

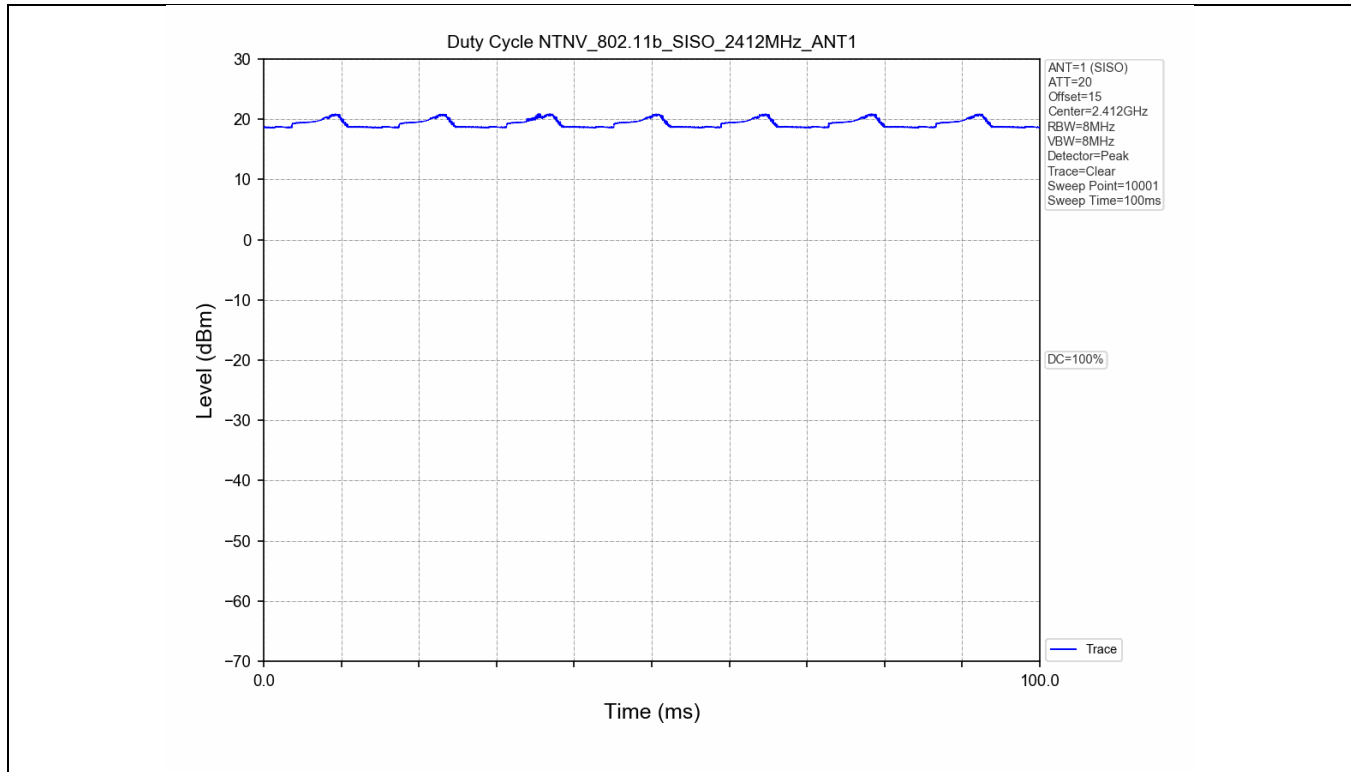
Appendix A for SHEM210500084101

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	100.000	100.000	100.00	0.00
	2437	SISO	1	100.000	100.000	100.00	0.00
	2462	SISO	1	100.000	100.000	100.00	0.00
802.11g	2412	SISO	1	100.000	100.000	100.00	0.00
	2437	SISO	1	100.000	100.000	100.00	0.00
	2462	SISO	1	100.000	100.000	100.00	0.00
802.11n(HT20)	2412	SISO	1	100.000	100.000	100.00	0.00
	2437	SISO	1	100.000	100.000	100.00	0.00
	2462	SISO	1	100.000	100.000	100.00	0.00
802.11n(HT40)	2422	SISO	1	100.000	100.000	100.00	0.00
	2437	SISO	1	100.000	100.000	100.00	0.00
	2452	SISO	1	100.000	100.000	100.00	0.00

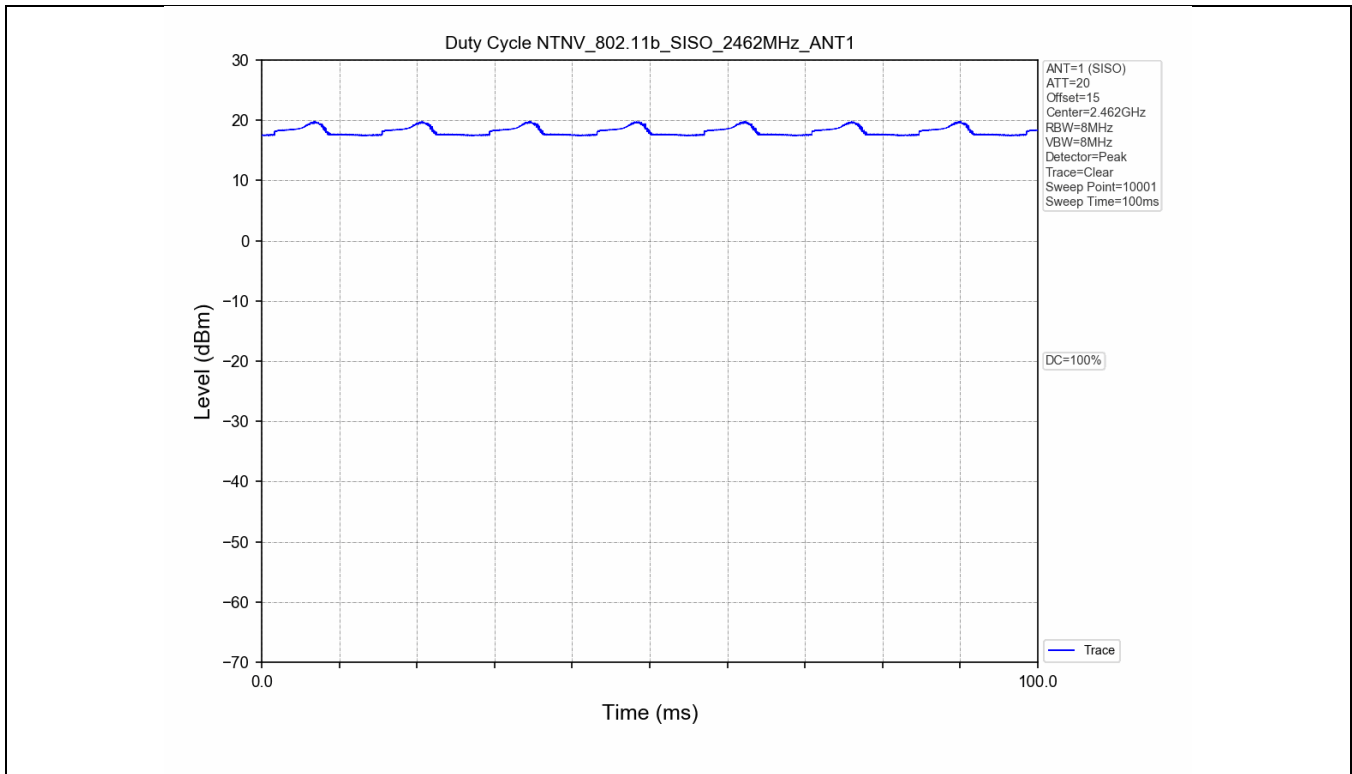
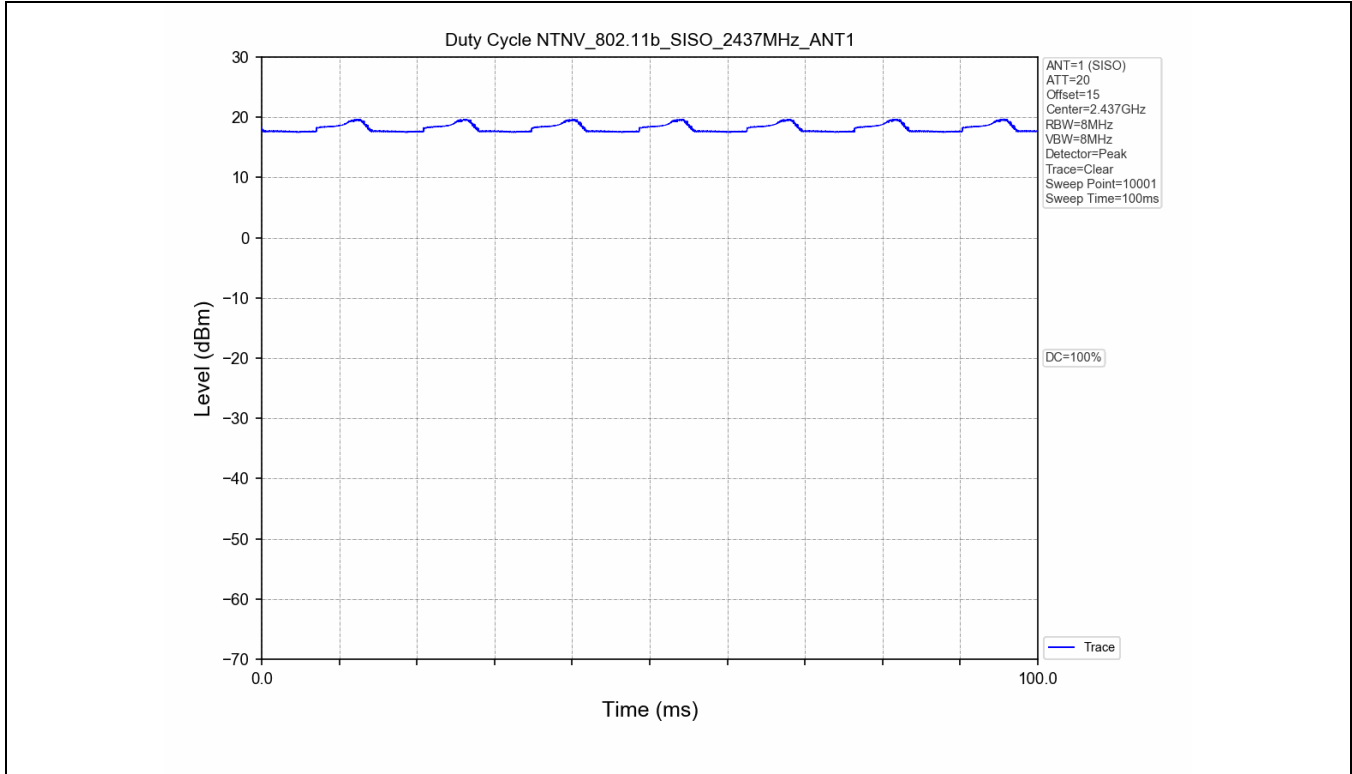
1.2 Test Graph



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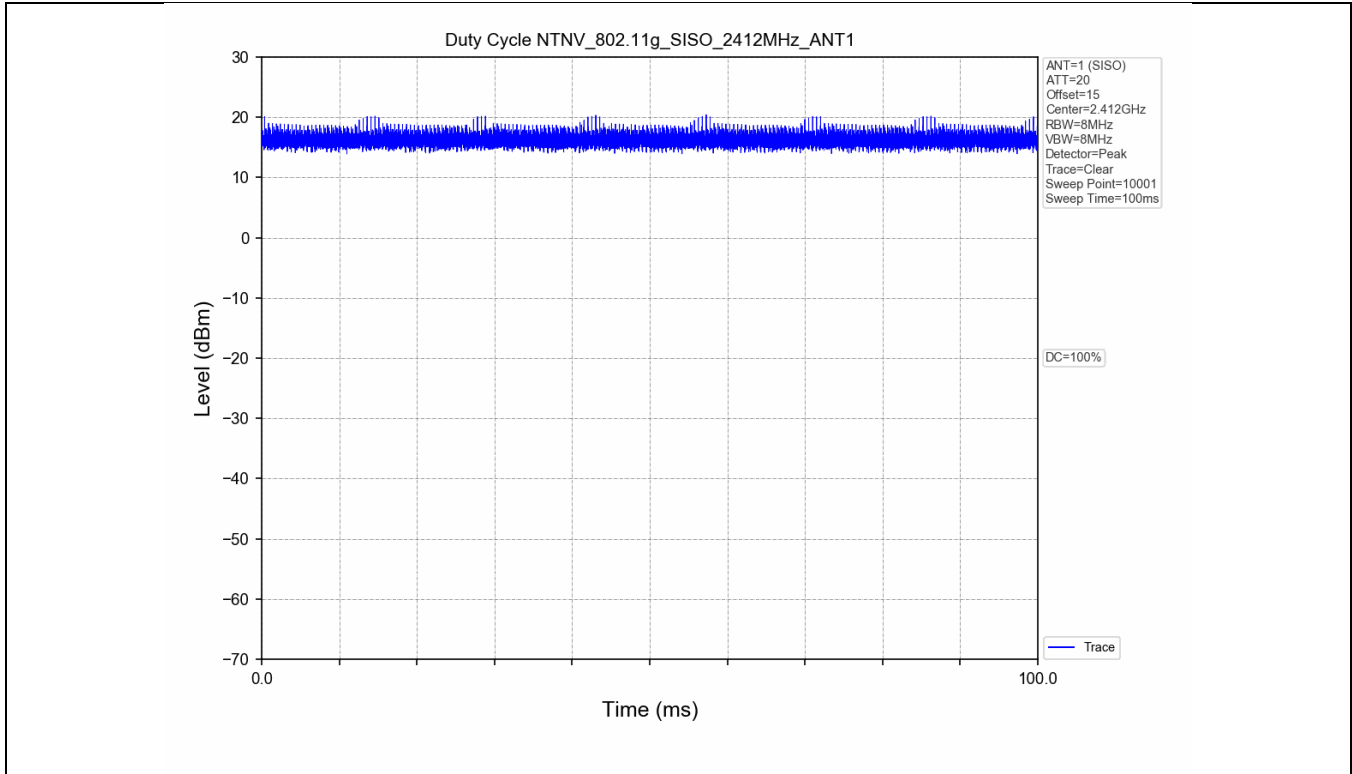


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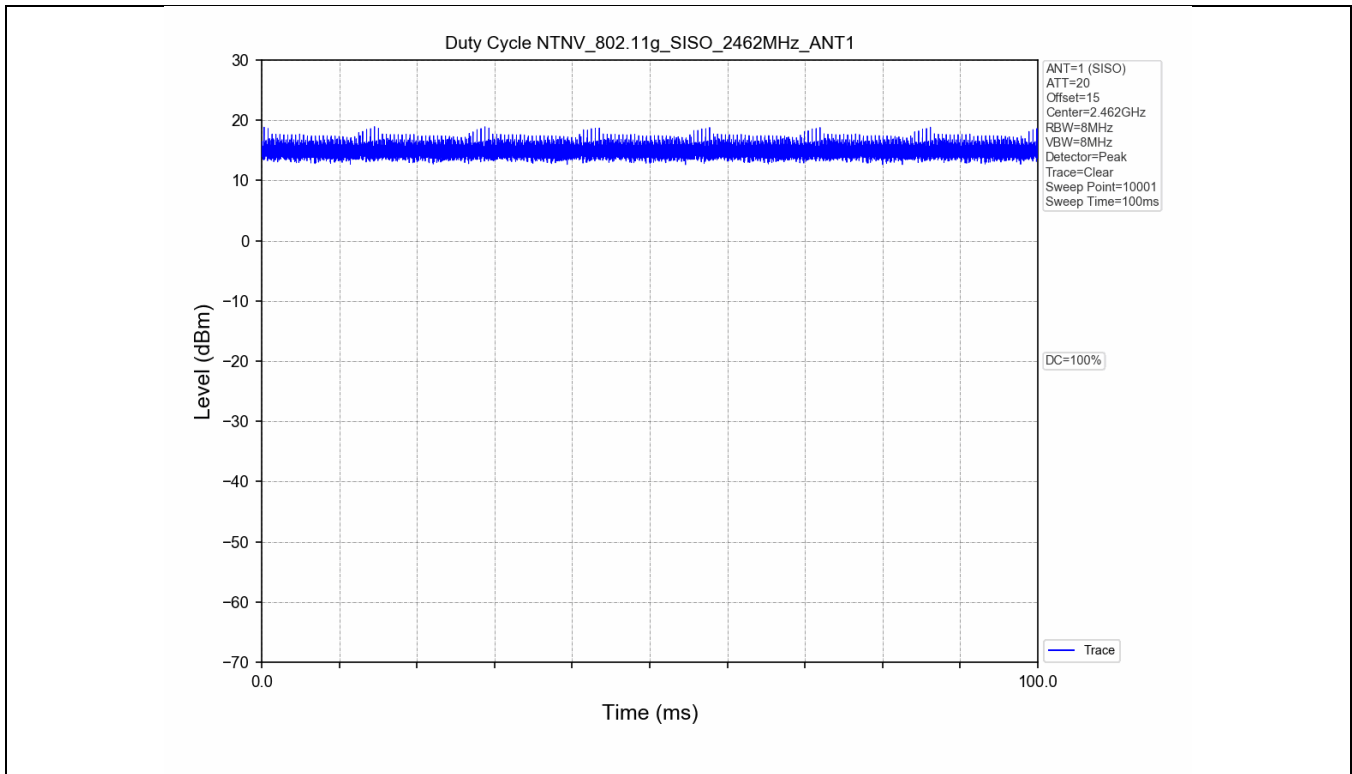
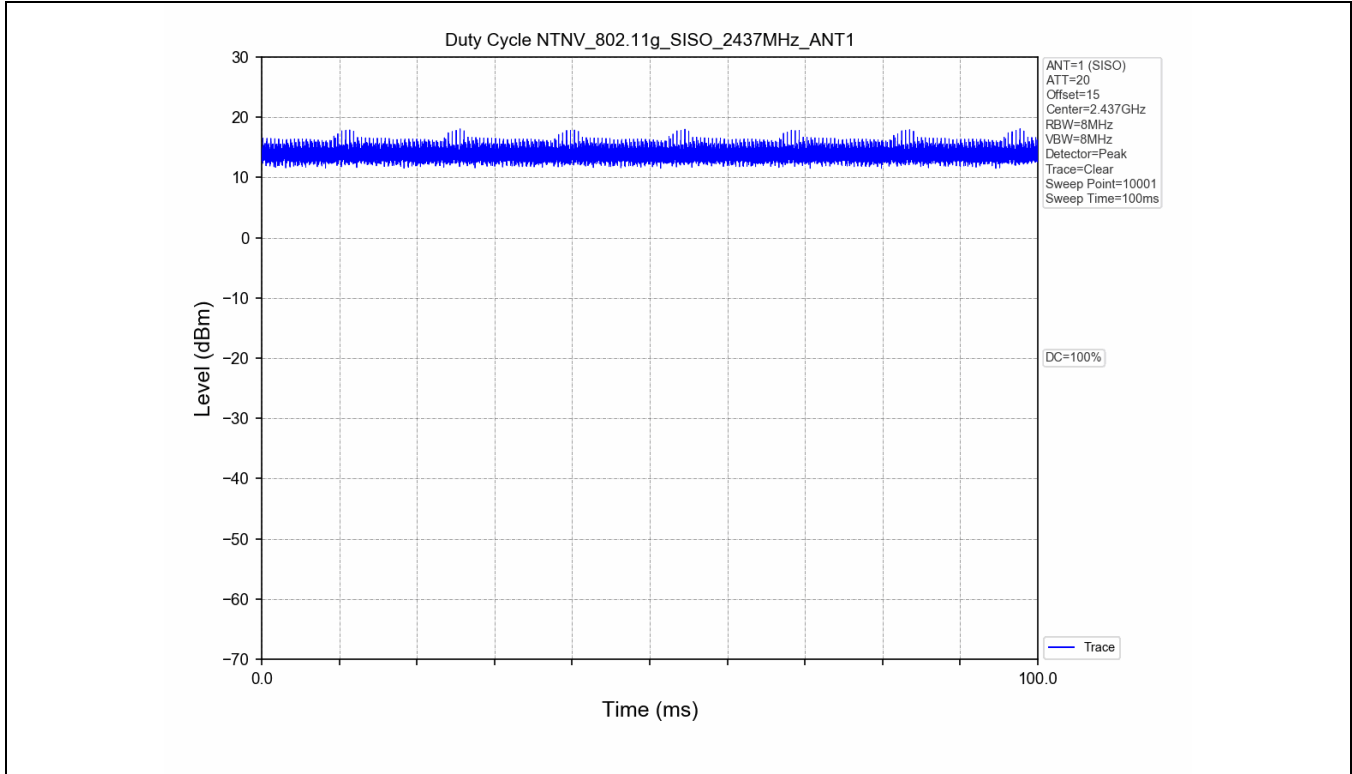


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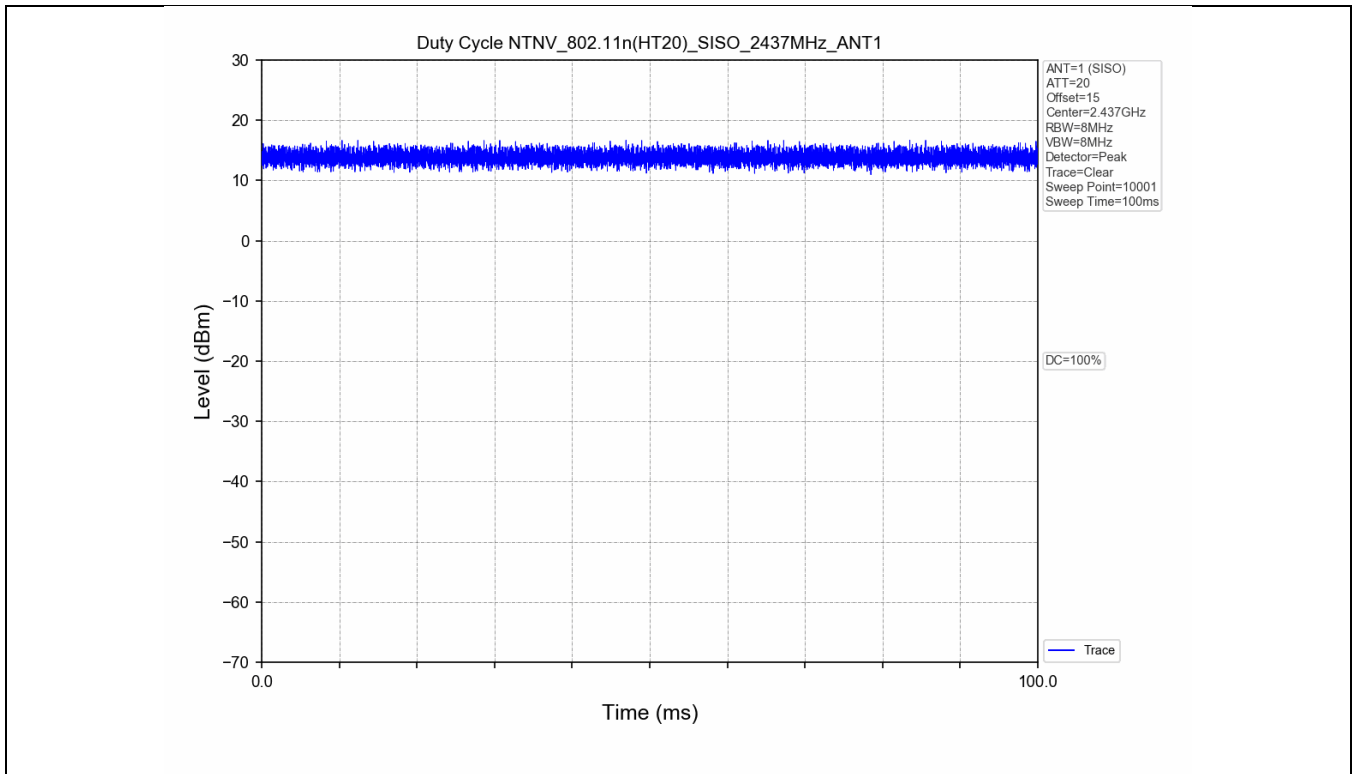
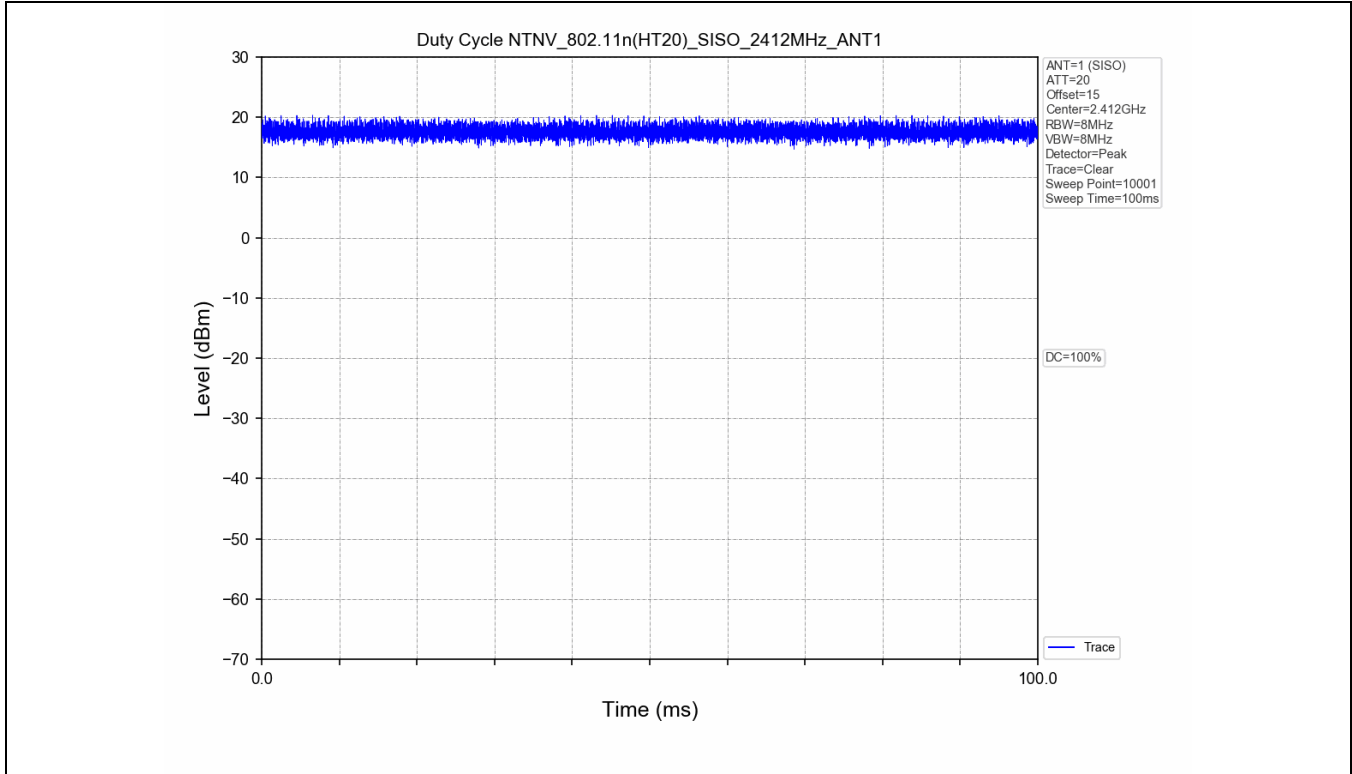


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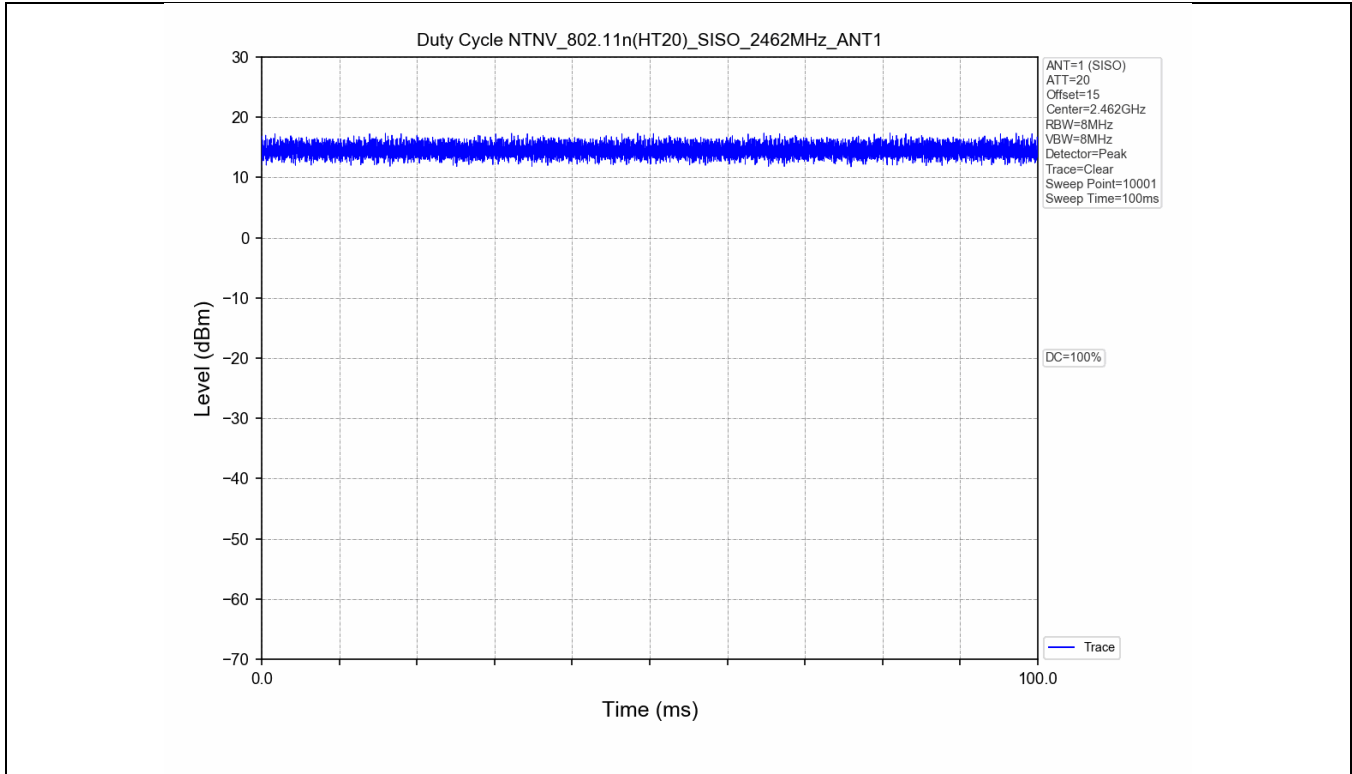


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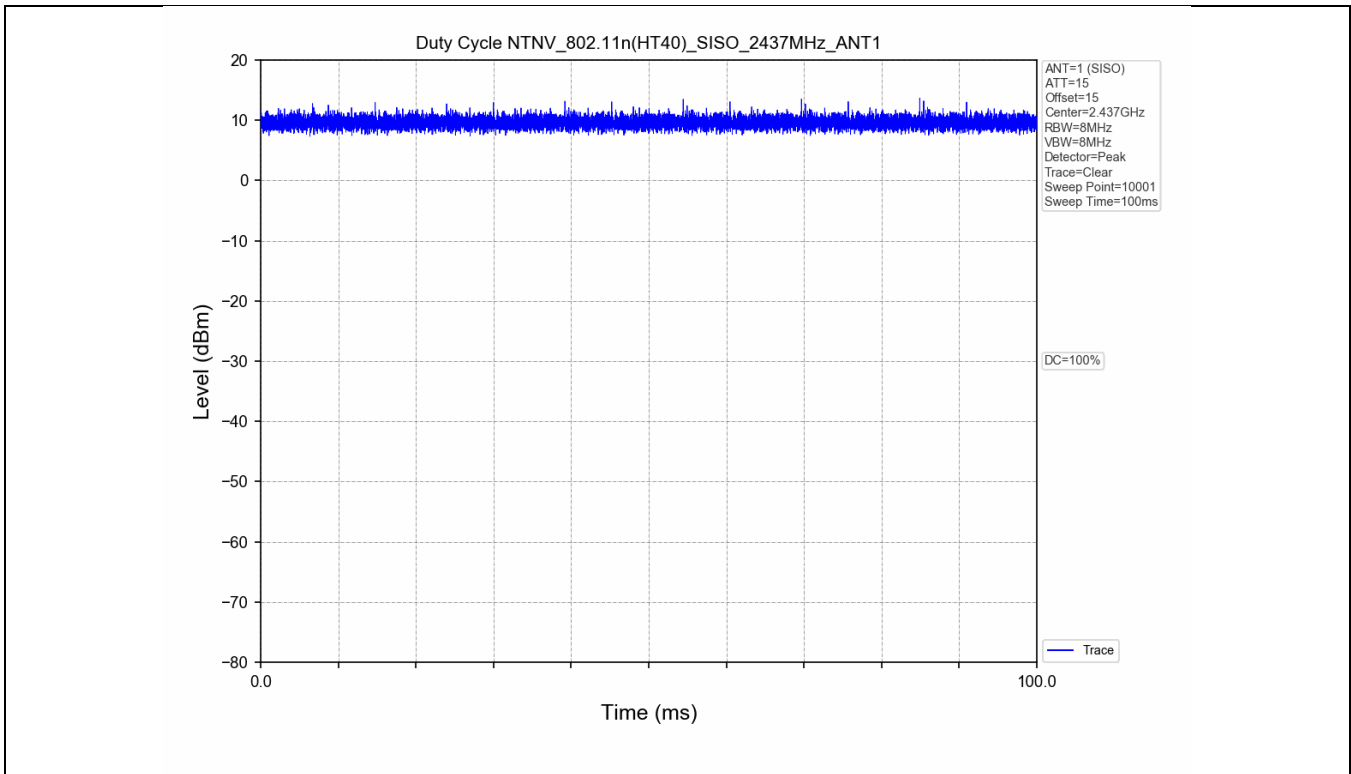
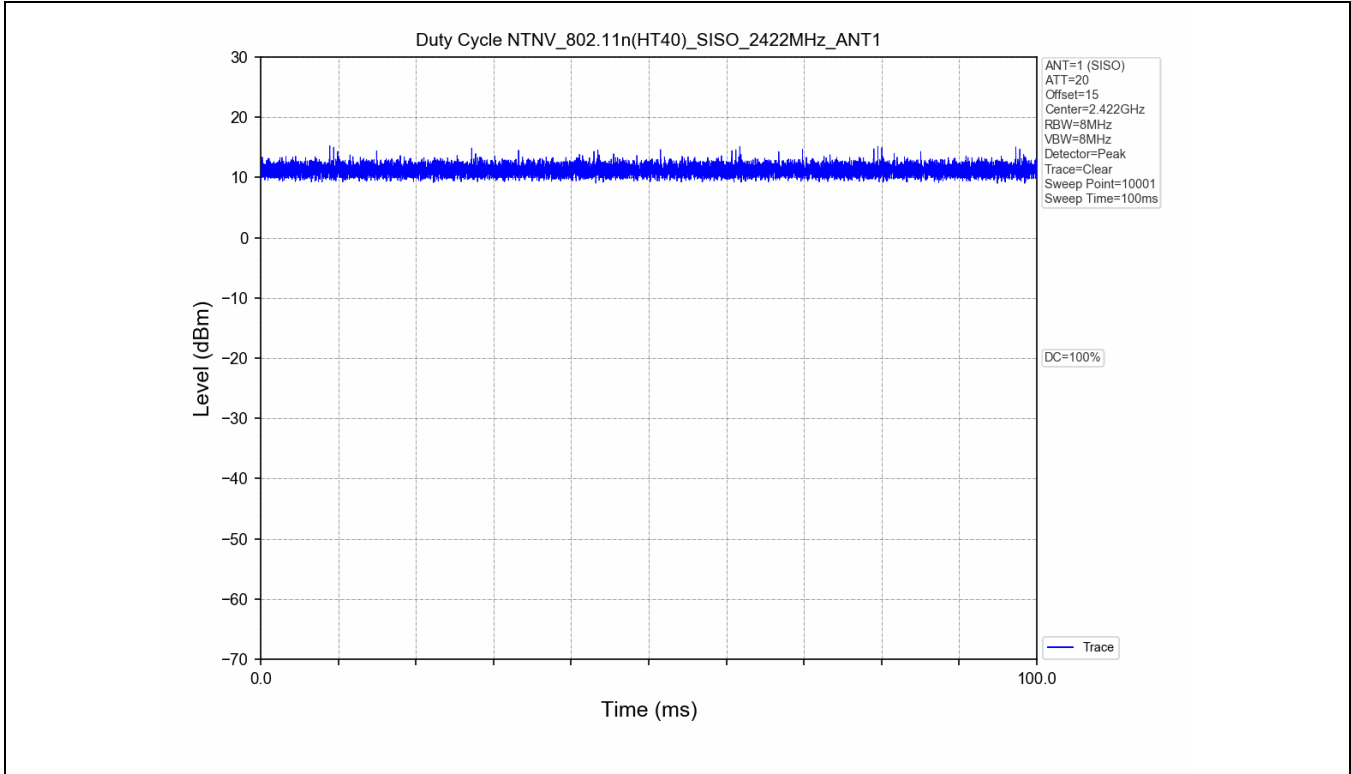


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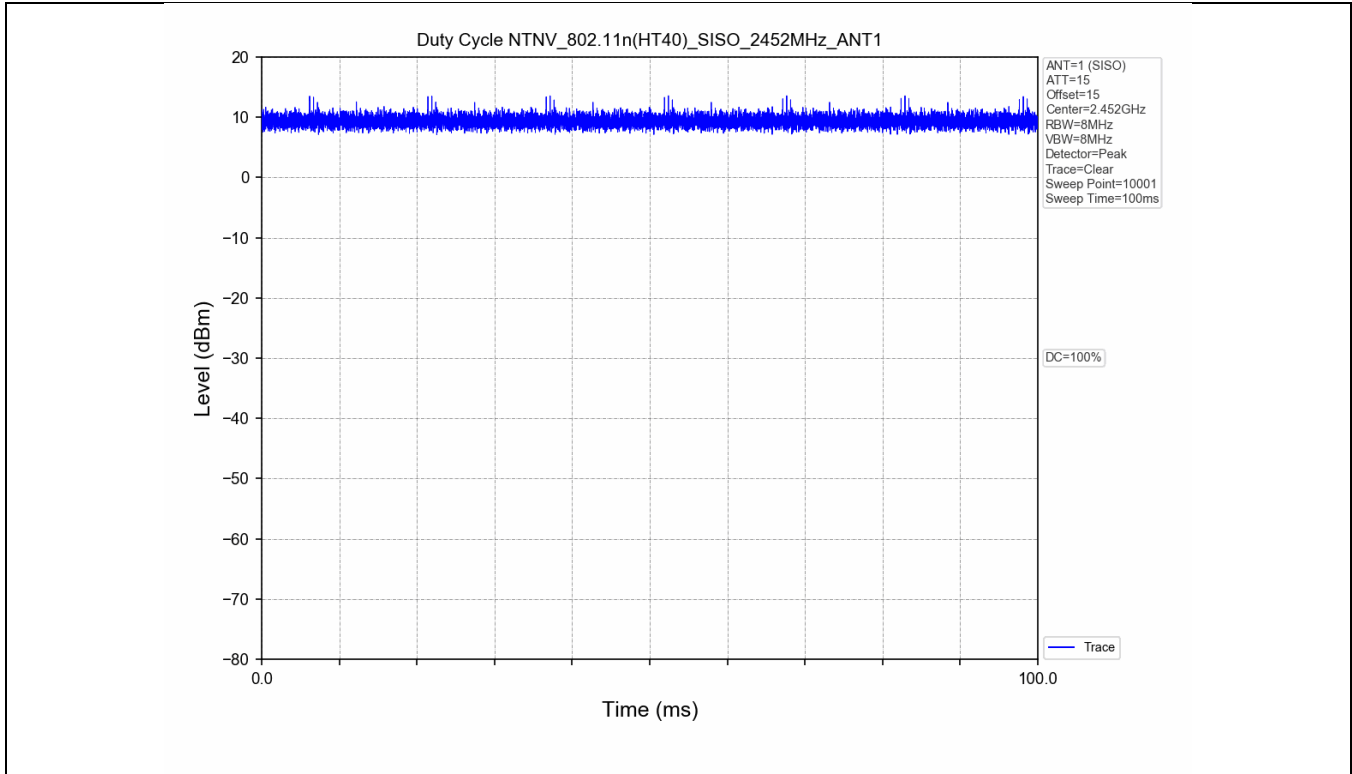


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2. Bandwidth

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	10.060	≥0.5	PASS
	2437	SISO	1	10.069	≥0.5	PASS
	2462	SISO	1	10.078	≥0.5	PASS
802.11g	2412	SISO	1	16.531	≥0.5	PASS
	2437	SISO	1	16.533	≥0.5	PASS
	2462	SISO	1	16.571	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.749	≥0.5	PASS
	2437	SISO	1	17.804	≥0.5	PASS
	2462	SISO	1	17.779	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	36.423	≥0.5	PASS
	2437	SISO	1	36.453	≥0.5	PASS
	2452	SISO	1	36.501	≥0.5	PASS

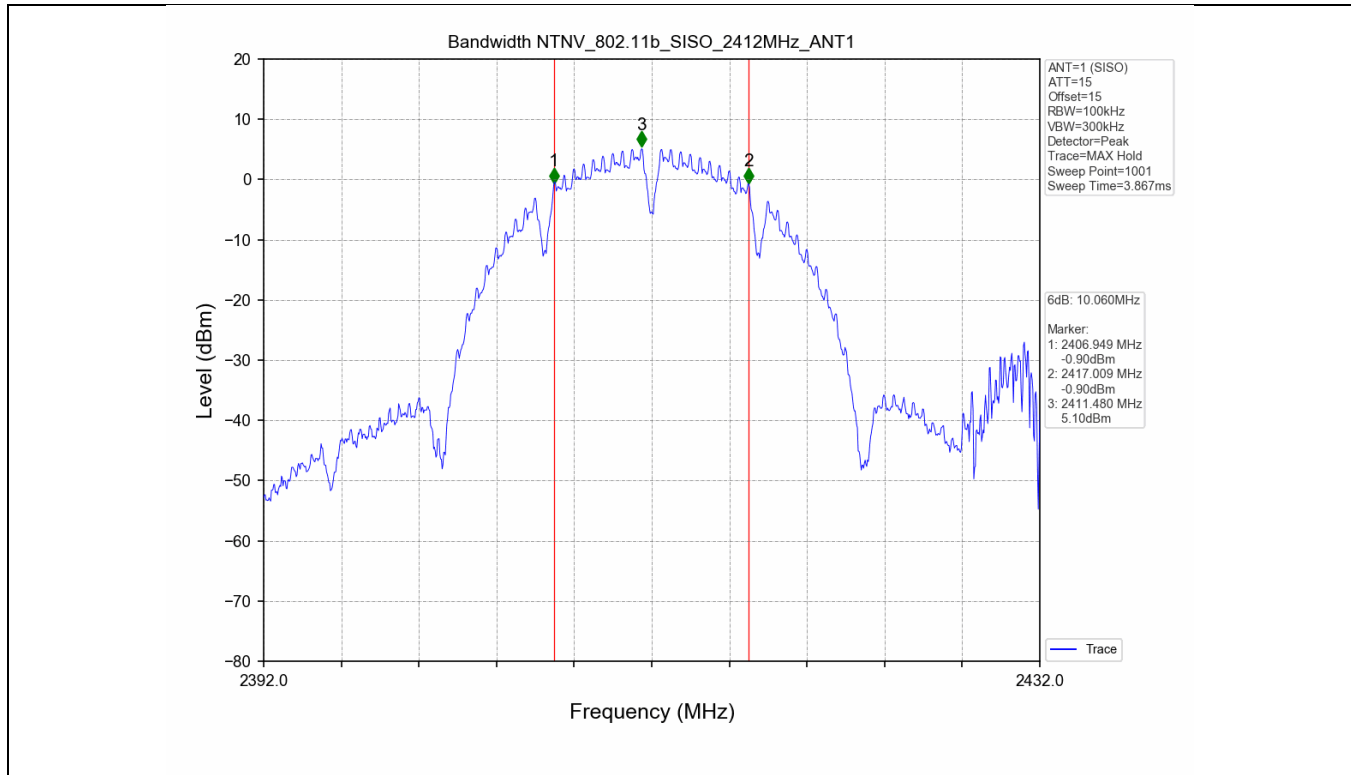
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	Only for Report Use
802.11b	2412	SISO	1	14.734	Only for Report Use



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	2437	SISO	1	14.871	Only for Report Use
	2462	SISO	1	14.895	Only for Report Use
	2412	SISO	1	16.798	Only for Report Use
802.11g	2437	SISO	1	16.830	Only for Report Use
	2462	SISO	1	16.822	Only for Report Use
	2412	SISO	1	17.959	Only for Report Use
802.11n(HT20)	2437	SISO	1	17.996	Only for Report Use
	2462	SISO	1	17.994	Only for Report Use
	2422	SISO	1	36.024	Only for Report Use
802.11n(HT40)	2437	SISO	1	37.908	Only for Report Use
	2452	SISO	1	36.399	Only for Report Use

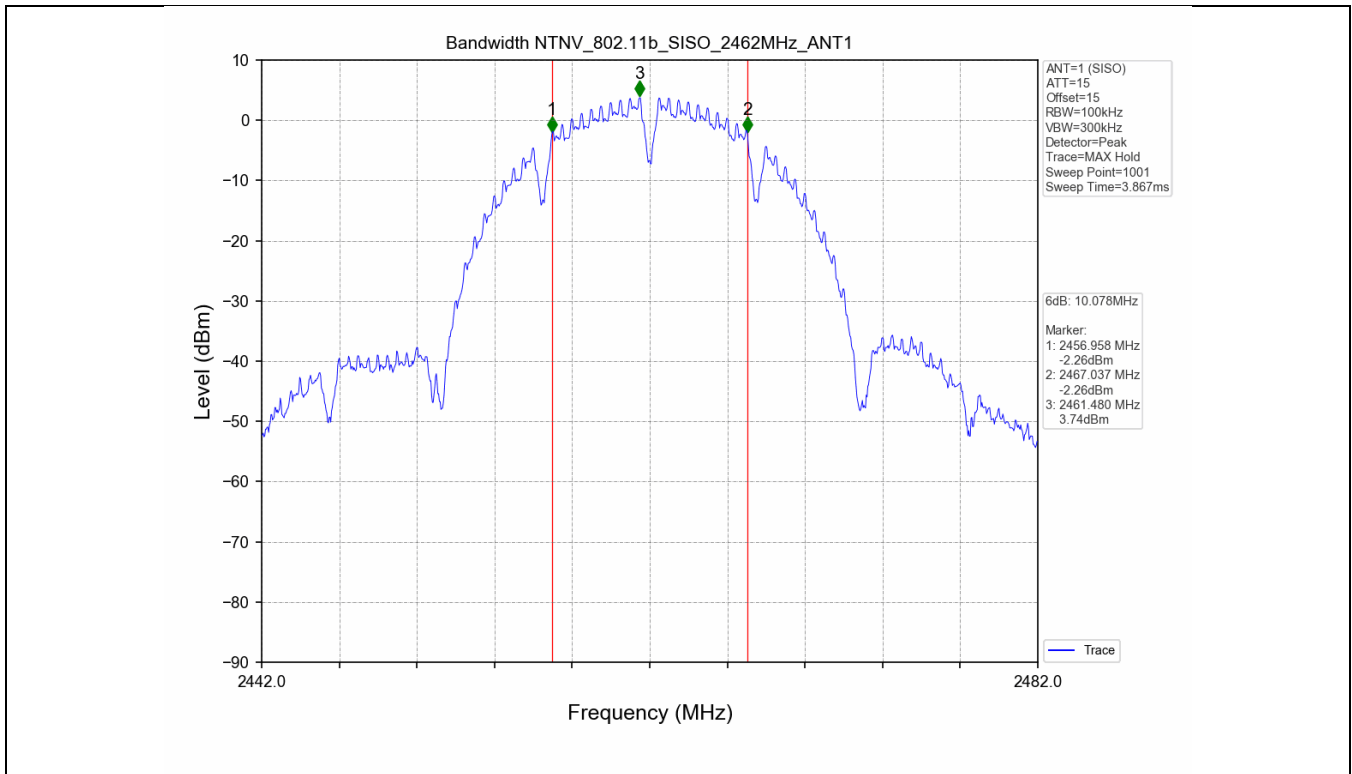
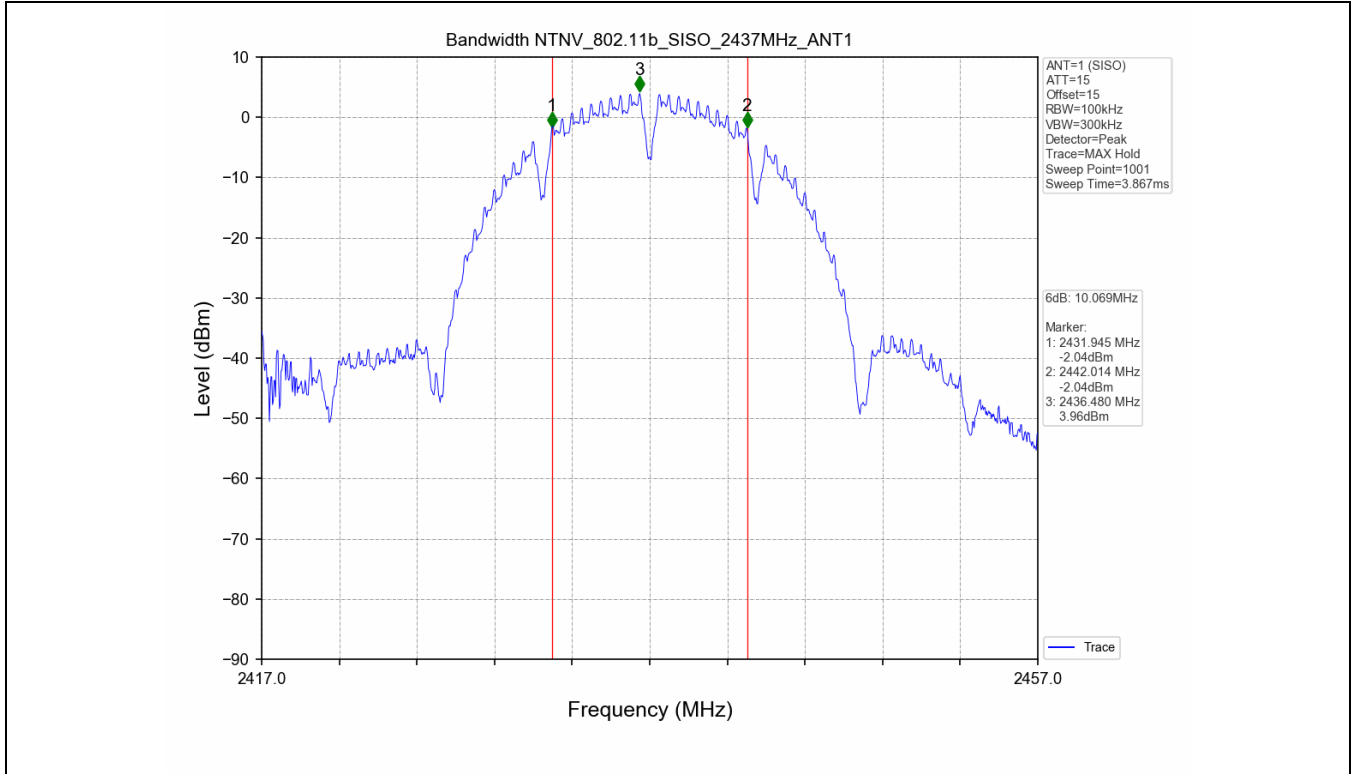
2.2 Test Graph - 6dB Bandwidth



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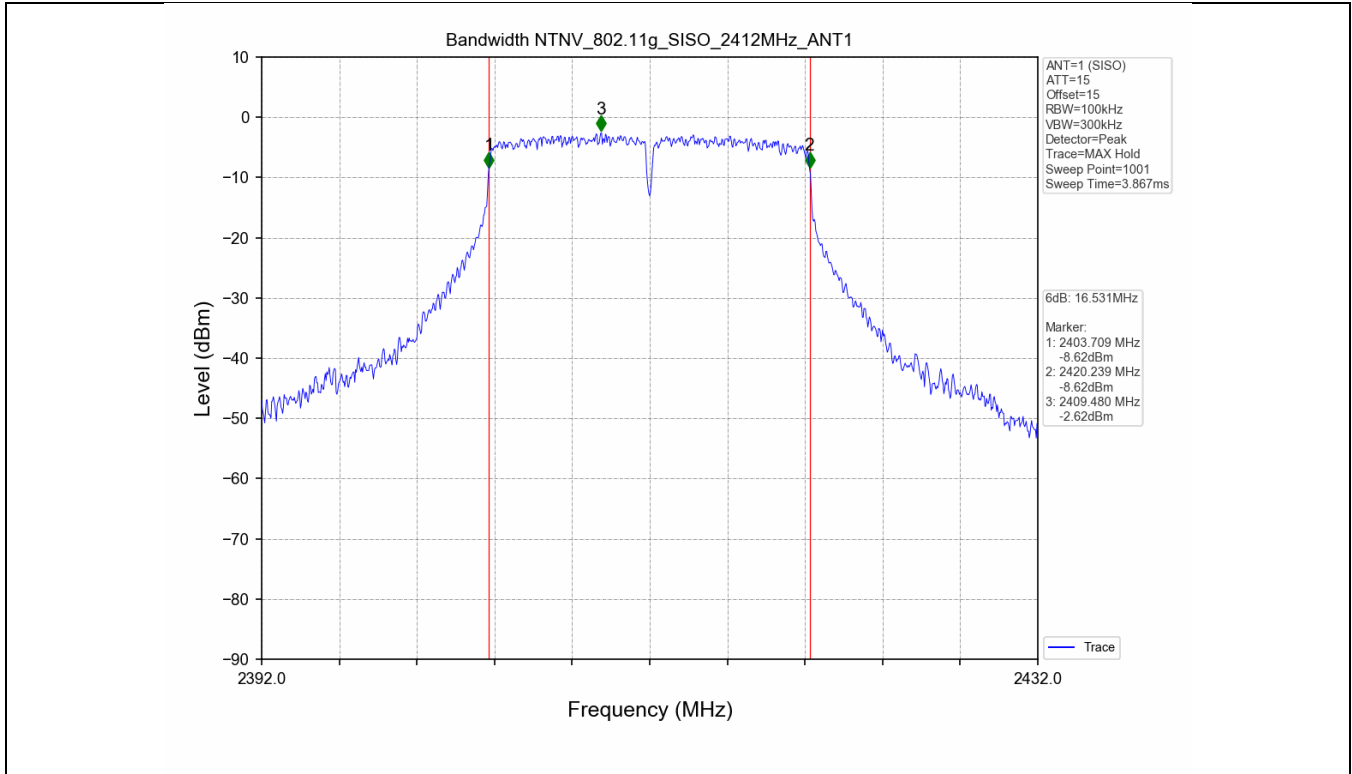


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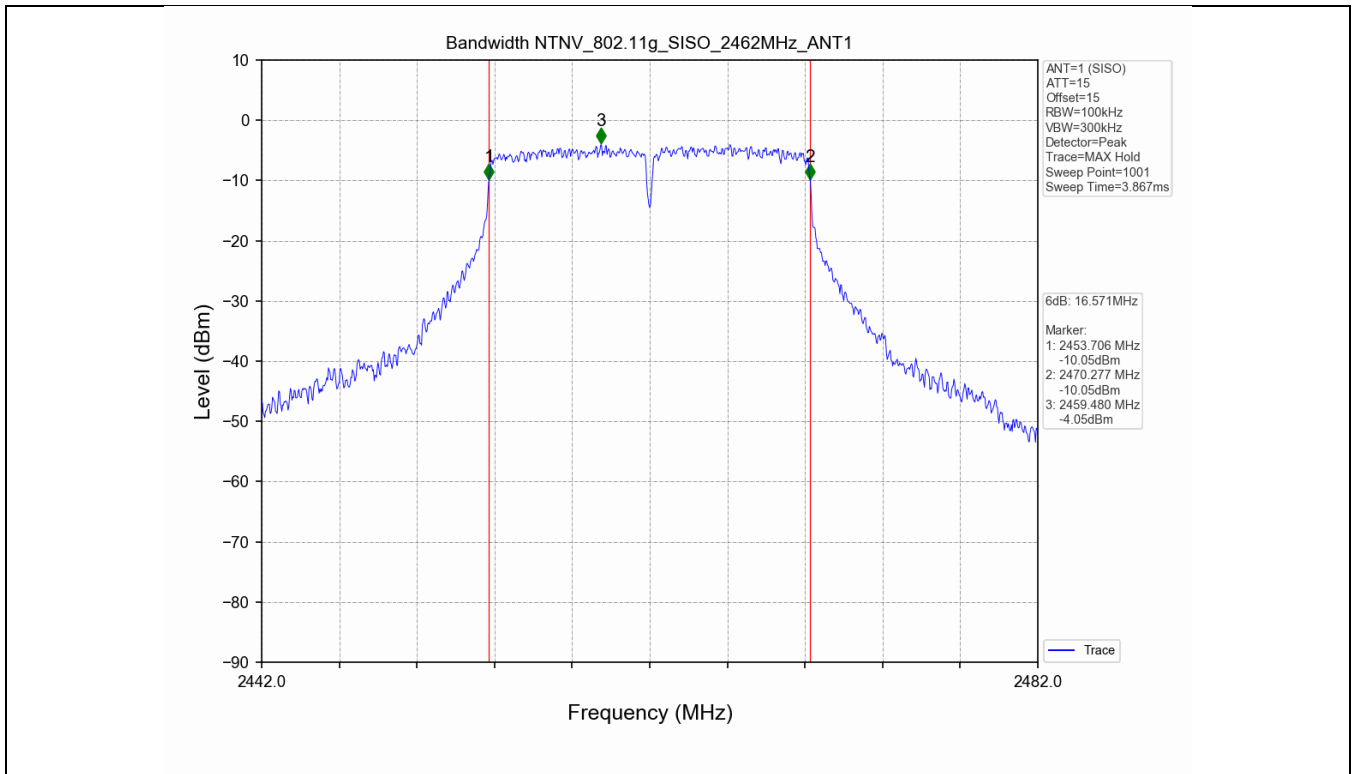
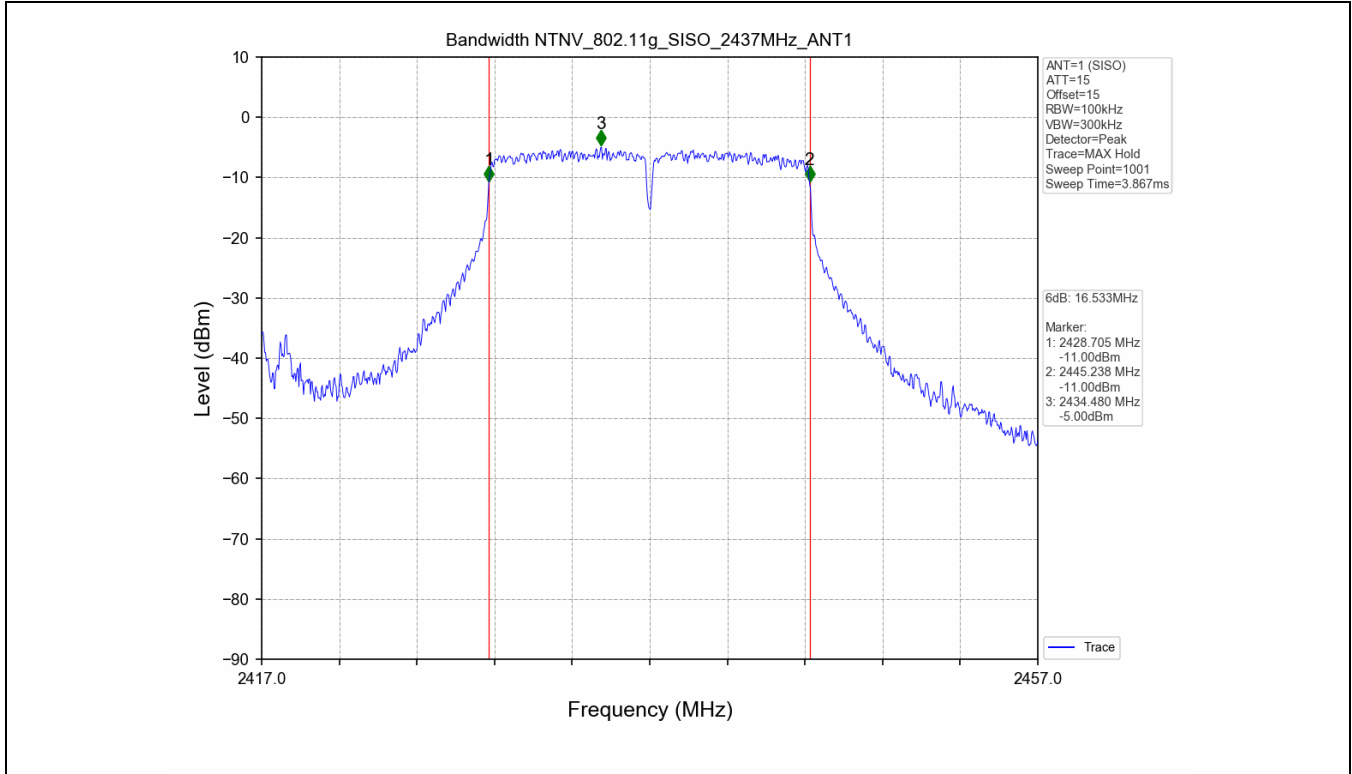
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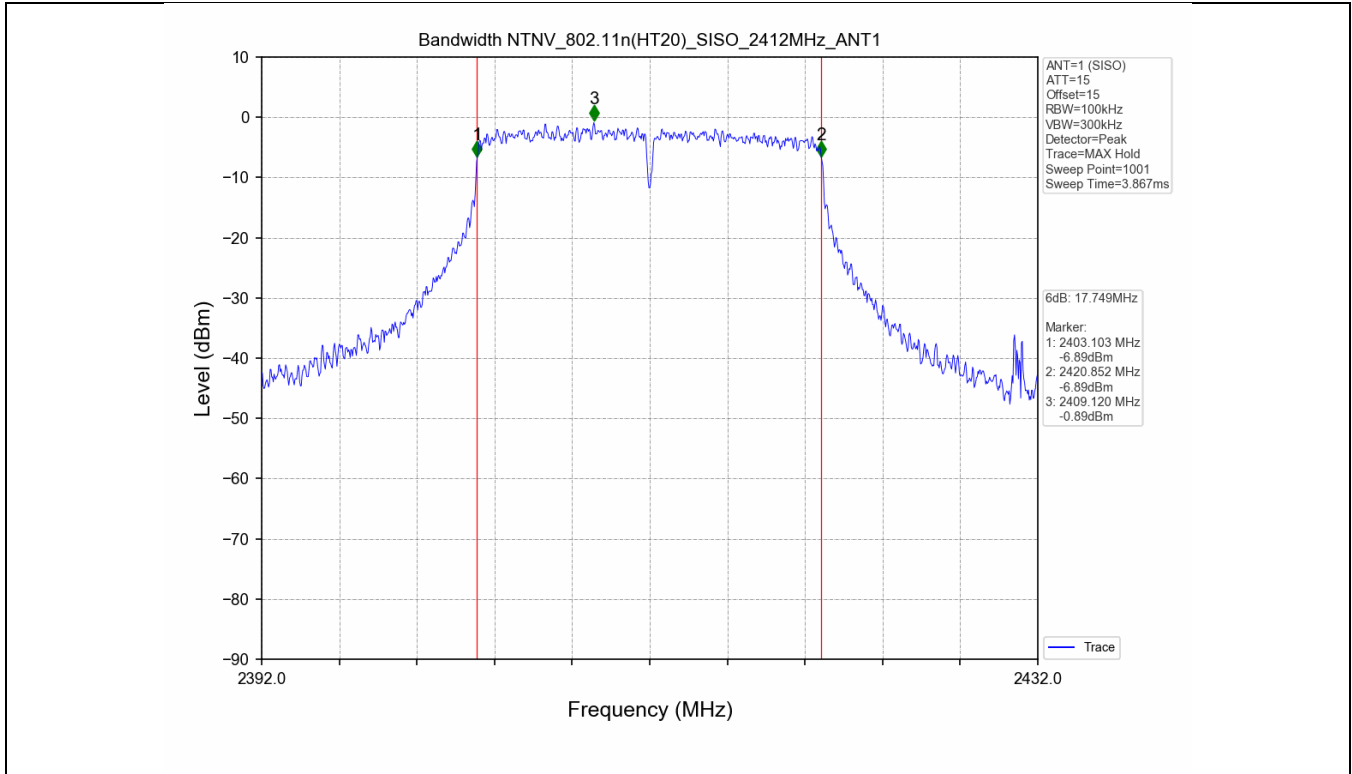
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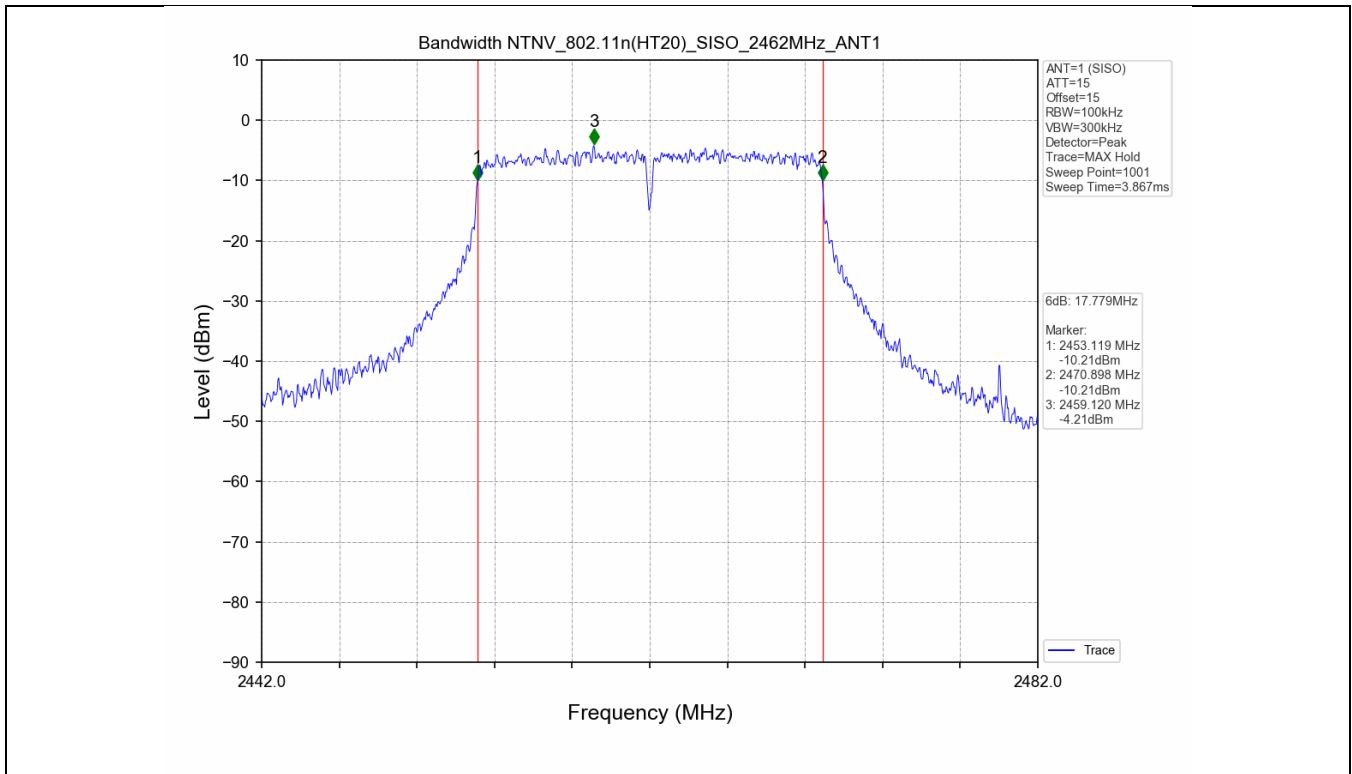
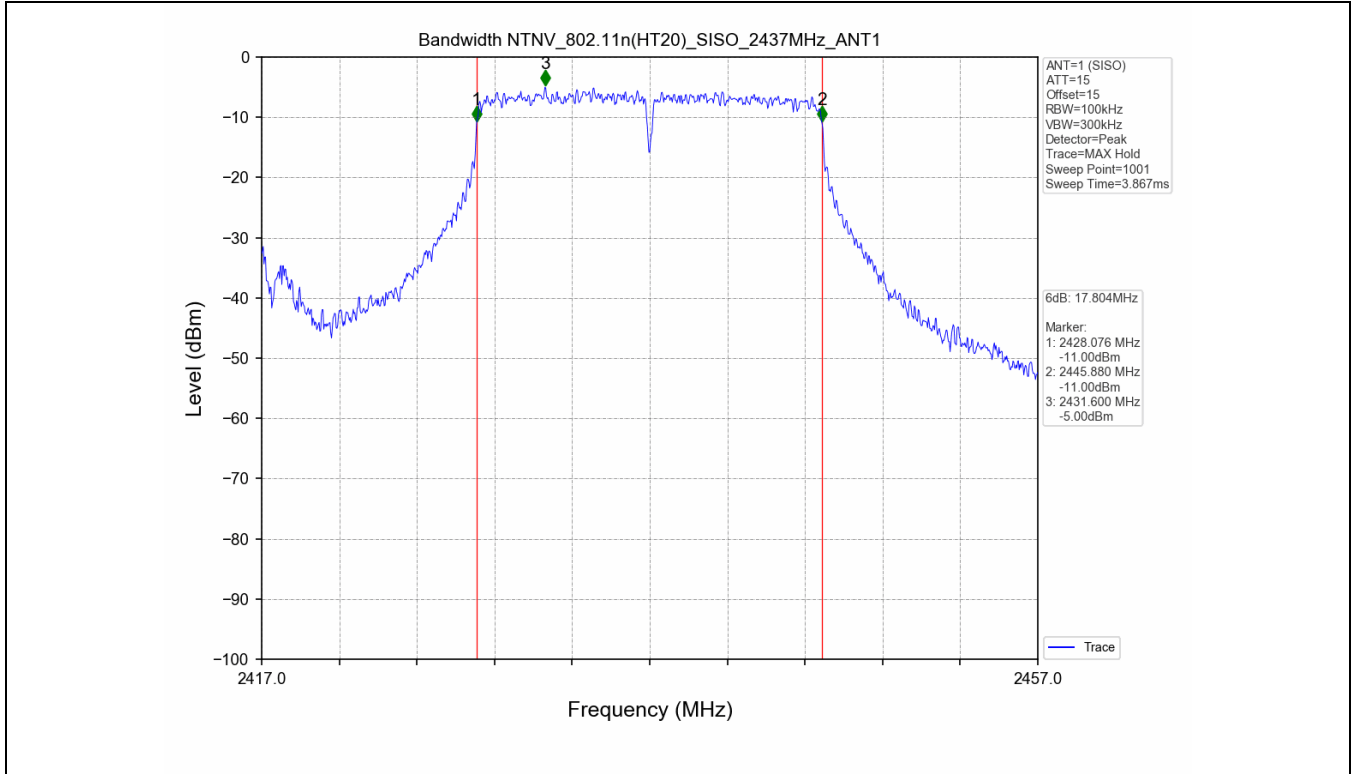
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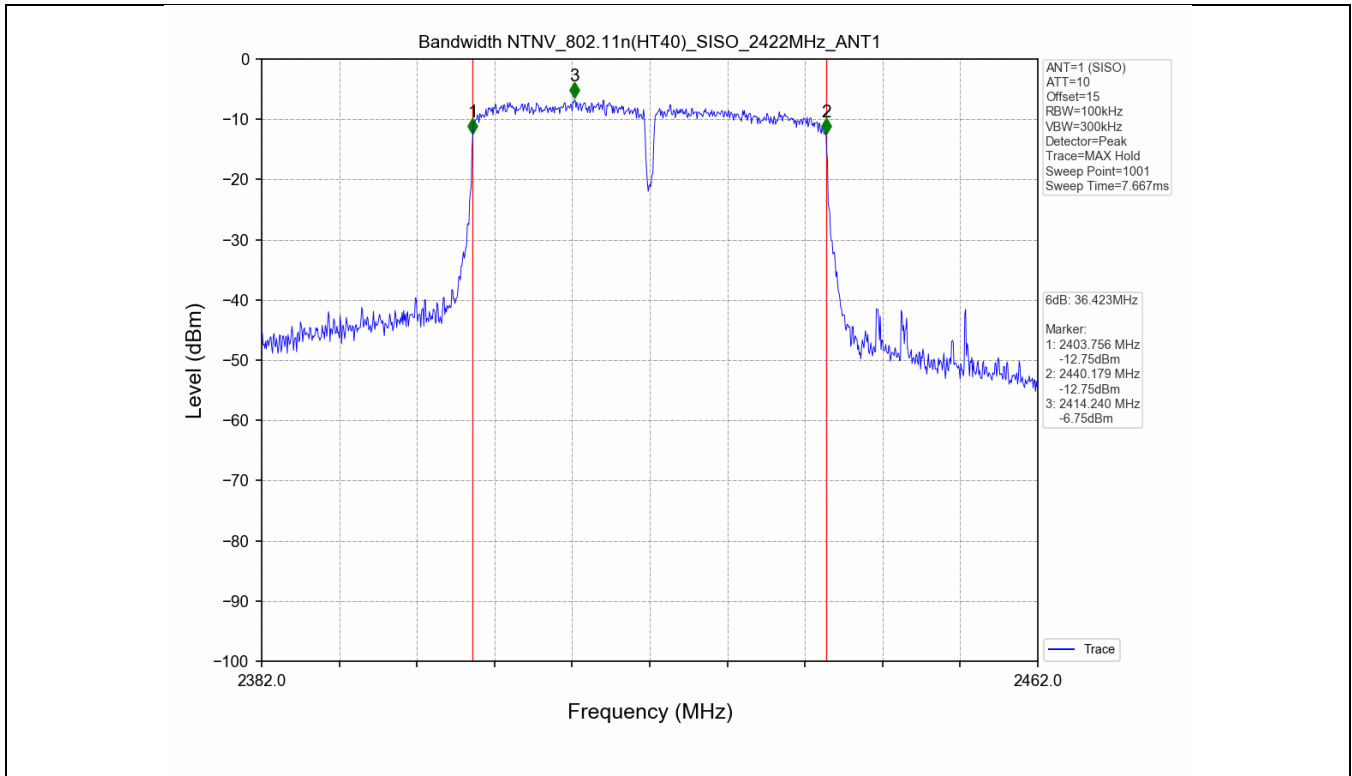
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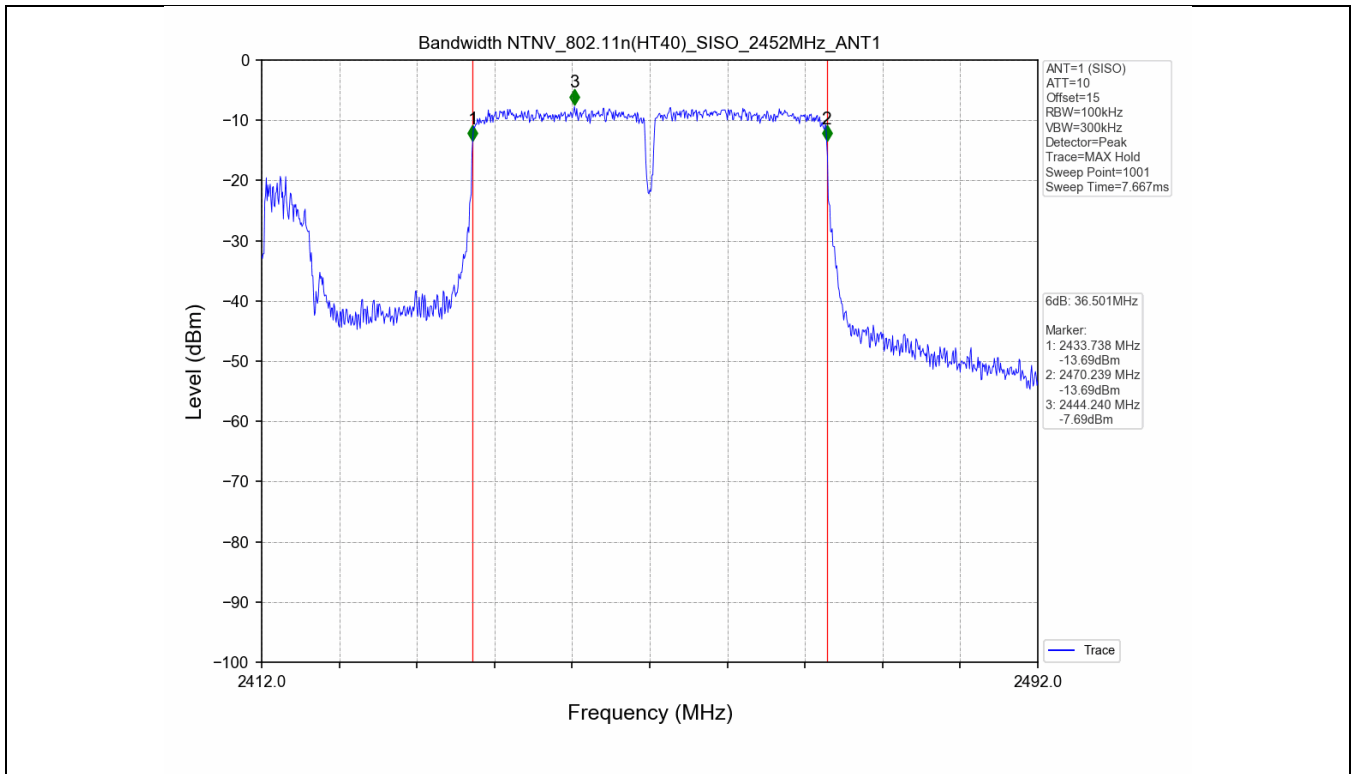
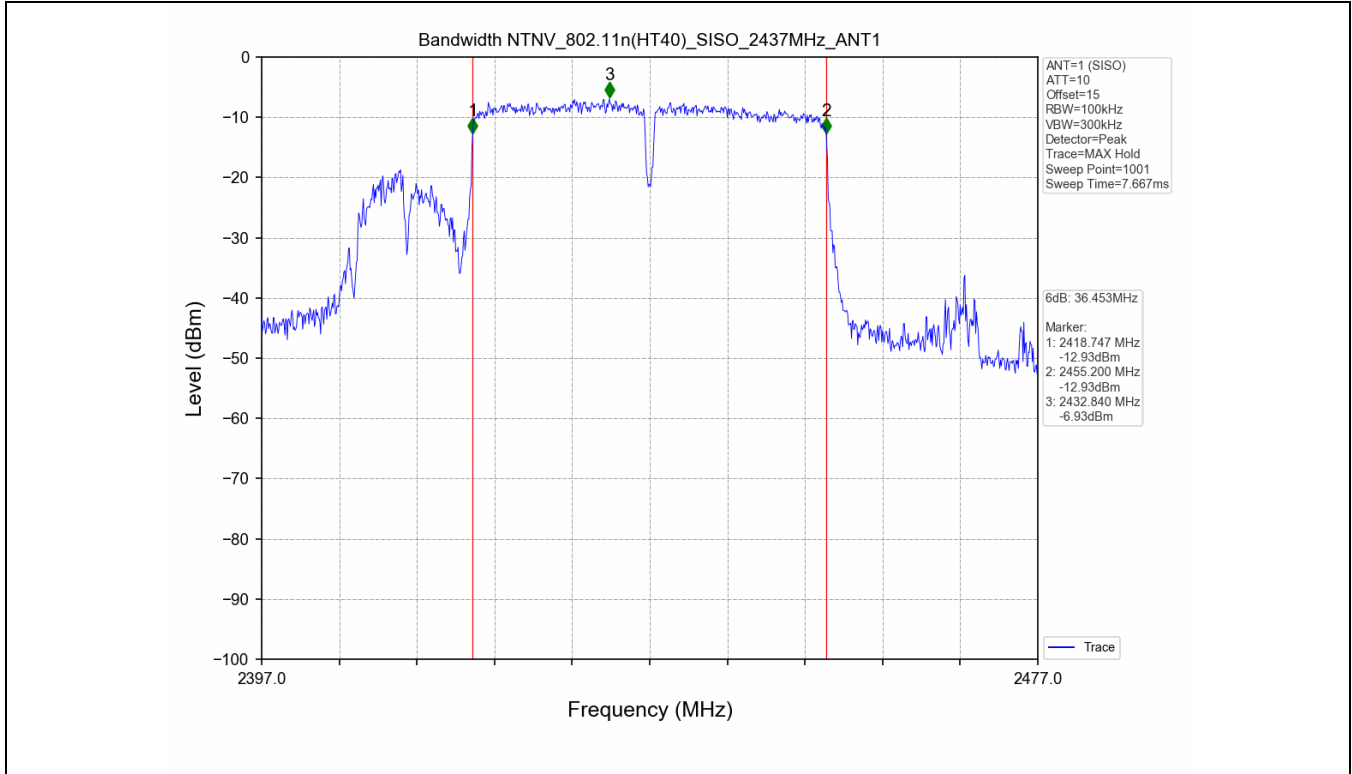
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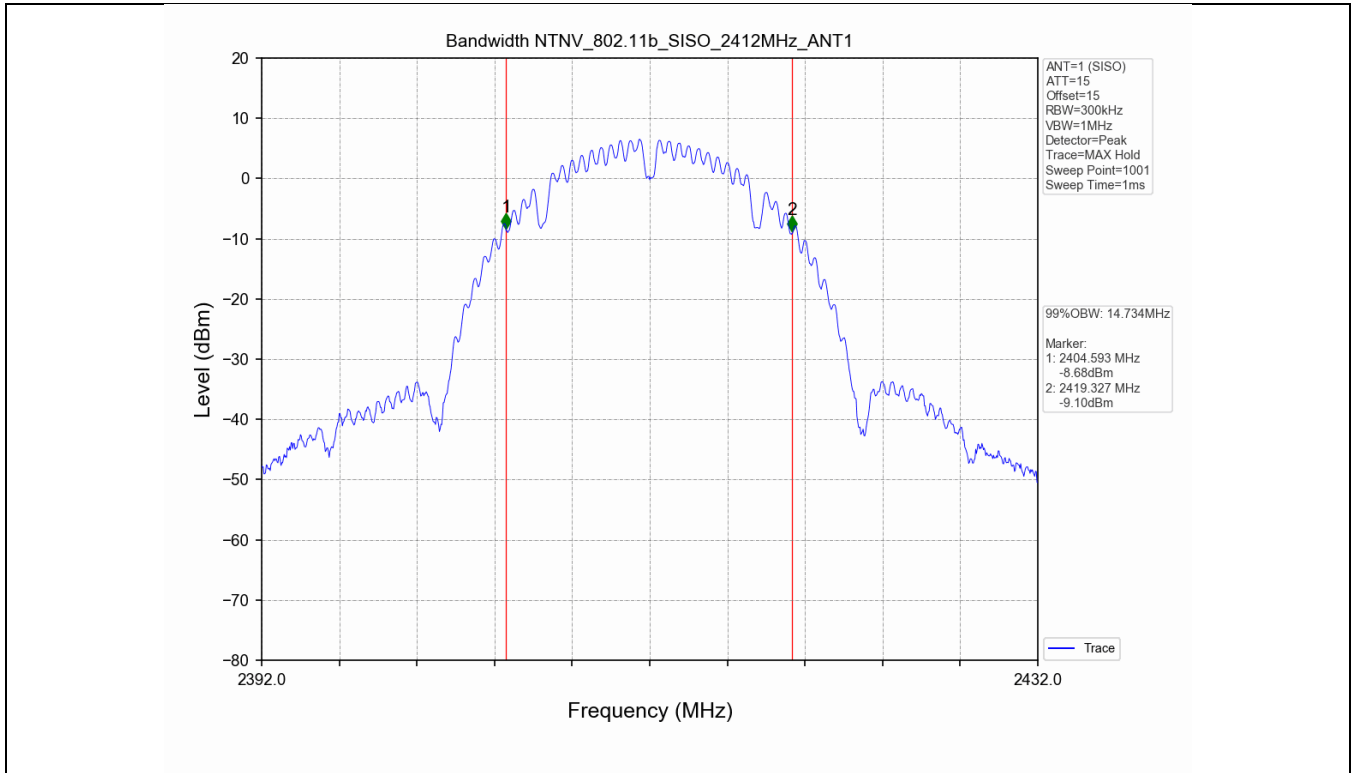
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2.3 Test Graph - 99% Occupied Bandwidth

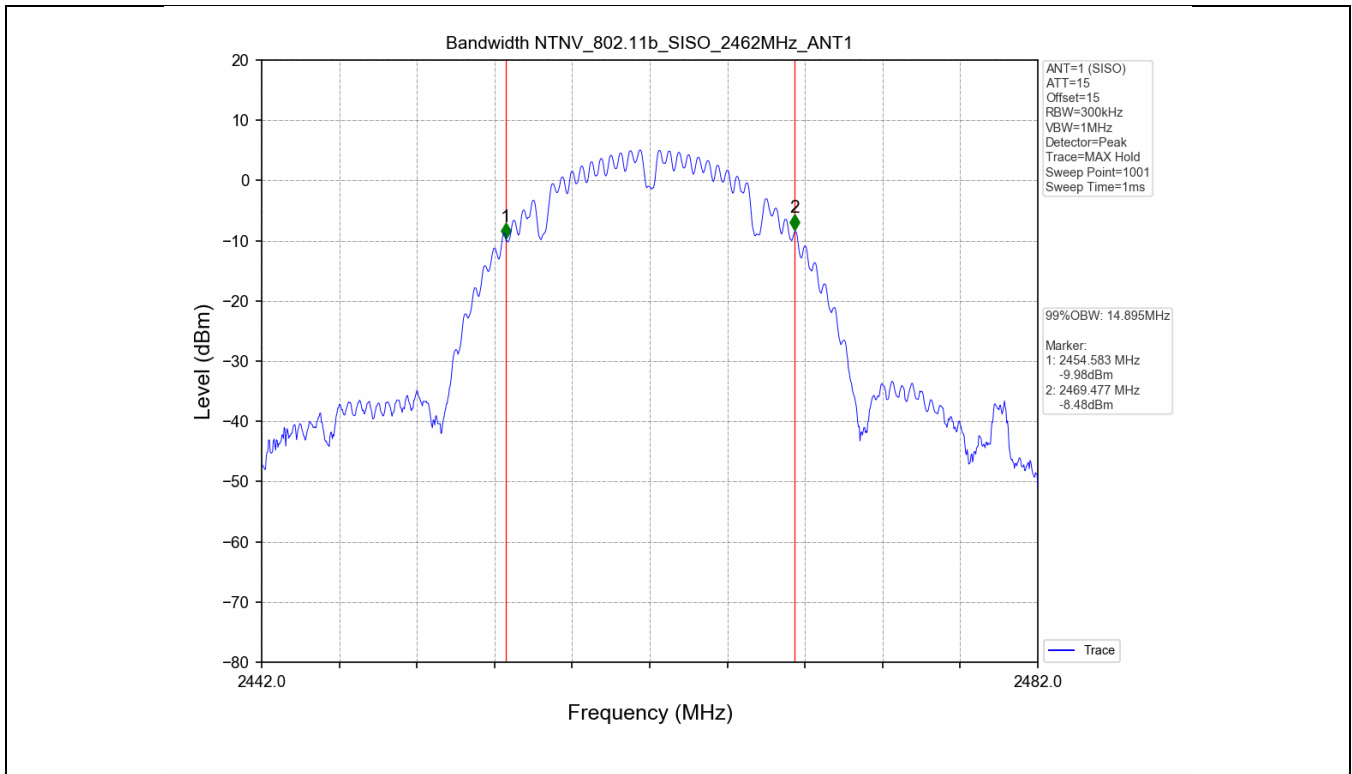
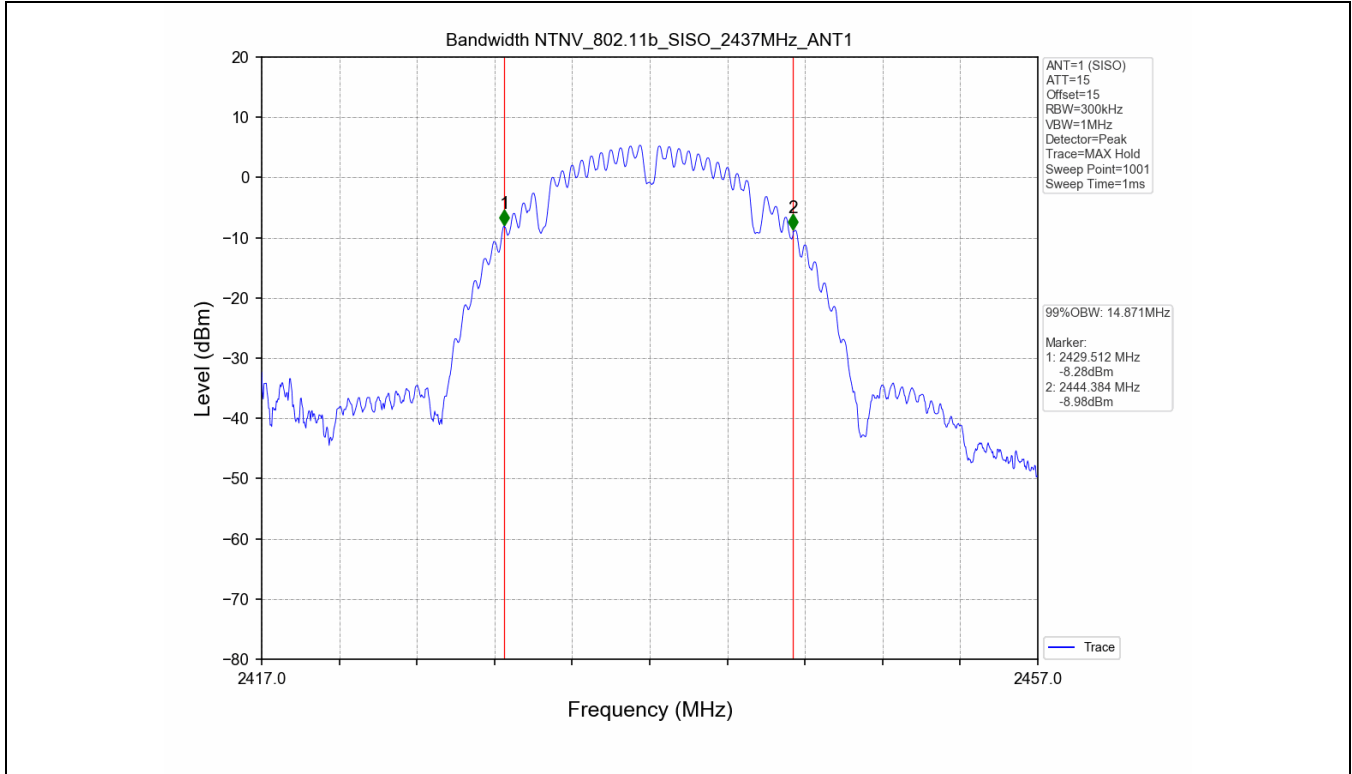


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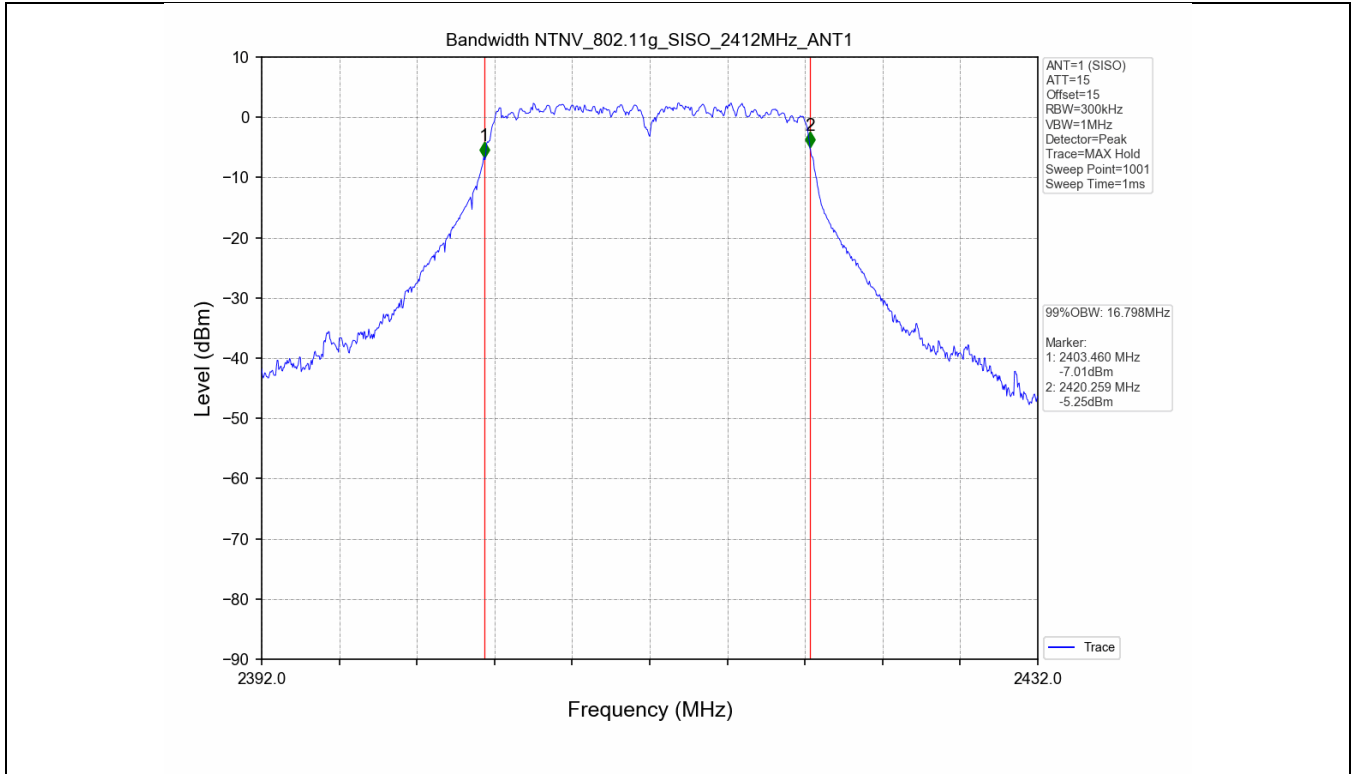
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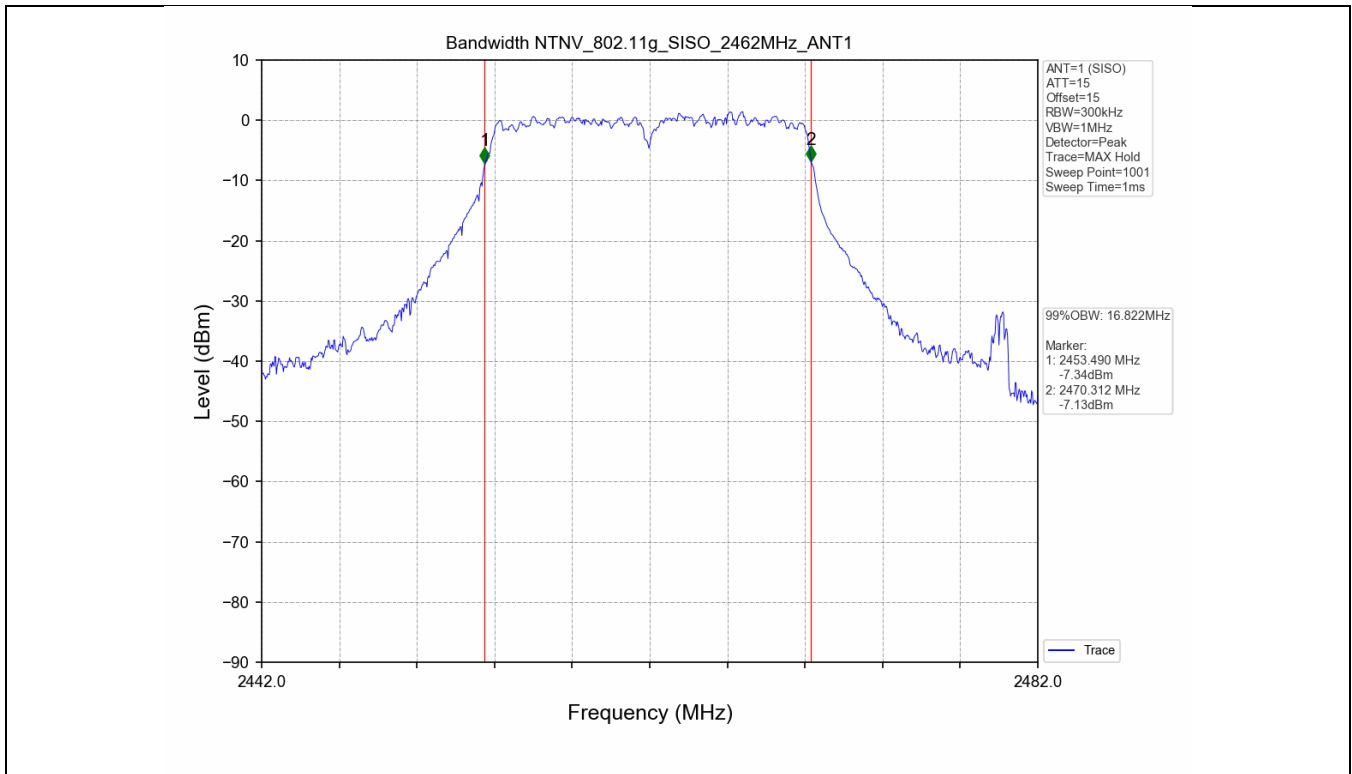
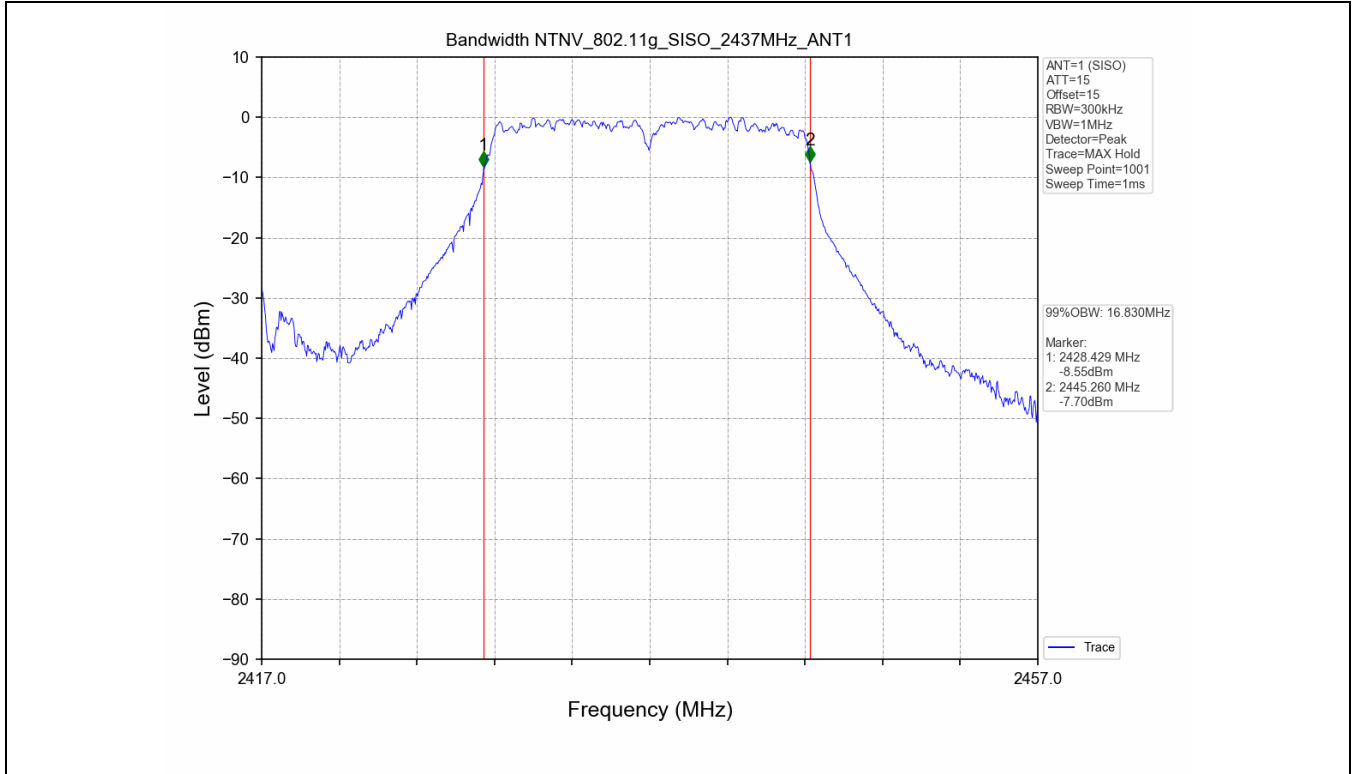


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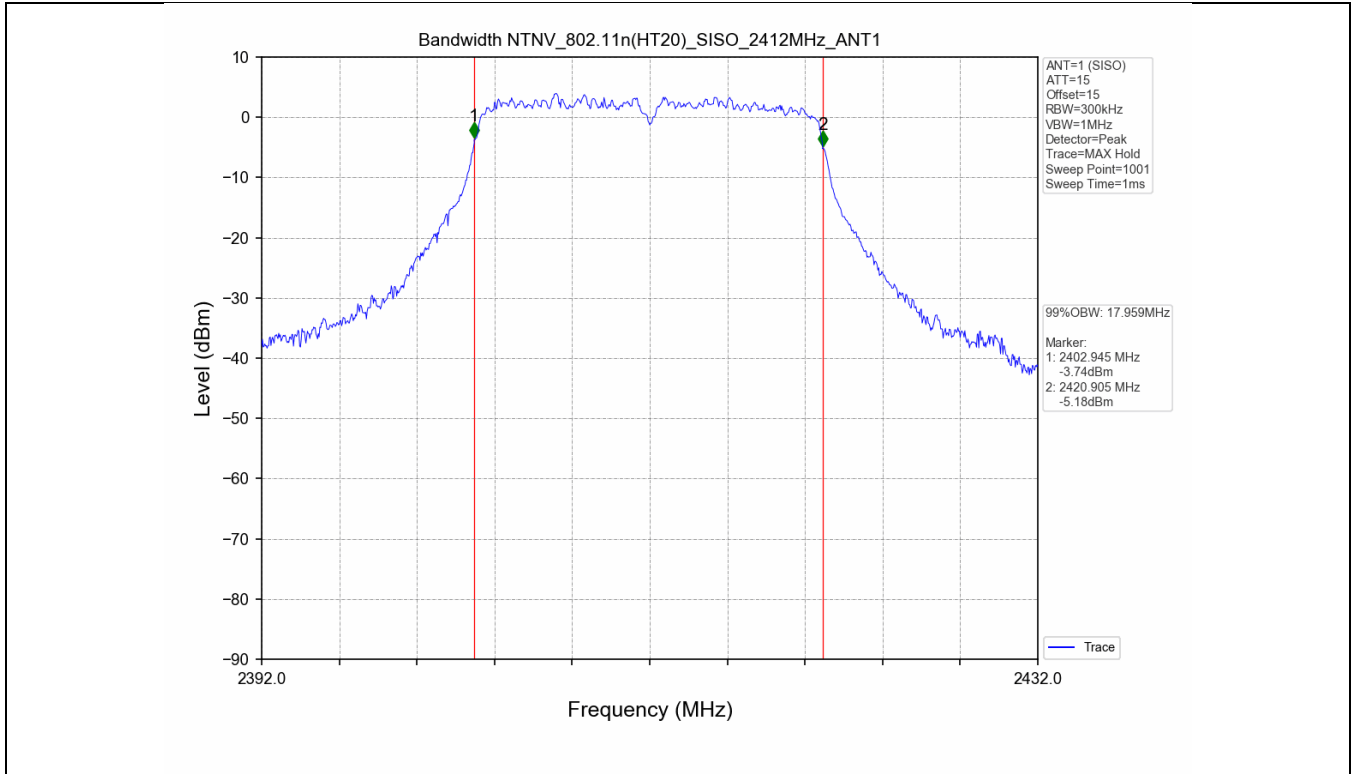


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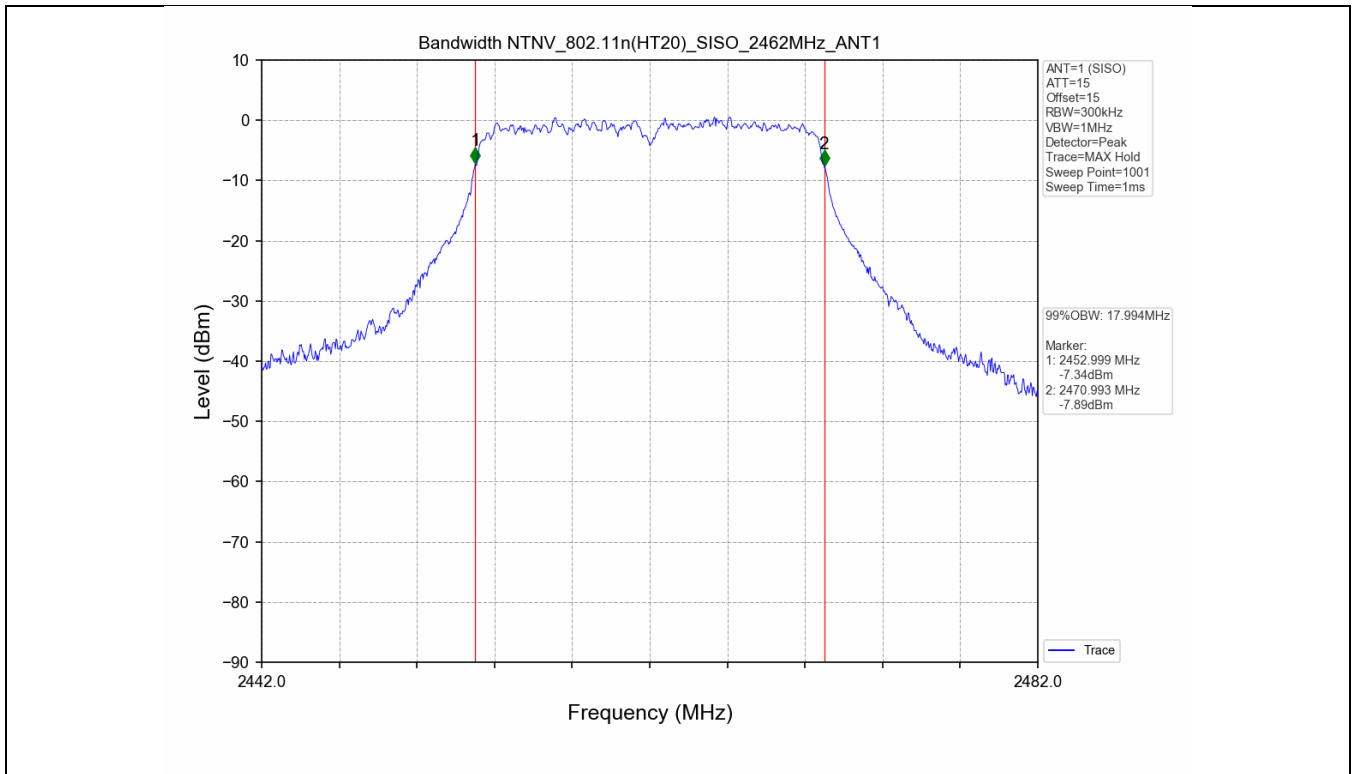
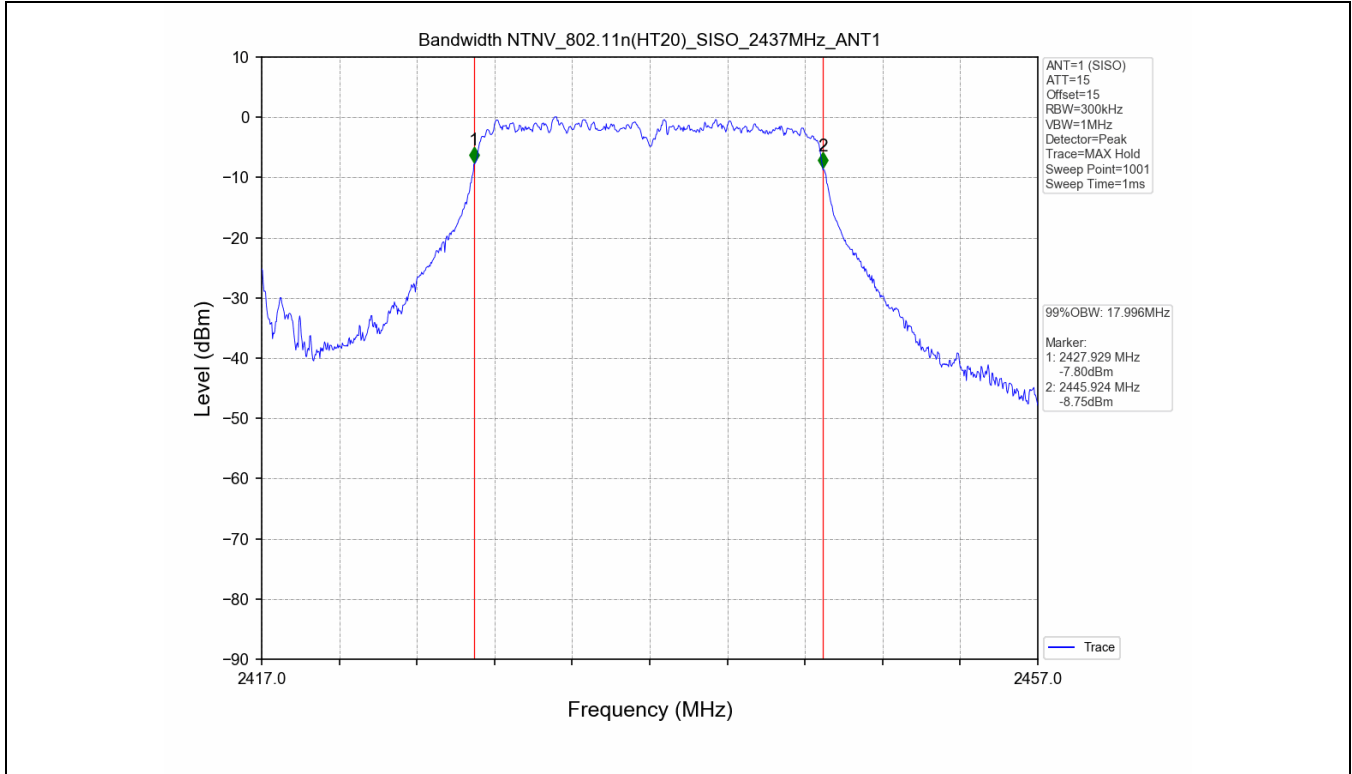
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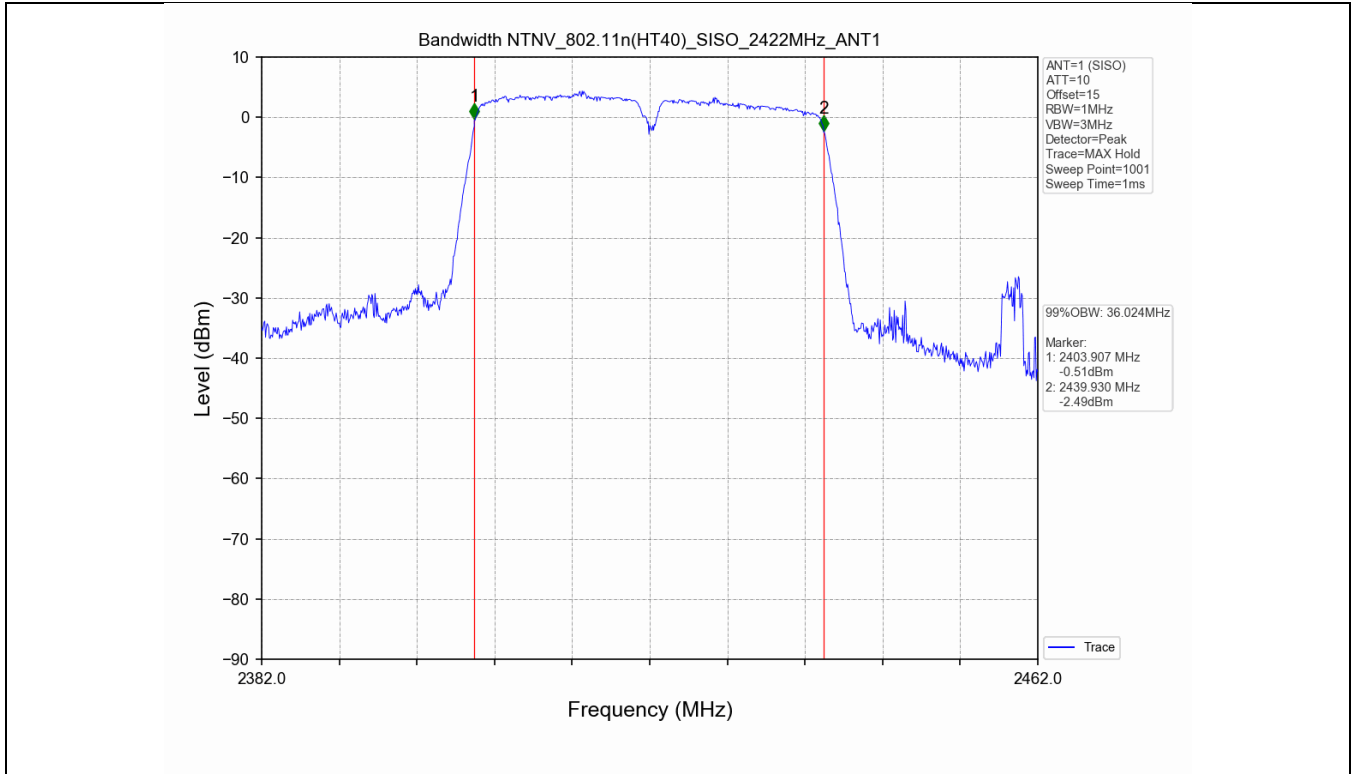


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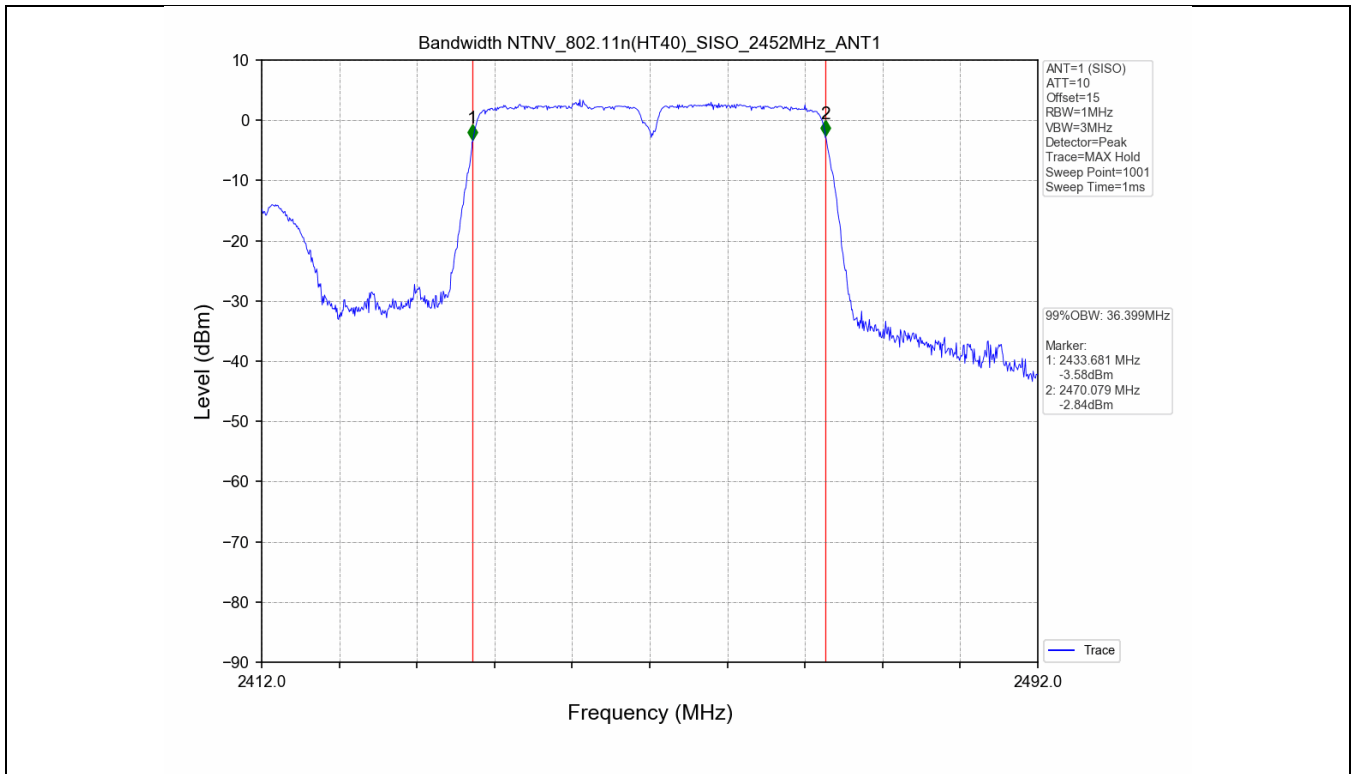
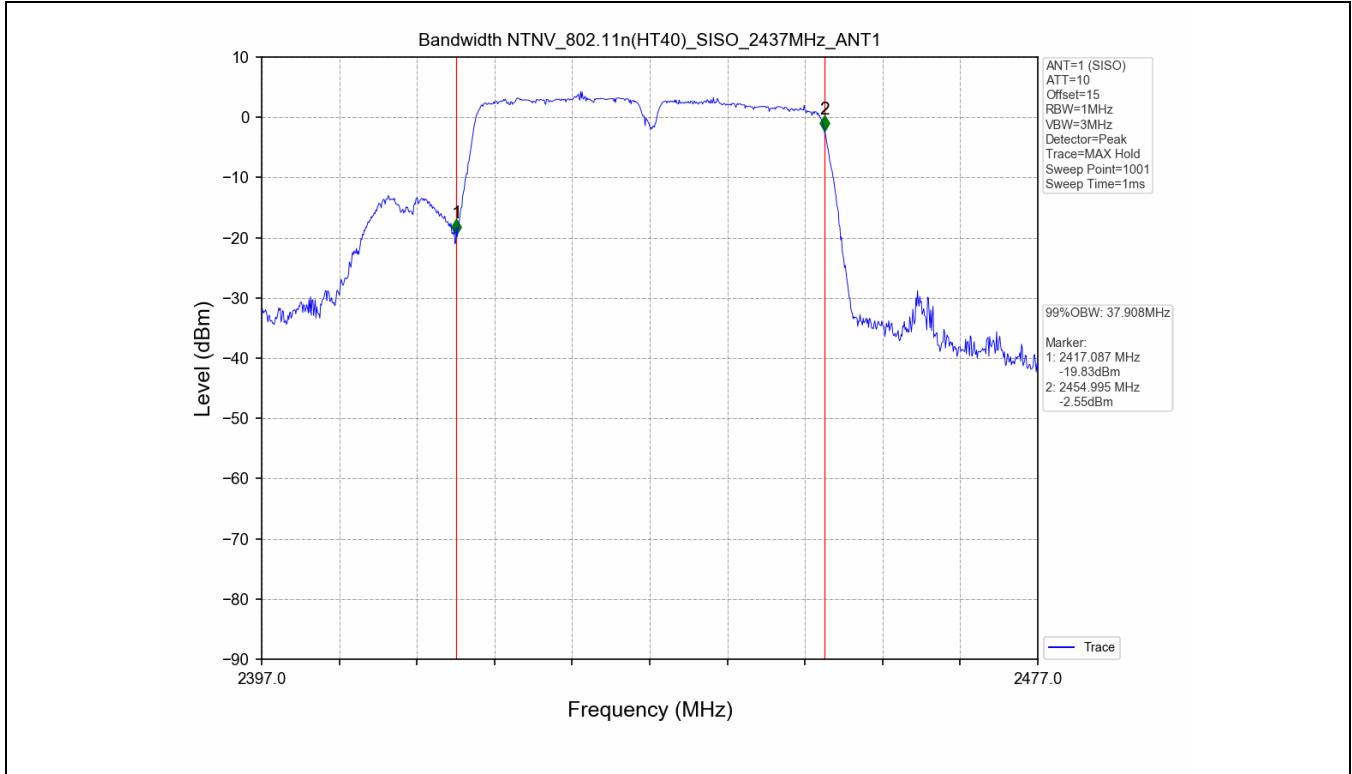
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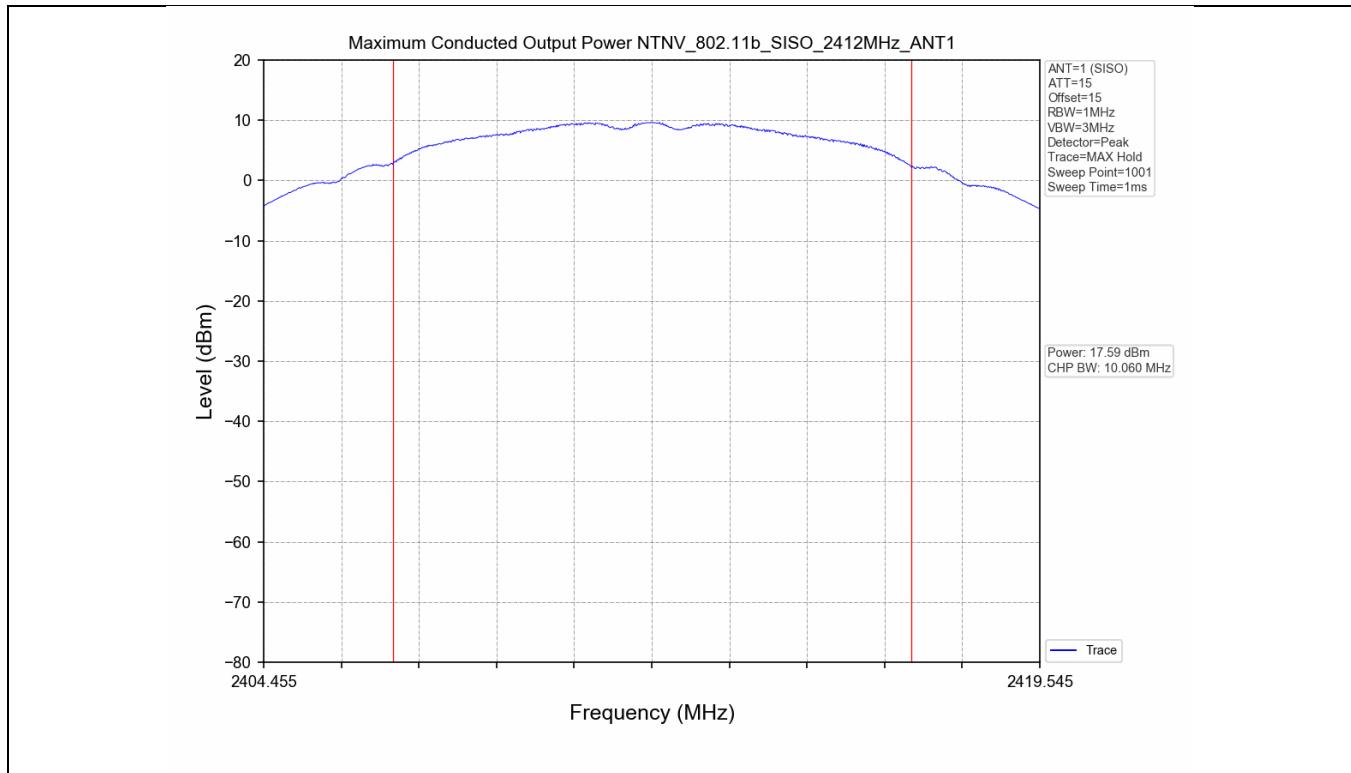
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	17.59	30	PASS
	2437	SISO	17.32	30	PASS
	2462	SISO	17.04	30	PASS
802.11g	2412	SISO	18.08	30	PASS
	2437	SISO	17.99	30	PASS
	2462	SISO	17.68	30	PASS
802.11n(HT20)	2412	SISO	17.48	30	PASS
	2437	SISO	17.51	30	PASS
	2462	SISO	17.32	30	PASS
802.11n(HT40)	2422	SISO	17.61	30	PASS
	2437	SISO	17.45	30	PASS
	2452	SISO	17.22	30	PASS

3.2 Test Graph

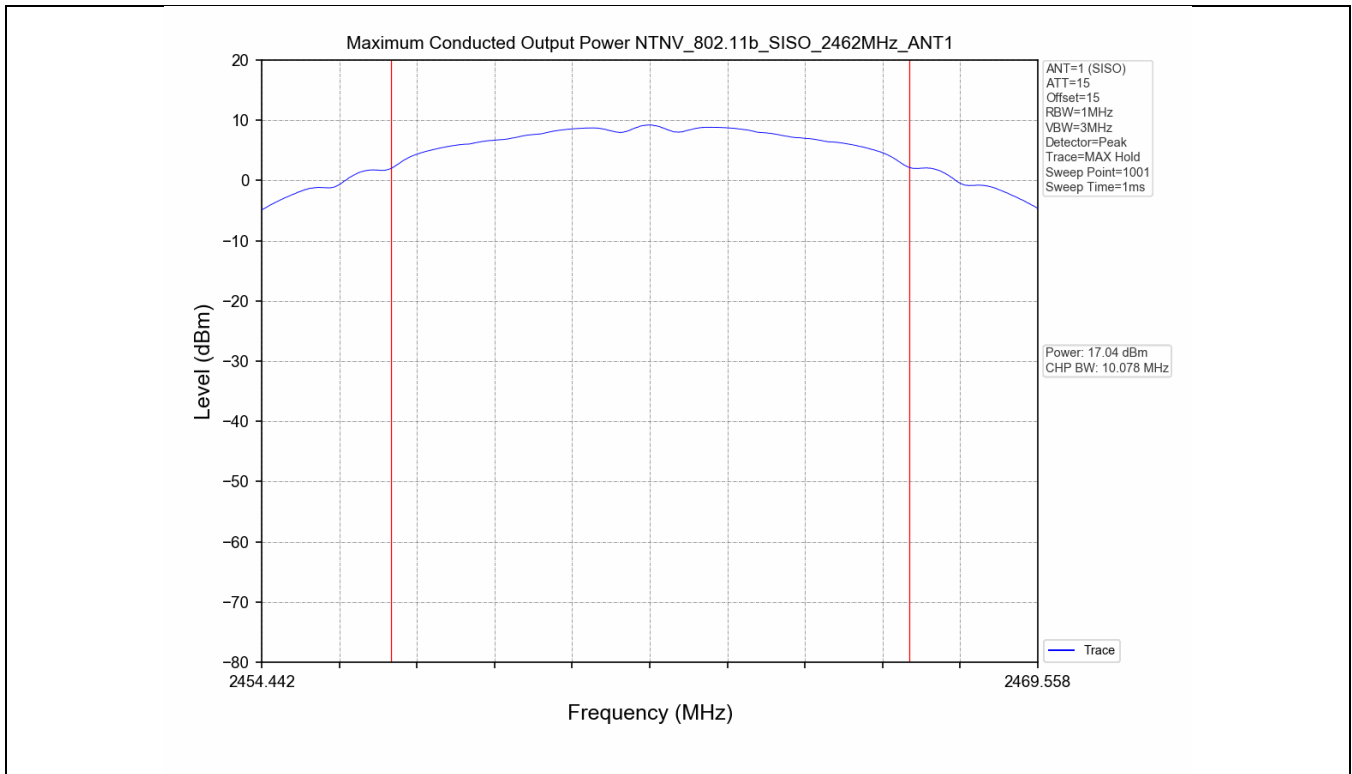
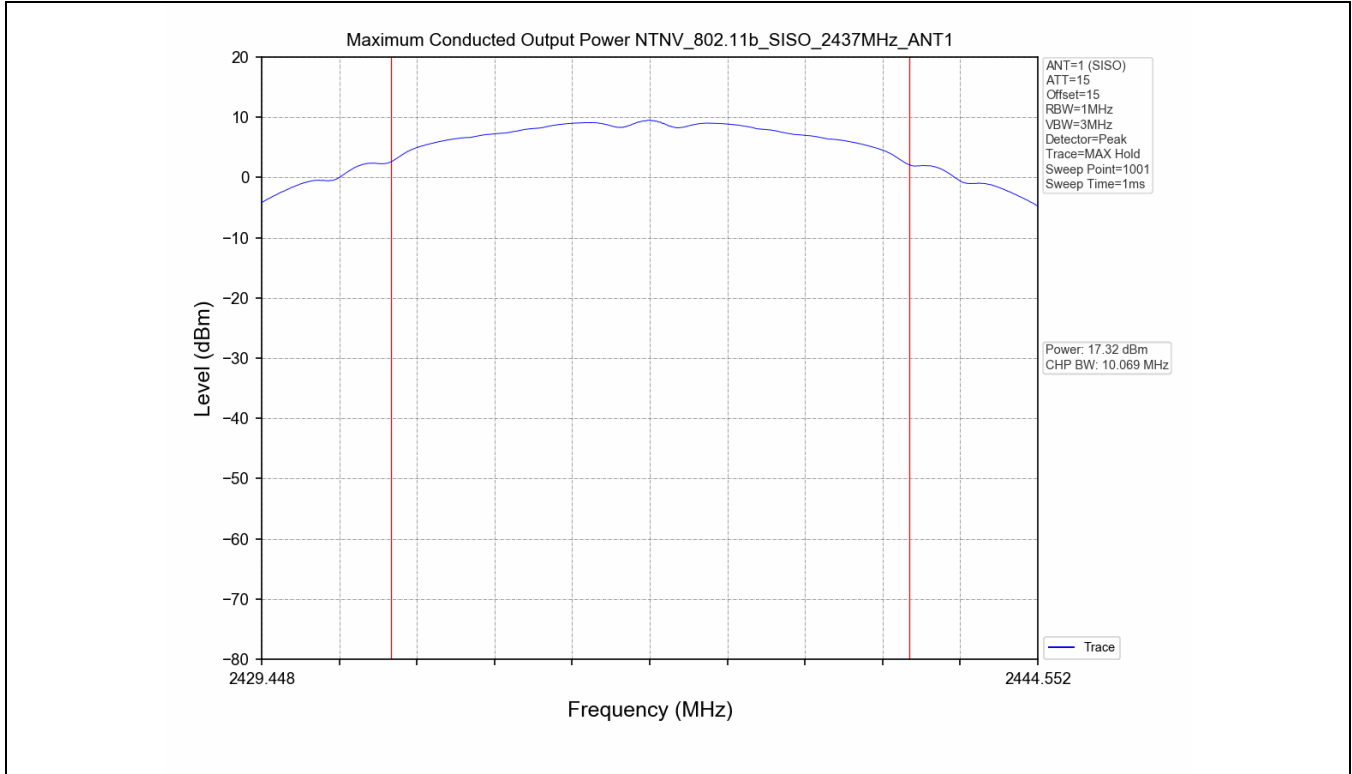


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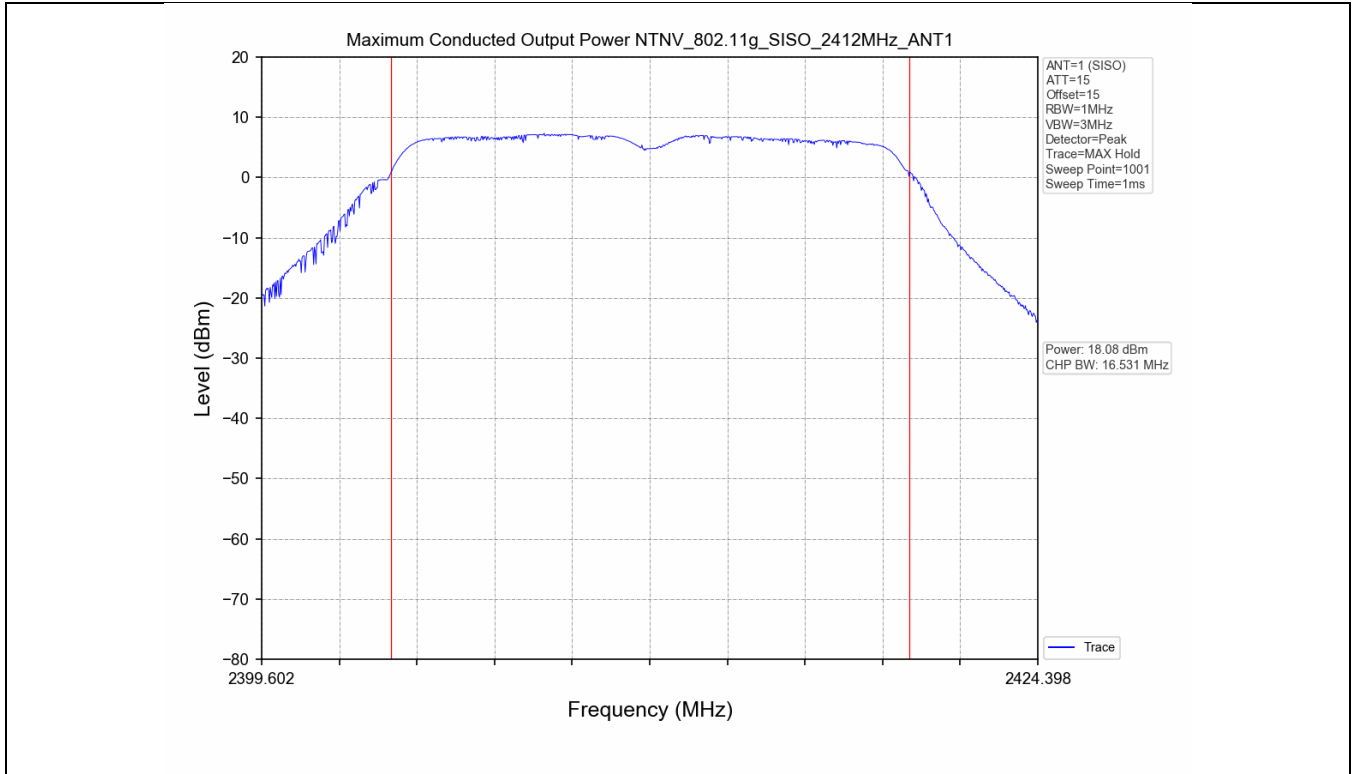
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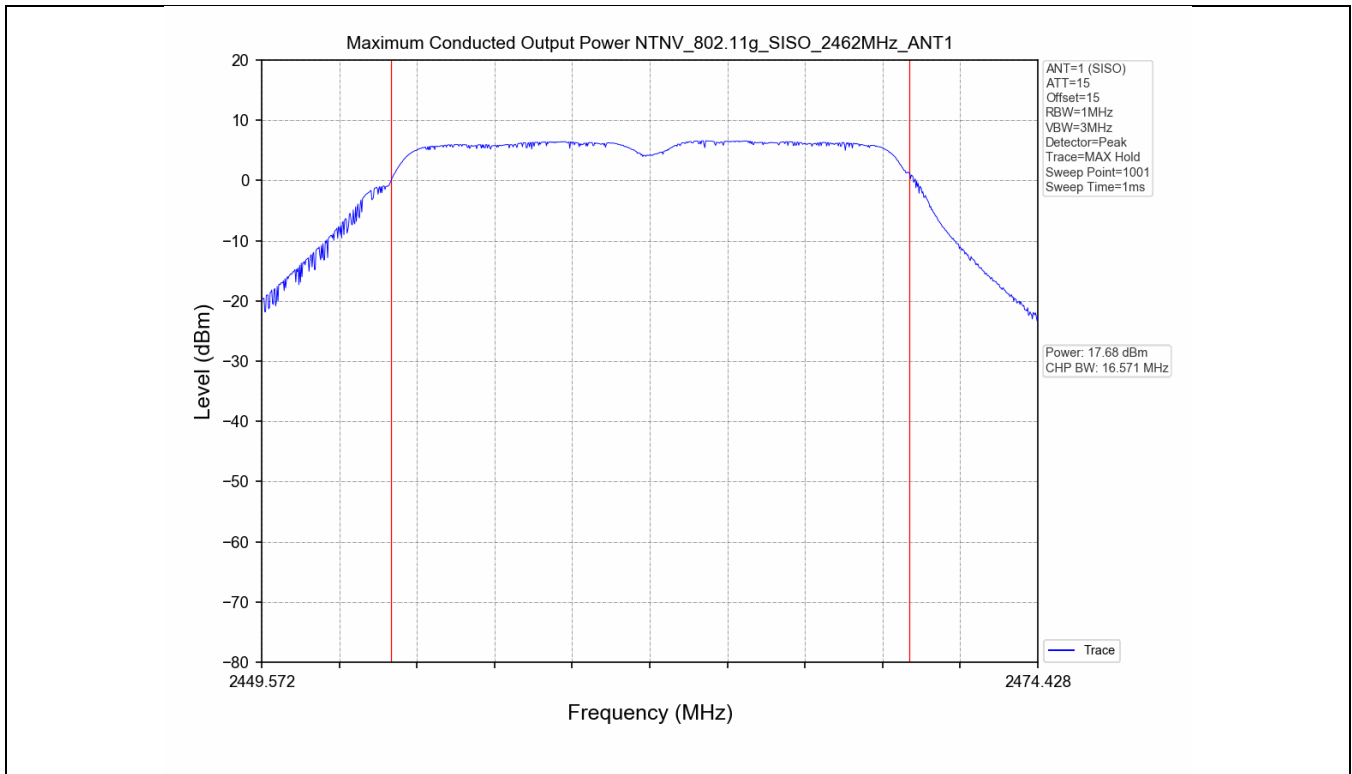
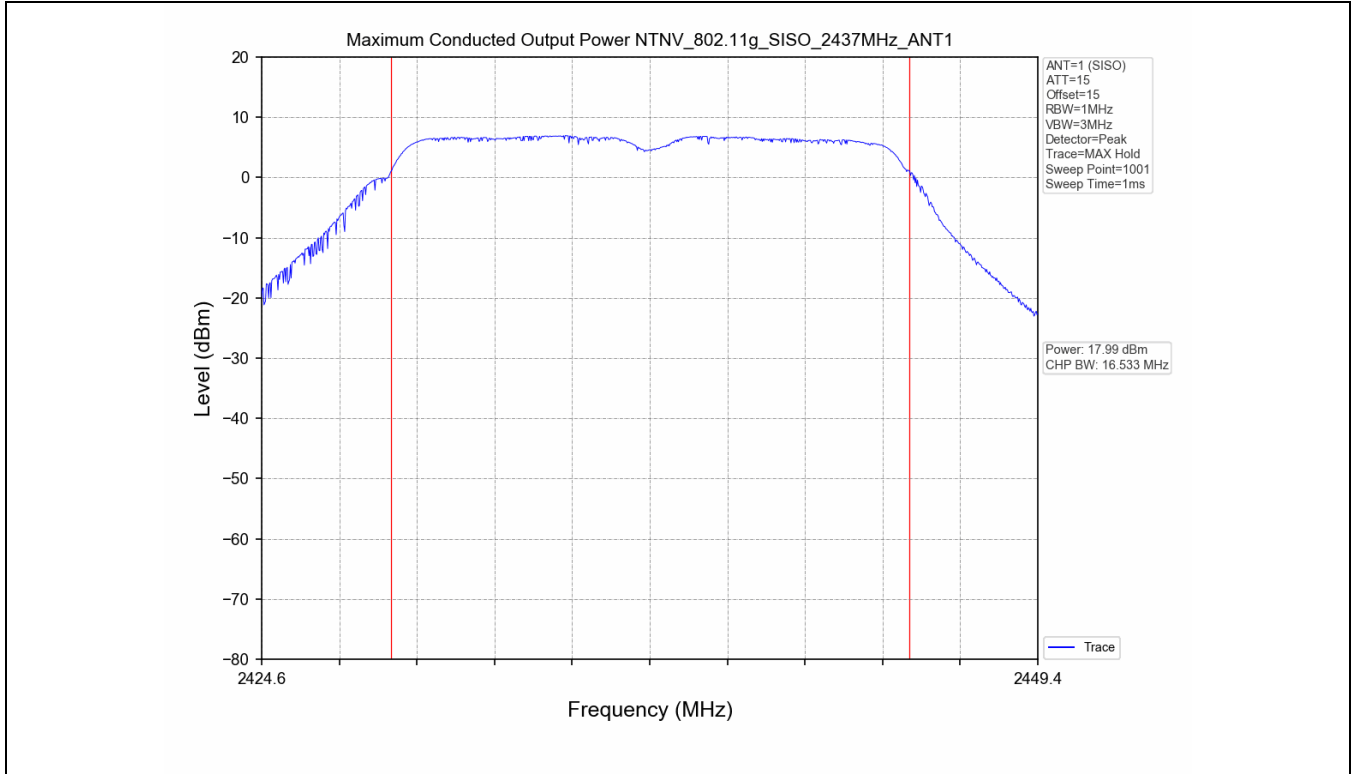
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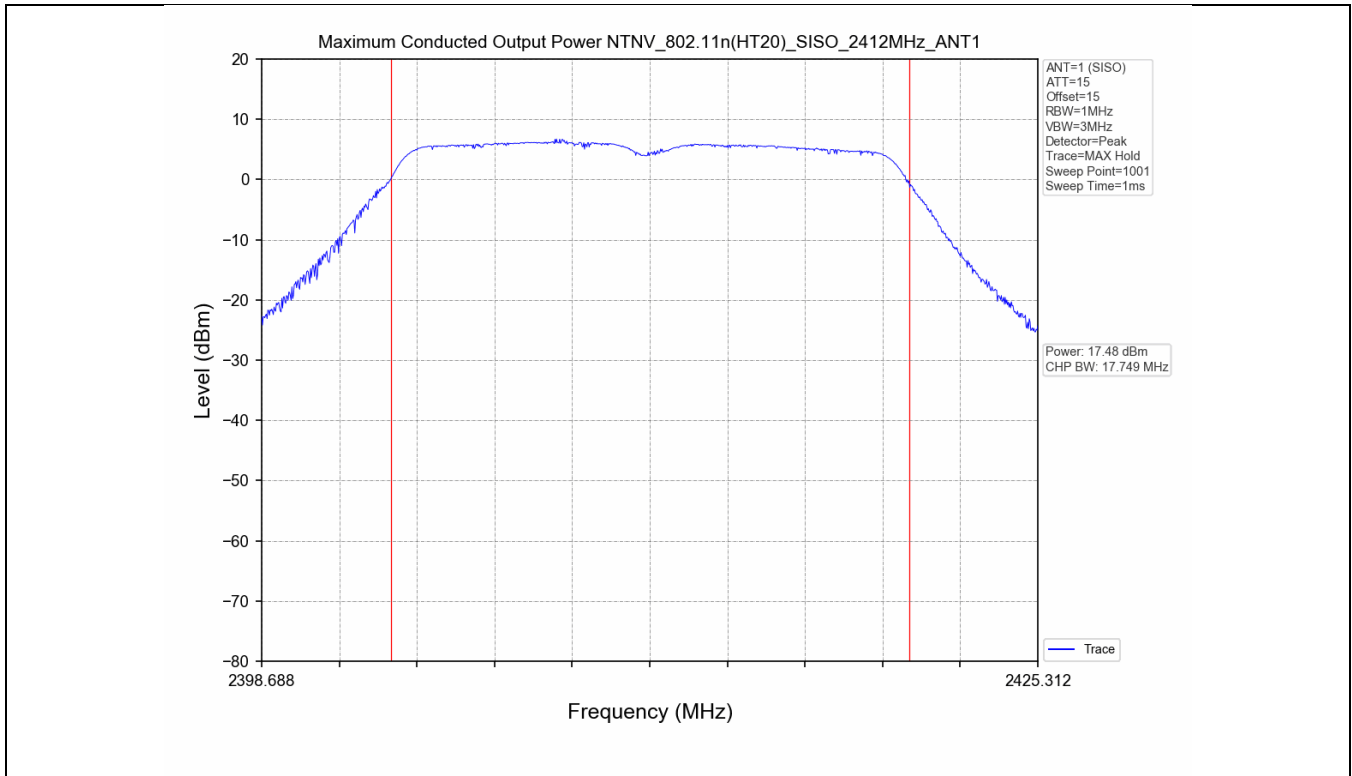
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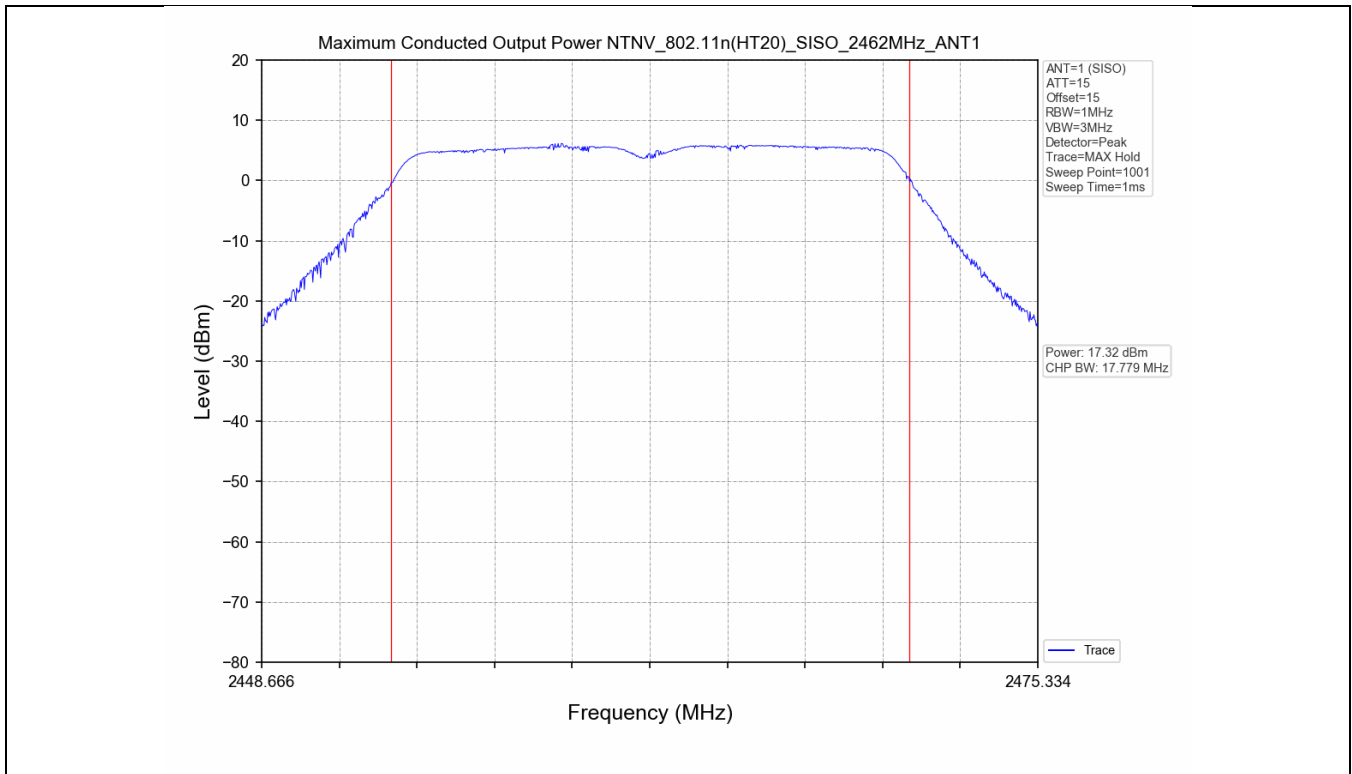
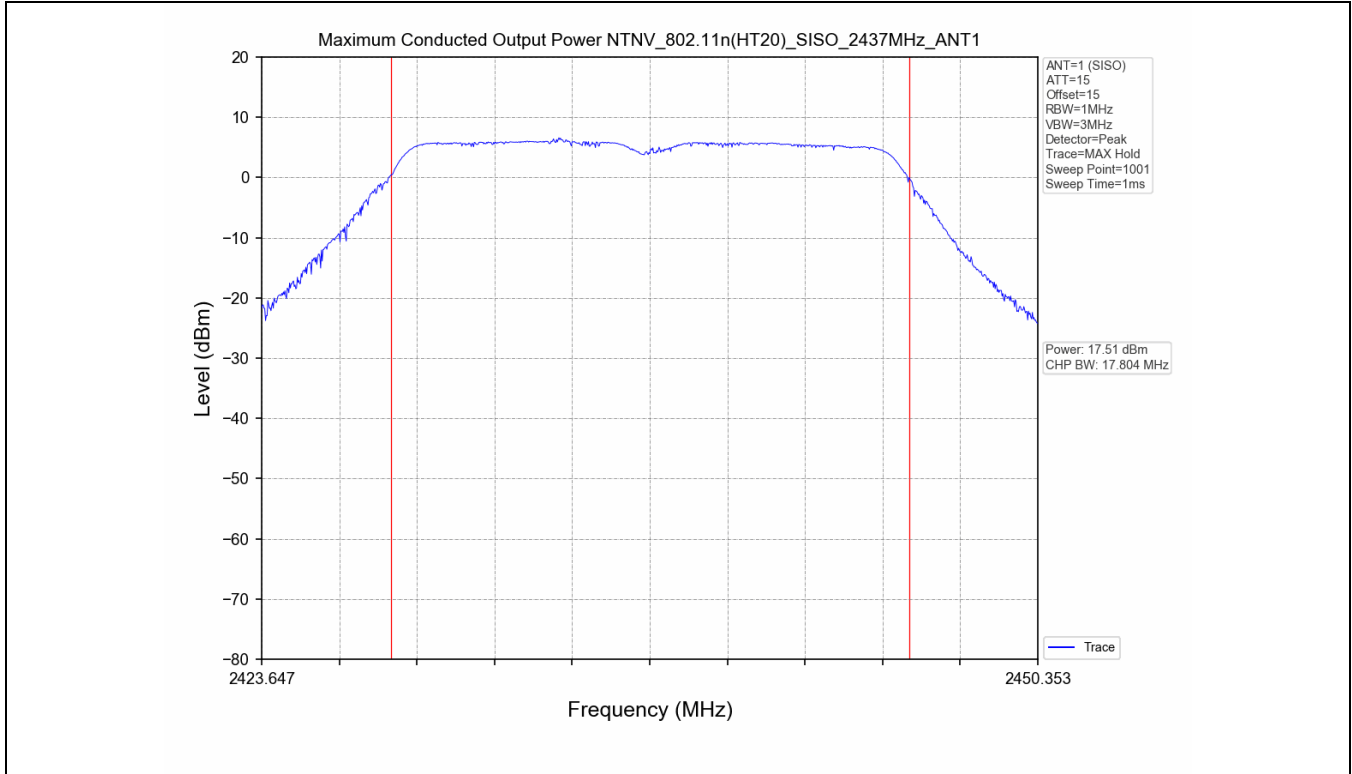
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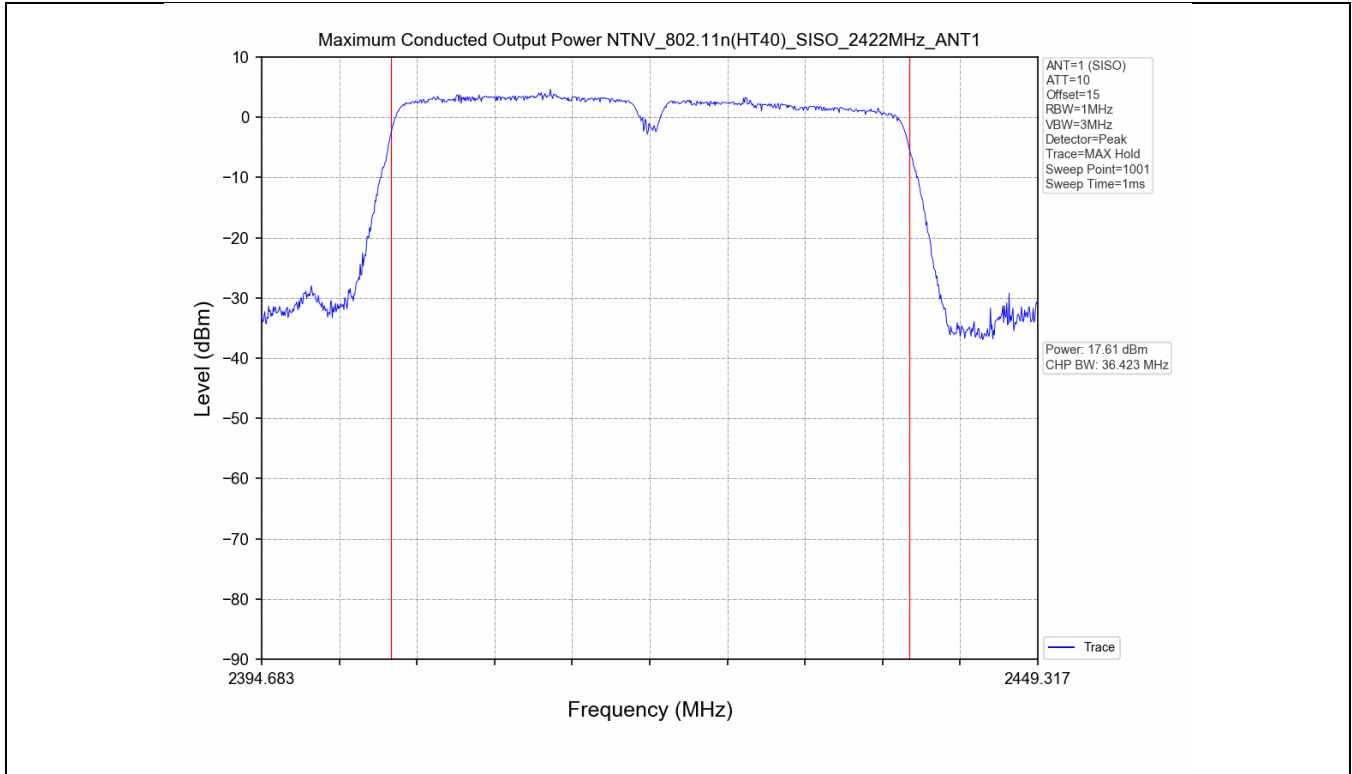
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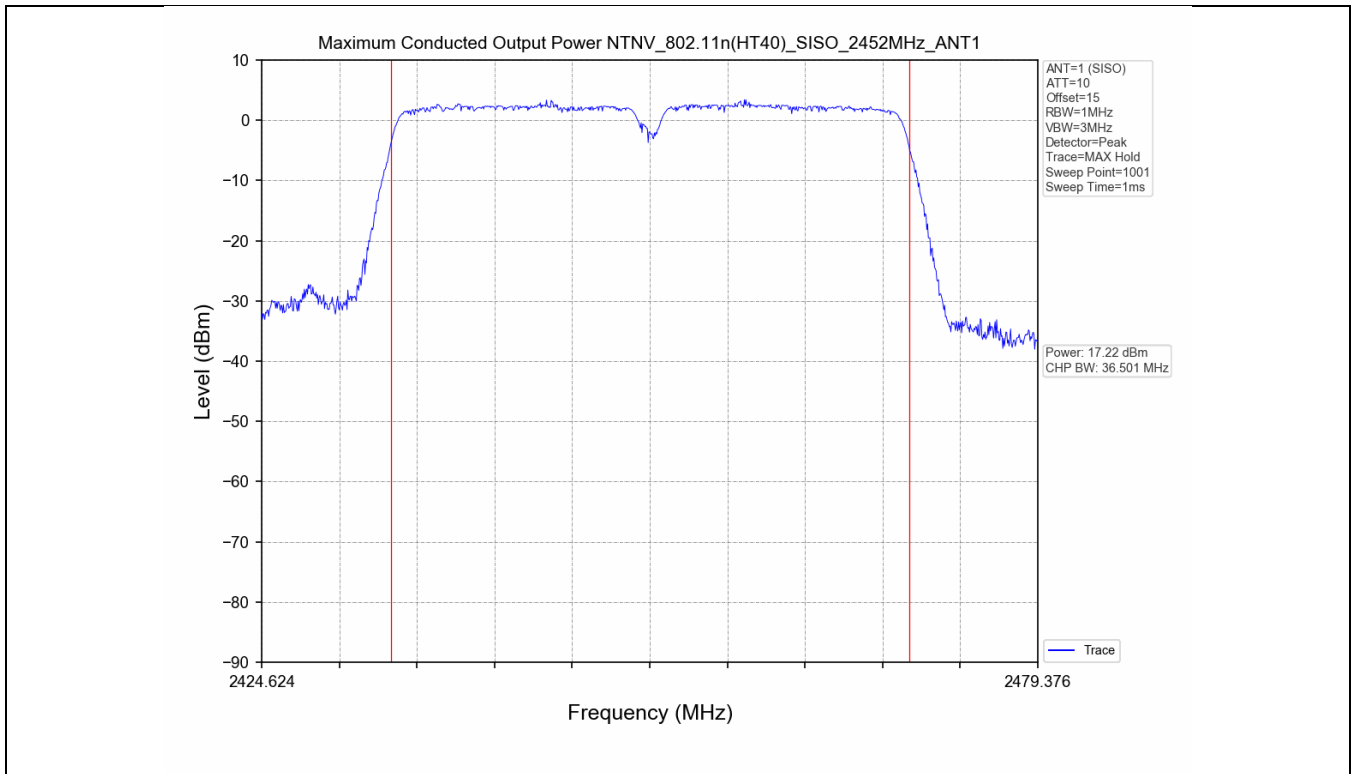
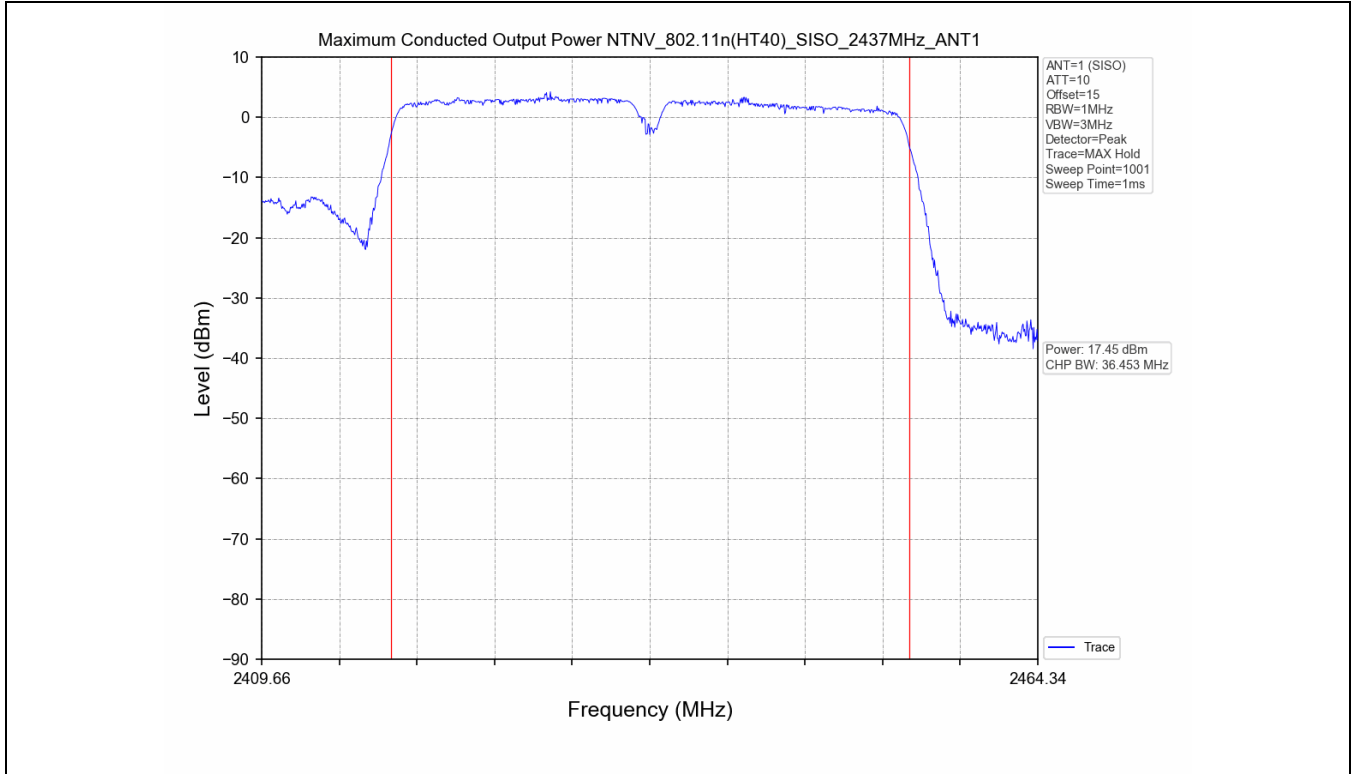


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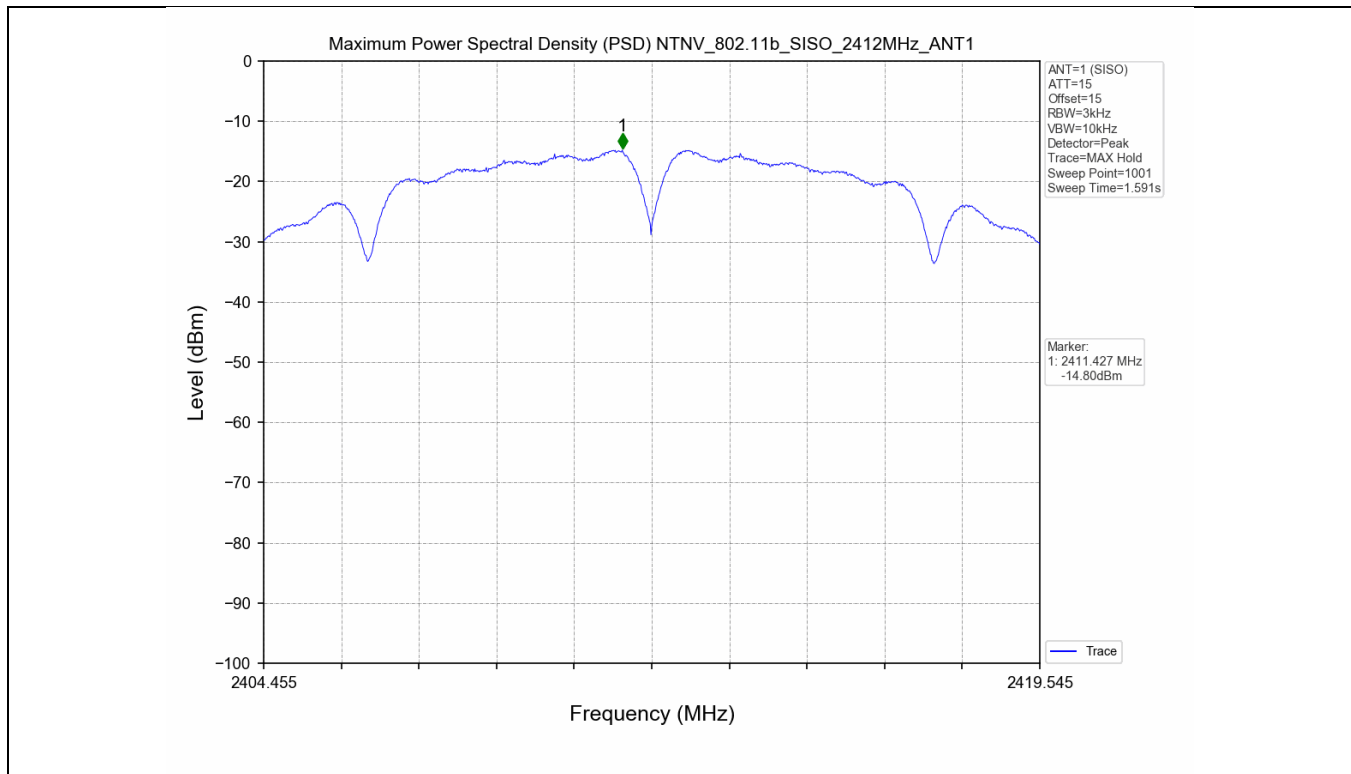
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4. Maximum Power Spectral Density (PSD)

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	-14.80	≤8	PASS
	2437	SISO	-14.90	≤8	PASS
	2462	SISO	-15.17	≤8	PASS
802.11g	2412	SISO	-17.66	≤8	PASS
	2437	SISO	-17.70	≤8	PASS
	2462	SISO	-18.31	≤8	PASS
802.11n(HT20)	2412	SISO	-18.26	≤8	PASS
	2437	SISO	-18.05	≤8	PASS
	2462	SISO	-18.49	≤8	PASS
802.11n(HT40)	2422	SISO	-17.52	≤8	PASS
	2437	SISO	-17.62	≤8	PASS
	2452	SISO	-18.70	≤8	PASS

4.2 Test Graph

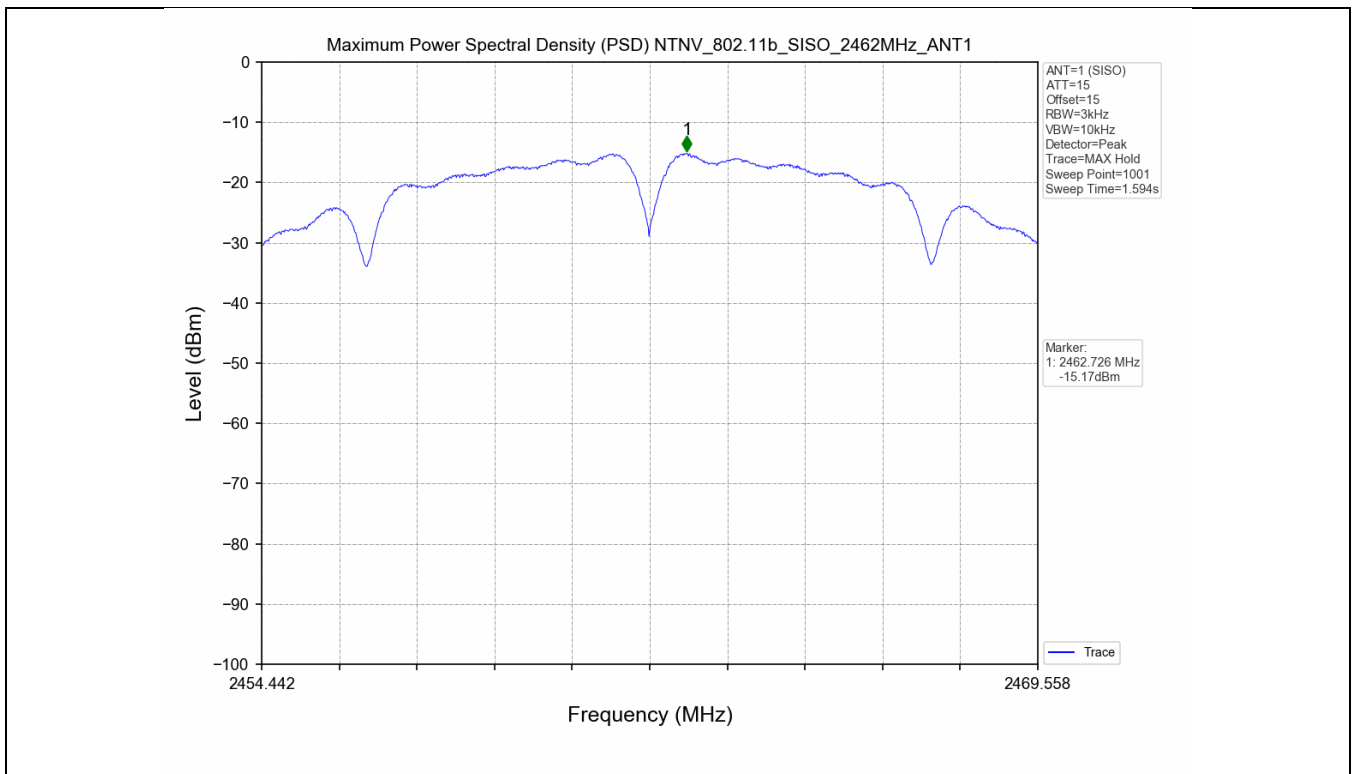
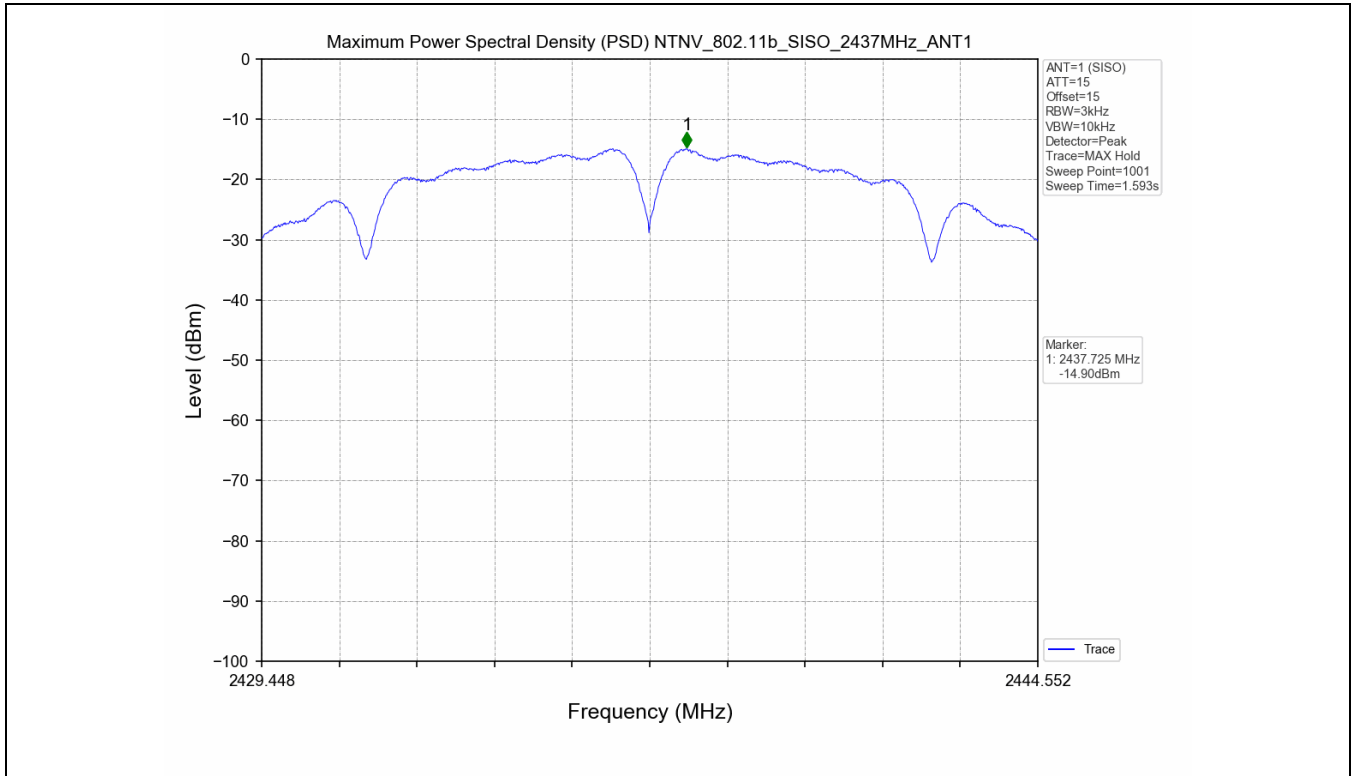


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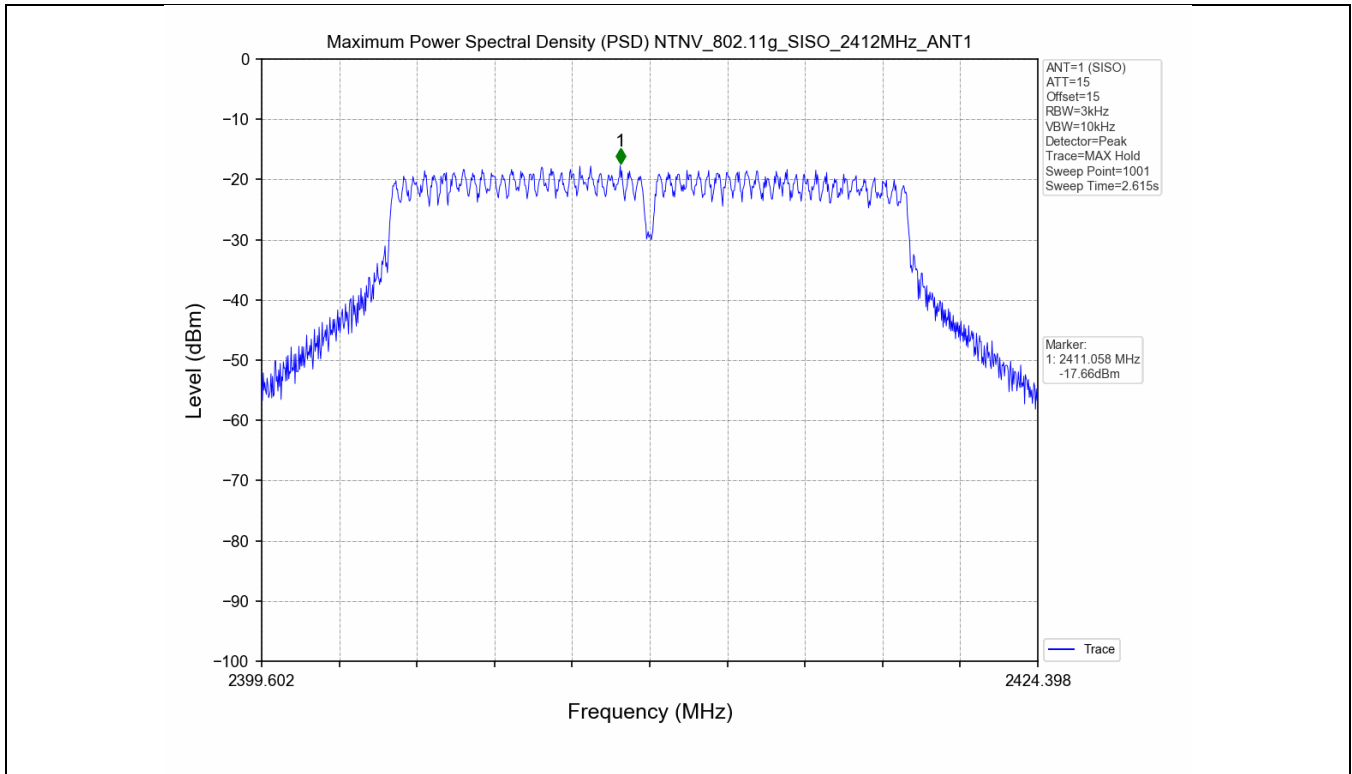
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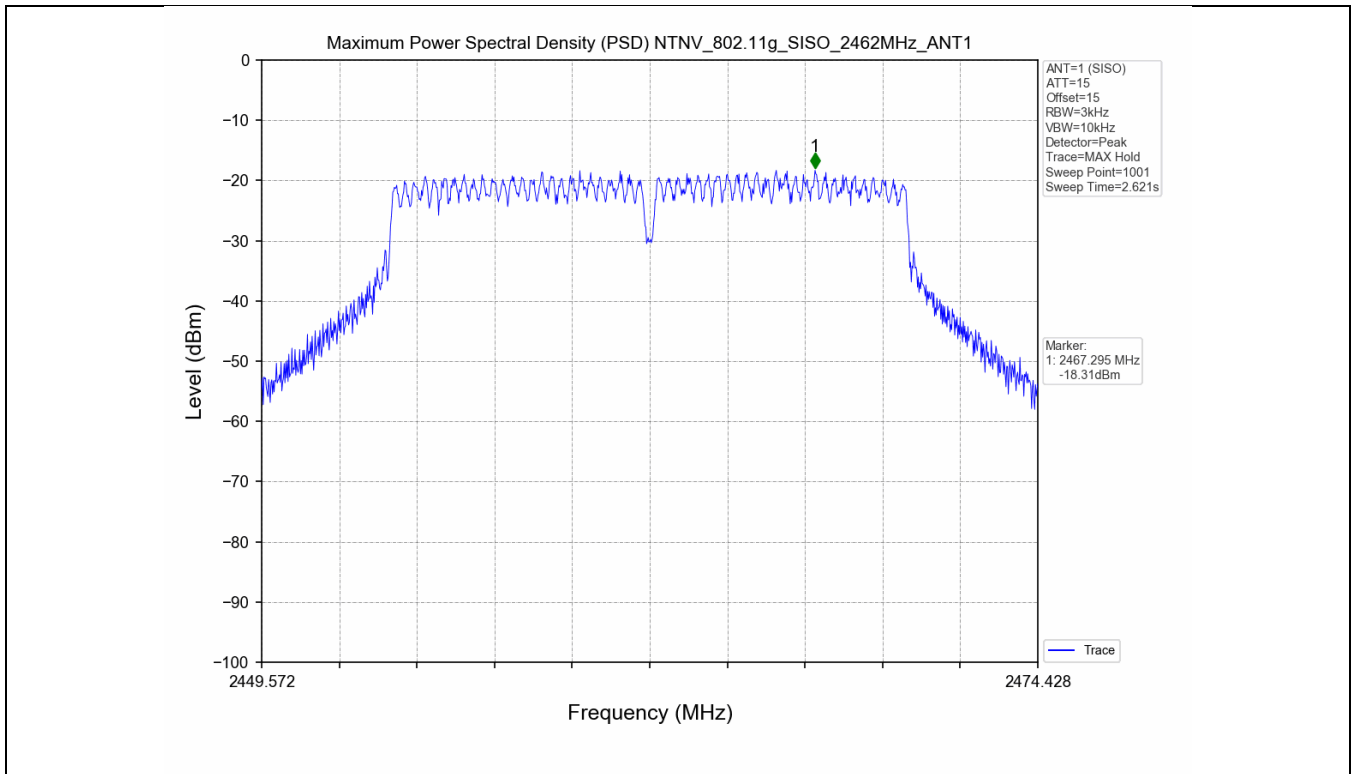
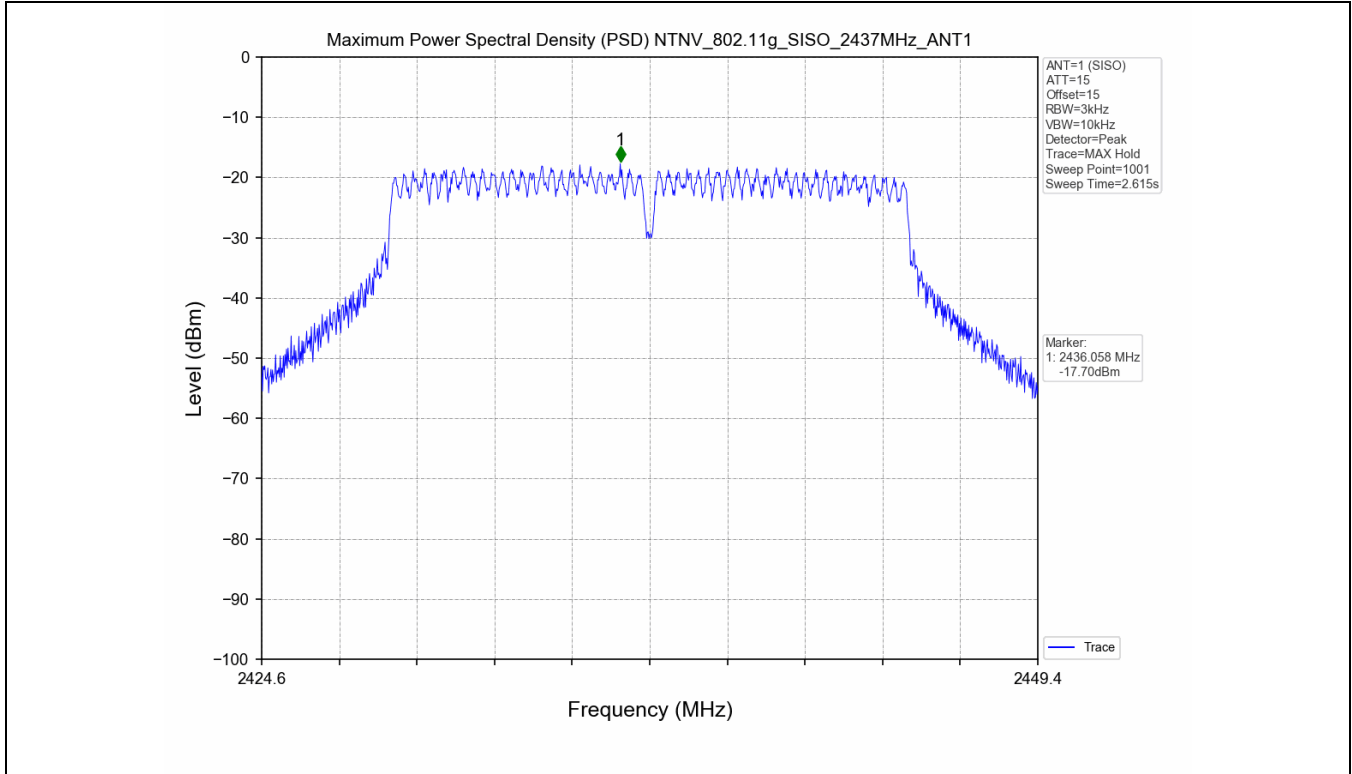


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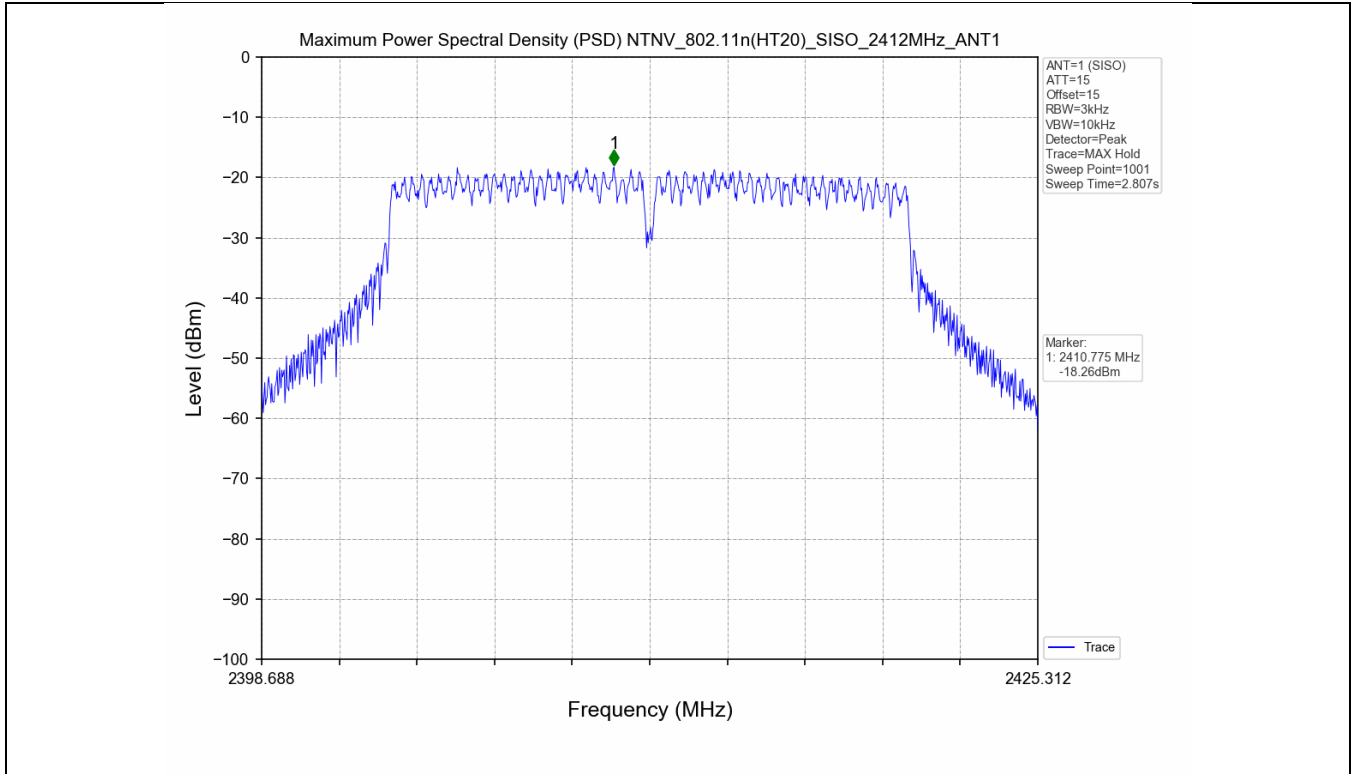


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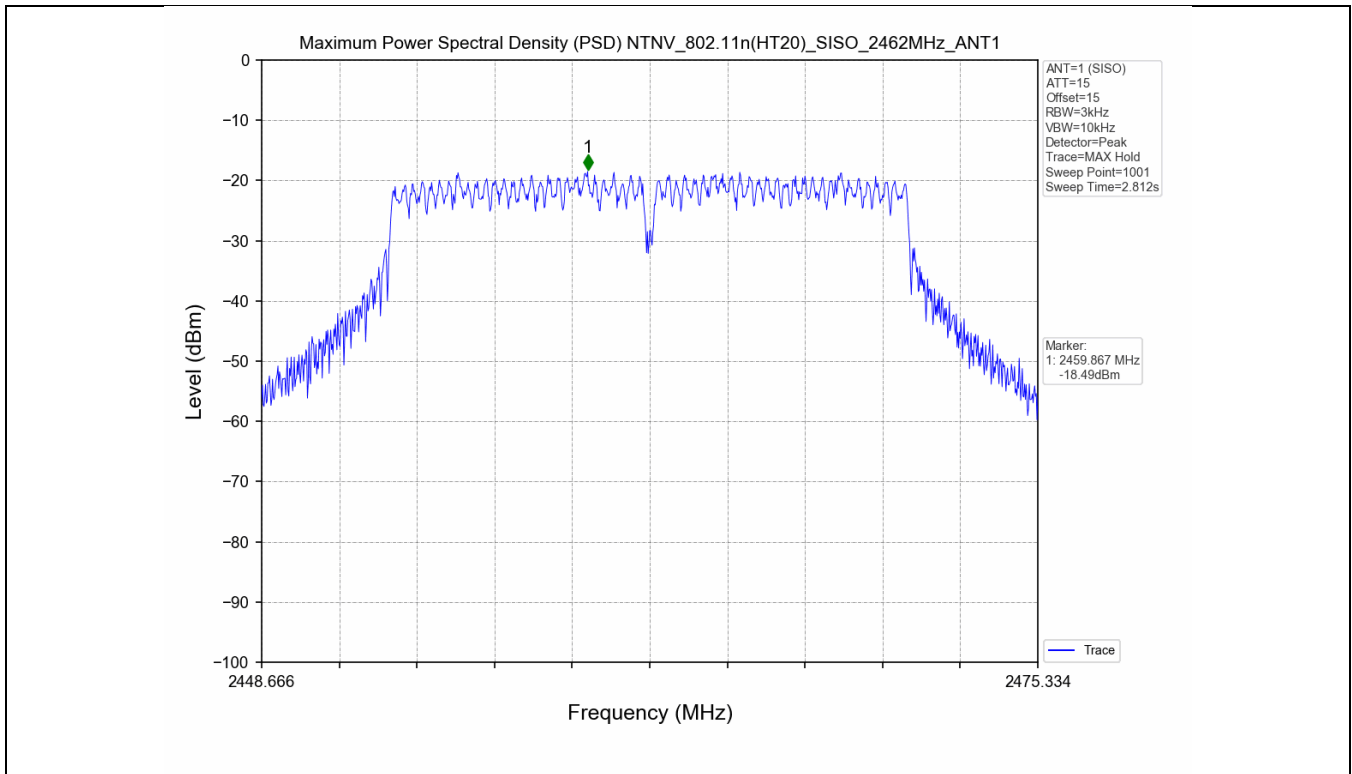
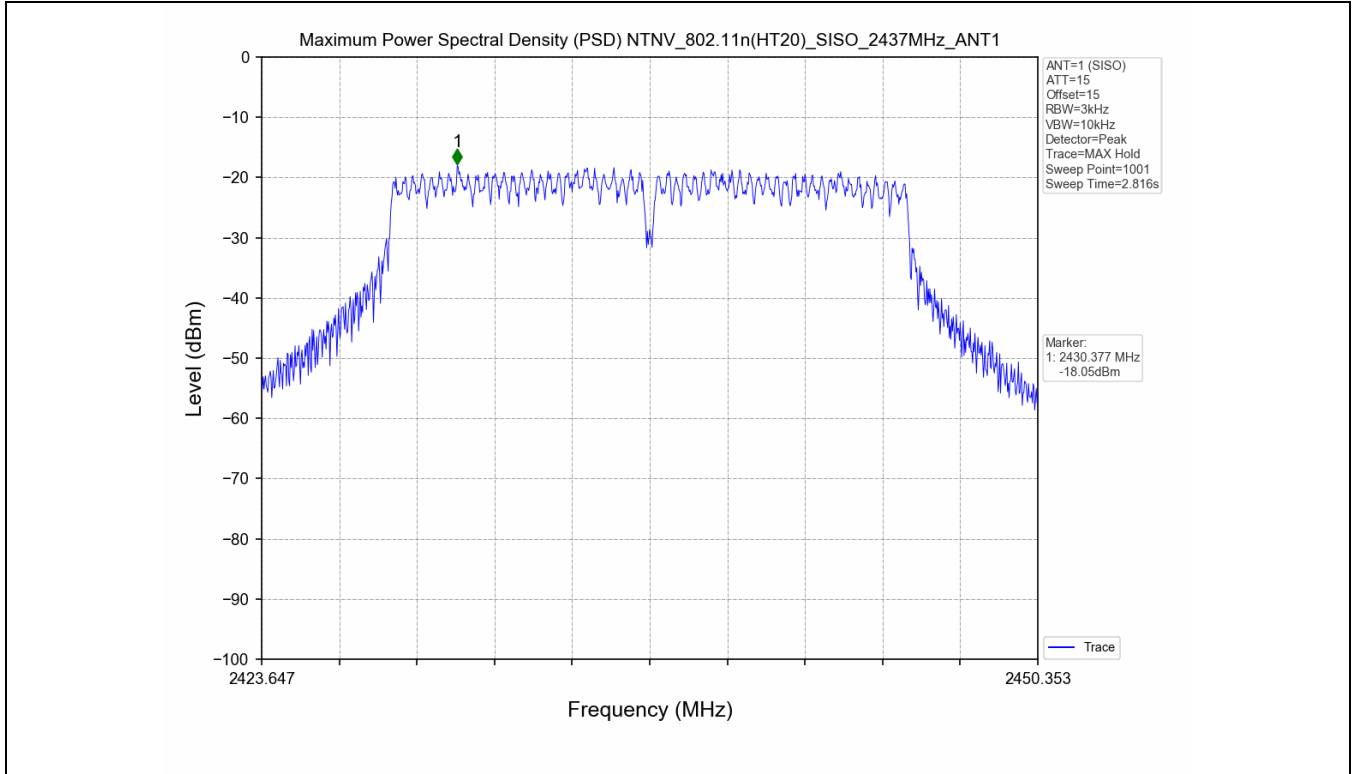


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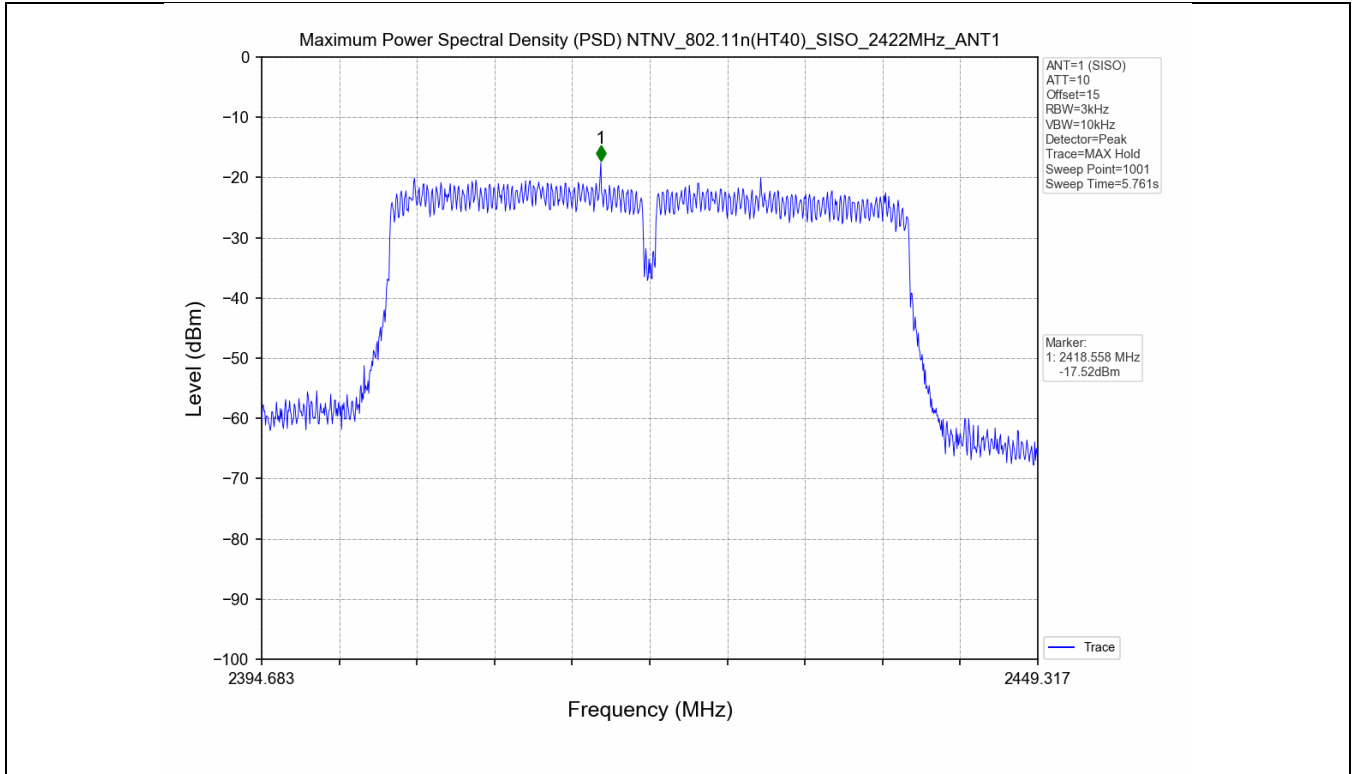


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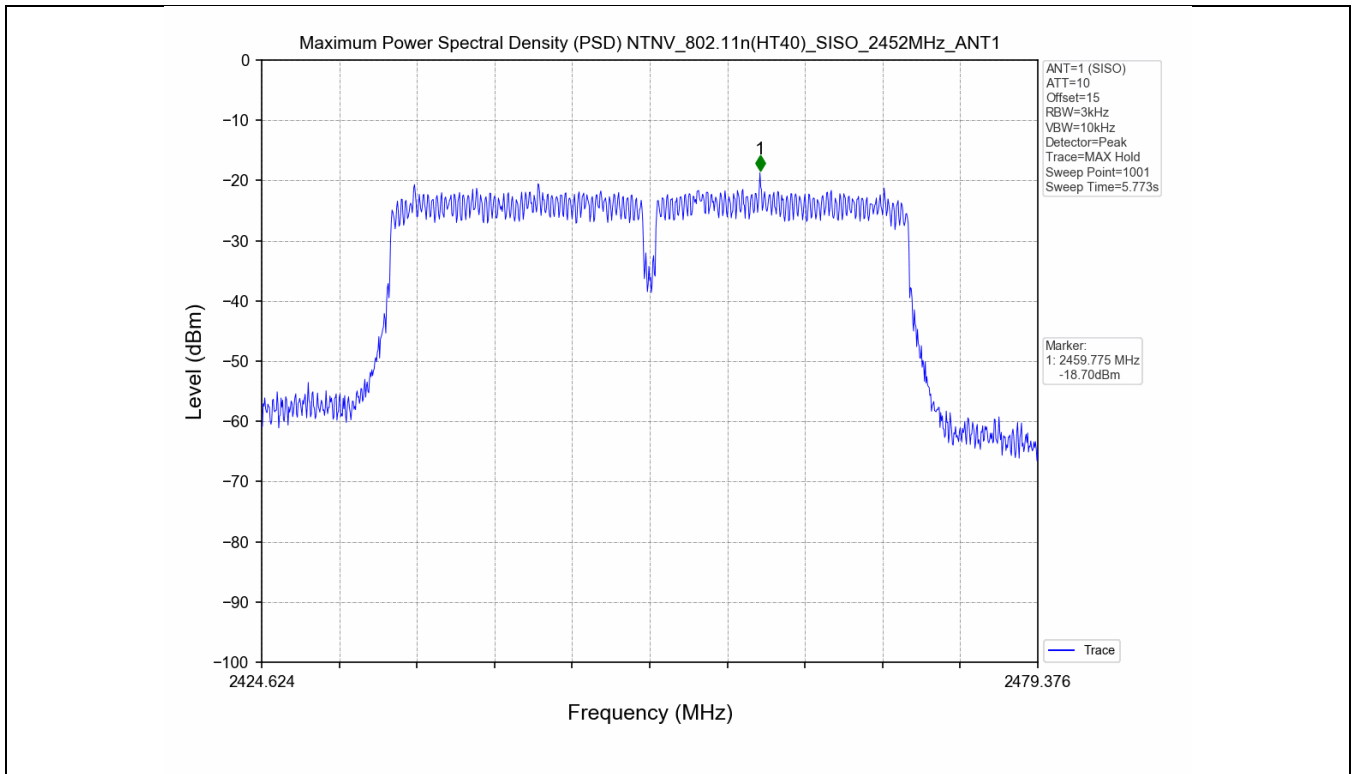
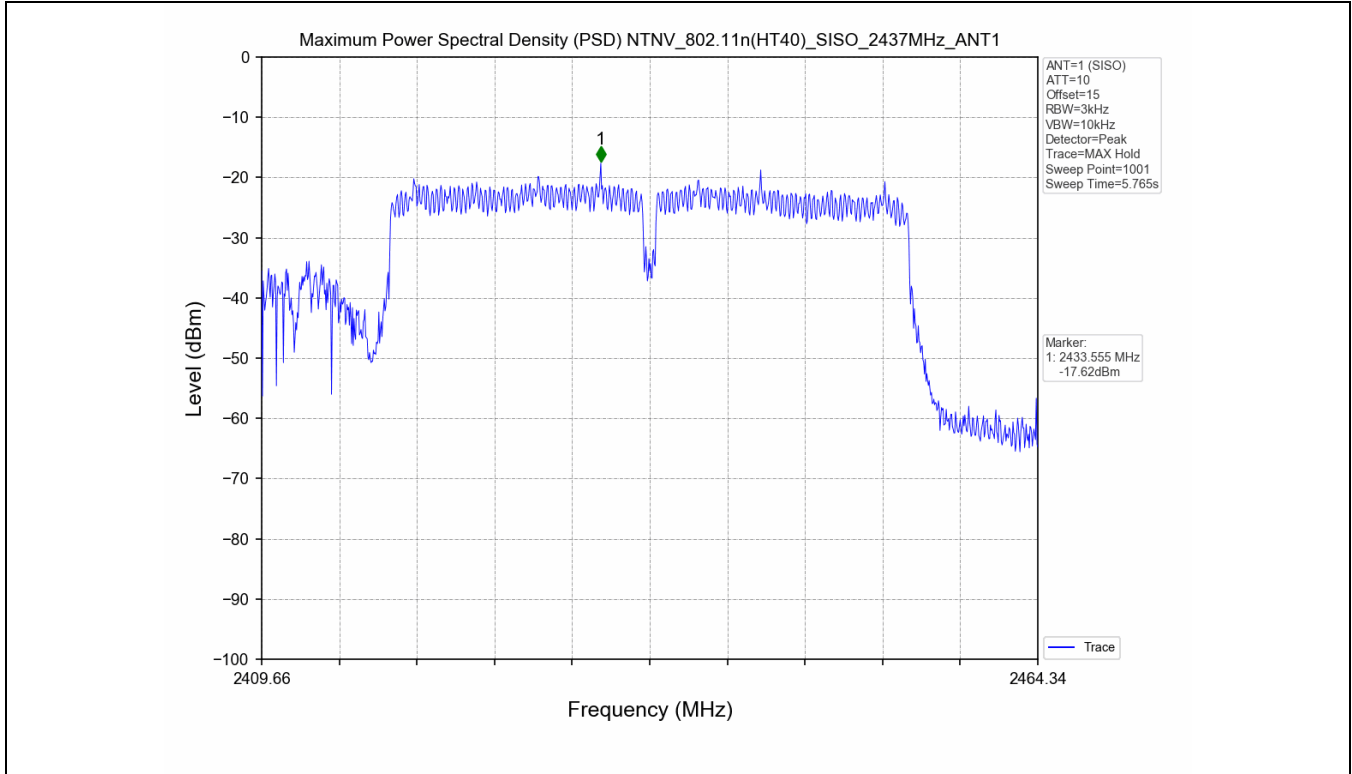


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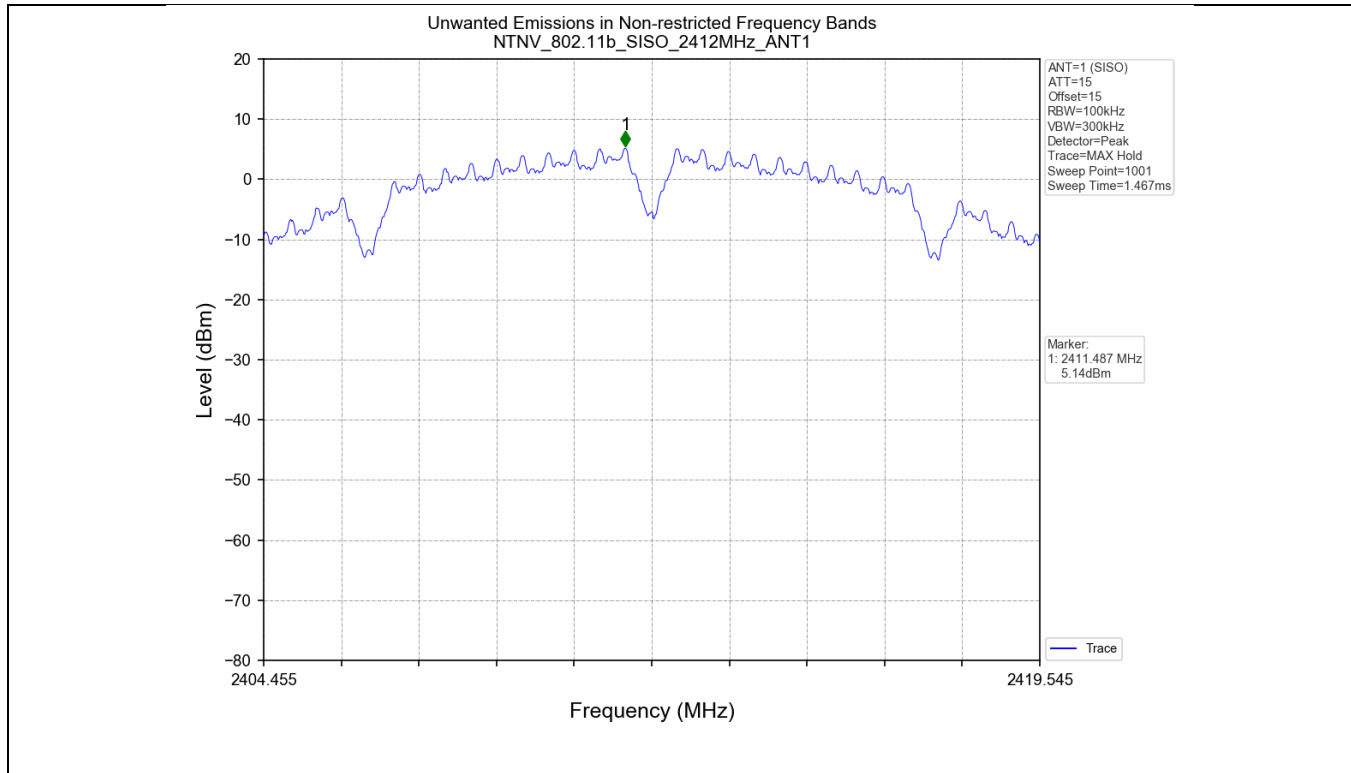
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5. Unwanted Emissions in Non-restricted Frequency Bands

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	-14.86	PASS
	2437	SISO	1	Refer to test graph	-14.86	PASS
	2462	SISO	1	Refer to test graph	-14.86	PASS
802.11g	2412	SISO	1	Refer to test graph	-22.46	PASS
	2437	SISO	1	Refer to test graph	-22.46	PASS
	2462	SISO	1	Refer to test graph	-22.46	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-21.40	PASS
	2437	SISO	1	Refer to test graph	-21.40	PASS
	2462	SISO	1	Refer to test graph	-21.40	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-26.34	PASS
	2437	SISO	1	Refer to test graph	-26.34	PASS
	2452	SISO	1	Refer to test graph	-26.34	PASS

5.2 Test Graph

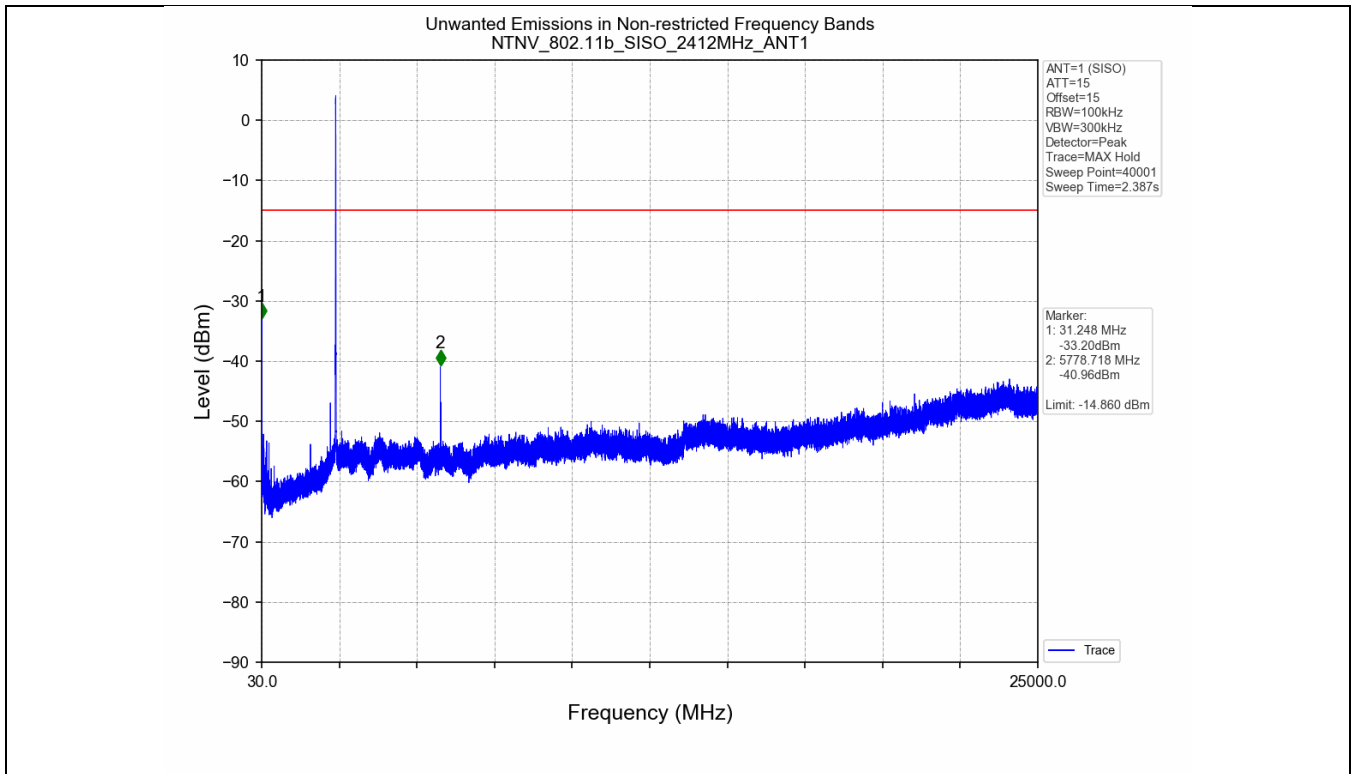
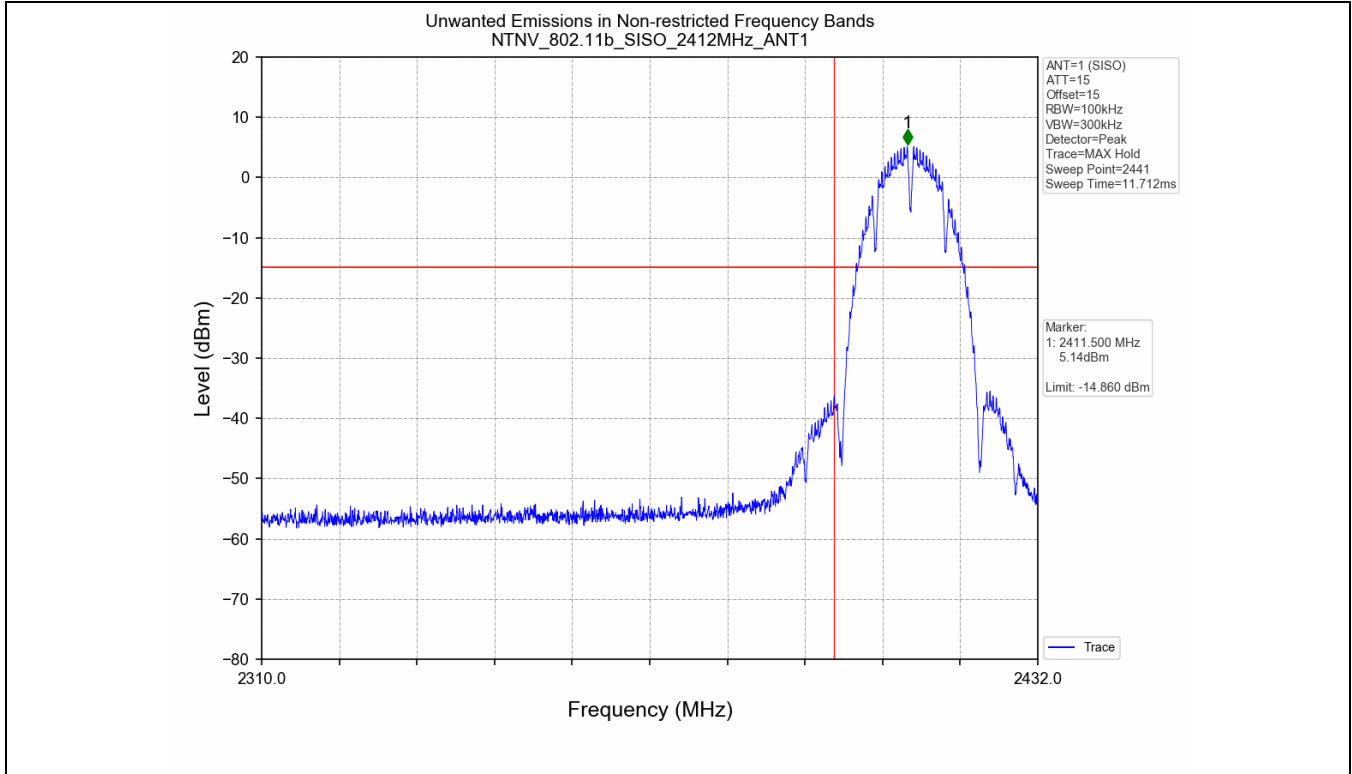


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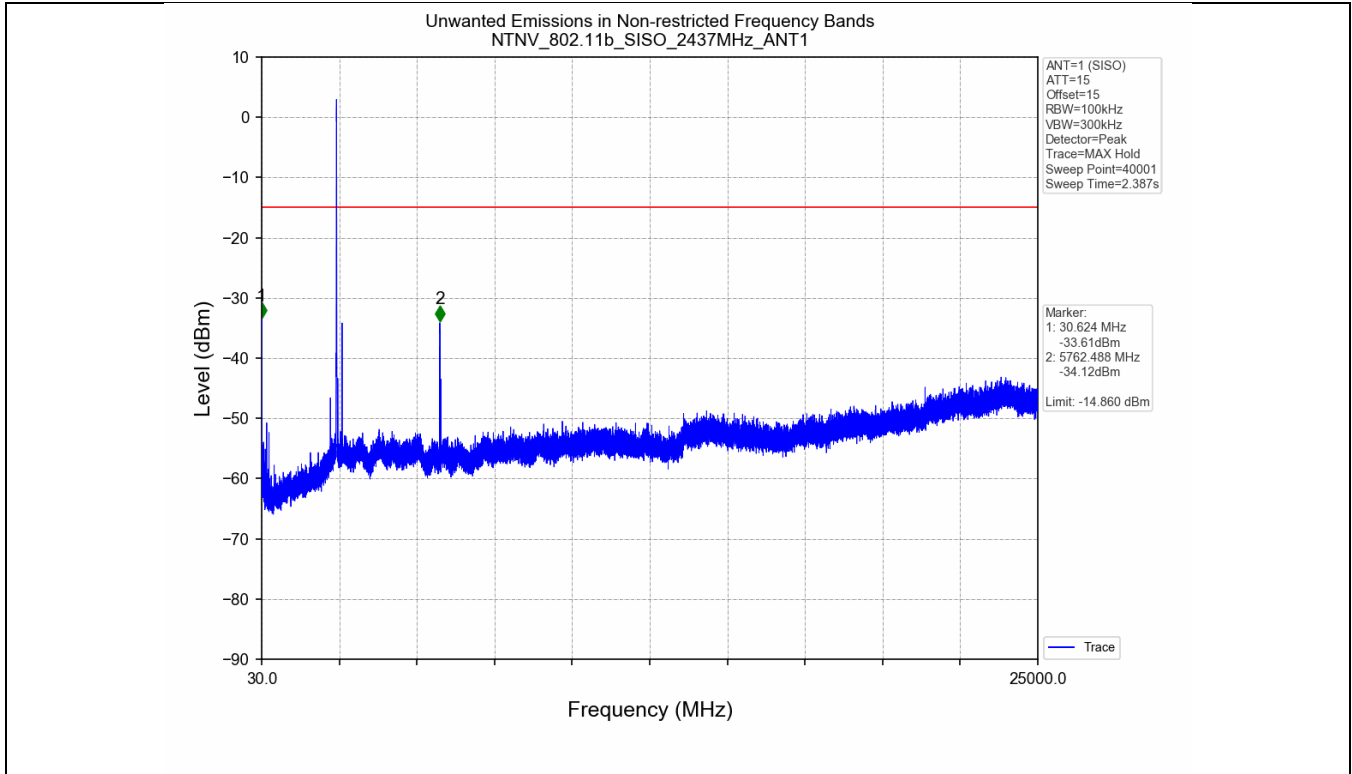


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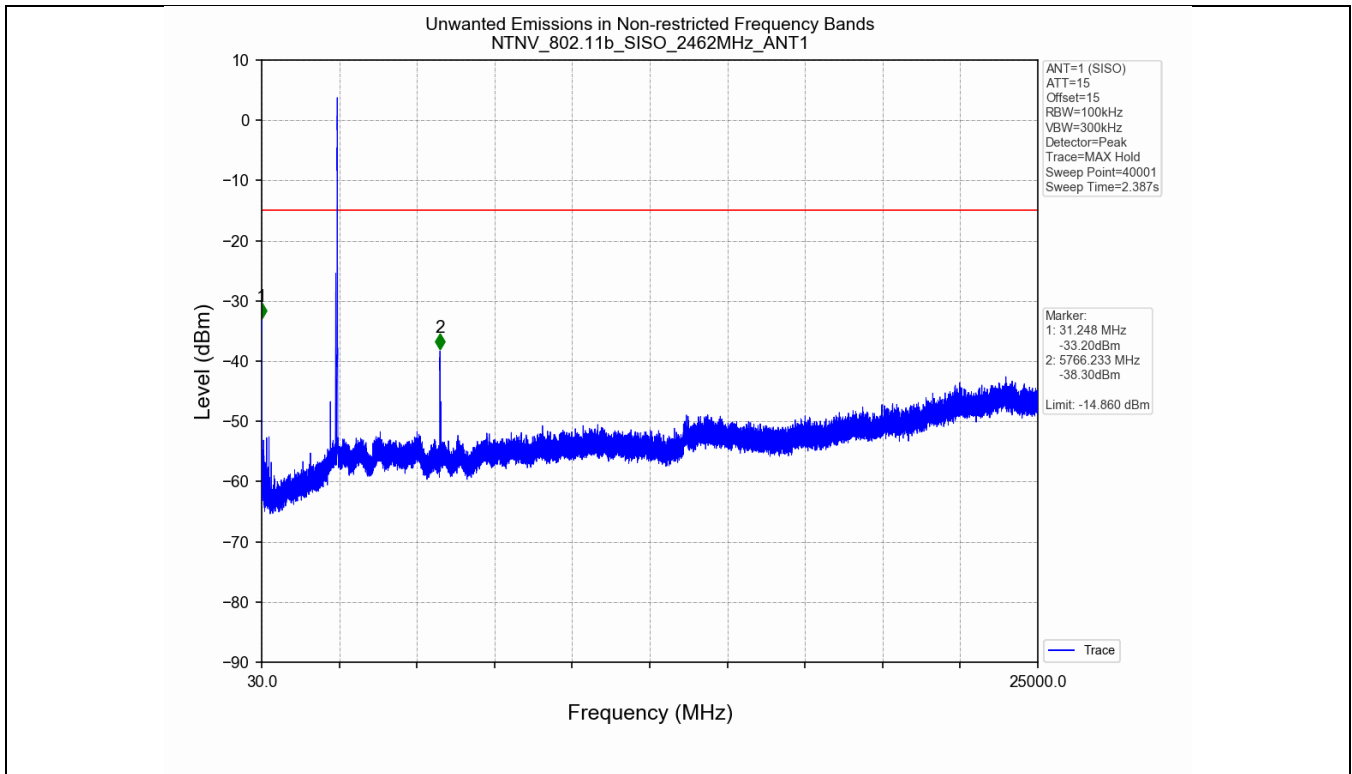
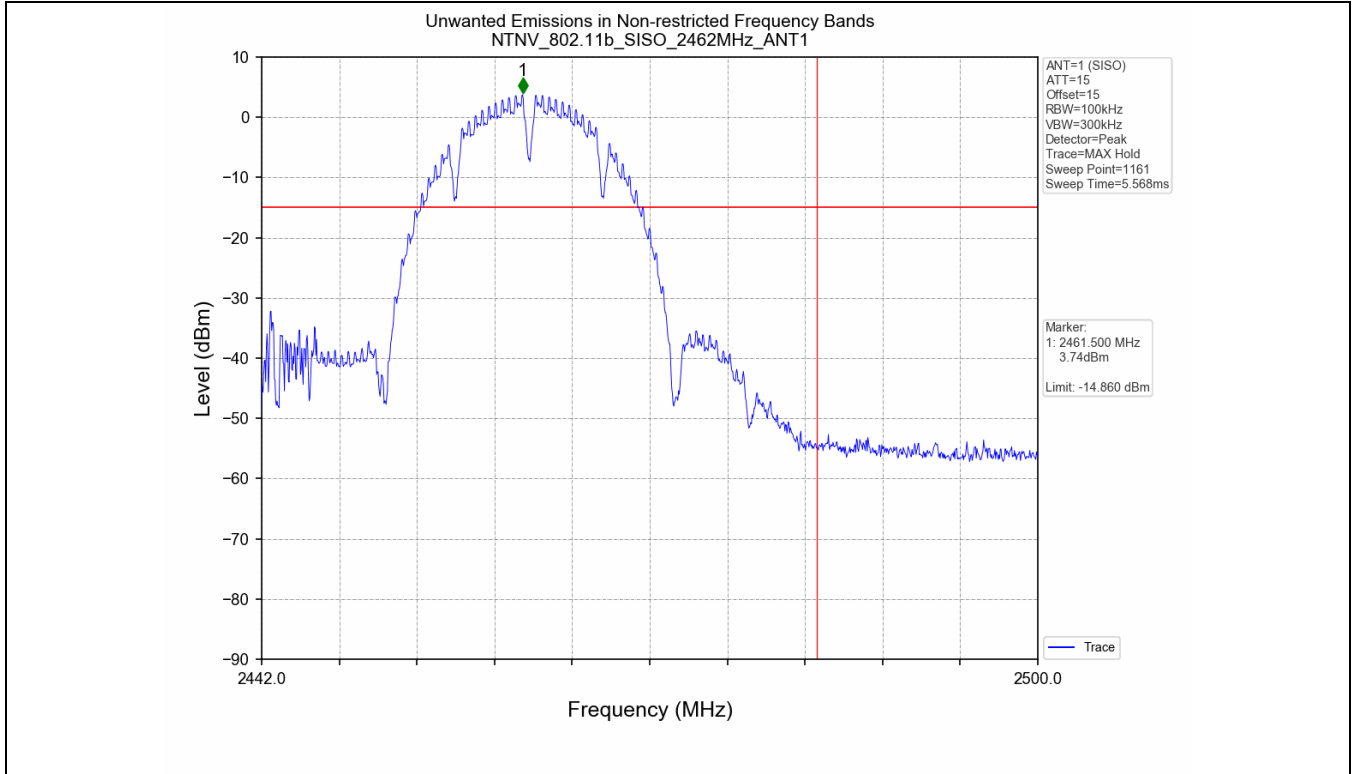


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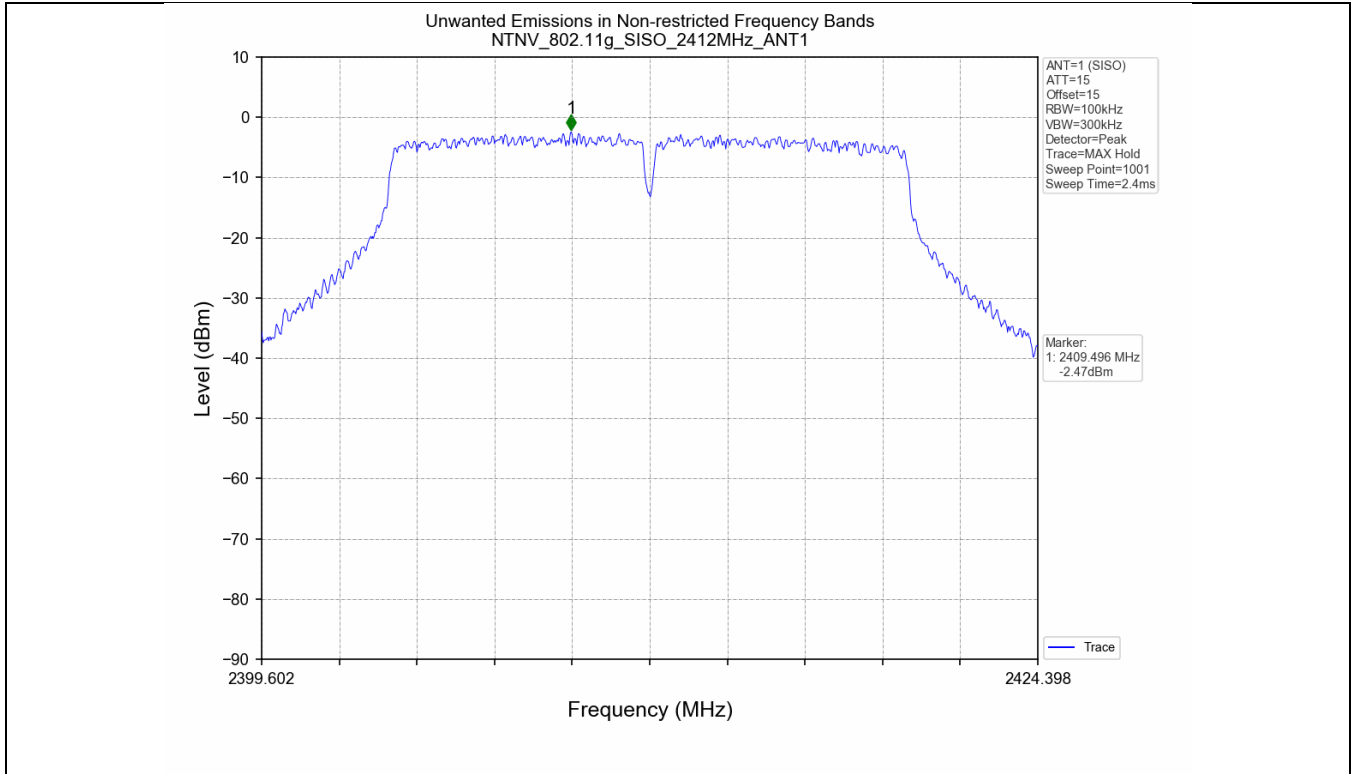


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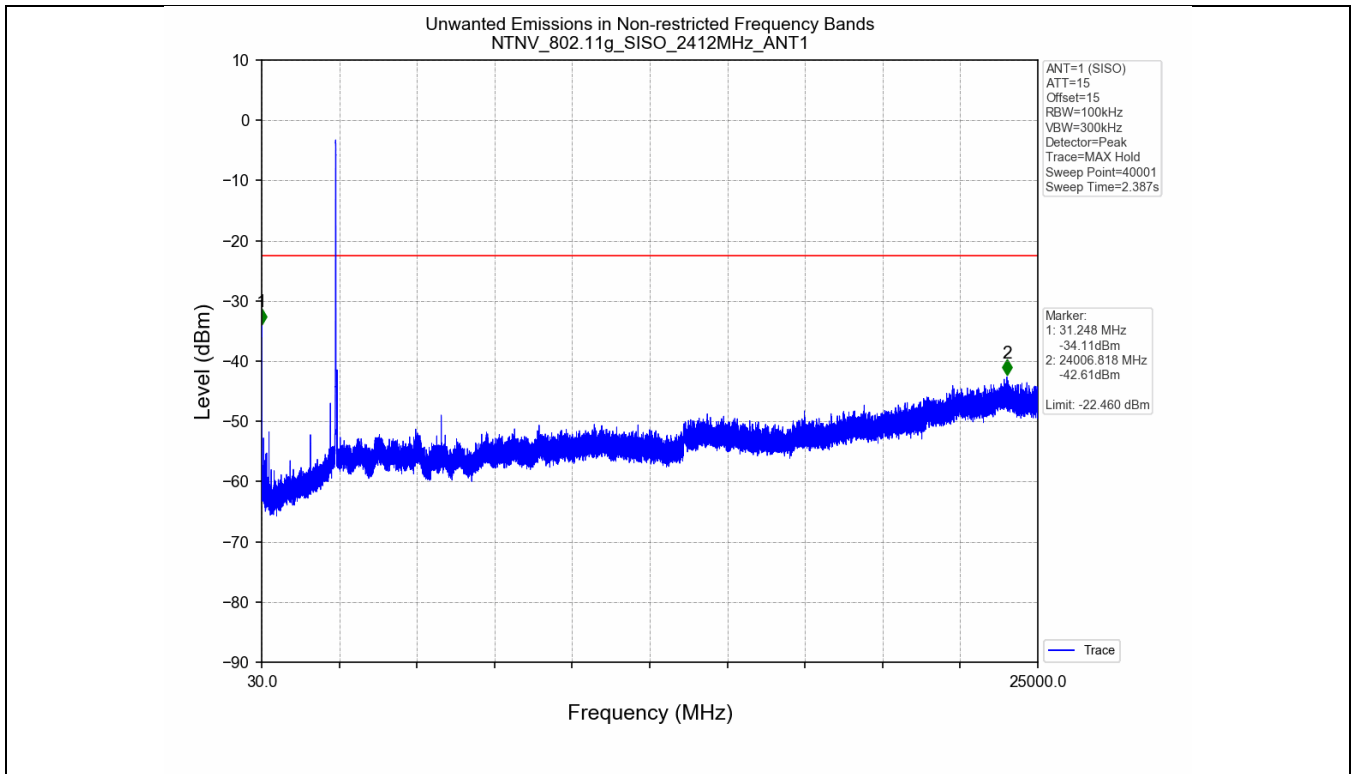
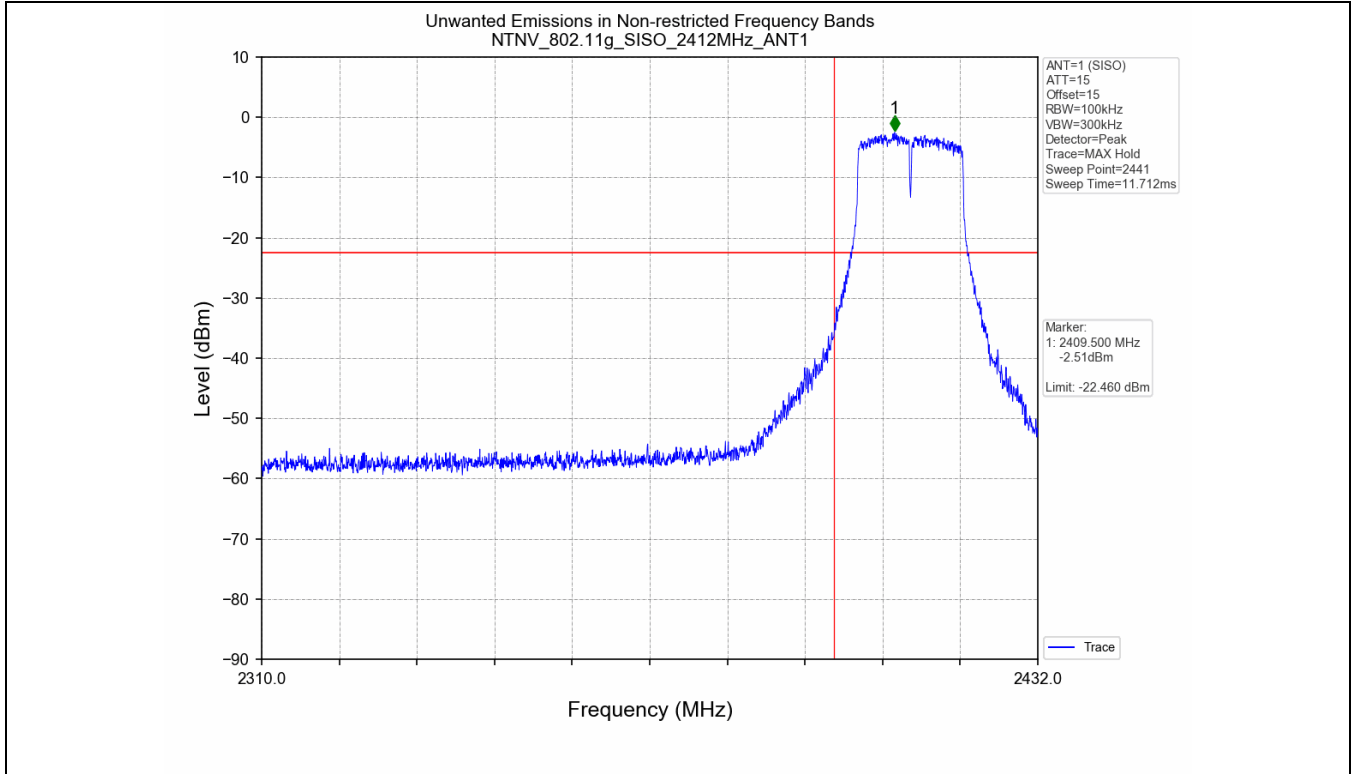
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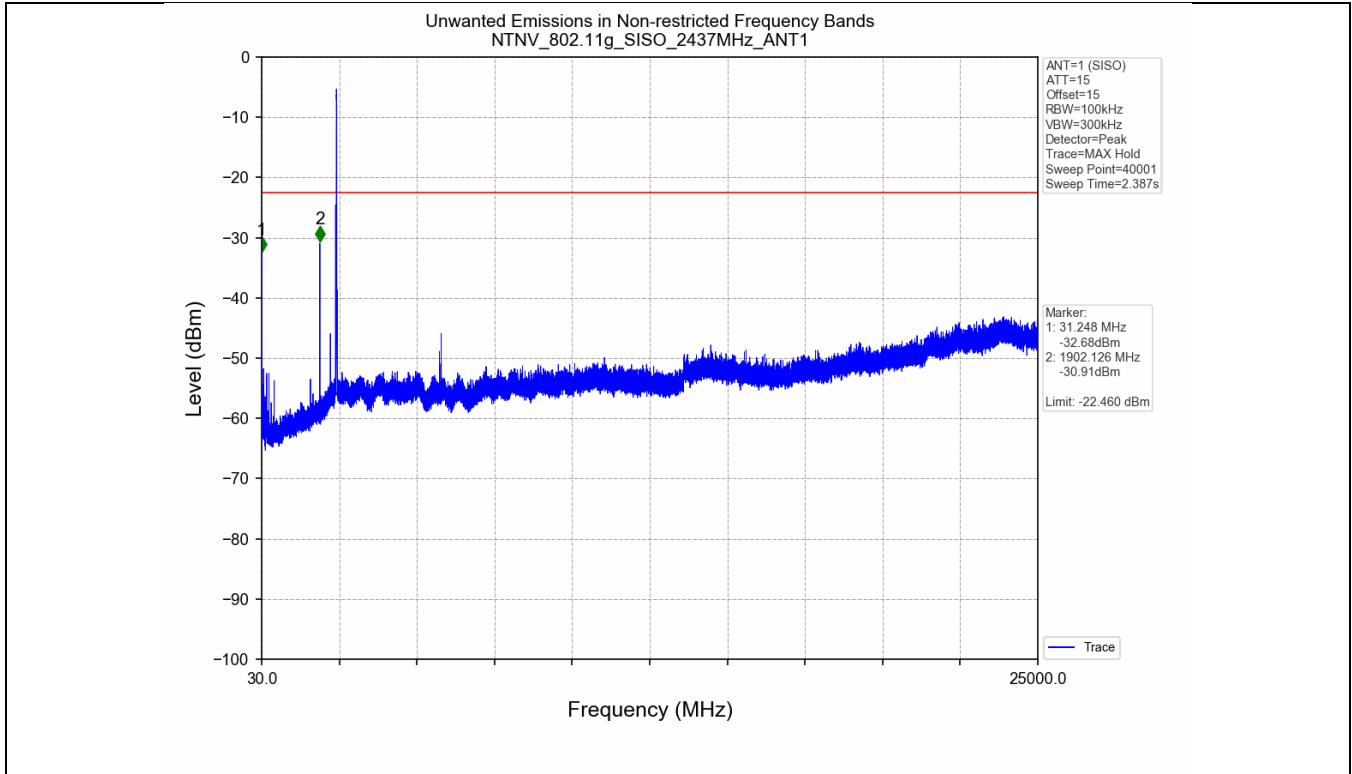
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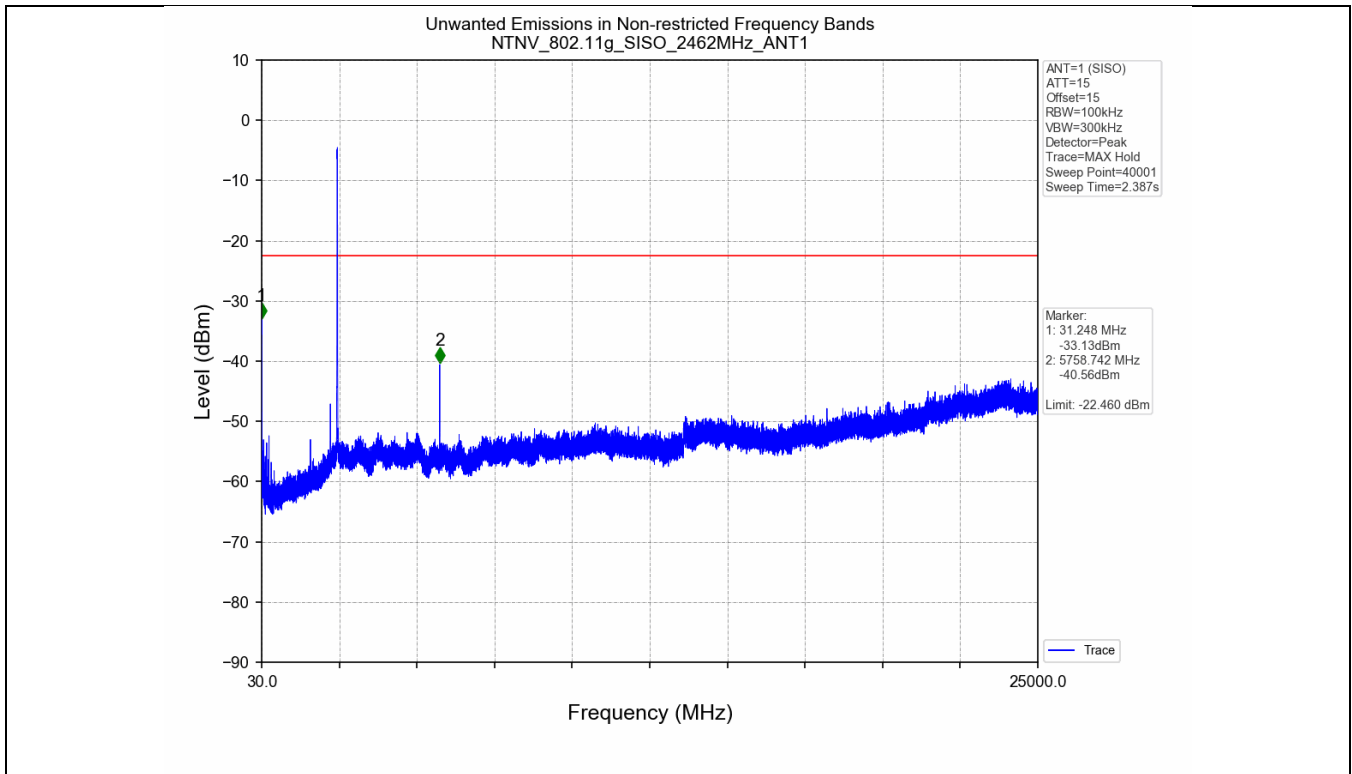
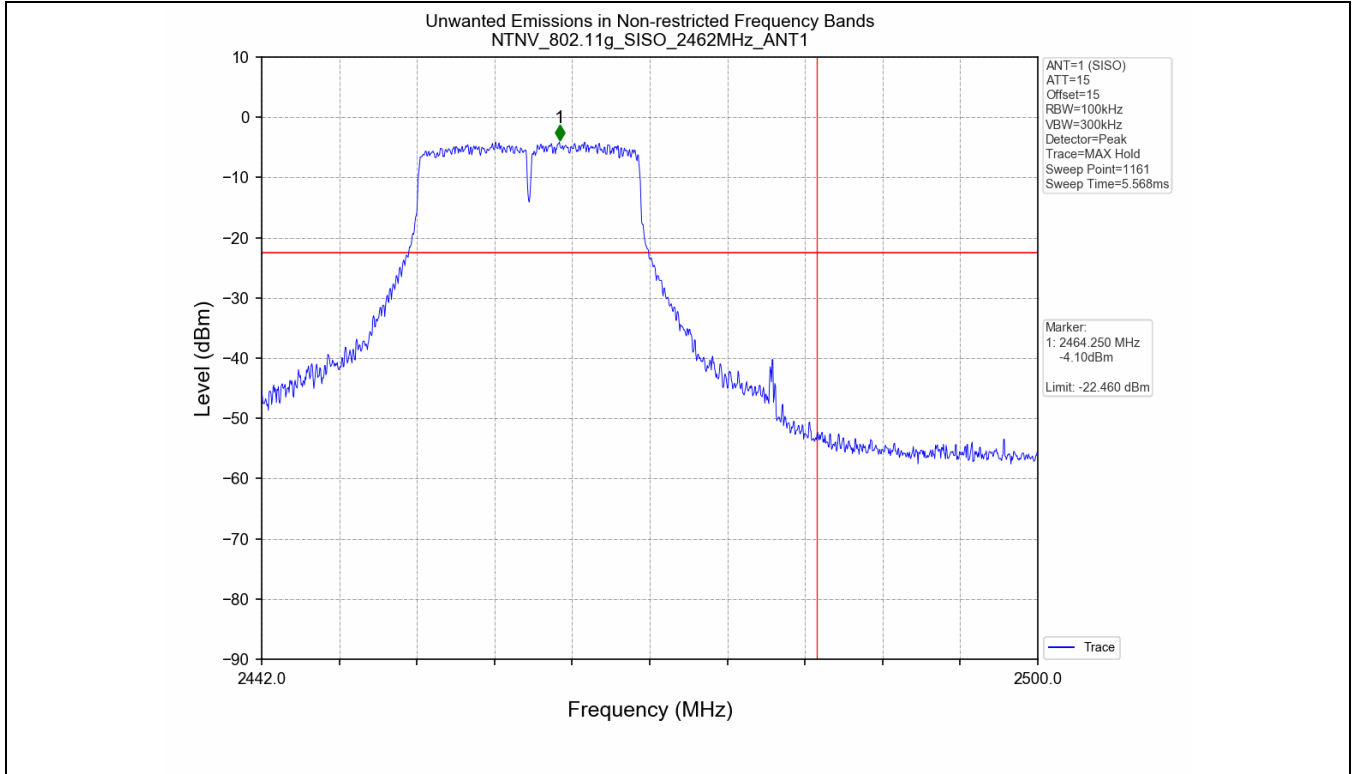


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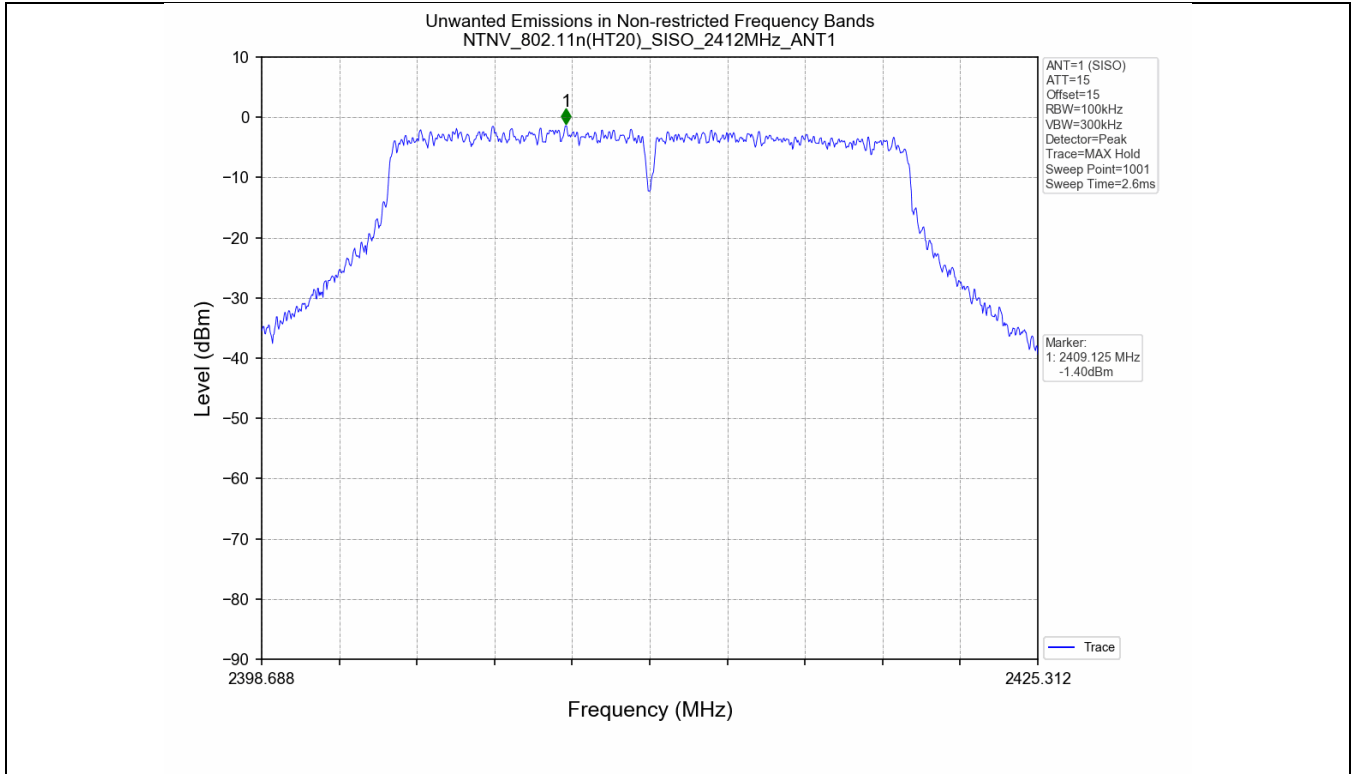


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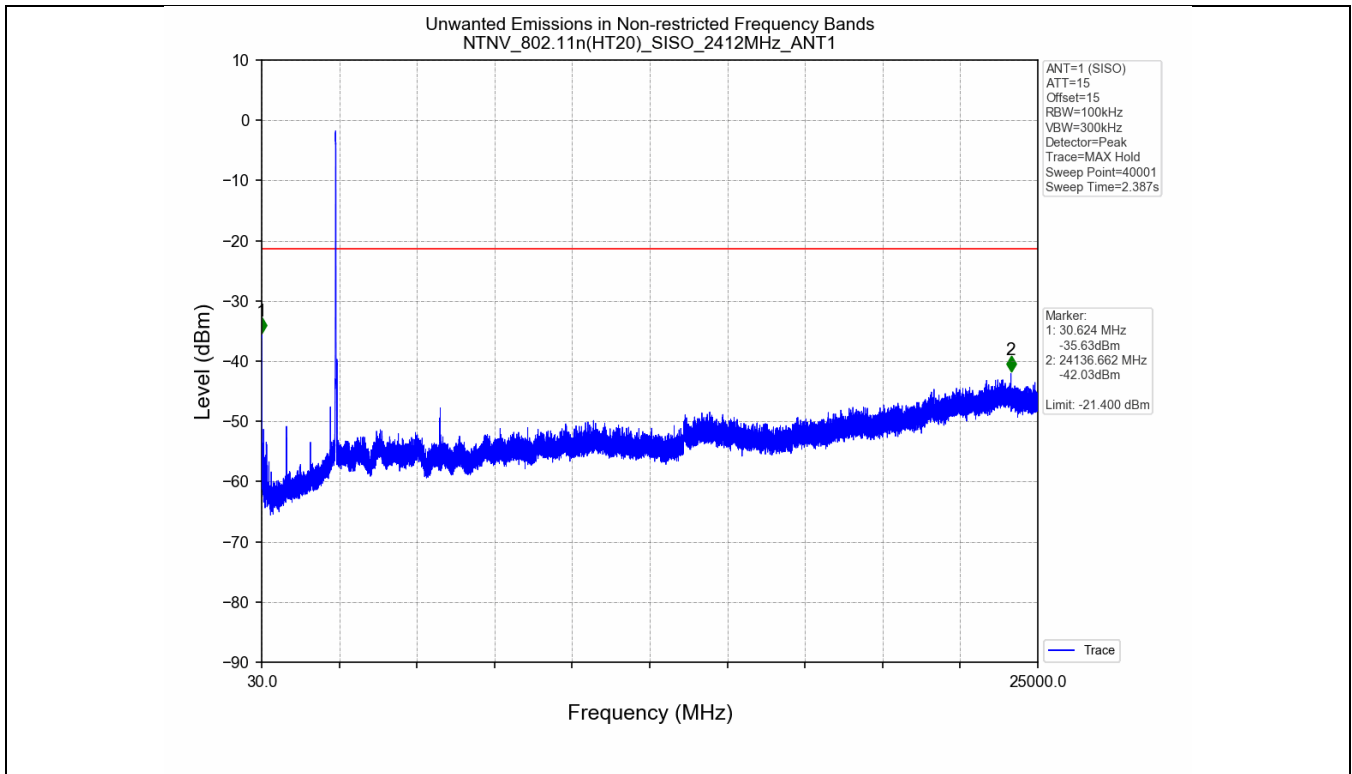
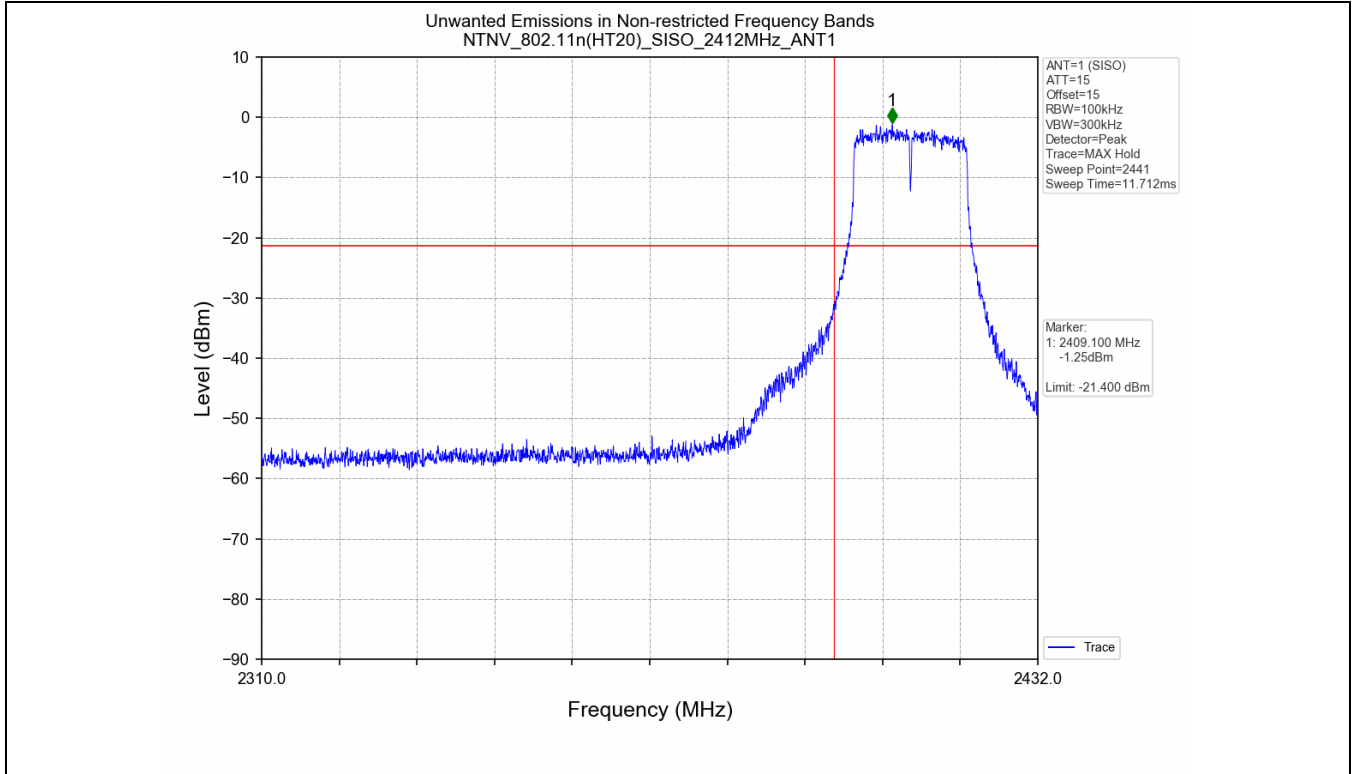
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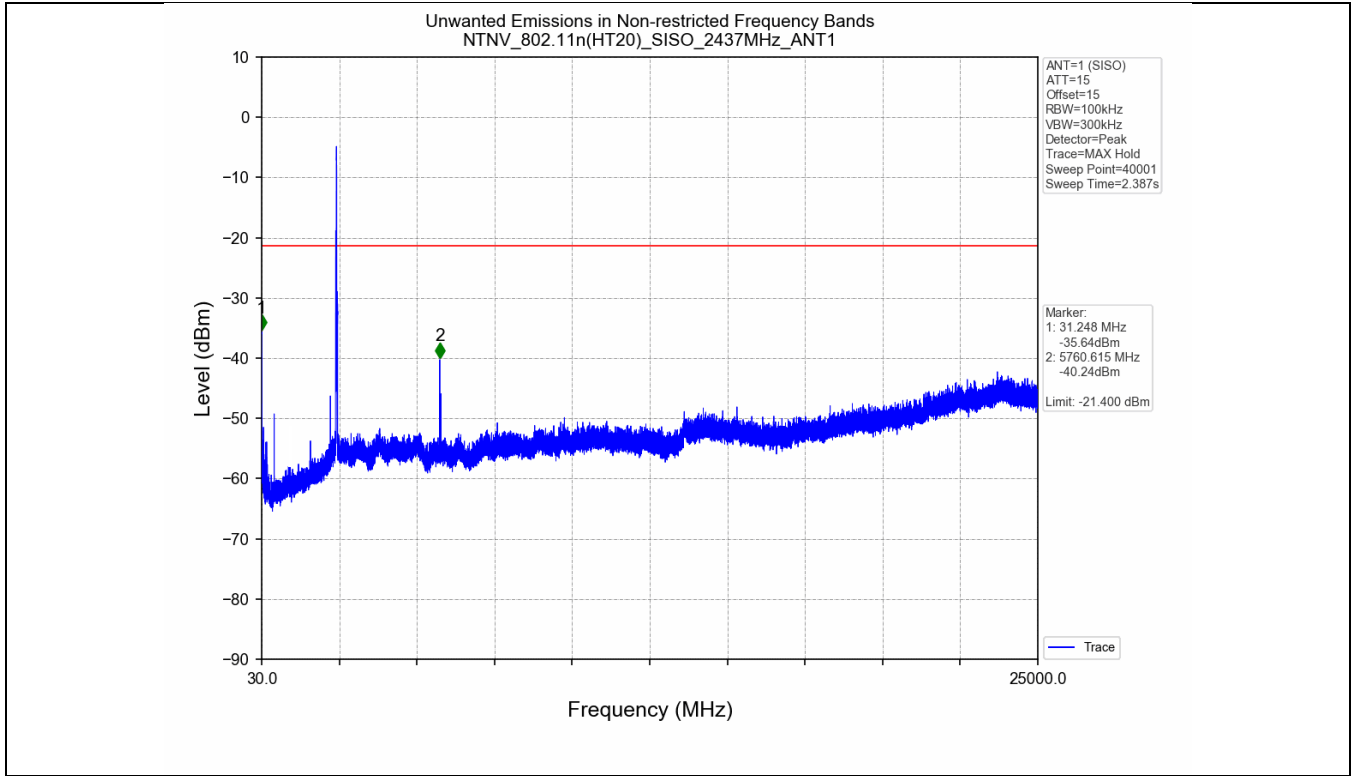
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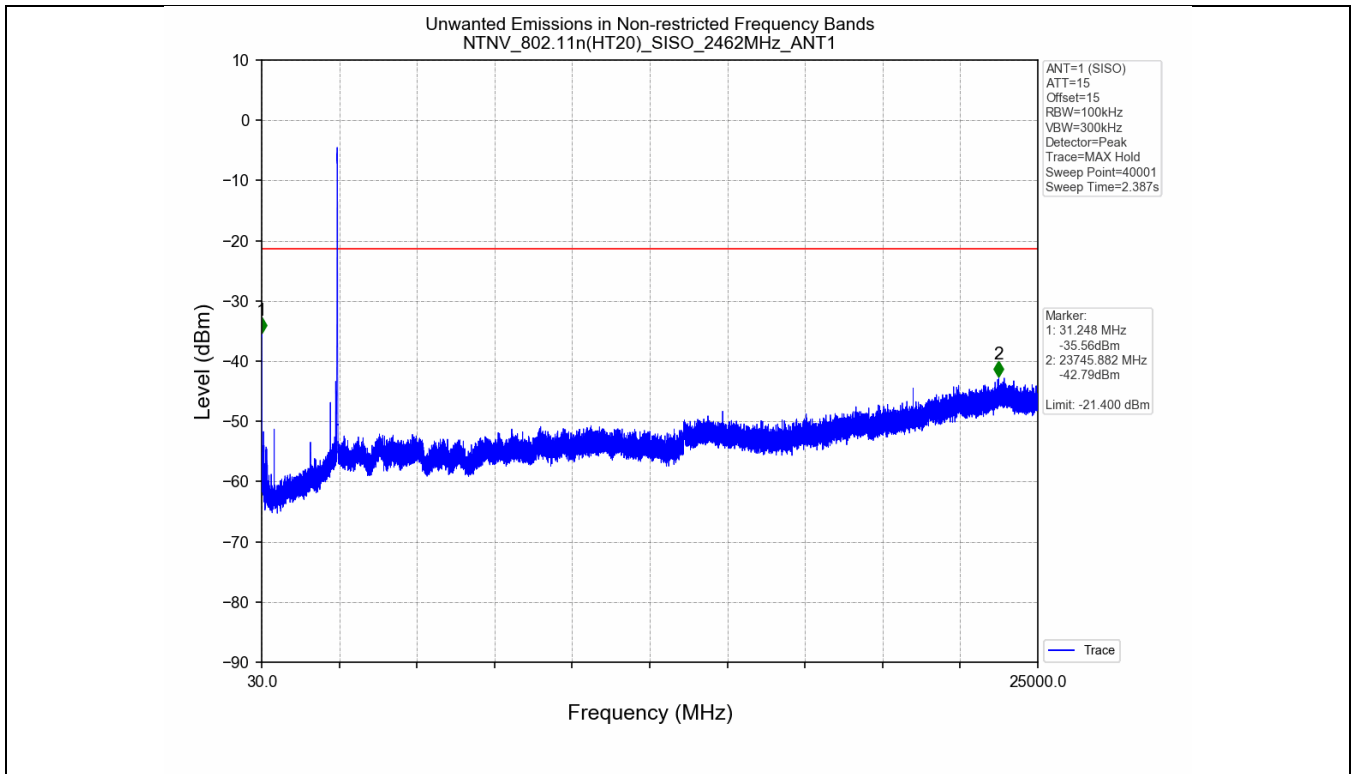
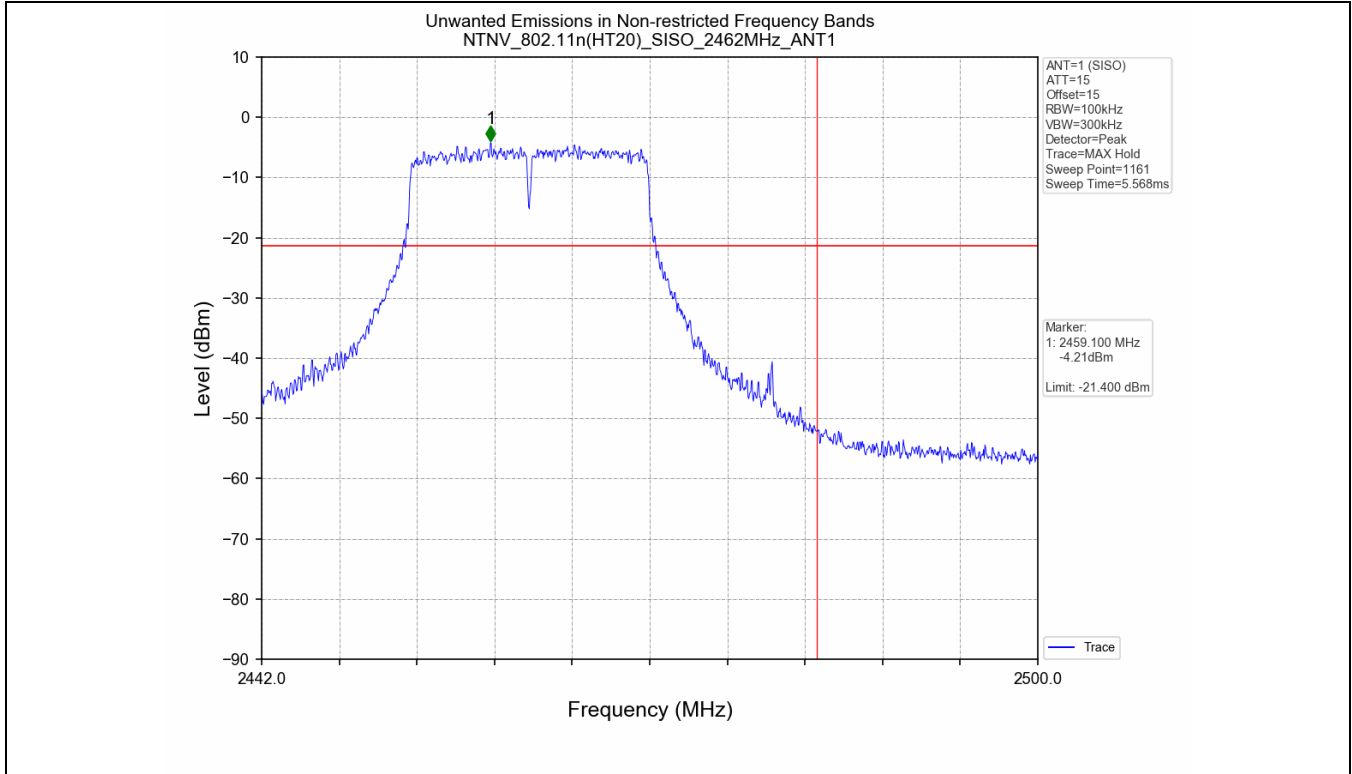


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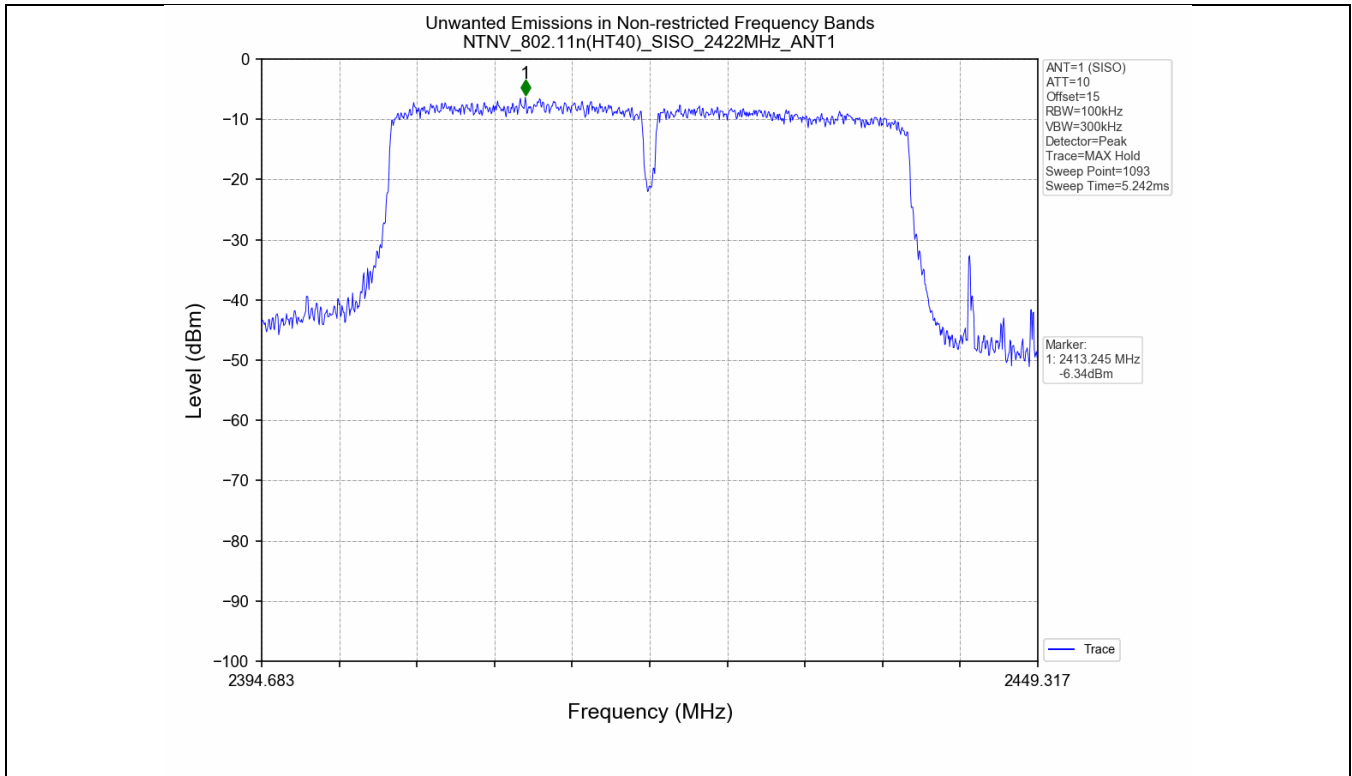


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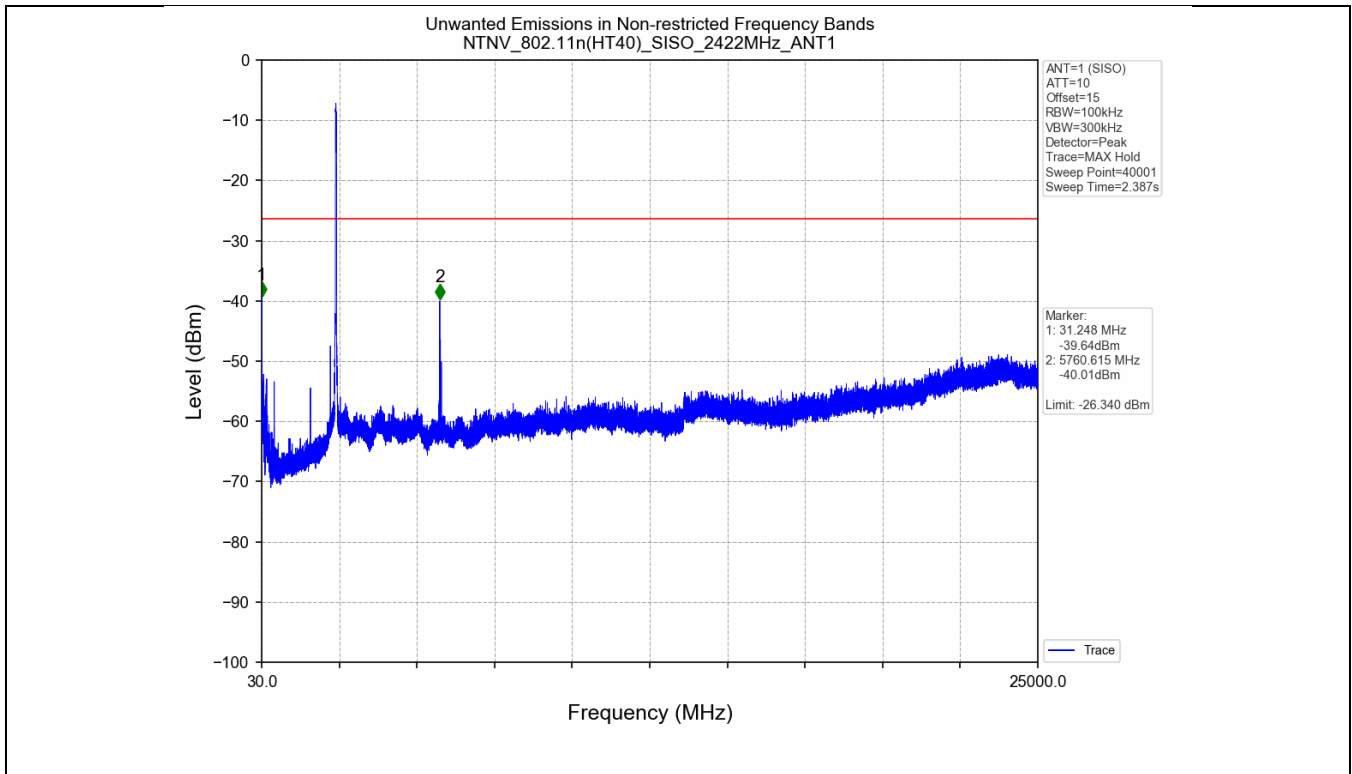
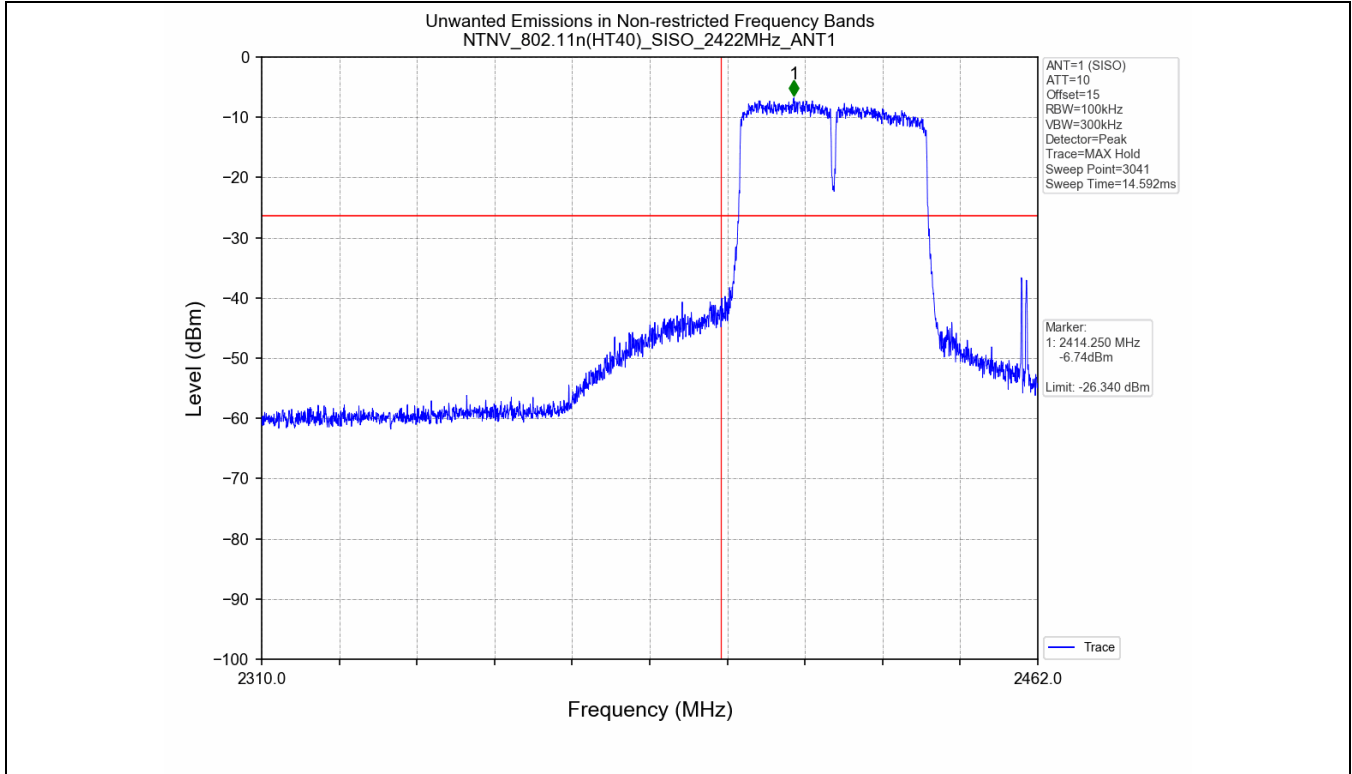


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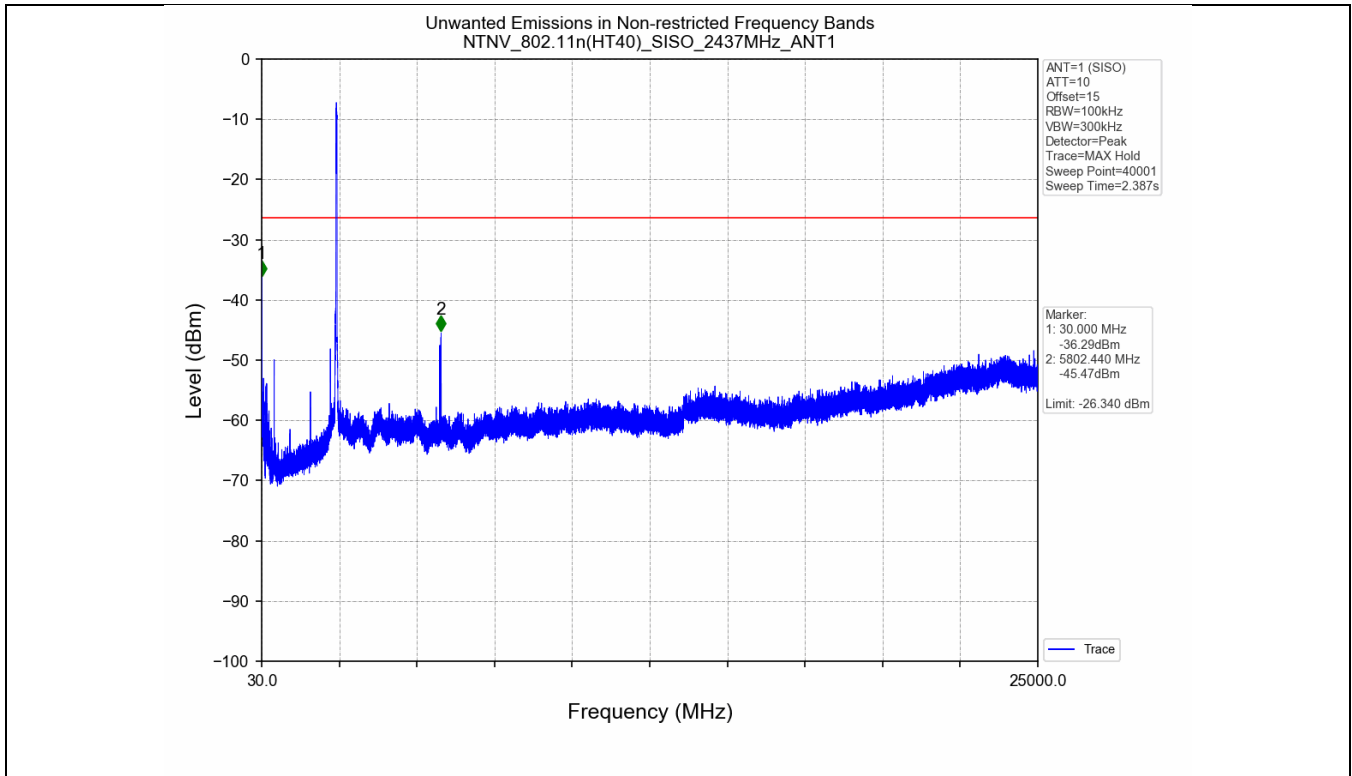
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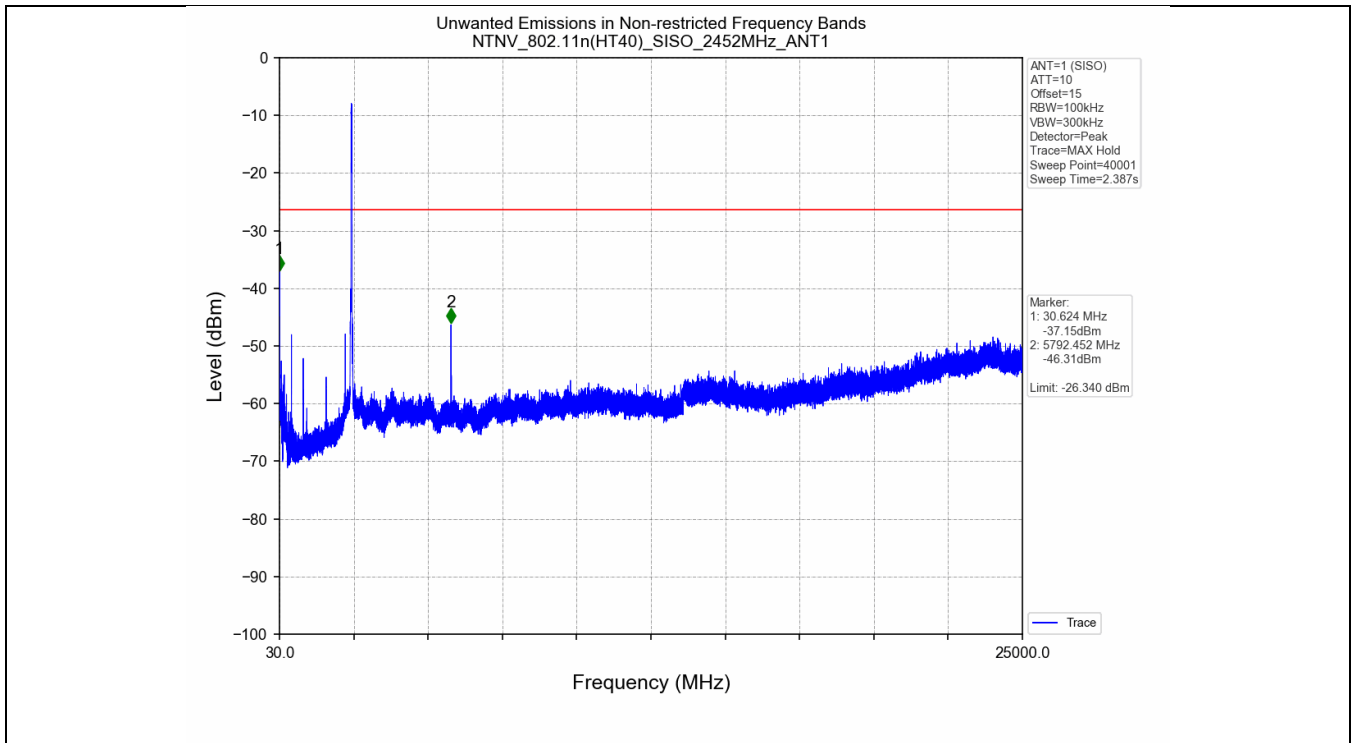
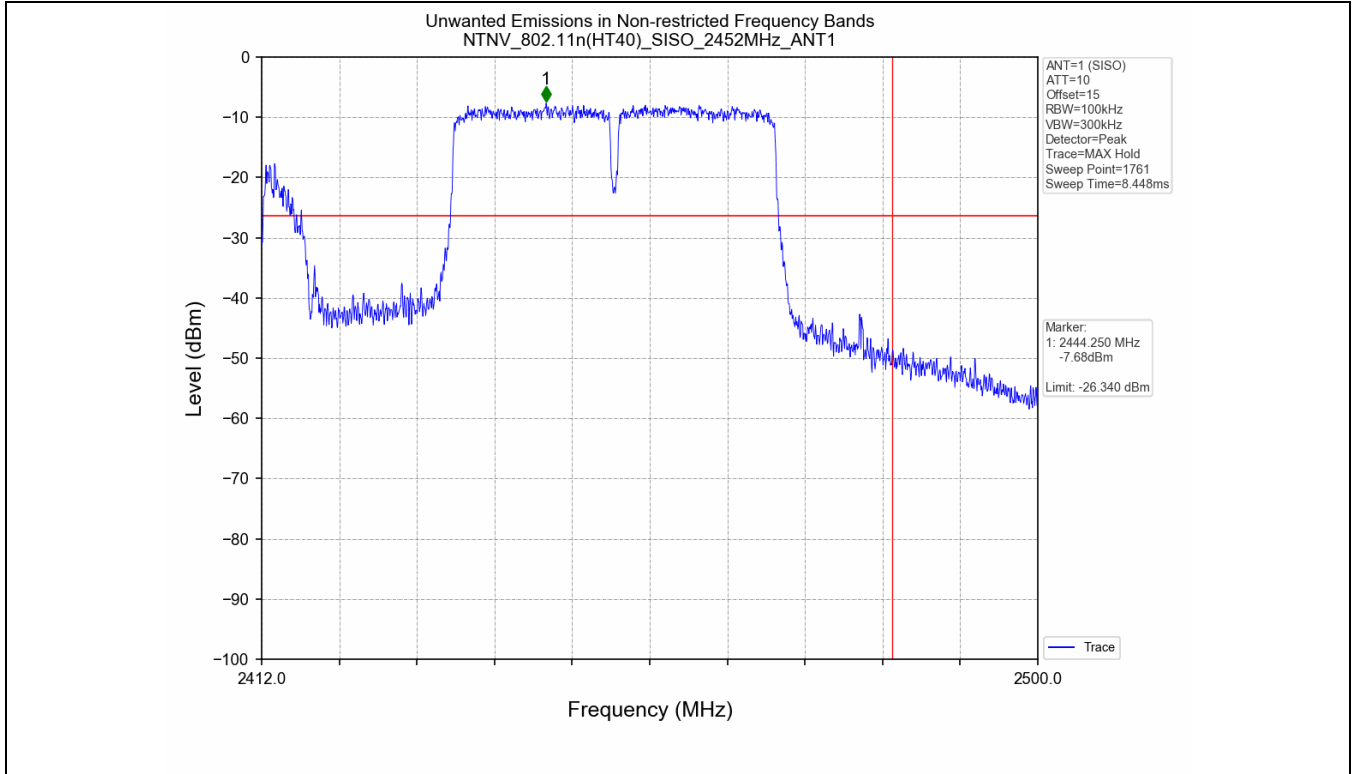


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