

Appendix for 15.247

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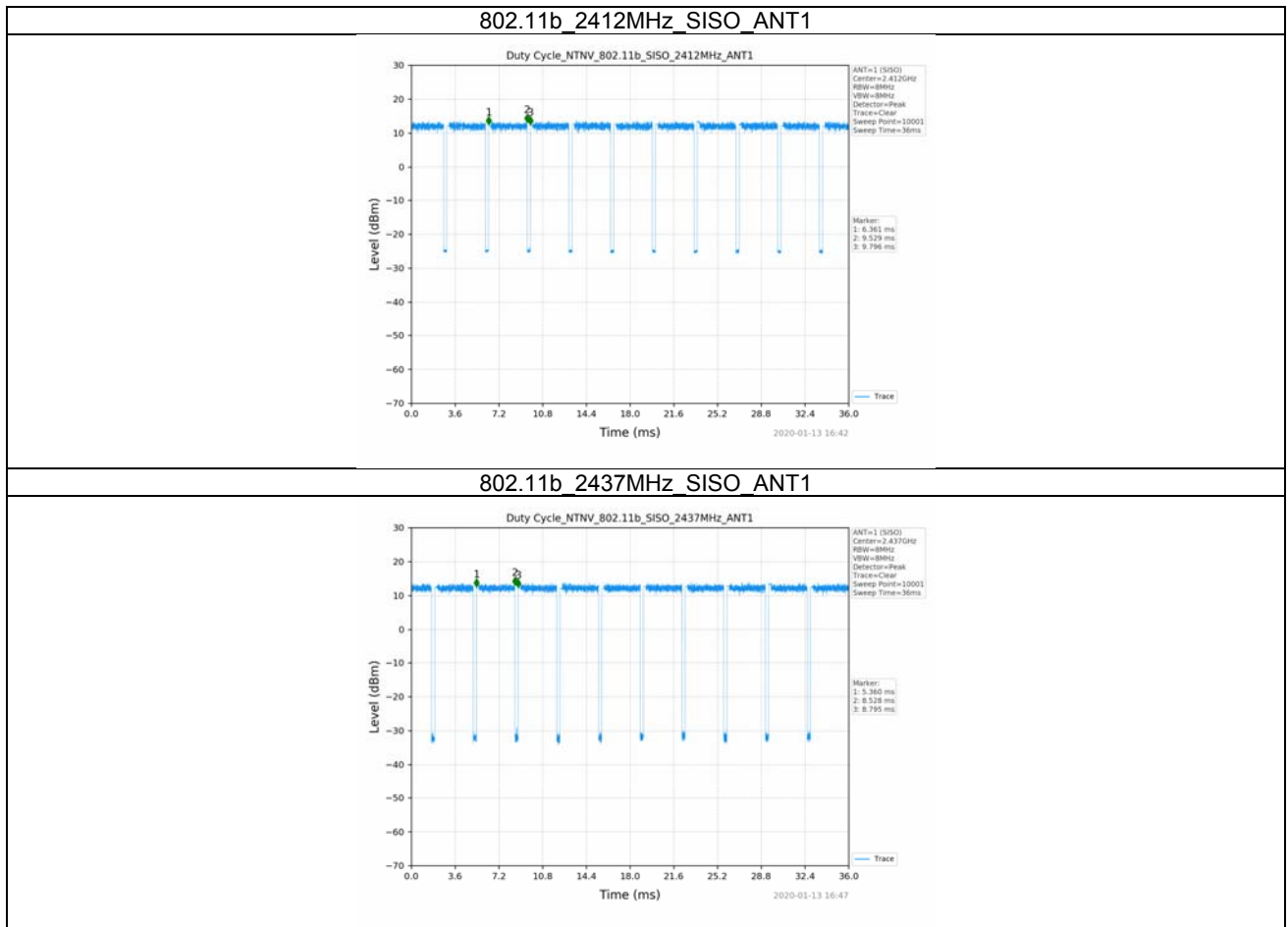
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1. Duty Cycle

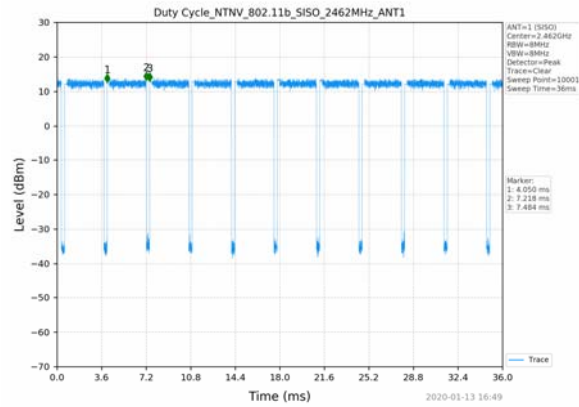
1.1 Test Result

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	3.168	3.435	92.23	0.35
	2437	SISO	1	3.168	3.435	92.23	0.35
	2462	SISO	1	3.168	3.434	92.25	0.35
802.11g	2412	SISO	1	0.605	0.868	69.70	1.57
	2437	SISO	1	0.606	0.869	69.74	1.57
	2462	SISO	1	0.605	0.868	69.70	1.57
802.11n(HT20)	2412	SISO	1	0.002	0.004	50.00	3.01
	2437	SISO	1	0.544	0.816	66.67	1.76
	2462	SISO	1	0.544	0.816	66.67	1.76

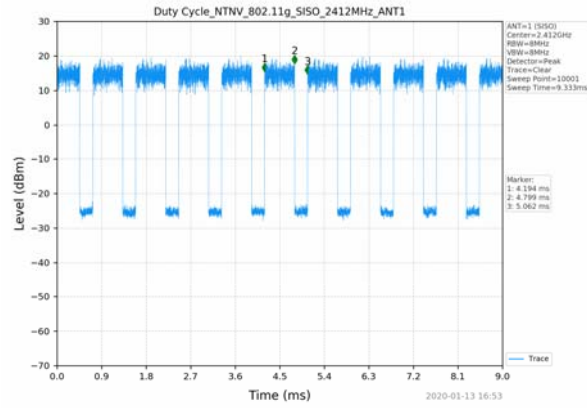
1.2 Test Graph



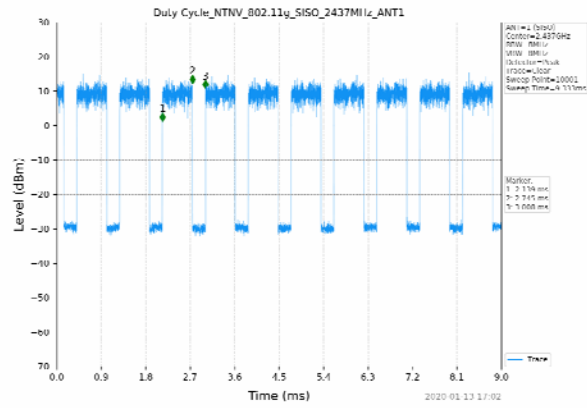
802.11b_2462MHz_SISO_ANT1



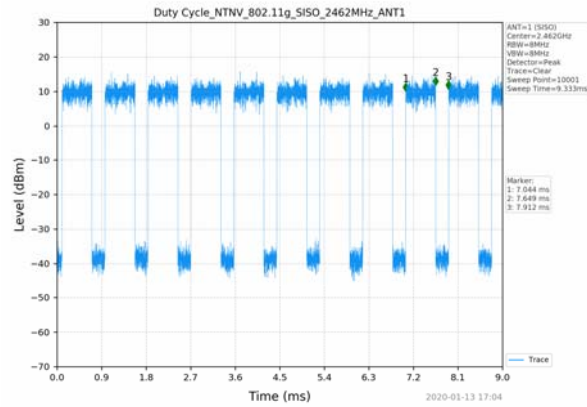
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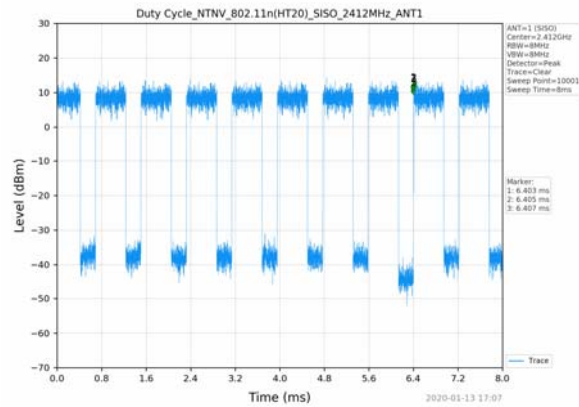
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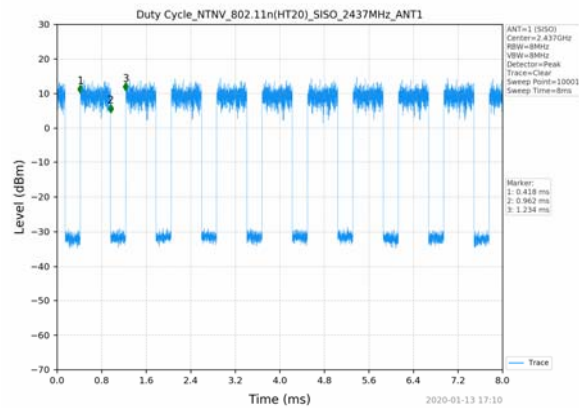
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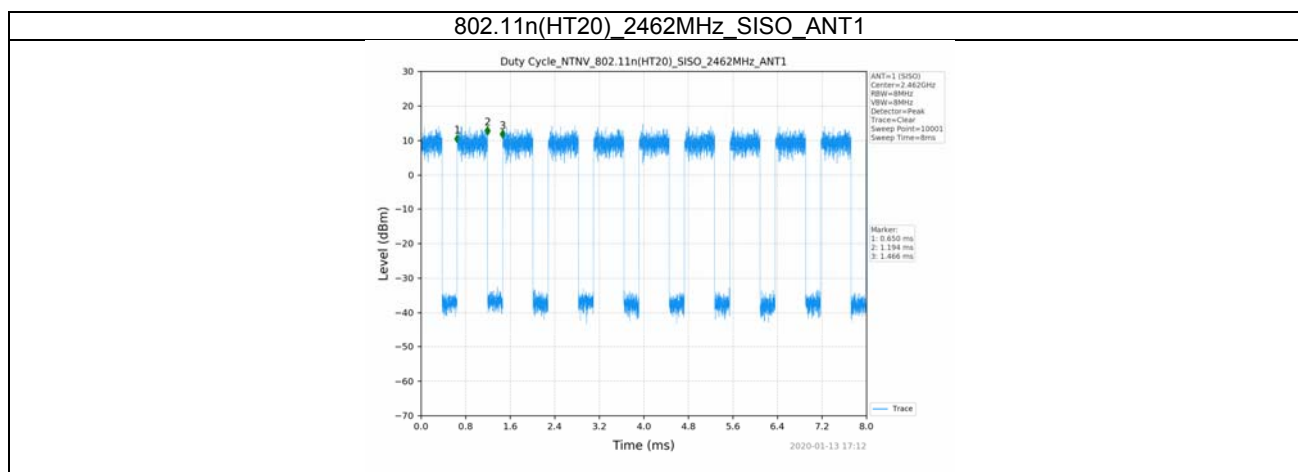


802.11n(HT20)_2412MHz_SISO_ANT1



802.11n(HT20)_2437MHz_SISO_ANT1





2. Bandwidth

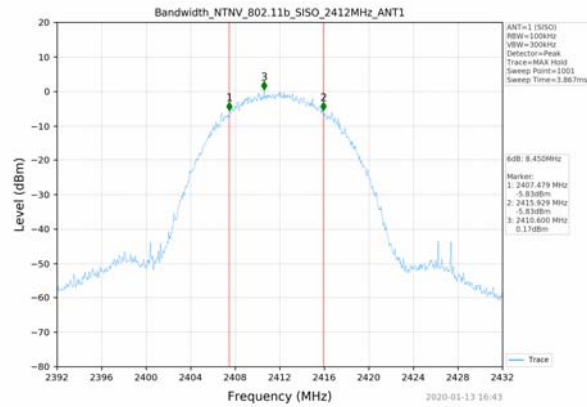
2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	8.450	≥ 0.5	PASS
	2437	SISO	1	8.681	≥ 0.5	PASS
	2462	SISO	1	8.502	≥ 0.5	PASS
802.11g	2412	SISO	1	16.455	≥ 0.5	PASS
	2437	SISO	1	16.464	≥ 0.5	PASS
	2462	SISO	1	16.462	≥ 0.5	PASS
802.11n(HT20)	2412	SISO	1	17.662	≥ 0.5	PASS
	2437	SISO	1	17.644	≥ 0.5	PASS
	2462	SISO	1	17.724	≥ 0.5	PASS

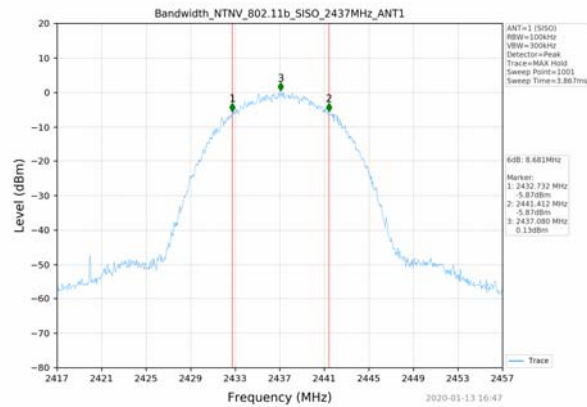
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	12.828	Only for Report Use
	2437	SISO	1	12.843	Only for Report Use
	2462	SISO	1	12.910	Only for Report Use
802.11g	2412	SISO	1	16.766	Only for Report Use
	2437	SISO	1	16.698	Only for Report Use
	2462	SISO	1	16.743	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.839	Only for Report Use
	2437	SISO	1	17.829	Only for Report Use
	2462	SISO	1	17.834	Only for Report Use

2.2 Test Graph - 6dB Bandwidth

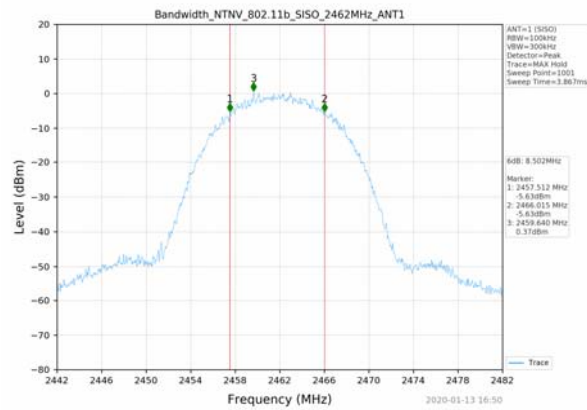
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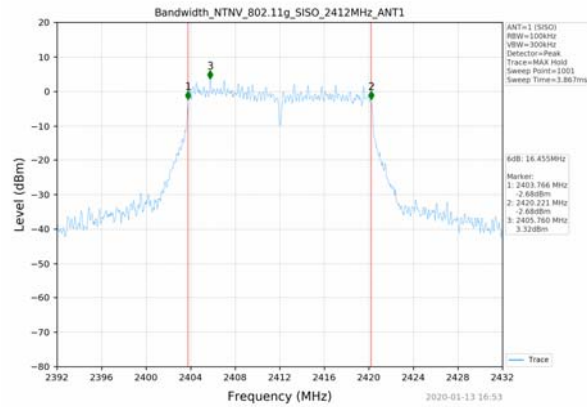
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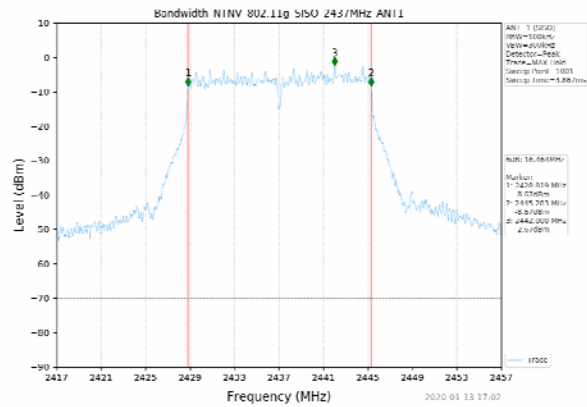
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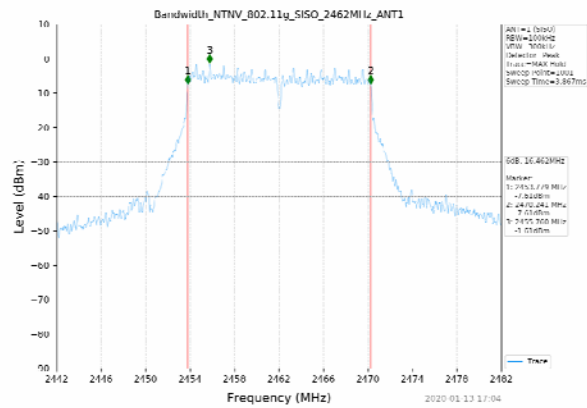
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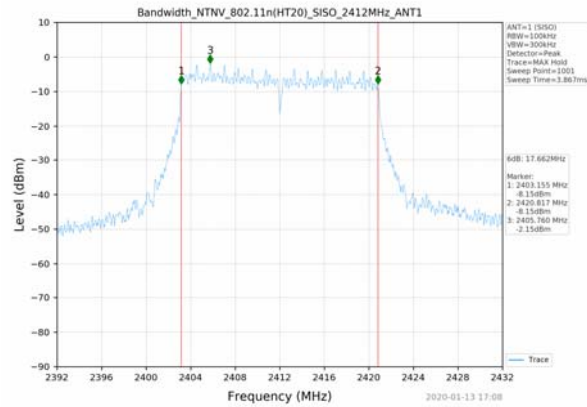
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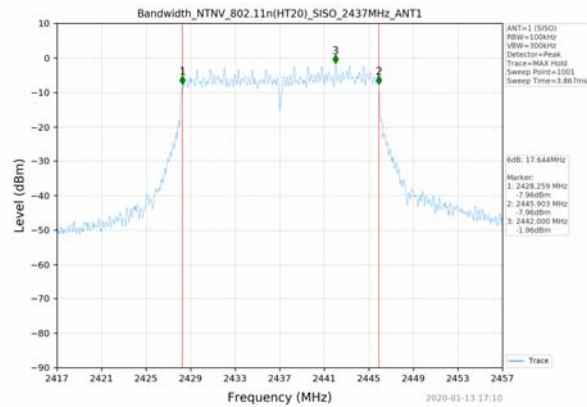
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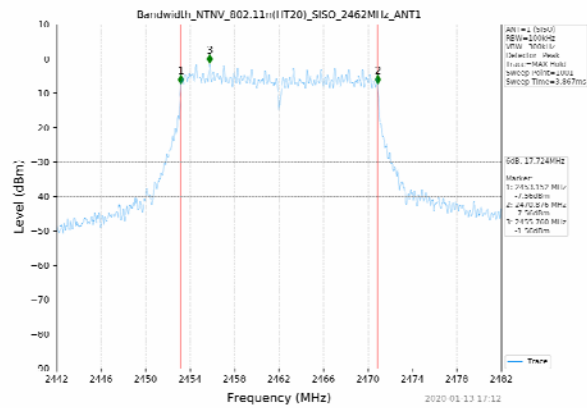
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802.11n(HT20)_2437MHz_SISO_ANT1

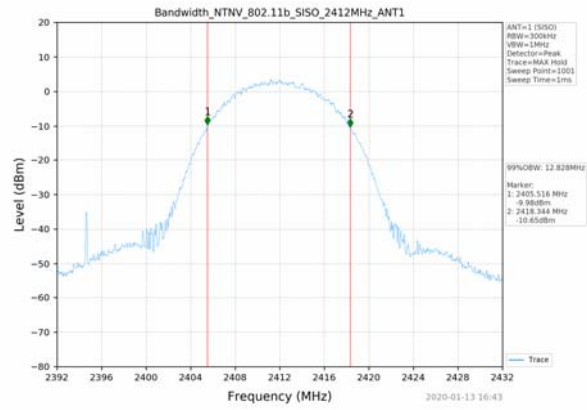


802.11n(HT20)_2462MHz_SISO_ANT1

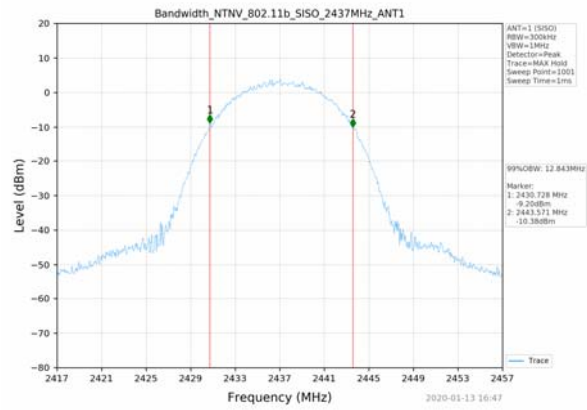


2.3 Test Graph - 99% Occupied Bandwidth

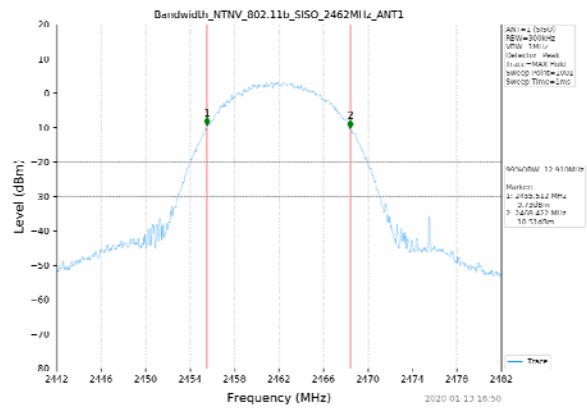
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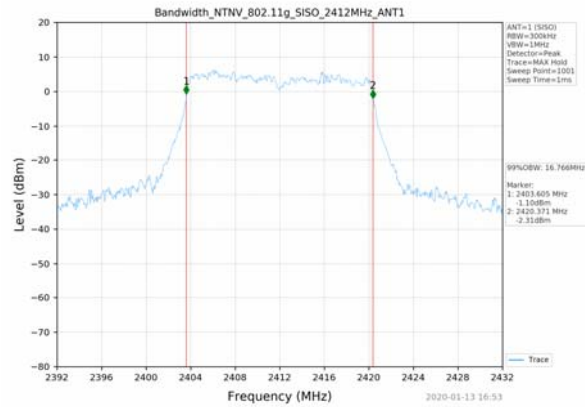
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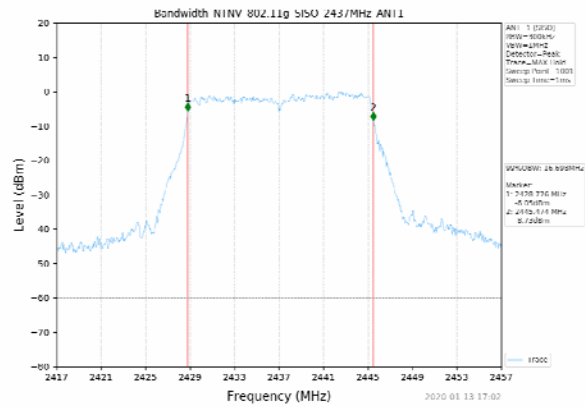
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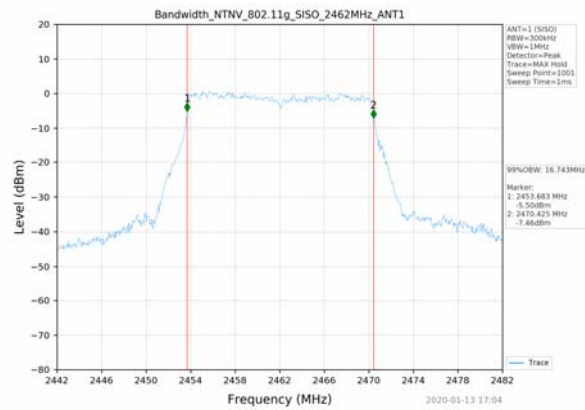
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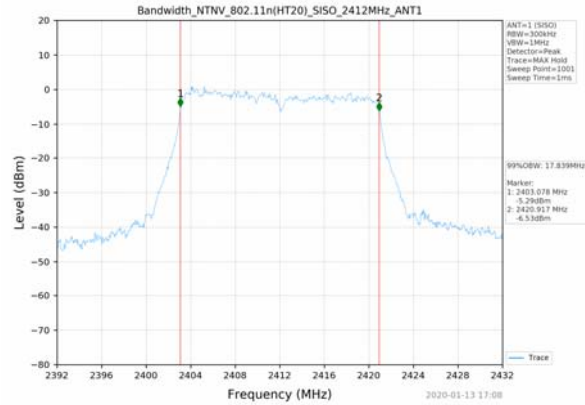
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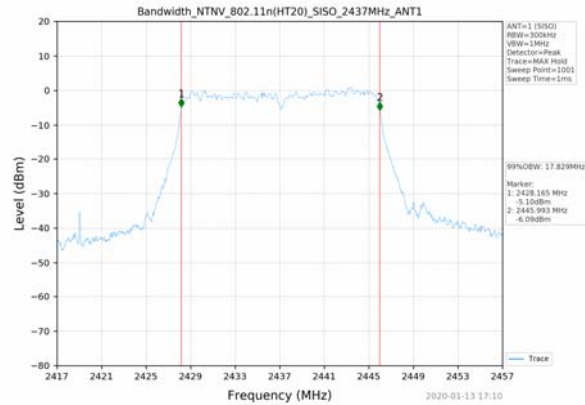
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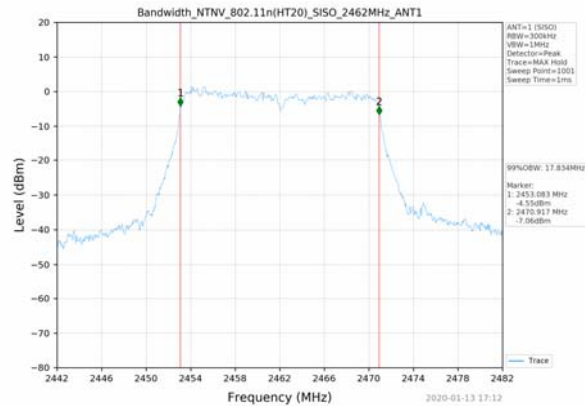
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802.11n(HT20)_2437MHz_SISO_ANT1



802.11n(HT20)_2462MHz_SISO_ANT1



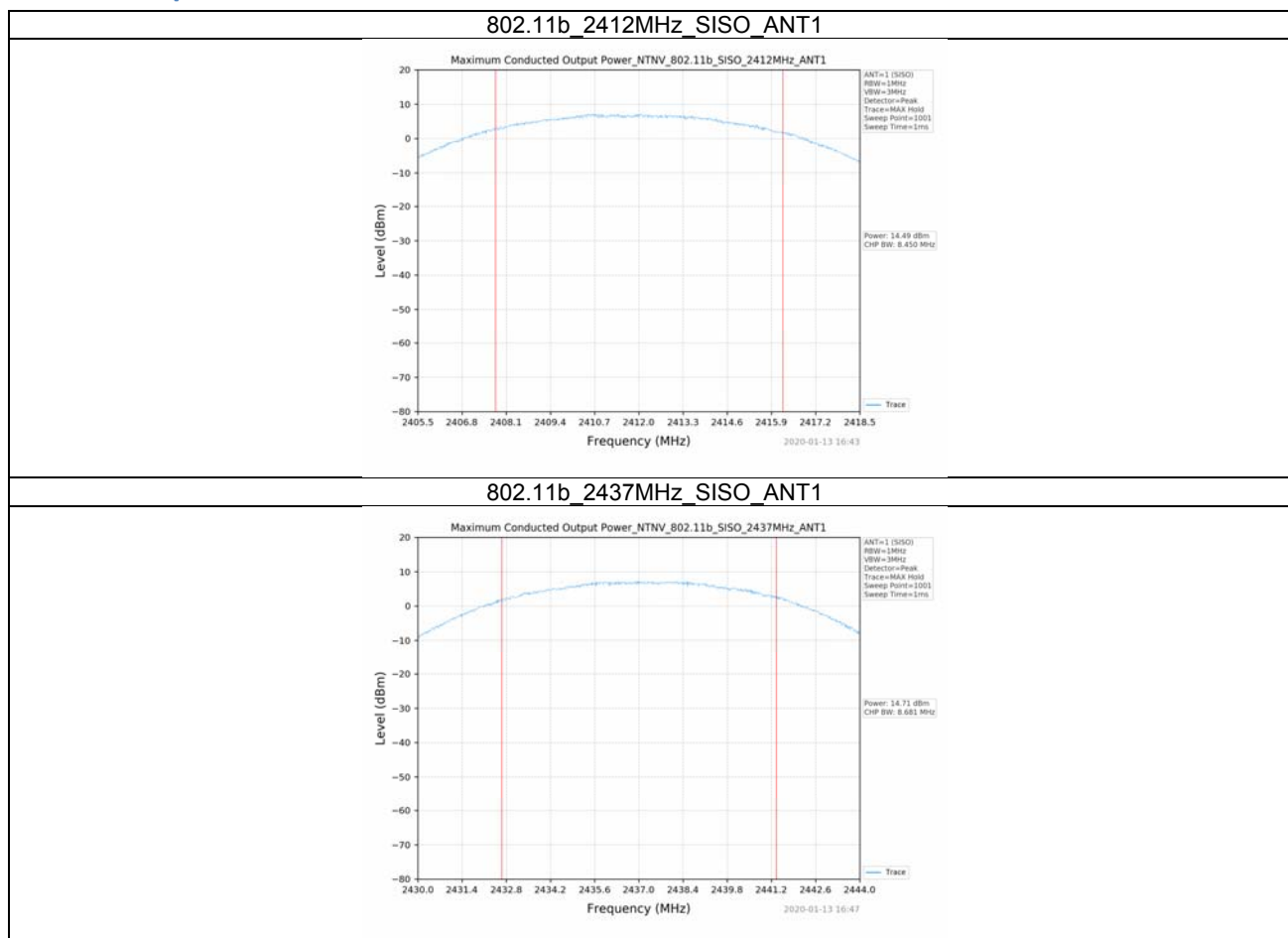
3. Maximum Conducted Output Power

3.1 Test Result

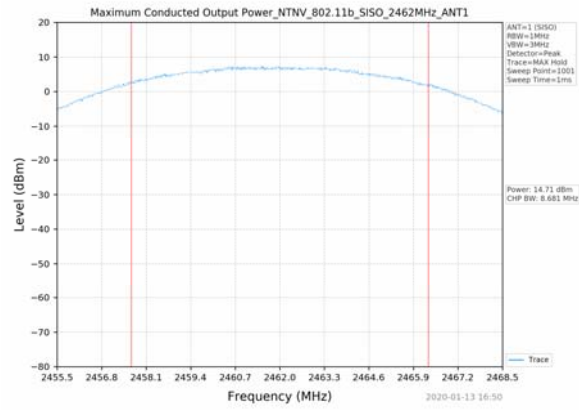
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
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			Ant 1		
802.11b	2412	SISO	14.49	30	PASS
	2437	SISO	14.71	30	PASS
	2462	SISO	14.71	30	PASS
802.11g	2412	SISO	17.65	30	PASS
	2437	SISO	16.10	30	PASS
	2462	SISO	16.91	30	PASS
802.11n(HT20)	2412	SISO	16.13	30	PASS
	2437	SISO	16.69	30	PASS
	2462	SISO	16.92	30	PASS

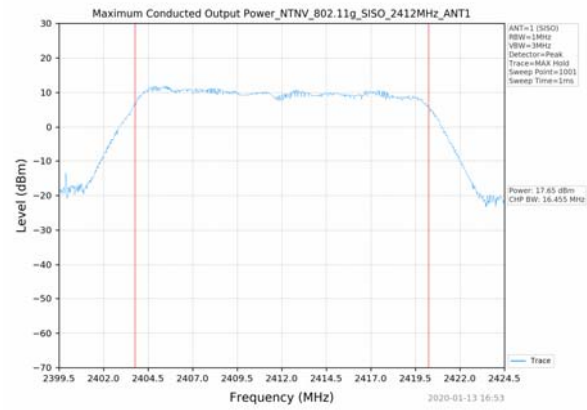
3.2 Test Graph



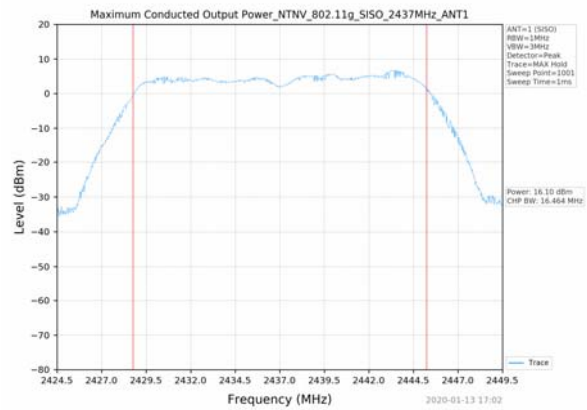
802.11b_2462MHz_SISO_ANT1



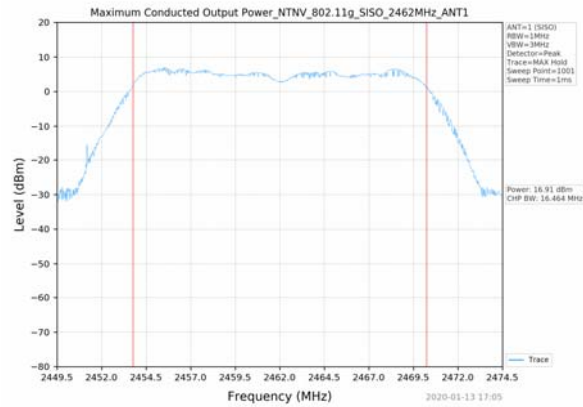
802.11g_2412MHz_SISO_ANT1



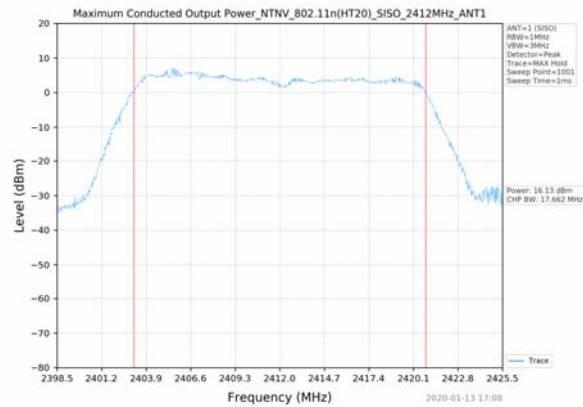
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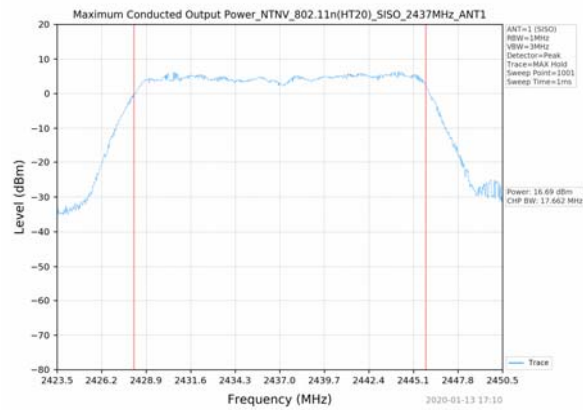
802.11g_2462MHz_SISO_ANT1

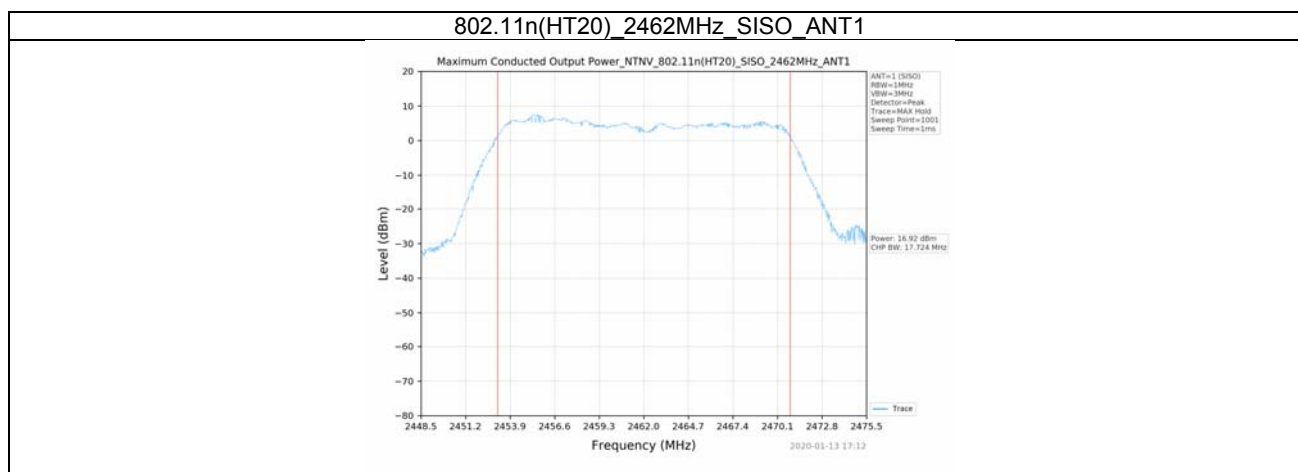


802.11n(HT20)_2412MHz_SISO_ANT1



802.11n(HT20)_2437MHz_SISO_ANT1



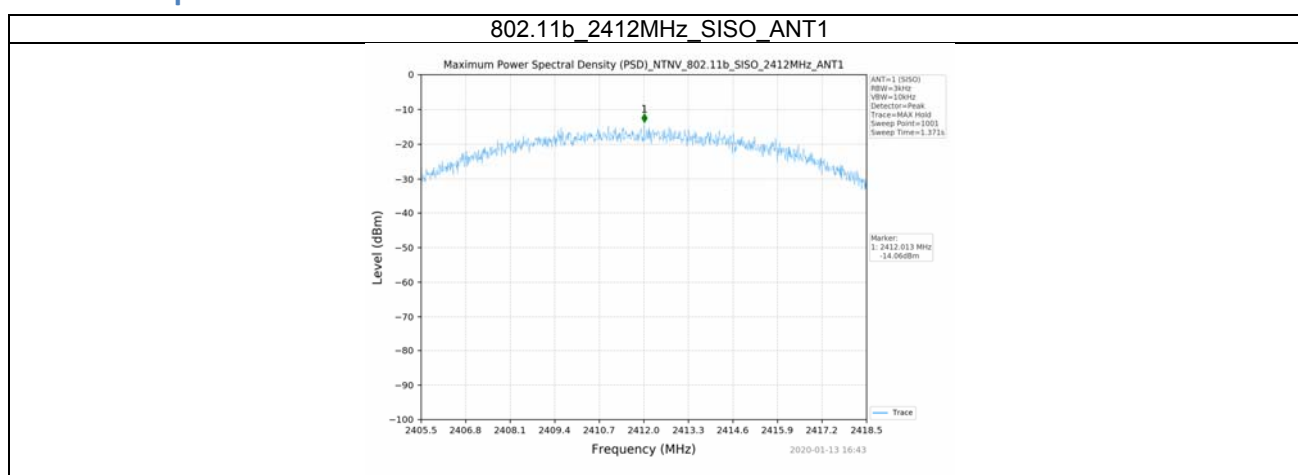


4. Maximum Power Spectral Density (PSD)

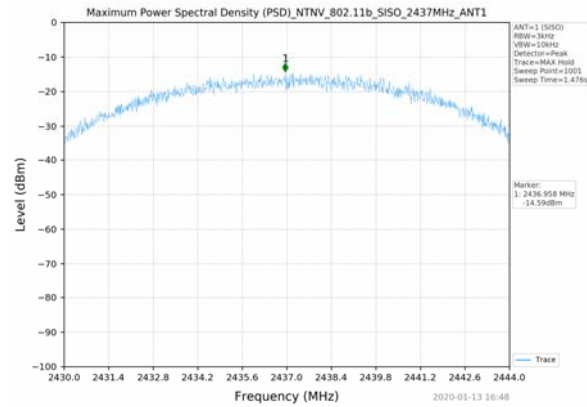
4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-14.06	≤8	PASS
	2437	SISO	-14.59	≤8	PASS
	2462	SISO	-14.09	≤8	PASS
802.11g	2412	SISO	-11.92	≤8	PASS
	2437	SISO	-17.49	≤8	PASS
	2462	SISO	-16.91	≤8	PASS
802.11n(HT20)	2412	SISO	-16.13	≤8	PASS
	2437	SISO	-16.96	≤8	PASS
	2462	SISO	-15.58	≤8	PASS

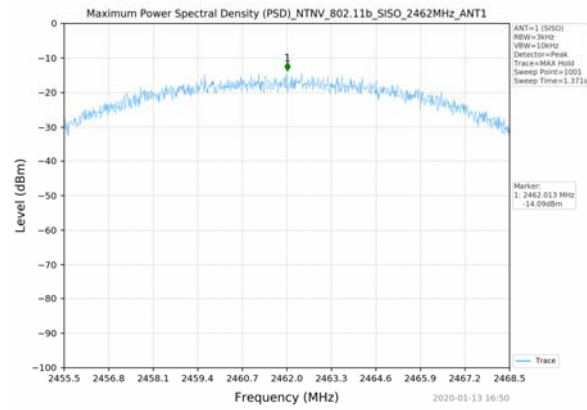
4.2 Test Graph



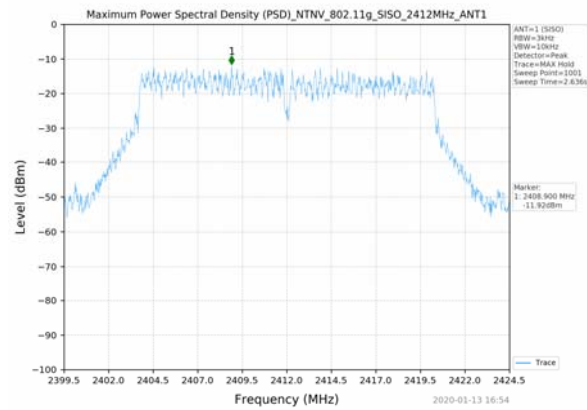
802.11b_2437MHz_SISO_ANT1



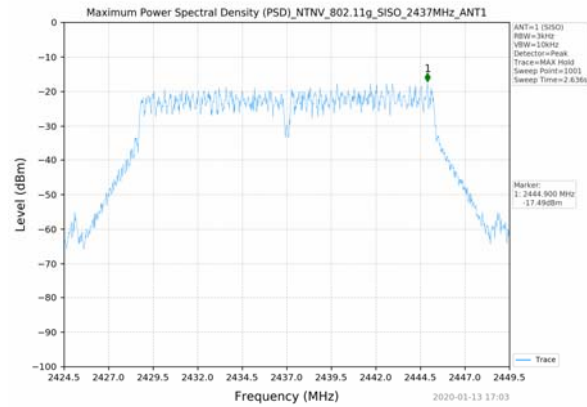
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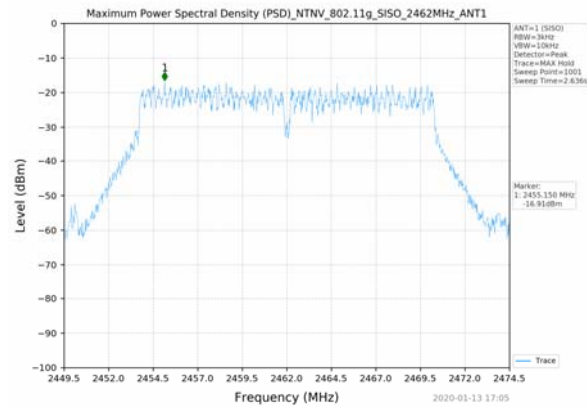
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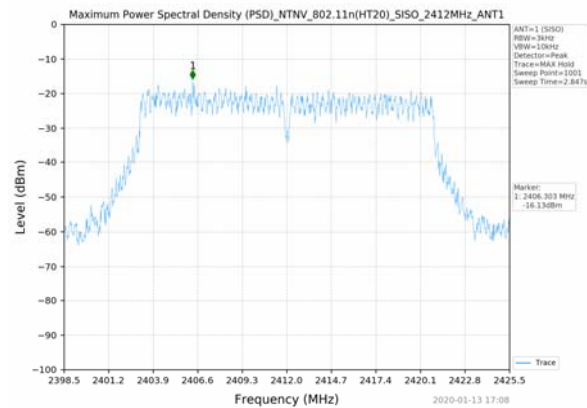
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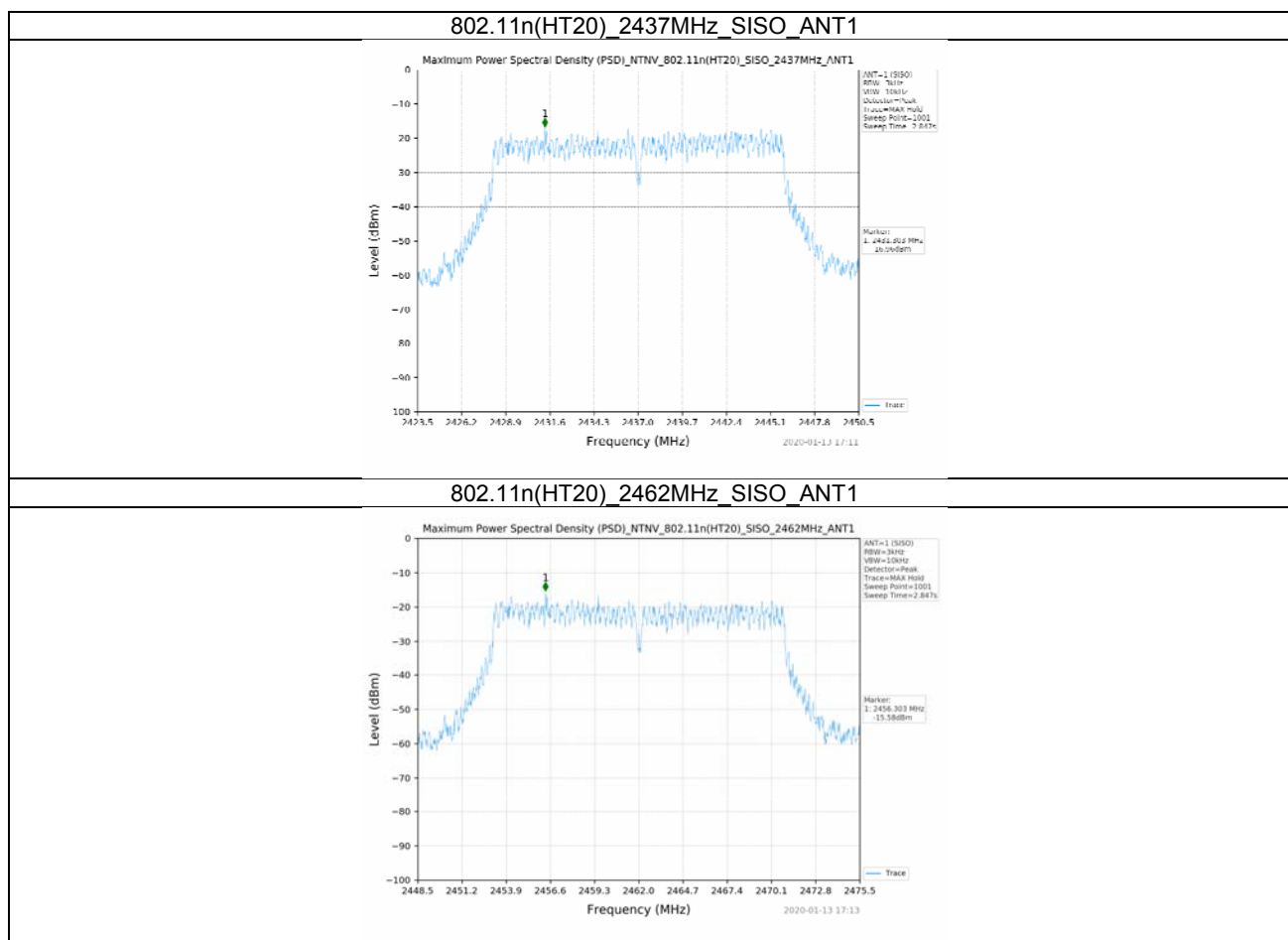


802.11g_2462MHz_SISO_ANT1



802.11n(HT20)_2412MHz_SISO_ANT1





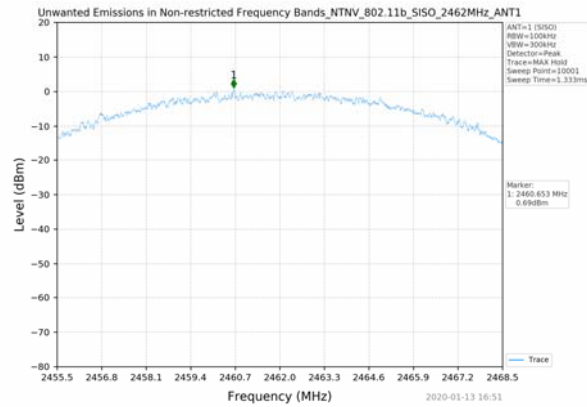
5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

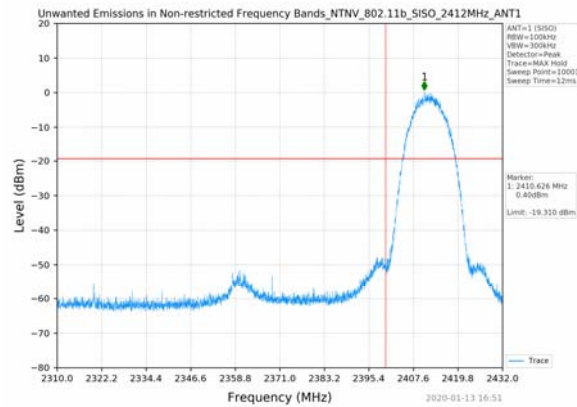
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-19.31	PASS
	2437	SISO	1	Refer to test graph	-19.31	PASS
	2462	SISO	1	Refer to test graph	-19.31	PASS
802.11g	2412	SISO	1	Refer to test graph	-16.75	PASS
	2437	SISO	1	Refer to test graph	-16.75	PASS
	2462	SISO	1	Refer to test graph	-16.75	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-21.59	PASS
	2437	SISO	1	Refer to test graph	-21.59	PASS
	2462	SISO	1	Refer to test graph	-21.59	PASS

5.2 Test Graph

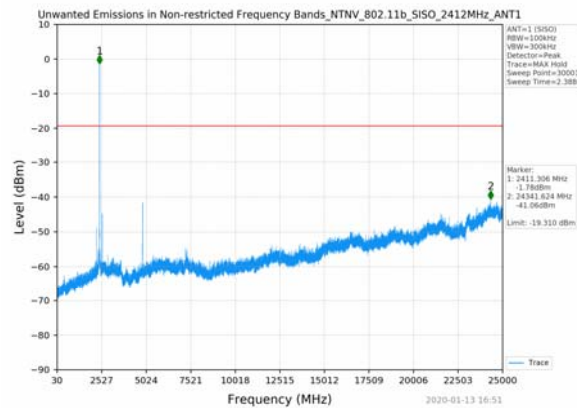
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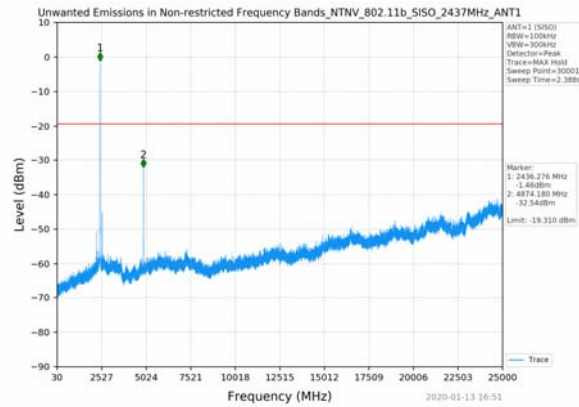
802.11b_2412MHz_SISO_ANT1



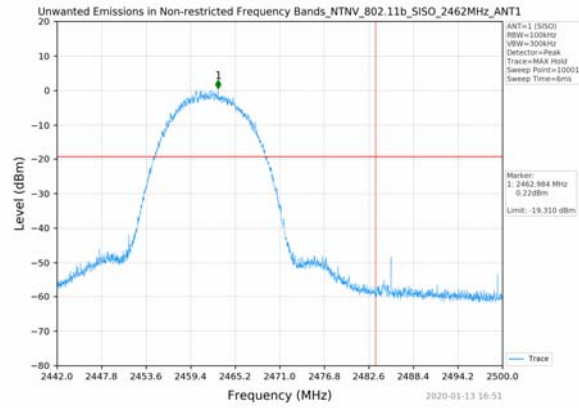
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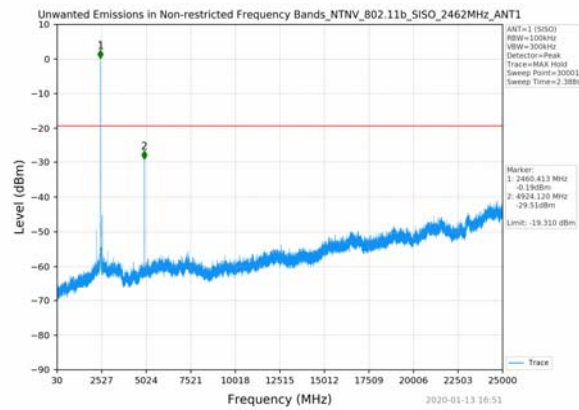
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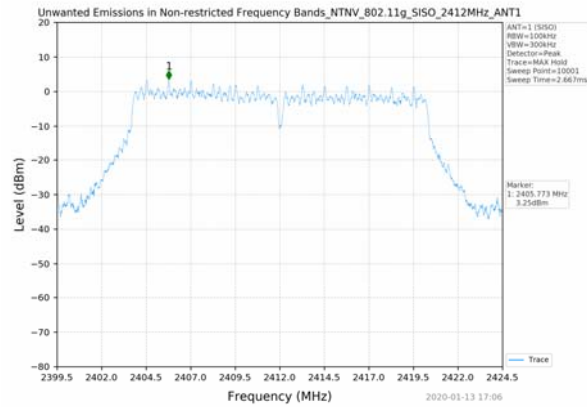
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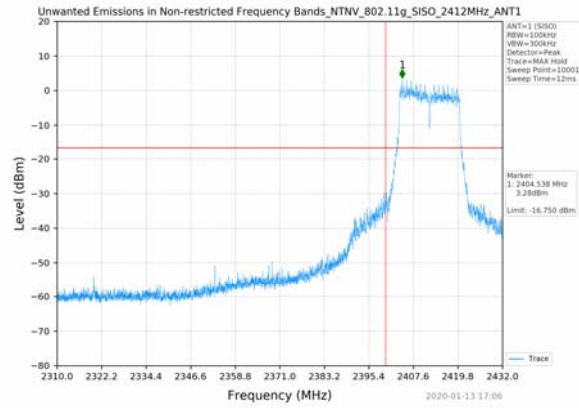
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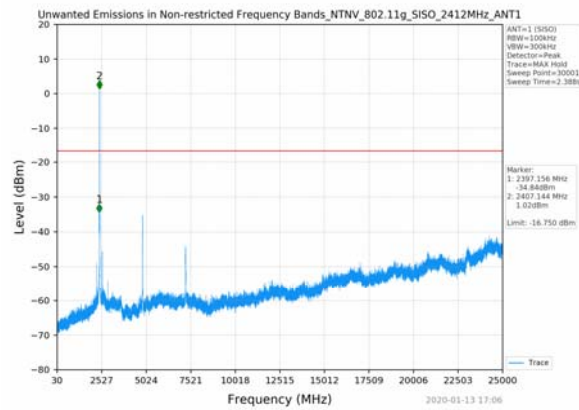
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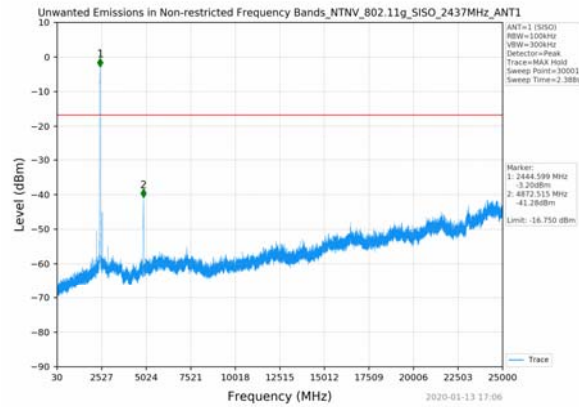
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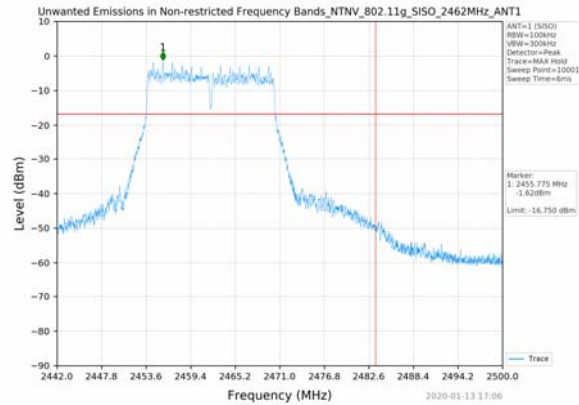
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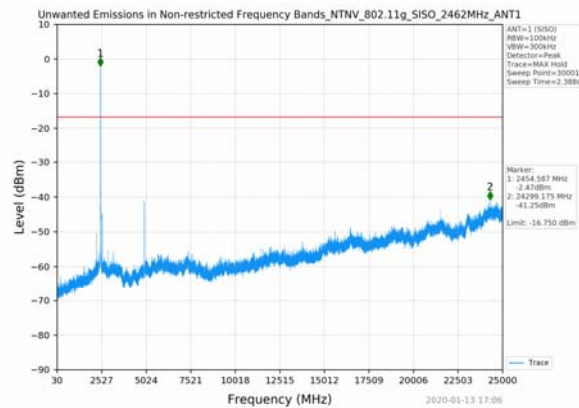
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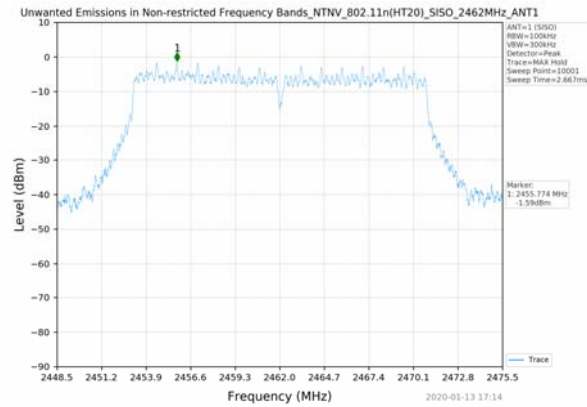
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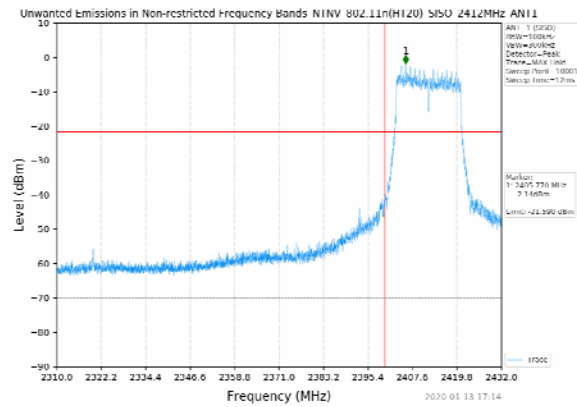
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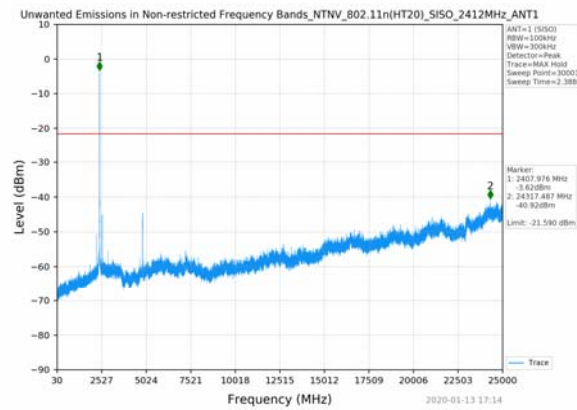
802.11n(HT20)_SISO_ANT1_REF



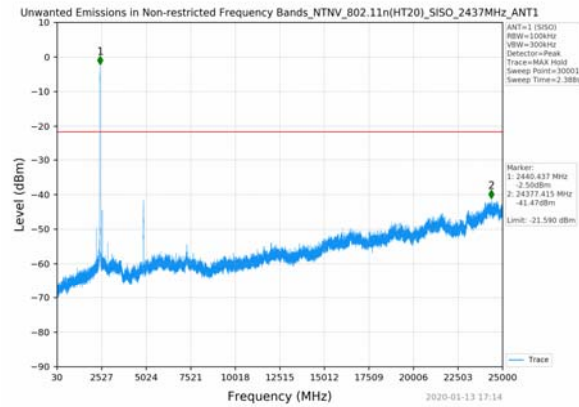
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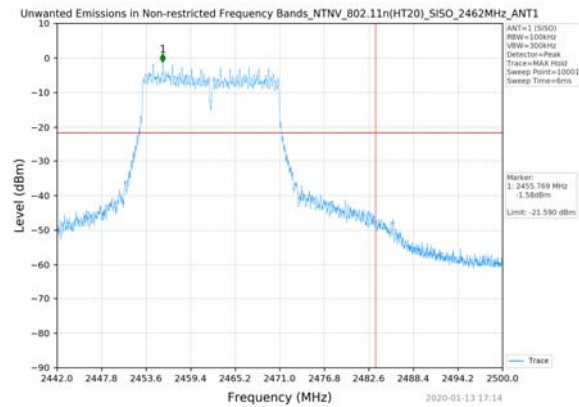
802.11n(HT20)_2412MHz_SISO_ANT1



802.11n(HT20)_2437MHz_SISO_ANT1



802.11n(HT20)_2462MHz_SISO_ANT1



802.11n(HT20)_2462MHz_SISO_ANT1

