

11 Appendix

Appendix for 15.247

1. Duty Cycle

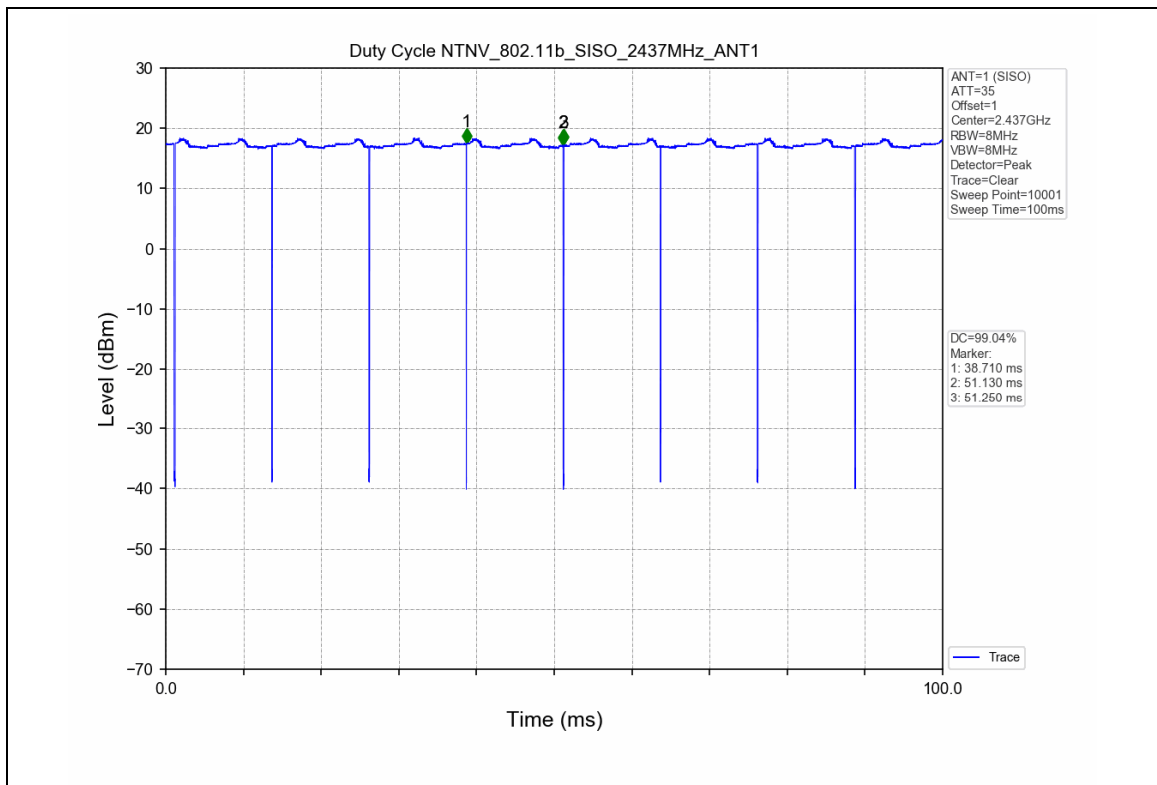
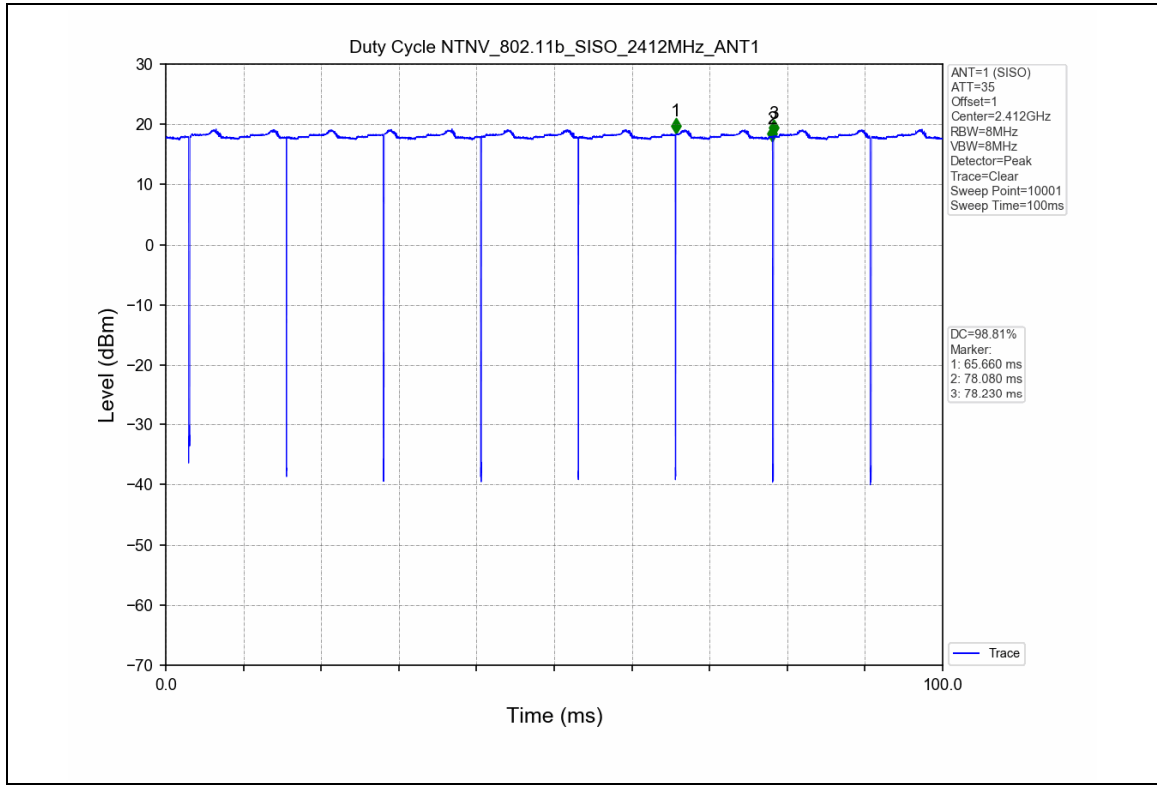
1.1 Test Result

Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.420	12.570	98.81	0.05
	2437	SISO	1	12.420	12.540	99.04	0.04
	2462	SISO	1	12.420	12.590	98.65	0.06
802.11g	2412	SISO	1	2.038	2.190	93.06	0.31
	2437	SISO	1	2.036	2.195	92.76	0.33
	2462	SISO	1	2.036	2.185	93.18	0.31
802.11n(HT20)	2412	SISO	1	1.890	2.050	92.20	0.35
	2437	SISO	1	1.896	2.067	91.73	0.37
	2462	SISO	1	1.890	2.058	91.84	0.37
802.11n(HT40)	2422	SISO	1	0.943	1.184	79.65	0.99
	2437	SISO	1	0.922	1.162	79.35	1.00
	2452	SISO	1	0.944	1.184	79.73	0.98



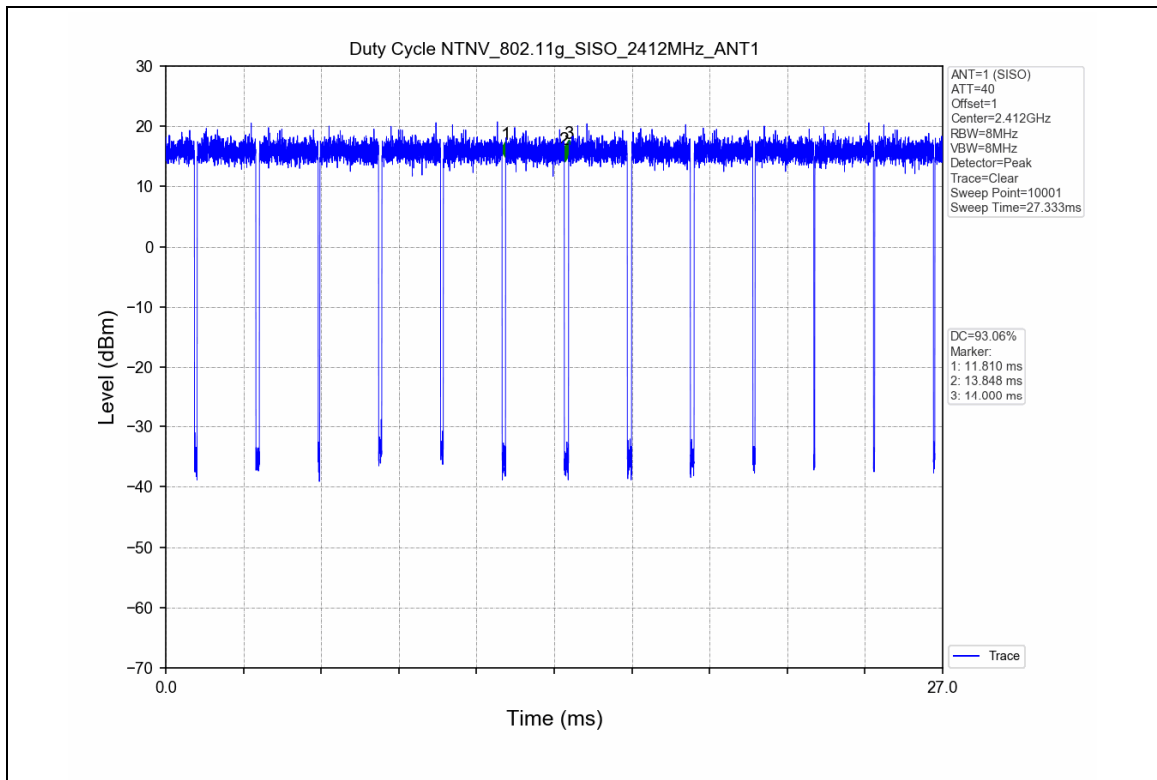
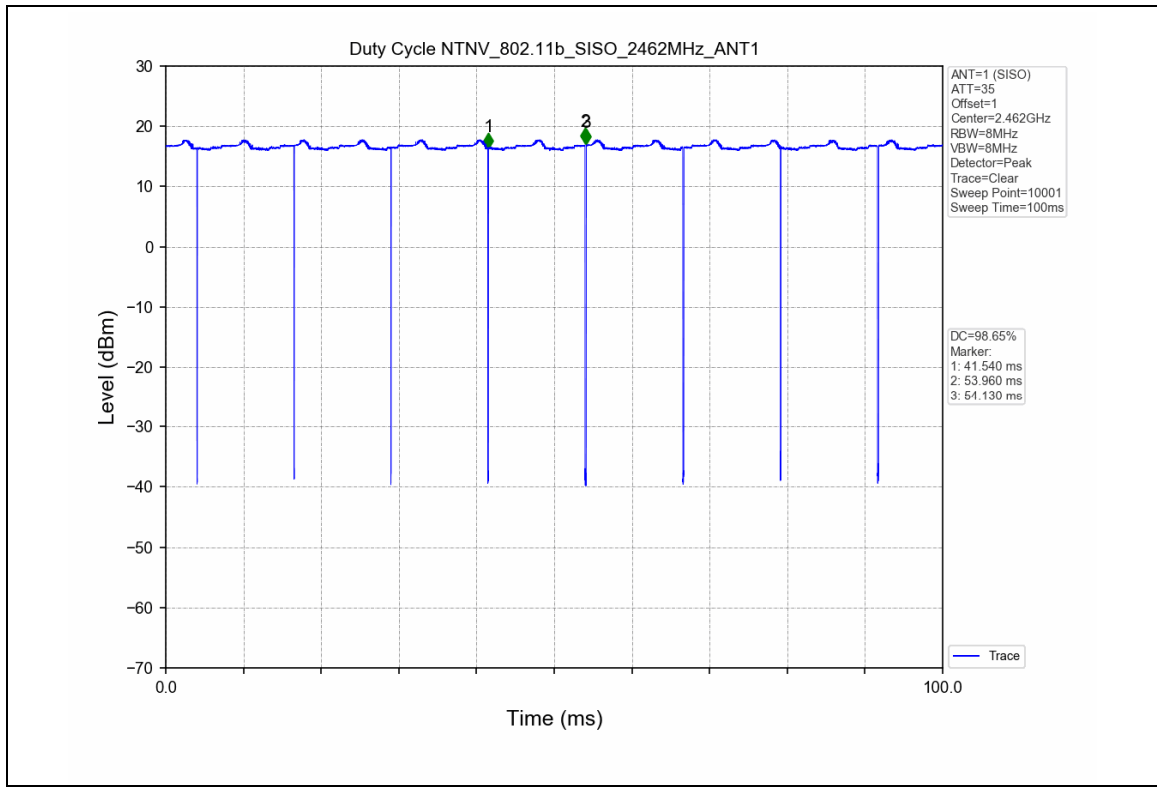
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1.2 Test Graph



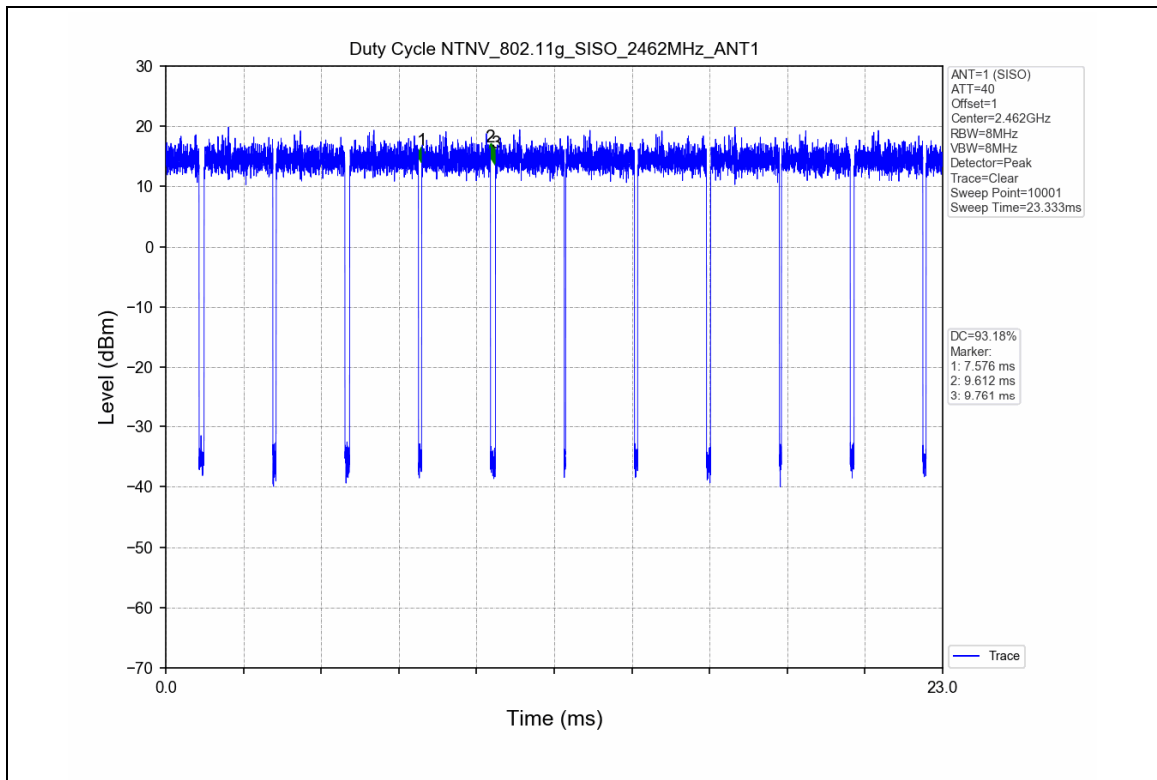
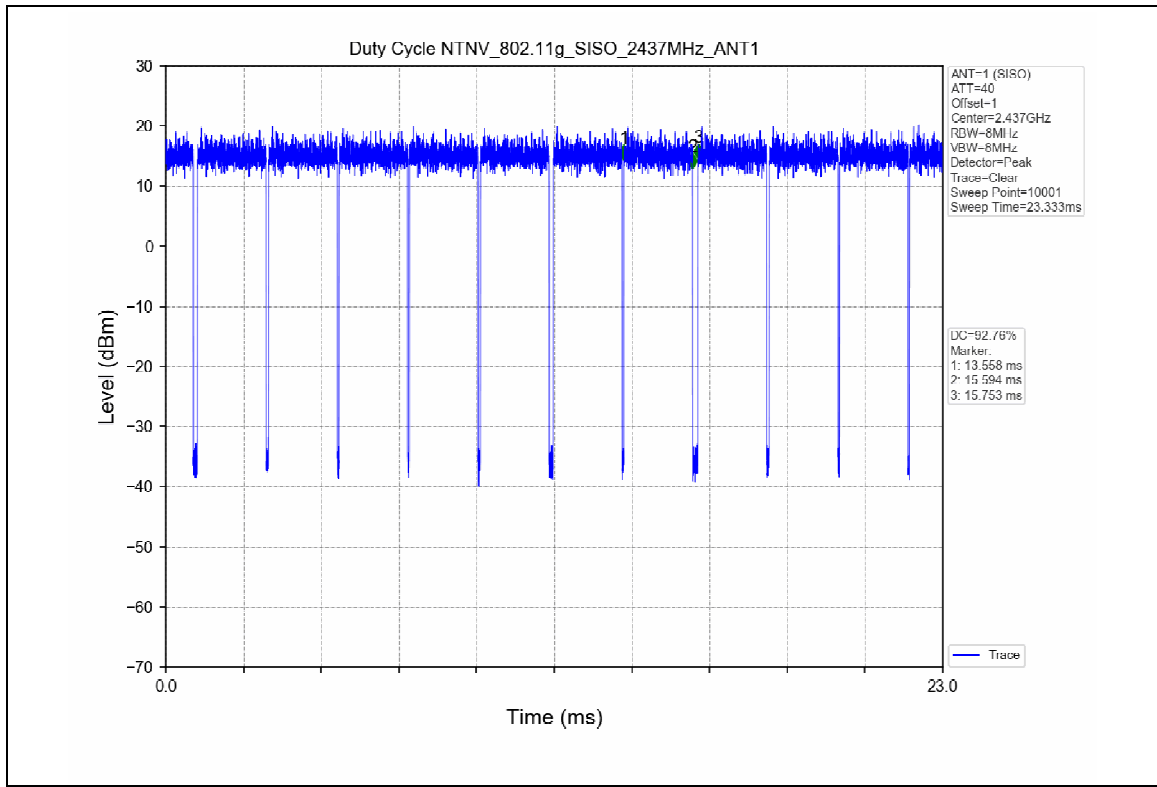
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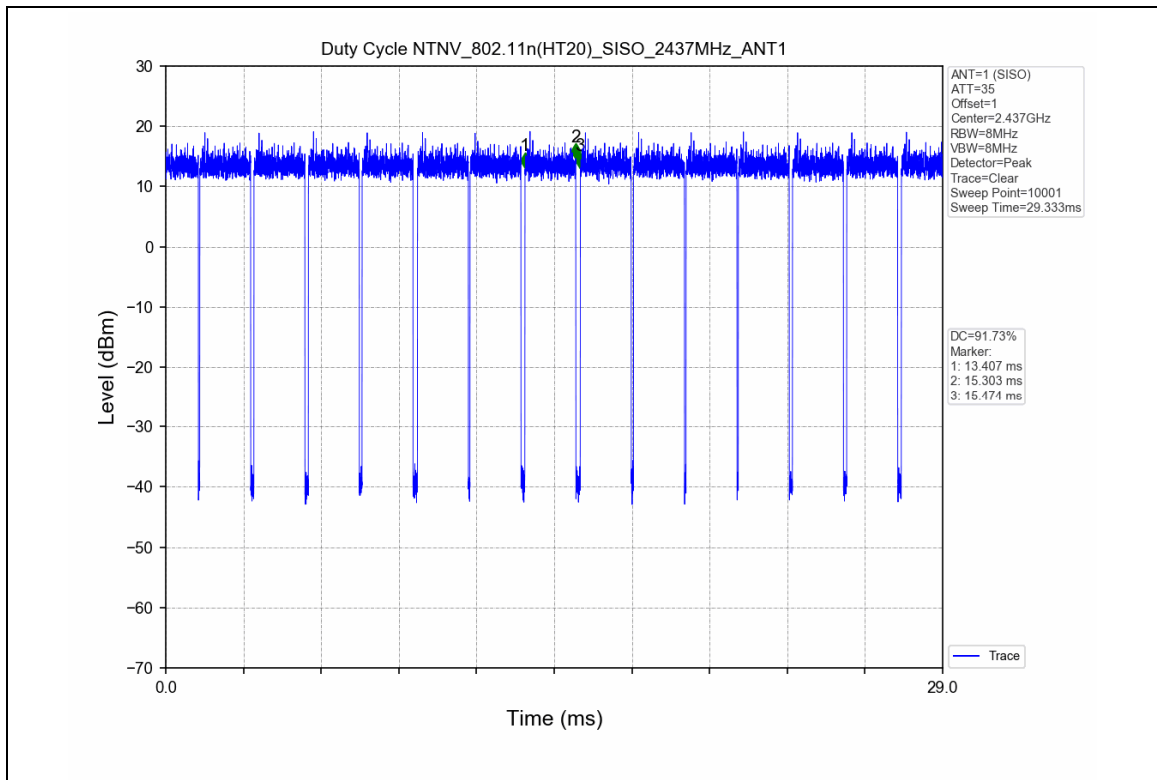
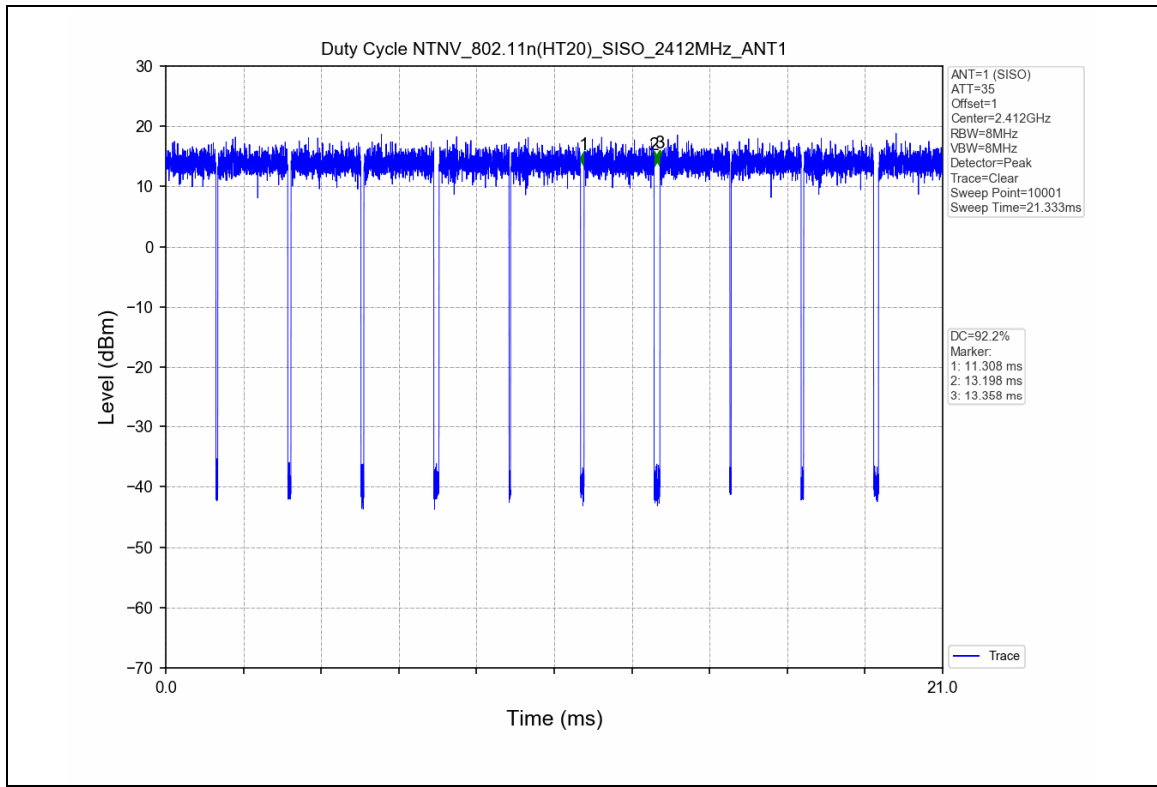


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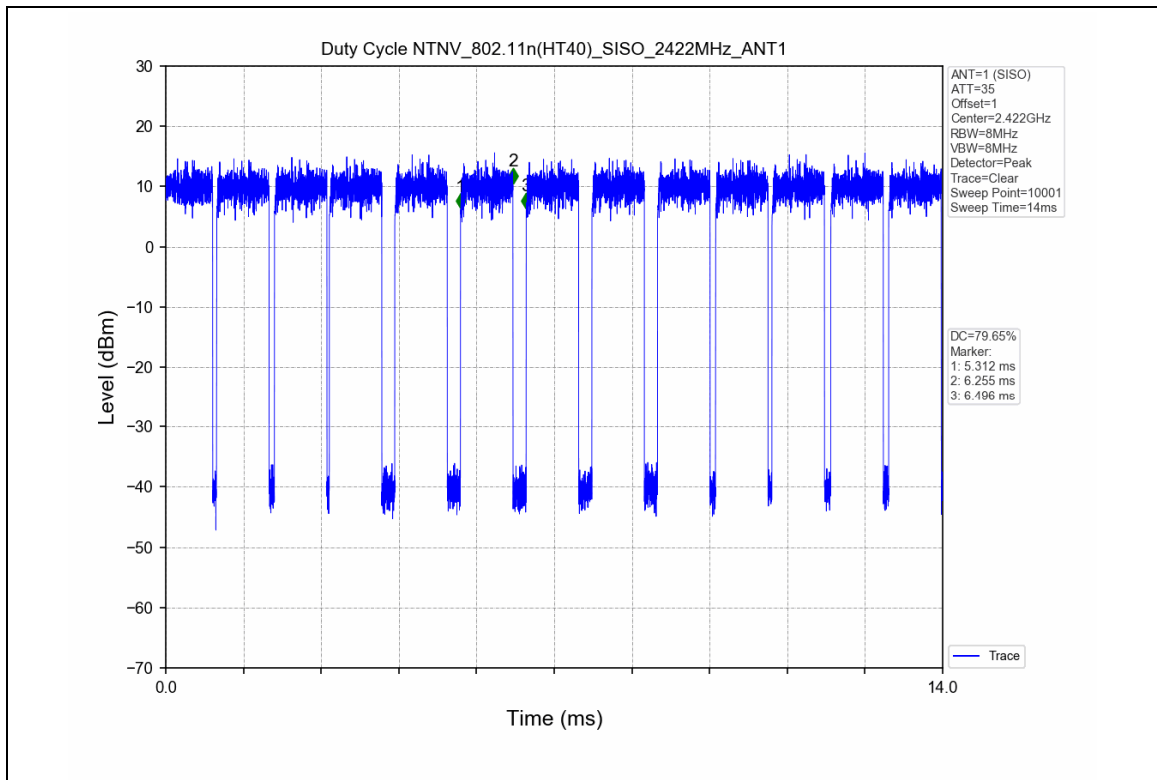
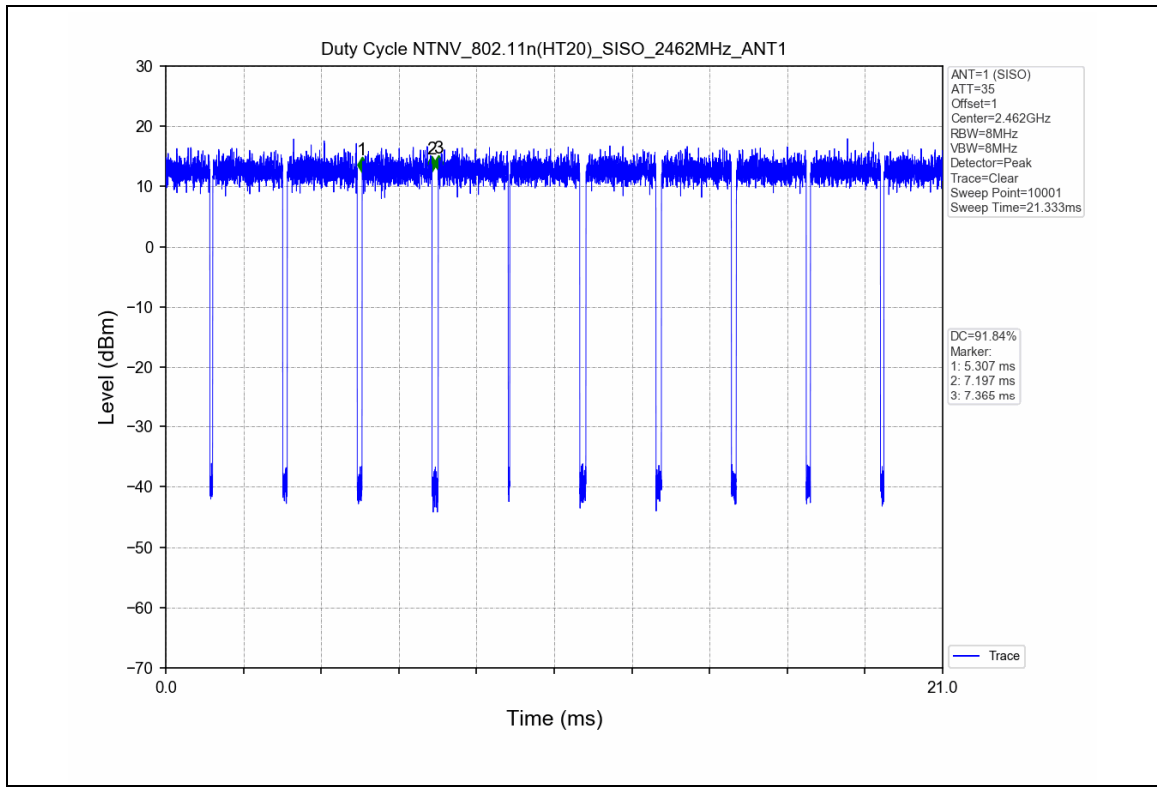


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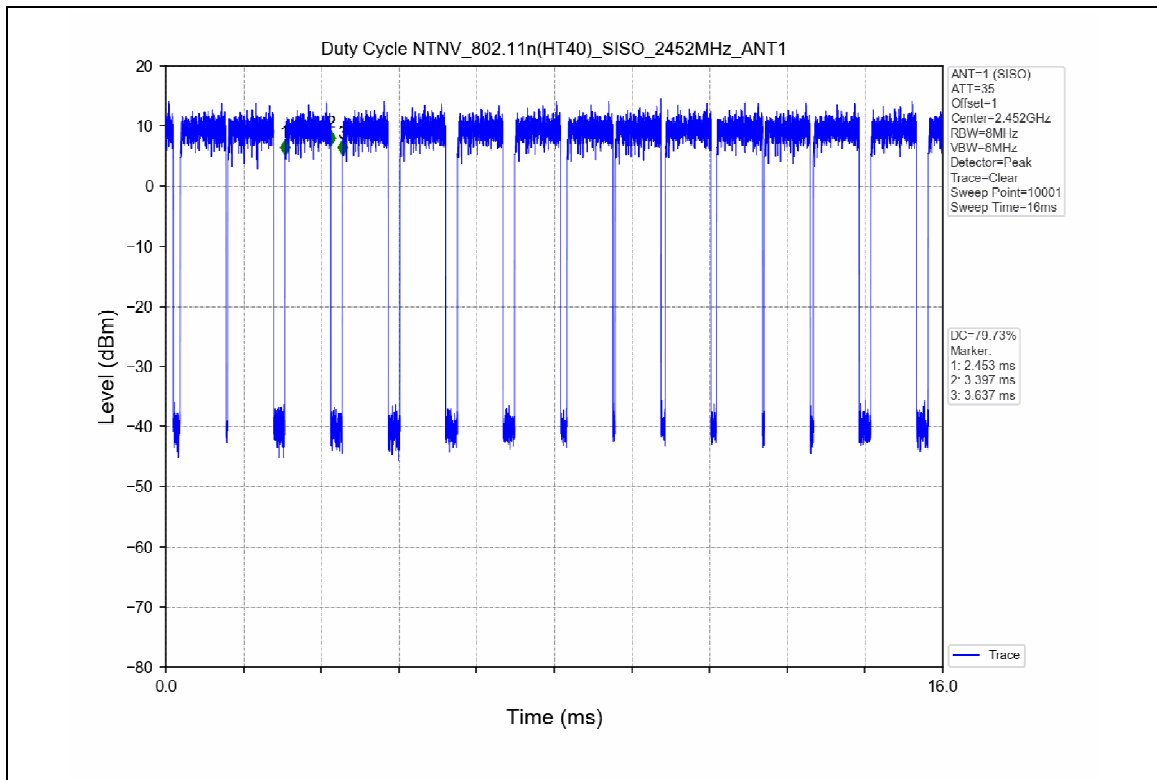
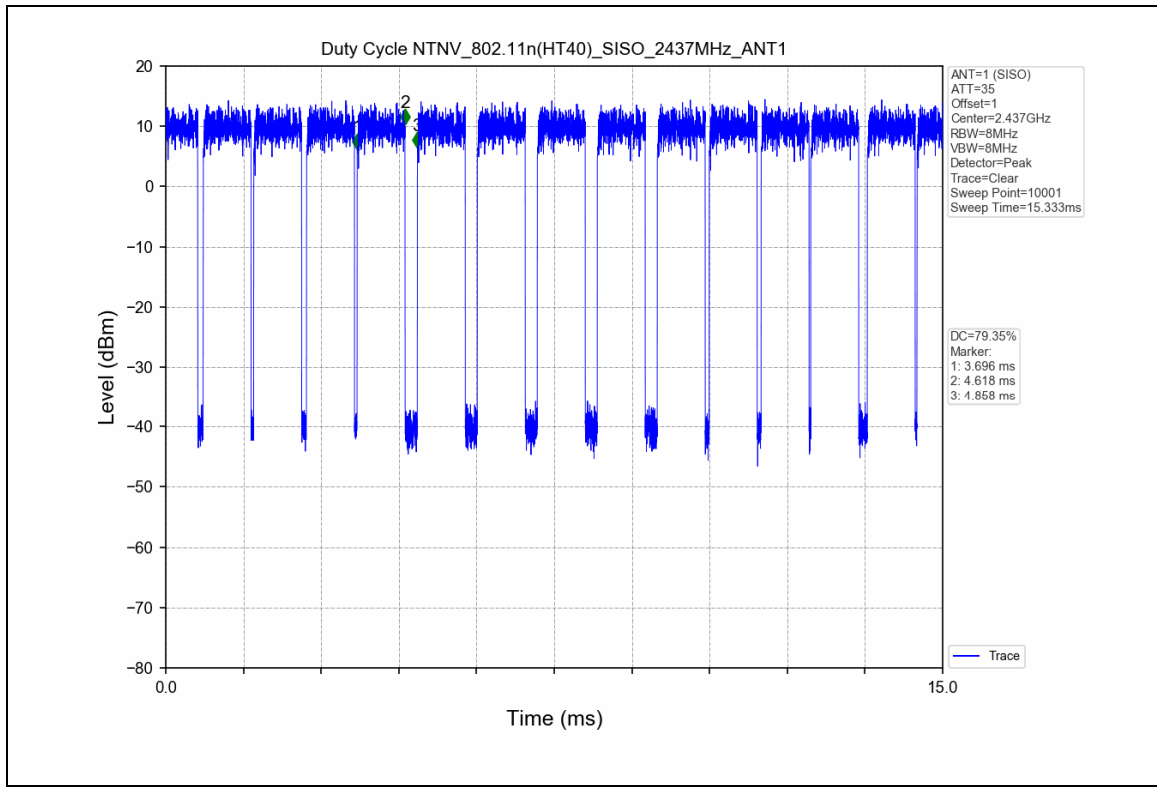
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2. Bandwidth

2.1 Test Result

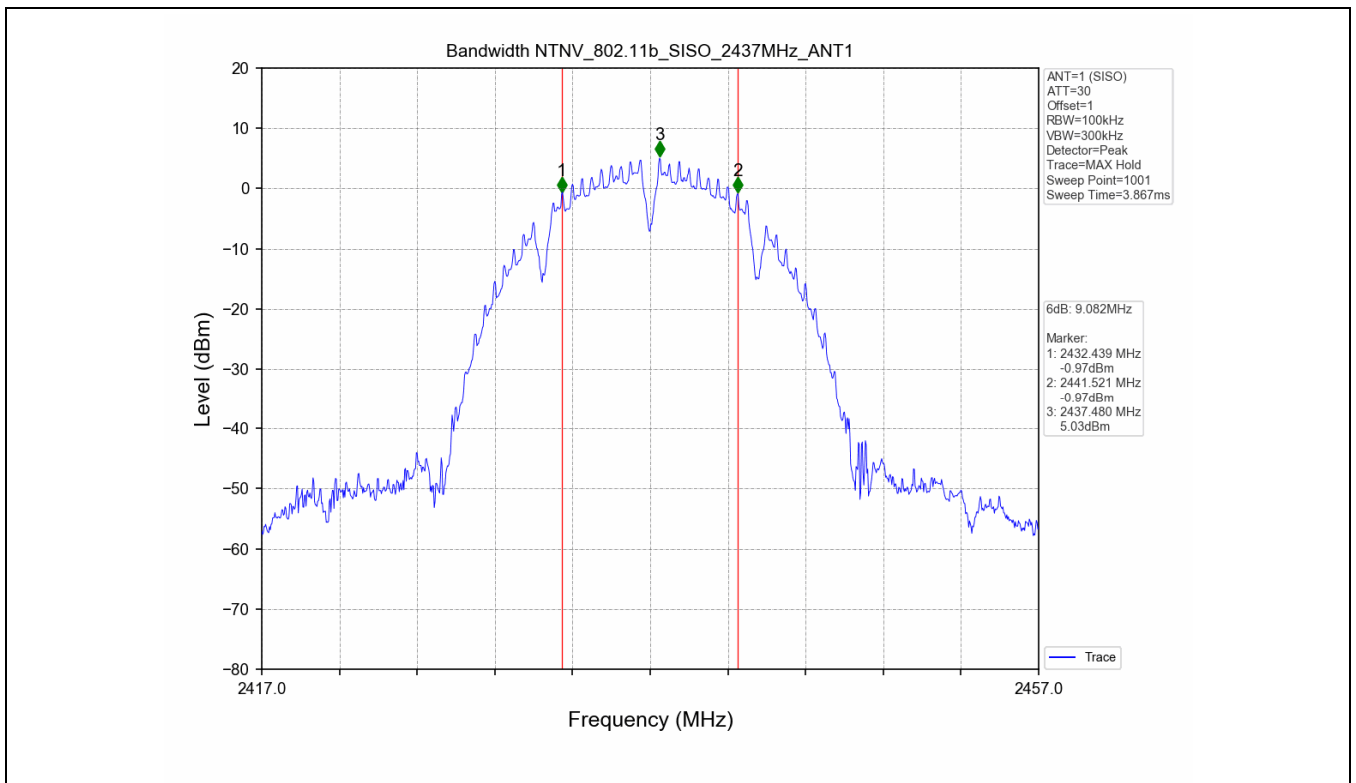
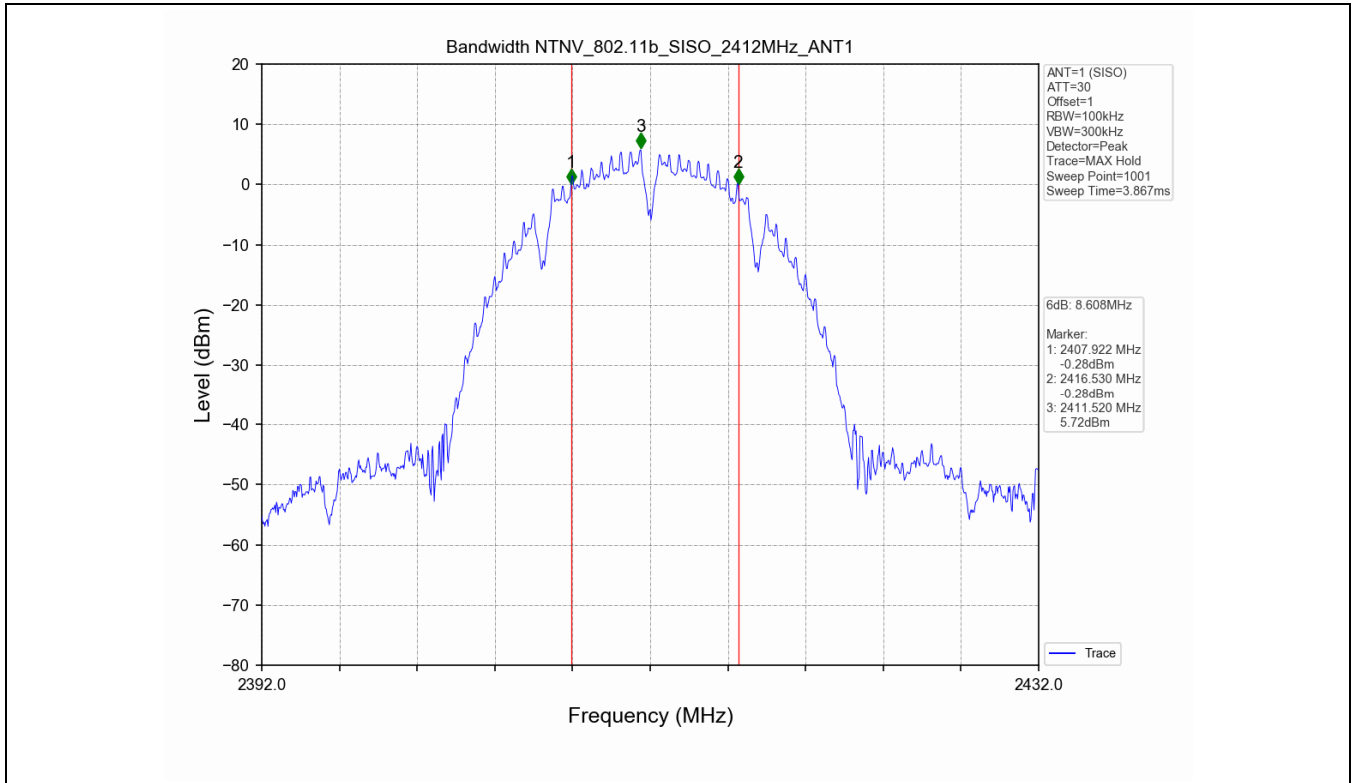
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	8.608	≥0.5	PASS
	2437	SISO	1	9.082	≥0.5	PASS
	2462	SISO	1	9.019	≥0.5	PASS
802.11g	2412	SISO	1	16.388	≥0.5	PASS
	2437	SISO	1	16.392	≥0.5	PASS
	2462	SISO	1	16.410	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.567	≥0.5	PASS
	2437	SISO	1	17.579	≥0.5	PASS
	2462	SISO	1	17.566	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	35.594	≥0.5	PASS
	2437	SISO	1	35.587	≥0.5	PASS
	2452	SISO	1	35.760	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	13.511	Only for Report Use
	2437	SISO	1	13.508	Only for Report Use
	2462	SISO	1	13.473	Only for Report Use
802.11g	2412	SISO	1	16.846	Only for Report Use
	2437	SISO	1	16.850	Only for Report Use
	2462	SISO	1	16.935	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.869	Only for Report Use
	2437	SISO	1	17.858	Only for Report Use
	2462	SISO	1	17.838	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.503	Only for Report Use
	2437	SISO	1	36.663	Only for Report Use
	2452	SISO	1	36.640	Only for Report Use



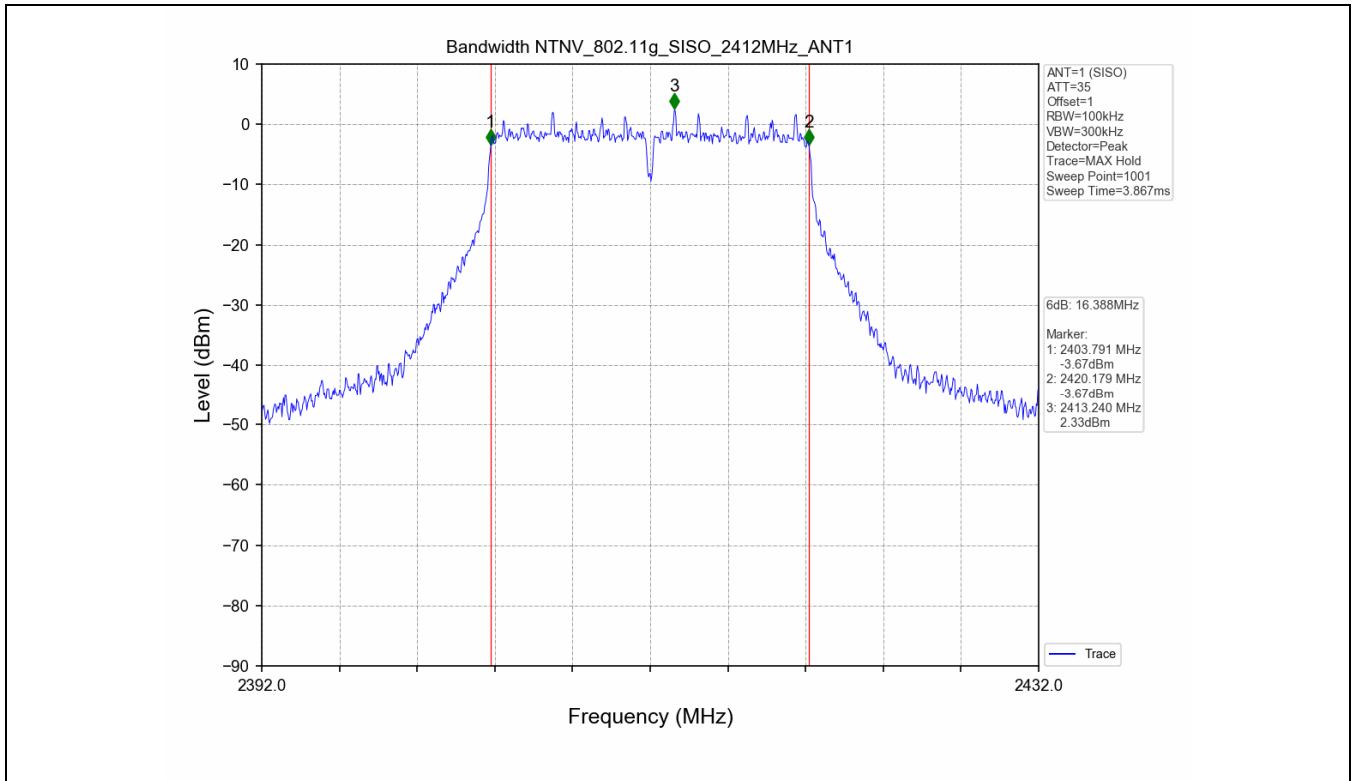
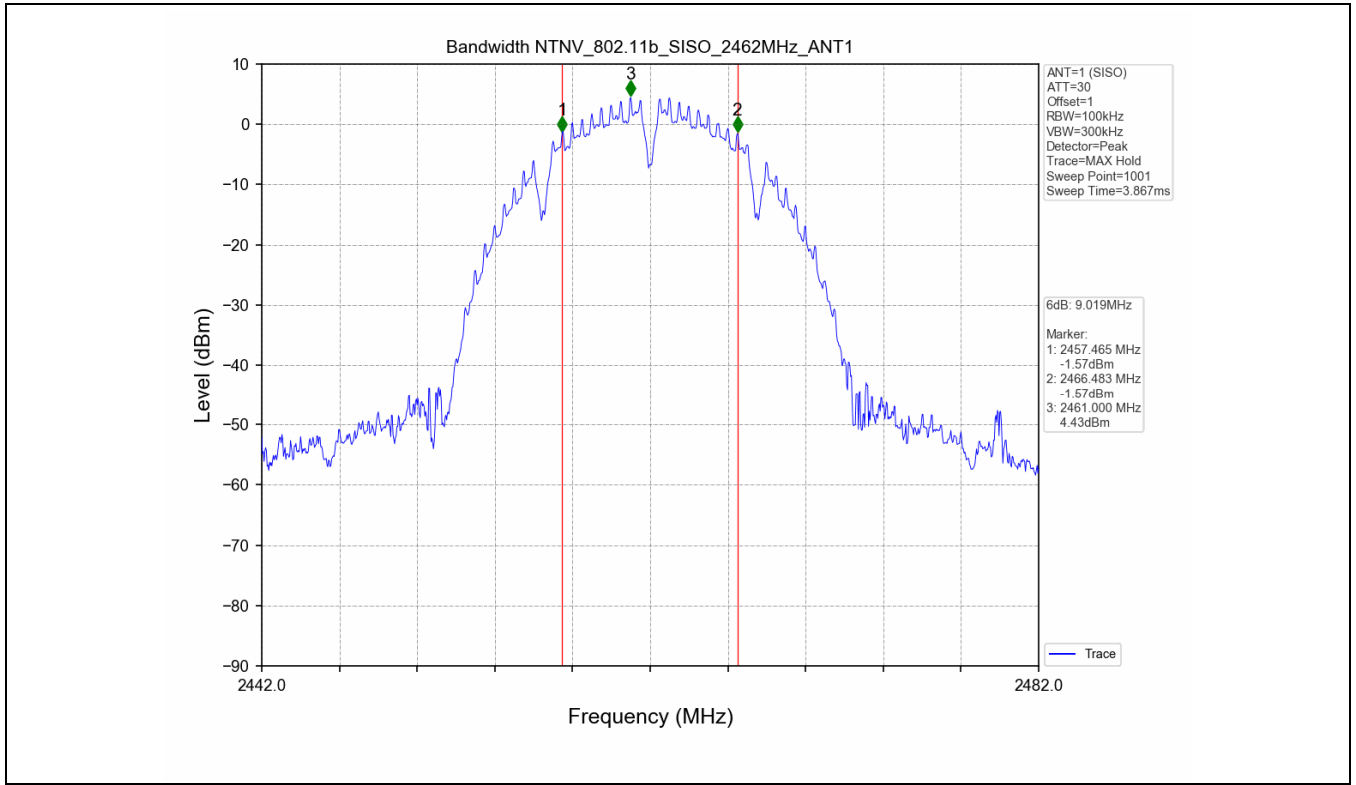
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2.2 Test Graph - 6dB Bandwidth



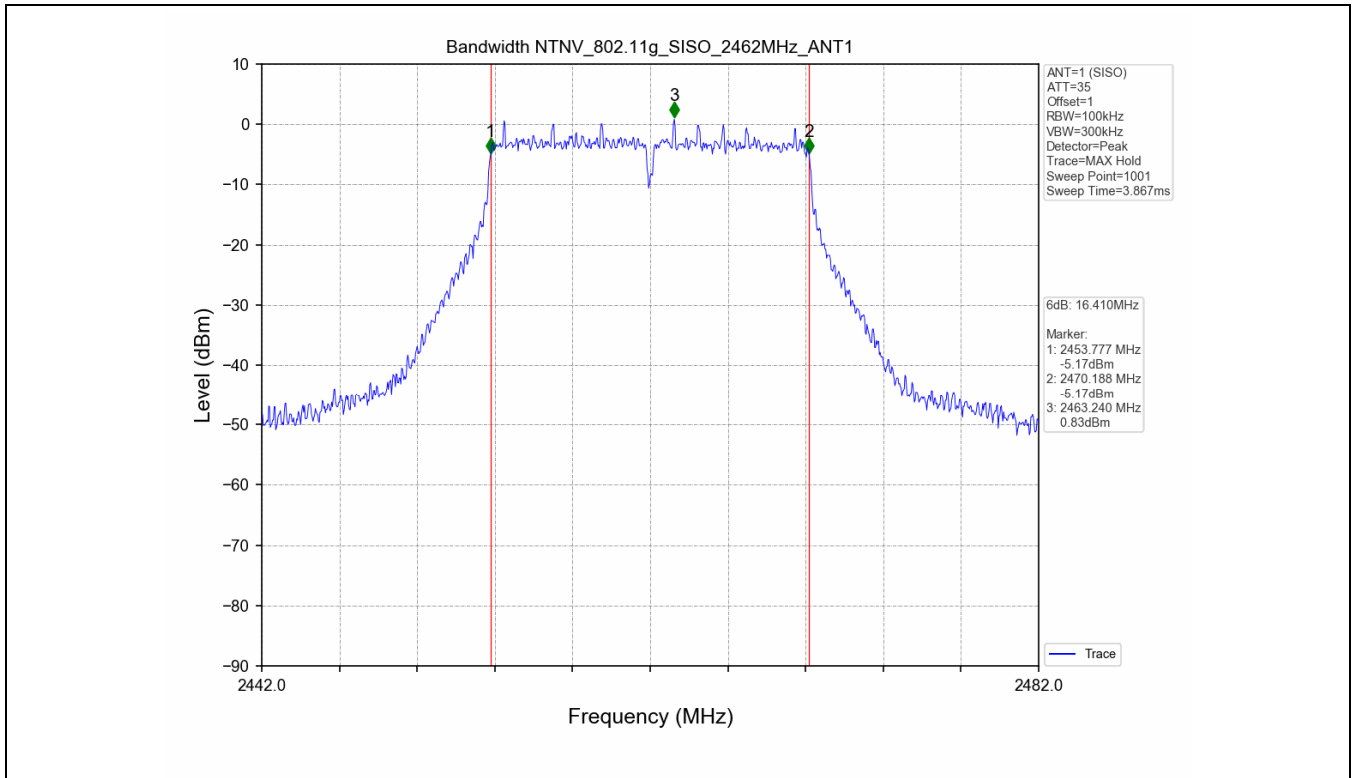
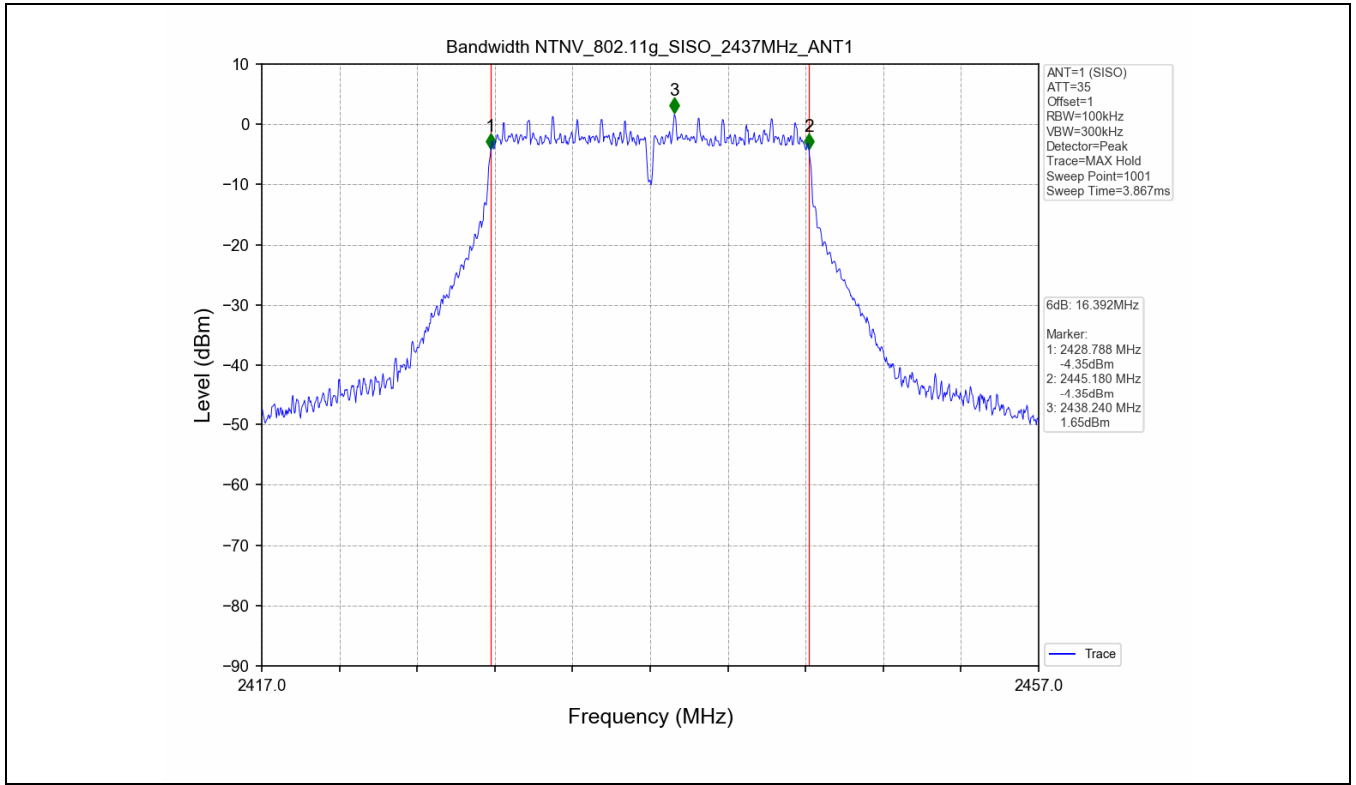
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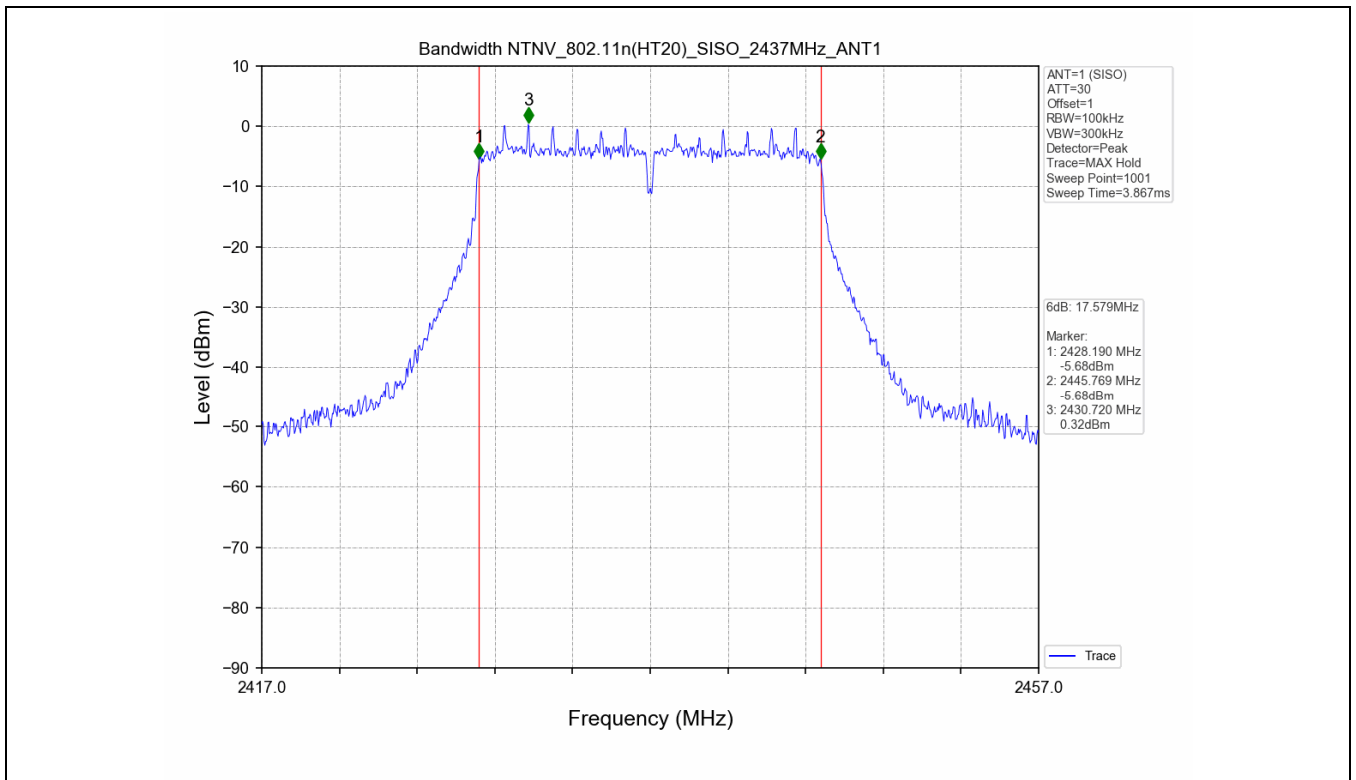
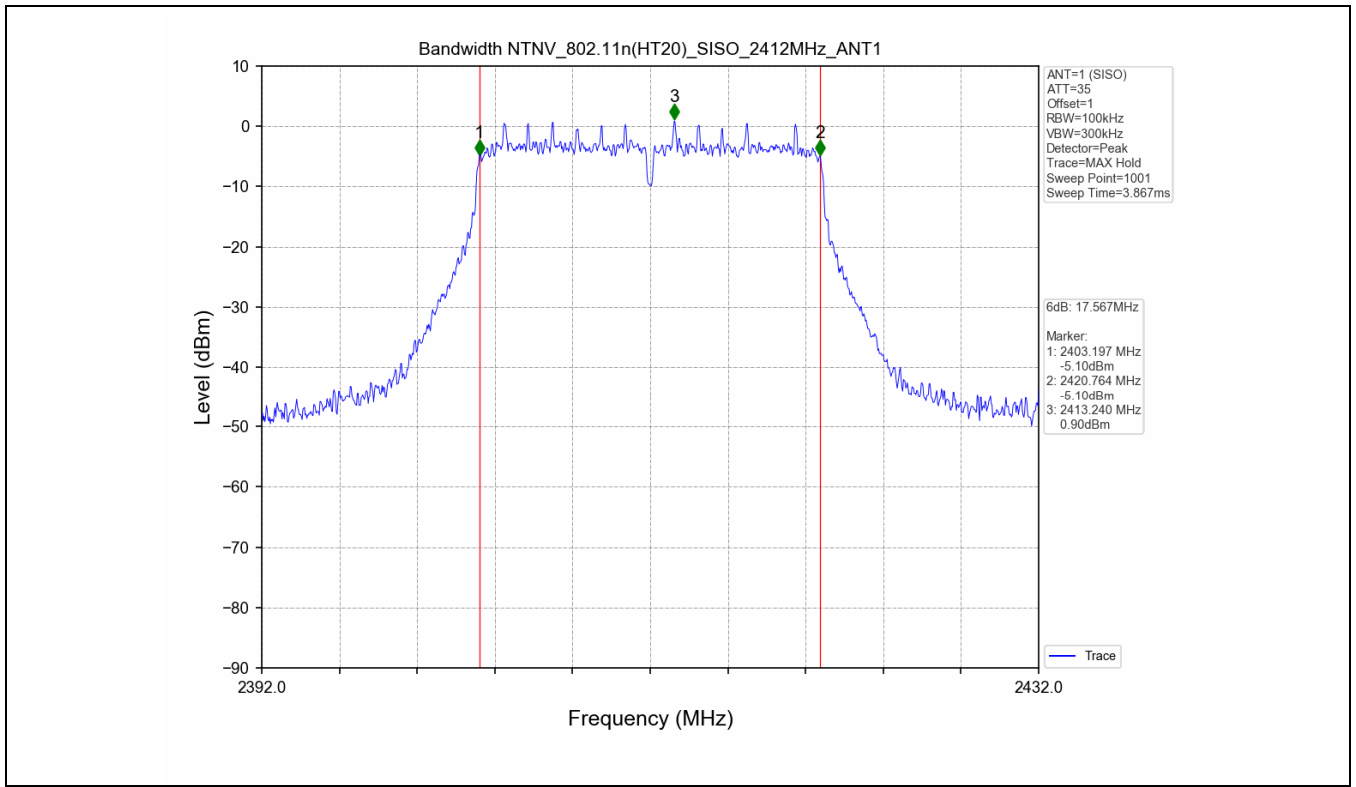
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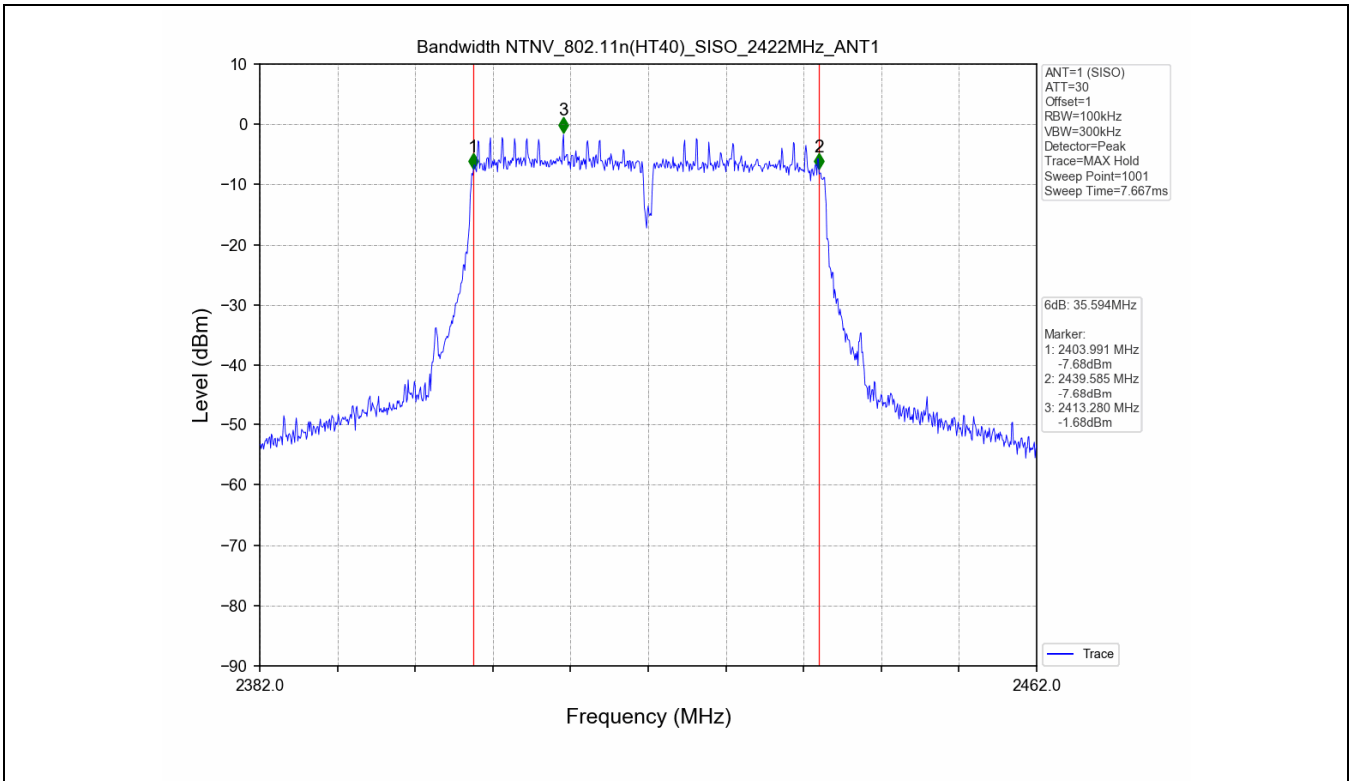
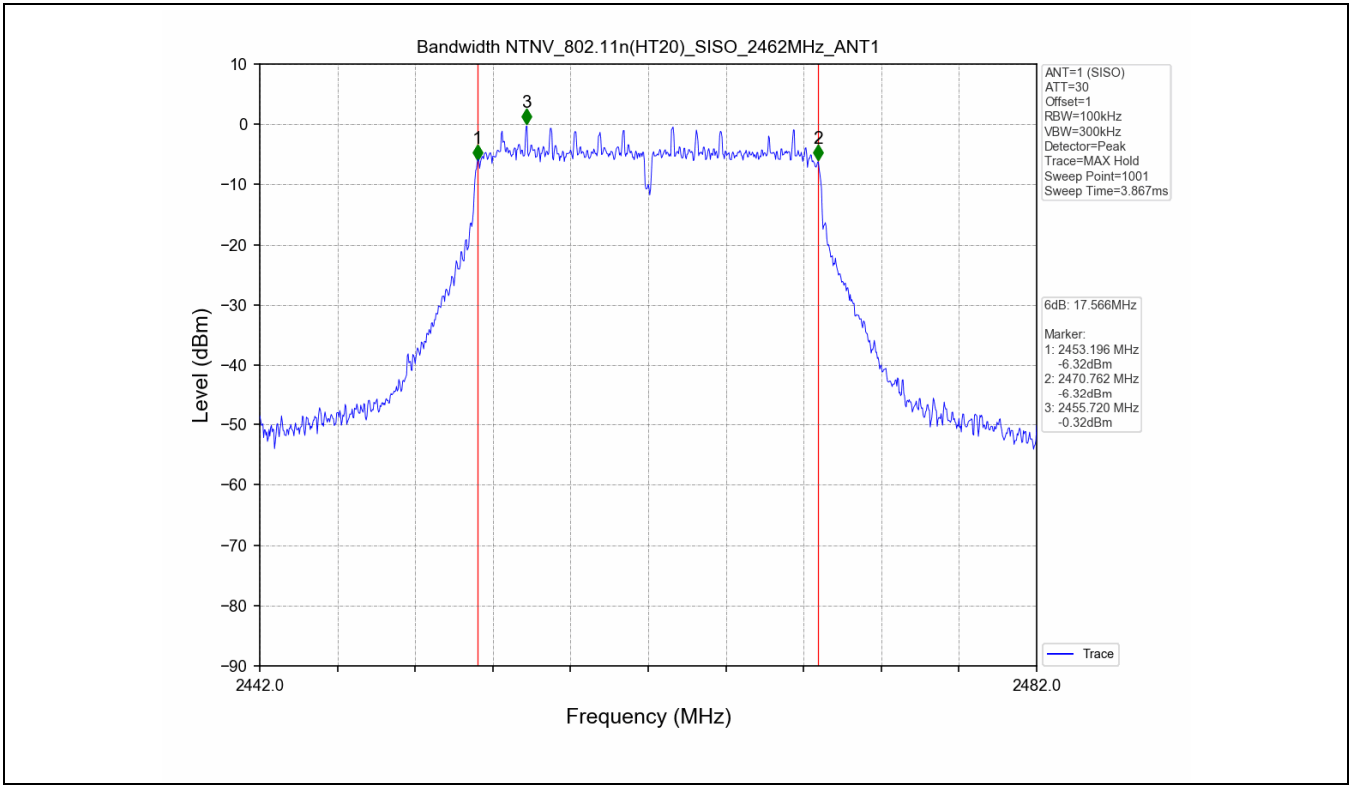
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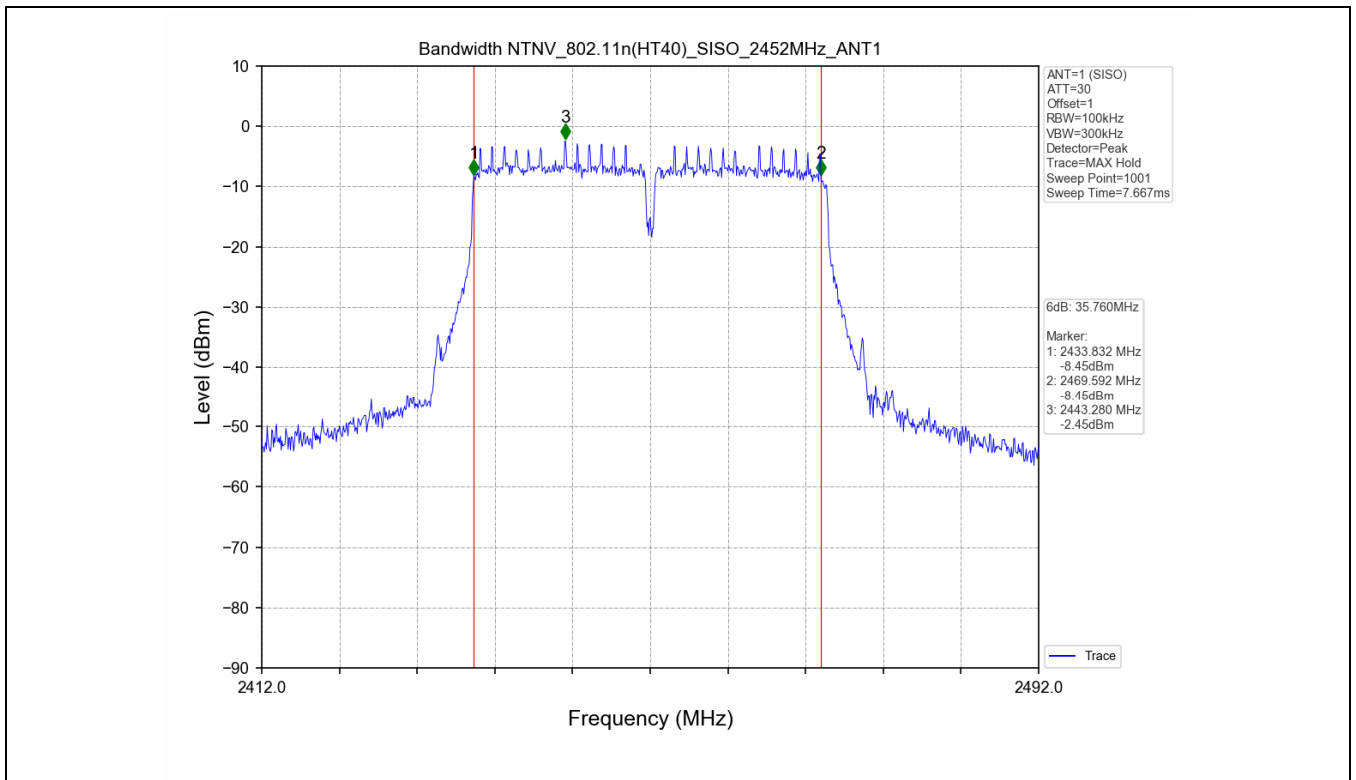
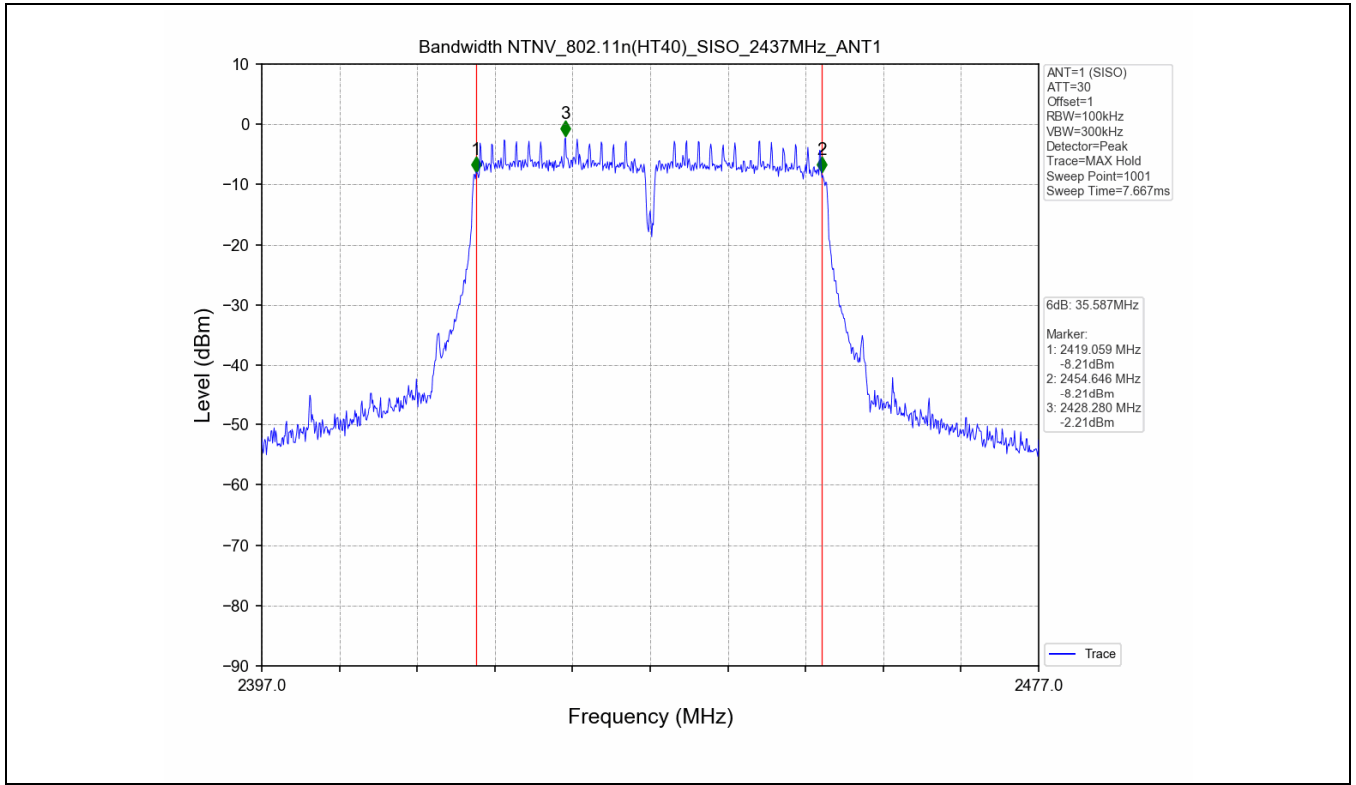
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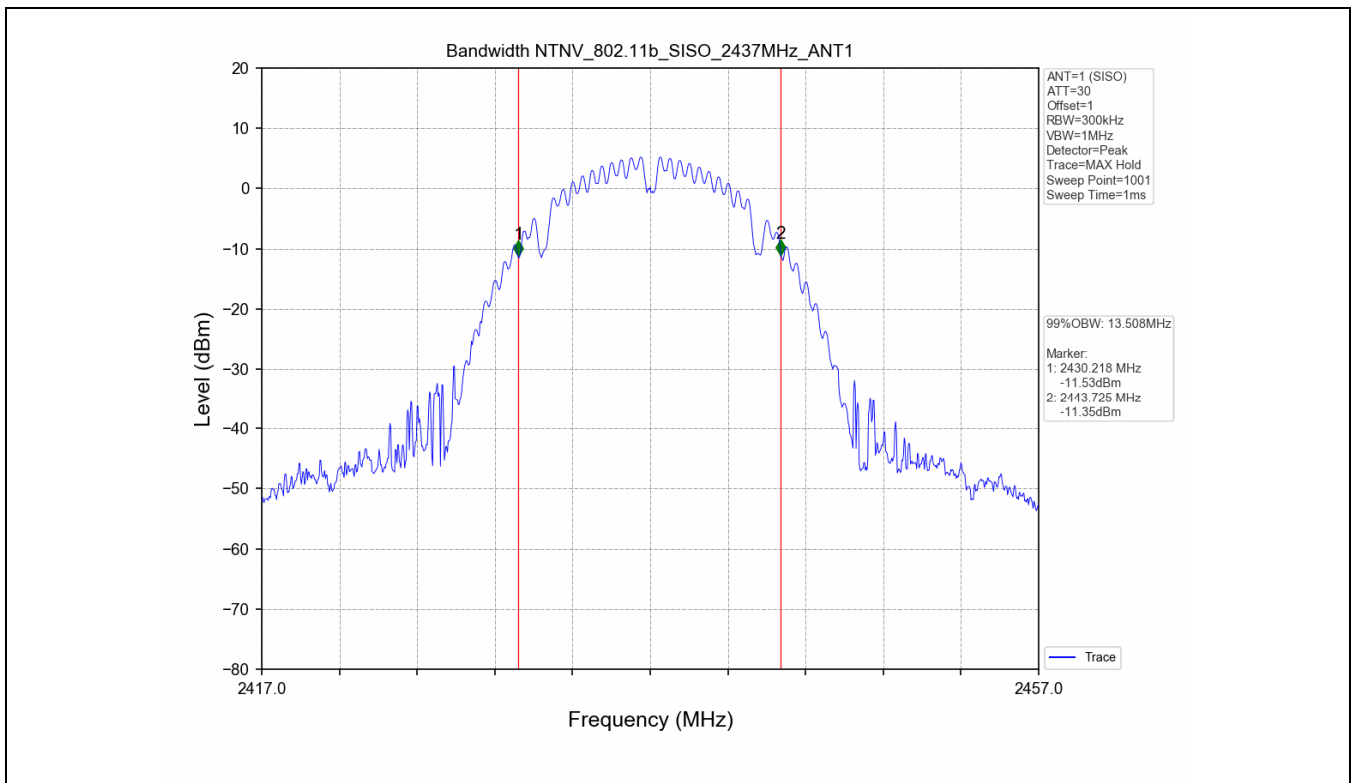
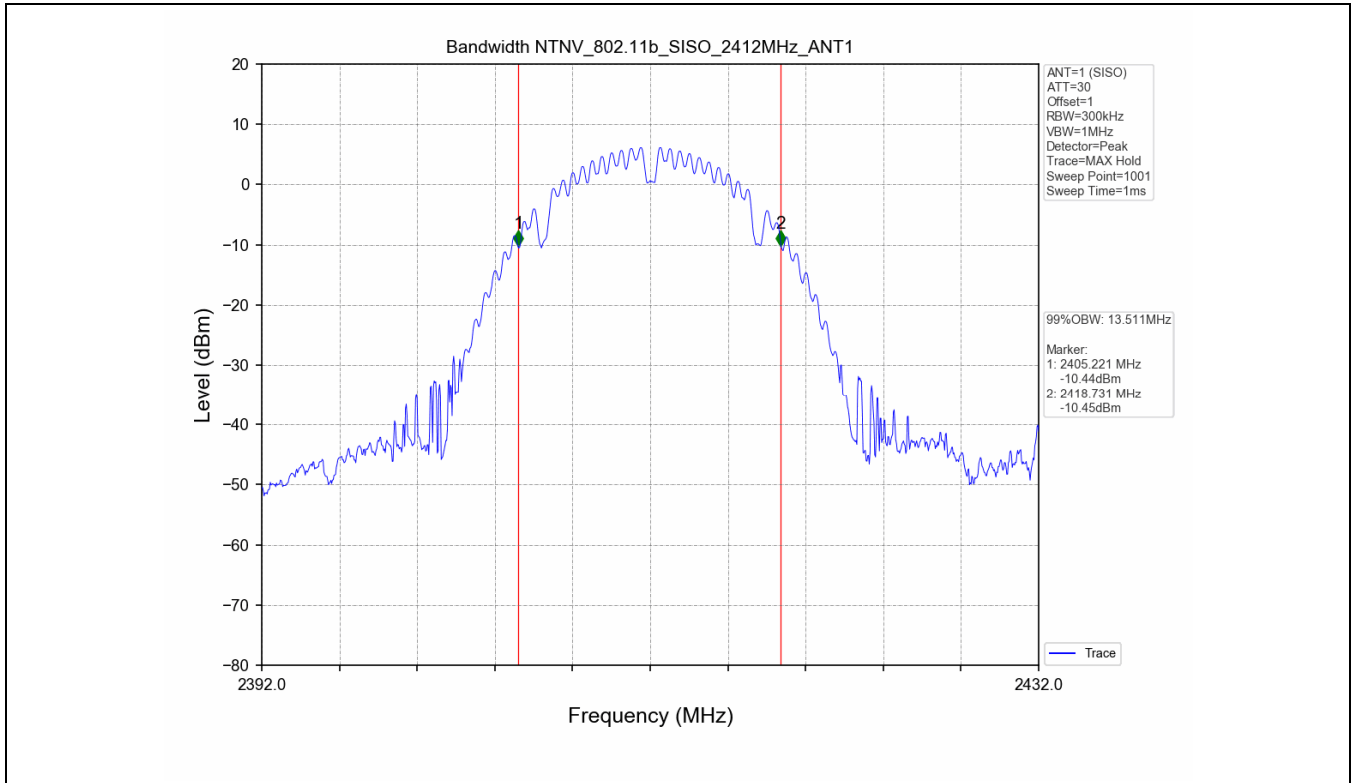
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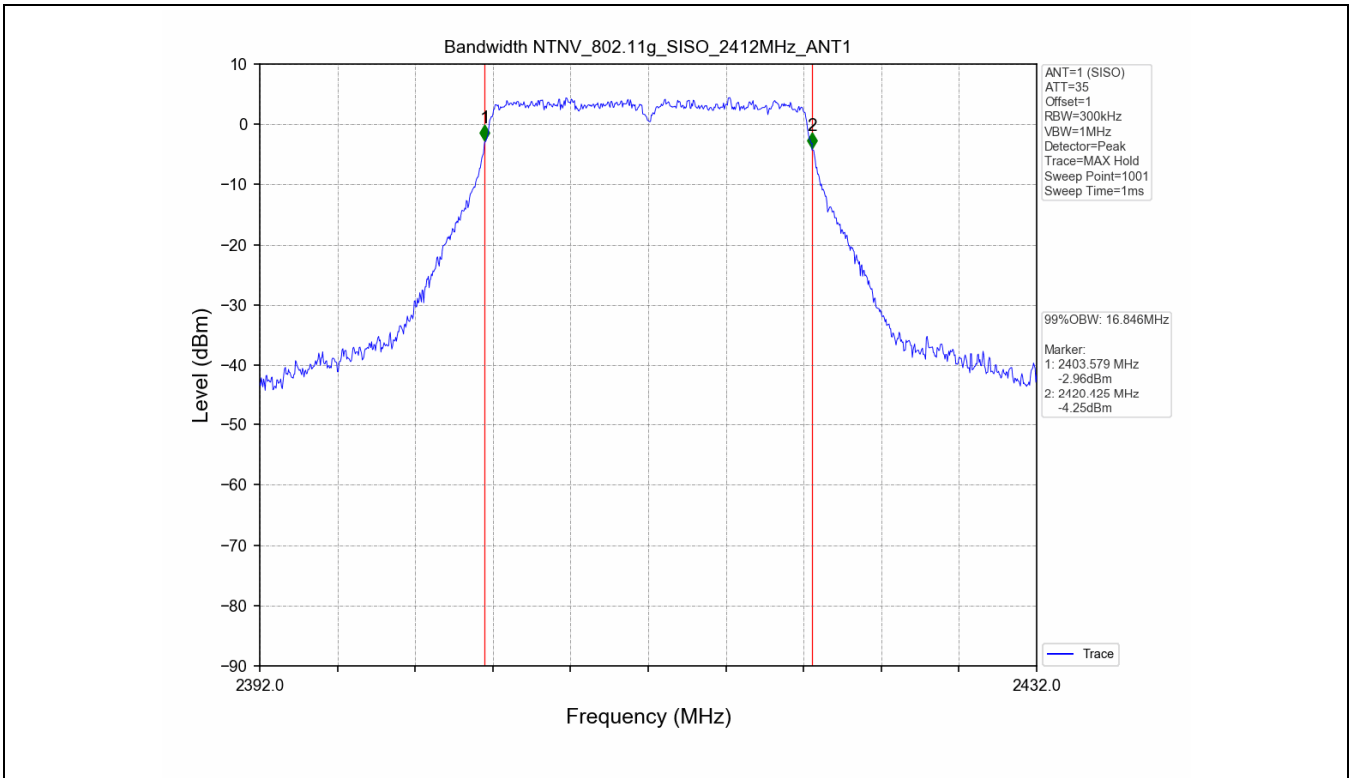
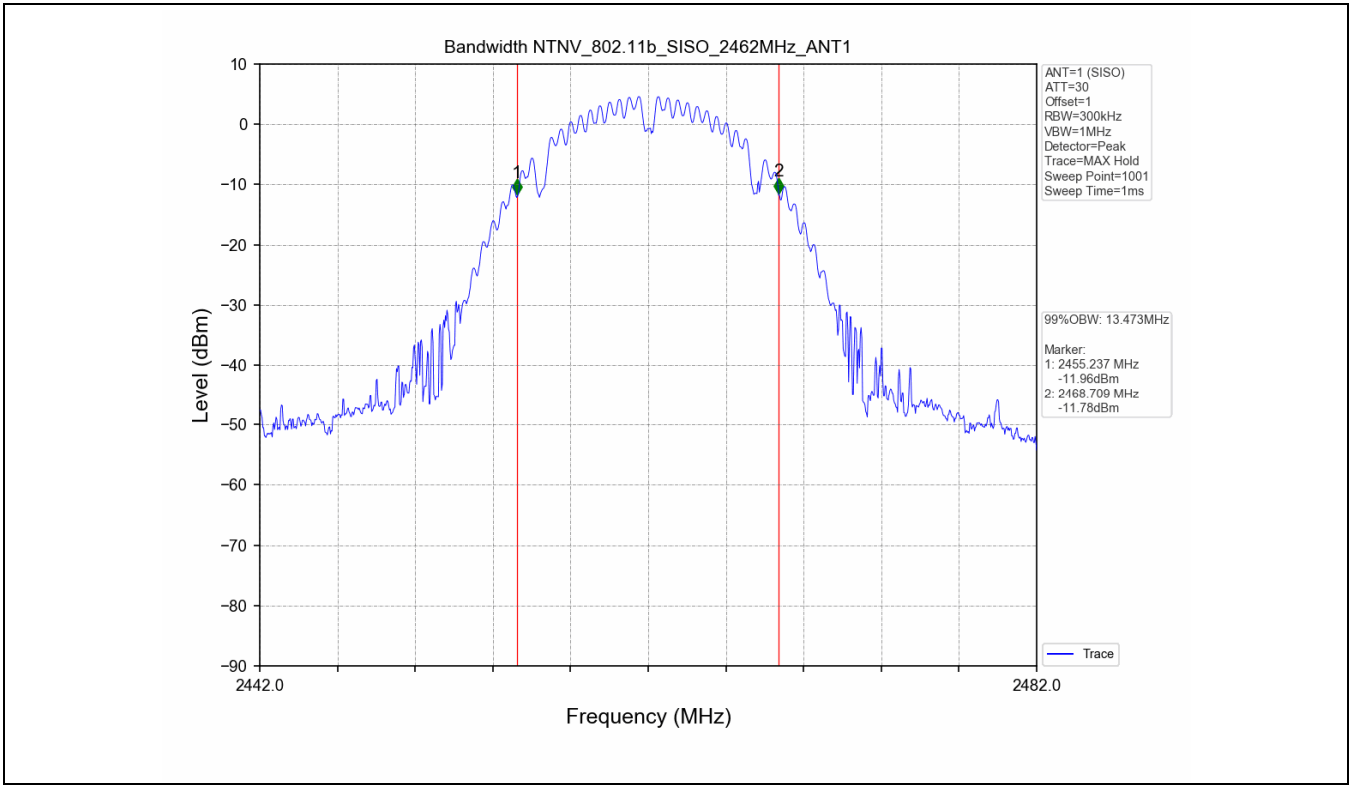
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2.3 Test Graph - 99% Occupied Bandwidth



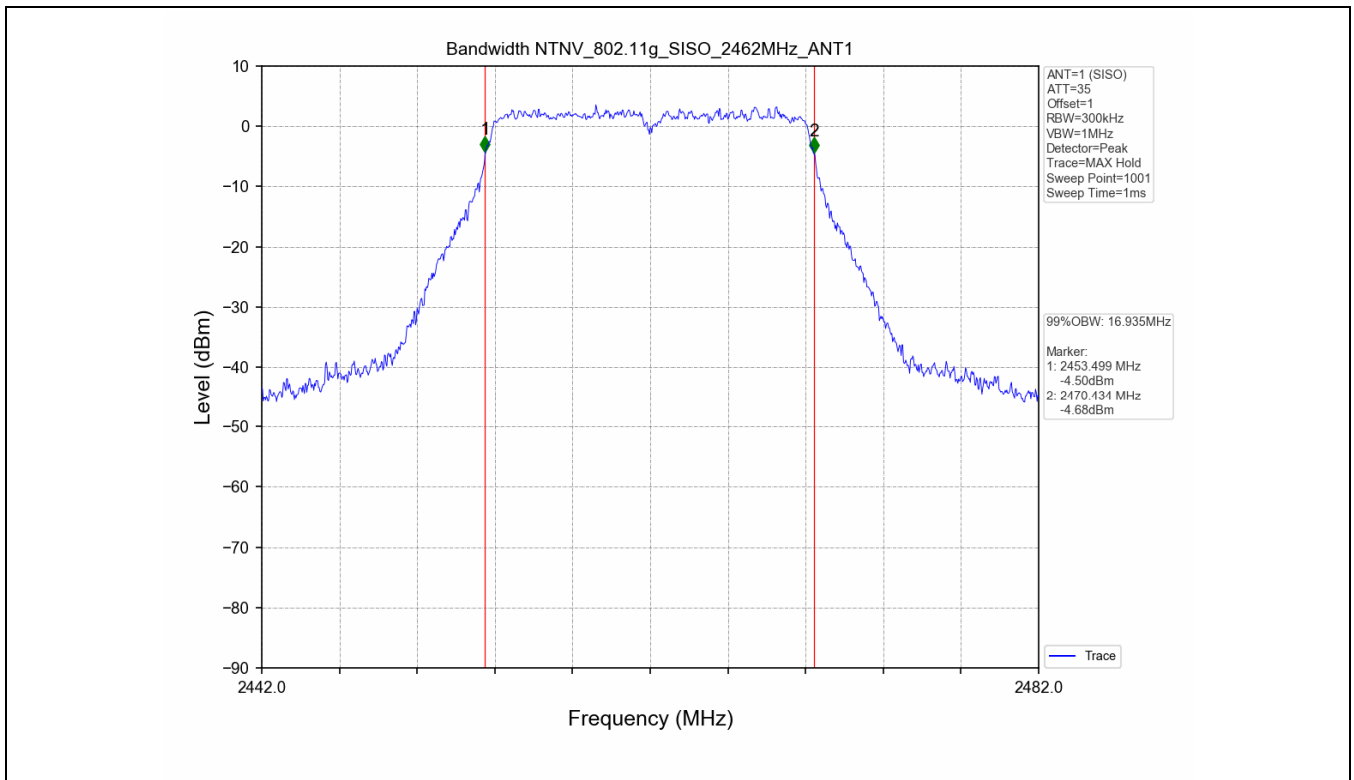
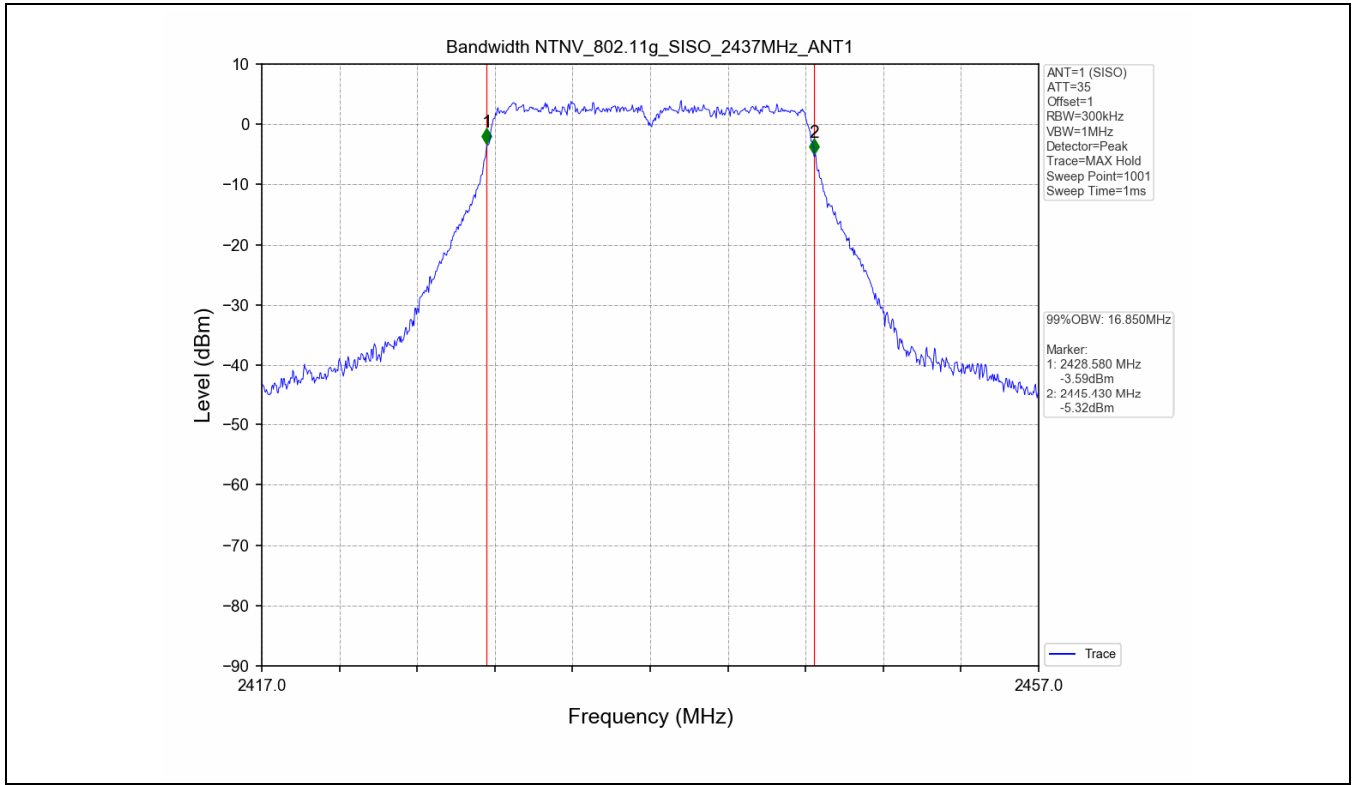
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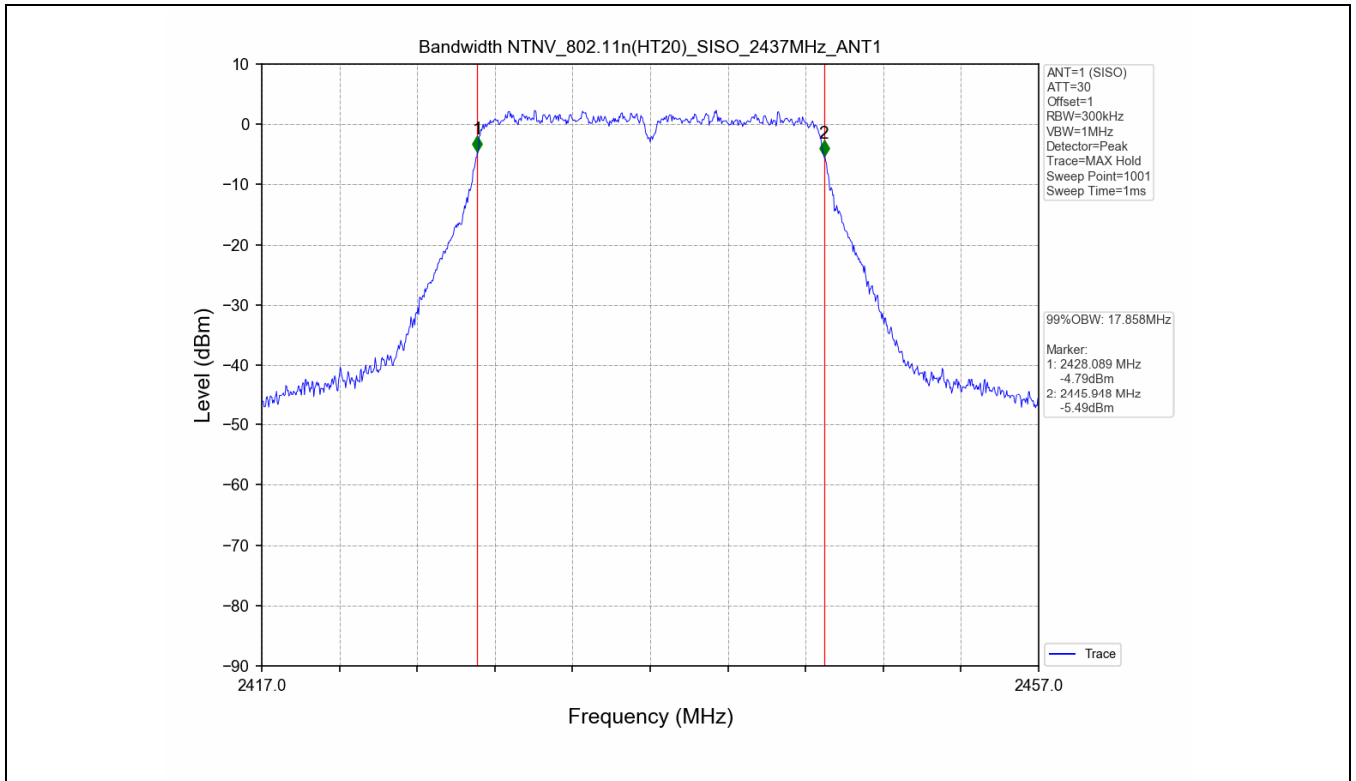
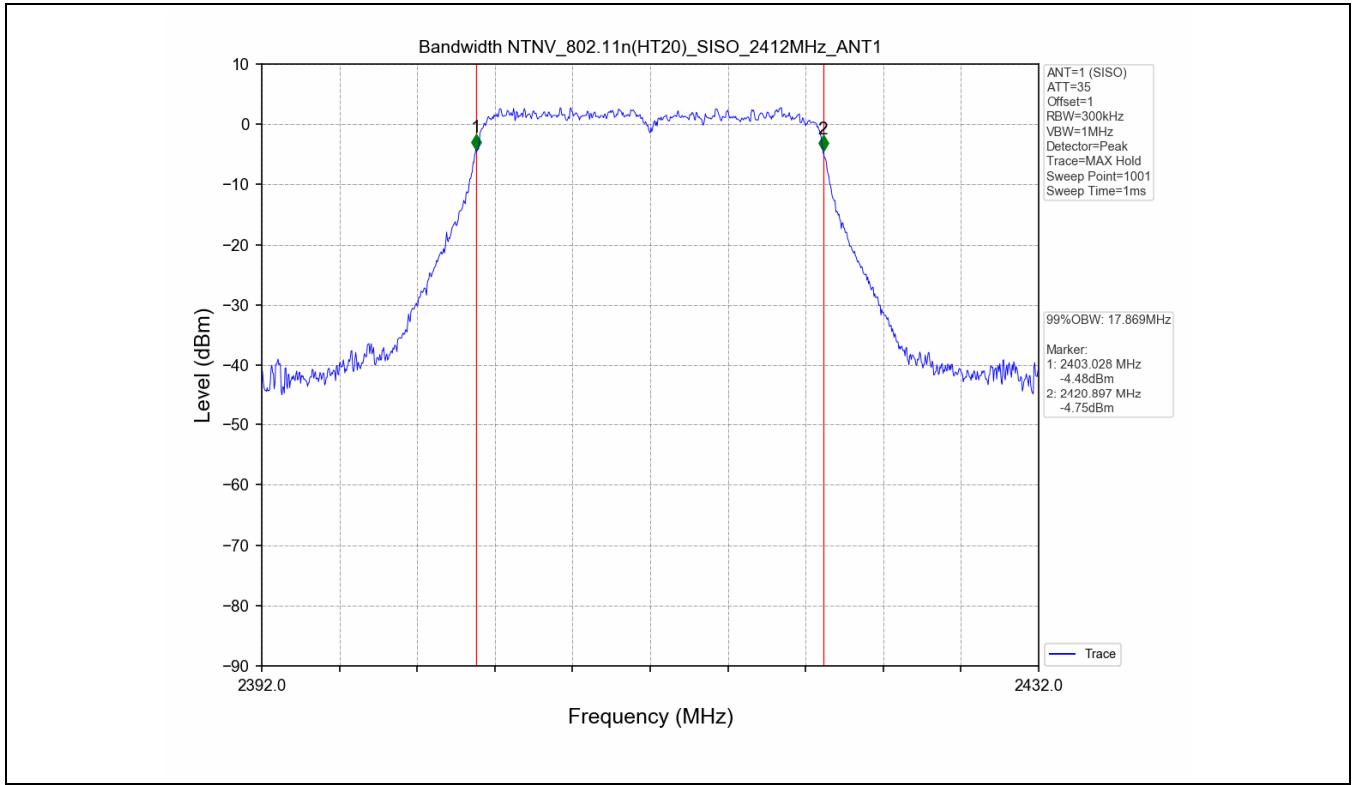


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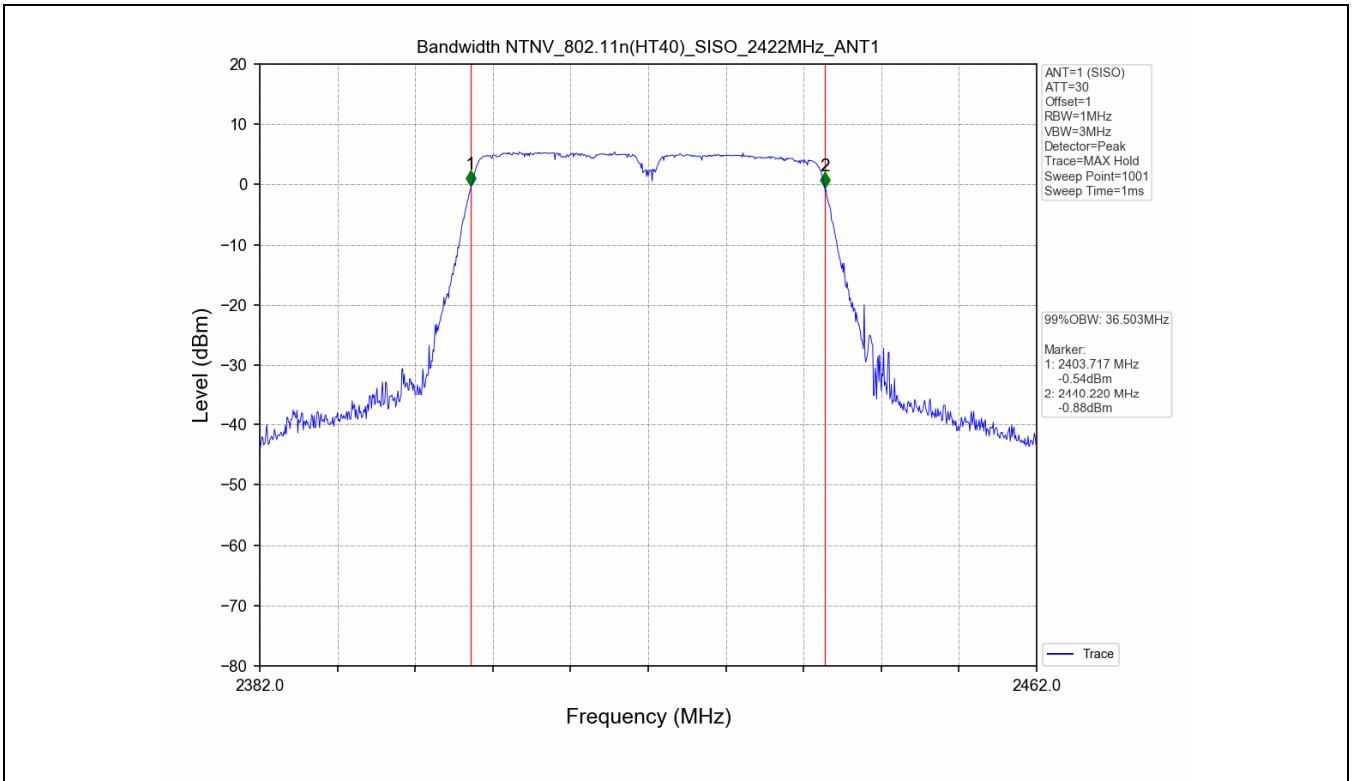
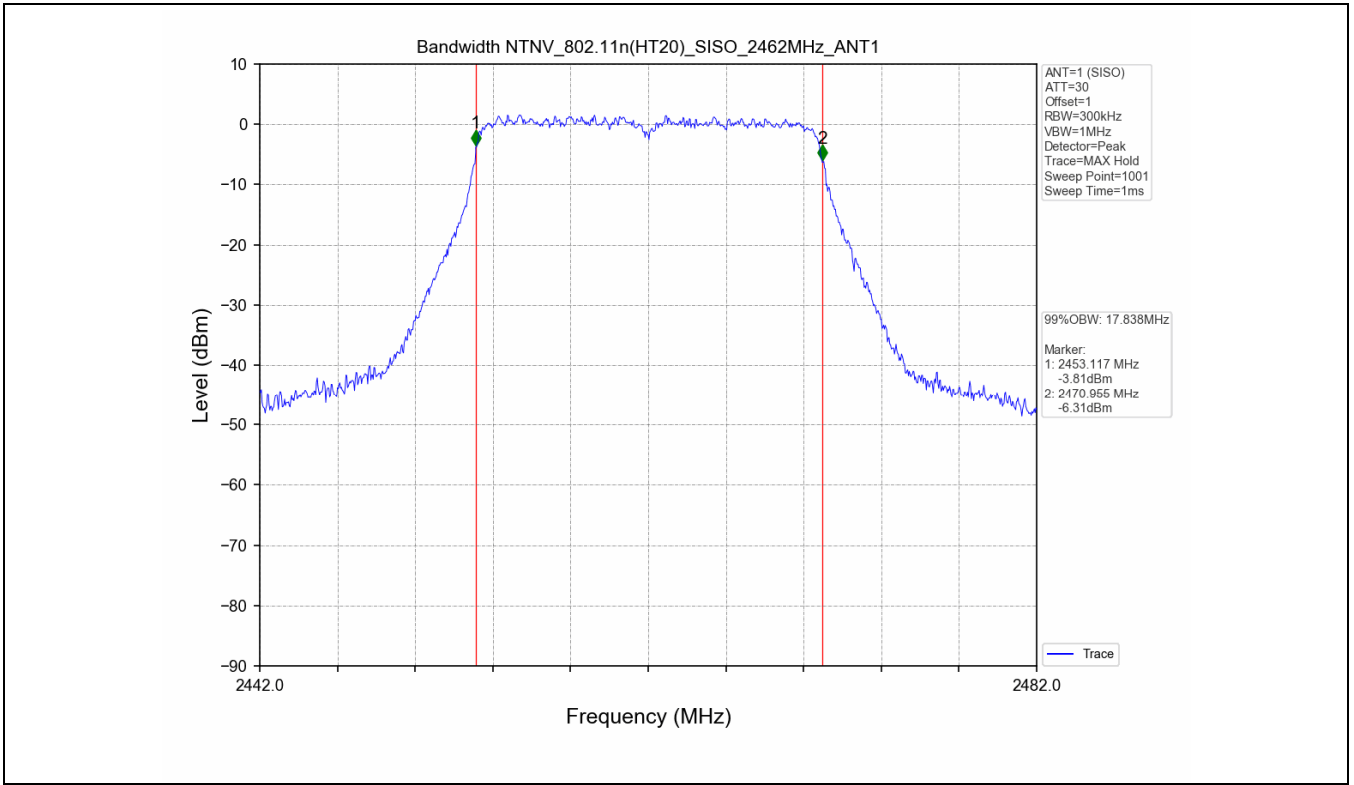


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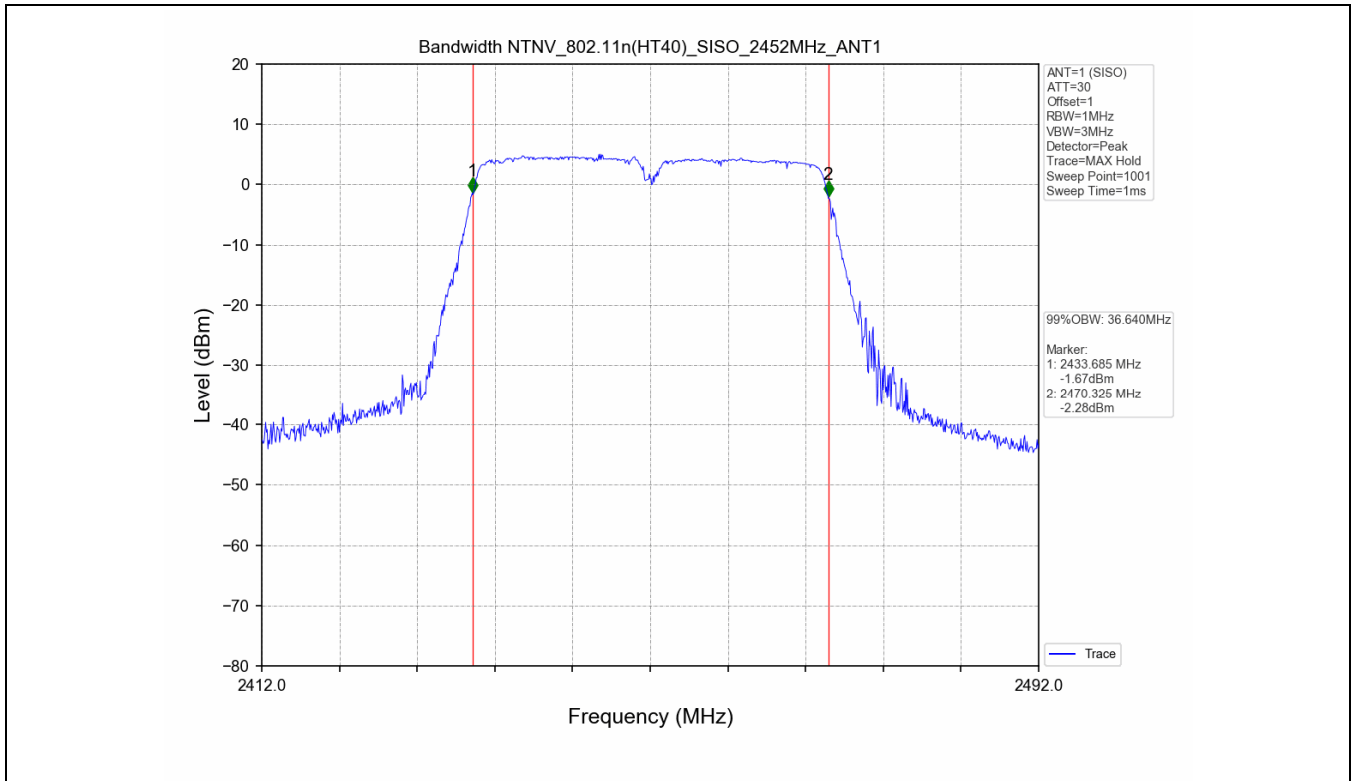
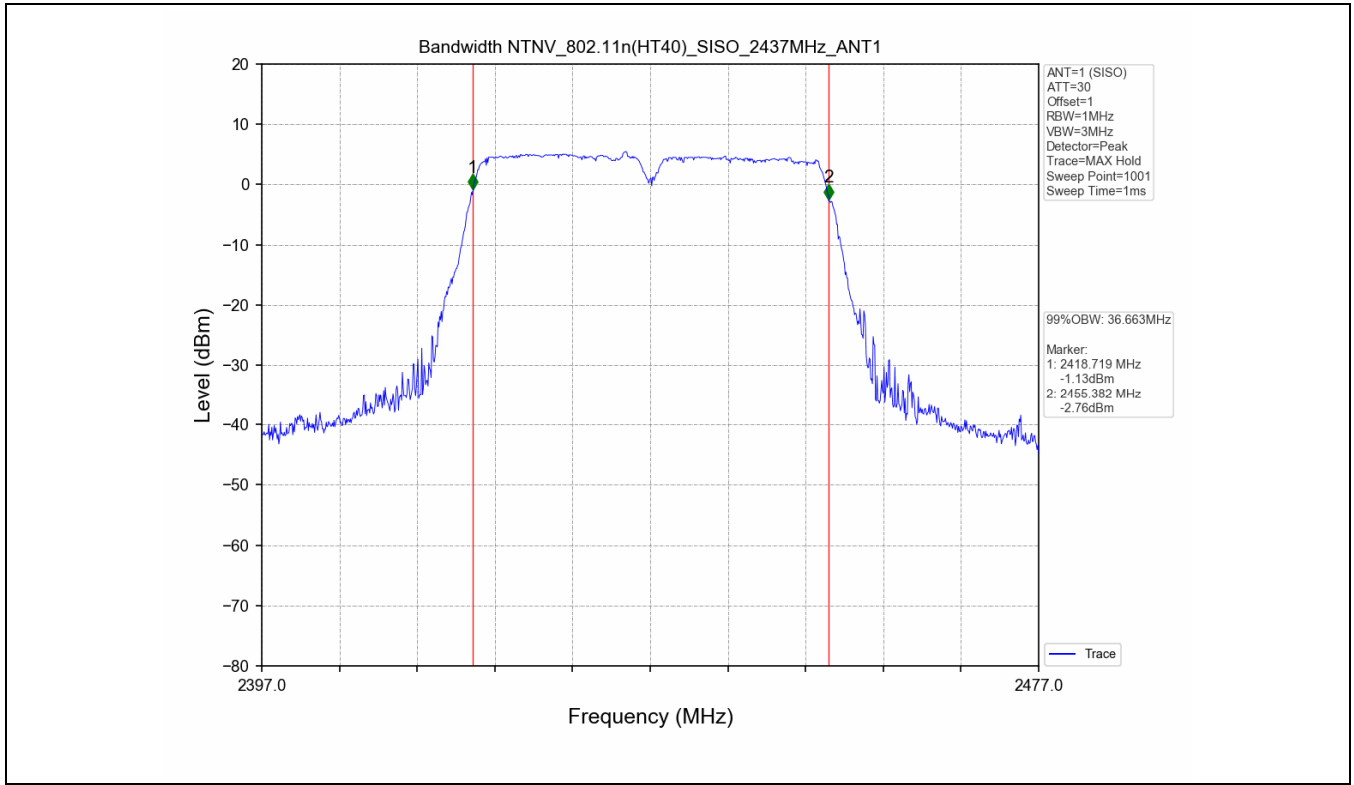


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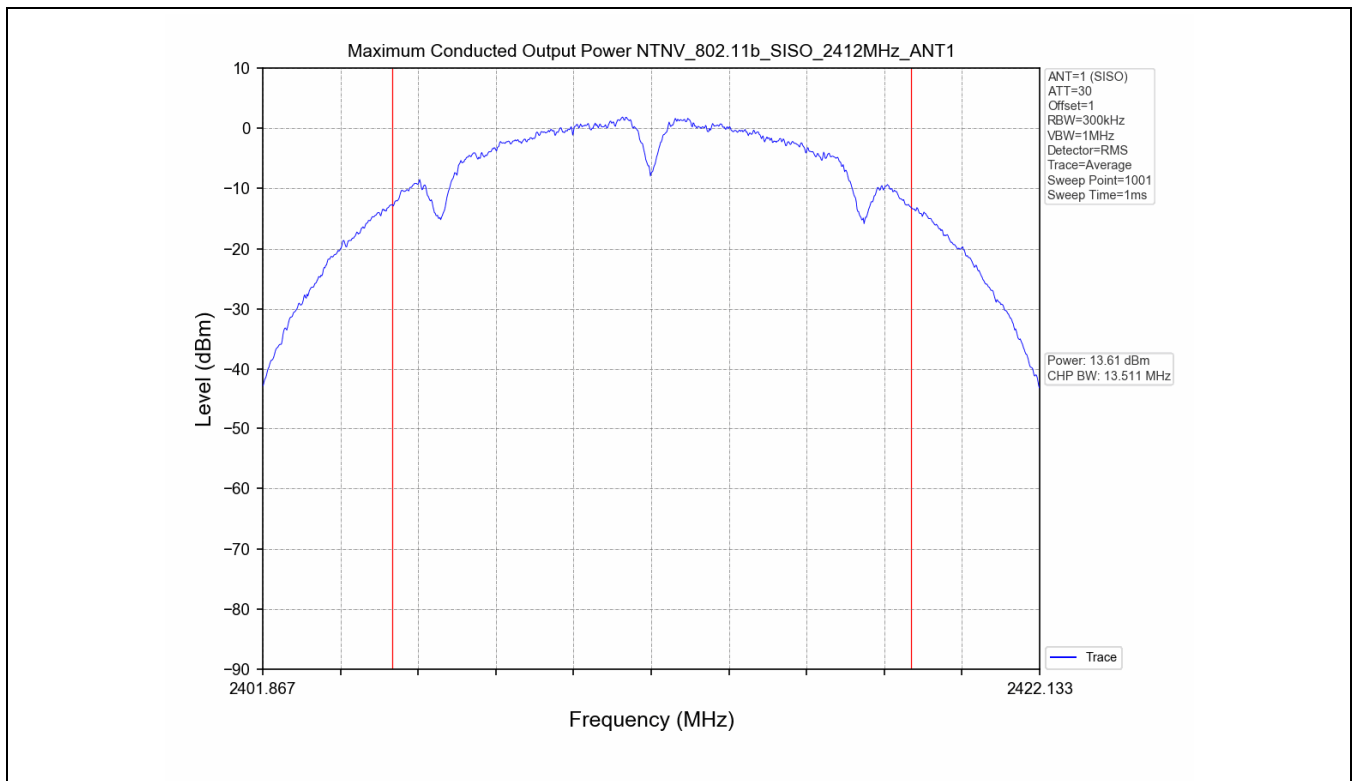
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3. Maximum Conducted Output Power

3.1 Test Result

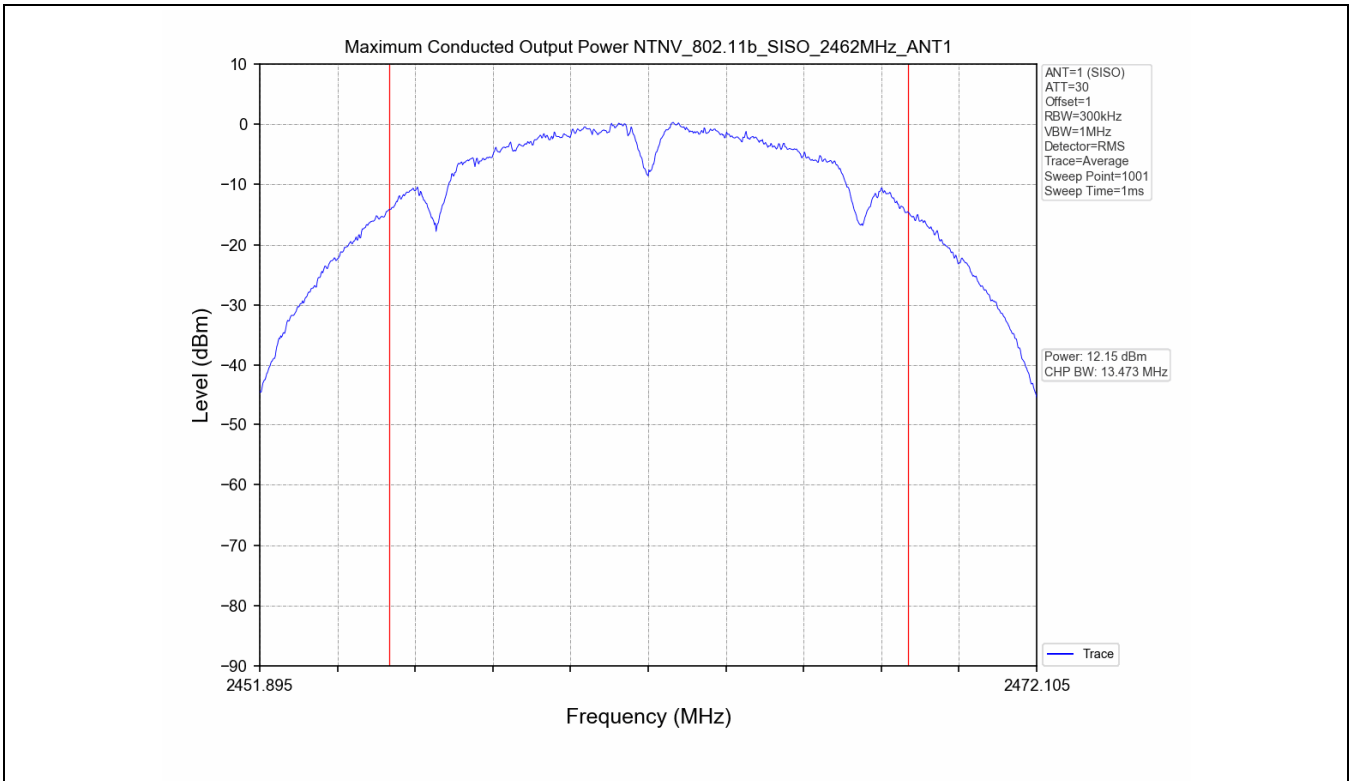
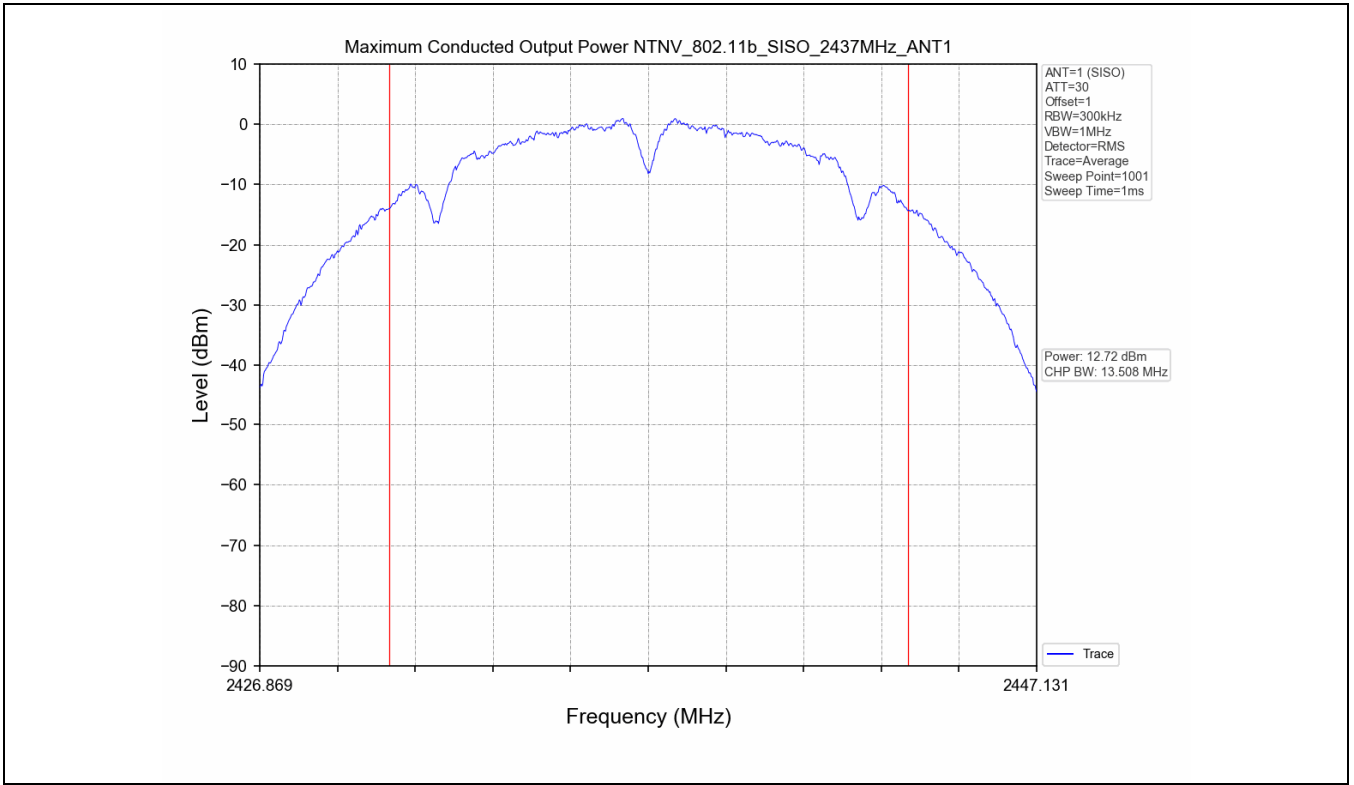
Test Mode	Frequency (MHz)	Tx Type	Measured Average Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	13.61	30	PASS
	2437	SISO	12.72	30	PASS
	2462	SISO	12.15	30	PASS
802.11g	2412	SISO	13.22	30	PASS
	2437	SISO	12.56	30	PASS
	2462	SISO	11.94	30	PASS
802.11n(HT20)	2412	SISO	11.83	30	PASS
	2437	SISO	11.19	30	PASS
	2462	SISO	10.61	30	PASS
802.11n(HT40)	2422	SISO	11.93	30	PASS
	2437	SISO	11.61	30	PASS
	2452	SISO	11.19	30	PASS

3.2 Test Graph



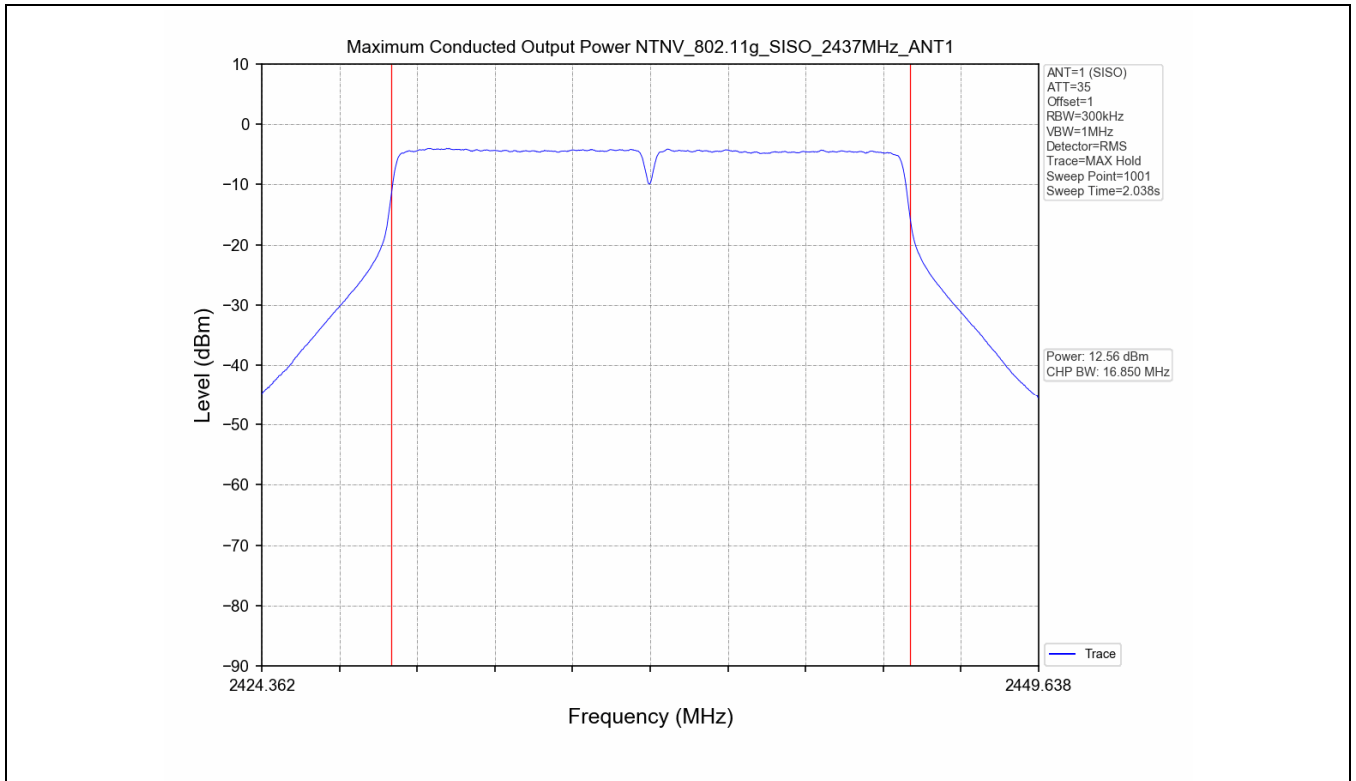
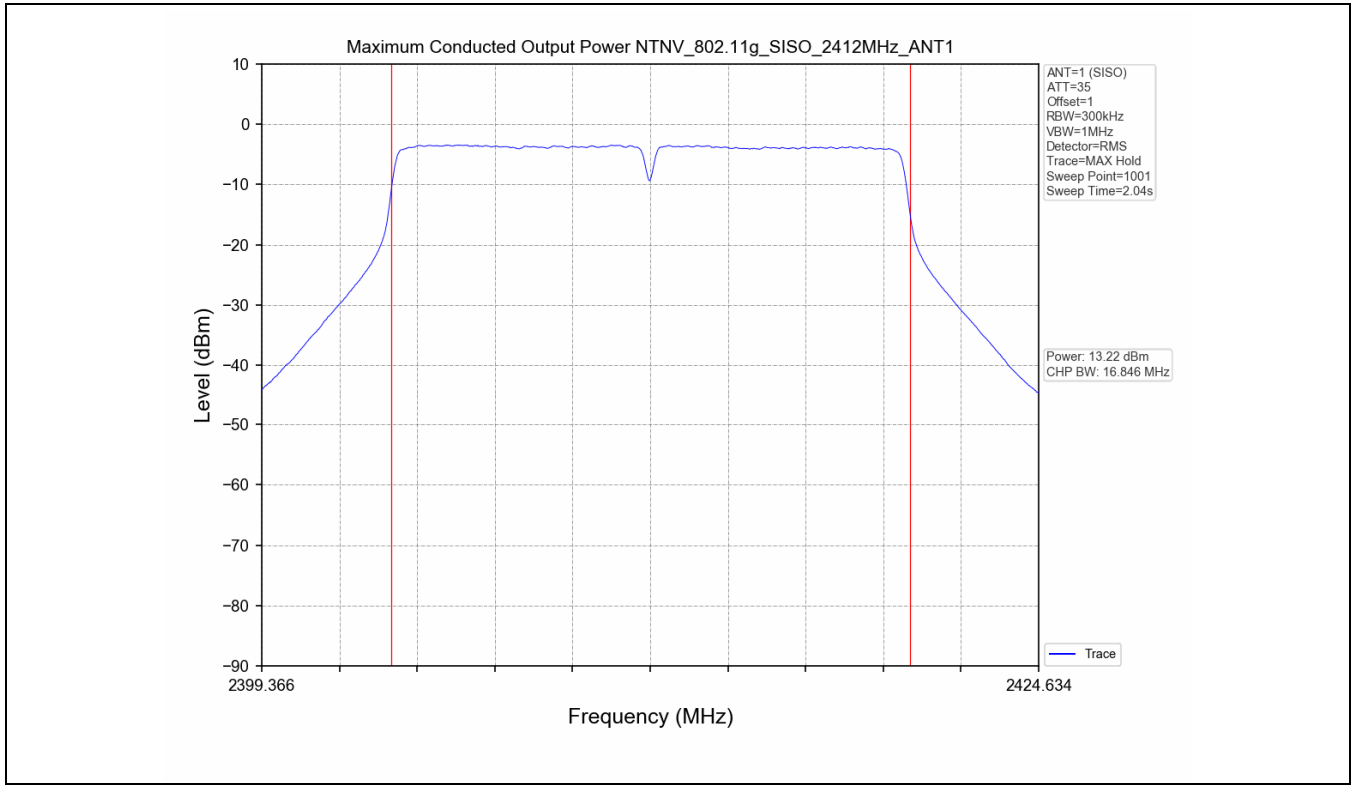
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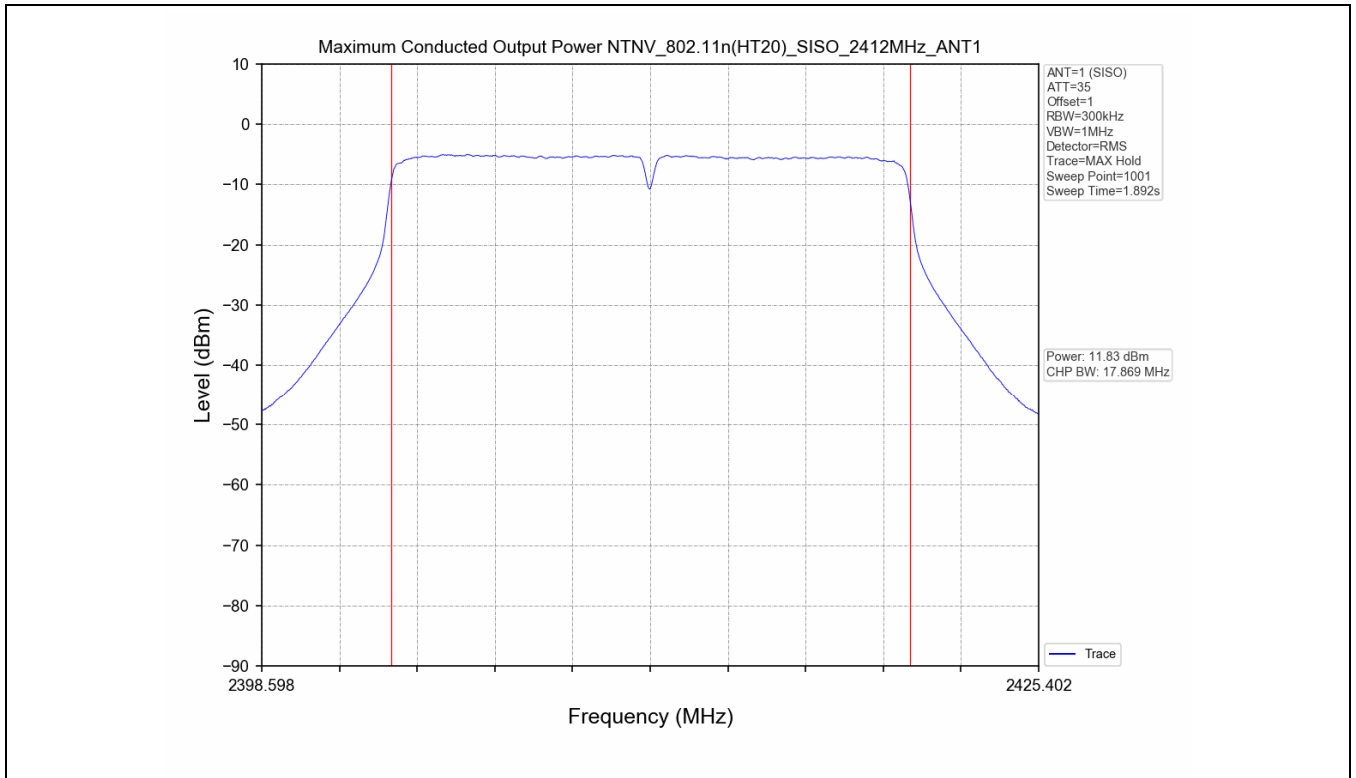
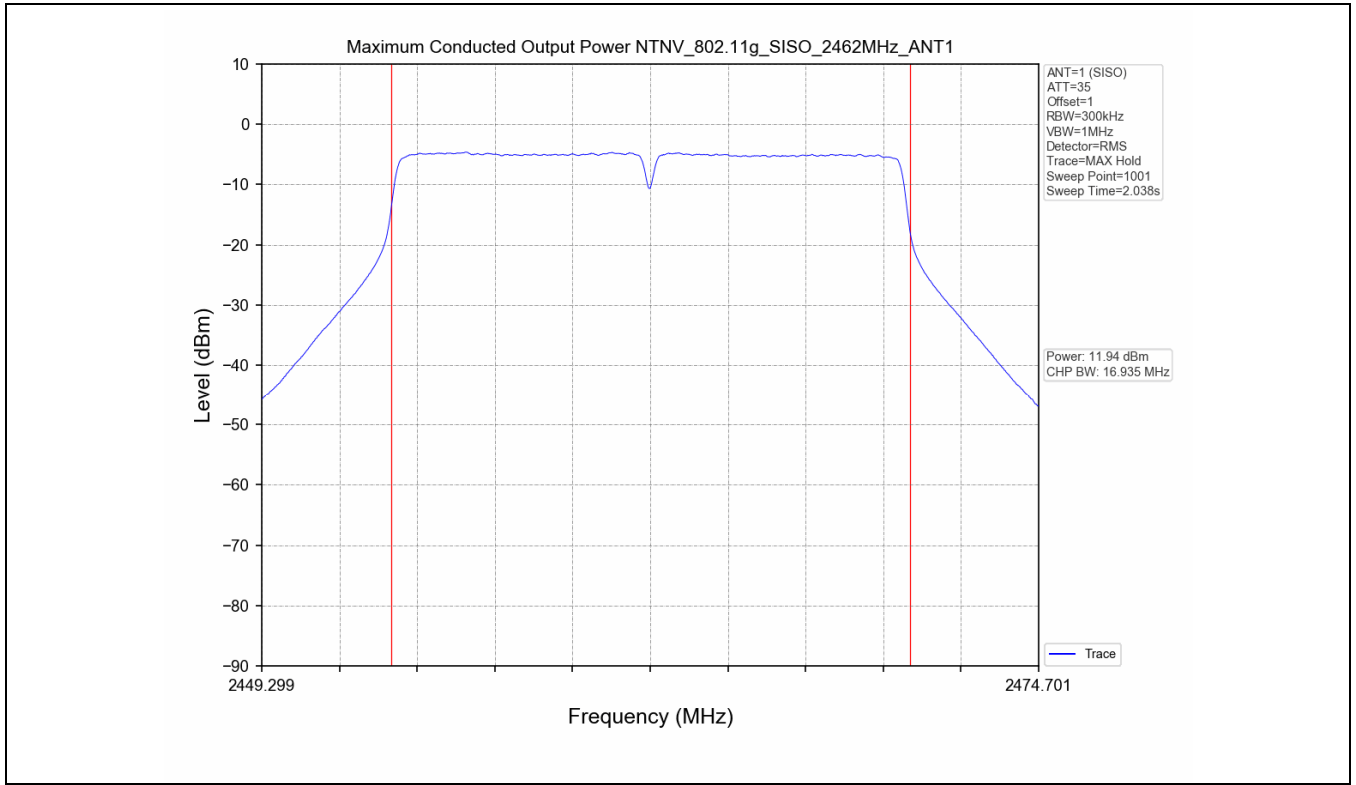
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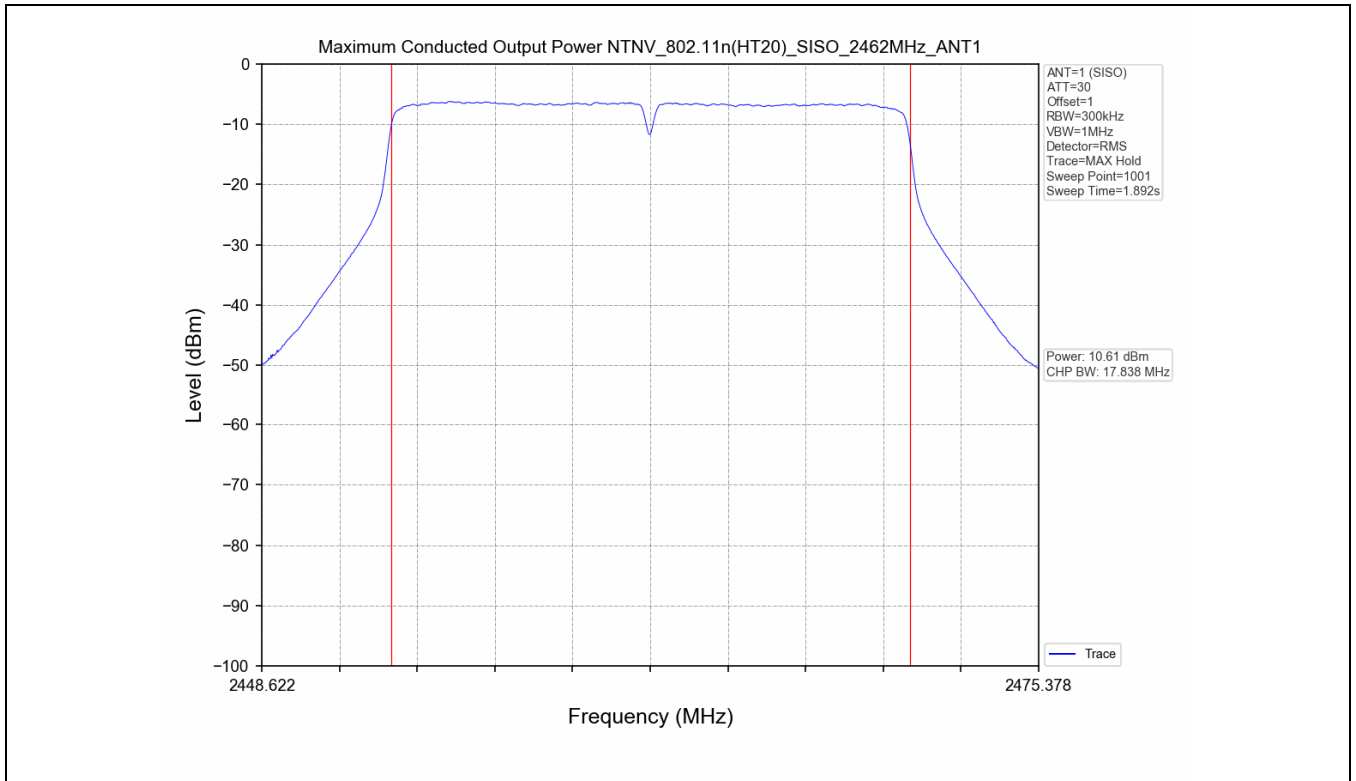
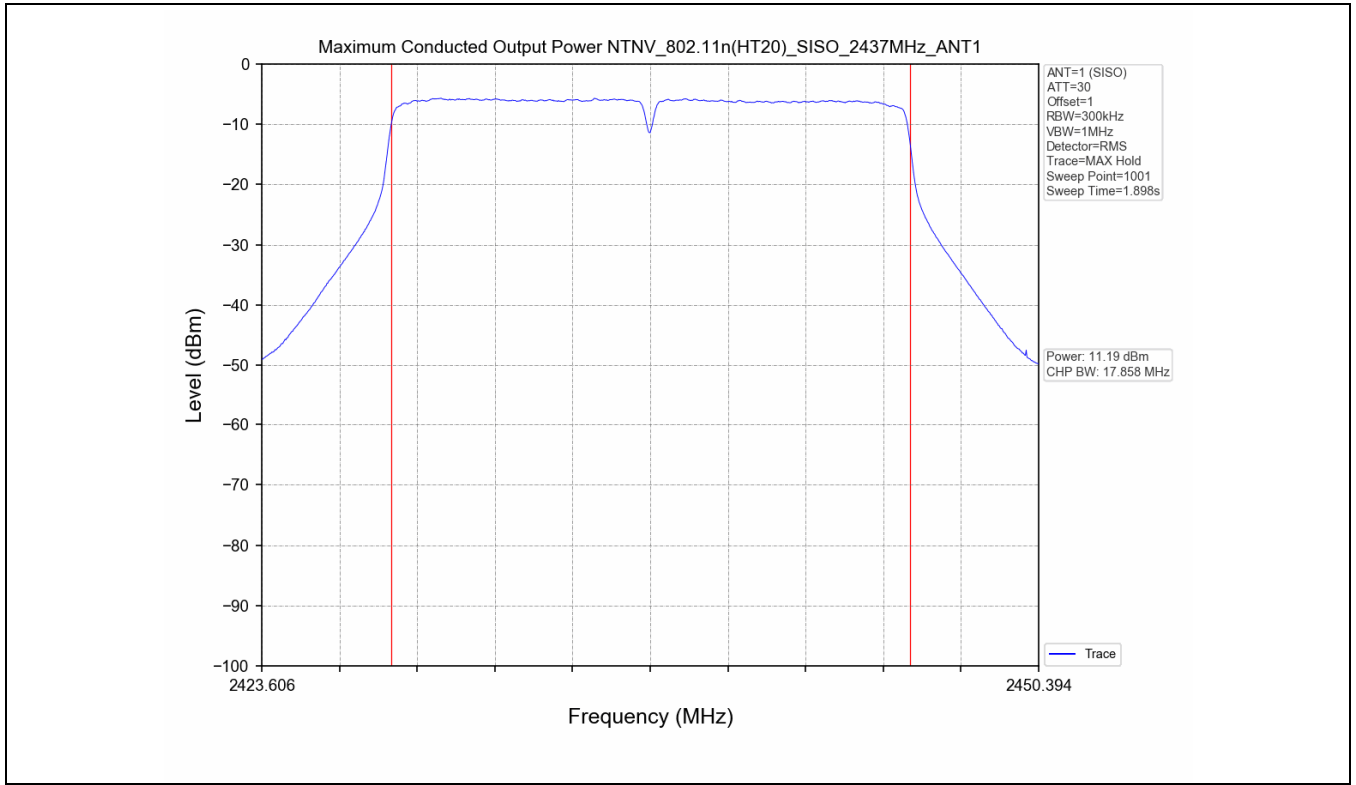
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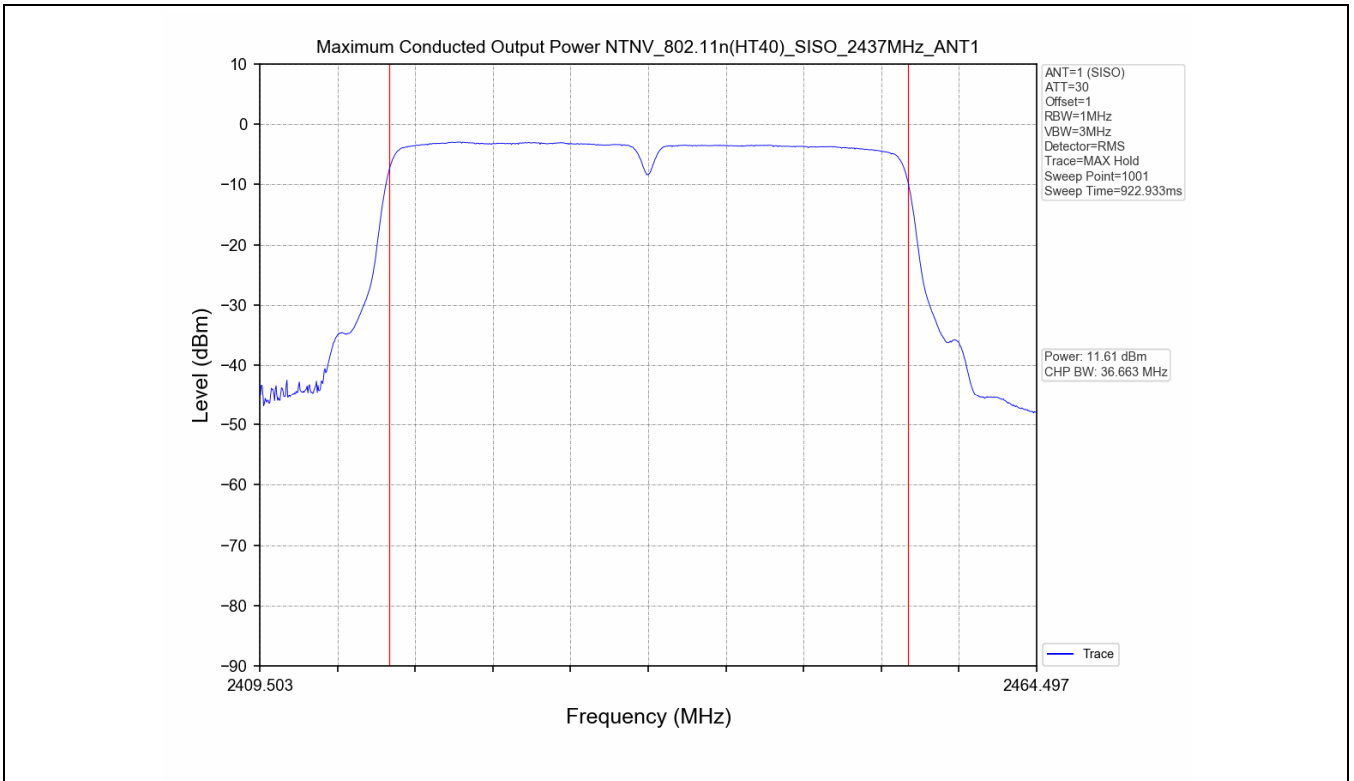
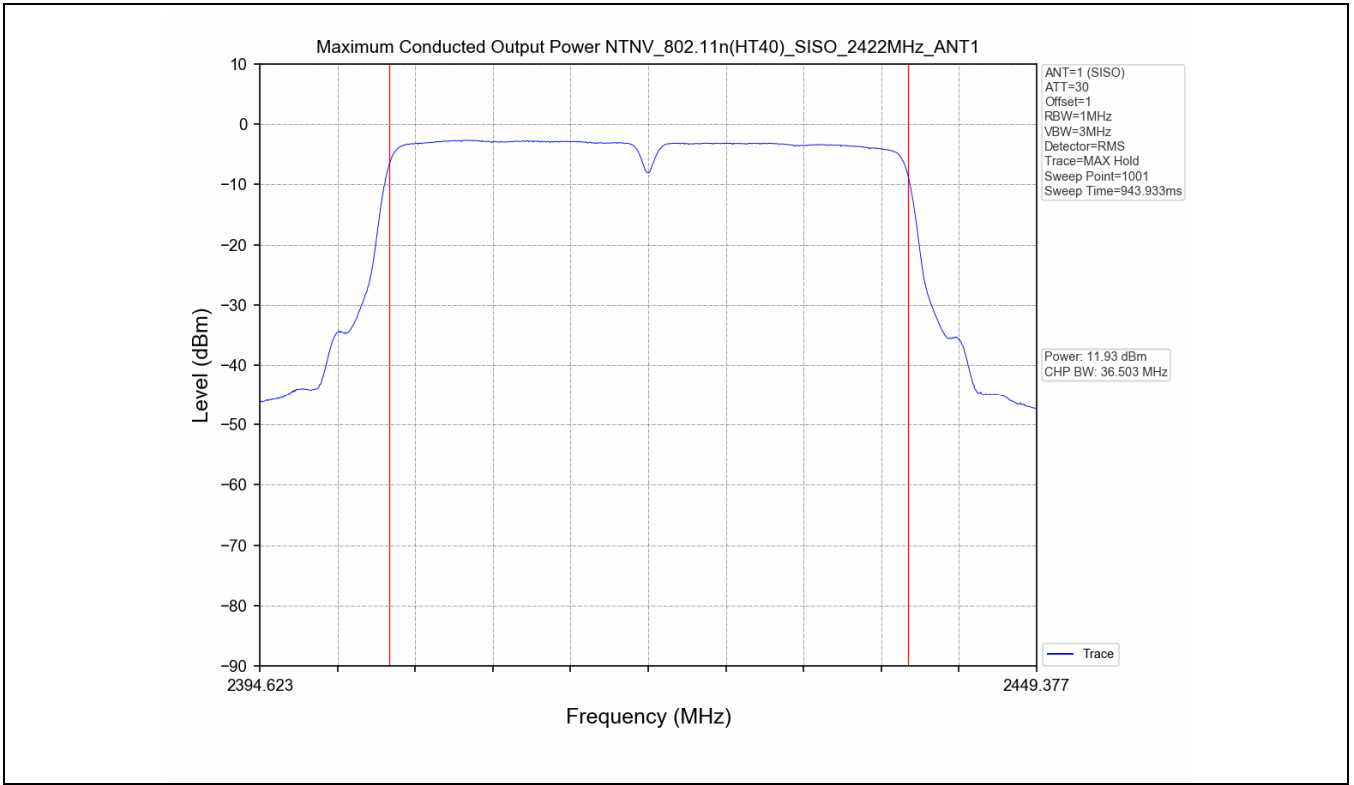
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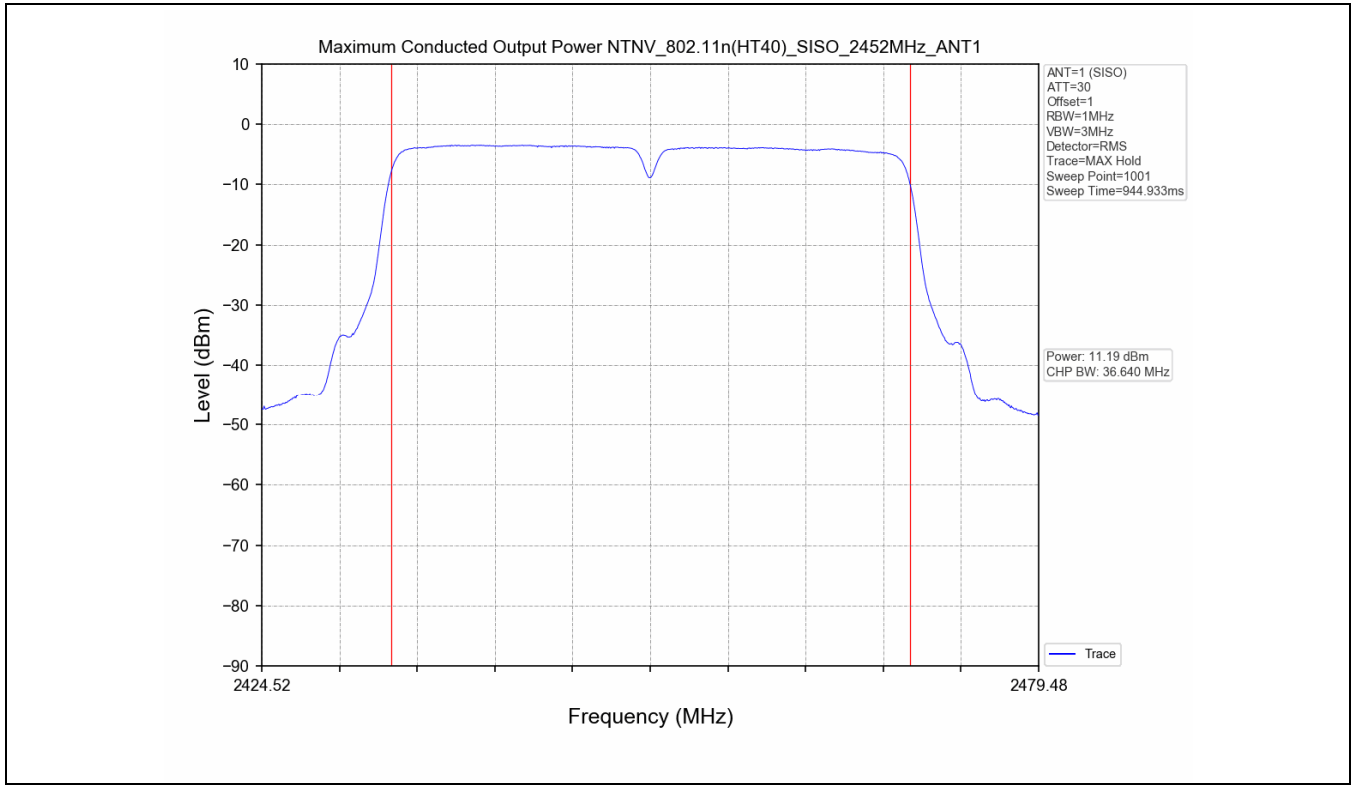


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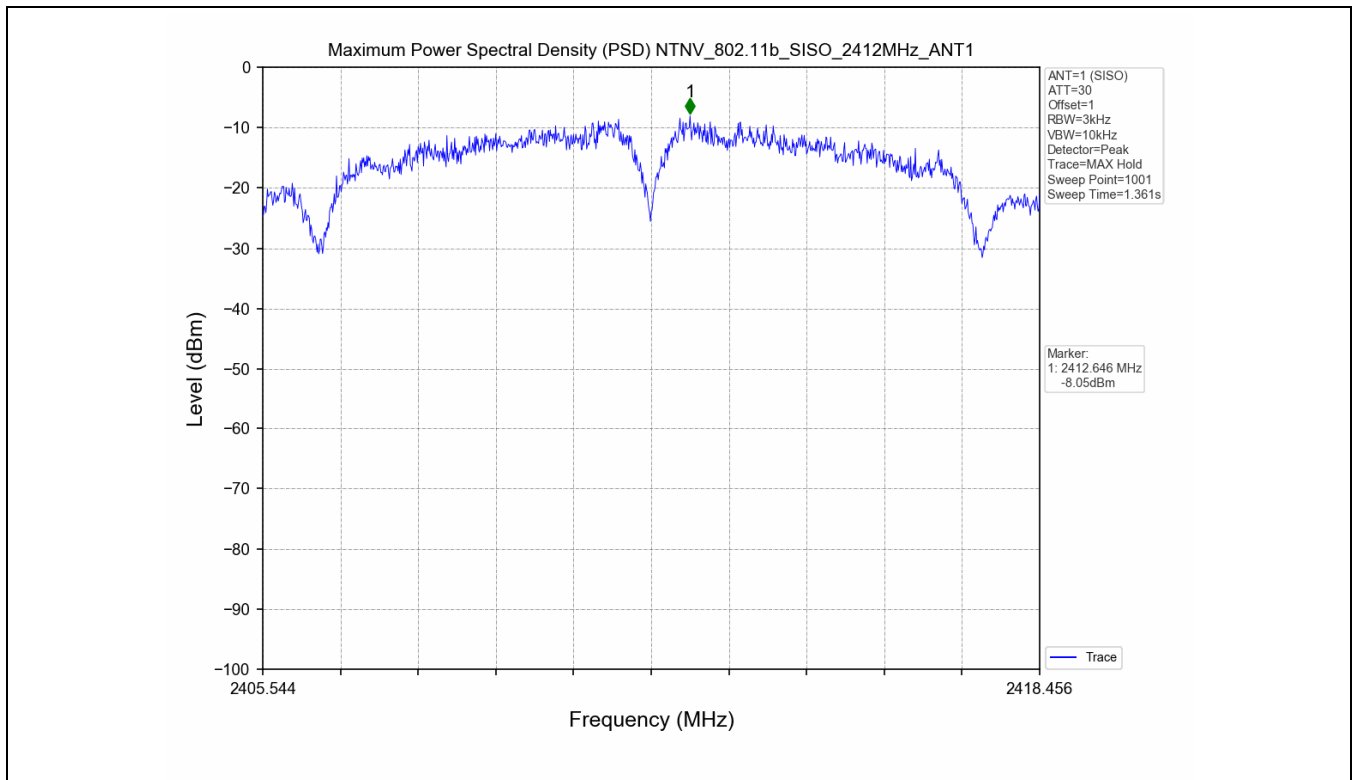
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4. Maximum Power Spectral Density (PSD)

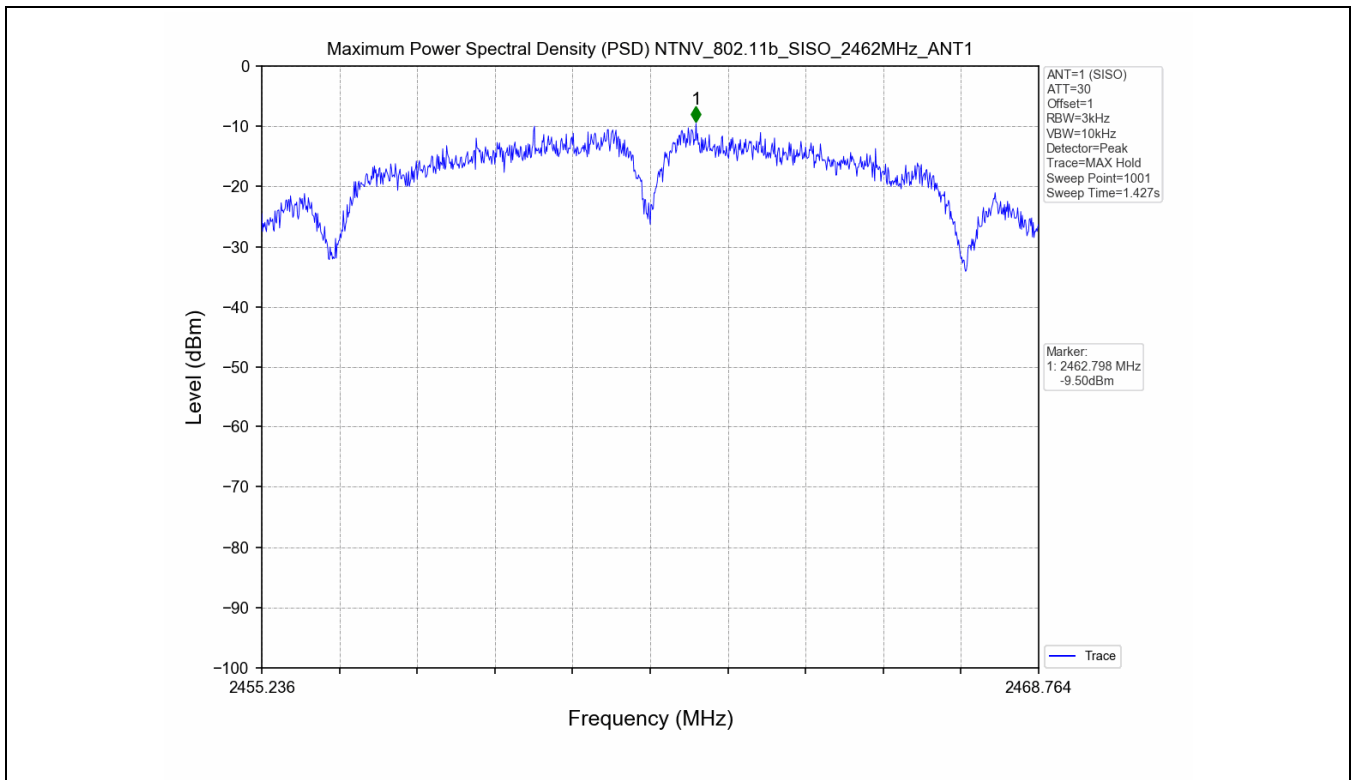
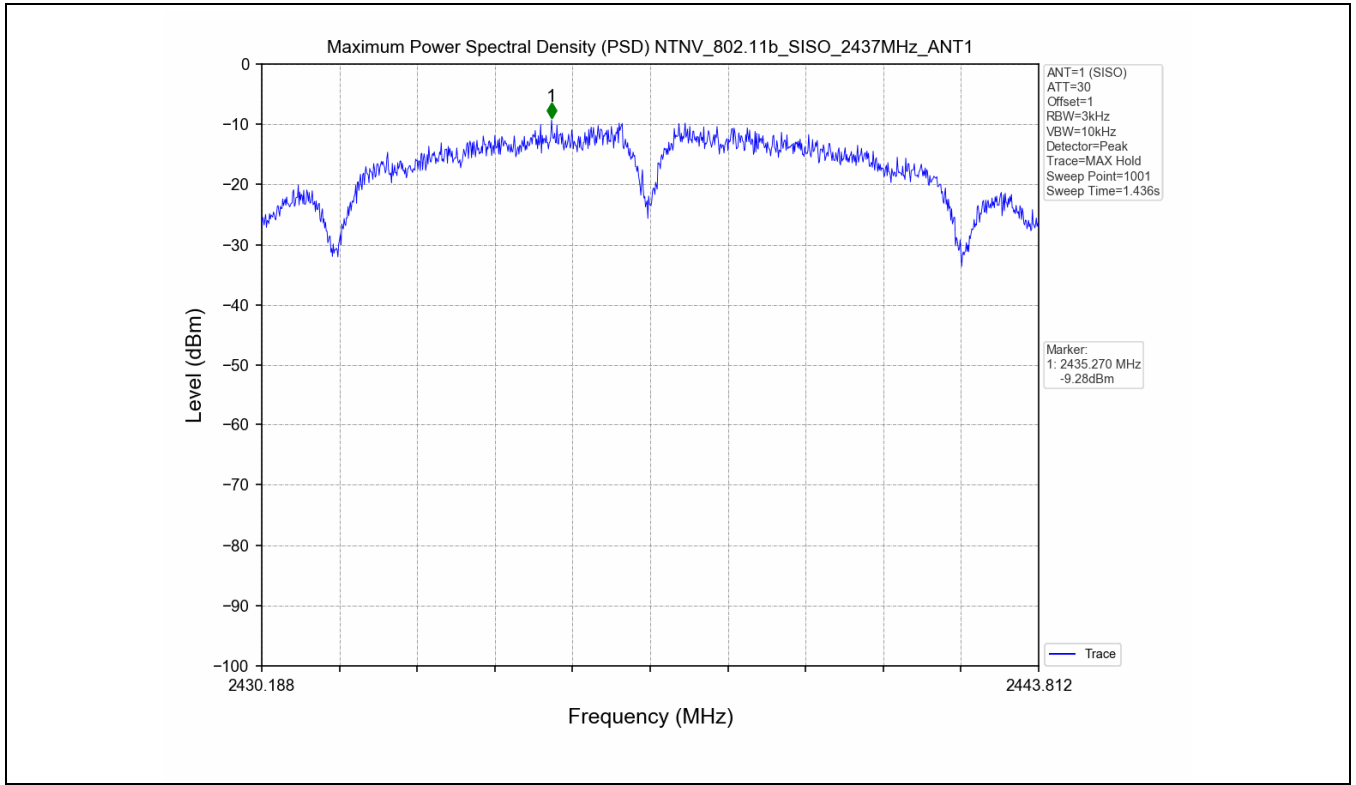
4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-8.05	≤8	PASS
	2437	SISO	-9.28	≤8	PASS
	2462	SISO	-9.50	≤8	PASS
802.11g	2412	SISO	-11.23	≤8	PASS
	2437	SISO	-11.93	≤8	PASS
	2462	SISO	-13.10	≤8	PASS
802.11n(HT20)	2412	SISO	-13.53	≤8	PASS
	2437	SISO	-14.14	≤8	PASS
	2462	SISO	-14.55	≤8	PASS
802.11n(HT40)	2422	SISO	-16.91	≤8	PASS
	2437	SISO	-16.82	≤8	PASS
	2452	SISO	-16.85	≤8	PASS

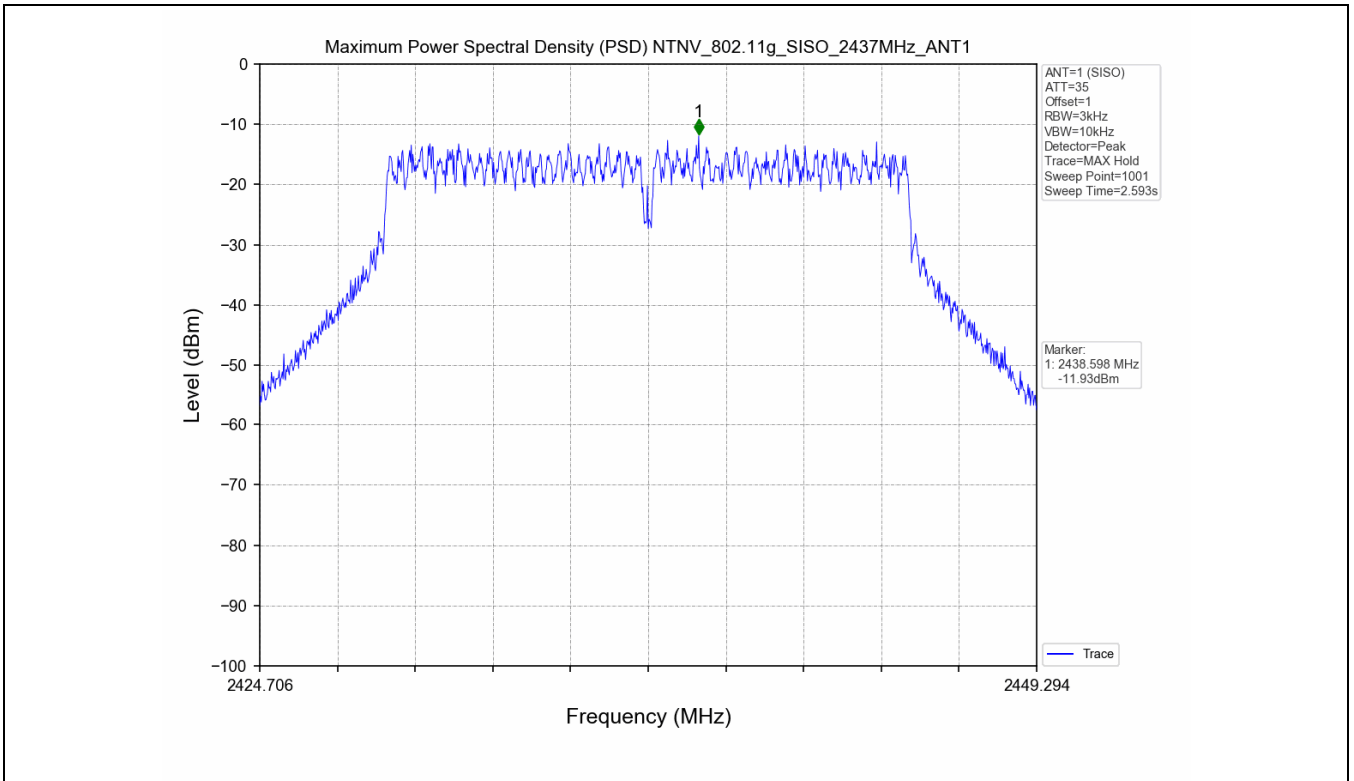
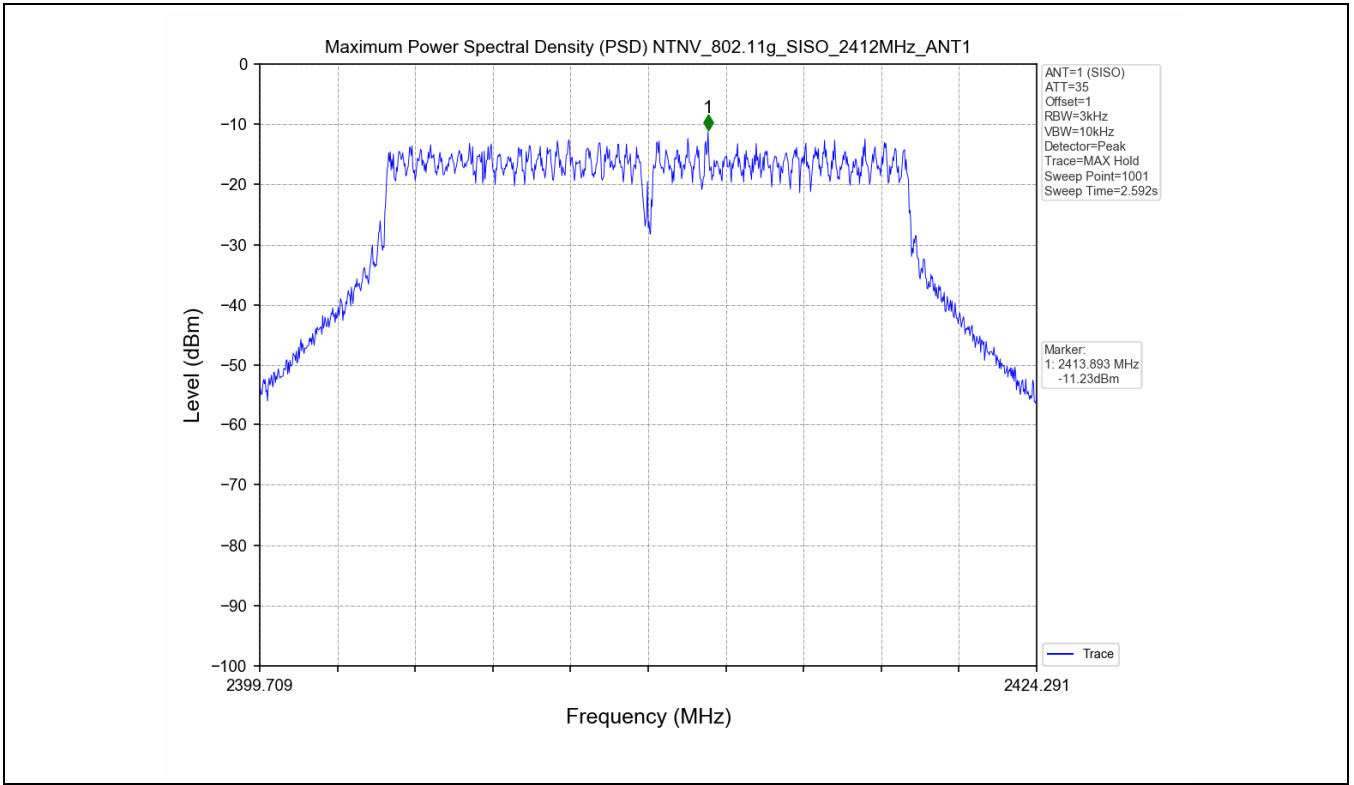
4.2 Test Graph



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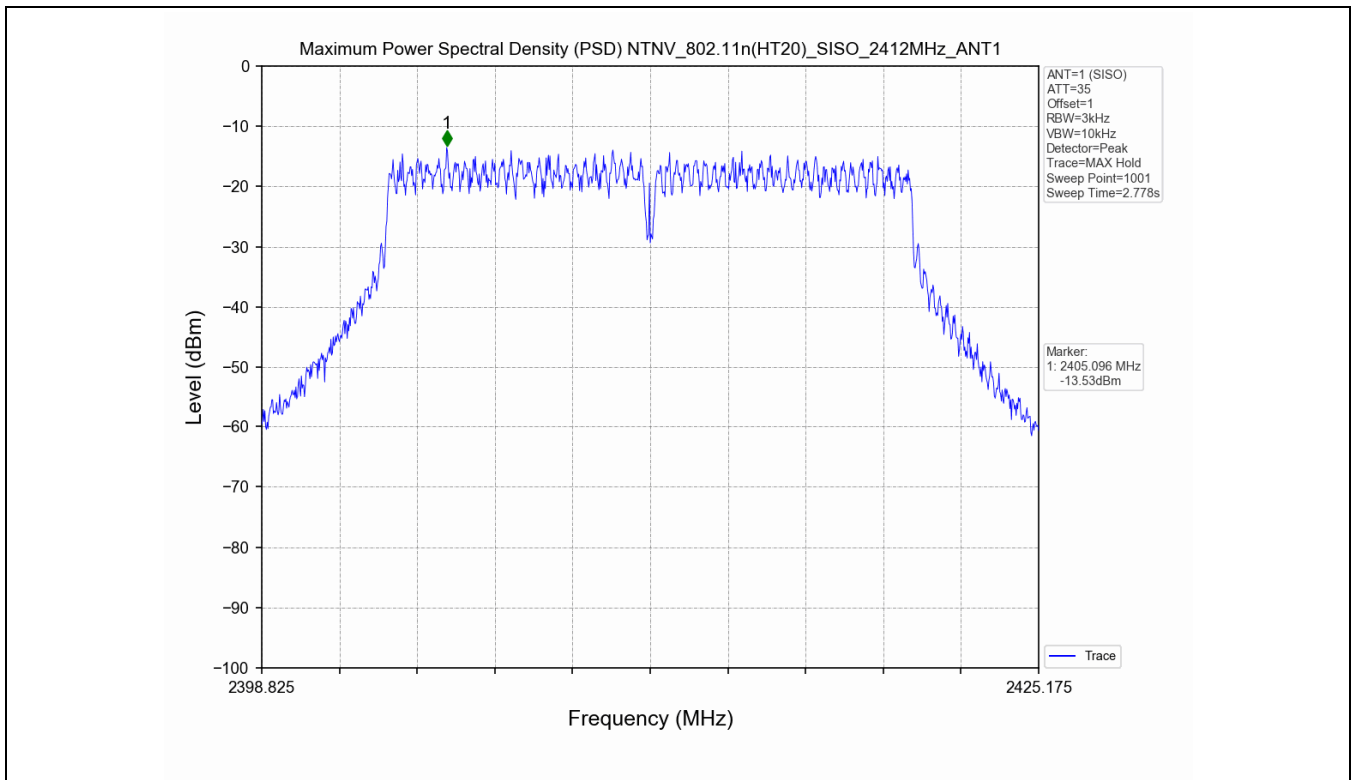
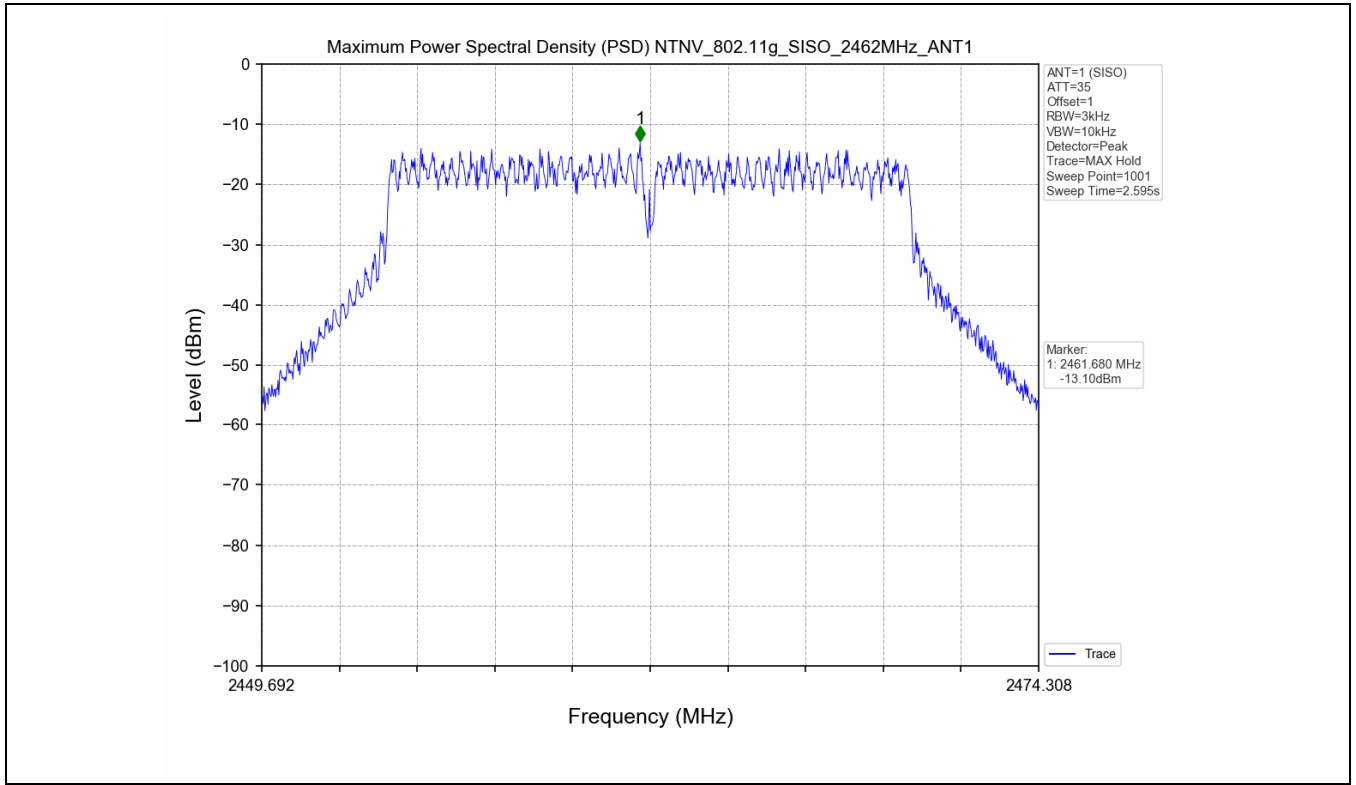


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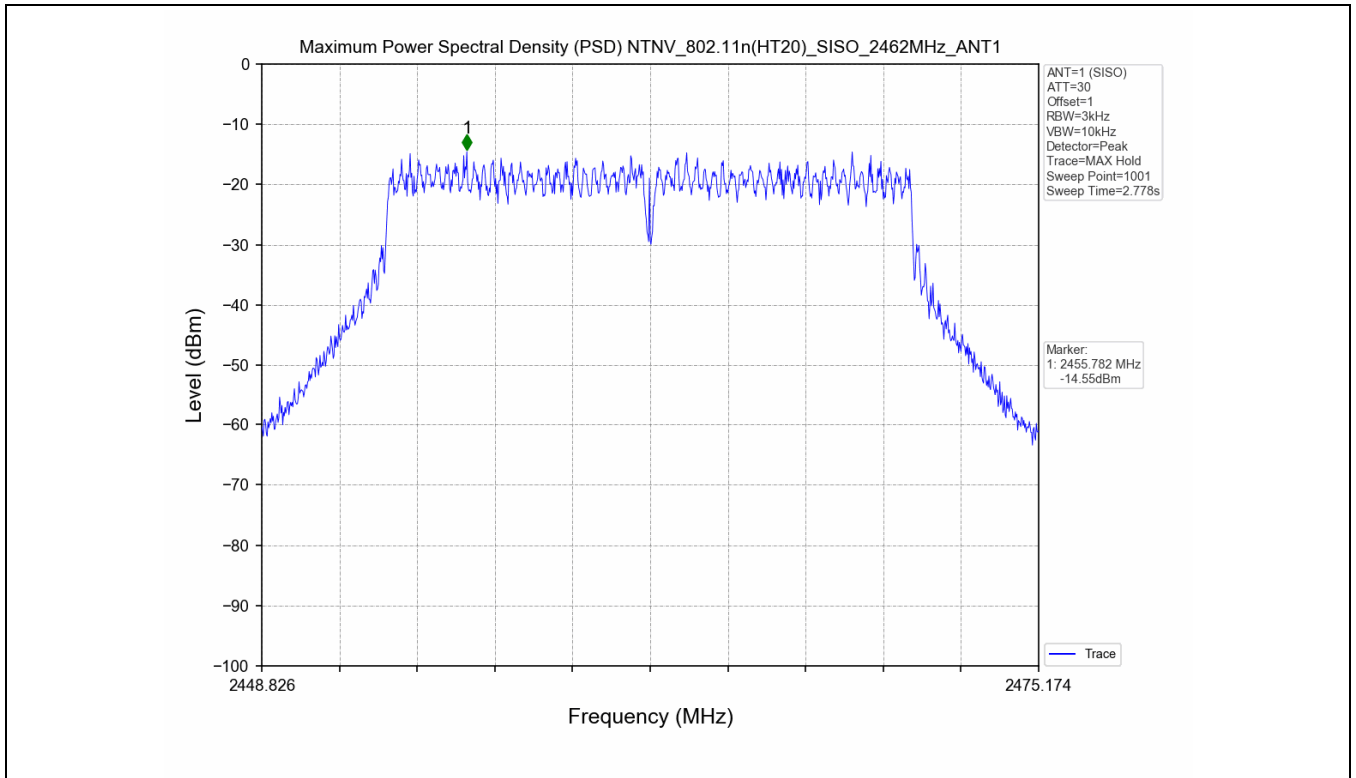
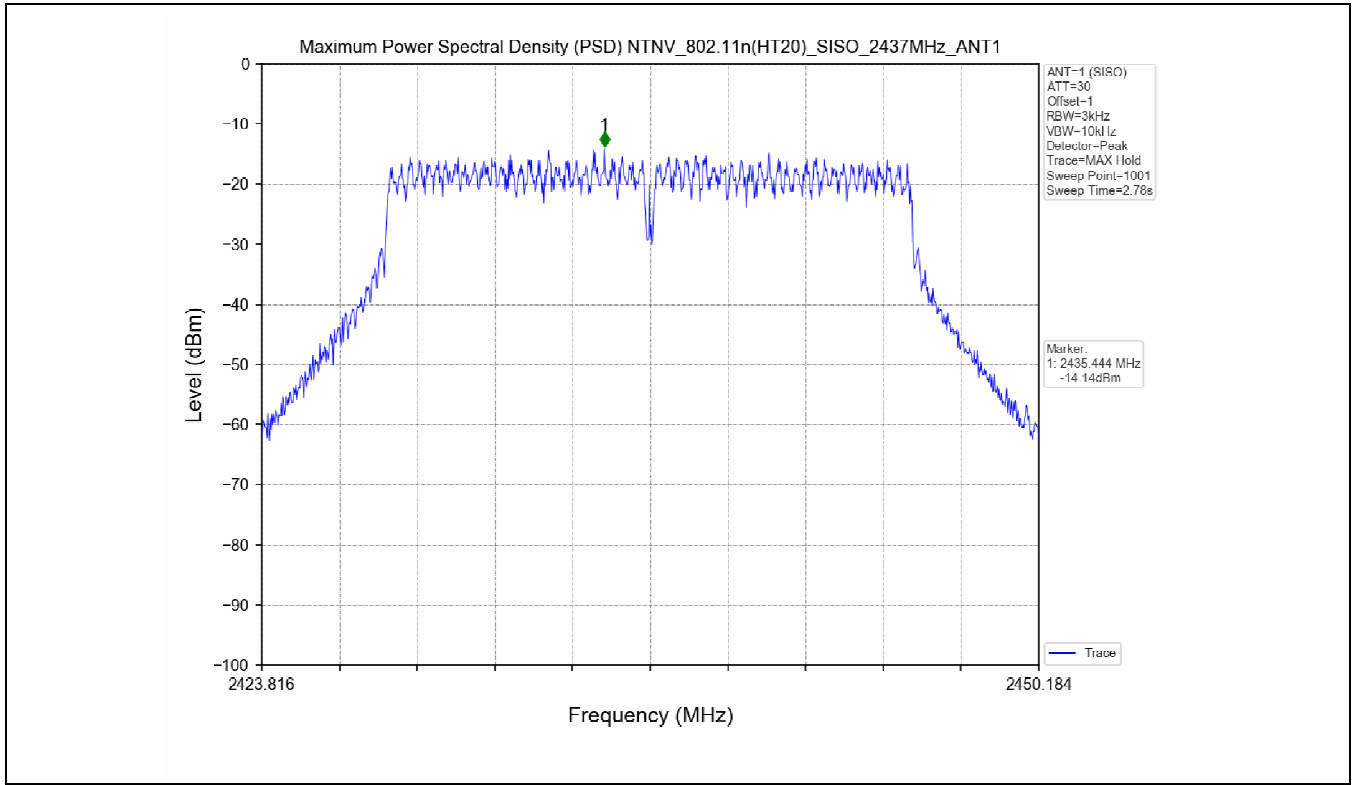
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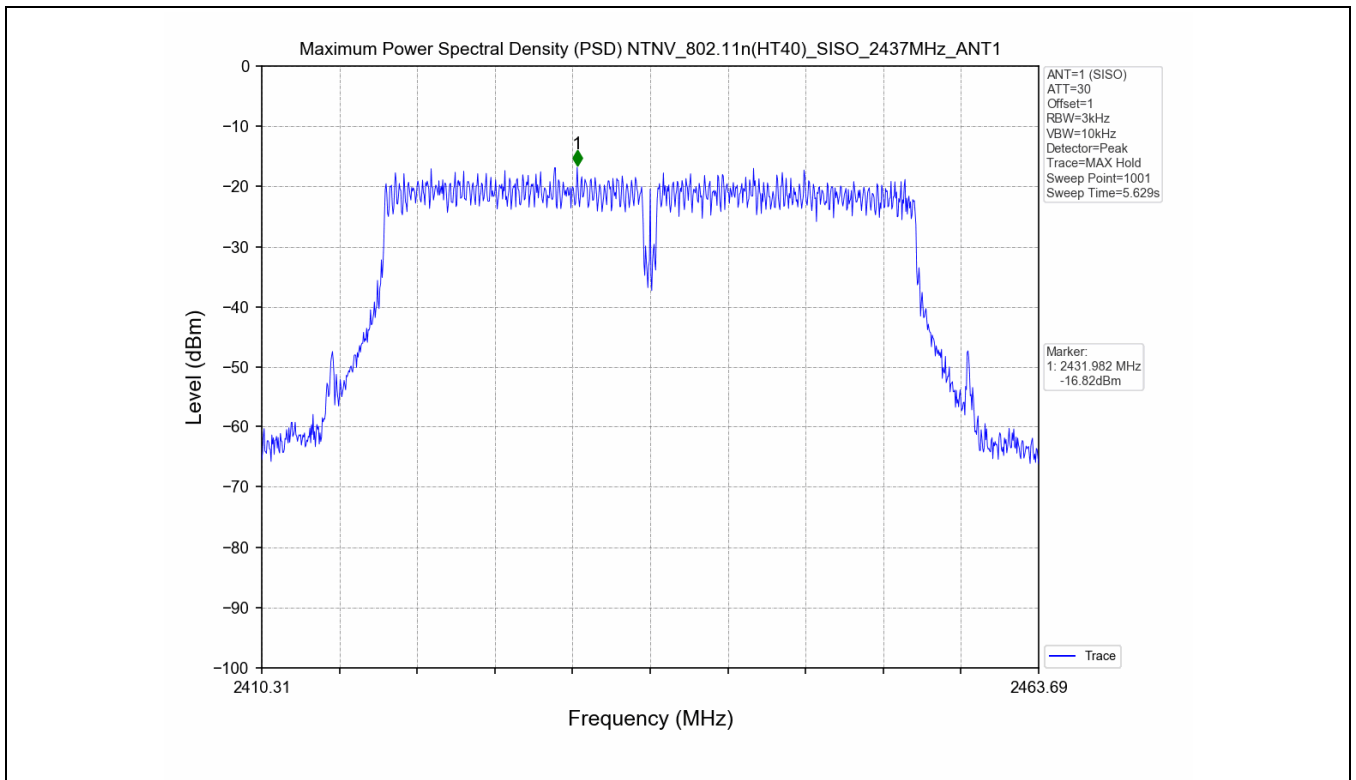
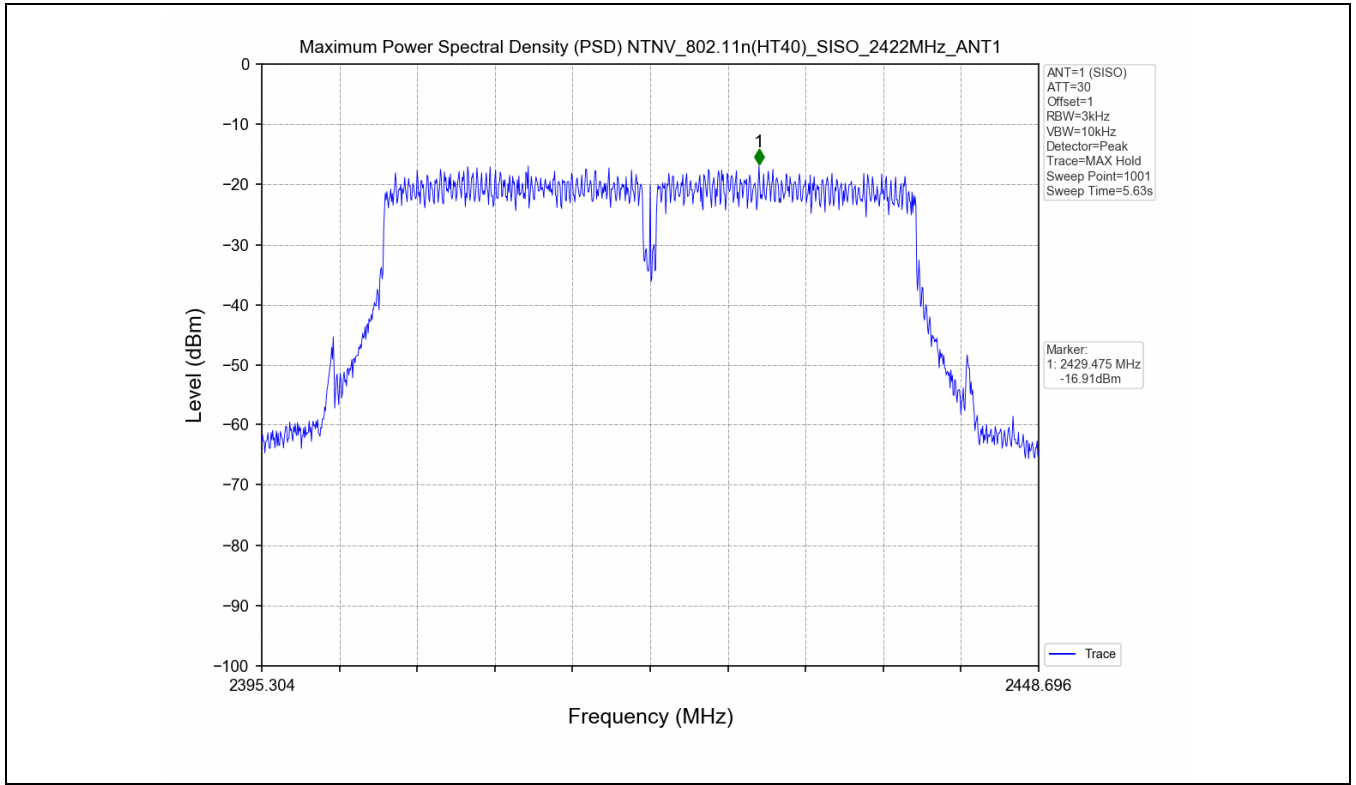
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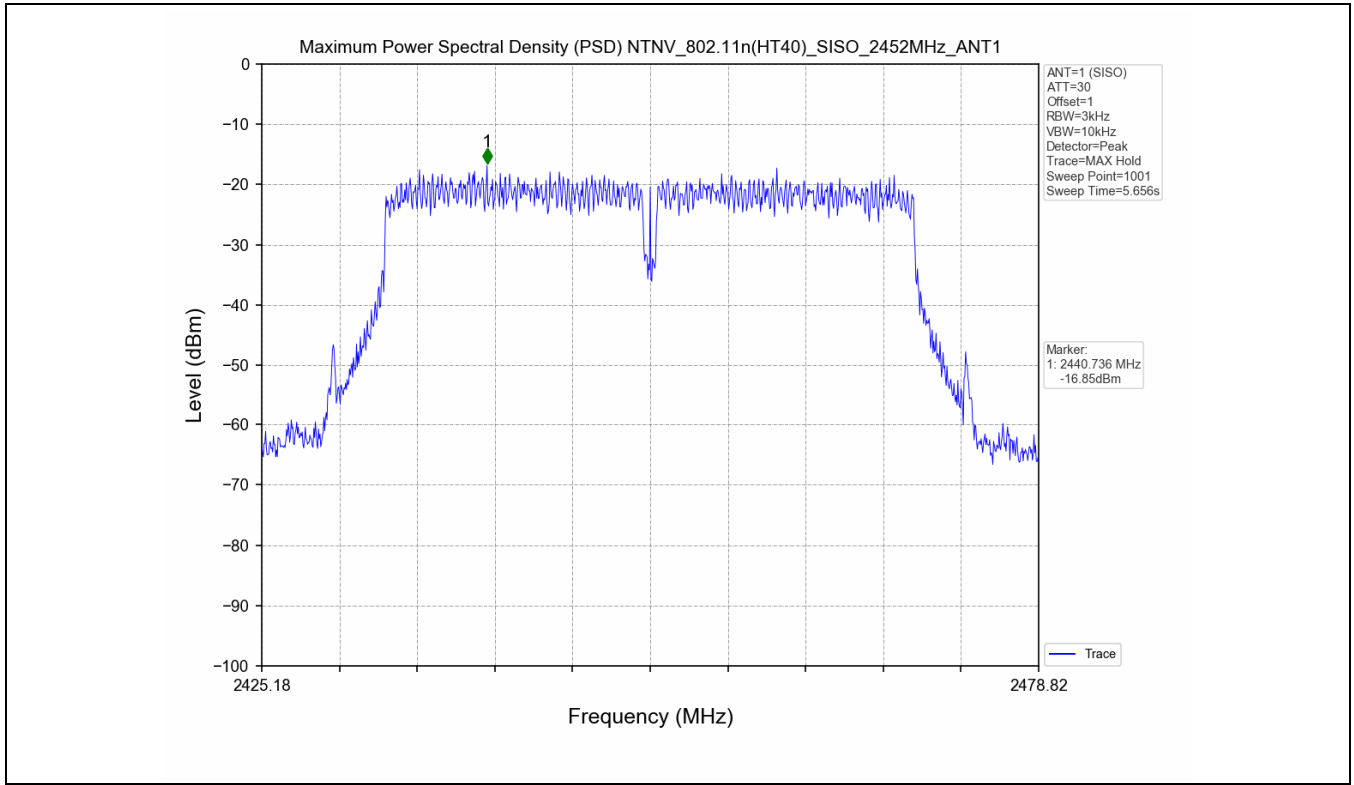
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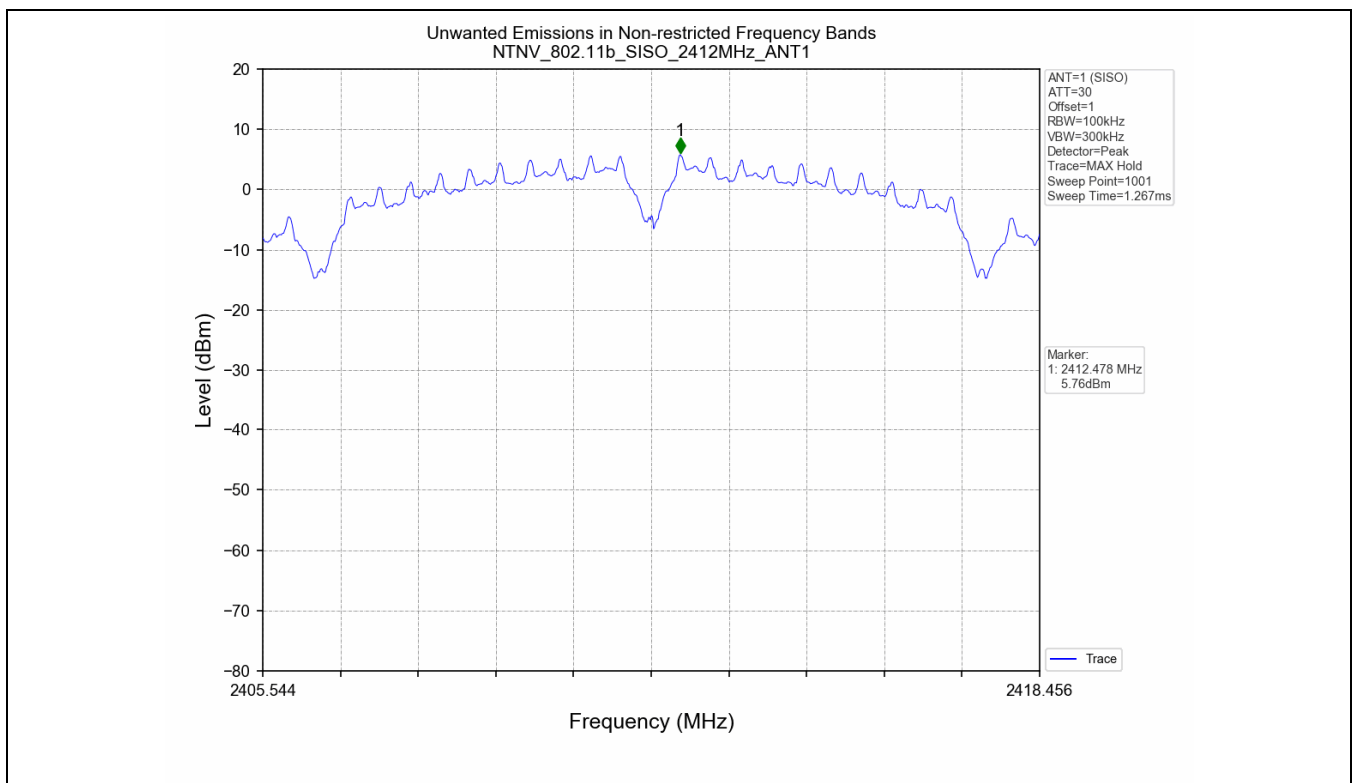
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

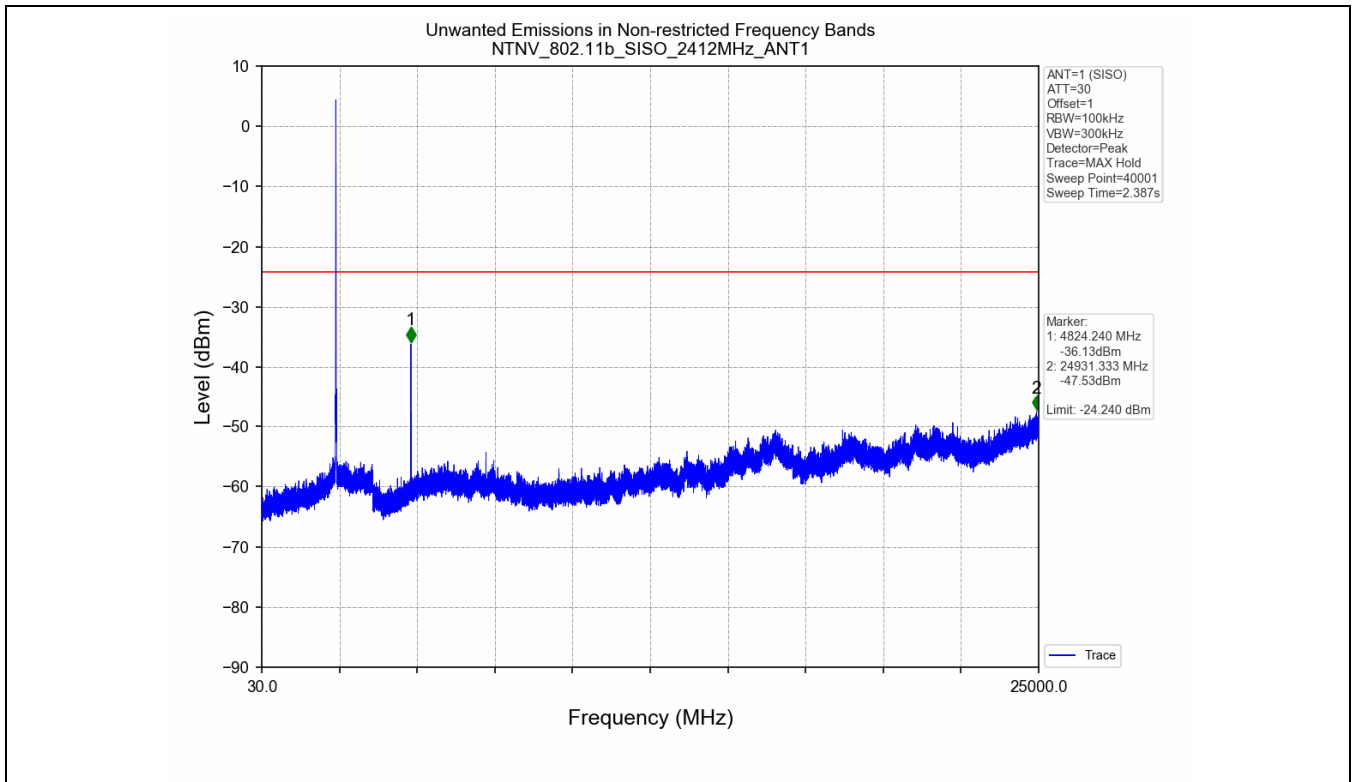
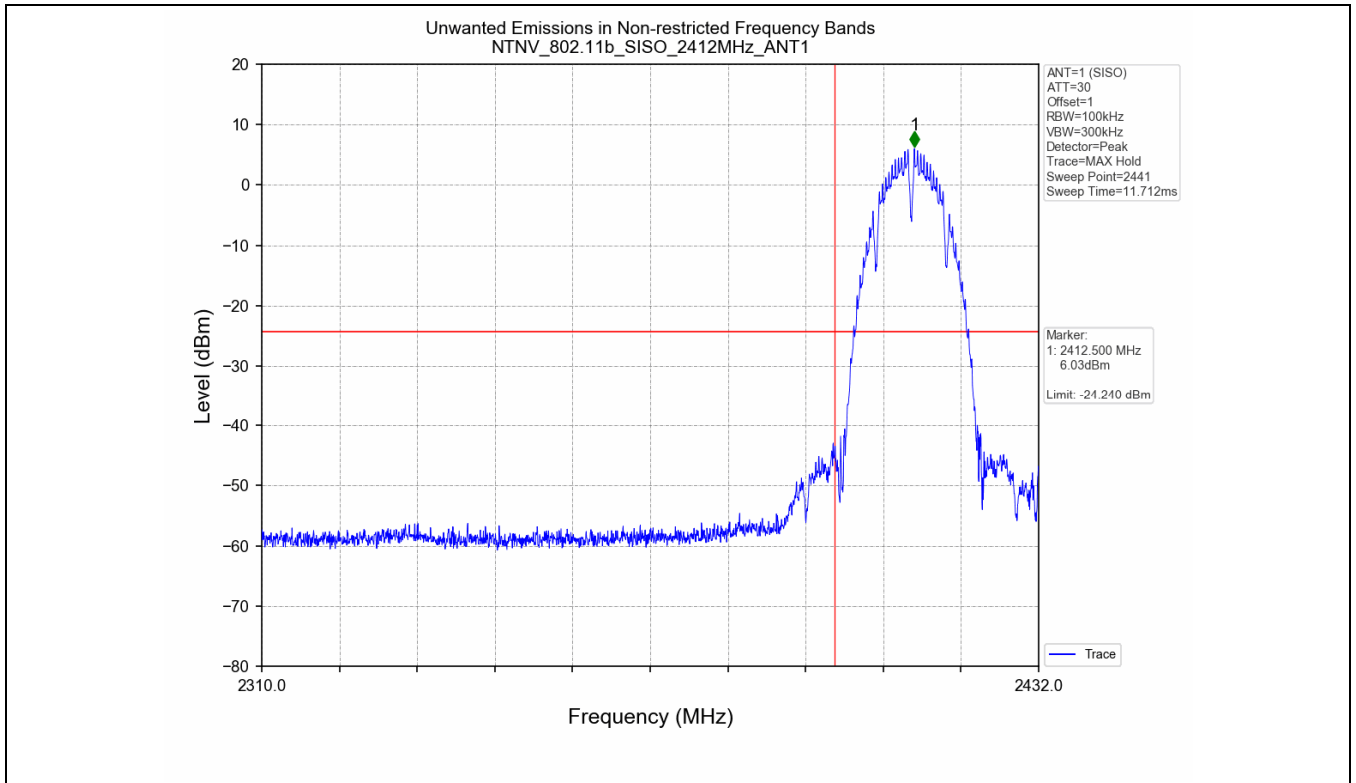
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-24.24	PASS
	2437	SISO	1	Refer to test graph	-24.24	PASS
	2462	SISO	1	Refer to test graph	-24.24	PASS
802.11g	2412	SISO	1	Refer to test graph	-27.75	PASS
	2437	SISO	1	Refer to test graph	-27.75	PASS
	2462	SISO	1	Refer to test graph	-27.75	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-29.25	PASS
	2437	SISO	1	Refer to test graph	-29.25	PASS
	2462	SISO	1	Refer to test graph	-29.25	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-31.96	PASS
	2437	SISO	1	Refer to test graph	-31.96	PASS
	2452	SISO	1	Refer to test graph	-31.96	PASS

5.2 Test Graph



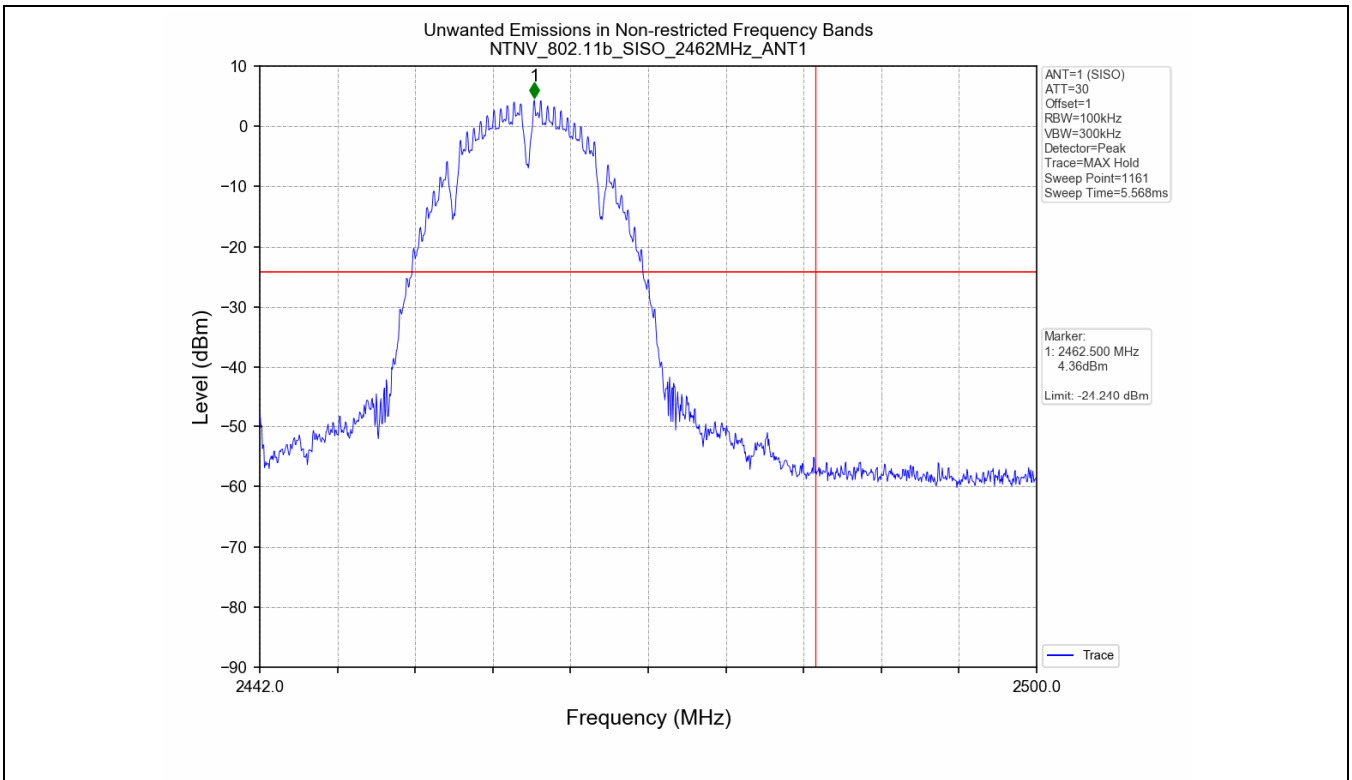
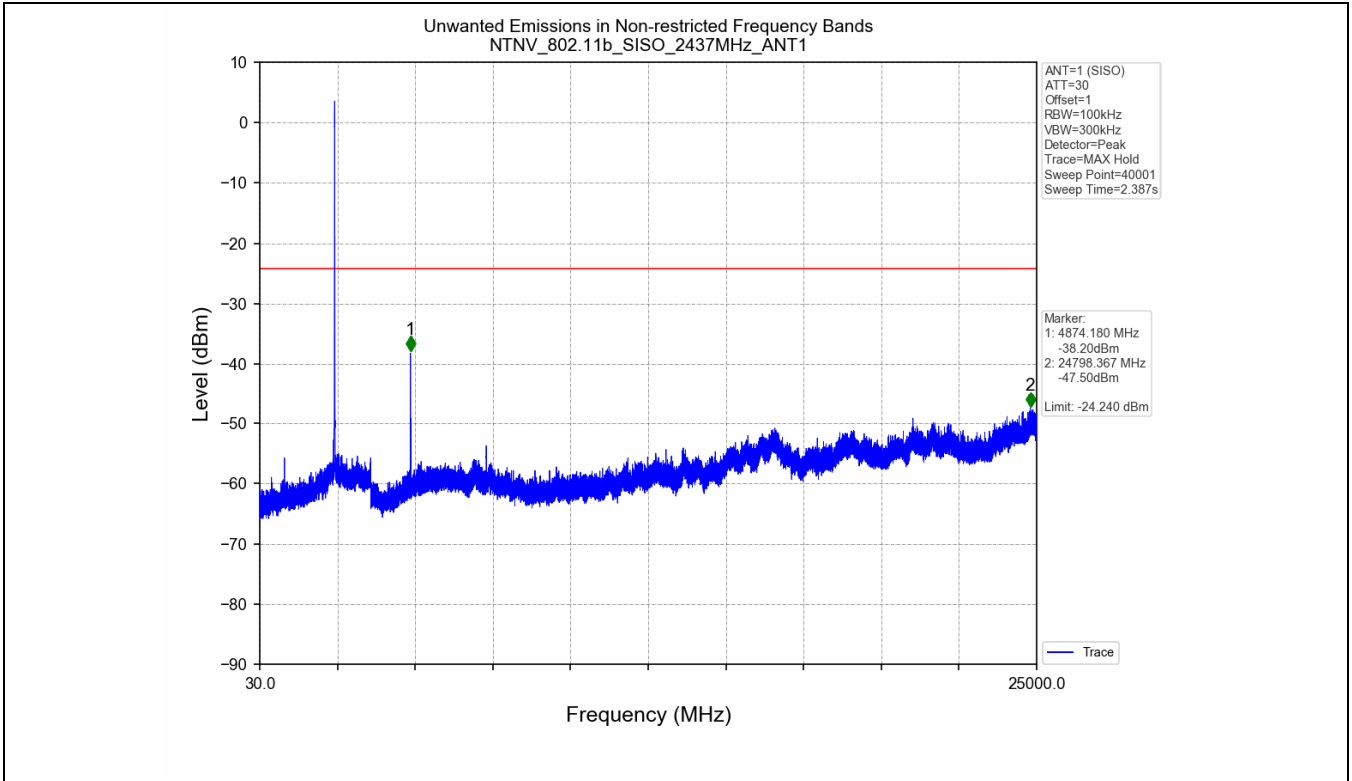
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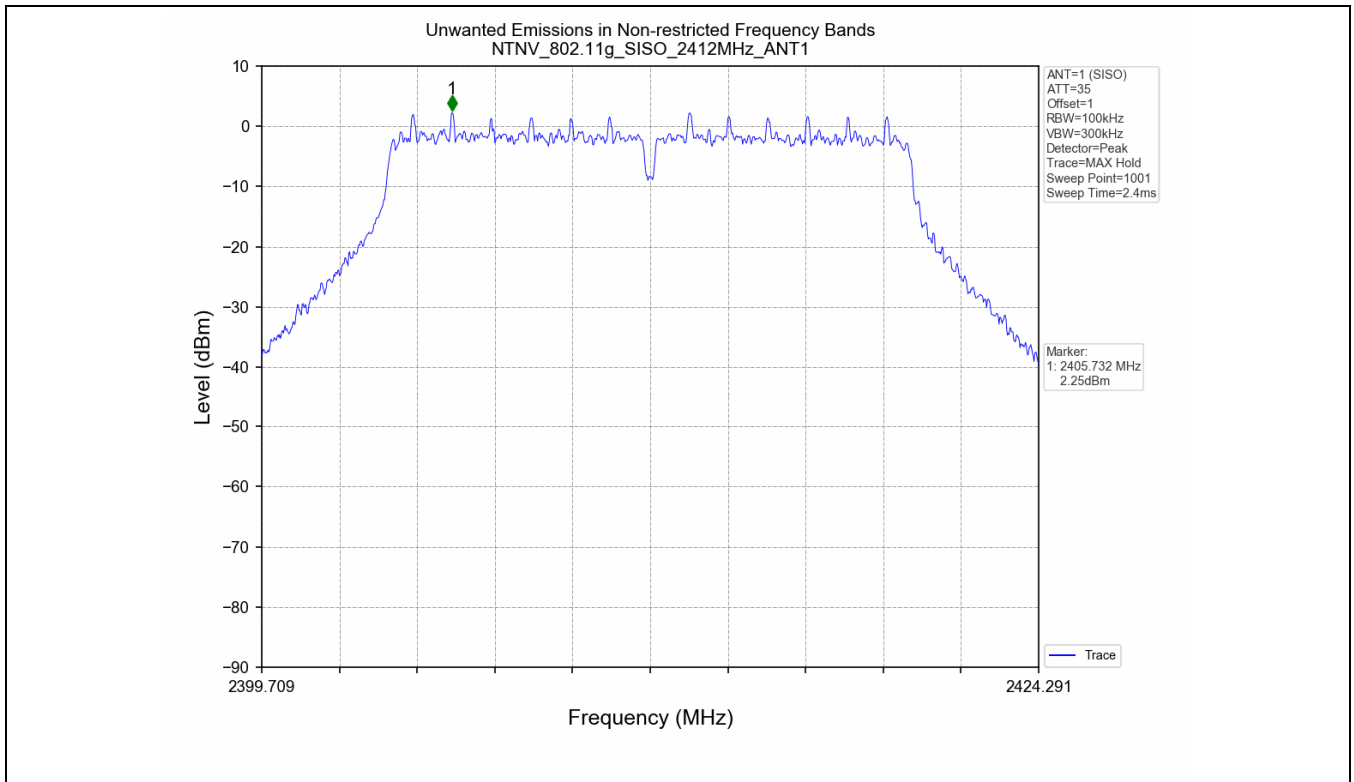
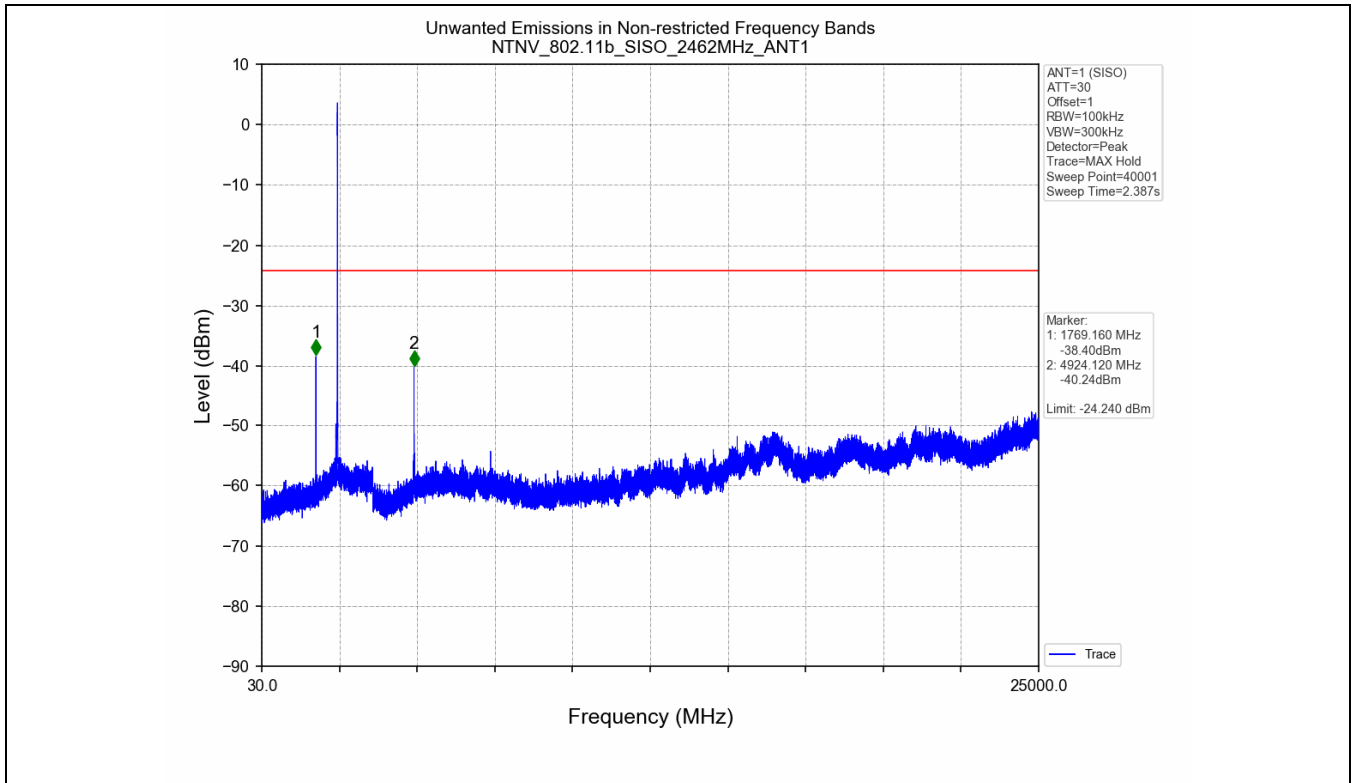
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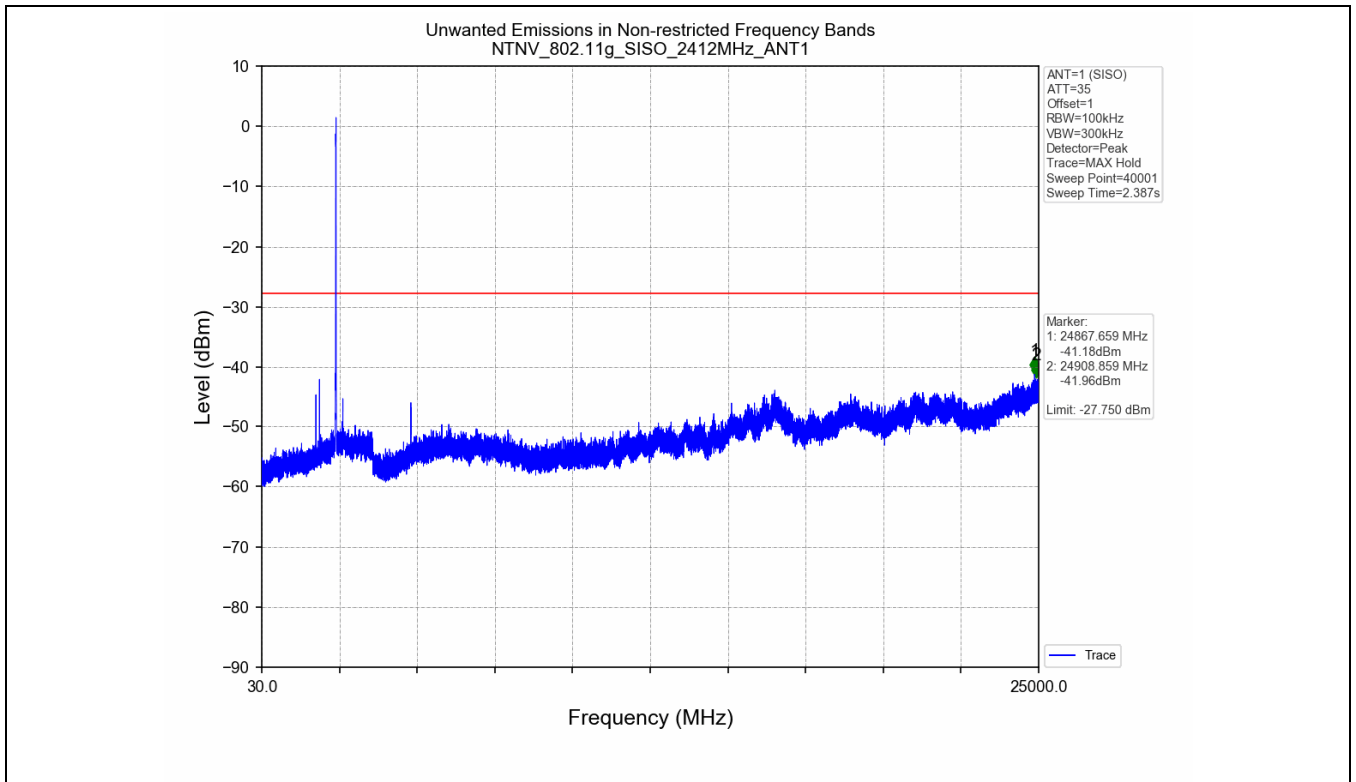
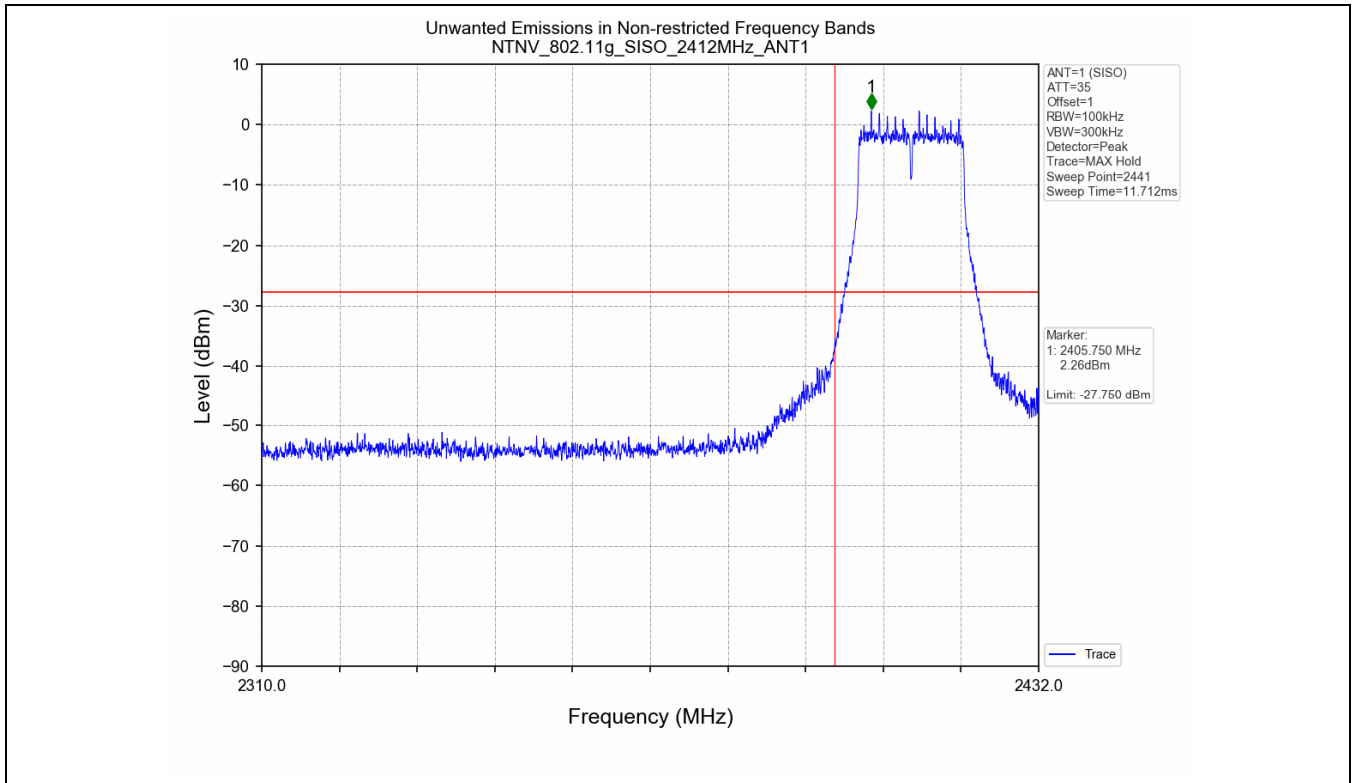


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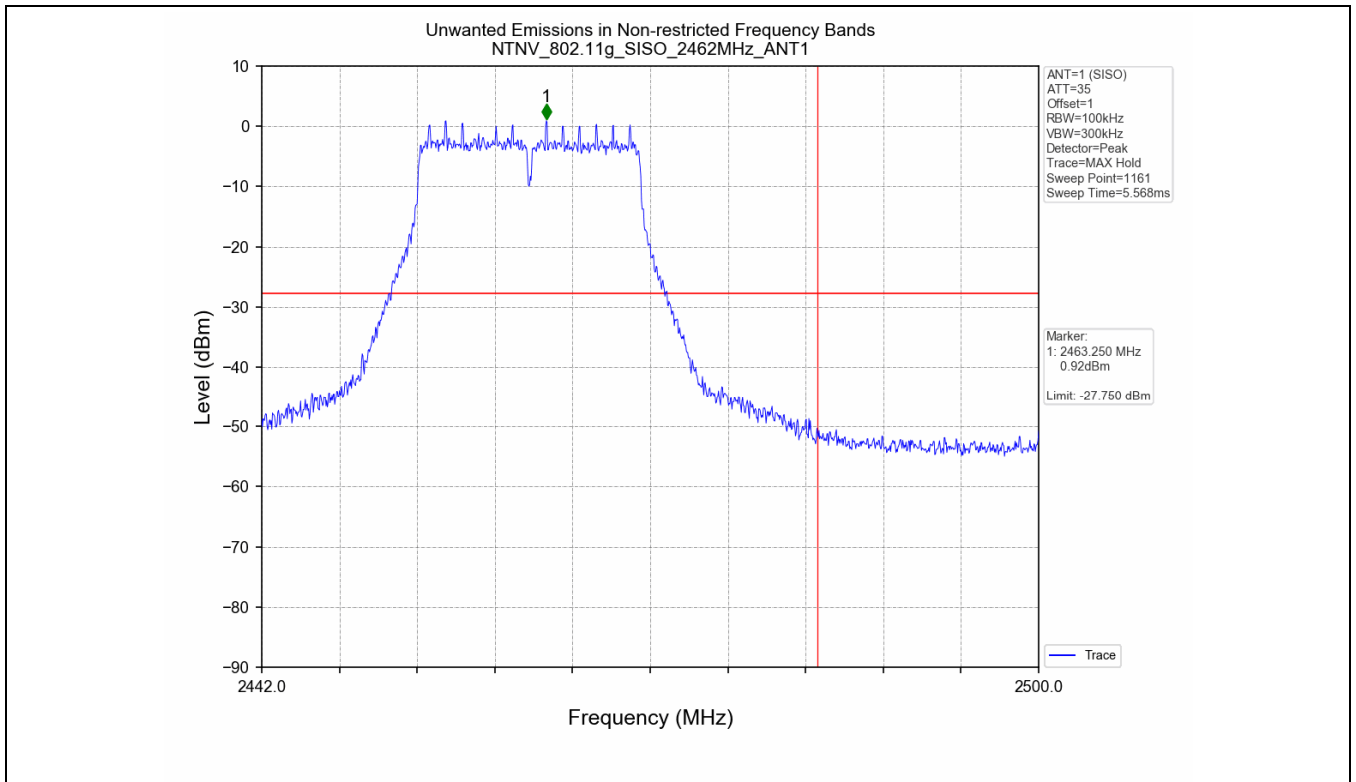
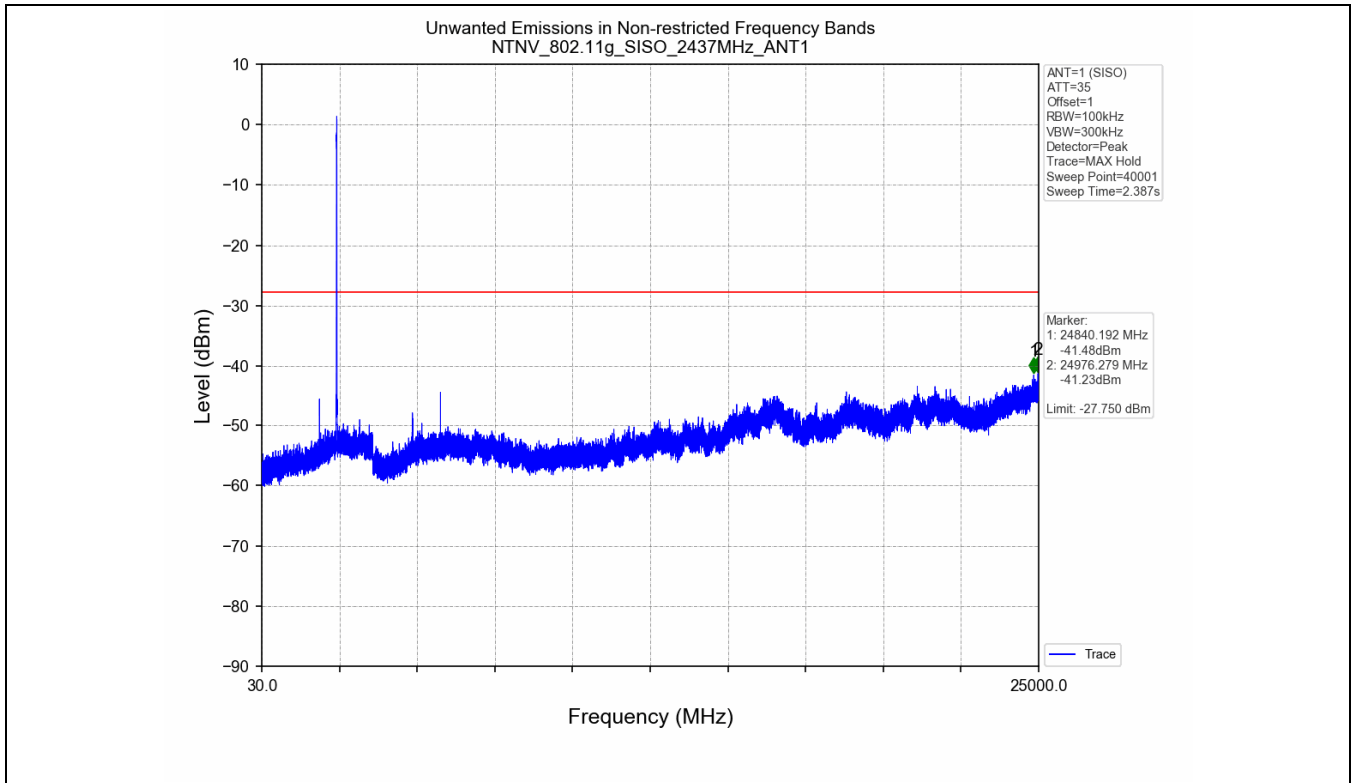


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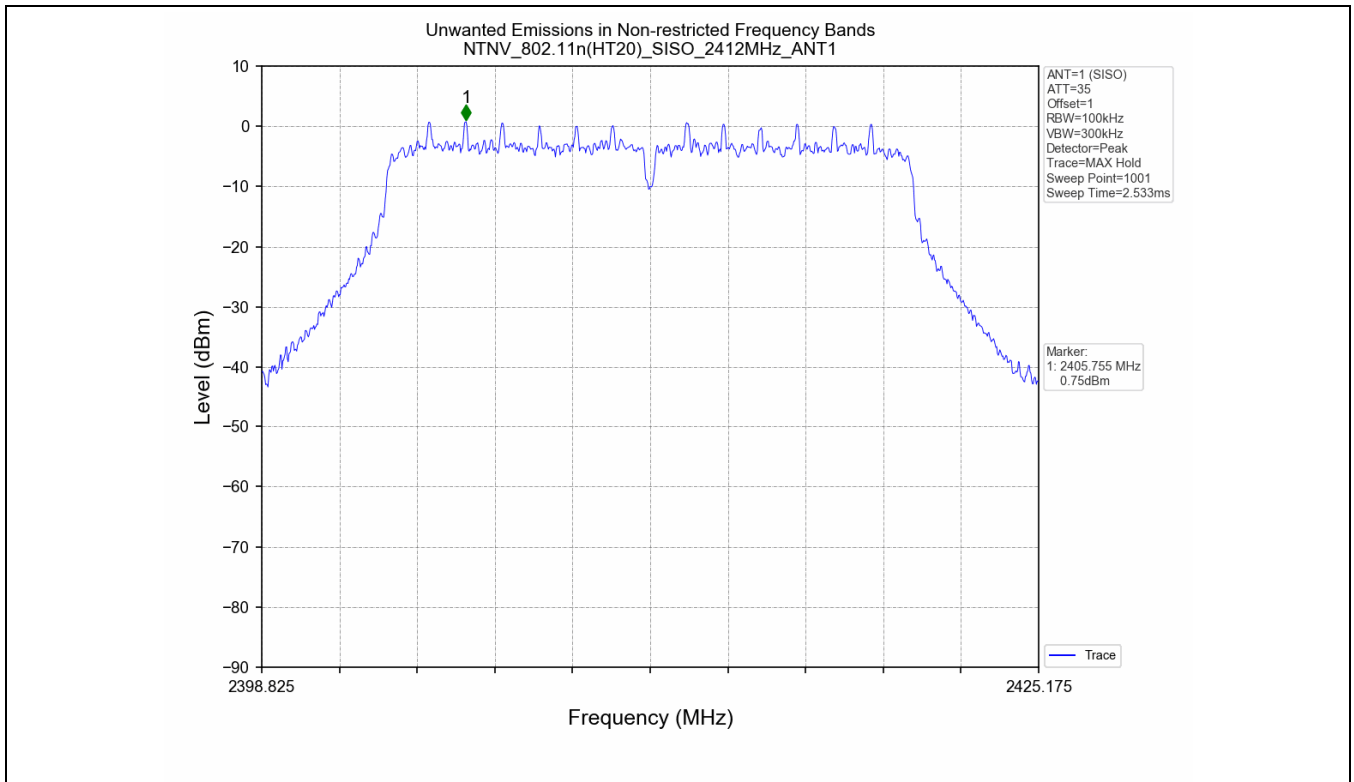
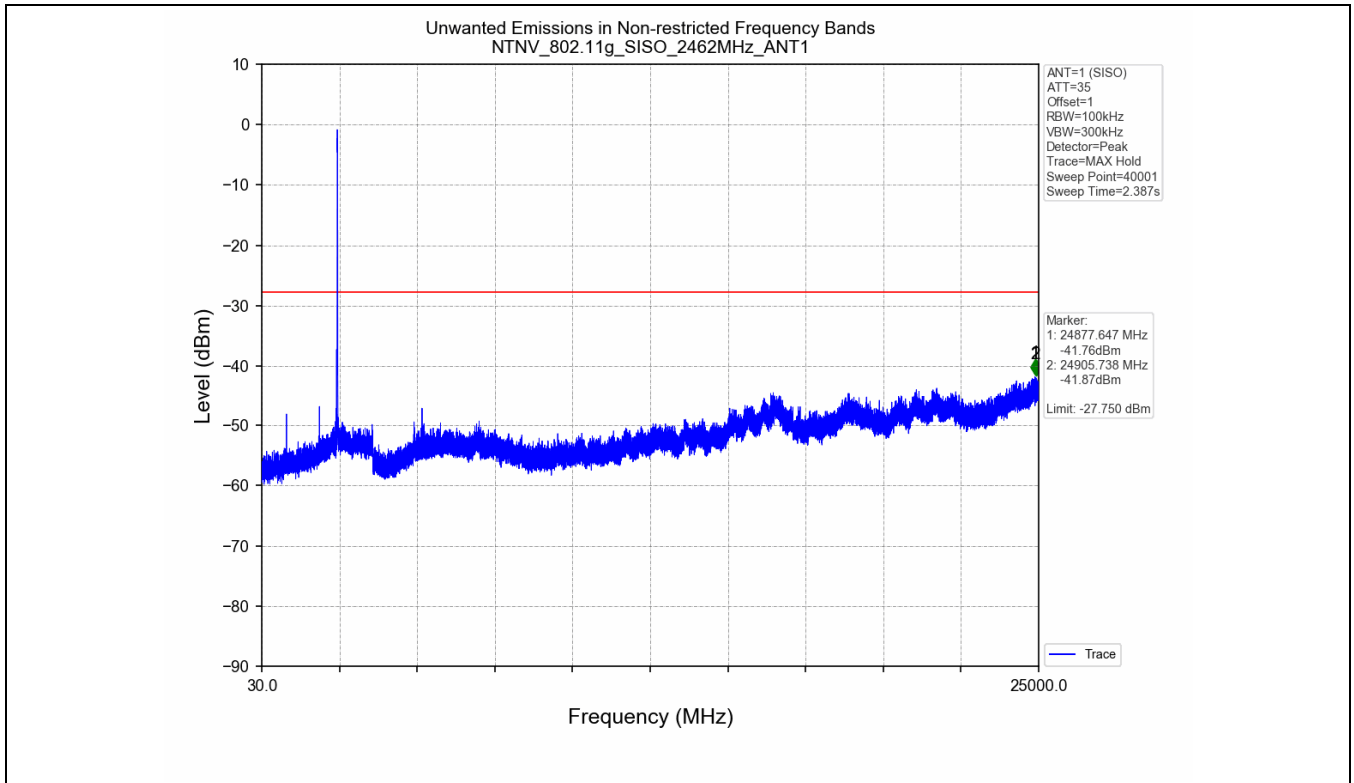
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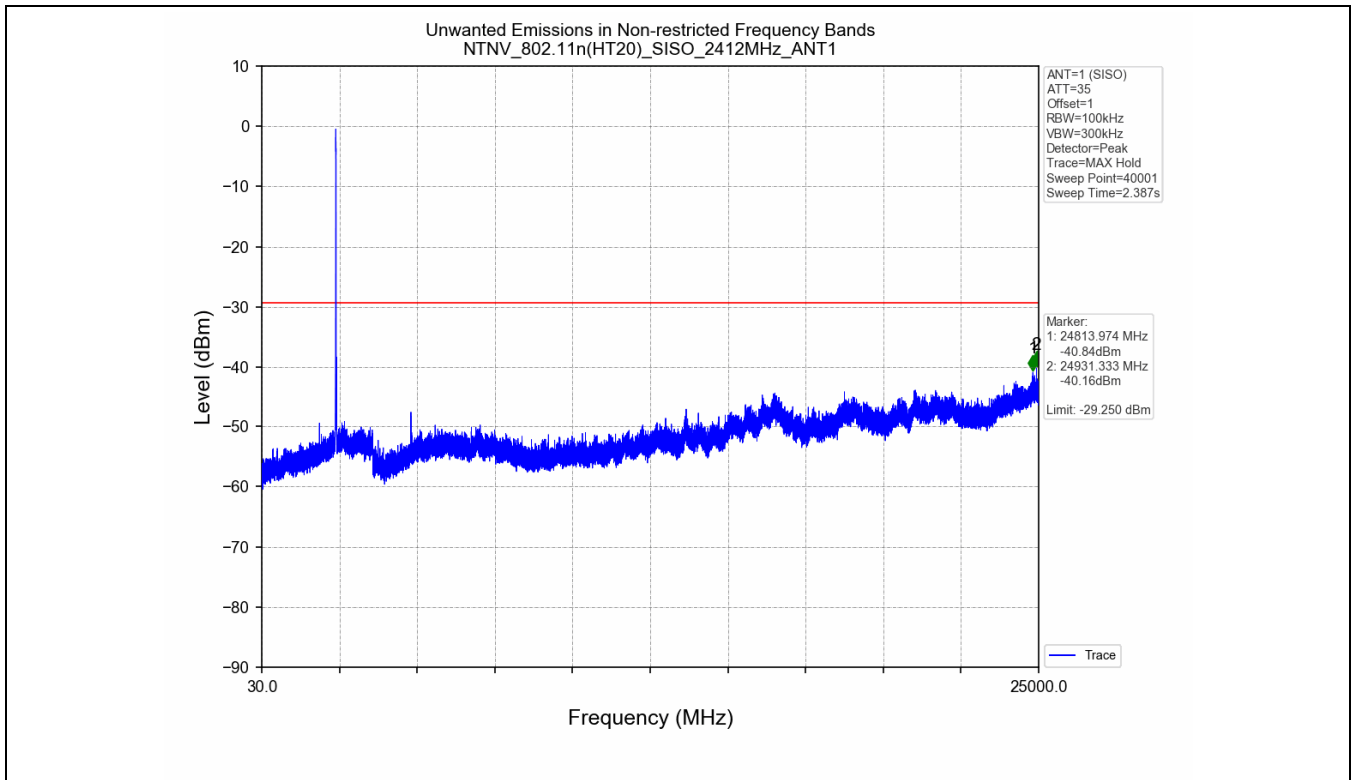
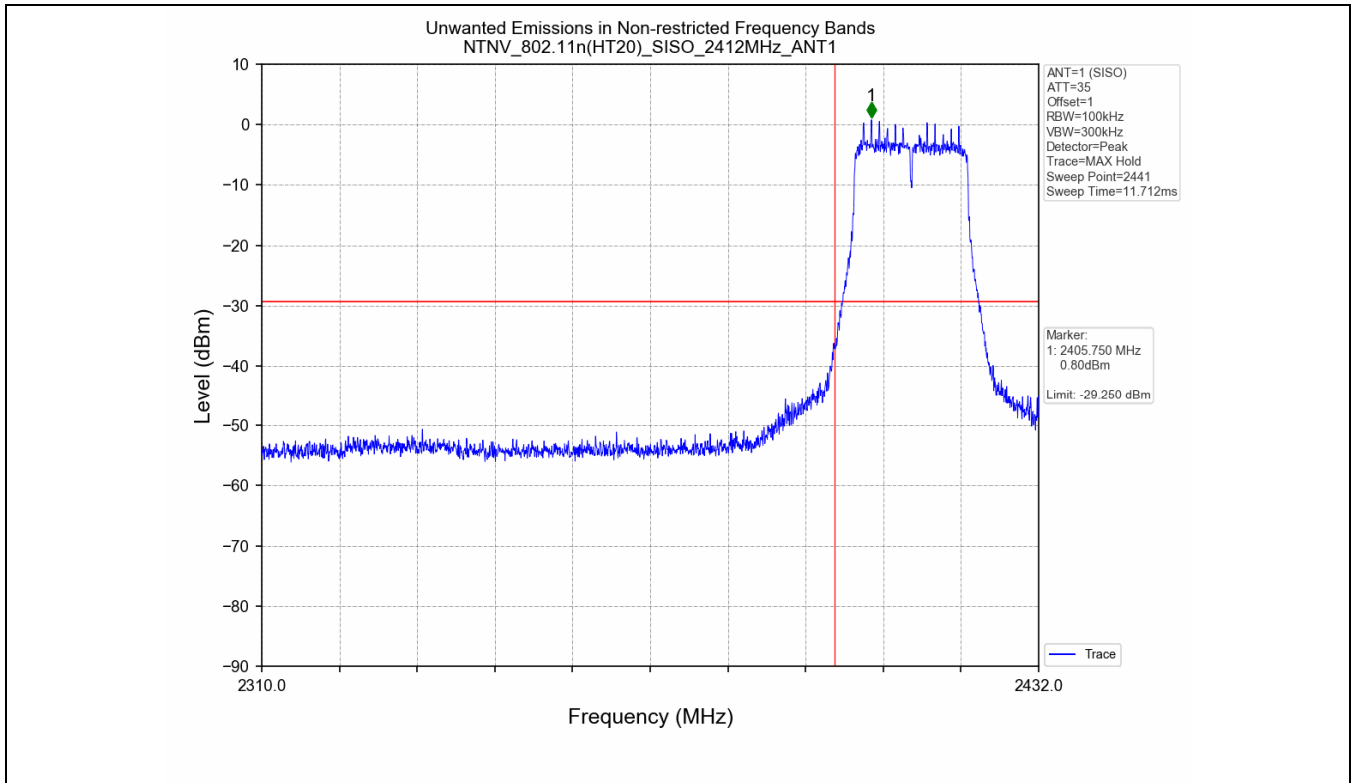
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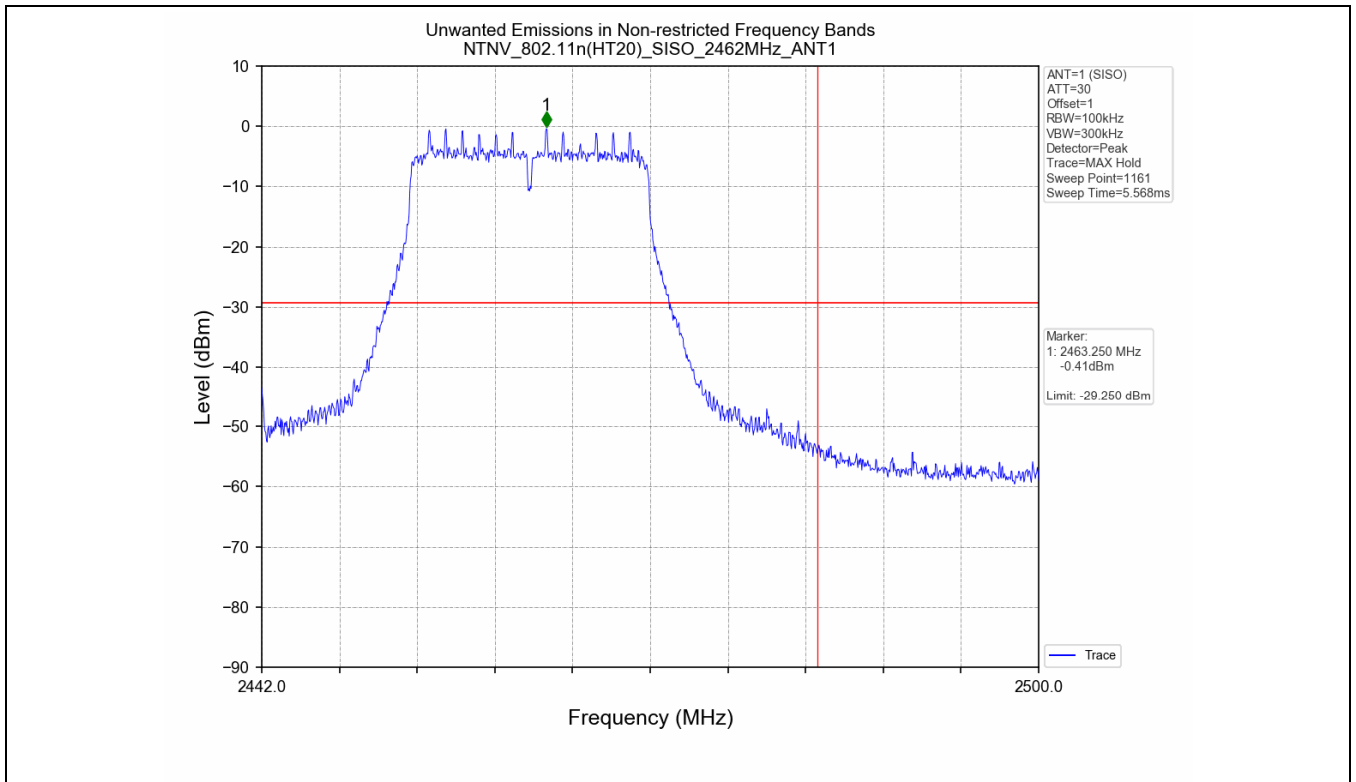
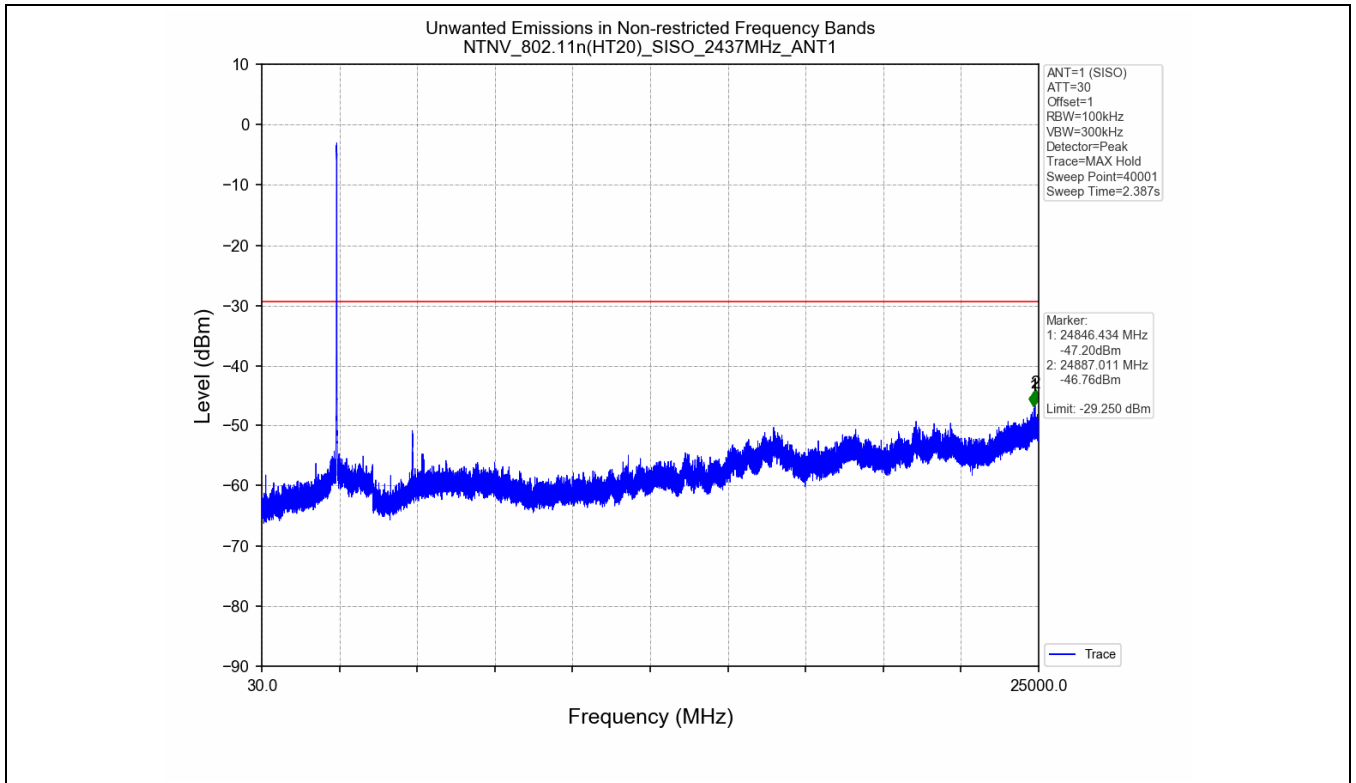
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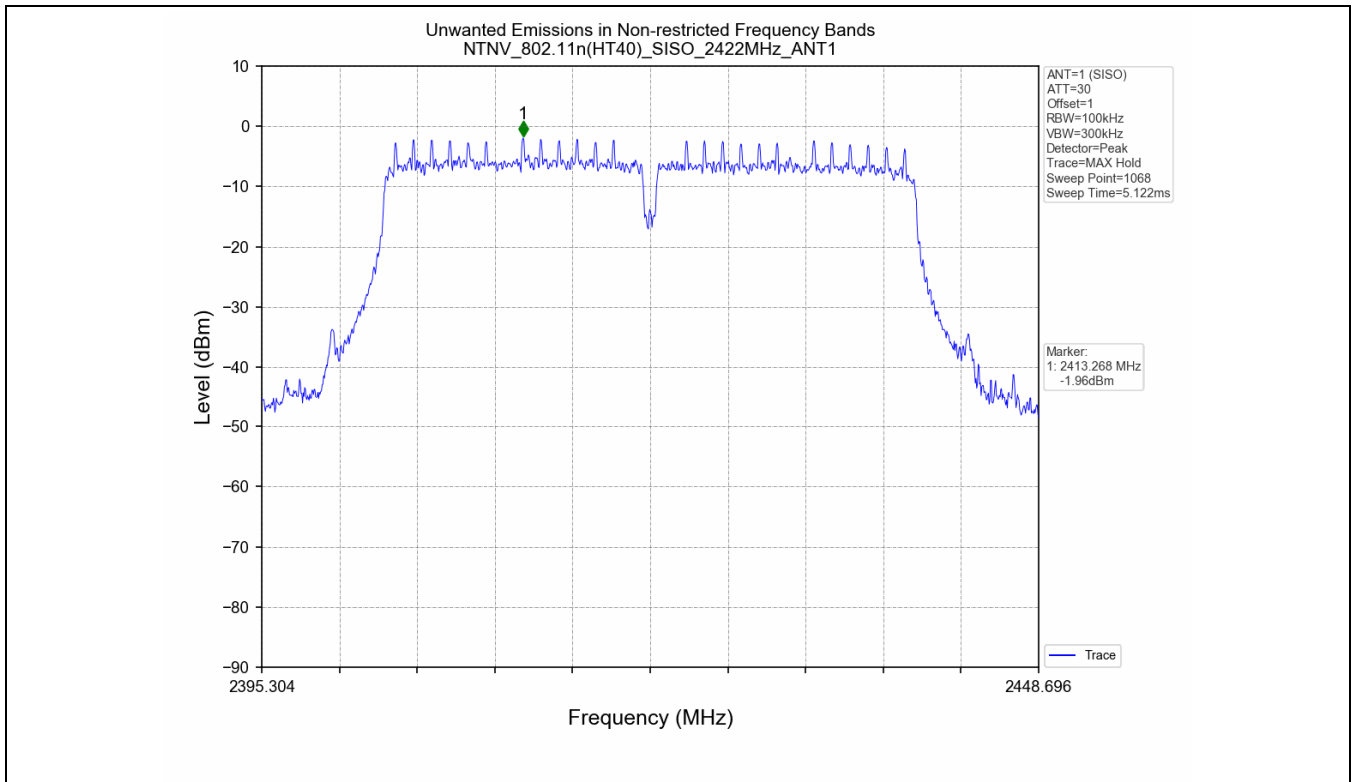
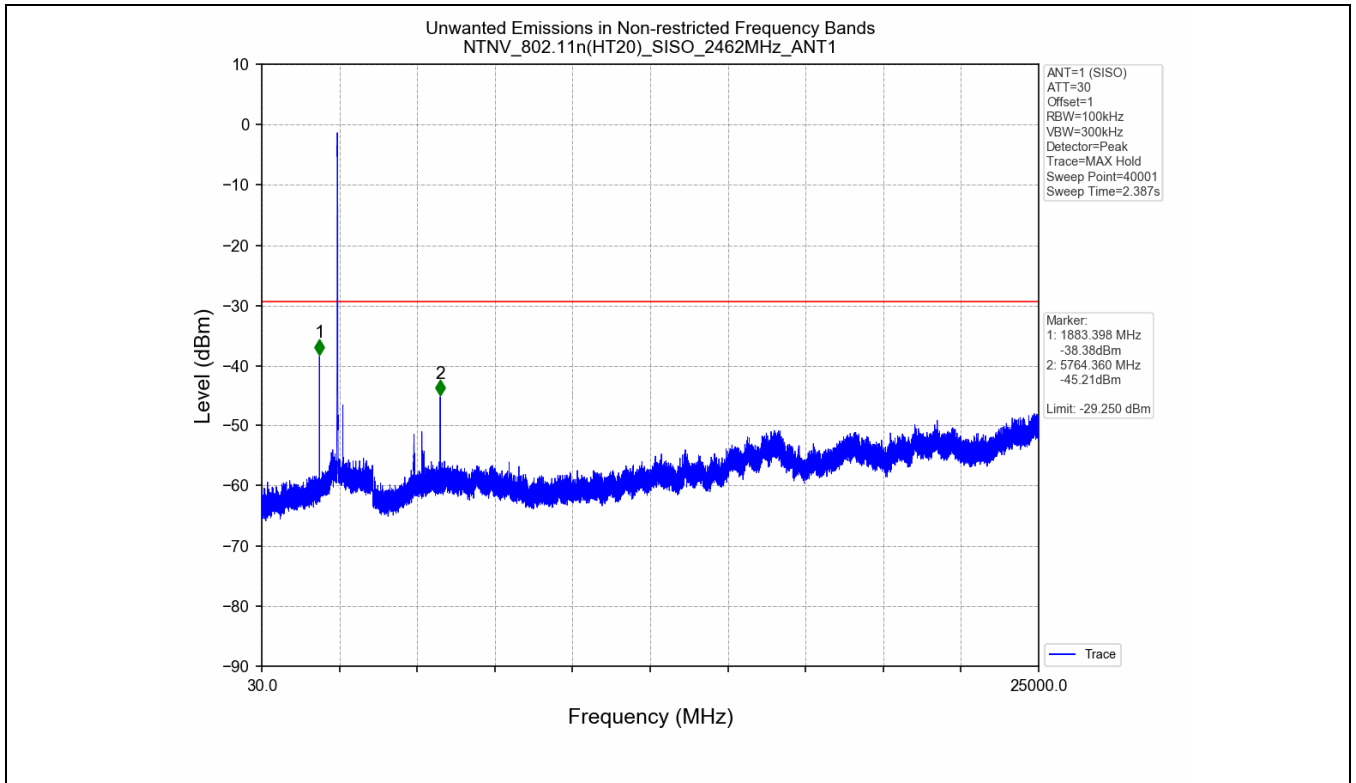
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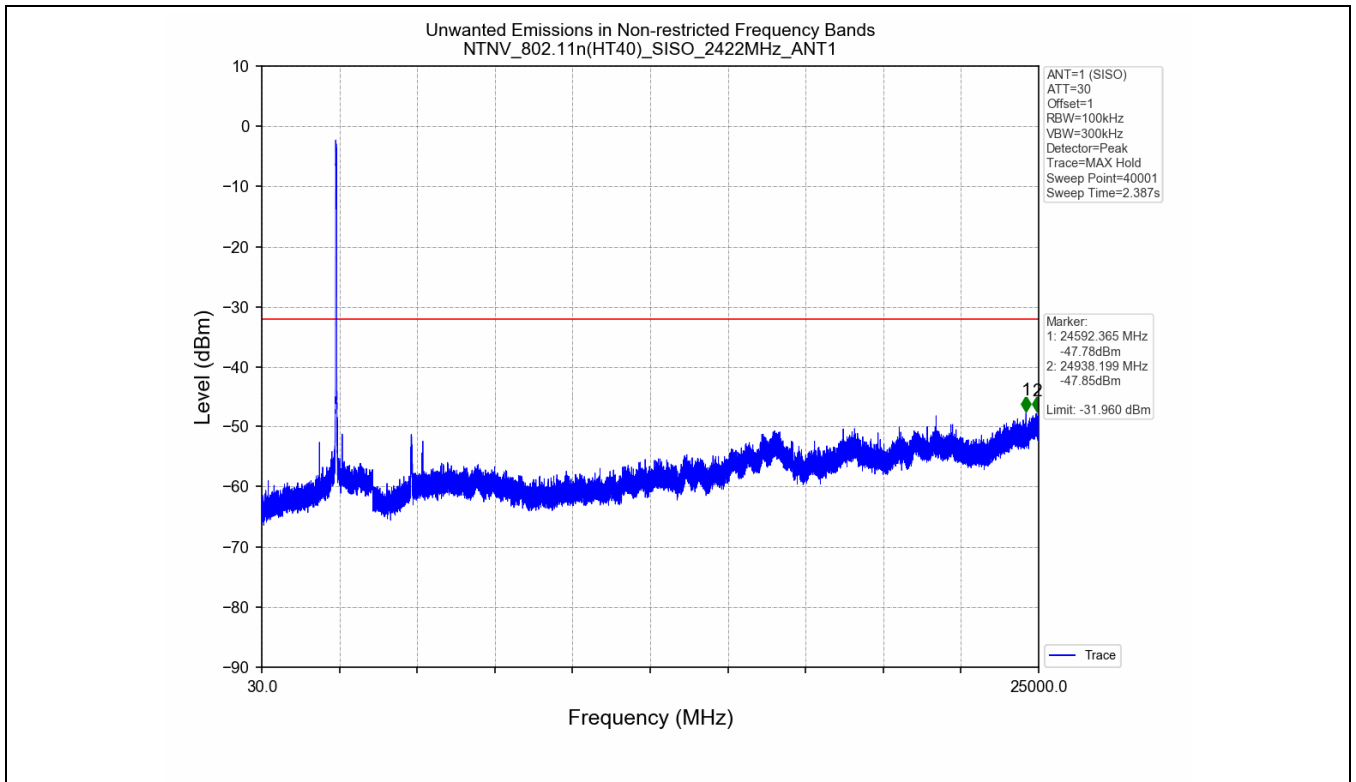
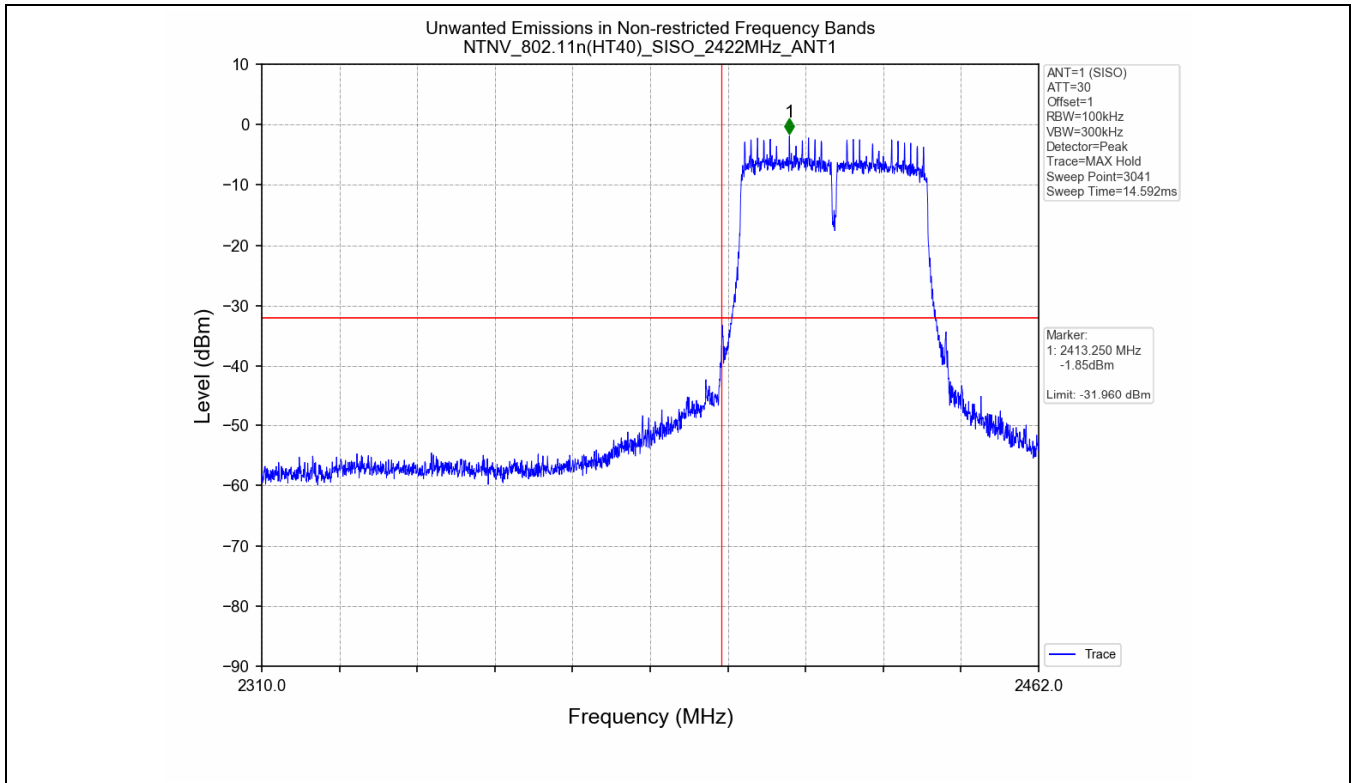
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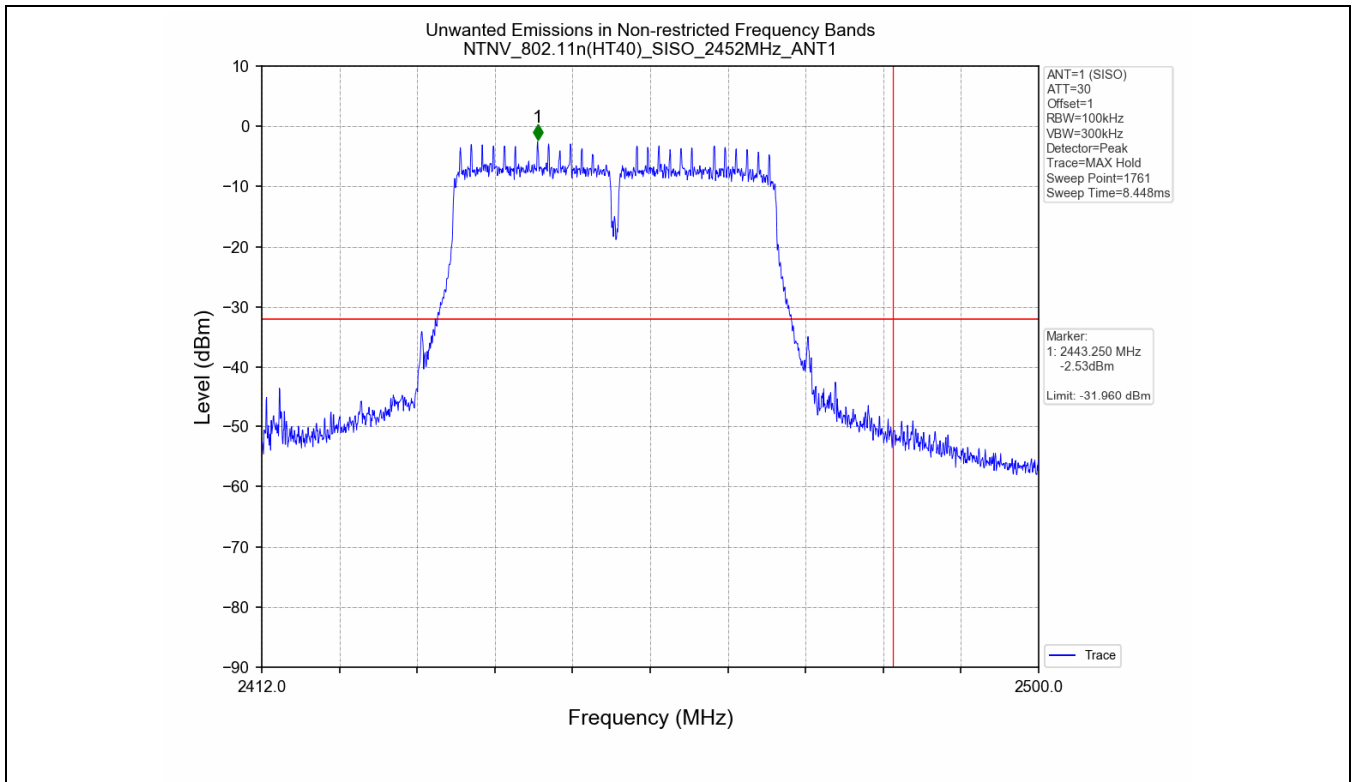
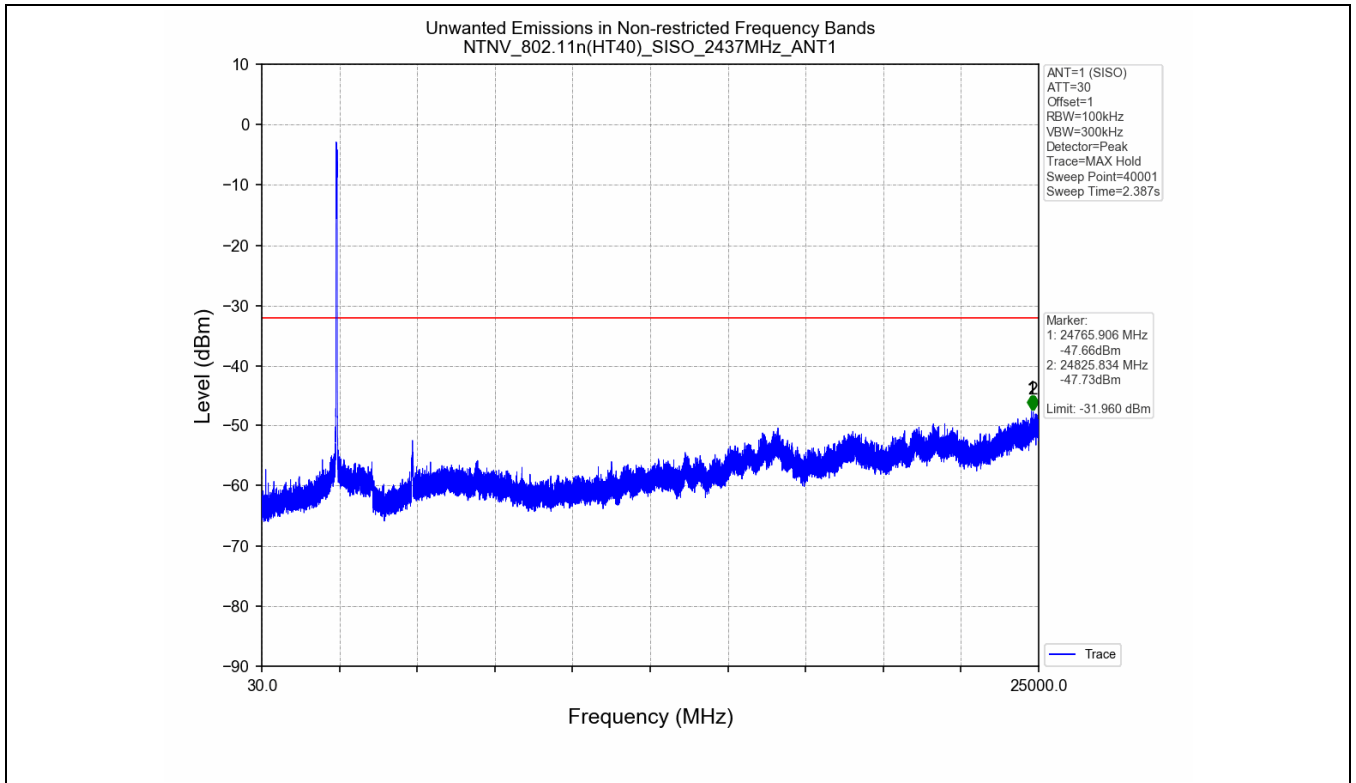
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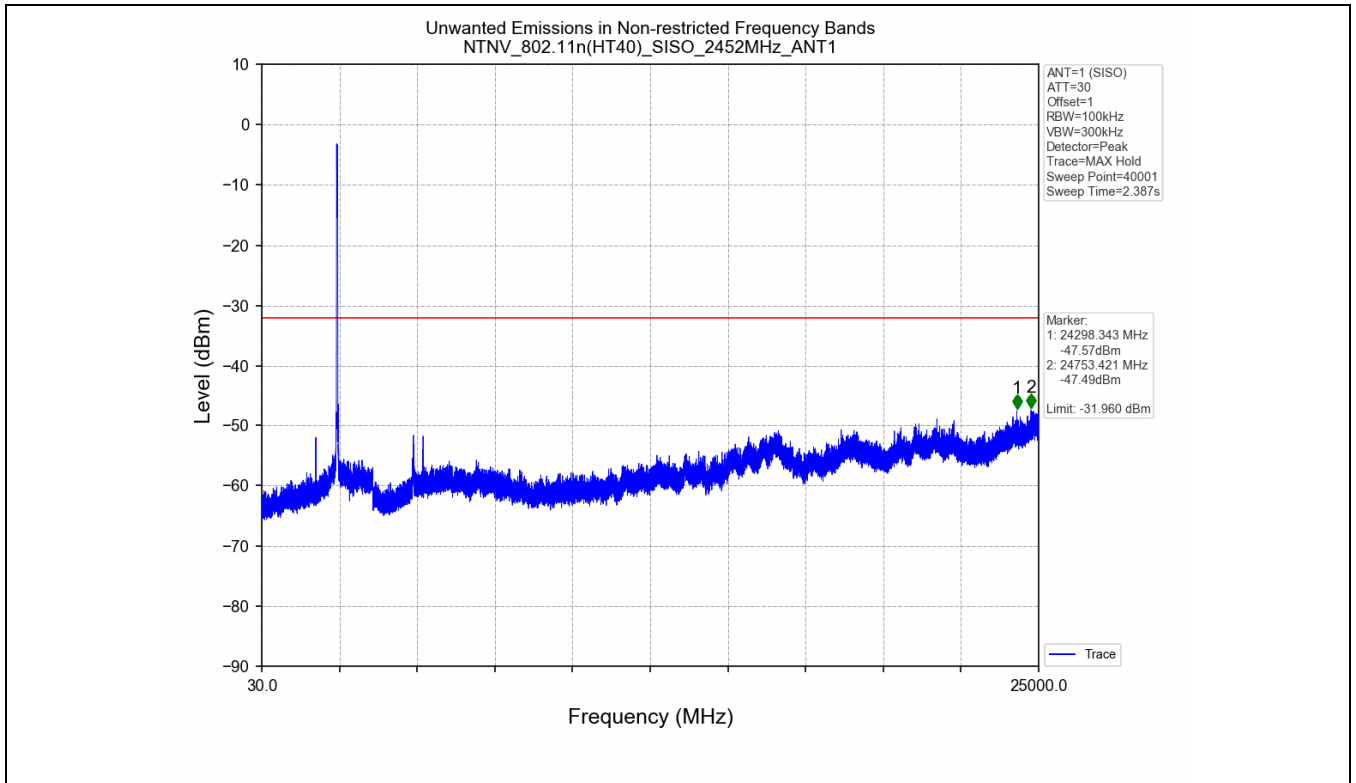
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