



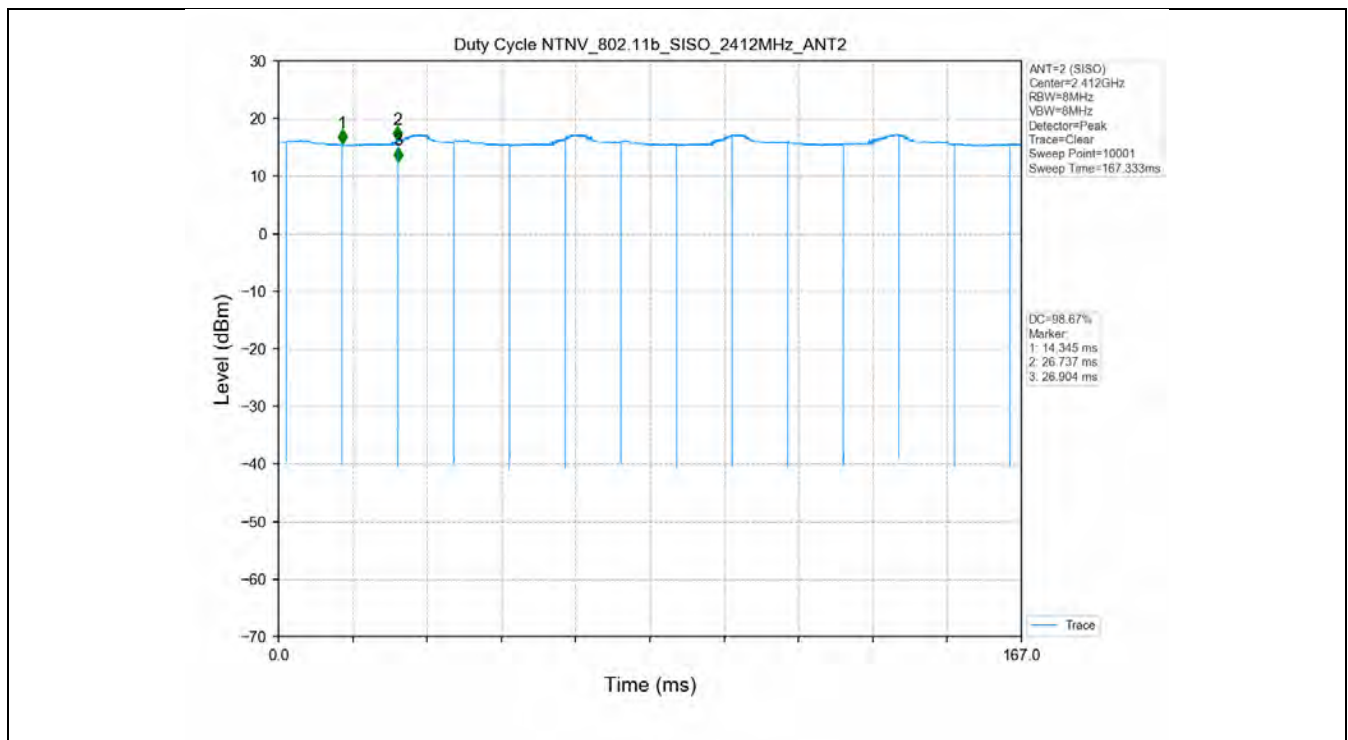
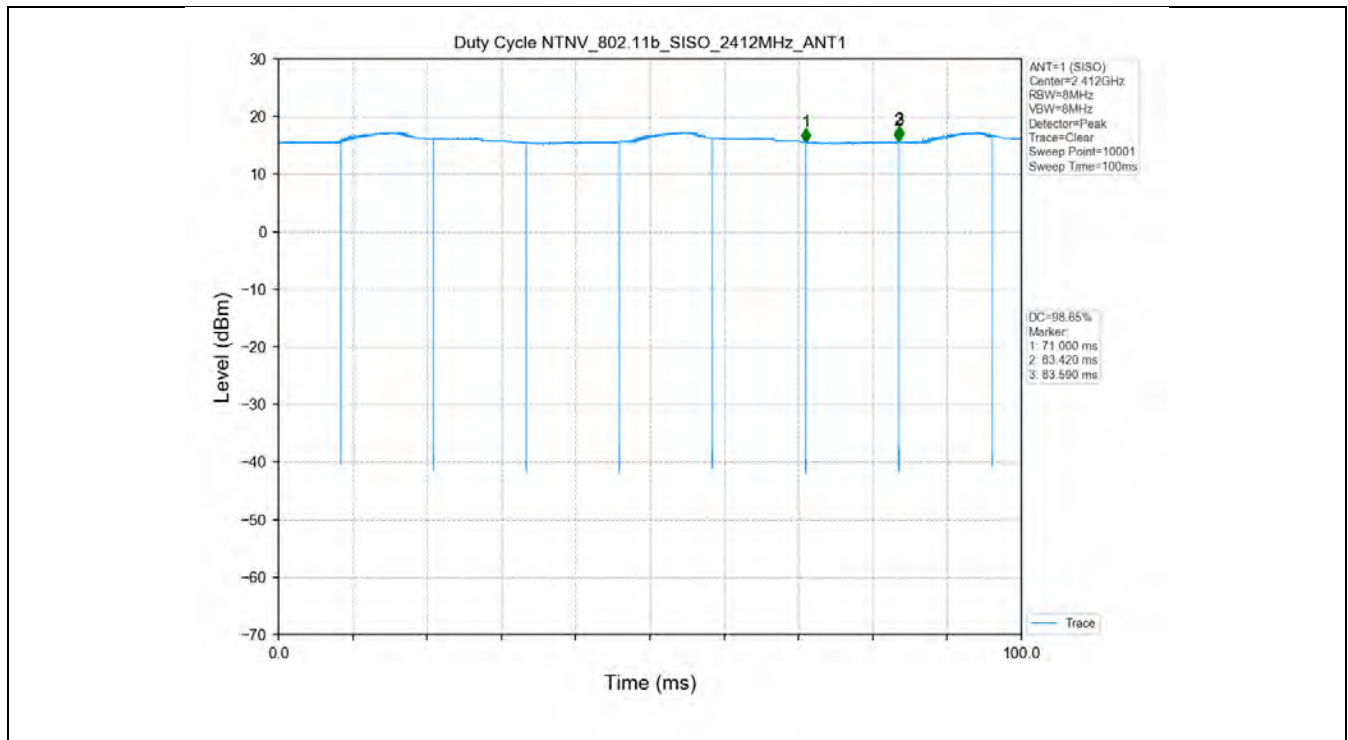
Appendix A for SHEM200700639901

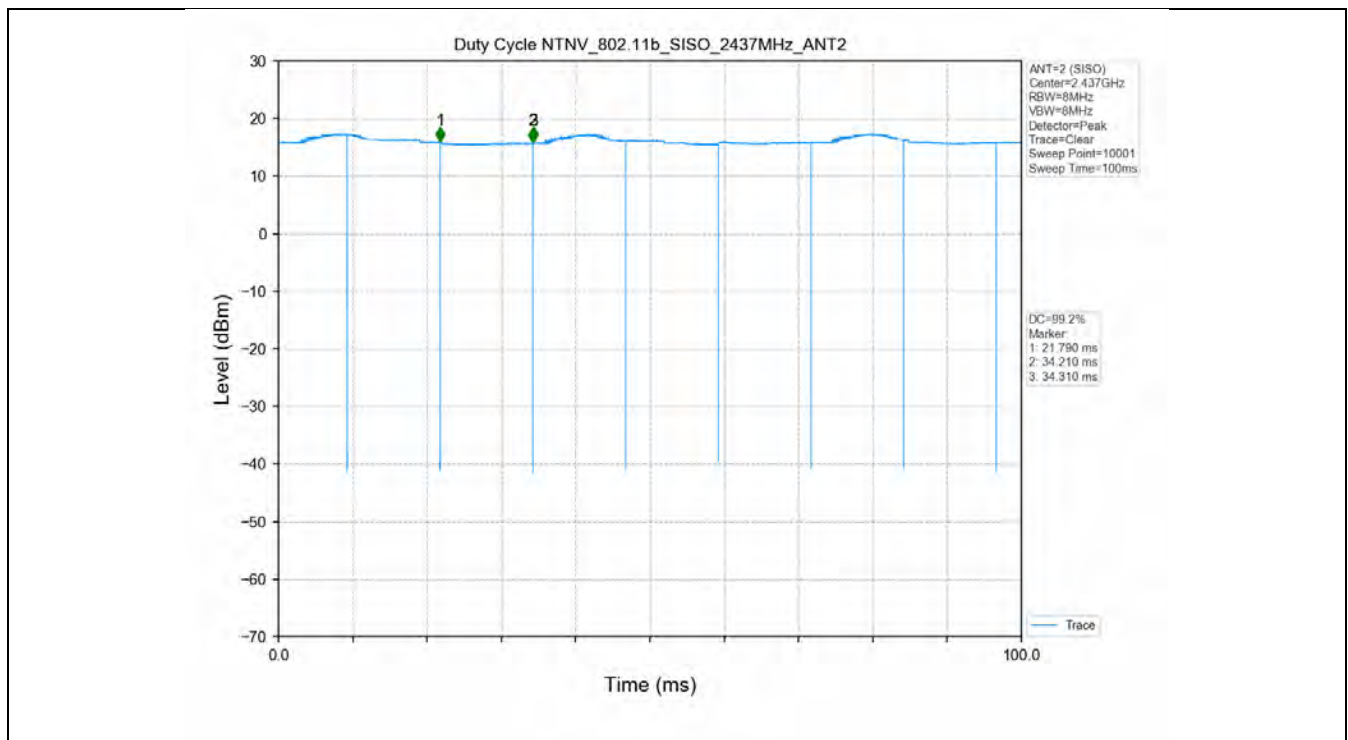
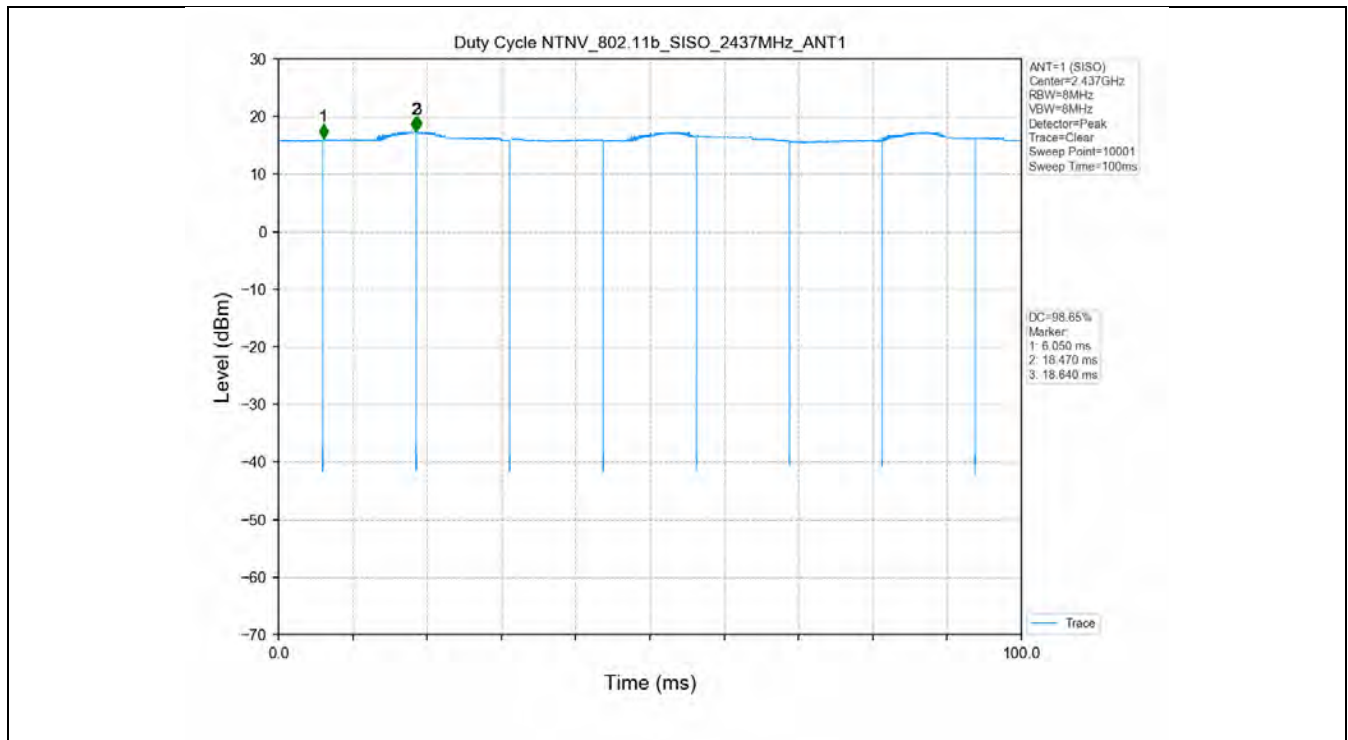
1. Duty Cycle

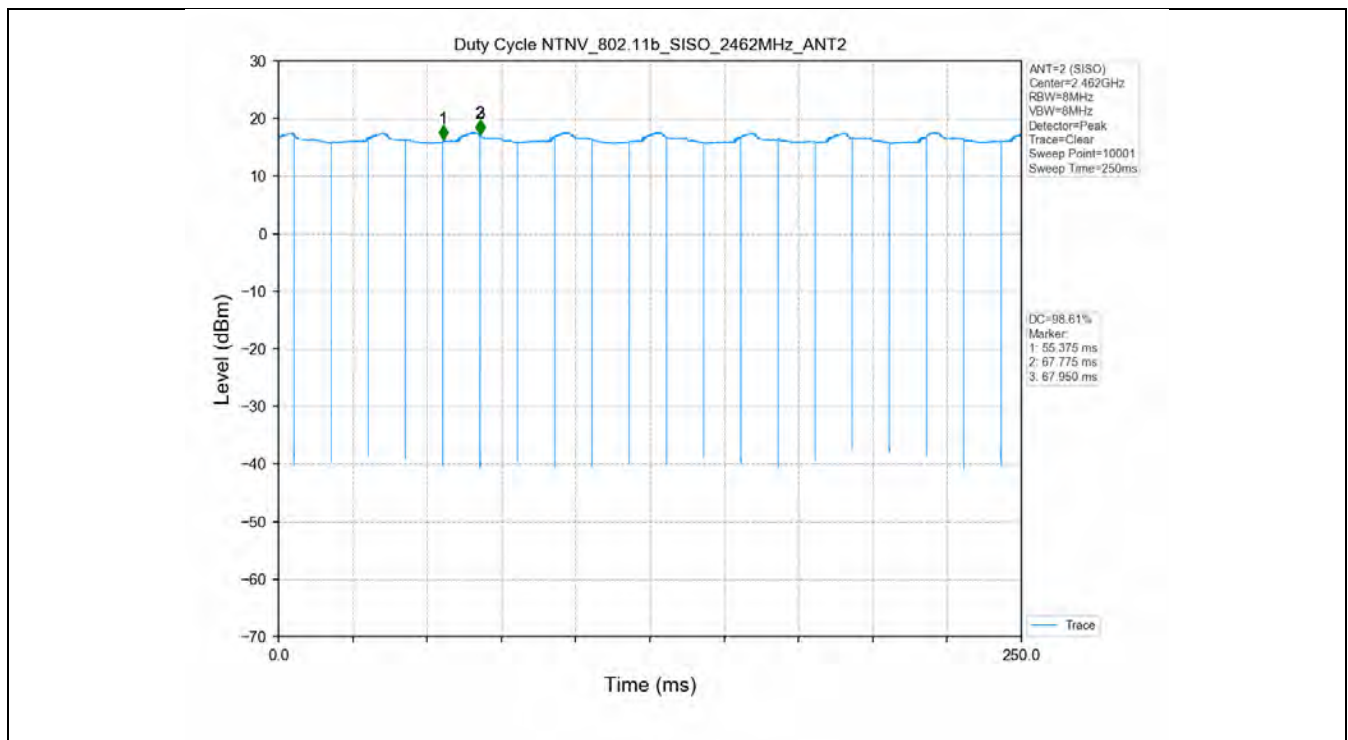
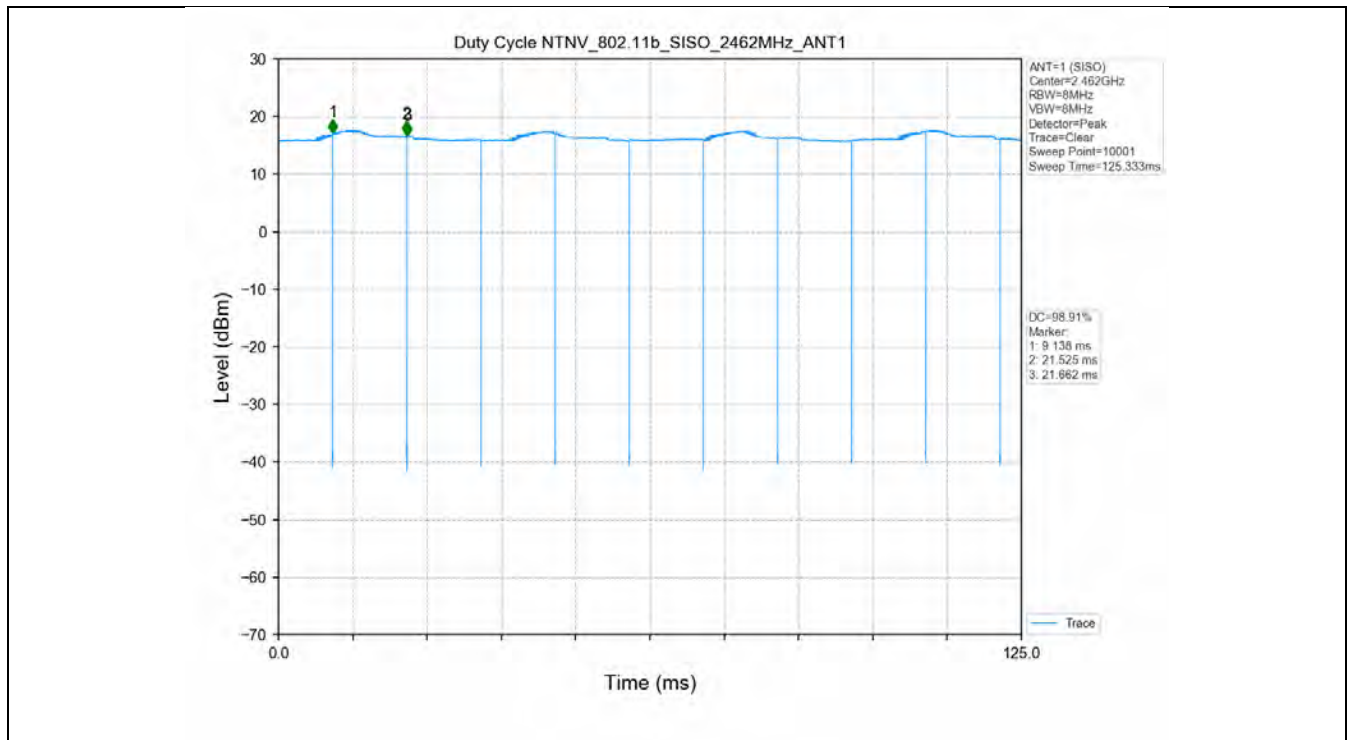
1.1 Test Result

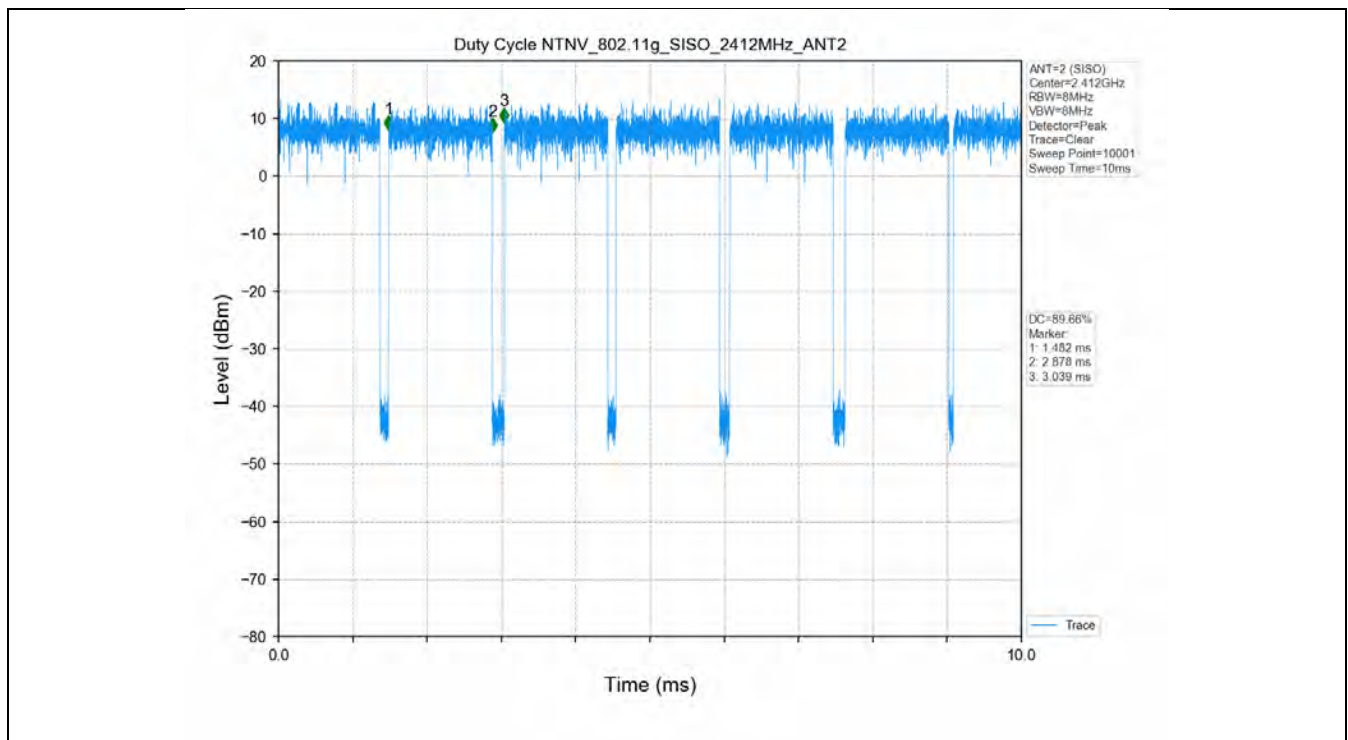
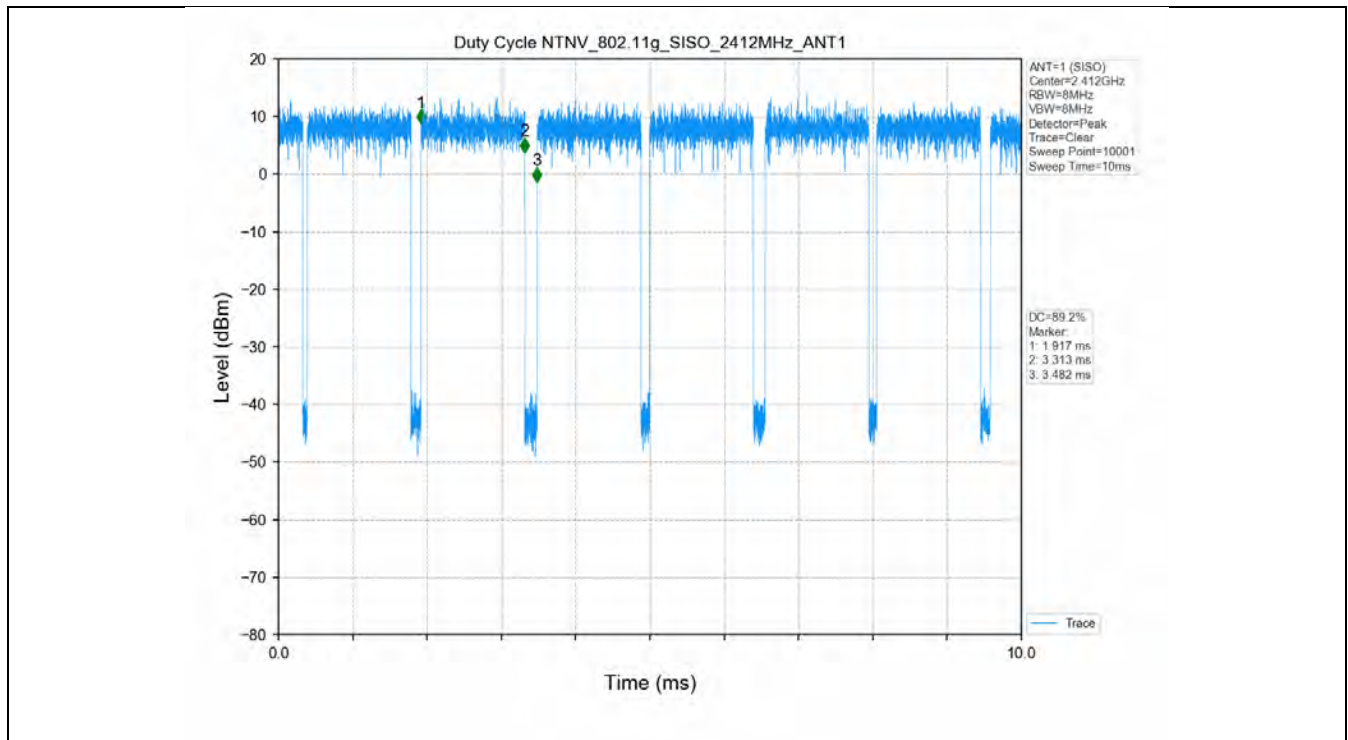
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.420	12.590	98.65	0.06
			2	12.392	12.559	98.67	0.06
	2437	SISO	1	12.420	12.590	98.65	0.06
			2	12.420	12.520	99.20	0.03
	2462	SISO	1	12.387	12.524	98.91	0.05
			2	12.400	12.575	98.61	0.06
802.11g	2412	SISO	1	1.396	1.565	89.20	0.50
			2	1.396	1.557	89.66	0.47
	2437	SISO	1	1.355	1.511	89.68	0.47
			2	1.395	1.574	88.63	0.52
	2462	SISO	1	1.396	1.574	88.69	0.52
			2	1.356	1.494	90.76	0.42
802.11n(HT20)	2412	MIMO	1	1.308	1.433	91.28	0.40
			2	1.262	1.426	88.50	0.53
	2437	MIMO	1	1.261	1.373	91.84	0.37
			2	1.261	1.425	88.49	0.53
	2462	MIMO	1	1.308	1.451	90.14	0.45
			2	1.308	1.469	89.04	0.50

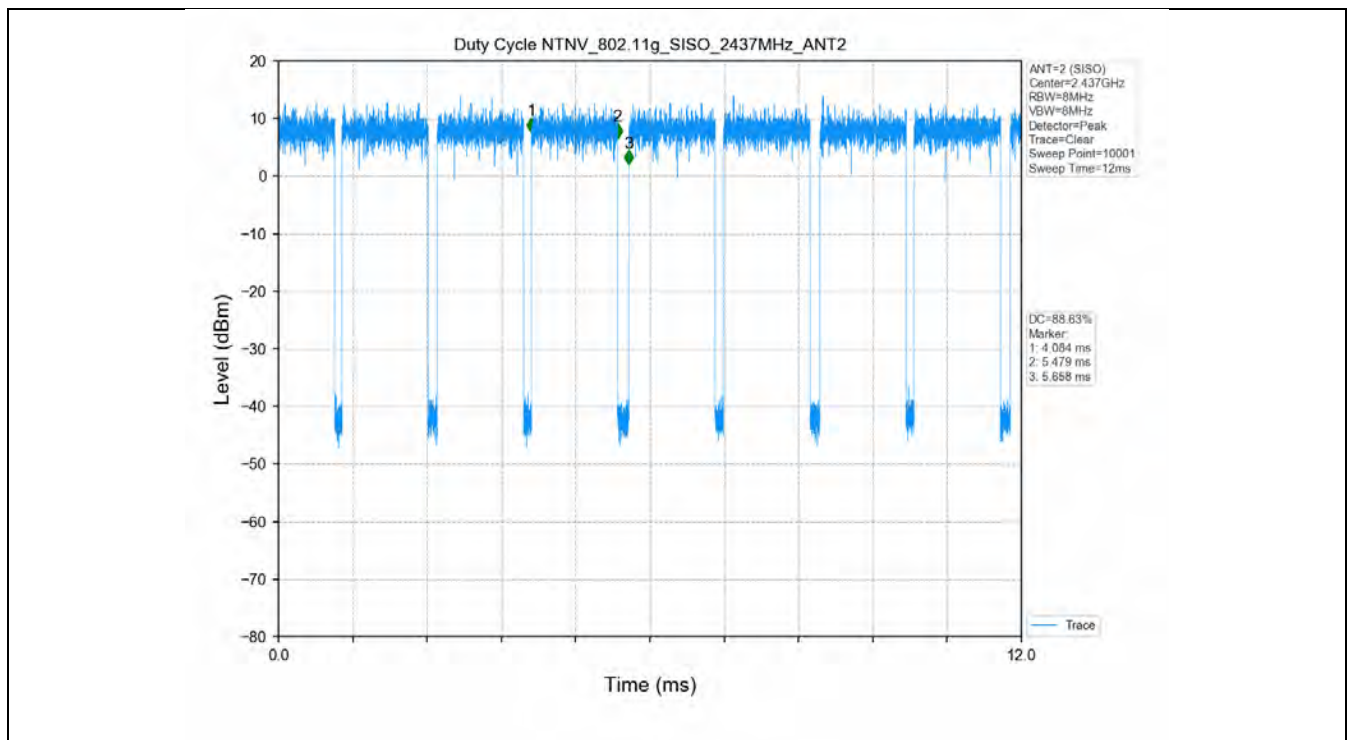
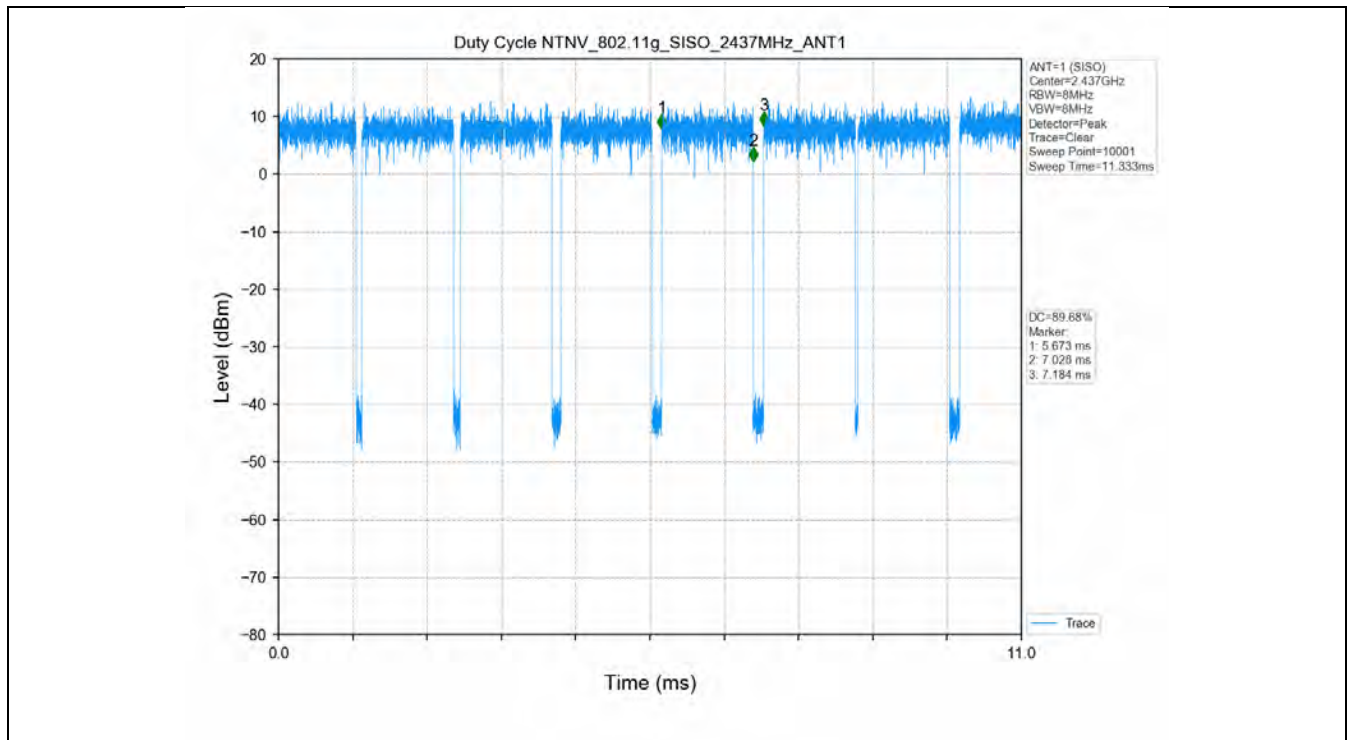
1.2 Test Graph

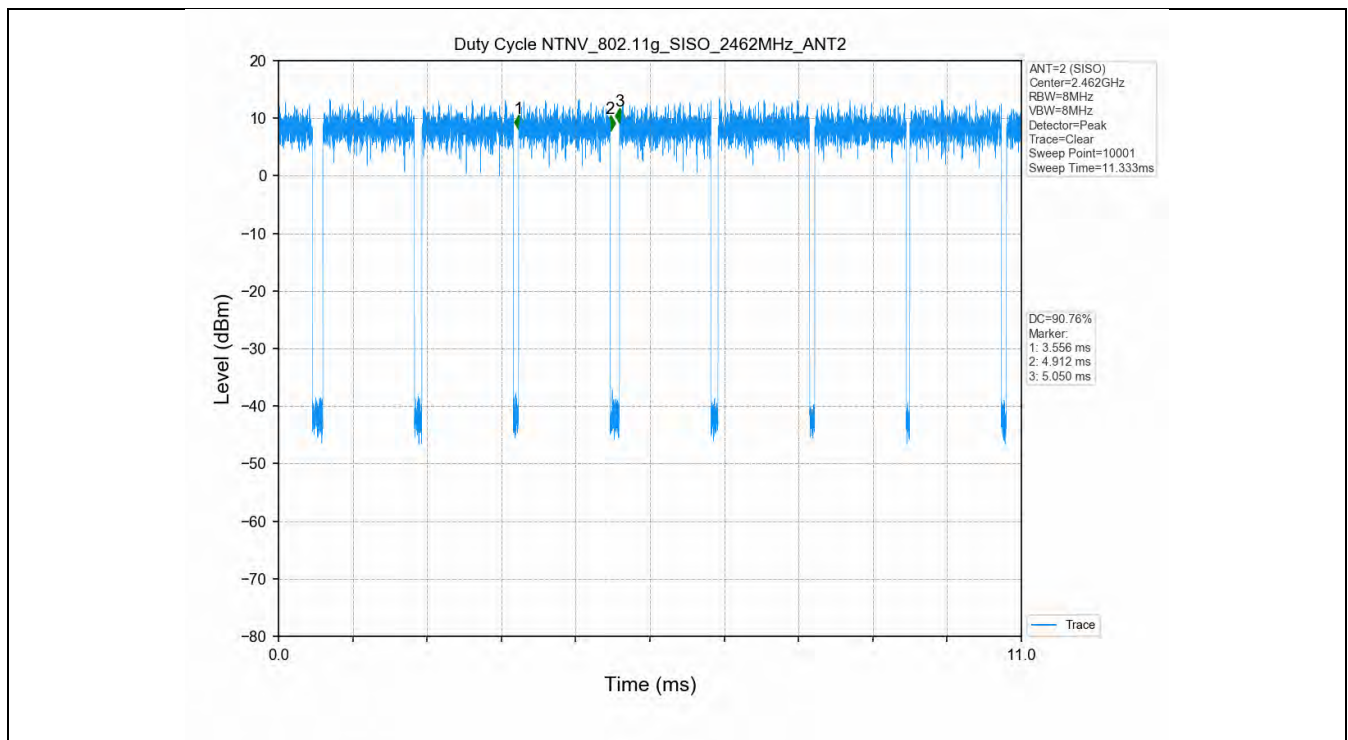
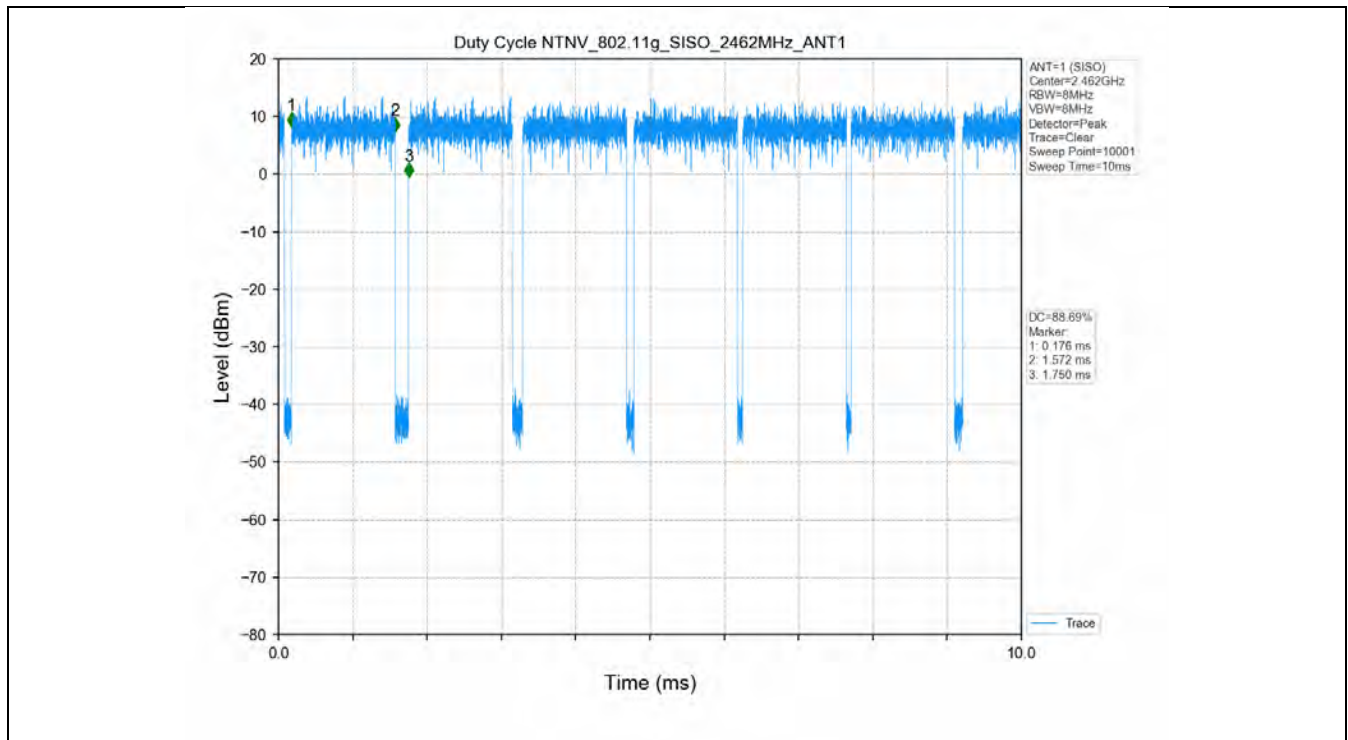


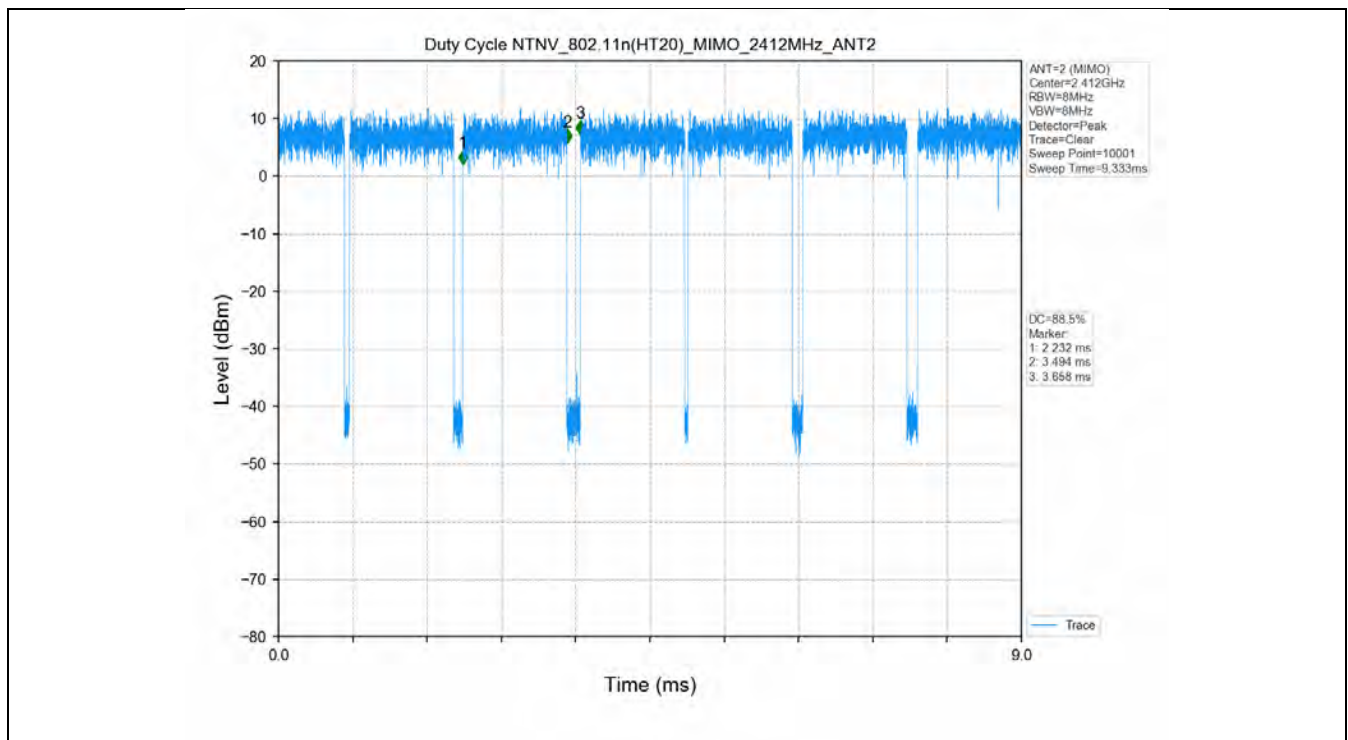
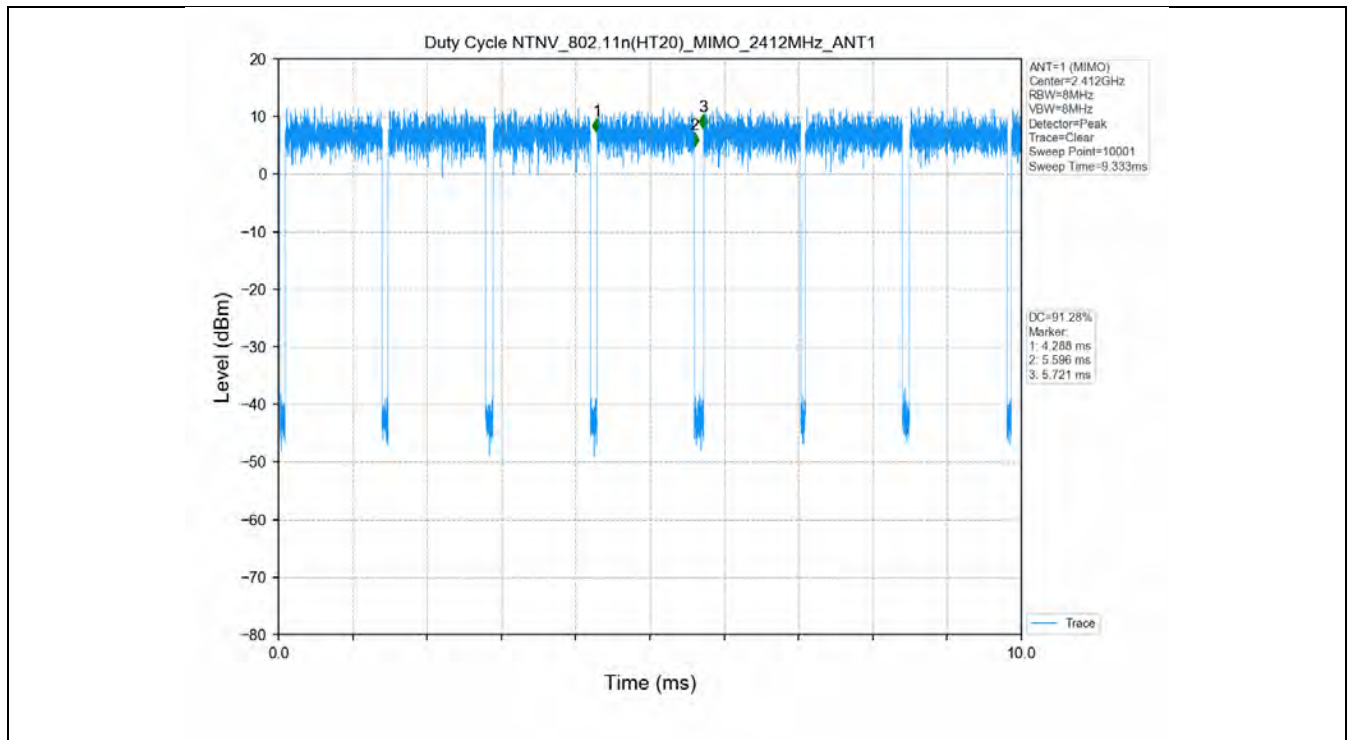


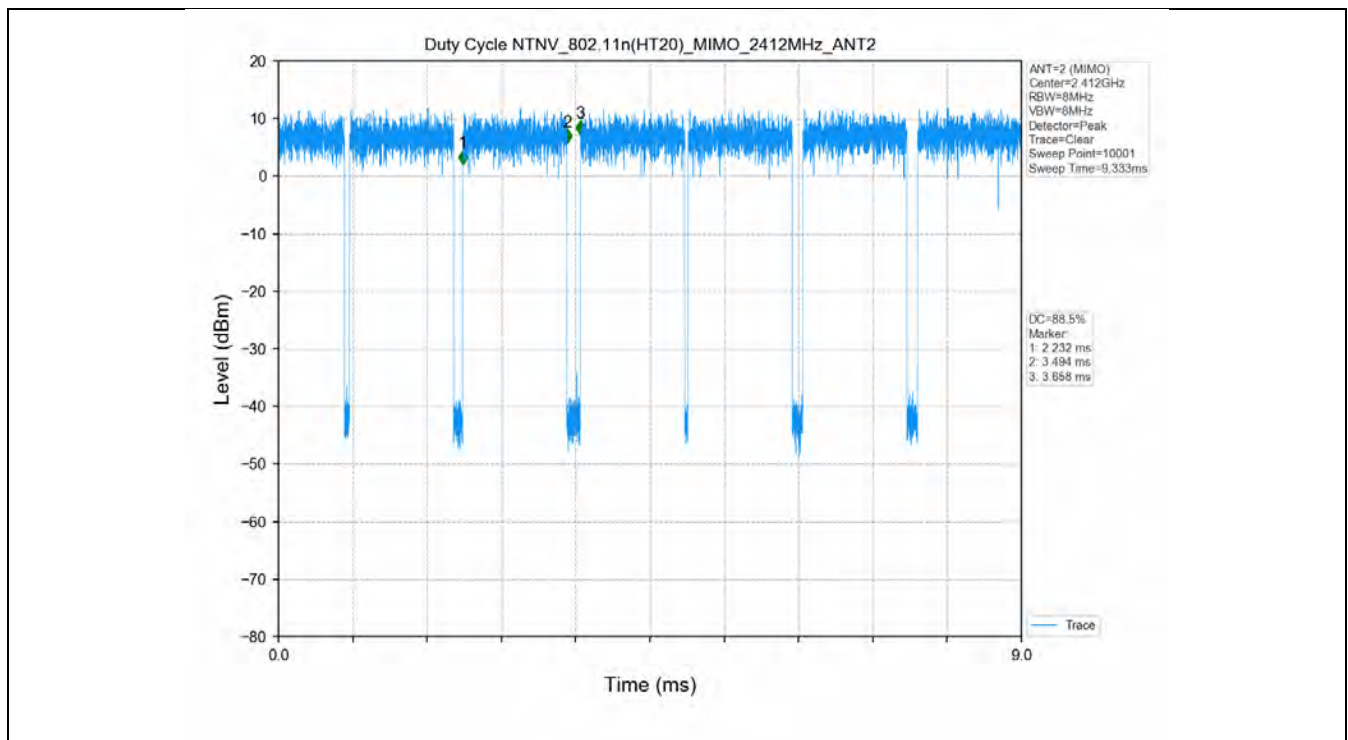
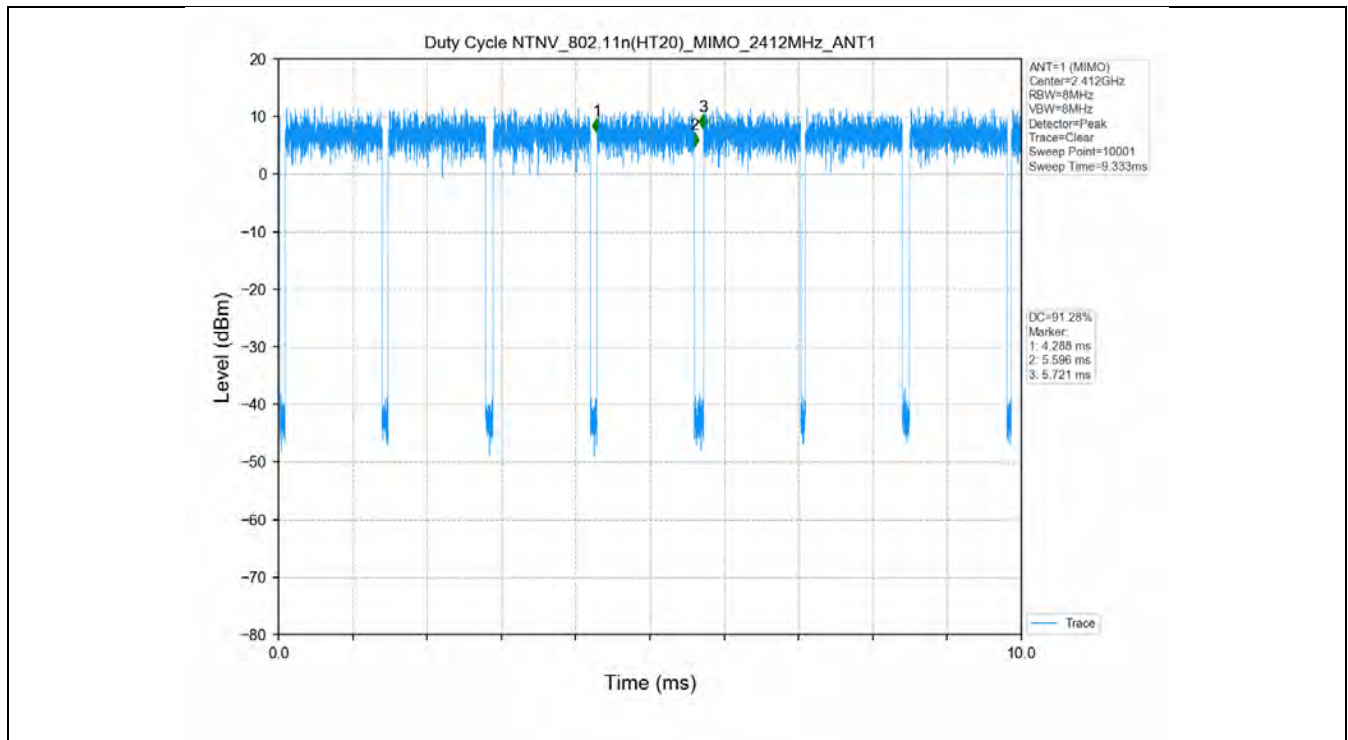


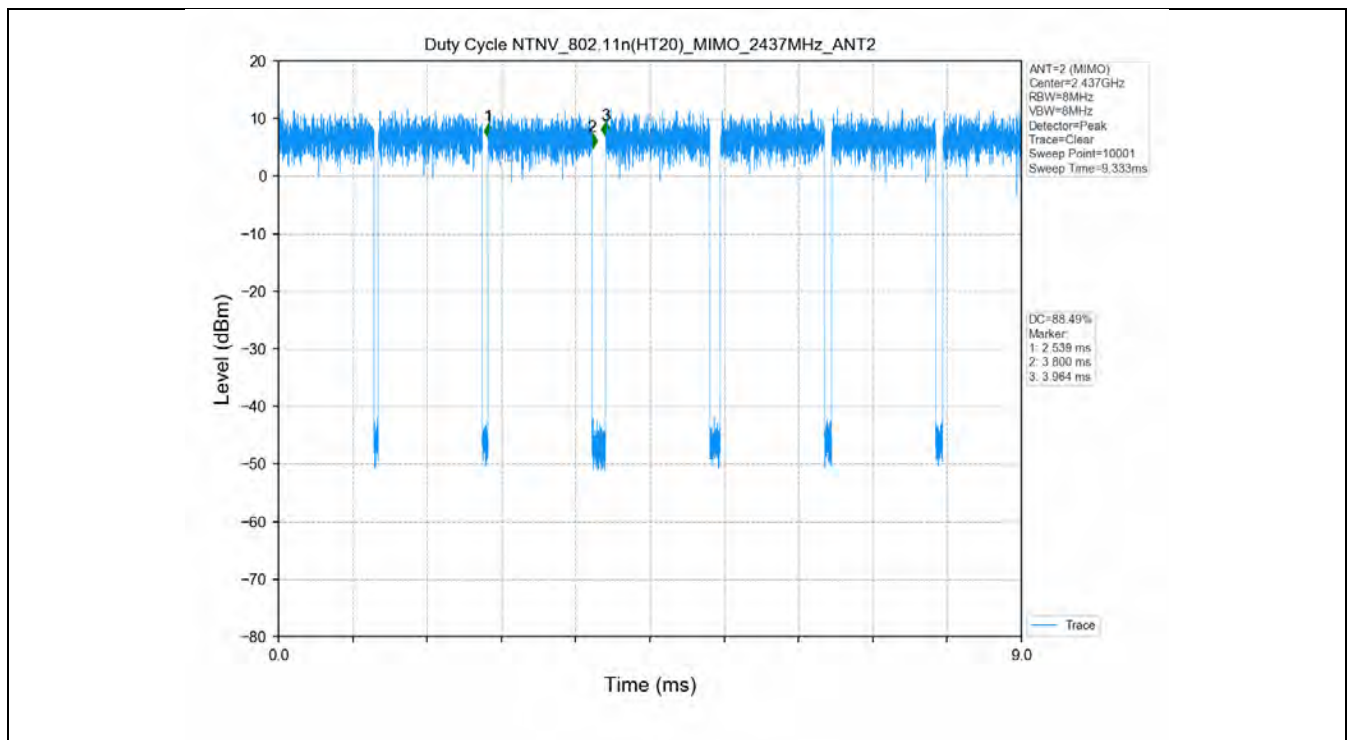
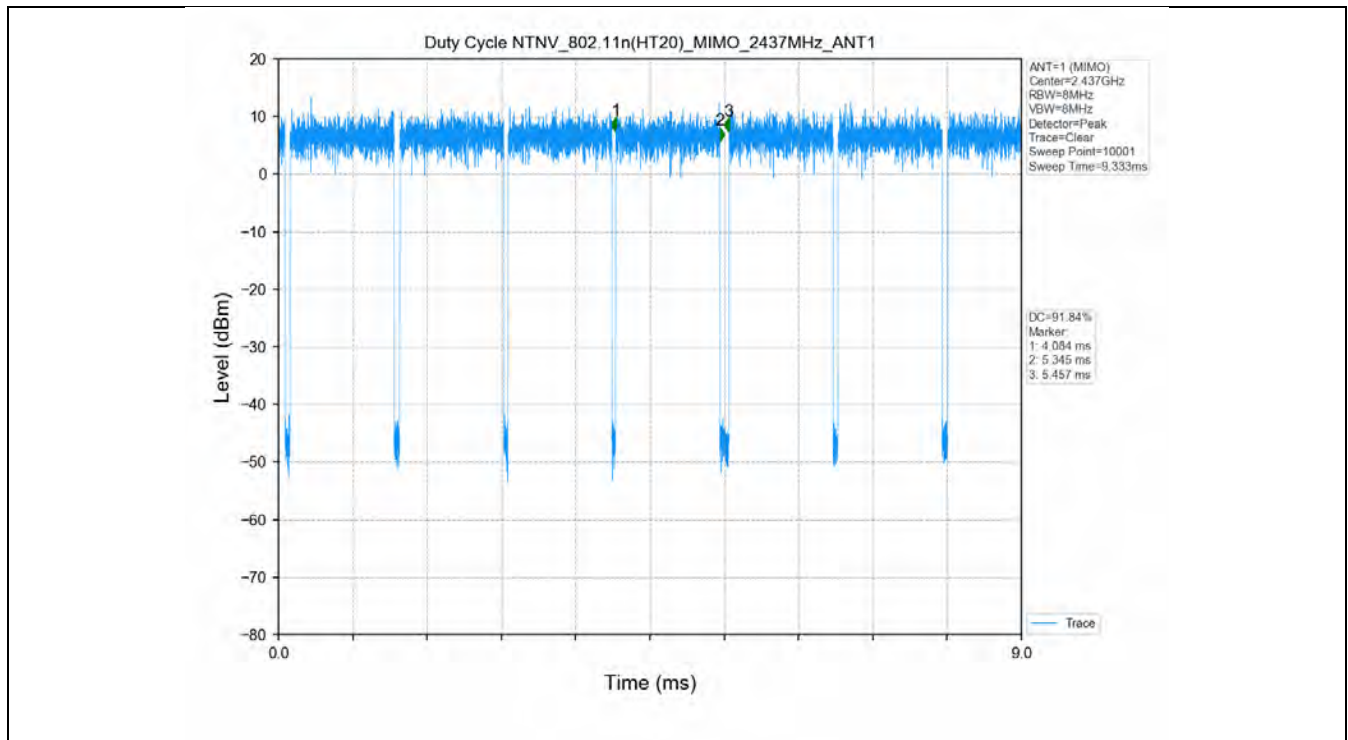


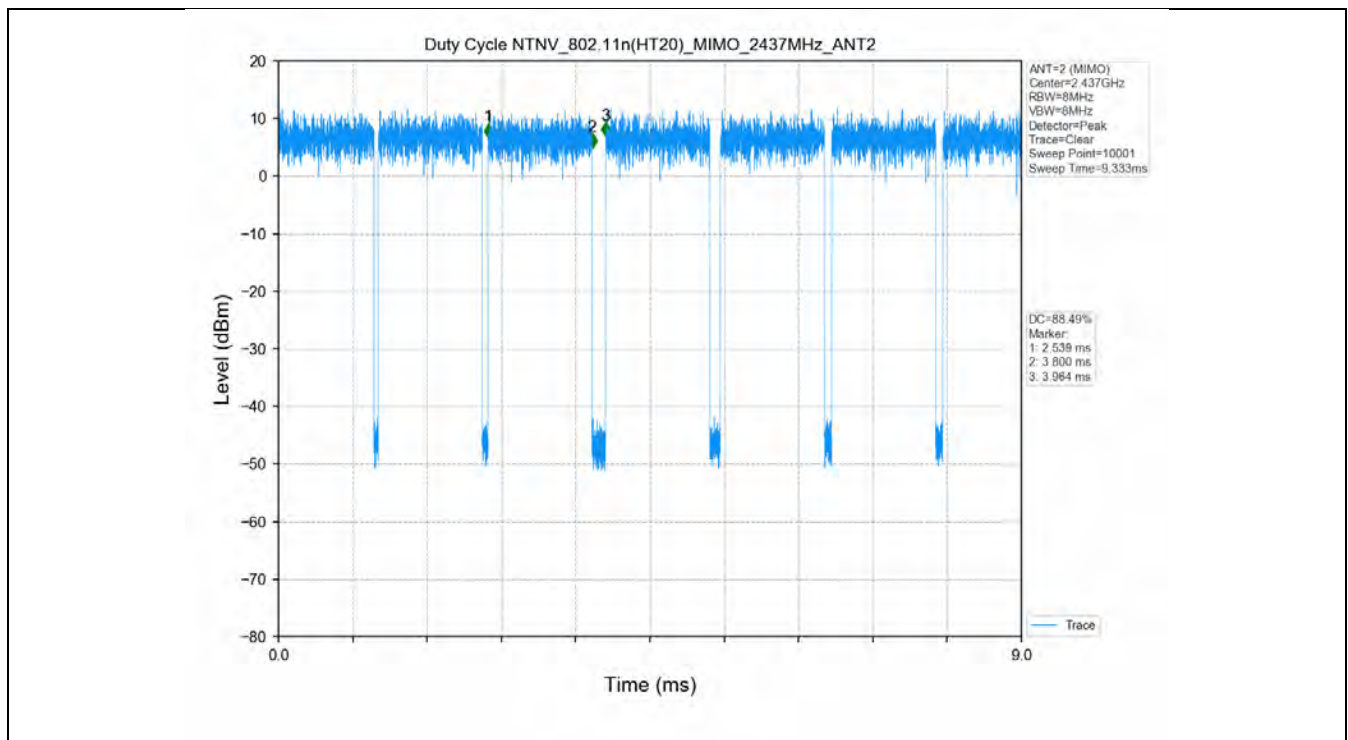
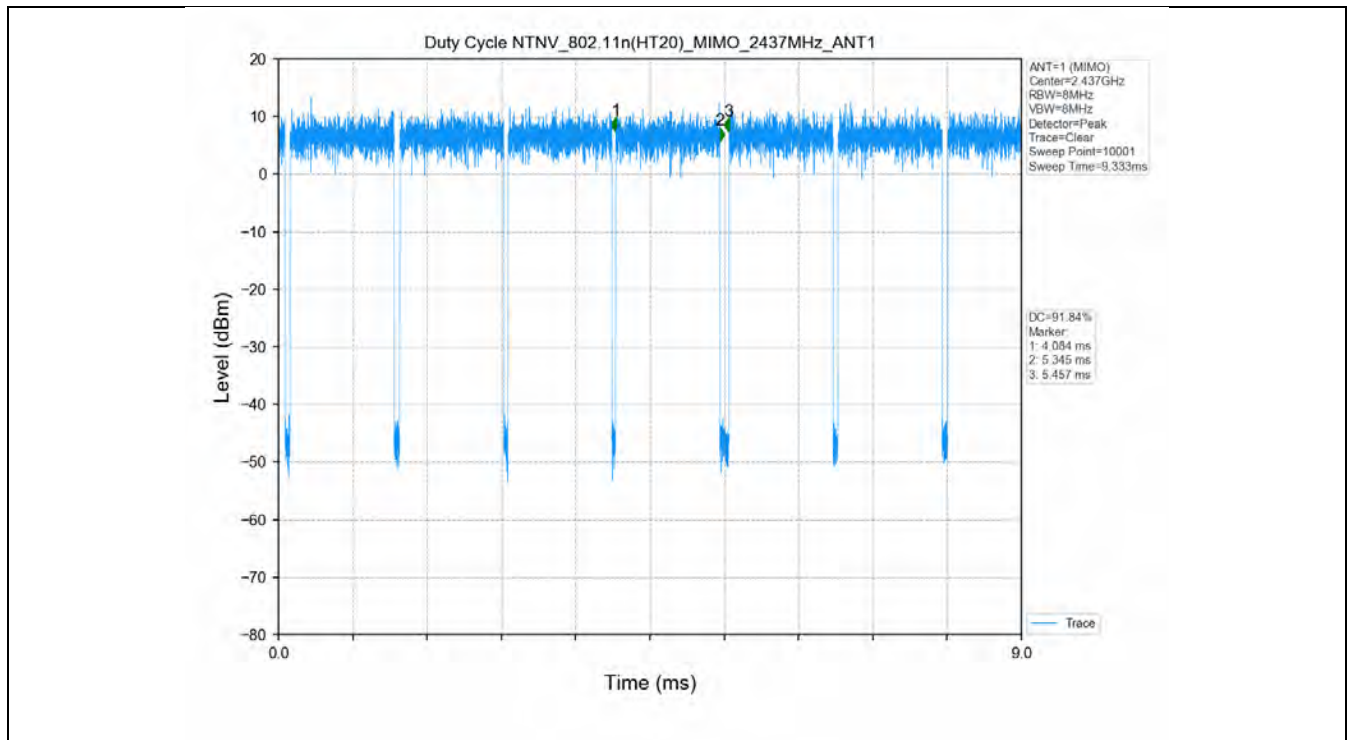


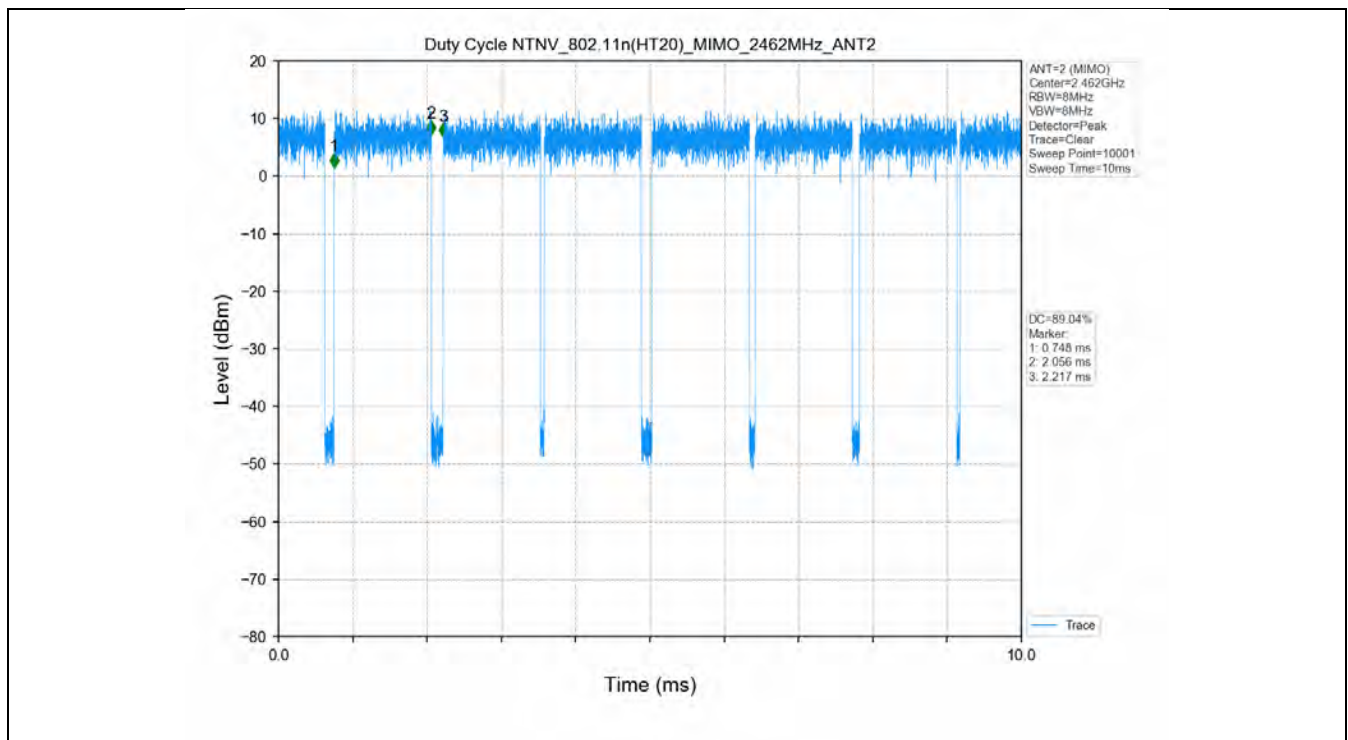
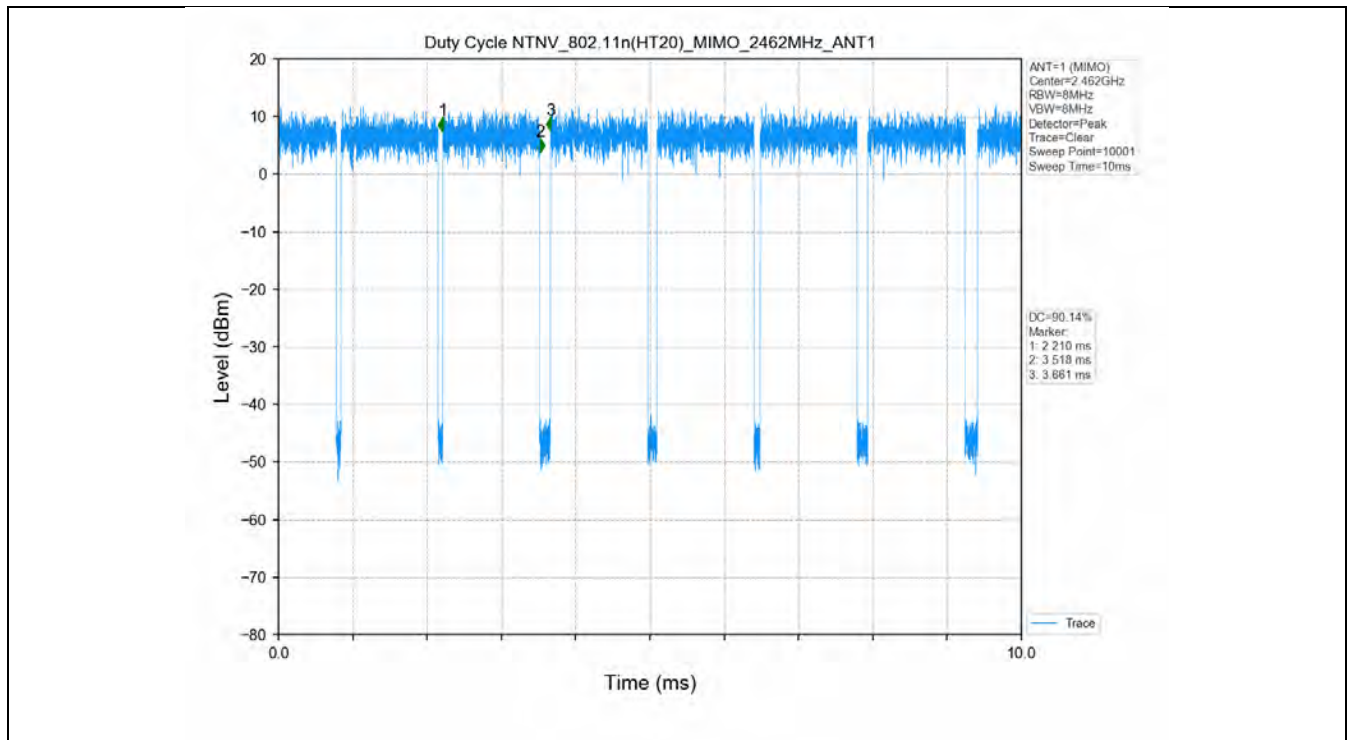


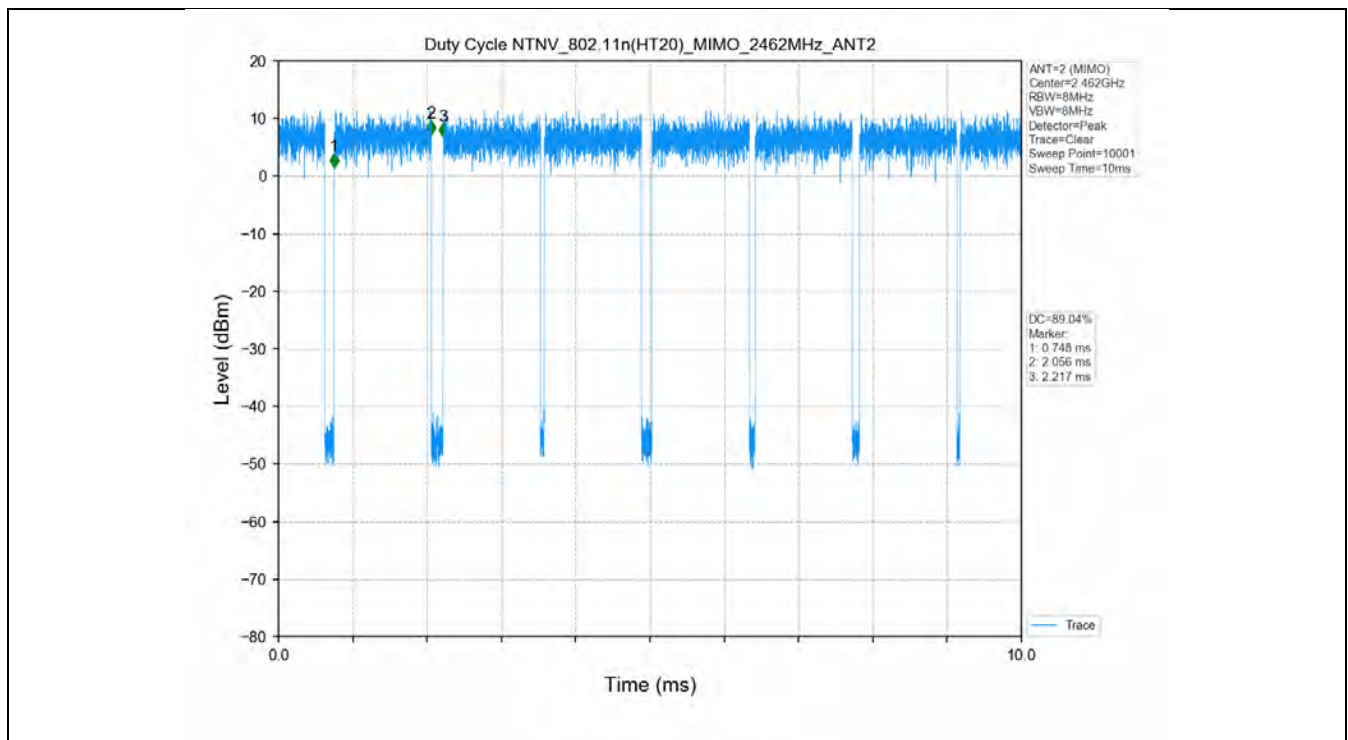
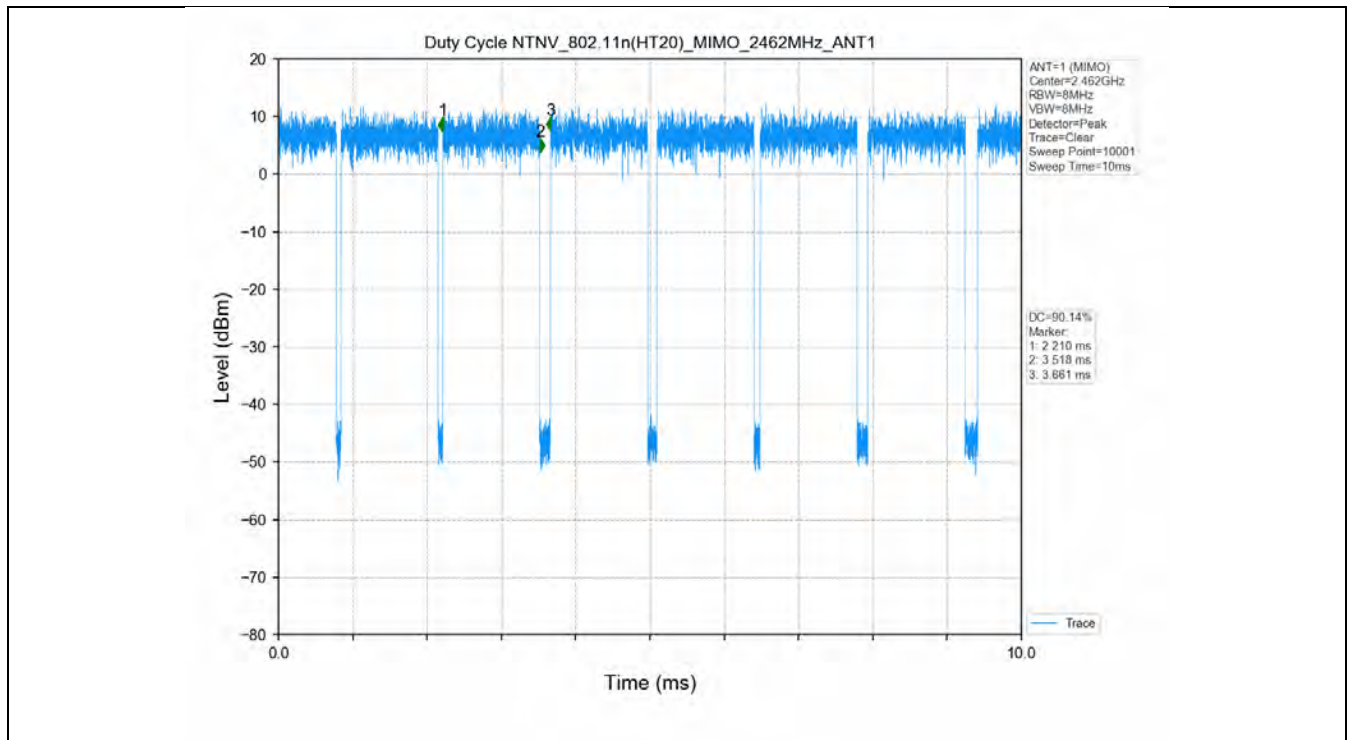














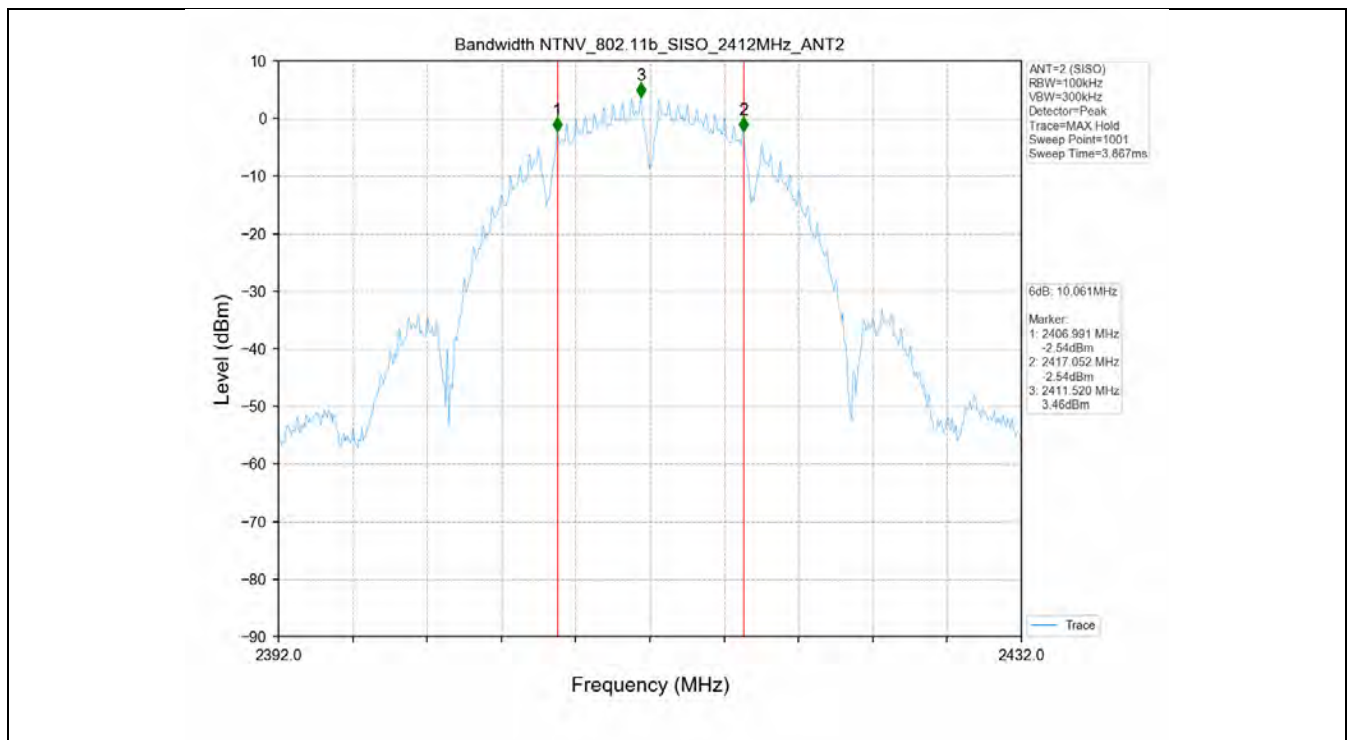
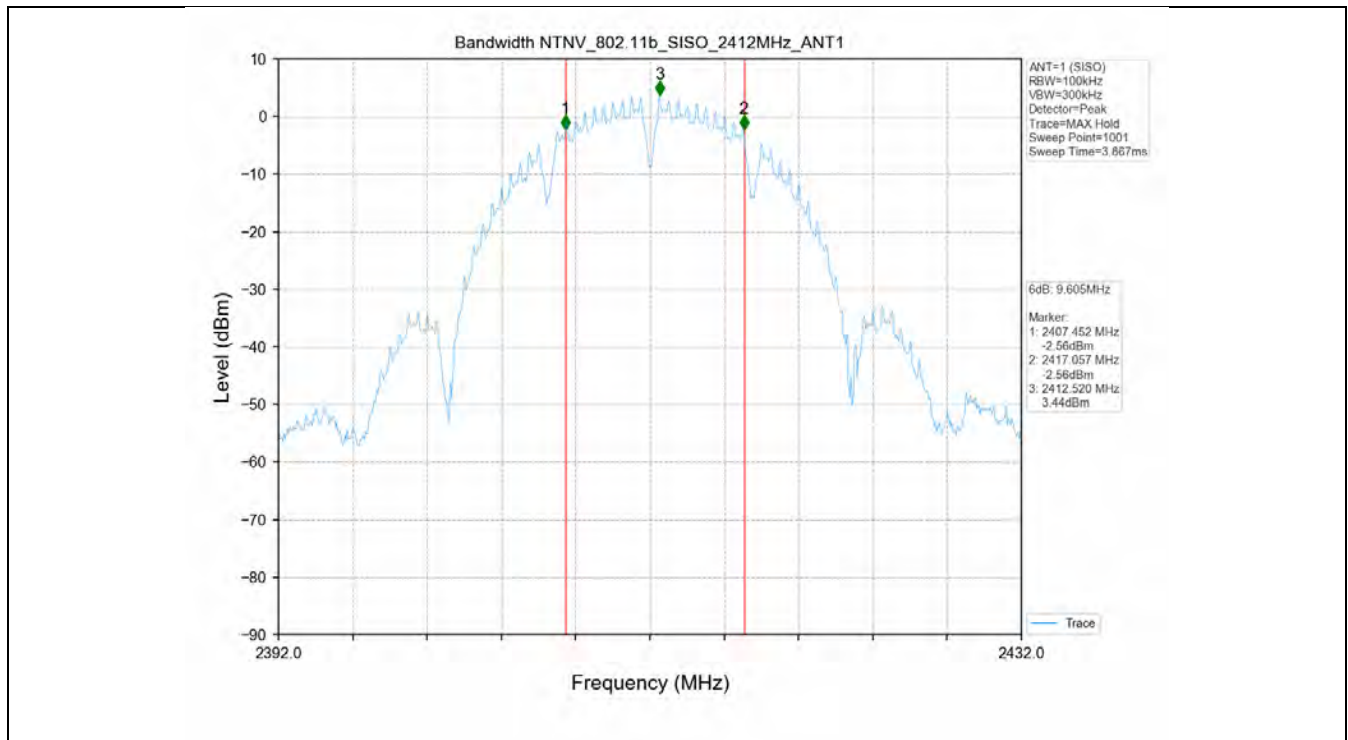
2. Bandwidth

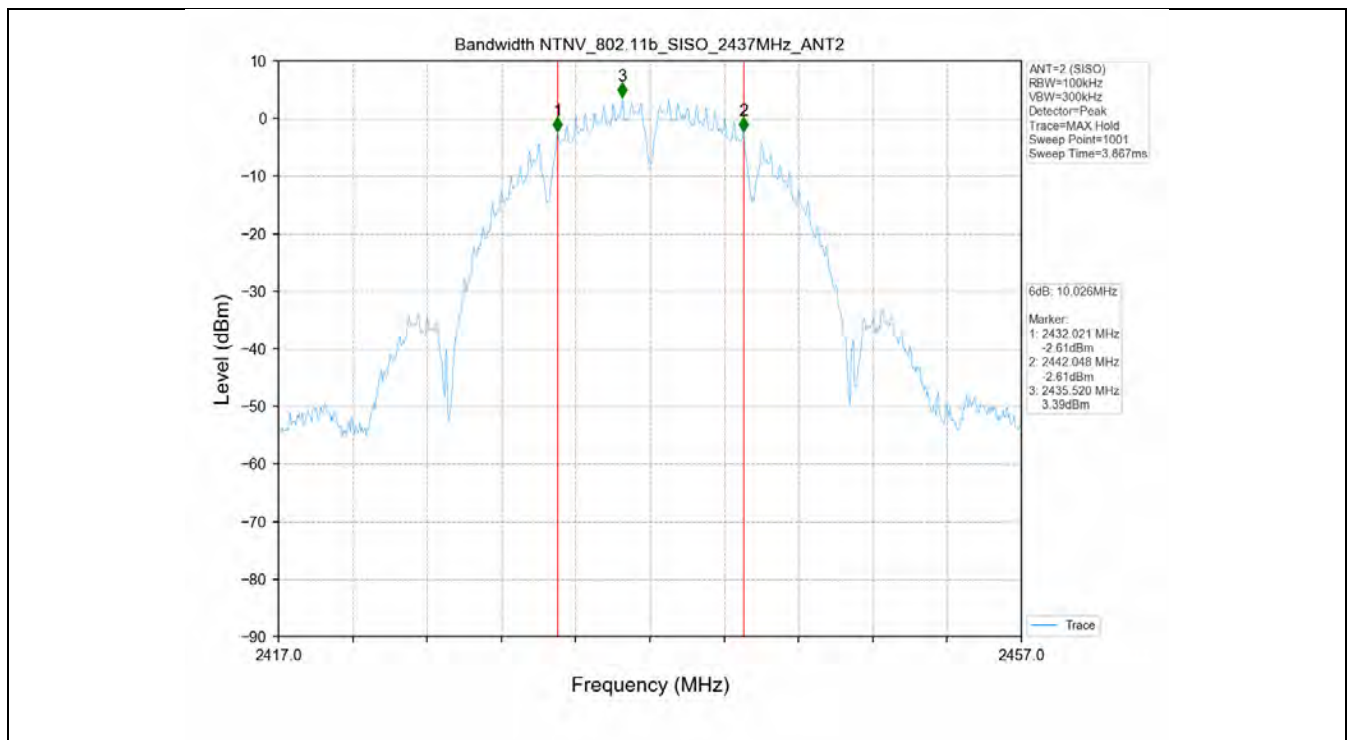
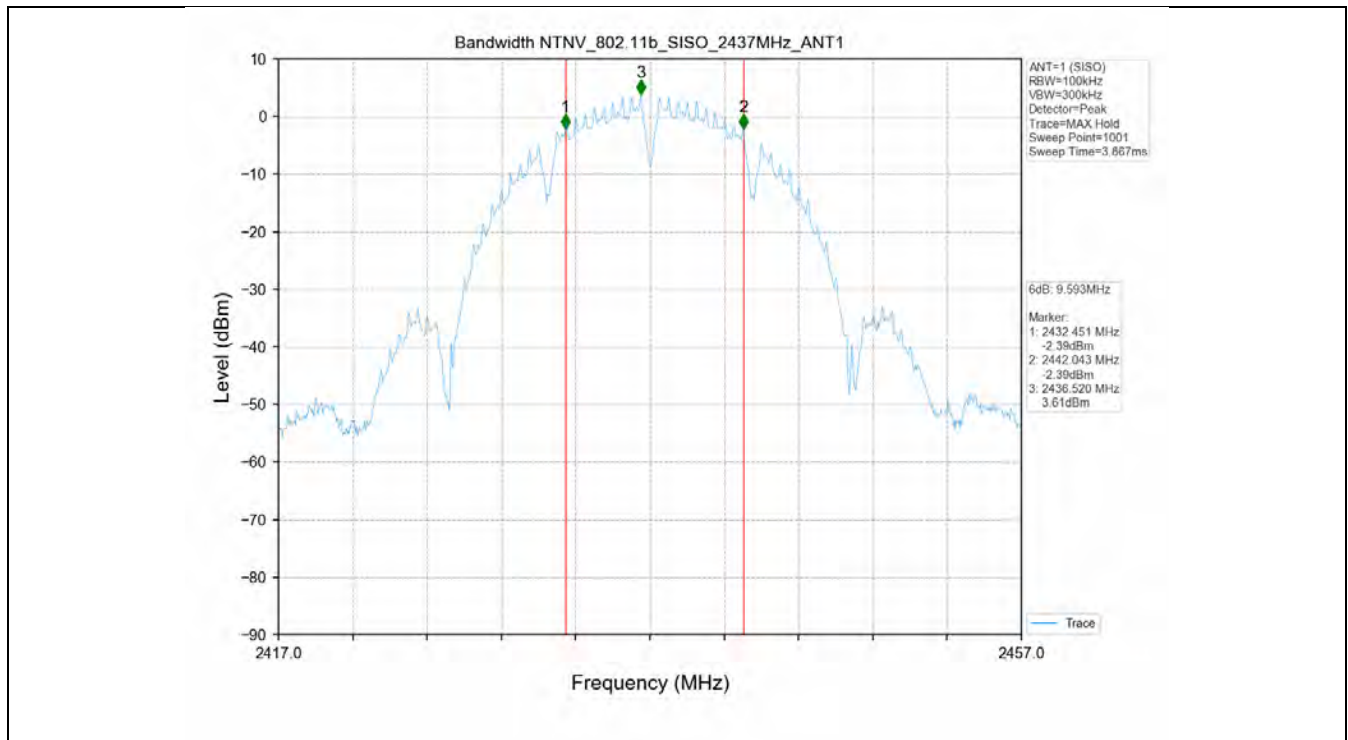
2.1 Test Result

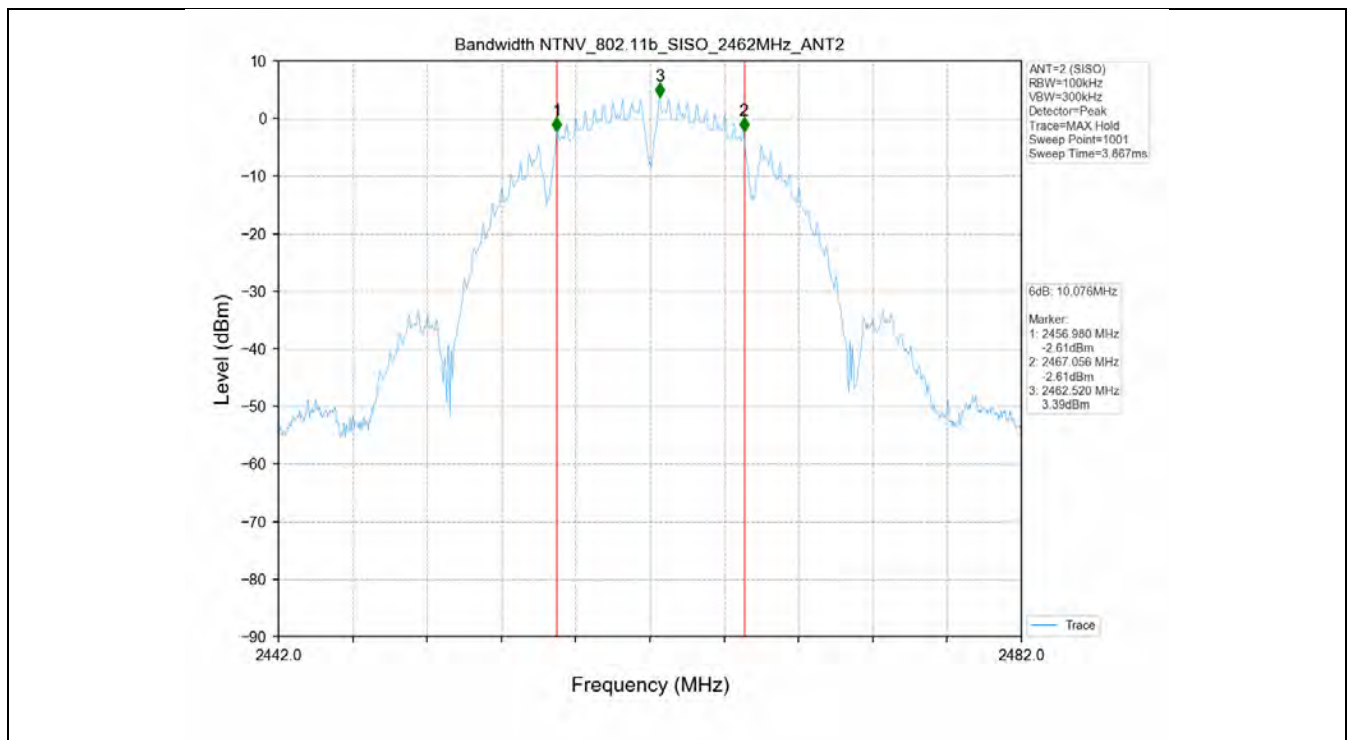
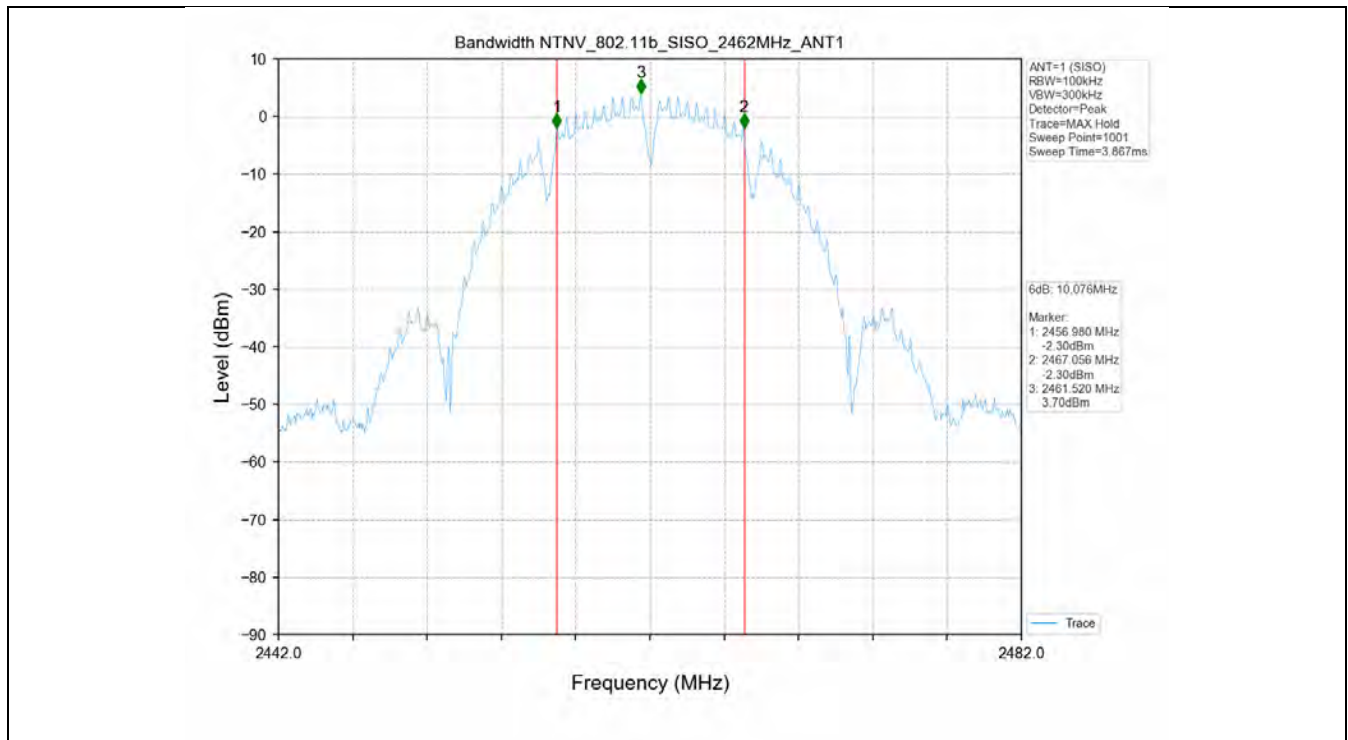
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth					Verdict
				Test Result (MHz)	Limits (MHz)	1.5*BW (MHz)	Span using in the PSD (MHz)	Span using in the Power (MHz)	
802.11b	2412	SISO	1	9.605	≥0.5	14.408	14.408	14.408	PASS
			2	10.061	≥0.5	15.092	15.092	15.092	PASS
	2437	SISO	1	9.593	≥0.5	14.390	14.390	14.390	PASS
			2	10.026	≥0.5	15.039	15.039	15.039	PASS
	2462	SISO	1	10.076	≥0.5	15.114	15.114	15.114	PASS
			2	10.076	≥0.5	15.114	15.114	15.114	PASS
802.11g	2412	SISO	1	15.152	≥0.5	22.728	22.728	22.728	PASS
			2	15.103	≥0.5	22.655	22.655	22.655	PASS
	2437	SISO	1	15.146	≥0.5	22.719	22.719	22.719	PASS
			2	14.47	≥0.5	21.705	21.705	21.705	PASS
	2462	SISO	1	15.099	≥0.5	22.649	22.649	22.649	PASS
			2	15.14	≥0.5	22.710	22.710	22.710	PASS
802.11n(HT20)	2412	MIMO	1	15.133	≥0.5	22.700	22.700	22.700	PASS
			2	15.124	≥0.5	22.686	22.686	22.686	PASS
	2437	MIMO	1	15.123	≥0.5	22.685	22.685	22.685	PASS
			2	15.083	≥0.5	22.625	22.625	22.625	PASS
	2462	MIMO	1	17.583	≥0.5	26.375	26.375	26.375	PASS
			2	15.118	≥0.5	22.677	22.677	22.677	PASS

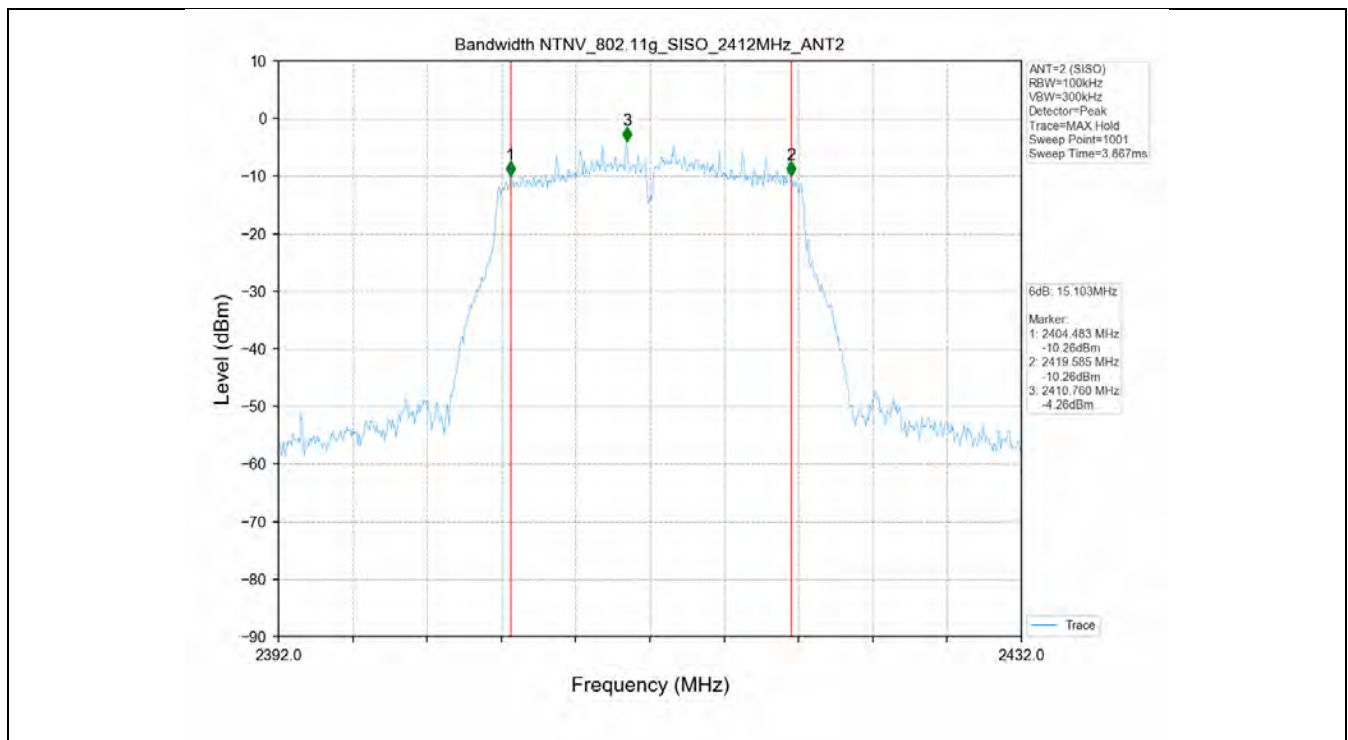
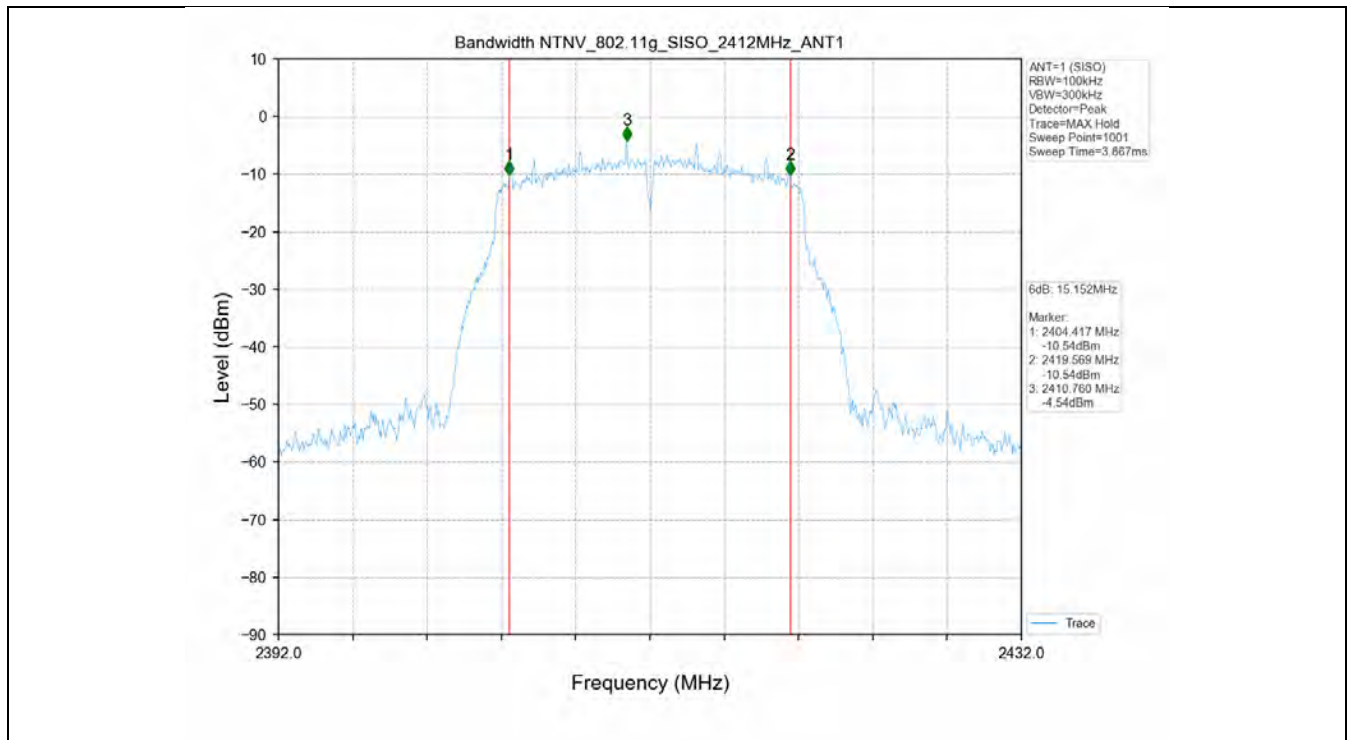
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.058	Only for Report Use
			2	15.059	Only for Report Use
	2437	SISO	1	15.064	Only for Report Use
			2	15.067	Only for Report Use
	2462	SISO	1	15.065	Only for Report Use
			2	15.060	Only for Report Use
802.11g	2412	SISO	1	16.688	Only for Report Use
			2	16.444	Only for Report Use
	2437	SISO	1	16.664	Only for Report Use
			2	16.436	Only for Report Use
	2462	SISO	1	16.680	Only for Report Use
			2	16.428	Only for Report Use
802.11n(HT20)	2412	MIMO	1	17.542	Only for Report Use
			2	17.485	Only for Report Use
	2437	MIMO	1	17.565	Only for Report Use
			2	17.493	Only for Report Use
	2462	MIMO	1	17.312	Only for Report Use
			2	17.482	Only for Report Use

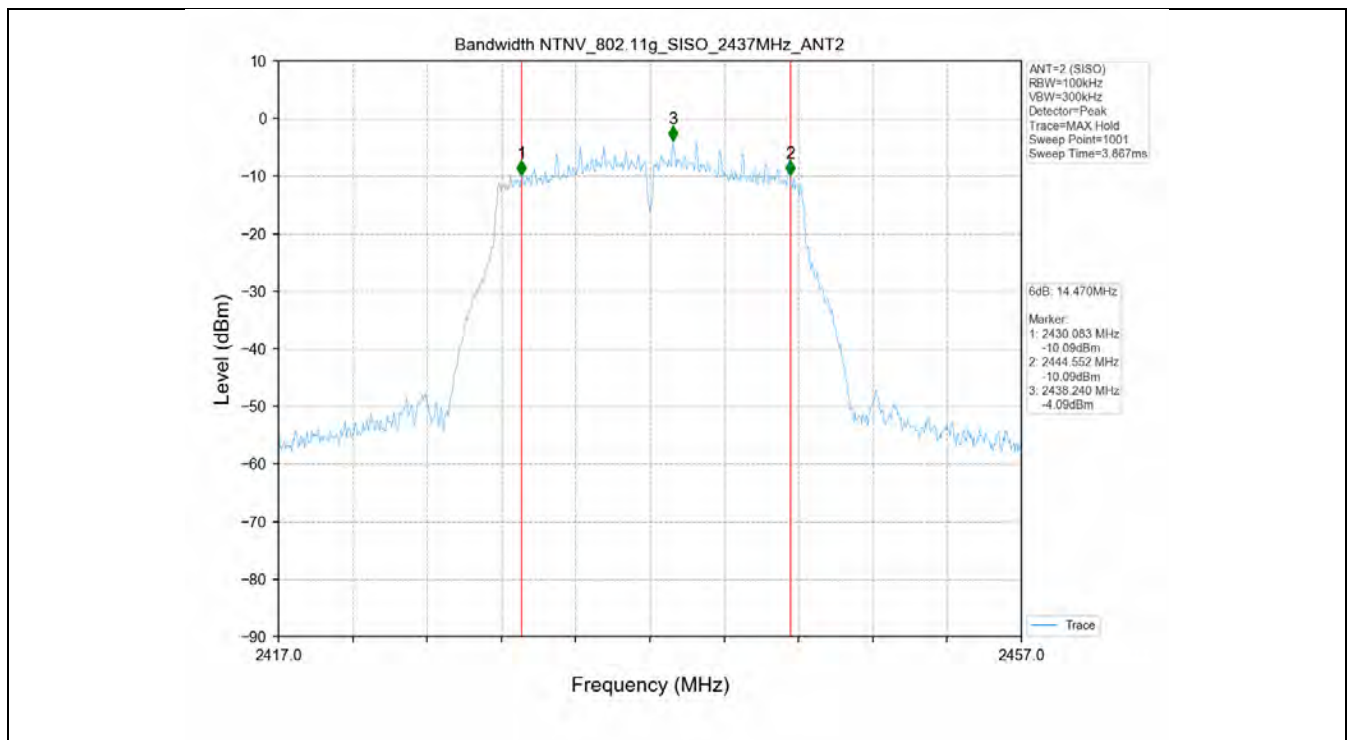
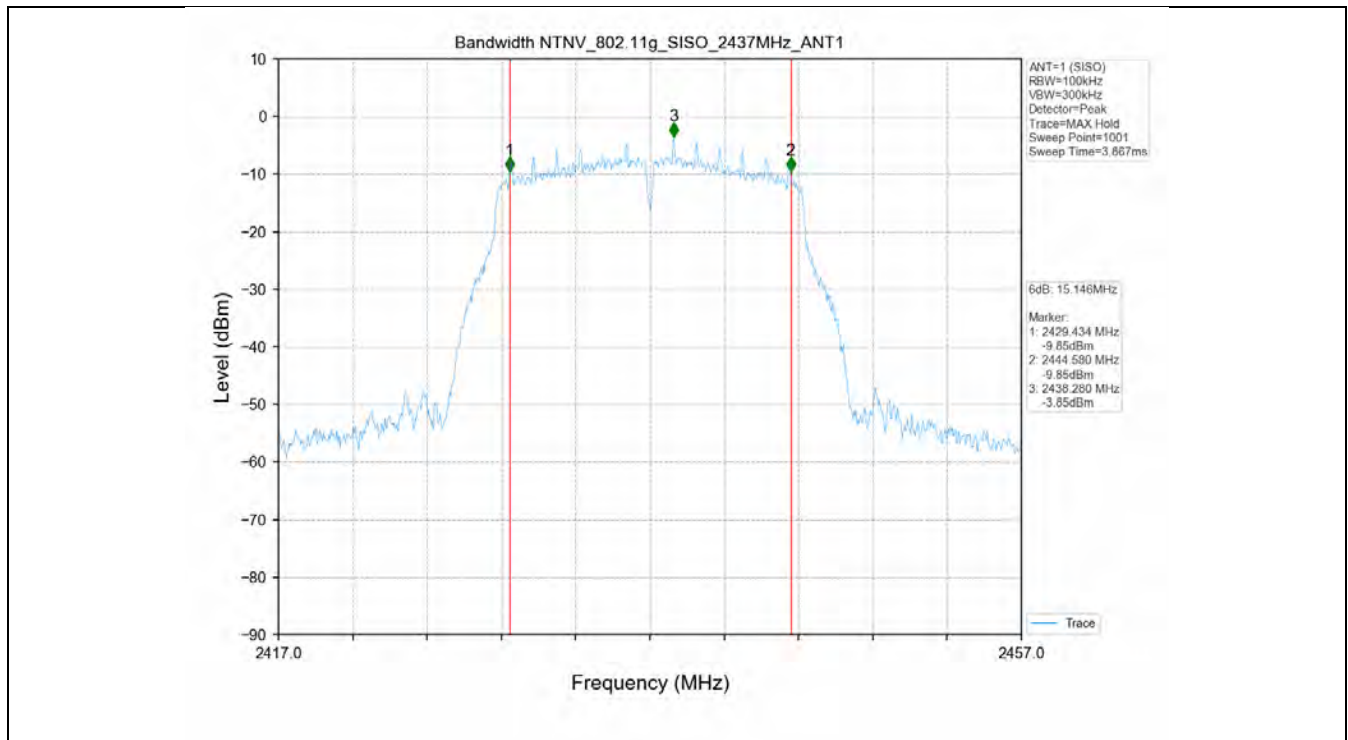
2.2 Test Graph - 6dB Bandwidth

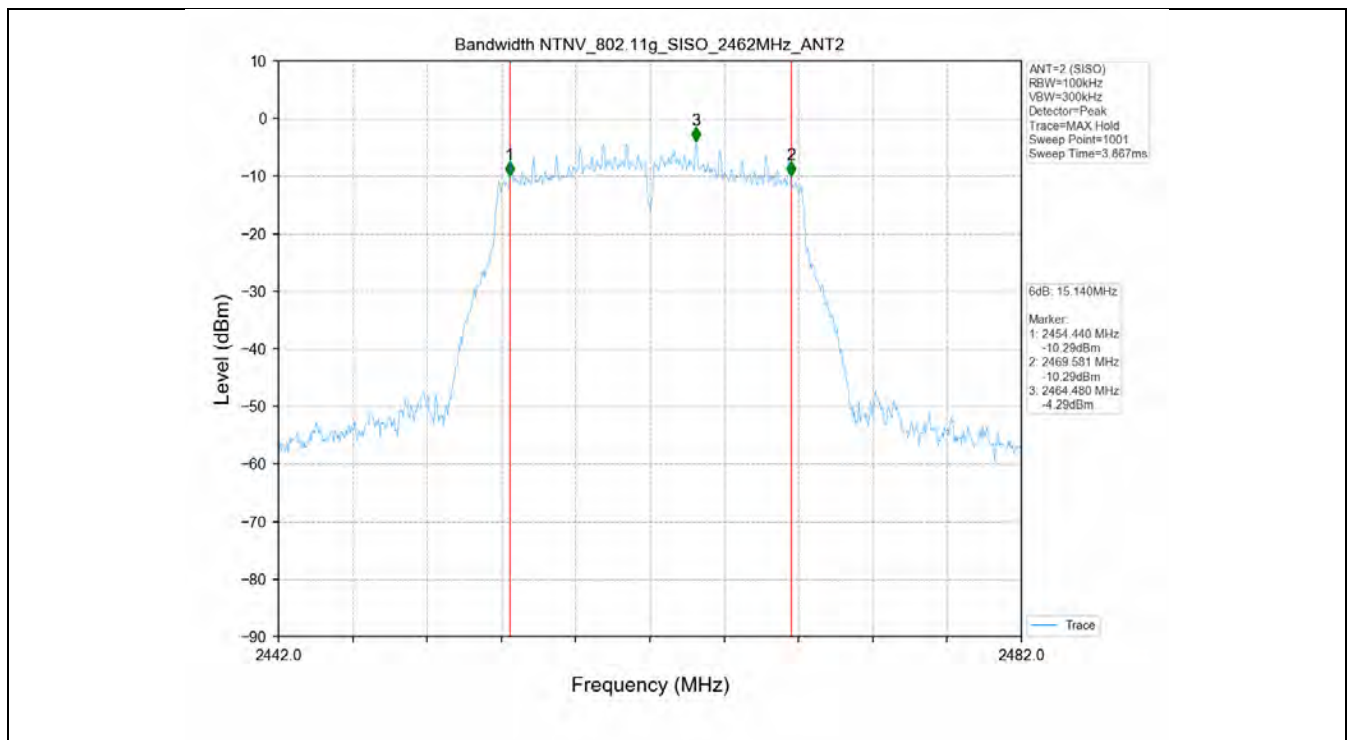
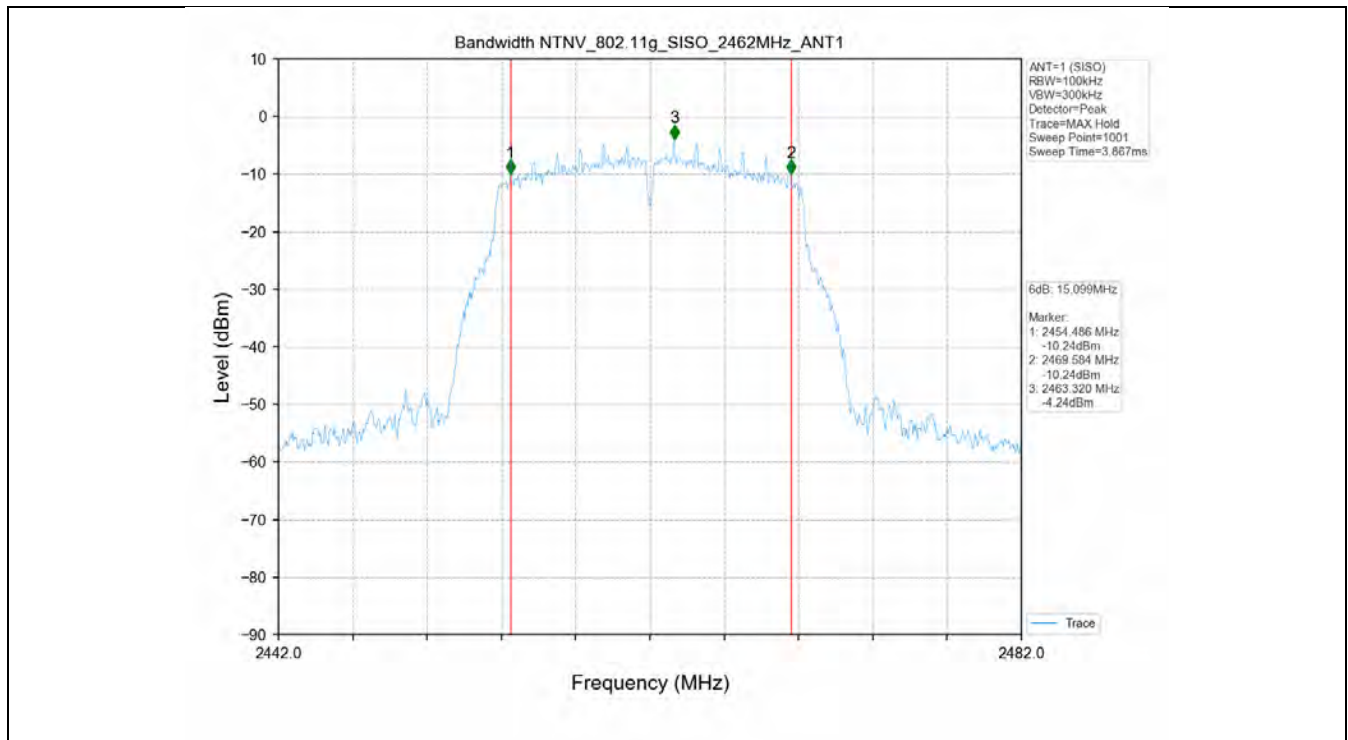


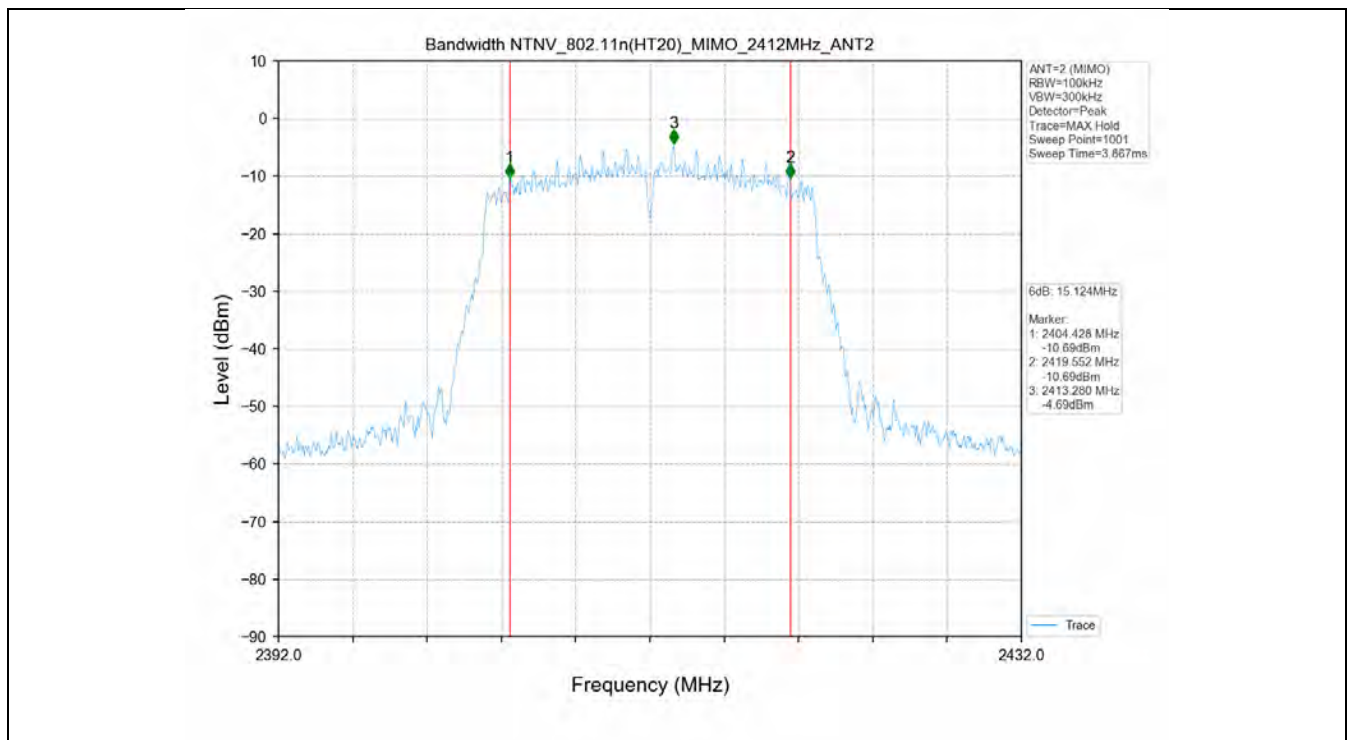
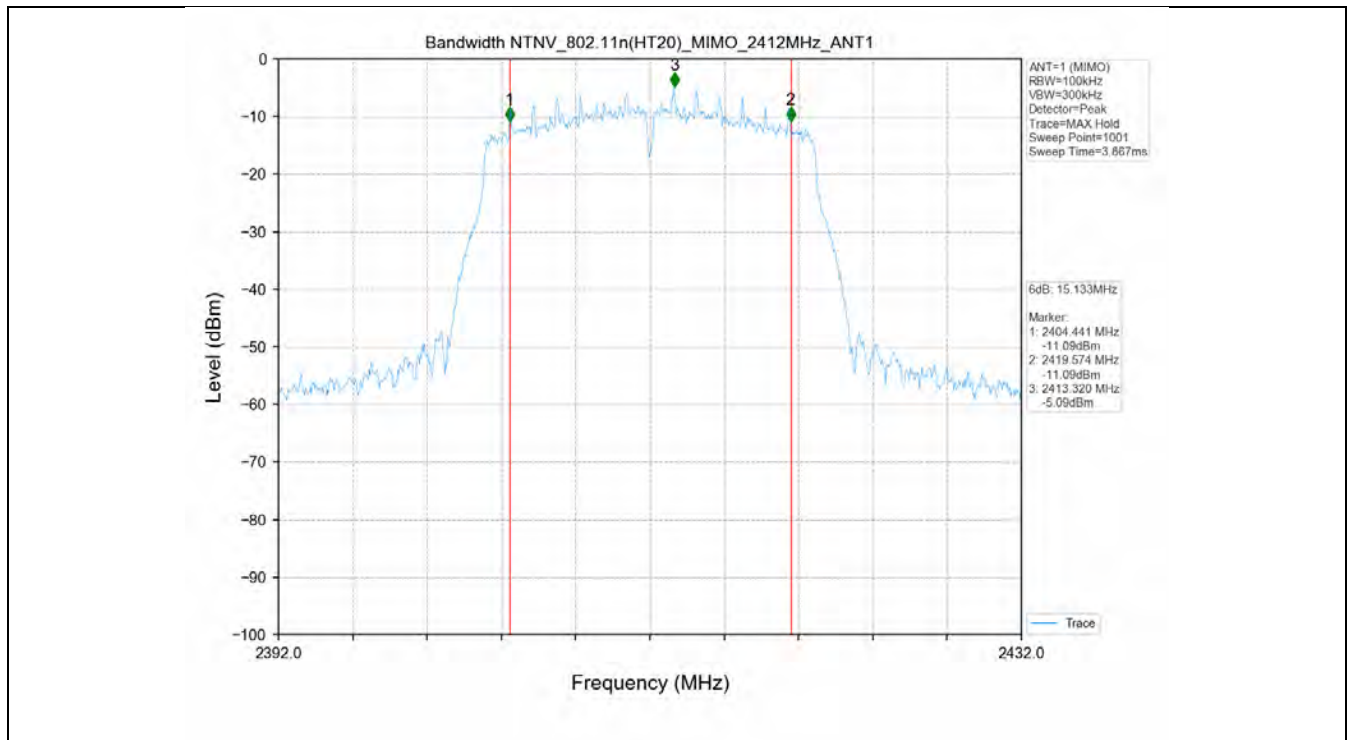


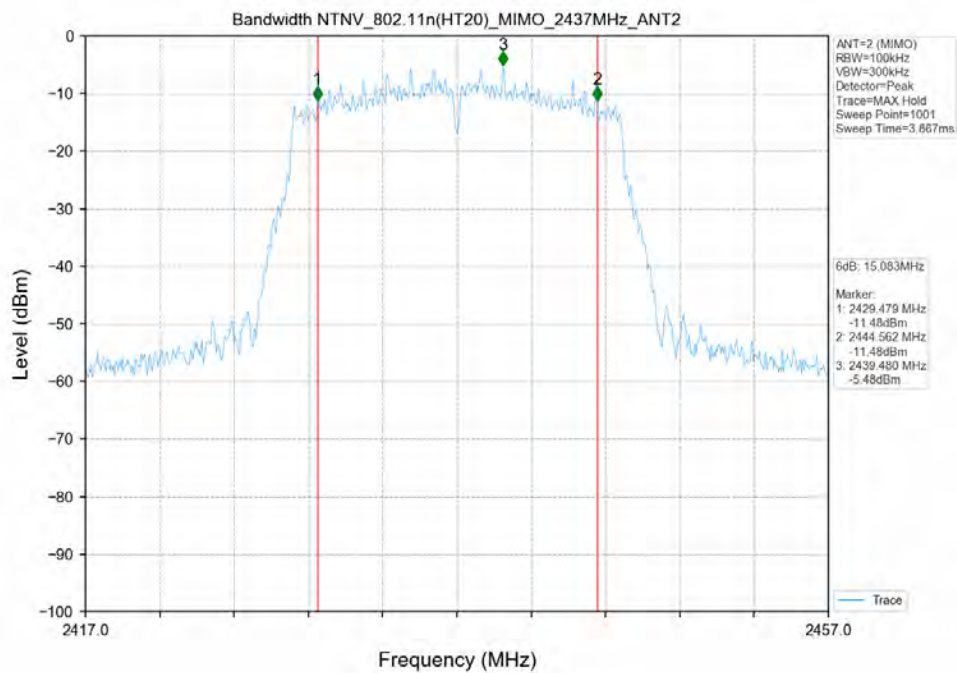
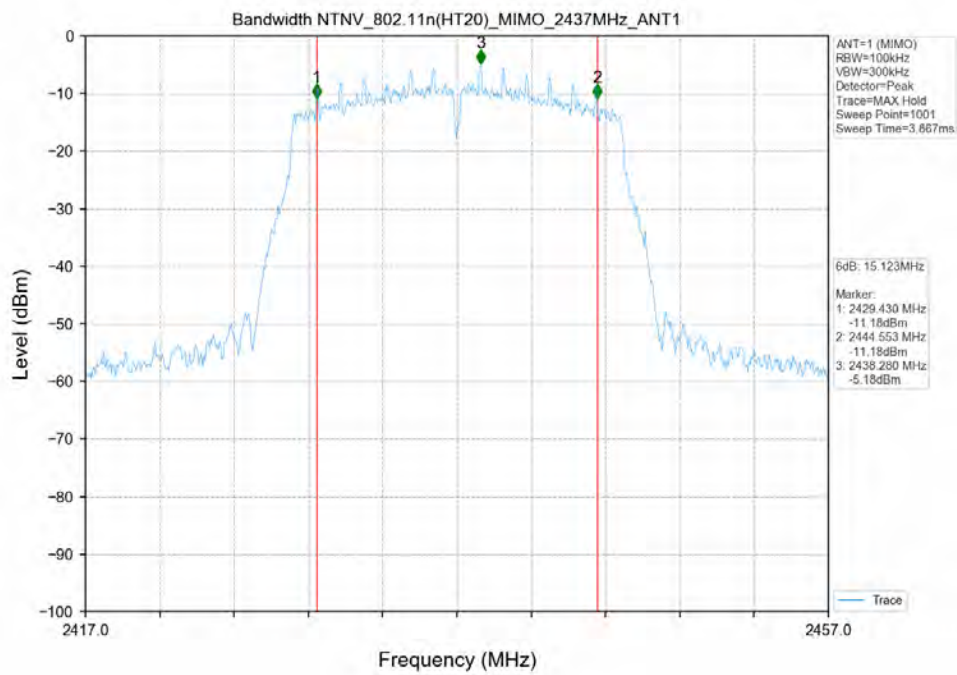


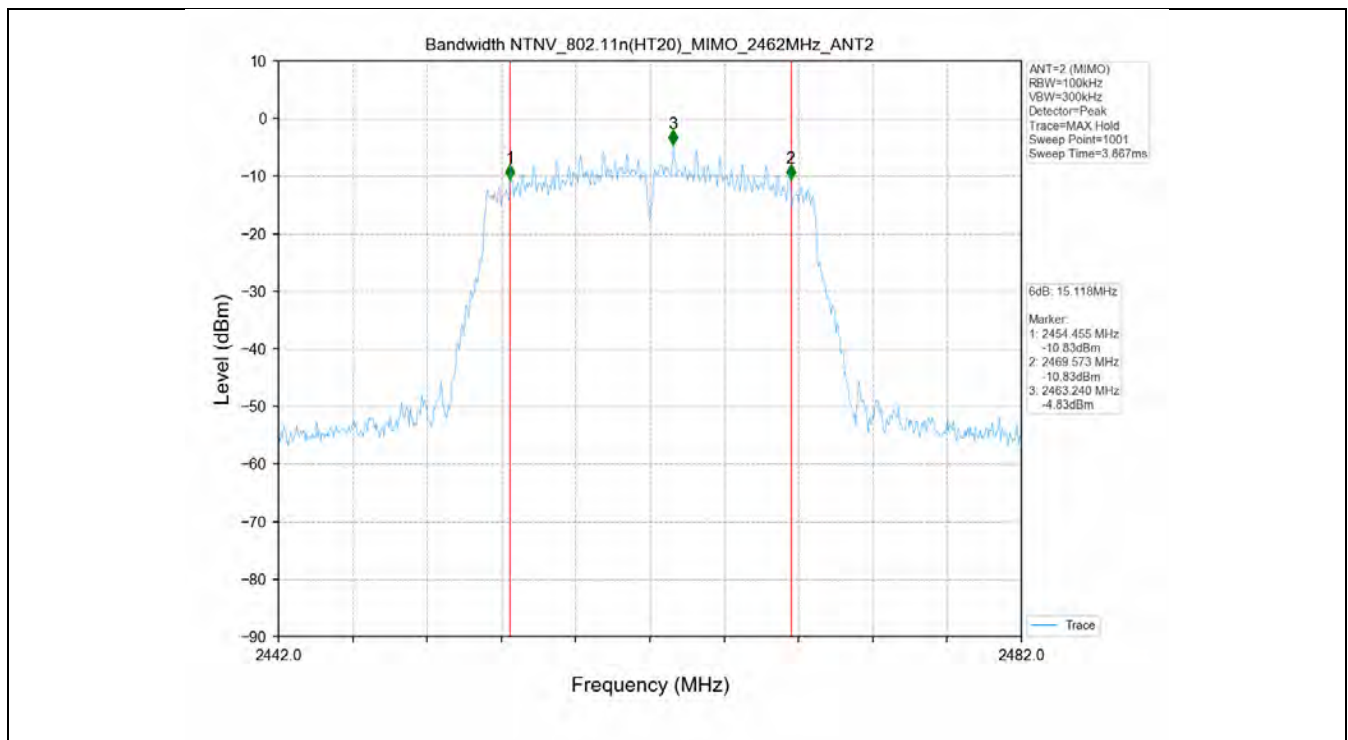
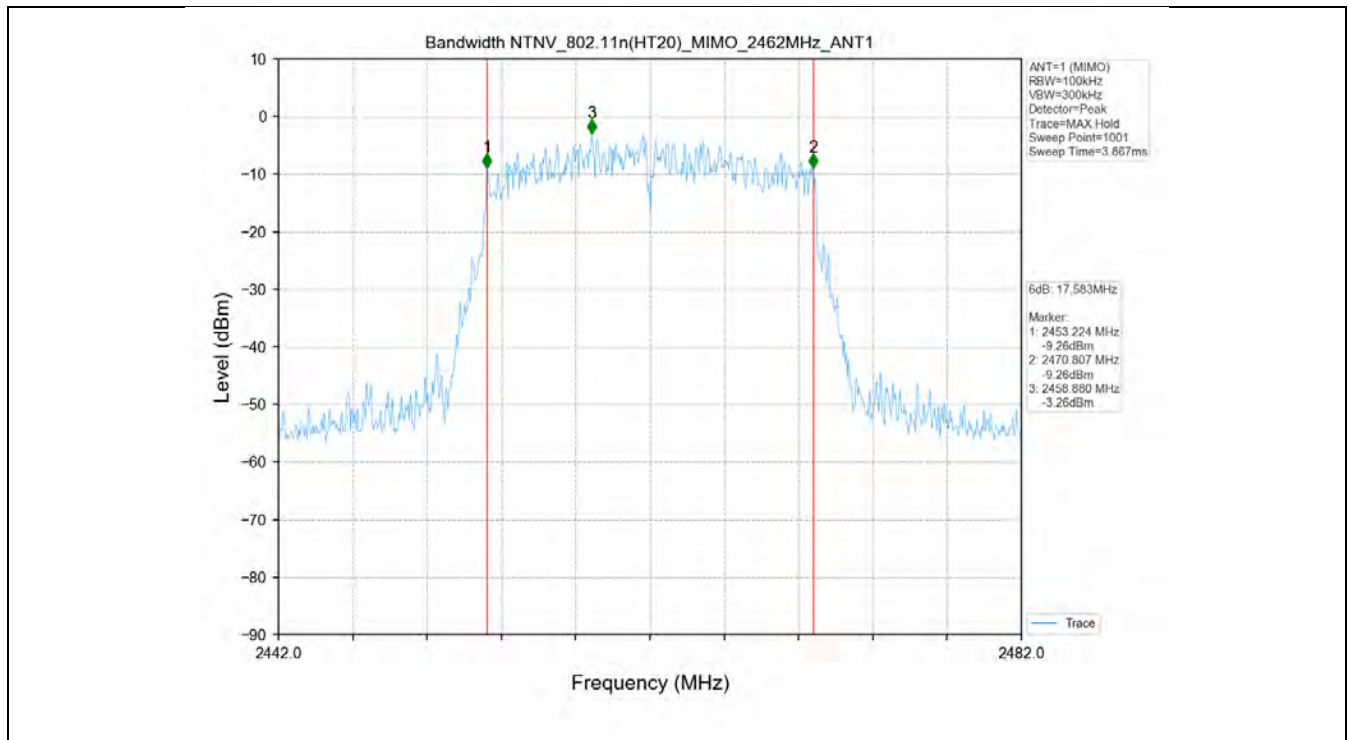






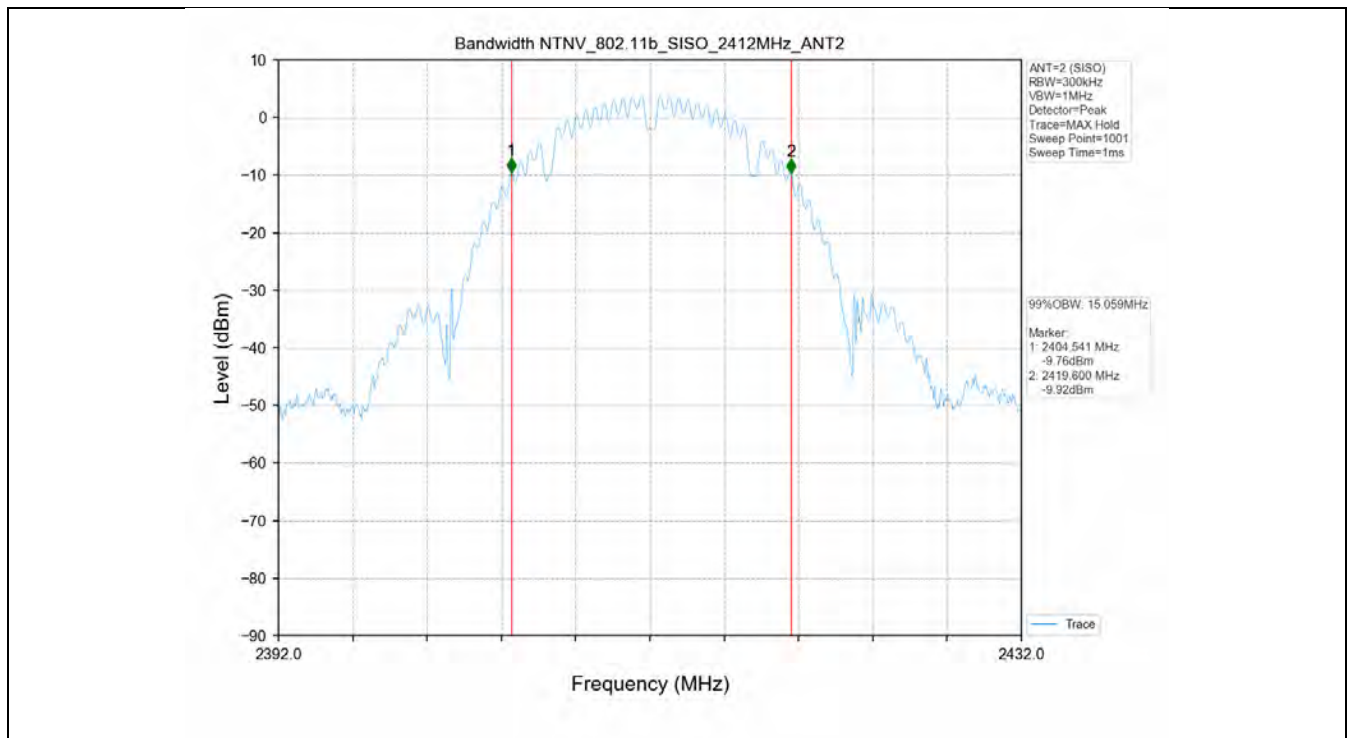
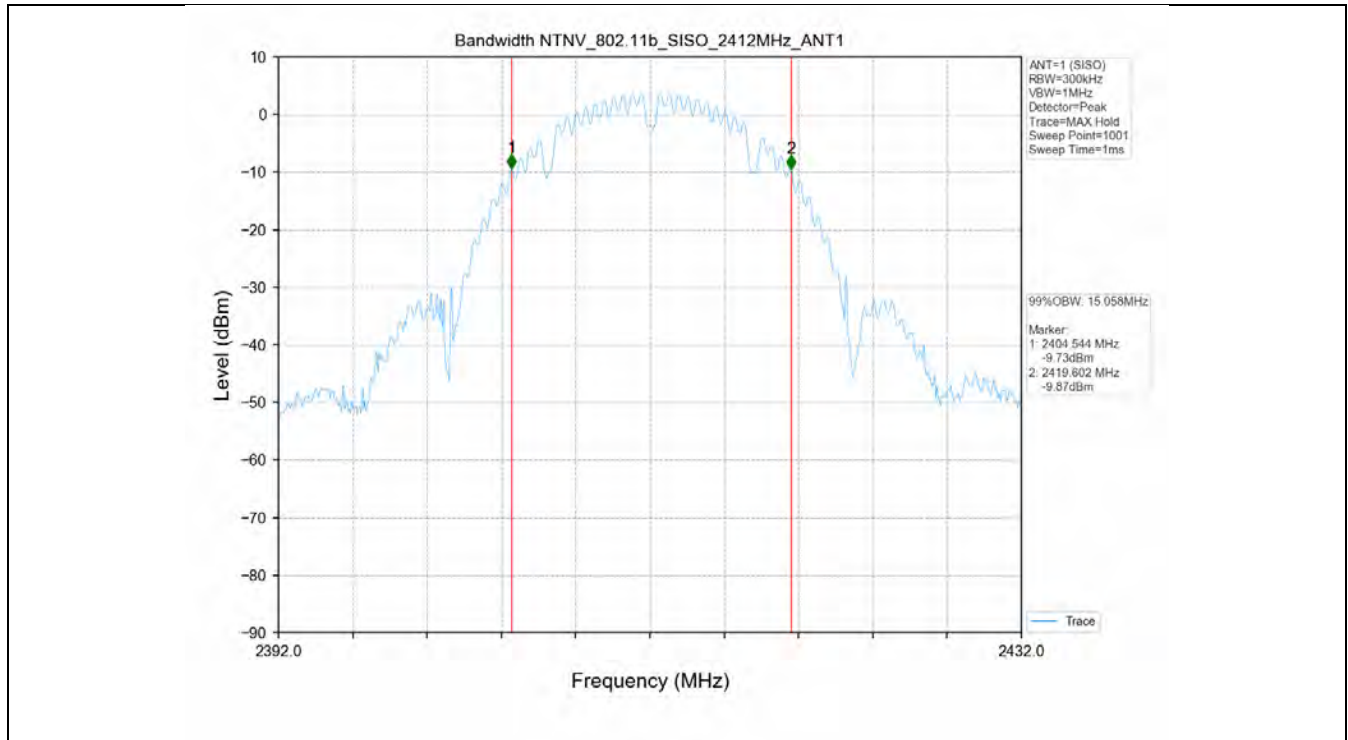


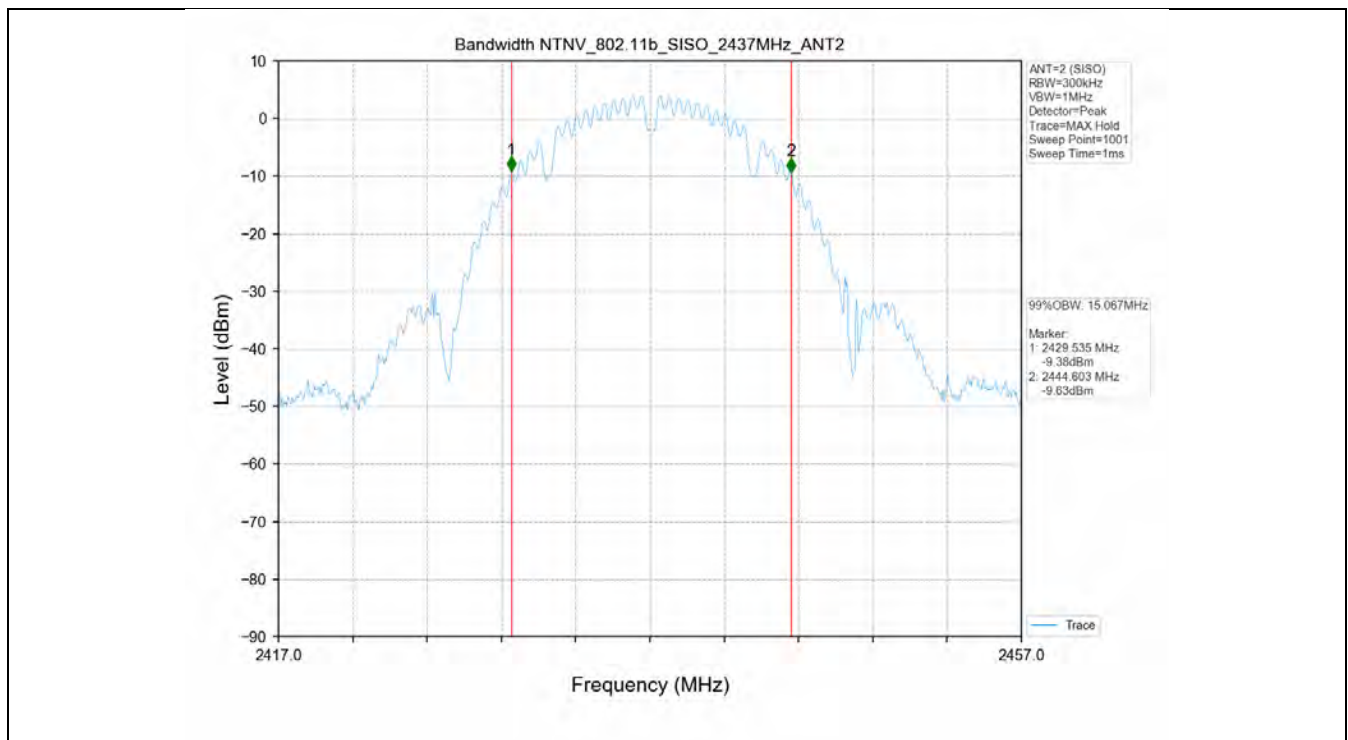
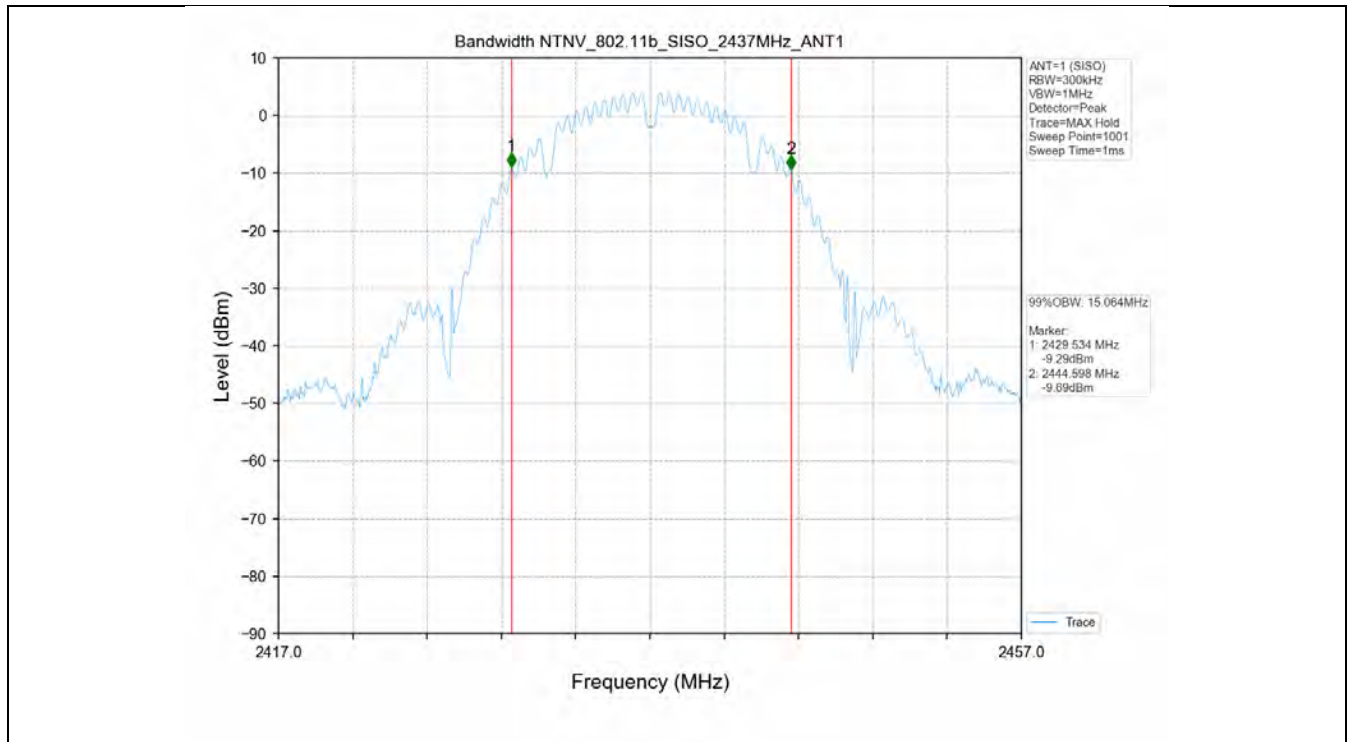


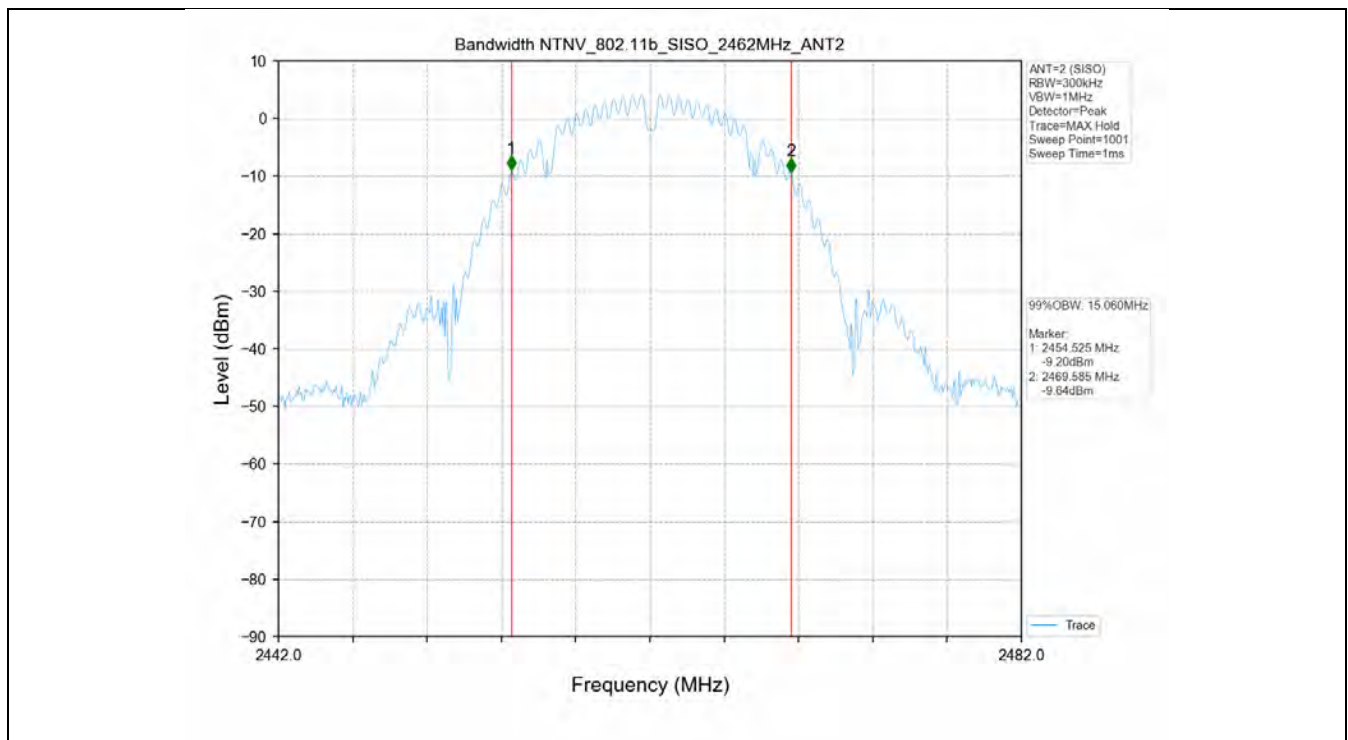
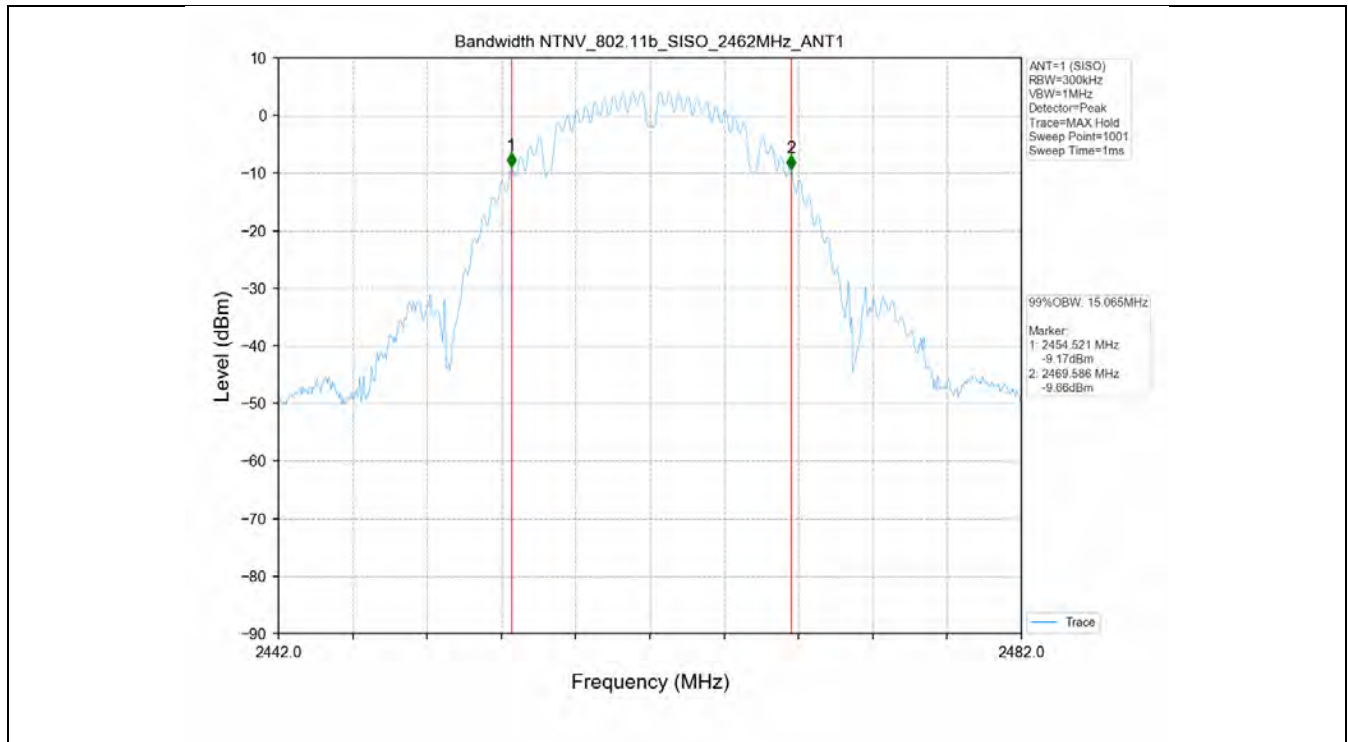


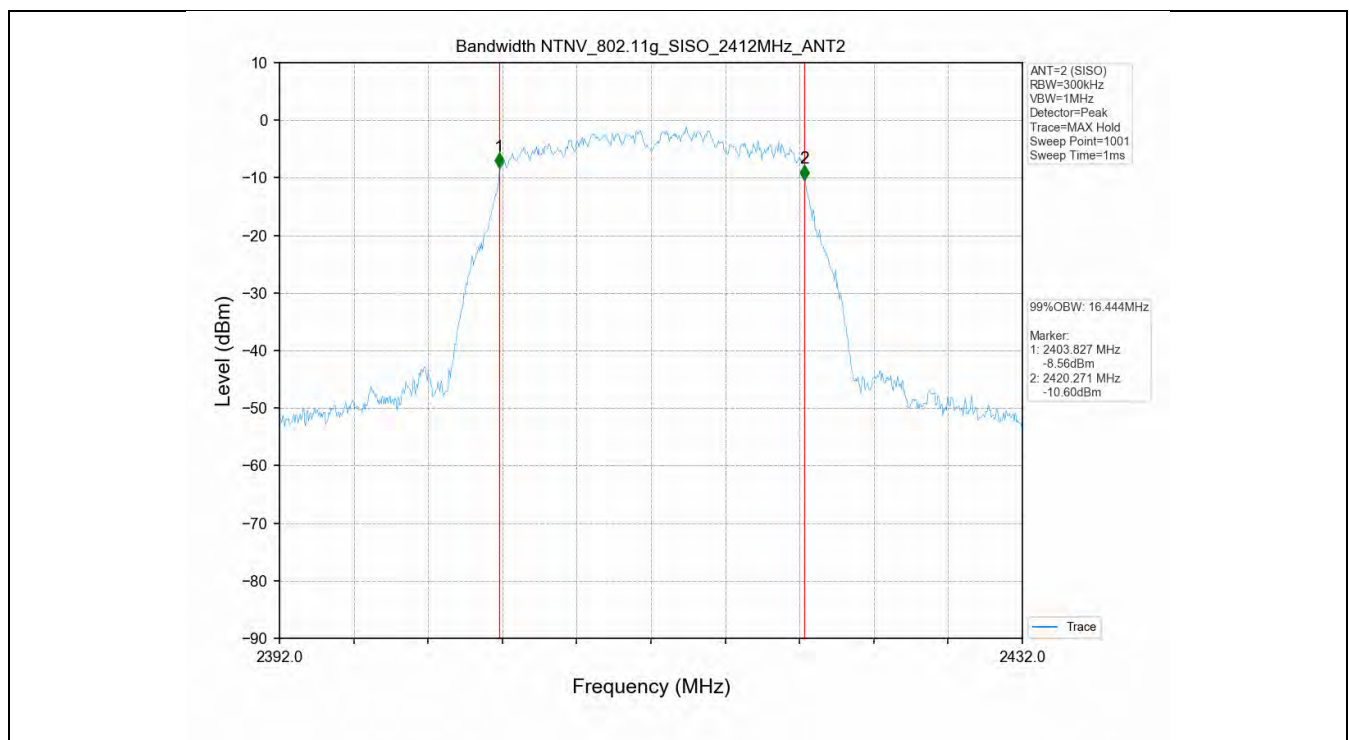
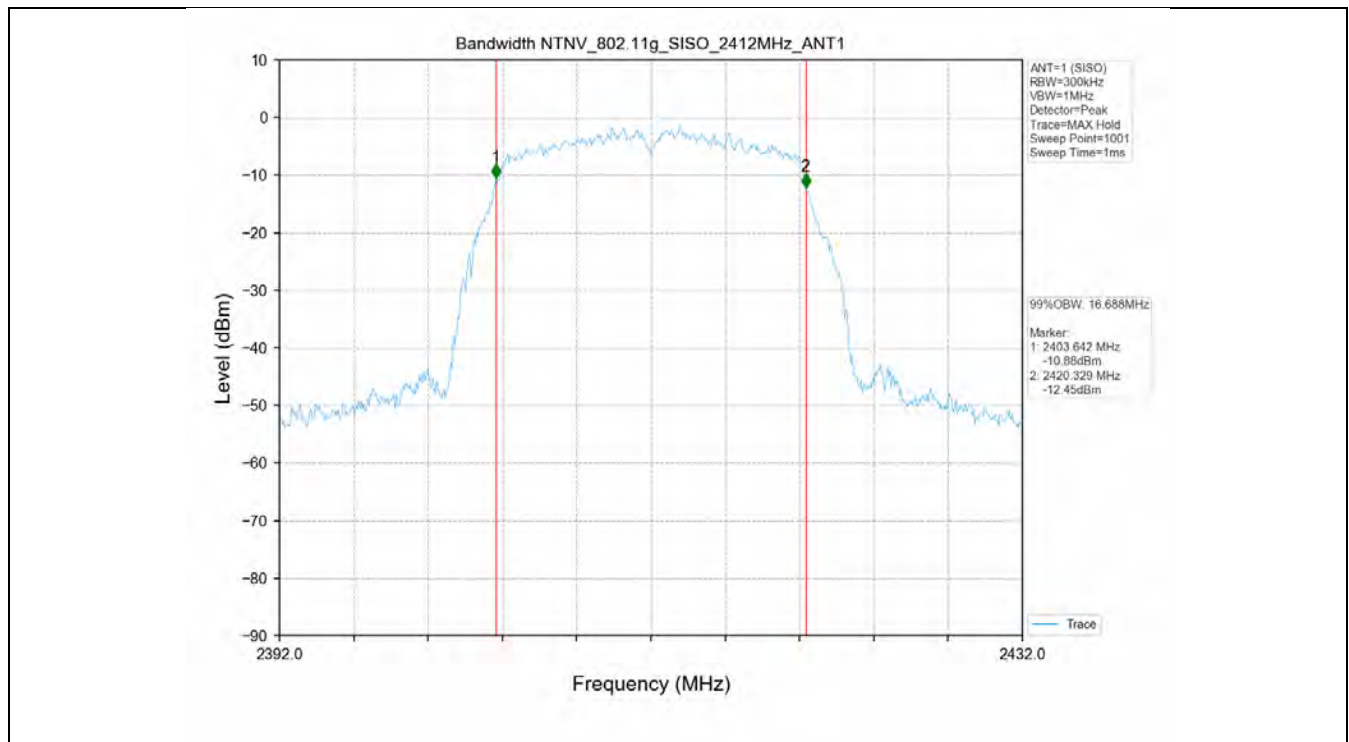


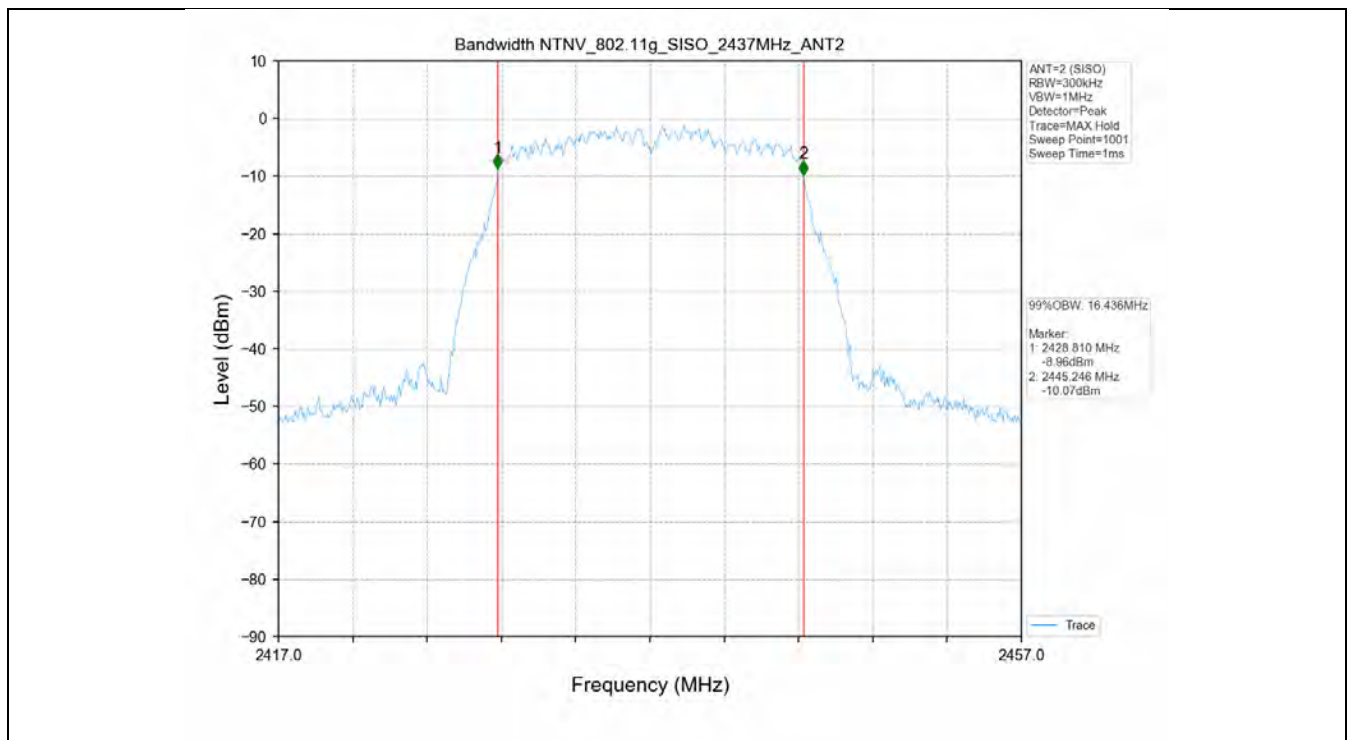
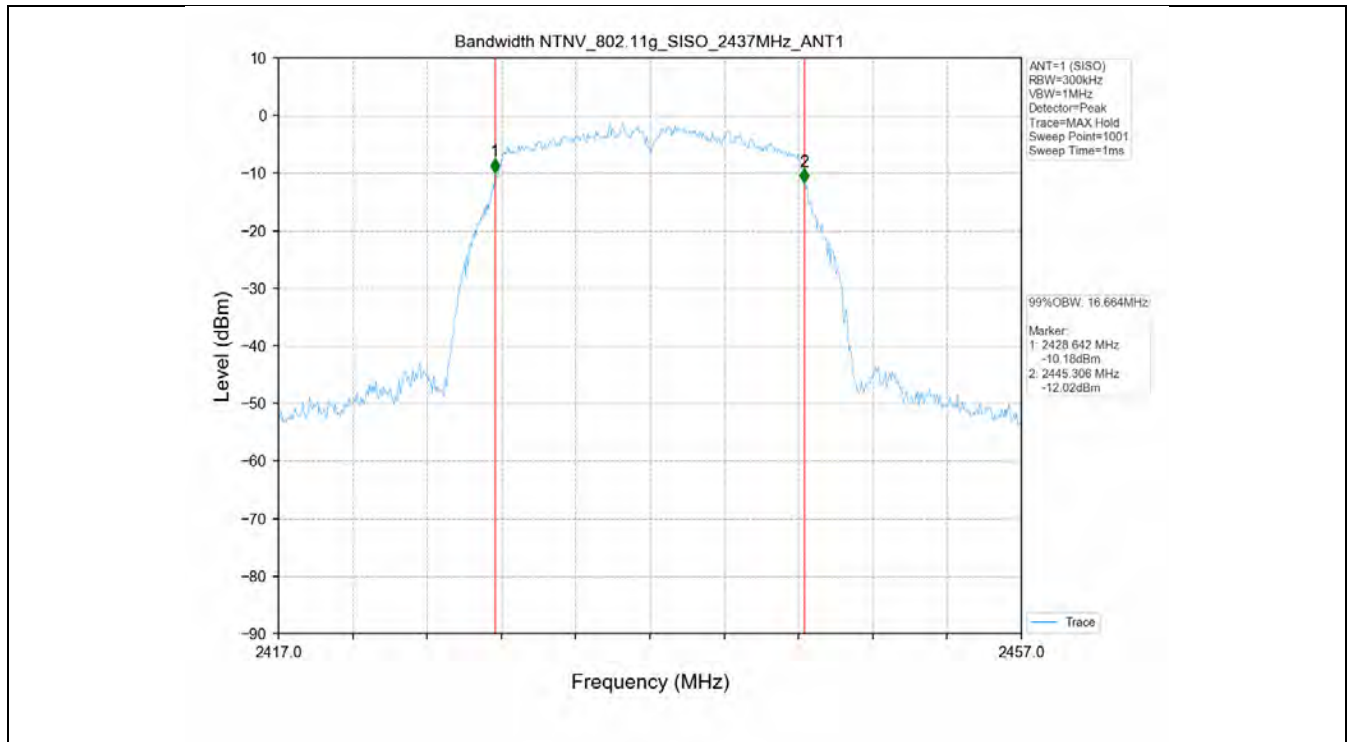
2.3 Test Graph - 99% Occupied Bandwidth

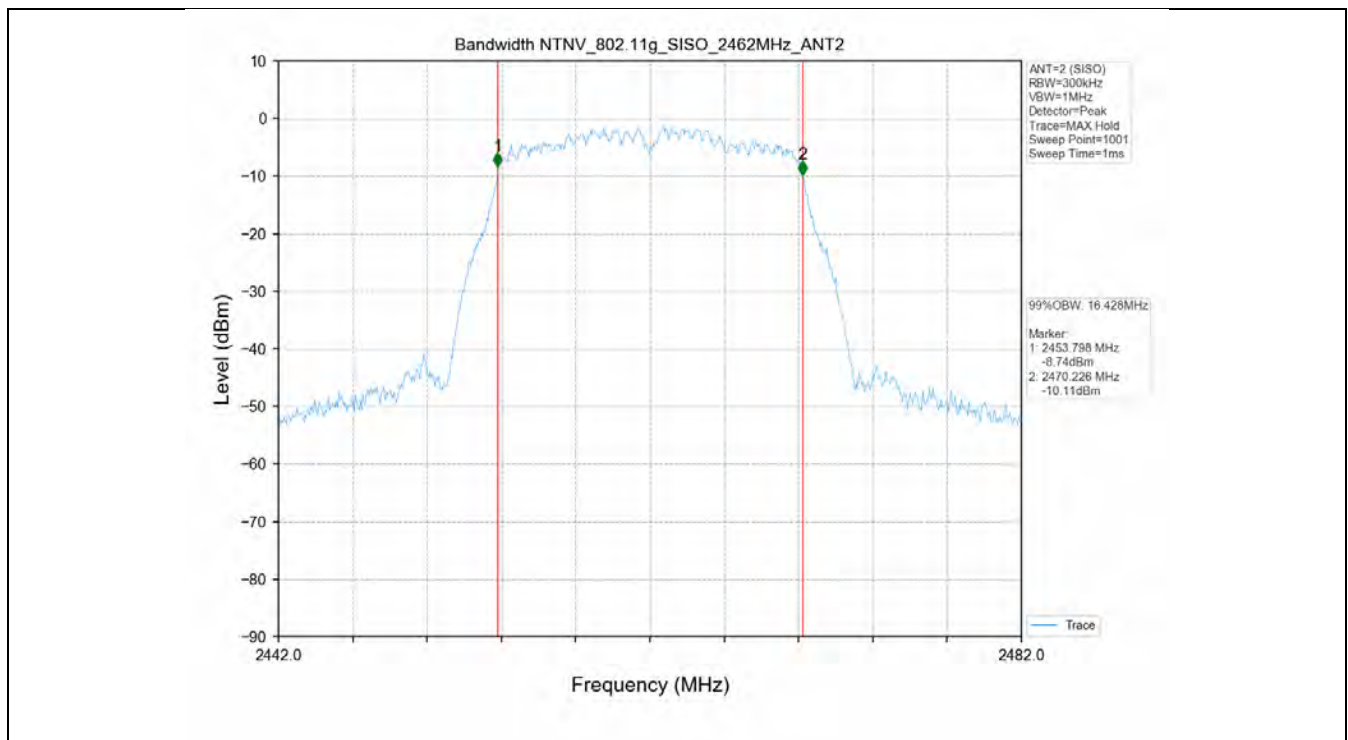
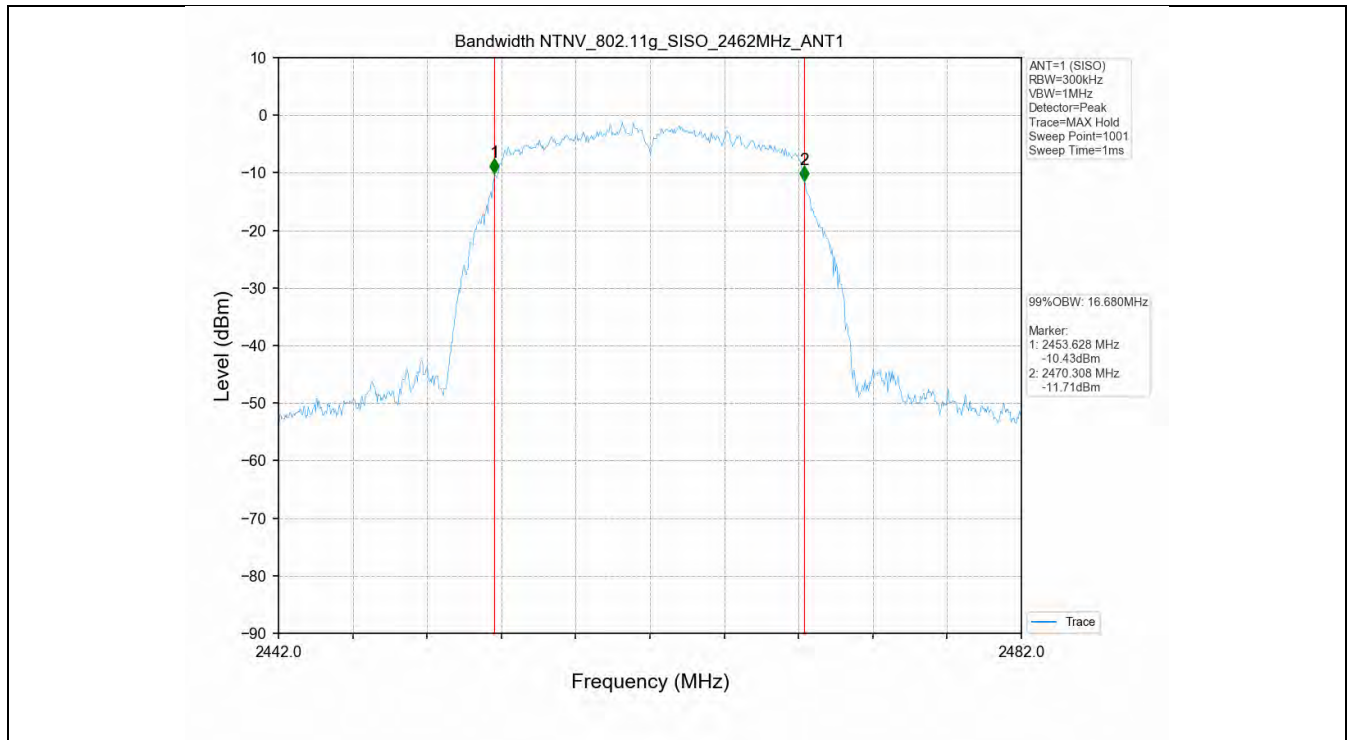


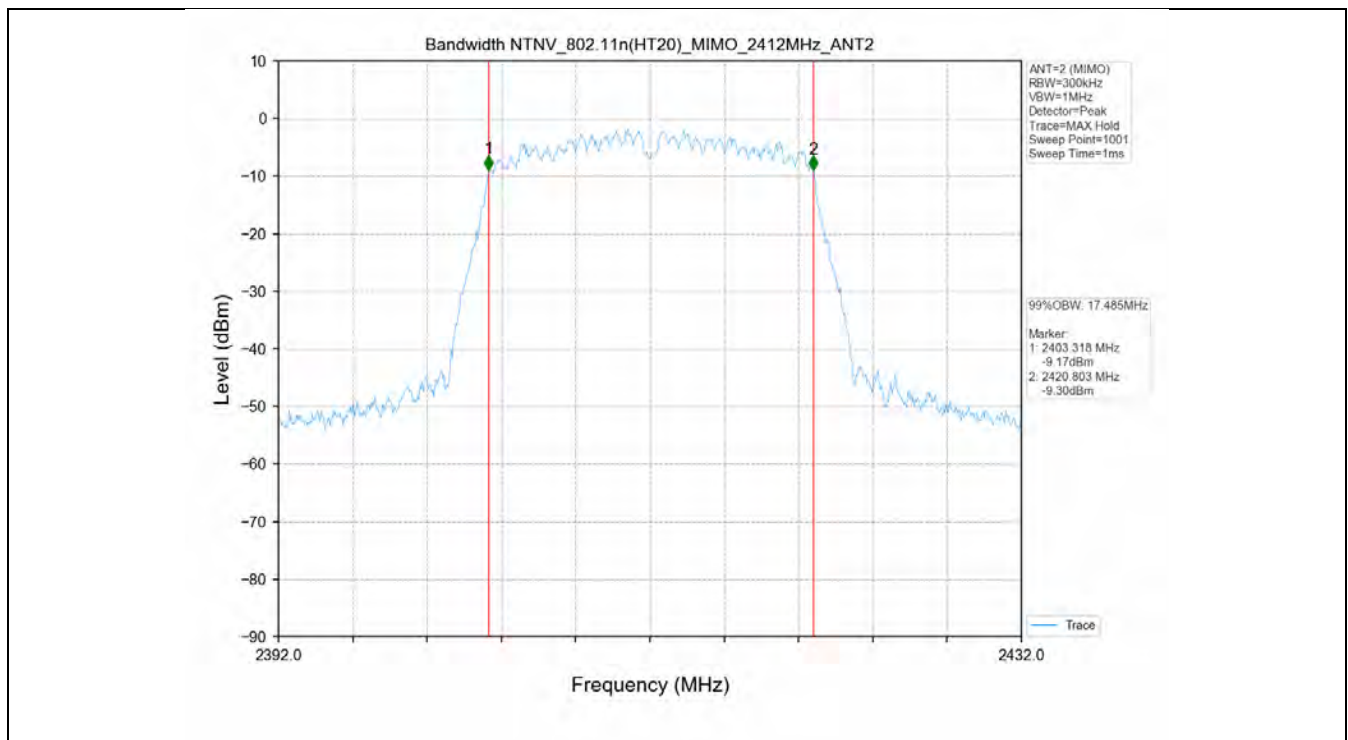
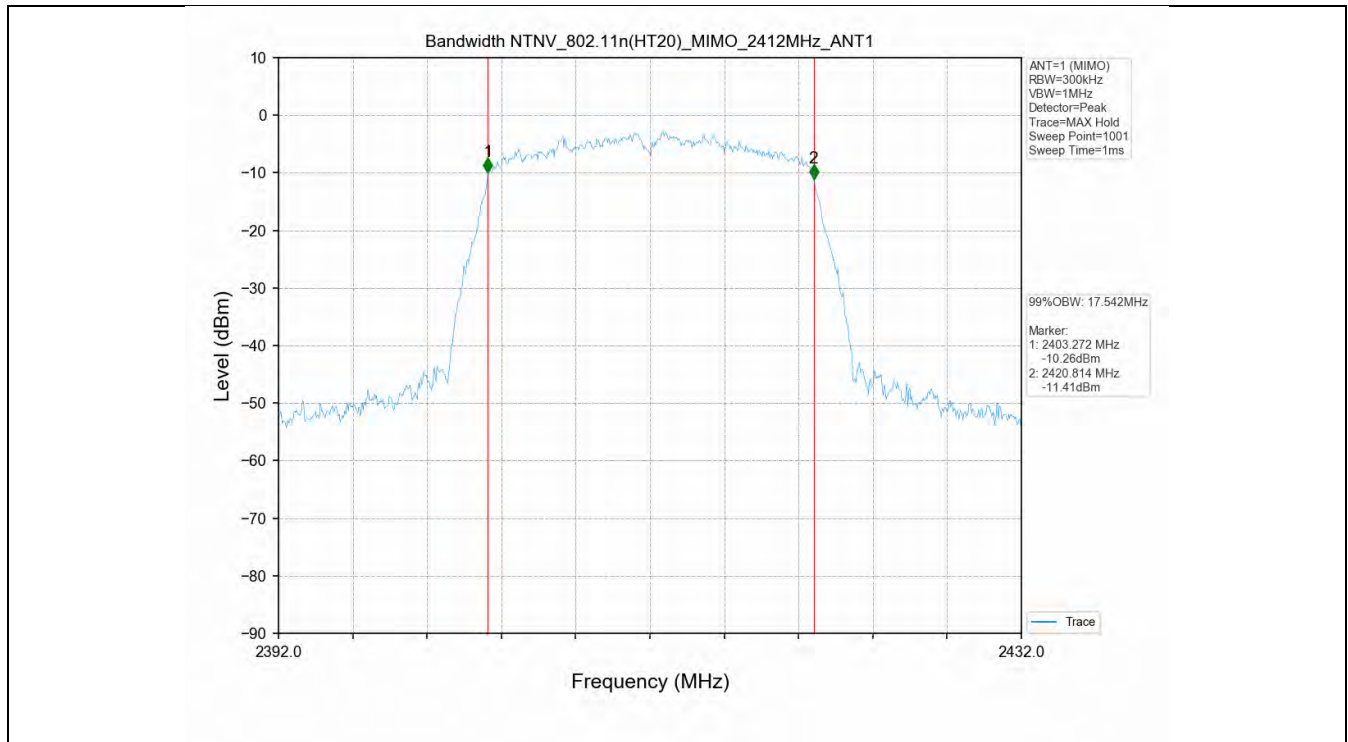


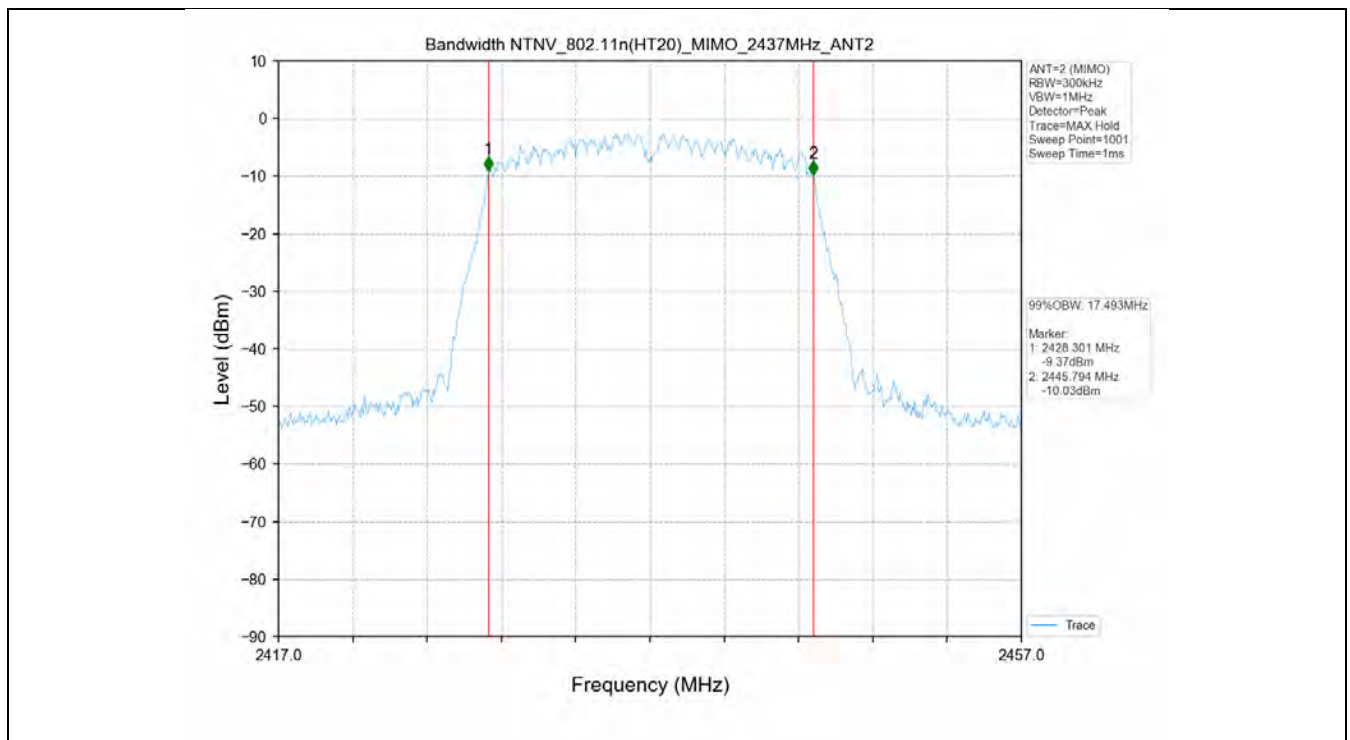
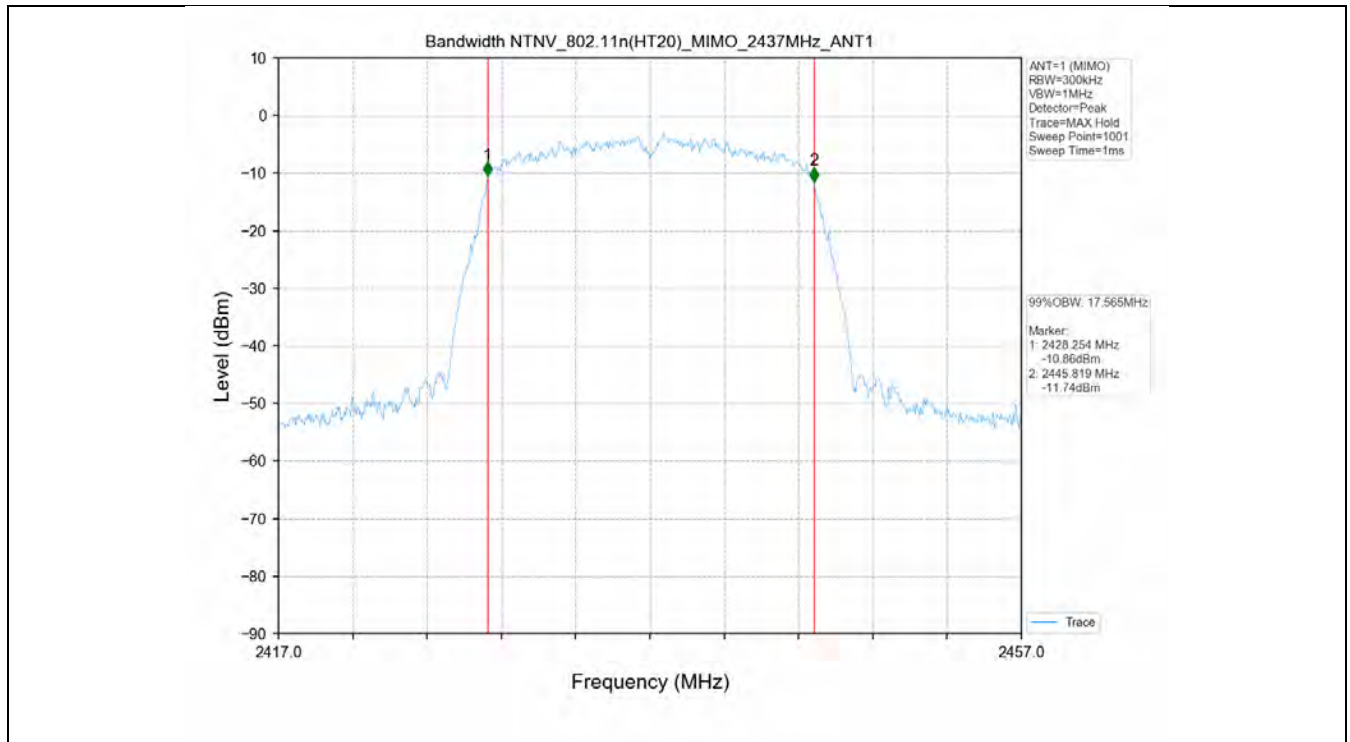


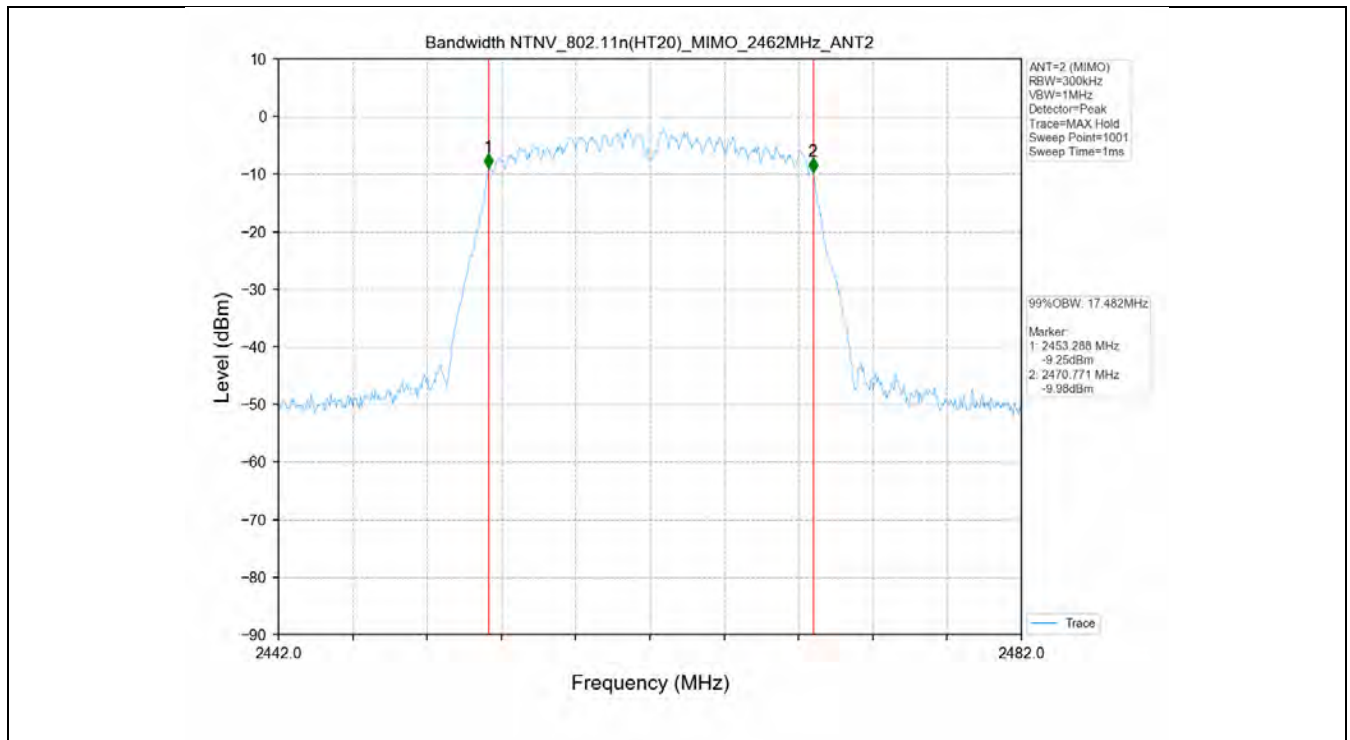
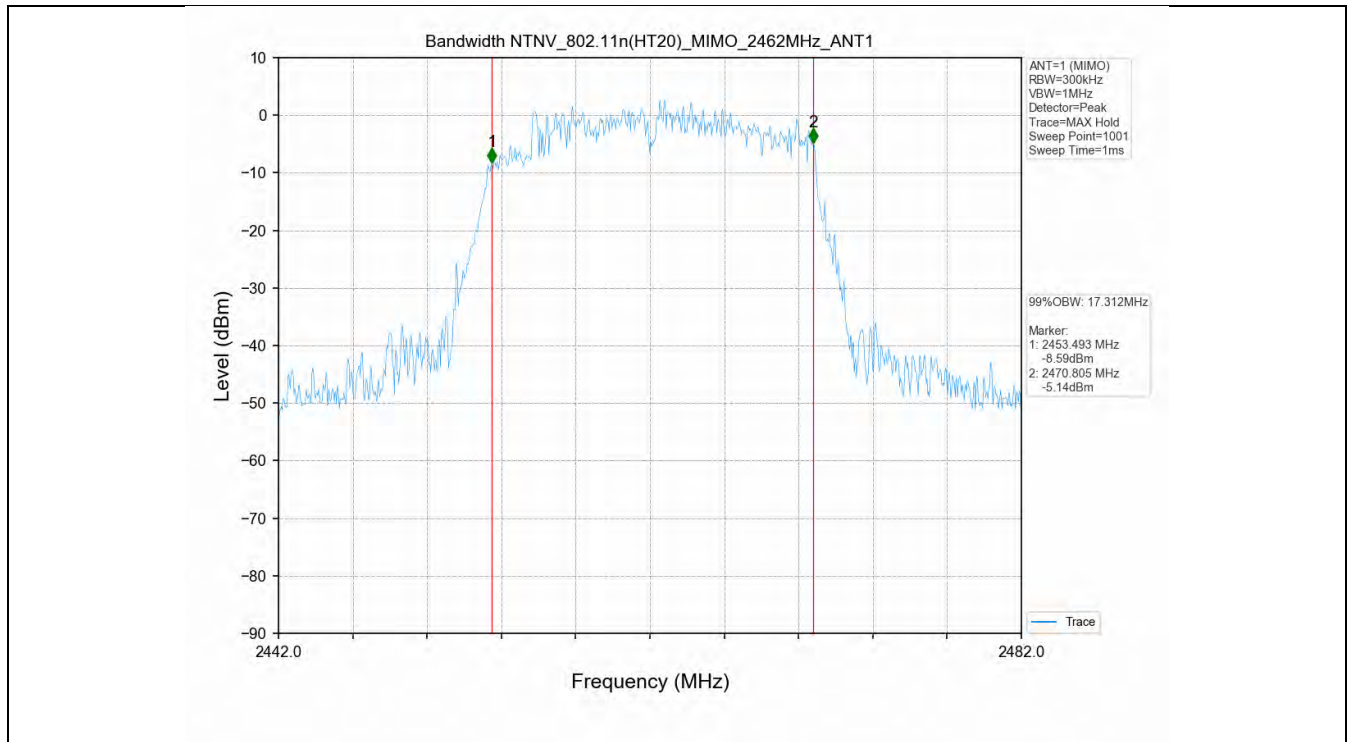












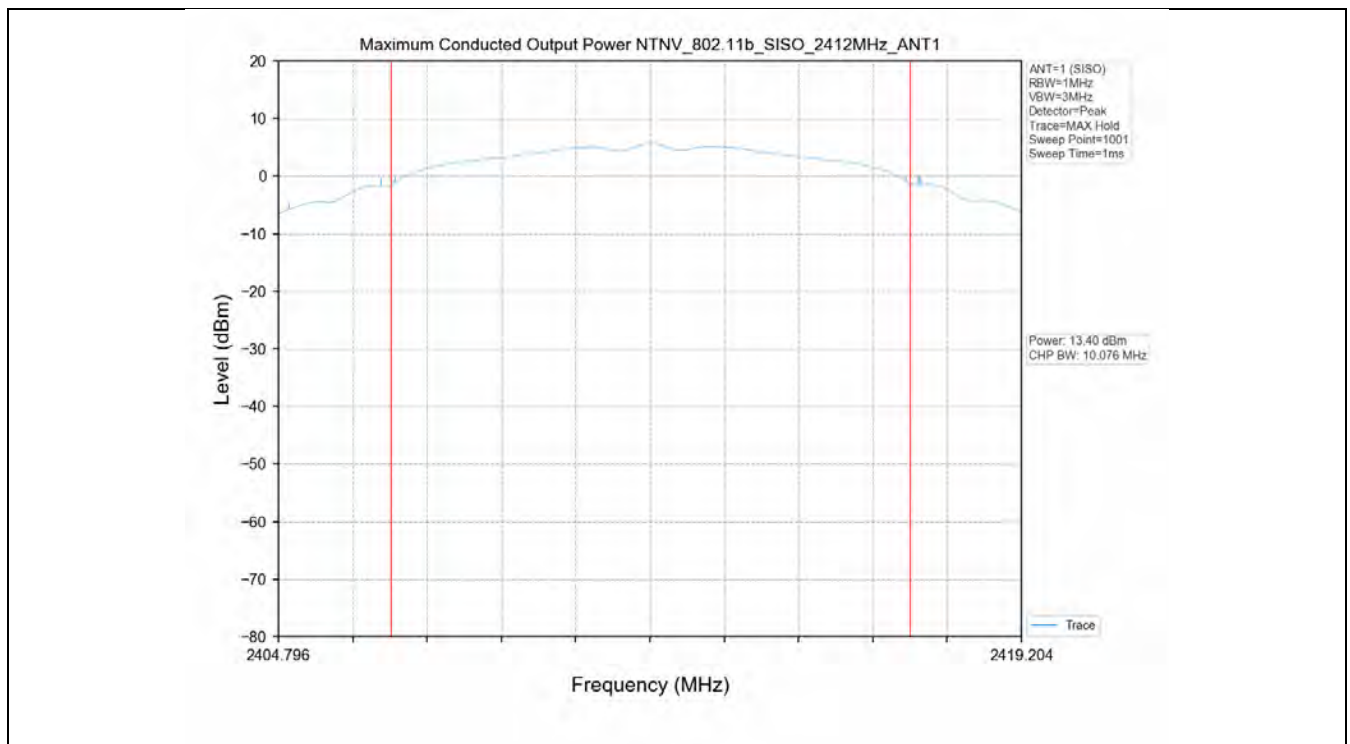


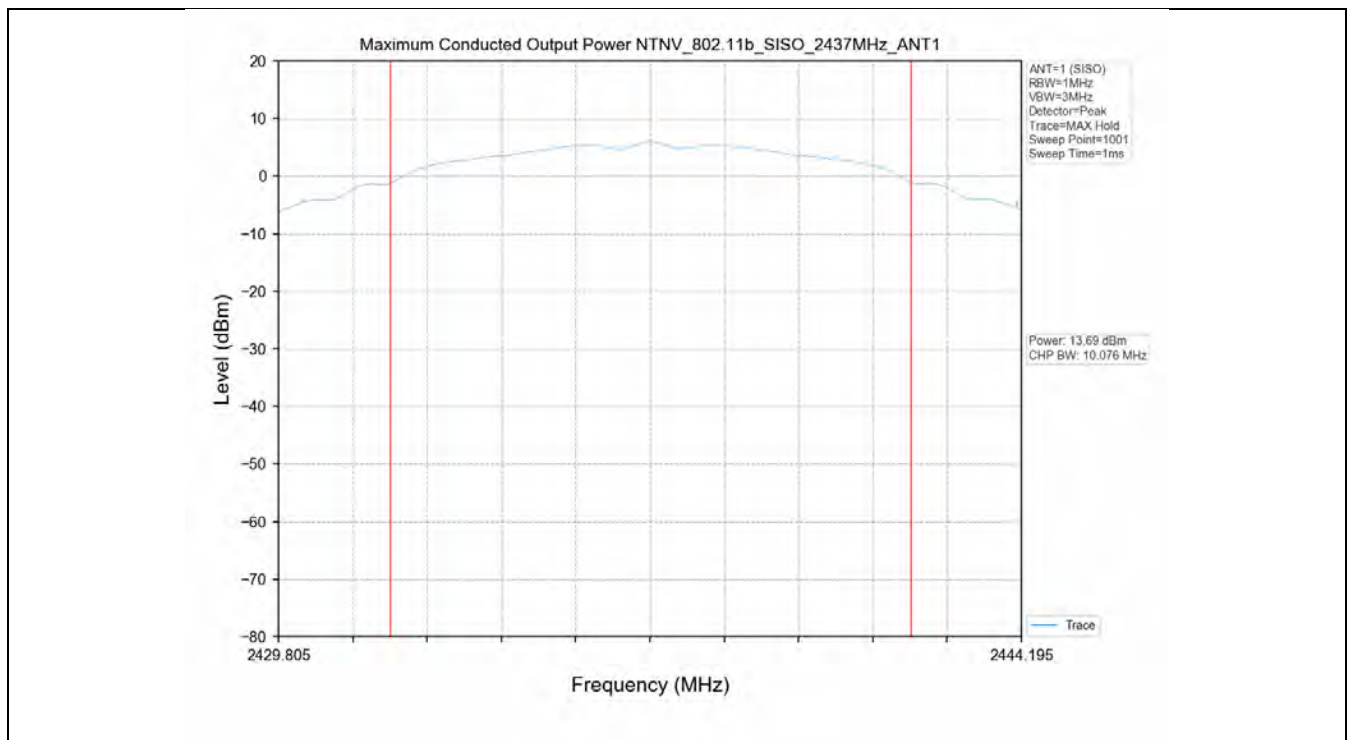
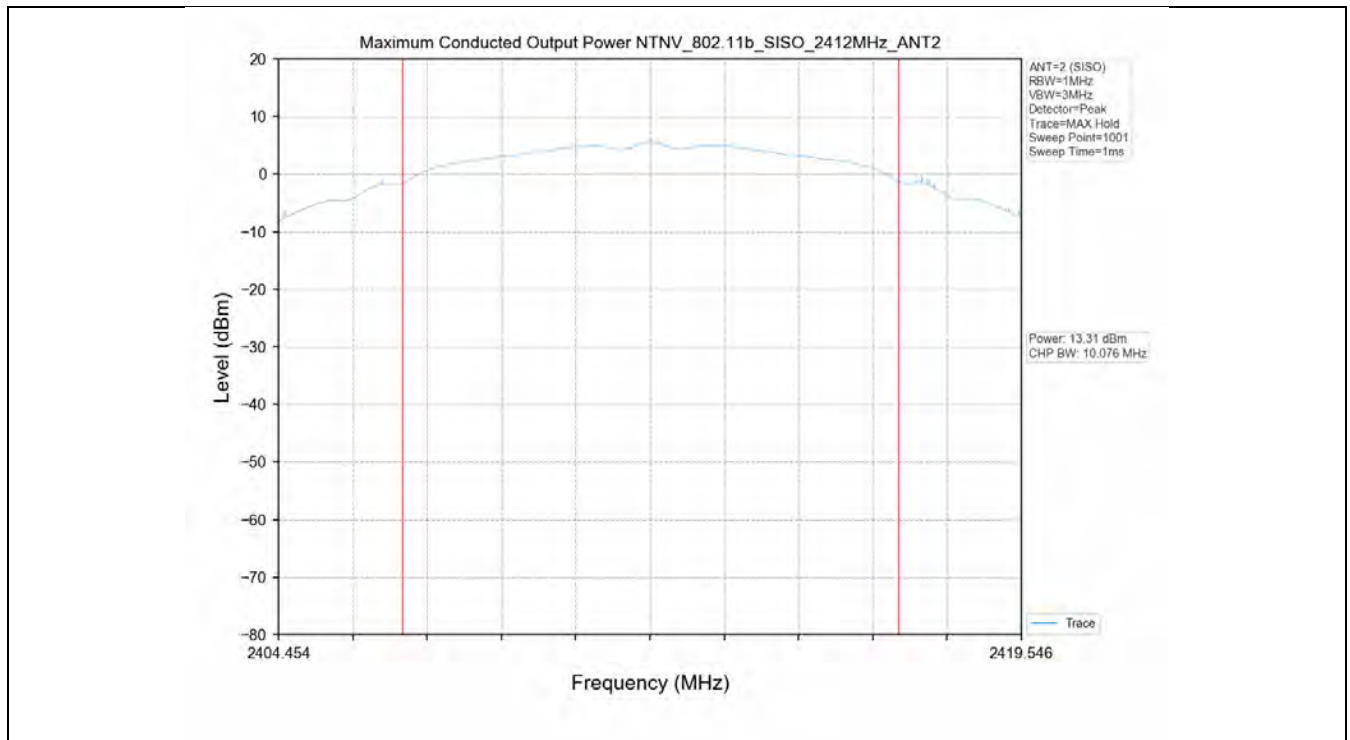
3. Maximum Conducted Output Power

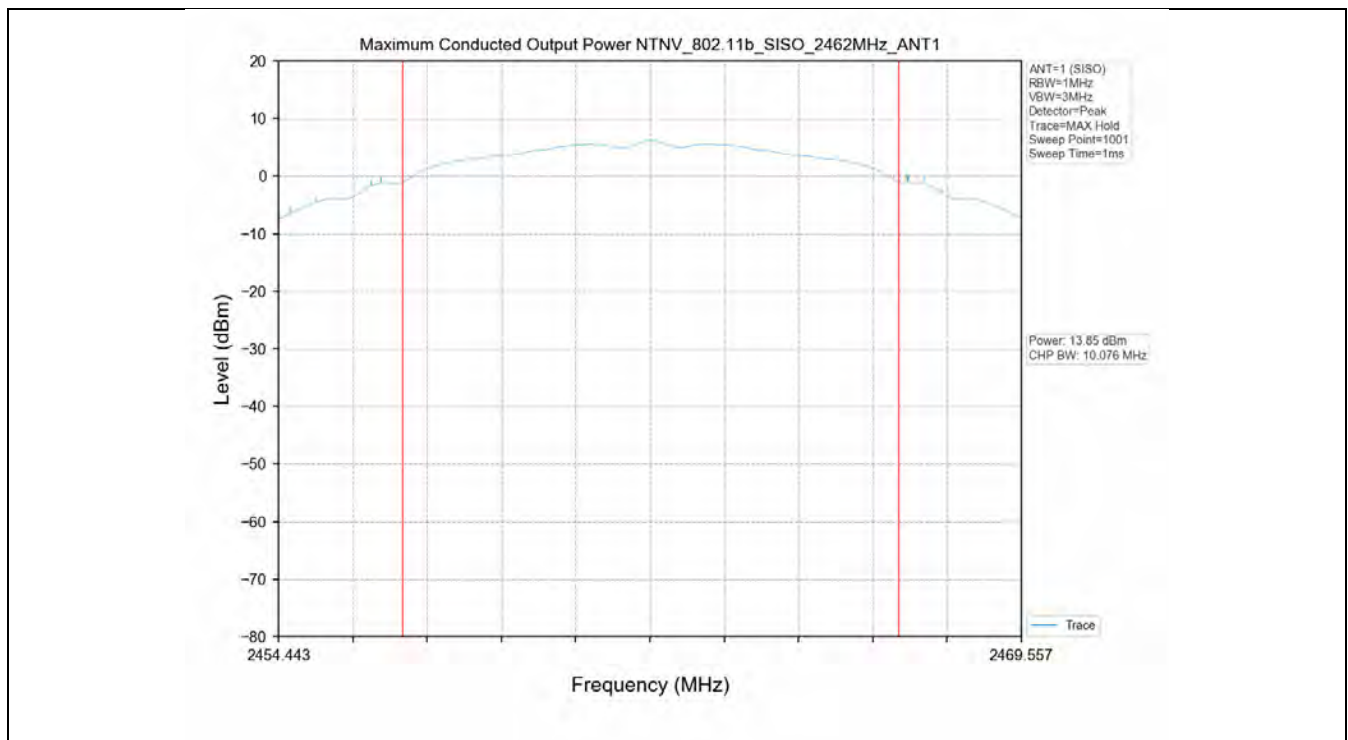
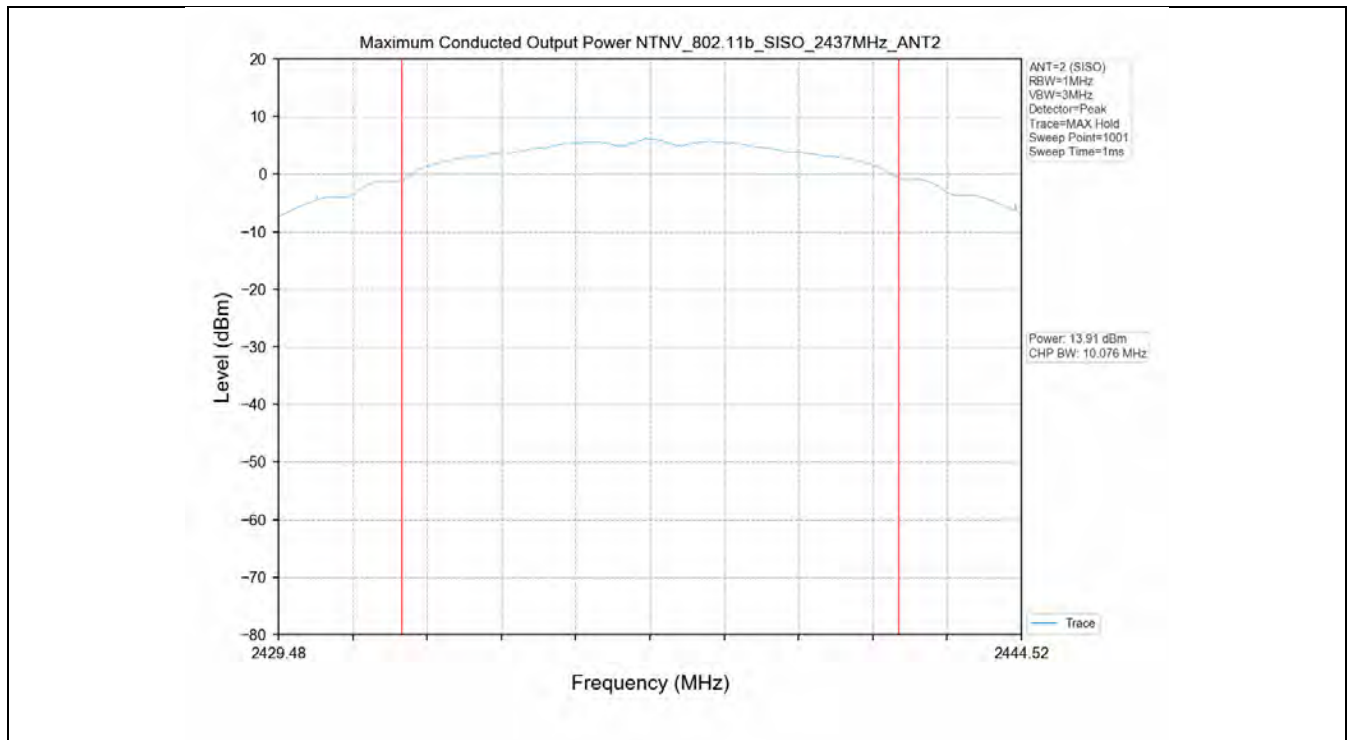
3.1 Test Result

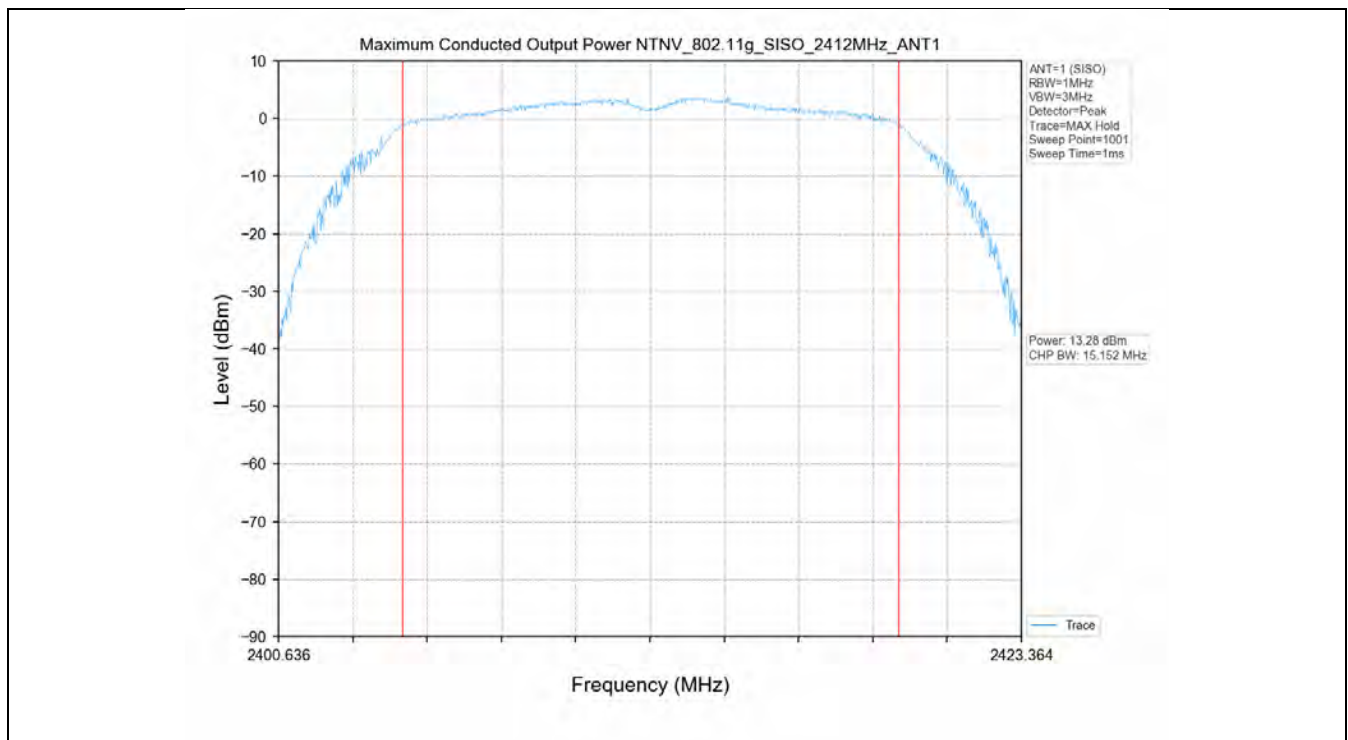
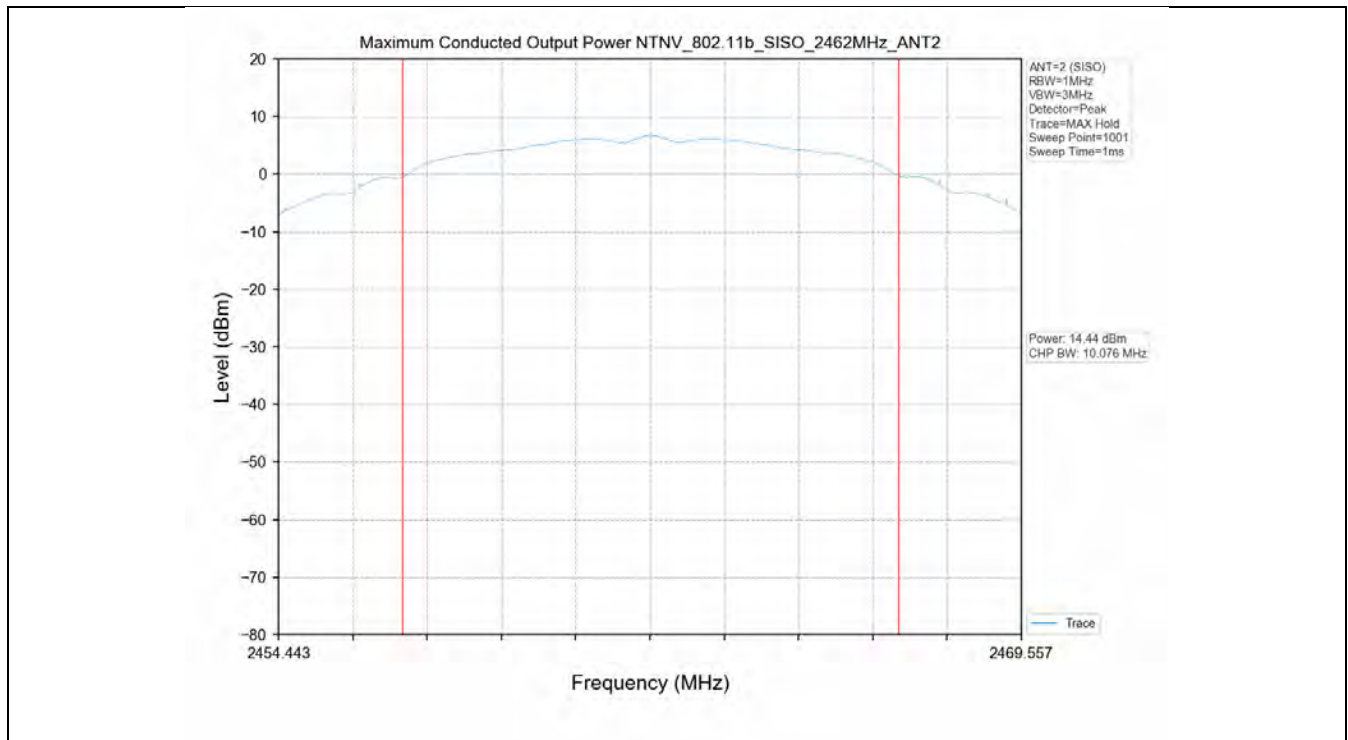
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	13.40	13.31	/	30	PASS
	2437	SISO	13.69	13.91	/	30	PASS
	2462	SISO	13.85	14.44	/	30	PASS
802.11g	2412	SISO	13.28	13.59	/	30	PASS
	2437	SISO	13.53	13.75	/	30	PASS
	2462	SISO	13.56	13.82	/	30	PASS
802.11n(HT20)	2412	MIMO	12.10	12.59	15.36	29.05	PASS
	2437	MIMO	12.14	12.64	15.41	29.05	PASS
	2462	MIMO	11.86	15.79	17.27	29.05	PASS

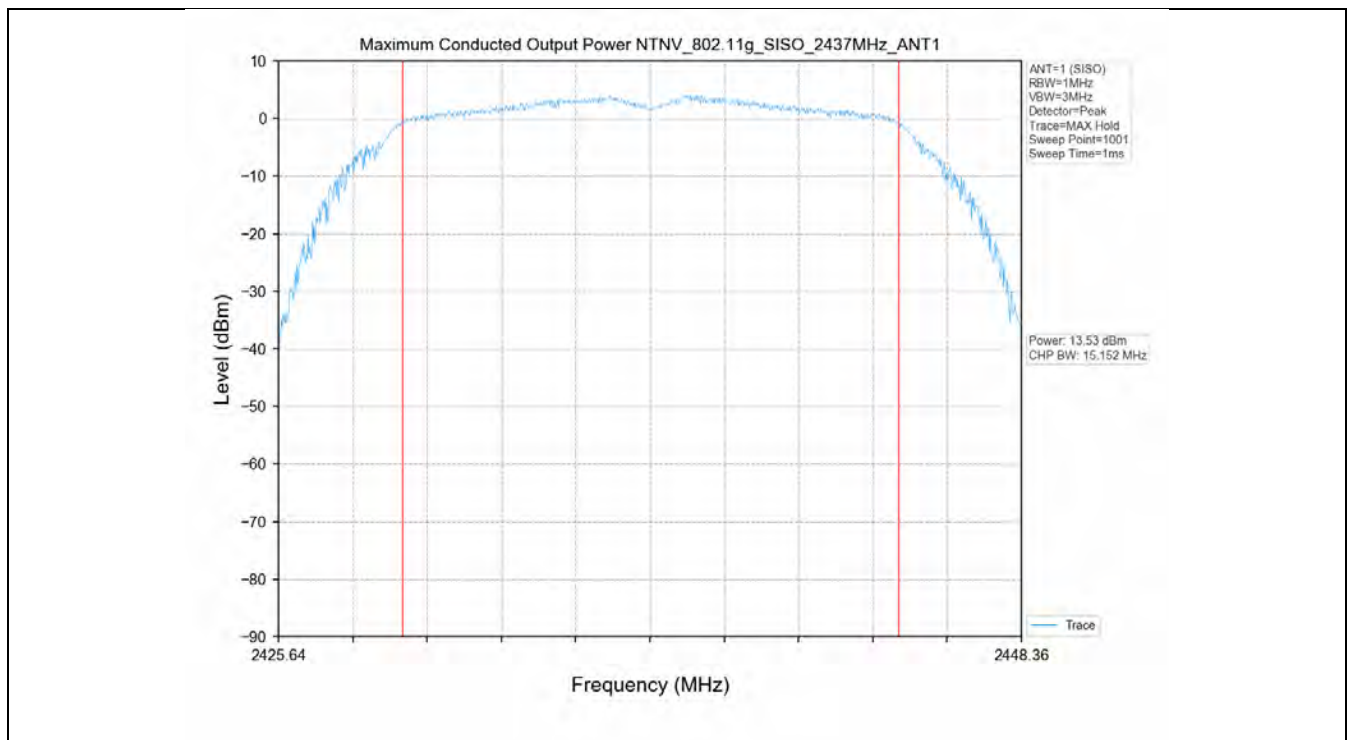
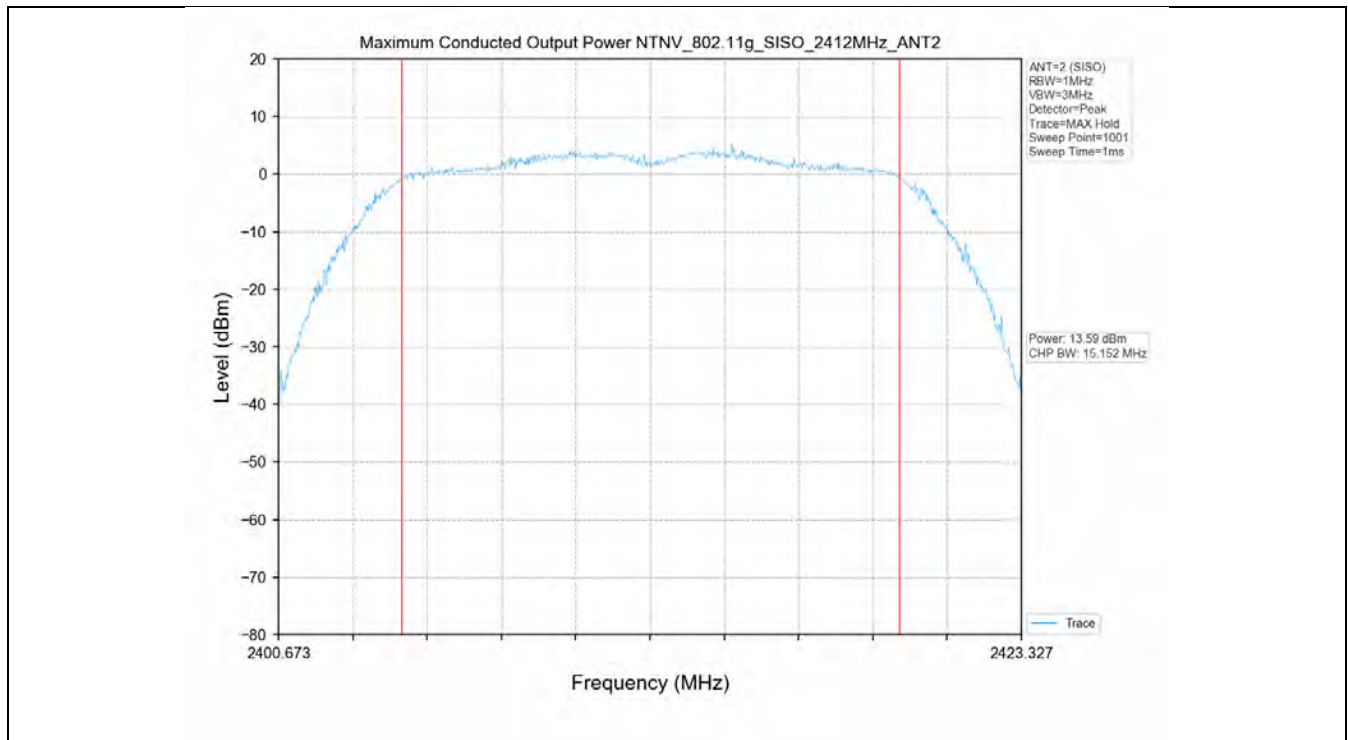
3.2 Test Graph

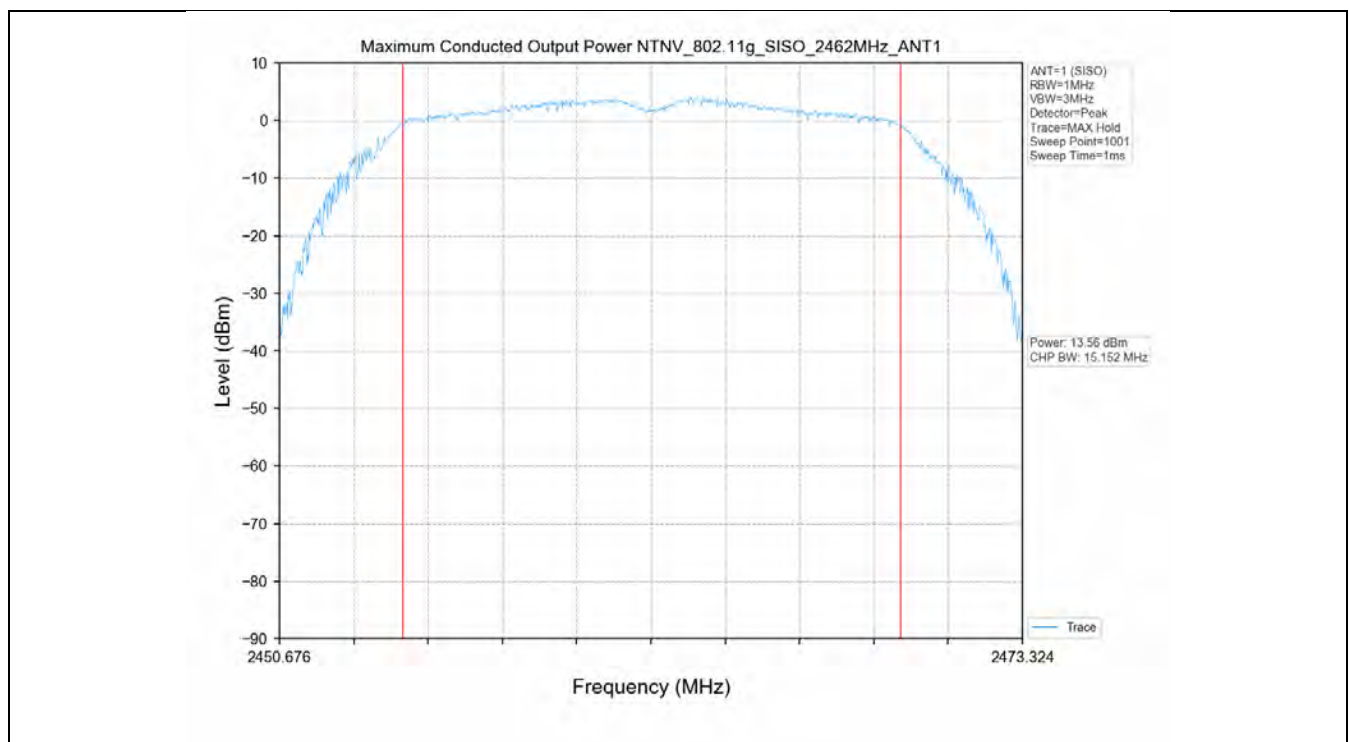
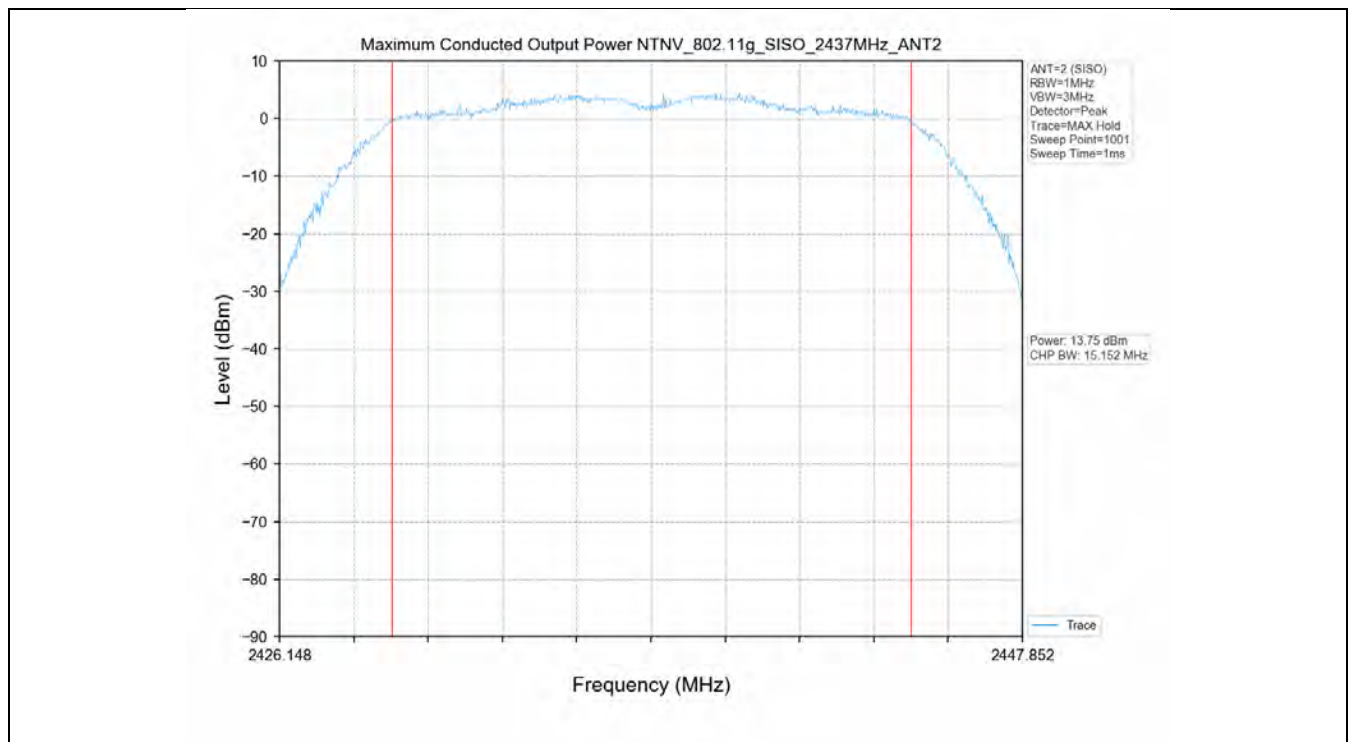


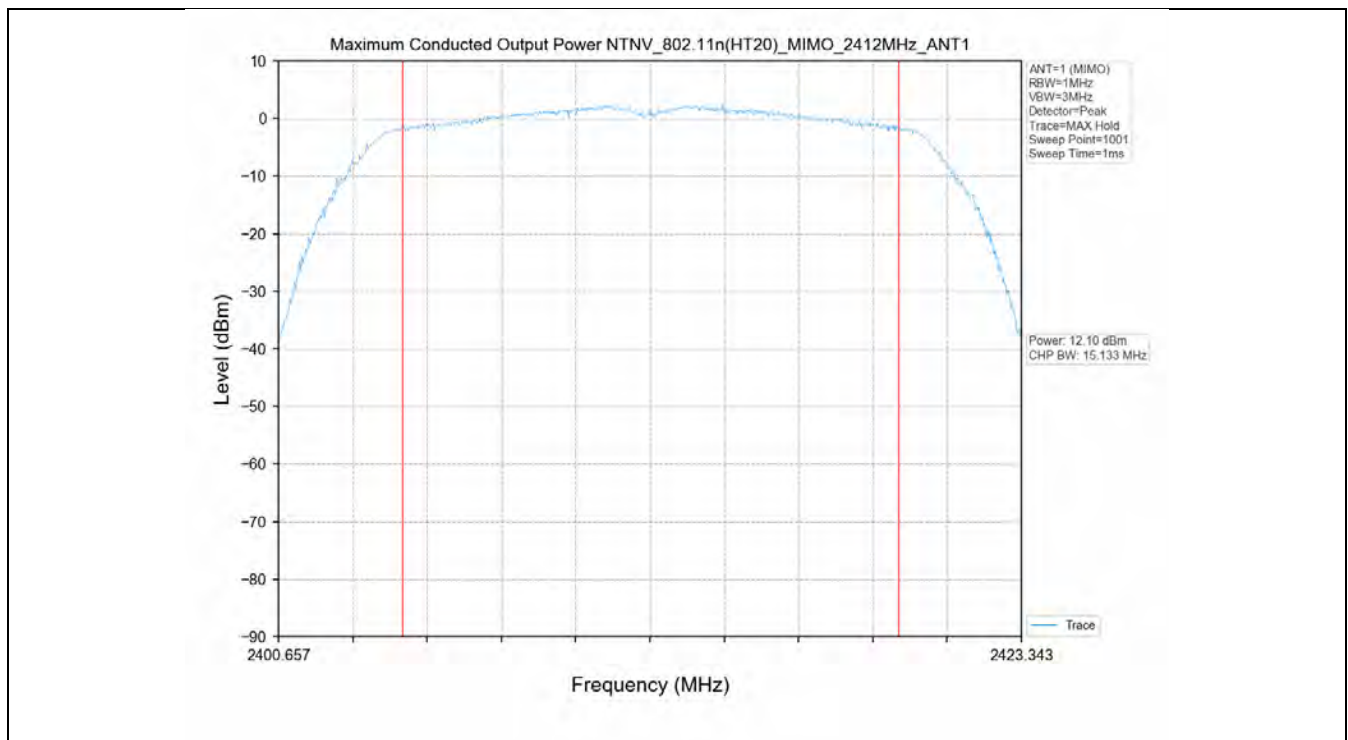
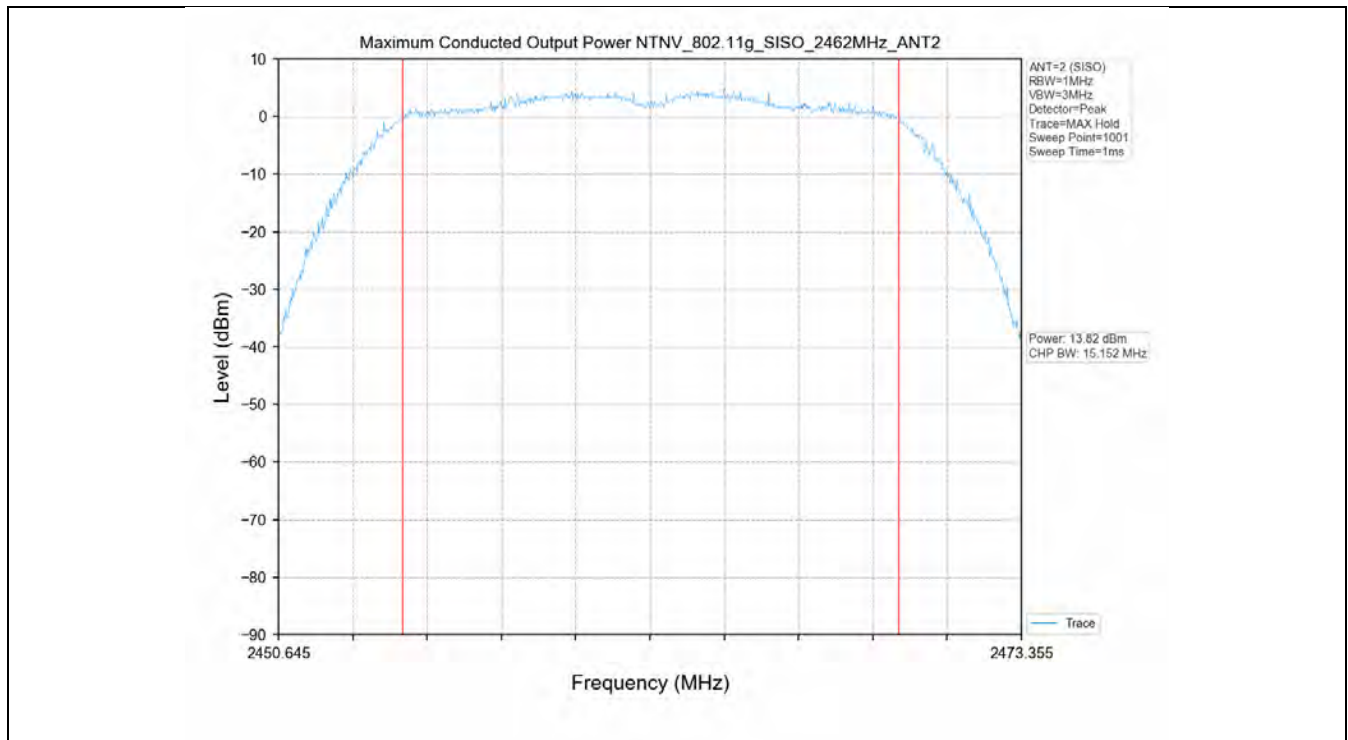


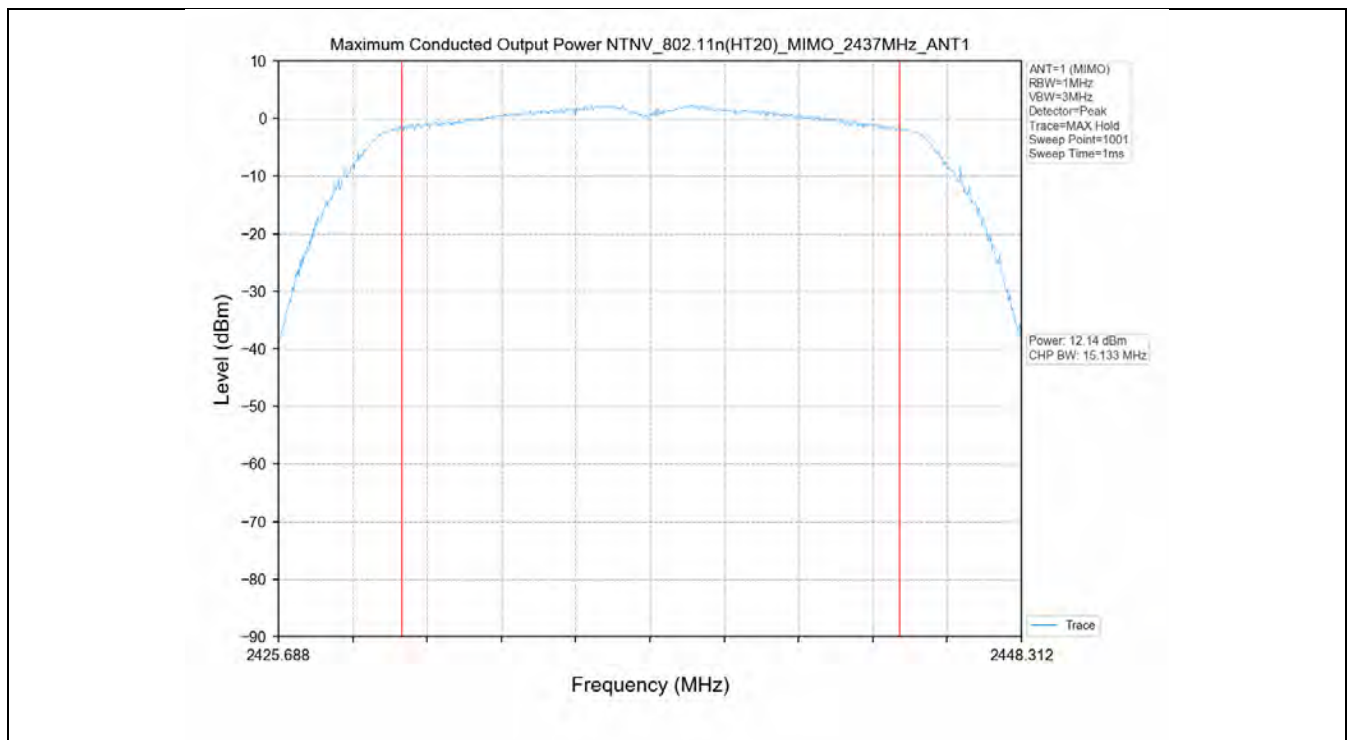
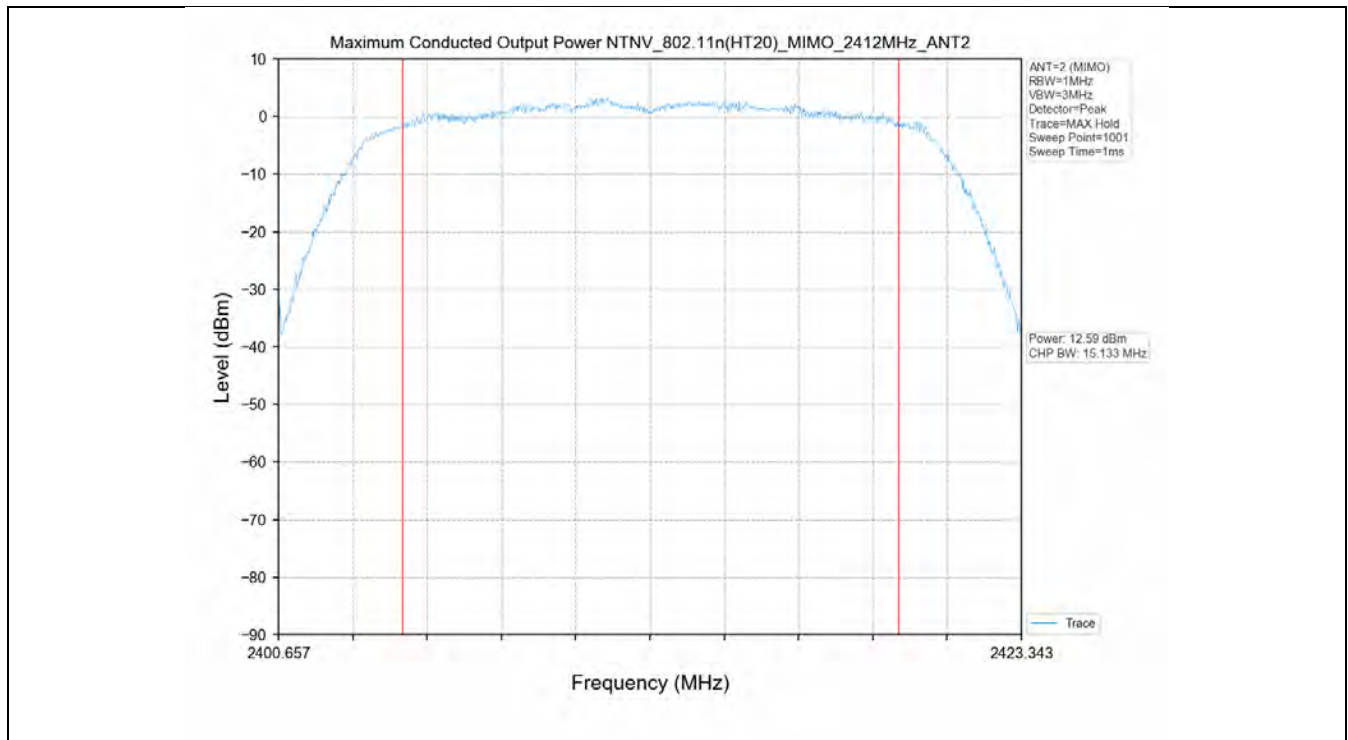


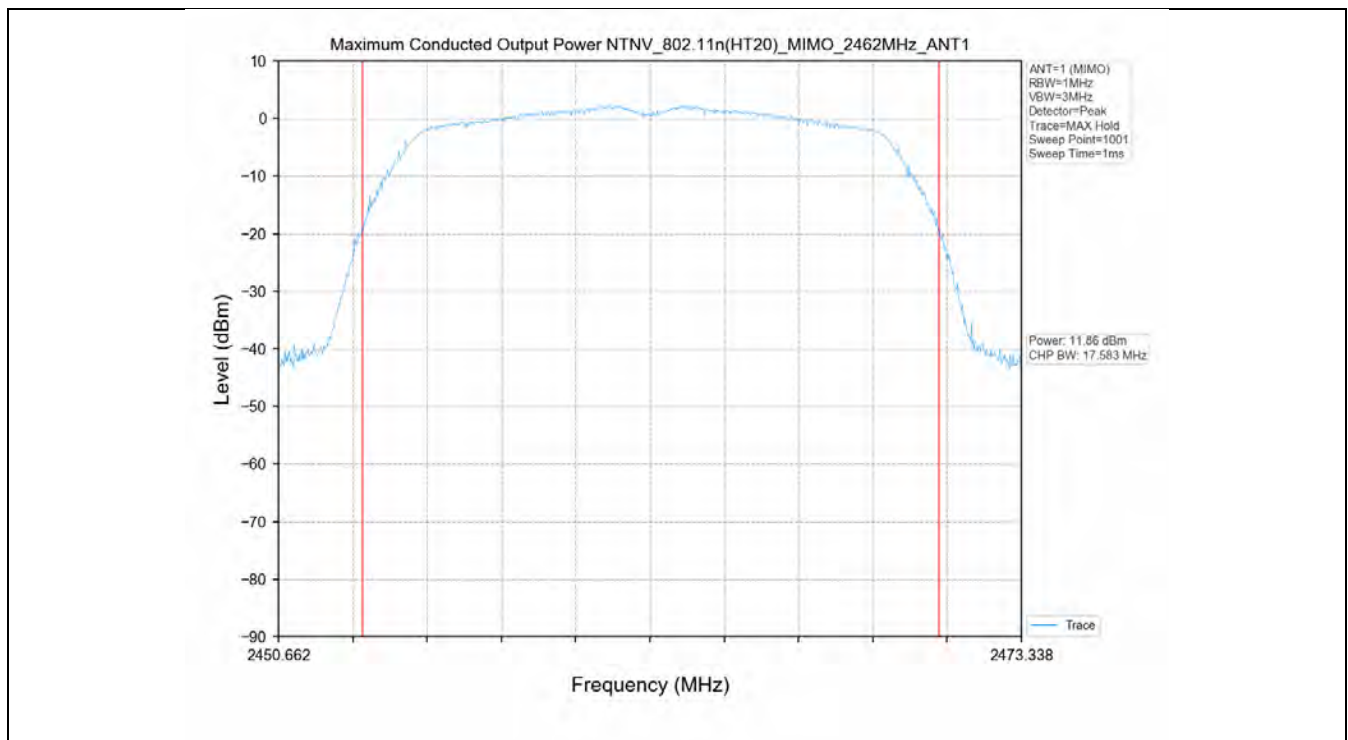
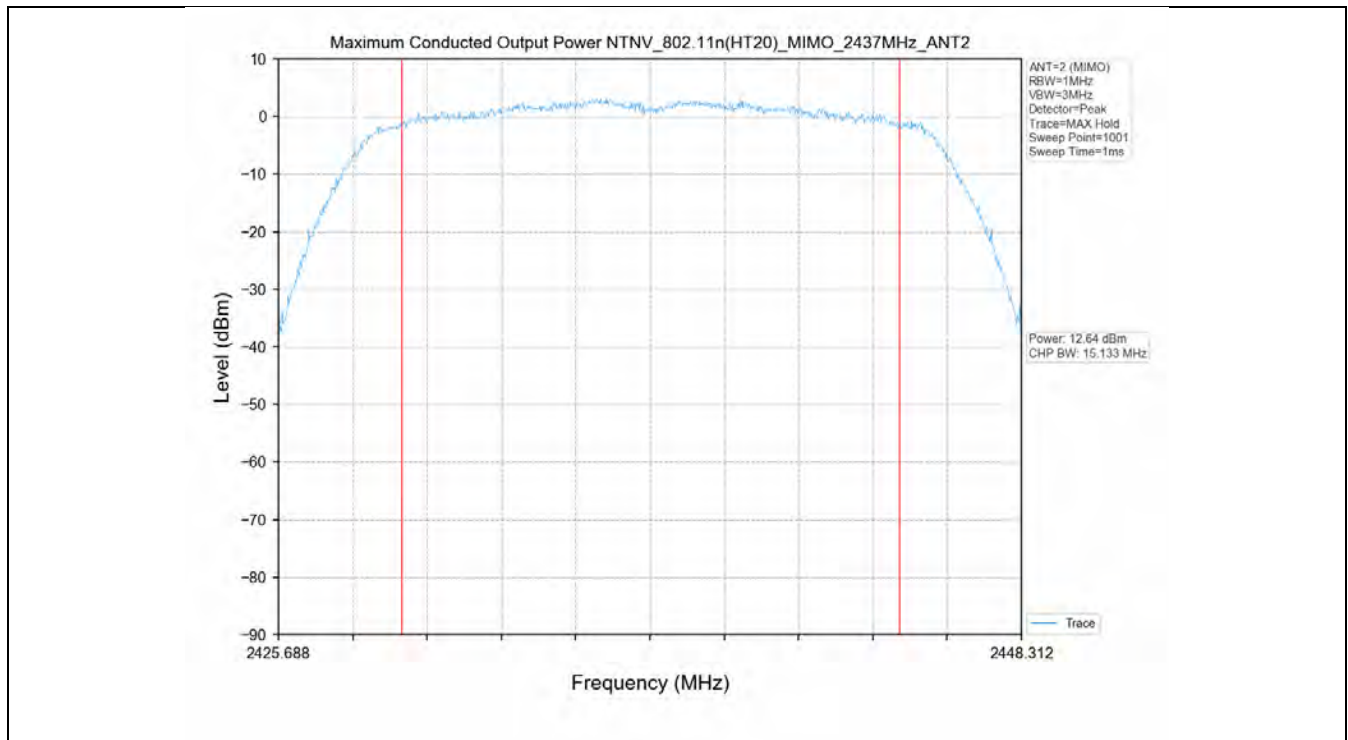


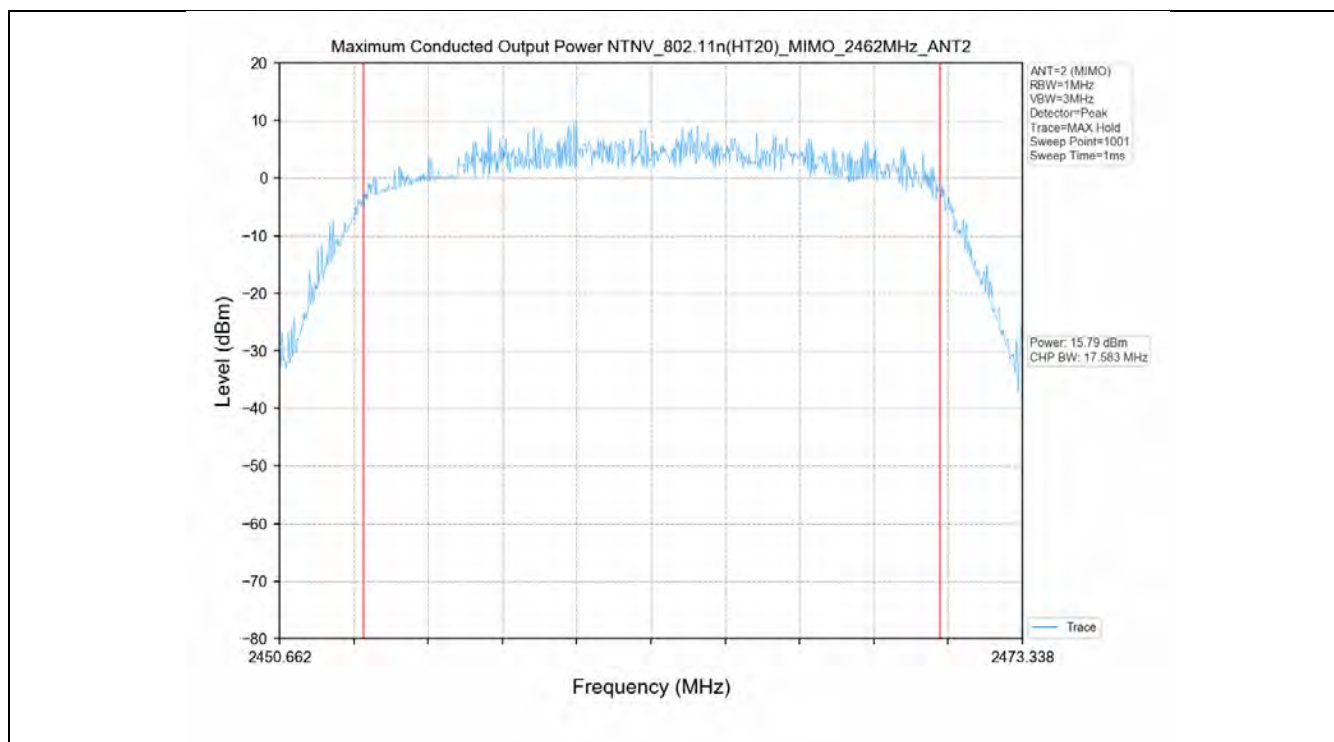










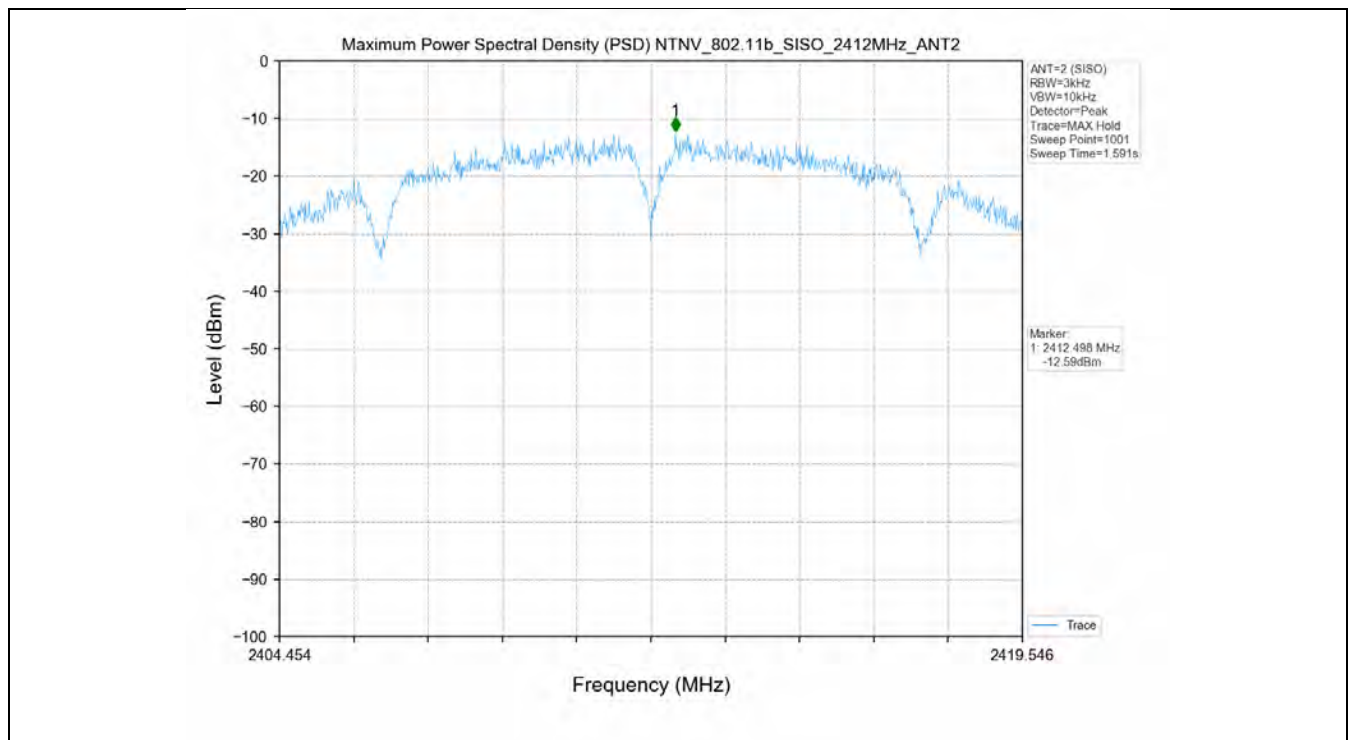
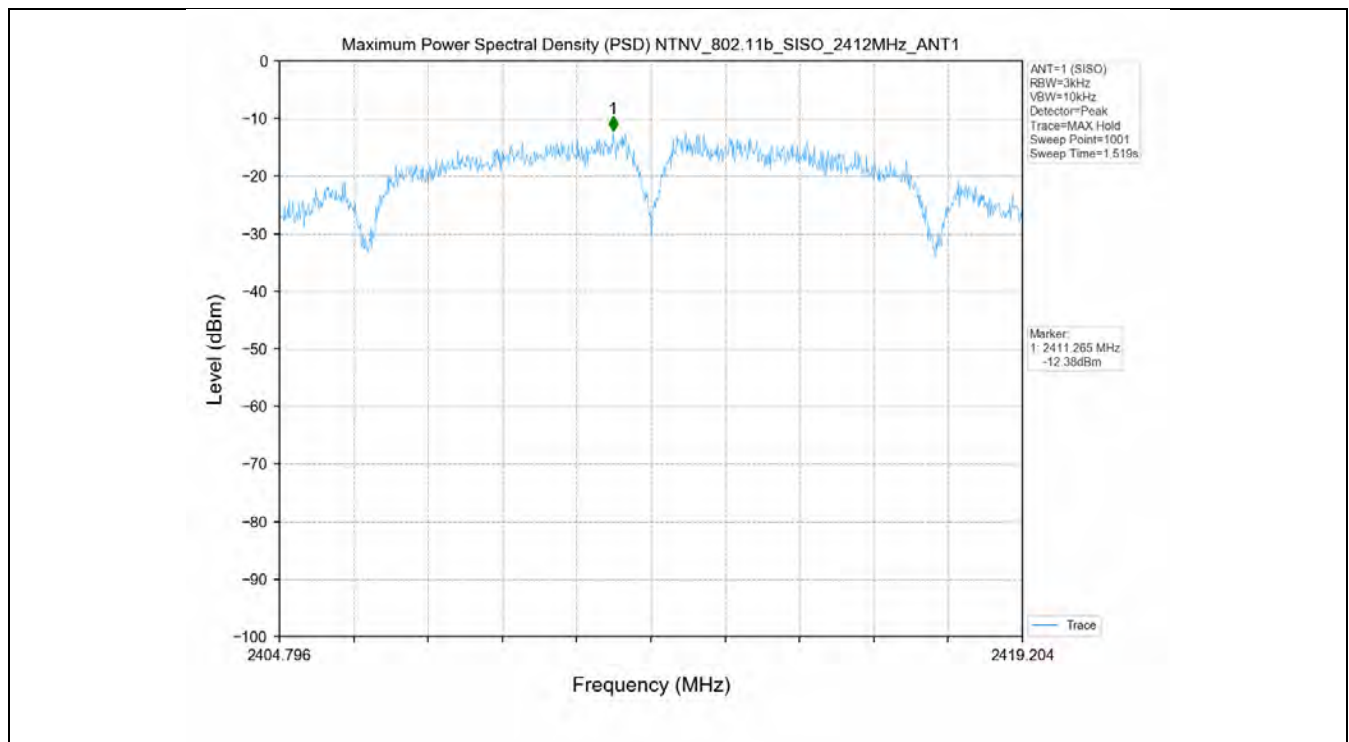


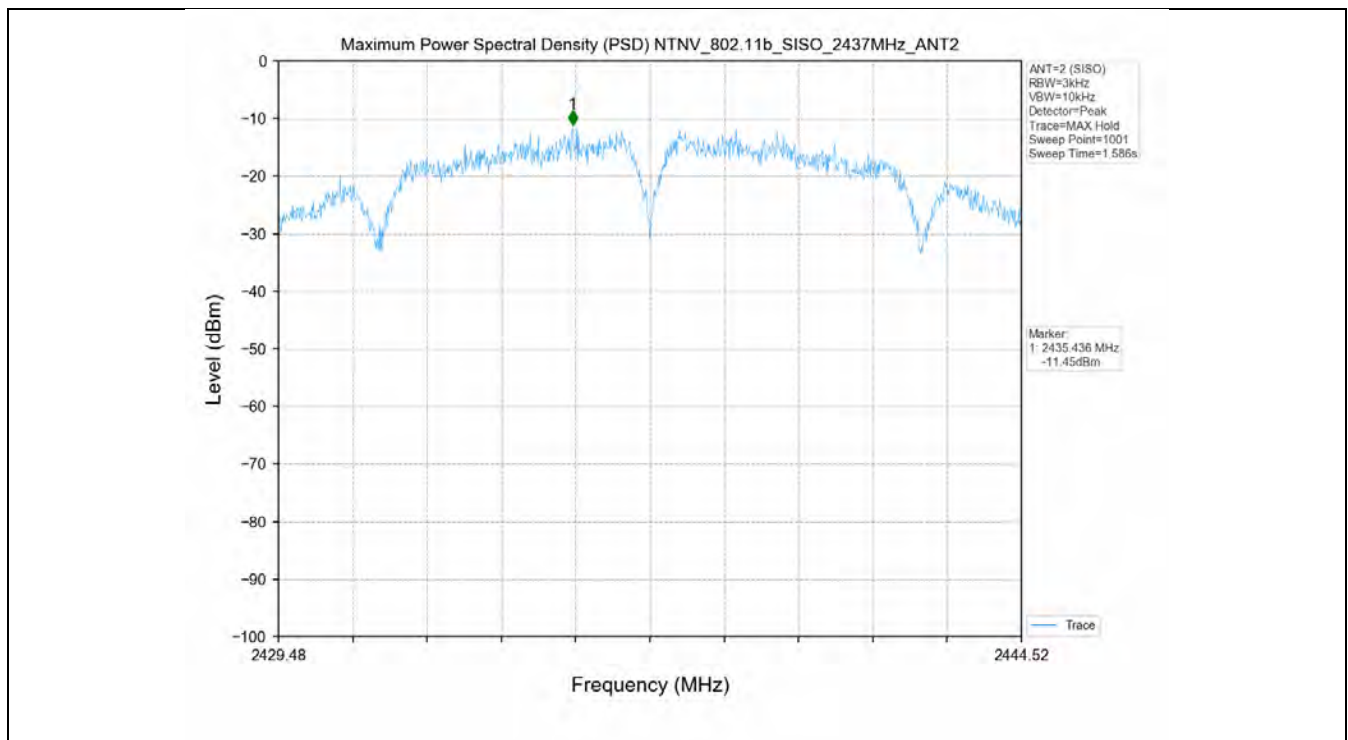
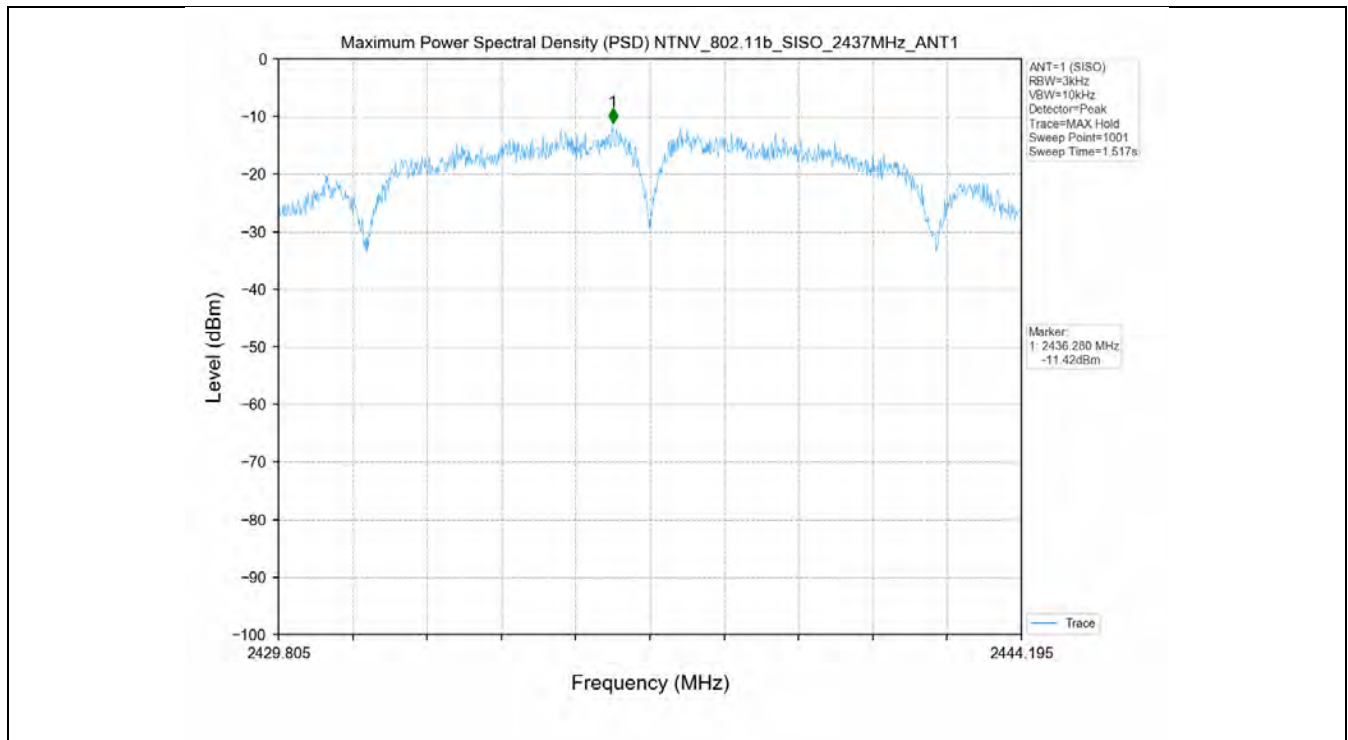
4. Maximum Power Spectral Density (PSD)

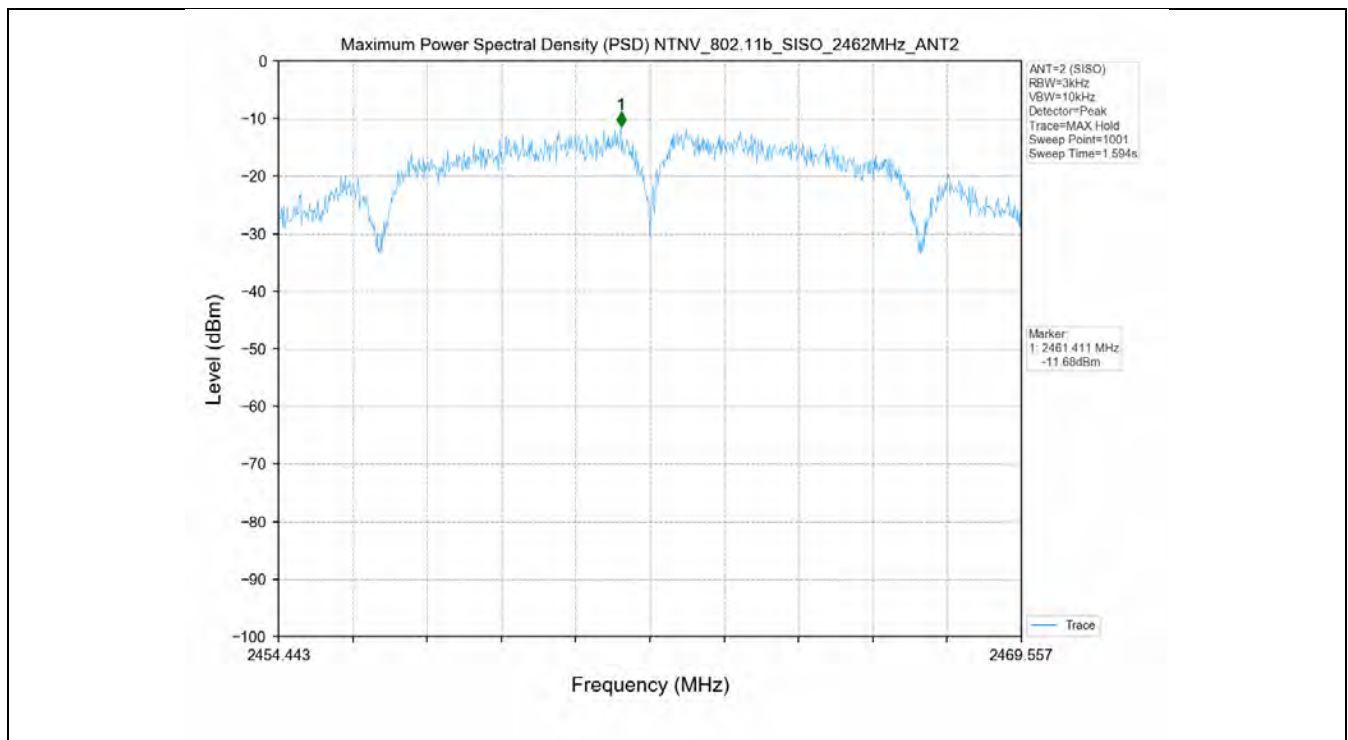
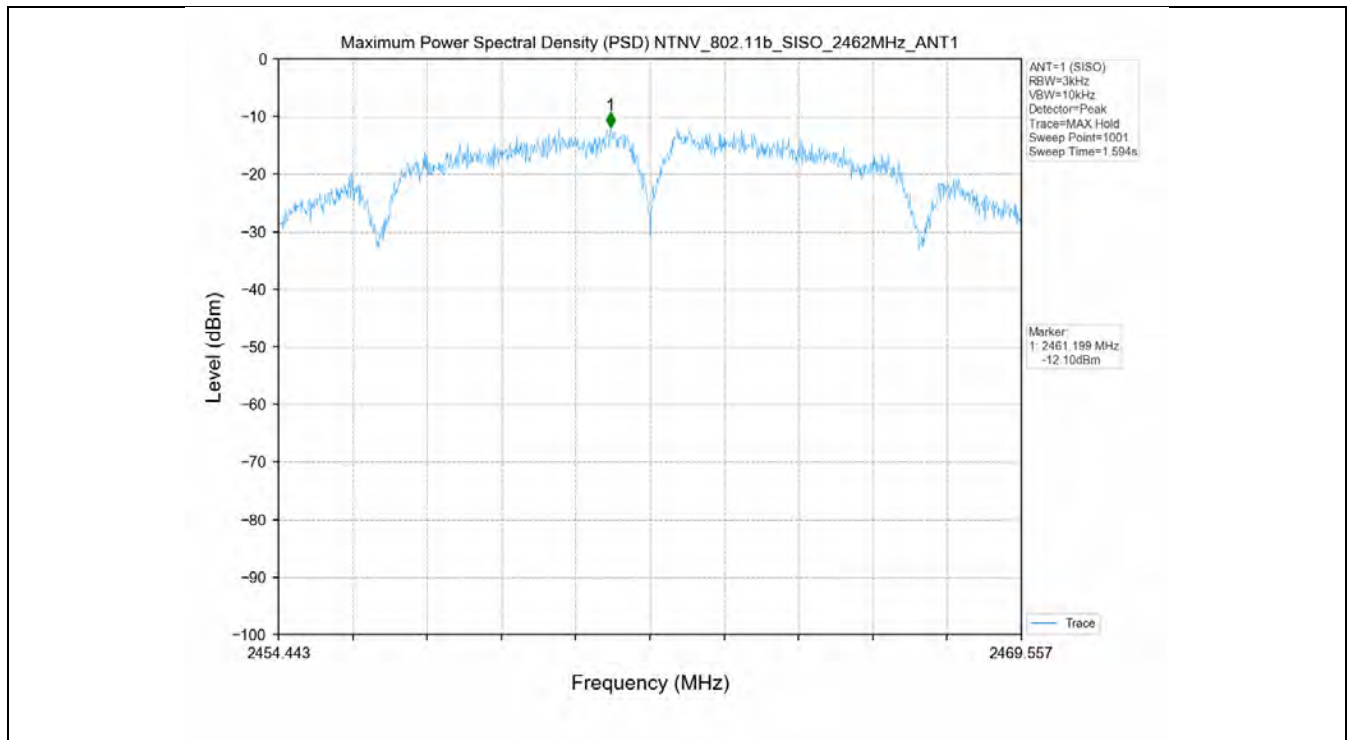
4.1 Test Result

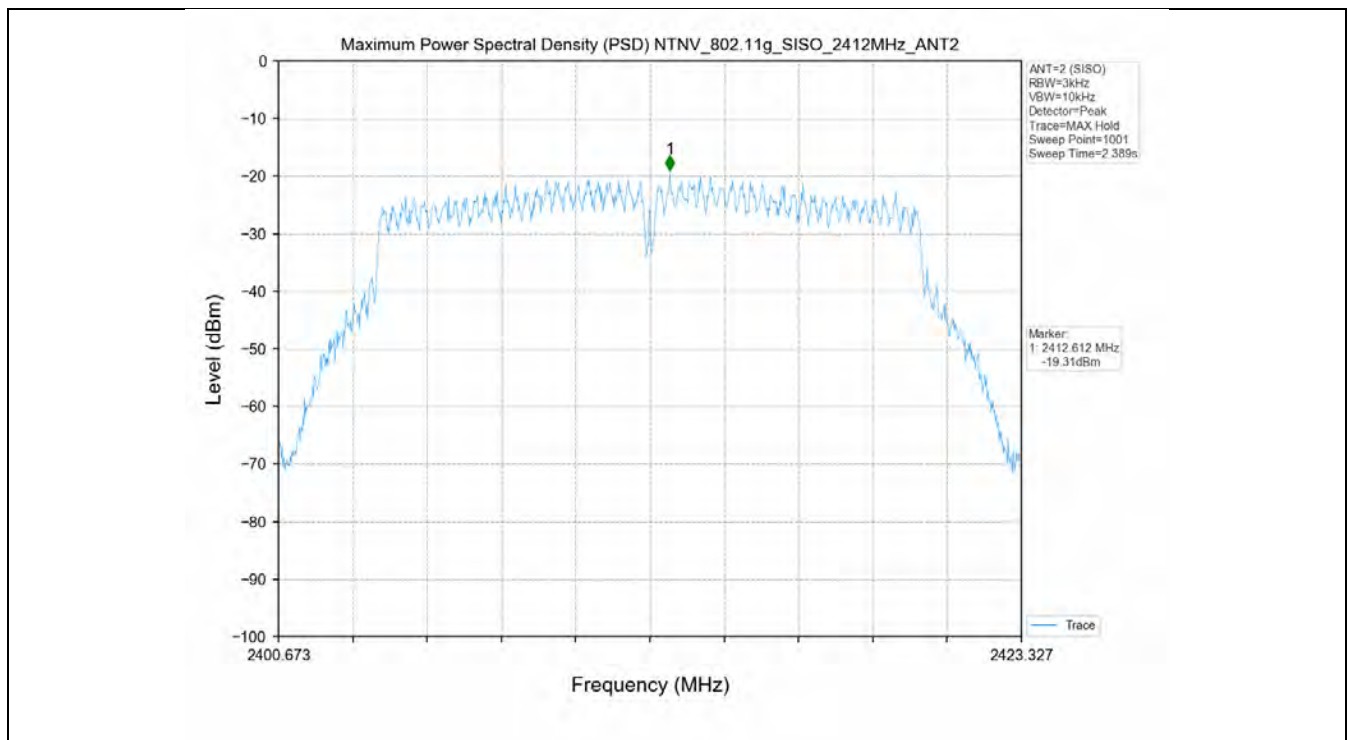
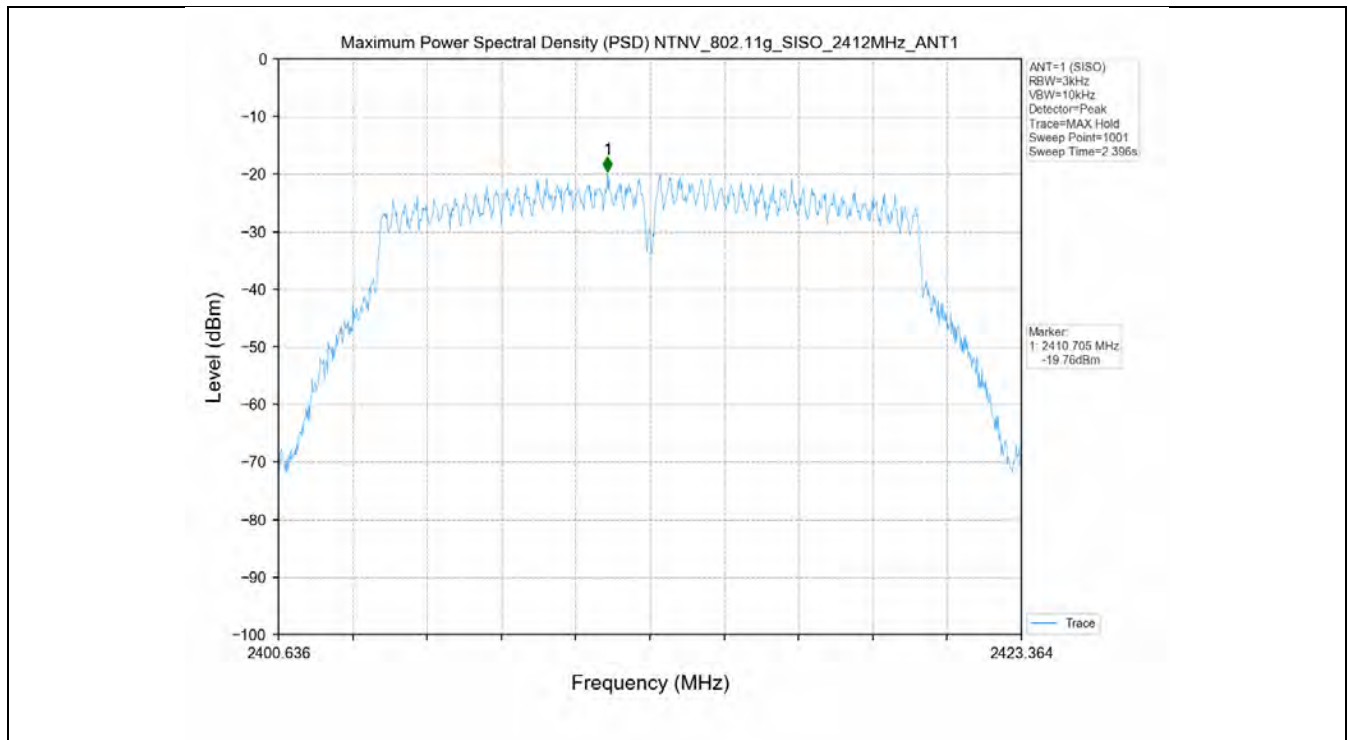
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-12.38	-12.59	/	≤8	PASS
	2437	SISO	-11.42	-11.45	/	≤8	PASS
	2462	SISO	-12.10	-11.68	/	≤8	PASS
802.11g	2412	SISO	-19.76	-19.31	/	≤8	PASS
	2437	SISO	-19.86	-19.43	/	≤8	PASS
	2462	SISO	-19.19	-19.11	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-21.05	-18.55	-16.62	≤7.05	PASS
	2437	MIMO	-20.44	-20.44	-17.43	≤7.05	PASS
	2462	MIMO	-17.09	-15.61	-14.96	≤7.05	PASS

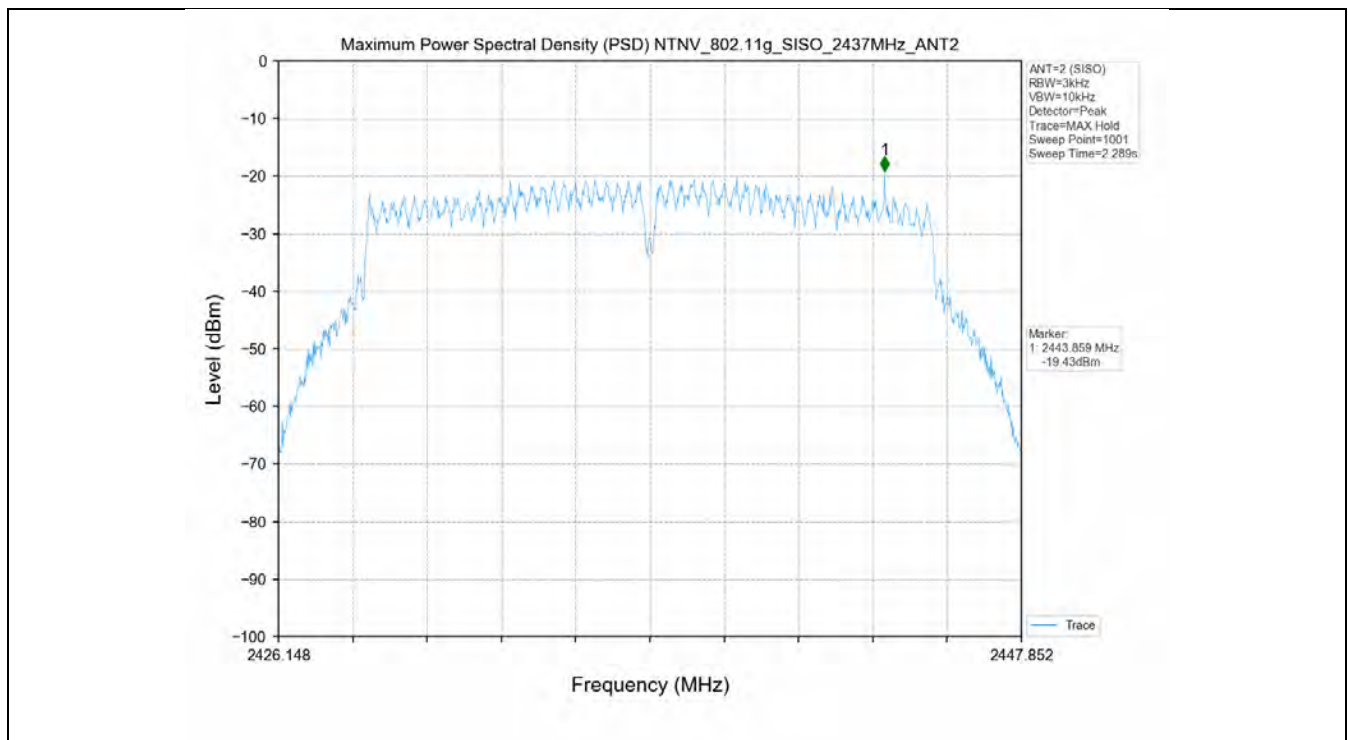
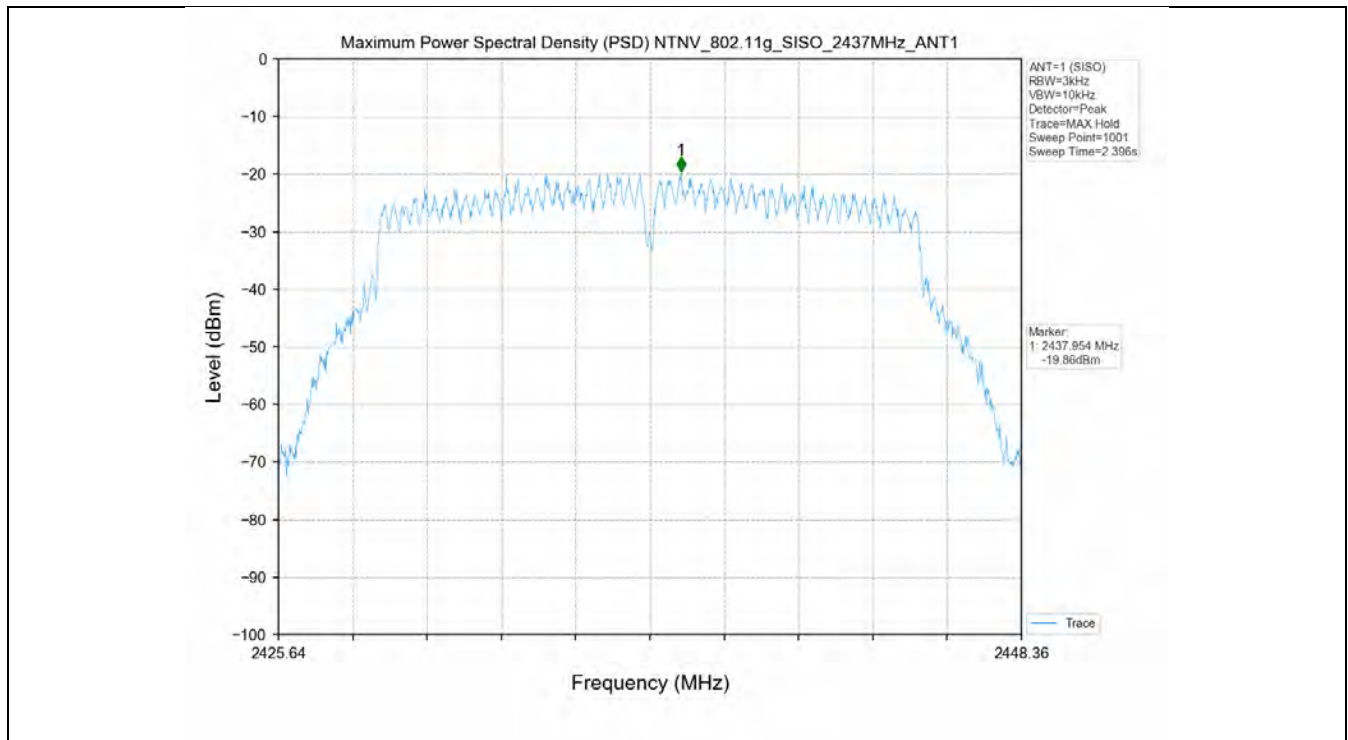
4.2 Test Graph

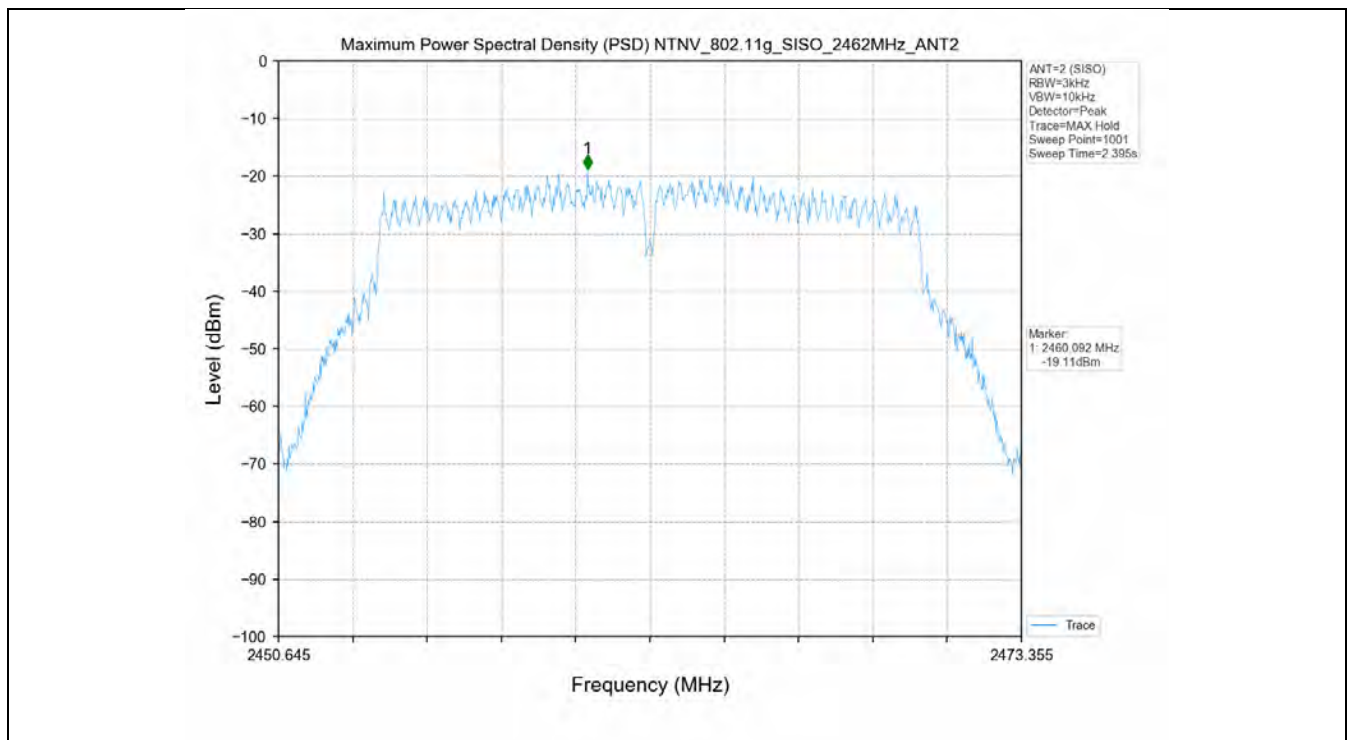
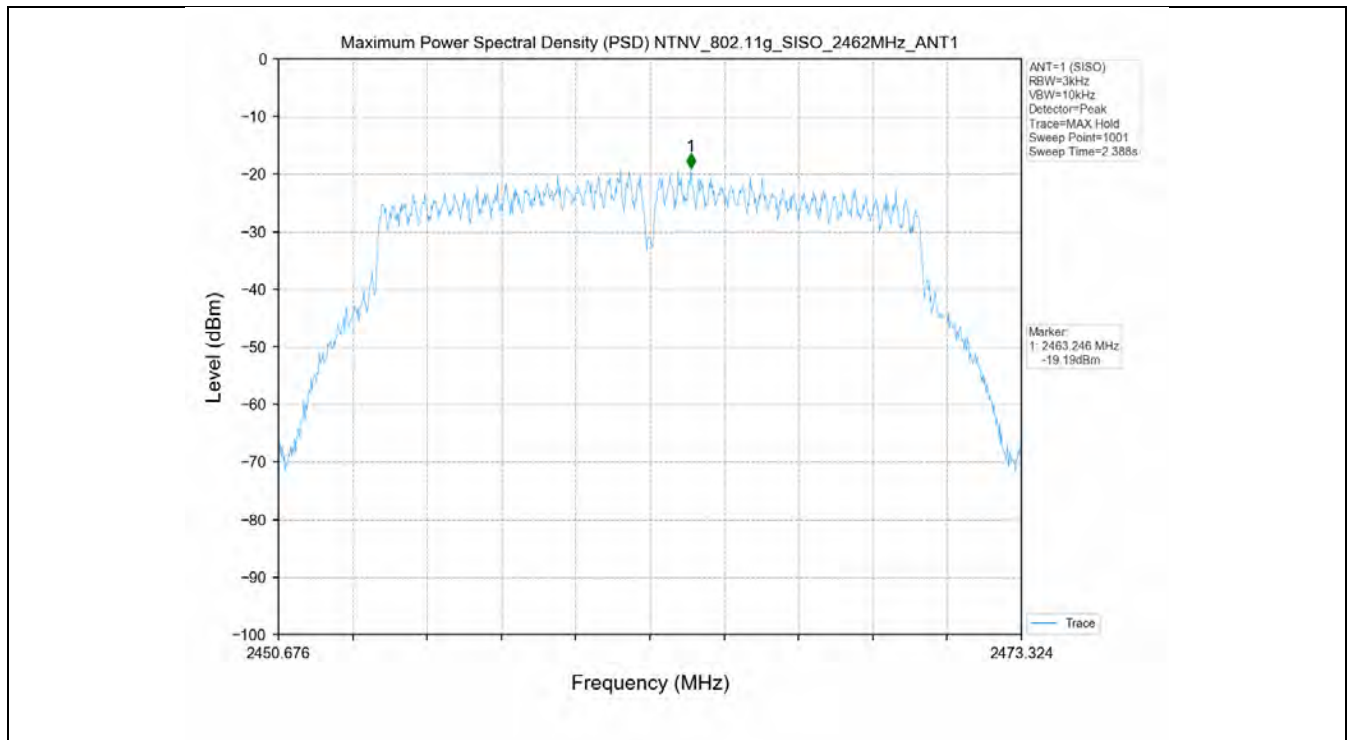


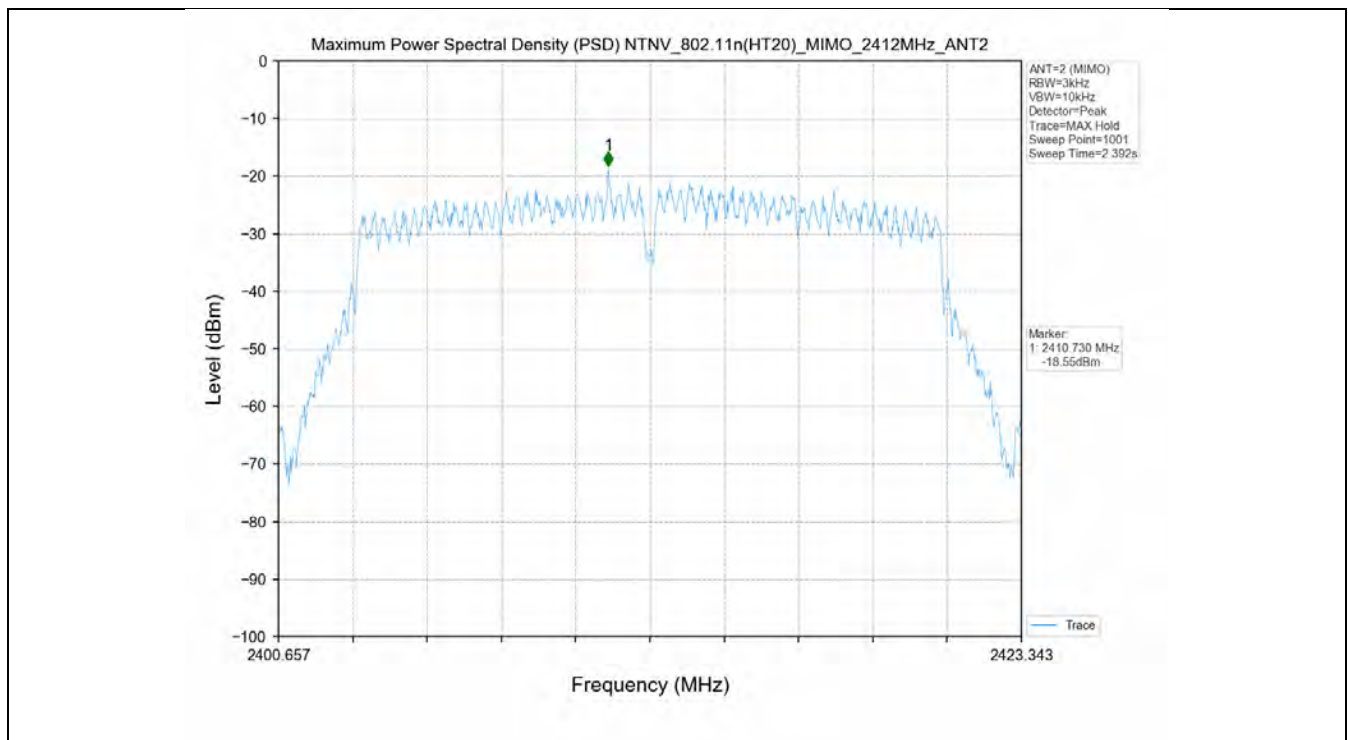
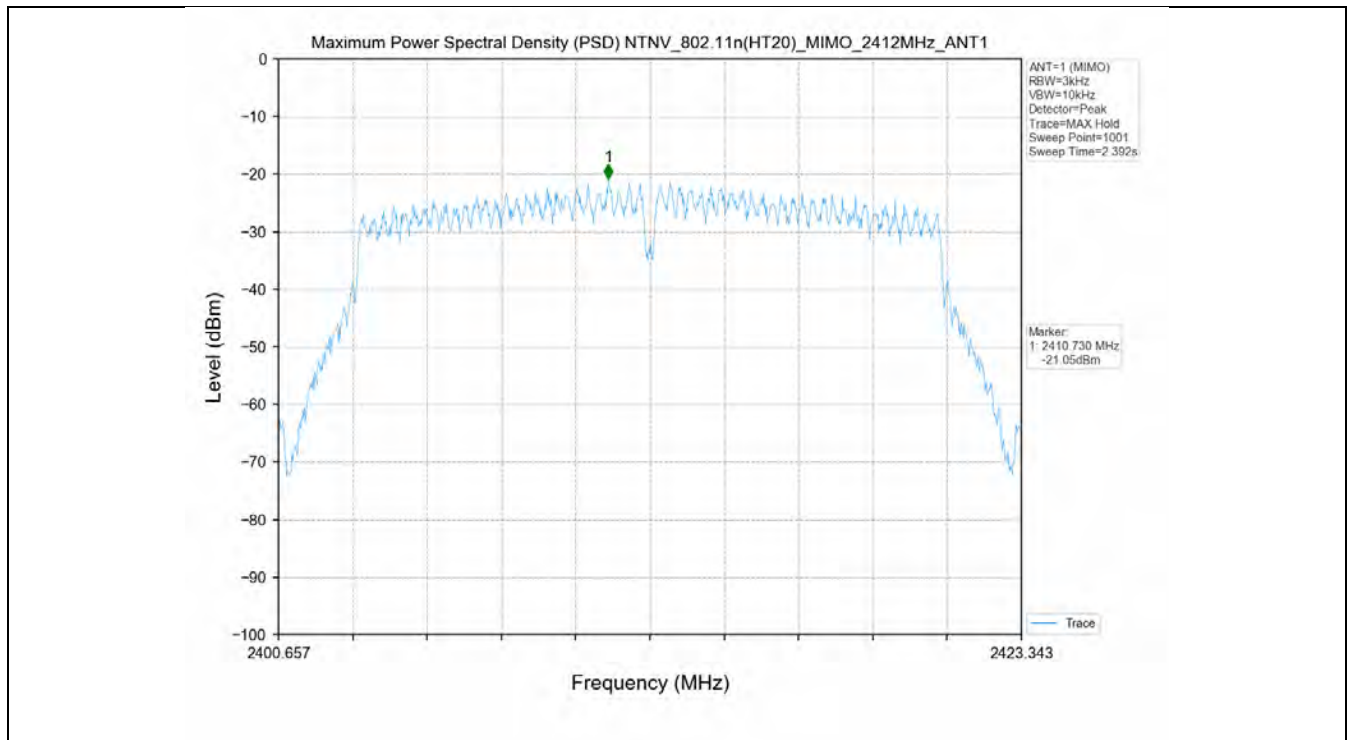


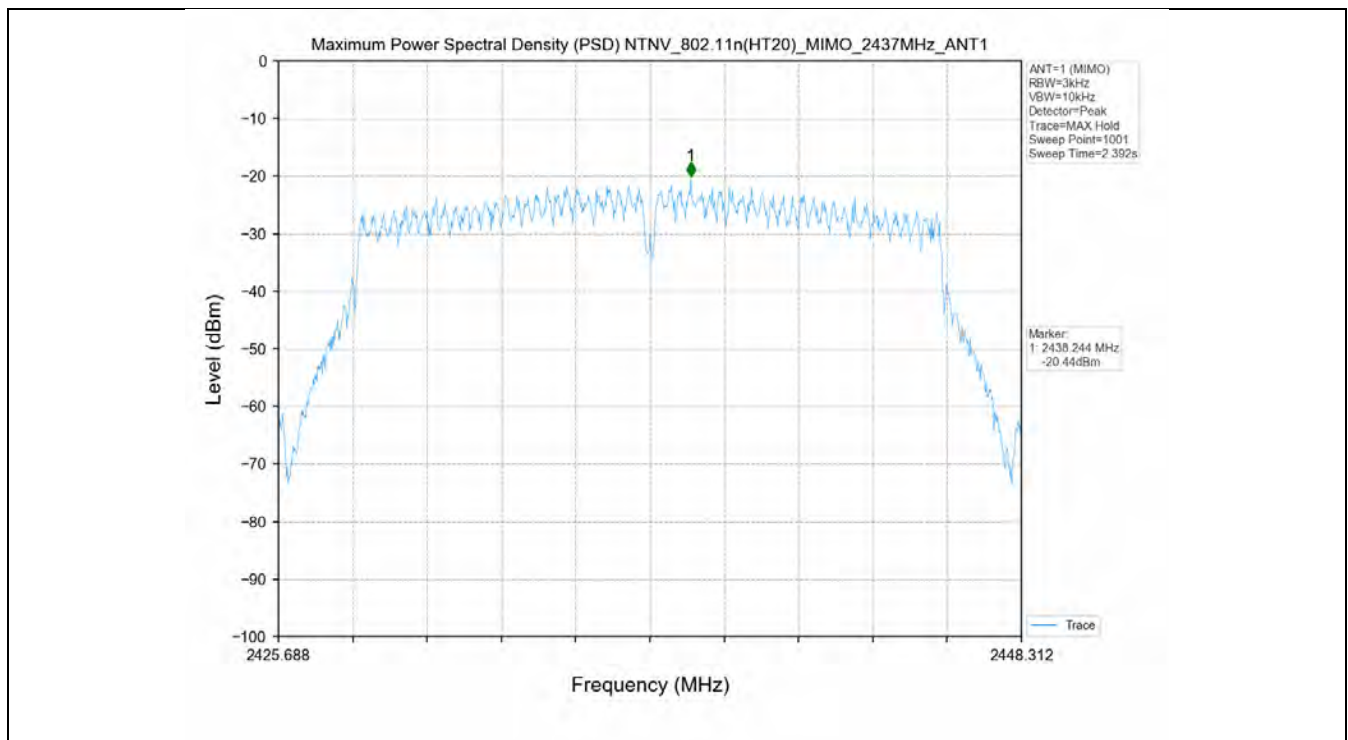
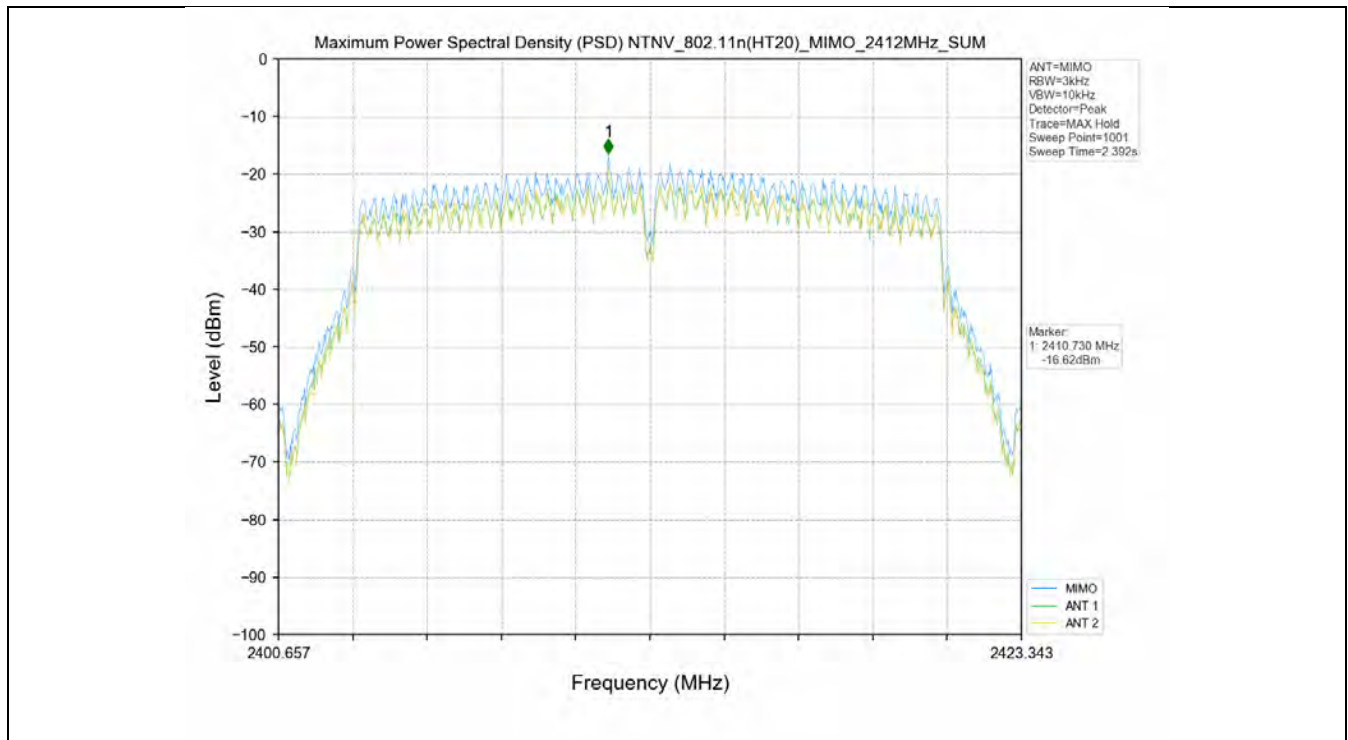


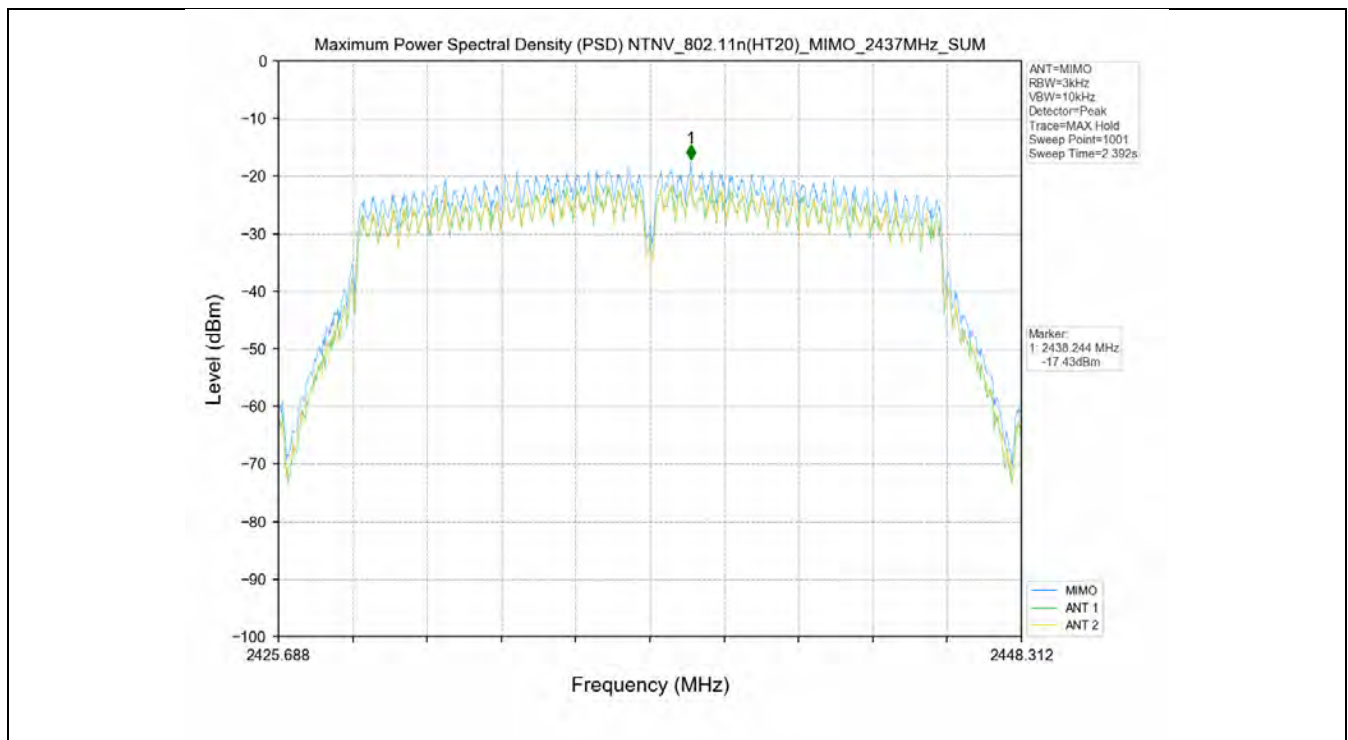
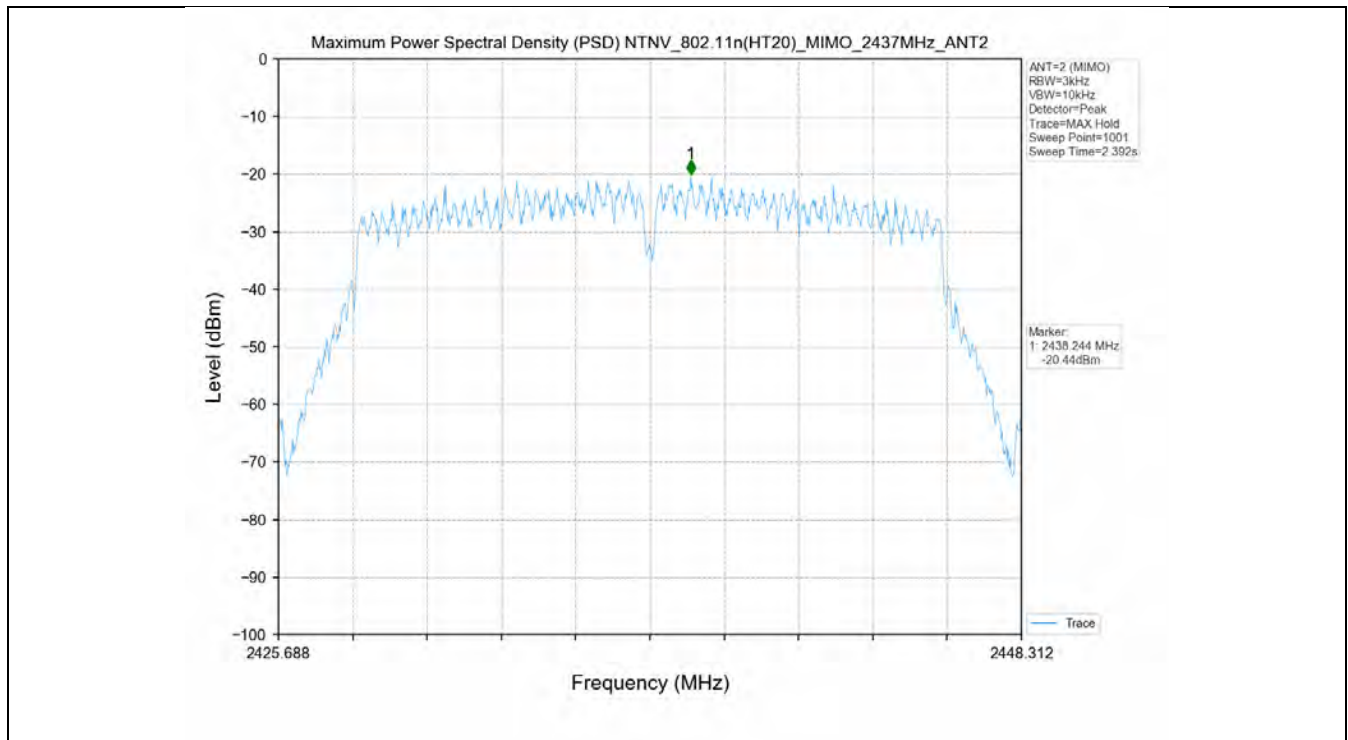


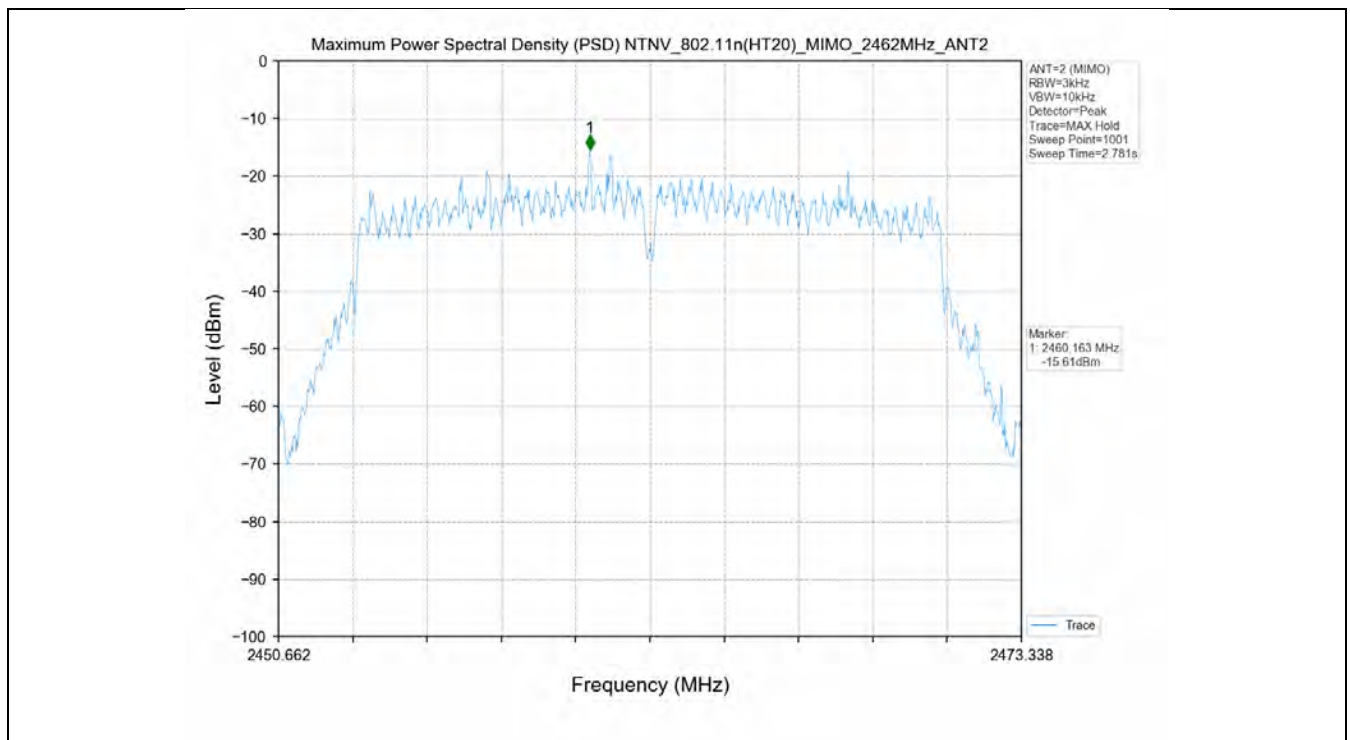
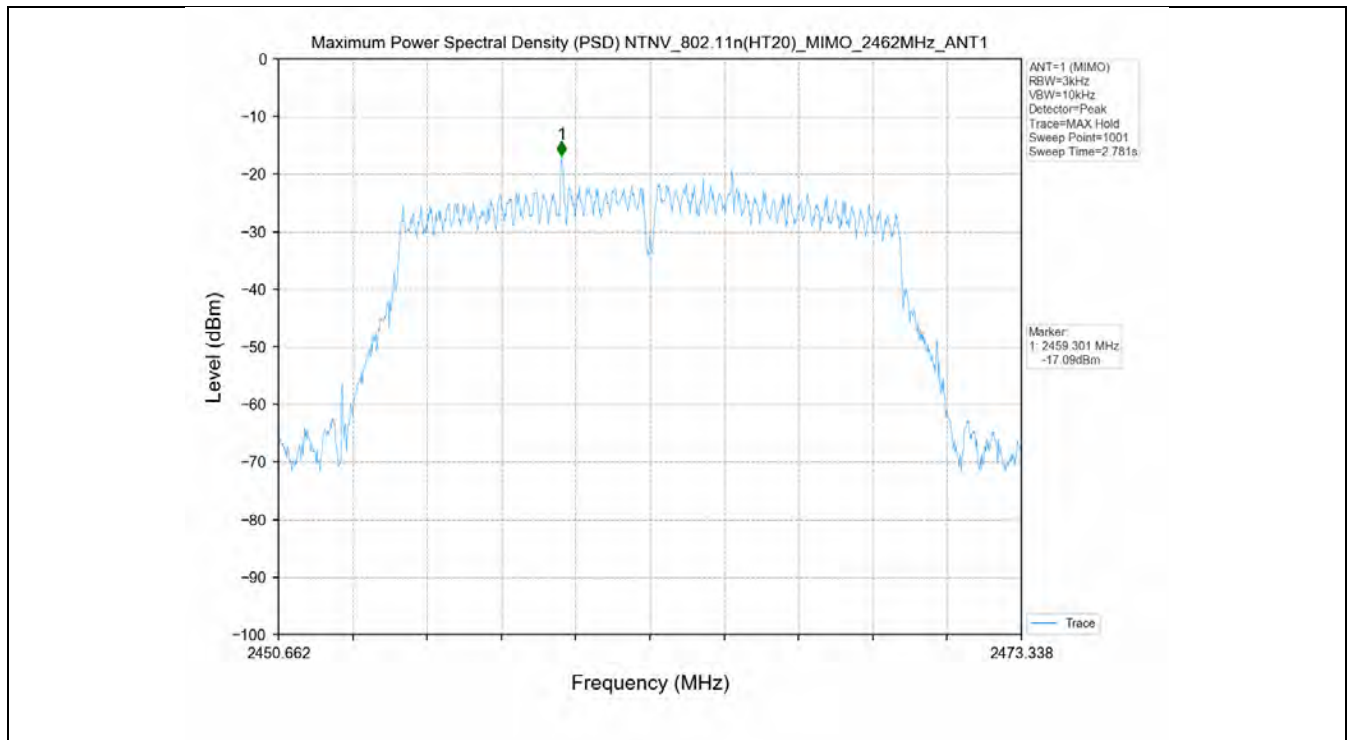














5. Unwanted Emissions in Non-restricted Frequency Bands

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	-15.96	PASS
			2	Refer to test graph	-15.96	PASS
	2437	SISO	1	Refer to test graph	-15.96	PASS
			2	Refer to test graph	-15.96	PASS
	2462	SISO	1	Refer to test graph	-15.96	PASS
			2	Refer to test graph	-15.96	PASS
802.11g	2412	SISO	1	Refer to test graph	-23.48	PASS
			2	Refer to test graph	-23.48	PASS
	2437	SISO	1	Refer to test graph	-23.48	PASS
			2	Refer to test graph	-23.48	PASS
	2462	SISO	1	Refer to test graph	-23.48	PASS
			2	Refer to test graph	-23.48	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-24.58	PASS
			2	Refer to test graph	-24.58	PASS
	2437	MIMO	1	Refer to test graph	-24.58	PASS
			2	Refer to test graph	-24.58	PASS
	2462	MIMO	1	Refer to test graph	-24.58	PASS
			2	Refer to test graph	-24.58	PASS

5.2 Test Graph

