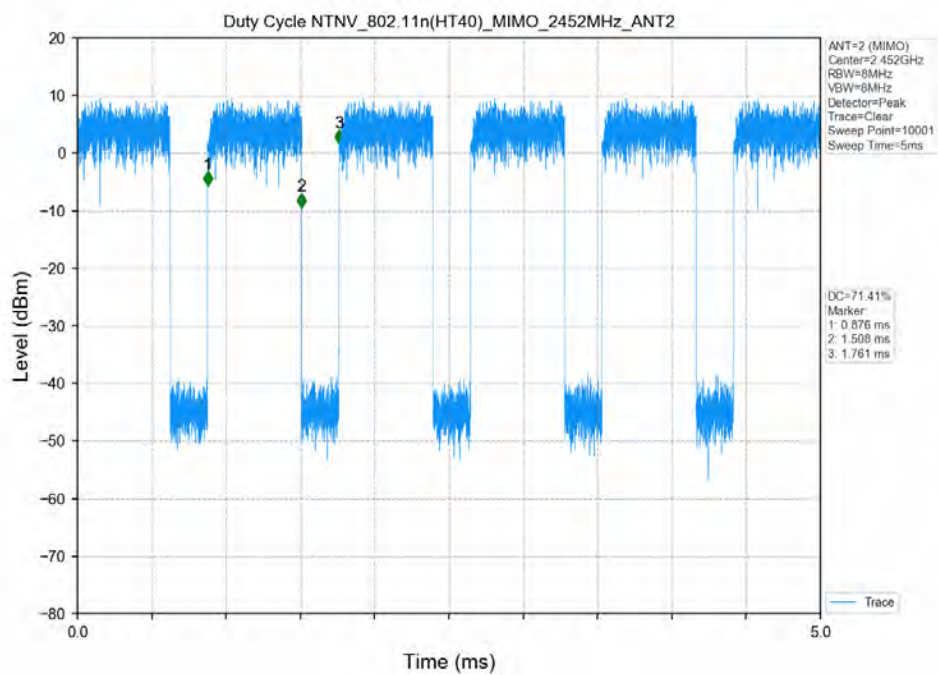
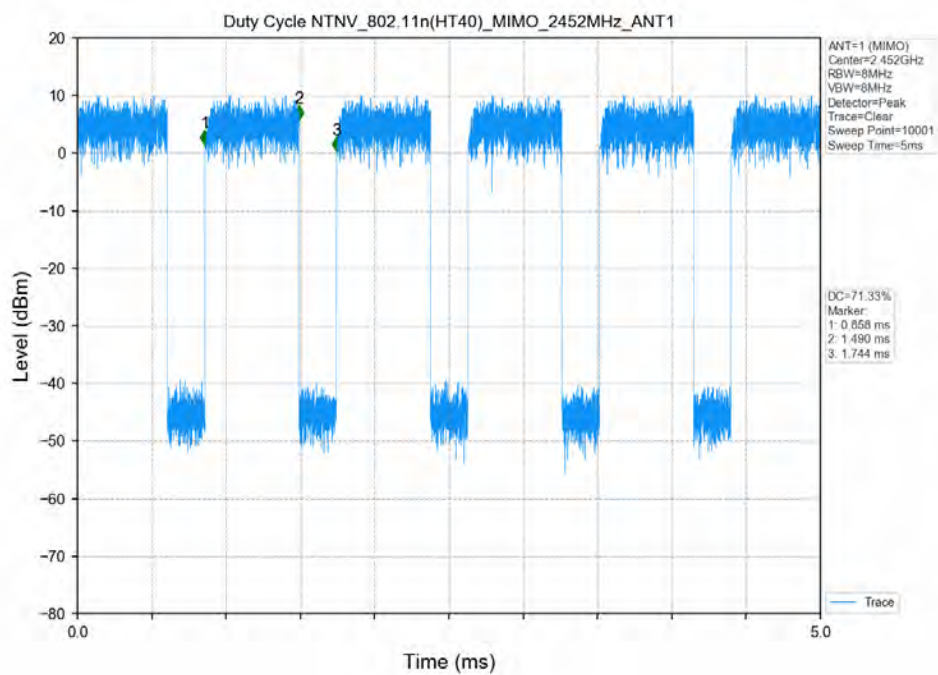














2. Bandwidth

2.1 Test Result

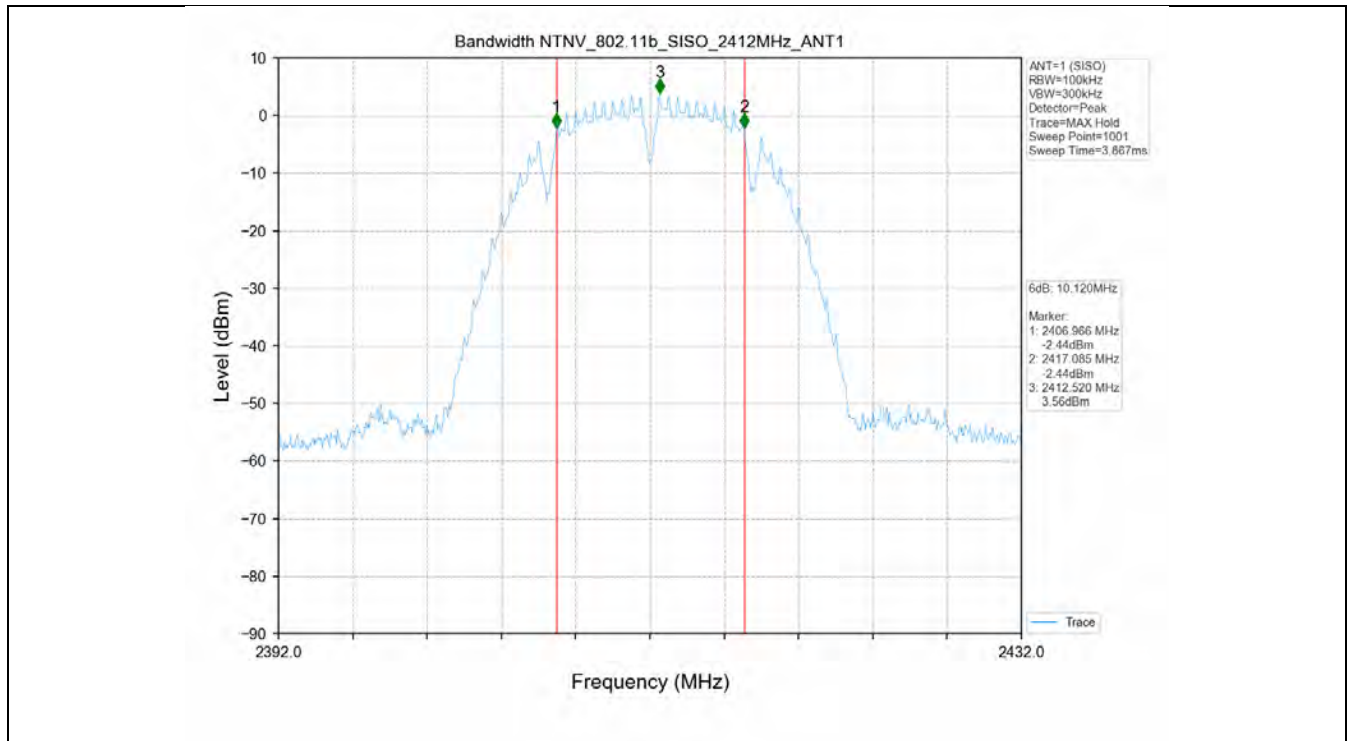
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	10.120	≥0.5	PASS
			2	10.135	≥0.5	PASS
	2437	SISO	1	10.107	≥0.5	PASS
			2	10.141	≥0.5	PASS
	2462	SISO	1	10.125	≥0.5	PASS
			2	10.129	≥0.5	PASS
802.11g	2412	SISO	1	15.107	≥0.5	PASS
			2	15.098	≥0.5	PASS
	2437	SISO	1	15.077	≥0.5	PASS
			2	15.098	≥0.5	PASS
	2462	SISO	1	13.870	≥0.5	PASS
			2	15.082	≥0.5	PASS
802.11n(HT20)	2412	MIMO	1	15.108	≥0.5	PASS
			2	15.084	≥0.5	PASS
	2437	MIMO	1	15.055	≥0.5	PASS
			2	15.117	≥0.5	PASS
	2462	MIMO	1	15.075	≥0.5	PASS
			2	15.098	≥0.5	PASS
802.11n(HT40)	2422	MIMO	1	25.076	≥0.5	PASS
			2	25.093	≥0.5	PASS
	2437	MIMO	1	23.879	≥0.5	PASS
			2	23.883	≥0.5	PASS
	2452	MIMO	1	23.875	≥0.5	PASS
			2	23.882	≥0.5	PASS

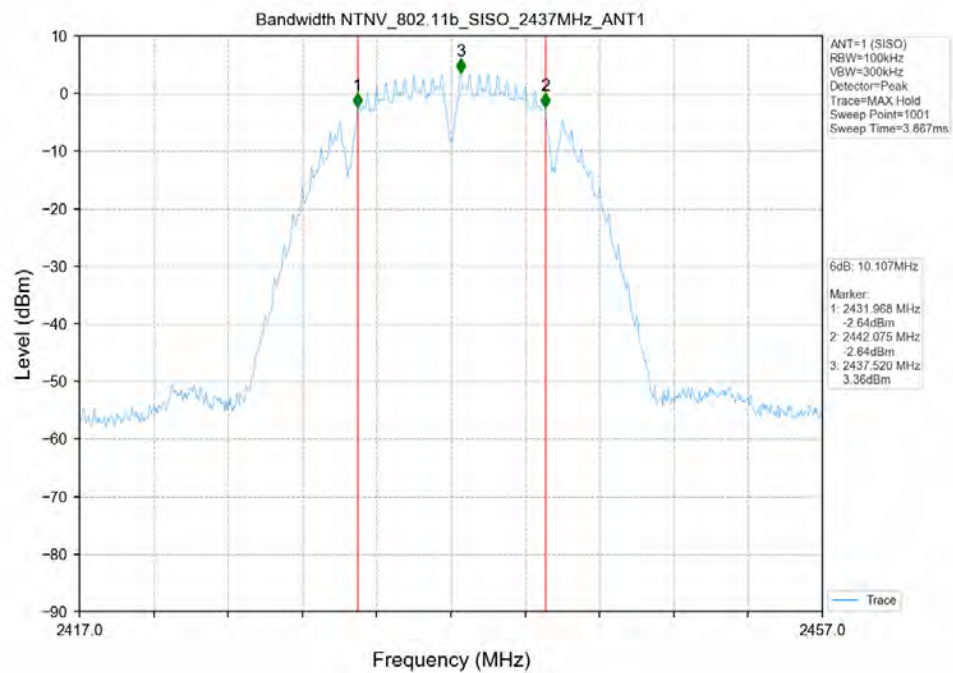
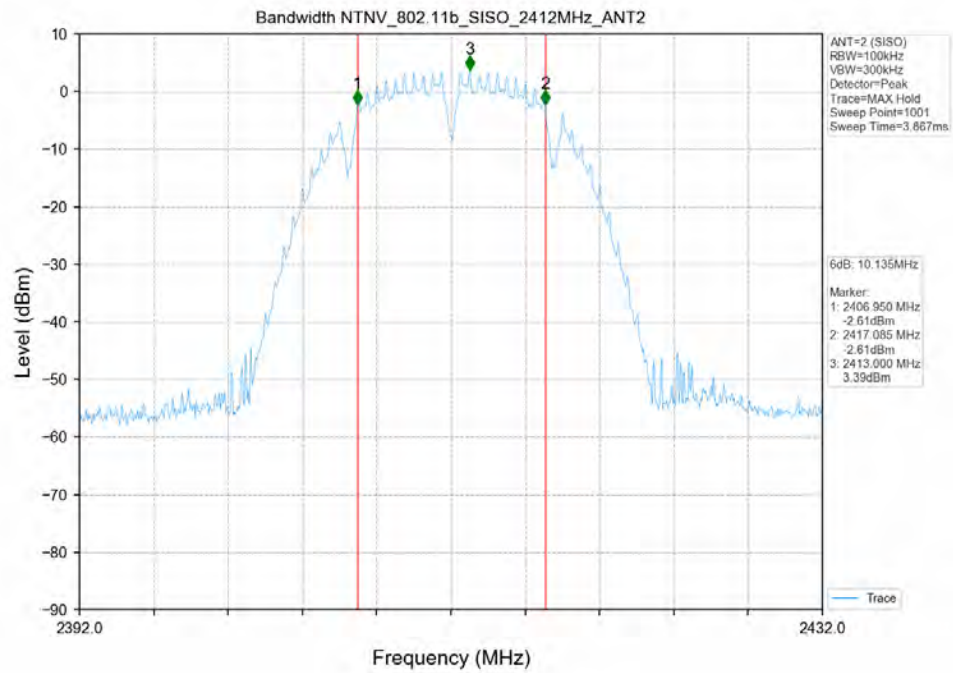
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	13.766	Only for Report Use
			2	13.720	Only for Report Use
	2437	SISO	1	13.786	Only for Report Use
			2	13.726	Only for Report Use
	2462	SISO	1	13.793	Only for Report Use
			2	13.727	Only for Report Use
802.11g	2412	SISO	1	16.355	Only for Report Use
			2	16.327	Only for Report Use
	2437	SISO	1	16.328	Only for Report Use
			2	16.324	Only for Report Use
	2462	SISO	1	16.342	Only for Report Use
			2	16.307	Only for Report Use
802.11n(HT20)	2412	MIMO	1	17.487	Only for Report Use
			2	17.471	Only for Report Use
	2437	MIMO	1	17.485	Only for Report Use
			2	17.480	Only for Report Use
	2462	MIMO	1	17.483	Only for Report Use
			2	17.470	Only for Report Use
802.11n(HT40)	2422	MIMO	1	34.505	Only for Report Use
			2	34.472	Only for Report Use
	2437	MIMO	1	34.525	Only for Report Use



	2452	MIMO	2	34.505	Only for Report Use
			1	34.548	Only for Report Use
			2	34.486	Only for Report Use

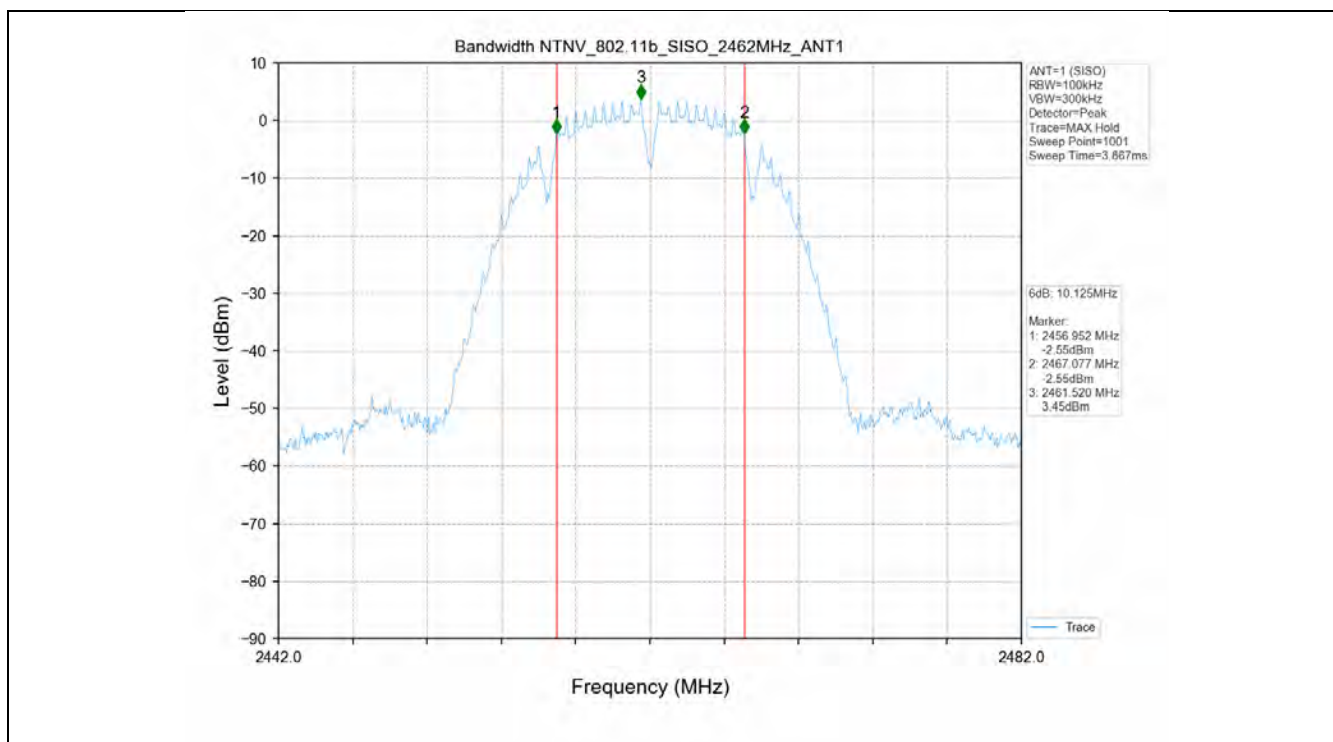
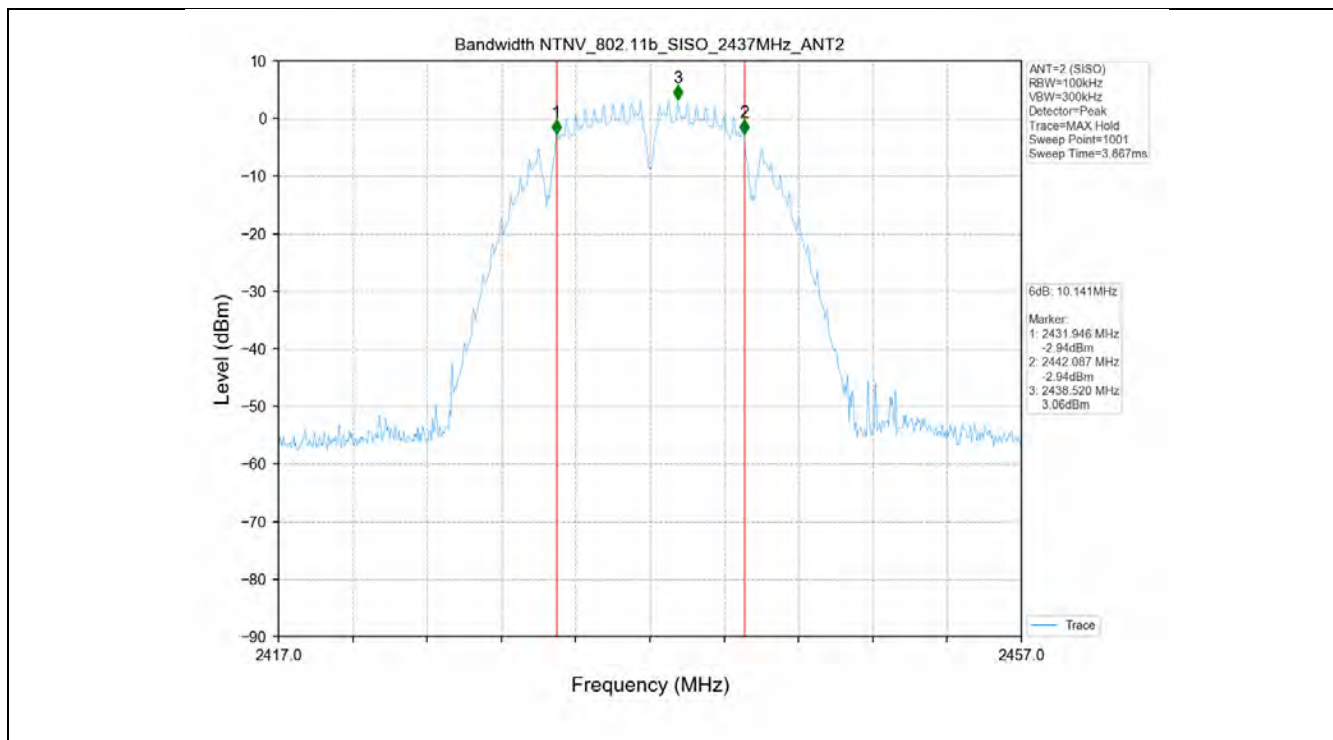
2.2 Test Graph - 6dB Bandwidth

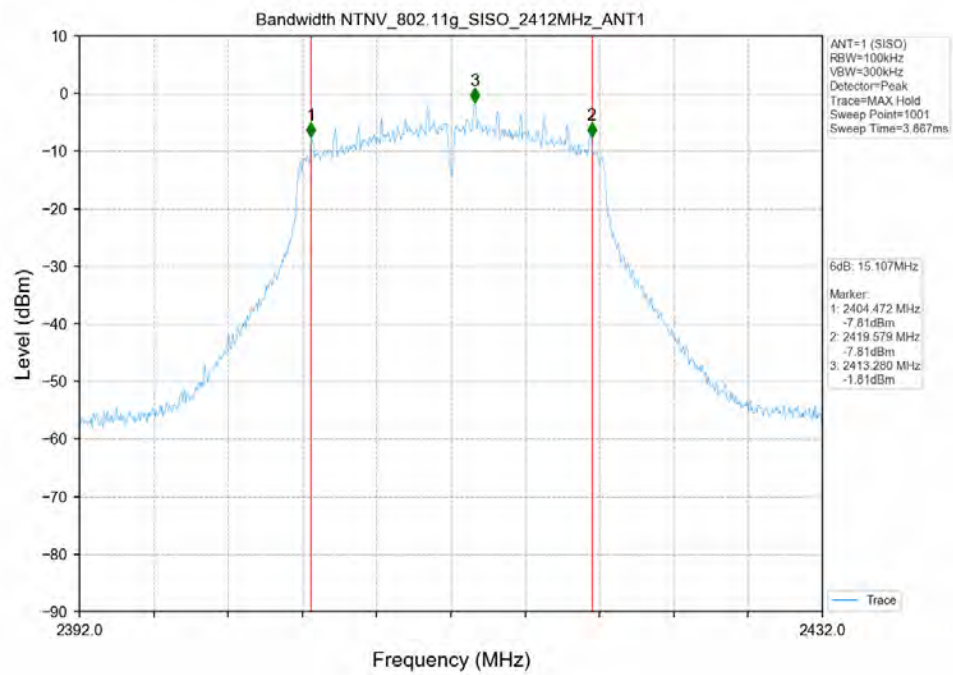
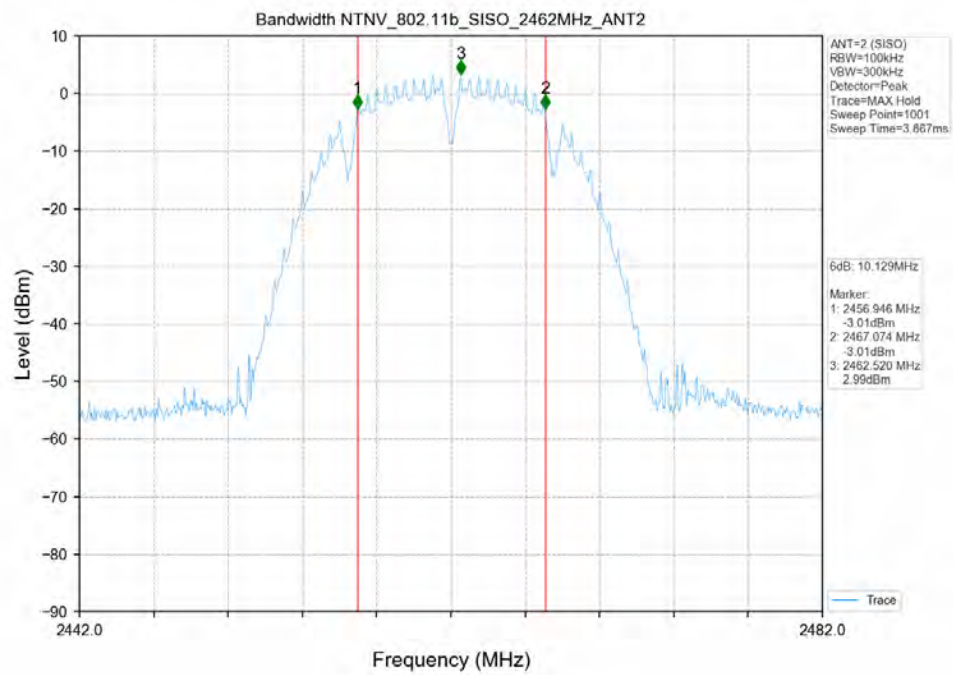






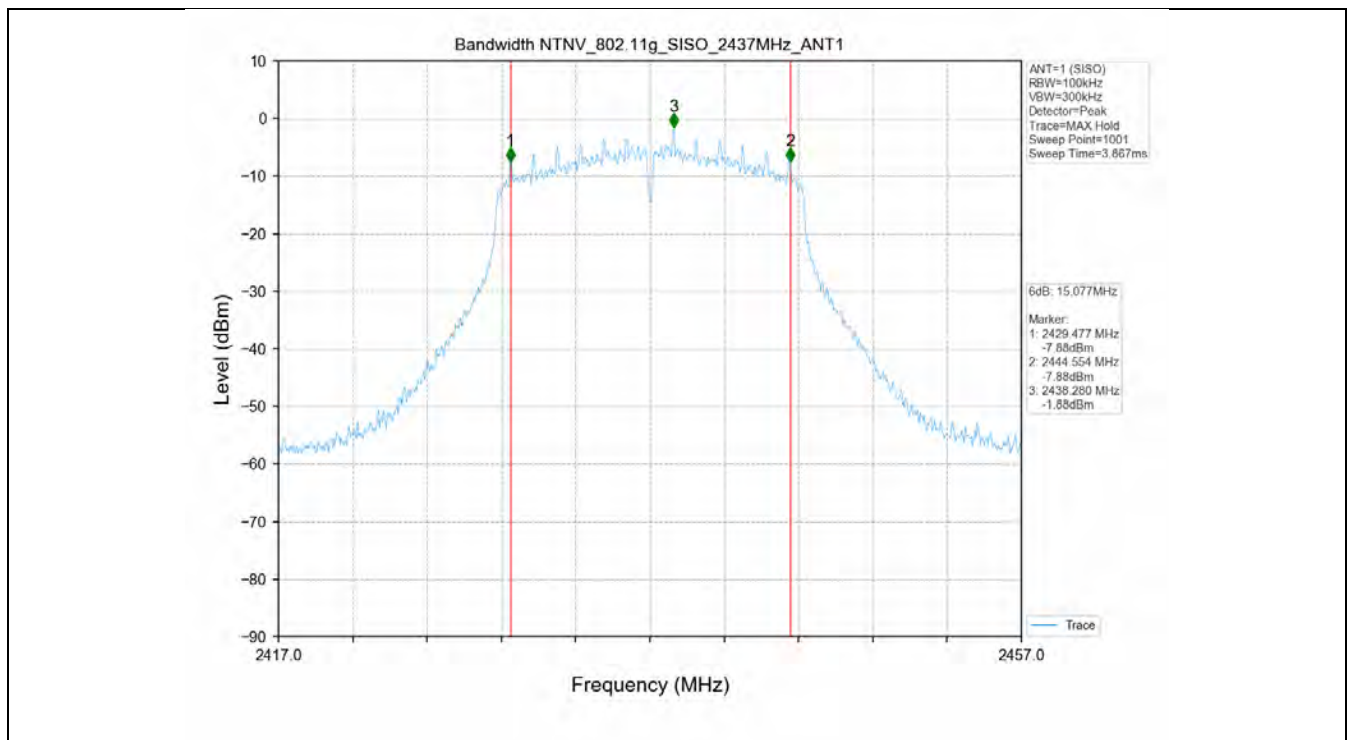
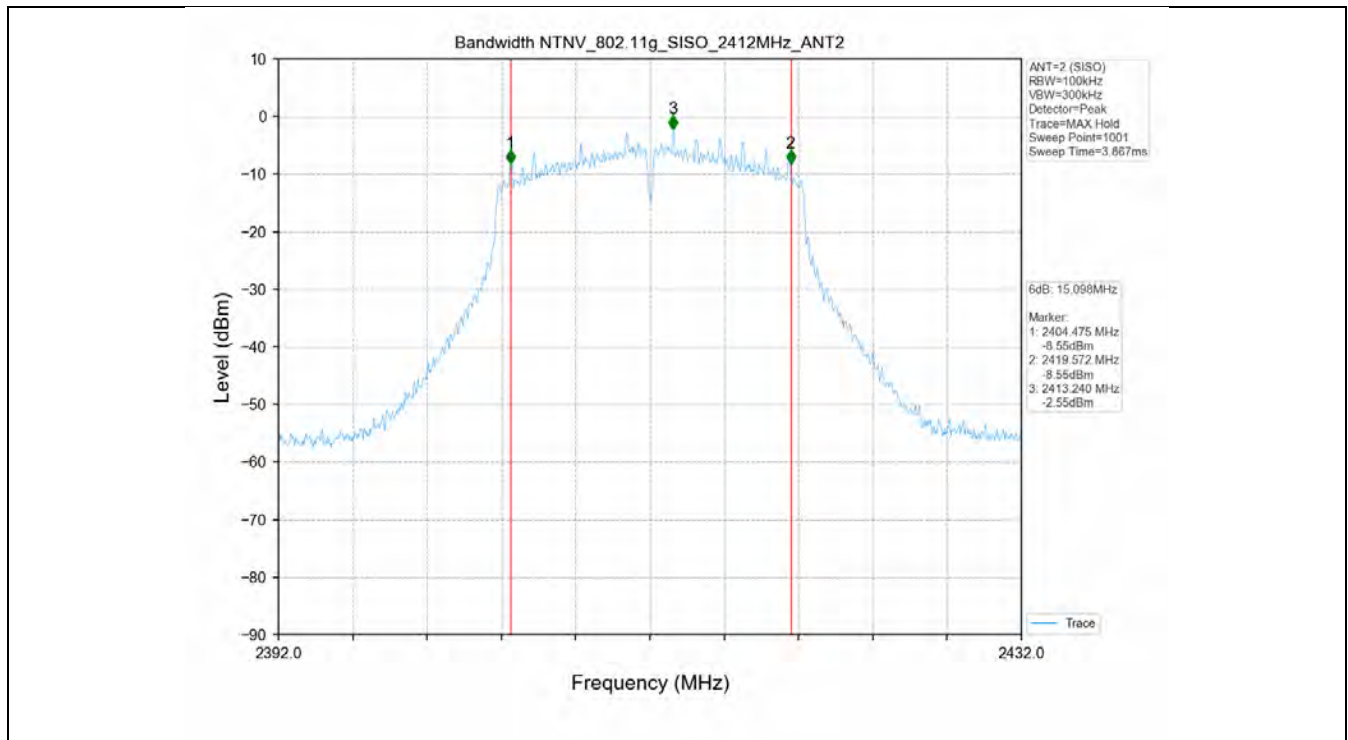
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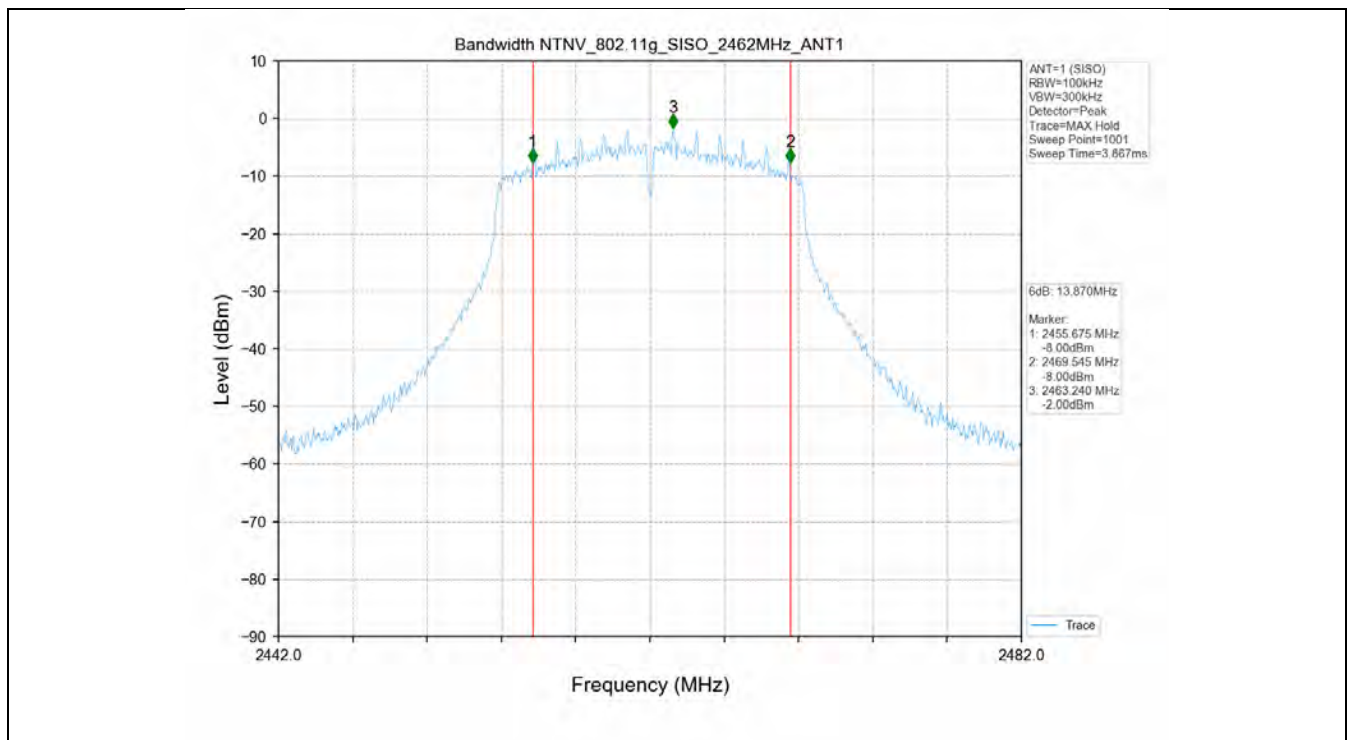
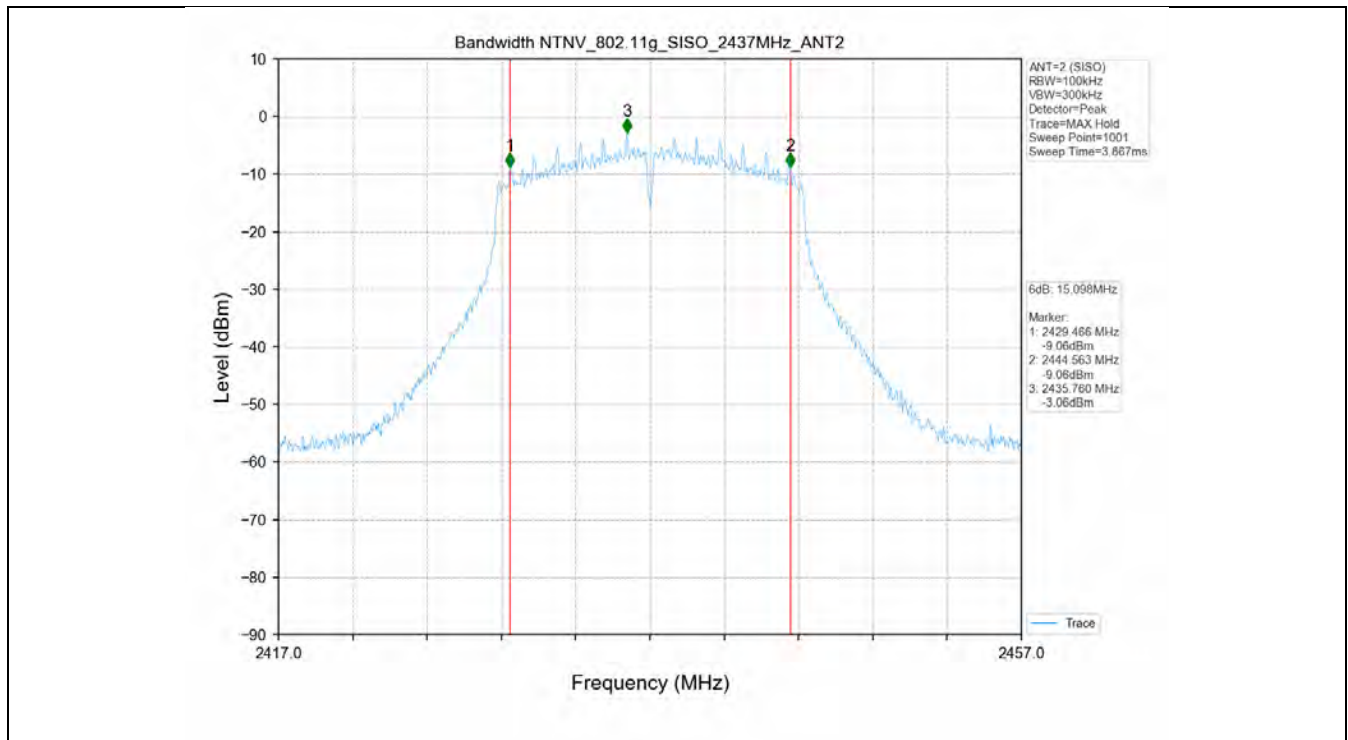


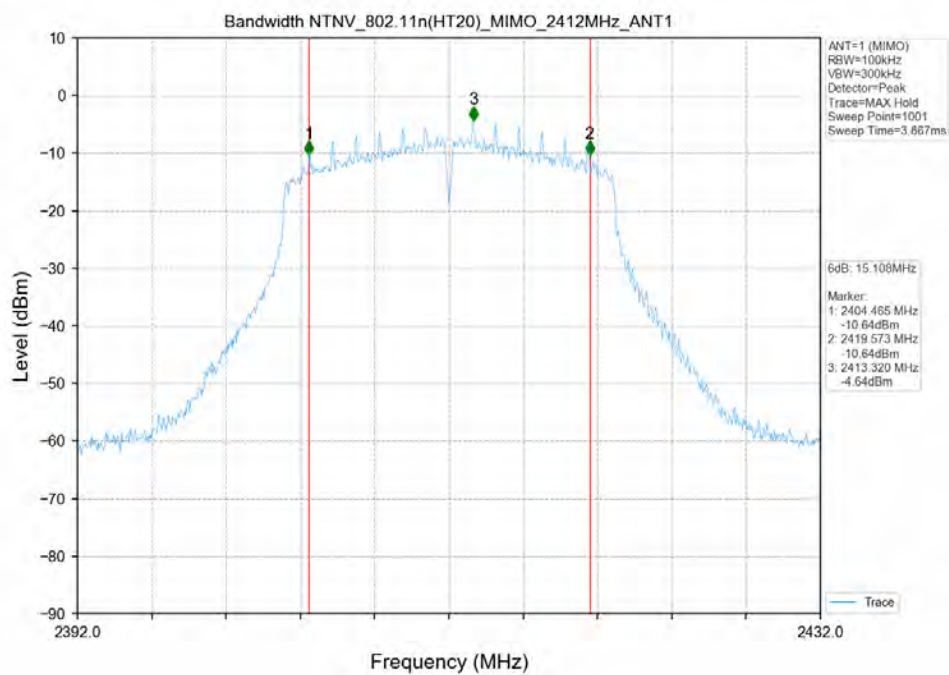
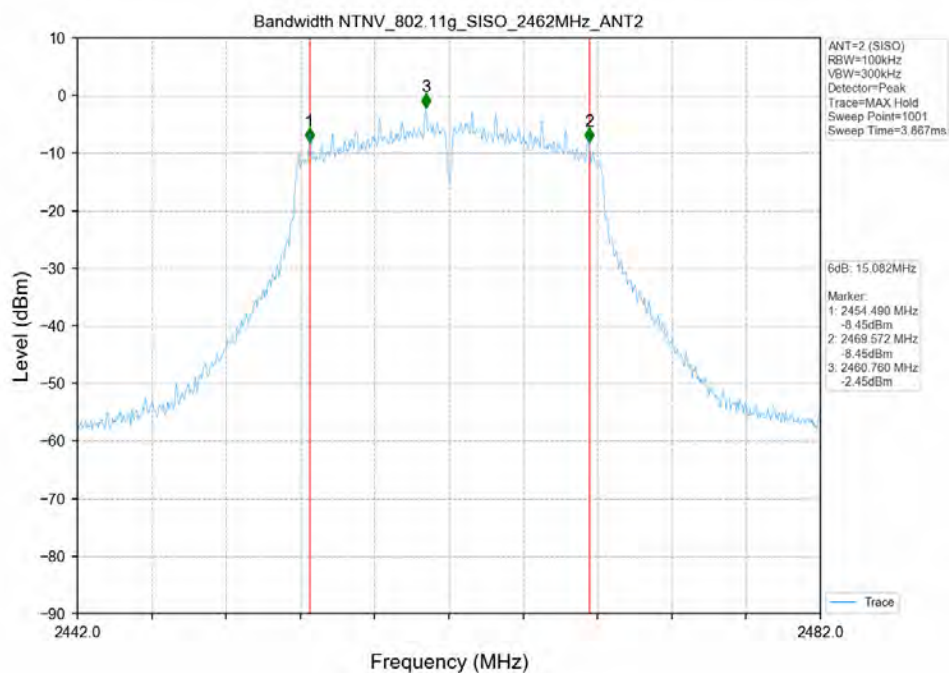


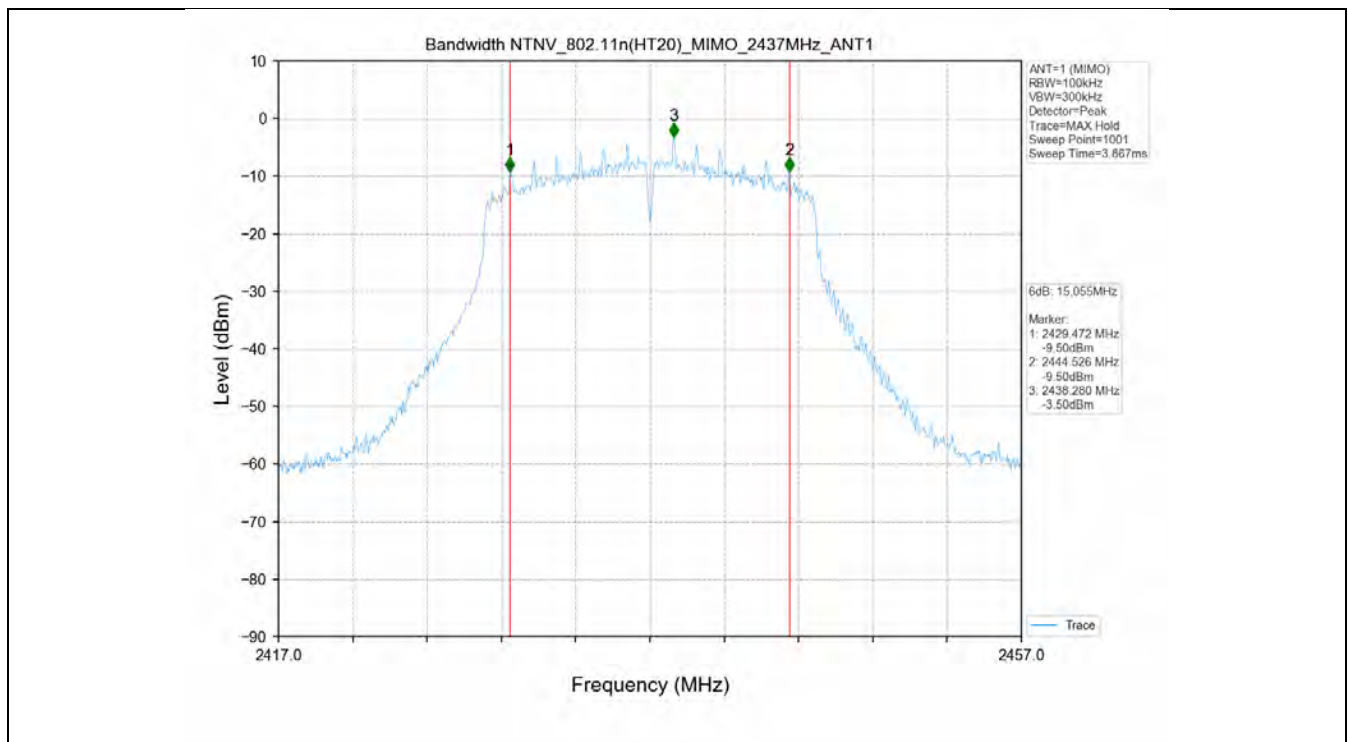
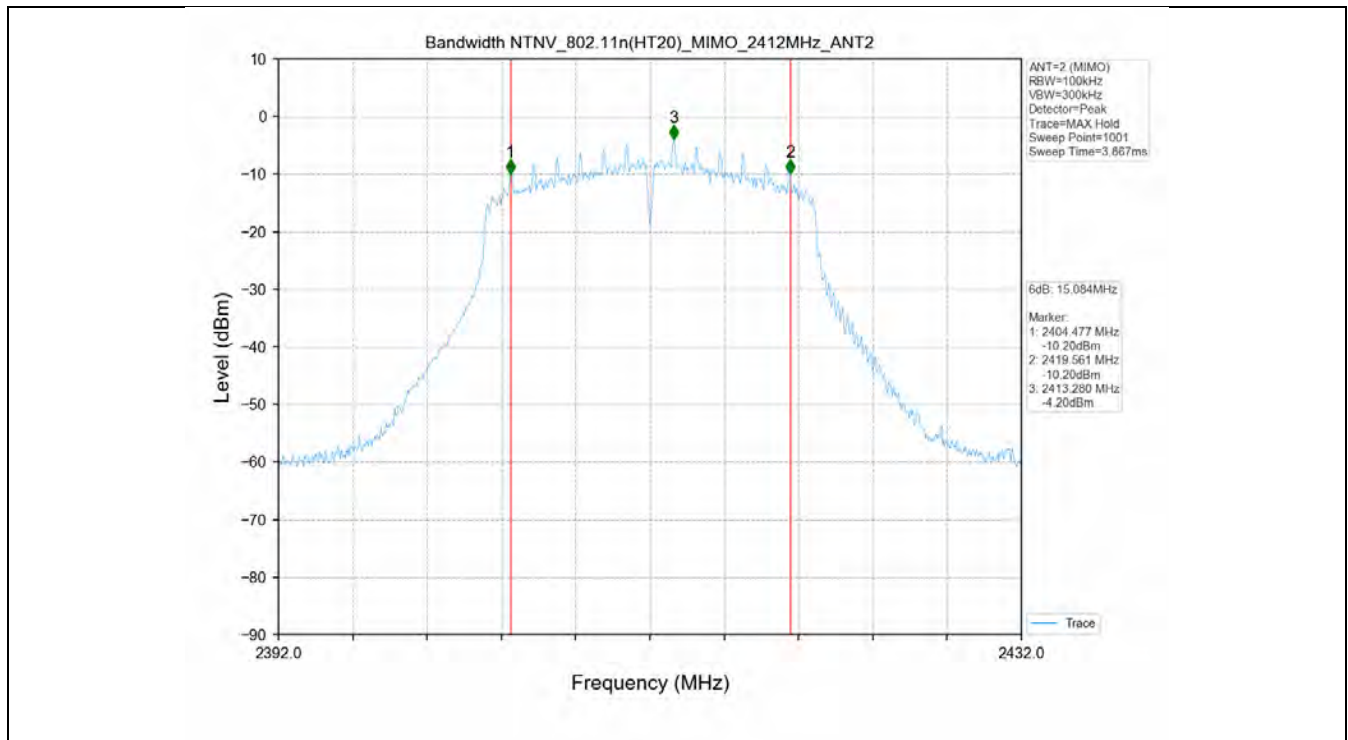


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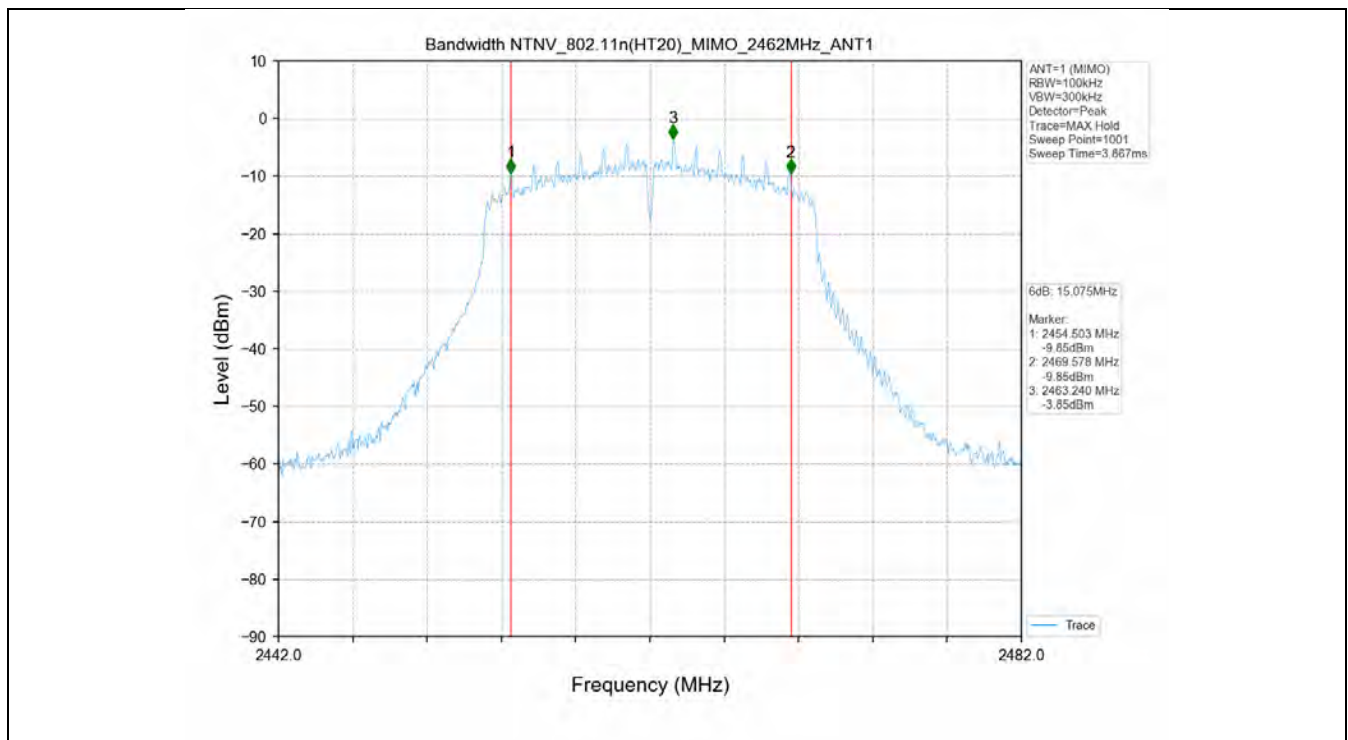
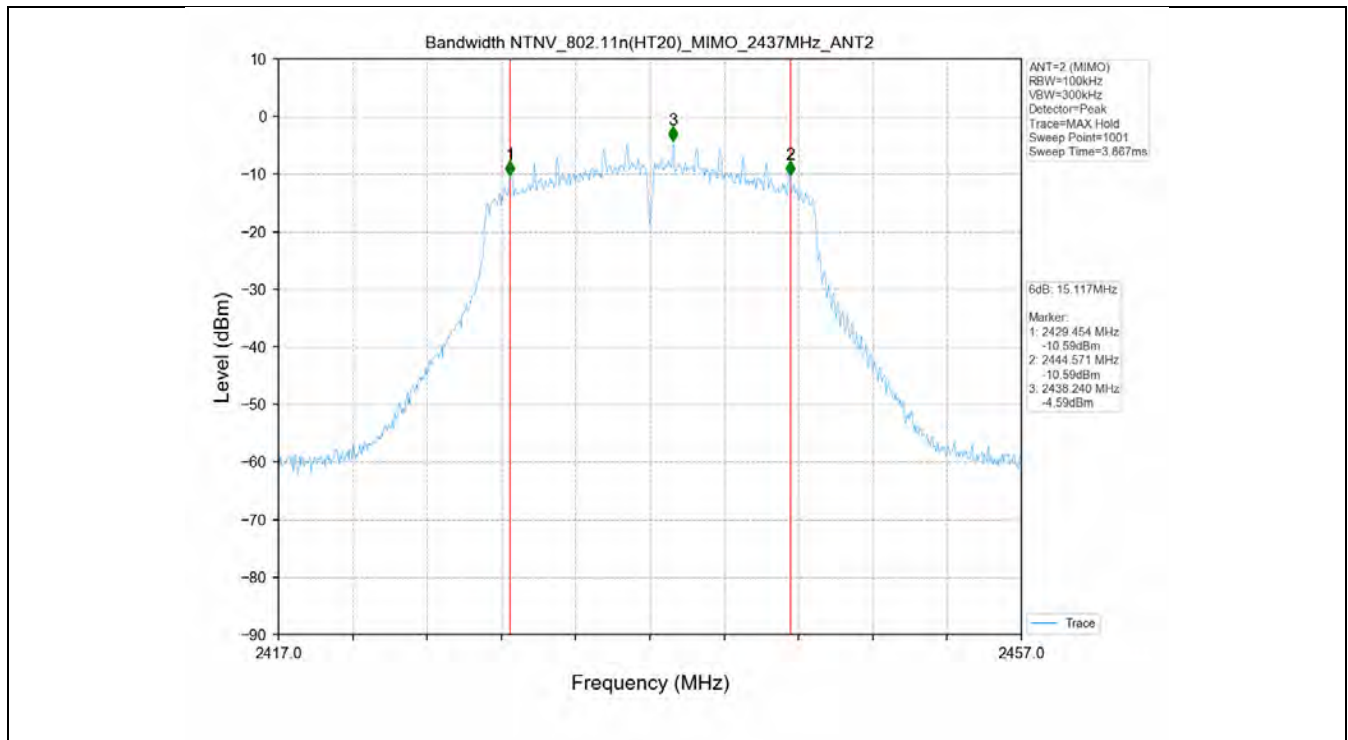






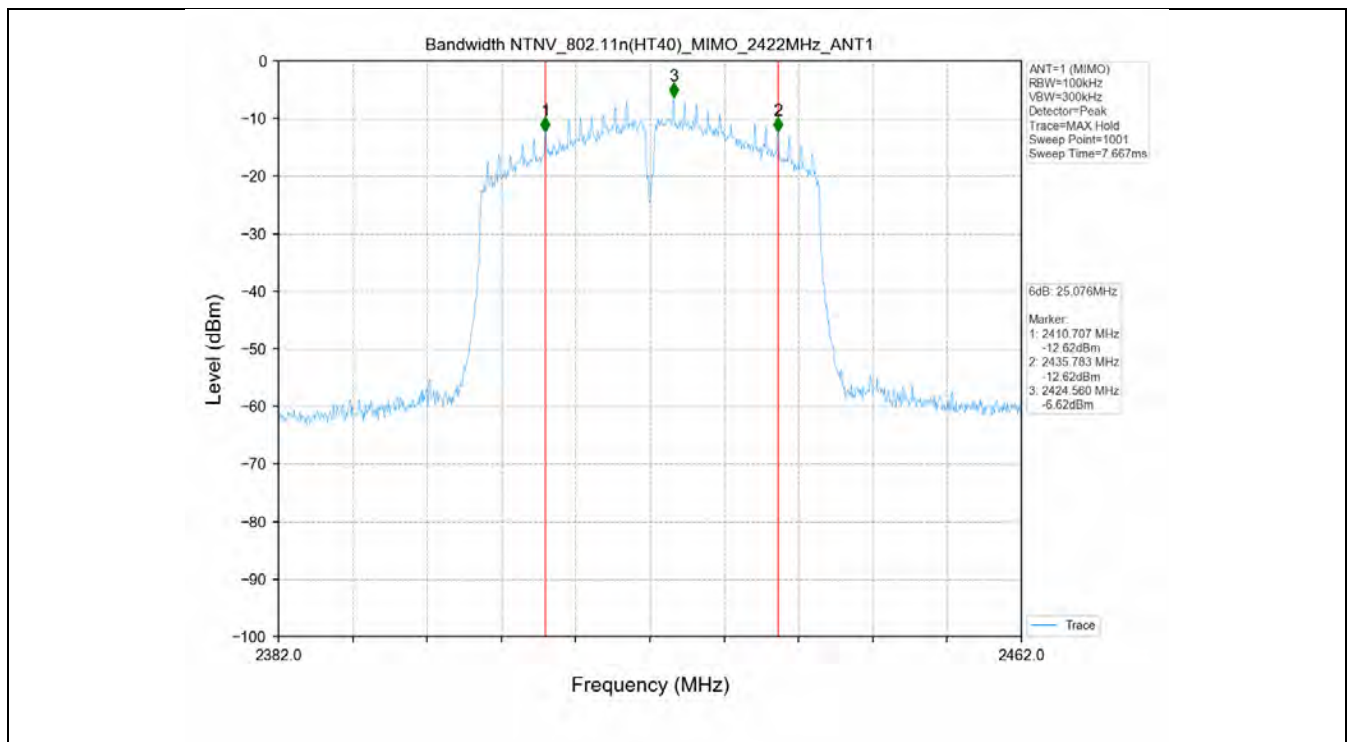
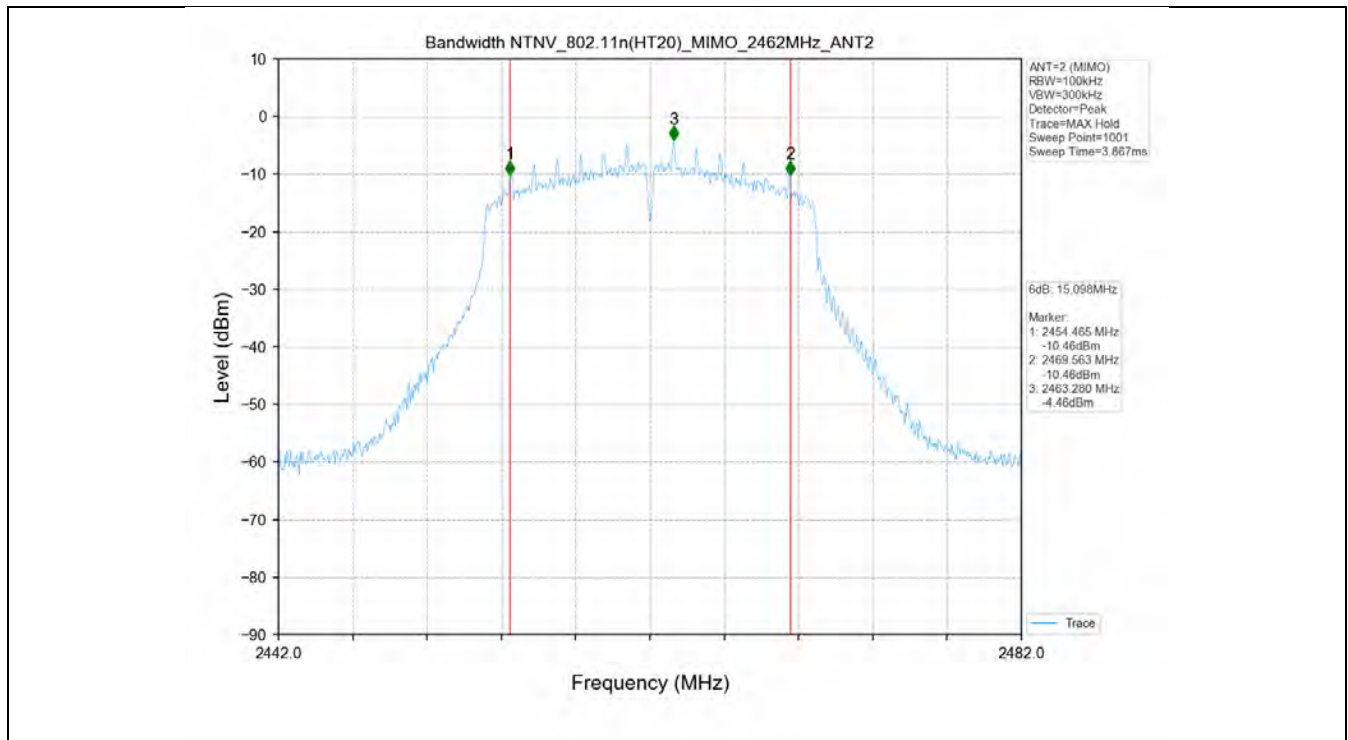


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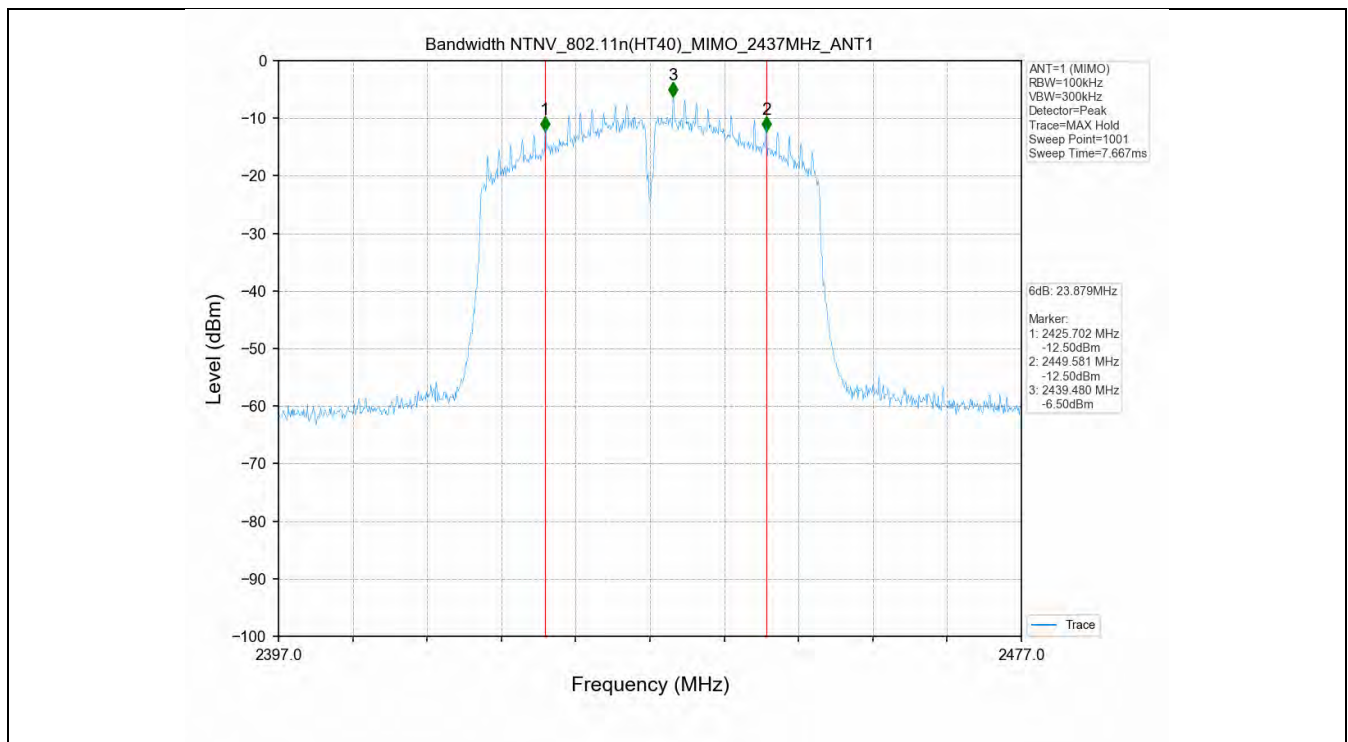
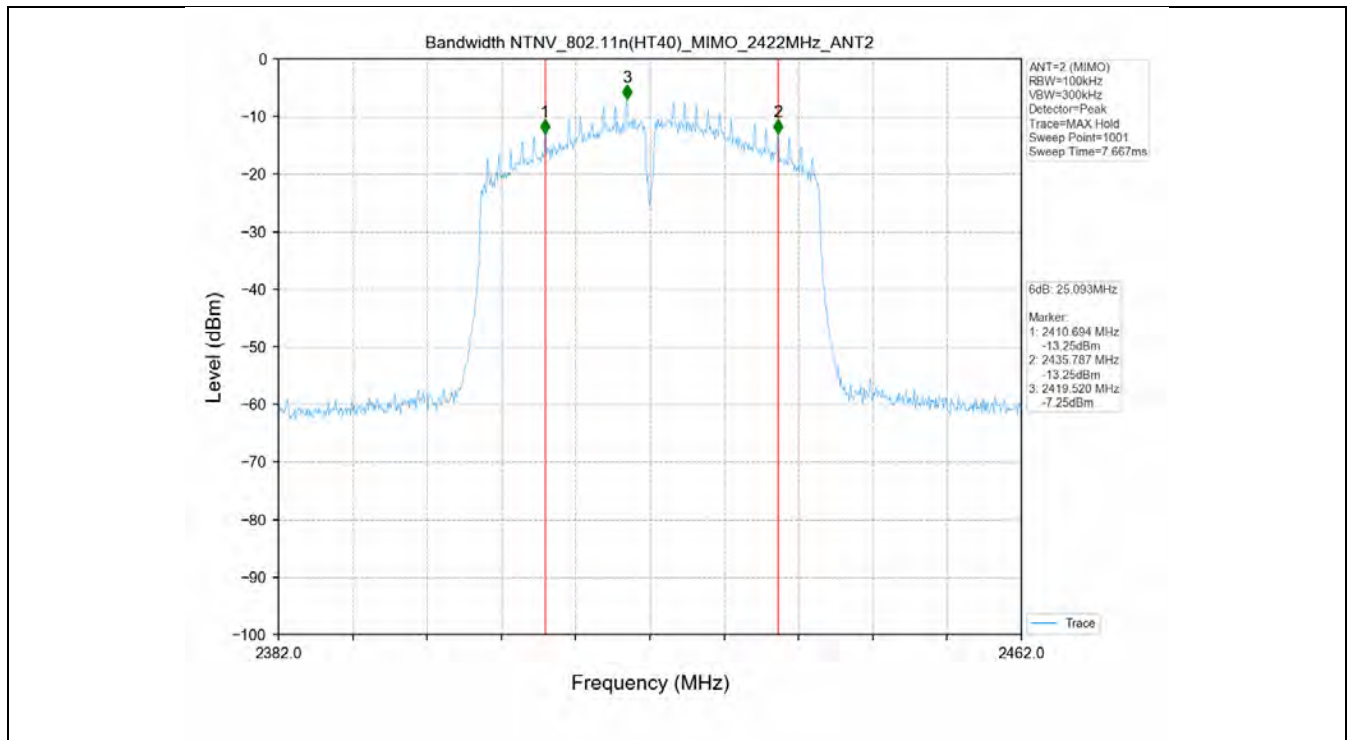


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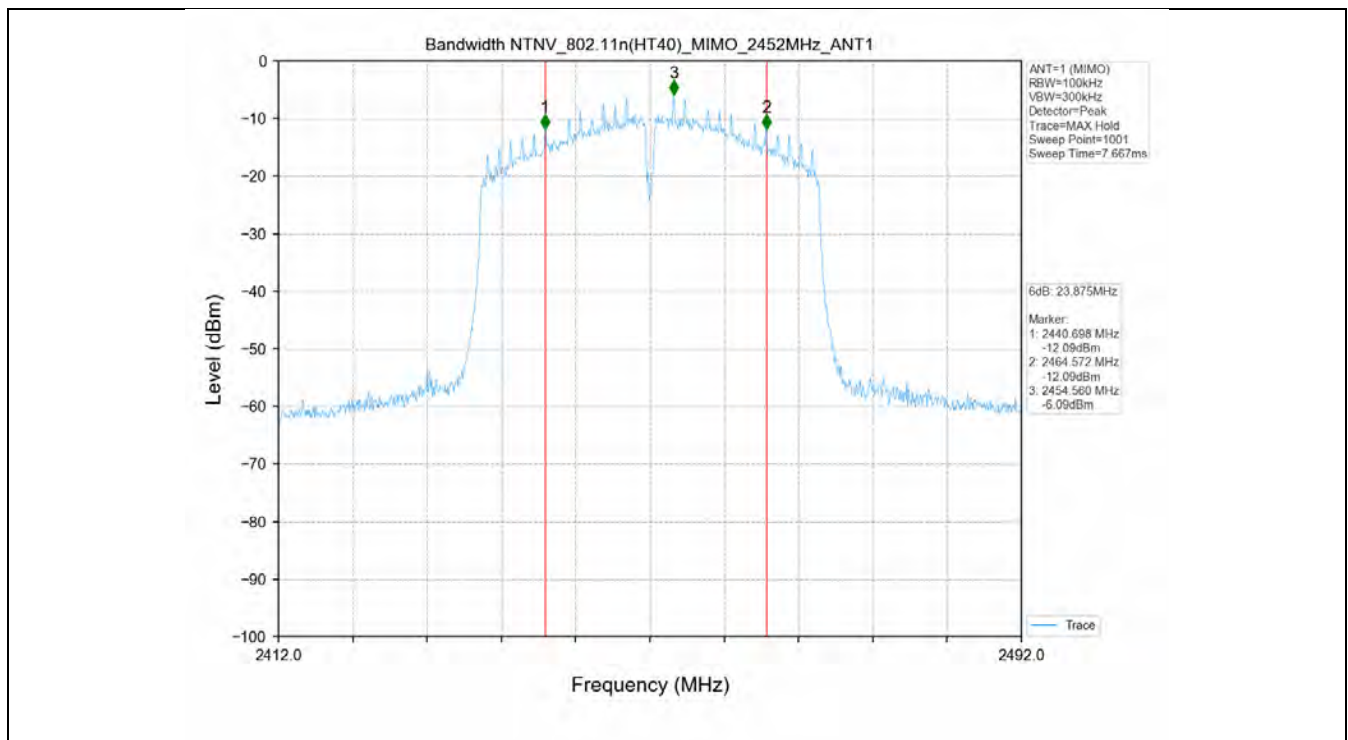
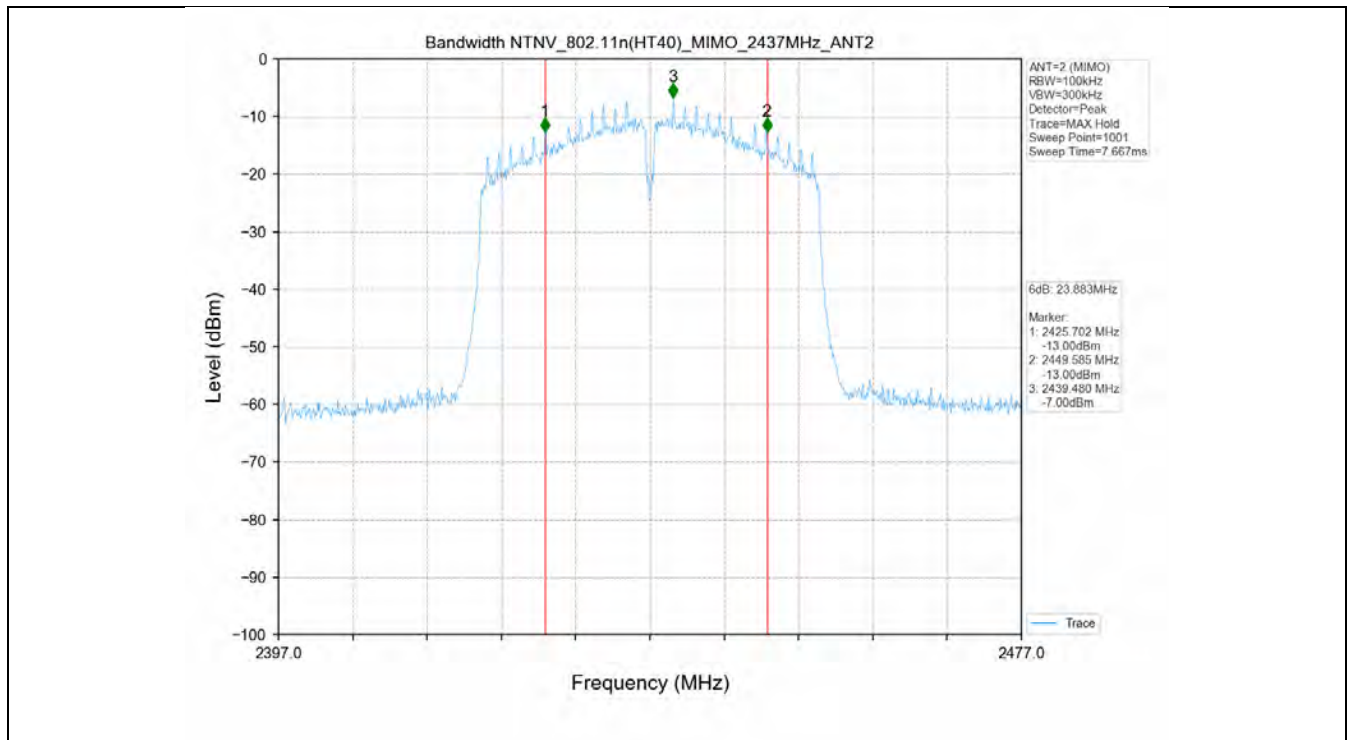


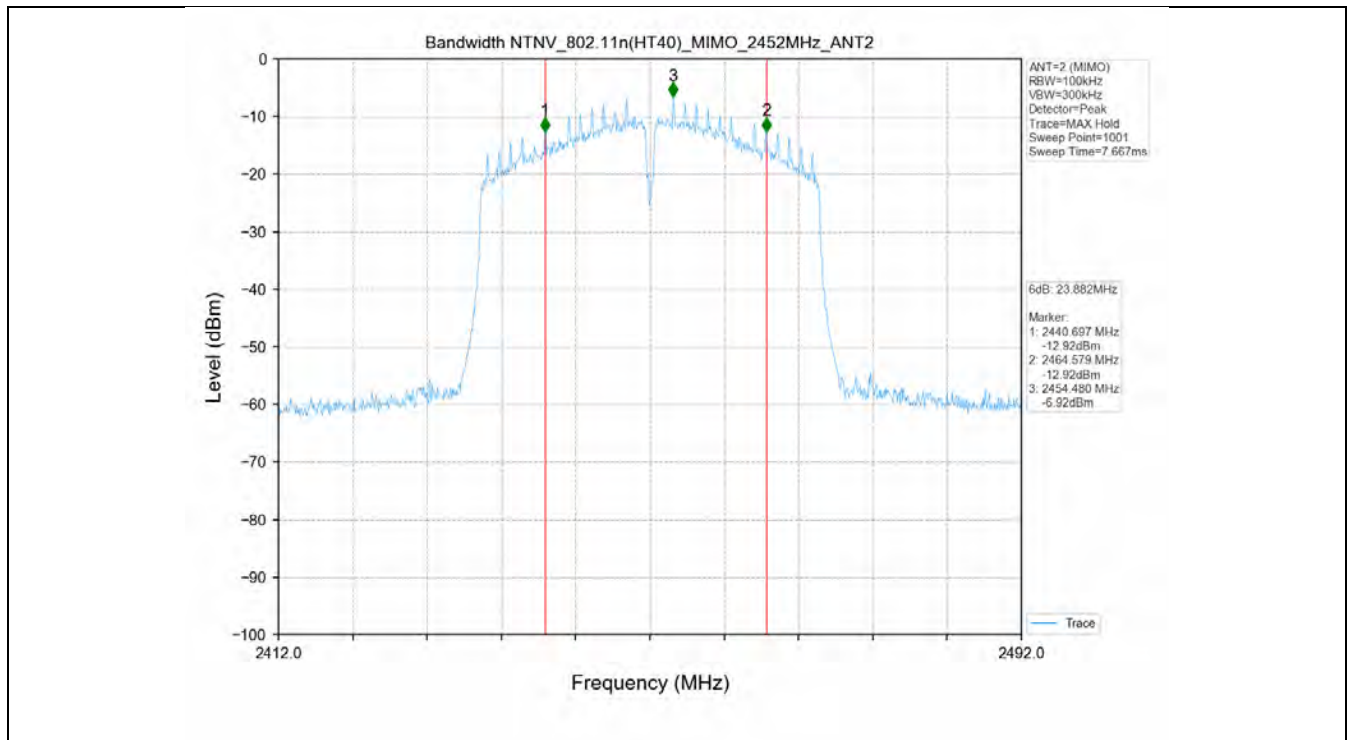
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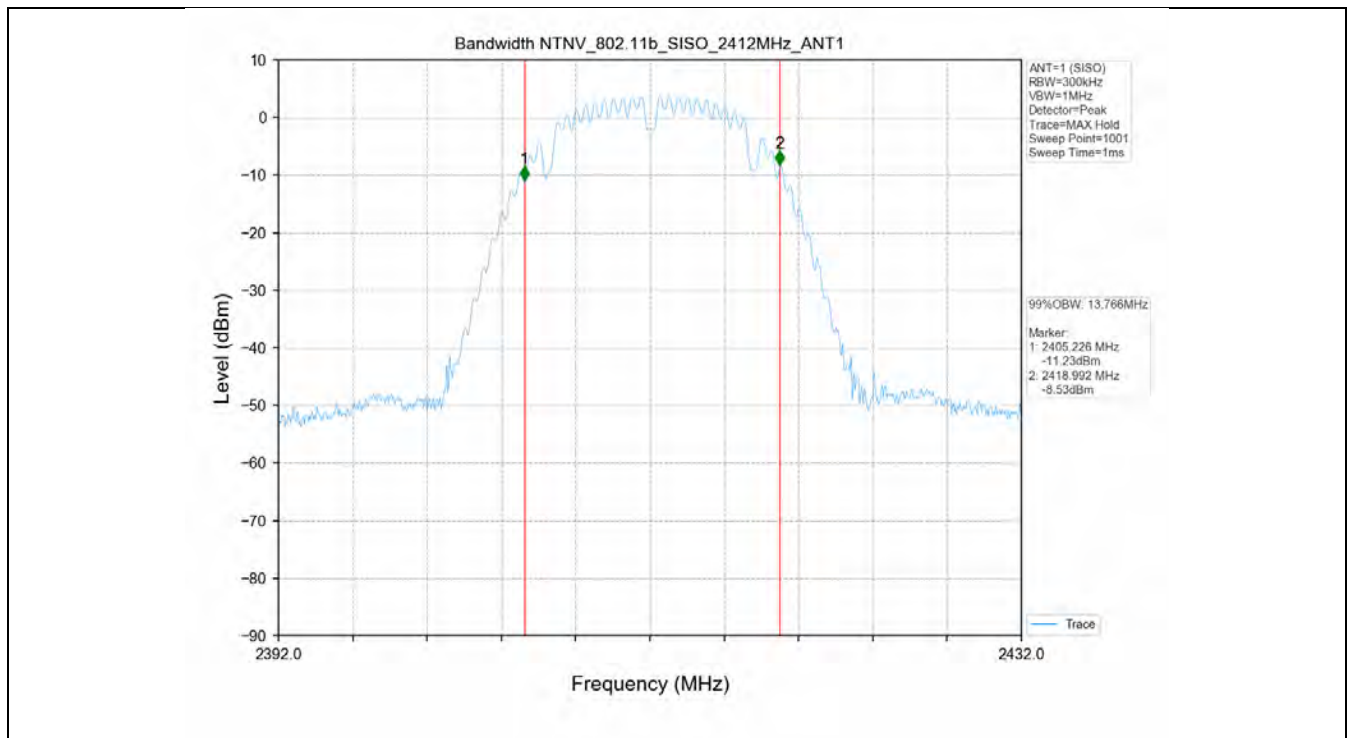


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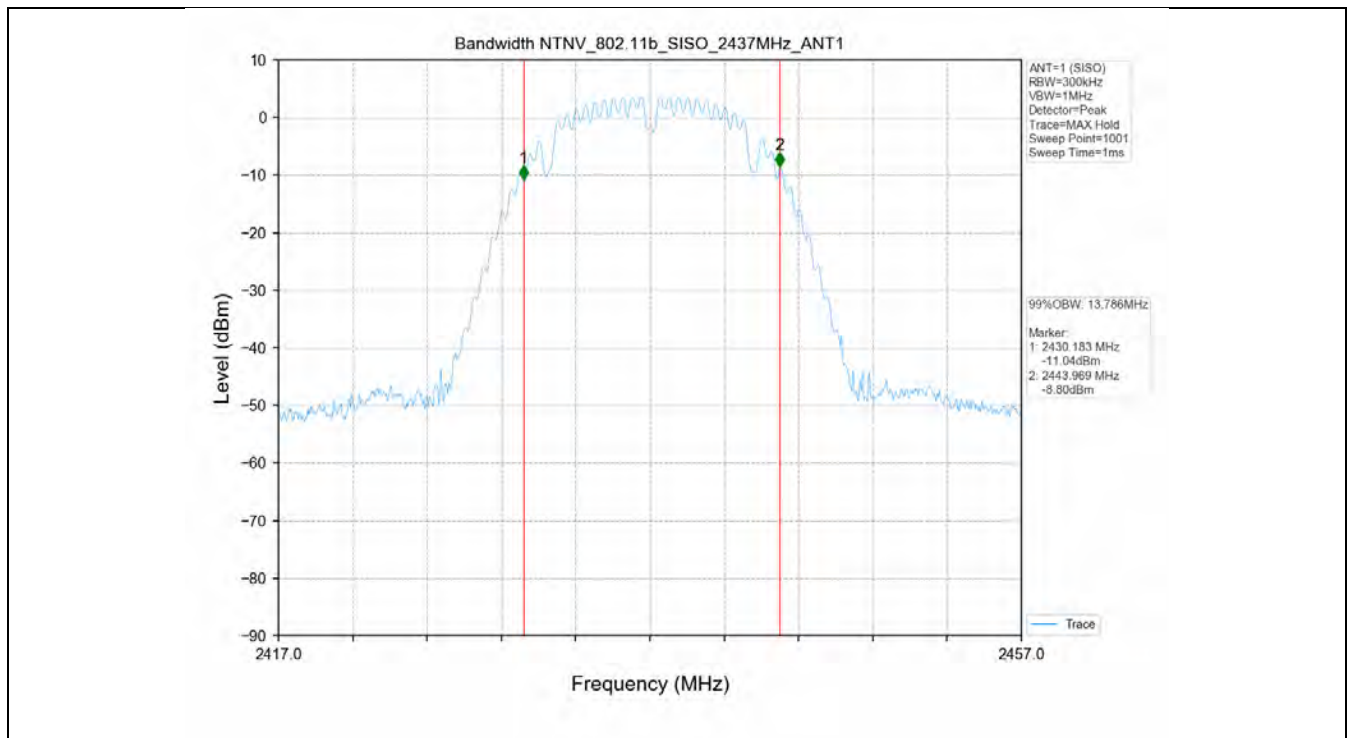
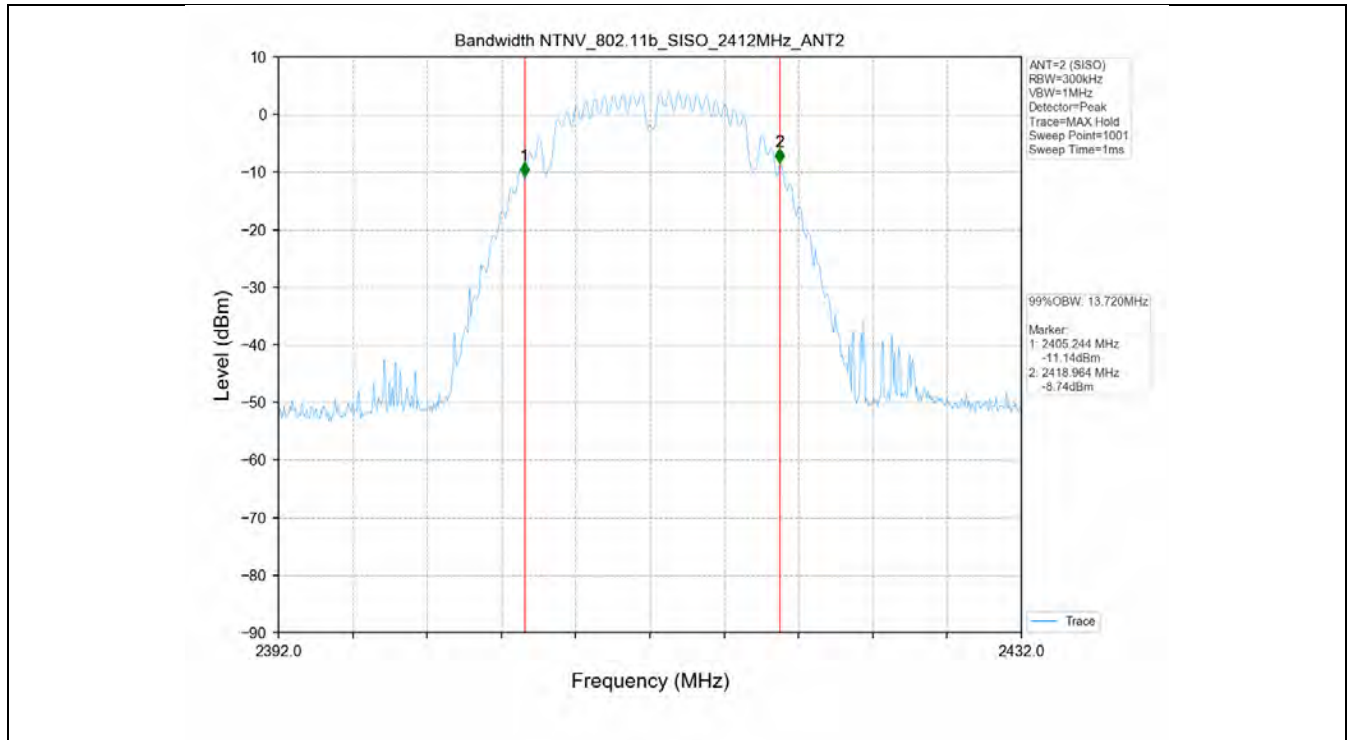


2.3 Test Graph - 99% Occupied Bandwidth



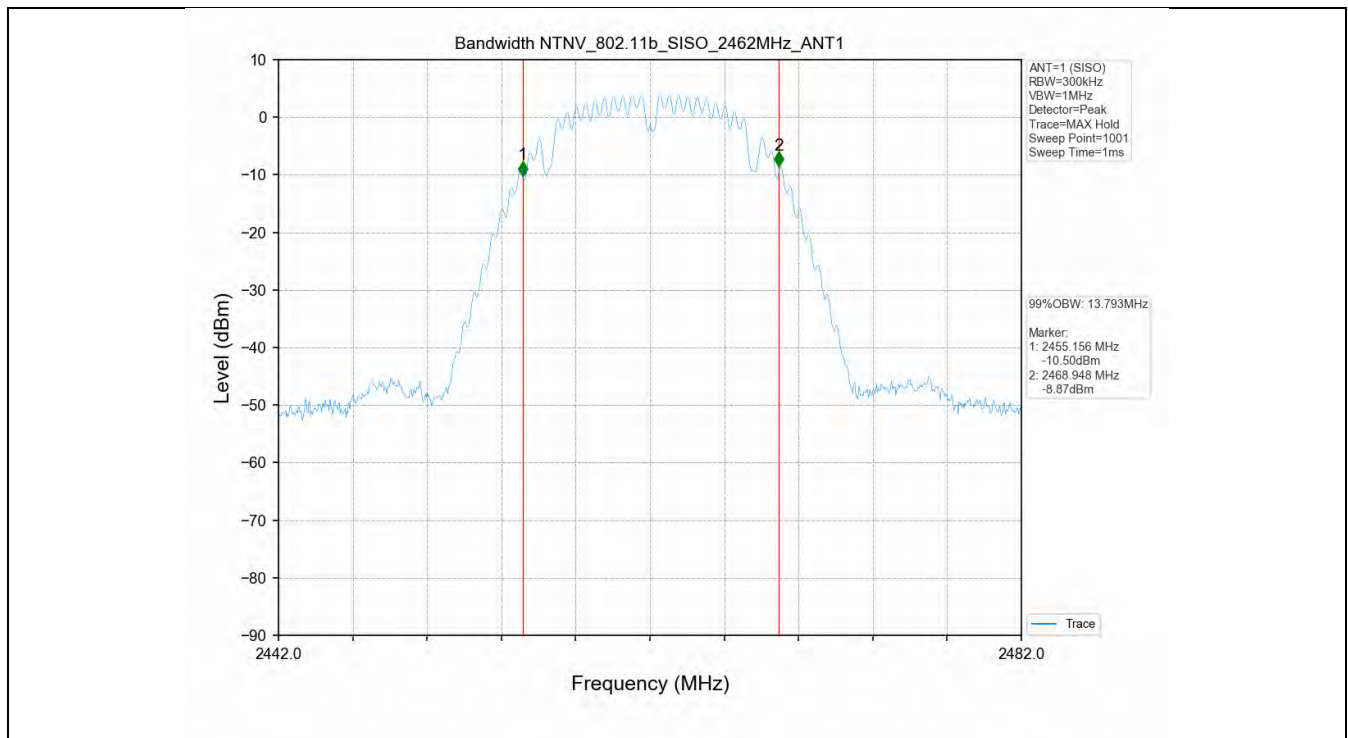
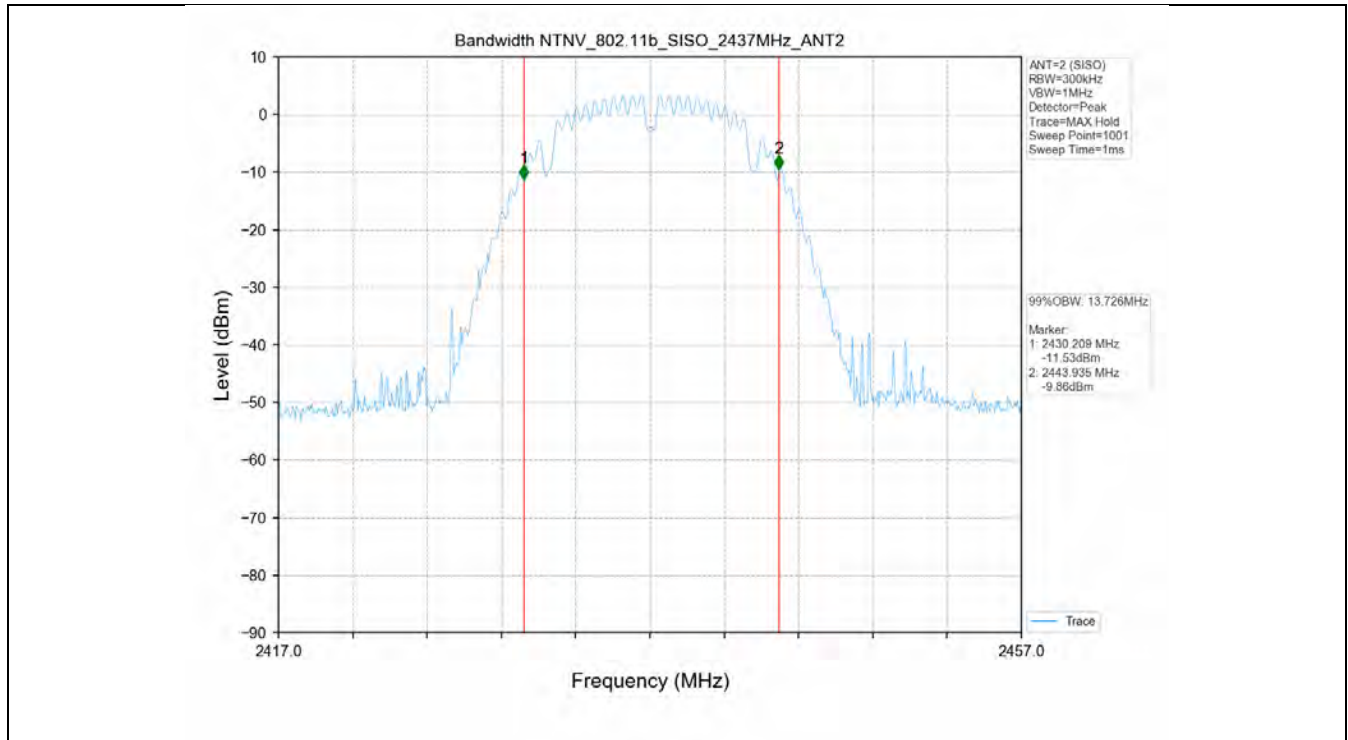


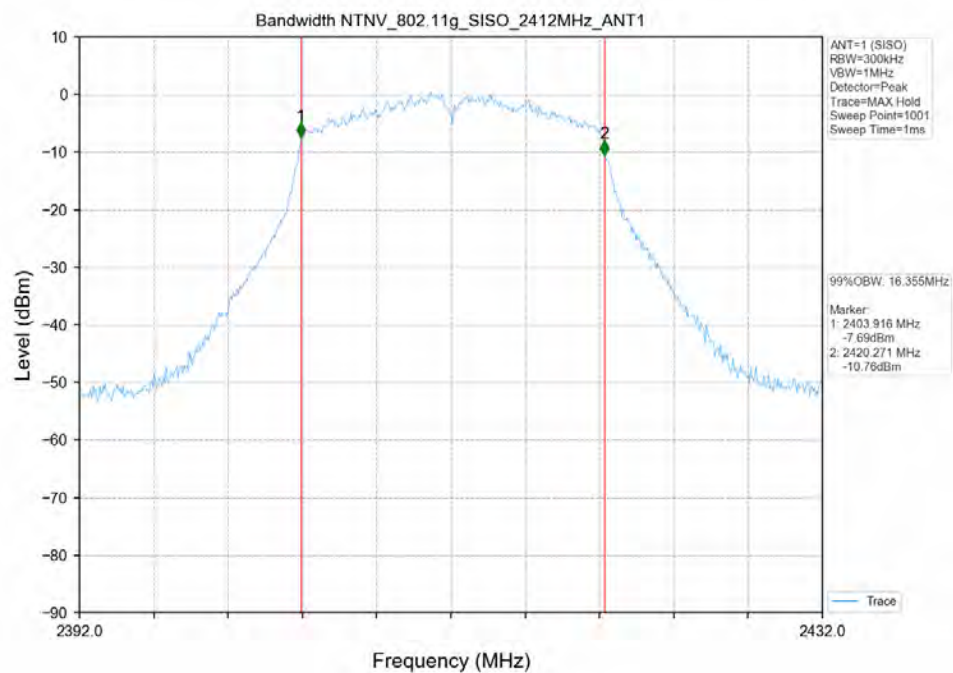
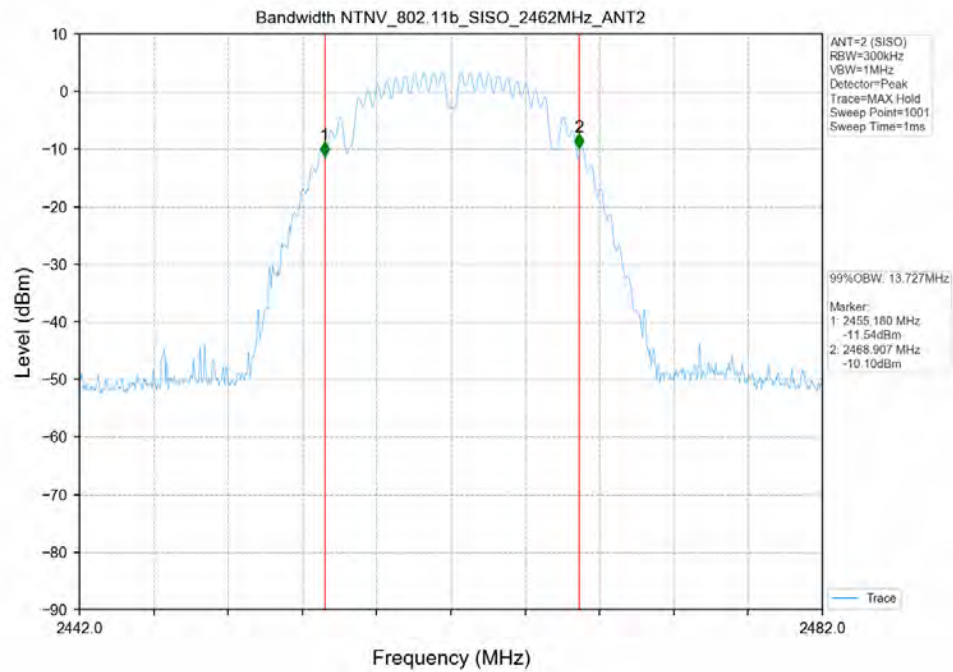
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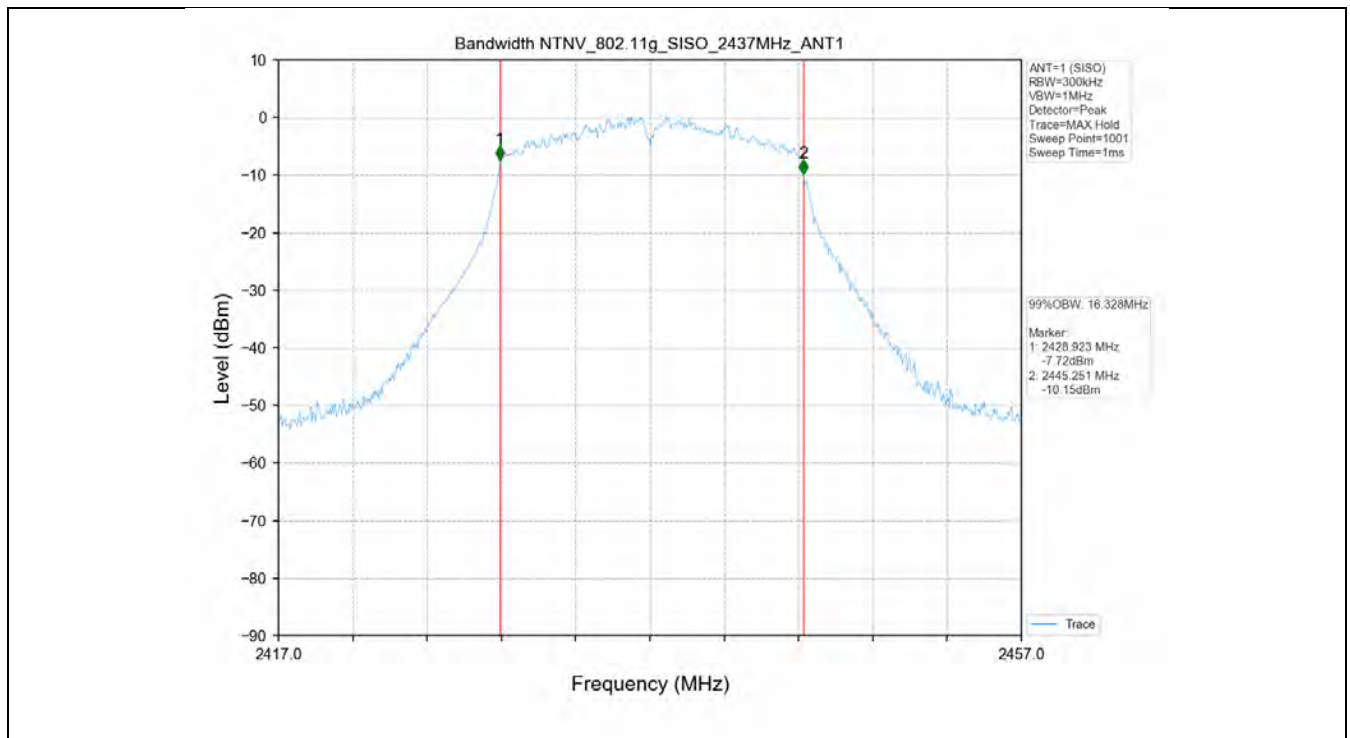
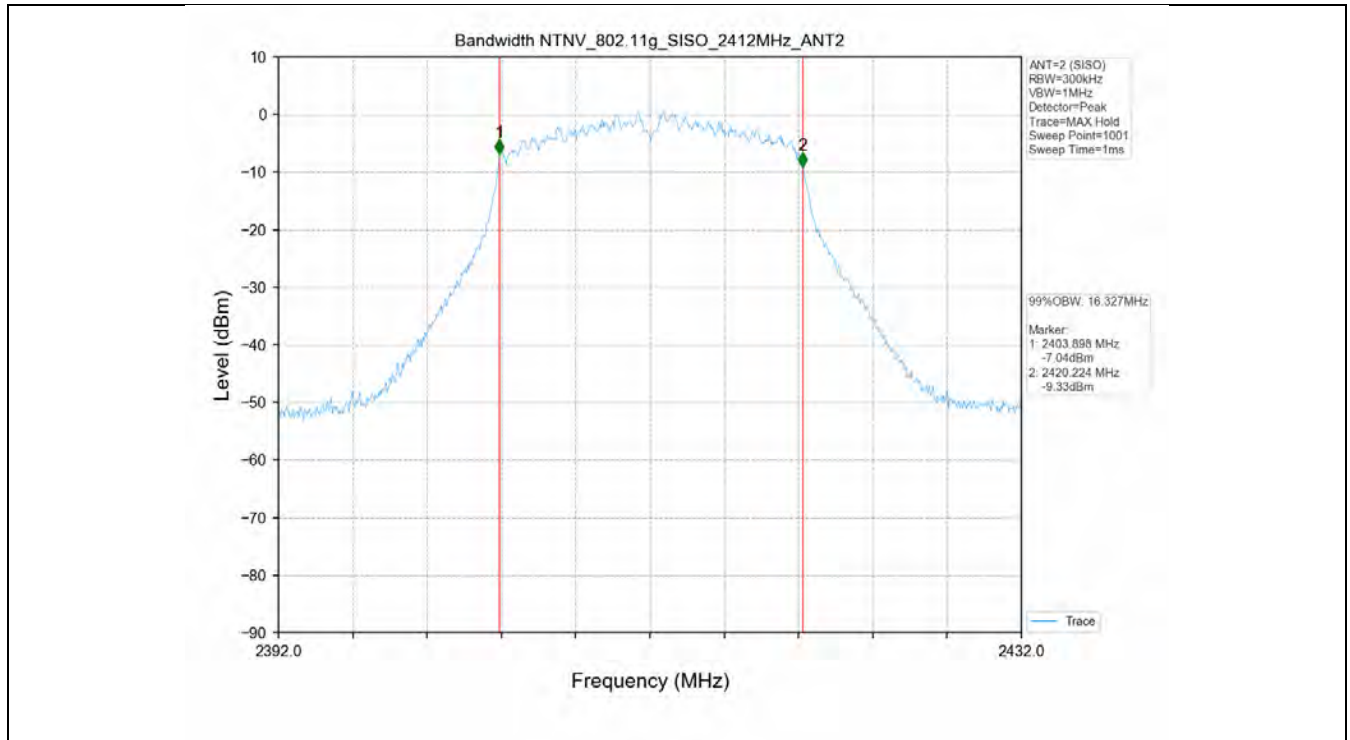
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.





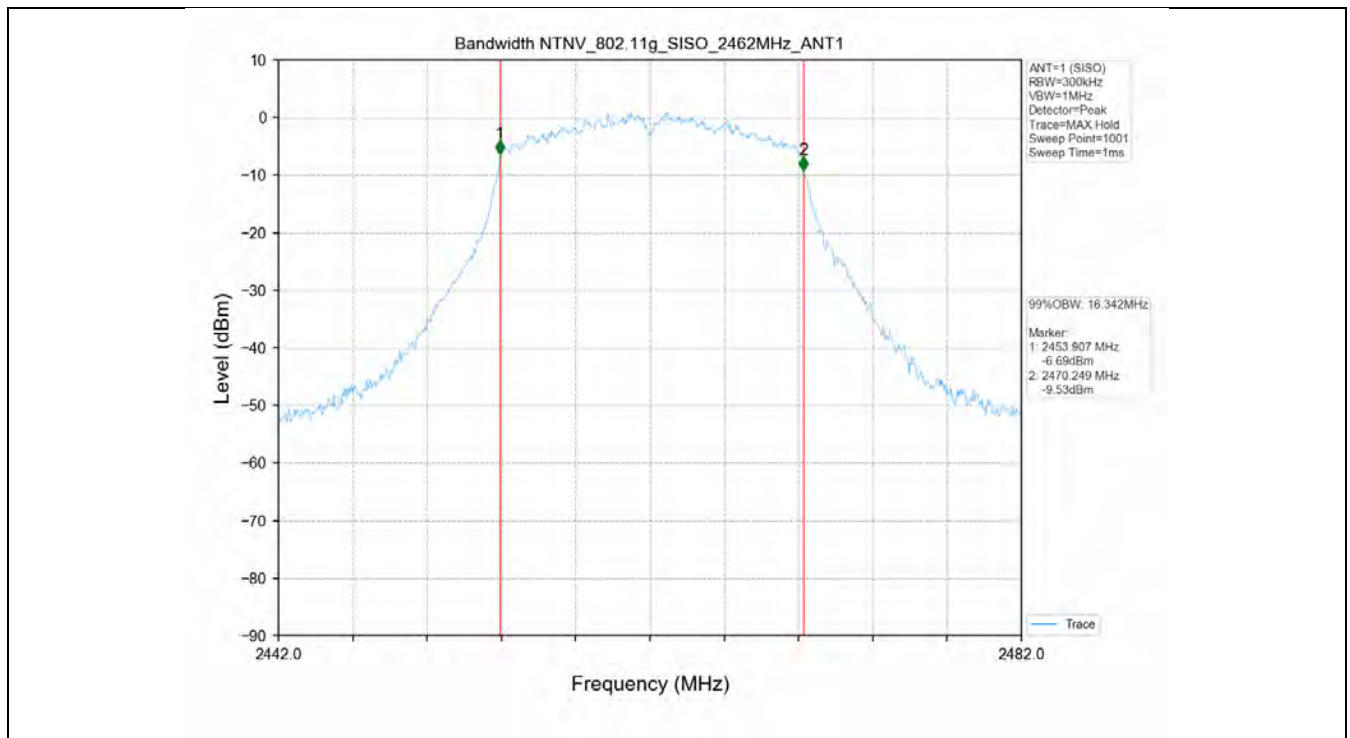
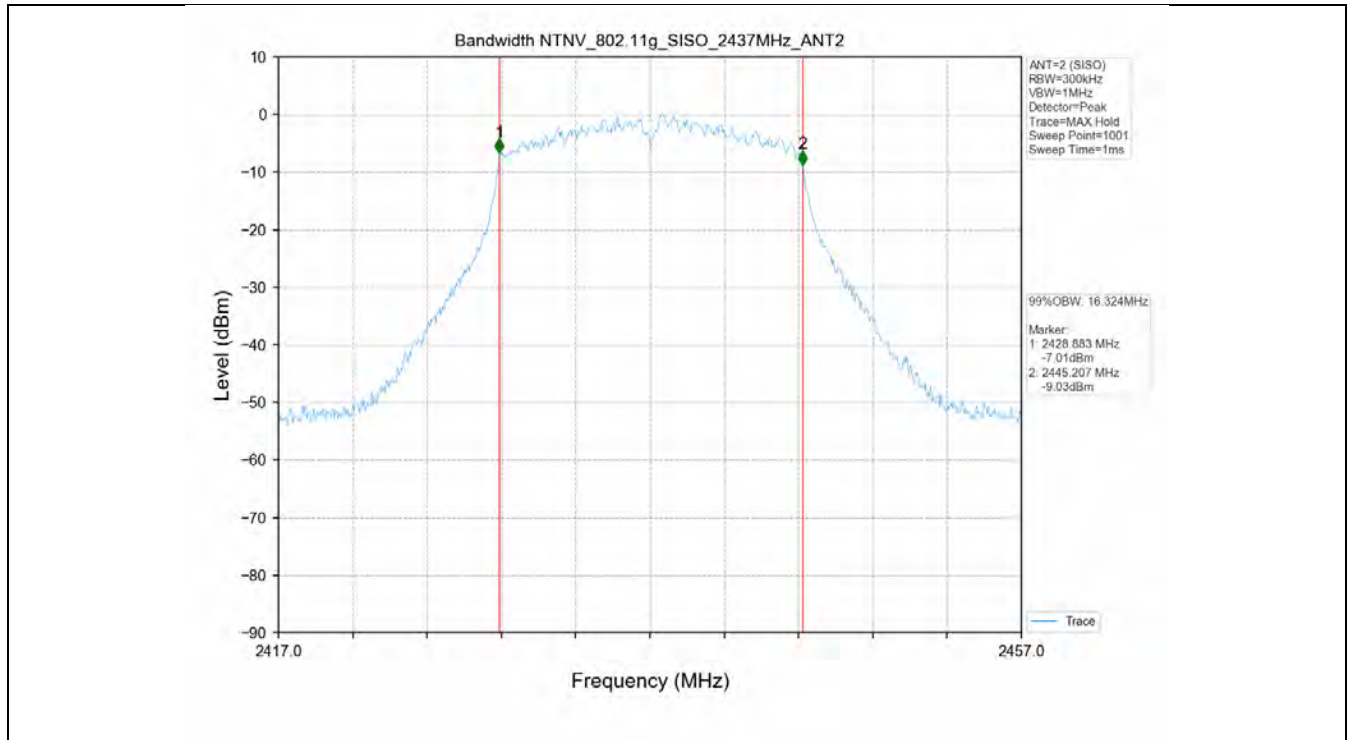


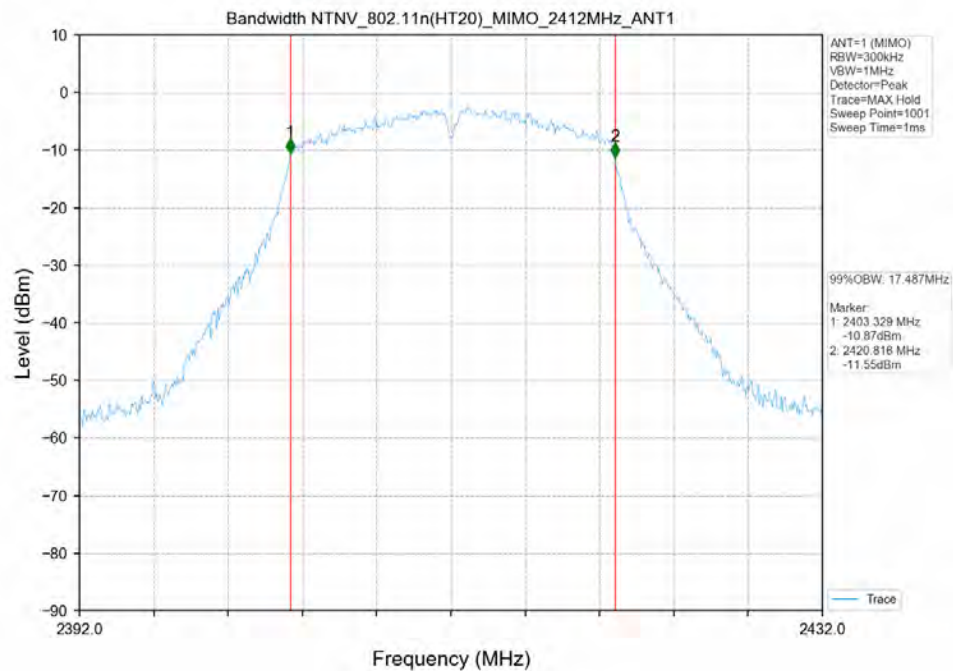
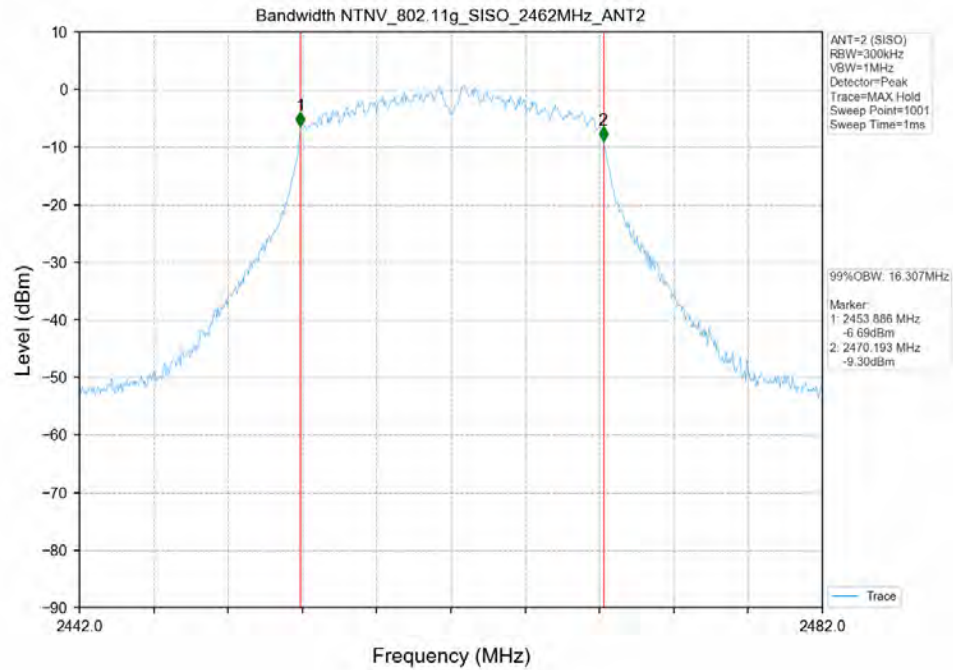
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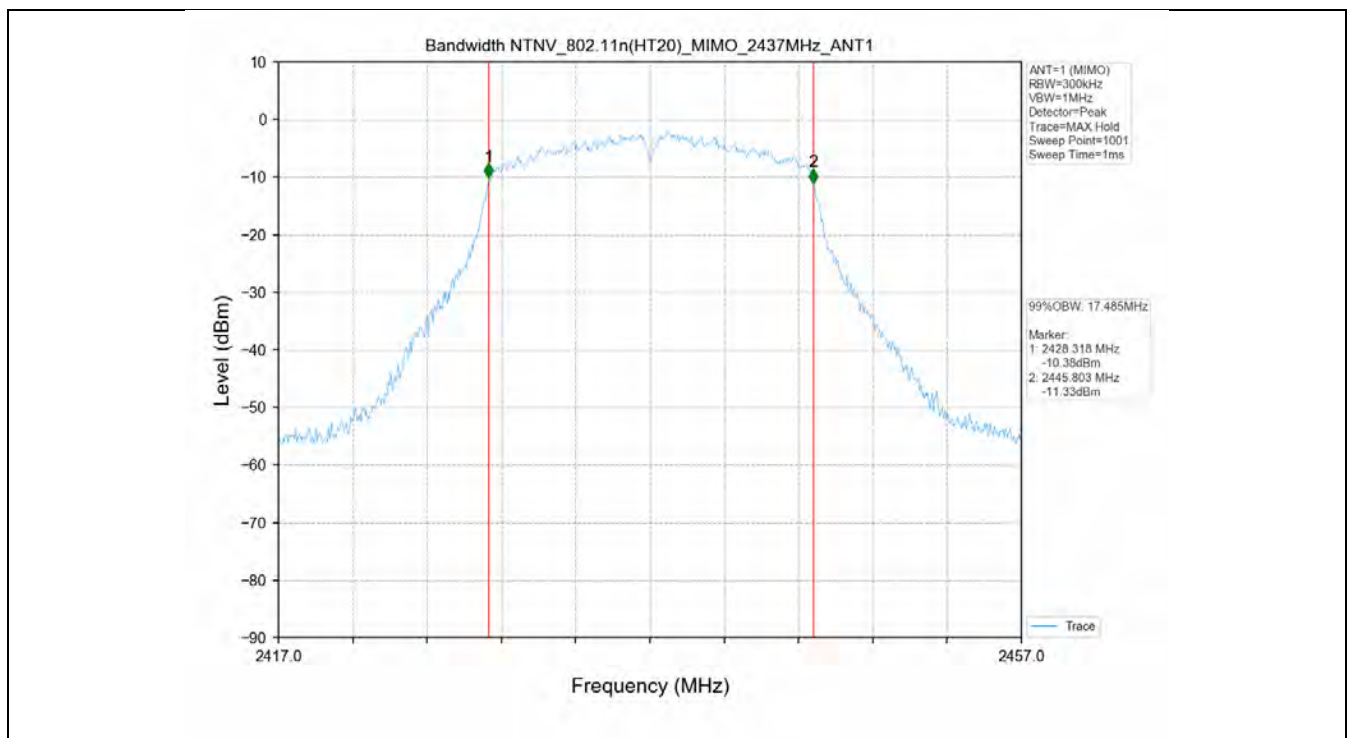
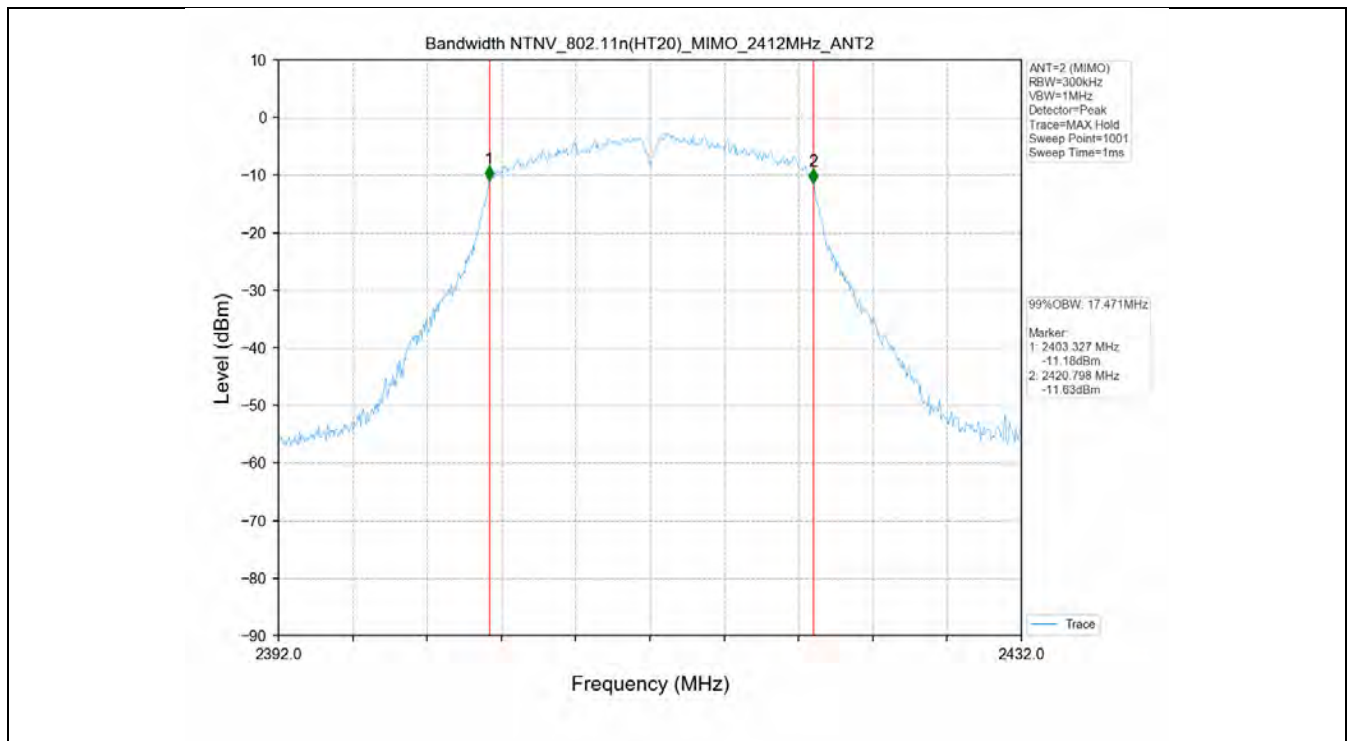


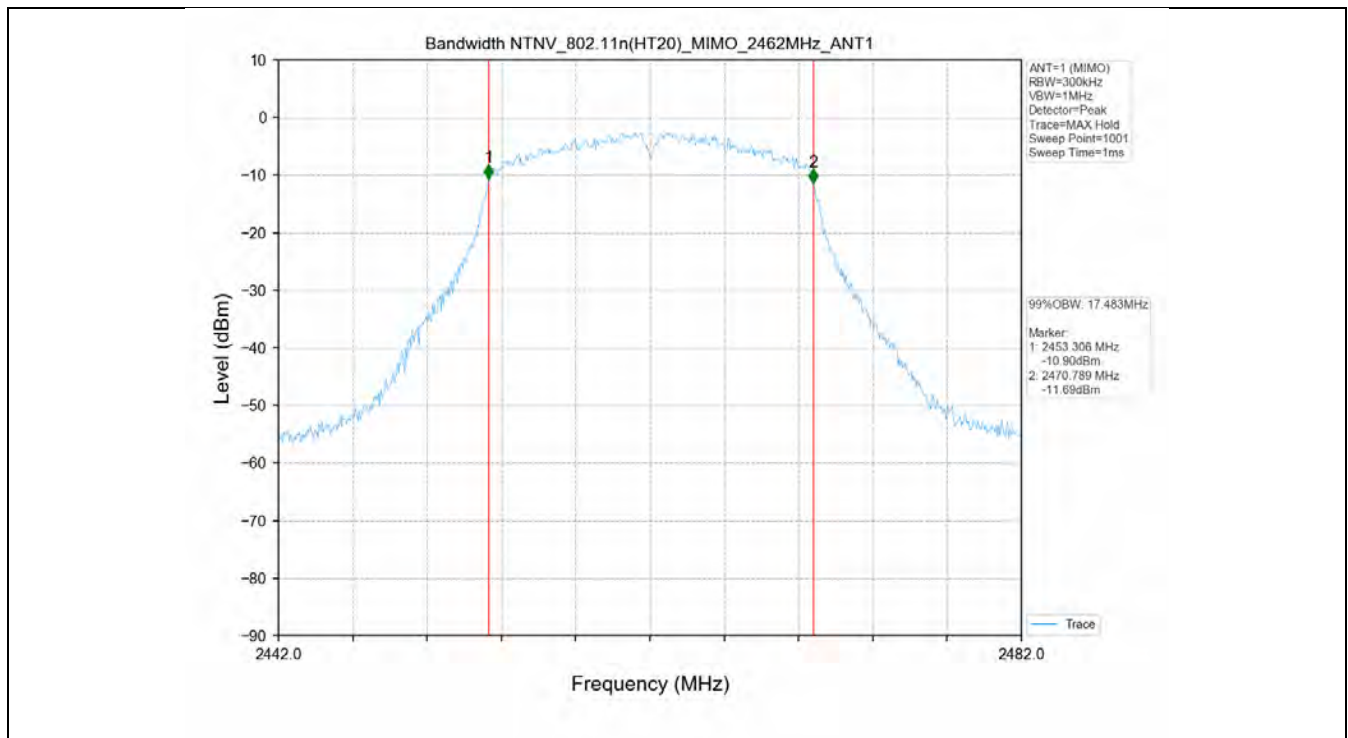
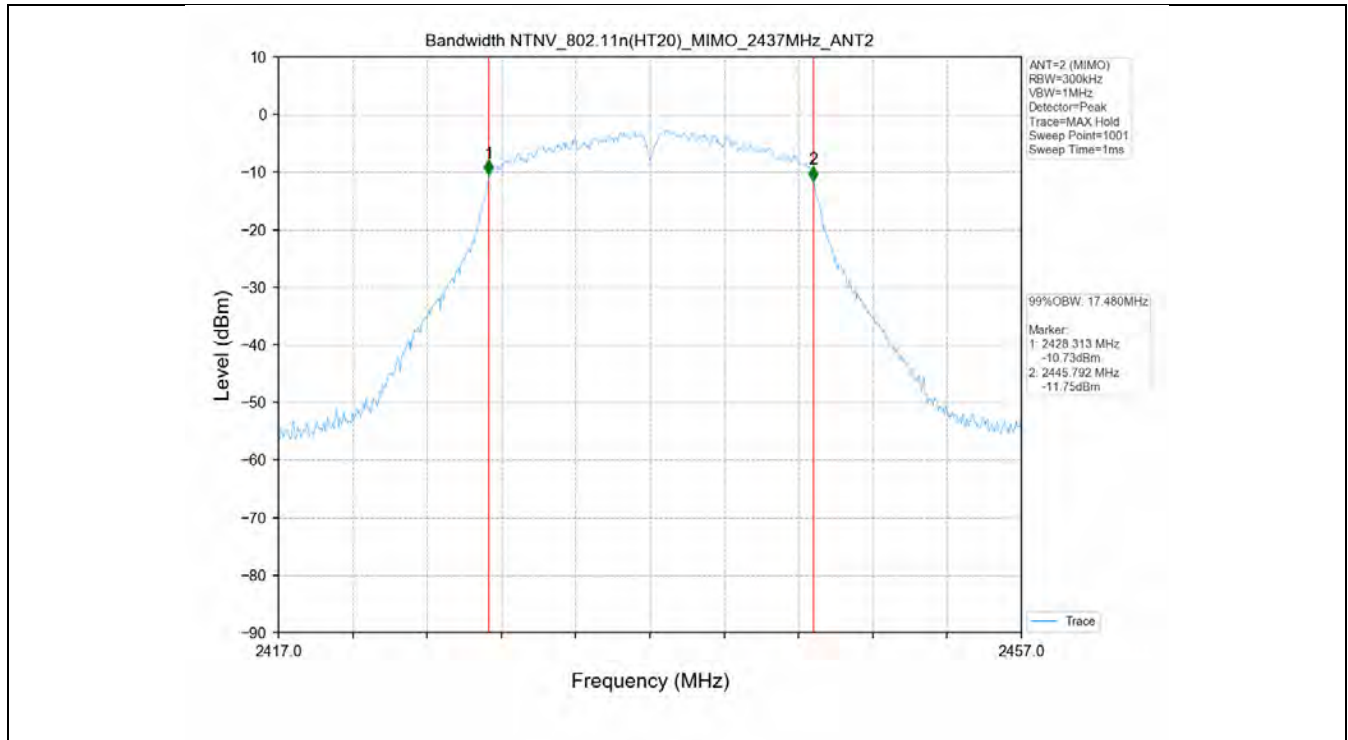


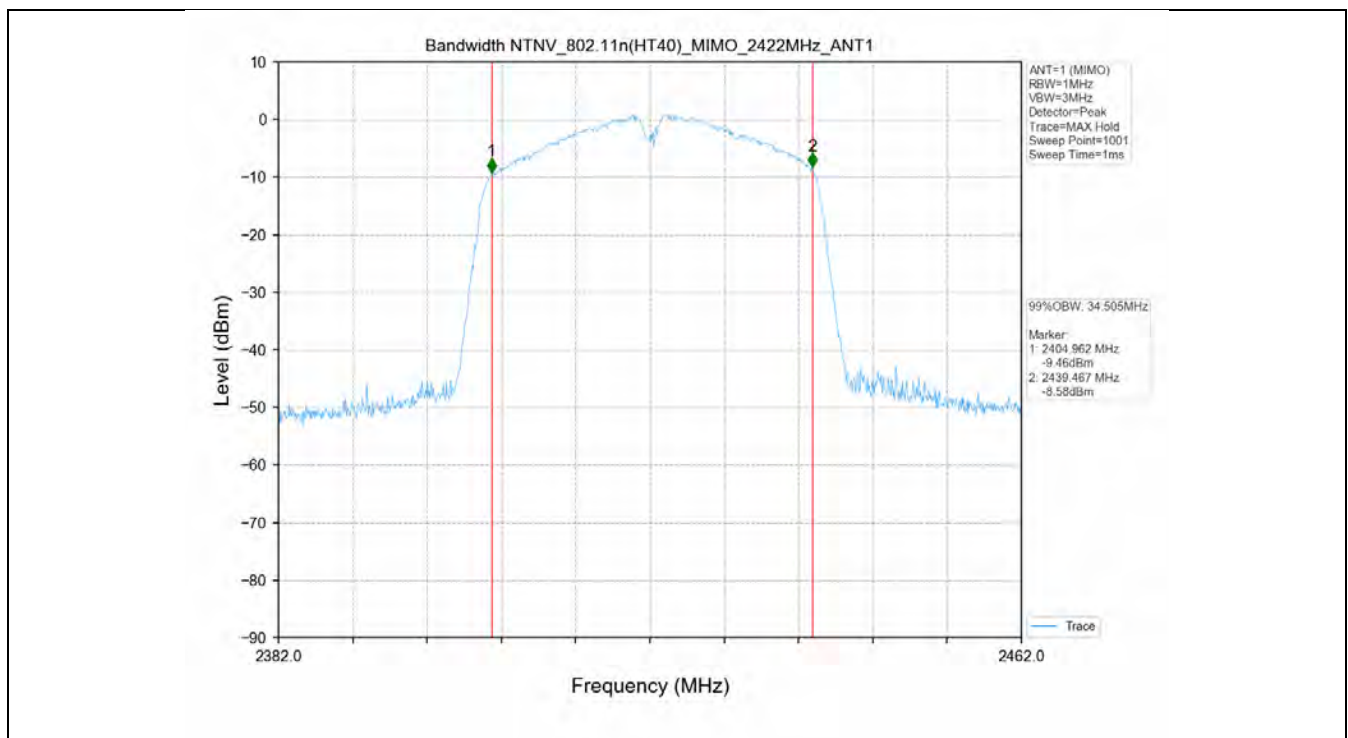
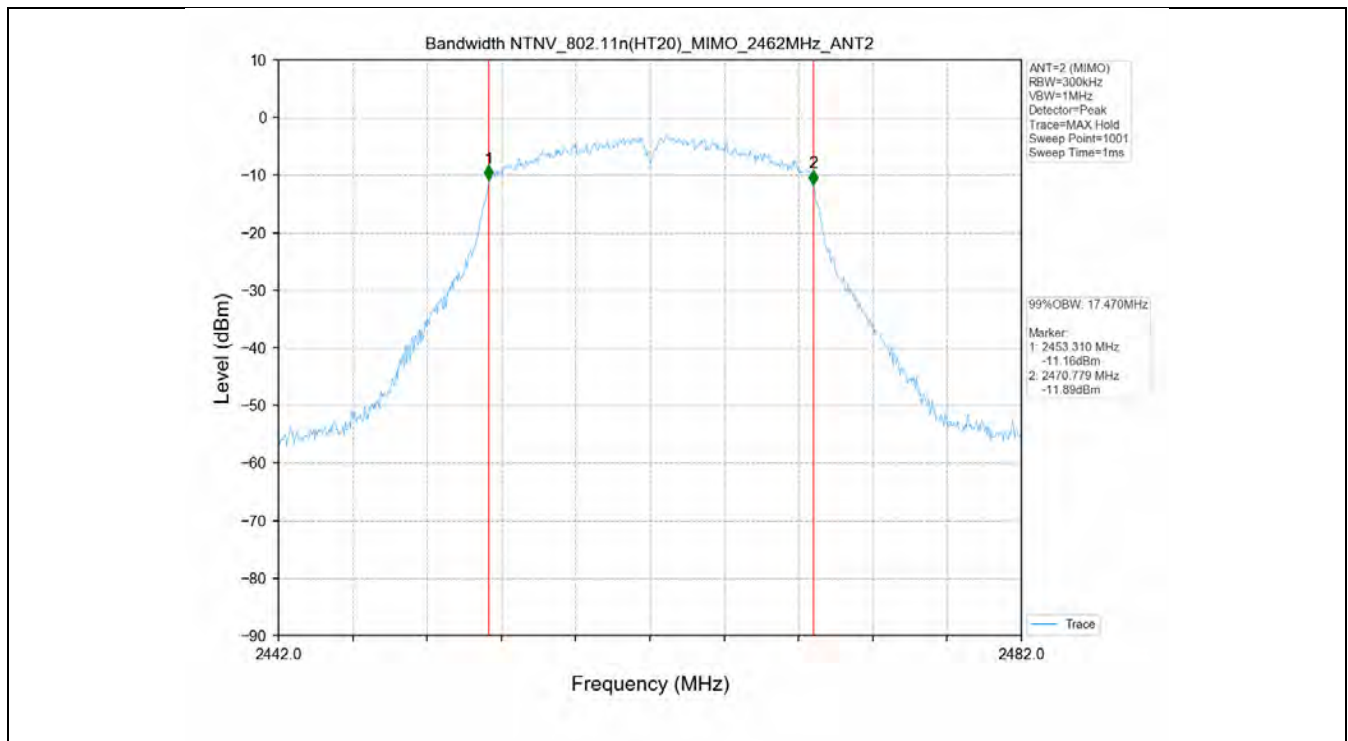
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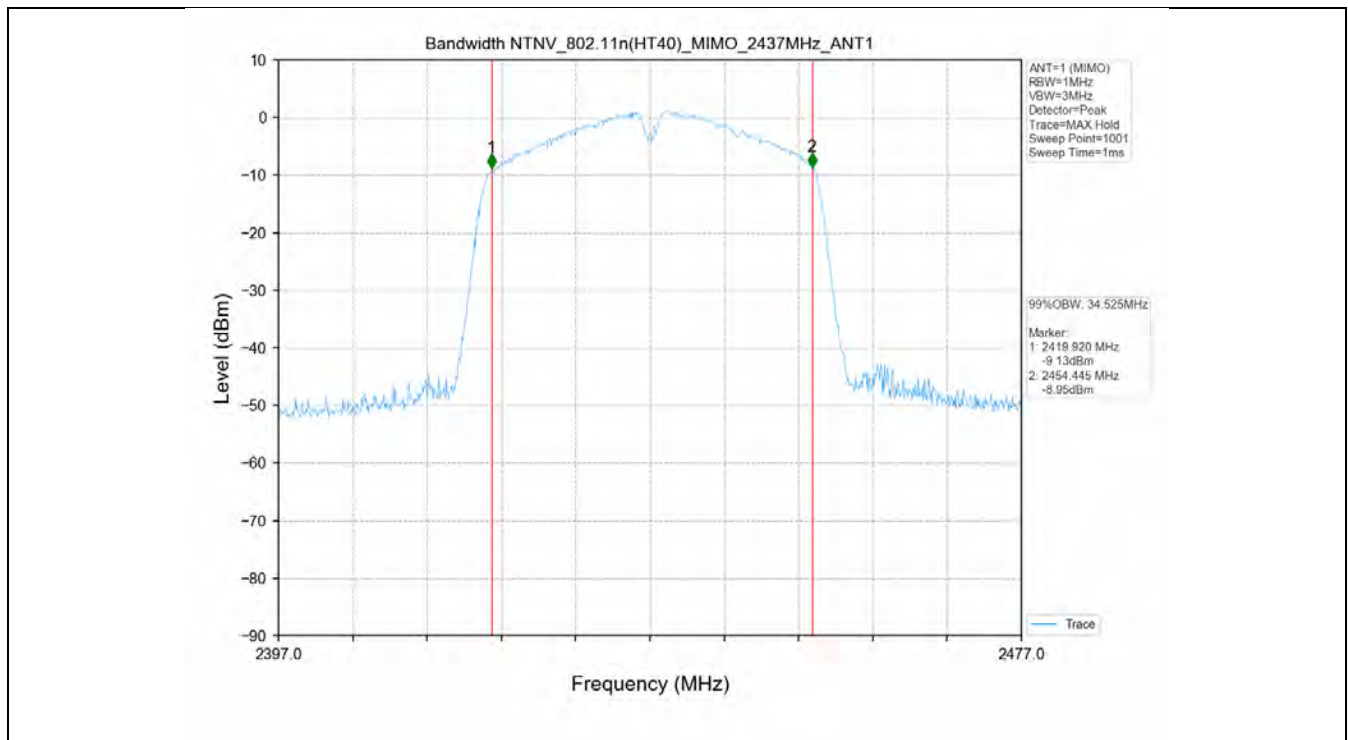
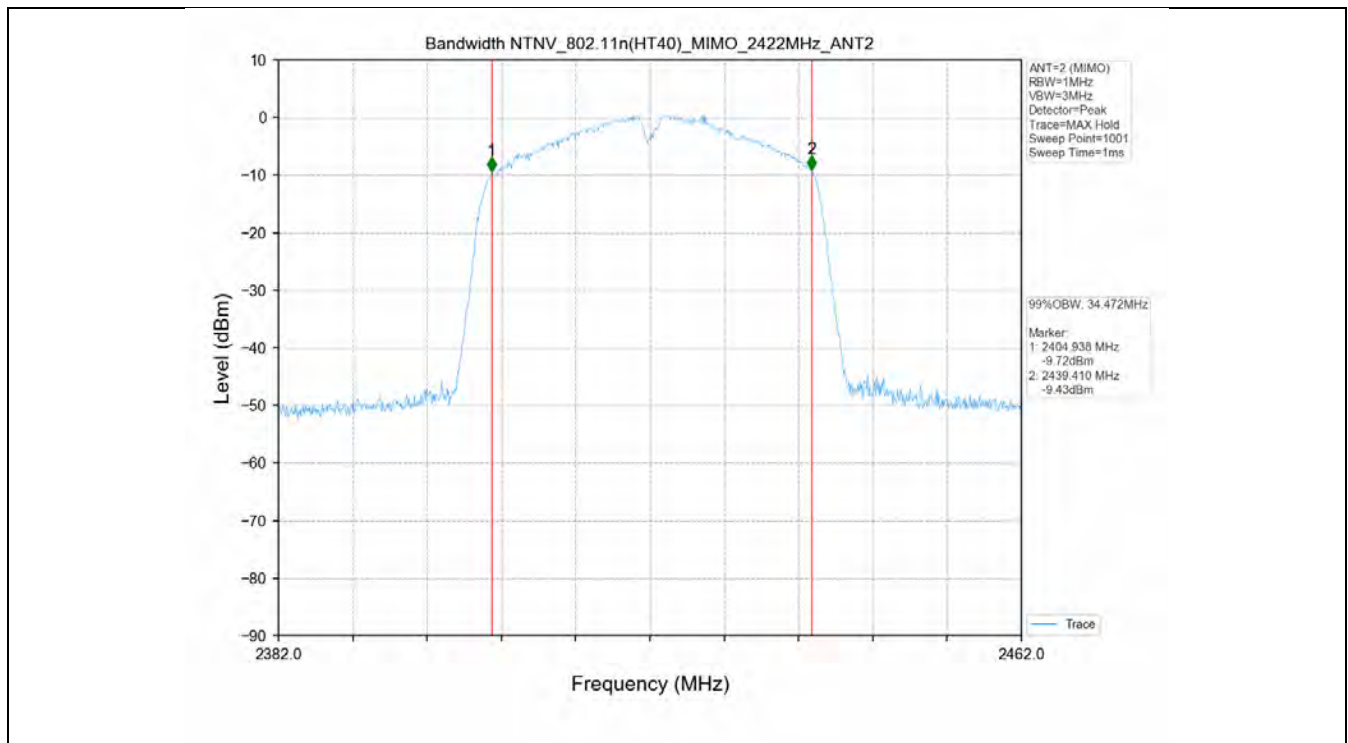


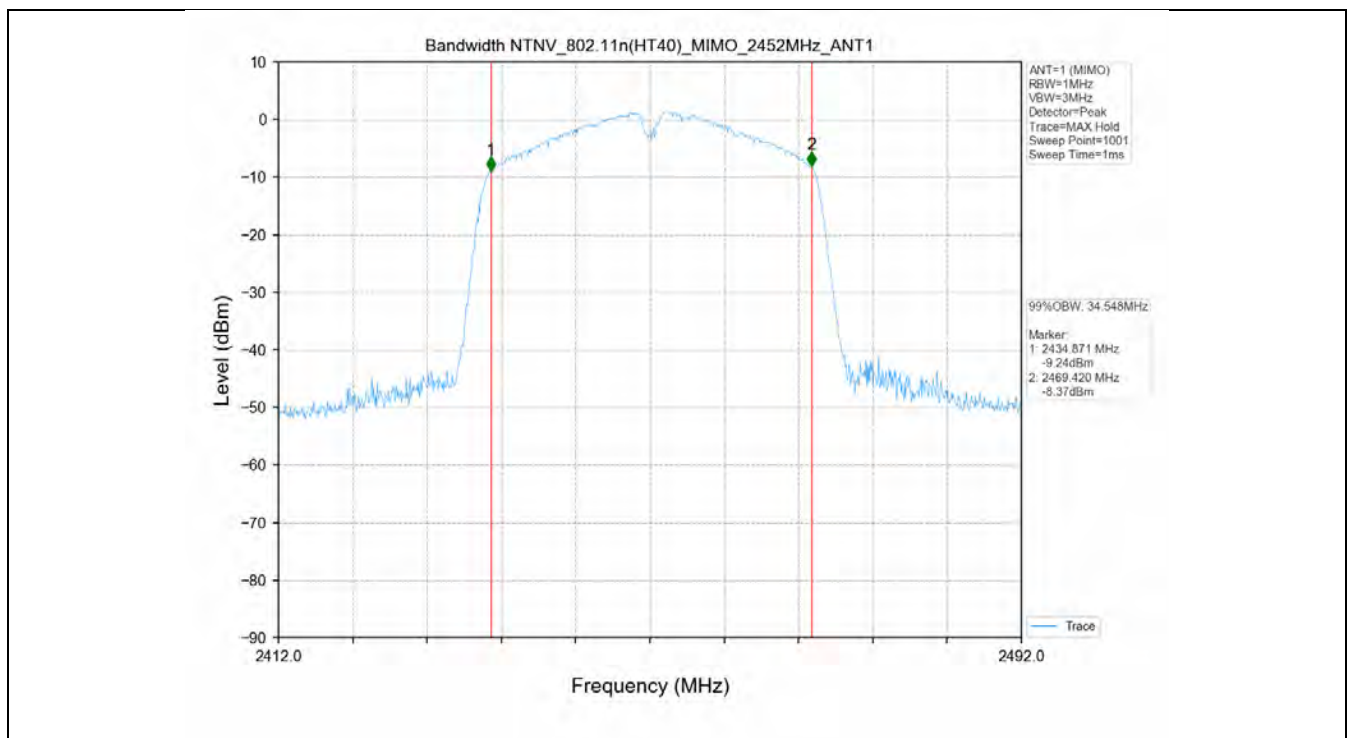
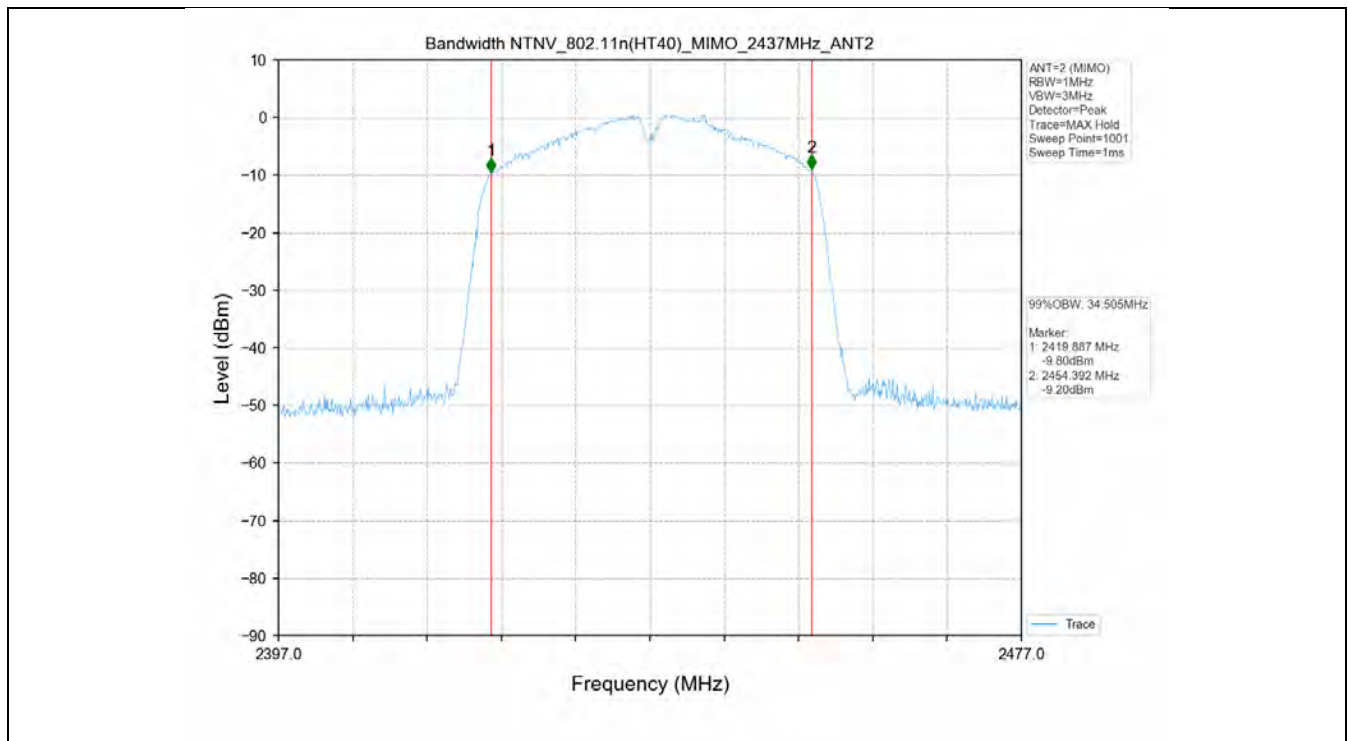


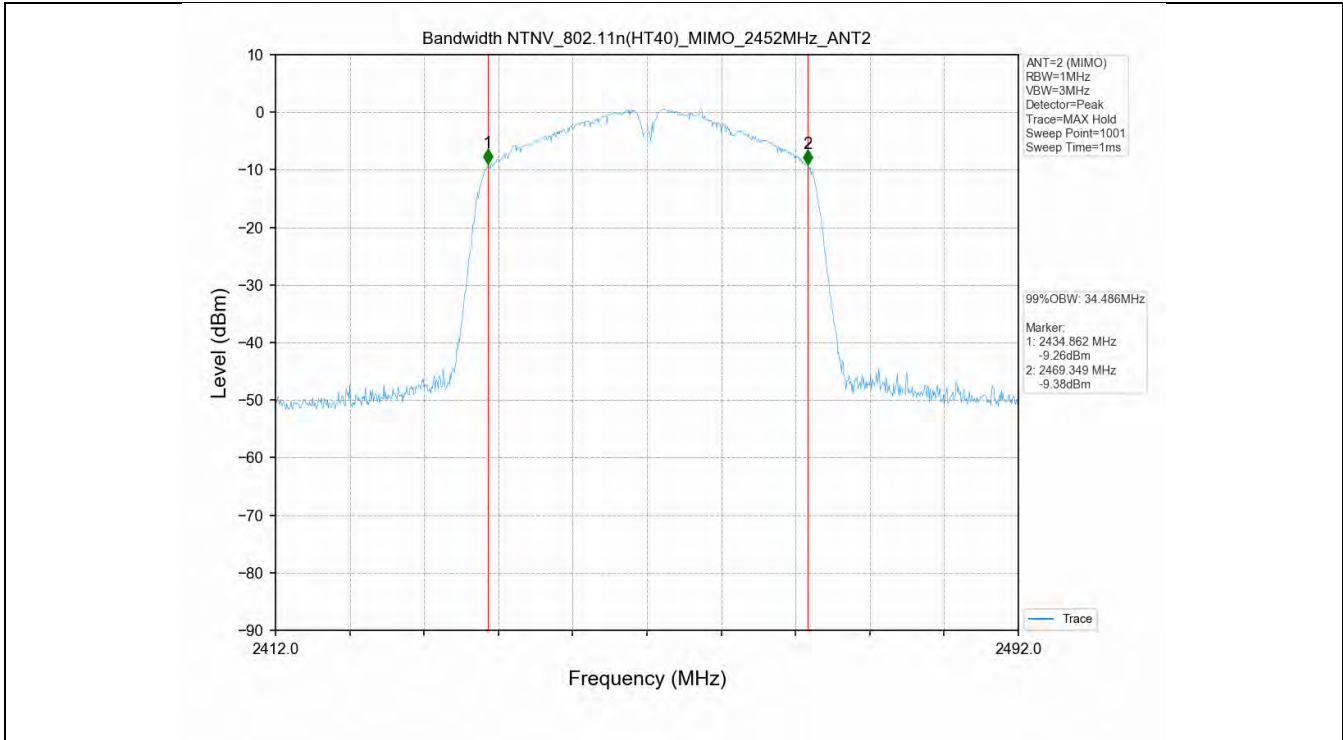




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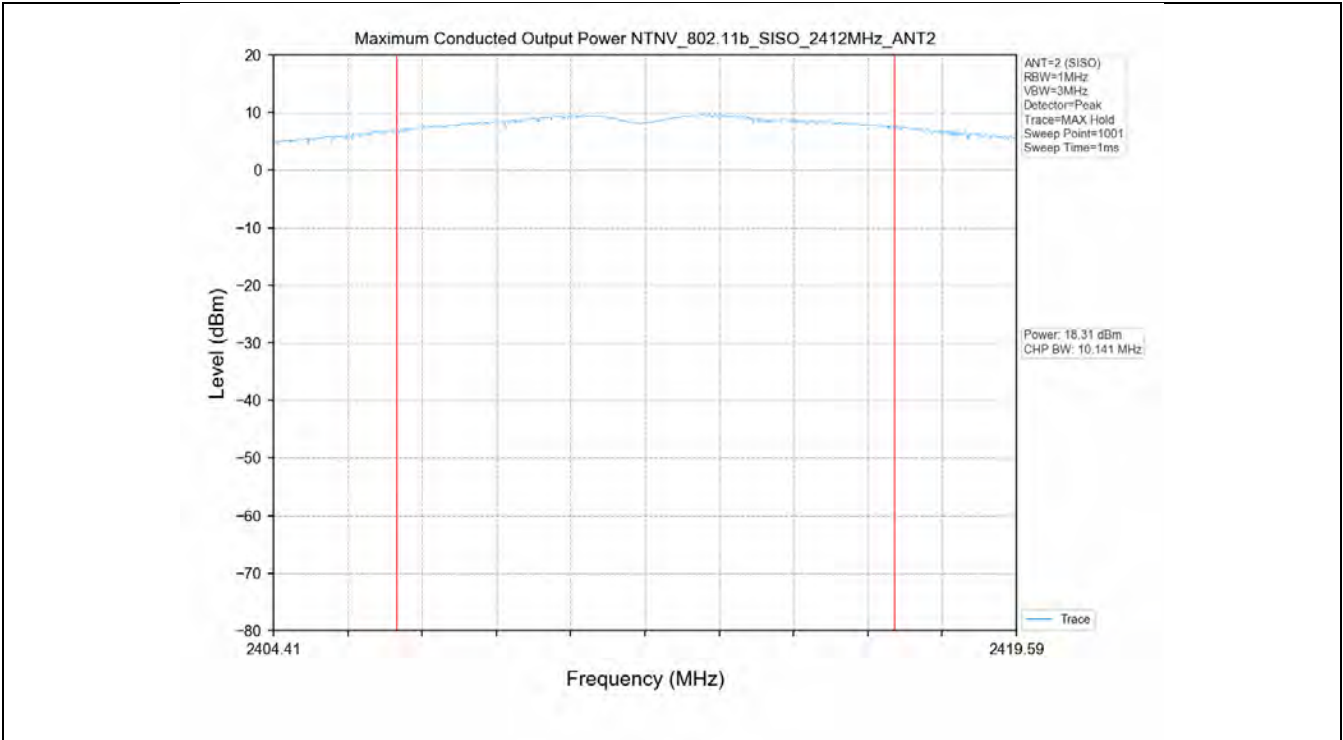
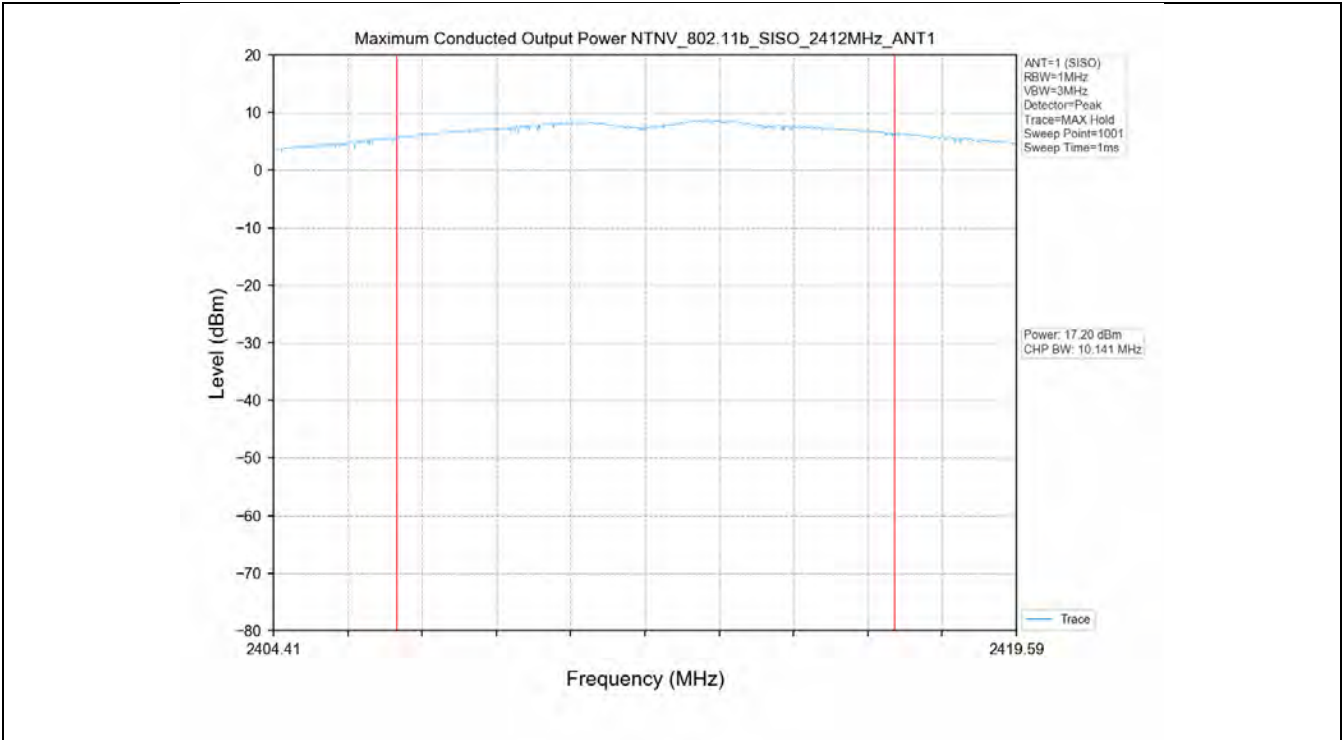


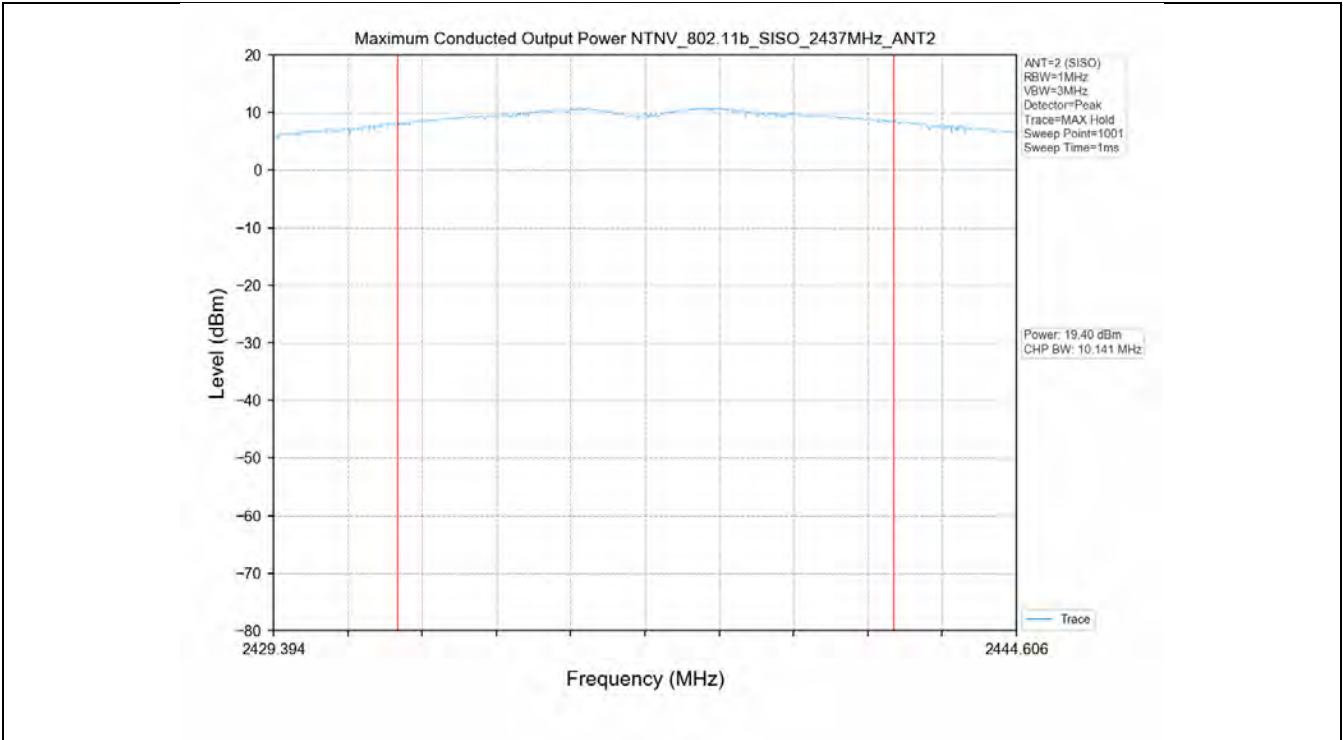
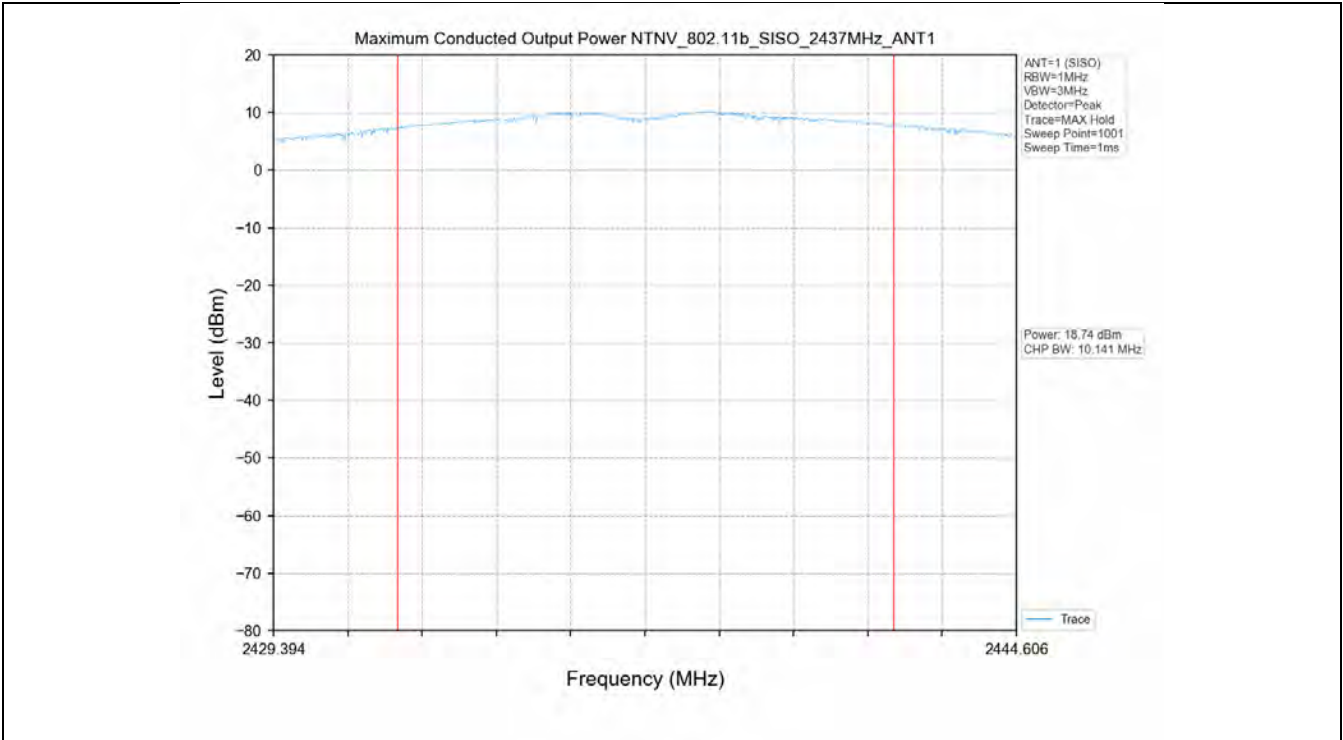
3. Maximum Conducted Output Power

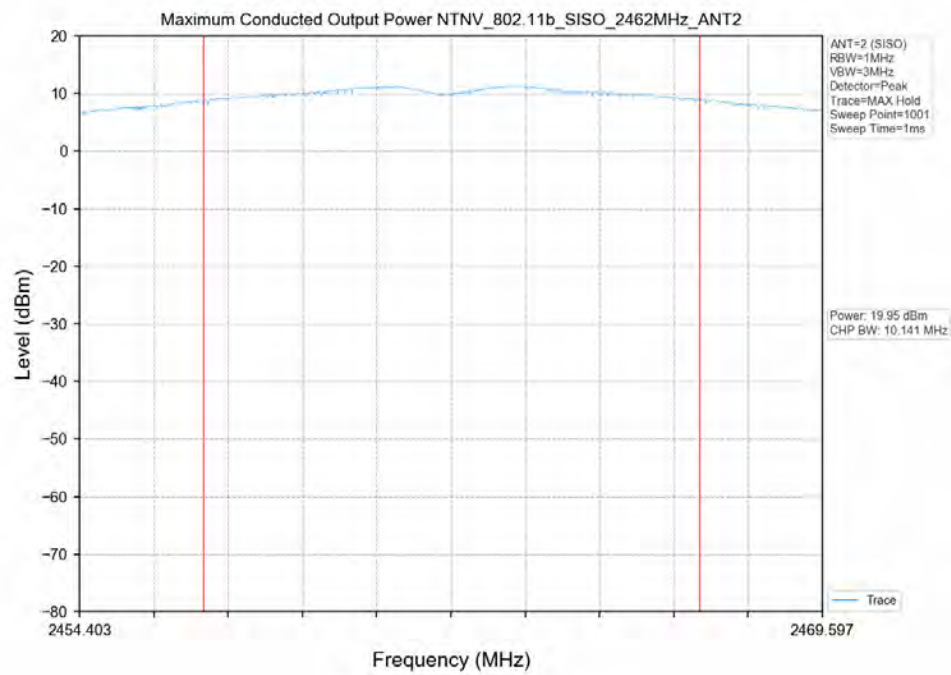
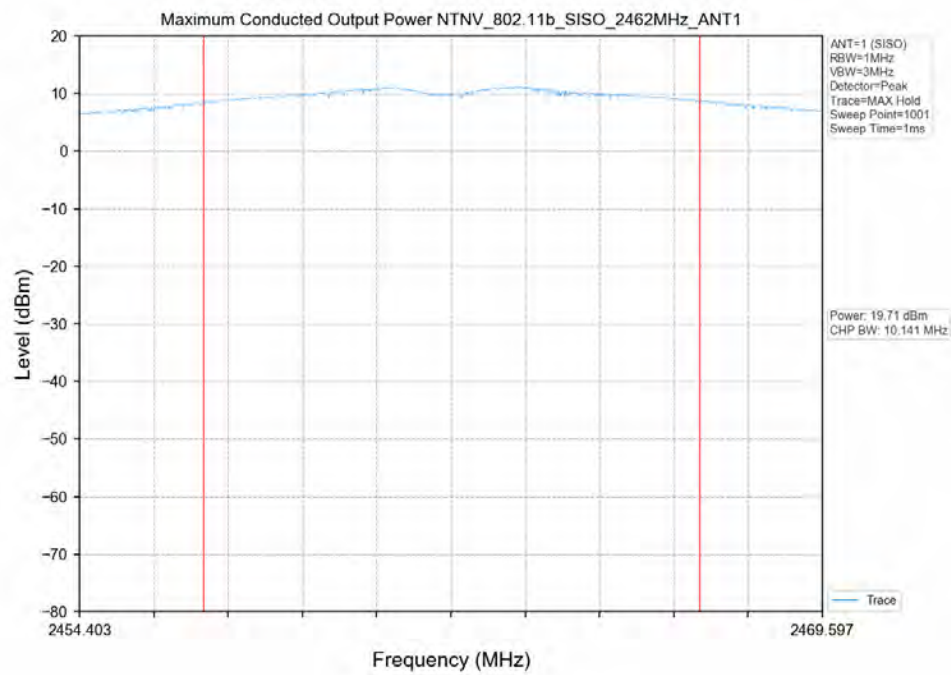
3.1 Test Result

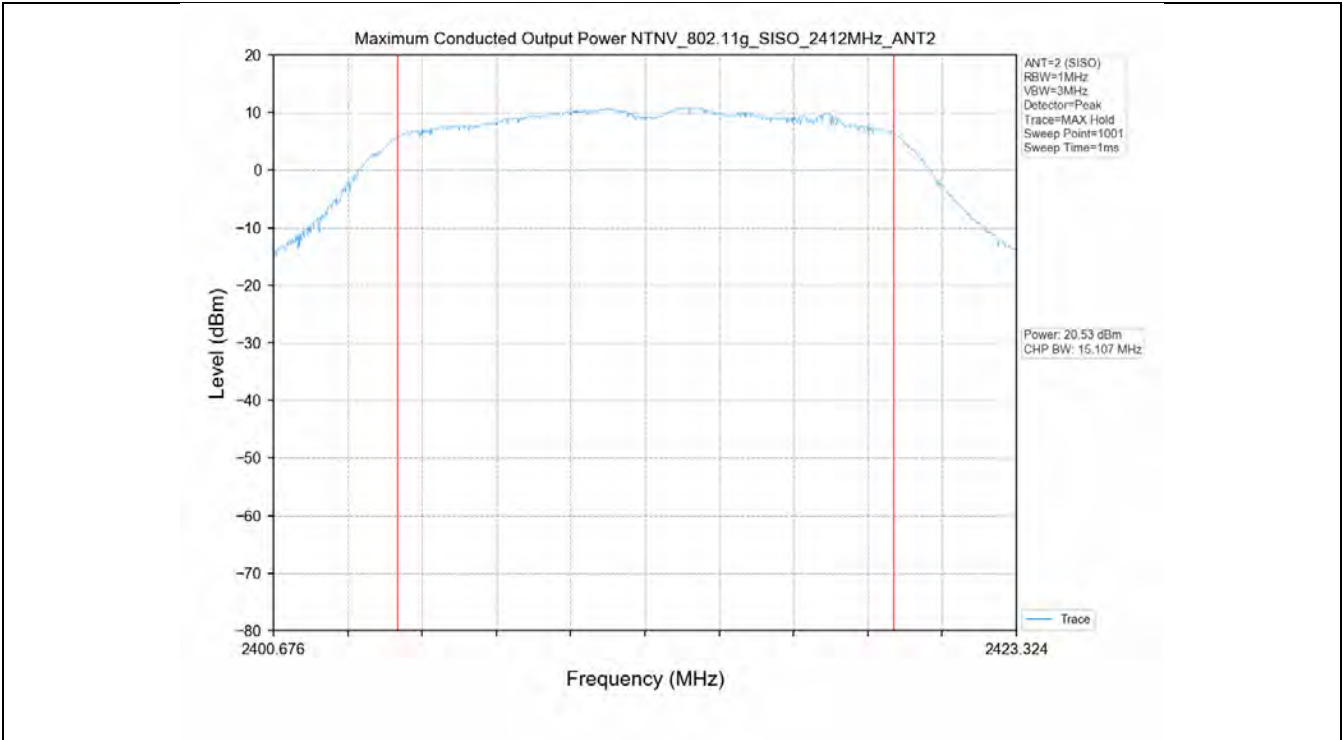
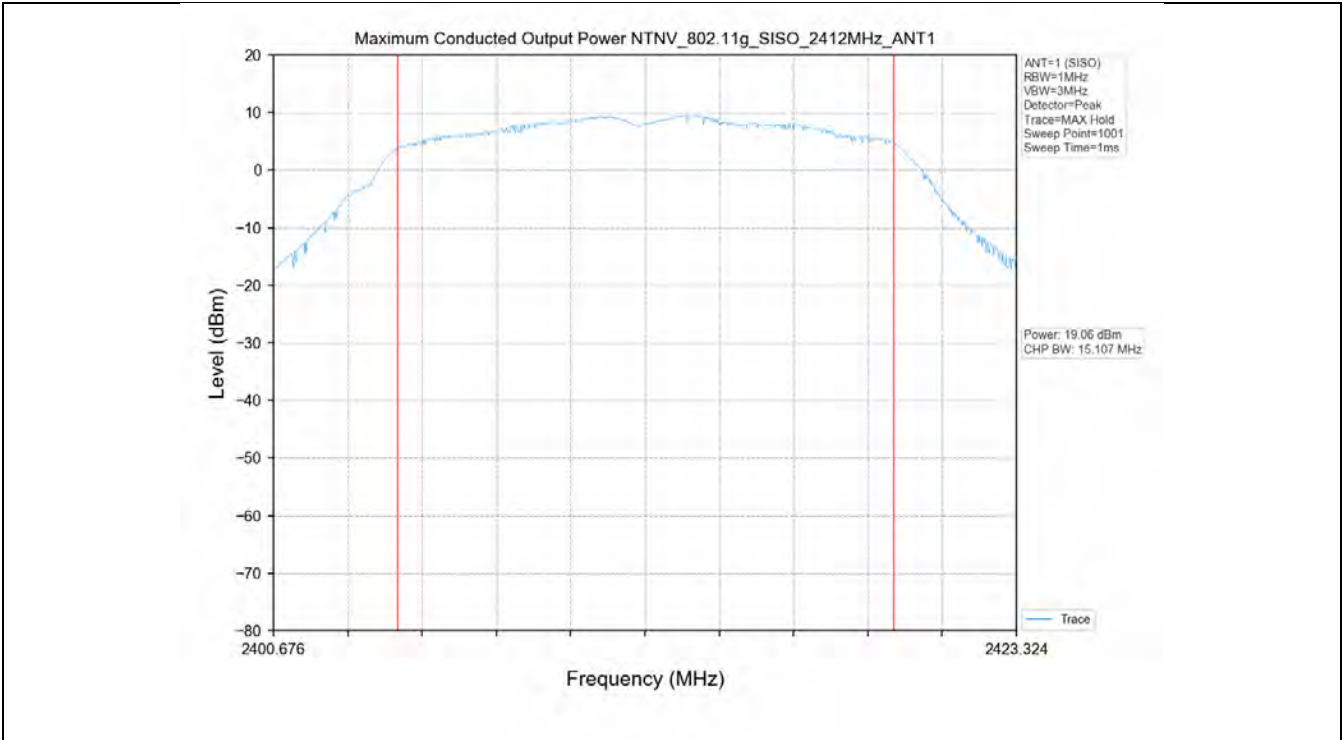
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	17.20	18.31	/	30	PASS
	2437	SISO	18.74	19.40	/	30	PASS
	2462	SISO	19.71	19.95	/	30	PASS
802.11g	2412	SISO	19.06	20.53	/	30	PASS
	2437	SISO	20.37	21.14	/	30	PASS
	2462	SISO	21.24	21.77	/	30	PASS
802.11n(HT20)	2412	MIMO	18.74	19.81	22.32	30	PASS
	2437	MIMO	20.21	20.96	23.61	30	PASS
	2462	MIMO	21.13	21.40	24.28	30	PASS
802.11n(HT40)	2422	MIMO	20.53	21.48	24.04	30	PASS
	2437	MIMO	21.21	21.94	24.60	30	PASS
	2452	MIMO	21.83	22.29	25.08	30	PASS

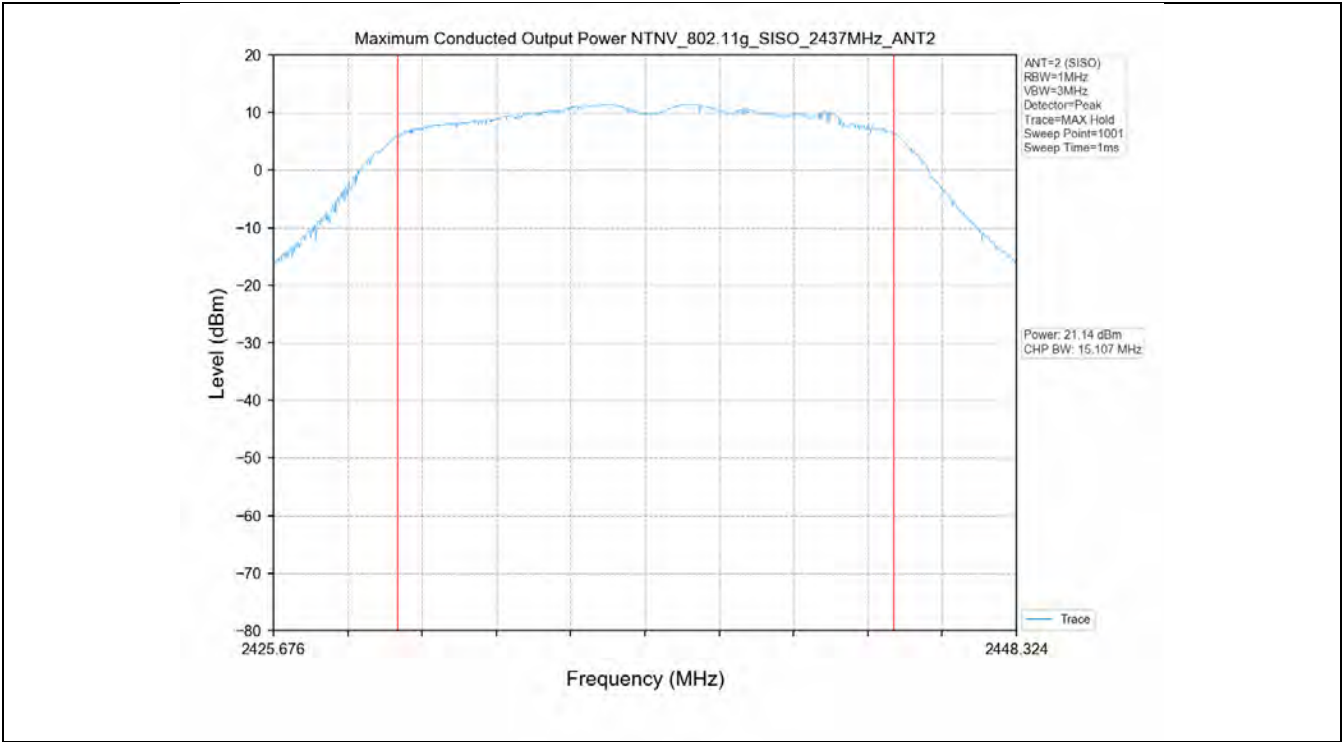
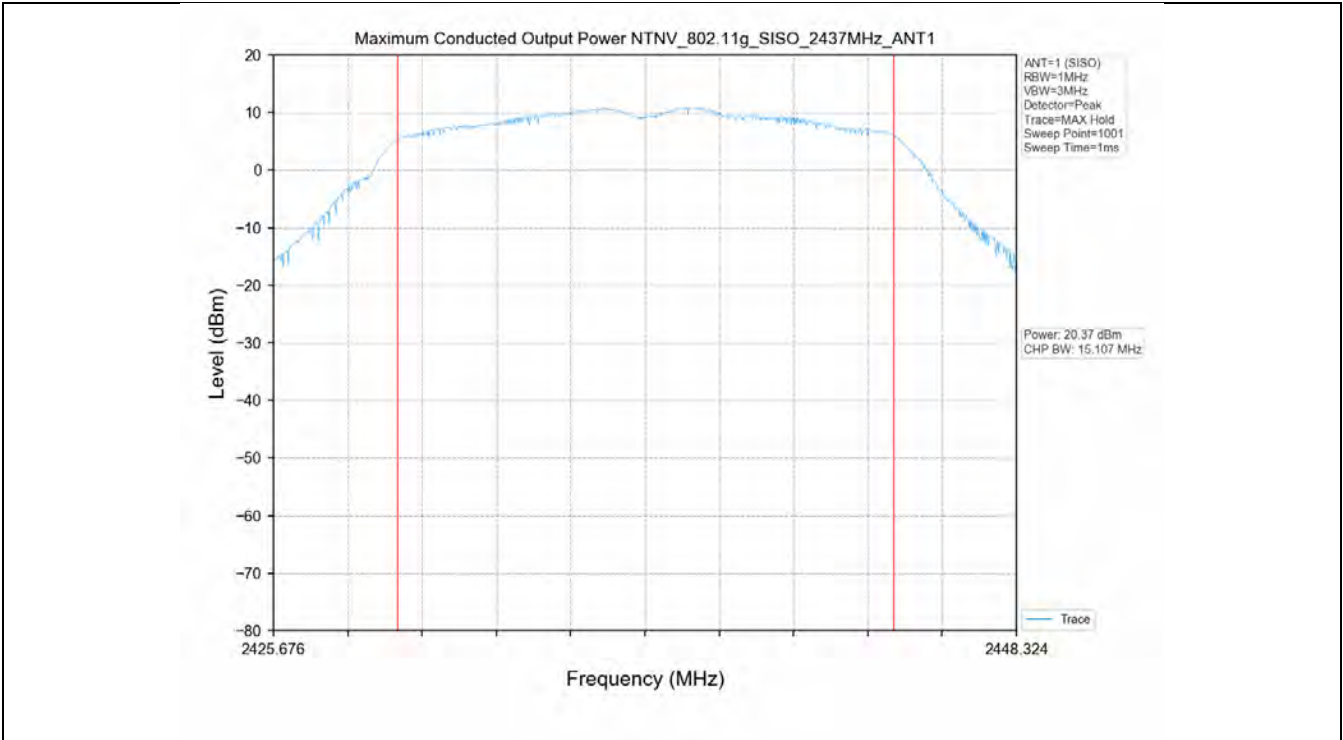
3.2 Test Graph

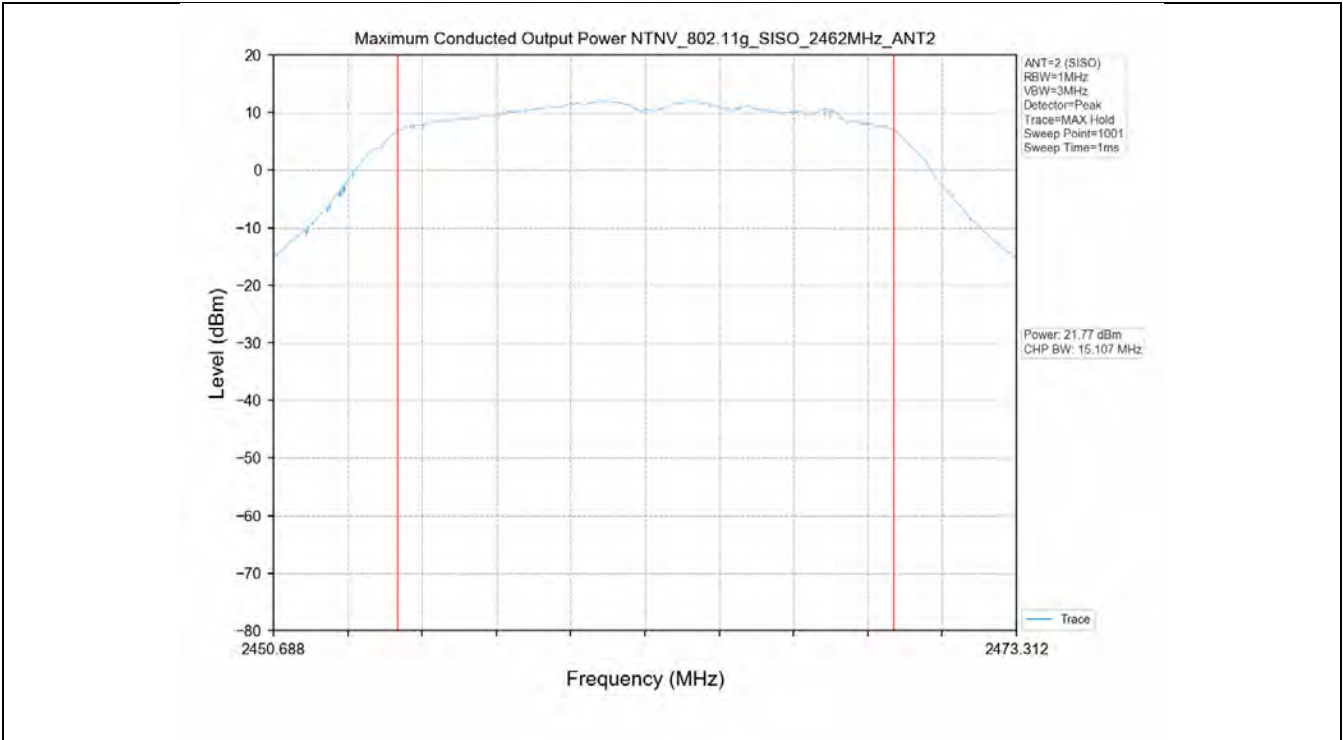
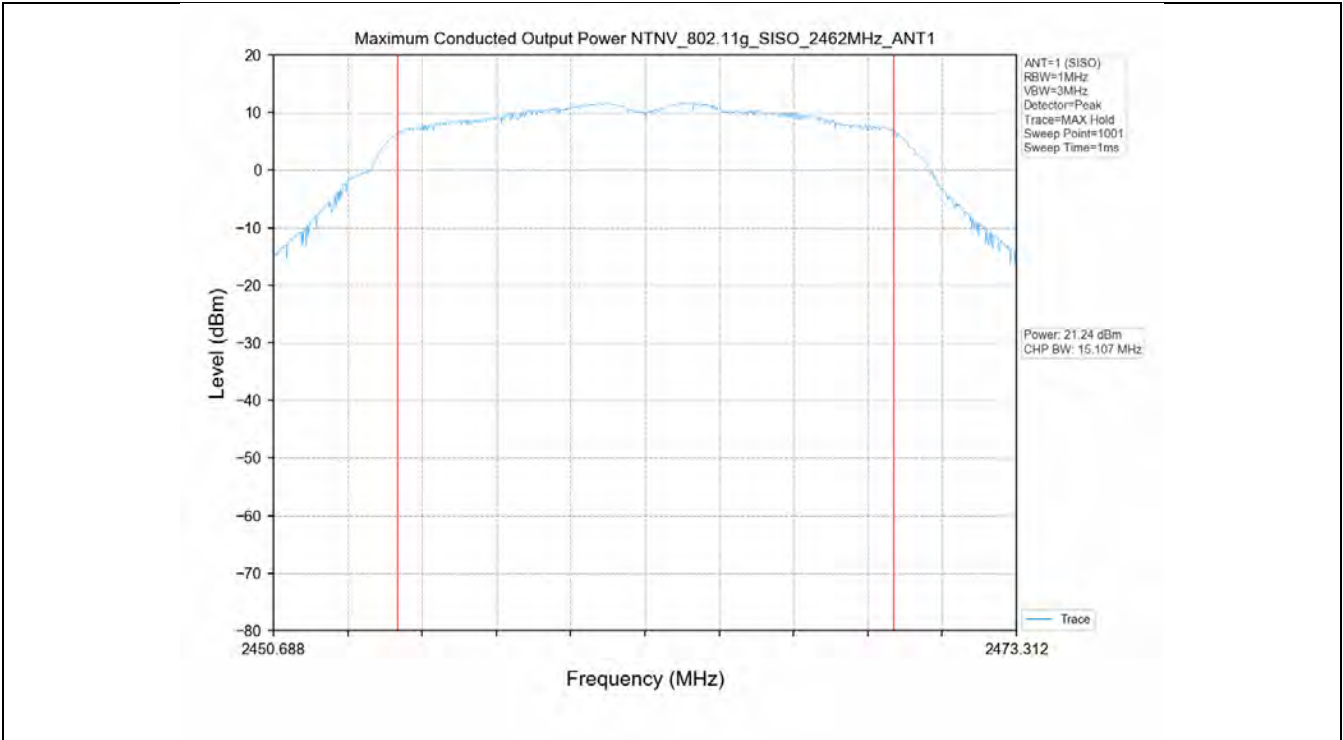


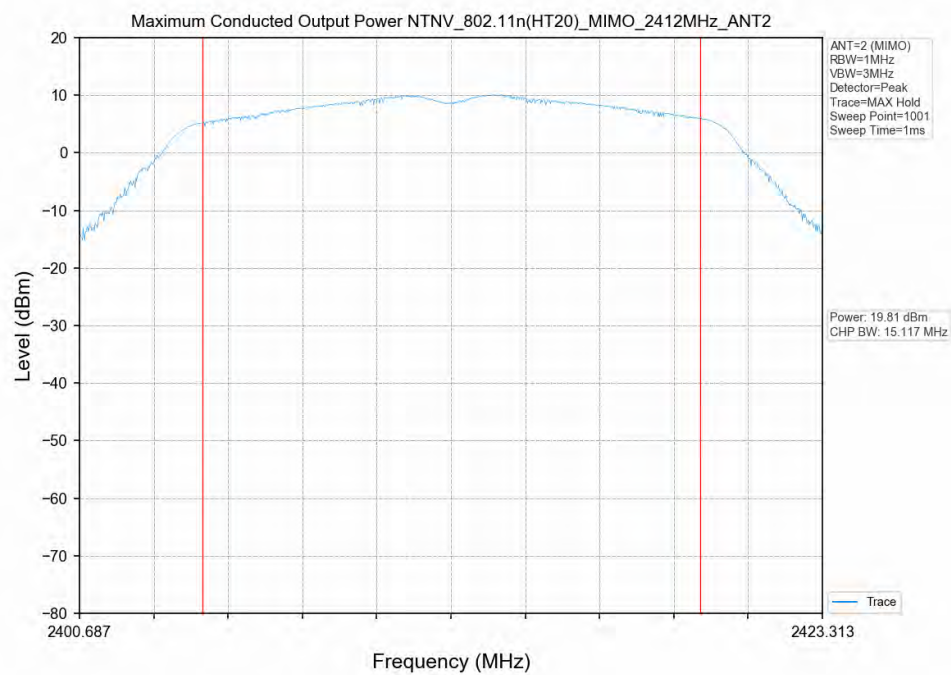
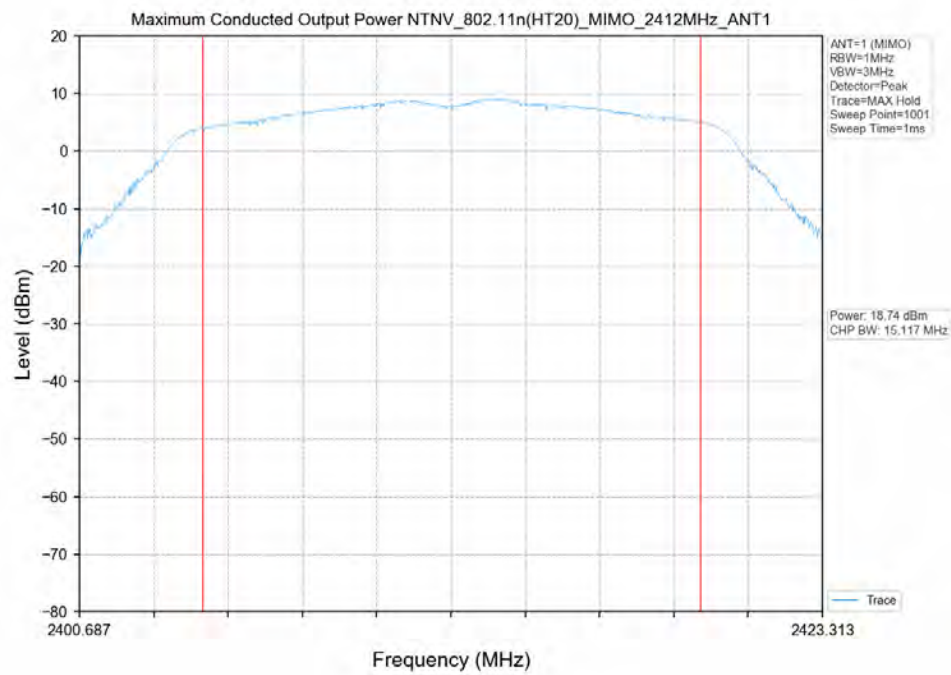


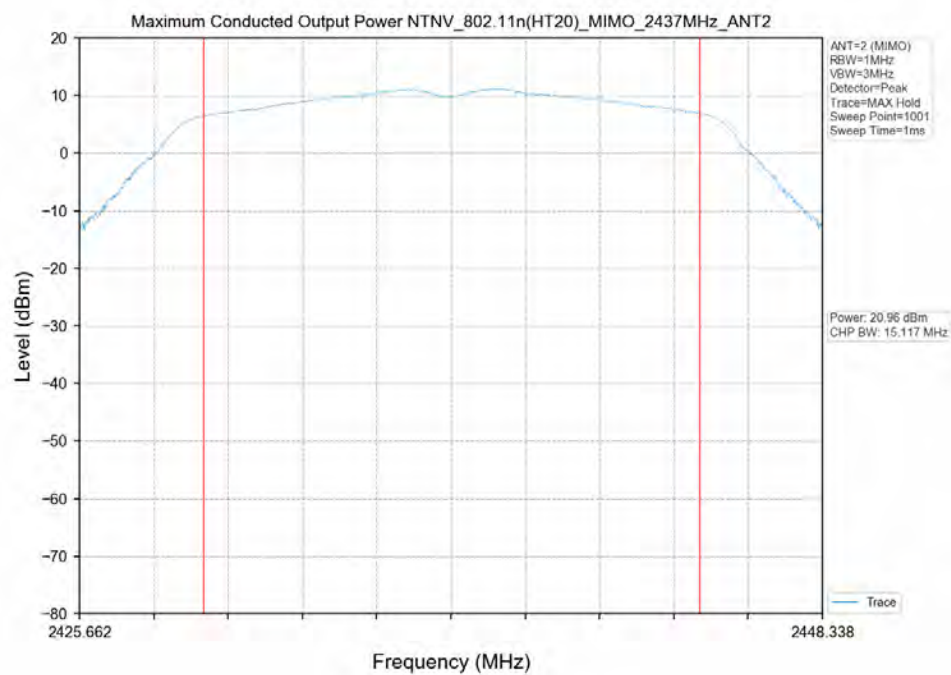


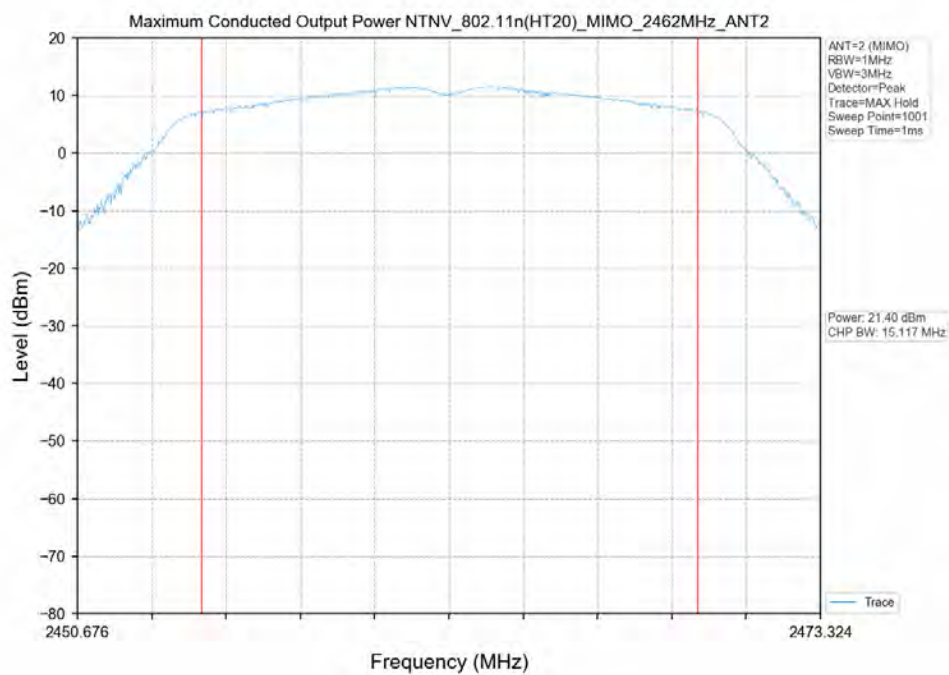
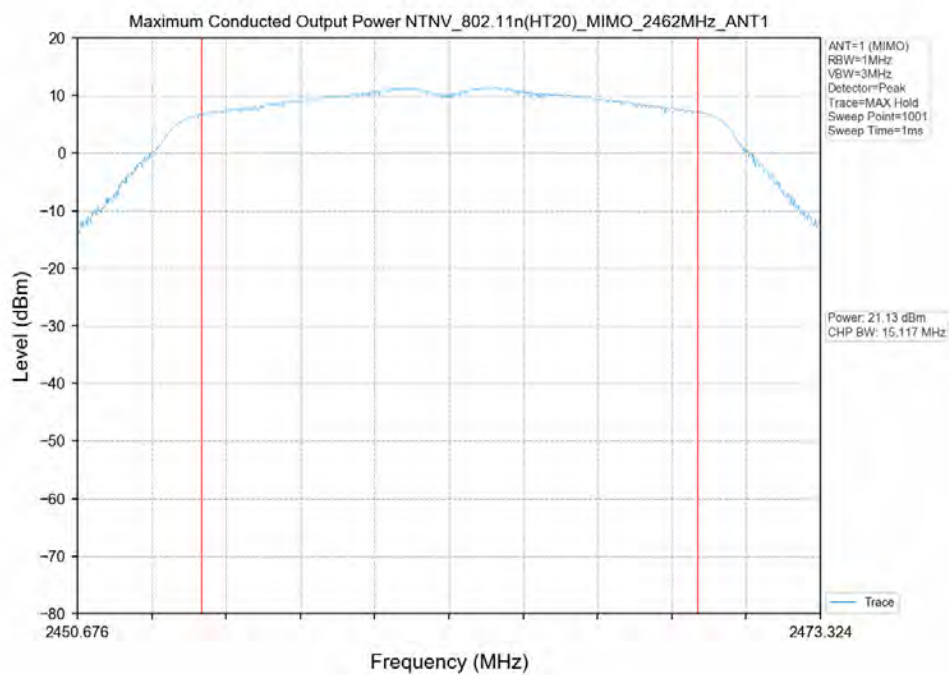


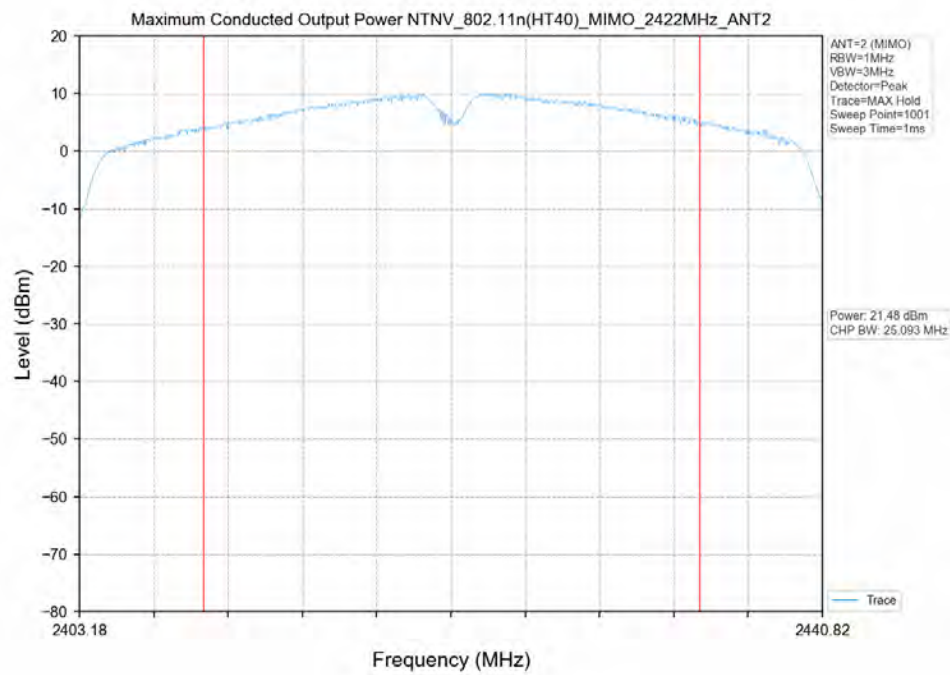
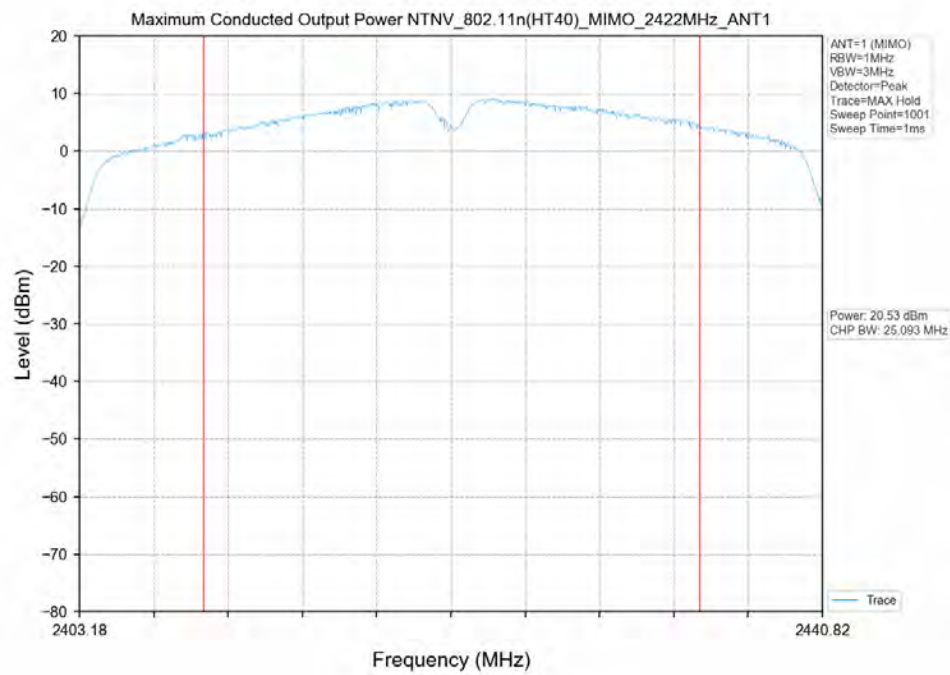


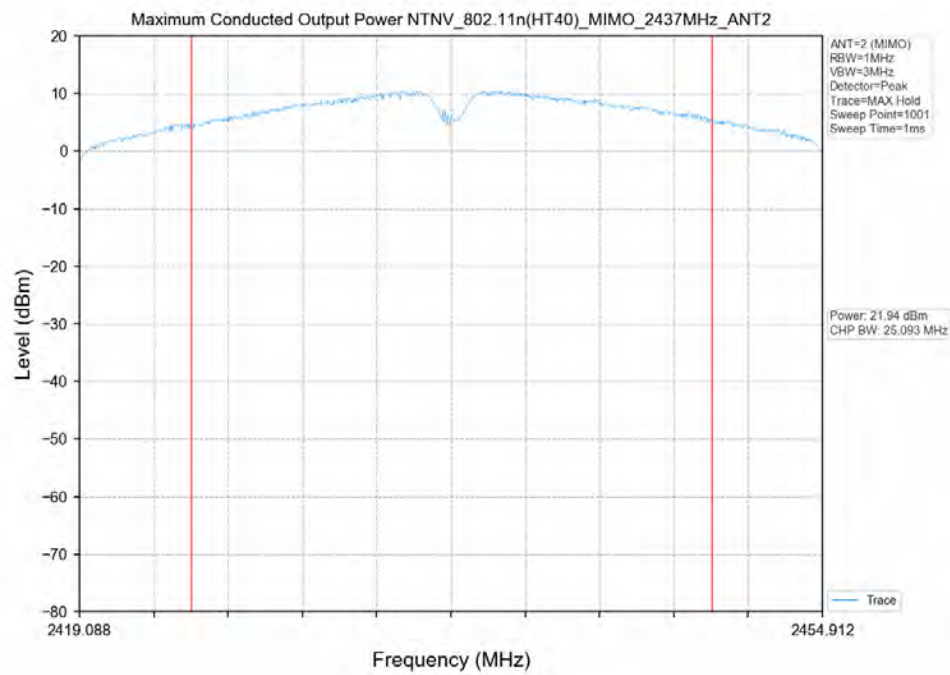
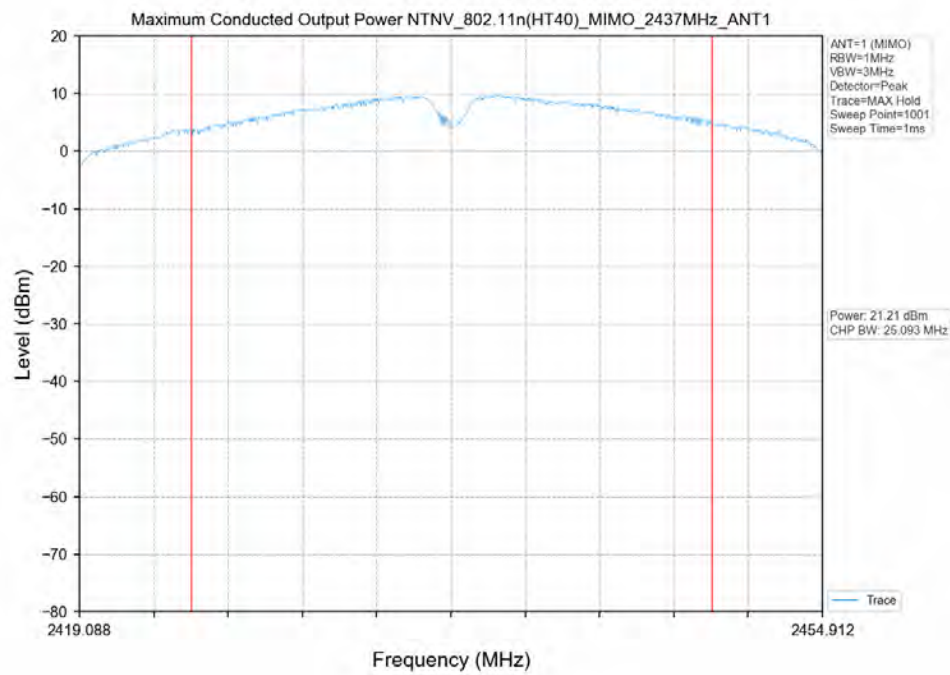


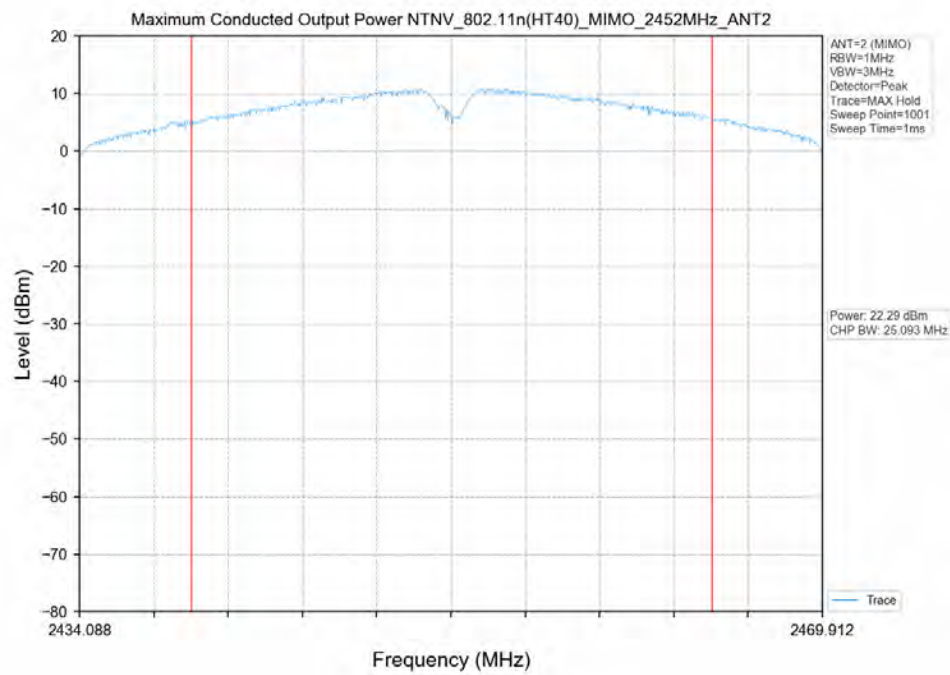
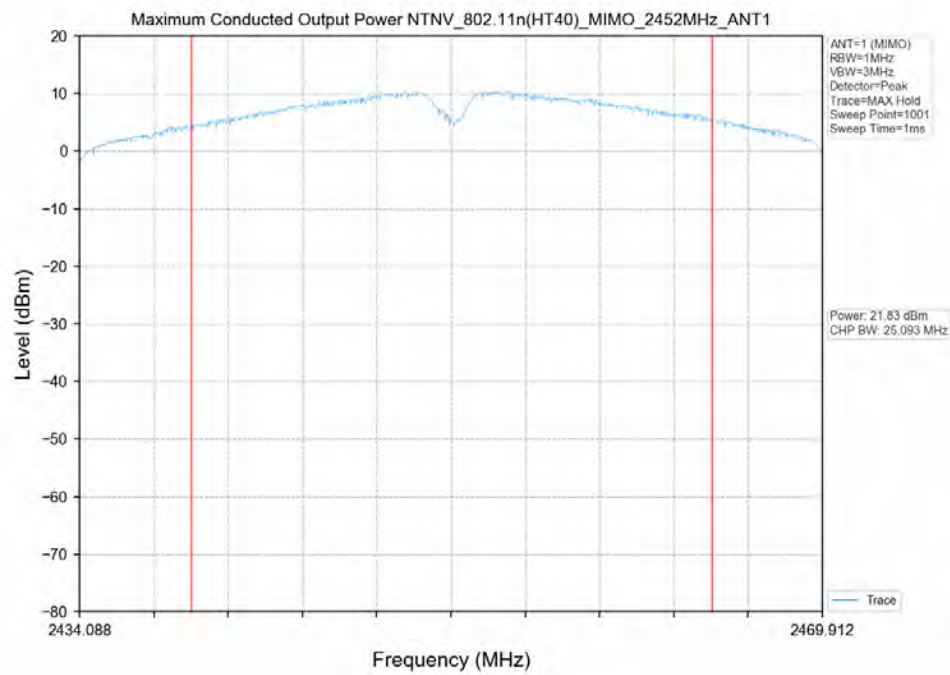












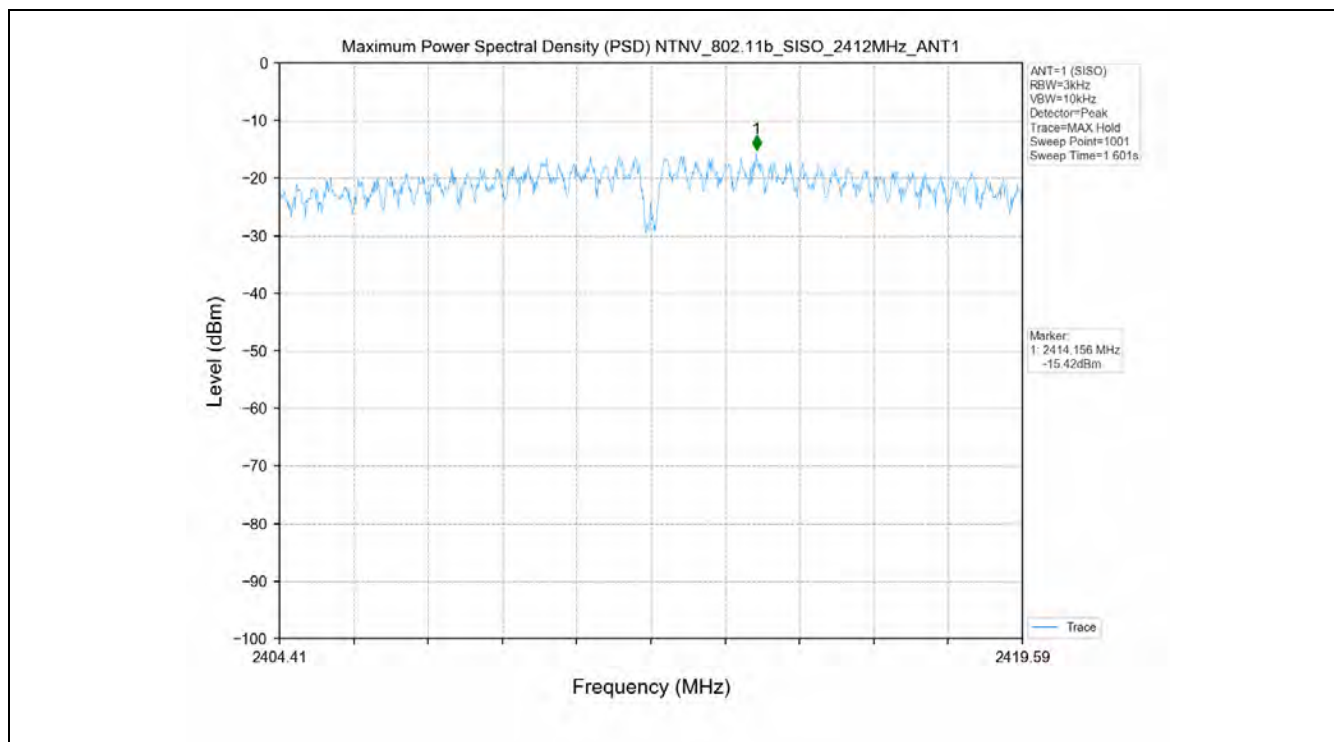


4. Maximum Power Spectral Density (PSD)

4.1 Test Result

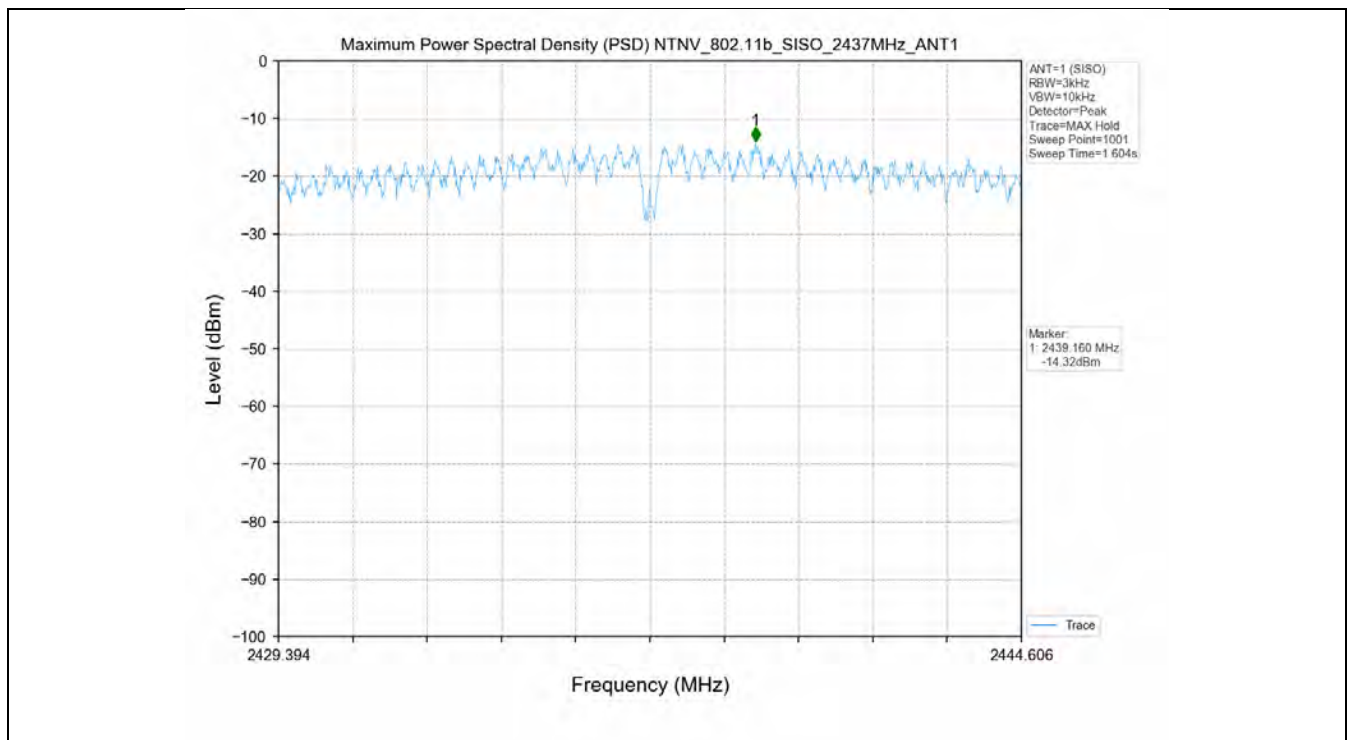
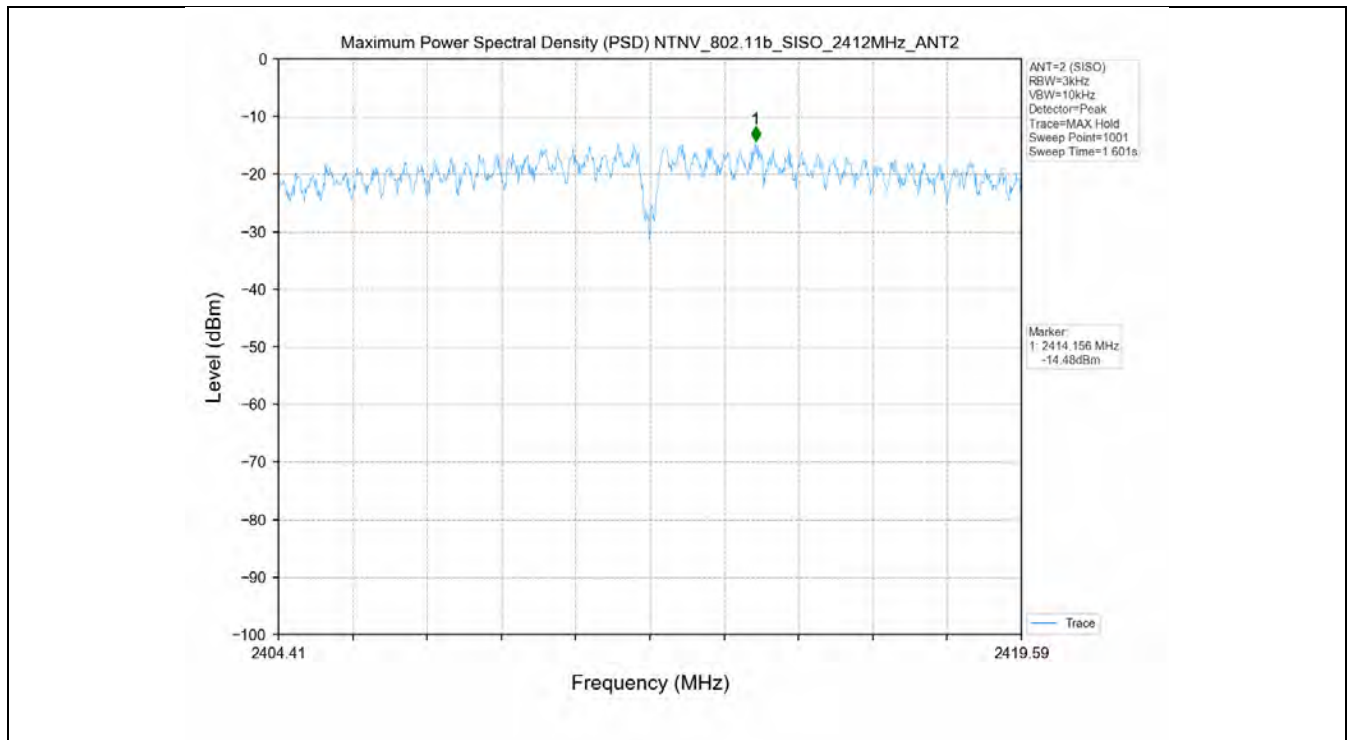
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-15.42	-14.48	/	≤8	PASS
	2437	SISO	-14.32	-13.61	/	≤8	PASS
	2462	SISO	-13.06	-12.65	/	≤8	PASS
802.11g	2412	SISO	-15.27	-14.51	/	≤8	PASS
	2437	SISO	-14.11	-13.74	/	≤8	PASS
	2462	SISO	-13.71	-13.20	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-15.67	-14.20	-12.01	≤8	PASS
	2437	MIMO	-14.21	-13.22	-10.80	≤8	PASS
	2462	MIMO	-12.77	-12.31	-9.52	≤8	PASS
802.11n(HT40)	2422	MIMO	-13.11	-12.37	-9.72	≤8	PASS
	2437	MIMO	-12.47	-11.82	-9.13	≤8	PASS
	2452	MIMO	-12.01	-12.04	-9.02	≤8	PASS

4.2 Test Graph



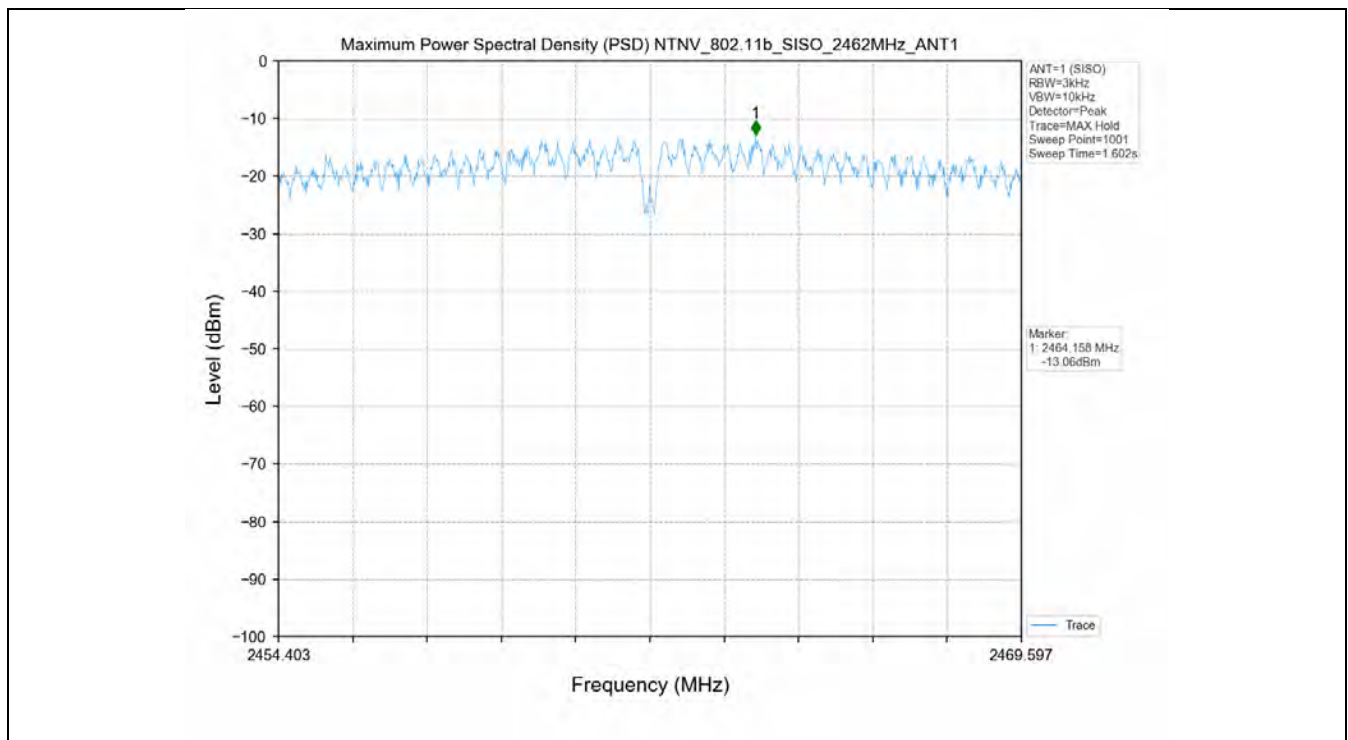
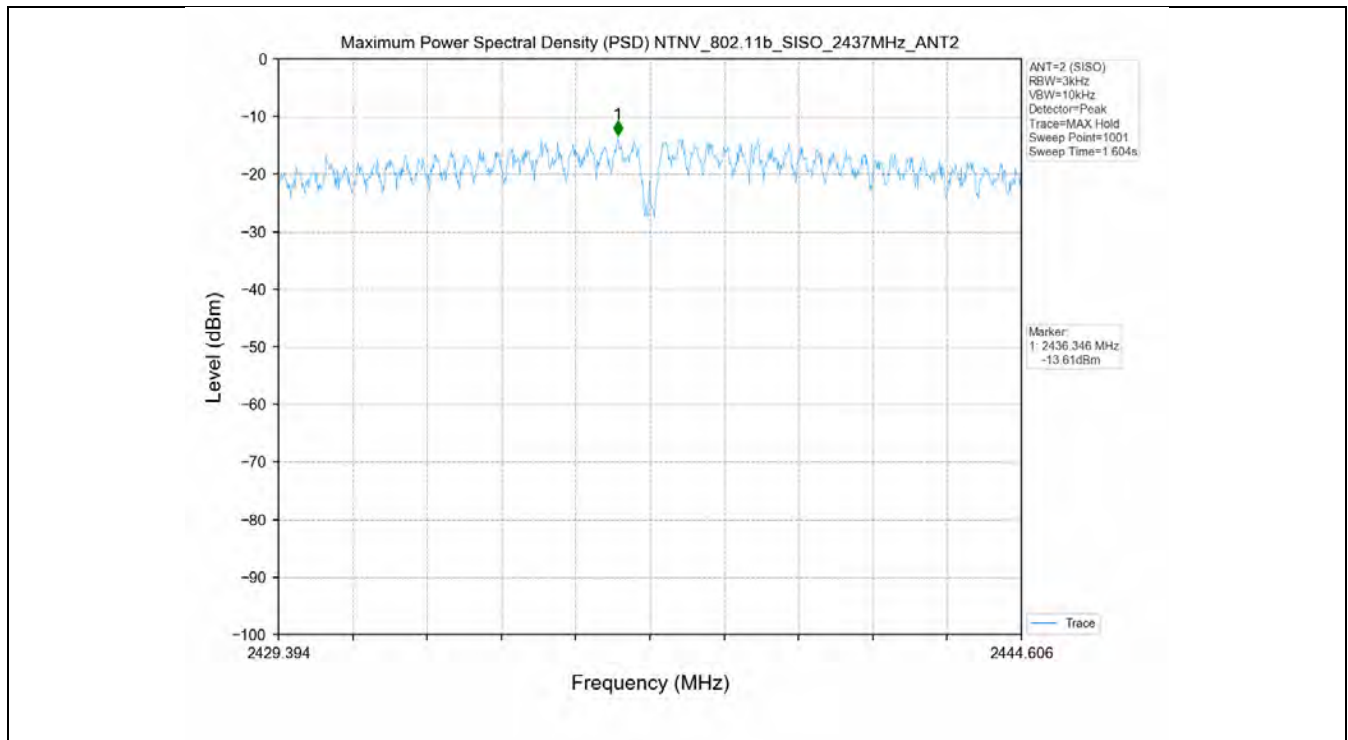


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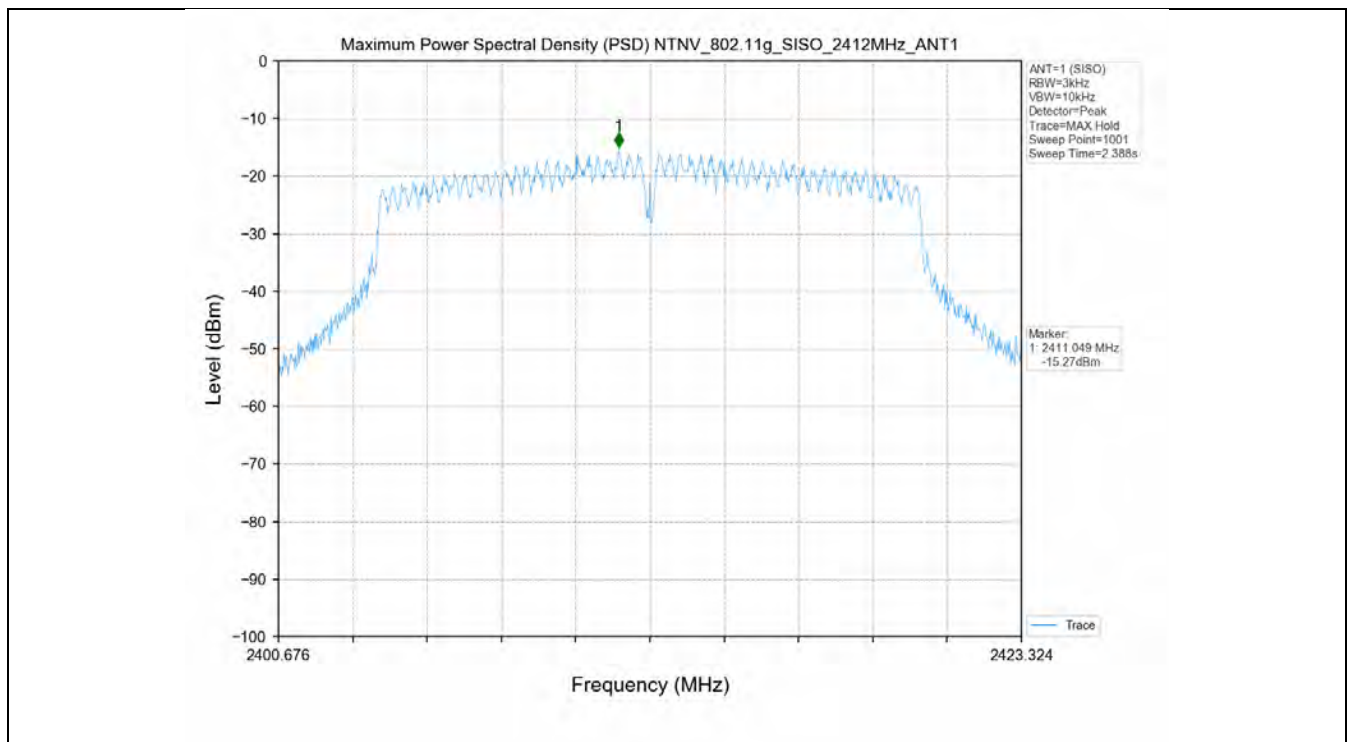
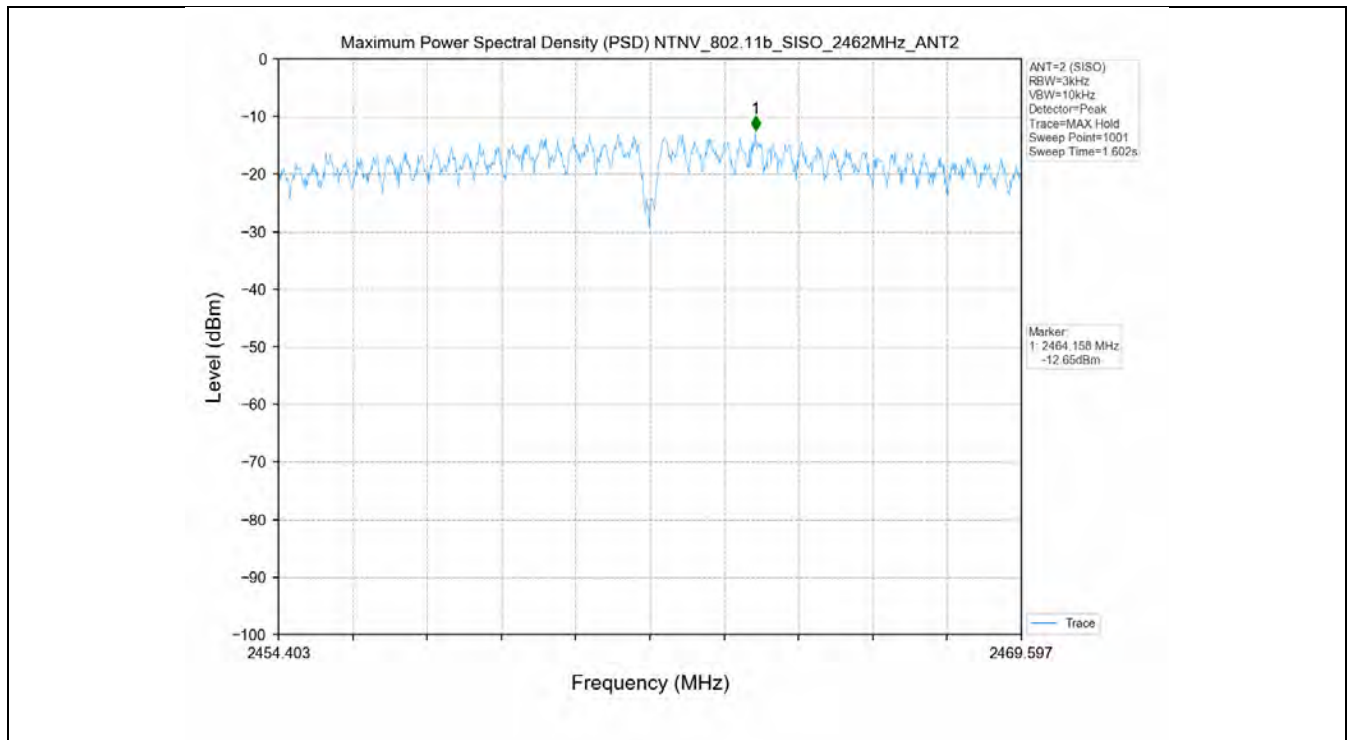


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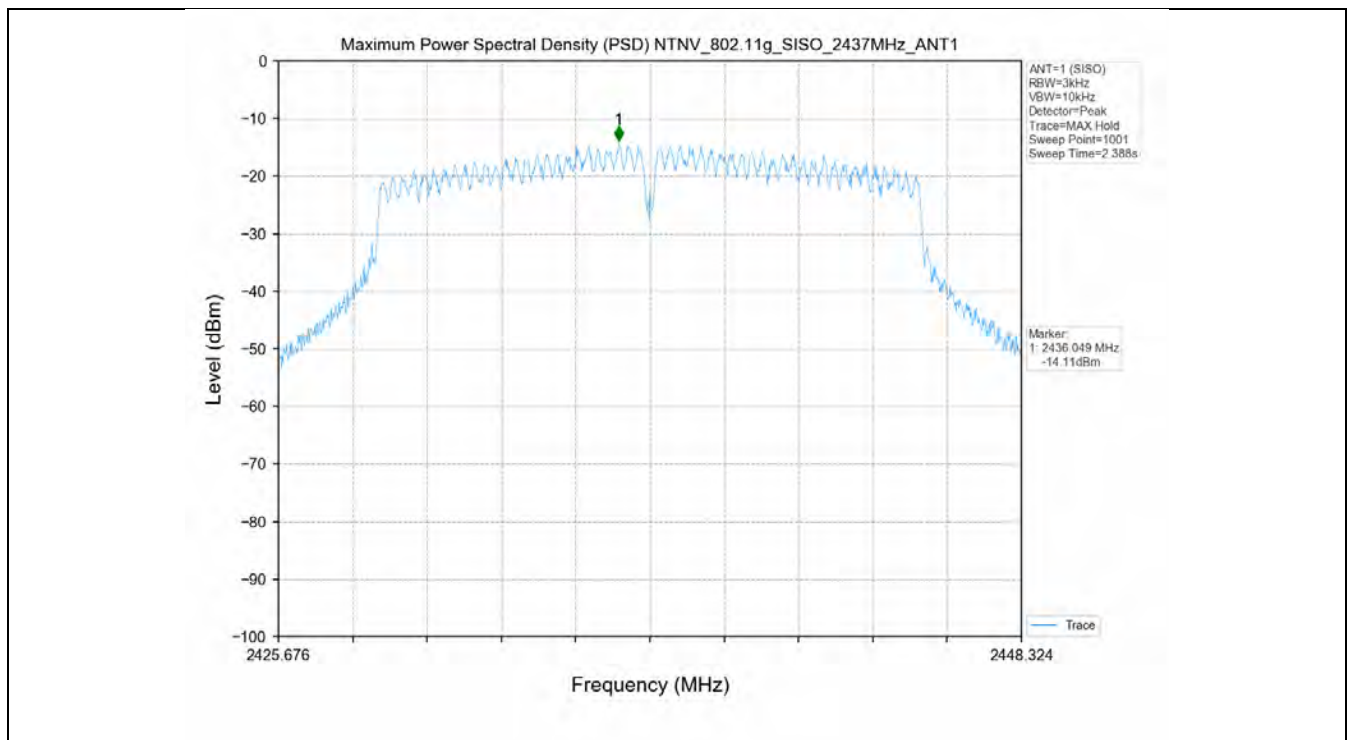
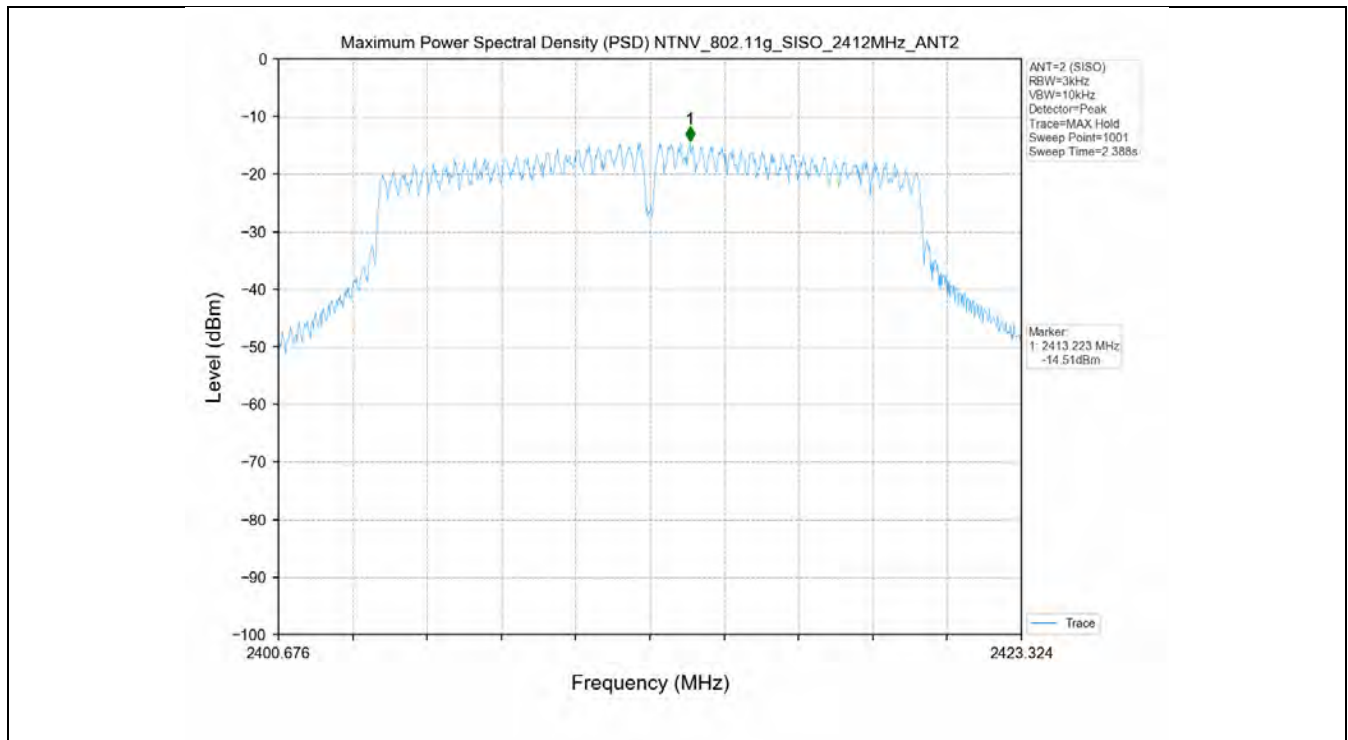


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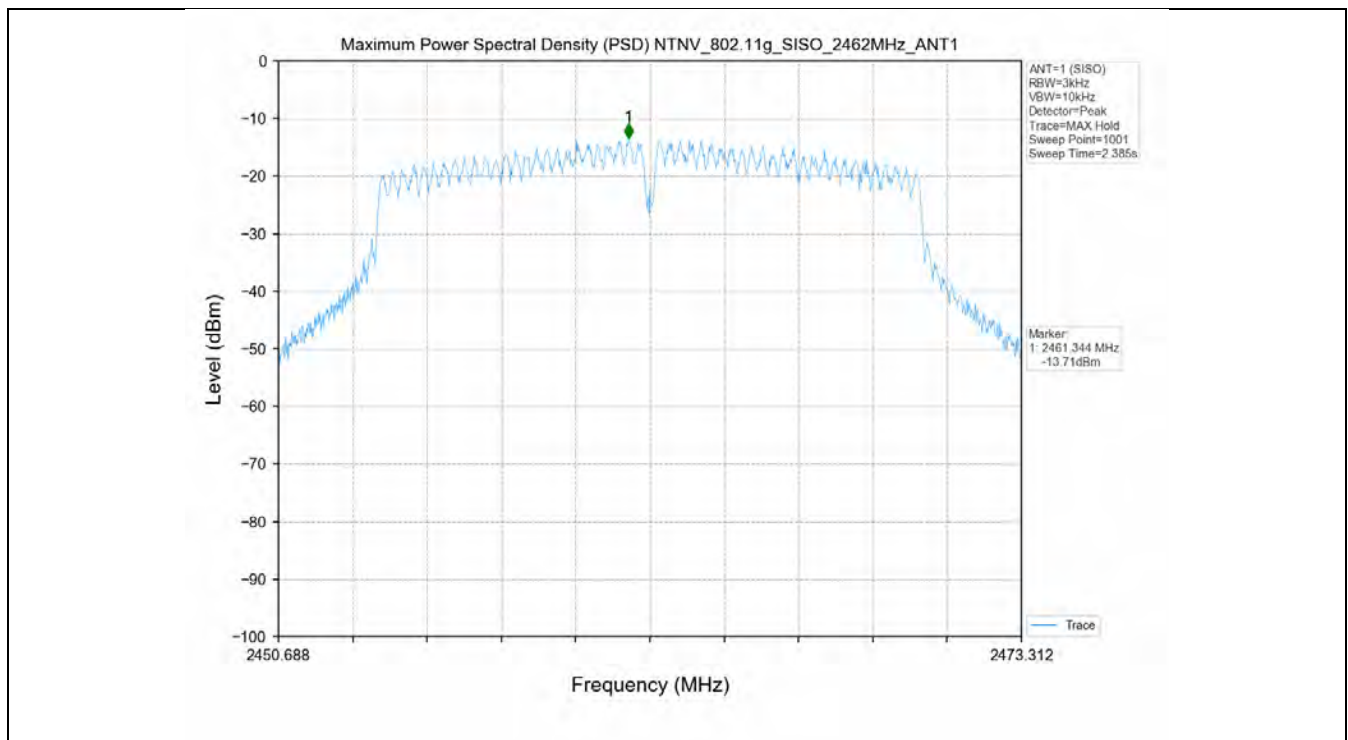
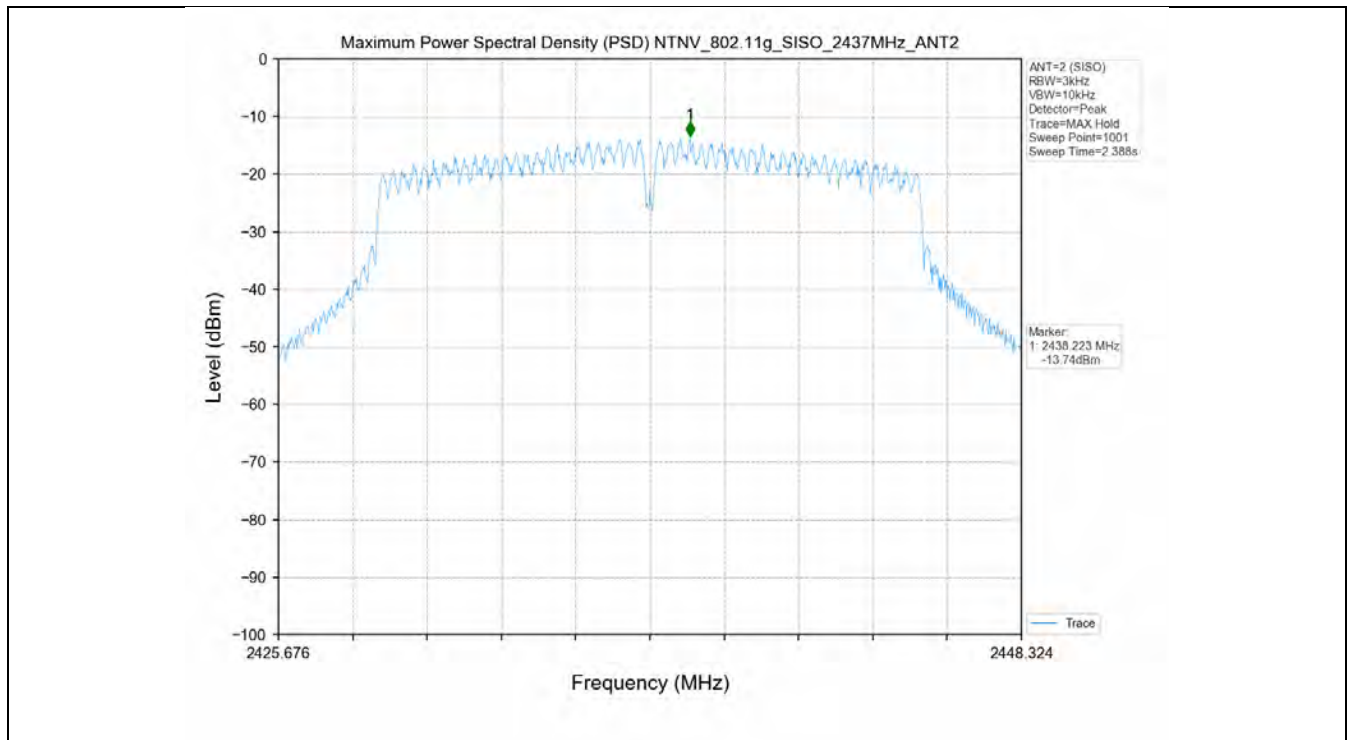


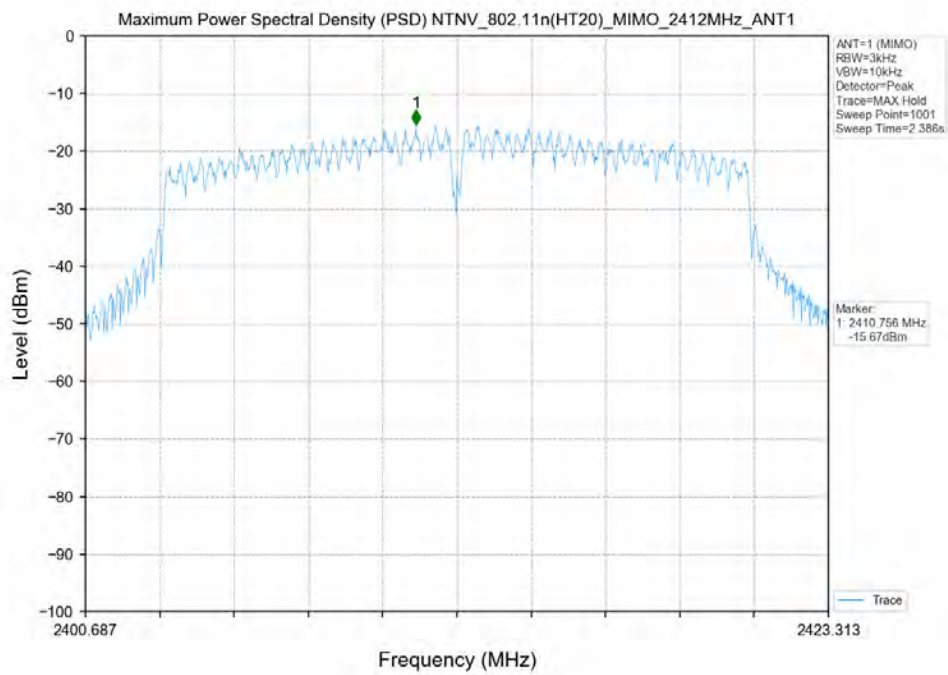
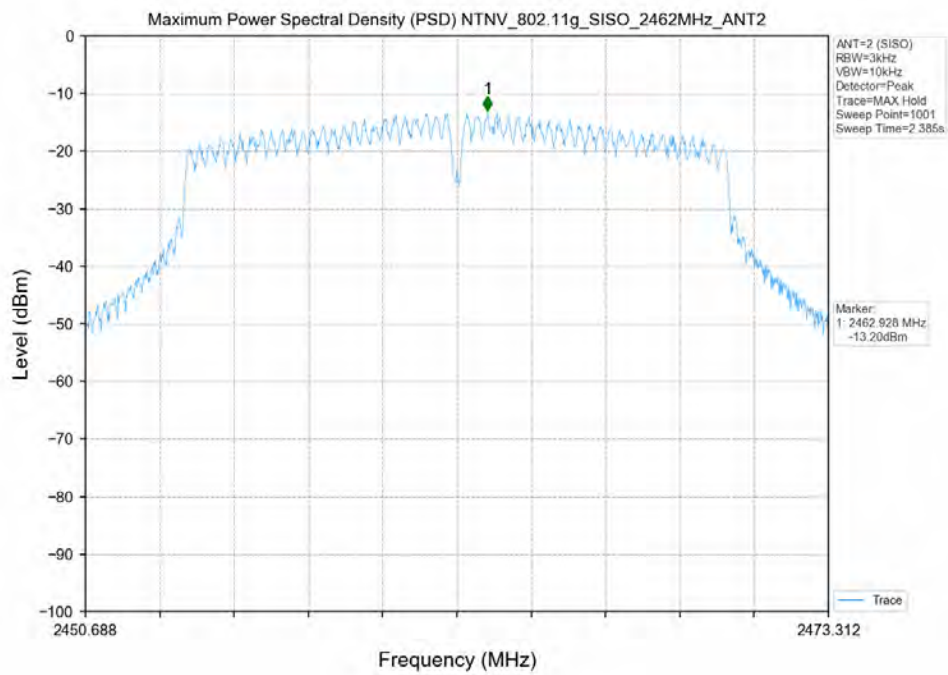
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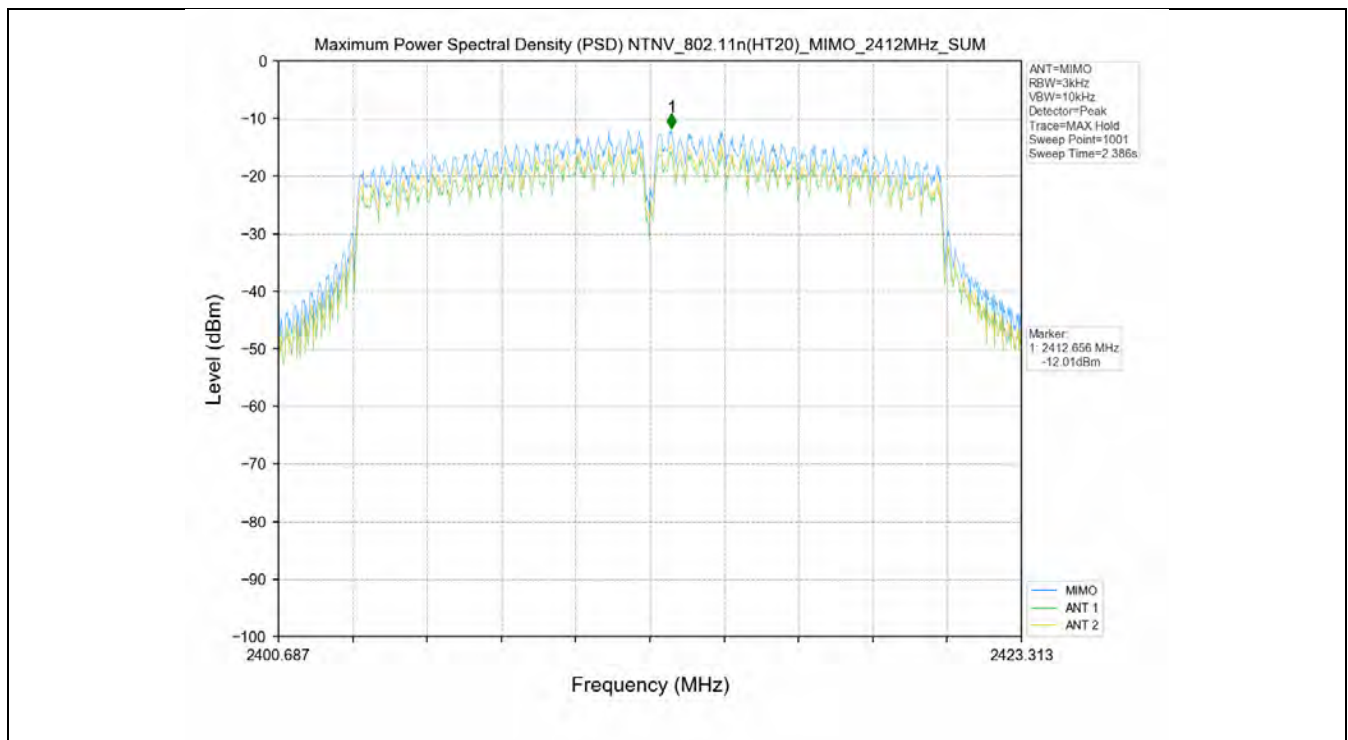
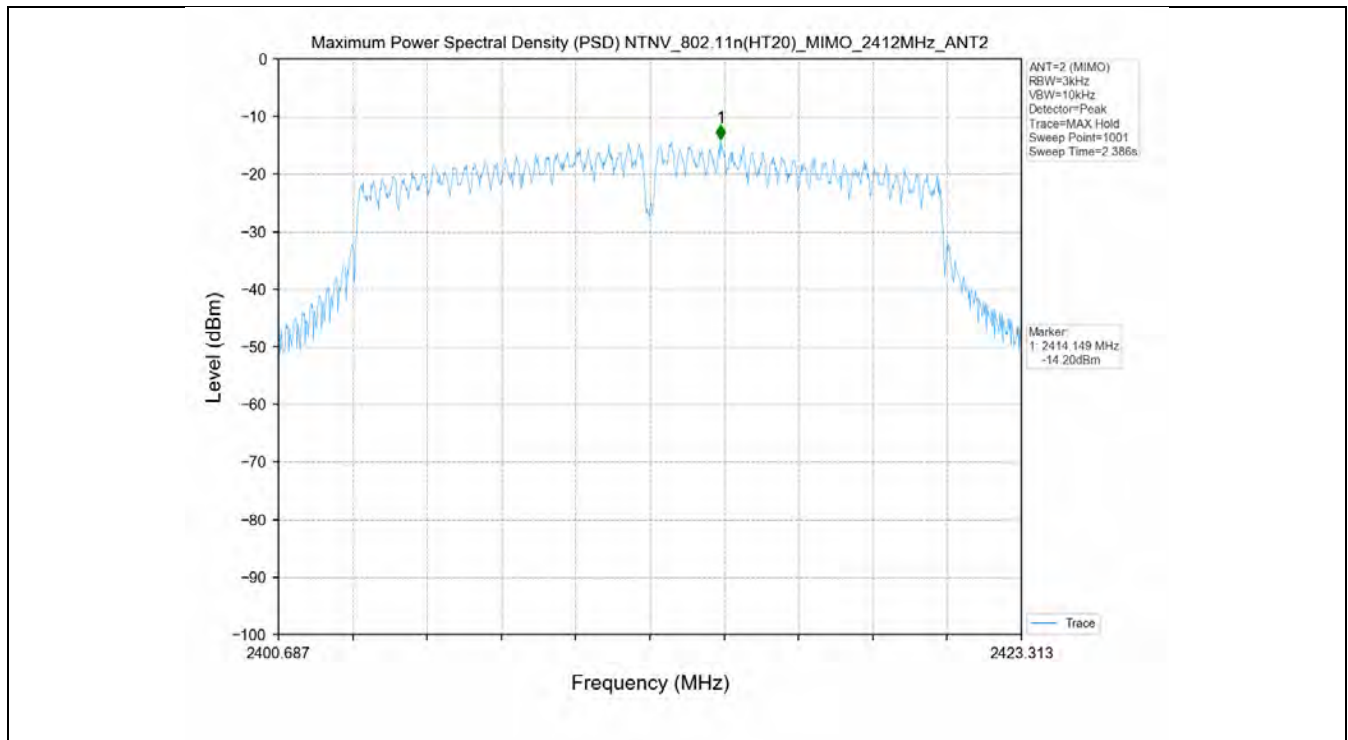
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.





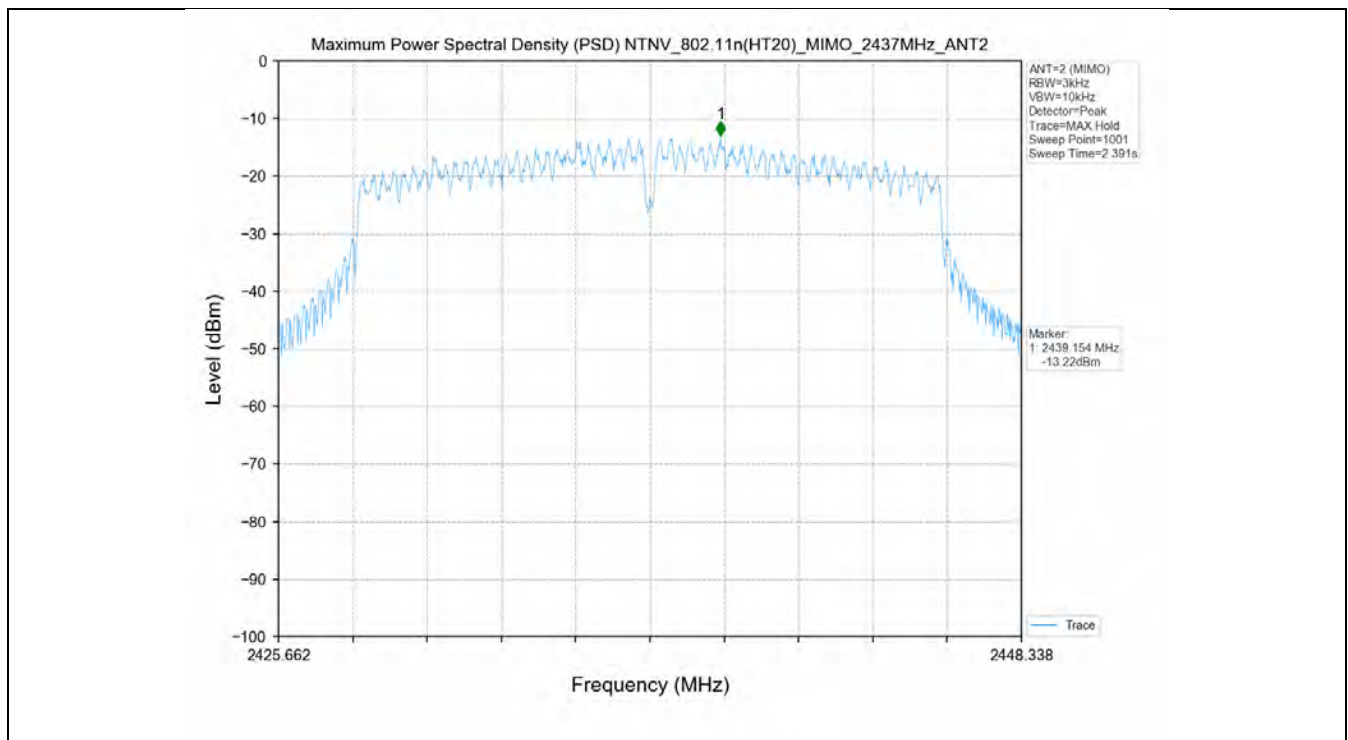
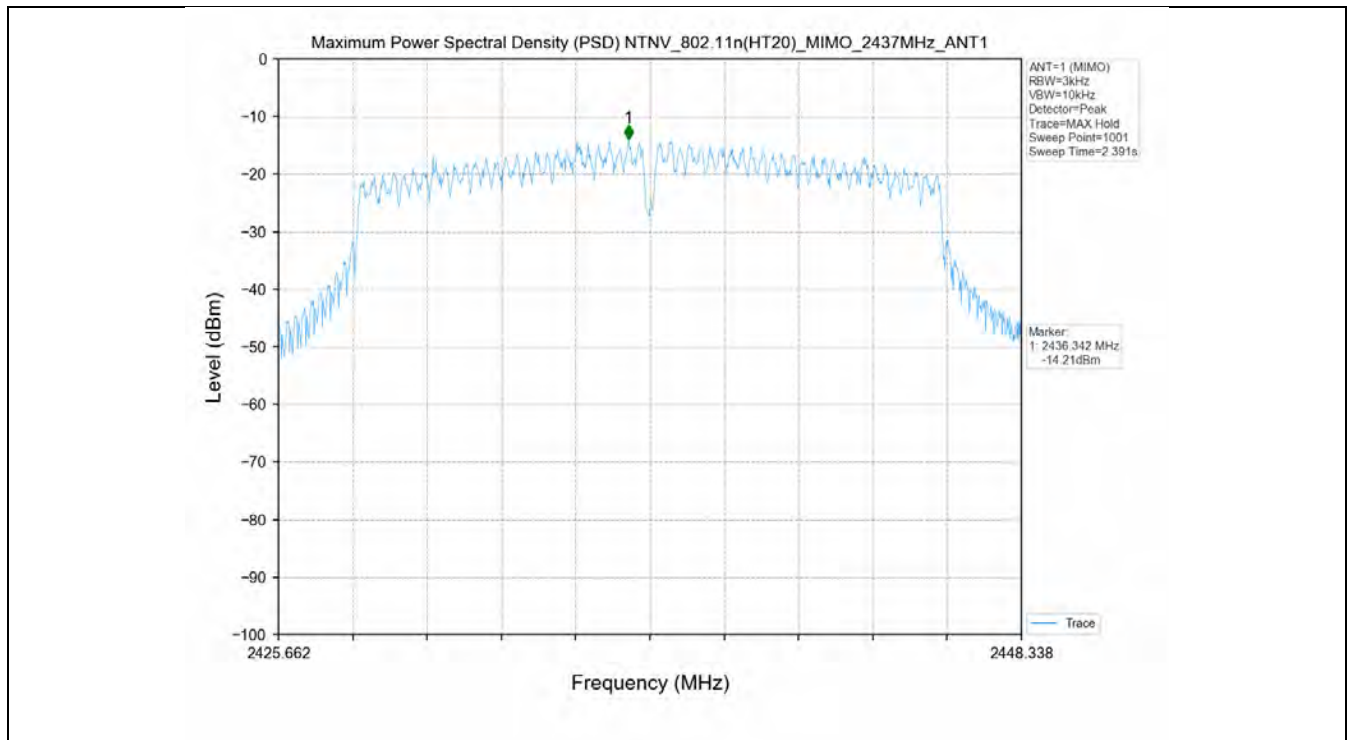


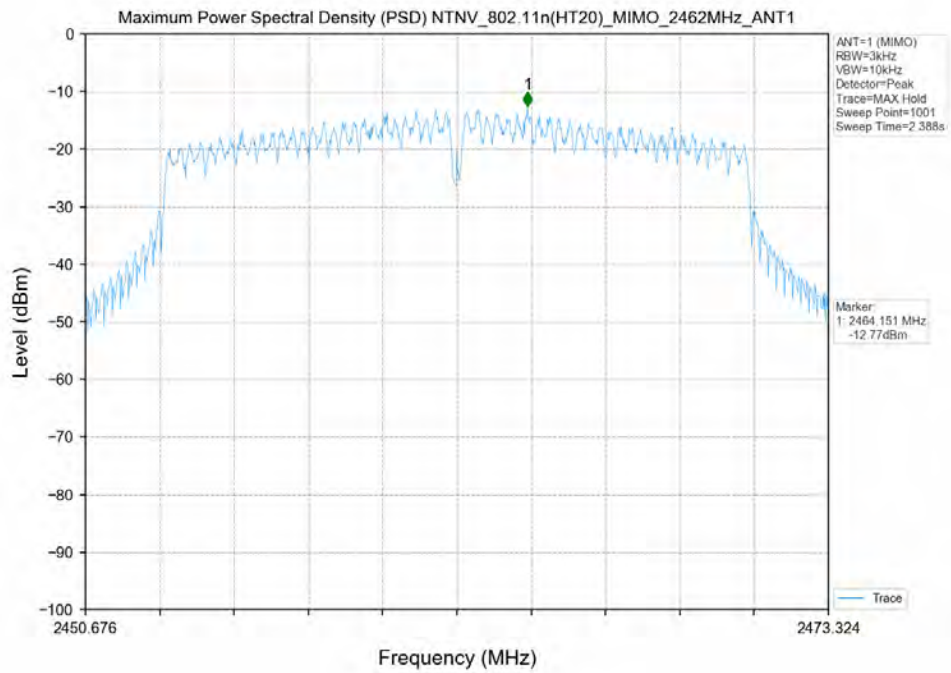
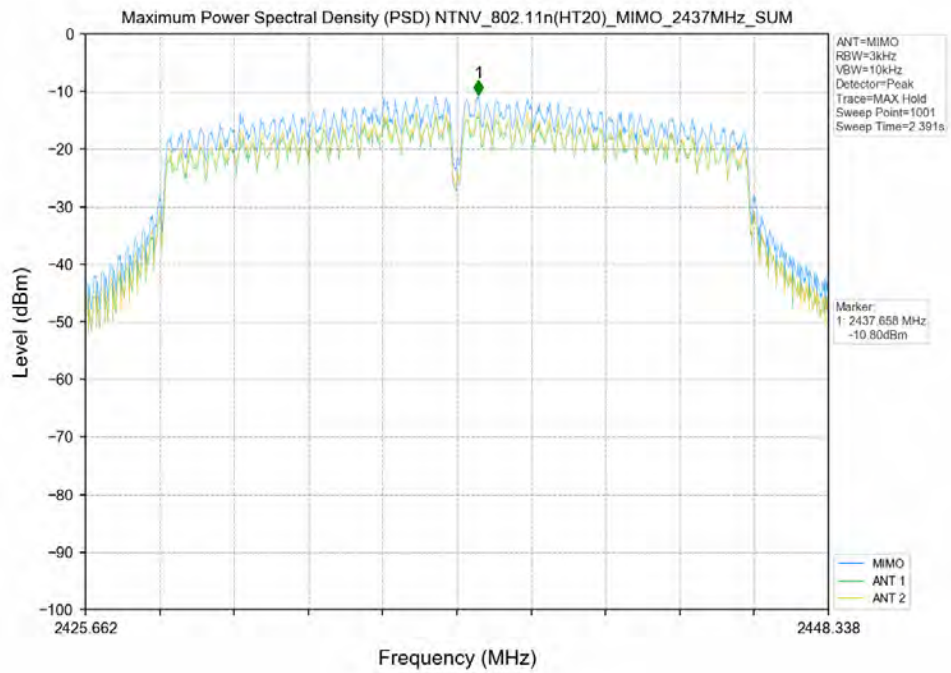
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

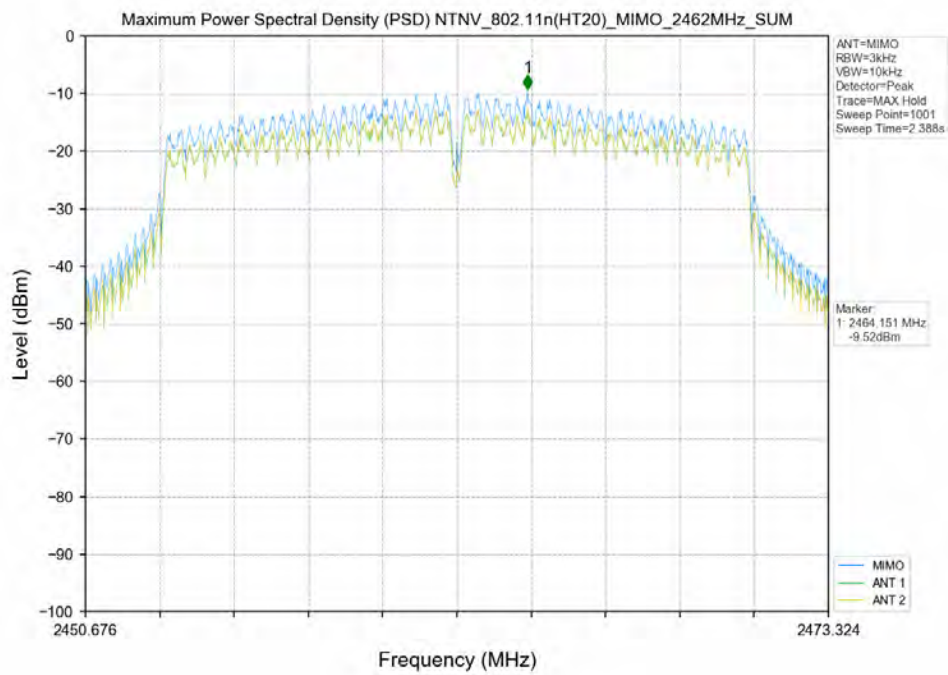
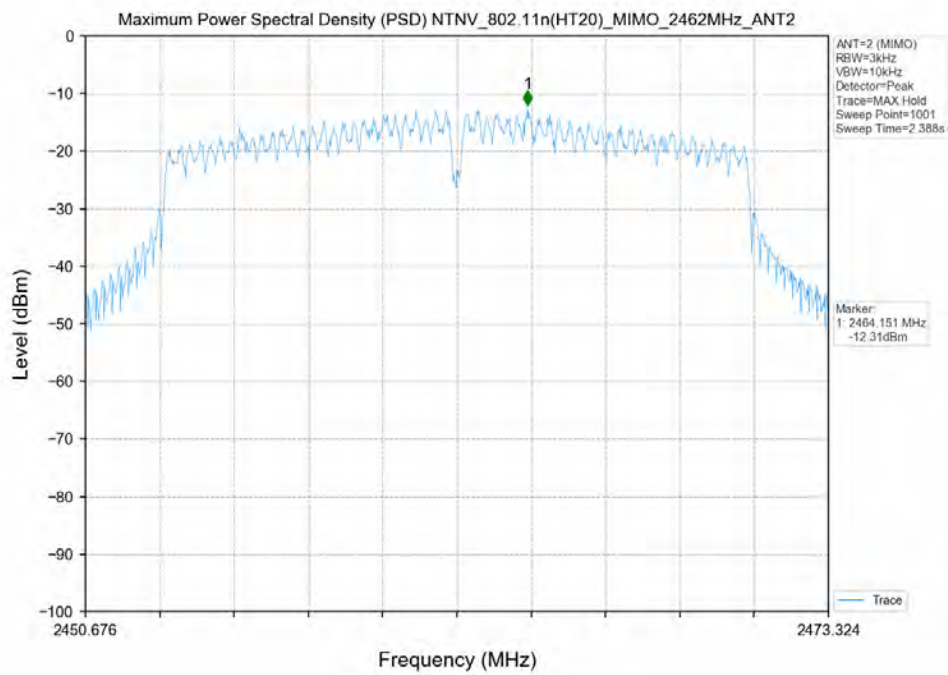




SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

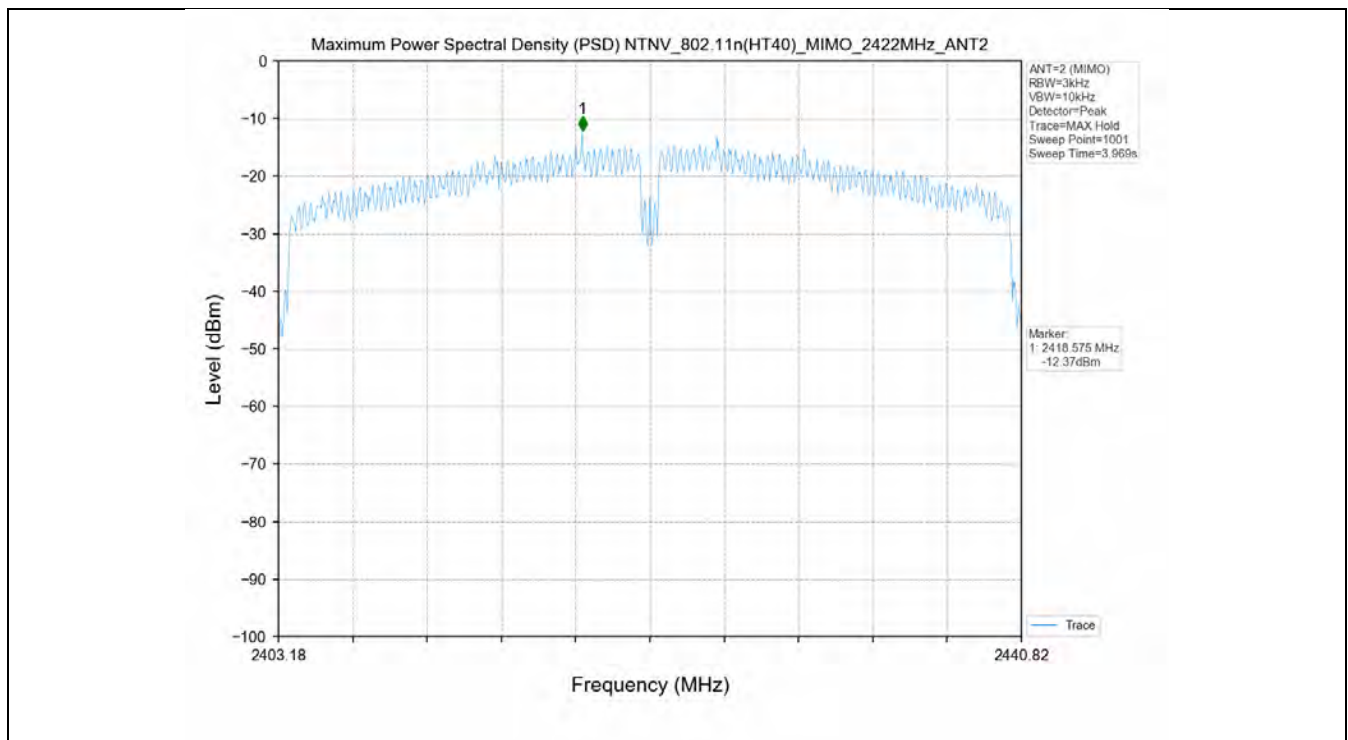
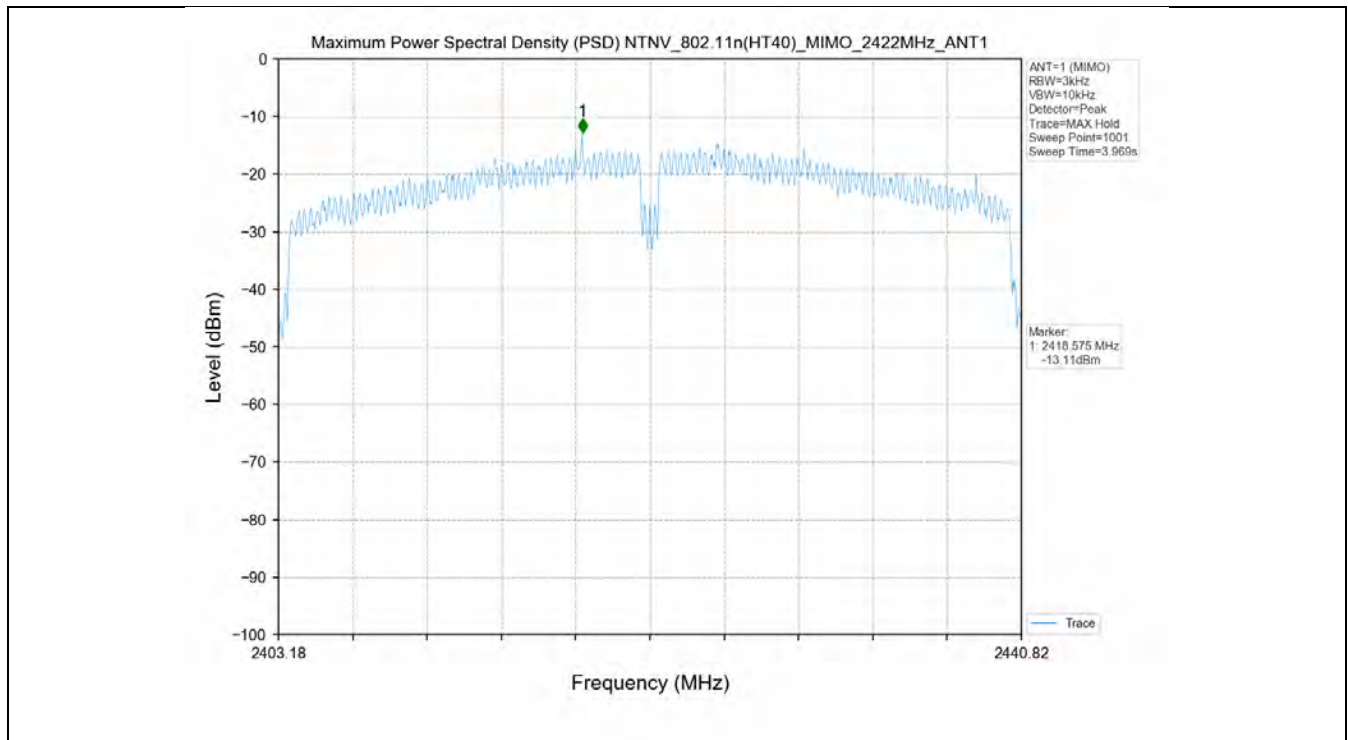


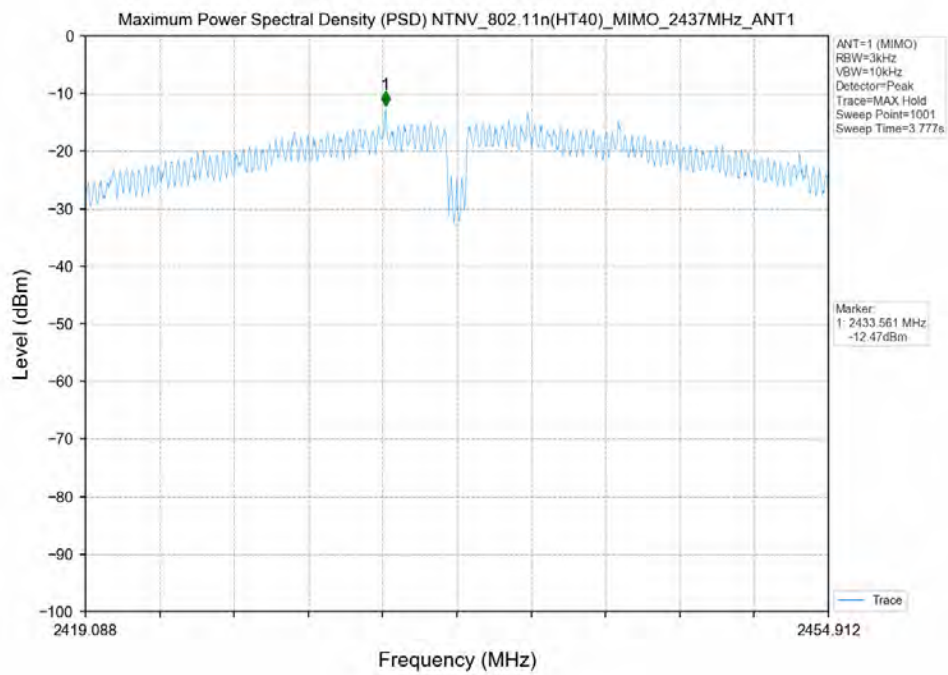


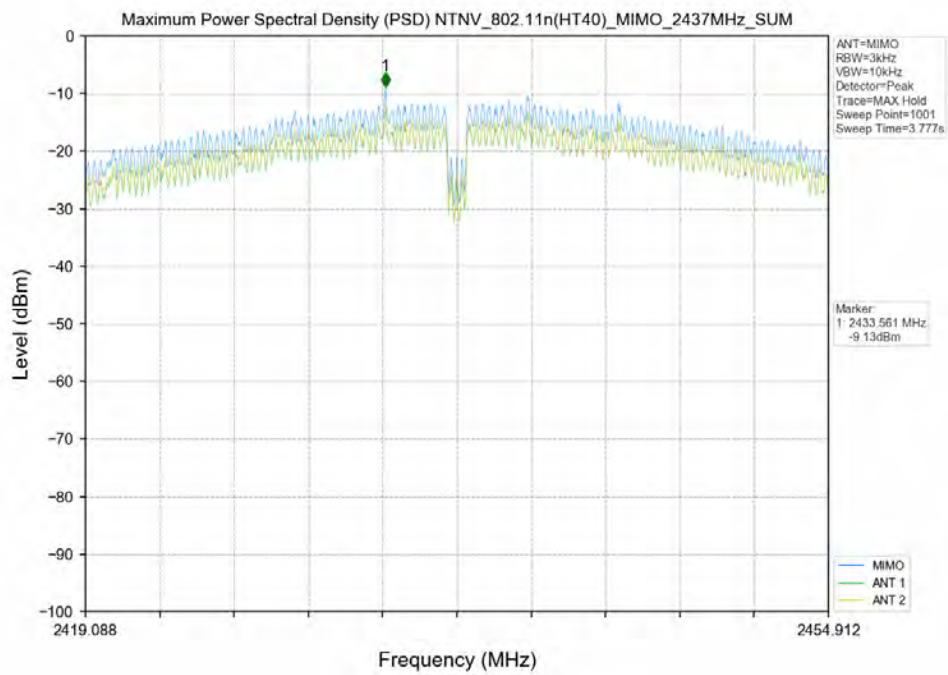
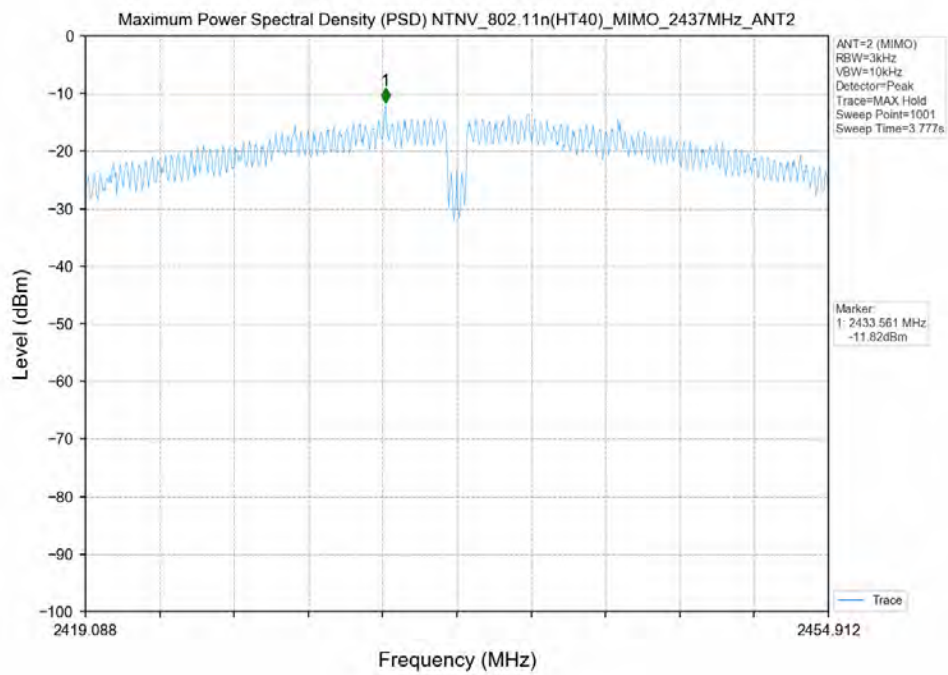




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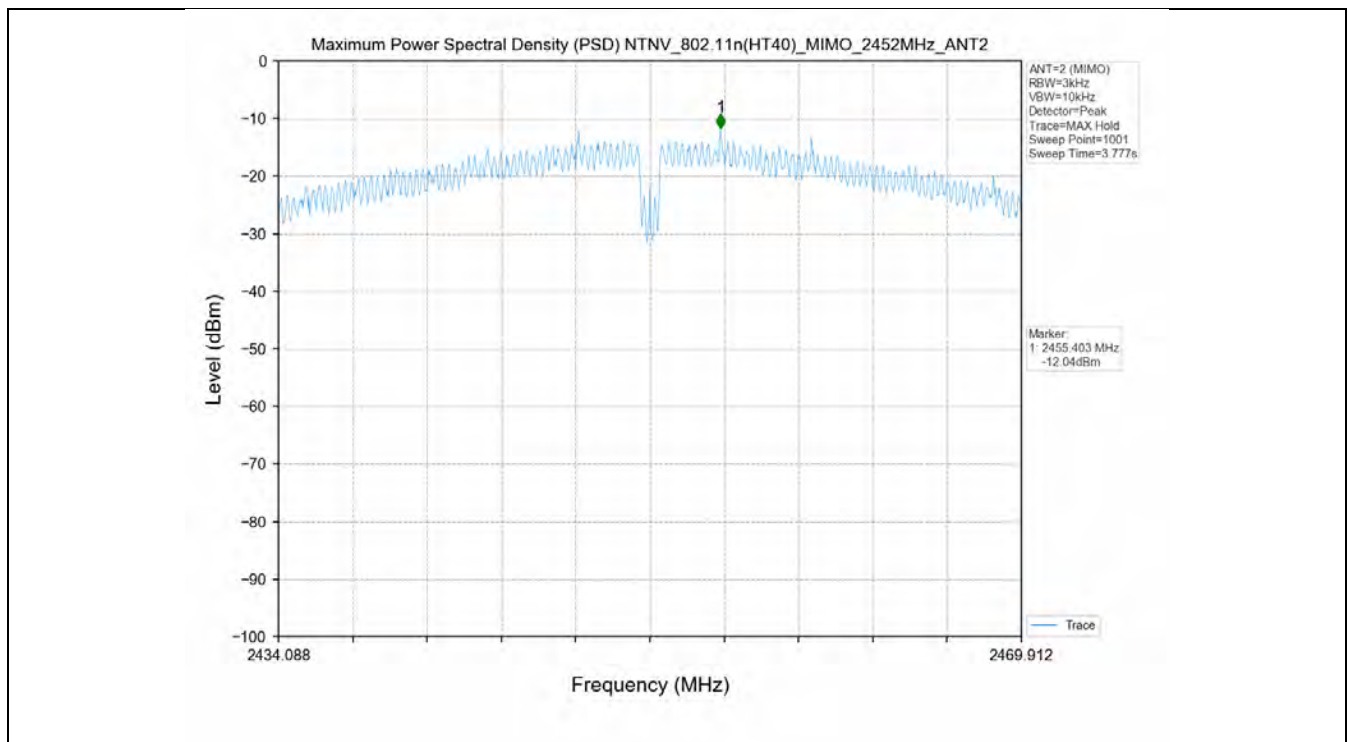
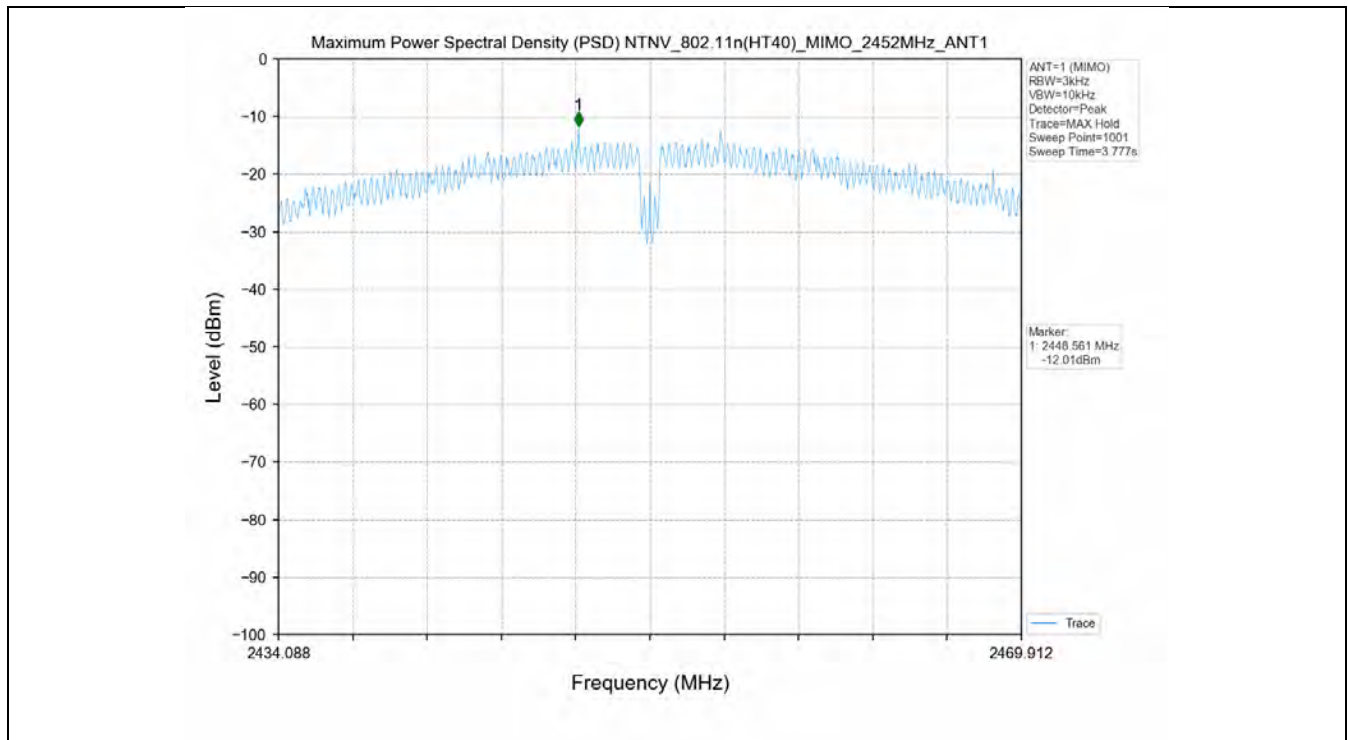


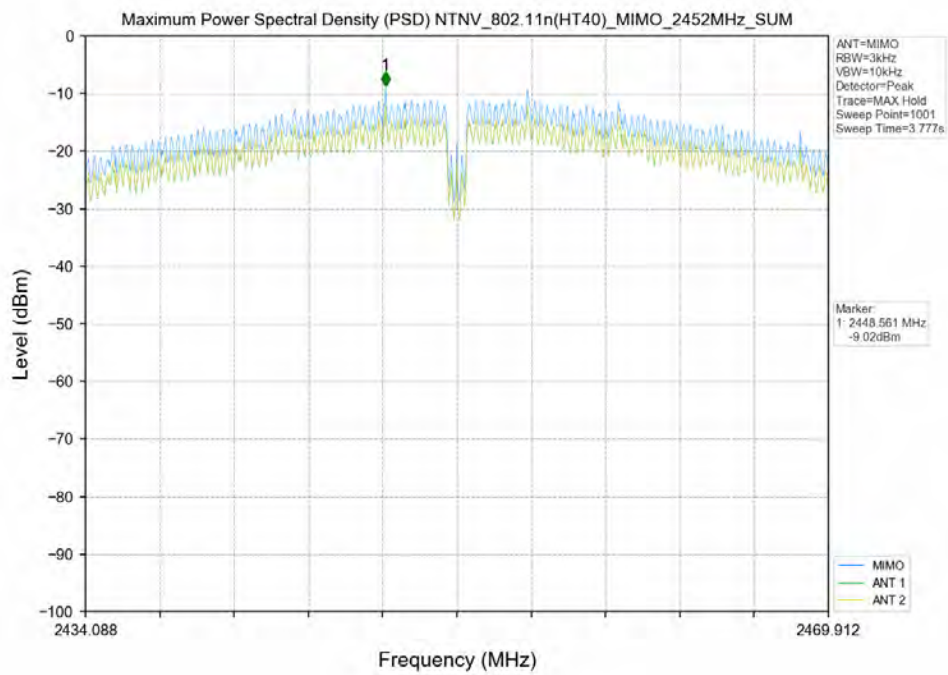






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5. Unwanted Emissions in Non-restricted Frequency Bands

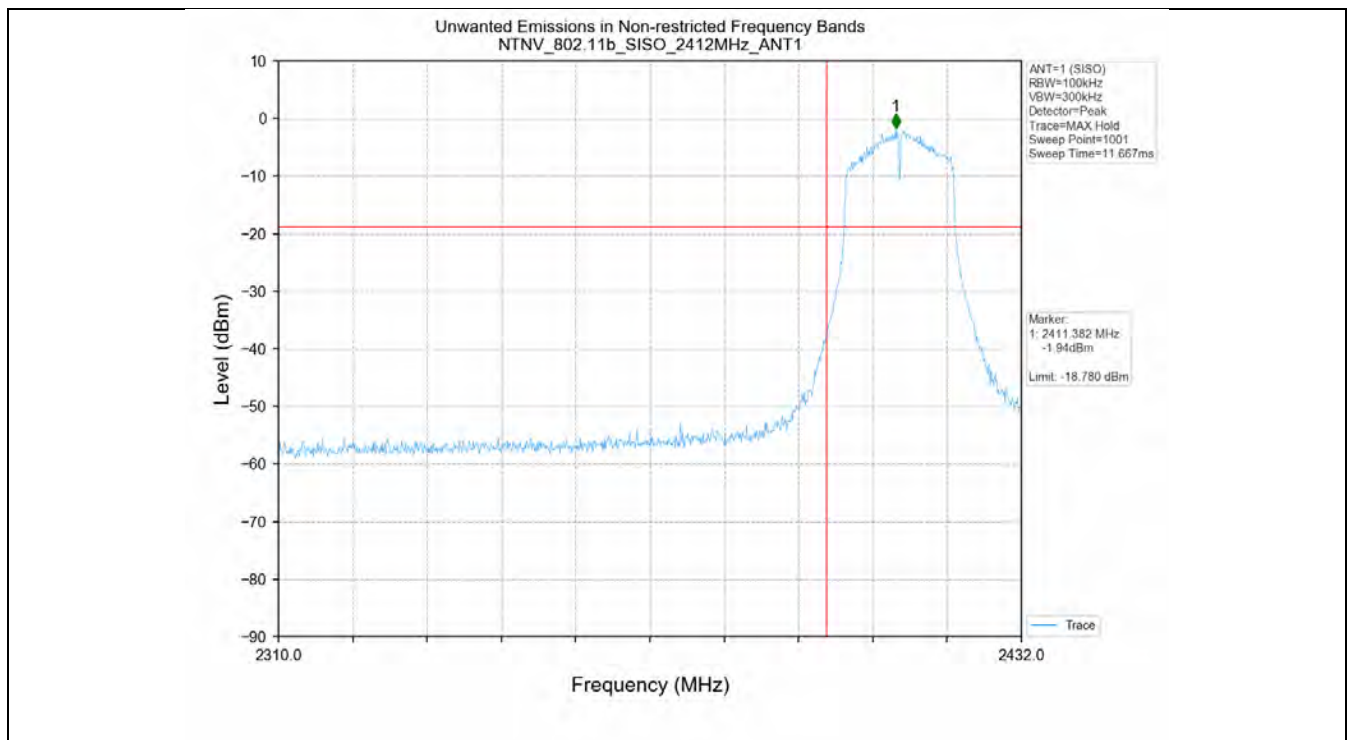
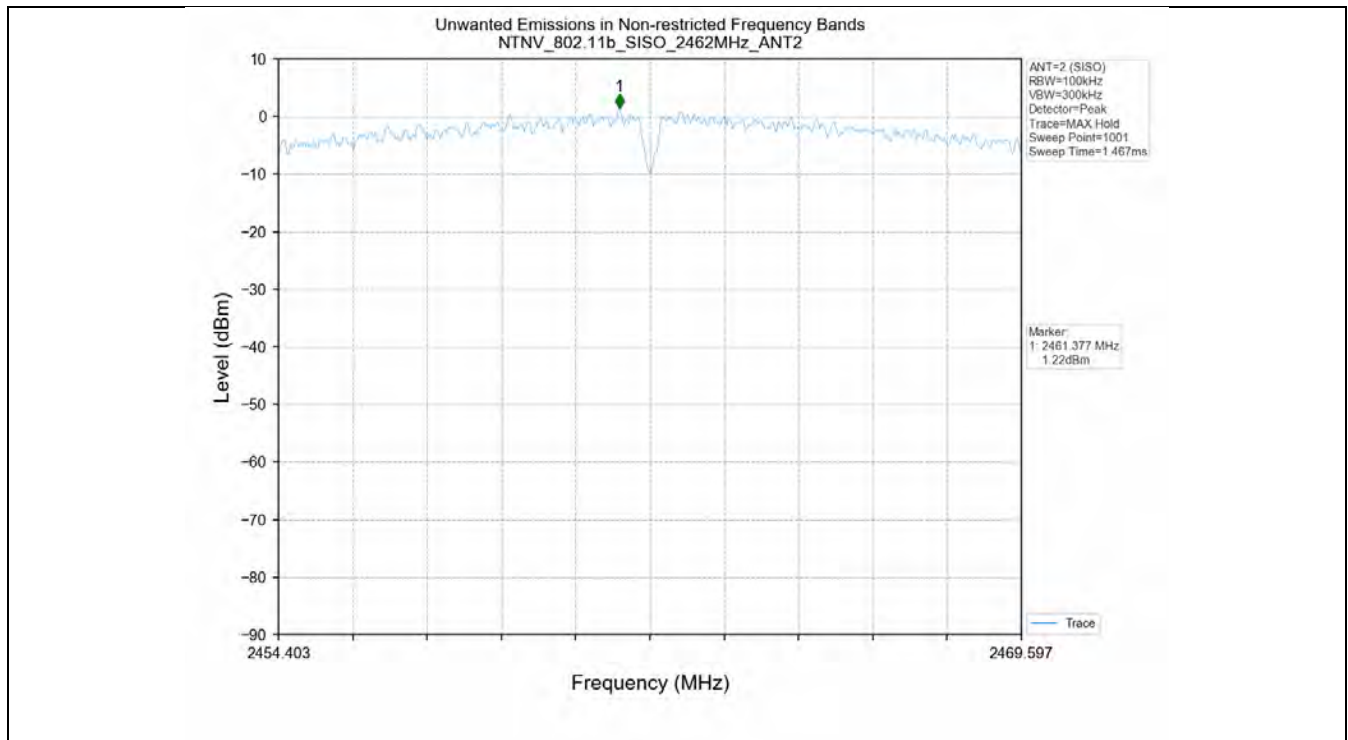
5.1 Test Result

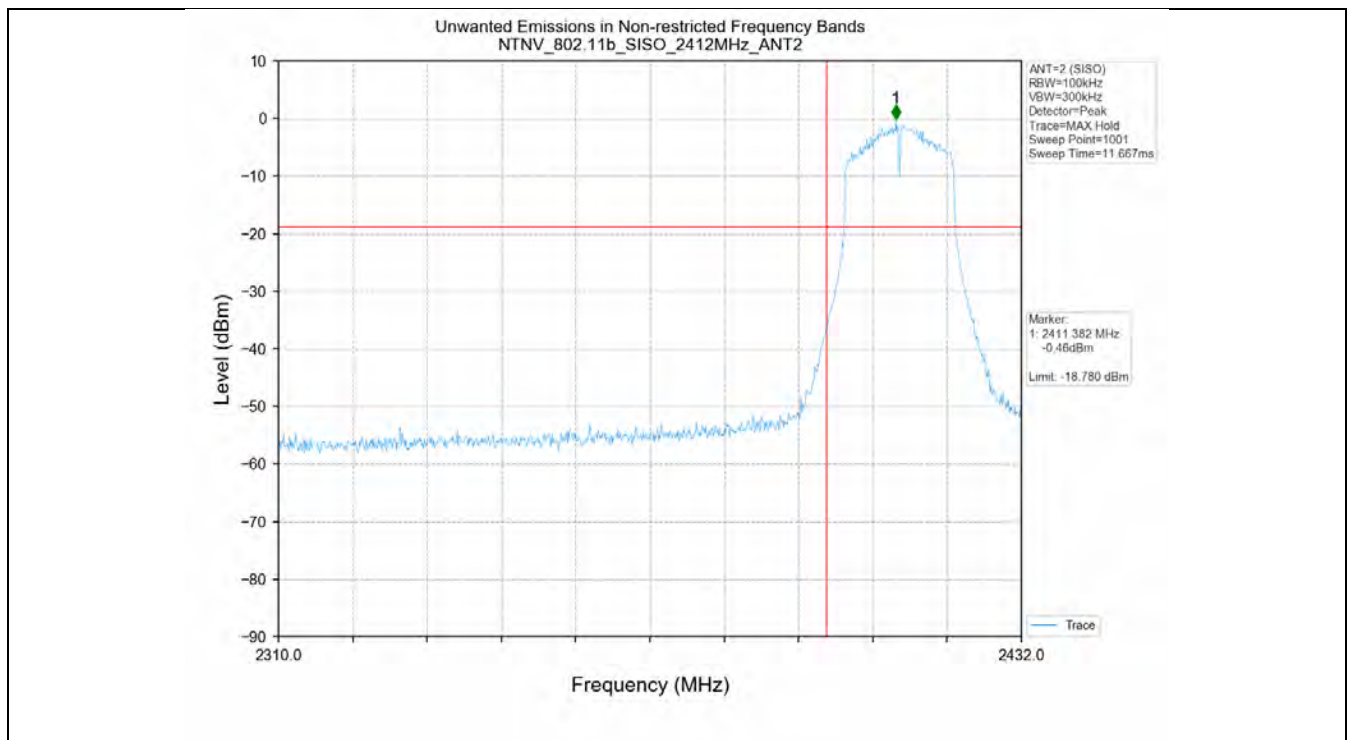
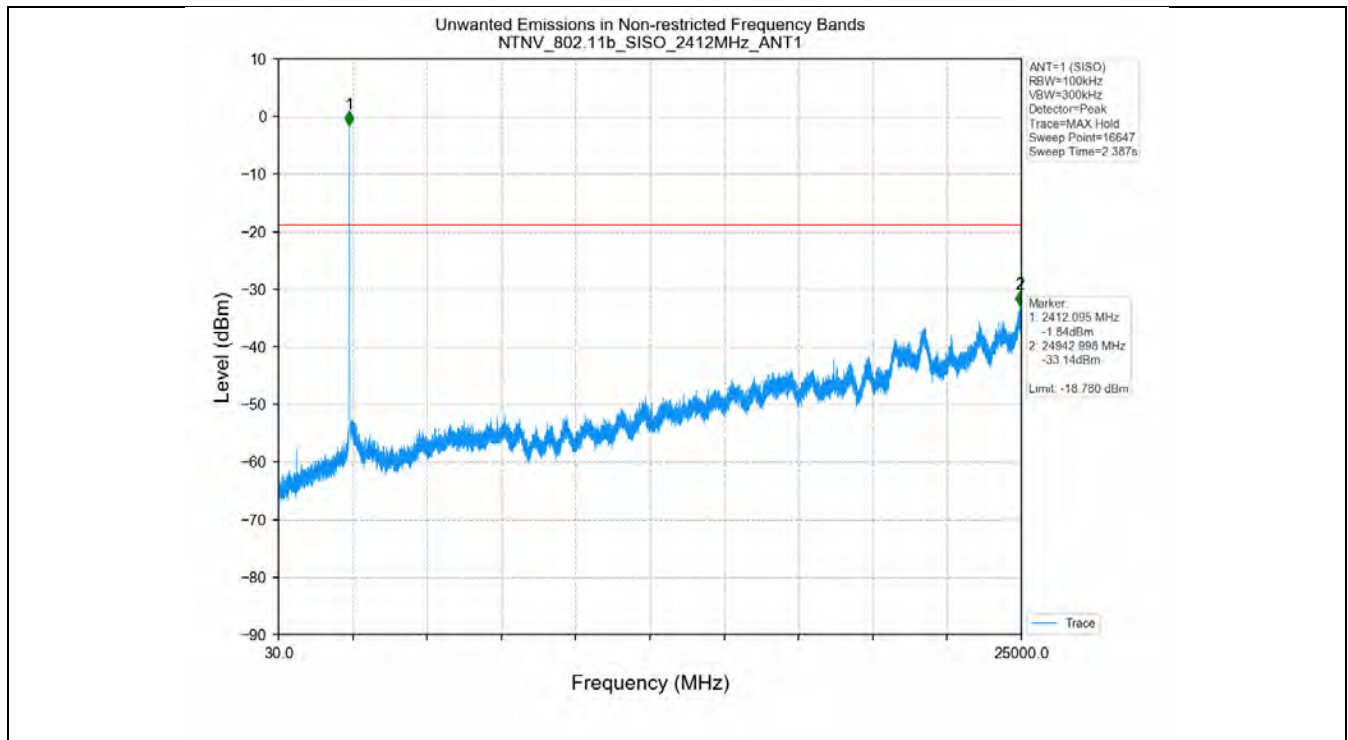
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-18.78	PASS
			2	Refer to test graph	-18.78	PASS
	2437	SISO	1	Refer to test graph	-18.78	PASS
			2	Refer to test graph	-18.78	PASS
	2462	SISO	1	Refer to test graph	-18.78	PASS
			2	Refer to test graph	-18.78	PASS
802.11g	2412	SISO	1	Refer to test graph	-17.67	PASS
			2	Refer to test graph	-17.67	PASS
	2437	SISO	1	Refer to test graph	-17.67	PASS
			2	Refer to test graph	-17.67	PASS
	2462	SISO	1	Refer to test graph	-17.67	PASS
			2	Refer to test graph	-17.67	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-18.61	PASS
			2	Refer to test graph	-18.61	PASS
	2437	MIMO	1	Refer to test graph	-18.61	PASS
			2	Refer to test graph	-18.61	PASS
	2462	MIMO	1	Refer to test graph	-18.61	PASS
			2	Refer to test graph	-18.61	PASS
802.11n(HT40)	2422	MIMO	1	Refer to test graph	-20.05	PASS
			2	Refer to test graph	-20.05	PASS
	2437	MIMO	1	Refer to test graph	-20.05	PASS
			2	Refer to test graph	-20.05	PASS
	2452	MIMO	1	Refer to test graph	-20.05	PASS
			2	Refer to test graph	-20.05	PASS

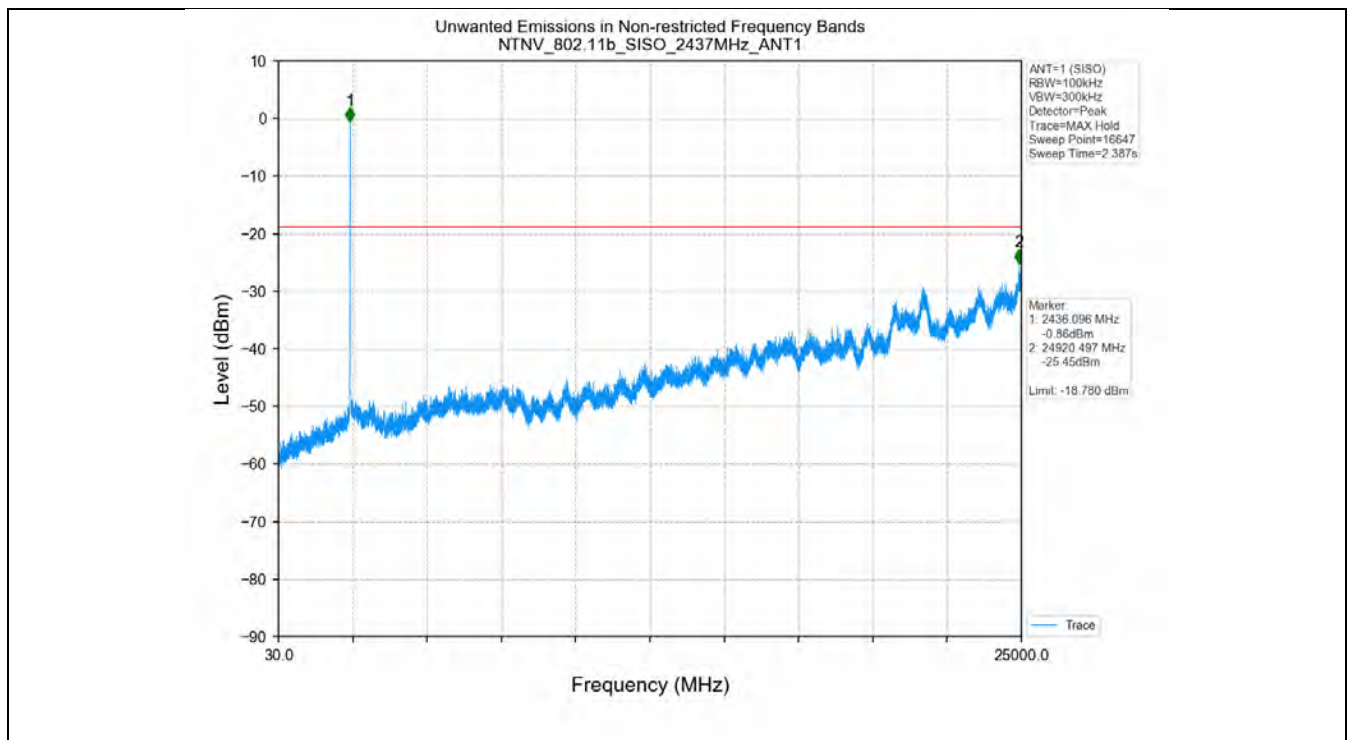
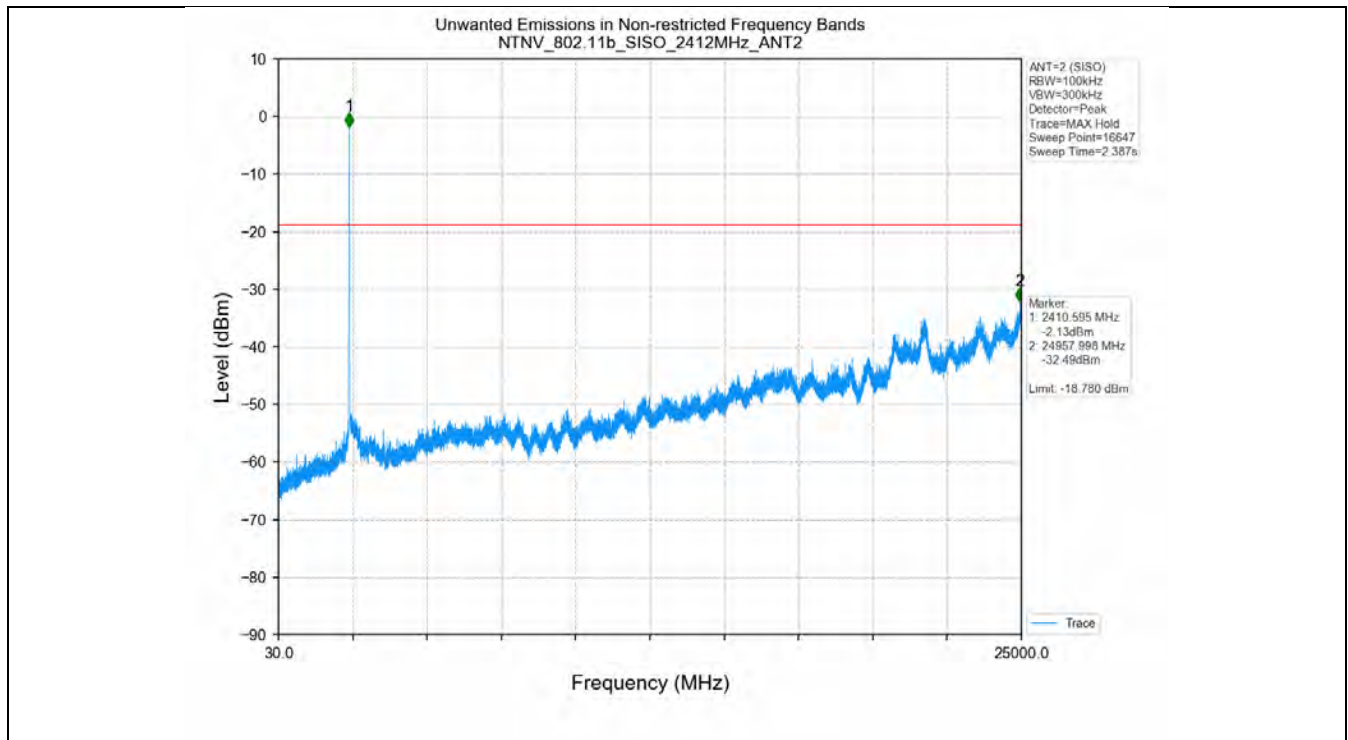
5.2 Test Graph



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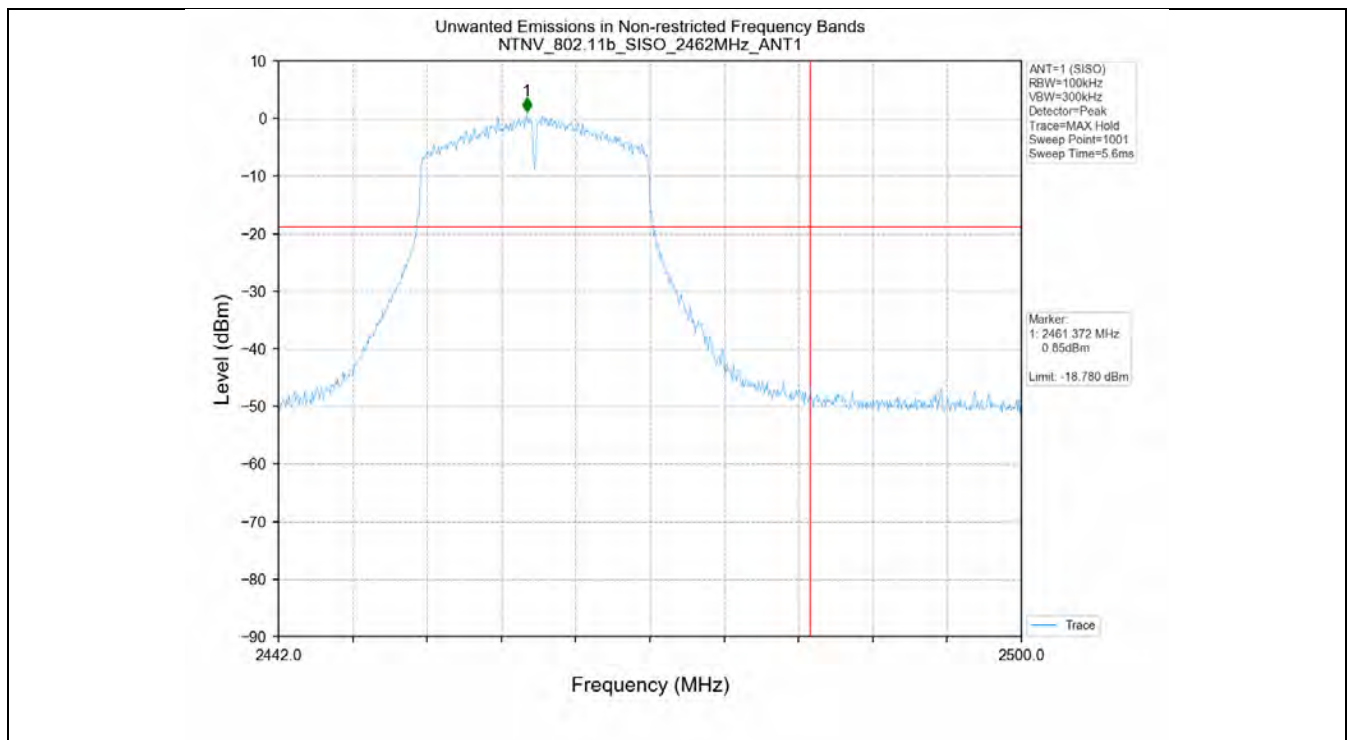
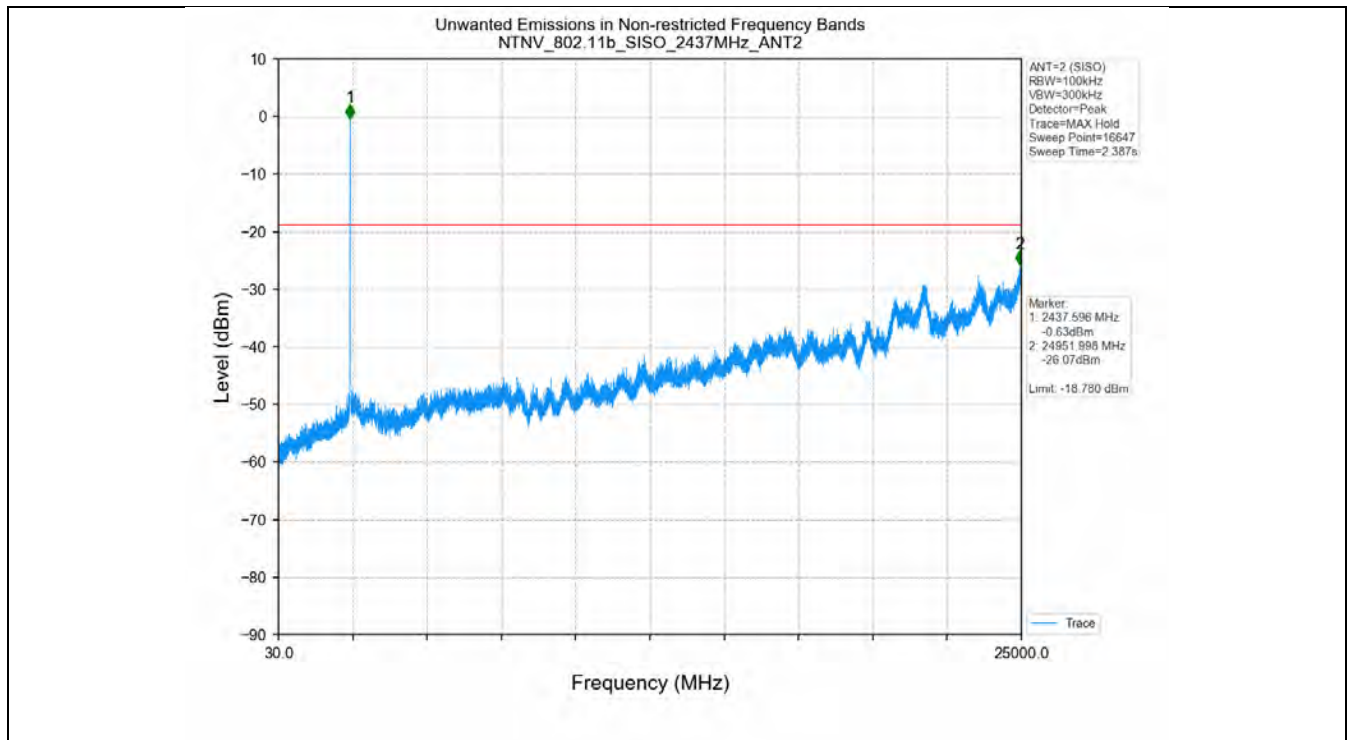






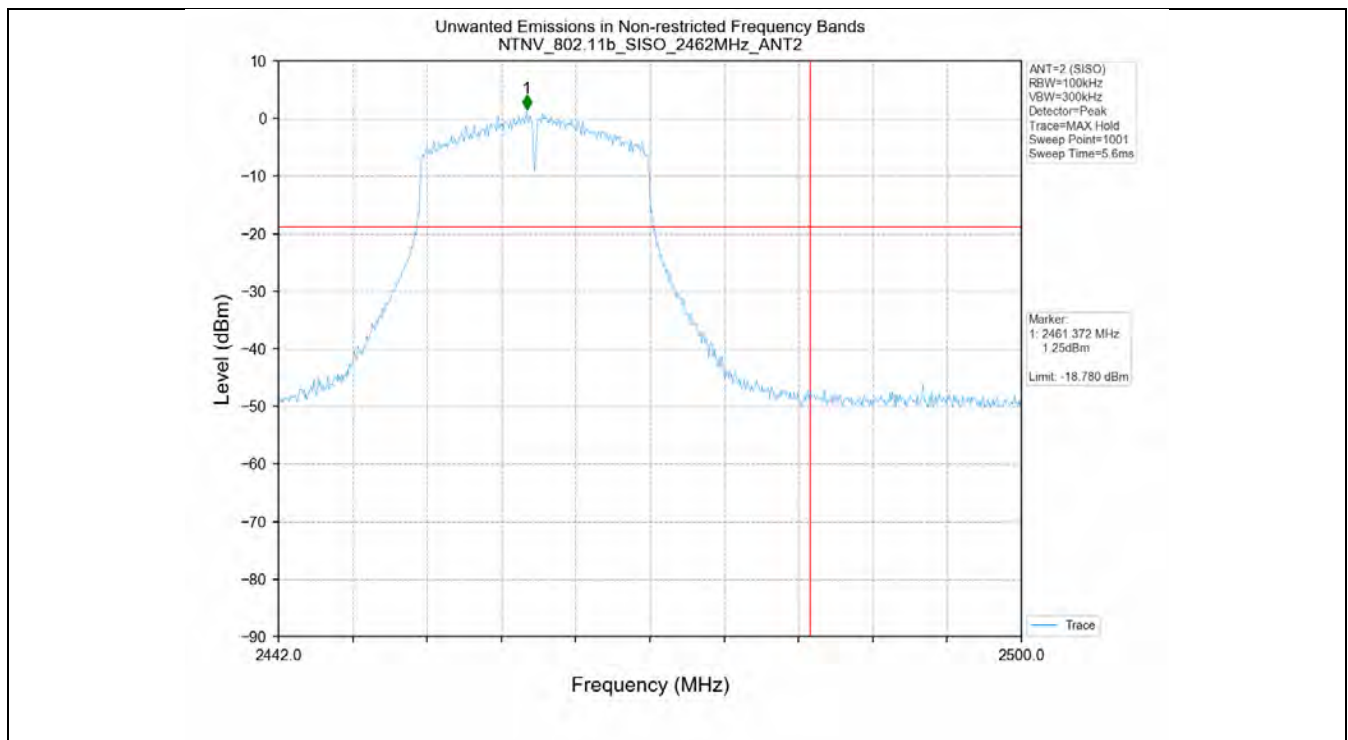
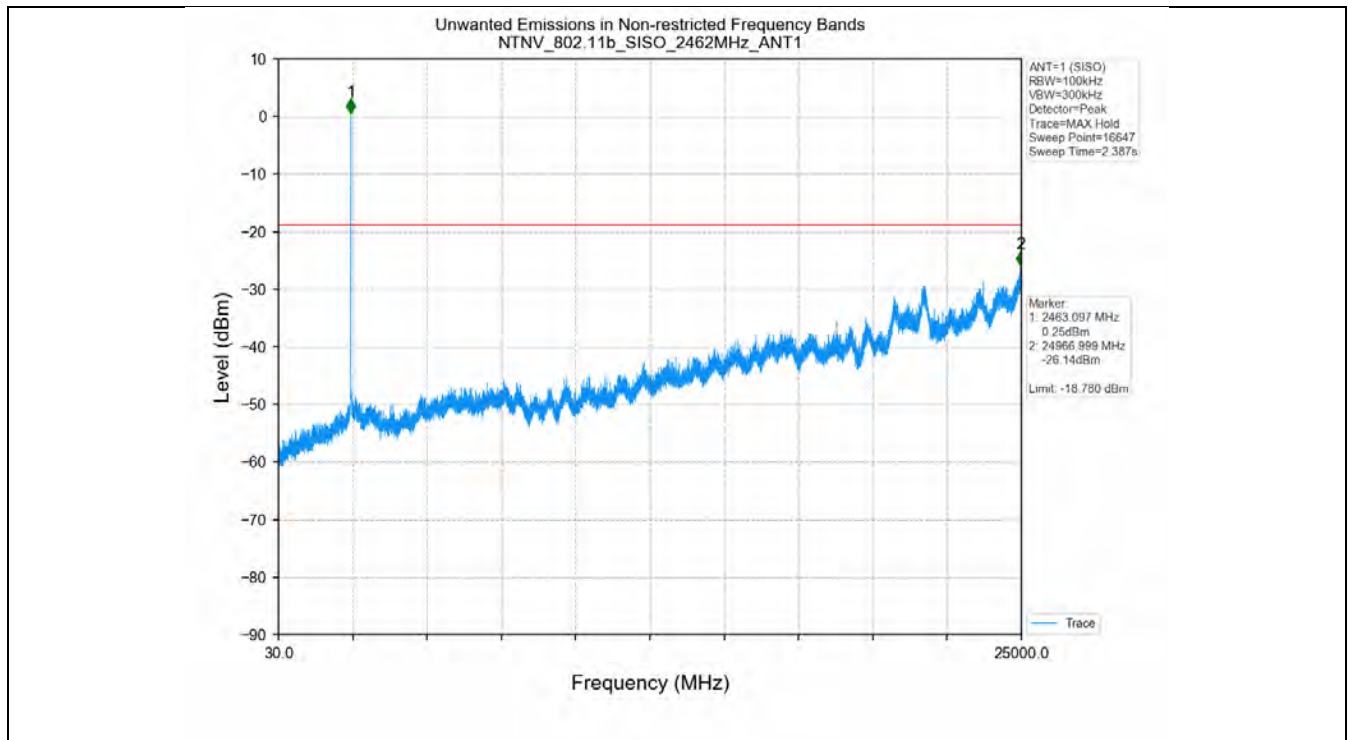


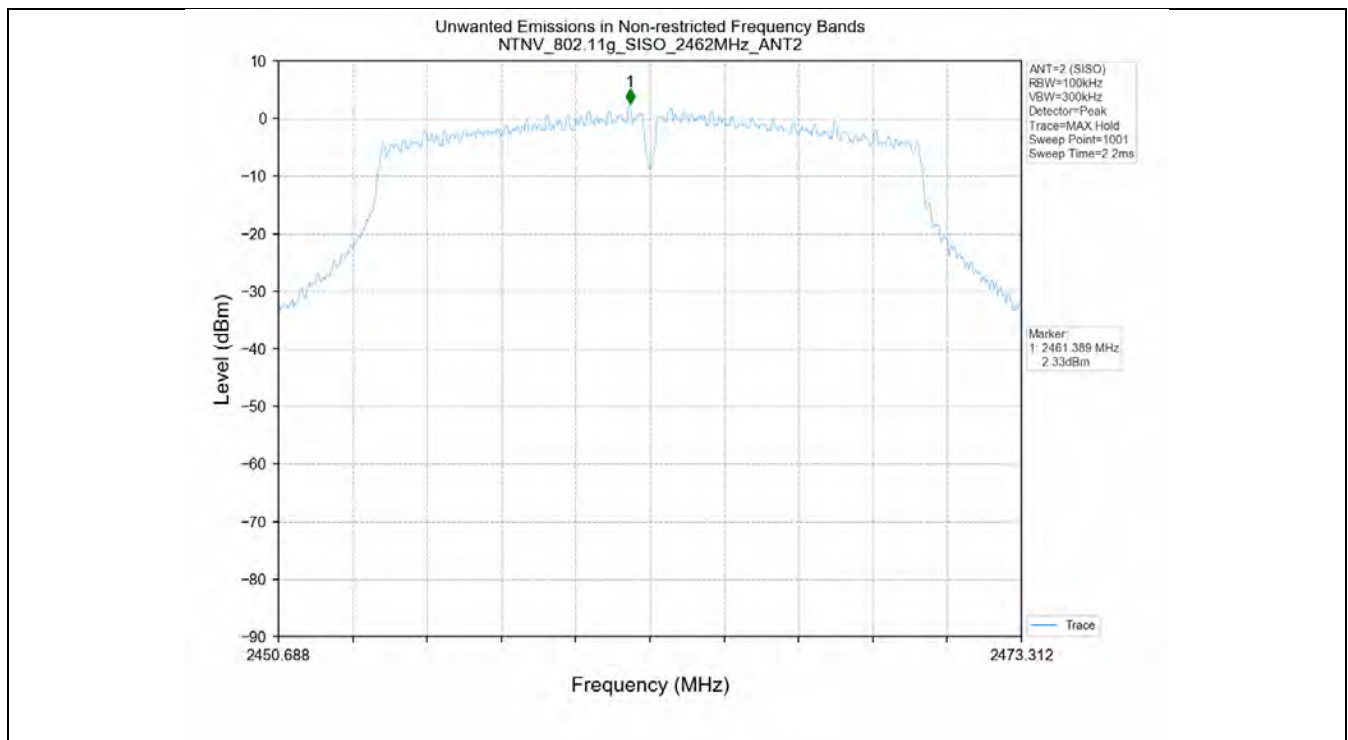
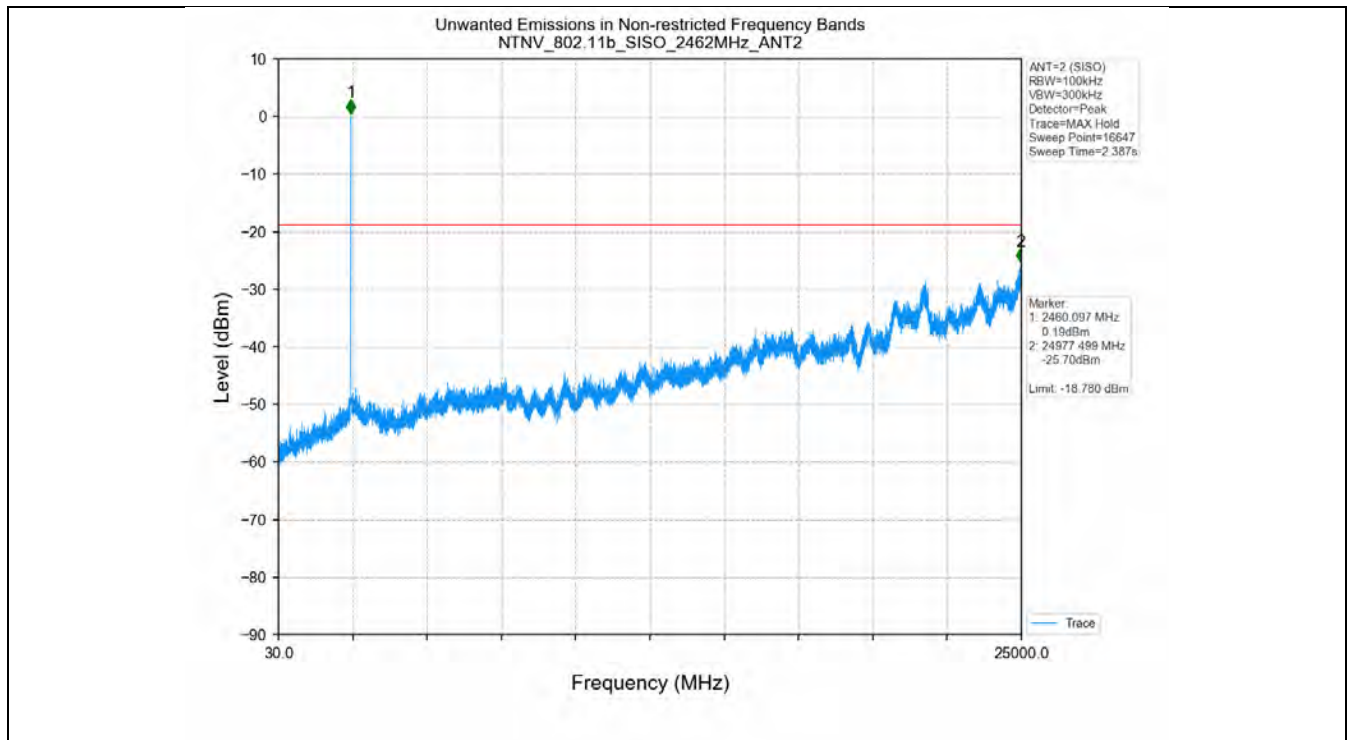
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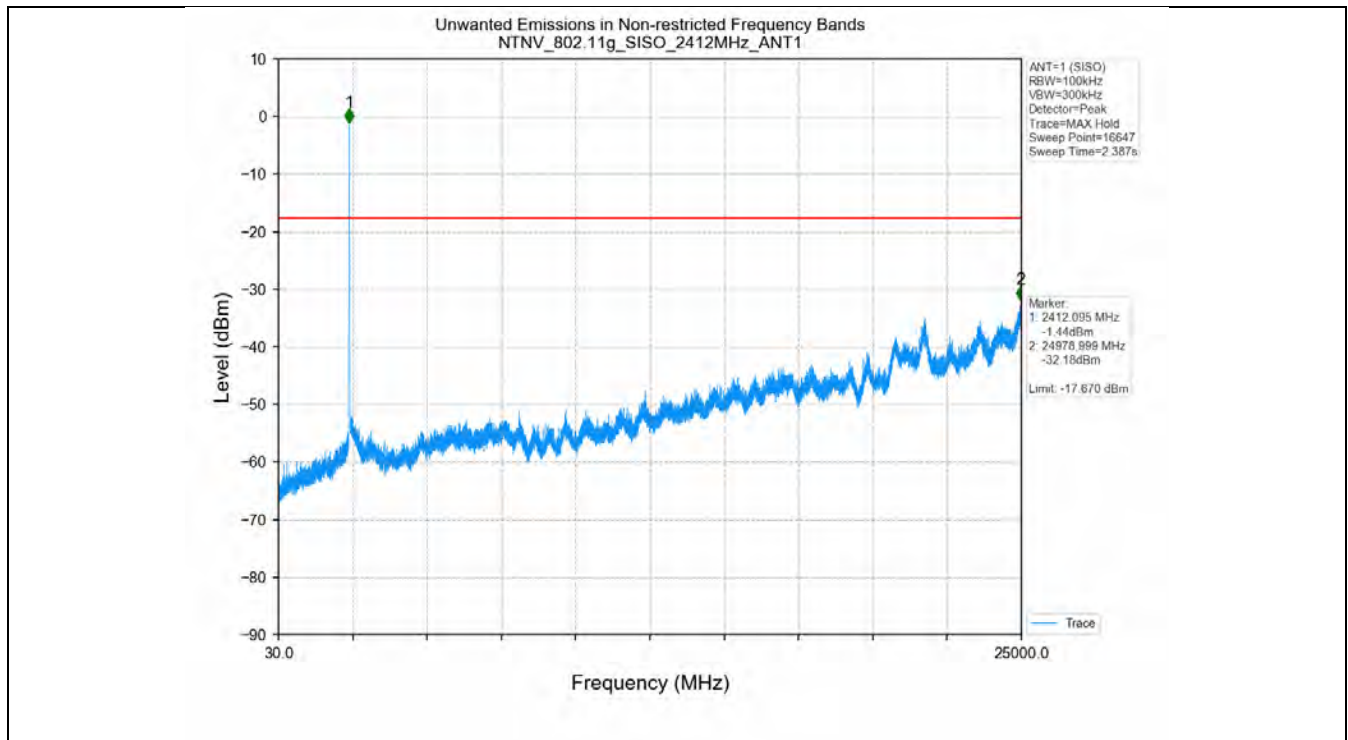
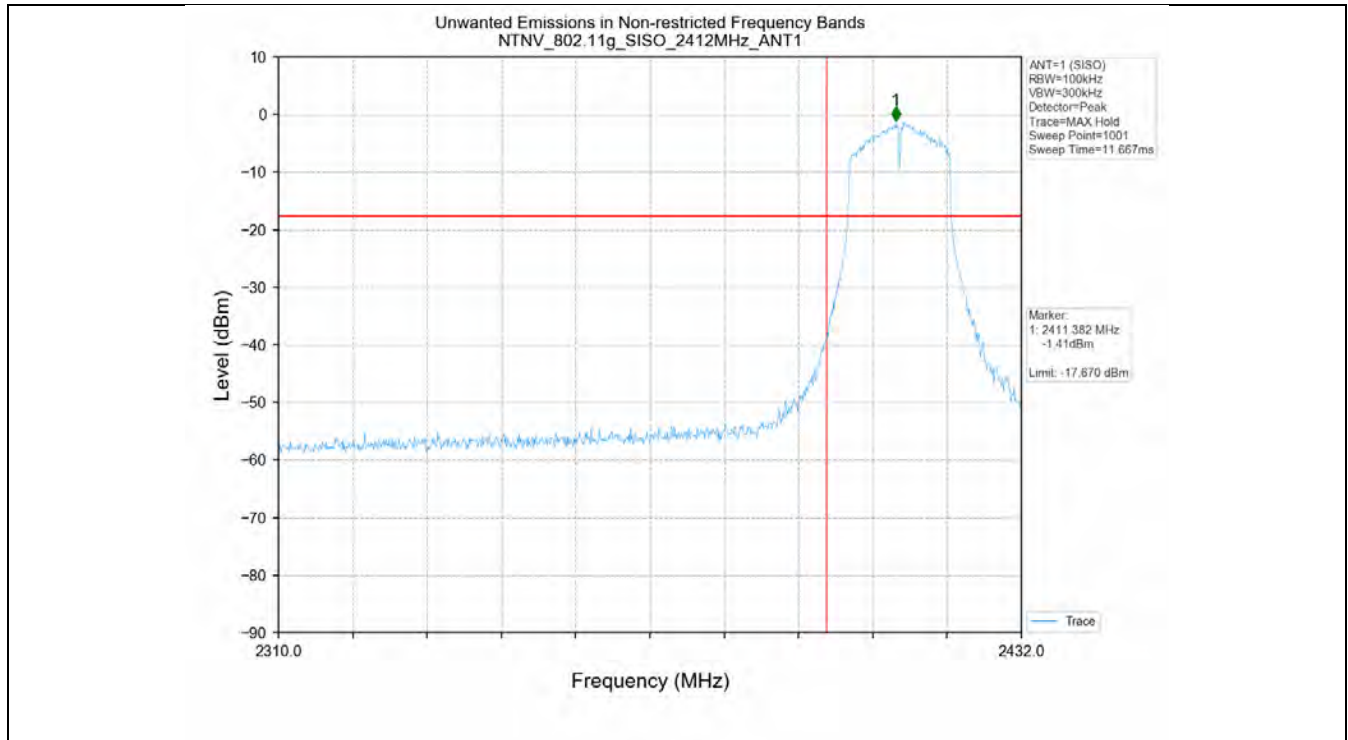




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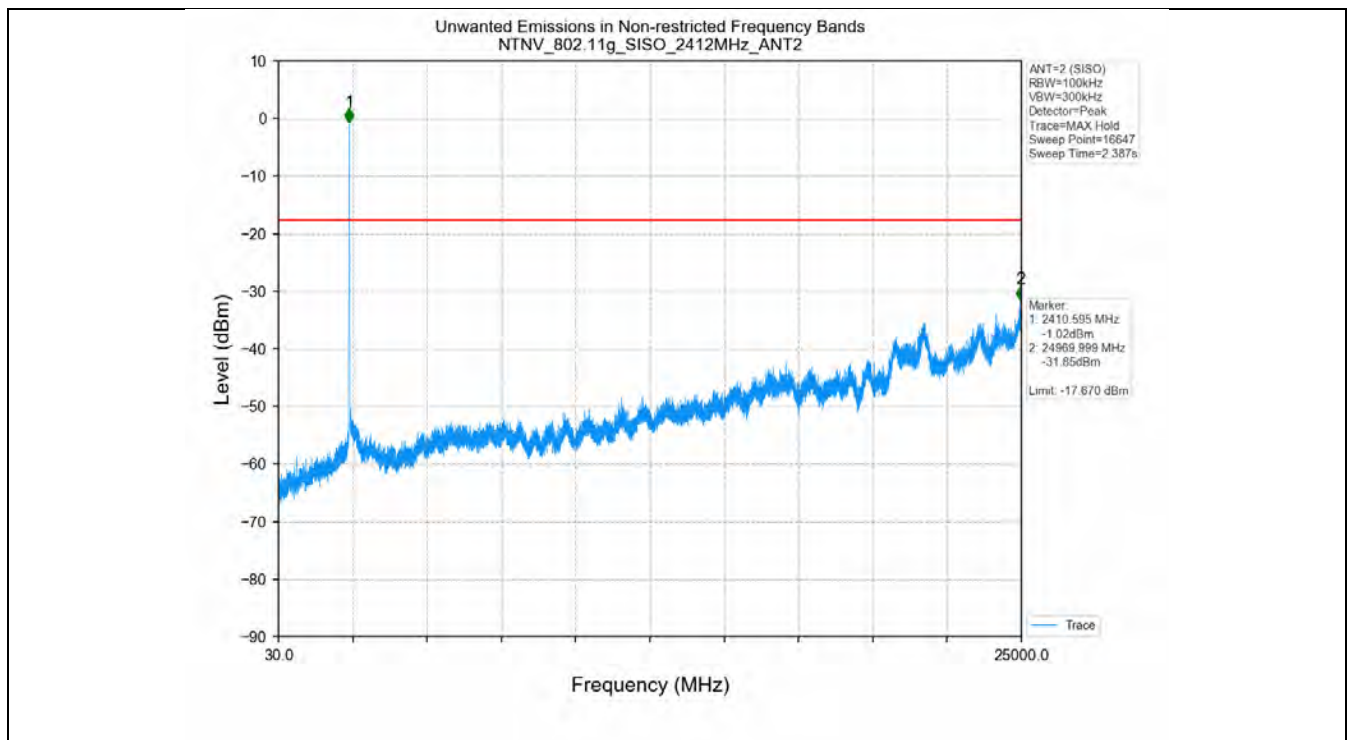
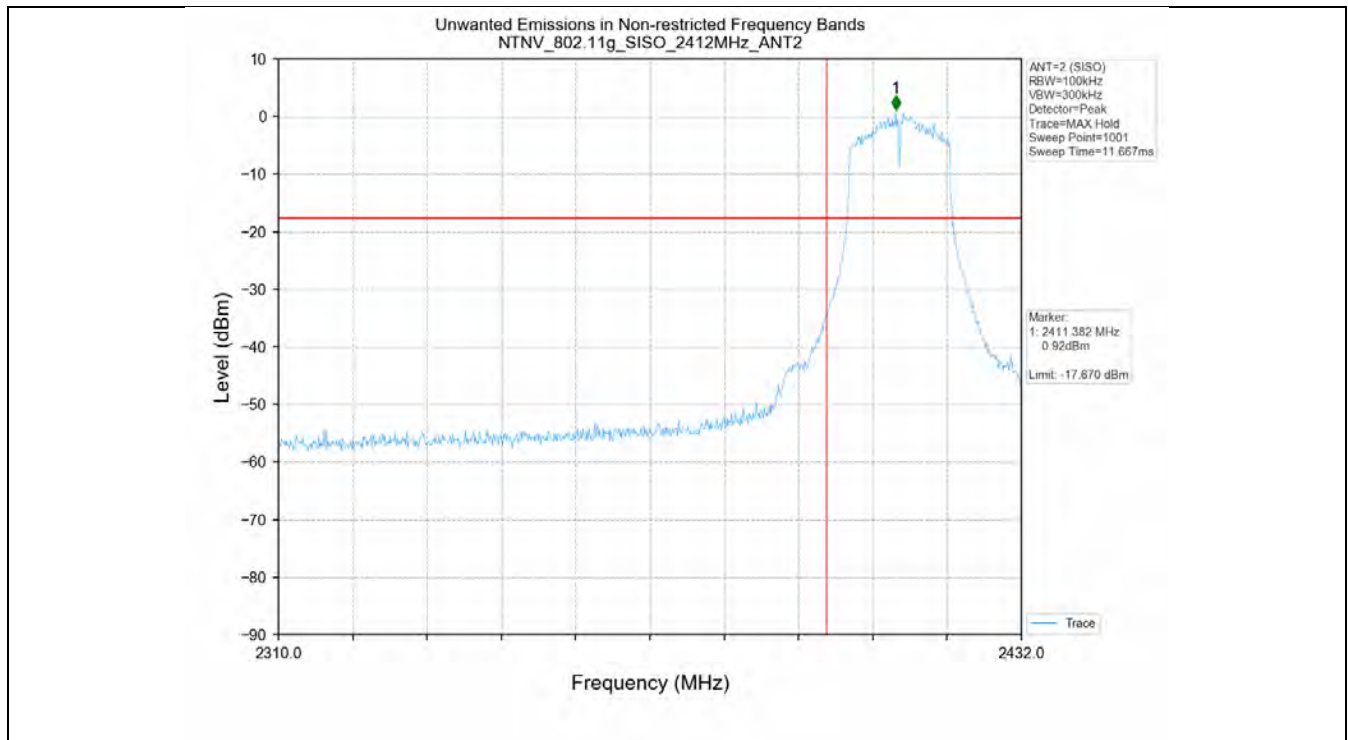


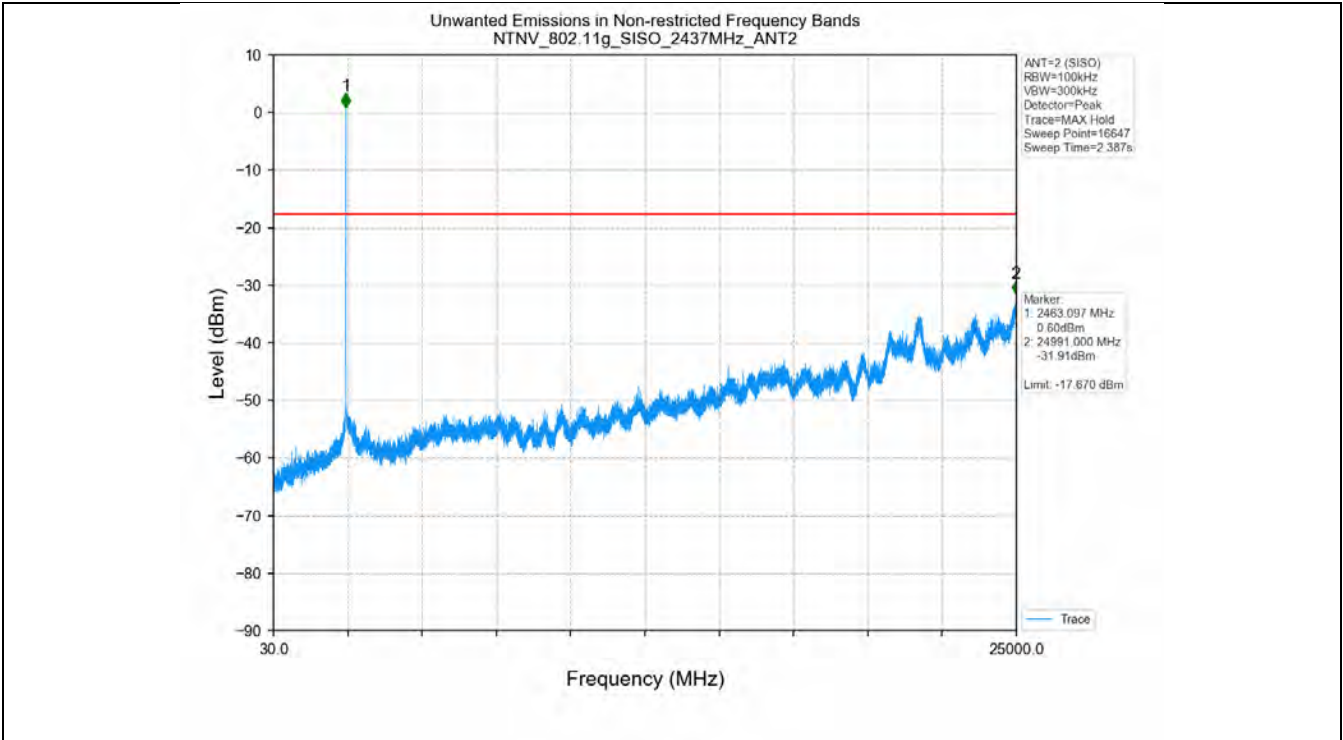
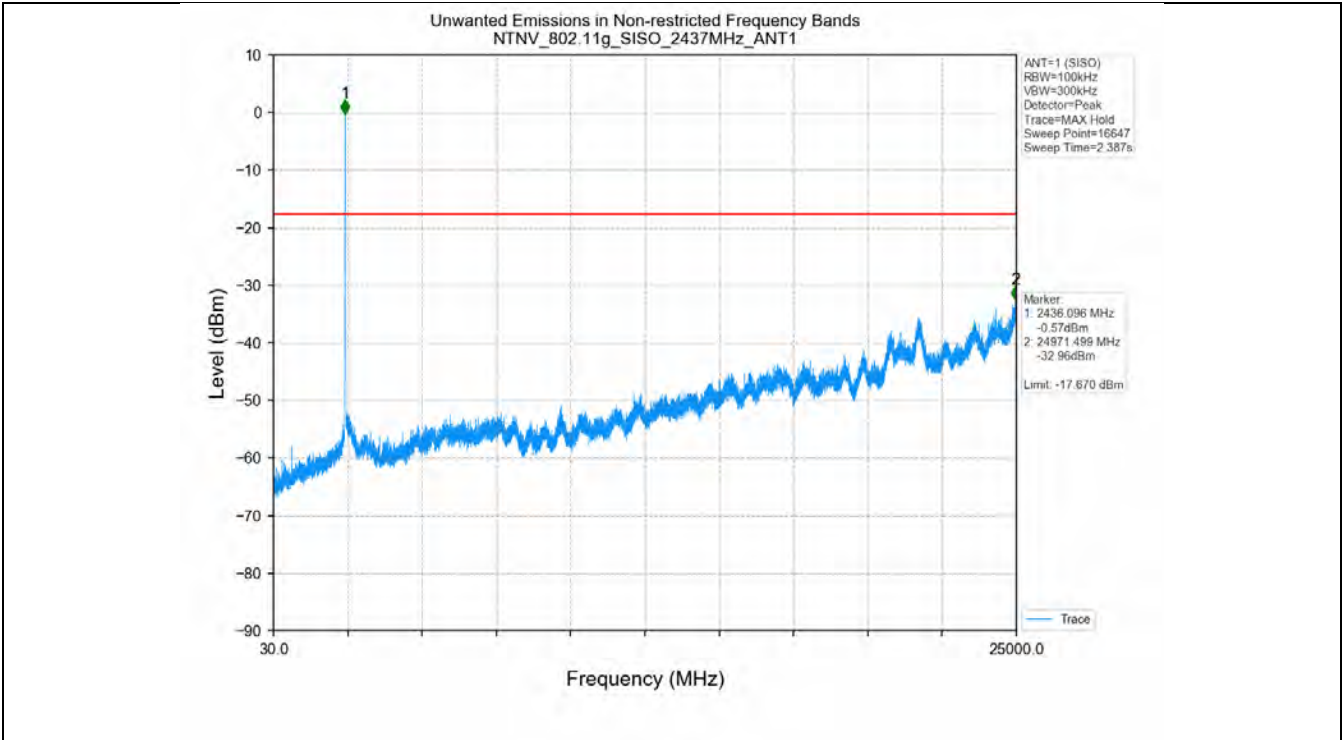


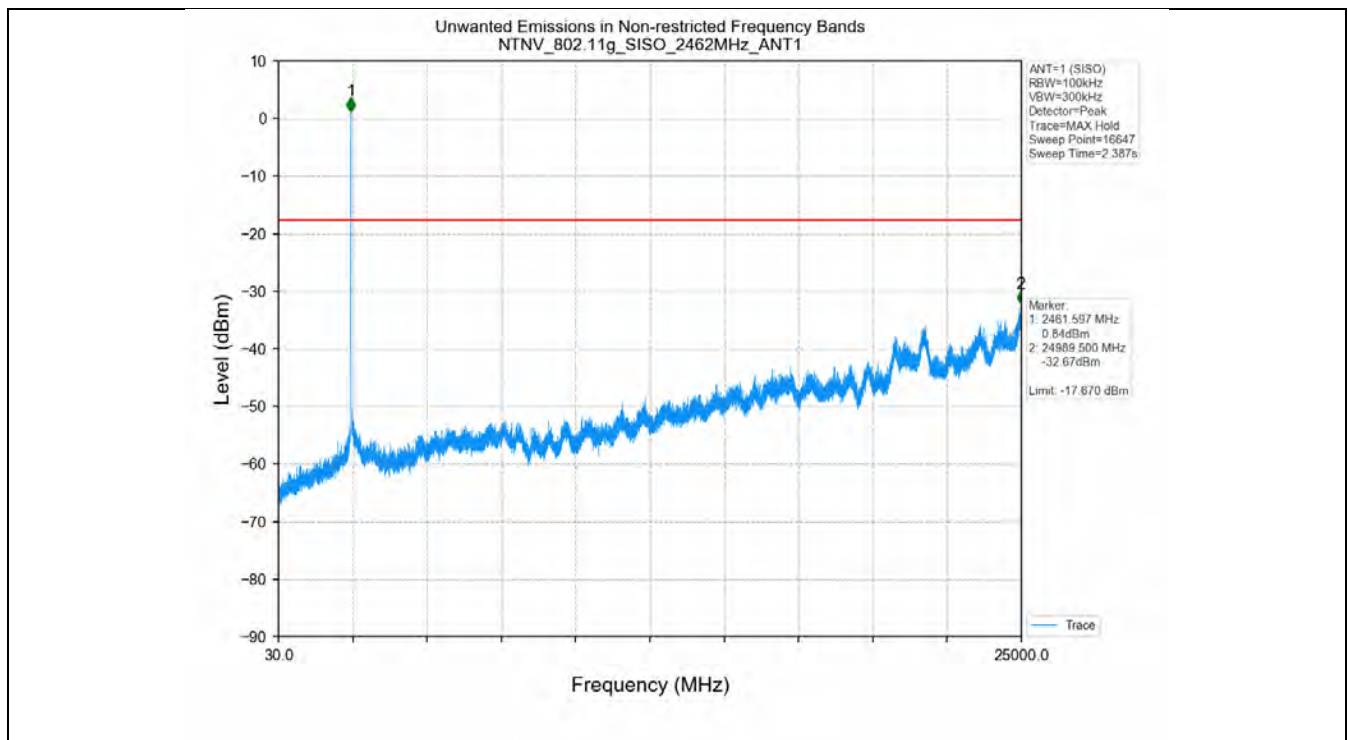
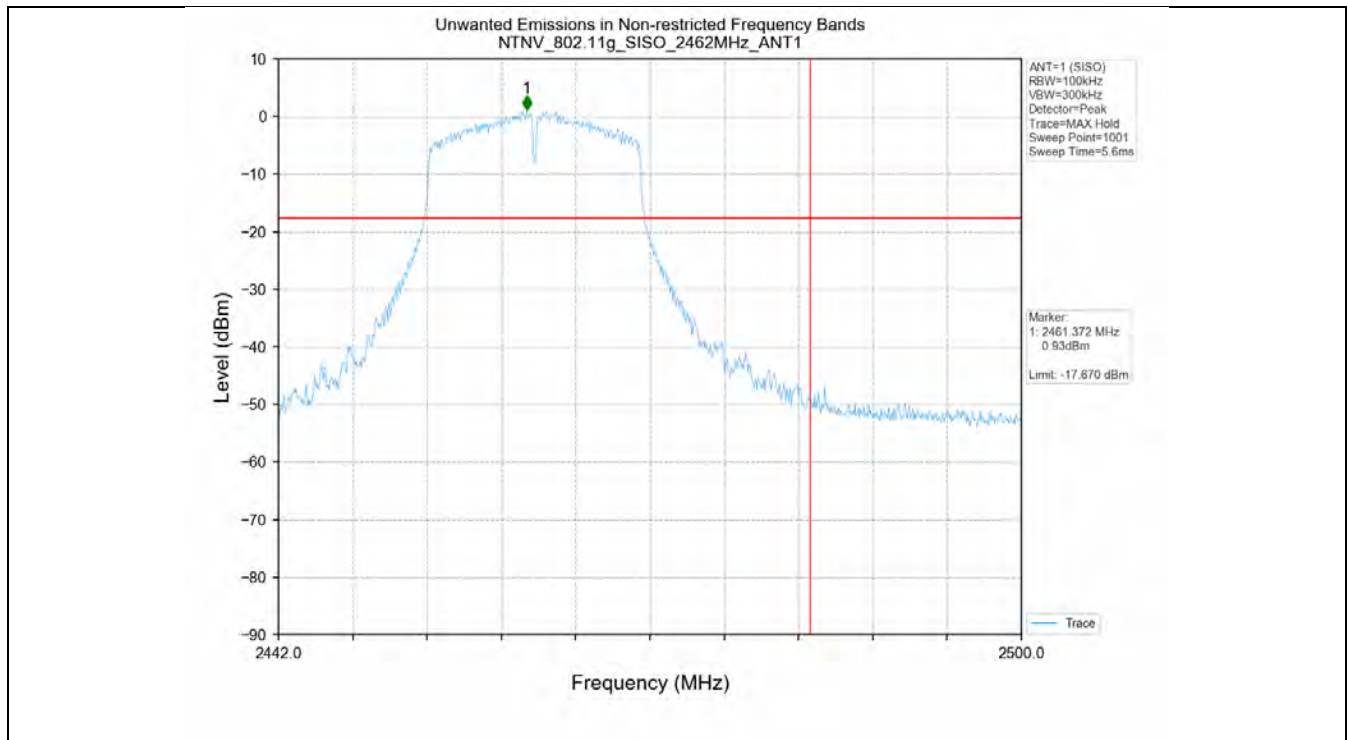


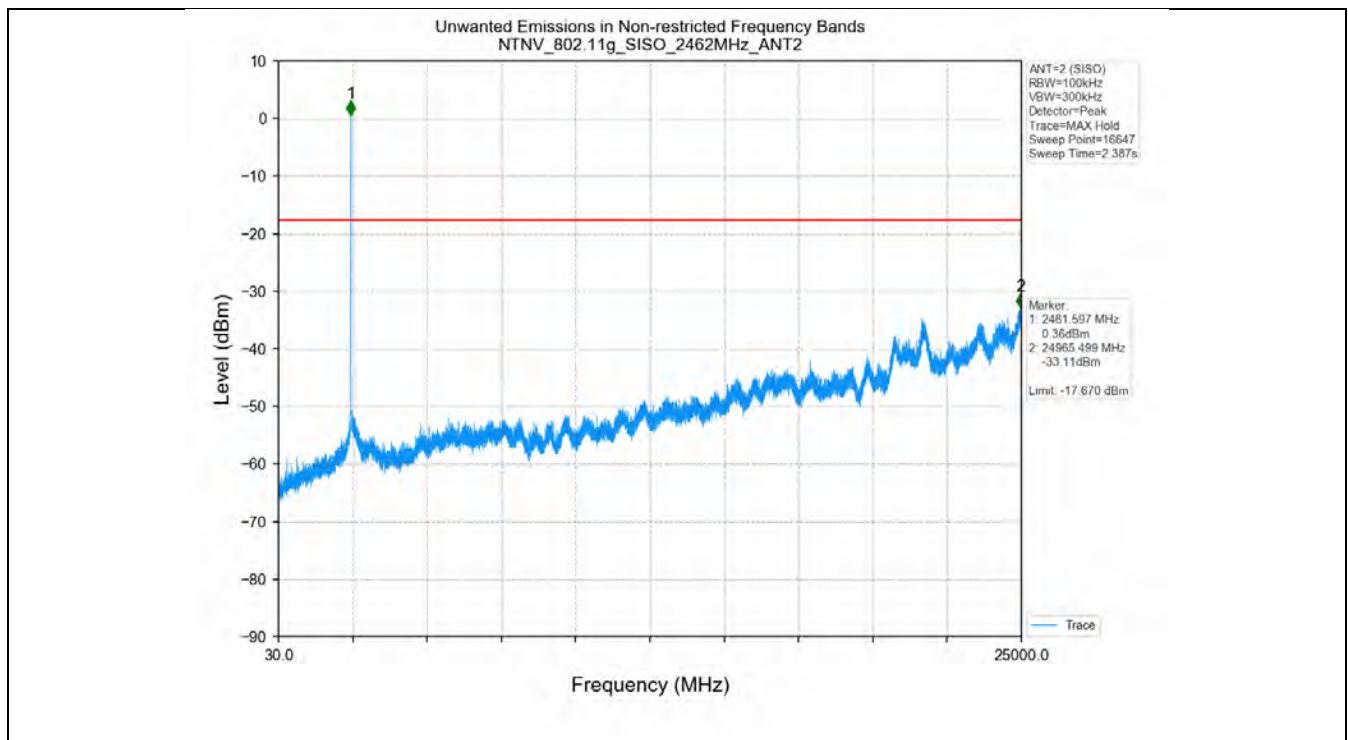
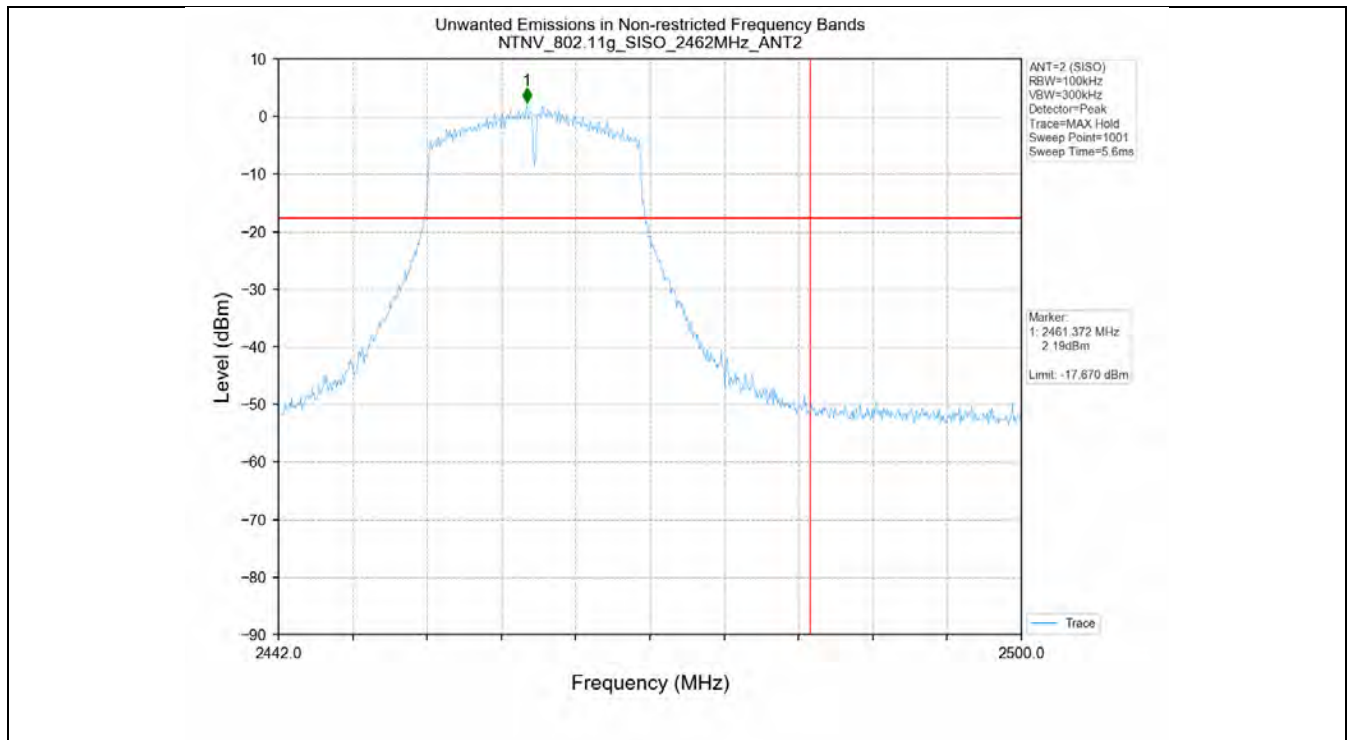


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