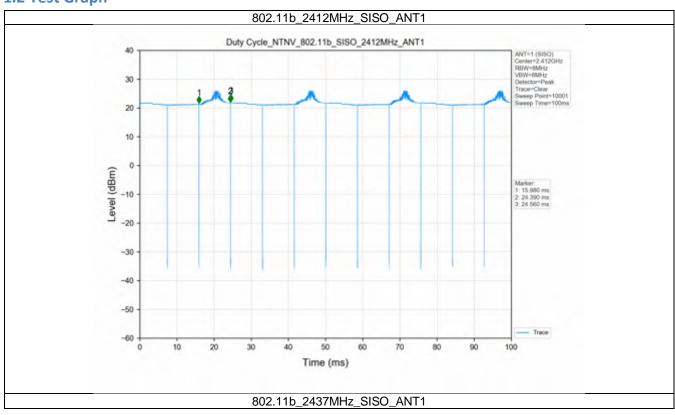
Appendix A for SHEM200100016901

1. Duty Cycle

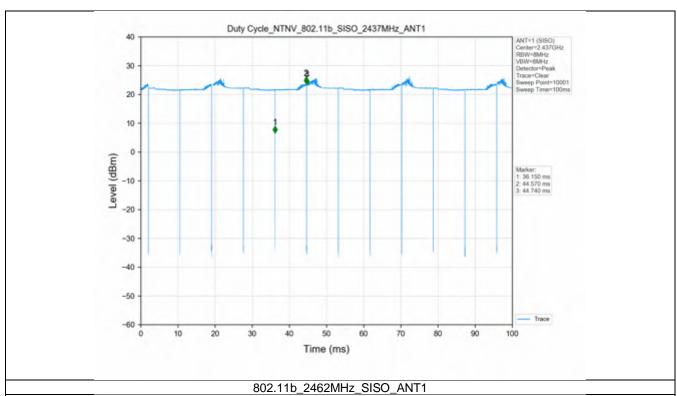
1.1 Test Result

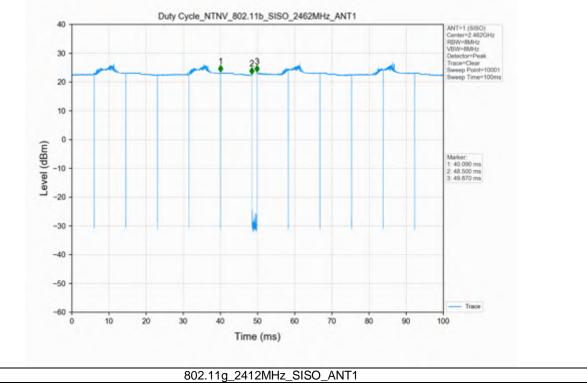
Test Mode	Channel Frequency(MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2412	SISO	1	8.410	8.580	98.02	0.09
802.11b	2437	SISO	1	8.420	8.590	98.02	0.09
	2462	SISO	1	8.410	9.780	85.99	0.66
	2412	SISO	1	1.366	1.533	89.11	0.50
802.11g	2437	SISO	1	1.367	1.533	89.17	0.50
	2462	SISO	1	1.365	2.306	59.19	2.28
	2412	SISO	1	1.308	1.452	90.08	0.45
802.11n(HT20)	2437	SISO	1	1.308	1.460	89.59	0.48
	2462	SISO	1	1.309	1.461	89.60	0.48
802.11n(HT40)	2422	SISO	1	0.648	0.819	79.12	1.02
	2437	SISO	1	0.648	0.765	84.71	0.72
	2452	SISO	1	0.648	0.819	79.12	1.02

1.2 Test Graph

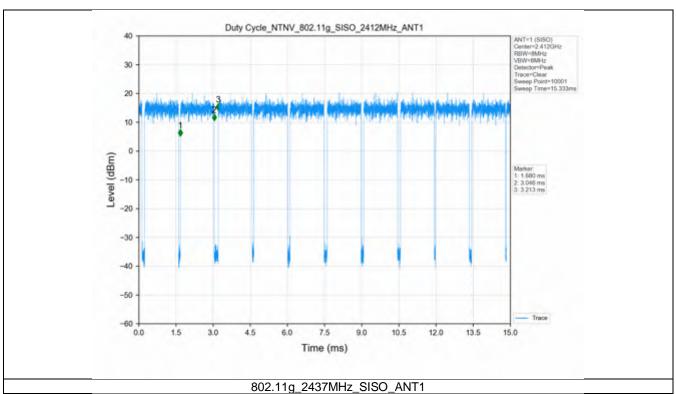


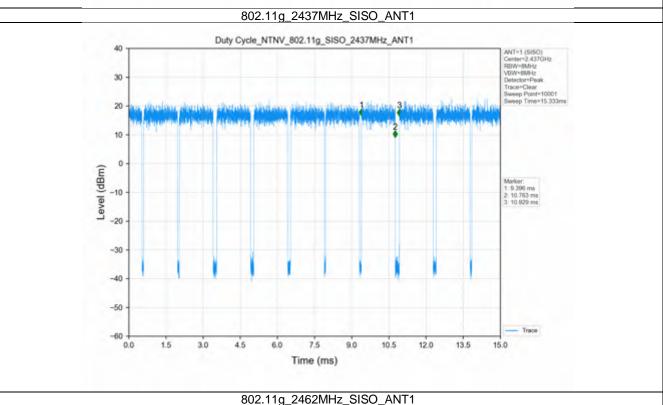




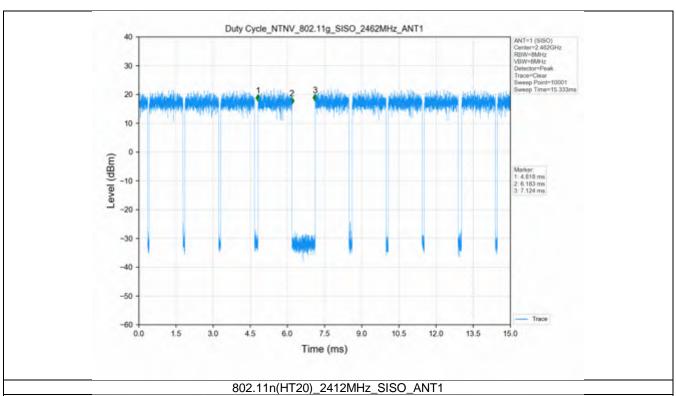


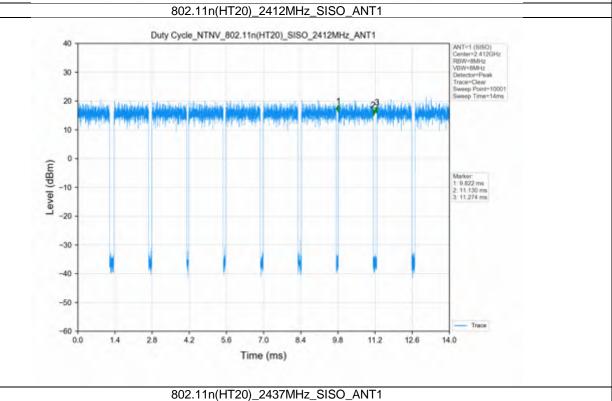




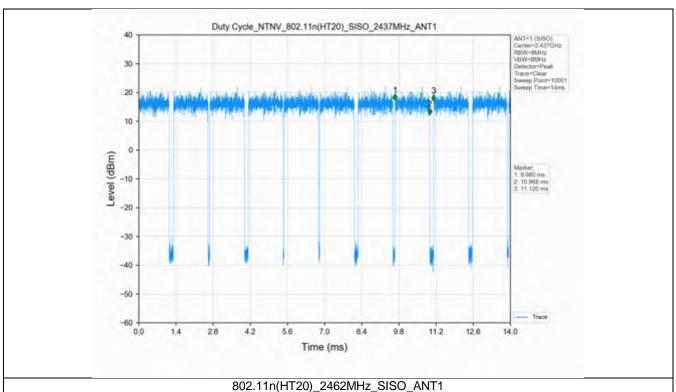


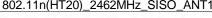


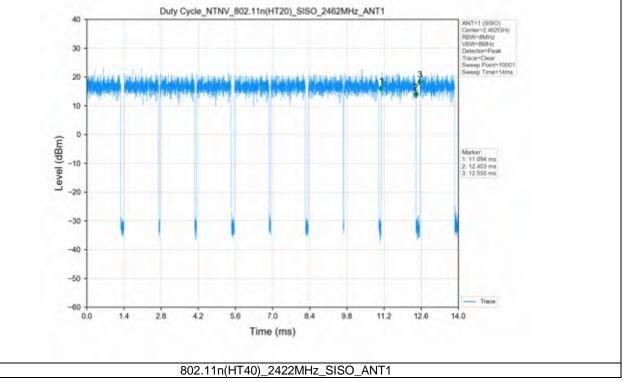




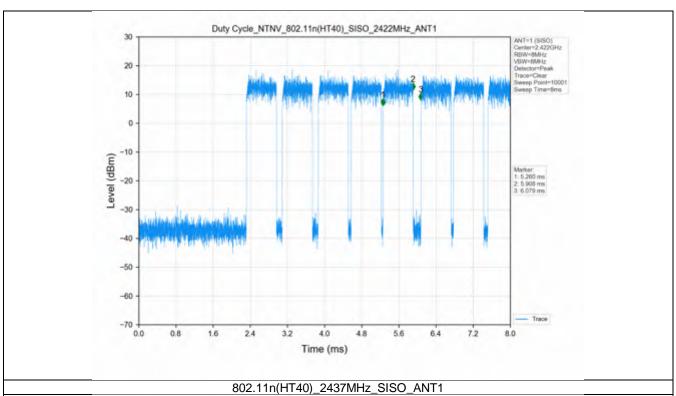


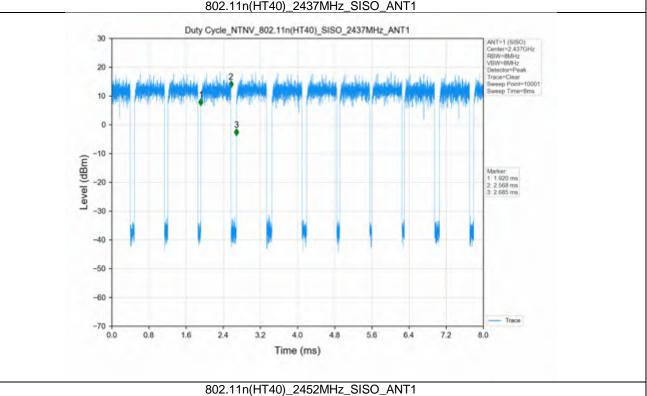


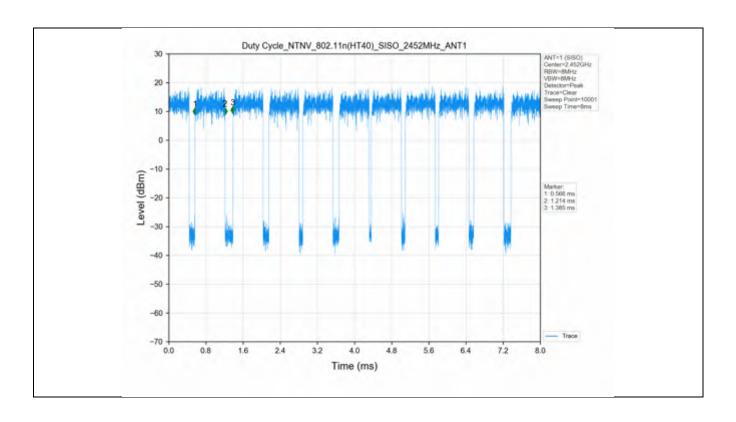












2. Bandwidth

2.1 Test Result

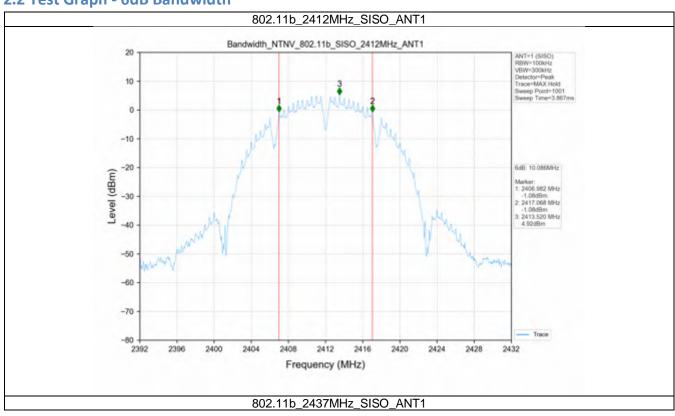
Test Mode	Frequency	TV Type	ANT No.	6dB Ba	Verdict	
rest ivioue	(MHz)	TX Type	AINT NO.	Test Result (MHz)	Limits (MHz)	verdict
	2412	SISO	1	10.086	≥0.5	PASS
802.11b	2437	SISO	1	9.576	≥0.5	PASS
	2462	SISO	1	10.050	≥0.5	PASS
	2412	SISO	1	16.385	≥0.5	PASS
802.11g	2437	SISO	1	16.354	≥0.5	PASS
	2462	SISO	1	16.366	≥0.5	PASS
	2412	SISO	1	17.197	≥0.5	PASS
802.11n(HT20)	2437	SISO	1	17.559	≥0.5	PASS
	2462	SISO	1	17.588	≥0.5	PASS
	2422	SISO	1	35.199	≥0.5	PASS
802.11n(HT40)	2437	SISO	1	35.224	≥0.5	PASS
, ,	2452	SISO	1	35.218	≥0.5	PASS

Test Mode	Frequency	TX Type	ANT No.	99% Occupied Bandwidth		
i est iviode	(MHz)		AINT INO.	Test Res	sult (MHz)	
802.11b	2412	SISO	1	14.912	Only for Report Use	
	2437	SISO	1	14.898	Only for Report Use	
	2462	SISO	1	14.903	Only for Report Use	
	2412	SISO	1	16.876	Only for Report Use	
802.11g	2437	SISO	1	16.825	Only for Report Use	
	2462	SISO	1	16.794	Only for Report Use	

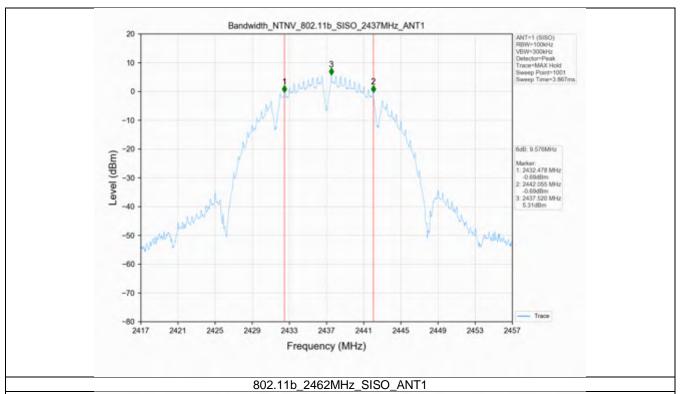


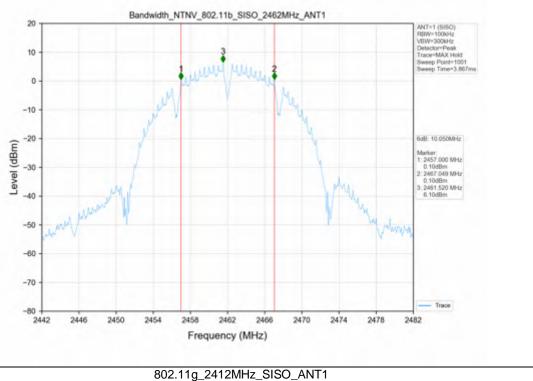
802.11n(HT20)	2412	SISO	1	17.871	Only for Report Use
	2437	SISO	1	17.815	Only for Report Use
	2462	SISO	1	17.775	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.135	Only for Report Use
	2437	SISO	1	36.034	Only for Report Use
	2452	SISO	1	36.070	Only for Report Use

2.2 Test Graph - 6dB Bandwidth

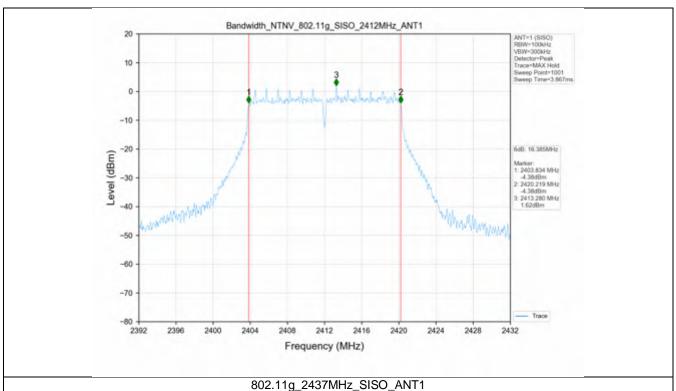




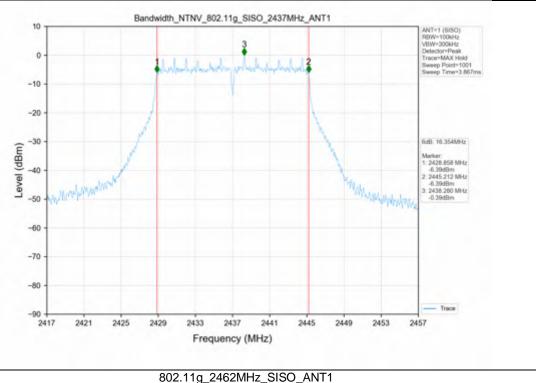




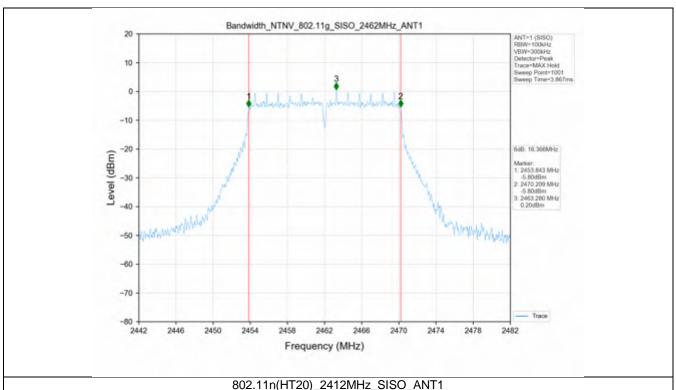


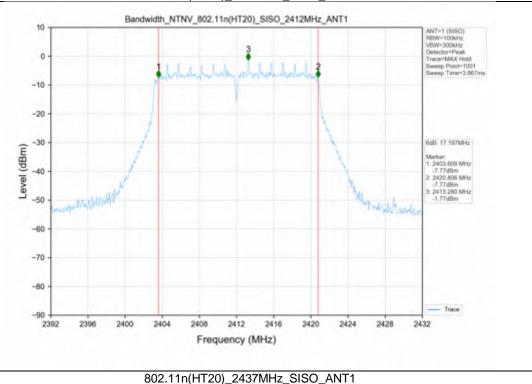




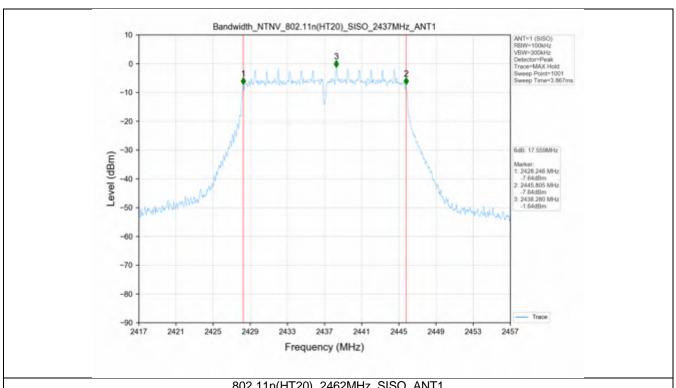




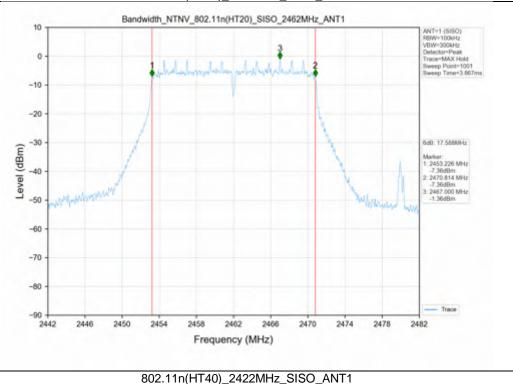




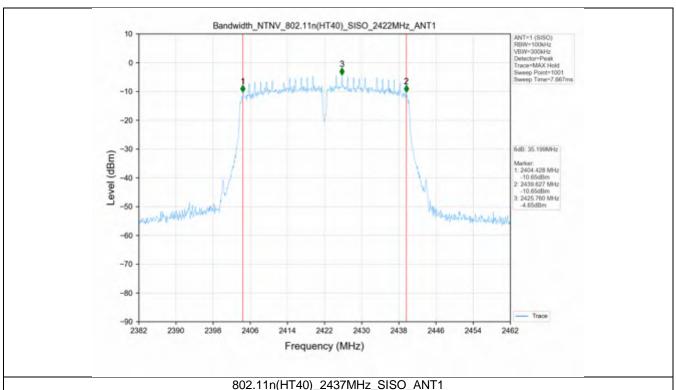


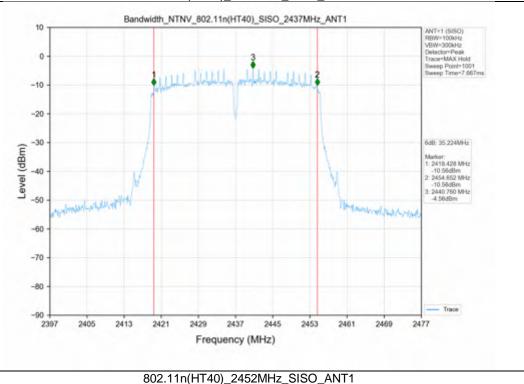


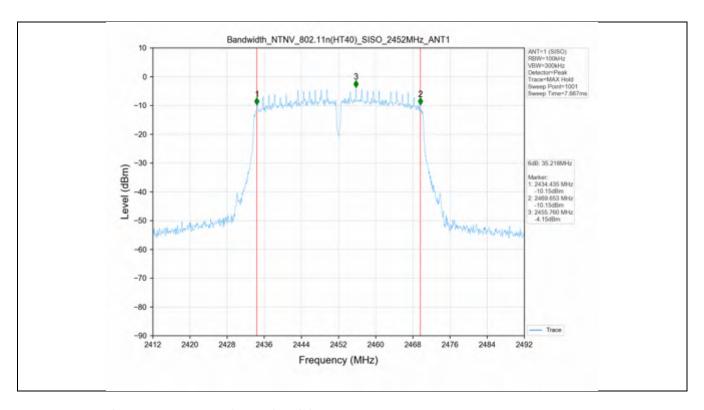
802.11n(HT20) 2462MHz SISO ANT1



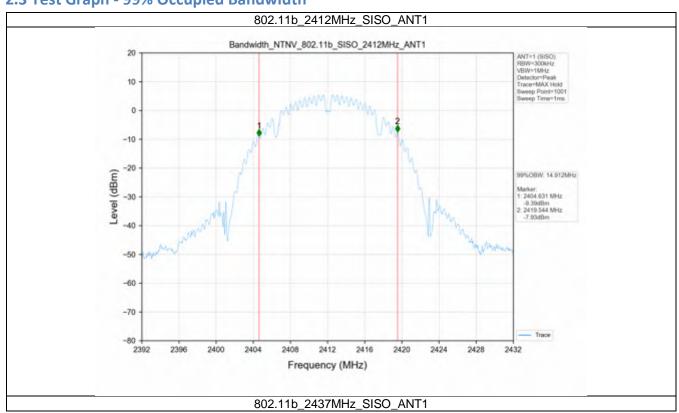




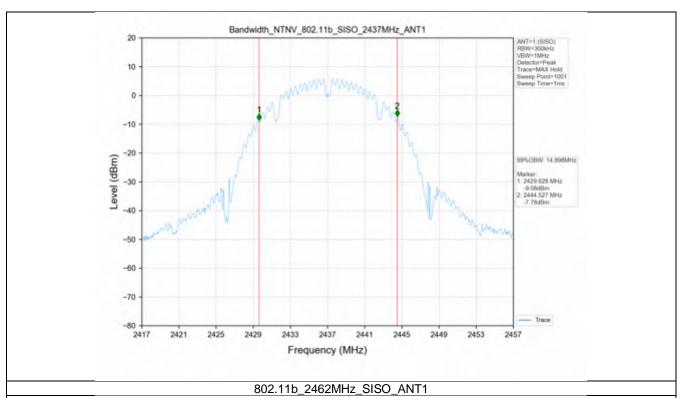


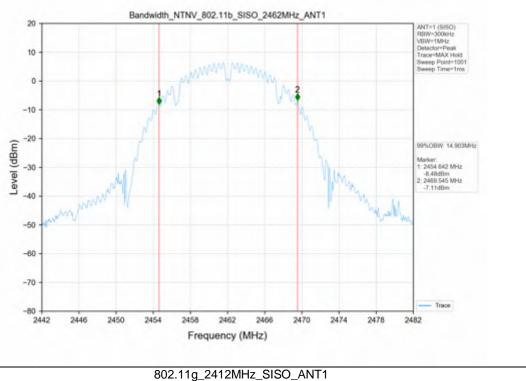


2.3 Test Graph - 99% Occupied Bandwidth

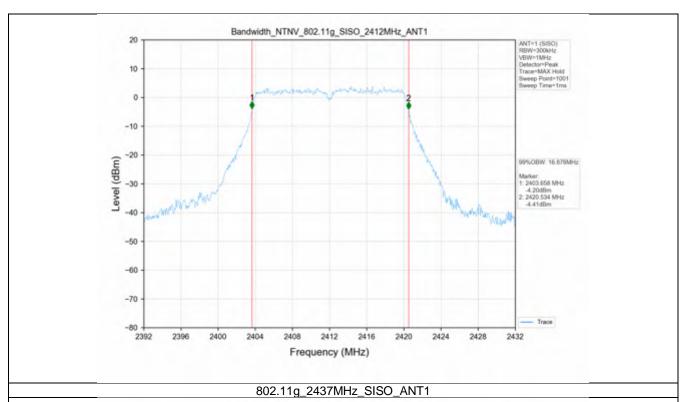


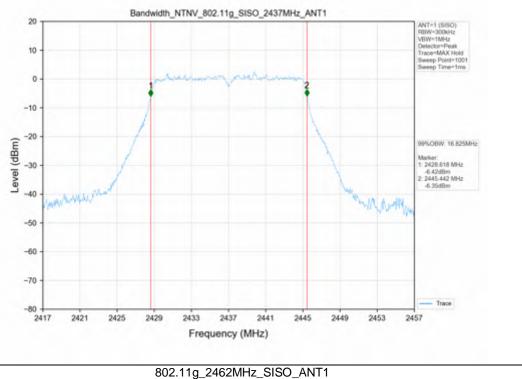




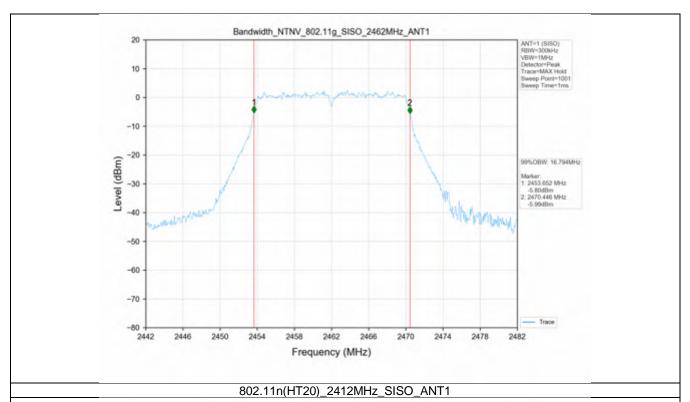


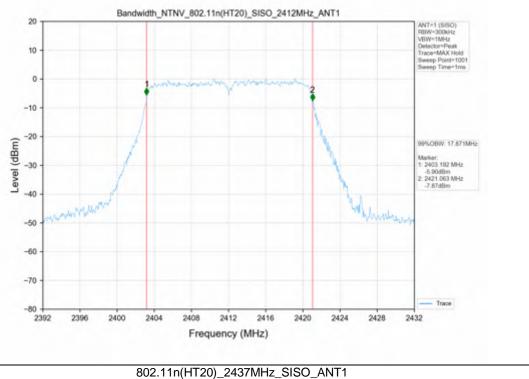




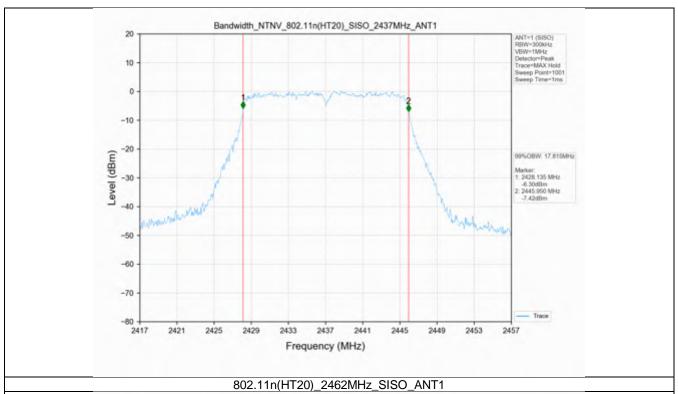


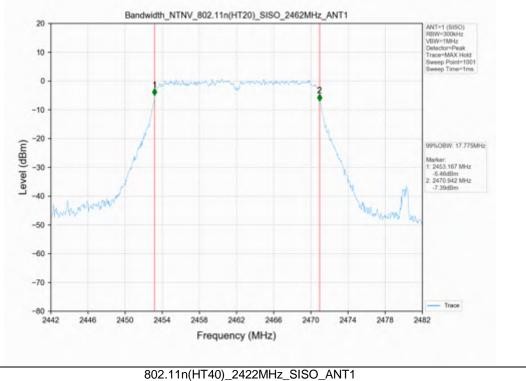




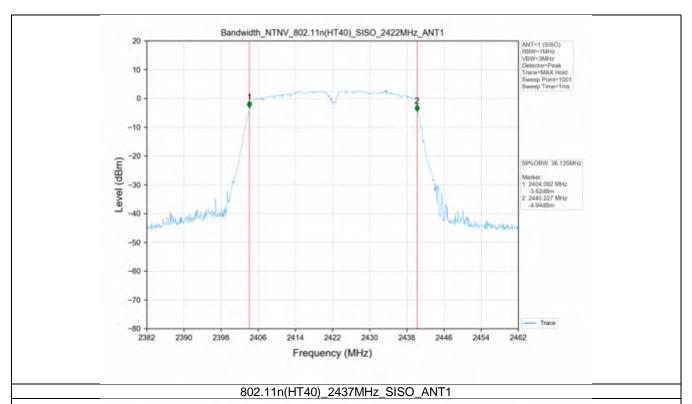


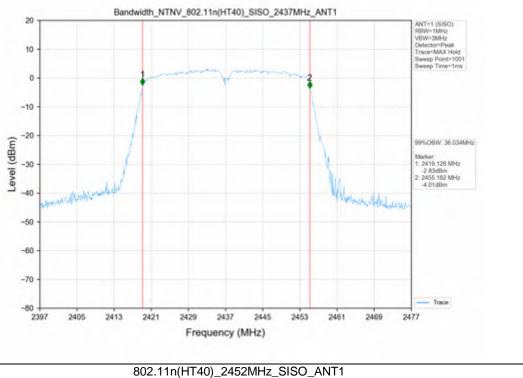


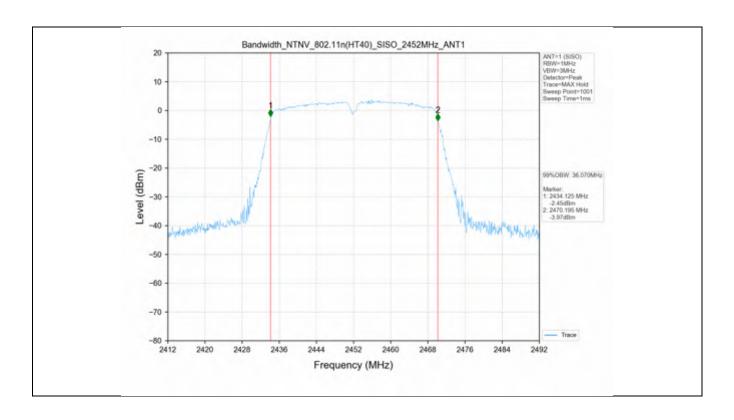












3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2412	SISO	17.42	30	PASS
802.11b	2437	SISO	17.83	30	PASS
	2462	SISO	18.68	30	PASS
	2412	SISO	12.74	30	PASS
802.11g	2437	SISO	14.69	30	PASS
	2462	SISO	15.34	30	PASS
	2412	SISO	14.17	30	PASS
802.11n(HT20)	2437	SISO	14.58	30	PASS
	2462	SISO	15.28	30	PASS
	2422	SISO	13.95	30	PASS
802.11n(HT40)	2437	SISO	14.20	30	PASS
	2452	SISO	14.57	30	PASS

34. Maximum Power Spectral Density (PSD)

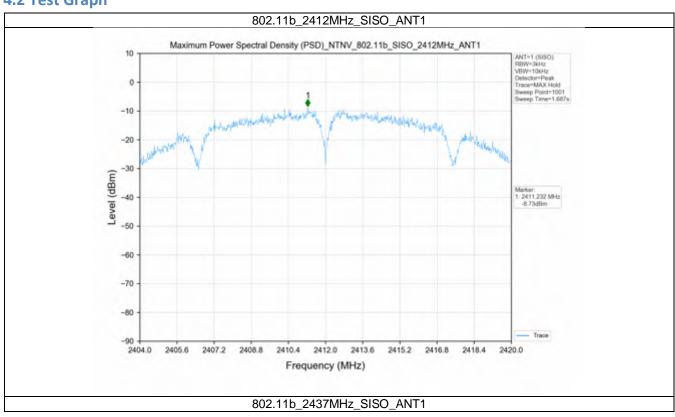
4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		

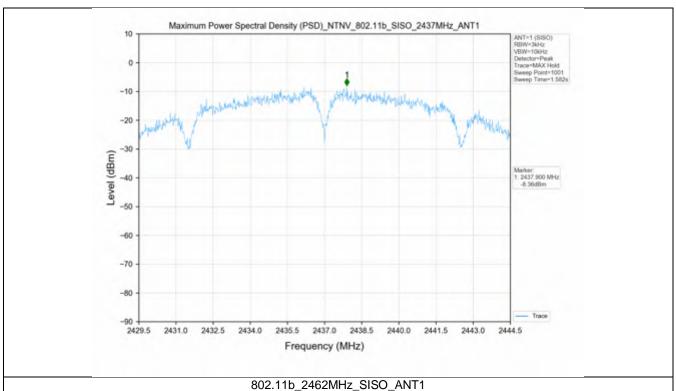


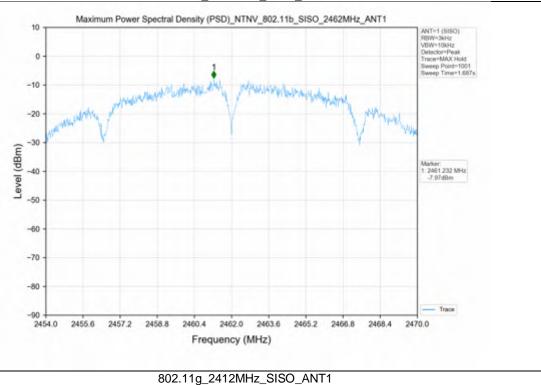
	2412	SISO	-8.73	≤8	PASS
802.11b	2437	SISO	-8.36	≤8	PASS
	2462	SISO	-7.97	≤8	PASS
	2412	SISO	-12.79	≤8	PASS
802.11g	2437	SISO	-15.13	≤8	PASS
	2462	SISO	-13.40	≤8	PASS
	2412	SISO	-16.61	≤8	PASS
802.11n(HT20)	2437	SISO	-15.78	≤8	PASS
	2462	SISO	-14.25	≤8	PASS
802.11n(HT40)	2422	SISO	-18.59	≤8	PASS
	2437	SISO	-18.43	≤8	PASS
	2452	SISO	-18.39	≤8	PASS

4.2 Test Graph

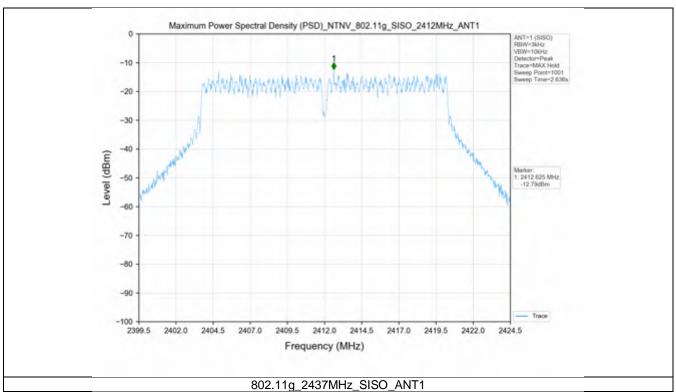


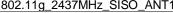


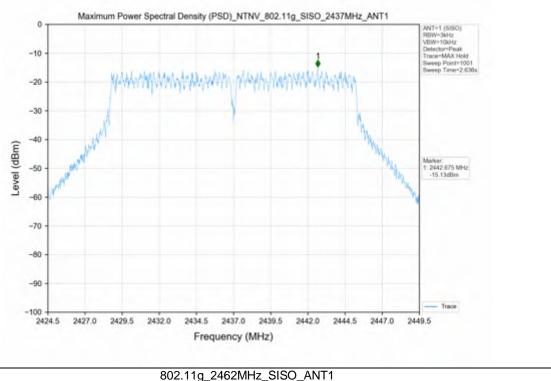




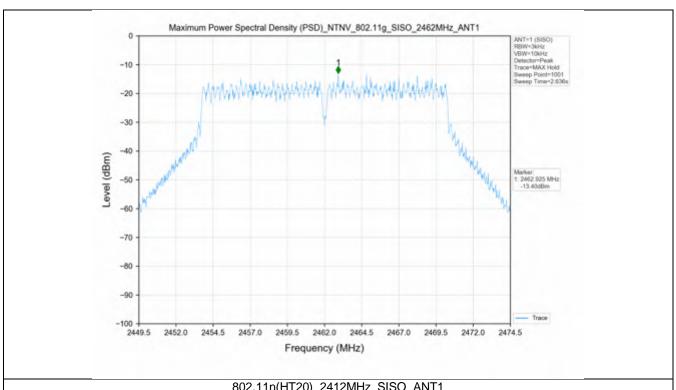


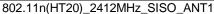


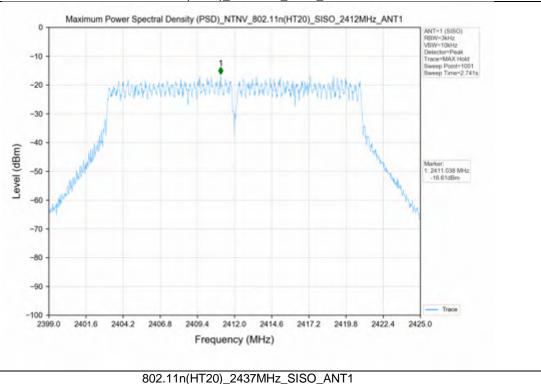




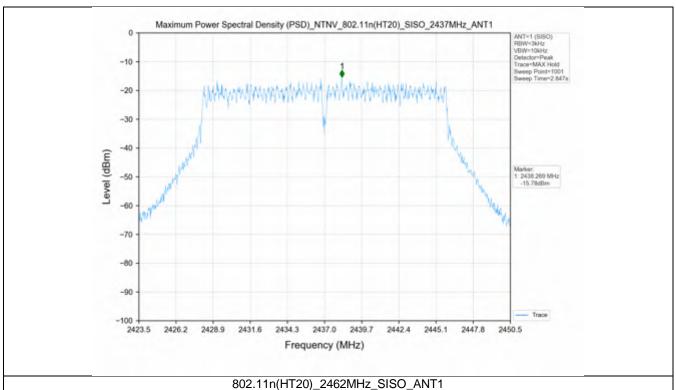




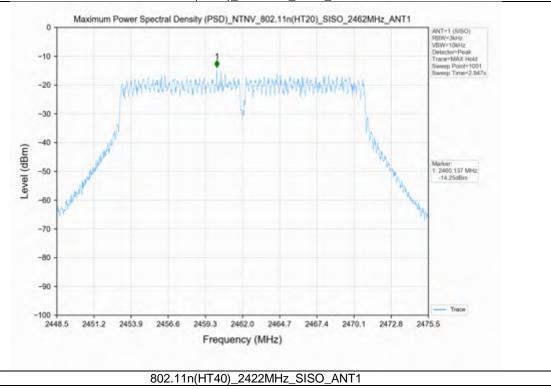




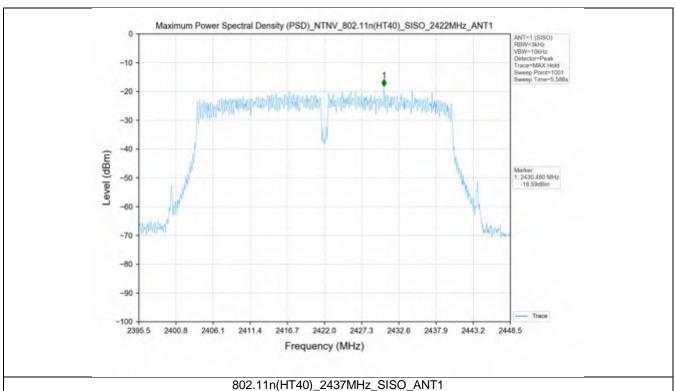


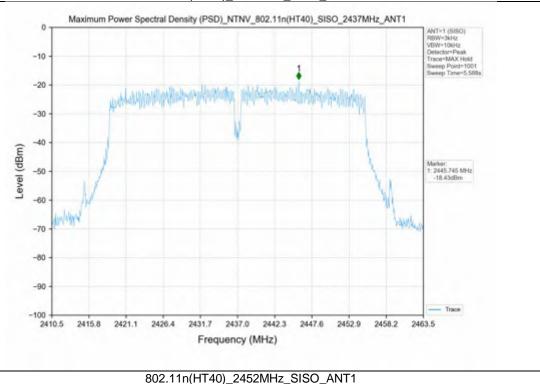




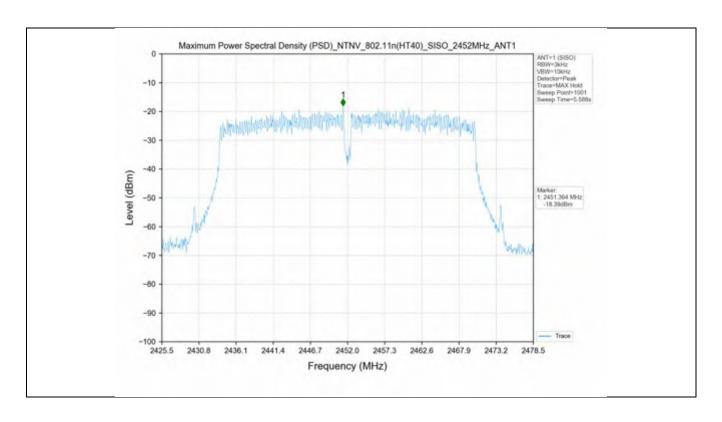












5. Unwanted Emissions in Non-restricted Frequency Bands

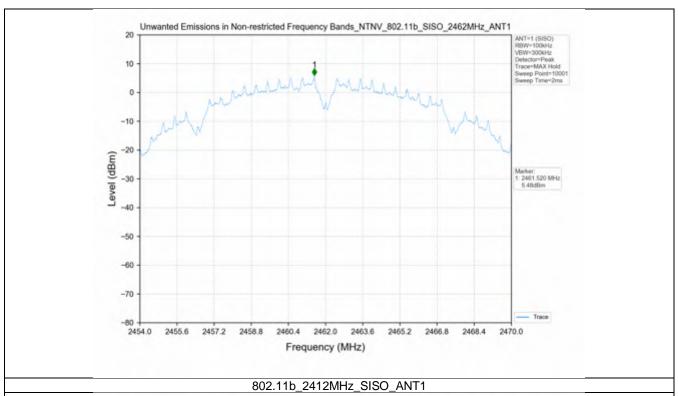
5.1 Test Result

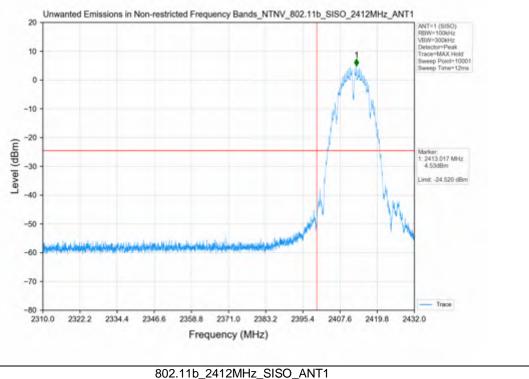
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2412	SISO	1	Refer to test graph	-24.52	recalc
802.11b	2437	SISO	1	Refer to test graph	-24.52	recalc
	2462	SISO	1	Refer to test graph	-24.52	recalc
	2412	SISO	1	Refer to test graph	-26.97	recalc
802.11g	2437	SISO	1	Refer to test graph	-26.97	recalc
	2462	SISO	1	Refer to test graph	-26.97	recalc
	2412	SISO	1	Refer to test graph	-27.20	recalc
802.11n(HT20)	2437	SISO	1	Refer to test graph	-27.20	recalc
	2462	SISO	1	Refer to test graph	-27.20	recalc
802.11n(HT40)	2422	SISO	1	Refer to test graph	-29.67	recalc
	2437	SISO	1	Refer to test graph	-29.67	recalc
	2452	SISO	1	Refer to test graph	-29.67	recalc

5.2 Test Graph

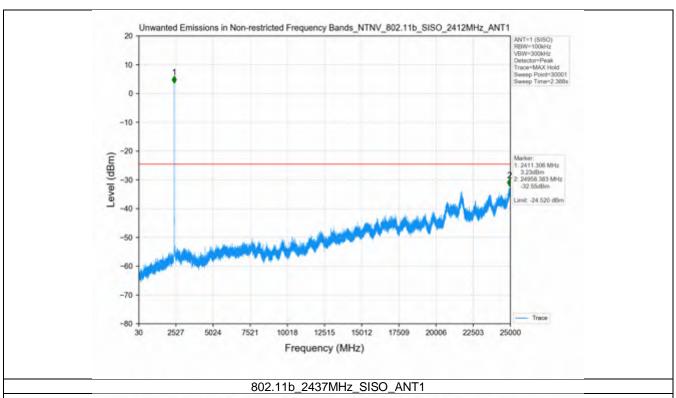
802.11b_SISO_ANT1_REF

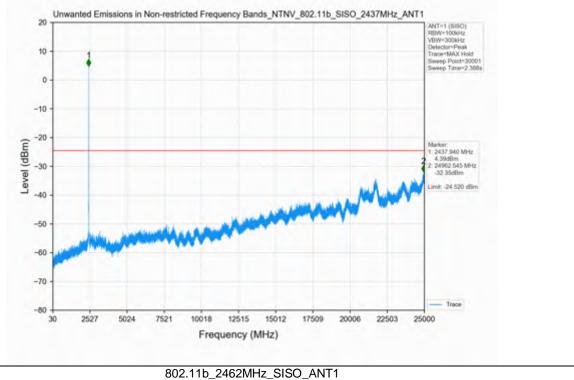




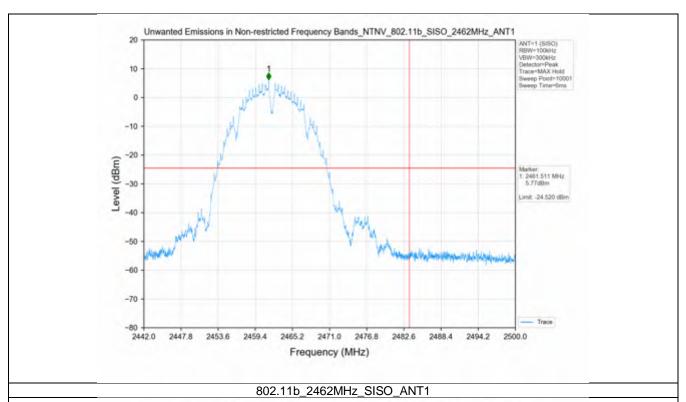


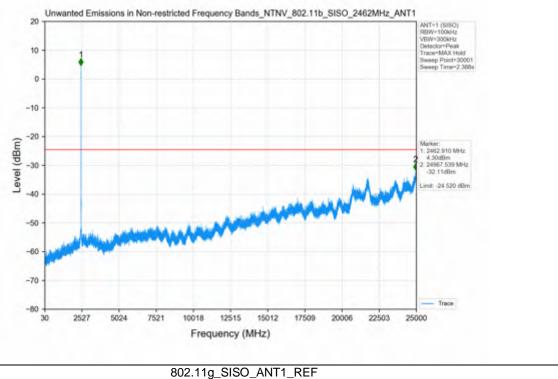














-60

2310.0

2322.2

2334.4

2346.6

2358.8

2371.0

Frequency (MHz)

802.11g_2412MHz_SISO_ANT1

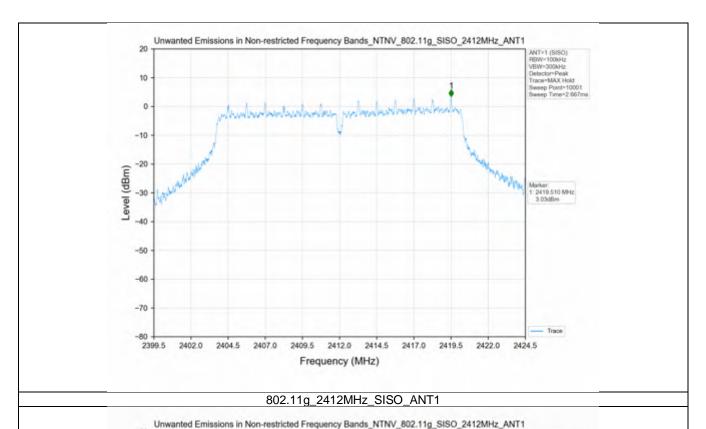
2383.2

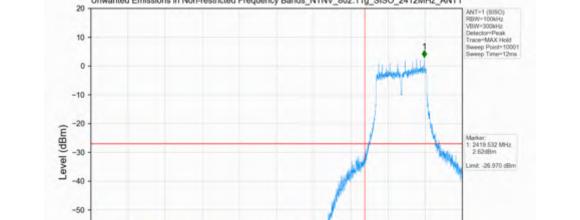
2395.4

2407.6

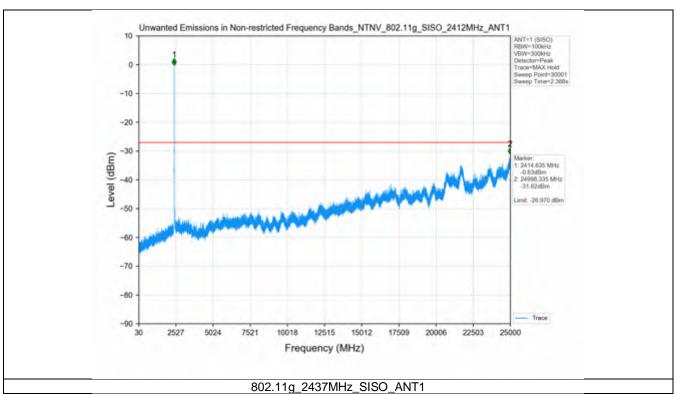
2419.8

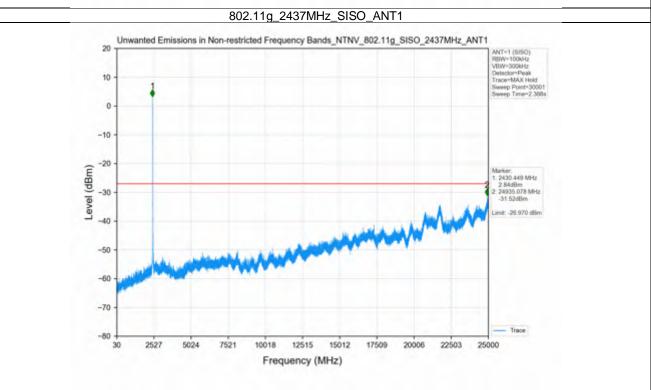
2432.0











802.11g_2462MHz_SISO_ANT1



