



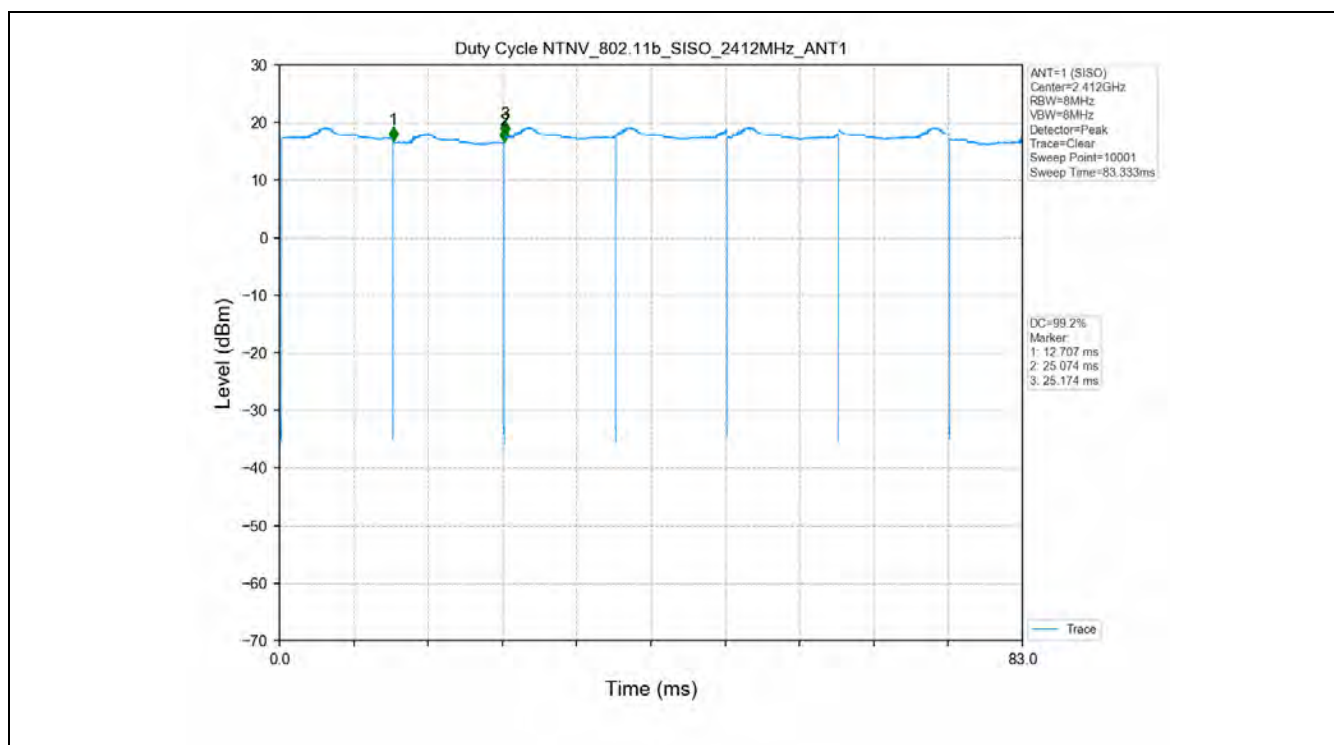
Appendix A for SHEM200700586501

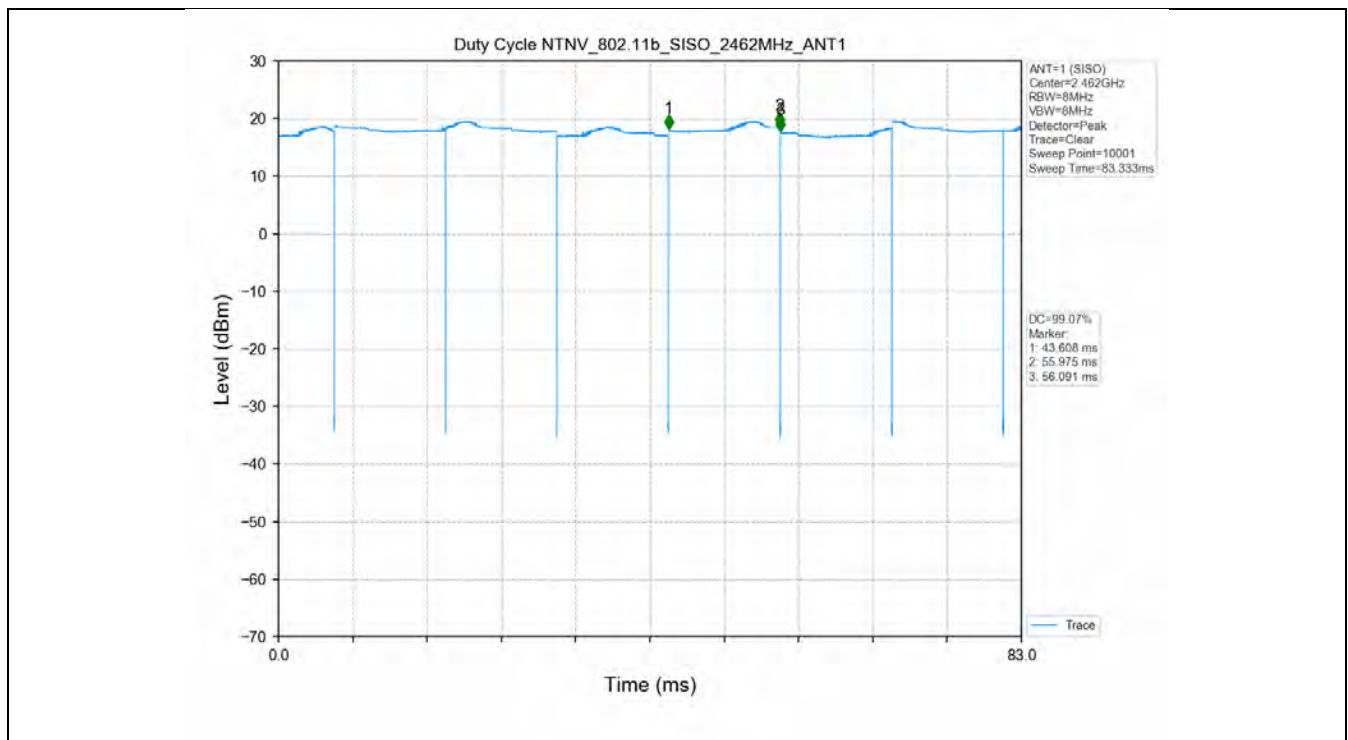
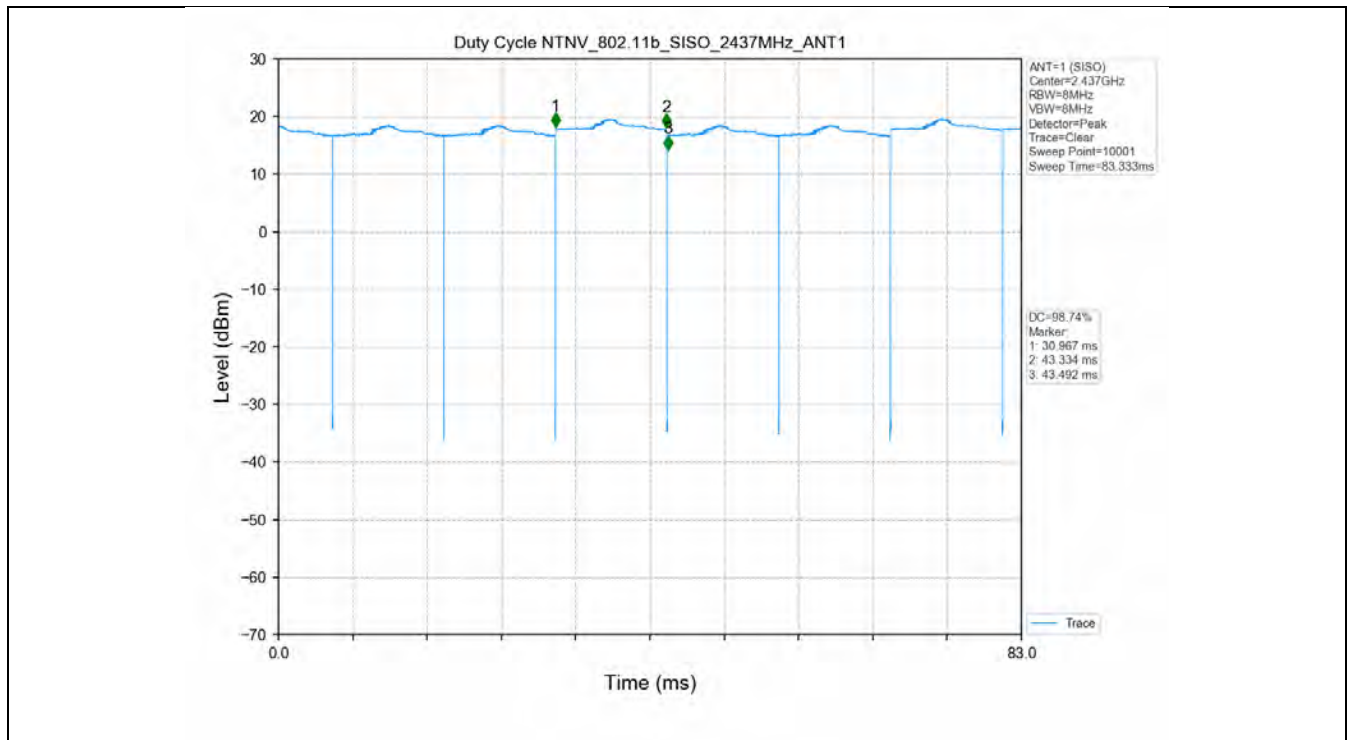
1. Duty Cycle

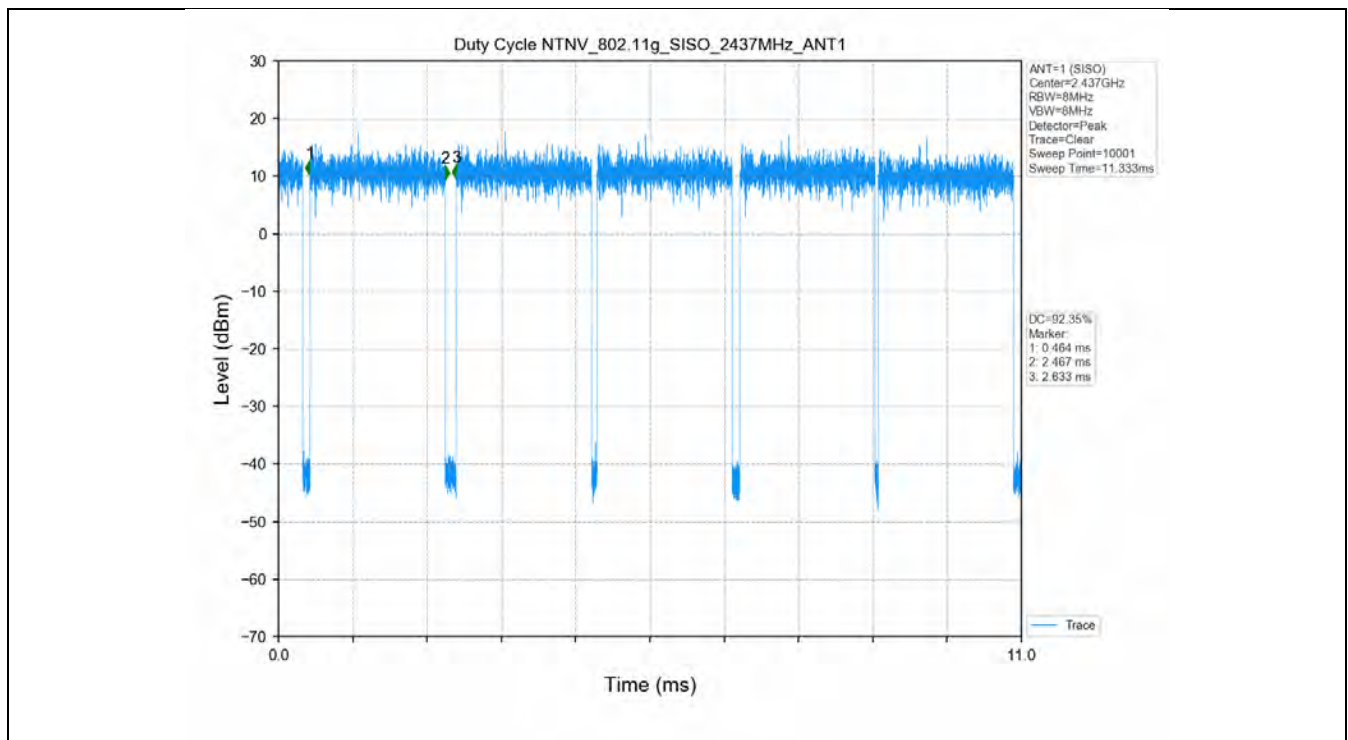
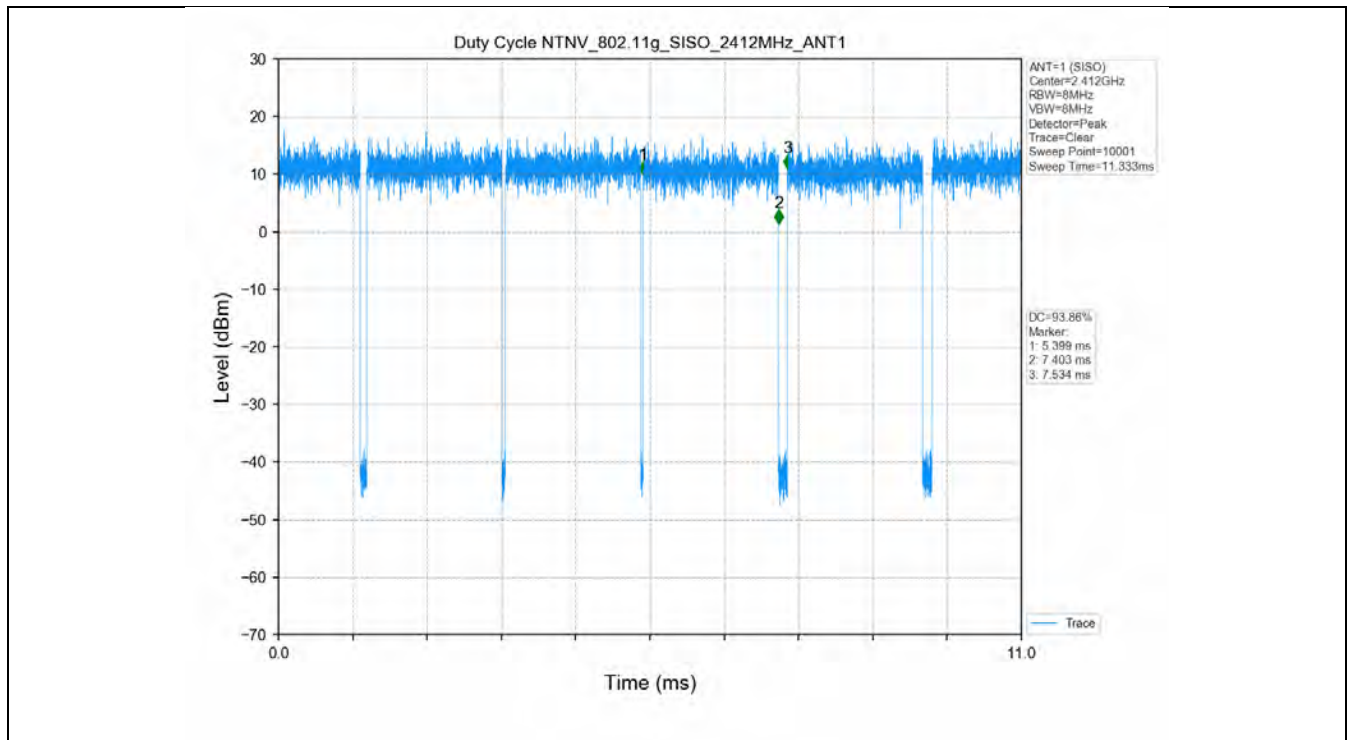
1.1 Test Result

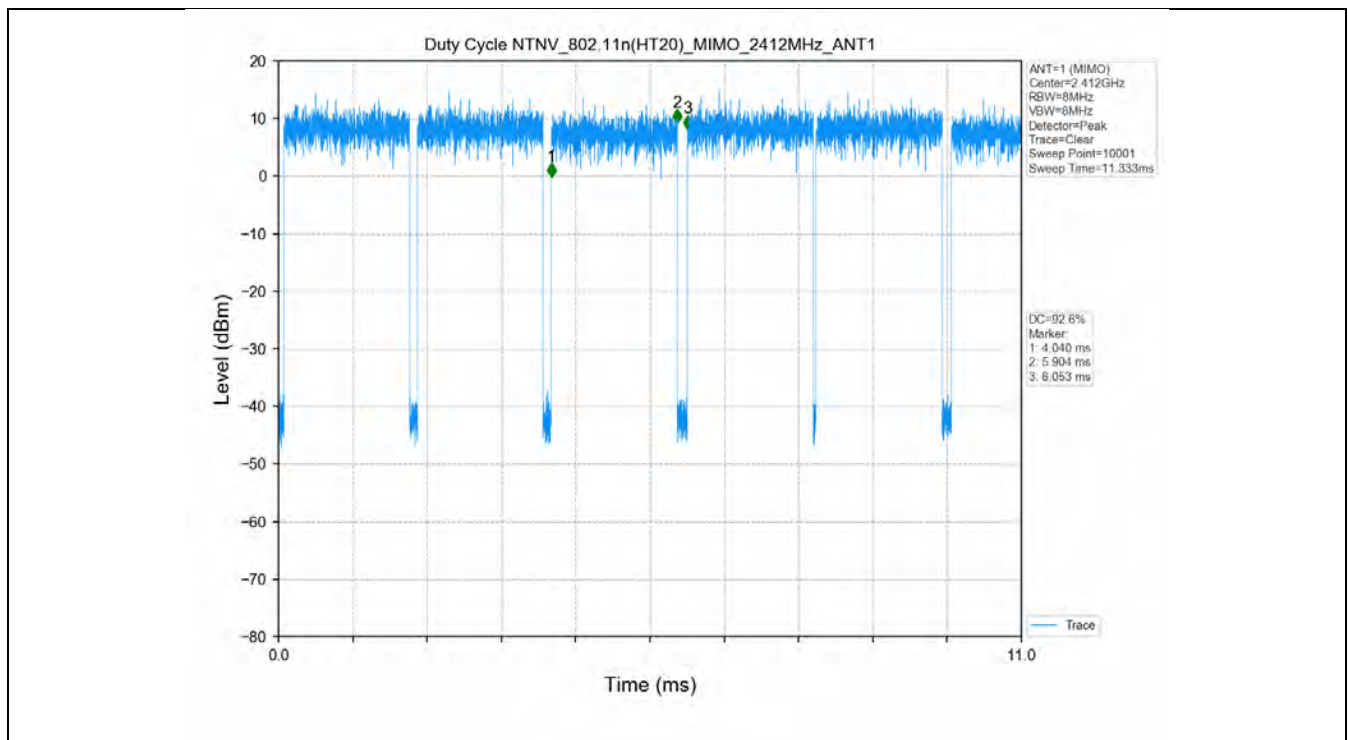
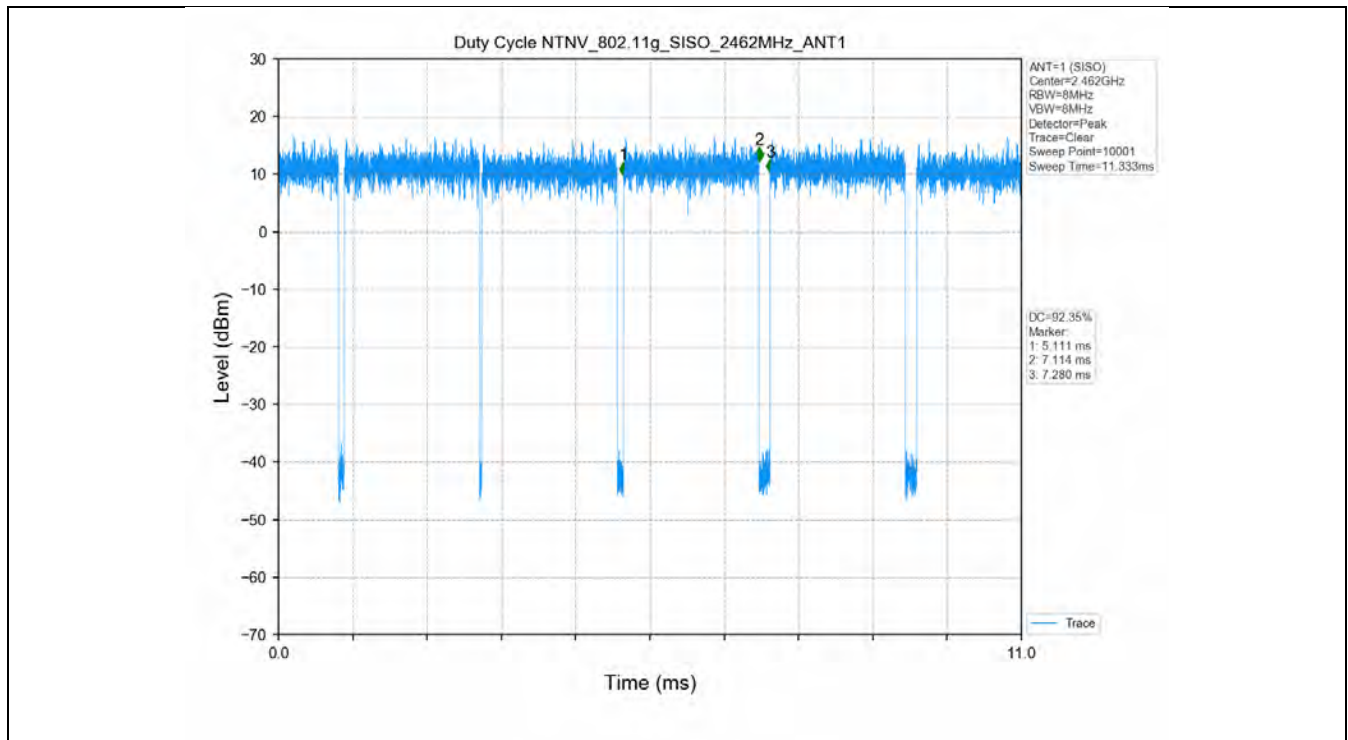
Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.367	12.467	99.20	0.03
	2437	SISO	1	12.367	12.525	98.74	0.06
	2462	SISO	1	12.367	12.483	99.07	0.04
802.11g	2412	SISO	1	2.004	2.135	93.86	0.28
	2437	SISO	1	2.003	2.169	92.35	0.35
	2462	SISO	1	2.003	2.169	92.35	0.35
802.11n(HT20)	2412	MIMO	1	1.864	2.013	92.60	0.33
	2437	MIMO	1	1.864	2.030	91.82	0.37
	2462	MIMO	1	1.920	2.091	91.82	0.37

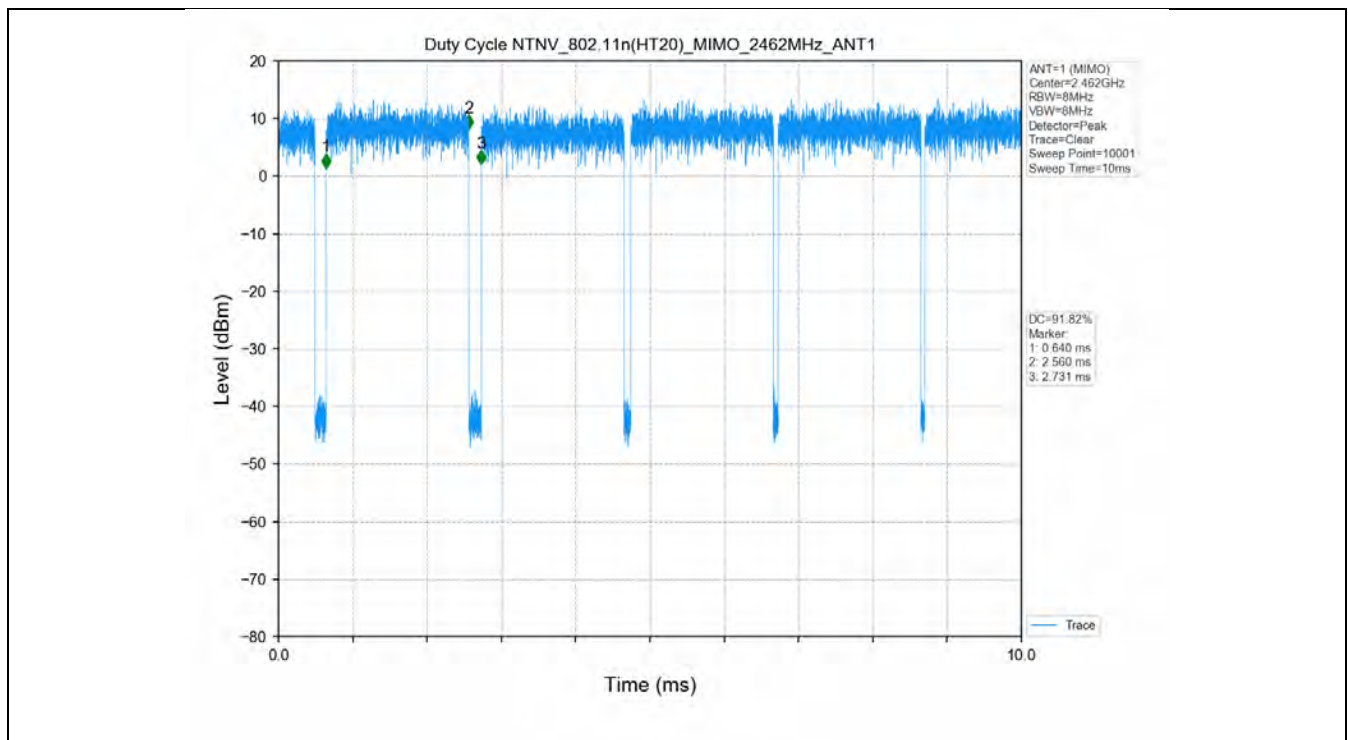
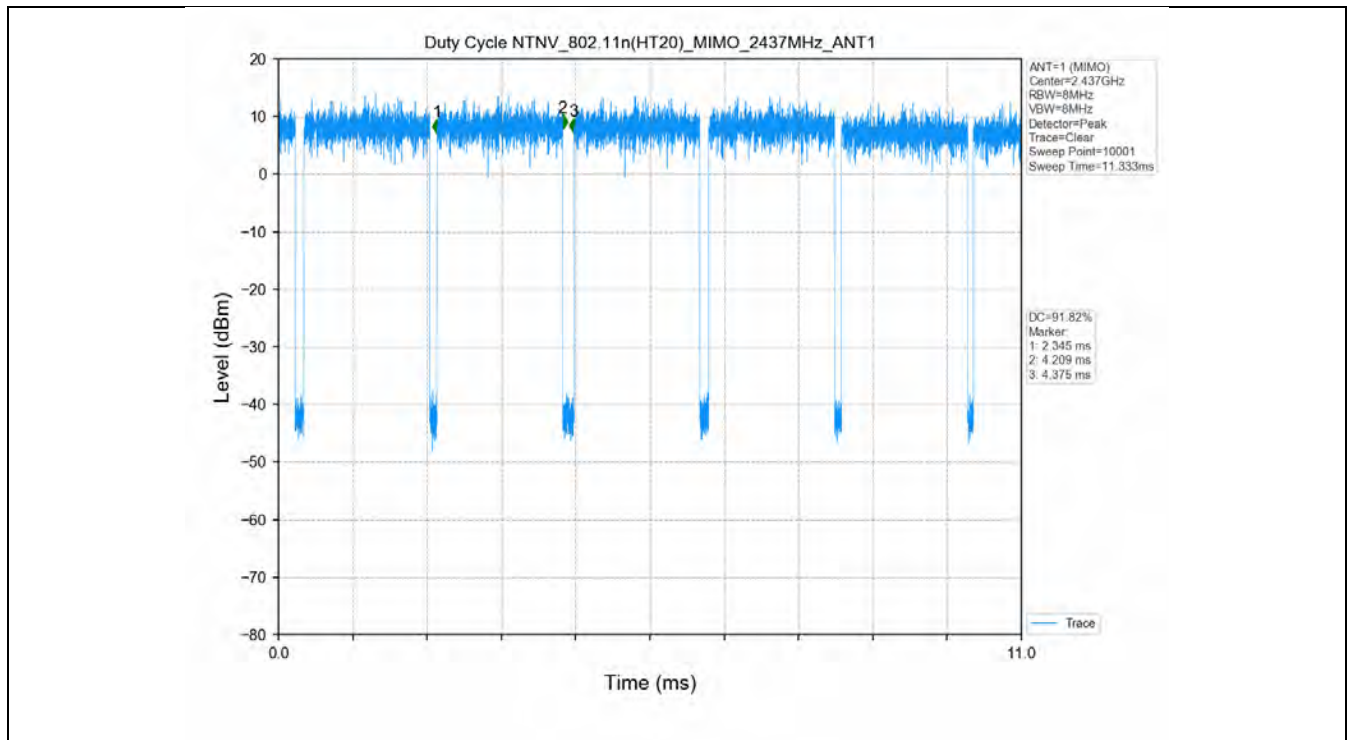
1.2 Test Graph













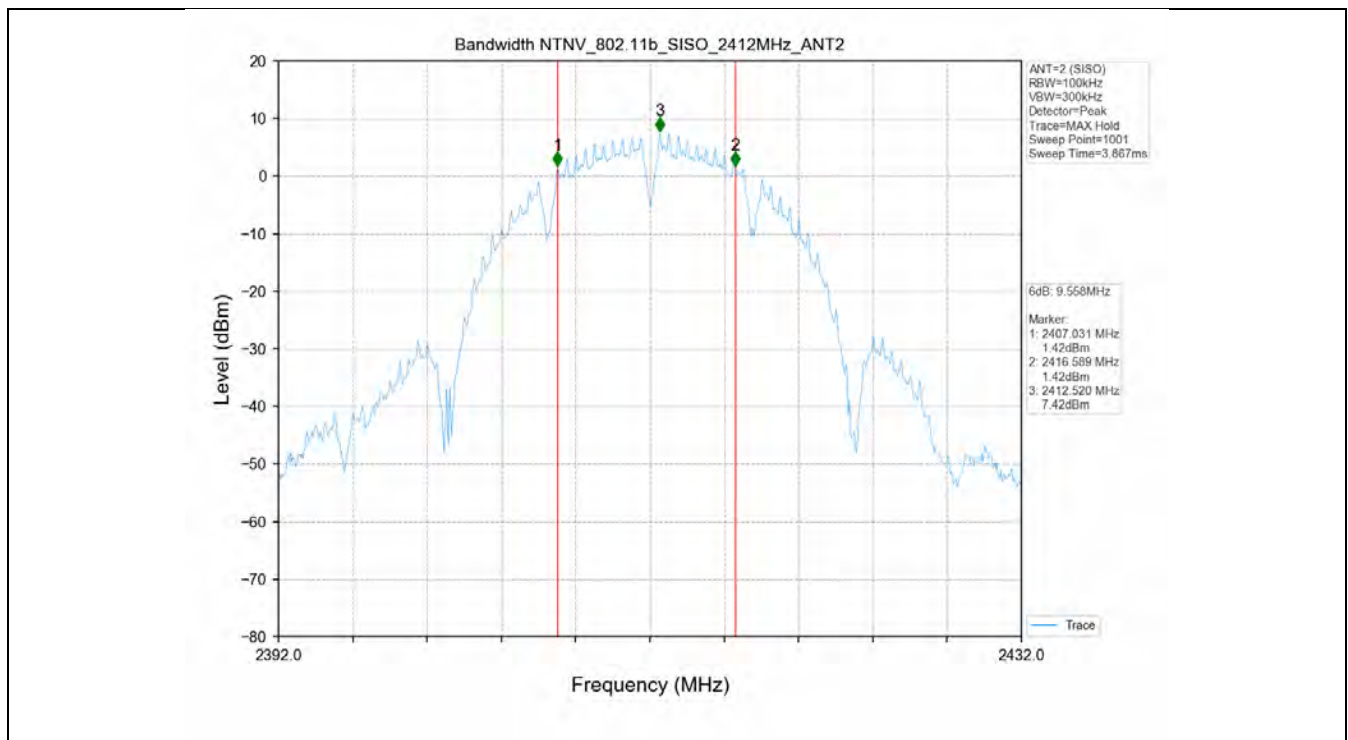
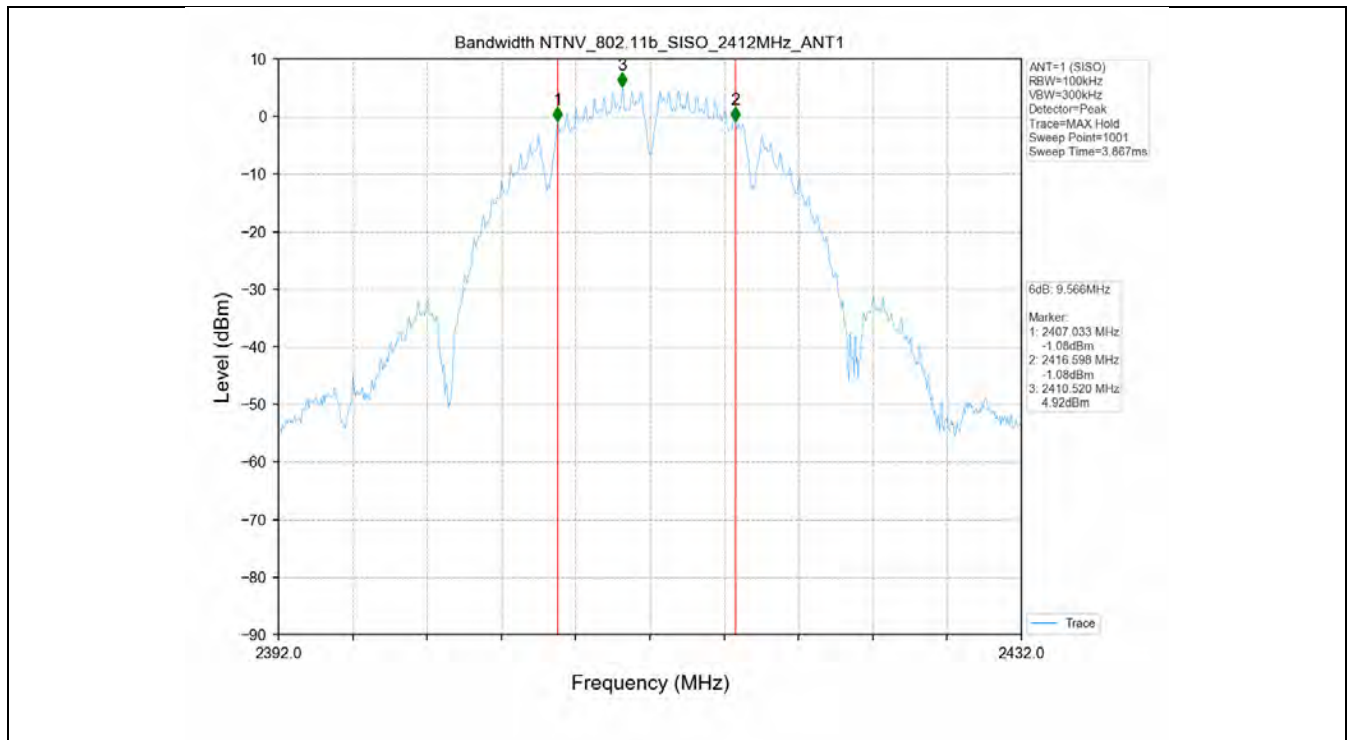
2. Bandwidth

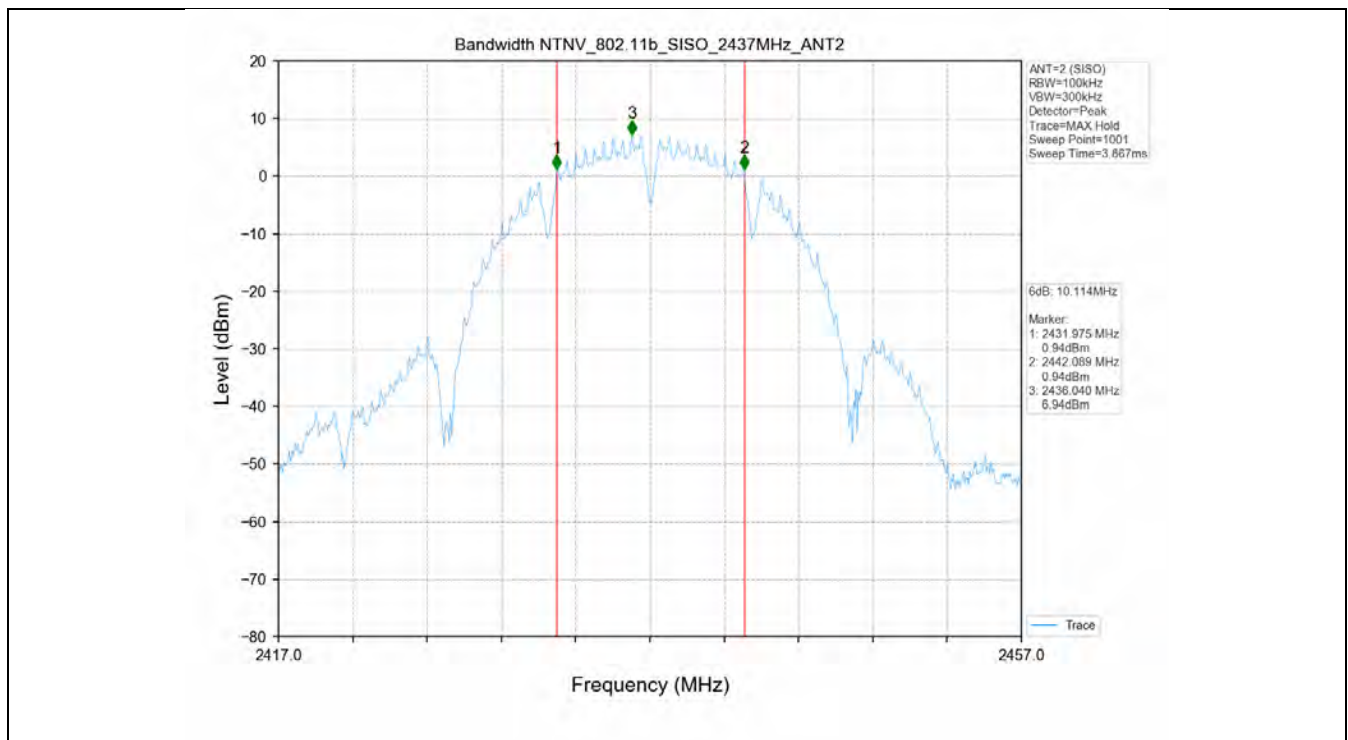
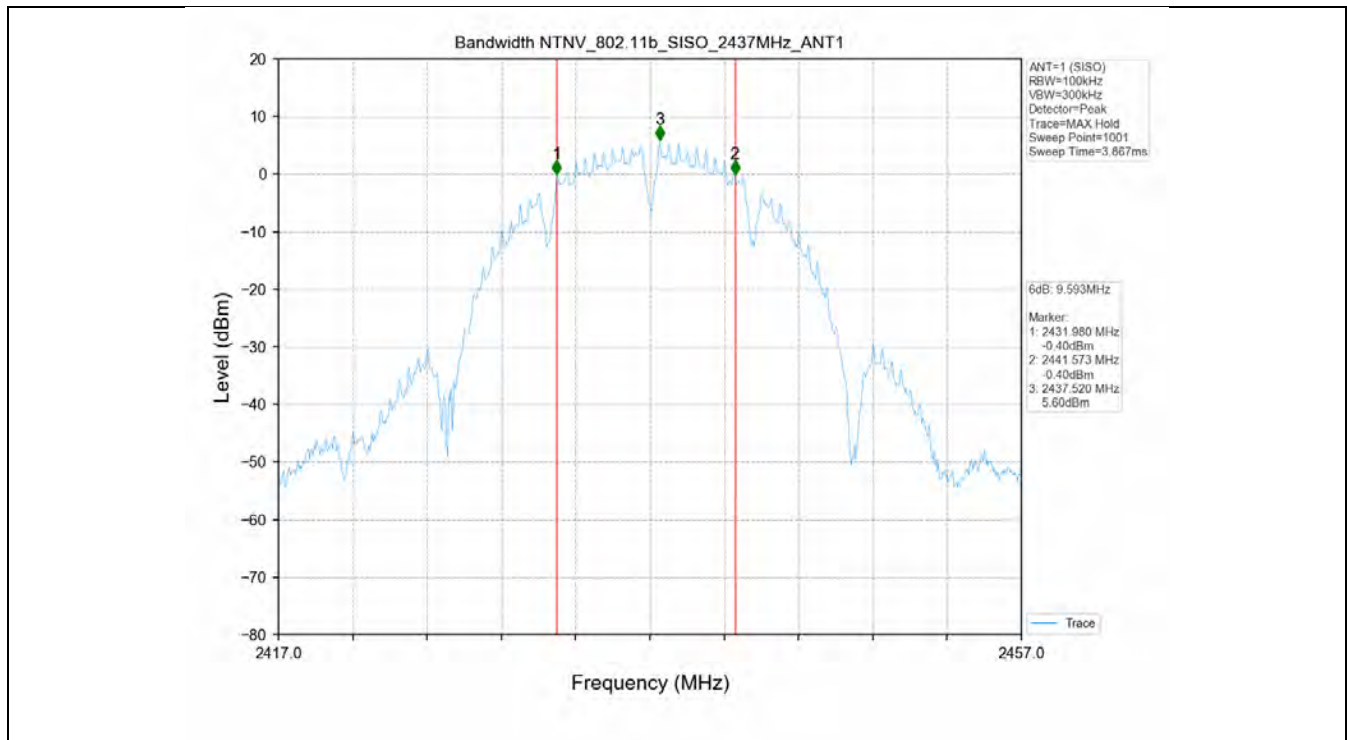
2.1 Test Result

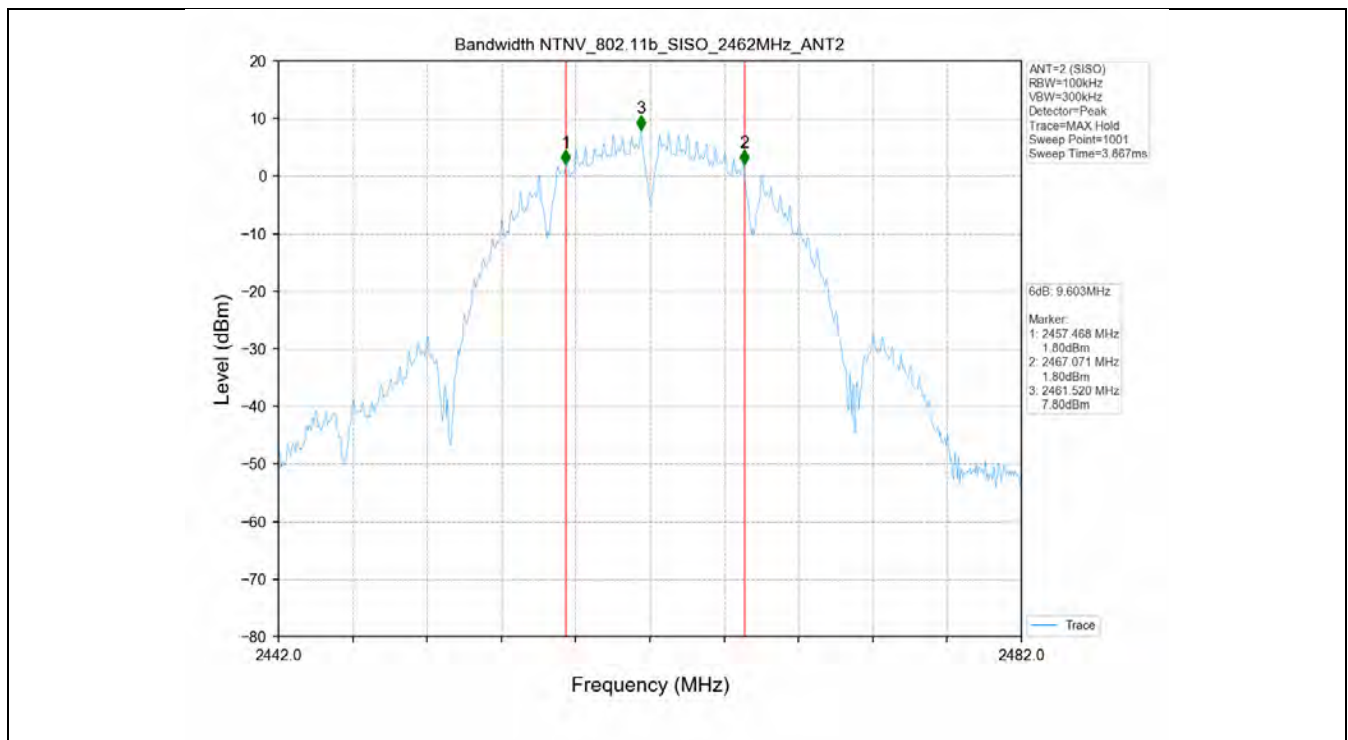
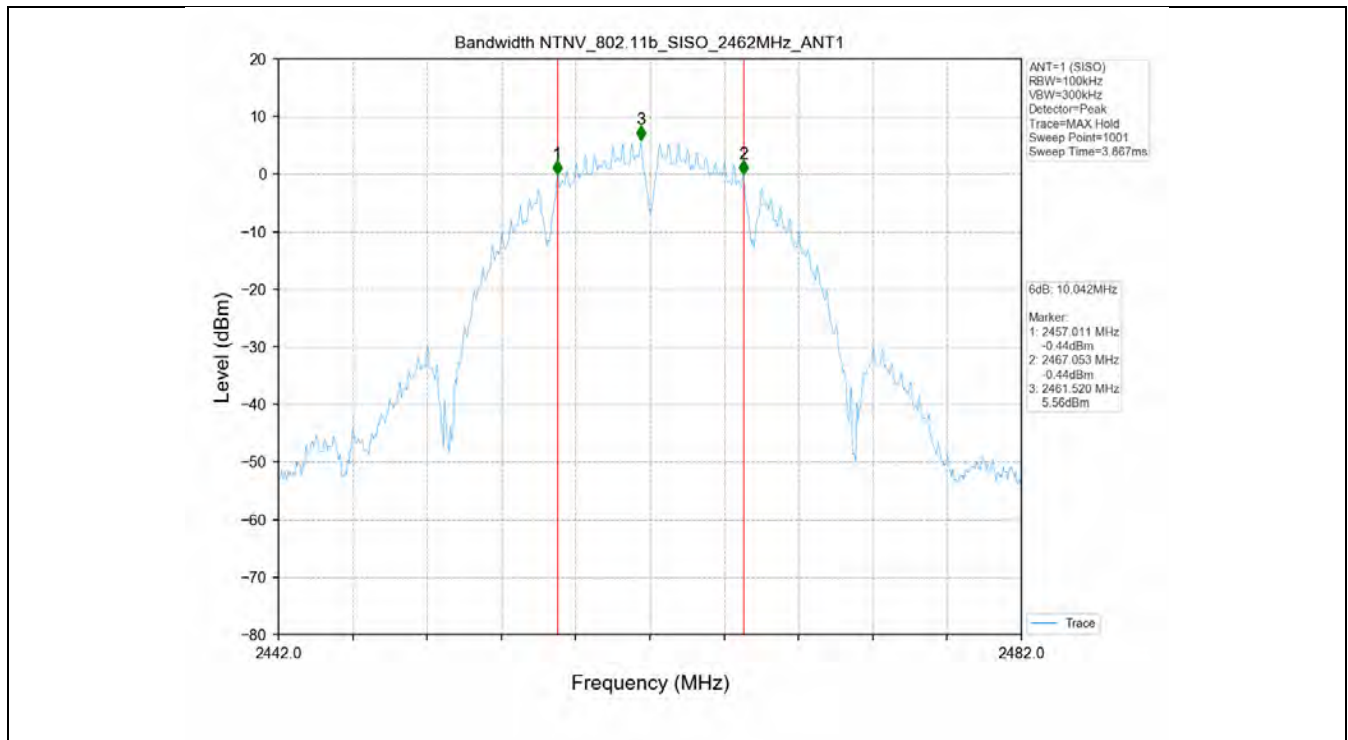
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth					Verdict
				Test Result (MHz)	Limits (MHz)	1.5*BW (MHz)	Span using in the PSD (MHz)	Span using in the Power (MHz)	
802.11b	2412	SISO	1	9.566	≥0.5	14.349	14.349	14.349	PASS
			2	9.558	≥0.5	14.337	14.337	14.337	PASS
	2437	SISO	1	9.593	≥0.5	14.390	14.390	14.390	PASS
			2	10.114	≥0.5	15.171	15.171	15.171	PASS
	2462	SISO	1	10.042	≥0.5	15.063	15.063	15.063	PASS
			2	9.603	≥0.5	14.405	14.405	14.405	PASS
802.11g	2412	SISO	1	16.417	≥0.5	24.626	24.626	24.626	PASS
			2	16.399	≥0.5	24.599	24.599	24.599	PASS
	2437	SISO	1	16.443	≥0.5	24.665	24.665	24.665	PASS
			2	16.417	≥0.5	24.626	24.626	24.626	PASS
	2462	SISO	1	16.435	≥0.5	24.653	24.653	24.653	PASS
			2	16.423	≥0.5	24.635	24.635	24.635	PASS
802.11n(HT20)	2412	MIMO	1	17.619	≥0.5	26.429	26.429	26.429	PASS
			2	17.617	≥0.5	26.426	26.426	26.426	PASS
	2437	MIMO	1	17.608	≥0.5	26.412	26.412	26.412	PASS
			2	17.664	≥0.5	26.496	26.496	26.496	PASS
	2462	MIMO	1	17.611	≥0.5	26.417	26.417	26.417	PASS
			2	17.612	≥0.5	26.418	26.418	26.418	PASS

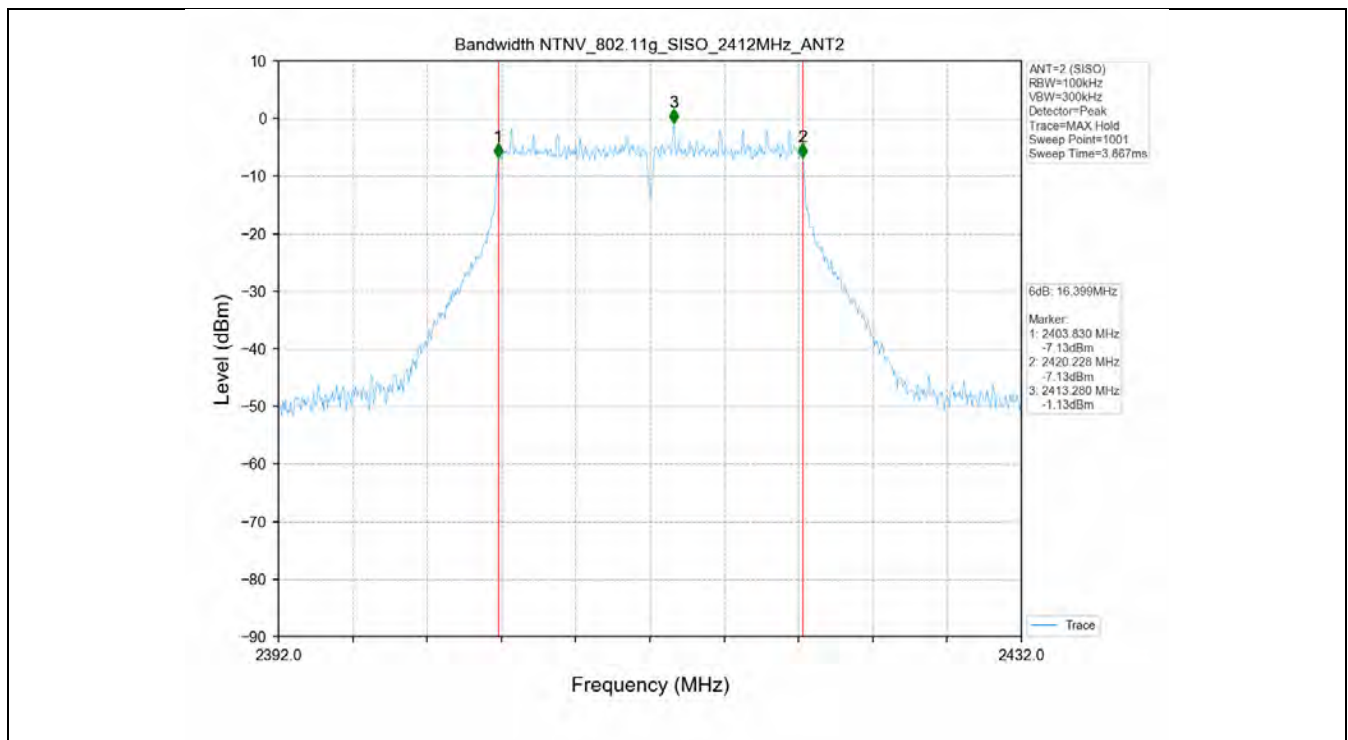
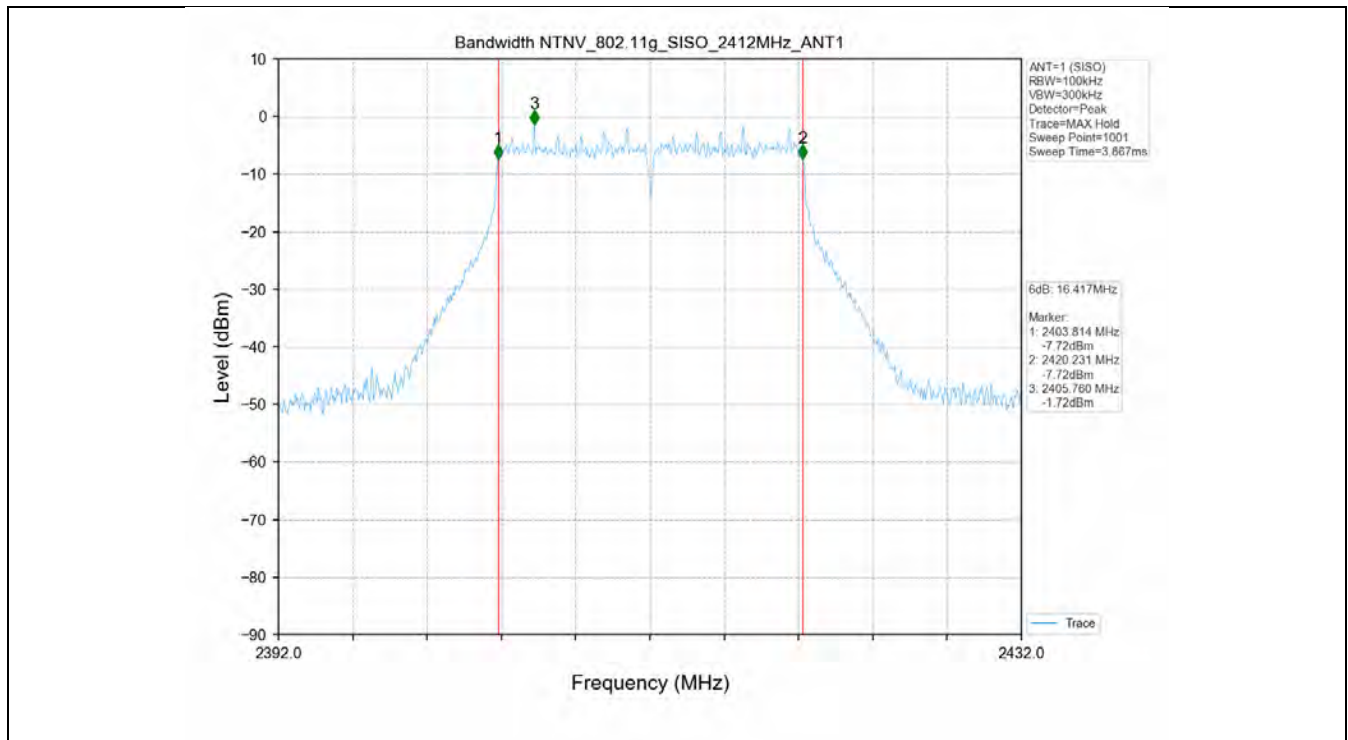
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.082	Only for Report Use
			2	15.169	Only for Report Use
	2437	SISO	1	15.083	Only for Report Use
			2	15.165	Only for Report Use
	2462	SISO	1	15.091	Only for Report Use
			2	15.167	Only for Report Use
802.11g	2412	SISO	1	17.008	Only for Report Use
			2	16.959	Only for Report Use
	2437	SISO	1	16.949	Only for Report Use
			2	16.988	Only for Report Use
	2462	SISO	1	16.934	Only for Report Use
			2	16.935	Only for Report Use
802.11n(HT20)	2412	MIMO	1	18.086	Only for Report Use
			2	18.077	Only for Report Use
	2437	MIMO	1	18.141	Only for Report Use
			2	18.156	Only for Report Use
	2462	MIMO	1	17.989	Only for Report Use
			2	17.956	Only for Report Use

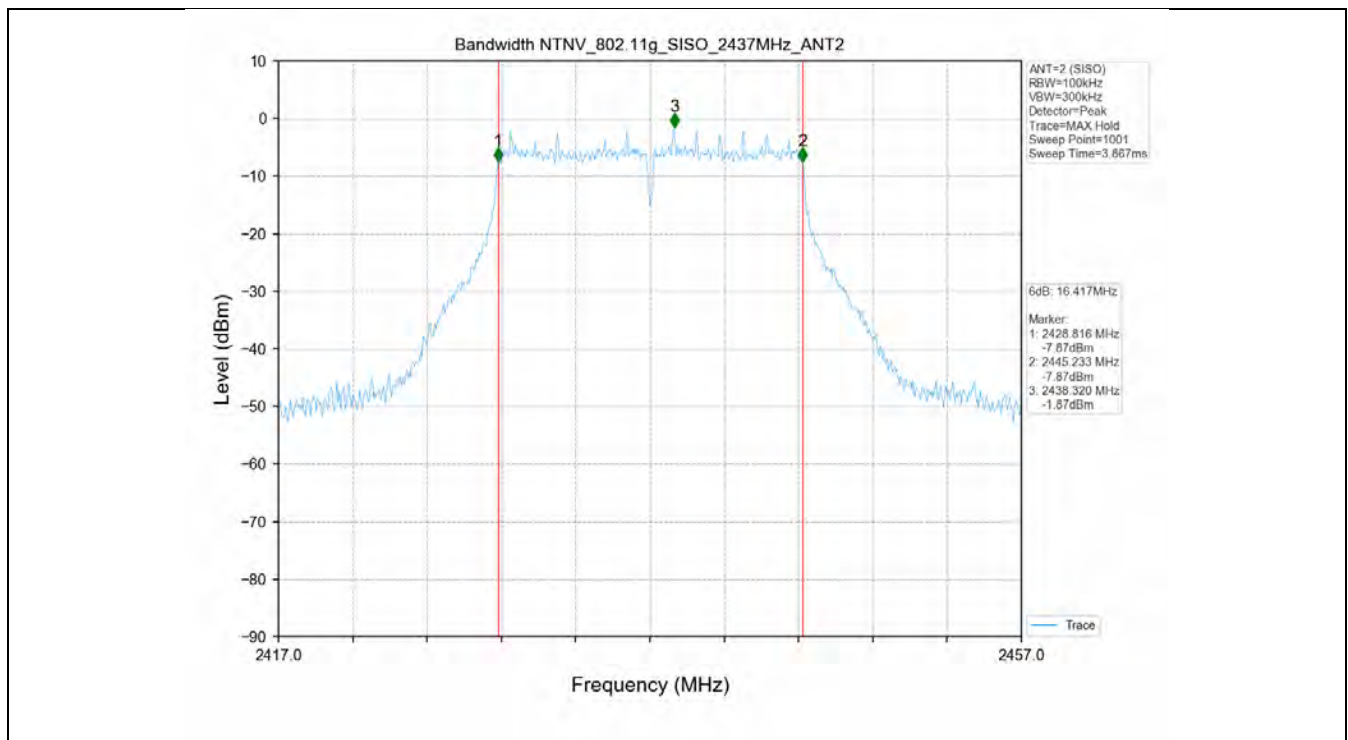
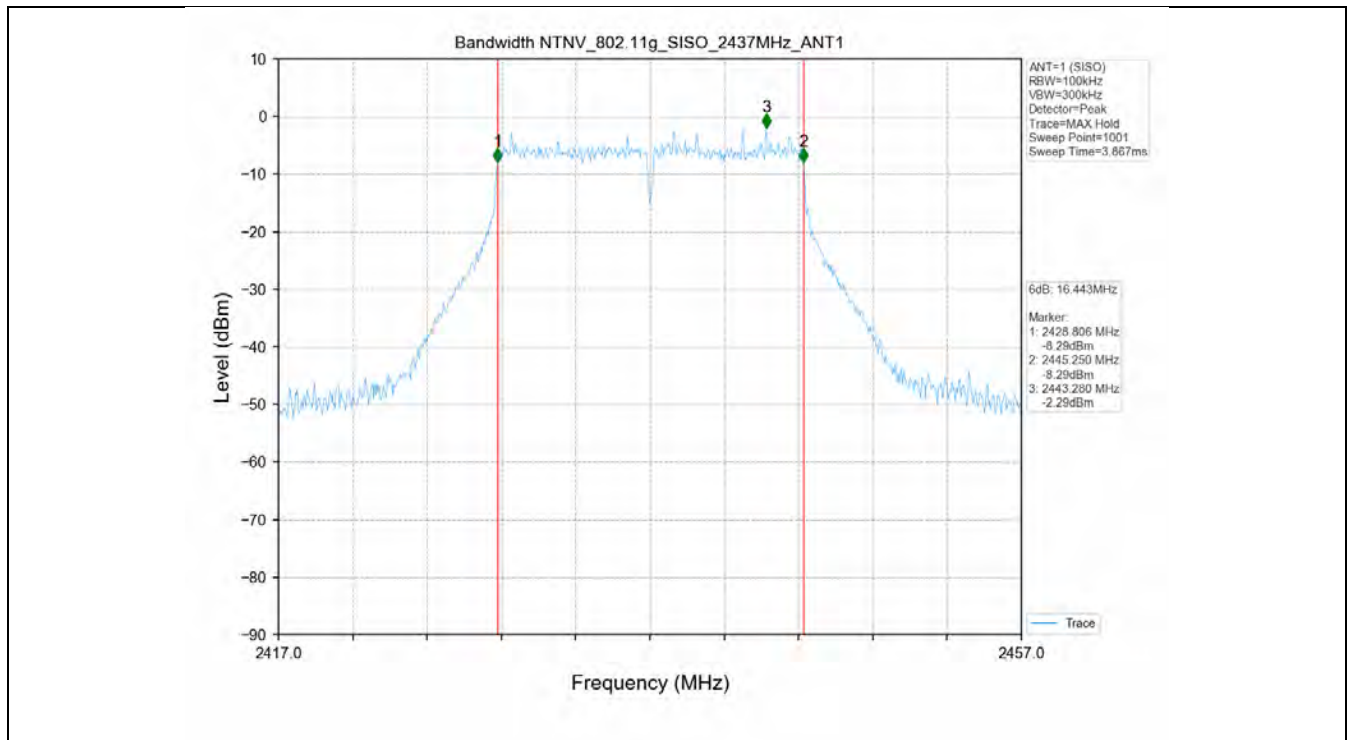
2.2 Test Graph - 6dB Bandwidth

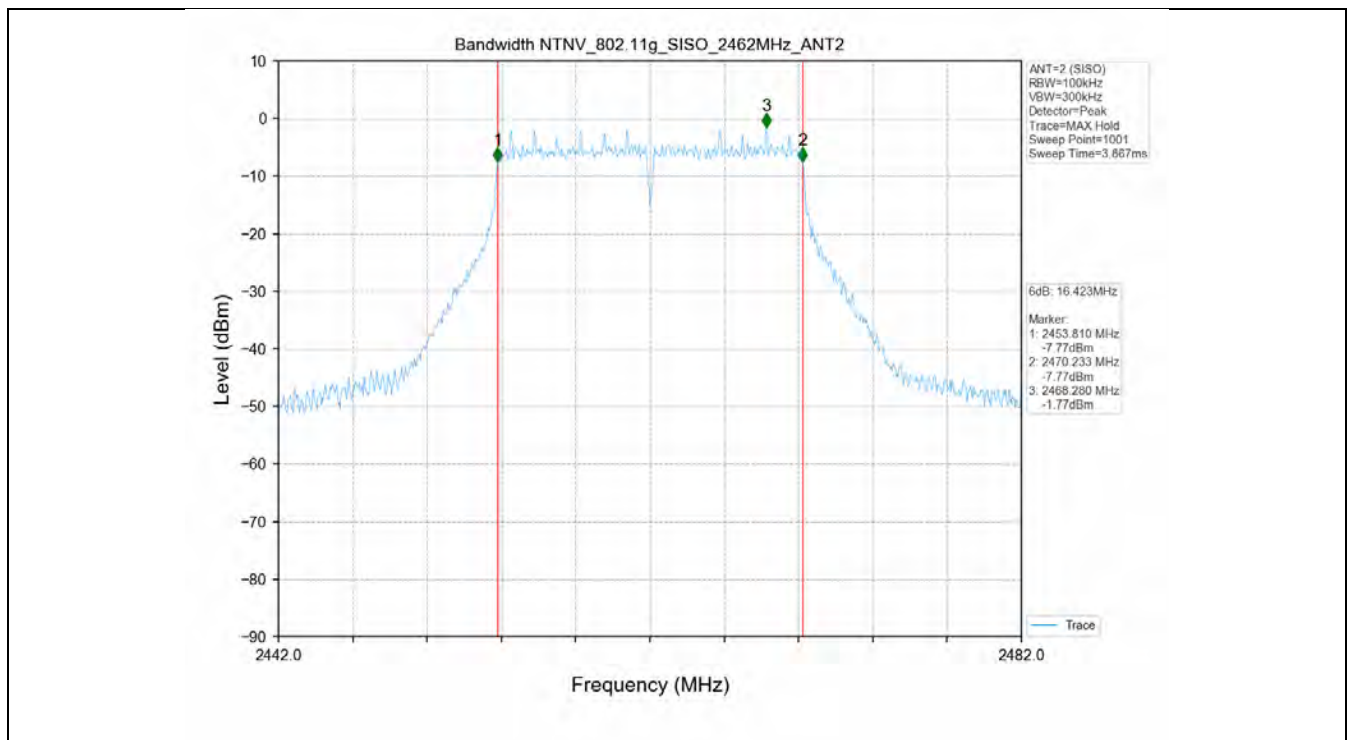
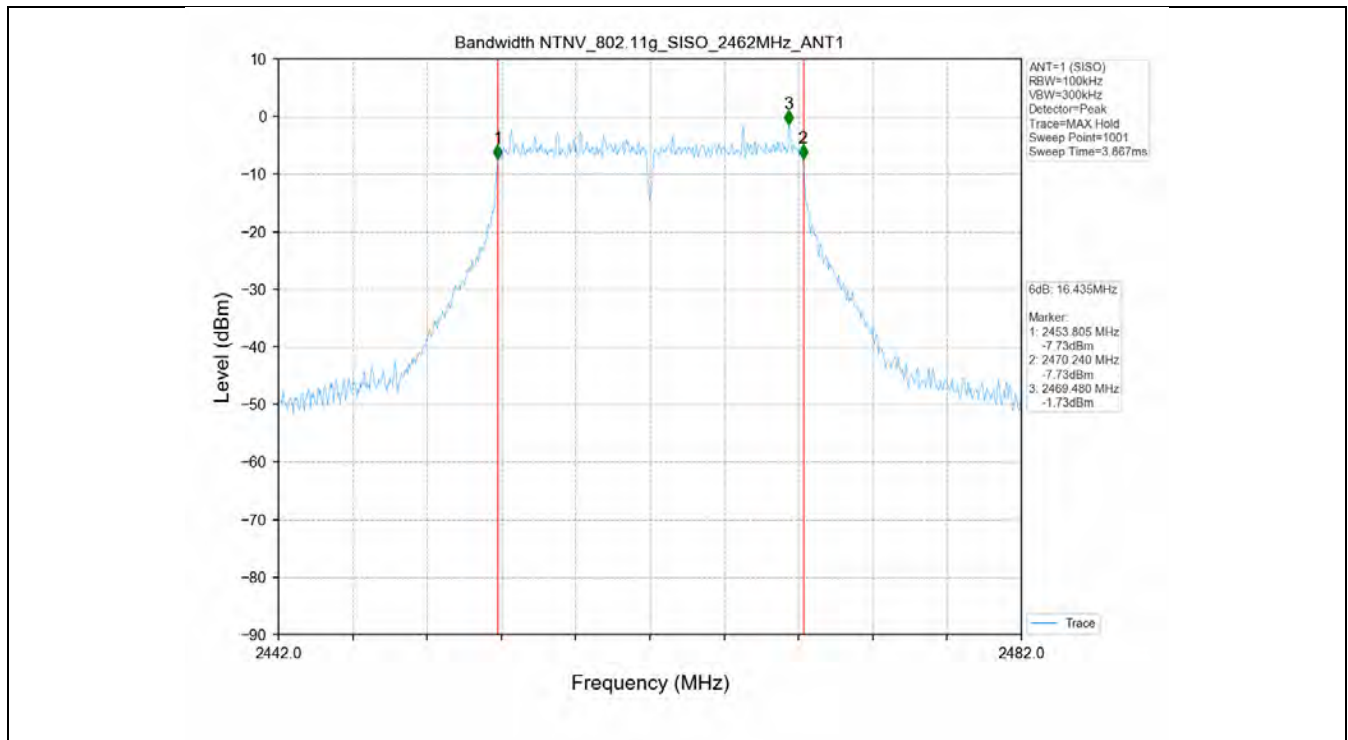


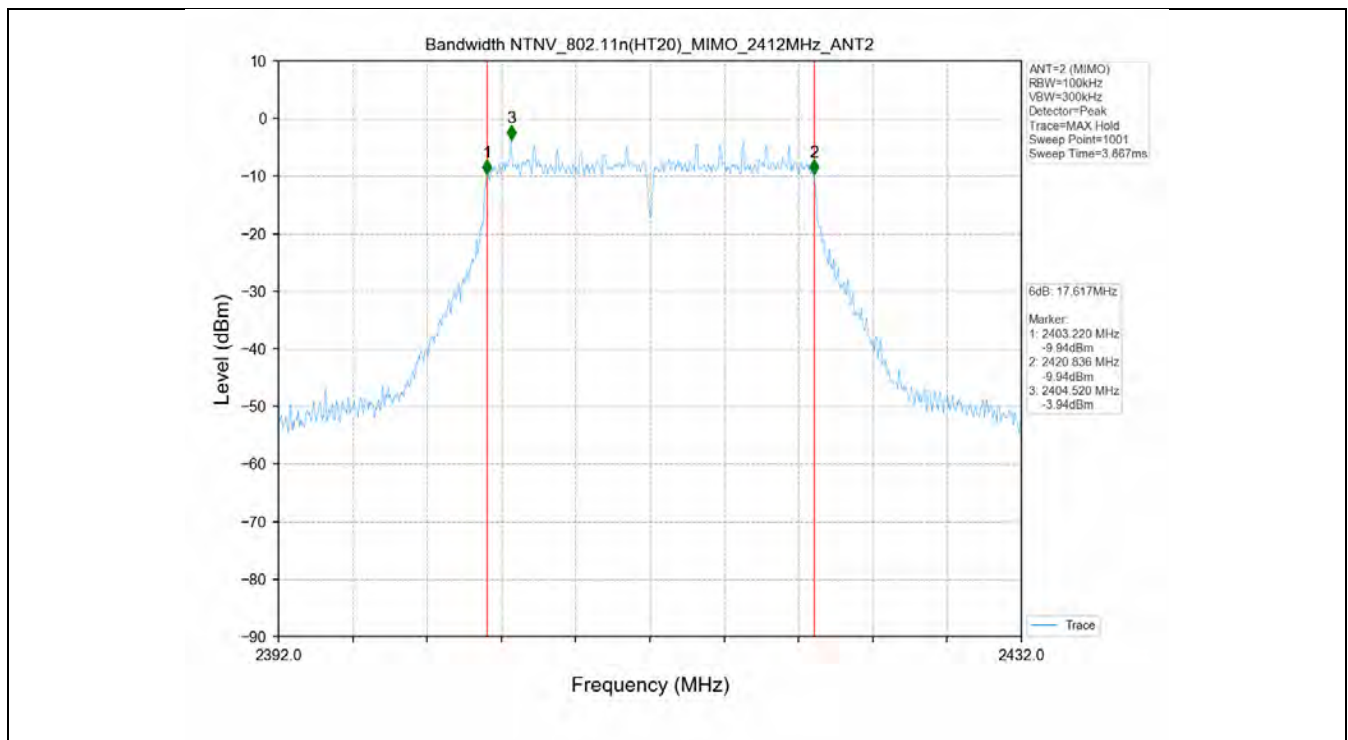
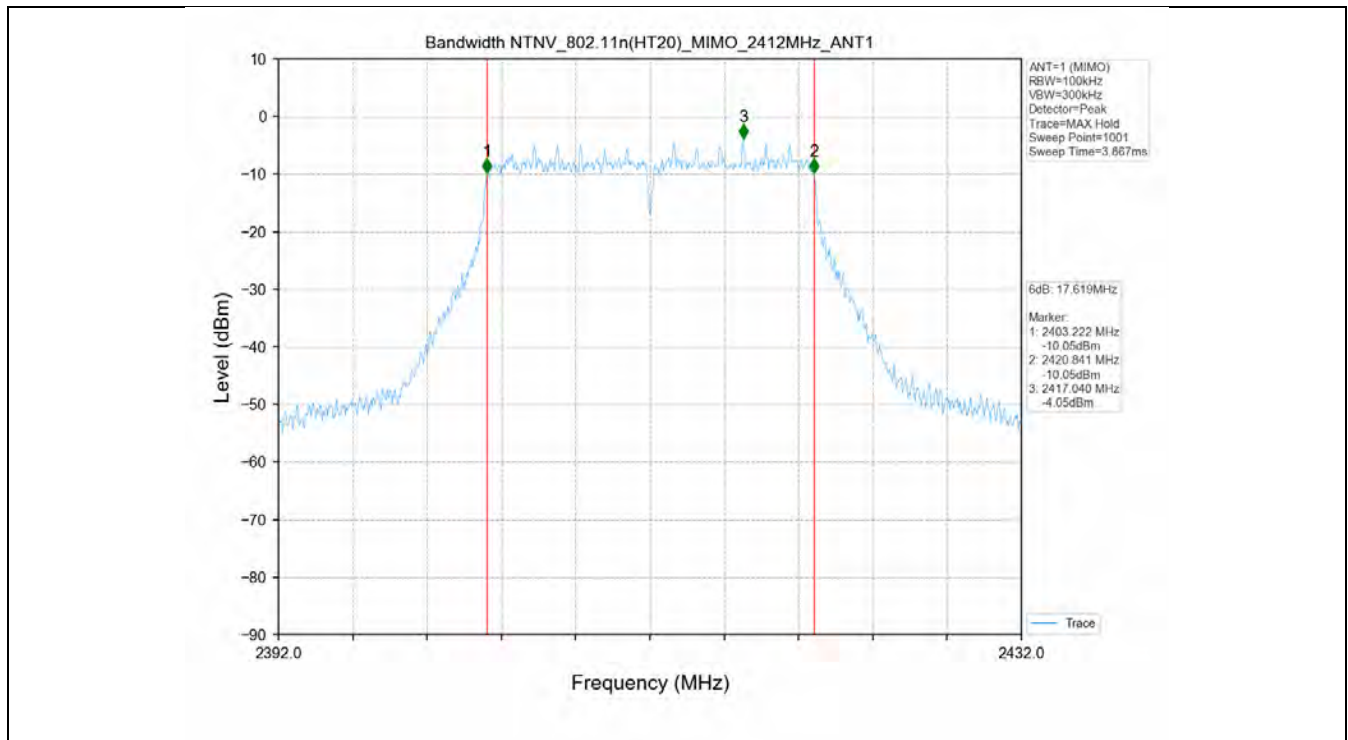


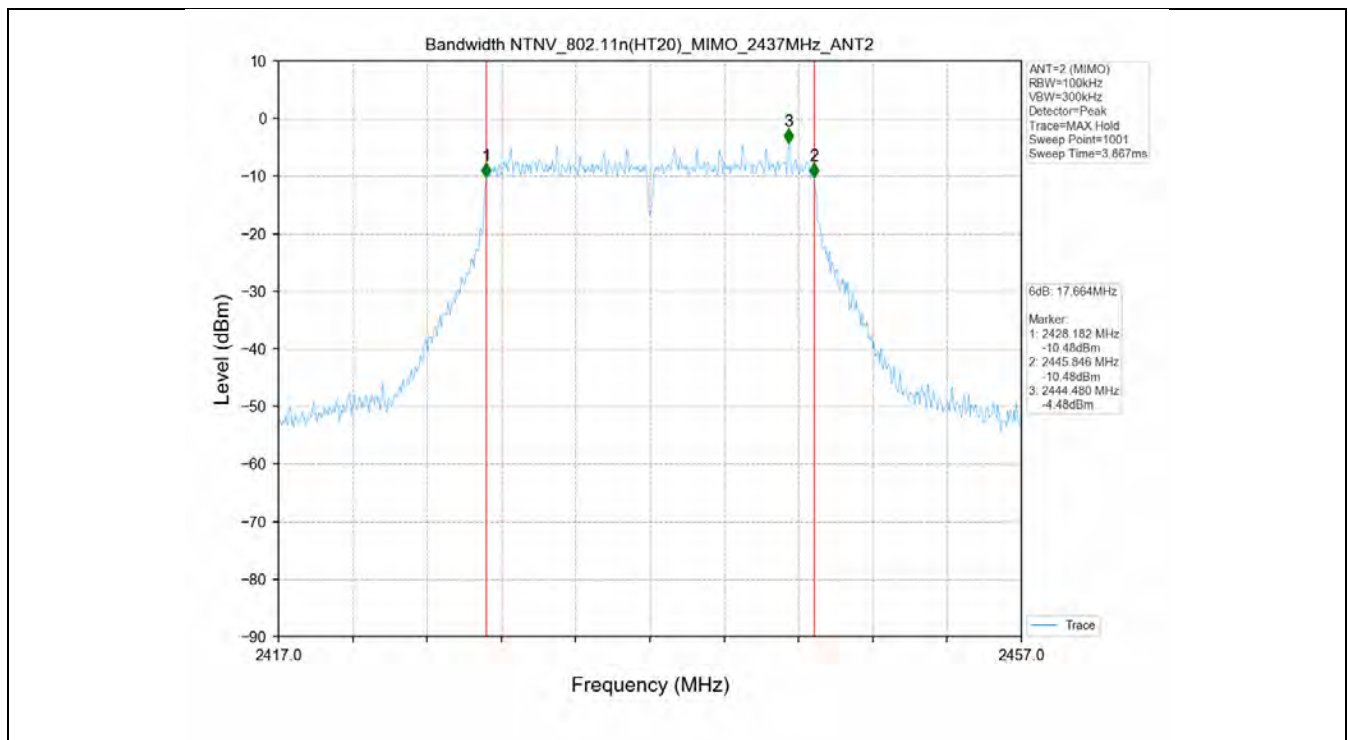
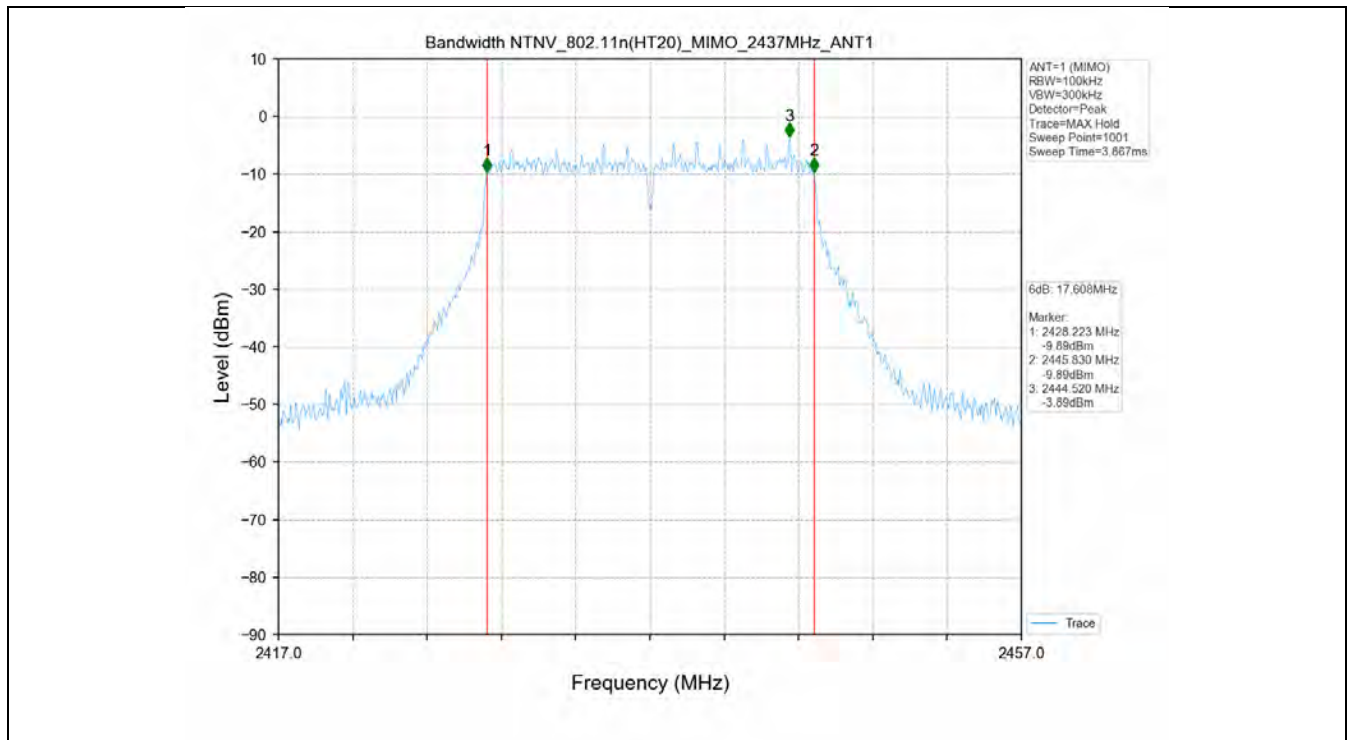


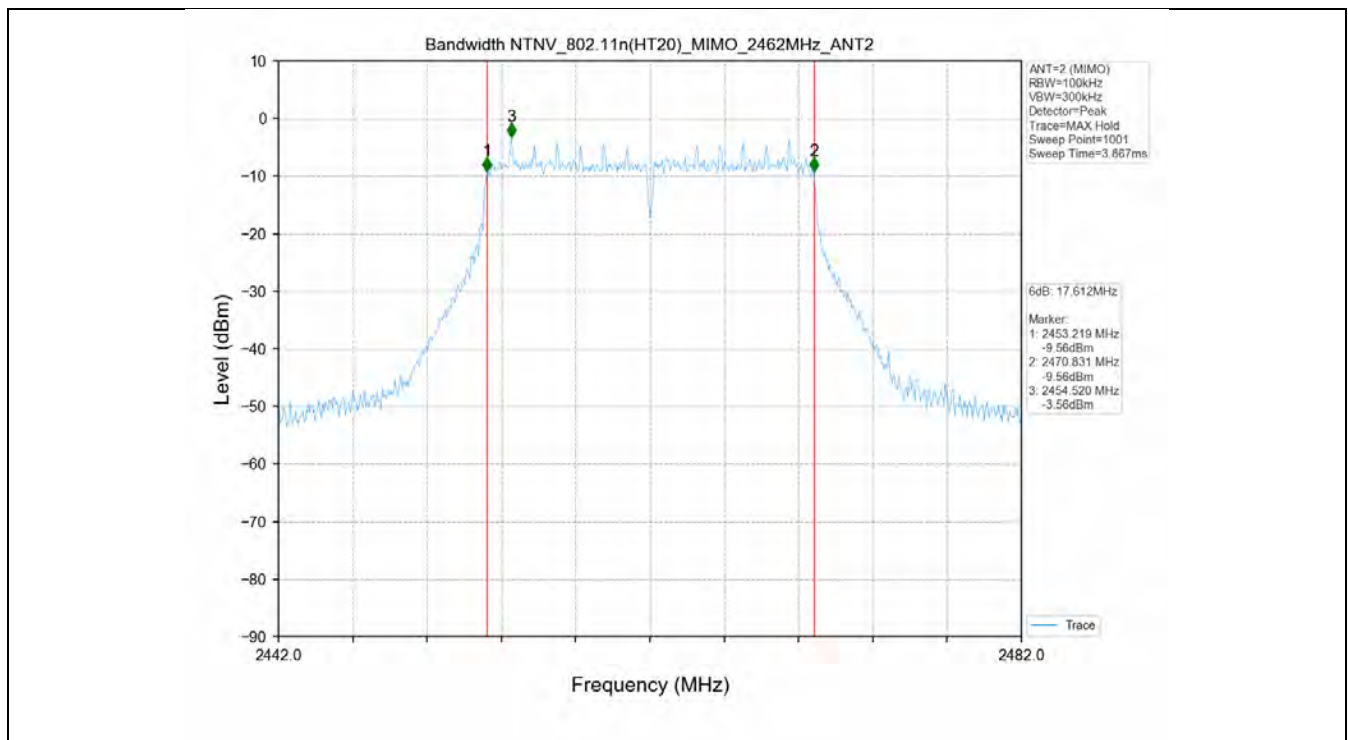
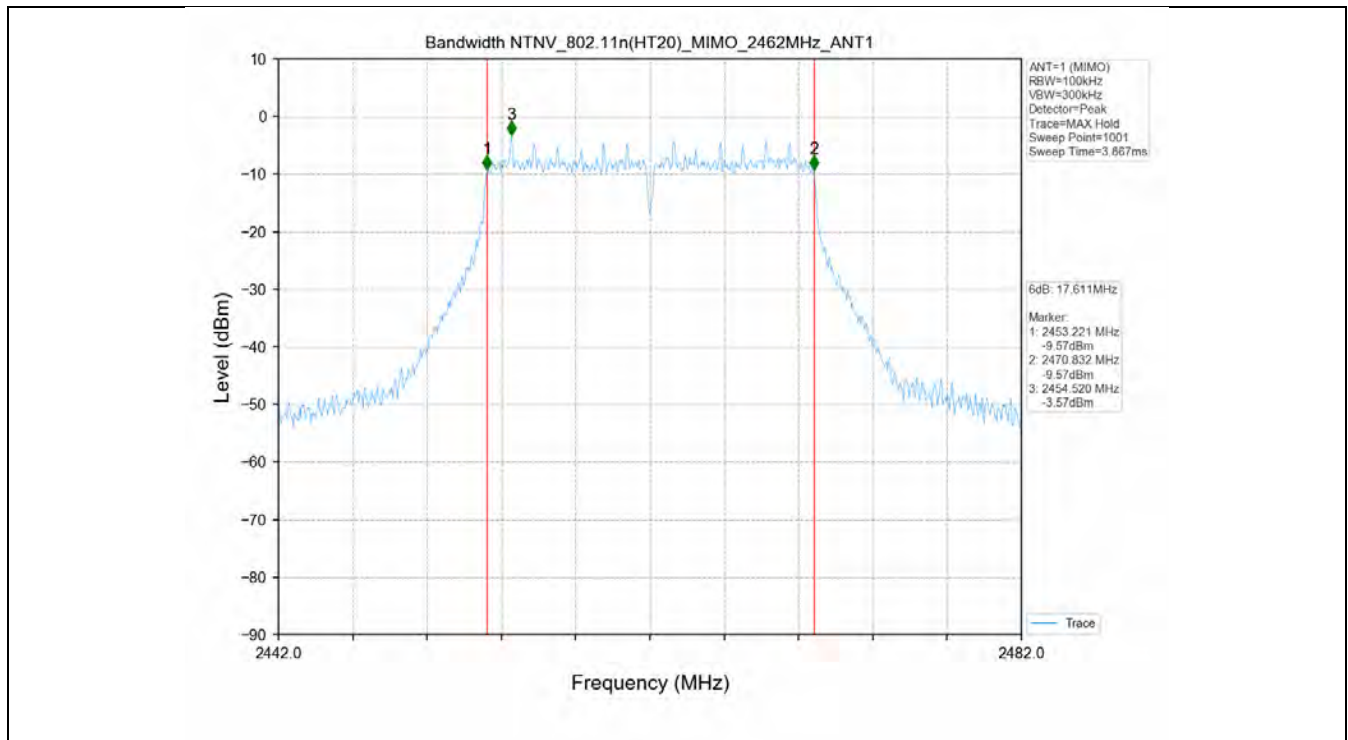






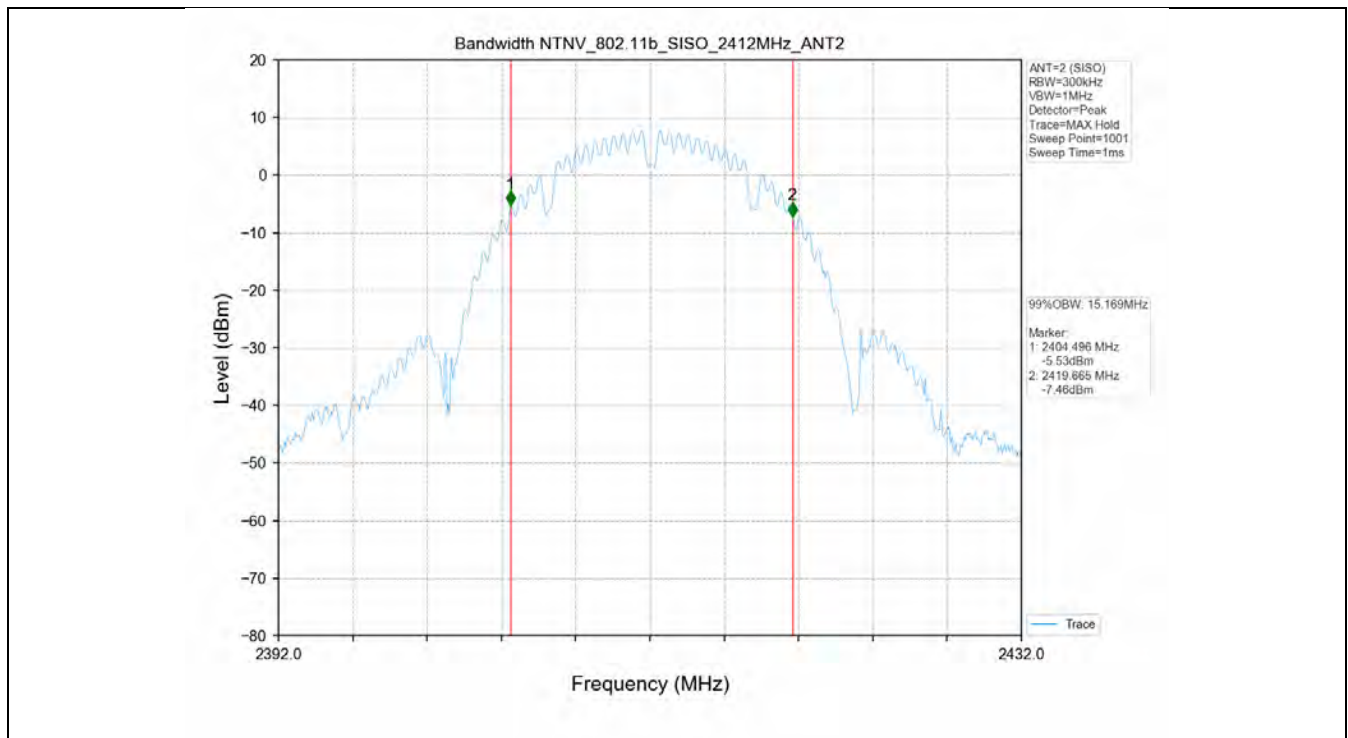
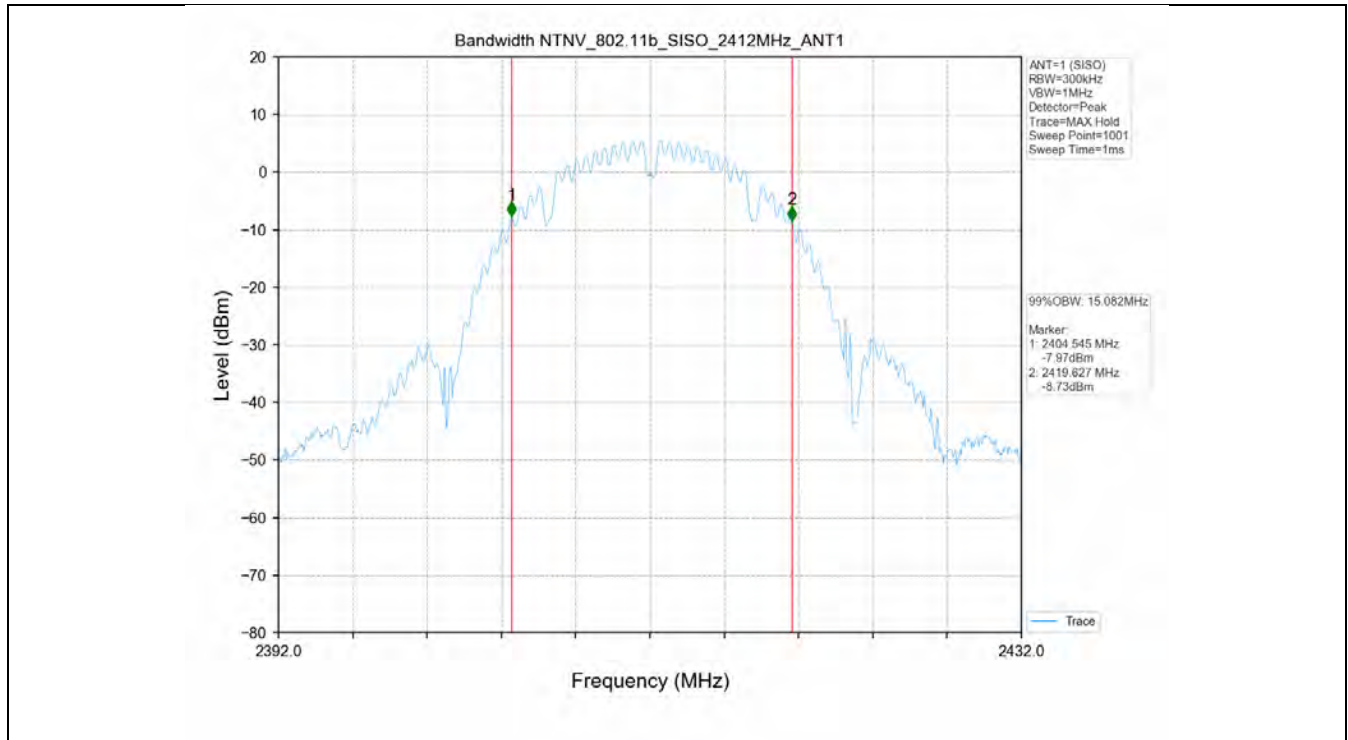


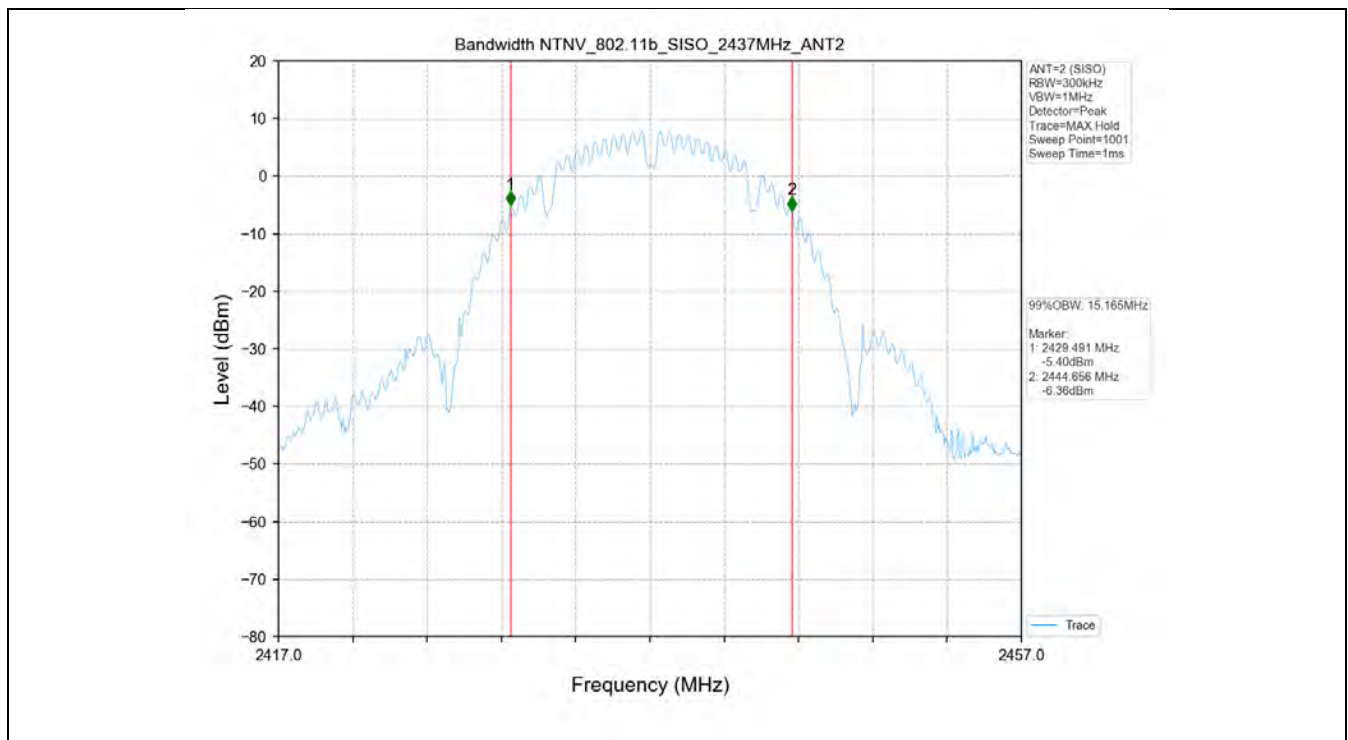
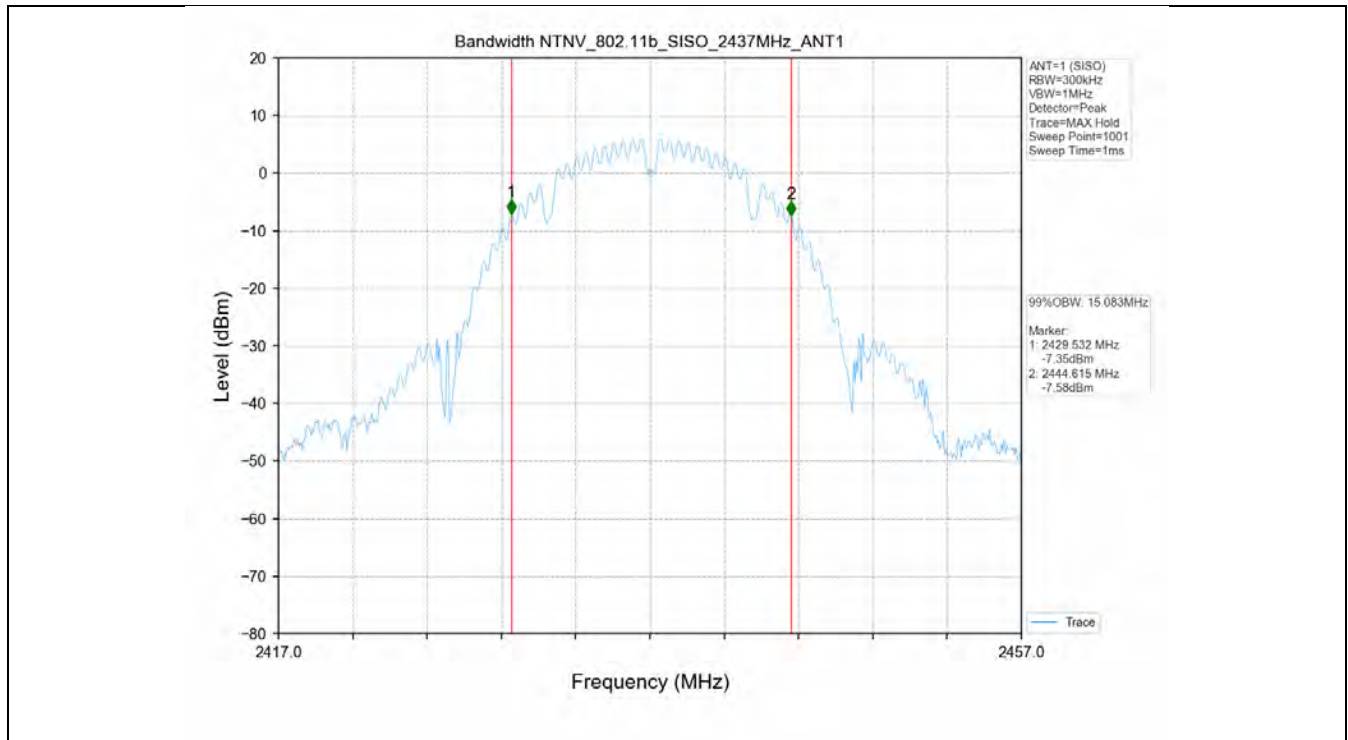


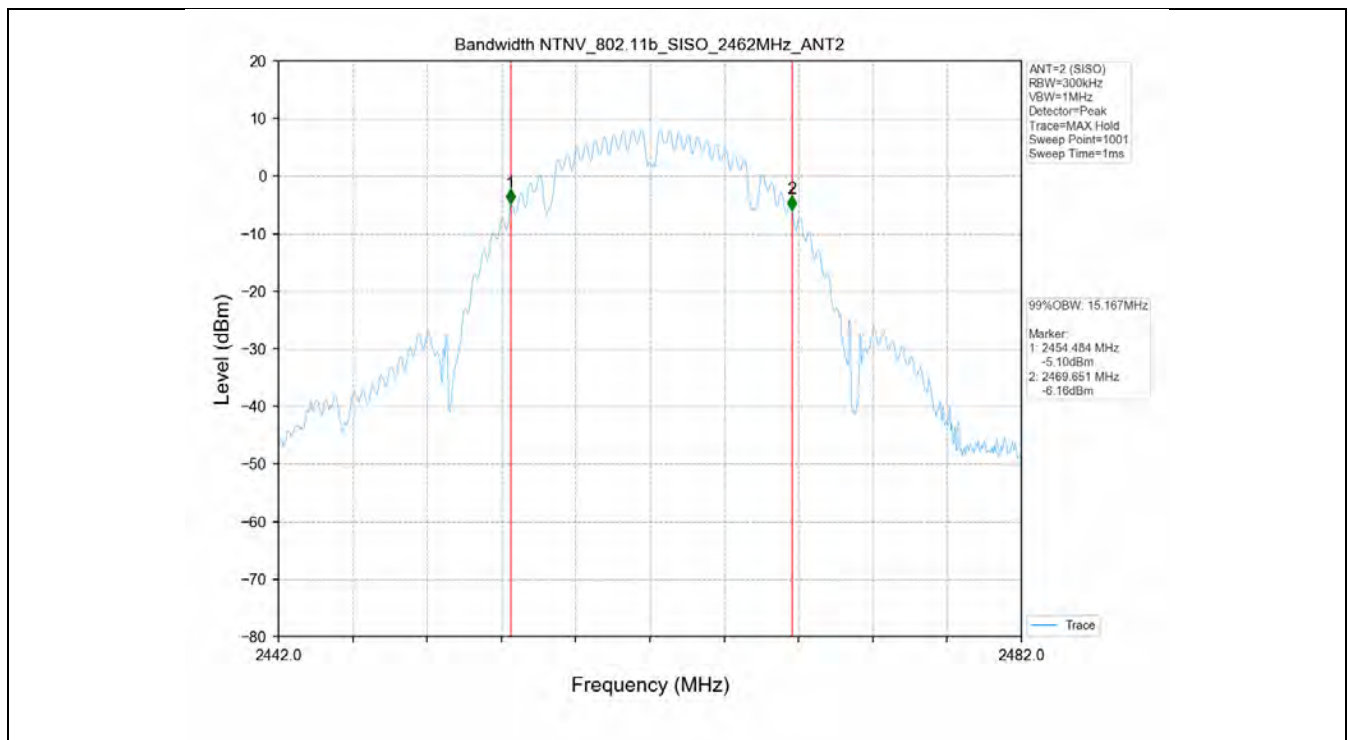
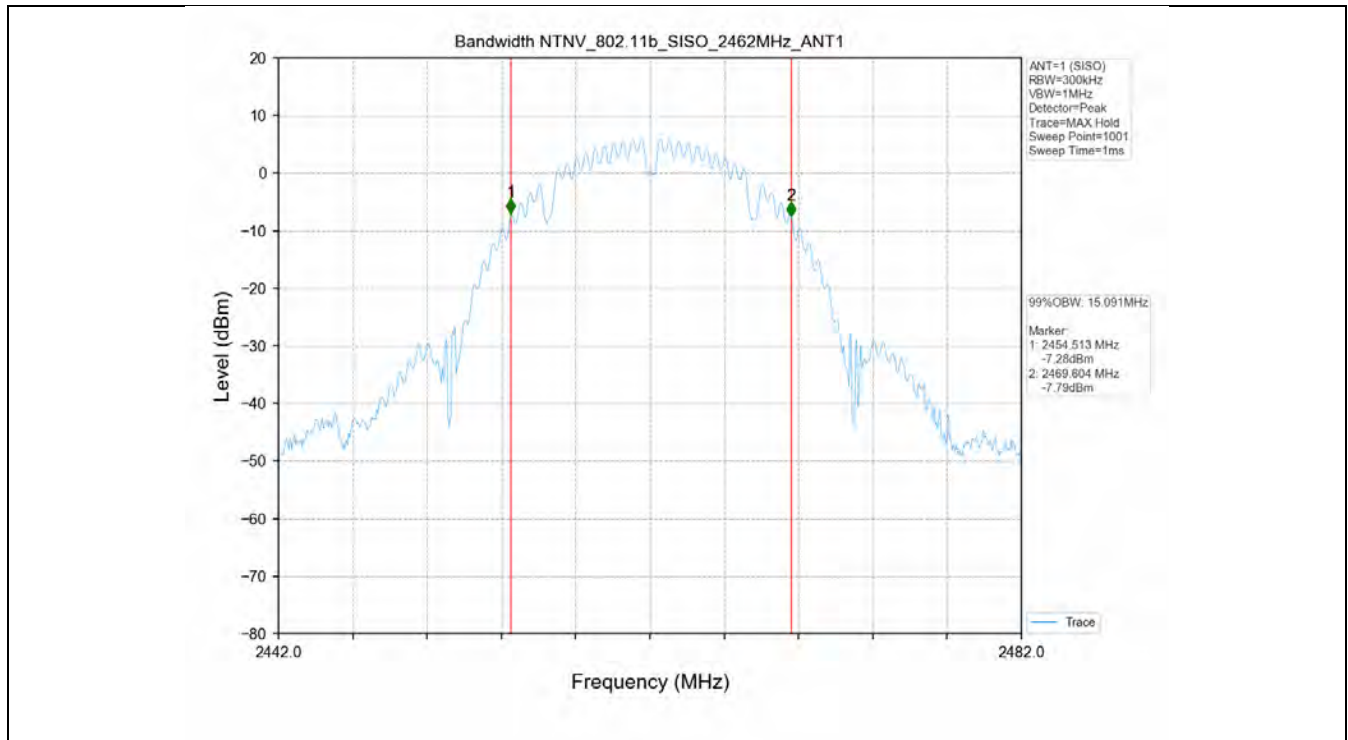


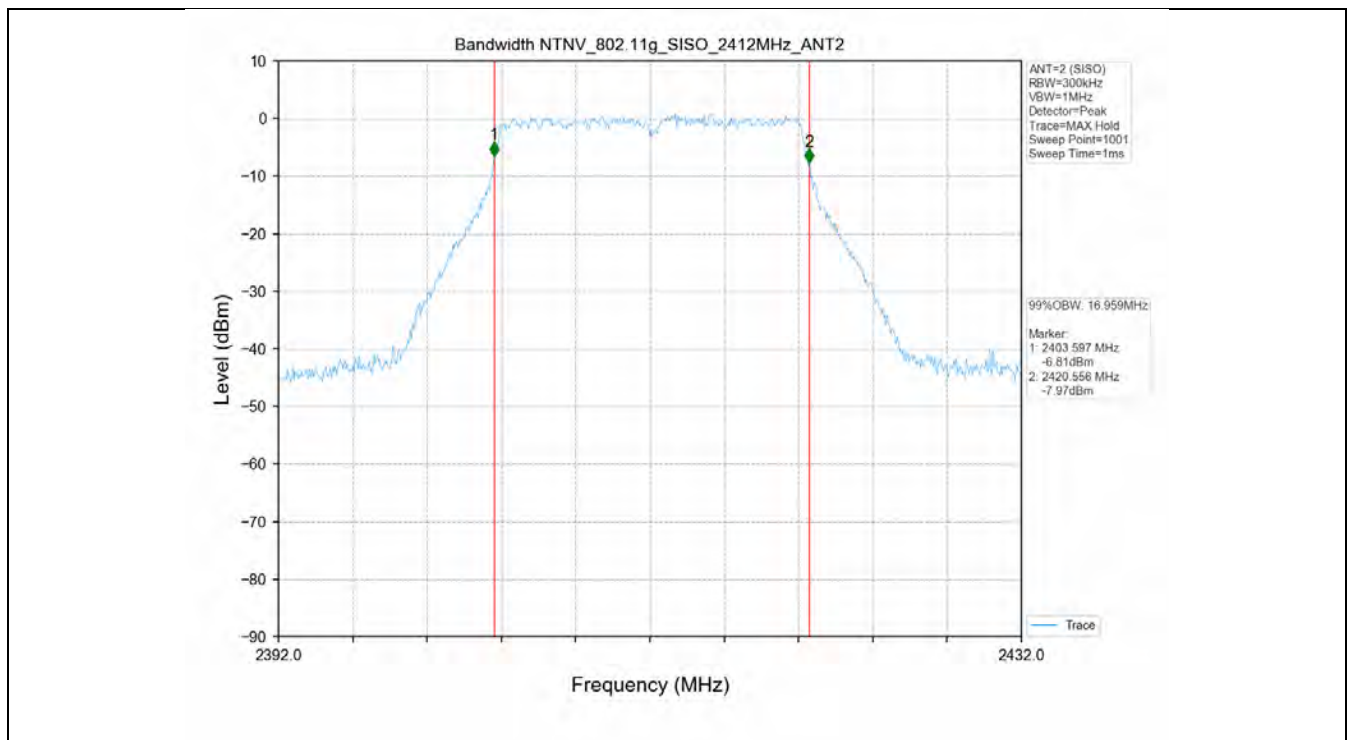
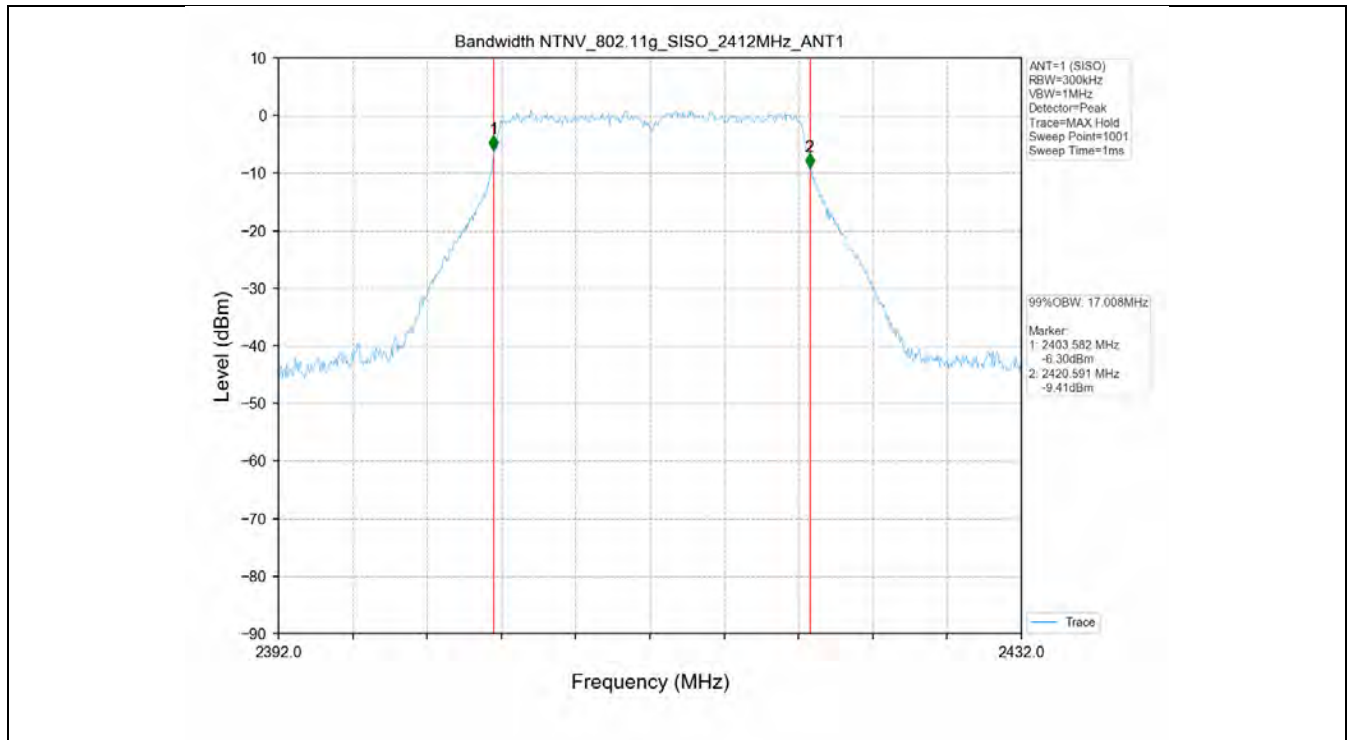


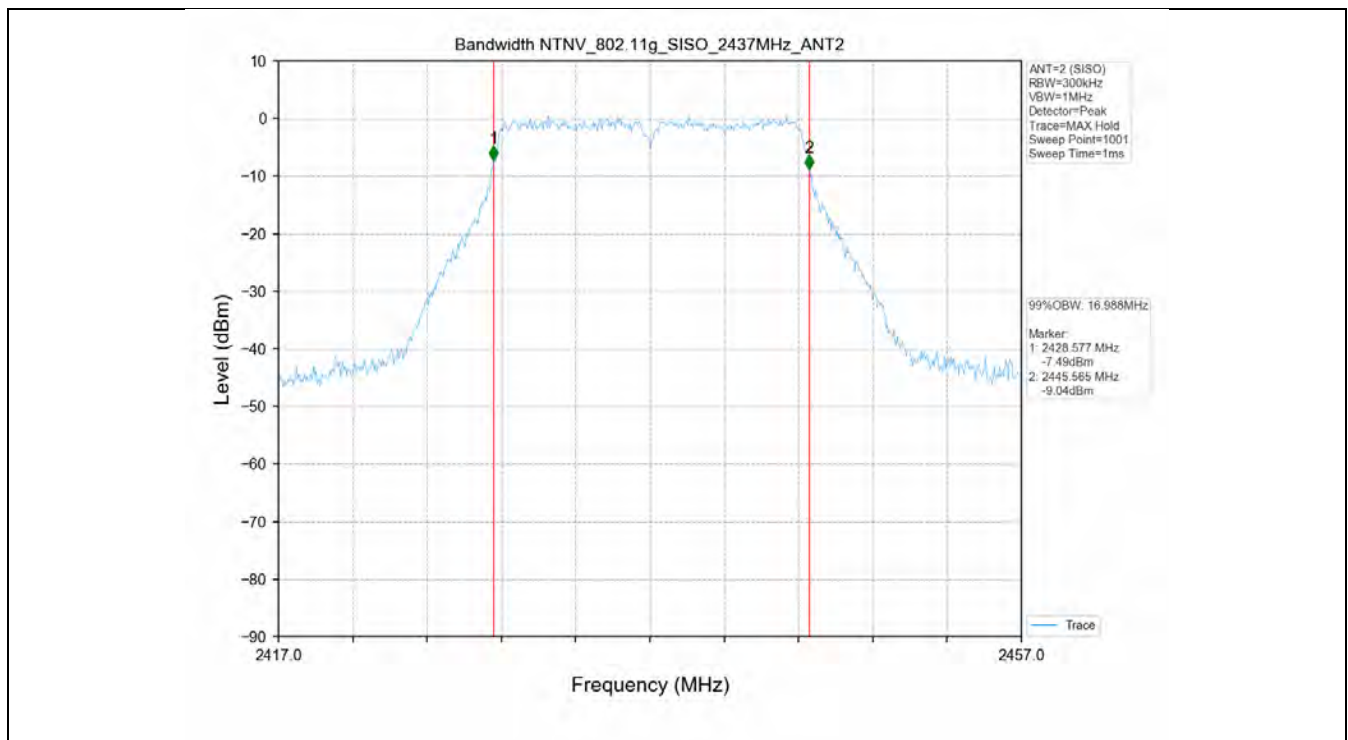
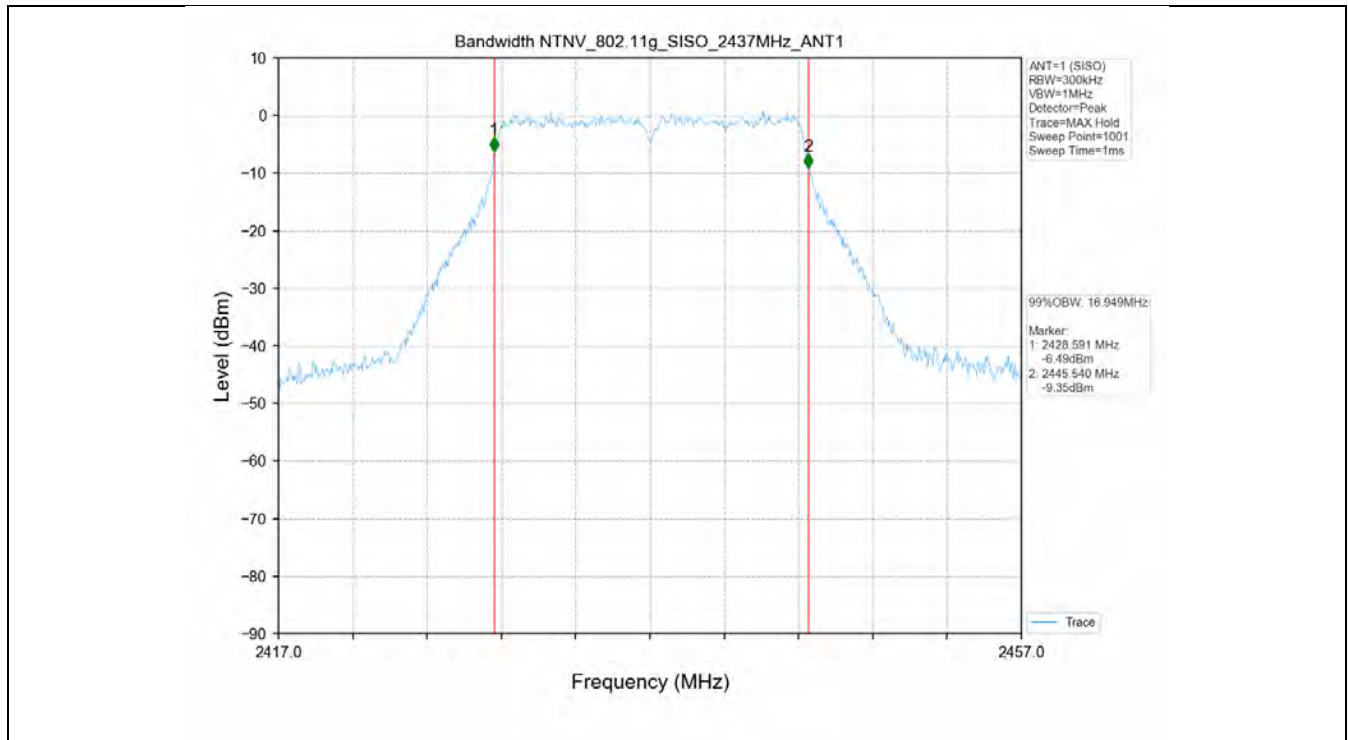
2.3 Test Graph - 99% Occupied Bandwidth

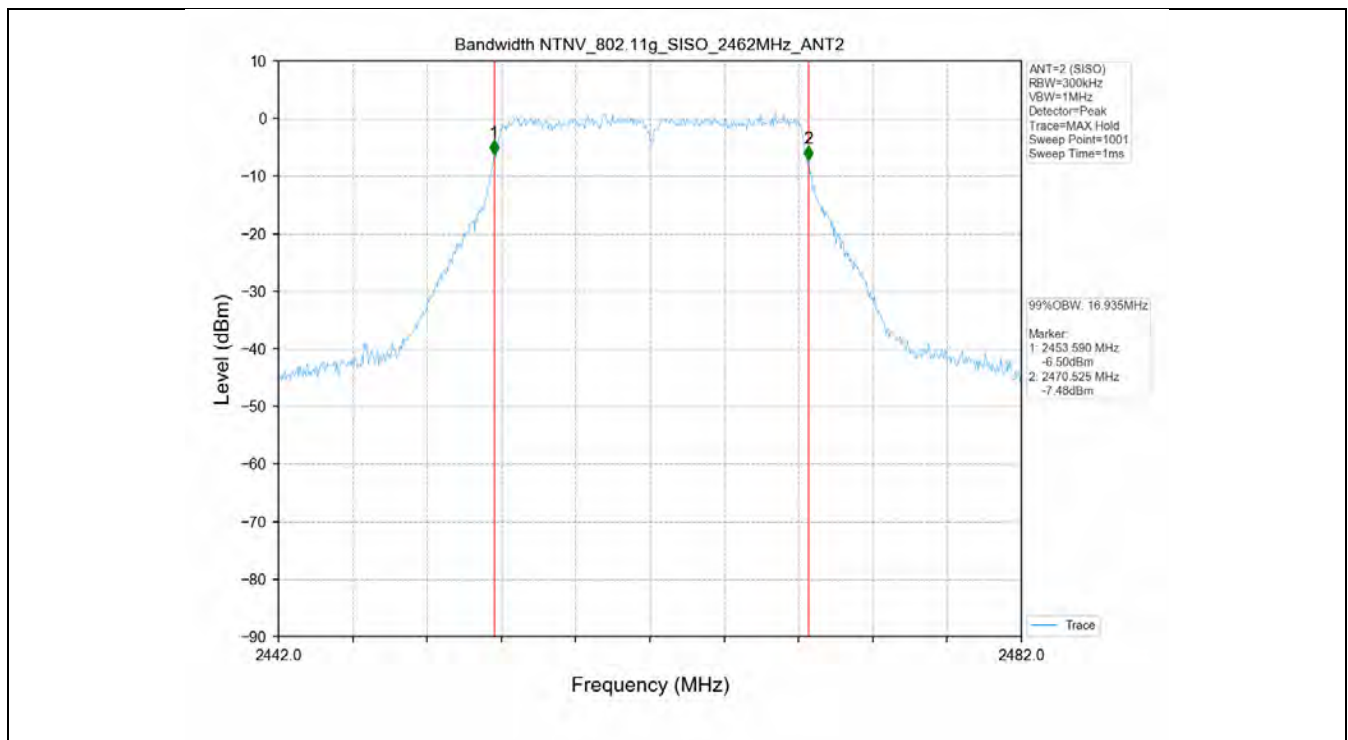
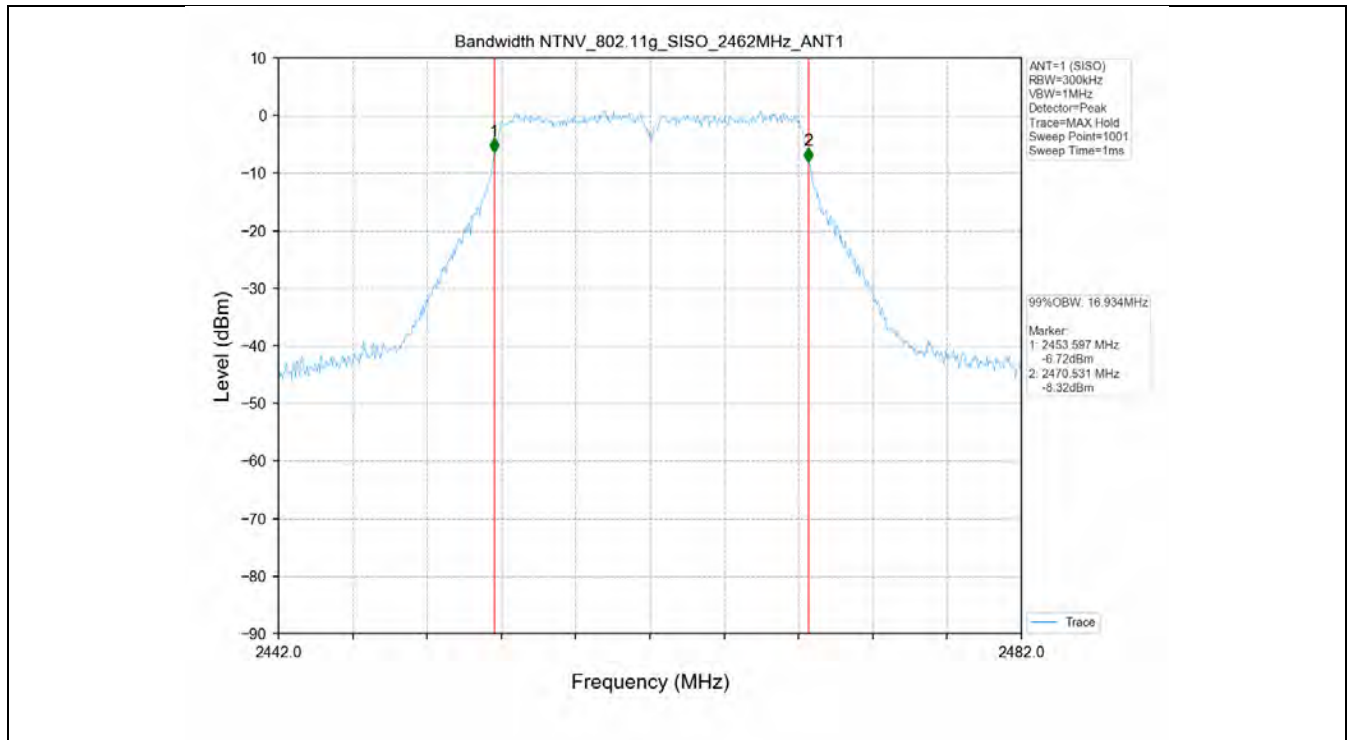


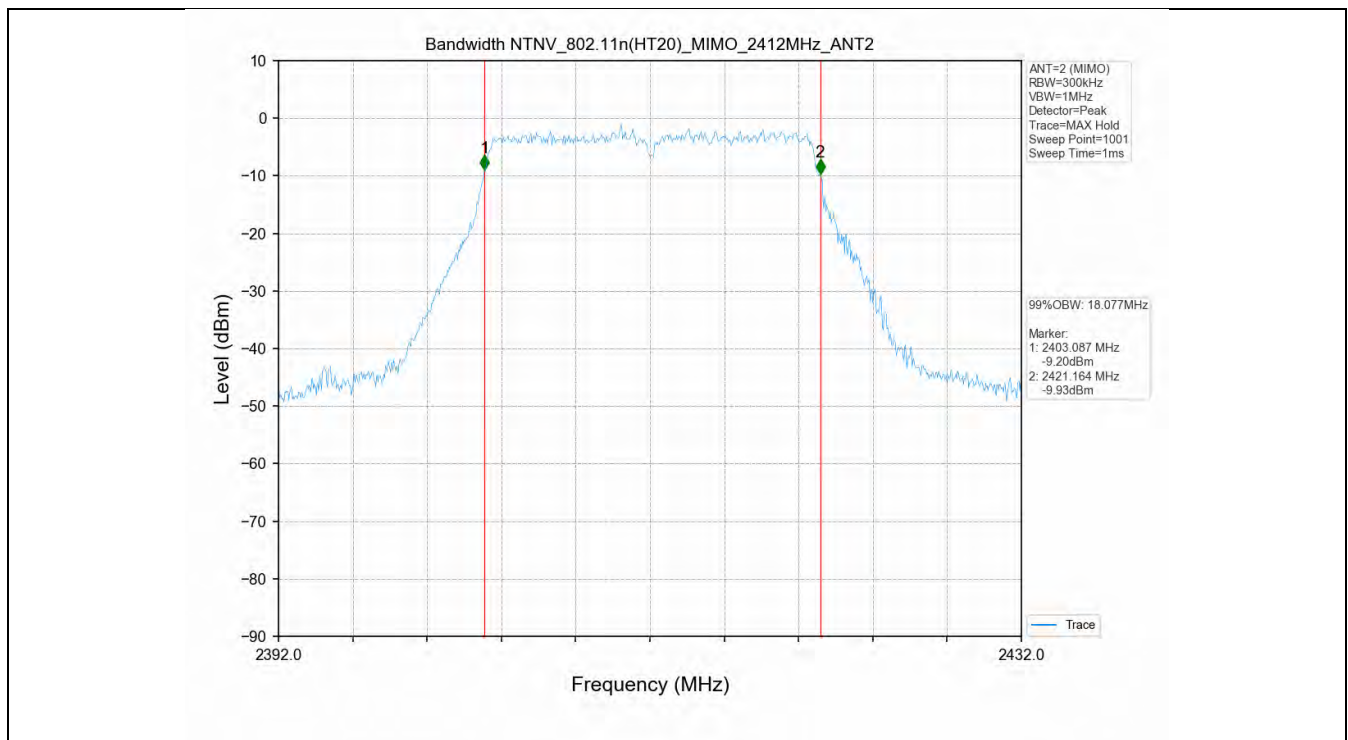
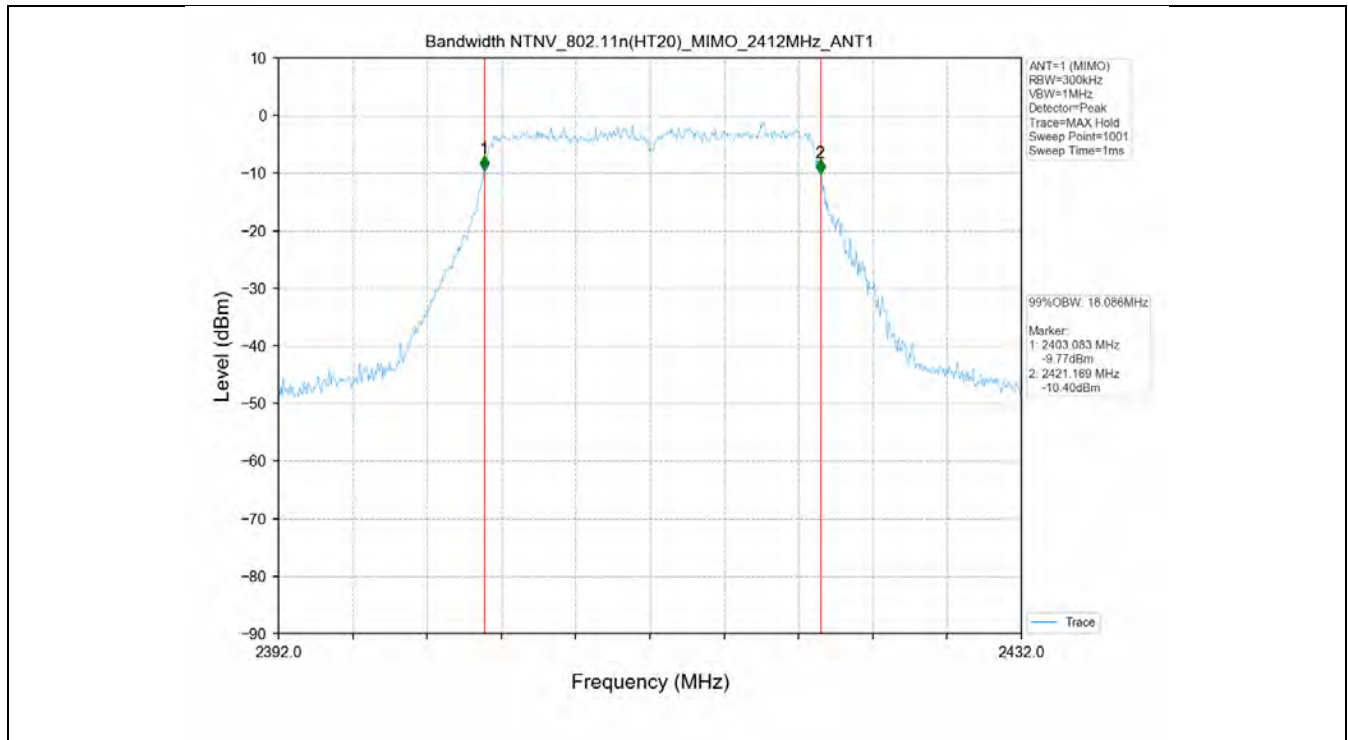


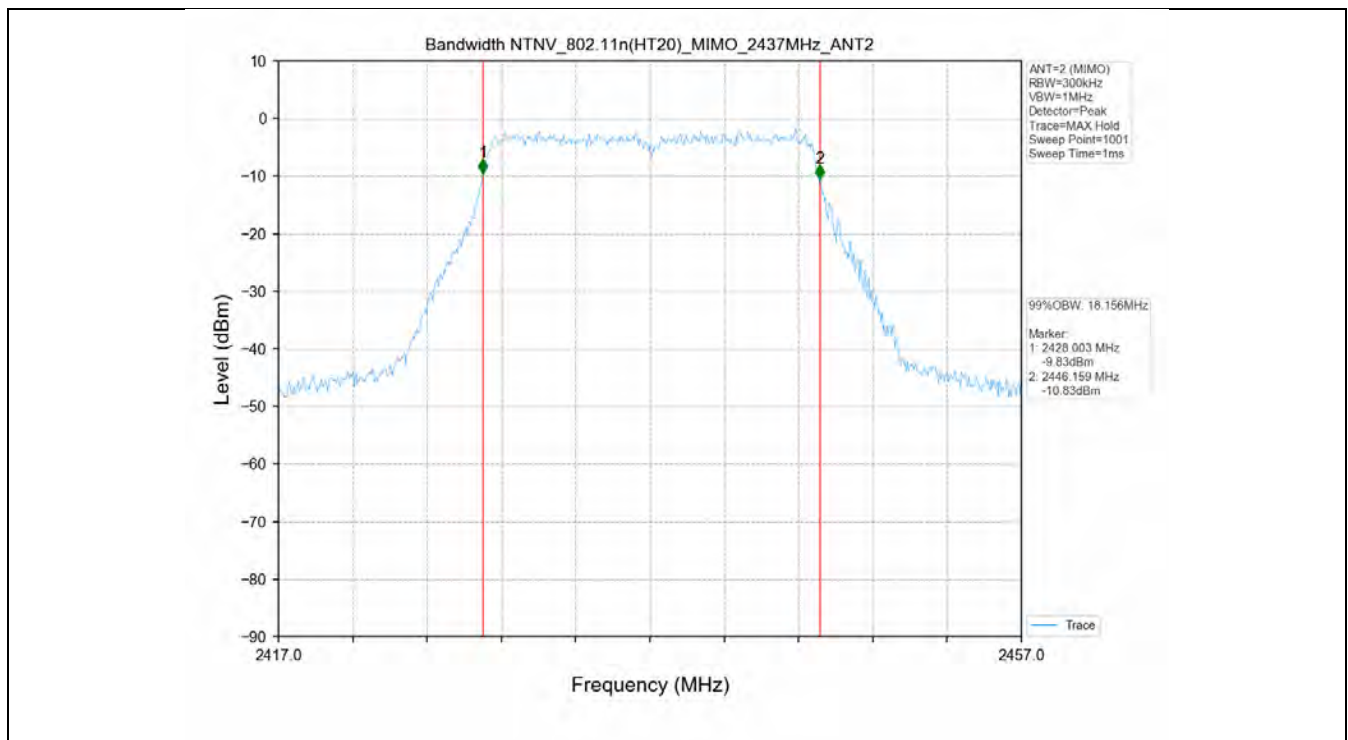
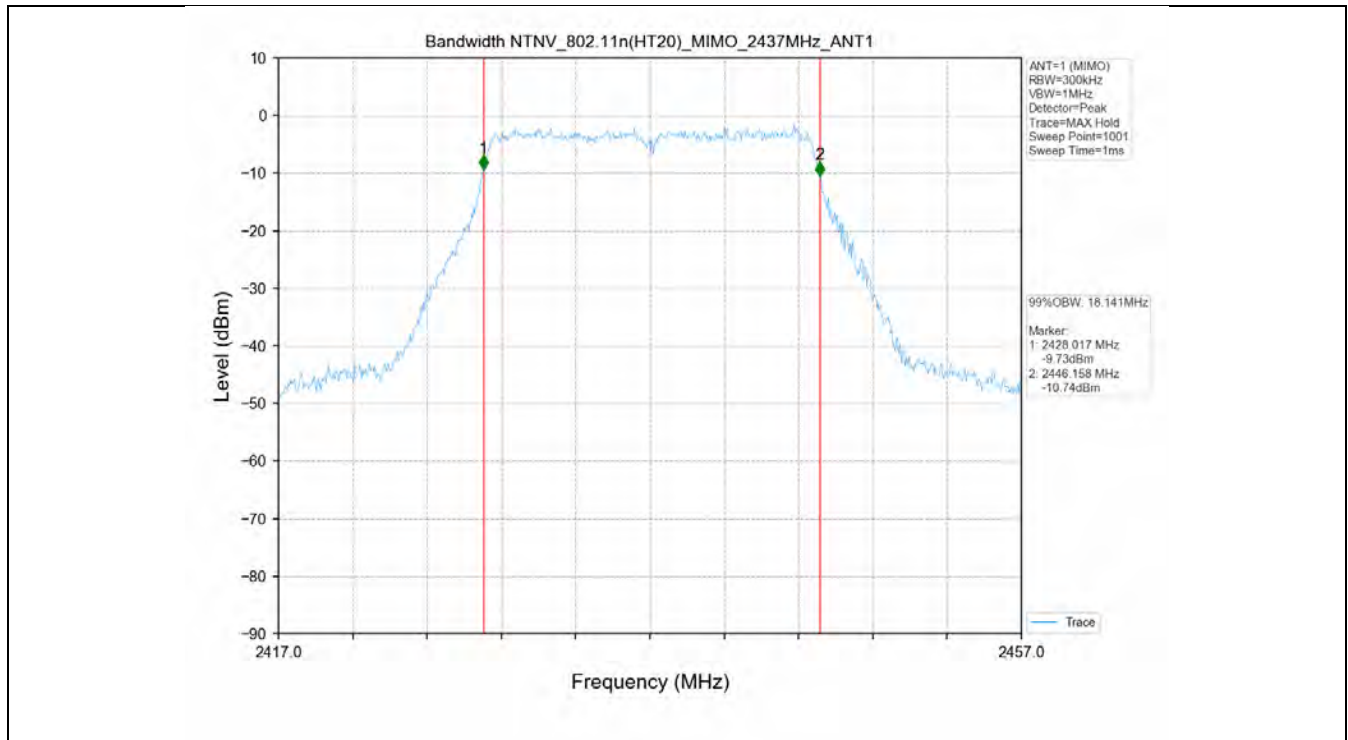


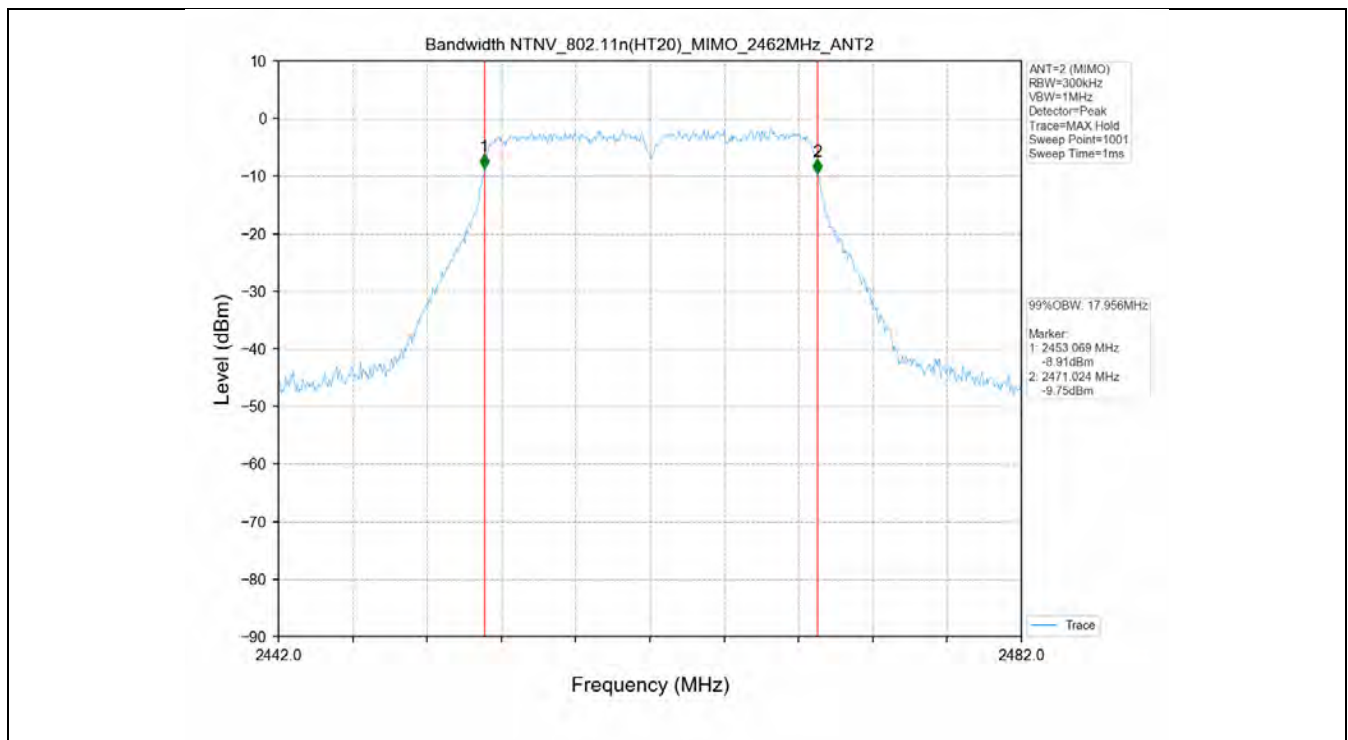
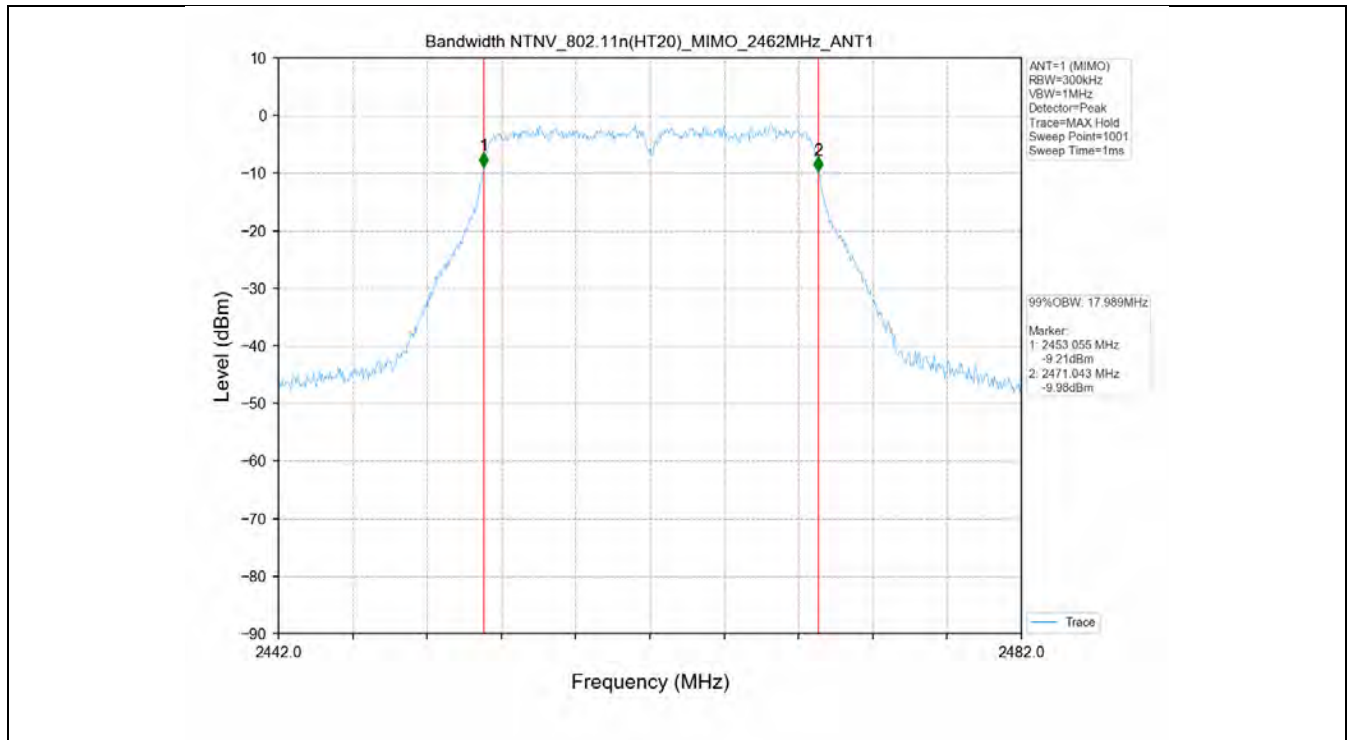












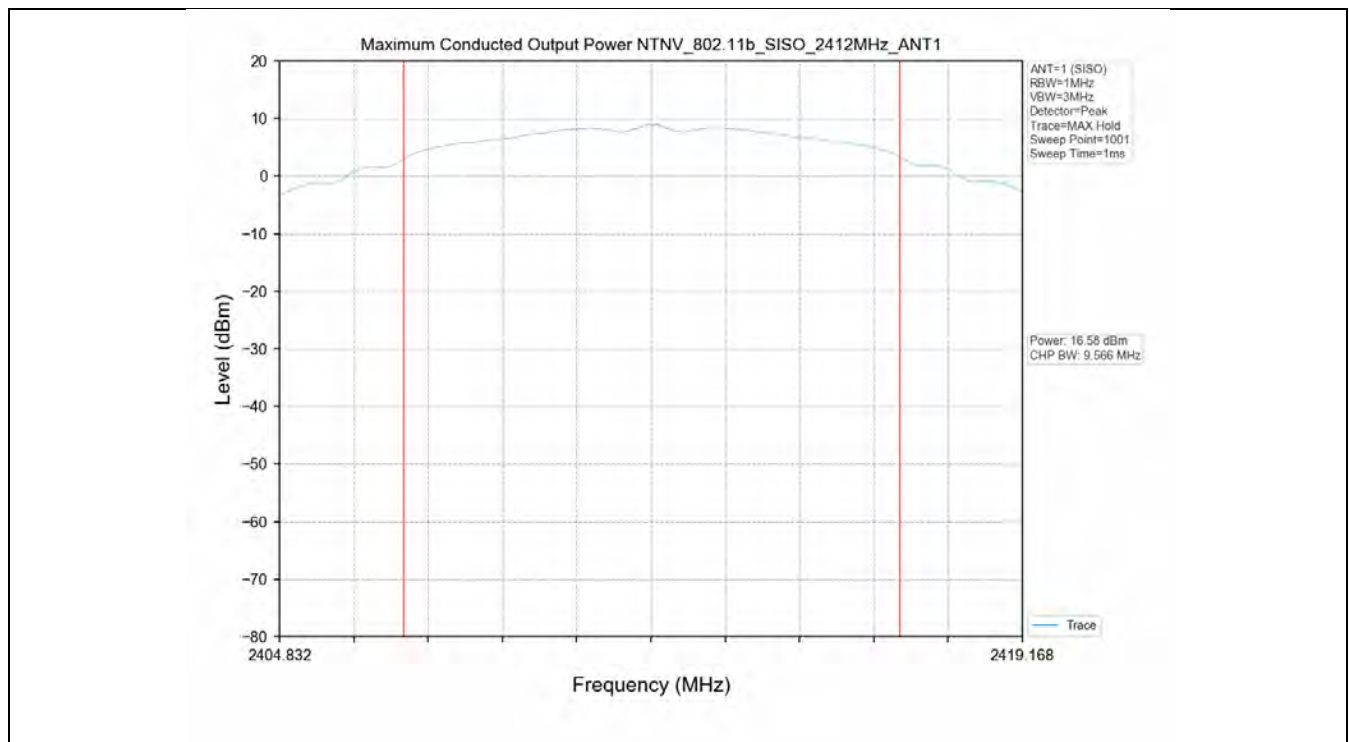


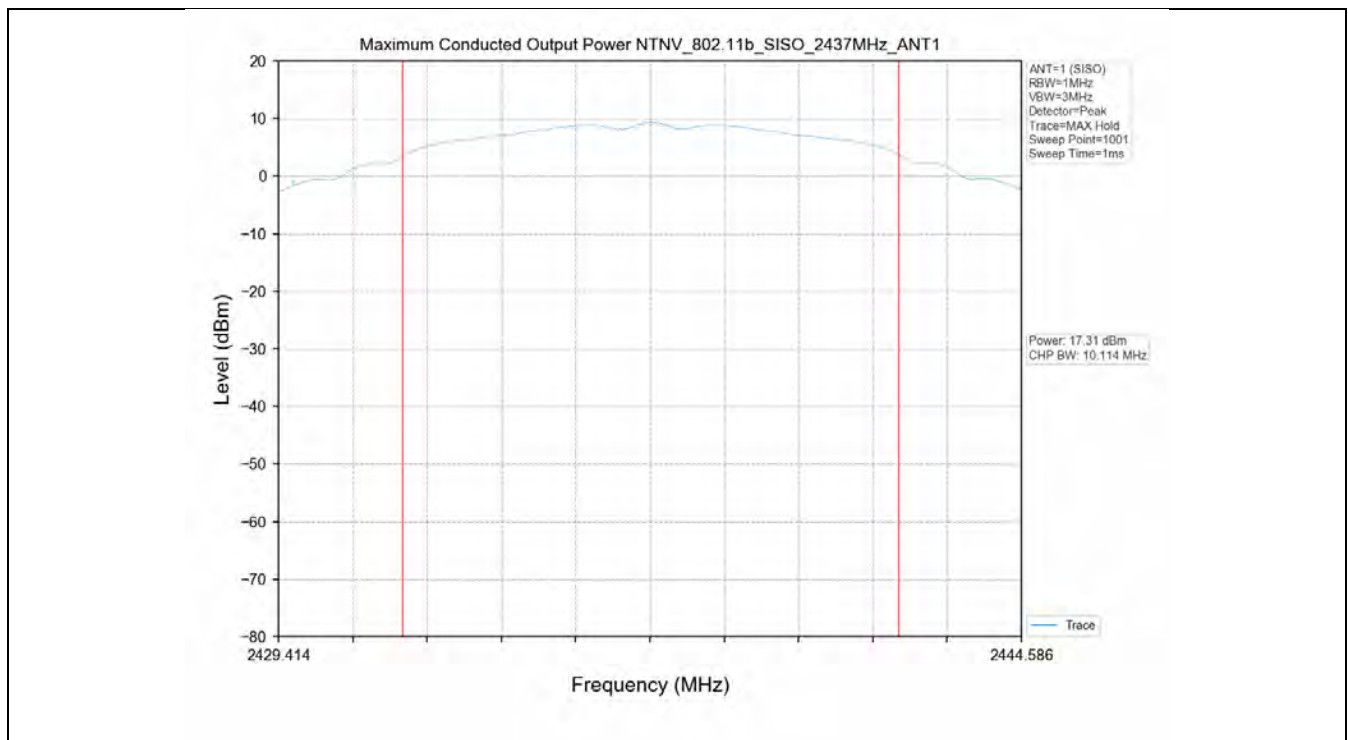
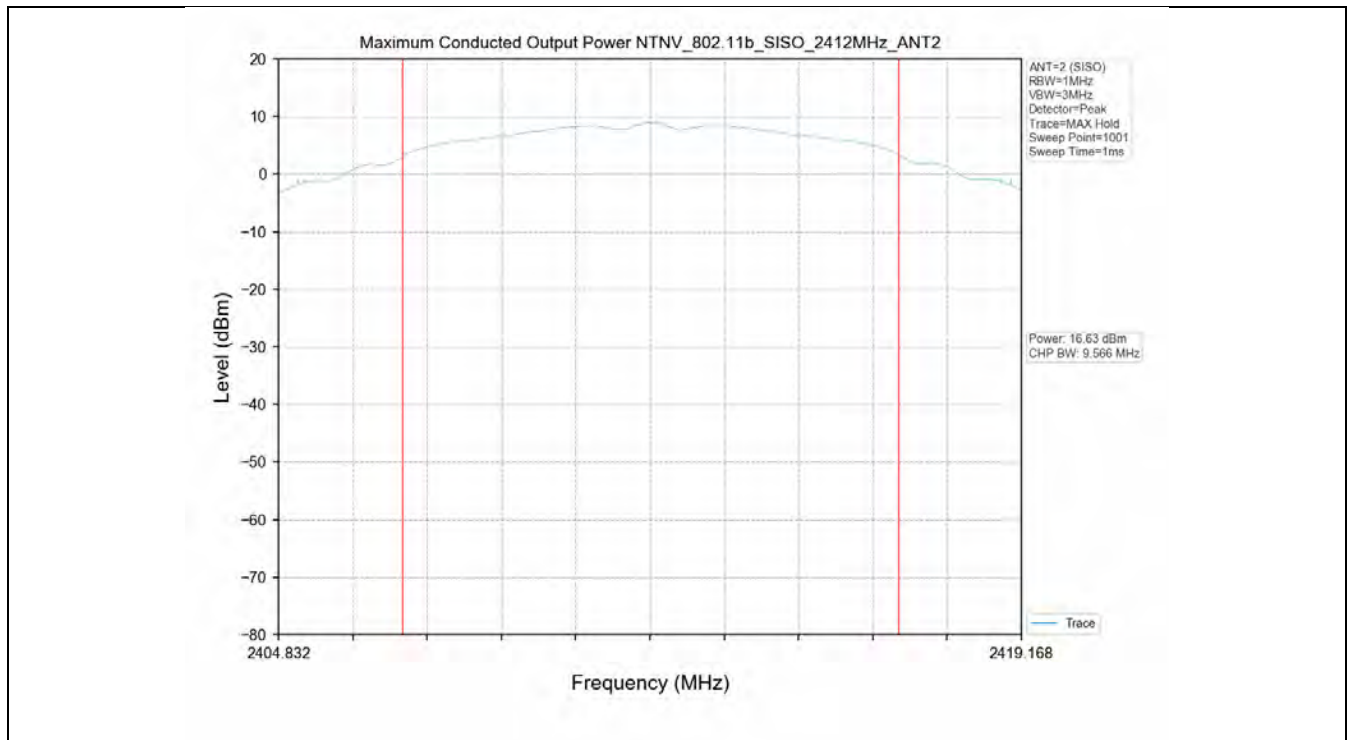
3. Maximum Conducted Output Power

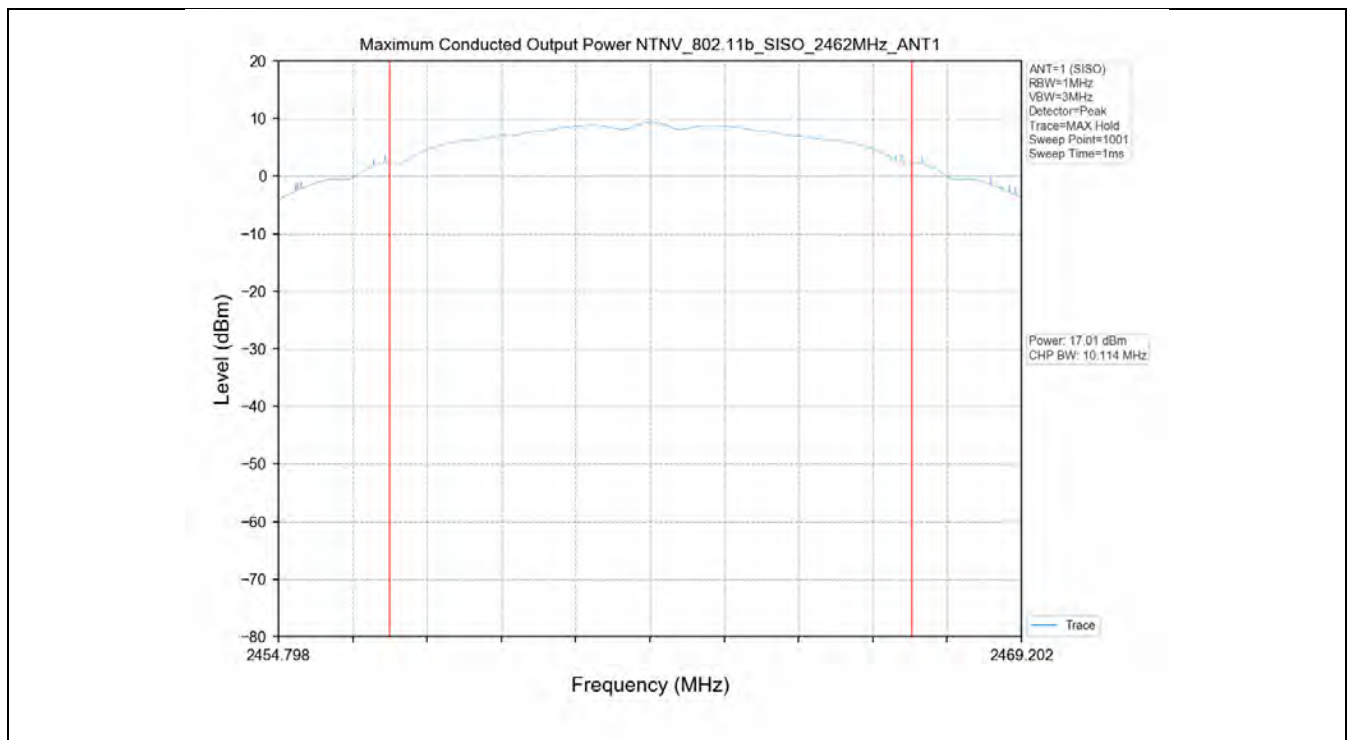
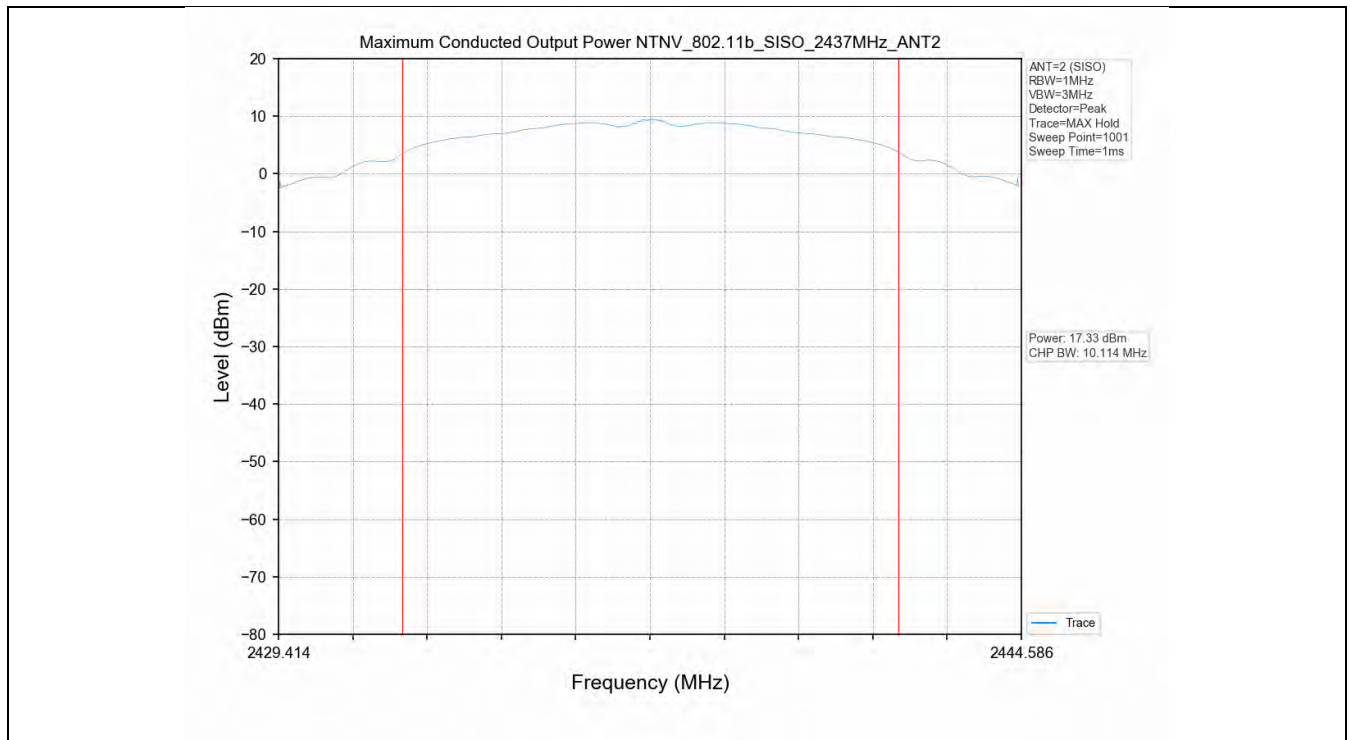
3.1 Test Result

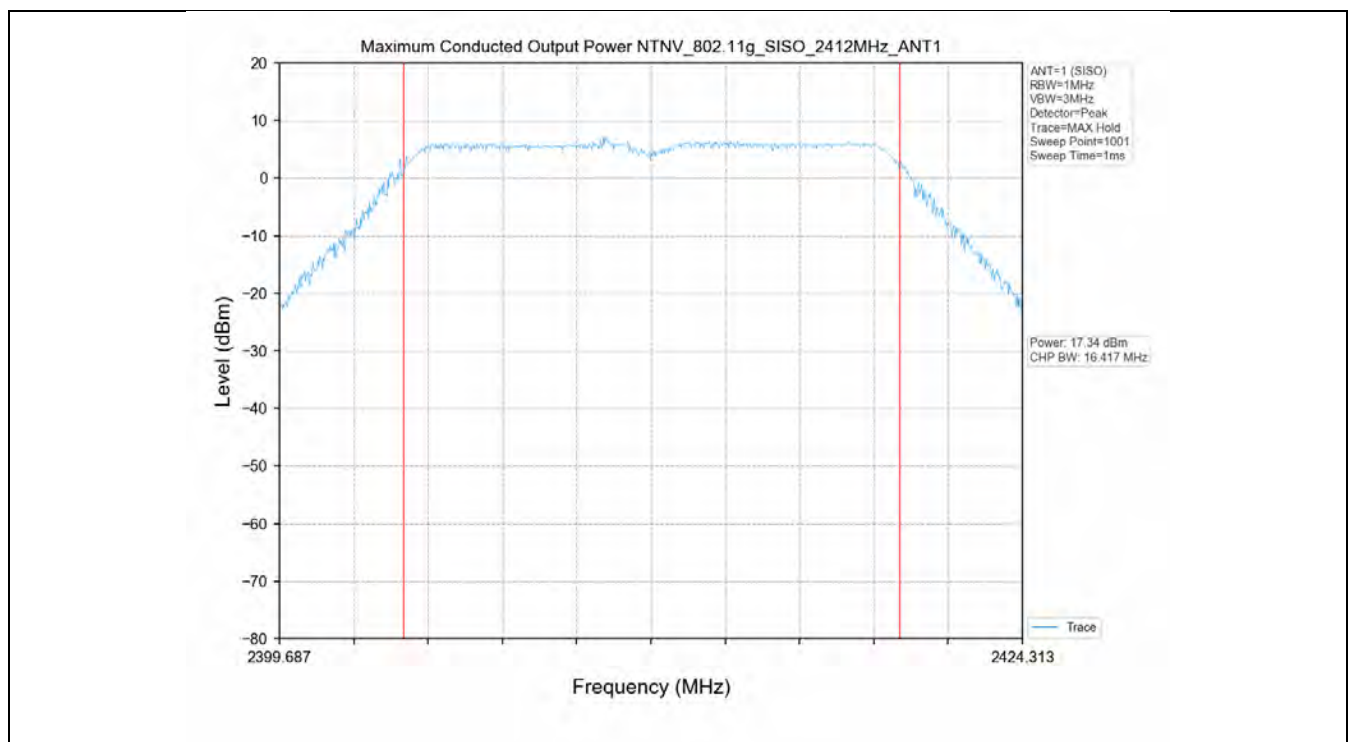
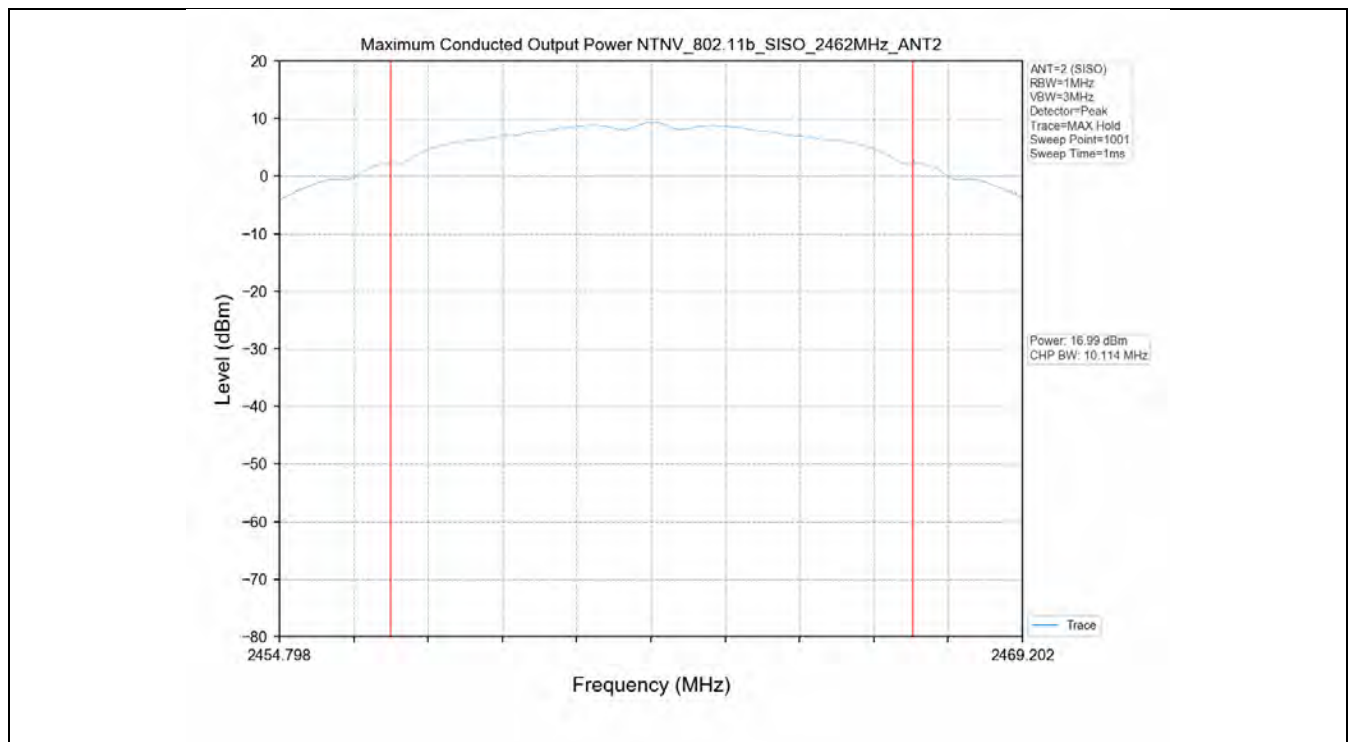
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	16.58	16.63	/	30	PASS
	2437	SISO	17.31	17.33	/	30	PASS
	2462	SISO	17.01	16.99	/	30	PASS
802.11g	2412	SISO	17.34	17.35	/	30	PASS
	2437	SISO	16.95	16.95	/	30	PASS
	2462	SISO	17.30	17.30	/	30	PASS
802.11n(HT20)	2412	MIMO	14.91	14.88	17.91	30	PASS
	2437	MIMO	14.76	14.73	17.76	30	PASS
	2462	MIMO	14.12	14.16	17.15	30	PASS

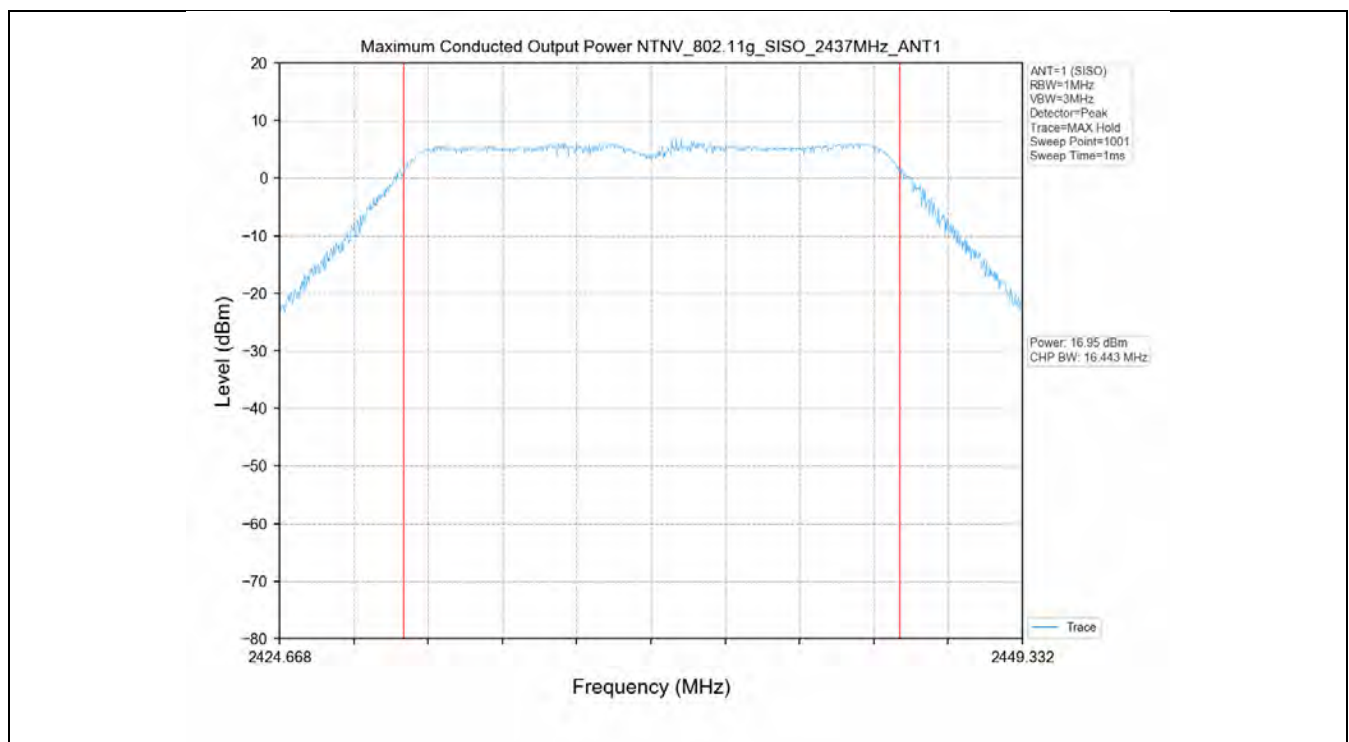
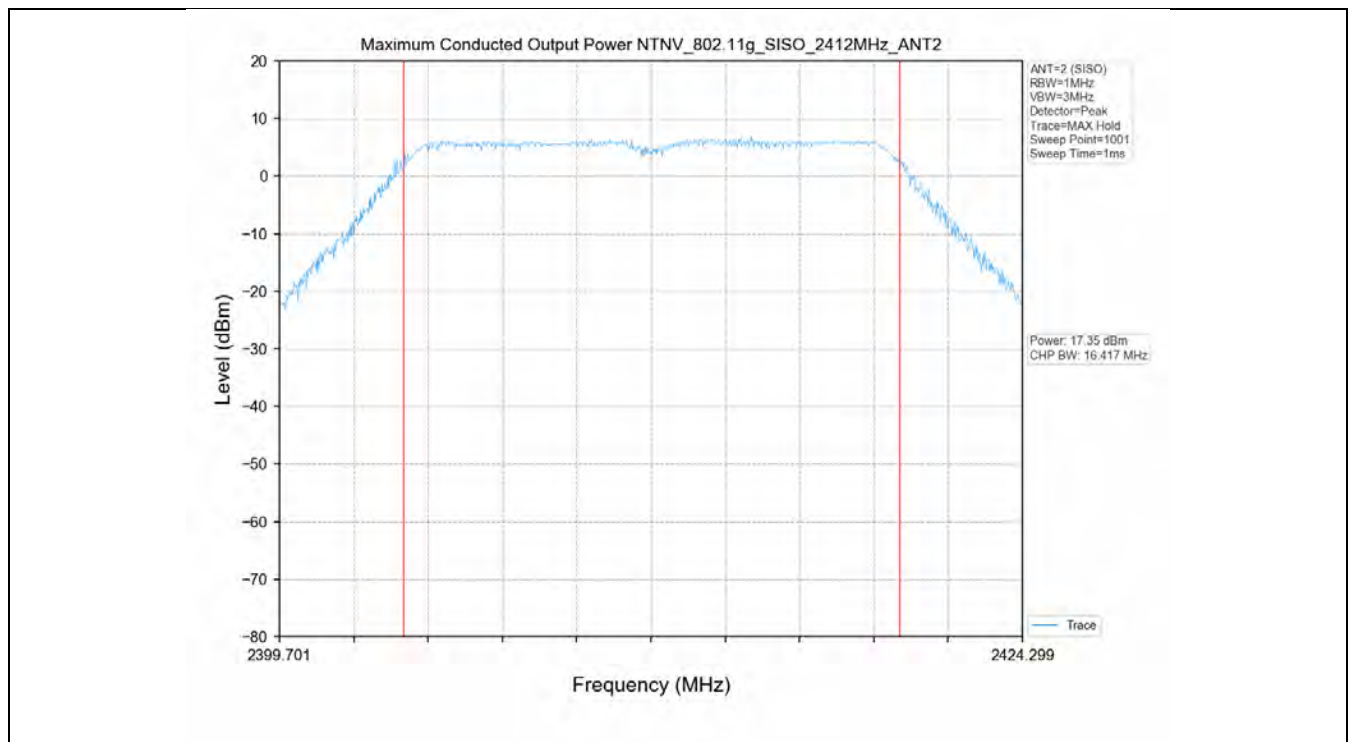
3.2 Test Graph

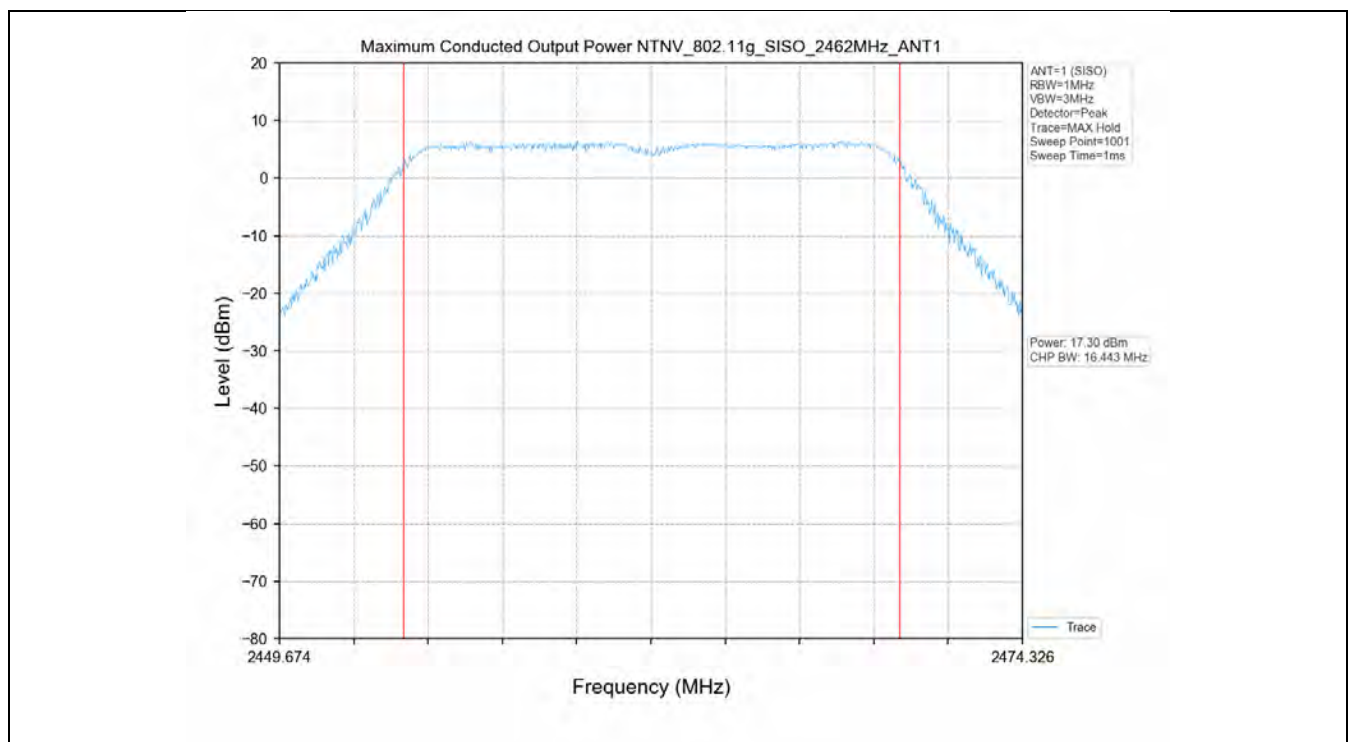
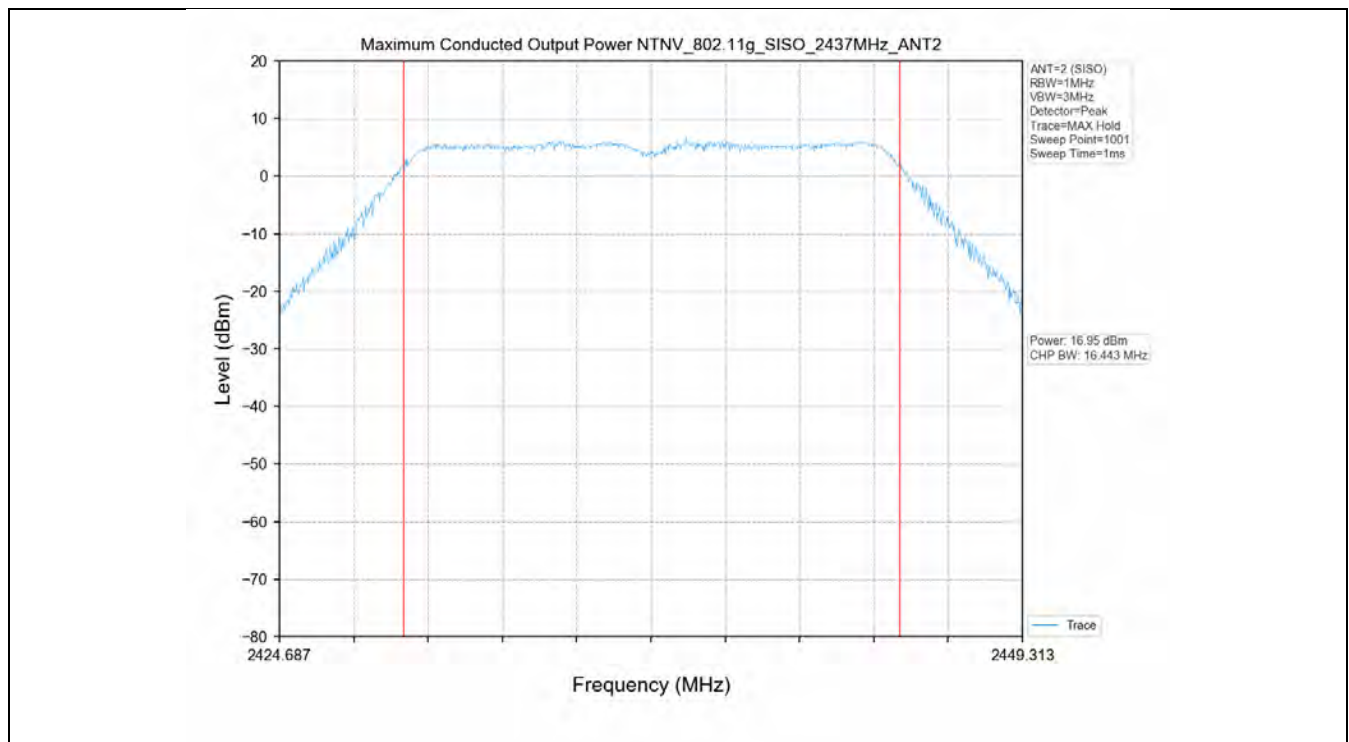


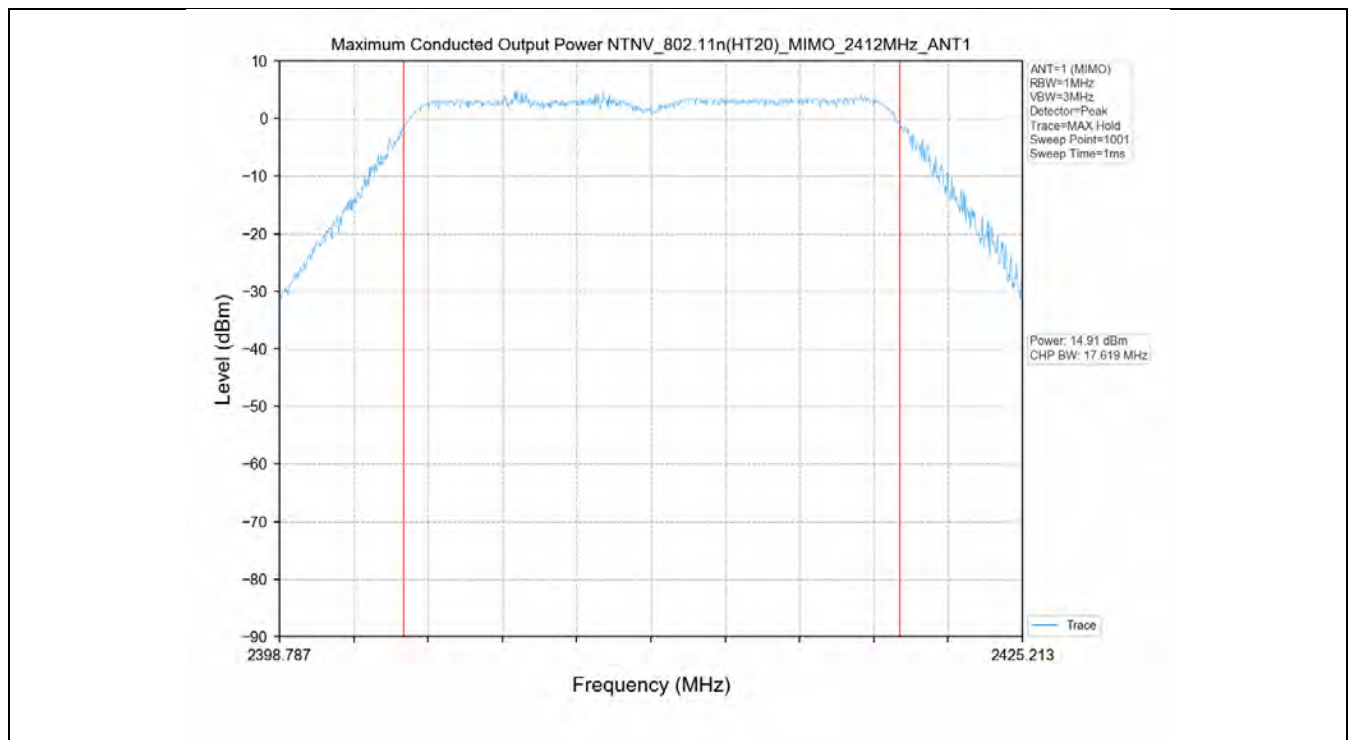
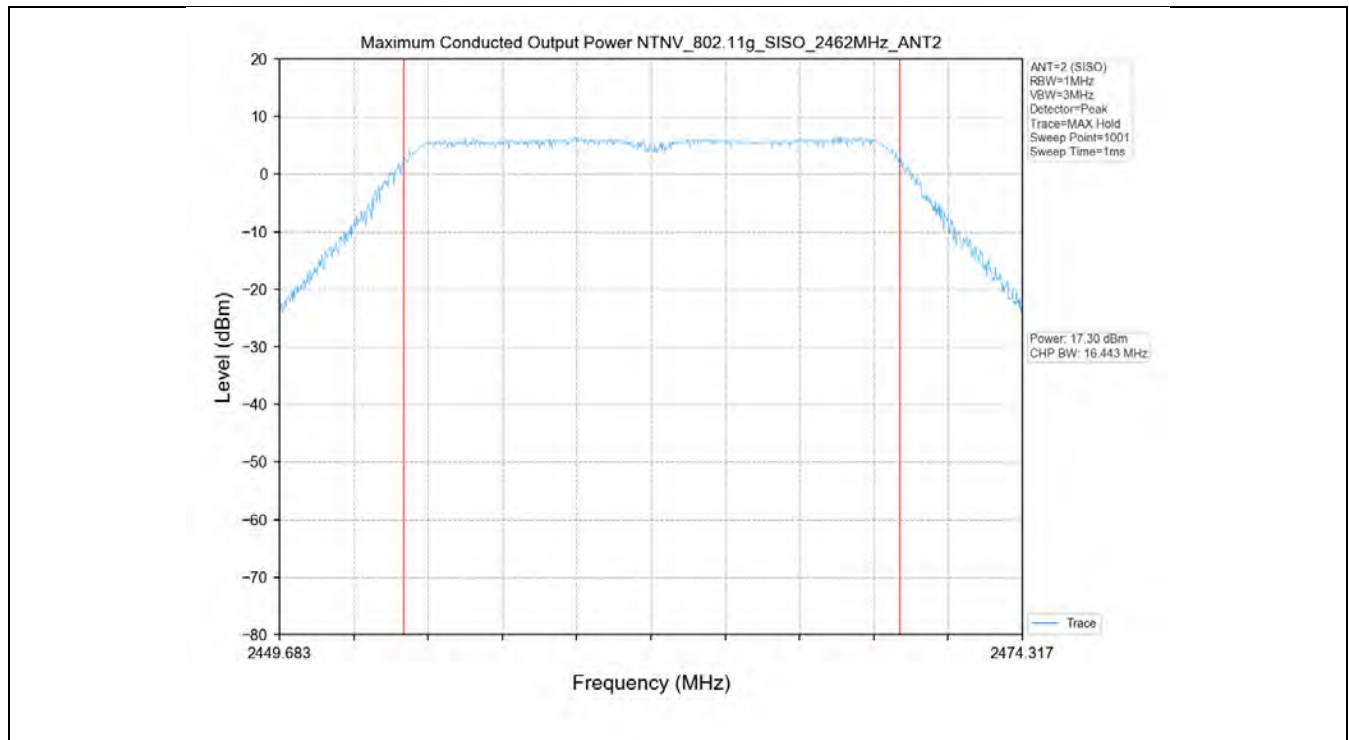


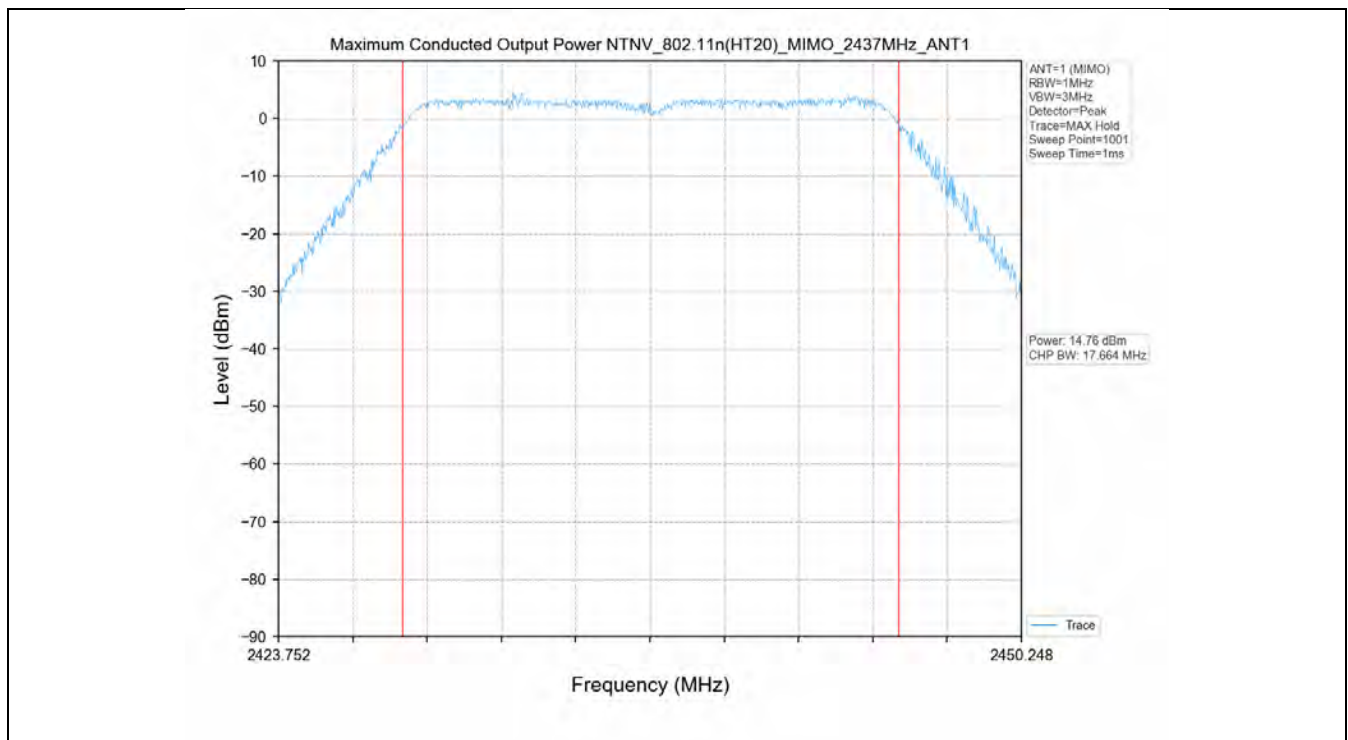
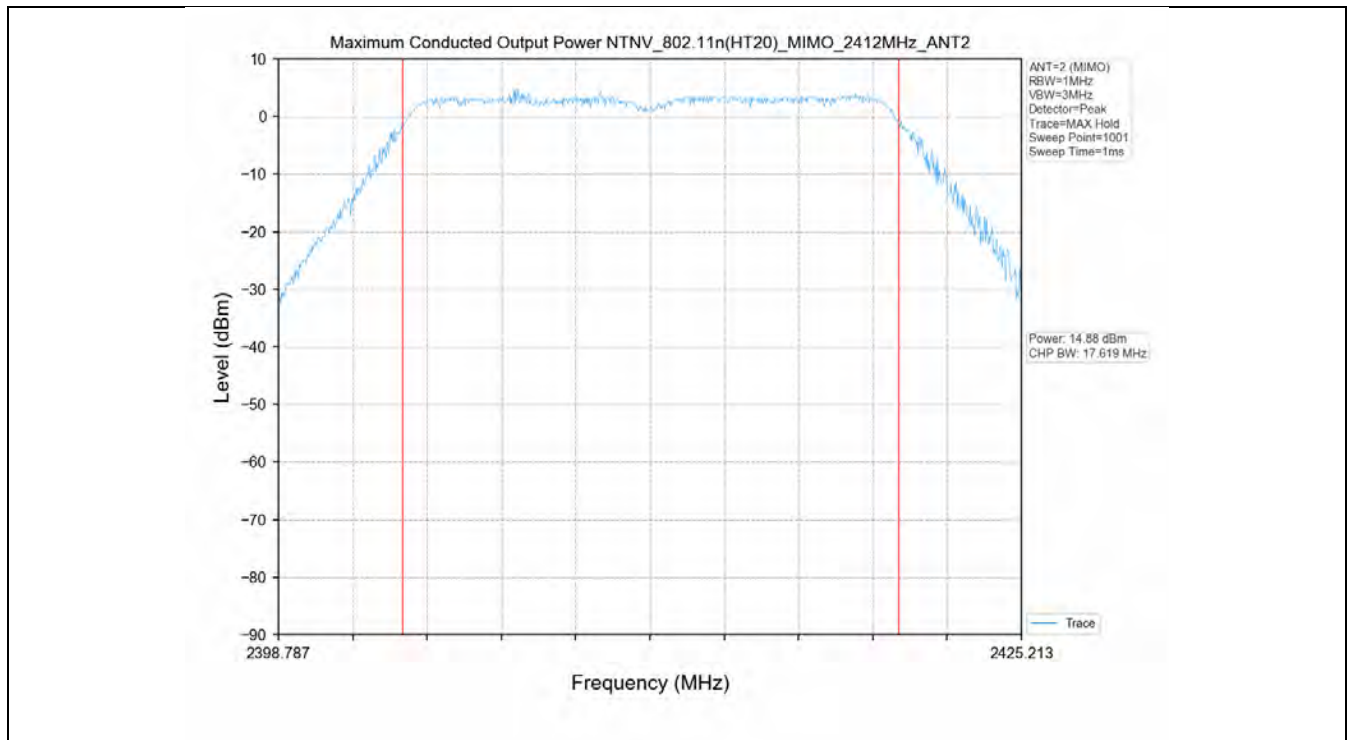


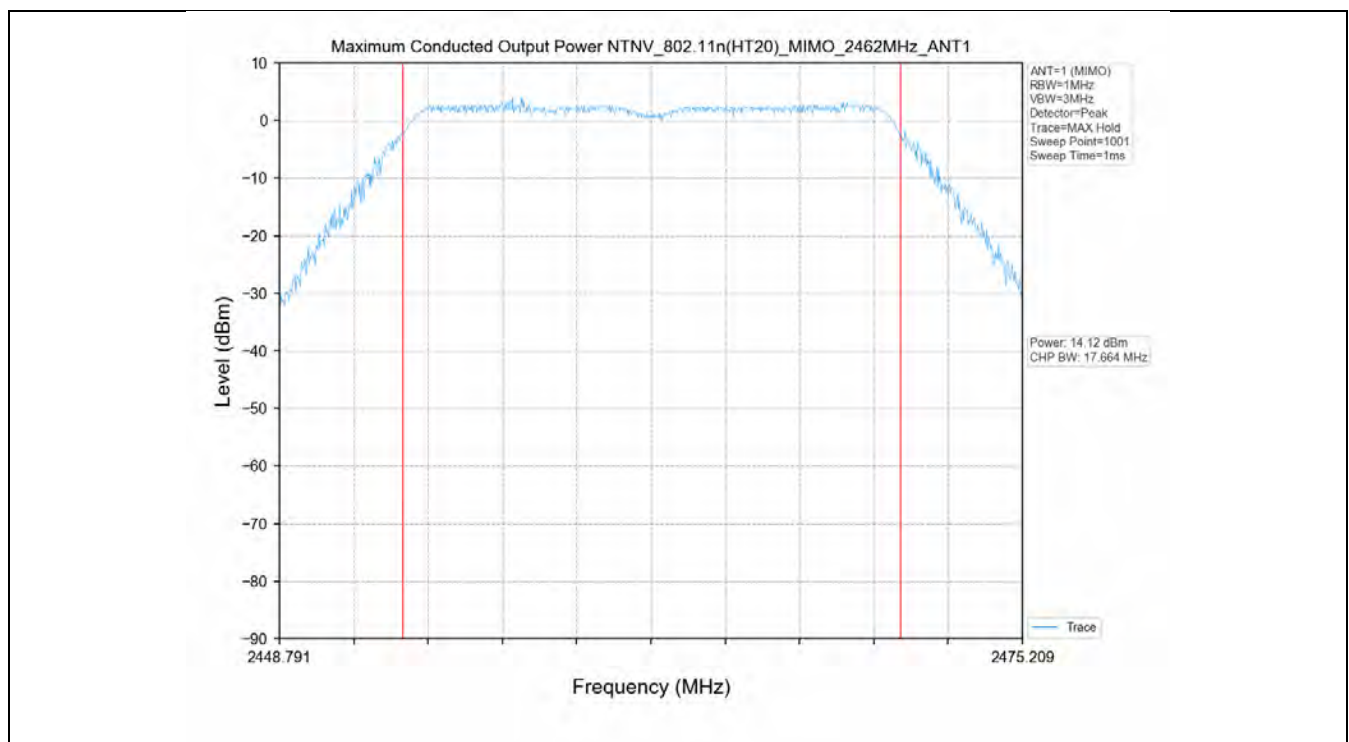
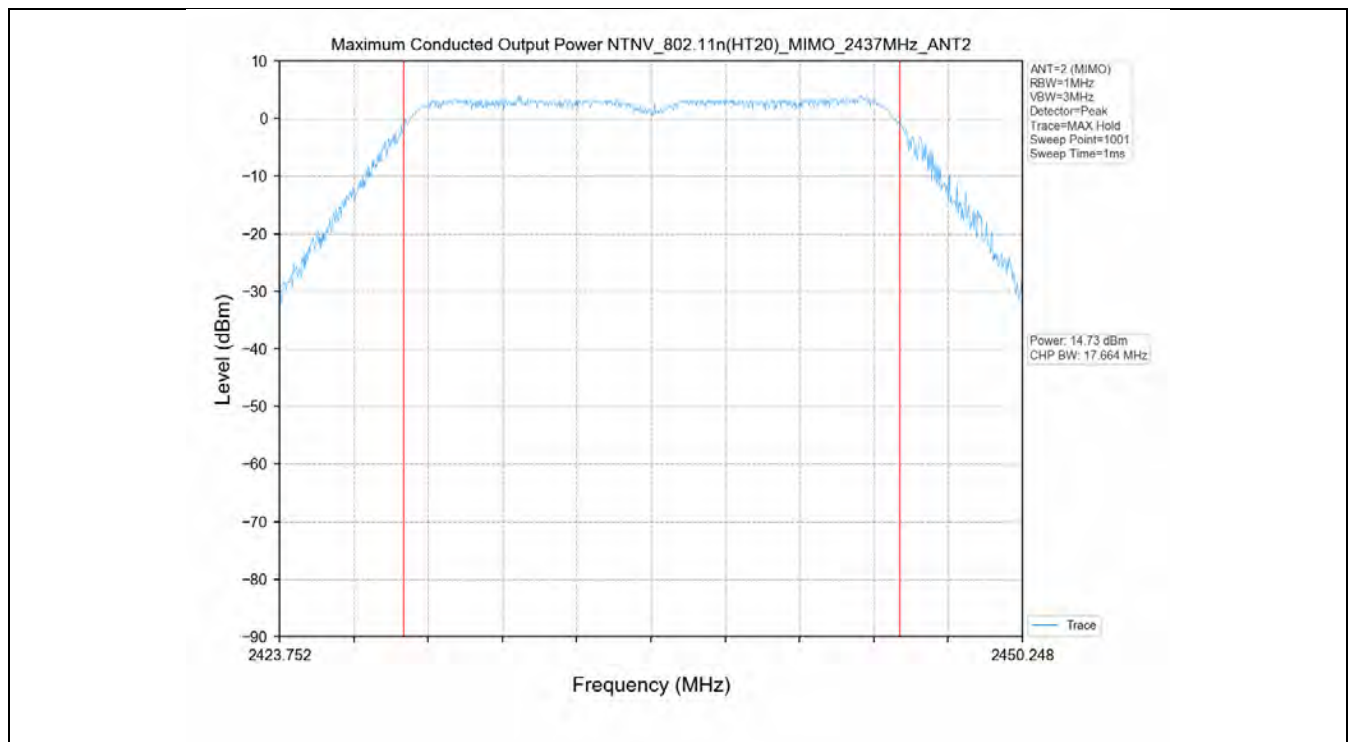


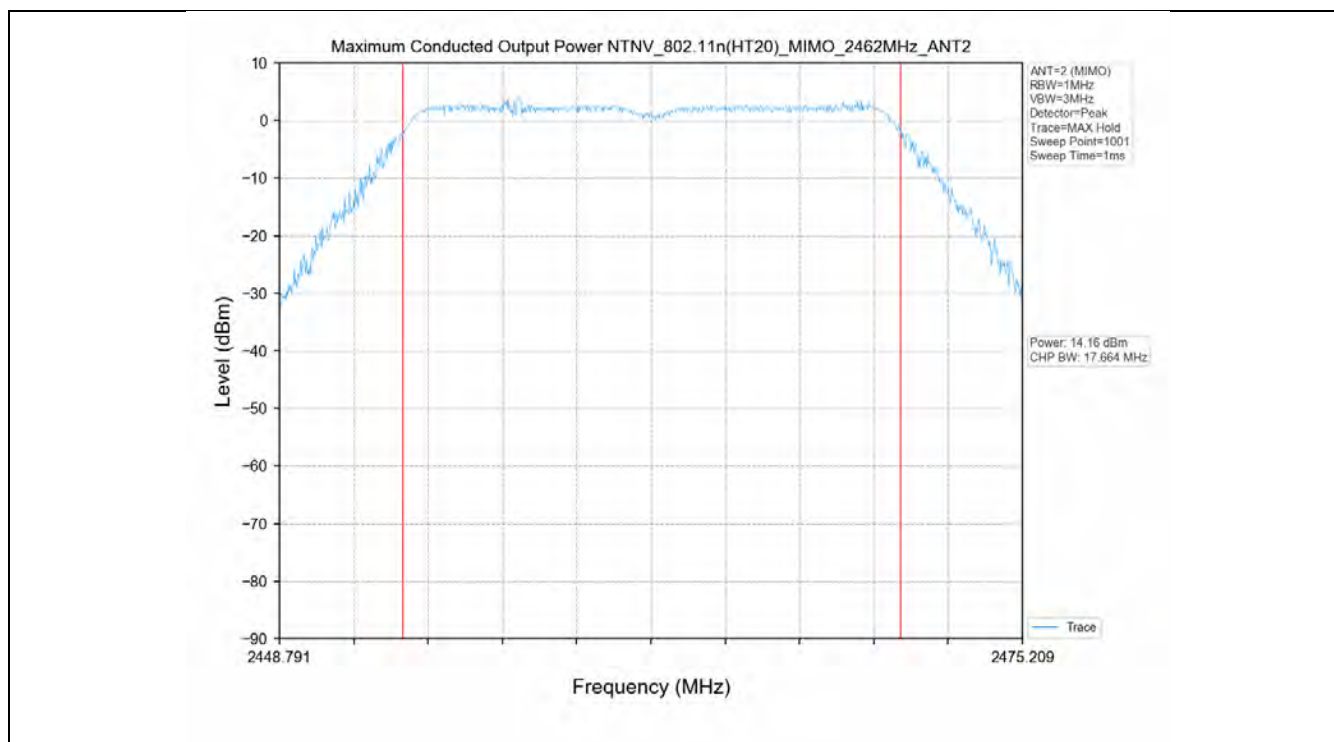










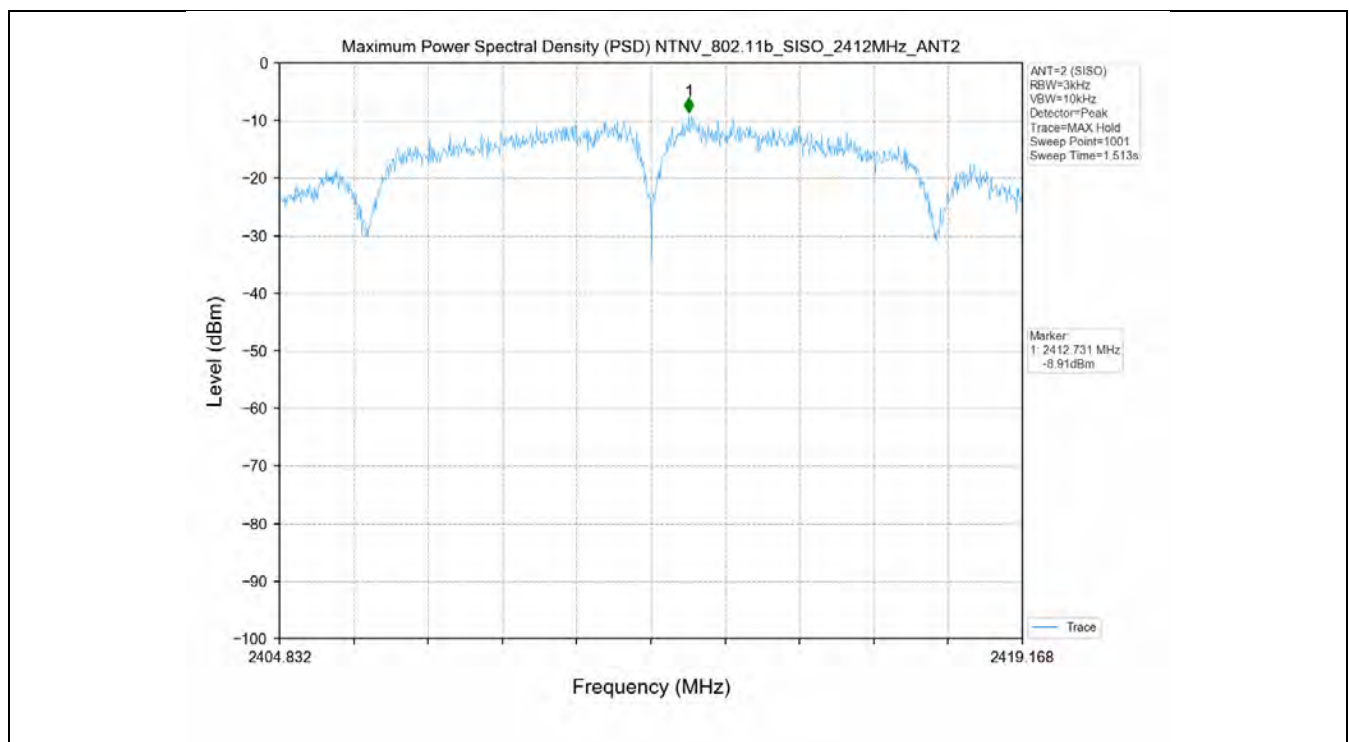
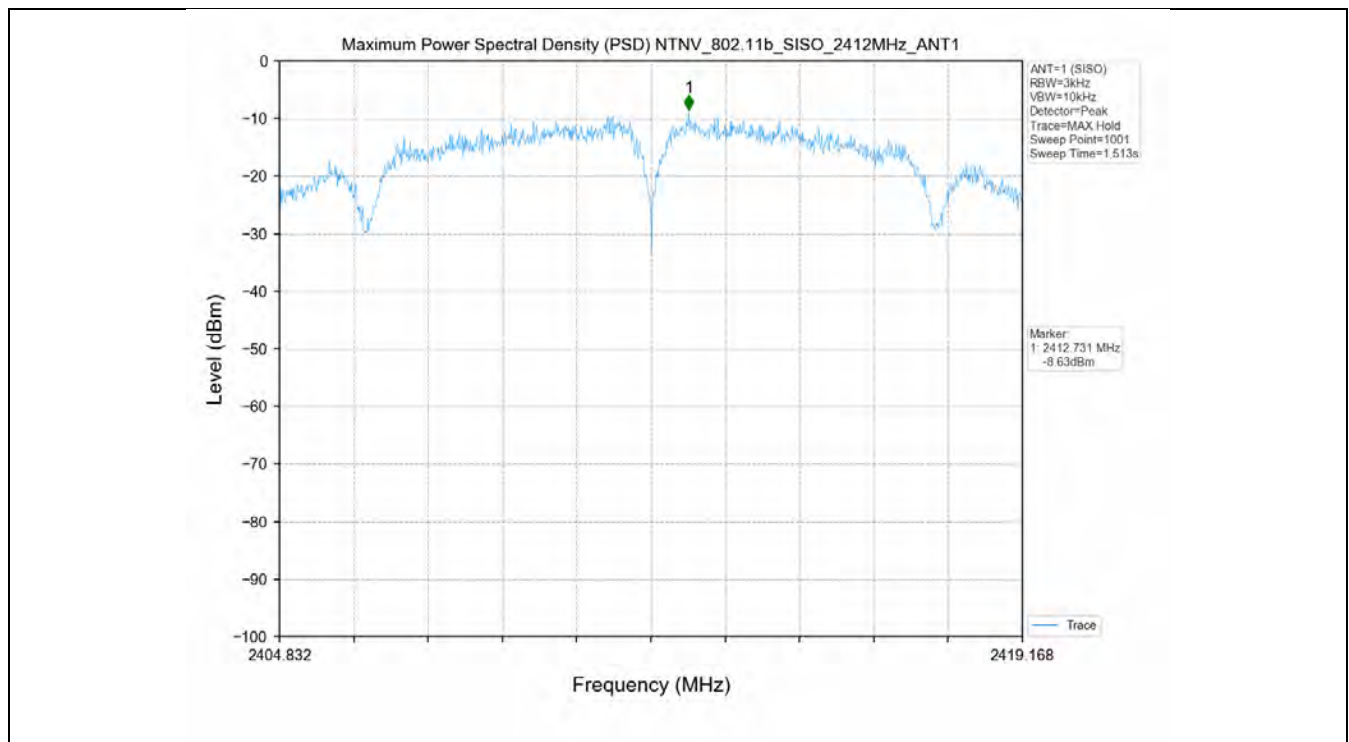


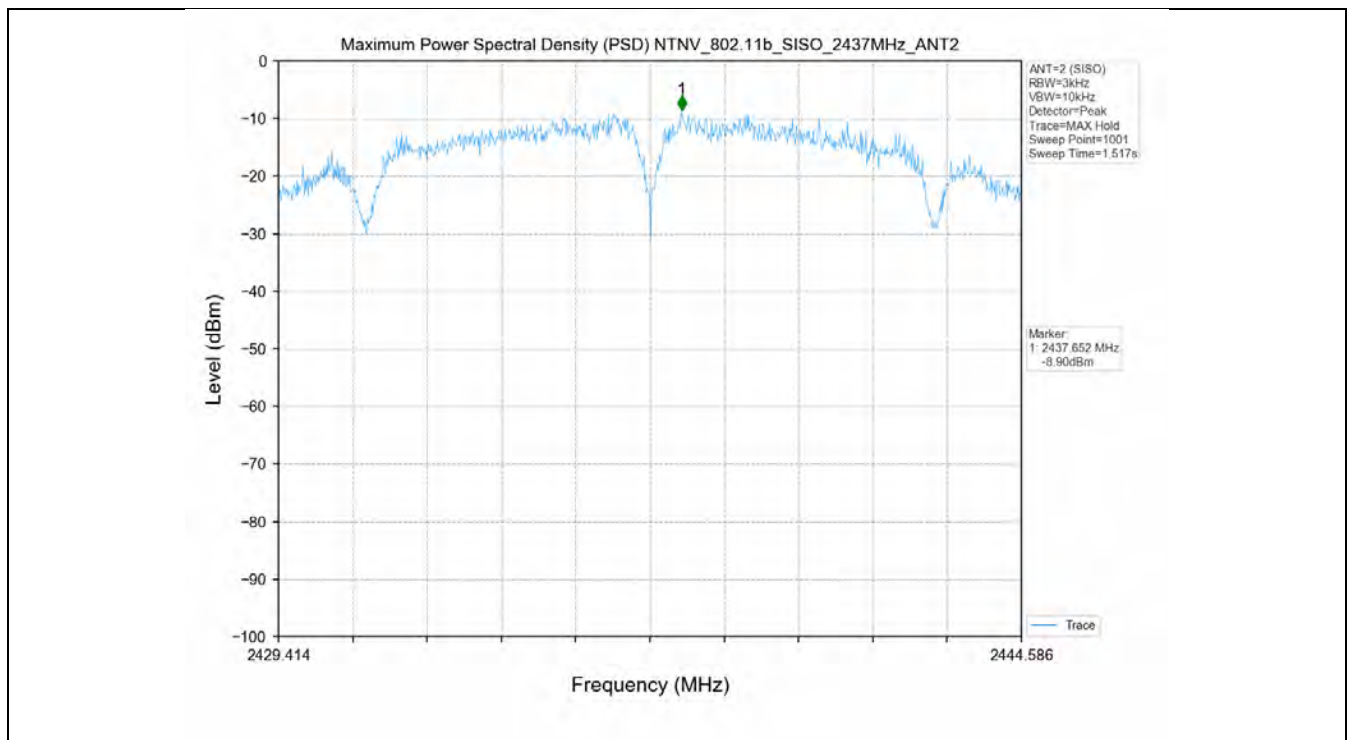
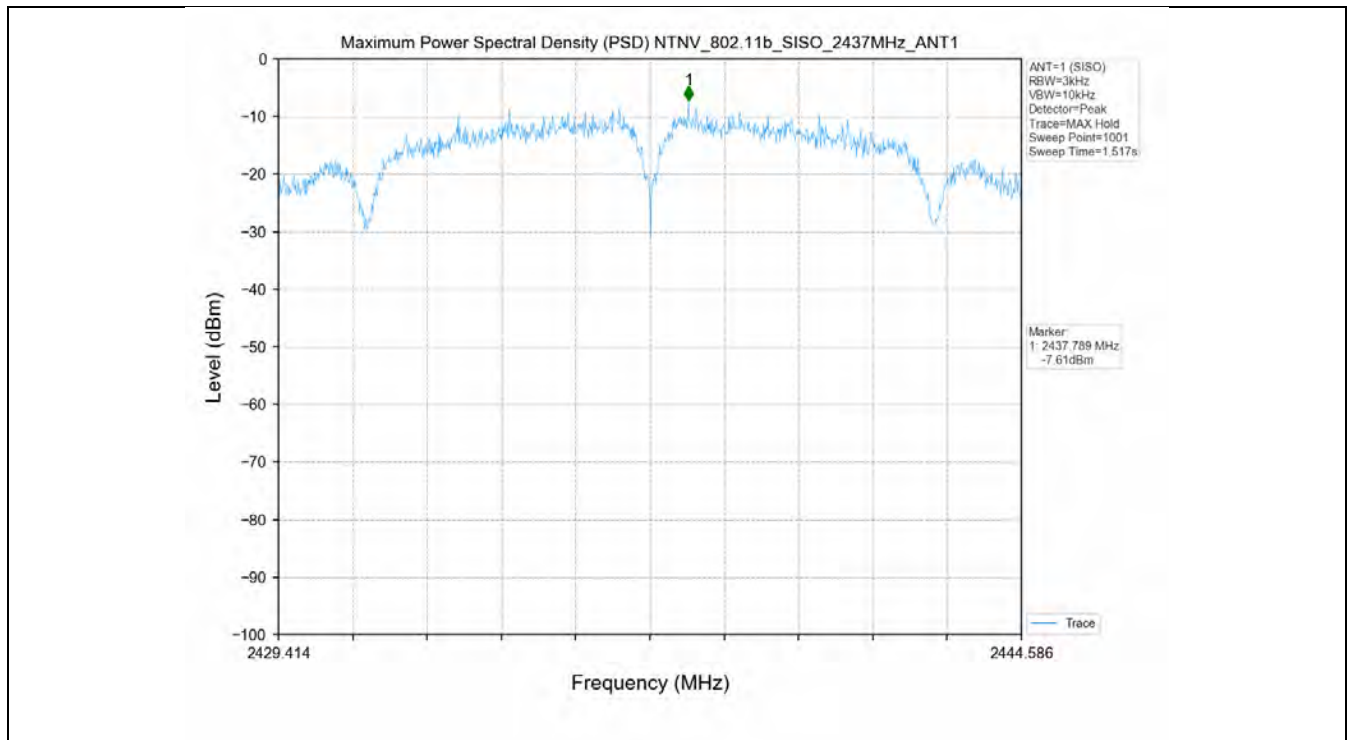
4. Maximum Power Spectral Density (PSD)

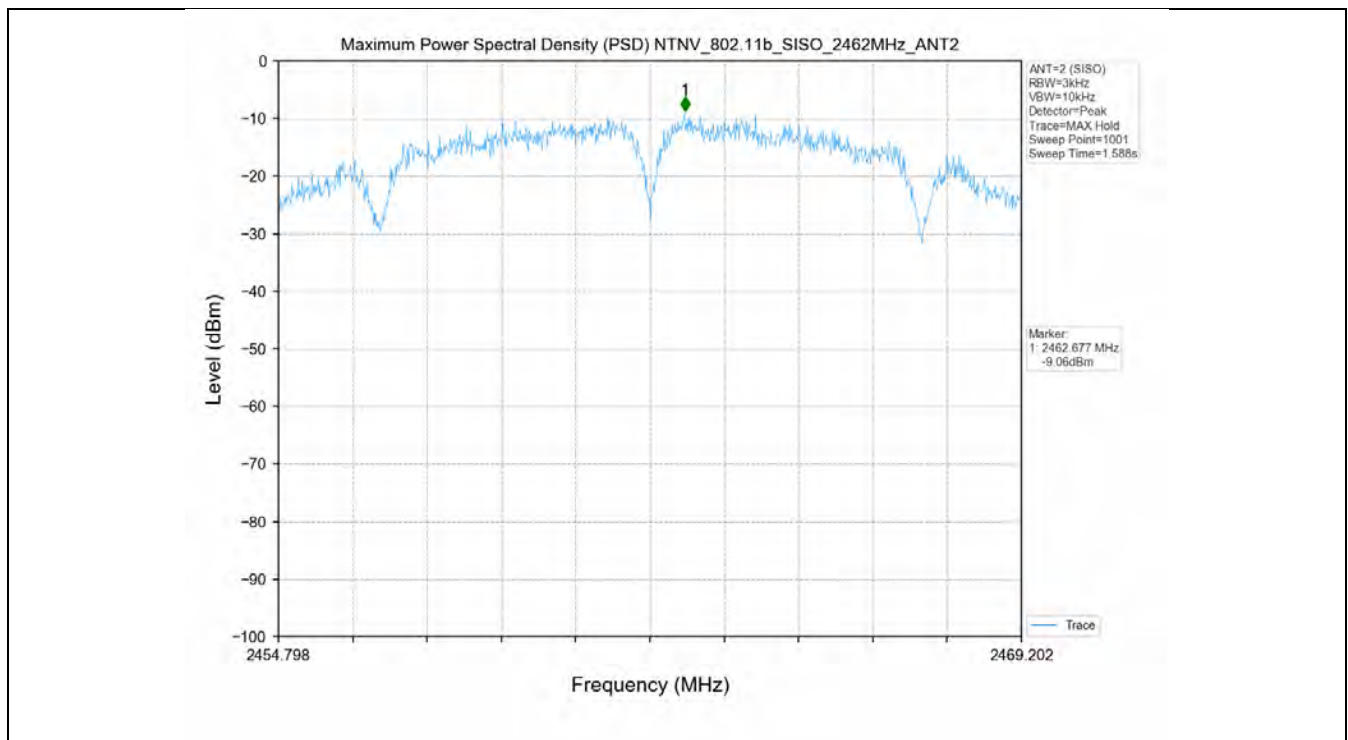
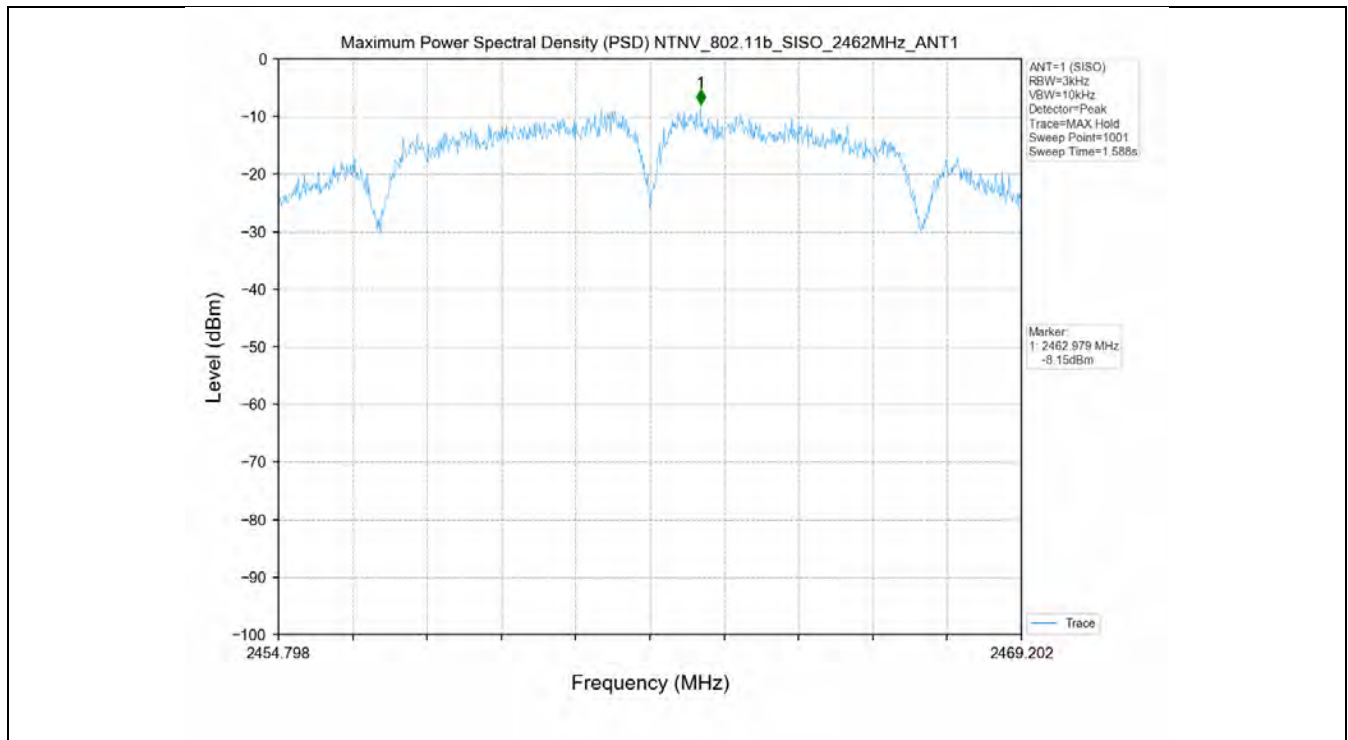
4.1 Test Result

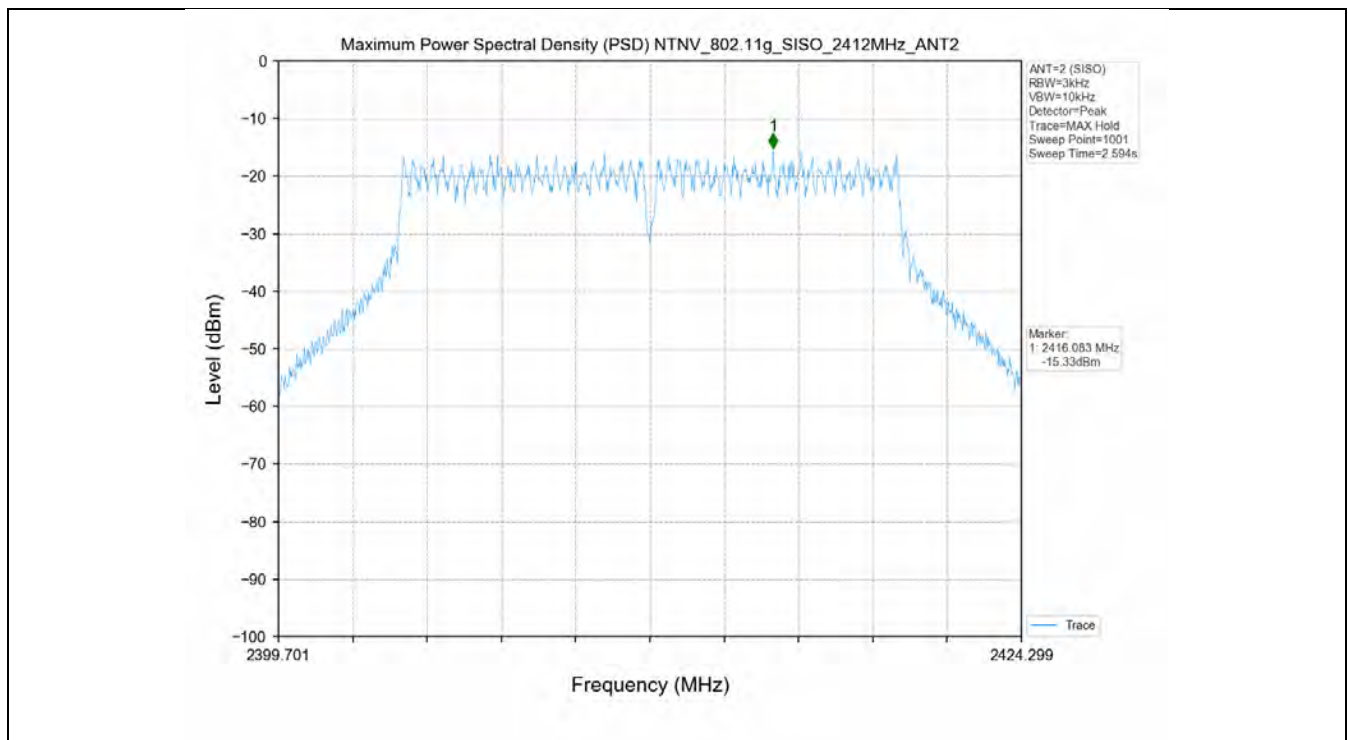
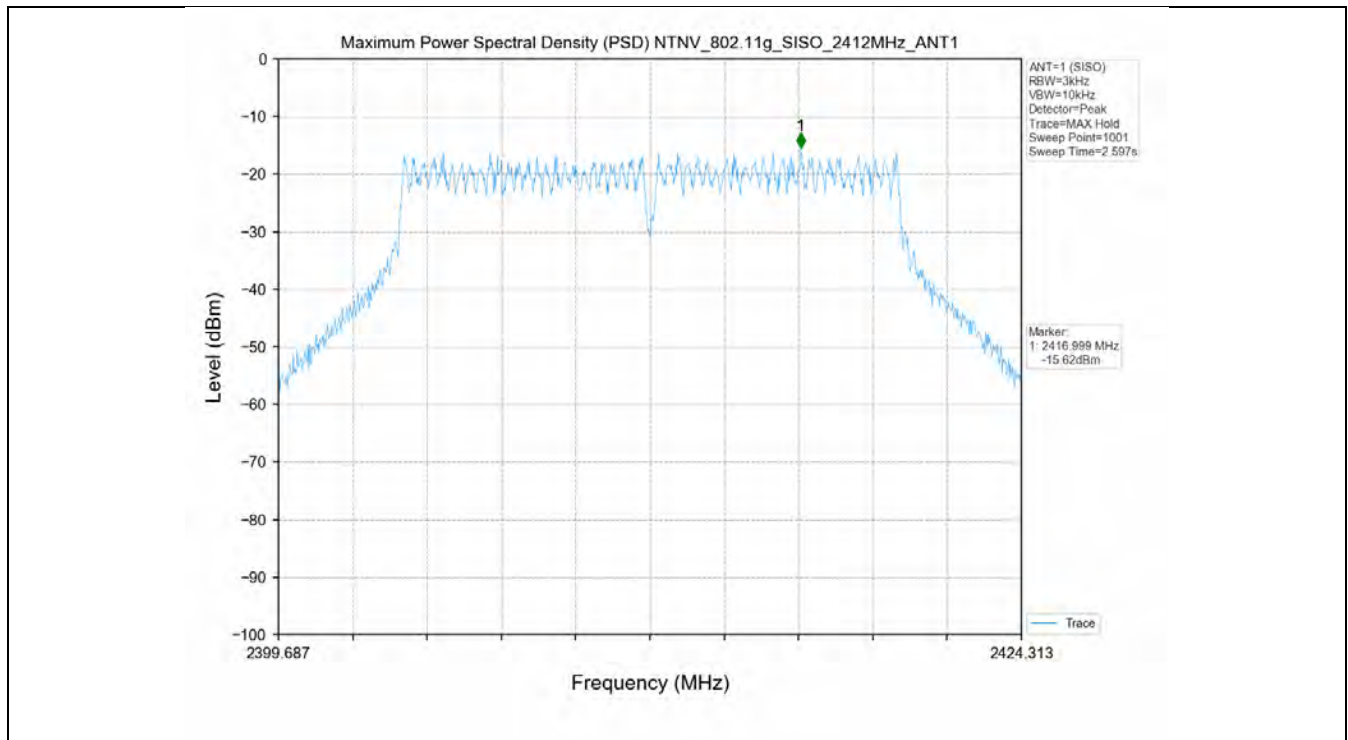
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-8.63	-8.91	/	≤8	PASS
	2437	SISO	-7.61	-8.90	/	≤8	PASS
	2462	SISO	-8.15	-9.06	/	≤8	PASS
802.11g	2412	SISO	-15.62	-15.33	/	≤8	PASS
	2437	SISO	-16.44	-15.70	/	≤8	PASS
	2462	SISO	-15.36	-14.53	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-18.51	-18.53	-15.51	≤8	PASS
	2437	MIMO	-18.39	-18.45	-15.54	≤8	PASS
	2462	MIMO	-18.13	-17.40	-15.49	≤8	PASS

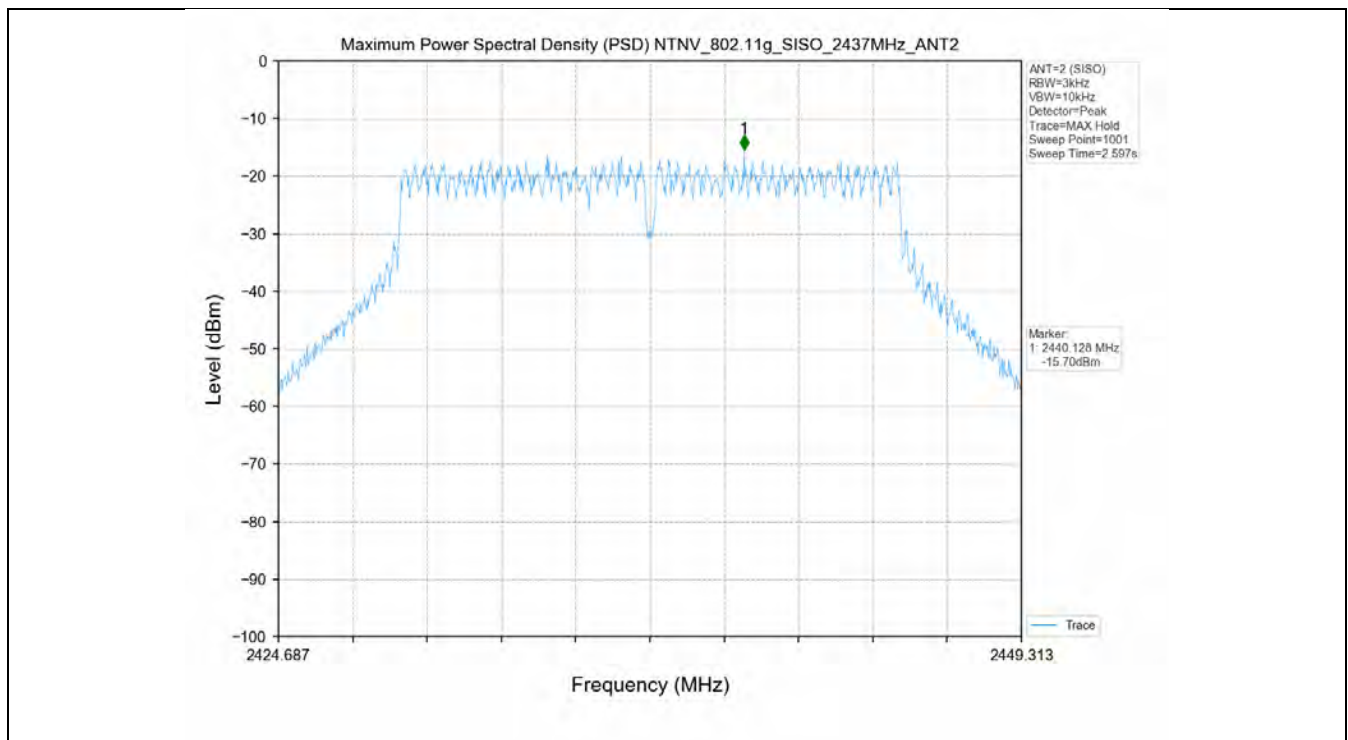
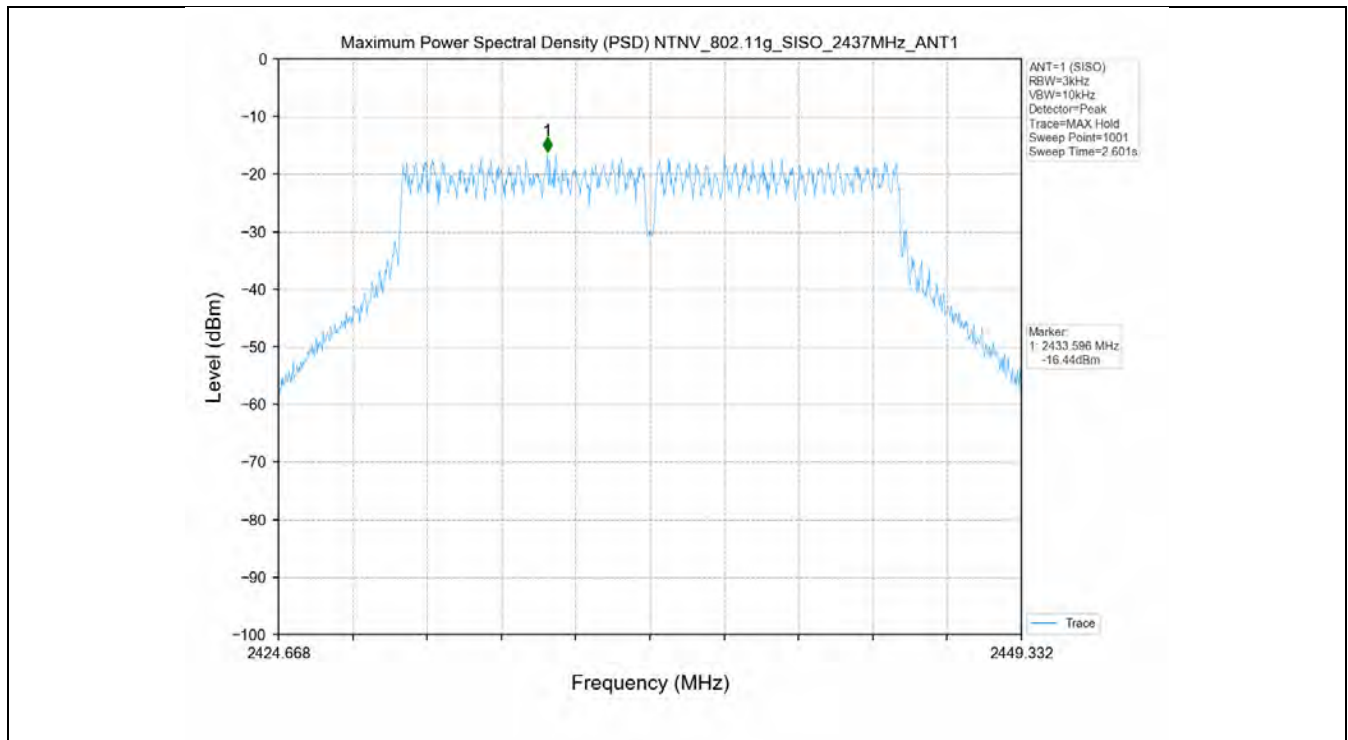
4.2 Test Graph

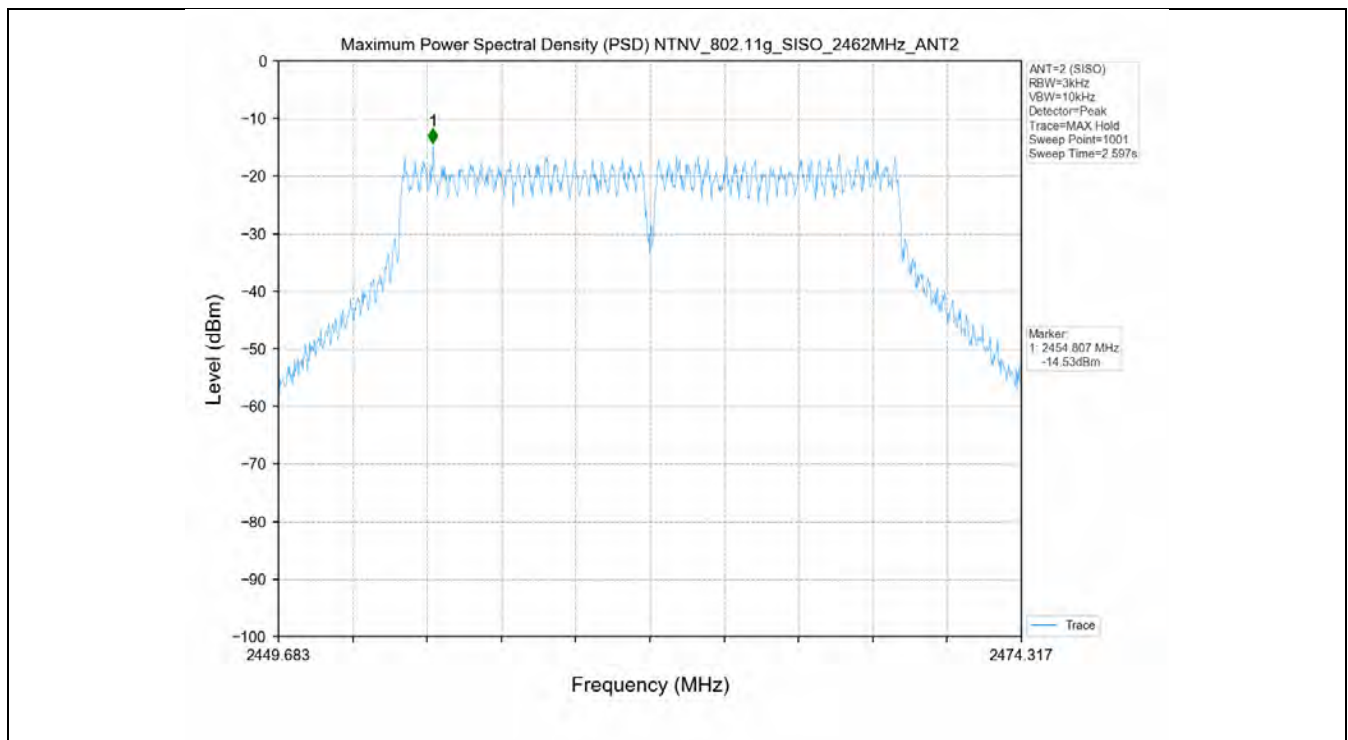
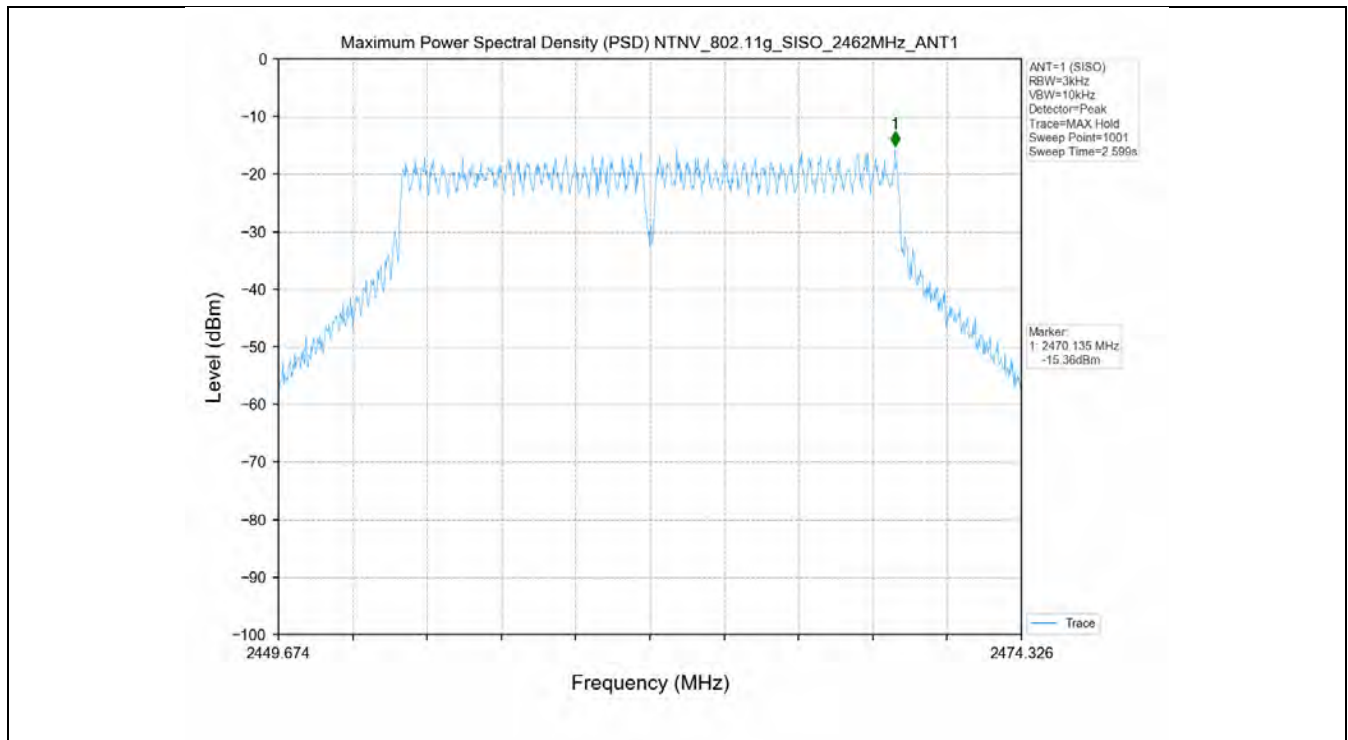


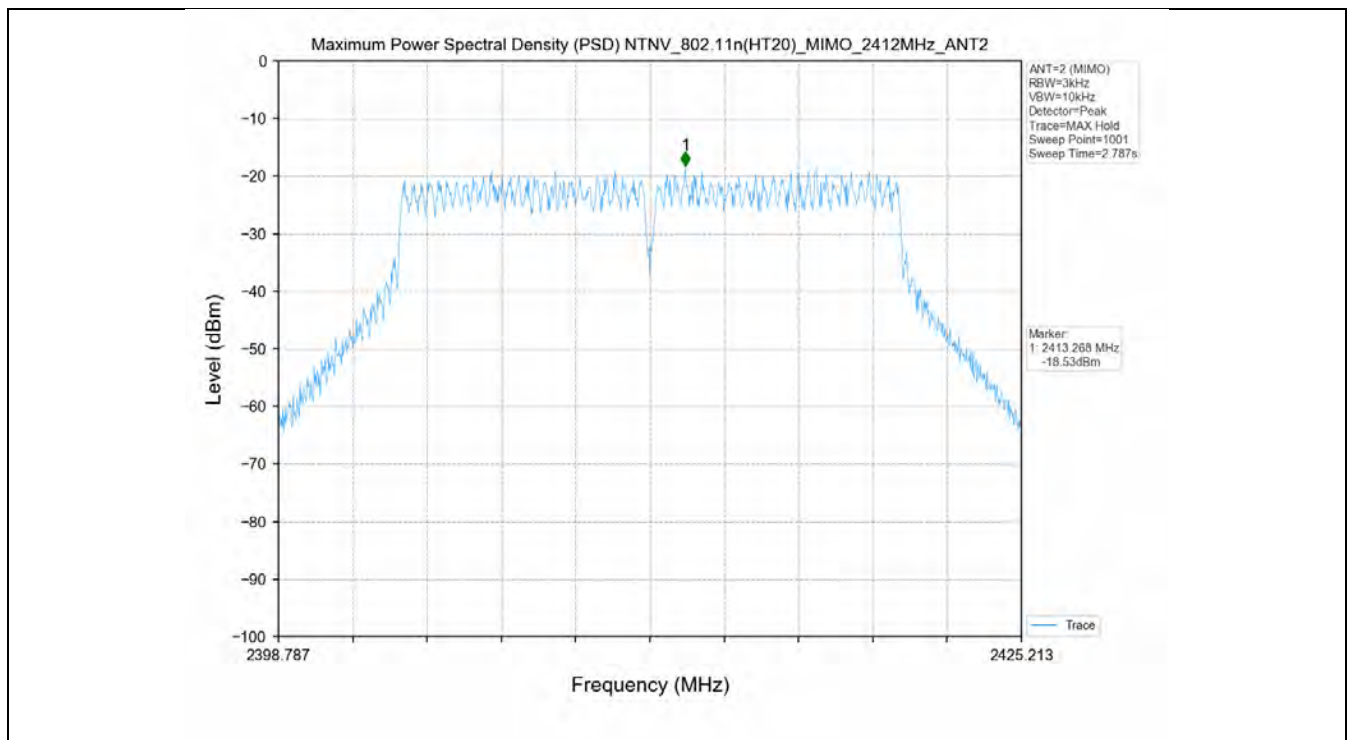
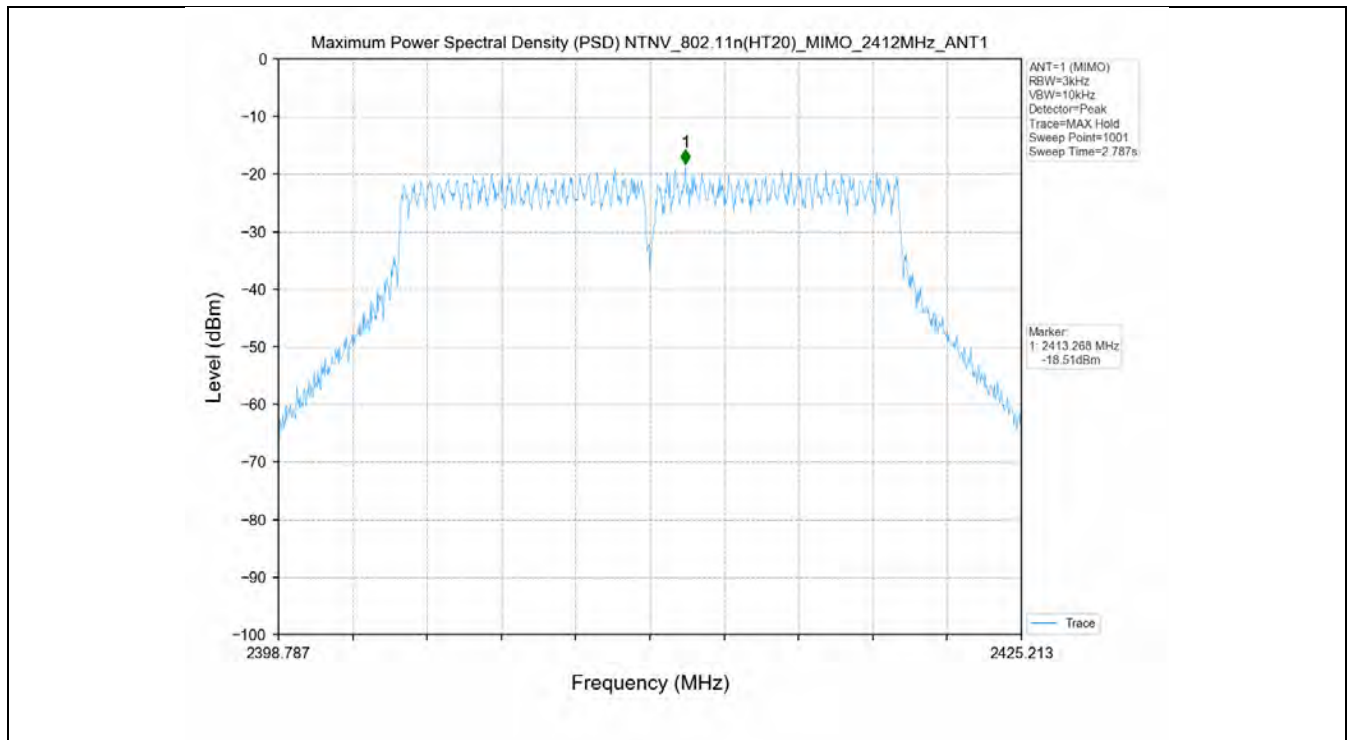


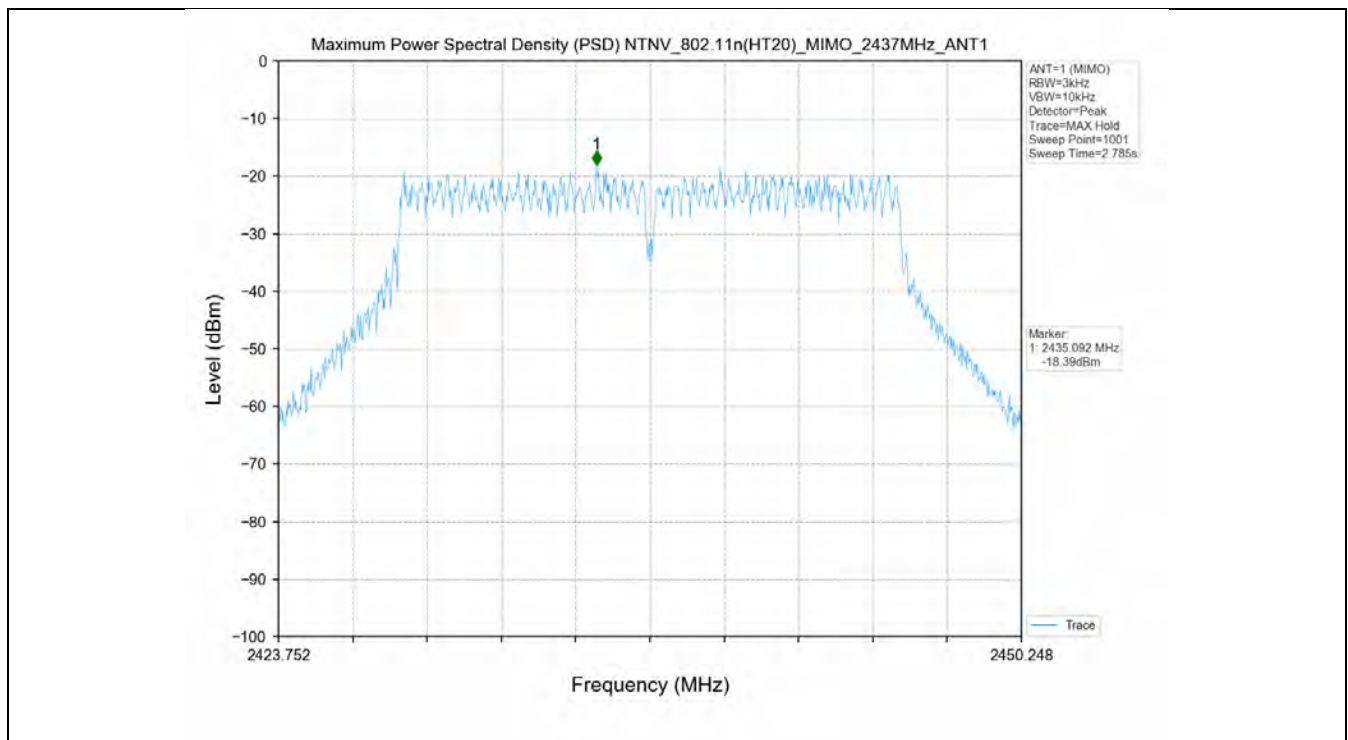
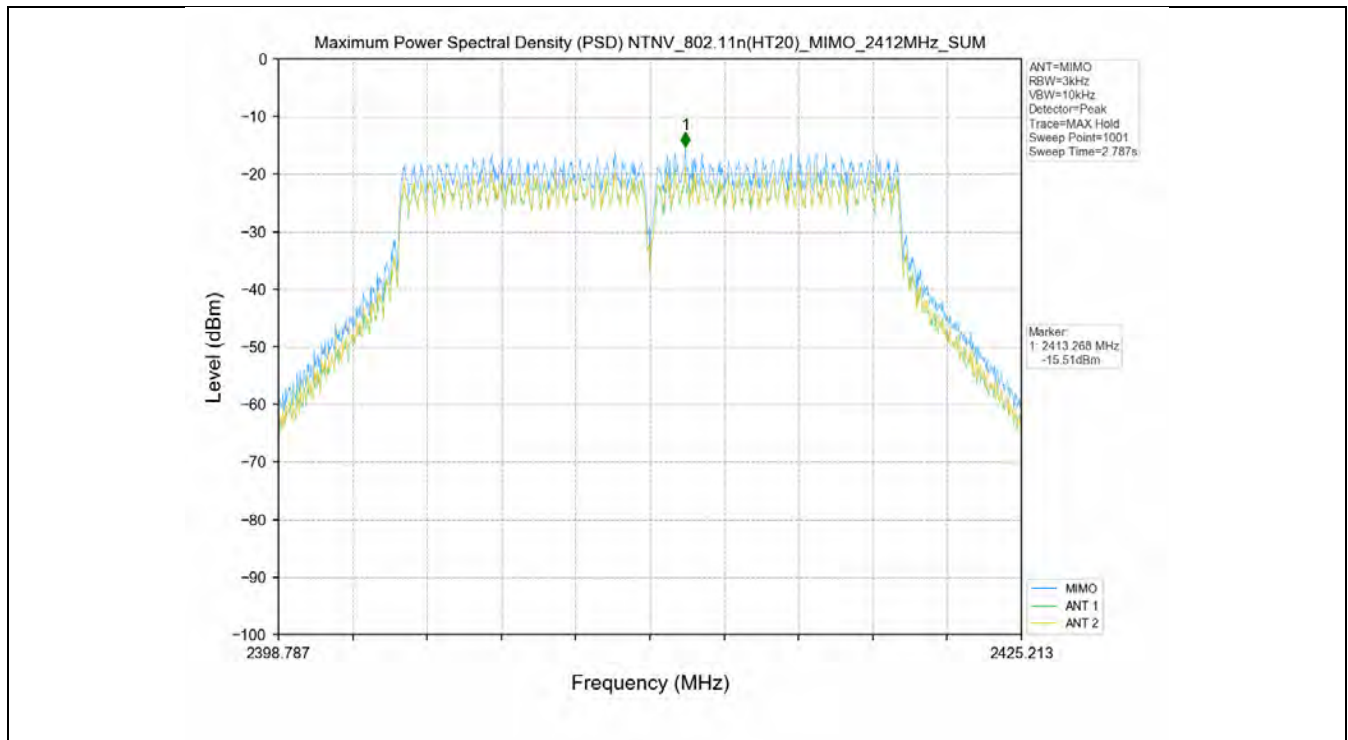


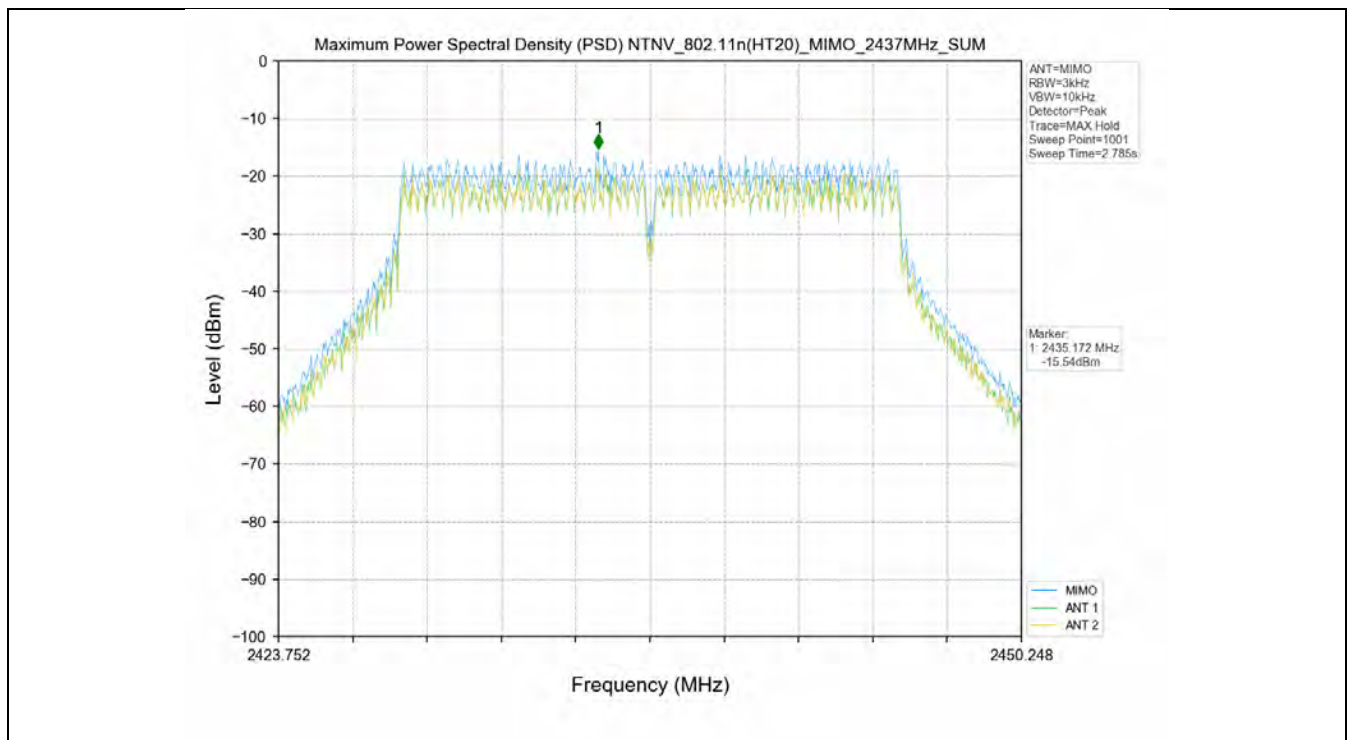
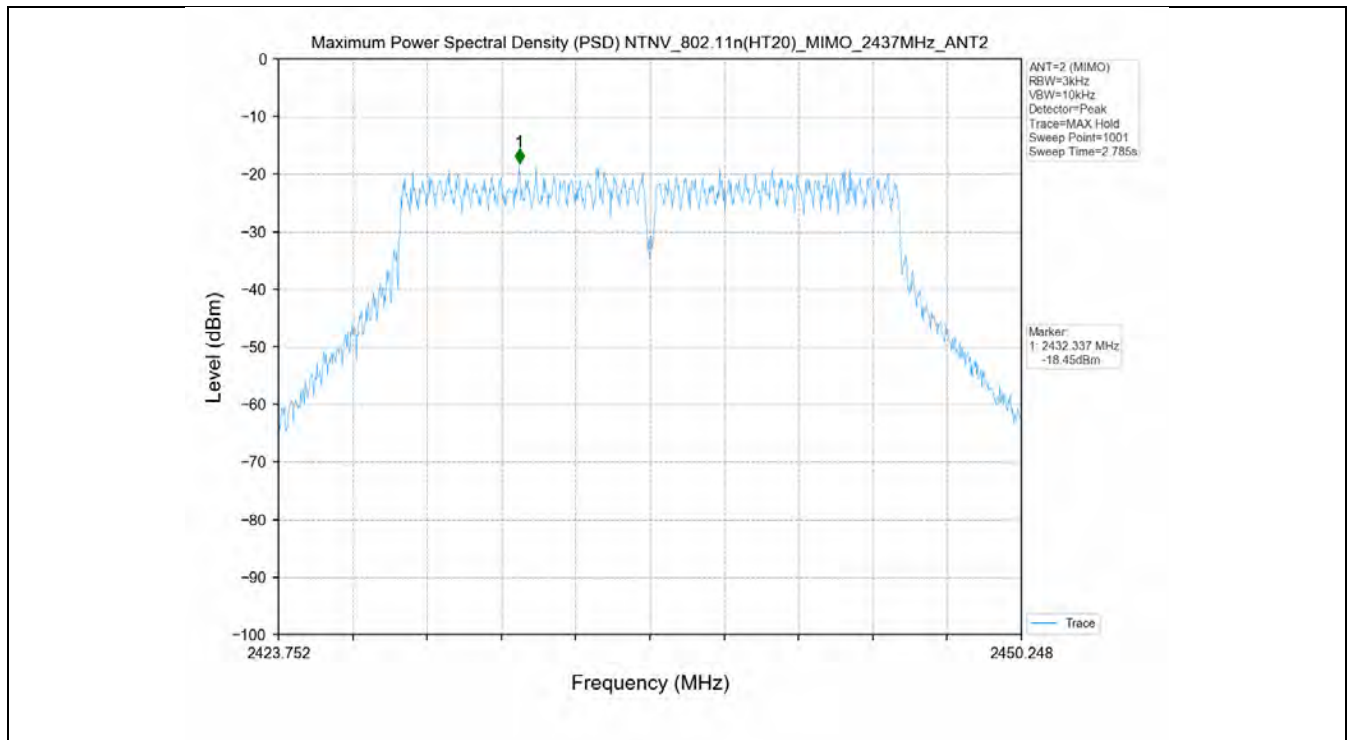


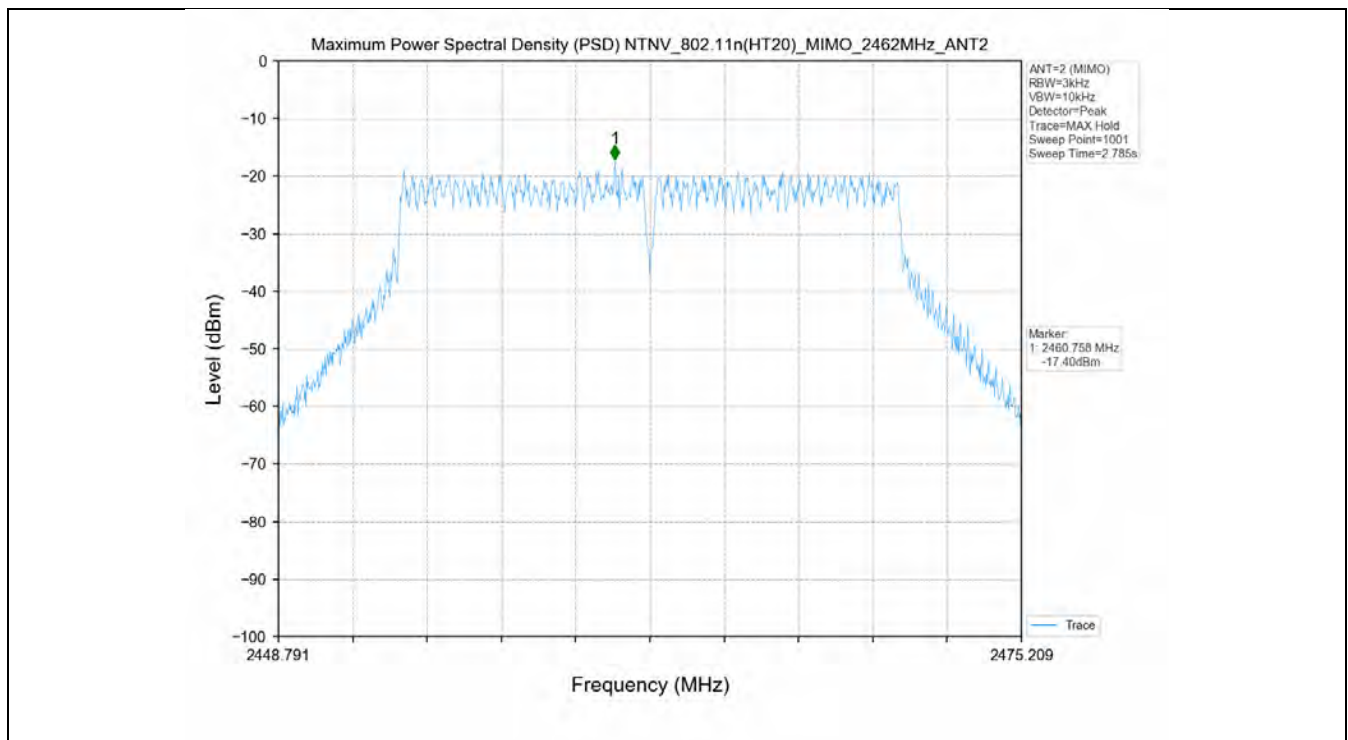
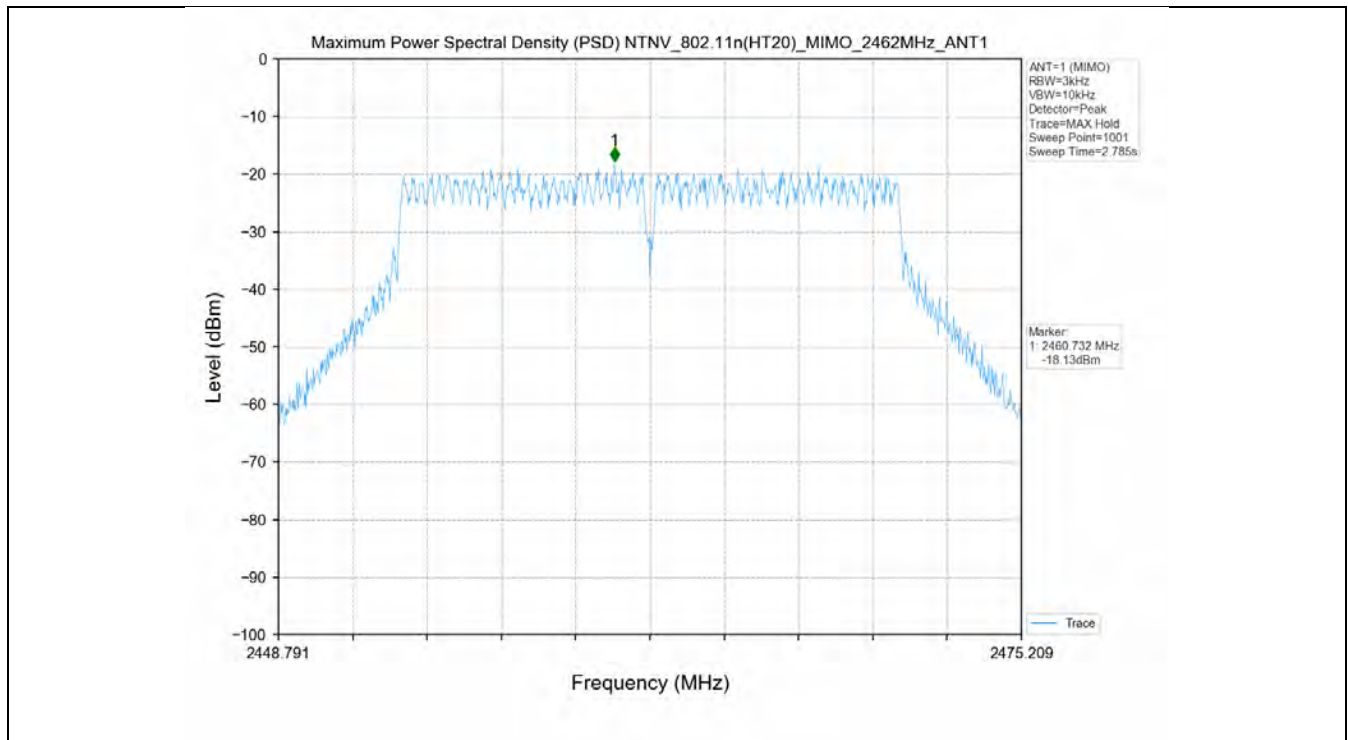


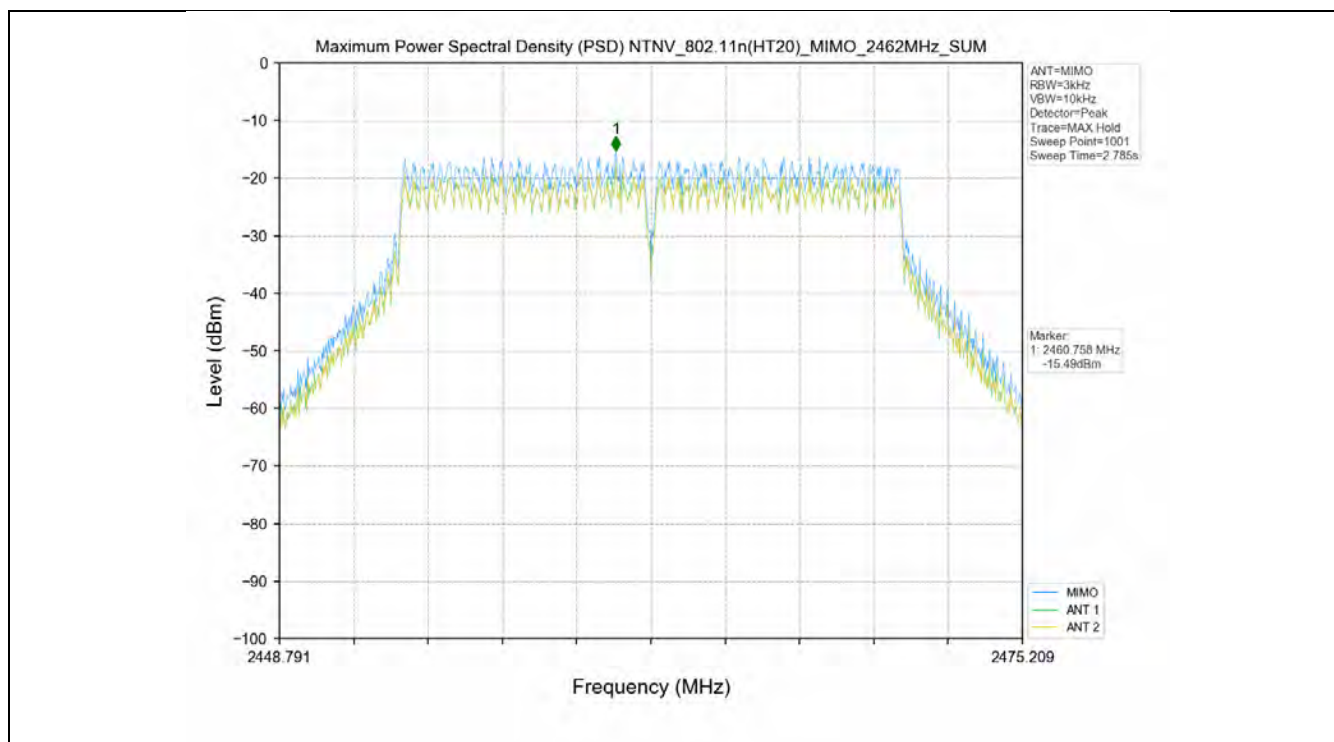












5. Unwanted Emissions in Non-restricted Frequency Bands

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	-12.64	PASS
			2	Refer to test graph	-12.64	PASS
	2437	SISO	1	Refer to test graph	-12.64	PASS
			2	Refer to test graph	-12.64	PASS
	2462	SISO	1	Refer to test graph	-12.64	PASS
			2	Refer to test graph	-12.64	PASS
802.11g	2412	SISO	1	Refer to test graph	-21.18	PASS
			2	Refer to test graph	-21.18	PASS
	2437	SISO	1	Refer to test graph	-21.18	PASS
			2	Refer to test graph	-21.18	PASS
	2462	SISO	1	Refer to test graph	-21.18	PASS
			2	Refer to test graph	-21.18	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-23.88	PASS
			2	Refer to test graph	-23.88	PASS
	2437	MIMO	1	Refer to test graph	-23.88	PASS
			2	Refer to test graph	-23.88	PASS
	2462	MIMO	1	Refer to test graph	-23.88	PASS
			2	Refer to test graph	-23.88	PASS

5.2 Test Graph

