



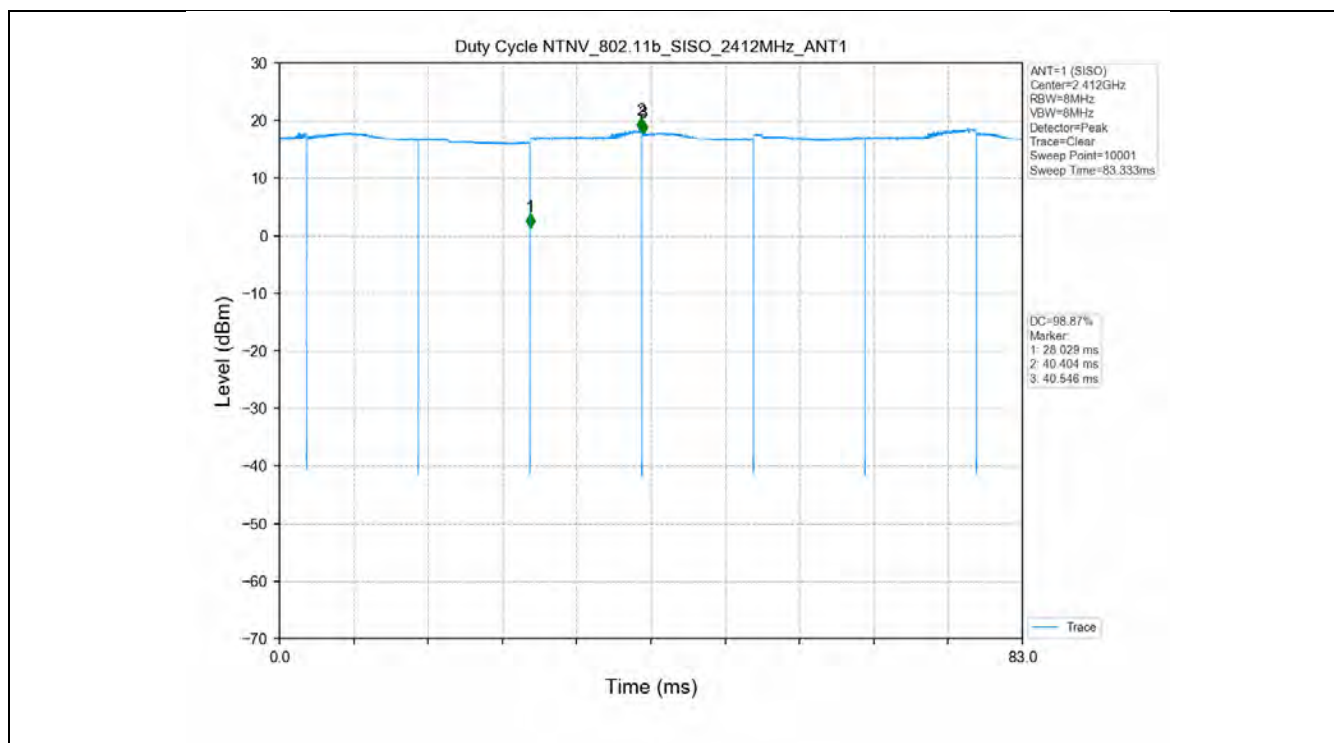
Appendix A for SHEM200600517601

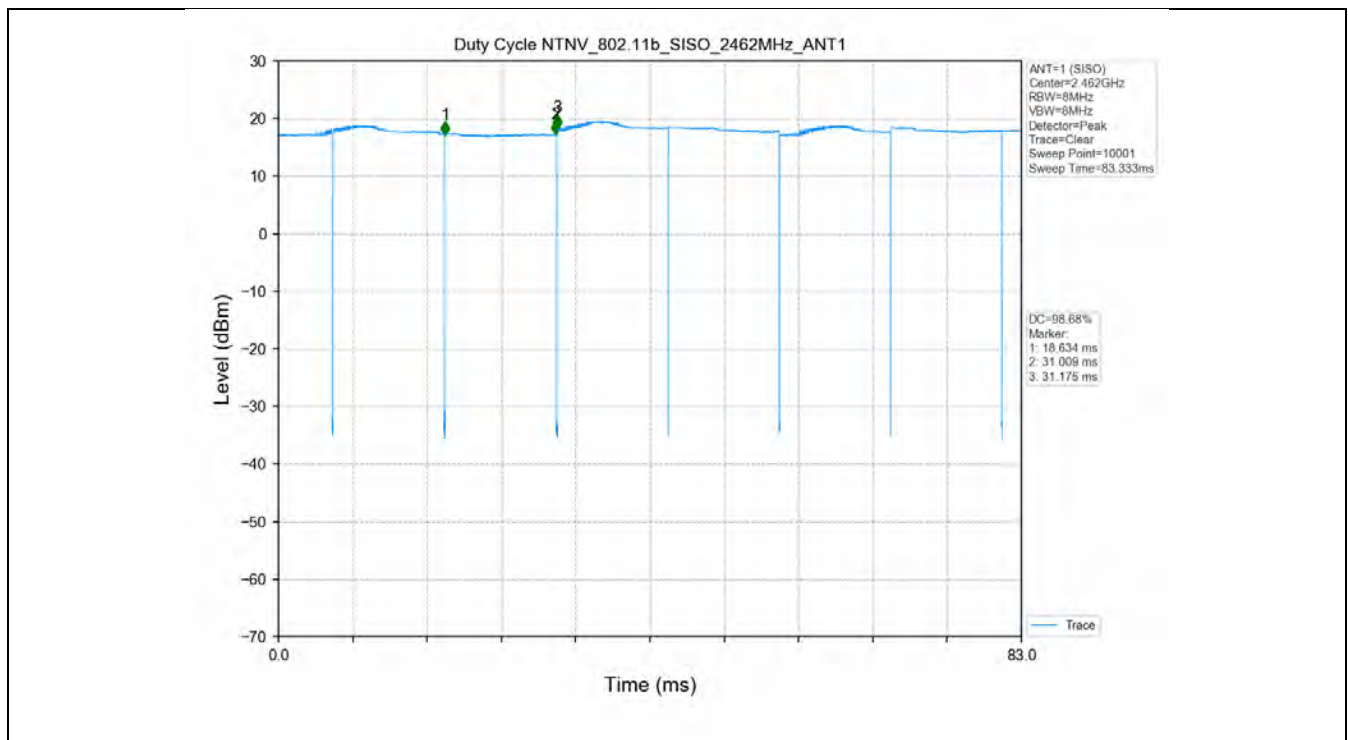
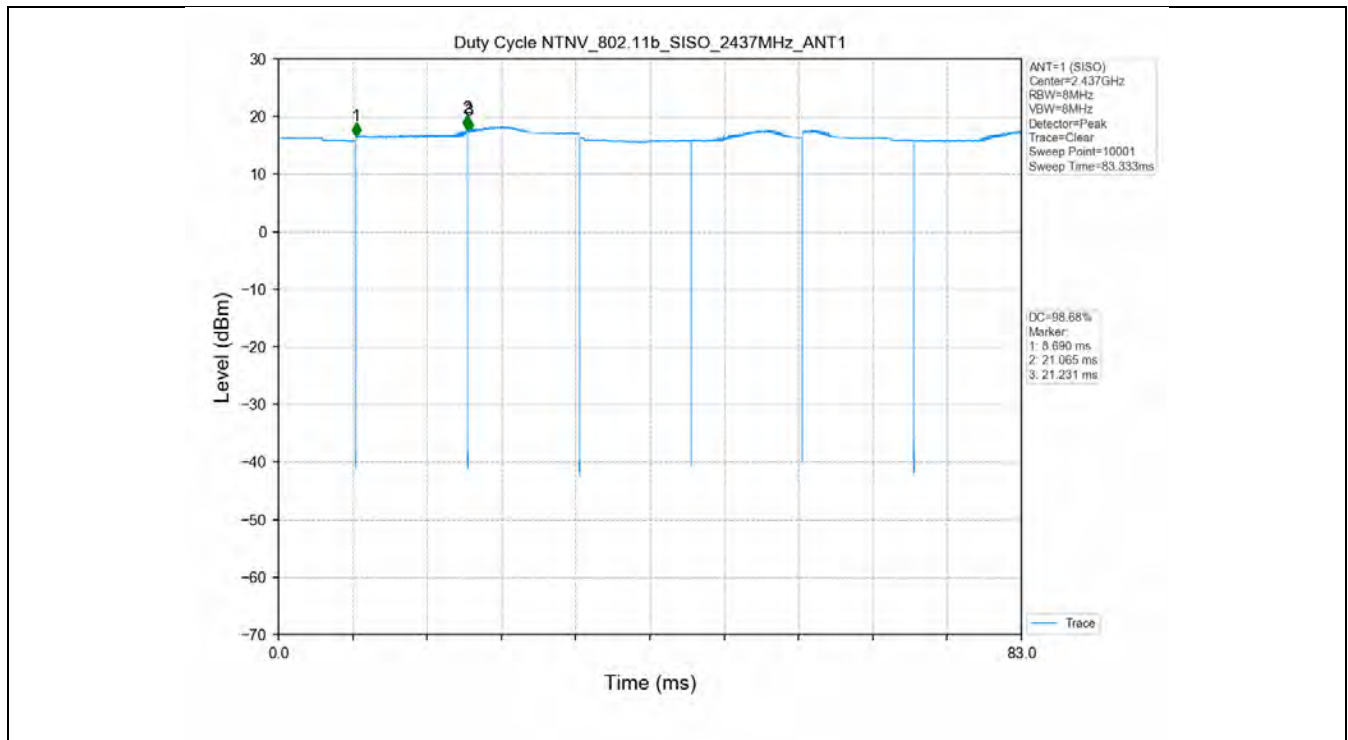
1. Duty Cycle

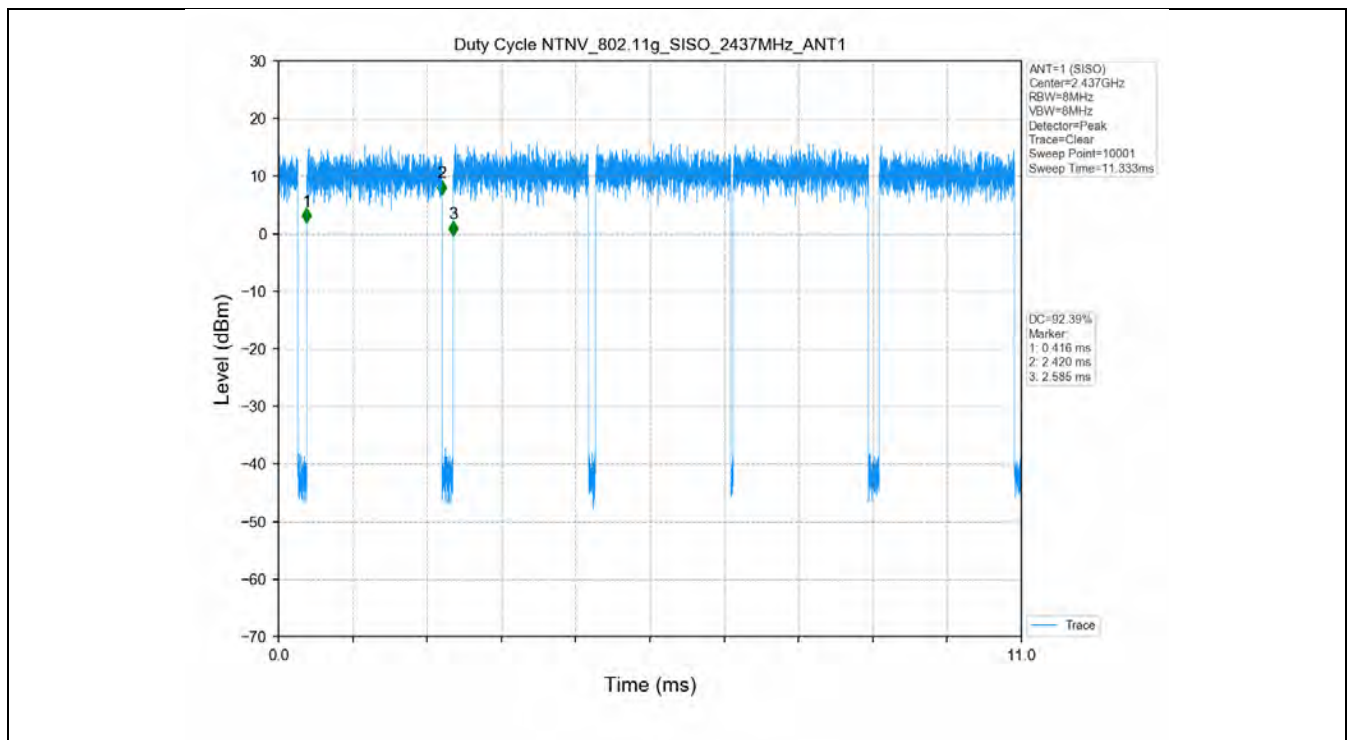
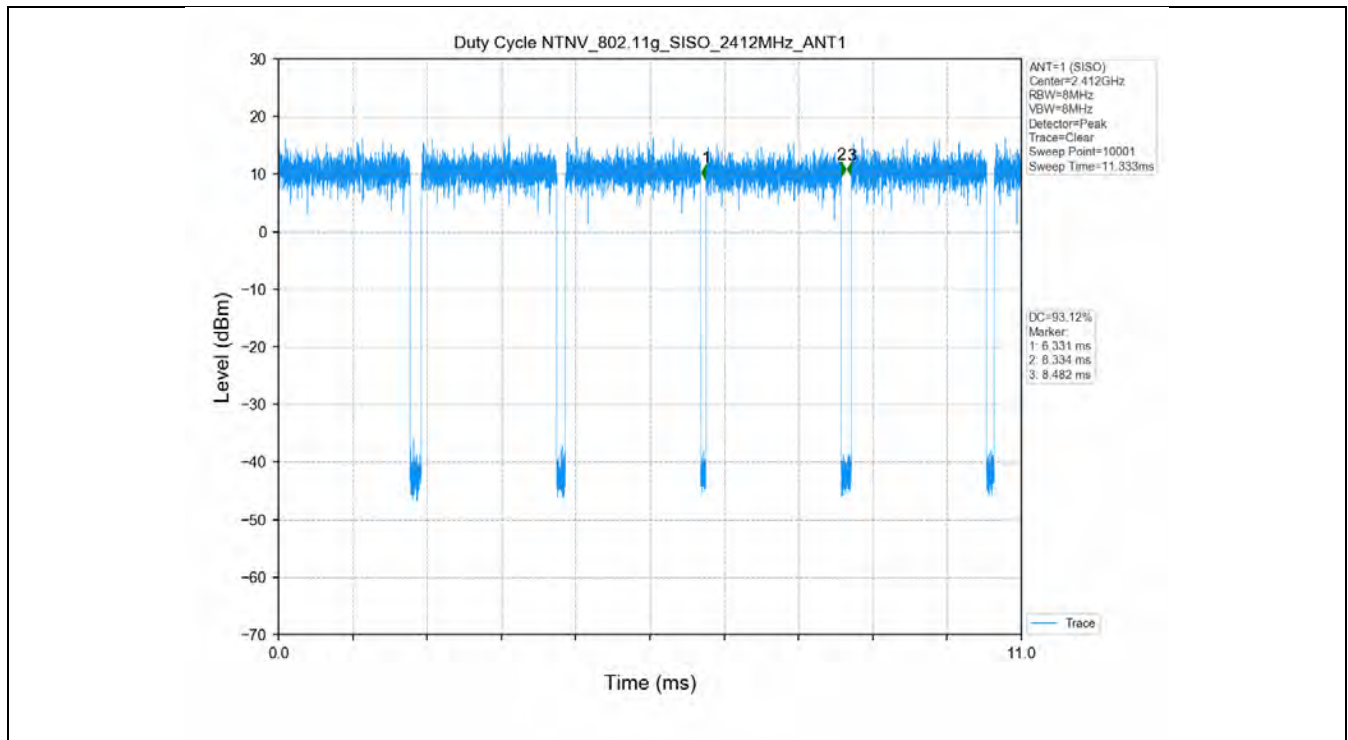
1.1 Test Result

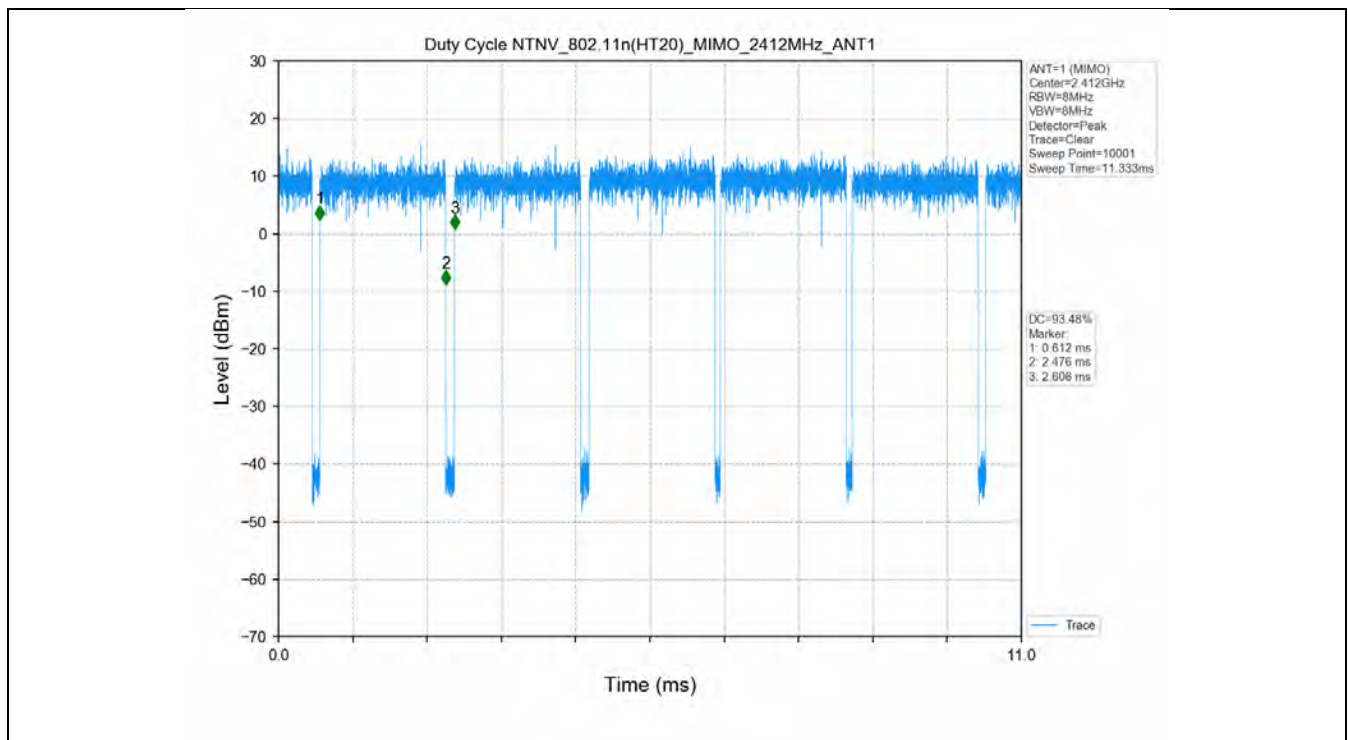
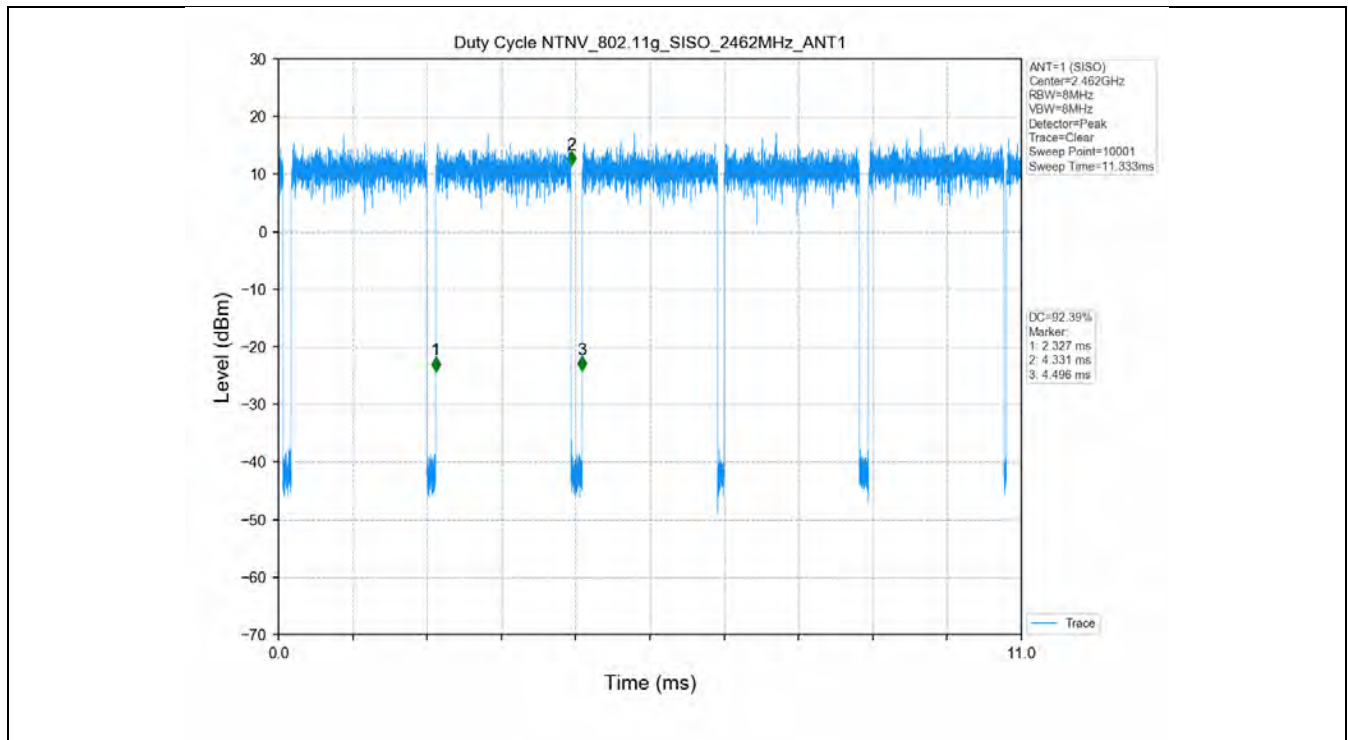
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.375	12.517	98.87	0.05
	2437	SISO	1	12.375	12.541	98.68	0.06
	2462	SISO	1	12.375	12.541	98.68	0.06
802.11g	2412	SISO	1	2.003	2.151	93.12	0.31
	2437	SISO	1	2.004	2.169	92.39	0.34
	2462	SISO	1	2.004	2.169	92.39	0.34
802.11n(HT20)	2412	MIMO	1	1.864	1.994	93.48	0.29
	2437	MIMO	1	1.865	2.004	93.06	0.31
	2462	MIMO	1	1.921	2.046	93.89	0.27
802.11n(HT40)	2422	MIMO	1	0.945	1.062	88.98	0.51
	2437	MIMO	1	0.945	1.061	89.07	0.50
	2452	MIMO	1	0.944	1.052	89.73	0.47

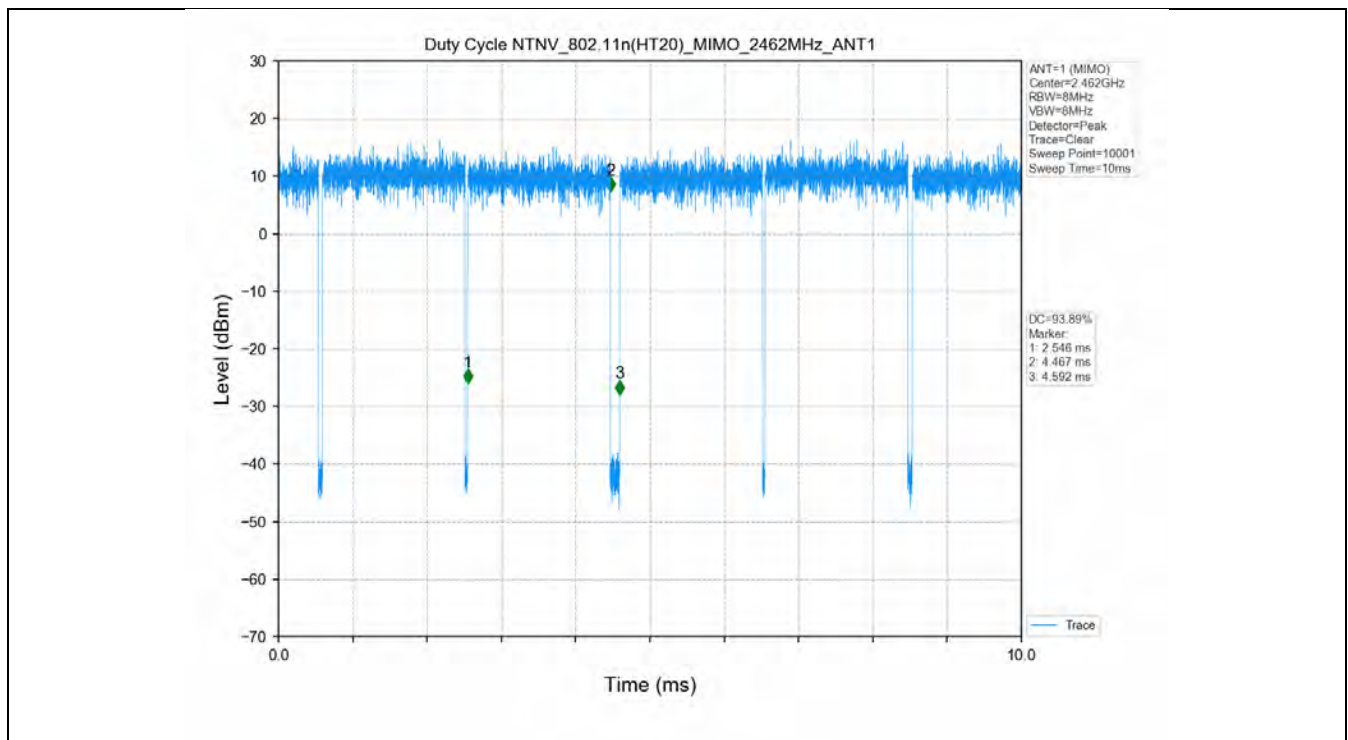
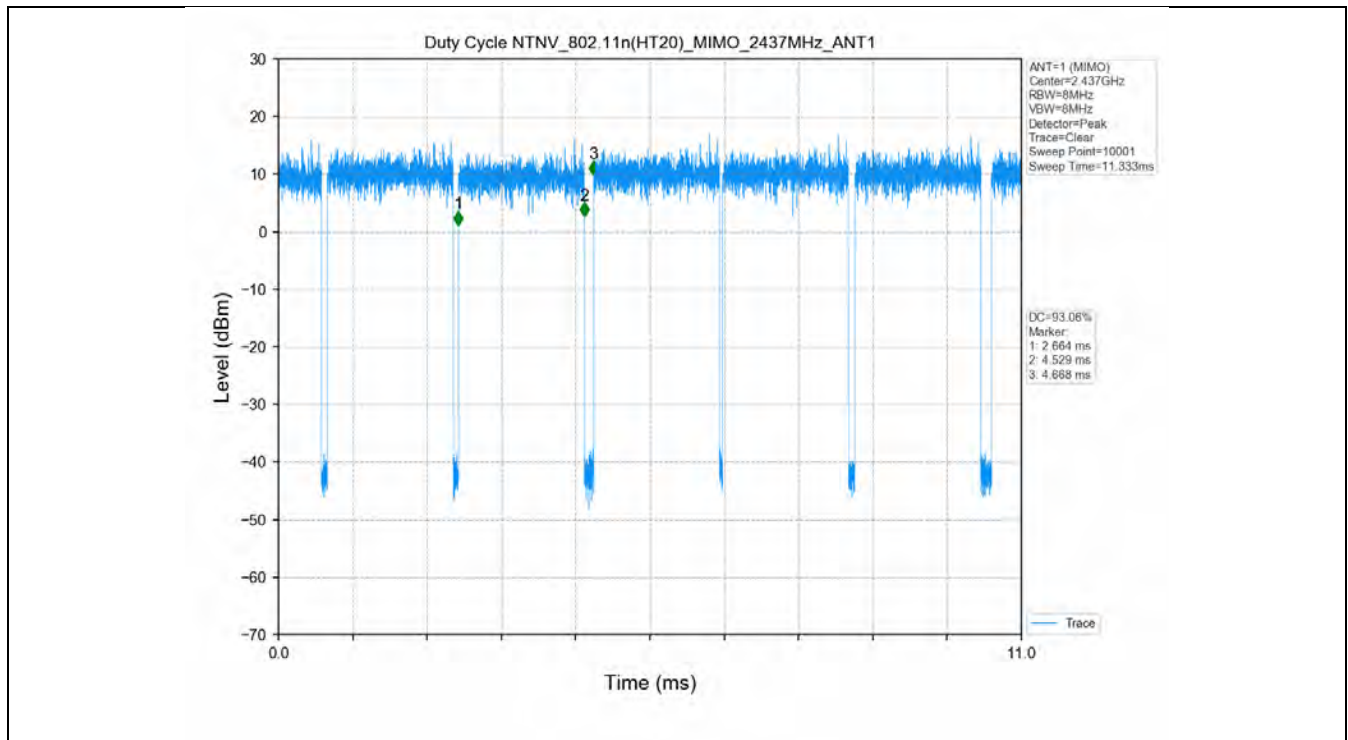
1.2 Test Graph

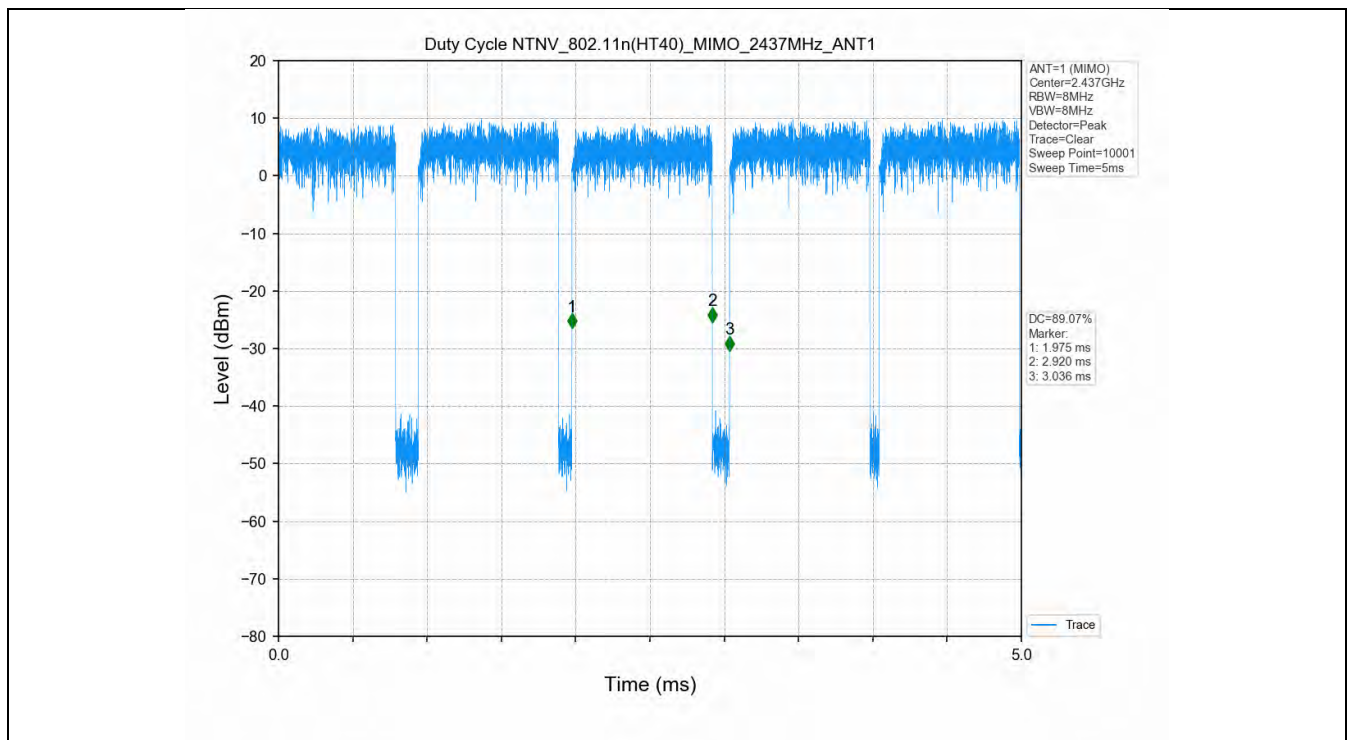
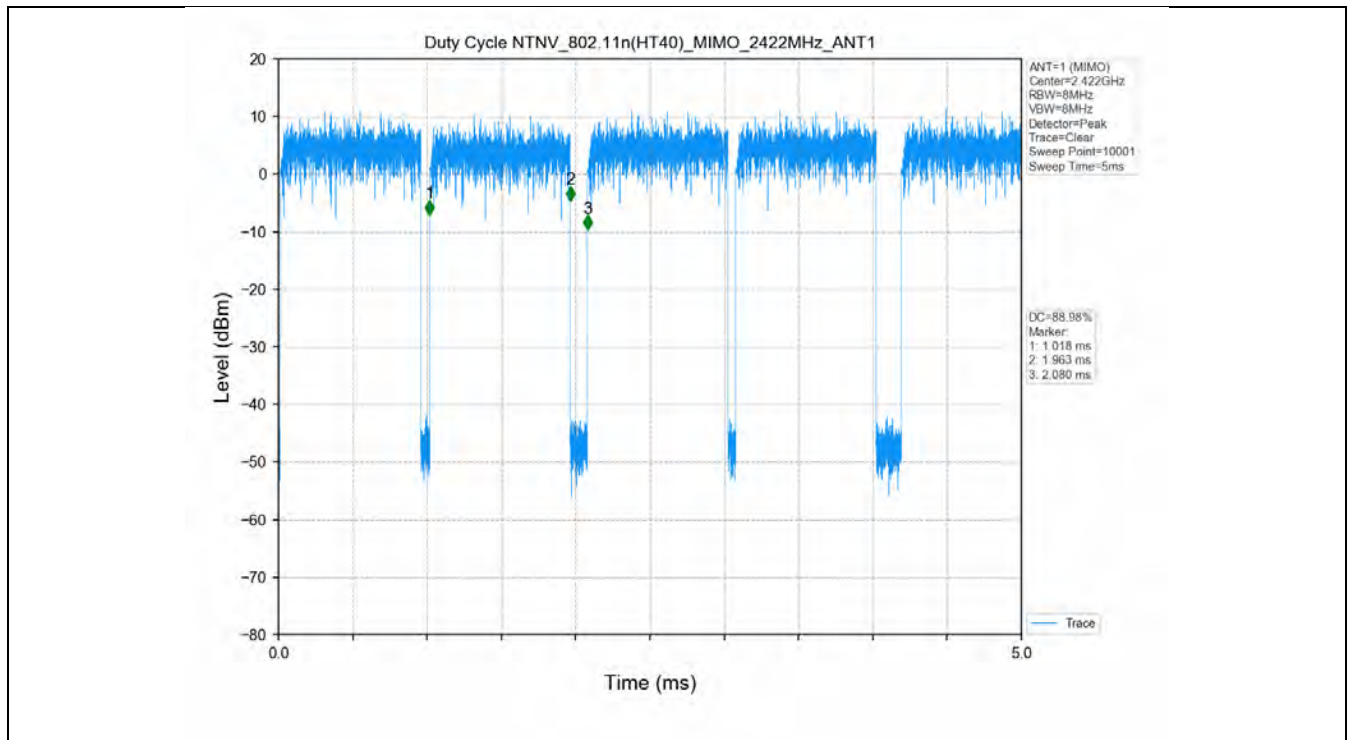


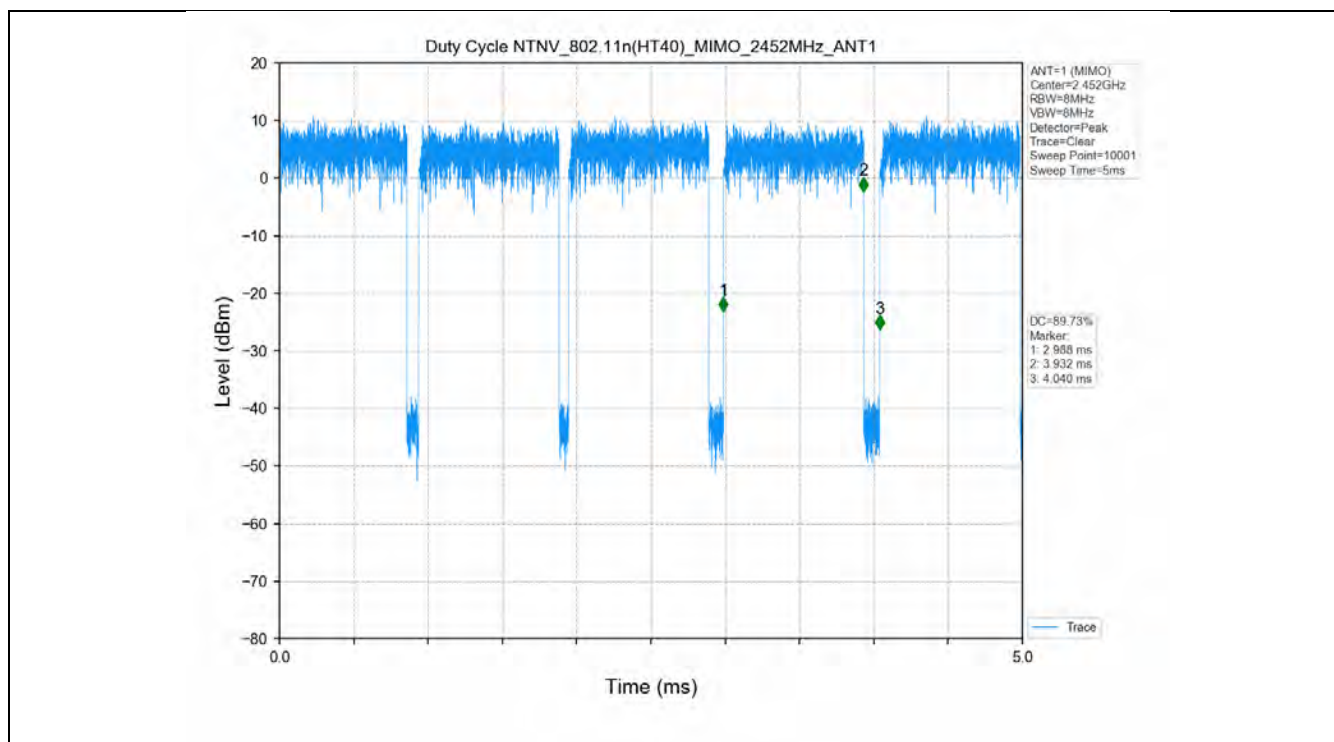












2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	9.600	≥ 0.5	PASS
			2	10.080	≥ 0.5	PASS
	2437	SISO	1	9.627	≥ 0.5	PASS
			2	9.595	≥ 0.5	PASS
	2462	SISO	1	10.058	≥ 0.5	PASS
			2	10.080	≥ 0.5	PASS
802.11g	2412	SISO	1	16.411	≥ 0.5	PASS
			2	16.416	≥ 0.5	PASS
	2437	SISO	1	16.418	≥ 0.5	PASS
			2	16.414	≥ 0.5	PASS
	2462	SISO	1	16.414	≥ 0.5	PASS
			2	16.420	≥ 0.5	PASS
802.11n(HT20)	2412	MIMO	1	17.634	≥ 0.5	PASS
			2	17.640	≥ 0.5	PASS
	2437	MIMO	1	17.603	≥ 0.5	PASS
			2	17.614	≥ 0.5	PASS
	2462	MIMO	1	17.648	≥ 0.5	PASS
			2	17.633	≥ 0.5	PASS
802.11n(HT40)	2422	MIMO	1	35.743	≥ 0.5	PASS
			2	35.854	≥ 0.5	PASS
	2437	MIMO	1	35.760	≥ 0.5	PASS

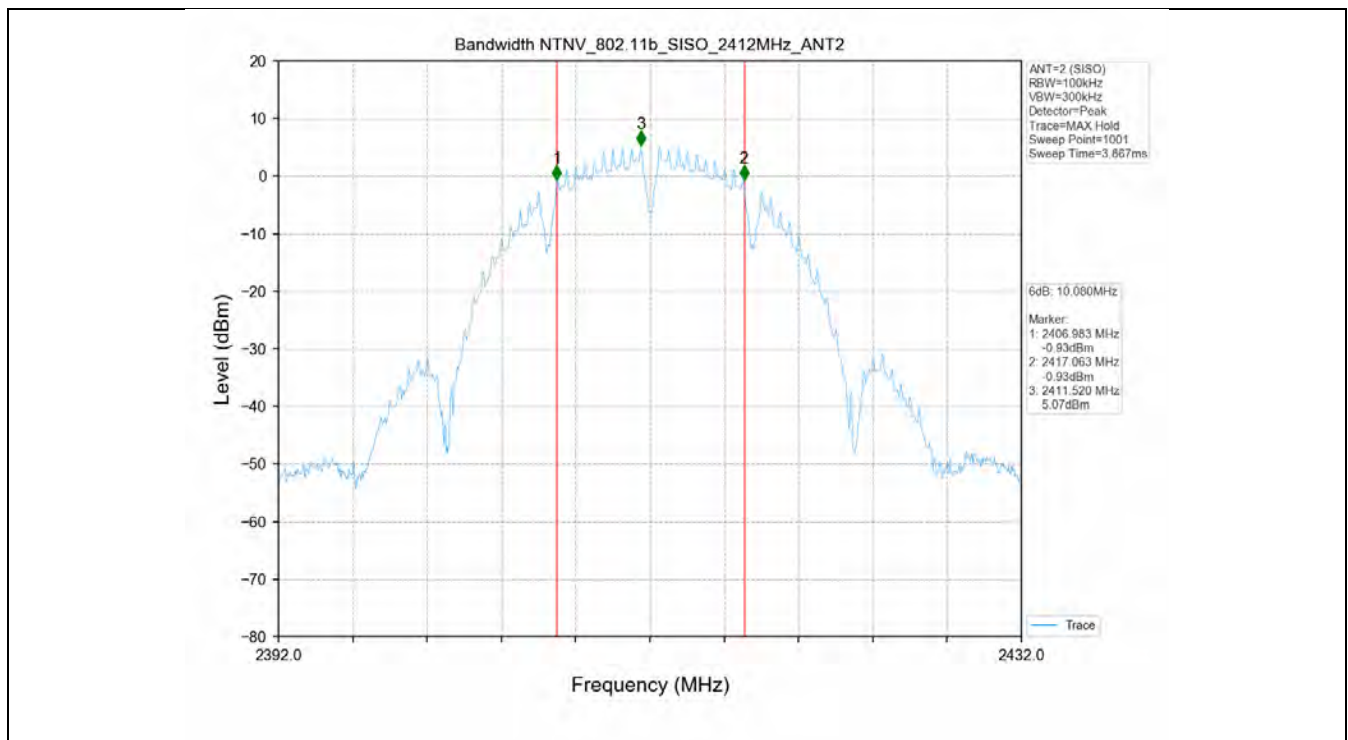
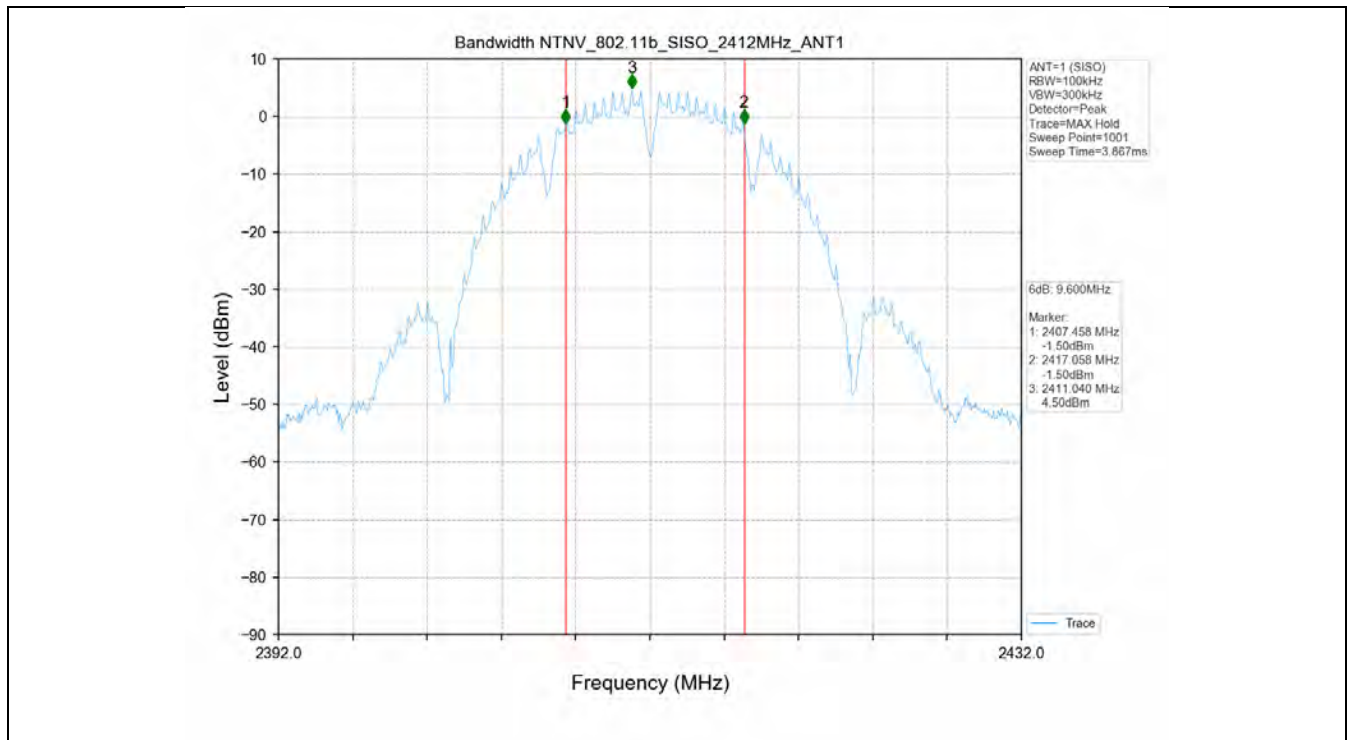


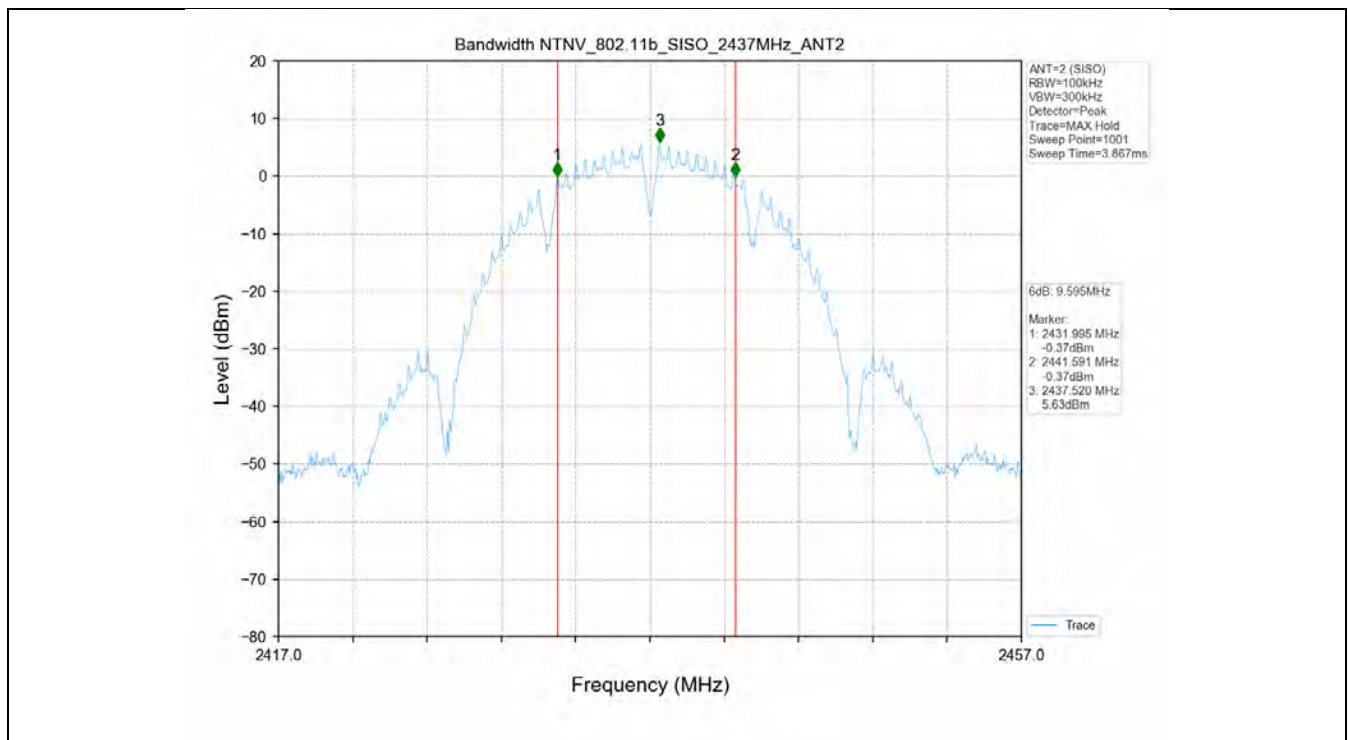
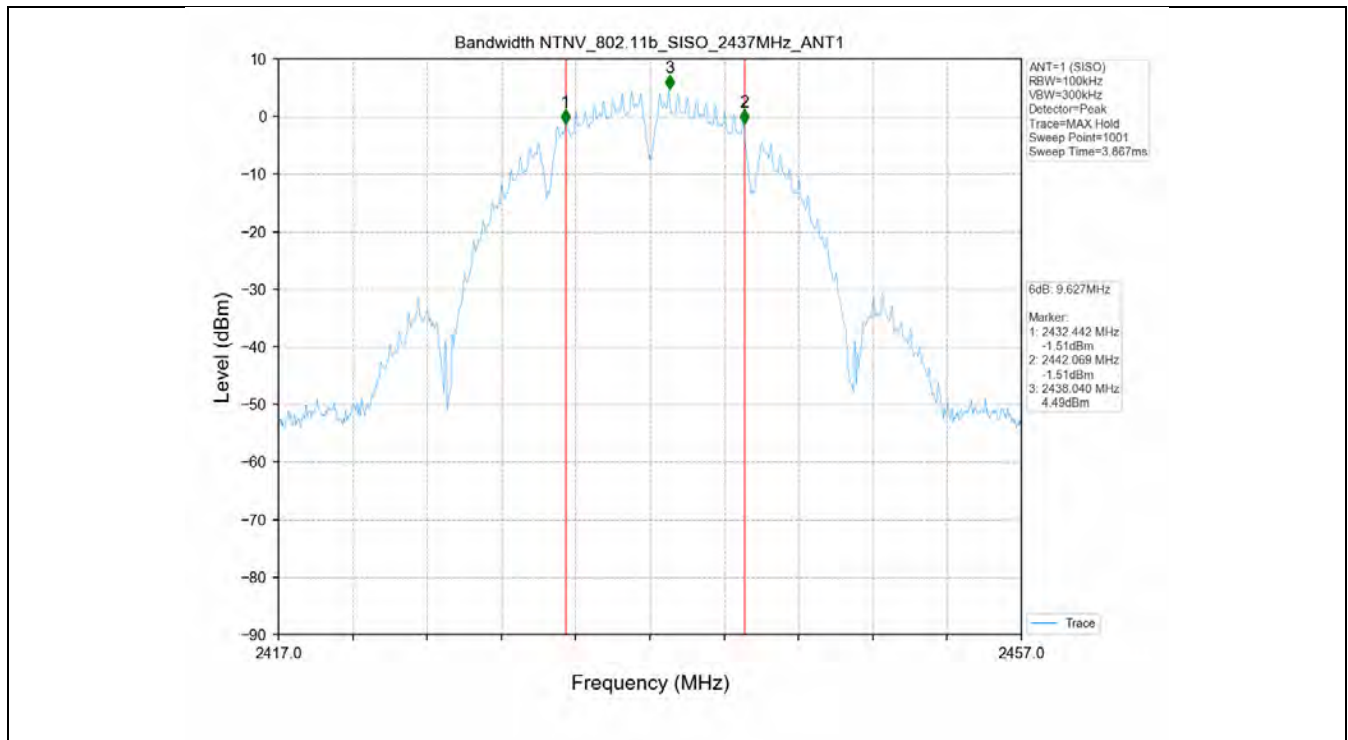
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

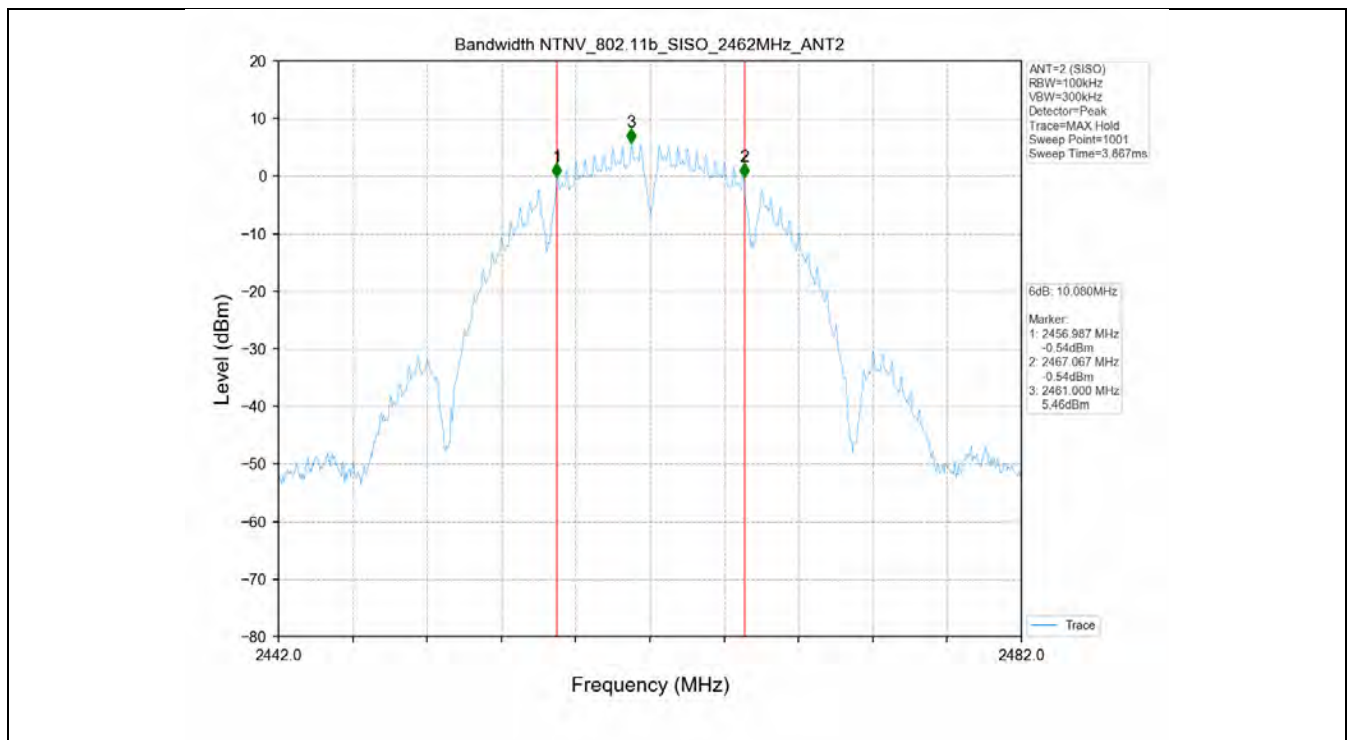
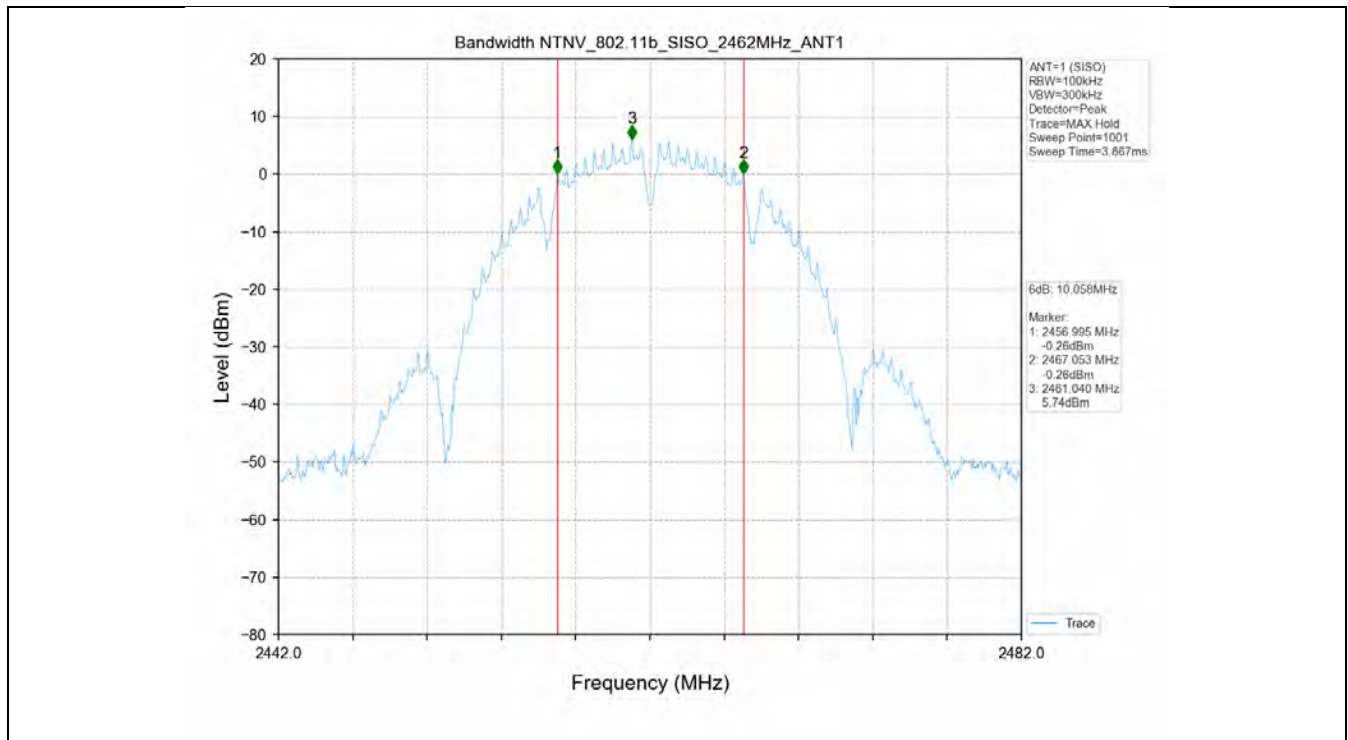
			2	35.533	≥ 0.5	PASS
	2452	MIMO	1	35.985	≥ 0.5	PASS
			2	35.720	≥ 0.5	PASS

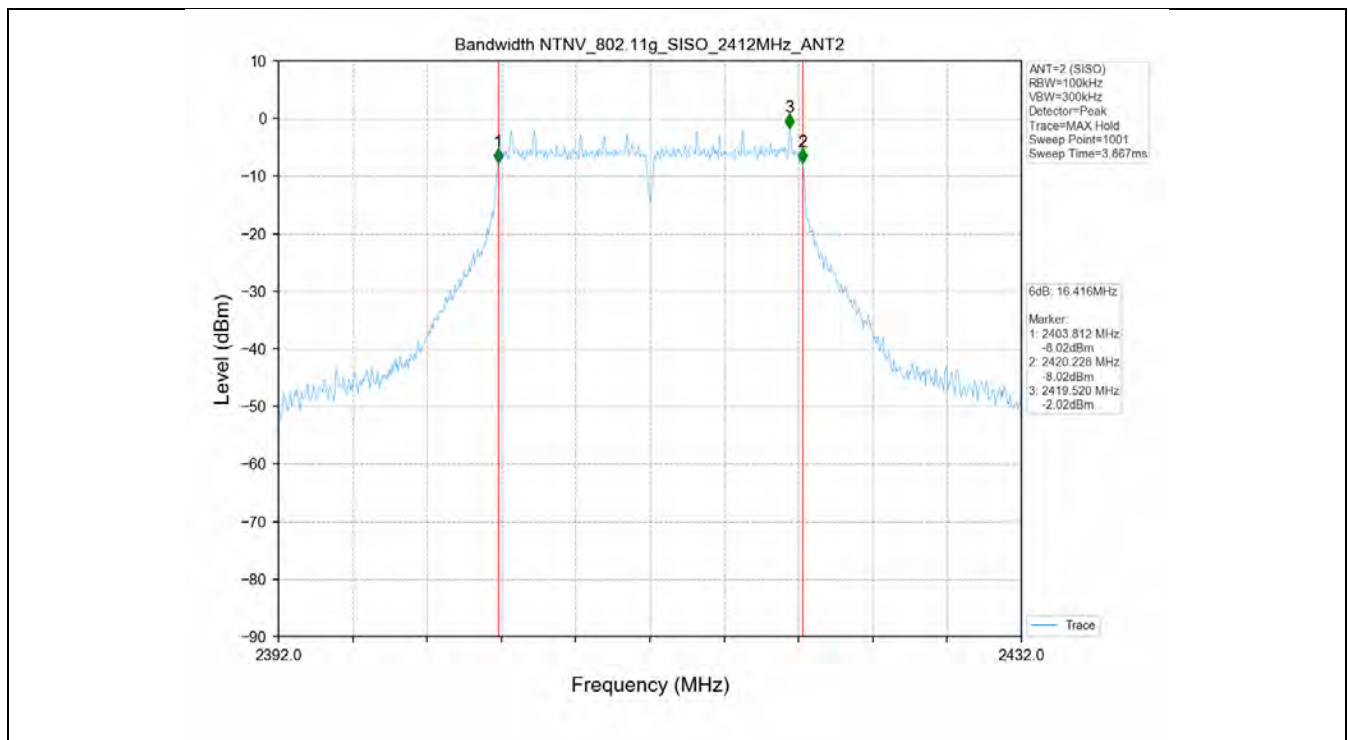
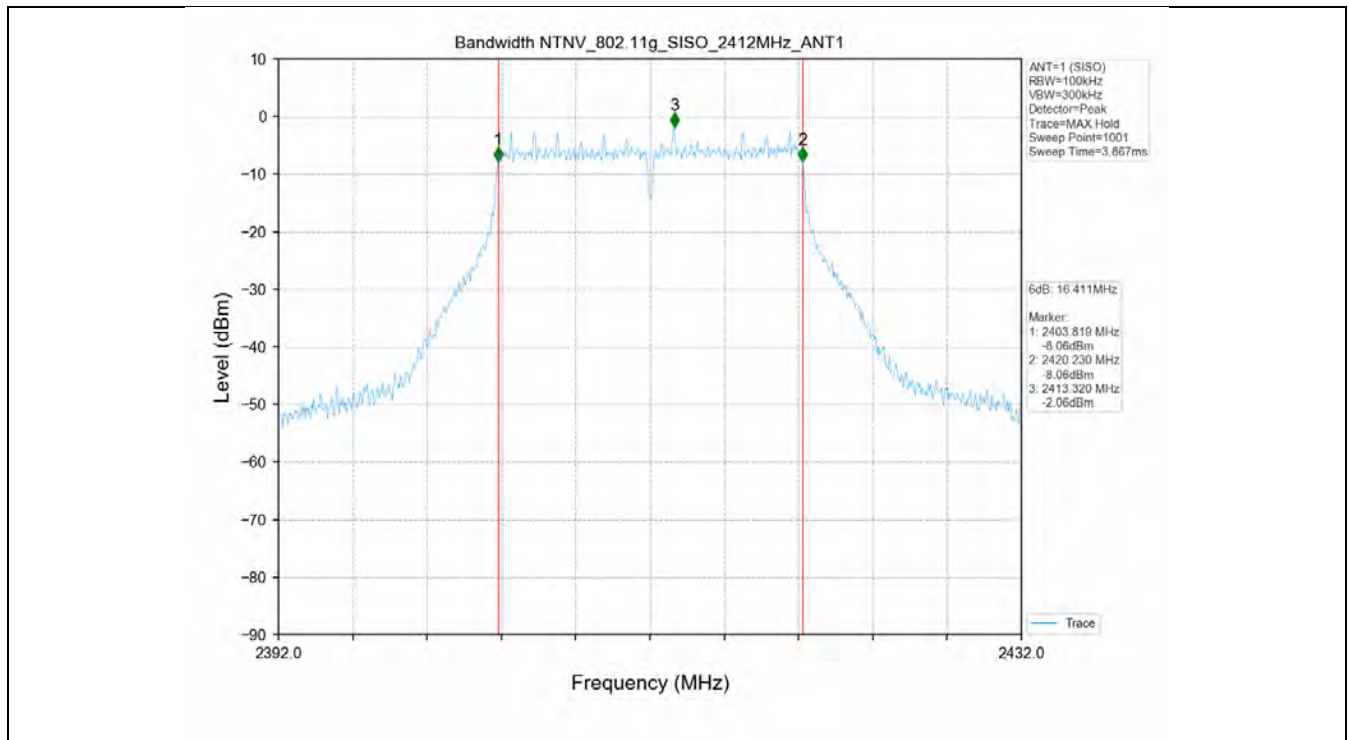
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.082	Only for Report Use
			2	15.068	Only for Report Use
	2437	SISO	1	15.096	Only for Report Use
			2	15.075	Only for Report Use
	2462	SISO	1	15.084	Only for Report Use
			2	15.067	Only for Report Use
802.11g	2412	SISO	1	16.902	Only for Report Use
			2	16.919	Only for Report Use
	2437	SISO	1	16.955	Only for Report Use
			2	16.997	Only for Report Use
	2462	SISO	1	16.973	Only for Report Use
			2	16.981	Only for Report Use
802.11n(HT20)	2412	MIMO	1	18.046	Only for Report Use
			2	18.060	Only for Report Use
	2437	MIMO	1	18.130	Only for Report Use
			2	18.175	Only for Report Use
	2462	MIMO	1	18.000	Only for Report Use
			2	18.046	Only for Report Use
802.11n(HT40)	2422	MIMO	1	36.688	Only for Report Use
			2	36.693	Only for Report Use
	2437	MIMO	1	36.519	Only for Report Use
			2	36.473	Only for Report Use
	2452	MIMO	1	36.683	Only for Report Use
			2	36.612	Only for Report Use

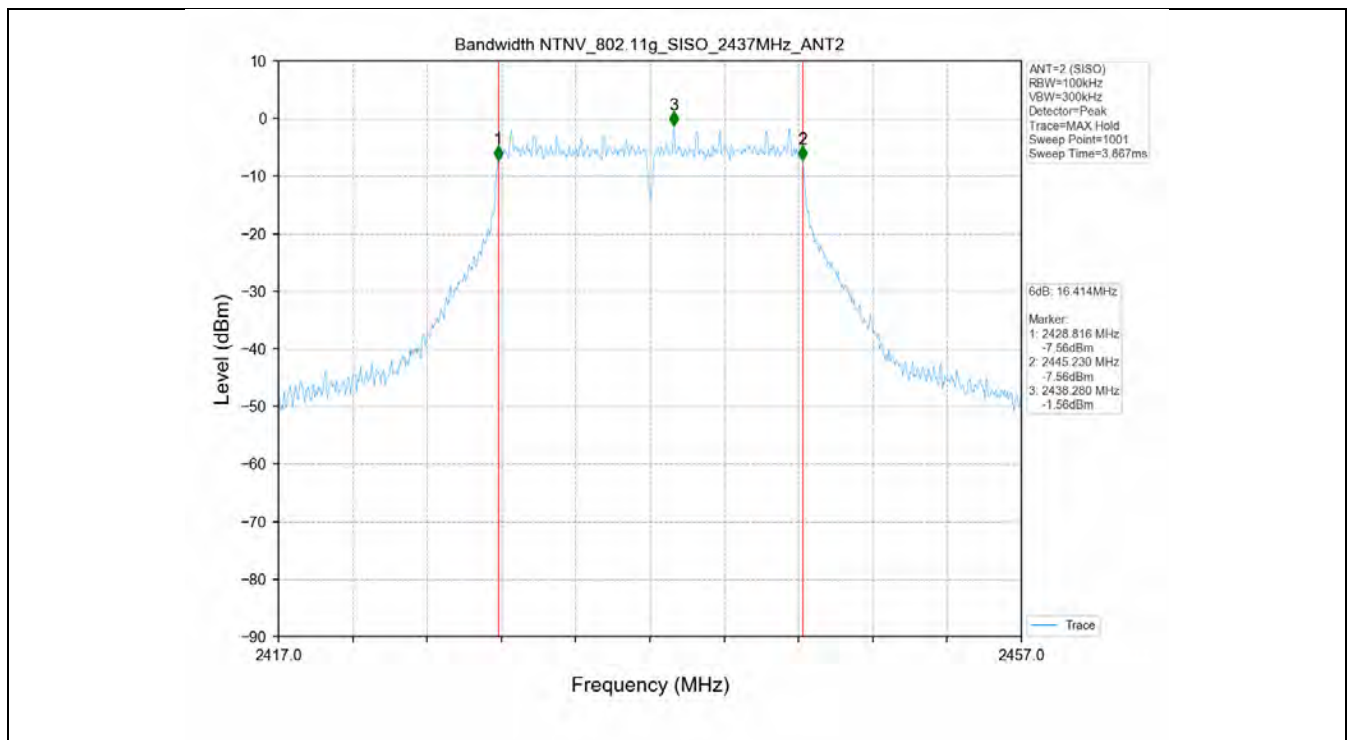
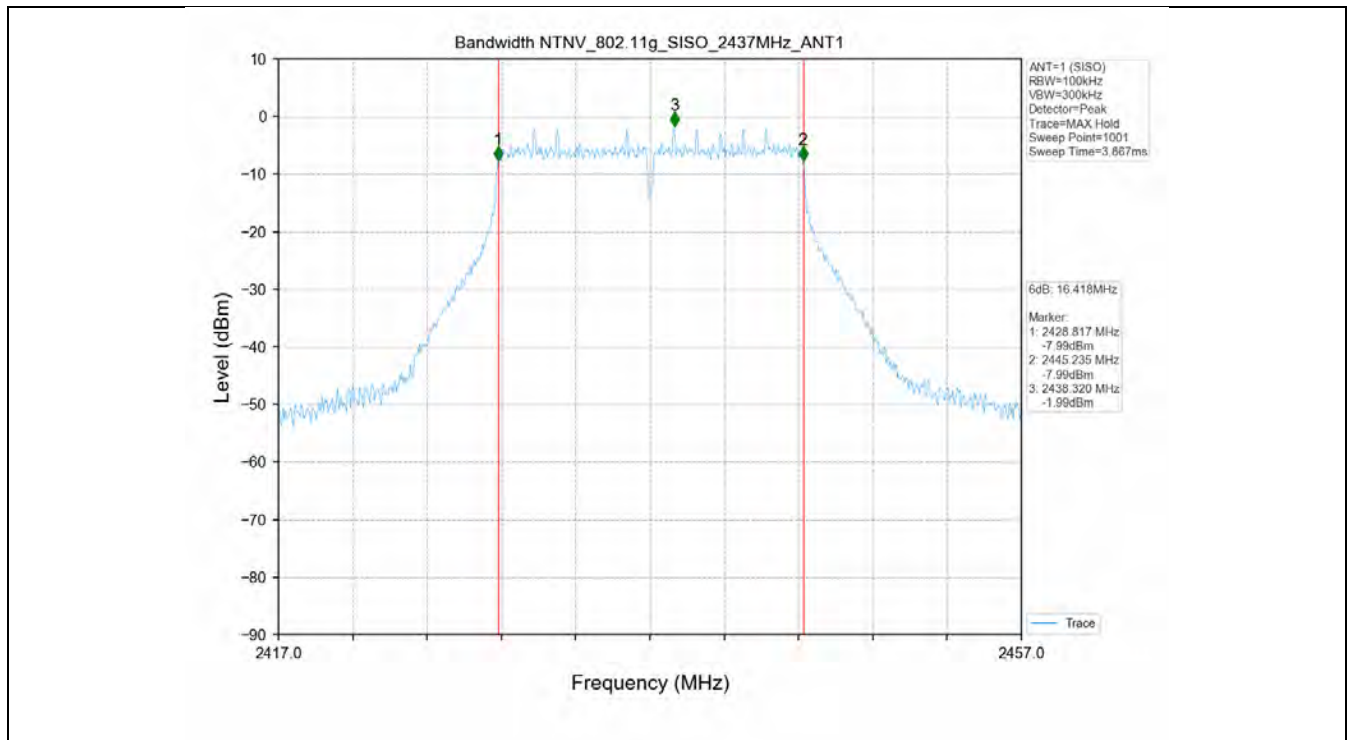
2.2 Test Graph - 6dB Bandwidth

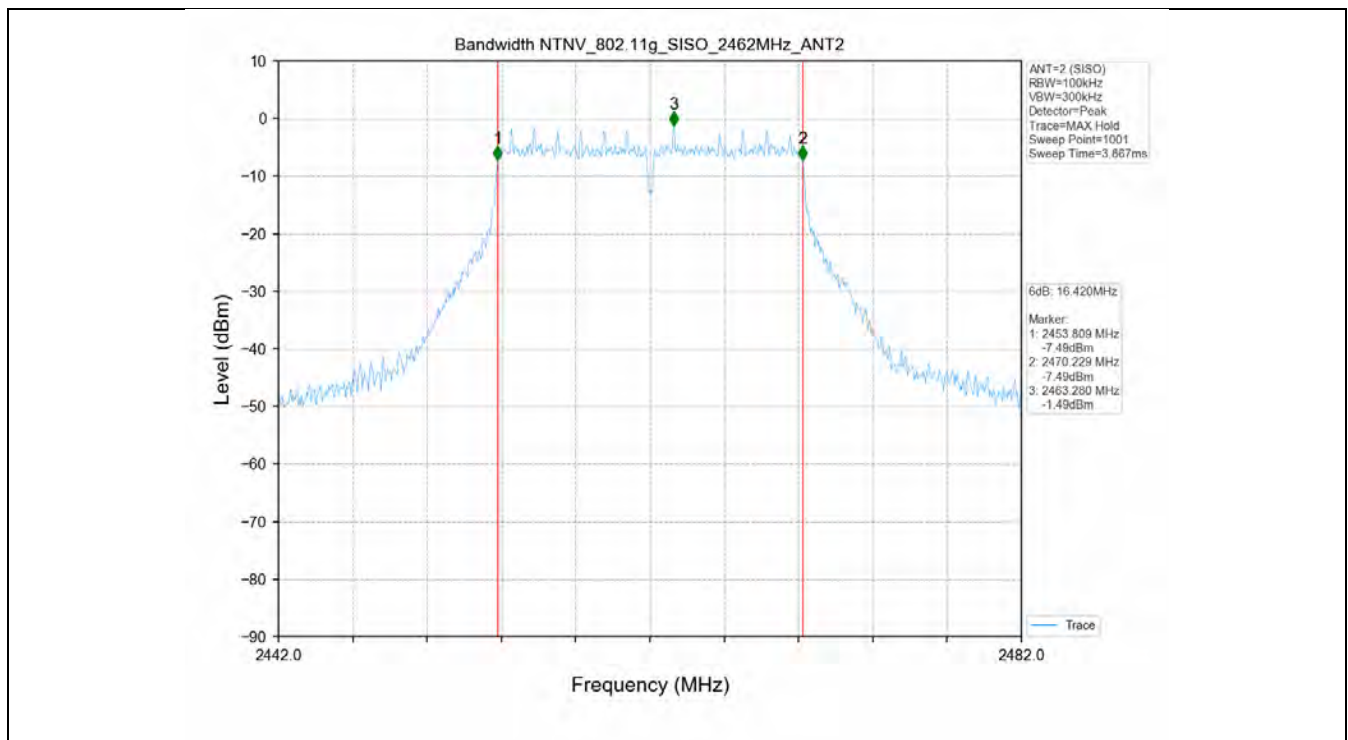
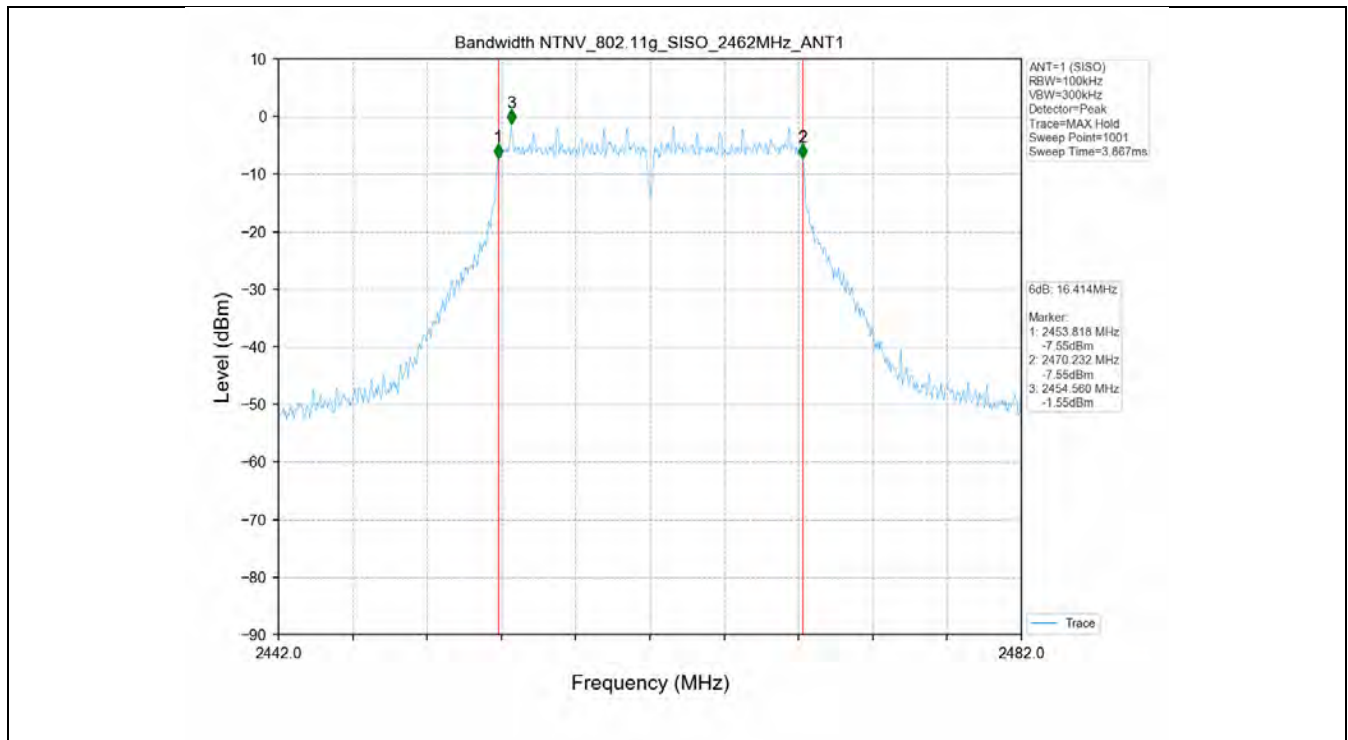


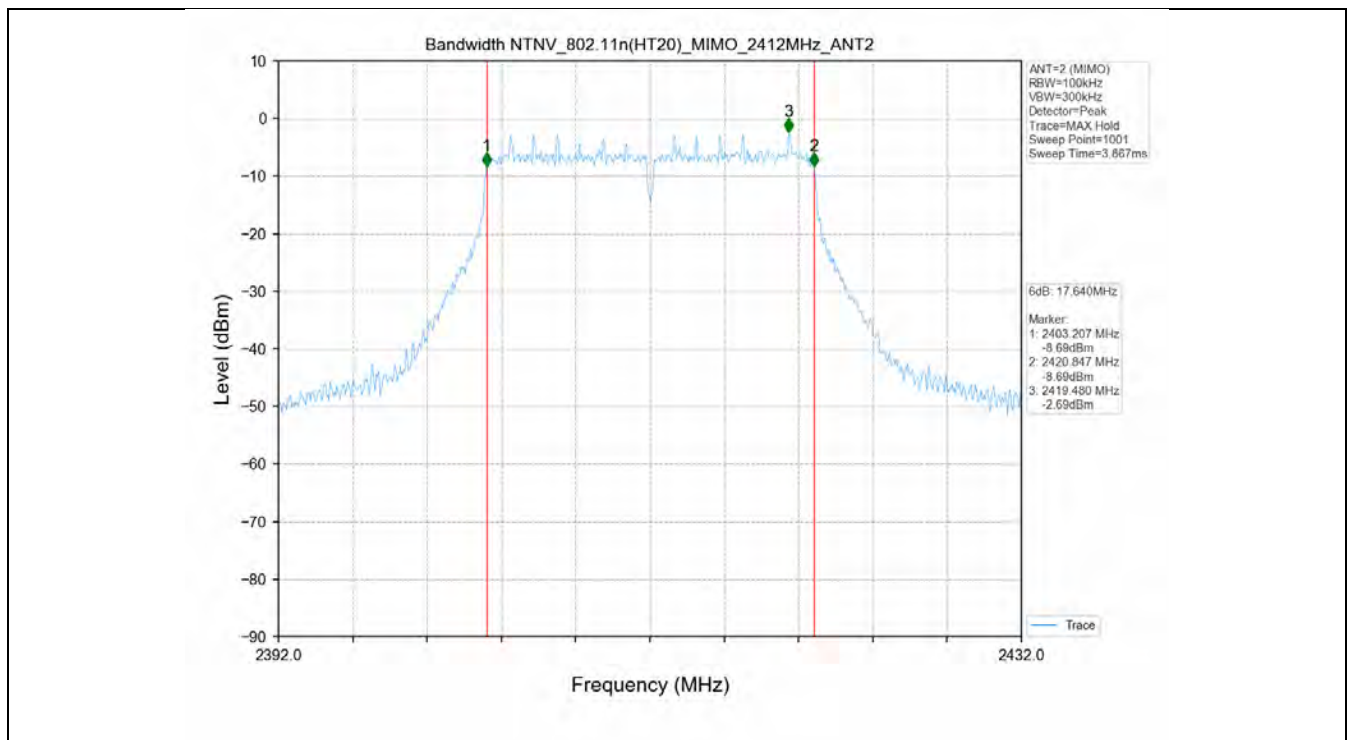
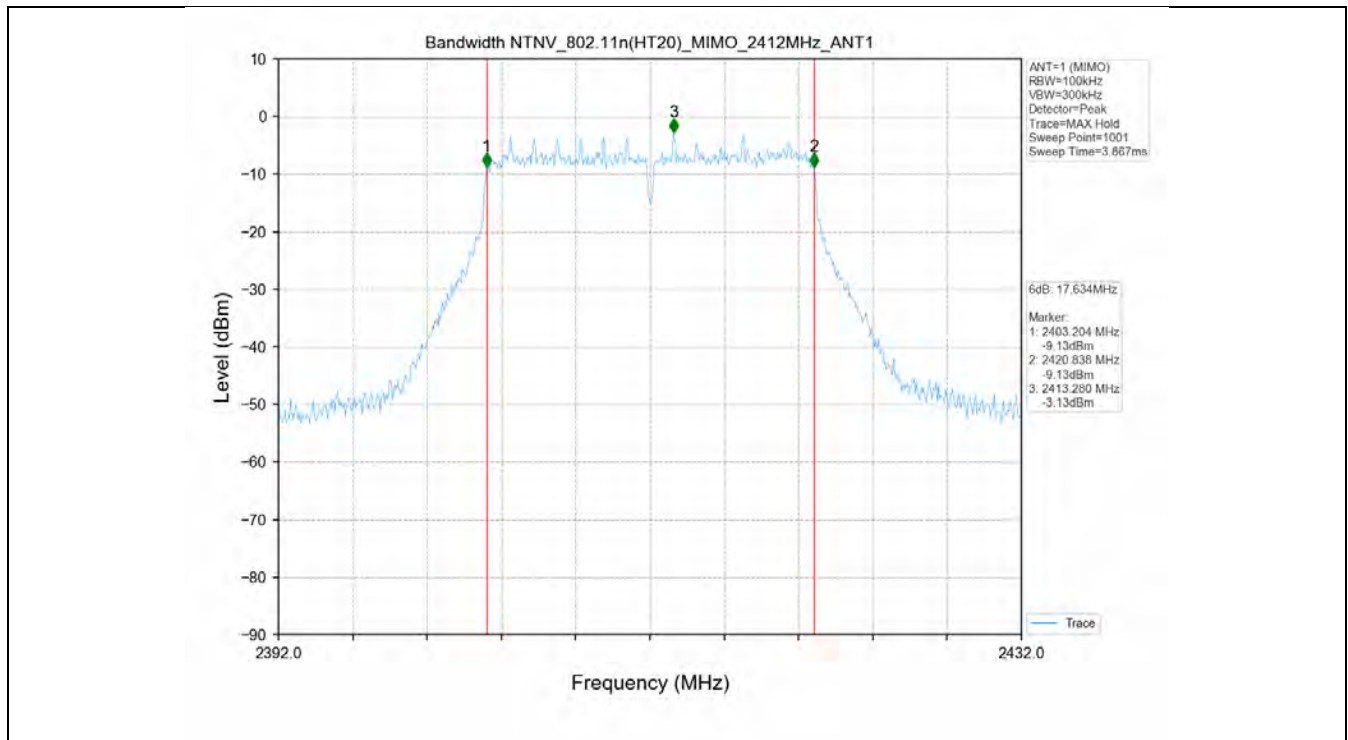


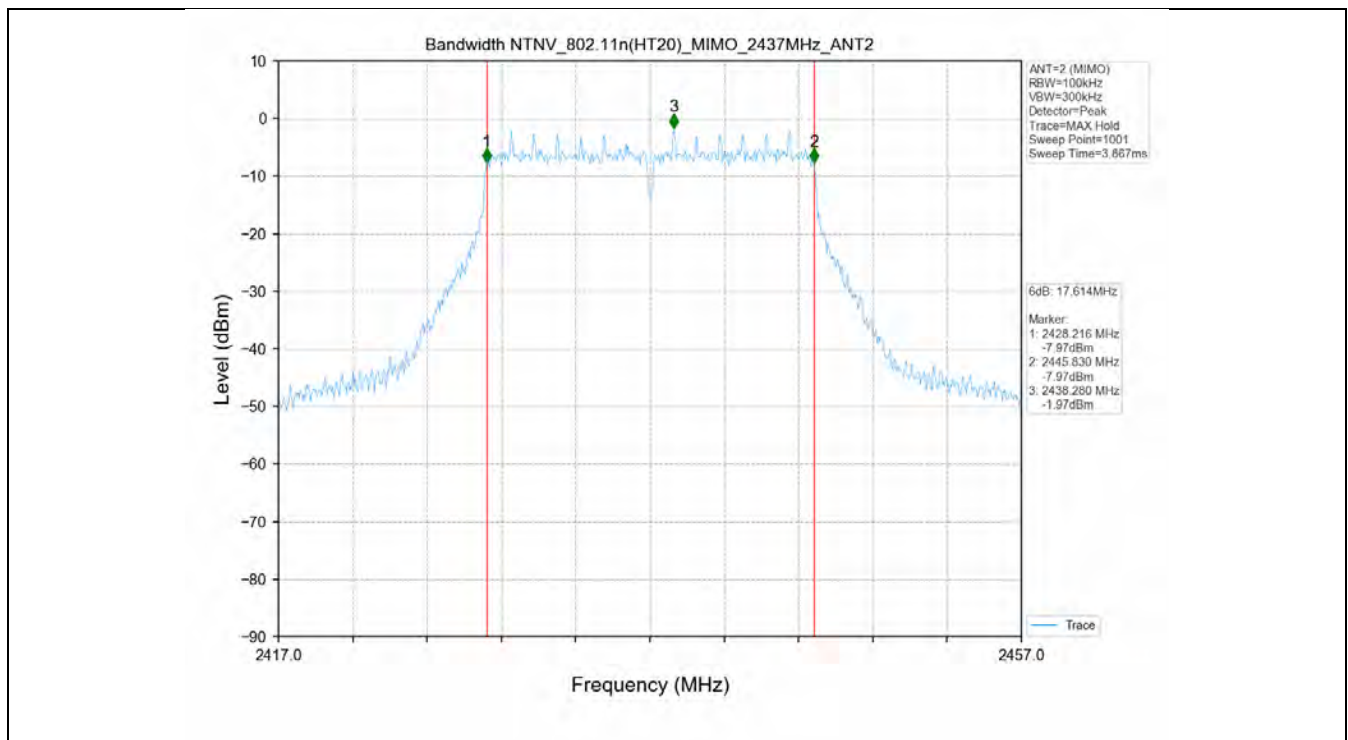
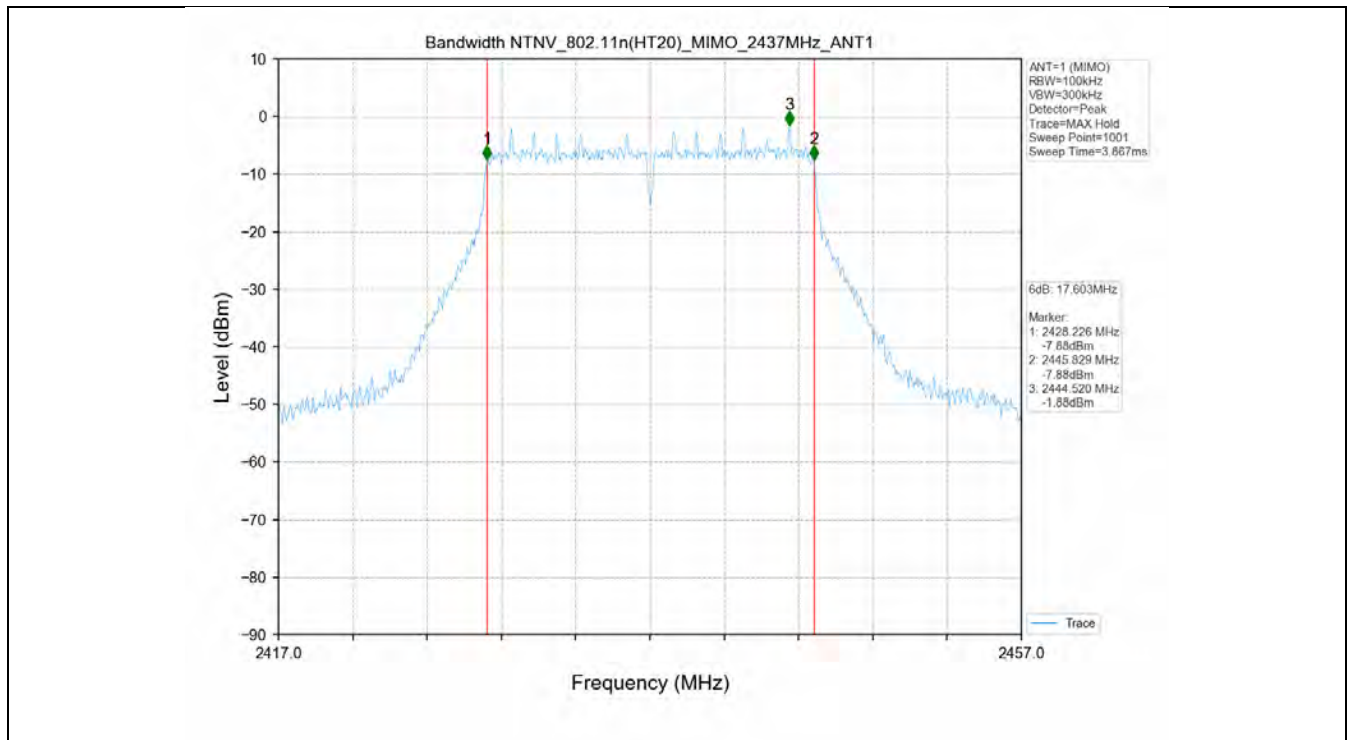


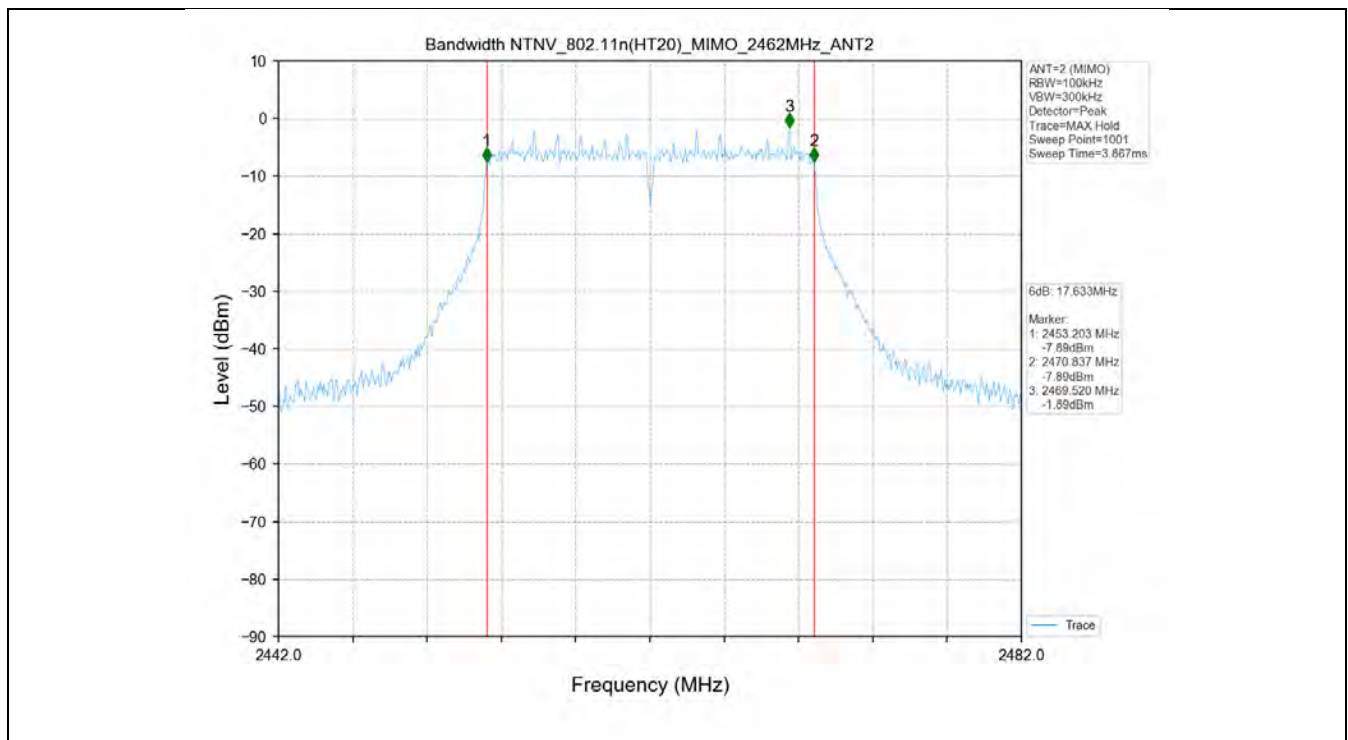
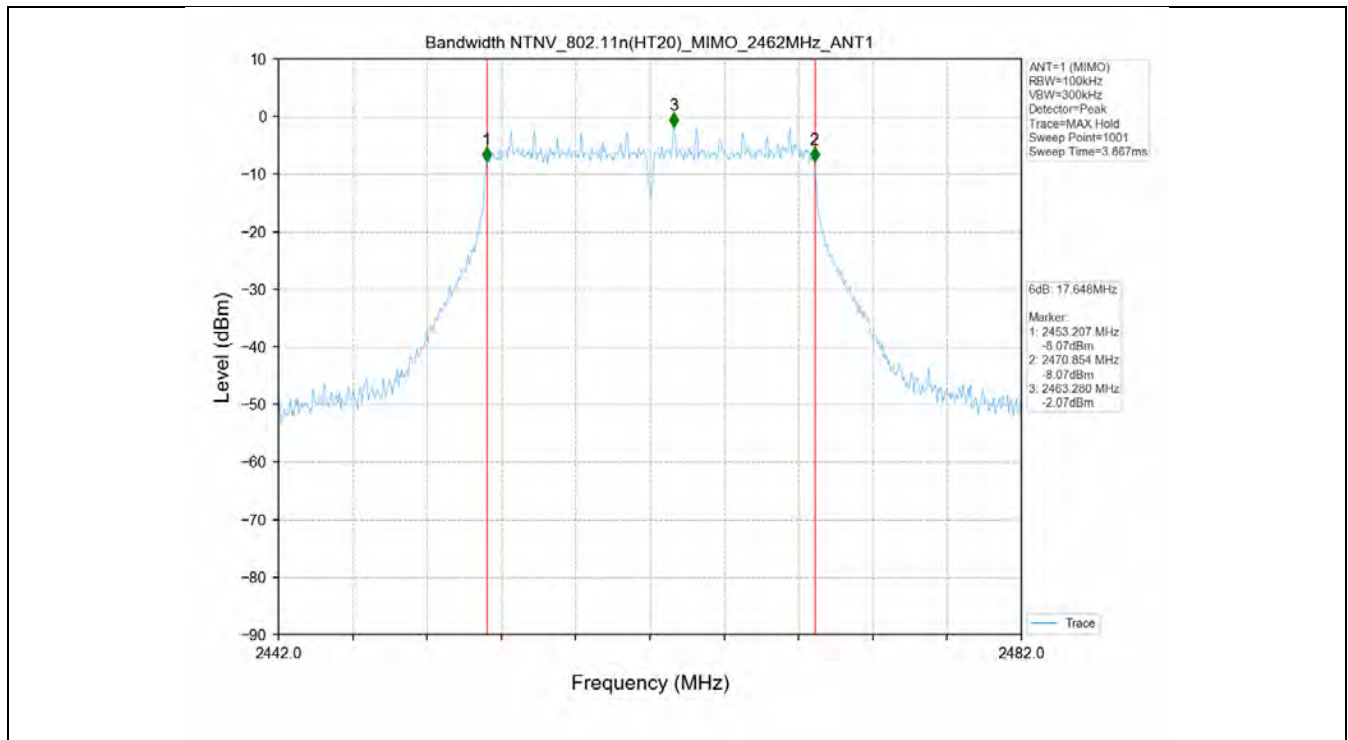


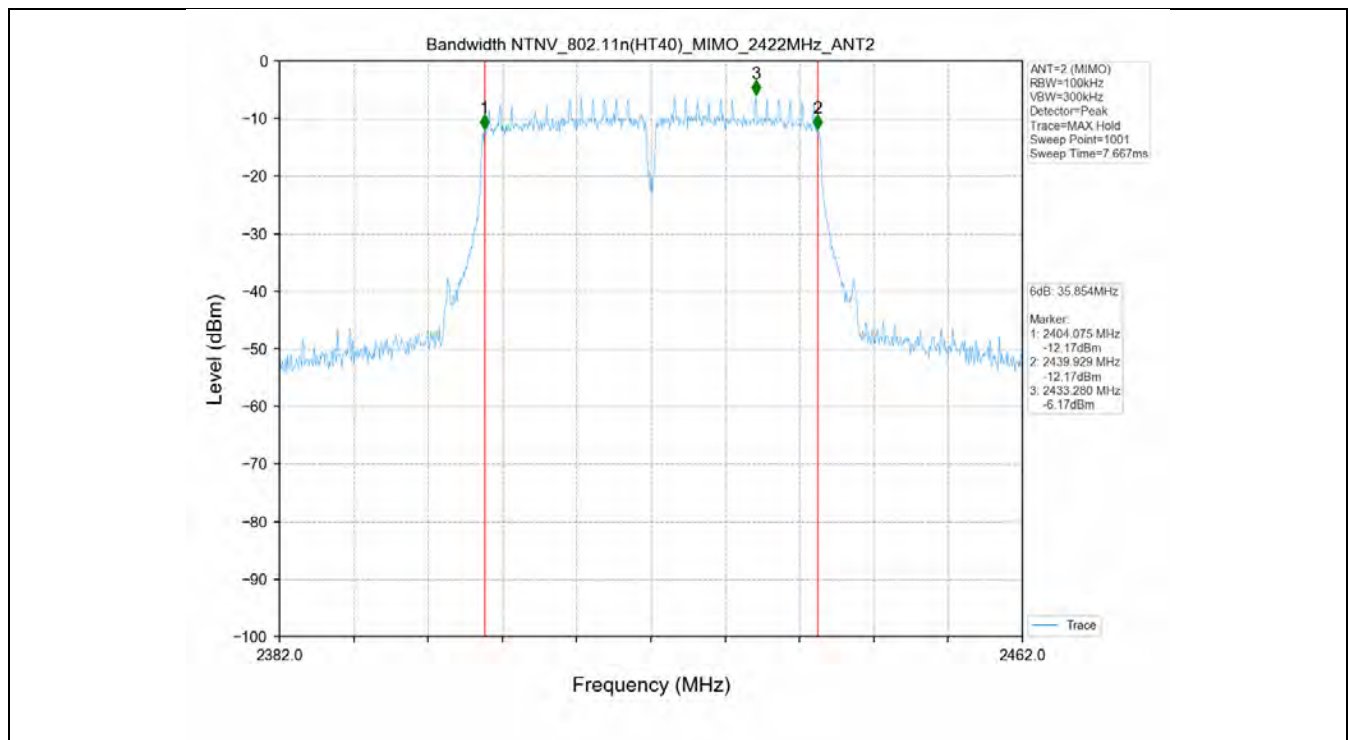
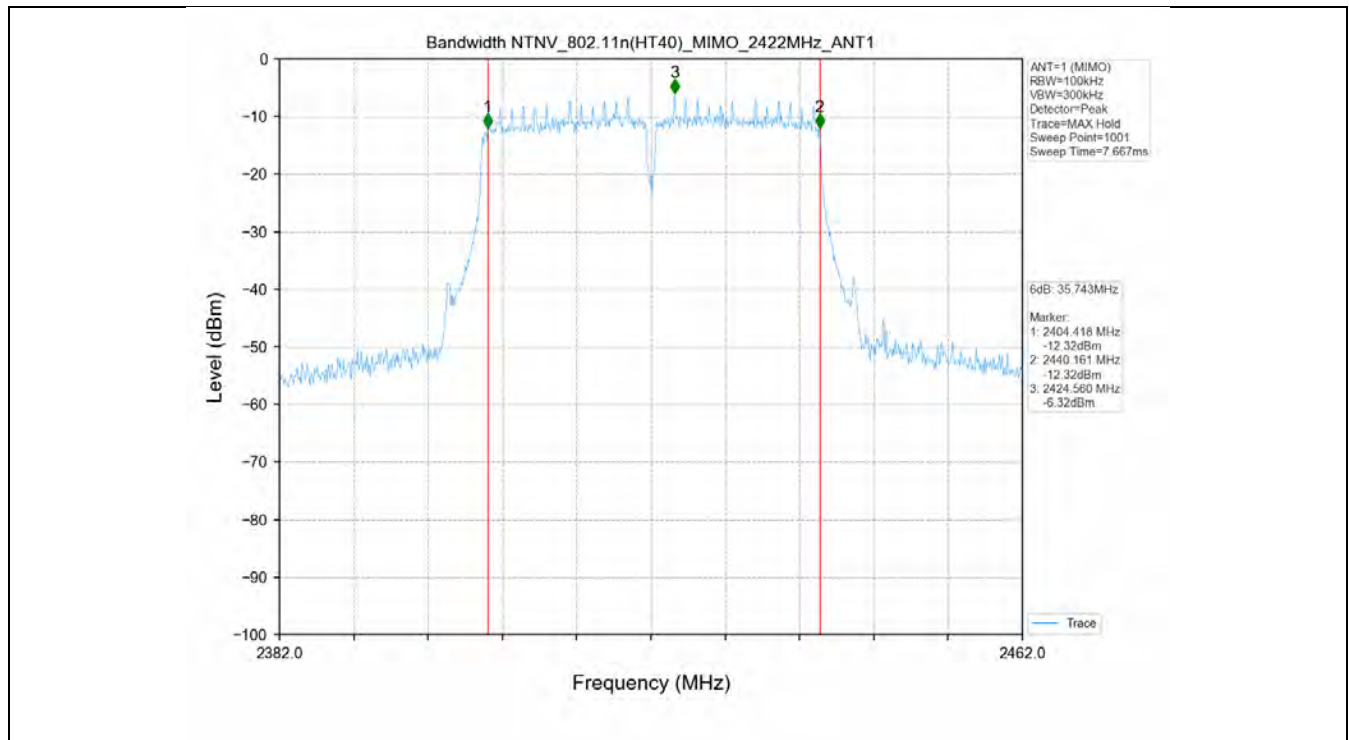


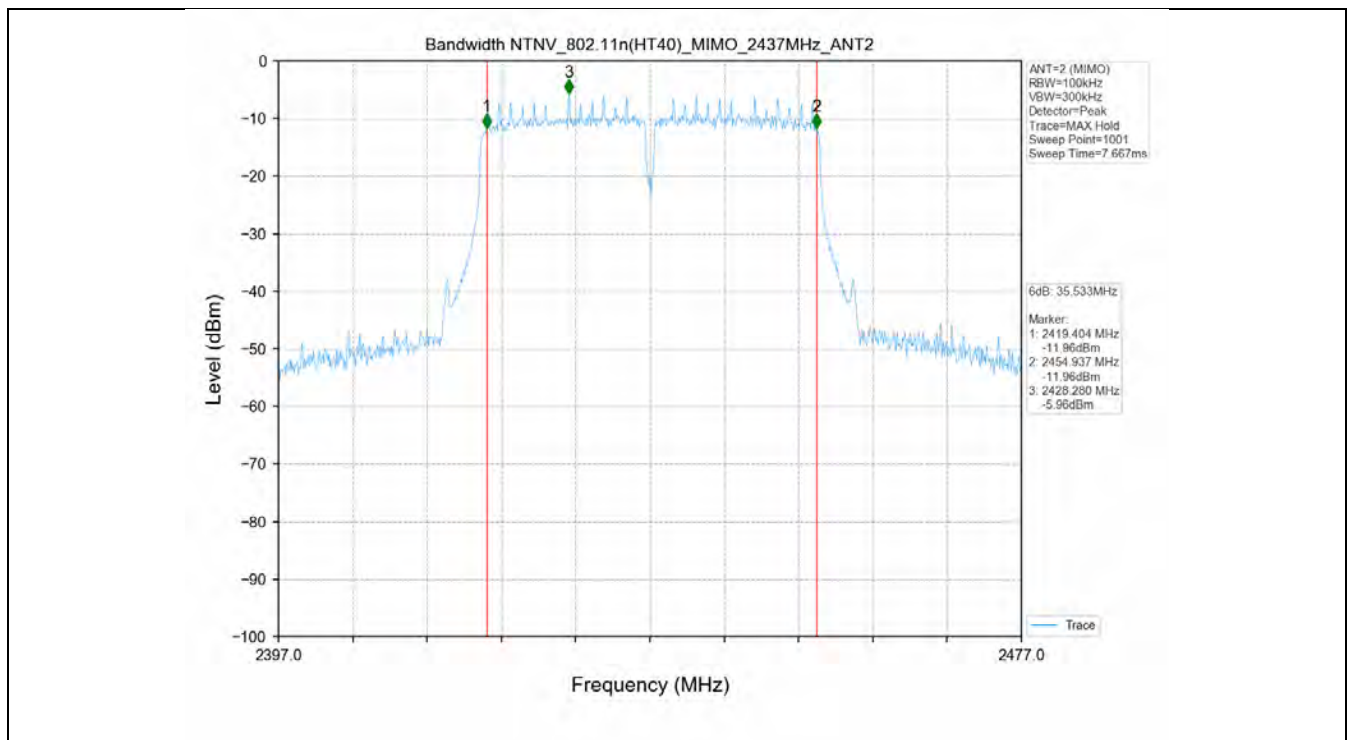
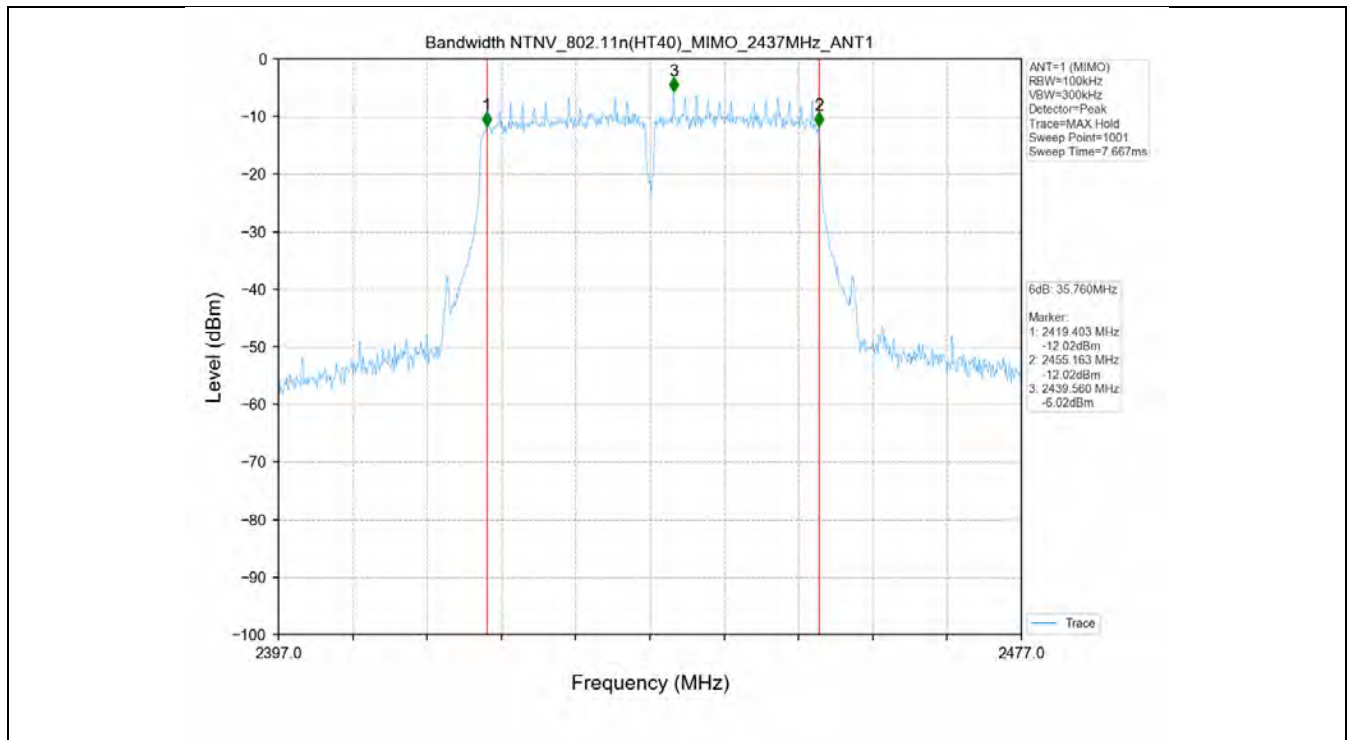


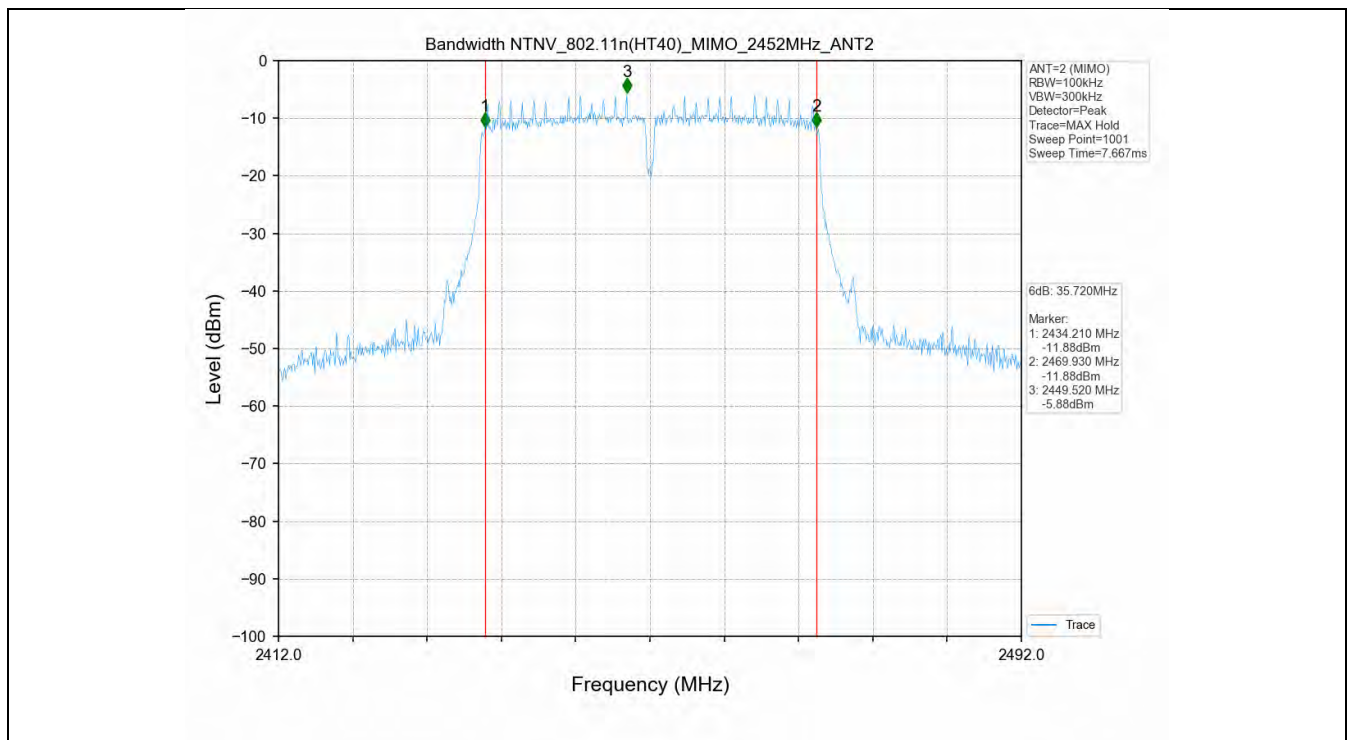
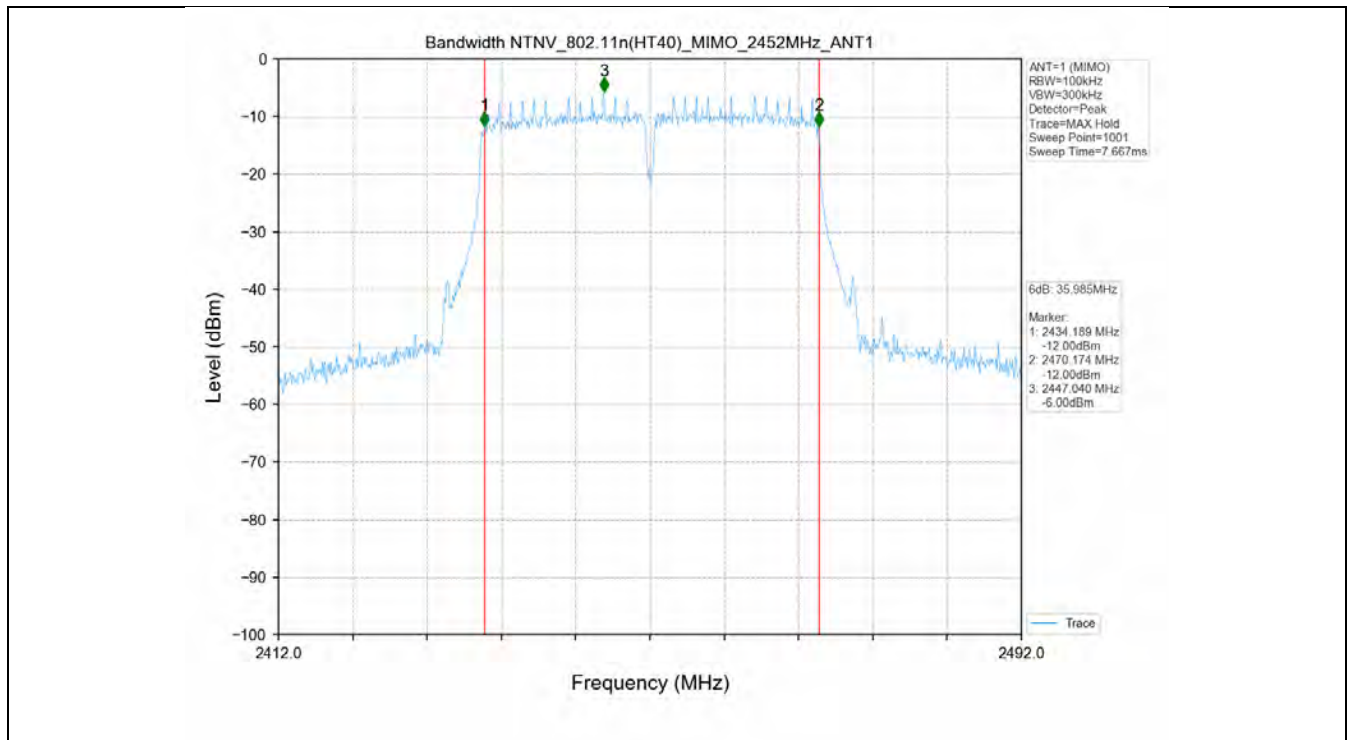






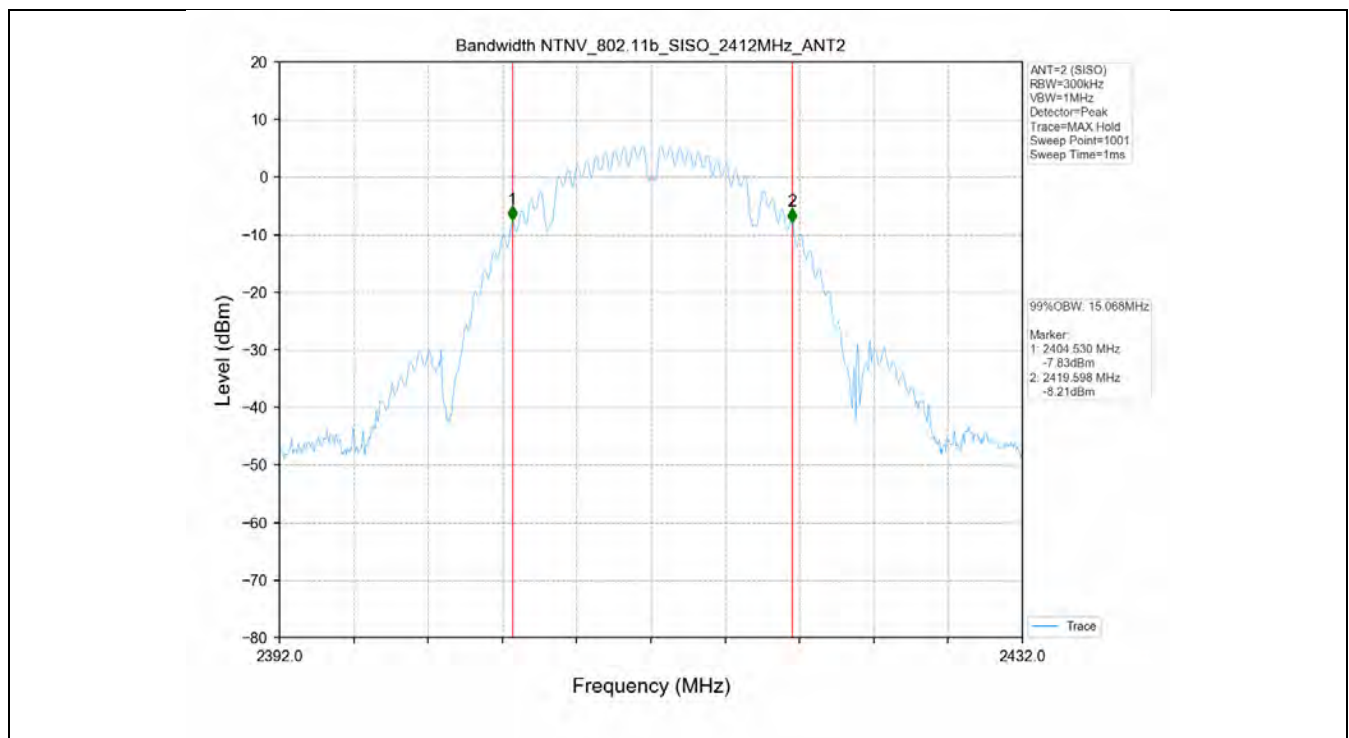
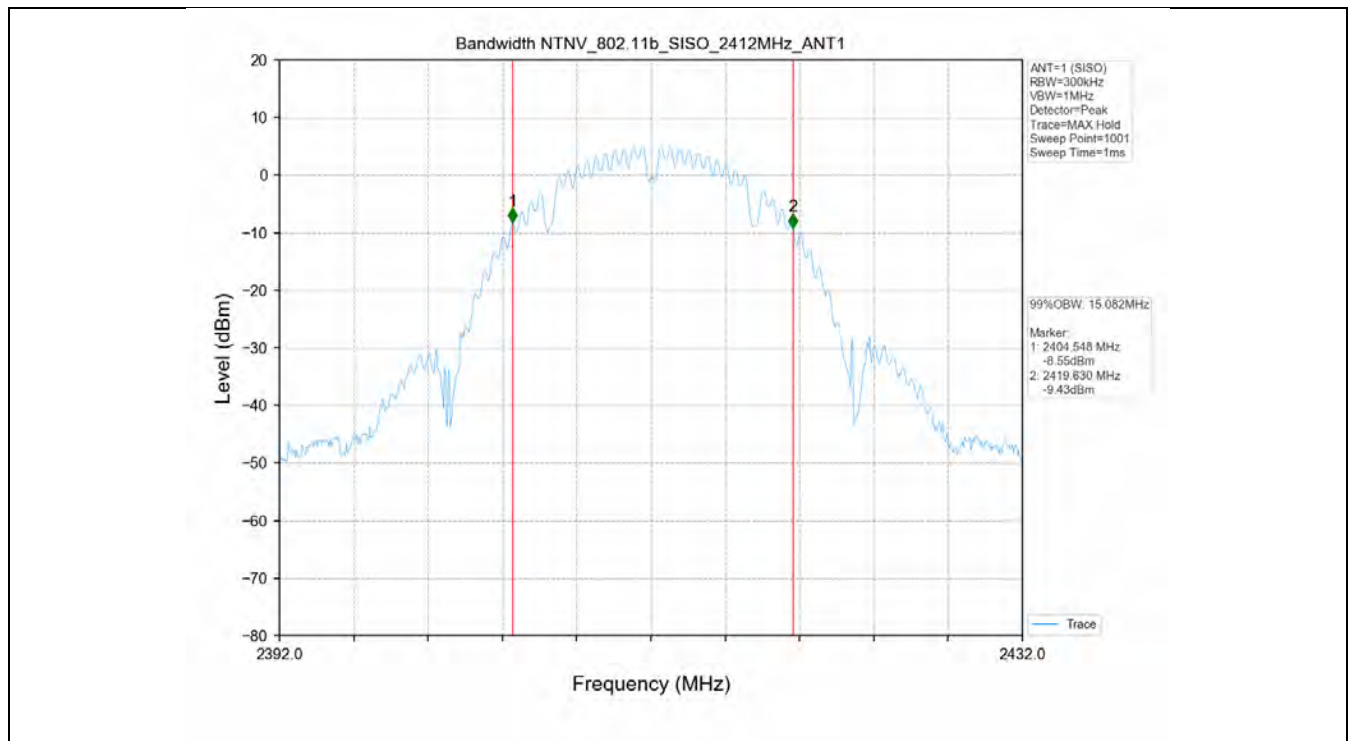


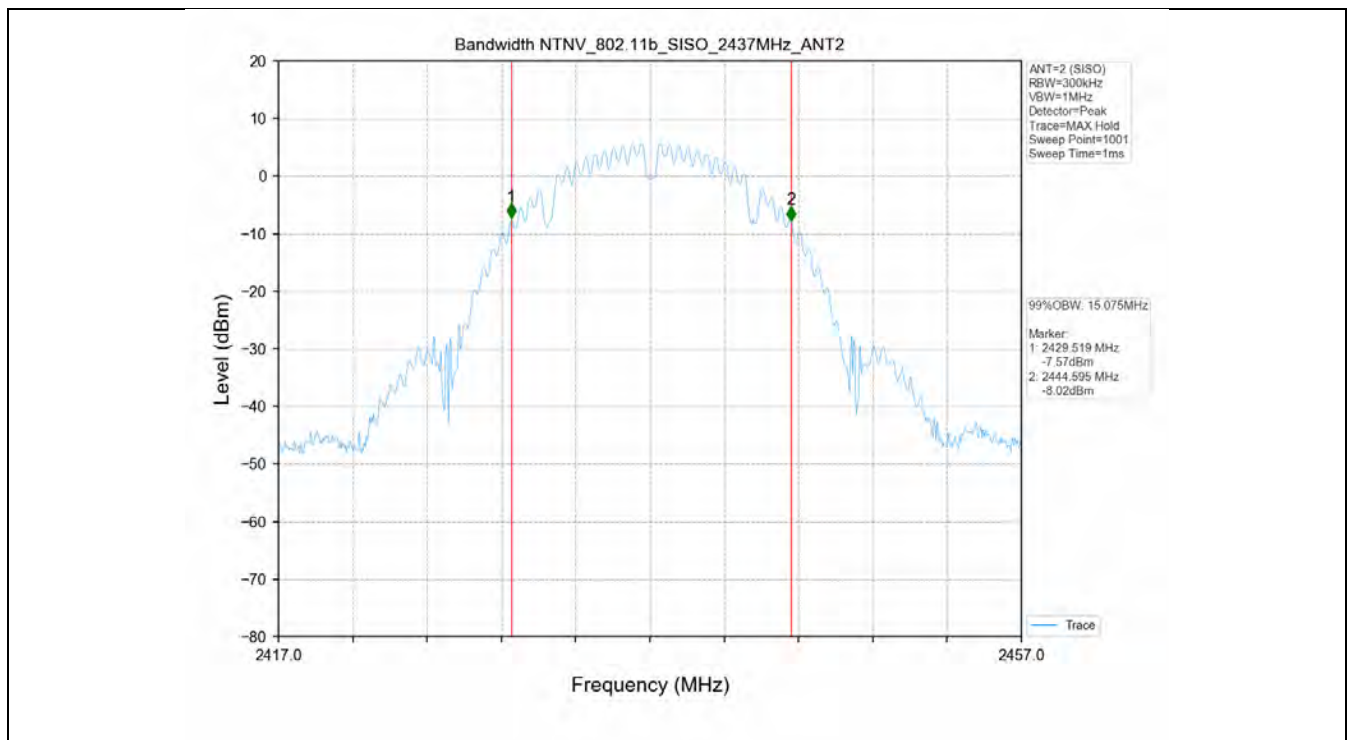
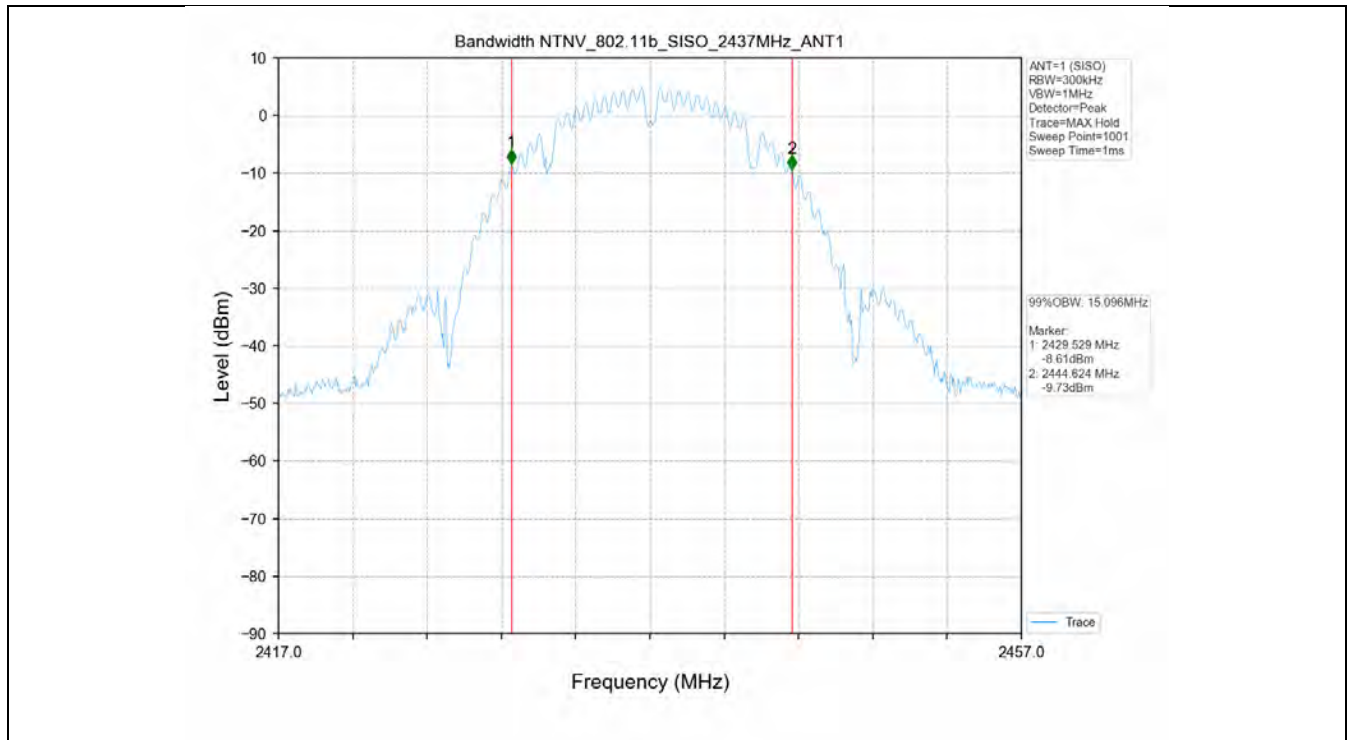


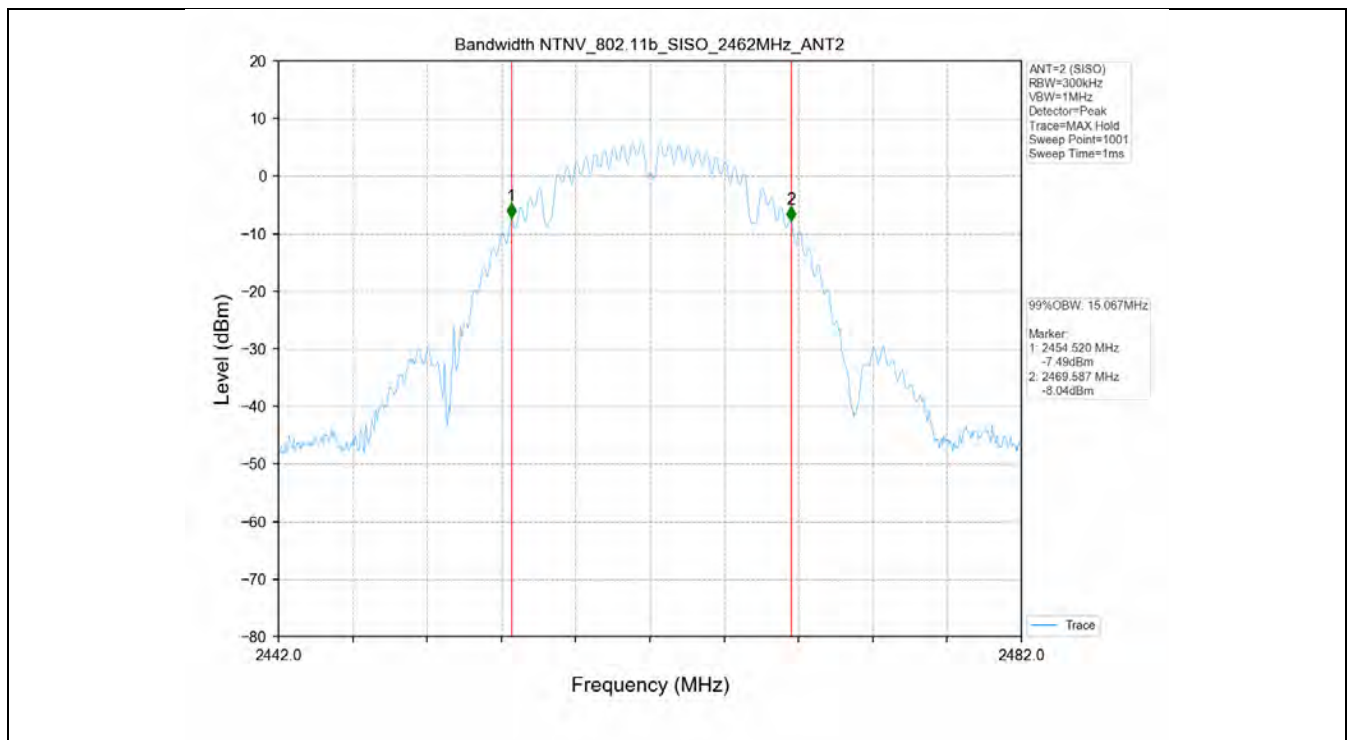
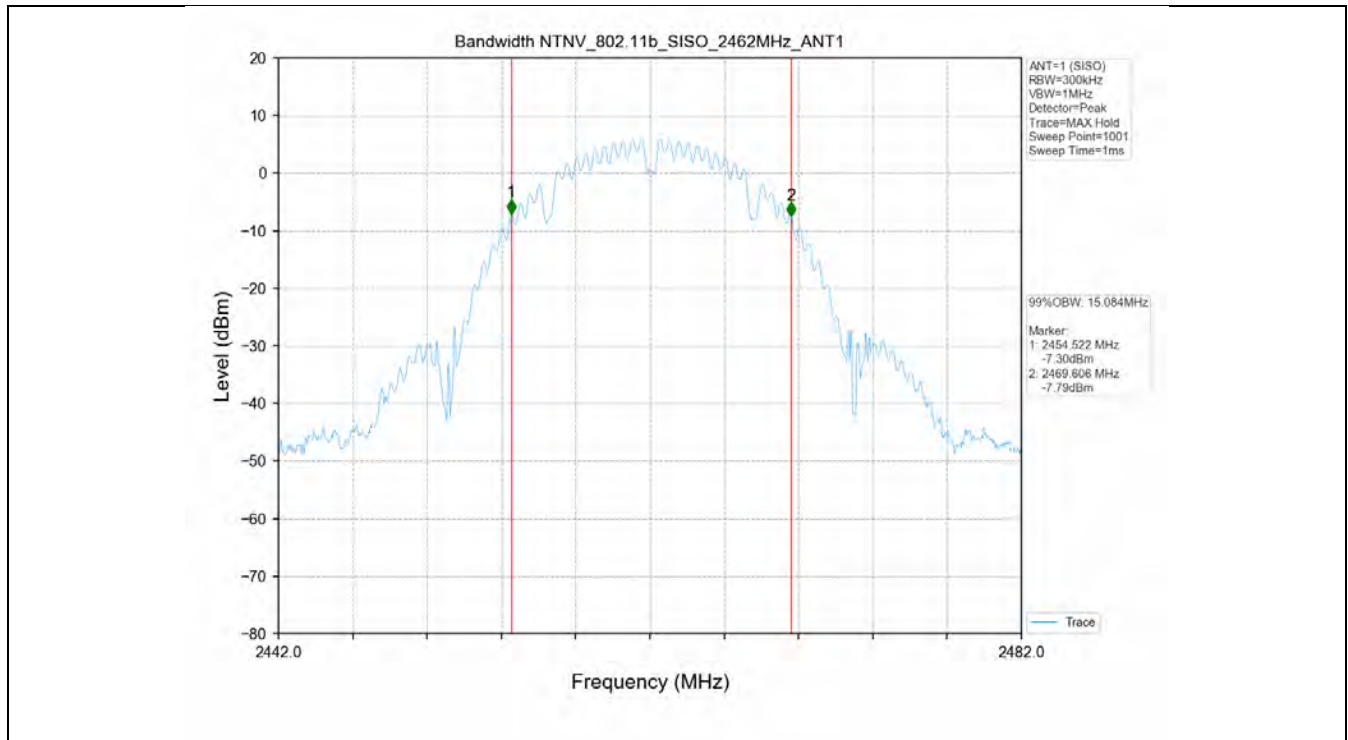


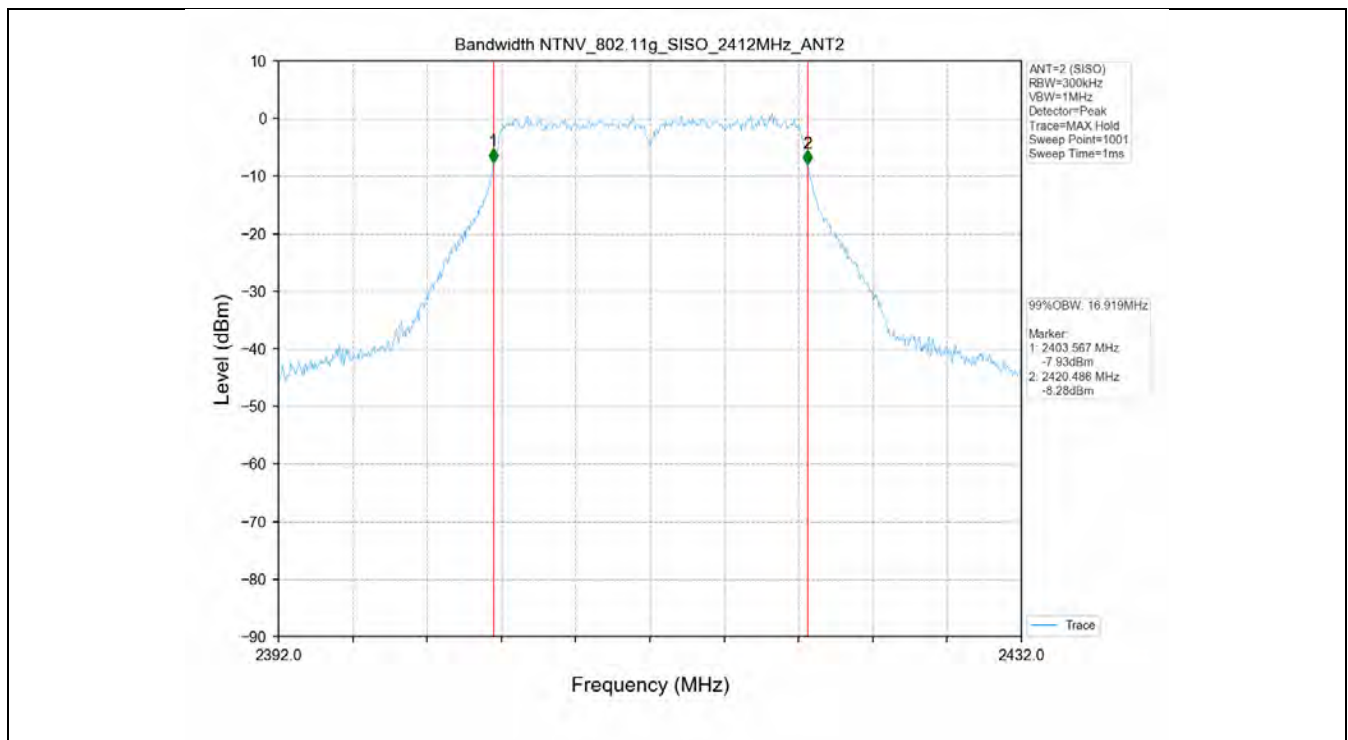
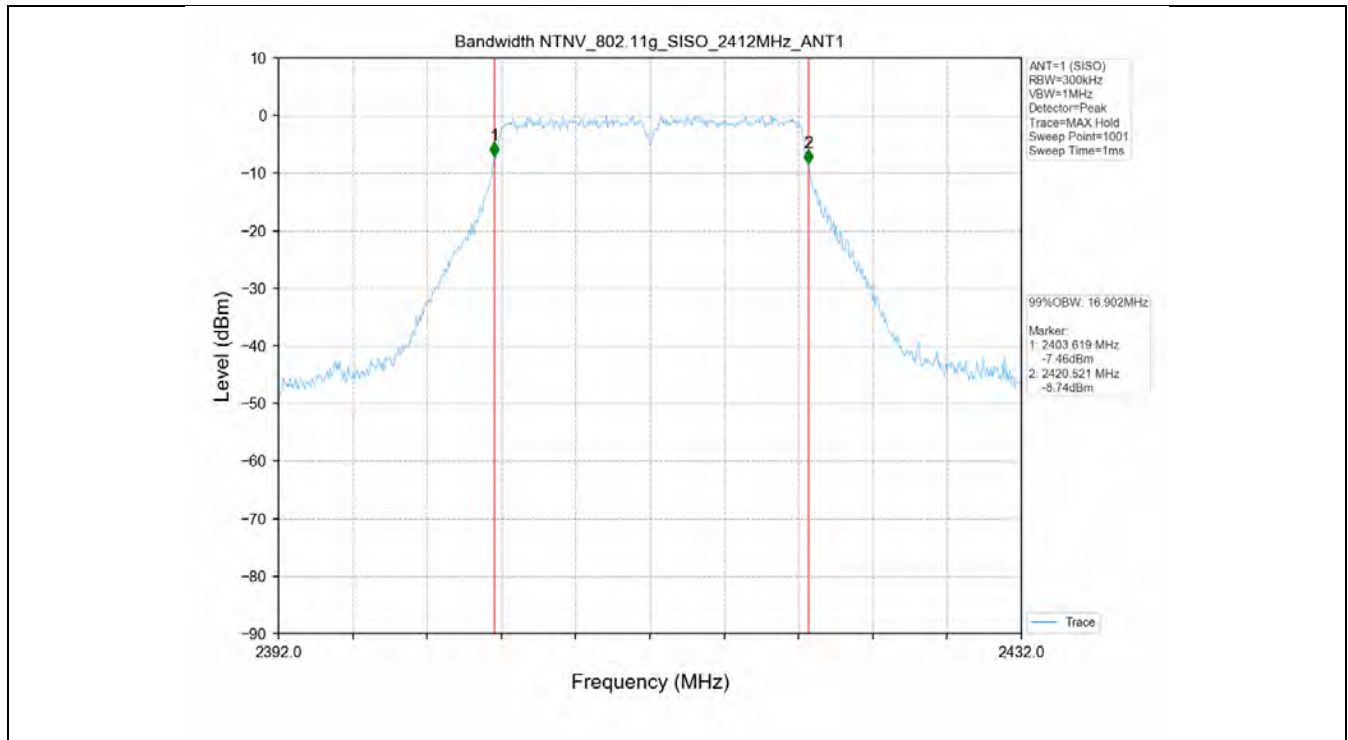


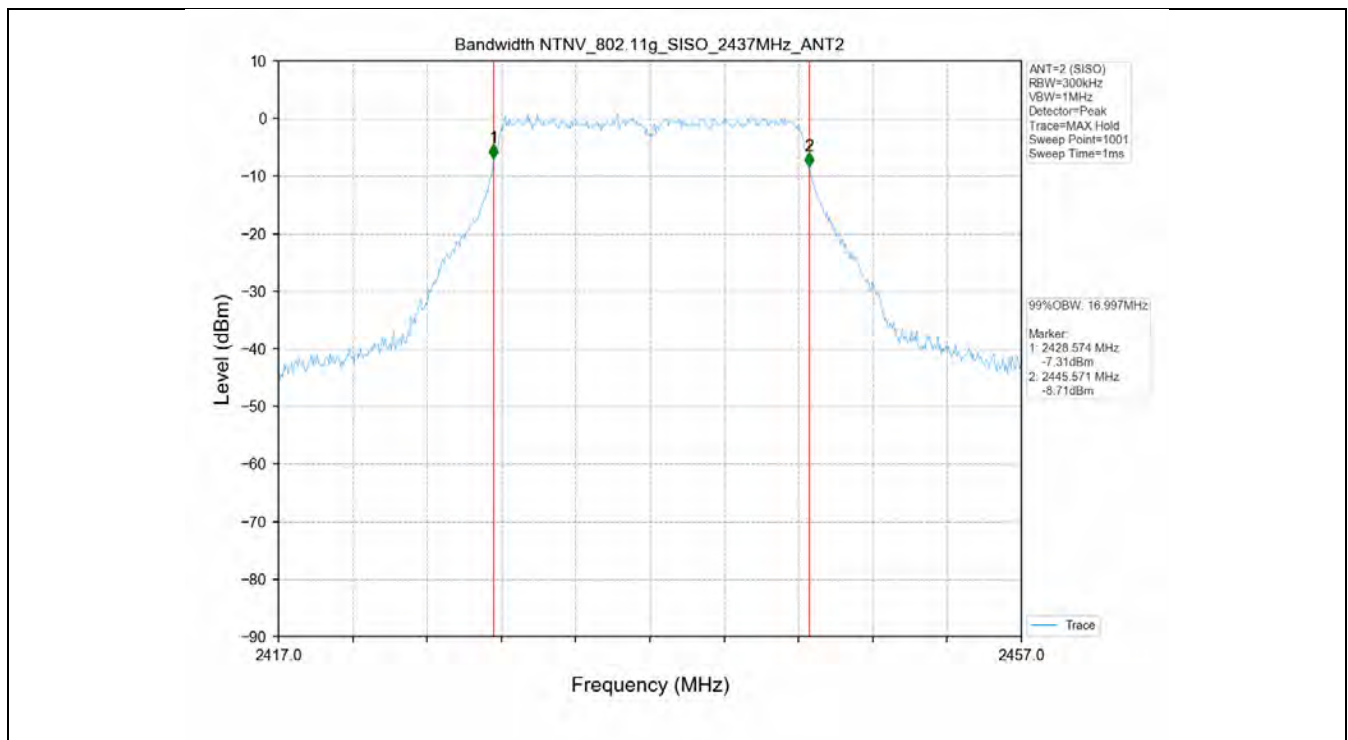
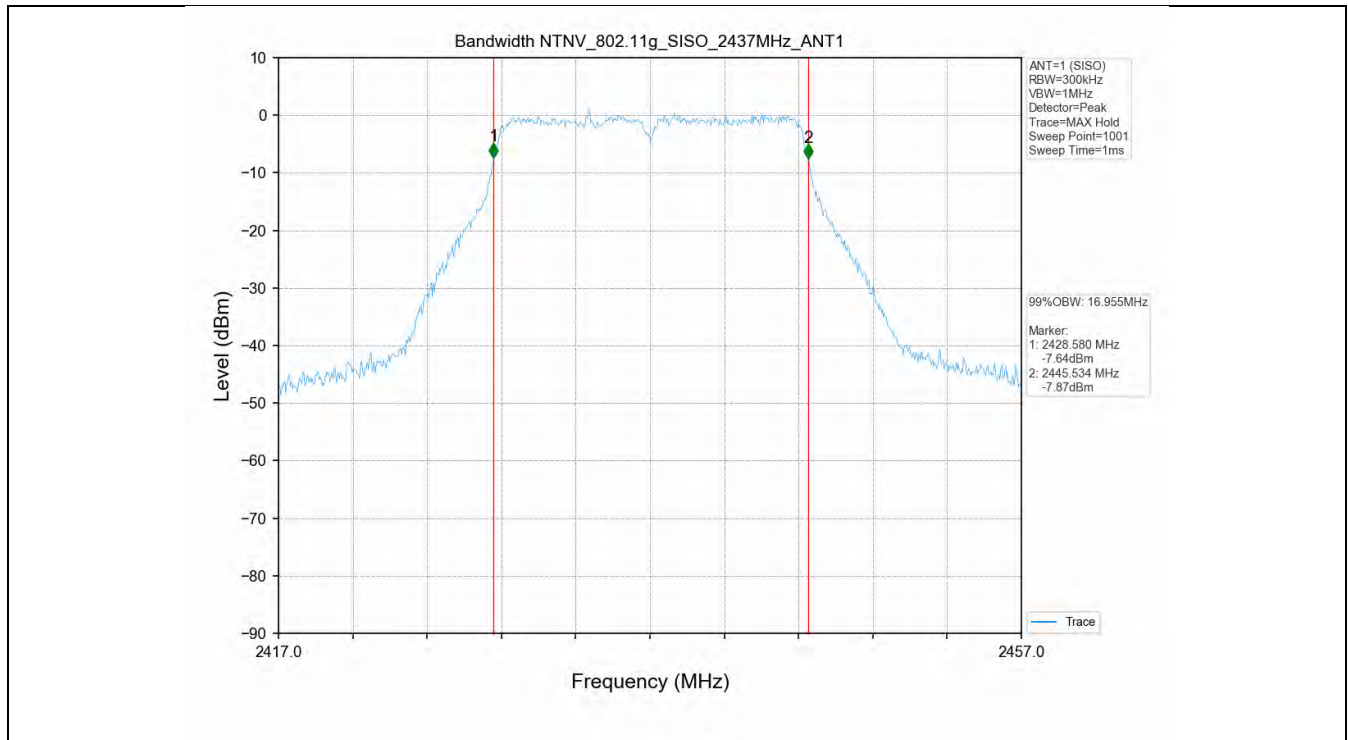
2.3 Test Graph - 99% Occupied Bandwidth

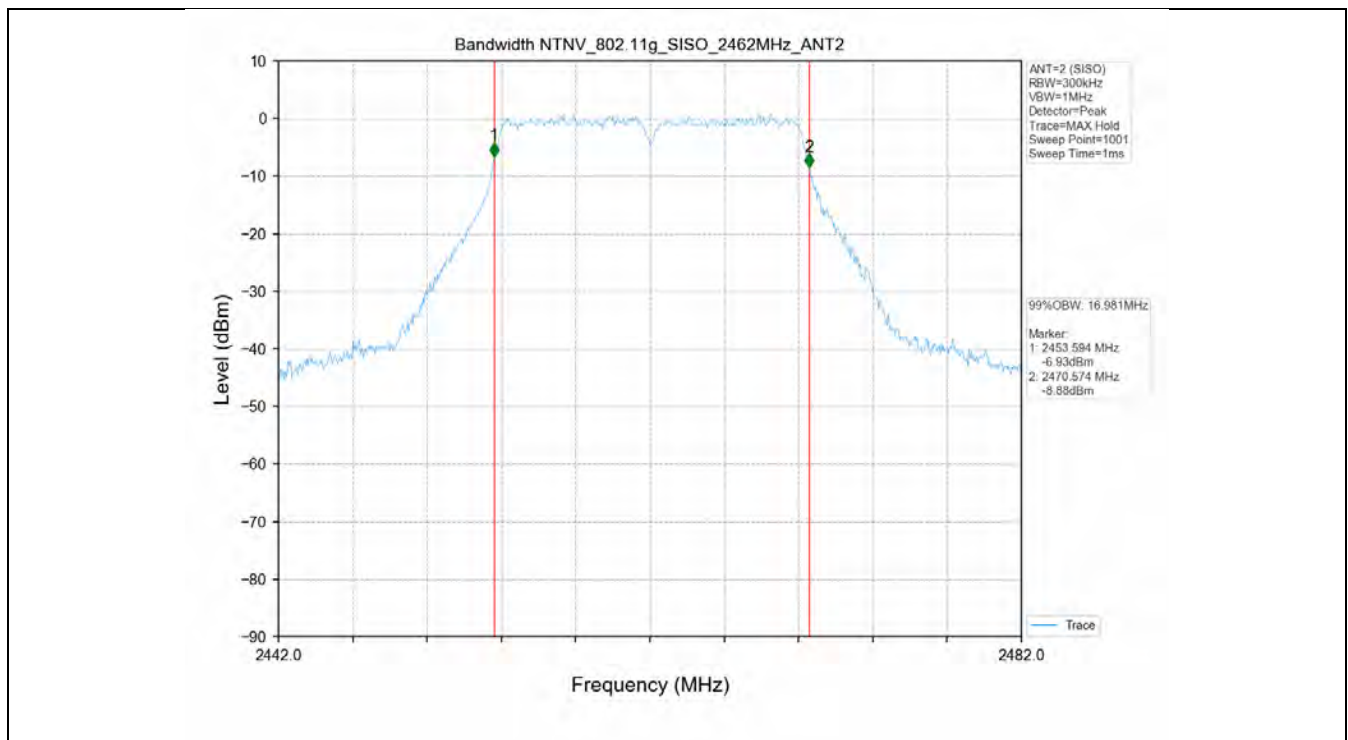
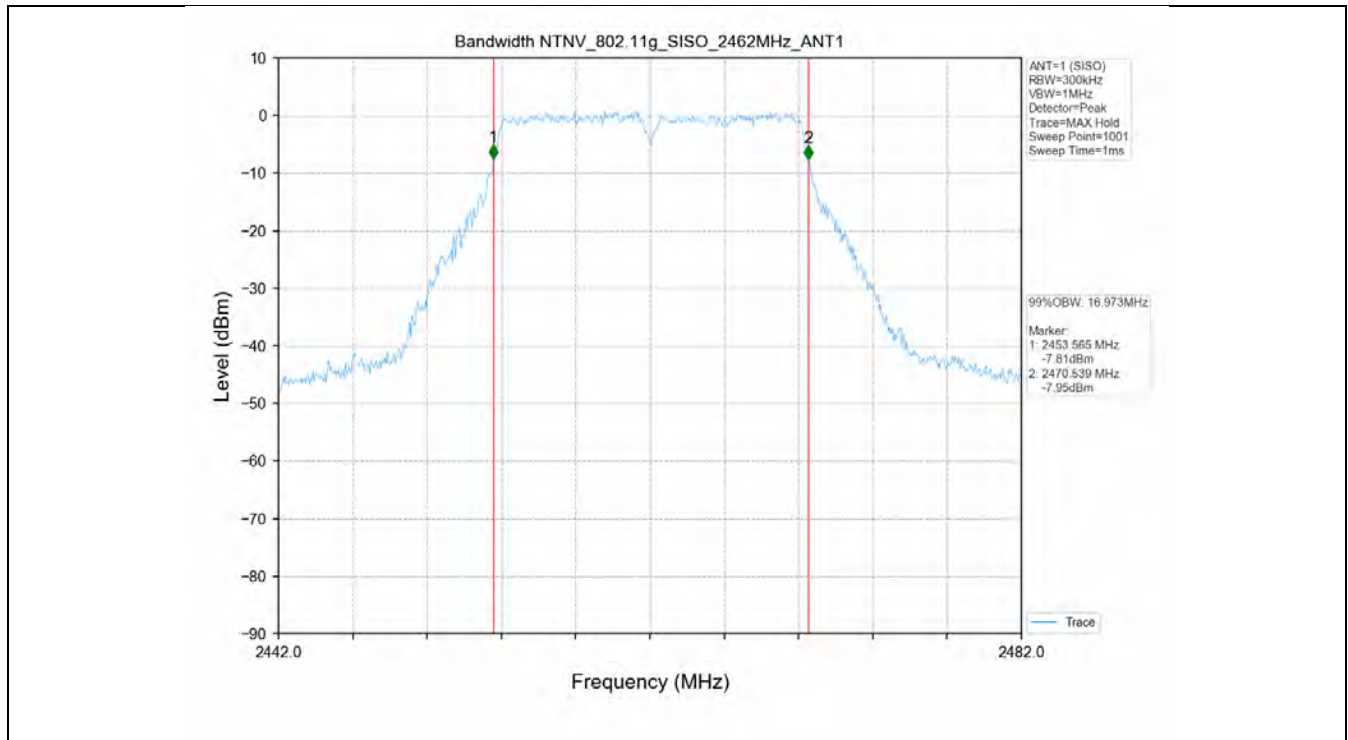


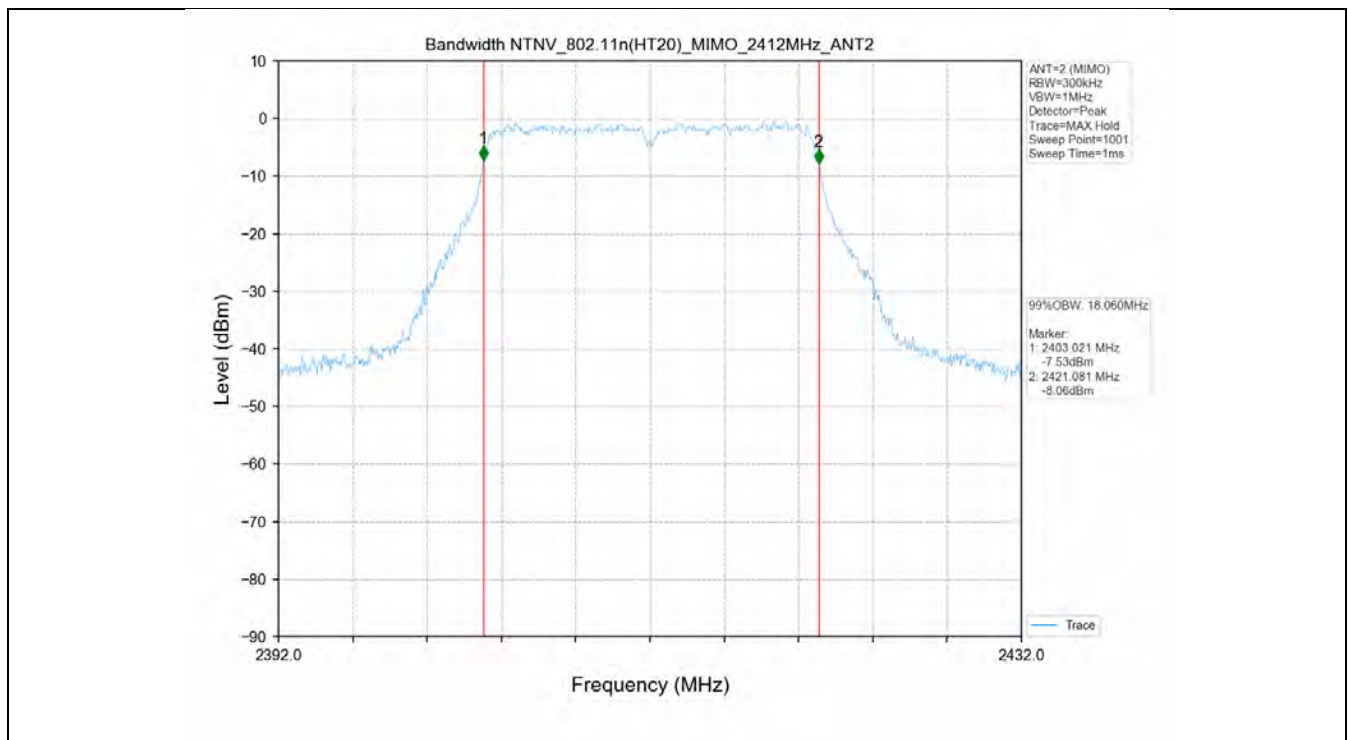
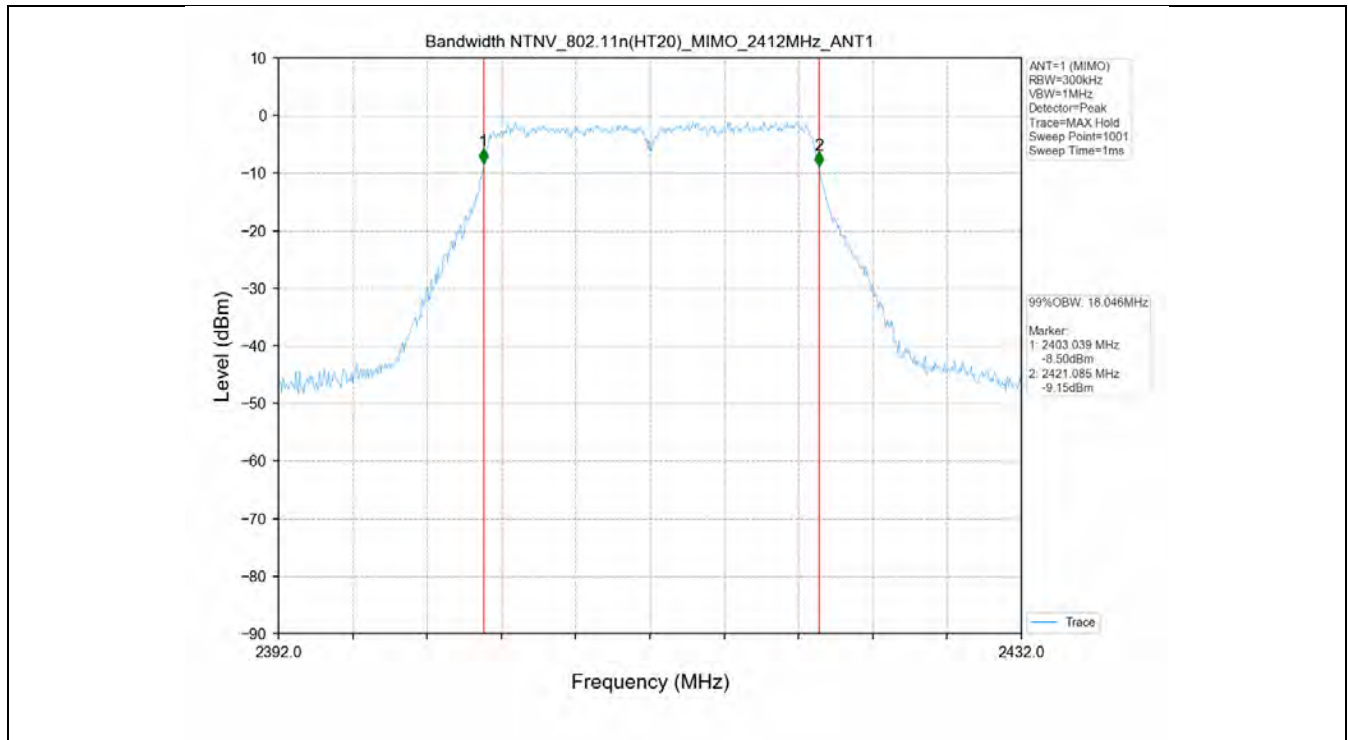


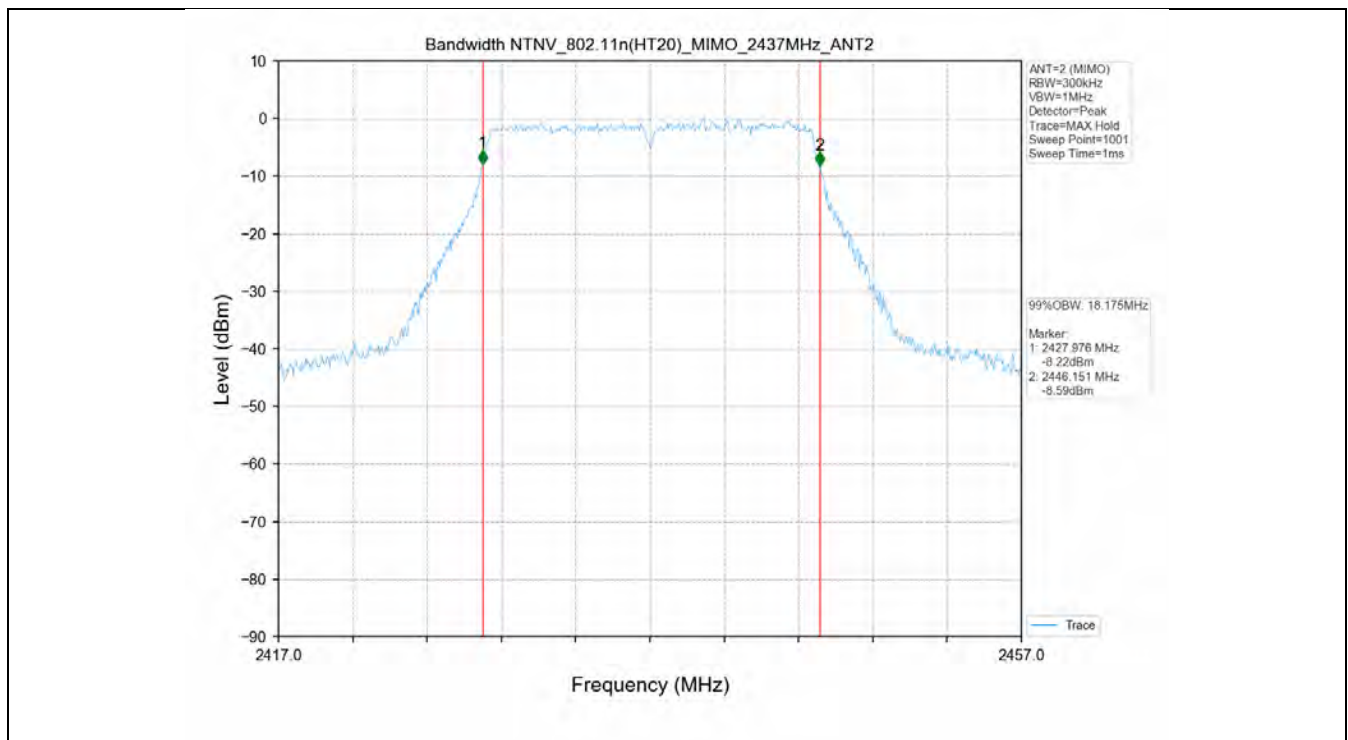
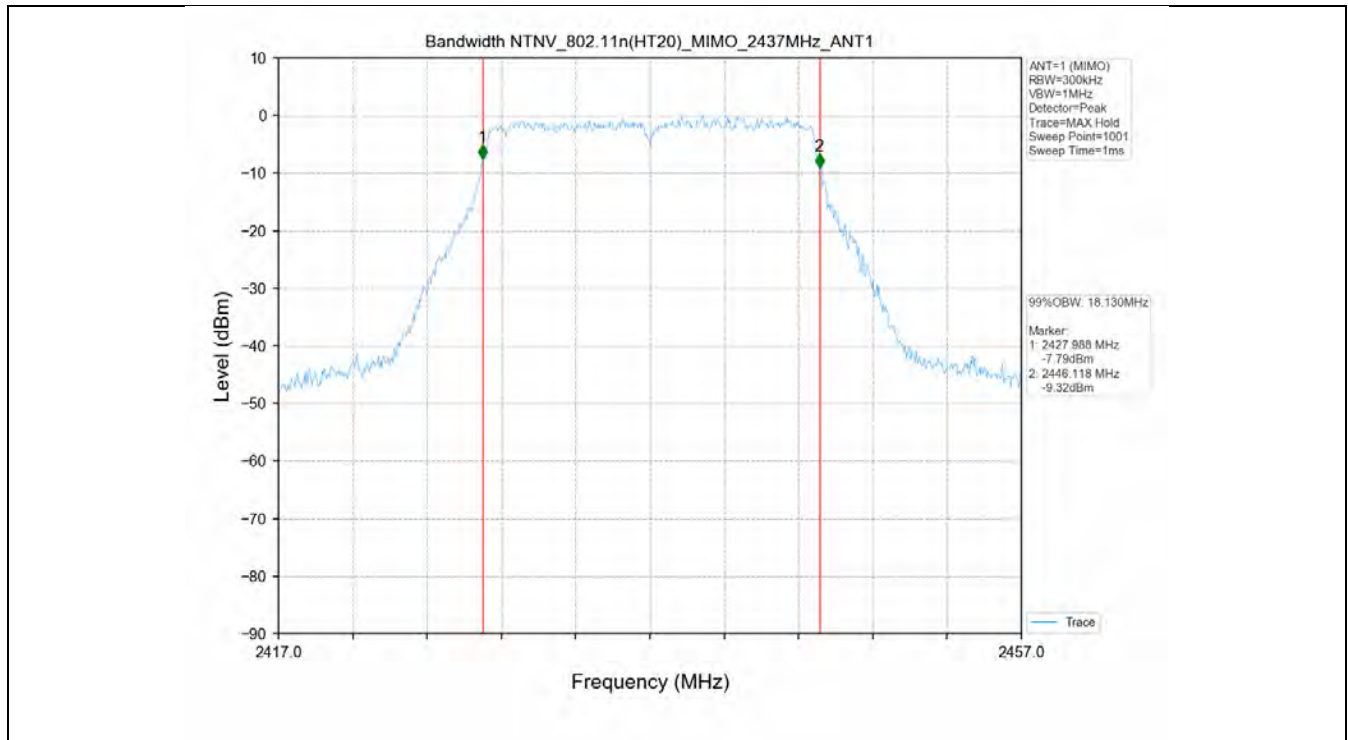


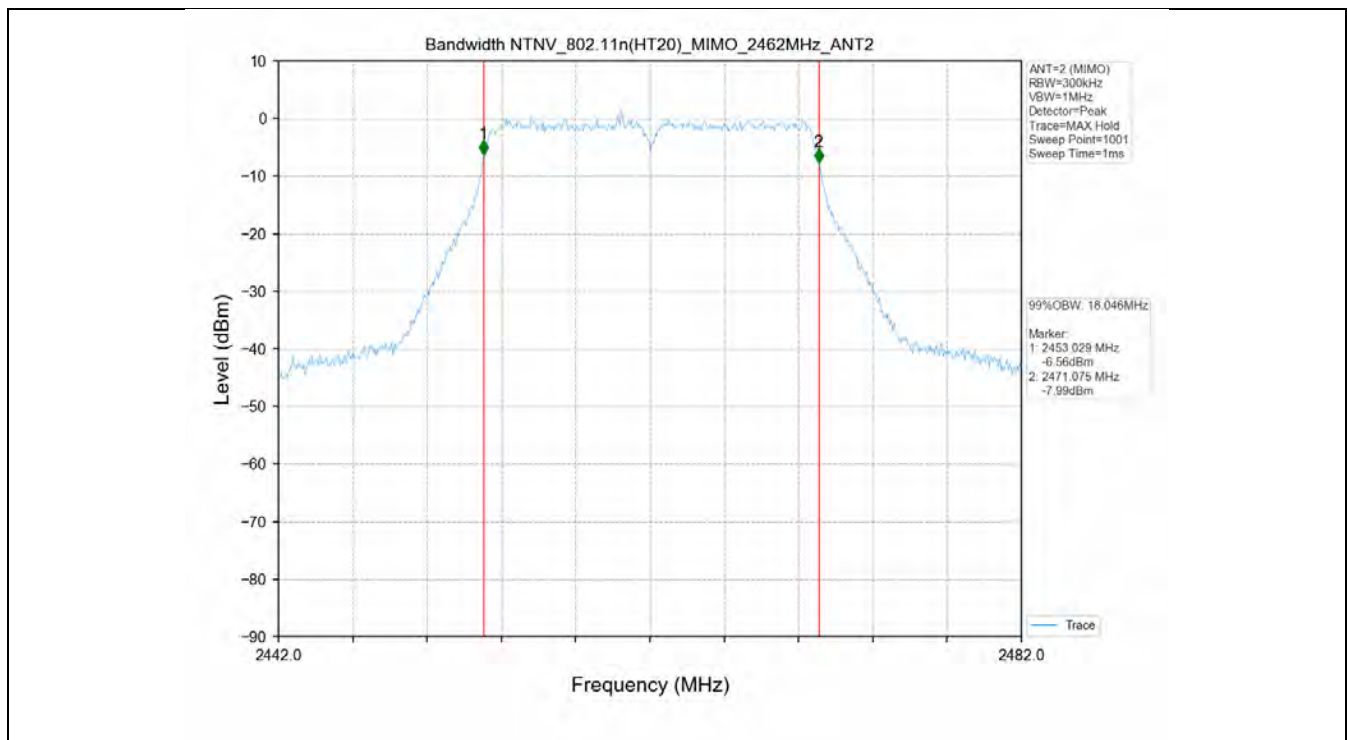
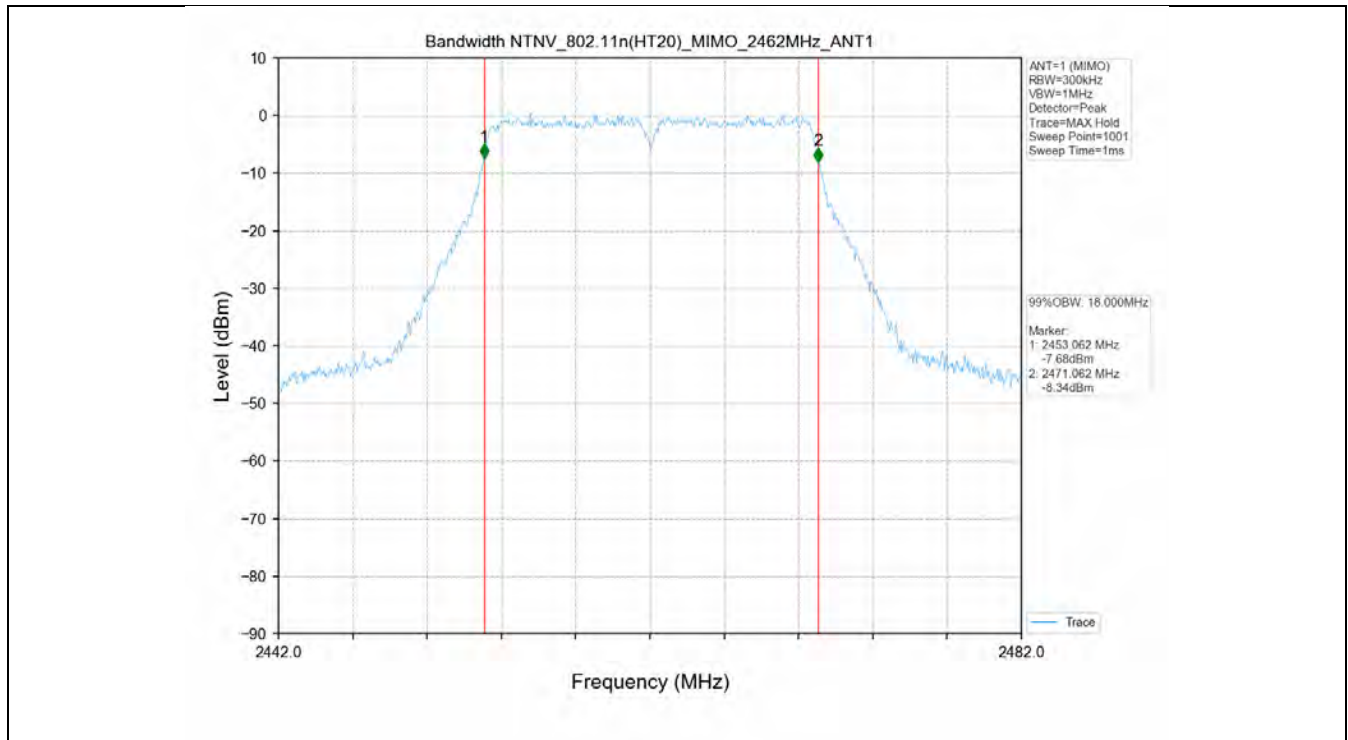


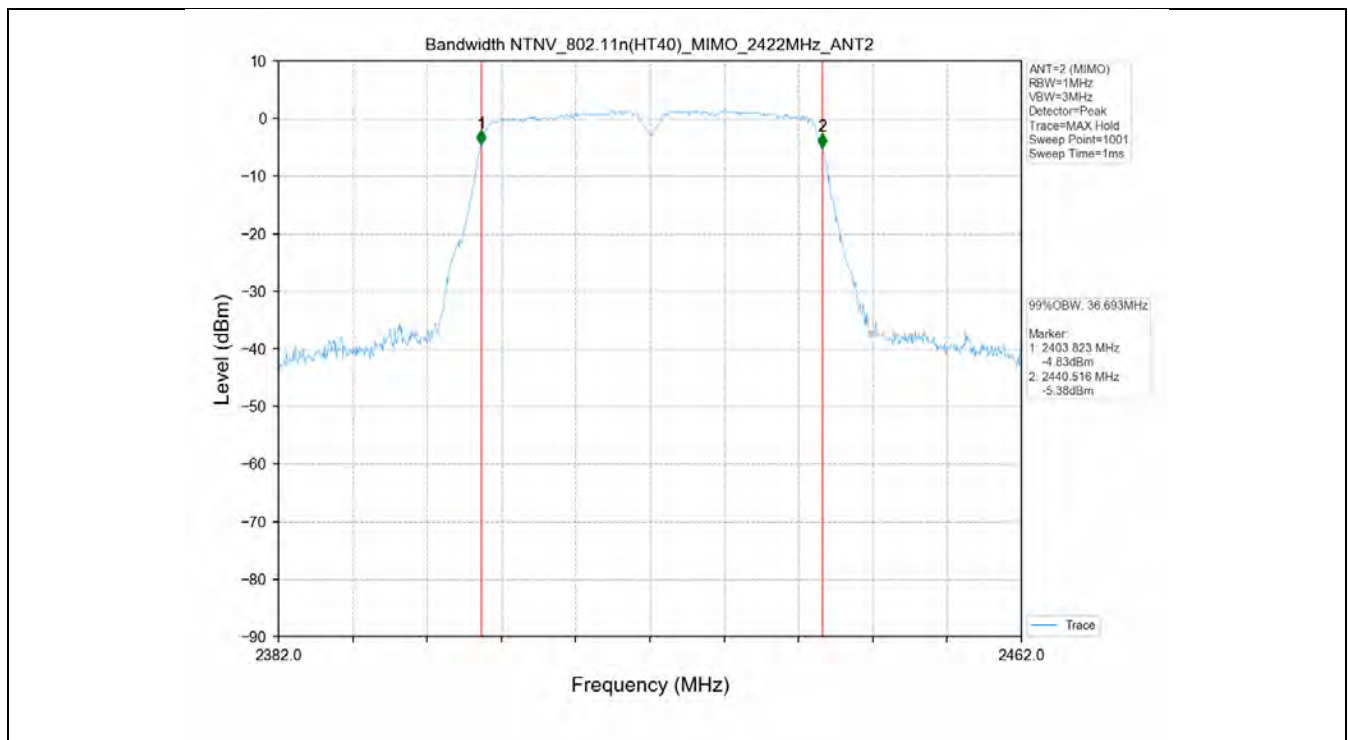
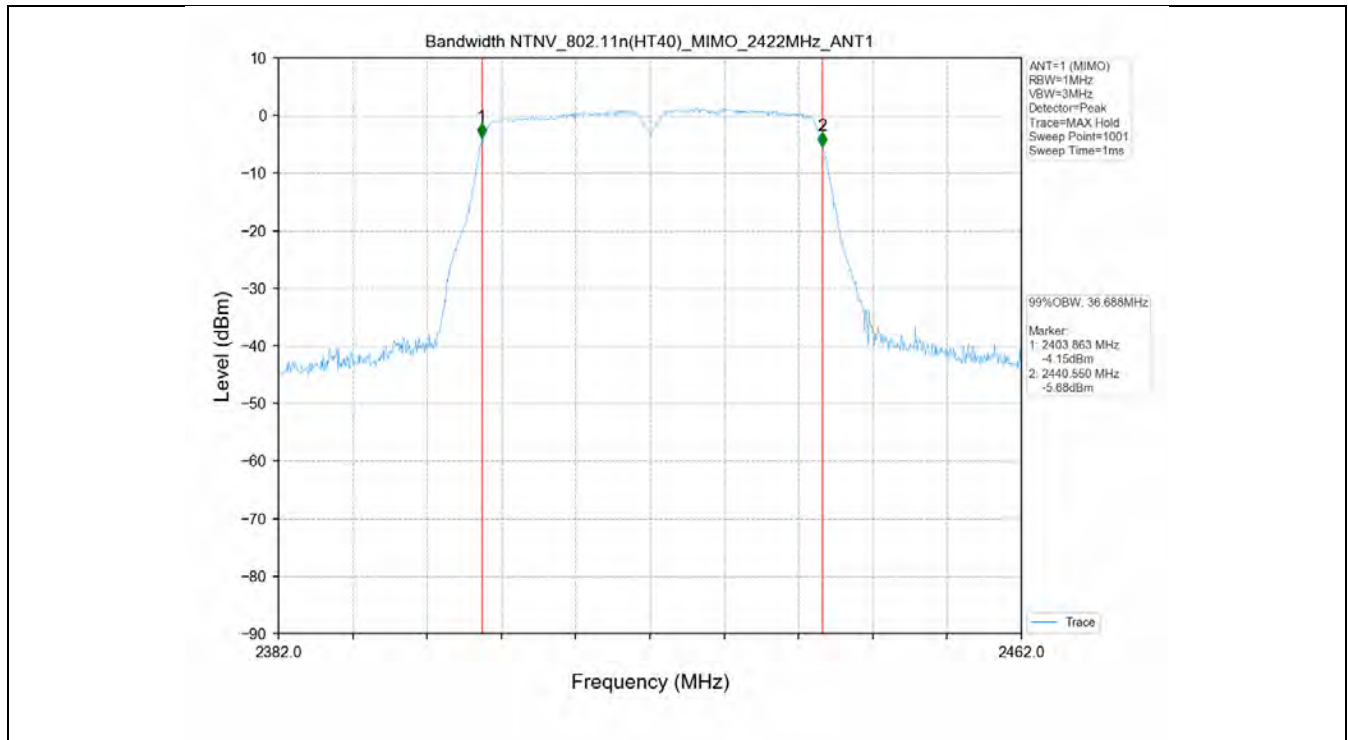


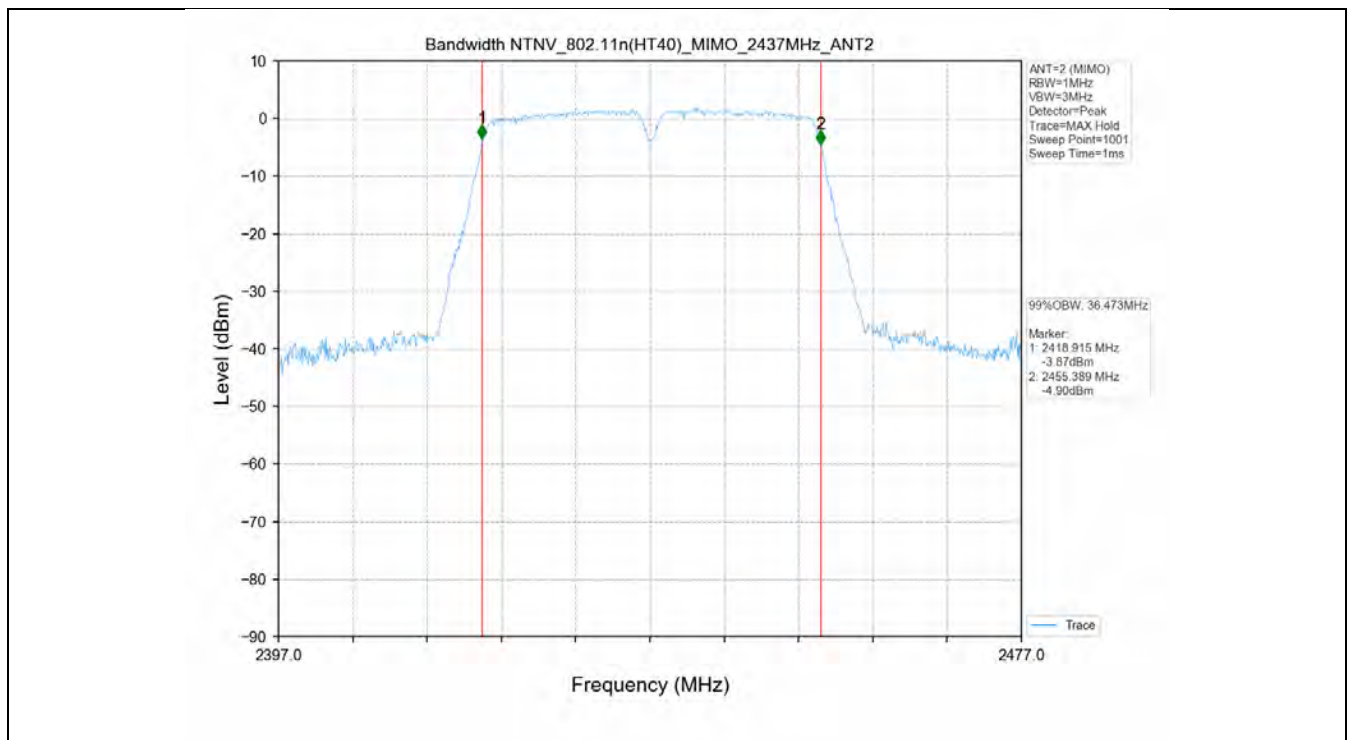
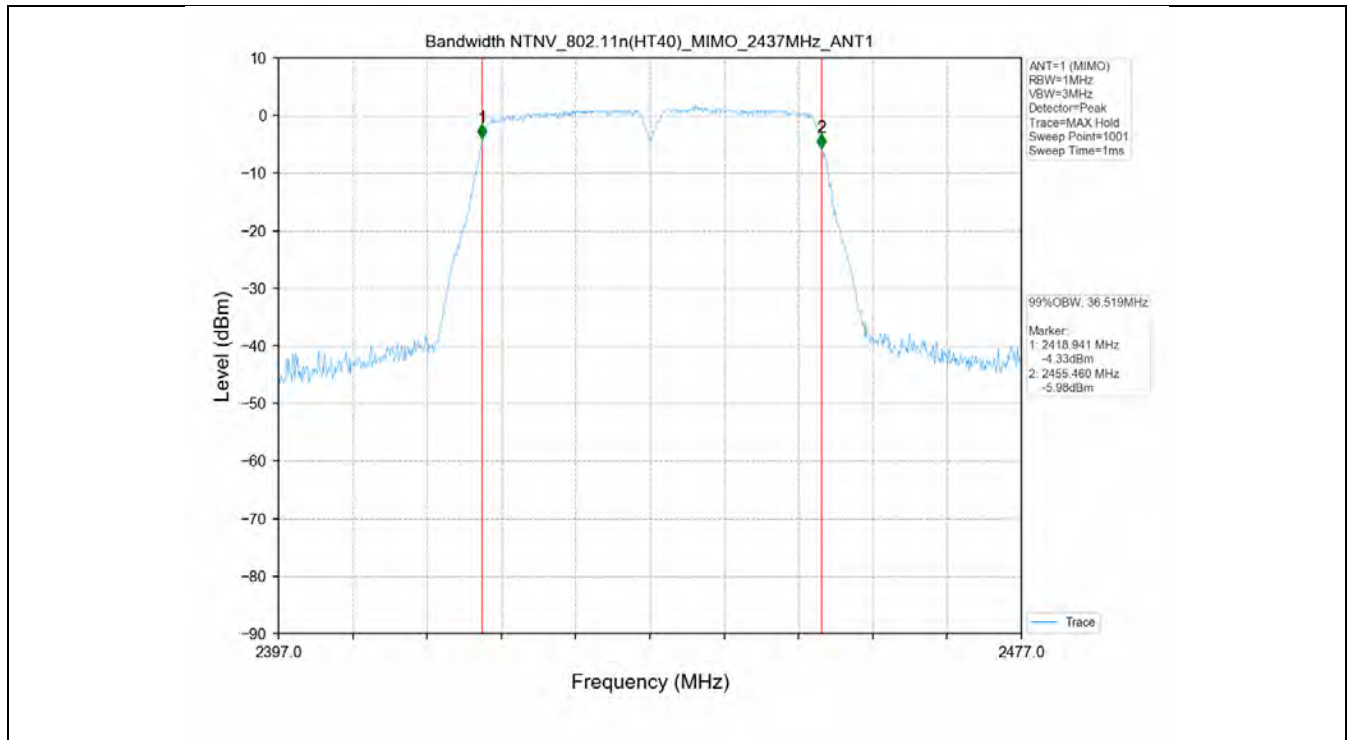


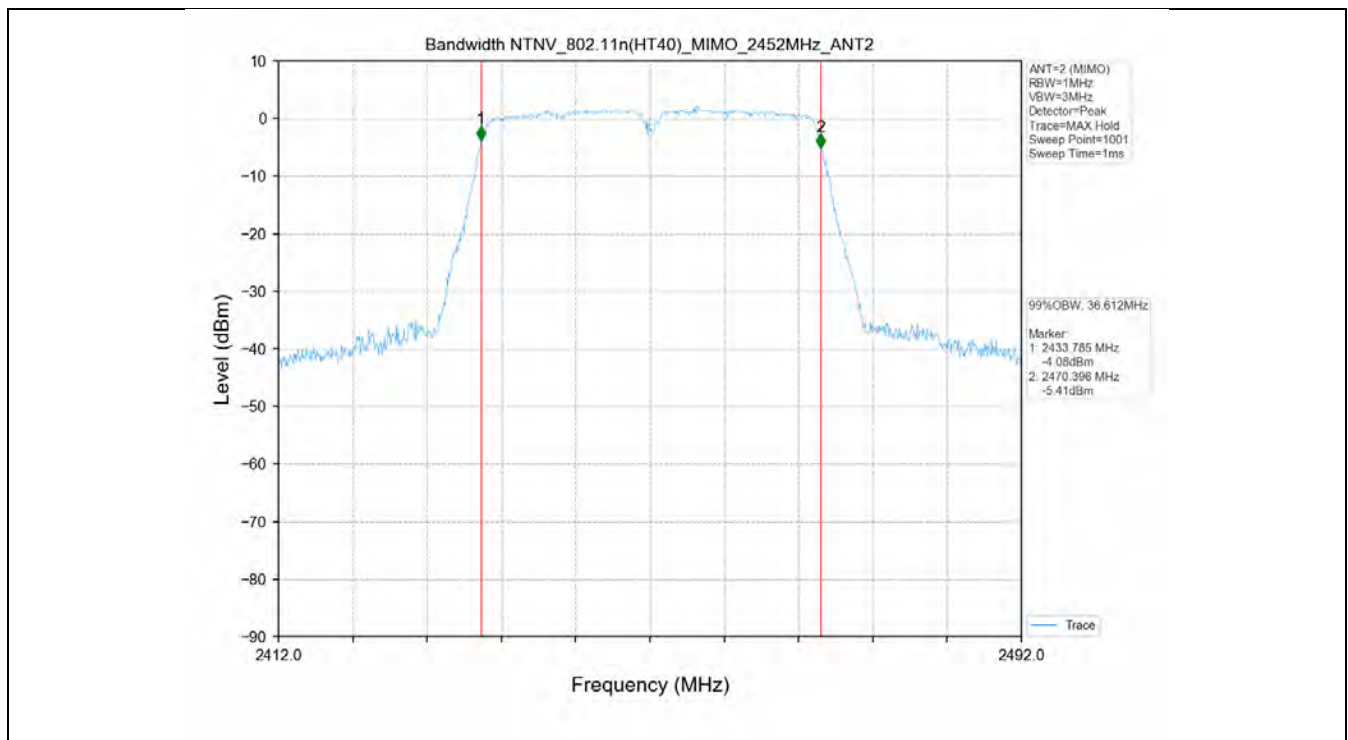
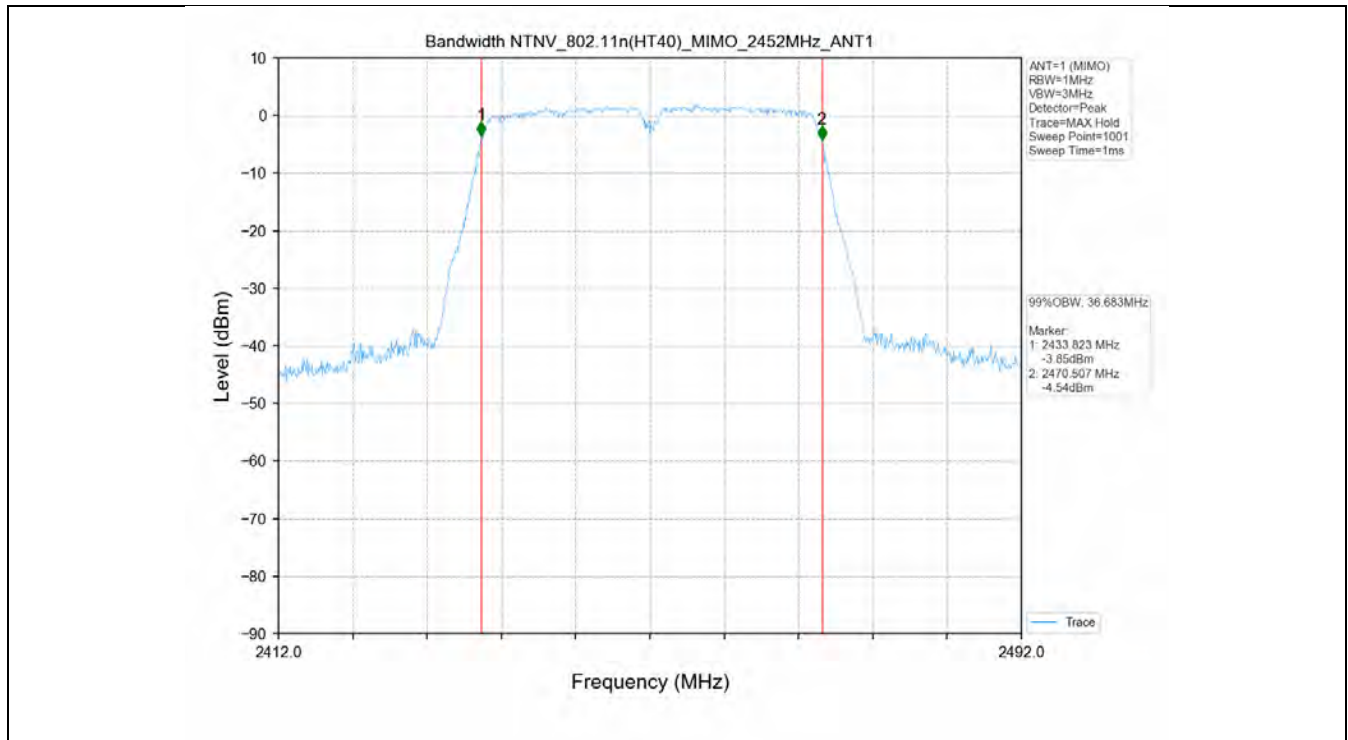












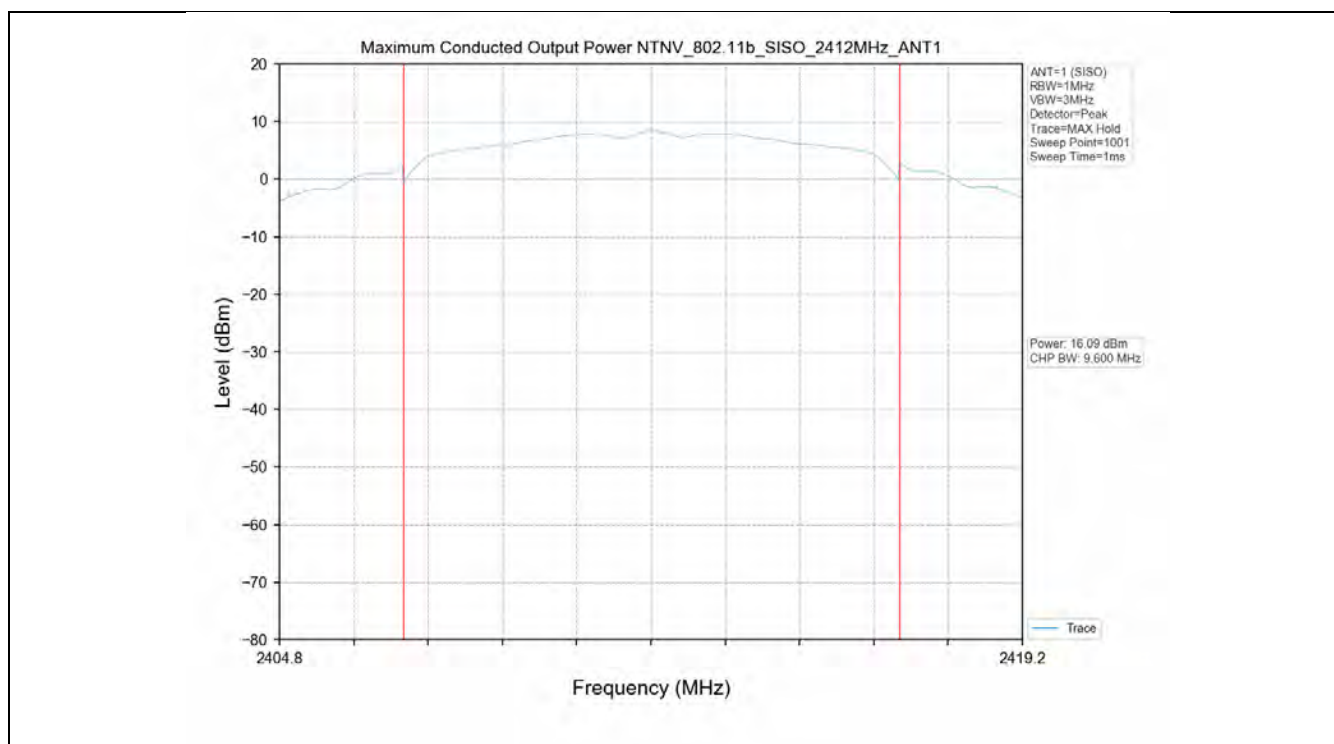


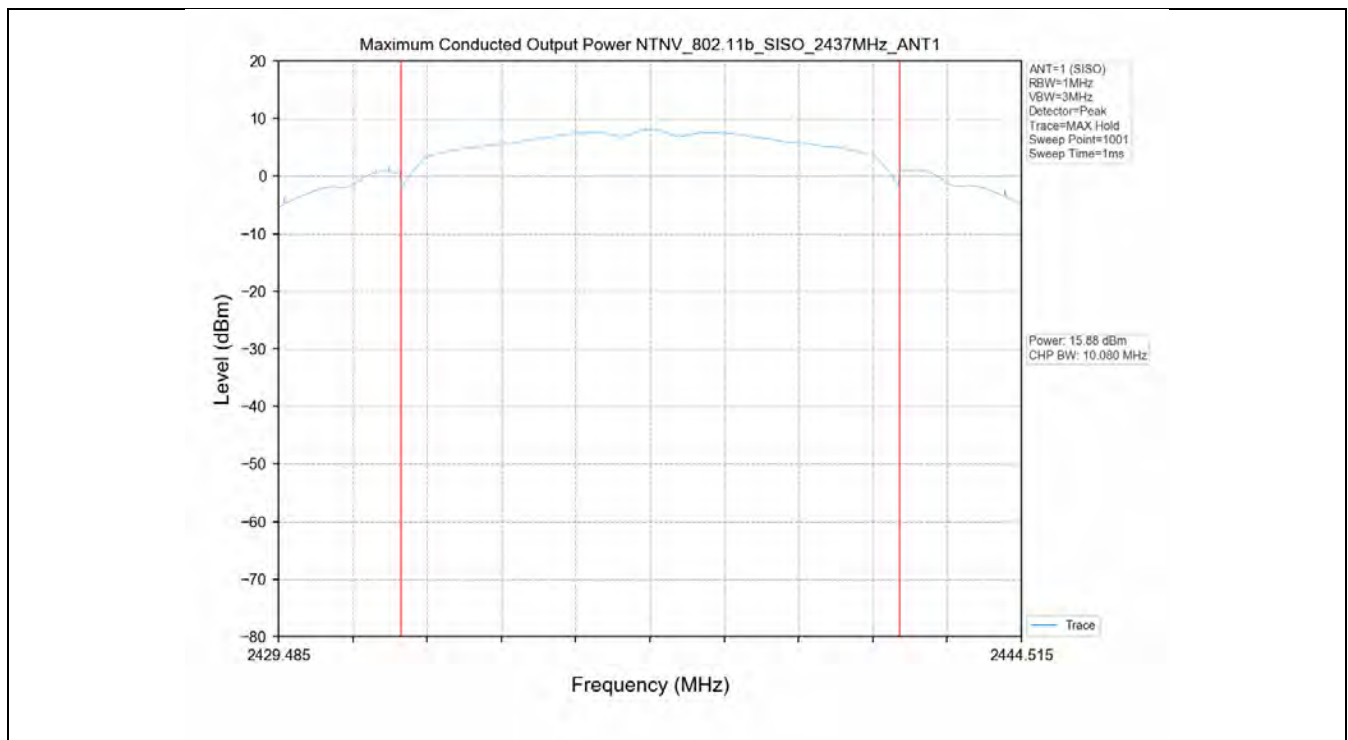
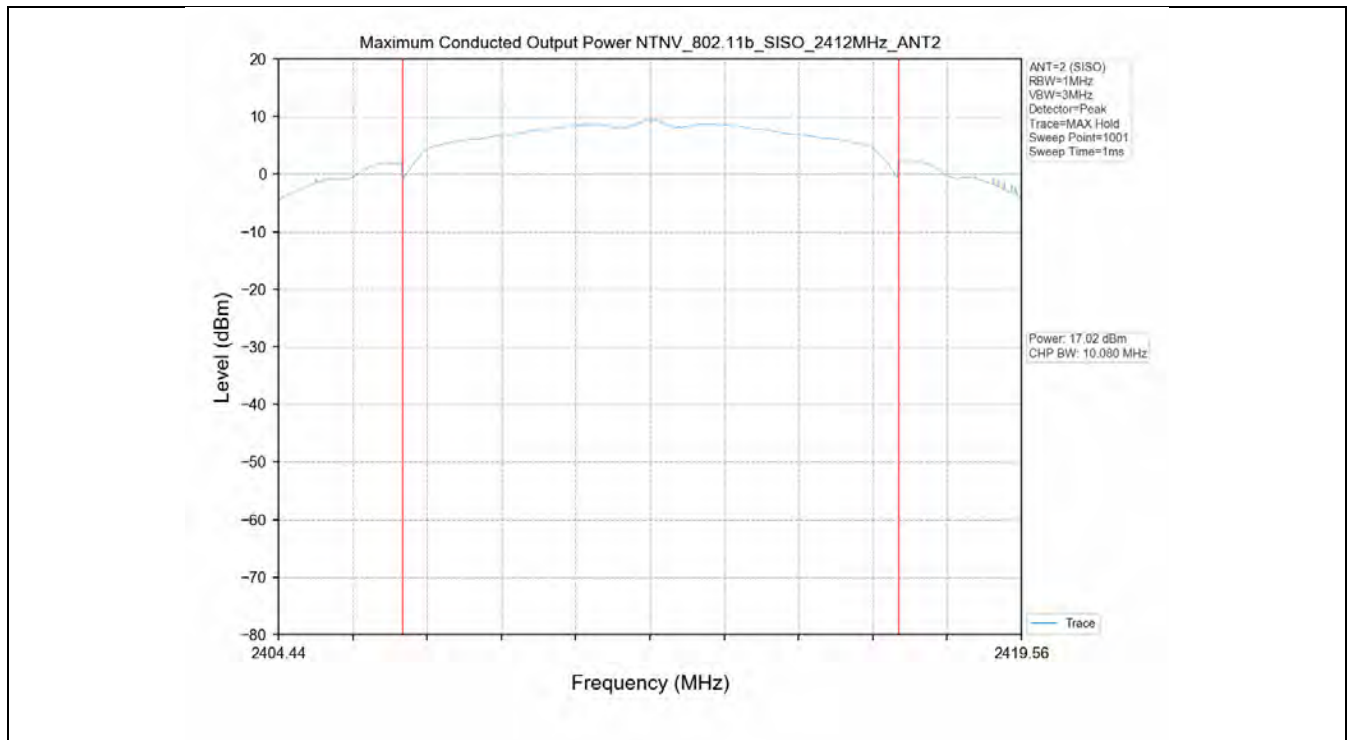
3. Maximum Conducted Output Power

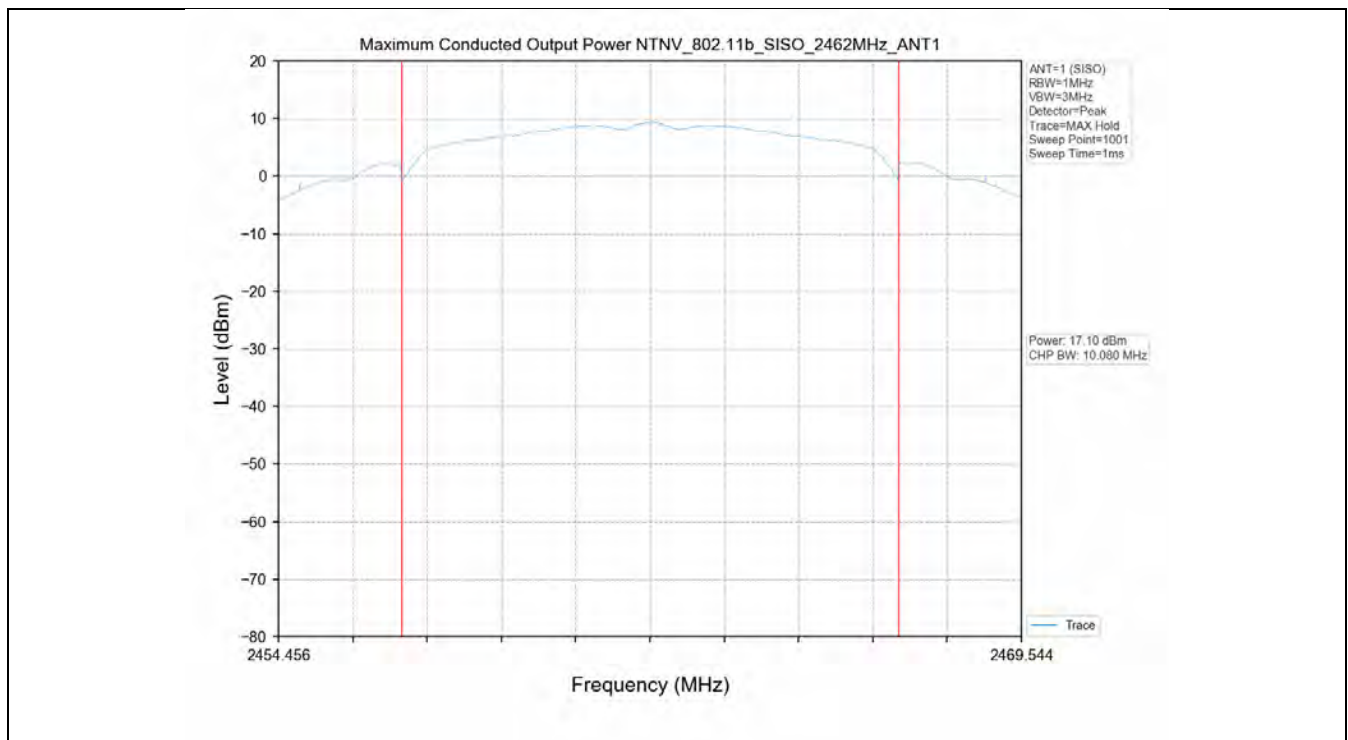
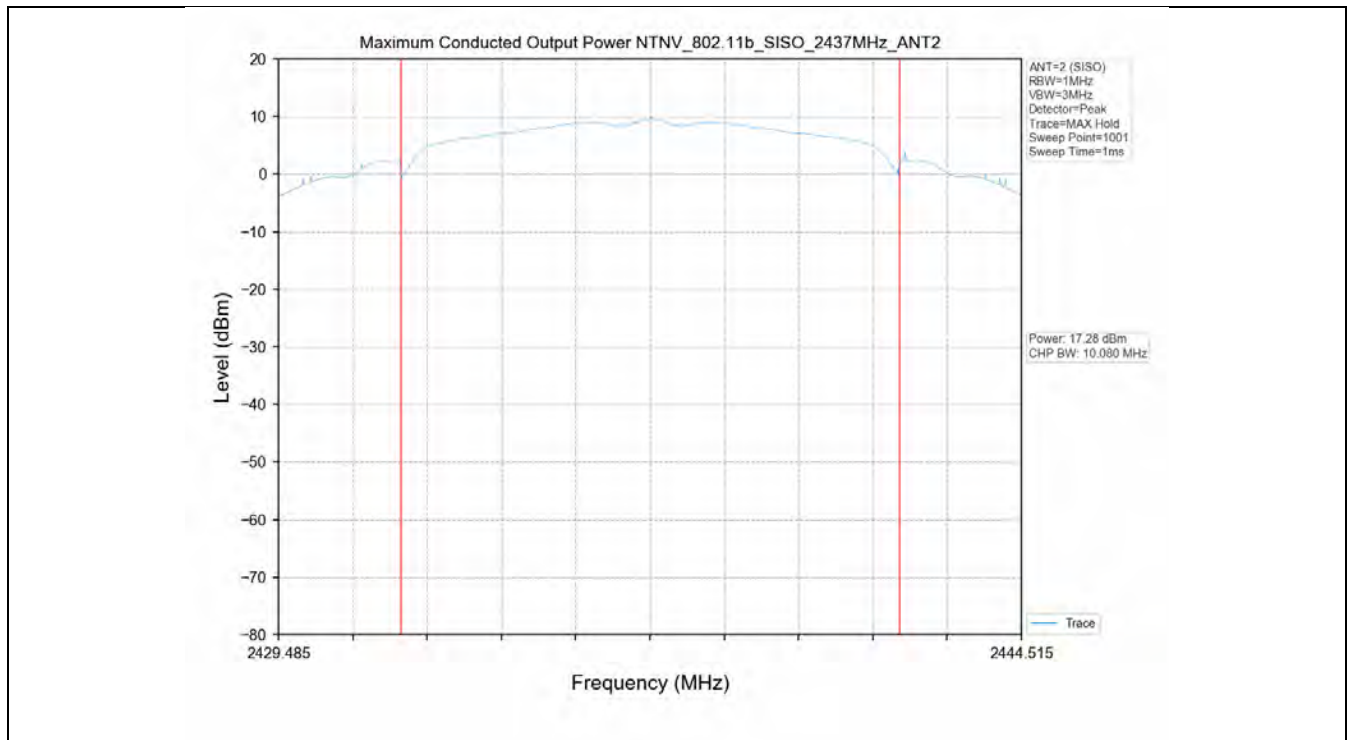
3.1 Test Result

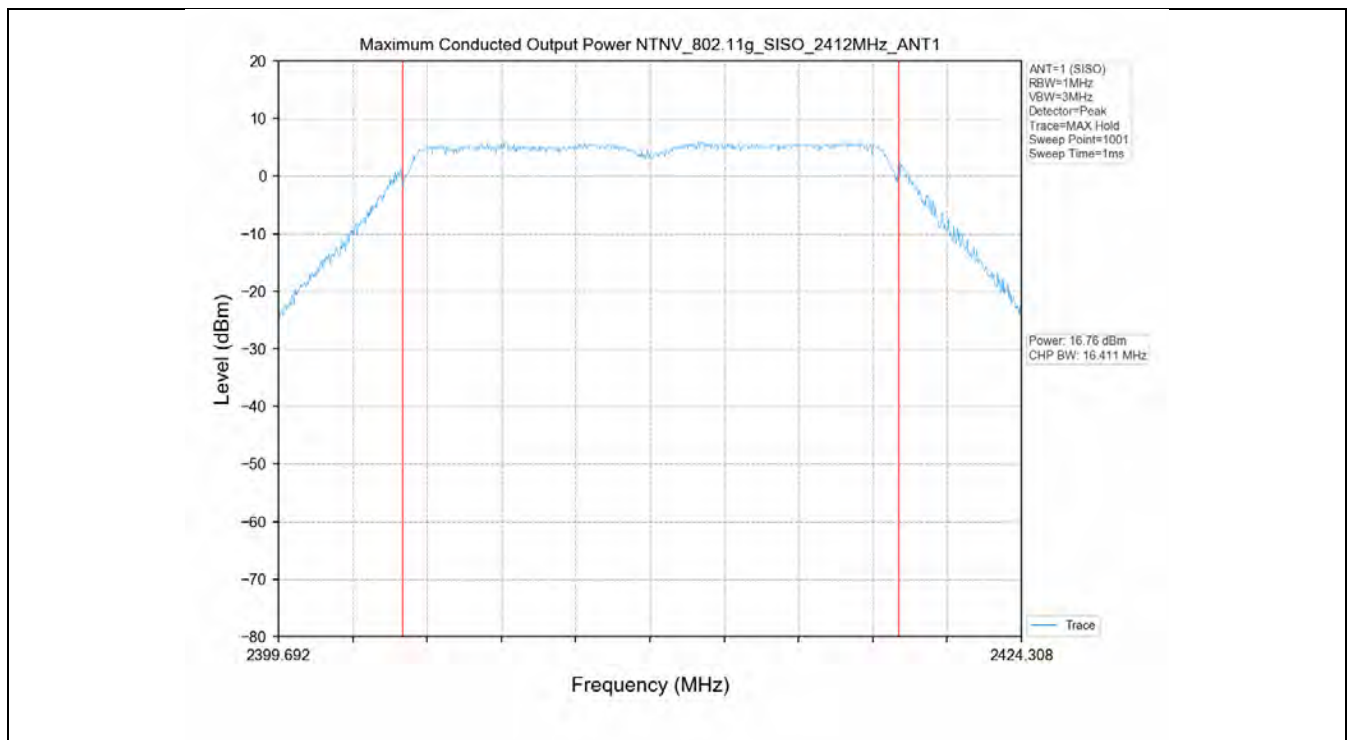
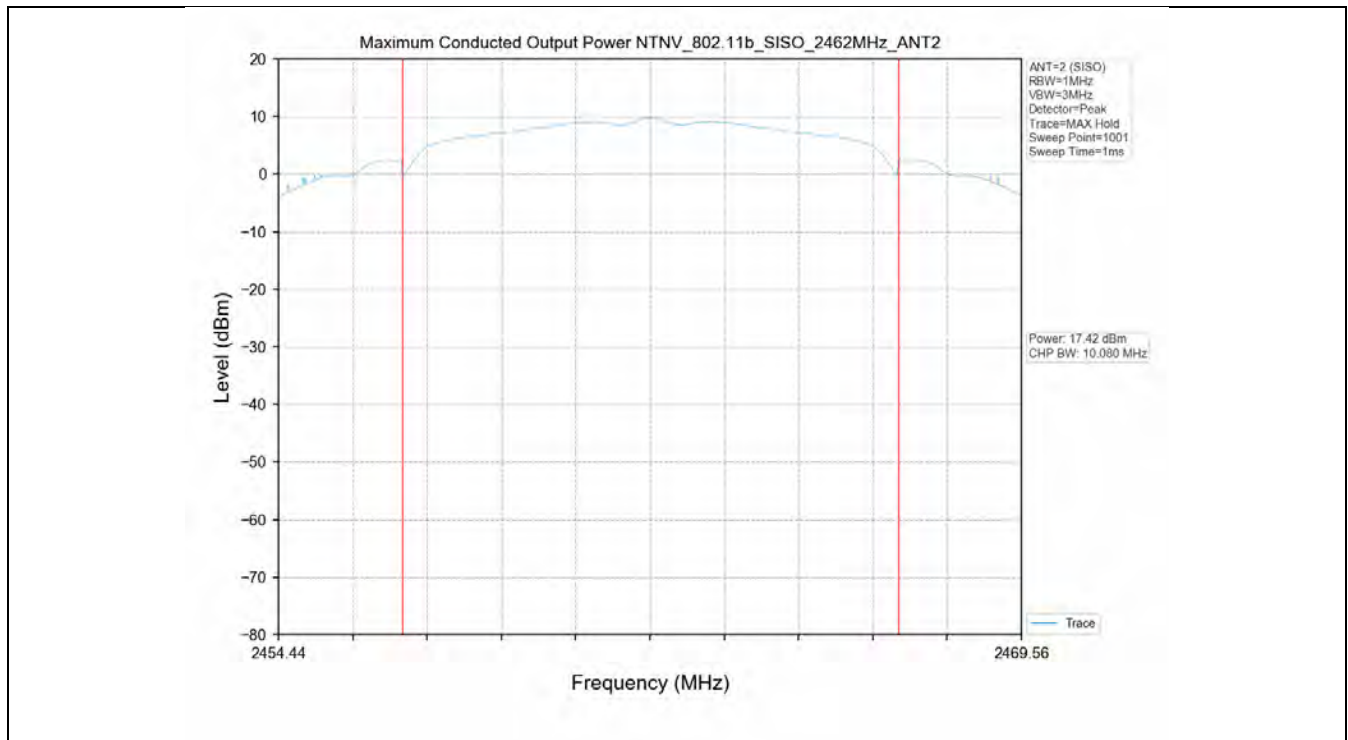
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	16.09	17.02	/	30	PASS
	2437	SISO	15.88	17.28	/	30	PASS
	2462	SISO	17.10	17.42	/	30	PASS
802.11g	2412	SISO	16.76	17.25	/	30	PASS
	2437	SISO	17.00	17.00	/	30	PASS
	2462	SISO	17.32	17.36	/	30	PASS
802.11n(HT20)	2412	MIMO	15.99	16.58	19.31	30	PASS
	2437	MIMO	16.72	16.96	19.85	30	PASS
	2462	MIMO	16.96	16.97	19.98	30	PASS
802.11n(HT40)	2422	MIMO	15.14	15.55	18.36	30	PASS
	2437	MIMO	15.43	15.17	18.31	30	PASS
	2452	MIMO	15.73	15.94	18.85	30	PASS

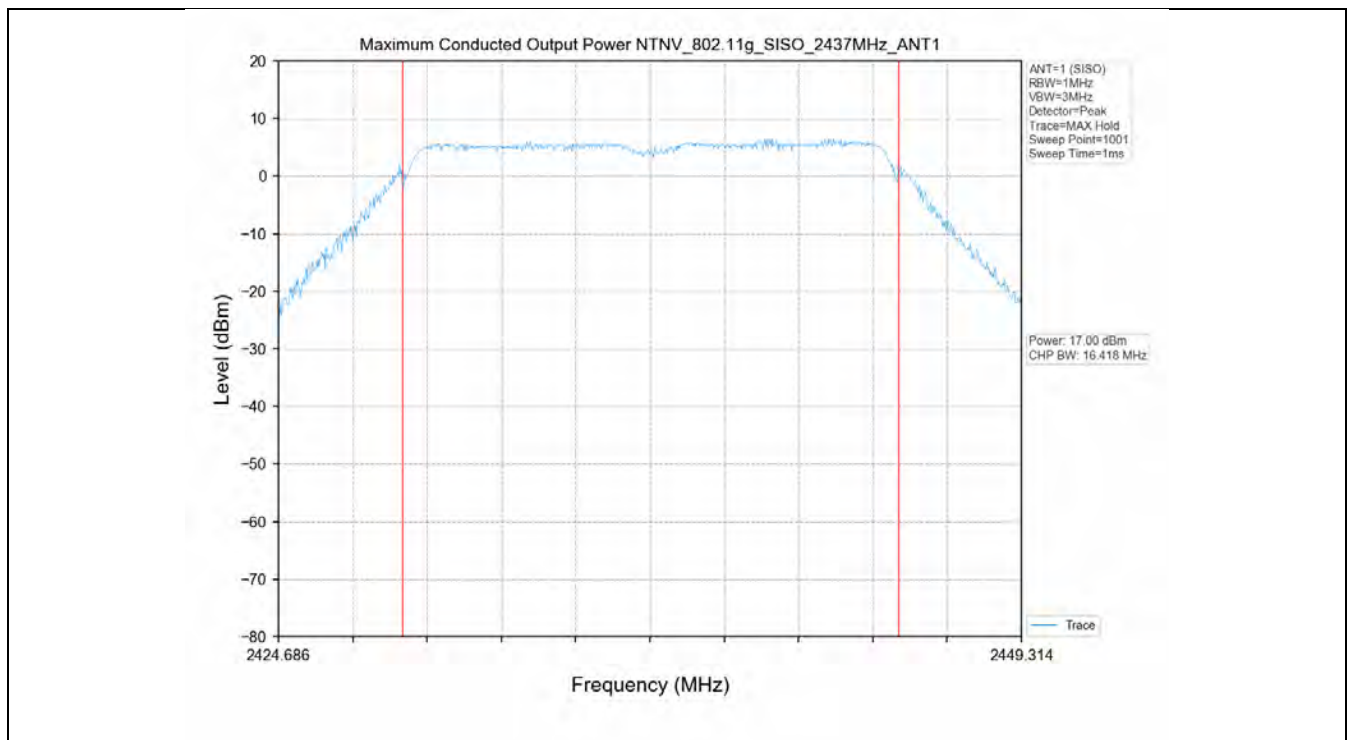
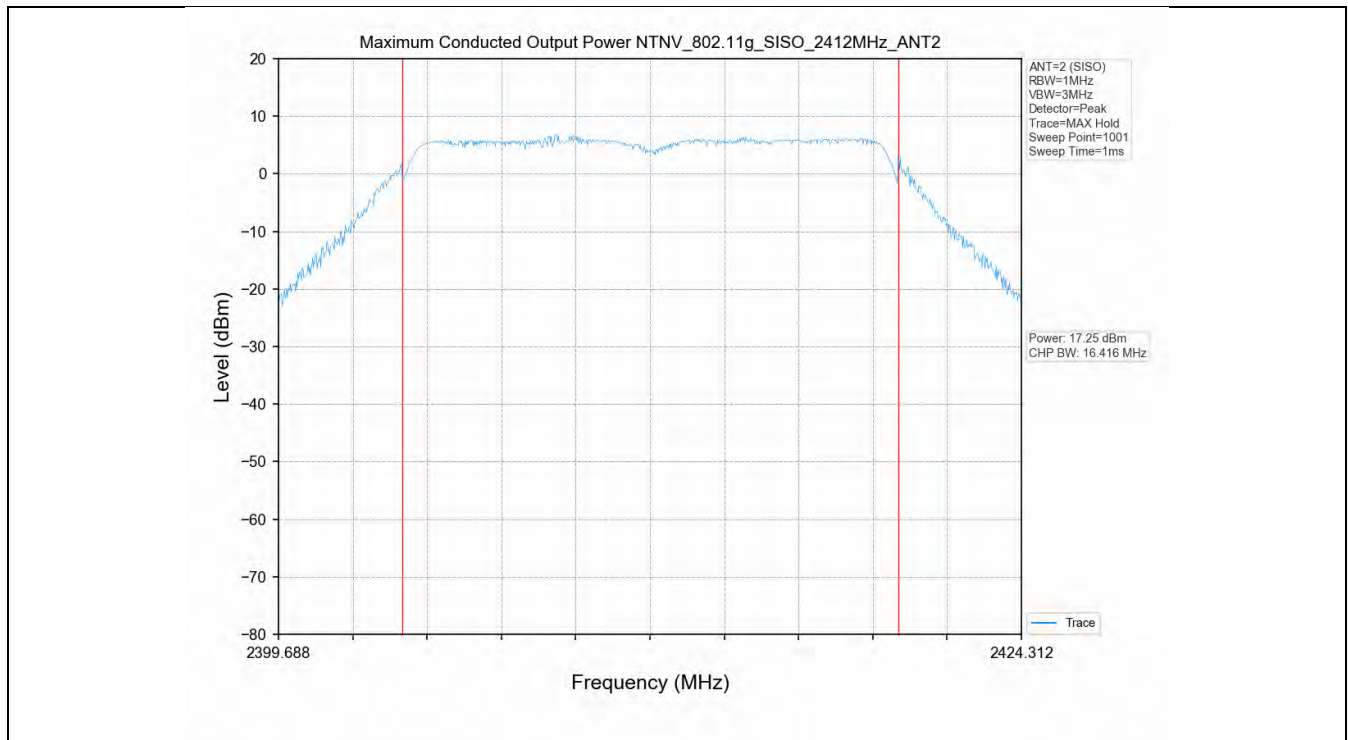
3.2 Test Graph

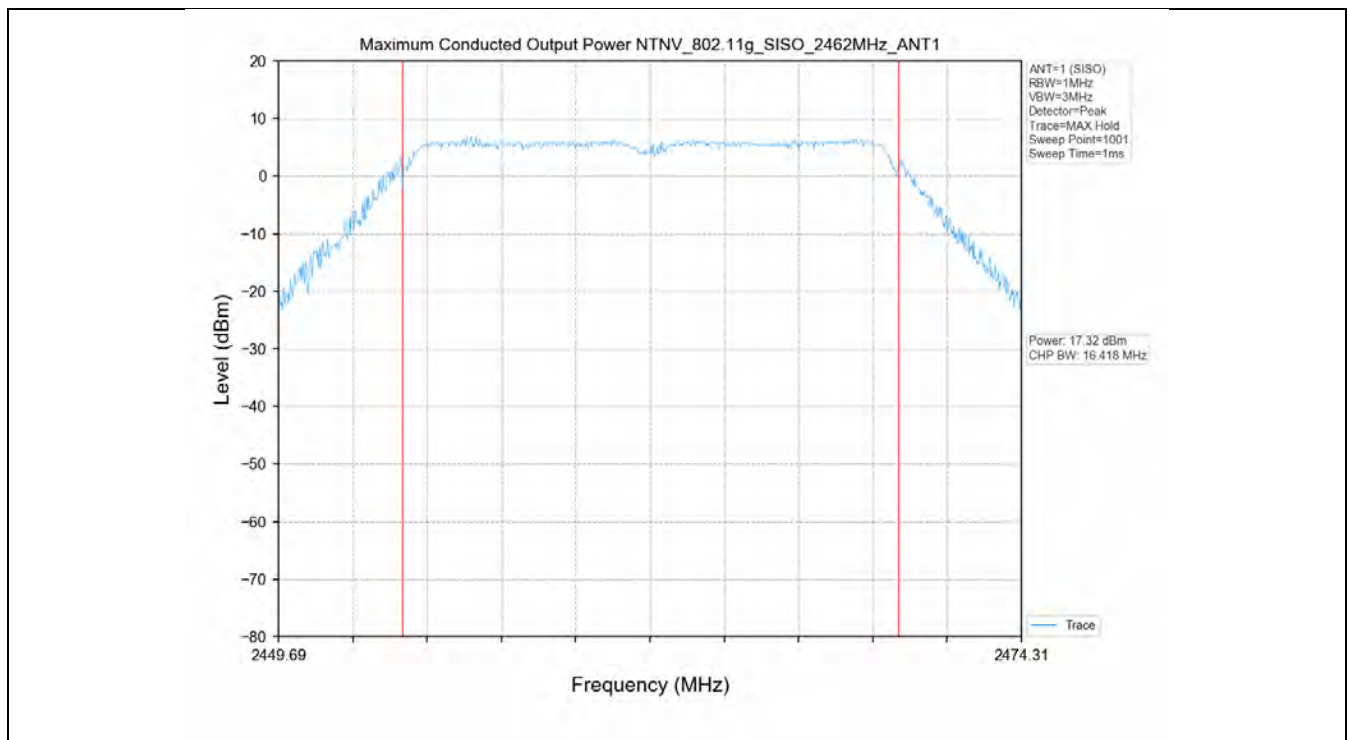
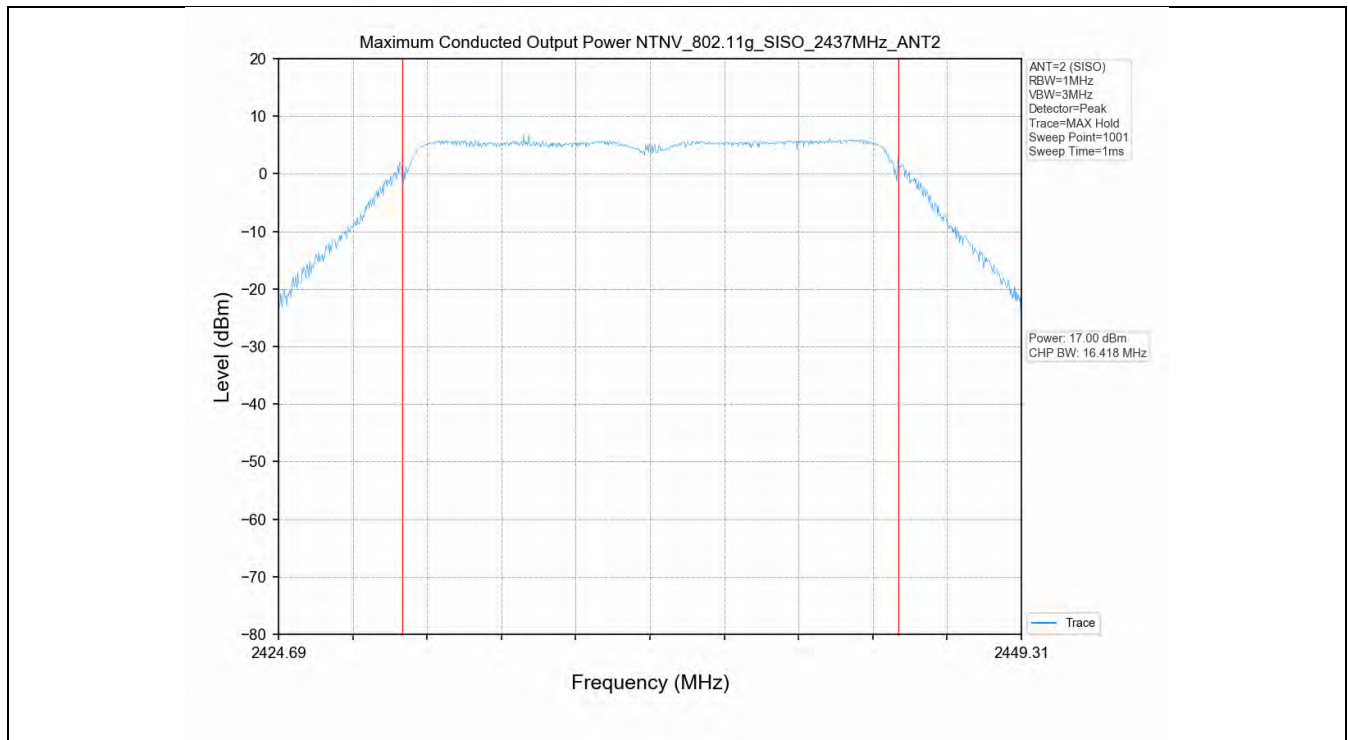


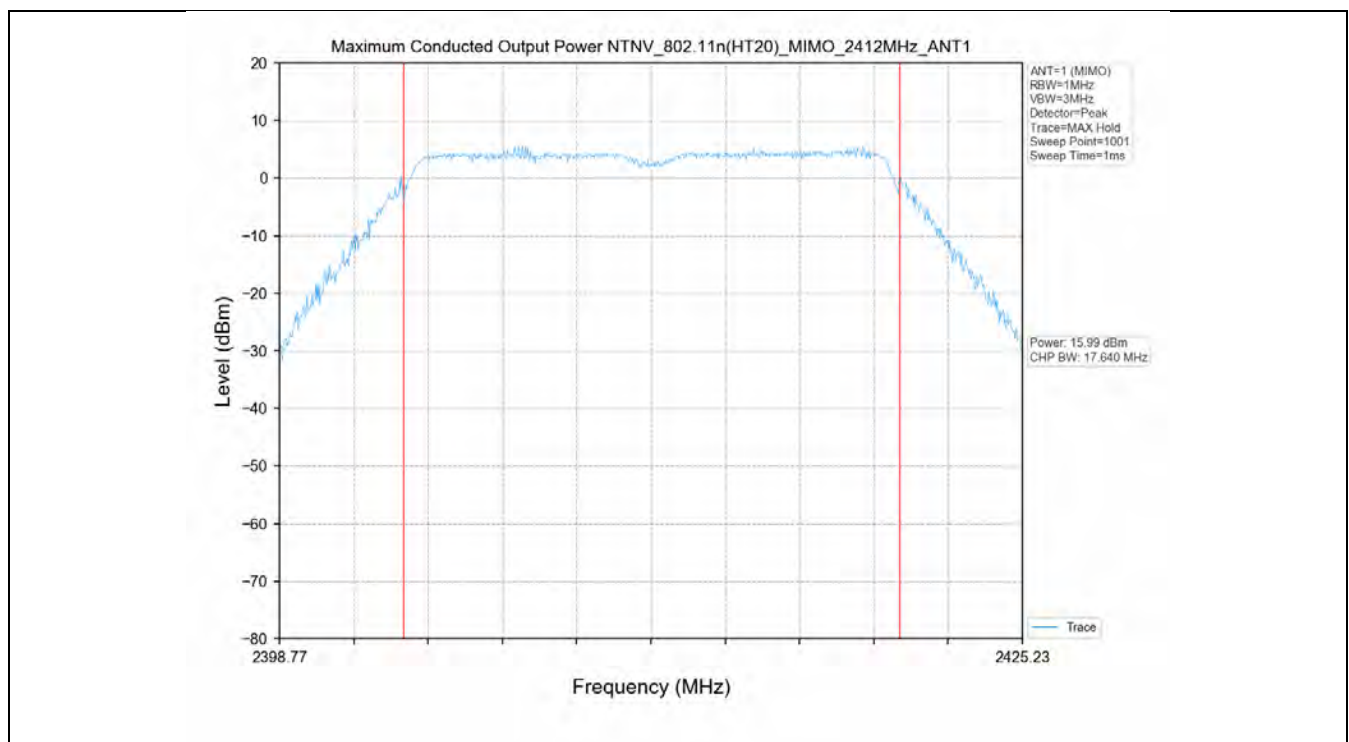
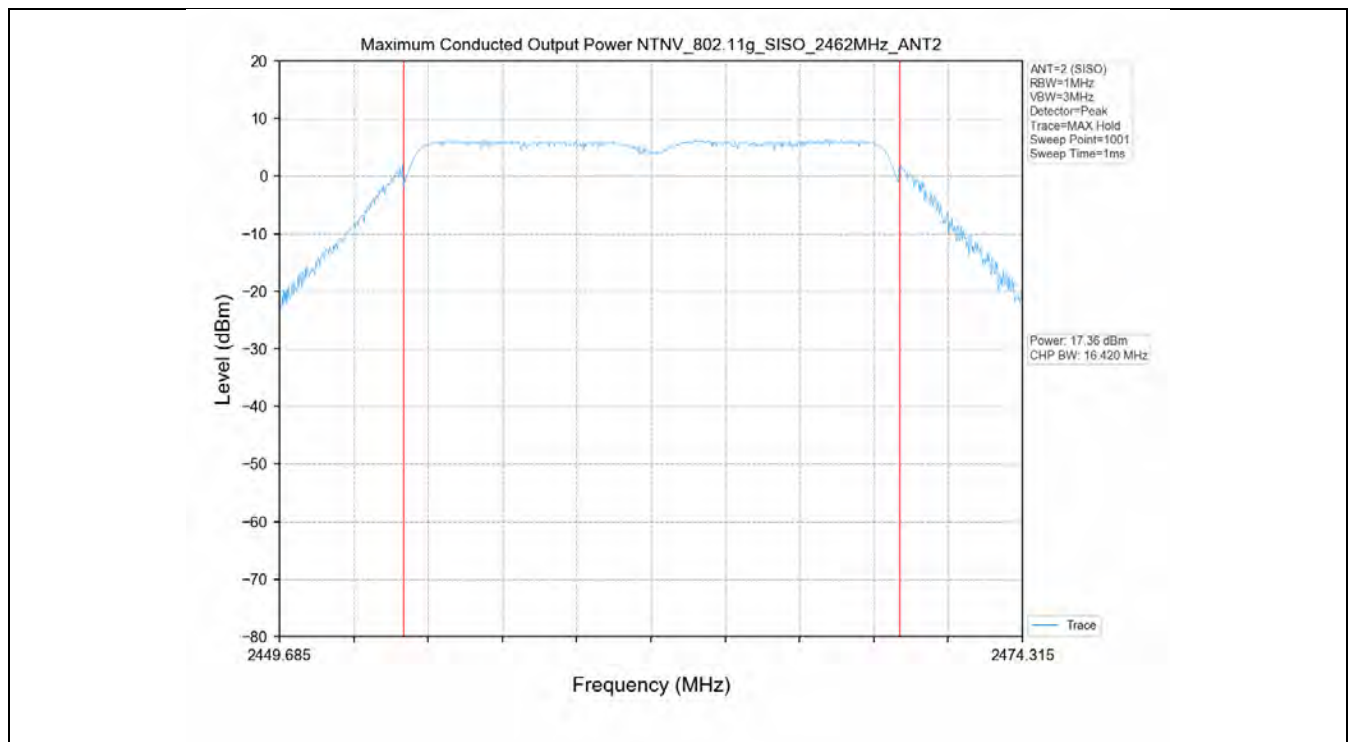


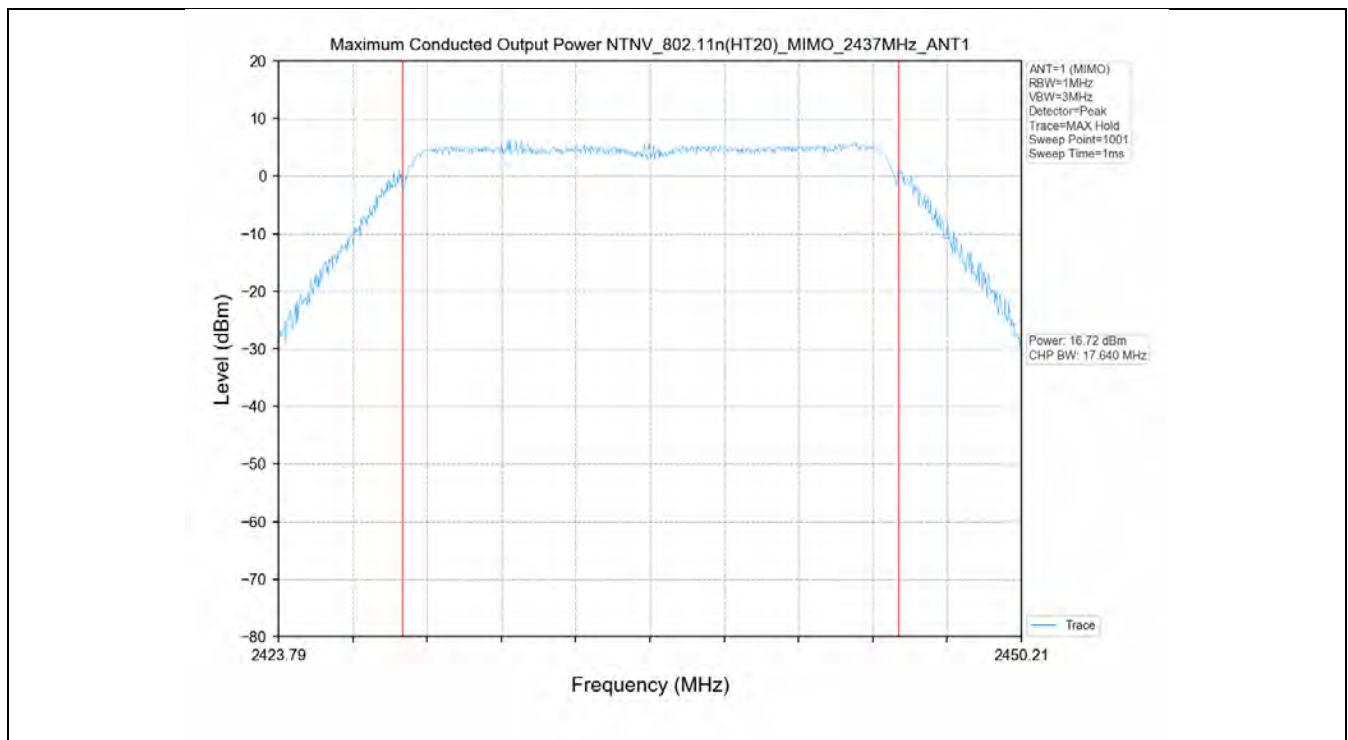
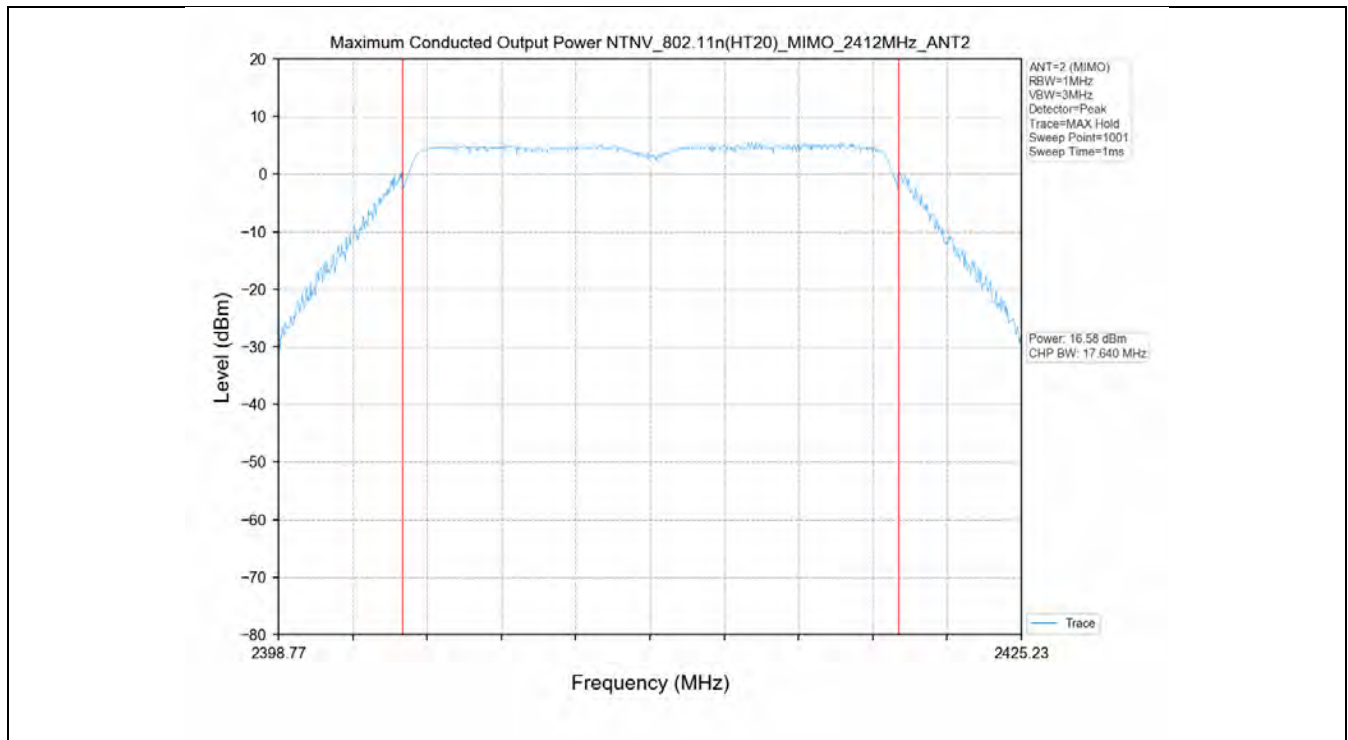


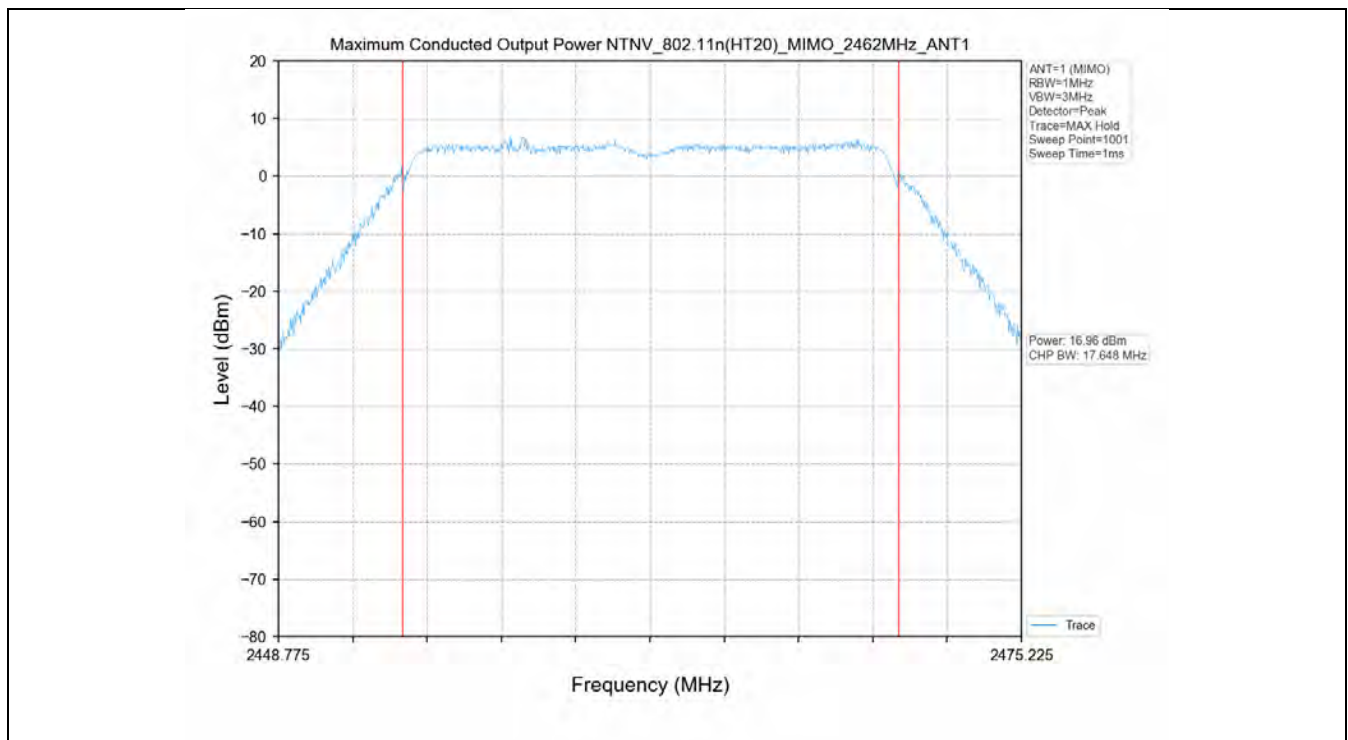
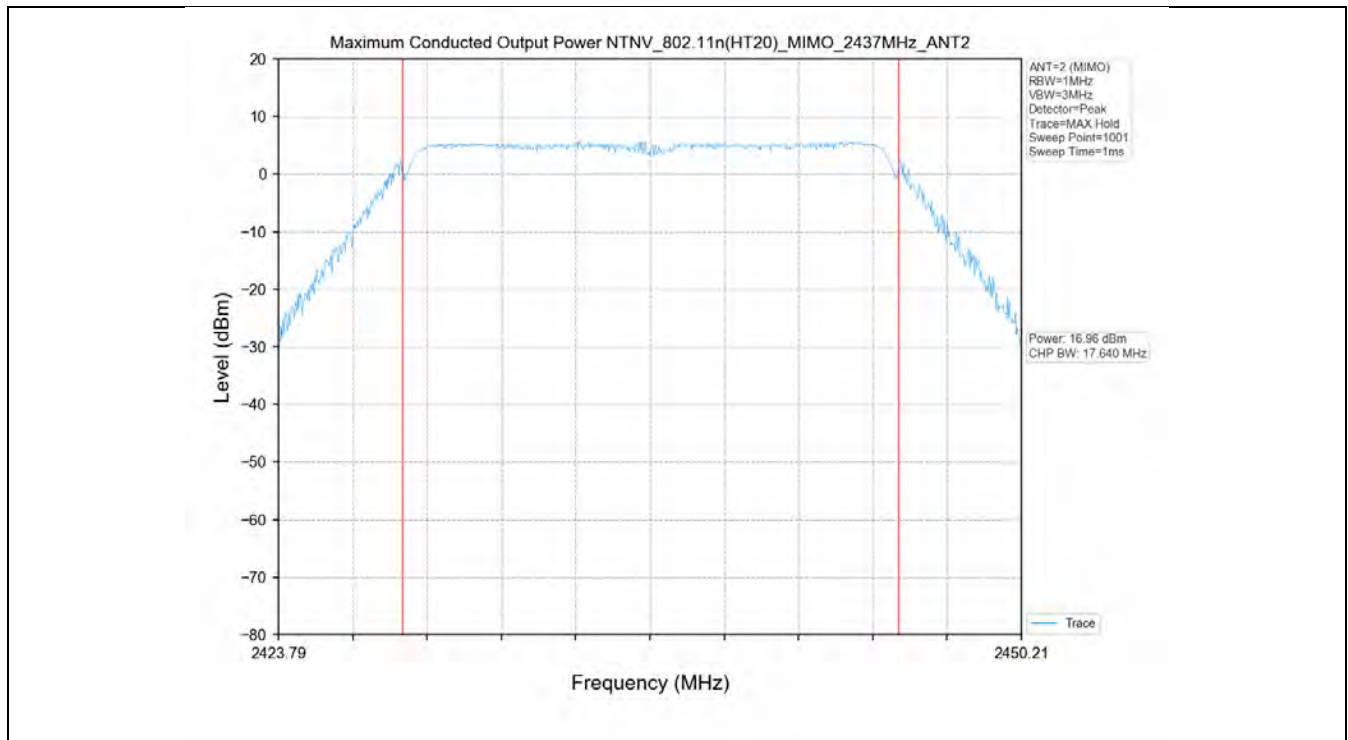


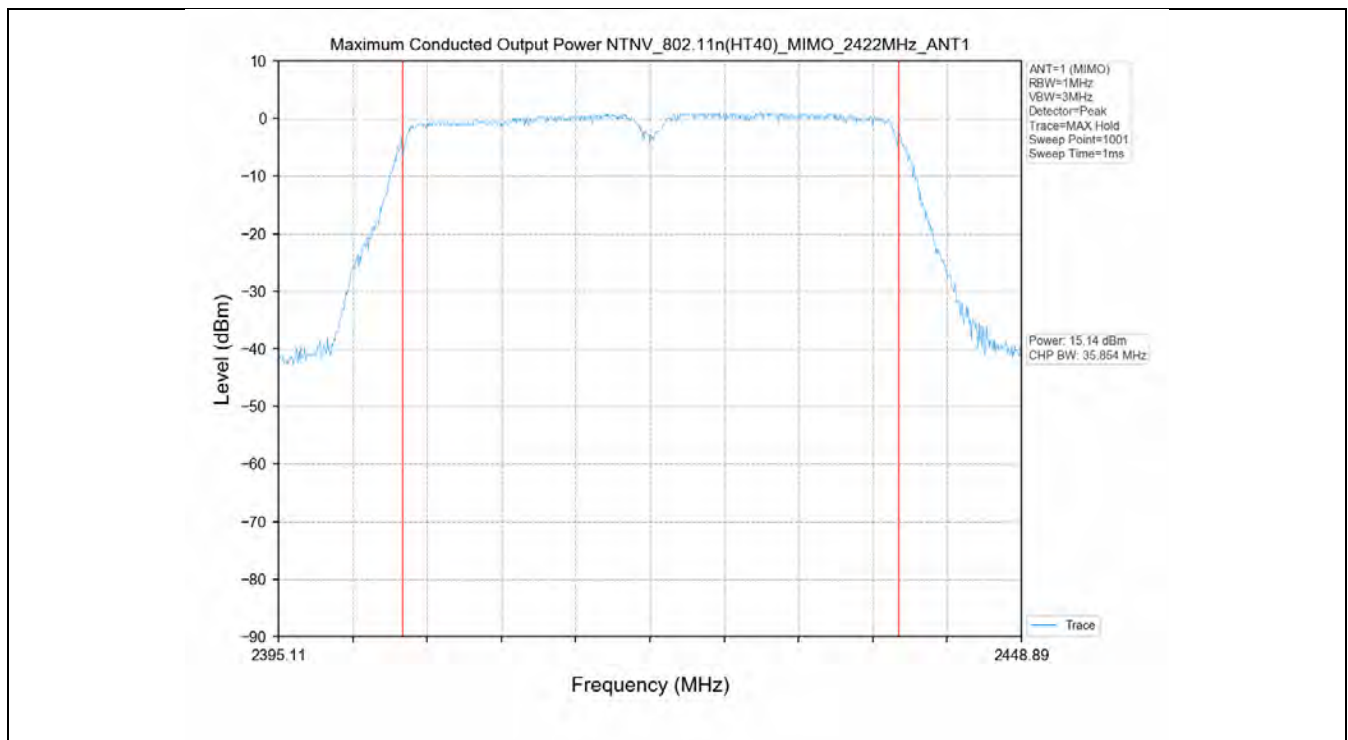
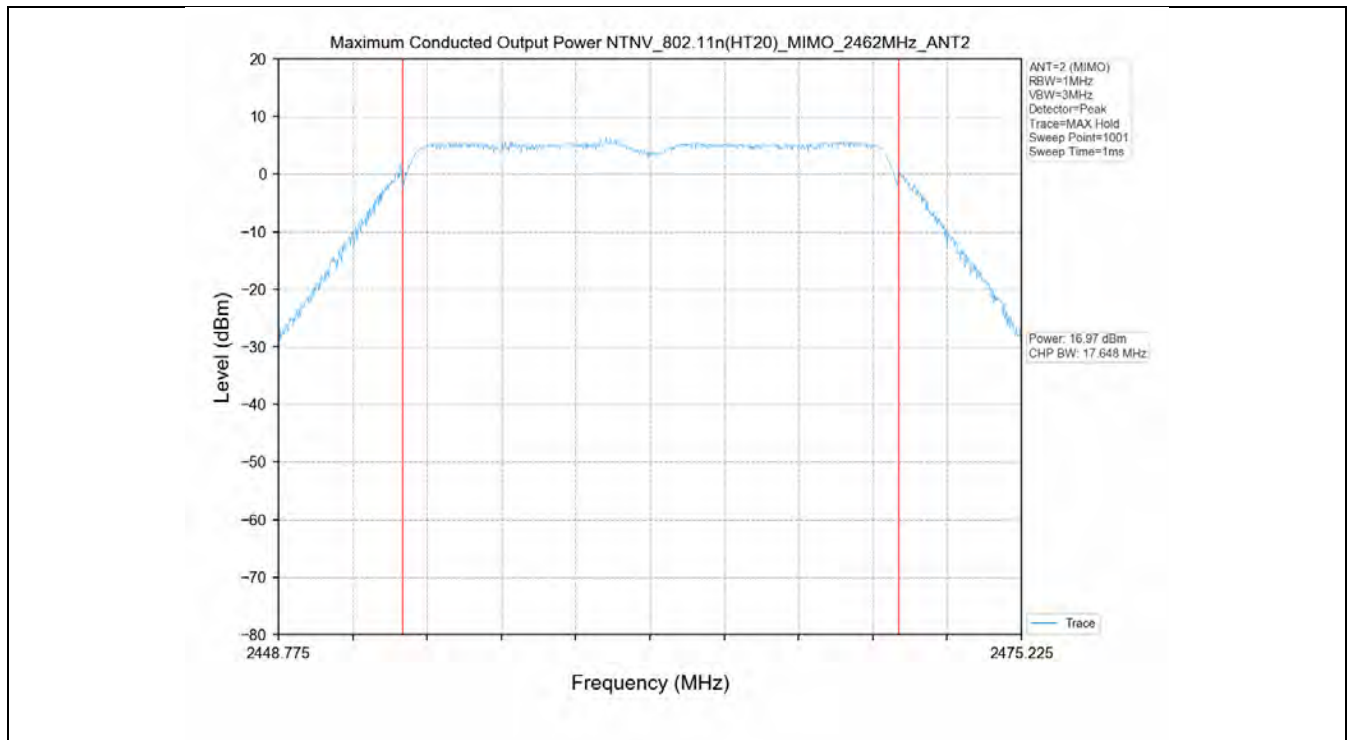


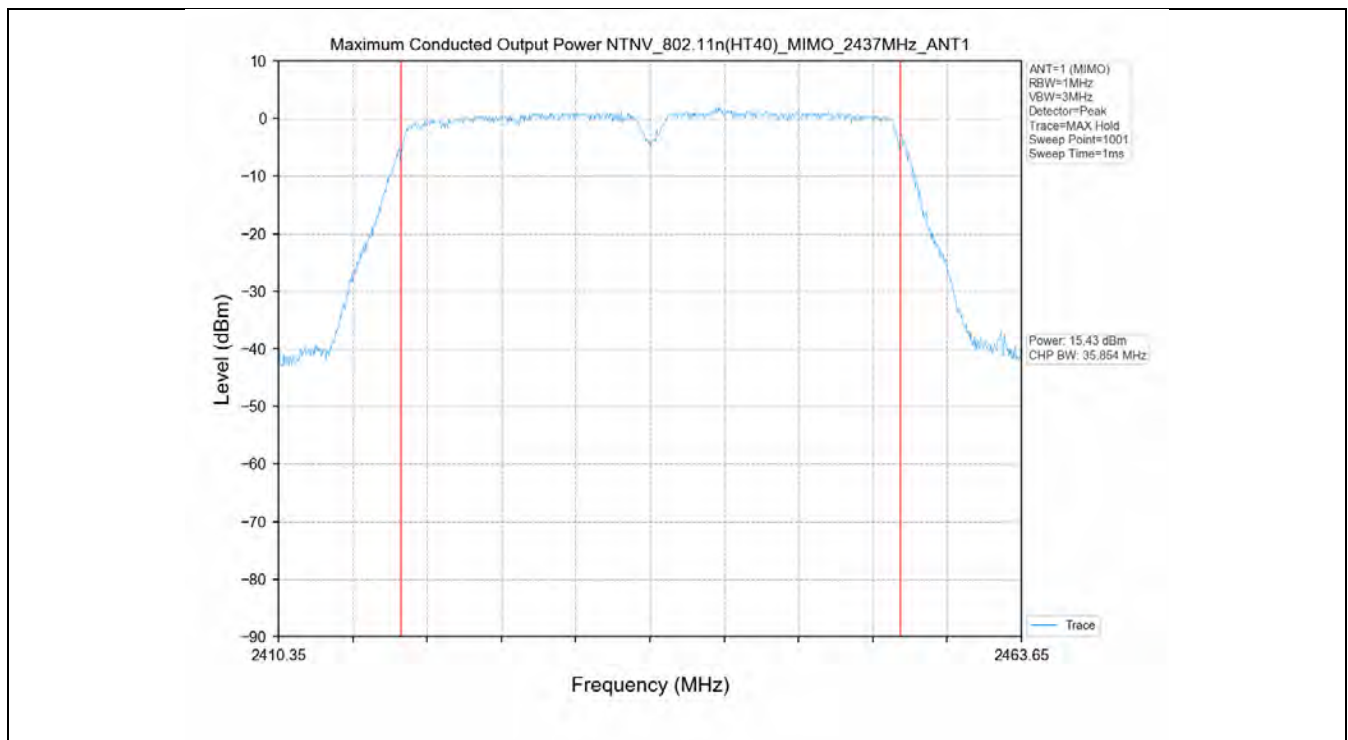
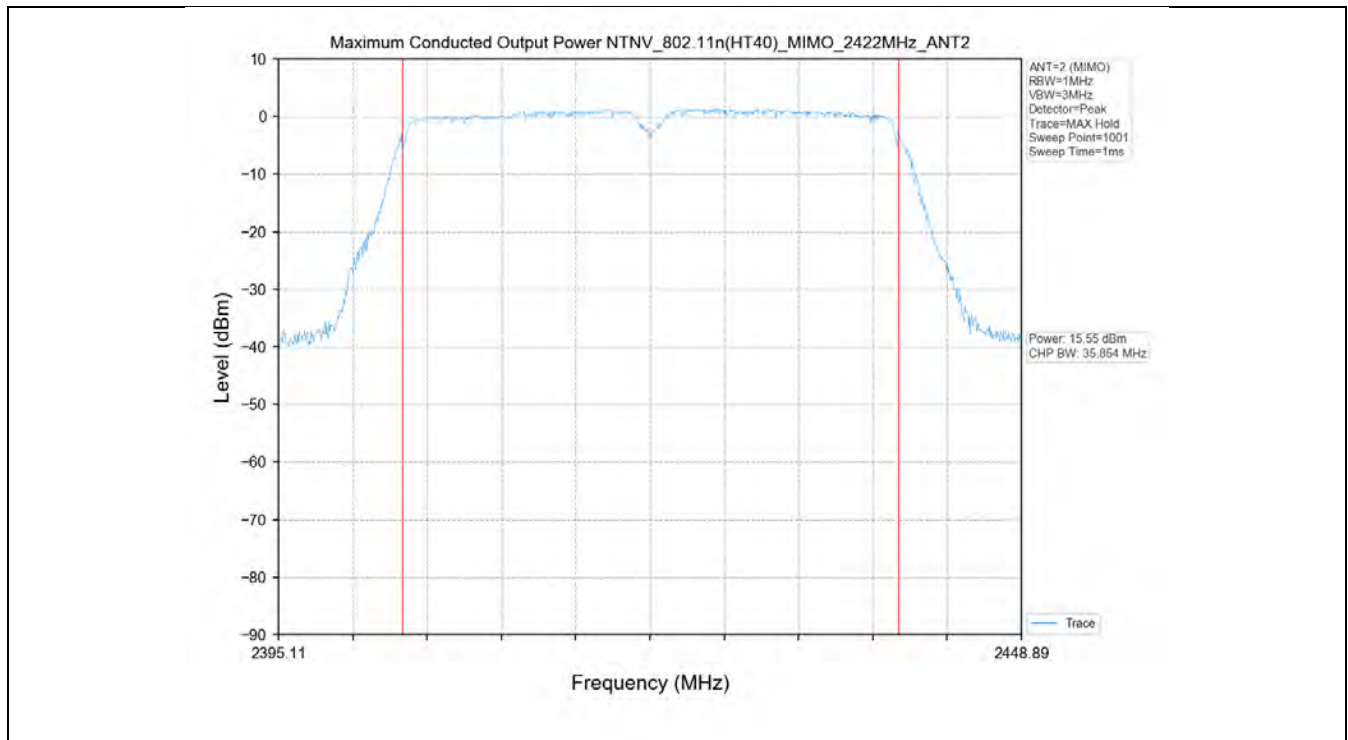


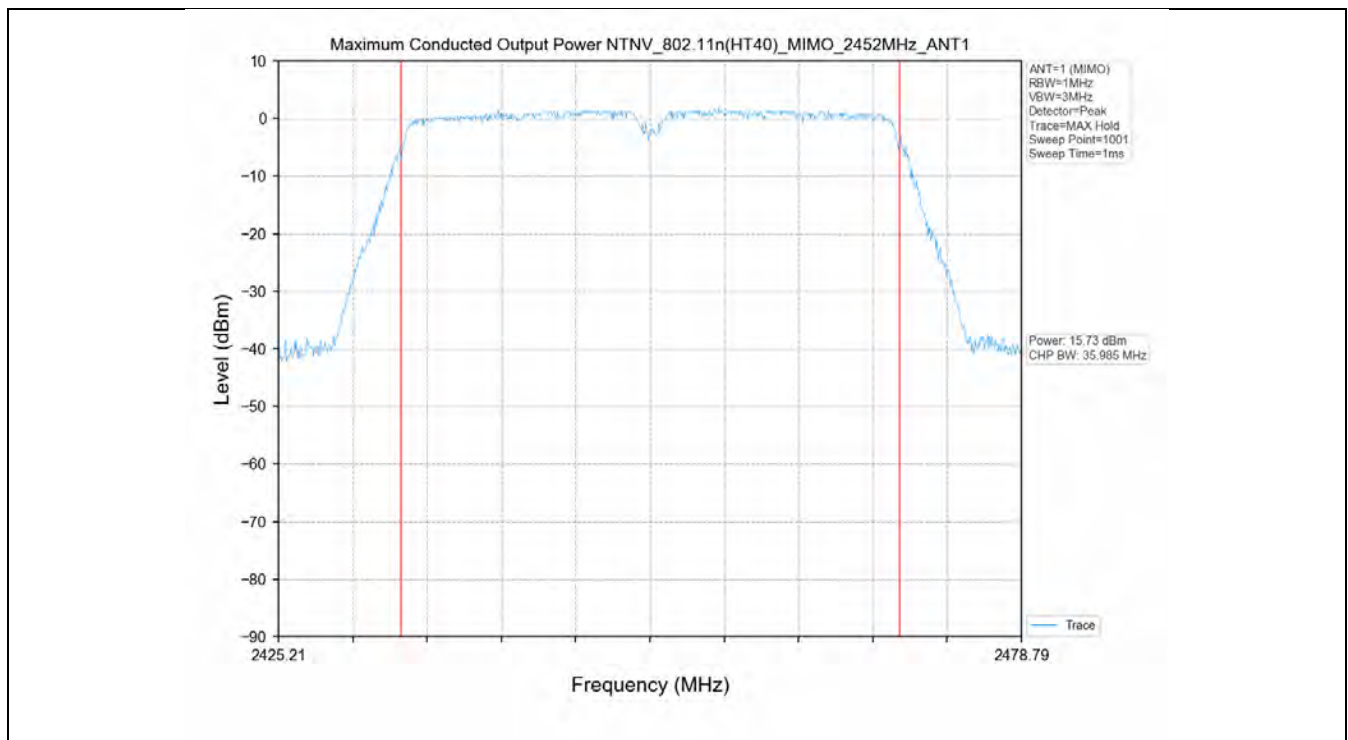
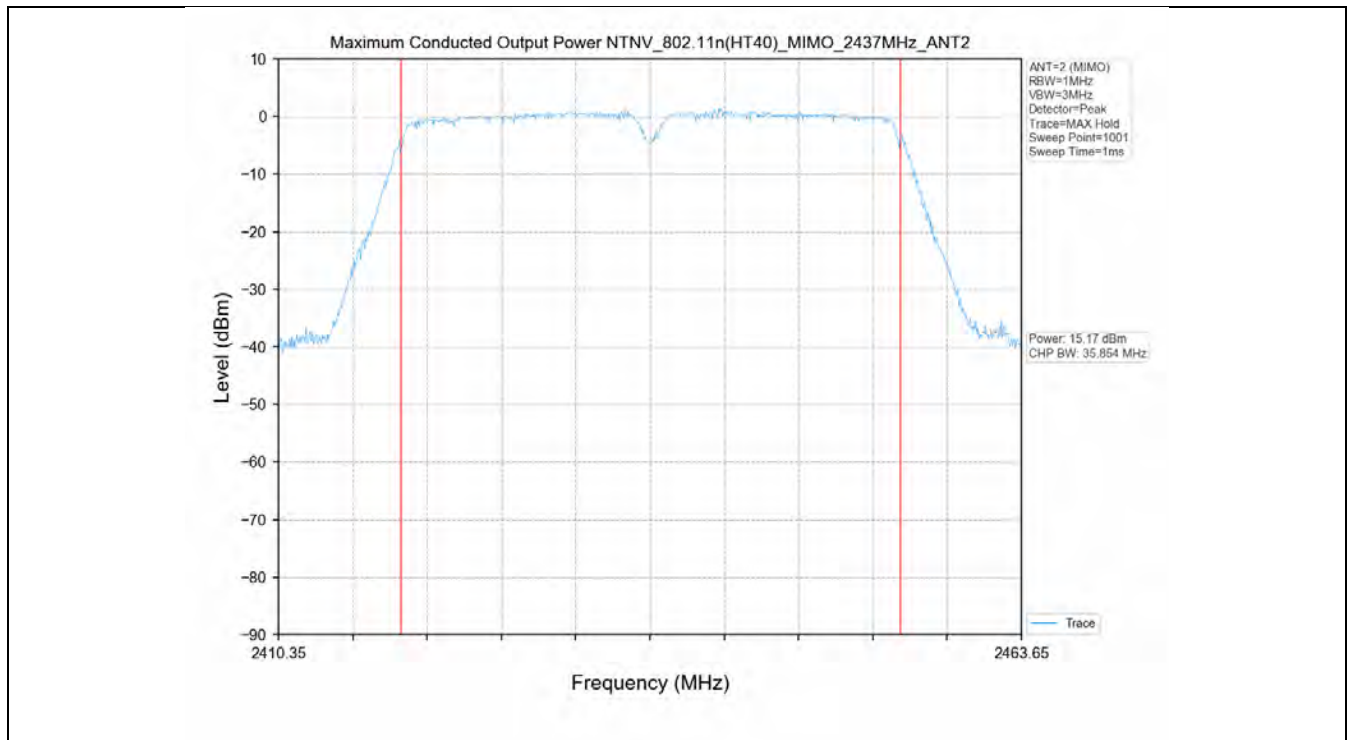


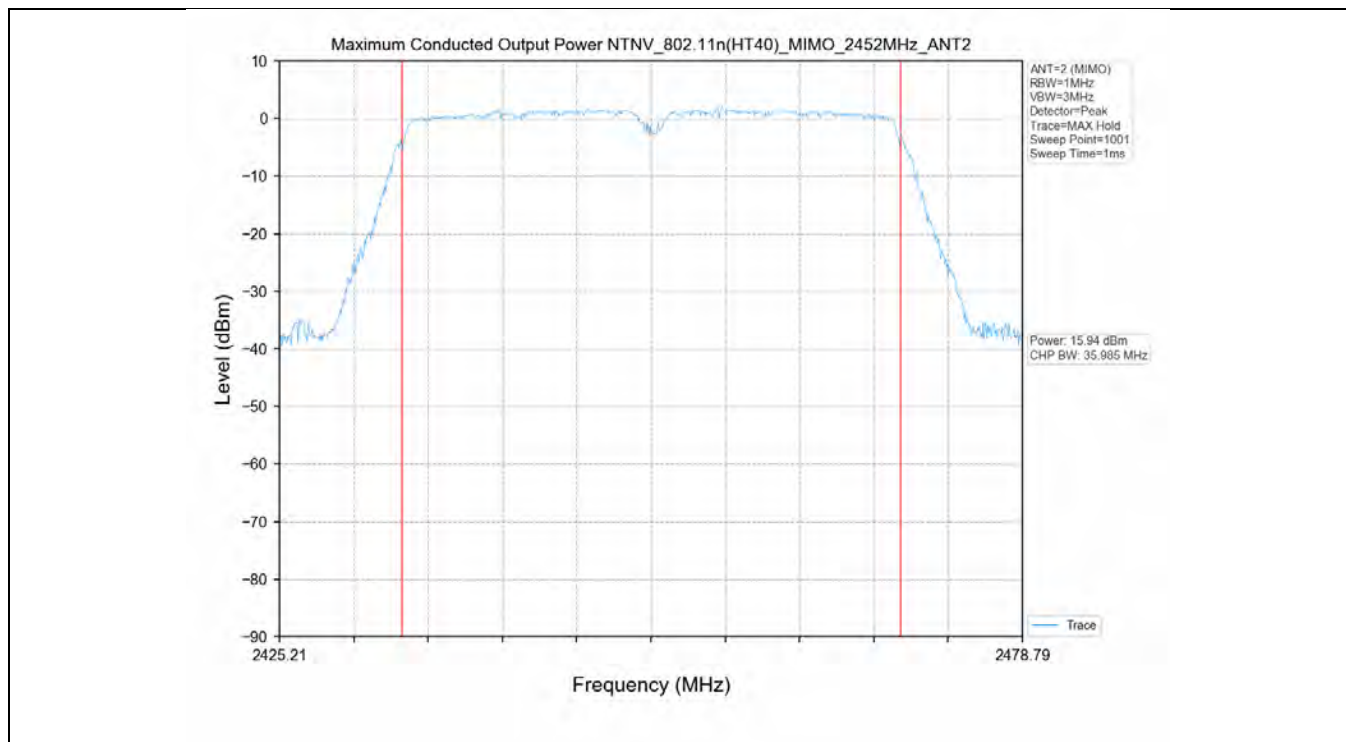










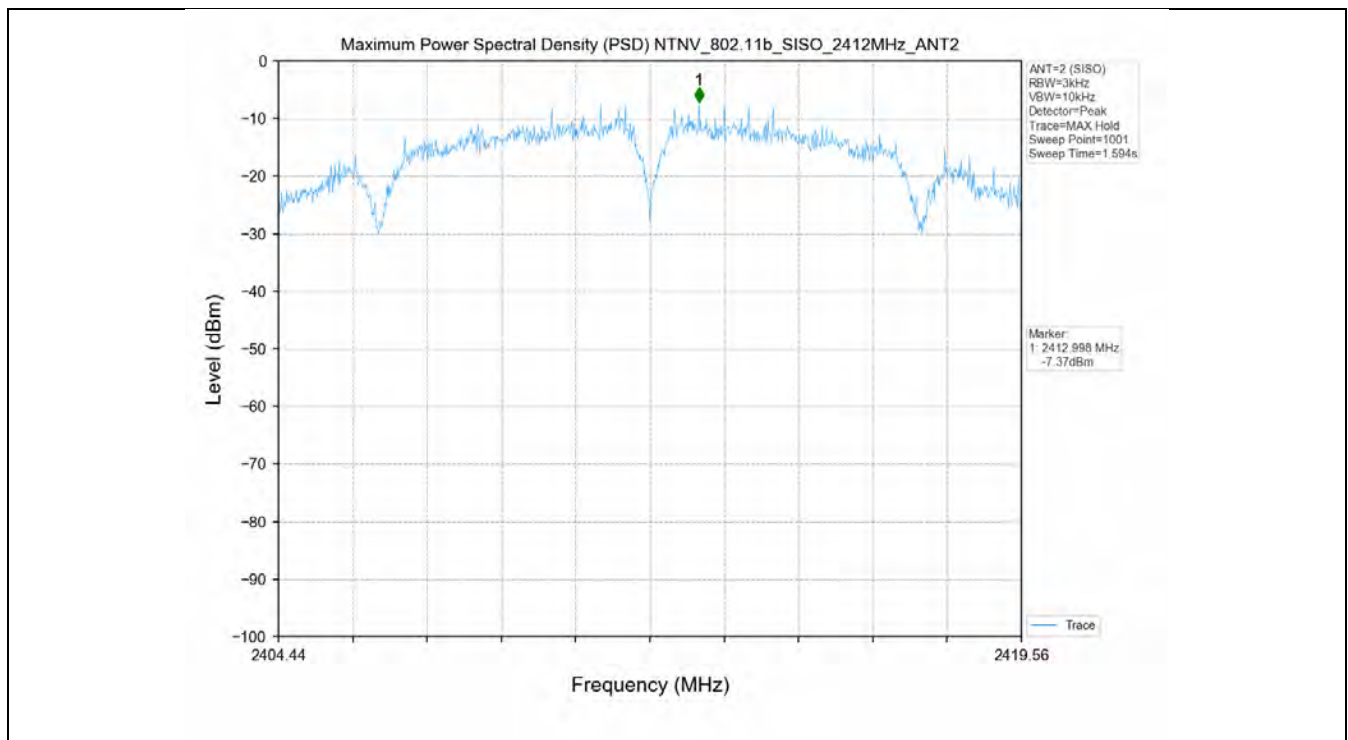
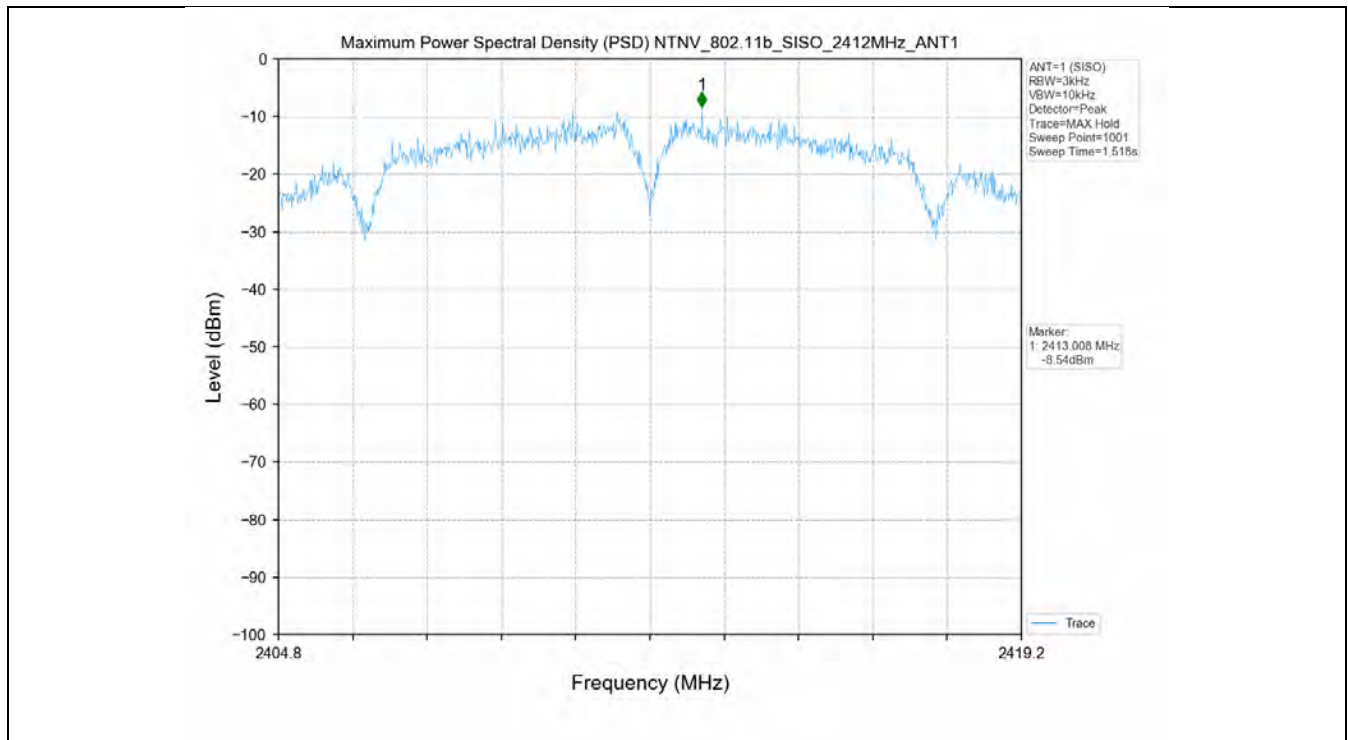


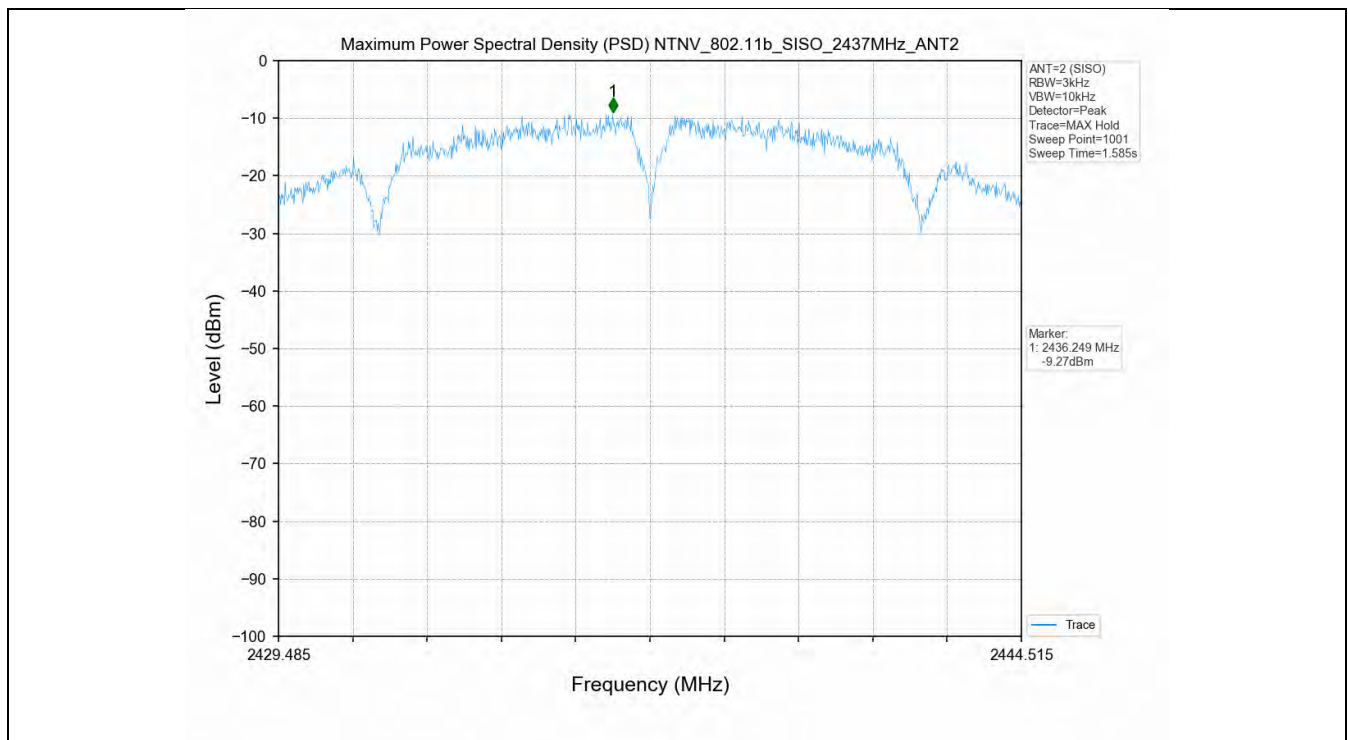
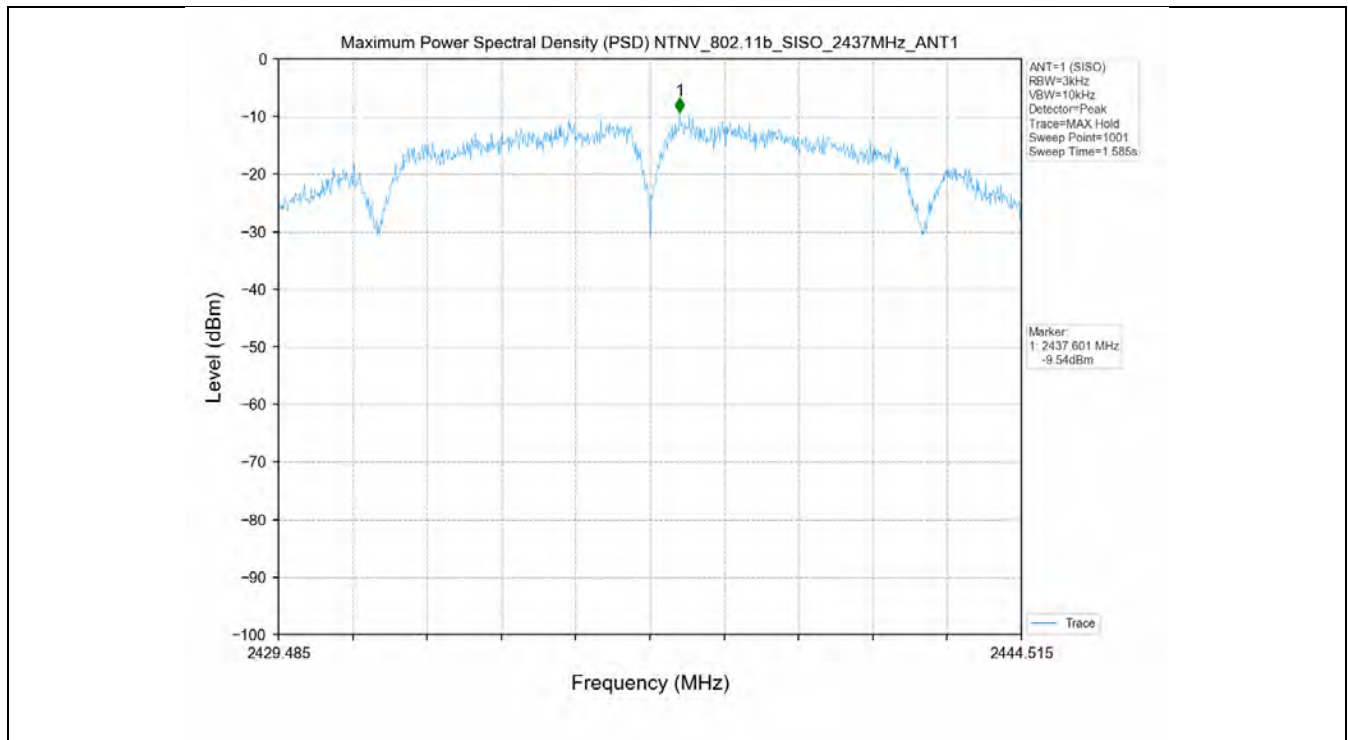
4. Maximum Power Spectral Density (PSD)

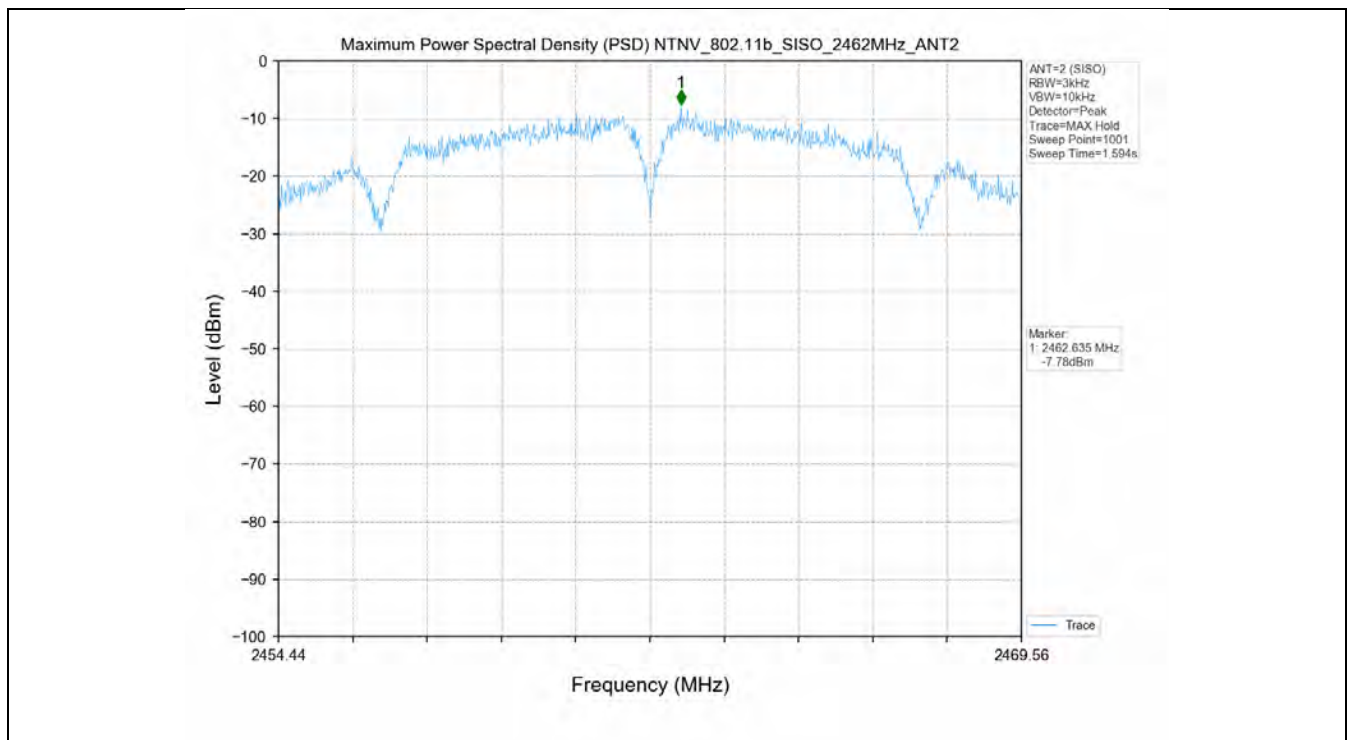
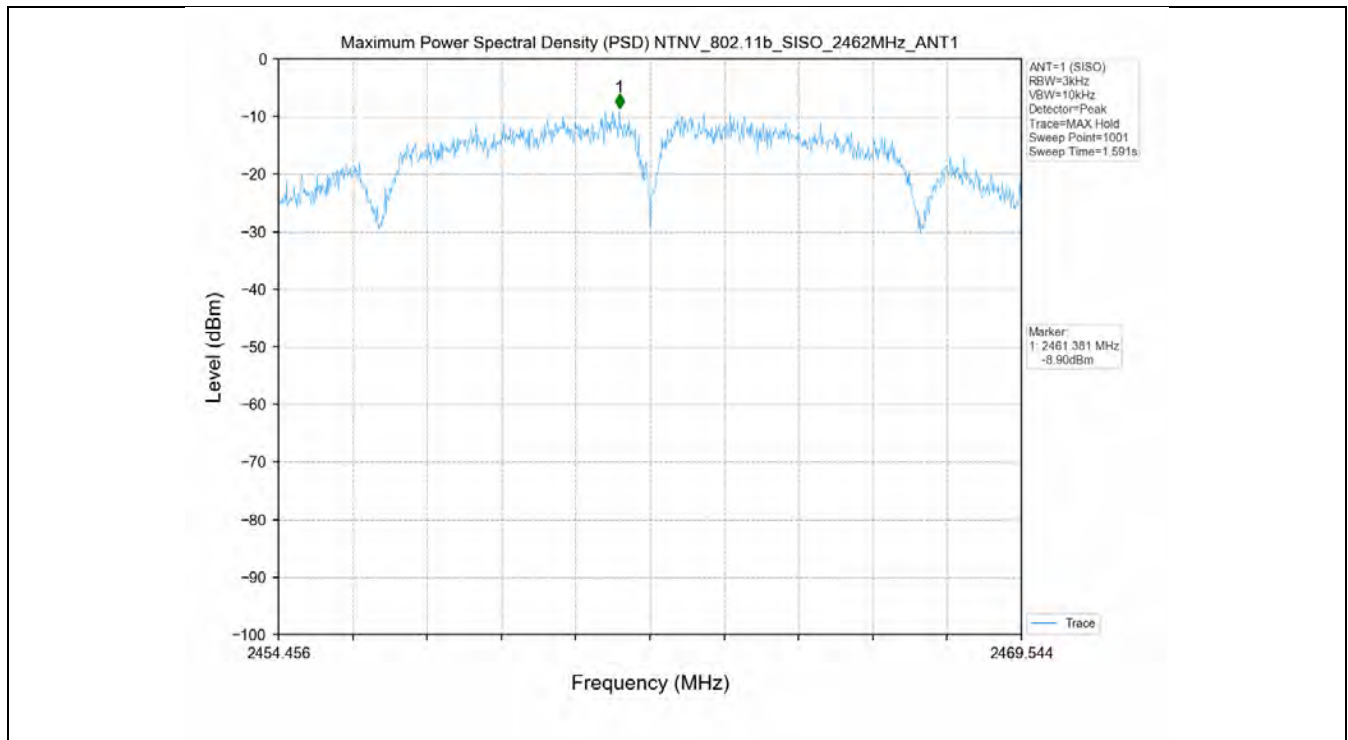
4.1 Test Result

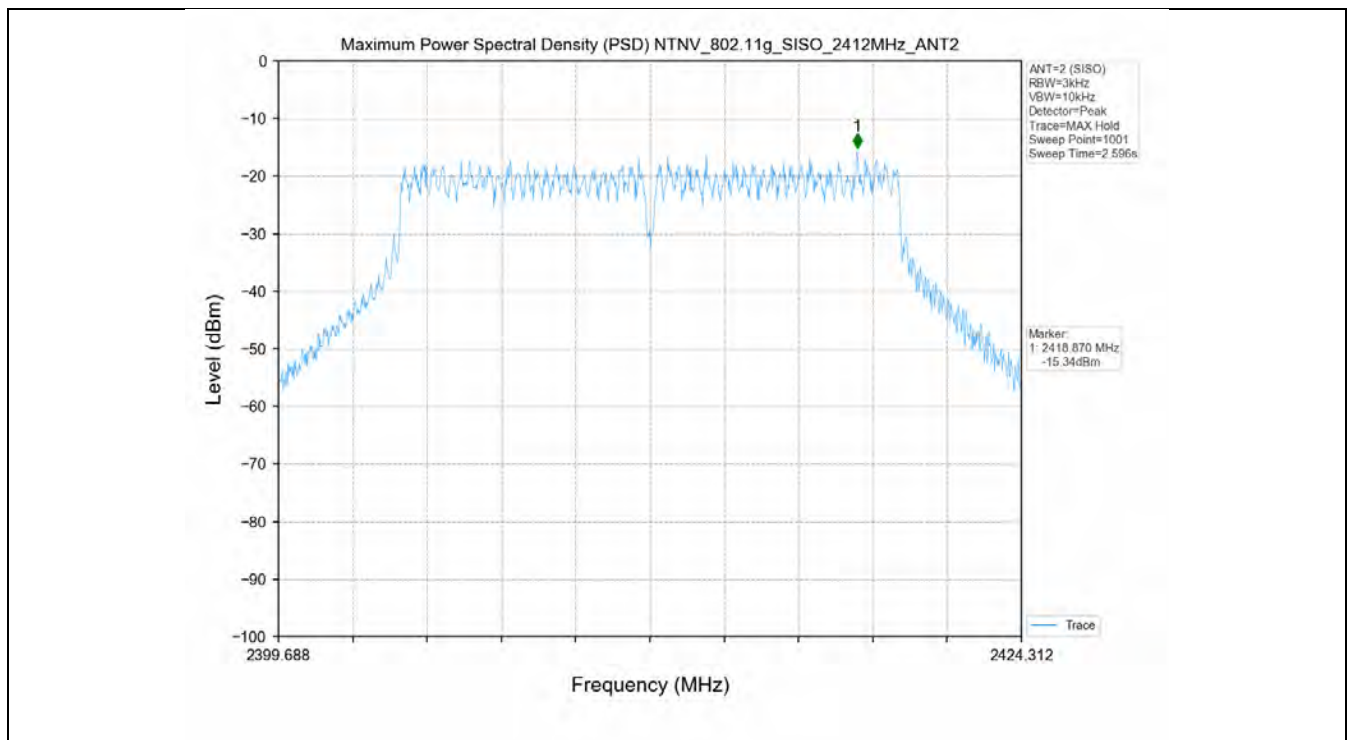
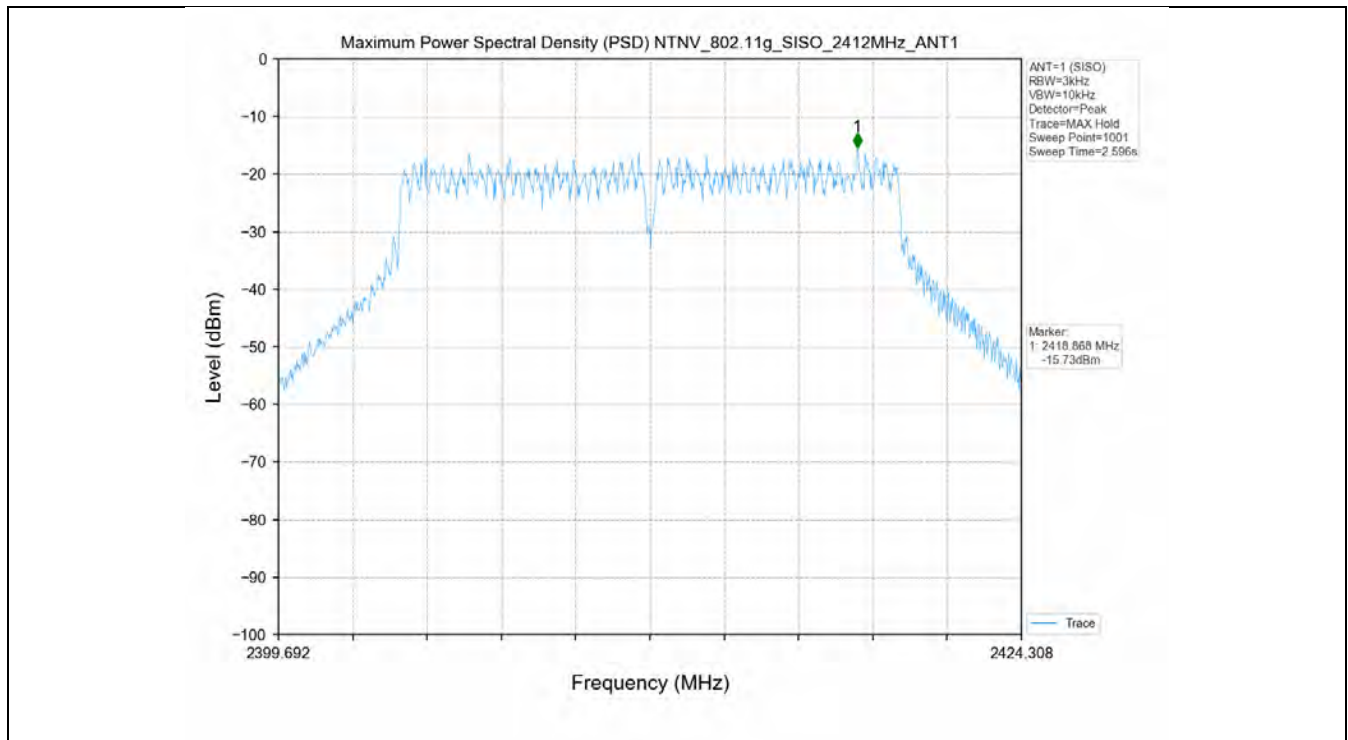
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-8.54	-7.37	/	≤8	PASS
	2437	SISO	-9.54	-9.27	/	≤8	PASS
	2462	SISO	-8.90	-7.78	/	≤8	PASS
802.11g	2412	SISO	-15.73	-15.34	/	≤8	PASS
	2437	SISO	-15.52	-15.26	/	≤8	PASS
	2462	SISO	-15.18	-14.98	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-16.66	-15.24	-13.08	≤8	PASS
	2437	MIMO	-16.68	-16.33	-13.61	≤8	PASS
	2462	MIMO	-16.59	-16.39	-13.55	≤8	PASS
802.11n(HT40)	2422	MIMO	-20.92	-20.37	-17.83	≤8	PASS
	2437	MIMO	-20.54	-19.98	-18.18	≤8	PASS
	2452	MIMO	-20.05	-20.11	-17.31	≤8	PASS

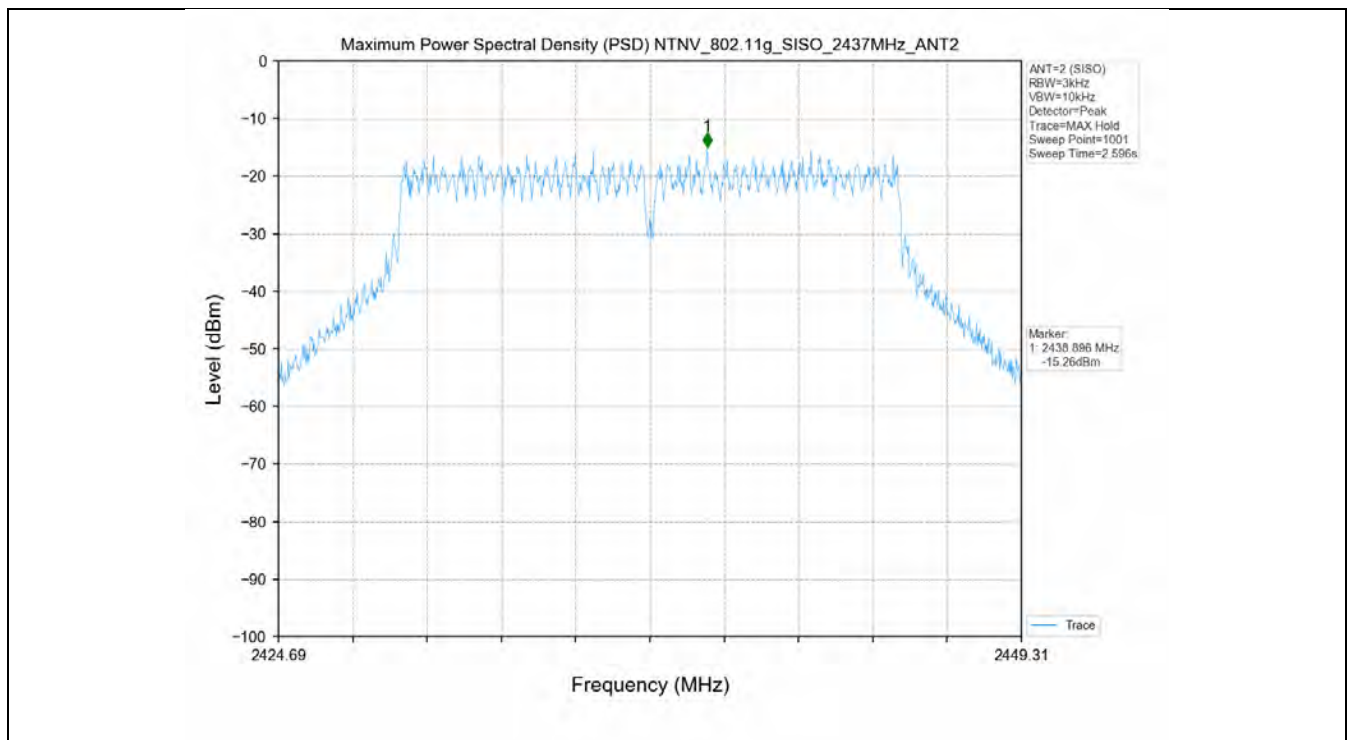
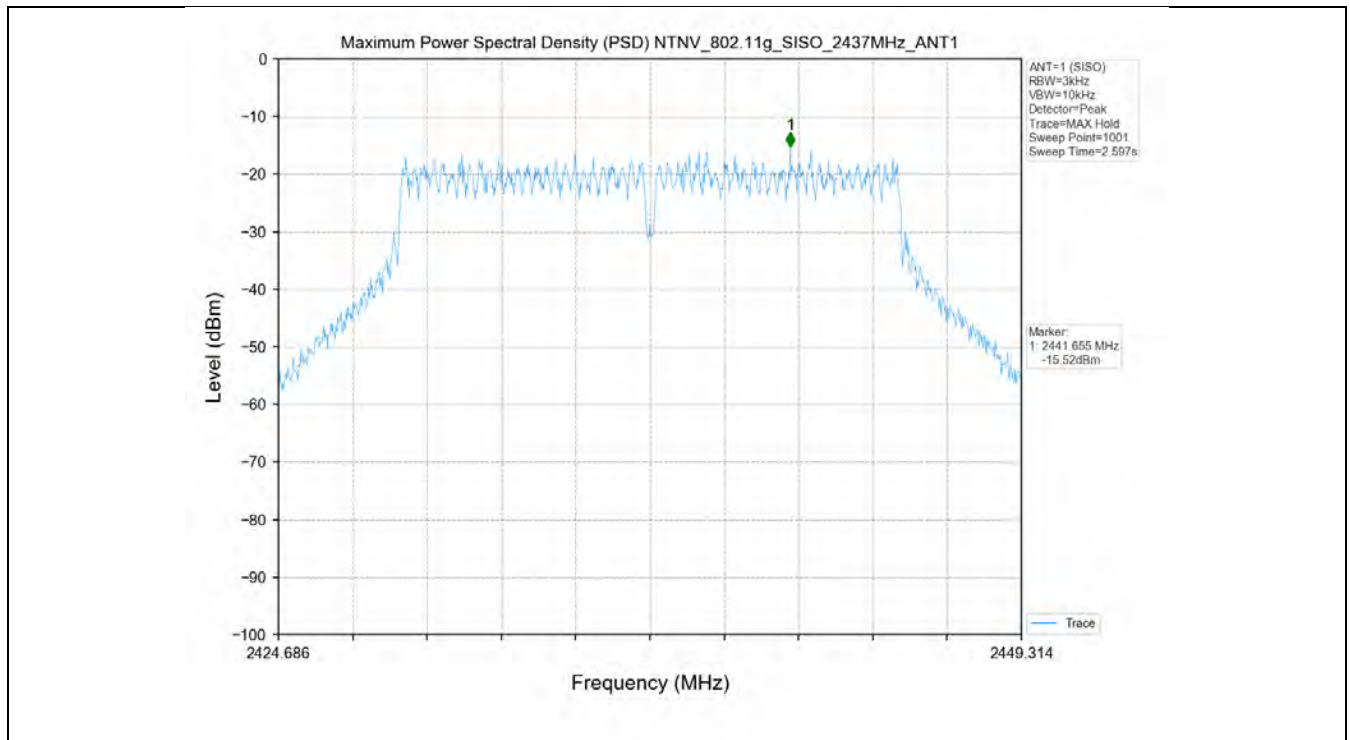
4.2 Test Graph

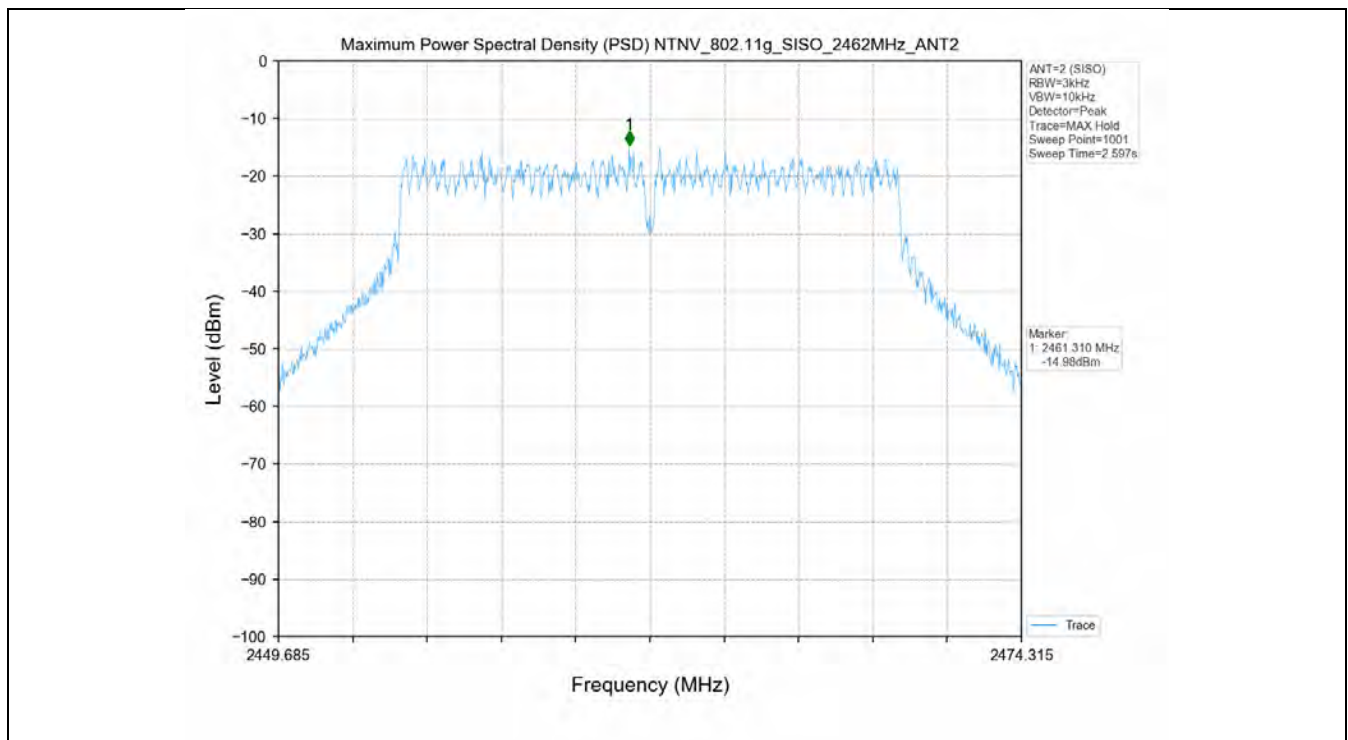
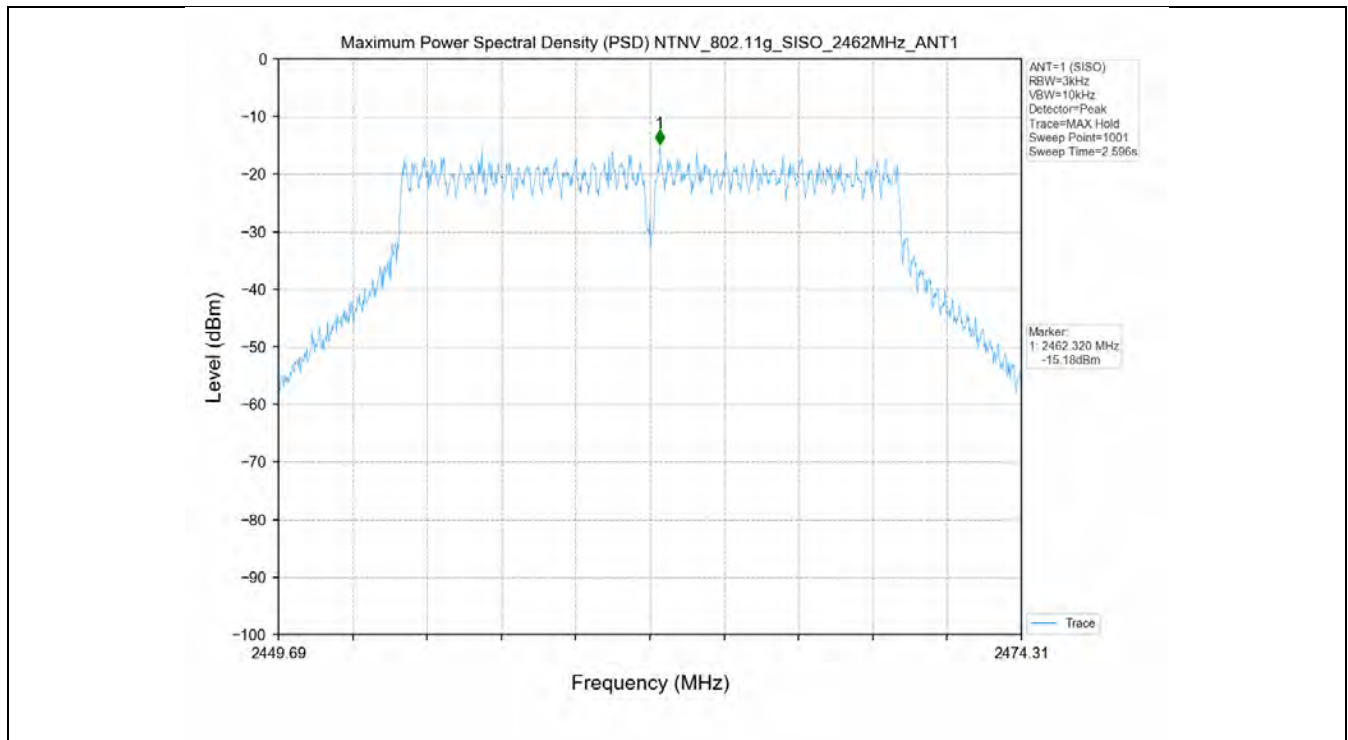


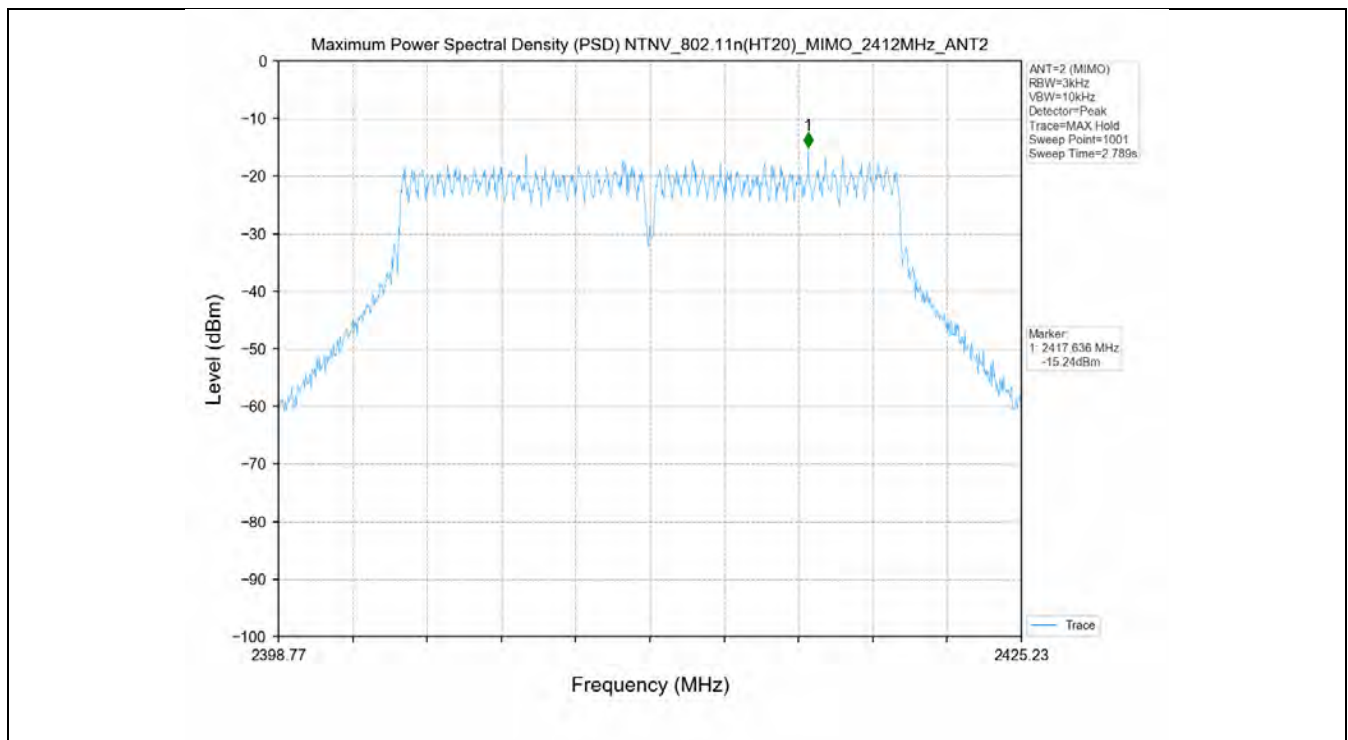
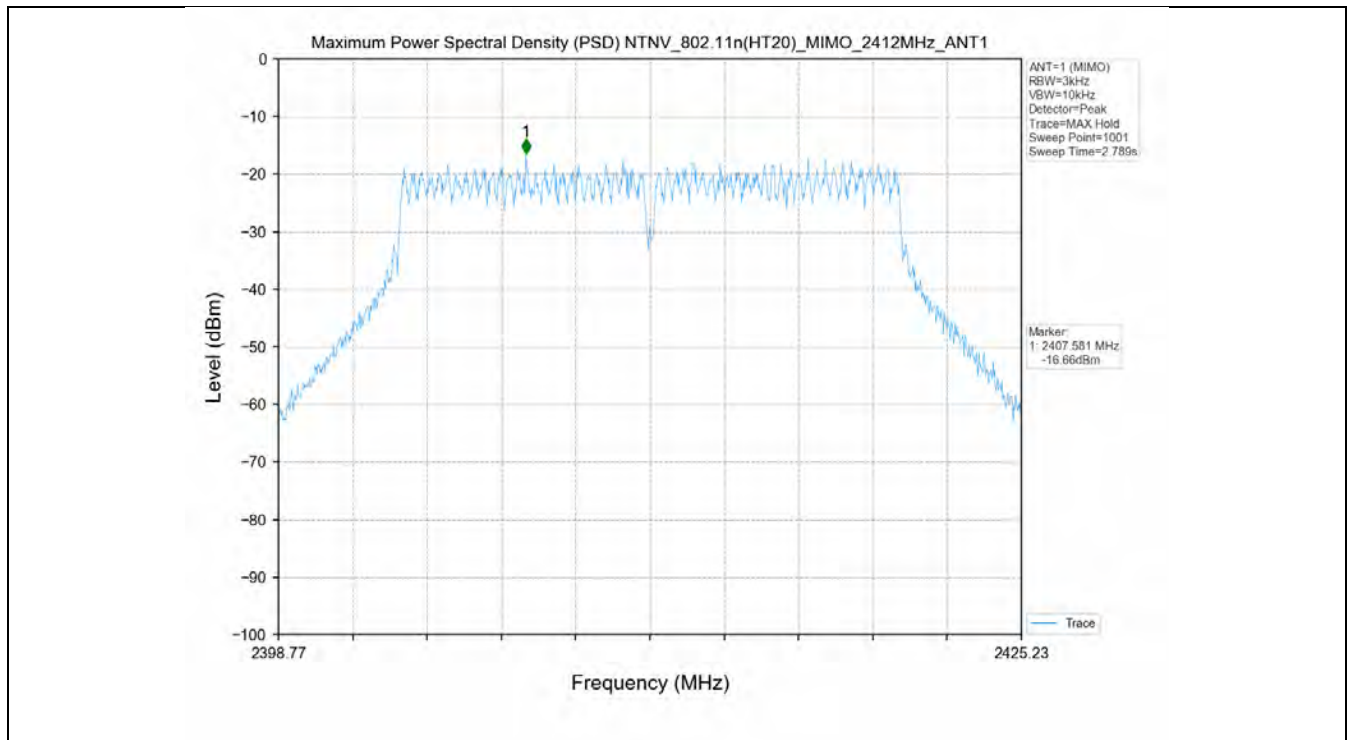


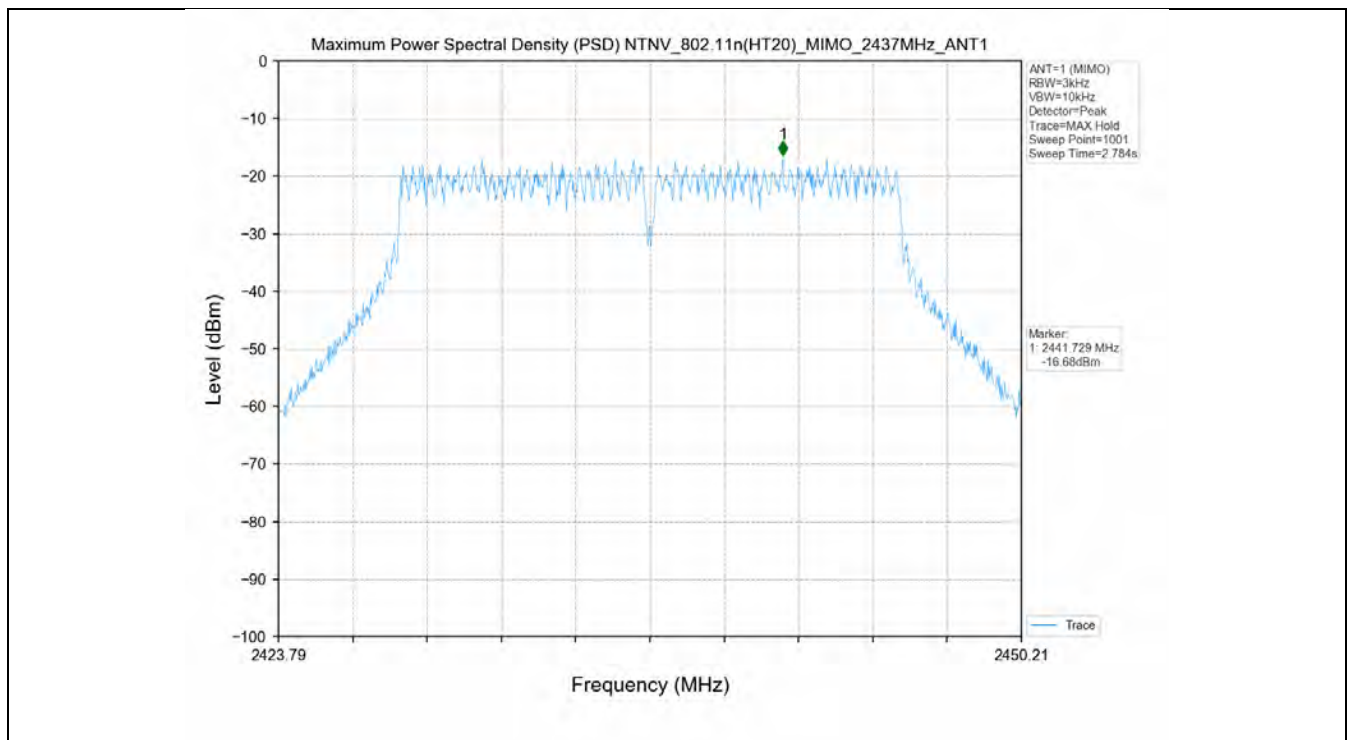
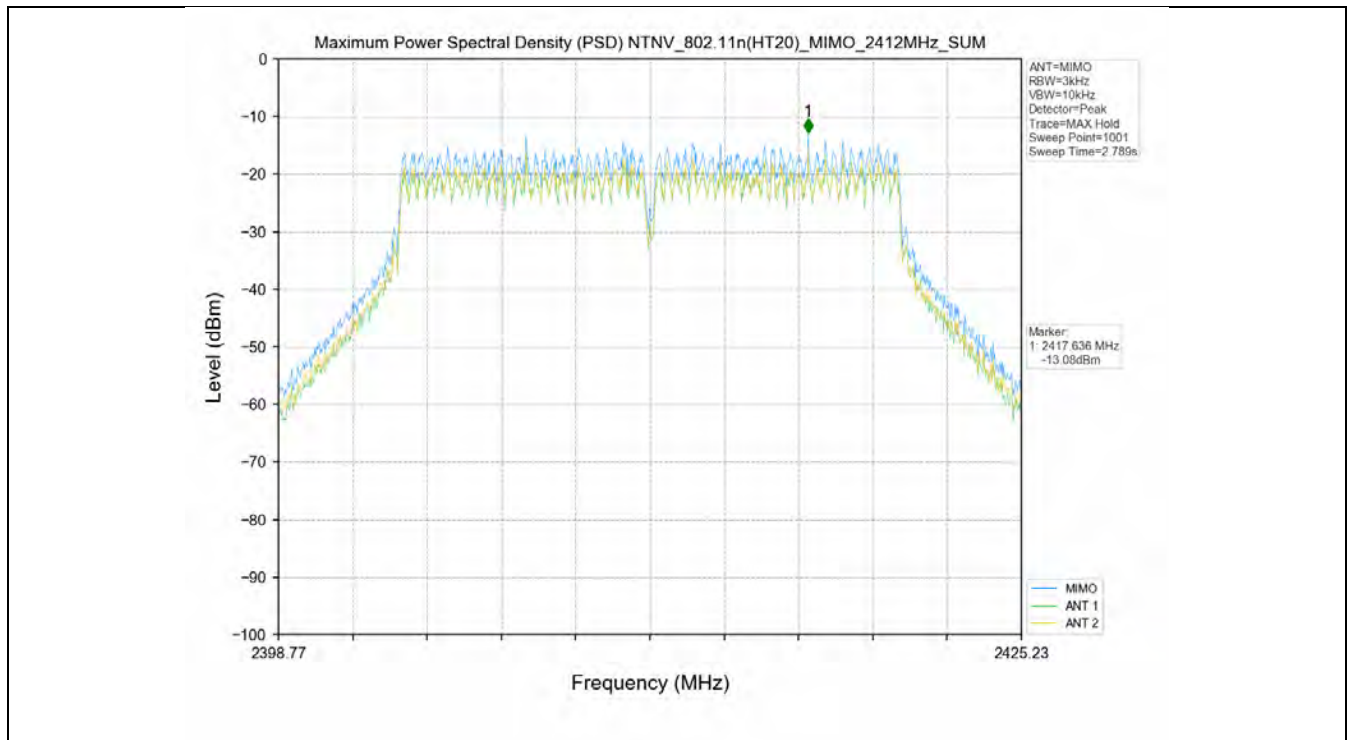


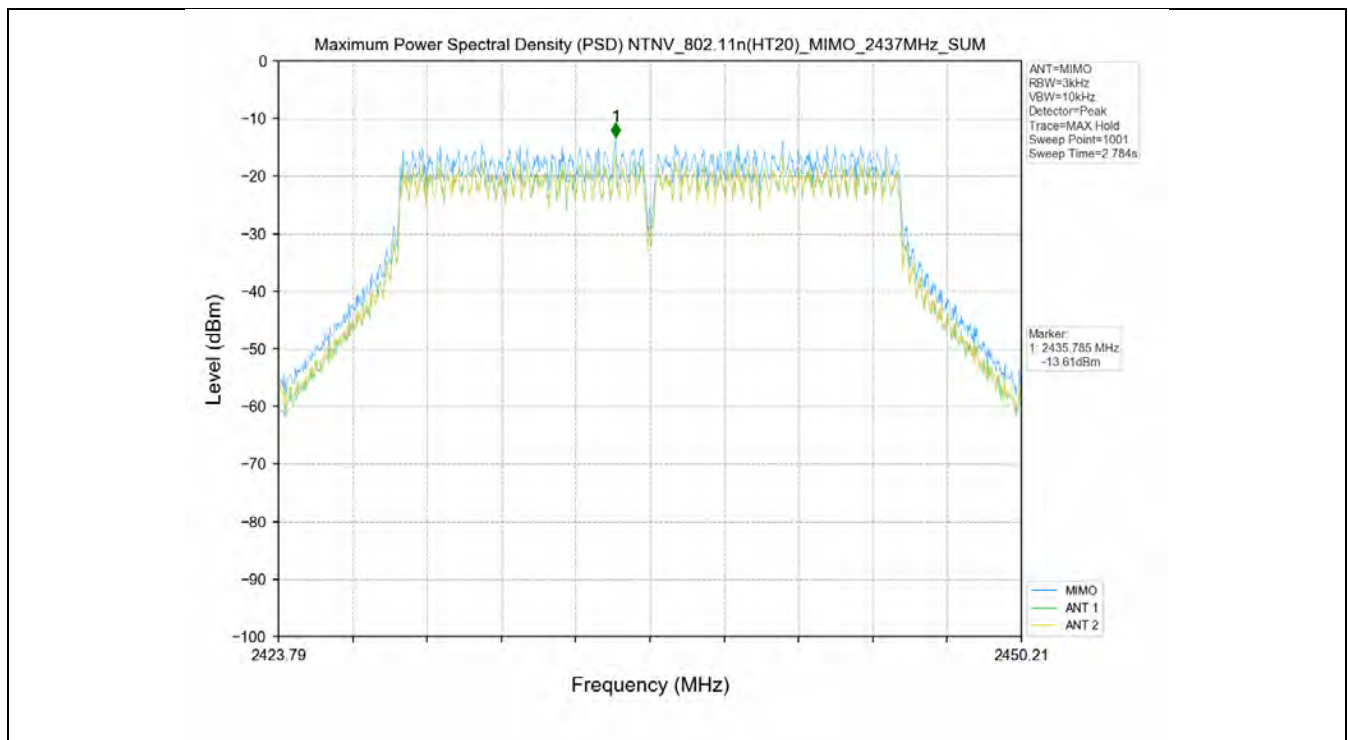
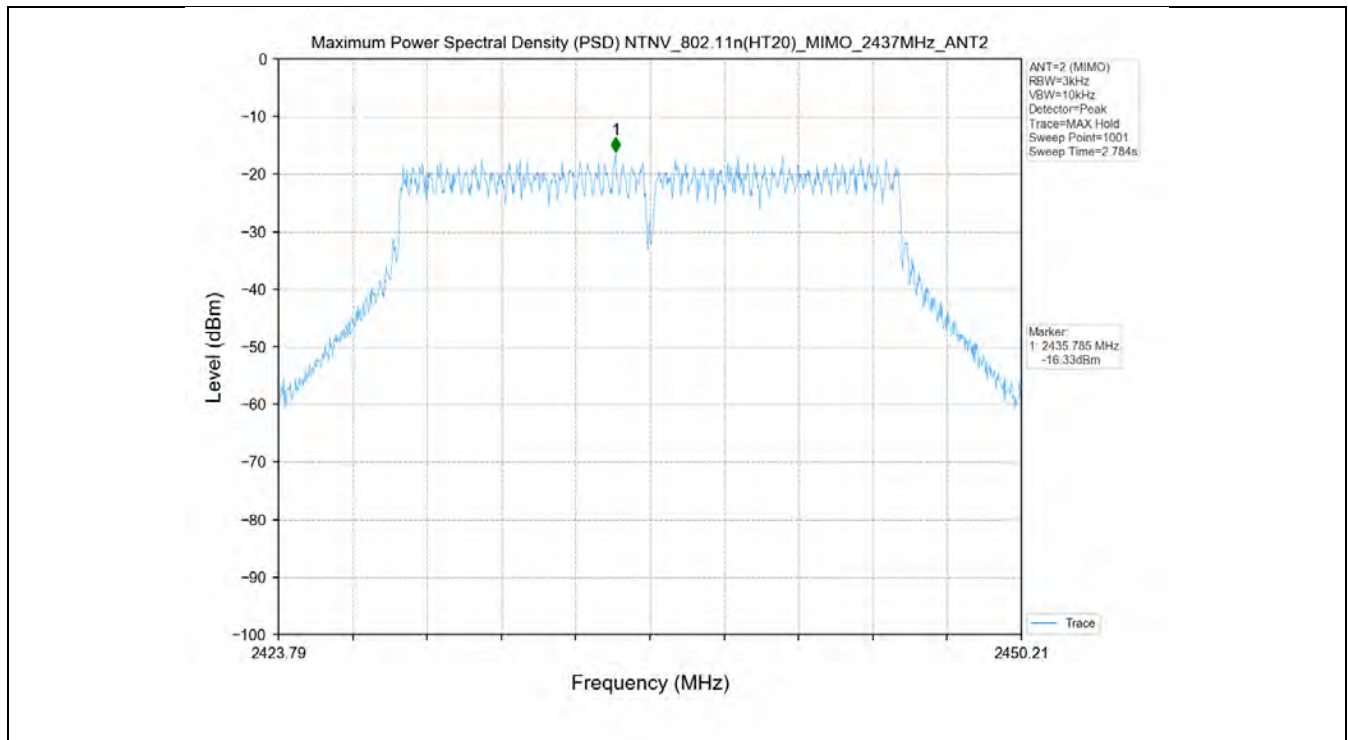


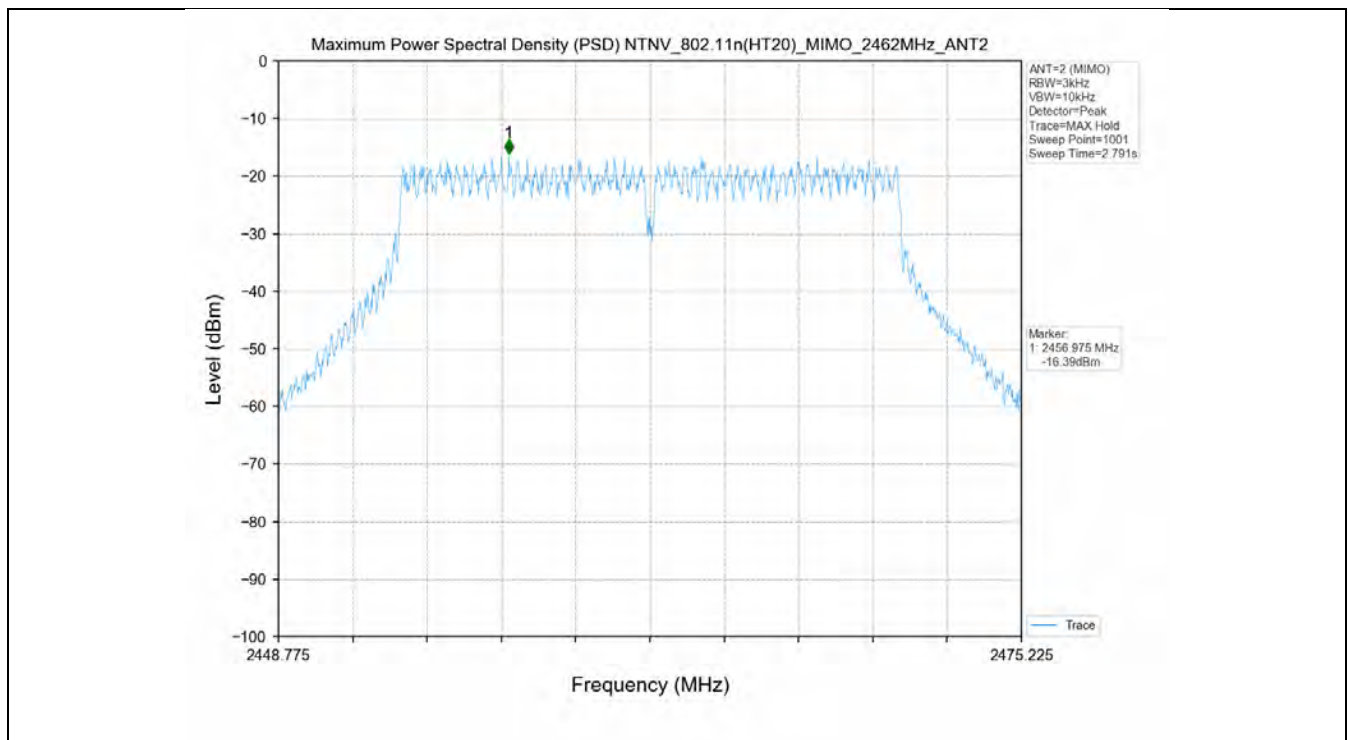
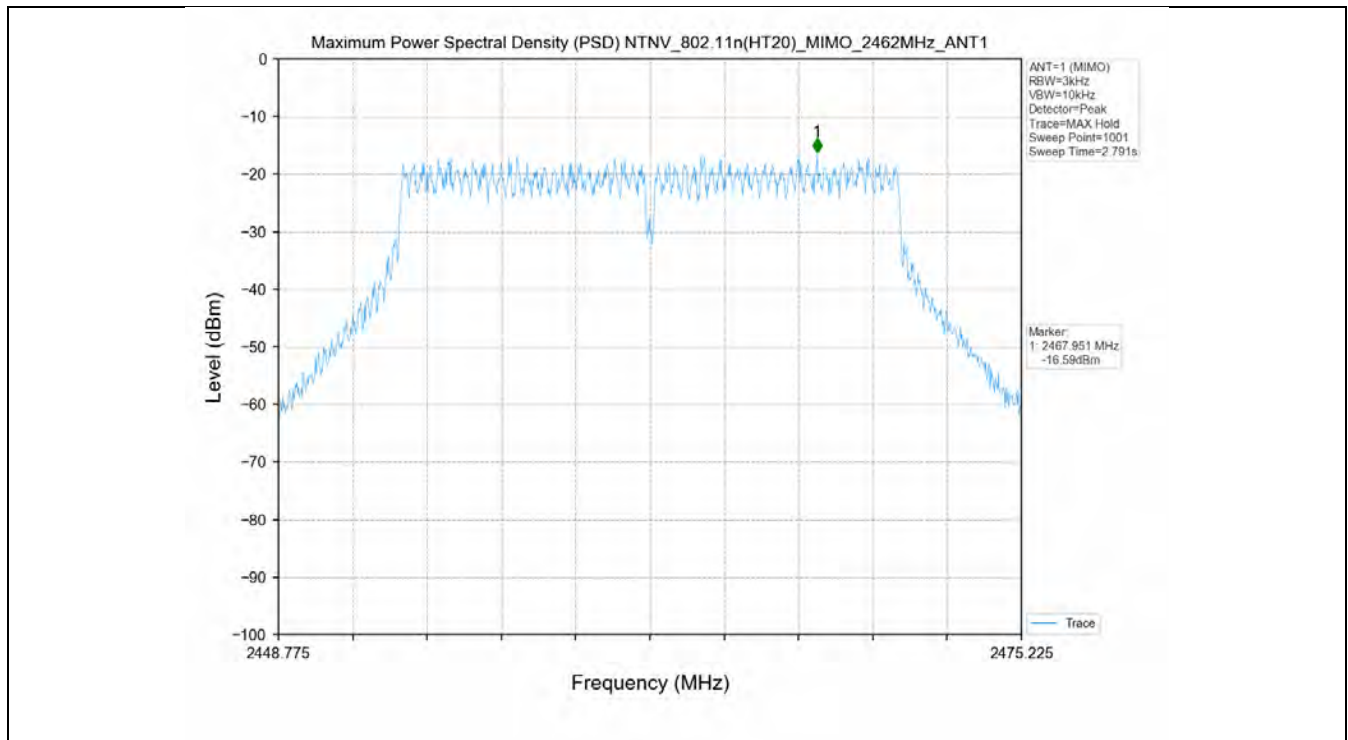


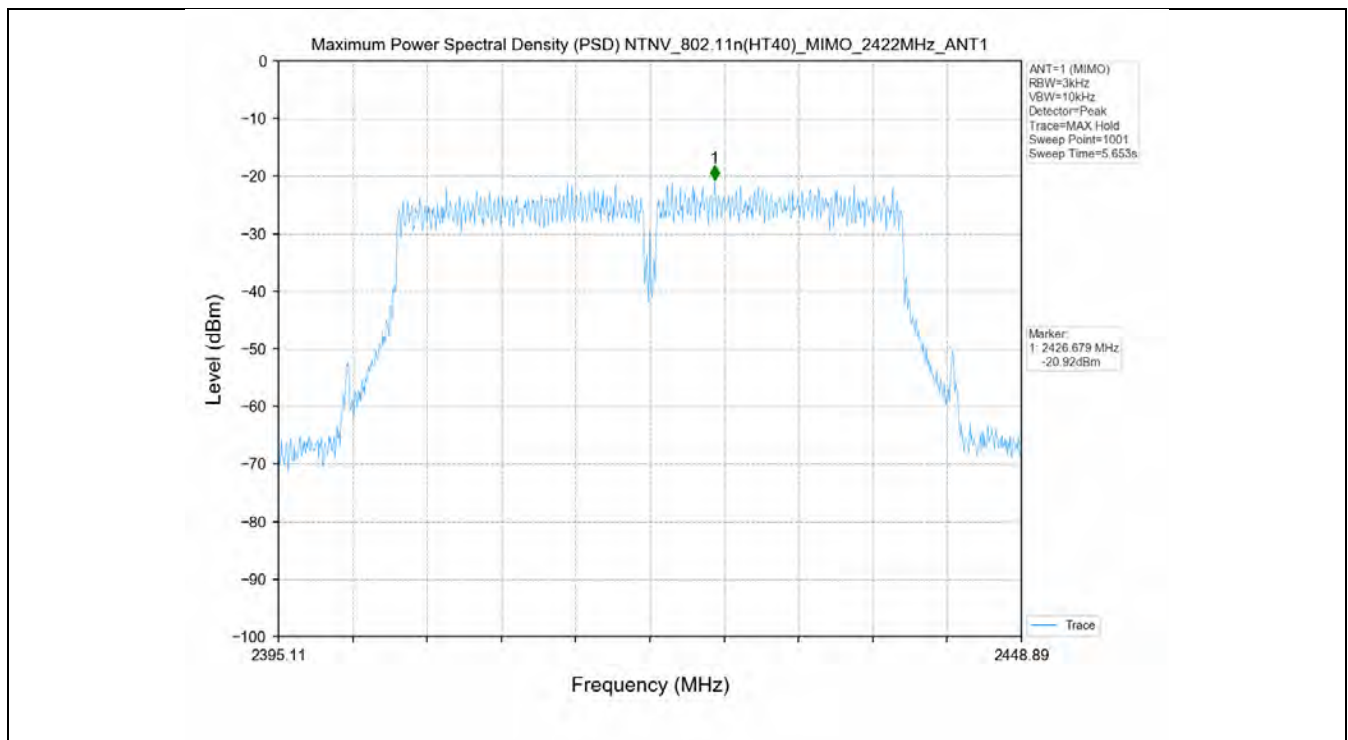
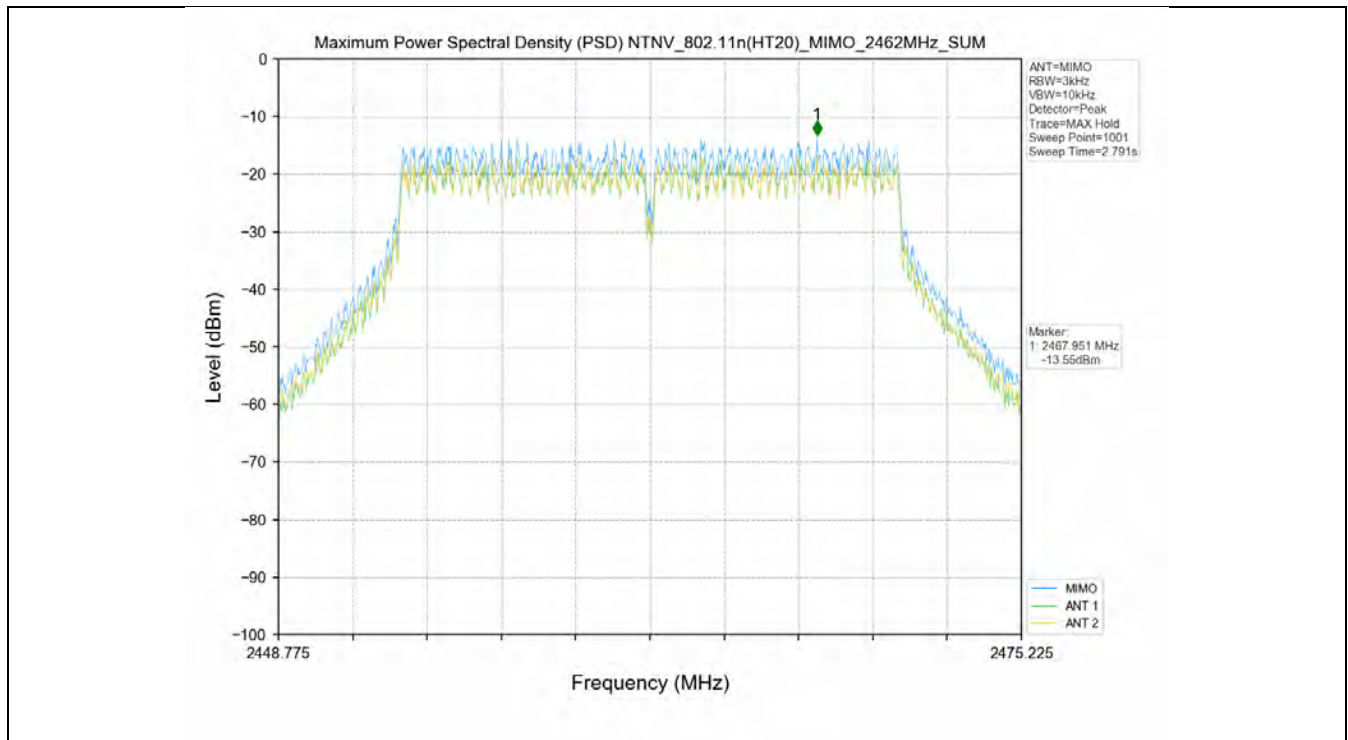


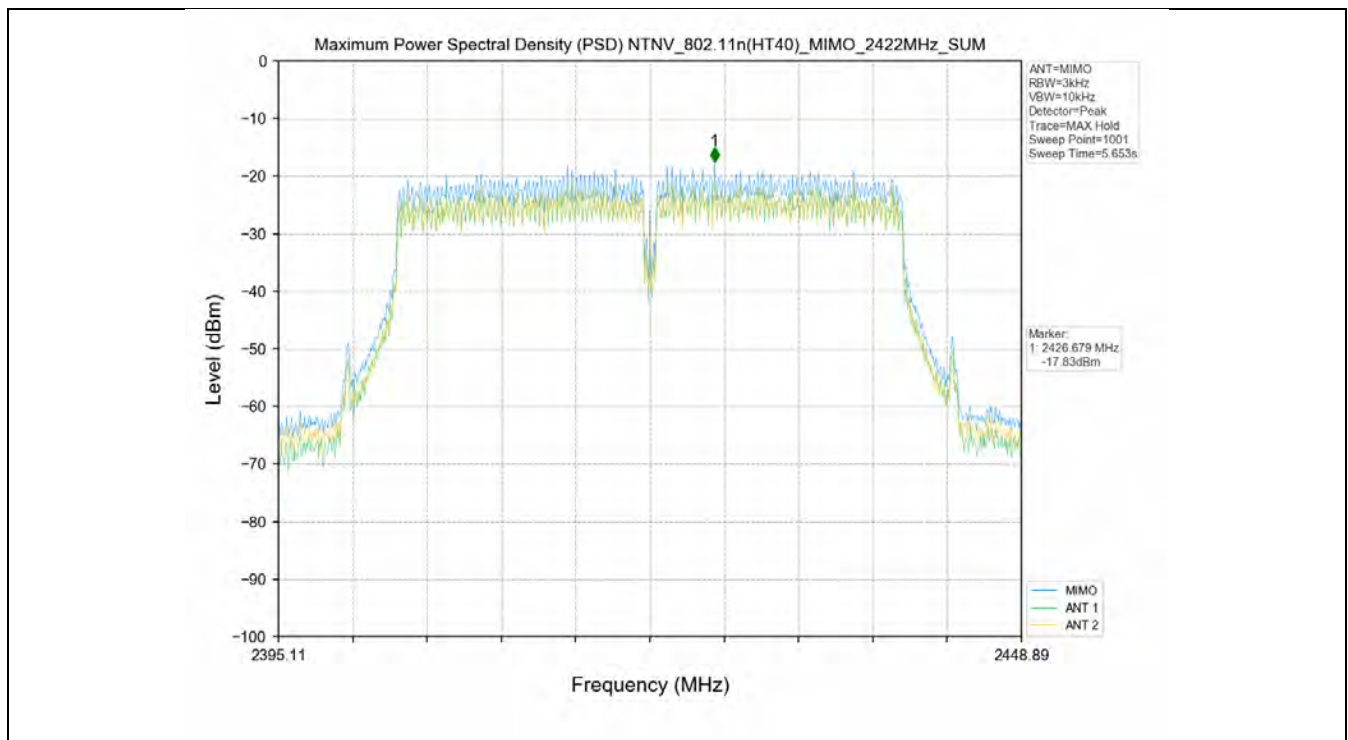
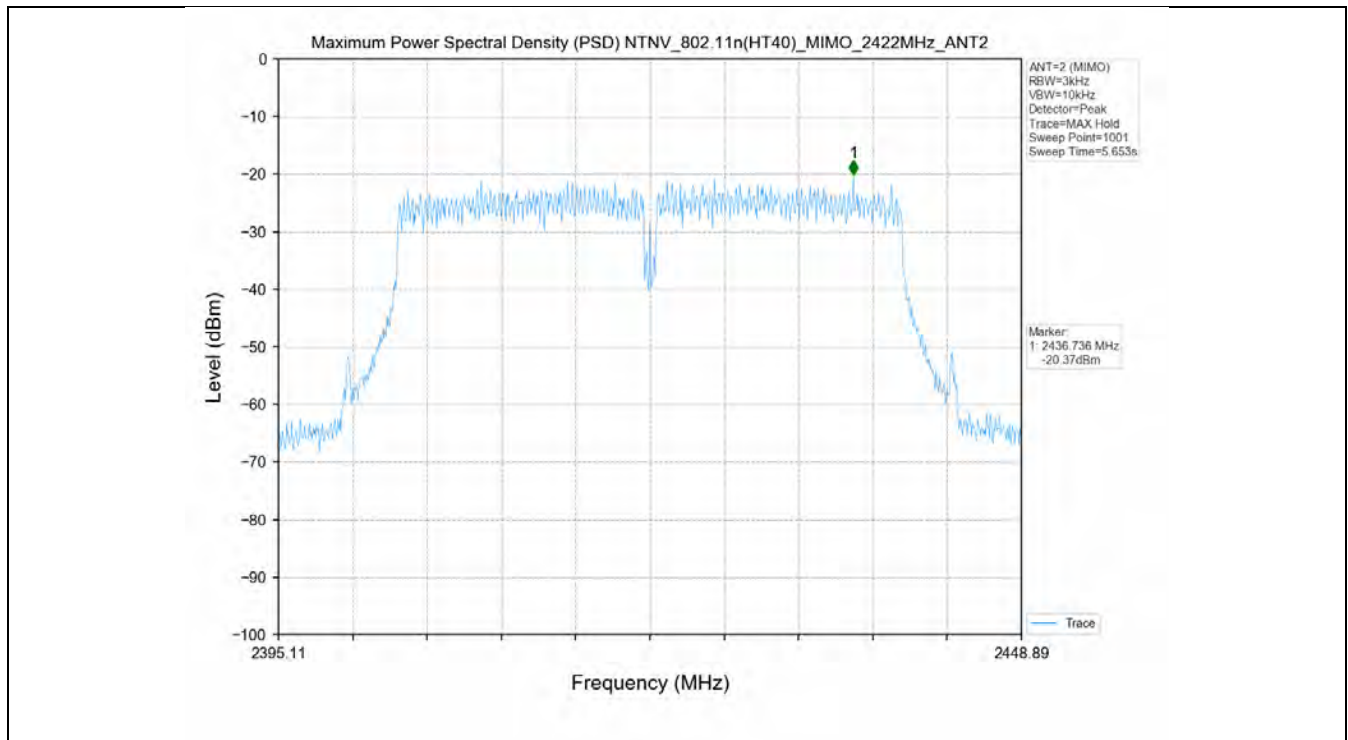


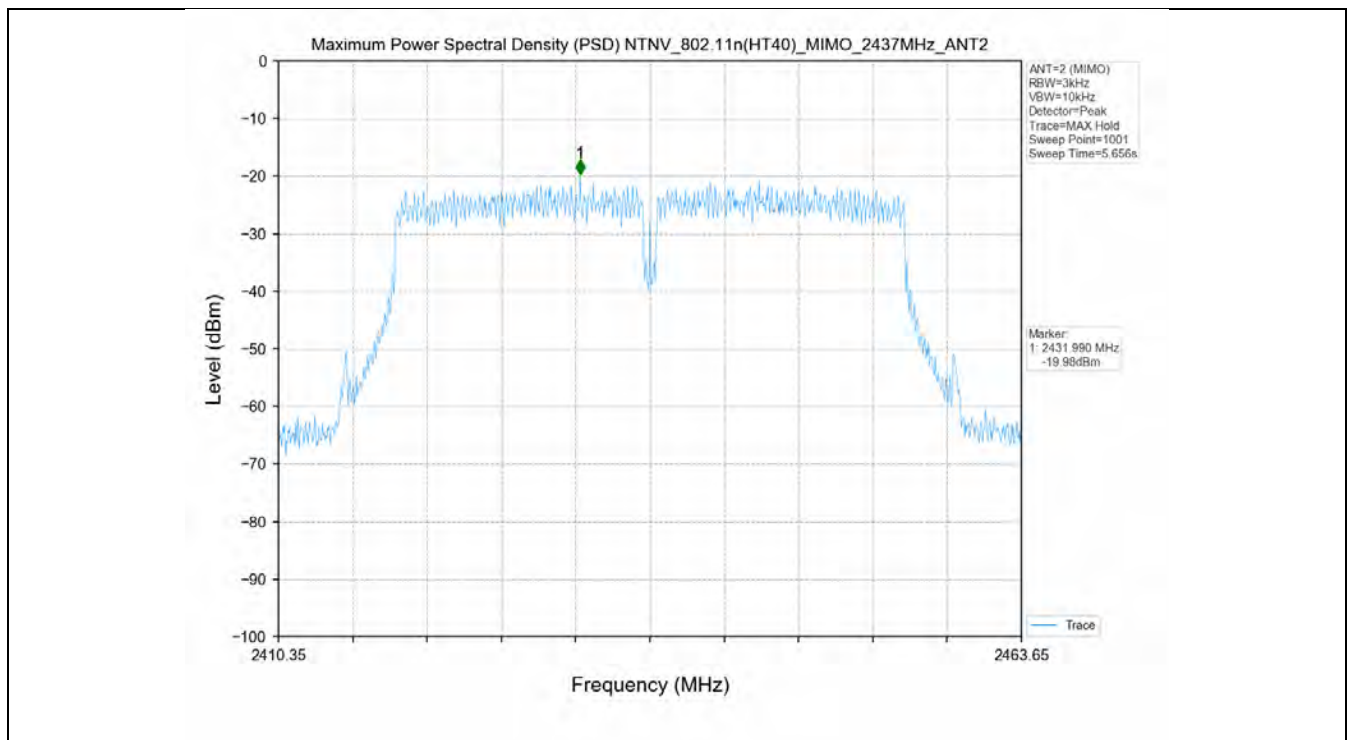
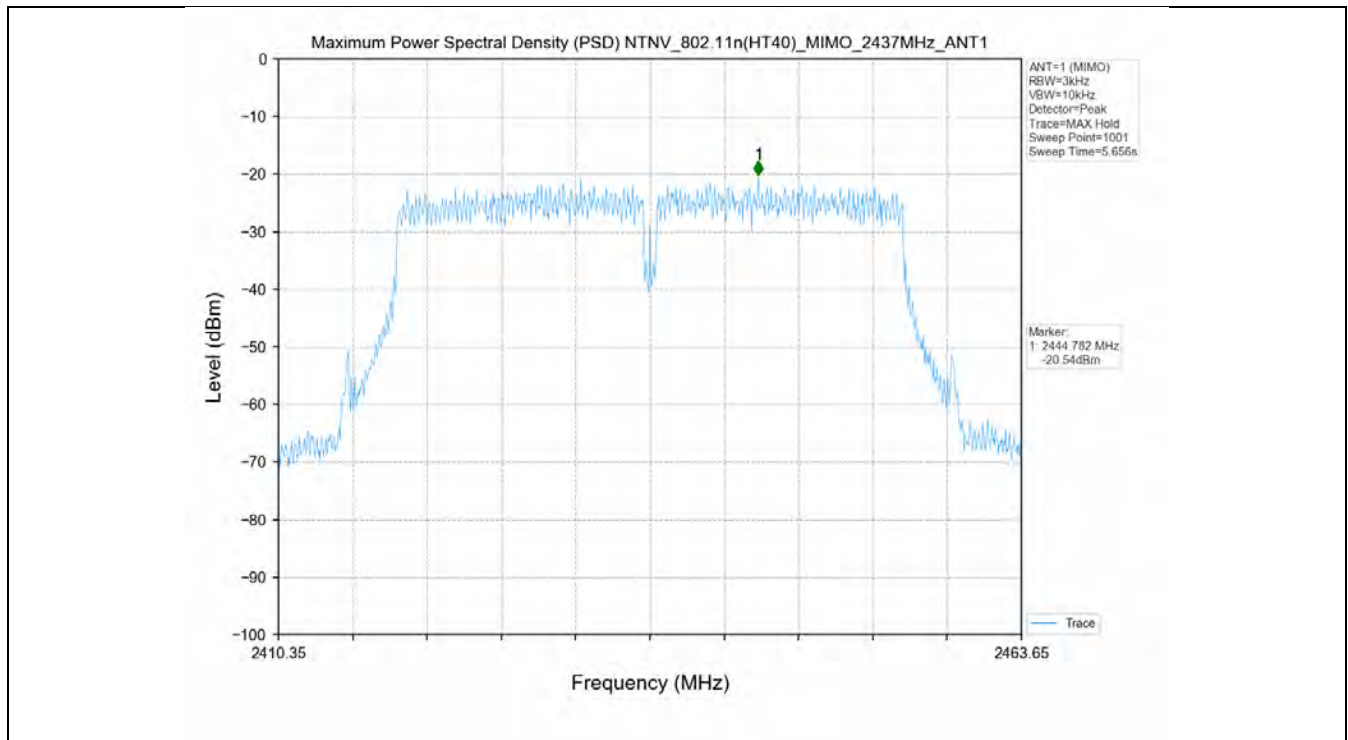


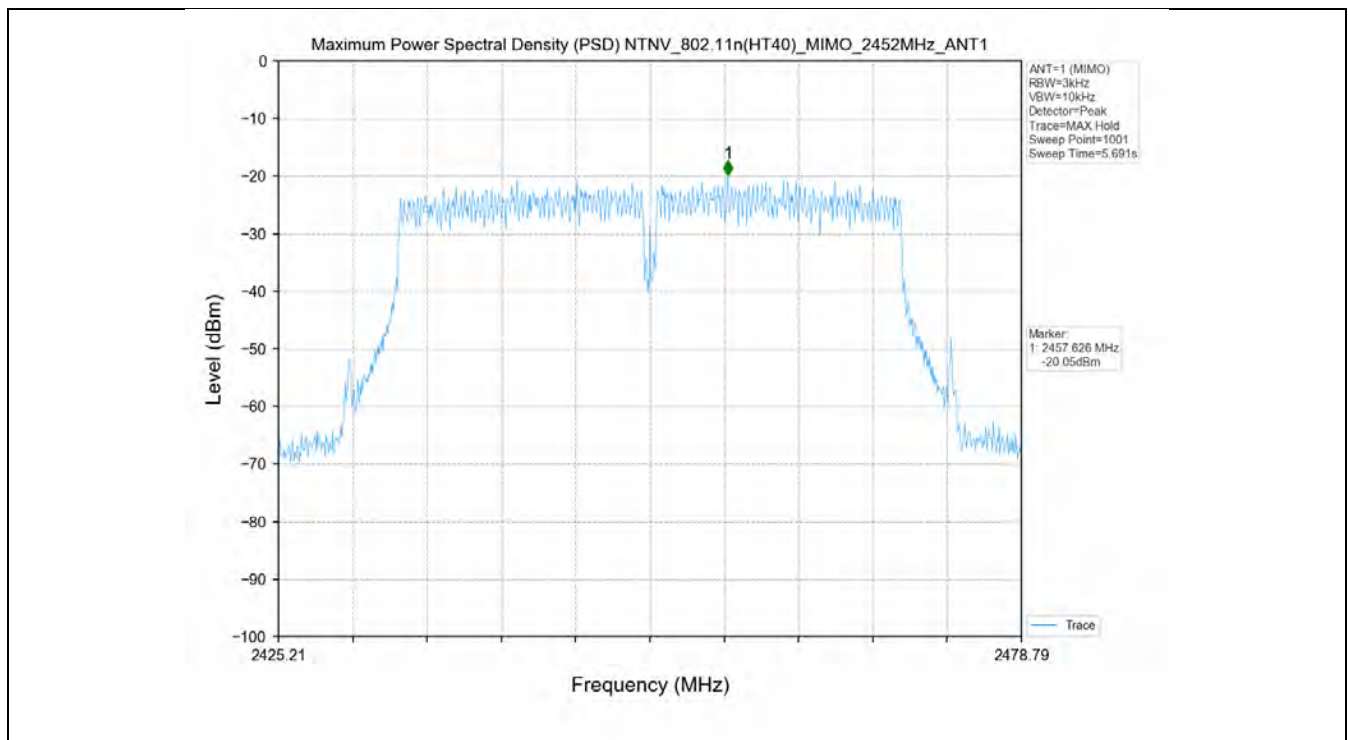
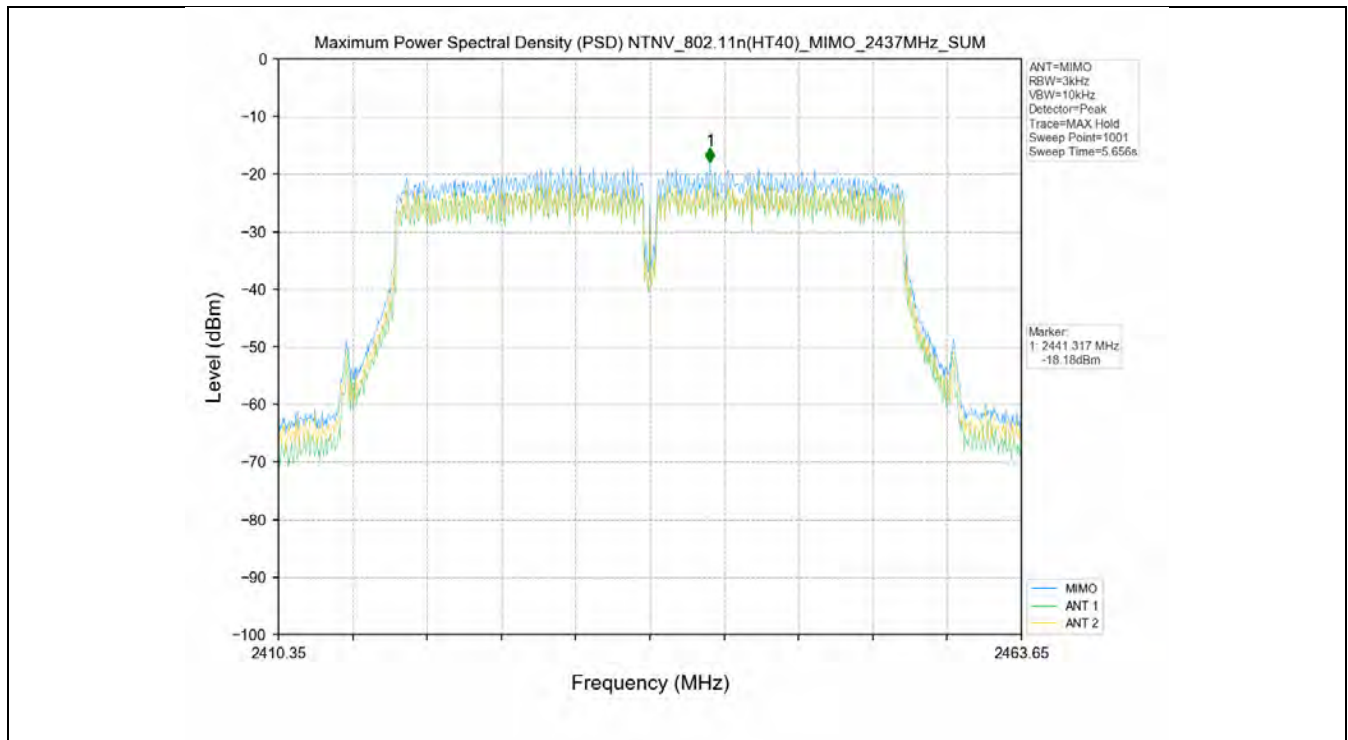


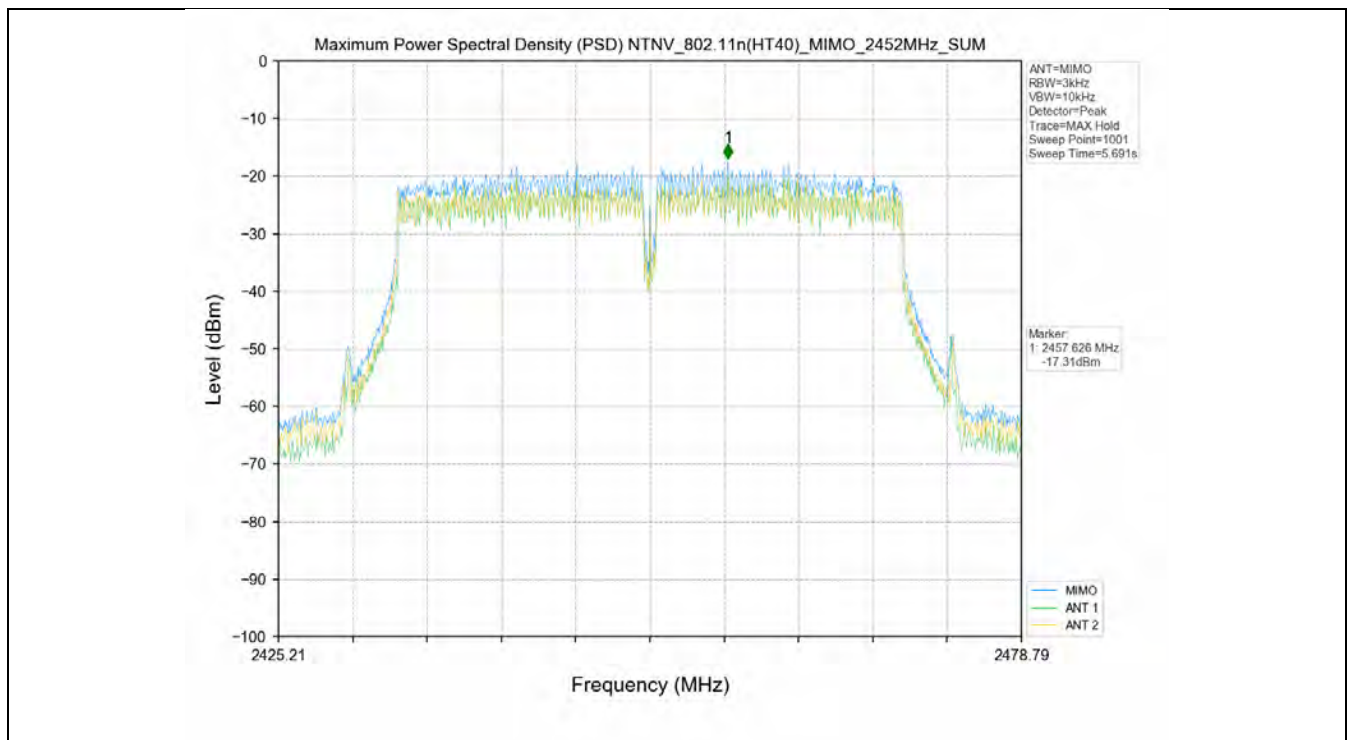
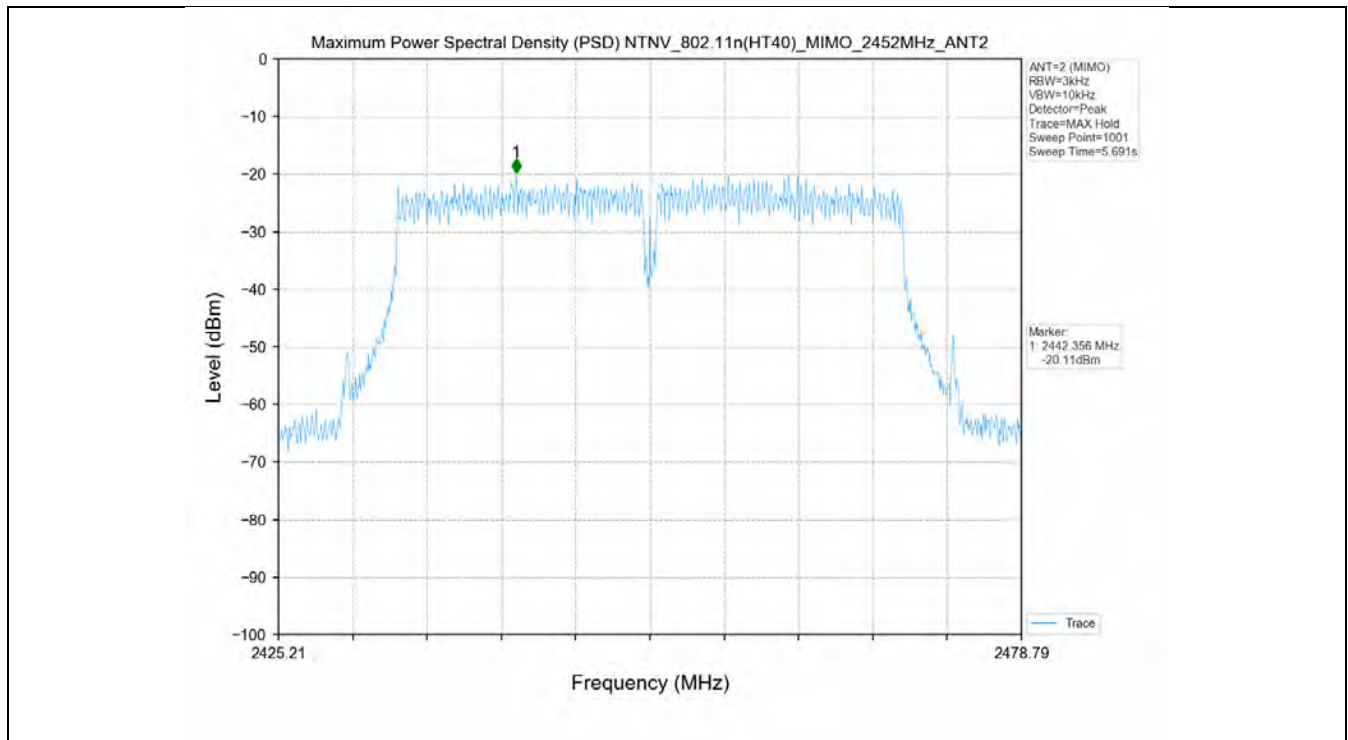














5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-14.25	PASS
			2	Refer to test graph	-14.25	PASS
	2437	SISO	1	Refer to test graph	-14.25	PASS
			2	Refer to test graph	-14.25	PASS
	2462	SISO	1	Refer to test graph	-14.25	PASS
			2	Refer to test graph	-14.25	PASS
802.11g	2412	SISO	1	Refer to test graph	-21.31	PASS
			2	Refer to test graph	-21.31	PASS
	2437	SISO	1	Refer to test graph	-21.31	PASS
			2	Refer to test graph	-21.31	PASS
	2462	SISO	1	Refer to test graph	-21.31	PASS
			2	Refer to test graph	-21.31	PASS
802.11n(HT20)	2412	MIMO	0	Refer to test graph	-21.93	PASS
	2437	MIMO	0	Refer to test graph	-21.93	PASS
	2462	MIMO	0	Refer to test graph	-21.93	PASS
802.11n(HT40)	2422	MIMO	0	Refer to test graph	-25.85	PASS
	2437	MIMO	0	Refer to test graph	-25.85	PASS
	2452	MIMO	0	Refer to test graph	-25.85	PASS

5.2 Test Graph

