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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maxin	Limits (dBm/3kHz)		Verdict			
			Ant 1	Ant 2	Ant 3	Total	SISO	MIMO	
802.11b	2412	SISO	1.23	-0.93	-0.41	/	≤8	/	PASS
	2437	SISO	-2.62	1.62	-5.25	/	≤8	/	PASS
	2462	SISO	-1.94	2.62	4.06	/	≤8	/	PASS
802.11g	2412	SISO	-15.32	-16.96	-15.30	/	≤8	/	PASS
	2437	SISO	-15.70	-16.78	-16.13	/	≤8	/	PASS
	2462	SISO	-15.26	-13.81	-13.77	/	≤8	/	PASS
802.11n(HT20)	2412	MIMO	-14.85	-15.55	-15.43	-10.86	/	≤6.03	PASS
	2437	MIMO	-14.62	-15.32	-14.54	-10.61	/	≤6.03	PASS
	2462	MIMO	-13.53	-12.82	-12.52	-8.62	/	≤6.03	PASS
802.11n(HT40)	2422	MIMO	-18.05	-18.68	-19.09	-14.75	/	≤6.03	PASS
	2437	MIMO	-18.81	-20.02	-19.00	-15.47	/	≤6.03	PASS
	2452	MIMO	-19.16	-17.62	-17.65	-14.26	/	≤6.03	PASS

Note: Directional gain=Gant + Array gain= GAnt + 10*log(NAnt/Nss) = 3.2+10*log(3/1) =7.97dBi.



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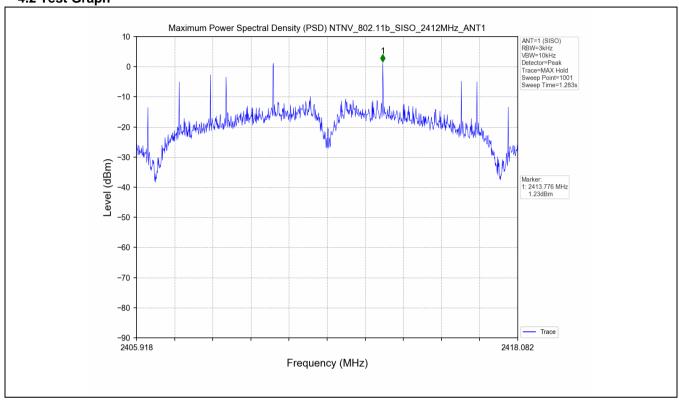
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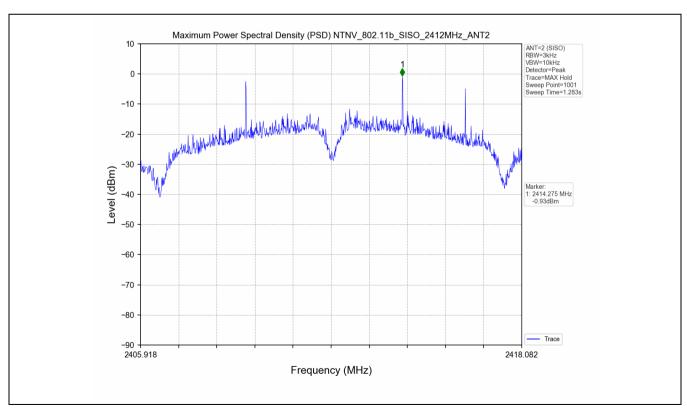


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4.2 Test Graph







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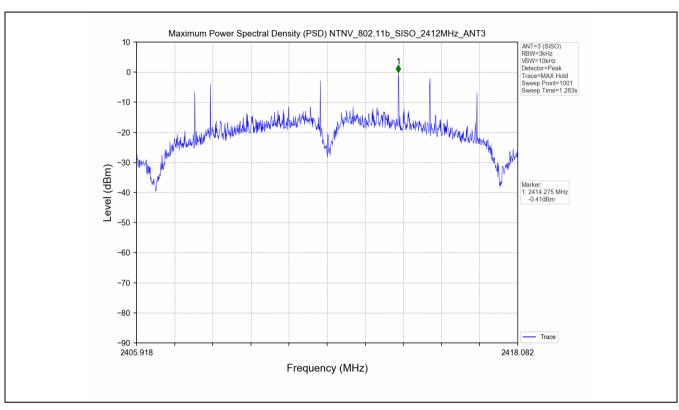
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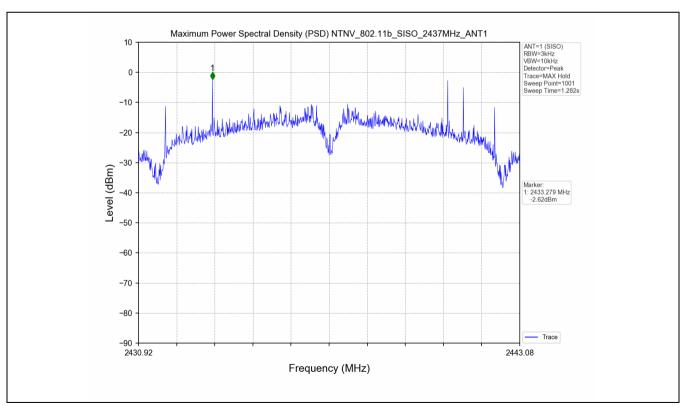
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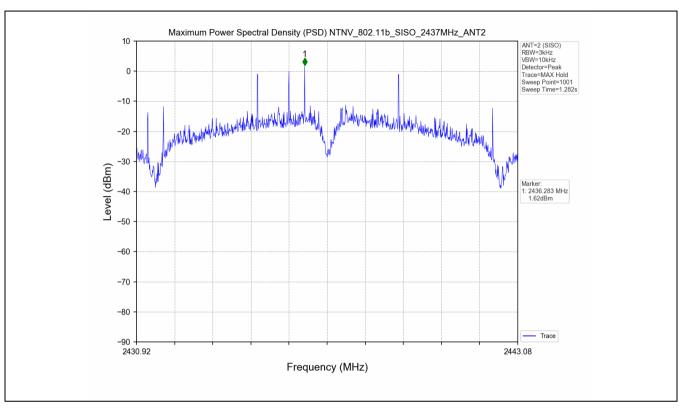
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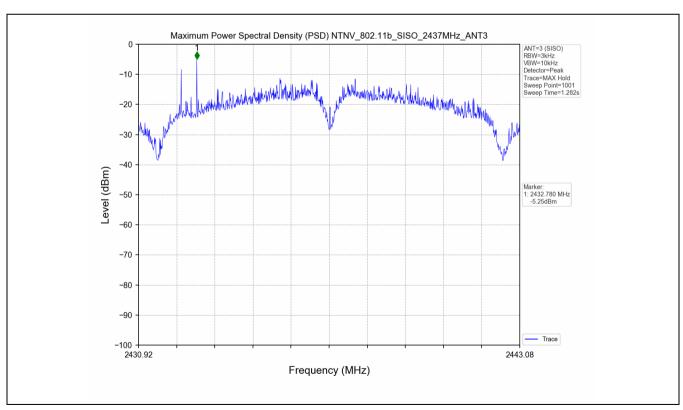
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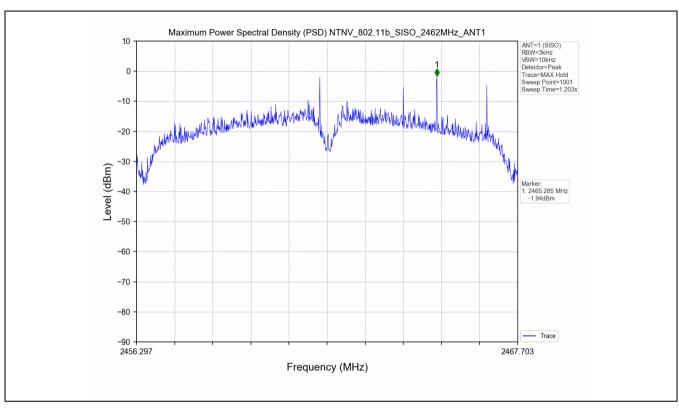
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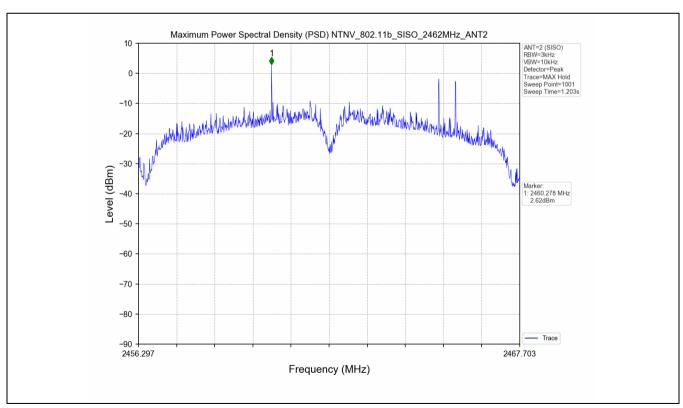
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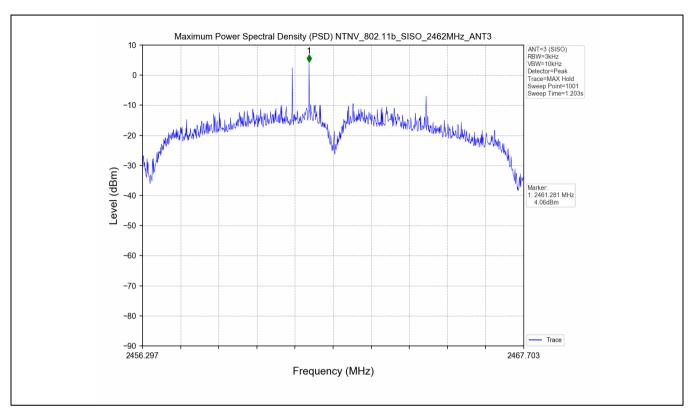
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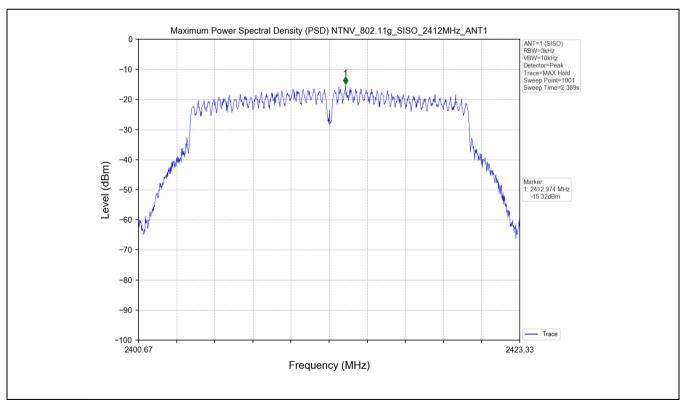
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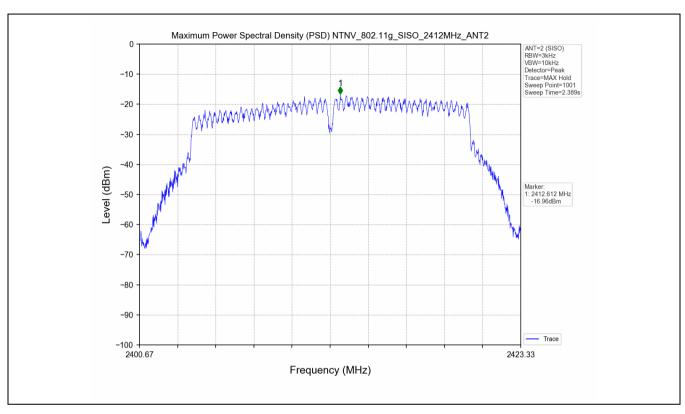
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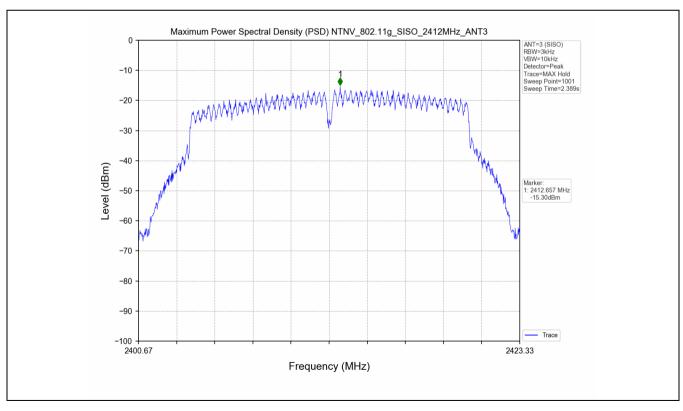
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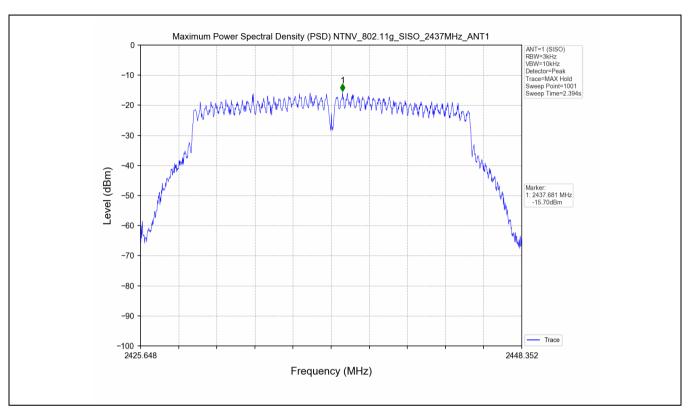
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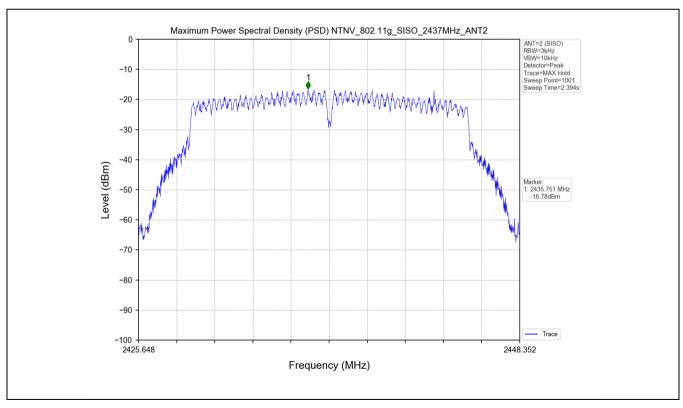
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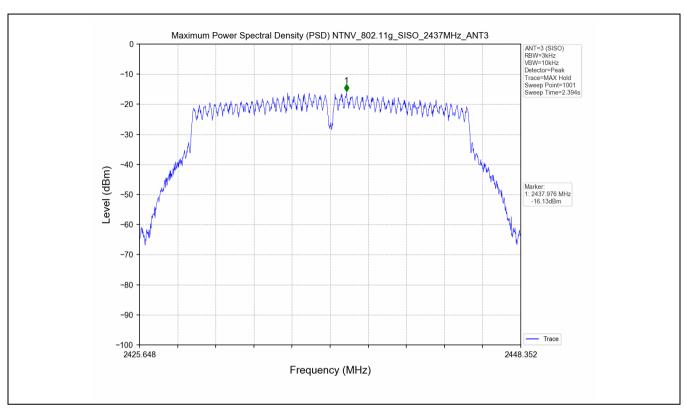
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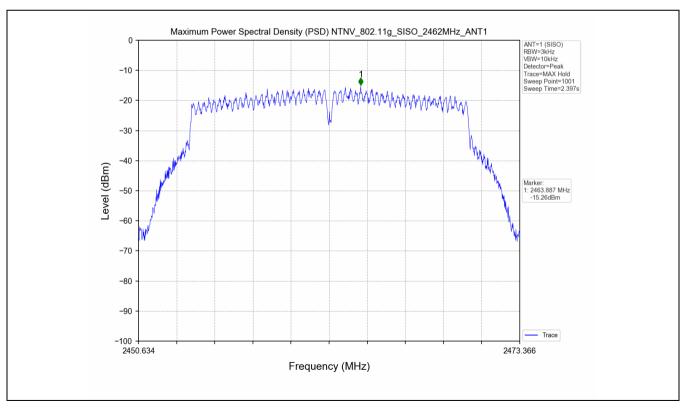
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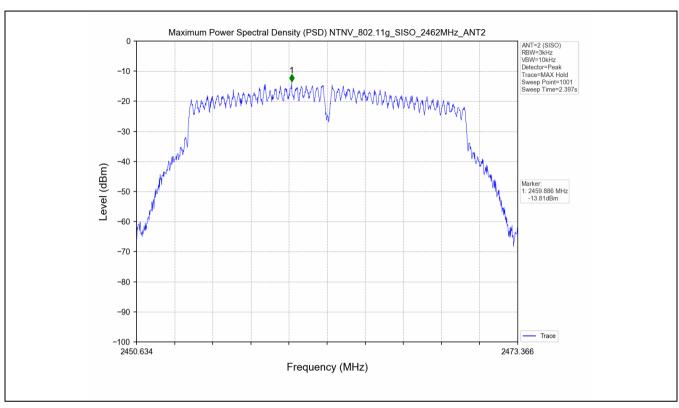
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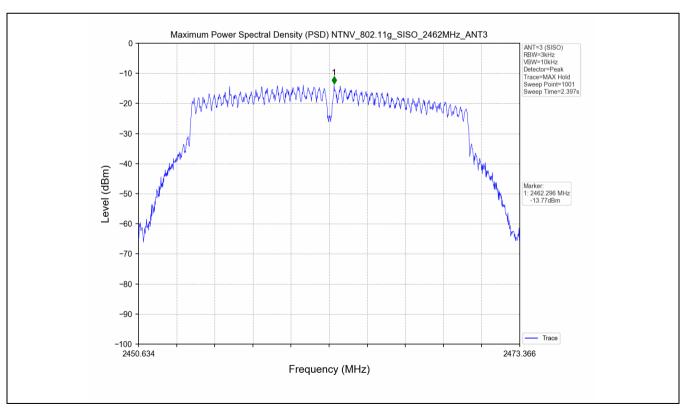
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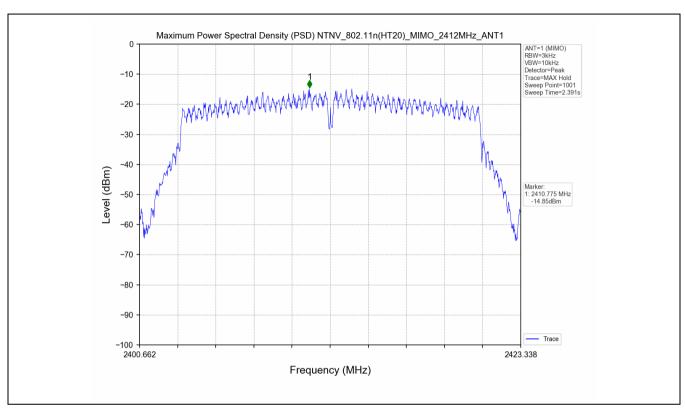
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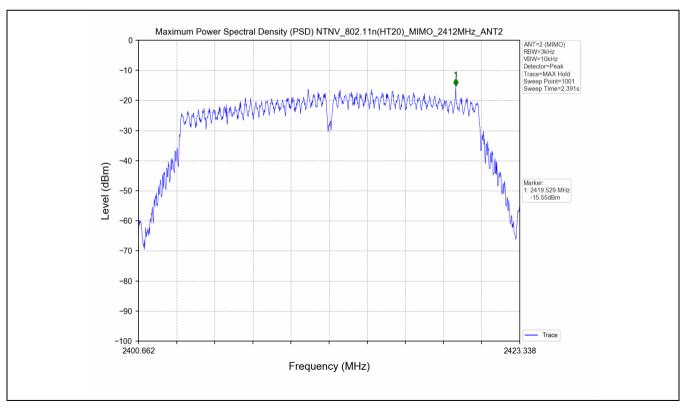
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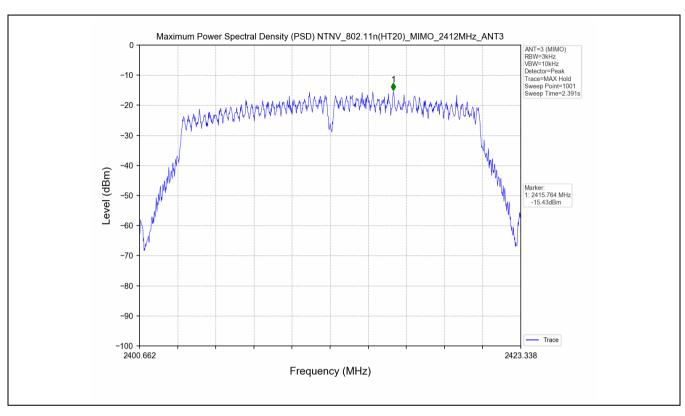
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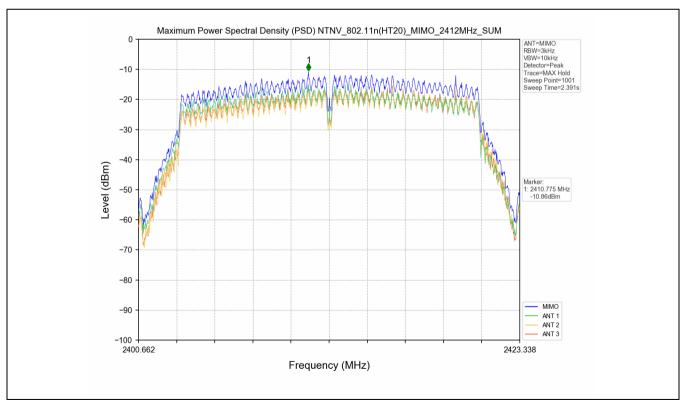
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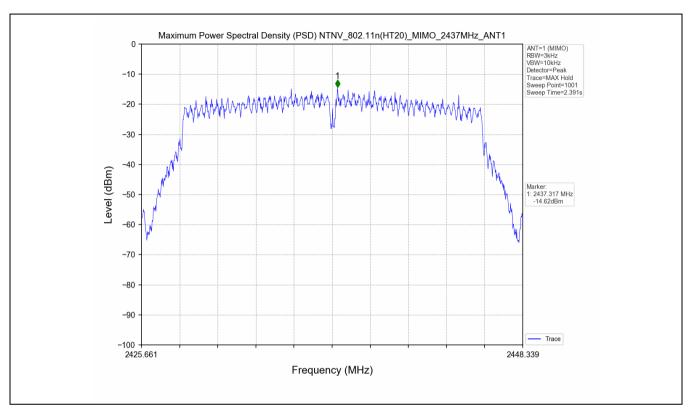
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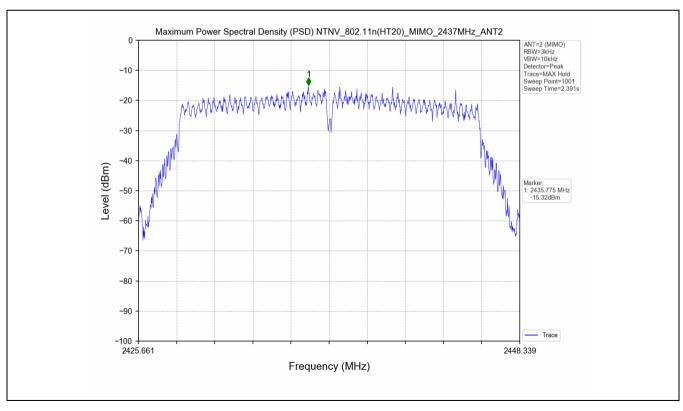
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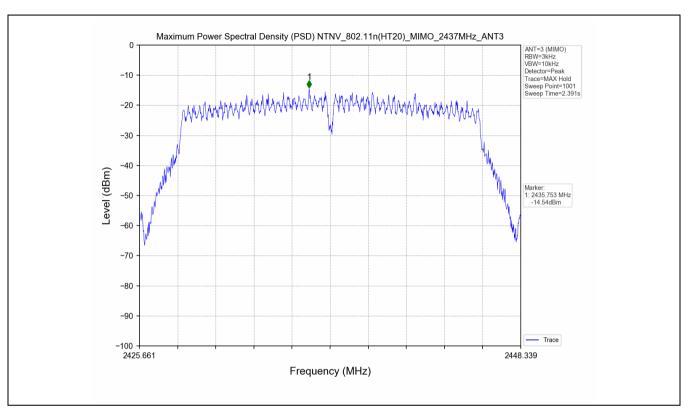
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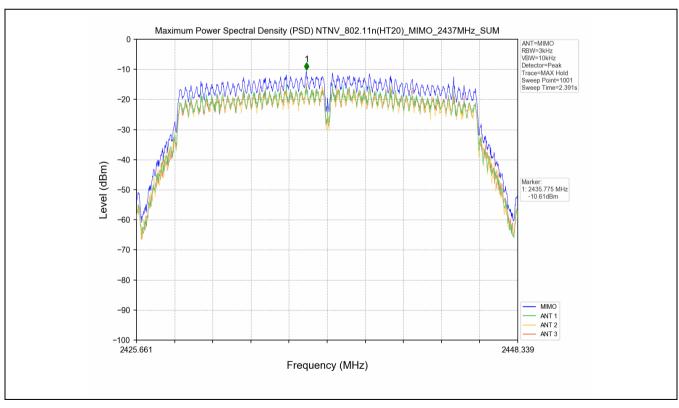
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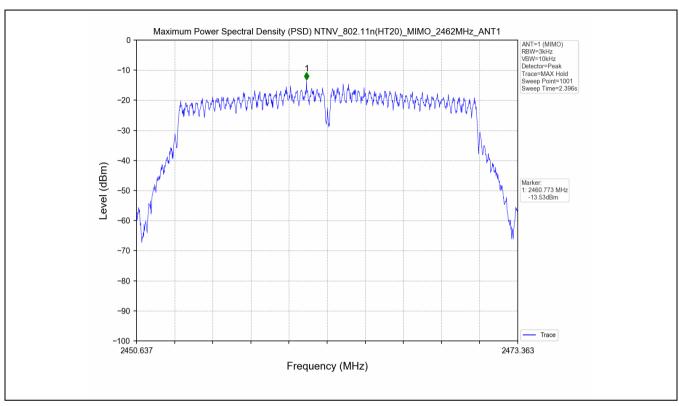
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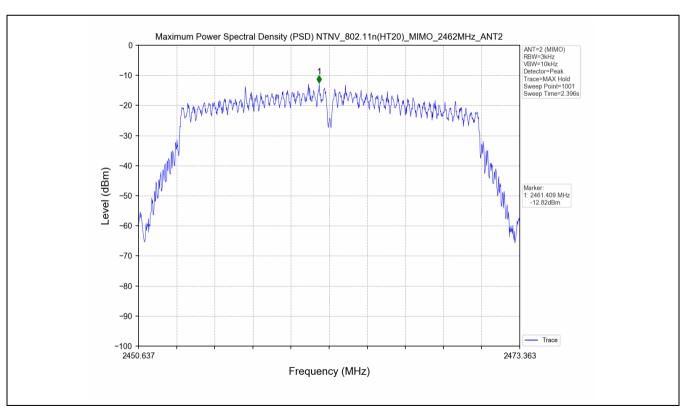
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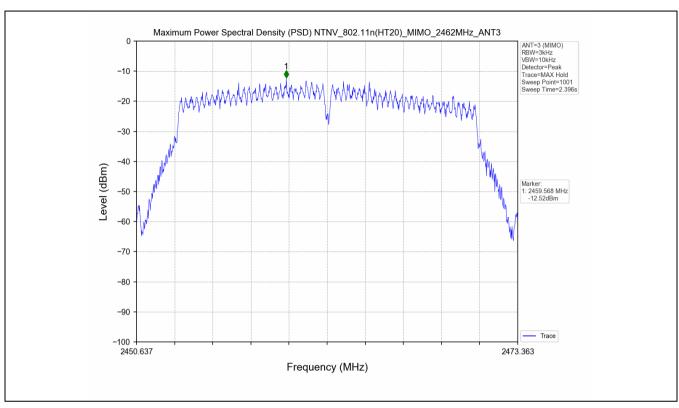
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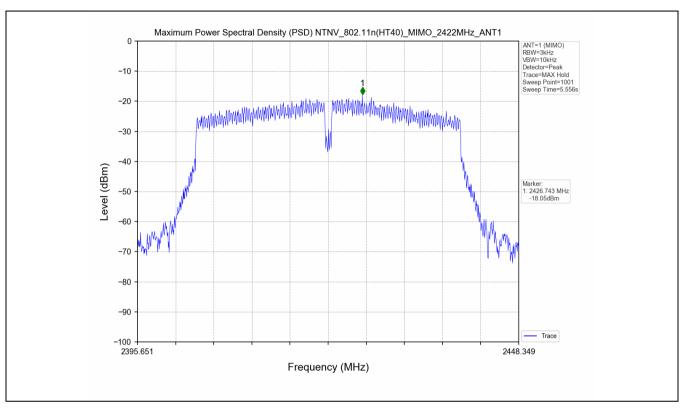
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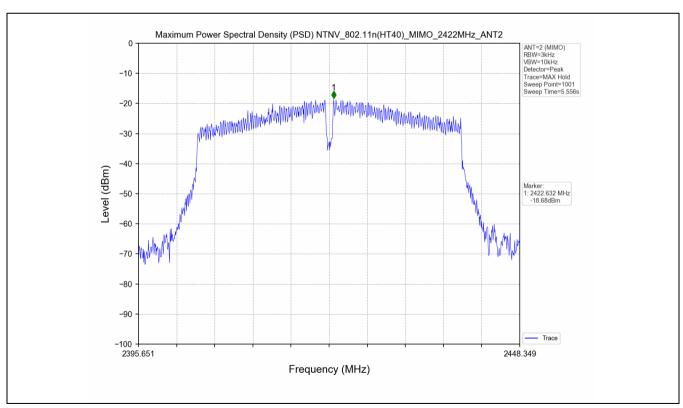
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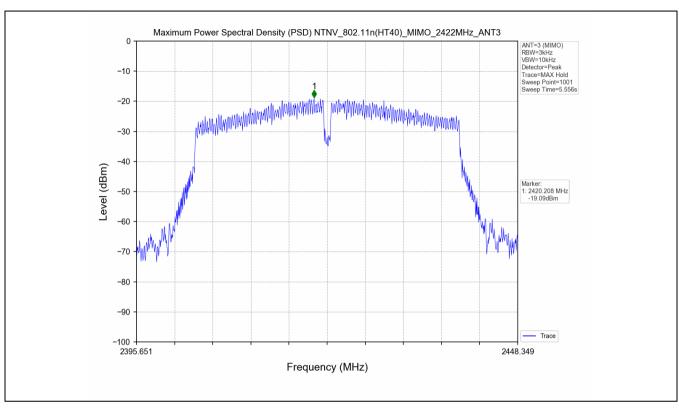
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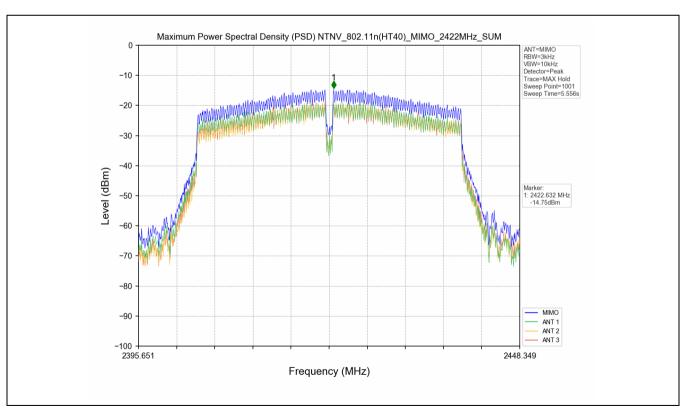
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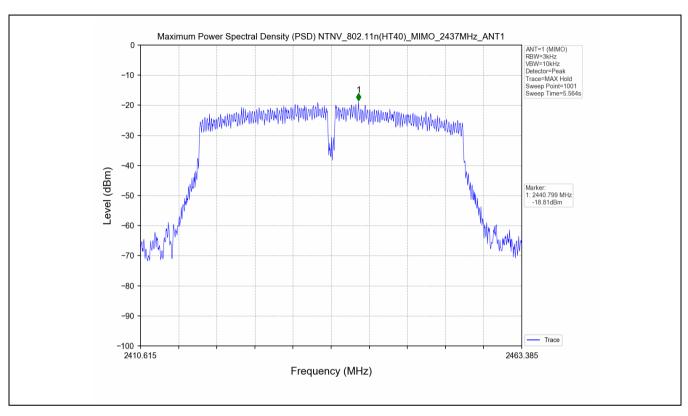
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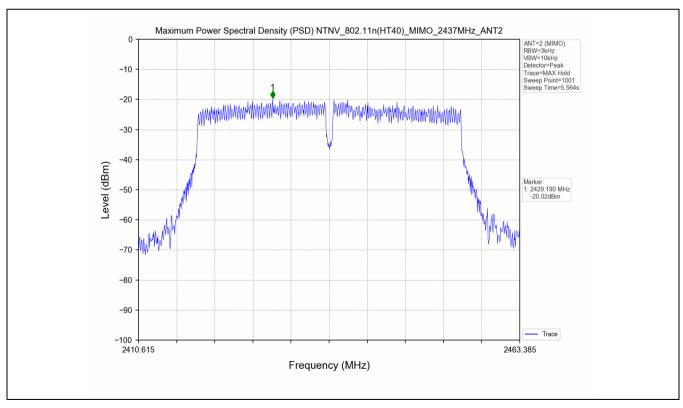
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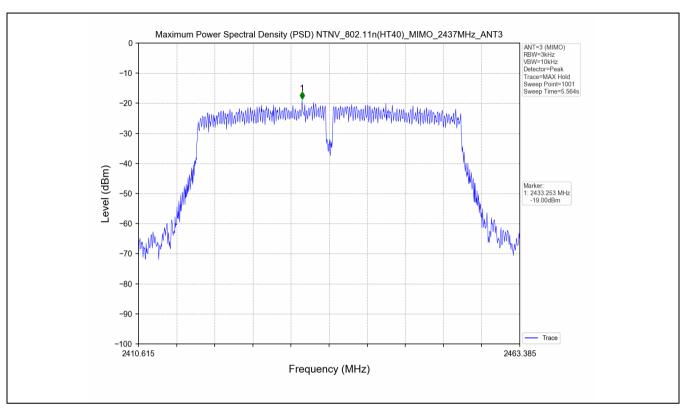
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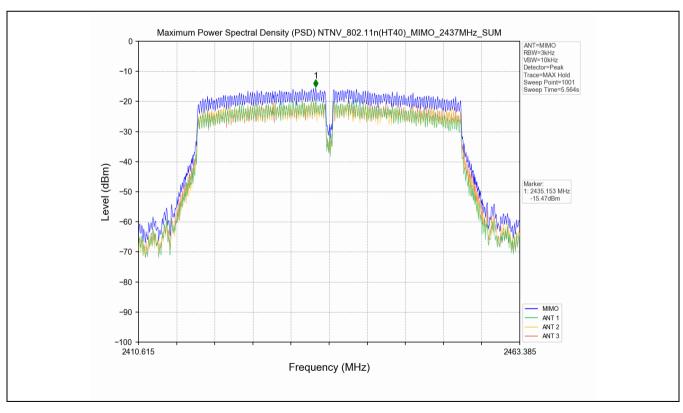
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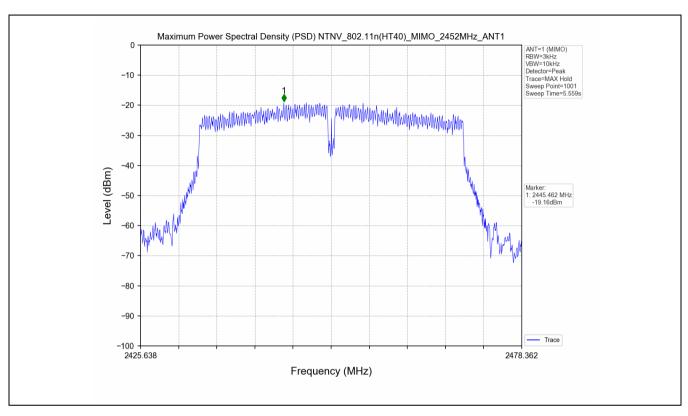
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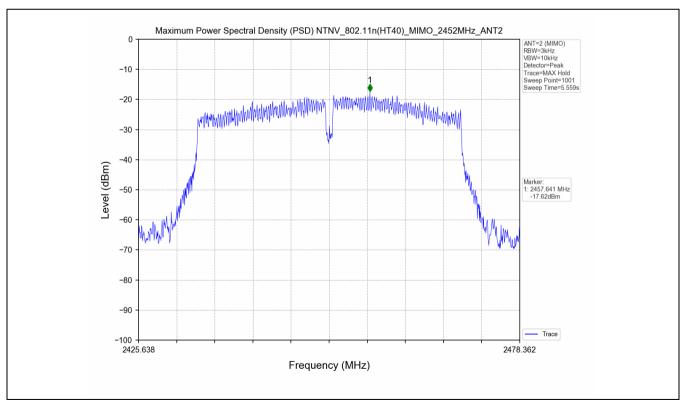
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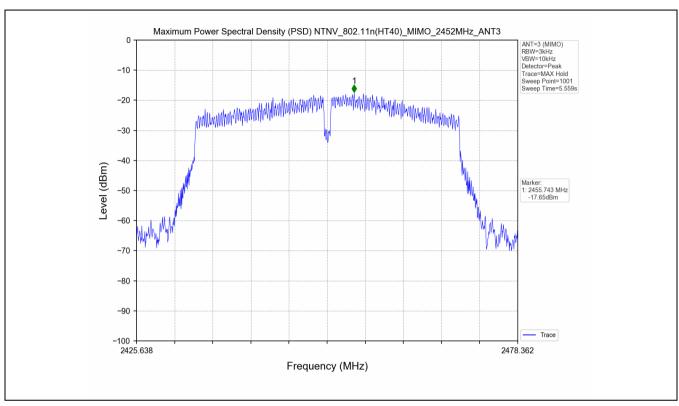
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5. Unwanted Emissions in Non-restricted Frequency Bands

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	-26.24	PASS
802.11b	2437	SISO	1	Refer to test graph	-26.24	PASS
	2462	SISO	1	Refer to test graph	-26.24	PASS
802.11g	2412	SISO	1	Refer to test graph	-28.92	PASS
	2437	SISO	1	Refer to test graph	-28.92	PASS
	2462	SISO	1	Refer to test graph	-28.92	PASS
802.11n(HT20)	2412	MIMO	MIMO	Refer to test graph	-28.52	PASS
	2437	MIMO	MIMO	Refer to test graph	-28.52	PASS
	2462	MIMO	MIMO	Refer to test graph	-28.52	PASS
802.11n(HT40)	2422	MIMO	MIMO	Refer to test graph	-32.26	PASS
	2437	MIMO	MIMO	Refer to test graph	-32.26	PASS
	2452	MIMO	MIMO	Refer to test graph	-32.26	PASS



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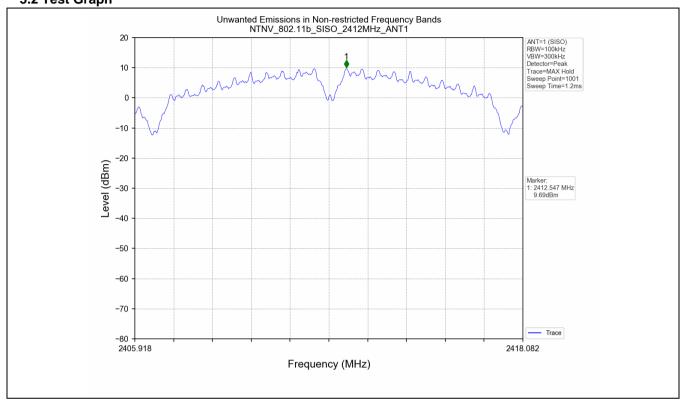
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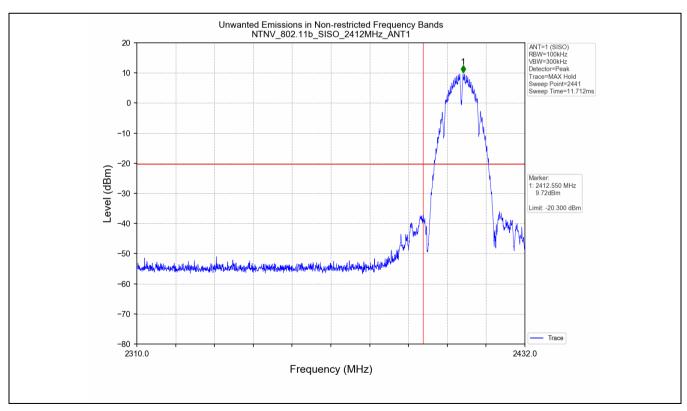


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5.2 Test Graph







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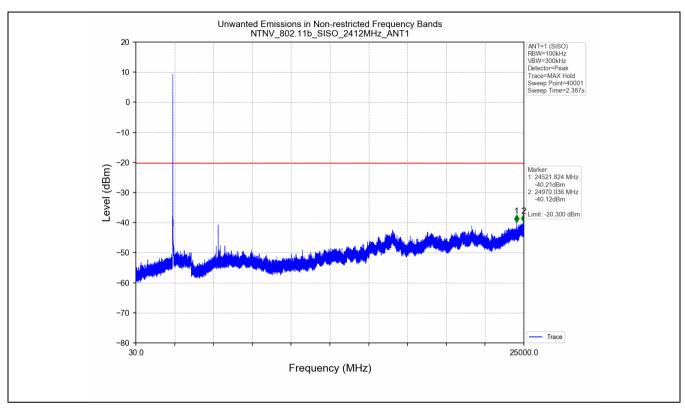
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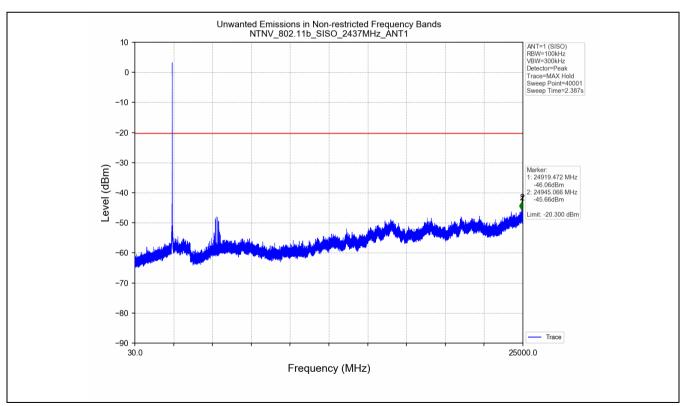
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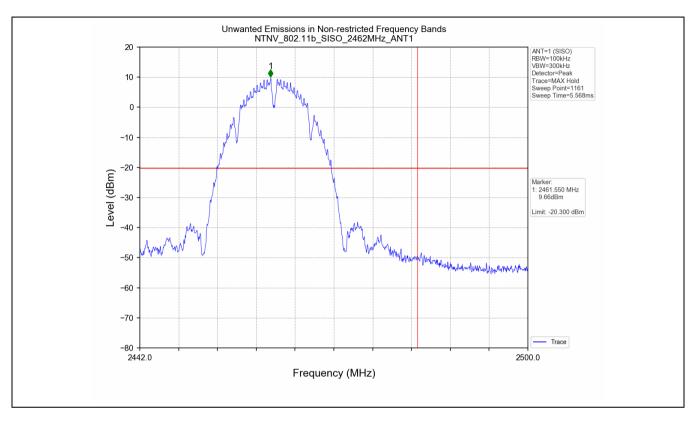
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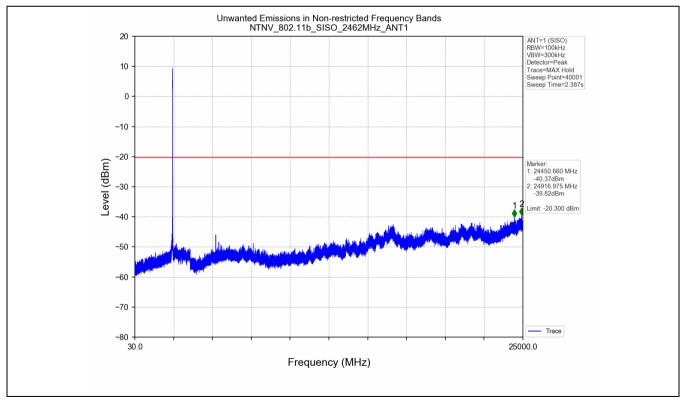
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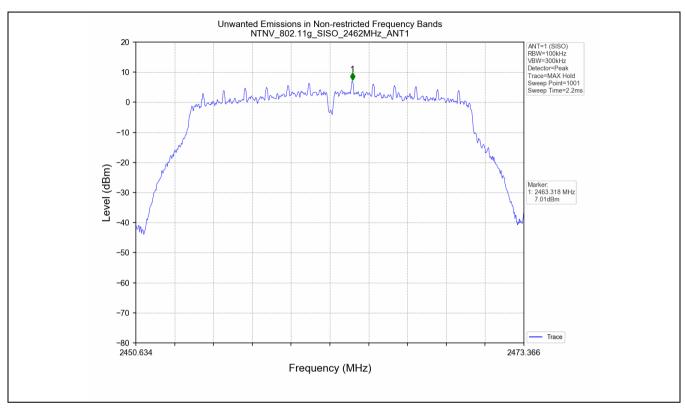
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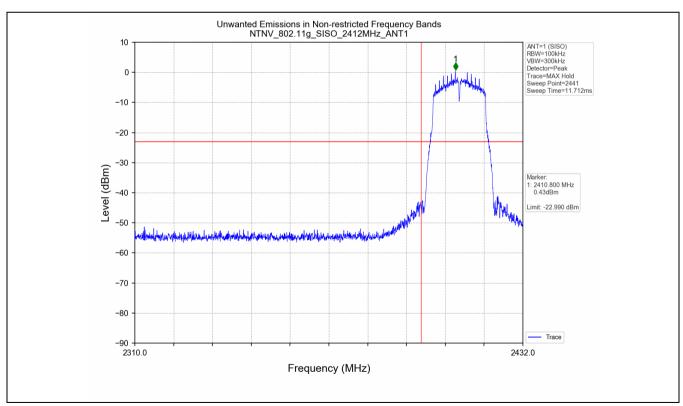
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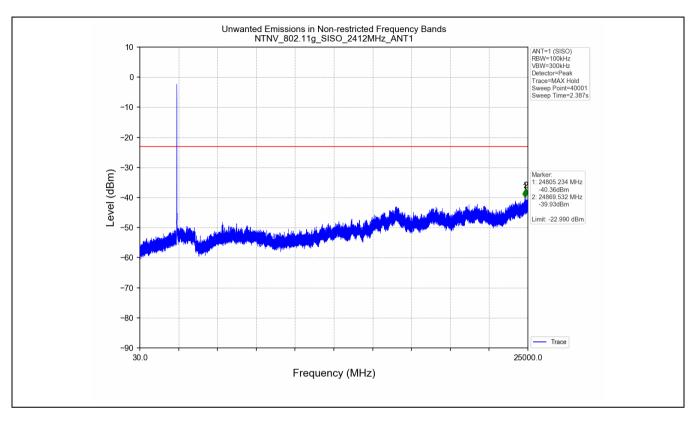
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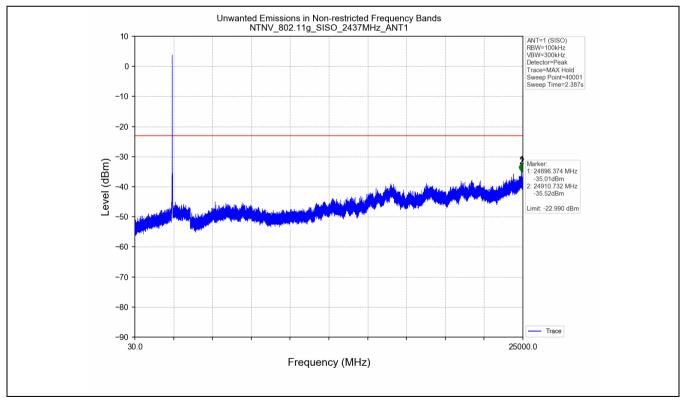
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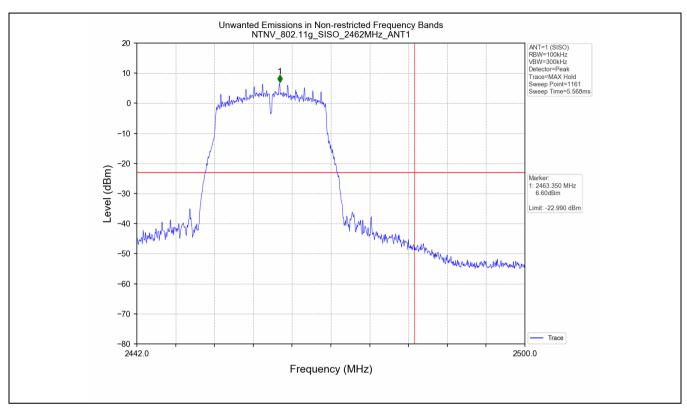
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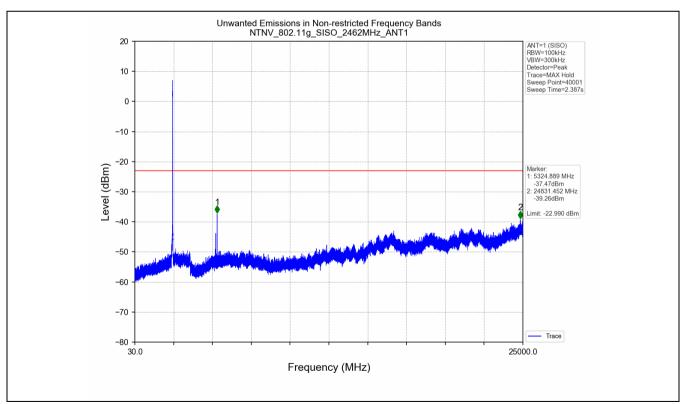
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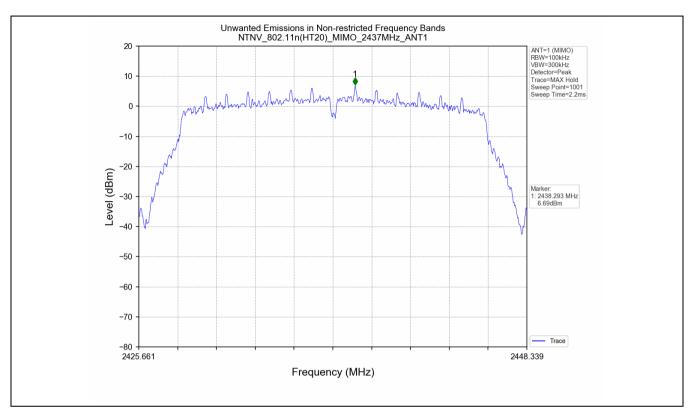
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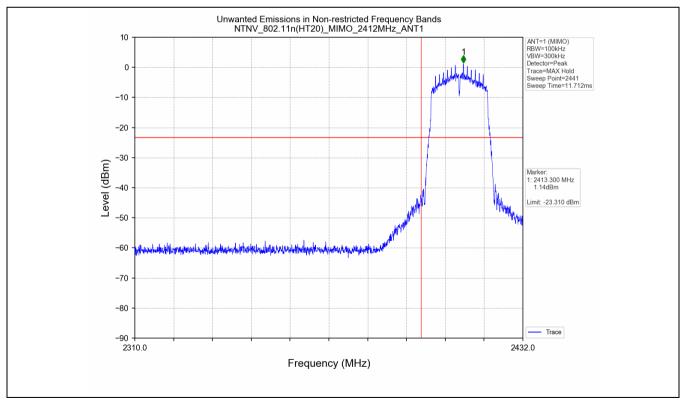
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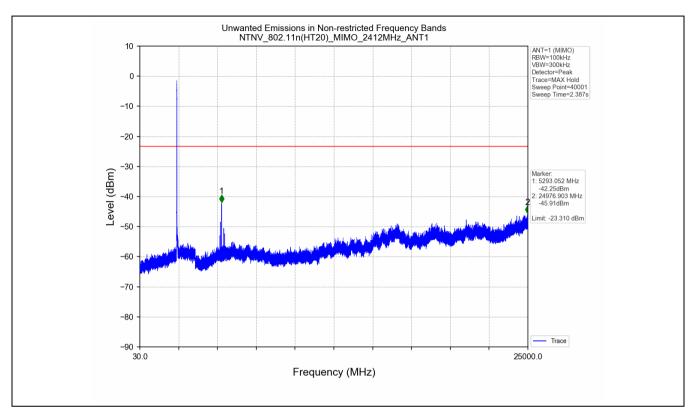
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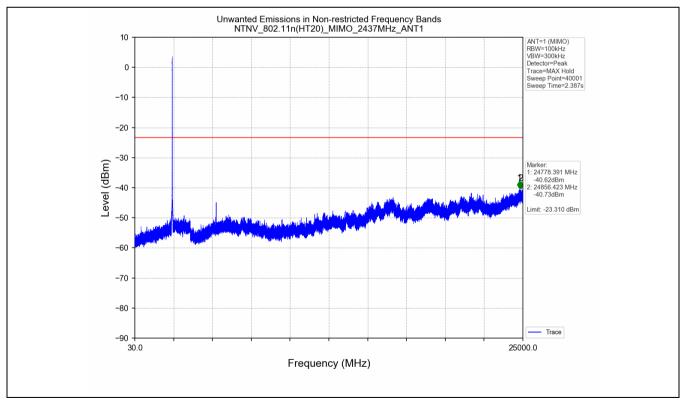
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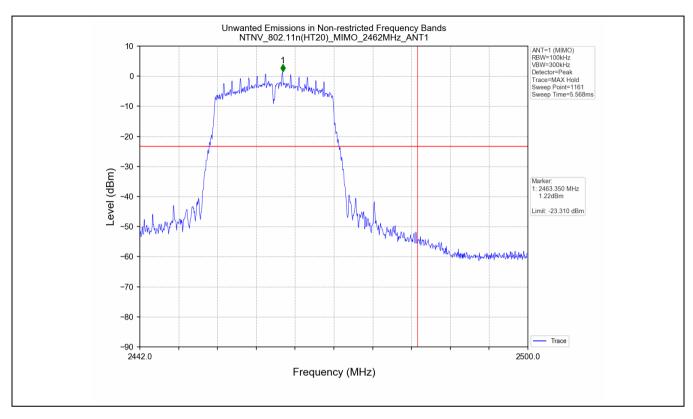
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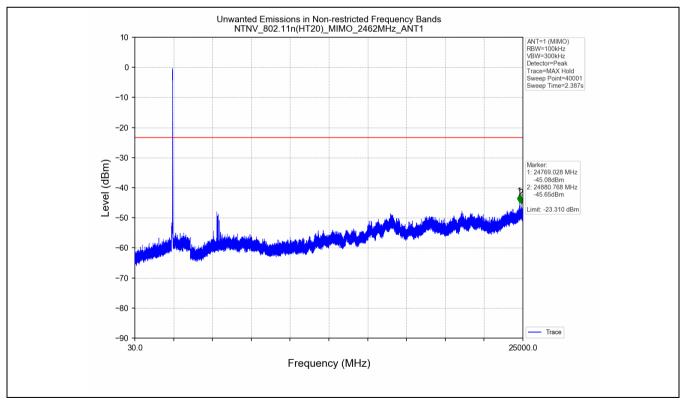
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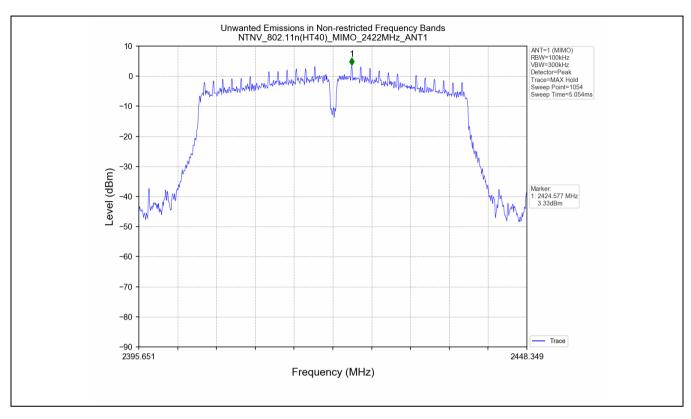
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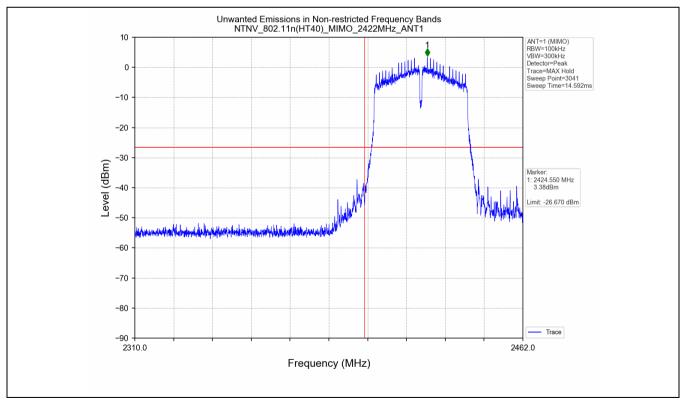
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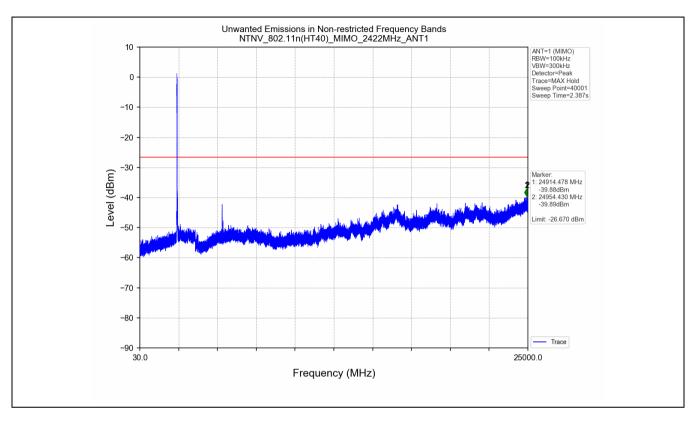
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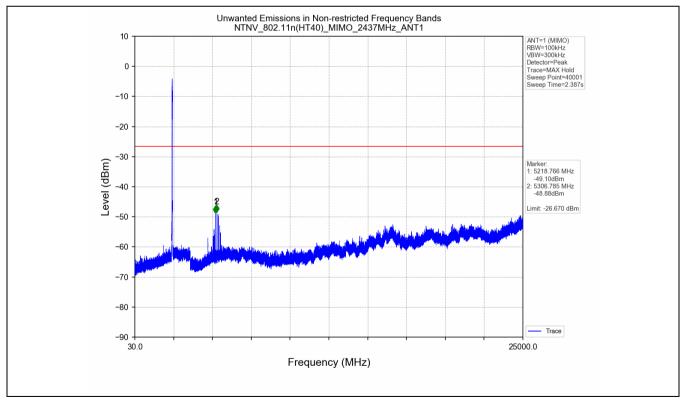
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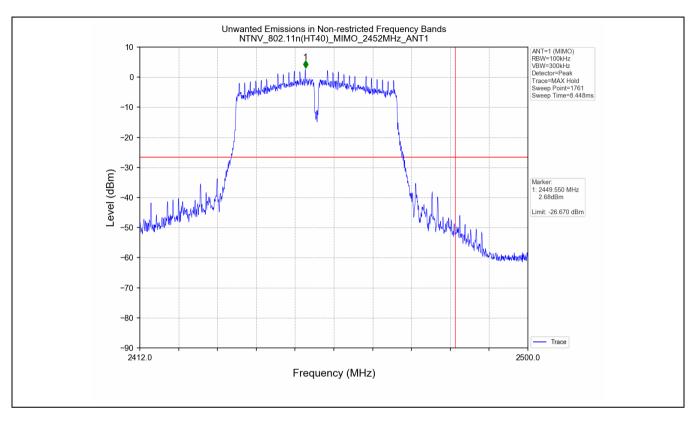
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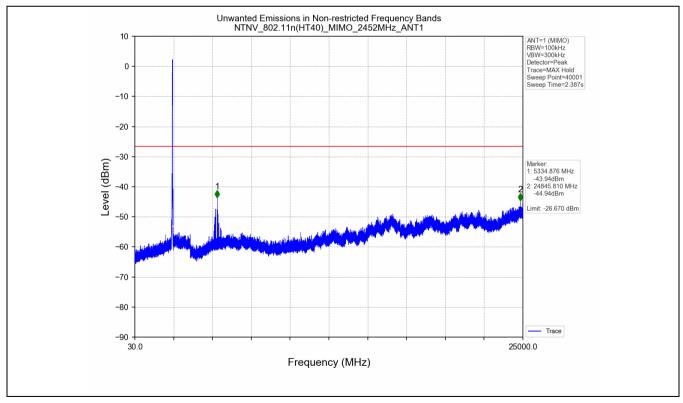
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10 Appendix for 15.247-MT7603EN Chip

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)
802.11b	2412	SISO	1	8.410	8.590	97.90	0.09
	2437	SISO	1	8.420	8.600	97.91	0.09
	2462	SISO	1	8.420	8.600	97.91	0.09
802.11g	2412	SISO	1	1.397	1.611	86.72	0.62
	2437	SISO	1	1.395	1.594	87.52	0.58
	2462	SISO	1	1.396	1.612	86.60	0.62
802.11n(HT20)	2412	MIMO	1	1.279	1.471	86.95	0.61
	2437	MIMO	1	1.280	1.481	86.43	0.63
	2462	MIMO	1	1.280	1.480	86.49	0.63
802.11n(HT40)	2422	MIMO	1	0.636	0.849	74.91	1.25
	2437	MIMO	1	0.636	0.814	78.13	1.07
	2452	MIMO	1	0.636	0.850	74.82	1.26



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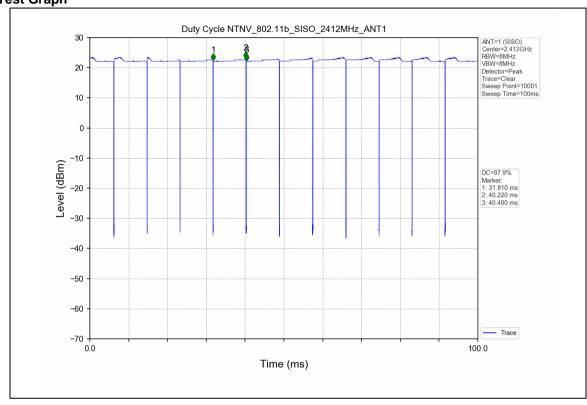
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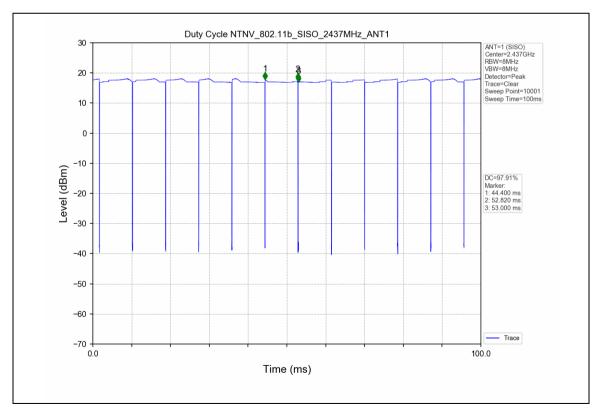


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1.2 Test Graph







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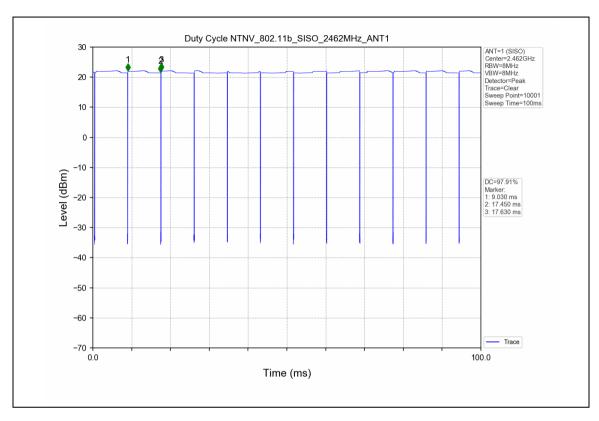
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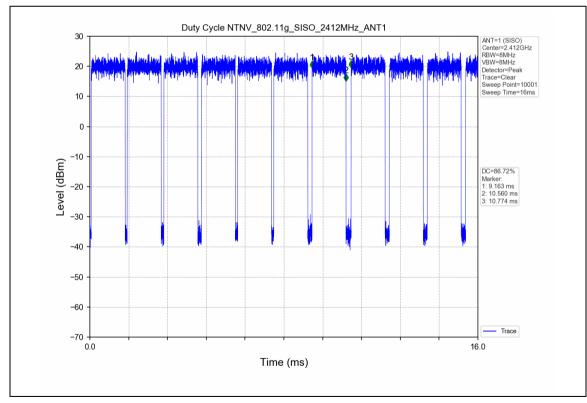
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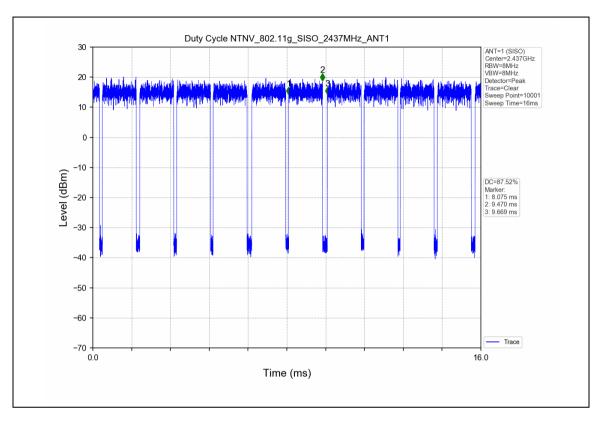
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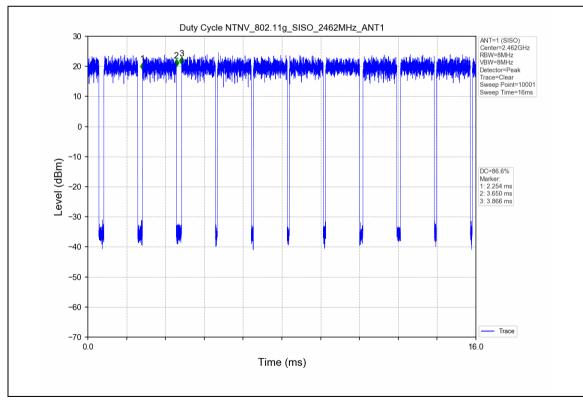
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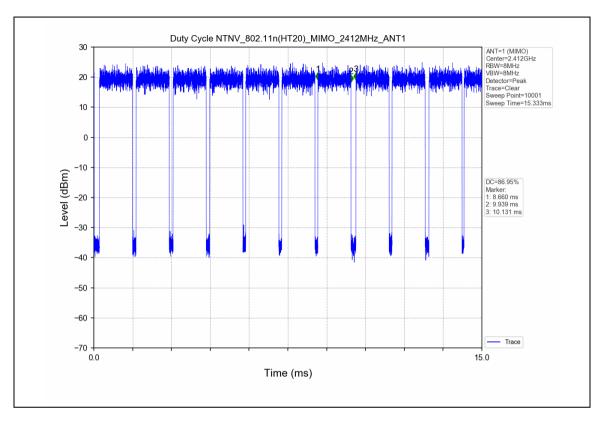
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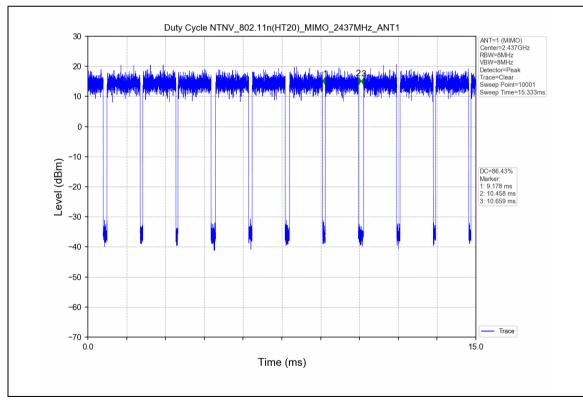
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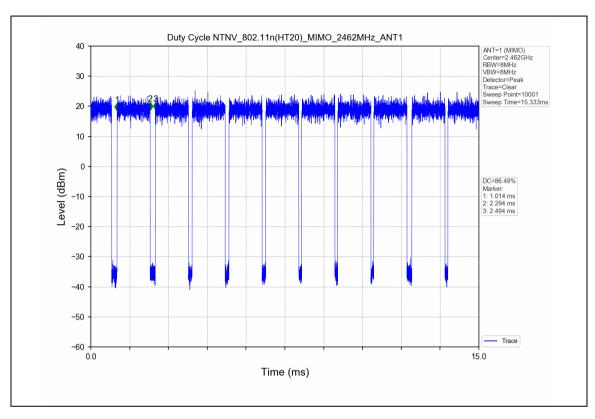
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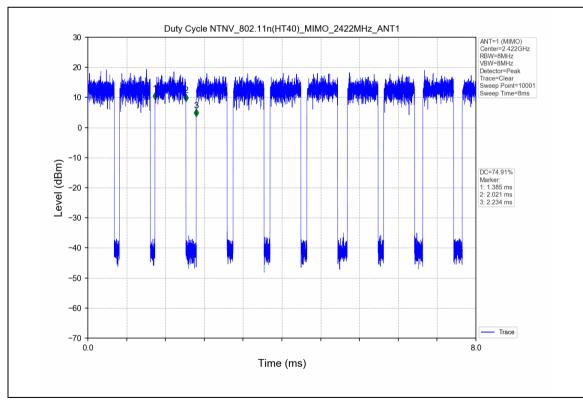
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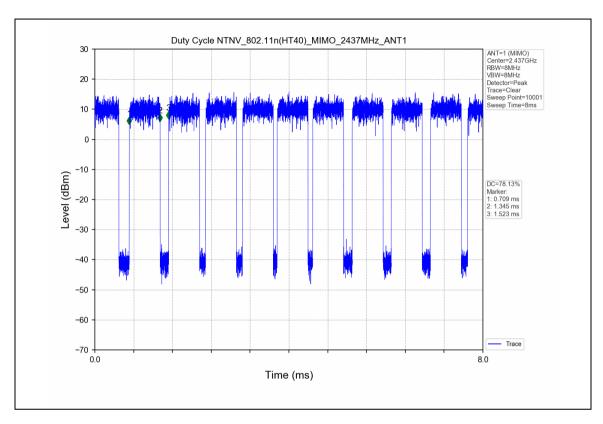
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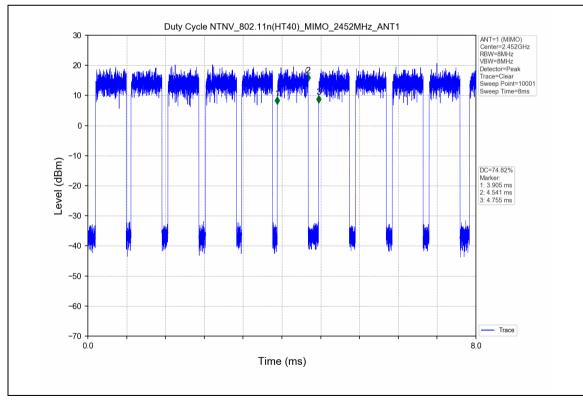
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2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	6dB Bandwidth		Mandiat
				Test Result (MHz)	Limits (MHz)	Verdict
802.11b	2412	SISO	1	9.083	≥0.5	PASS
	2437	SISO	1	9.637	≥0.5	PASS
	2462	SISO	1	9.120	≥0.5	PASS
802.11g	2412	SISO	1	13.838	≥0.5	PASS
	2437	SISO	1	15.694	≥0.5	PASS
	2462	SISO	1	14.476	≥0.5	PASS
802.11n(HT20)	2412	MIMO	1	13.805	≥0.5	PASS
	2437	MIMO	1	16.333	≥0.5	PASS
	2462	MIMO	1	13.829	≥0.5	PASS
802.11n(HT40)	2422	MIMO	1	22.619	≥0.5	PASS
	2437	MIMO	1	35.448	≥0.5	PASS
	2452	MIMO	1	15.157	≥0.5	PASS



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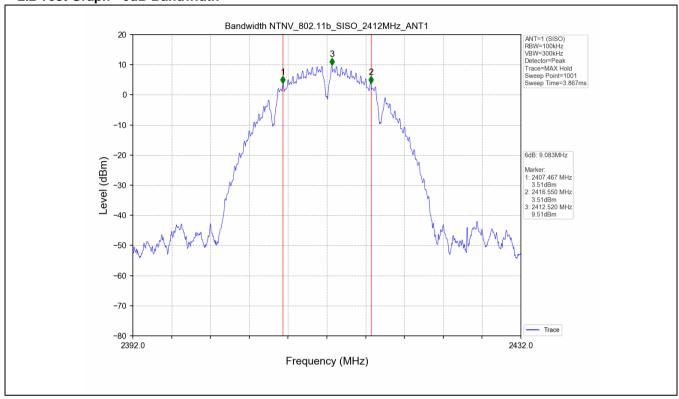
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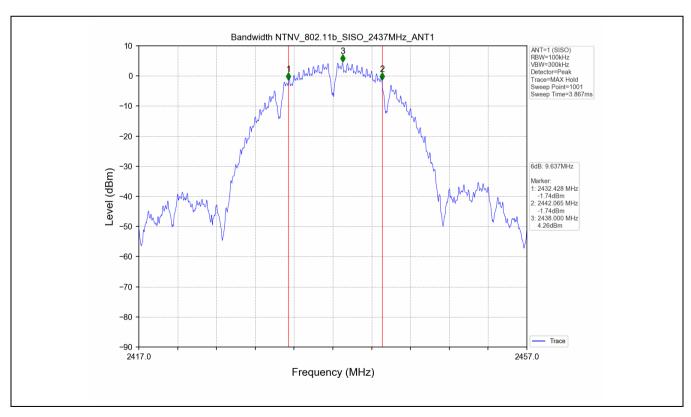


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2.2 Test Graph - 6dB Bandwidth







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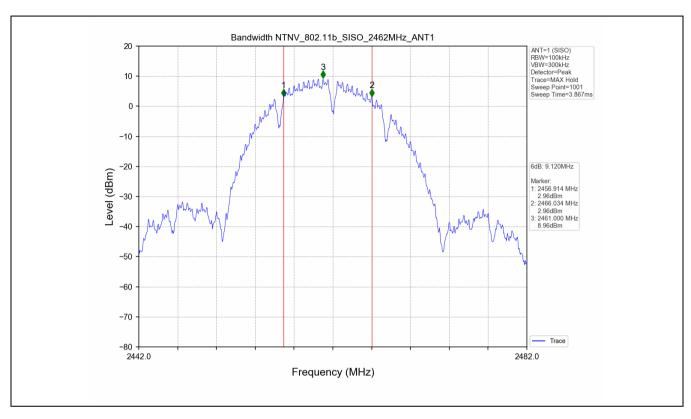
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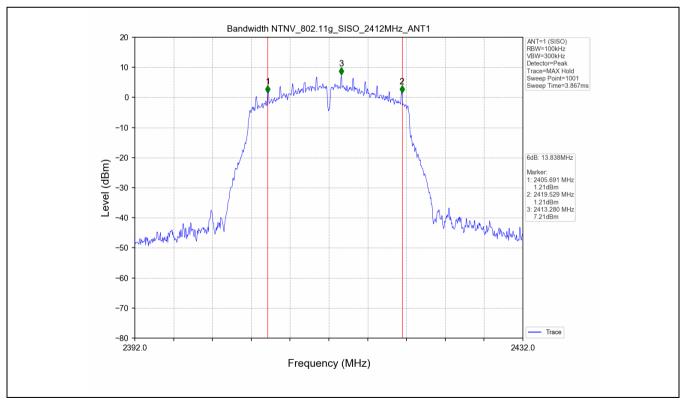
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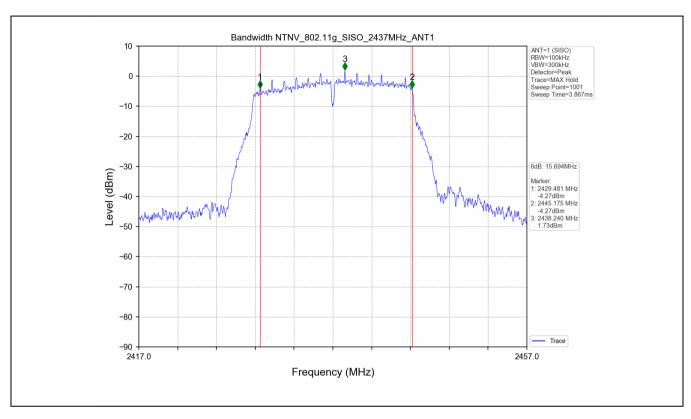
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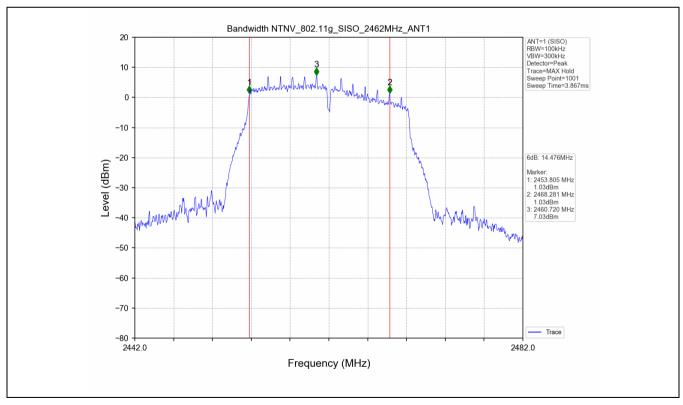
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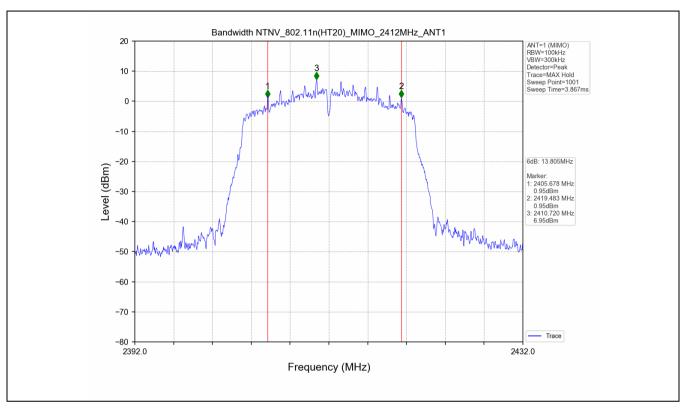
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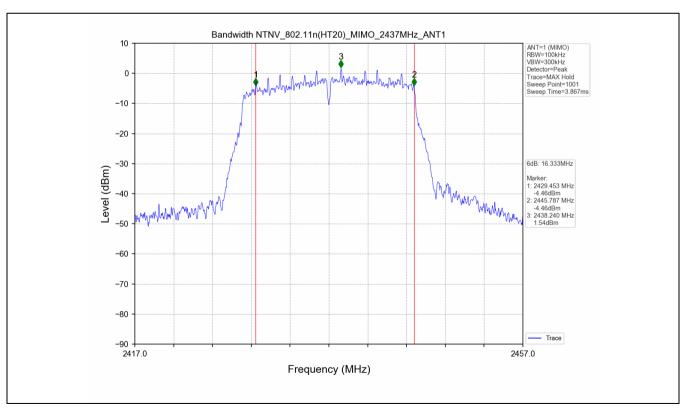
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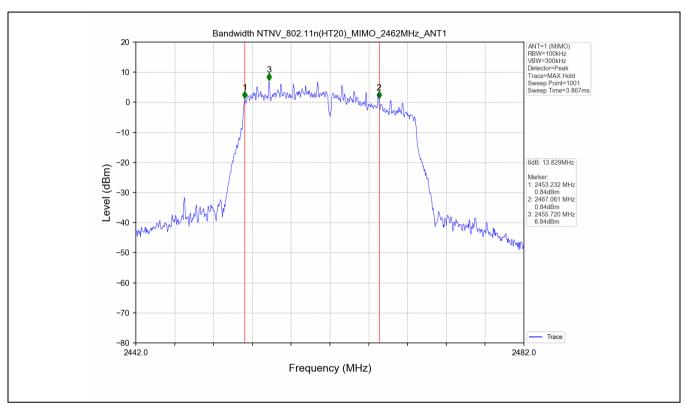
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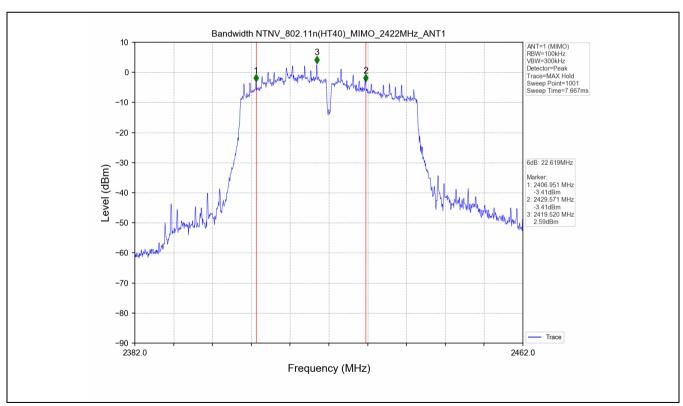
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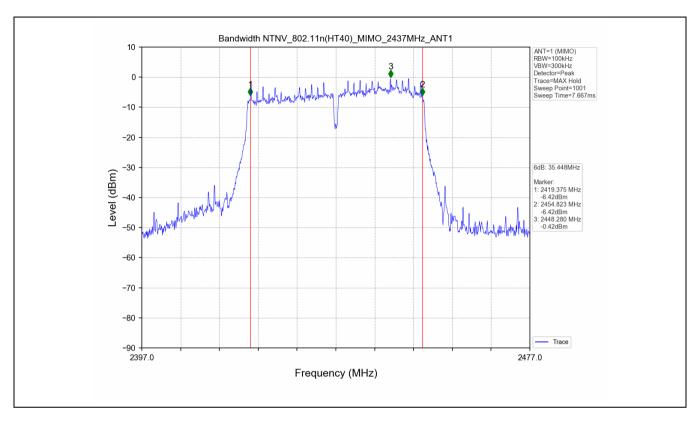
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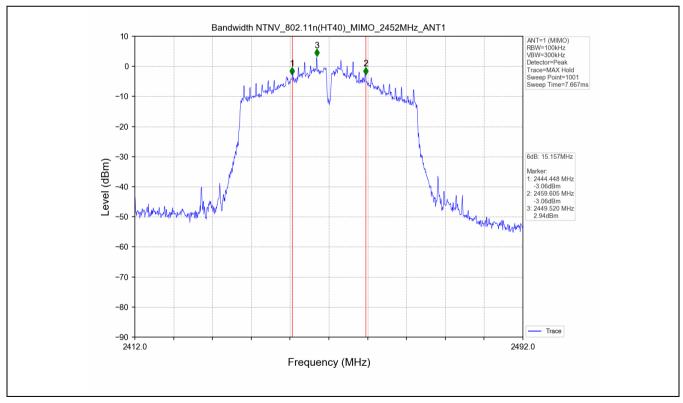
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