



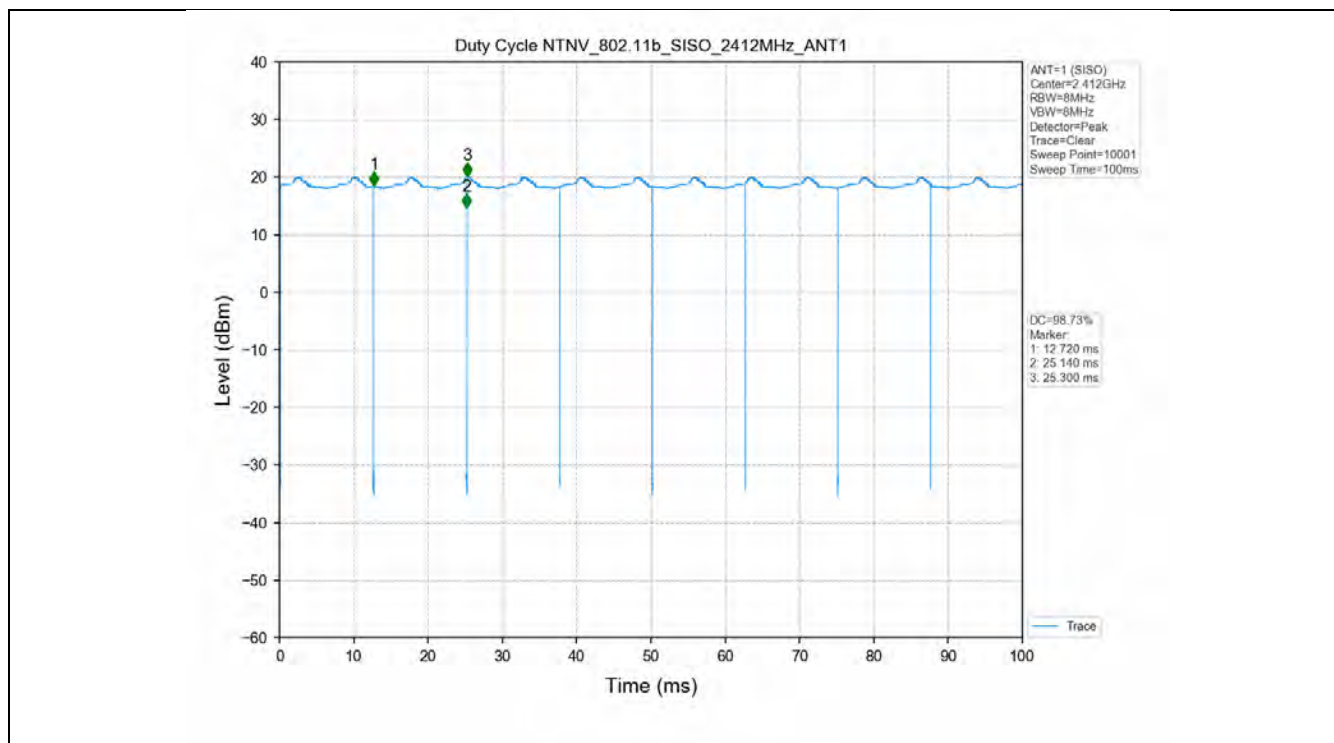
Appendix A for SHEM200600465601

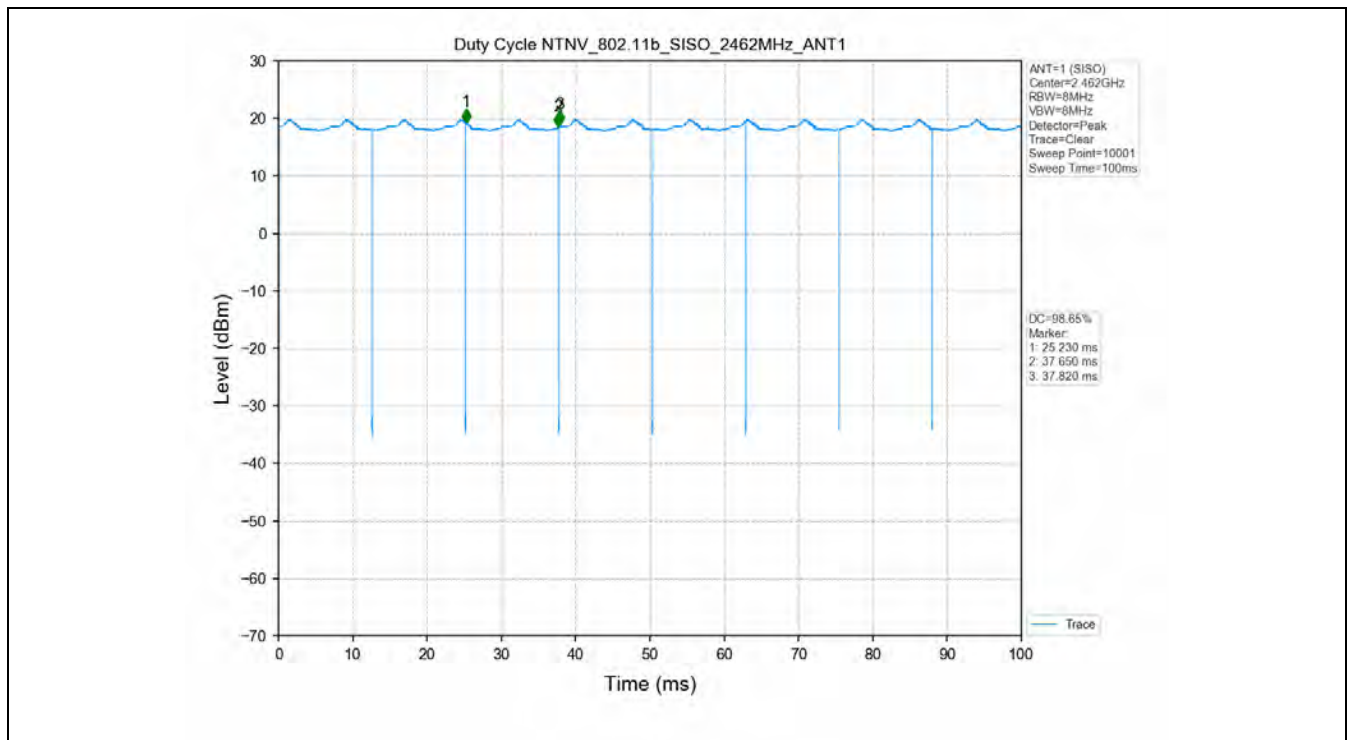
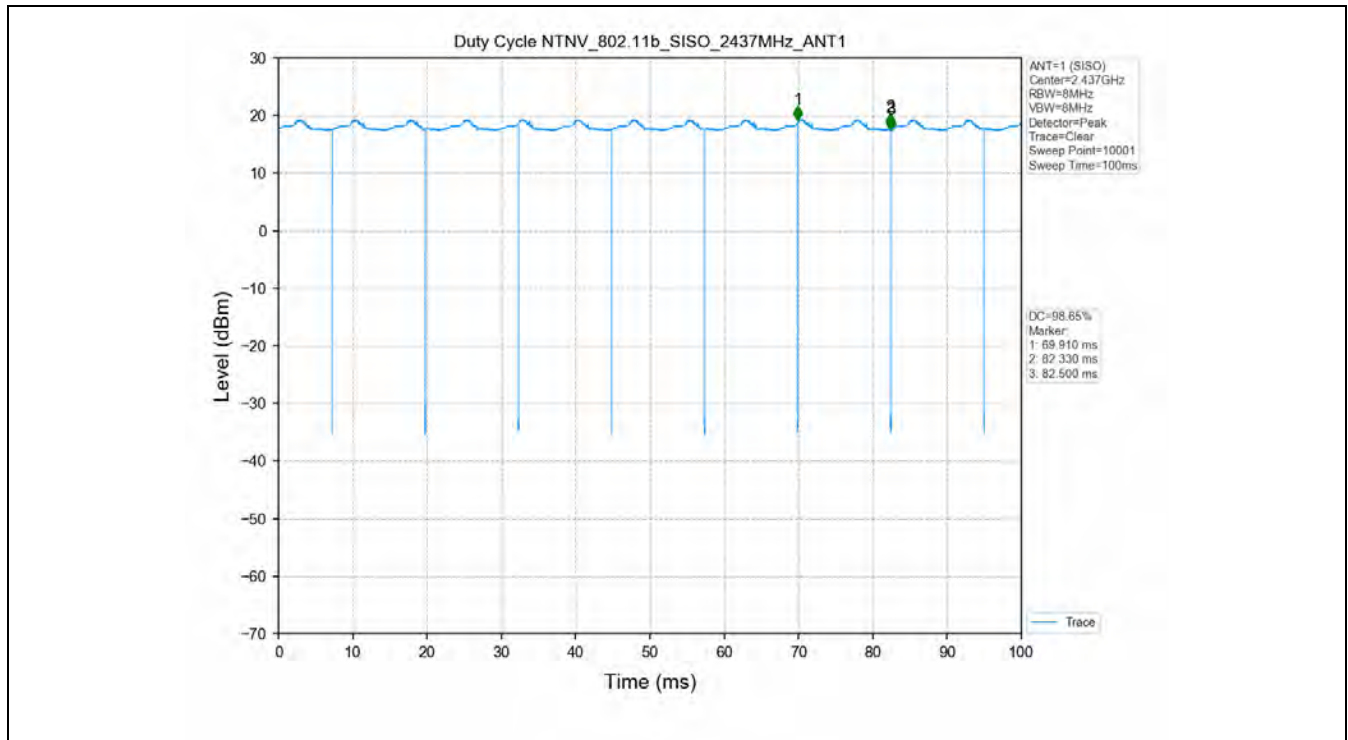
1. Duty Cycle

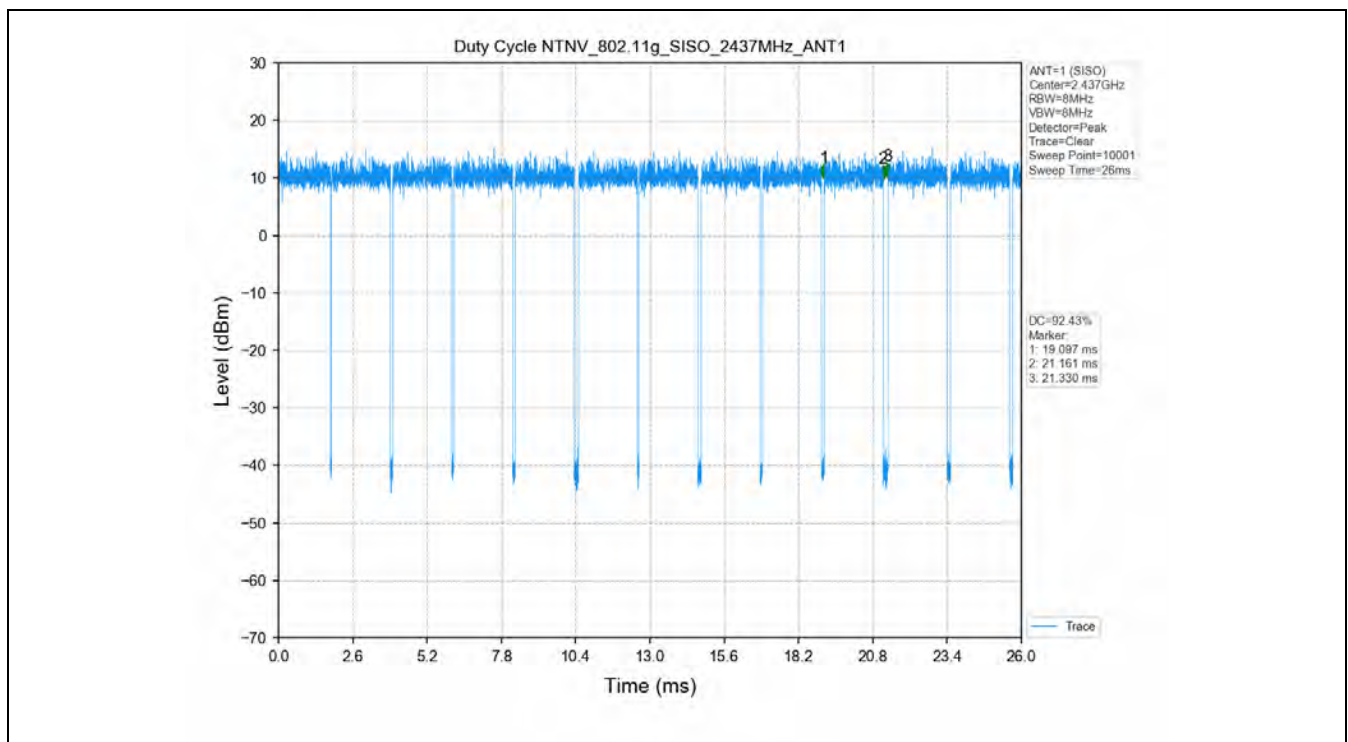
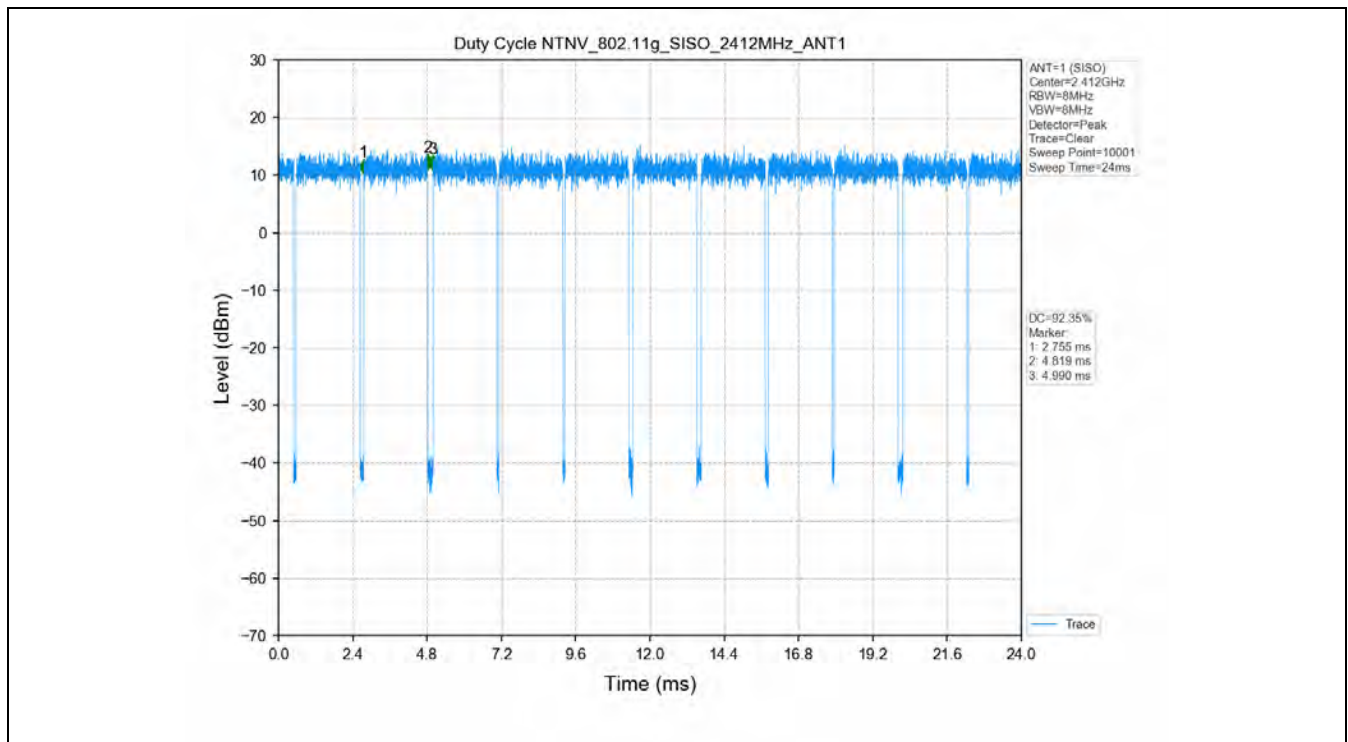
1.1 Test Result

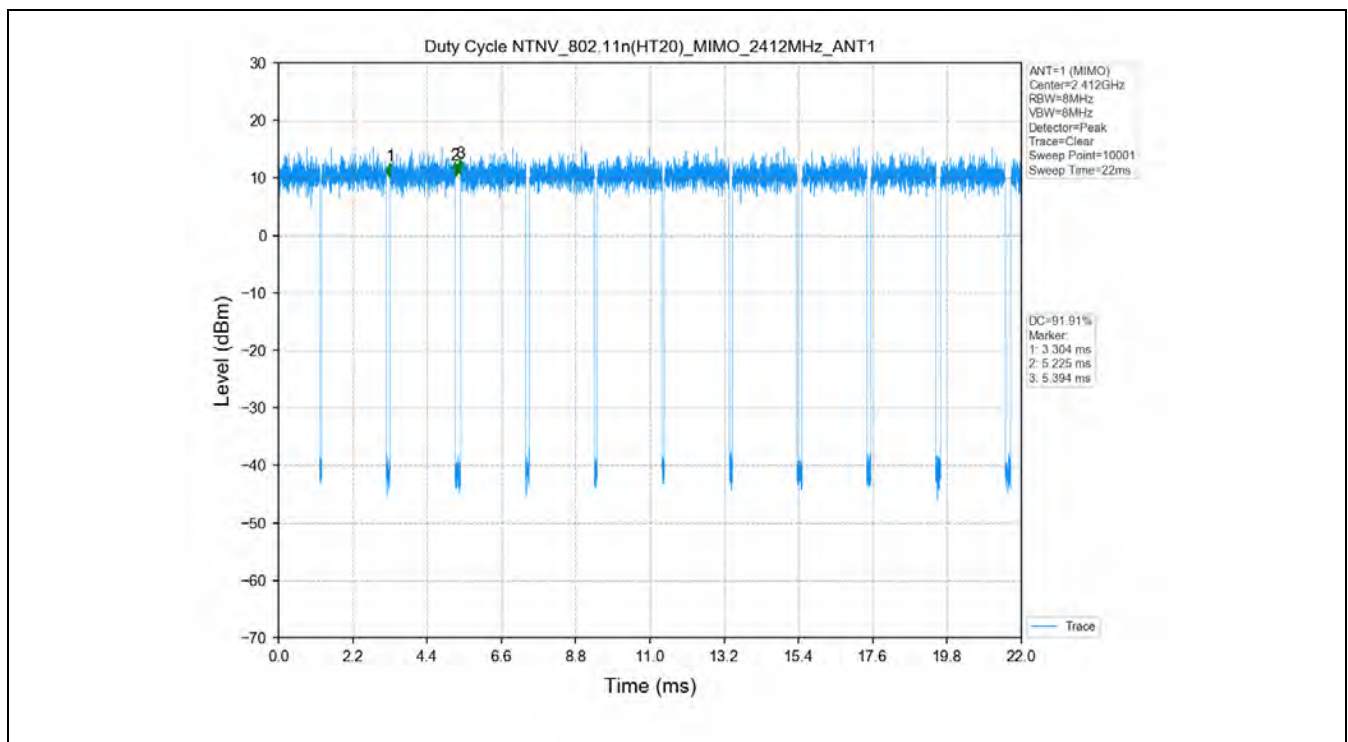
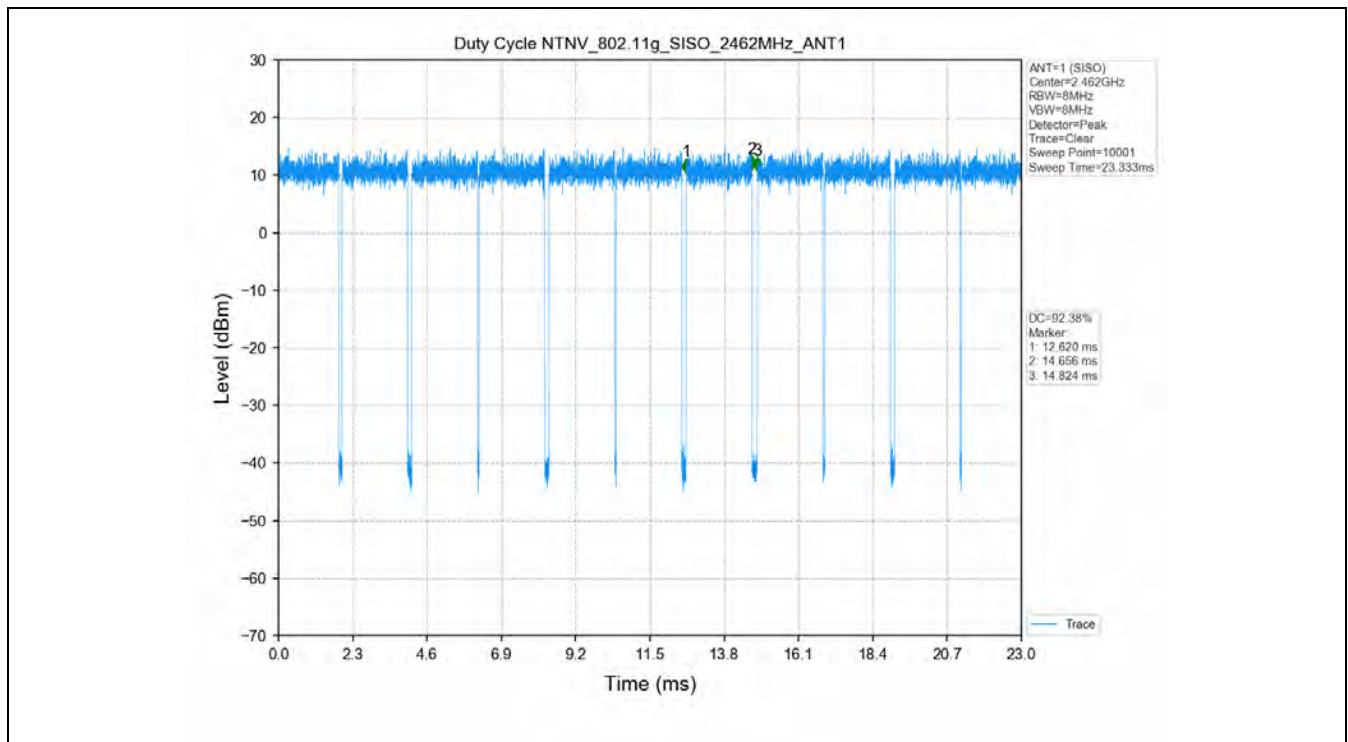
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.420	12.580	98.73	0.06
	2437	SISO	1	12.420	12.590	98.65	0.06
	2462	SISO	1	12.420	12.590	98.65	0.06
802.11g	2412	SISO	1	2.064	2.235	92.35	0.35
	2437	SISO	1	2.064	2.233	92.43	0.34
	2462	SISO	1	2.036	2.204	92.38	0.34
802.11n(HT20)	2412	MIMO	1	1.921	2.090	91.91	0.37
	2437	MIMO	1	1.890	2.047	92.33	0.35
	2462	MIMO	1	1.918	2.081	92.17	0.35
802.11n(HT40)	2422	MIMO	1	0.916	1.072	85.45	0.68
	2437	MIMO	1	0.916	1.064	86.09	0.65
	2452	MIMO	1	0.917	1.082	84.75	0.72

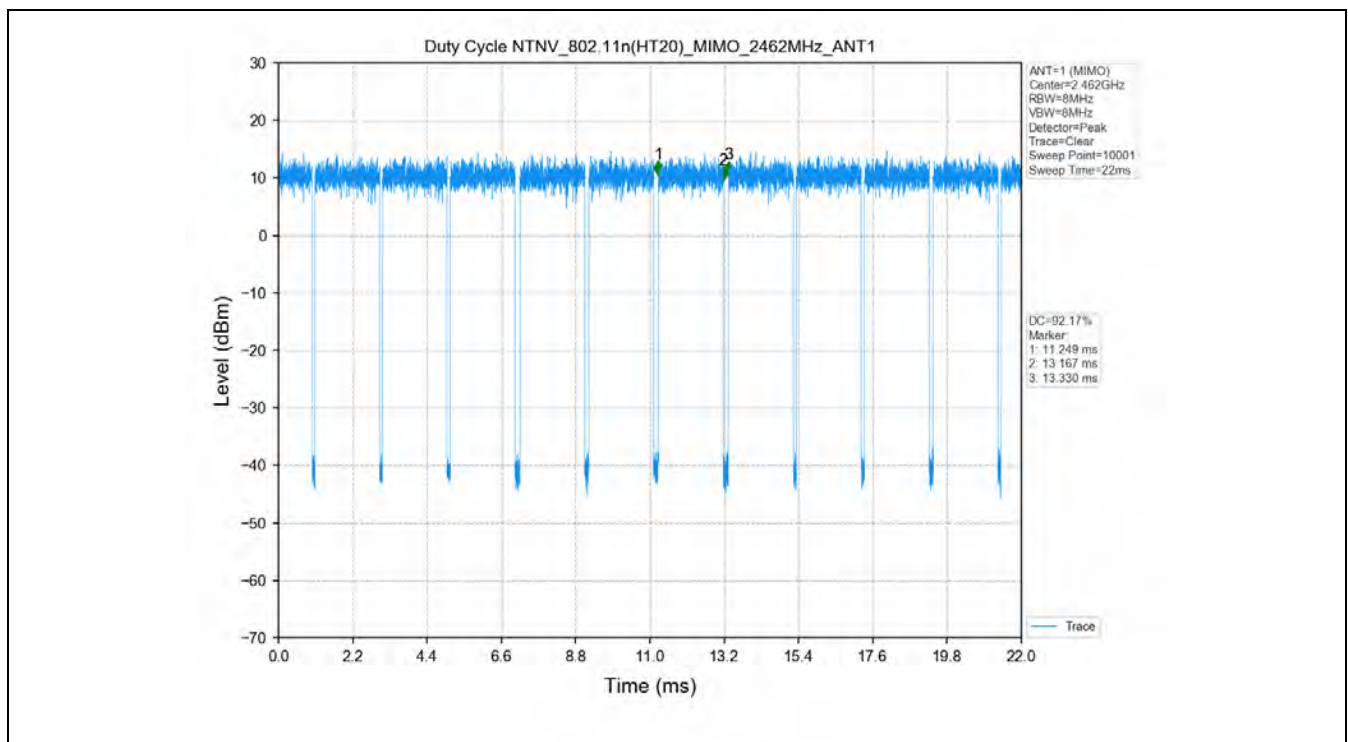
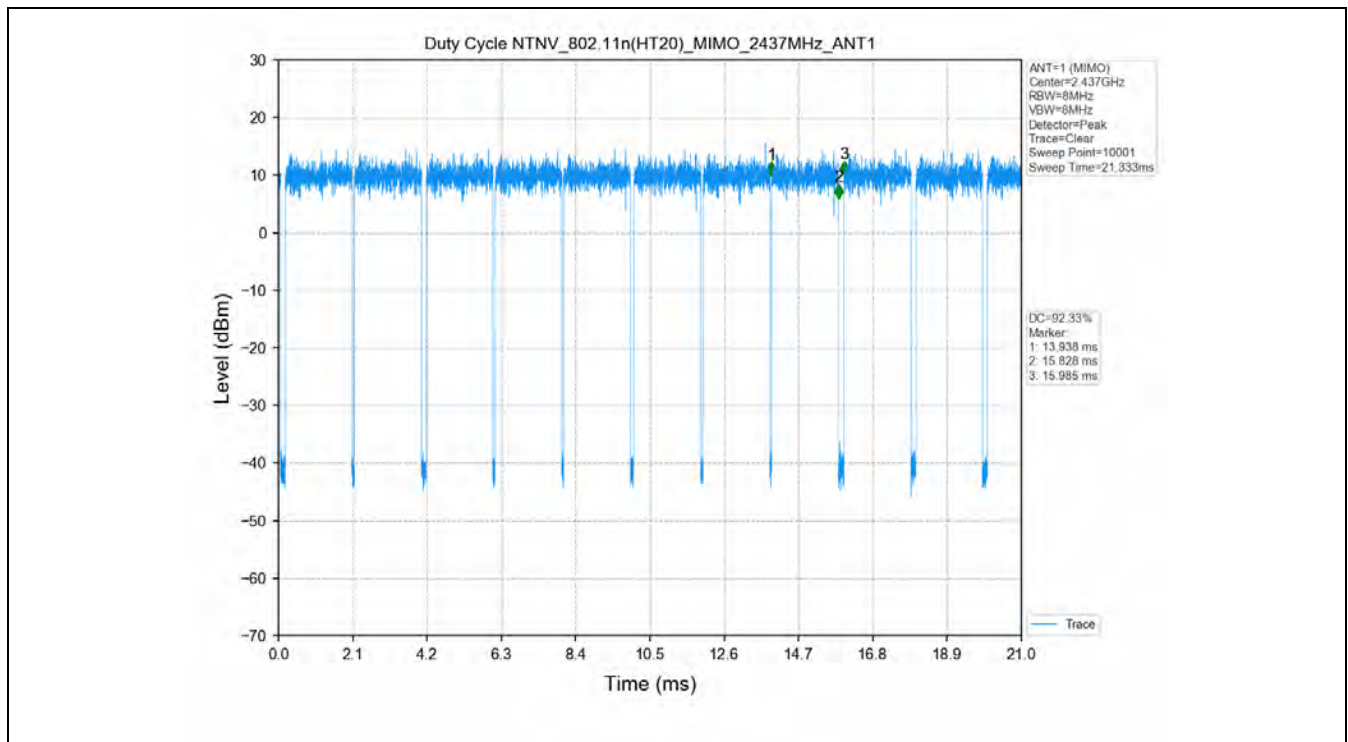
1.2 Test Graph

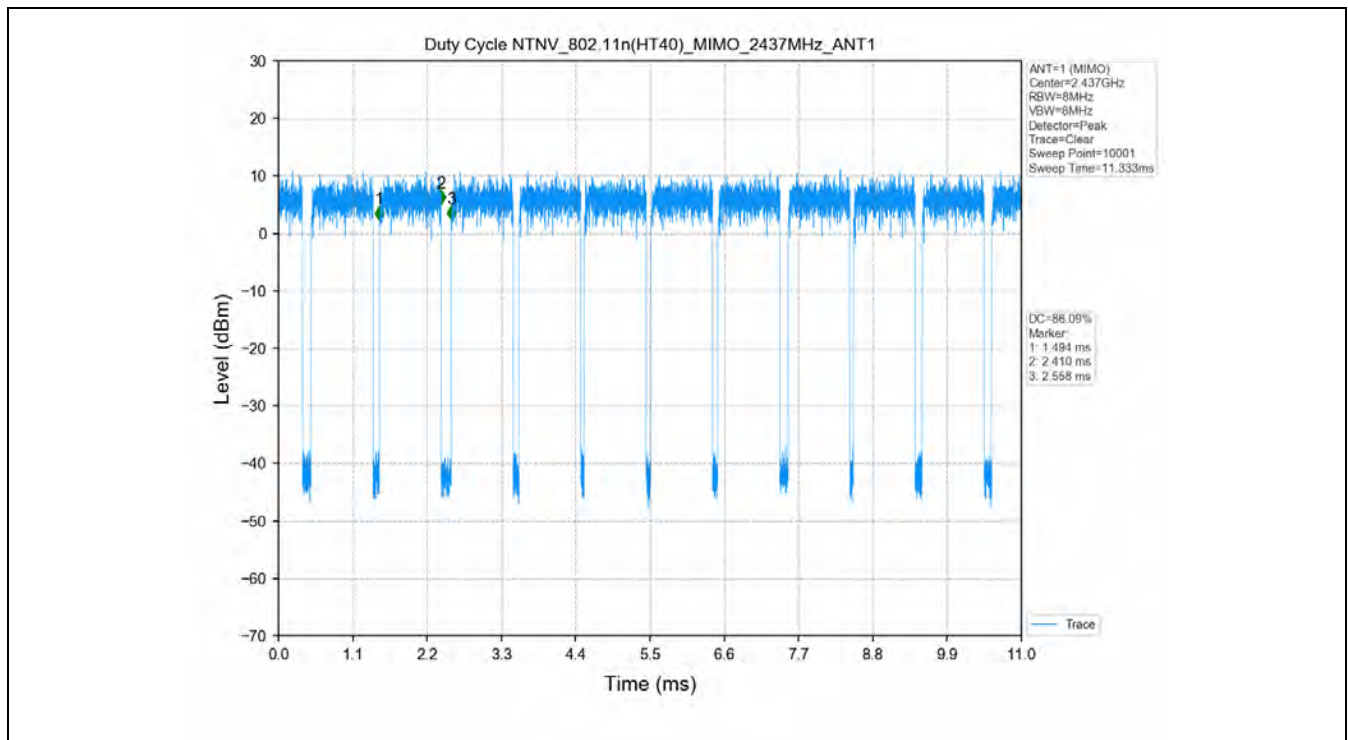
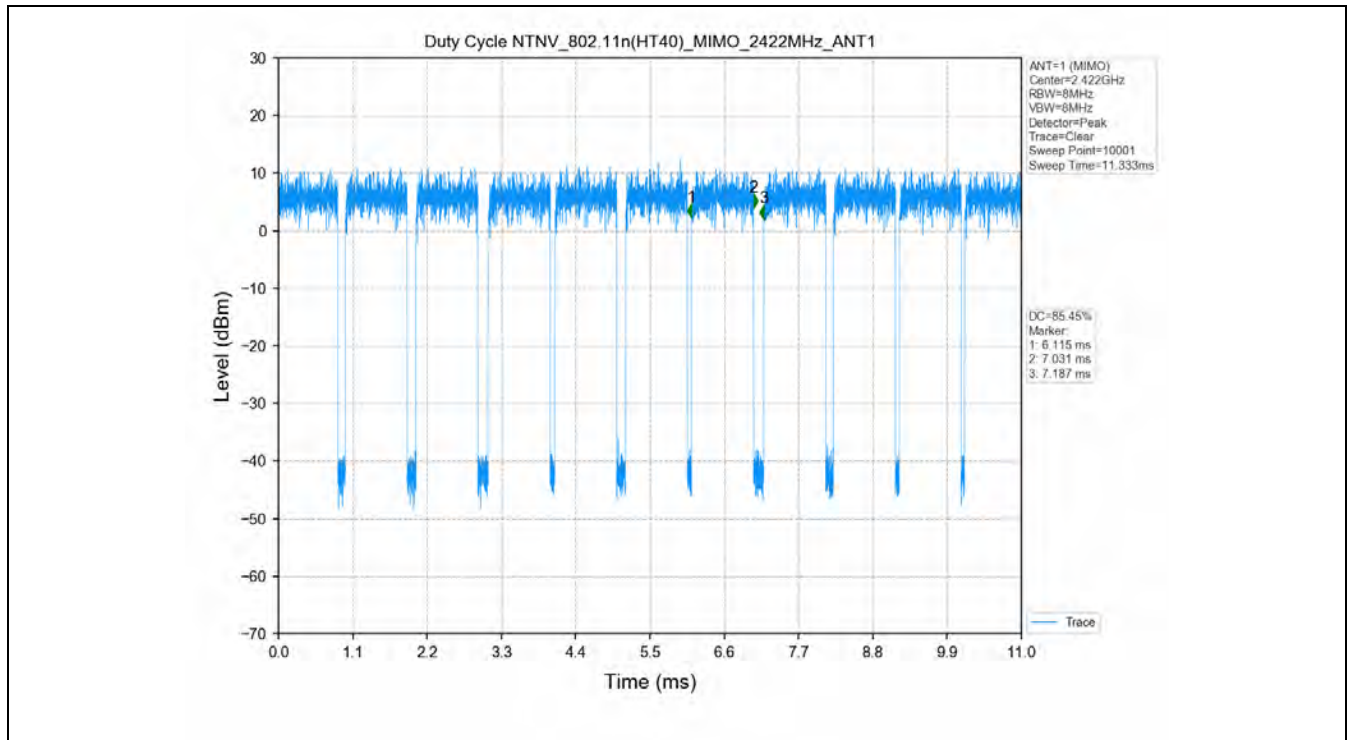


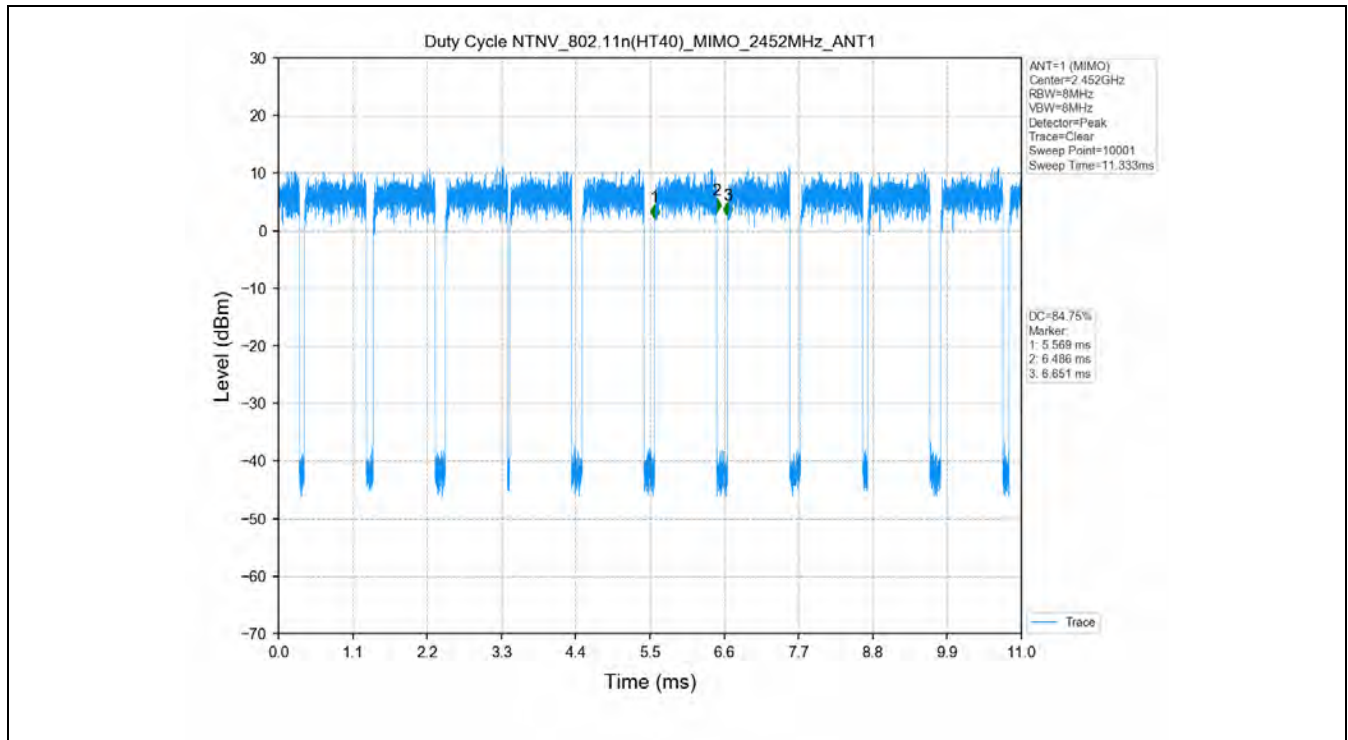












2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth	1.5*BW(M Hz)	Limits (MHz)	Span using in Power (MHz)	Span using in PSD (MHz)	Verdict
				Test Result (MHz)					
802.11b	2412	SISO	1	10.111	15.16	≥0.5	15.16	15.16	PASS
			2	10.060	15.09	≥0.5	15.09	15.09	PASS
	2437	SISO	1	10.085	15.12	≥0.5	15.12	15.12	PASS
			2	10.086	15.12	≥0.5	15.12	15.12	PASS
	2462	SISO	1	10.095	15.14	≥0.5	15.14	15.14	PASS
			2	10.063	15.09	≥0.5	15.09	15.09	PASS
802.11g	2412	SISO	1	16.379	24.56	≥0.5	24.56	24.56	PASS
			2	16.391	24.58	≥0.5	24.58	24.58	PASS
	2437	SISO	1	16.401	24.60	≥0.5	24.60	24.60	PASS
			2	16.401	24.60	≥0.5	24.60	24.60	PASS
	2462	SISO	1	16.379	24.56	≥0.5	24.56	24.56	PASS
			2	16.383	24.57	≥0.5	24.57	24.57	PASS
802.11n(HT 20)	2412	MIMO	1	17.583	26.37	≥0.5	26.37	26.37	PASS
			2	17.386	26.07	≥0.5	26.07	26.07	PASS
	2437	MIMO	1	17.573	26.36	≥0.5	26.36	26.36	PASS
			2	17.571	26.35	≥0.5	26.35	26.35	PASS
	2462	MIMO	1	17.588	26.38	≥0.5	26.38	26.38	PASS
			2	17.588	26.38	≥0.5	26.38	26.38	PASS
802.11n(HT 40)	2422	MIMO	1	35.965	53.94	≥0.5	53.94	53.94	PASS
			2	35.747	53.62	≥0.5	53.62	53.62	PASS

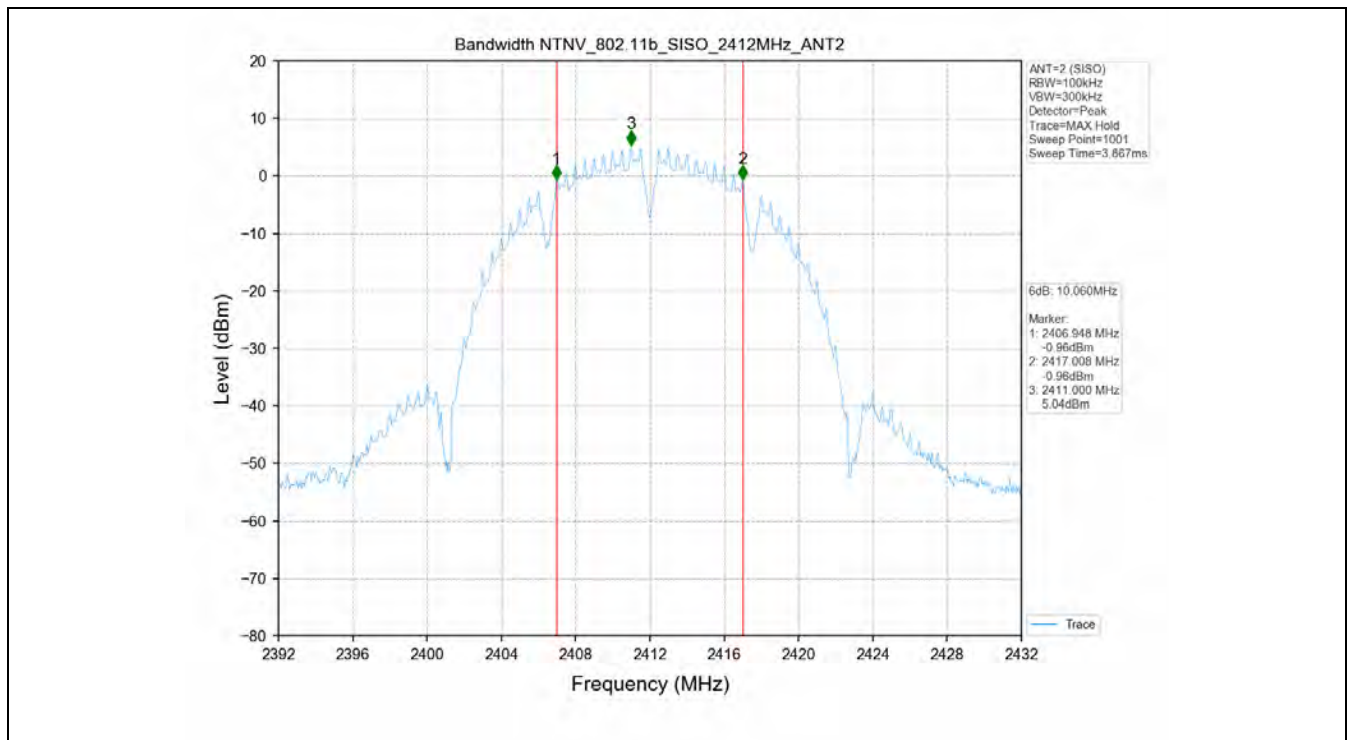
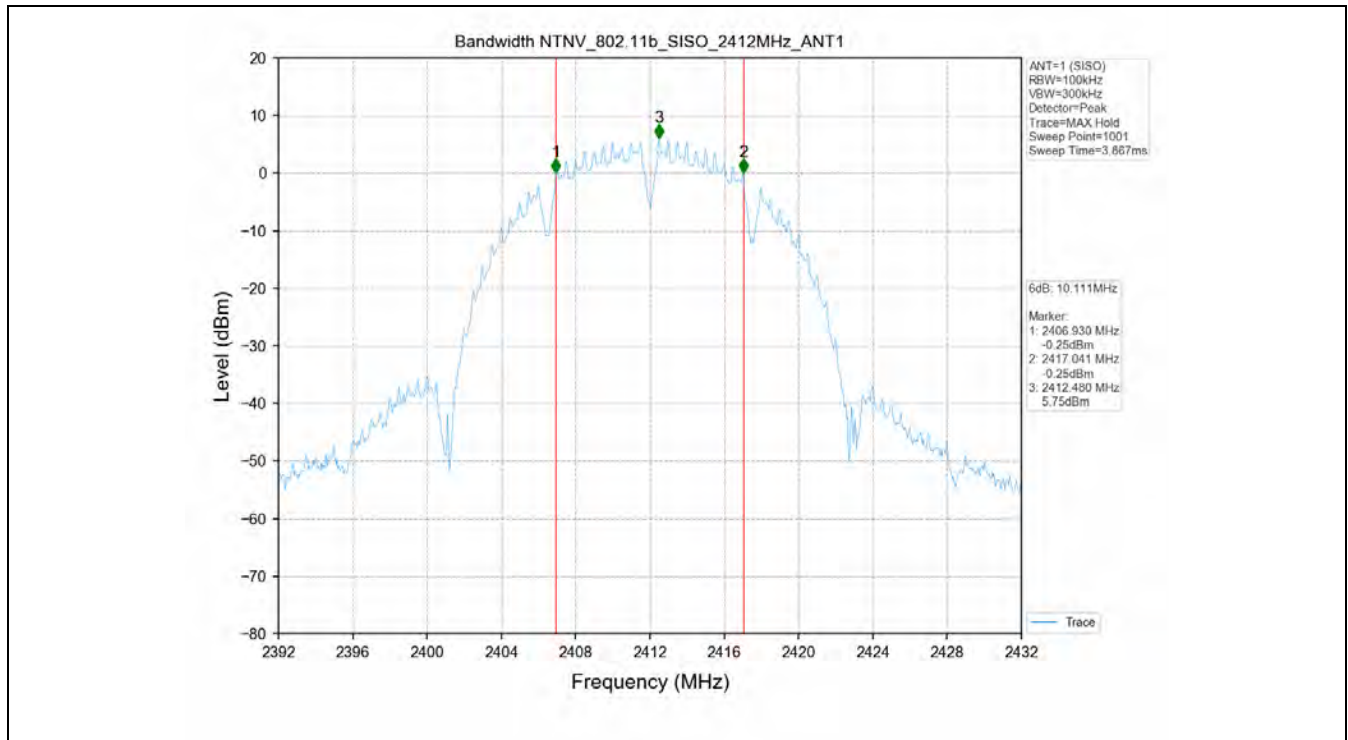


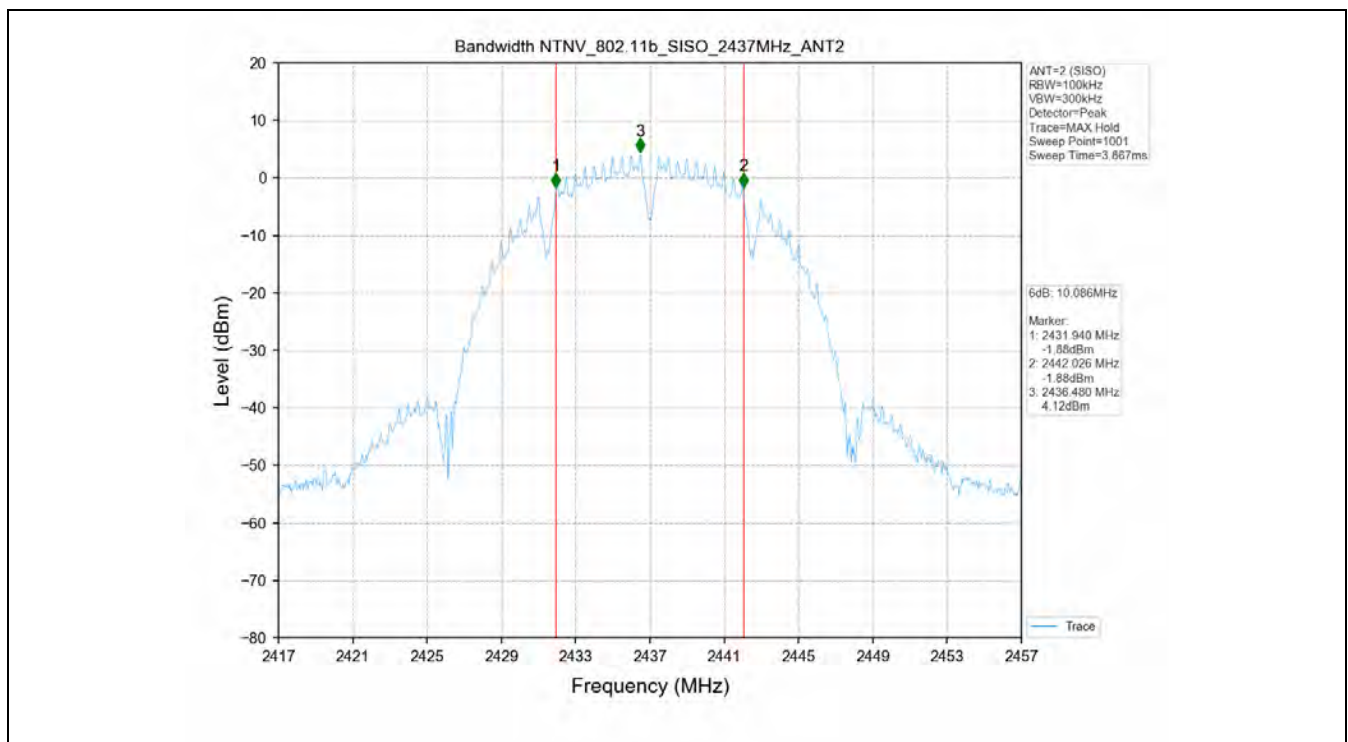
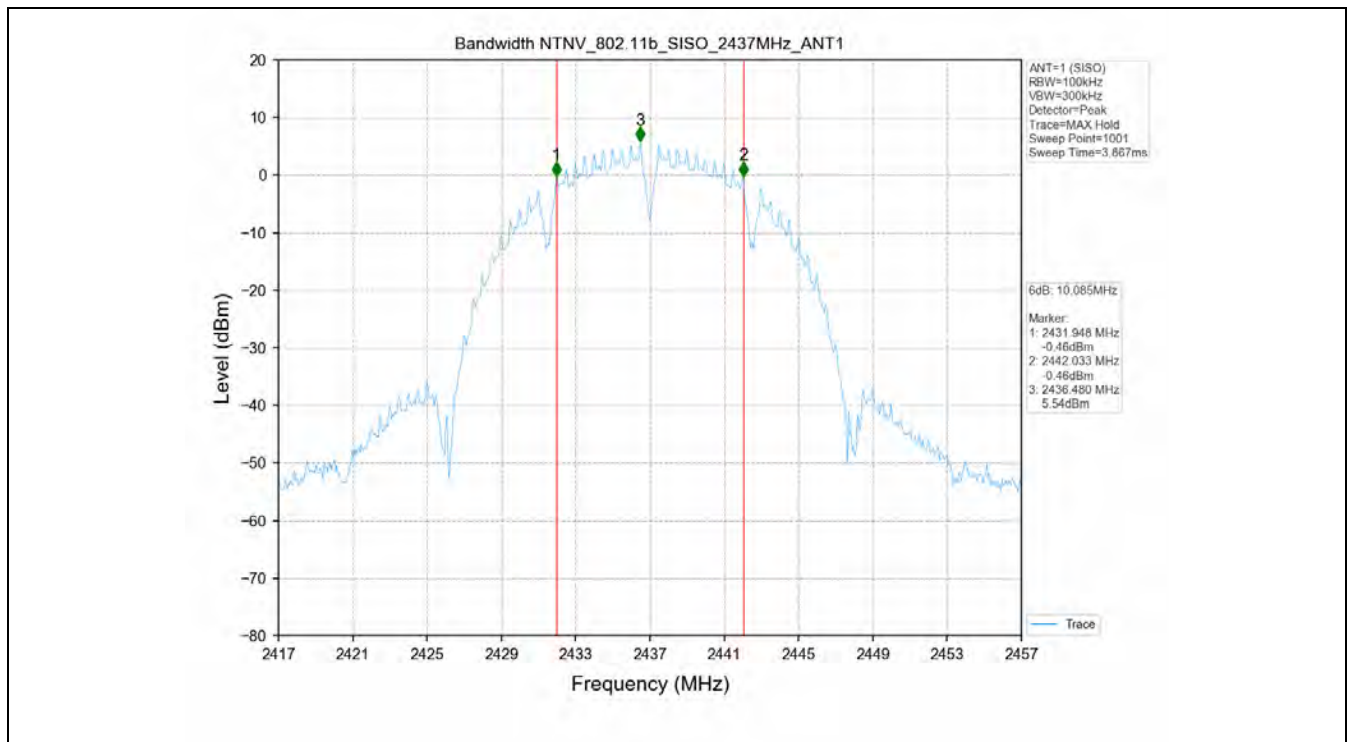
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

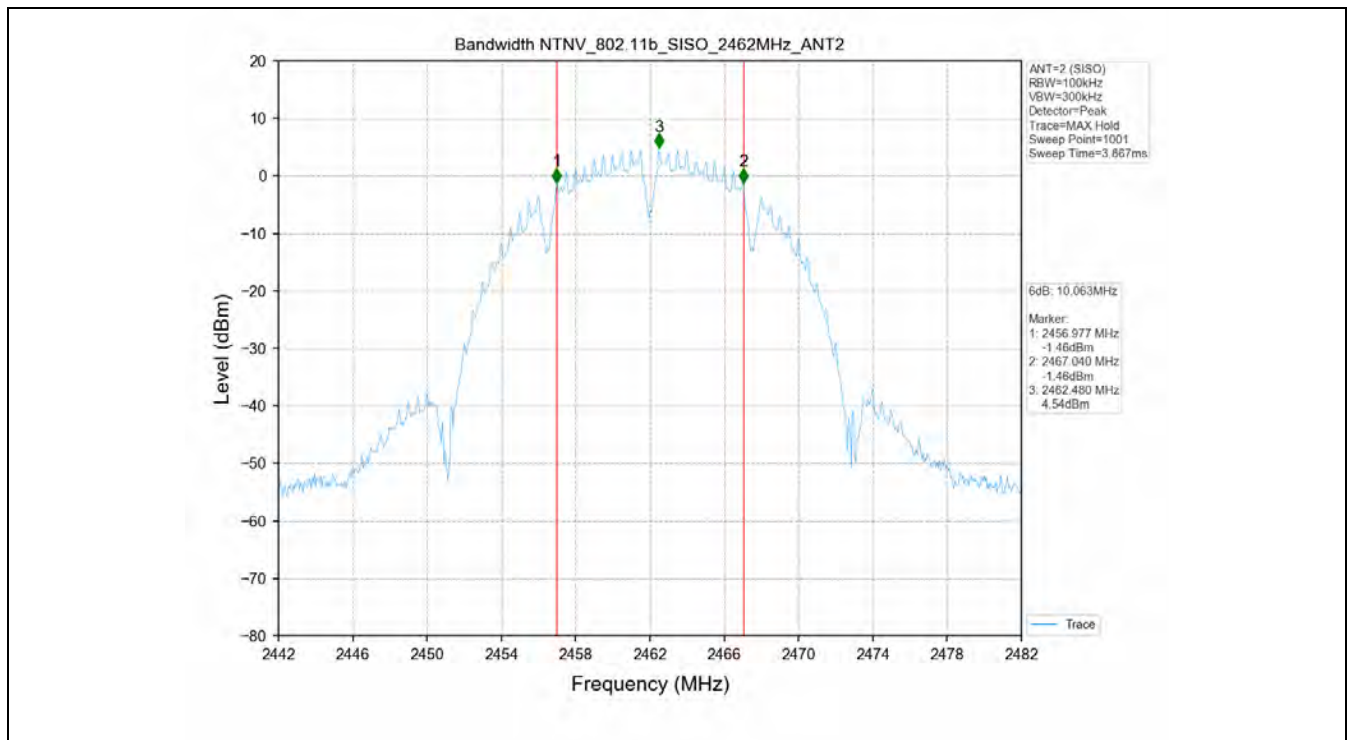
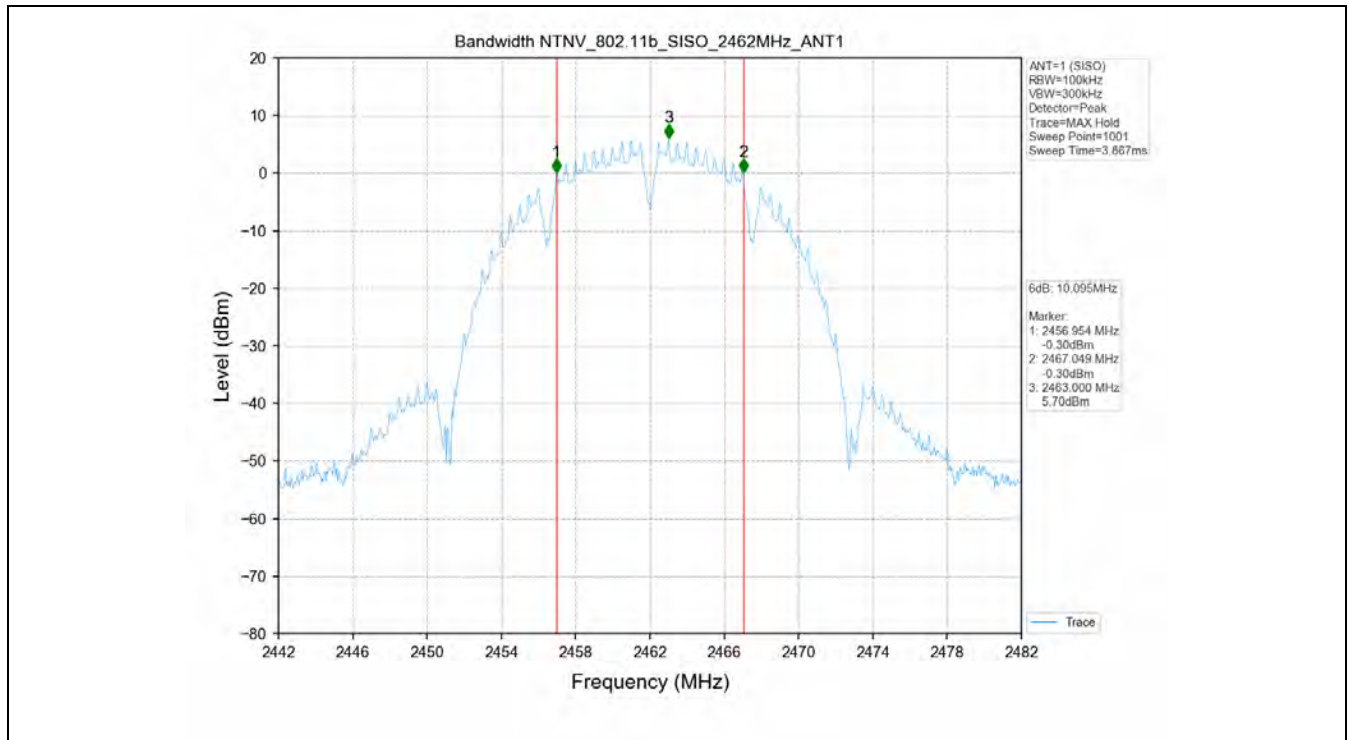
	2437	MIMO	1	35.782	53.673	≥ 0.5	53.67	53.67	PASS
			2	35.777	53.666	≥ 0.5	53.67	53.67	PASS
	2452	MIMO	1	35.576	53.364	≥ 0.5	53.36	53.36	PASS
			2	35.573	53.360	≥ 0.5	53.36	53.36	PASS

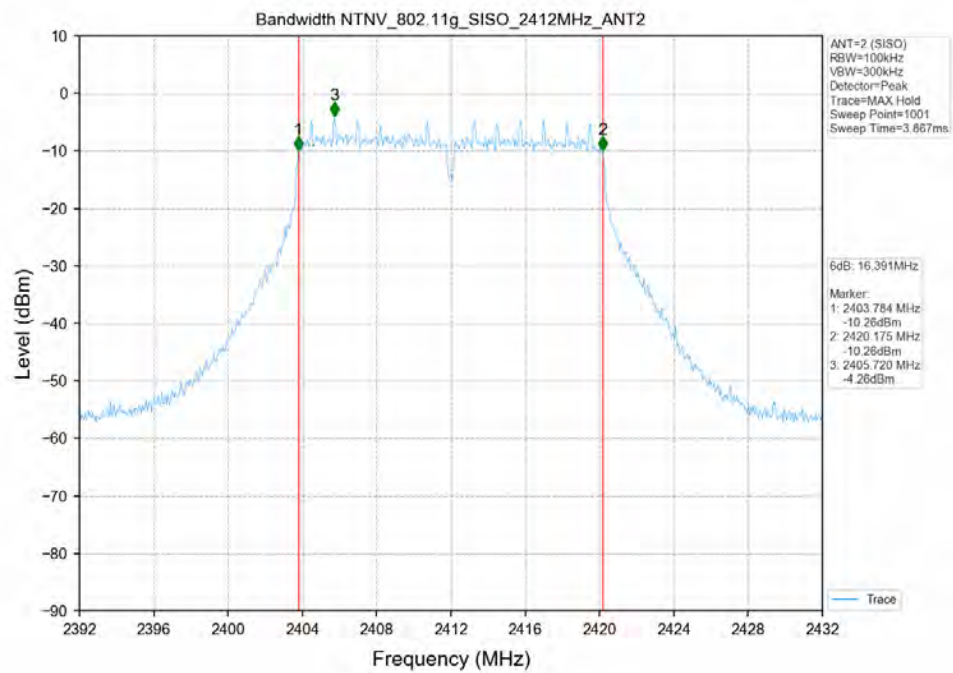
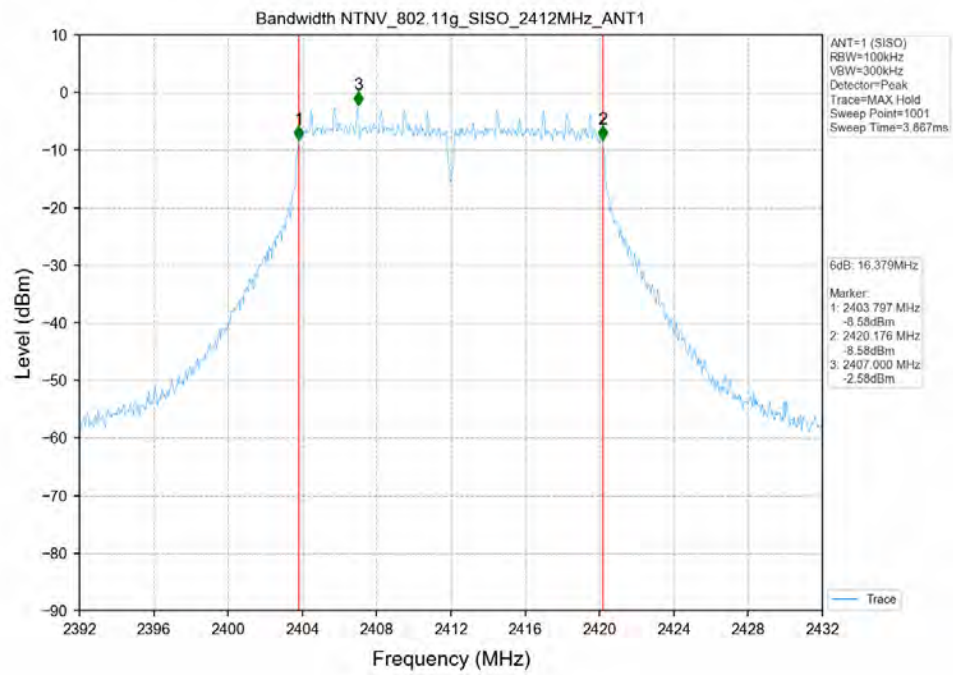
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	14.940	Only for Report Use
			2	14.932	Only for Report Use
	2437	SISO	1	14.957	Only for Report Use
			2	14.948	Only for Report Use
	2462	SISO	1	14.923	Only for Report Use
			2	14.918	Only for Report Use
802.11g	2412	SISO	1	16.934	Only for Report Use
			2	16.792	Only for Report Use
	2437	SISO	1	16.900	Only for Report Use
			2	16.785	Only for Report Use
	2462	SISO	1	16.942	Only for Report Use
			2	16.880	Only for Report Use
802.11n(HT20)	2412	MIMO	1	17.953	Only for Report Use
			2	17.932	Only for Report Use
	2437	MIMO	1	17.910	Only for Report Use
			2	17.921	Only for Report Use
	2462	MIMO	1	17.970	Only for Report Use
			2	17.962	Only for Report Use
802.11n(HT40)	2422	MIMO	1	36.073	Only for Report Use
			2	36.147	Only for Report Use
	2437	MIMO	1	36.113	Only for Report Use
			2	36.159	Only for Report Use
	2452	MIMO	1	36.031	Only for Report Use
			2	36.066	Only for Report Use

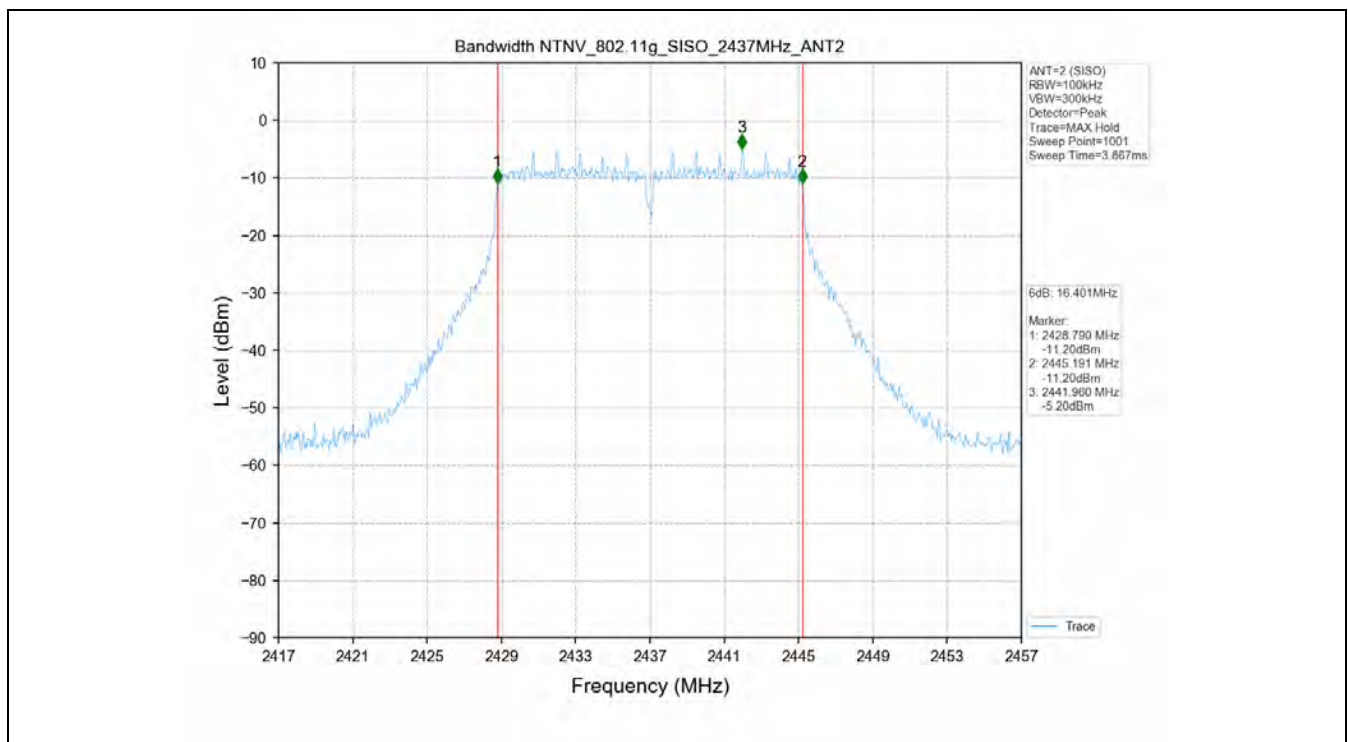
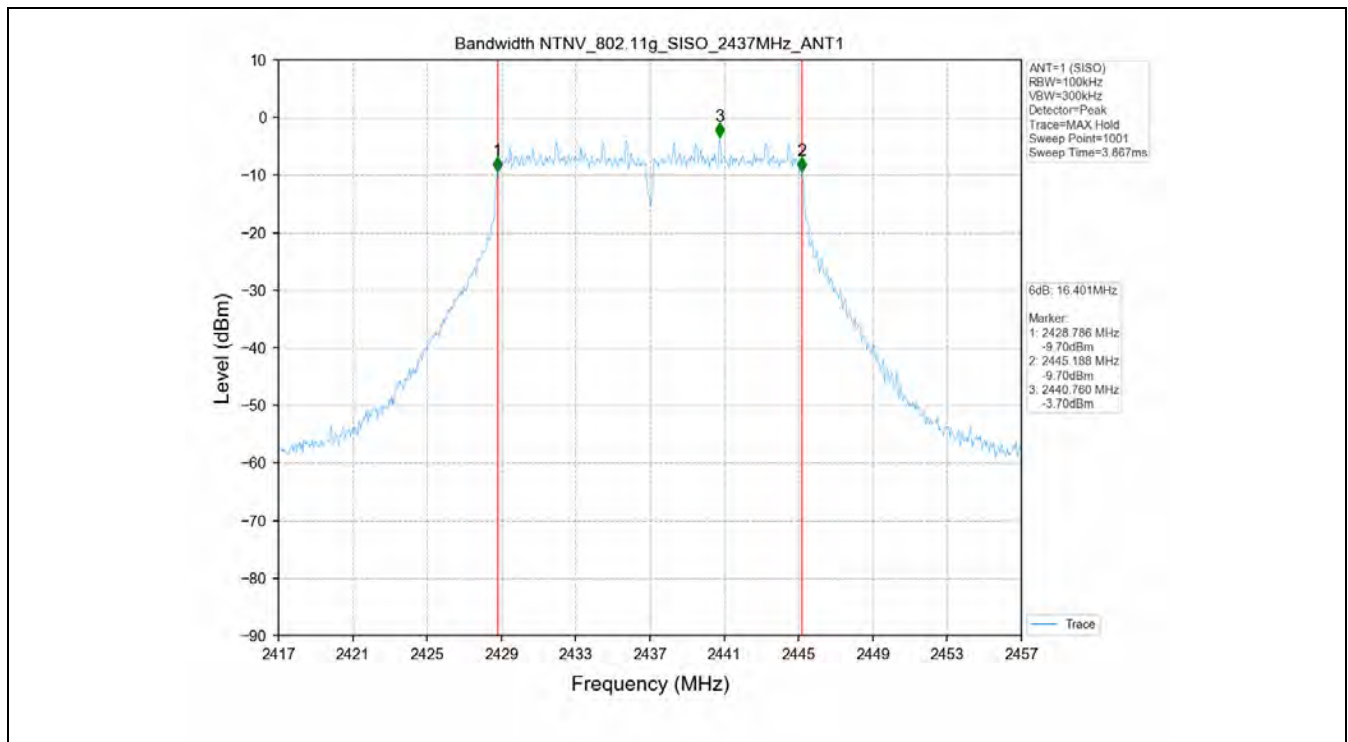
2.2 Test Graph - 6dB Bandwidth

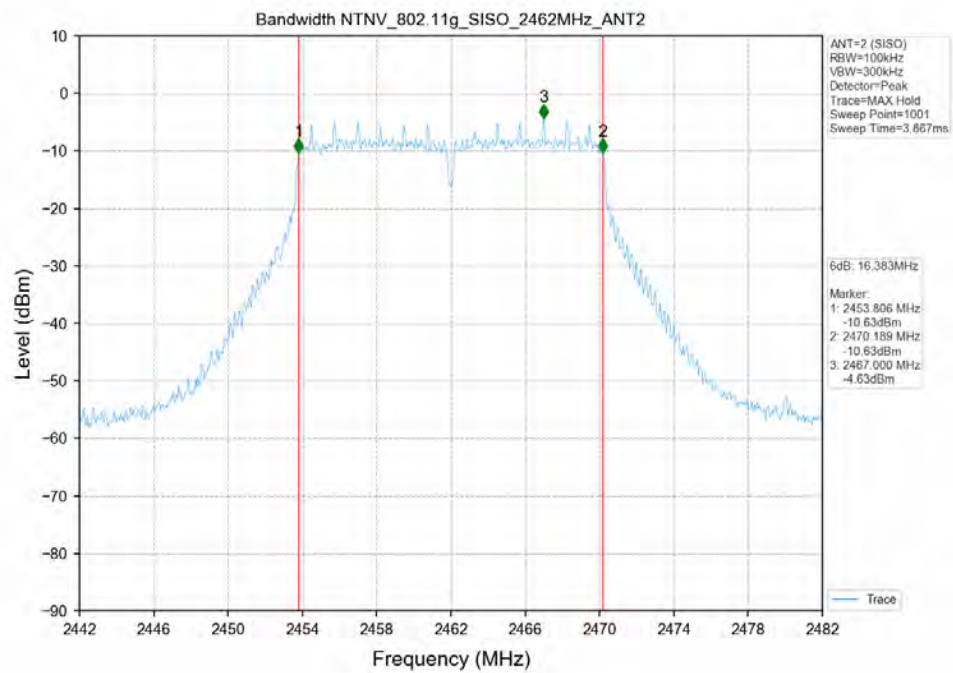
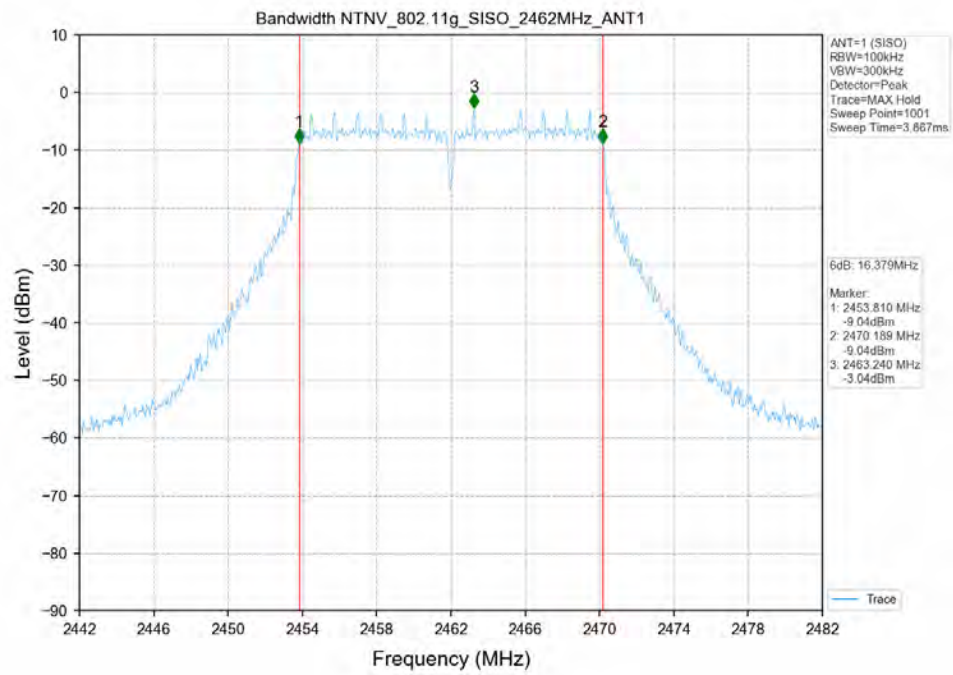


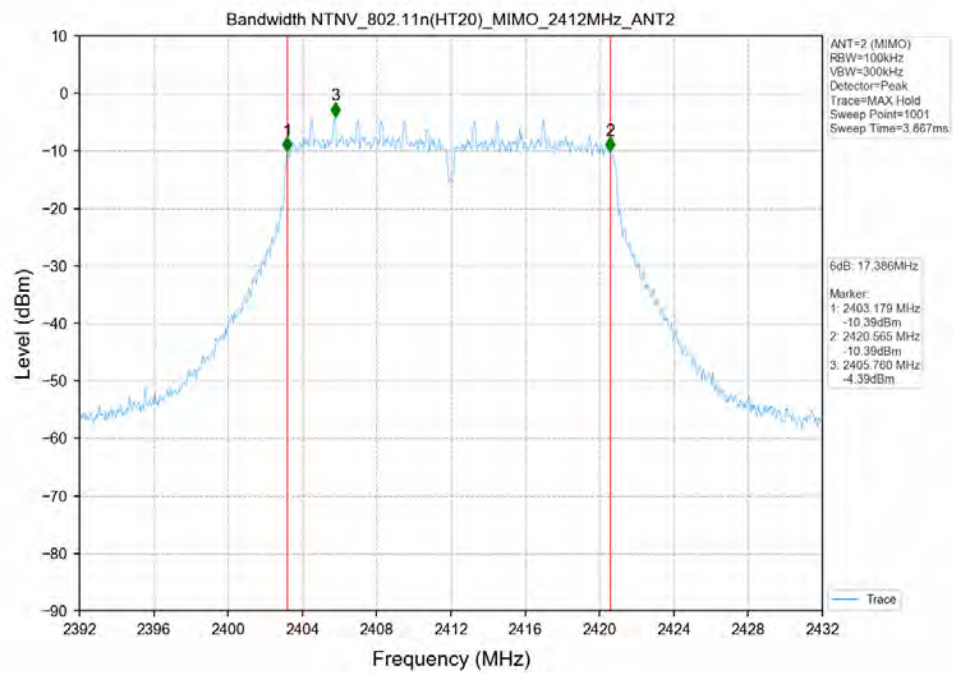
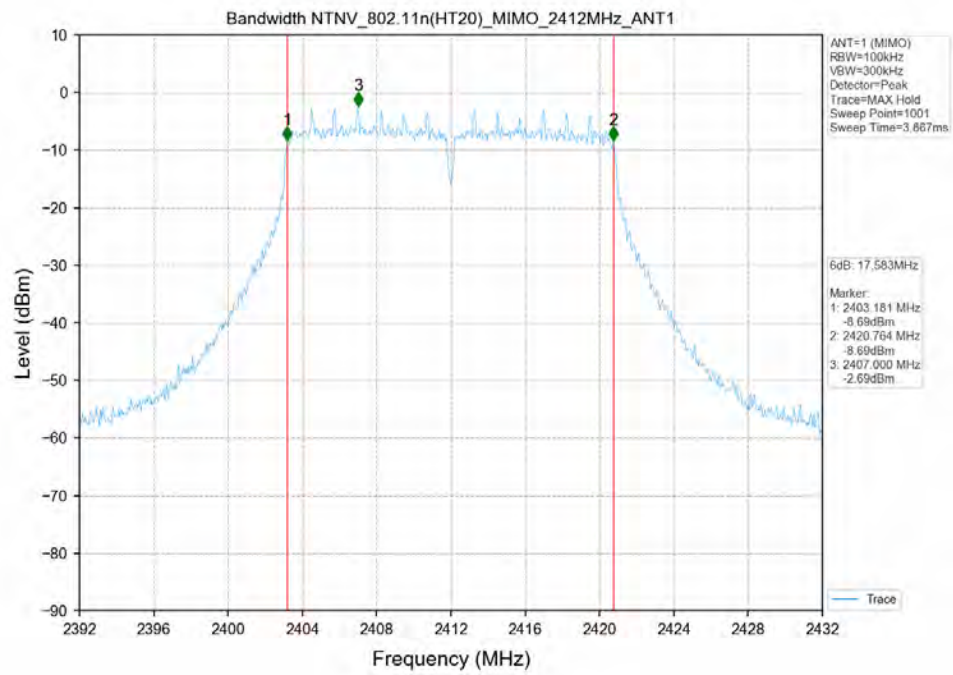


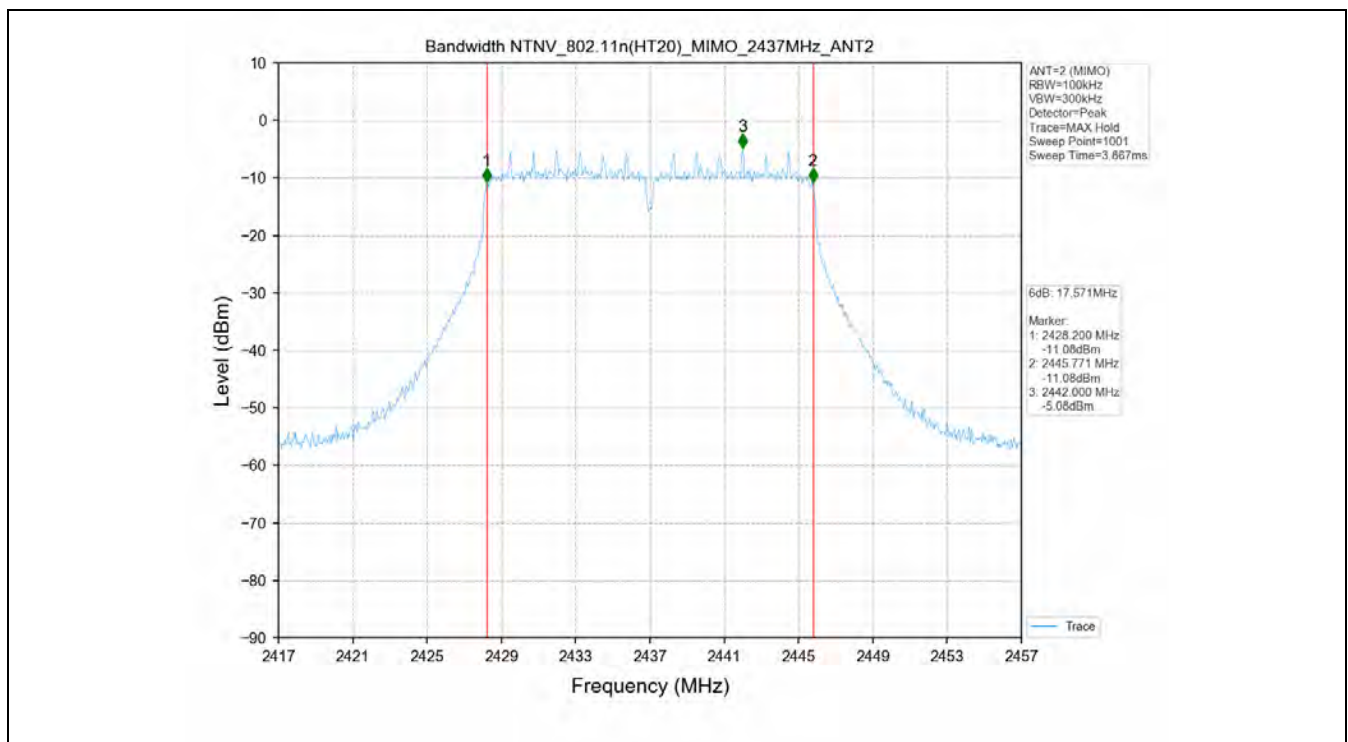
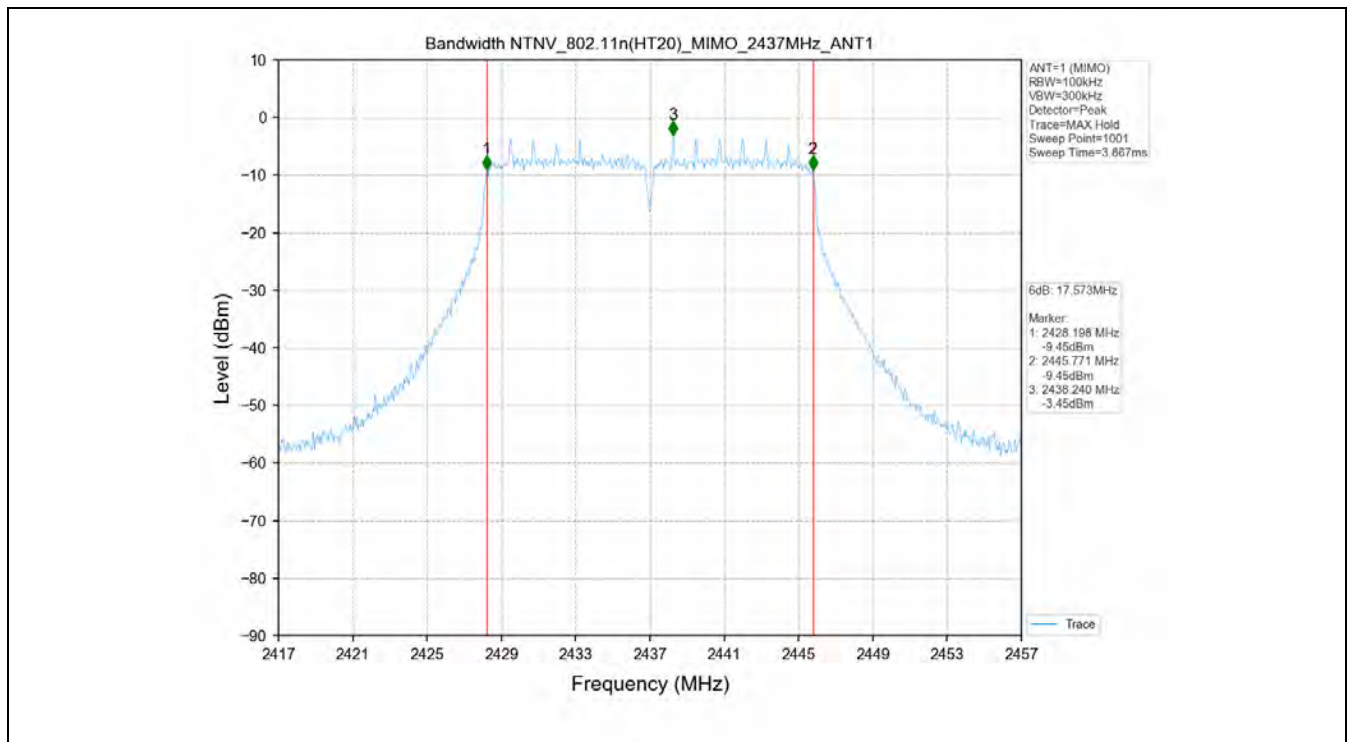


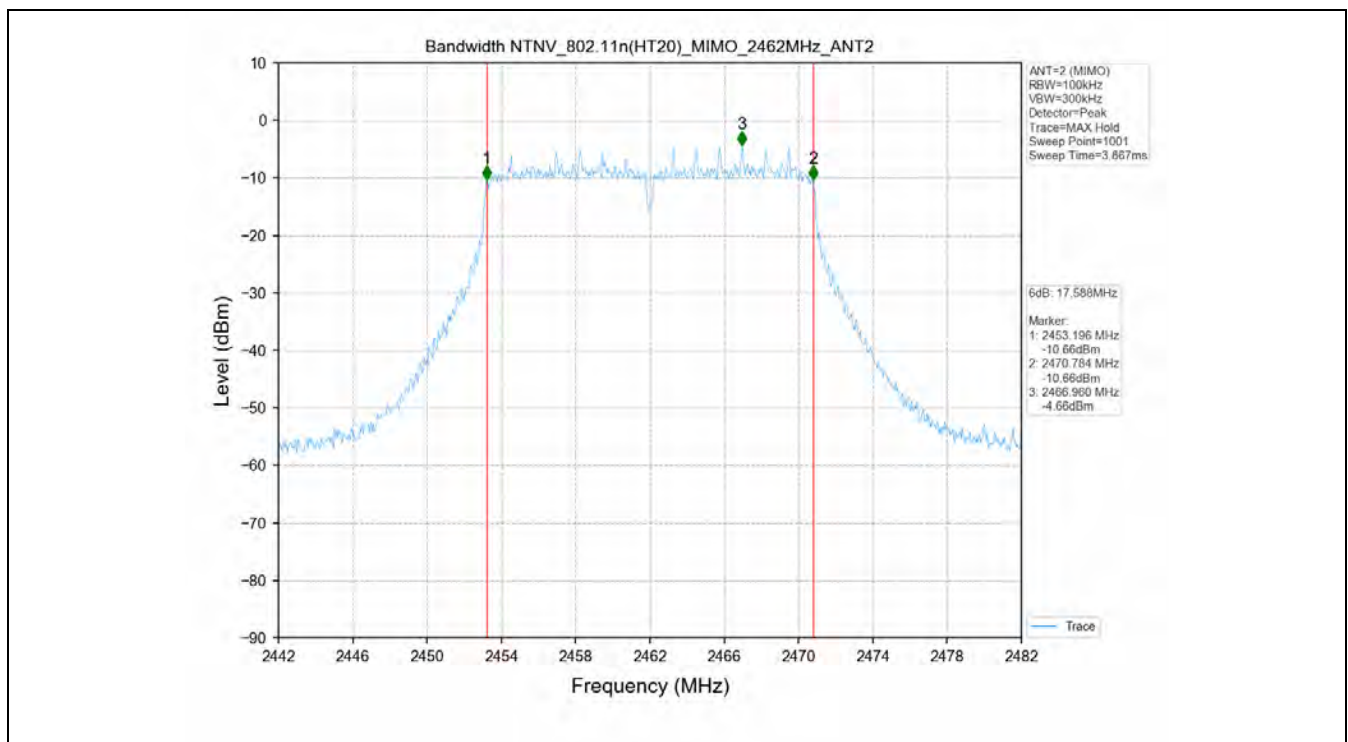
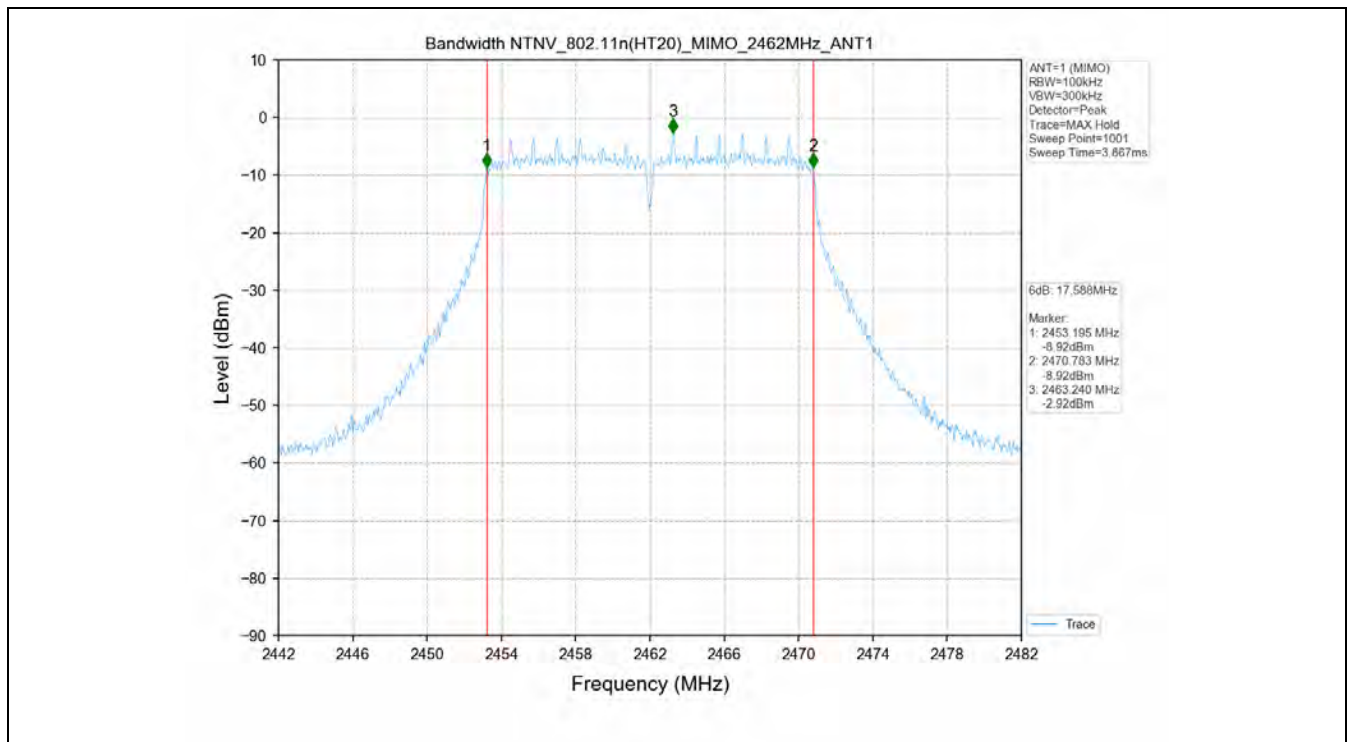


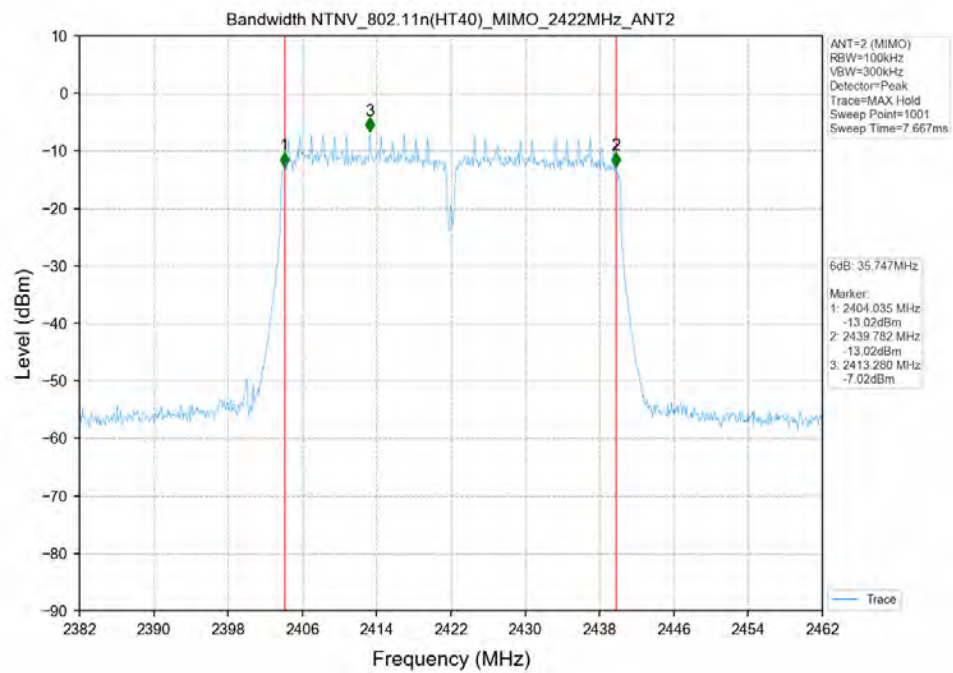
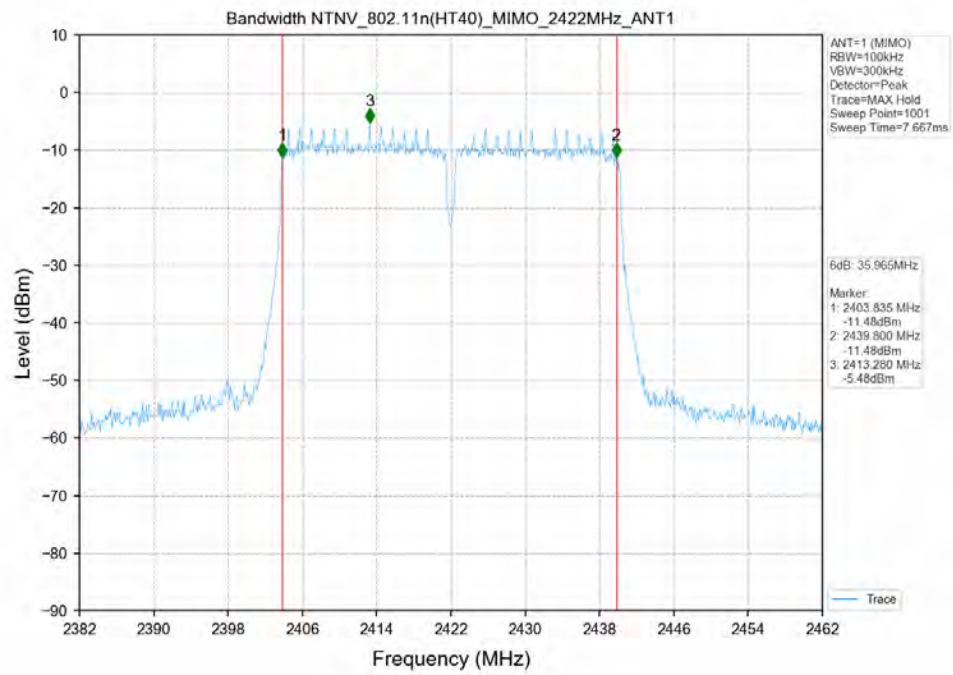


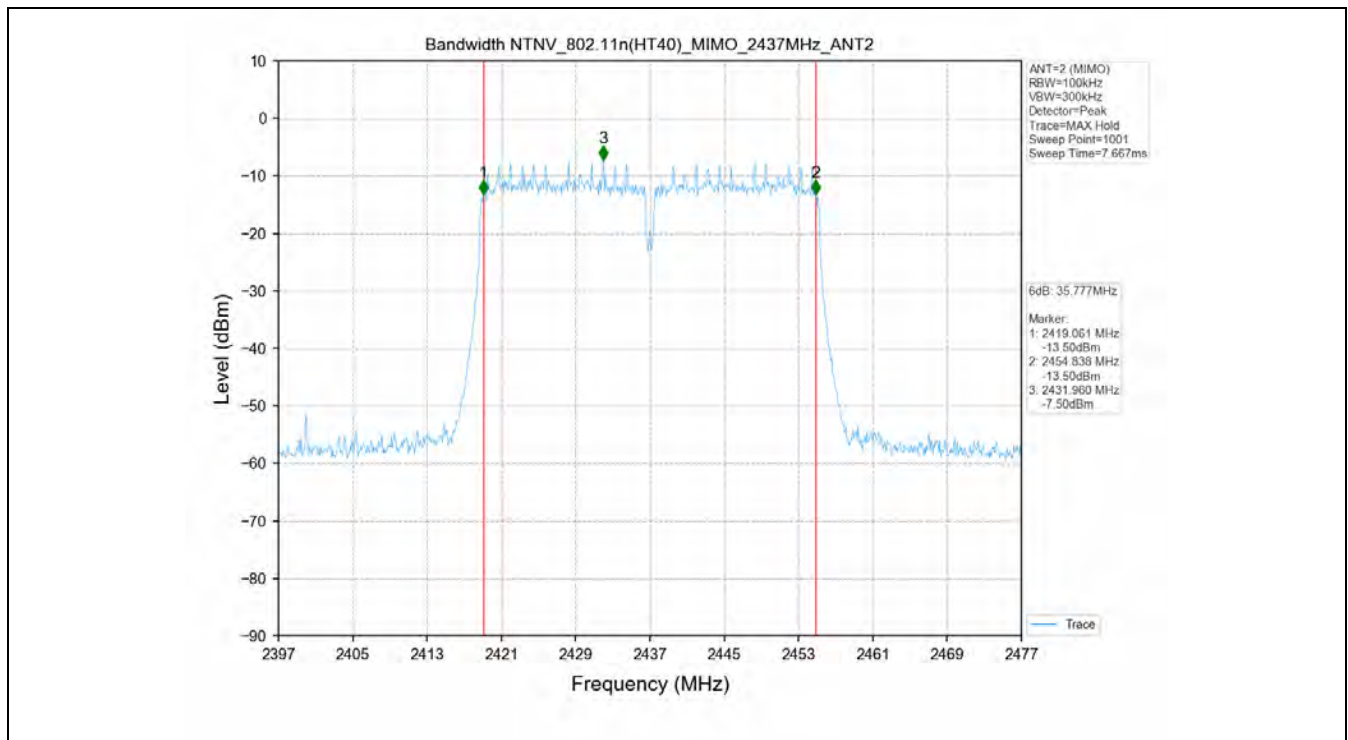
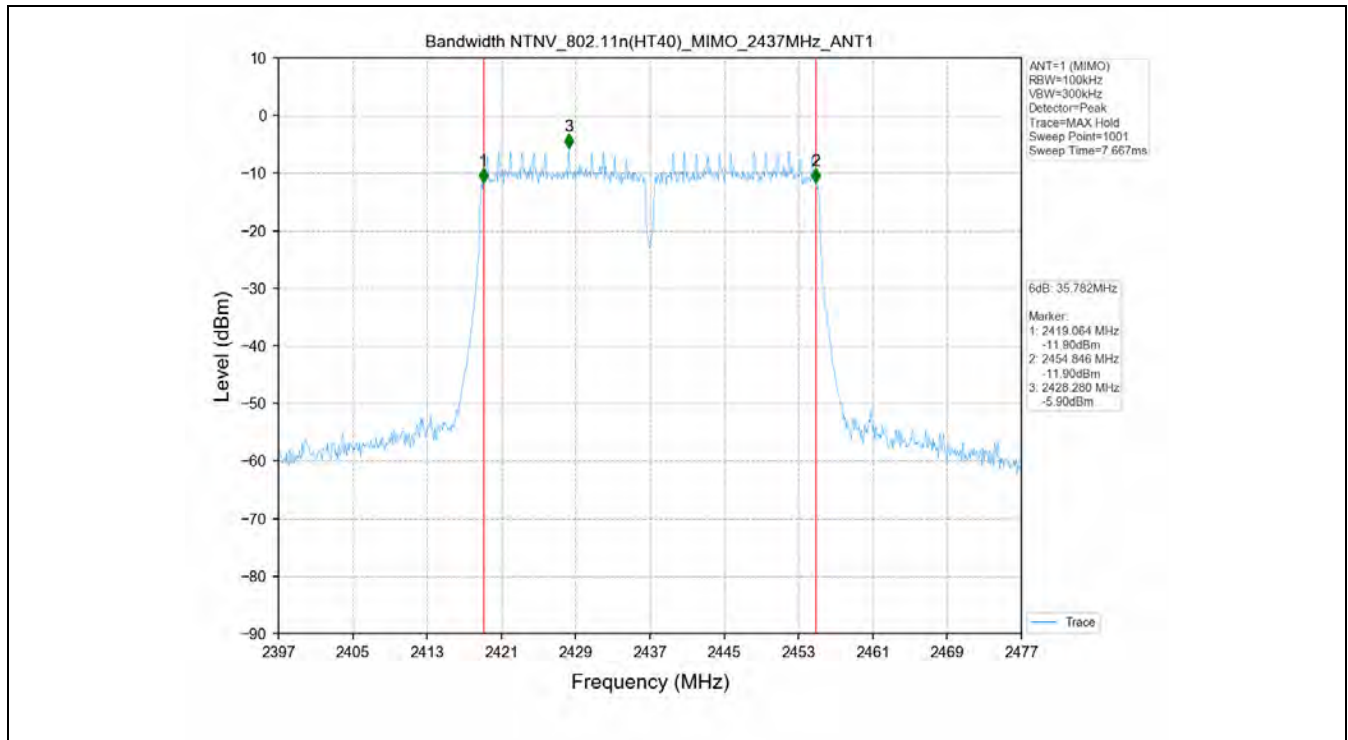


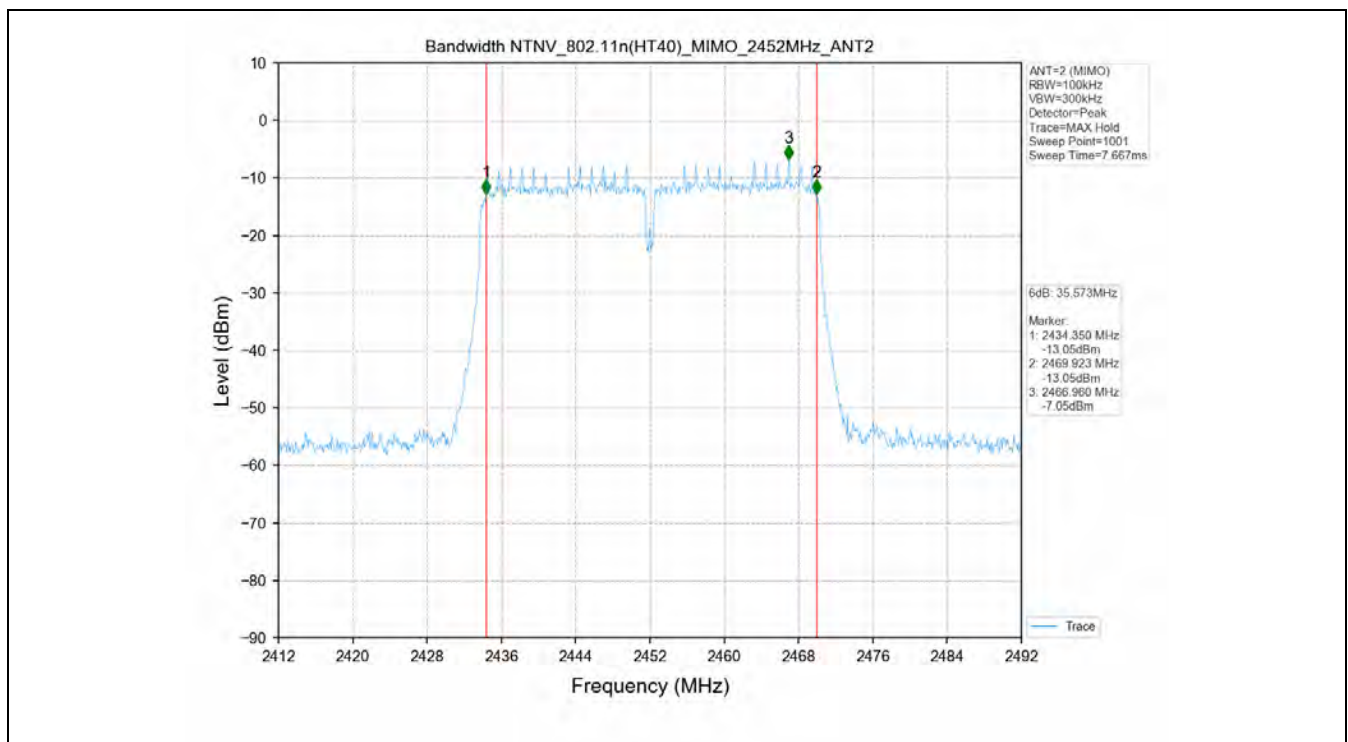
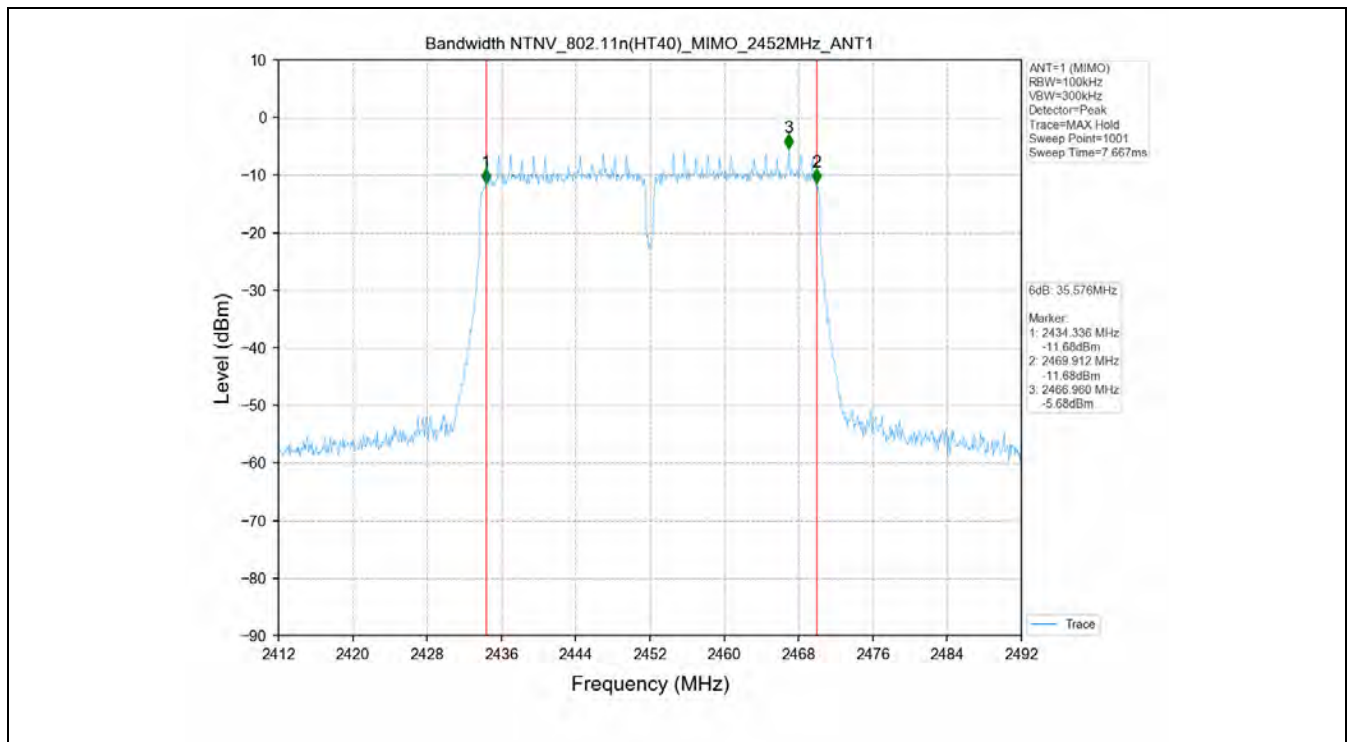






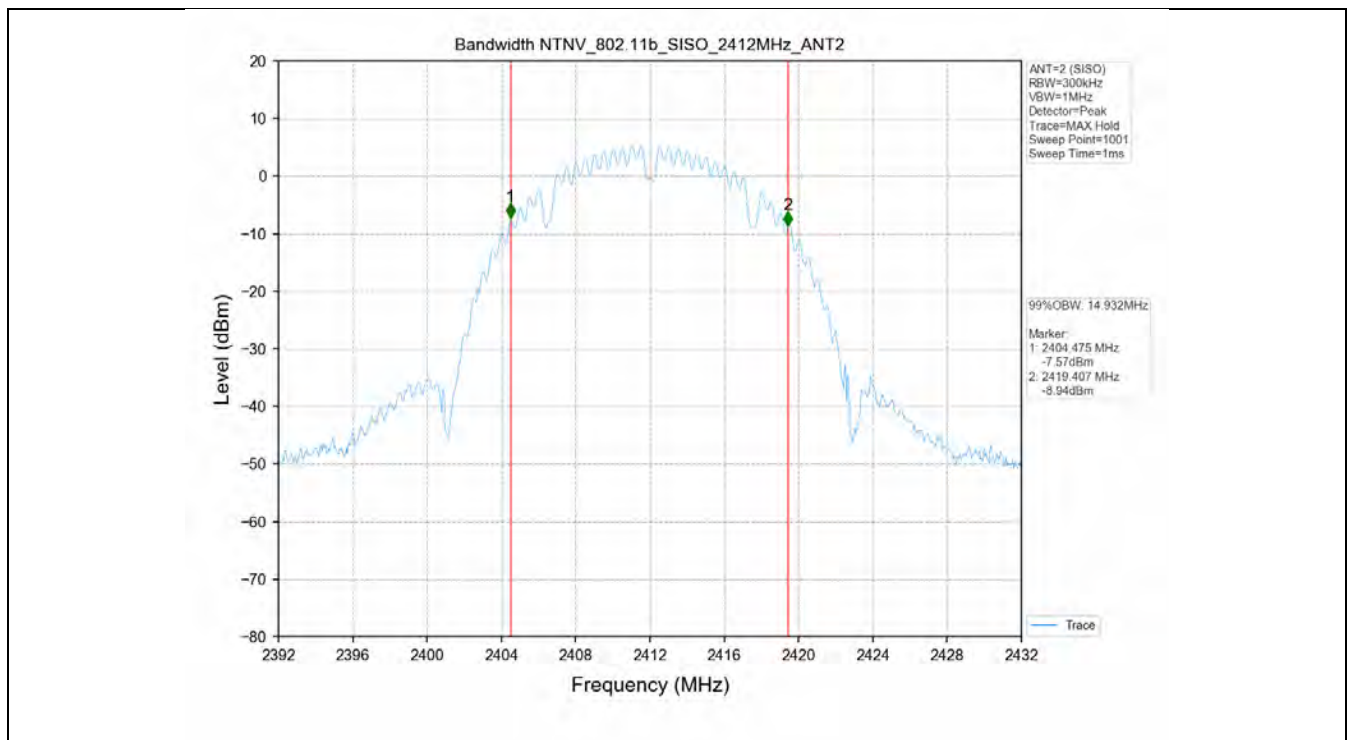
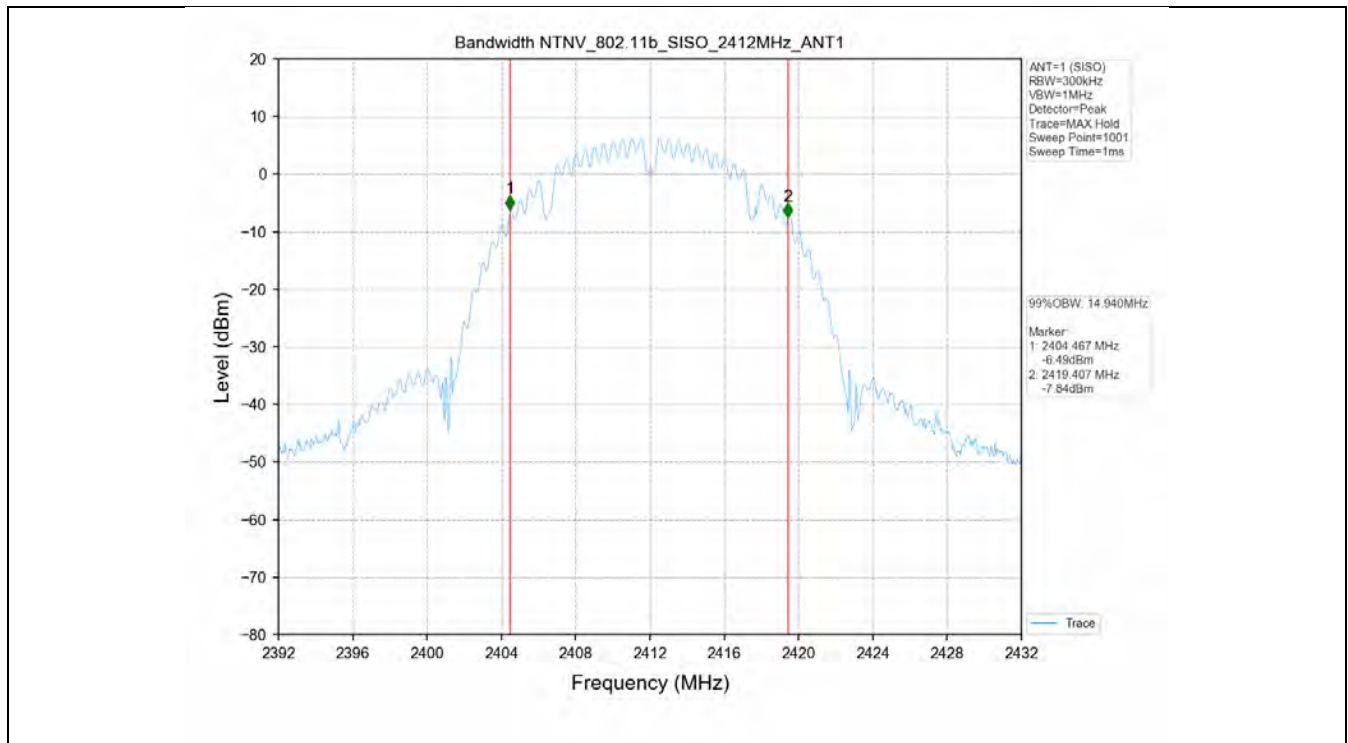


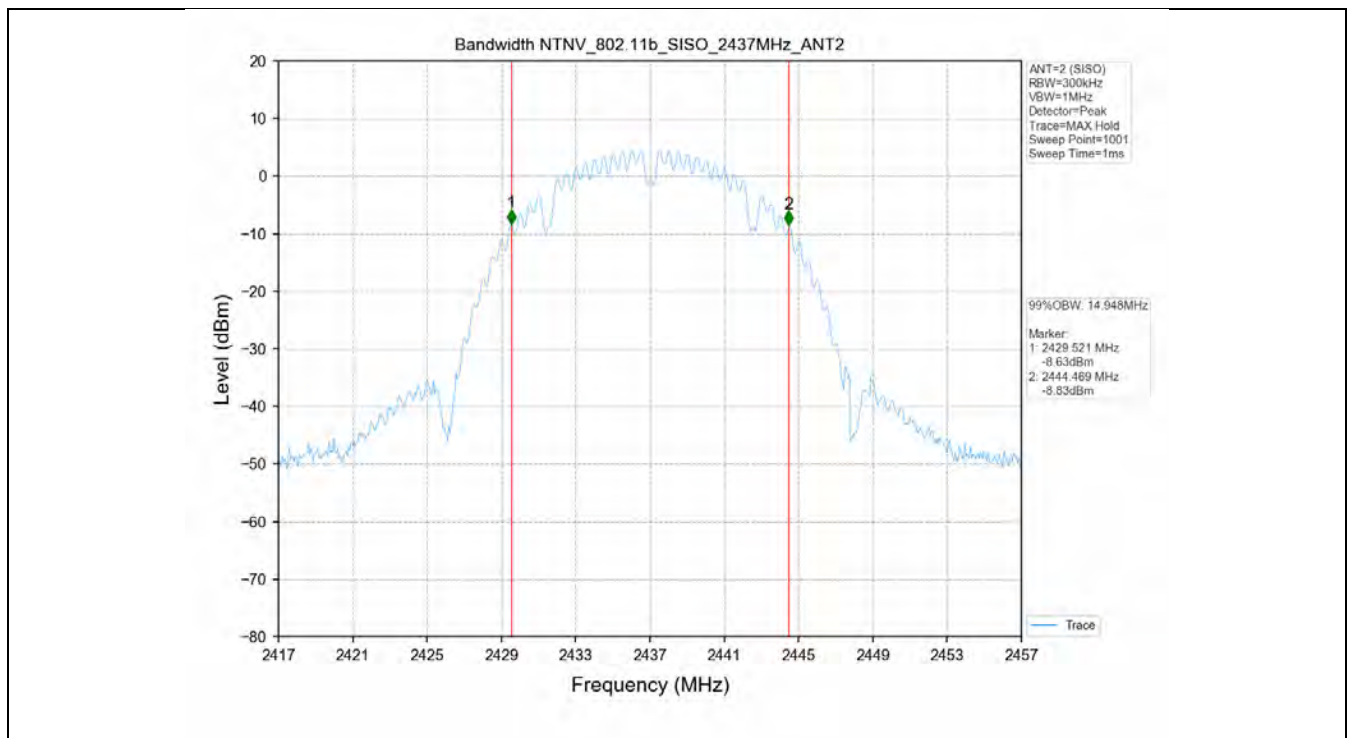
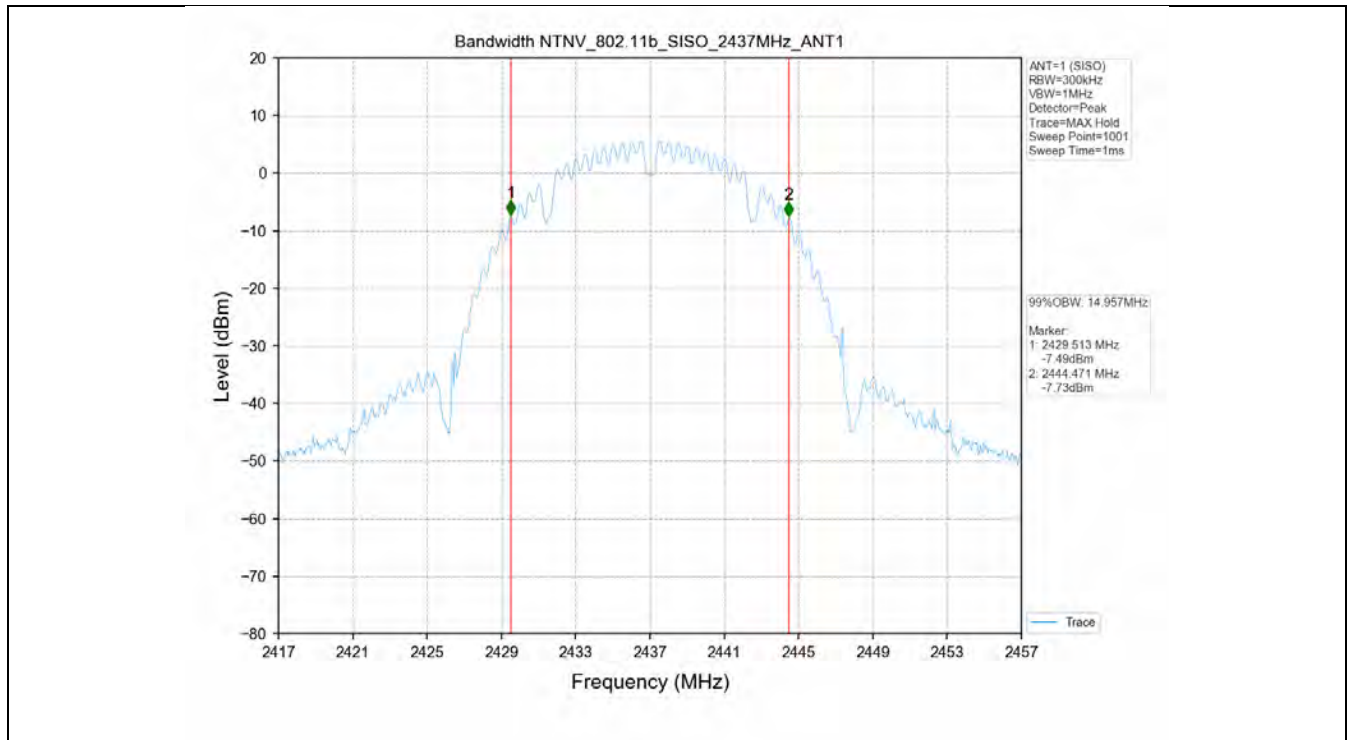


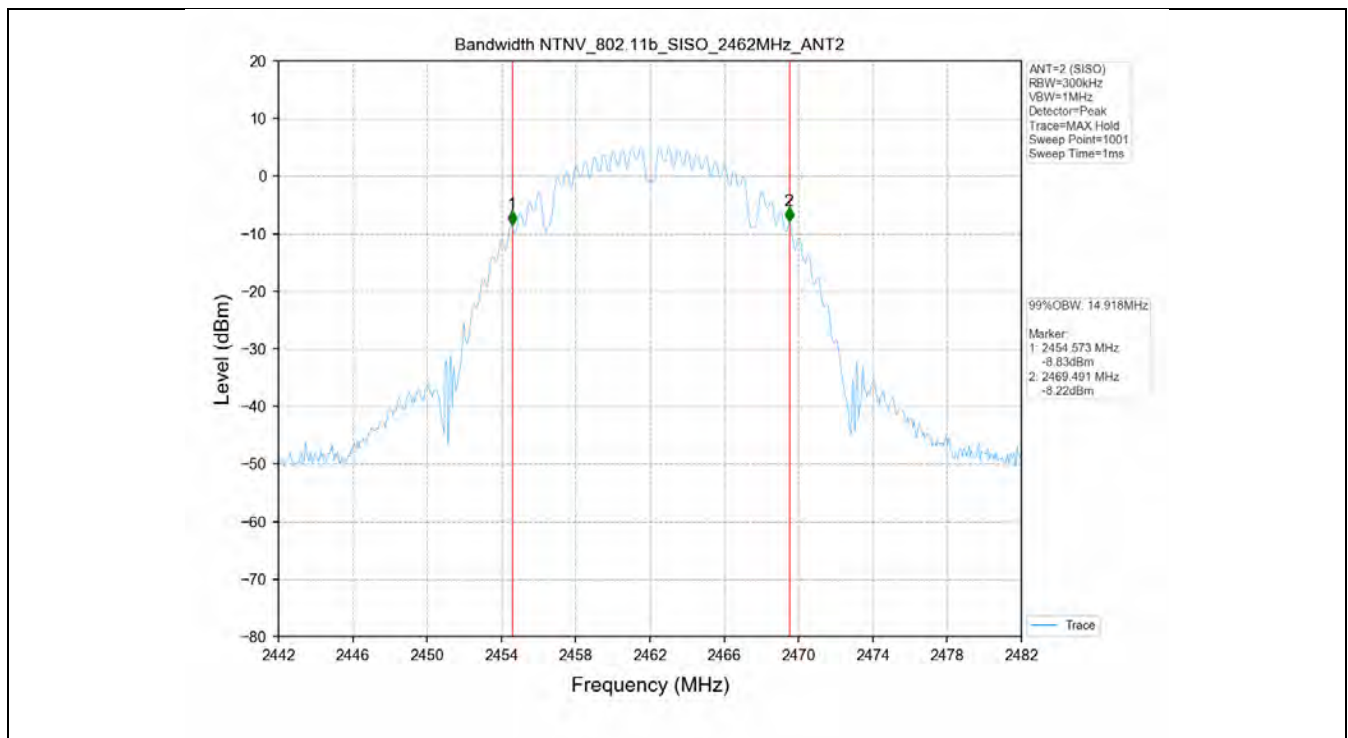
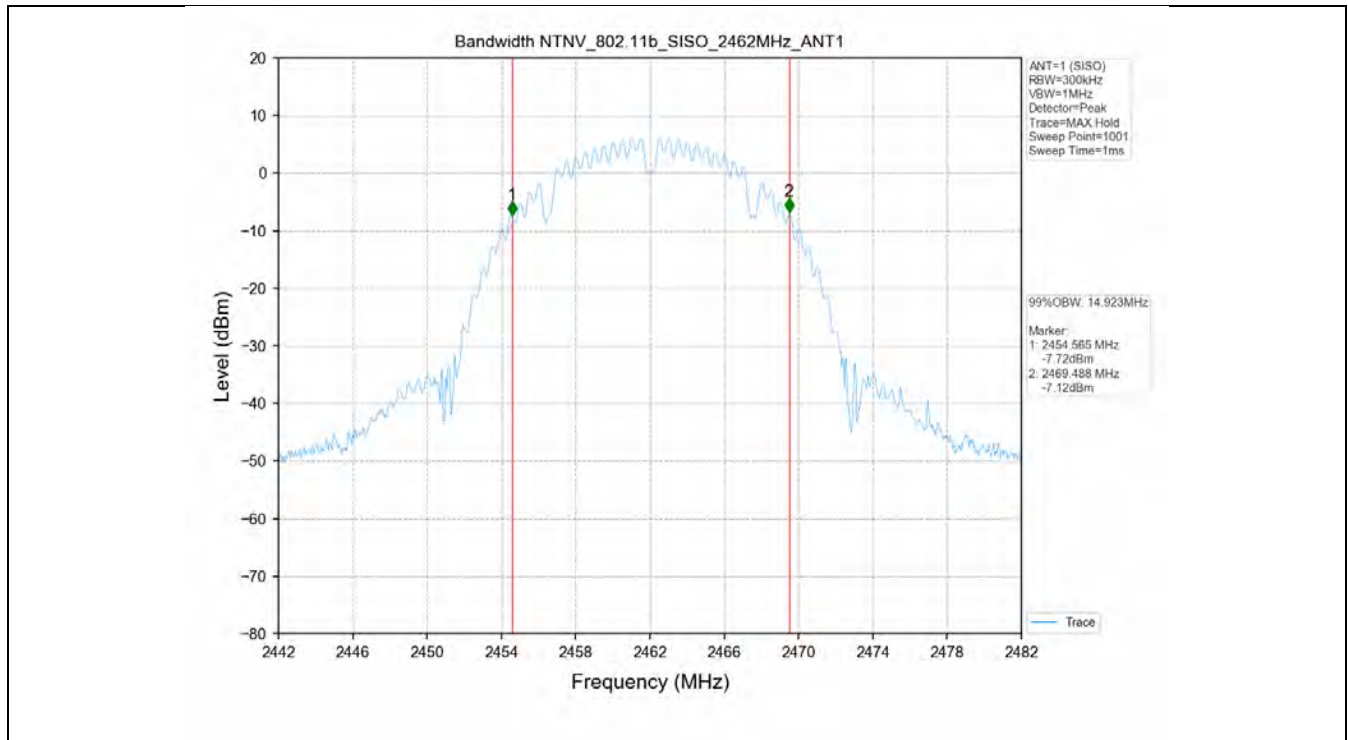


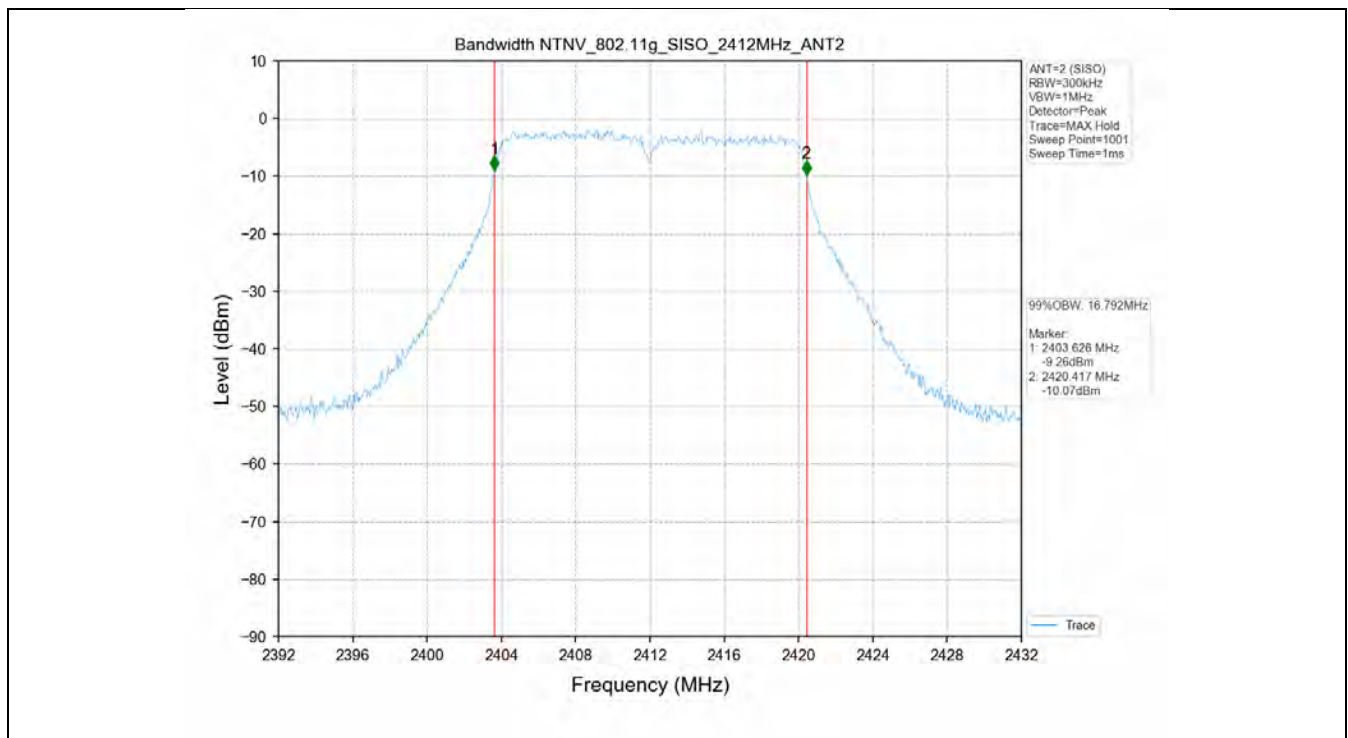
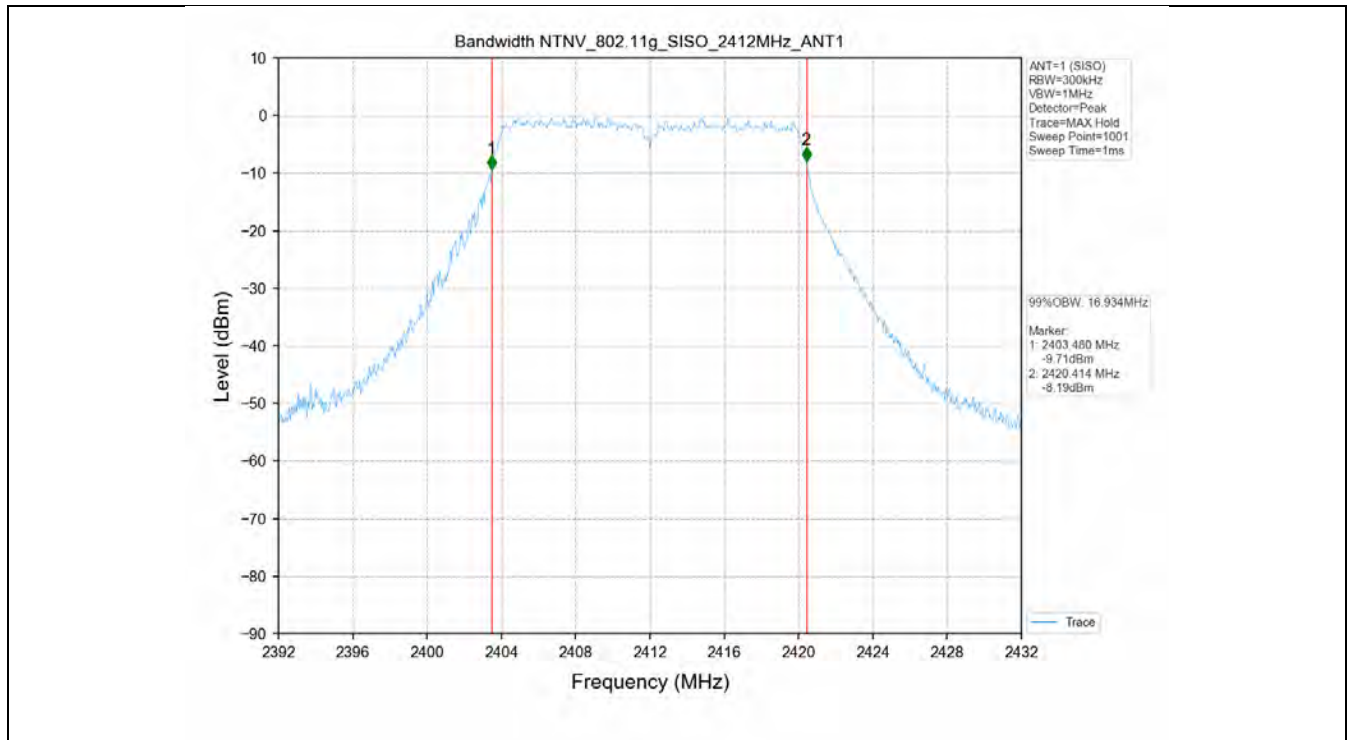


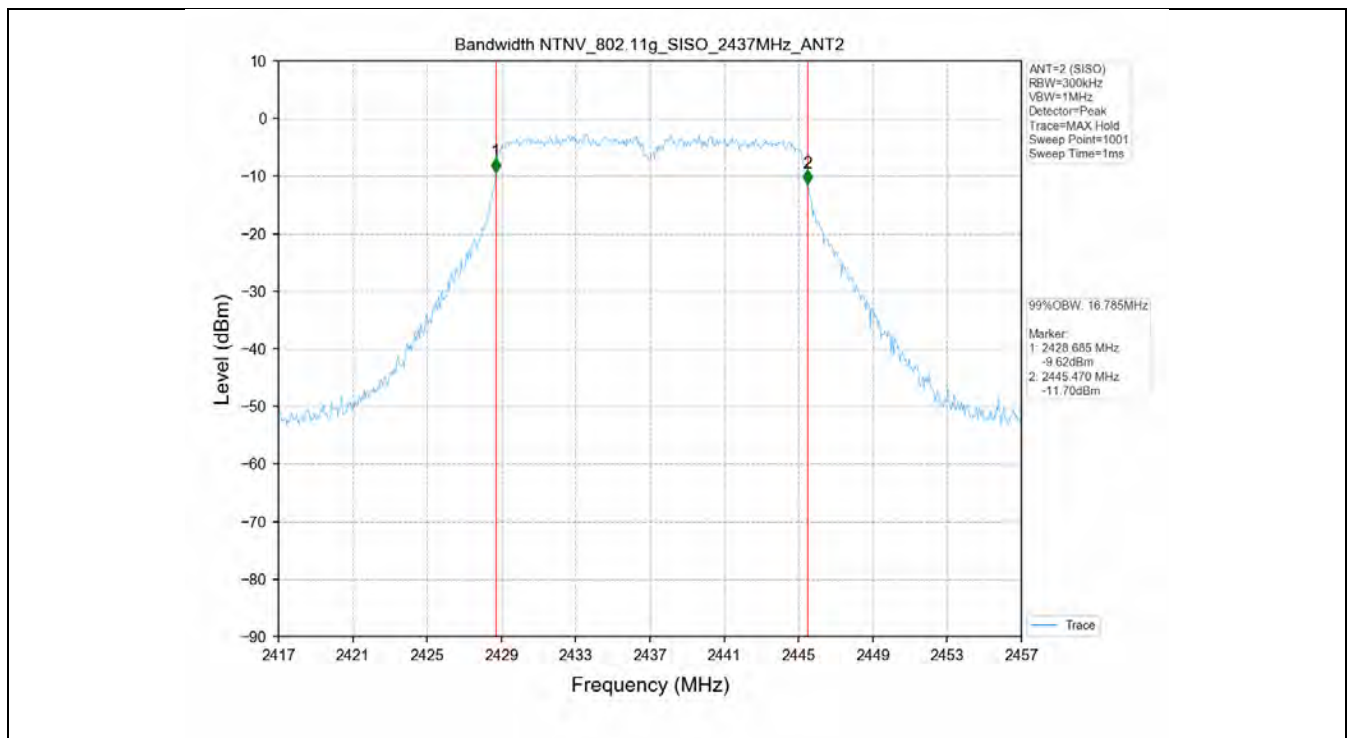
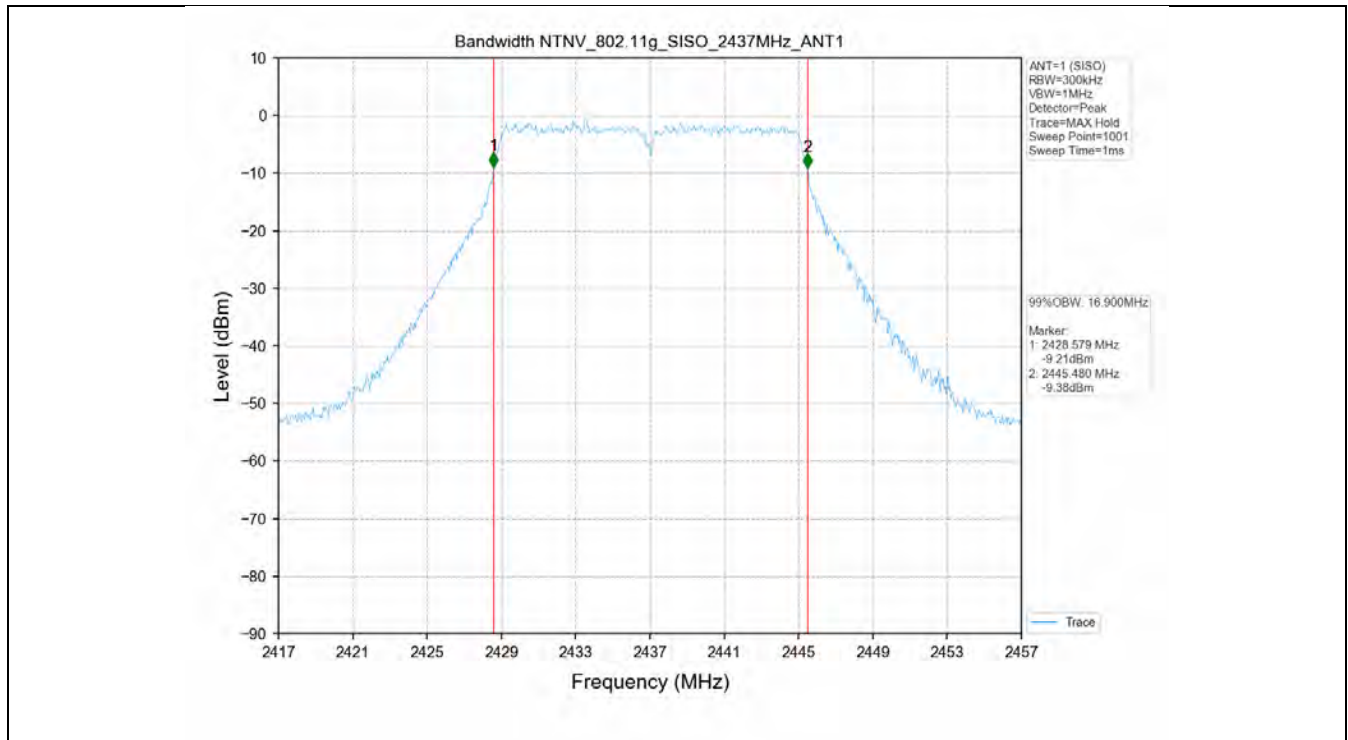
2.3 Test Graph - 99% Occupied Bandwidth

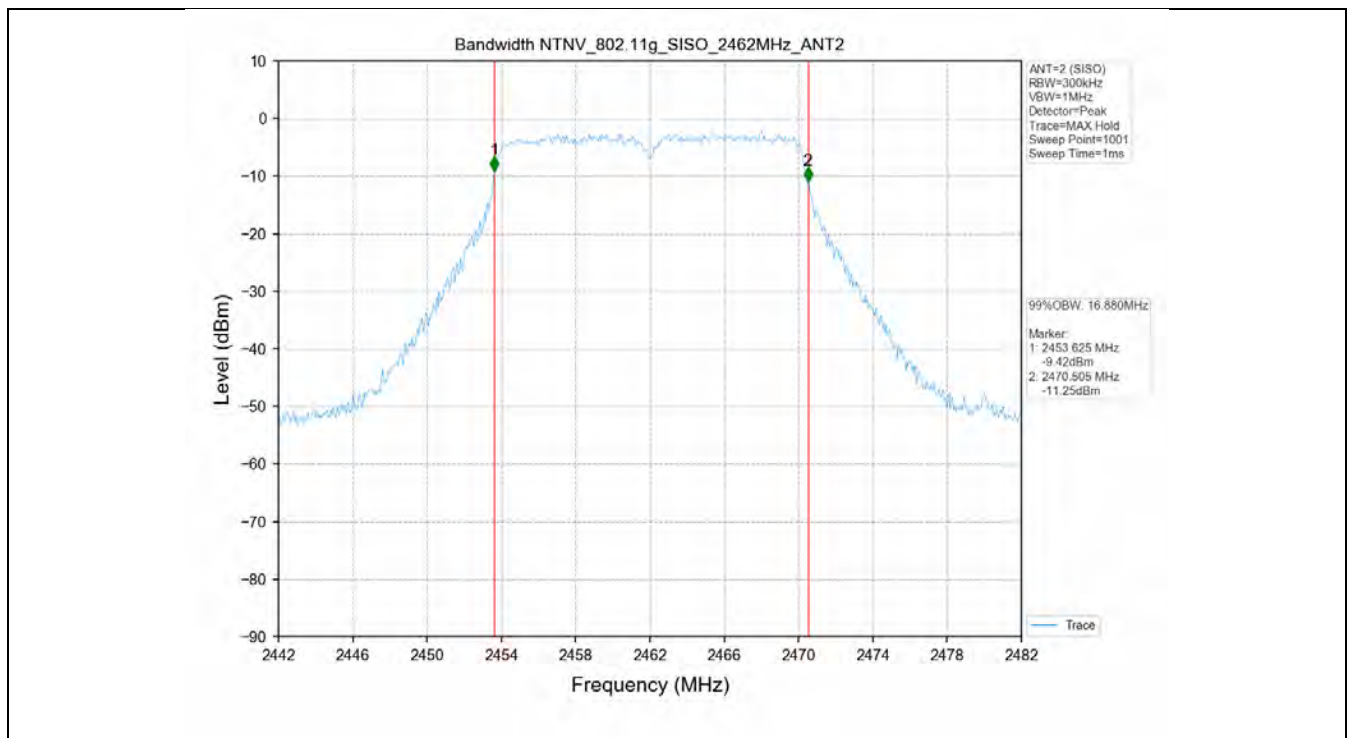
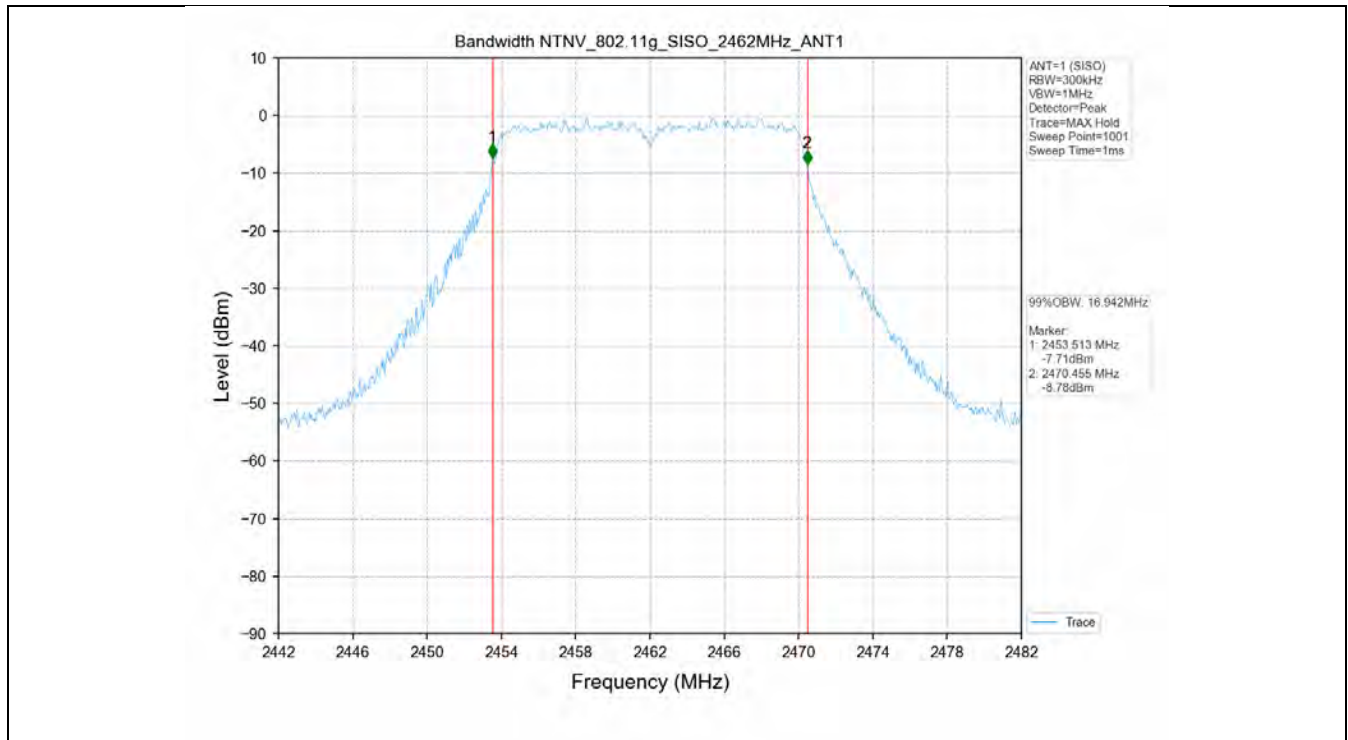


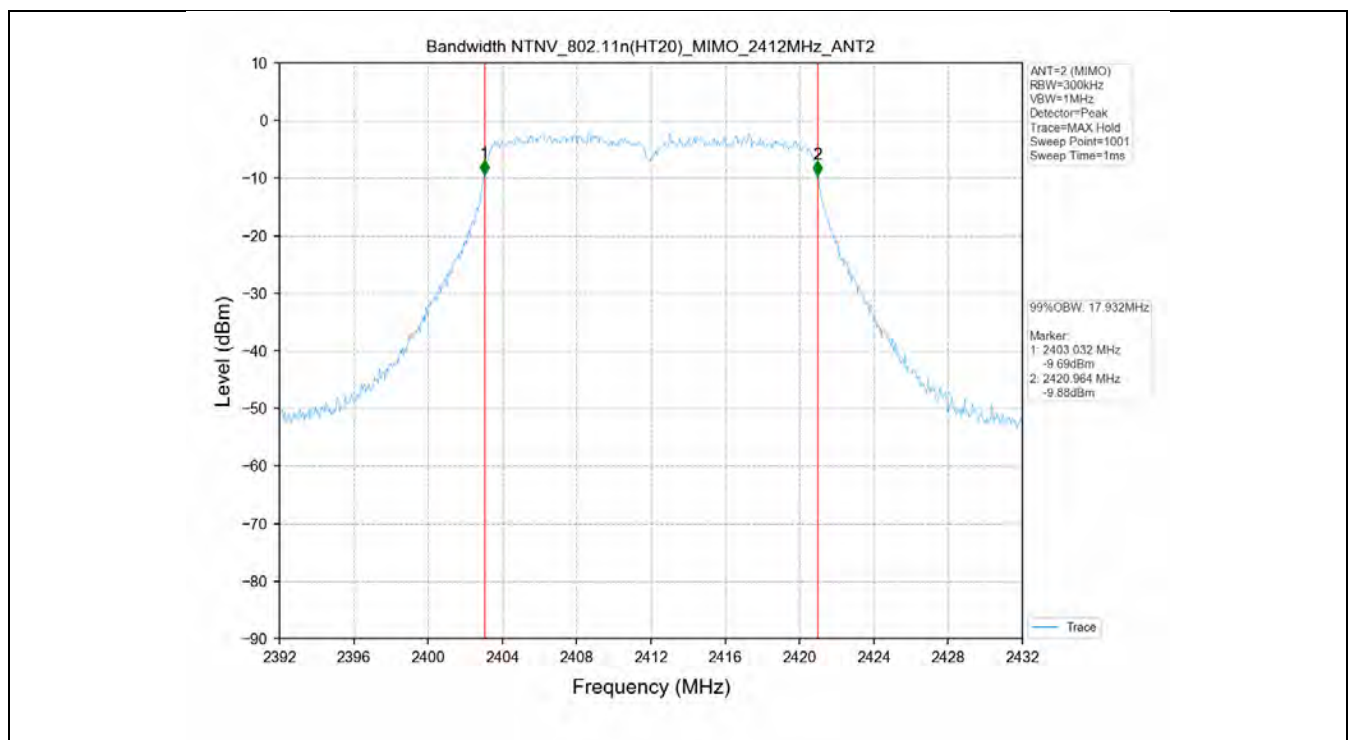
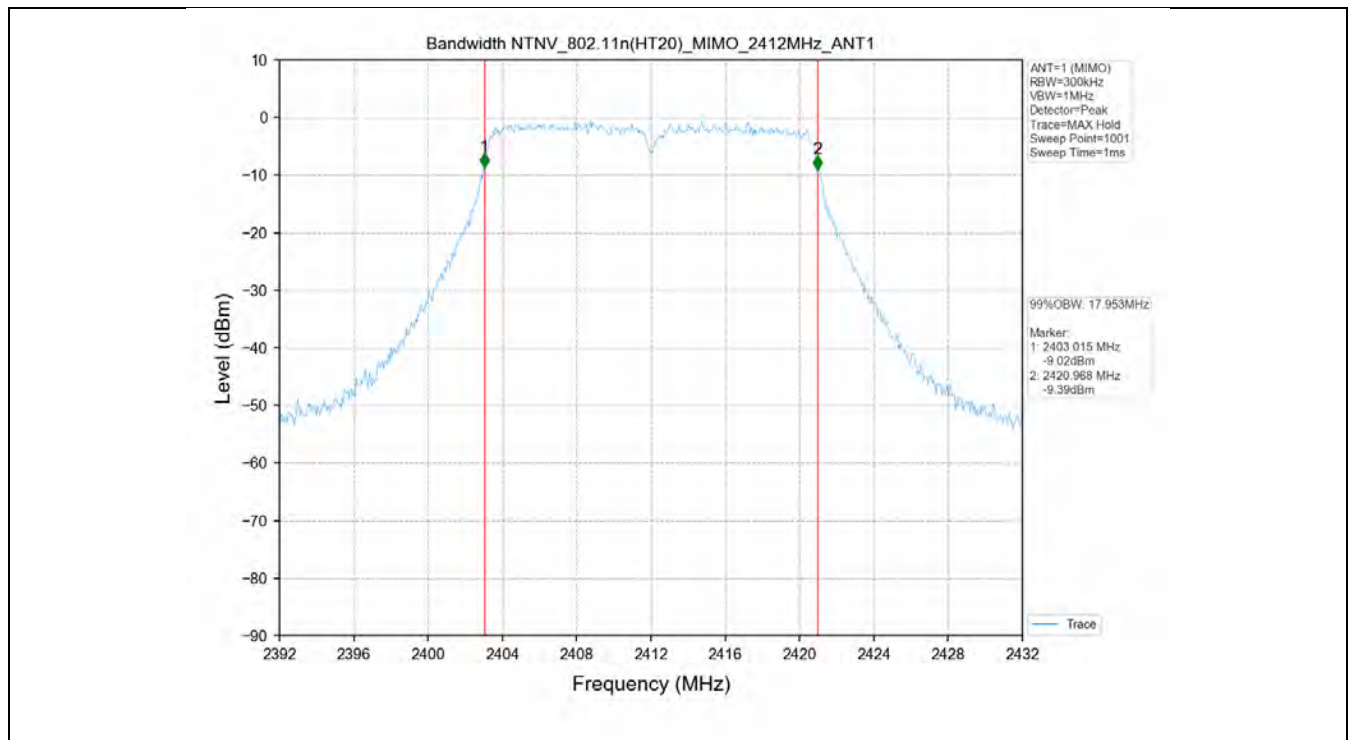


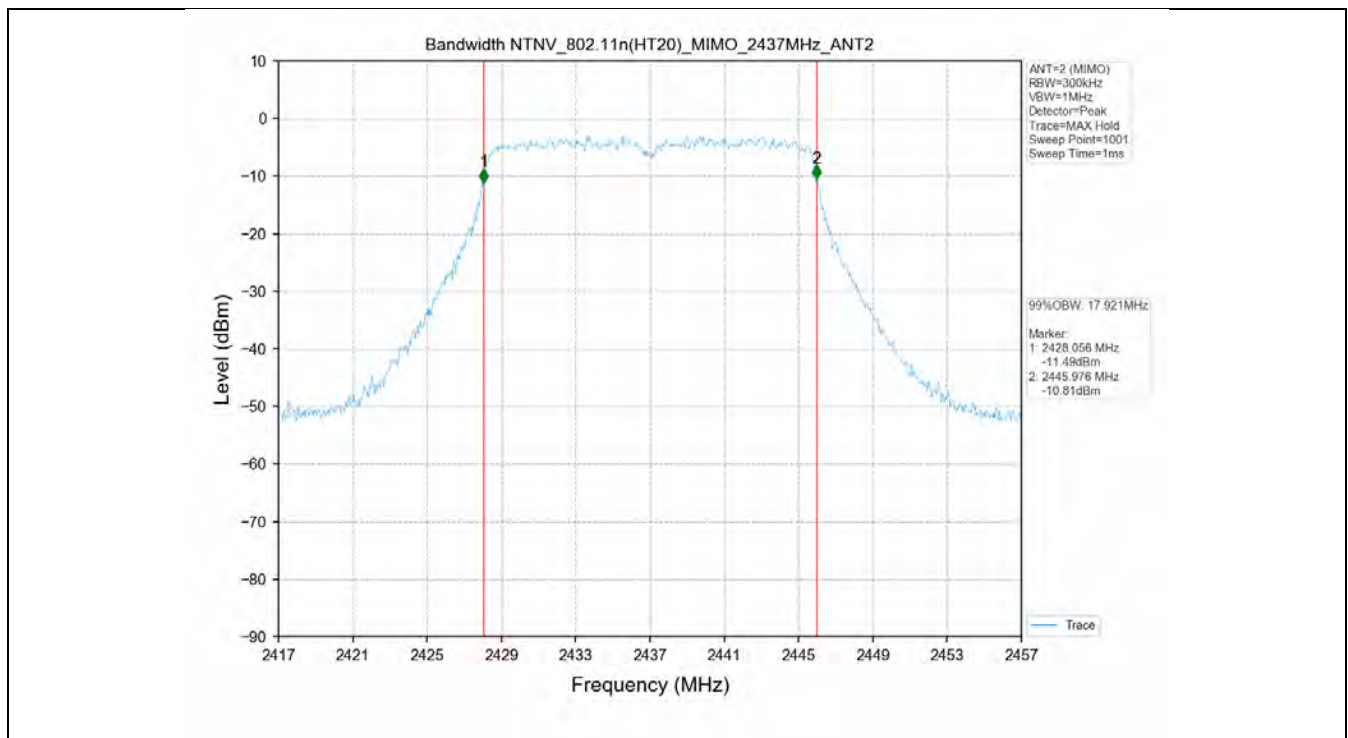
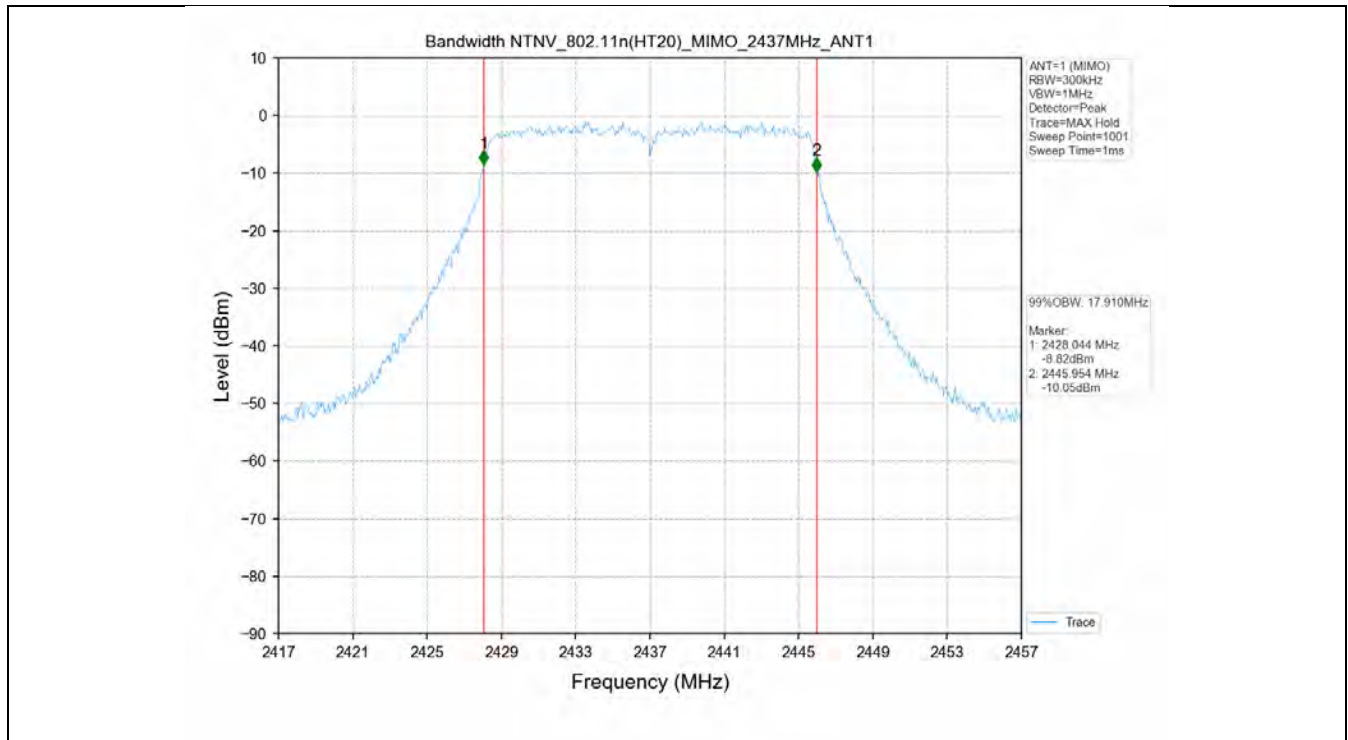


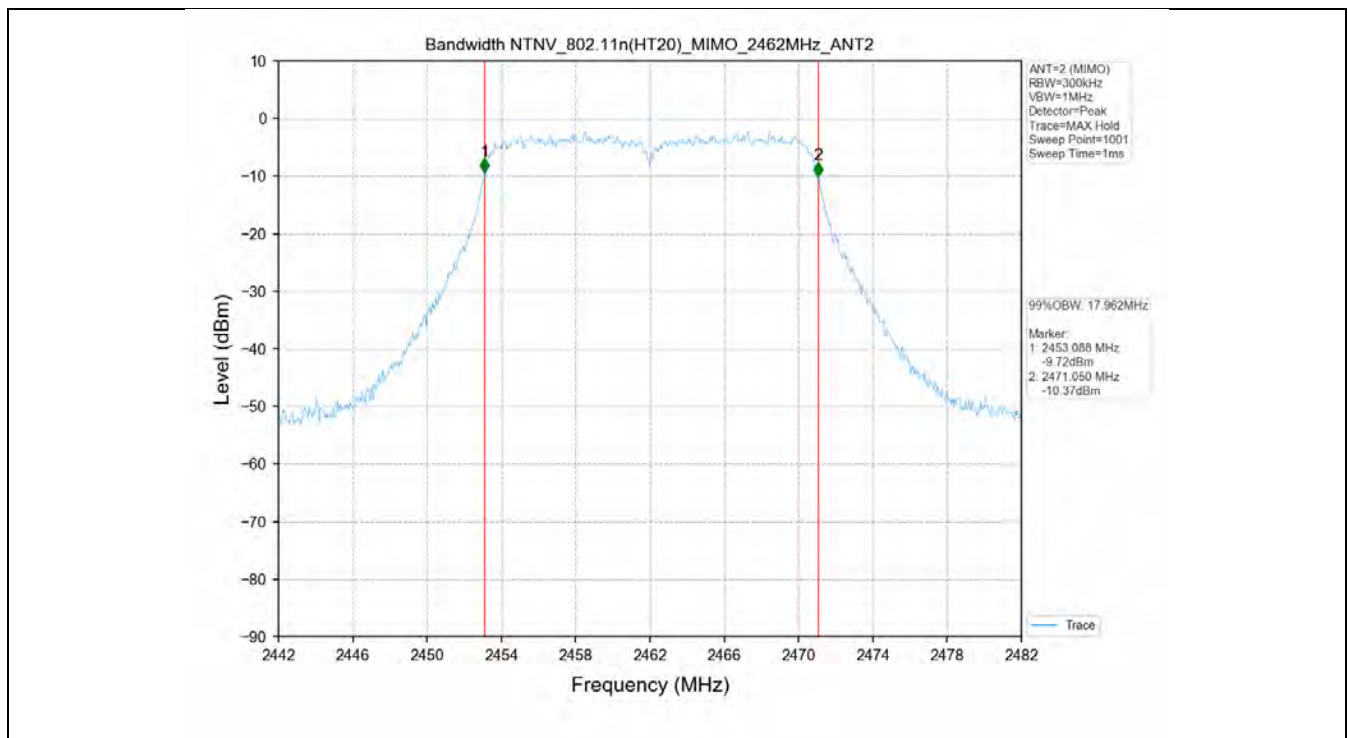
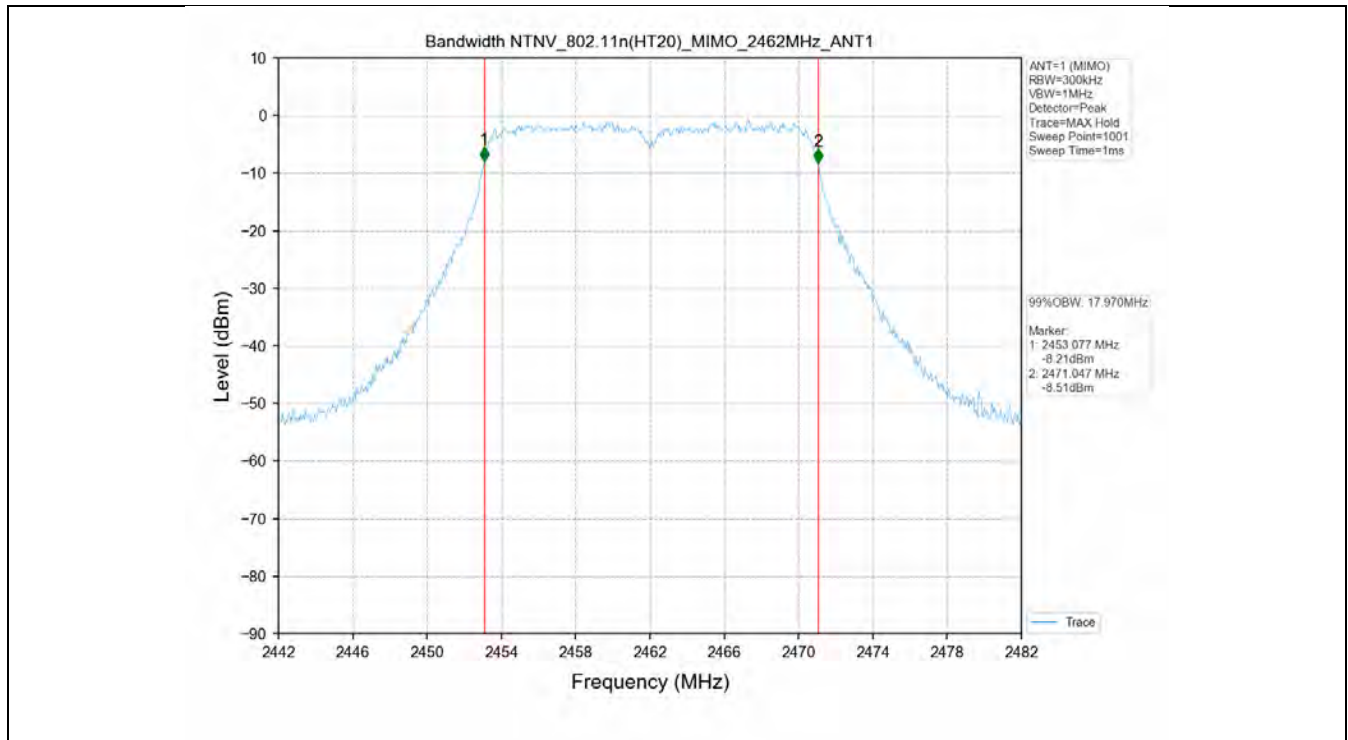


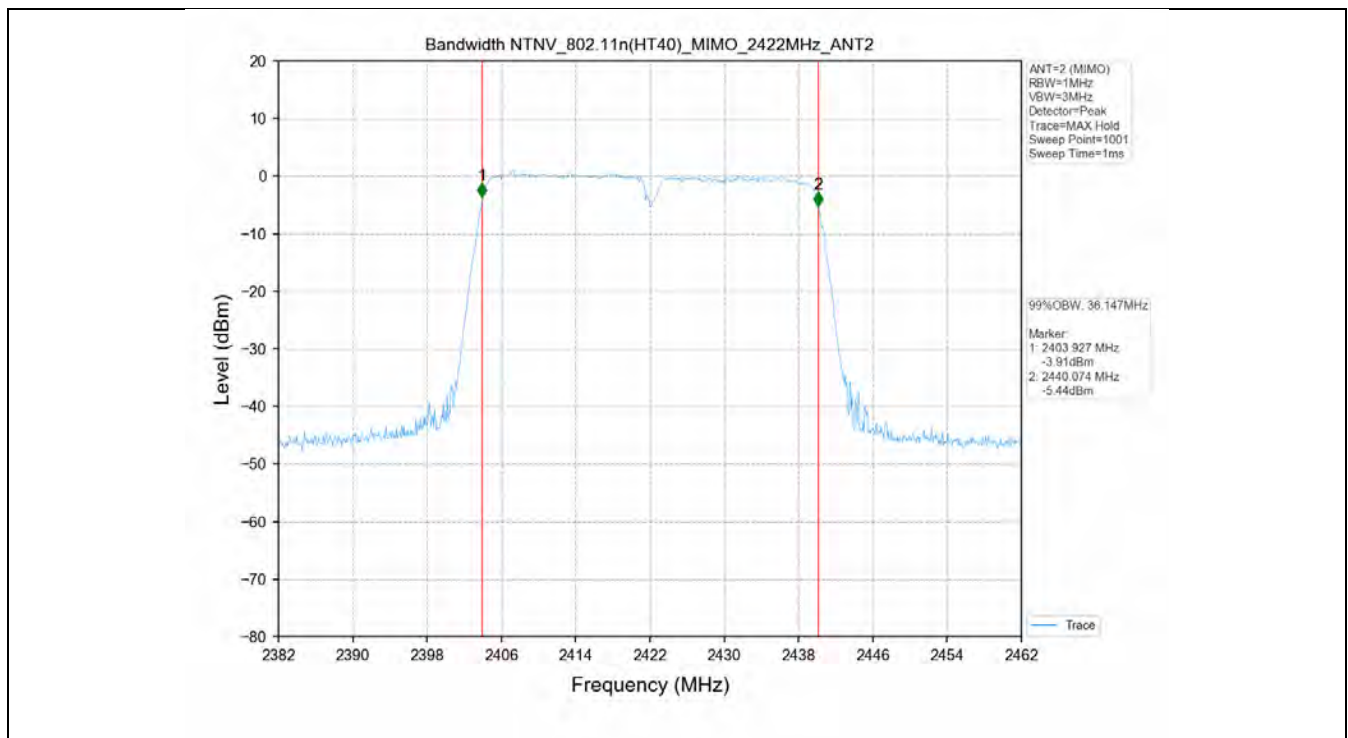
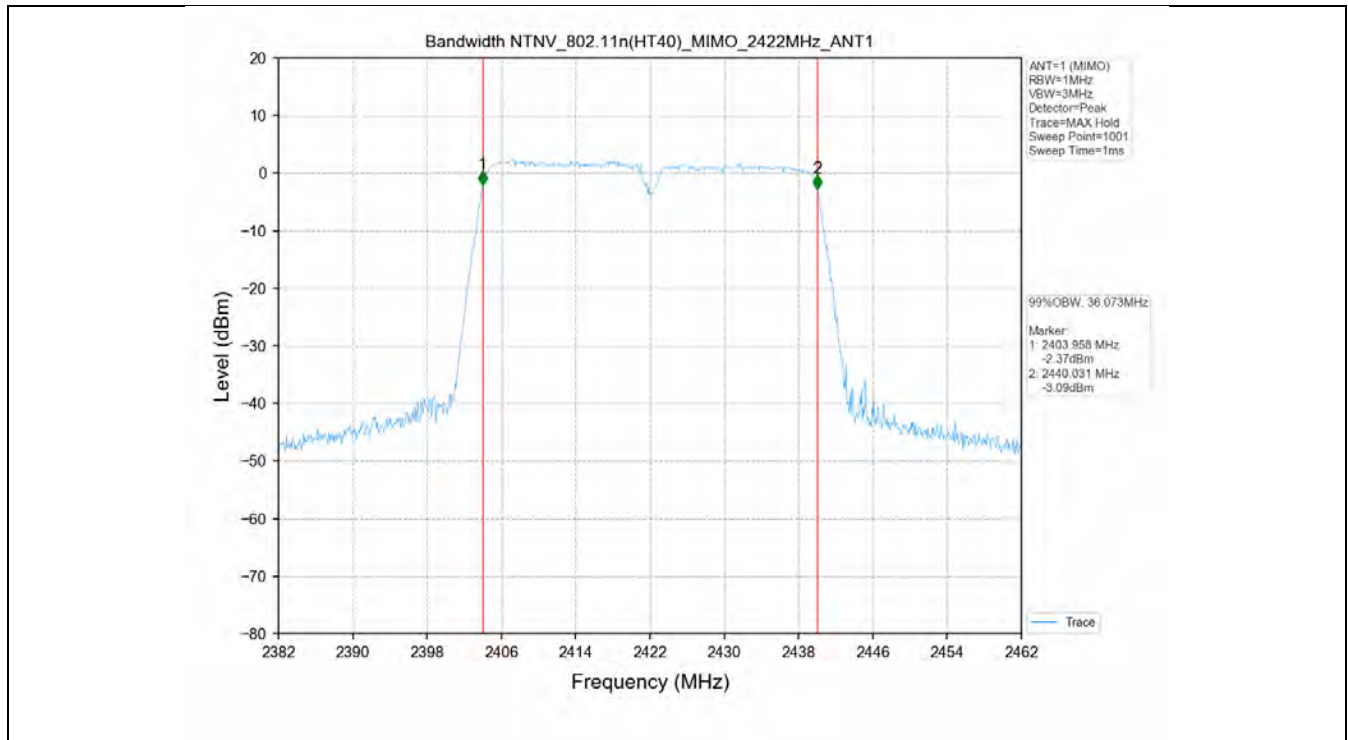


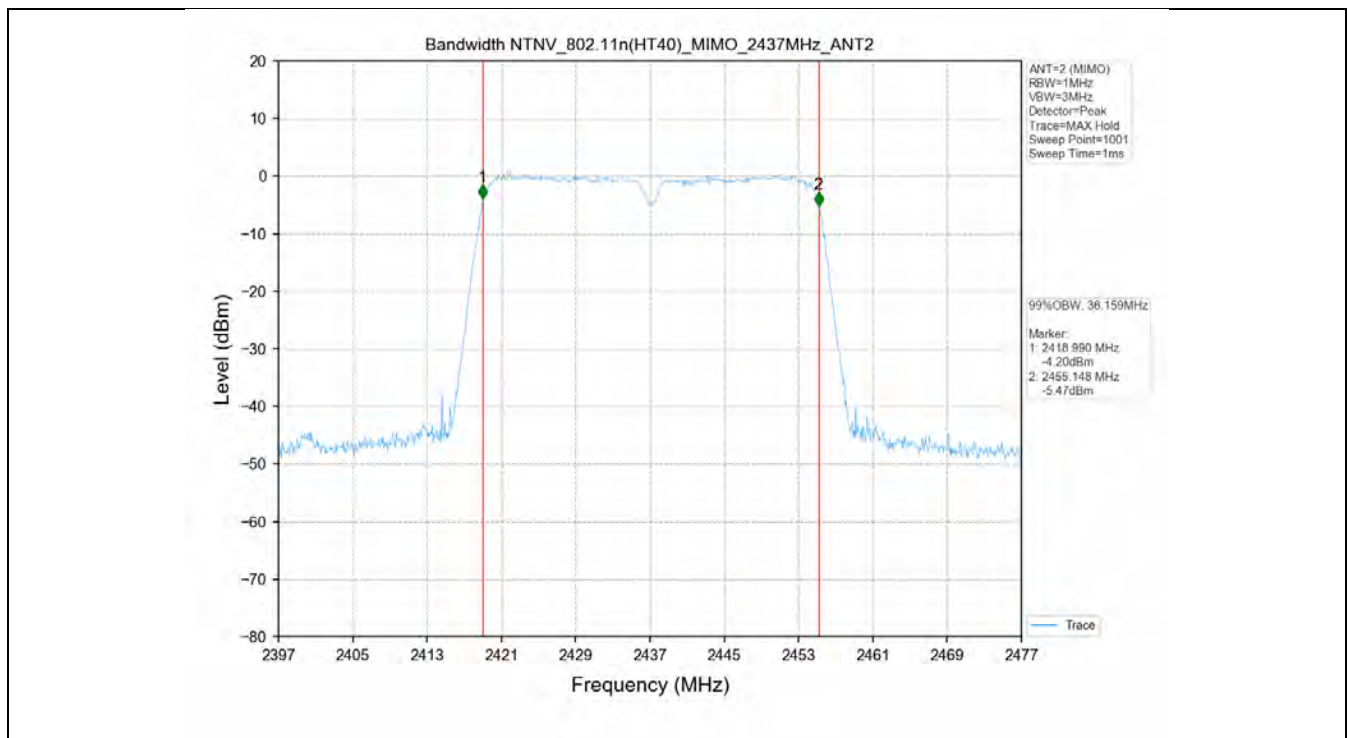
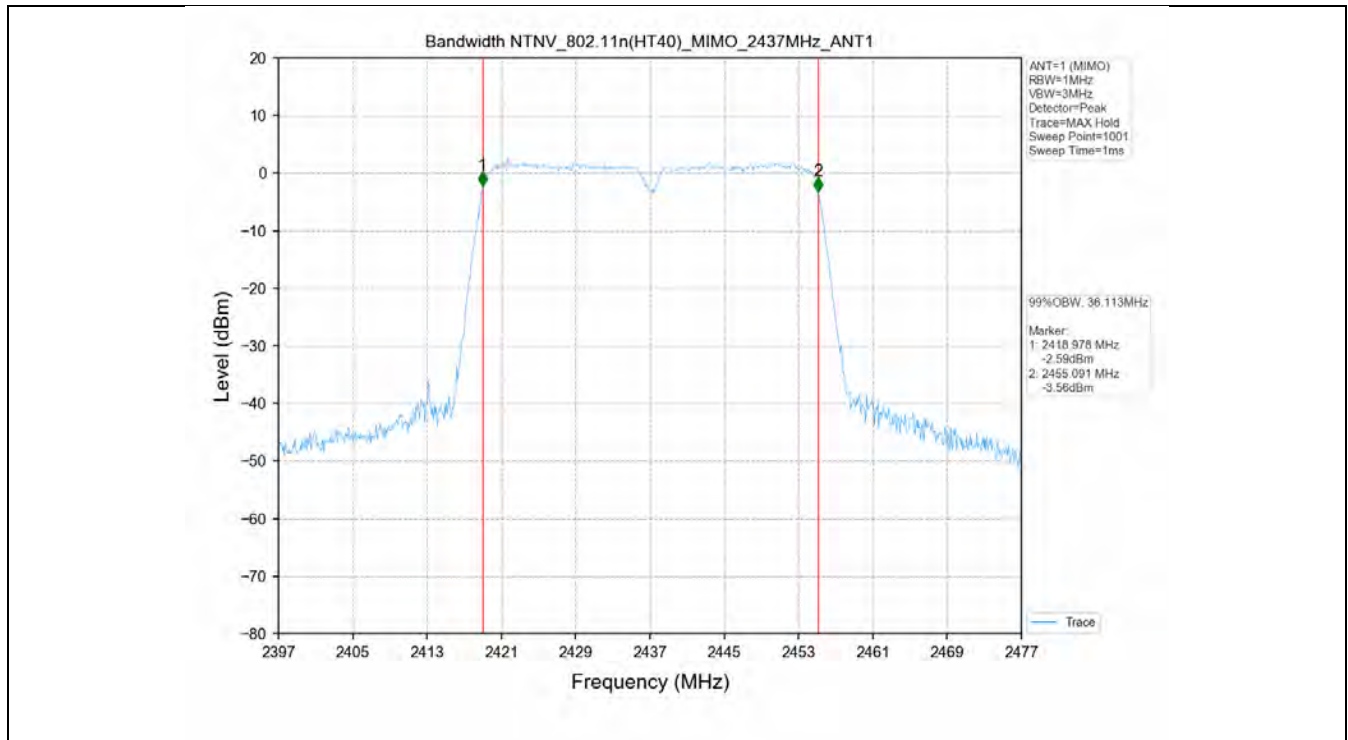


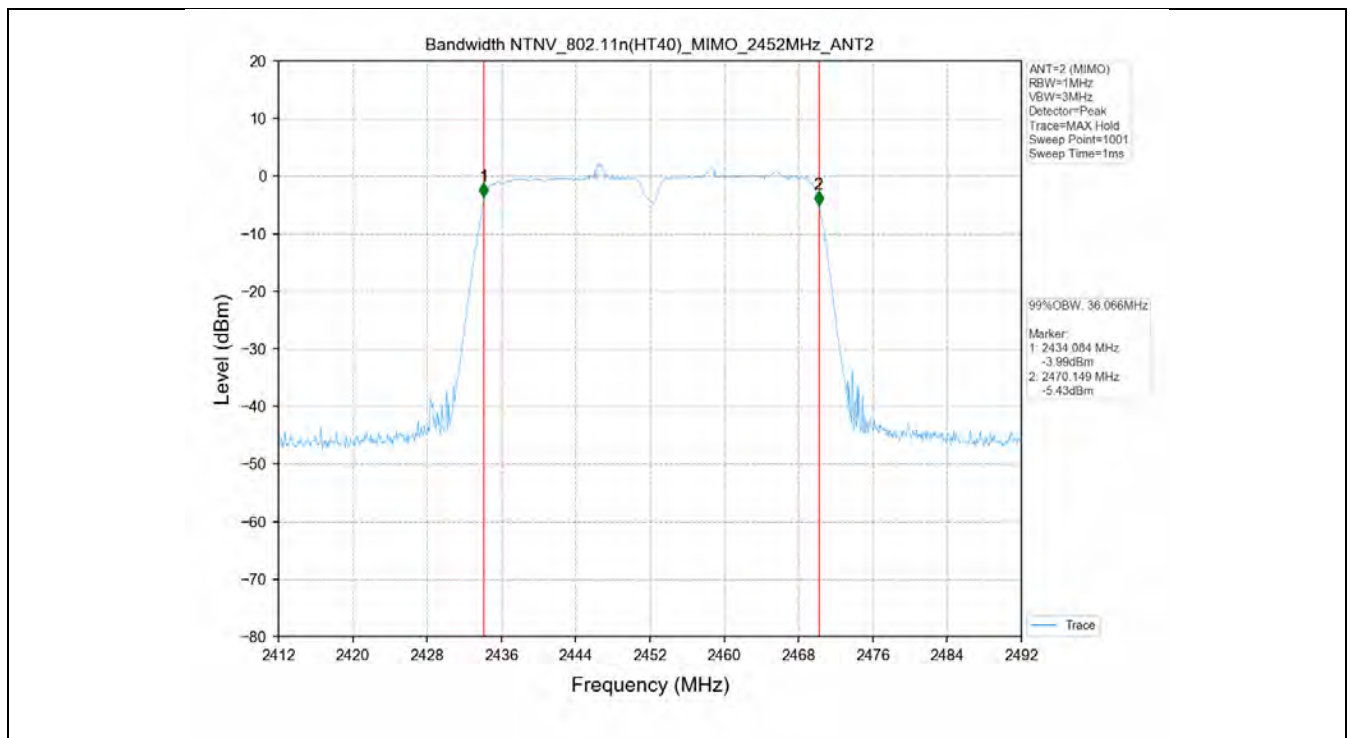
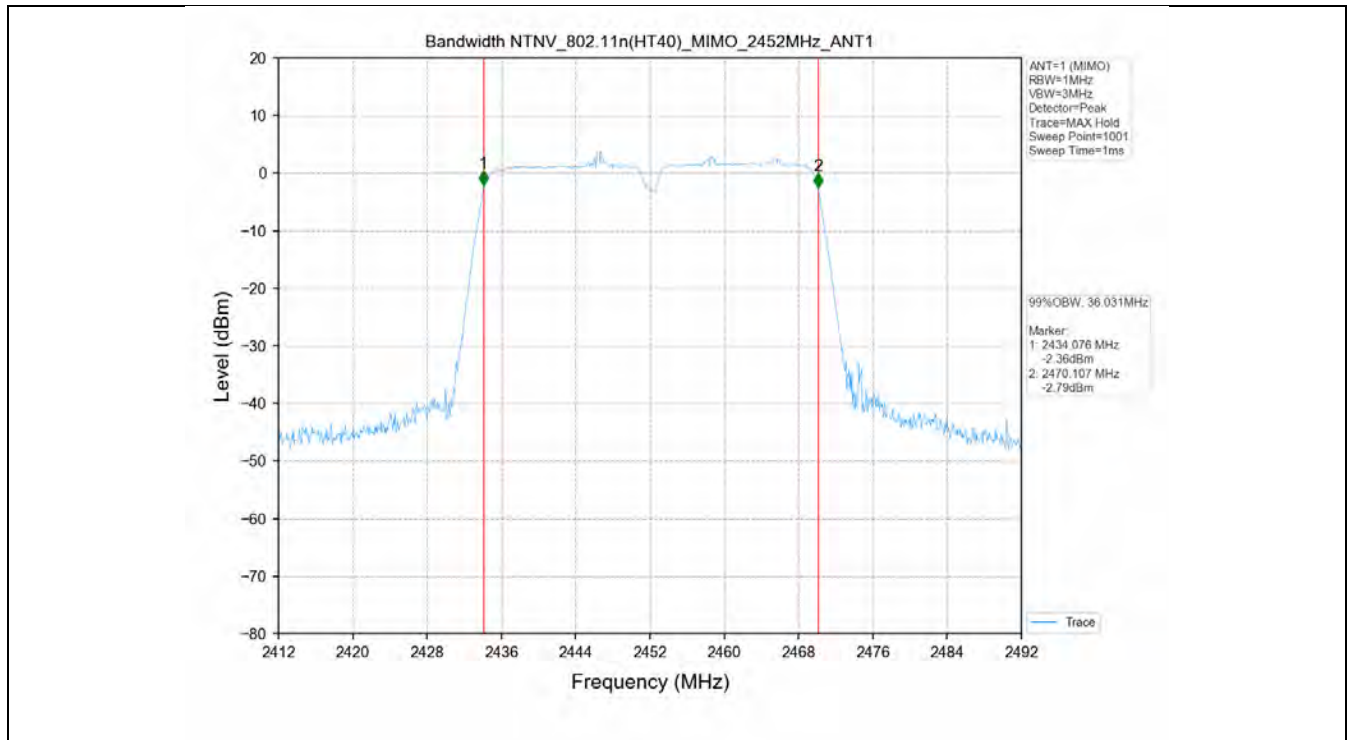












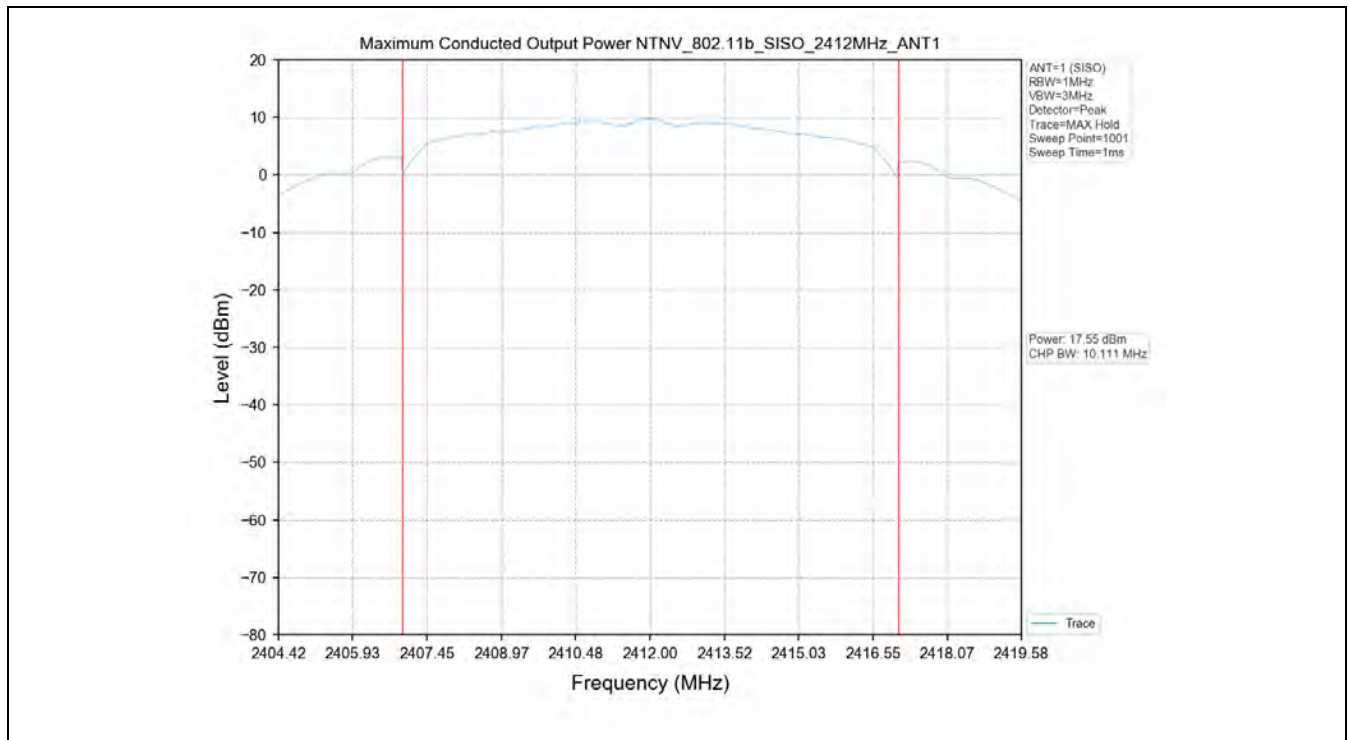


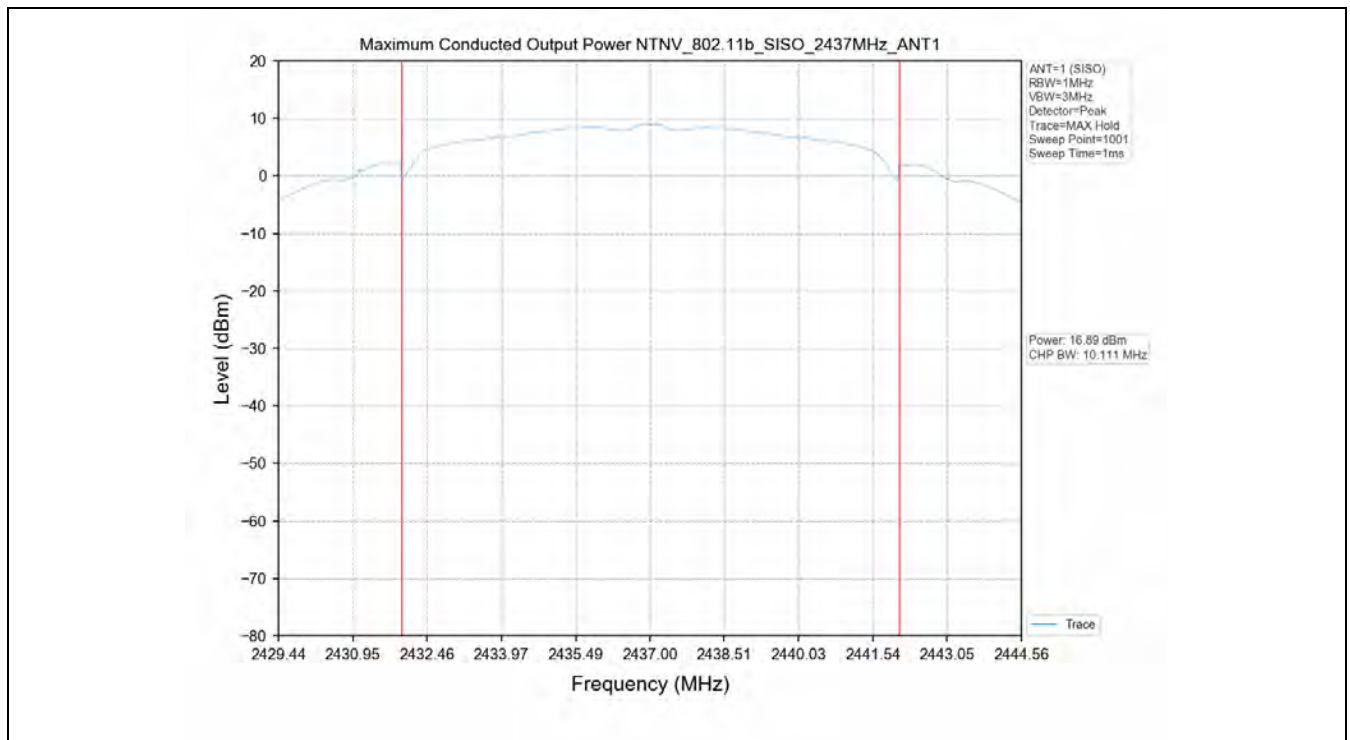
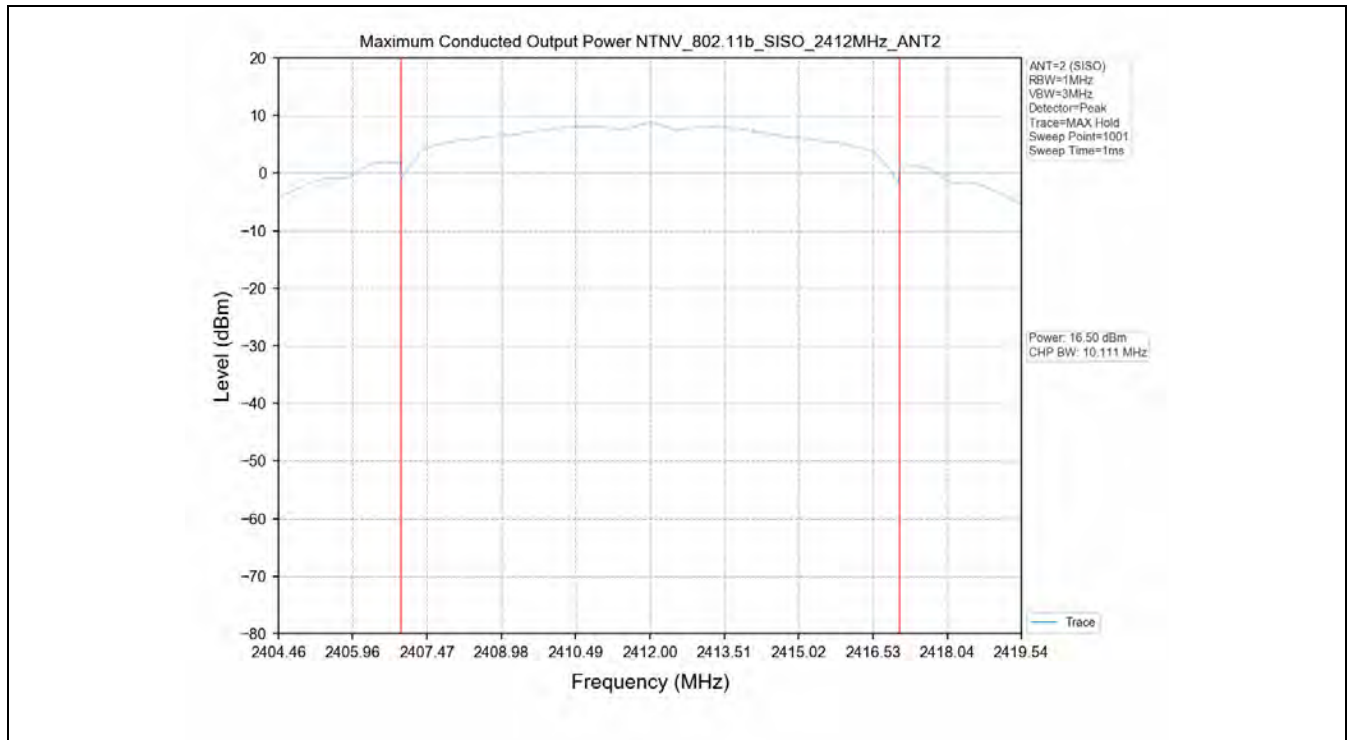
3. Maximum Conducted Output Power

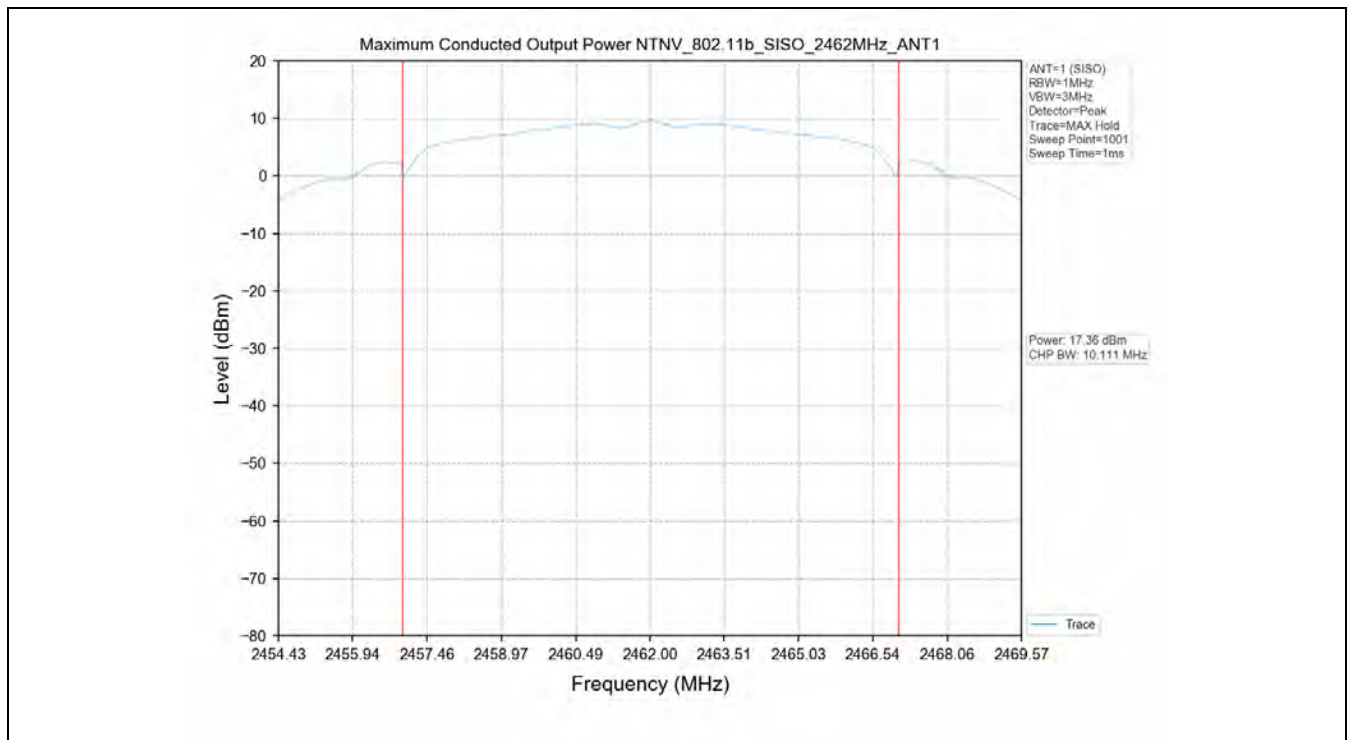
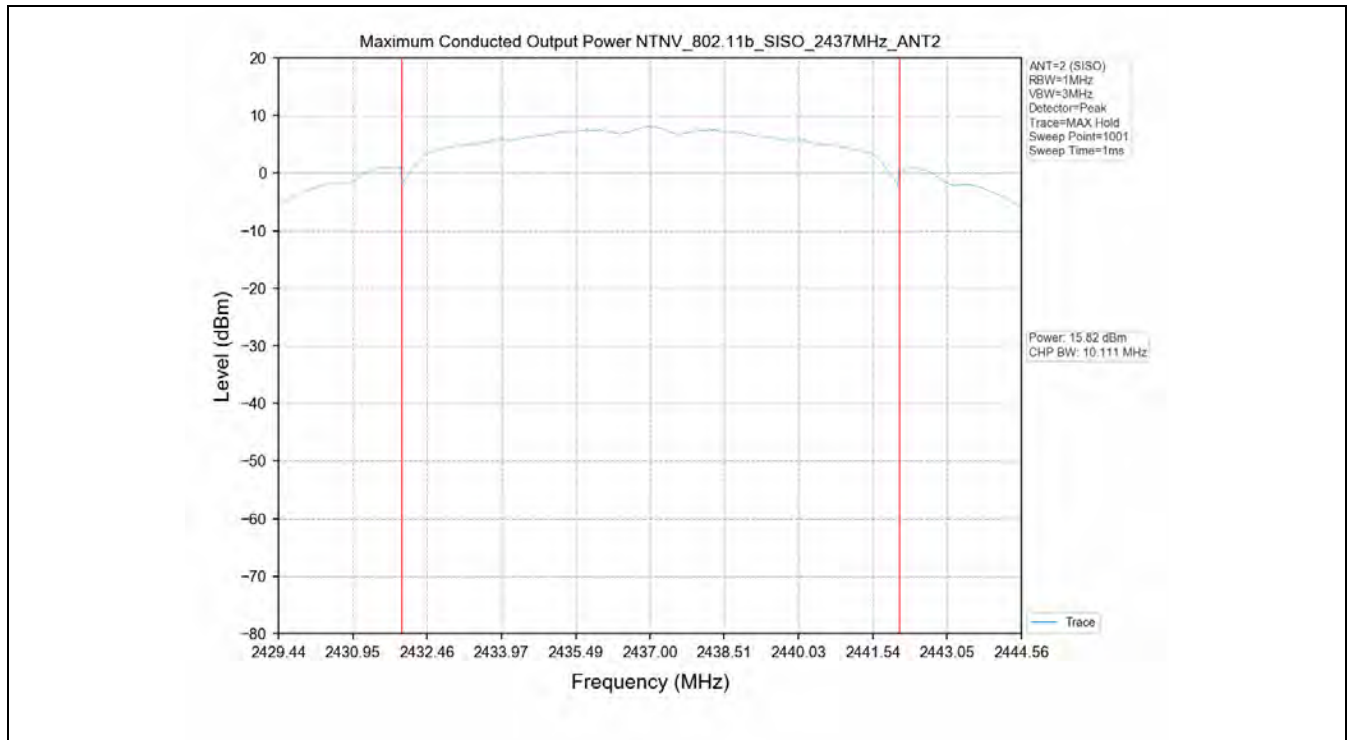
3.1 Test Result

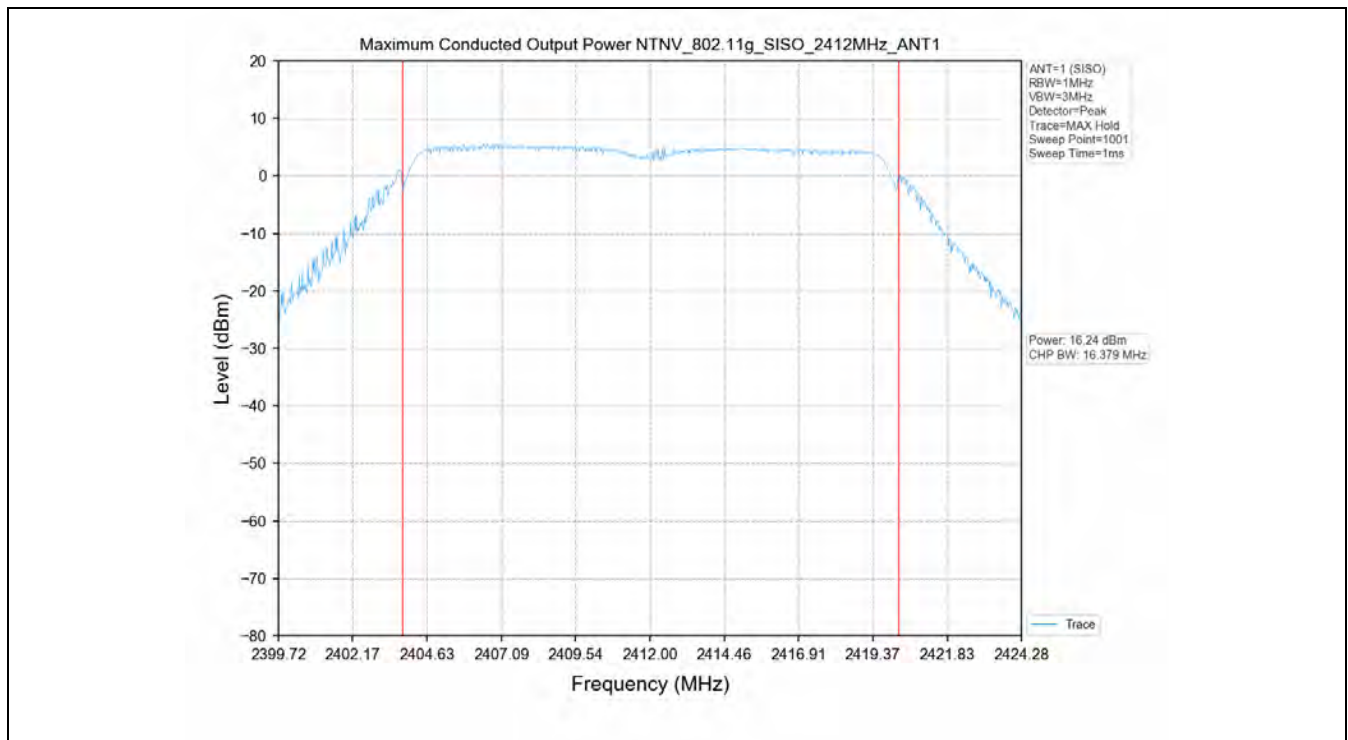
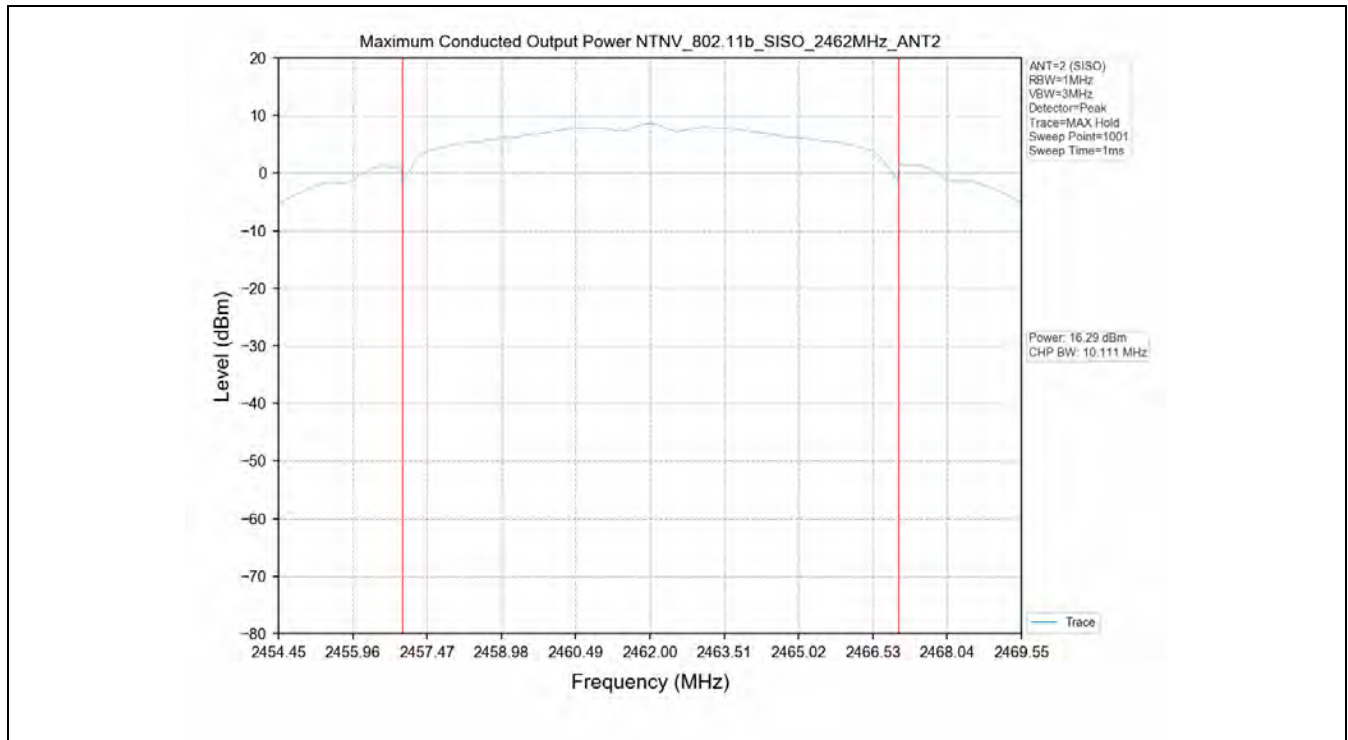
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	17.55	16.50	/	30	PASS
	2437	SISO	16.89	15.82	/	30	PASS
	2462	SISO	17.36	16.29	/	30	PASS
802.11g	2412	SISO	16.24	14.56	/	30	PASS
	2437	SISO	15.53	13.90	/	30	PASS
	2462	SISO	15.99	14.29	/	30	PASS
802.11n(HT20)	2412	MIMO	16.18	14.57	18.46	30	PASS
	2437	MIMO	15.50	13.81	17.75	30	PASS
	2462	MIMO	15.92	14.28	18.19	30	PASS
802.11n(HT40)	2422	MIMO	16.23	14.67	18.53	30	PASS
	2437	MIMO	16.02	14.38	18.29	30	PASS
	2452	MIMO	16.24	14.67	18.54	30	PASS

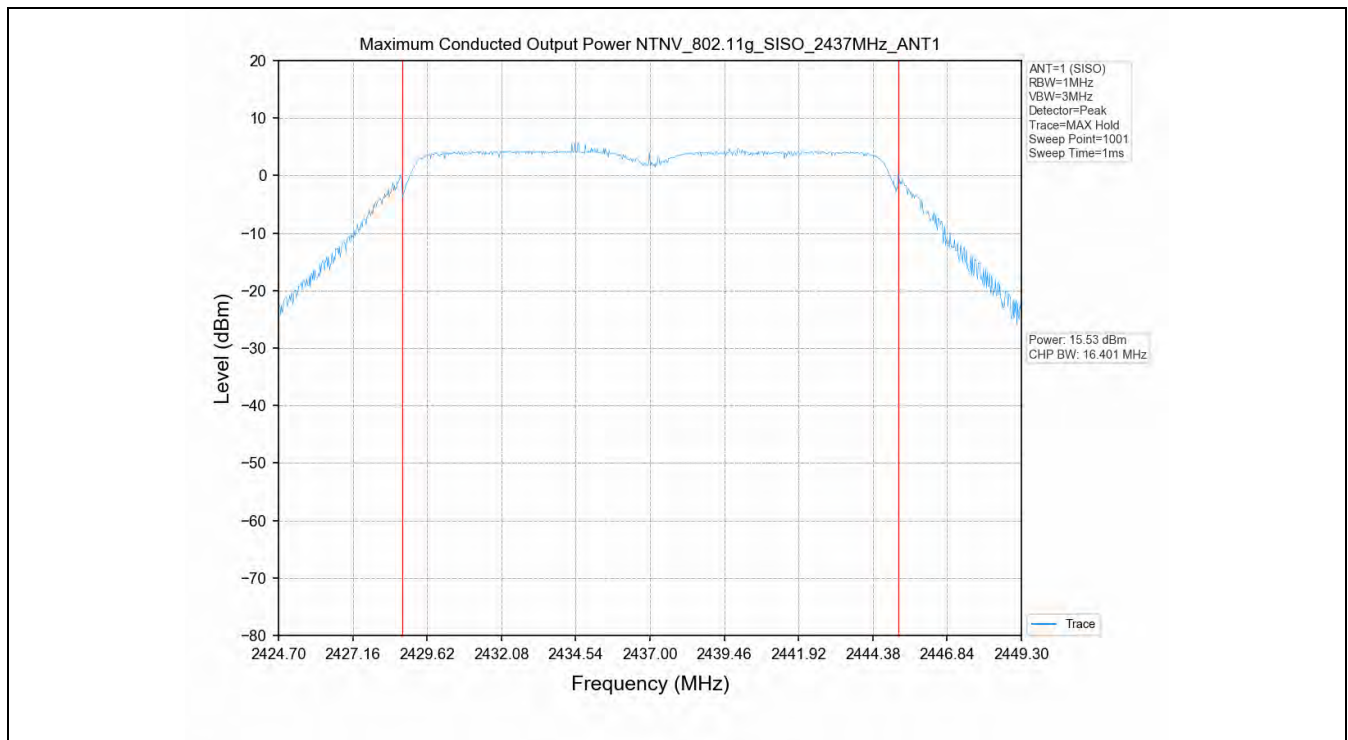
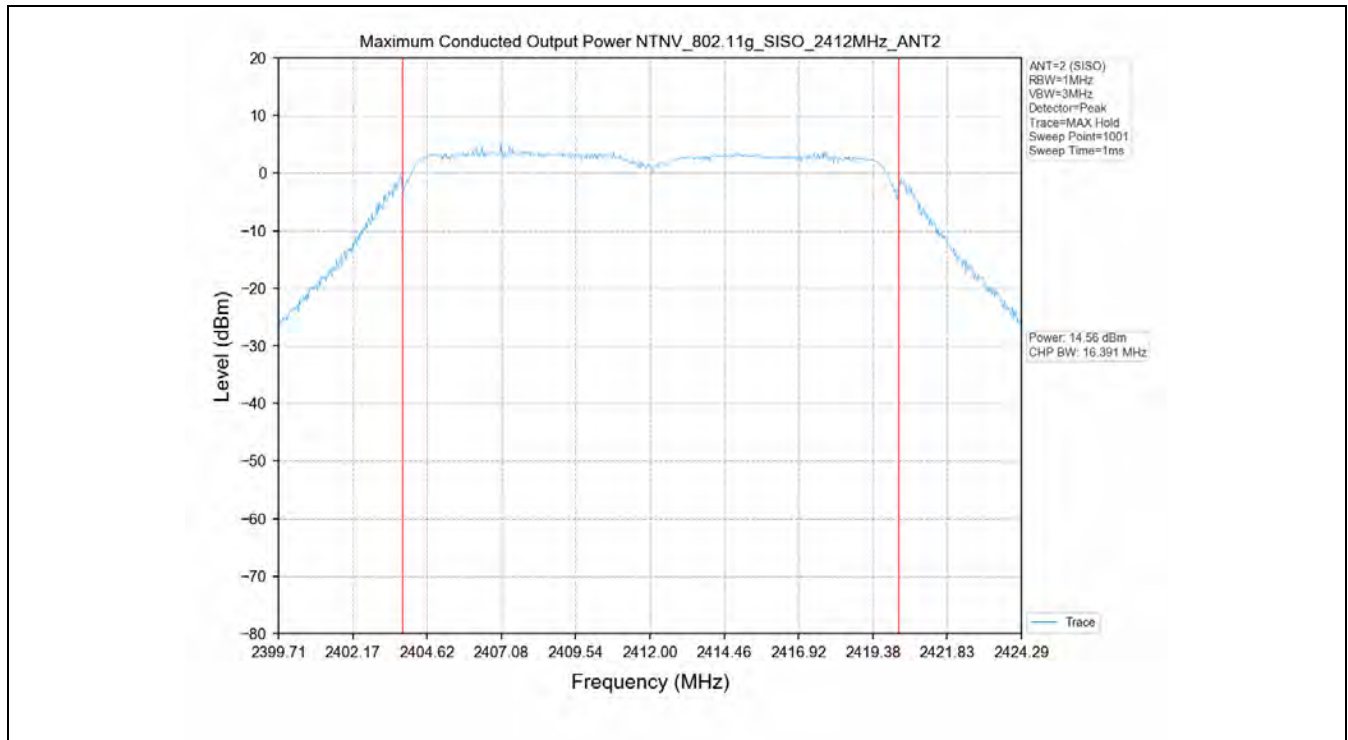
3.2 Test Graph

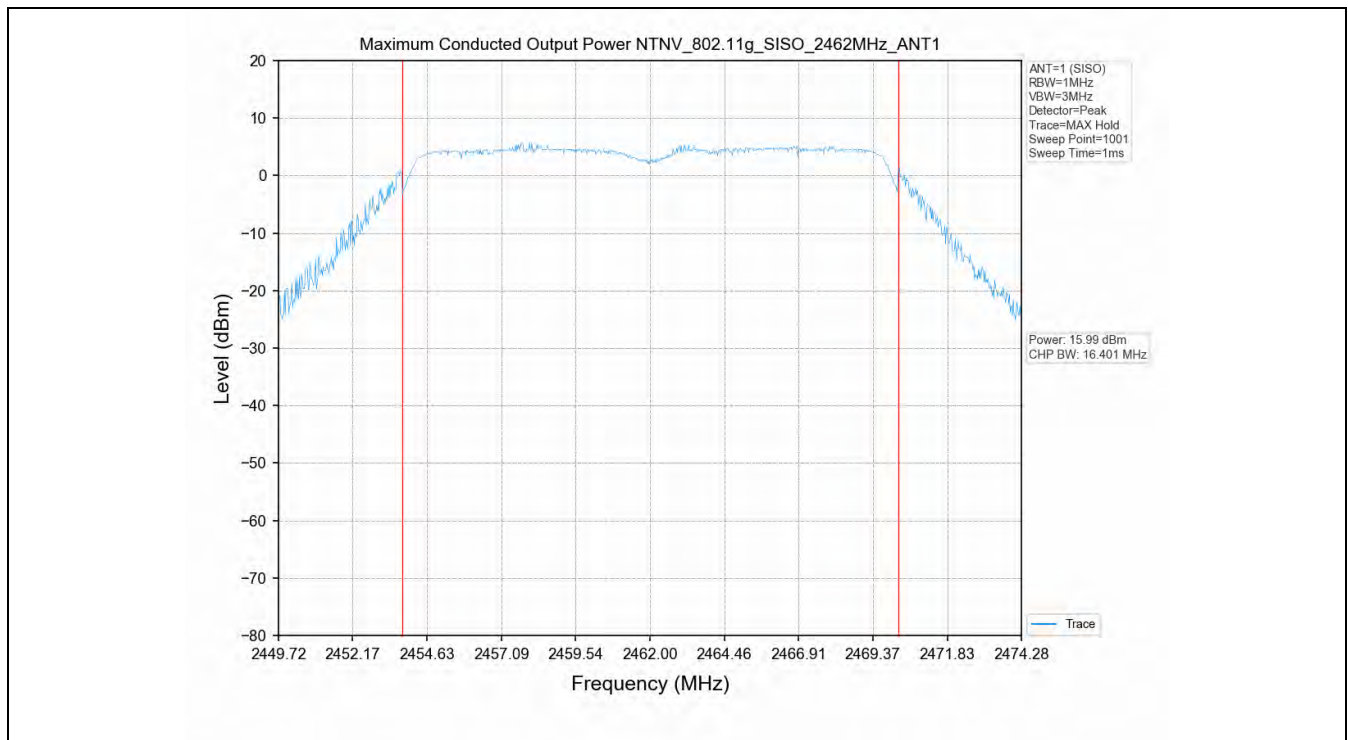
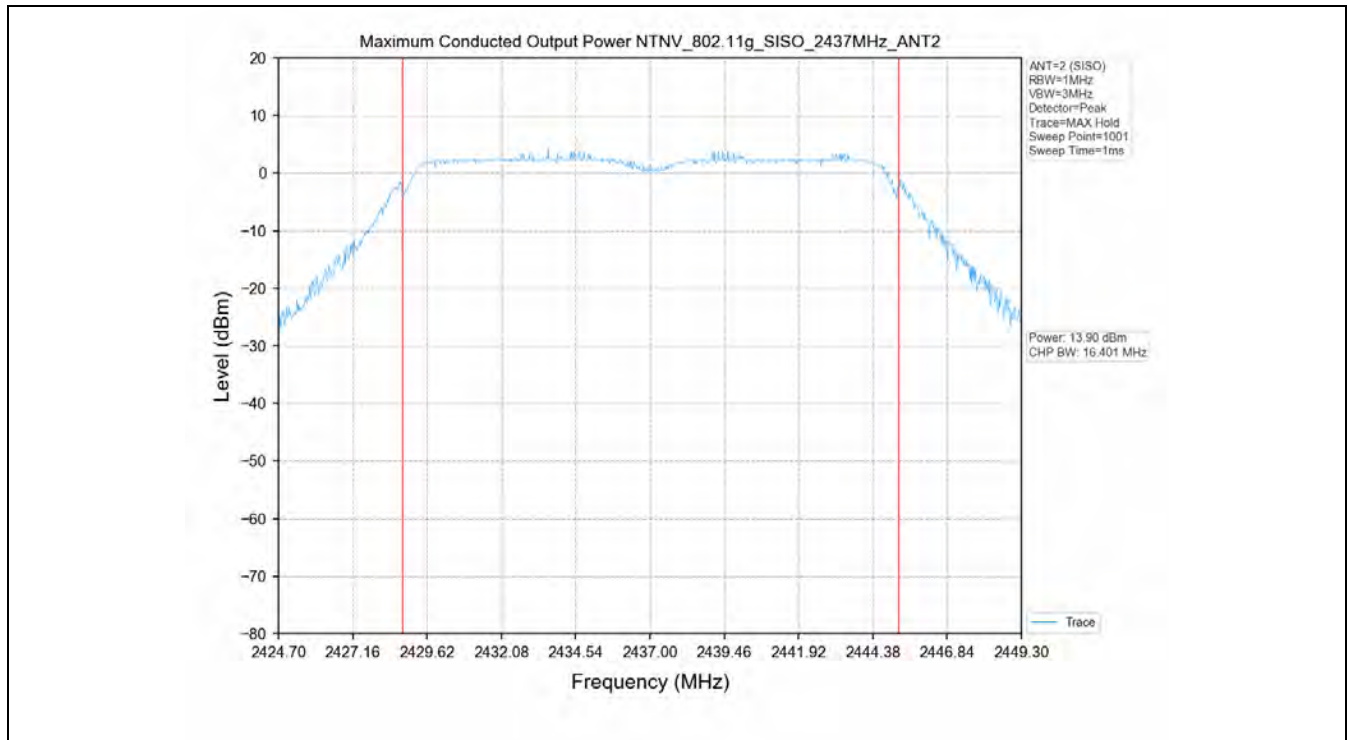


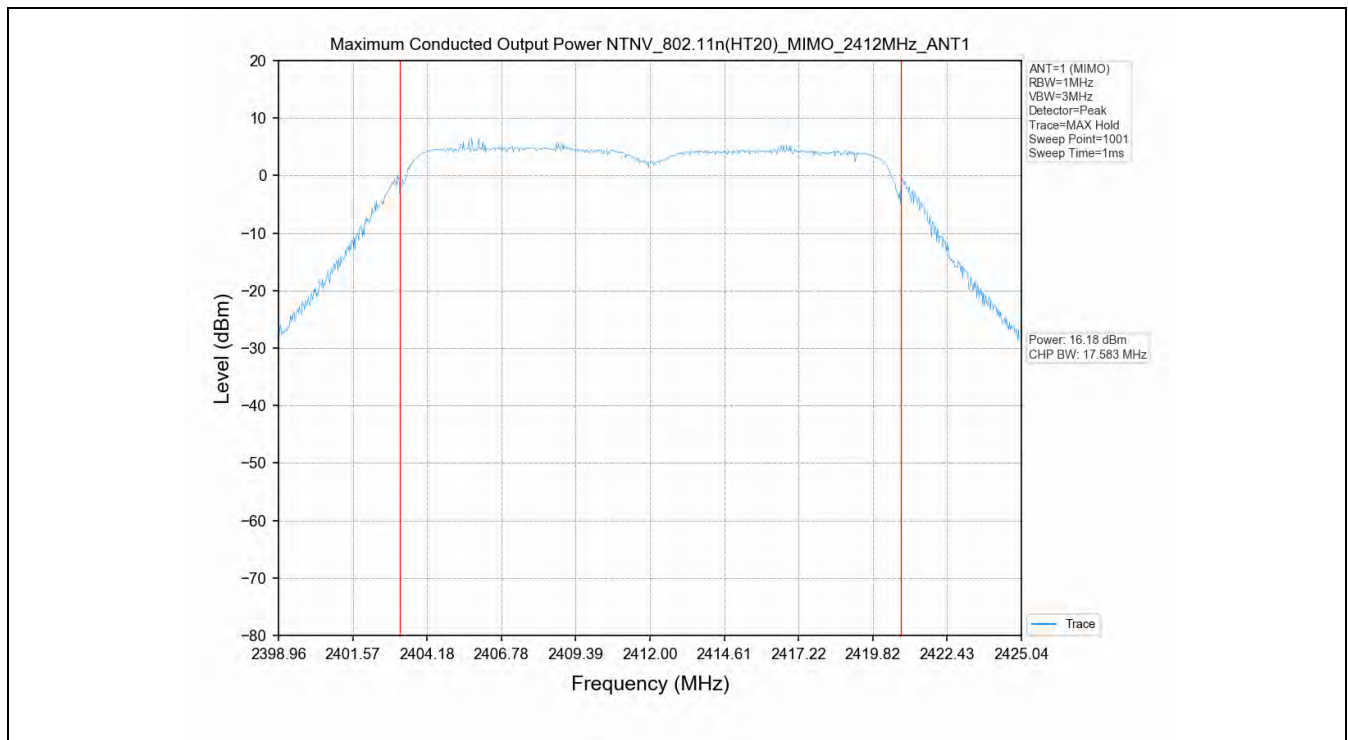
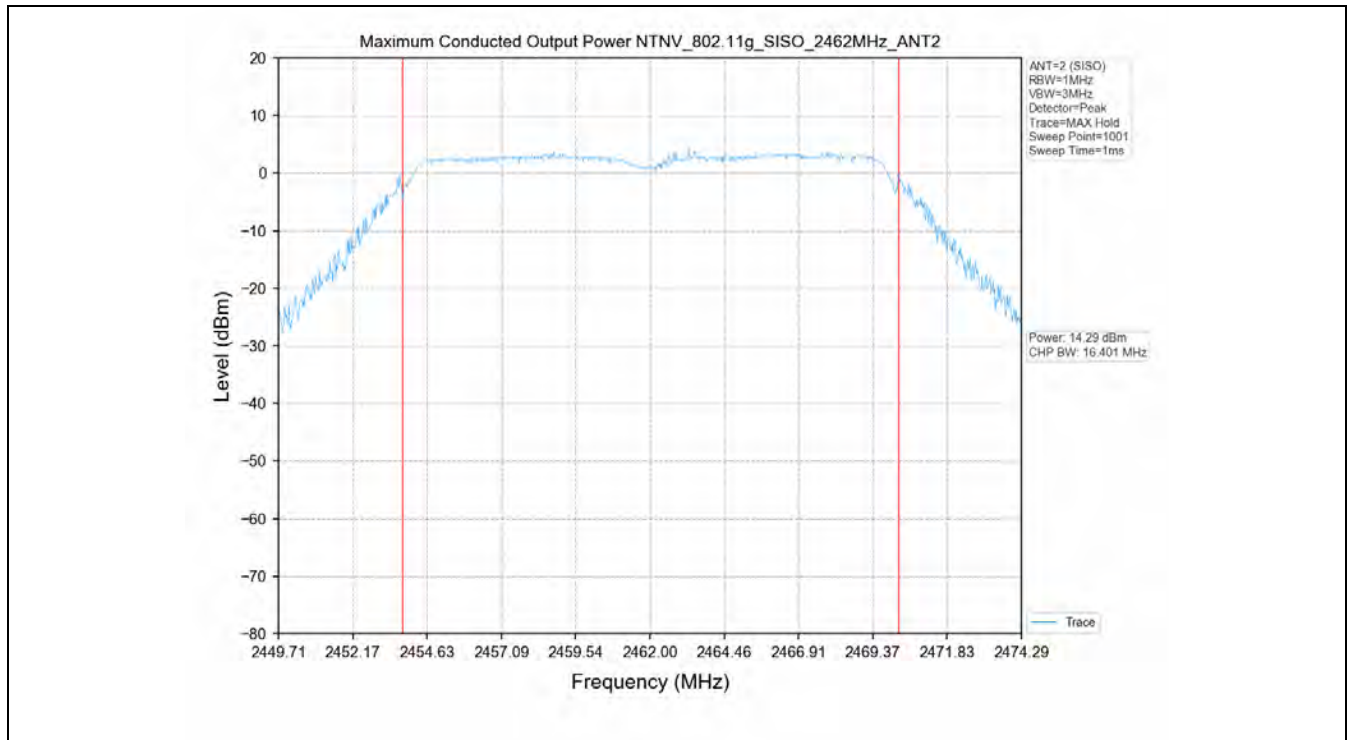


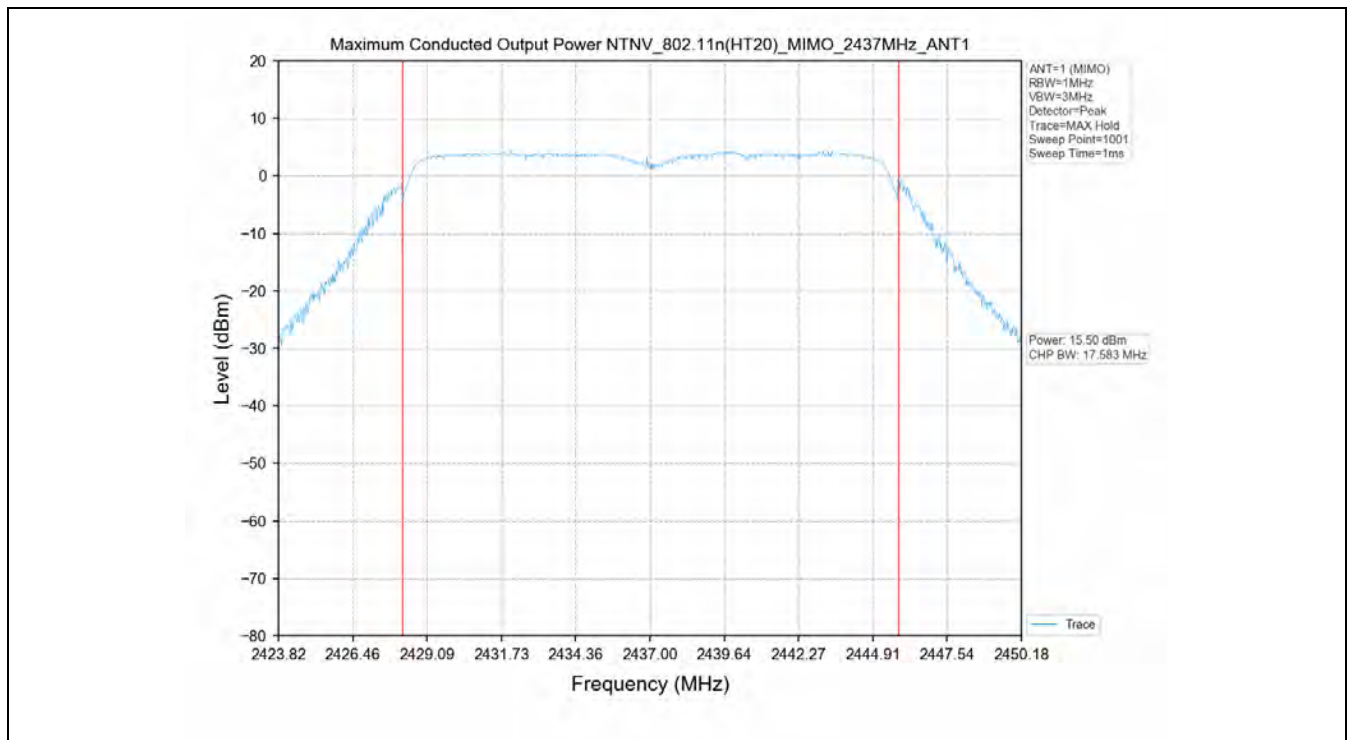
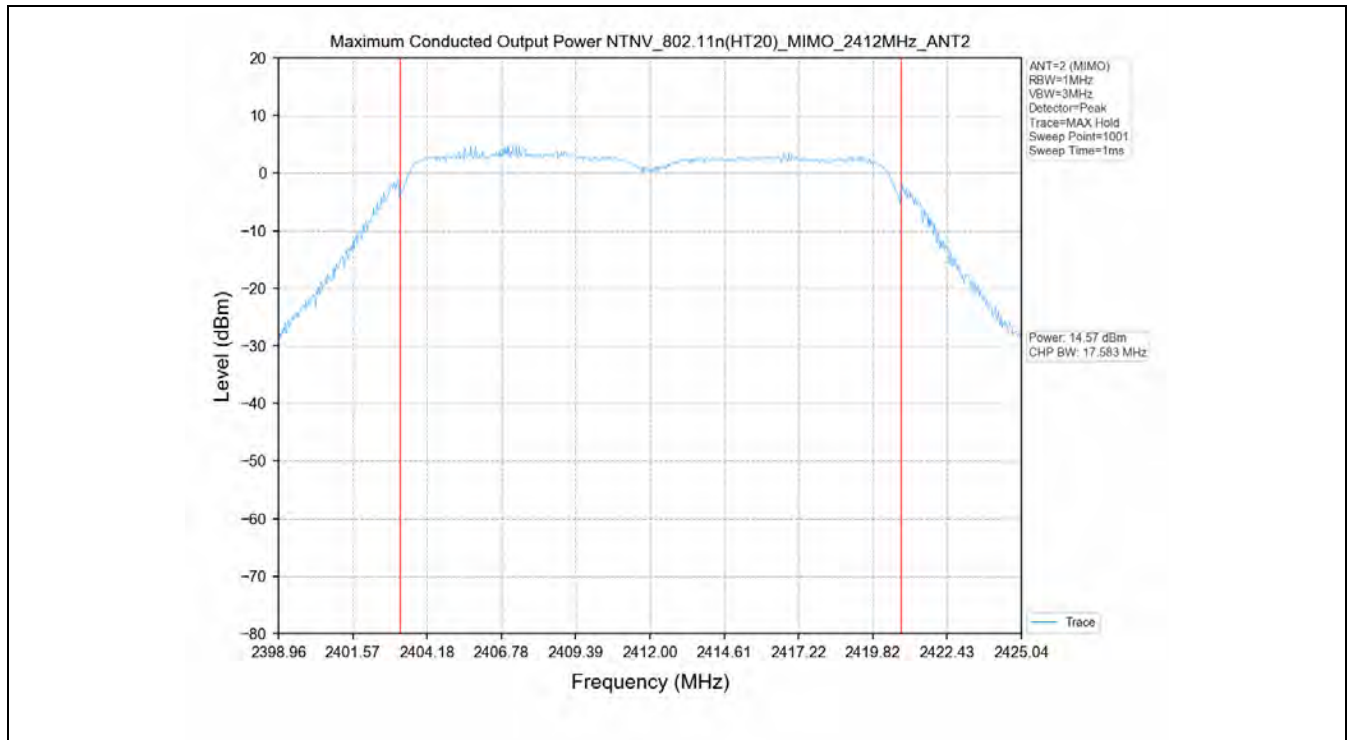


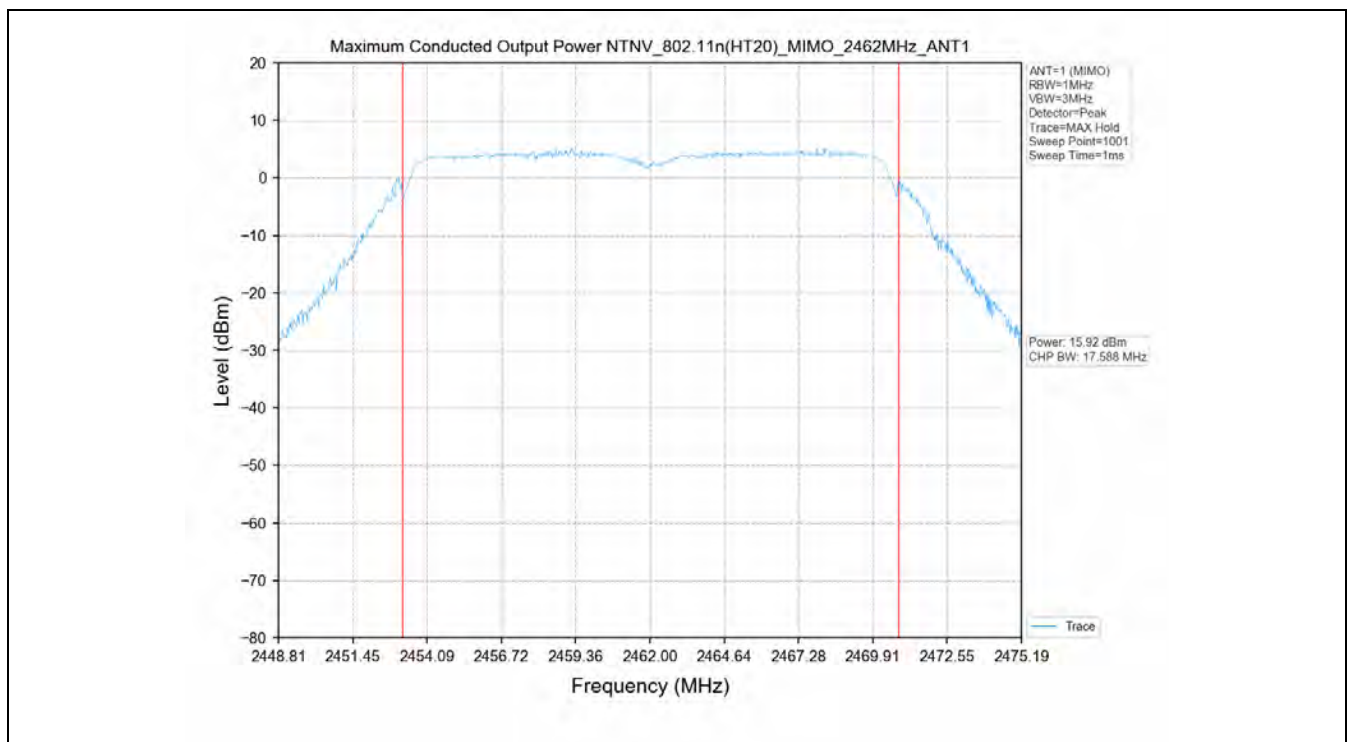
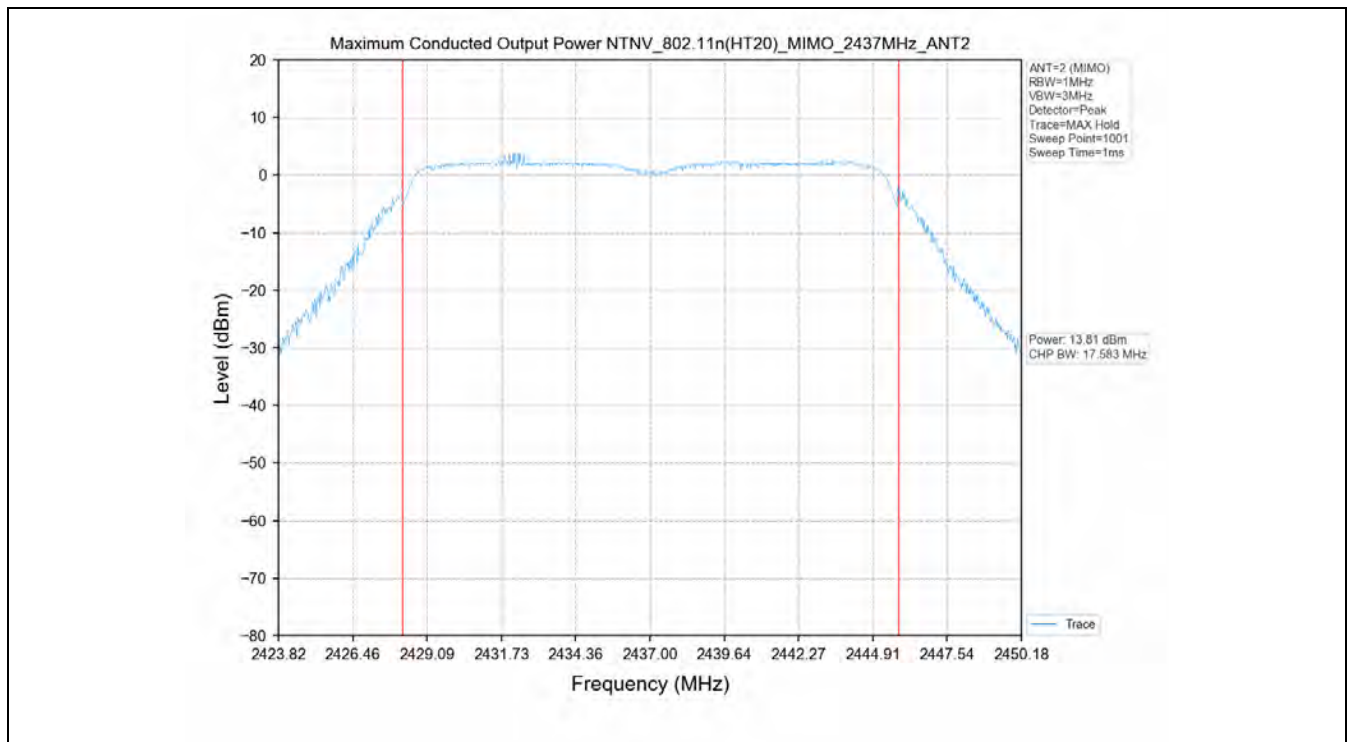


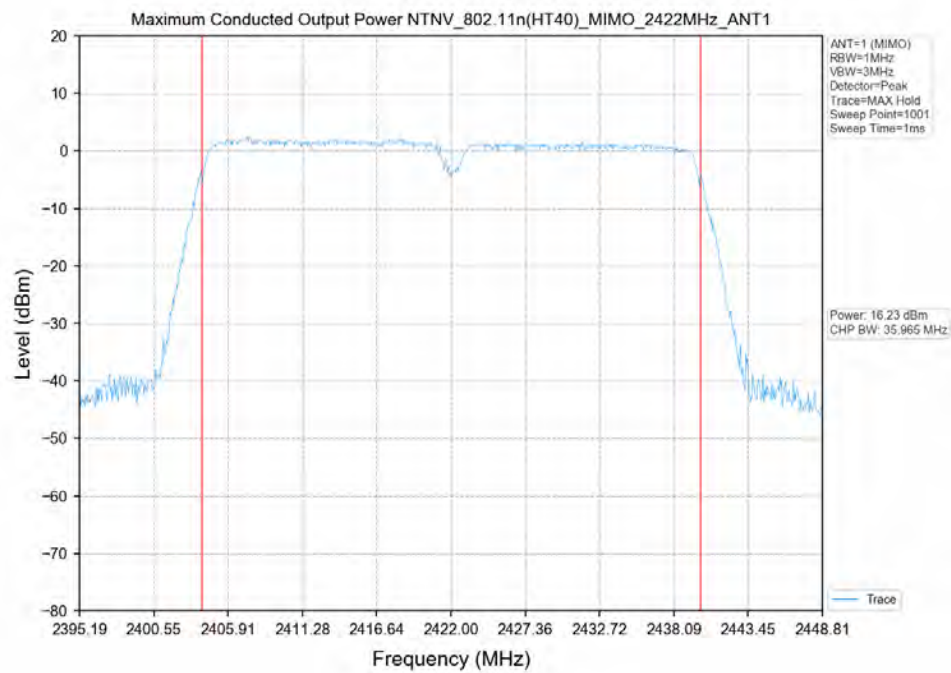
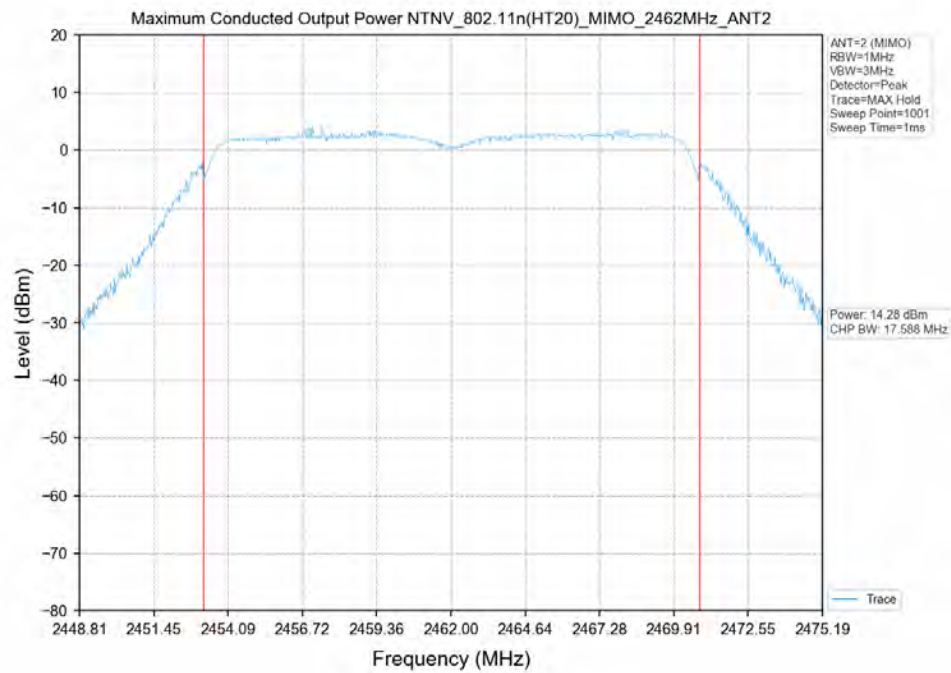


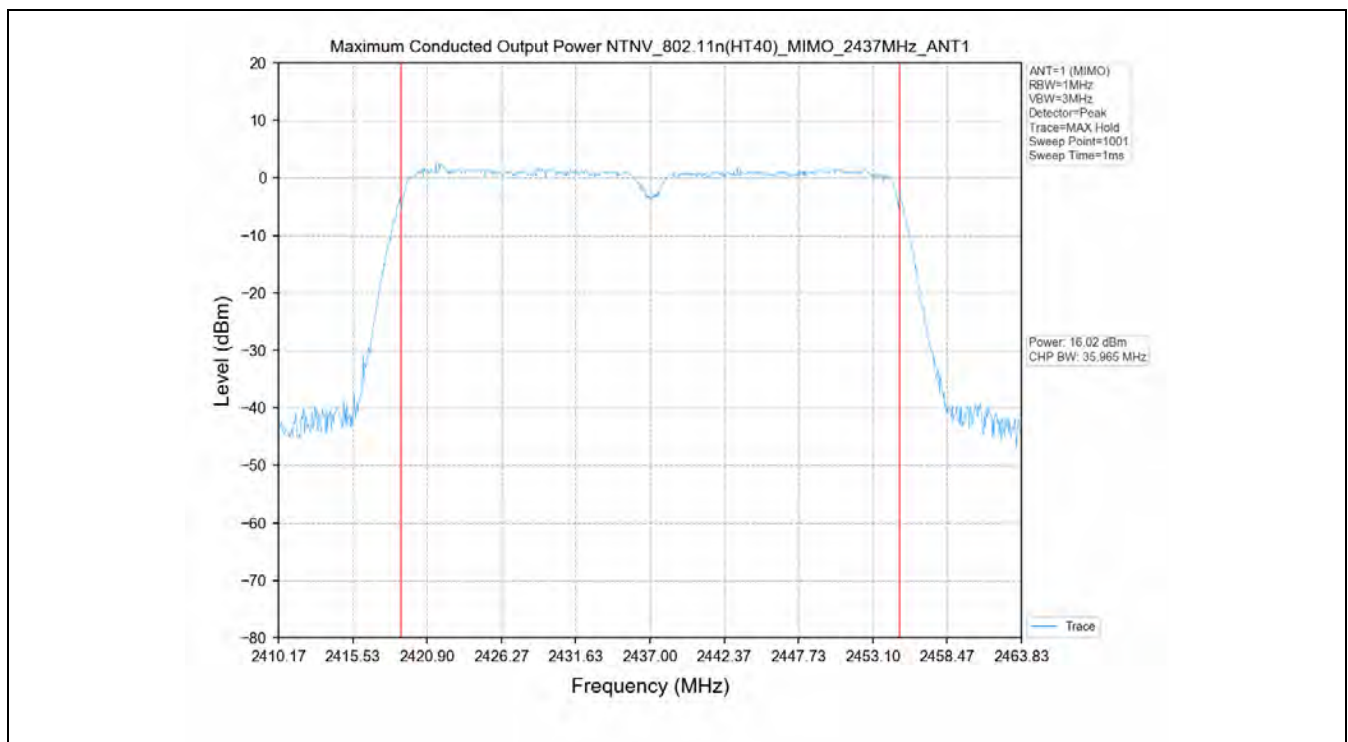
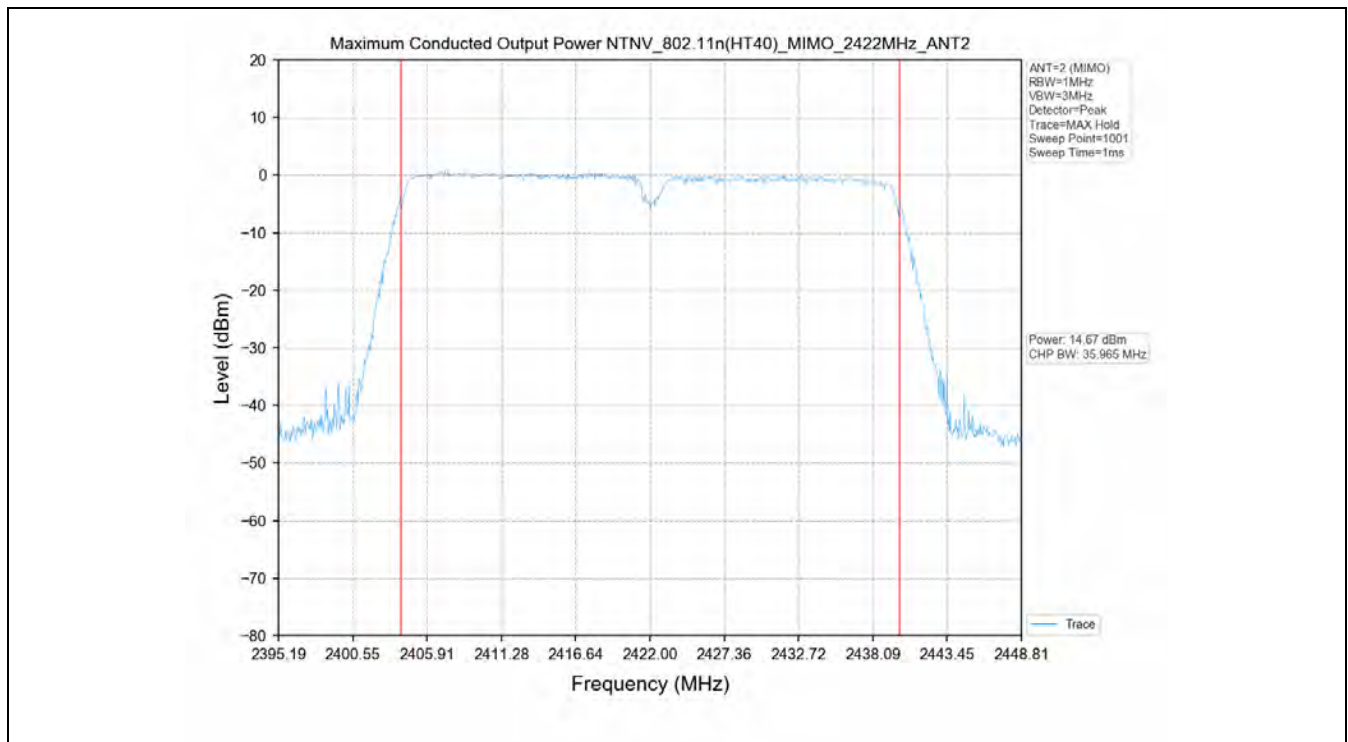


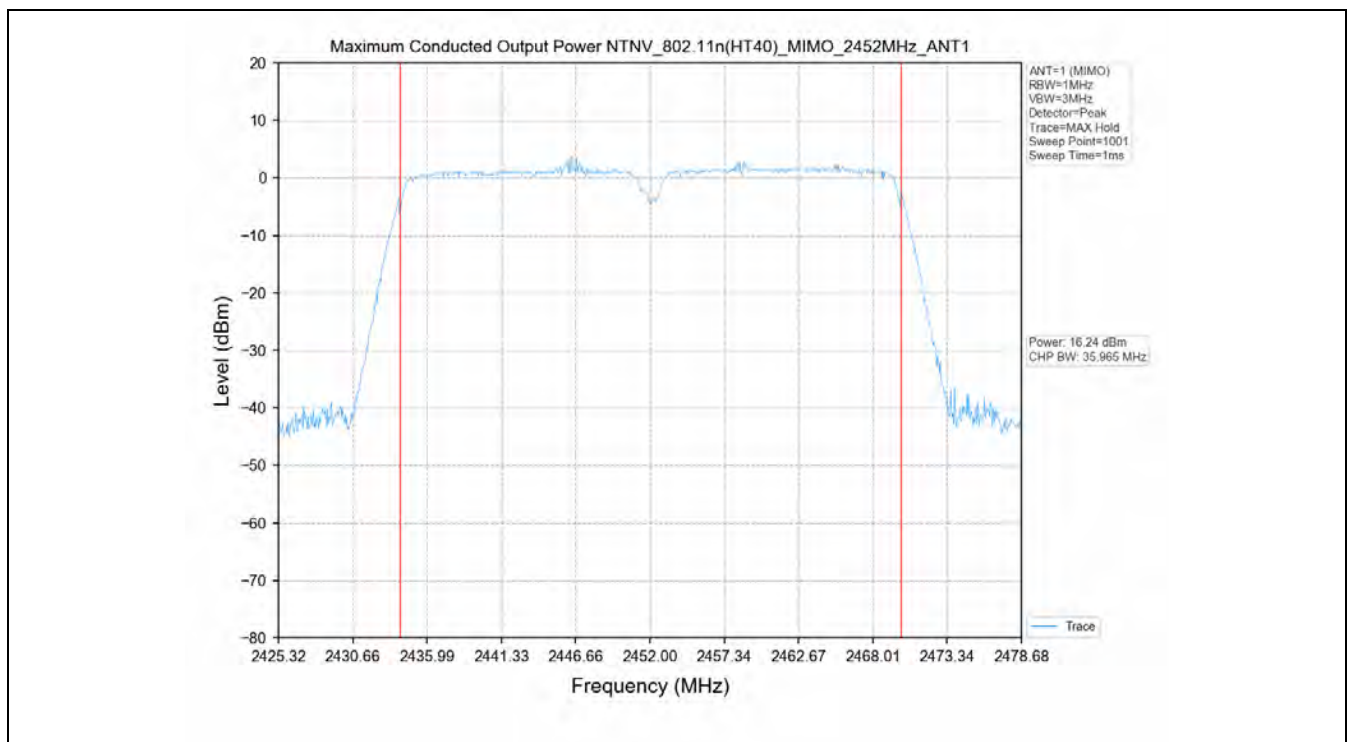
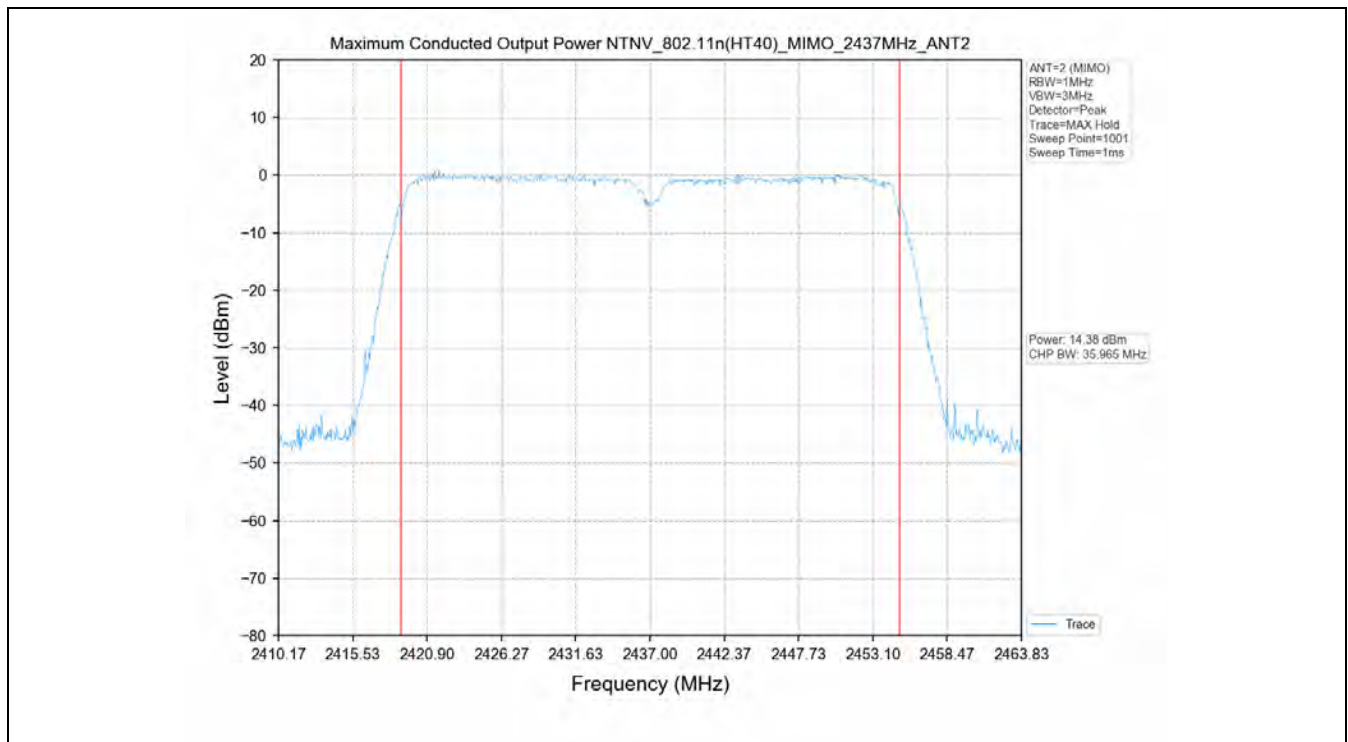


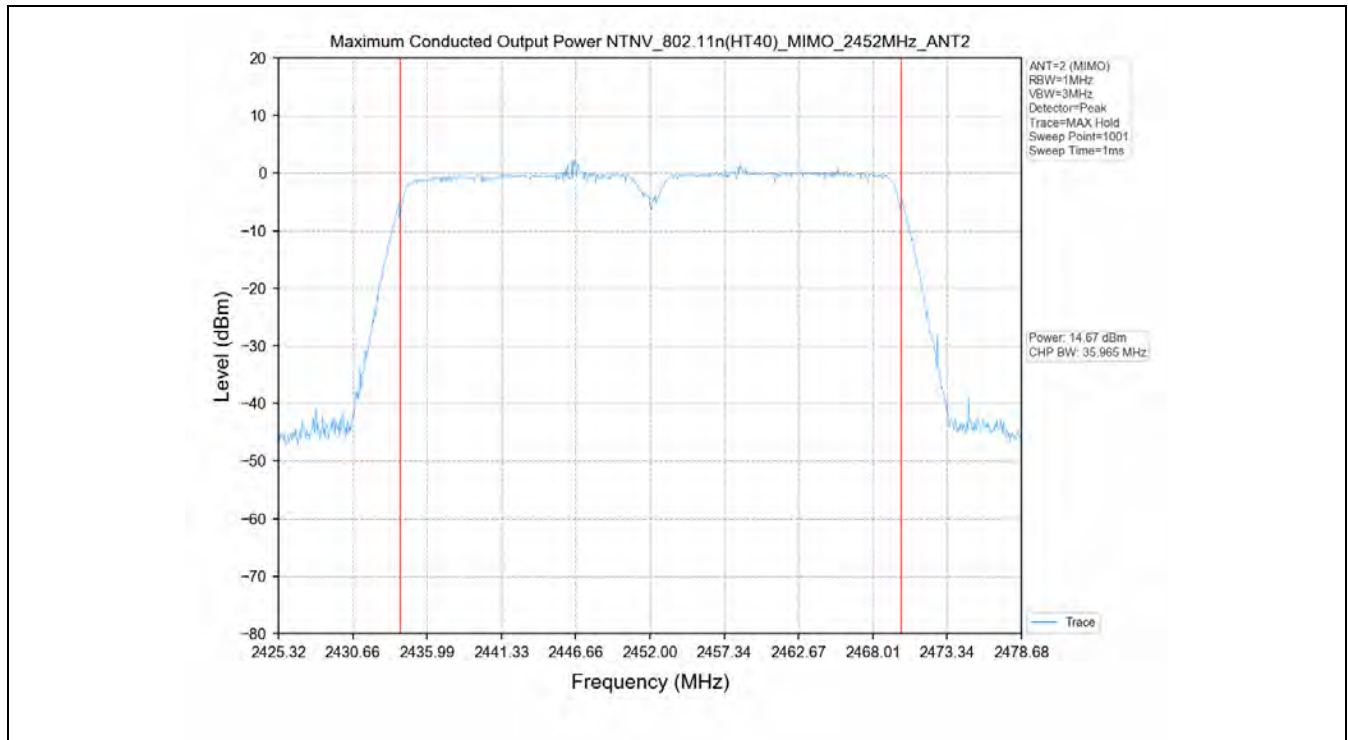












4. Maximum Power Spectral Density (PSD)

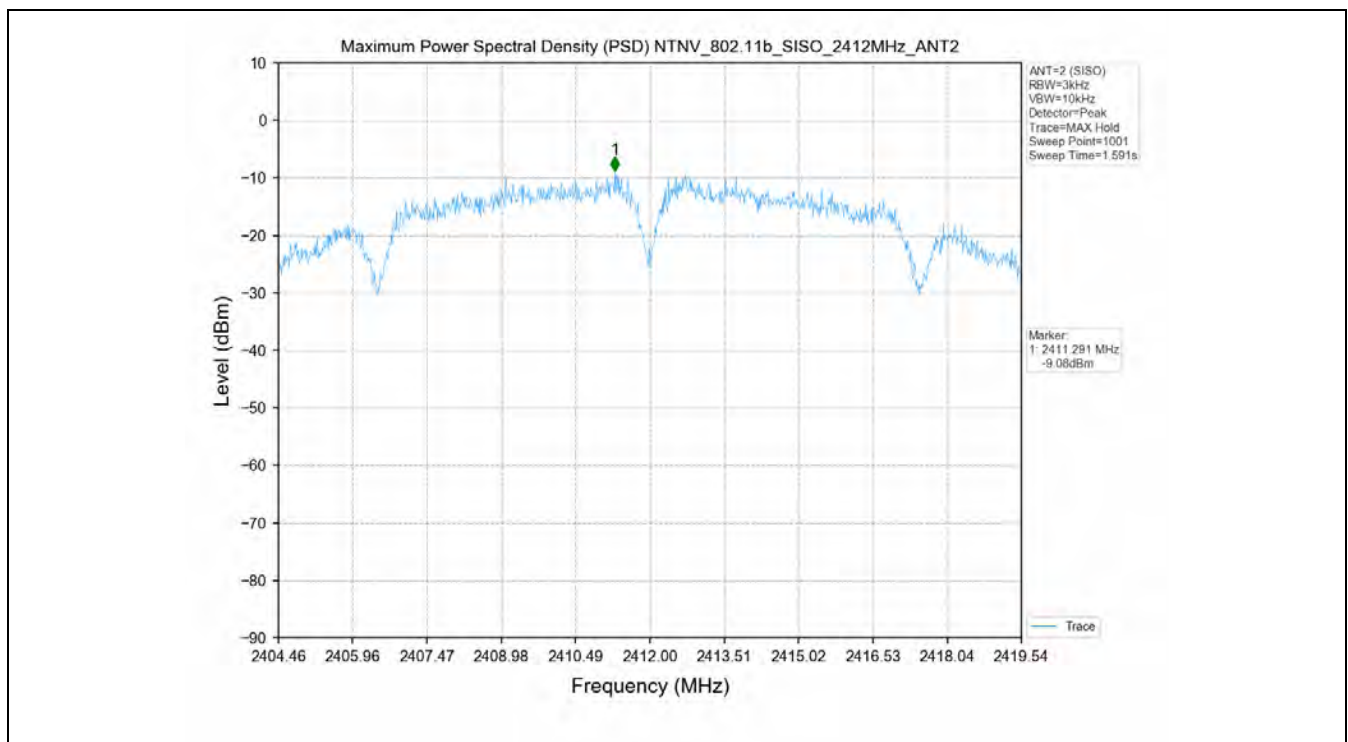
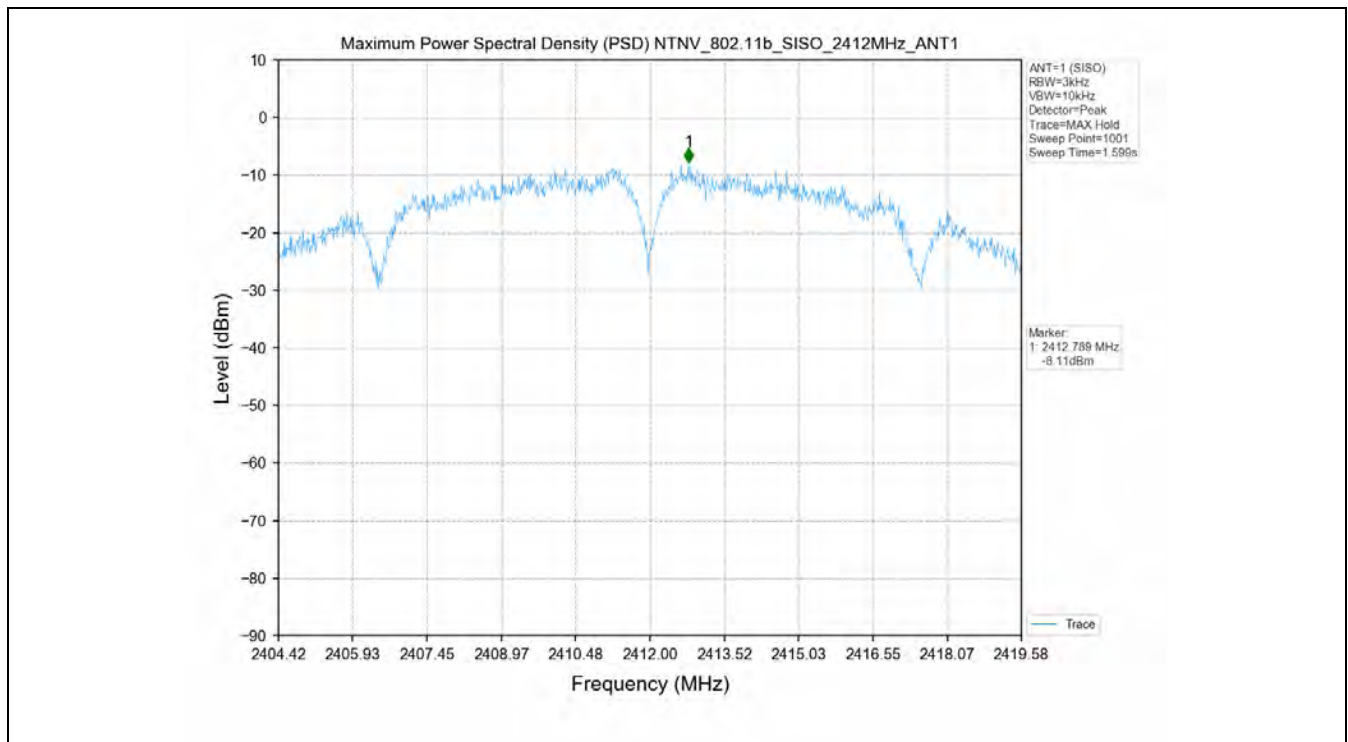
4.1 Test Result

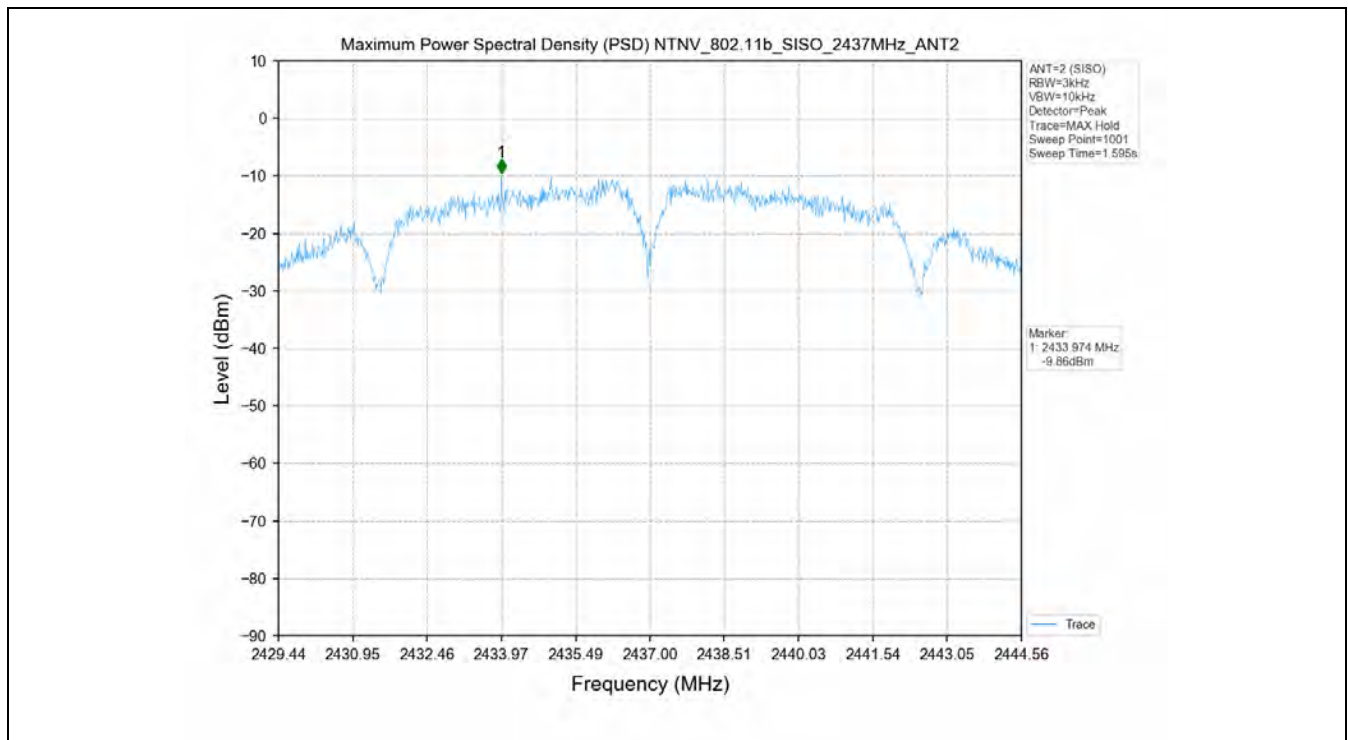
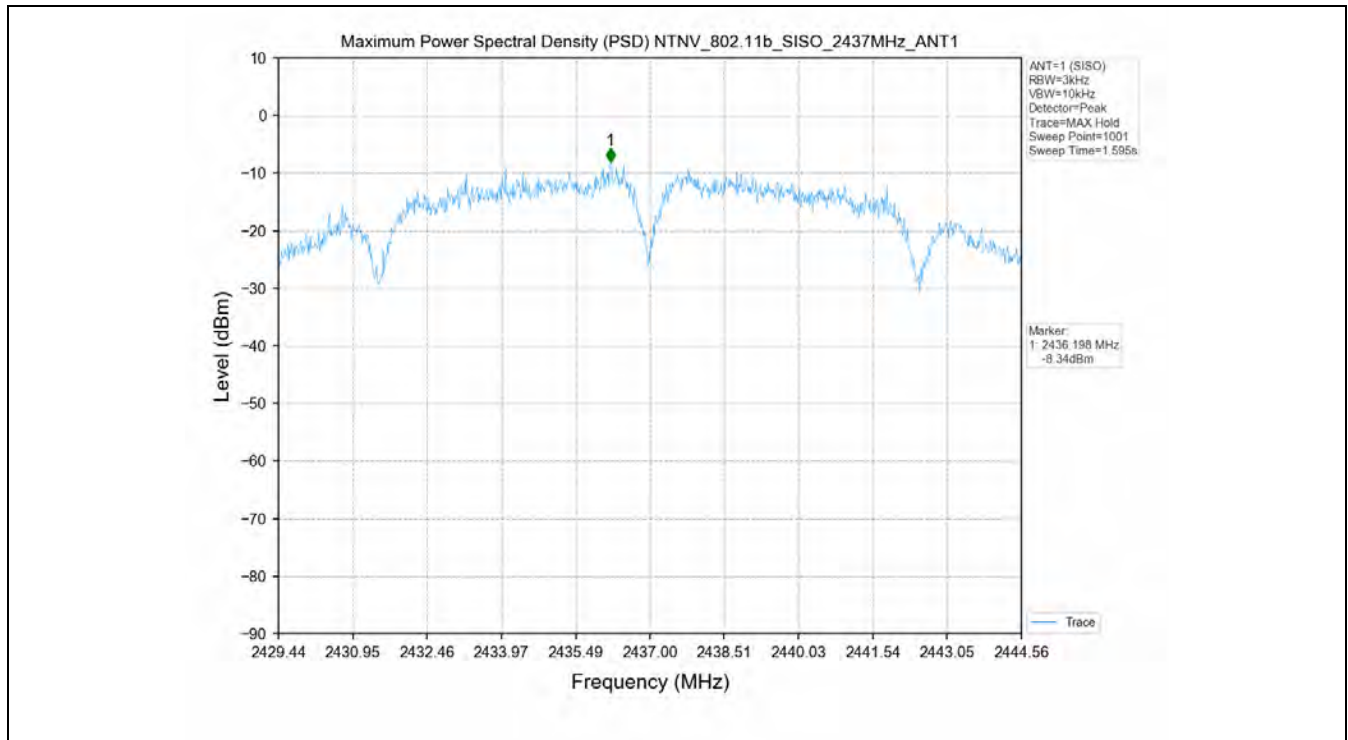
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-8.11	-9.08	/	≤8	PASS
	2437	SISO	-8.34	-9.86	/	≤8	PASS
	2462	SISO	-7.83	-9.09	/	≤8	PASS
802.11g	2412	SISO	-16.61	-18.48	/	≤8	PASS
	2437	SISO	-17.48	-19.13	/	≤8	PASS
	2462	SISO	-16.55	-18.28	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-17.45	-18.72	-15.98	≤8	PASS
	2437	MIMO	-17.73	-19.40	-15.48	≤8	PASS
	2462	MIMO	-17.62	-19.62	-15.64	≤8	PASS
802.11n(HT40)	2422	MIMO	-19.82	-21.39	-18.22	≤8	PASS
	2437	MIMO	-19.84	-21.60	-17.82	≤8	PASS
	2452	MIMO	-19.88	-21.61	-17.65	≤8	PASS

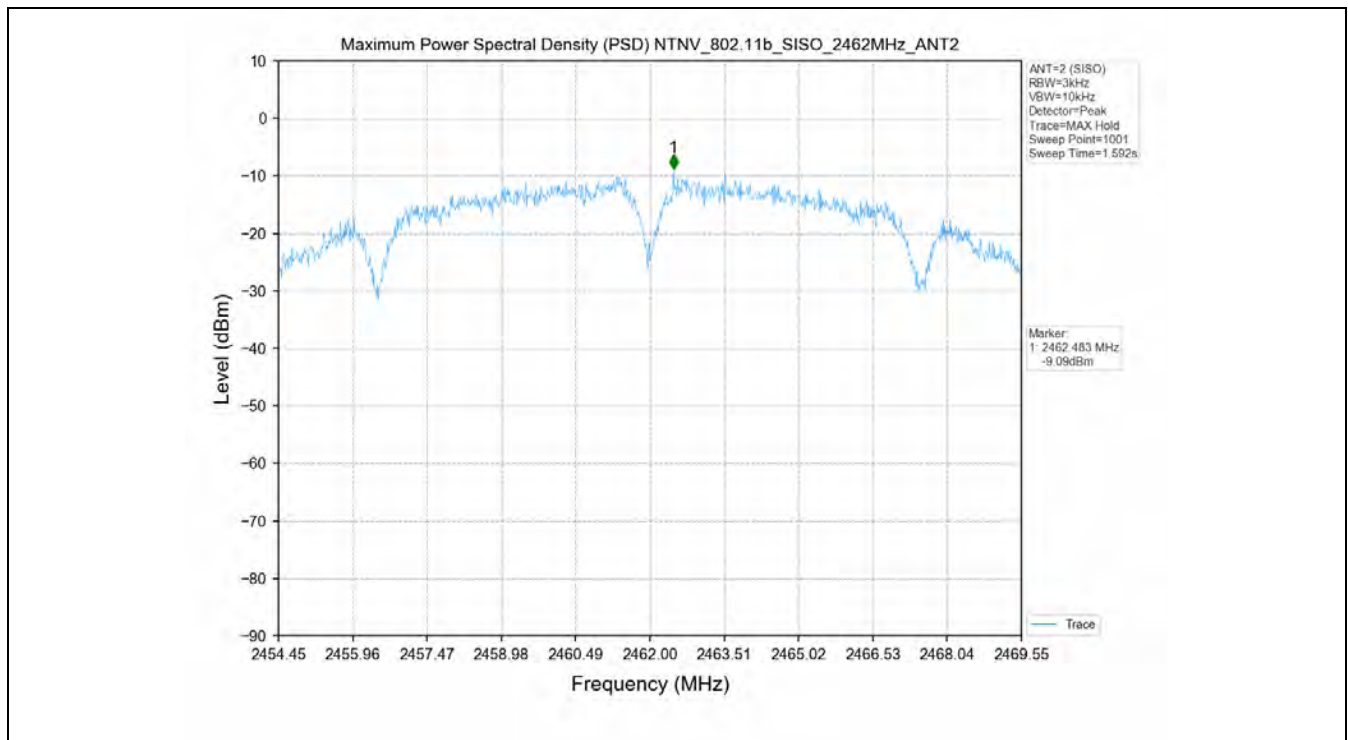
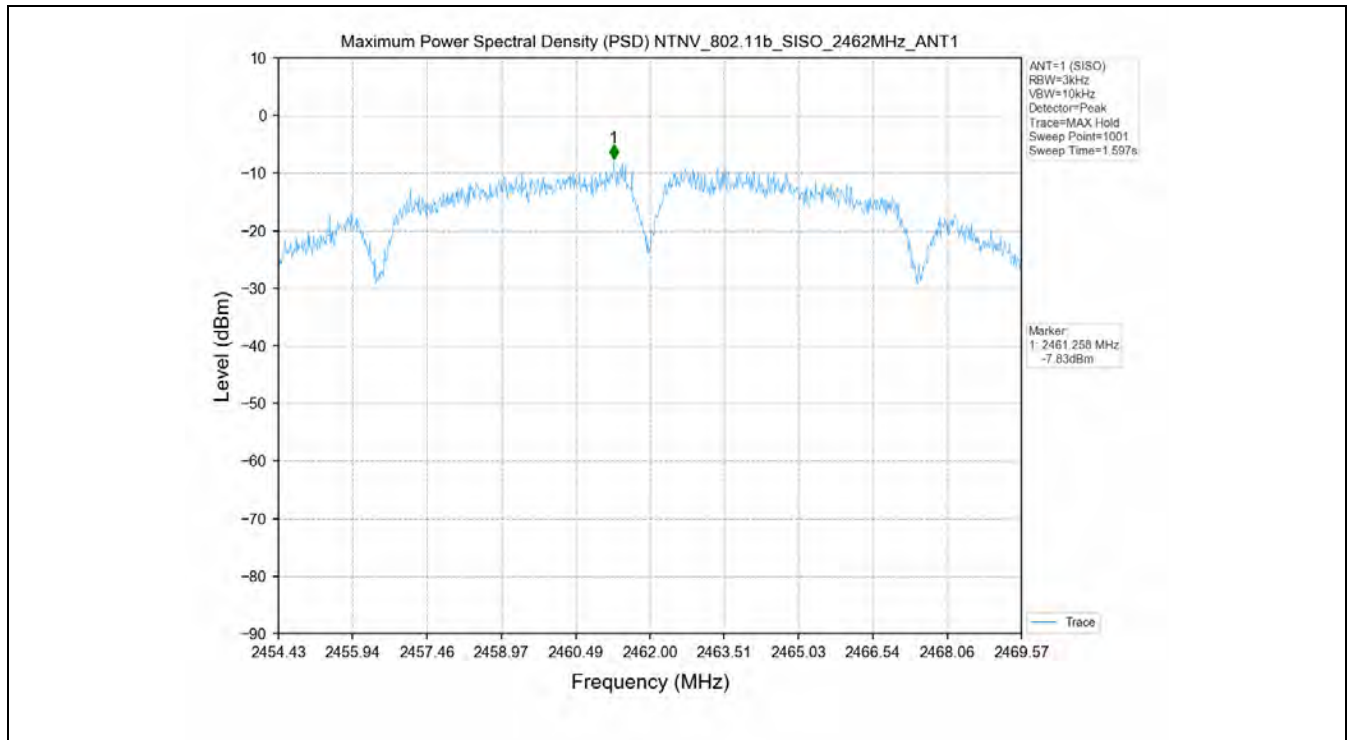
4.2 Test Graph

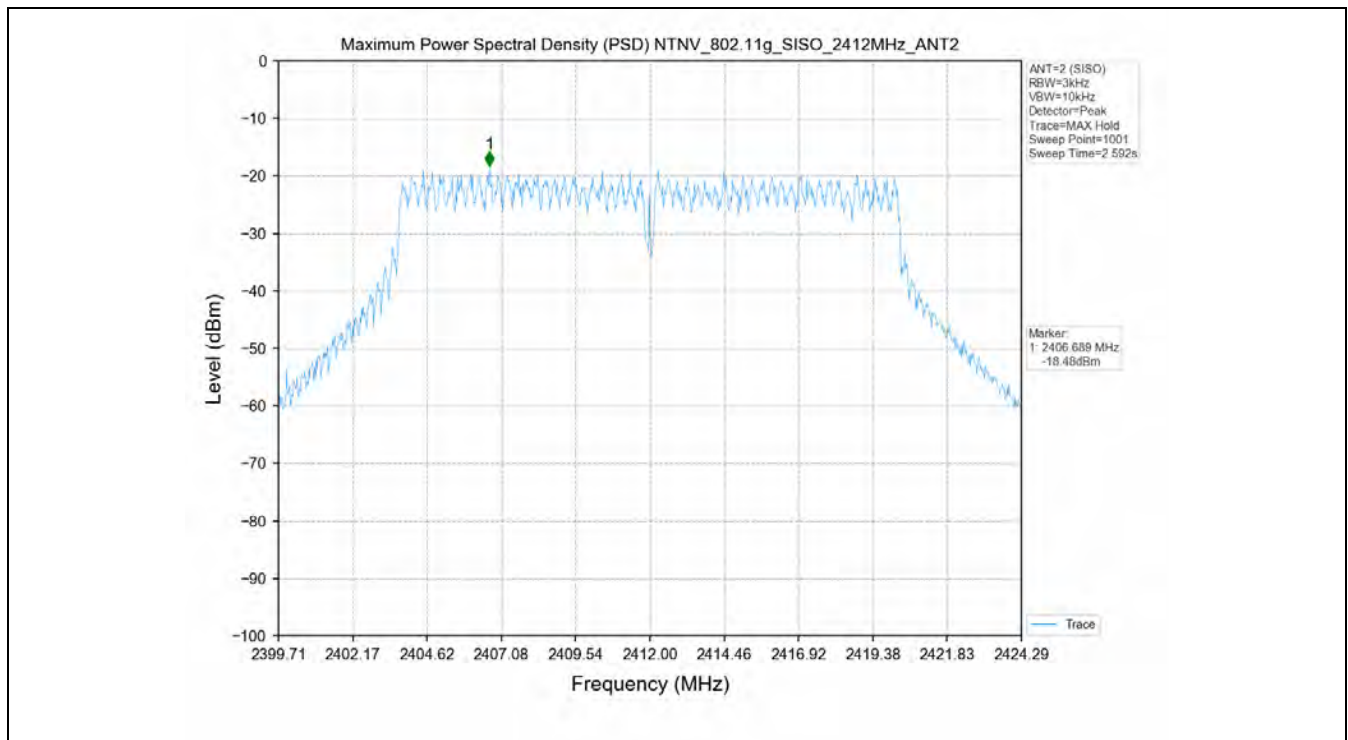
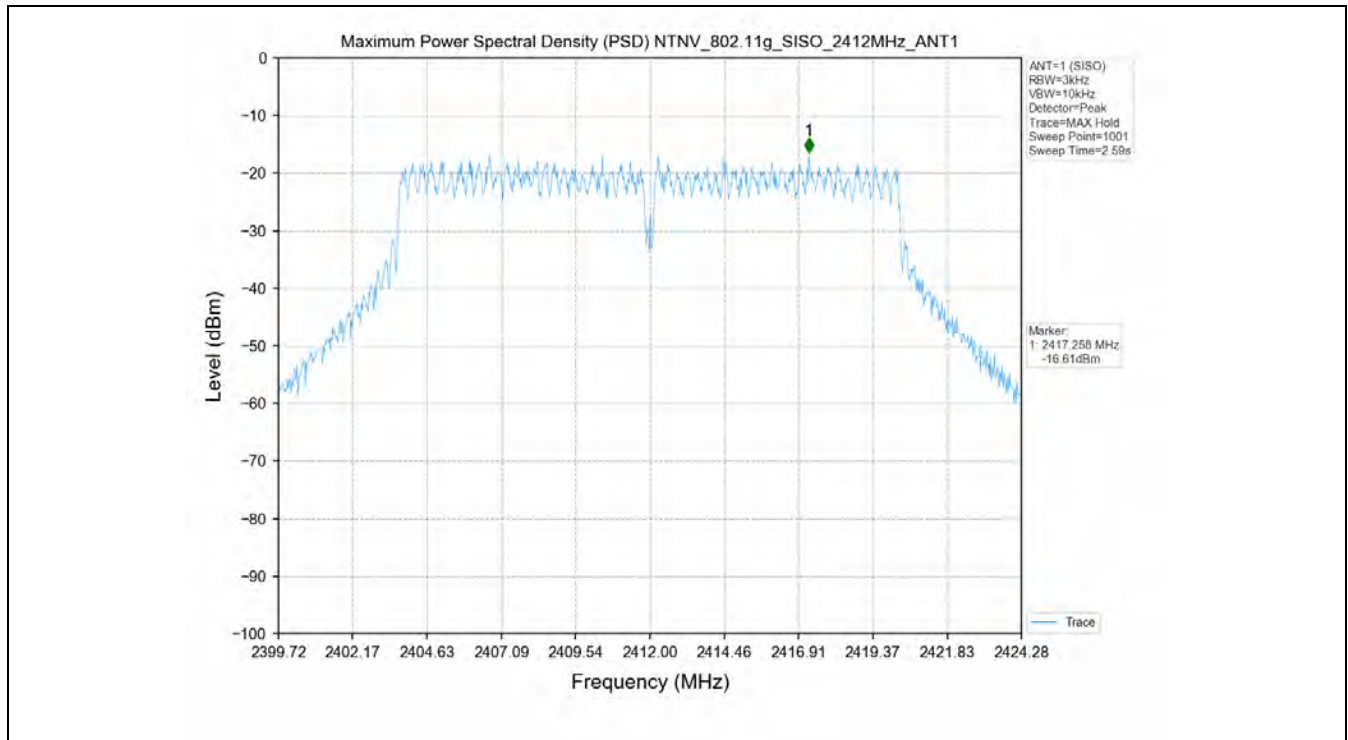


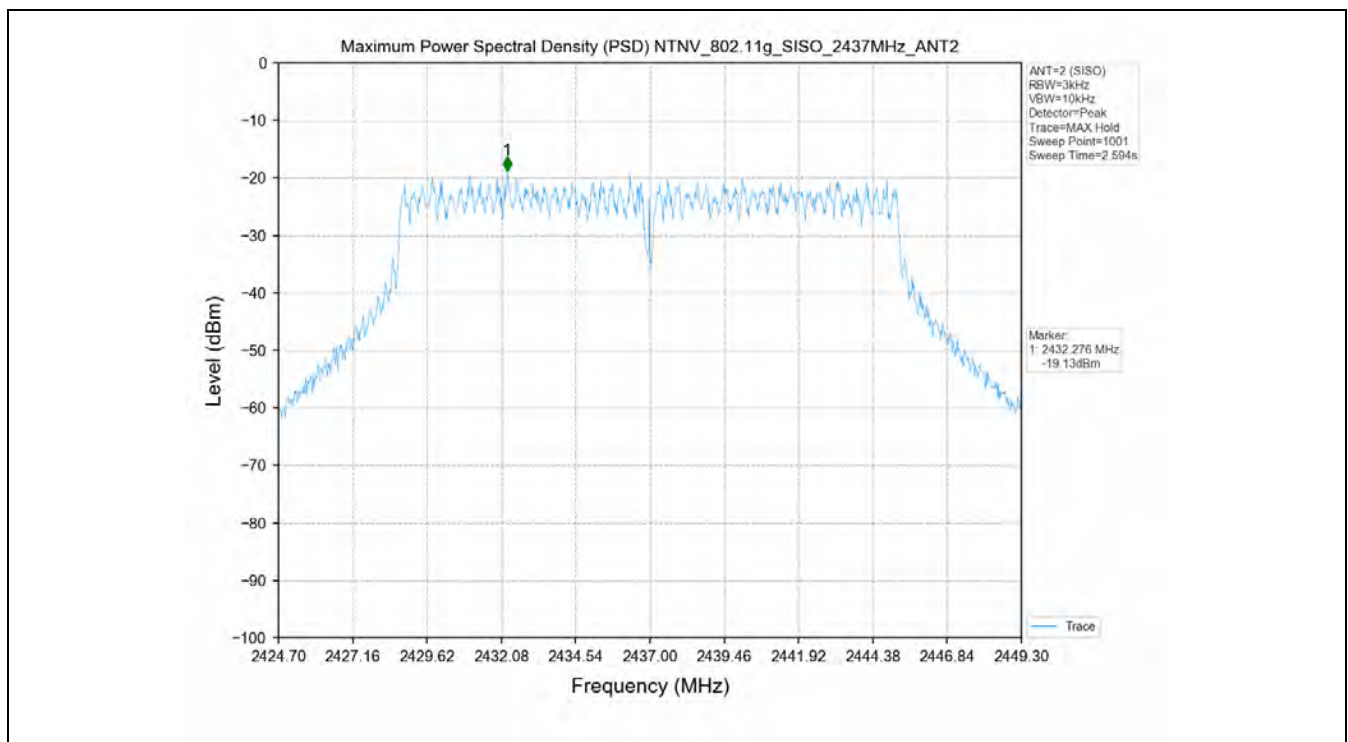
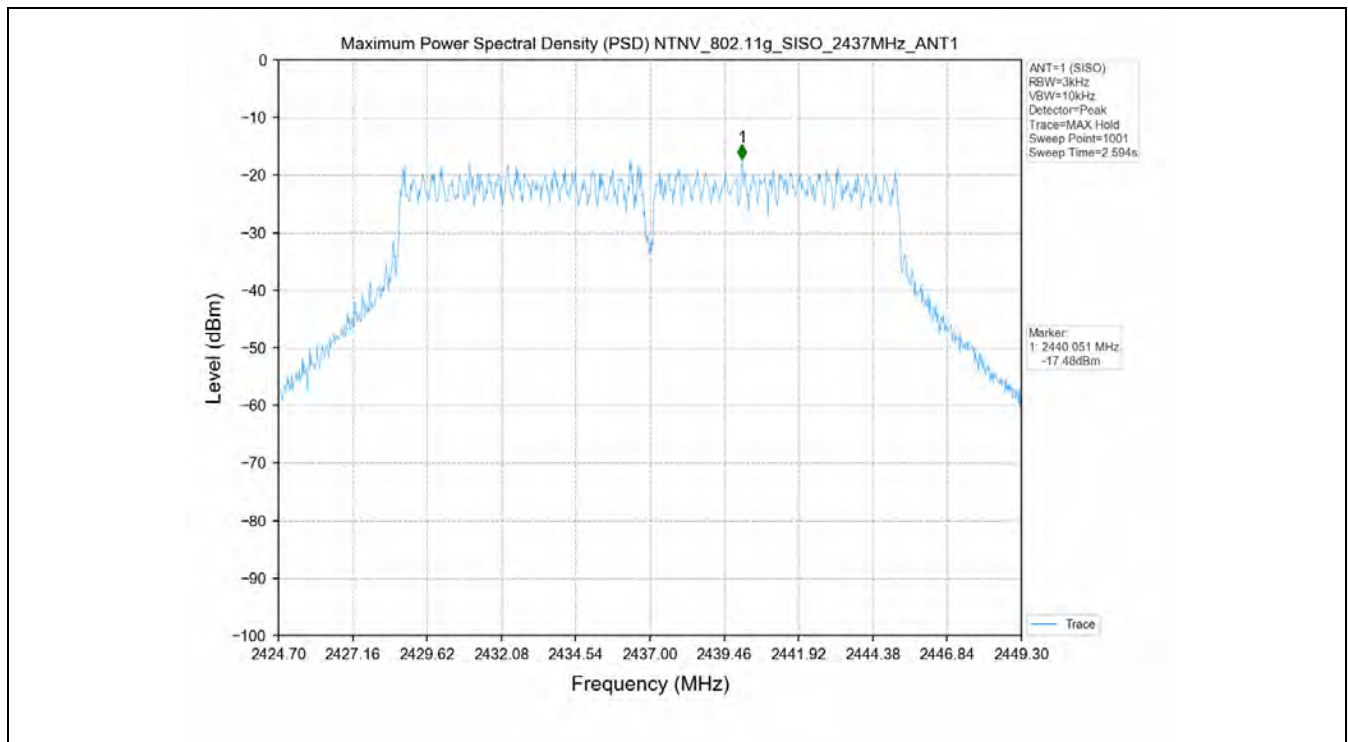
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

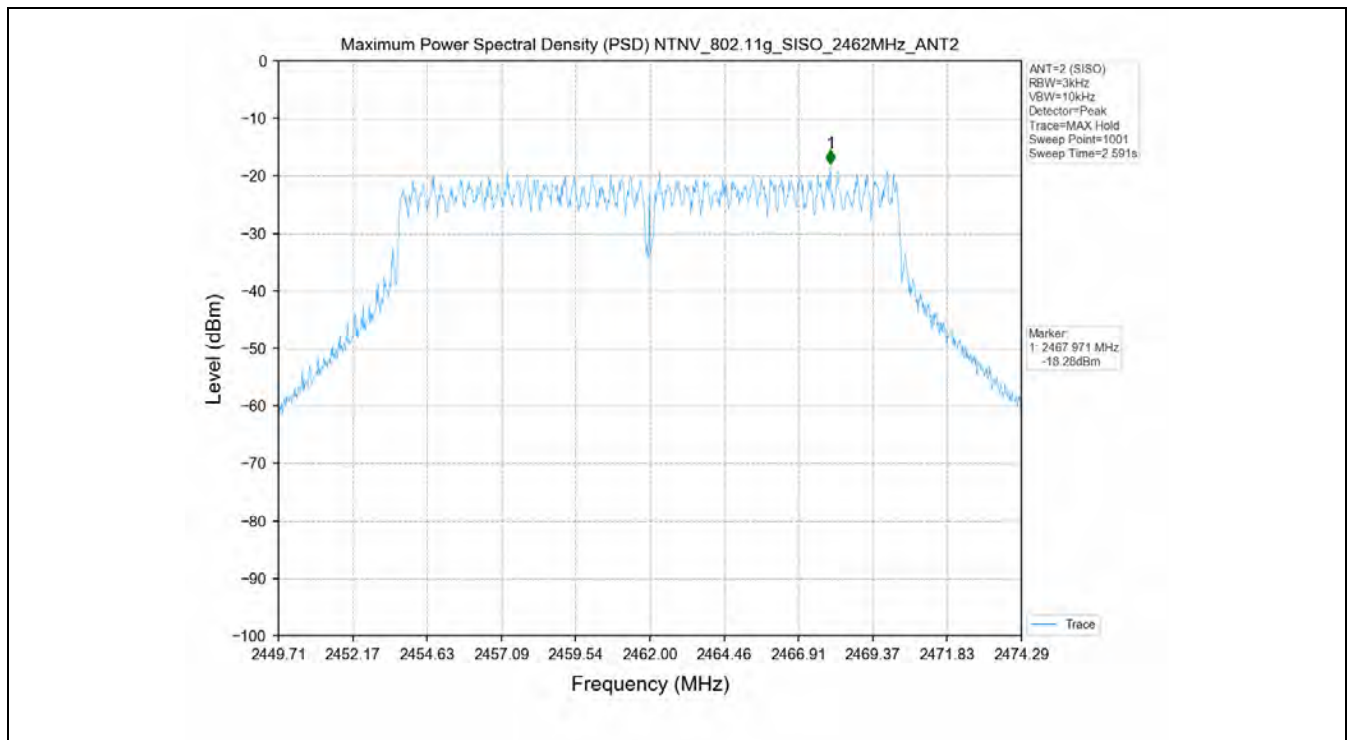
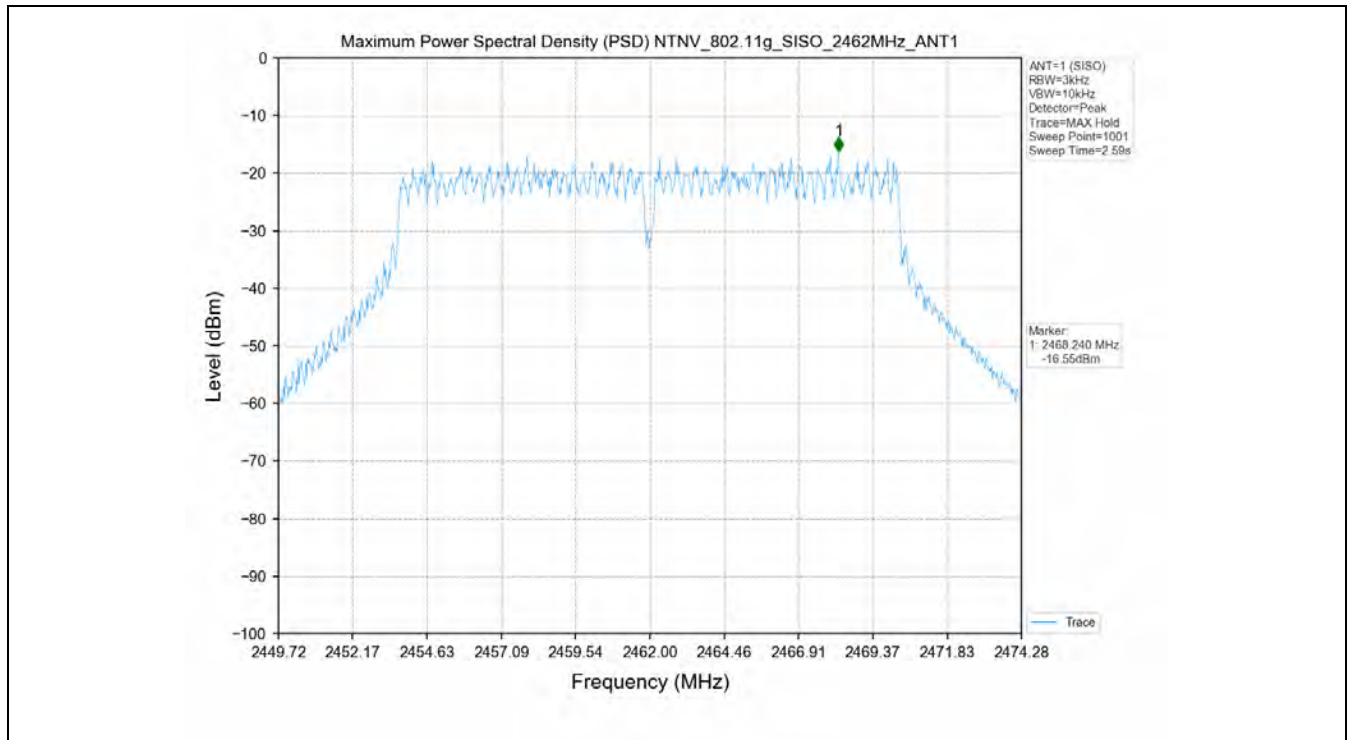


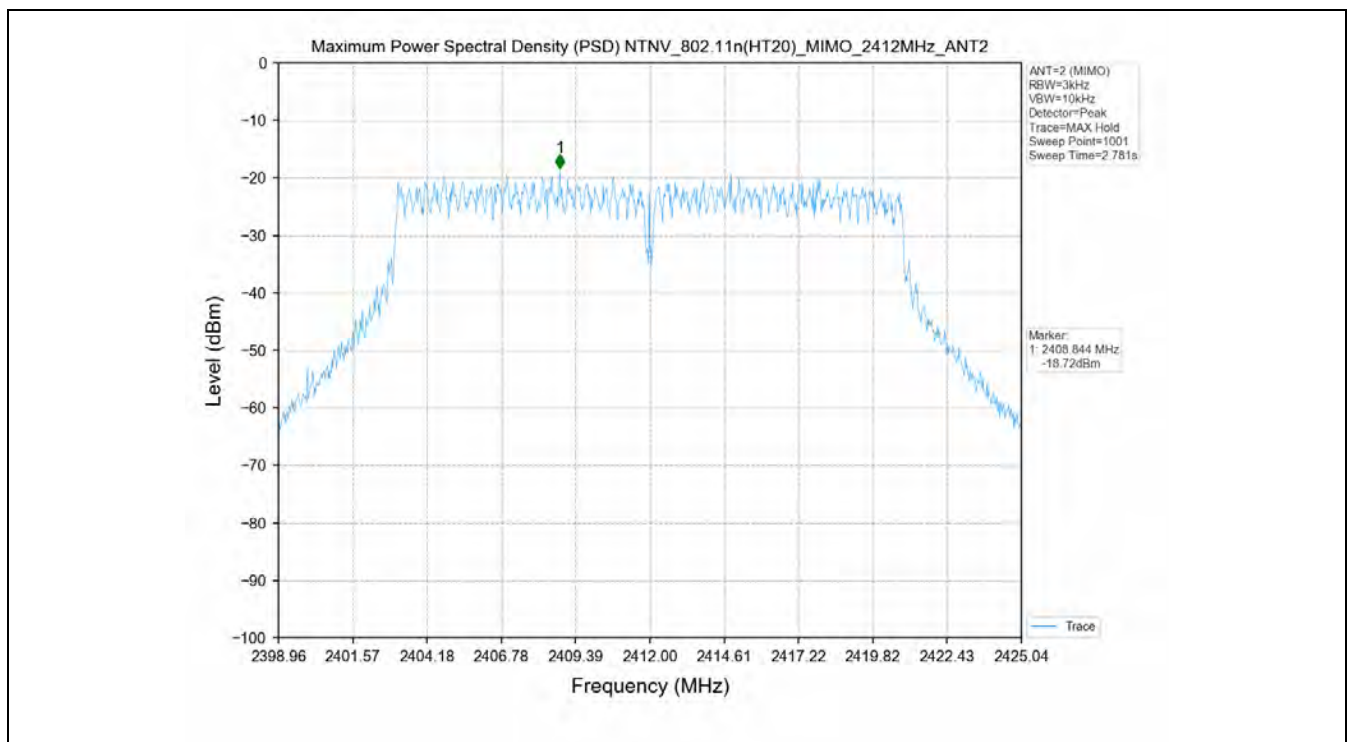
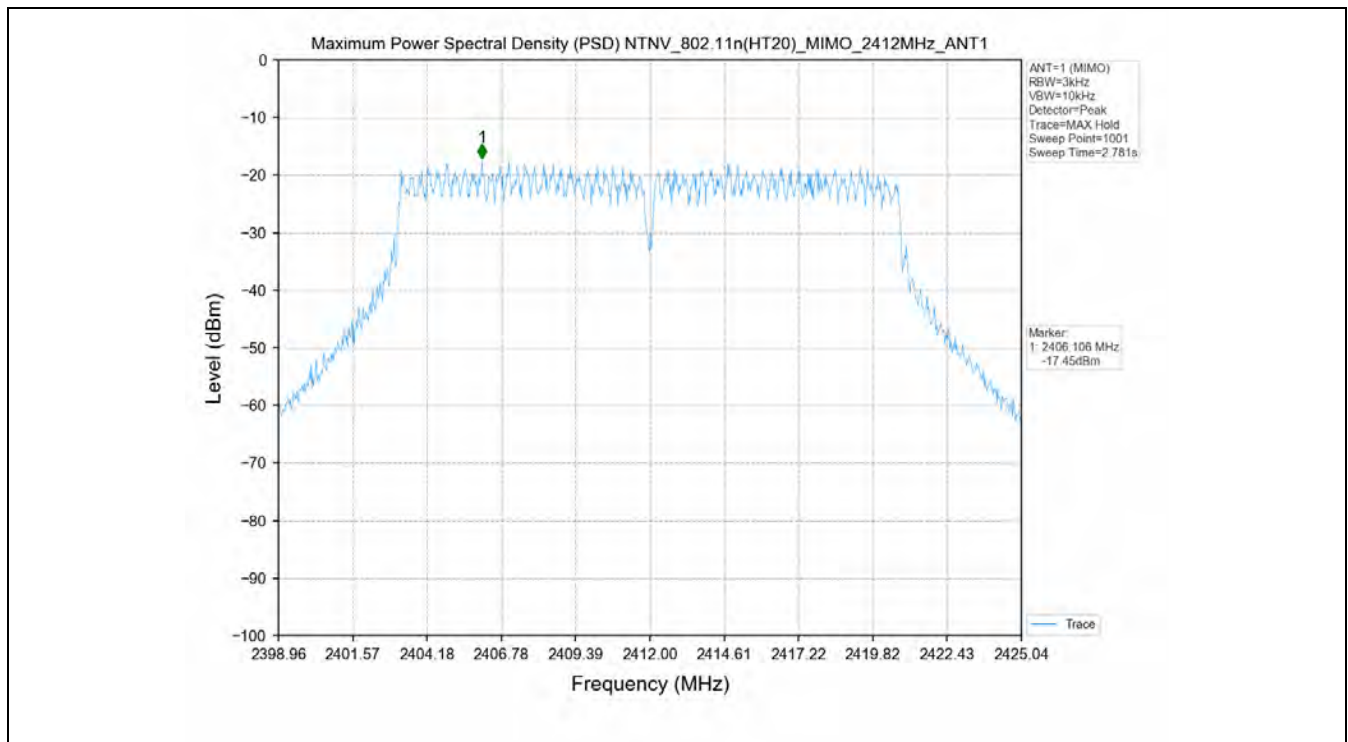






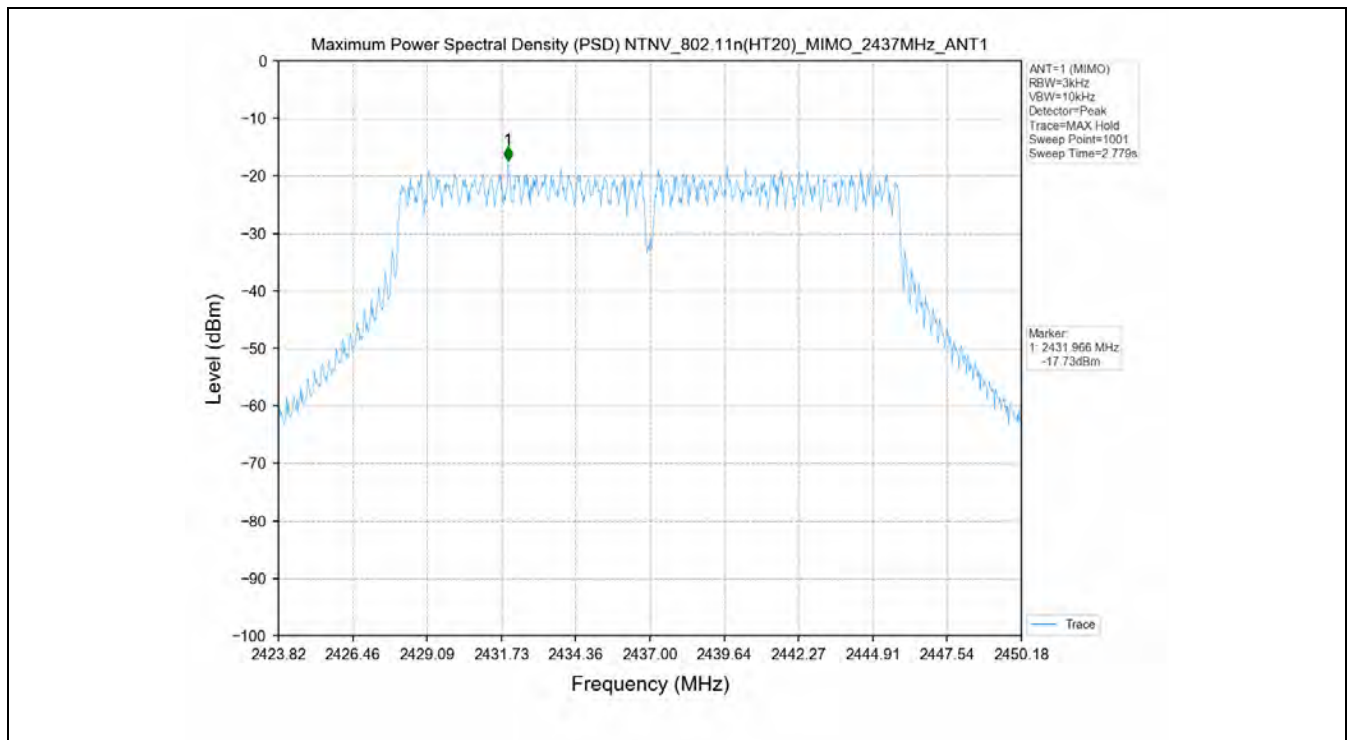
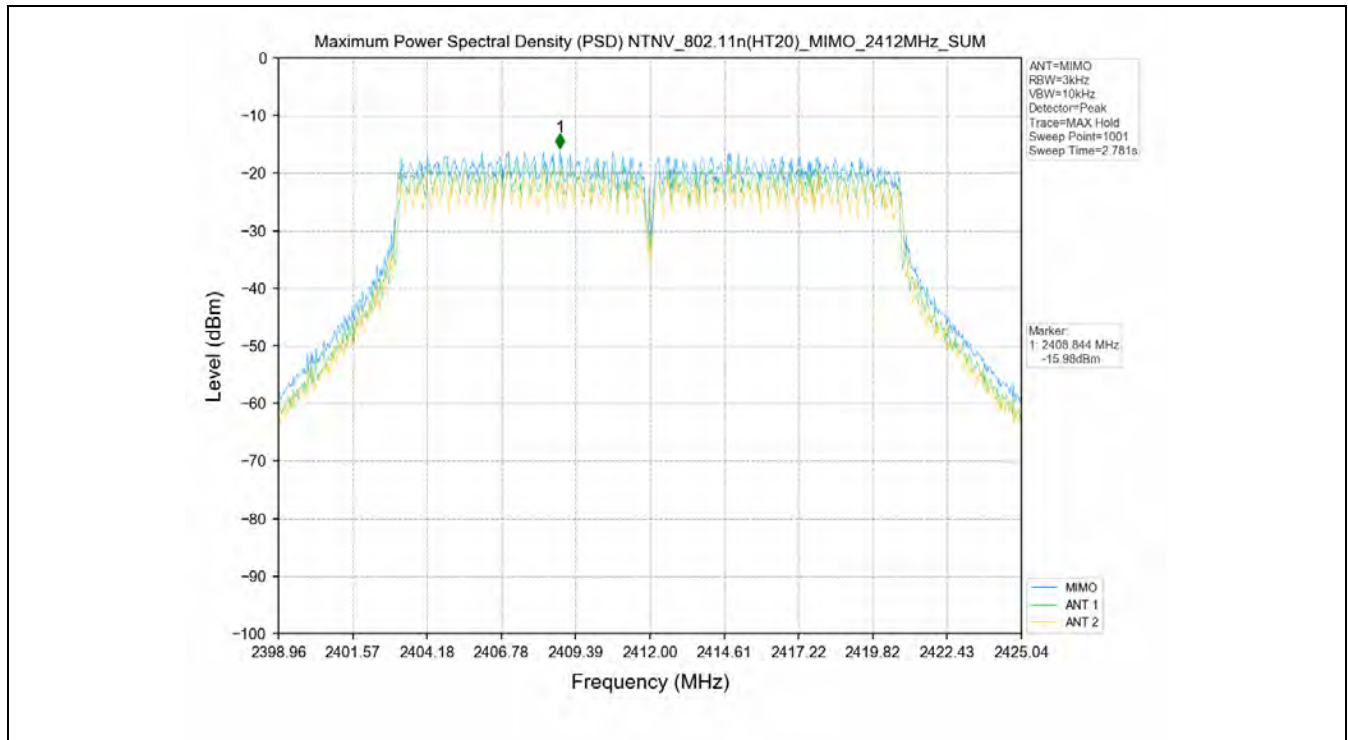


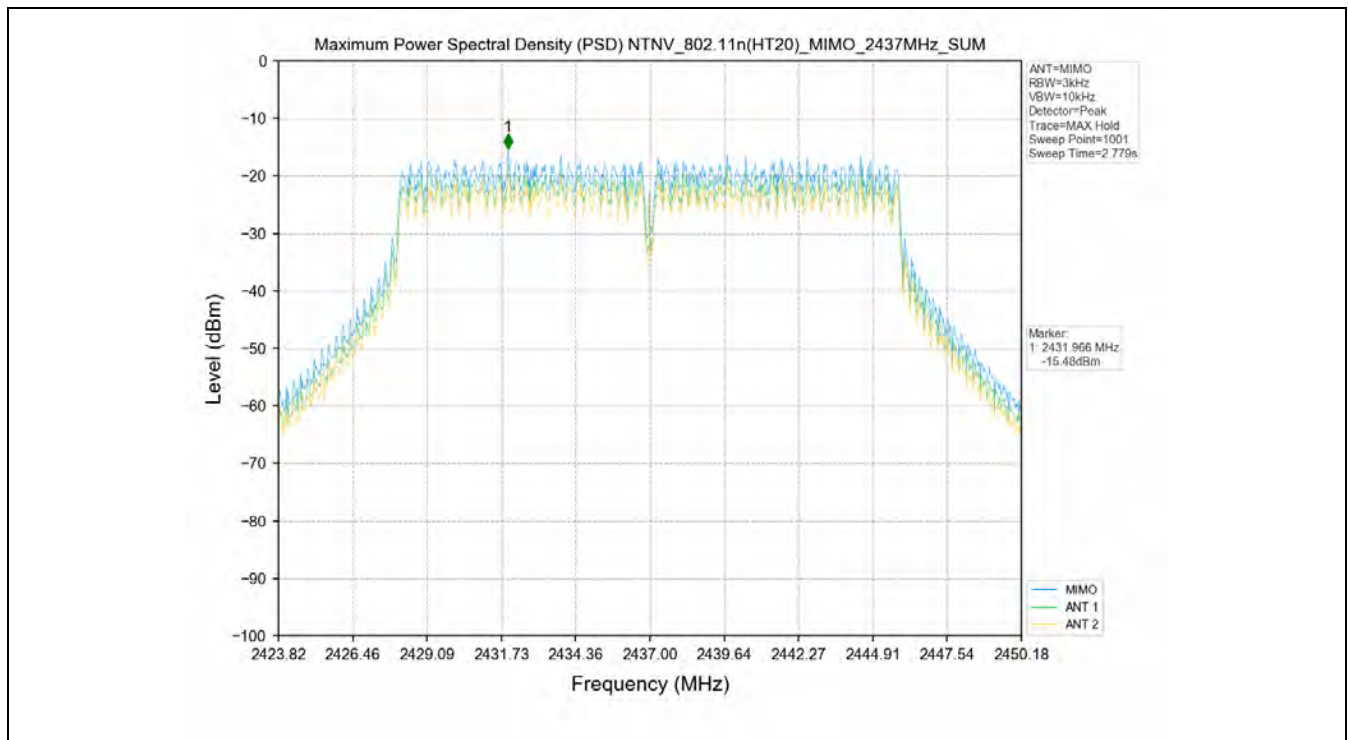
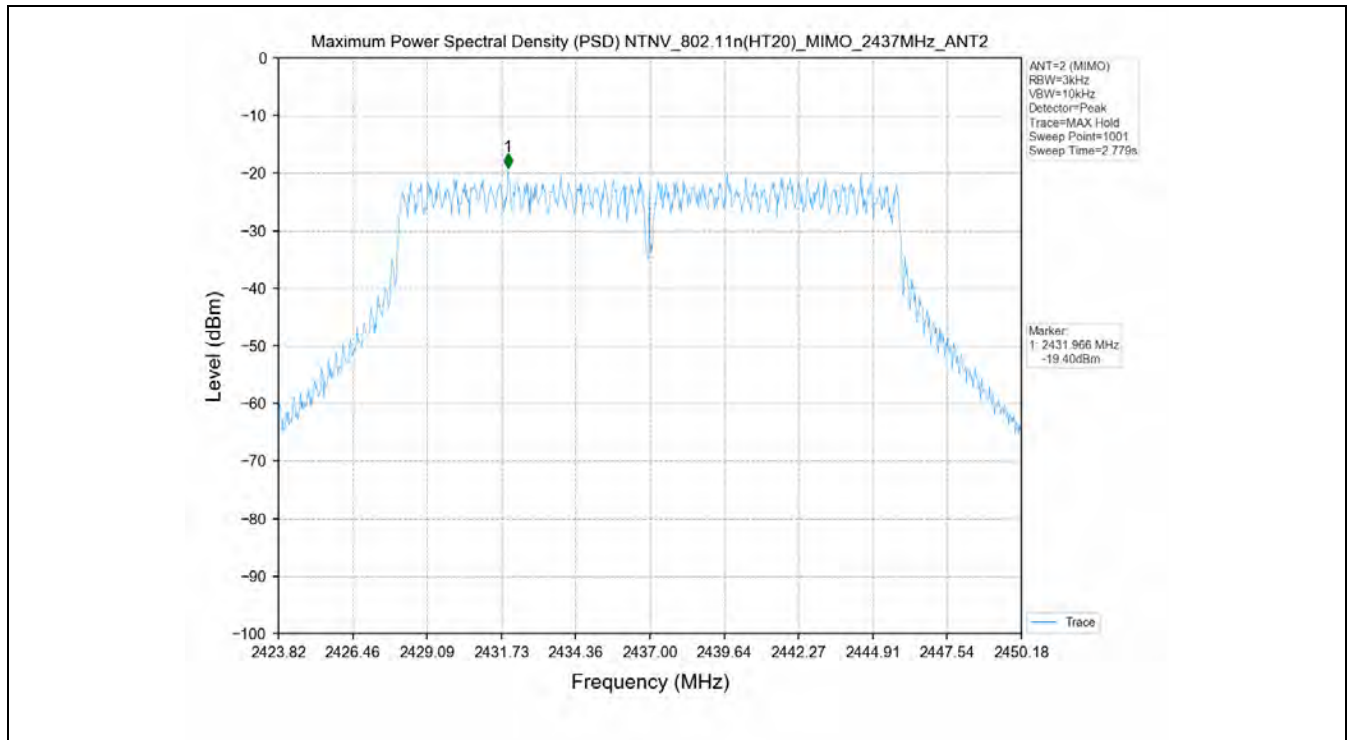


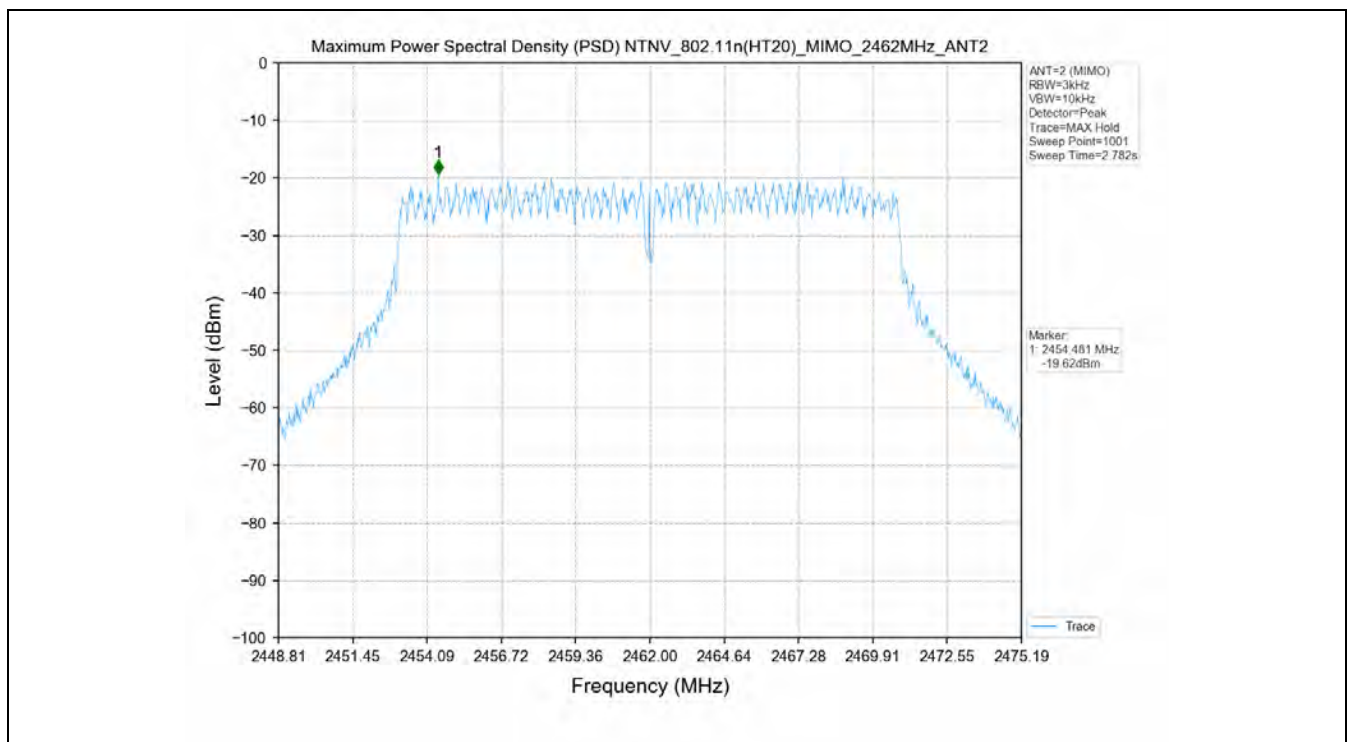
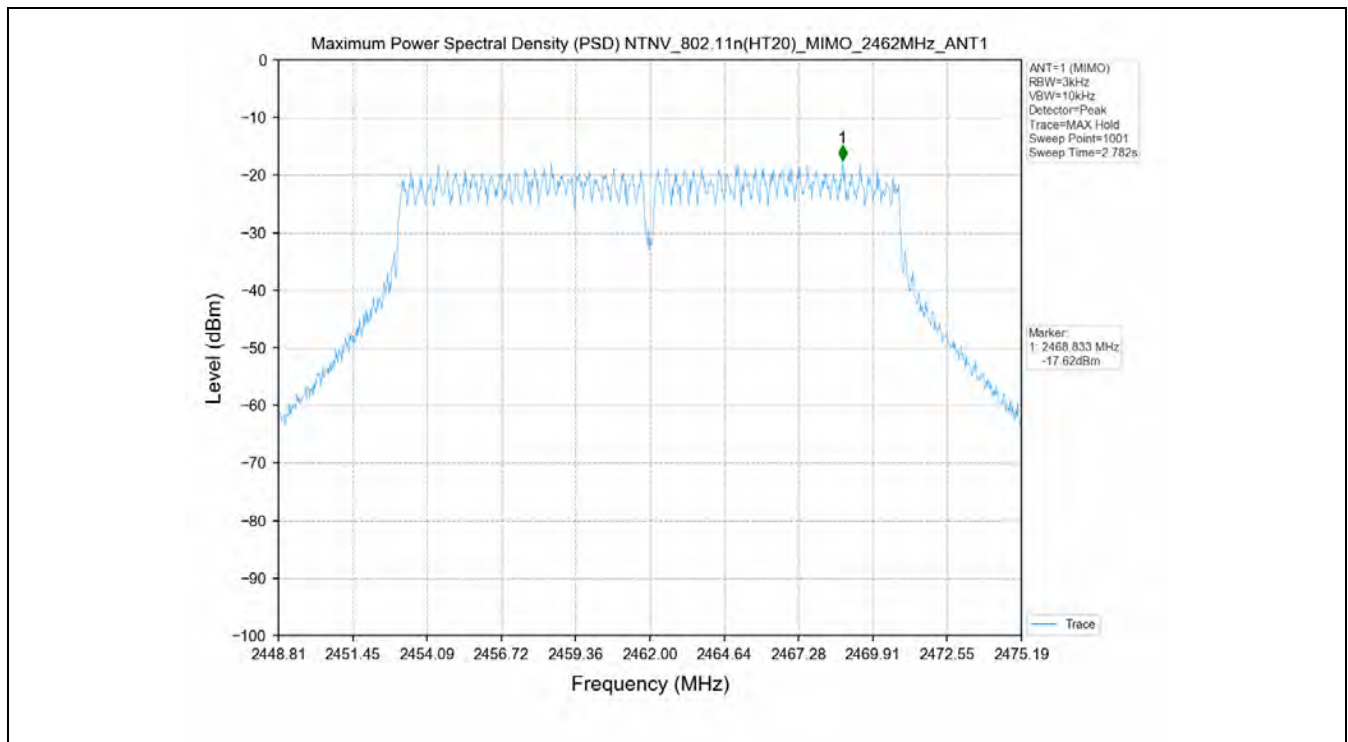


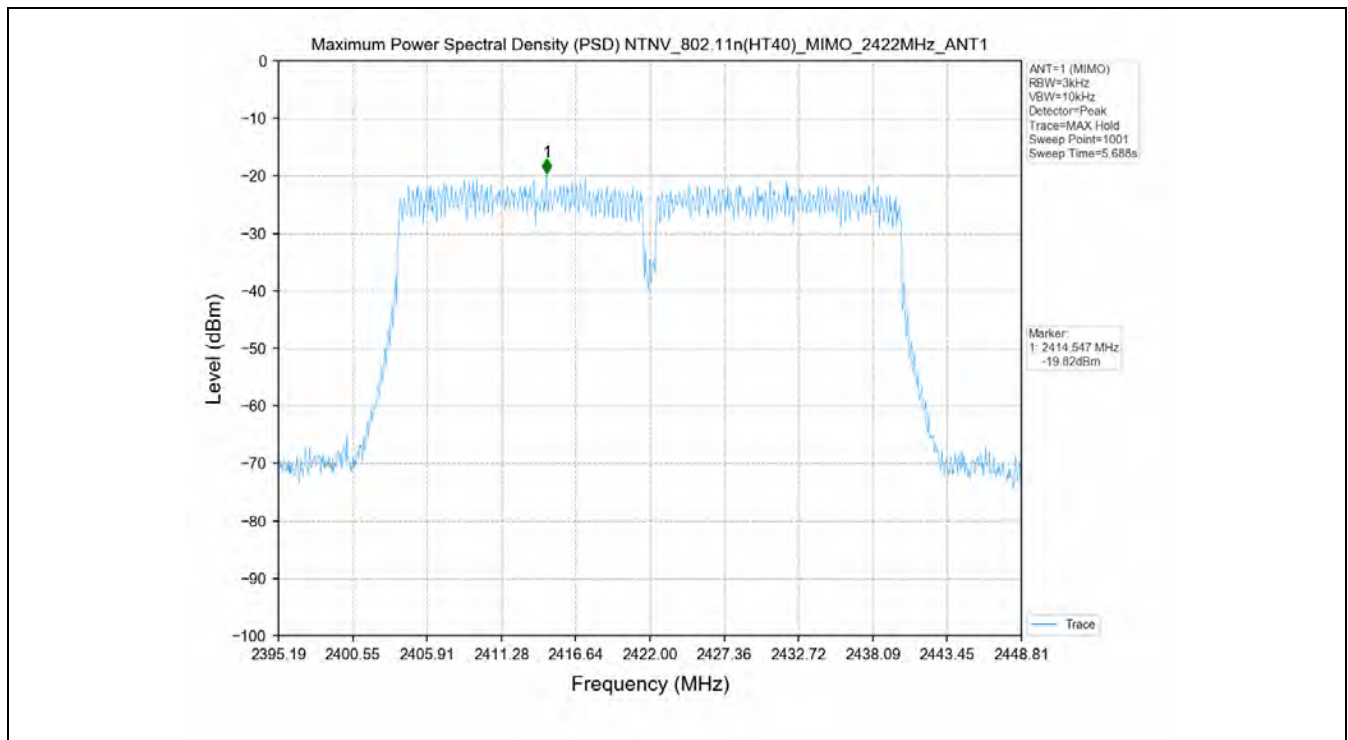
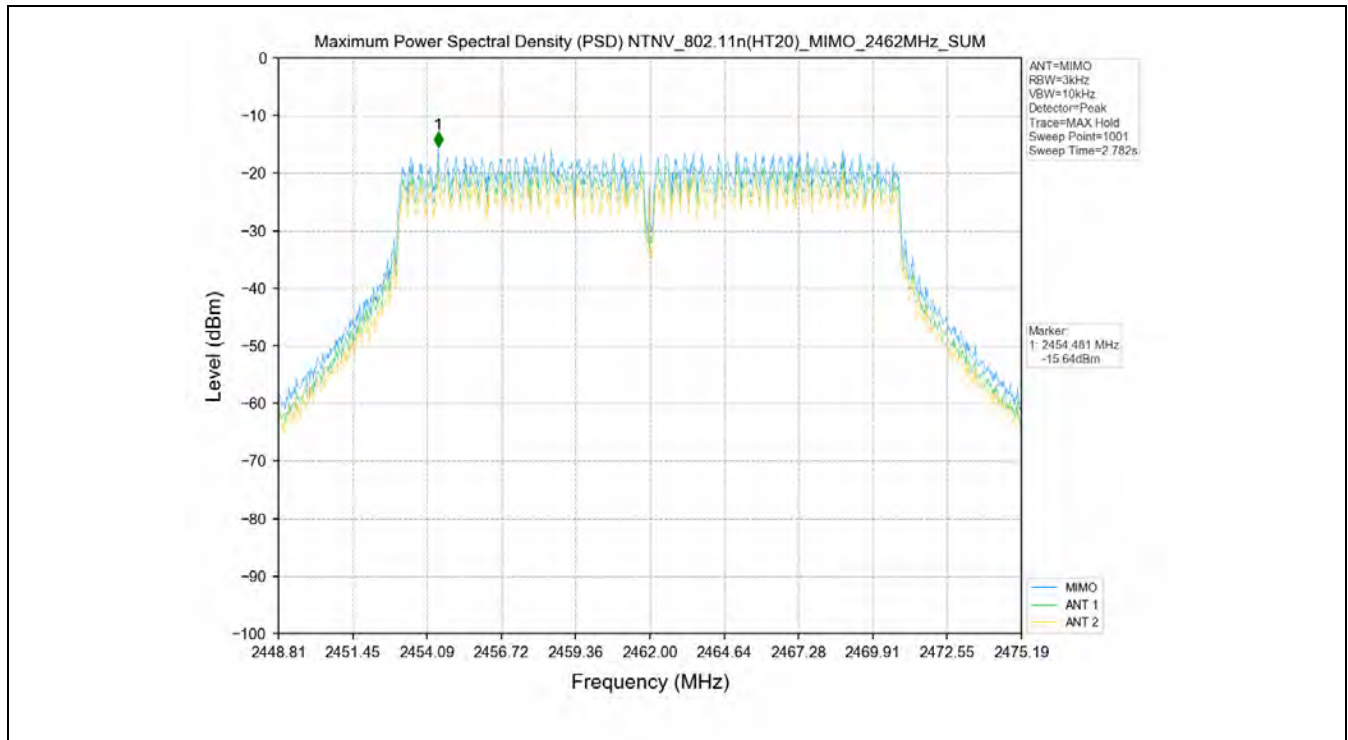


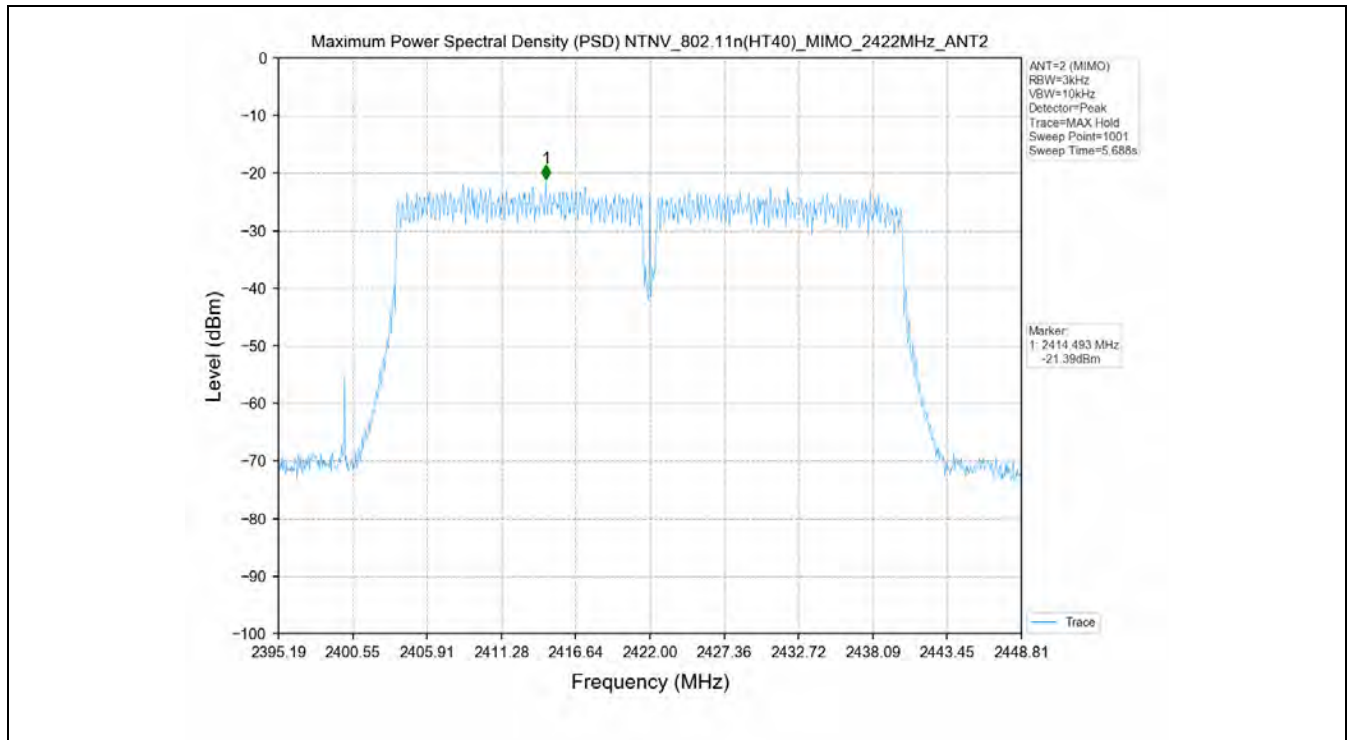
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

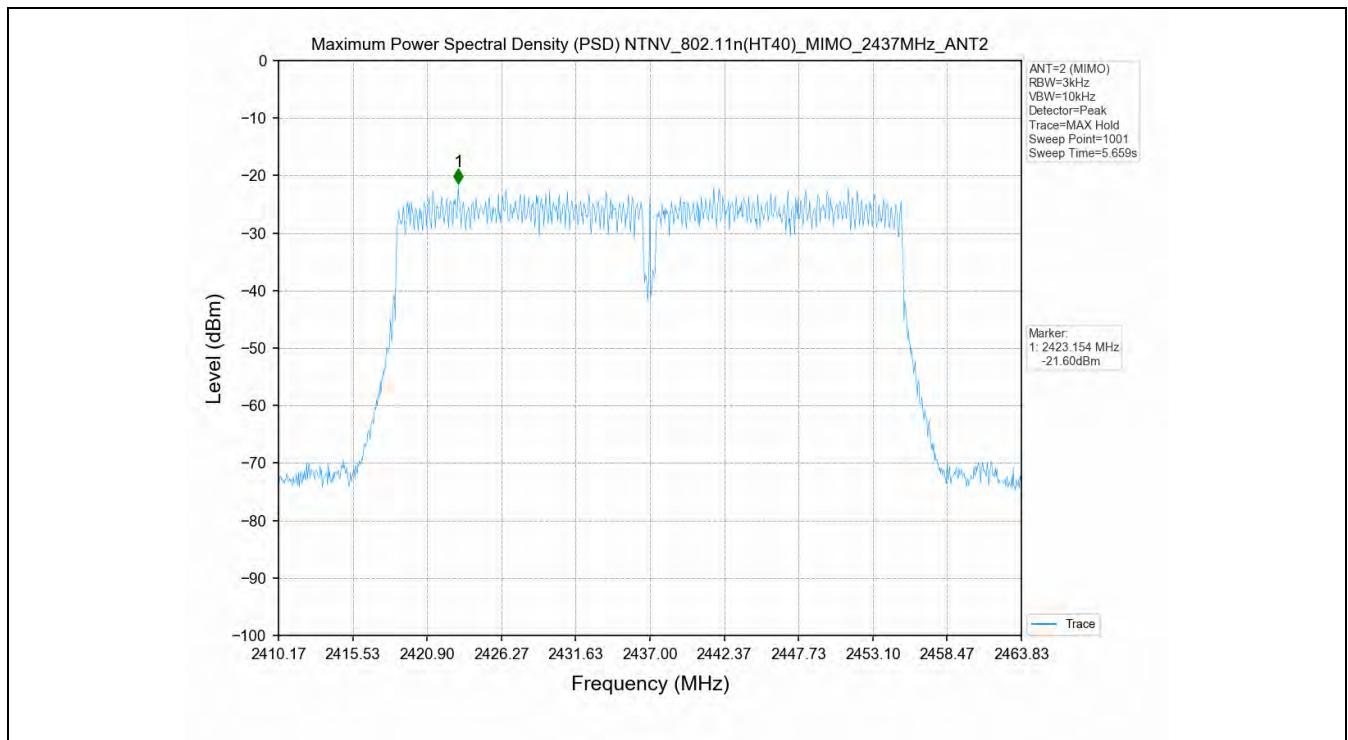
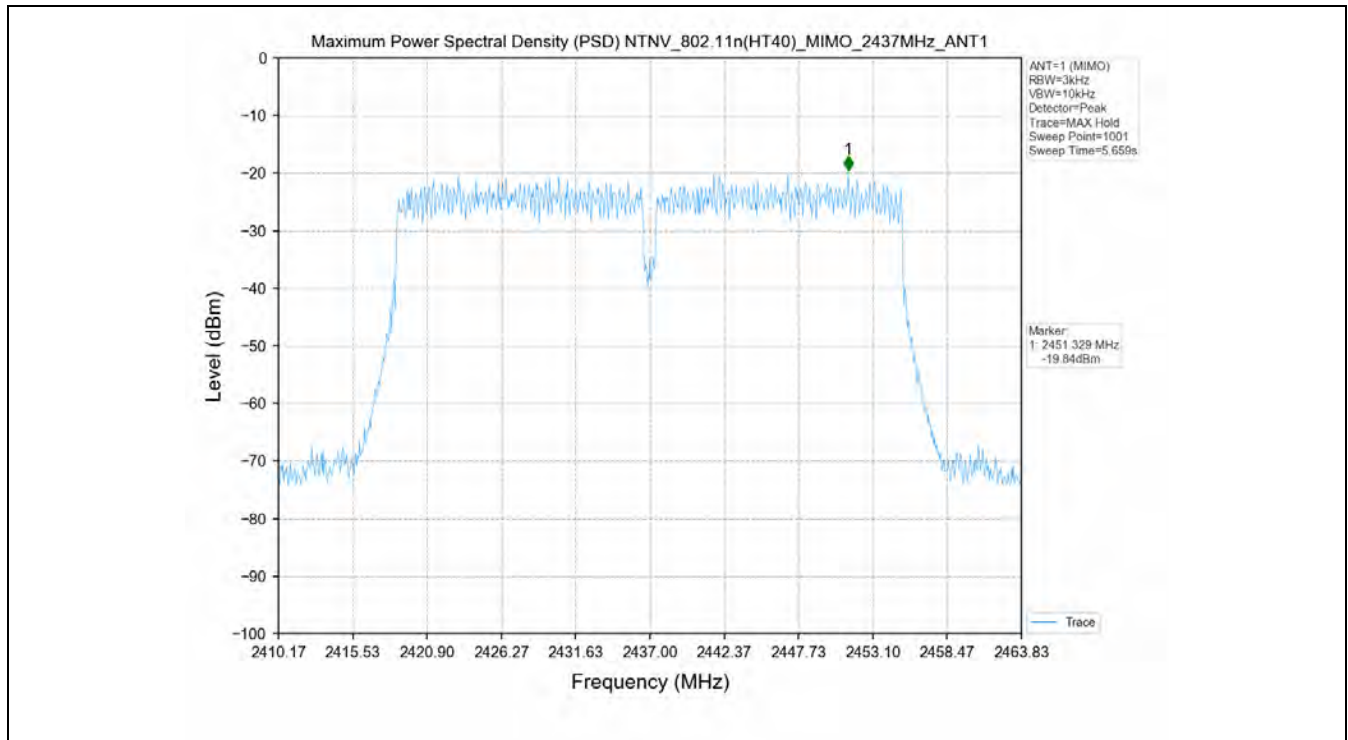


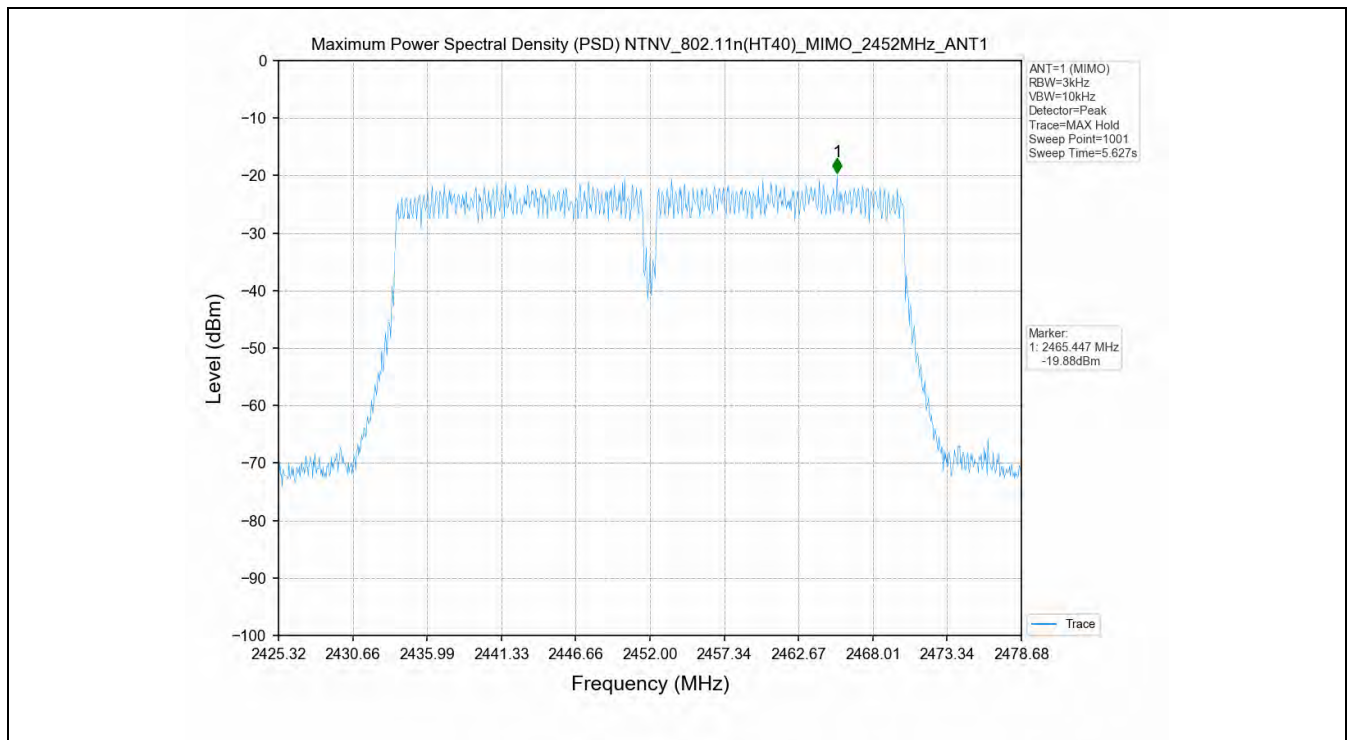
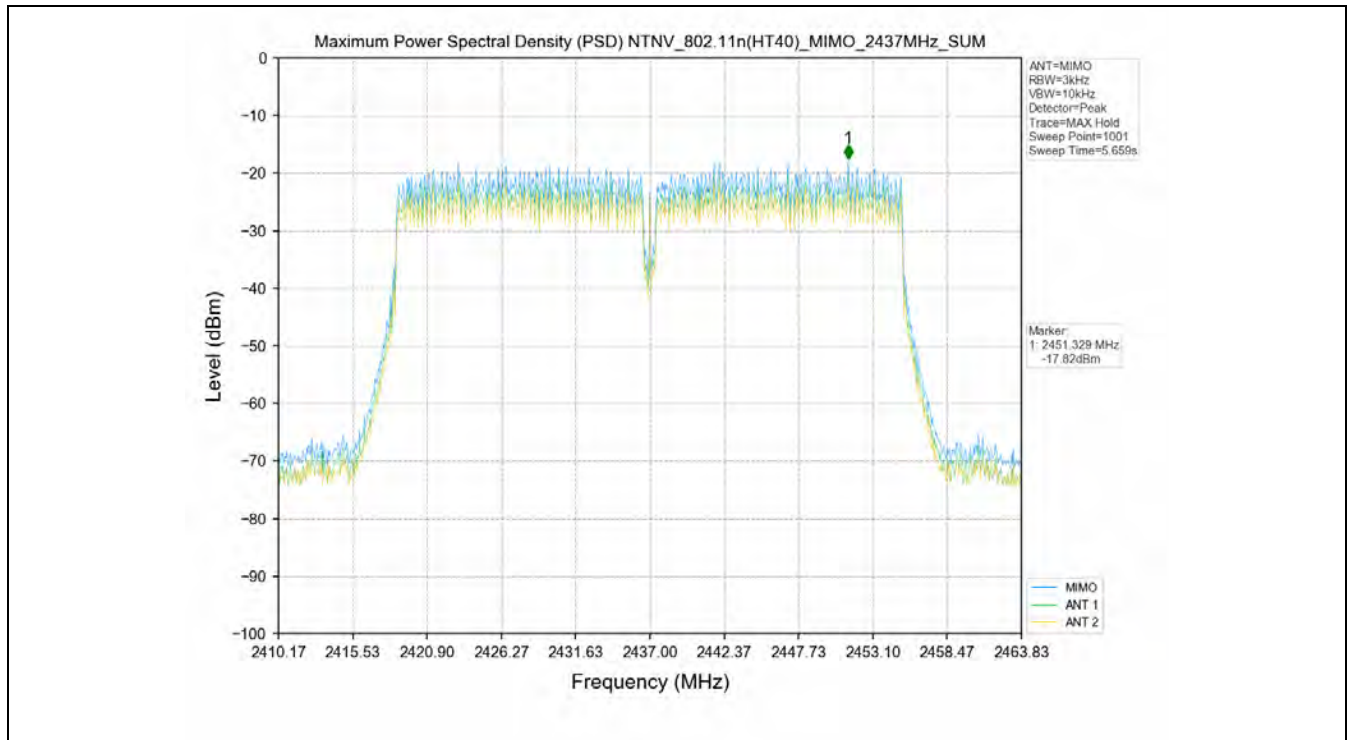


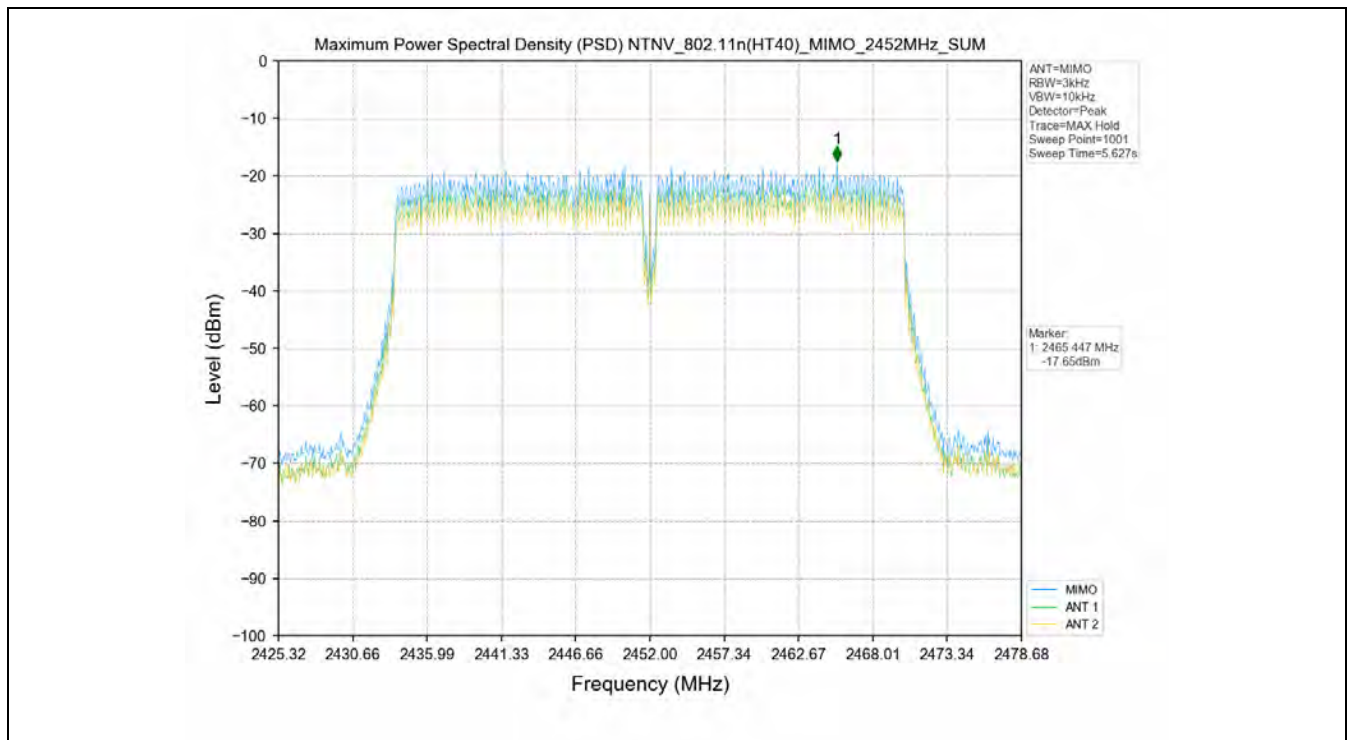
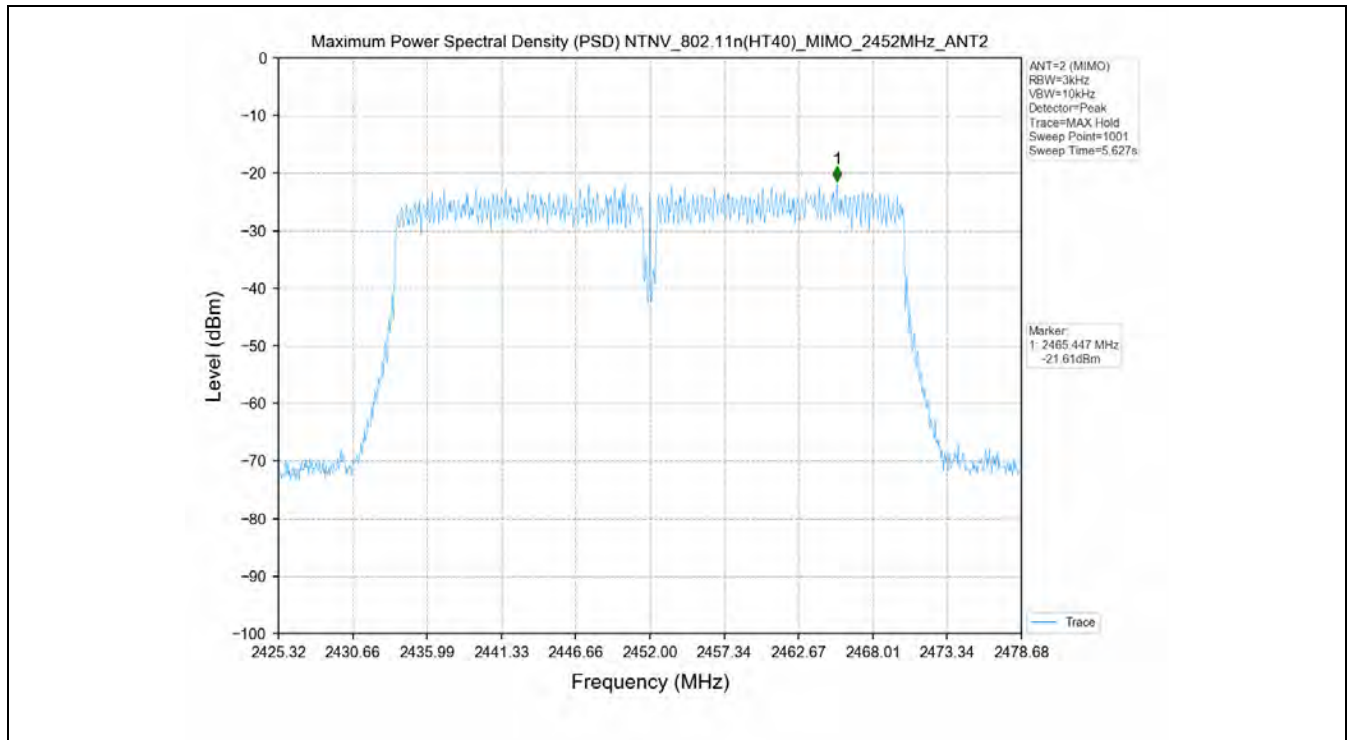














5. Unwanted Emissions in Non-restricted Frequency Bands

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	-14.01	PASS
			2	Refer to test graph	-14.01	PASS
	2437	SISO	1	Refer to test graph	-14.01	PASS
			2	Refer to test graph	-14.01	PASS
	2462	SISO	1	Refer to test graph	-14.01	PASS
			2	Refer to test graph	-14.01	PASS
802.11g	2412	SISO	1	Refer to test graph	-22.46	PASS
			2	Refer to test graph	-22.46	PASS
	2437	SISO	1	Refer to test graph	-22.46	PASS
			2	Refer to test graph	-22.46	PASS
	2462	SISO	1	Refer to test graph	-22.46	PASS
			2	Refer to test graph	-22.46	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-24.24	PASS
	2412	MIMO	2	Refer to test graph	-24.24	PASS
	2437	MIMO	1	Refer to test graph	-24.24	PASS
	2437	MIMO	2	Refer to test graph	-24.24	PASS
	2462	MIMO	1	Refer to test graph	-24.24	PASS
	2462	MIMO	2	Refer to test graph	-24.24	PASS
802.11n(HT40)	2422	MIMO	1	Refer to test graph	-27.04	PASS
	2422	MIMO	2	Refer to test graph	-27.04	PASS
	2437	MIMO	1	Refer to test graph	-27.04	PASS
	2437	MIMO	2	Refer to test graph	-27.04	PASS
	2452	MIMO	1	Refer to test graph	-27.04	PASS
	2452	MIMO	2	Refer to test graph	-27.04	PASS

5.2 Test Graph

