



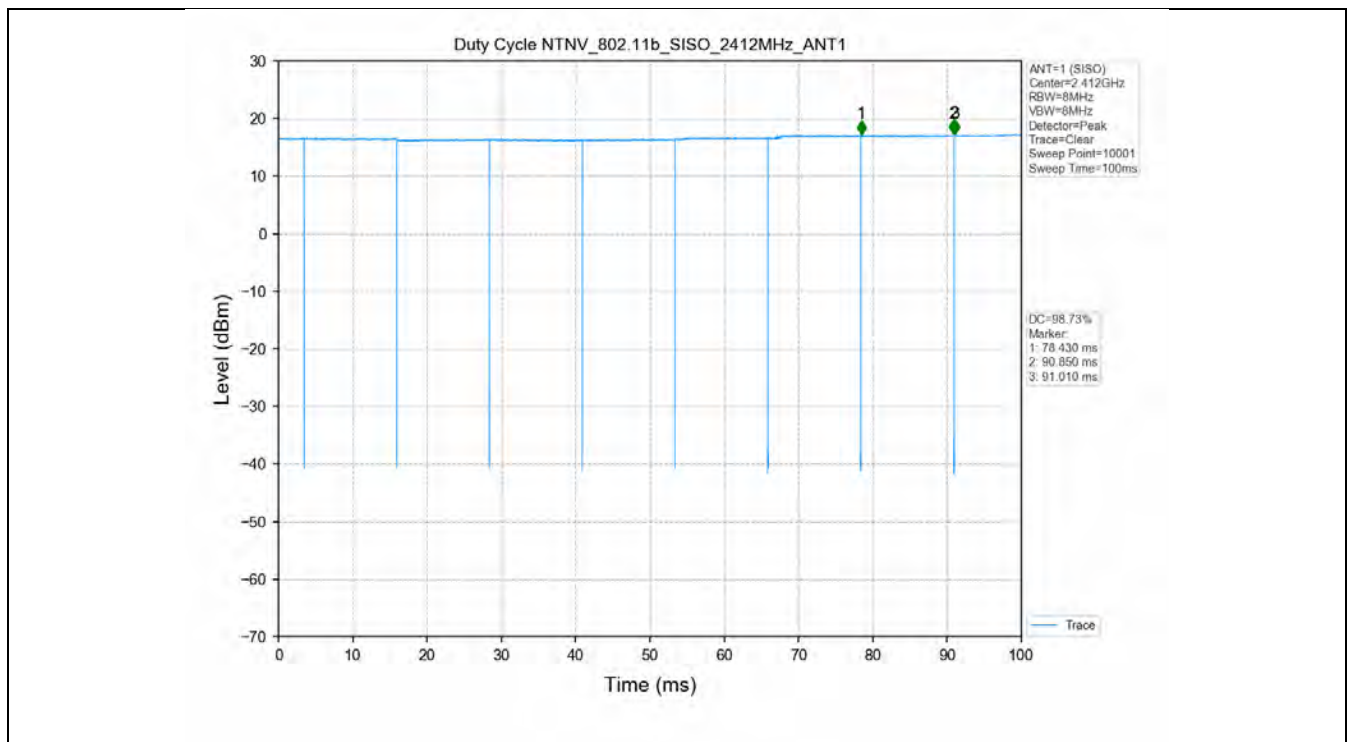
Appendix A for SHEM200400266201

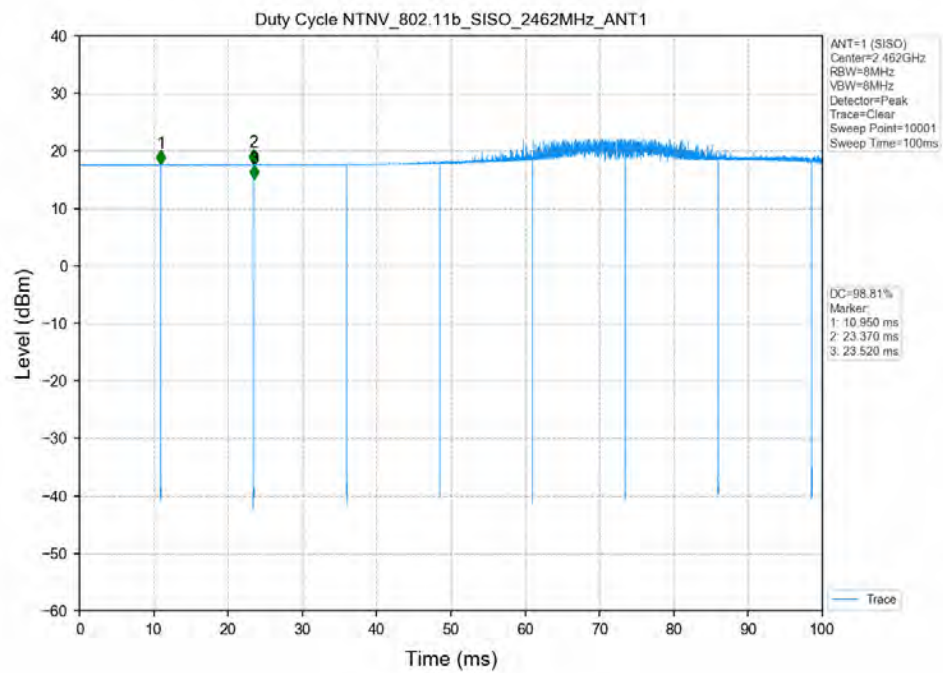
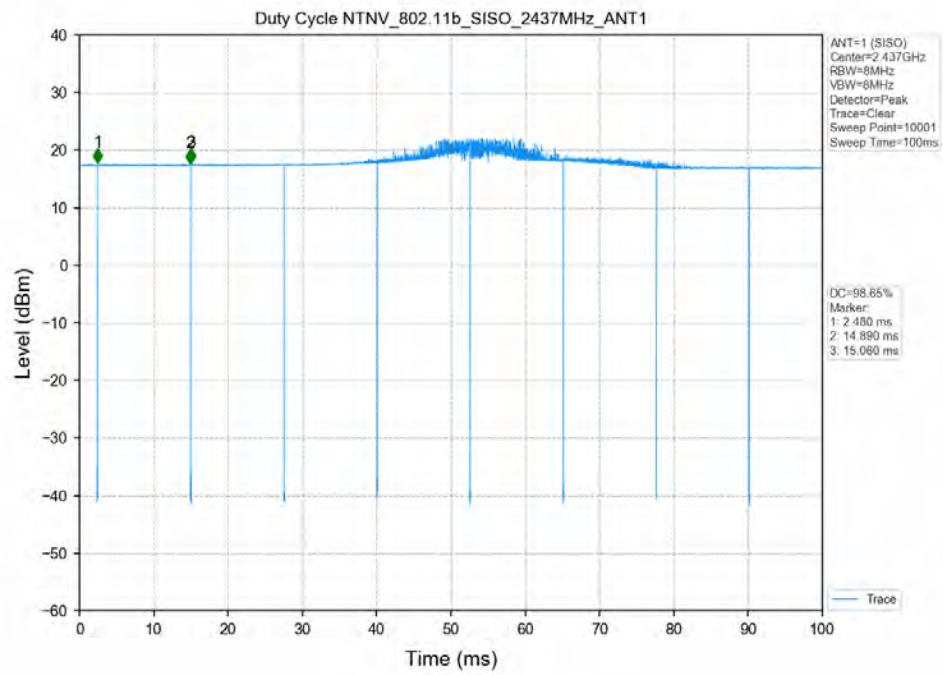
1. Duty Cycle

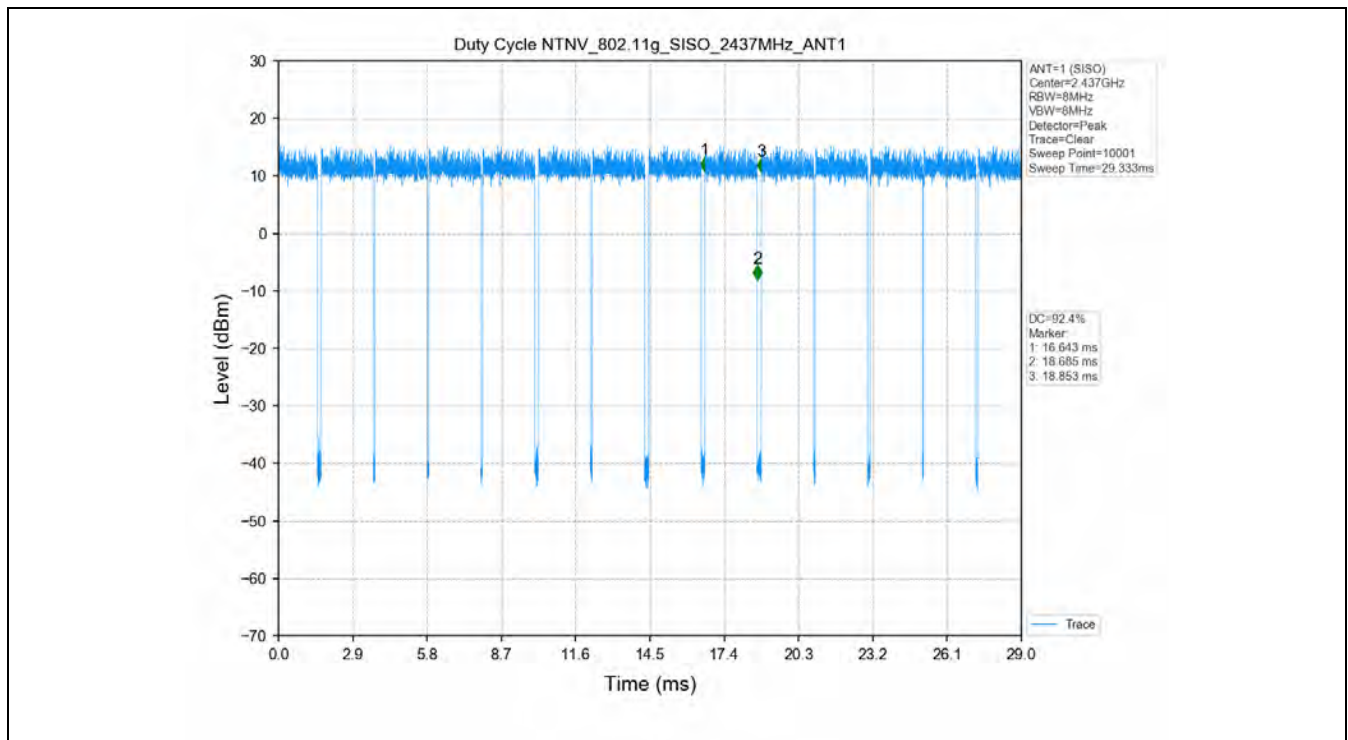
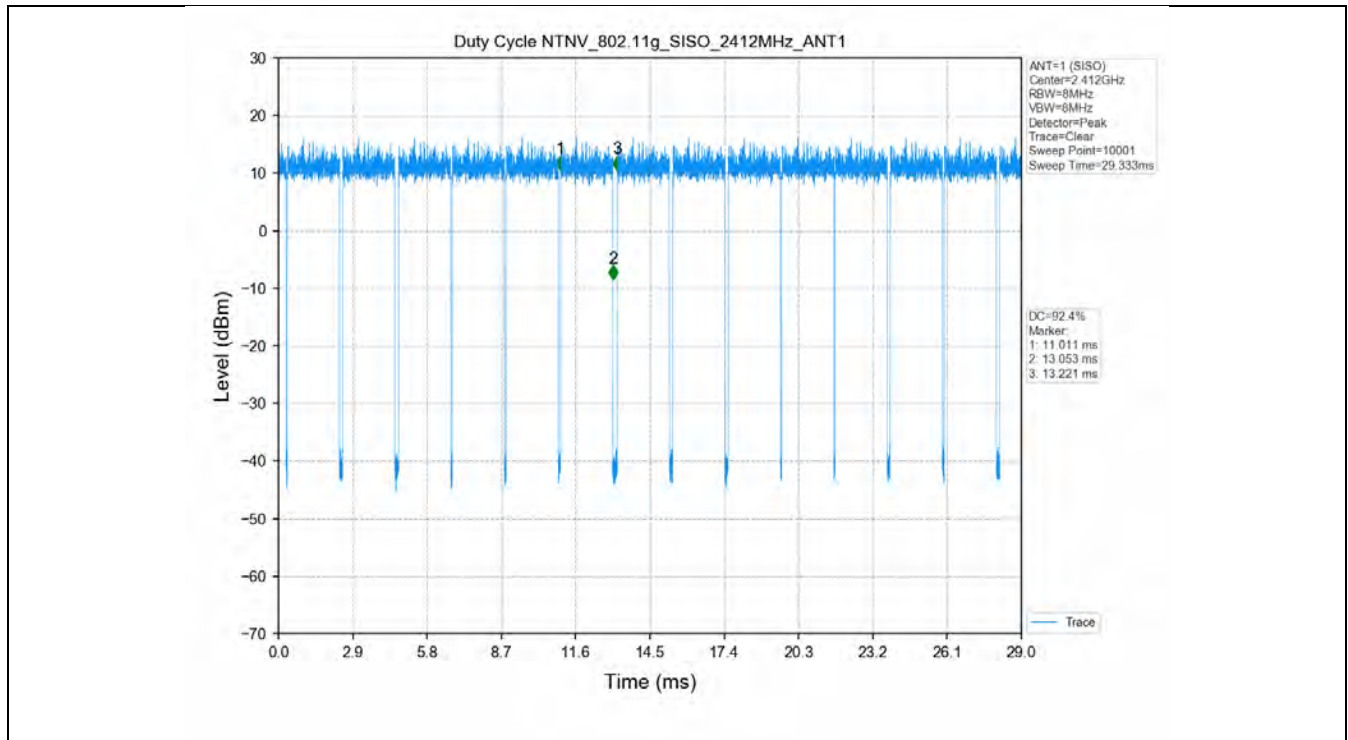
1.1 Test Result

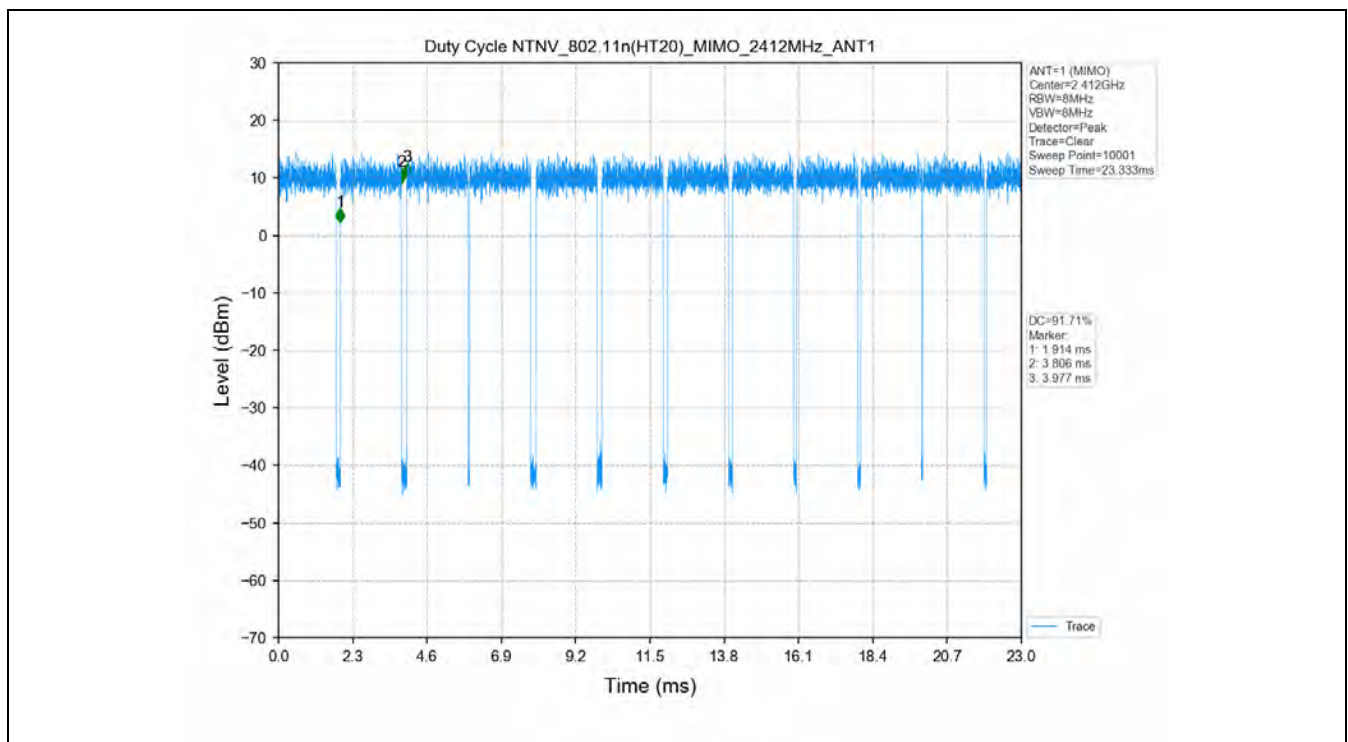
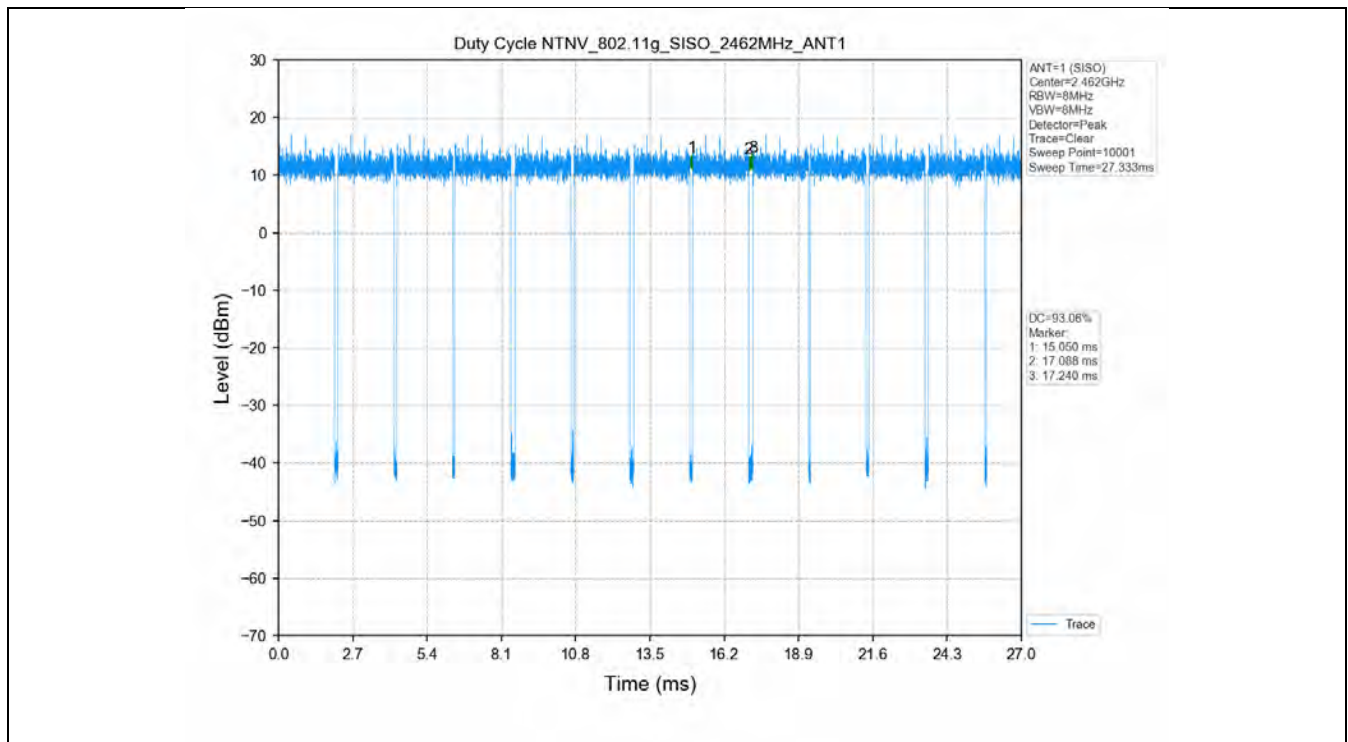
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.420	12.580	98.73	0.06
	2437	SISO	1	12.410	12.580	98.65	0.06
	2462	SISO	1	12.420	12.570	98.81	0.05
802.11g	2412	SISO	1	2.042	2.210	92.40	0.34
	2437	SISO	1	2.042	2.210	92.40	0.34
	2462	SISO	1	2.038	2.190	93.06	0.31
802.11n(HT20)	2412	MIMO	1	1.892	2.063	91.71	0.38
	2437	MIMO	1	1.920	2.092	91.78	0.37
	2462	MIMO	1	1.920	2.084	92.13	0.36
802.11n(HT40)	2422	MIMO	1	0.945	1.116	84.68	0.72
	2437	MIMO	1	0.943	1.087	86.75	0.62
	2452	MIMO	1	0.921	1.087	84.73	0.72

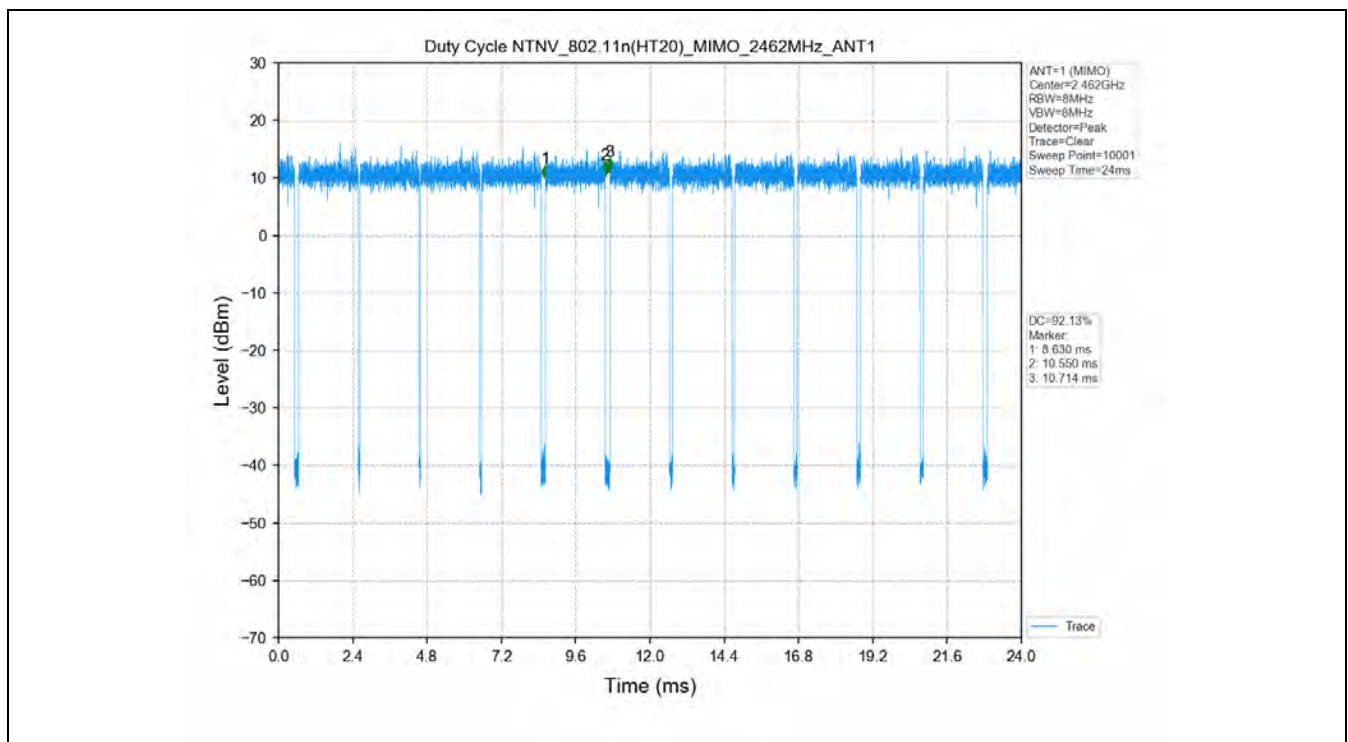
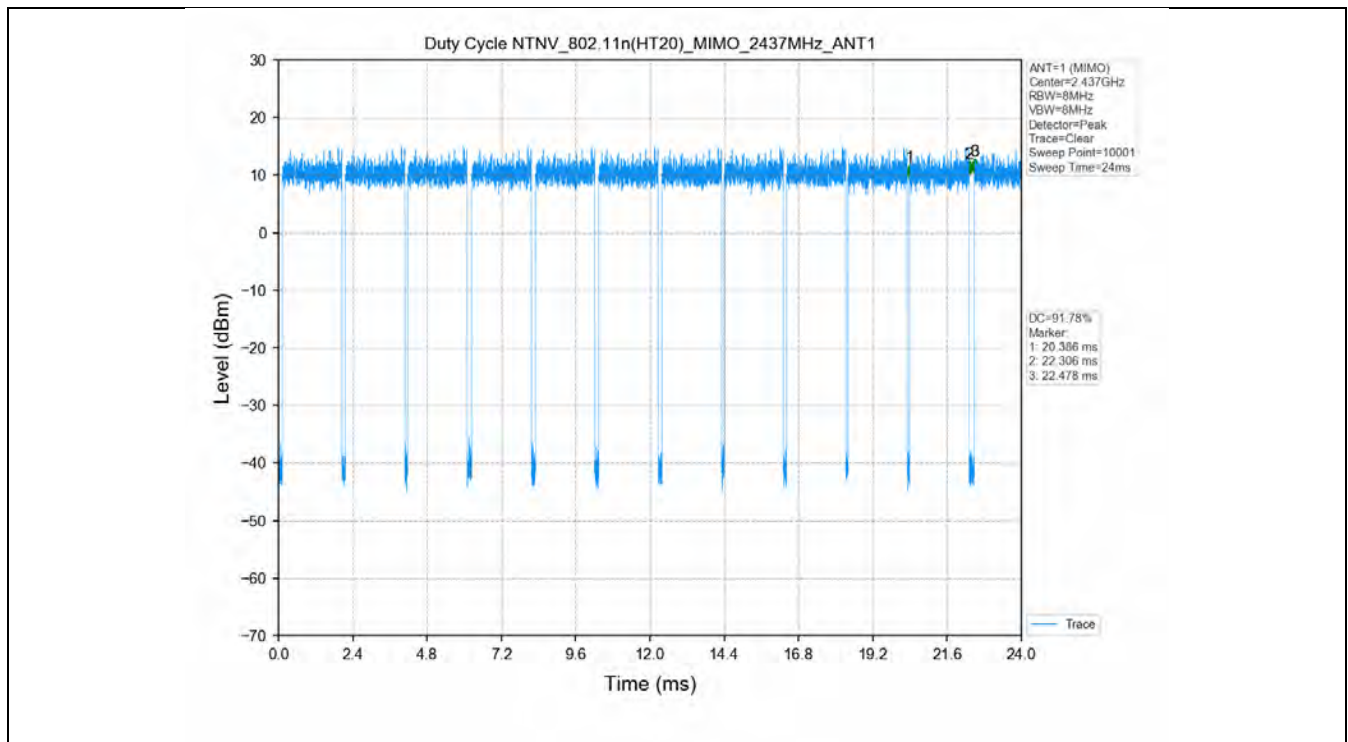
1.2 Test Graph

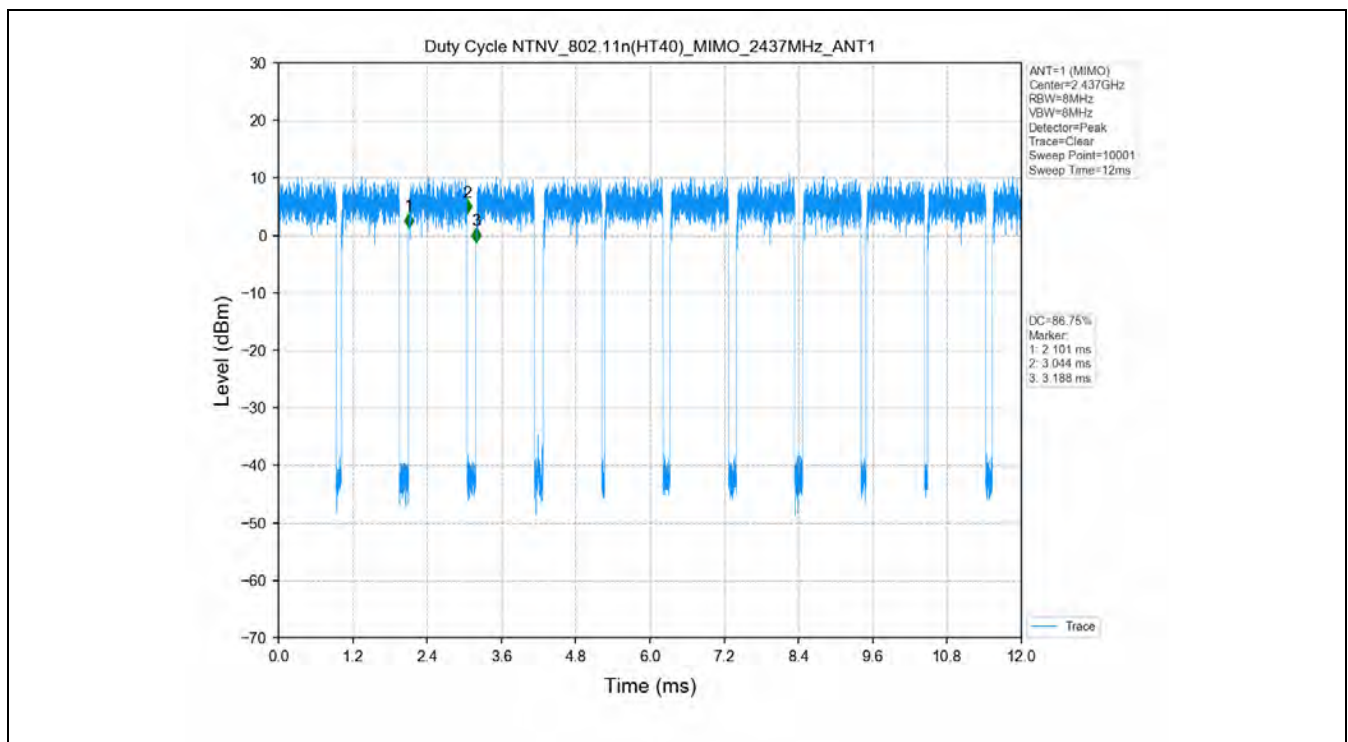
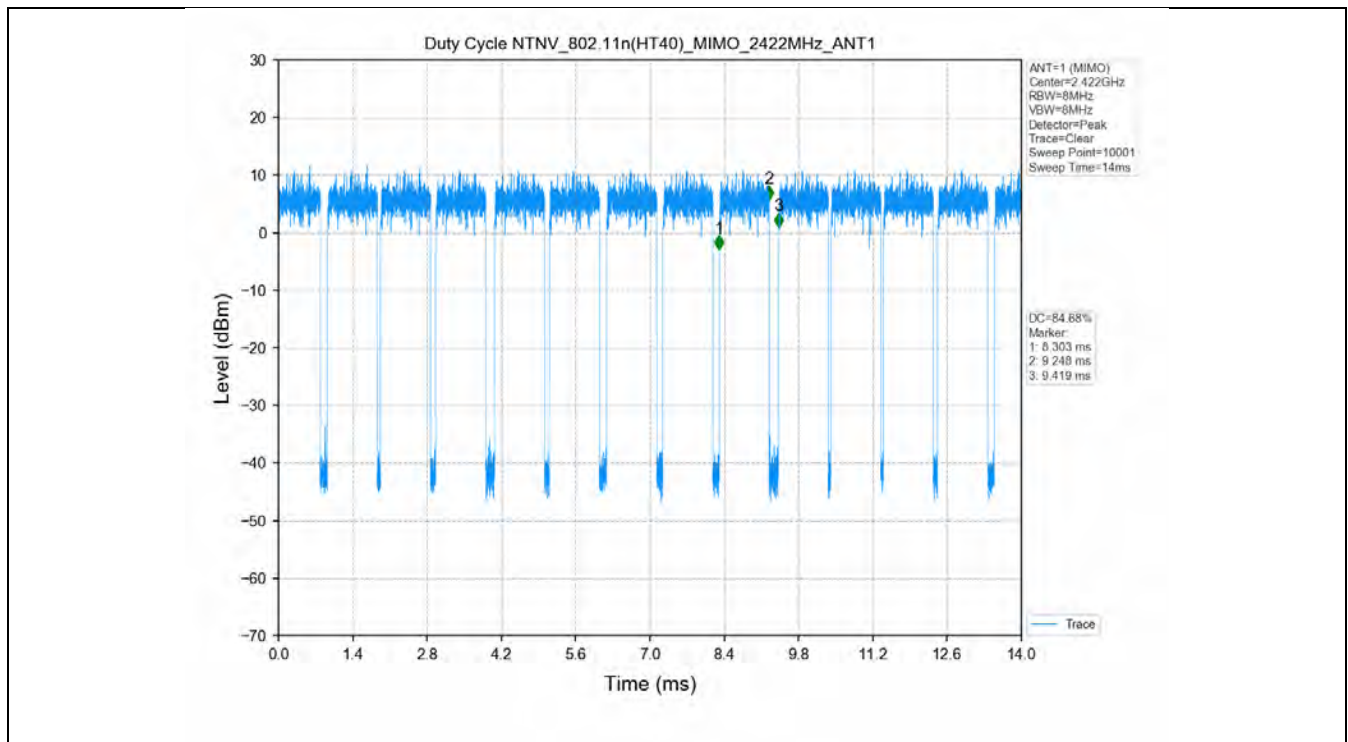


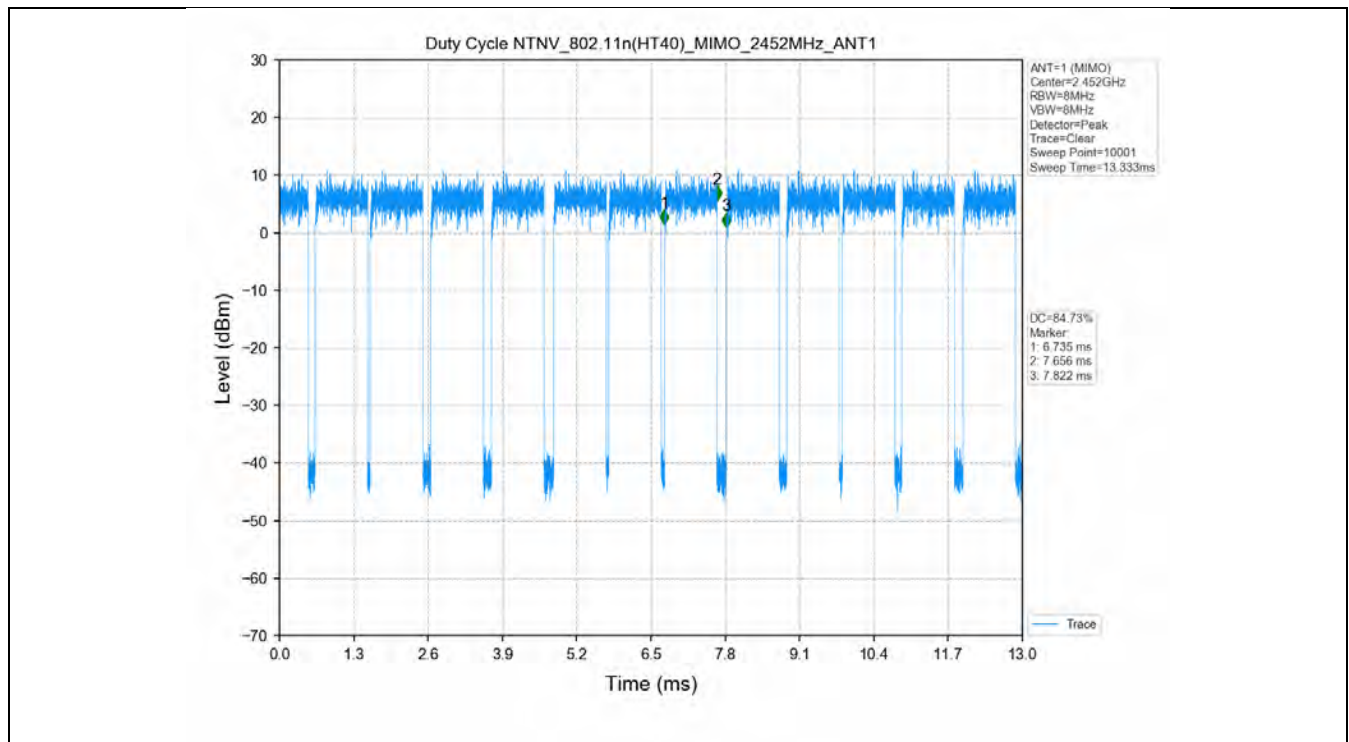












2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	10.074	≥ 0.5	PASS
			2	10.079	≥ 0.5	PASS
	2437	SISO	1	9.581	≥ 0.5	PASS
			2	9.584	≥ 0.5	PASS
	2462	SISO	1	10.073	≥ 0.5	PASS
			2	10.046	≥ 0.5	PASS
802.11g	2412	SISO	1	16.443	≥ 0.5	PASS
			2	16.407	≥ 0.5	PASS
	2437	SISO	1	16.410	≥ 0.5	PASS
			2	16.414	≥ 0.5	PASS
	2462	SISO	1	16.419	≥ 0.5	PASS
			2	16.414	≥ 0.5	PASS
802.11n(HT20)	2412	MIMO	1	17.642	≥ 0.5	PASS
			2	17.630	≥ 0.5	PASS
	2437	MIMO	1	17.617	≥ 0.5	PASS
			2	17.644	≥ 0.5	PASS
	2462	MIMO	1	17.638	≥ 0.5	PASS
			2	17.626	≥ 0.5	PASS
802.11n(HT40)	2422	MIMO	1	35.522	≥ 0.5	PASS
			2	35.548	≥ 0.5	PASS
	2437	MIMO	1	35.826	≥ 0.5	PASS

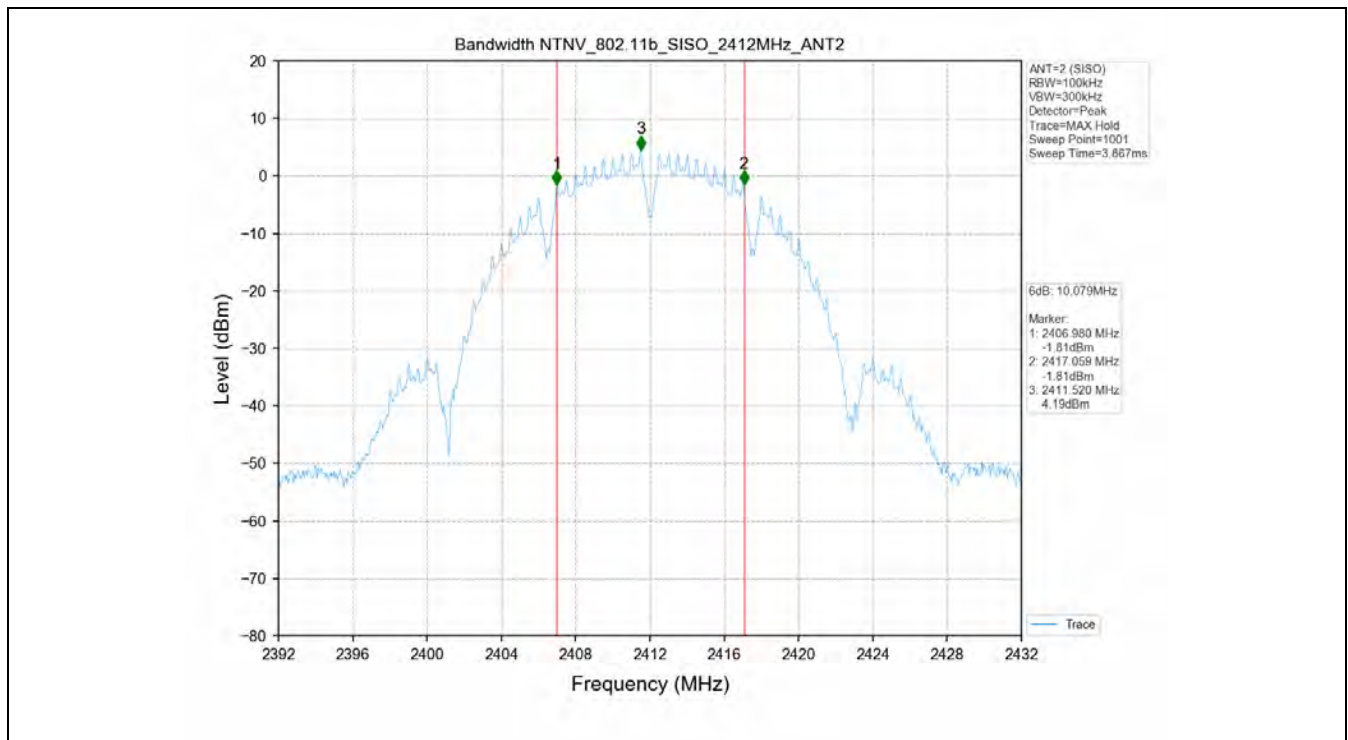
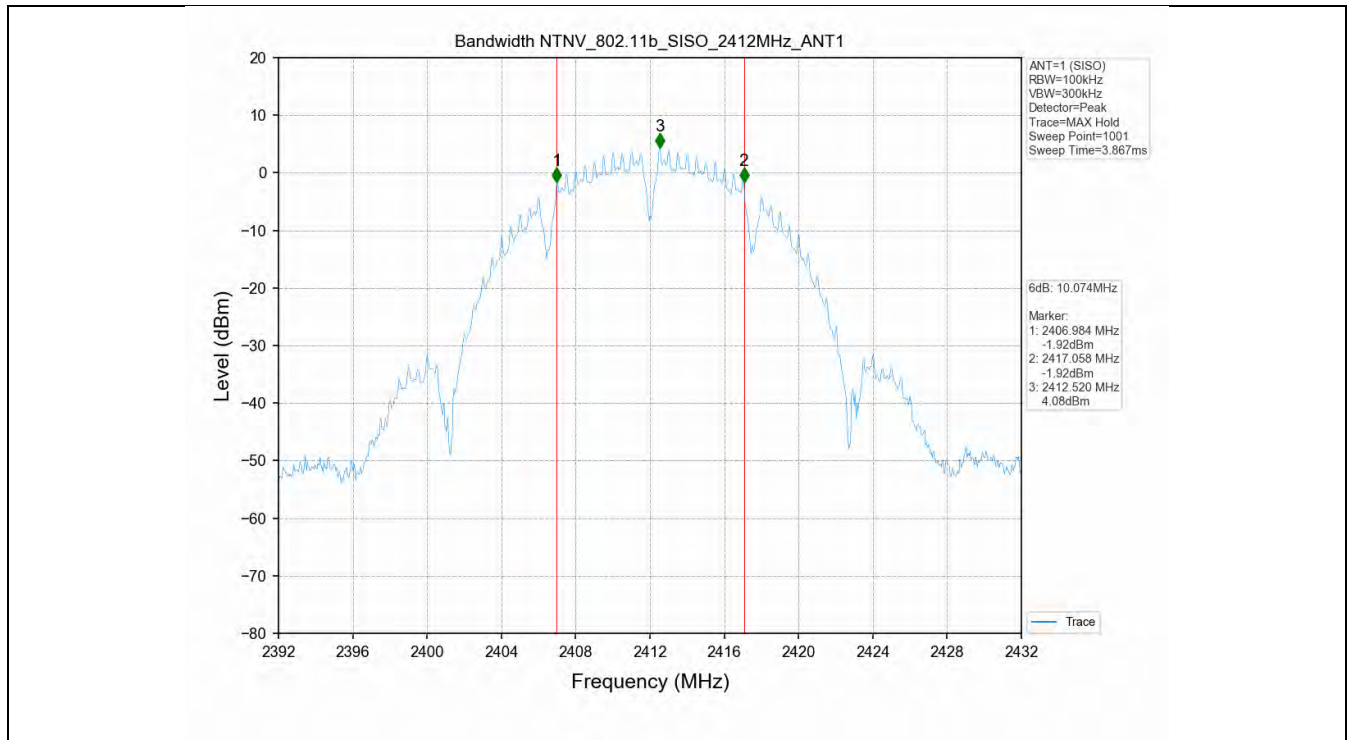


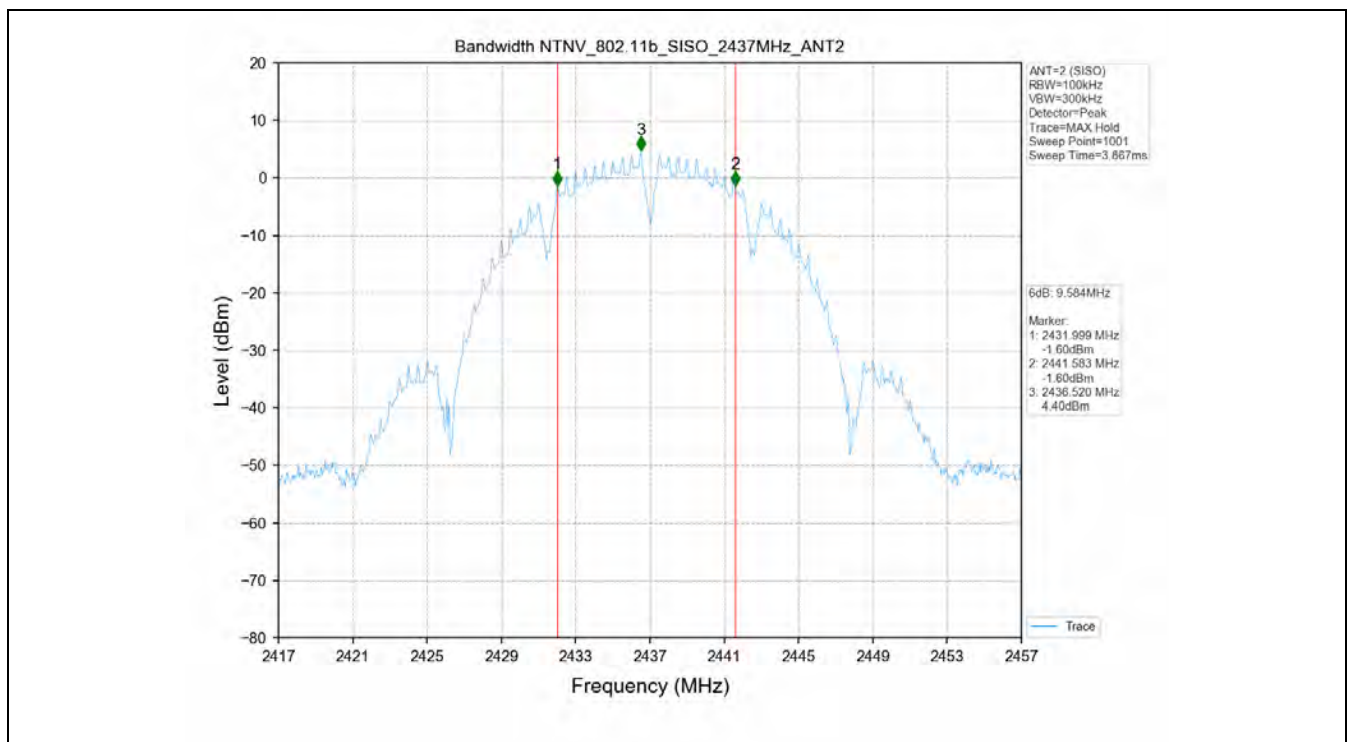
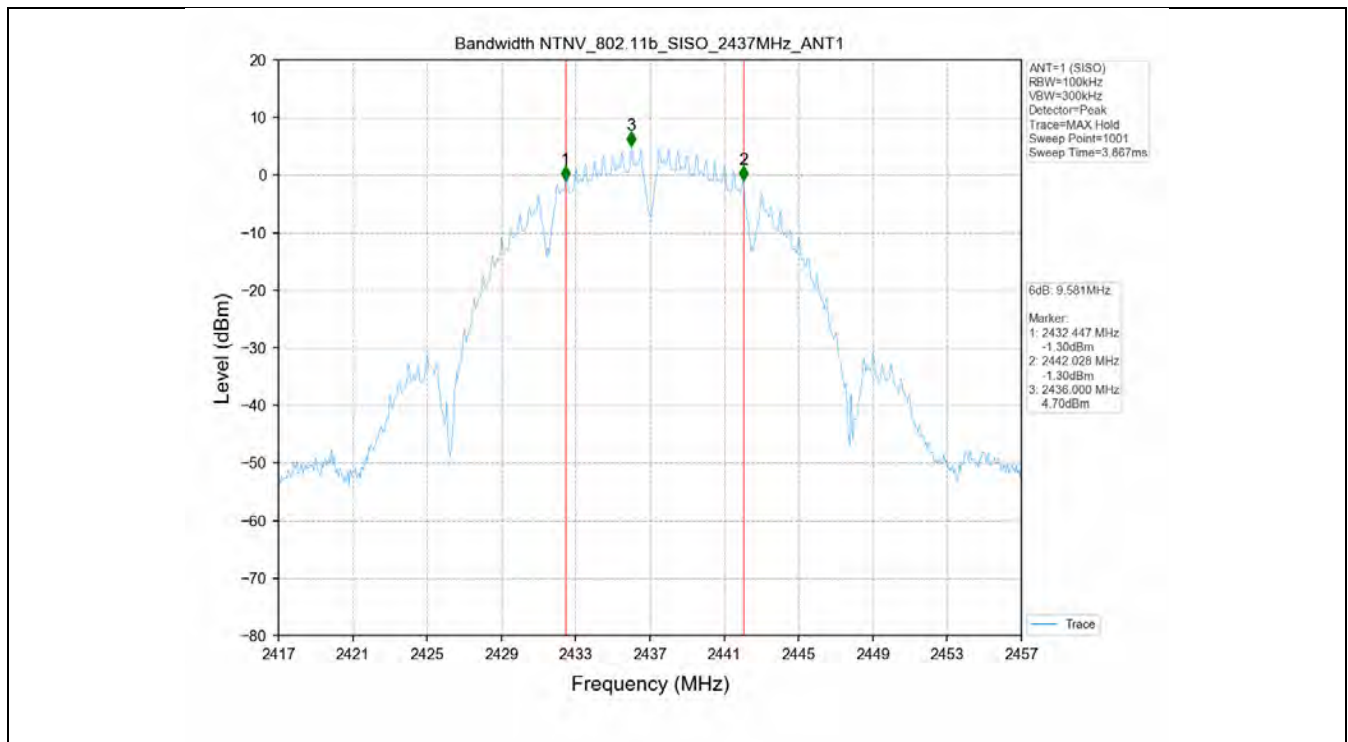
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

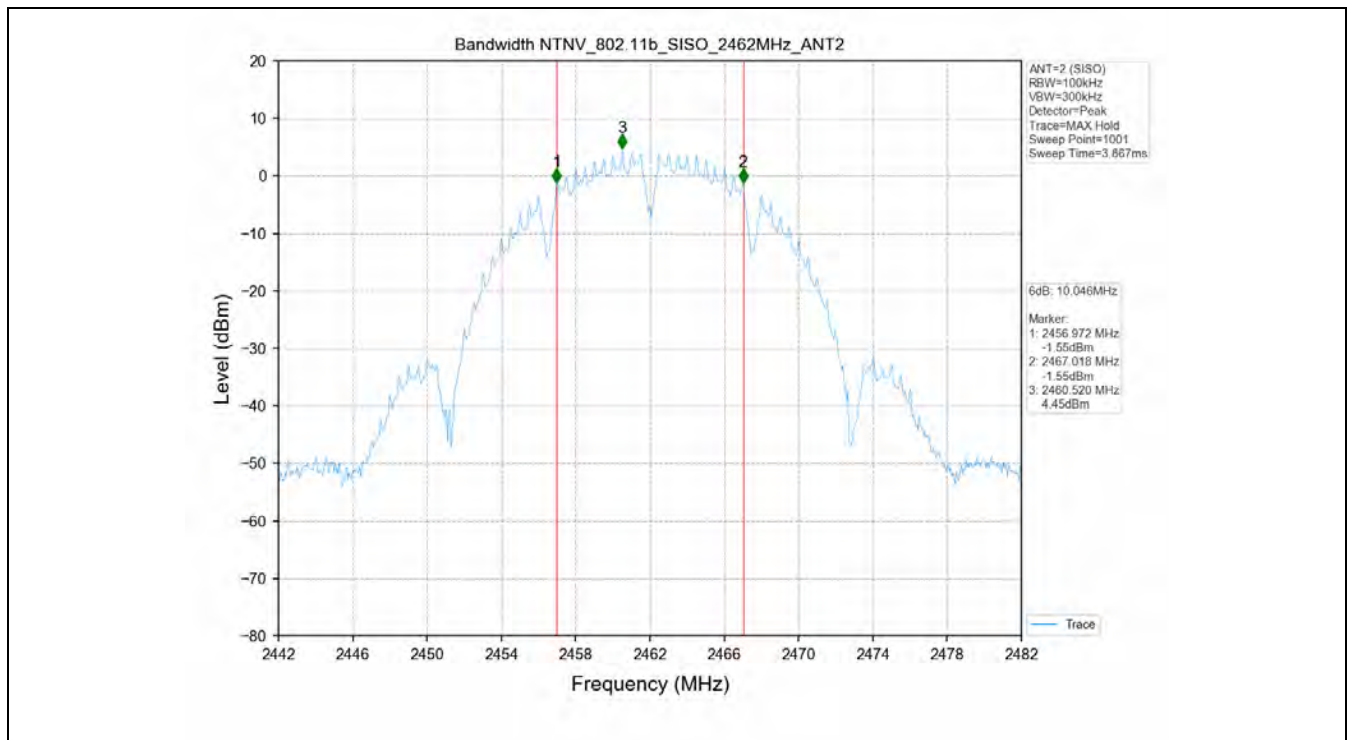
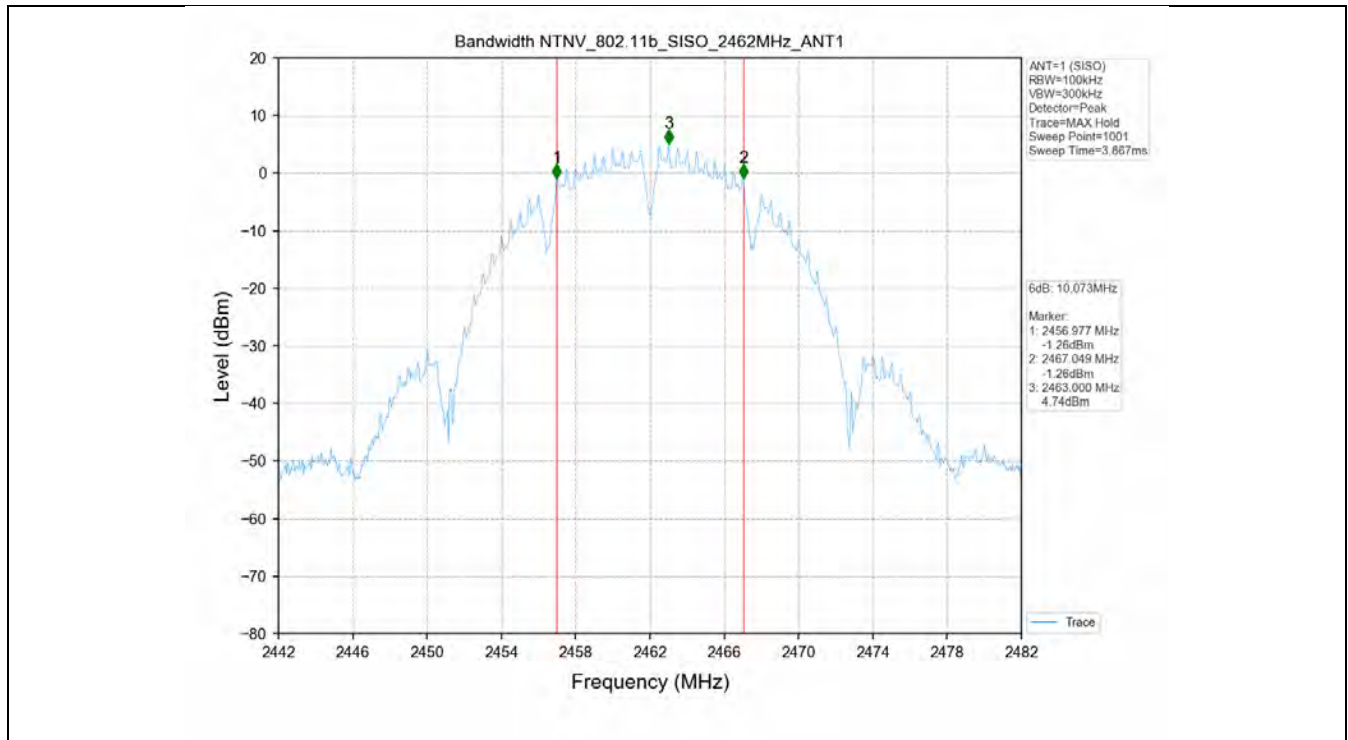
			2	35.789	≥ 0.5	PASS
	2452	MIMO	1	35.390	≥ 0.5	PASS
			2	36.056	≥ 0.5	PASS

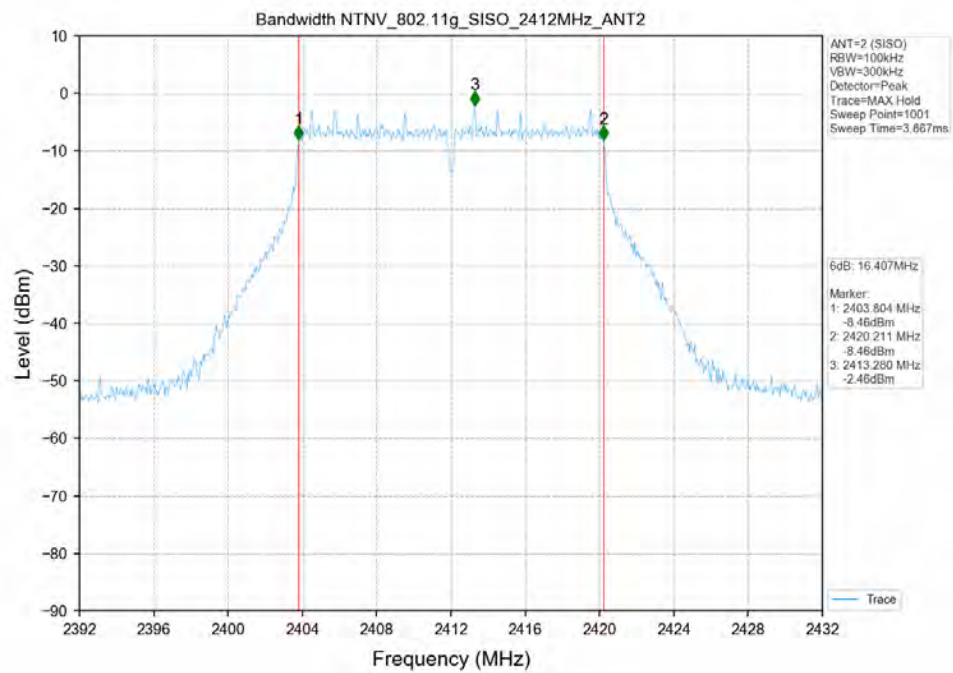
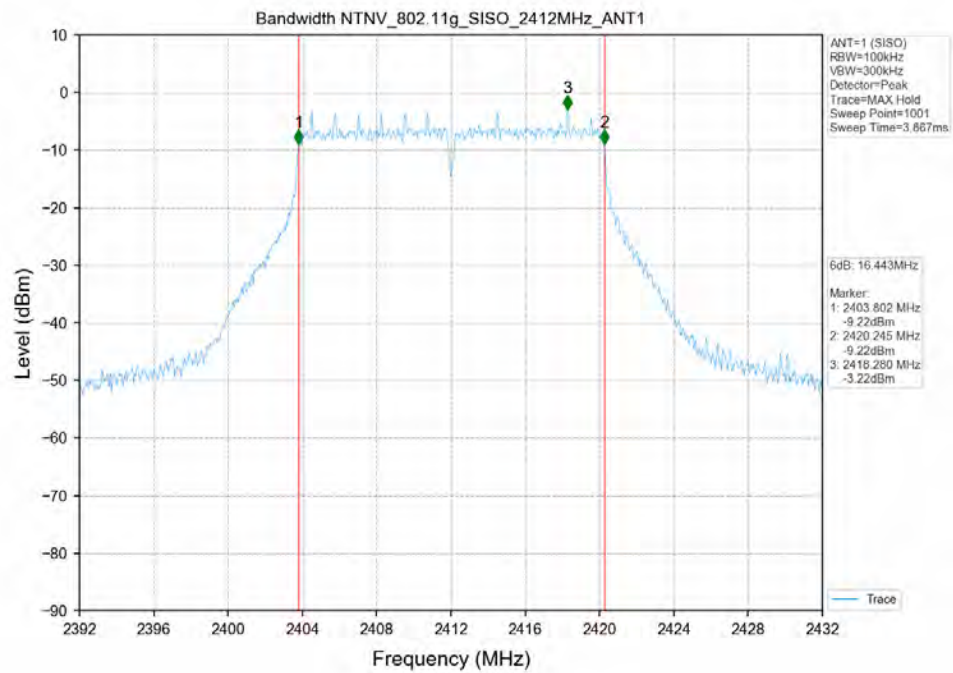
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.086	Only for Report Use
			2	15.117	Only for Report Use
	2437	SISO	1	15.092	Only for Report Use
			2	15.115	Only for Report Use
	2462	SISO	1	15.087	Only for Report Use
			2	15.106	Only for Report Use
802.11g	2412	SISO	1	16.966	Only for Report Use
			2	17.070	Only for Report Use
	2437	SISO	1	17.004	Only for Report Use
			2	17.015	Only for Report Use
	2462	SISO	1	17.056	Only for Report Use
			2	16.964	Only for Report Use
802.11n(HT20)	2412	MIMO	1	18.059	Only for Report Use
			2	18.051	Only for Report Use
	2437	MIMO	1	18.039	Only for Report Use
			2	18.035	Only for Report Use
	2462	MIMO	1	18.171	Only for Report Use
			2	18.150	Only for Report Use
802.11n(HT40)	2422	MIMO	1	36.586	Only for Report Use
			2	36.622	Only for Report Use
	2437	MIMO	1	36.713	Only for Report Use
			2	36.843	Only for Report Use
	2452	MIMO	1	36.619	Only for Report Use
			2	36.718	Only for Report Use

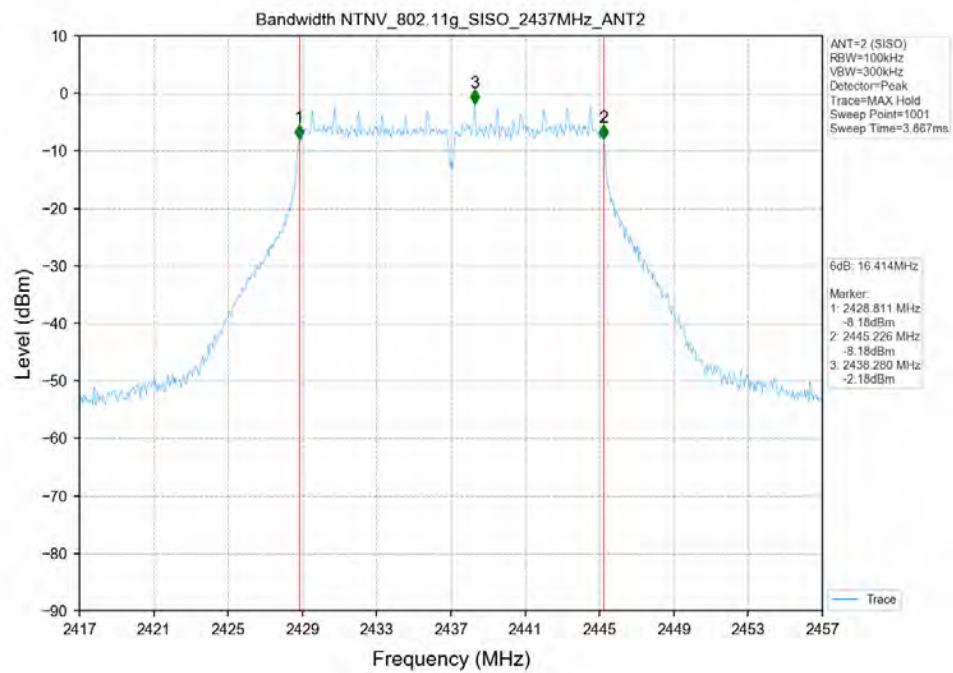
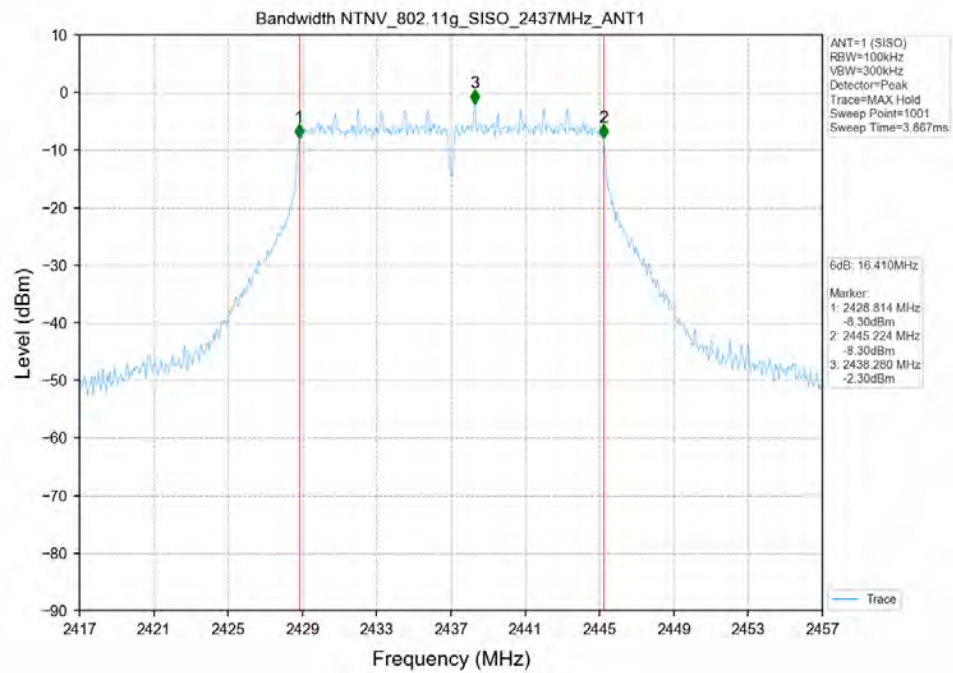
2.2 Test Graph - 6dB Bandwidth

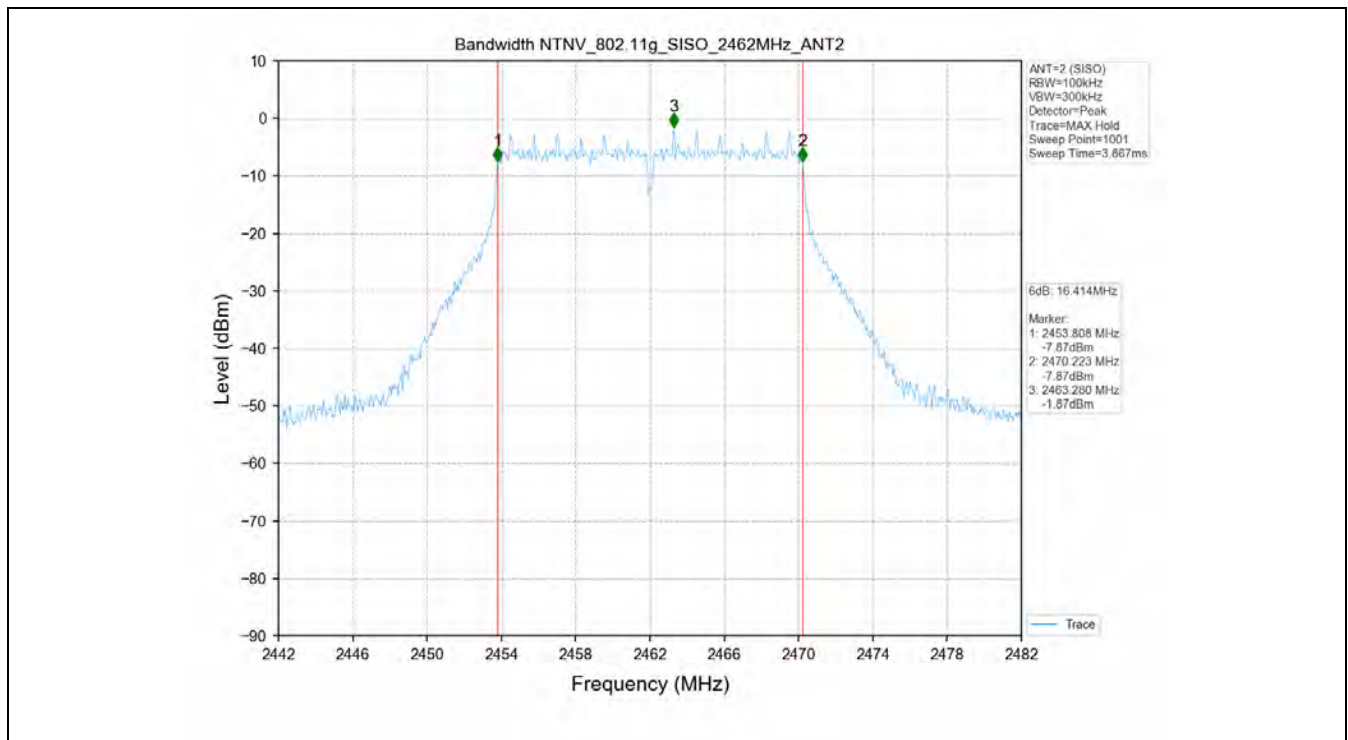
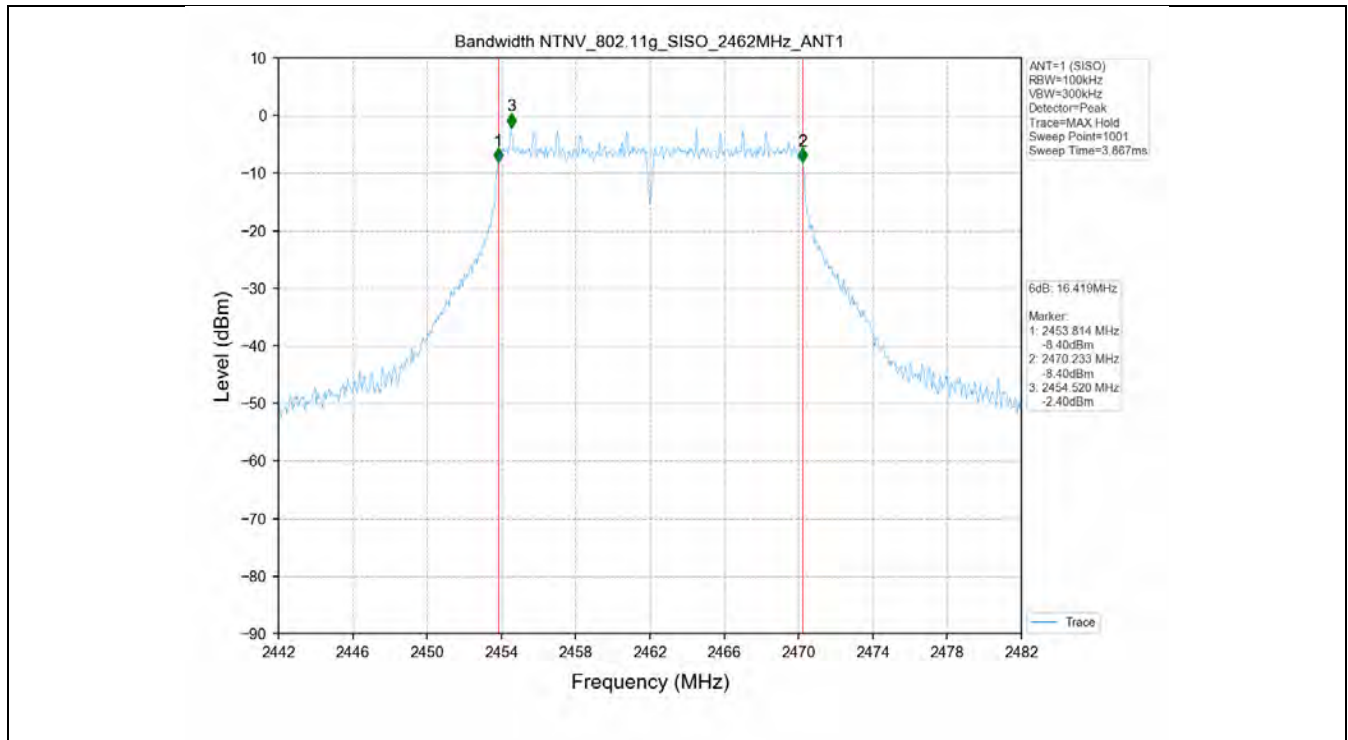


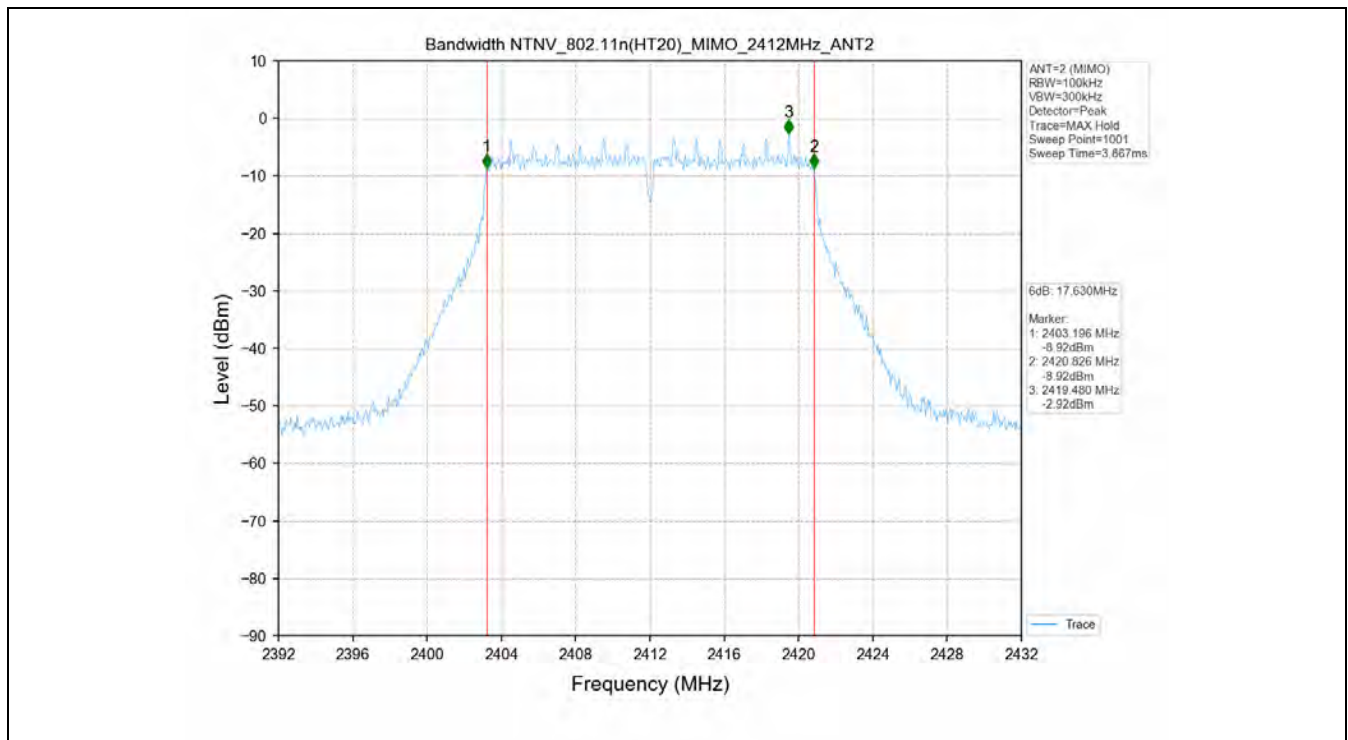
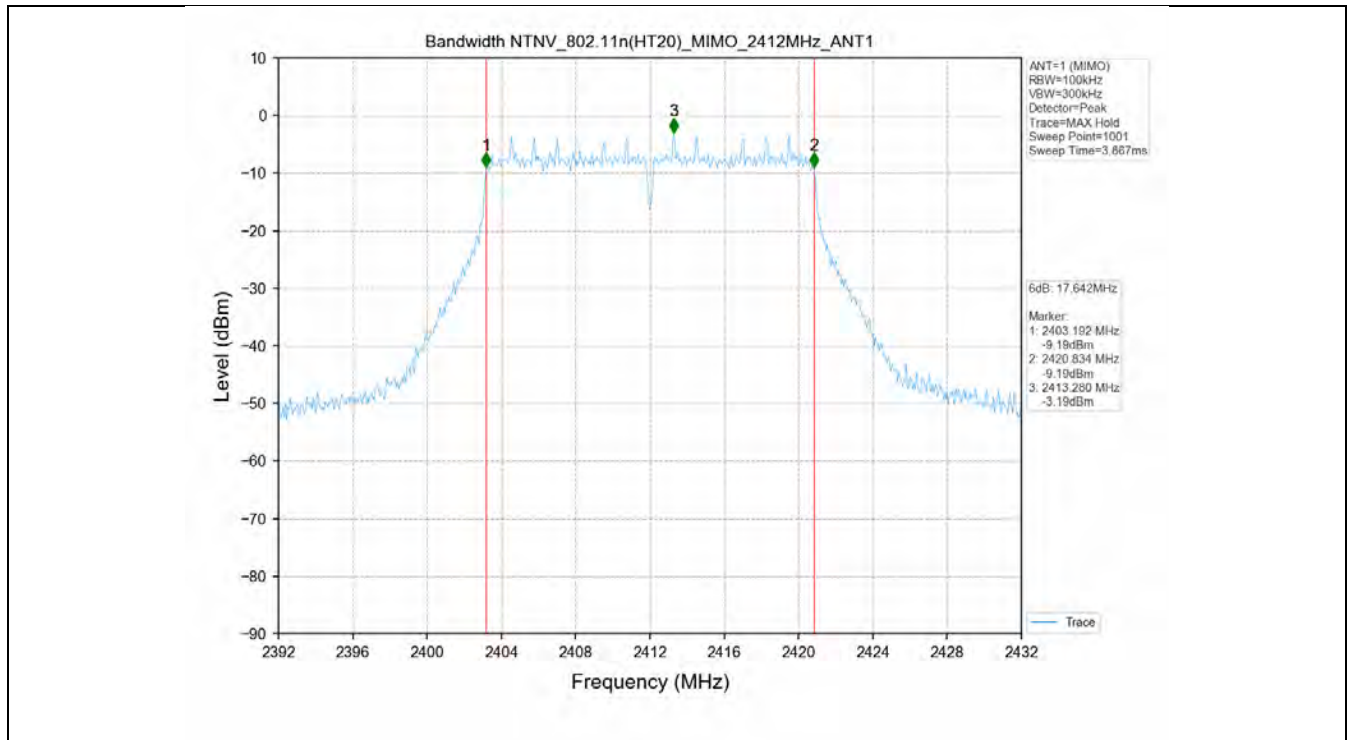


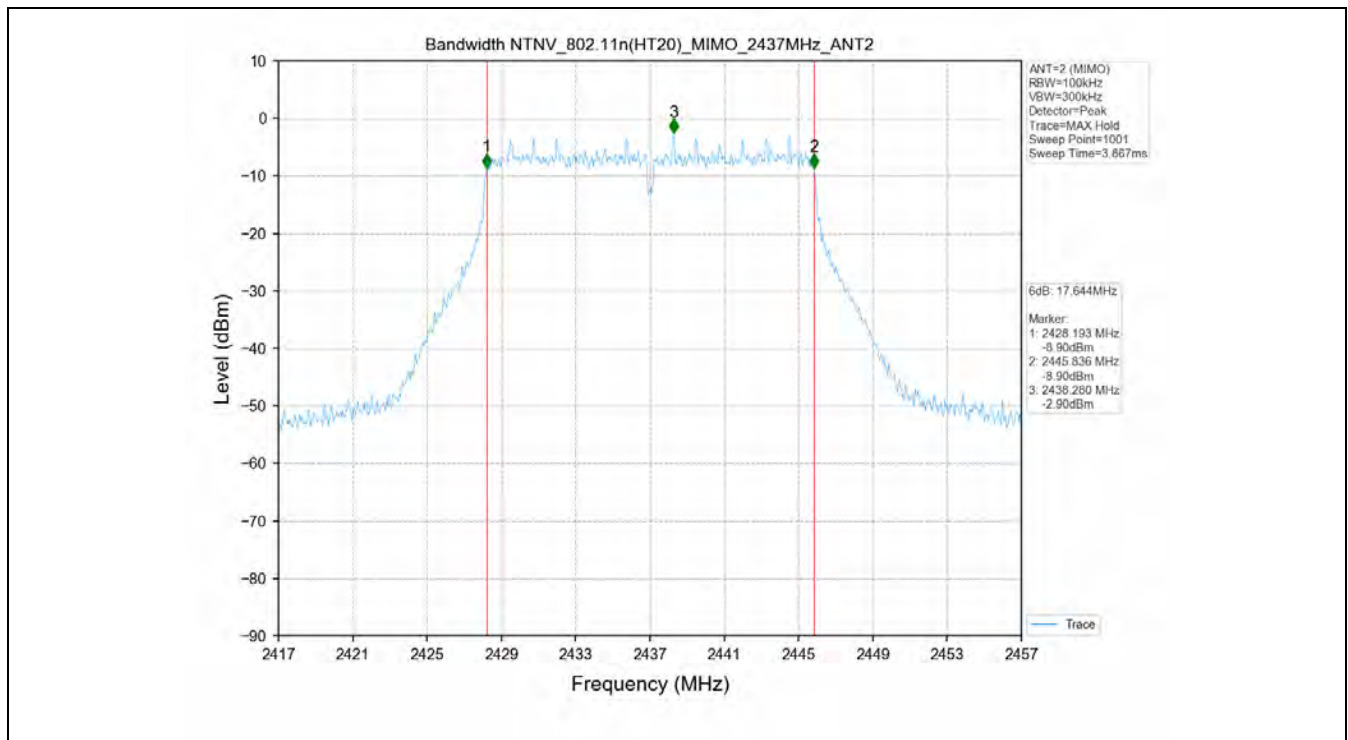
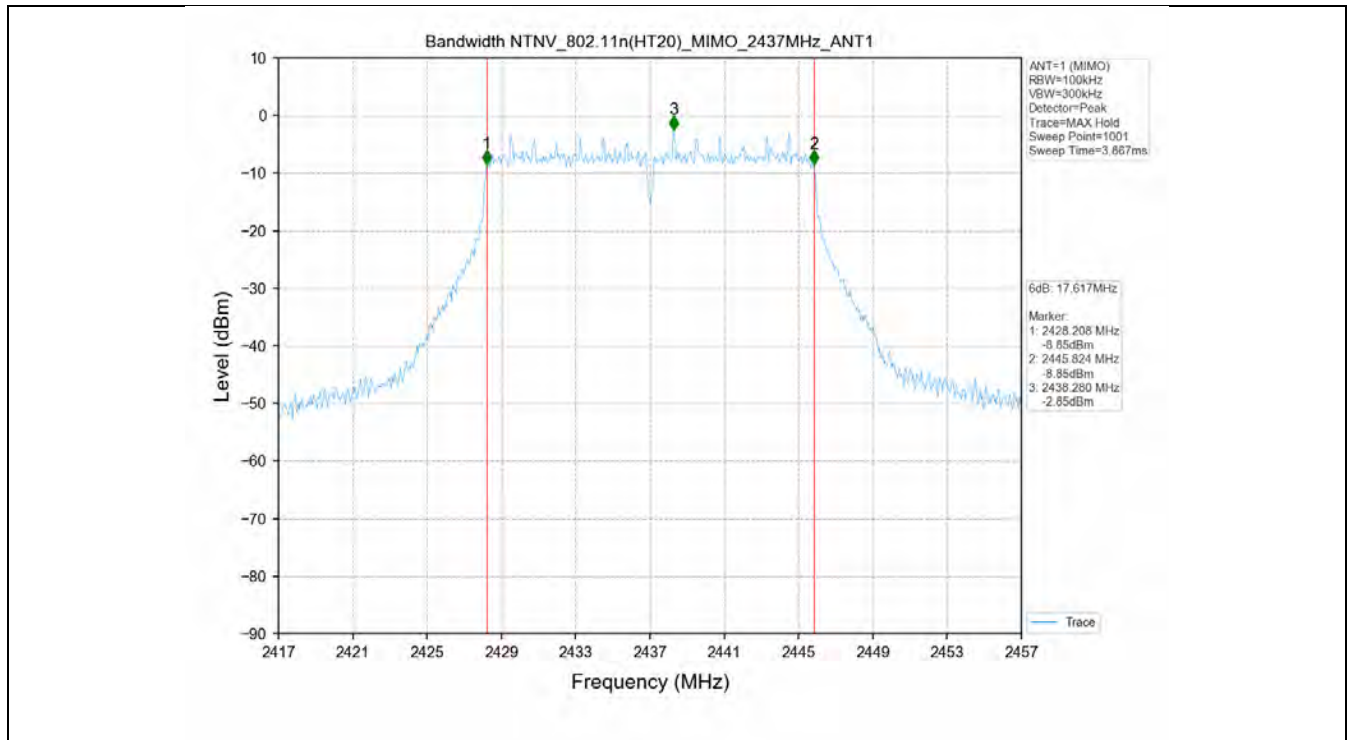


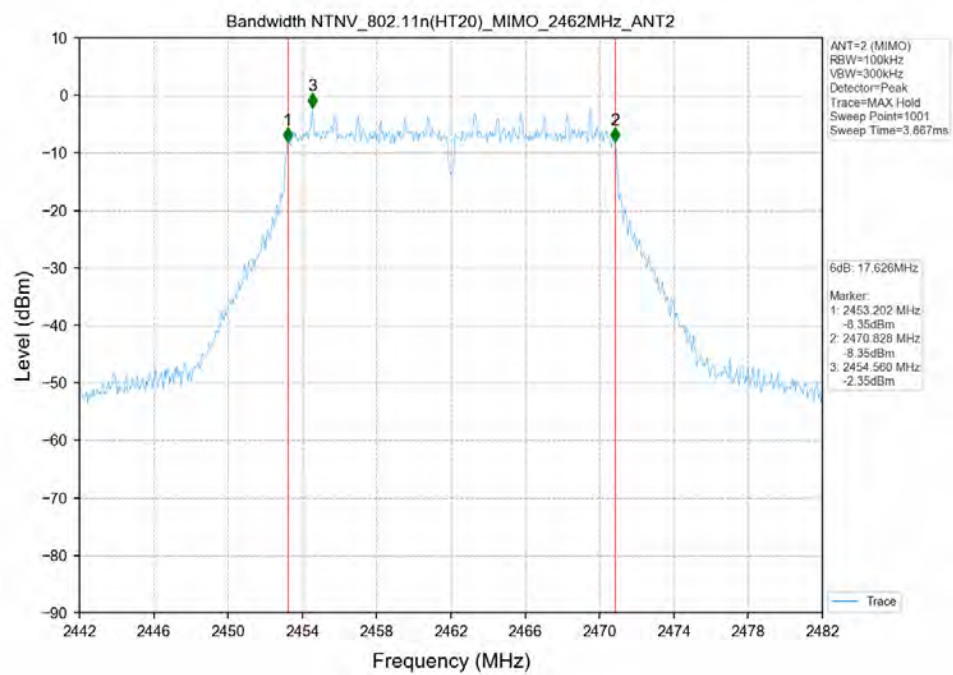
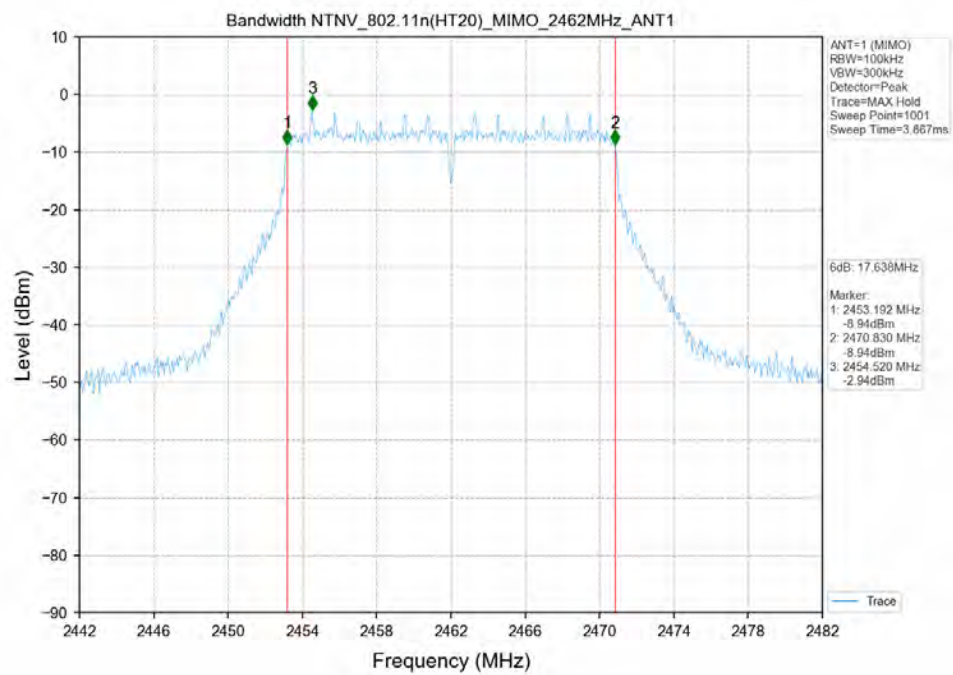


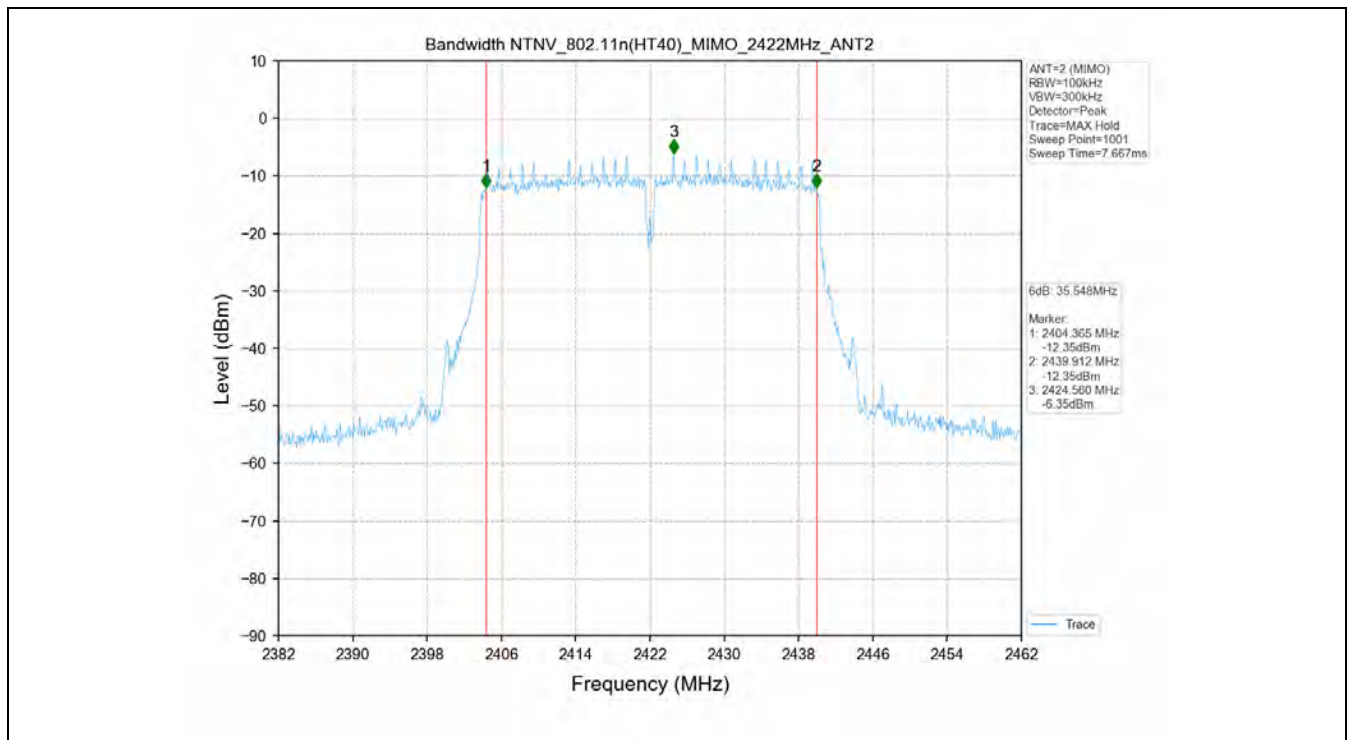
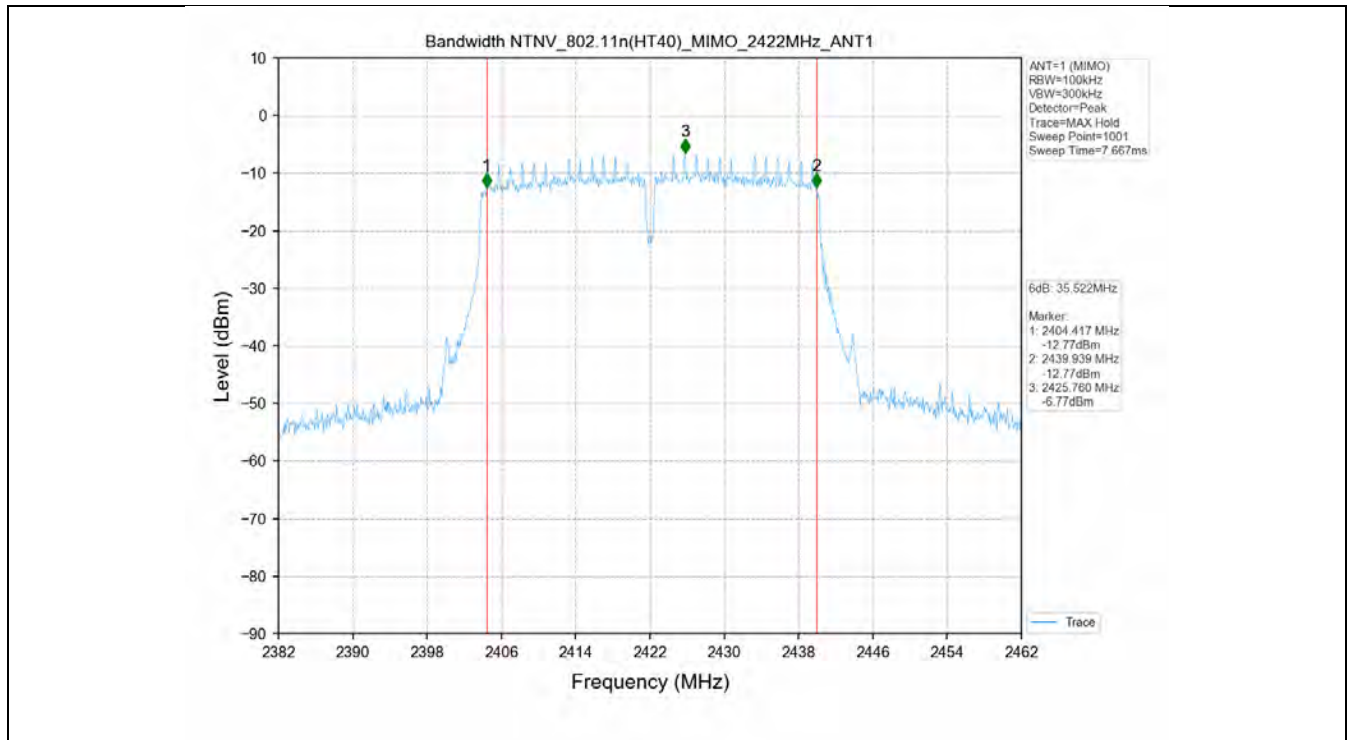


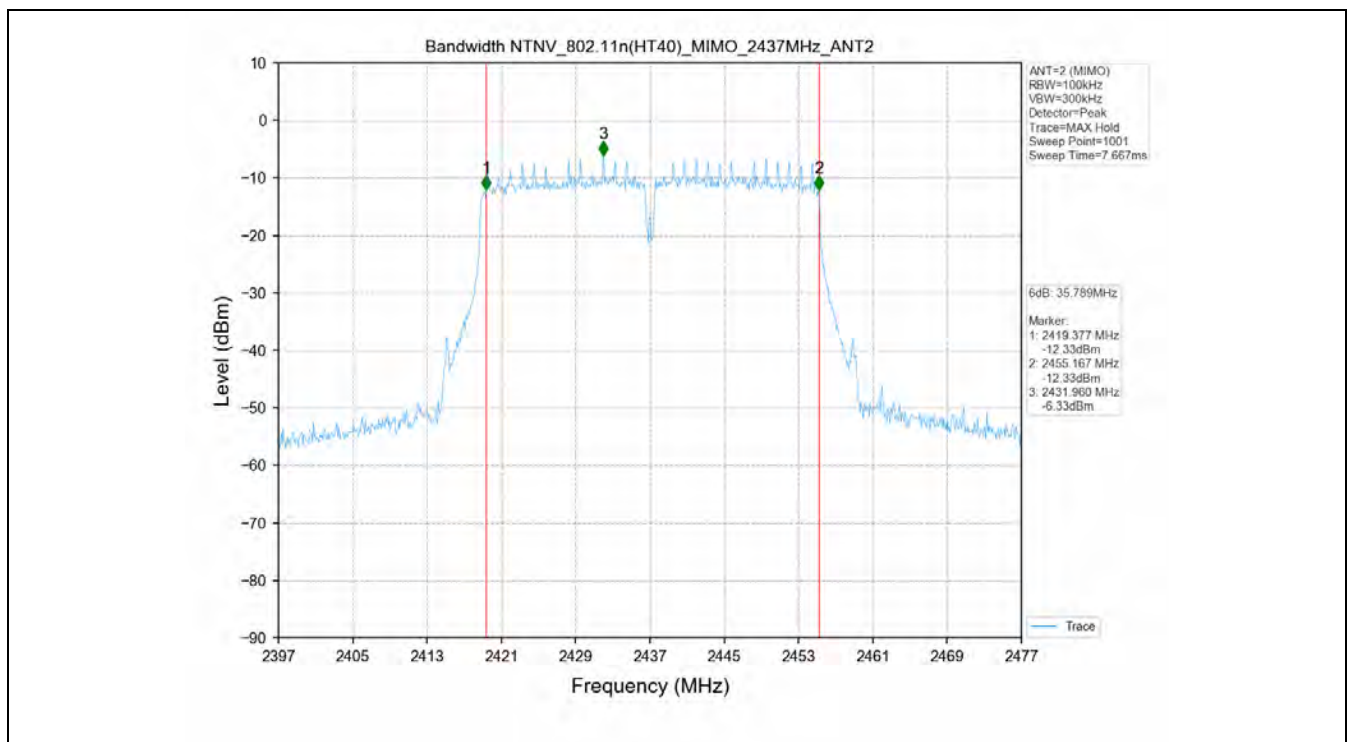
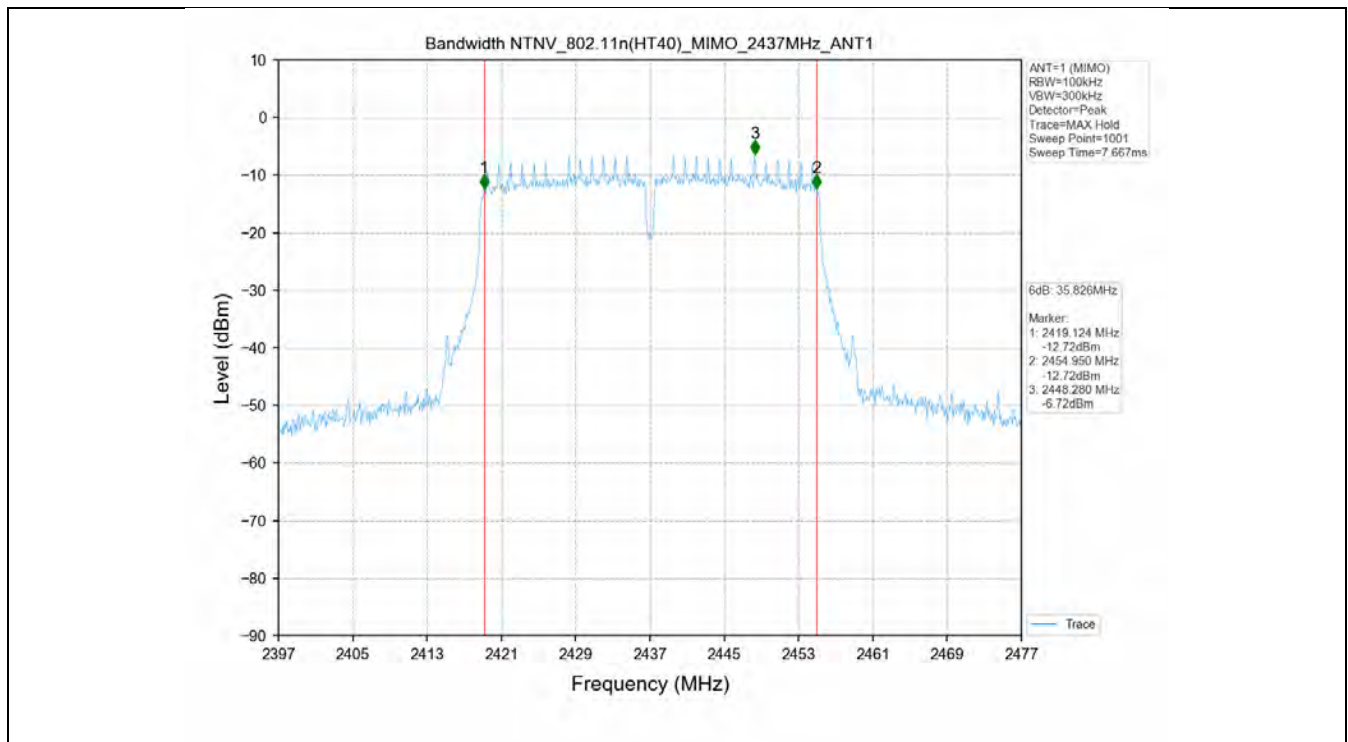


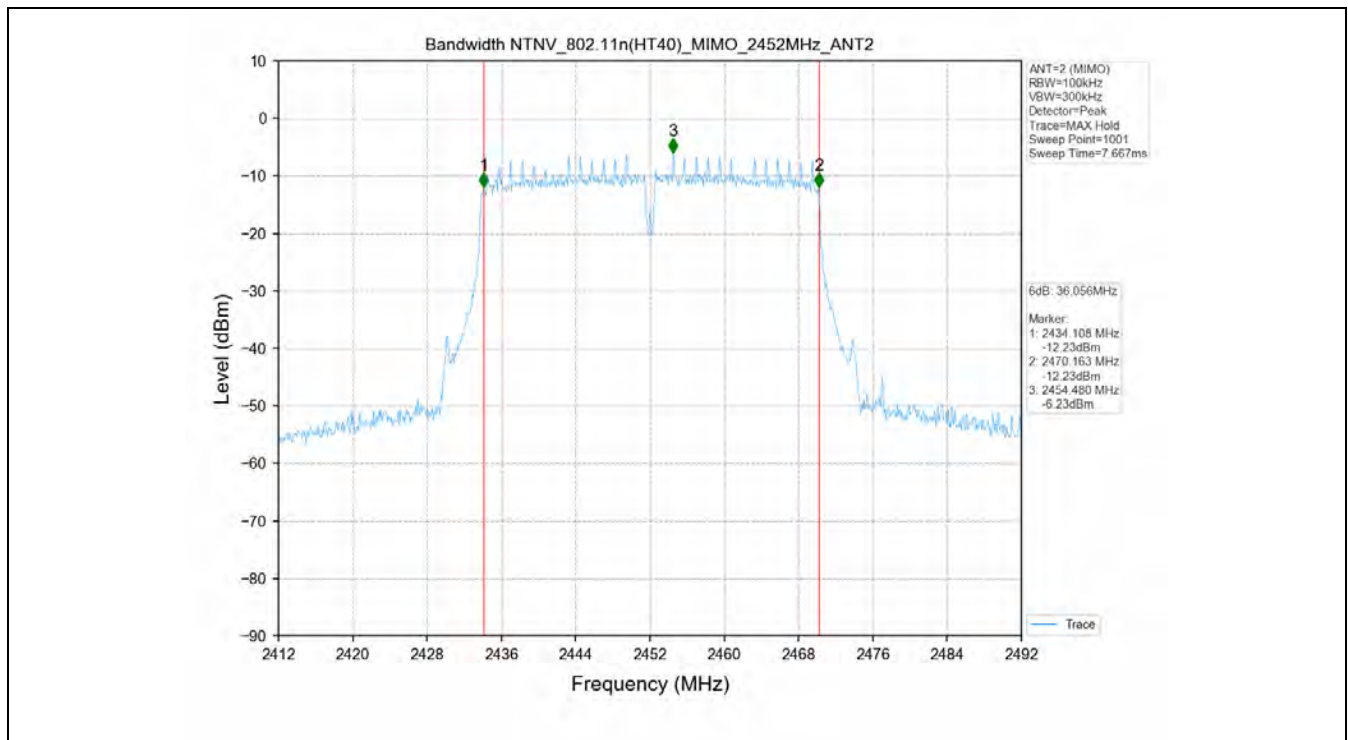
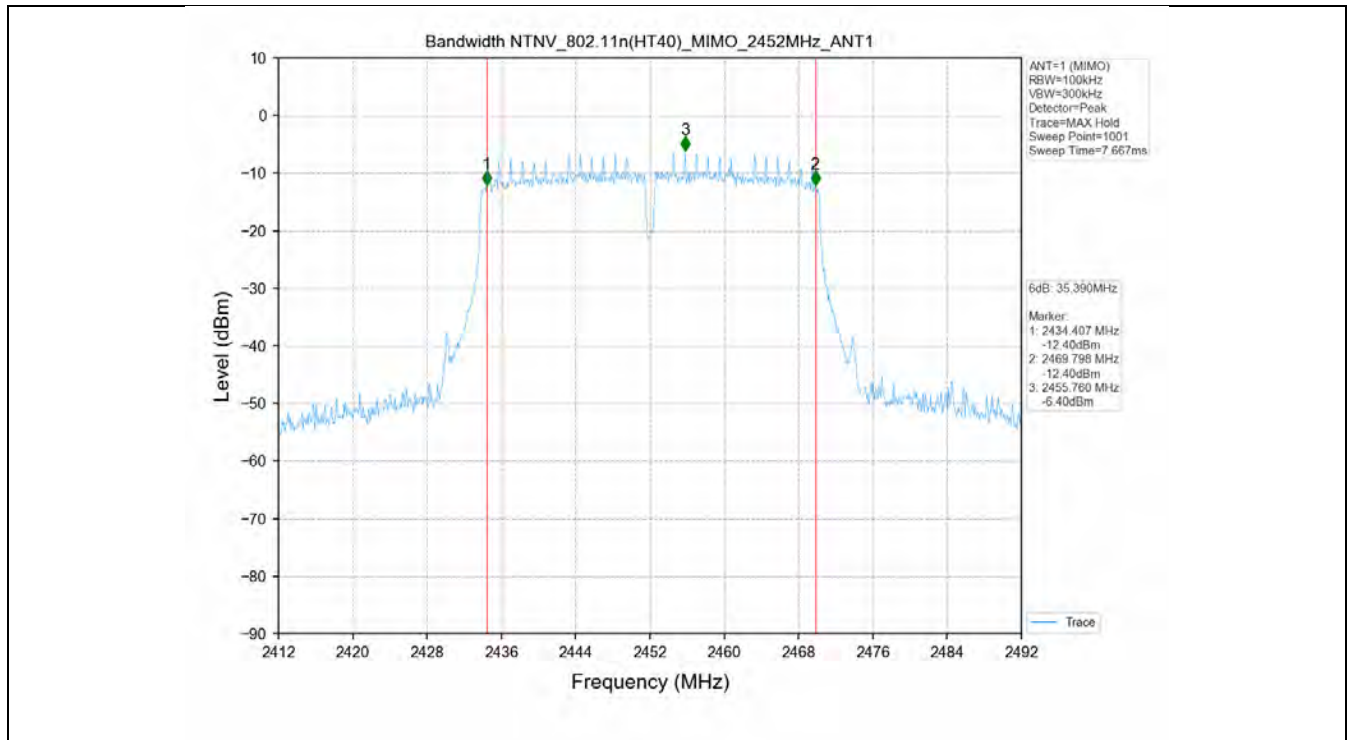






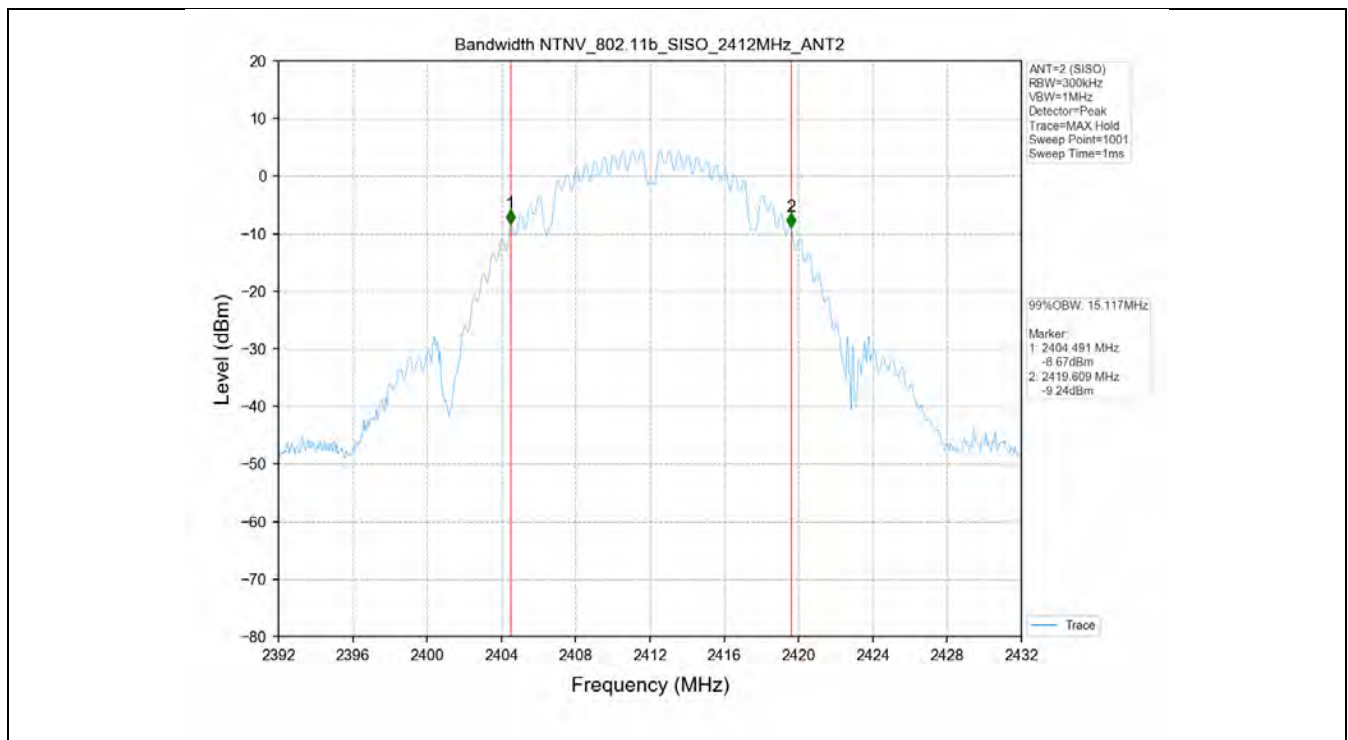
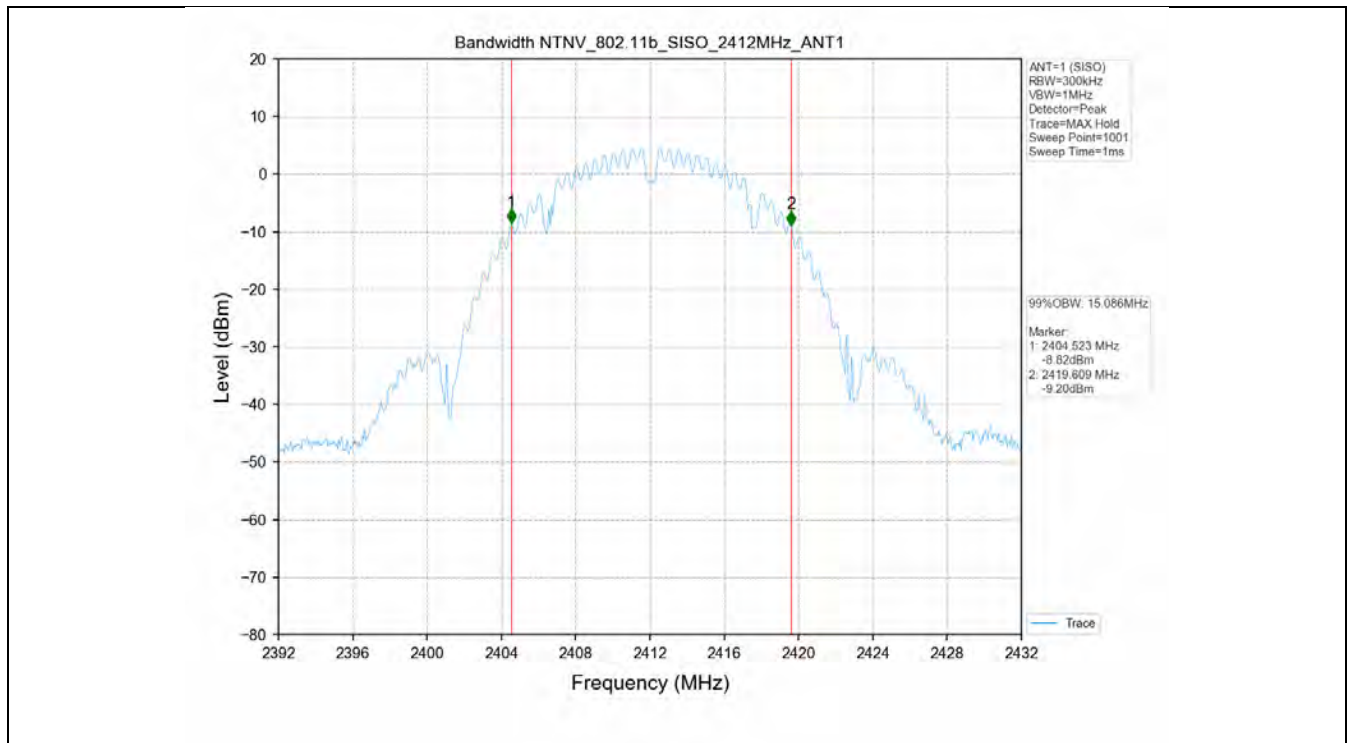


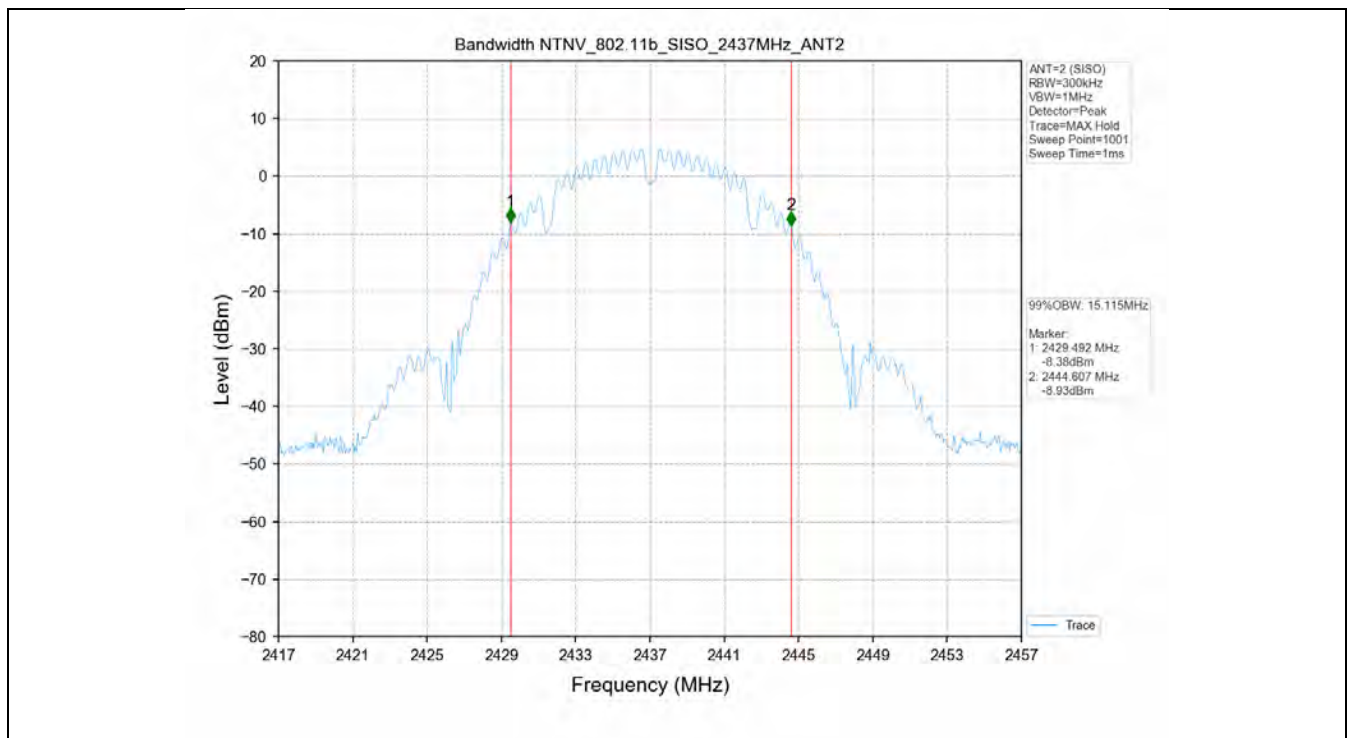
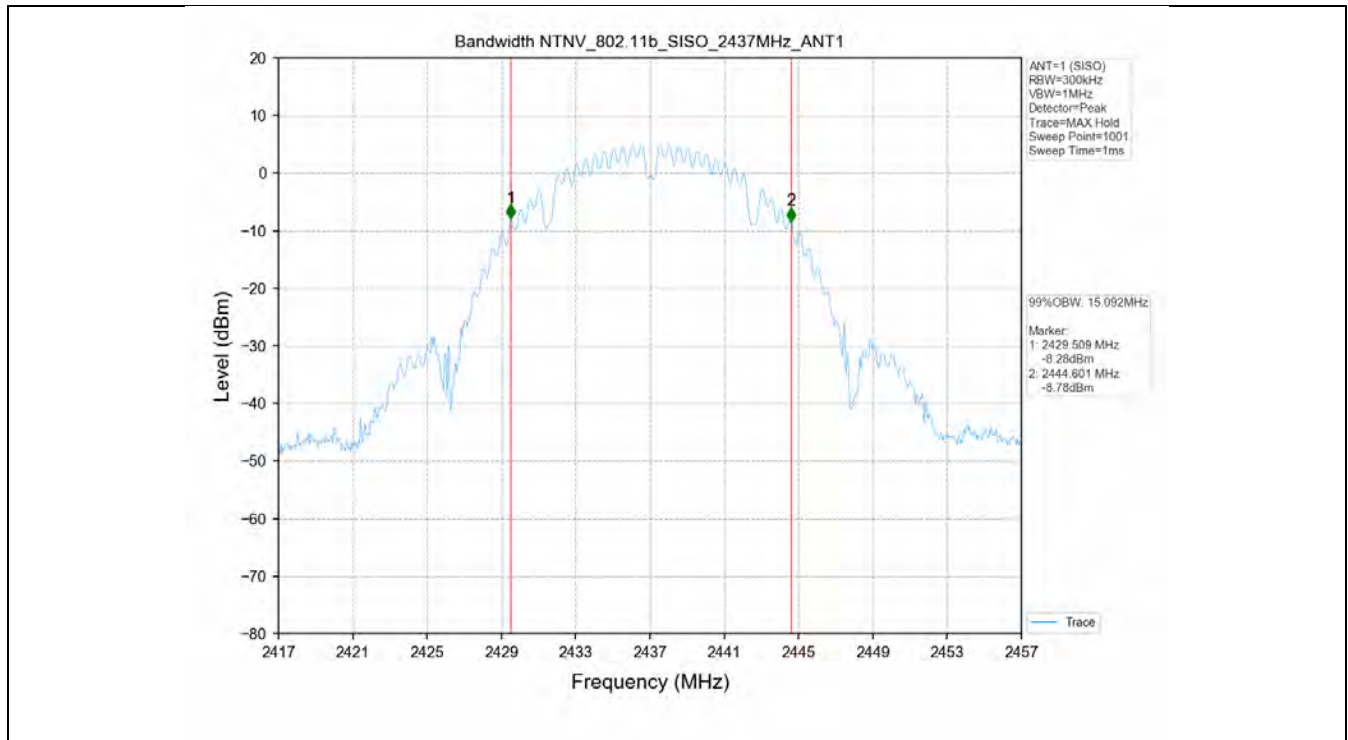


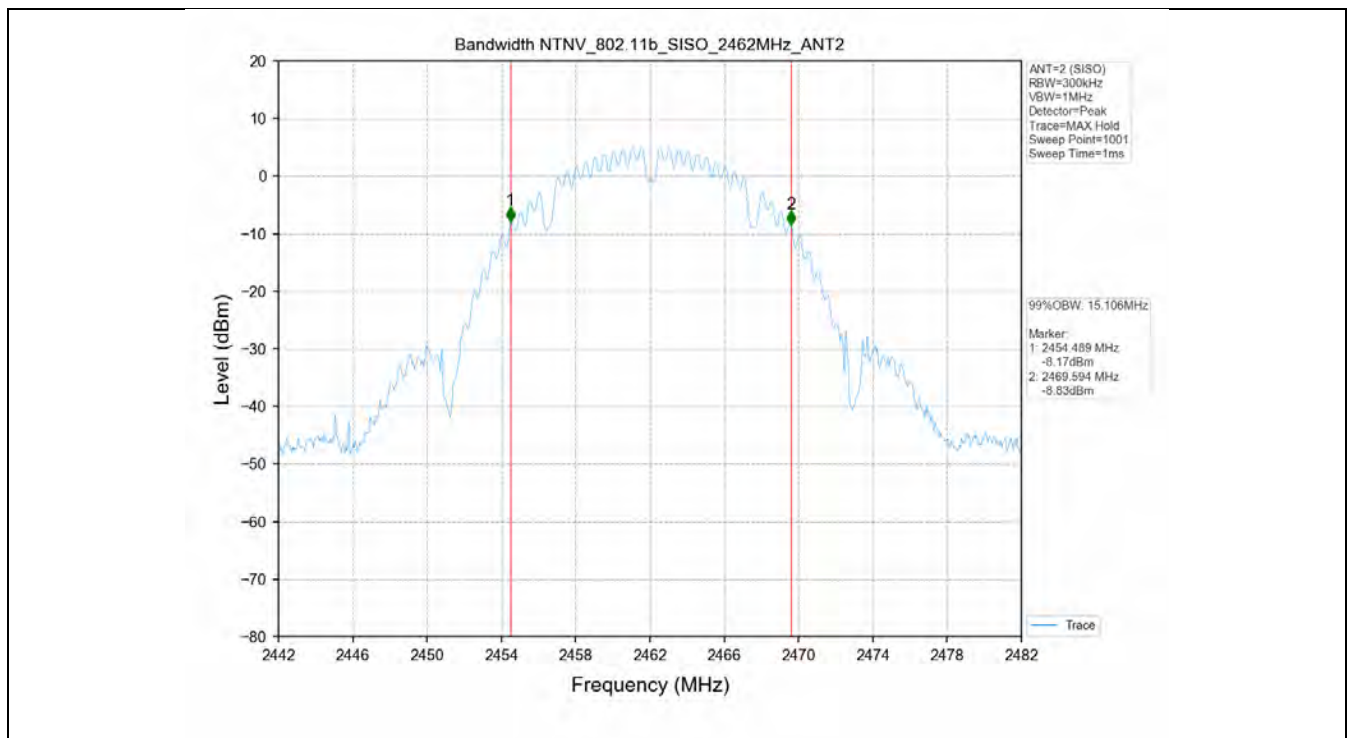
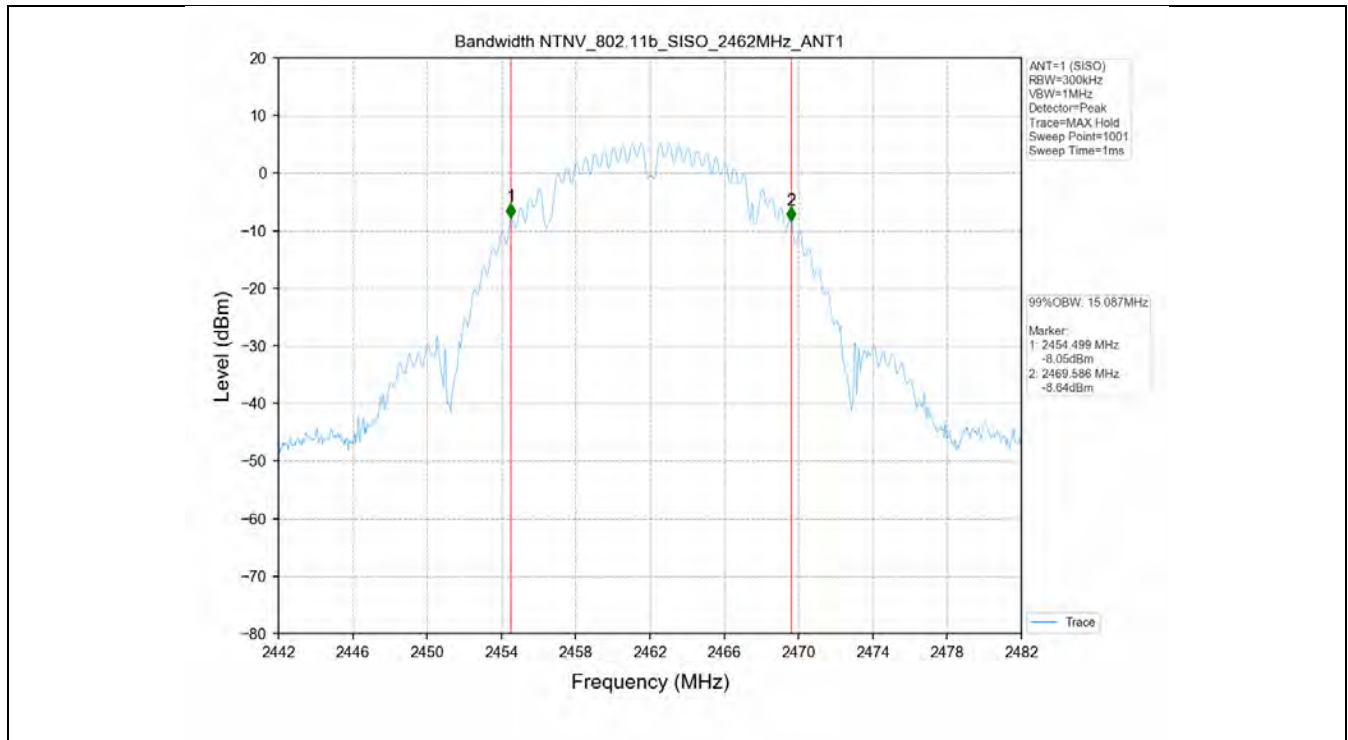


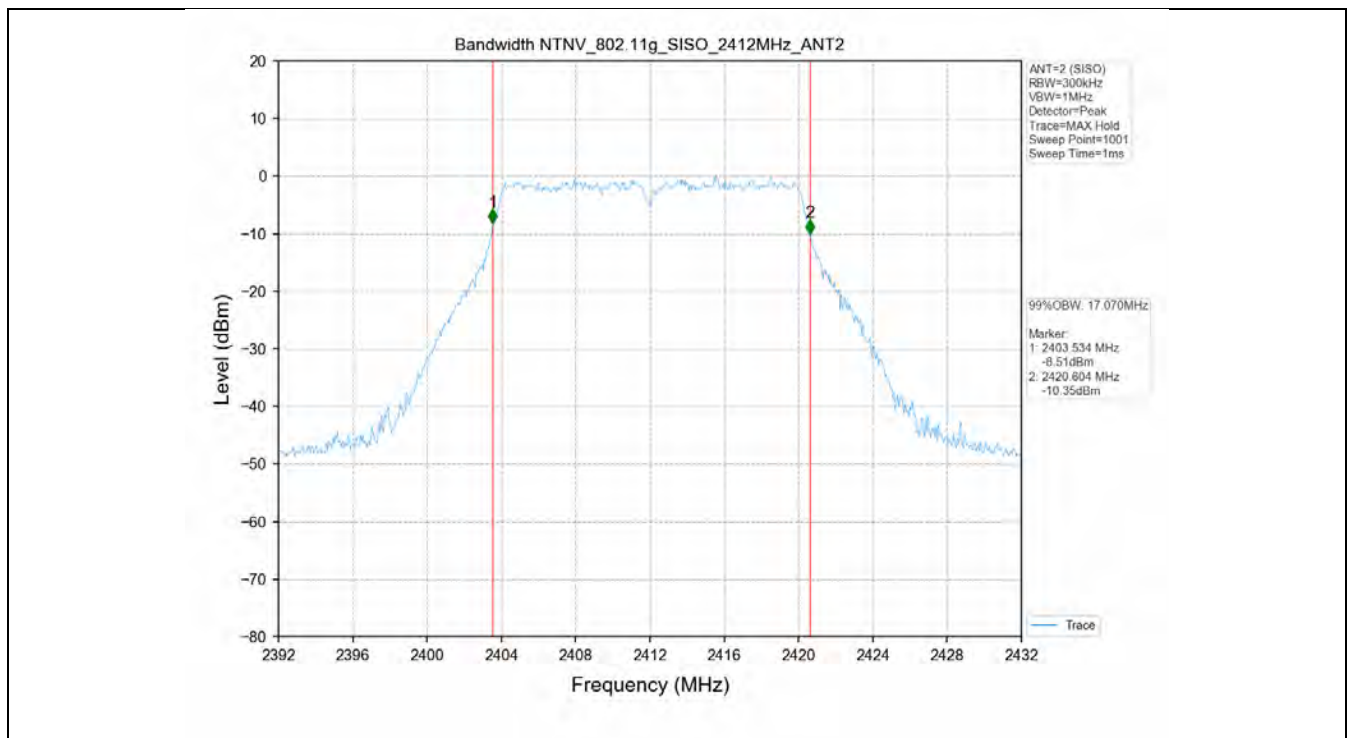
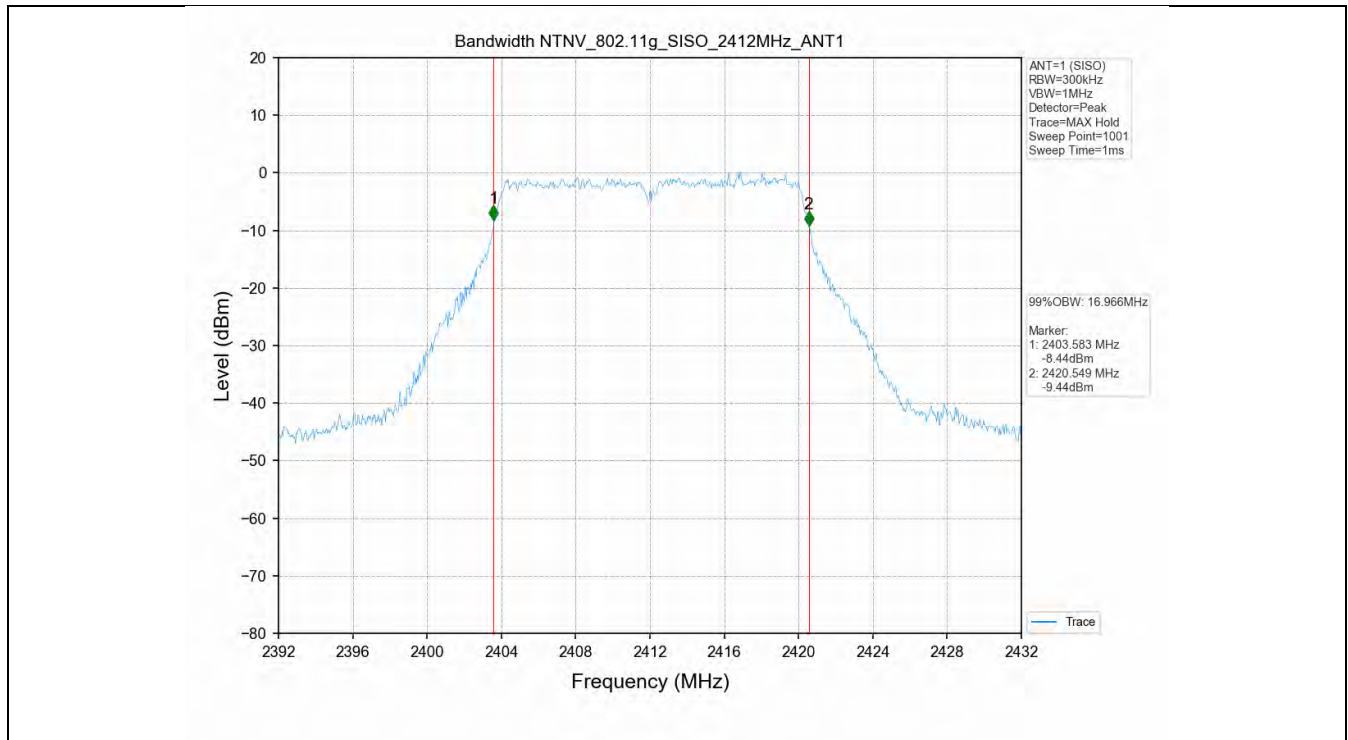


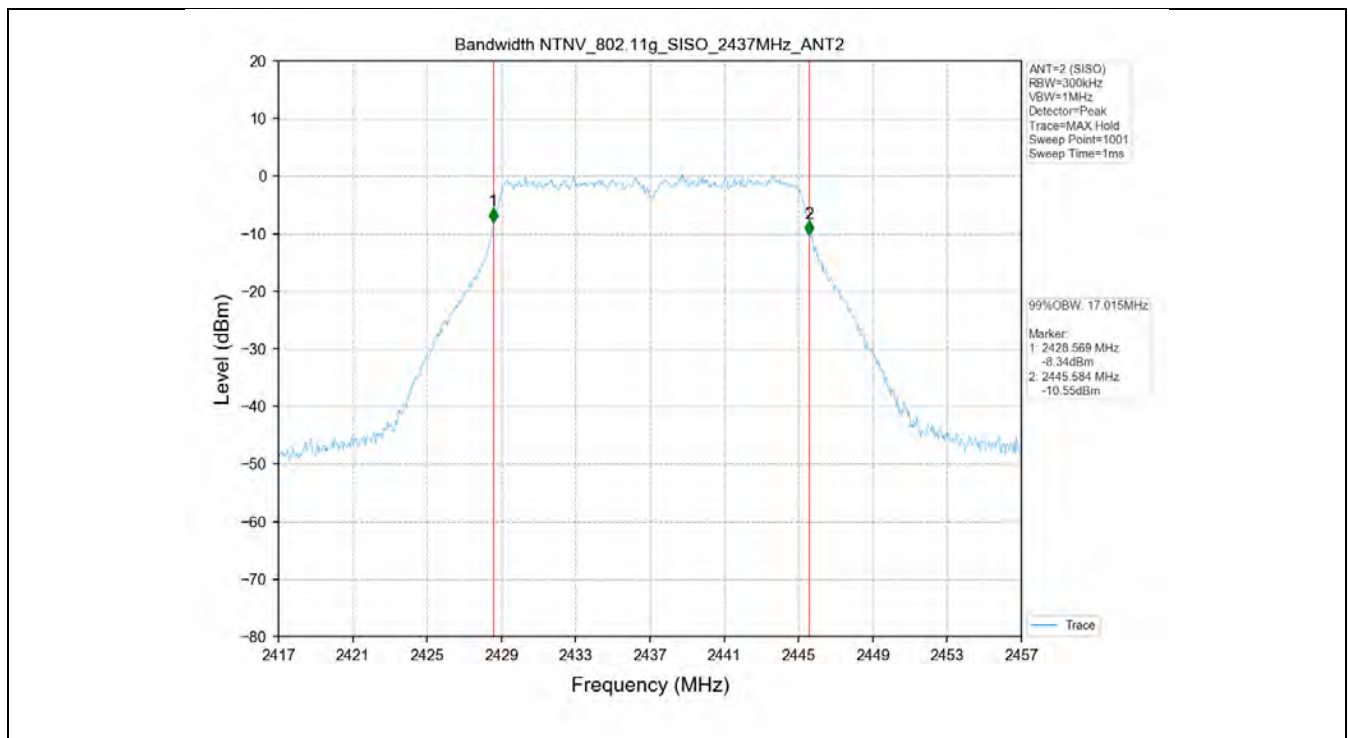
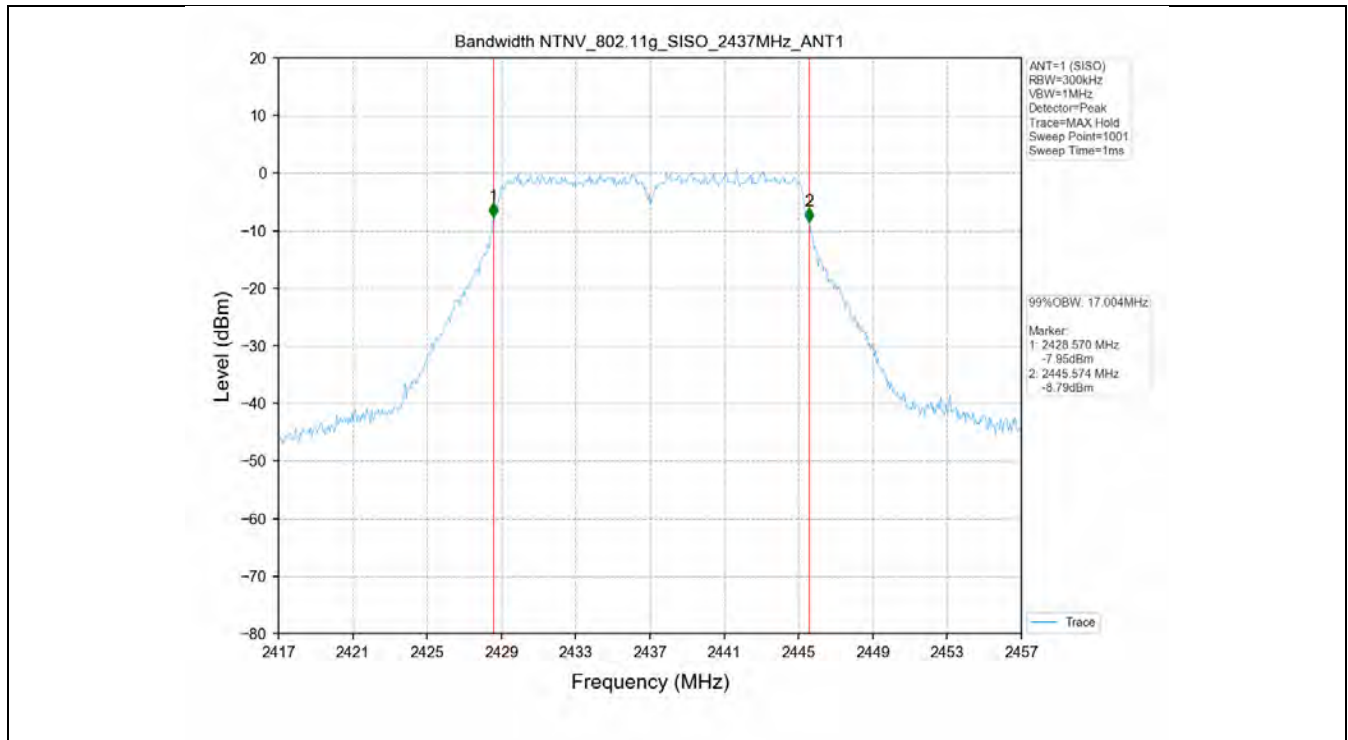
2.3 Test Graph - 99% Occupied Bandwidth

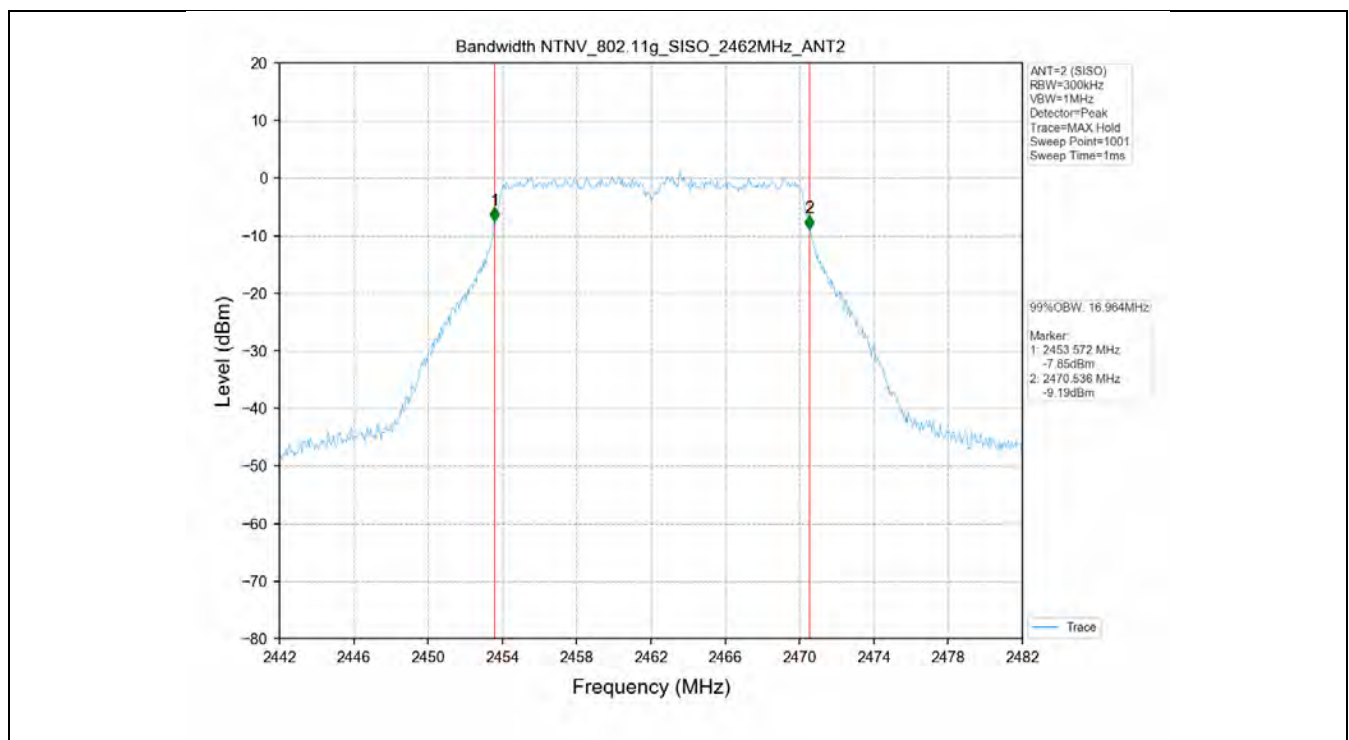
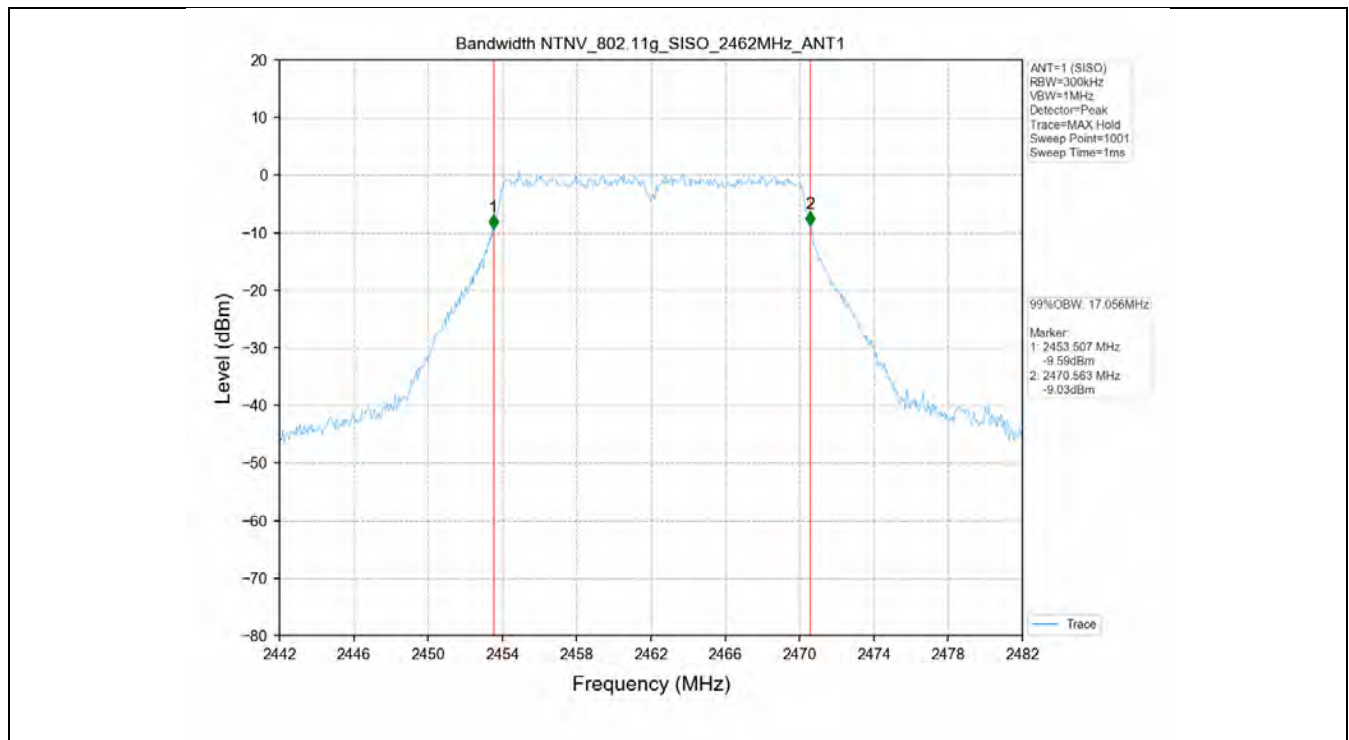


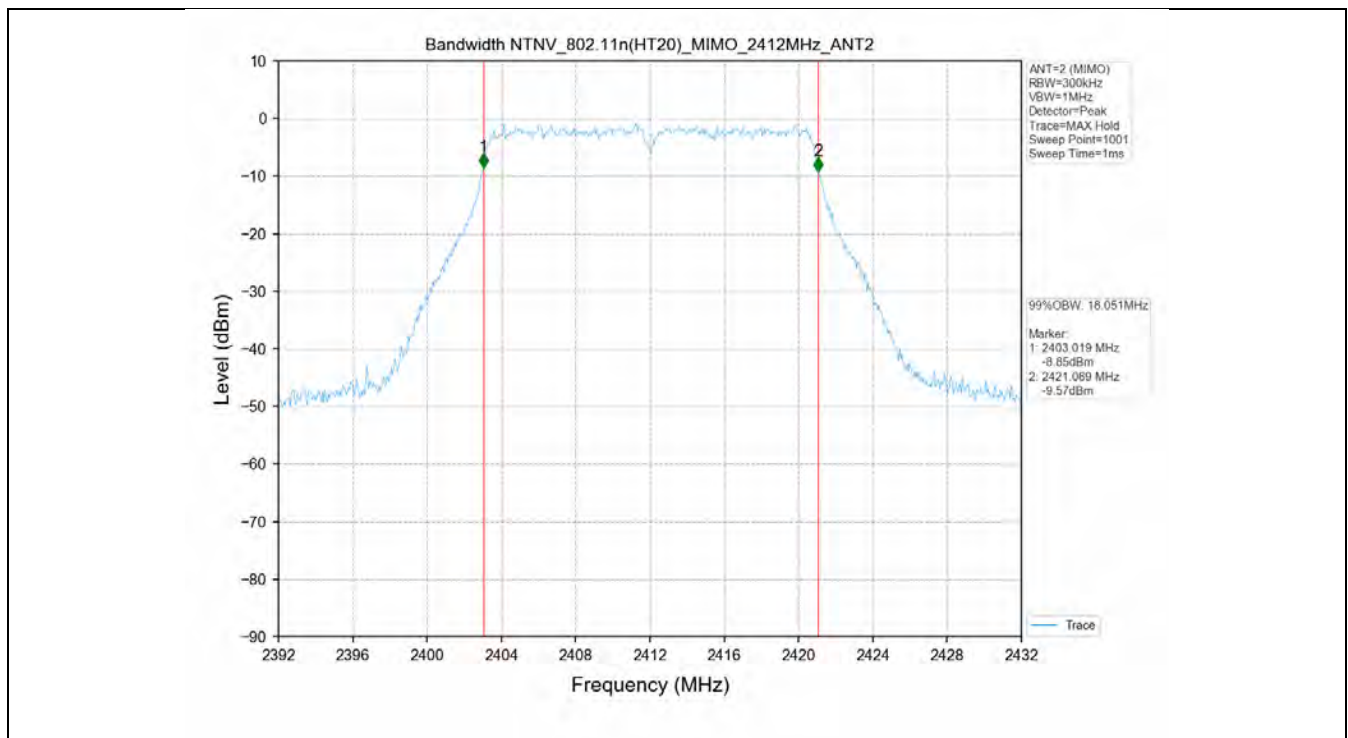
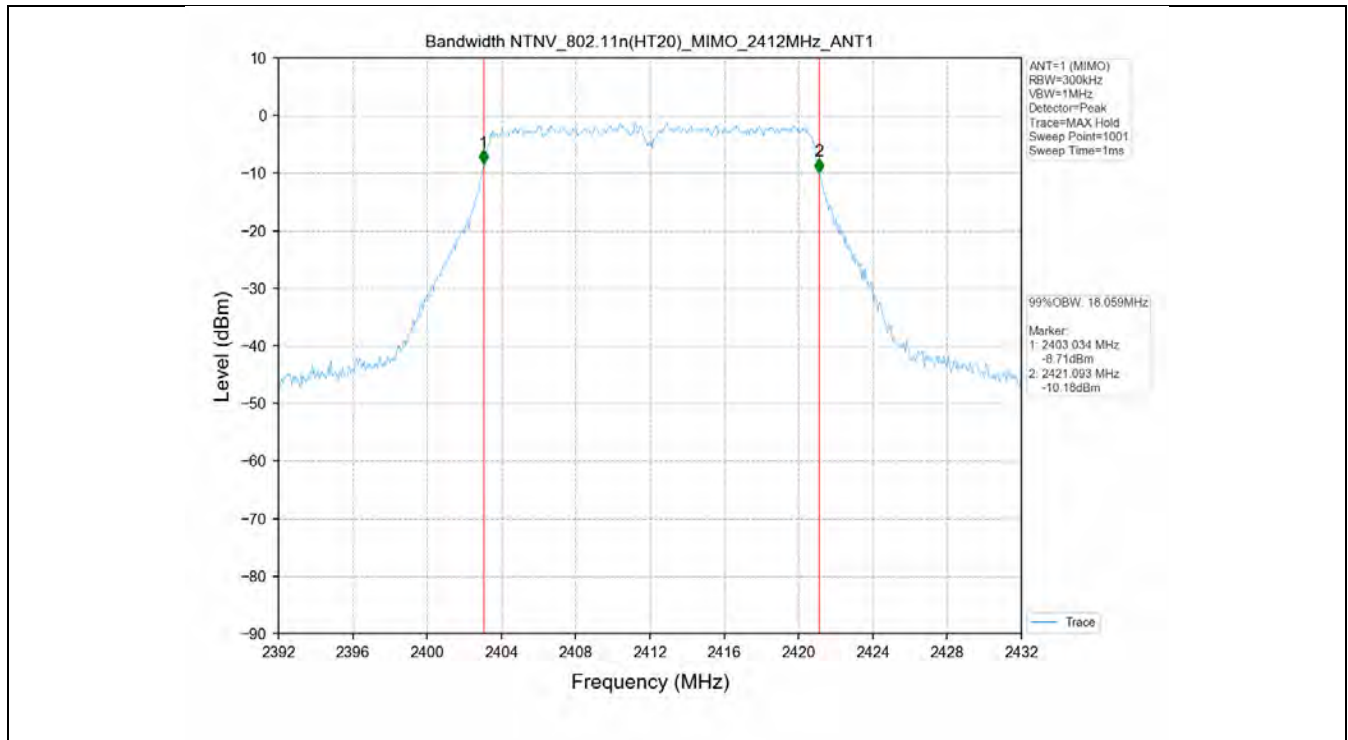


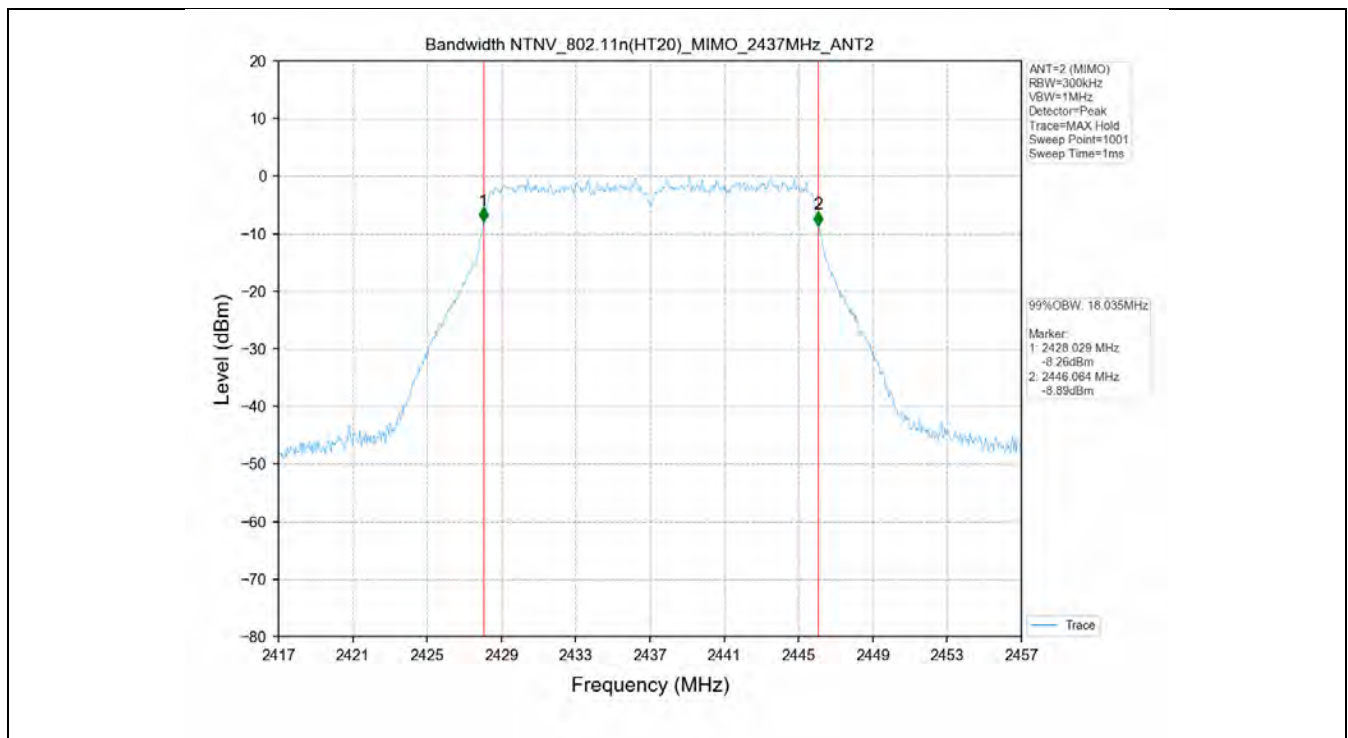
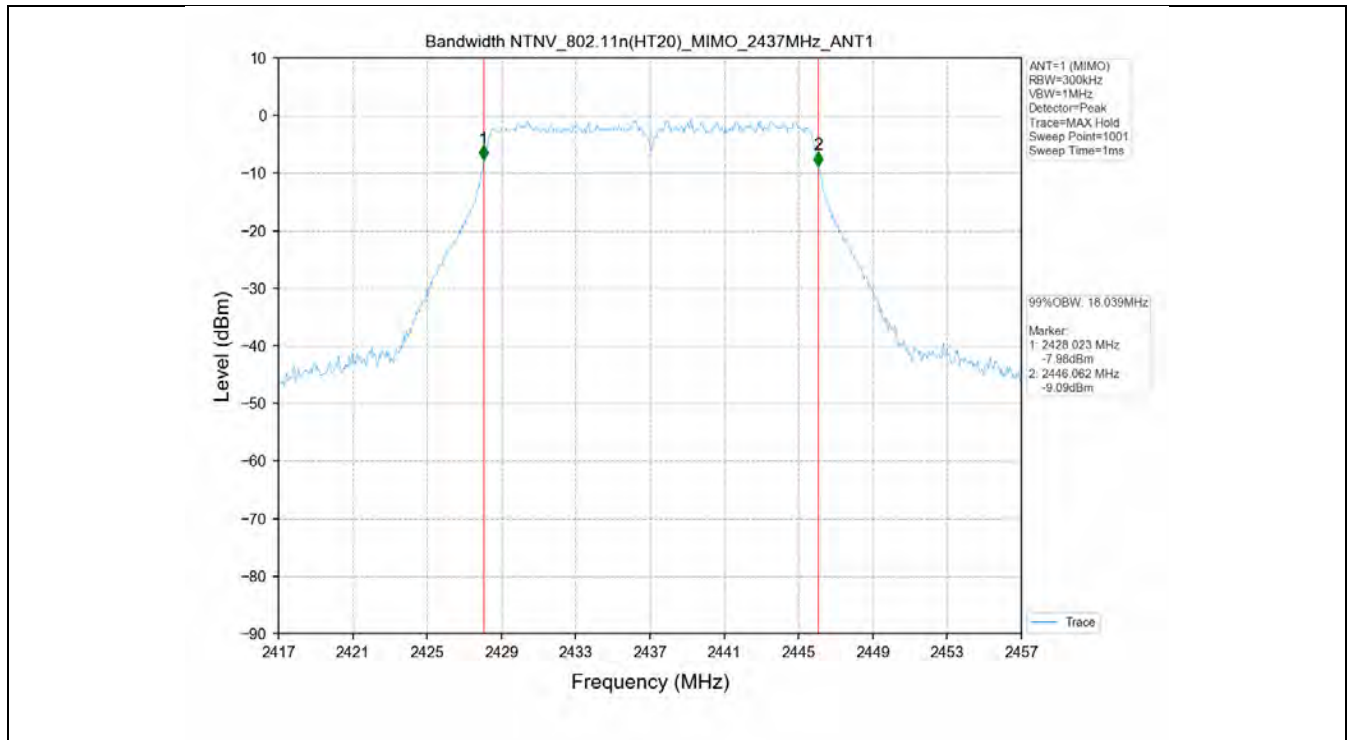


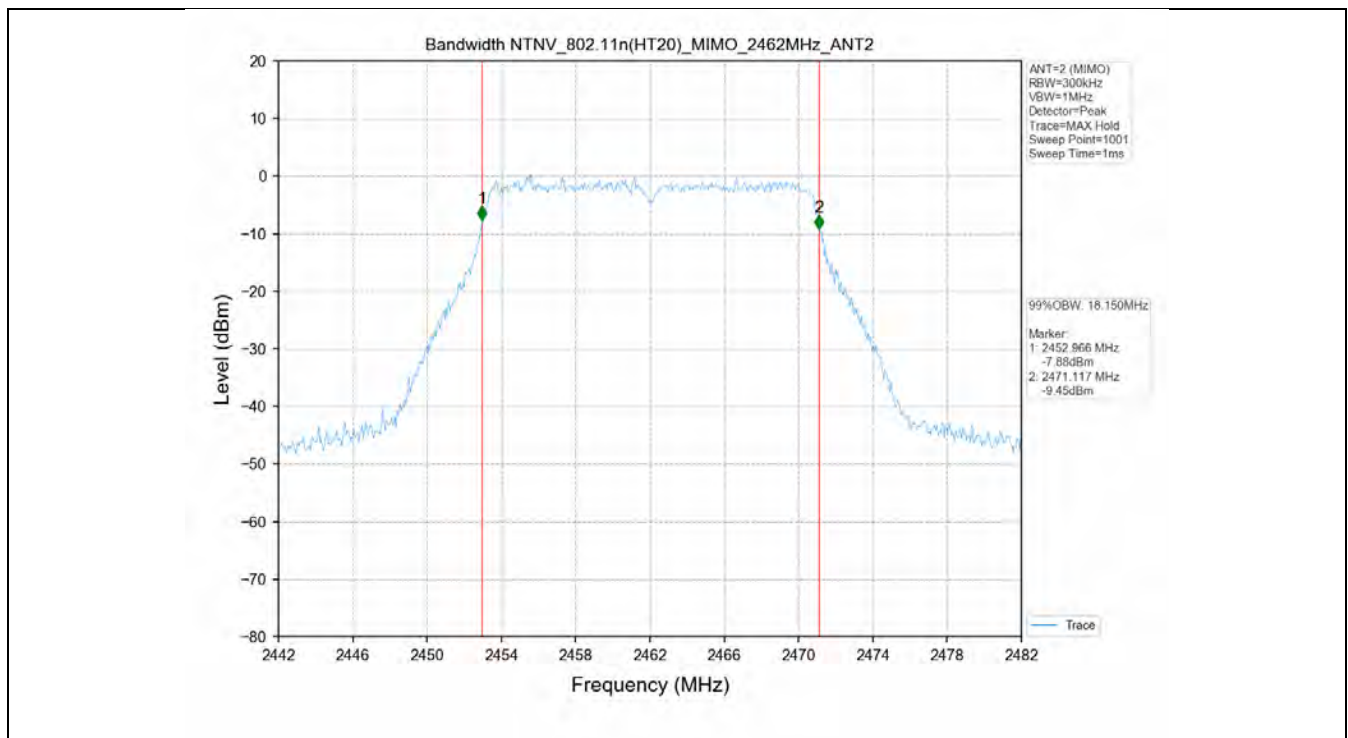
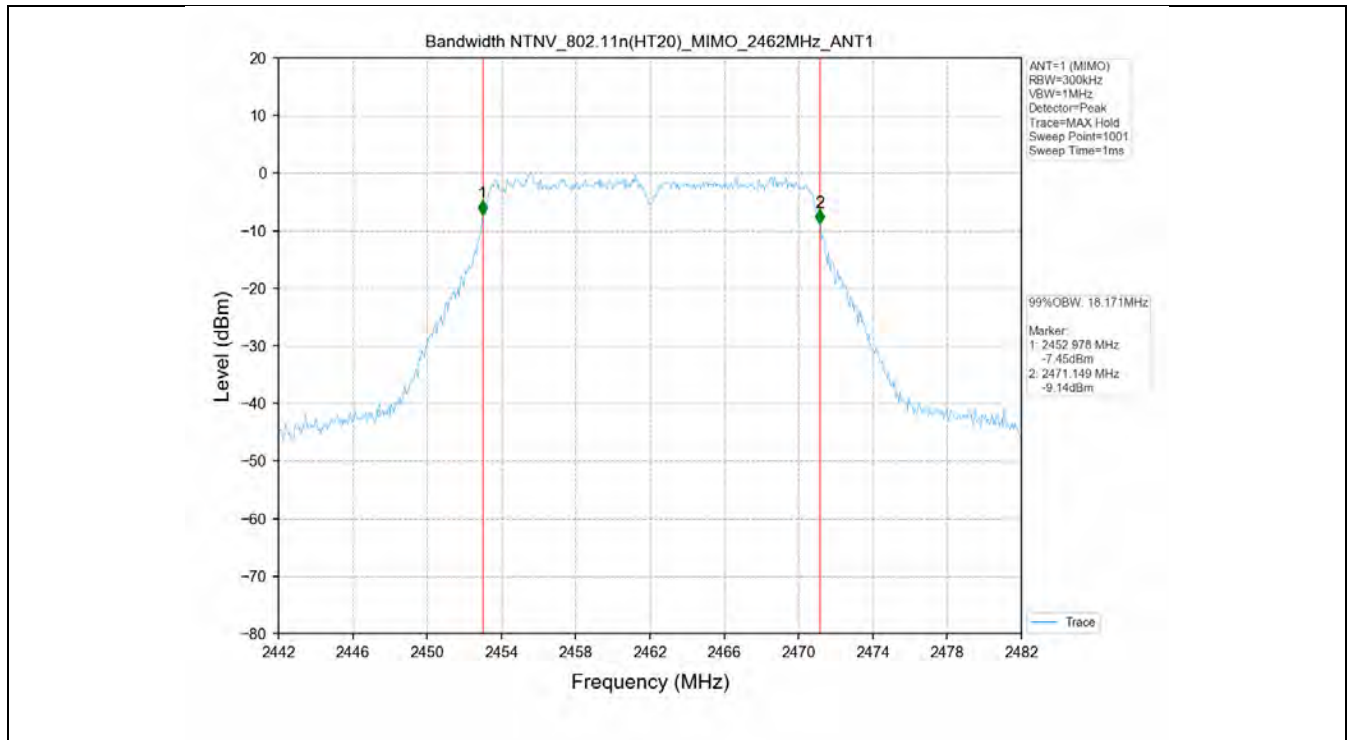


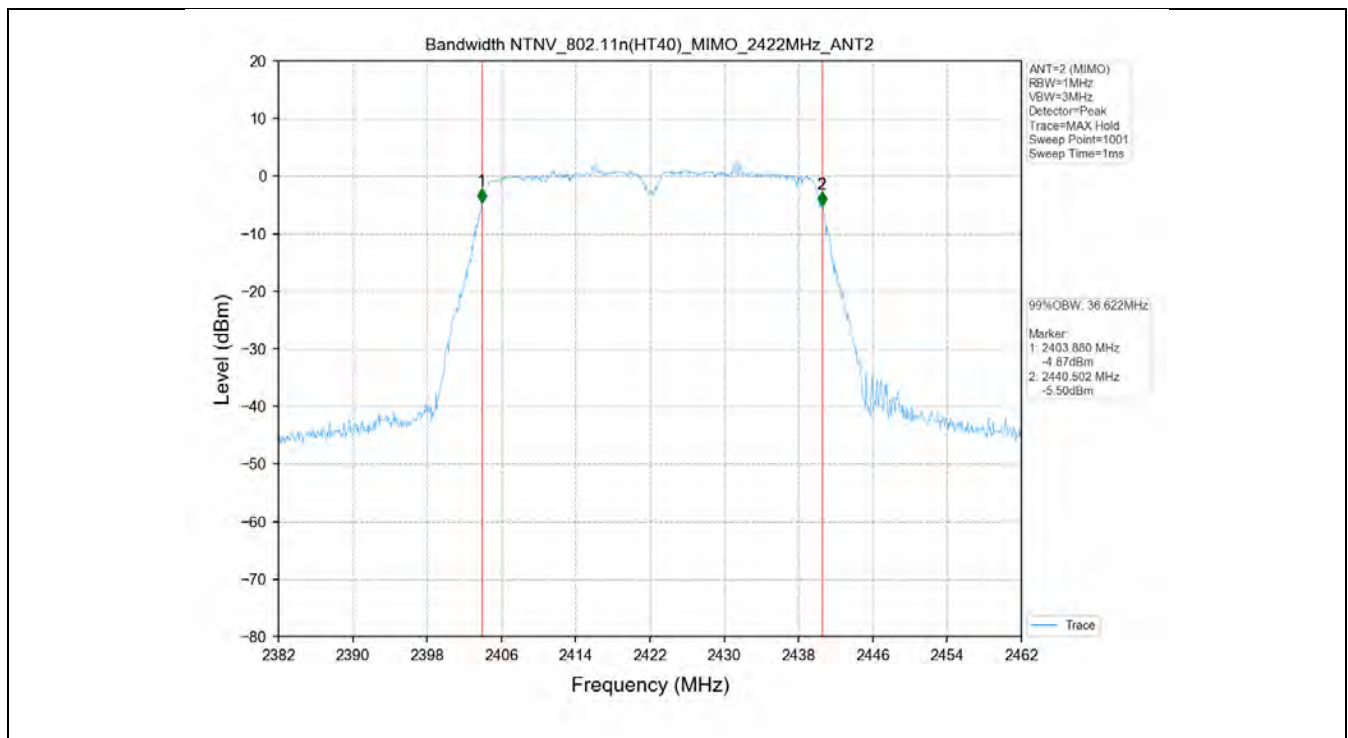
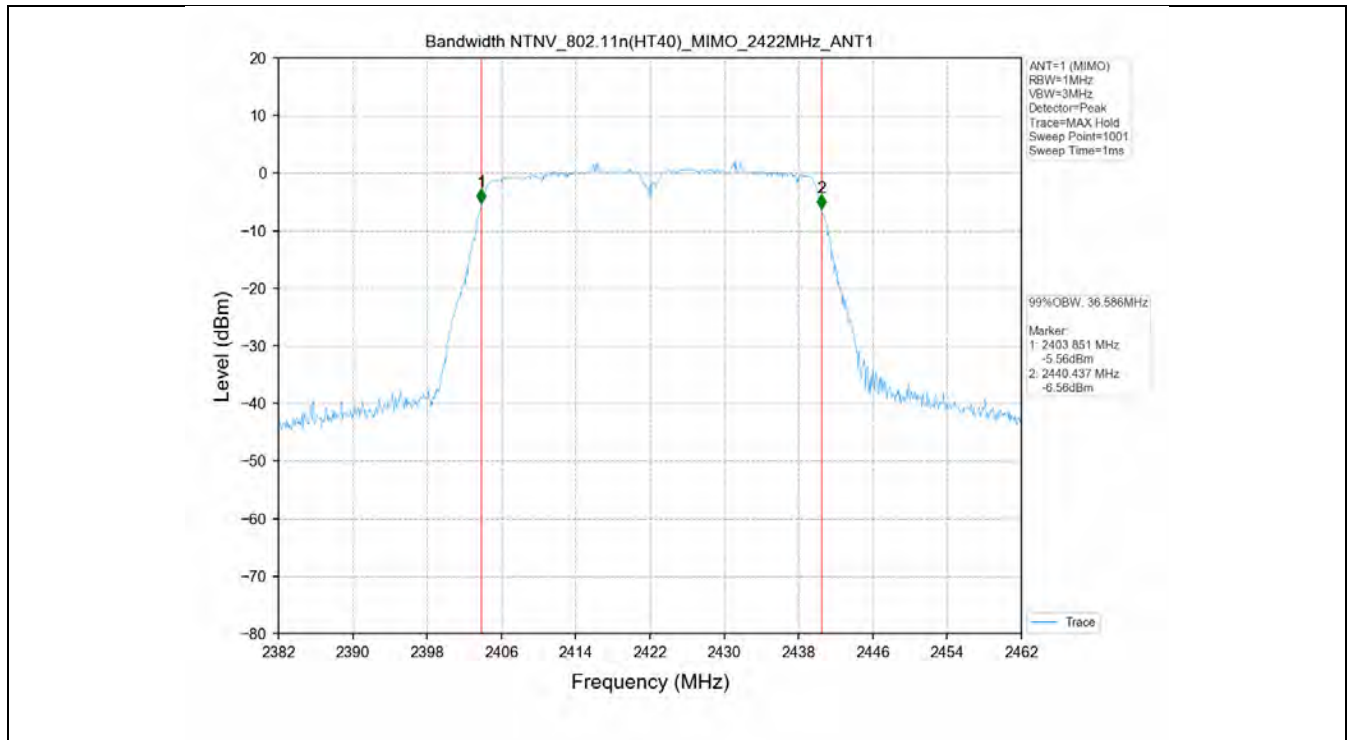


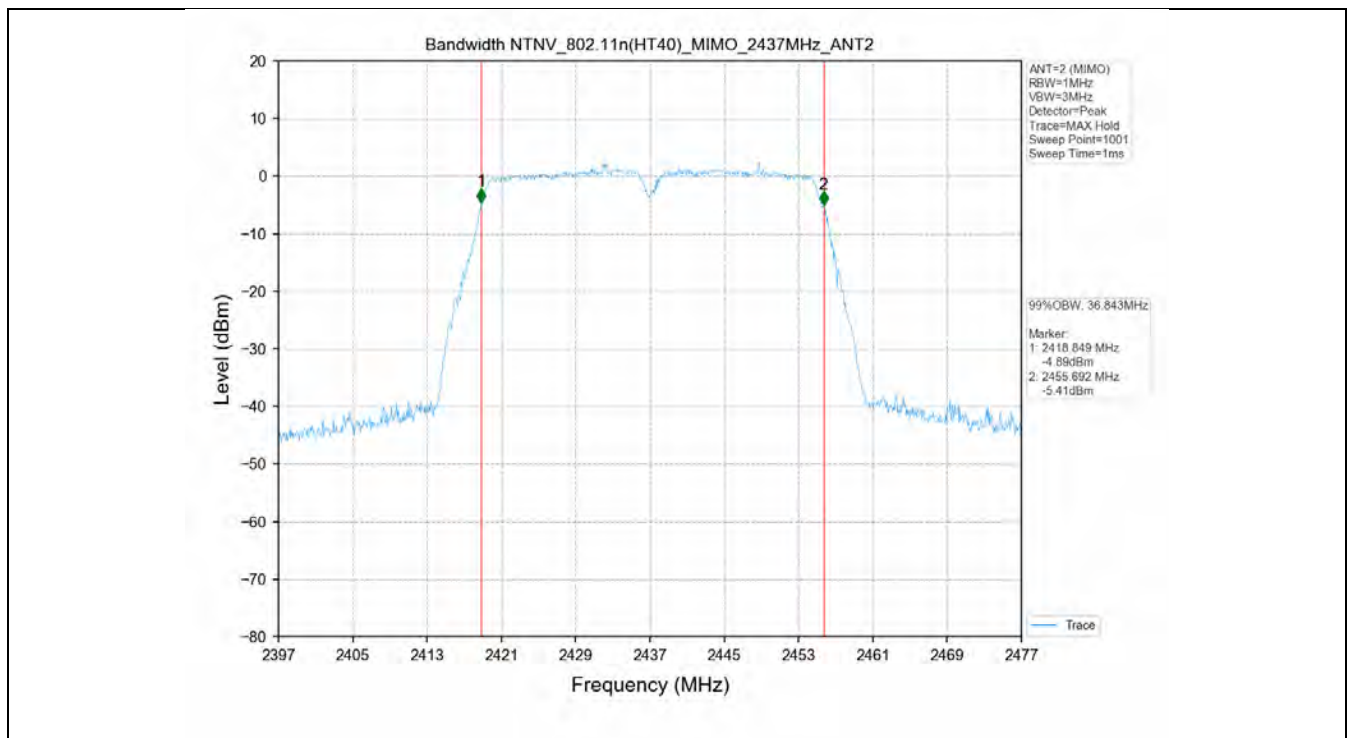
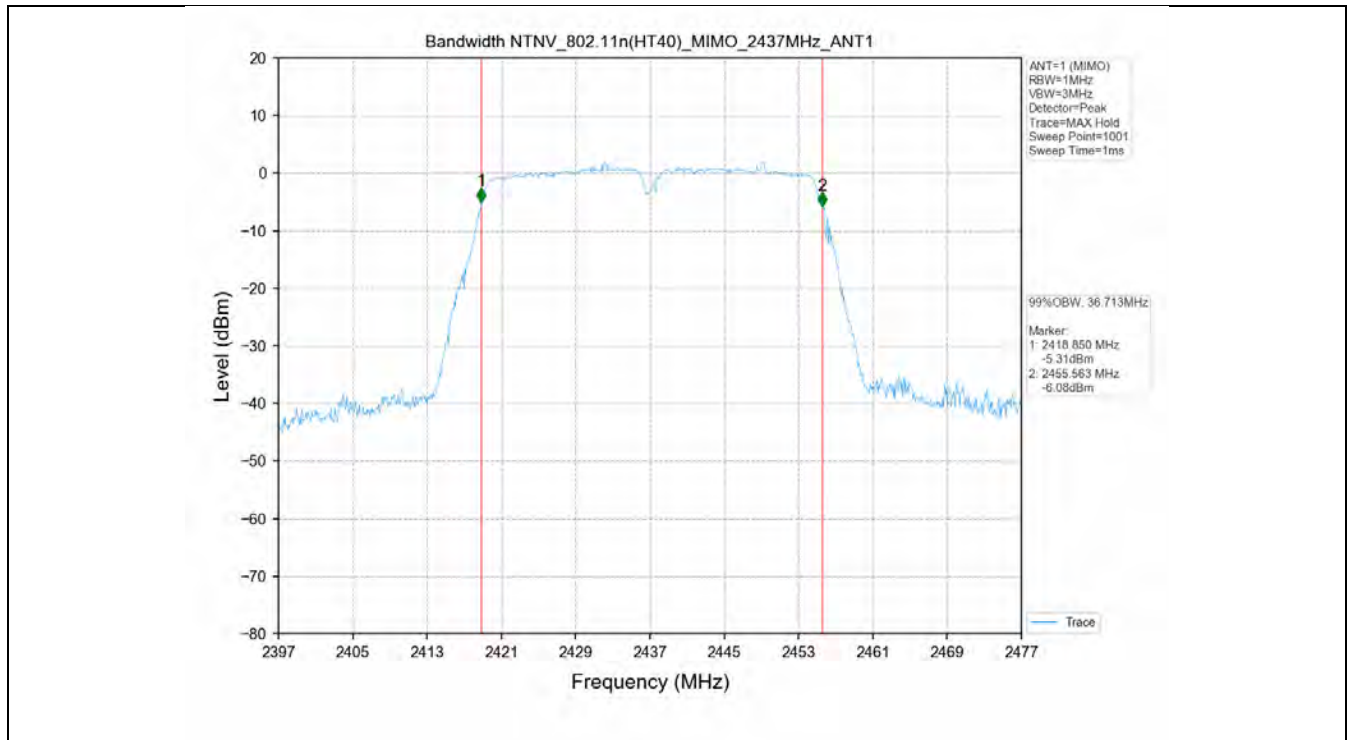


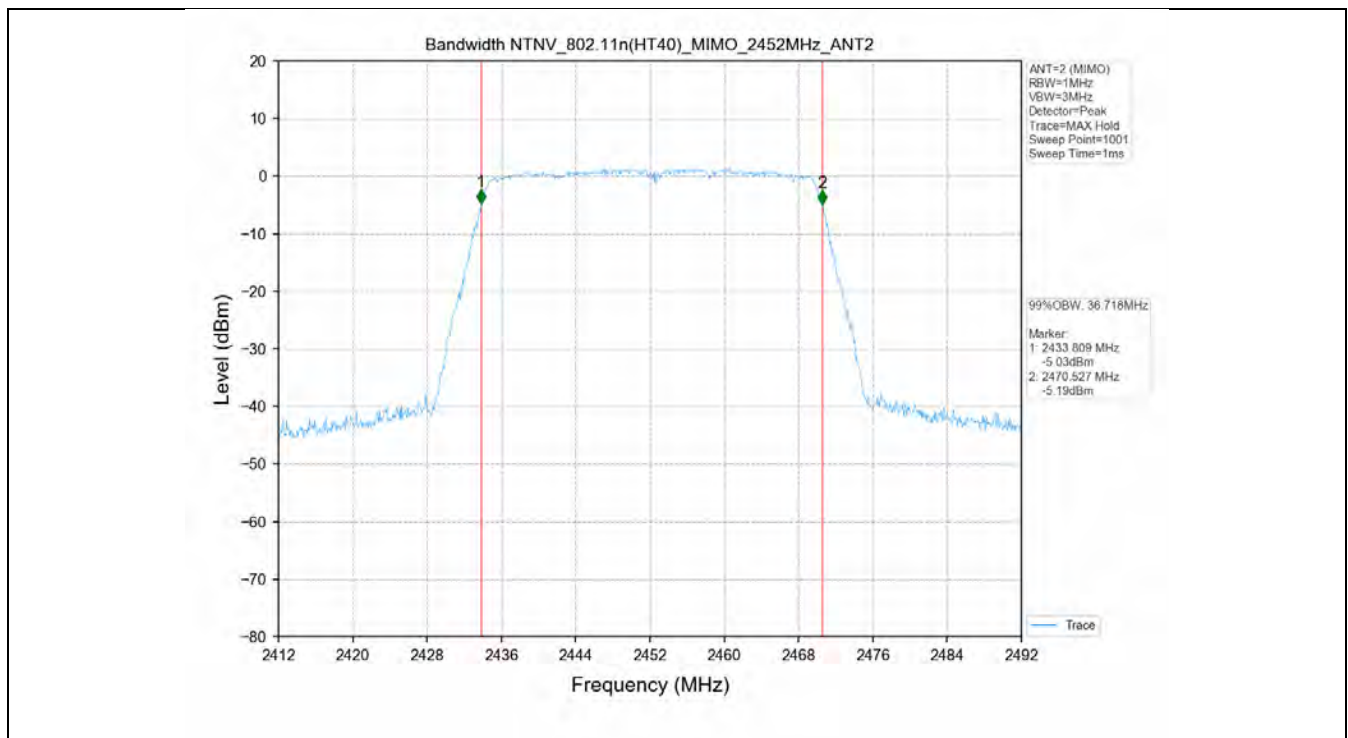
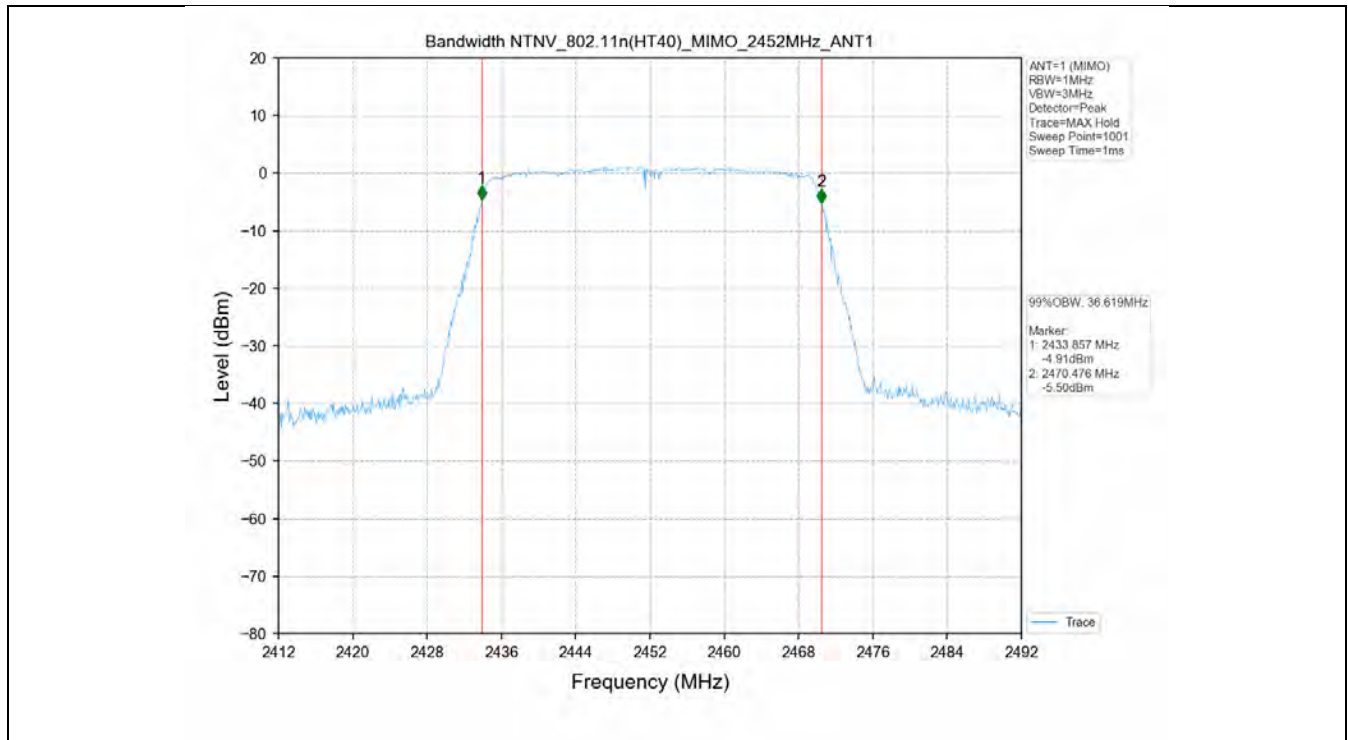












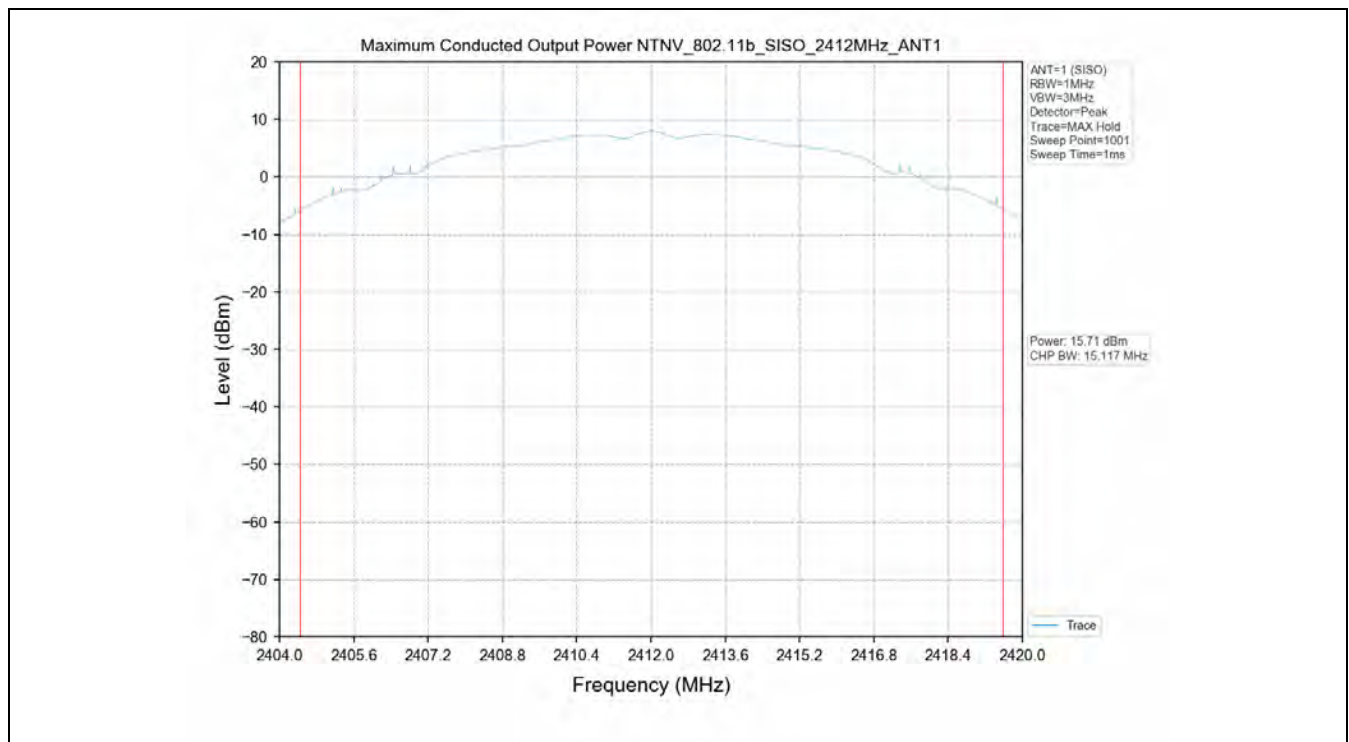


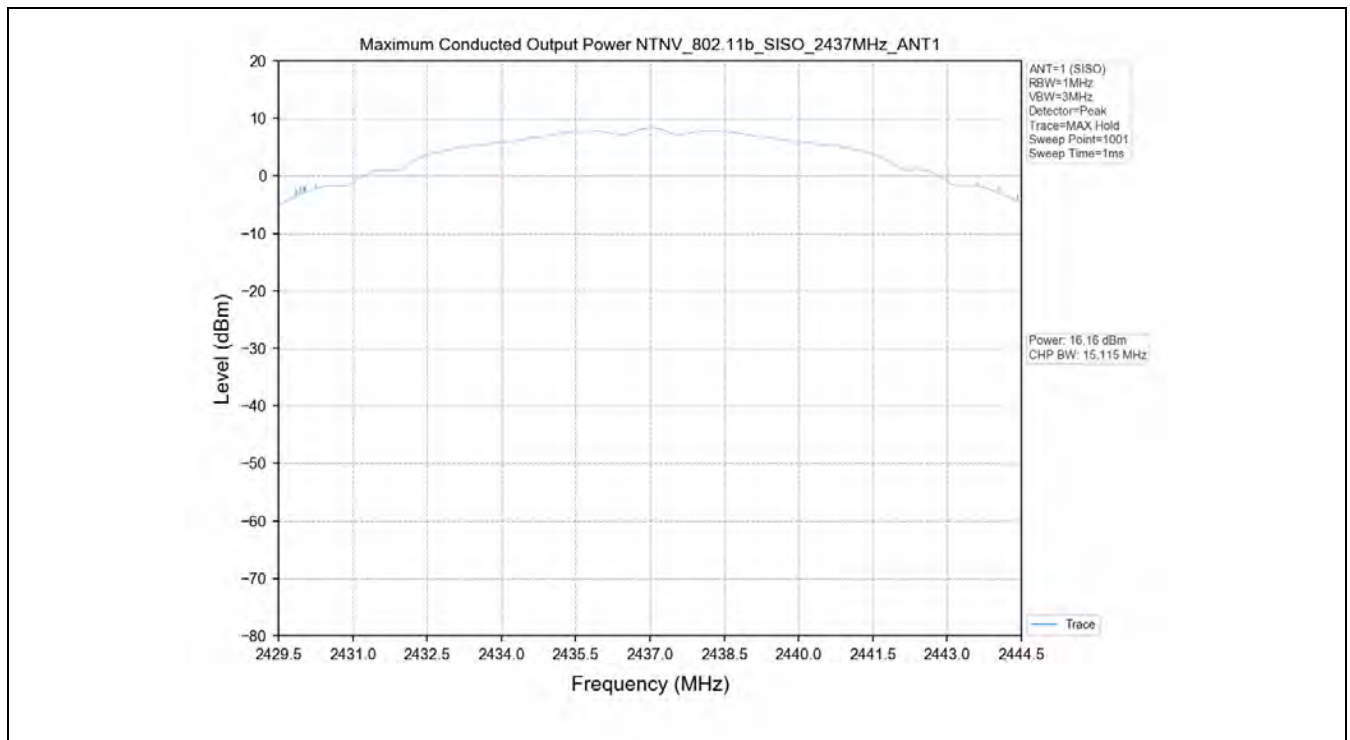
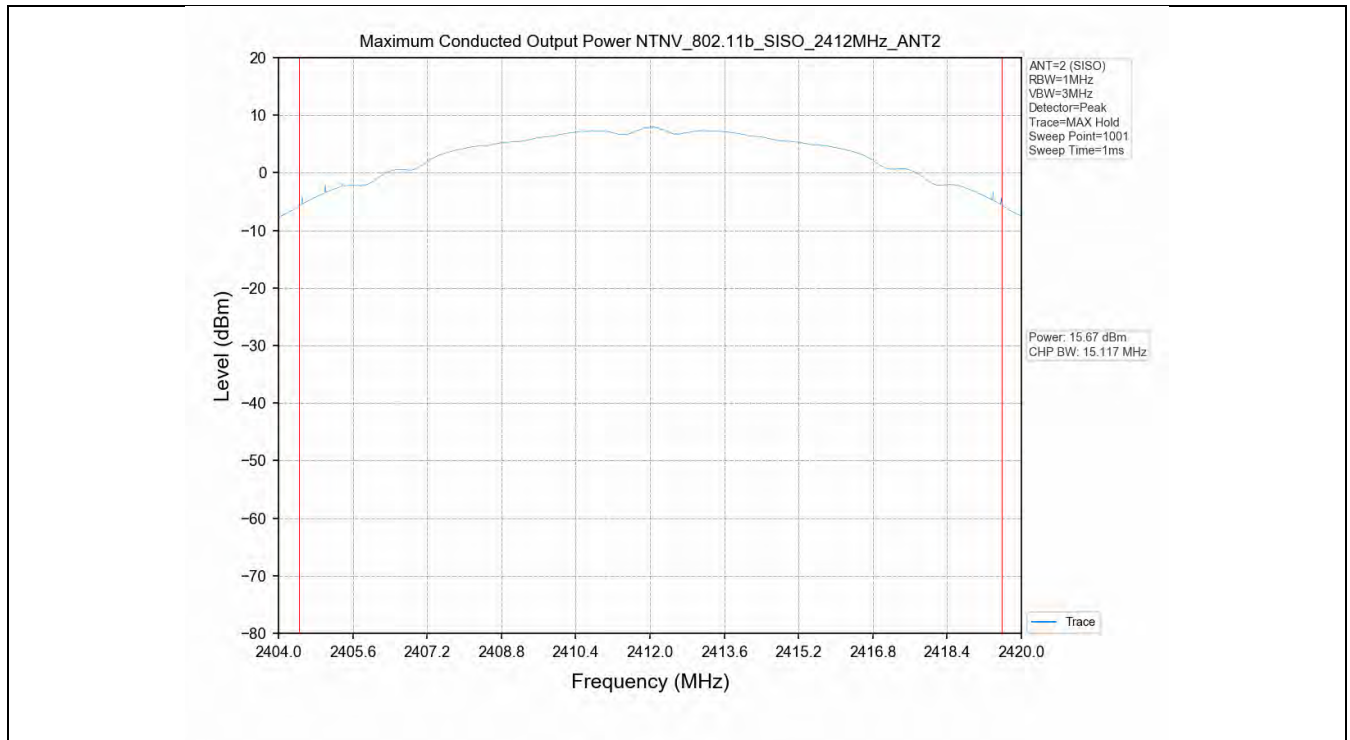
3. Maximum Conducted Output Power

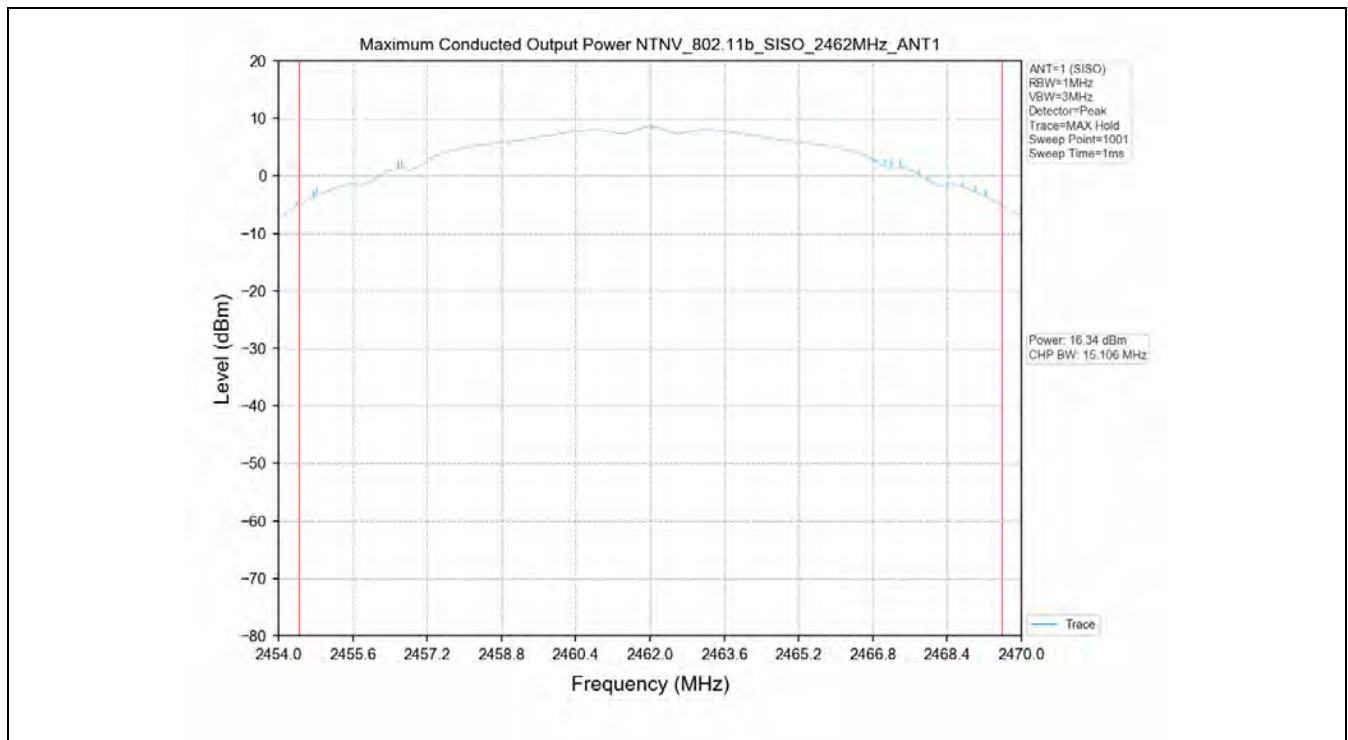
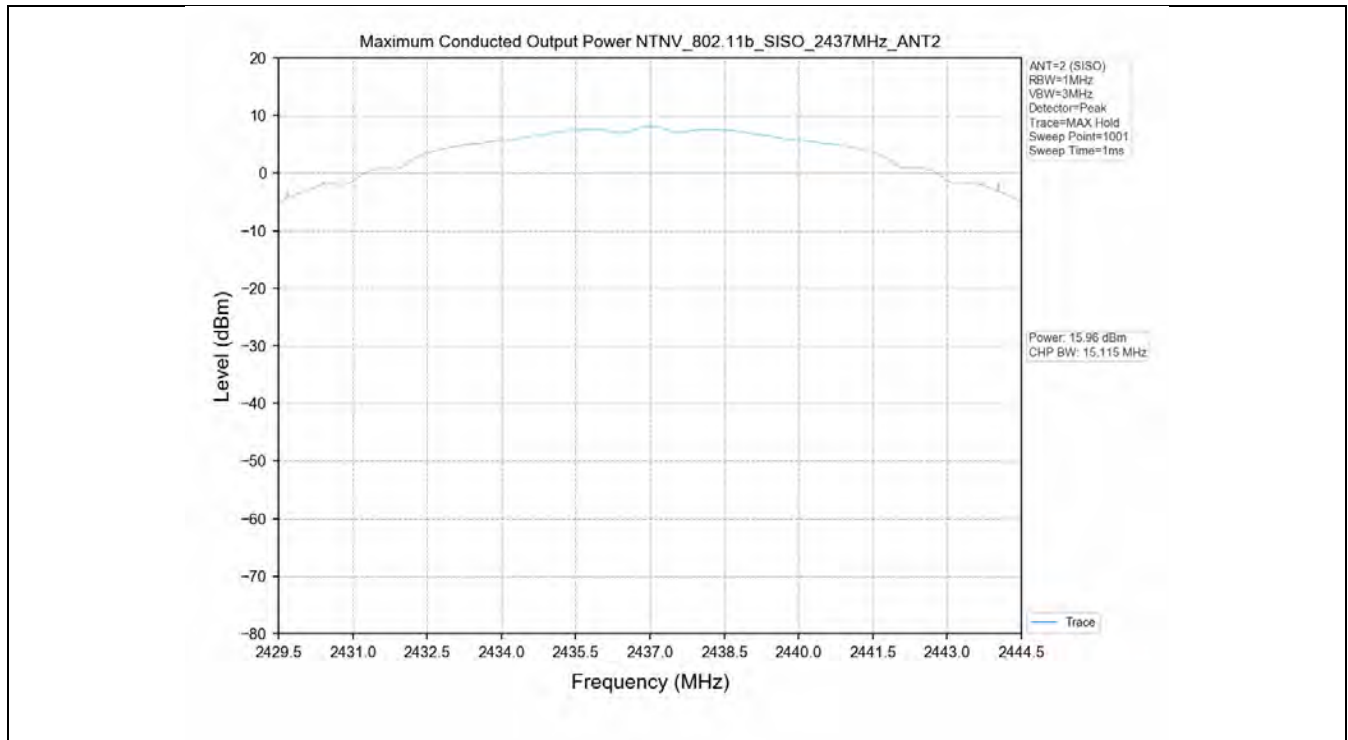
3.1 Test Result

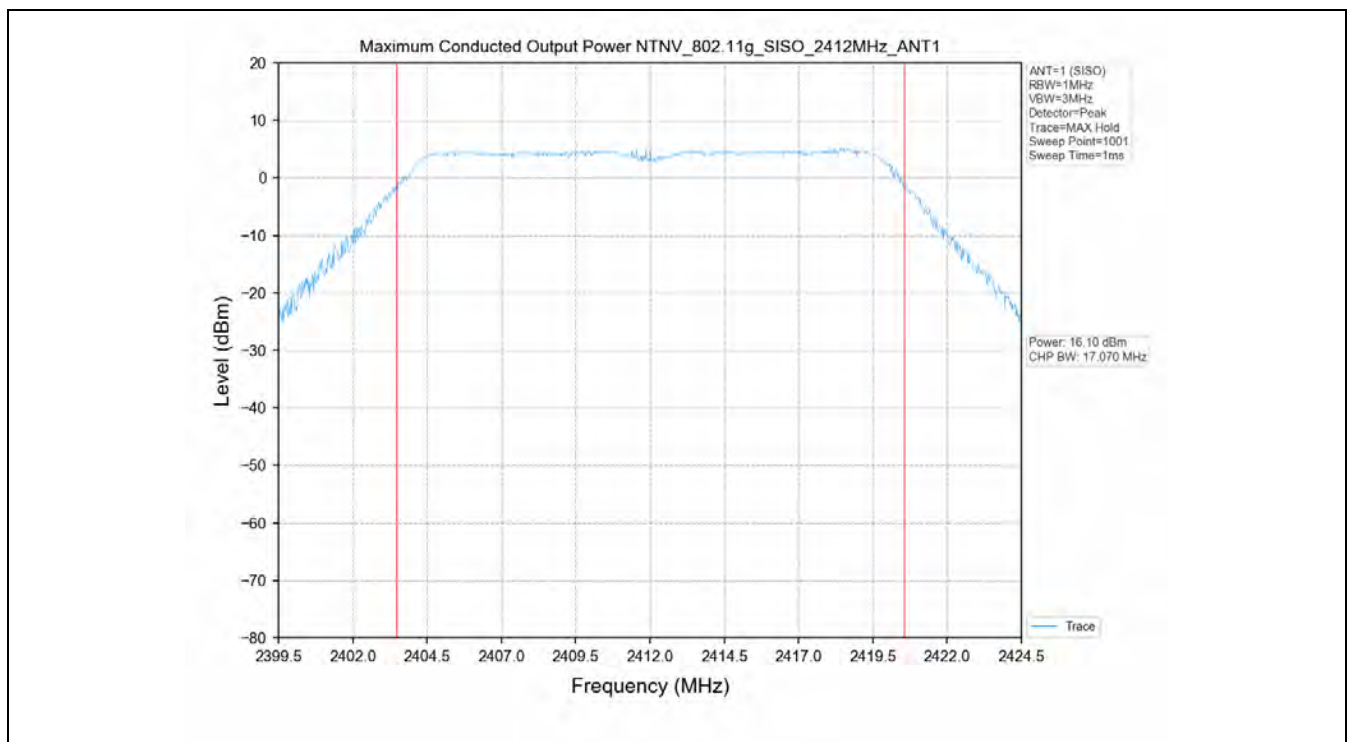
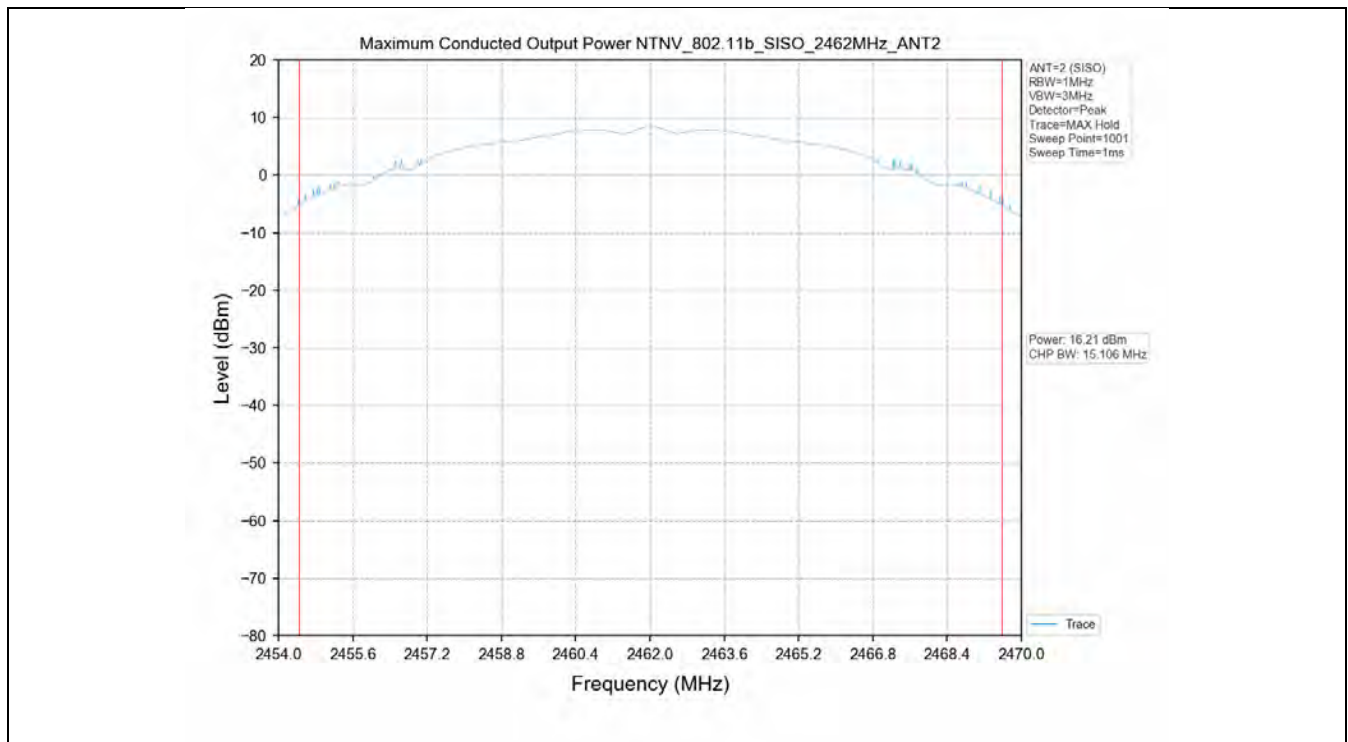
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	15.71	15.67	/	30	PASS
	2437	SISO	16.16	15.96	/	30	PASS
	2462	SISO	16.34	16.21	/	30	PASS
802.11g	2412	SISO	16.10	16.26	/	30	PASS
	2437	SISO	16.60	16.65	/	30	PASS
	2462	SISO	16.89	16.83	/	30	PASS
802.11n(HT20)	2412	MIMO	15.61	16.06	18.85	30	PASS
	2437	MIMO	15.95	16.26	19.12	30	PASS
	2462	MIMO	16.25	16.50	19.39	30	PASS
802.11n(HT40)	2422	MIMO	15.00	15.22	18.12	30	PASS
	2437	MIMO	15.25	15.38	18.33	30	PASS
	2452	MIMO	15.36	15.54	18.46	30	PASS

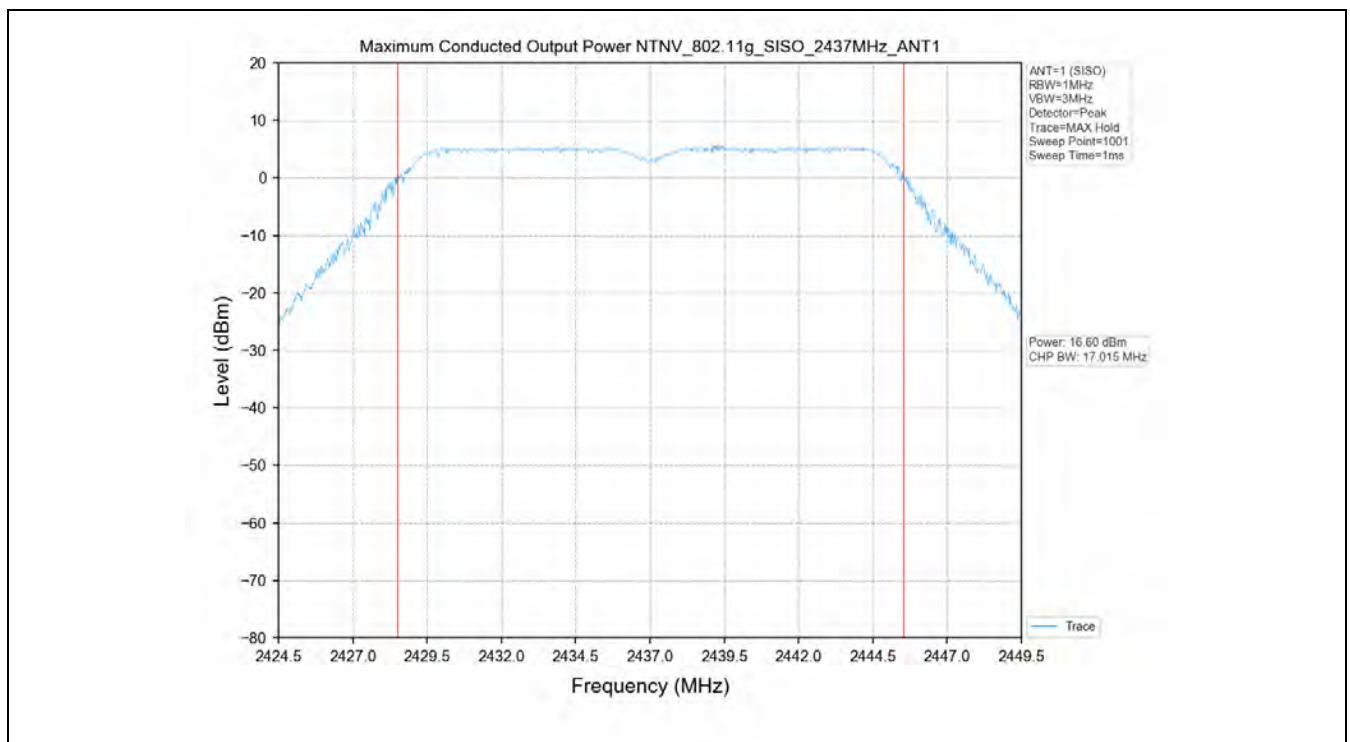
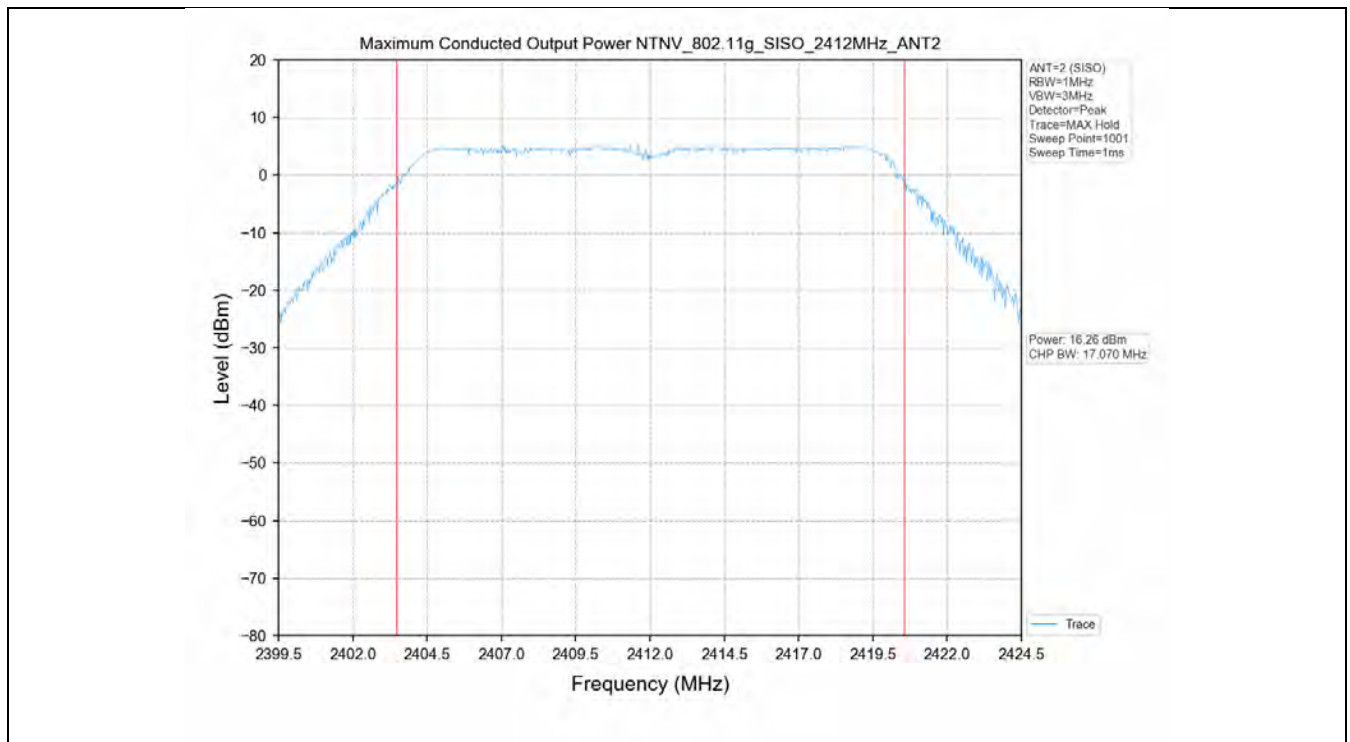
3.2 Test Graph

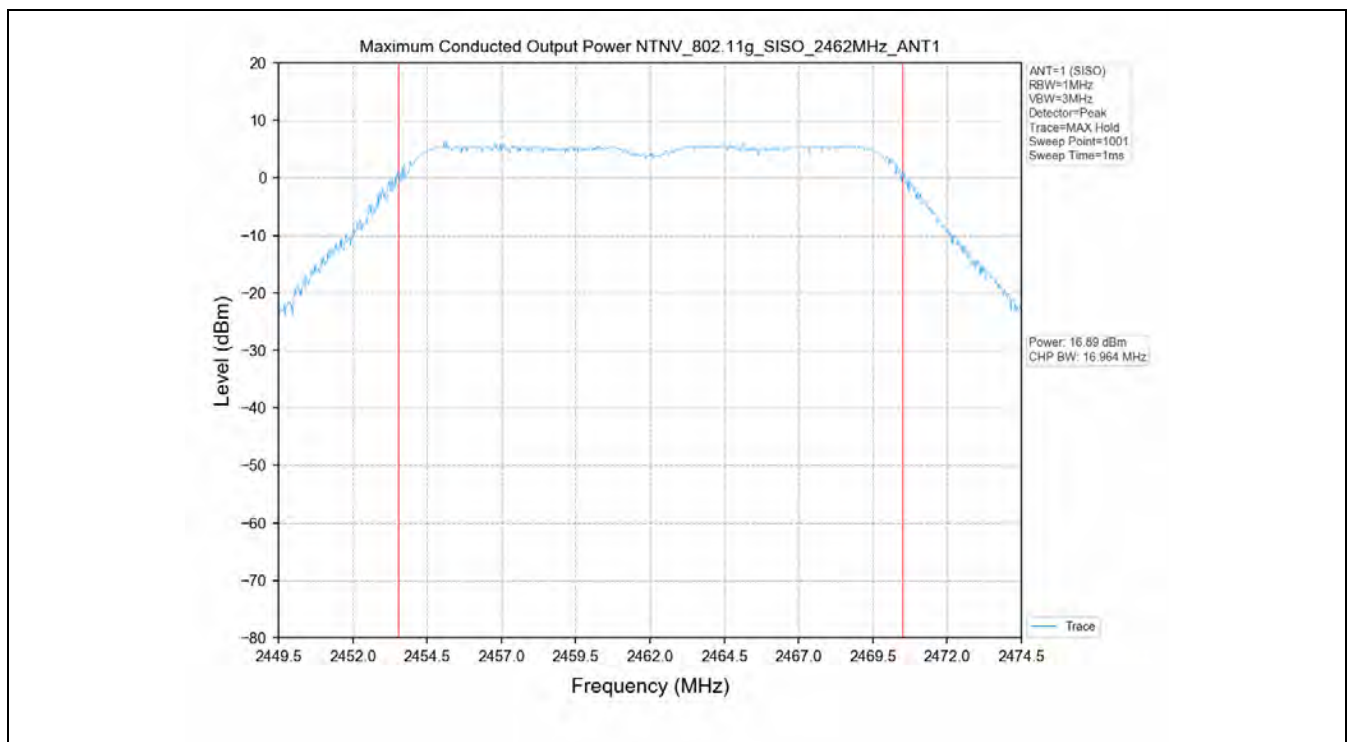
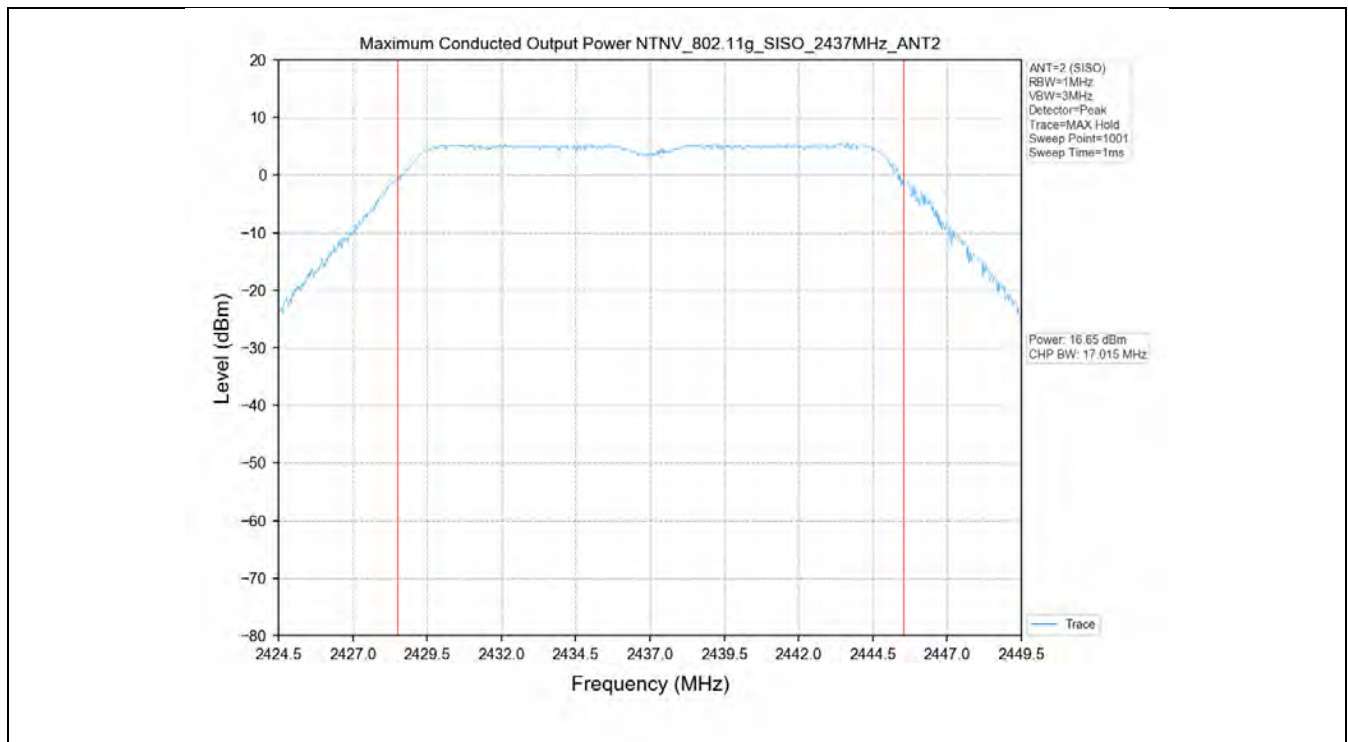


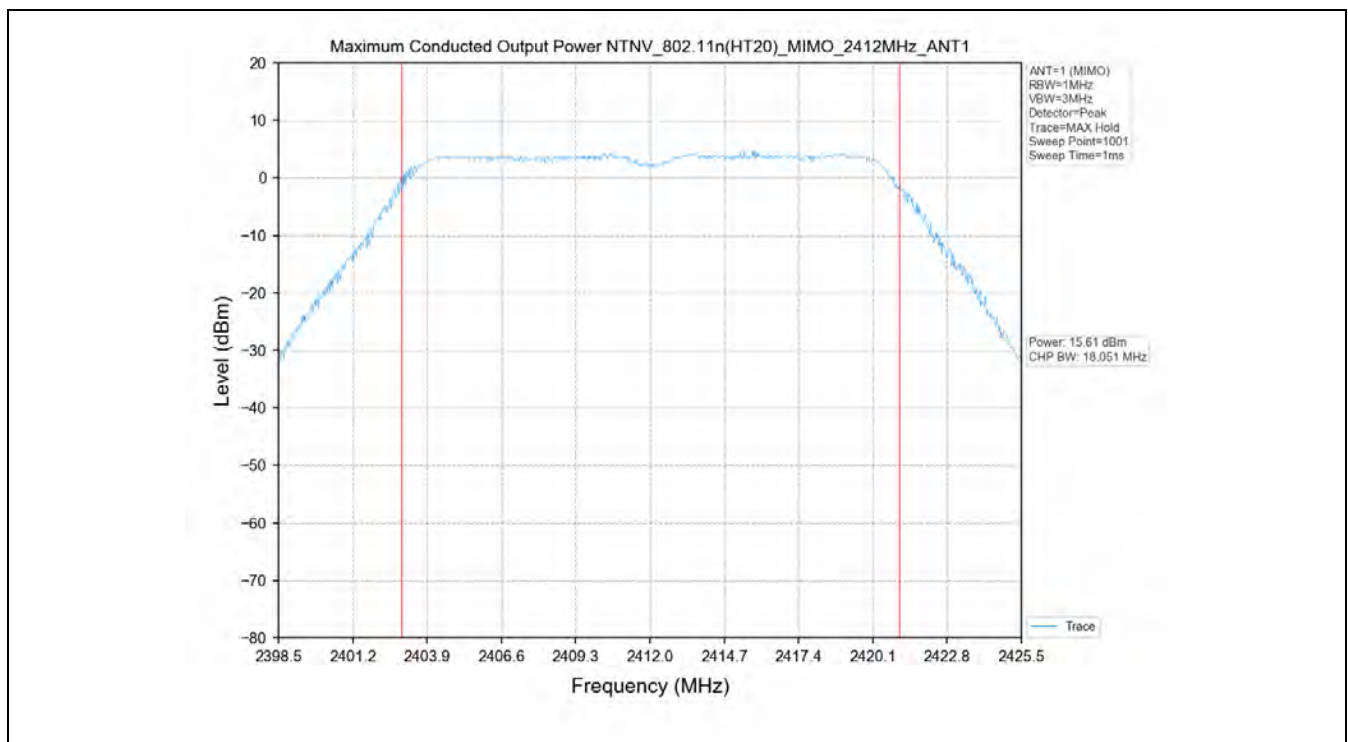
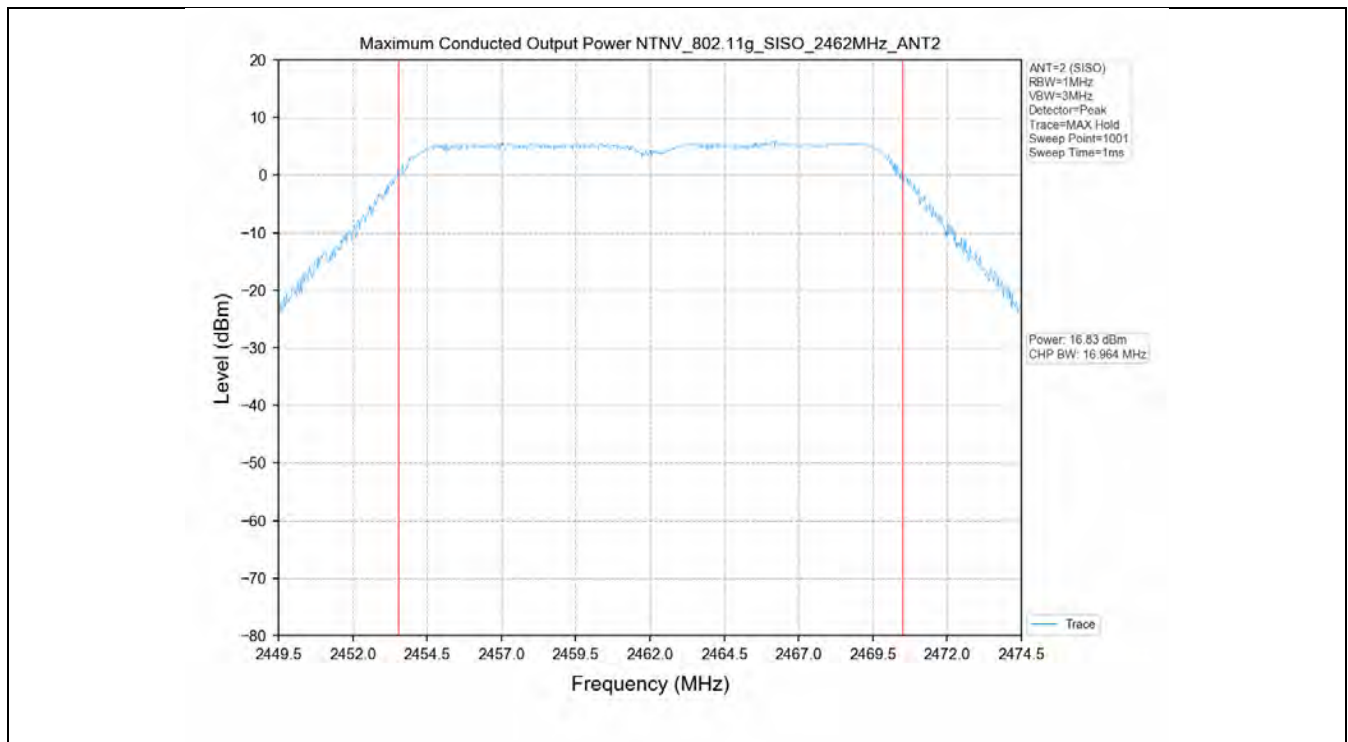


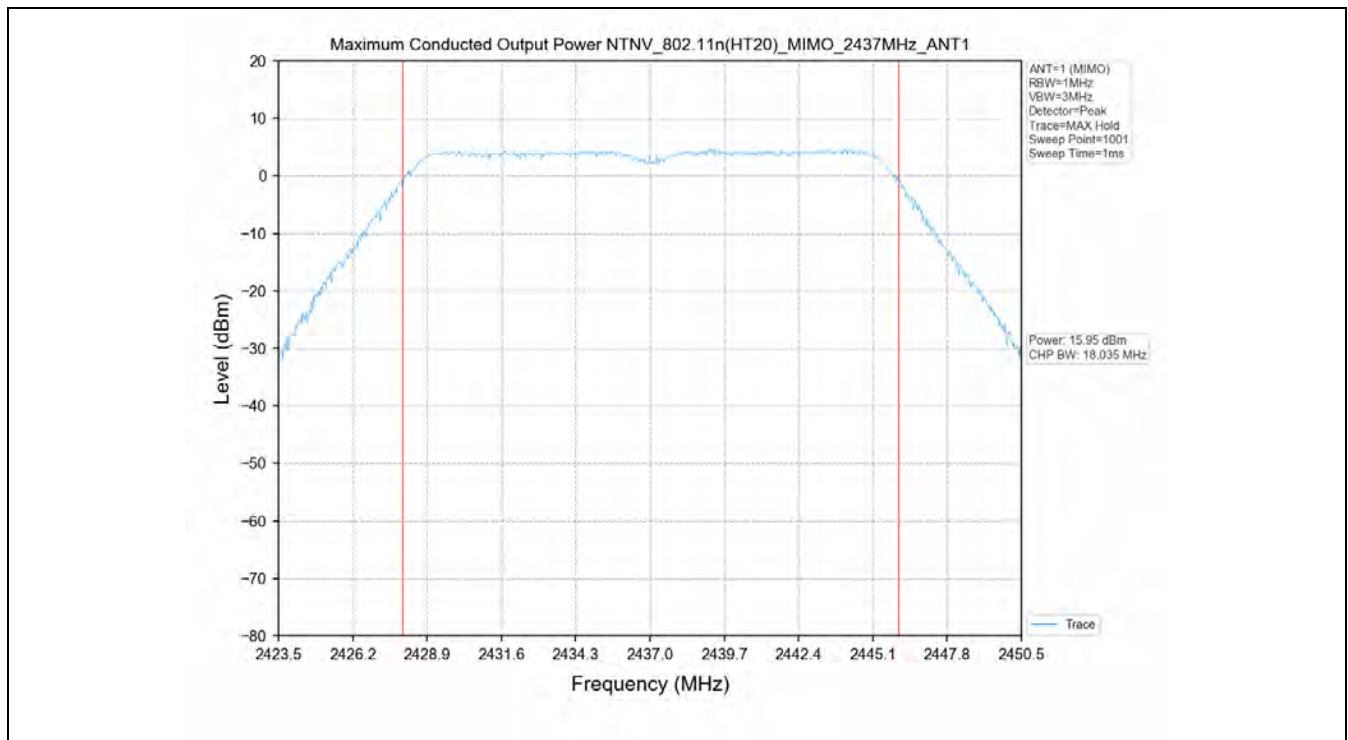
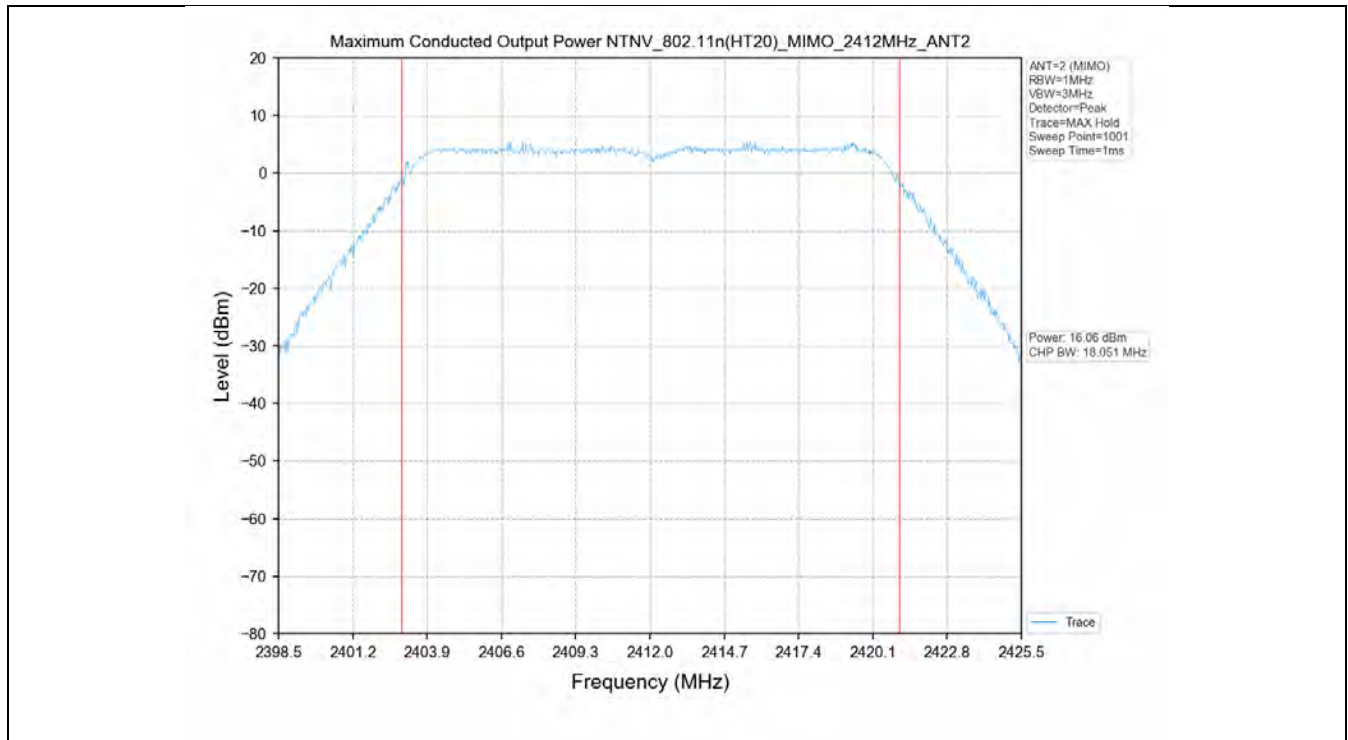


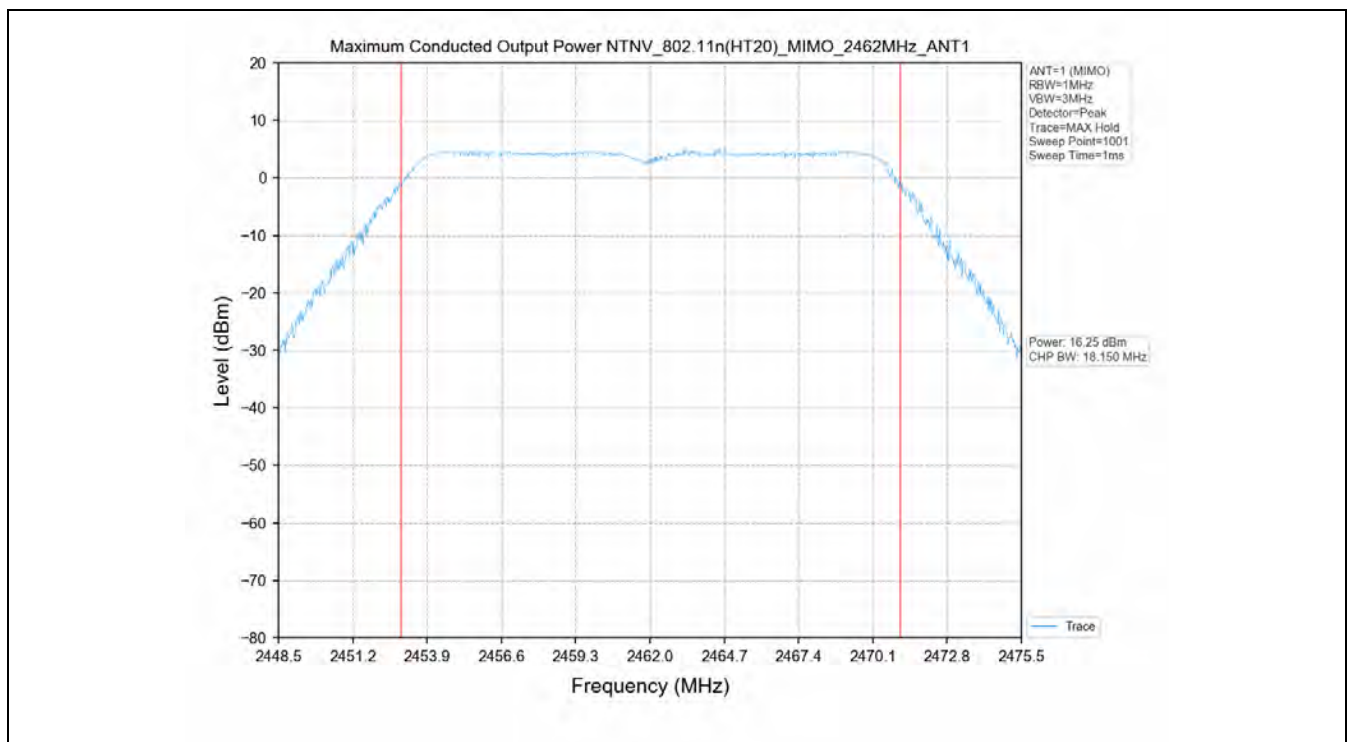
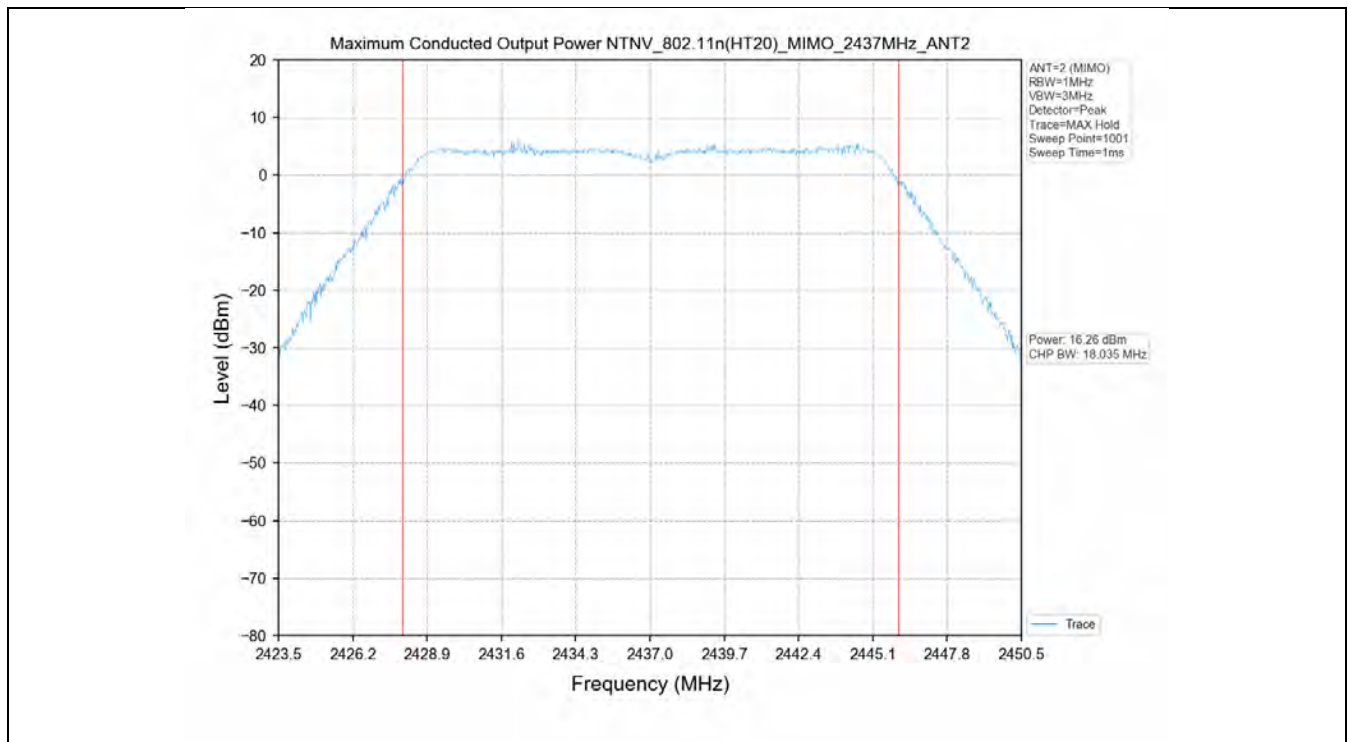


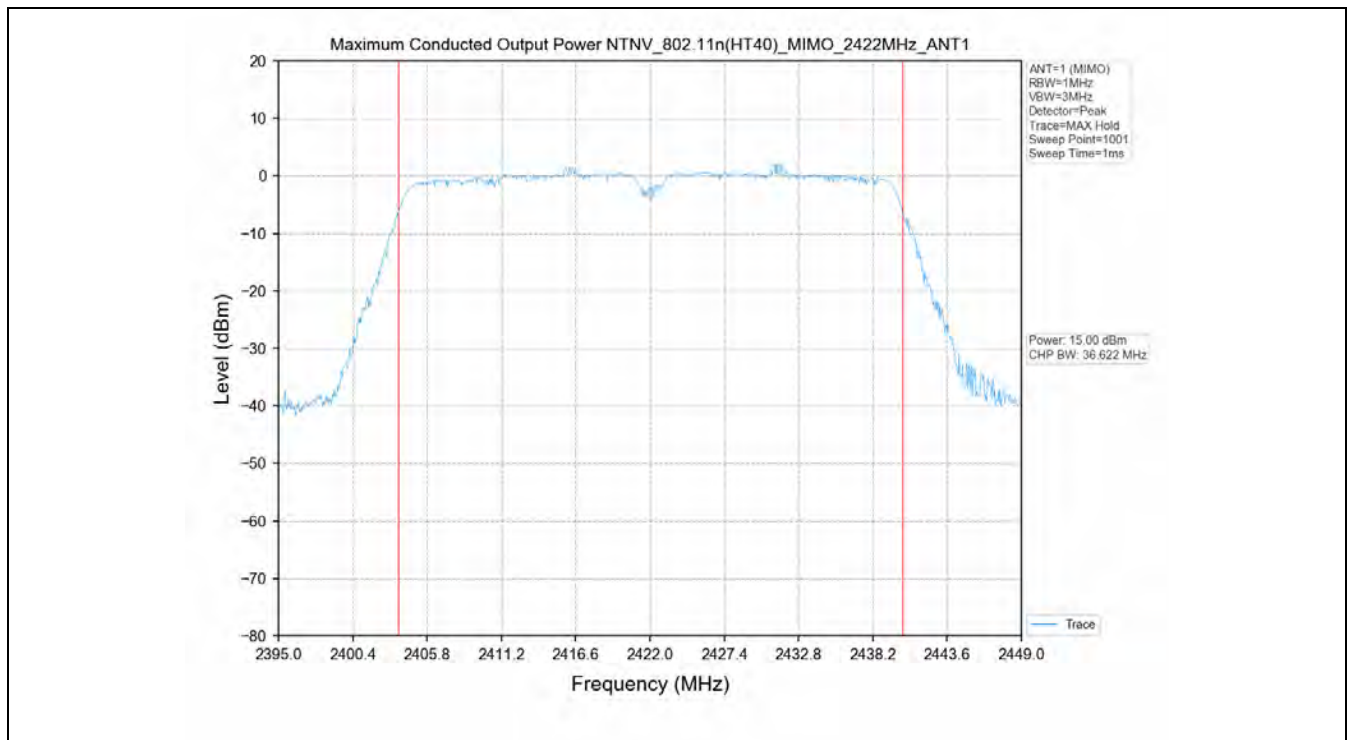
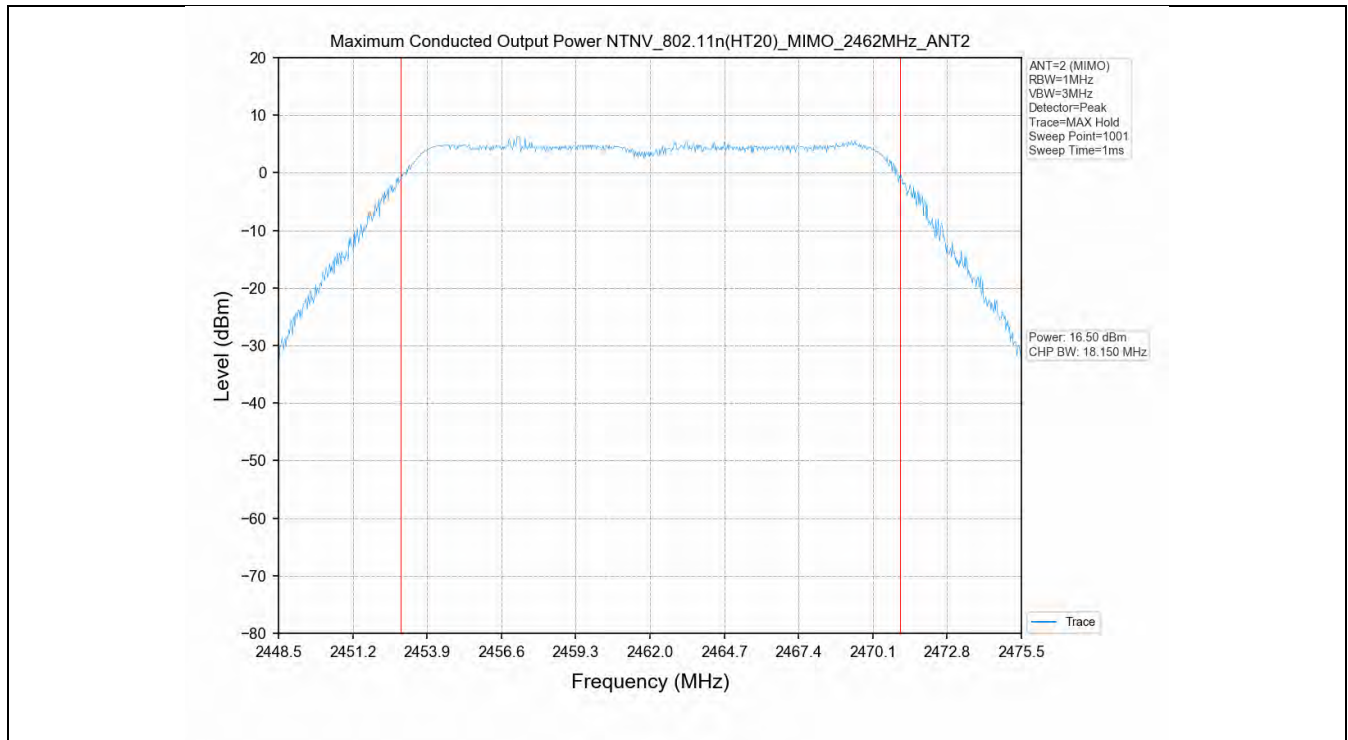


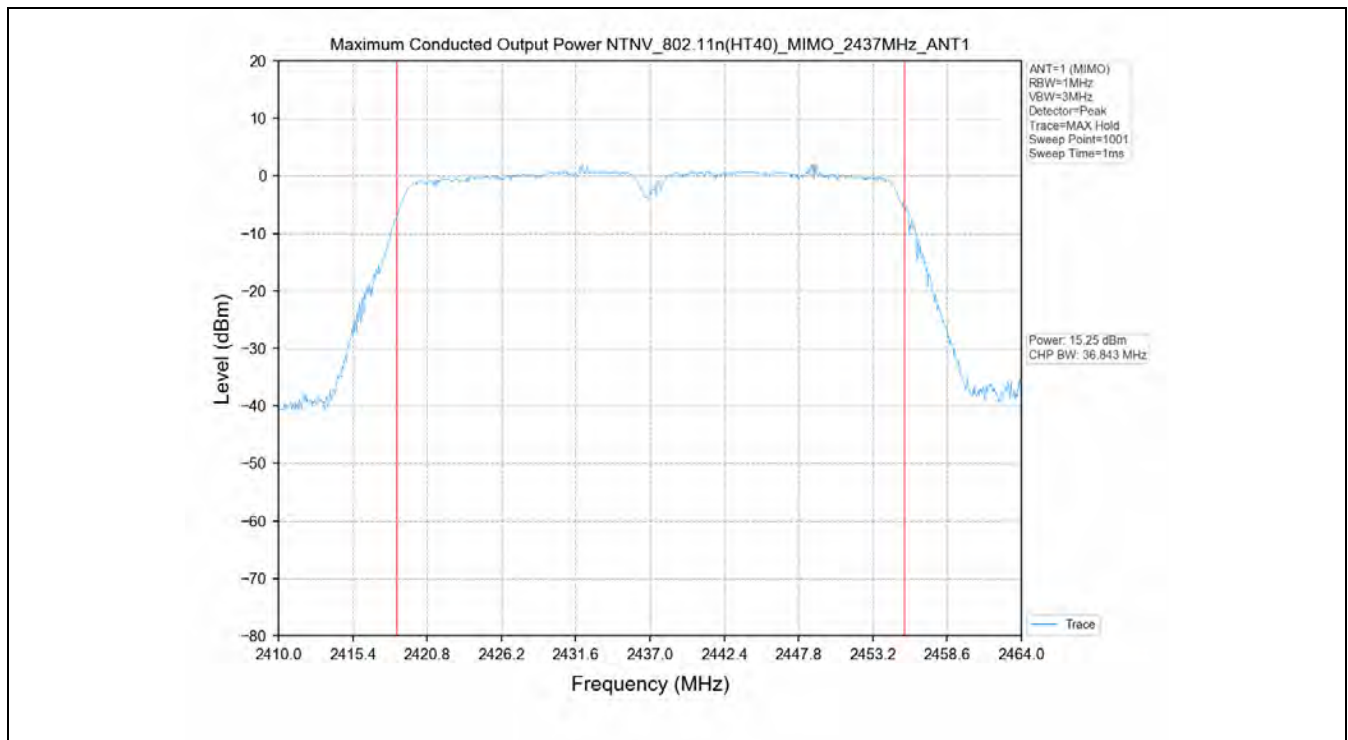
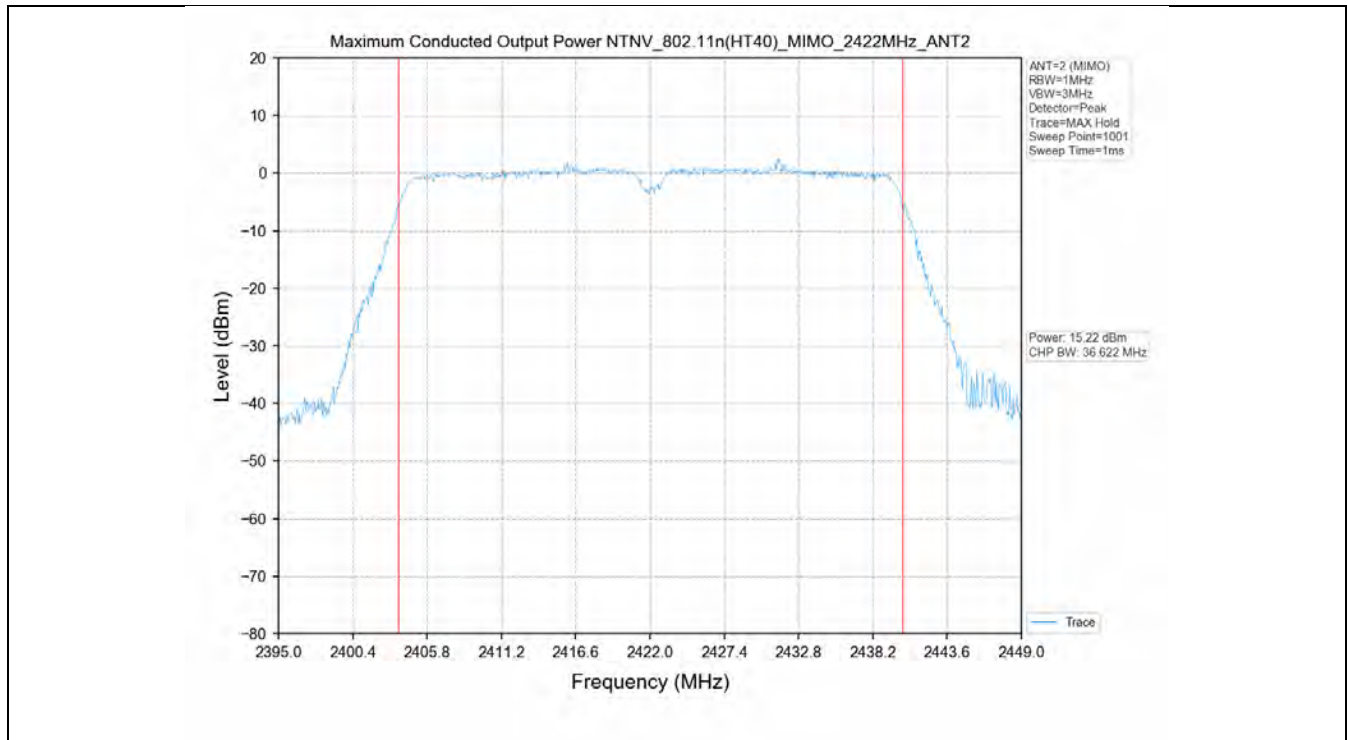


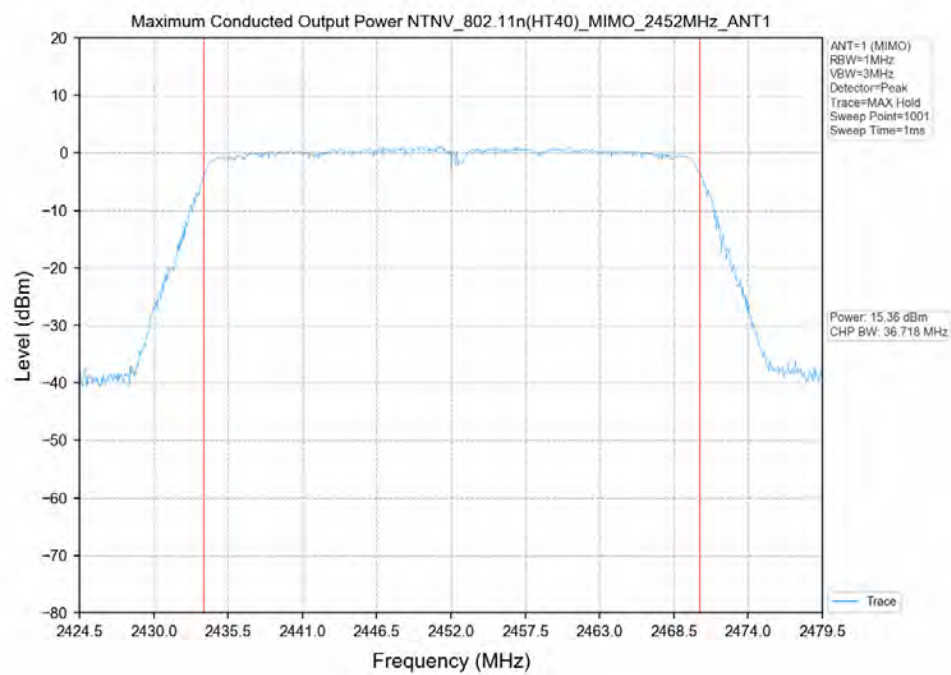
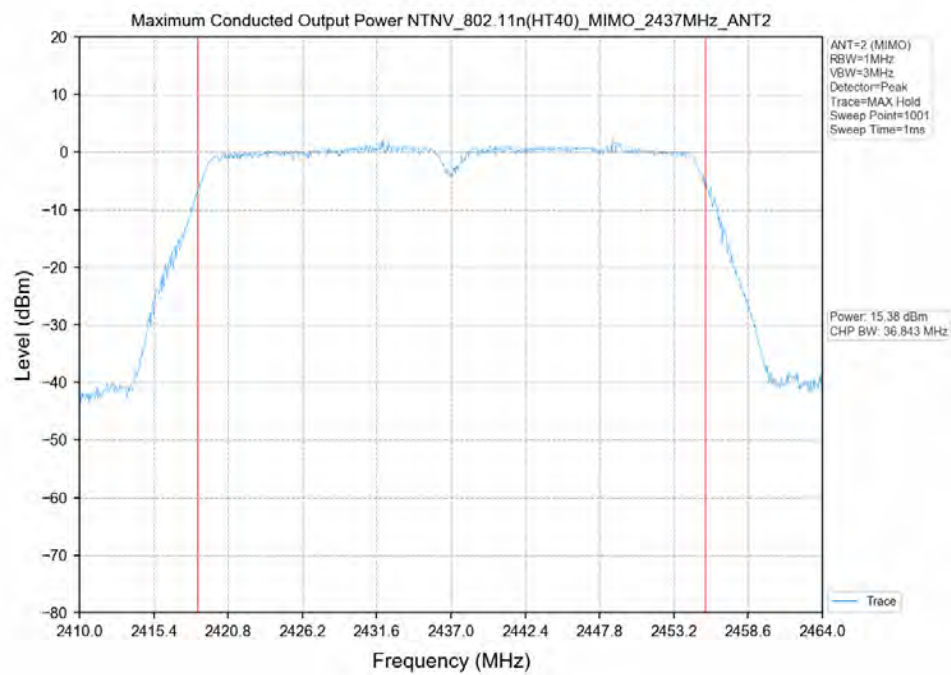


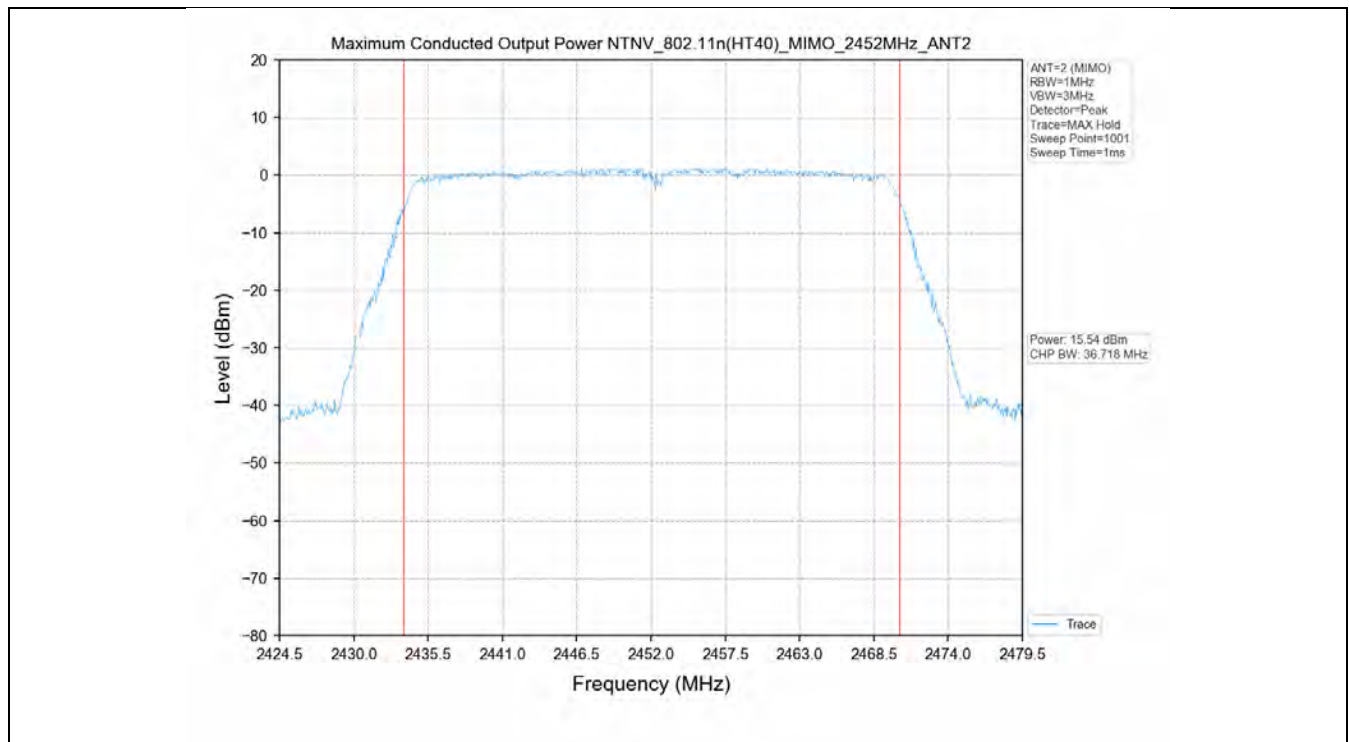










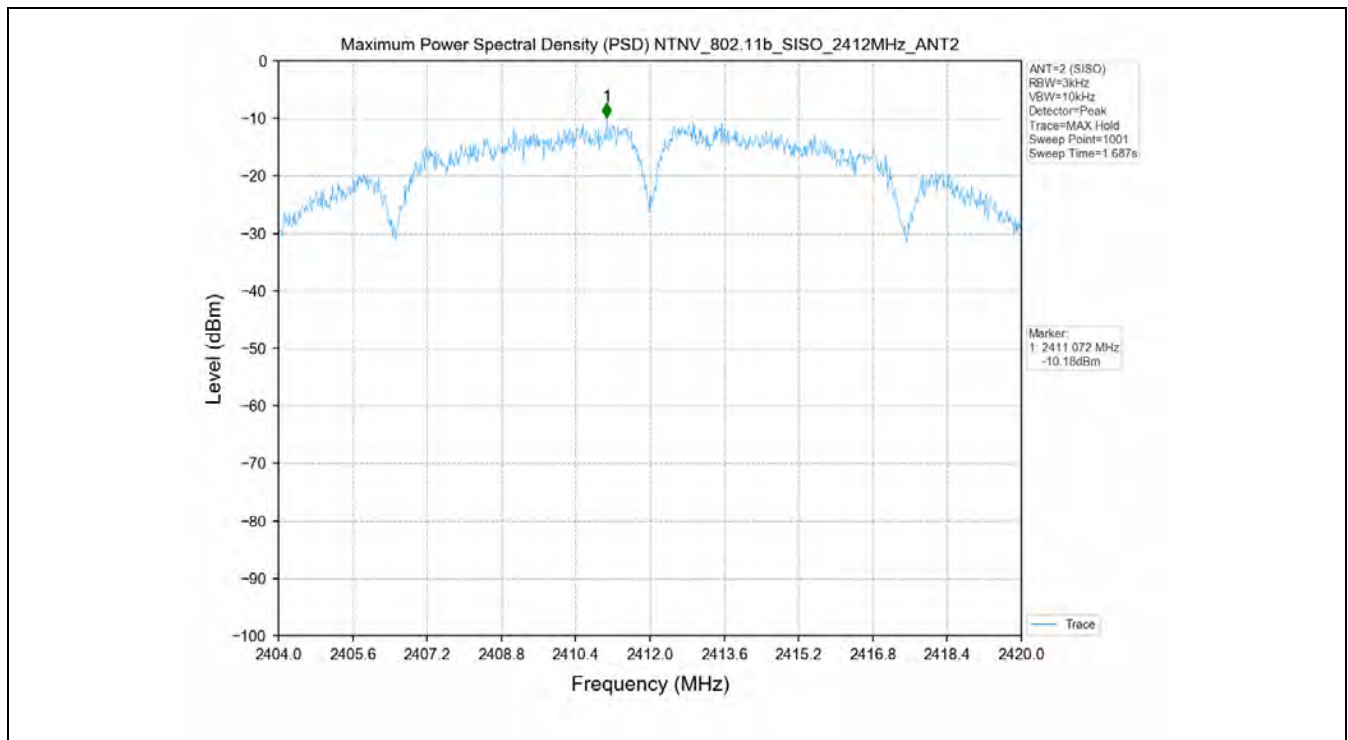
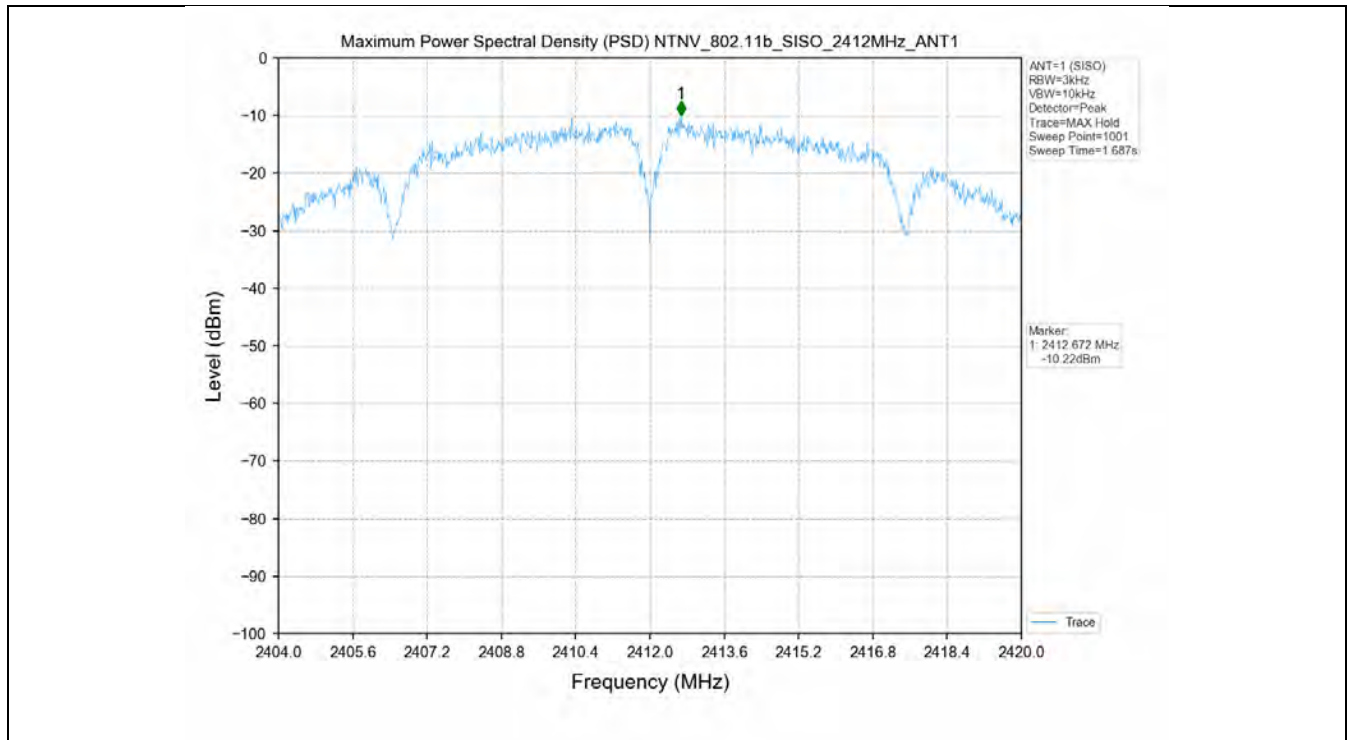


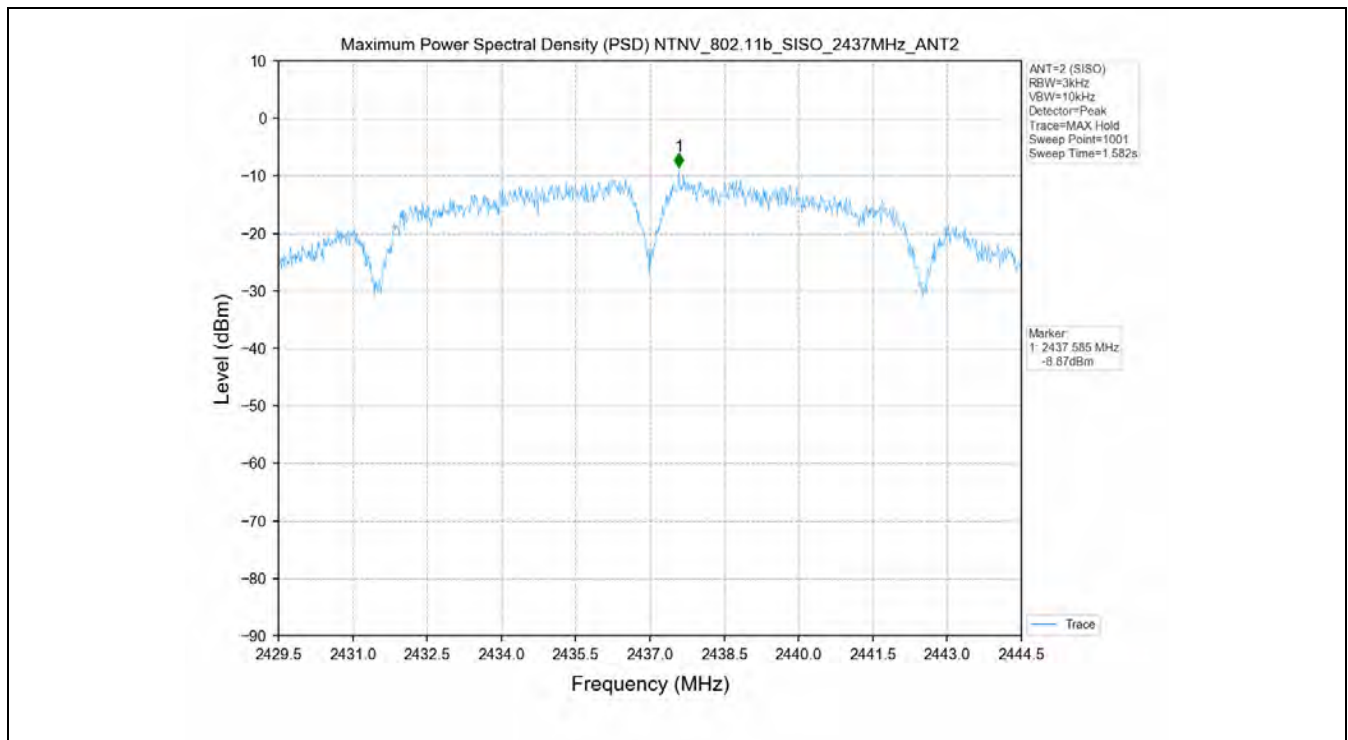
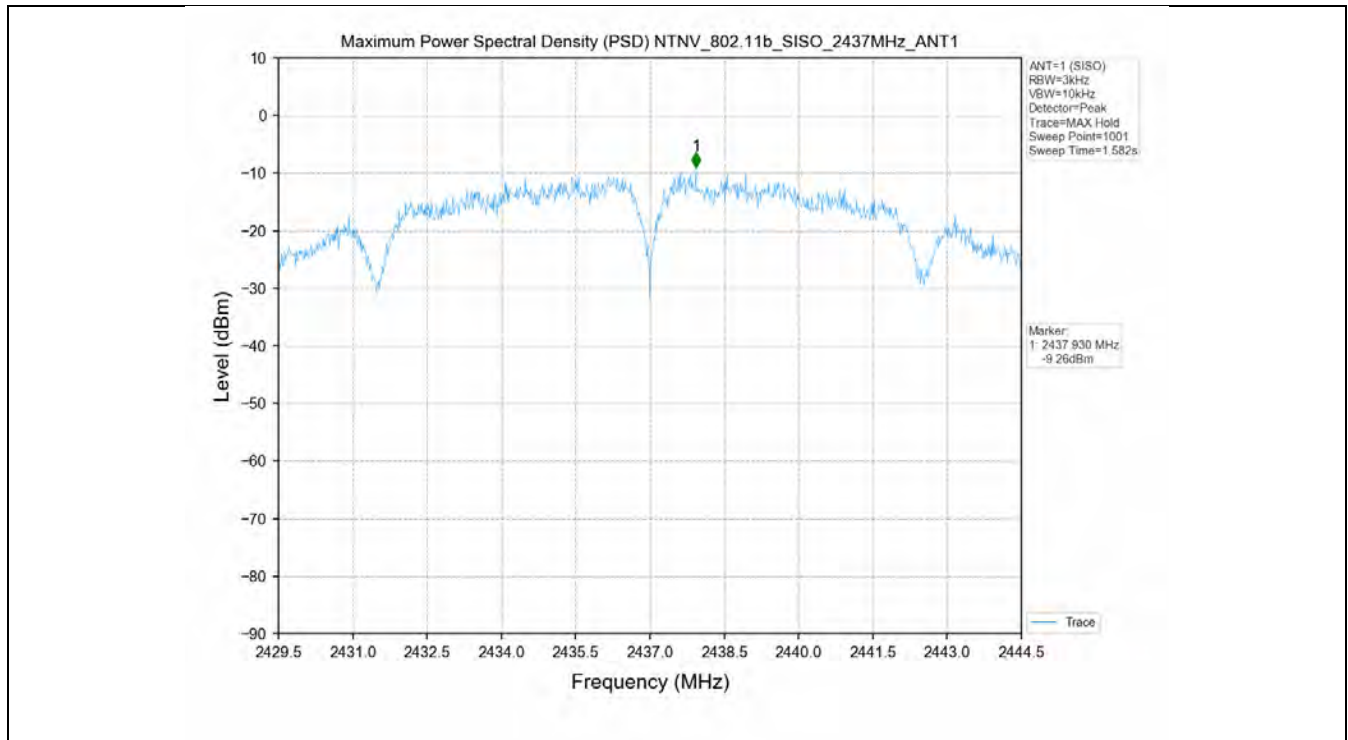
4. Maximum Power Spectral Density (PSD)

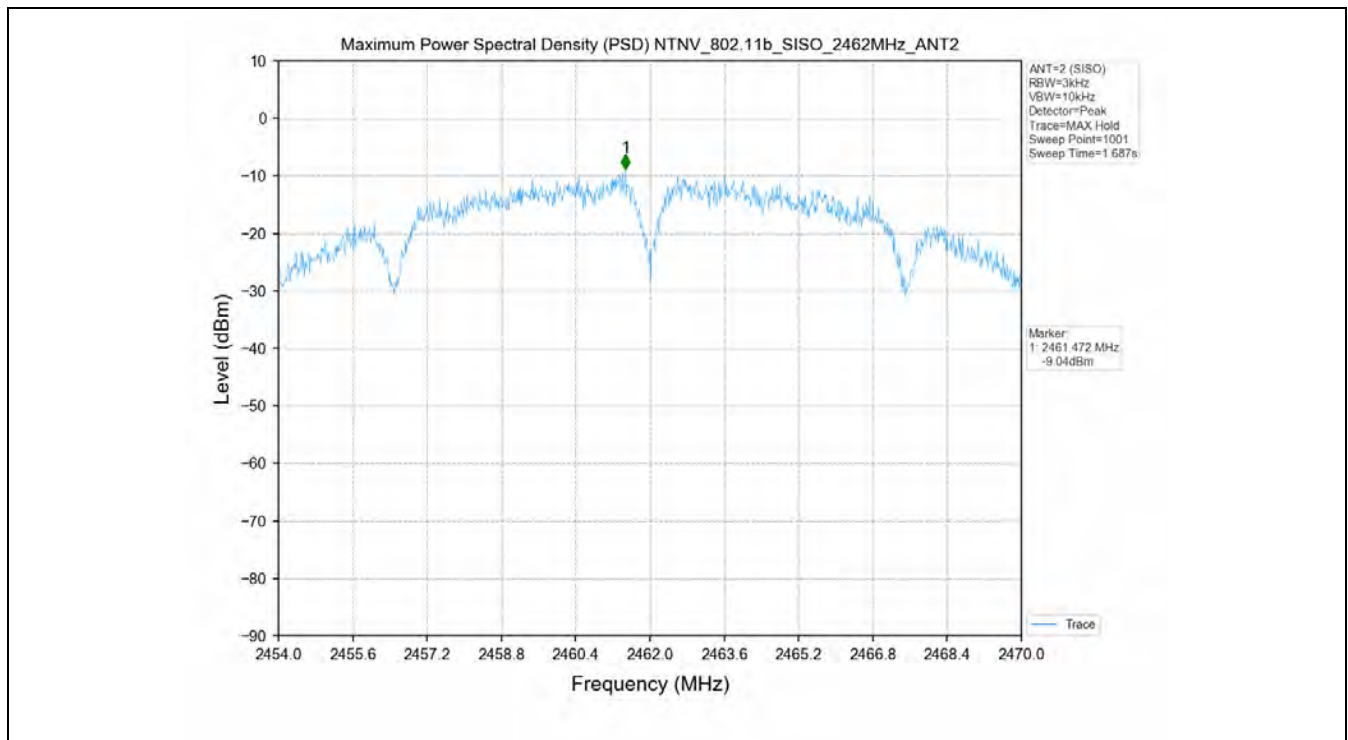
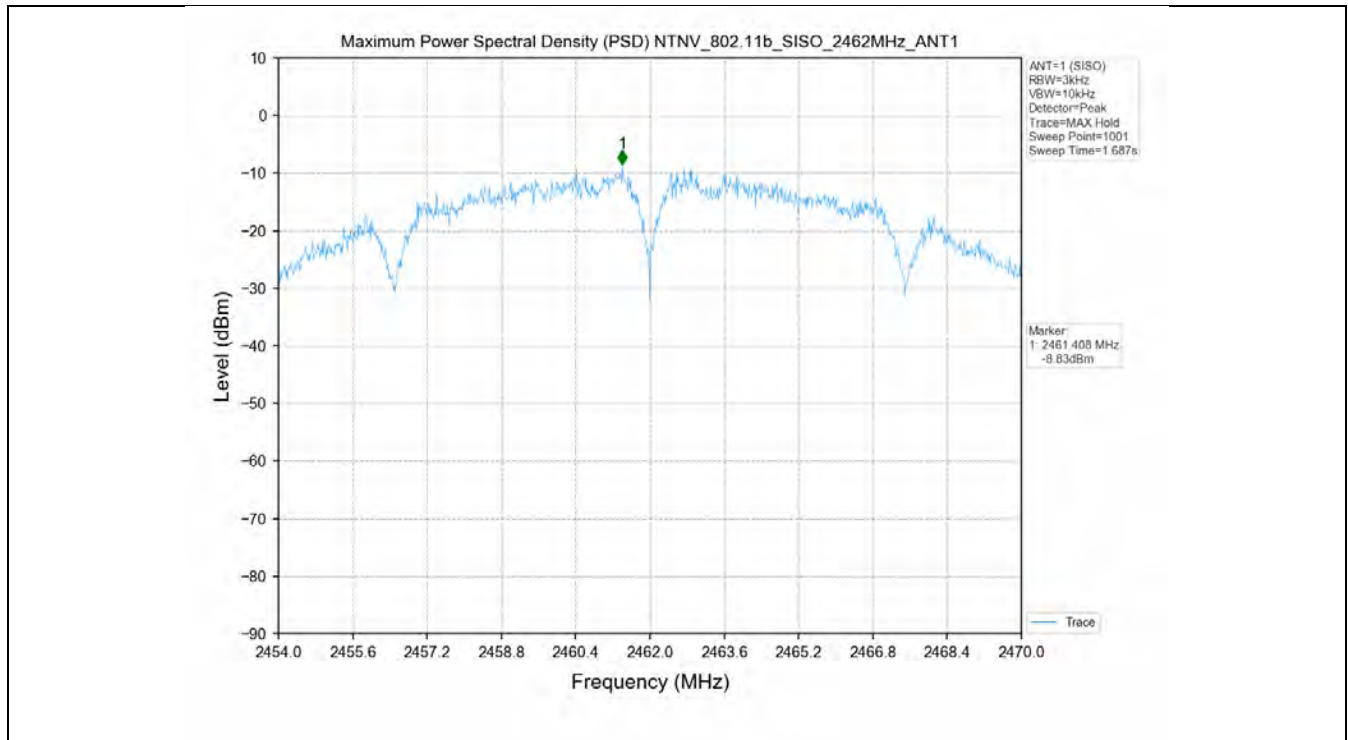
4.1 Test Result

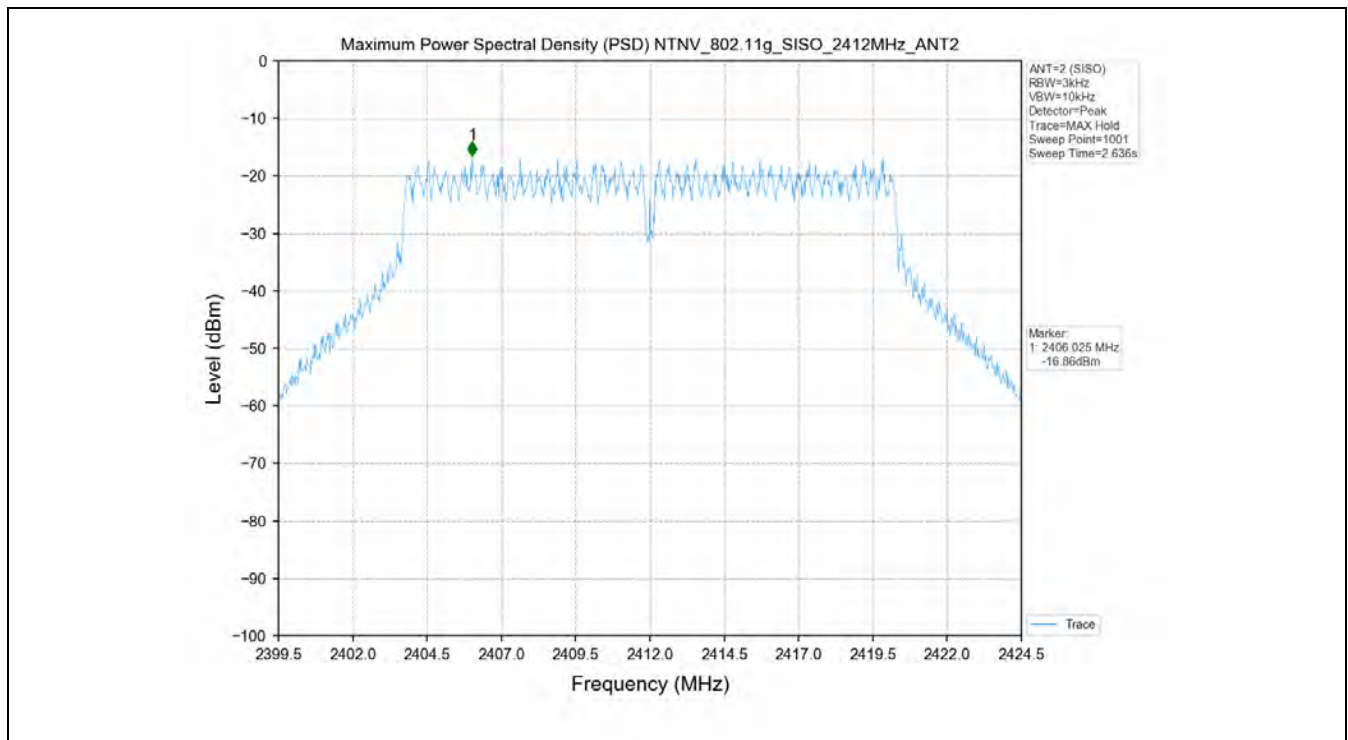
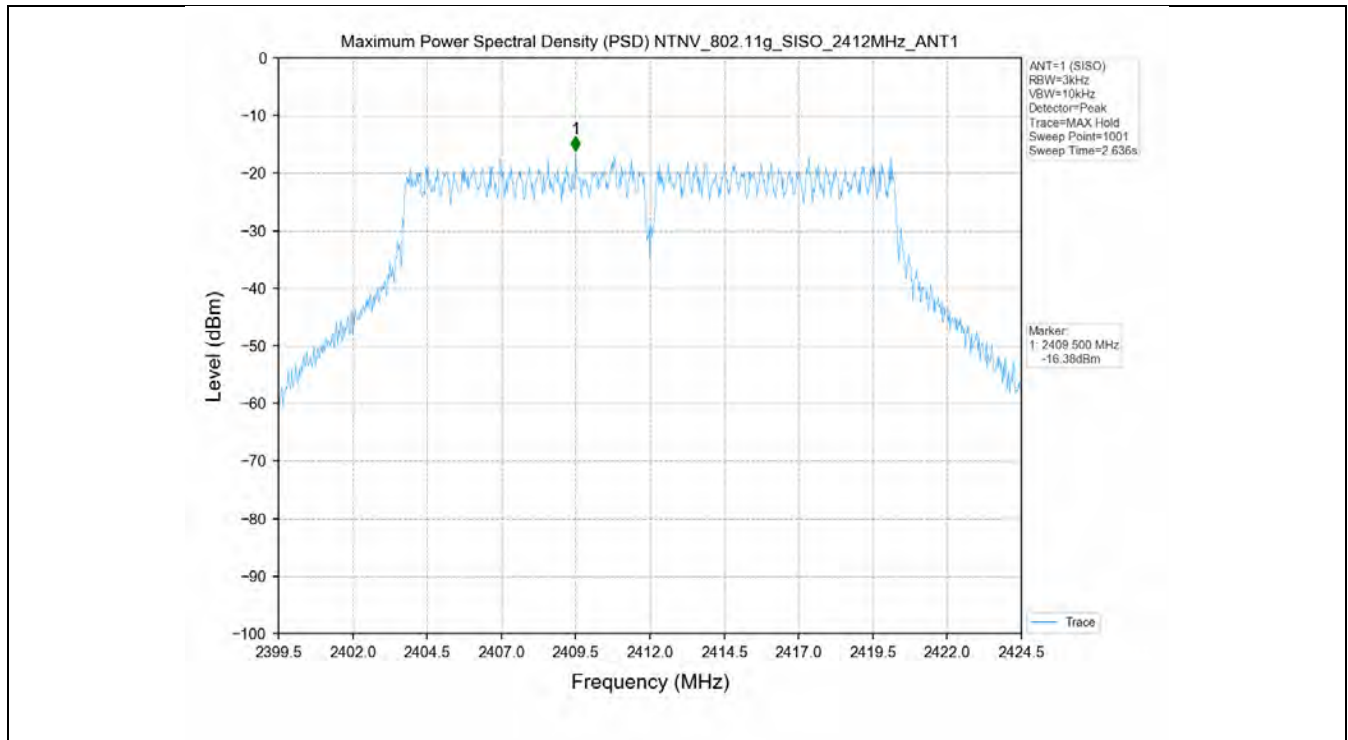
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-10.22	-10.18	/	≤8	PASS
	2437	SISO	-9.26	-8.87	/	≤8	PASS
	2462	SISO	-8.83	-9.04	/	≤8	PASS
802.11g	2412	SISO	-16.38	-16.86	/	≤8	PASS
	2437	SISO	-16.19	-16.62	/	≤8	PASS
	2462	SISO	-16.25	-15.85	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-17.05	-17.26	-14.44	≤8	PASS
	2437	MIMO	-16.59	-17.22	-13.88	≤8	PASS
	2462	MIMO	-16.90	-16.54	-13.76	≤8	PASS
802.11n(HT40)	2422	MIMO	-21.10	-20.56	-17.88	≤8	PASS
	2437	MIMO	-20.65	-21.07	-18.08	≤8	PASS
	2452	MIMO	-21.23	-20.92	-18.83	≤8	PASS

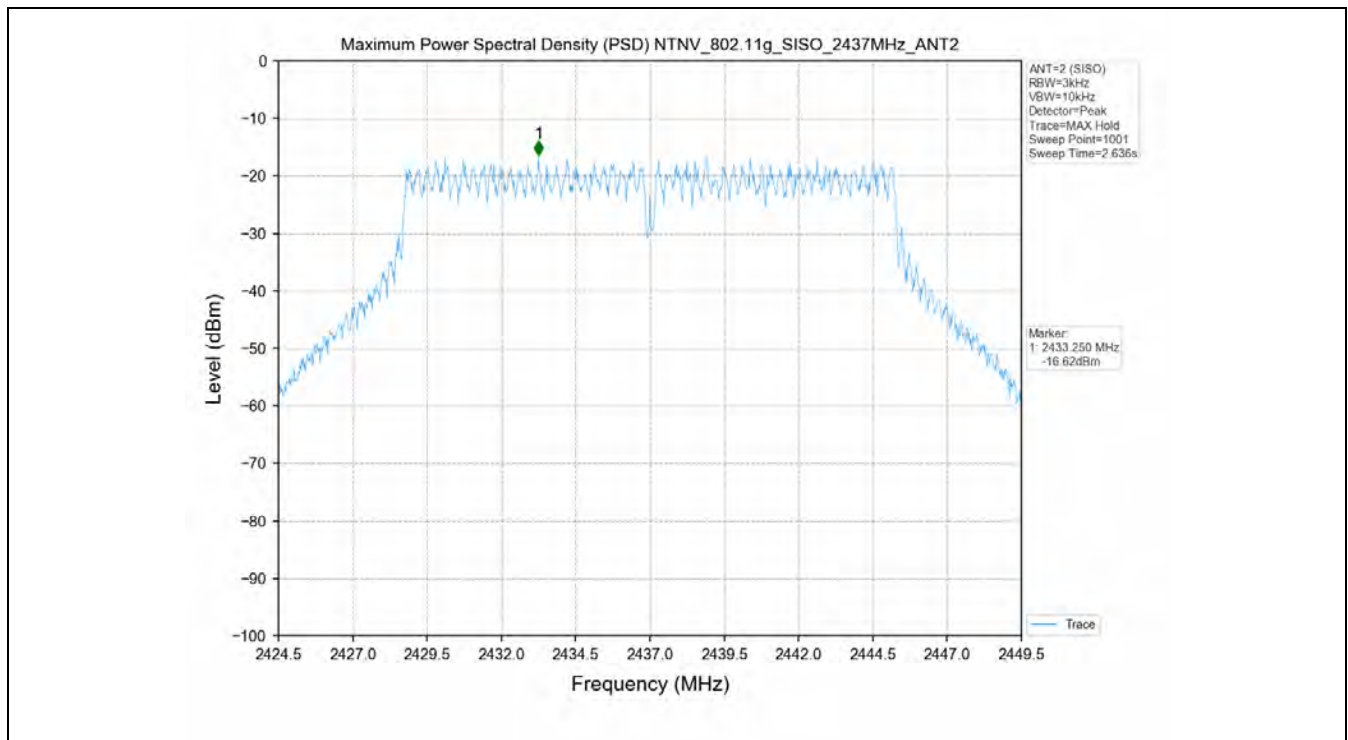
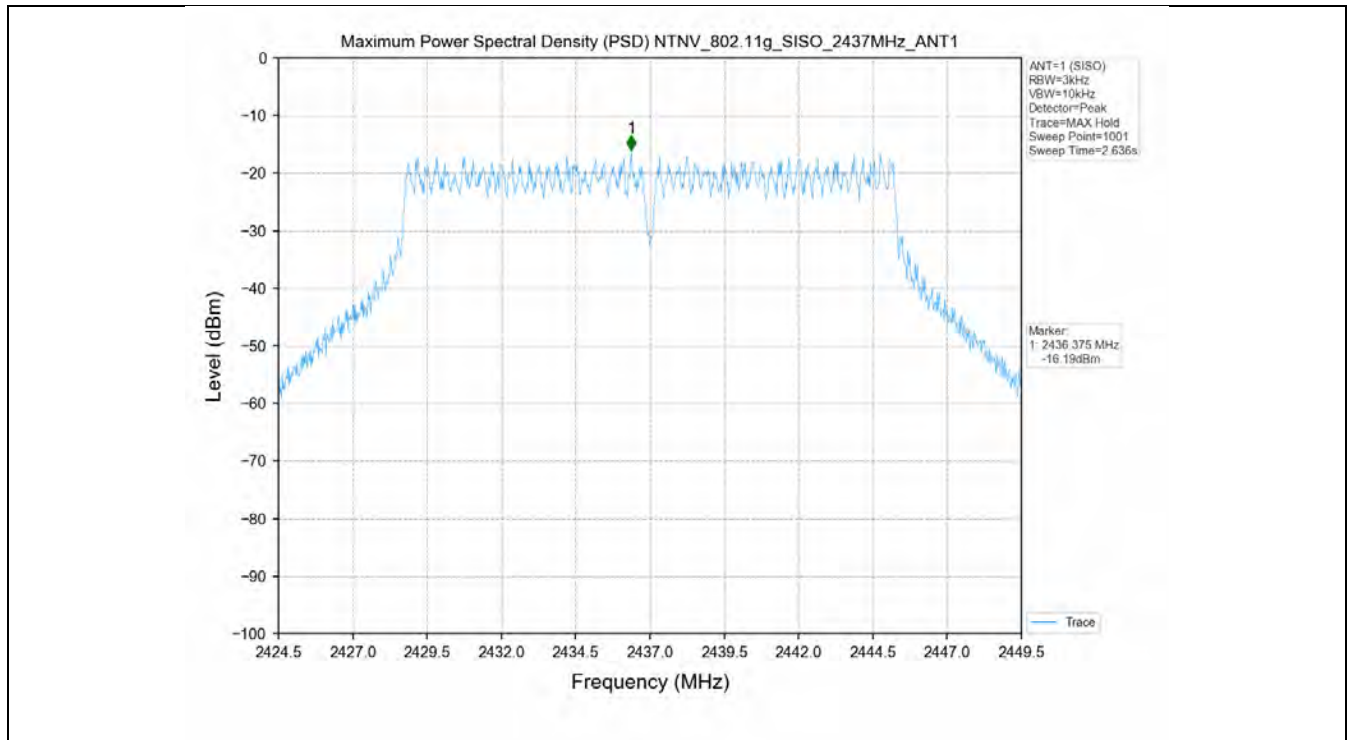
4.2 Test Graph

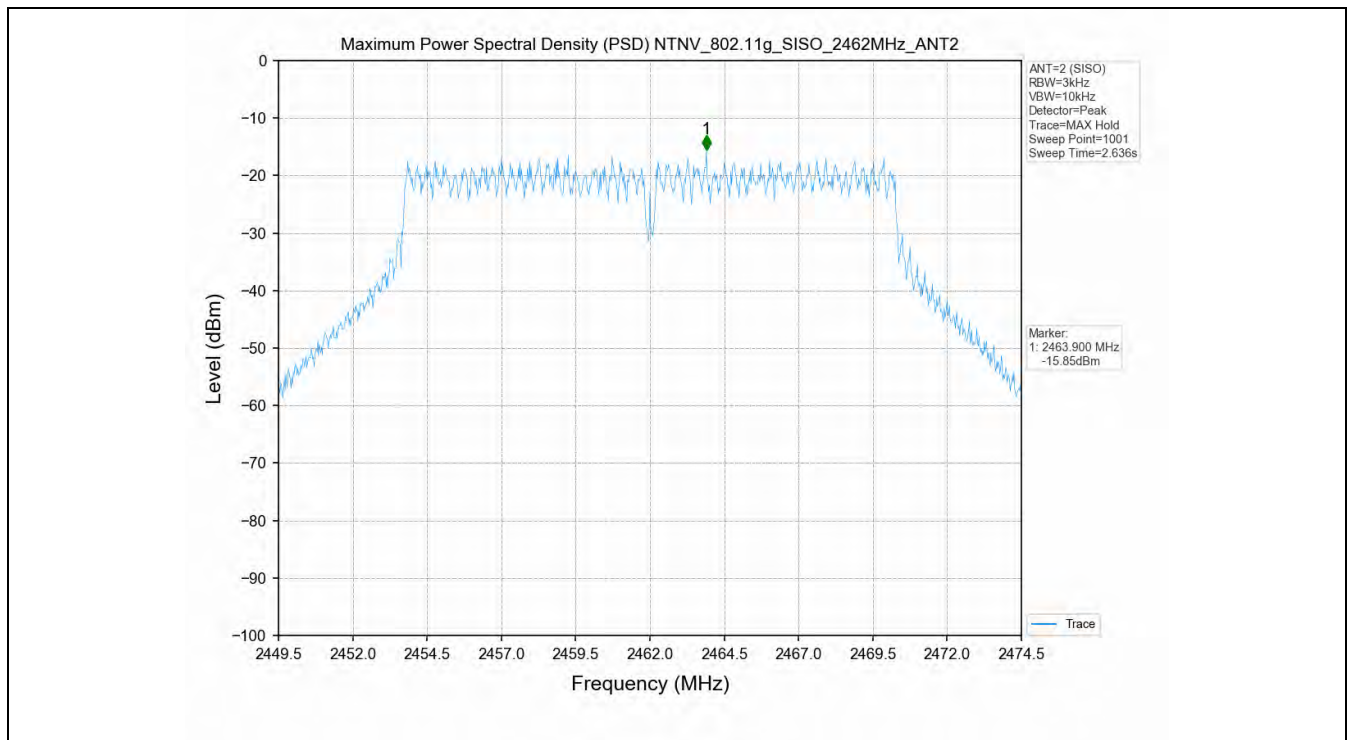
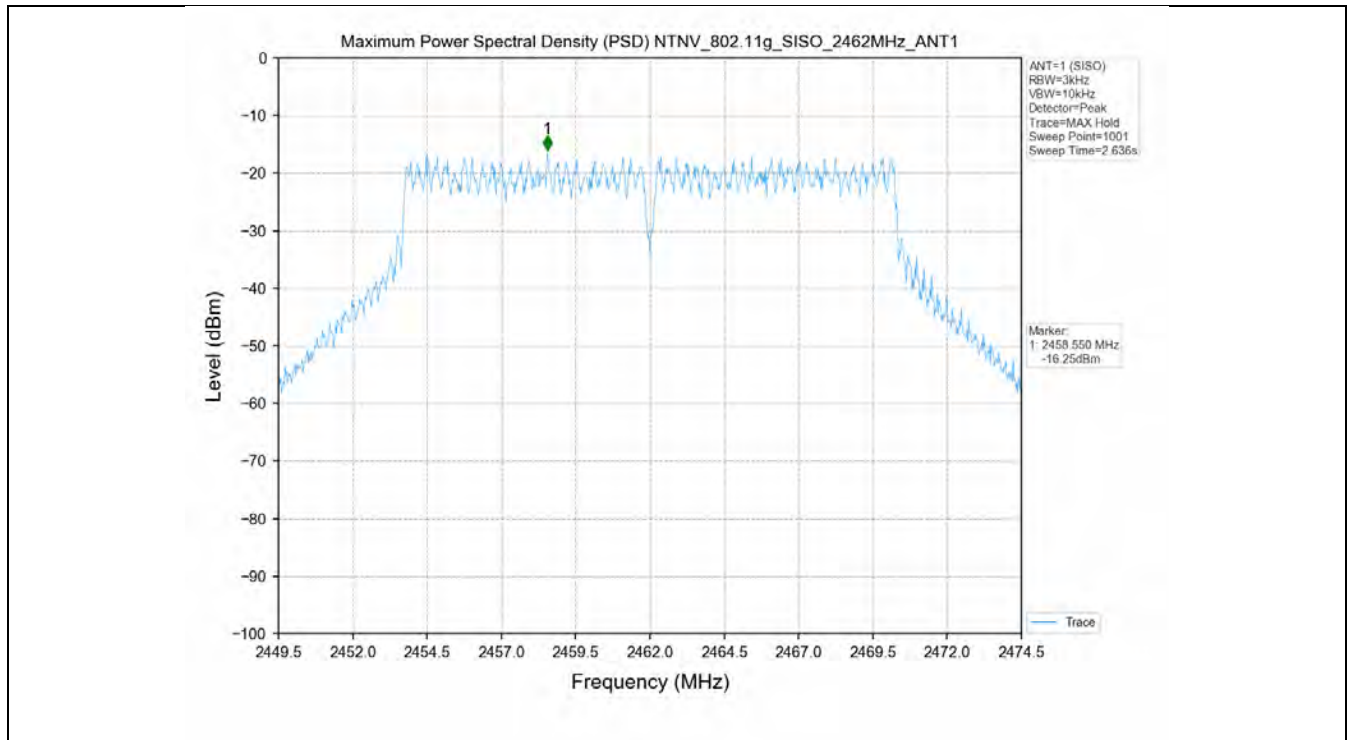


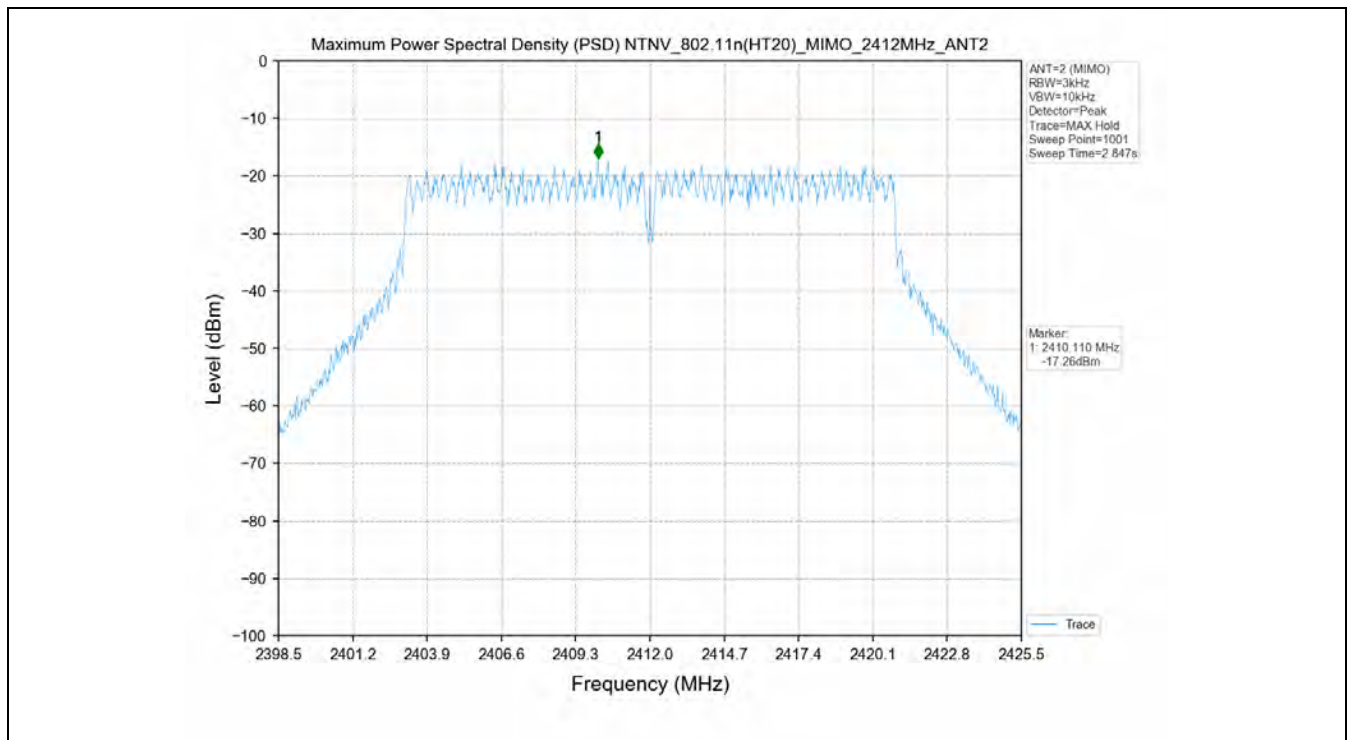
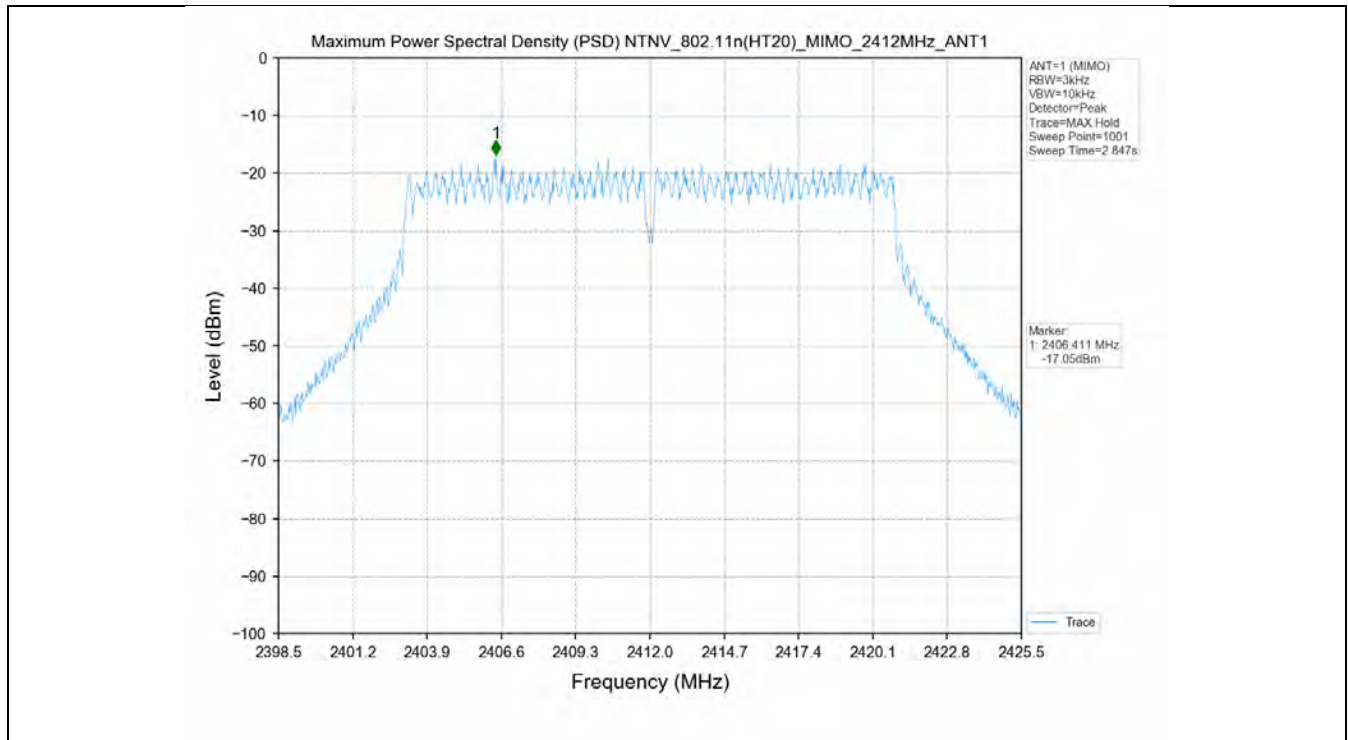


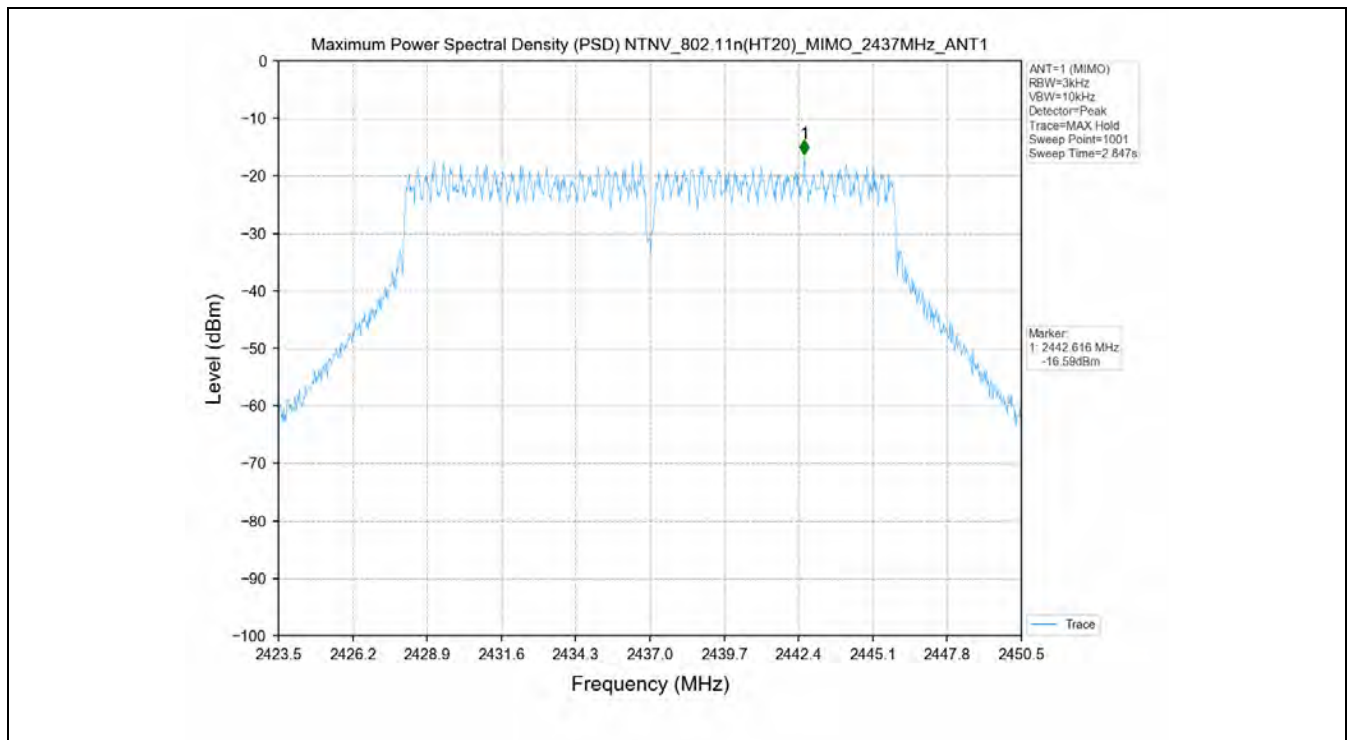
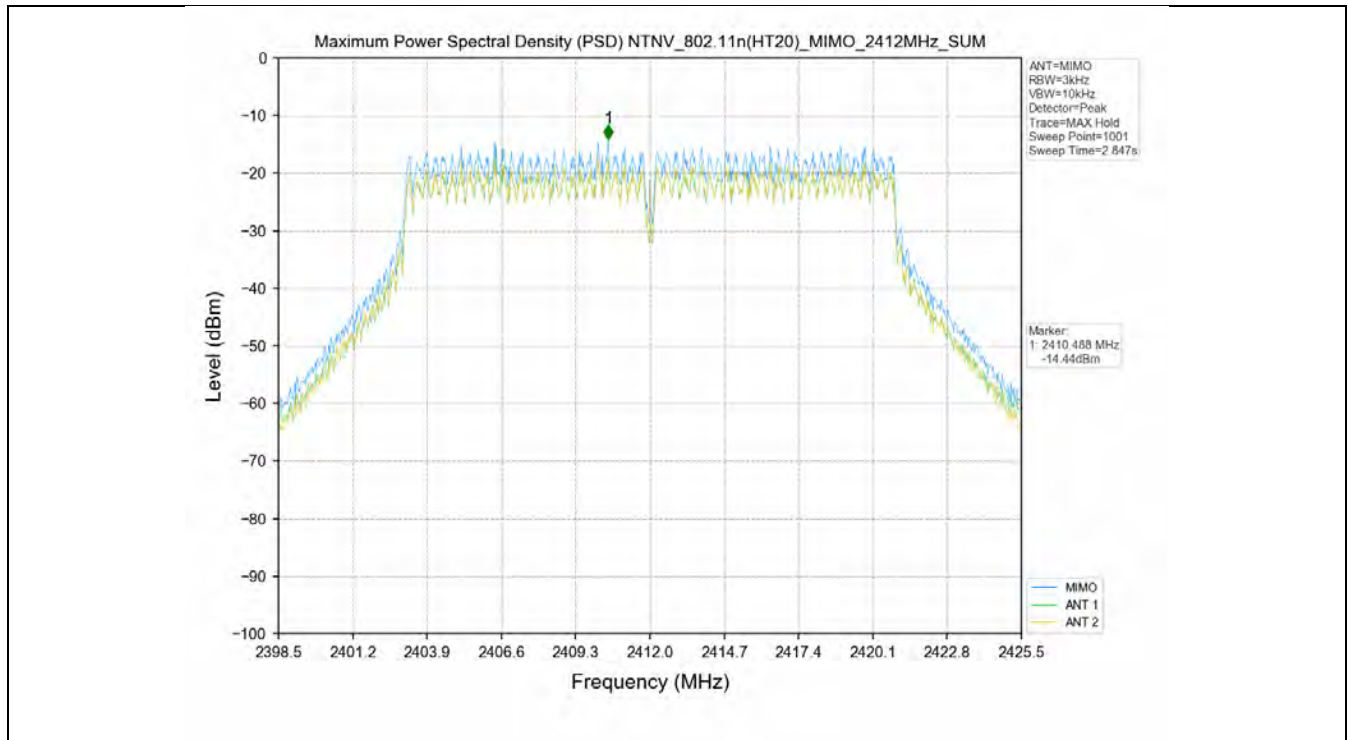


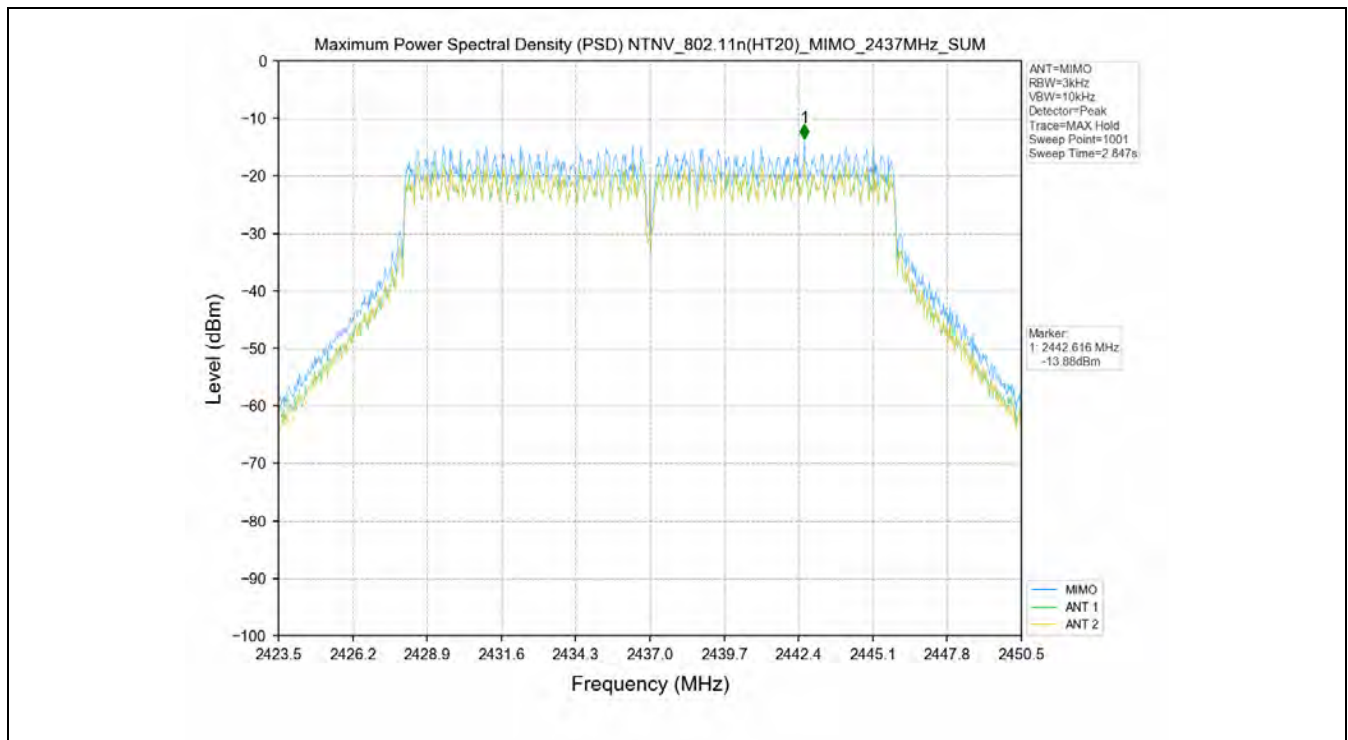
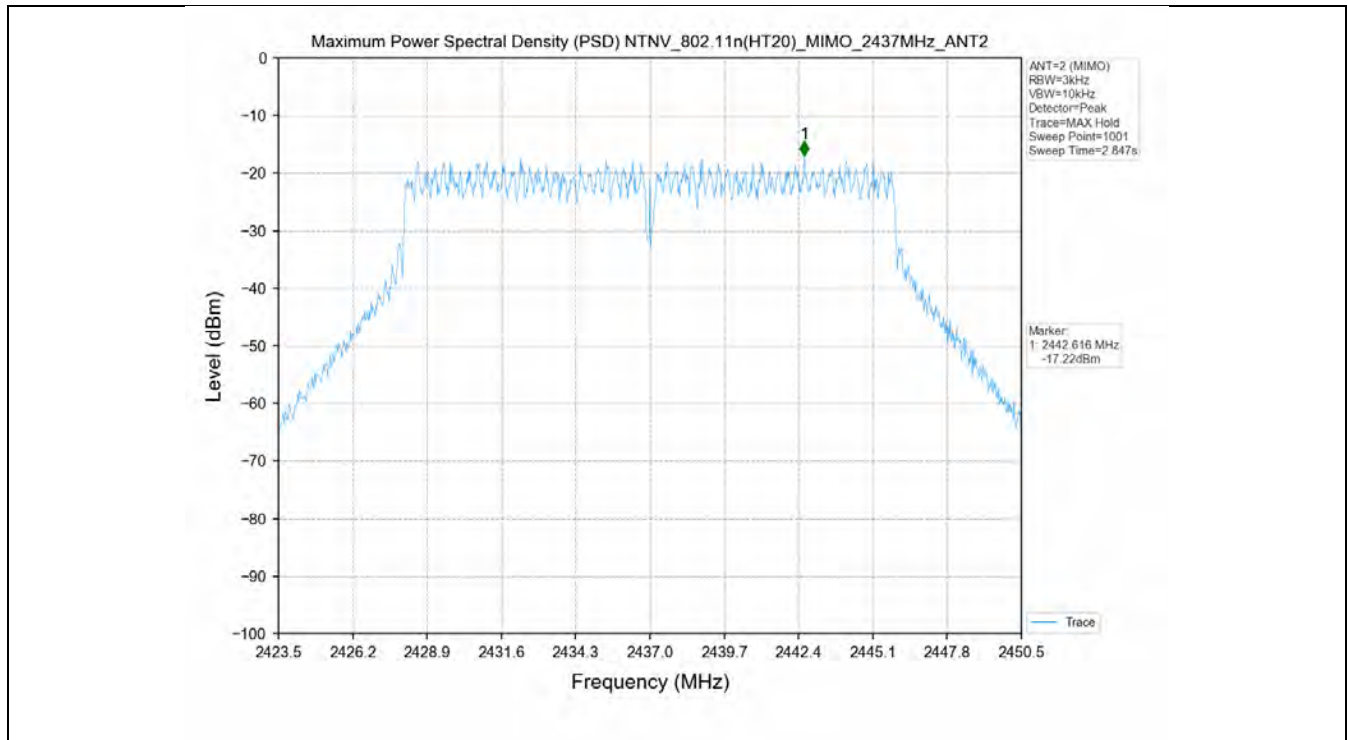


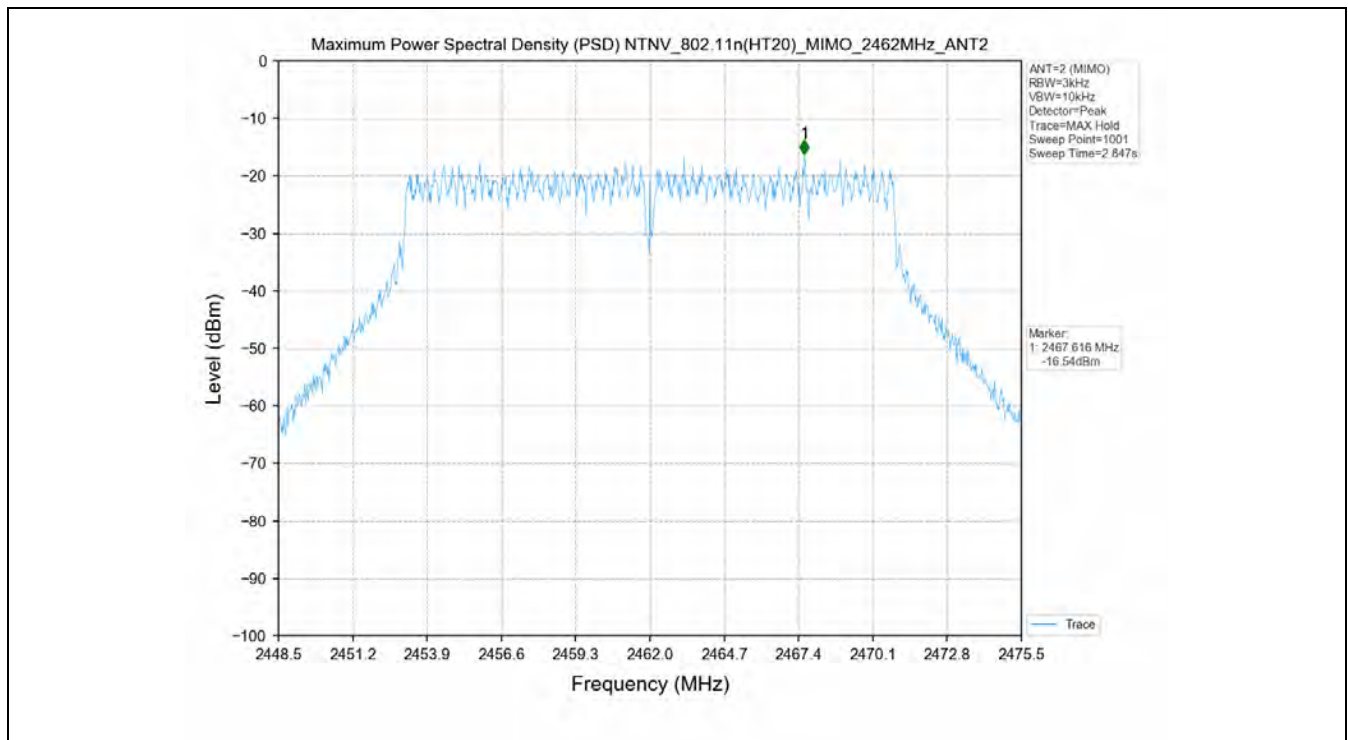
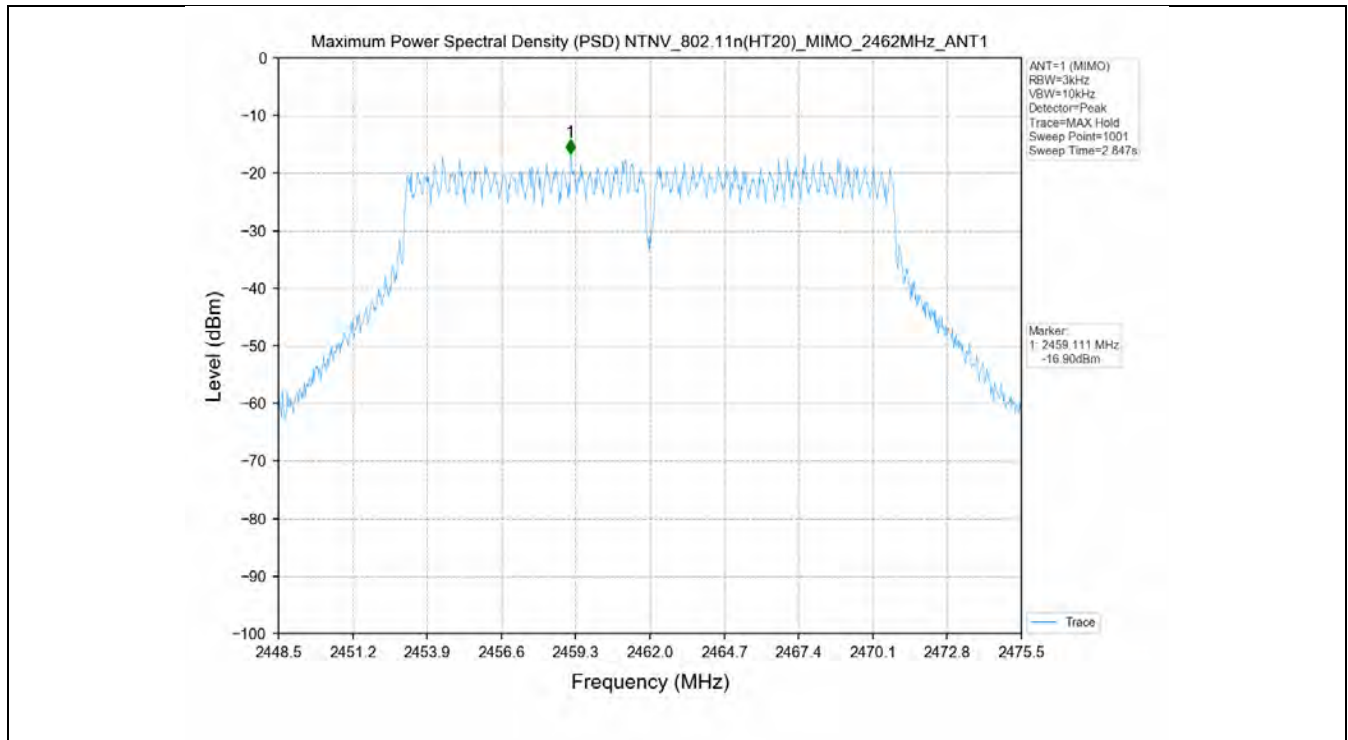


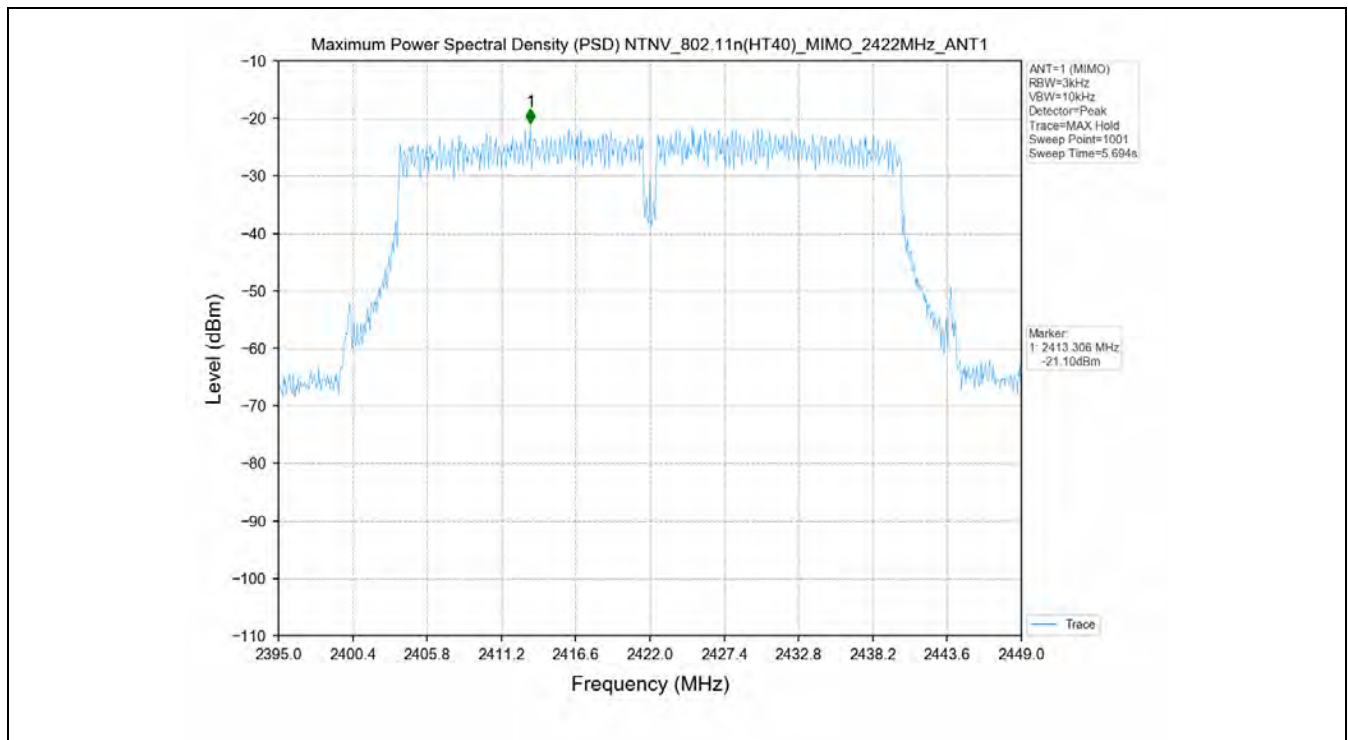
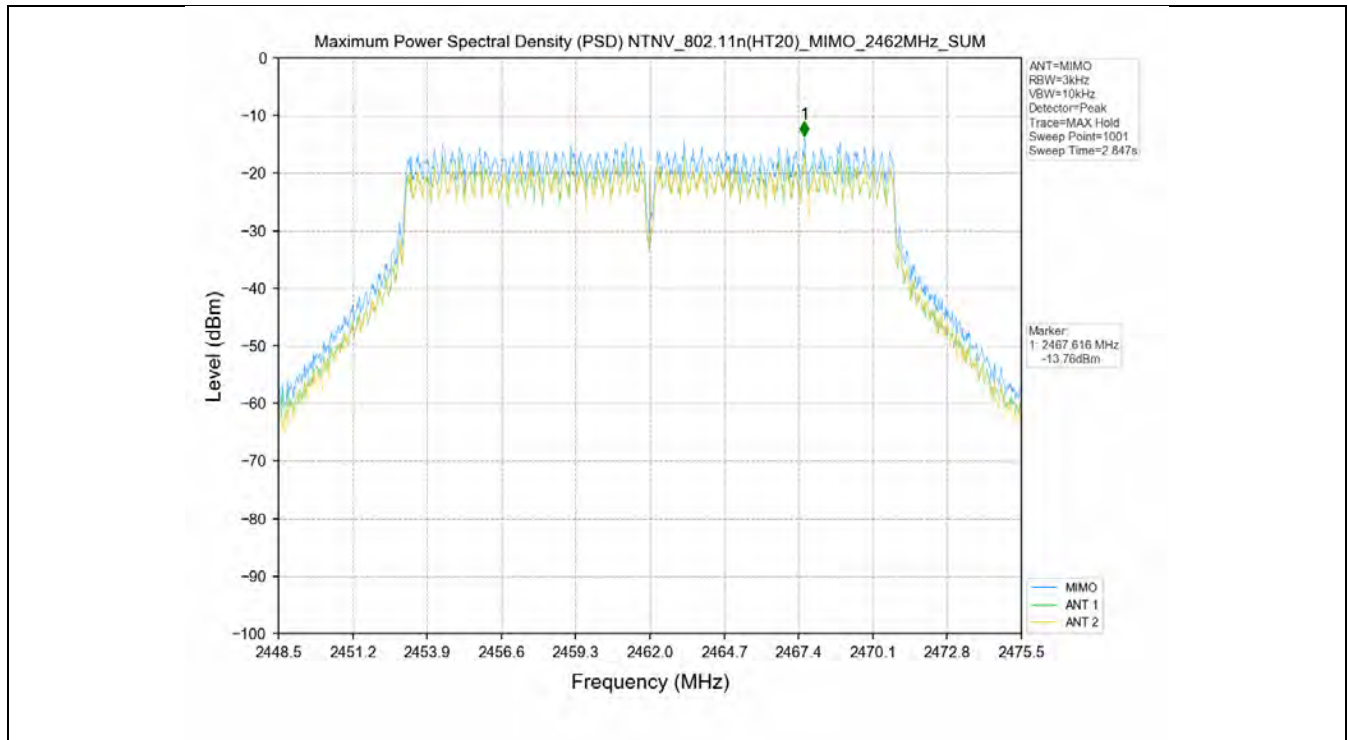


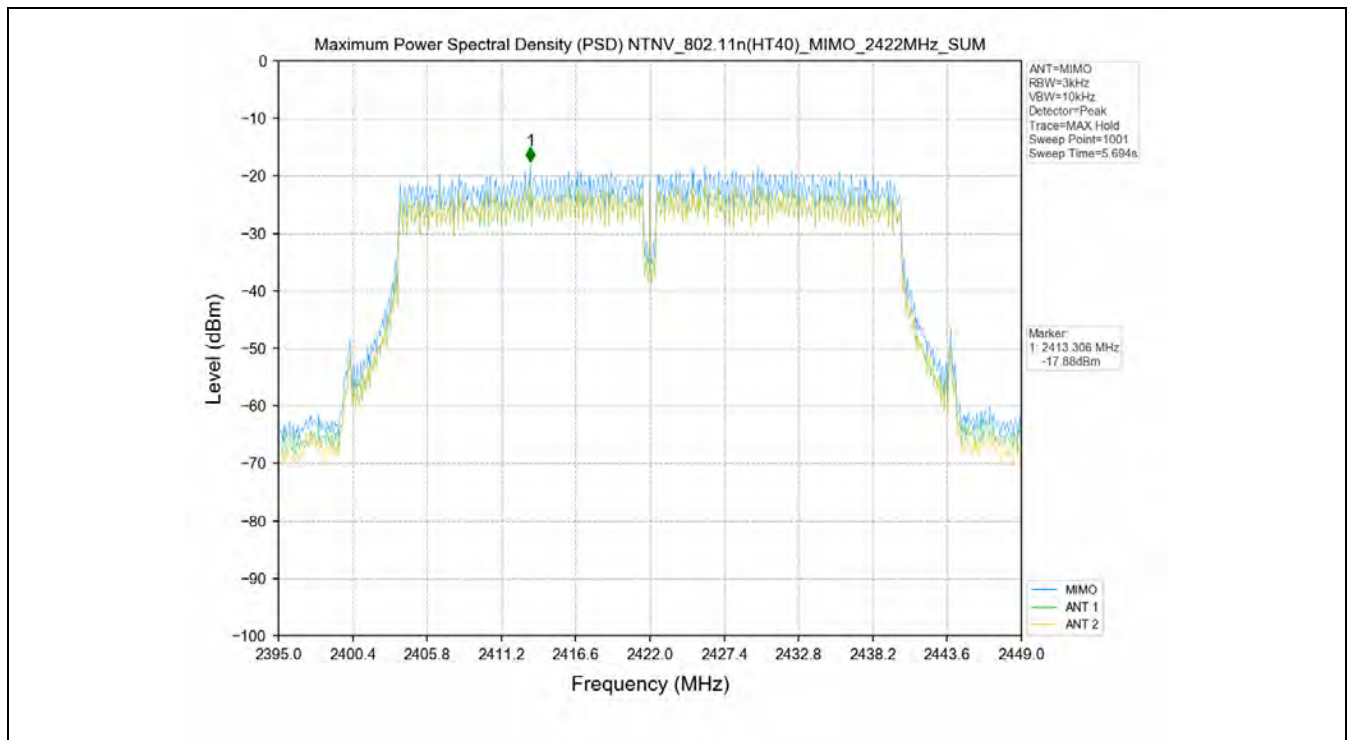
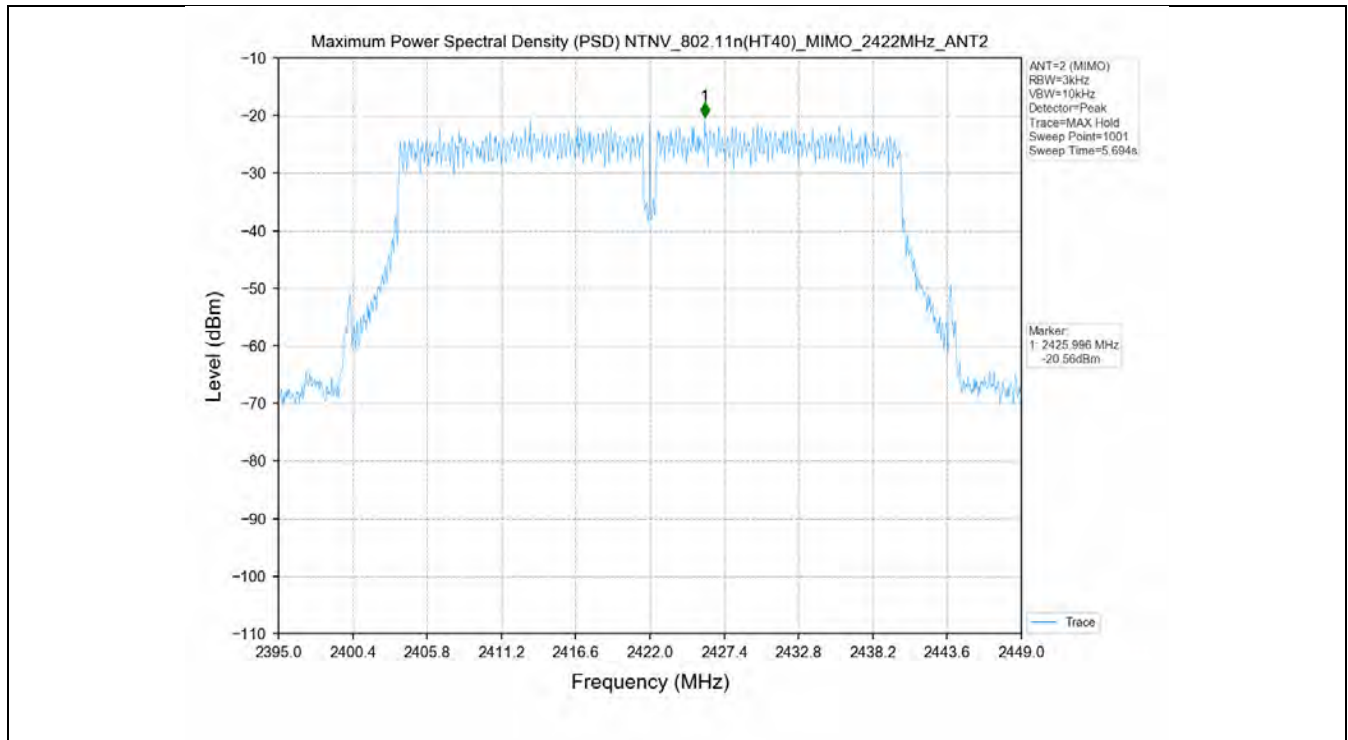


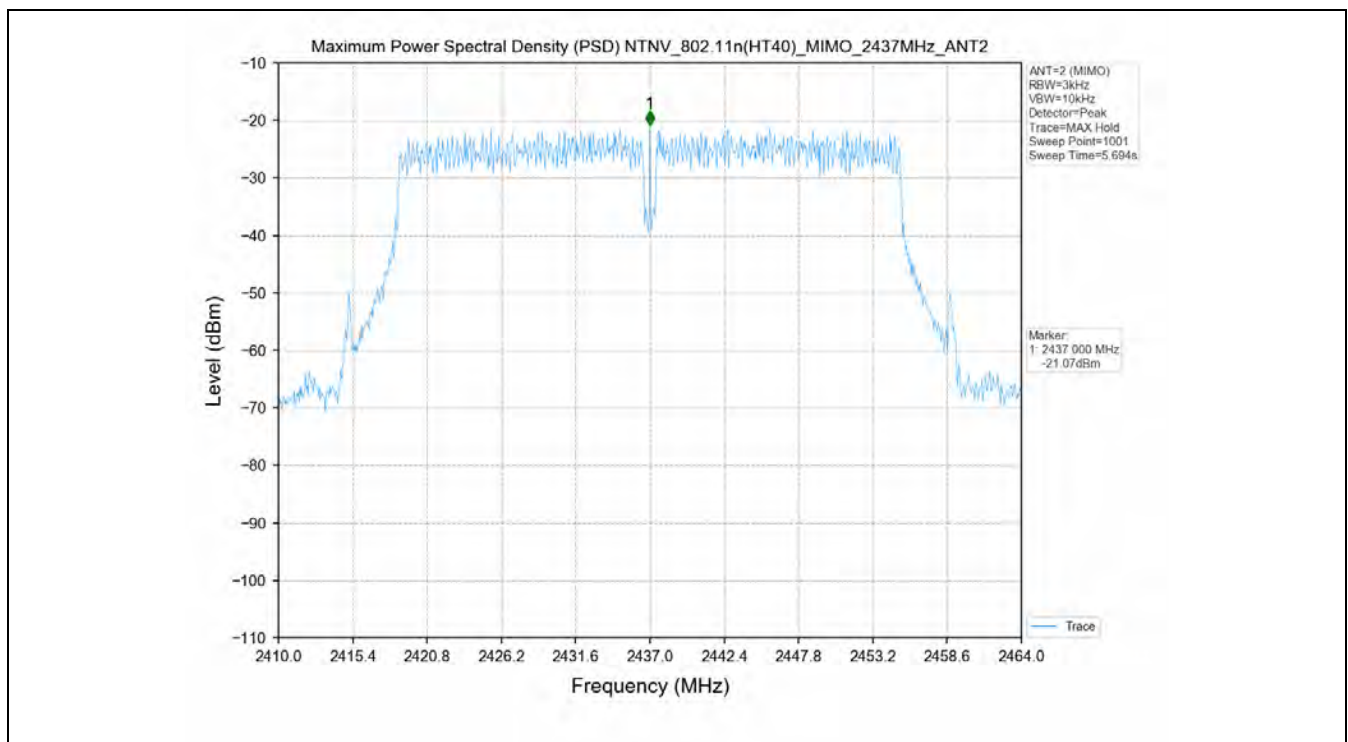
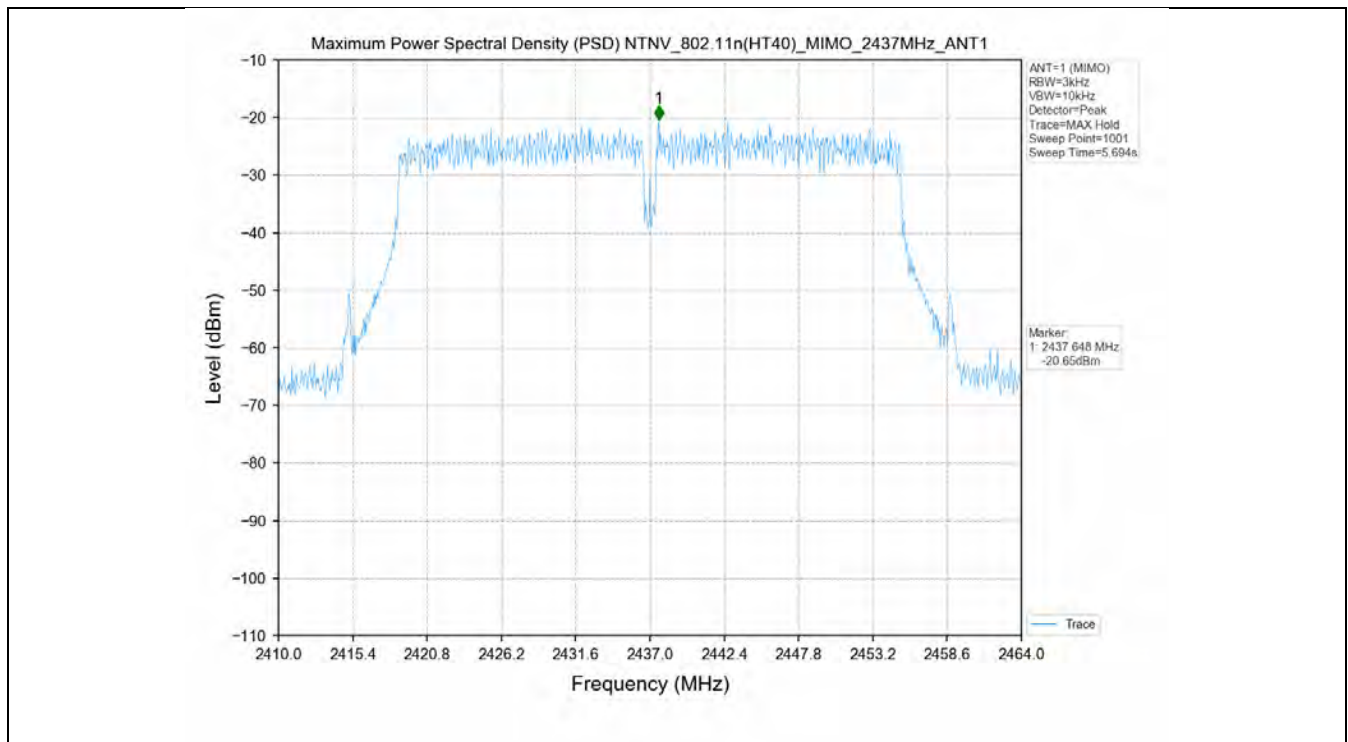


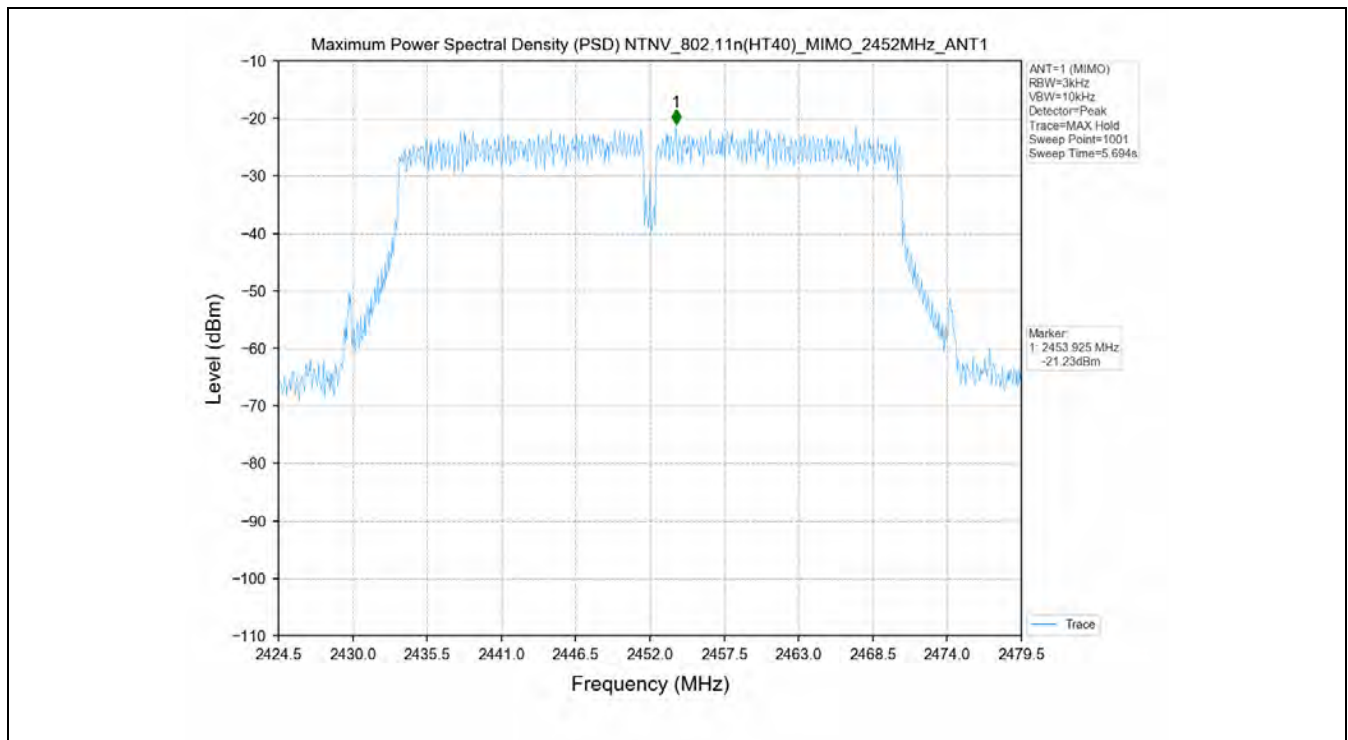
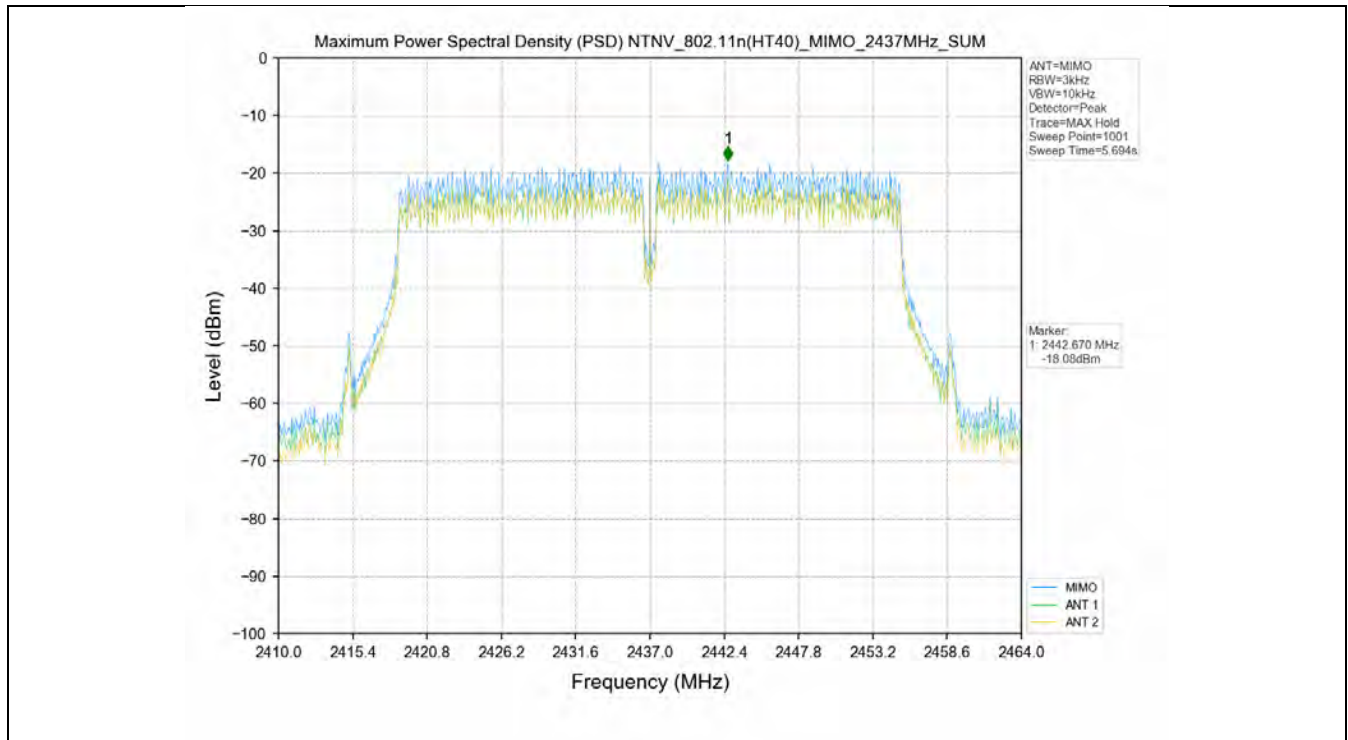


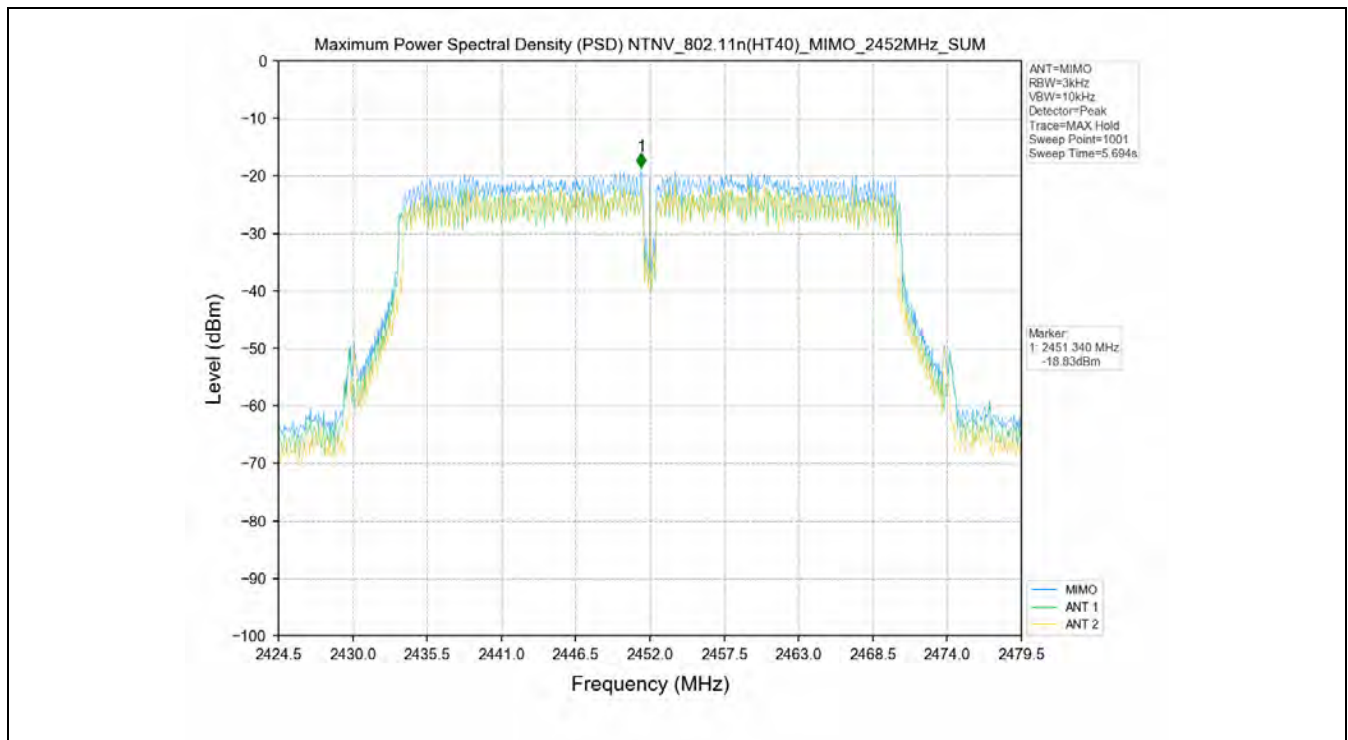
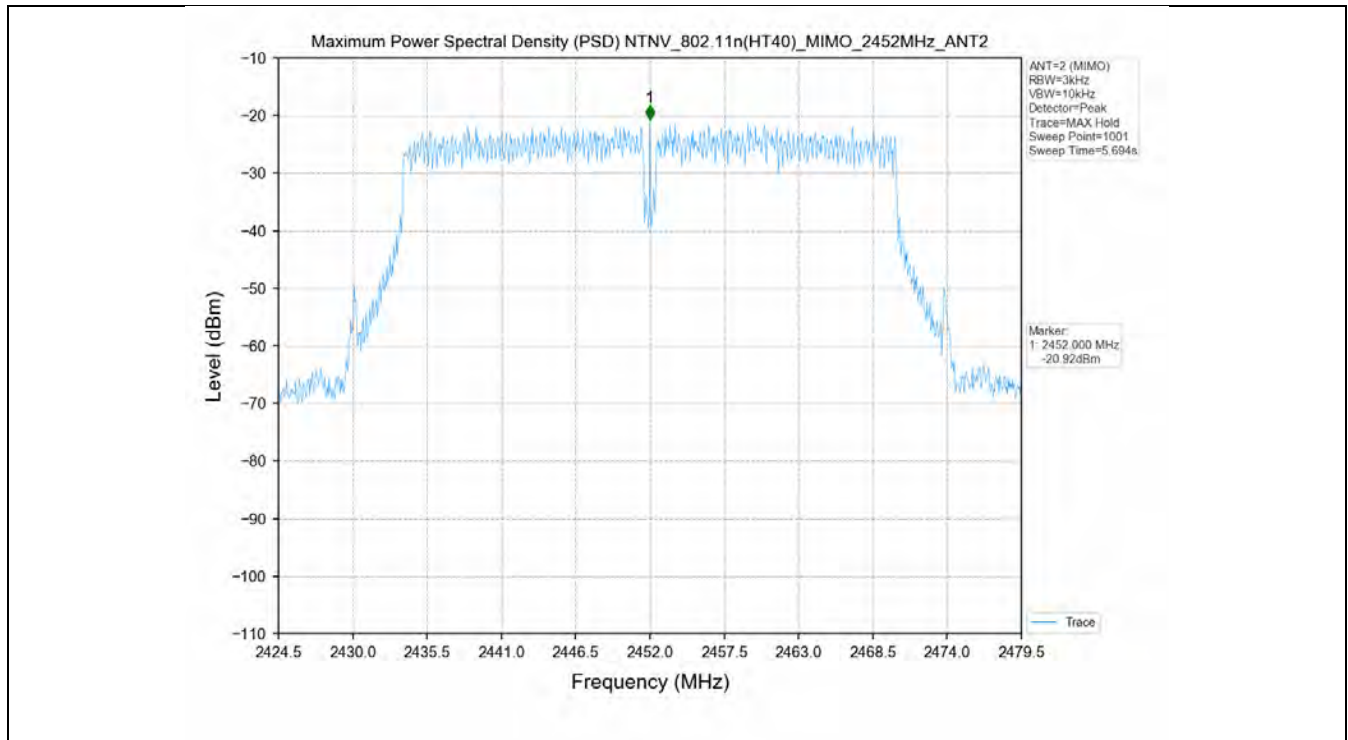














5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBc)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
802.11g	2412	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-20	PASS
	2412	MIMO	2	Refer to test graph	-20	PASS
	2437	MIMO	1	Refer to test graph	-20	PASS
	2437	MIMO	2	Refer to test graph	-20	PASS
	2462	MIMO	1	Refer to test graph	-20	PASS
	2462	MIMO	2	Refer to test graph	-20	PASS
802.11n(HT40)	2422	MIMO	1	Refer to test graph	-20	PASS
	2422	MIMO	2	Refer to test graph	-20	PASS
	2437	MIMO	1	Refer to test graph	-20	PASS
	2437	MIMO	2	Refer to test graph	-20	PASS
	2452	MIMO	1	Refer to test graph	-20	PASS
	2452	MIMO	2	Refer to test graph	-20	PASS

5.2 Test Graph

