Appendix for SHEM2010008914CR

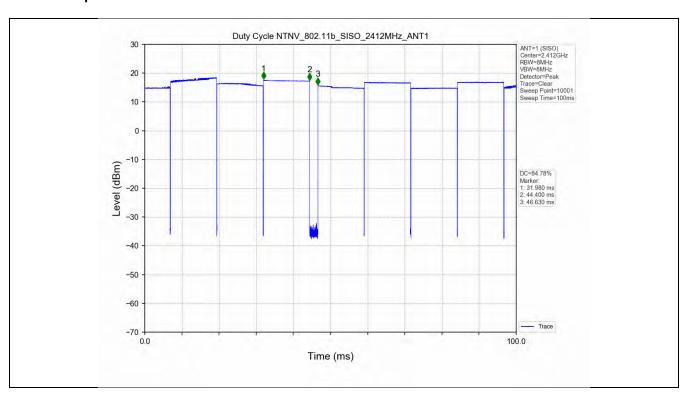
1. Duty Cycle

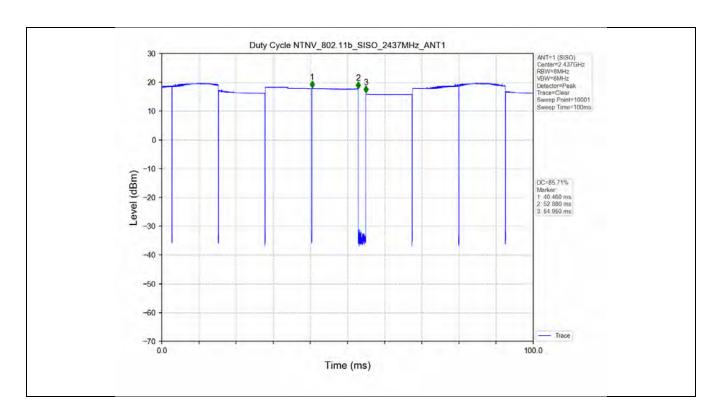
1.1 Test Result

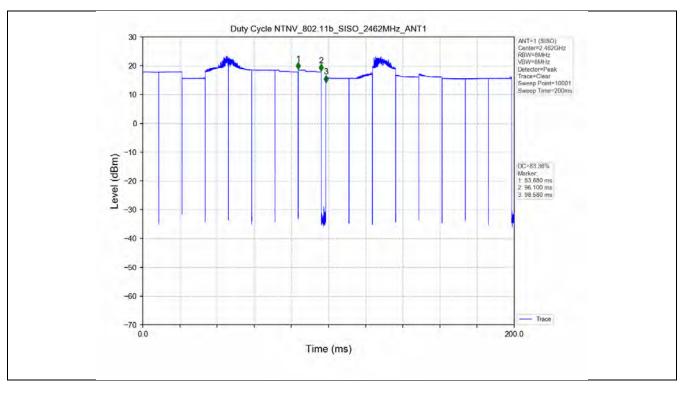
Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.420	14.650	84.78	0.72
	2437	SISO	1	12.420	14.490	85.71	0.67
	2462	SISO	1	12.420	14.900	83.36	0.79
802.11g	2412	SISO	1	2.064	2.198	93.90	0.27
	2437	SISO	1	2.064	2.237	92.27	0.35
	2462	SISO	1	2.064	2.227	92.68	0.33
802.11n(HT20)	2412	MIMO	1	1.918	2.081	92.17	0.35
	2437	MIMO	1	1.921	2.093	91.78	0.37
	2462	MIMO	1	1.921	2.092	91.83	0.37
802.11n(HT40)	2422	MIMO	1	0.942	1.106	85.17	0.70
	2437	MIMO	1	0.943	1.114	84.65	0.72
	2452	MIMO	1	0.920	1.087	84.64	0.72

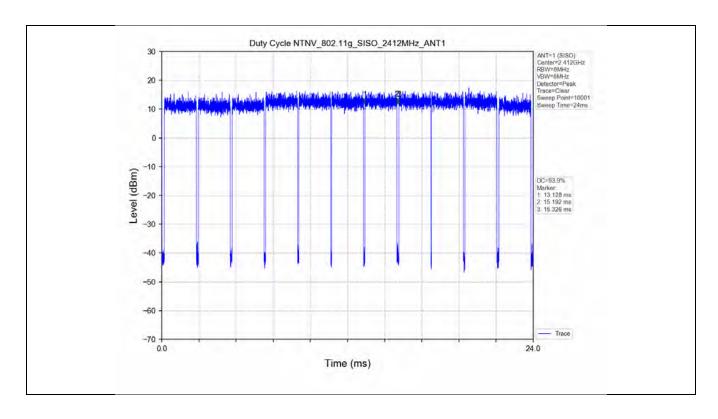
Note: We evaluated all the antennas and only the worst case is given in the report

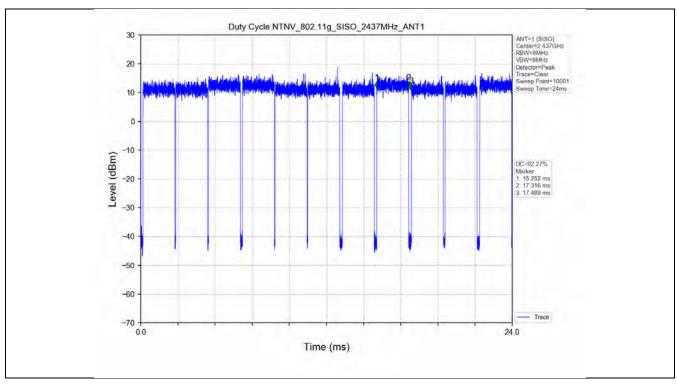
1.2 Test Graph

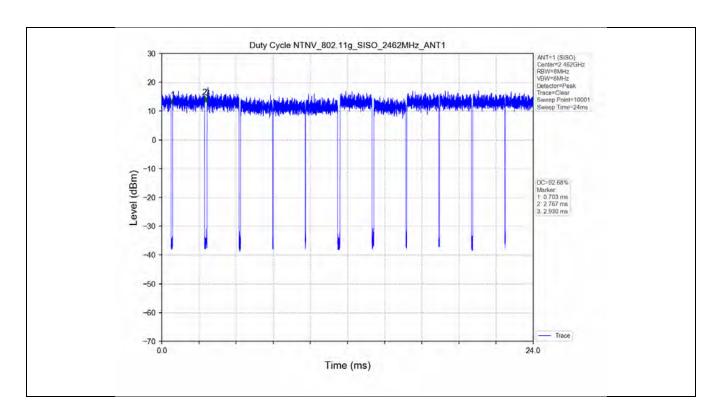


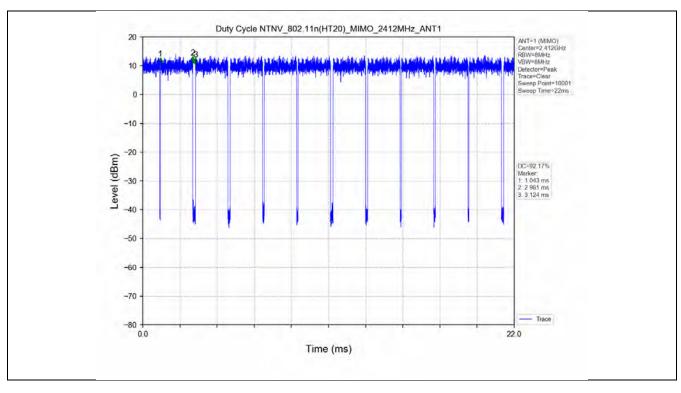


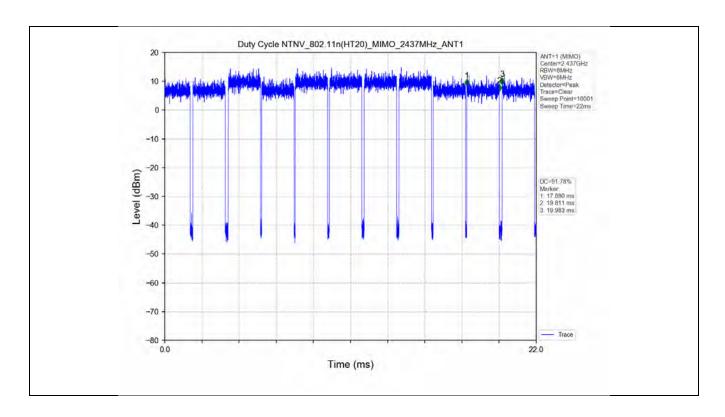


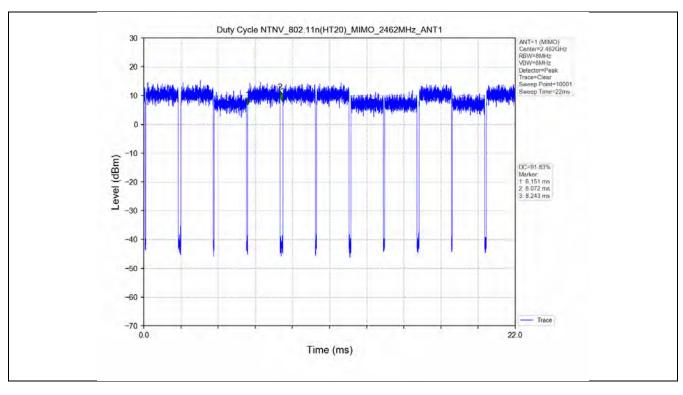


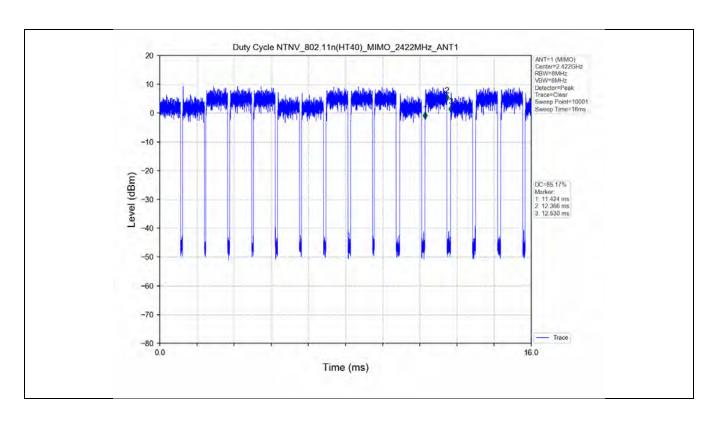


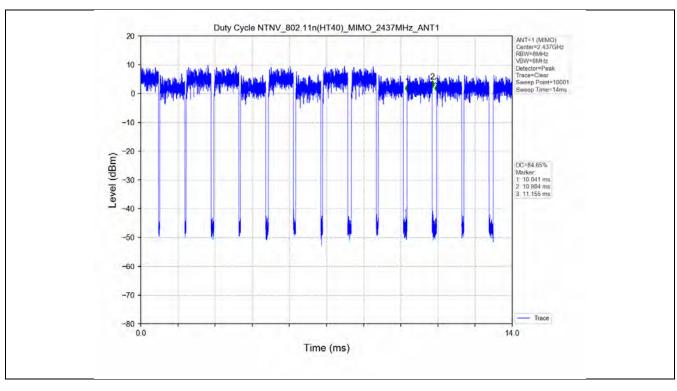


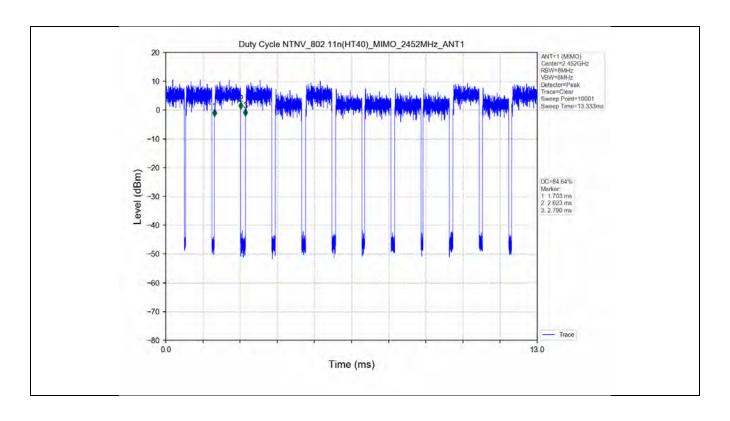












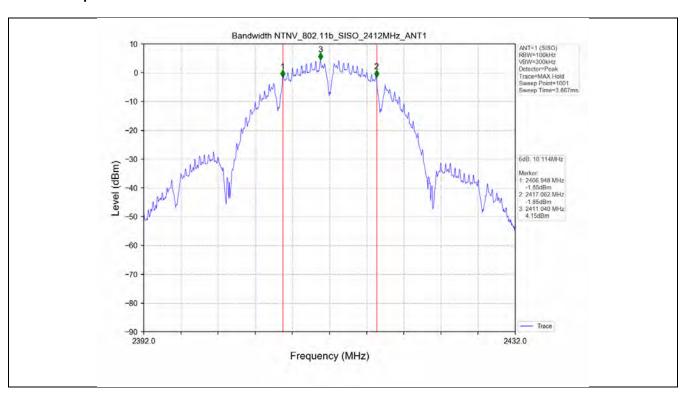
2. Bandwidth

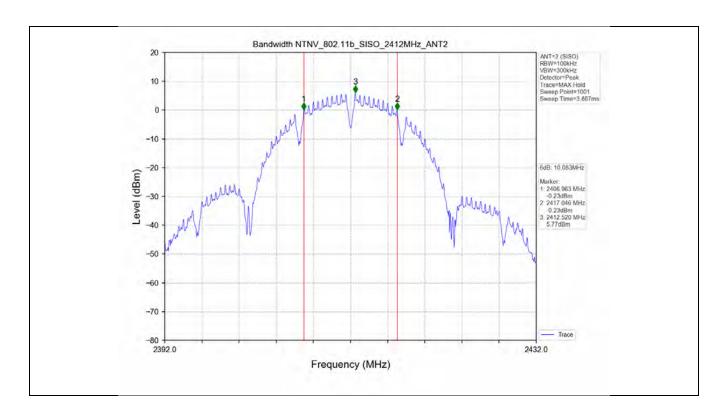
2.1 Test Result

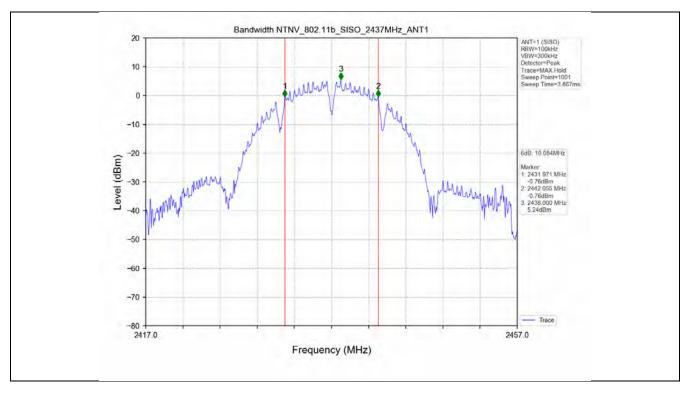
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bar	\/andiat	
			ANT NO.	Test Result (MHz)	Limits (MHz)	Verdict
802.11b	2412	SISO	1	10.114	≥0.5	PASS
			2	10.083	≥0.5	PASS
	2437	SISO	1	10.084	≥0.5	PASS
			2	10.115	≥0.5	PASS
	2462	SISO	1	9.606	≥0.5	PASS
	2402		2	10.036	≥0.5	PASS
	2412	SISO	1	16.390	≥0.5	PASS
			2	16.388	≥0.5	PASS
902 11a	2437	SISO	1	16.424	≥0.5	PASS
802.11g	2437		2	16.461	≥0.5	PASS
	2462	SISO	1	16.393	≥0.5	PASS
	2402		2	16.412	≥0.5	PASS
802.11n(HT20)	2412	МІМО	1	17.605	≥0.5	PASS
			2	17.599	≥0.5	PASS
	2437	МІМО	1	17.625	≥0.5	PASS
			2	17.620	≥0.5	PASS
	2462	MIMO	1	17.633	≥0.5	PASS
			2	17.601	≥0.5	PASS
802.11n(HT40)	2422	MIMO	1	36.123	≥0.5	PASS
			2	35.838	≥0.5	PASS
	2437	МІМО	1	35.793	≥0.5	PASS
			2	35.530	≥0.5	PASS
	2452	MIMO	1	35.259	≥0.5	PASS
			2	35.376	≥0.5	PASS

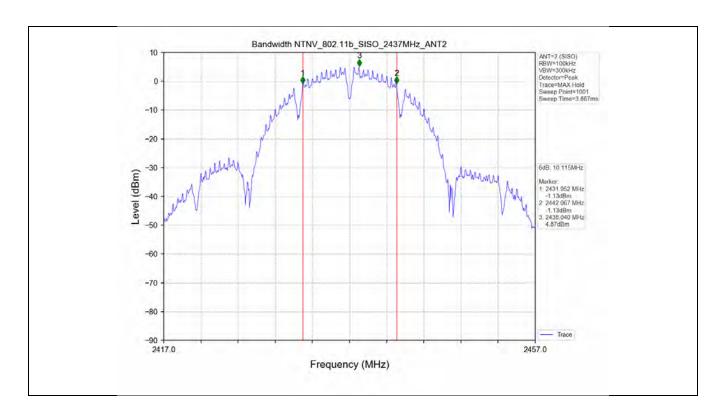
Test Mode	Frequency	TV Type	ANT No.	99% Occupied Bandwidth			
Test Mode	(MHz)	17 Type		Test Res	ult (MHz)		
	2412	SISO	1	15.429	Only for Report Use		
			2	15.468	Only for Report Use		
000 11h	2427	CICO	1	15.309	Only for Report Use		
002.110	2437	3130	2	15.423	Only for Report Use		
2412 SISO 1 2 2 2 2 2 2 2 2 2	1	15.311	Only for Report Use				
	2402	5150	2	15.327	Only for Report Use		
	0440	CICO	1	17.098	Only for Report Use		
	2412	5150	2	17.074	Only for Report Use		
000 44=	0407	SISO	1	17.092	Only for Report Use		
802.11g	2437		2	17.238	Only for Report Use		
	2462	SISO	1	17.011	Only for Report Use		
			2	17.078	Only for Report Use		
	2442	MIMO	1	18.195	Only for Report Use		
	2412		2	18.256	Only for Report Use		
902 11 _m /UT20)	2427	MIMO	1	18.166	Only for Report Use		
002.1111(1120)	2437	IVIIIVIO	2	18.123	Only for Report Use		
	2462	MIMO	1	18.141	Only for Report Use		
			2	18.156	Only for Report Use		
	2422	MIMO	1	36.687	Only for Report Use		
			2	36.631	Only for Report Use		
000 44 (UT40)	2437	MIMO	1	36.439	Only for Report Use		
802.11N(H140)			2	36.511	Only for Report Use		
	2452	MIMO	1	36.403	Only for Report Use		
			2	36.534	Only for Report Use		

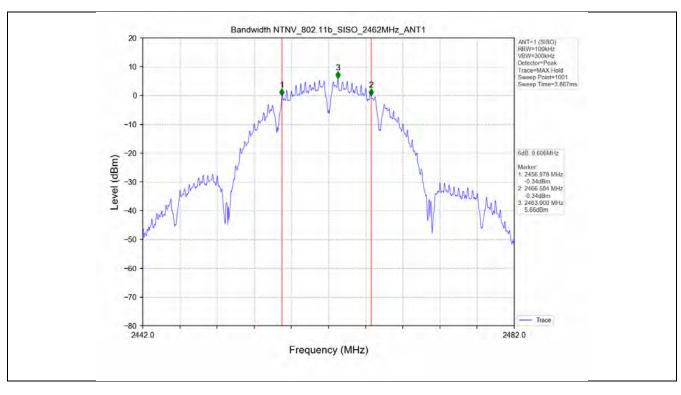
2.2 Test Graph - 6dB Bandwidth

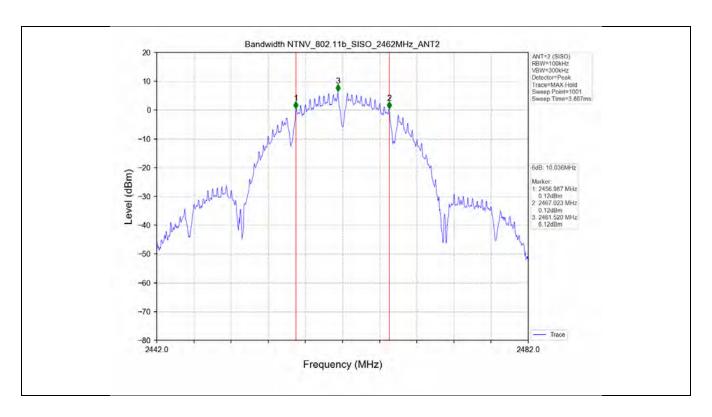


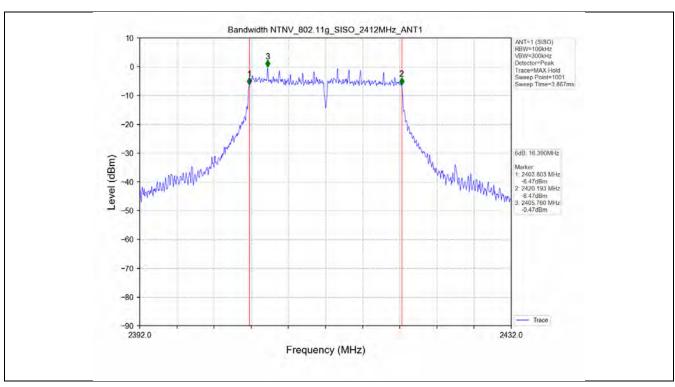


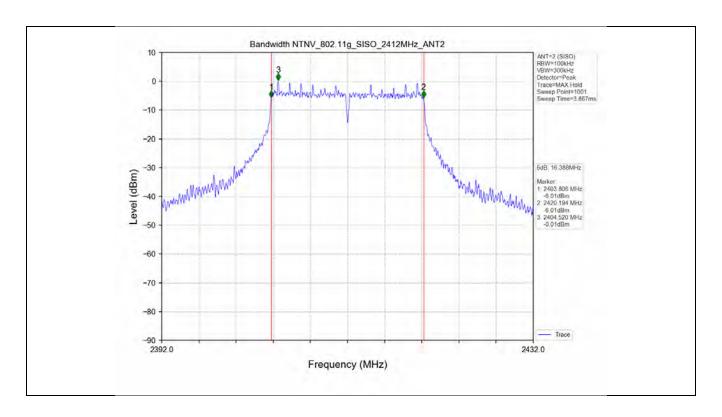


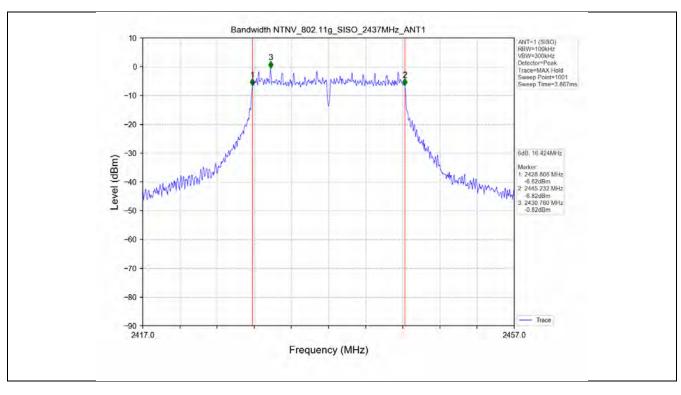


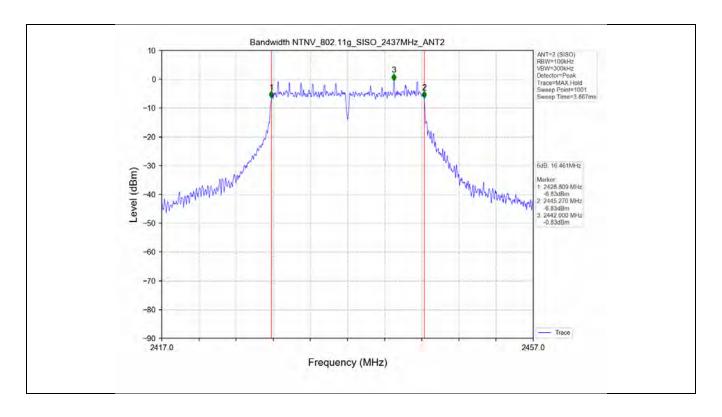


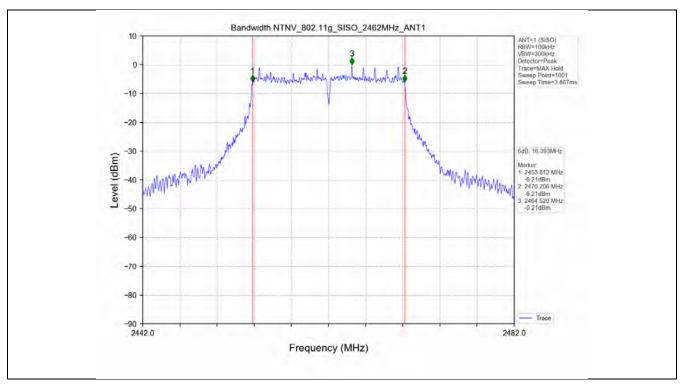


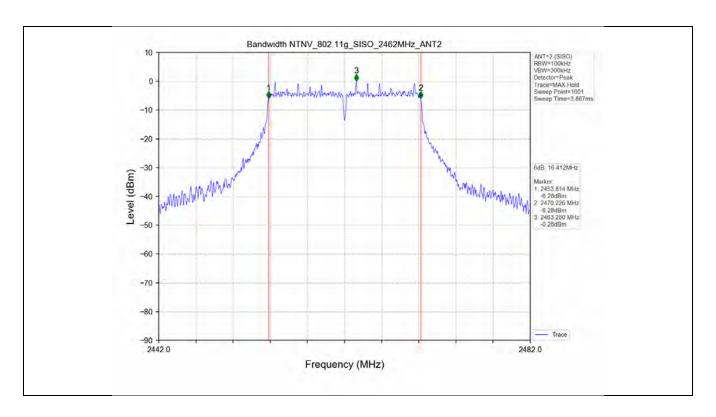


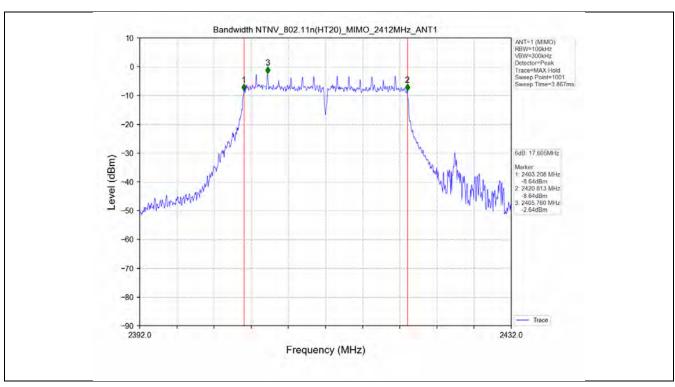


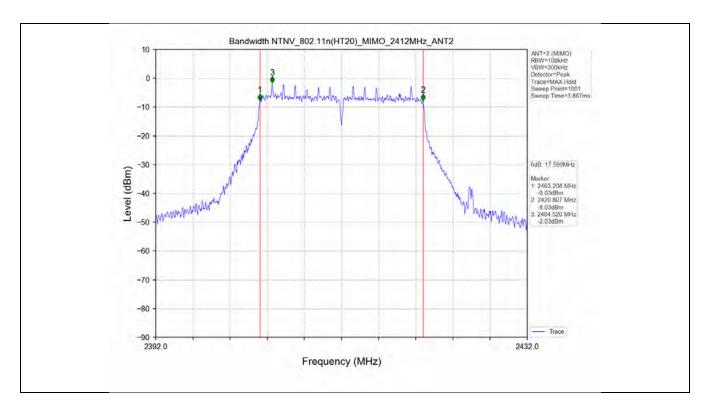


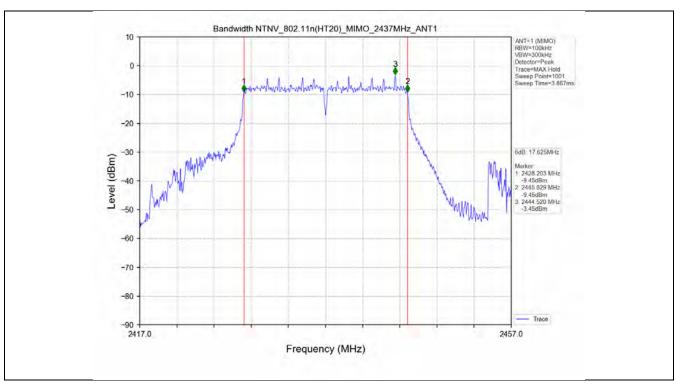


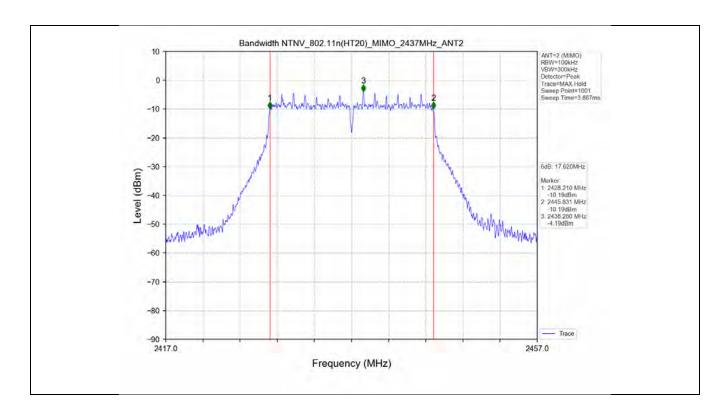


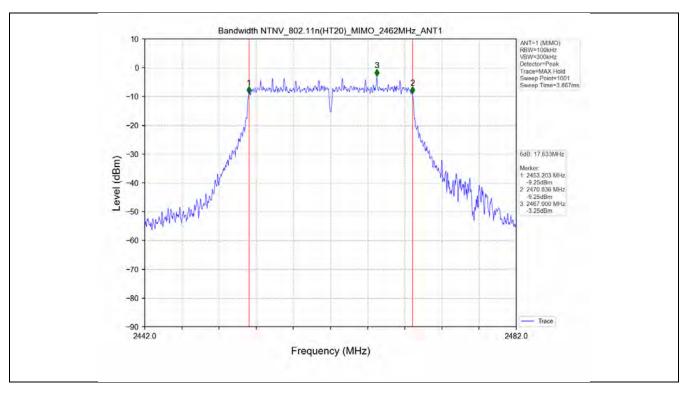


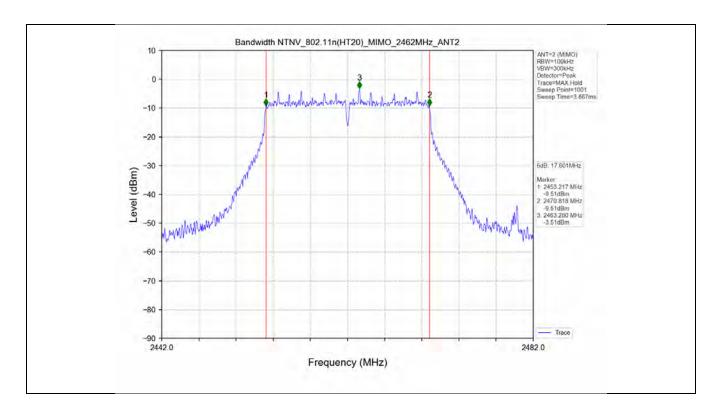


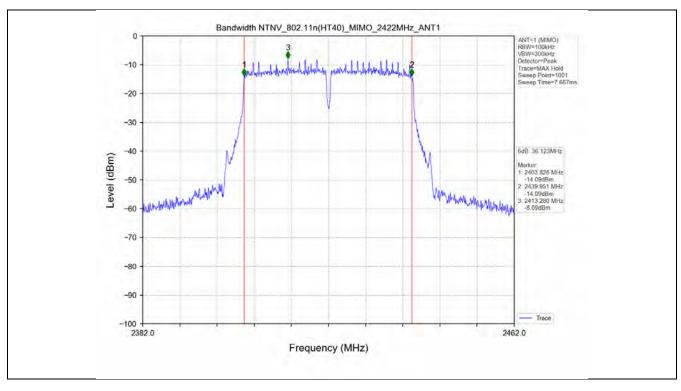


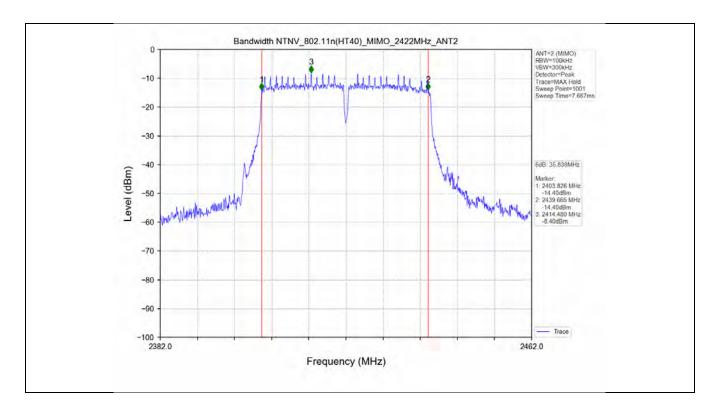


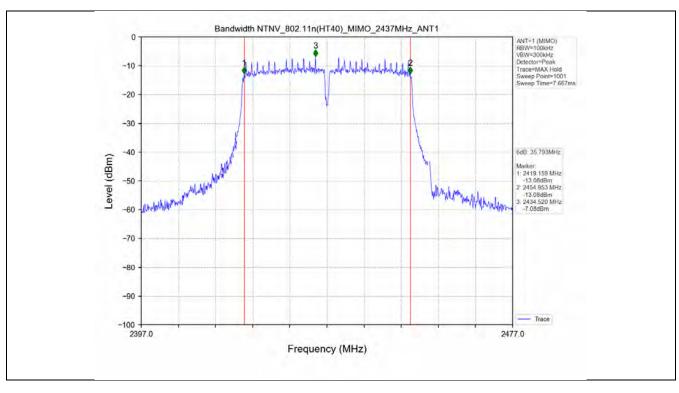


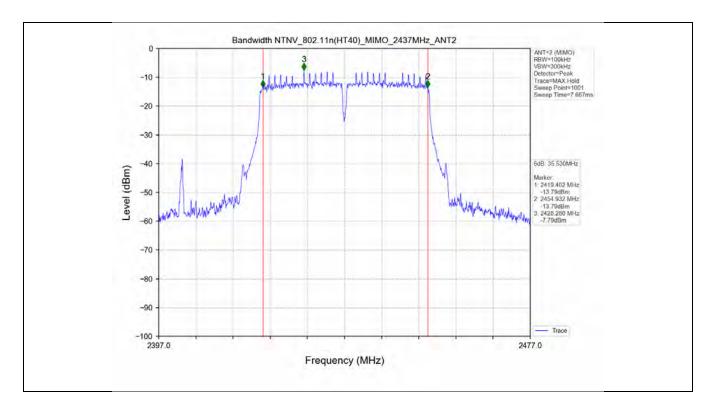


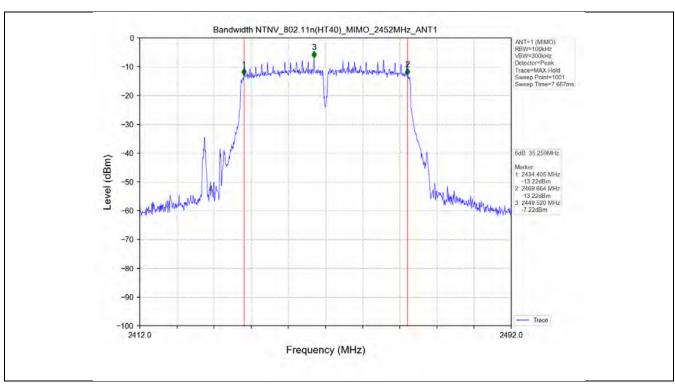


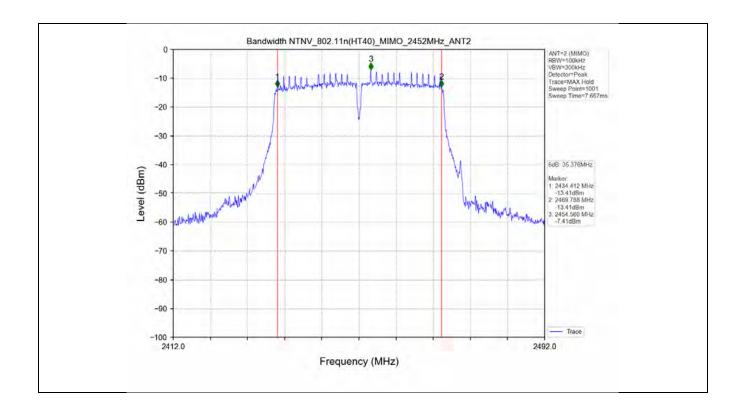




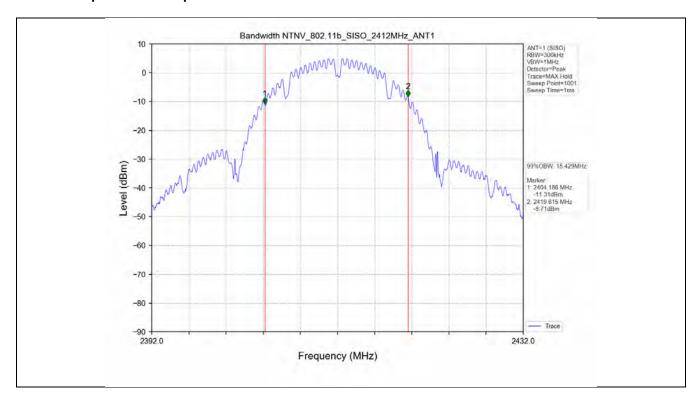


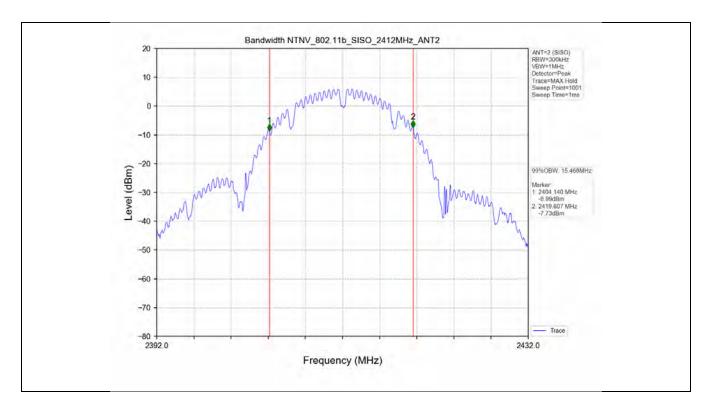


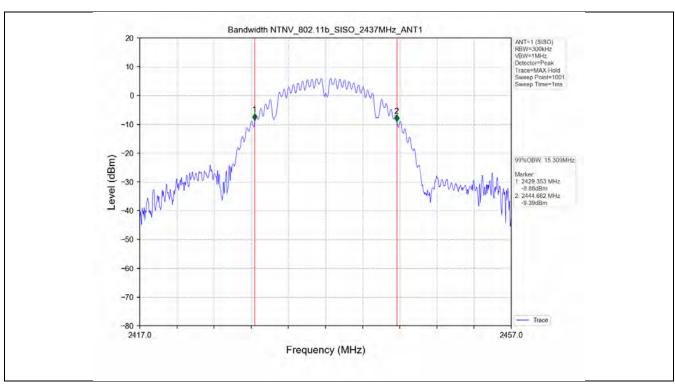


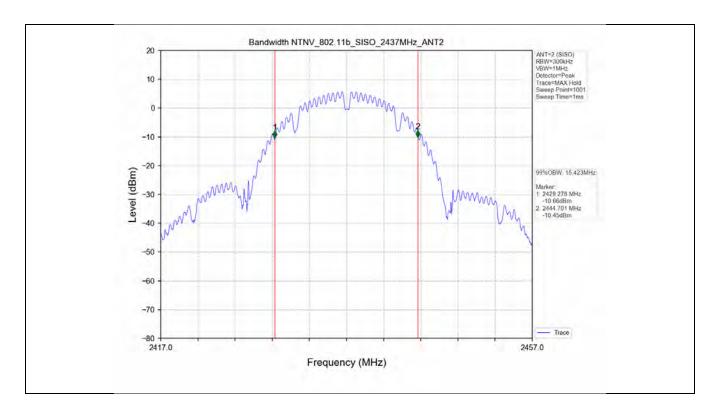


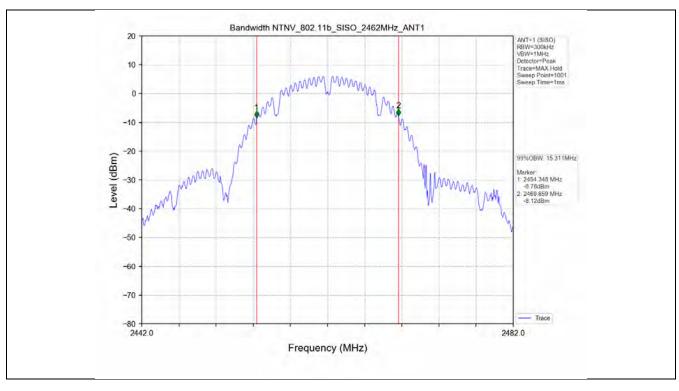
2.3 Test Graph - 99% Occupied Bandwidth

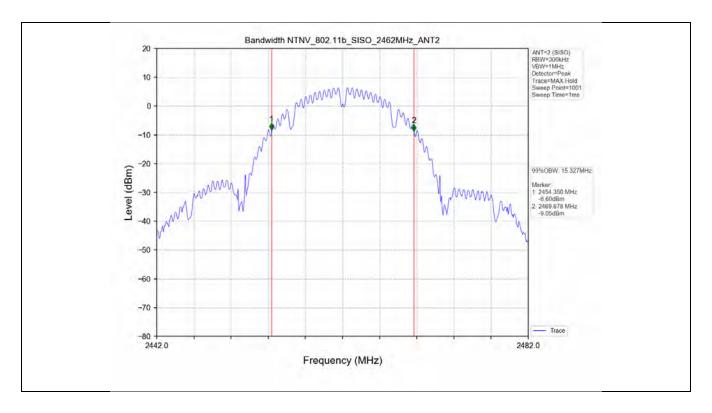


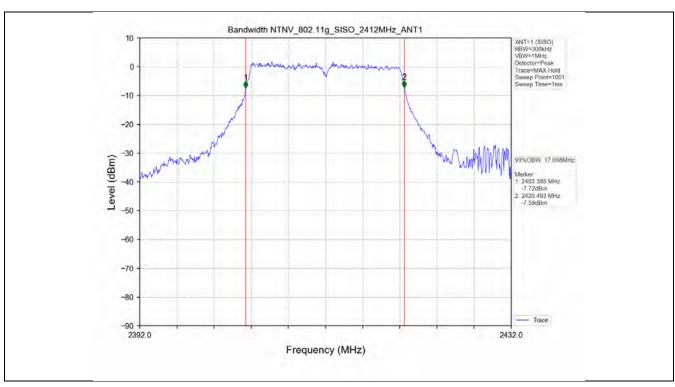


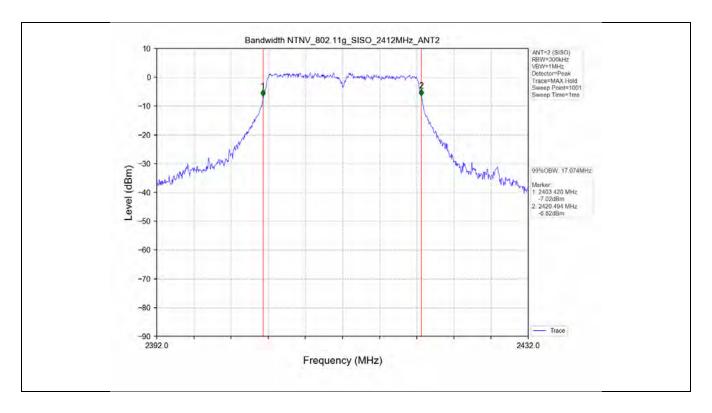


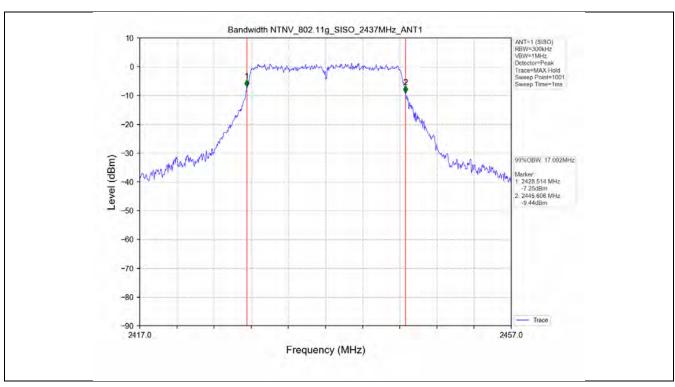


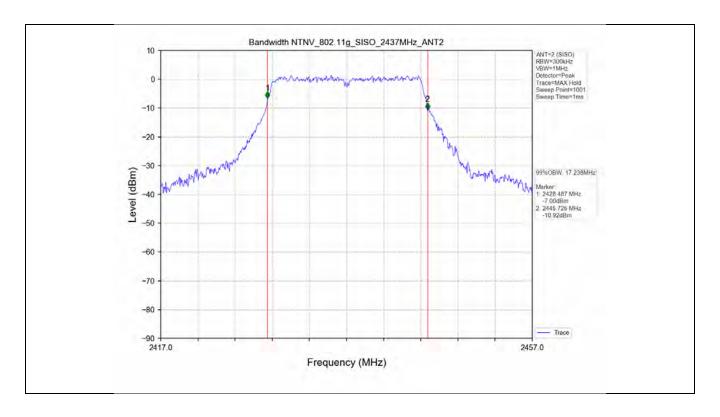


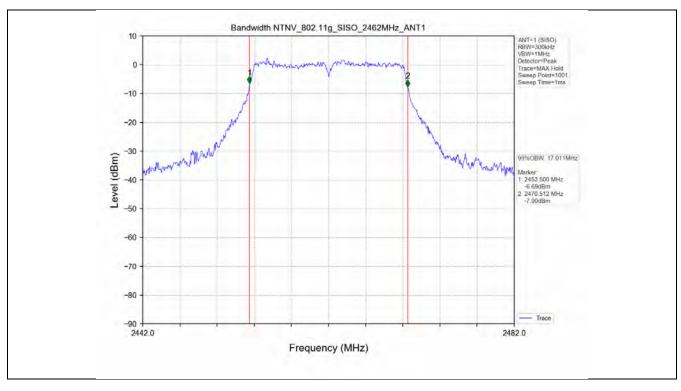


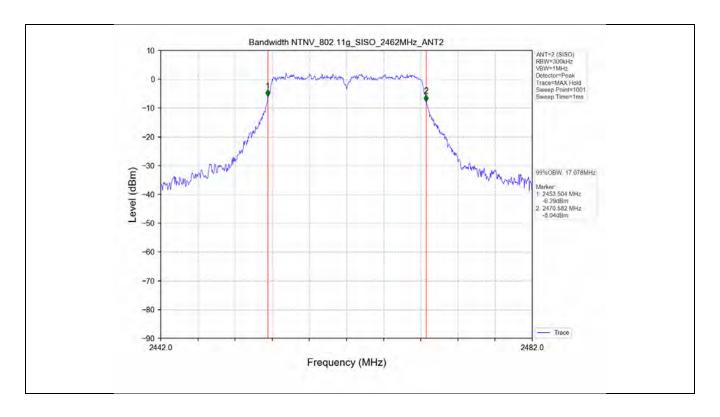


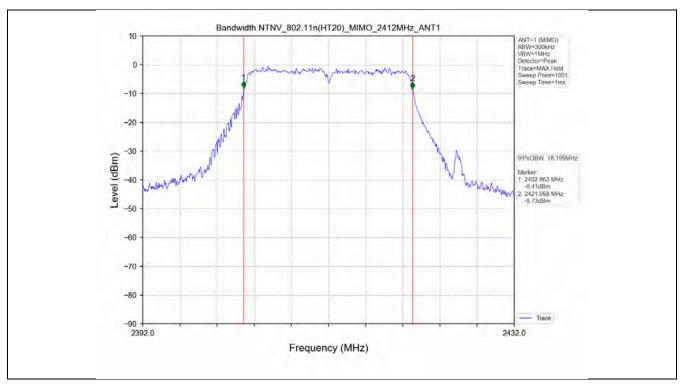


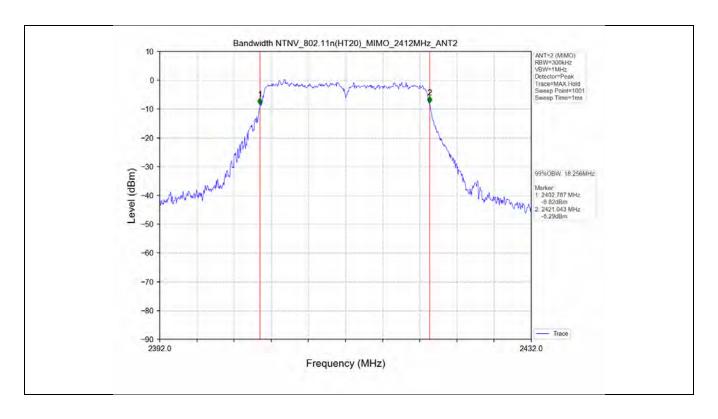


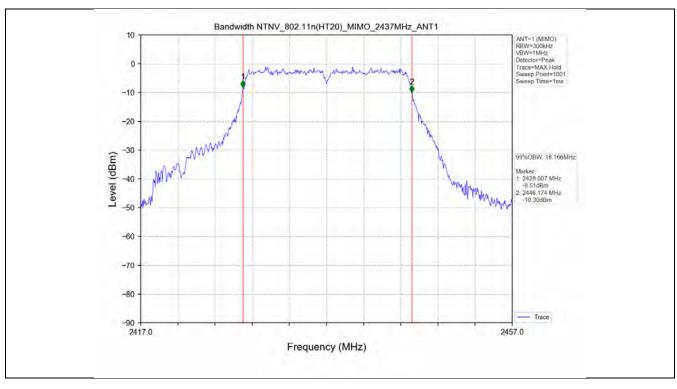


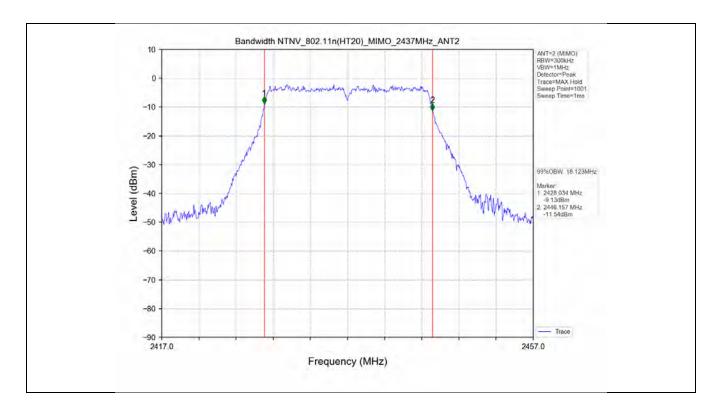


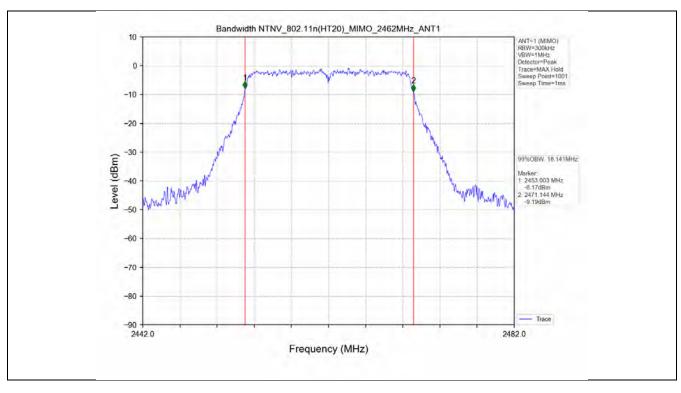


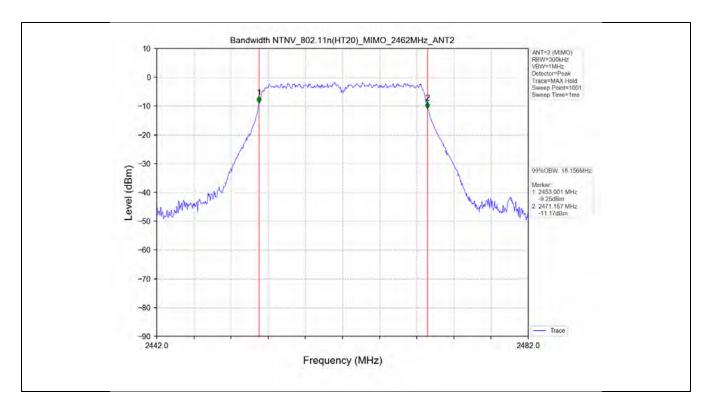


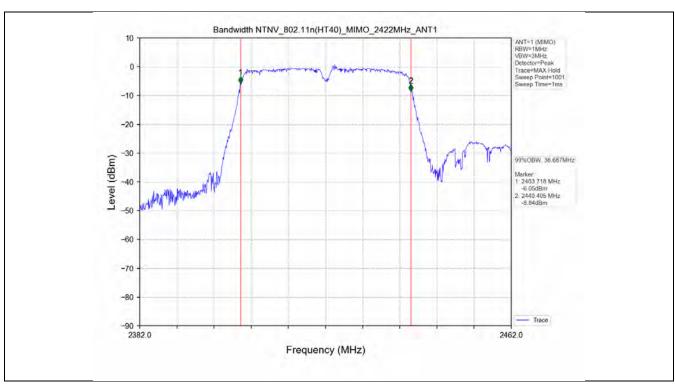


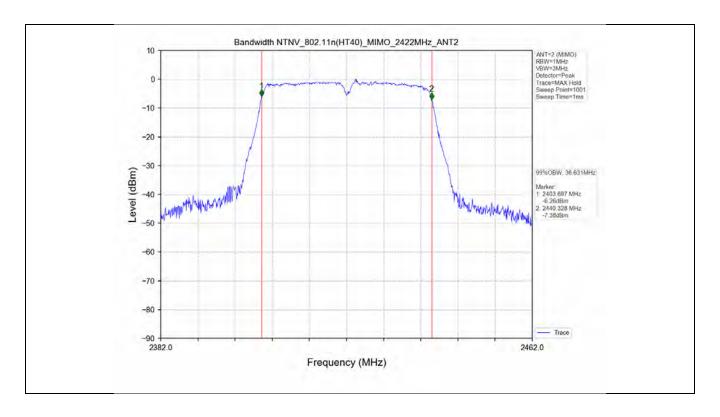


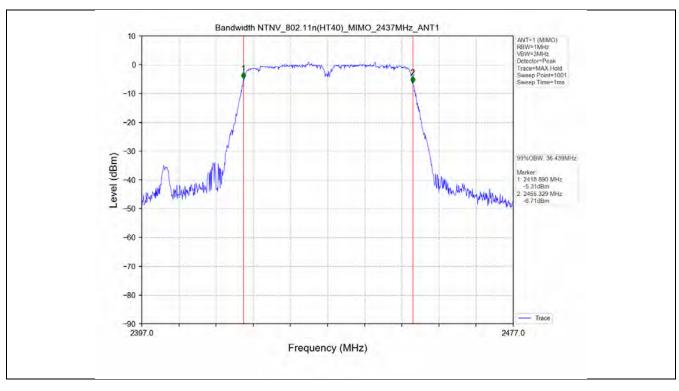


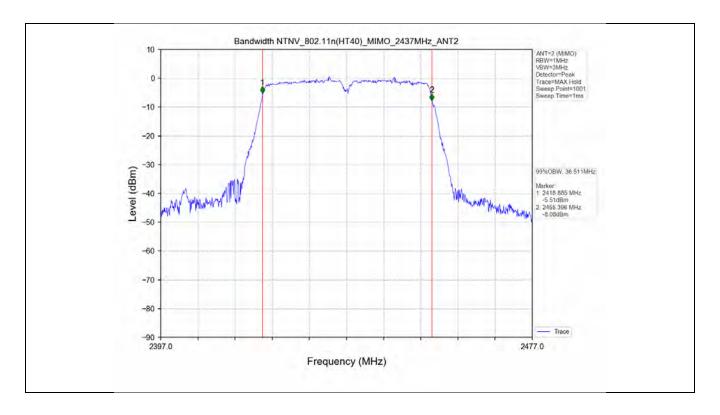


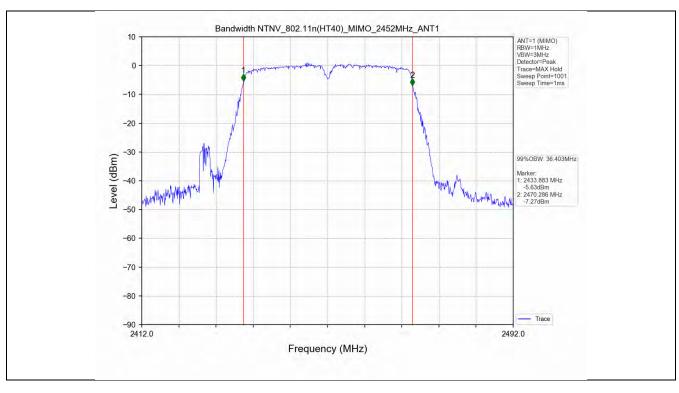


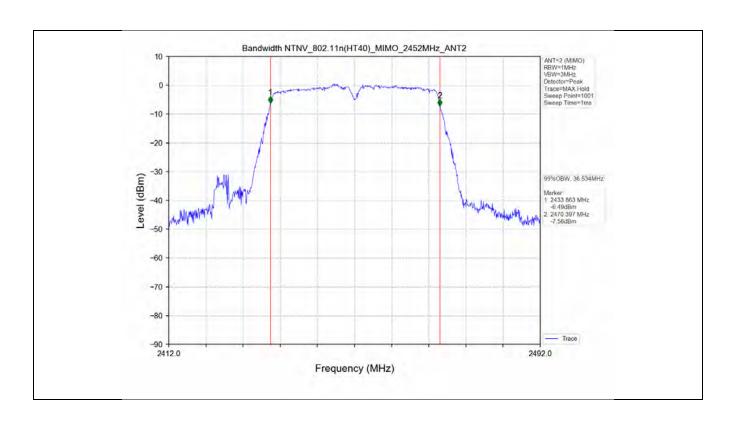










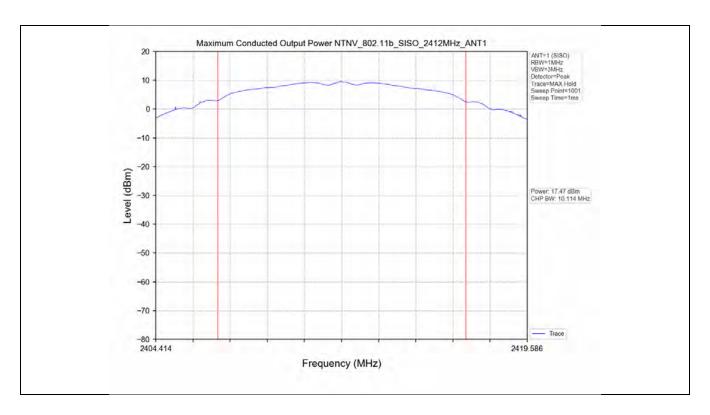


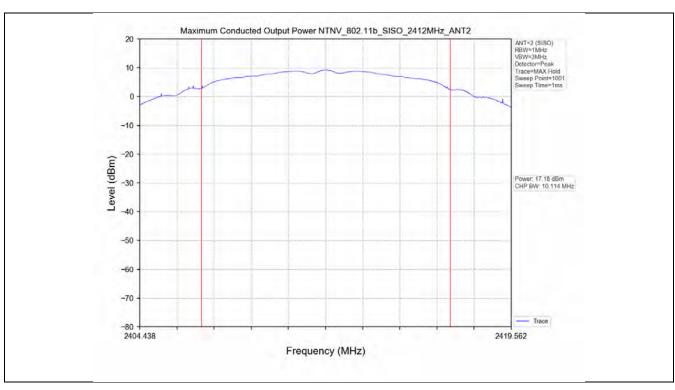
3. Maximum Conducted Output Power

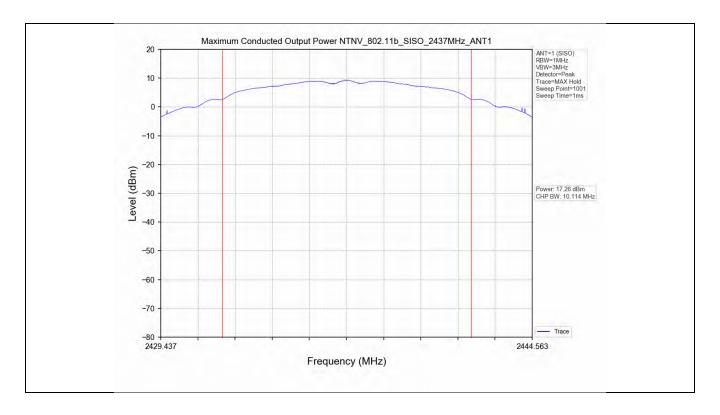
3.1 Test Result

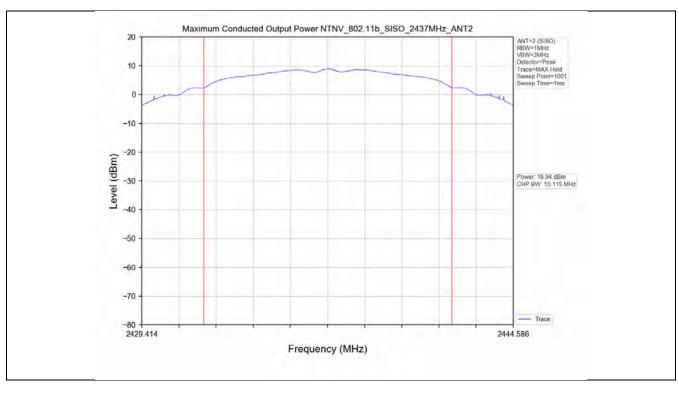
Test Mode	Frequency	Тх Туре	Measured Peak Output Power (dBm)			Limita (dPm)	Verdict
	(MHz)		Ant 1	Ant 2	Total	Limits (dBm)	veralci
802.11b	2412	SISO	17.47	17.18	/	30	PASS
	2437	SISO	17.26	16.94	/	30	PASS
	2462	SISO	17.33	17.56	1	30	PASS
802.11g	2412	SISO	17.84	18.24	/	30	PASS
	2437	SISO	17.56	17.92	/	30	PASS
	2462	SISO	17.49	17.45	/	30	PASS
802.11n(HT20)	2412	MIMO	14.70	15.43	18.09	30	PASS
	2437	MIMO	15.28	14.49	17.91	30	PASS
	2462	MIMO	15.99	15.08	18.57	30	PASS
802.11n(HT40)	2422	MIMO	13.75	13.33	16.56	30	PASS
	2437	MIMO	14.33	13.71	17.04	30	PASS
	2452	MIMO	14.30	13.85	17.09	30	PASS

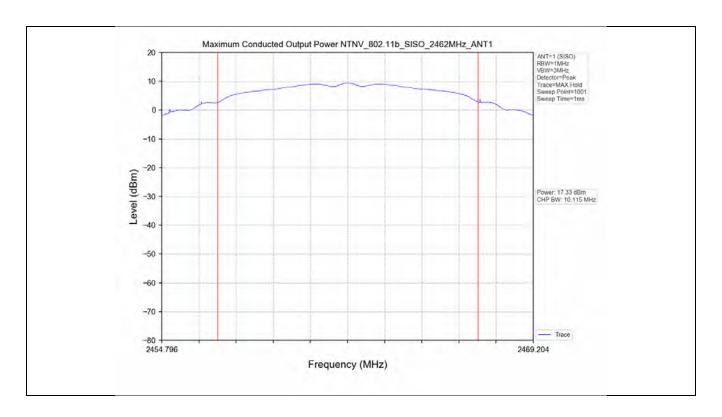
3.2 Test Graph

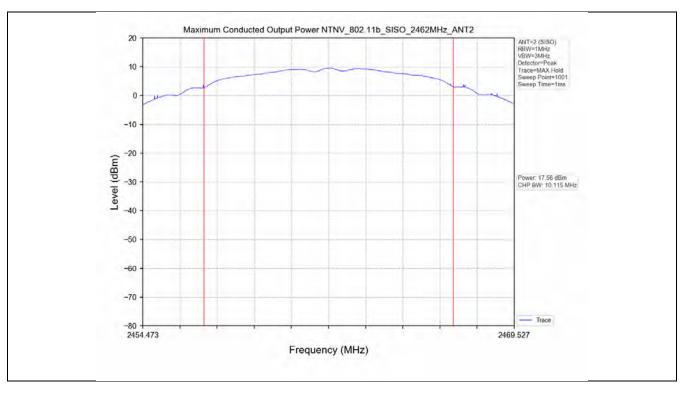


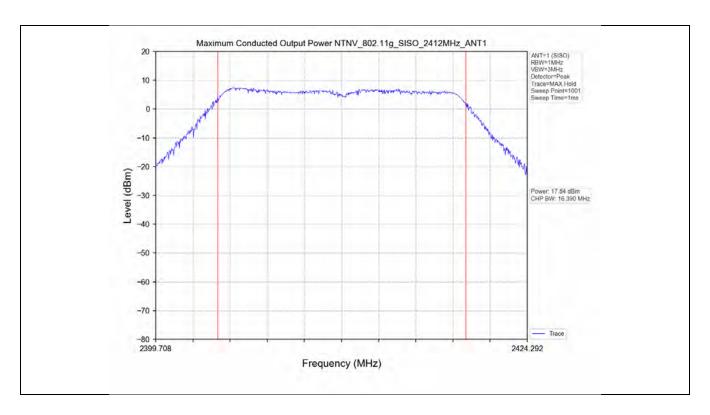


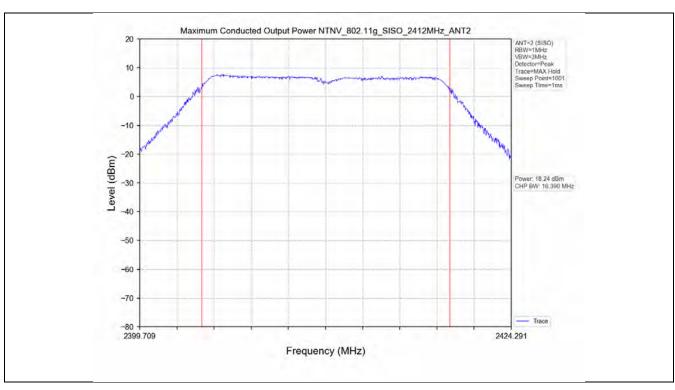


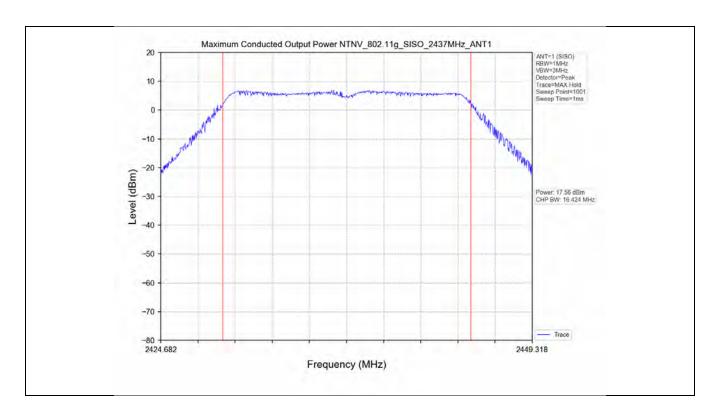


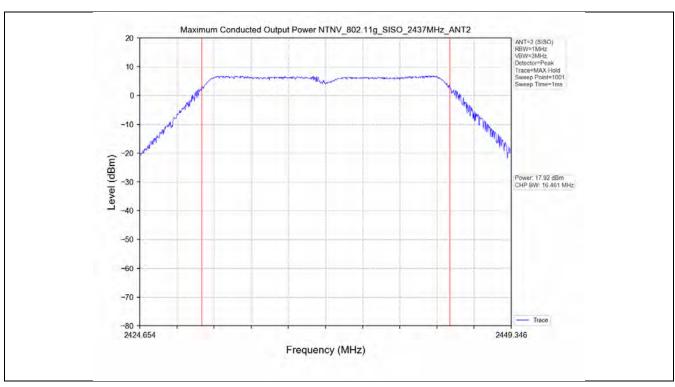


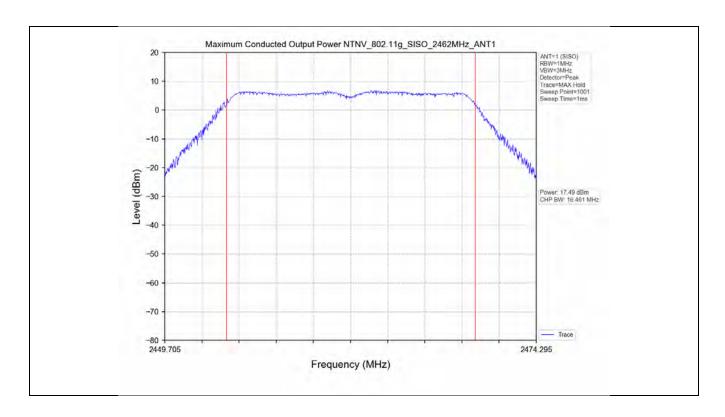


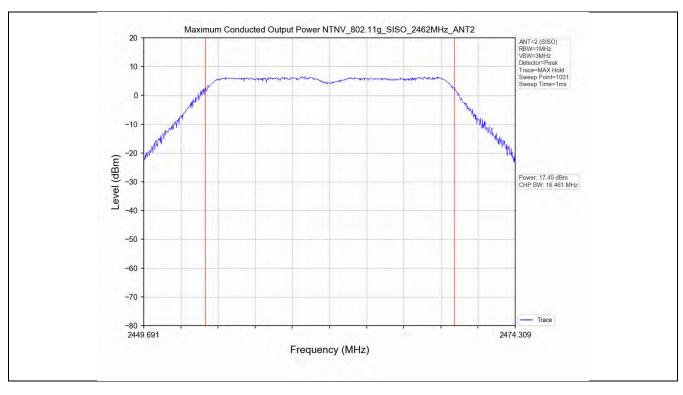


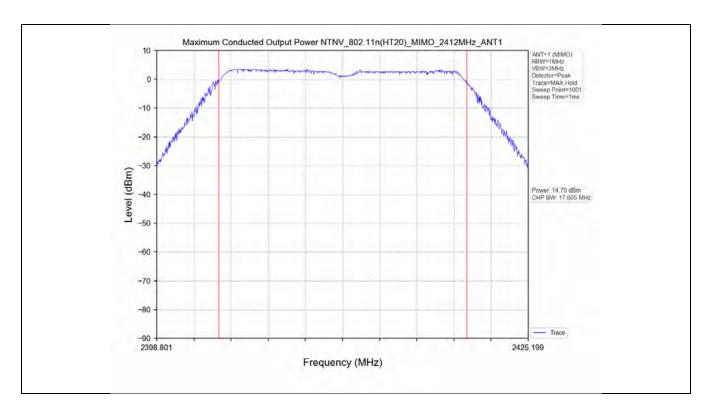


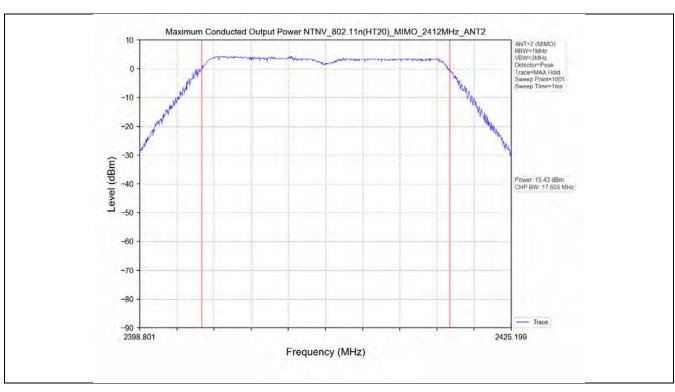


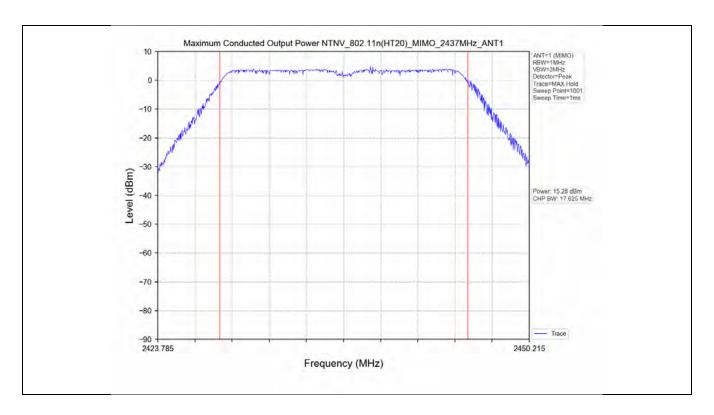


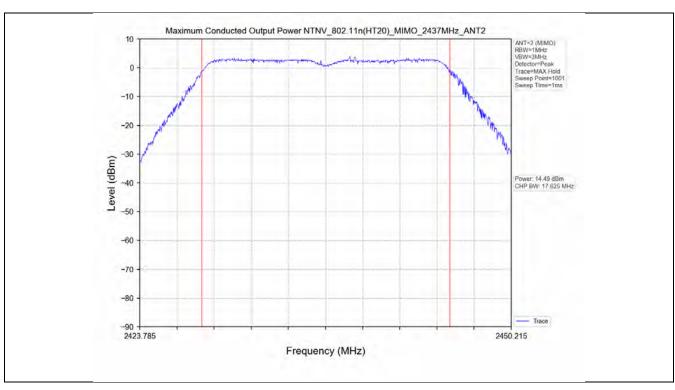


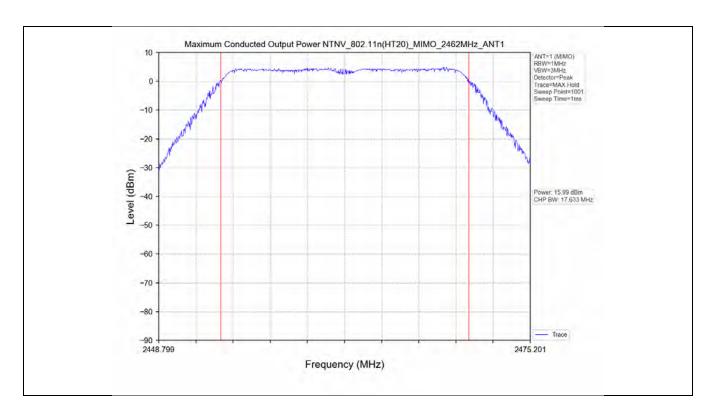


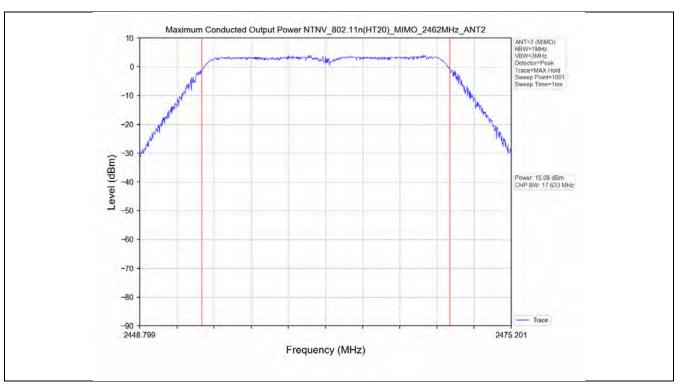


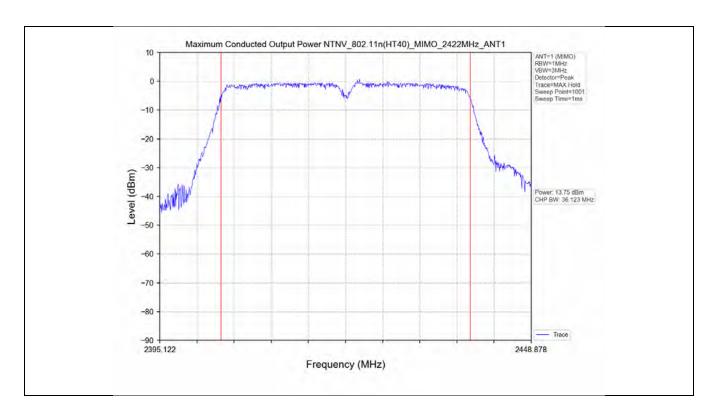


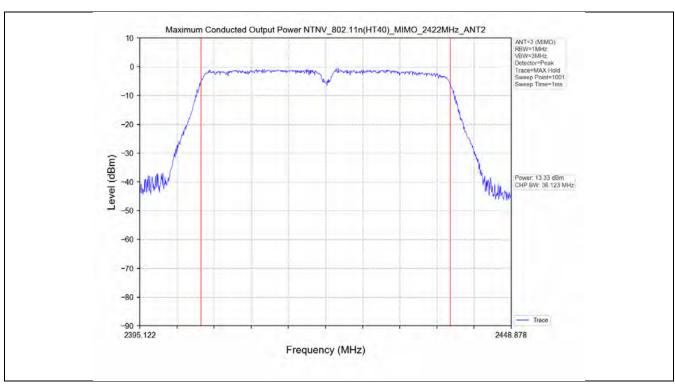


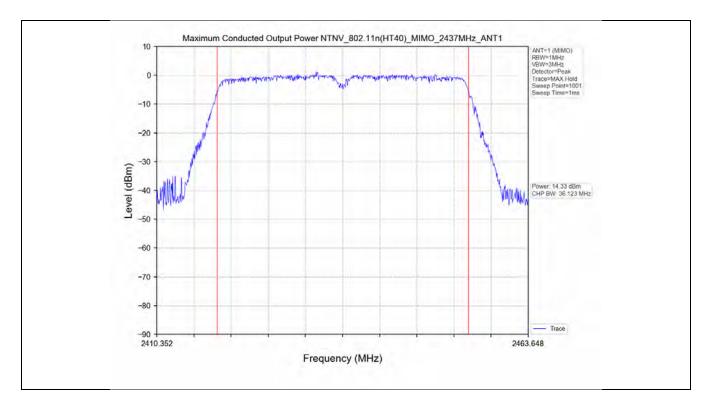


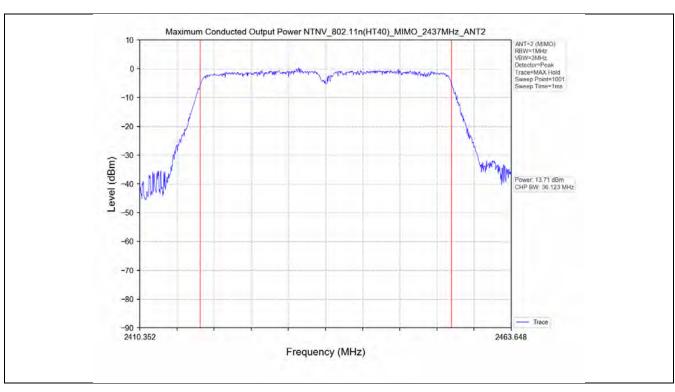


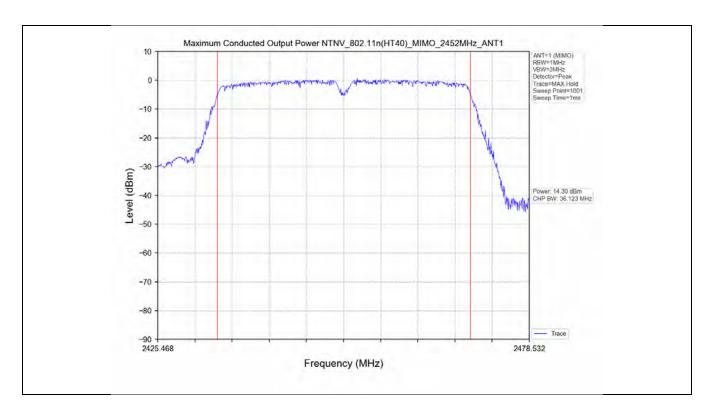


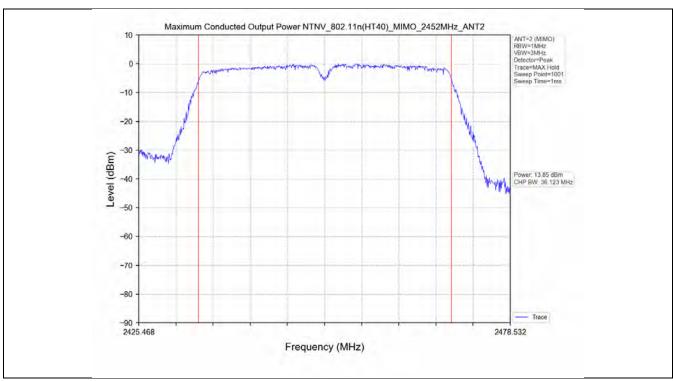










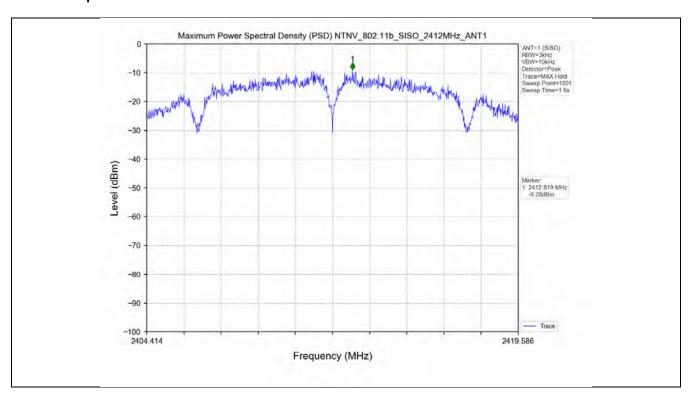


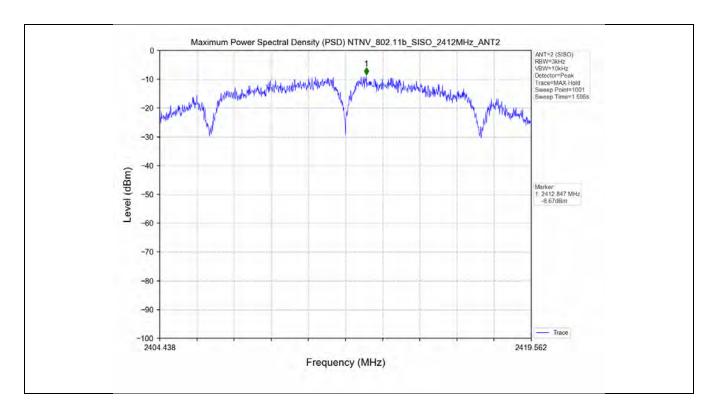
4. Maximum Power Spectral Density (PSD)

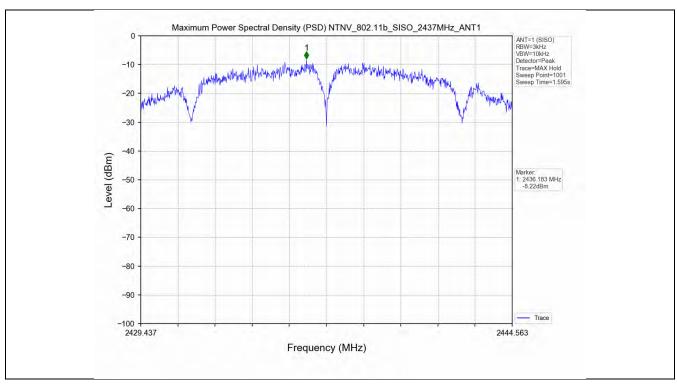
4.1 Test Result

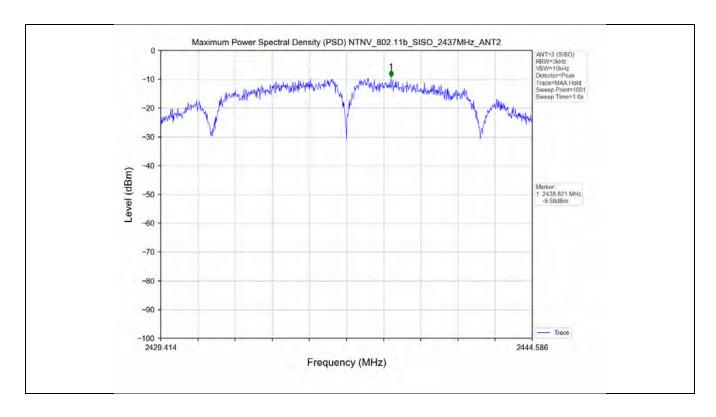
Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total	(ubili/ski iz)	
802.11b	2412	SISO	-9.28	-8.67	/	≤8	PASS
	2437	SISO	-8.22	-9.58	/	≤8	PASS
	2462	SISO	-8.81	-8.32	/	≤8	PASS
802.11g	2412	SISO	-12.30	-12.14	/	≤8	PASS
	2437	SISO	-15.83	-14.94	/	≤8	PASS
	2462	SISO	-15.01	-14.64	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-17.02	-16.93	-13.96	≤8	PASS
	2437	MIMO	-17.59	-18.89	-15.61	≤8	PASS
	2462	MIMO	-16.61	-18.02	-14.25	≤8	PASS
802.11n(HT40)	2422	MIMO	-22.88	-23.07	-20.11	≤8	PASS
	2437	MIMO	-20.96	-21.79	-19.07	≤8	PASS
	2452	MIMO	-21.01	-21.30	-18.14	≤8	PASS

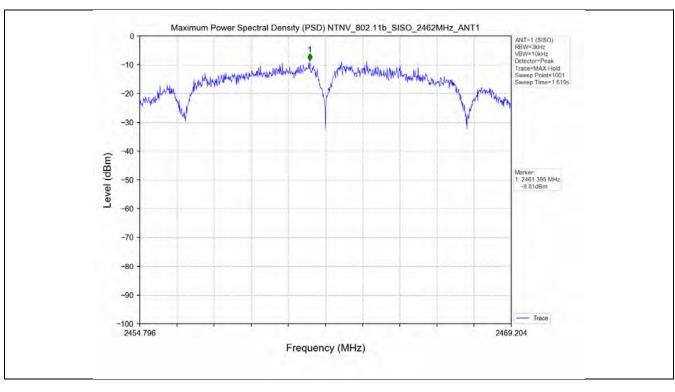
4.2 Test Graph

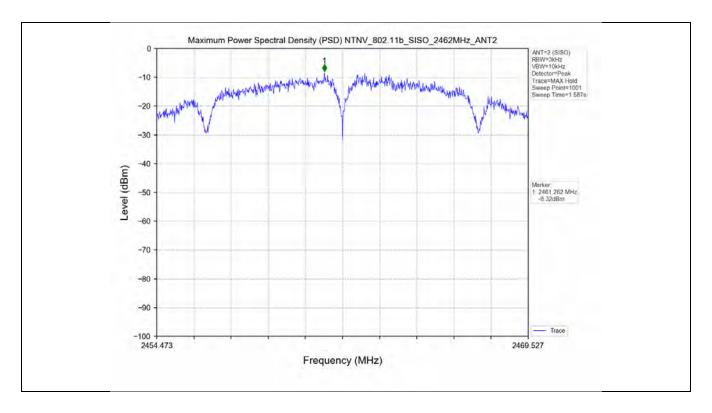


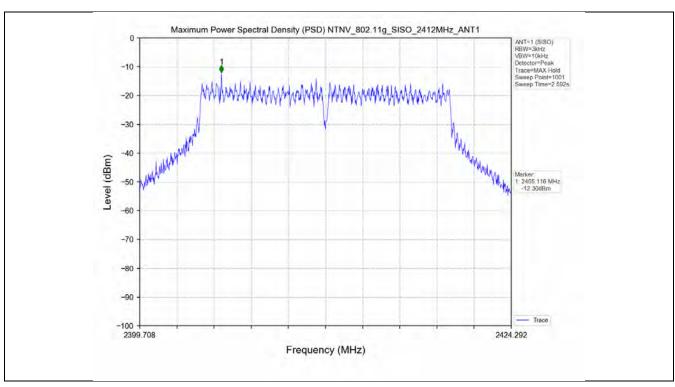


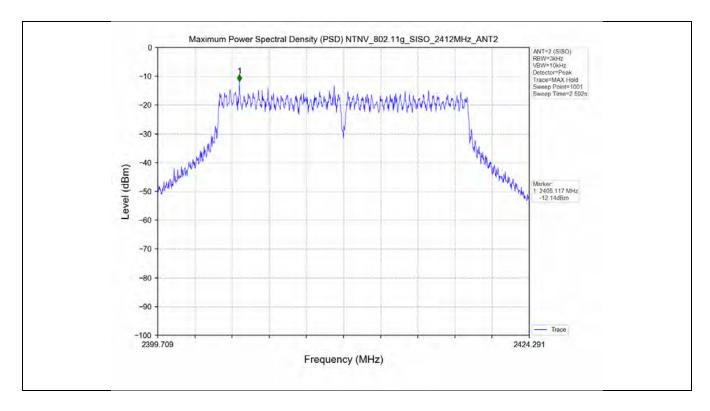


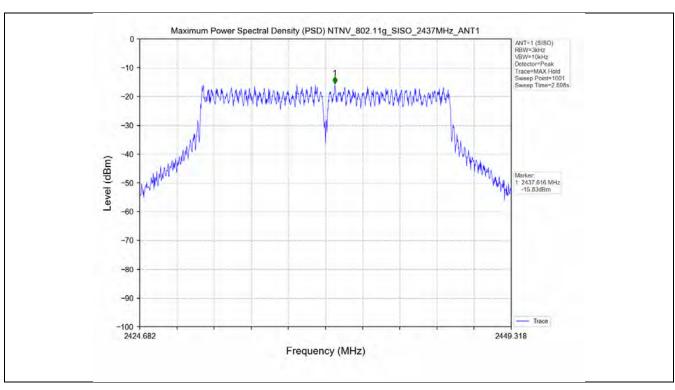


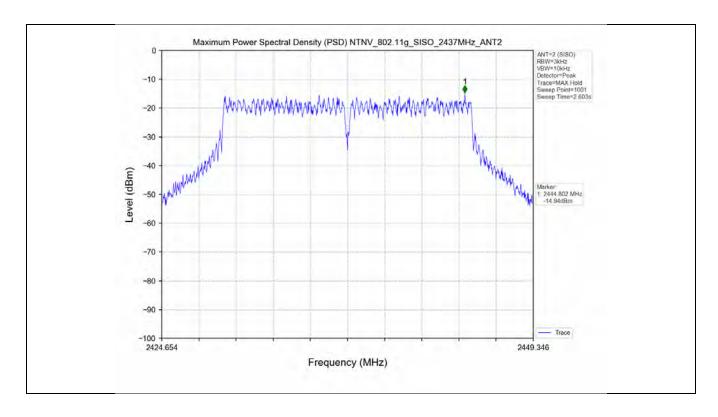


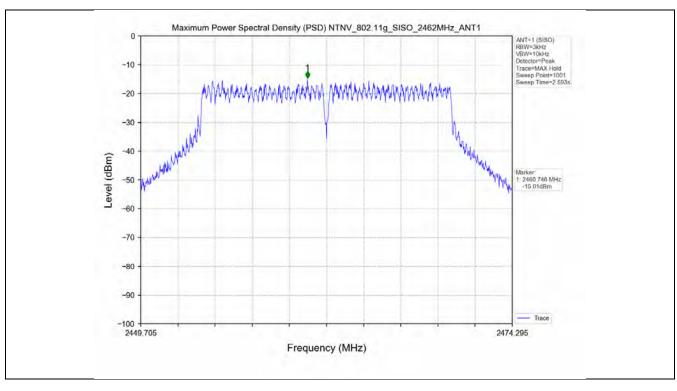


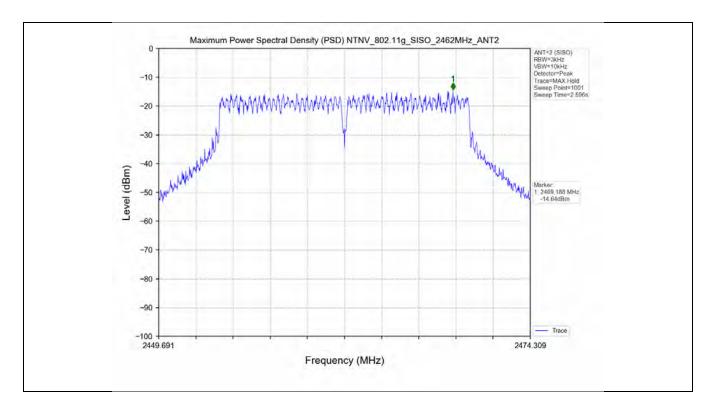


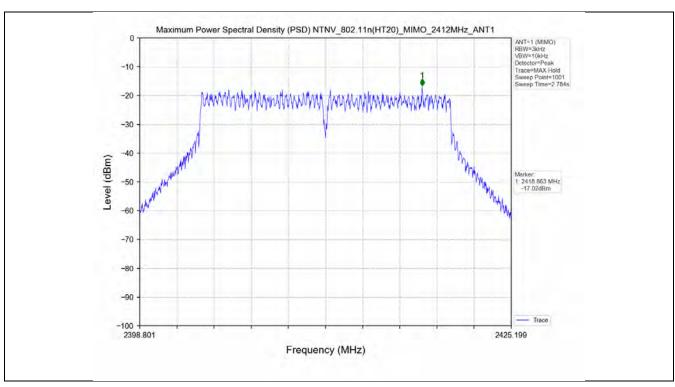


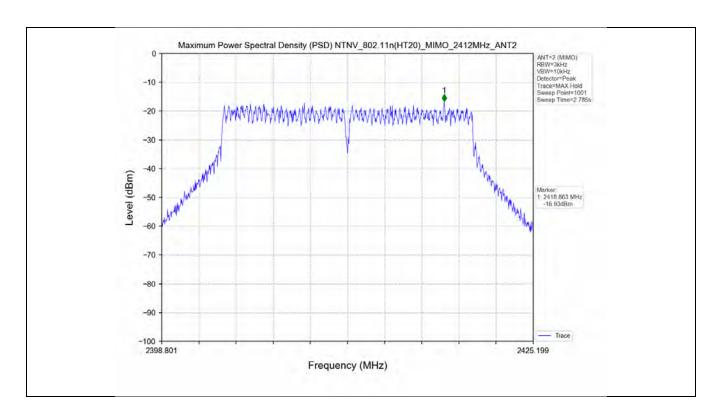


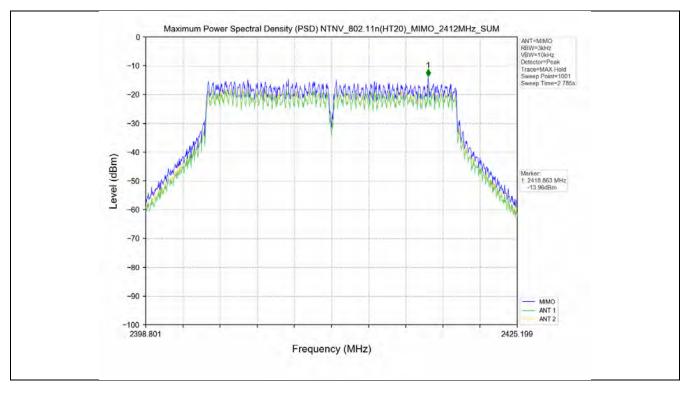


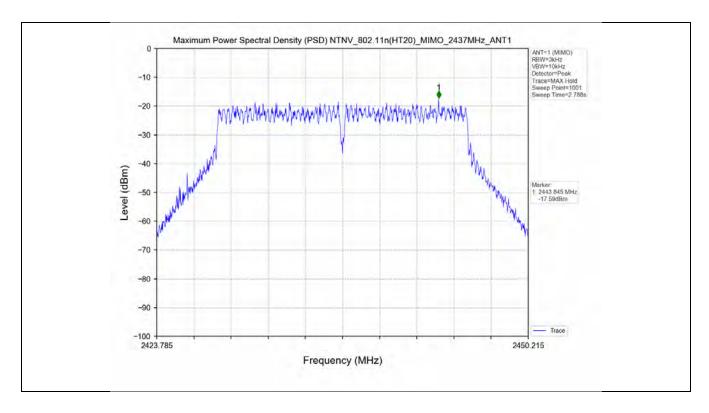


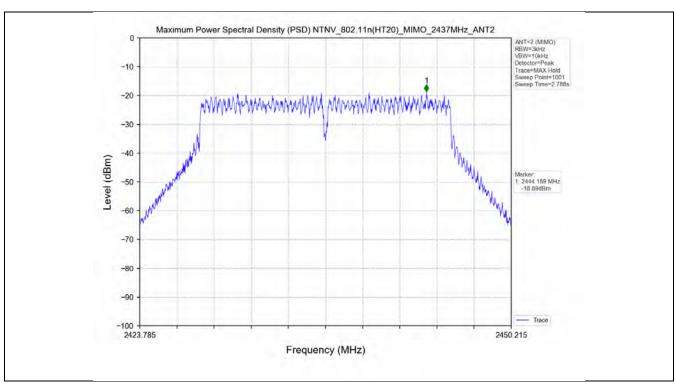


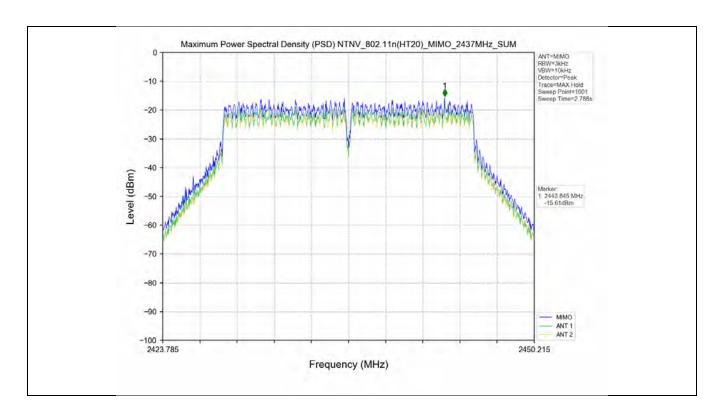


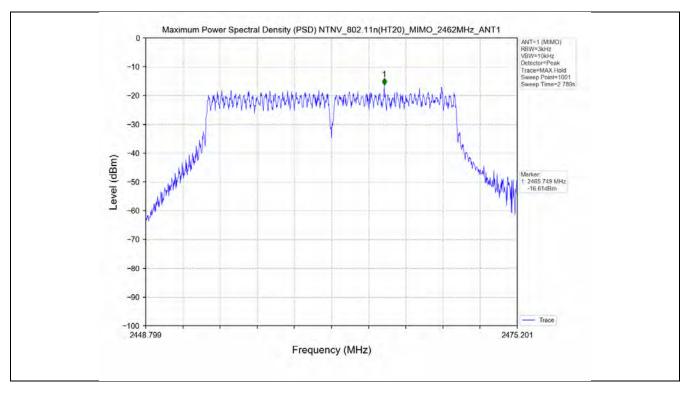


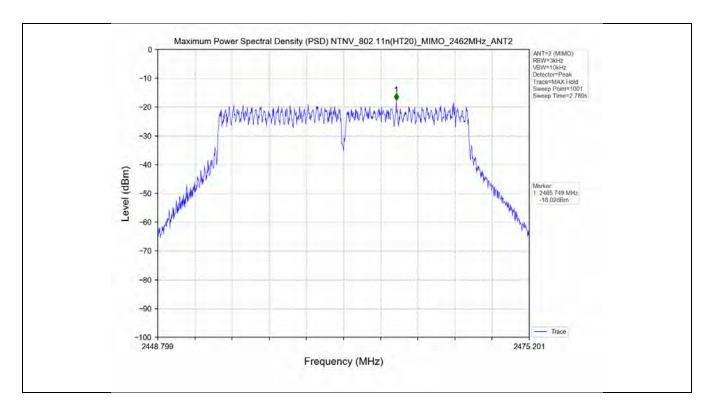


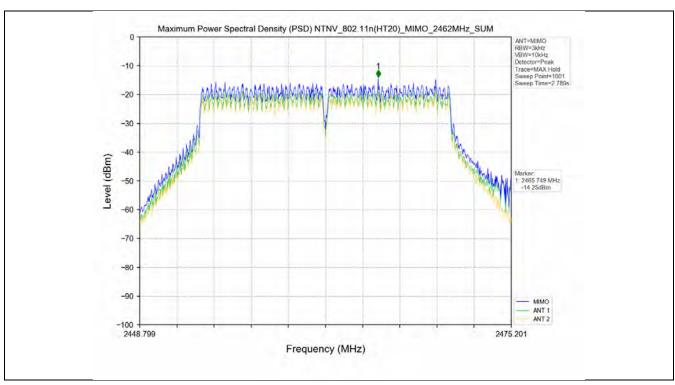


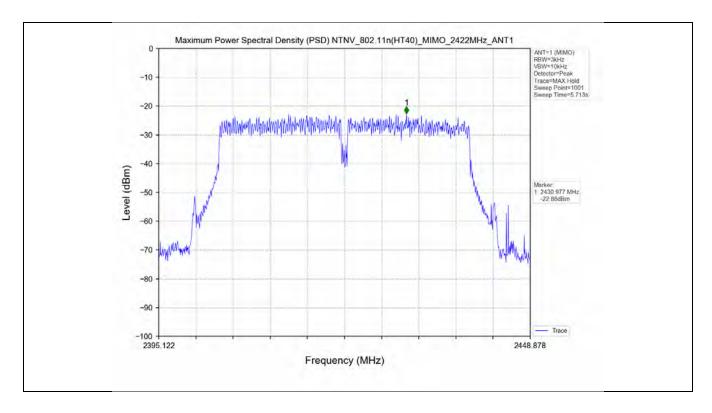


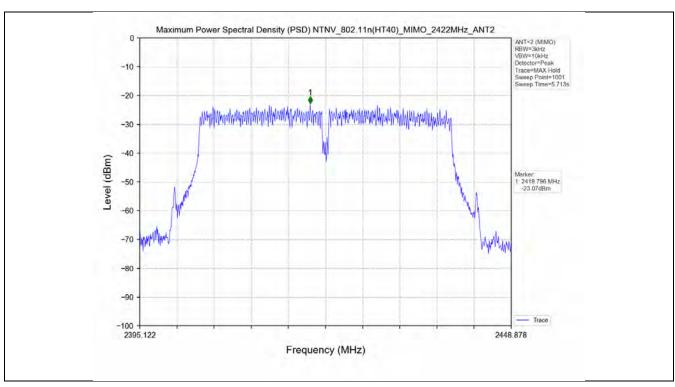


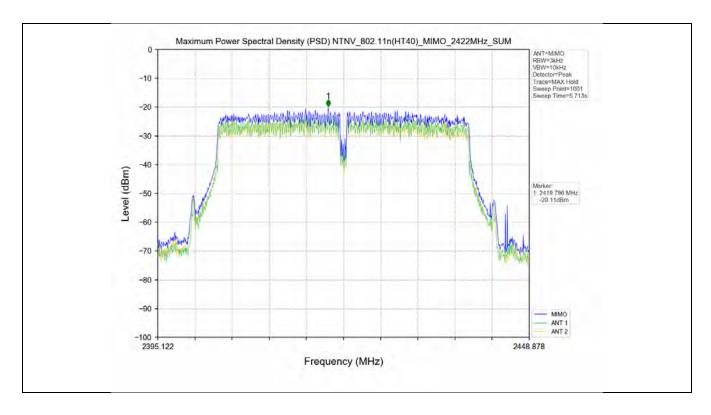


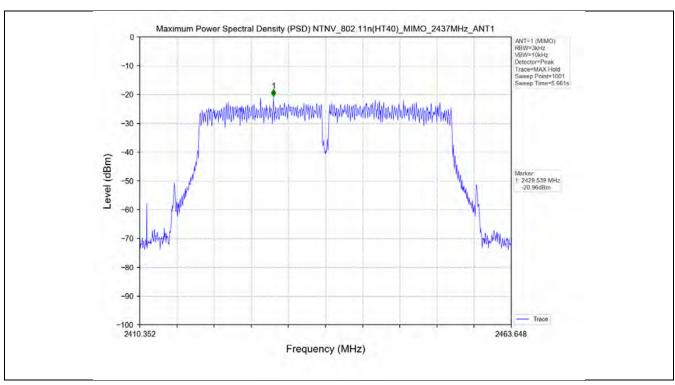


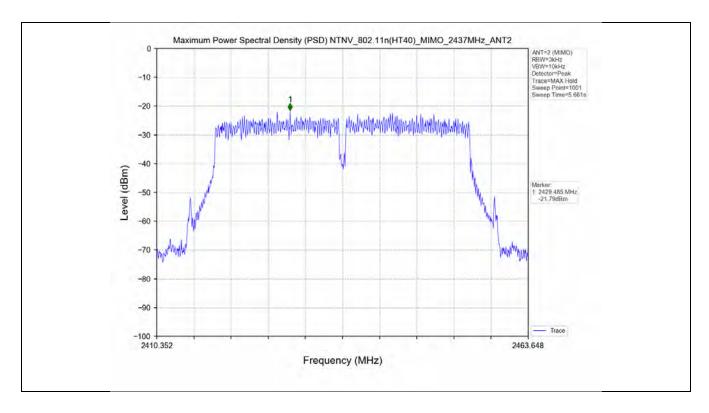


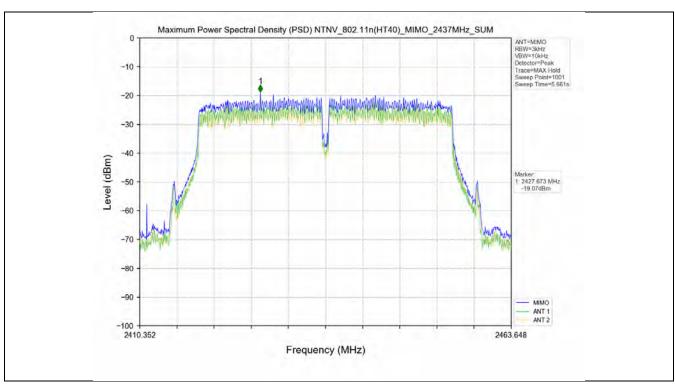


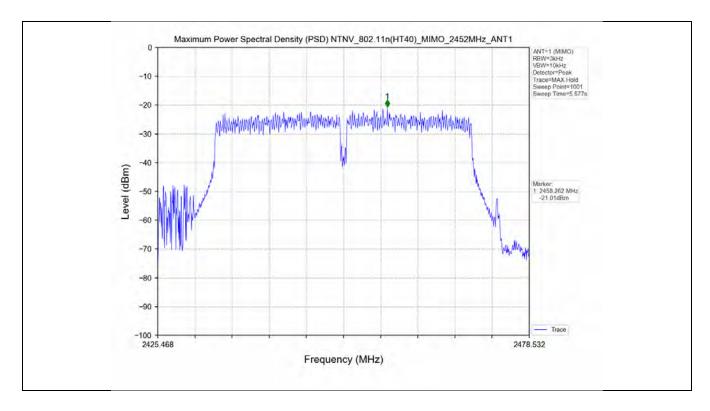


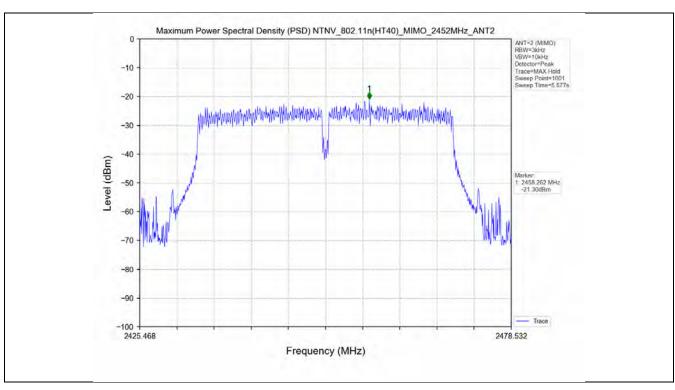


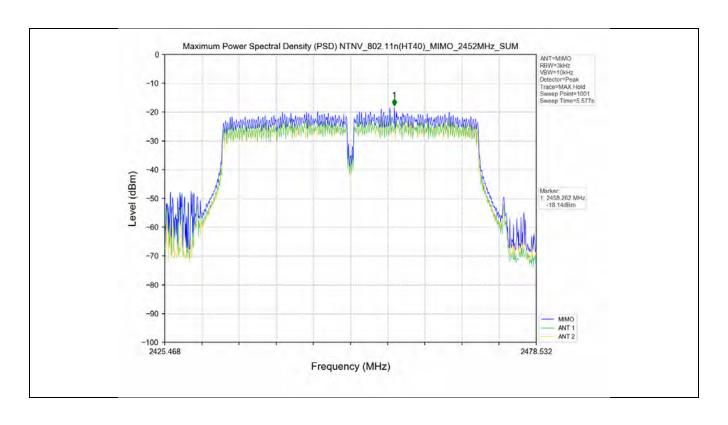












5. Unwanted Emissions in Non-restricted Frequency Bands

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	-10.46	PASS
			2	Refer to test graph	-10.46	PASS
	2437	SISO	1	Refer to test graph	-10.46	PASS
			2	Refer to test graph	-10.46	PASS
	2462	SISO	1	Refer to test graph	-10.46	PASS
			2	Refer to test graph	-10.46	PASS
802.11g	2412	SISO	1	Refer to test graph	-16.73	PASS
			2	Refer to test graph	-16.73	PASS
	2437	SISO	1	Refer to test graph	-16.73	PASS
			2	Refer to test graph	-16.73	PASS
	2462	SISO	1	Refer to test graph	-16.73	PASS
			2	Refer to test graph	-16.73	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-17.21	PASS
			2	Refer to test graph	-17.21	PASS
	2437	MIMO	1	Refer to test graph	-17.21	PASS
			2	Refer to test graph	-17.21	PASS
	2462	MIMO	1	Refer to test graph	-17.21	PASS
			2	Refer to test graph	-17.21	PASS
802.11n(HT40)	2422	MIMO	1	Refer to test graph	-19.97	PASS
			2	Refer to test graph	-19.97	PASS
	2437	MIMO	1	Refer to test graph	-19.97	PASS
			2	Refer to test graph	-19.97	PASS
	2452	MIMO	1	Refer to test graph	-19.97	PASS
			2	Refer to test graph	-19.97	PASS

5.2 Test Graph

