



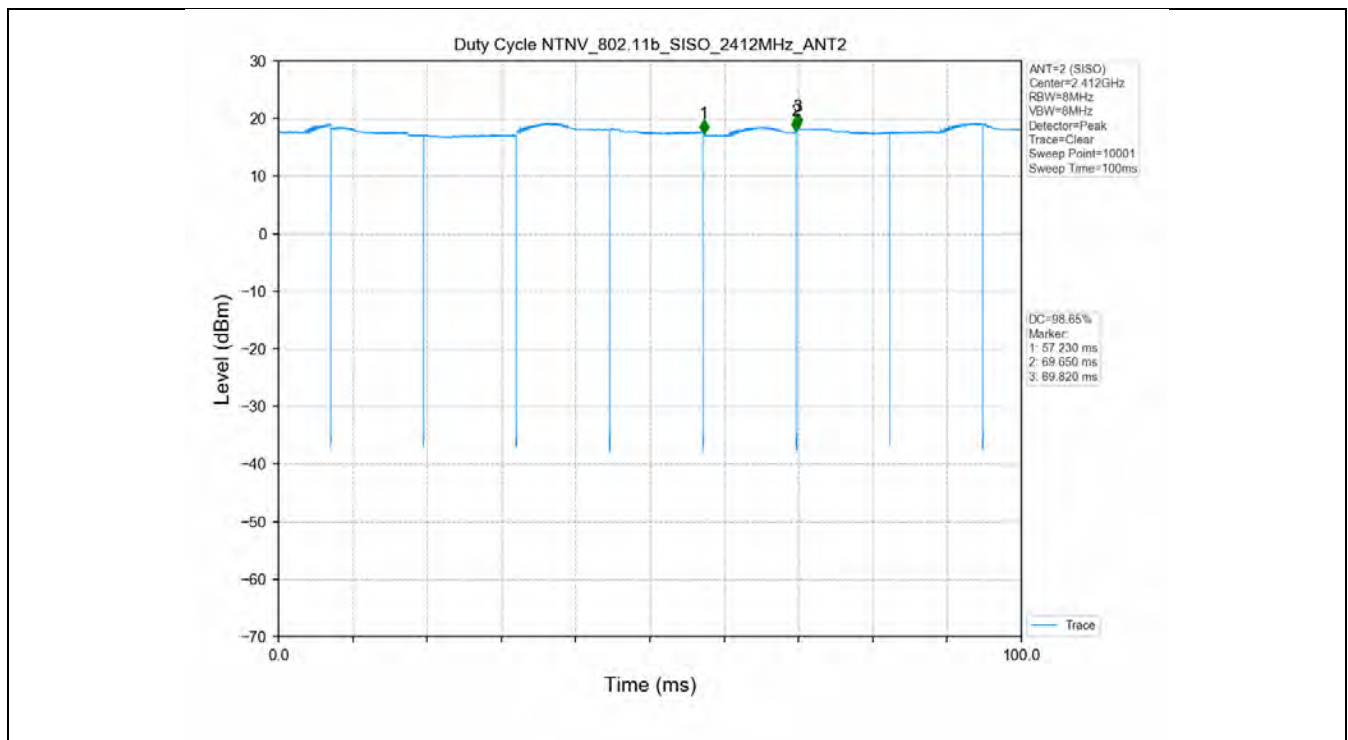
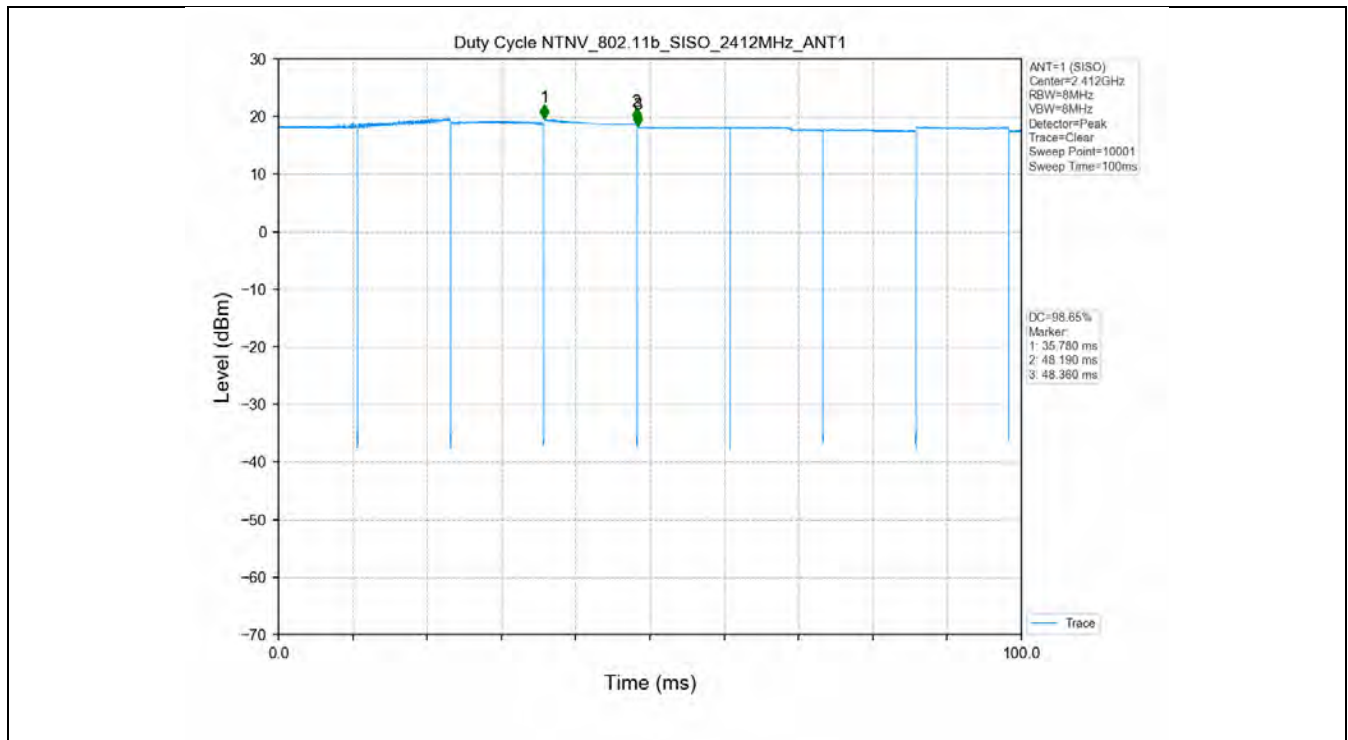
Appendix A for SHEM200800684601

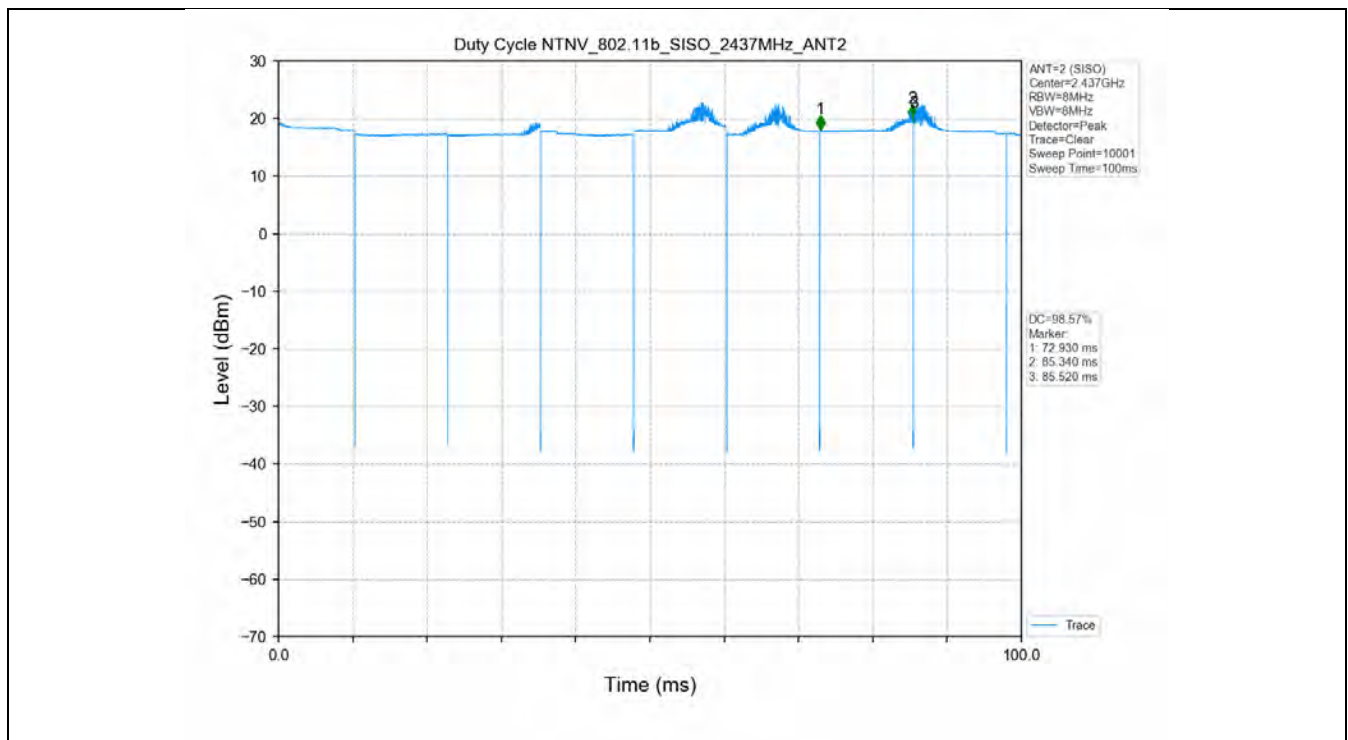
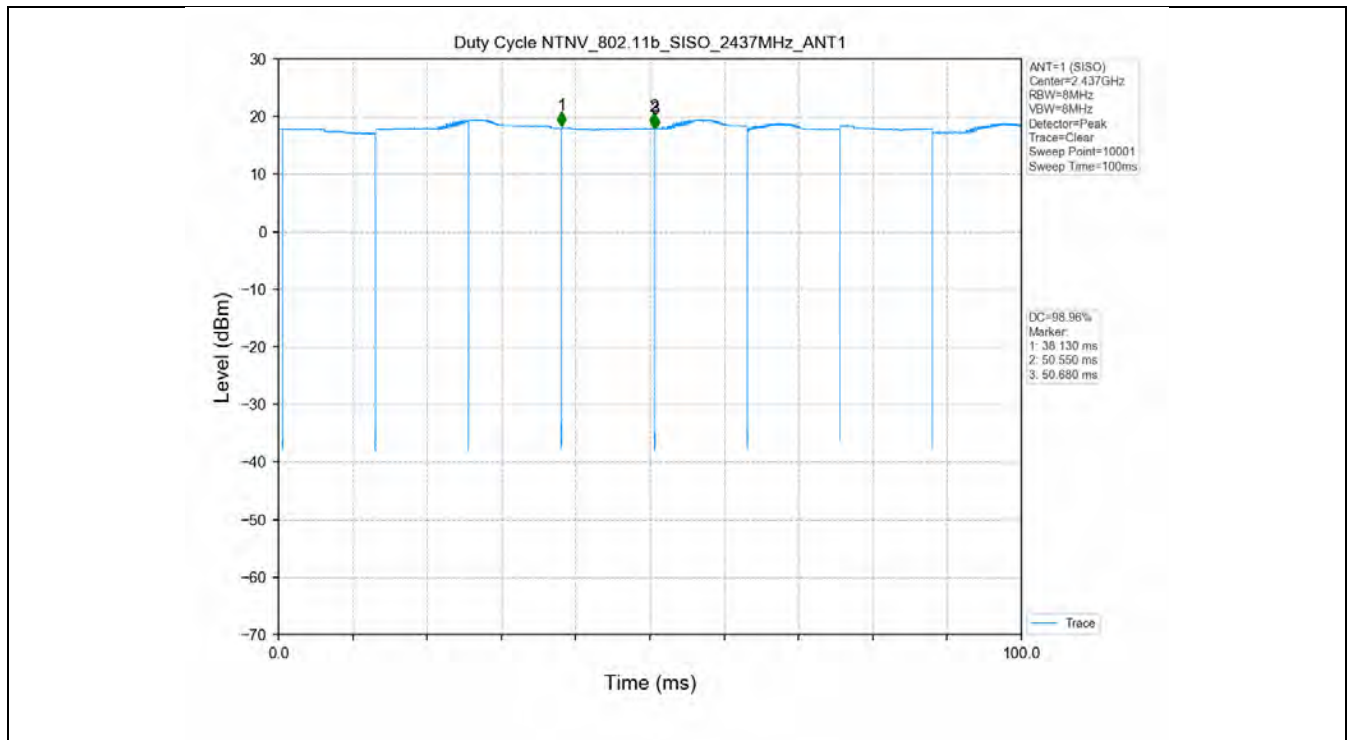
1. Duty Cycle

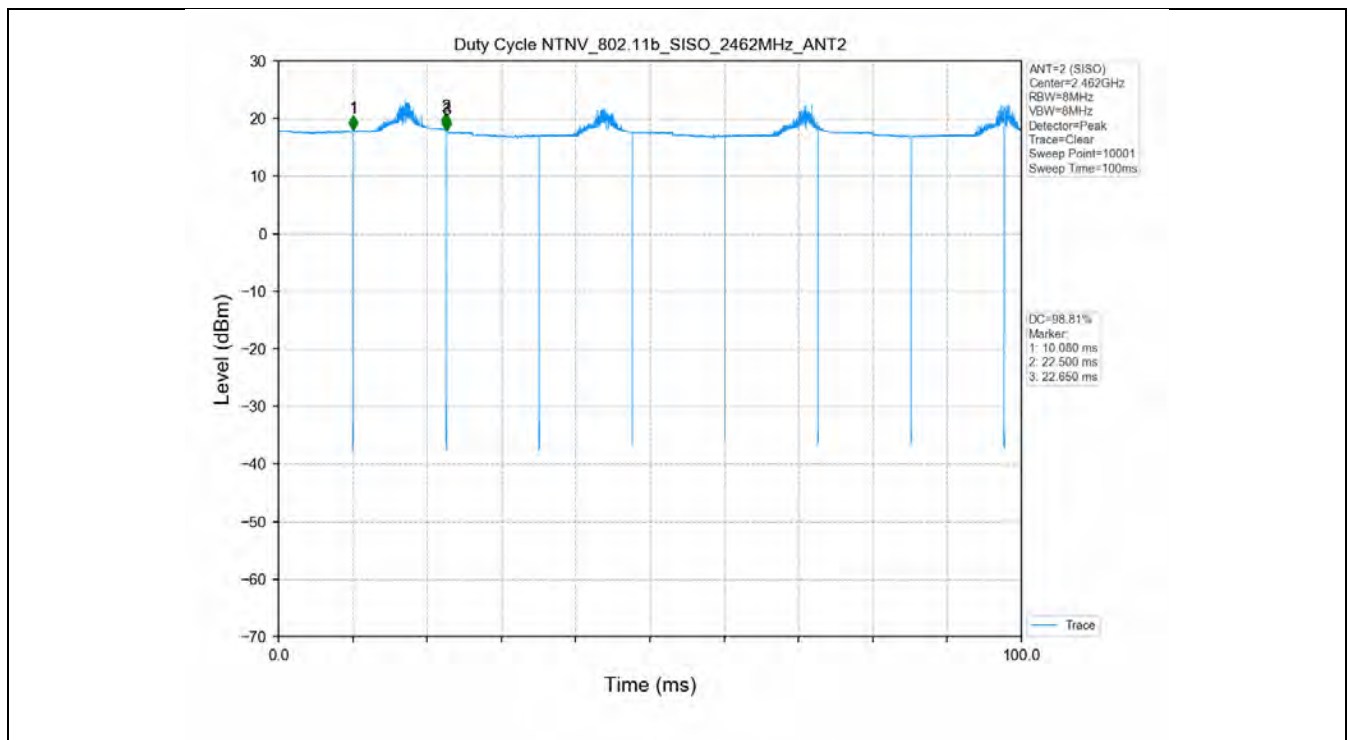
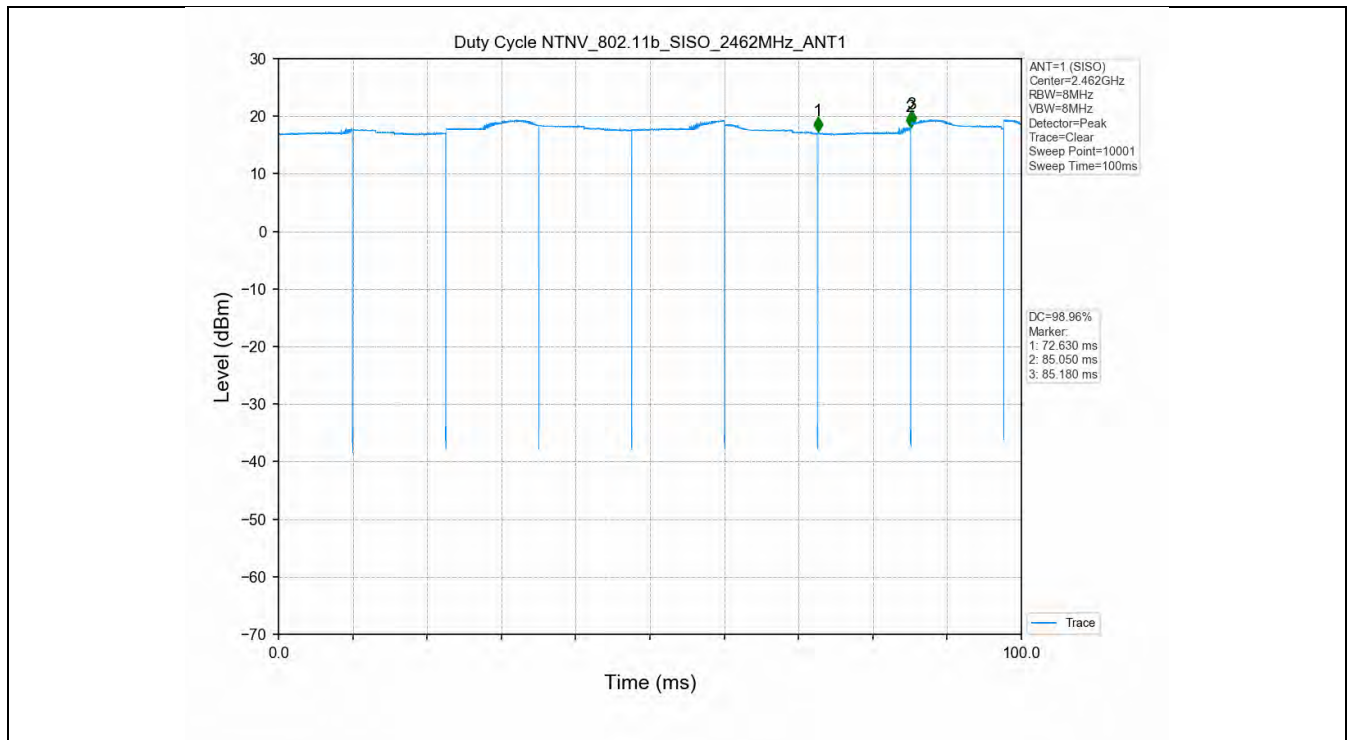
1.1 Test Result

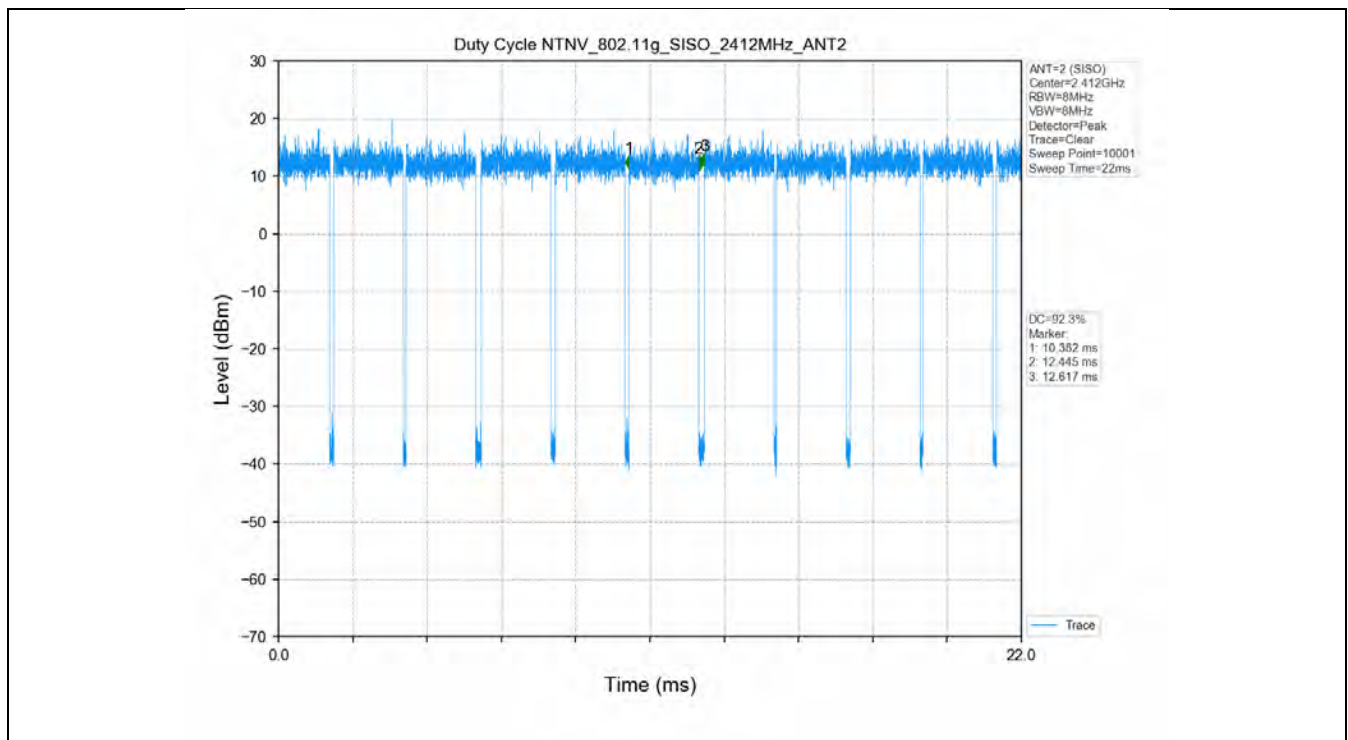
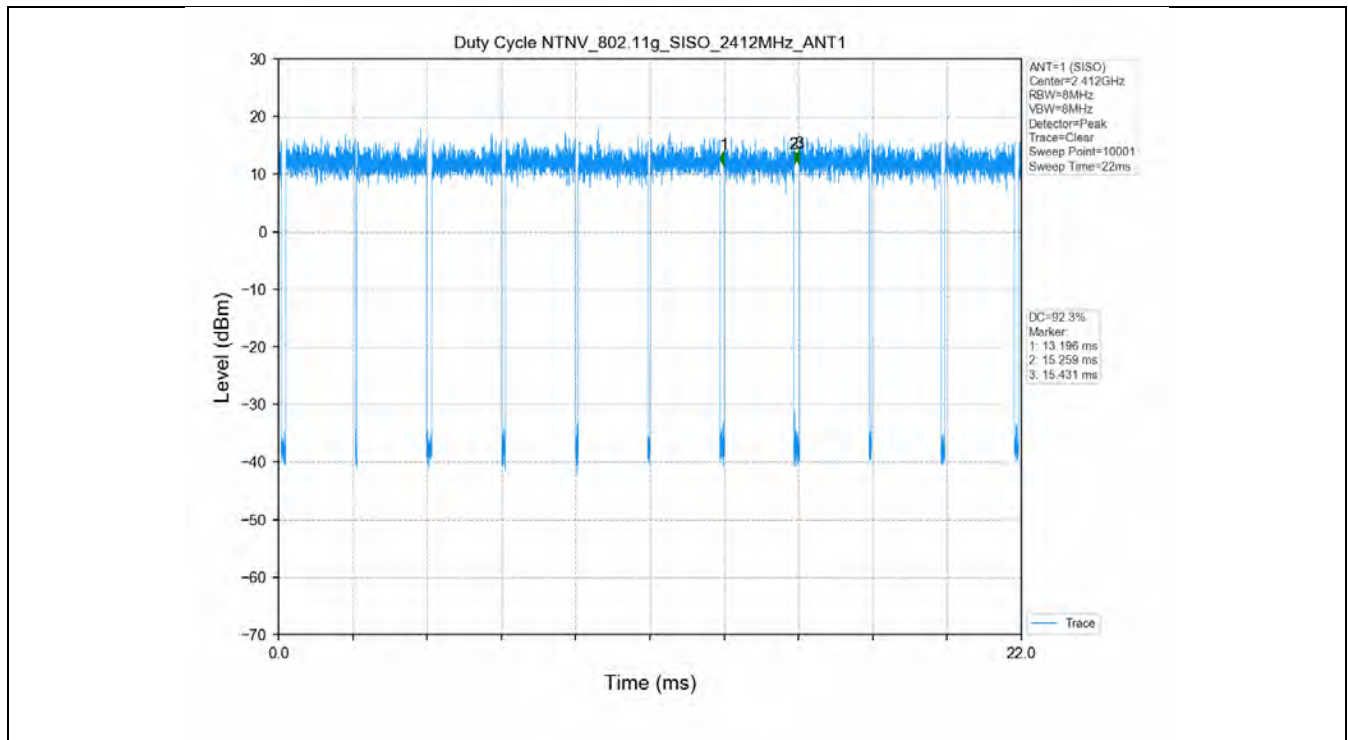
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.410	12.580	98.65	0.06
			2	12.420	12.590	98.65	0.06
	2437	SISO	1	12.420	12.550	98.96	0.05
			2	12.410	12.590	98.57	0.06
	2462	SISO	1	12.420	12.550	98.96	0.05
			2	12.420	12.570	98.81	0.05
802.11g	2412	SISO	1	2.063	2.235	92.30	0.35
			2	2.063	2.235	92.30	0.35
	2437	SISO	1	2.064	2.235	92.35	0.35
			2	2.035	2.194	92.75	0.33
	2462	SISO	1	2.034	2.185	93.09	0.31
			2	2.033	2.185	93.04	0.31
802.11n(HT20)	2412	MIMO	1	1.892	2.055	92.07	0.36
			2	1.896	2.066	91.77	0.37
	2437	MIMO	1	1.888	2.050	92.10	0.36
			2	1.888	2.047	92.23	0.35
	2462	MIMO	1	1.890	2.022	93.47	0.29
			2	1.919	2.083	92.13	0.36
802.11n(HT40)	2422	MIMO	1	0.920	1.086	84.71	0.72
			2	0.943	1.115	84.57	0.73
	2437	MIMO	1	0.944	1.114	84.74	0.72
			2	0.944	1.115	84.66	0.72
	2452	MIMO	1	0.917	1.083	84.67	0.72
			2	0.943	1.105	85.34	0.69

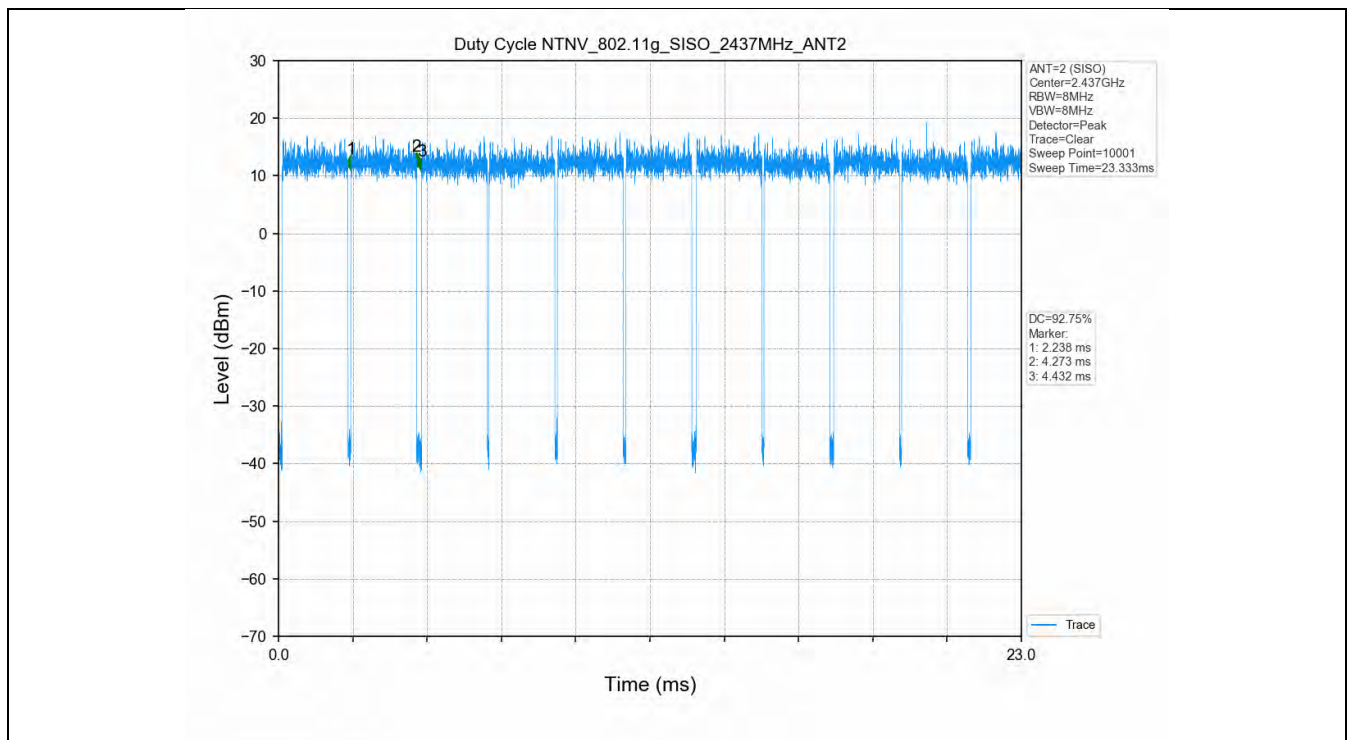
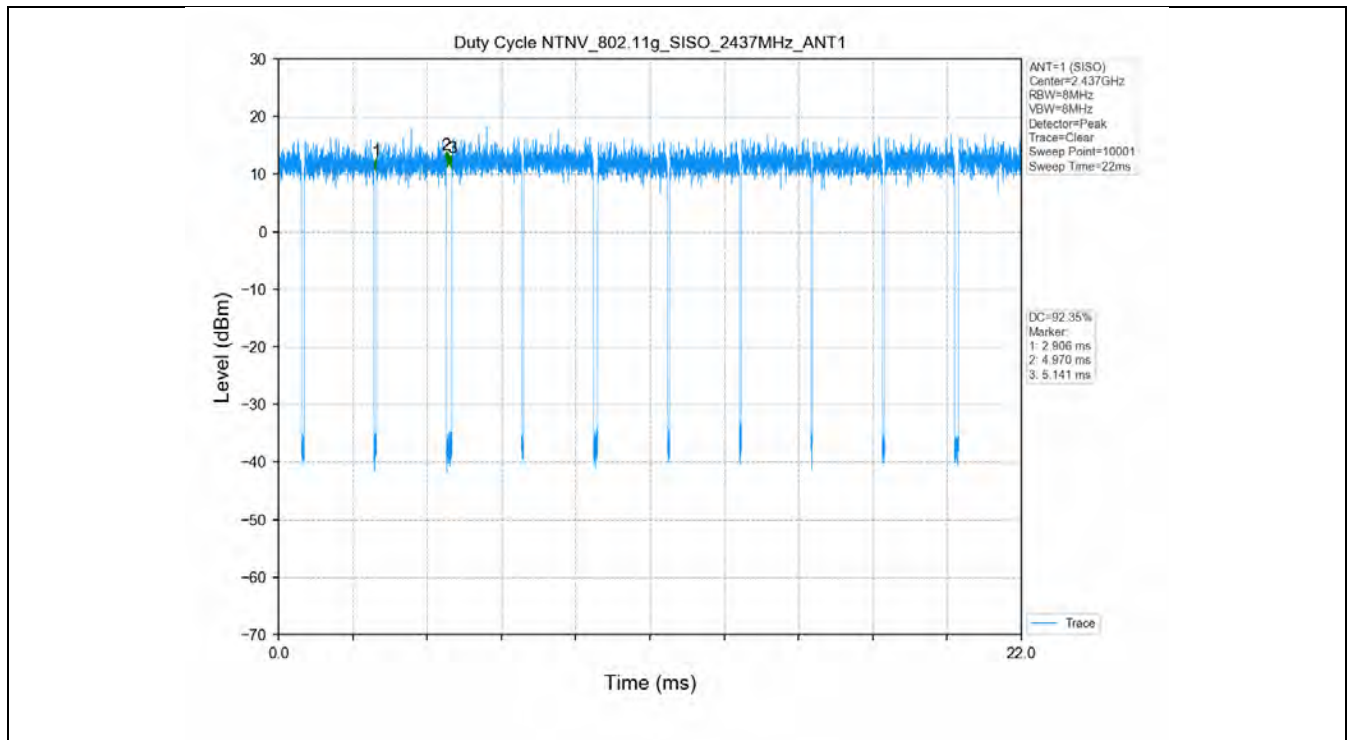
1.2 Test Graph

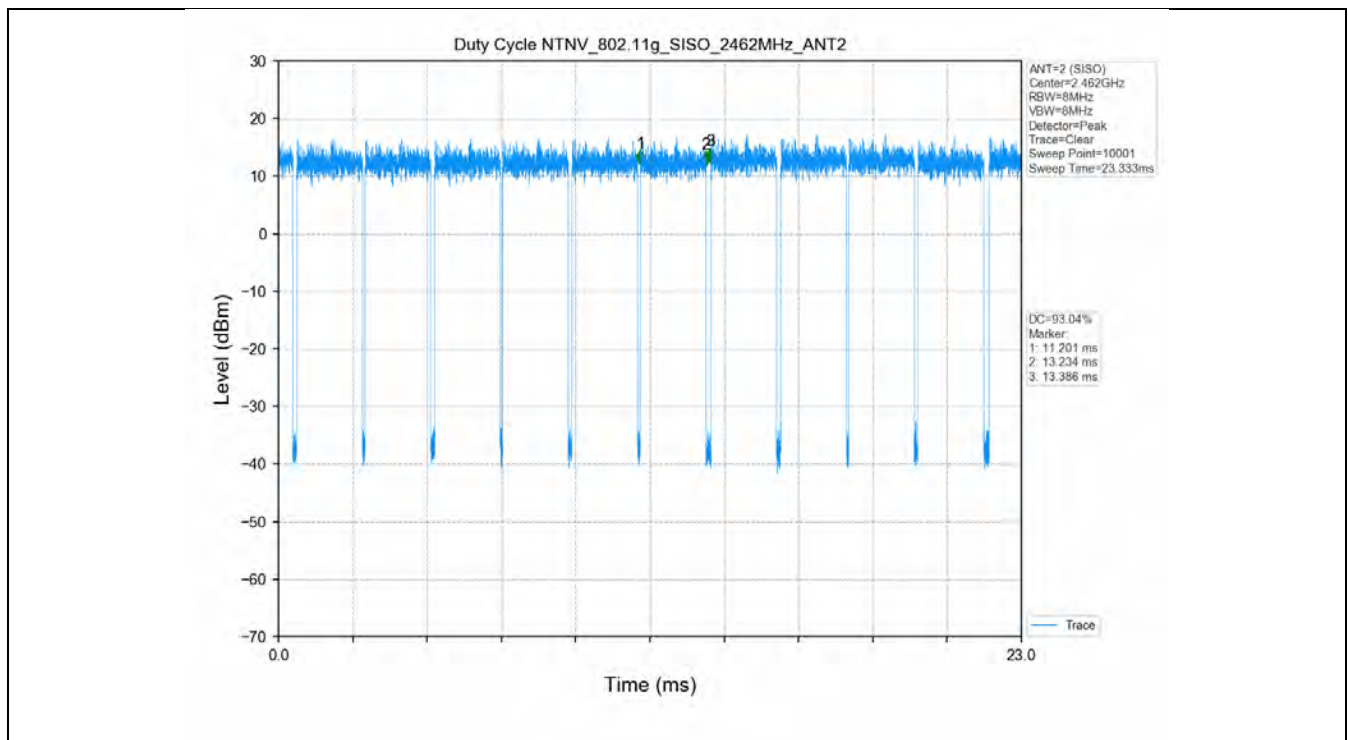
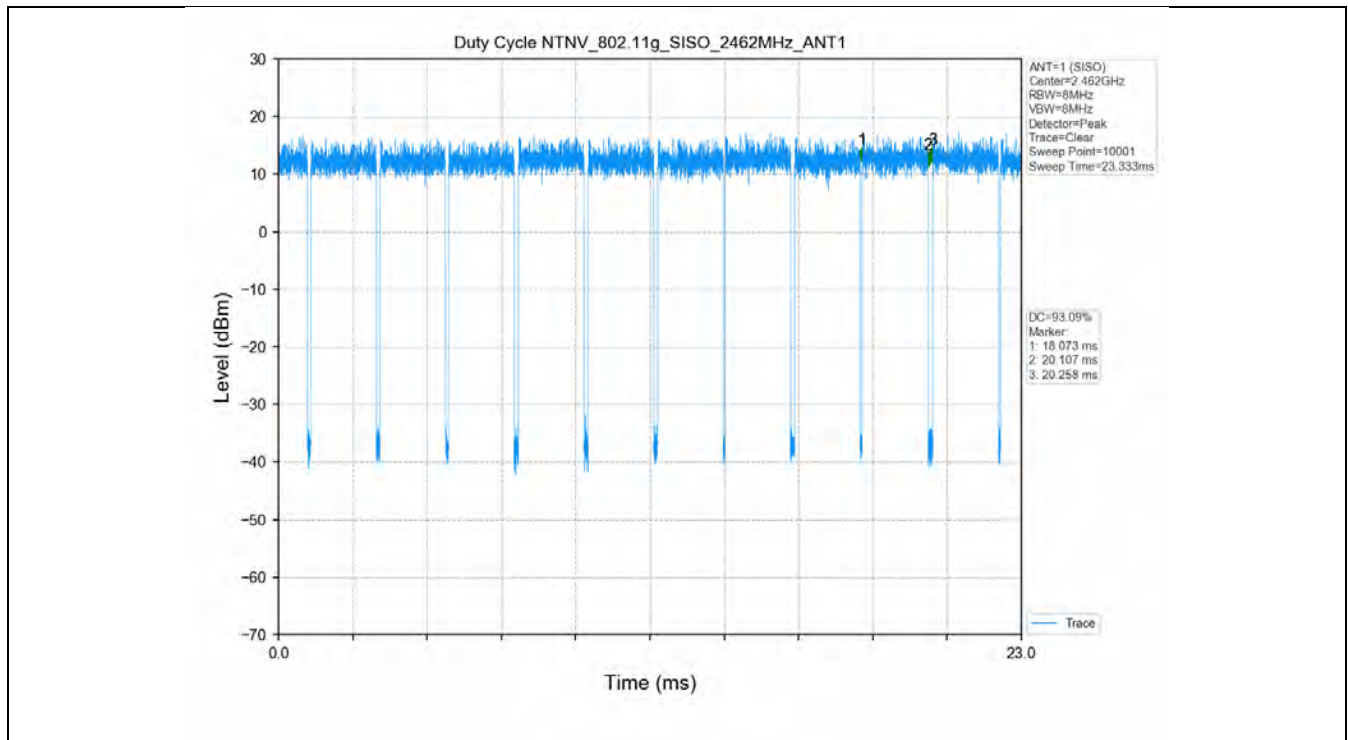


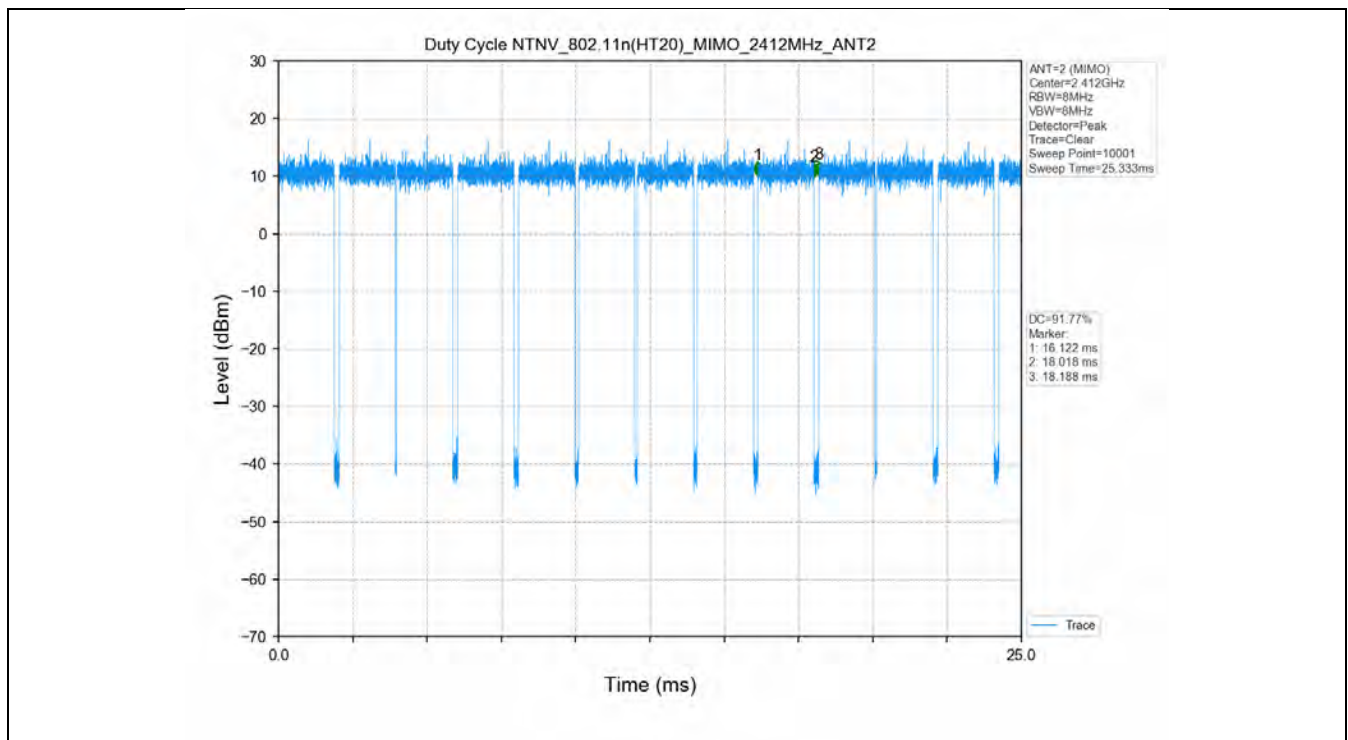
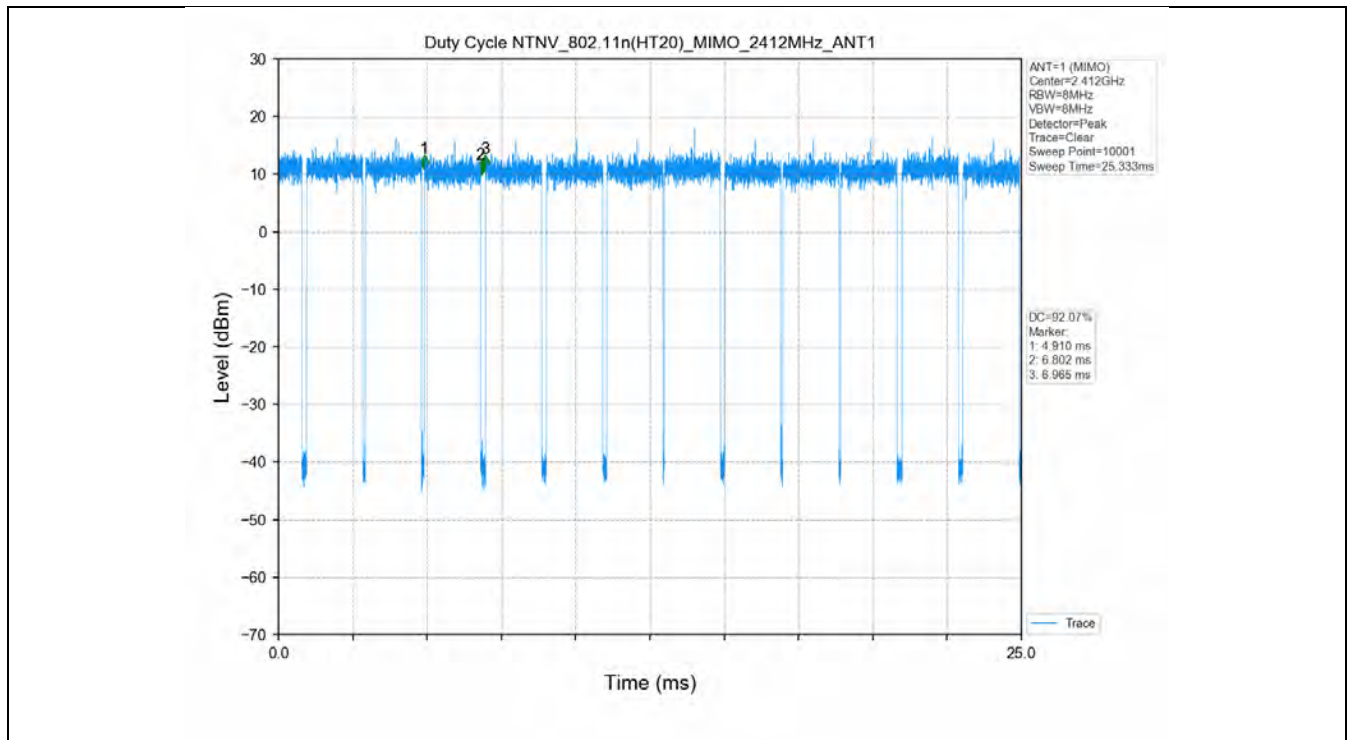


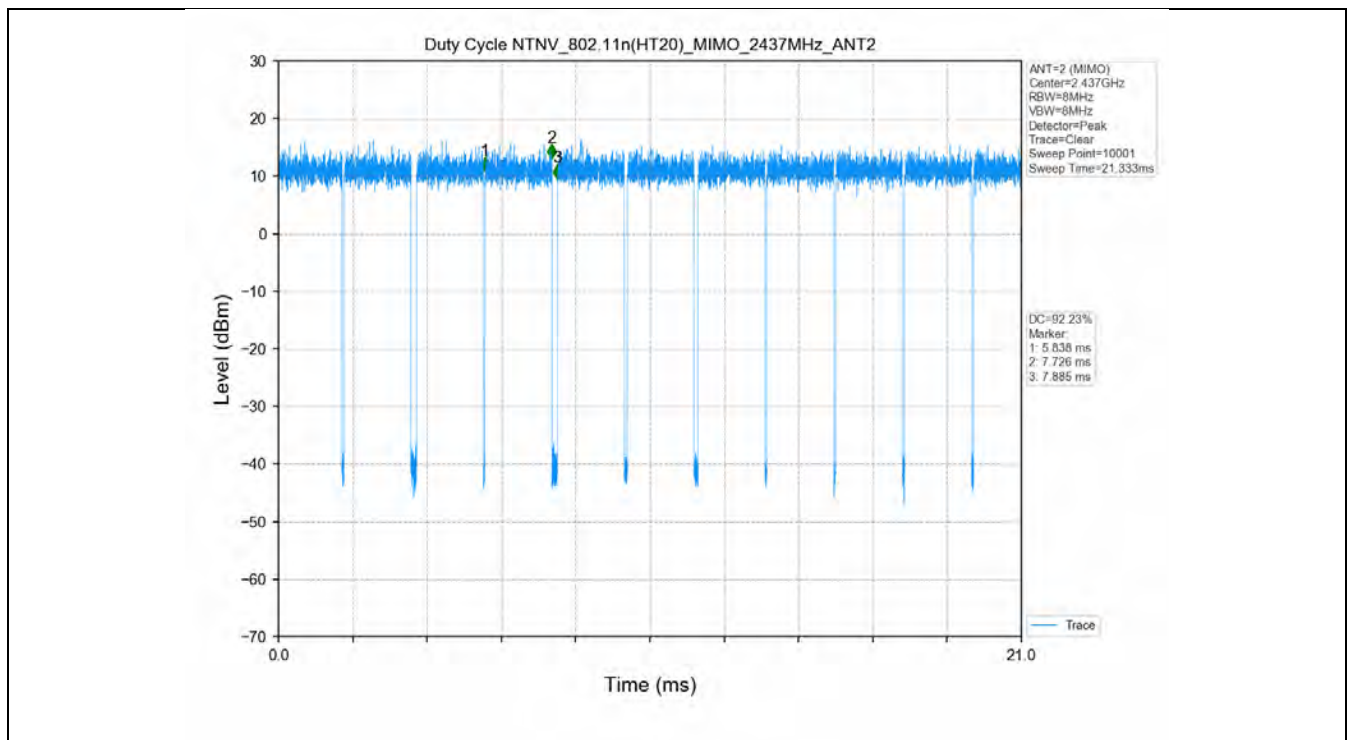
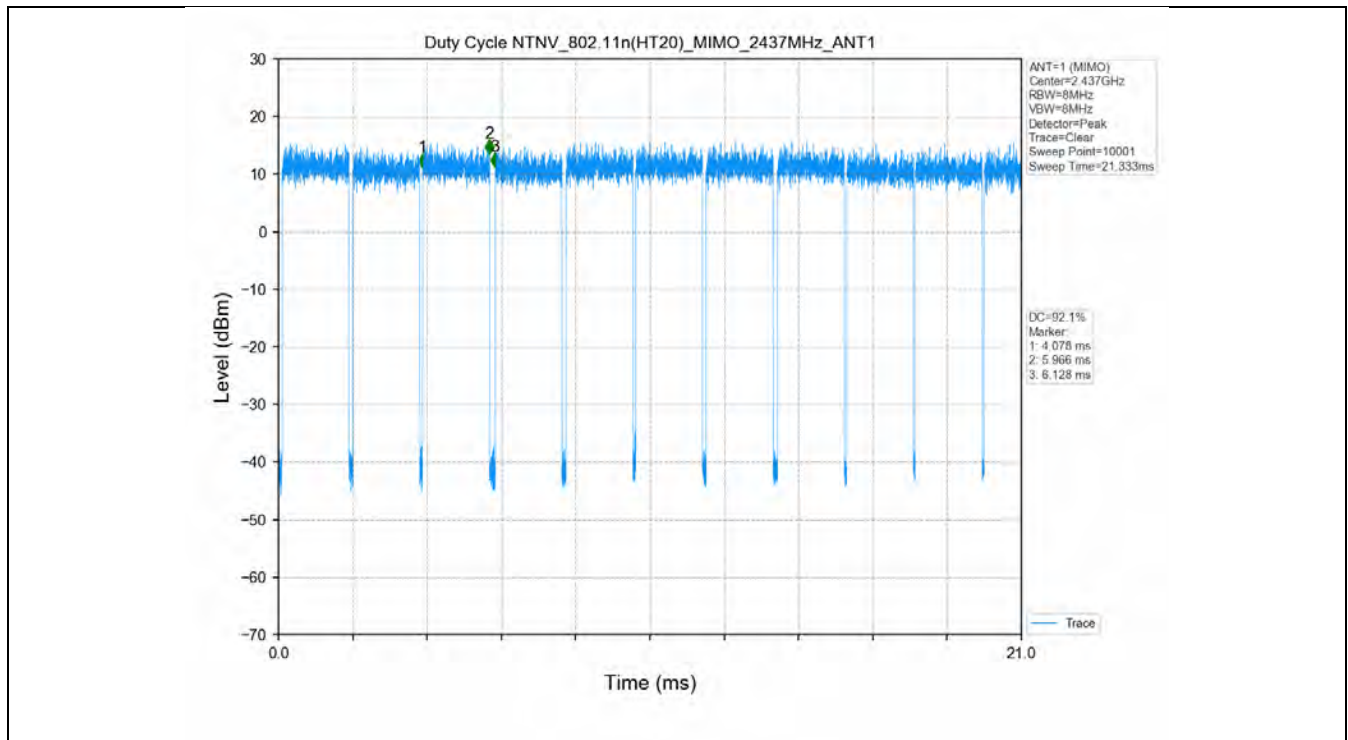


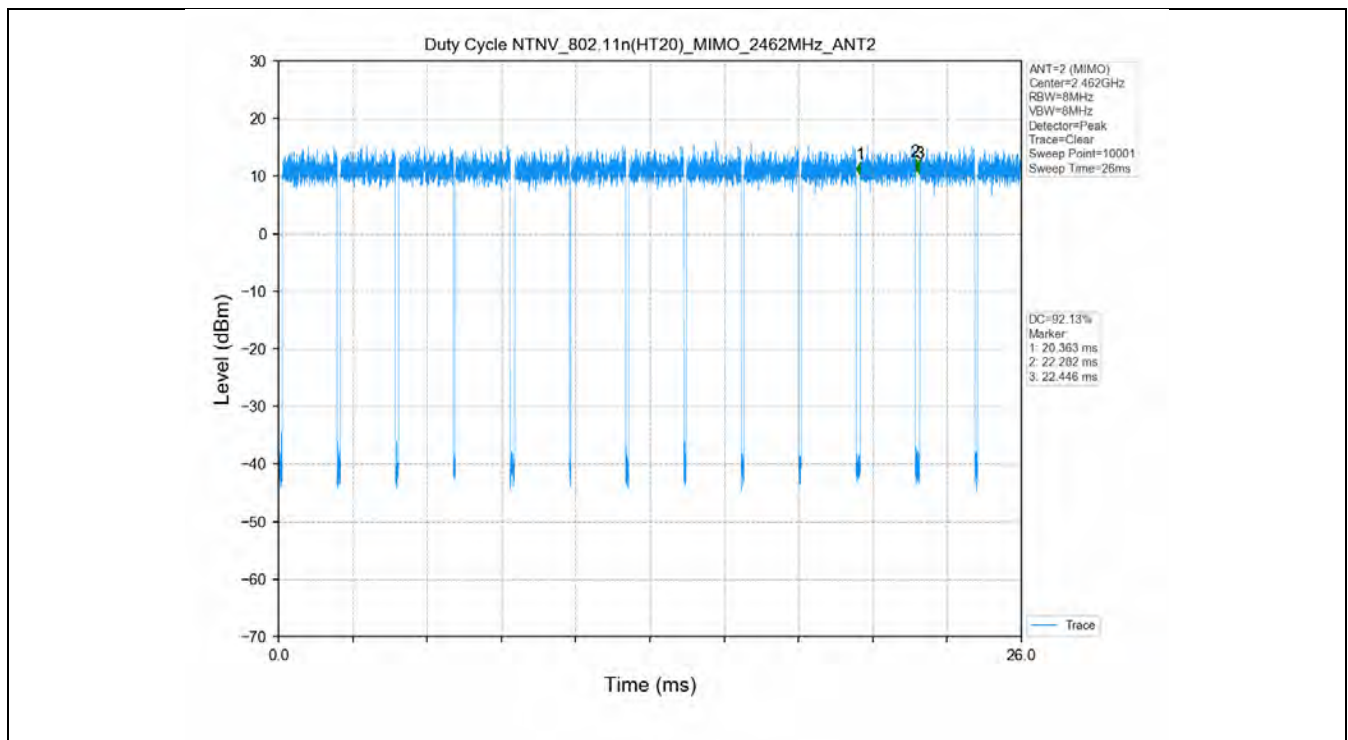
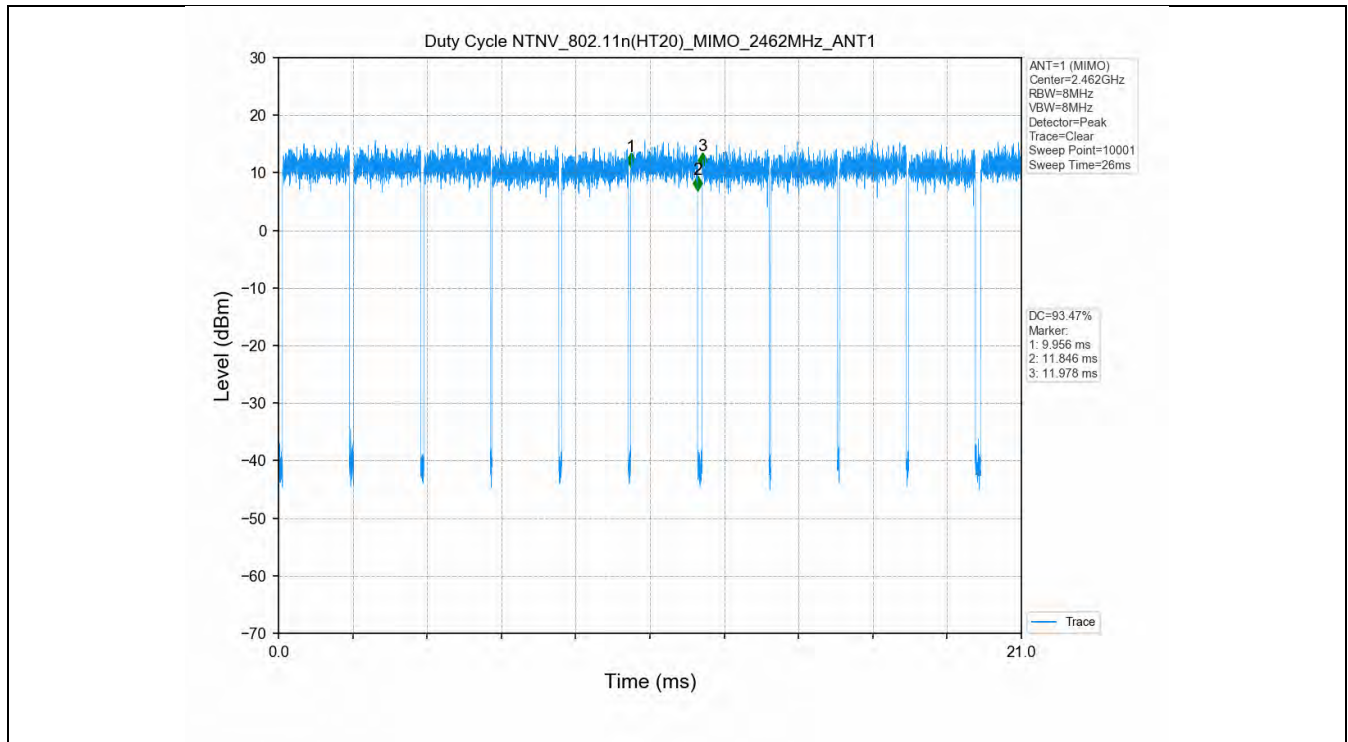


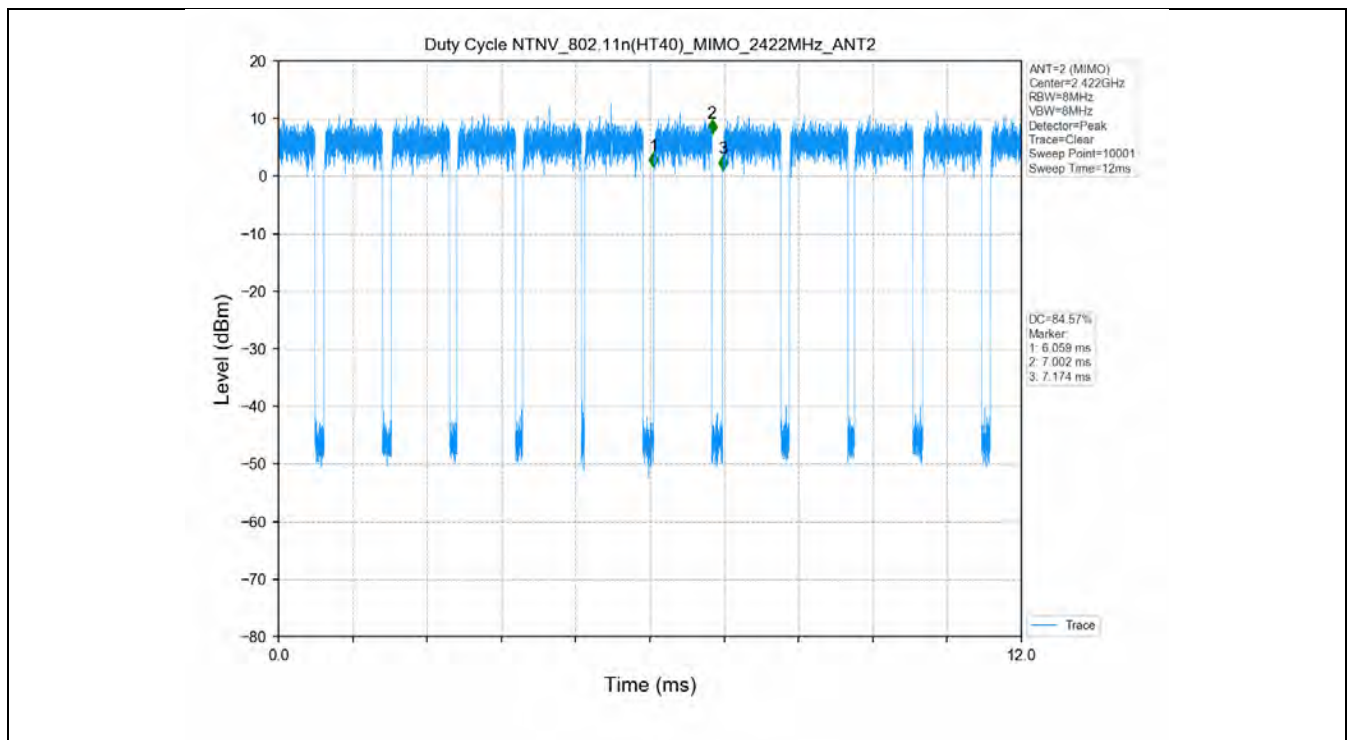
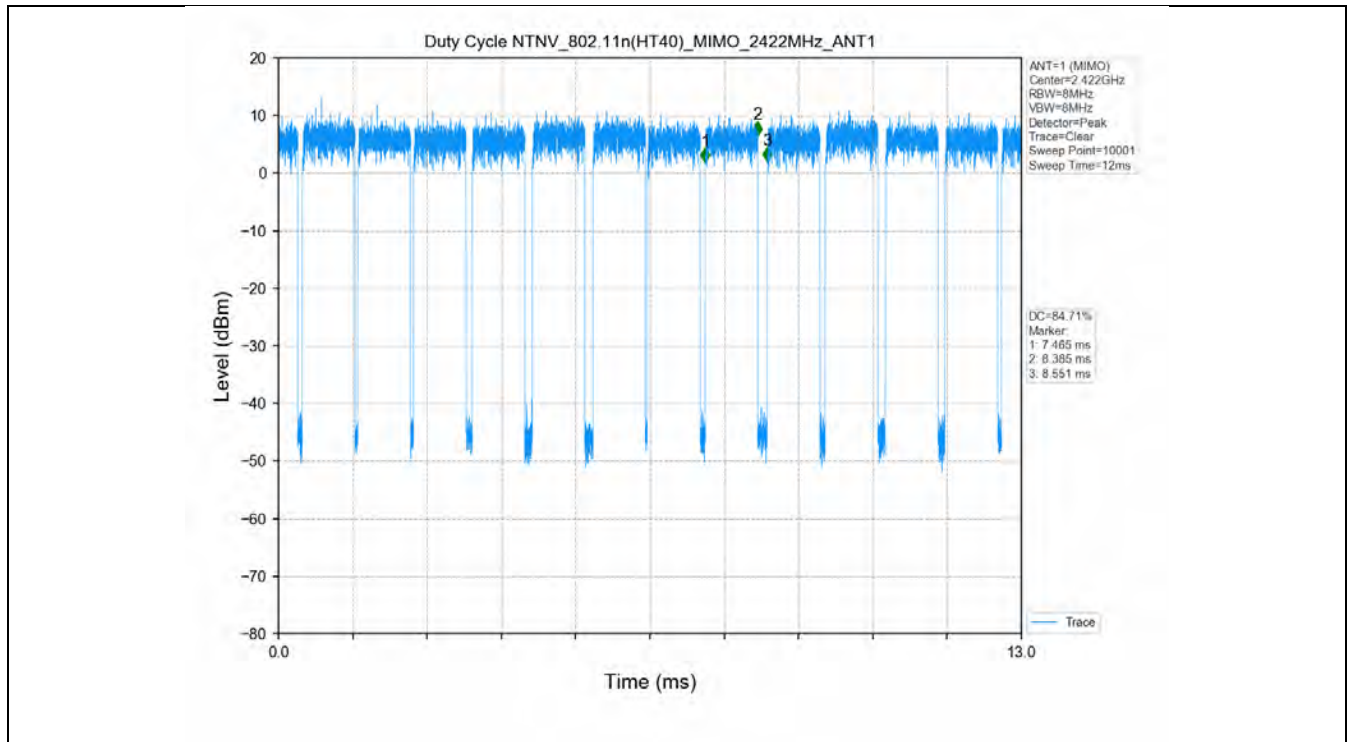


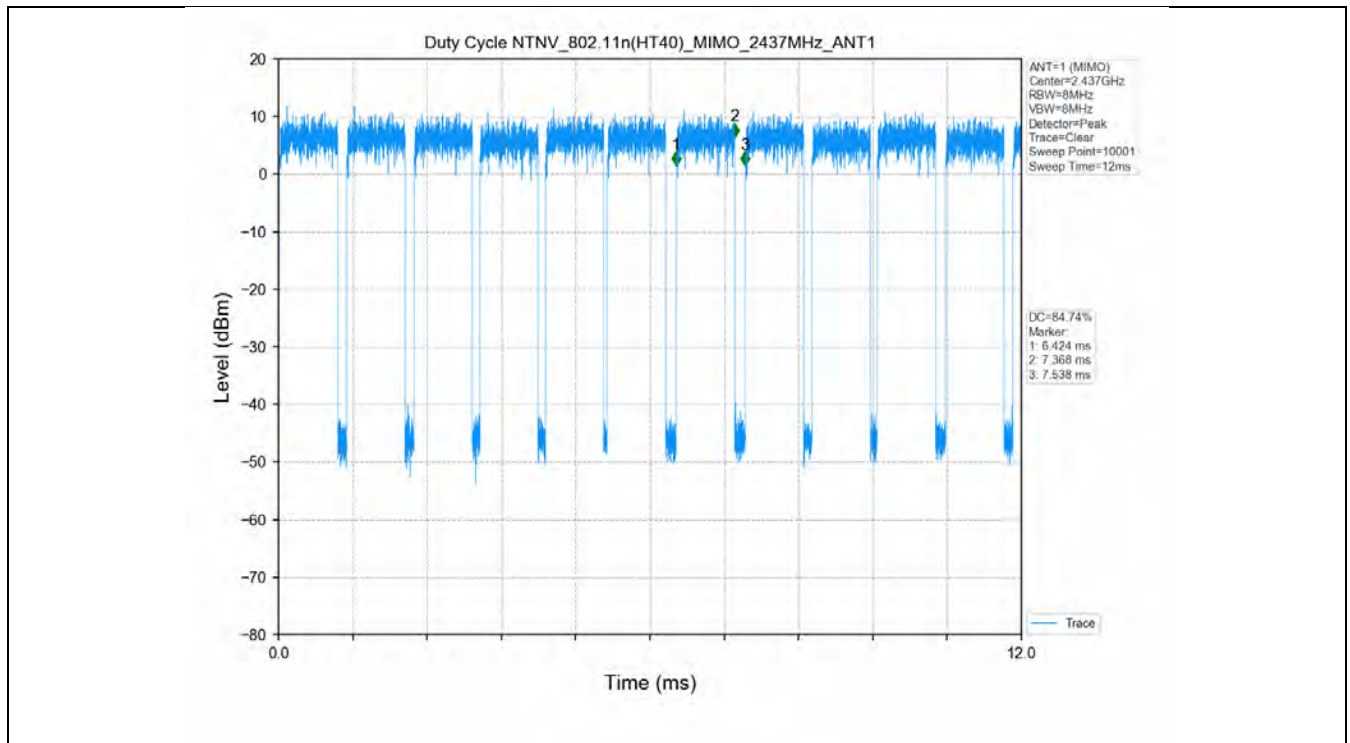


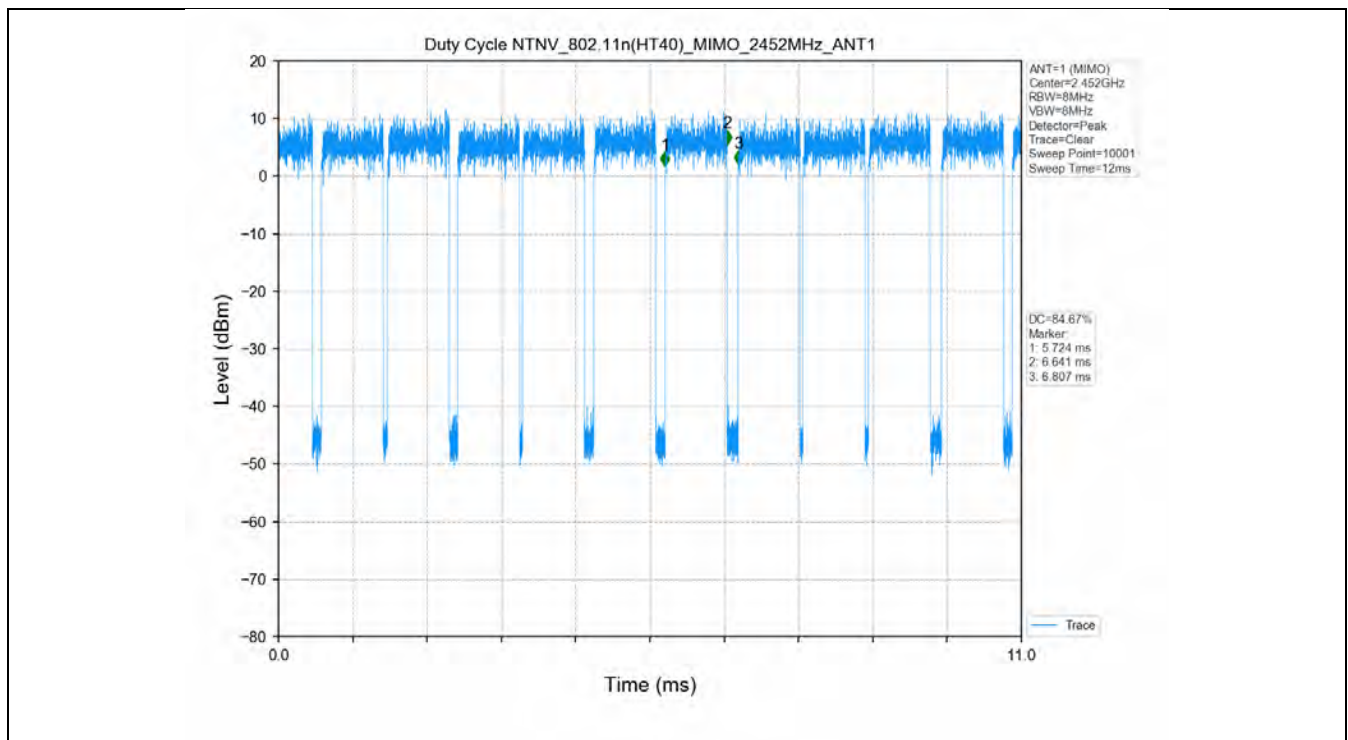
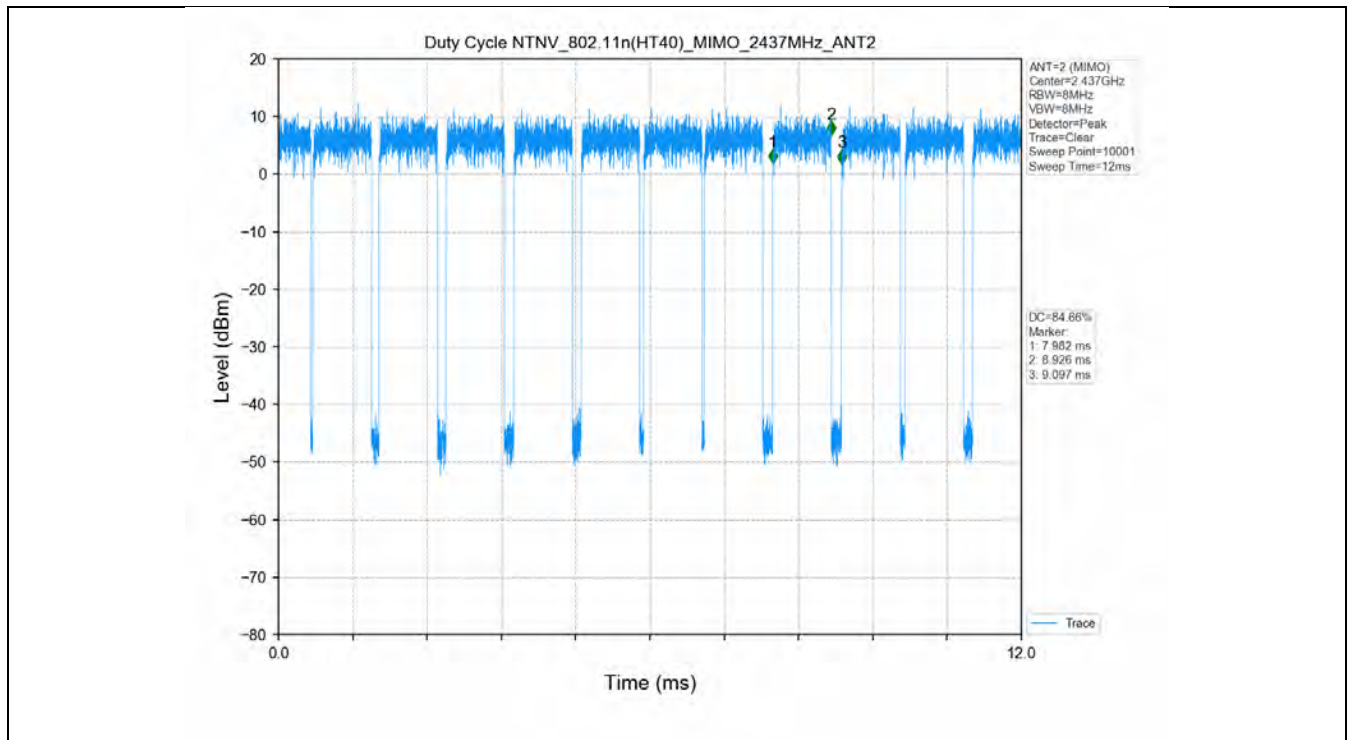


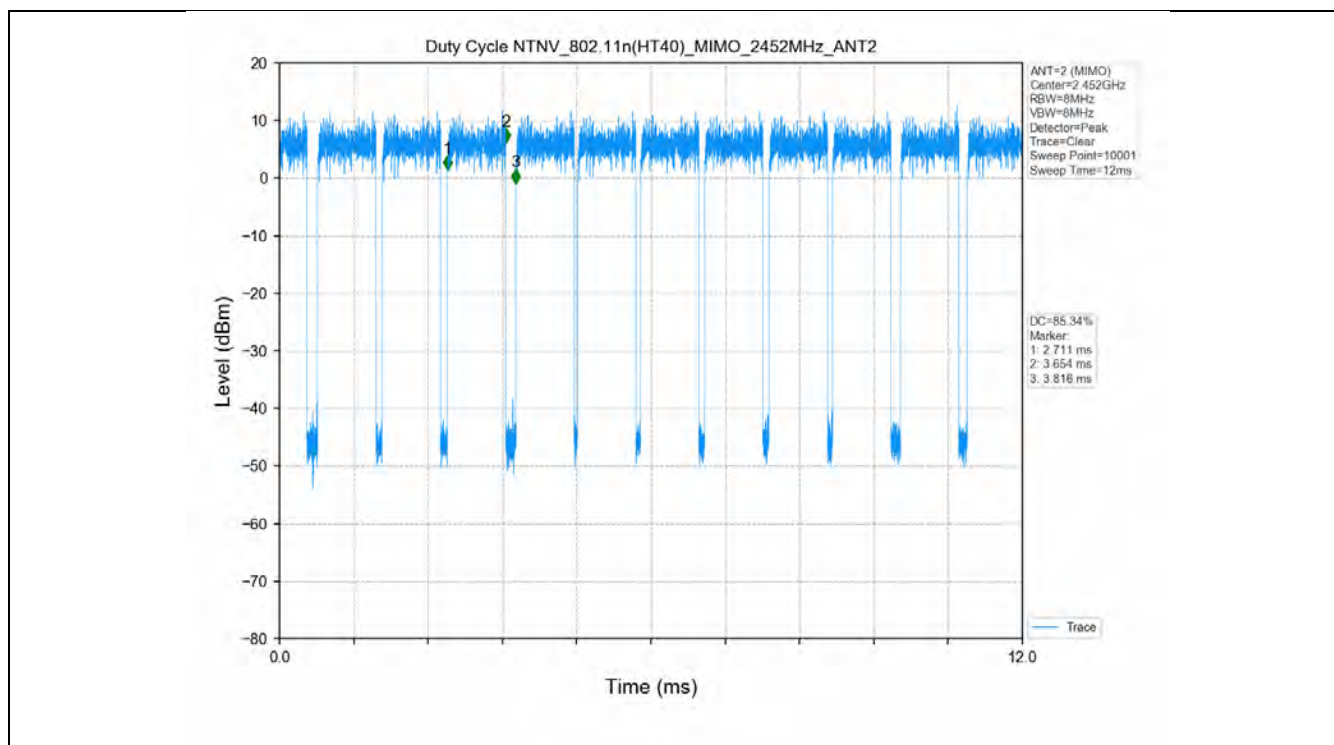












2. Bandwidth

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	10.047	≥ 0.5	PASS
			2	10.074	≥ 0.5	PASS
	2437	SISO	1	10.070	≥ 0.5	PASS
			2	9.548	≥ 0.5	PASS
	2462	SISO	1	10.080	≥ 0.5	PASS
			2	10.044	≥ 0.5	PASS
802.11g	2412	SISO	1	16.386	≥ 0.5	PASS
			2	16.415	≥ 0.5	PASS
	2437	SISO	1	16.418	≥ 0.5	PASS
			2	16.443	≥ 0.5	PASS
	2462	SISO	1	16.407	≥ 0.5	PASS
			2	16.422	≥ 0.5	PASS
802.11n(HT20)	2412	MIMO	1	17.615	≥ 0.5	PASS
			2	17.639	≥ 0.5	PASS
	2437	MIMO	1	17.610	≥ 0.5	PASS
			2	17.618	≥ 0.5	PASS
	2462	MIMO	1	17.619	≥ 0.5	PASS
			1	17.619	≥ 0.5	PASS

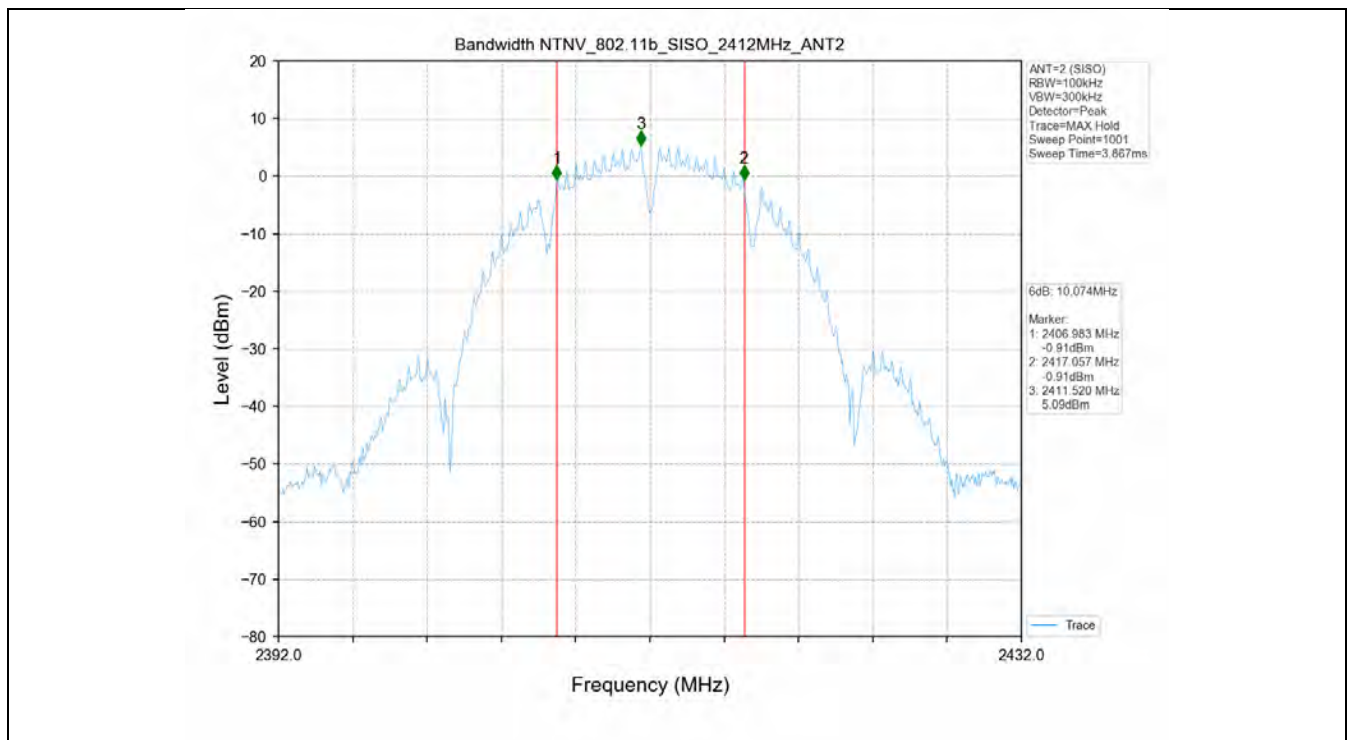
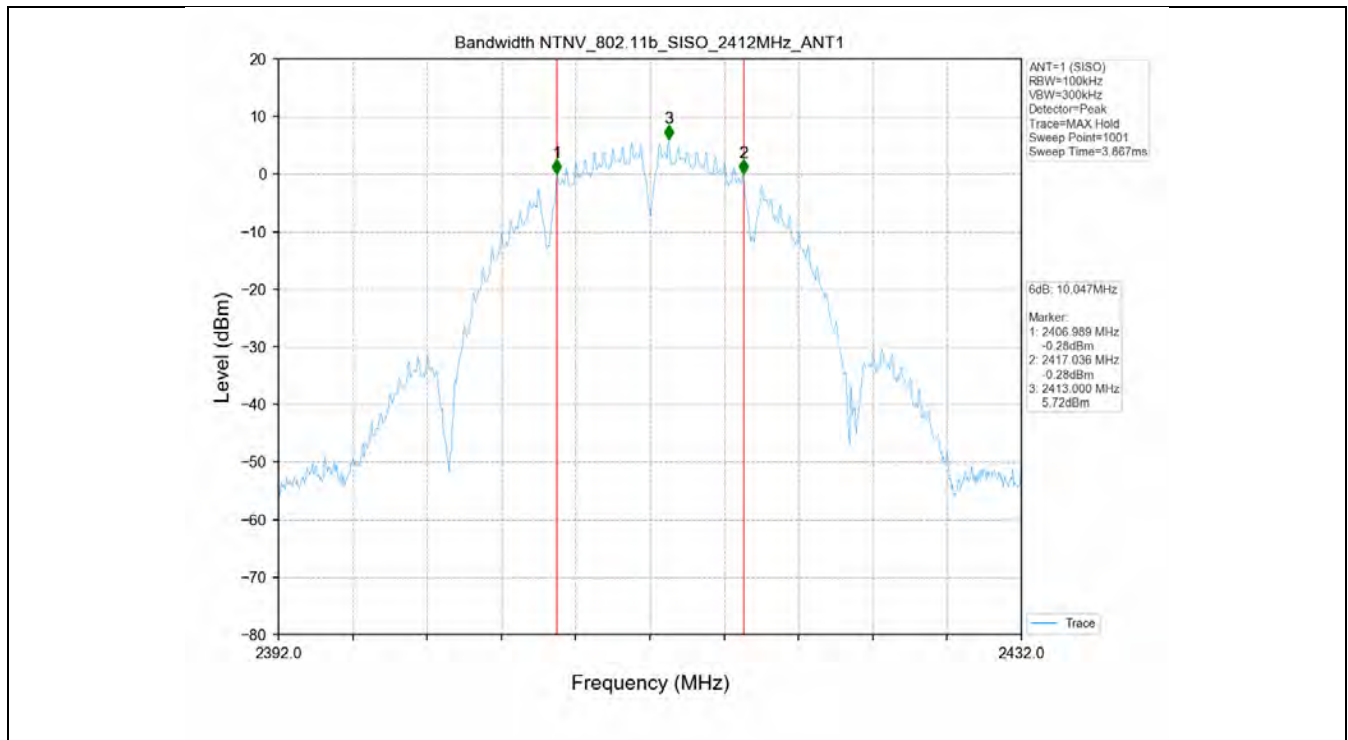


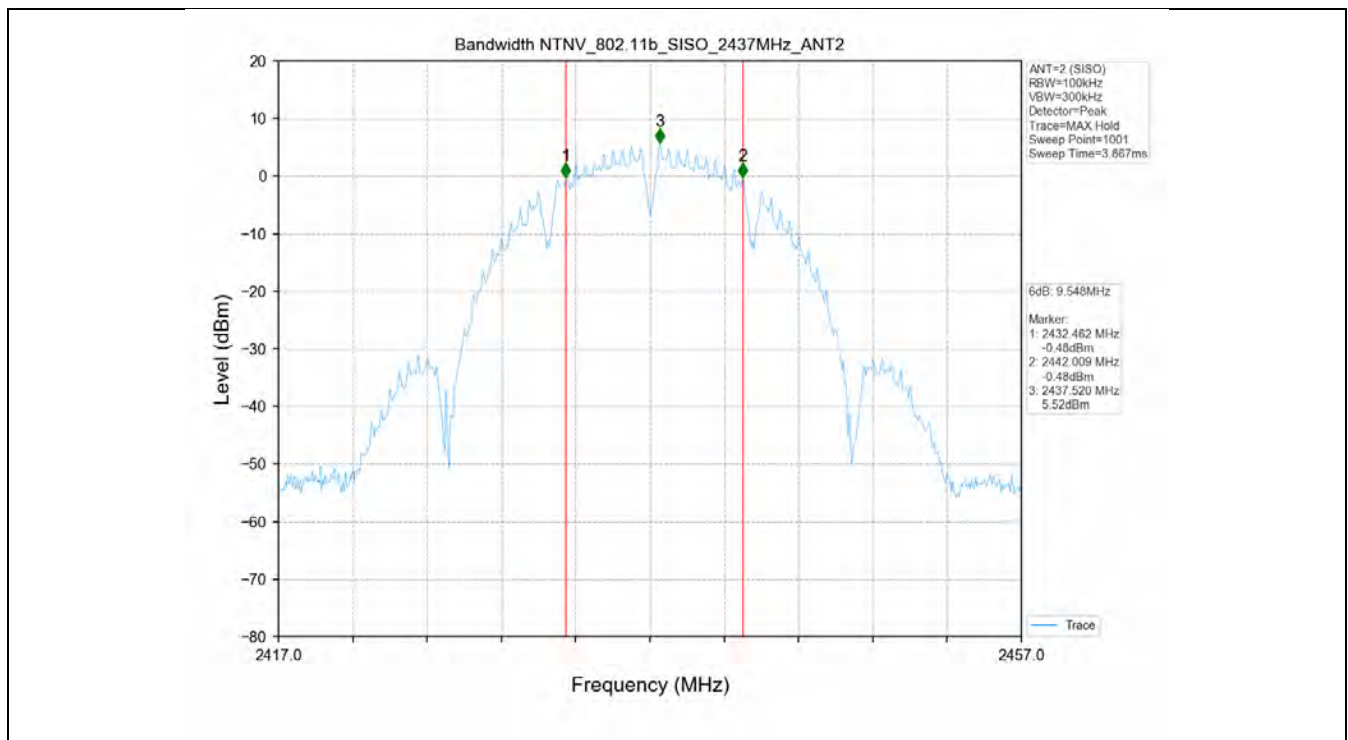
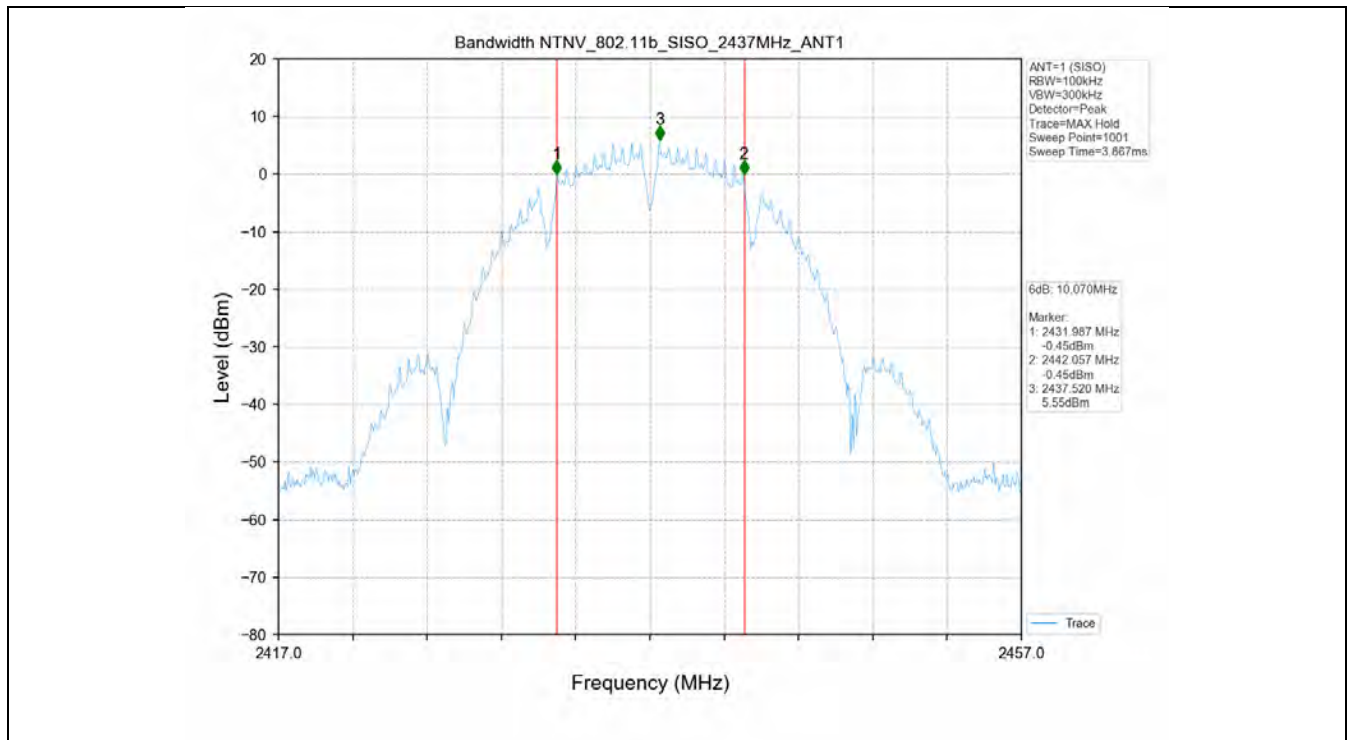
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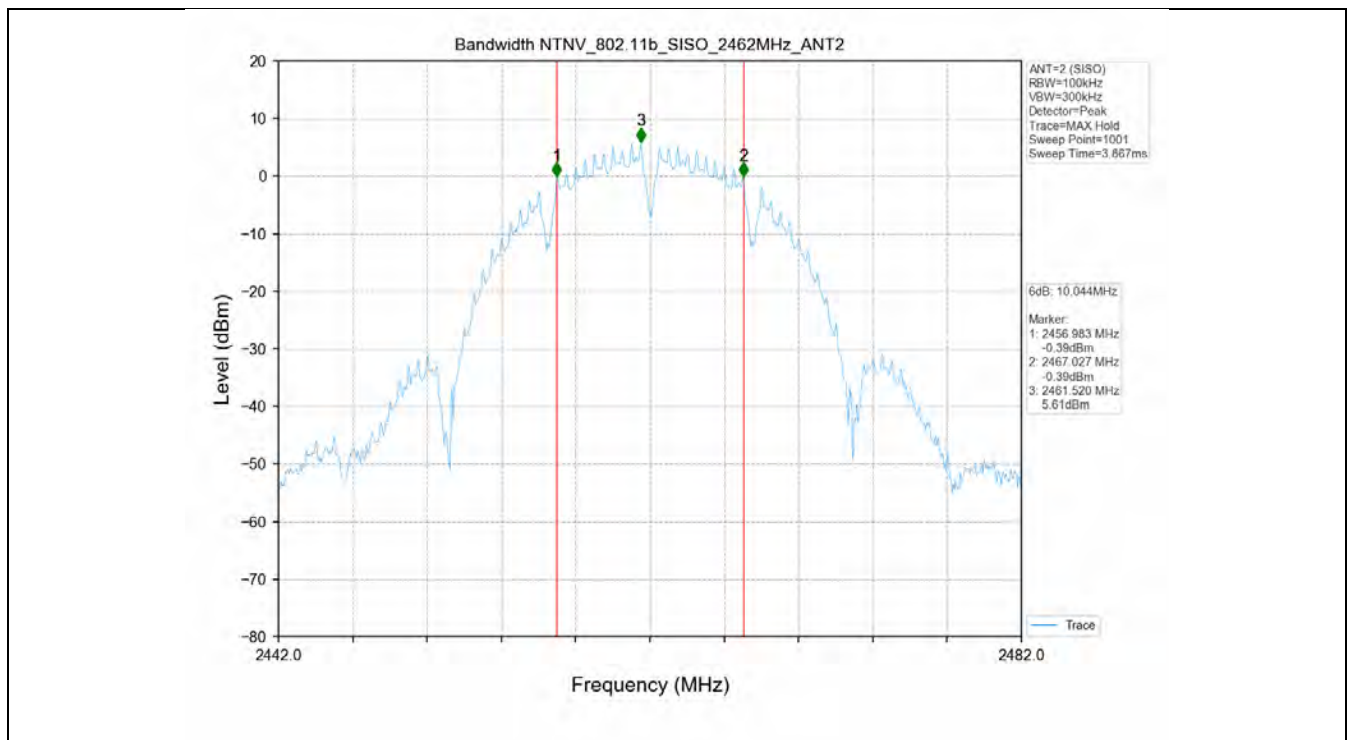
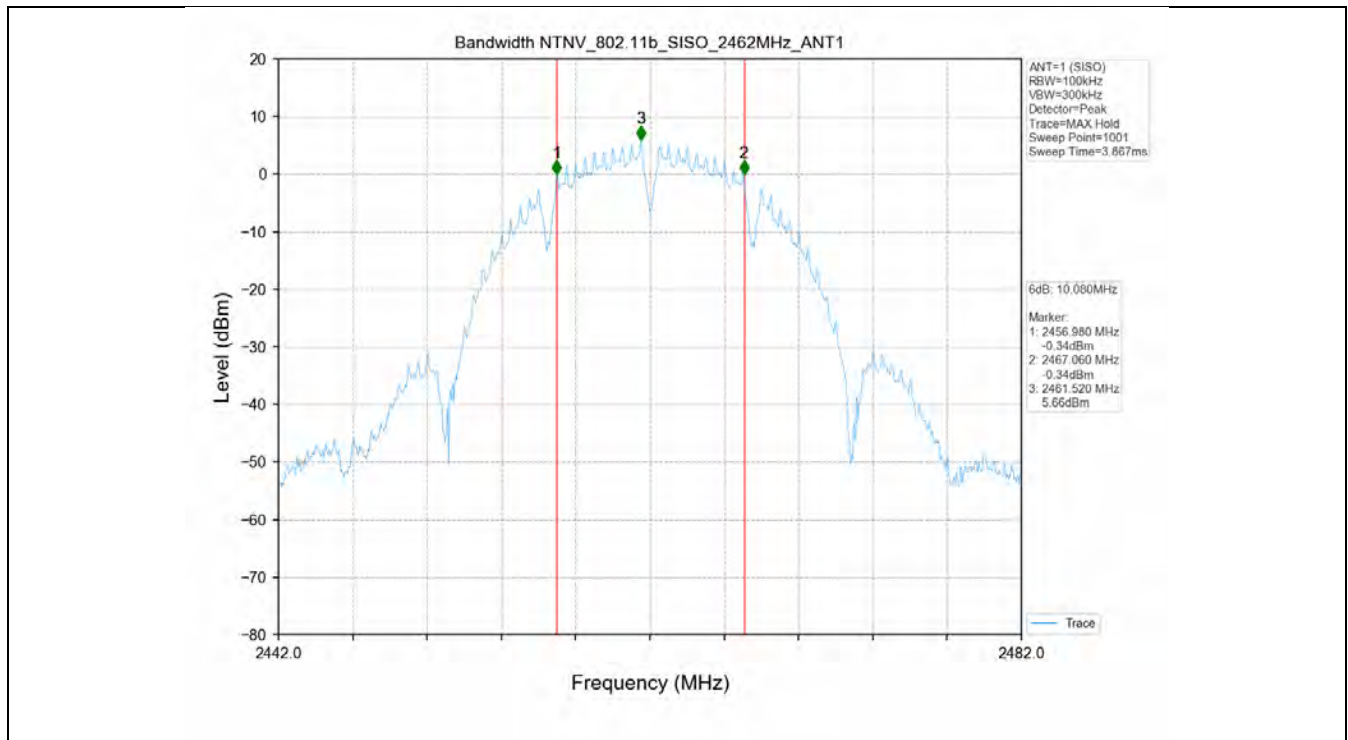
			2	17.621	≥ 0.5	PASS
802.11n(HT40)	2422	MIMO	1	35.520	≥ 0.5	PASS
			2	35.489	≥ 0.5	PASS
	2437	MIMO	1	35.734	≥ 0.5	PASS
			2	35.890	≥ 0.5	PASS
	2452	MIMO	1	35.871	≥ 0.5	PASS
			2	35.704	≥ 0.5	PASS

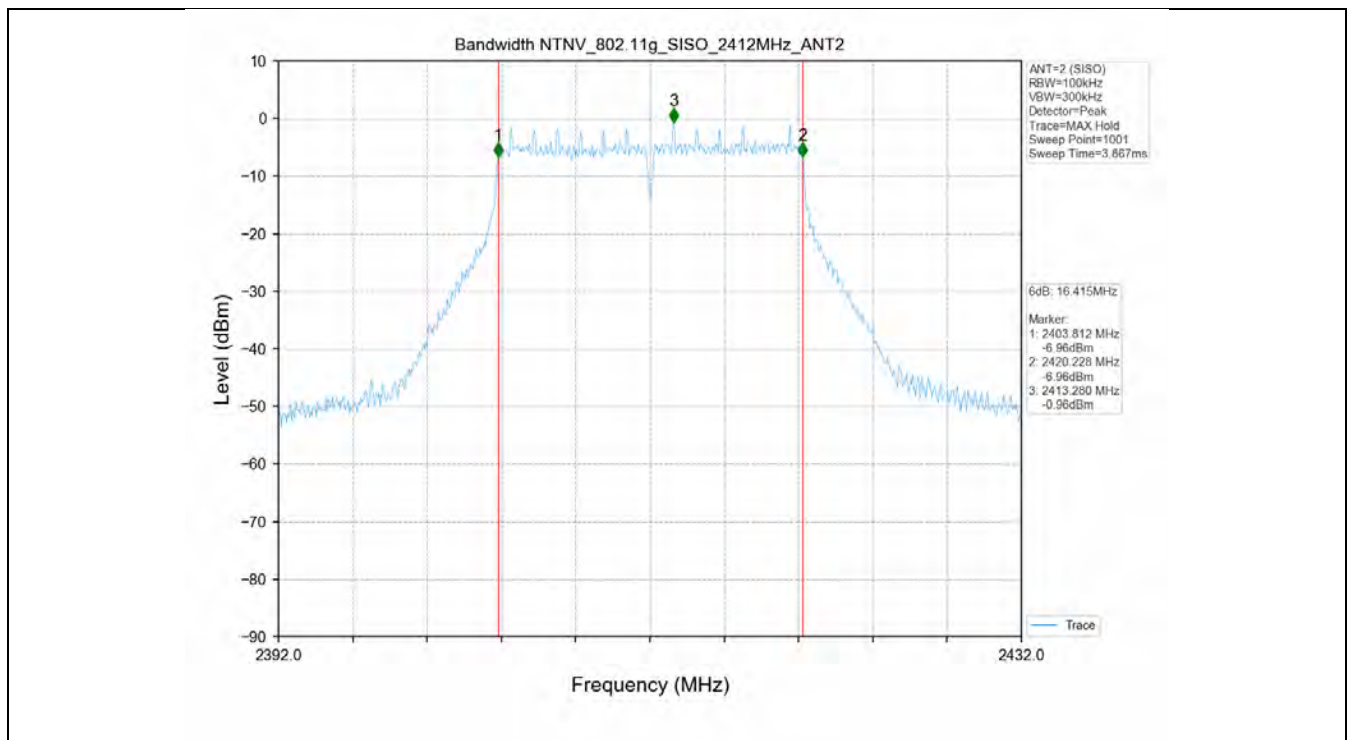
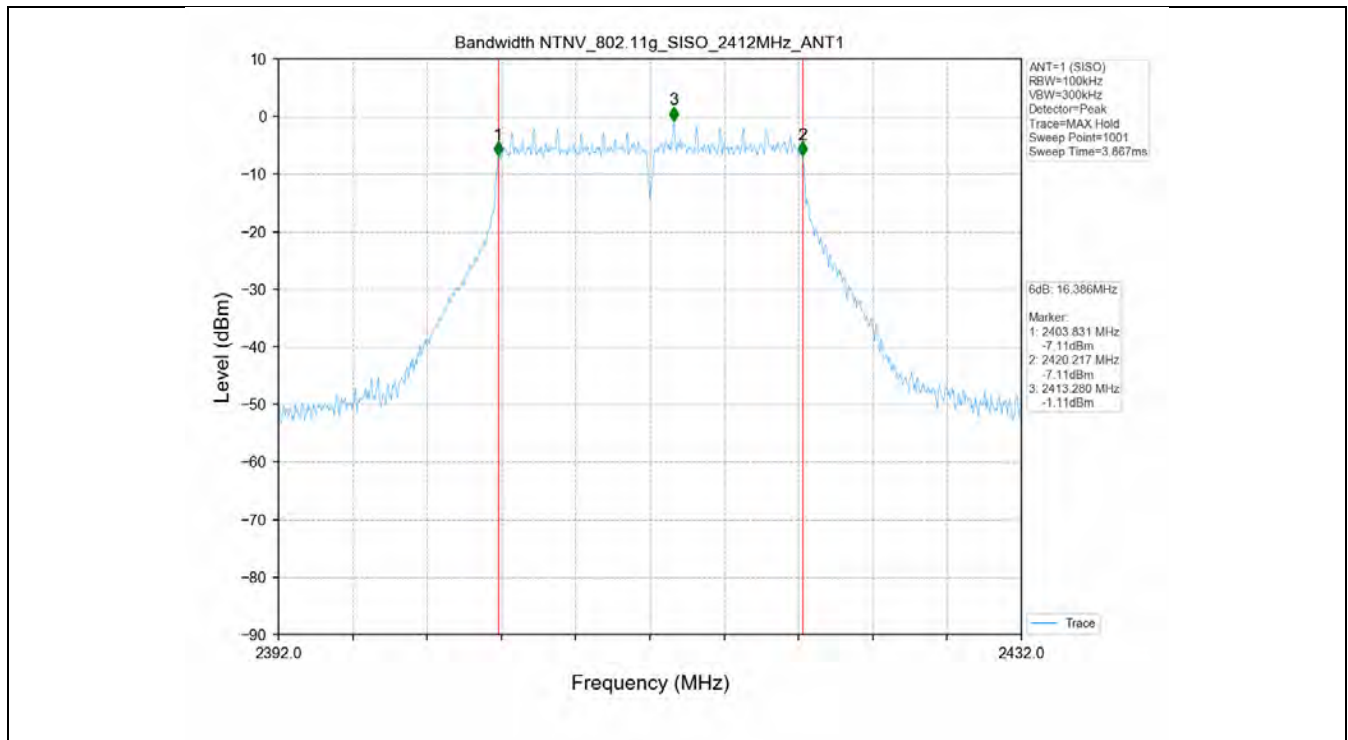
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.067	Only for Report Use
			2	15.074	Only for Report Use
	2437	SISO	1	15.092	Only for Report Use
			2	15.092	Only for Report Use
	2462	SISO	1	15.084	Only for Report Use
			2	15.084	Only for Report Use
802.11g	2412	SISO	1	17.009	Only for Report Use
			2	16.909	Only for Report Use
	2437	SISO	1	16.887	Only for Report Use
			2	16.903	Only for Report Use
	2462	SISO	1	16.905	Only for Report Use
			2	17.125	Only for Report Use
802.11n(HT20)	2412	MIMO	1	18.081	Only for Report Use
			2	18.123	Only for Report Use
	2437	MIMO	1	18.096	Only for Report Use
			2	18.110	Only for Report Use
	2462	MIMO	1	18.278	Only for Report Use
			2	18.299	Only for Report Use
802.11n(HT40)	2422	MIMO	1	36.597	Only for Report Use
			2	36.552	Only for Report Use
	2437	MIMO	1	36.931	Only for Report Use
			2	36.859	Only for Report Use
	2452	MIMO	1	36.679	Only for Report Use
			2	36.574	Only for Report Use

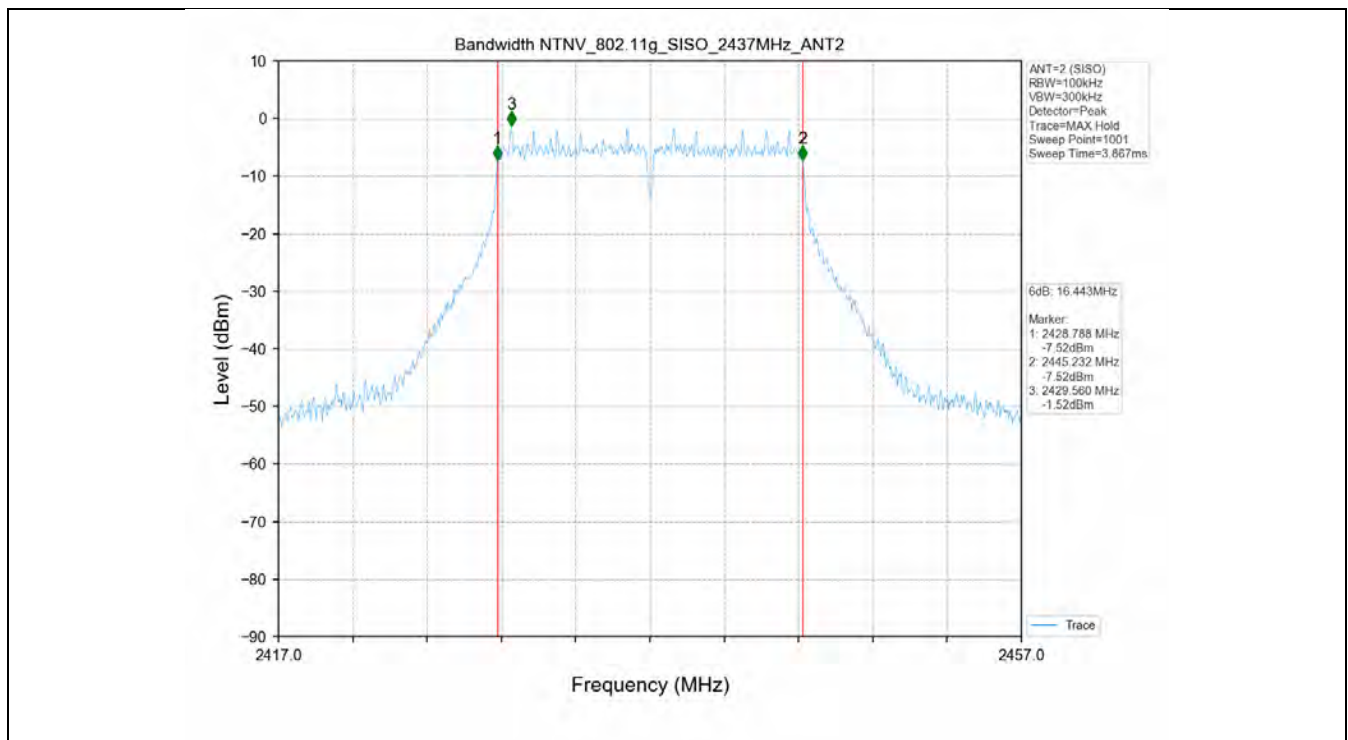
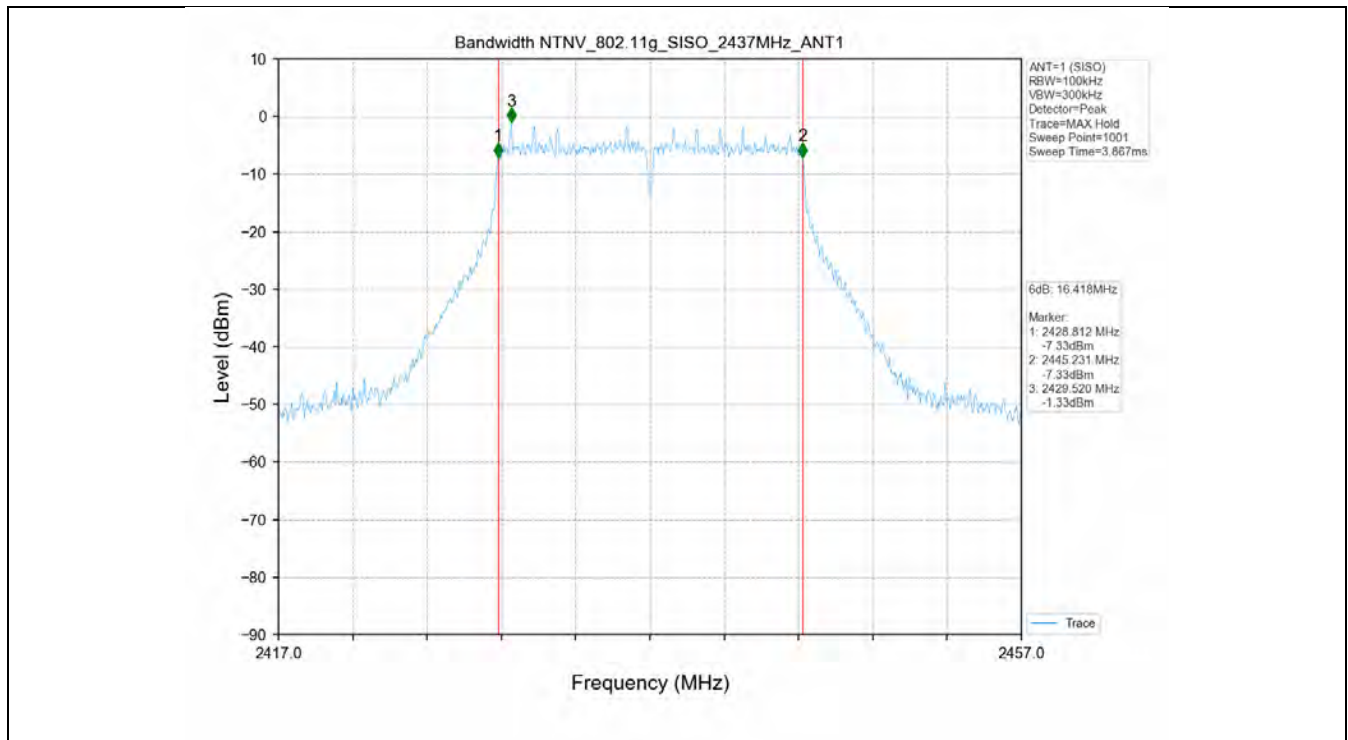
2.2 Test Graph - 6dB Bandwidth

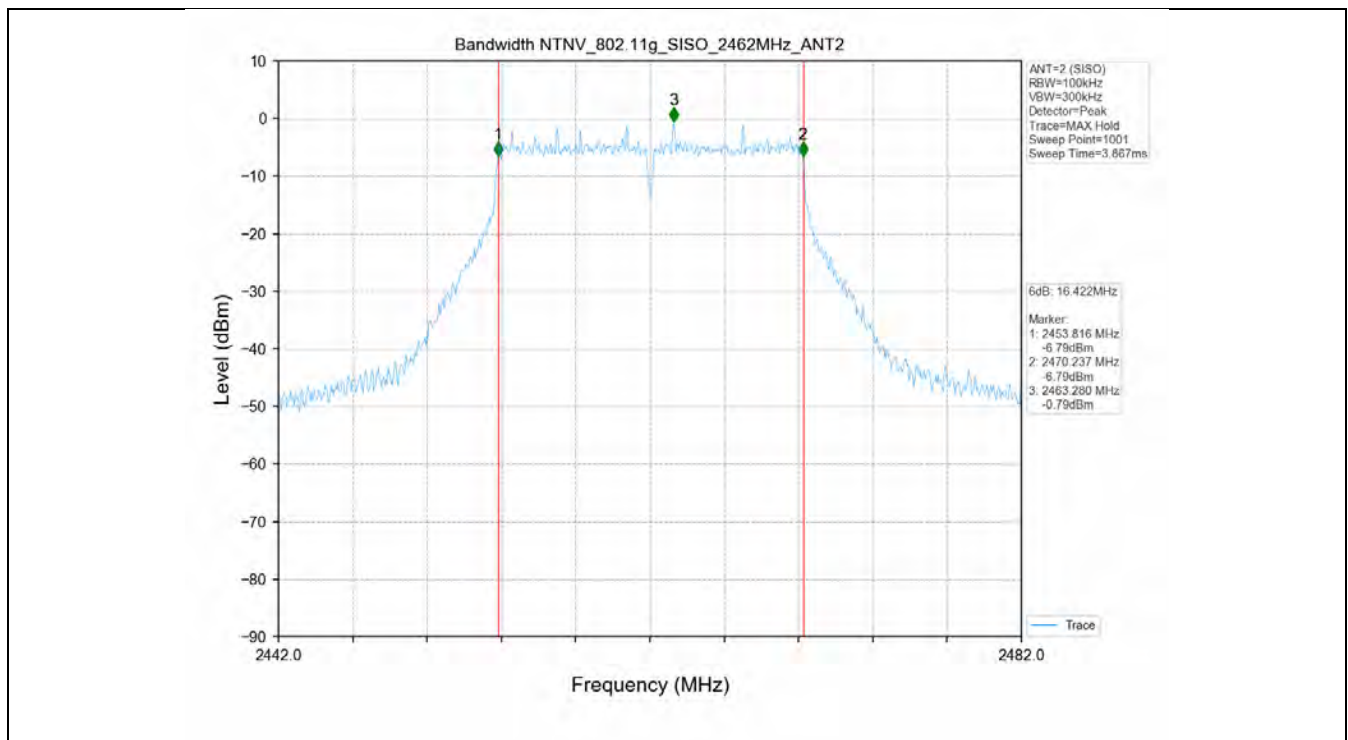
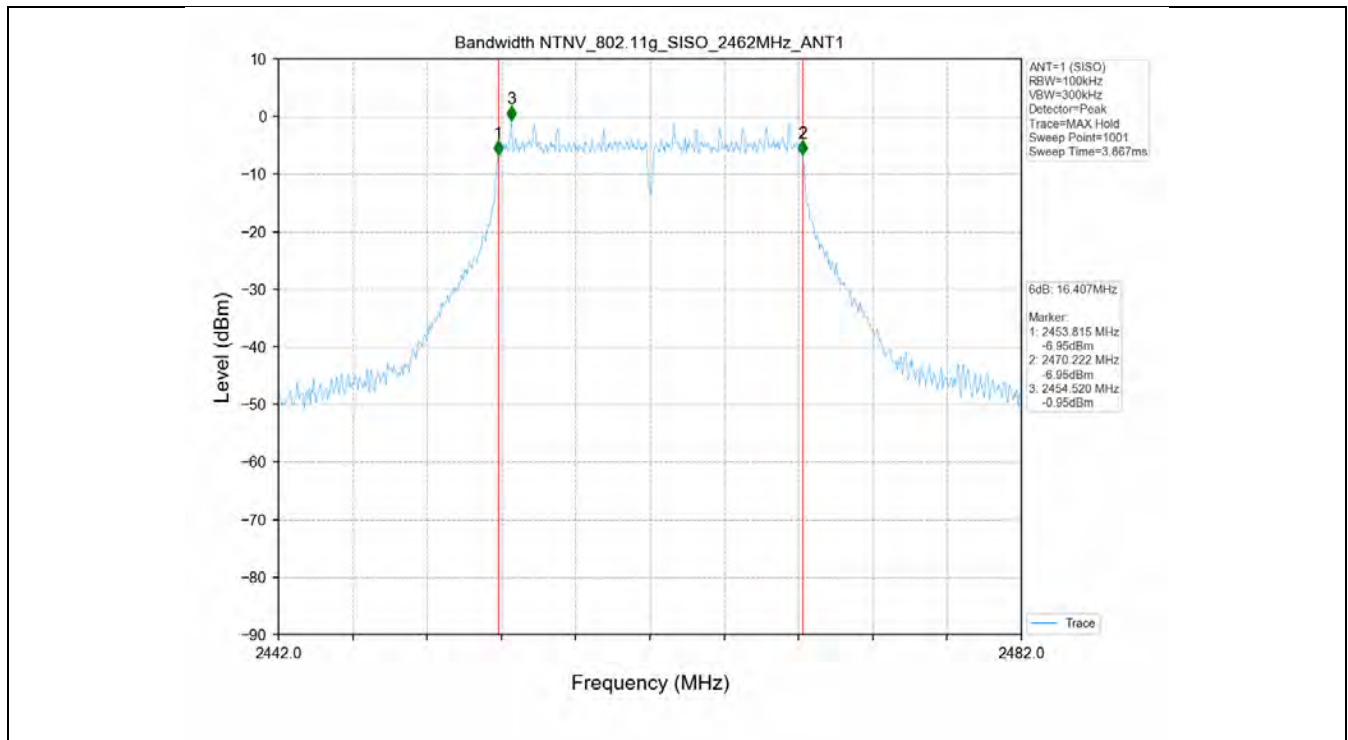


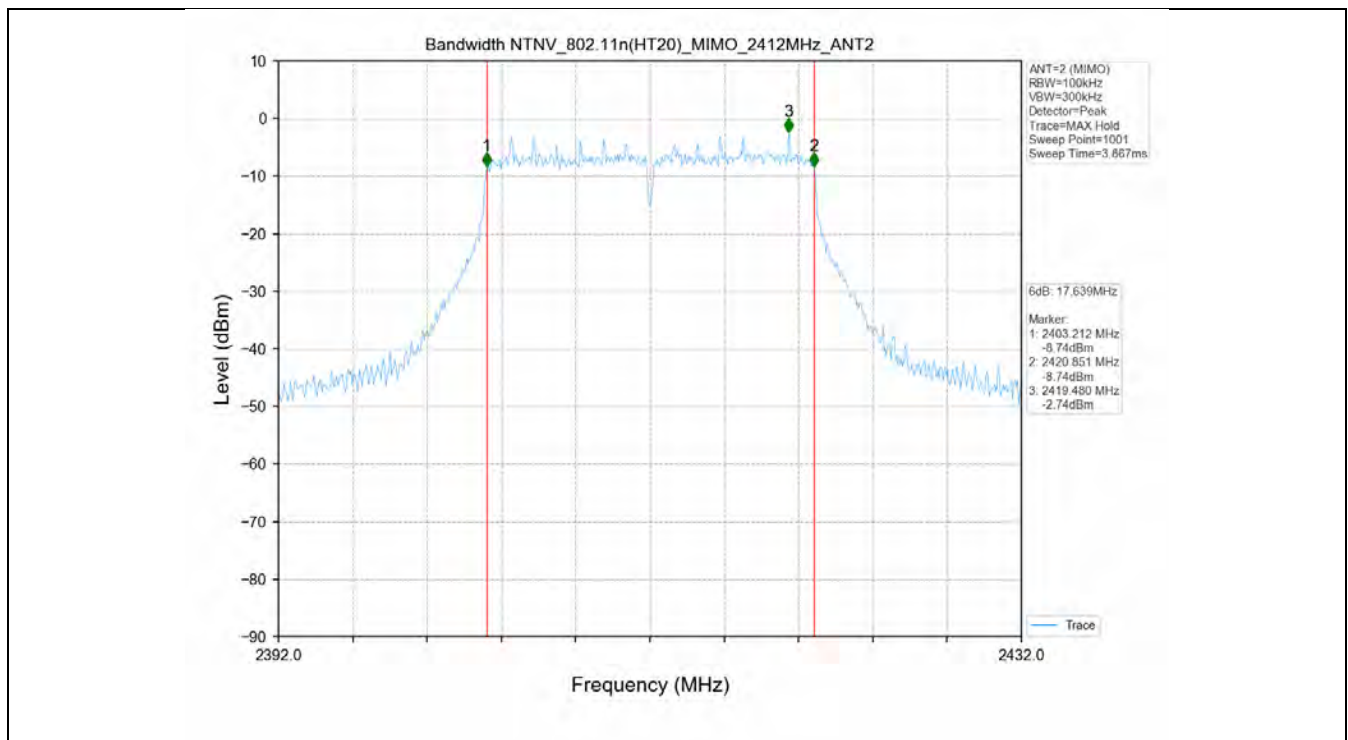
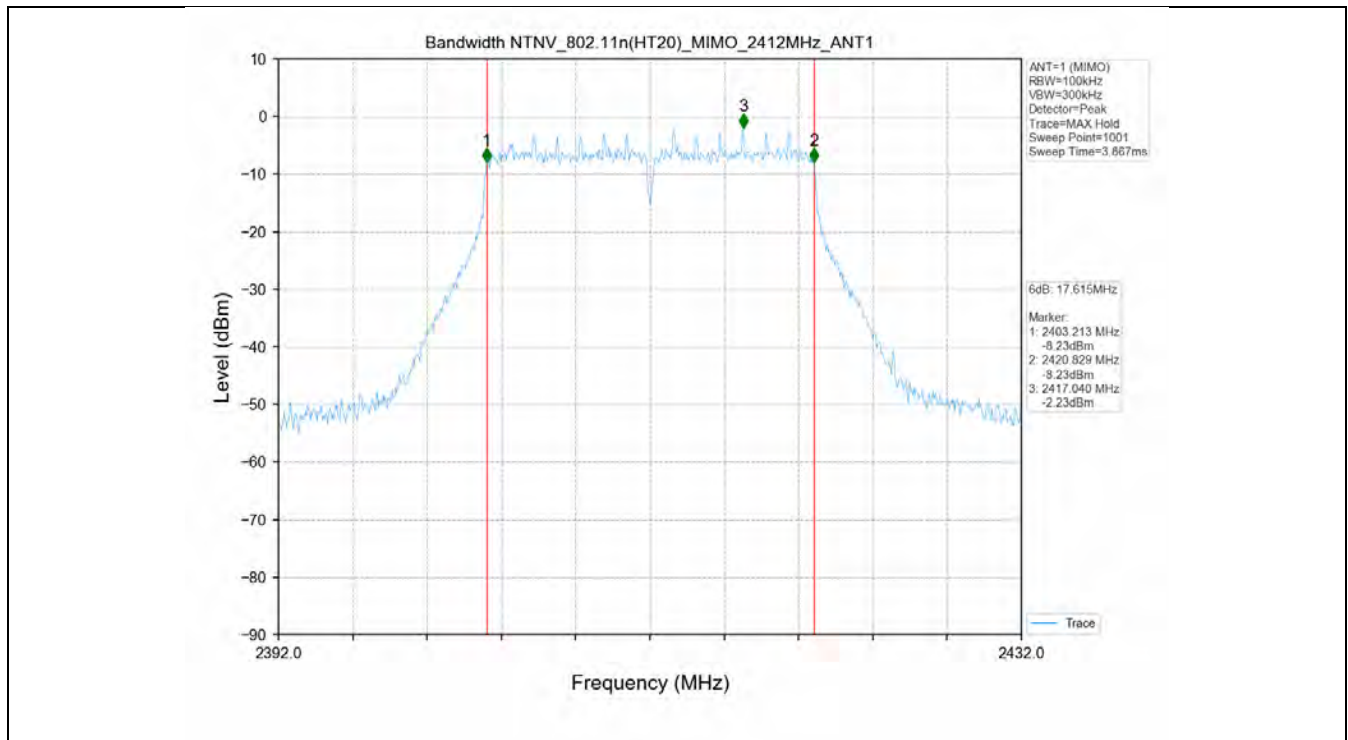


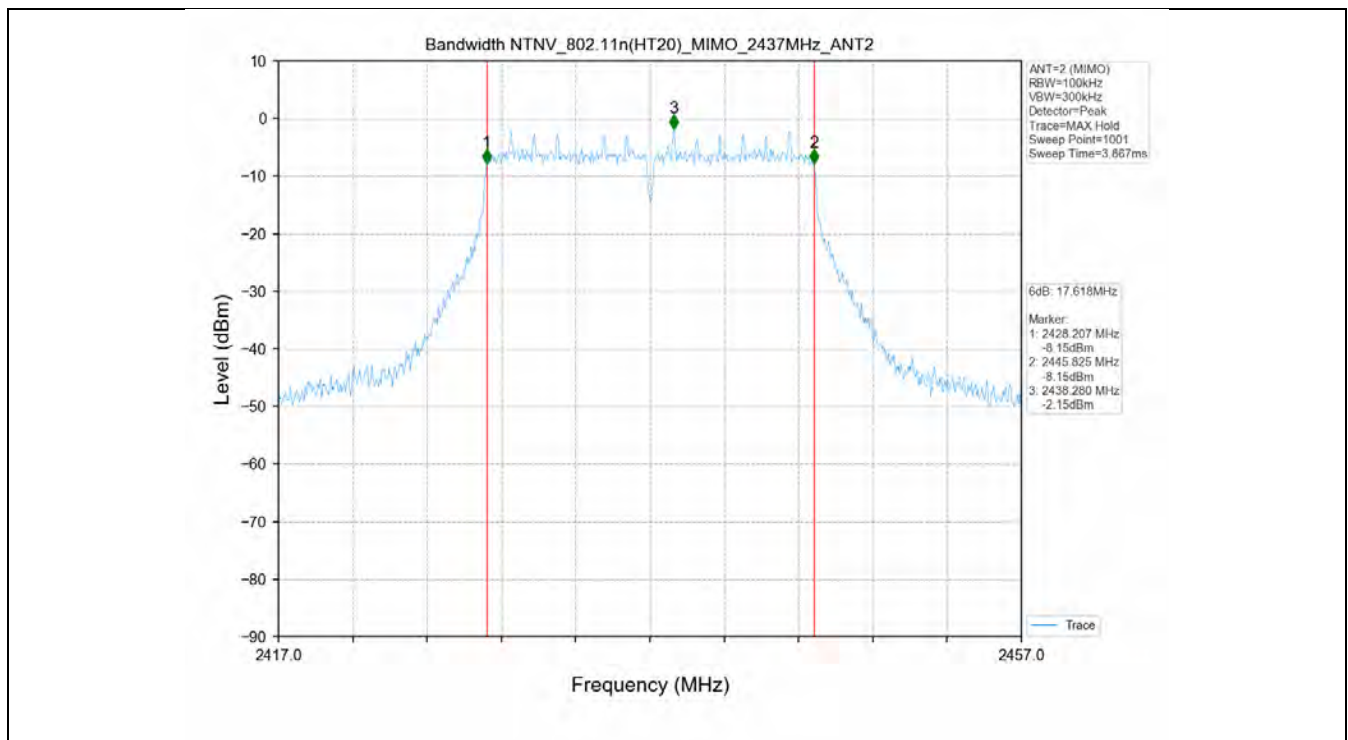
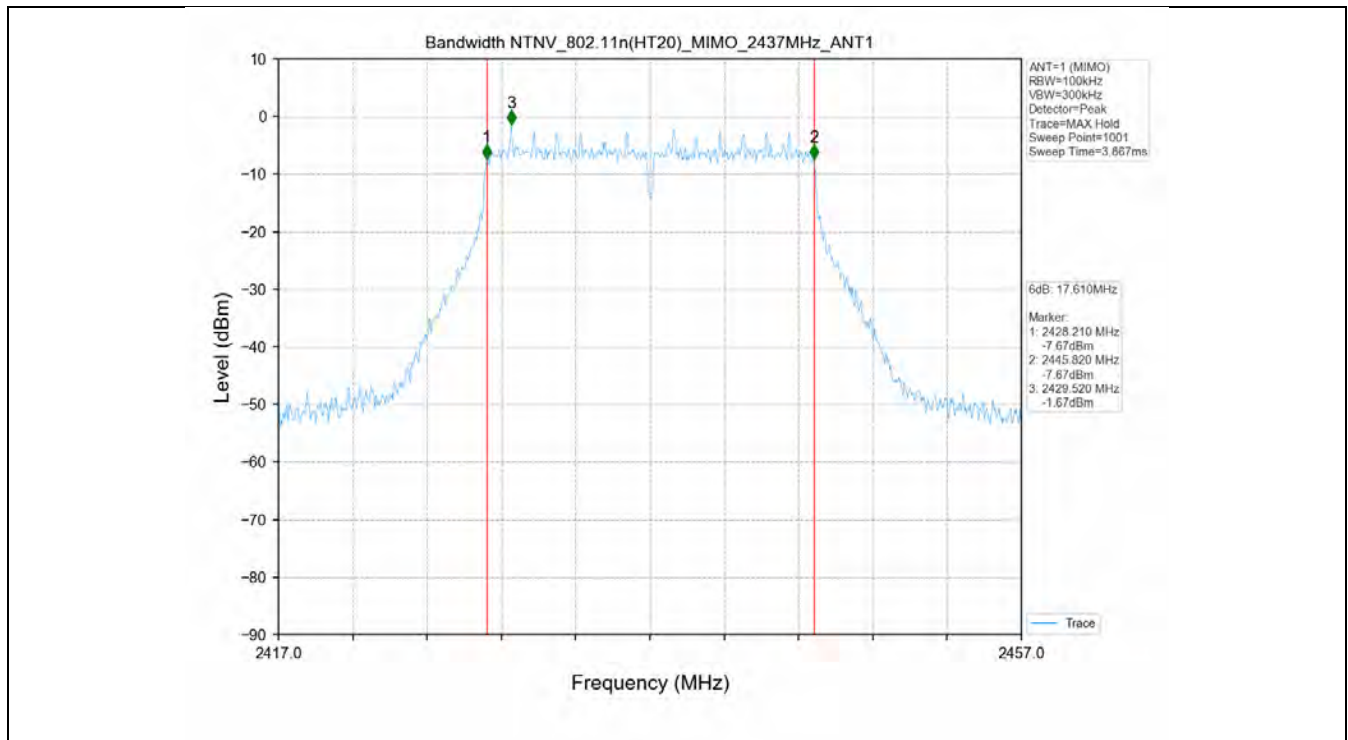


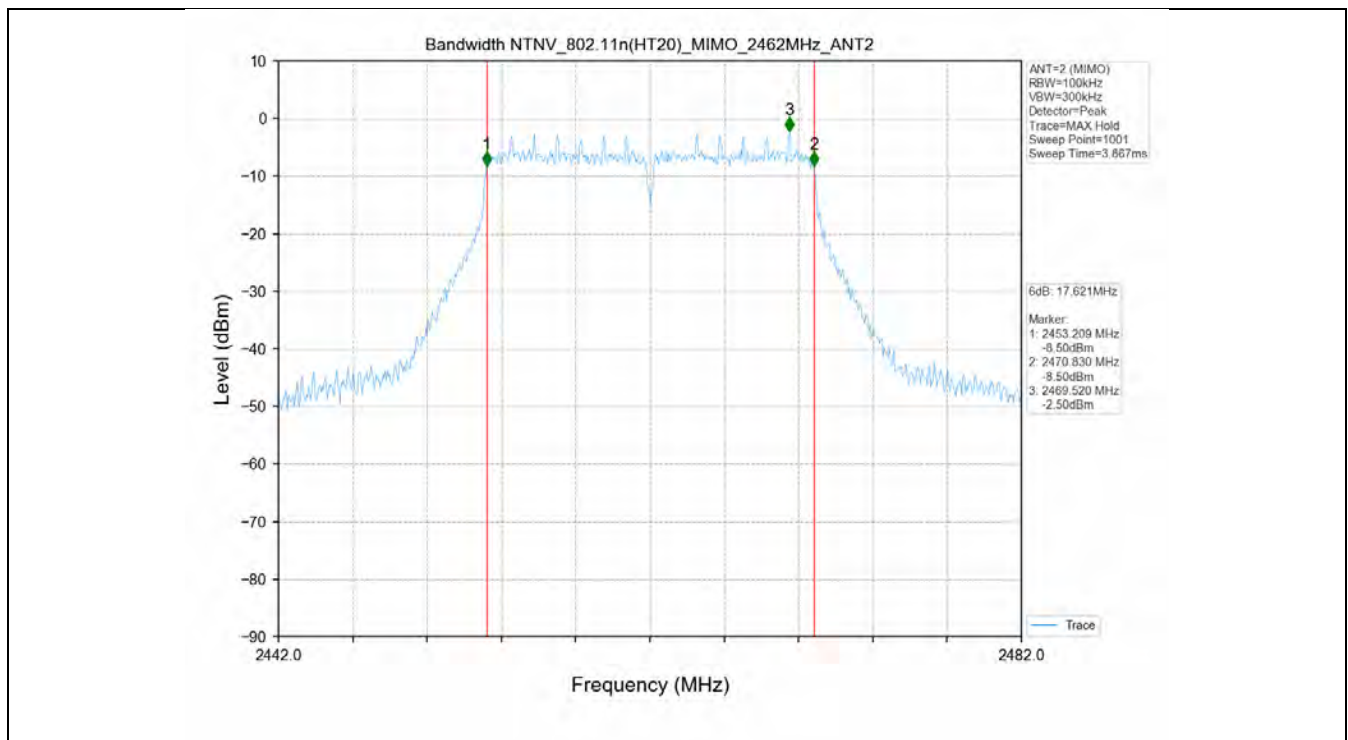
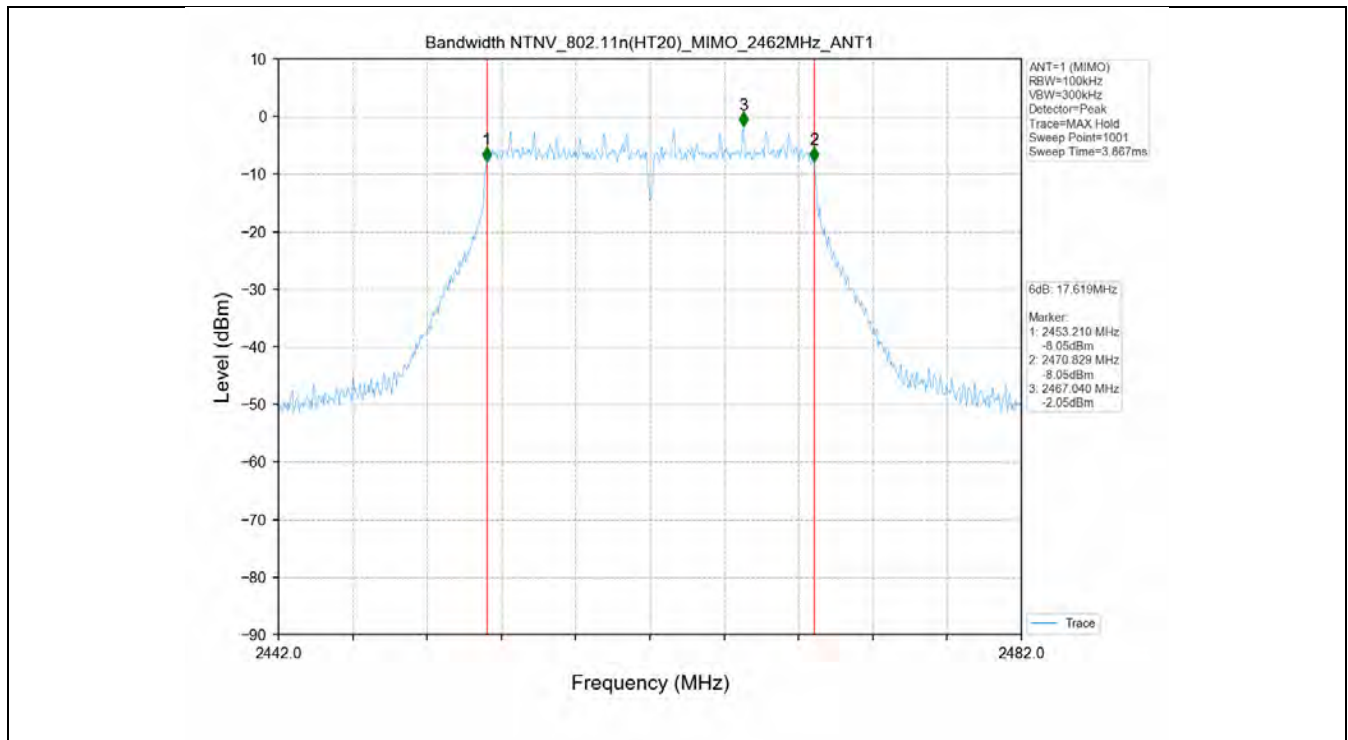


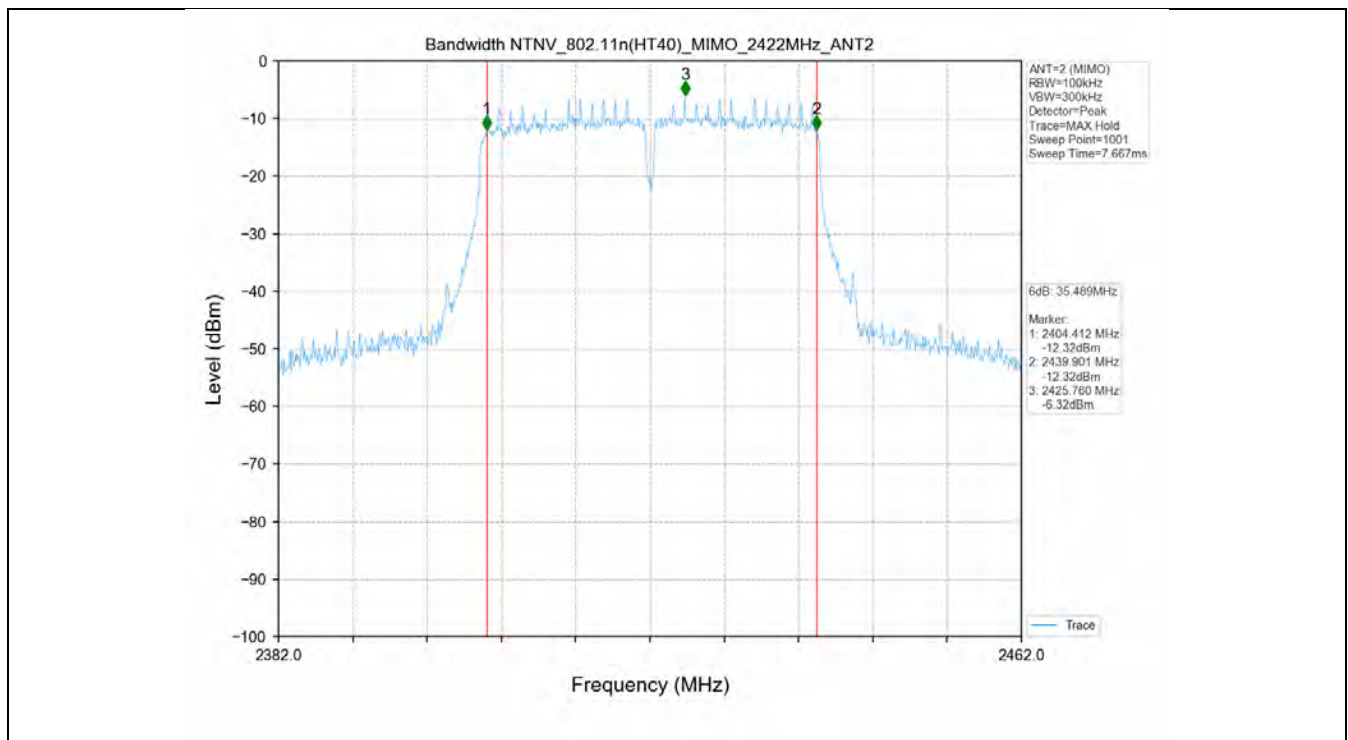
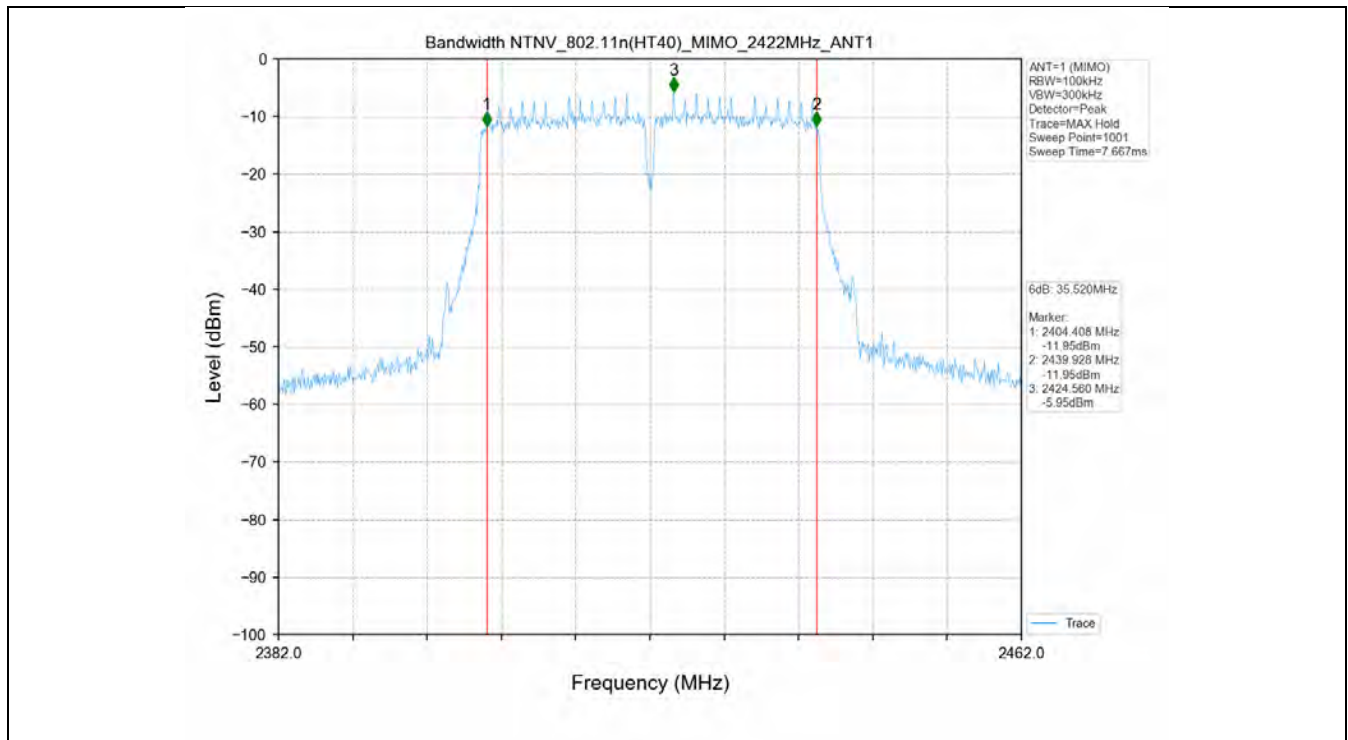


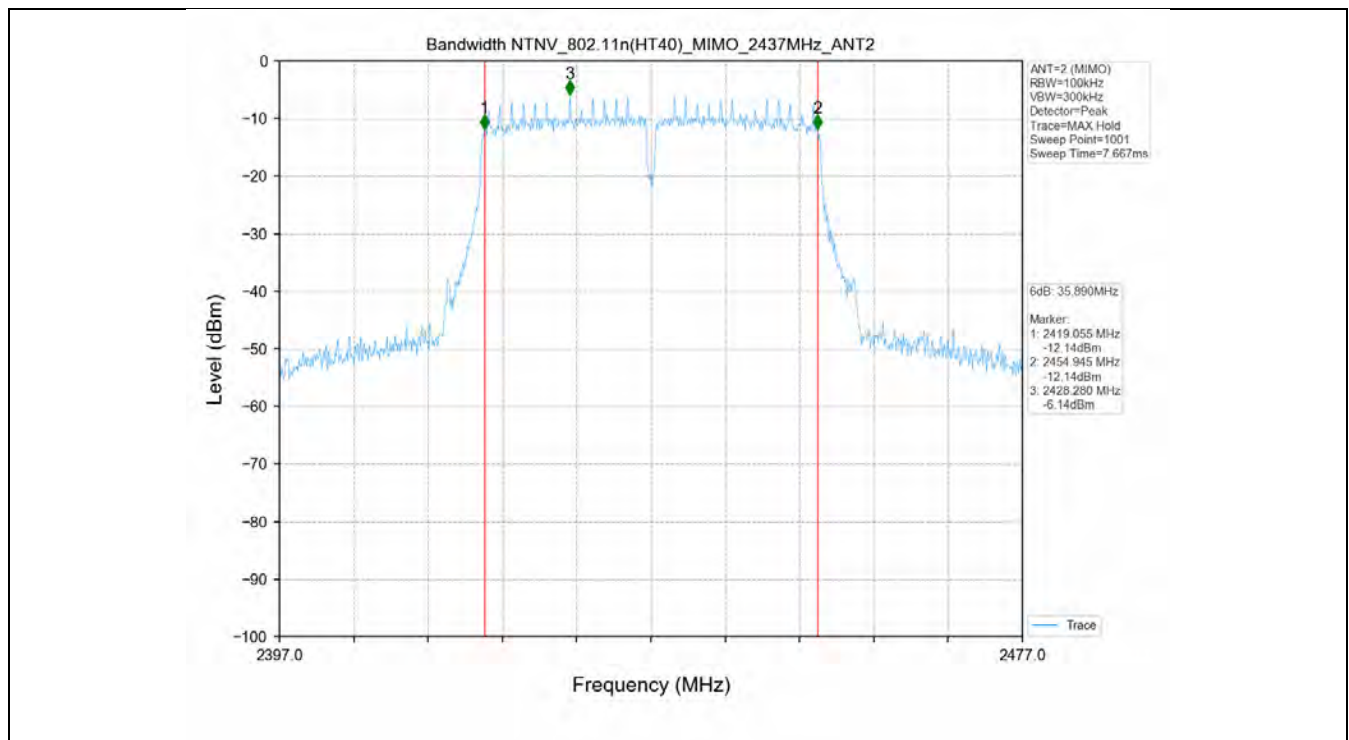
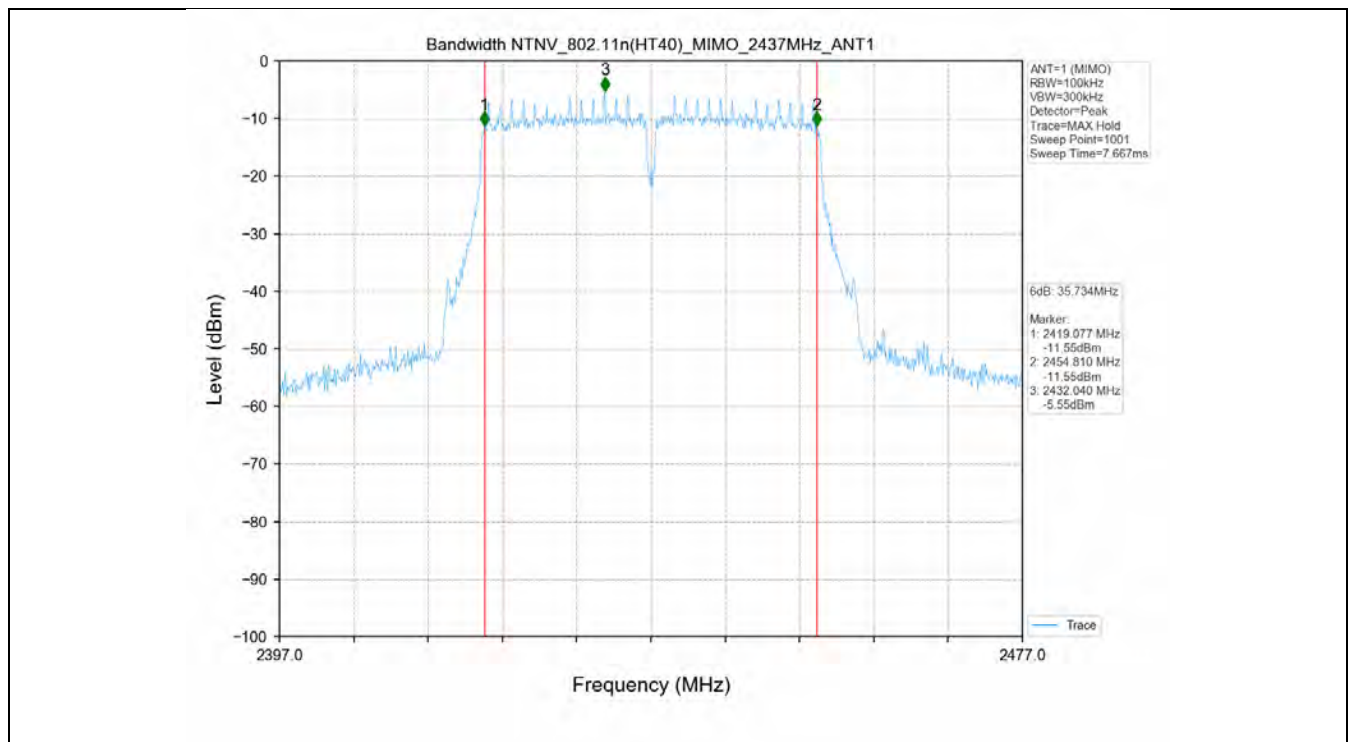


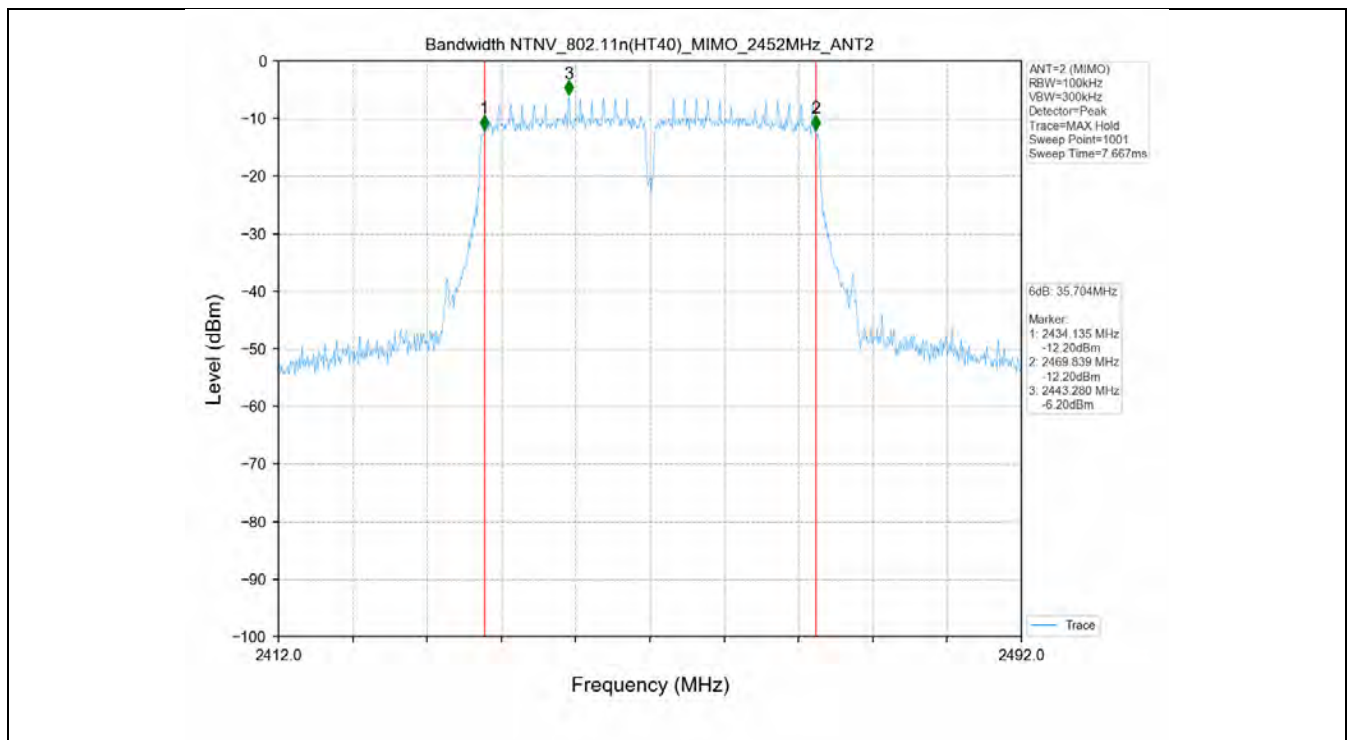
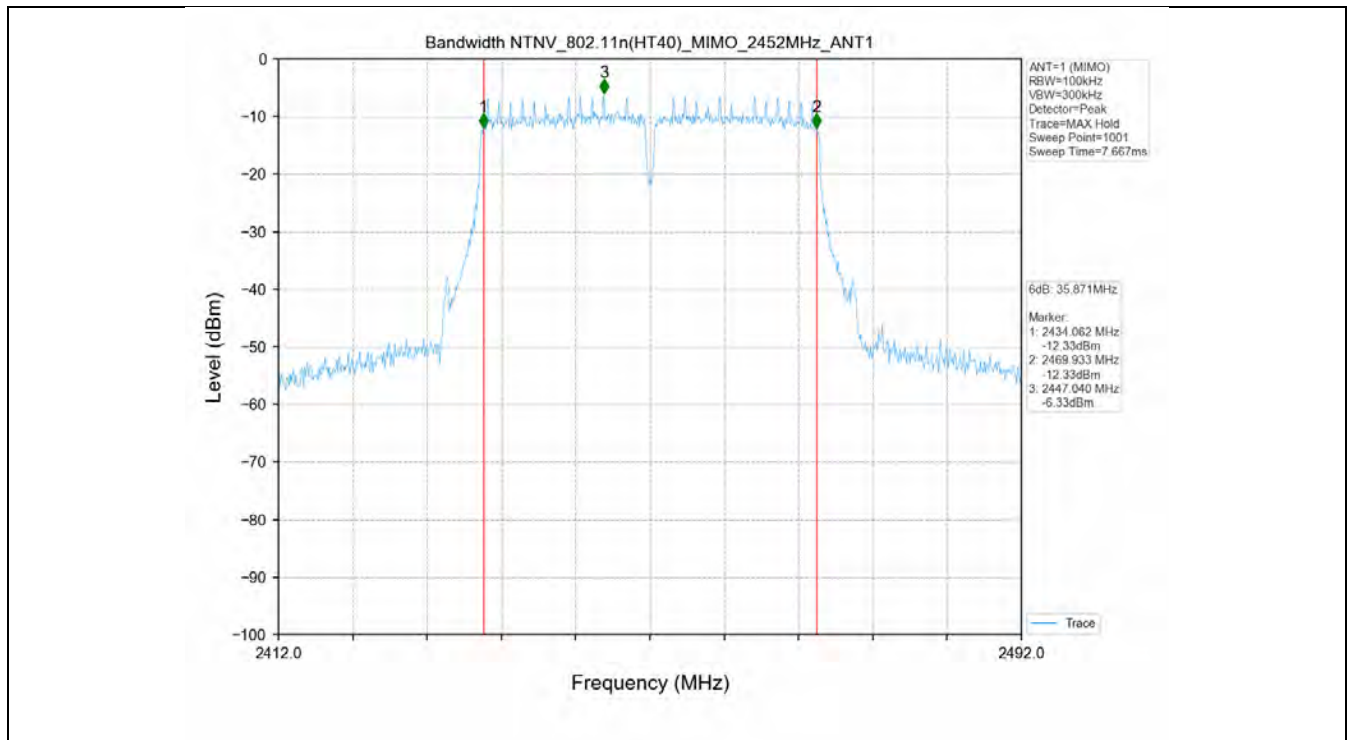






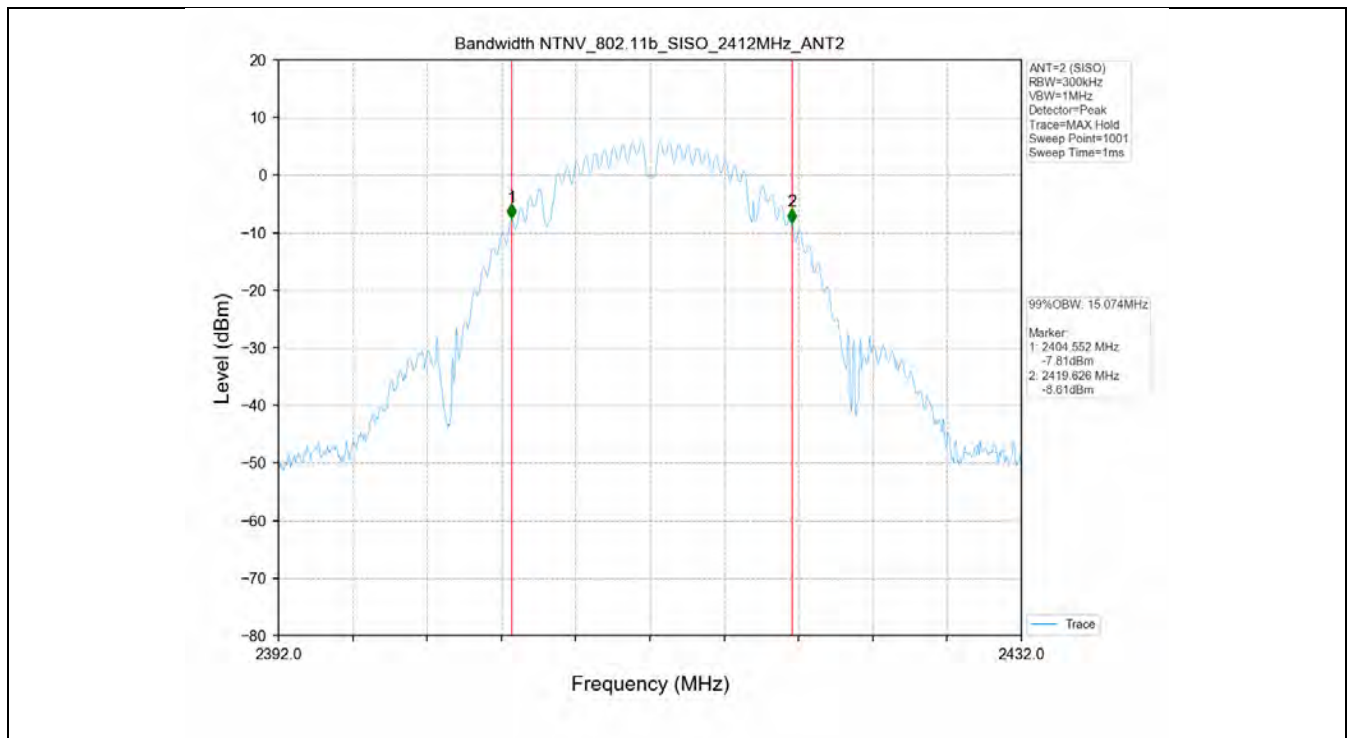
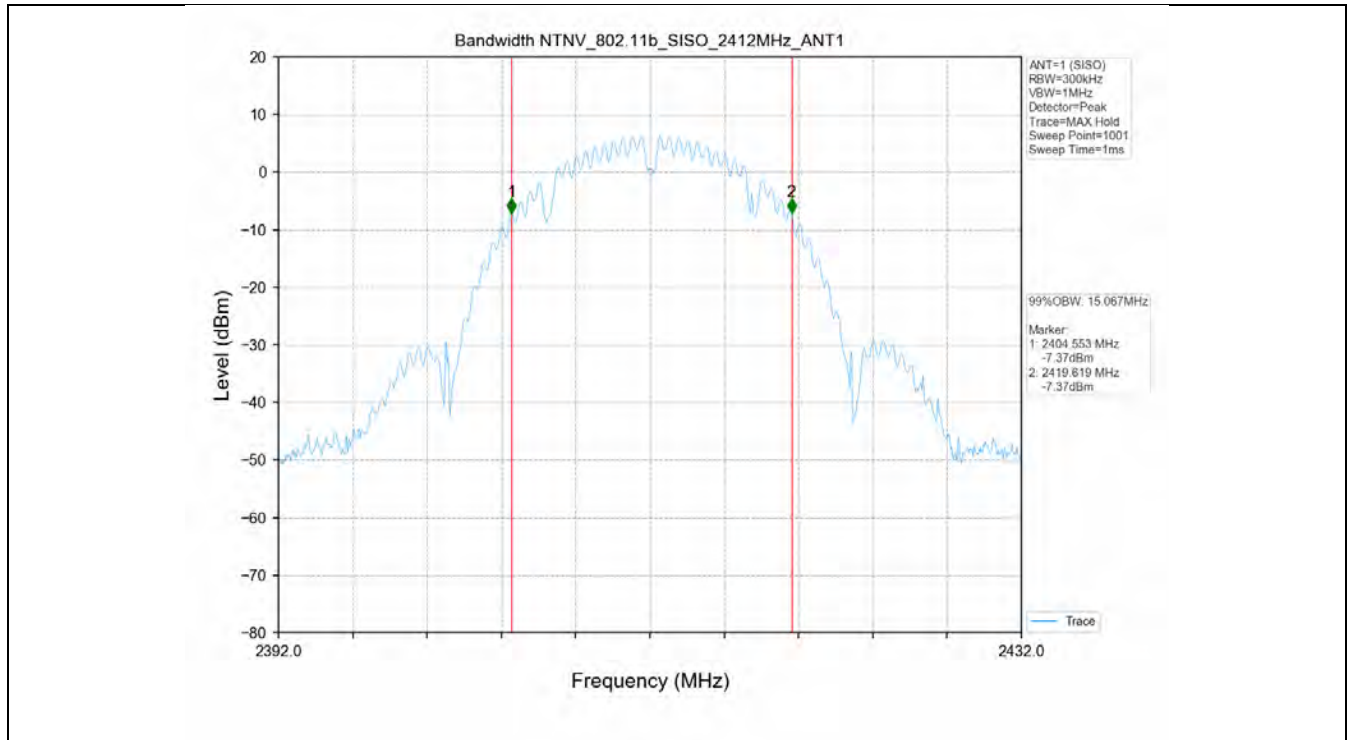


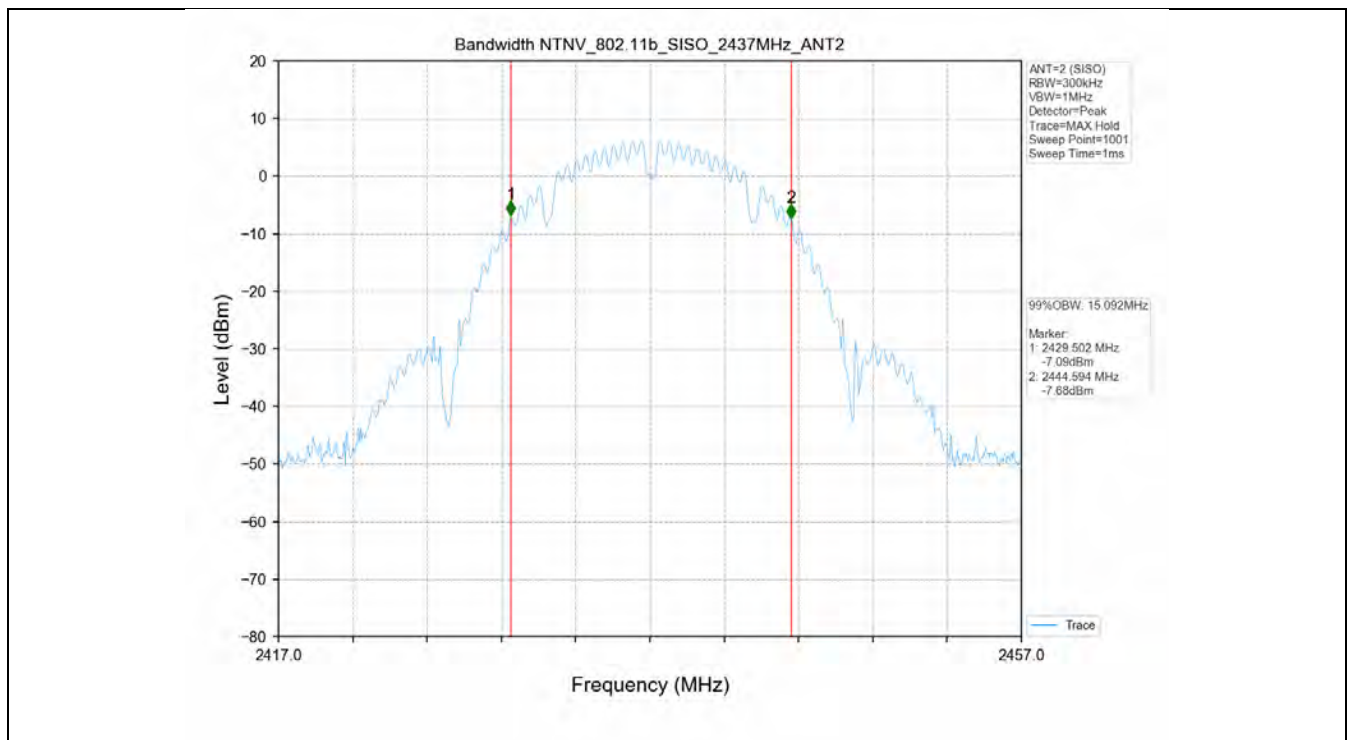
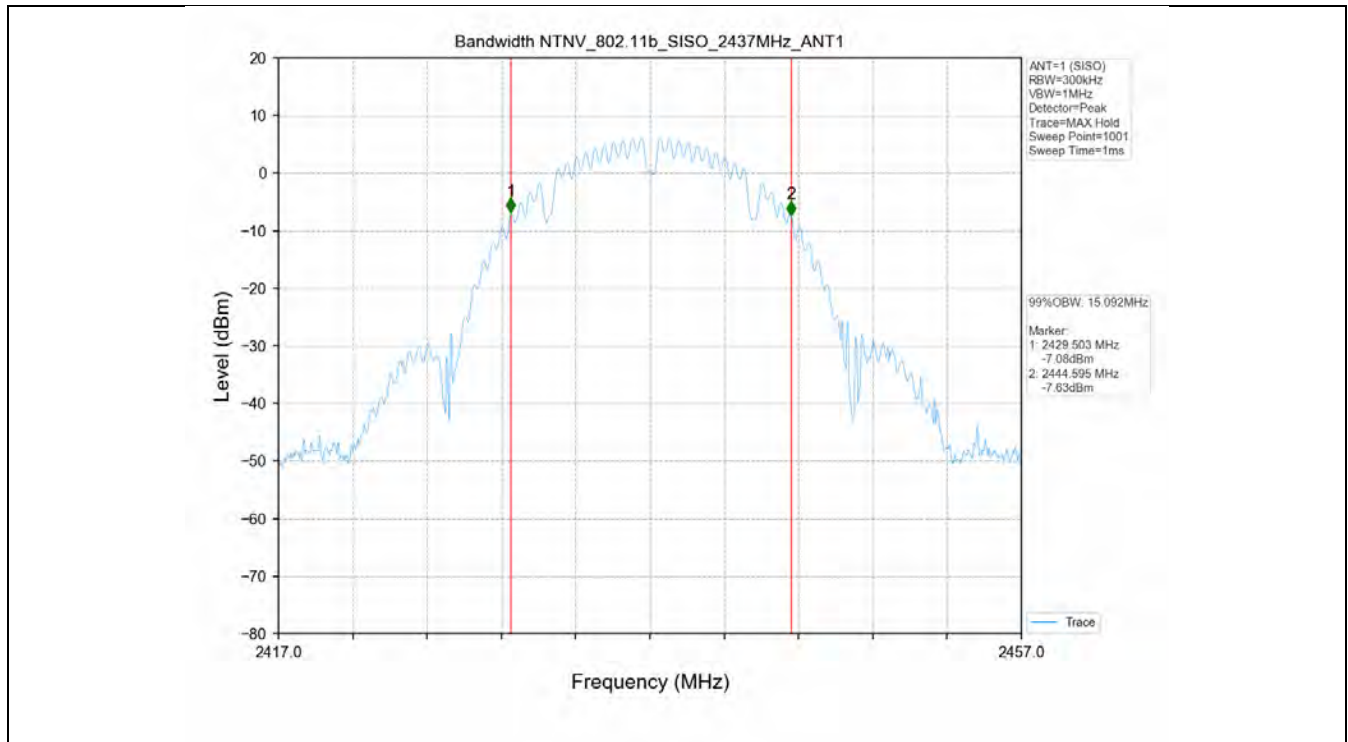


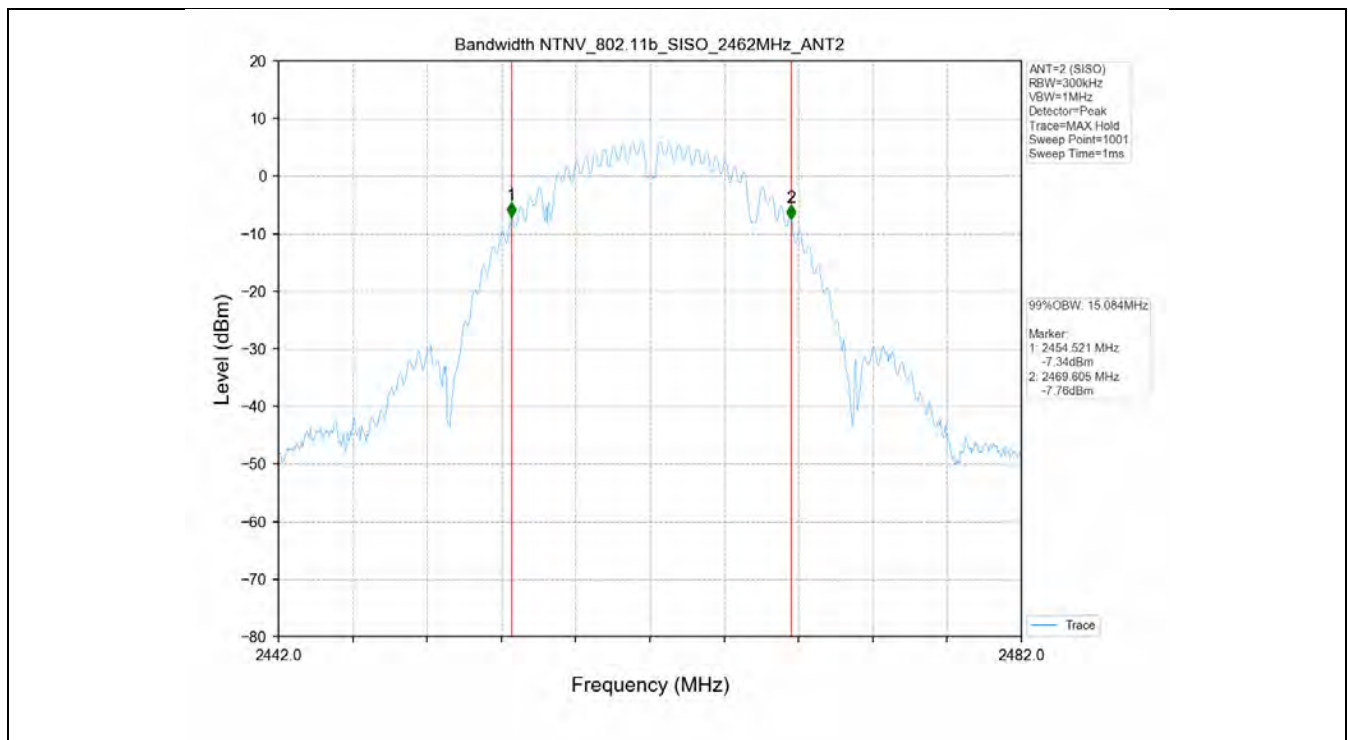
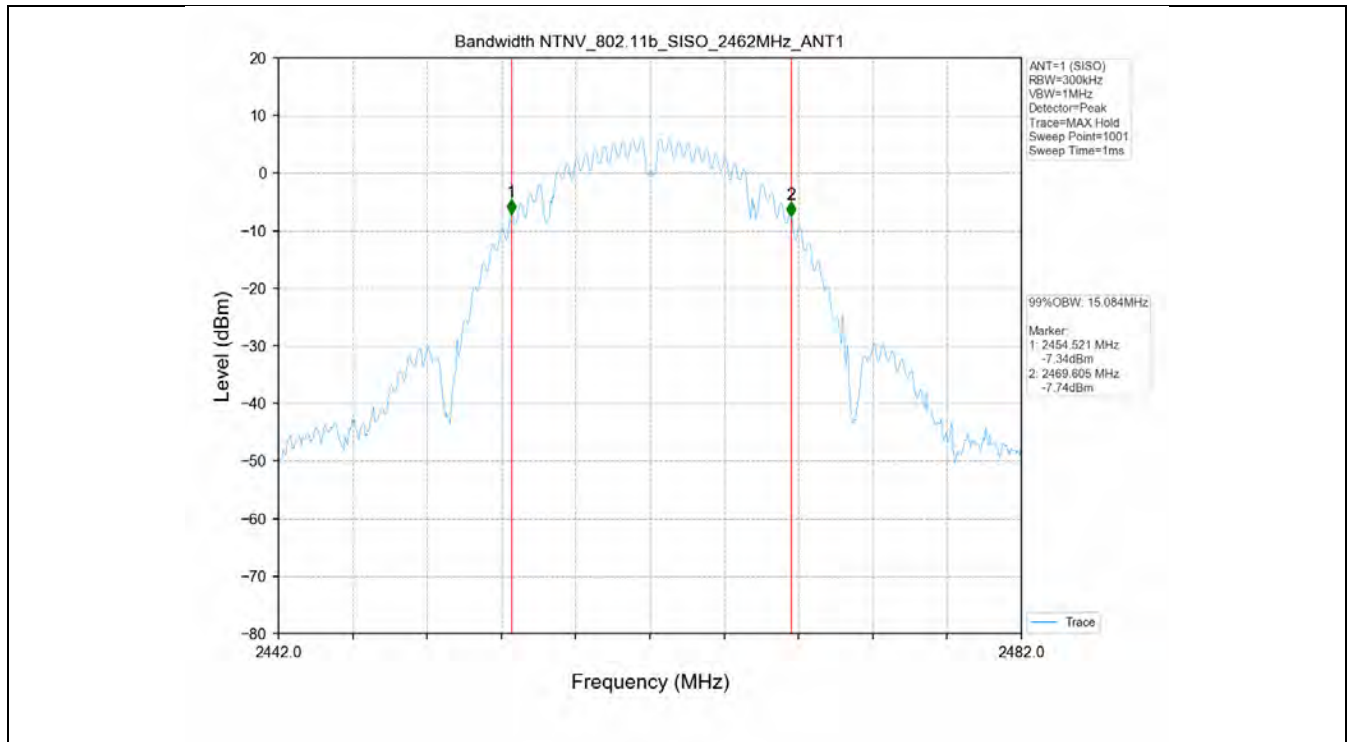


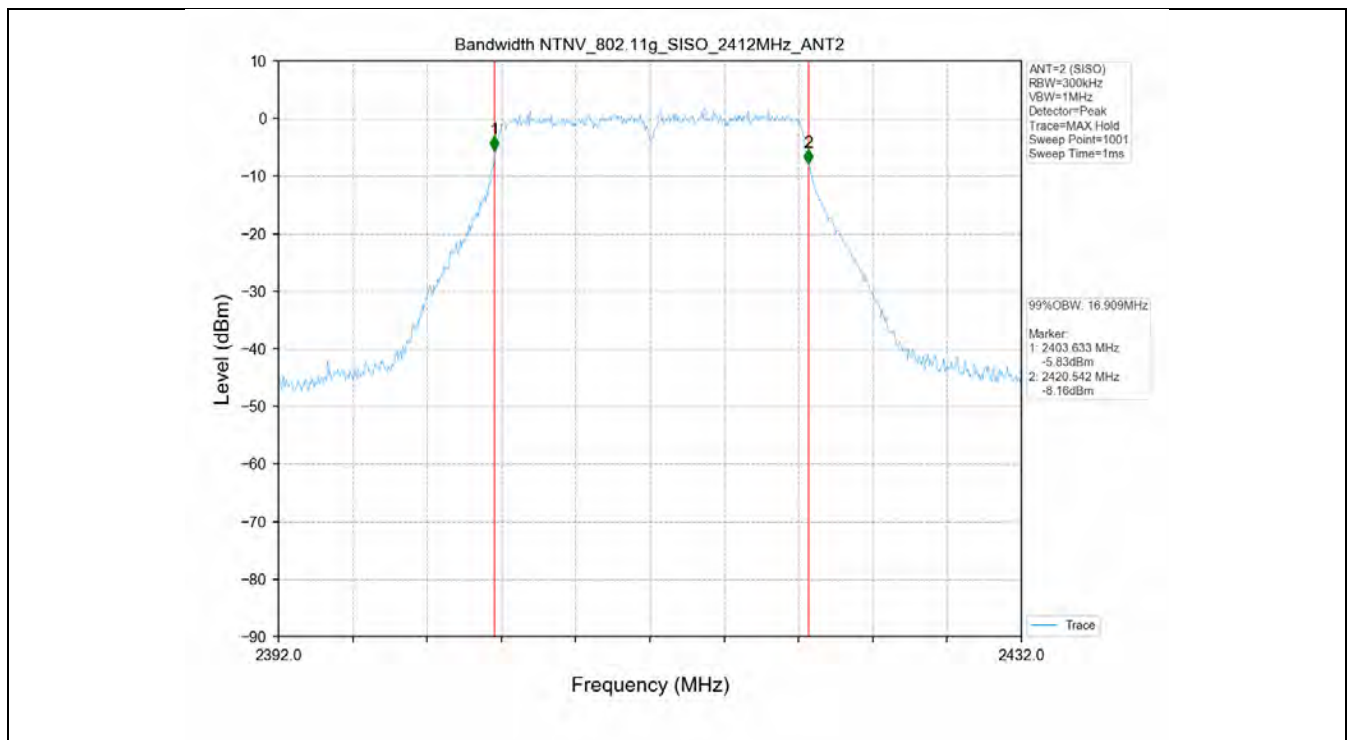
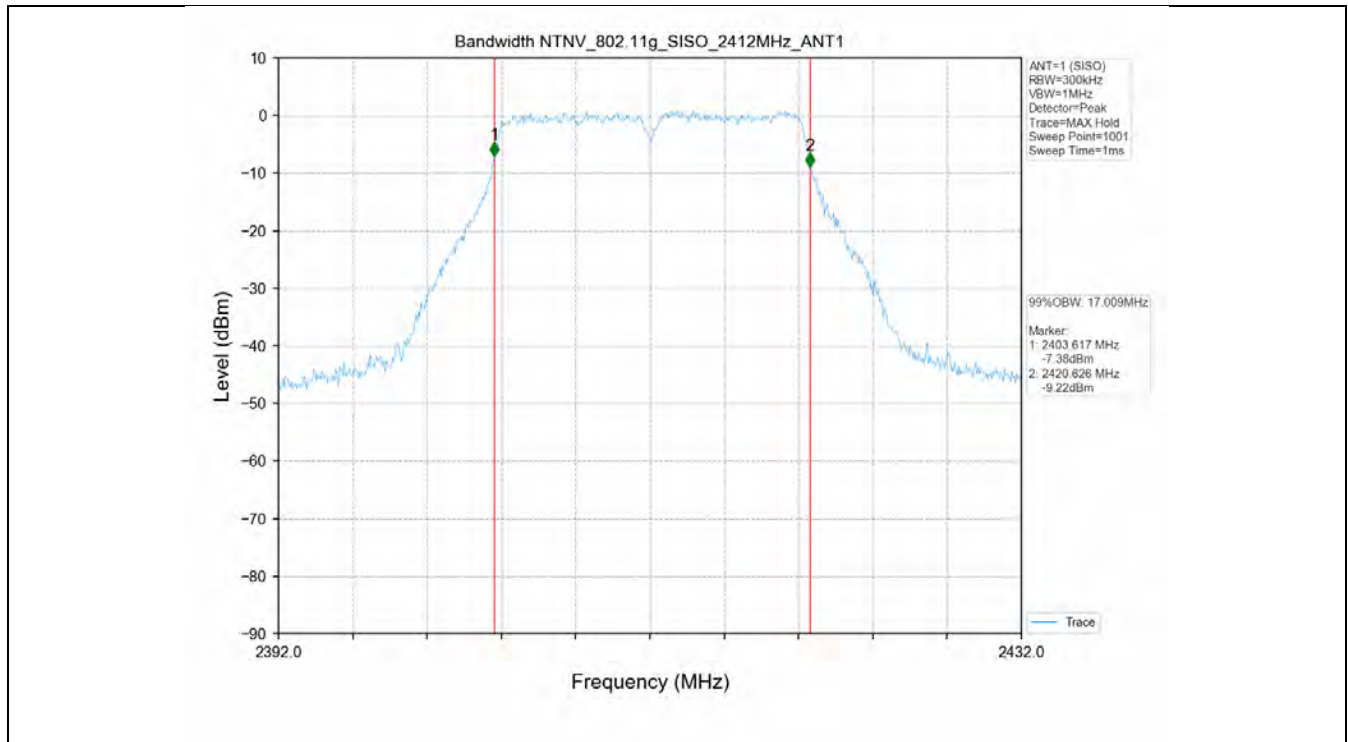


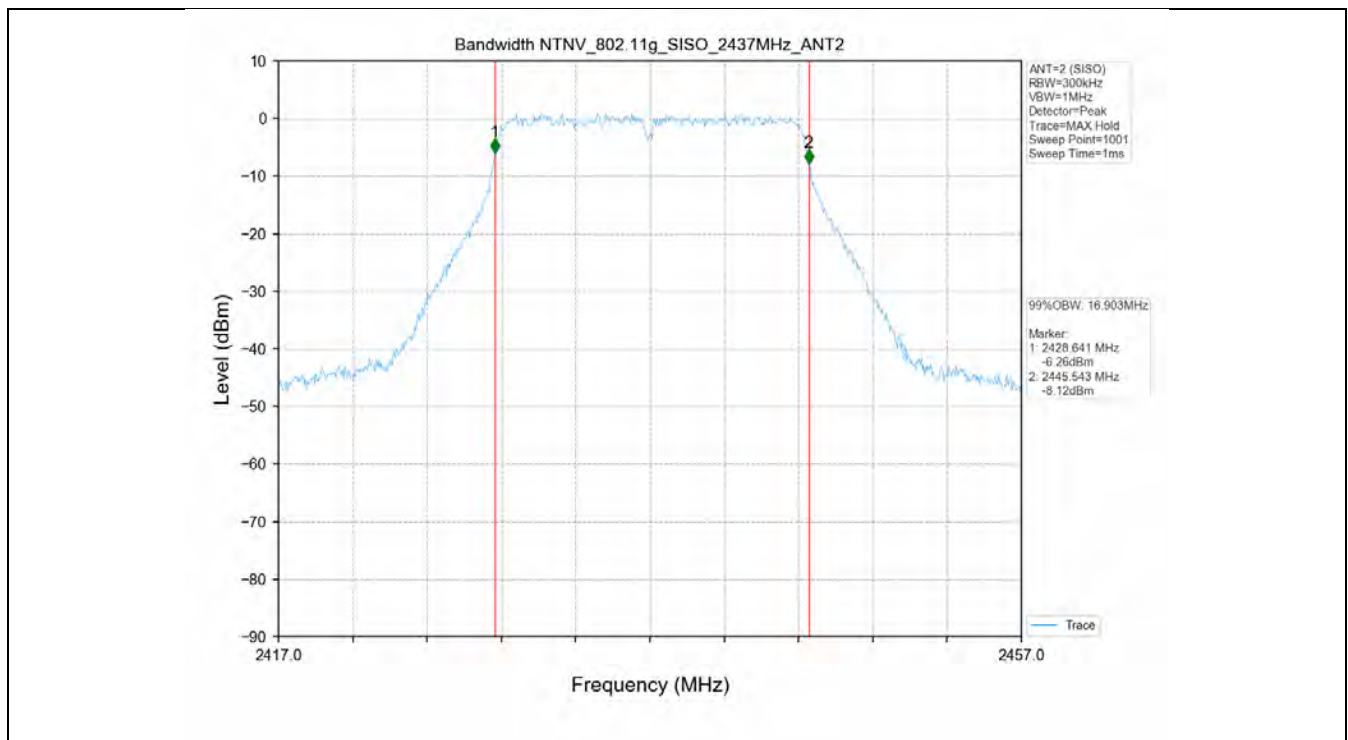
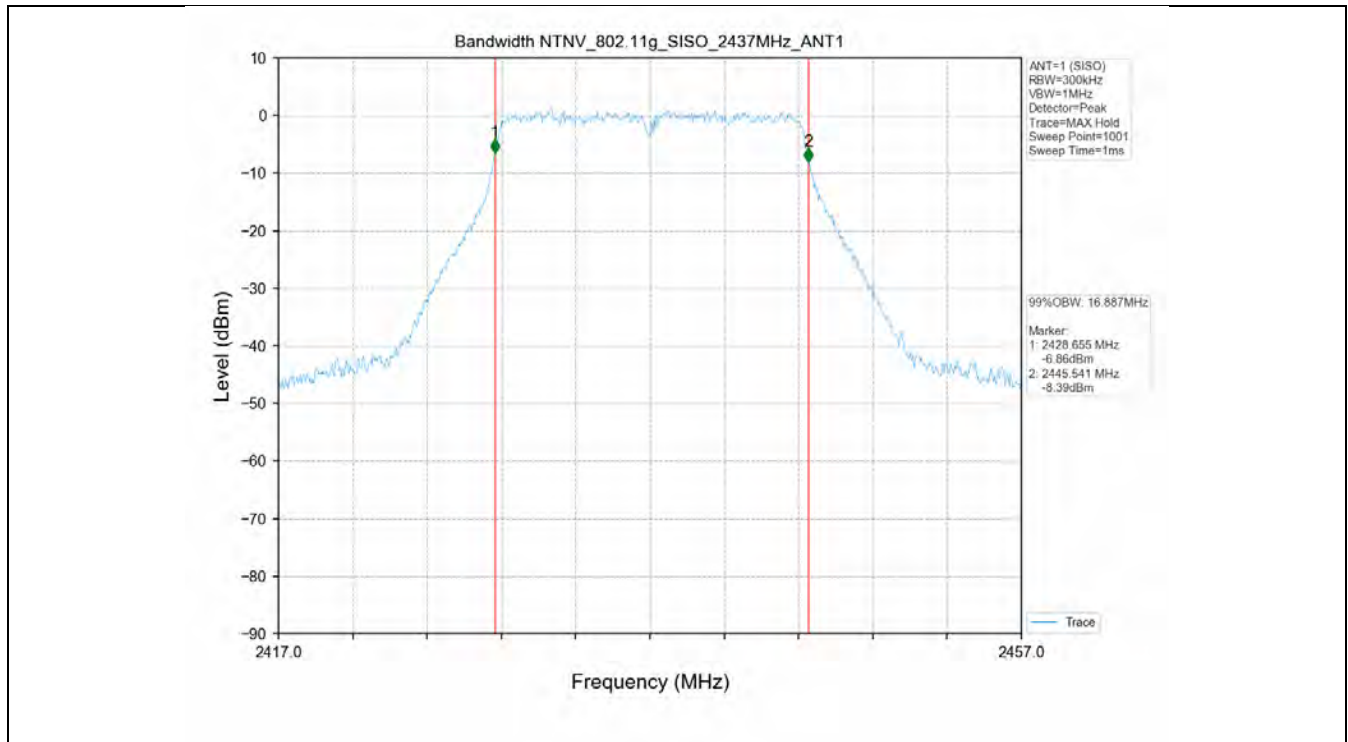
2.3 Test Graph - 99% Occupied Bandwidth

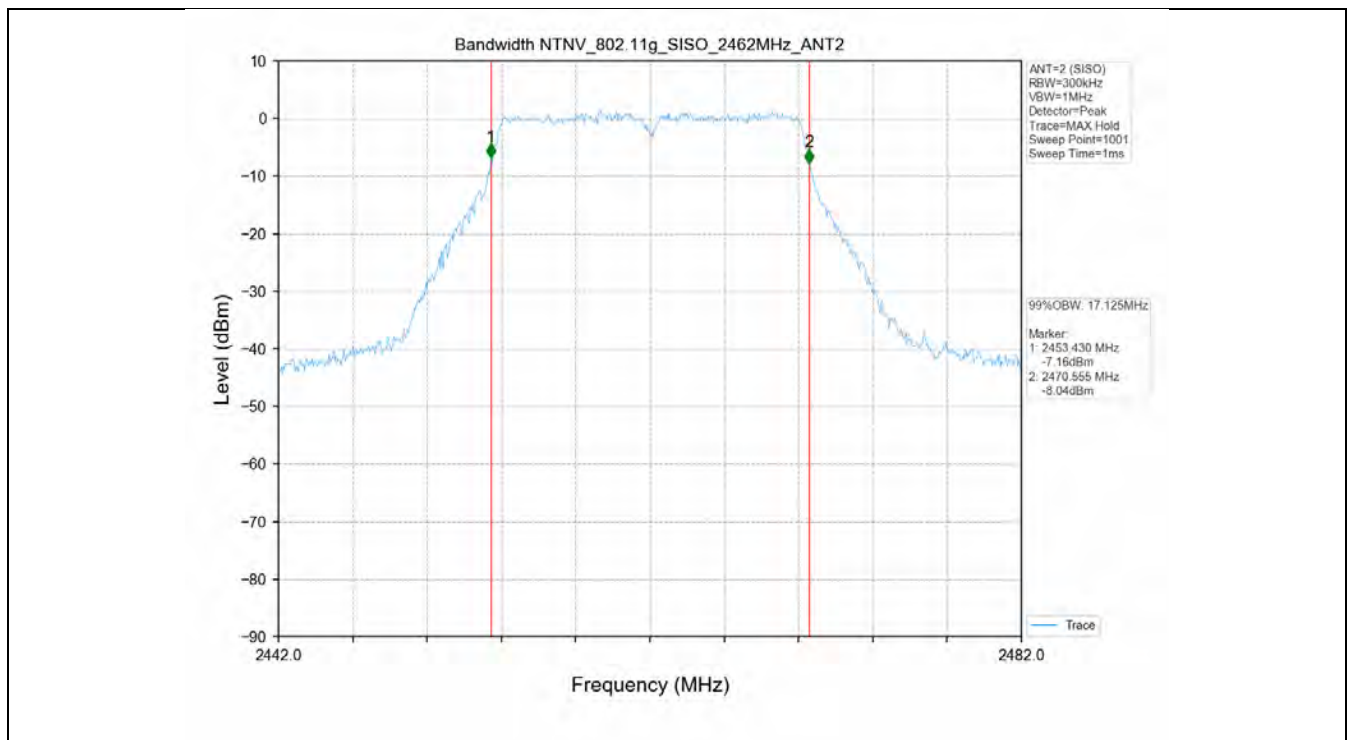
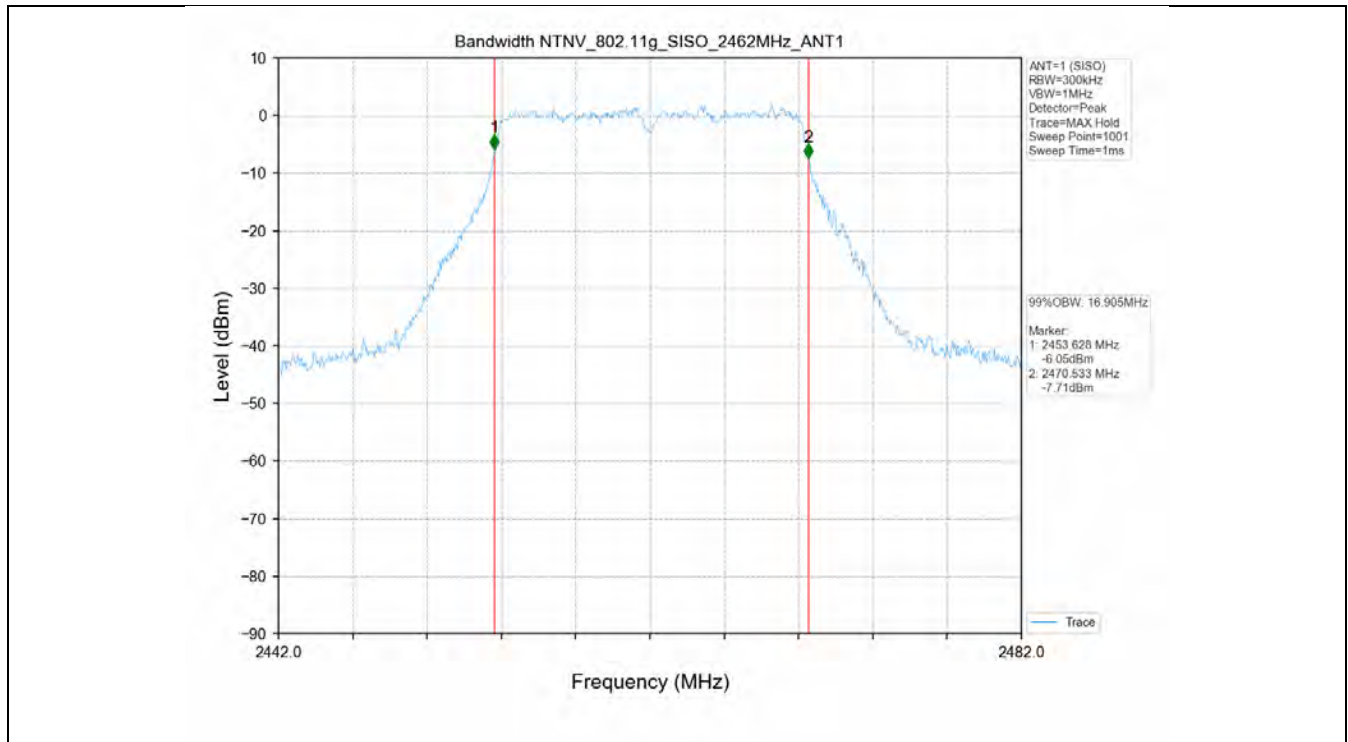


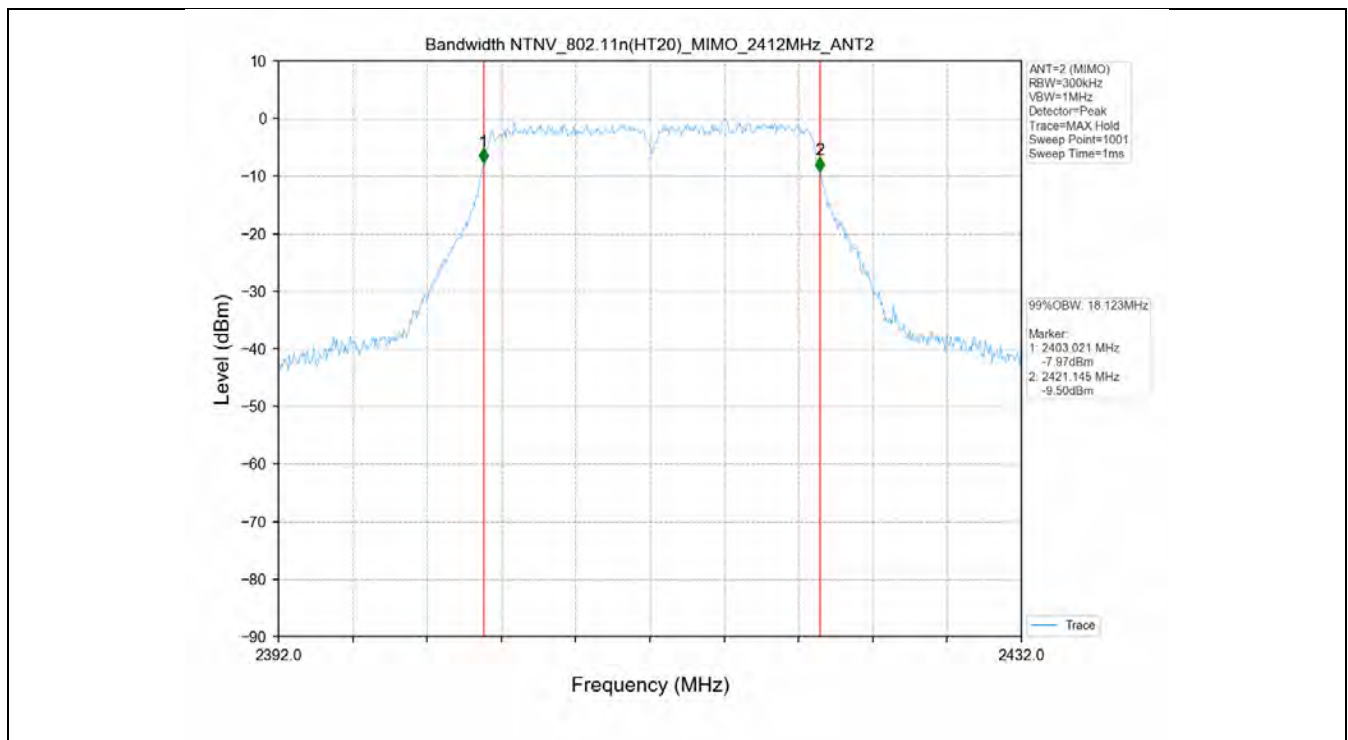
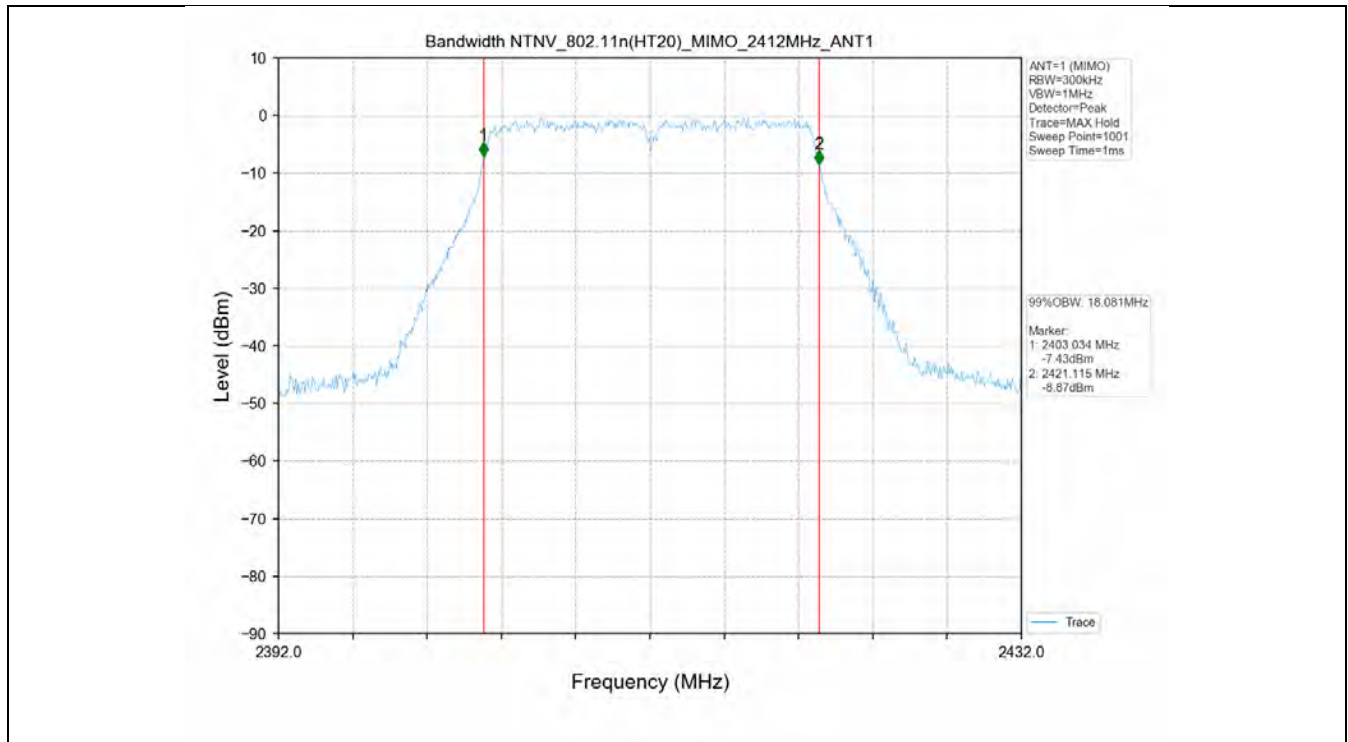


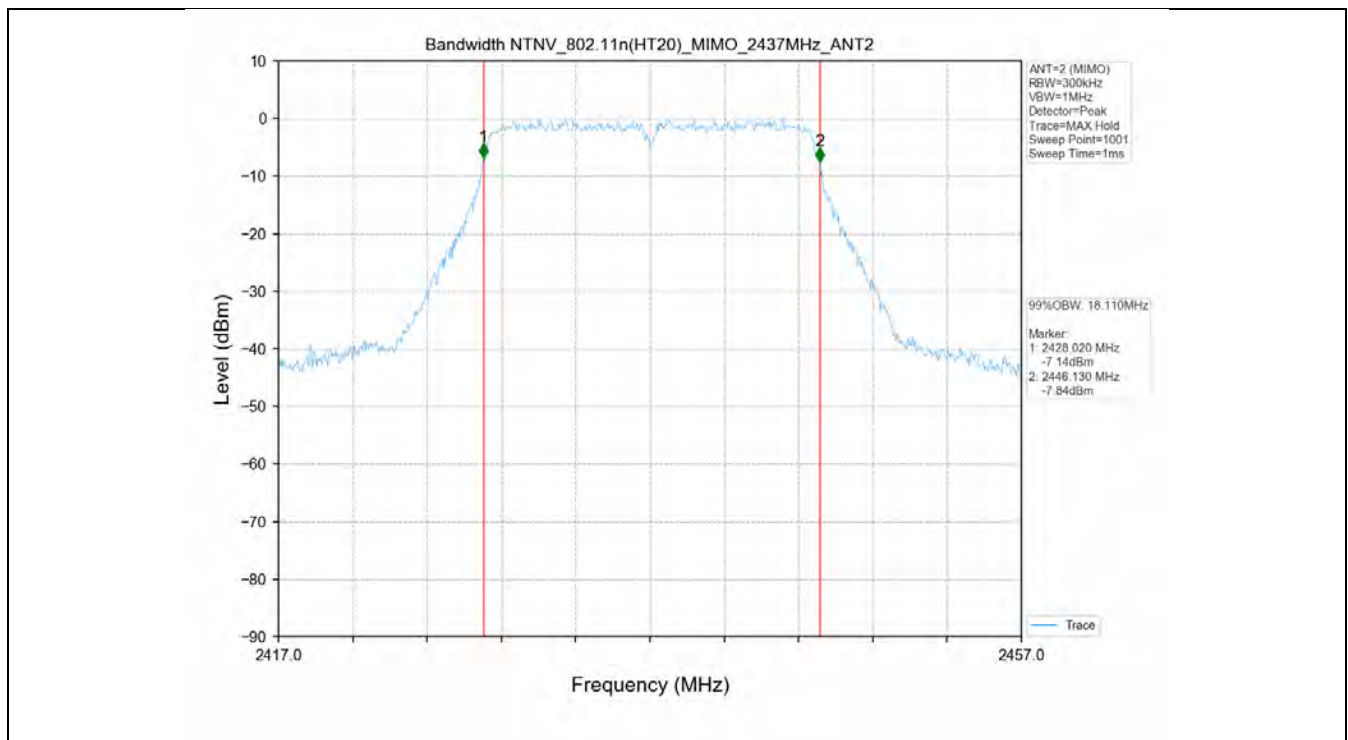
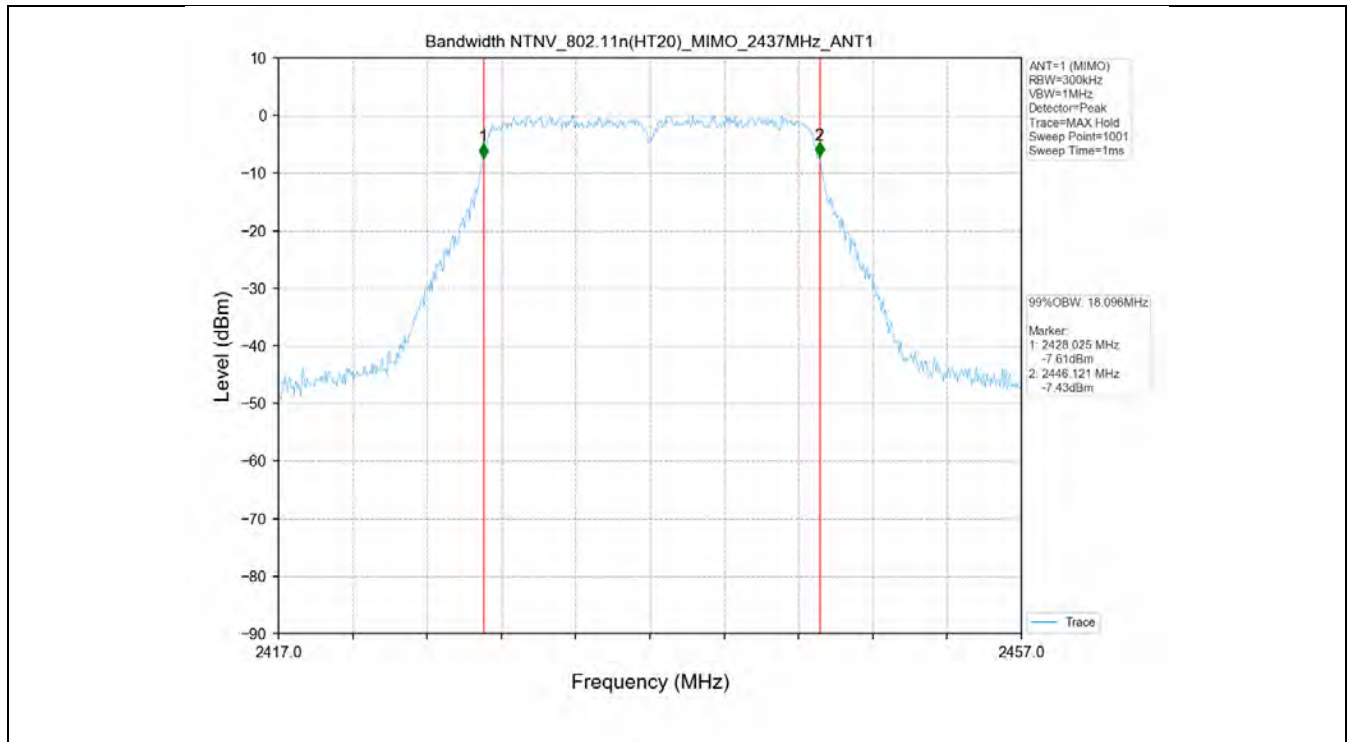


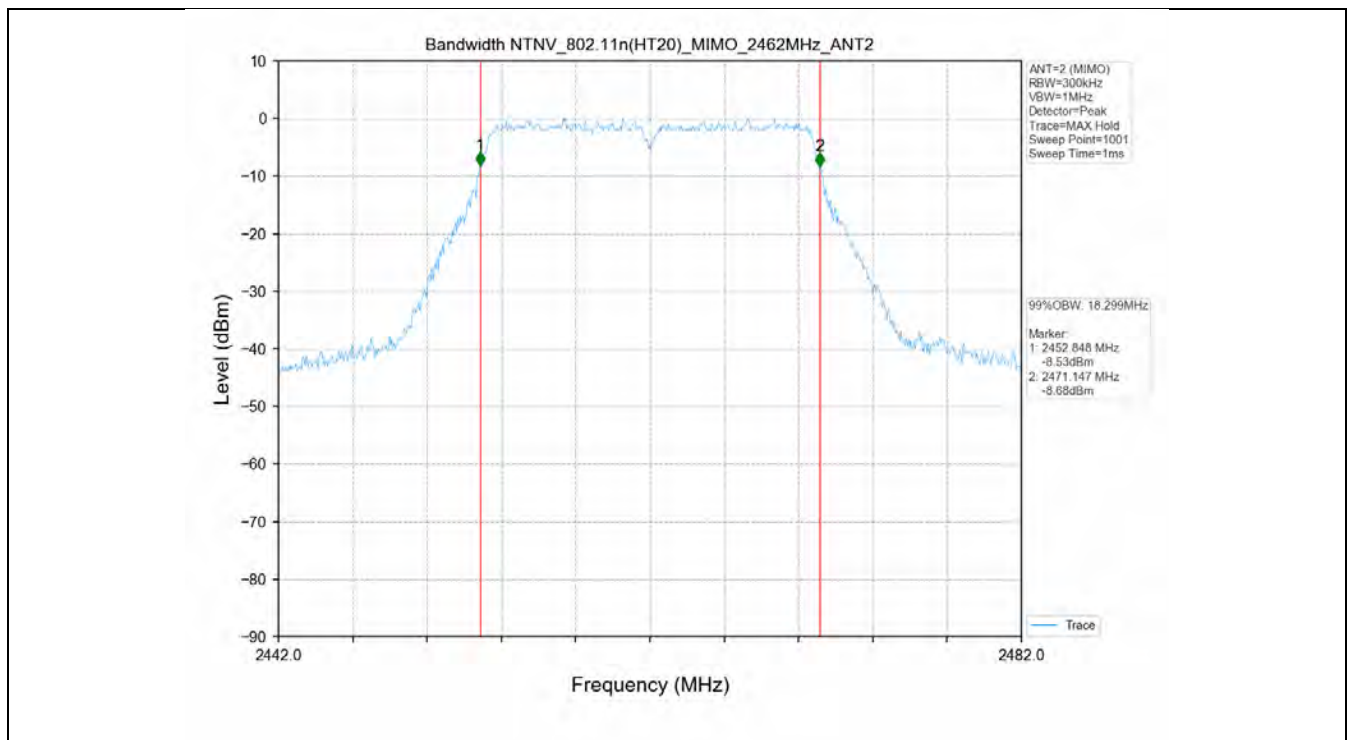
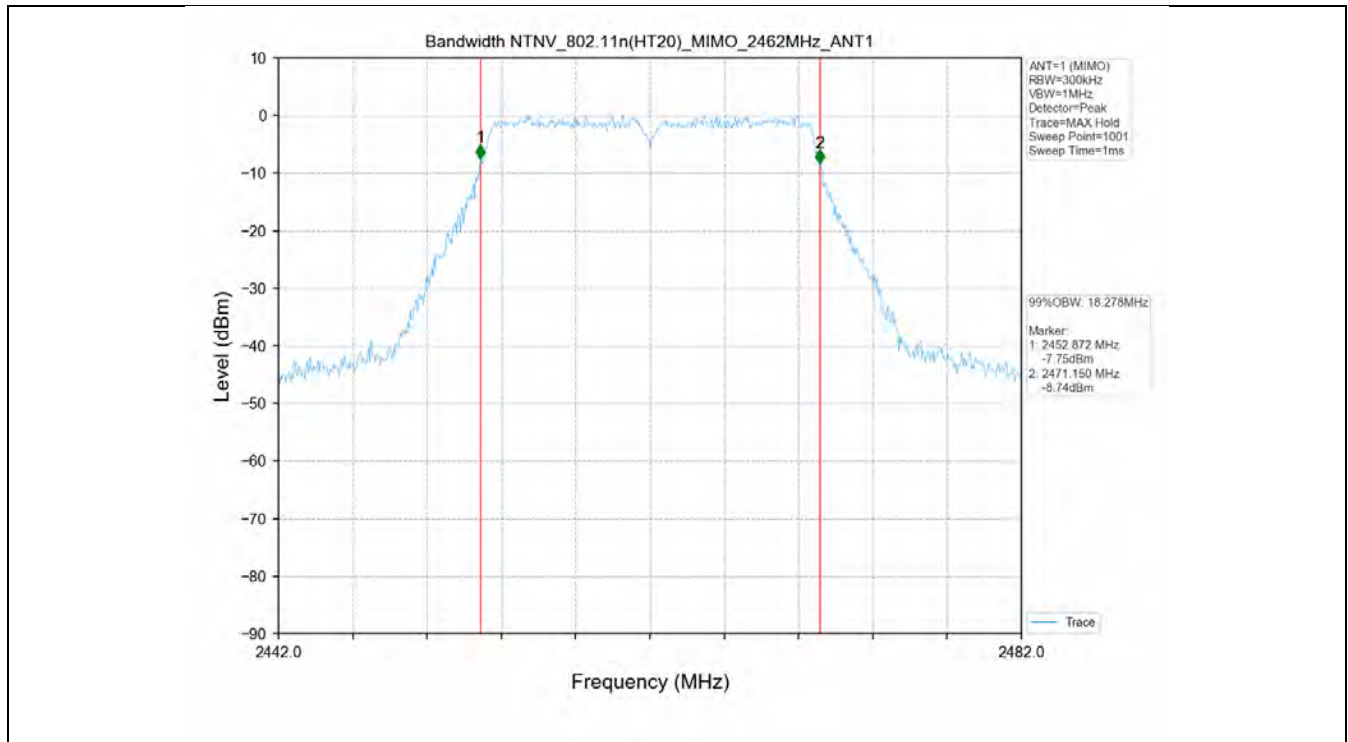


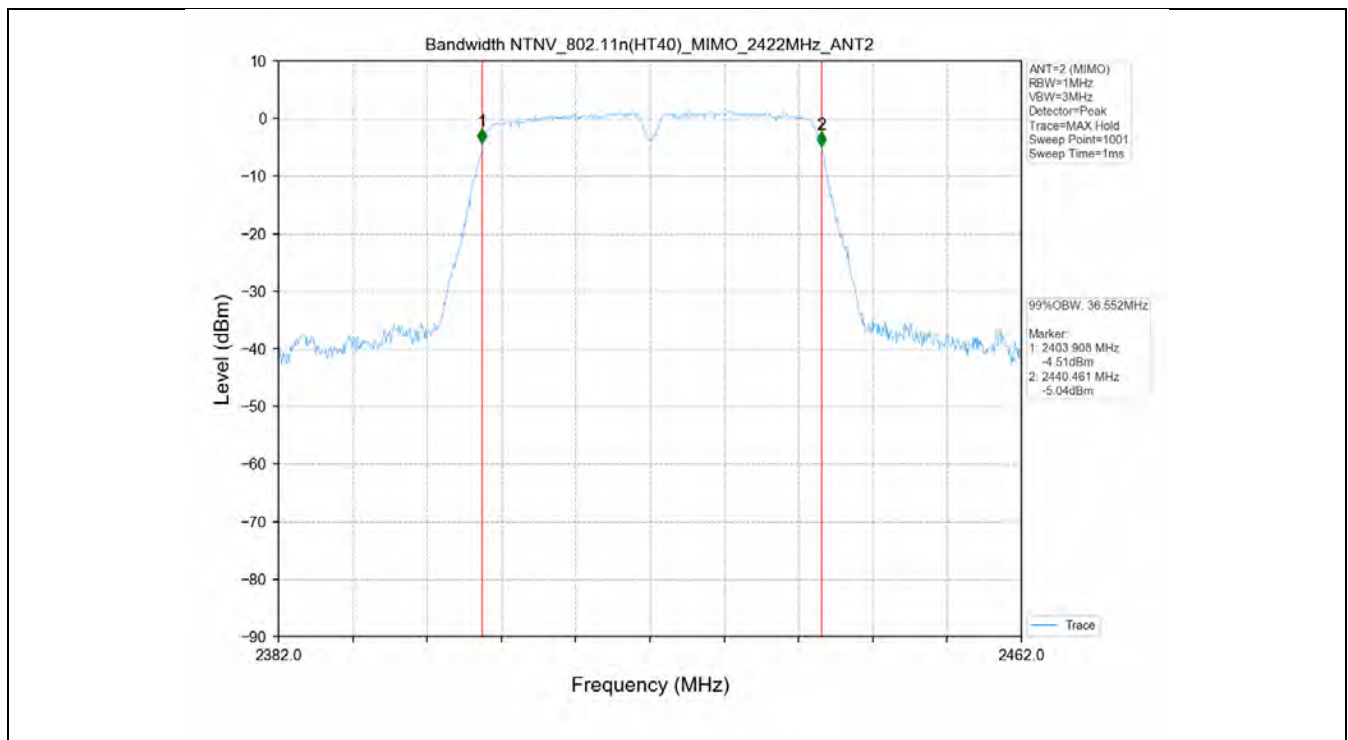
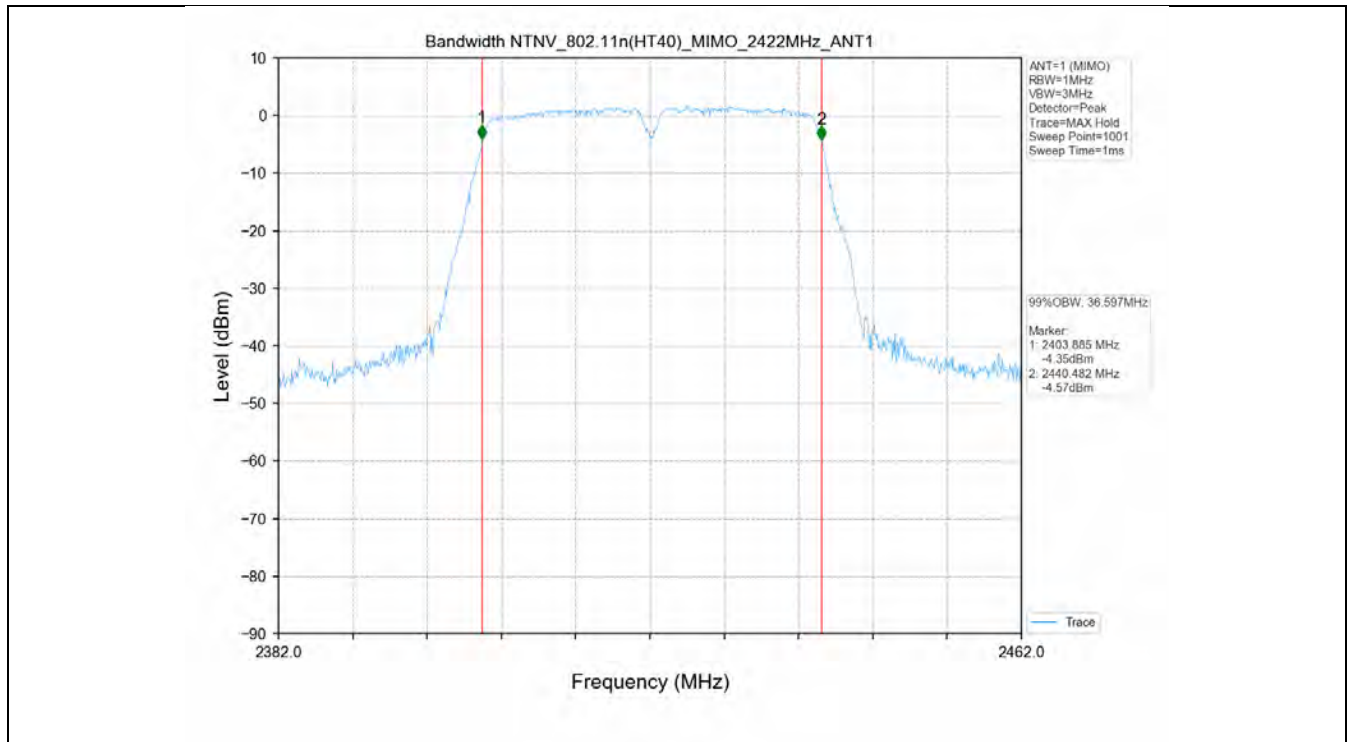


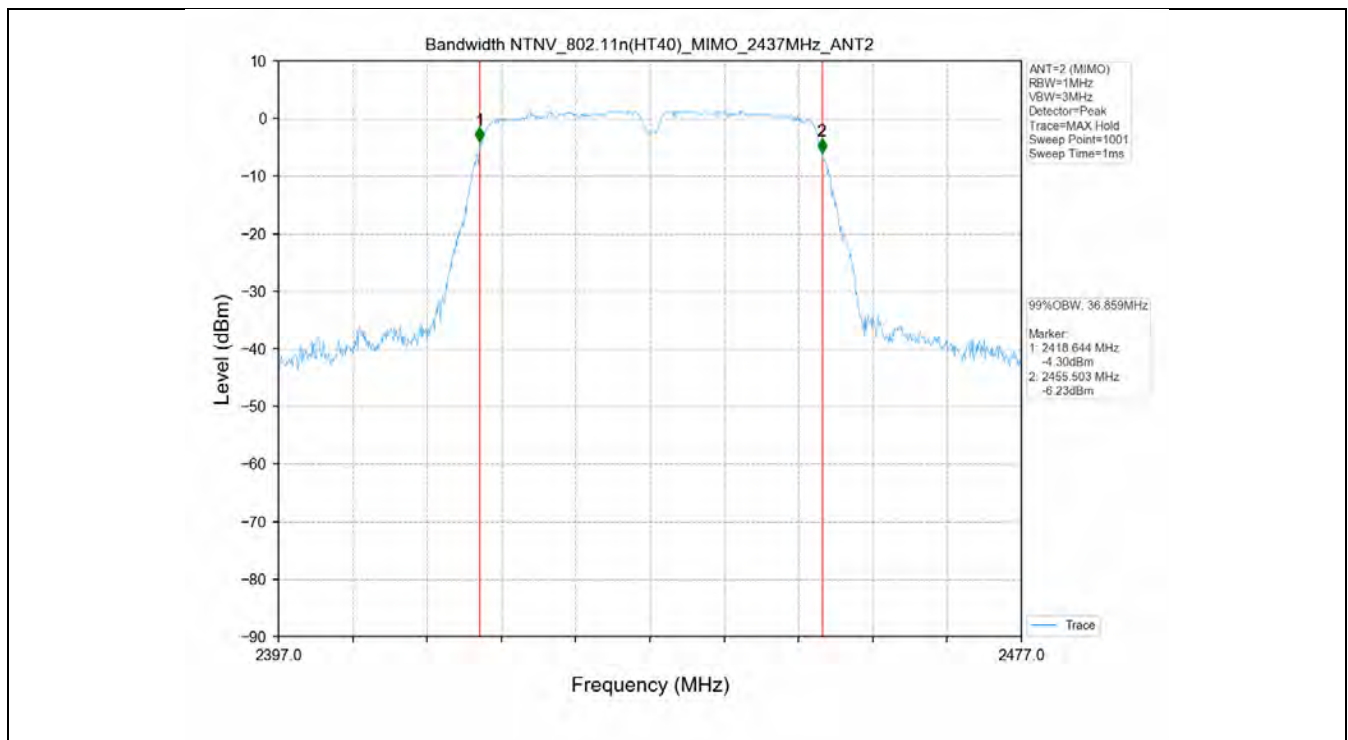
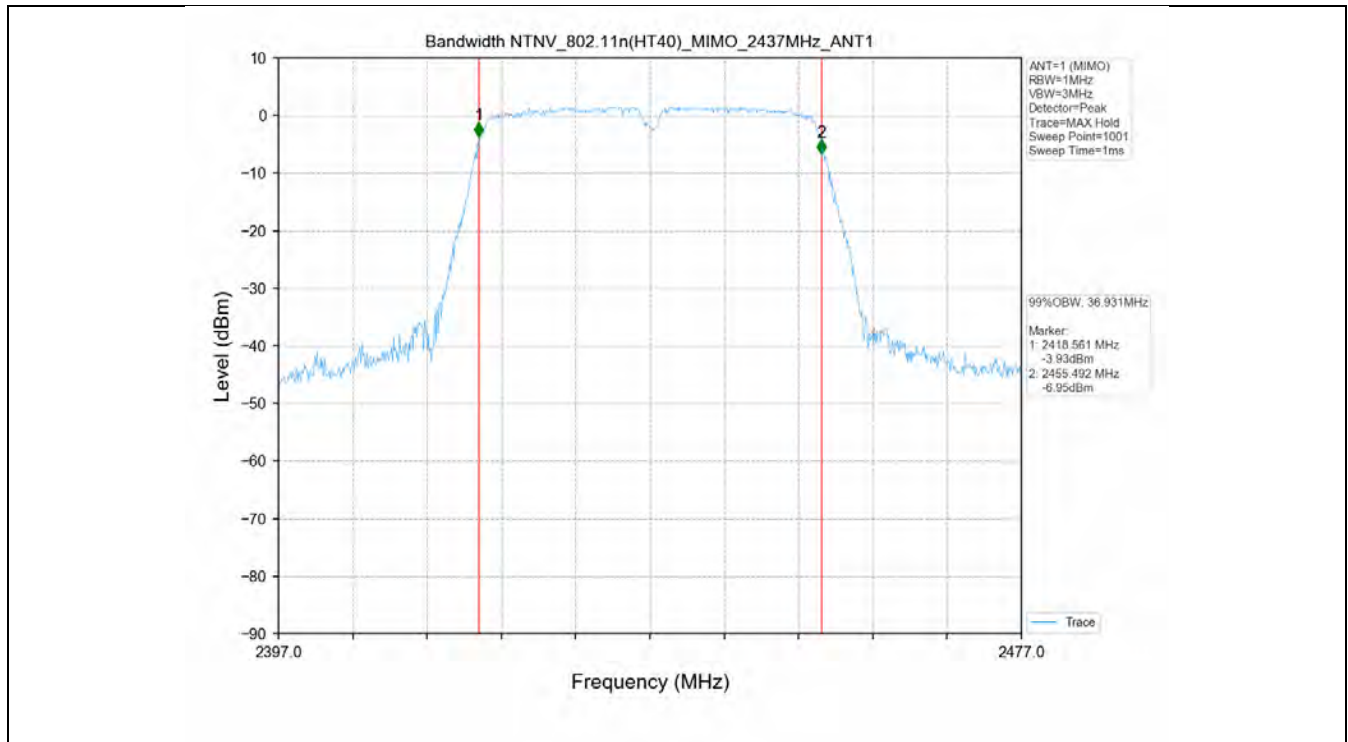


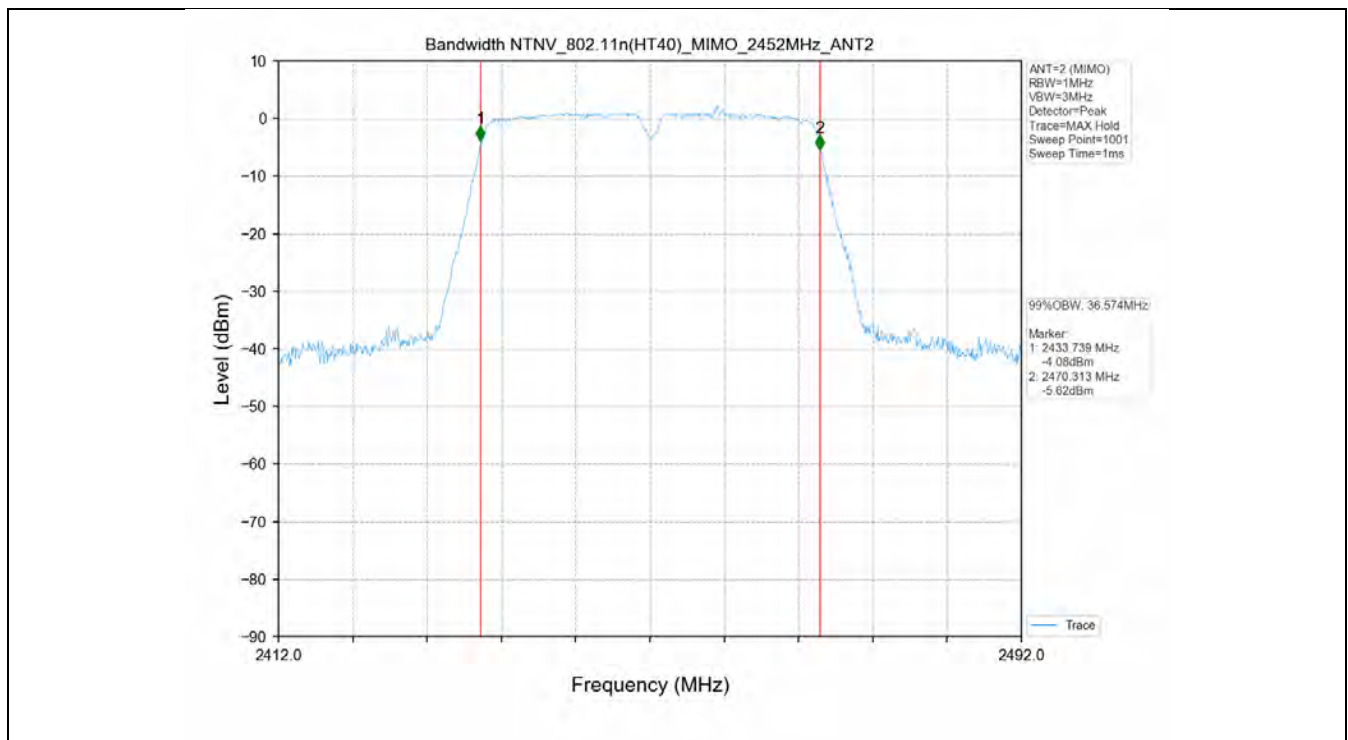
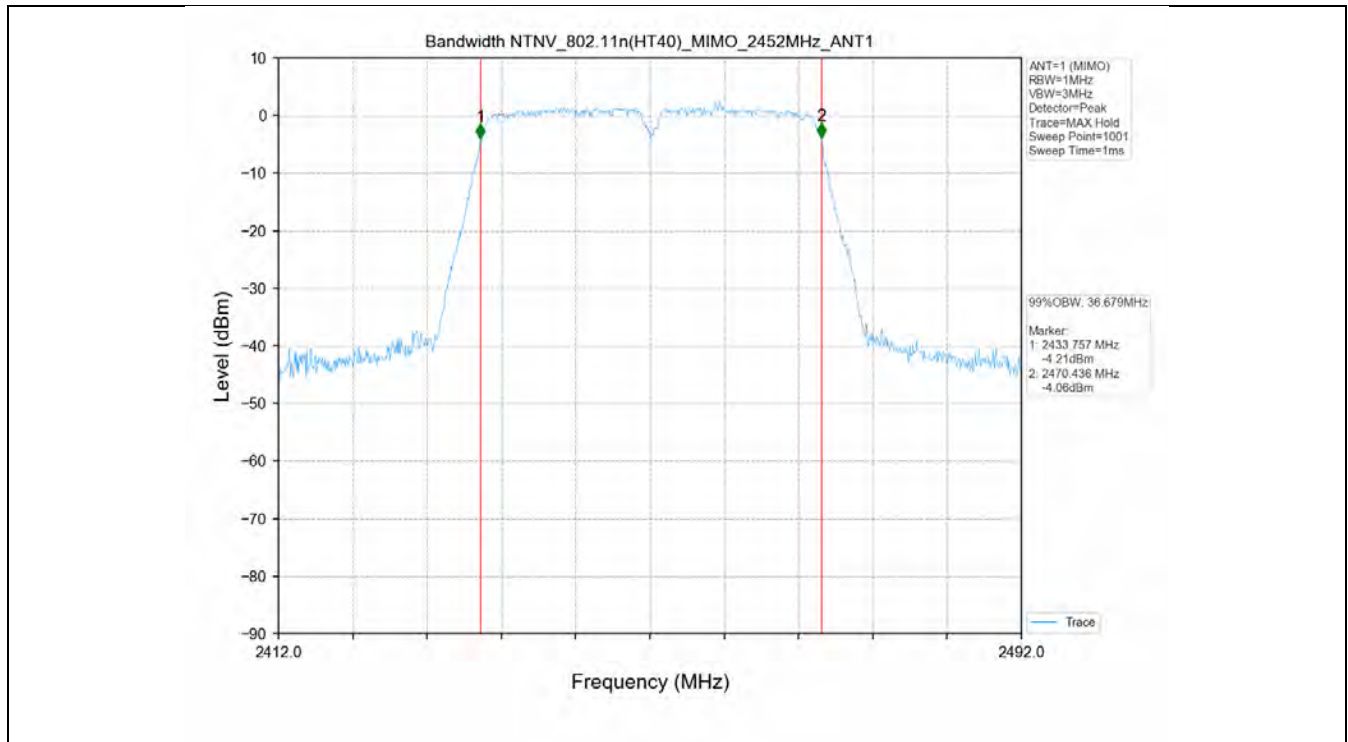












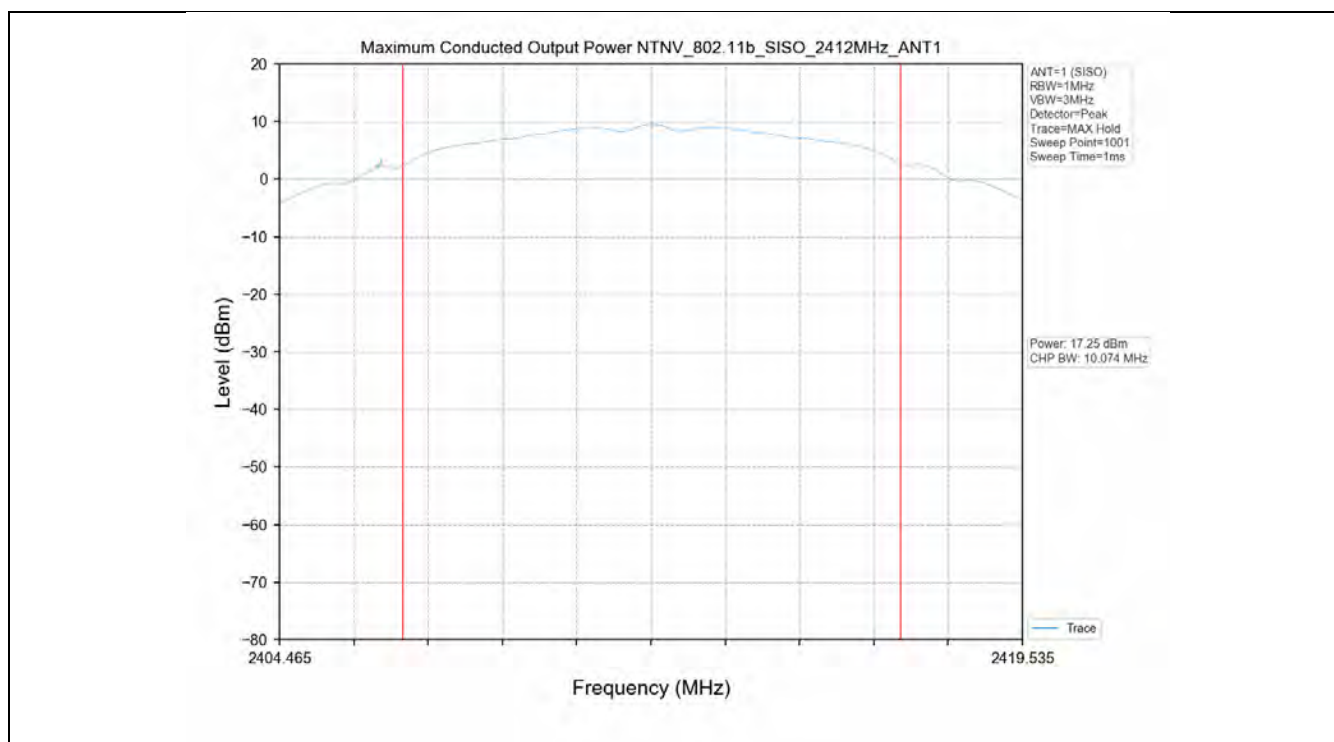


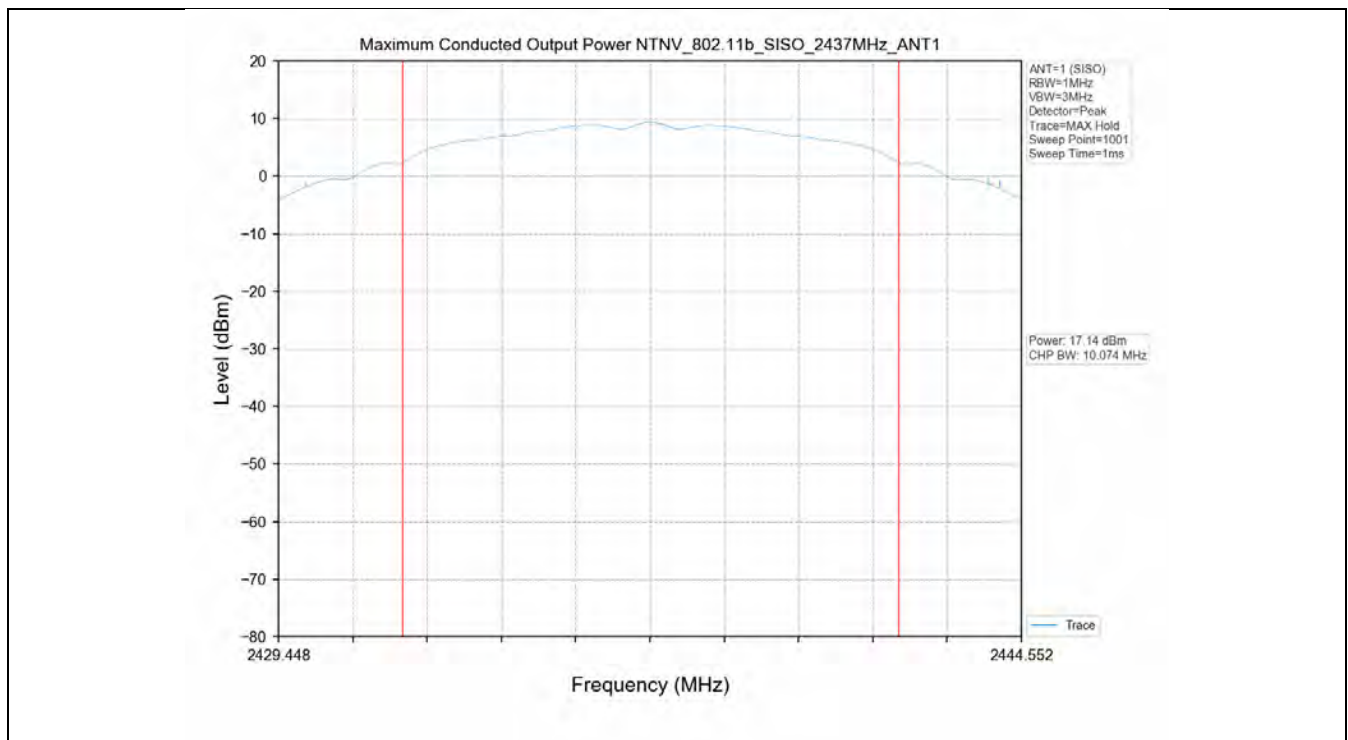
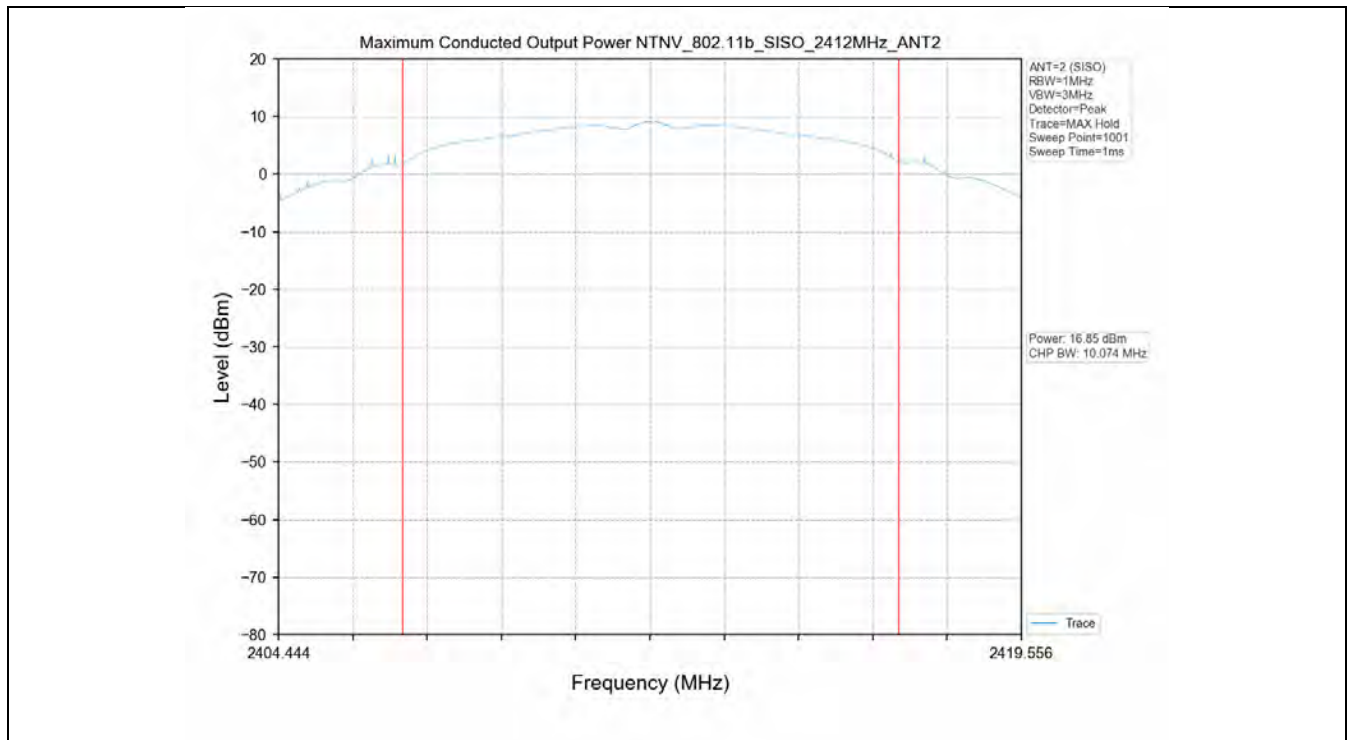
3. Maximum Conducted Output Power

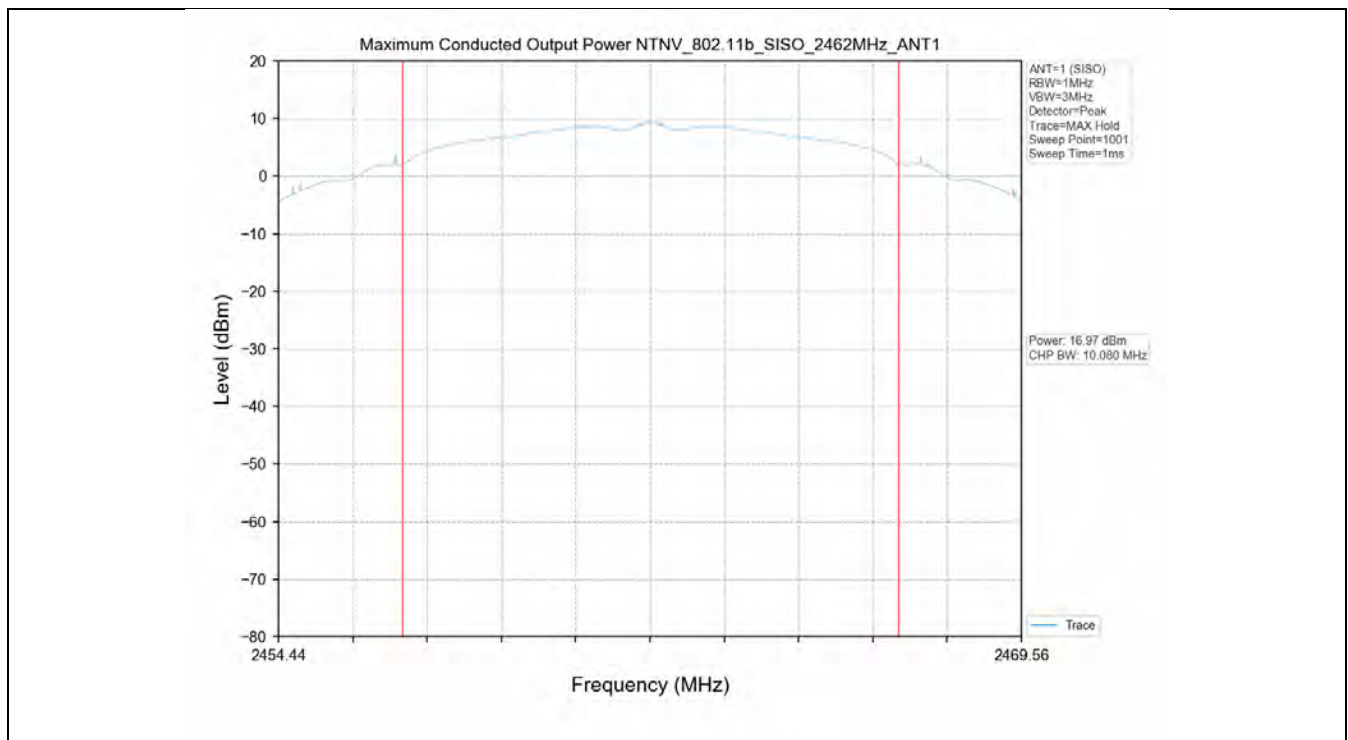
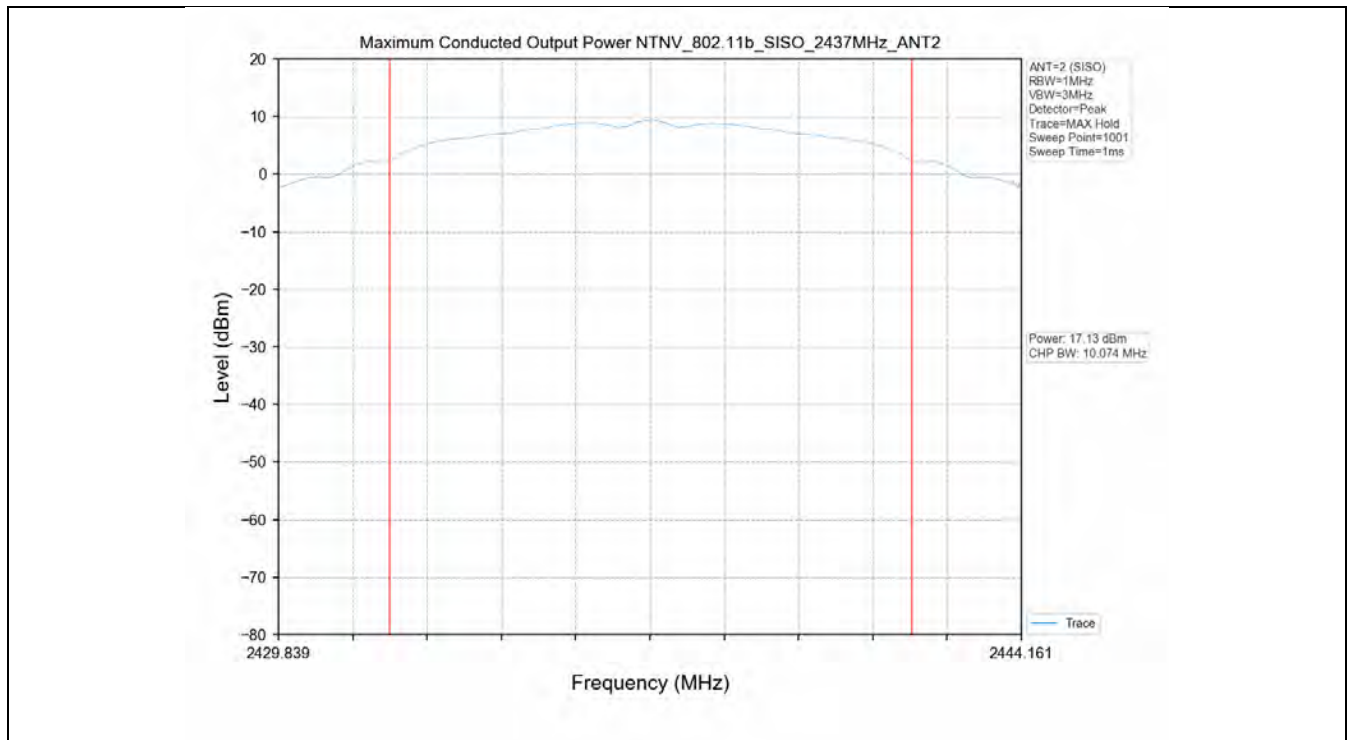
3.1 Test Result

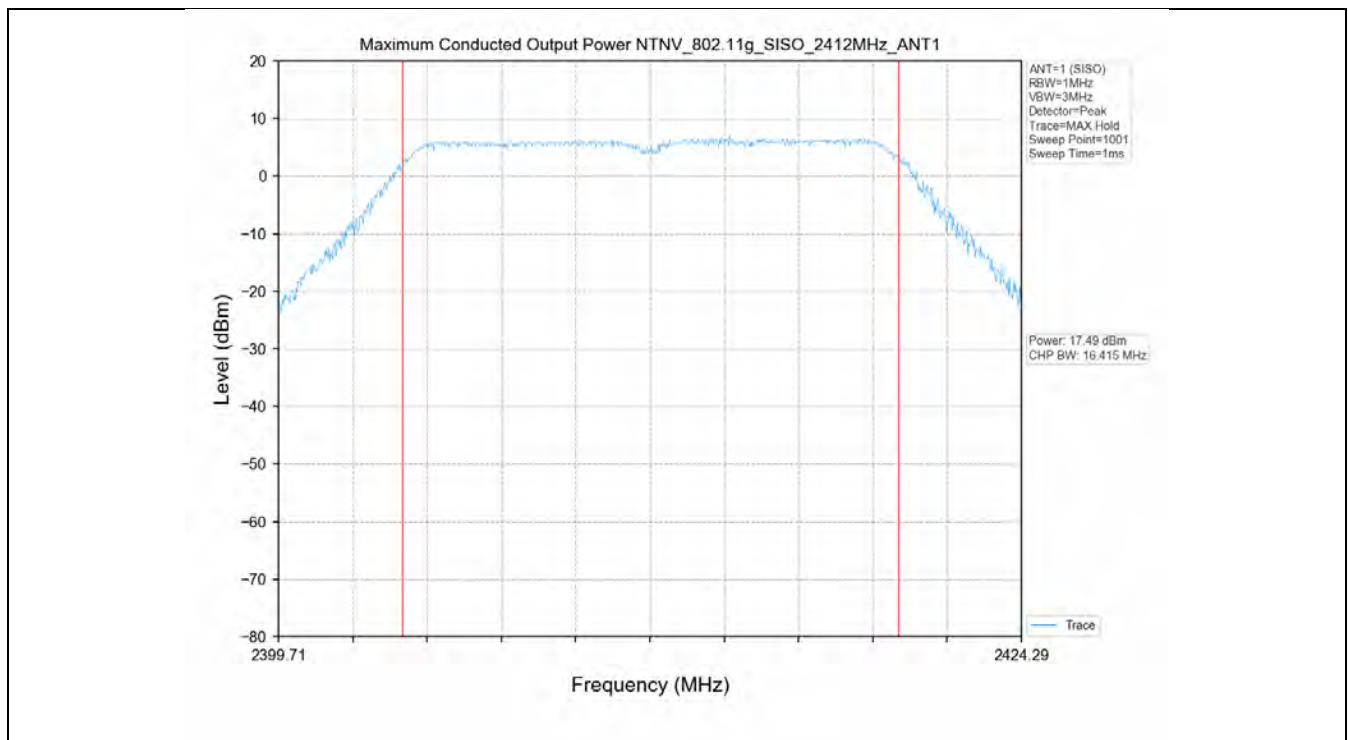
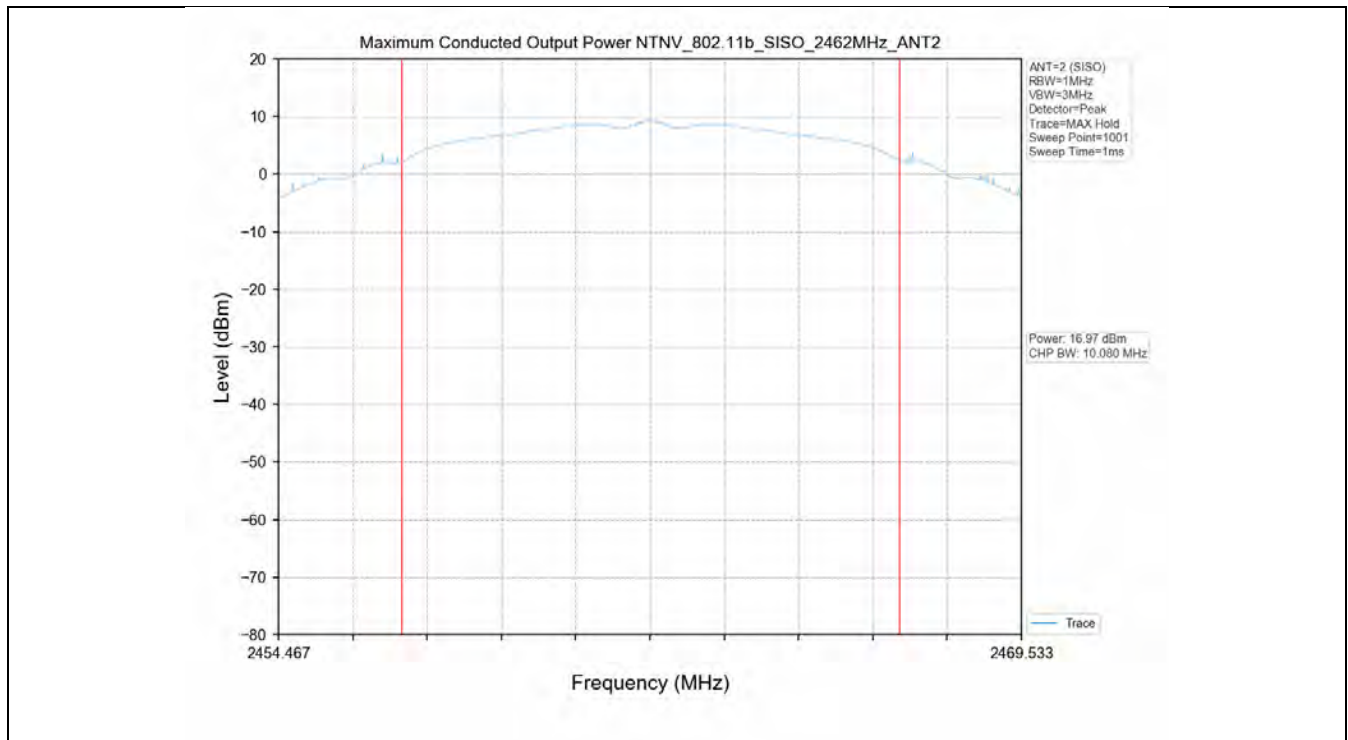
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	17.25	16.85	/	30	PASS
	2437	SISO	17.14	17.13	/	30	PASS
	2462	SISO	16.97	16.97	/	30	PASS
802.11g	2412	SISO	17.49	17.62	/	30	PASS
	2437	SISO	17.52	17.52	/	30	PASS
	2462	SISO	17.92	17.87	/	30	PASS
802.11n(HT20)	2412	MIMO	16.50	16.25	19.39	30	PASS
	2437	MIMO	16.90	16.77	19.85	30	PASS
	2462	MIMO	16.85	16.65	19.76	30	PASS
802.11n(HT40)	2422	MIMO	15.56	15.33	18.46	30	PASS
	2437	MIMO	15.77	15.63	18.71	30	PASS
	2452	MIMO	15.60	15.49	18.56	30	PASS

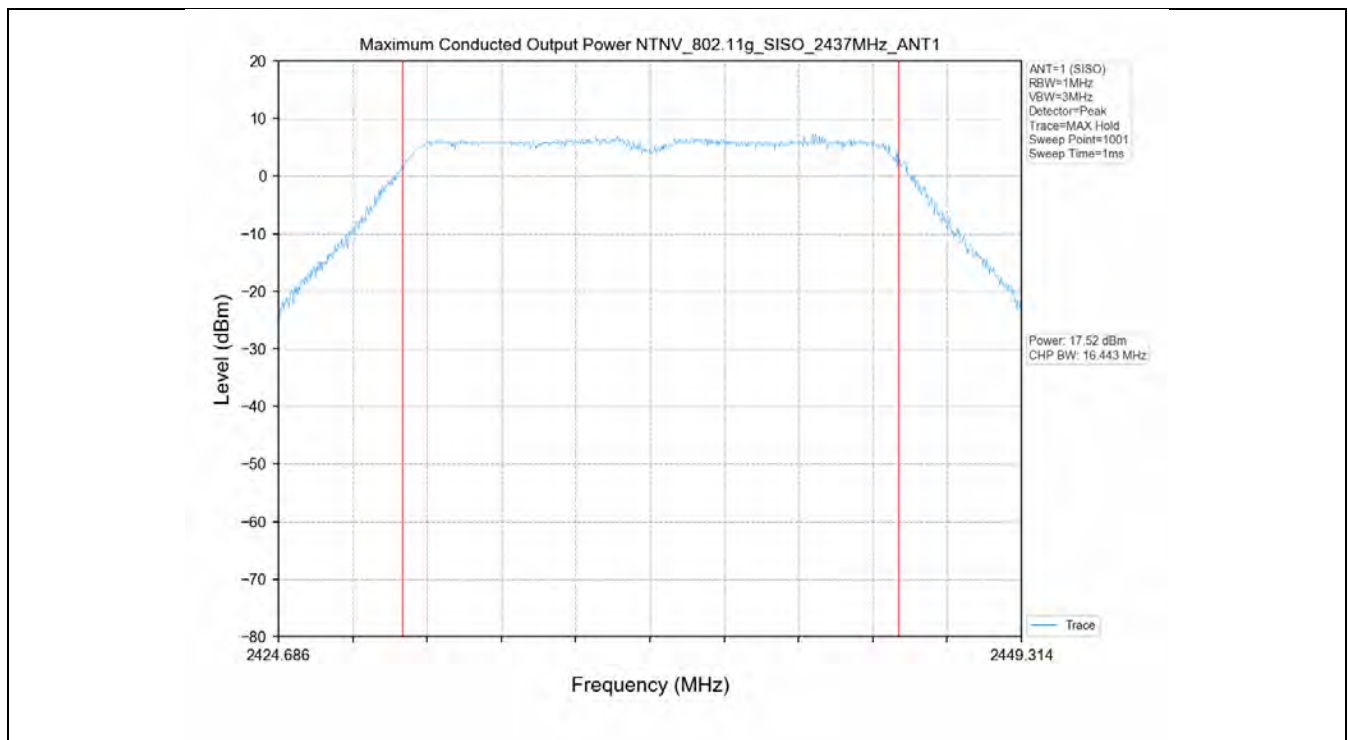
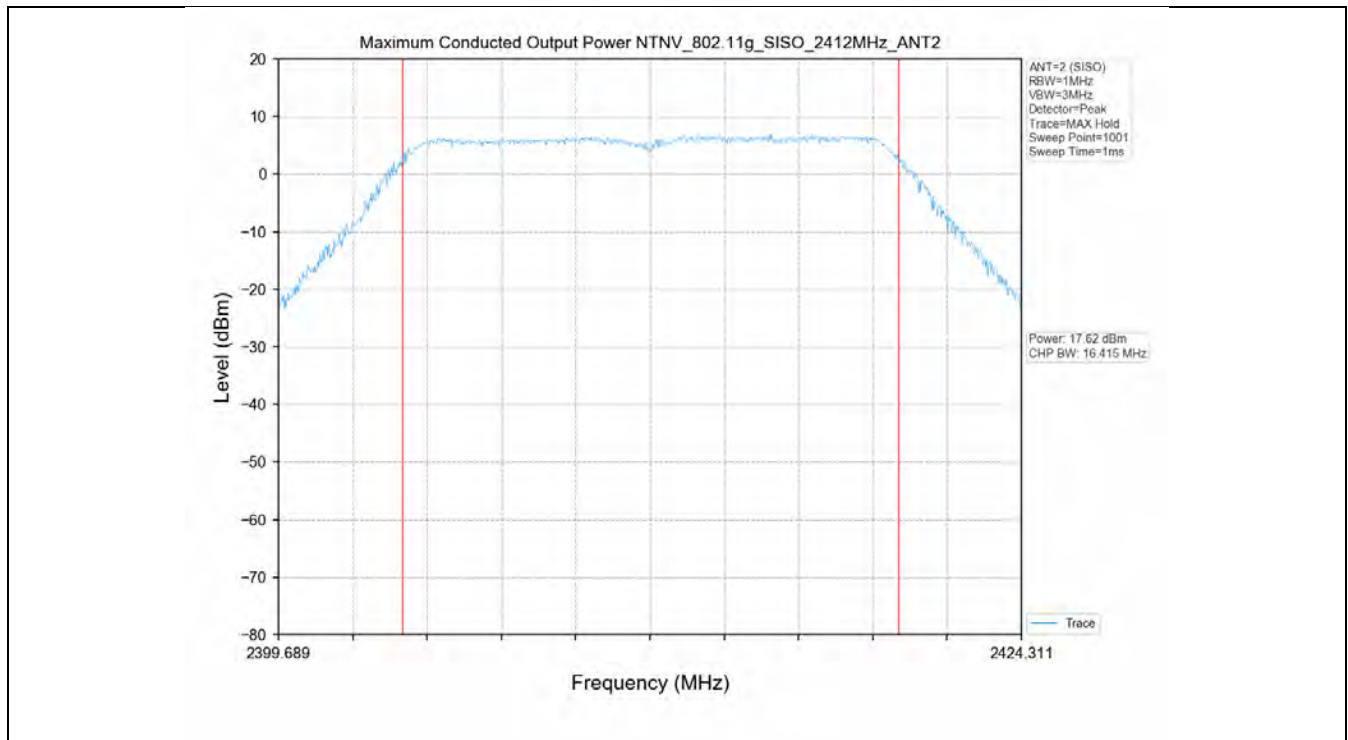
3.2 Test Graph

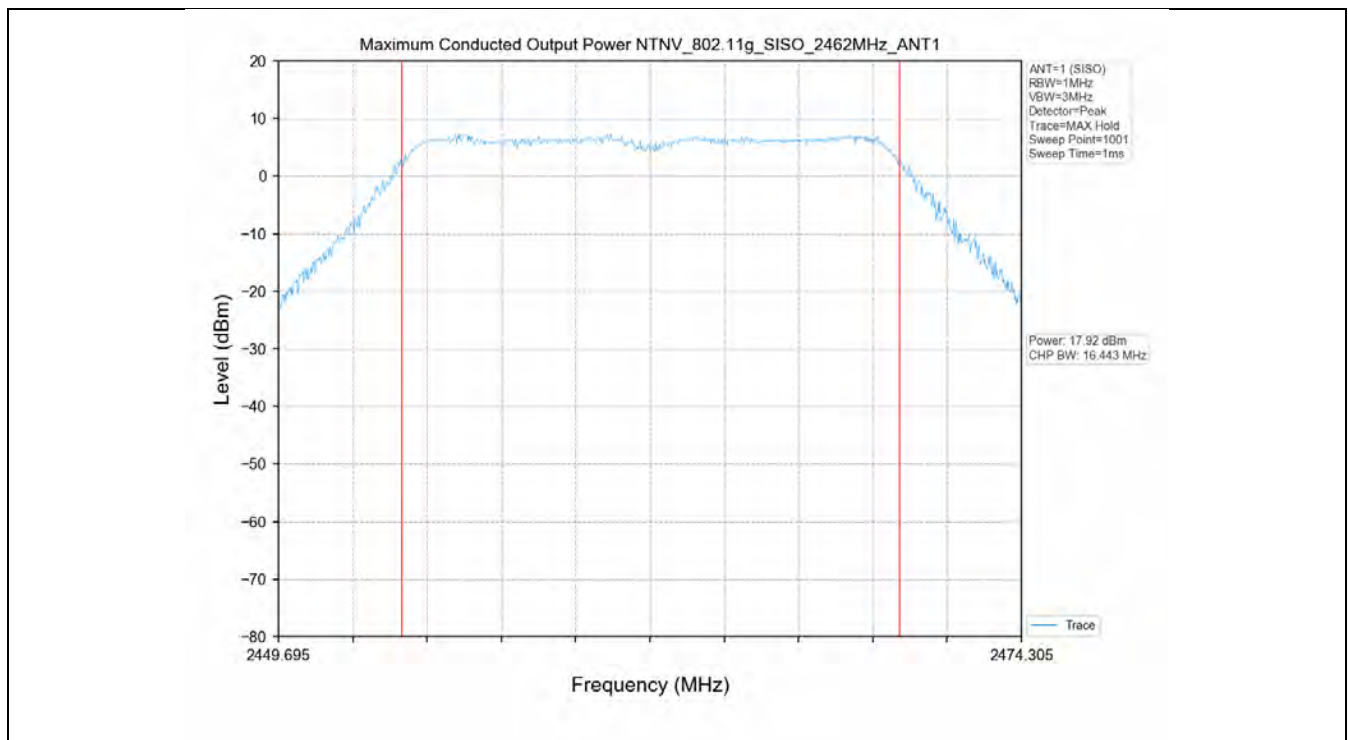
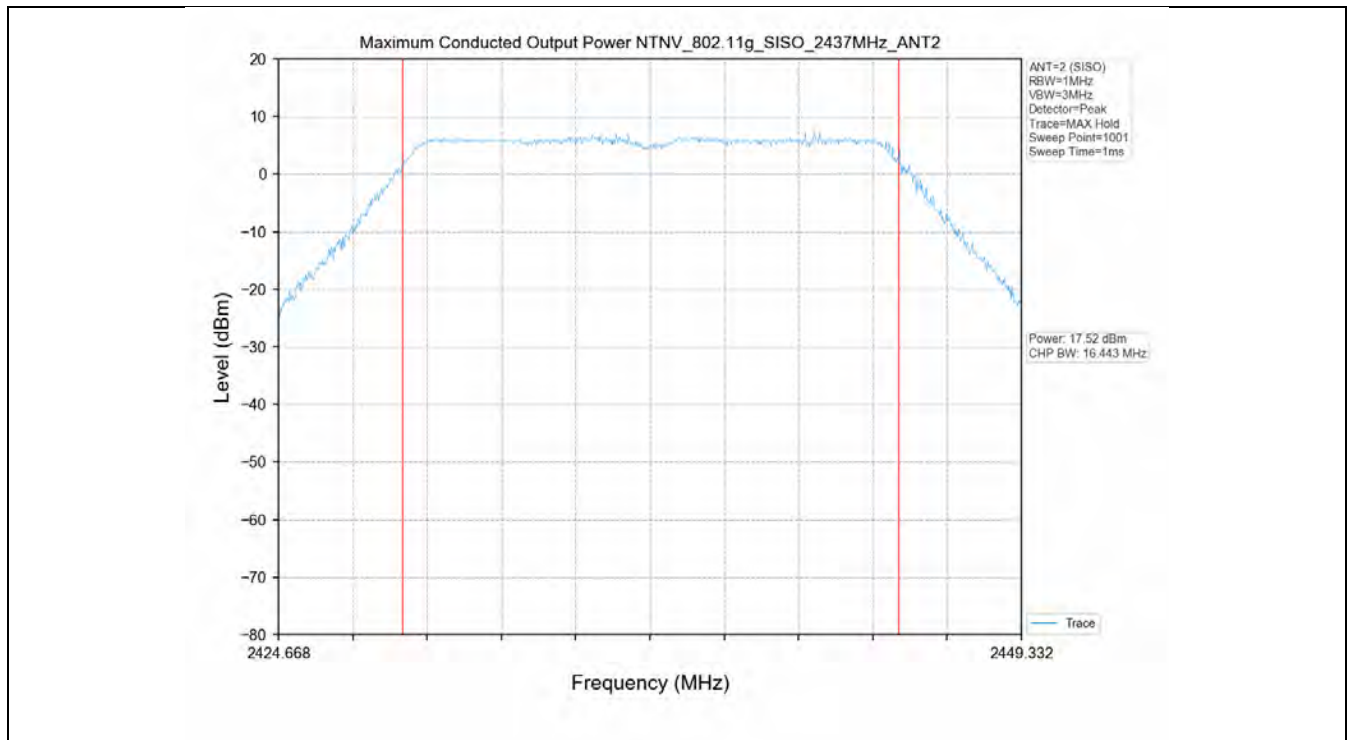


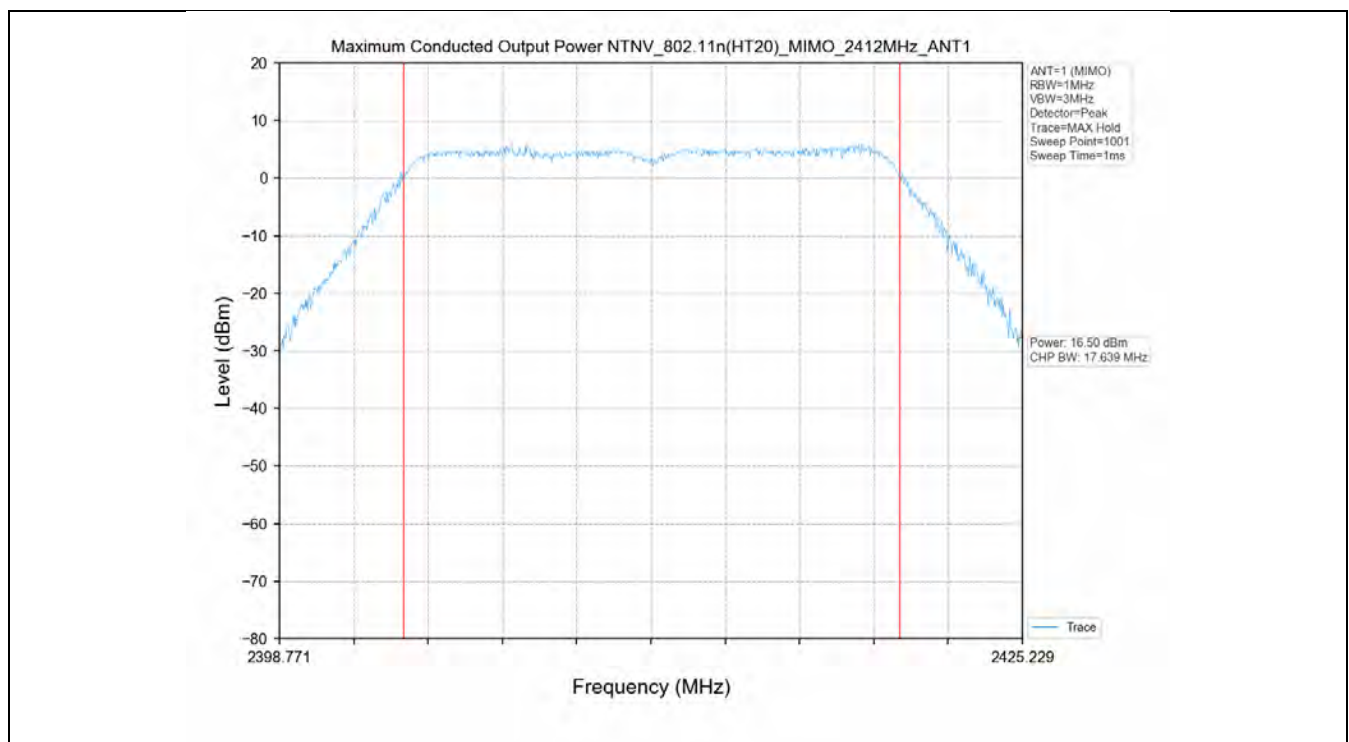
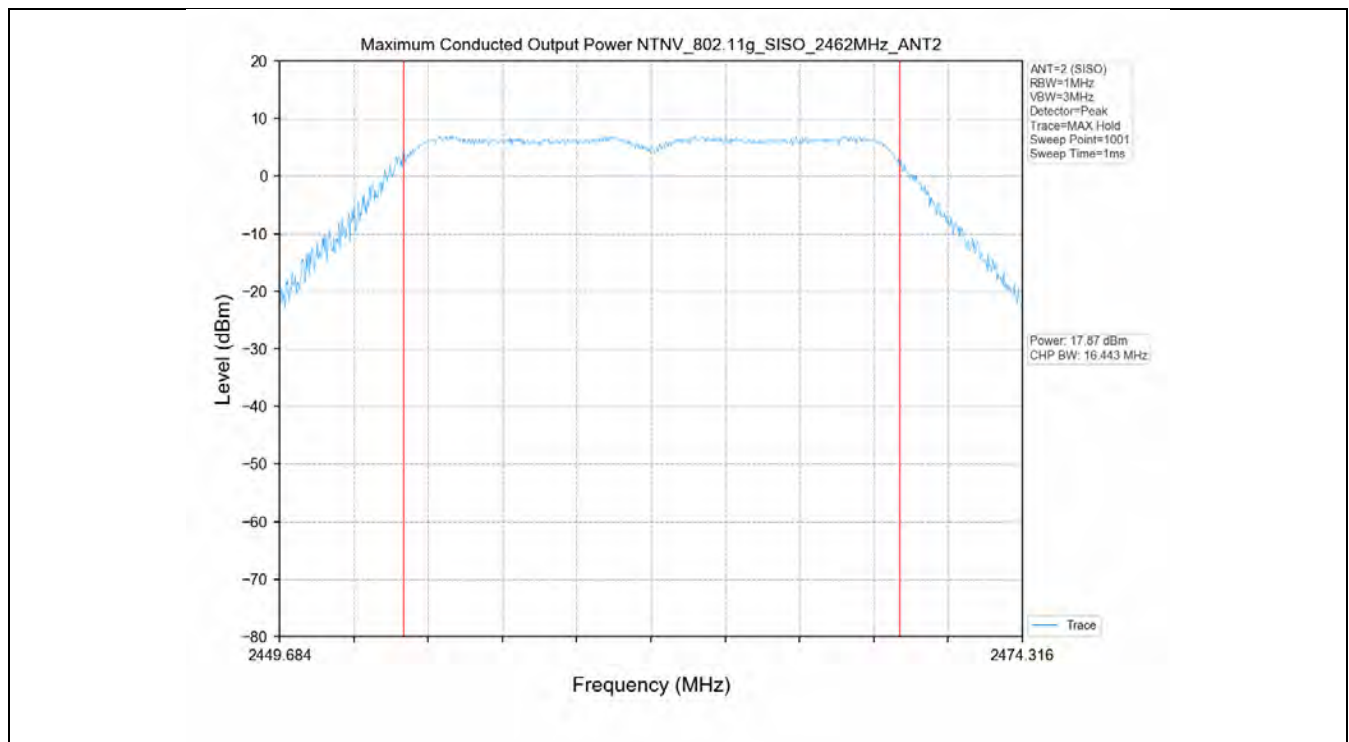


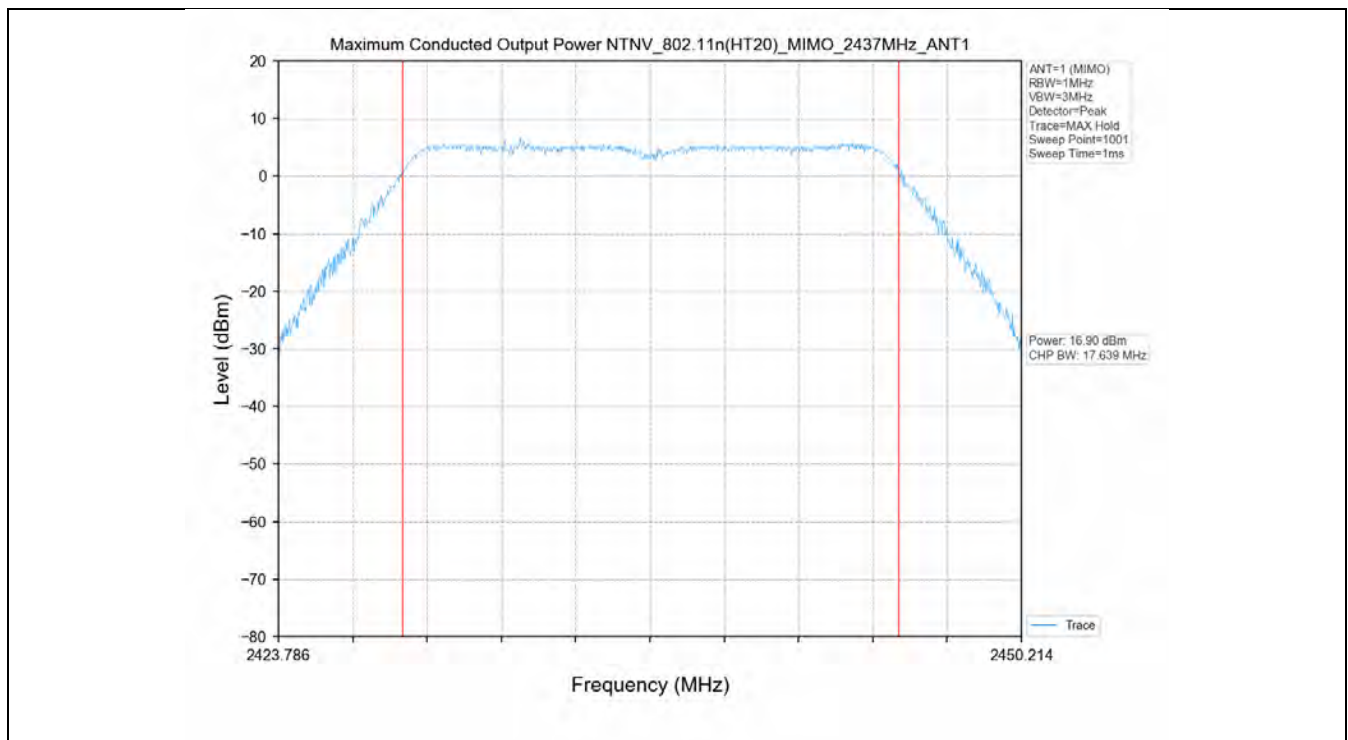
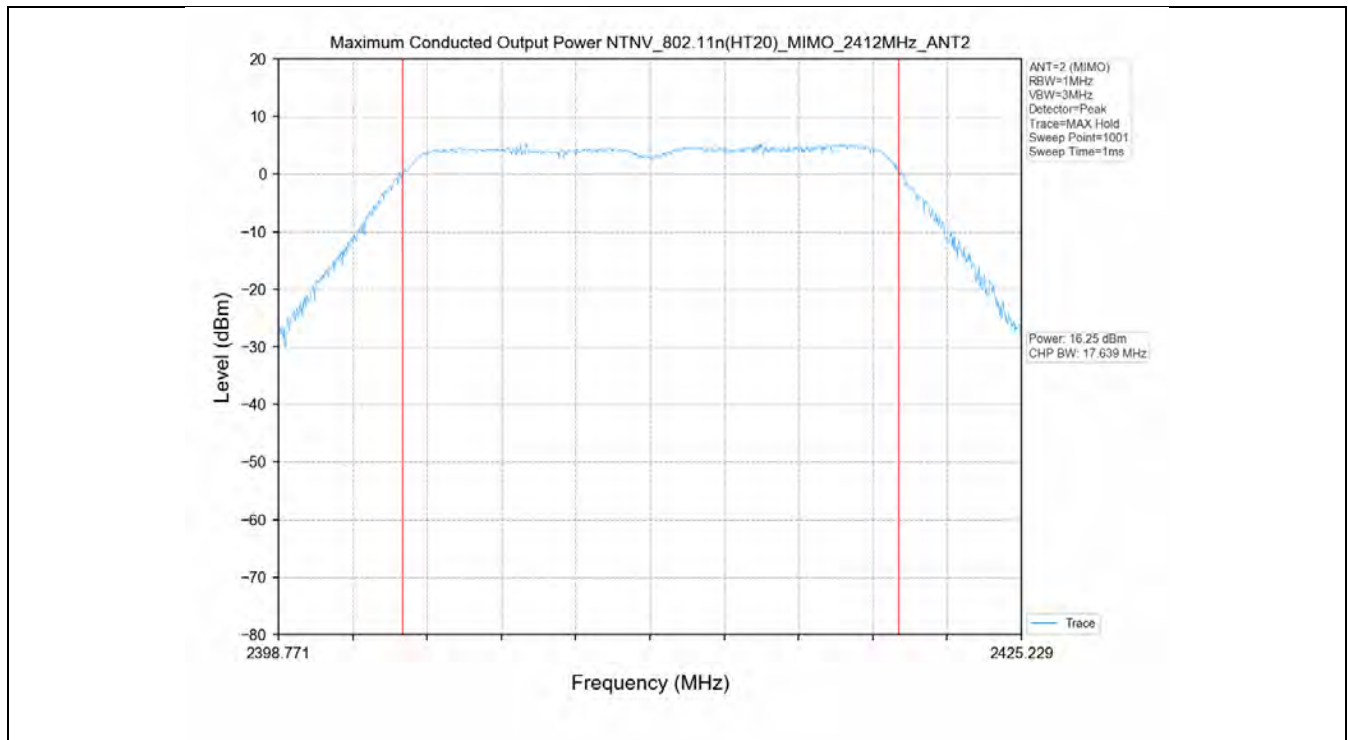


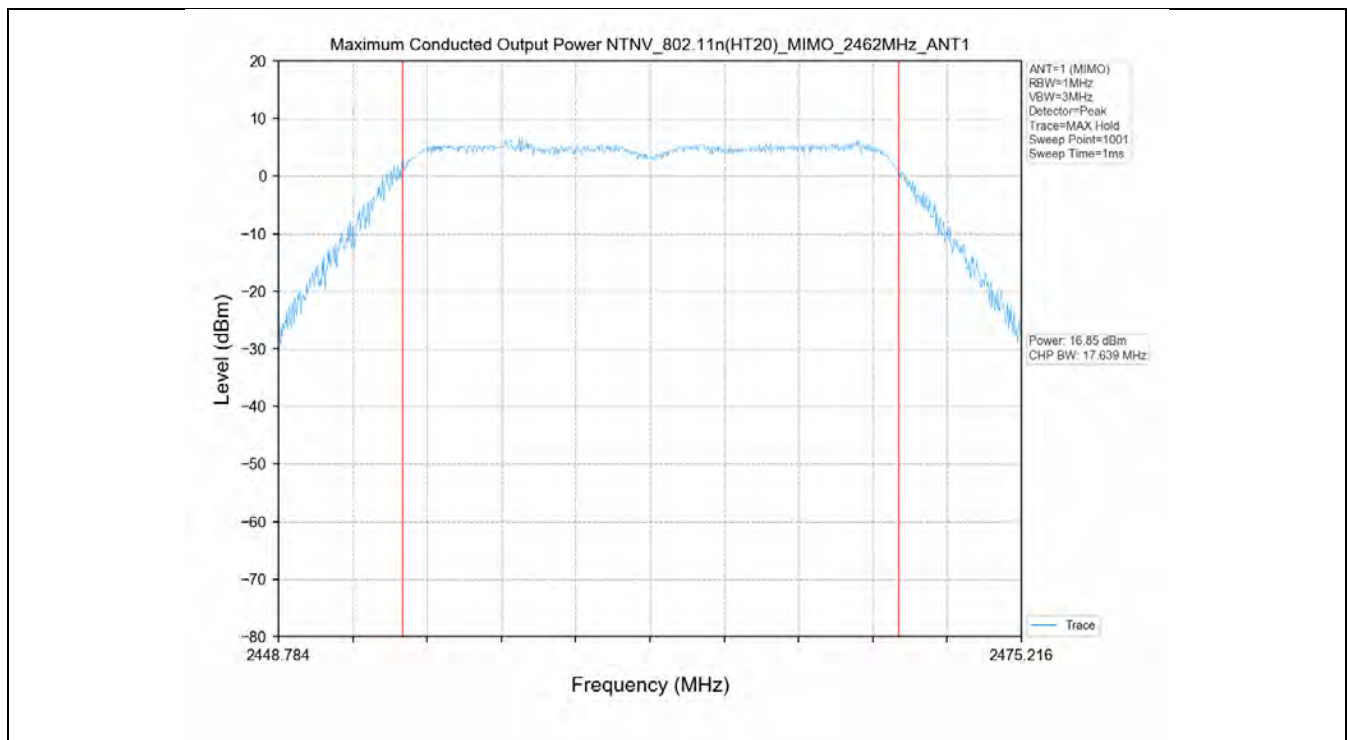
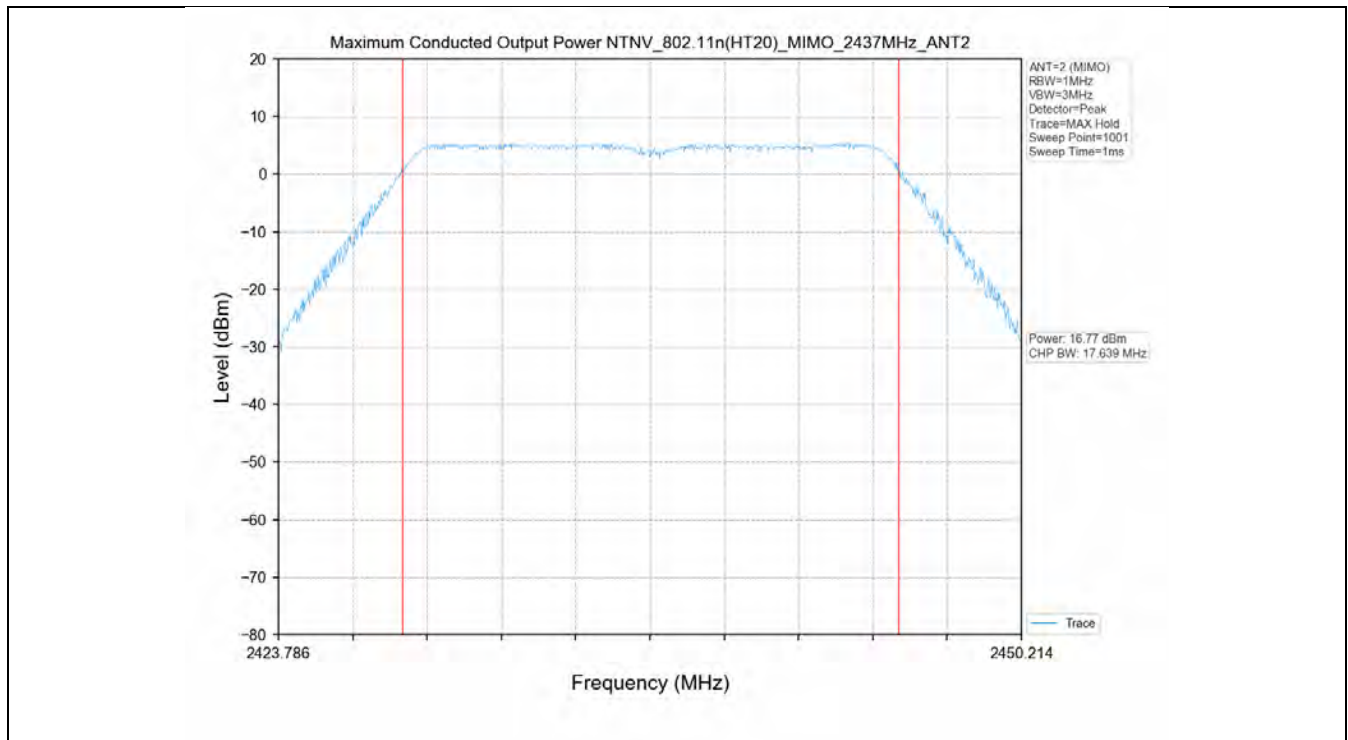


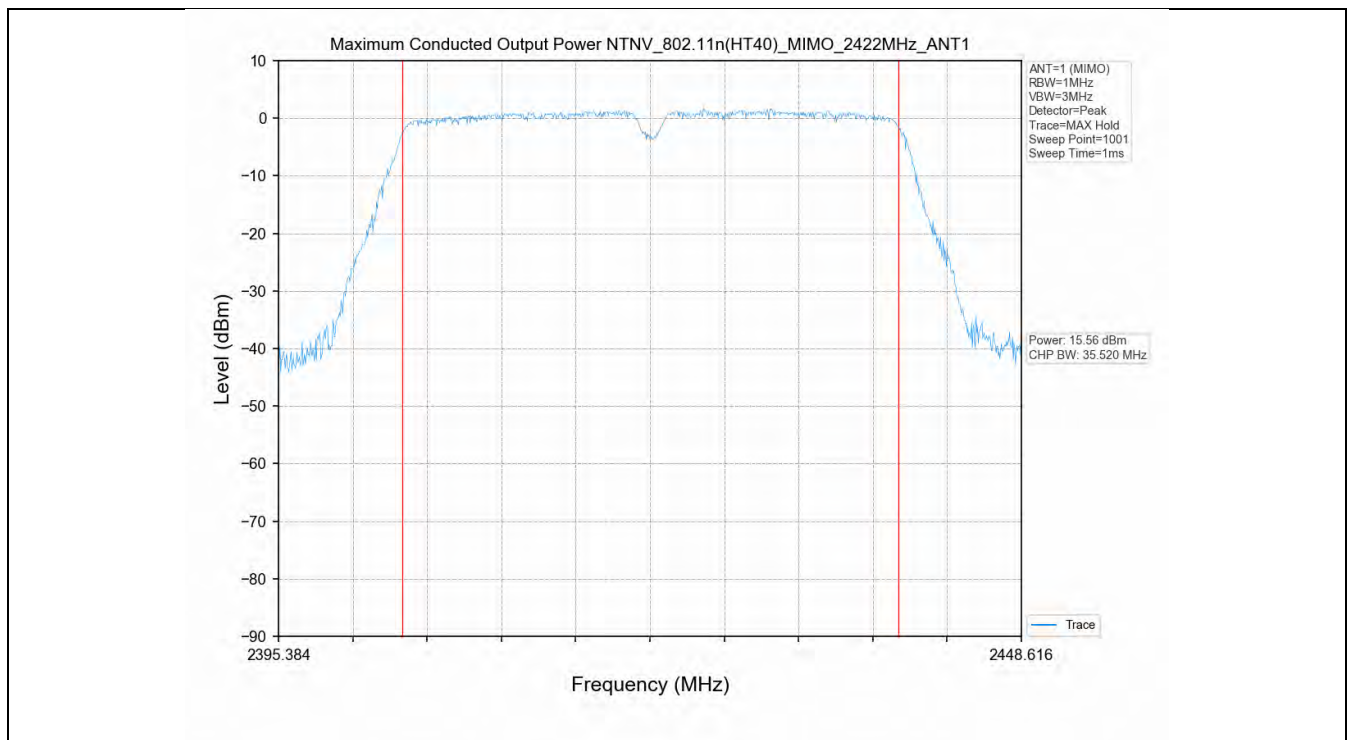
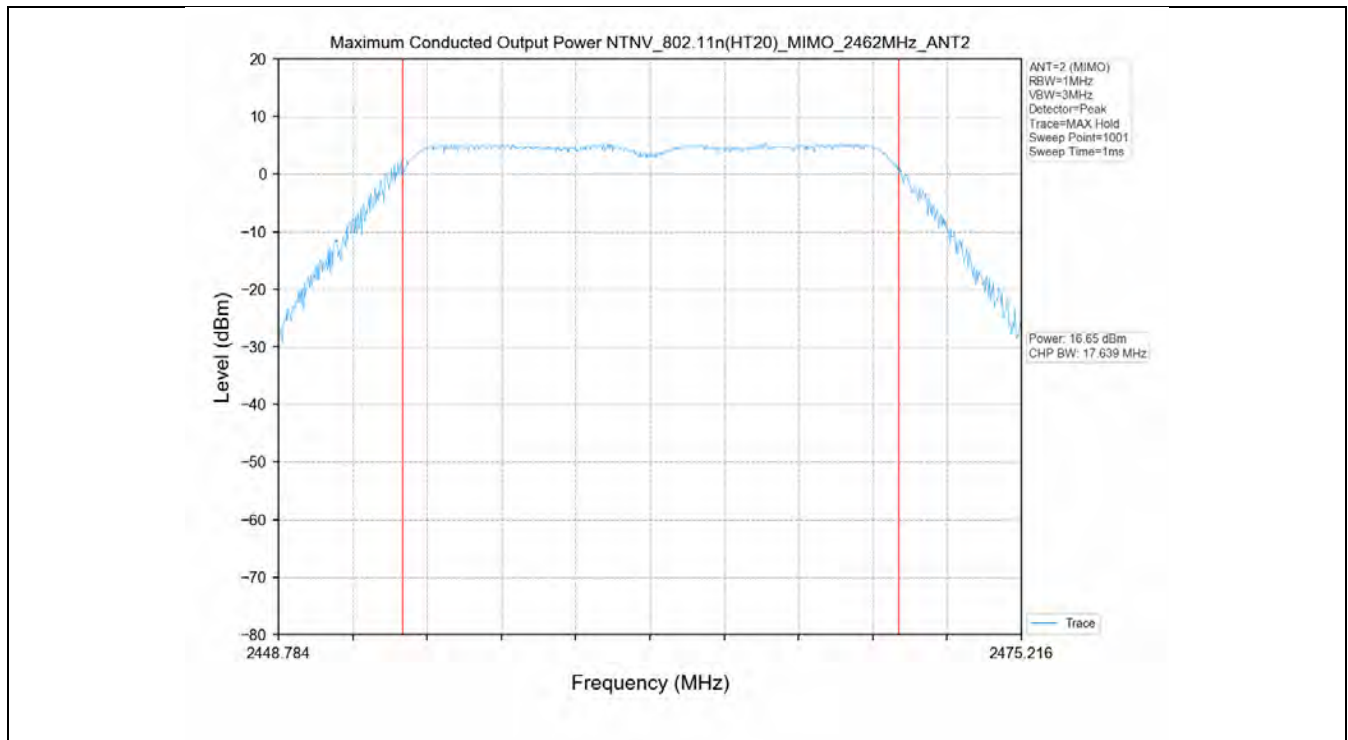


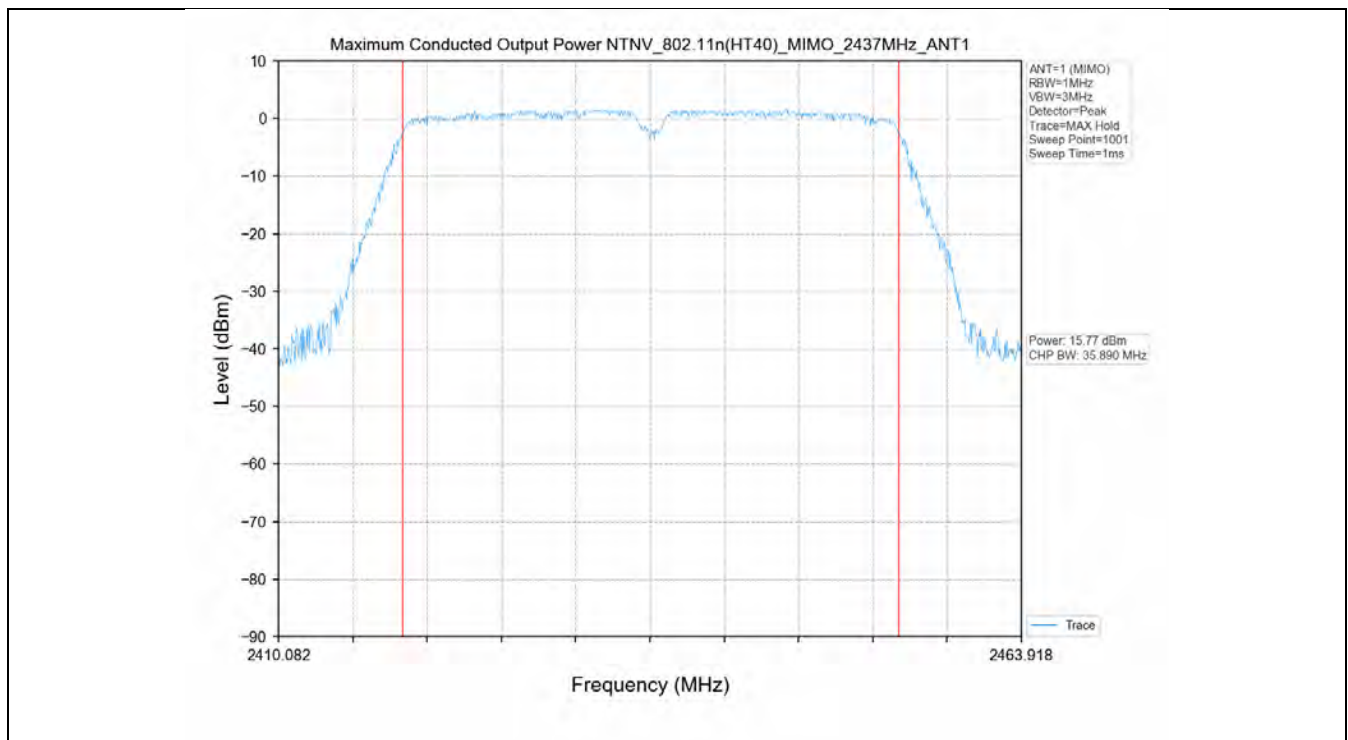
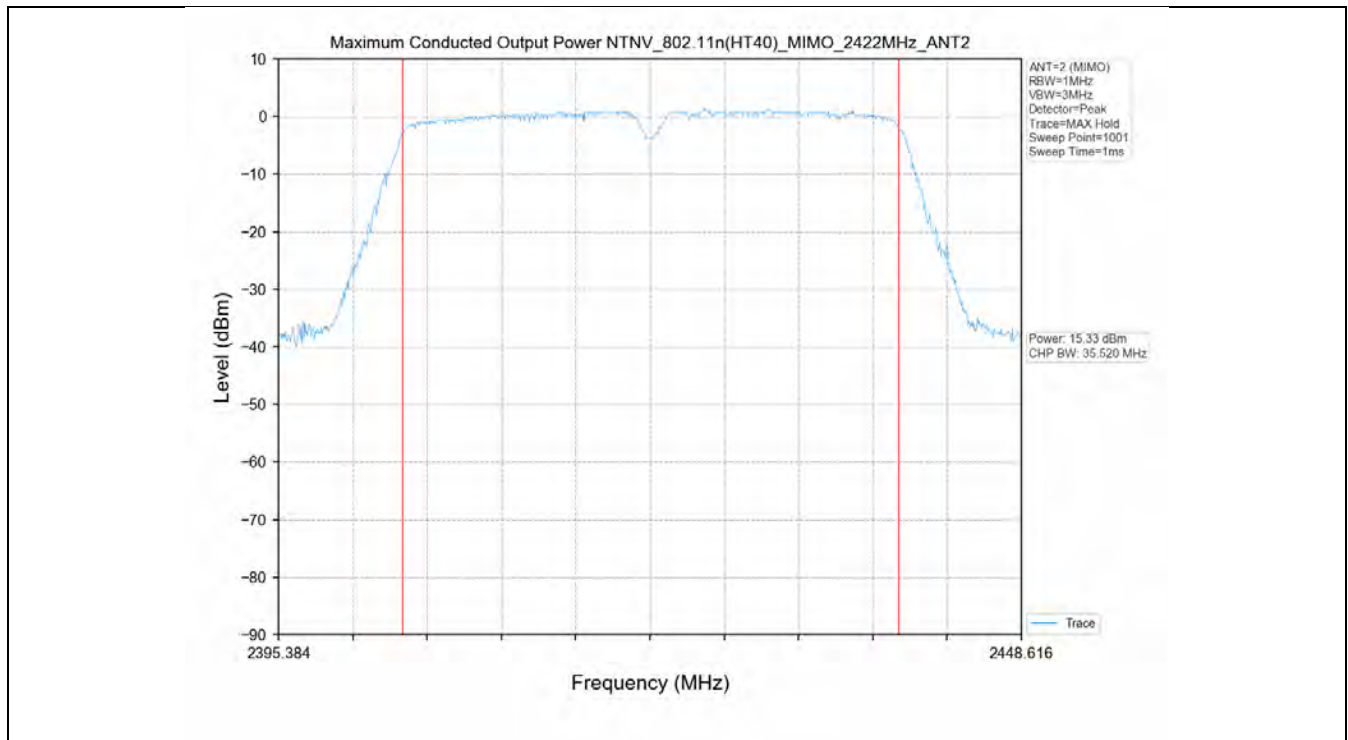


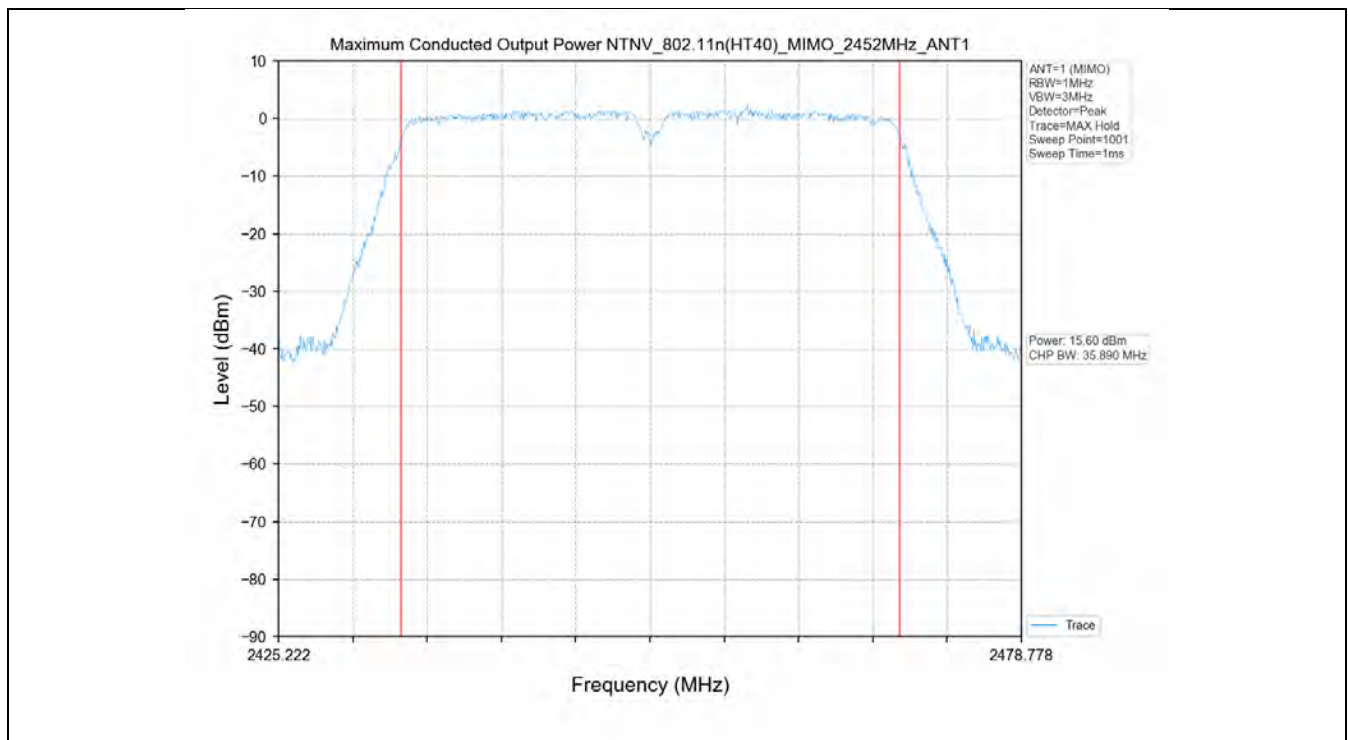
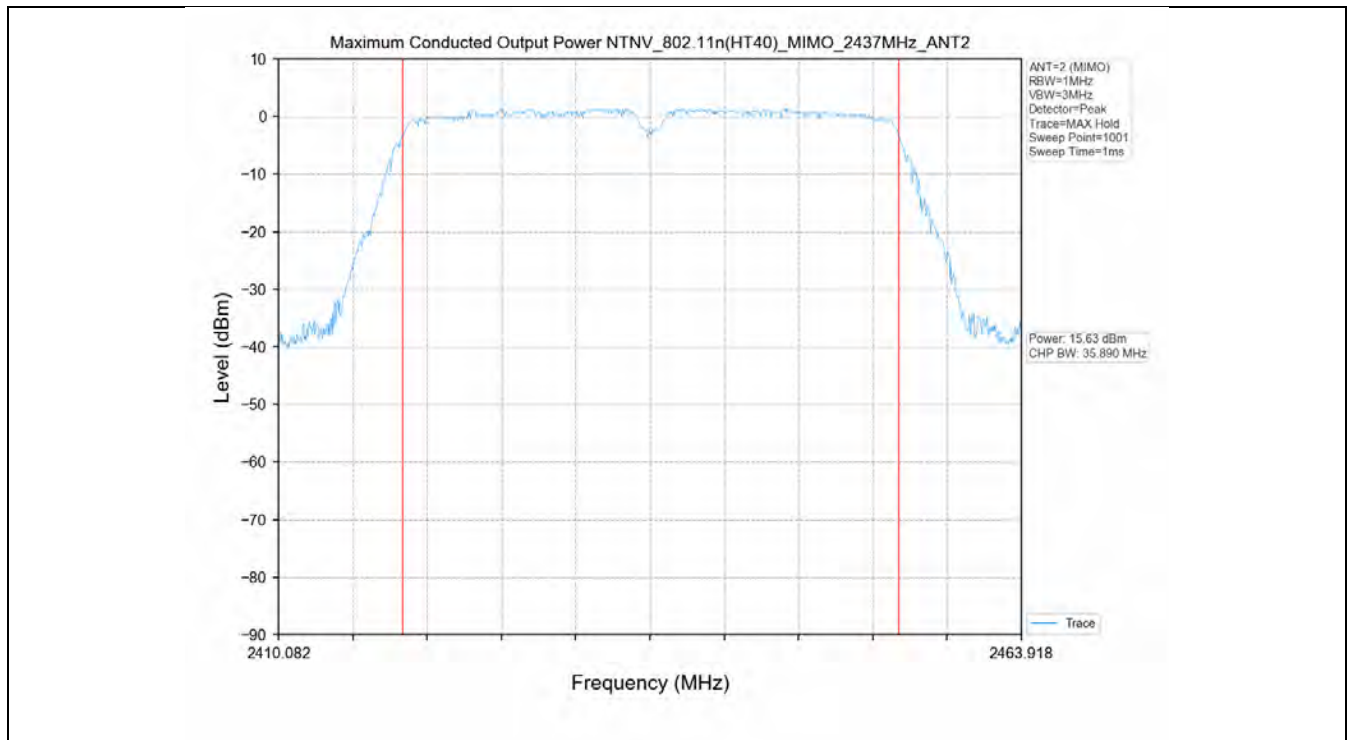


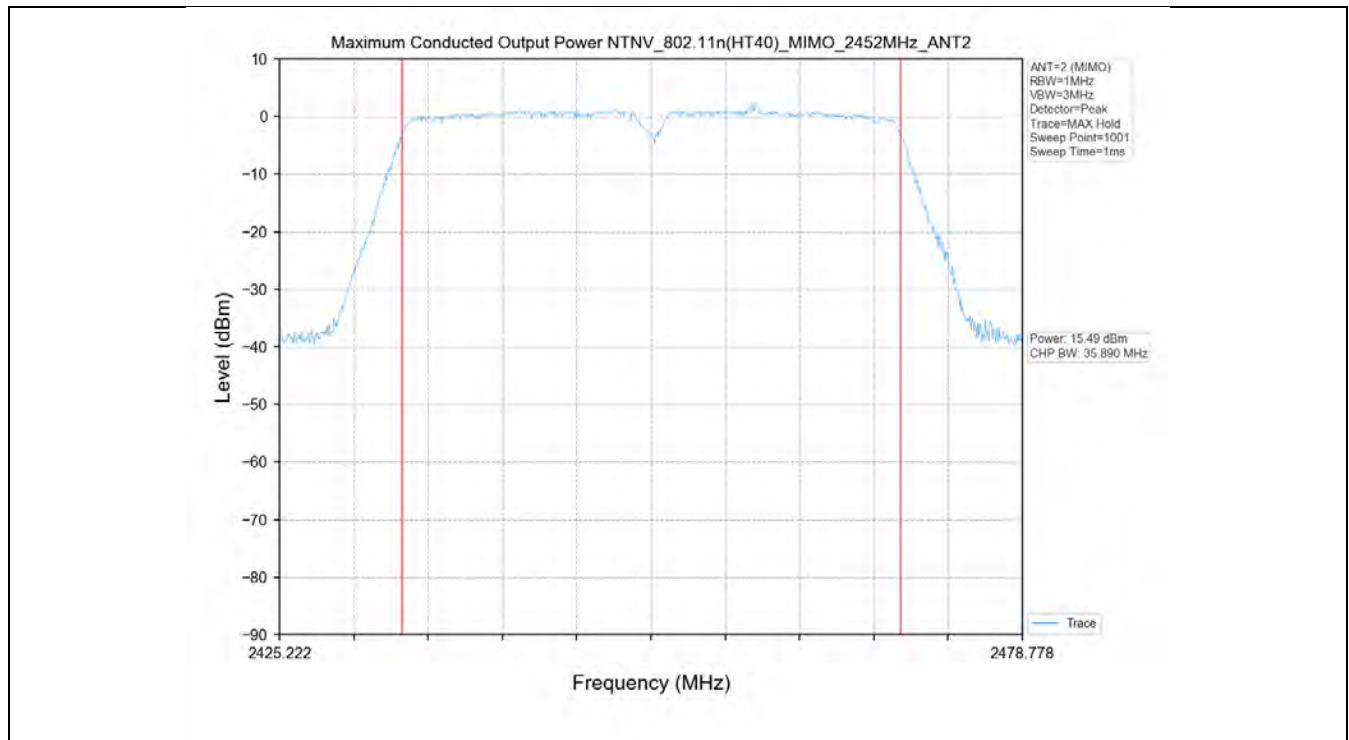










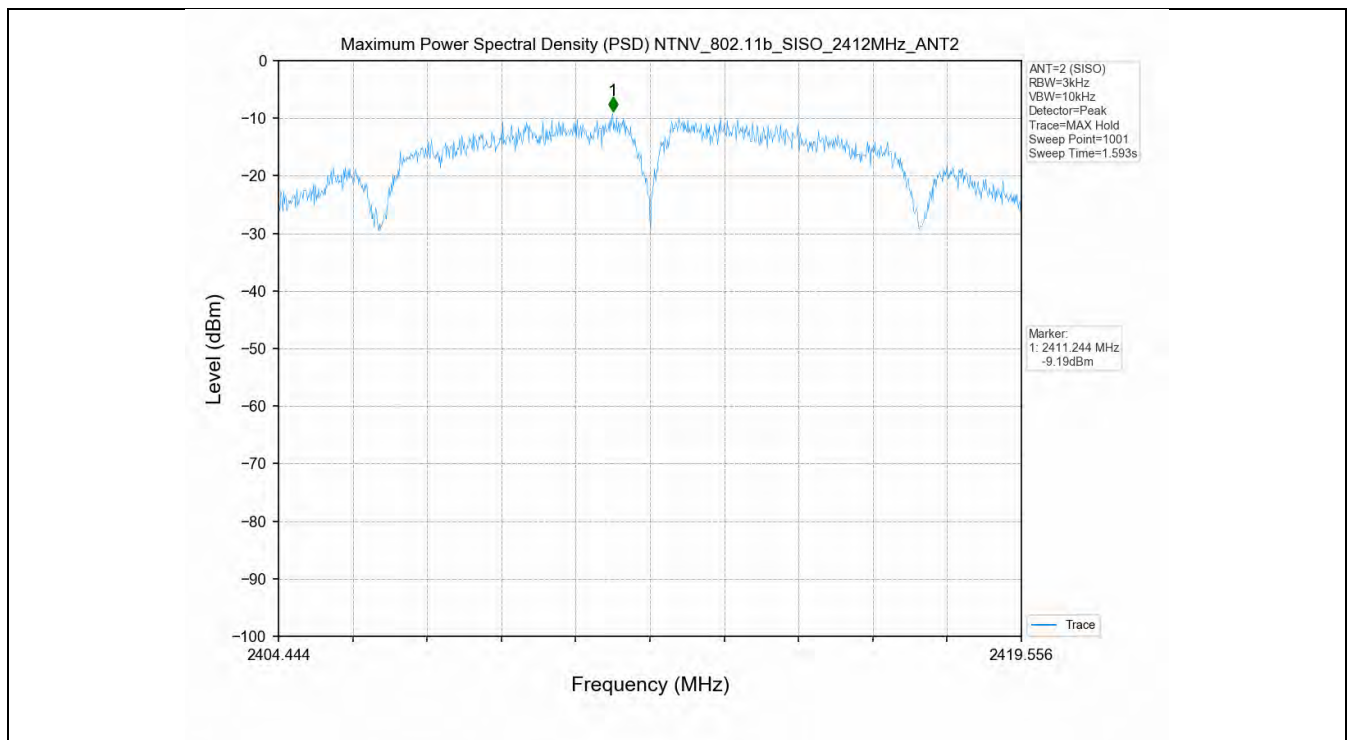
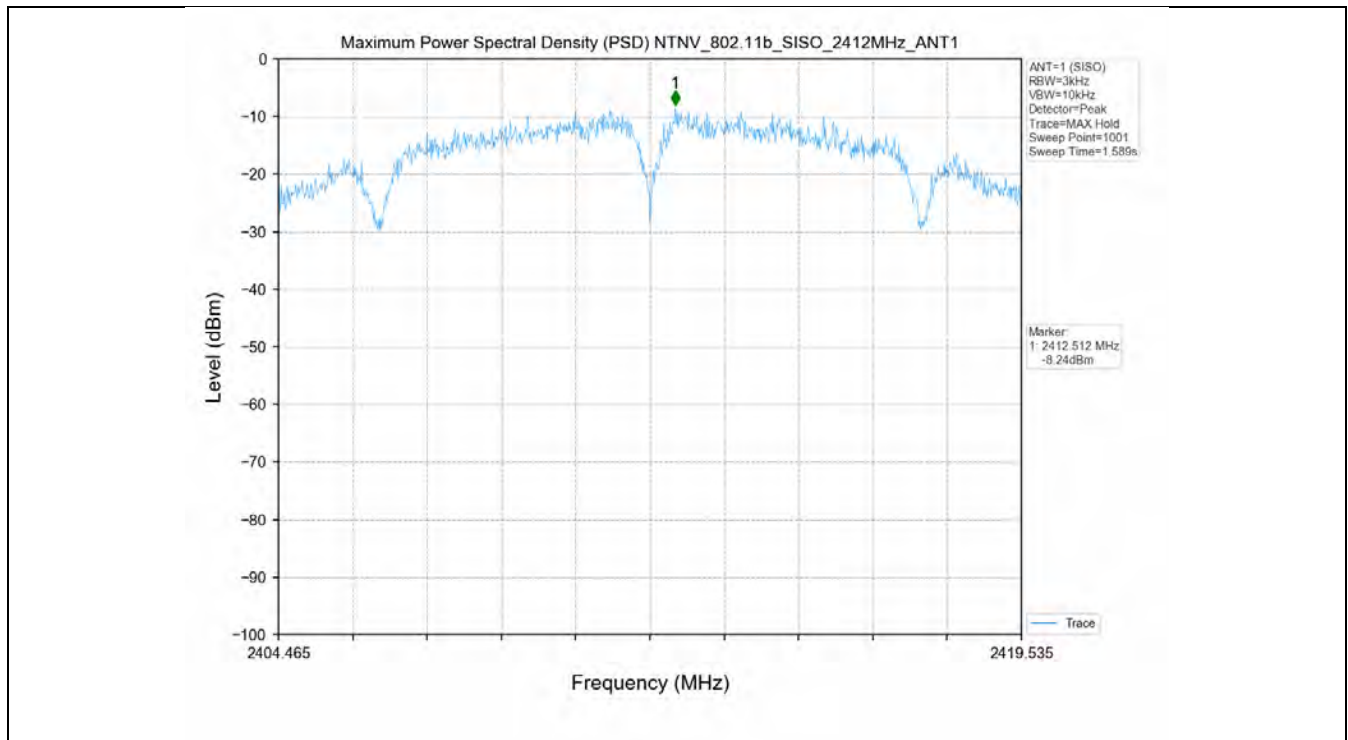


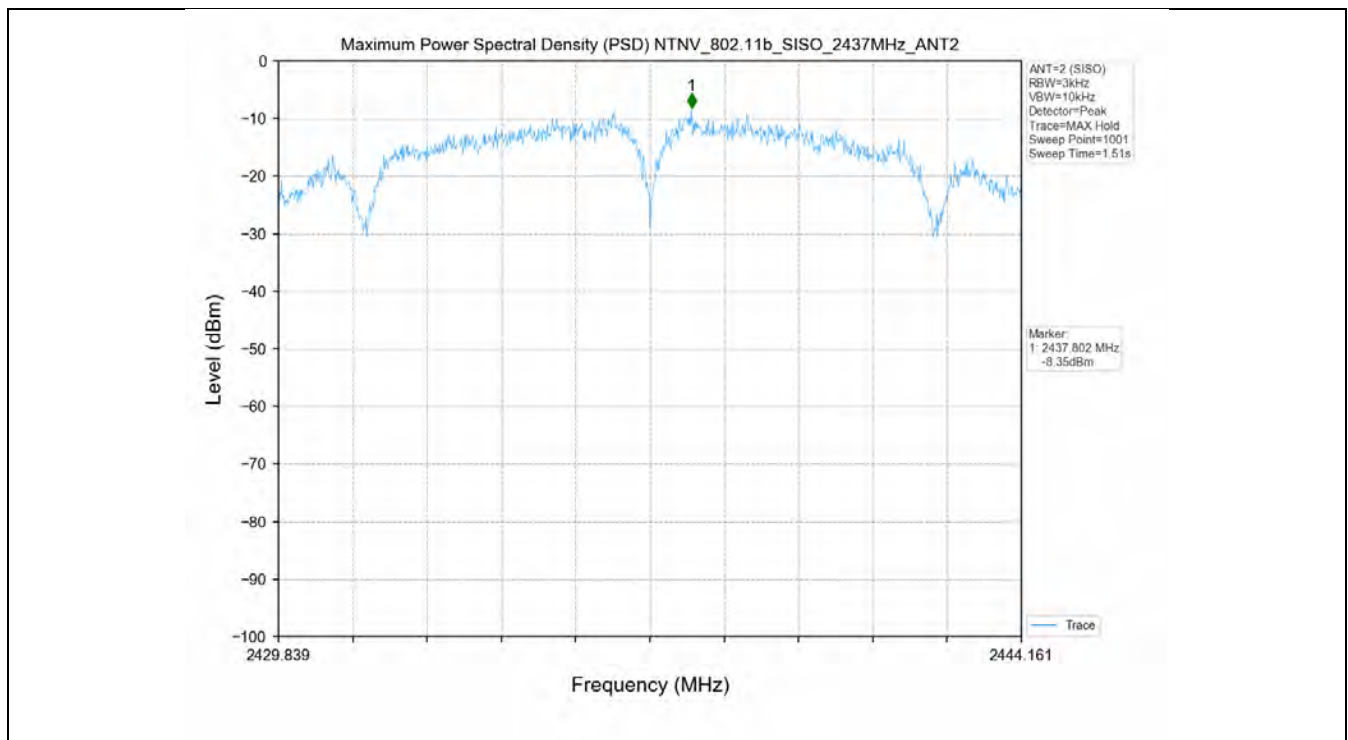
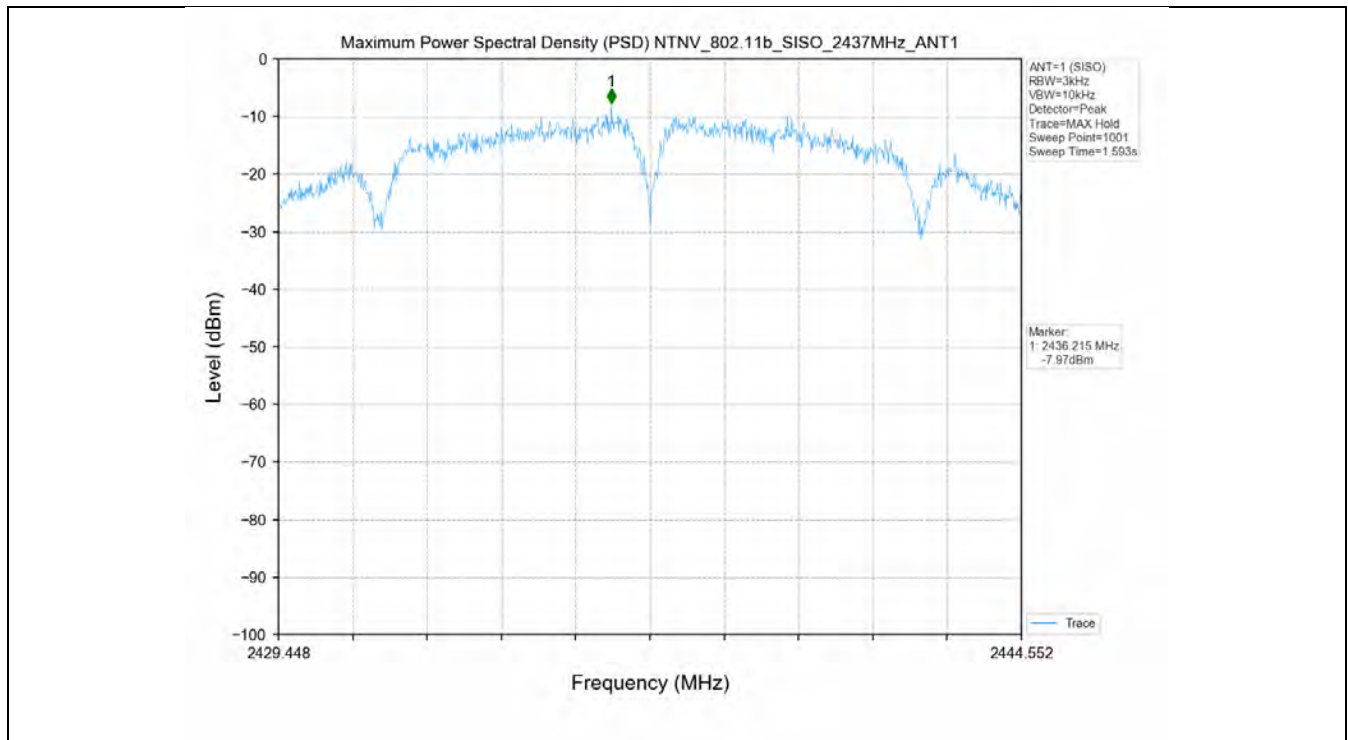
4. Maximum Power Spectral Density (PSD)

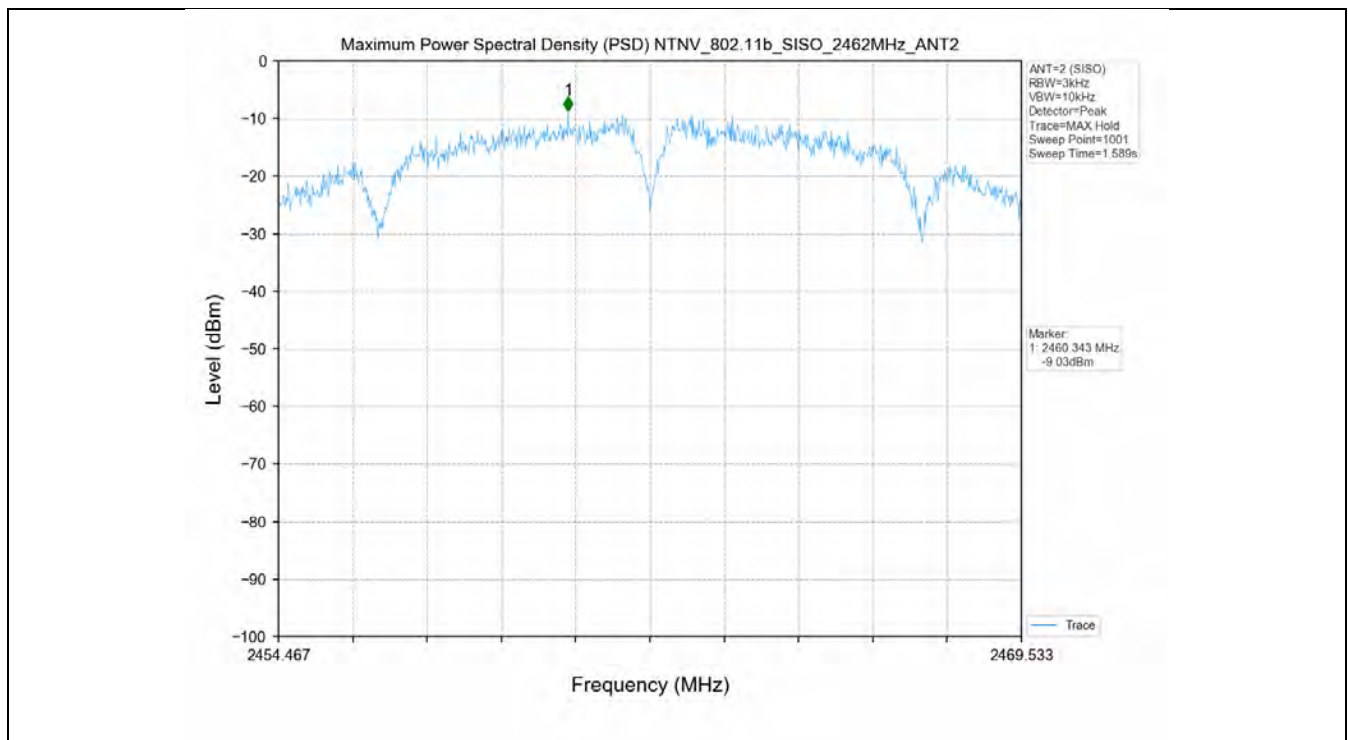
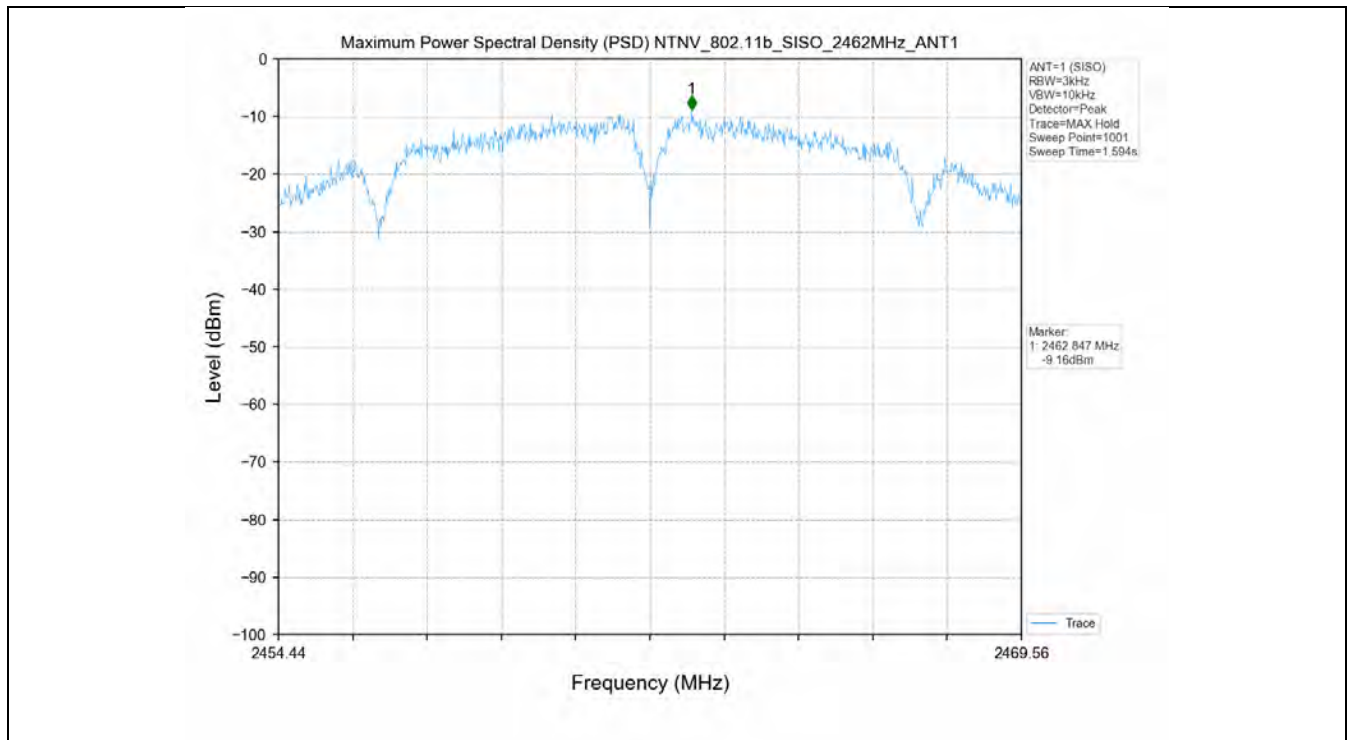
4.1 Test Result

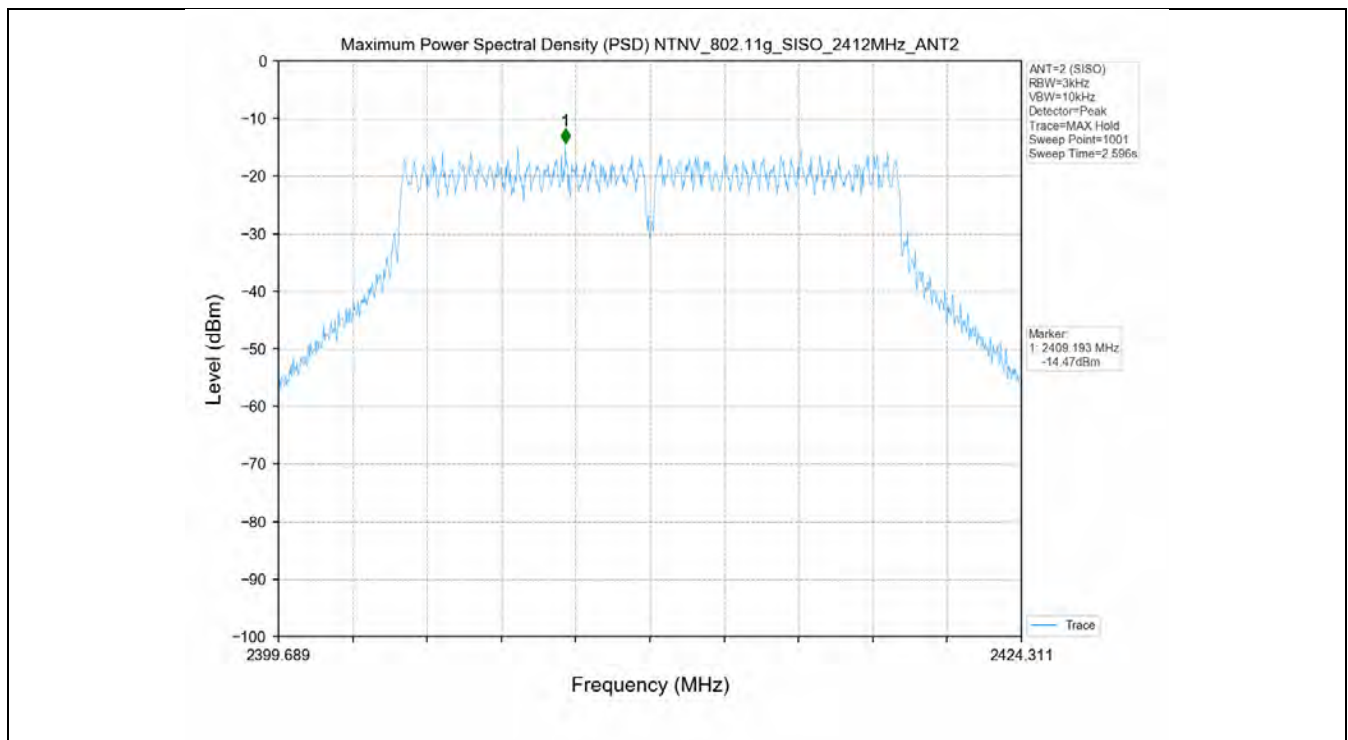
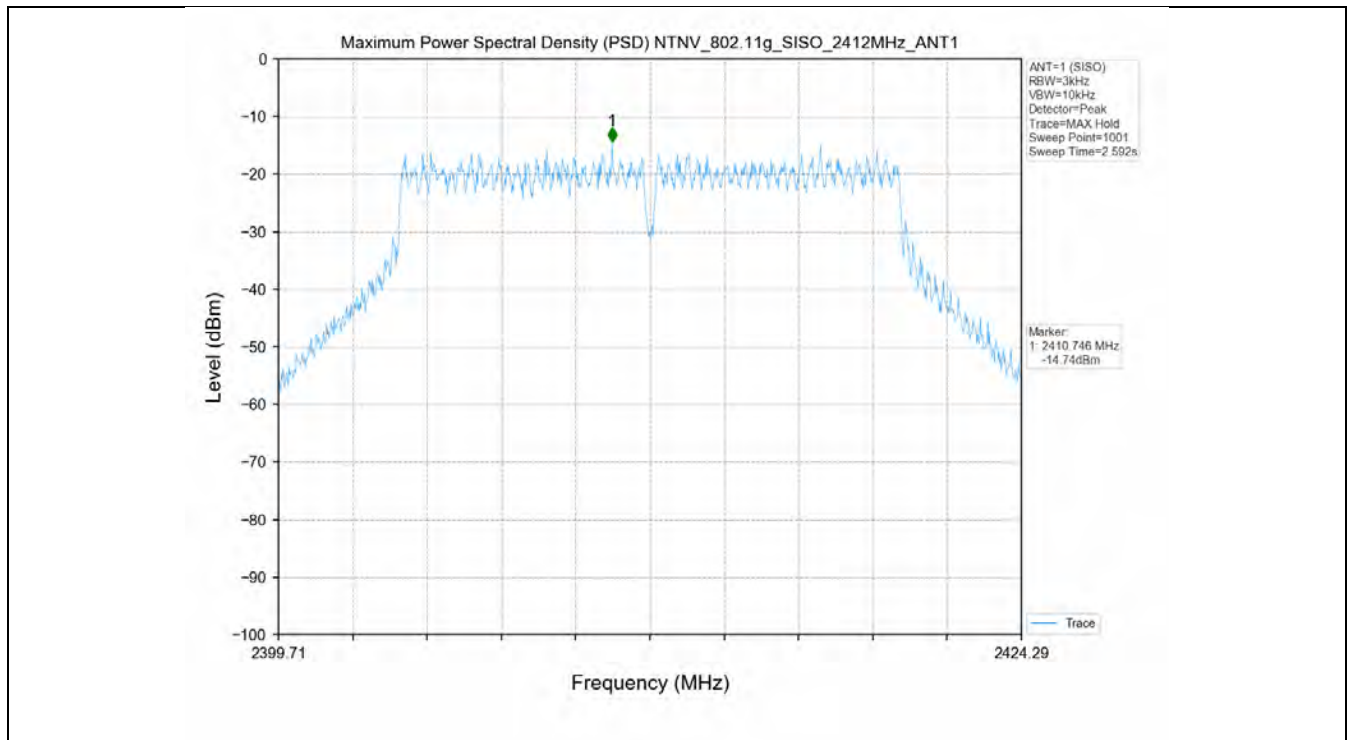
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-8.24	-9.19	/	≤8	PASS
	2437	SISO	-7.97	-8.35	/	≤8	PASS
	2462	SISO	-9.16	-9.03	/	≤8	PASS
802.11g	2412	SISO	-14.74	-14.47	/	≤8	PASS
	2437	SISO	-14.20	-15.24	/	≤8	PASS
	2462	SISO	-15.10	-15.27	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-16.69	-17.40	-14.02	≤8	PASS
	2437	MIMO	-16.39	-16.97	-13.79	≤8	PASS
	2462	MIMO	-16.43	-16.72	-13.56	≤8	PASS
802.11n(HT40)	2422	MIMO	-20.87	-21.00	-18.39	≤8	PASS
	2437	MIMO	-20.08	-20.13	-17.09	≤8	PASS
	2452	MIMO	-18.39	-18.97	-17.64	≤8	PASS

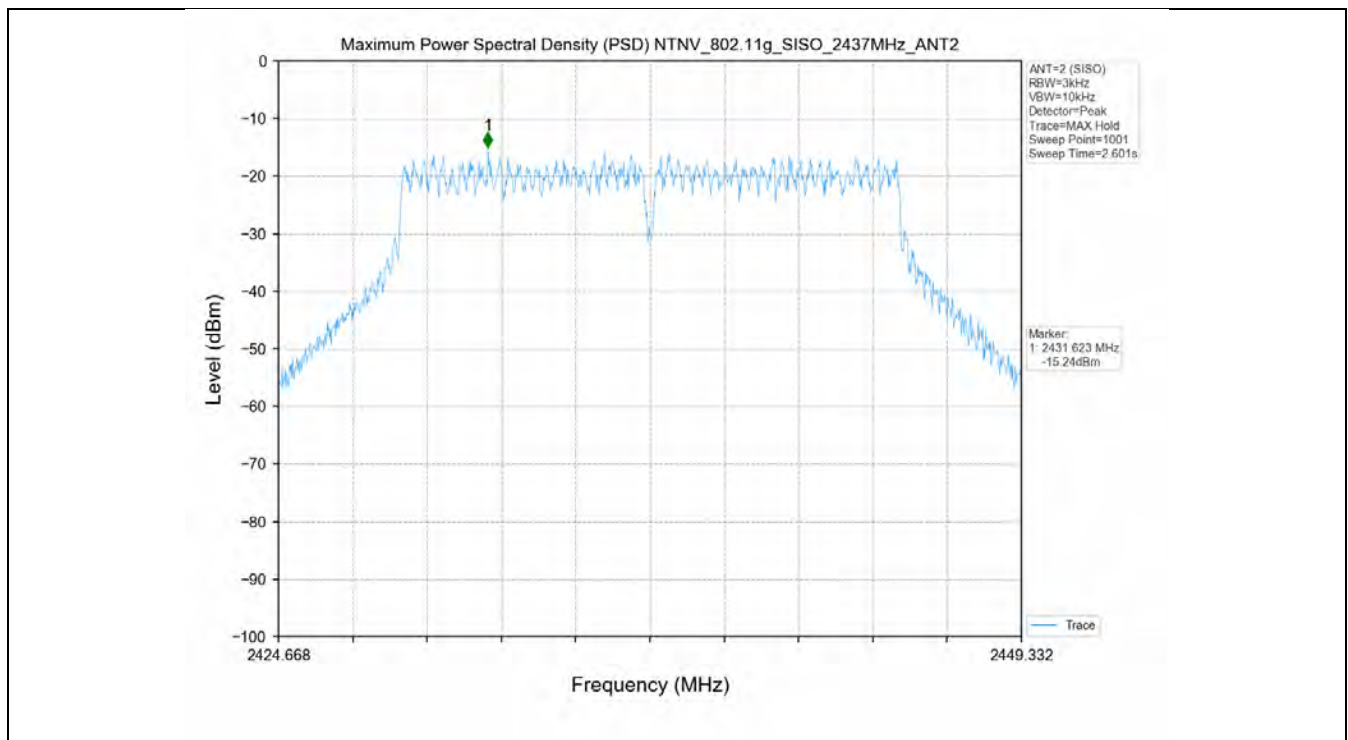
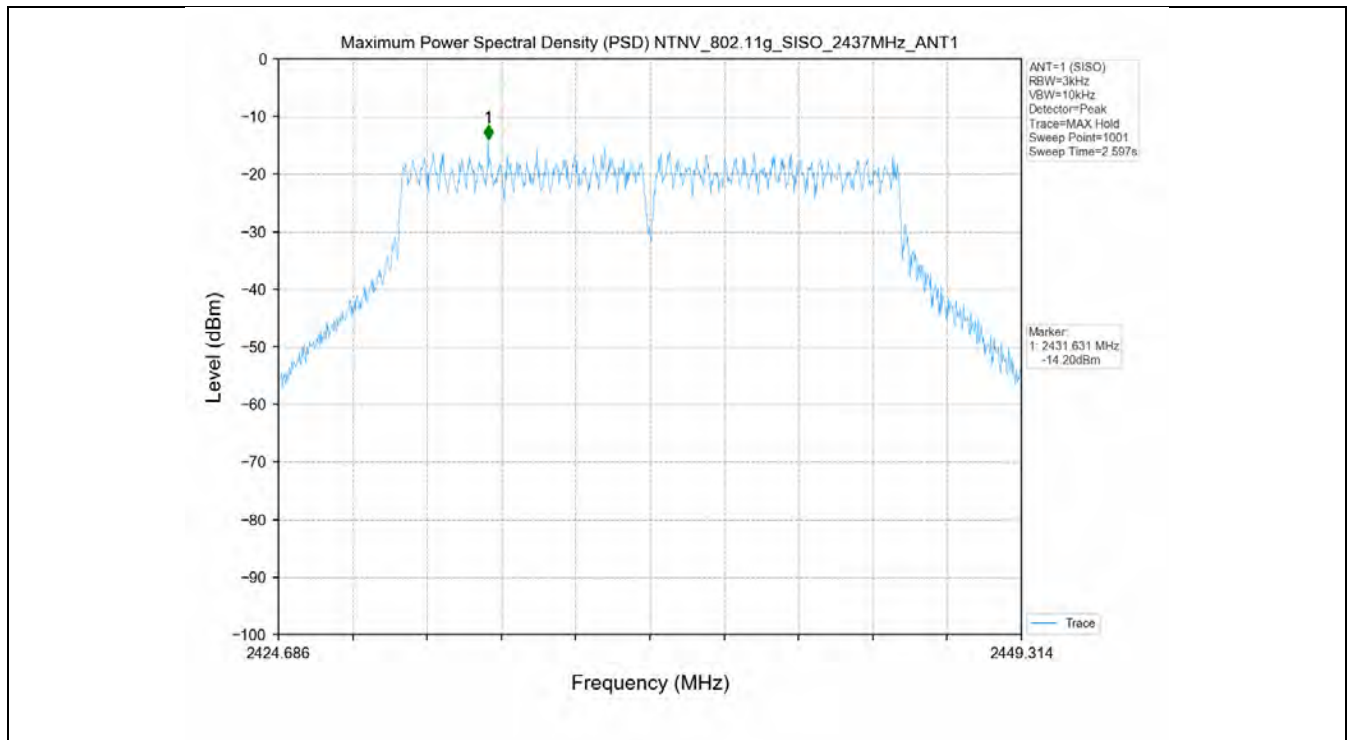
4.2 Test Graph

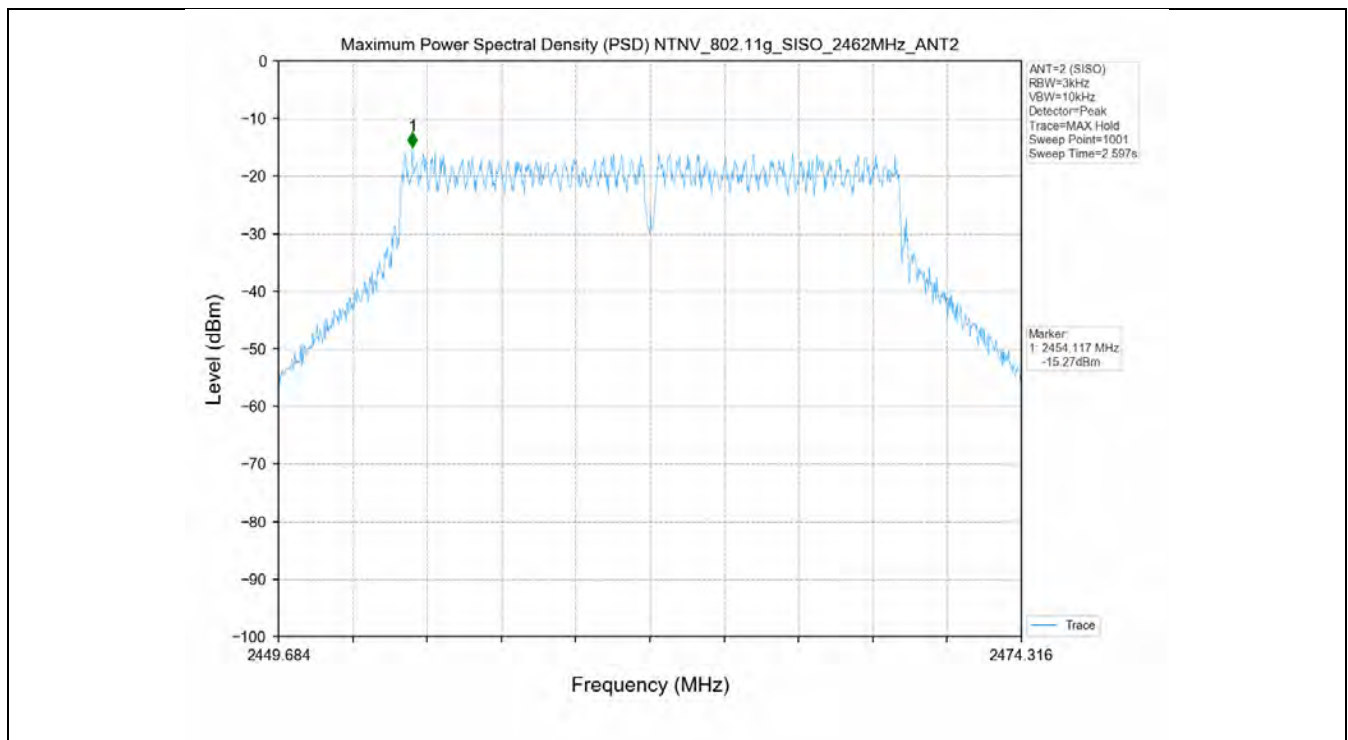
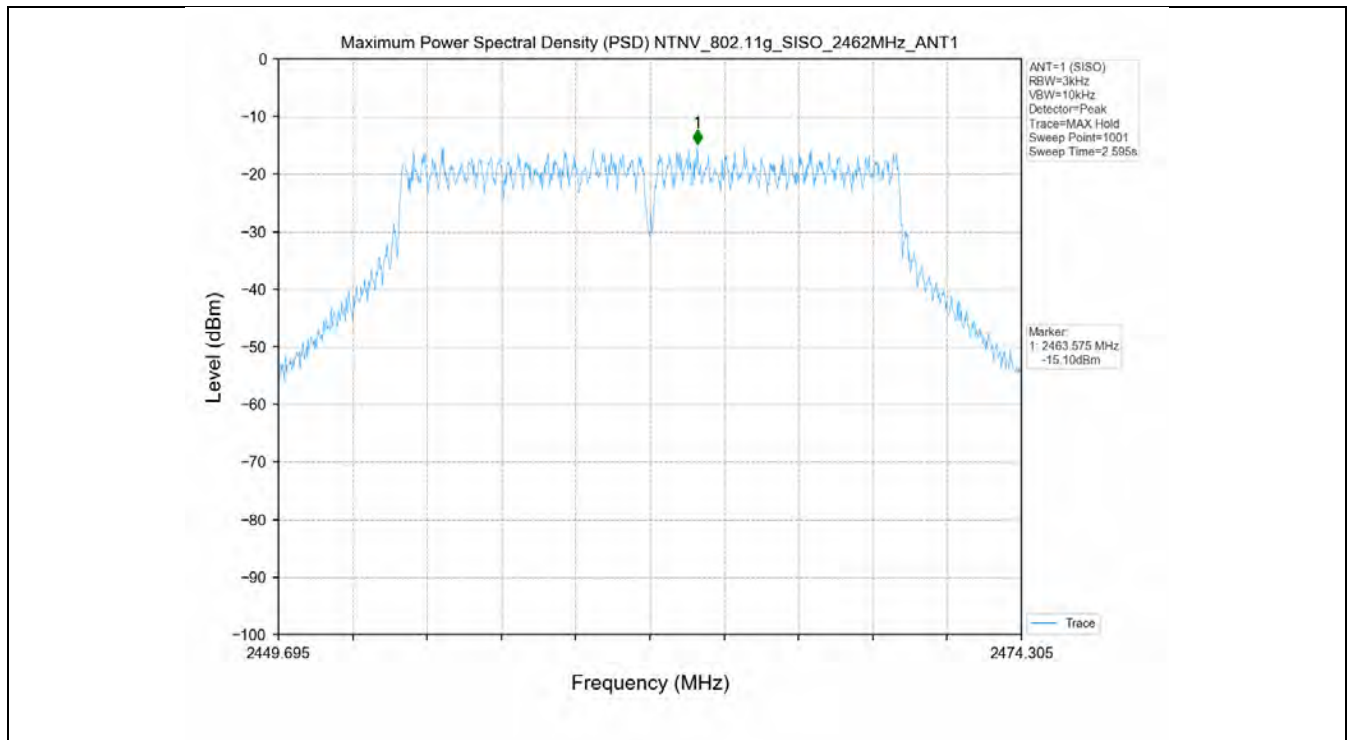


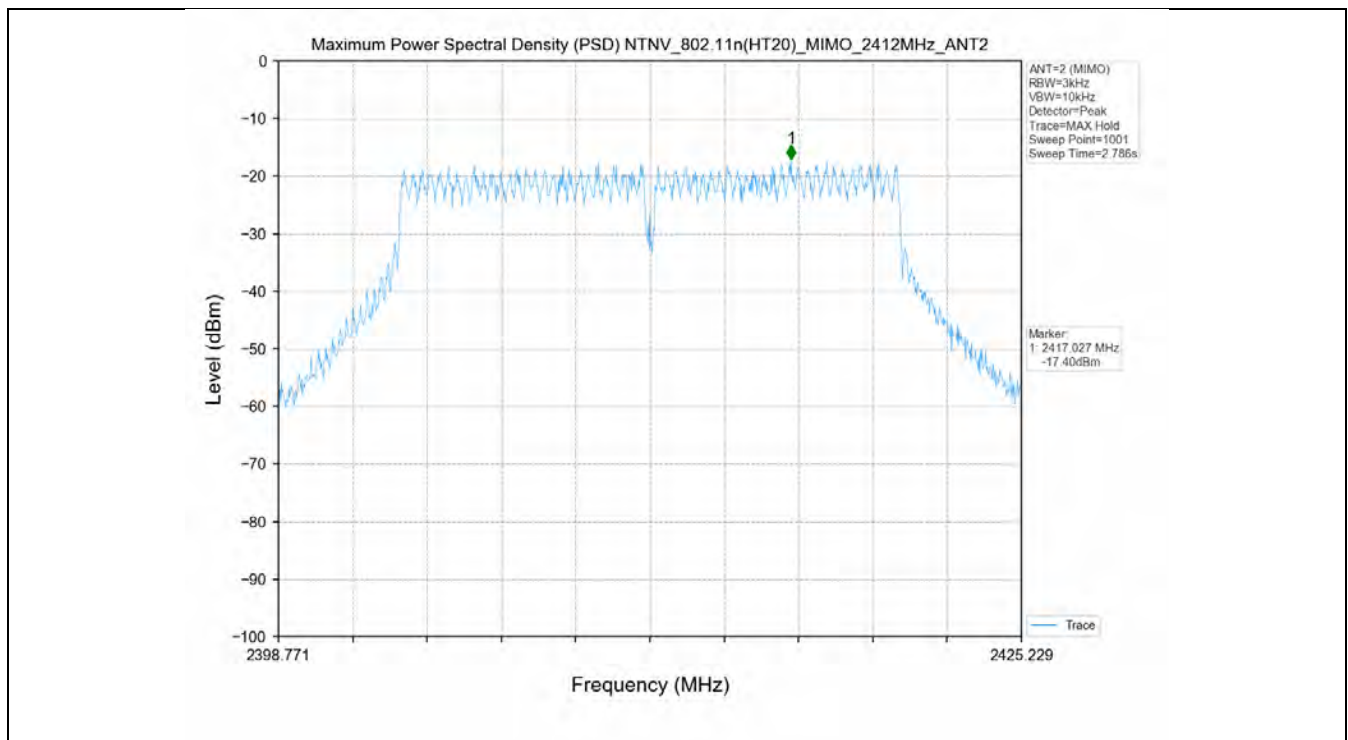
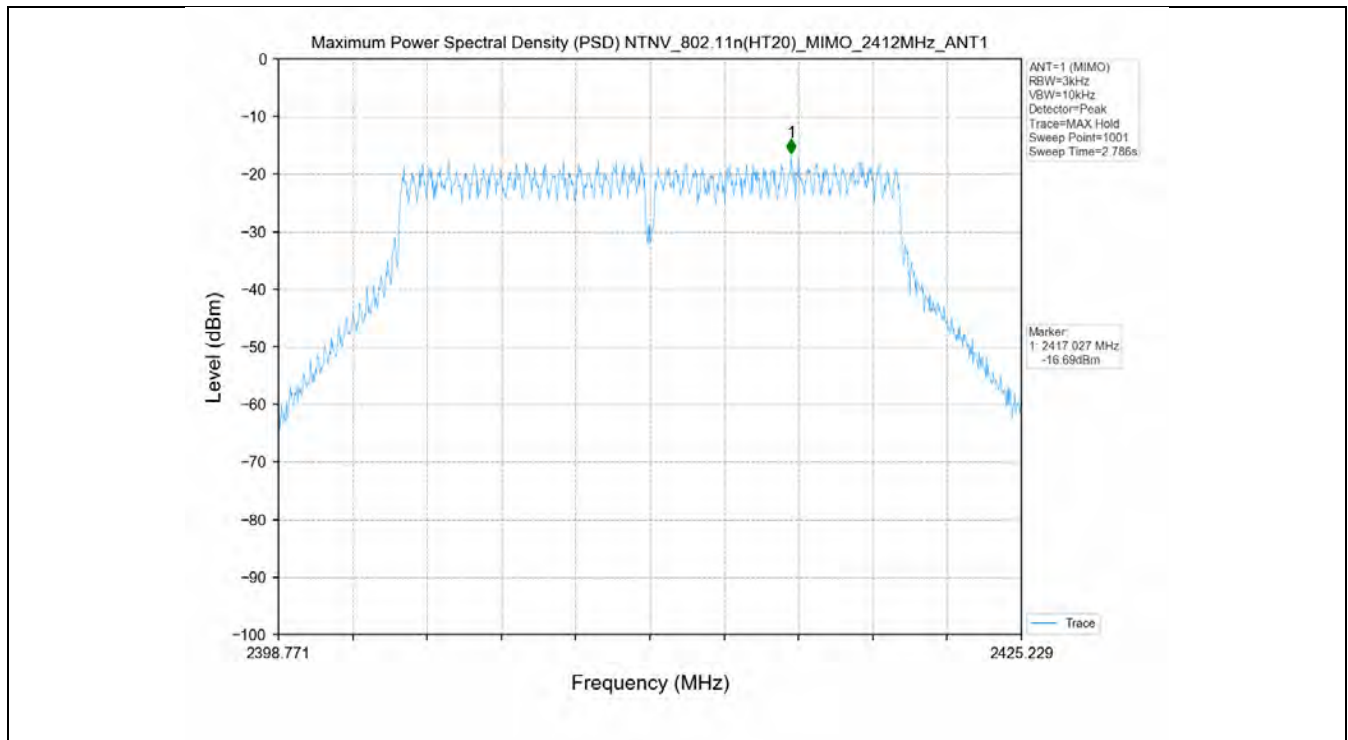


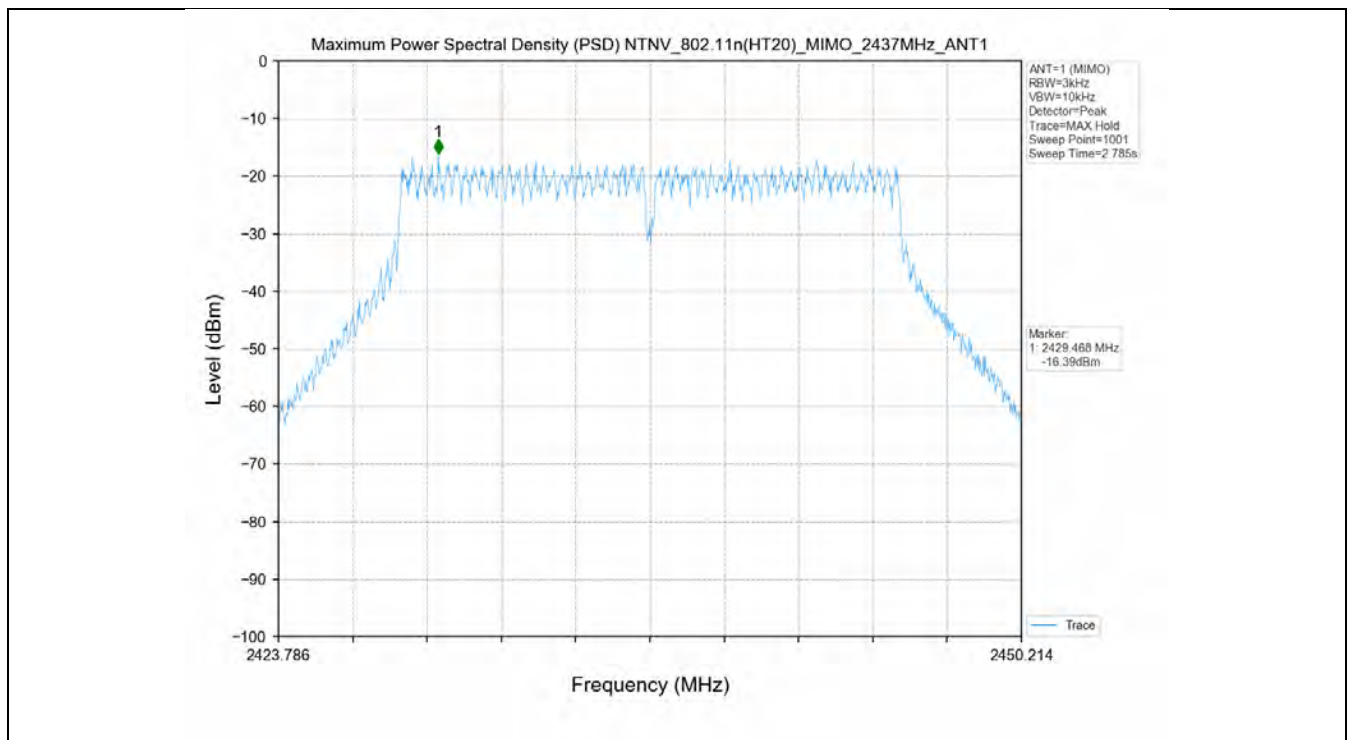
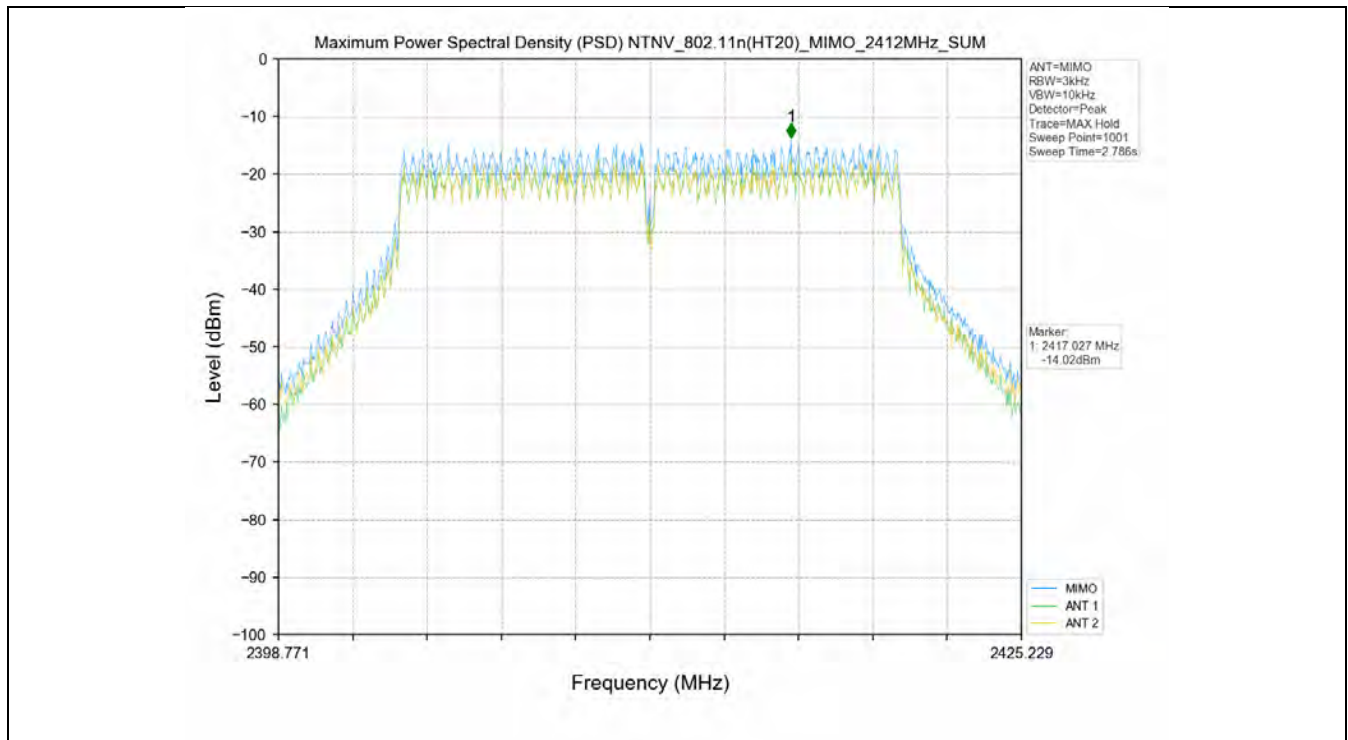


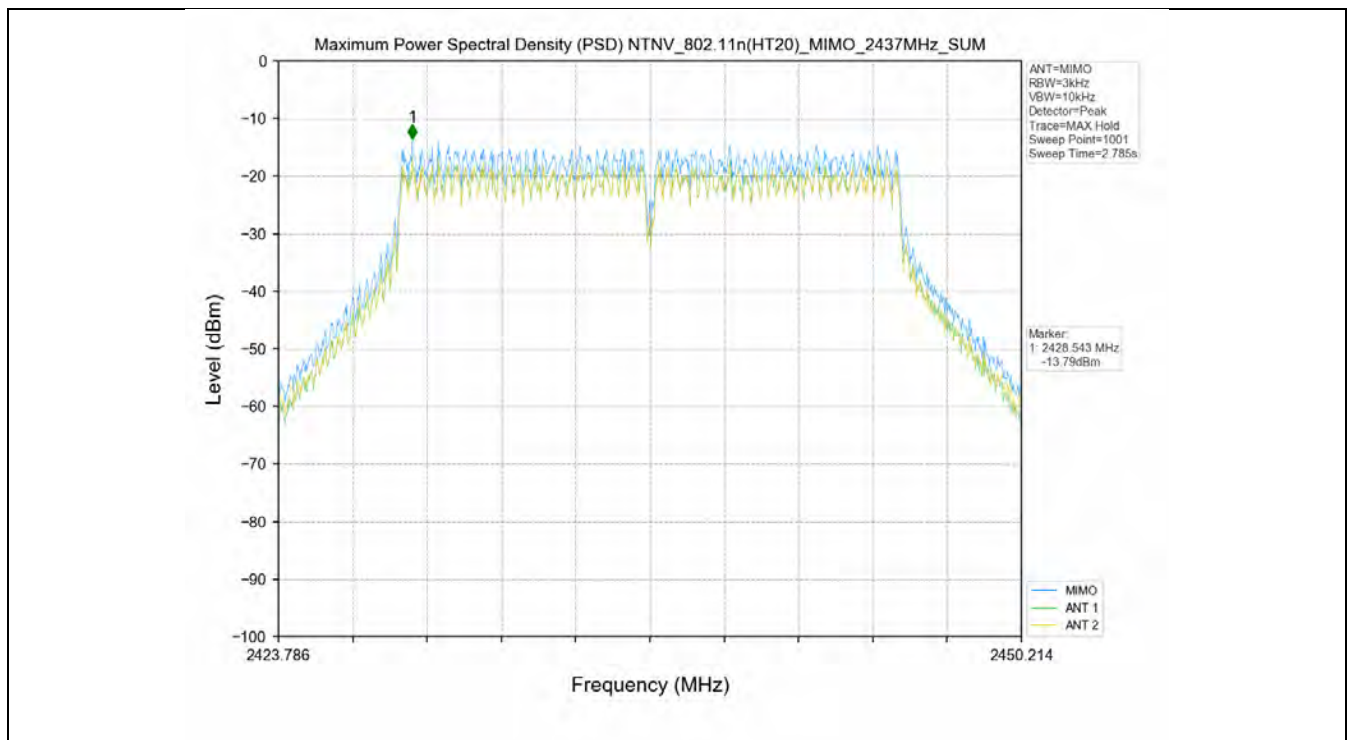
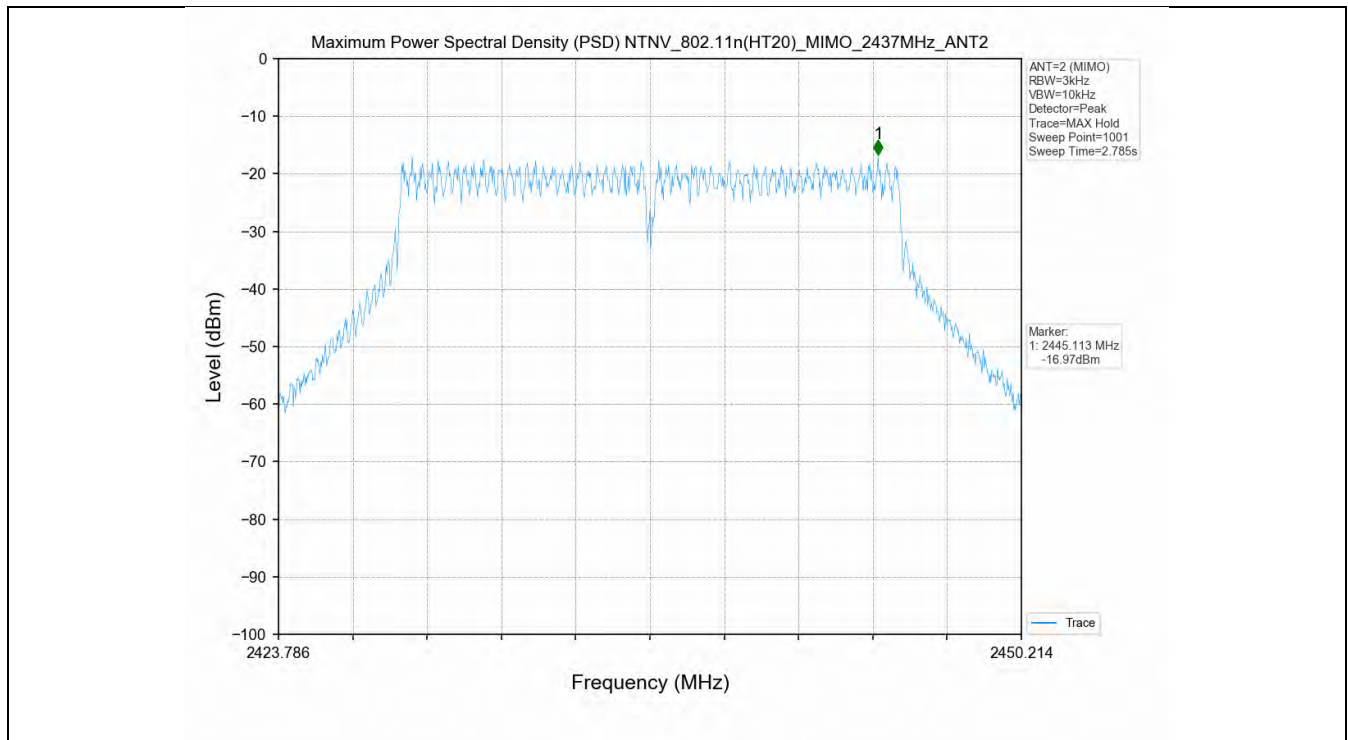


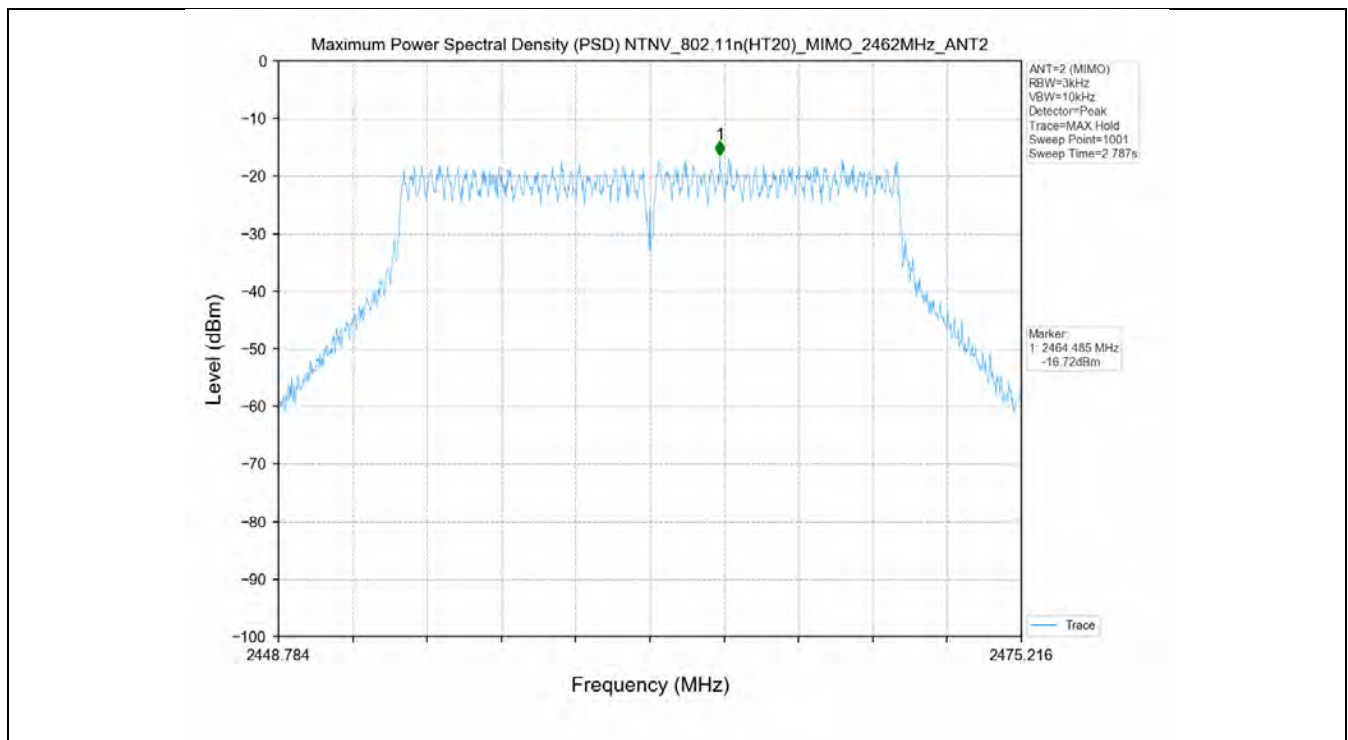
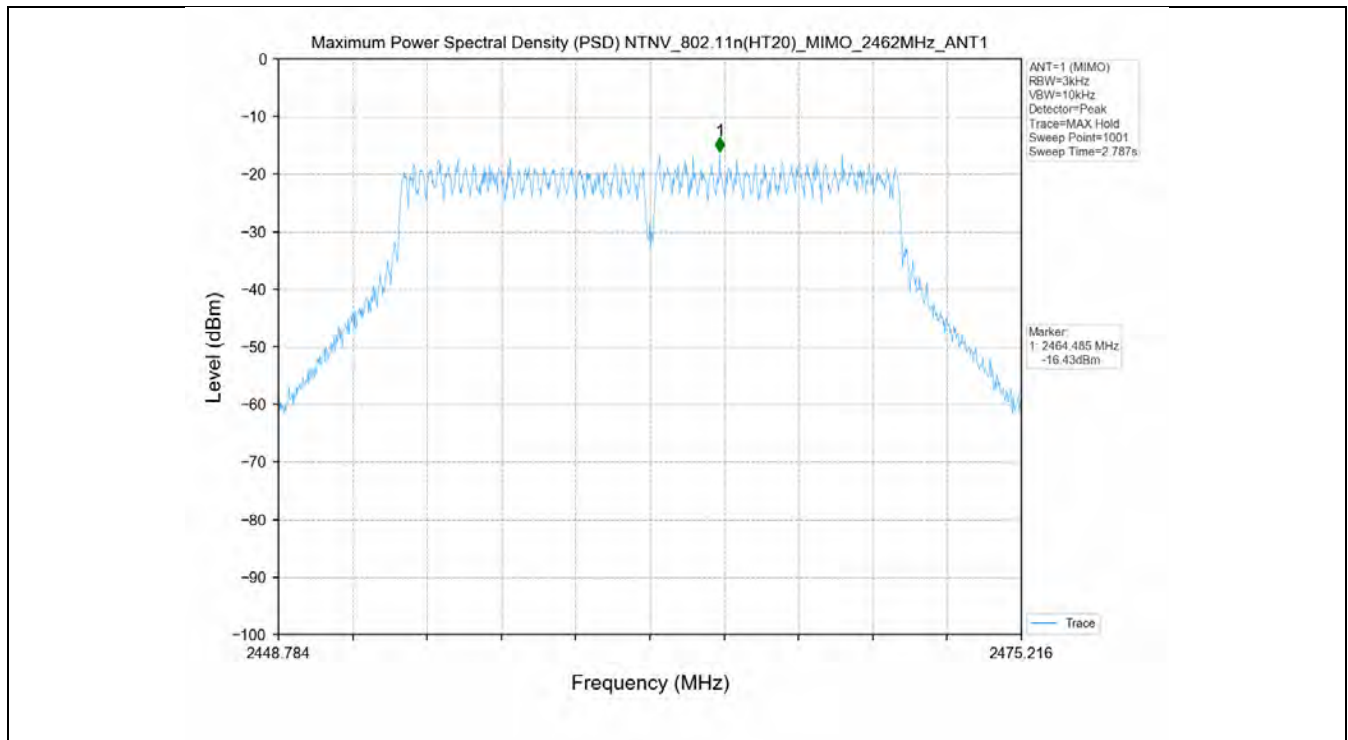


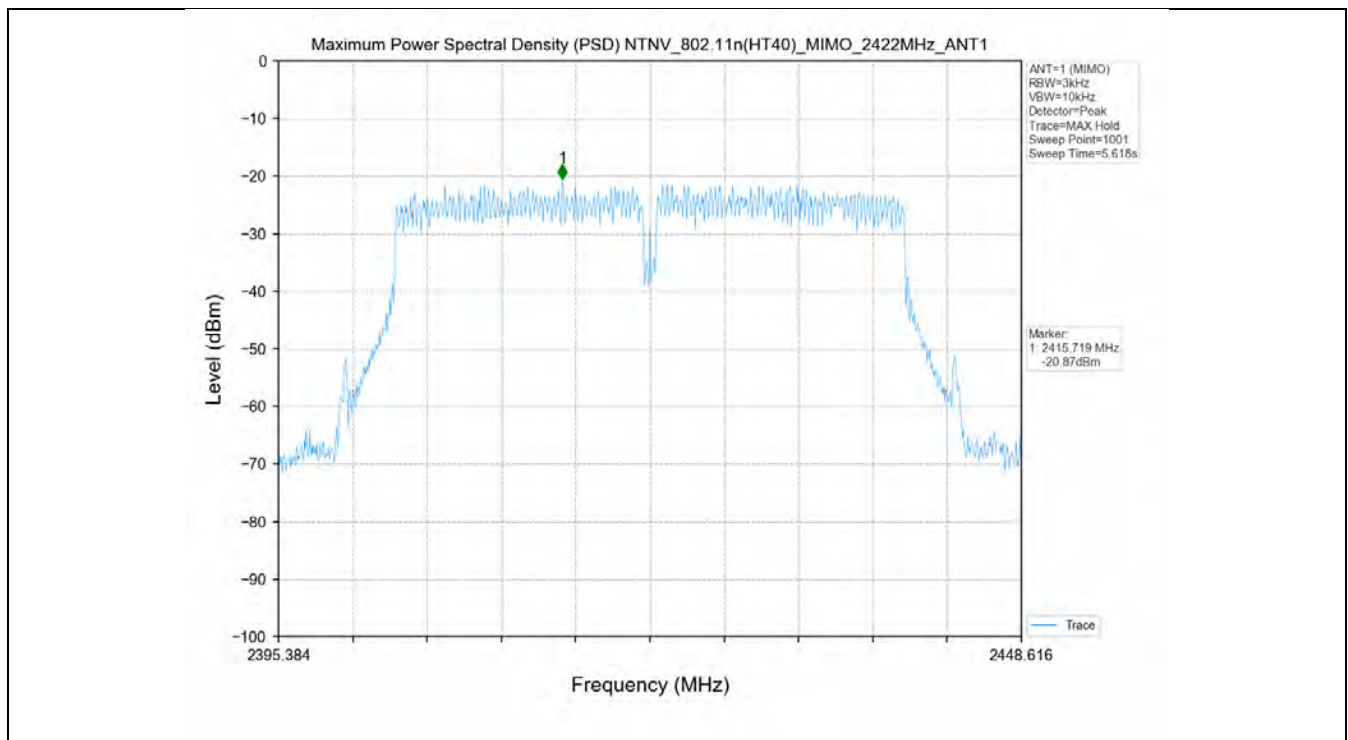
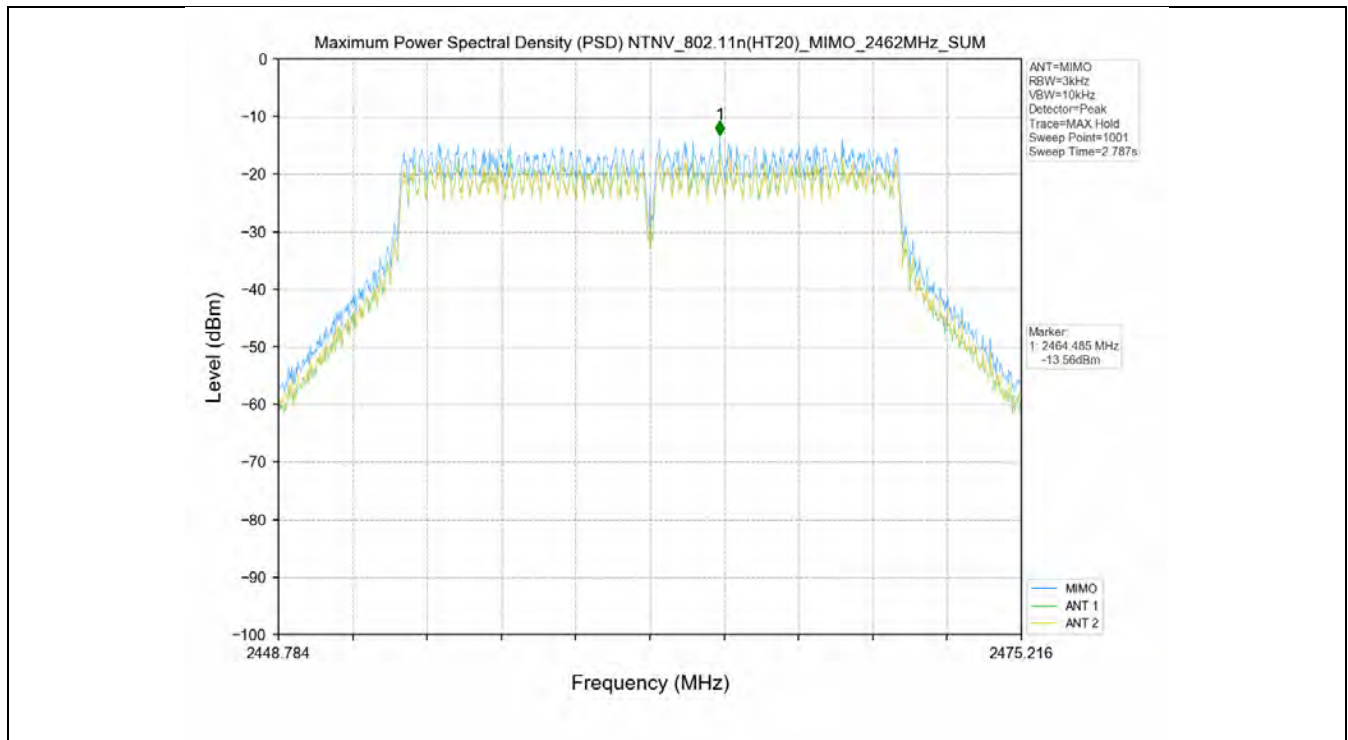


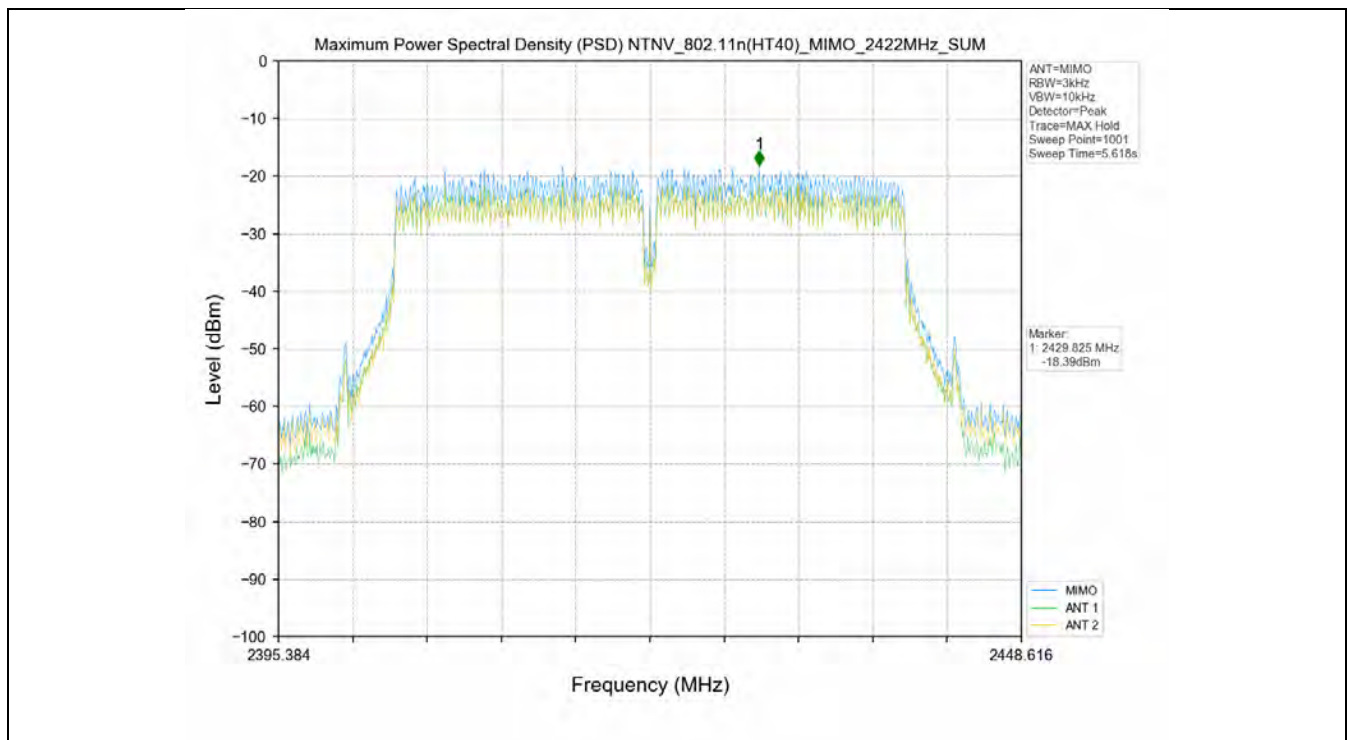
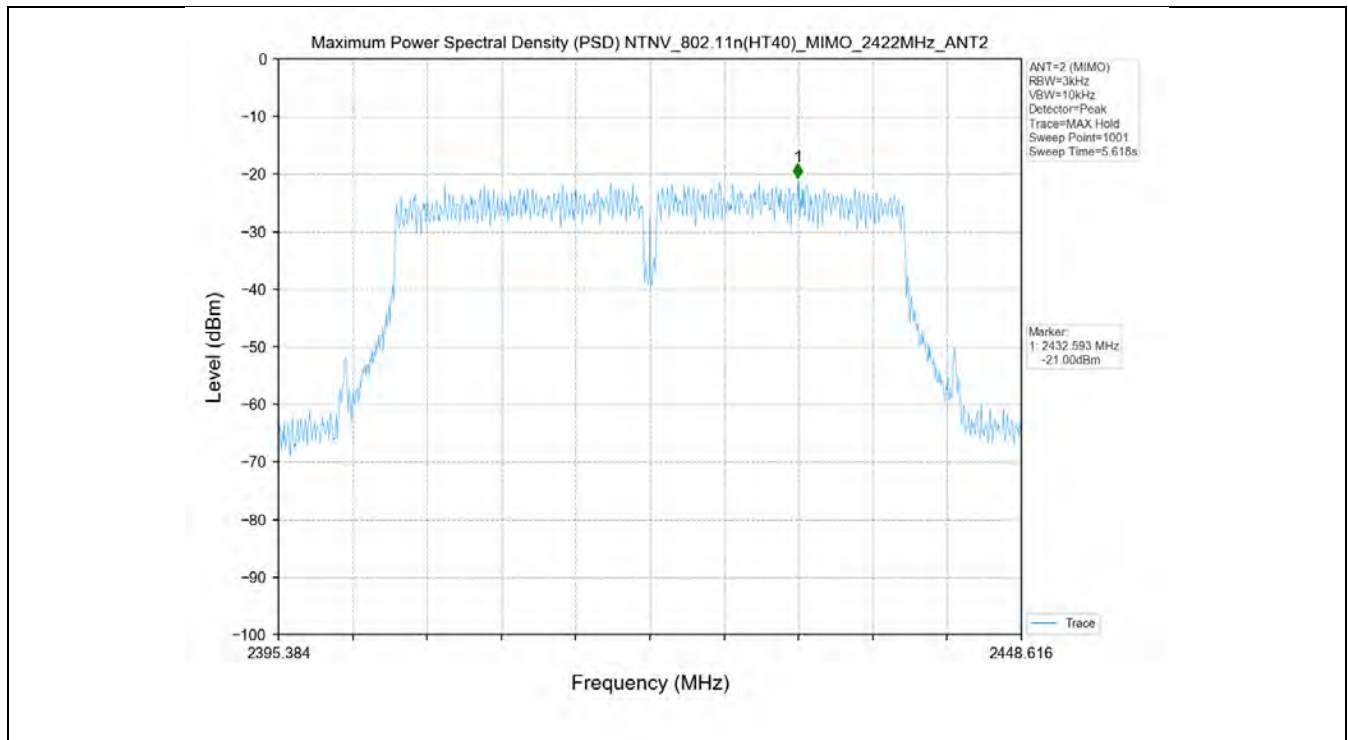


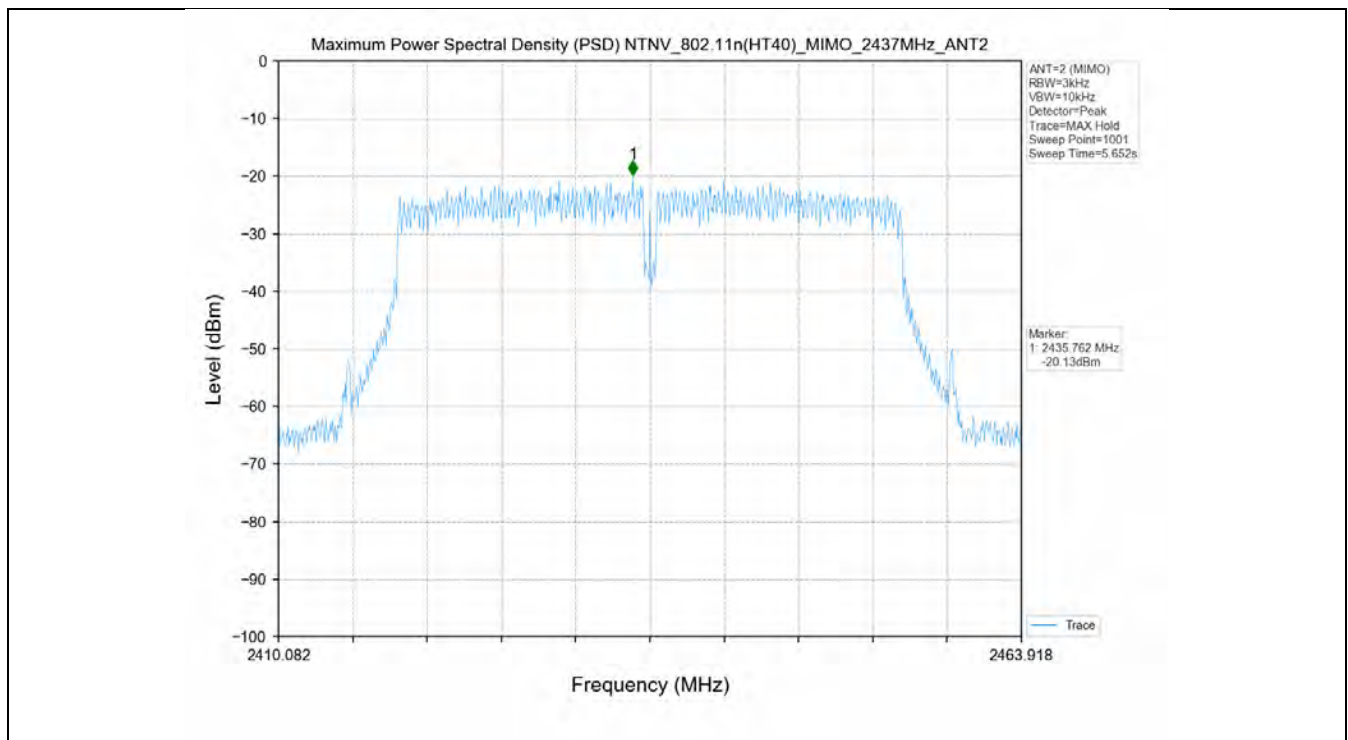
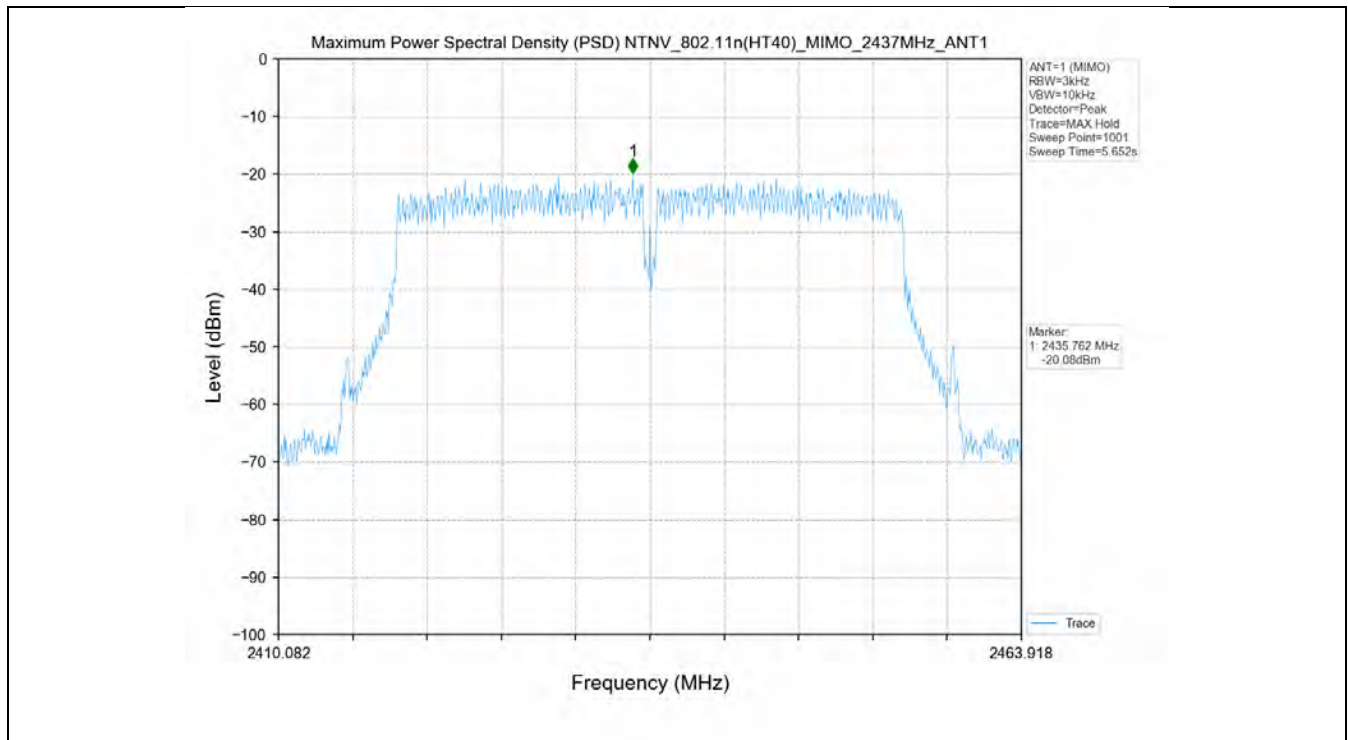


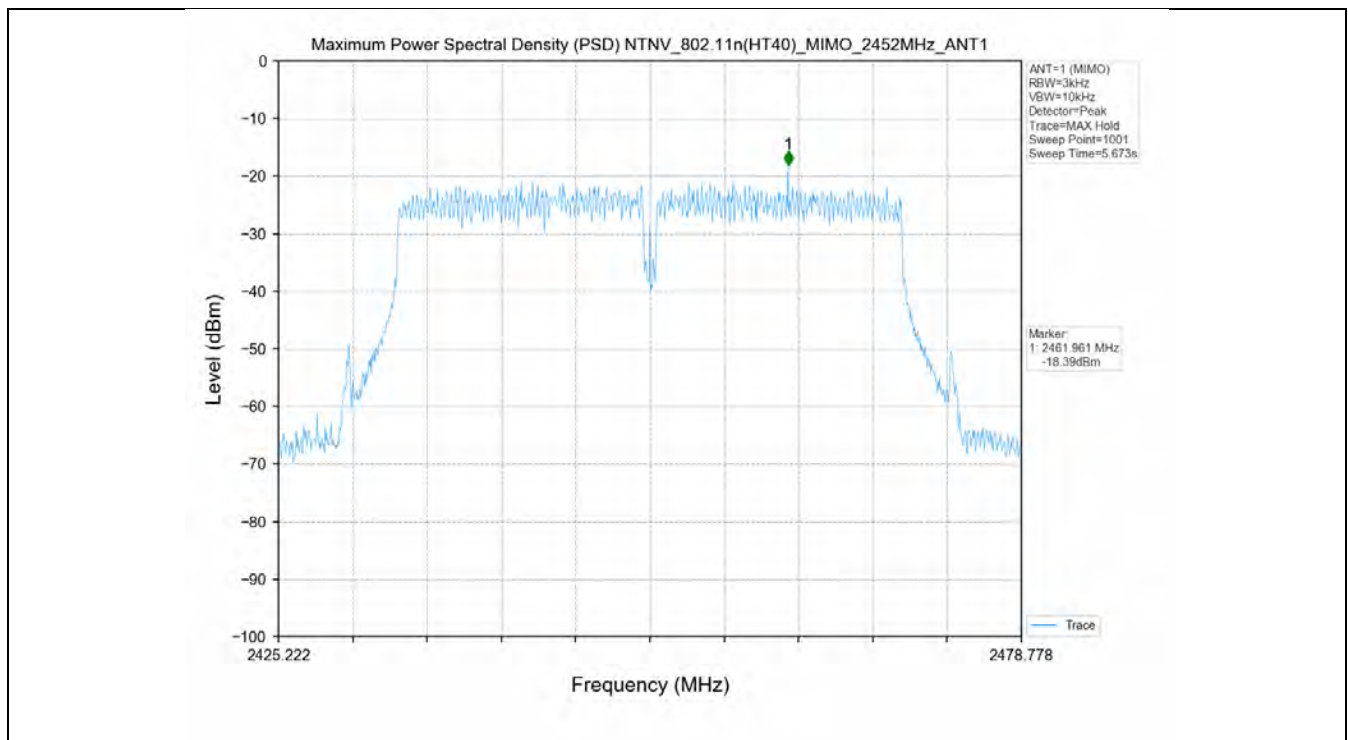
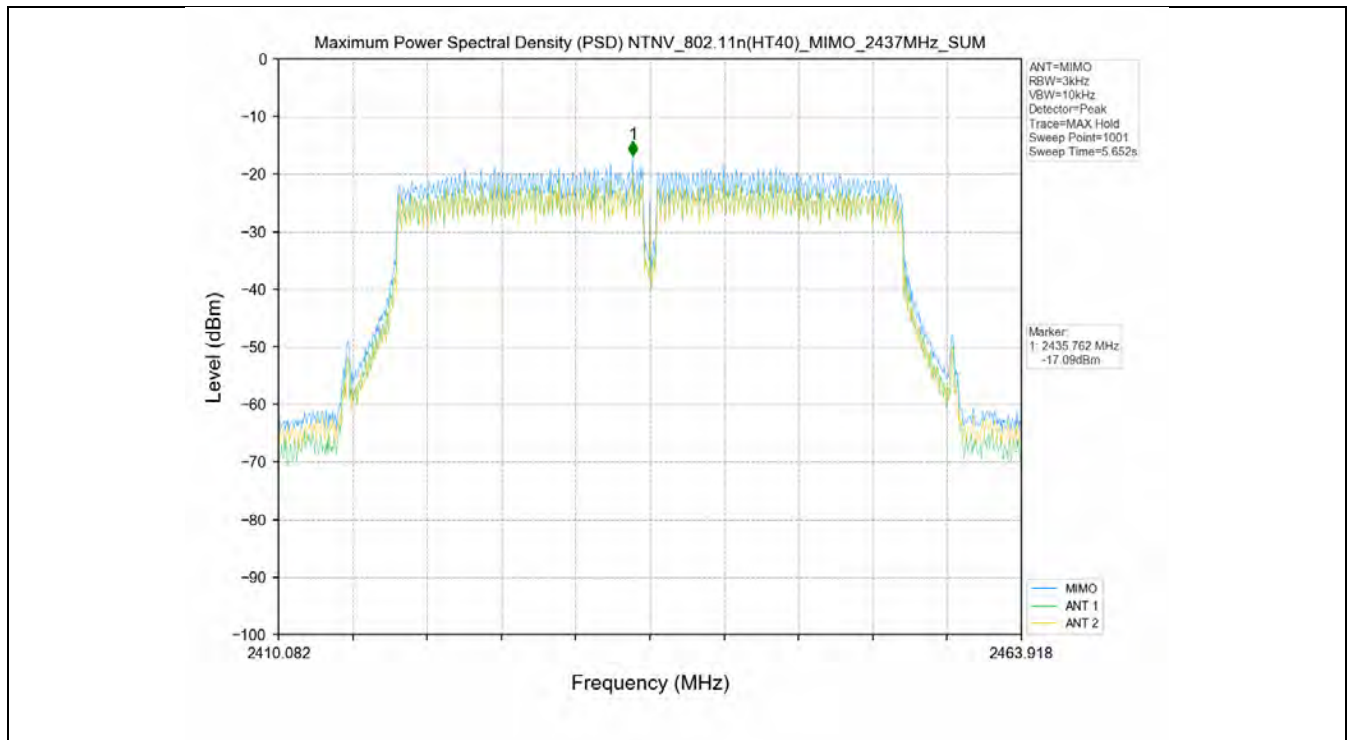


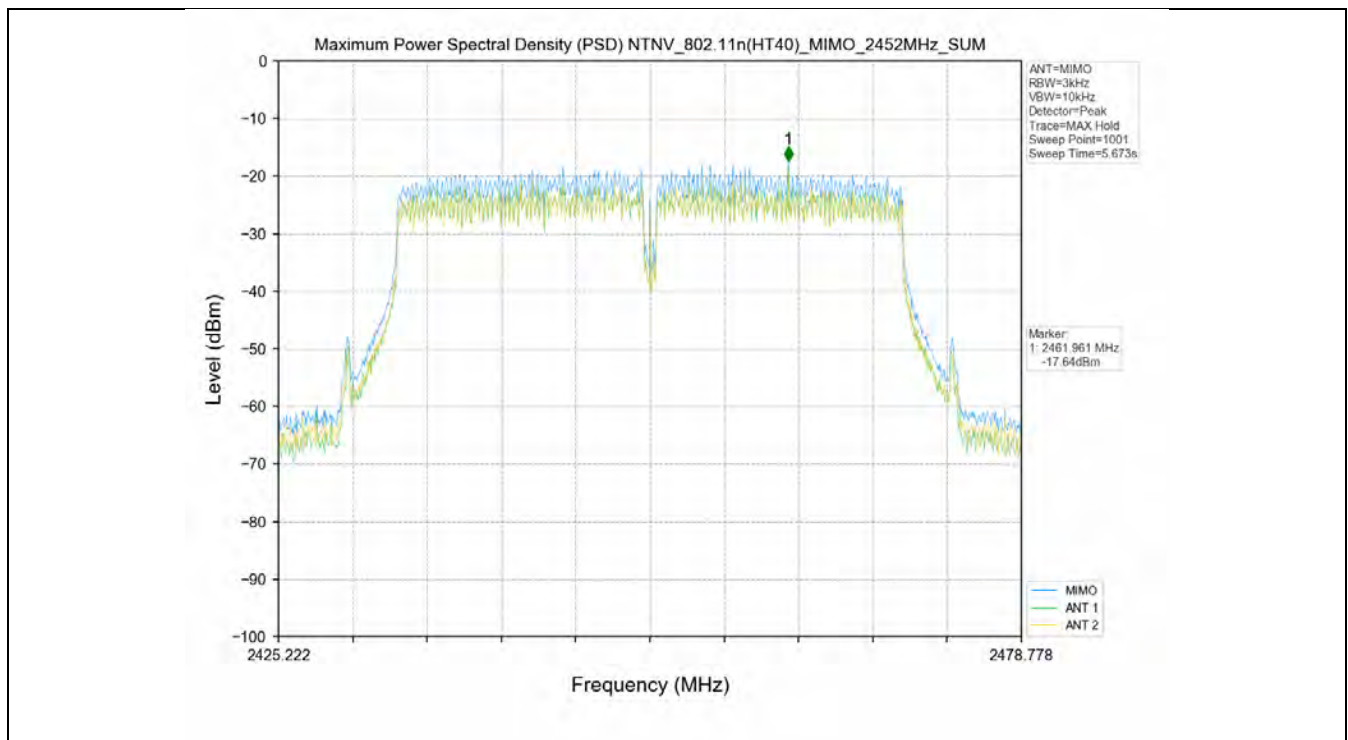
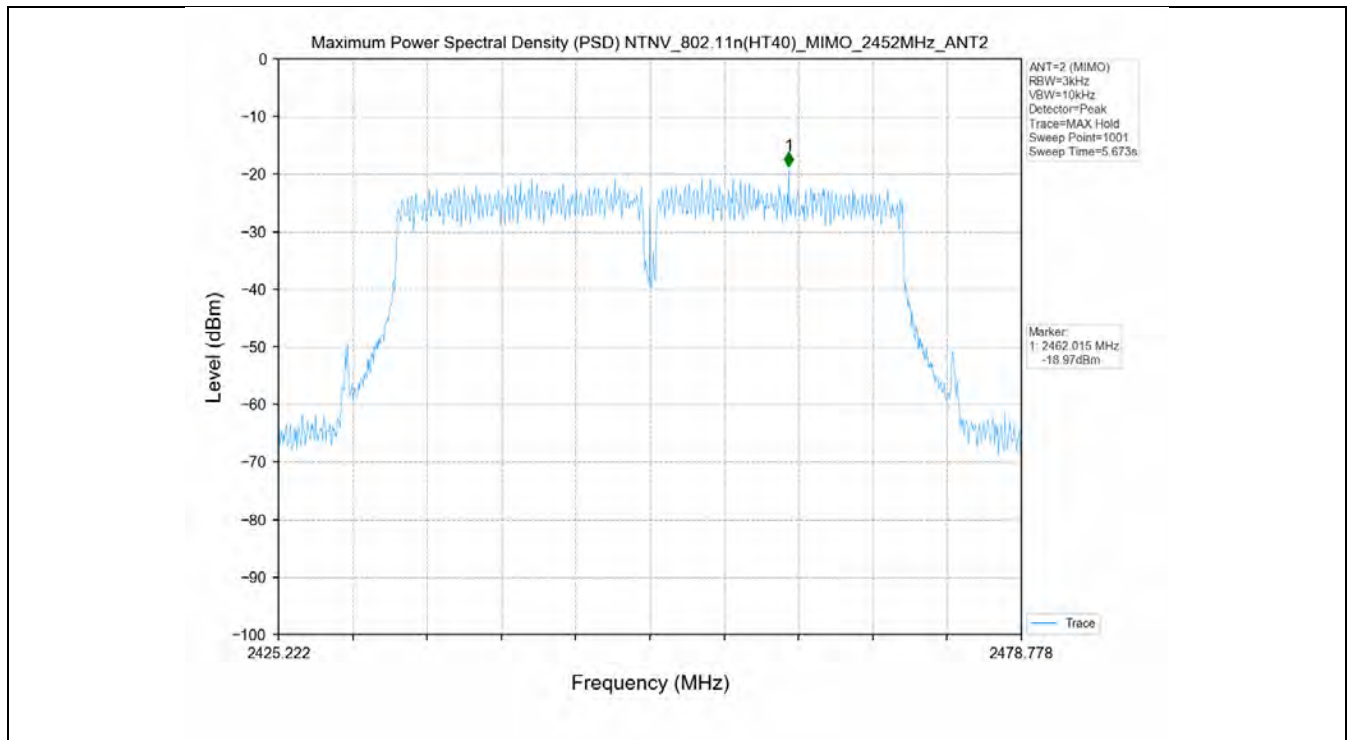














5. Unwanted Emissions in Non-restricted Frequency Bands

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	-14.01	PASS
			2	Refer to test graph	-14.01	PASS
	2437	SISO	1	Refer to test graph	-14.01	PASS
			2	Refer to test graph	-14.01	PASS
	2462	SISO	1	Refer to test graph	-14.01	PASS
			2	Refer to test graph	-14.01	PASS
802.11g	2412	SISO	1	Refer to test graph	-20.74	PASS
			2	Refer to test graph	-20.74	PASS
	2437	SISO	1	Refer to test graph	-20.74	PASS
			2	Refer to test graph	-20.74	PASS
	2462	SISO	1	Refer to test graph	-20.74	PASS
			2	Refer to test graph	-20.74	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-22.22	PASS
			2	Refer to test graph	-22.22	PASS
	2437	MIMO	1	Refer to test graph	-22.22	PASS
			2	Refer to test graph	-22.22	PASS
	2462	MIMO	1	Refer to test graph	-22.22	PASS
			2	Refer to test graph	-22.22	PASS
802.11n(HT40)	2422	MIMO	1	Refer to test graph	-26.20	PASS
			2	Refer to test graph	-26.20	PASS
	2437	MIMO	1	Refer to test graph	-26.20	PASS
			2	Refer to test graph	-26.20	PASS
	2452	MIMO	1	Refer to test graph	-26.20	PASS
			2	Refer to test graph	-26.20	PASS

5.2 Test Graph

