

Appendix A for SHEM210200133901

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

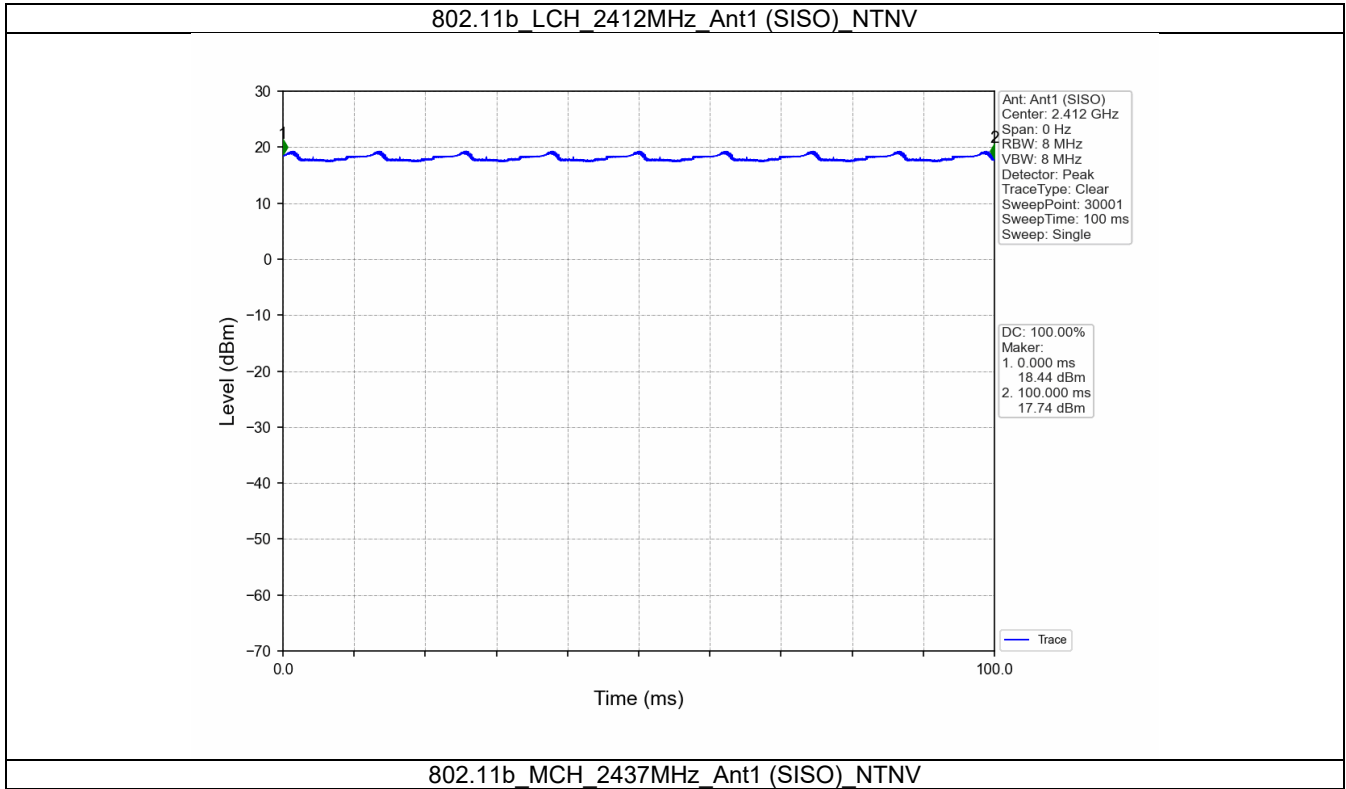
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



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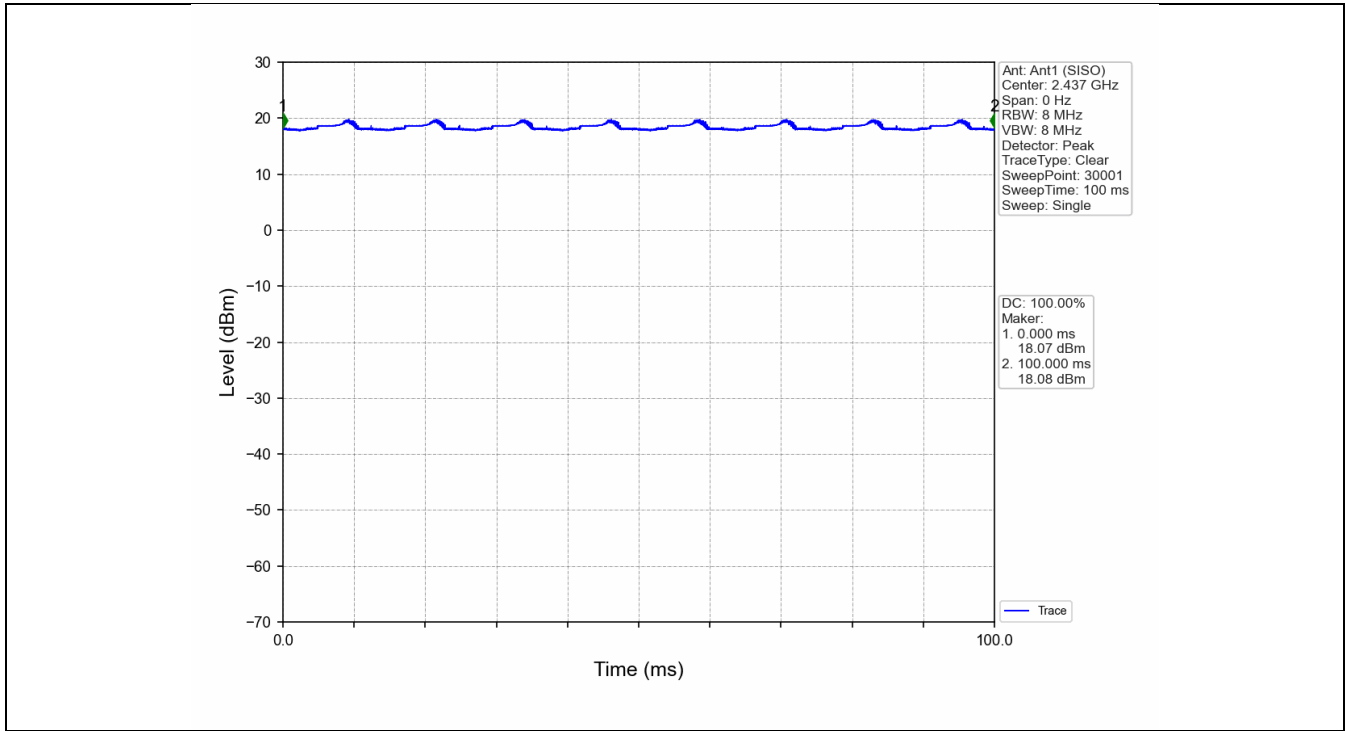
1.1.2 Test Graph



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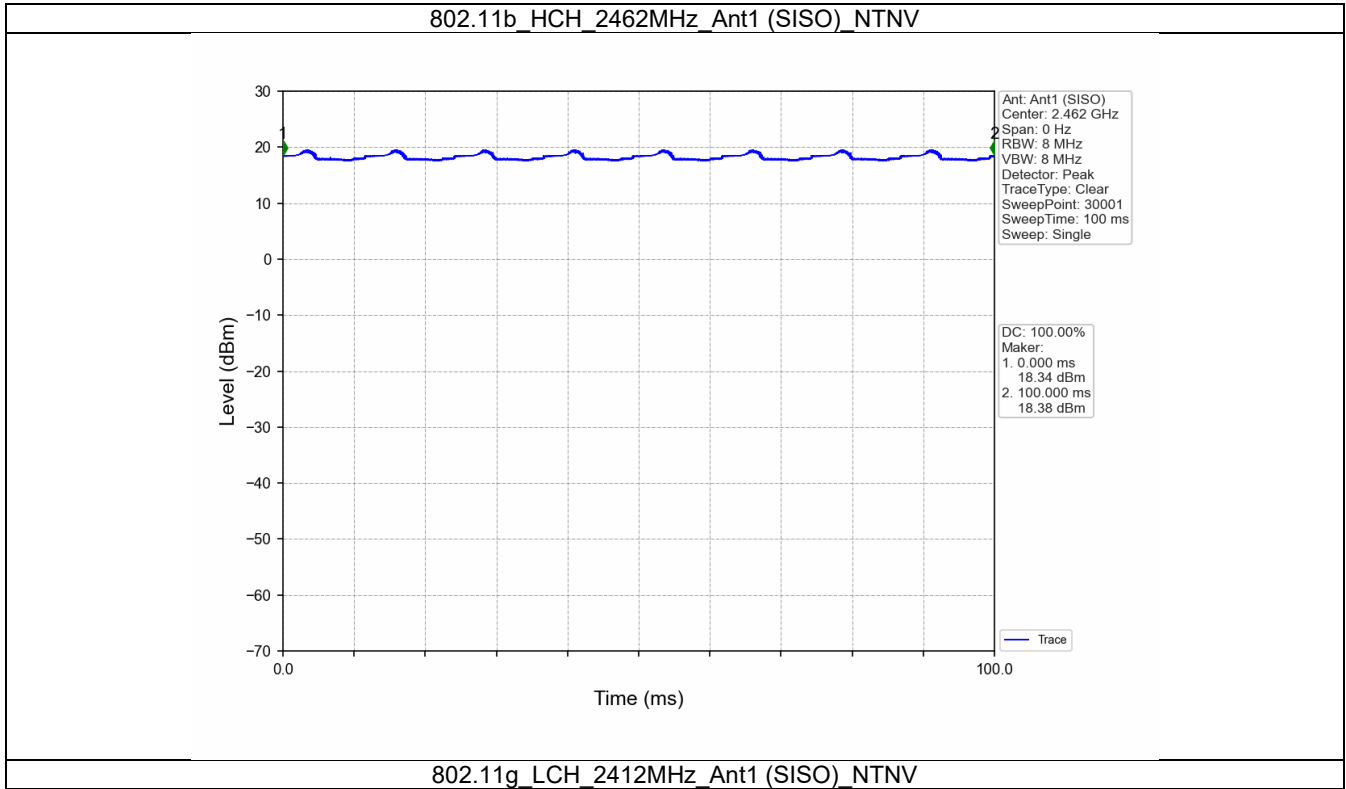
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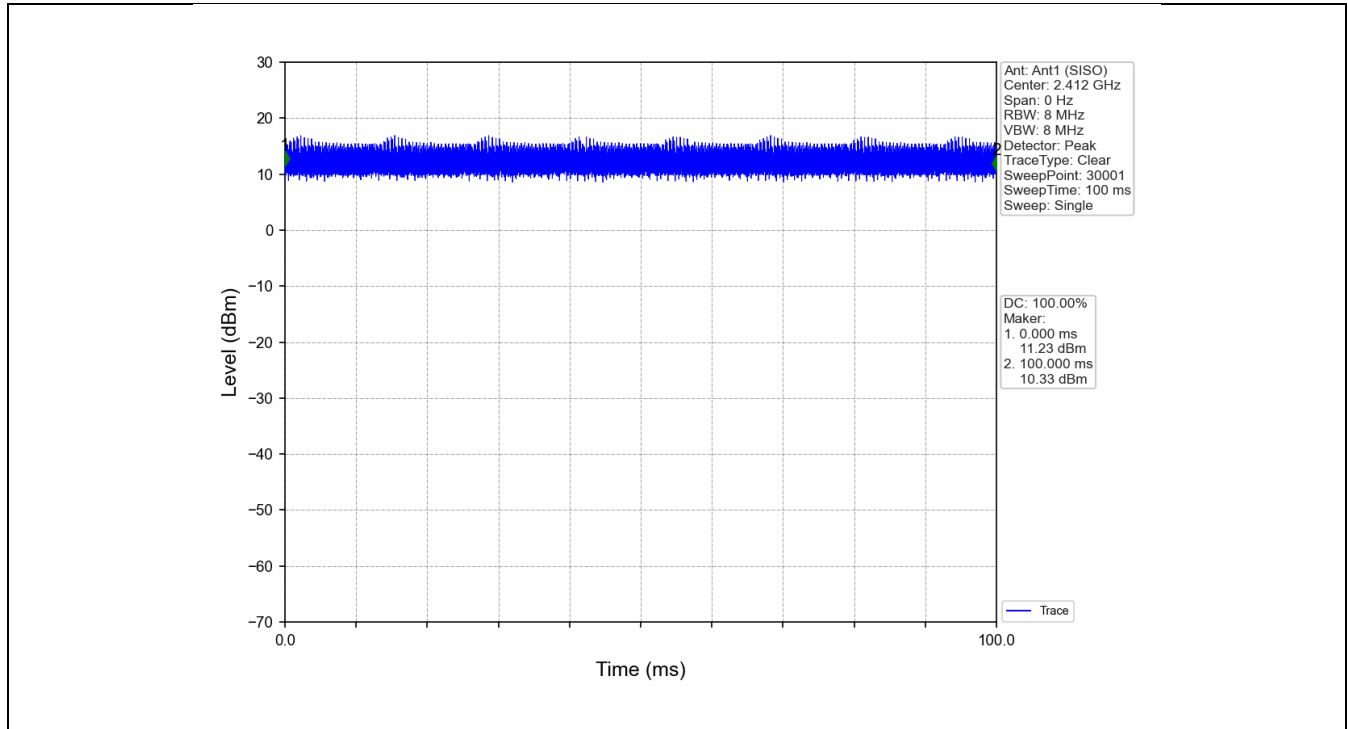
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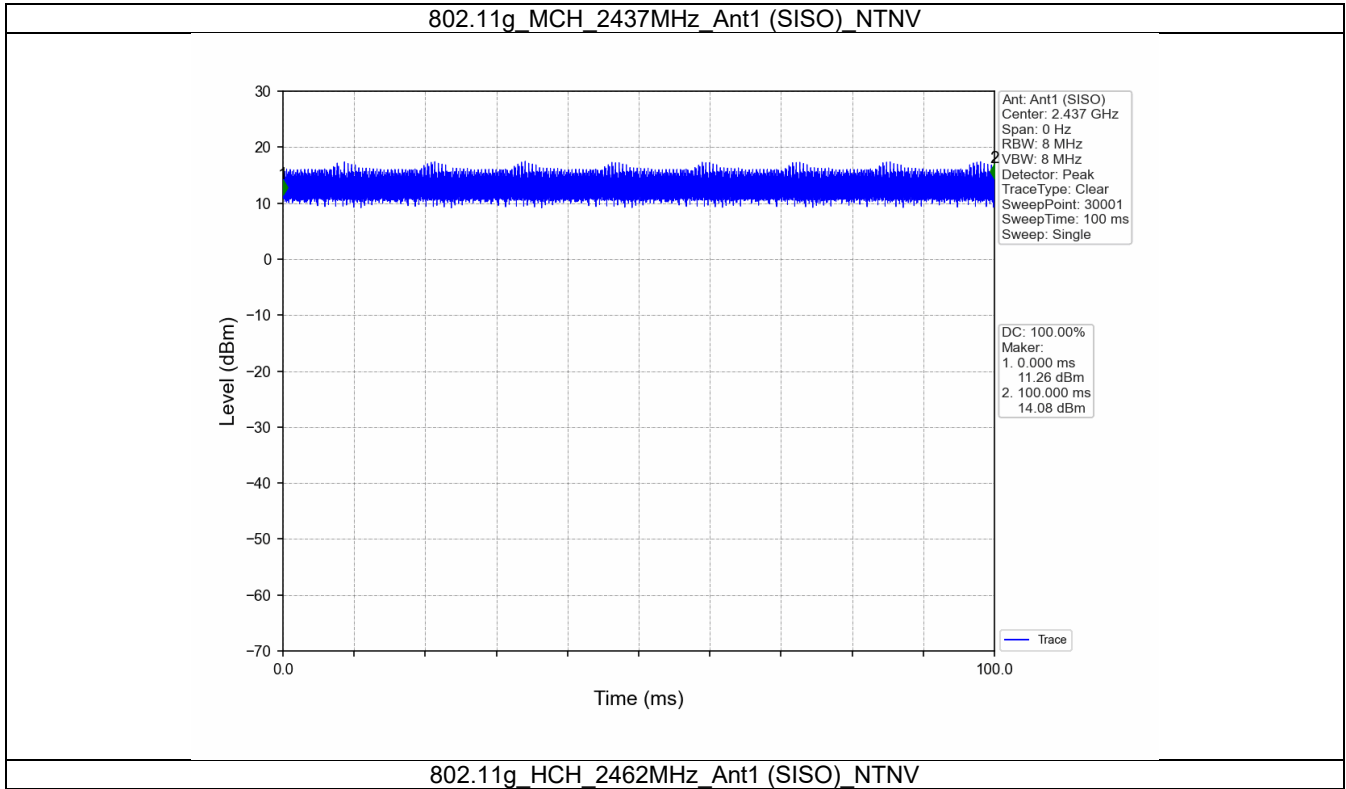
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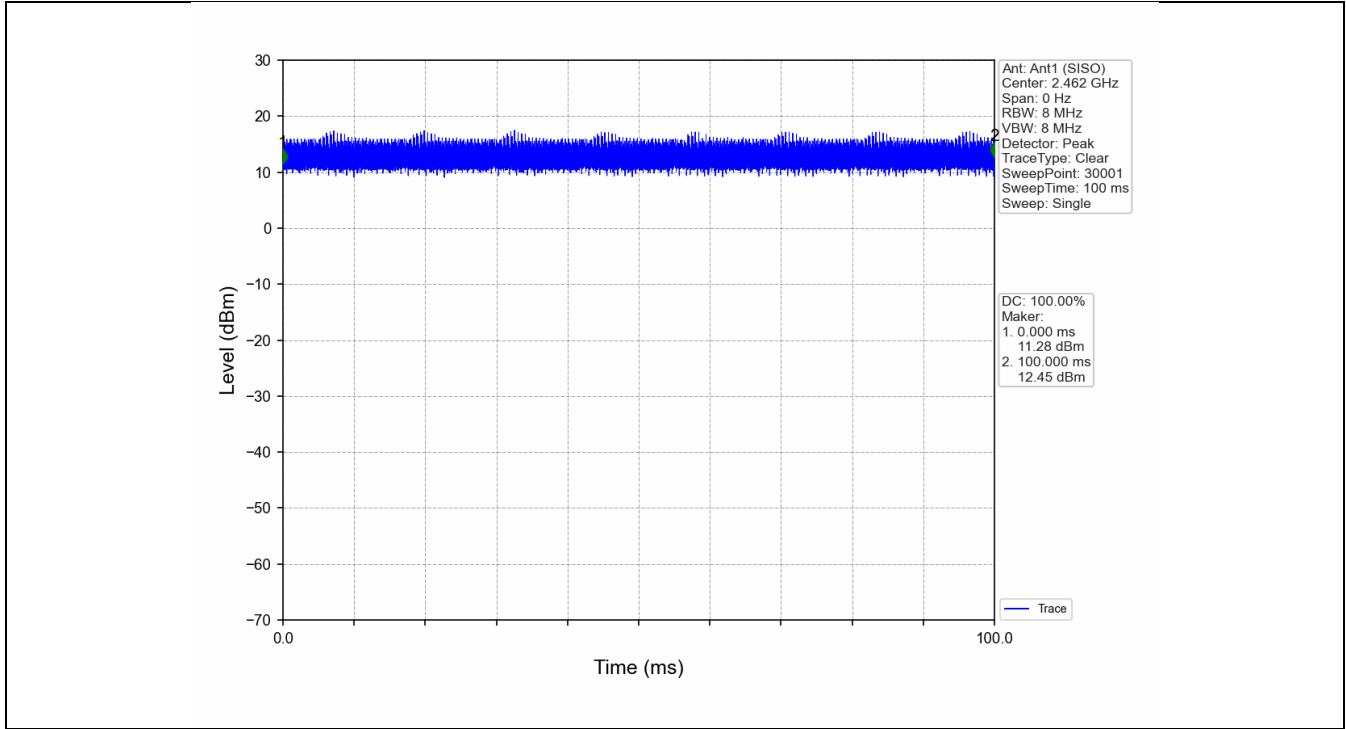
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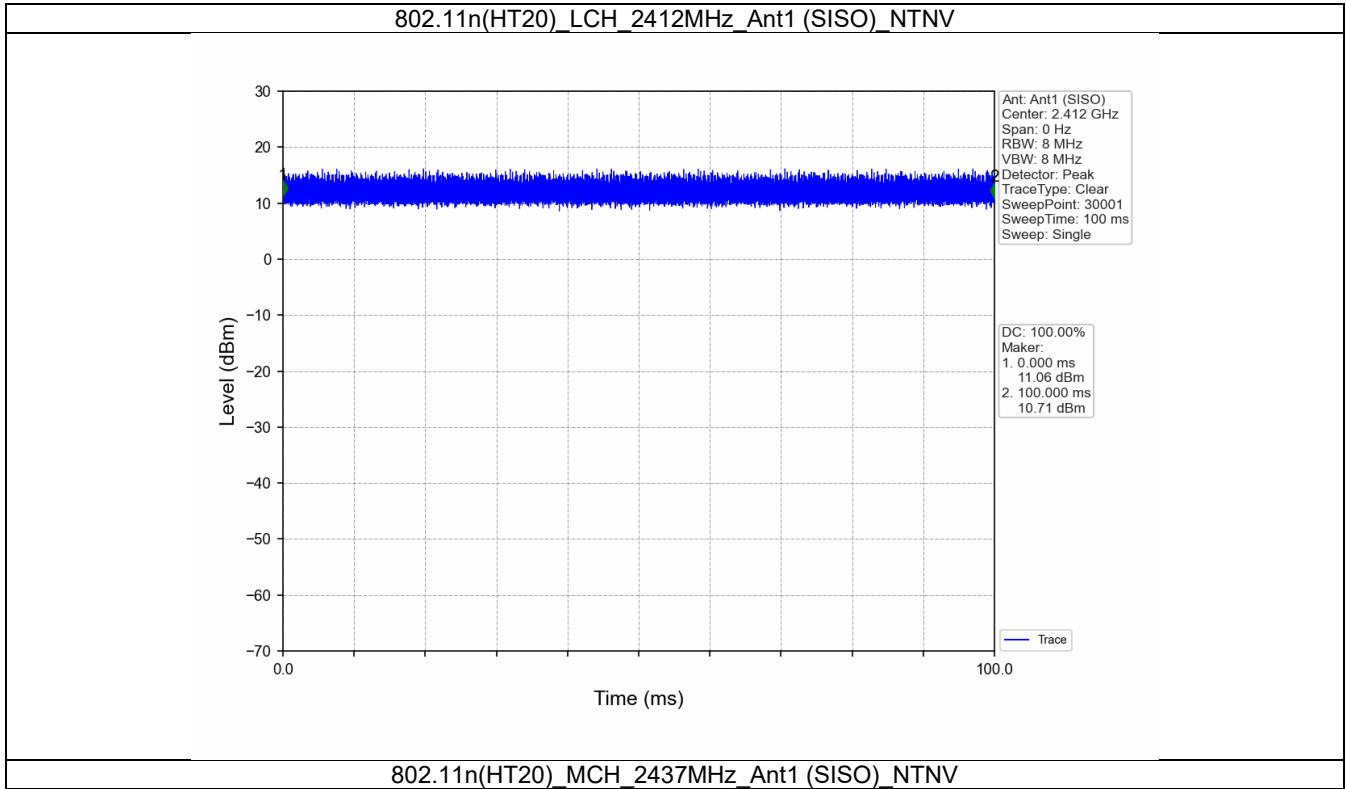
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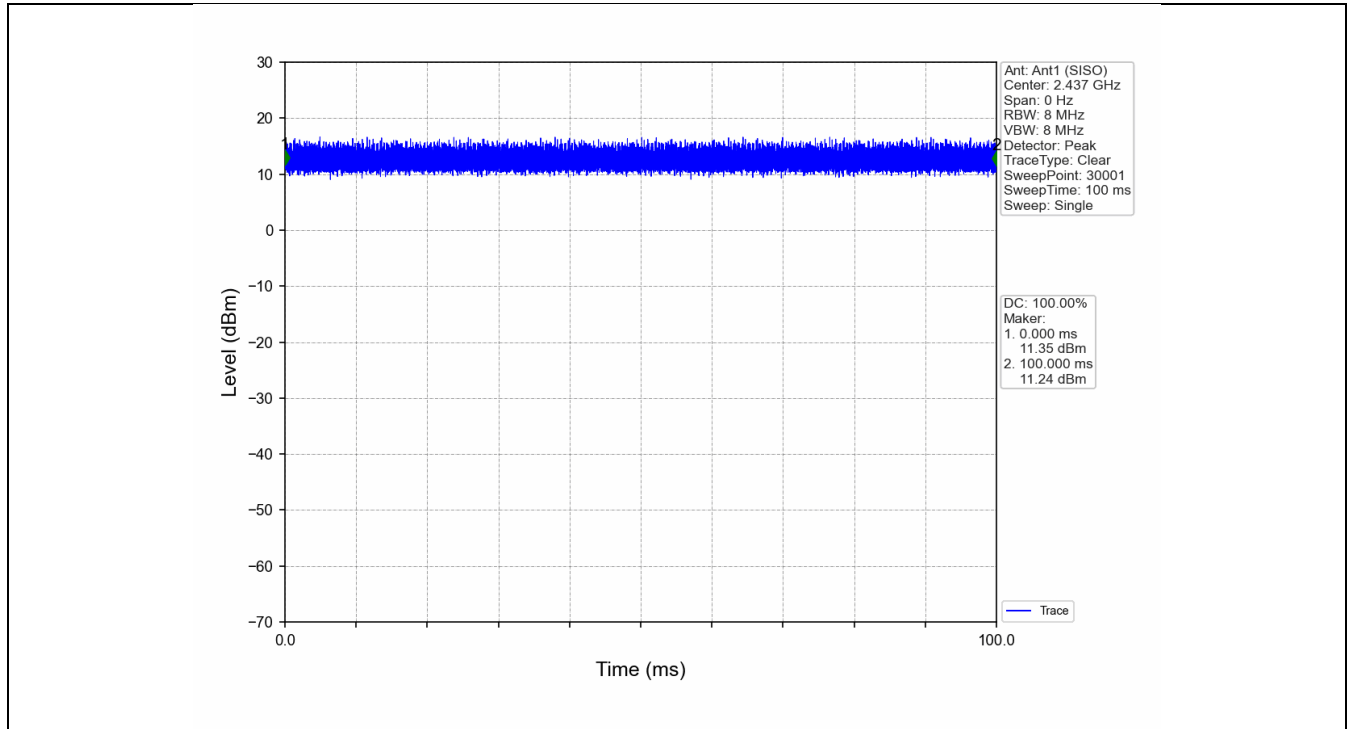
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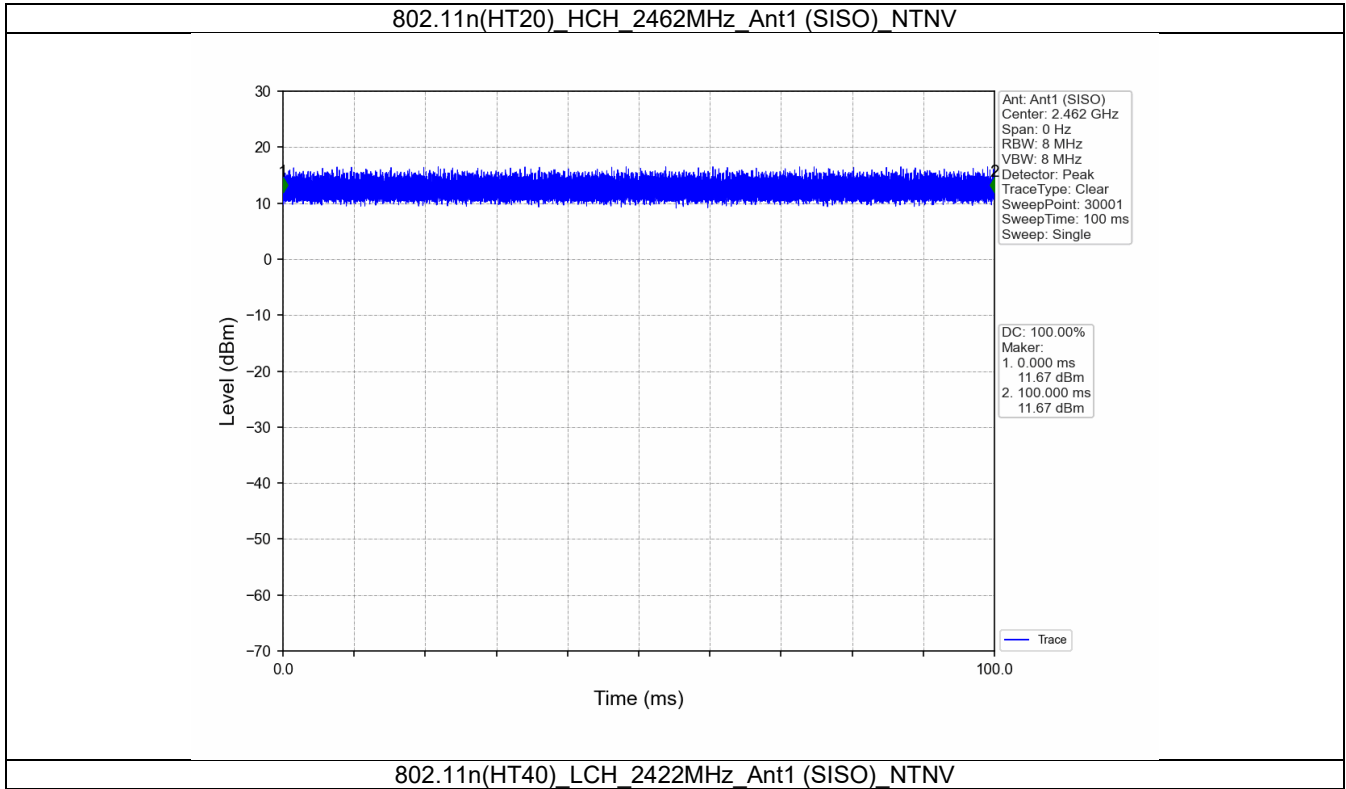
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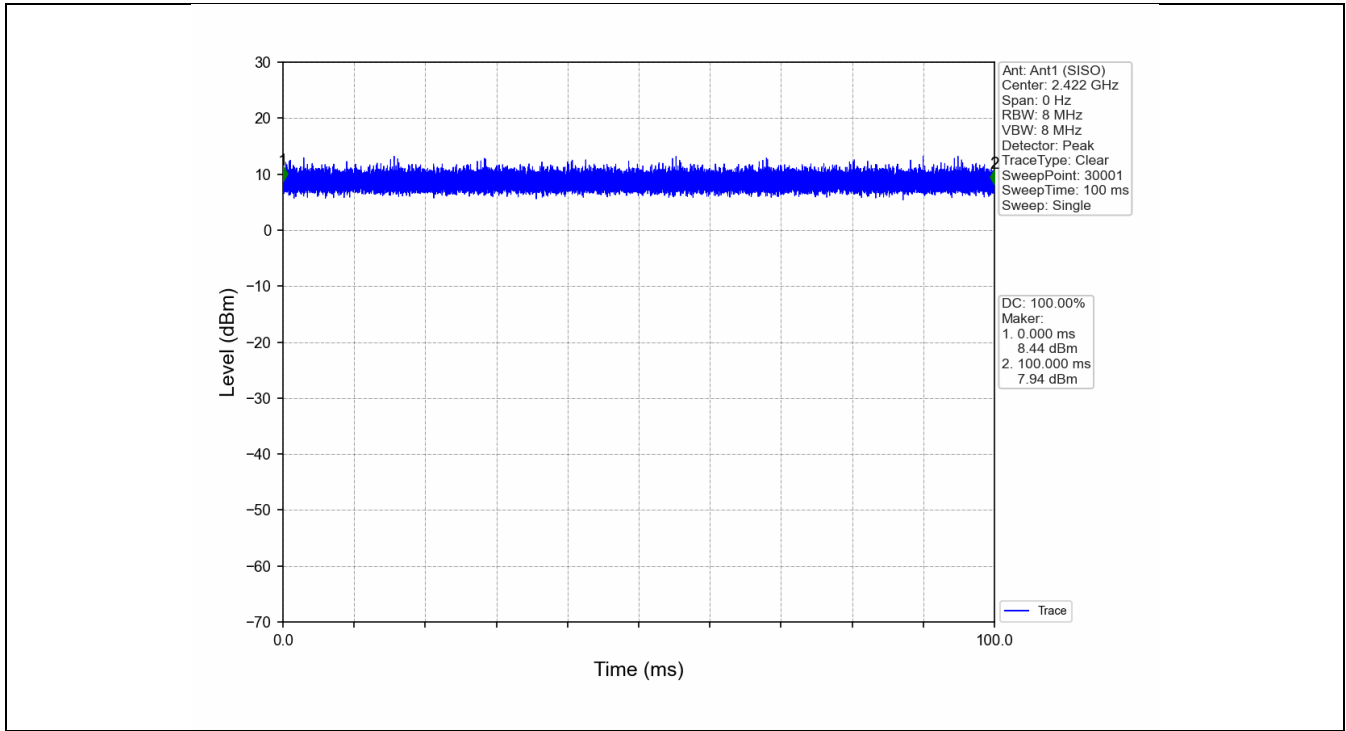
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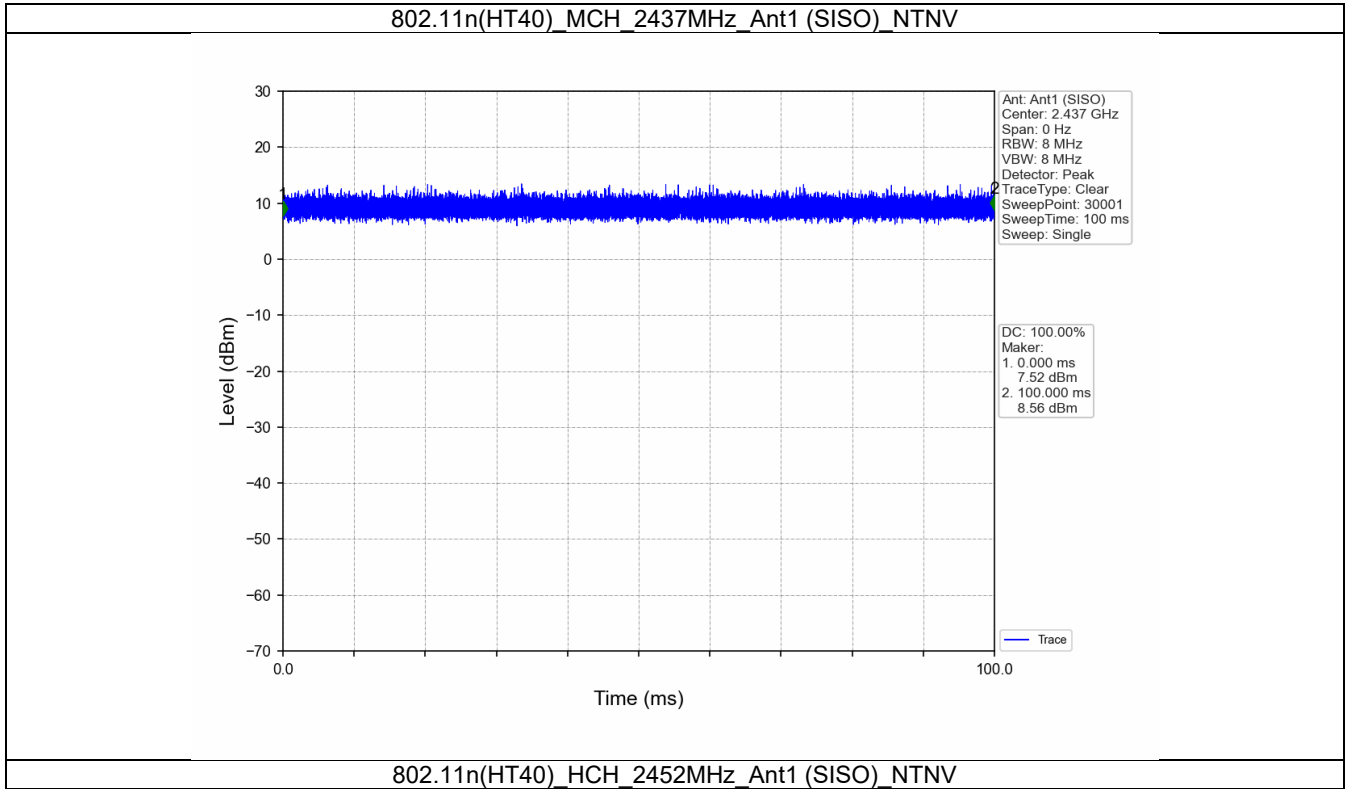
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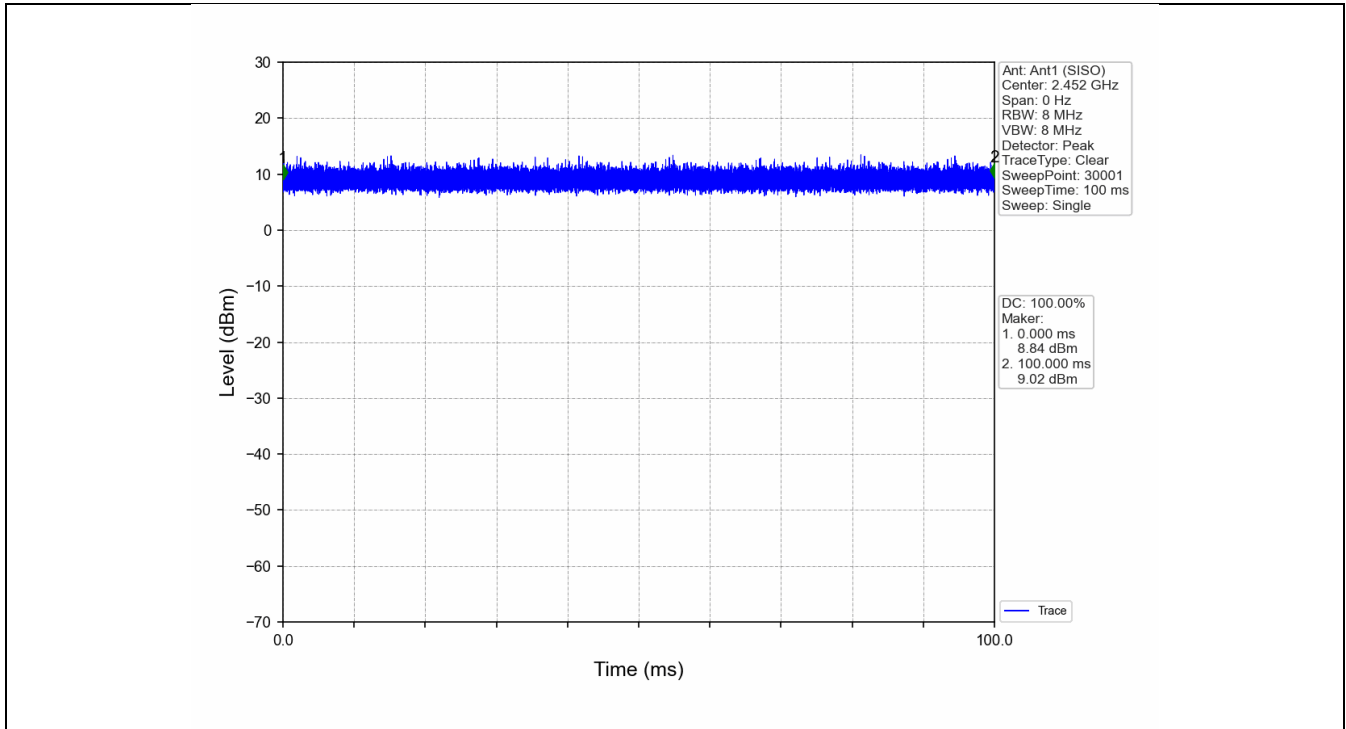
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.687	Pass
		2437	1	14.737	Pass
		2462	1	14.764	Pass
802.11g	SISO	2412	1	17.688	Pass
		2437	1	17.708	Pass
		2462	1	17.732	Pass
802.11n (HT20)	SISO	2412	1	18.551	Pass
		2437	1	18.577	Pass
		2462	1	18.585	Pass
802.11n (HT40)	SISO	2422	1	36.002	Pass
		2437	1	35.979	Pass
		2452	1	35.980	Pass

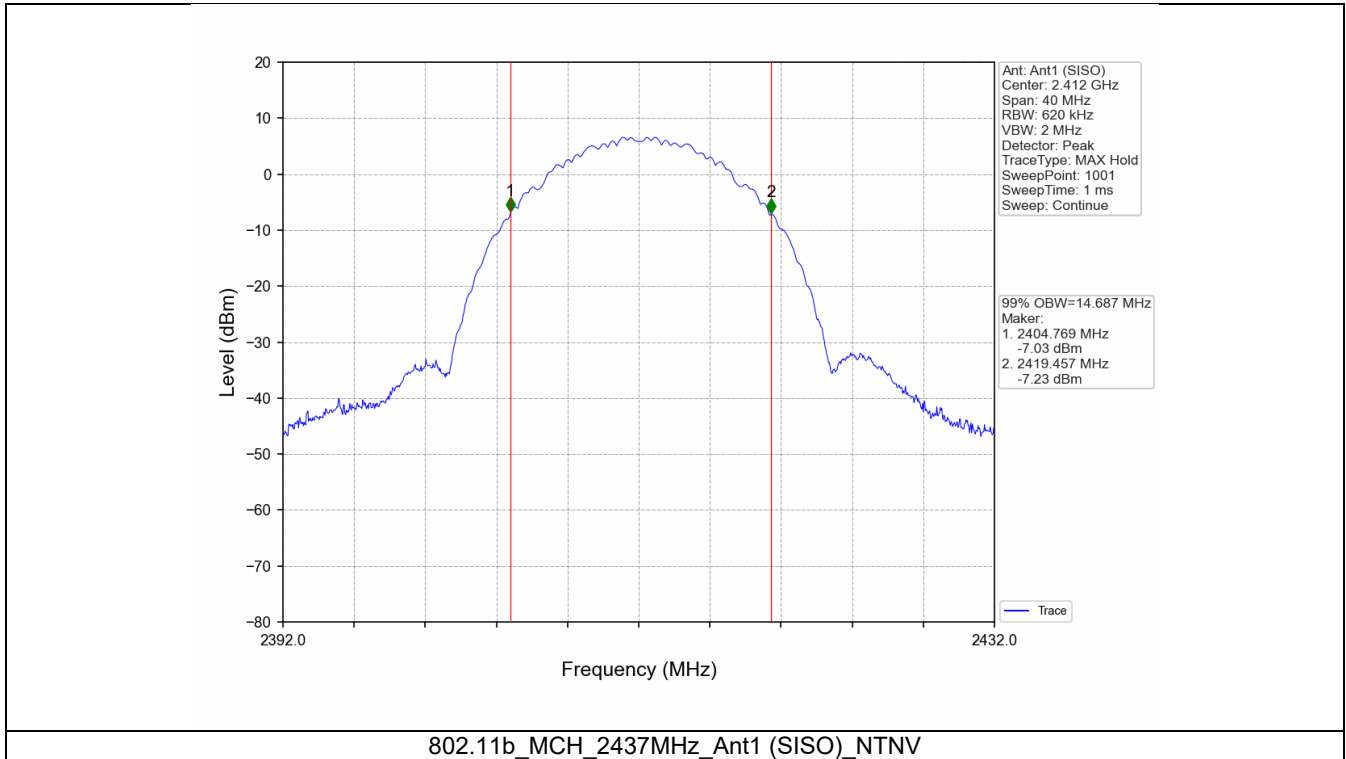
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



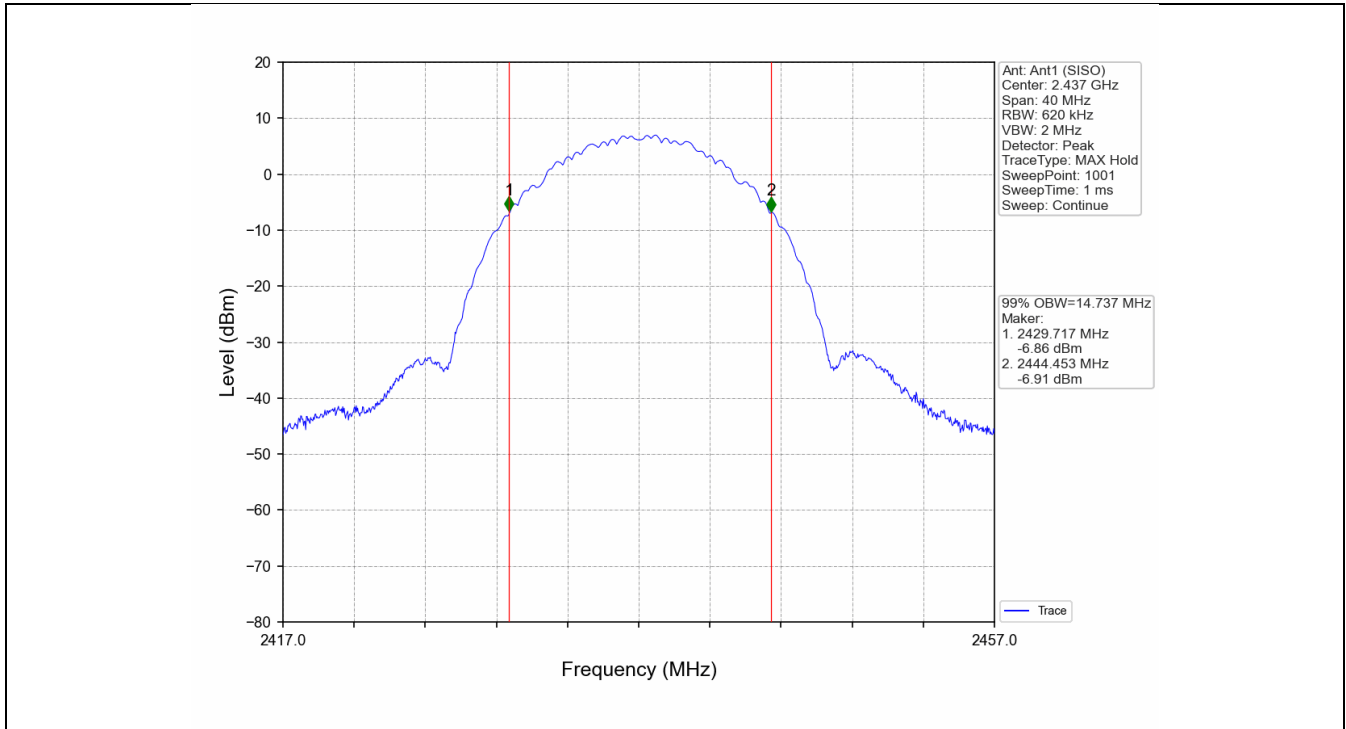
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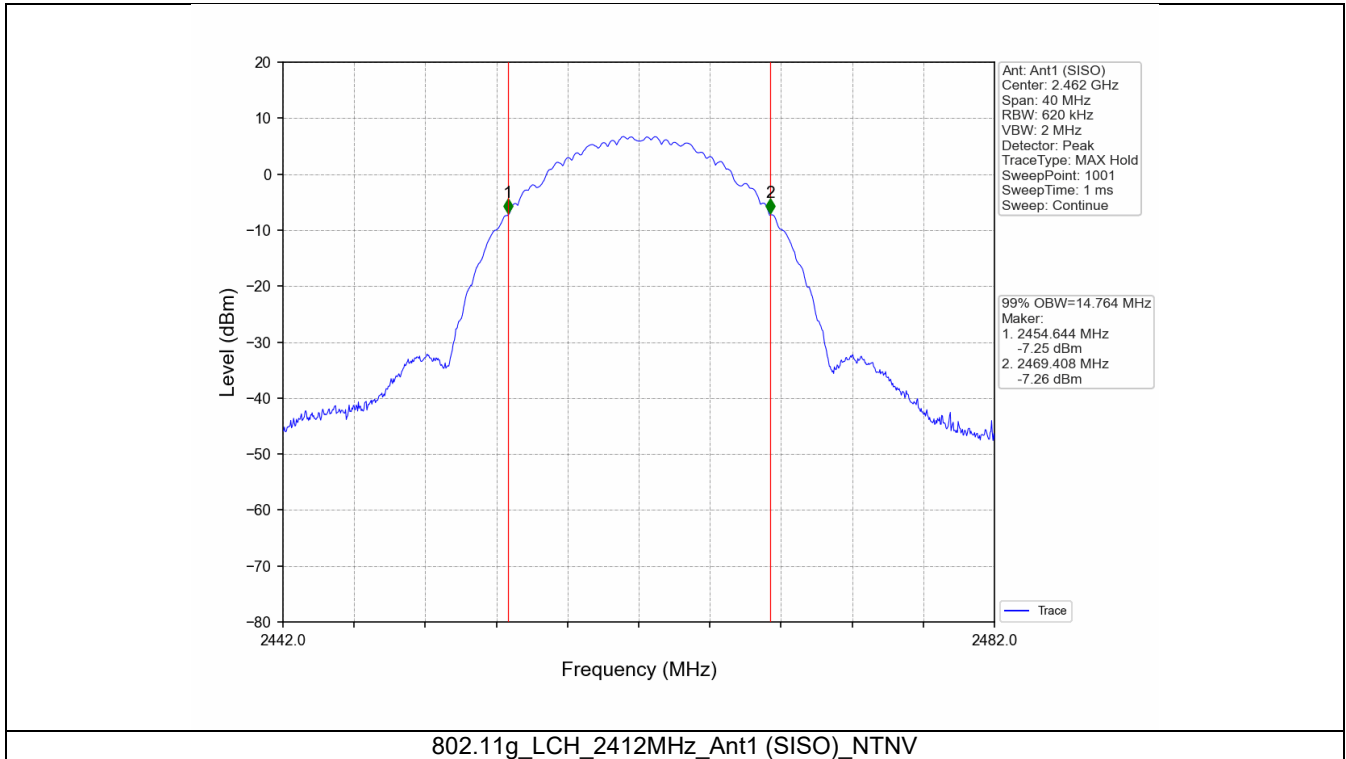


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



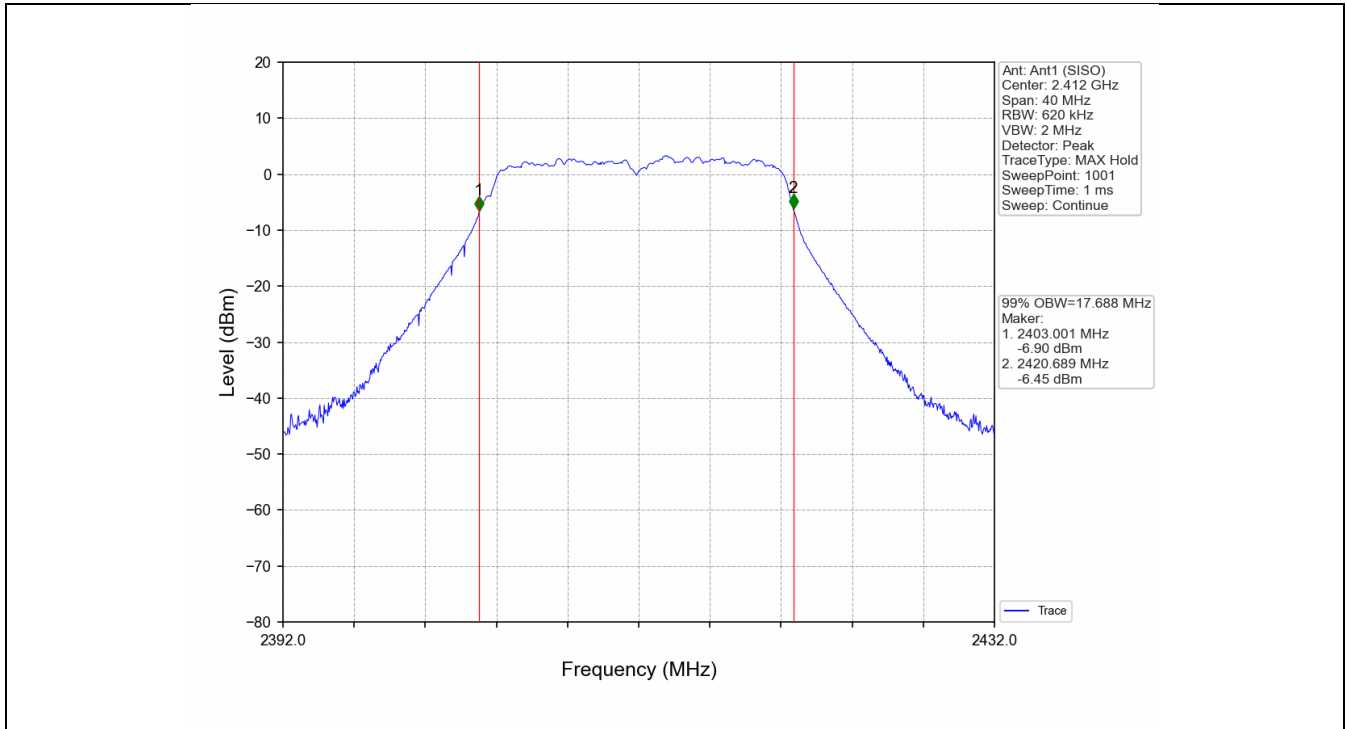
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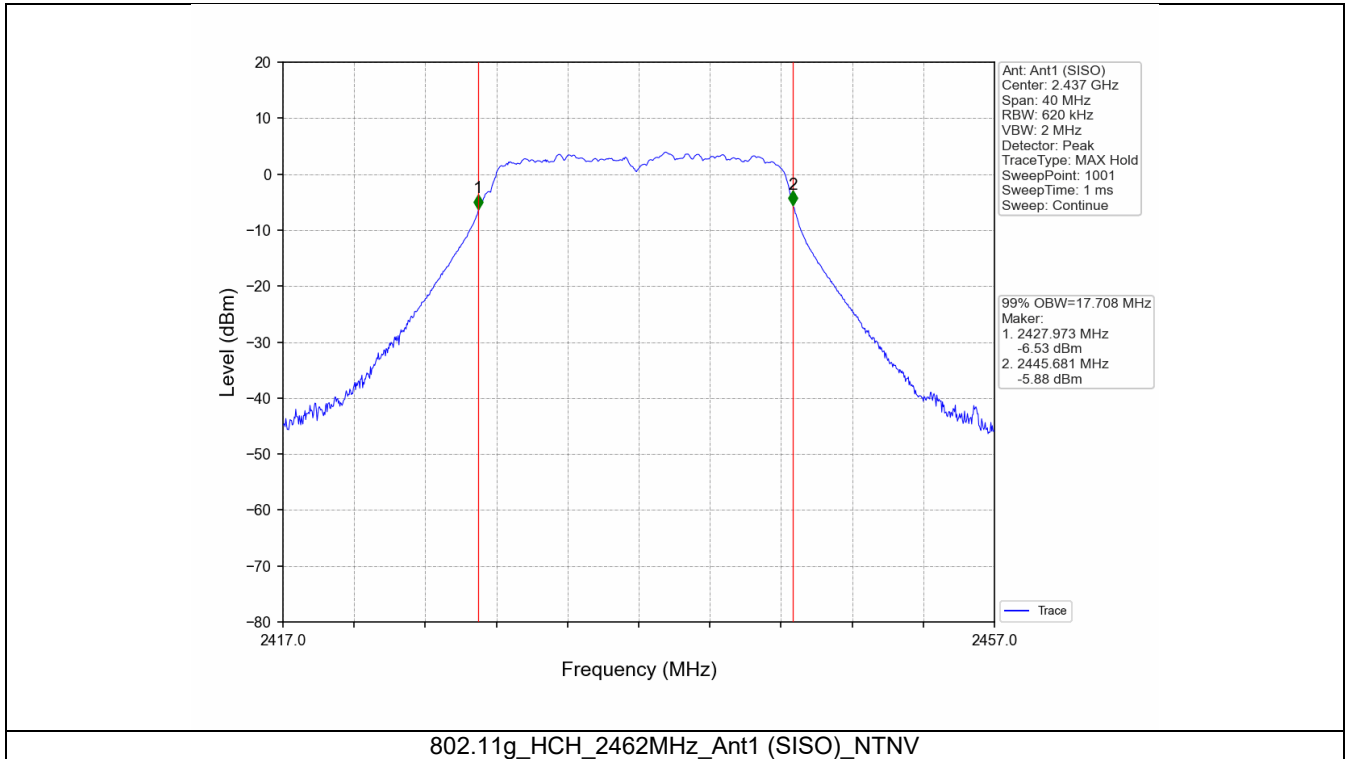


802.11g_MCH_2437MHz_Ant1 (SISO) NTV



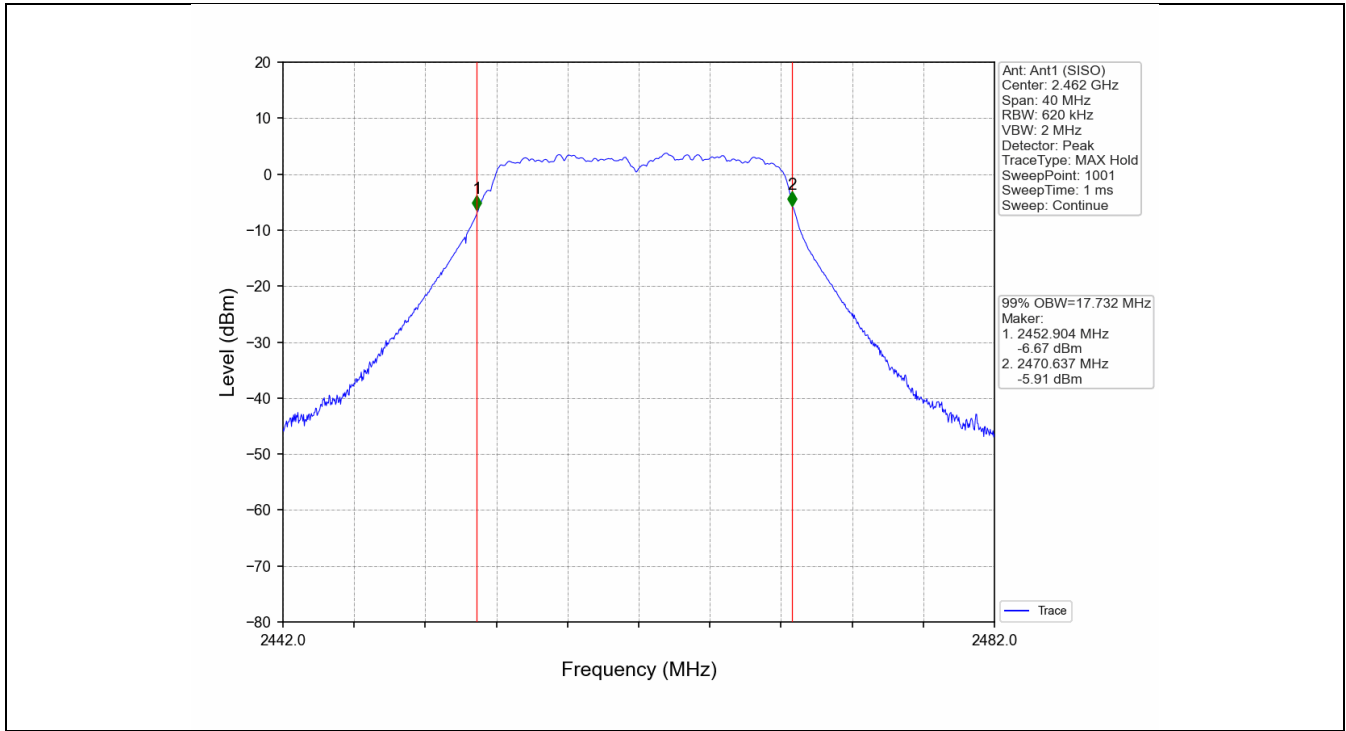
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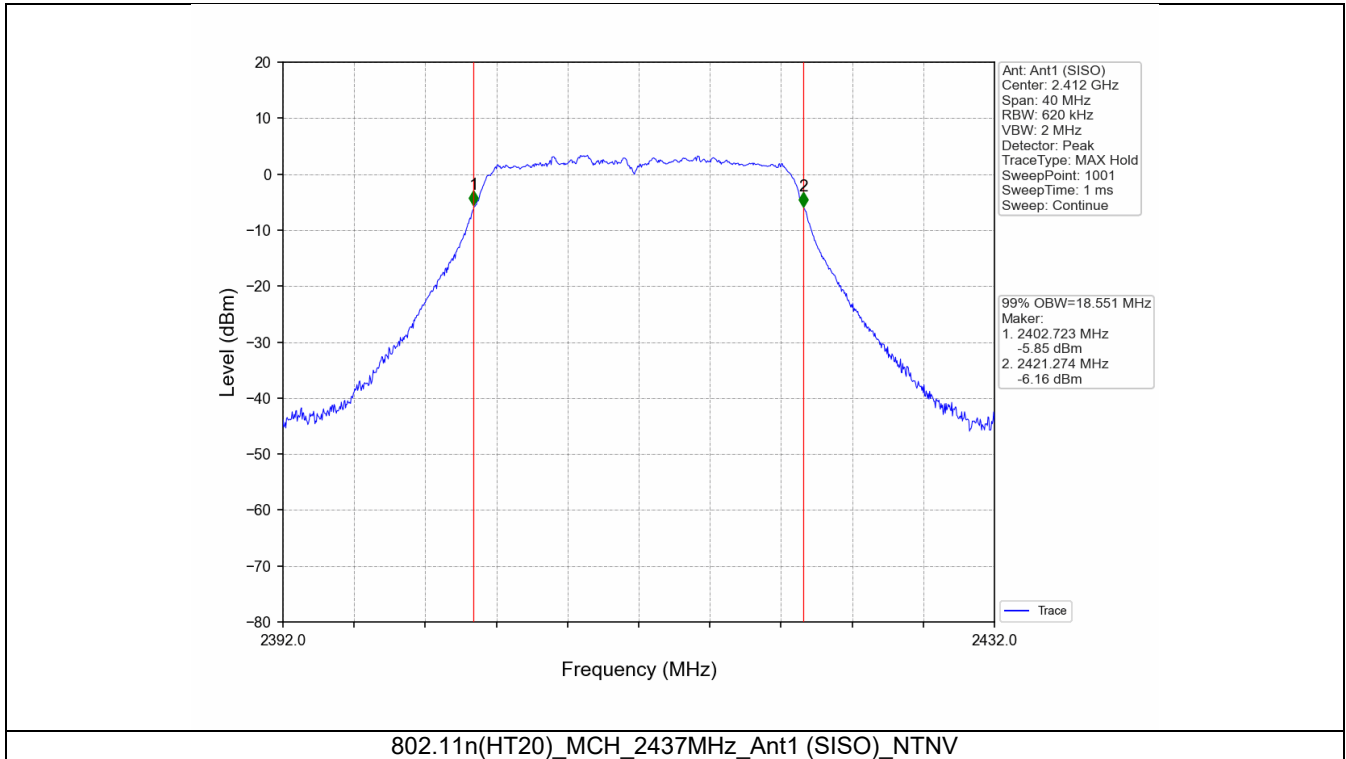


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



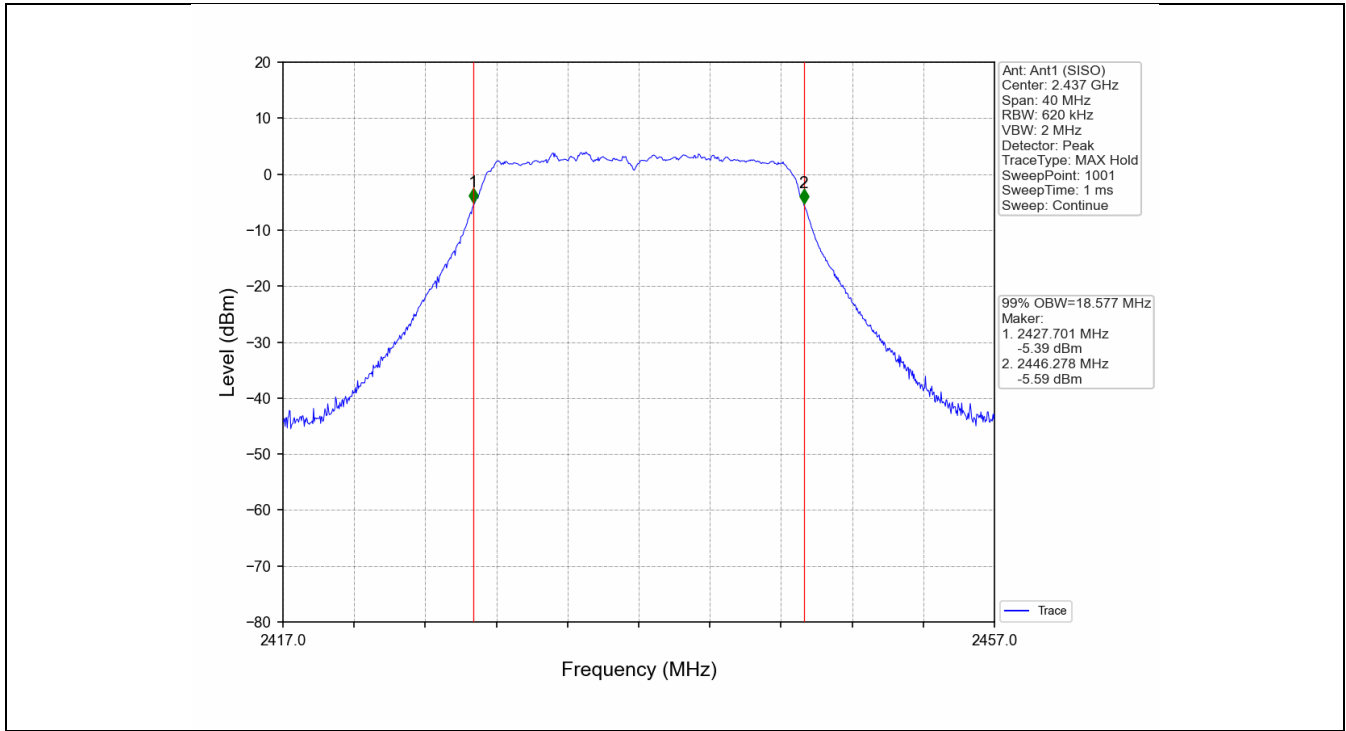
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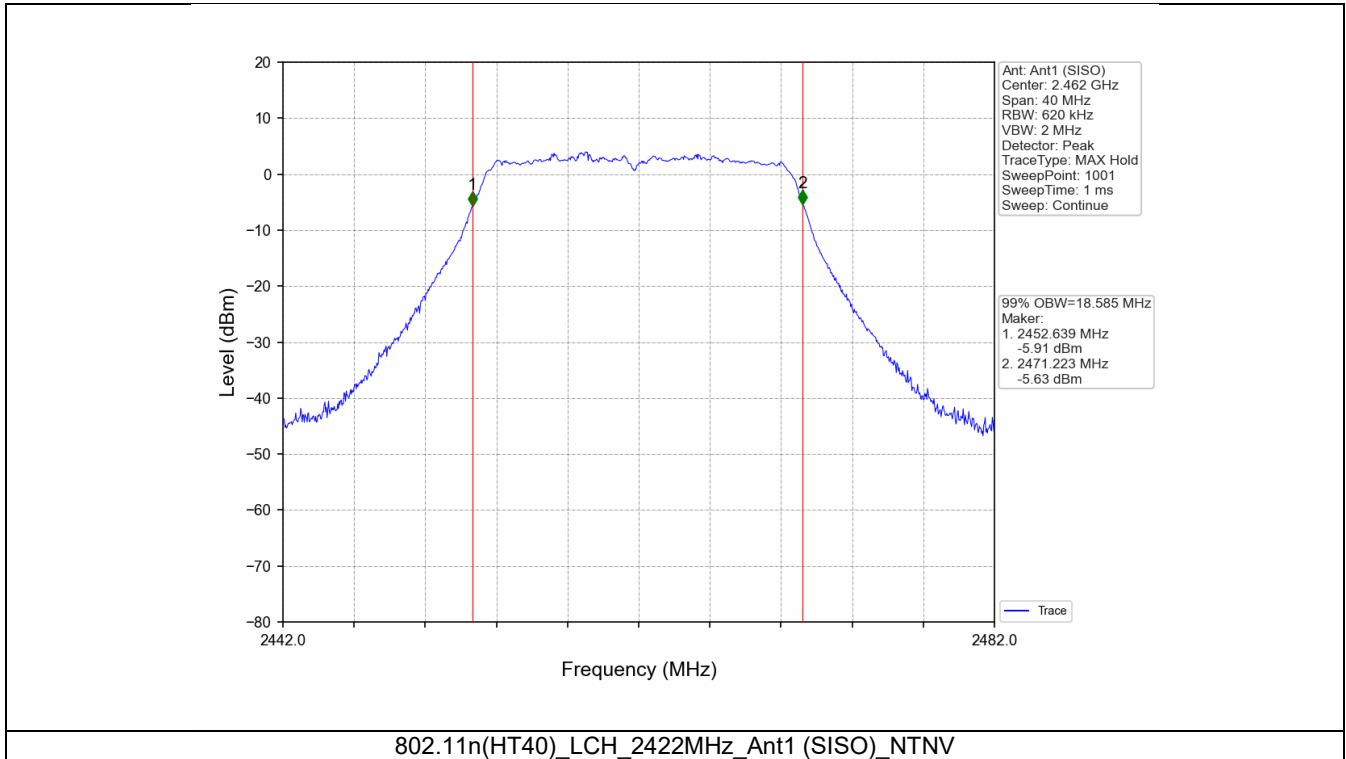


802.11n(HT20) HCH_2462MHz_Ant1 (SISO)_NTNV



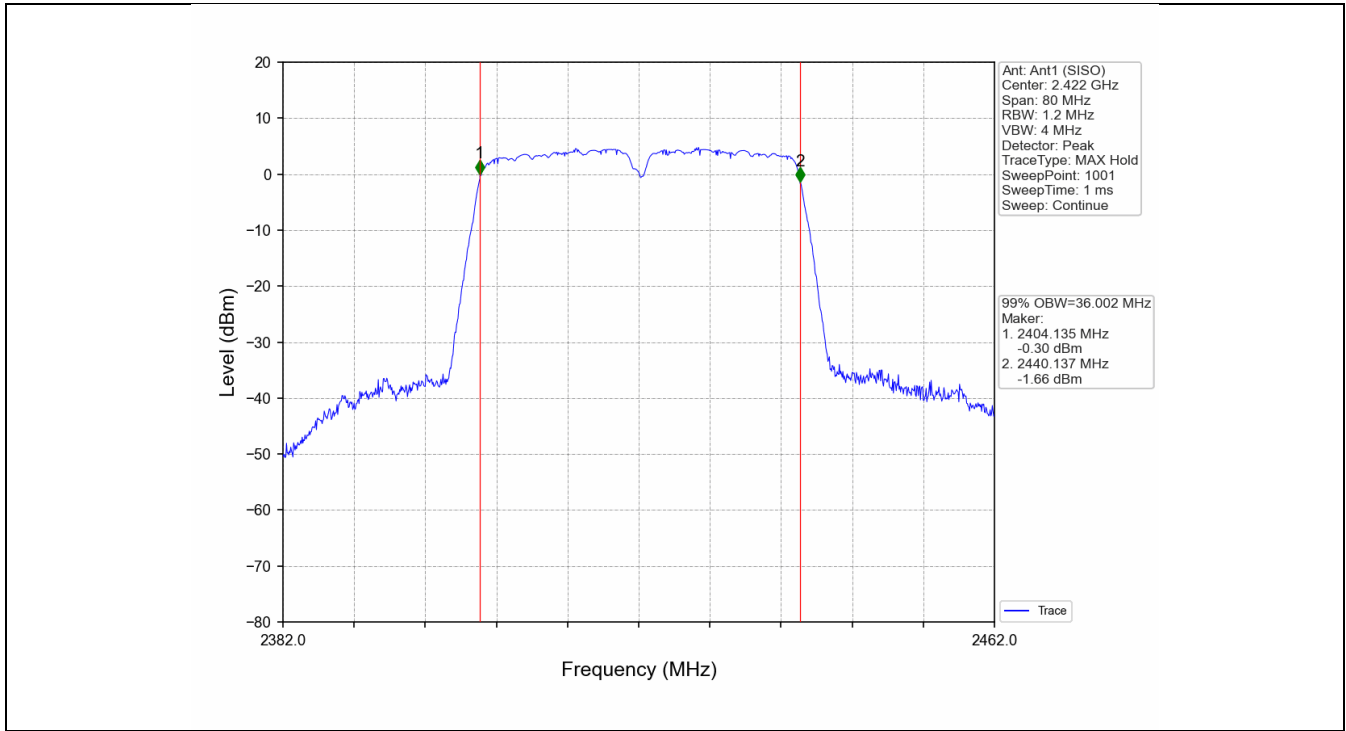
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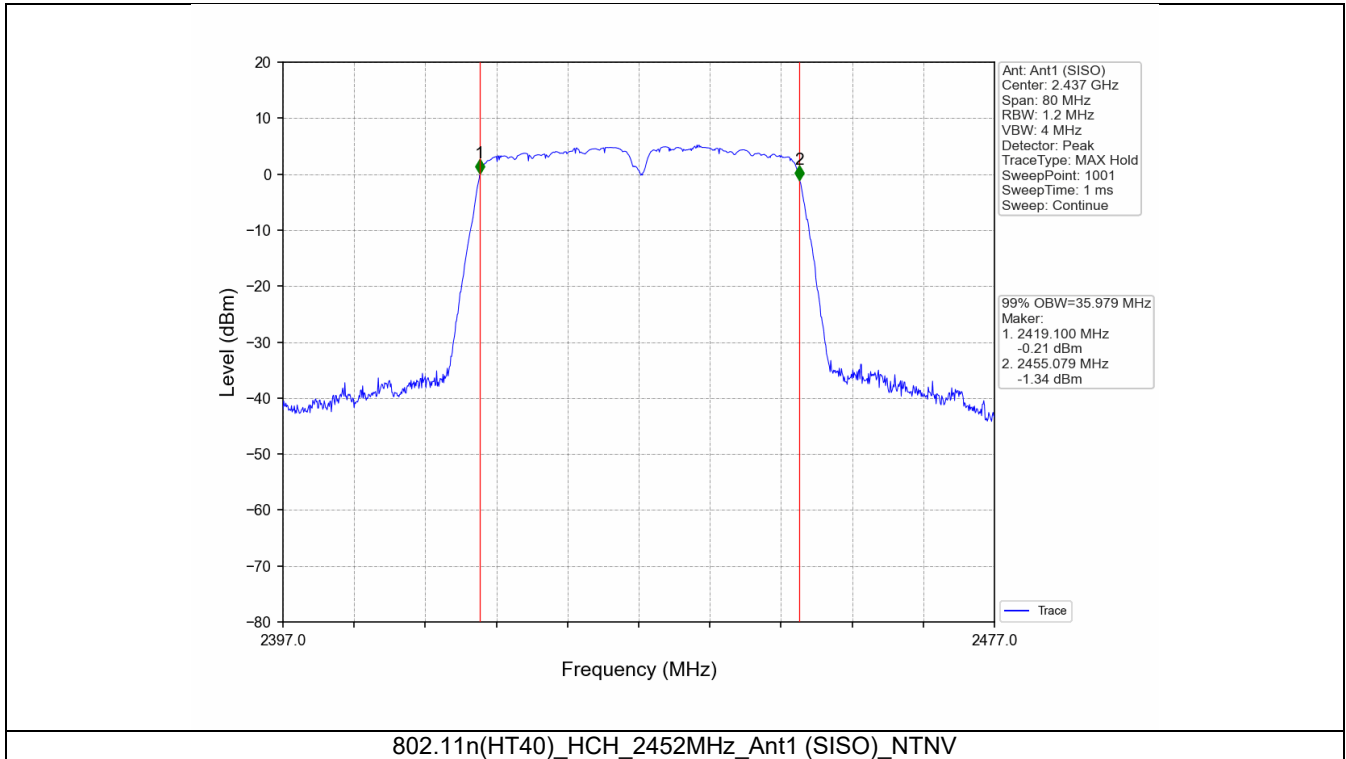


802.11n(HT40) MCH_2437MHz Ant1 (SISO) NTV



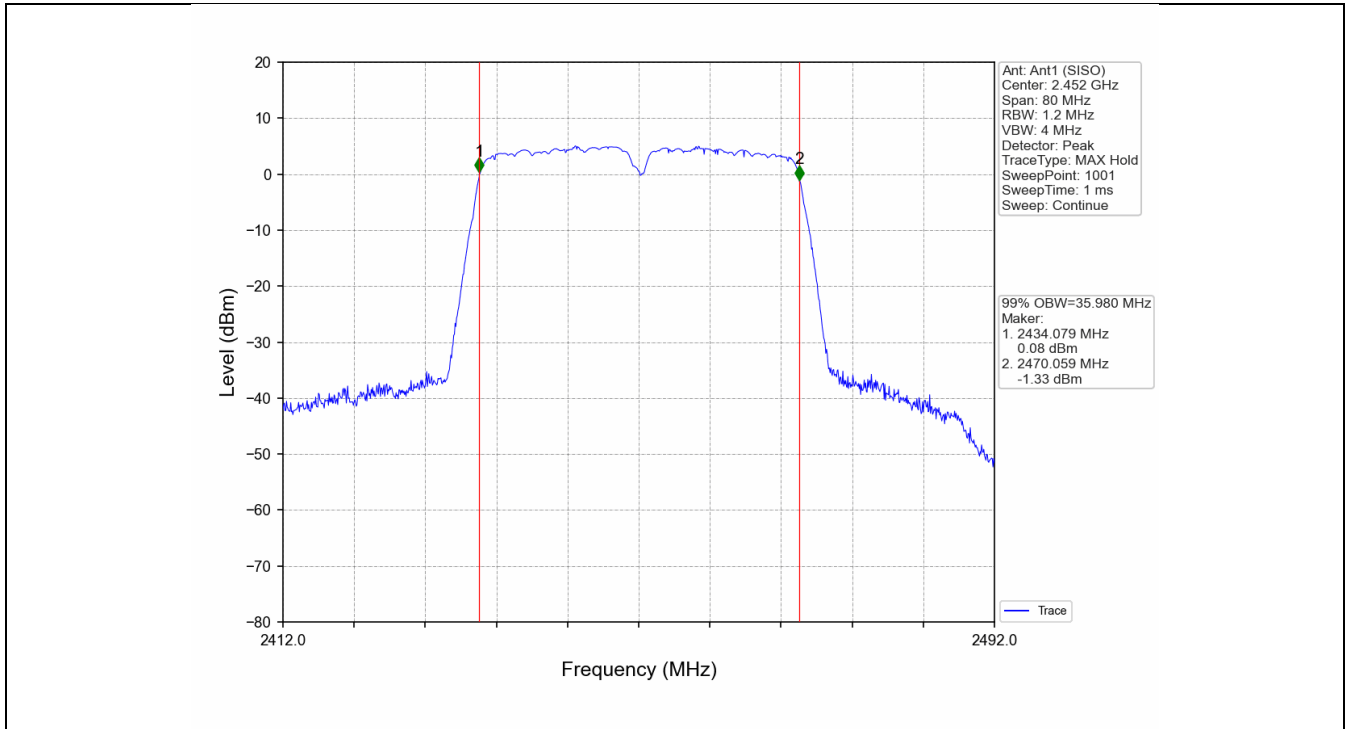
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2.2 6dB BW

2.2.1 Test Result

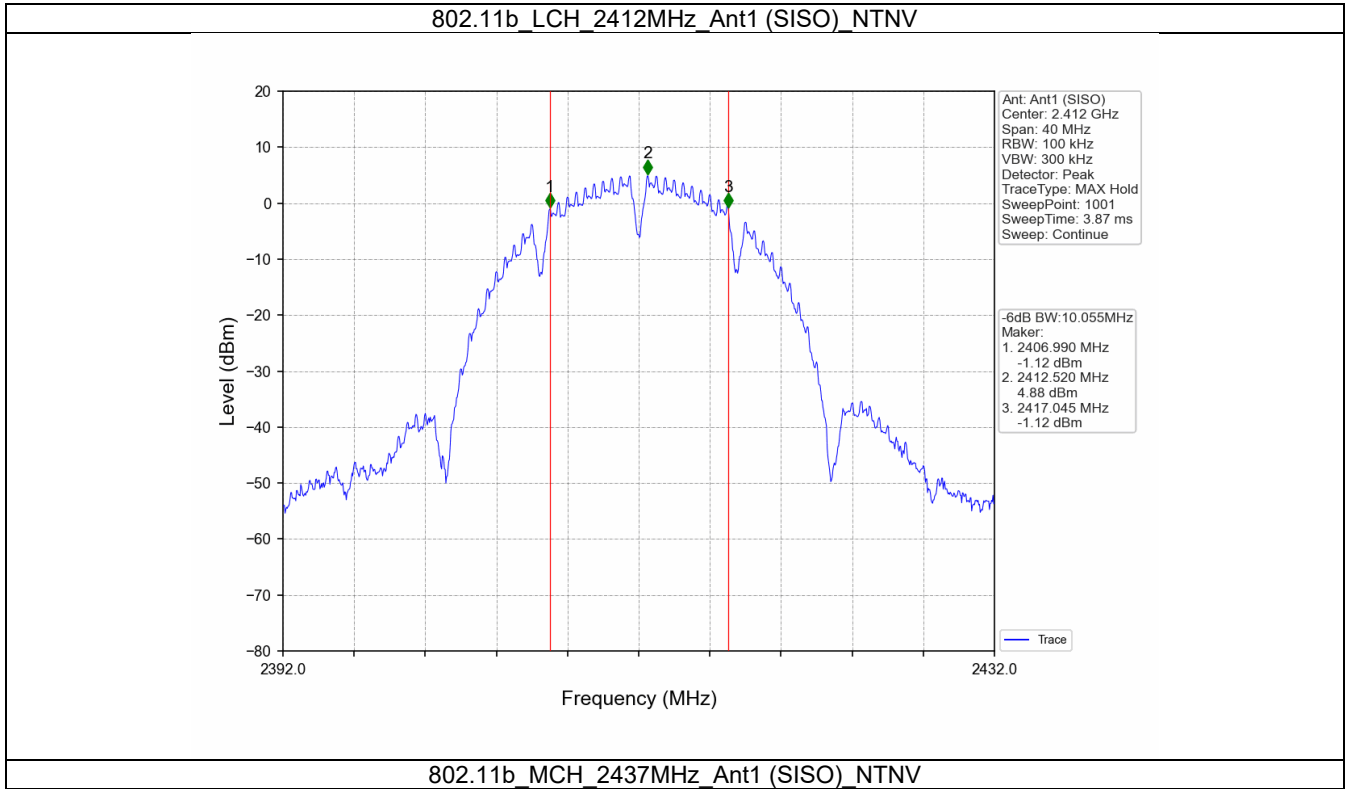
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.055	>=0.5	Pass
		2437	1	10.077	>=0.5	Pass
		2462	1	10.086	>=0.5	Pass
802.11g	SISO	2412	1	16.568	>=0.5	Pass
		2437	1	16.572	>=0.5	Pass
		2462	1	16.566	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.750	>=0.5	Pass
		2437	1	17.758	>=0.5	Pass
		2462	1	17.759	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.411	>=0.5	Pass
		2437	1	36.405	>=0.5	Pass
		2452	1	36.403	>=0.5	Pass



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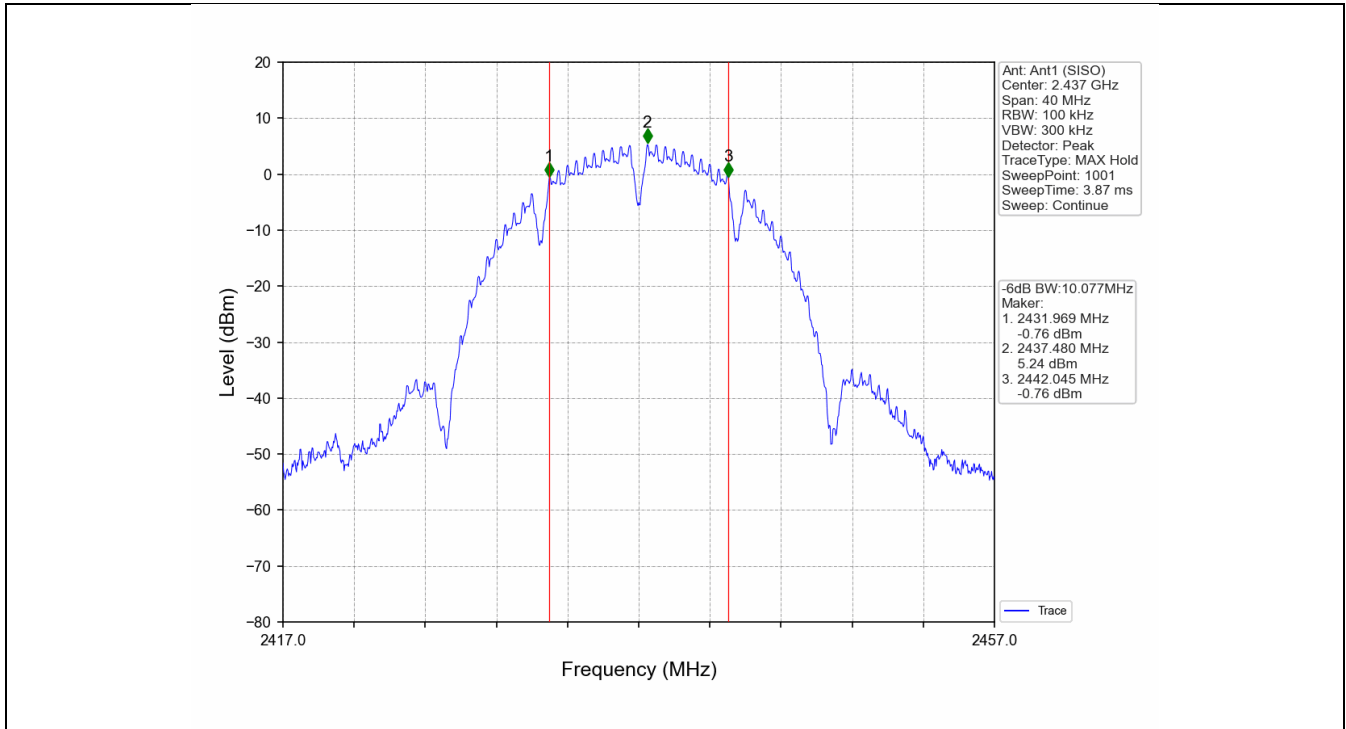
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2.2.2 Test Graph



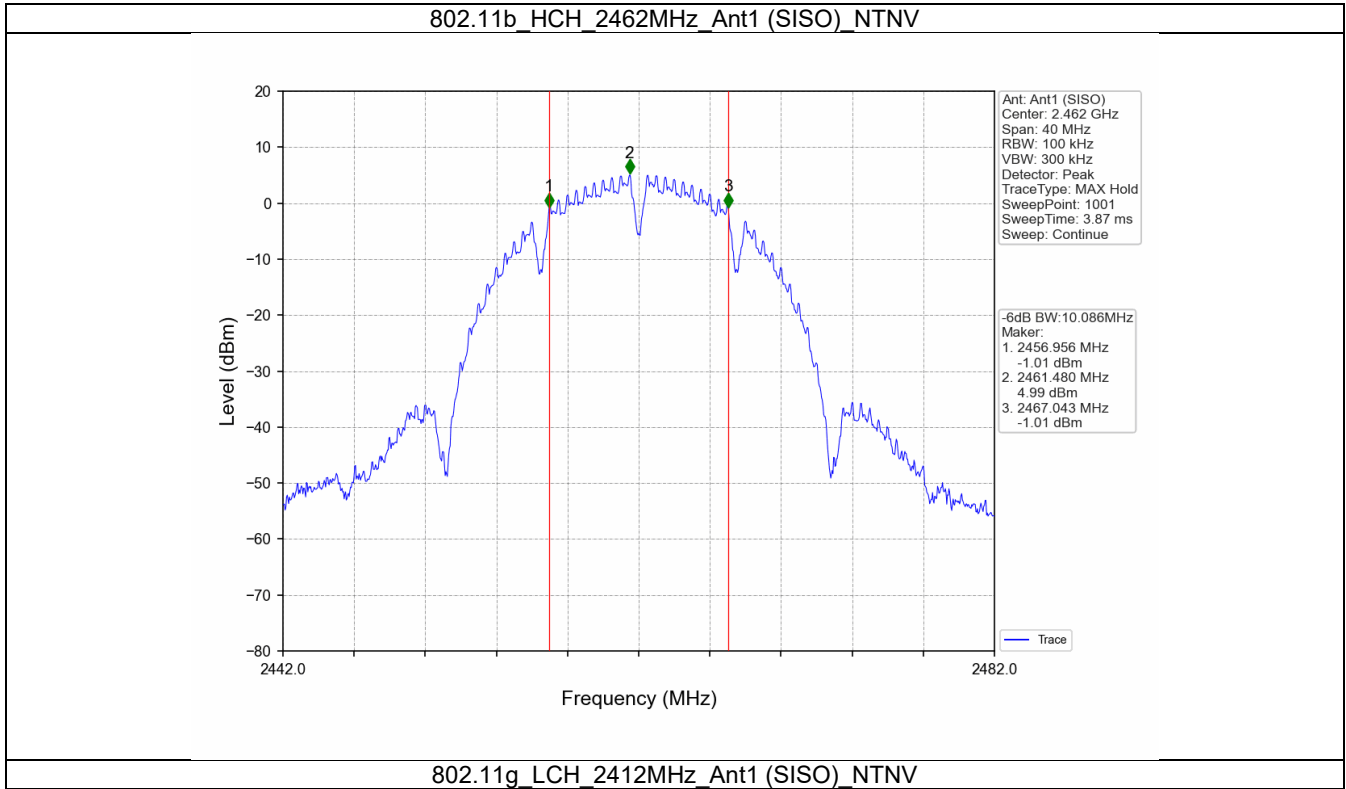
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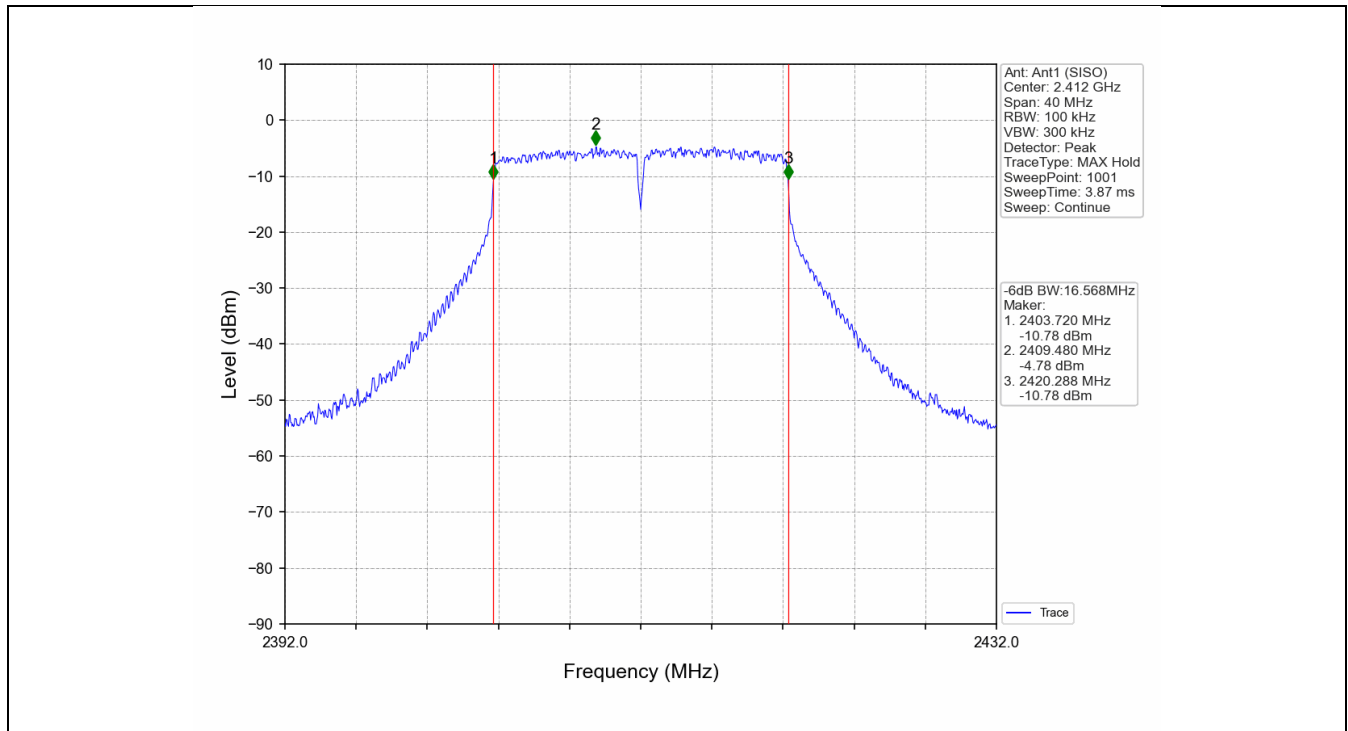
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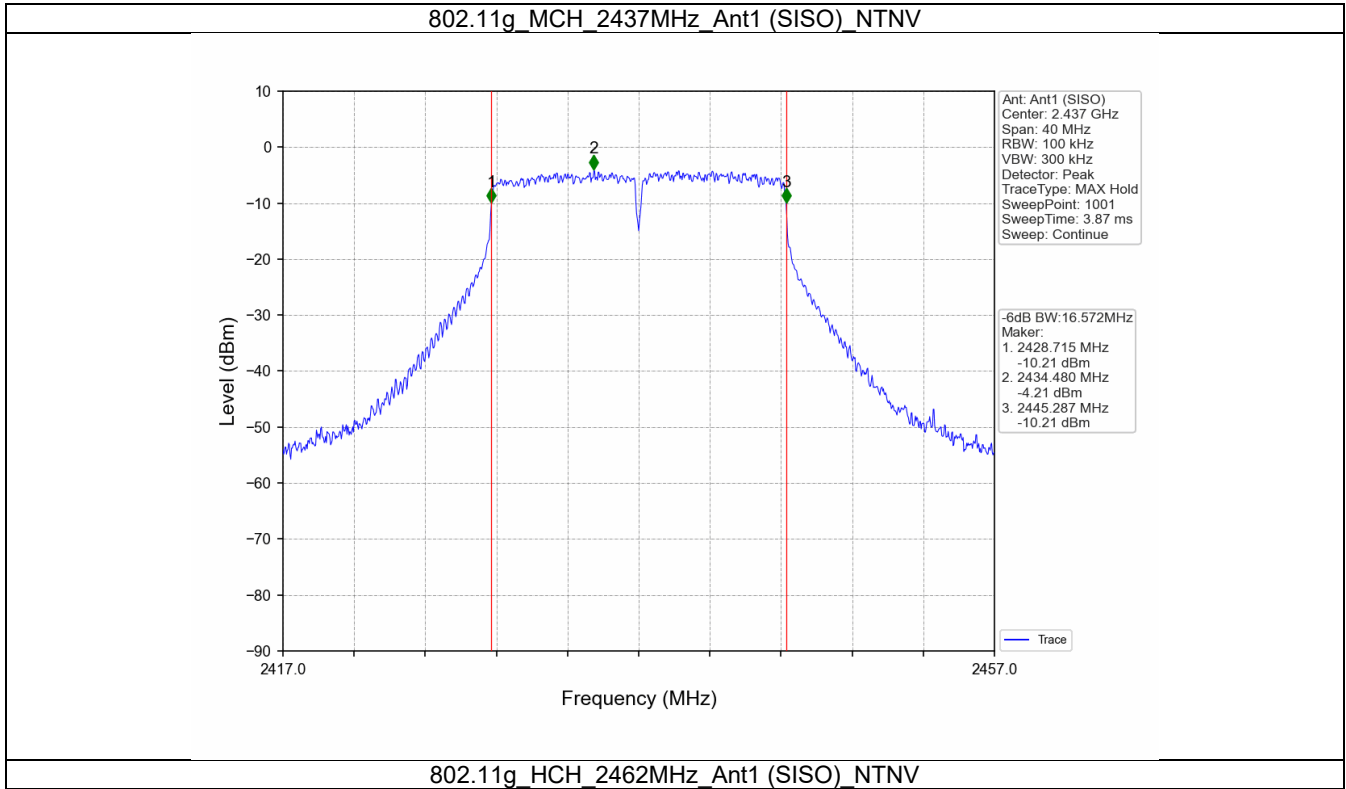
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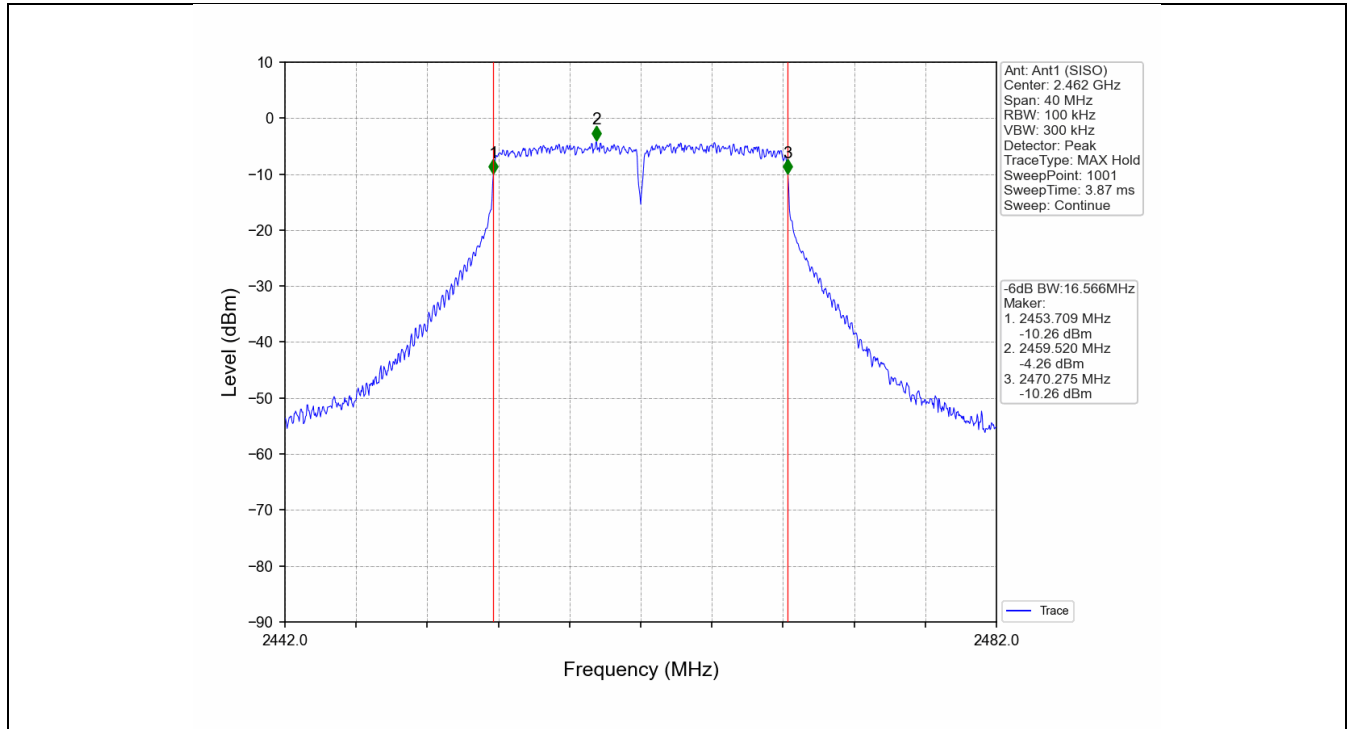
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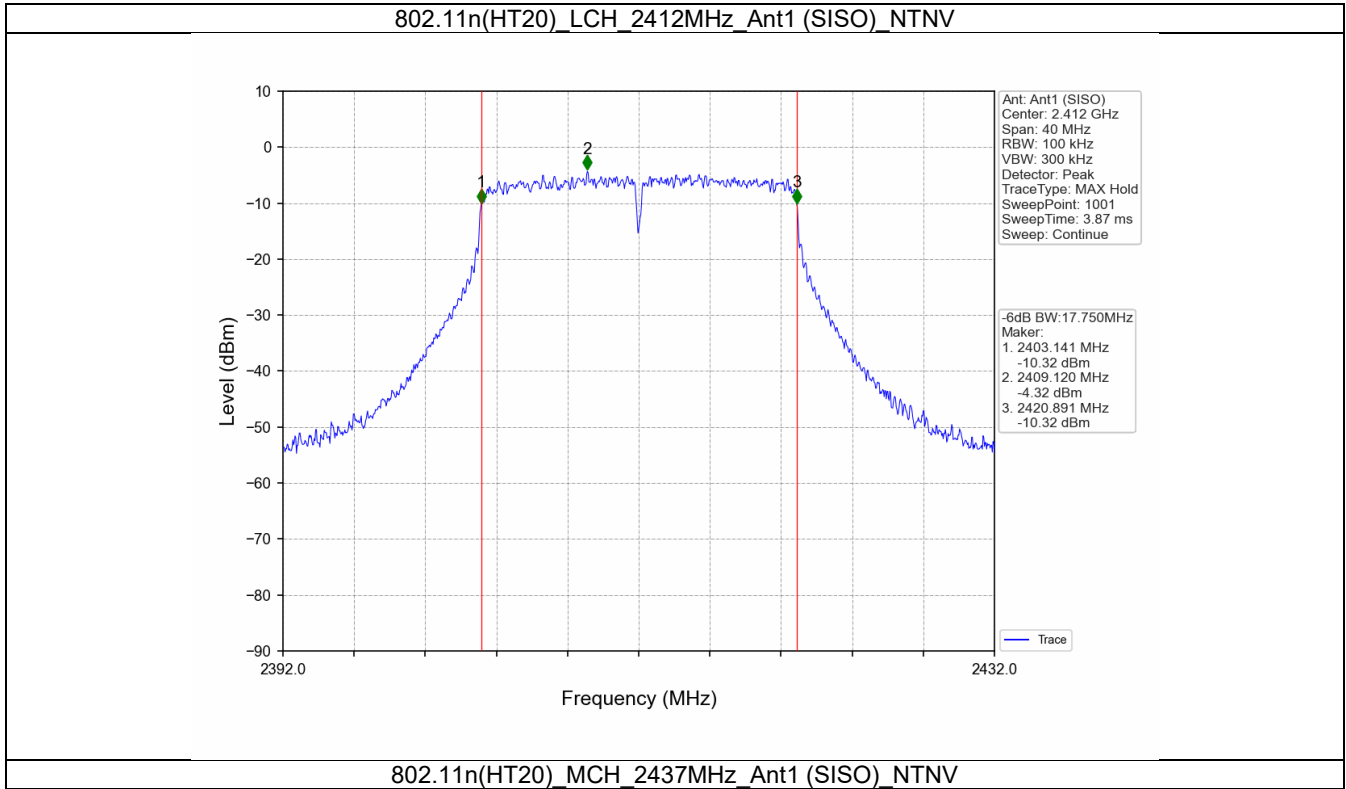
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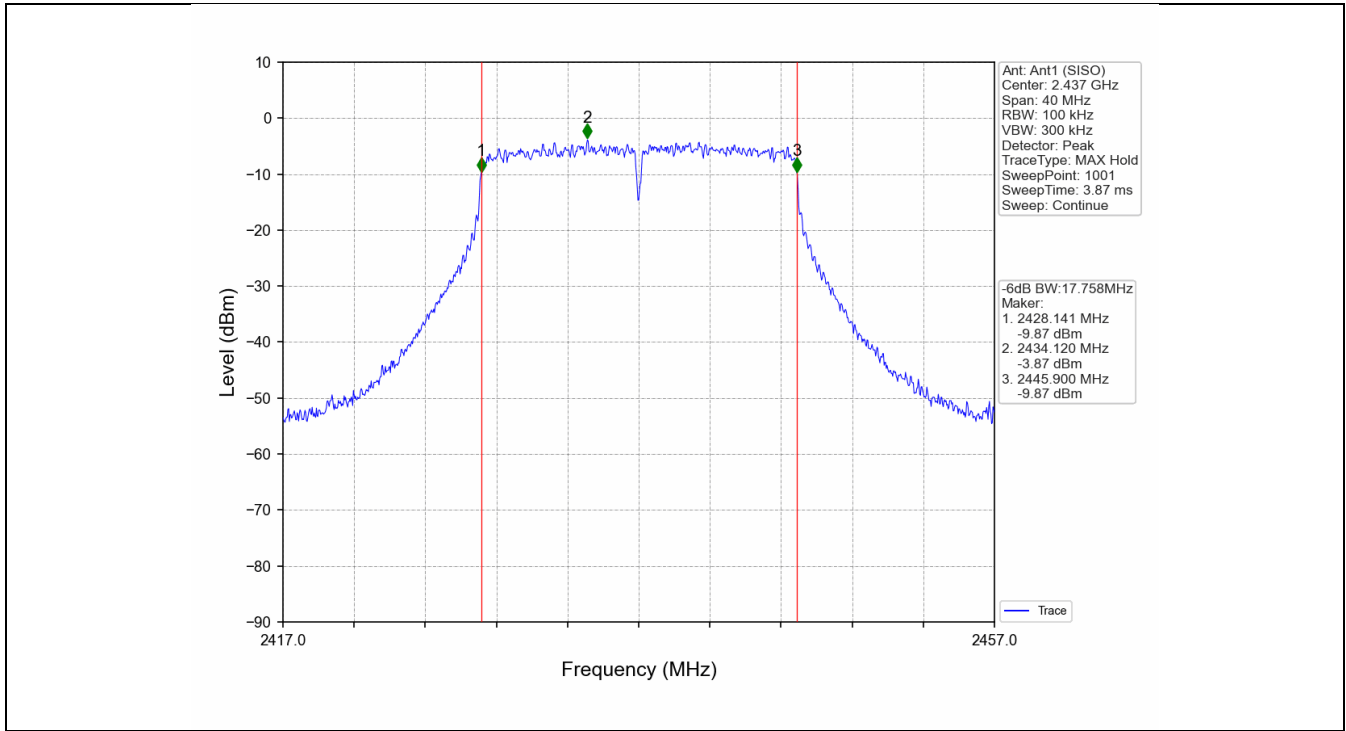
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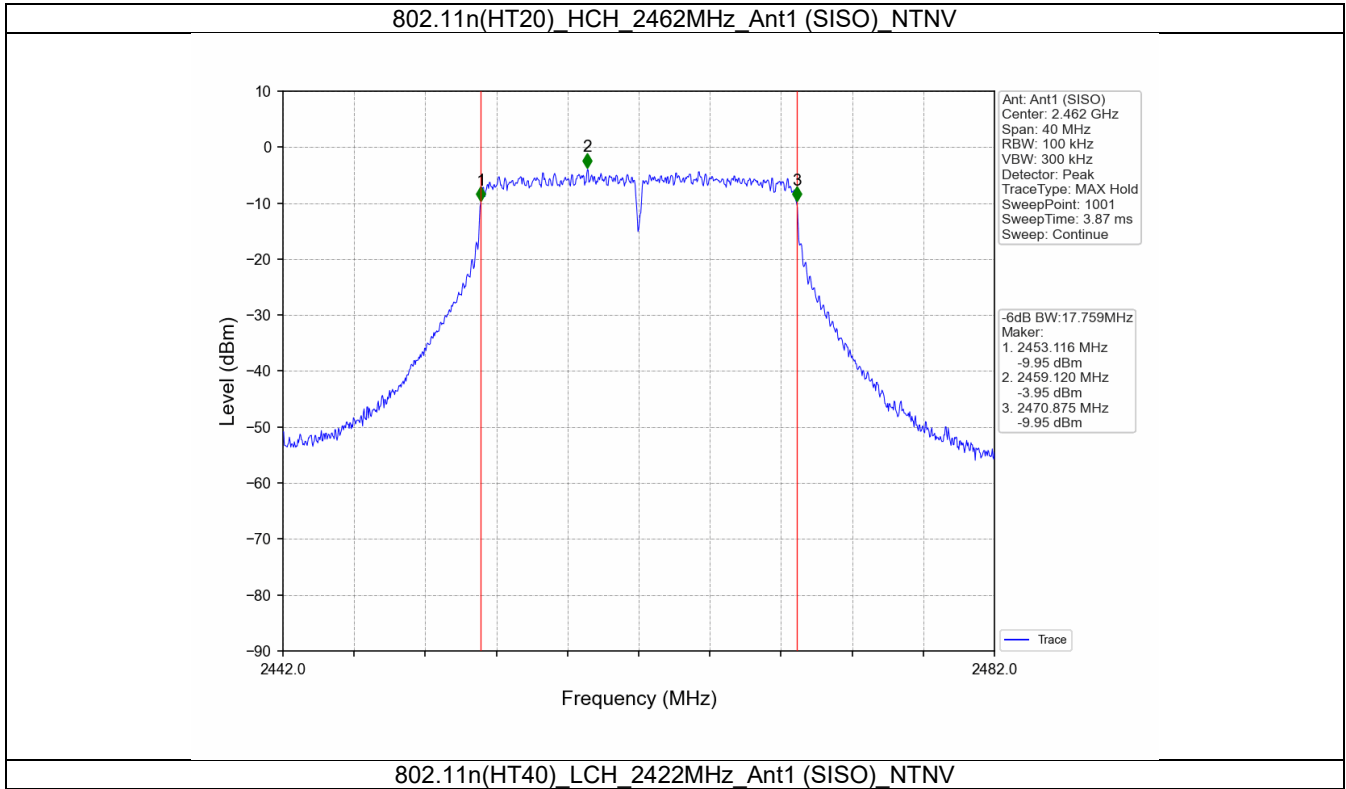
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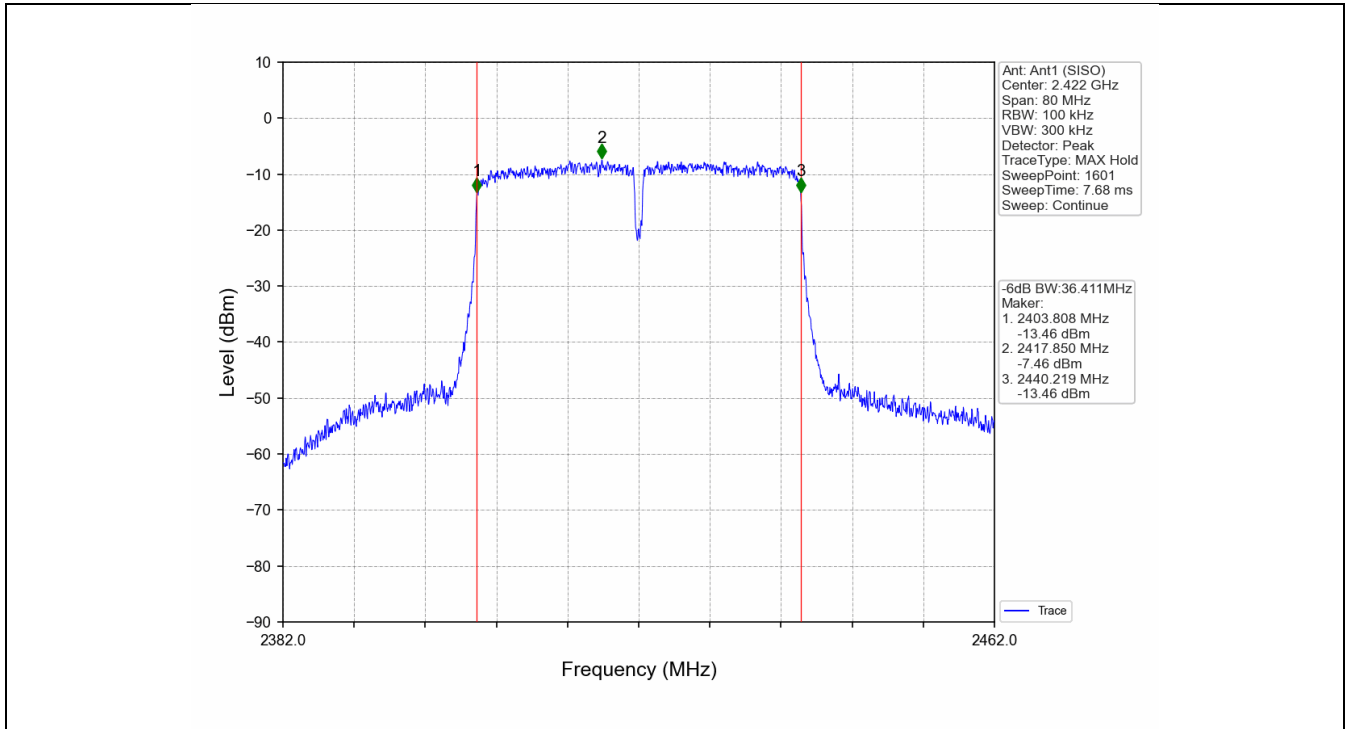
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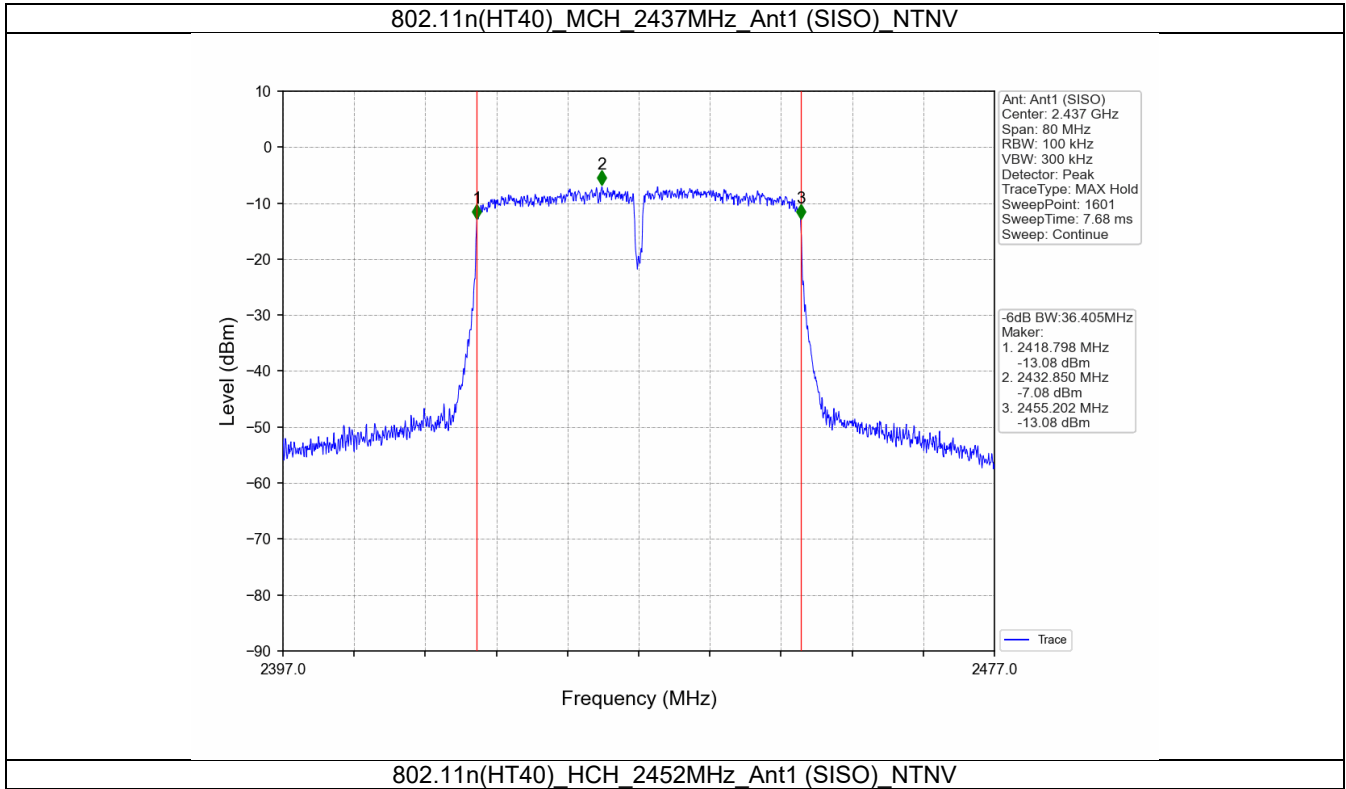
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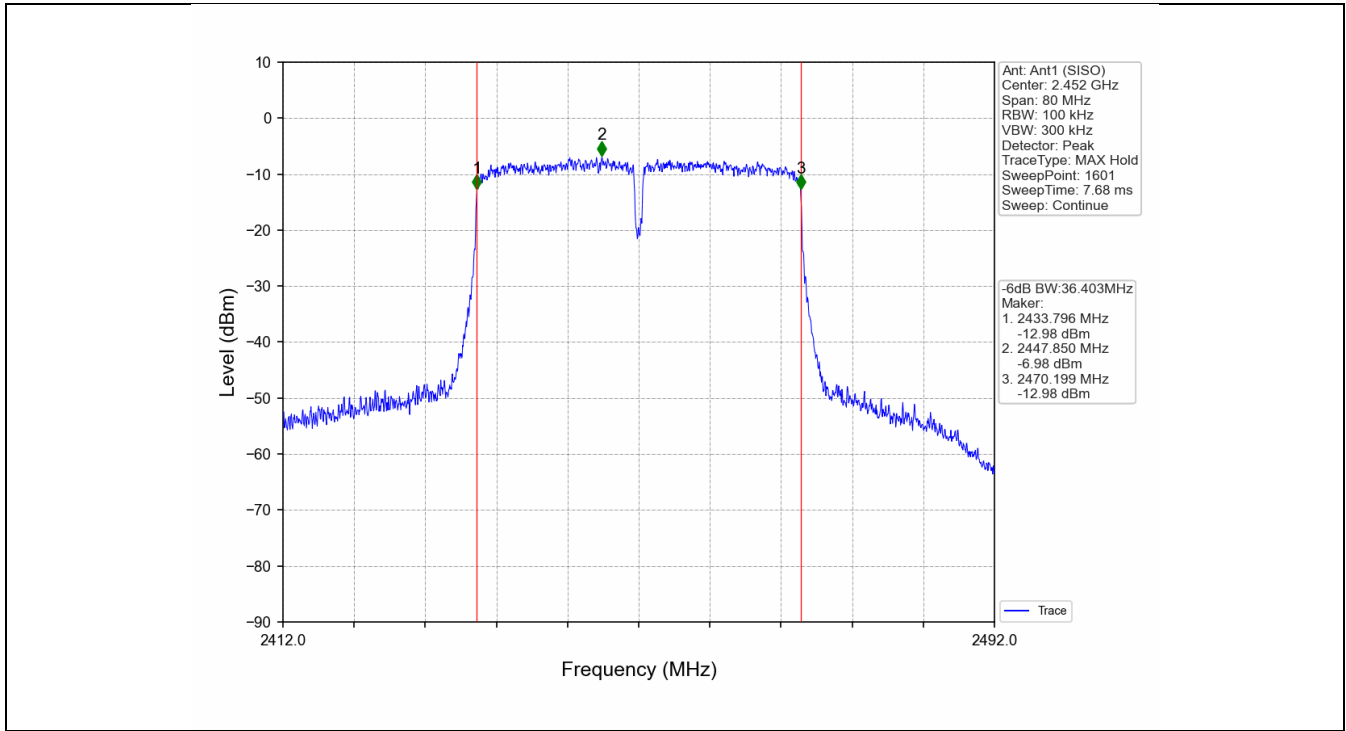
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	17.17	<=30	Pass
		2437	17.54	<=30	Pass
		2462	17.36	<=30	Pass
802.11g	SISO	2412	17.07	<=30	Pass
		2437	17.67	<=30	Pass
		2462	17.56	<=30	Pass
802.11n (HT20)	SISO	2412	17.22	<=30	Pass
		2437	17.76	<=30	Pass
		2462	17.66	<=30	Pass
802.11n (HT40)	SISO	2422	17.39	<=30	Pass
		2437	17.68	<=30	Pass
		2452	17.75	<=30	Pass

Note1: Antenna Gain: Ant1: 3.39dBi;

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-15.12	<=8	Pass
		2437	-14.72	<=8	Pass
		2462	-14.93	<=8	Pass
802.11g	SISO	2412	-18.81	<=8	Pass
		2437	-18.46	<=8	Pass
		2462	-18.40	<=8	Pass
802.11n (HT20)	SISO	2412	-18.65	<=8	Pass
		2437	-18.13	<=8	Pass
		2462	-18.18	<=8	Pass
802.11n (HT40)	SISO	2422	-20.24	<=8	Pass
		2437	-18.51	<=8	Pass
		2452	-17.65	<=8	Pass

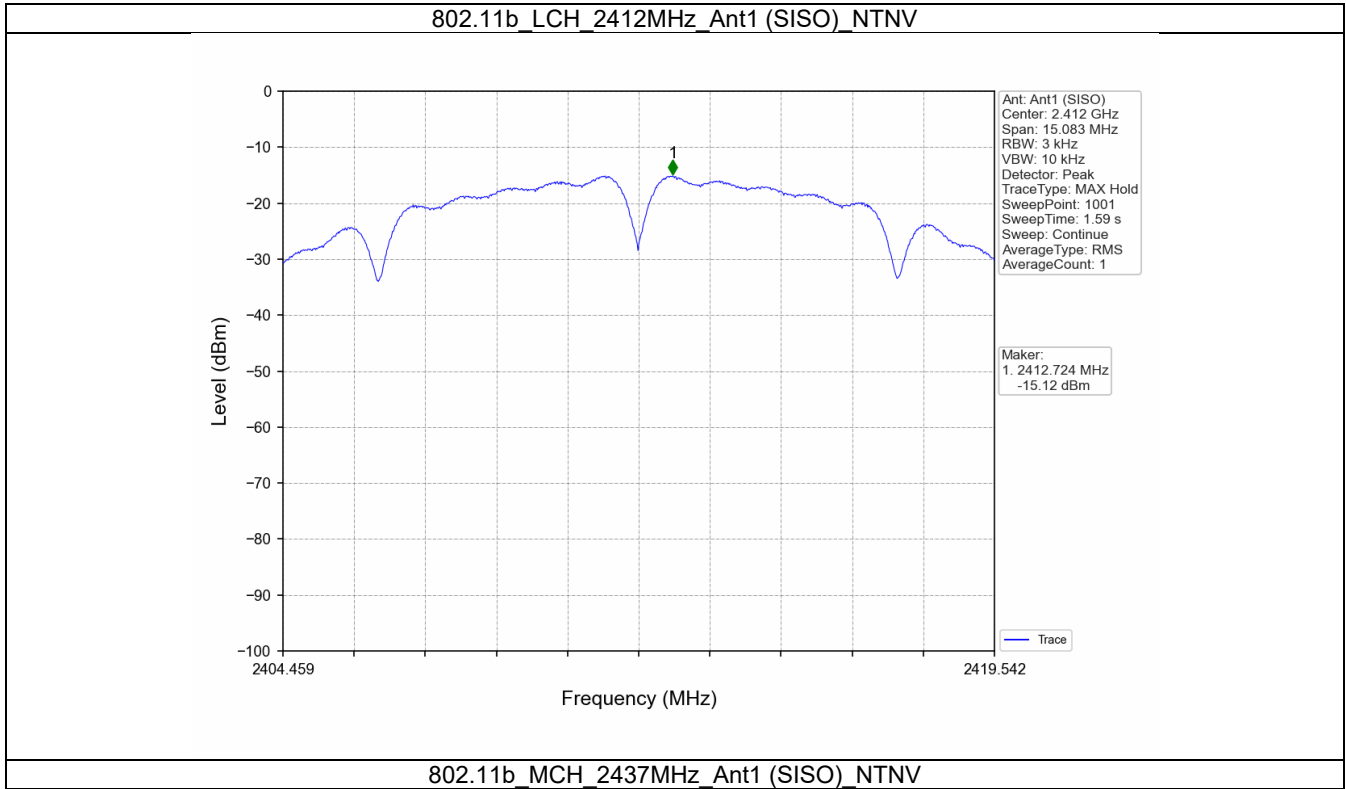
Note1: Antenna Gain: Ant1: 3.39dBi;



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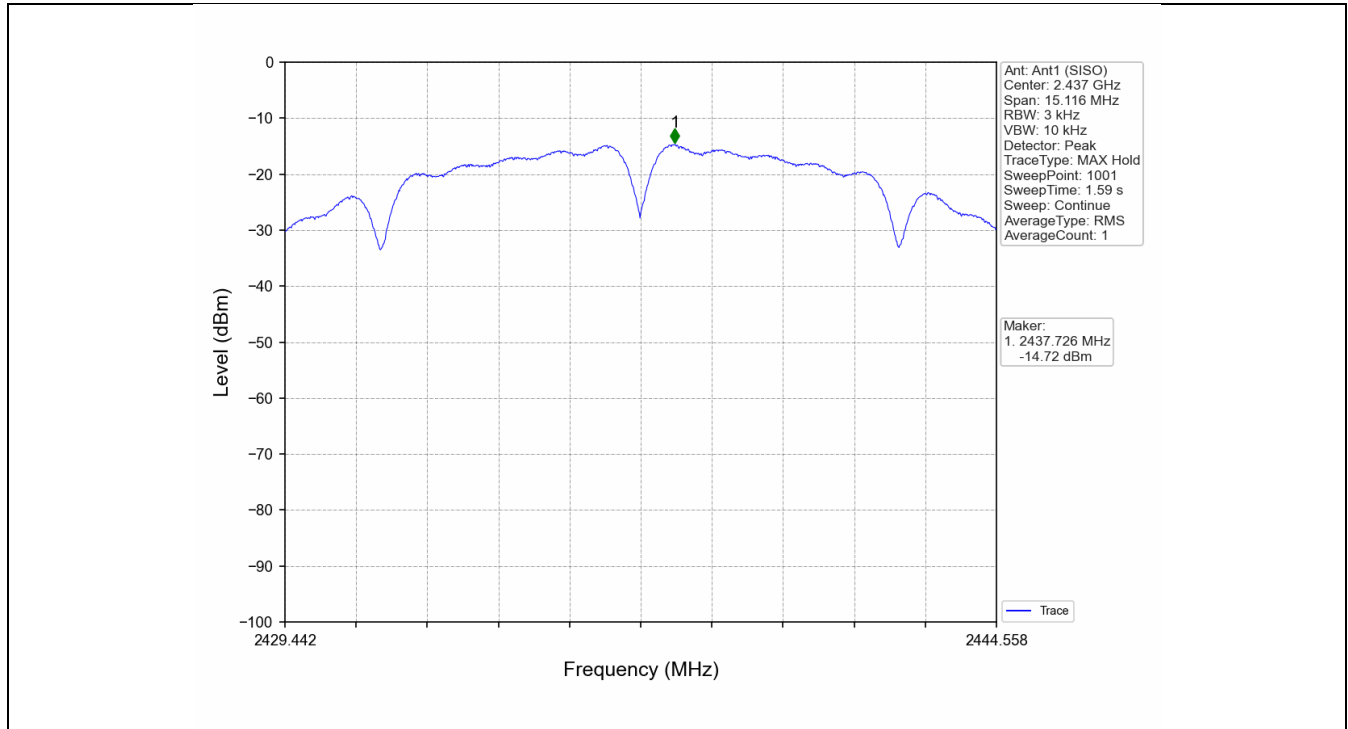
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4.1.2 Test Graph



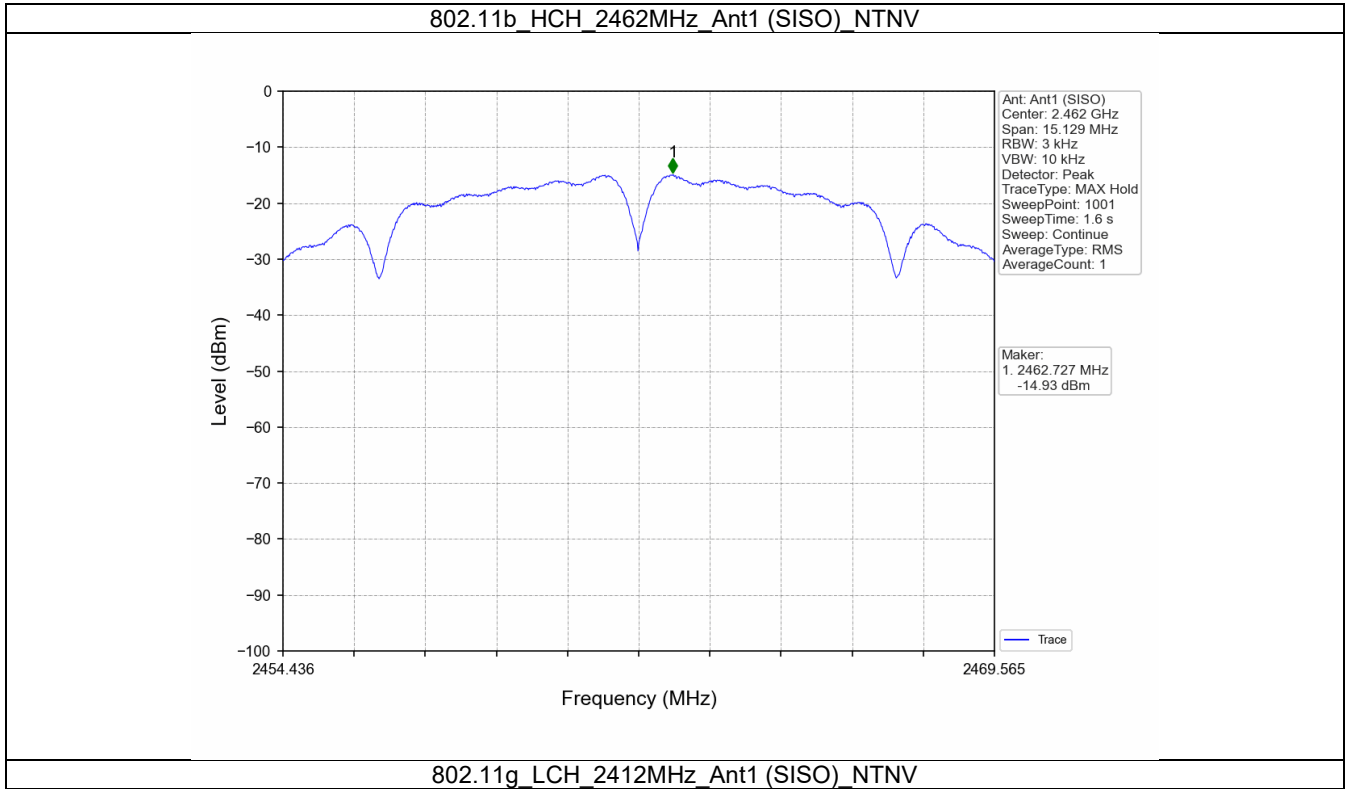
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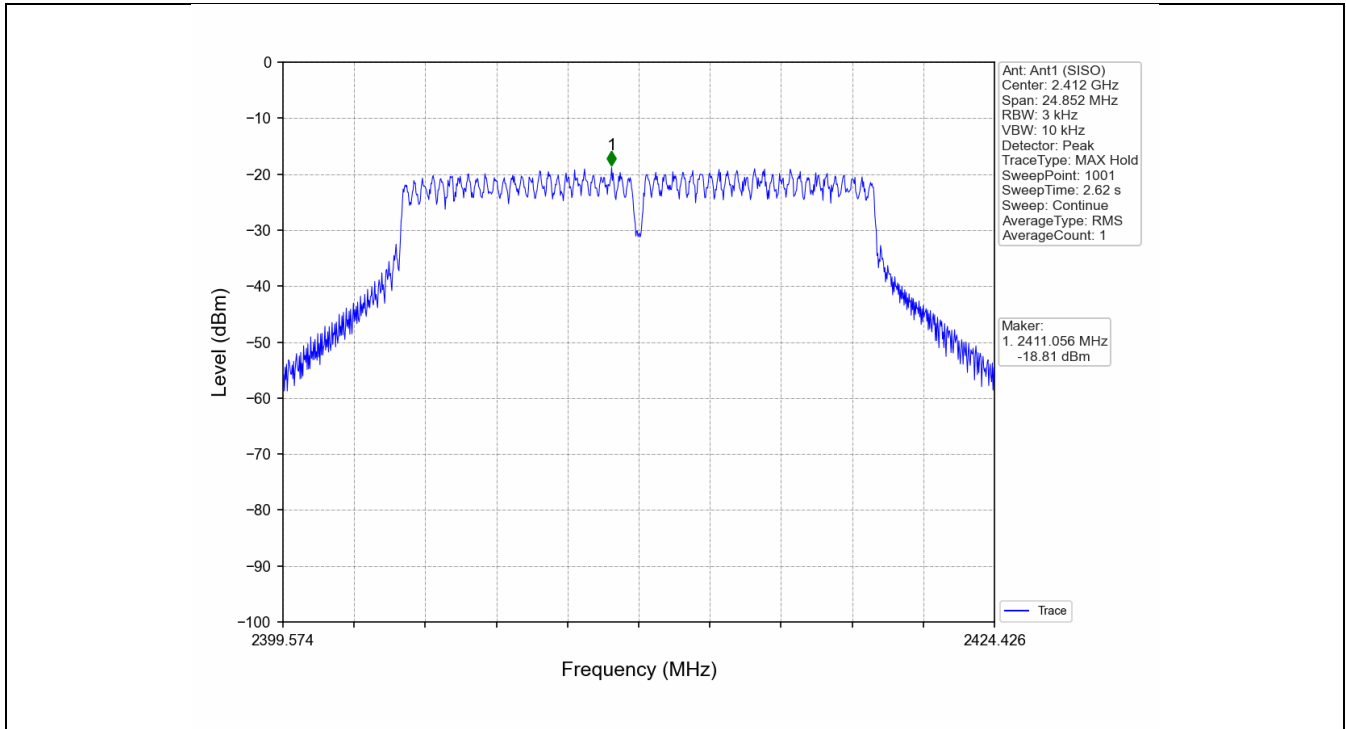
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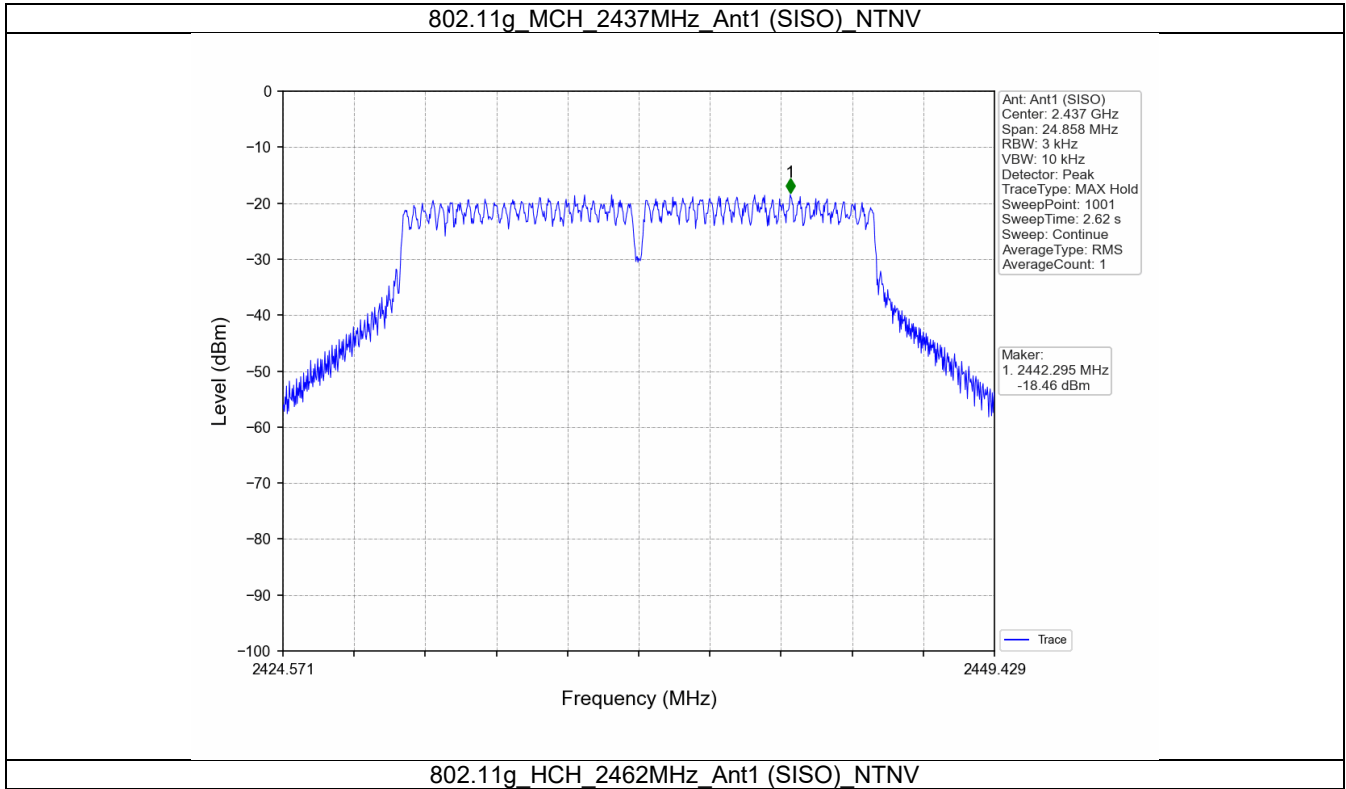
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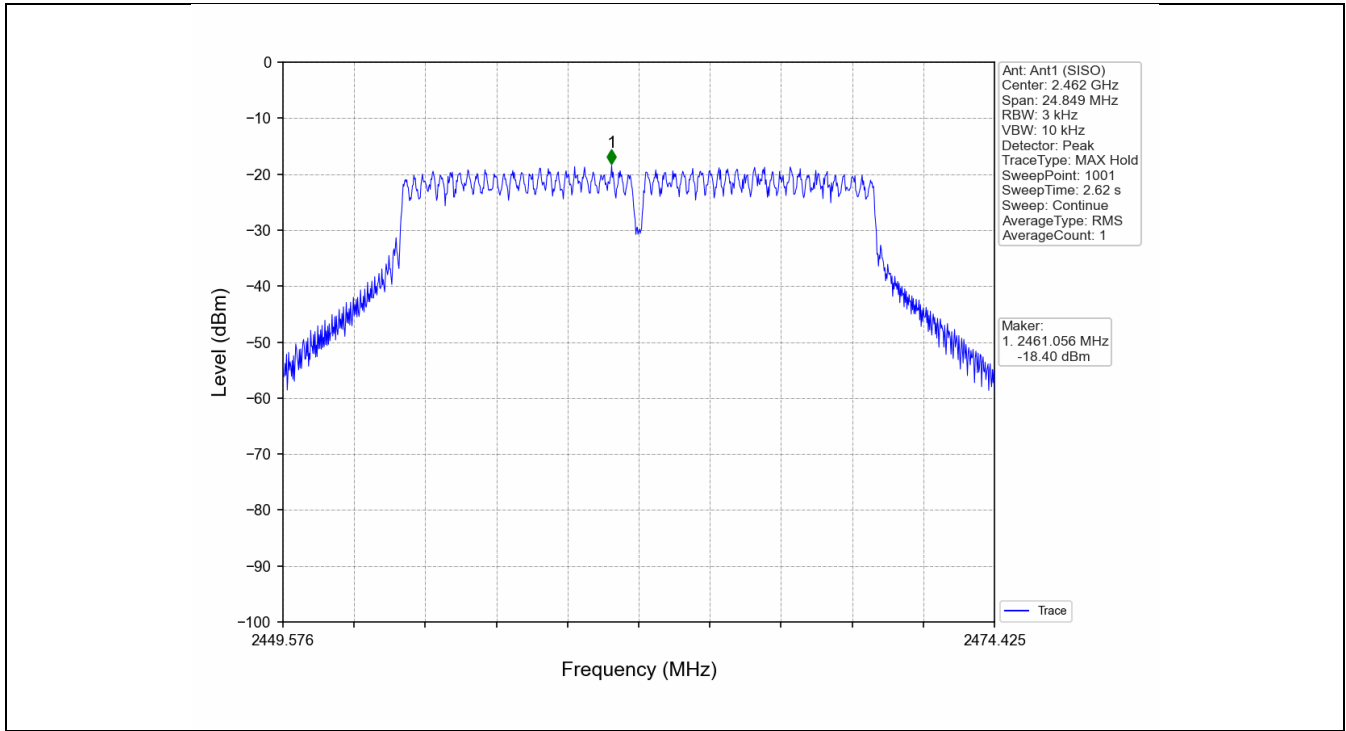
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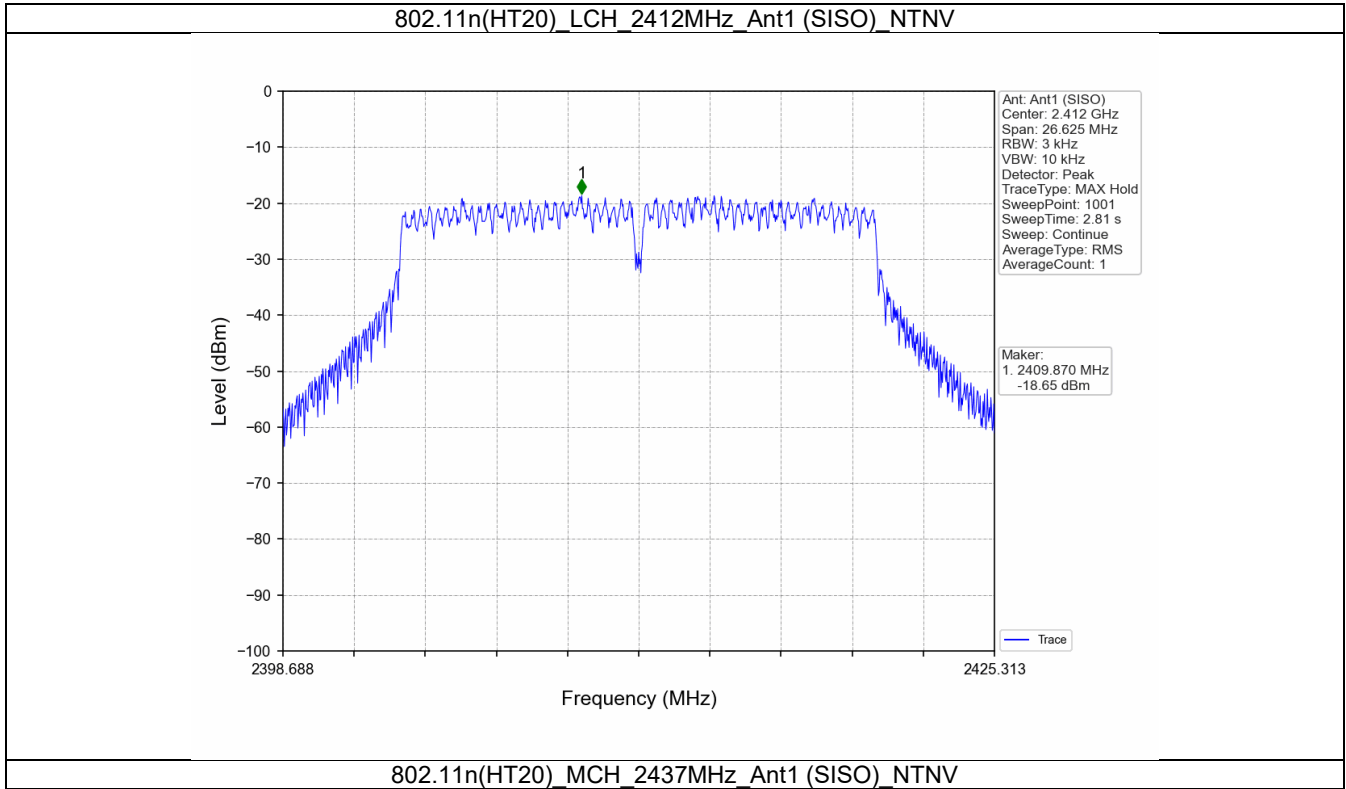
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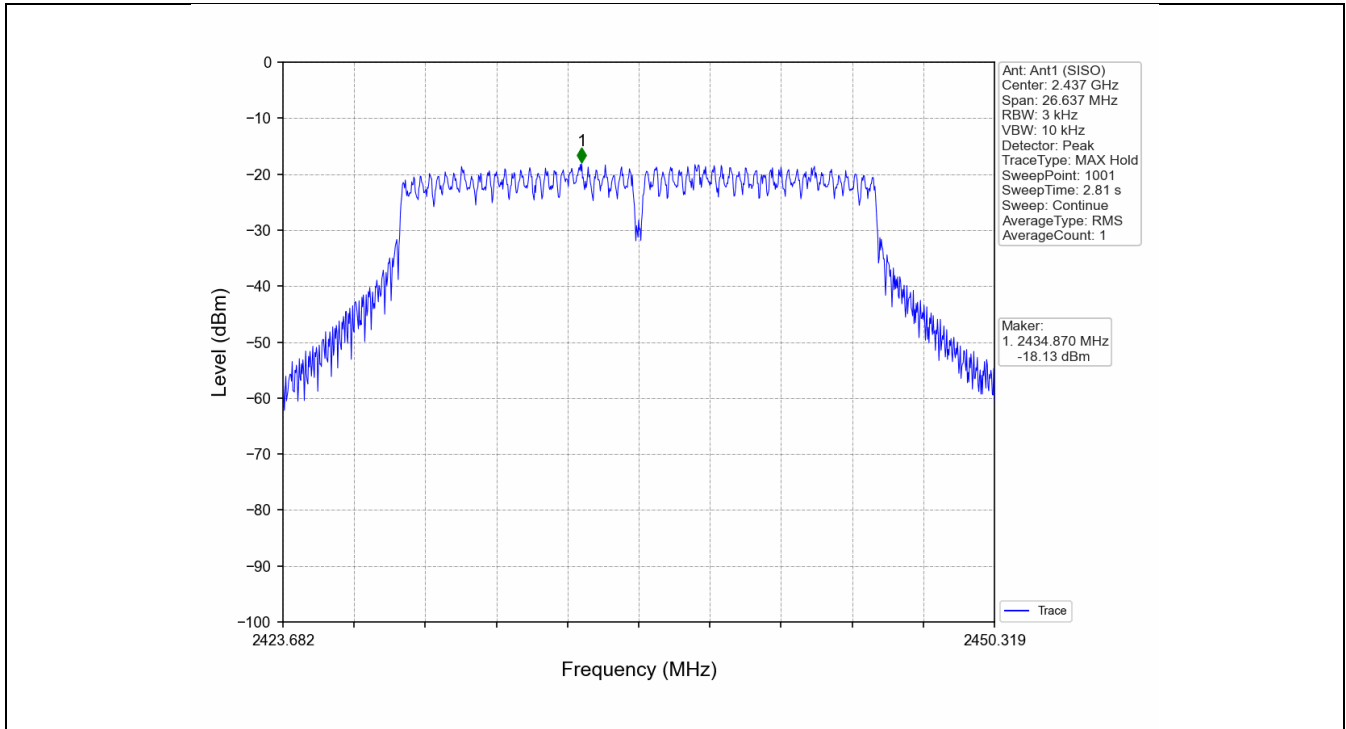
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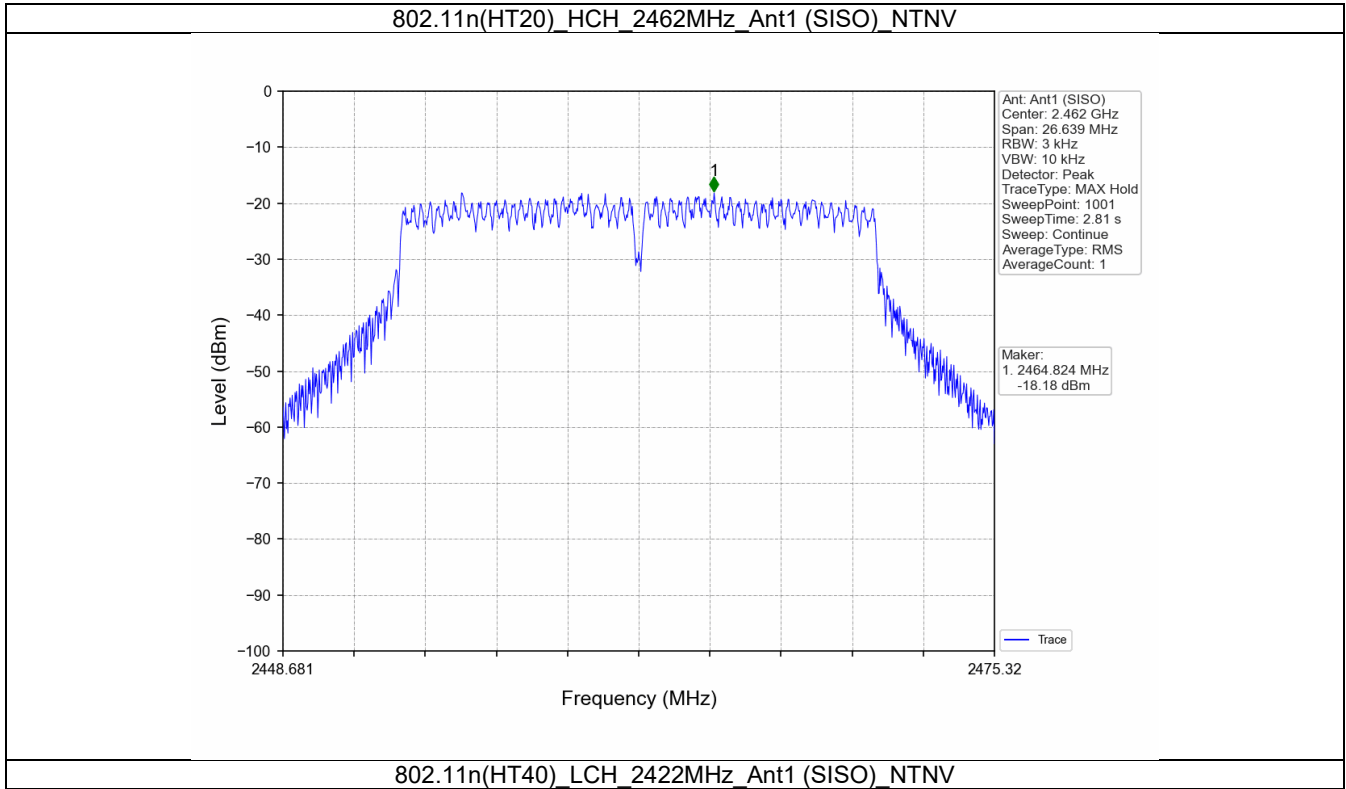
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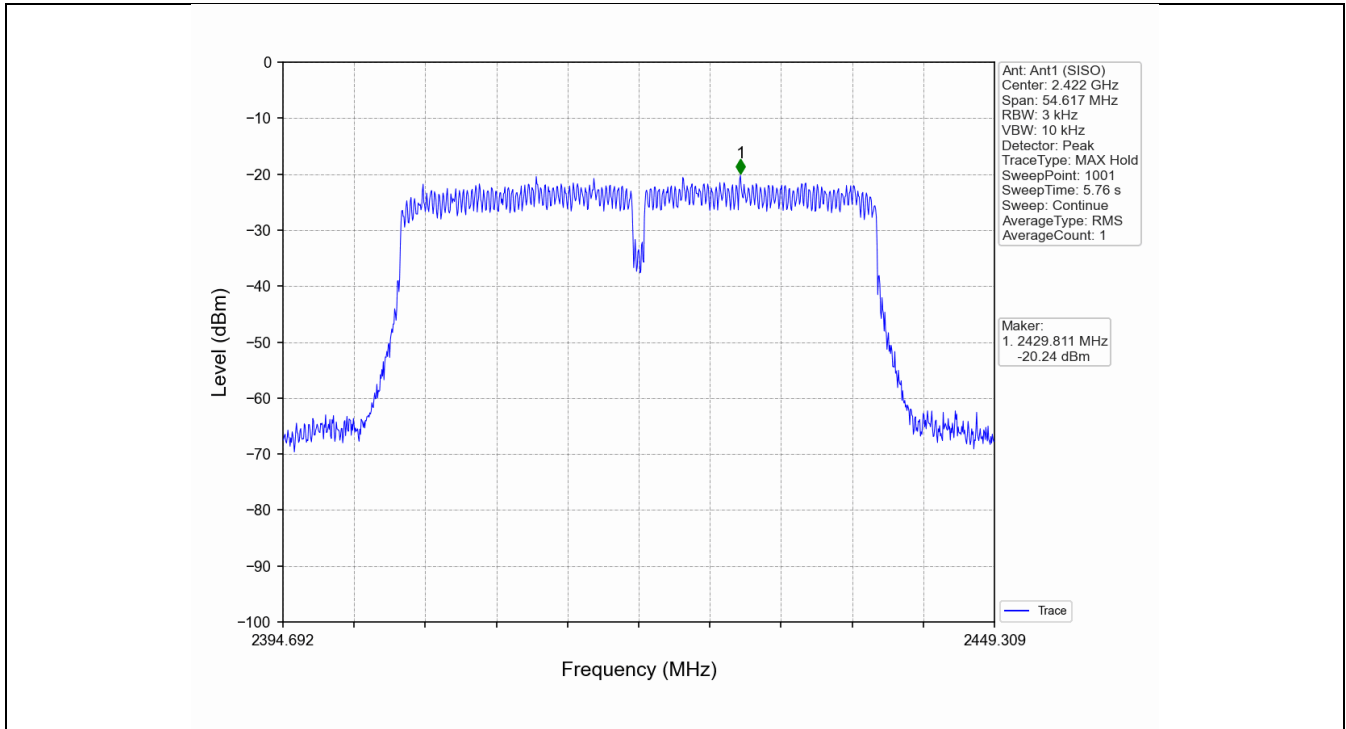
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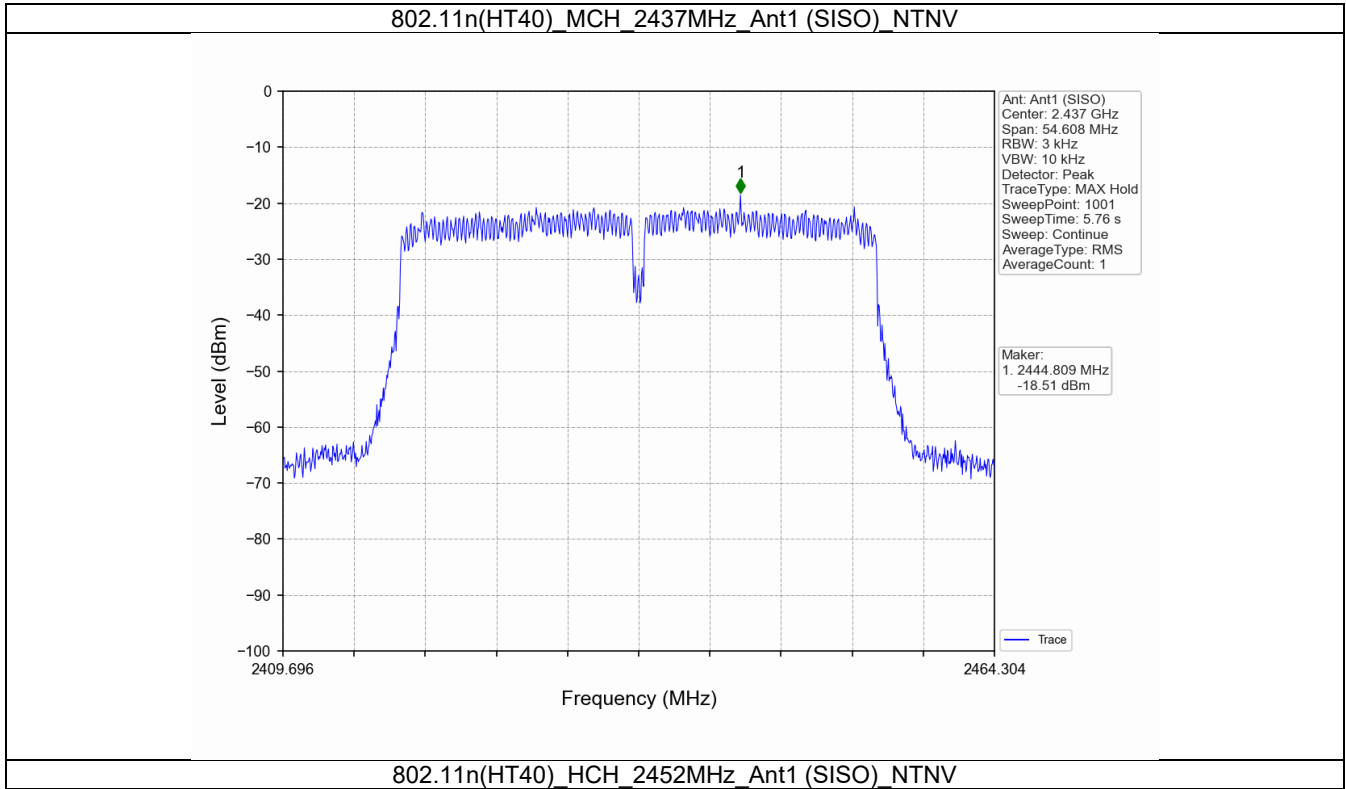
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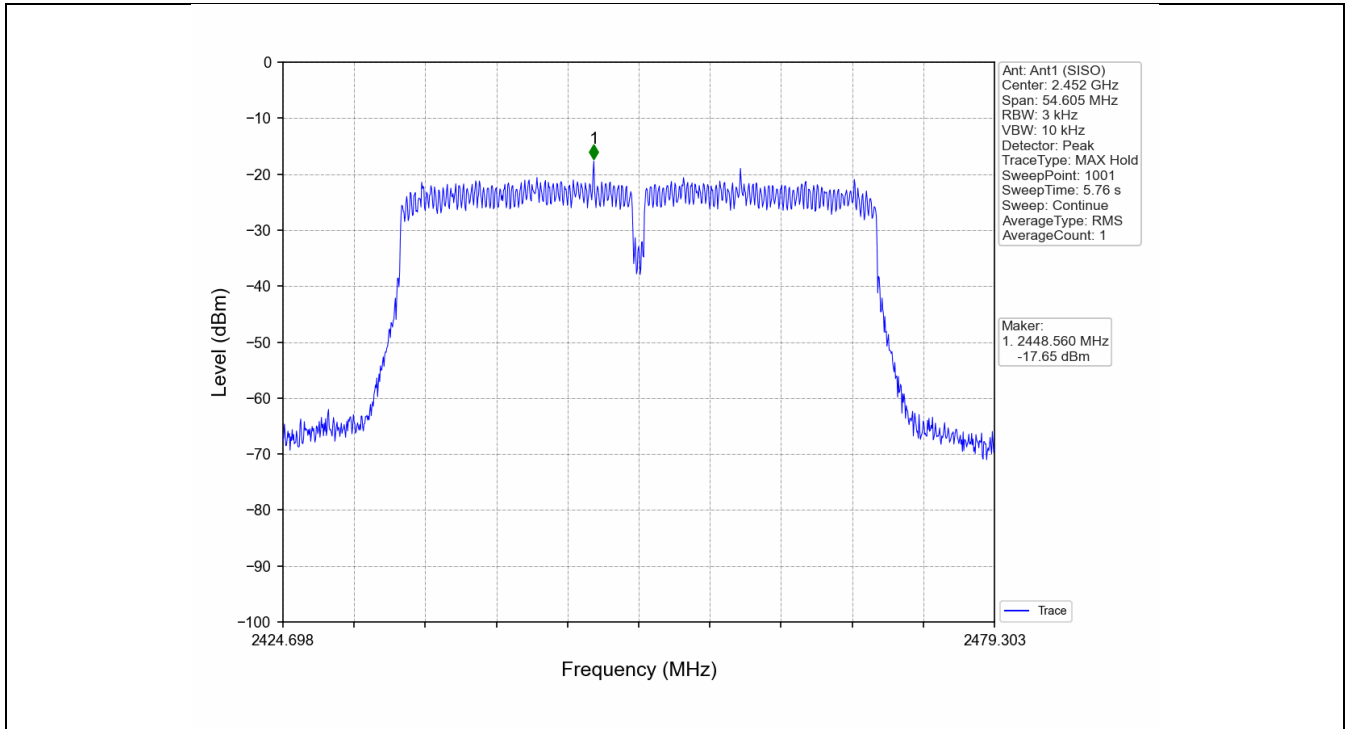
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	4.62
		2437	1	5.03
		2462	1	4.78
802.11g	SISO	2412	1	-4.77
		2437	1	-4.26
		2462	1	-4.24
802.11n (HT20)	SISO	2412	1	-4.35
		2437	1	-3.90
		2462	1	-3.88
802.11n (HT40)	SISO	2422	1	-7.50
		2437	1	-7.09
		2452	1	-6.99

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

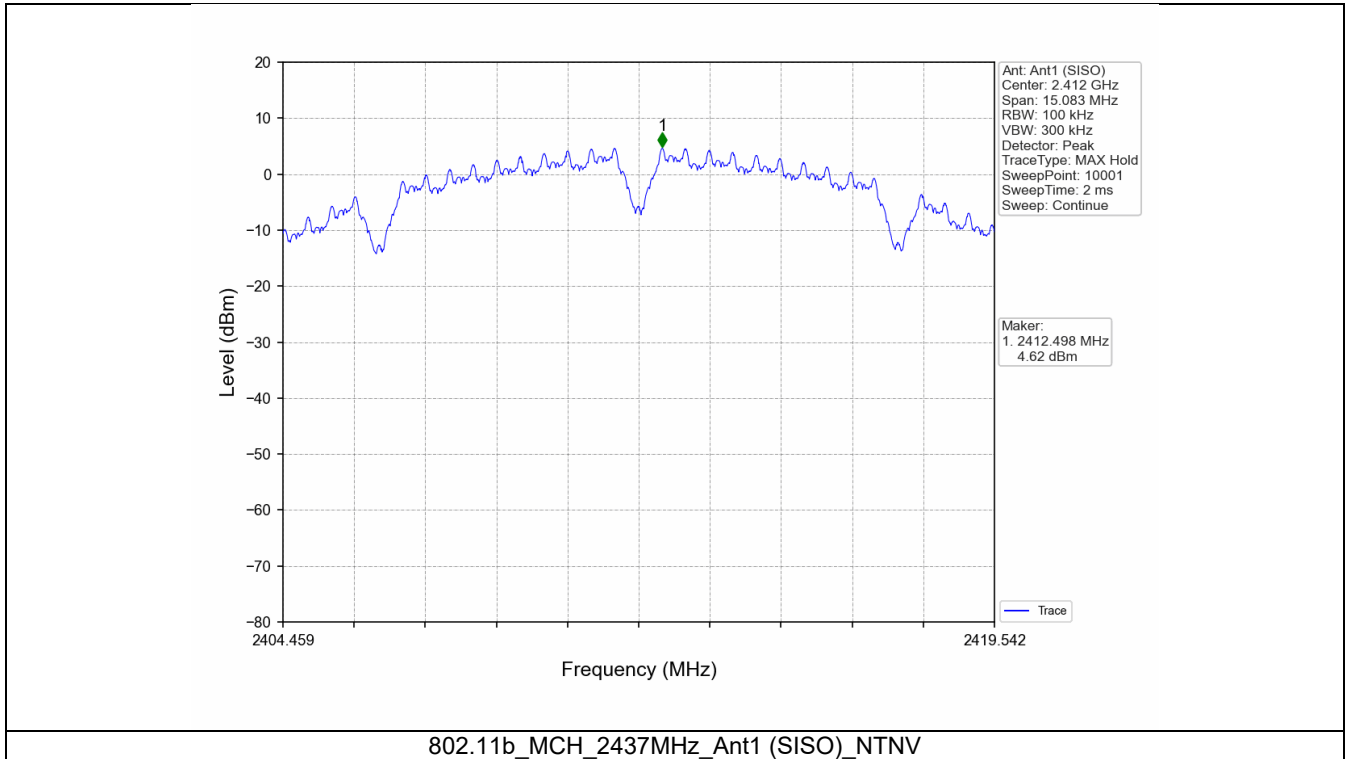
5.1.2 Test Graph

802.11b LCH 2412MHz Ant1 (SISO) NTV



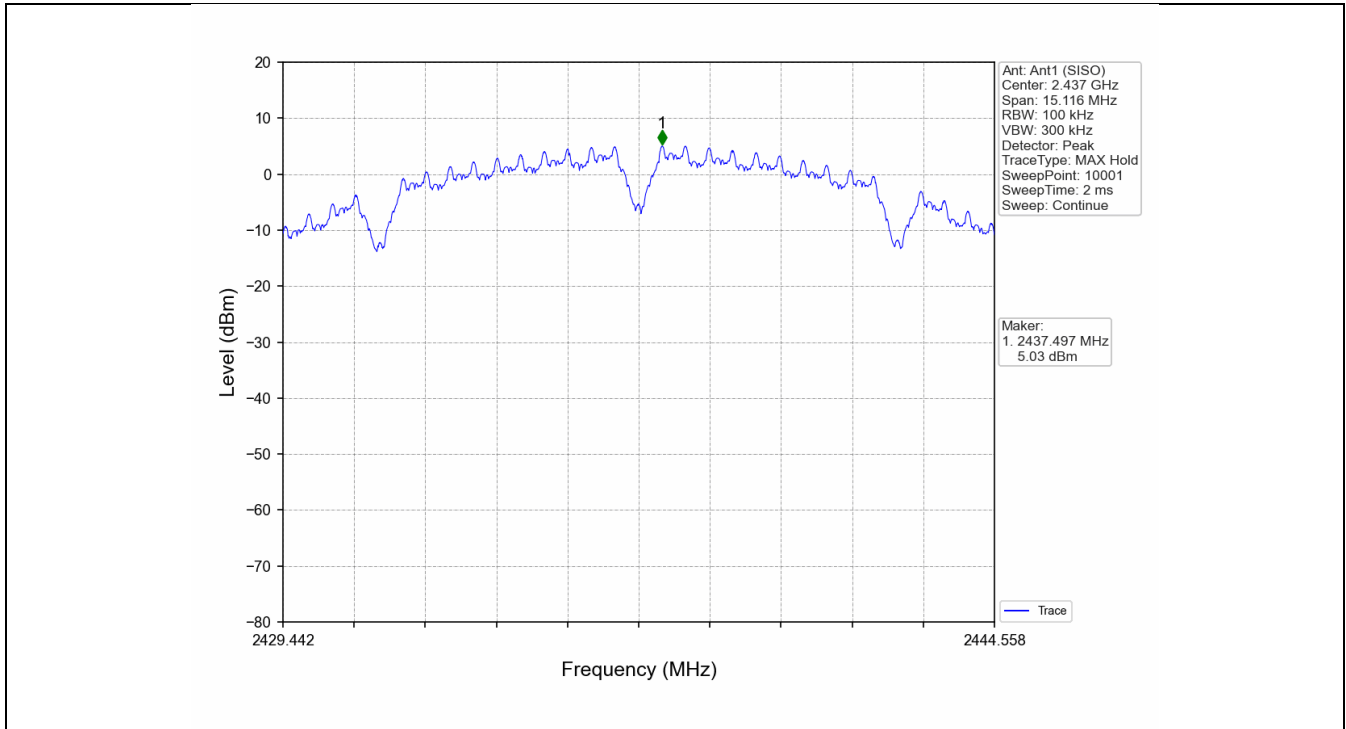
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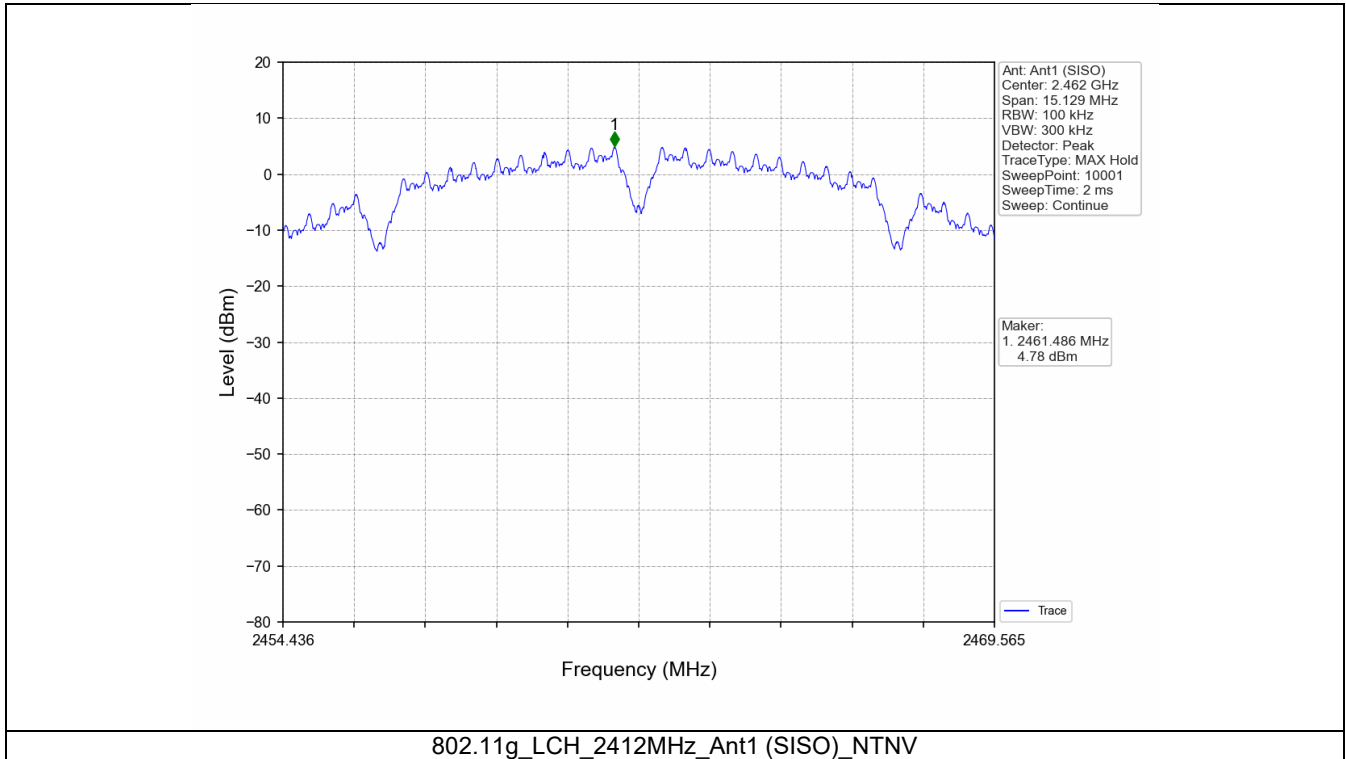


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



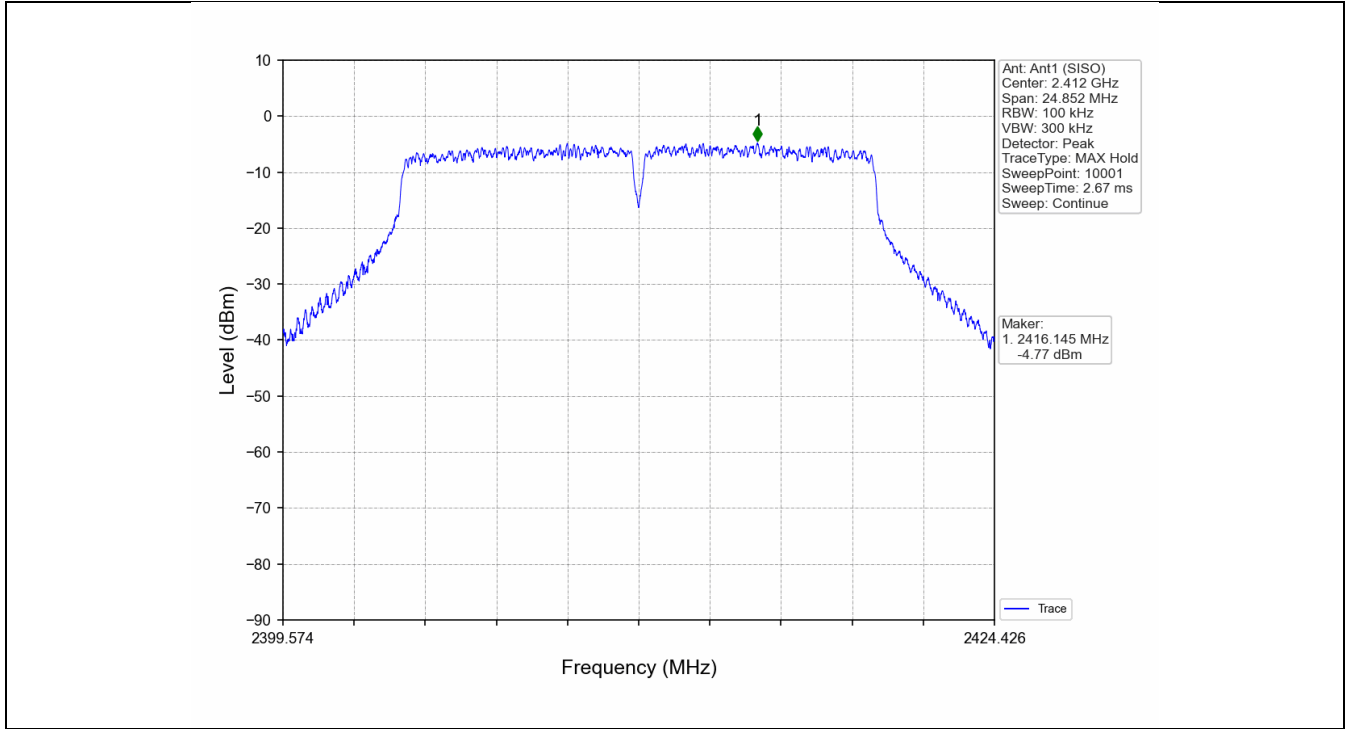
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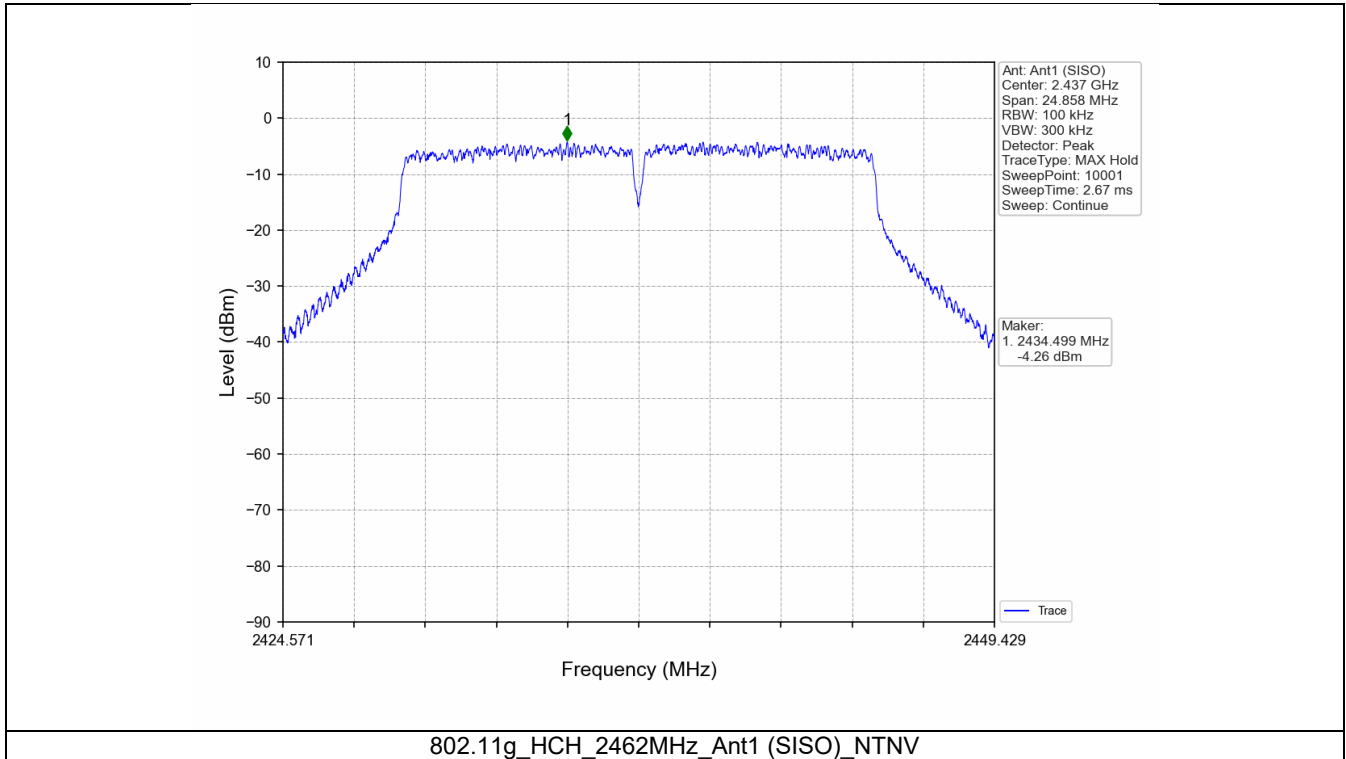


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



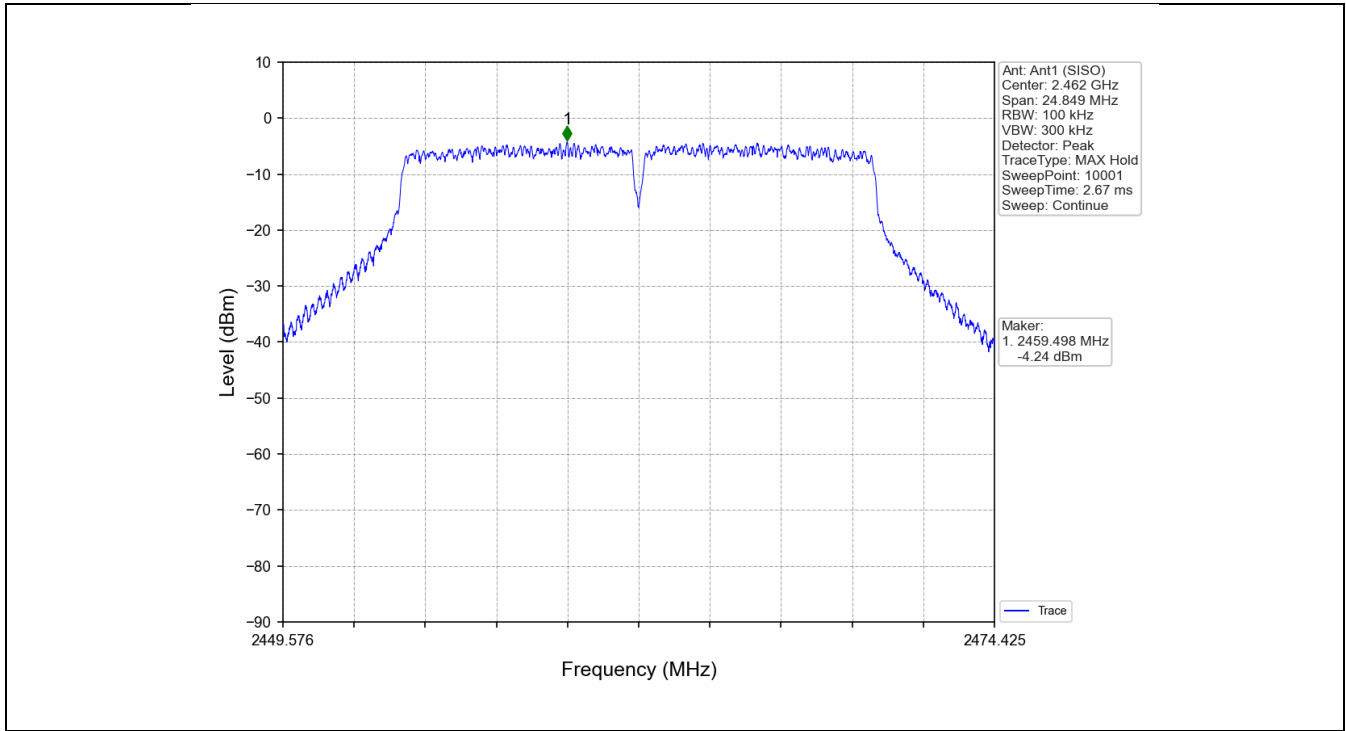
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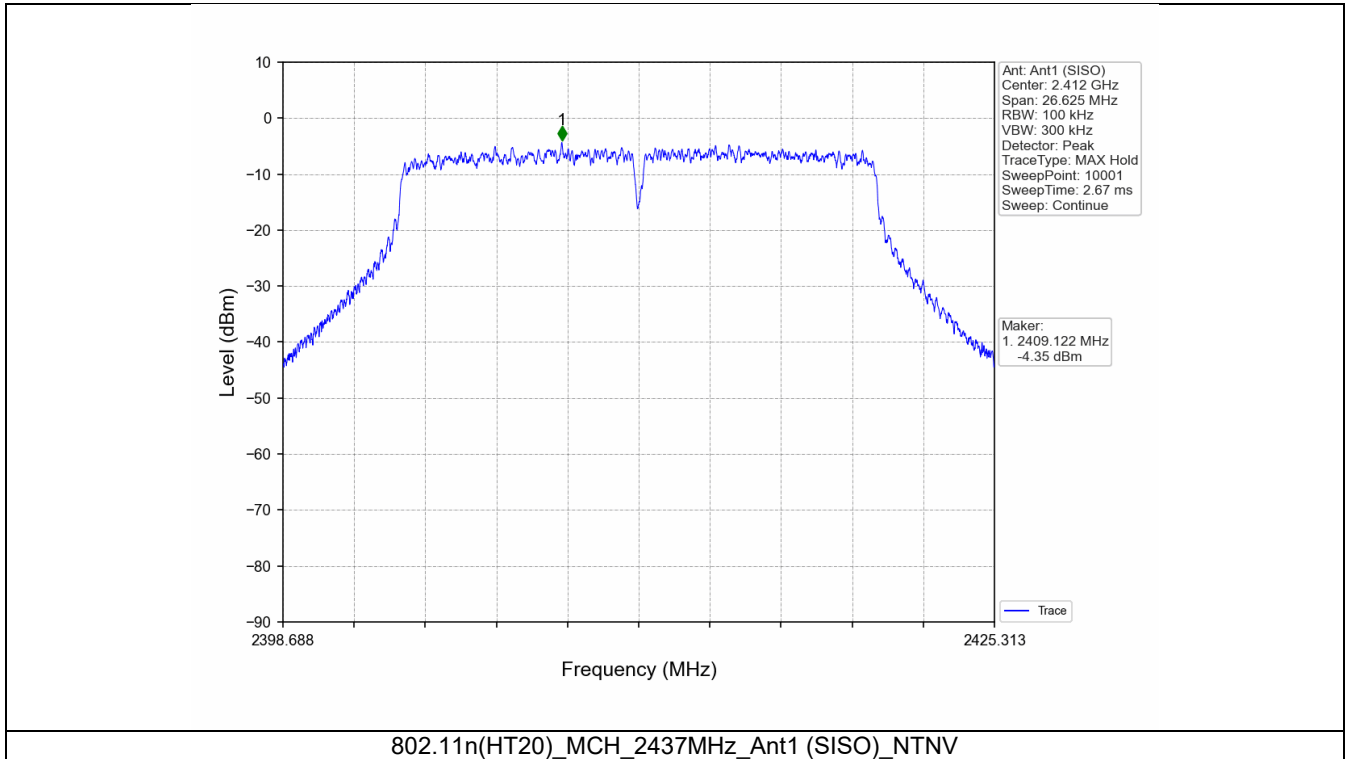


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



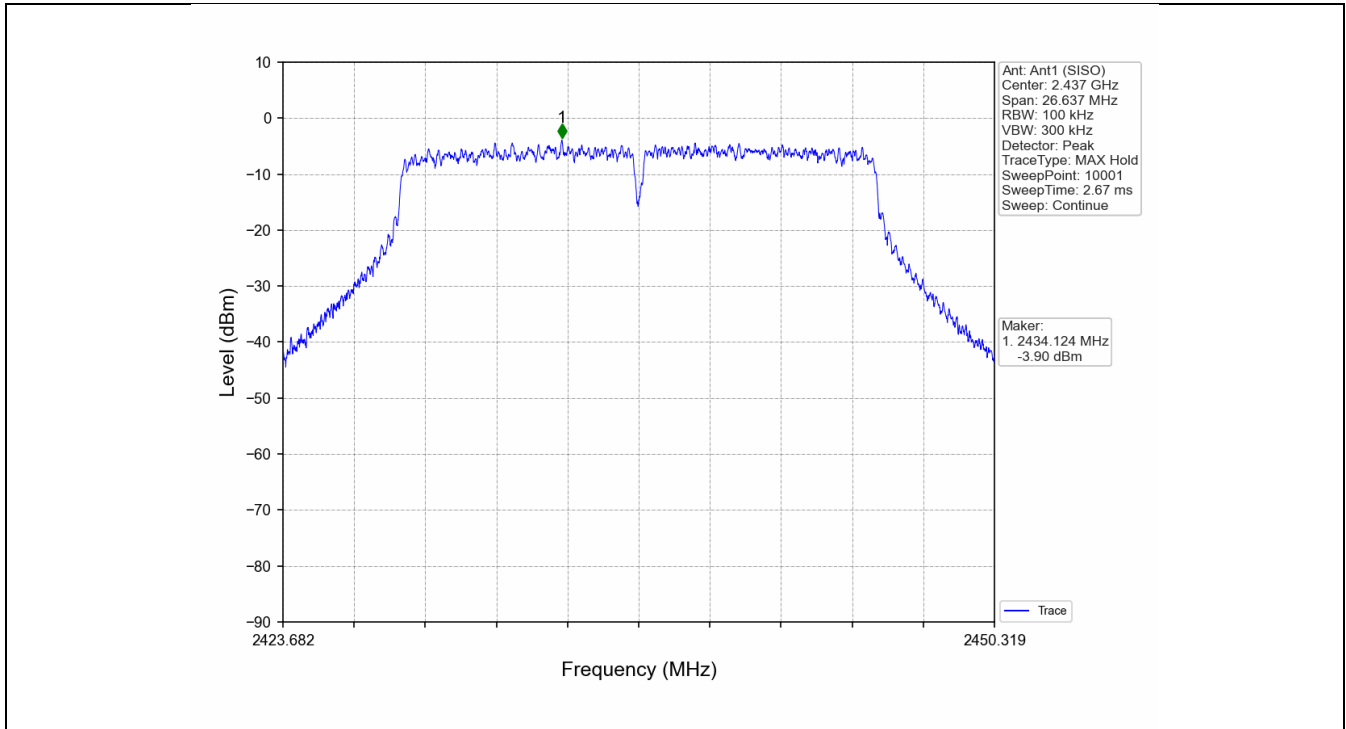
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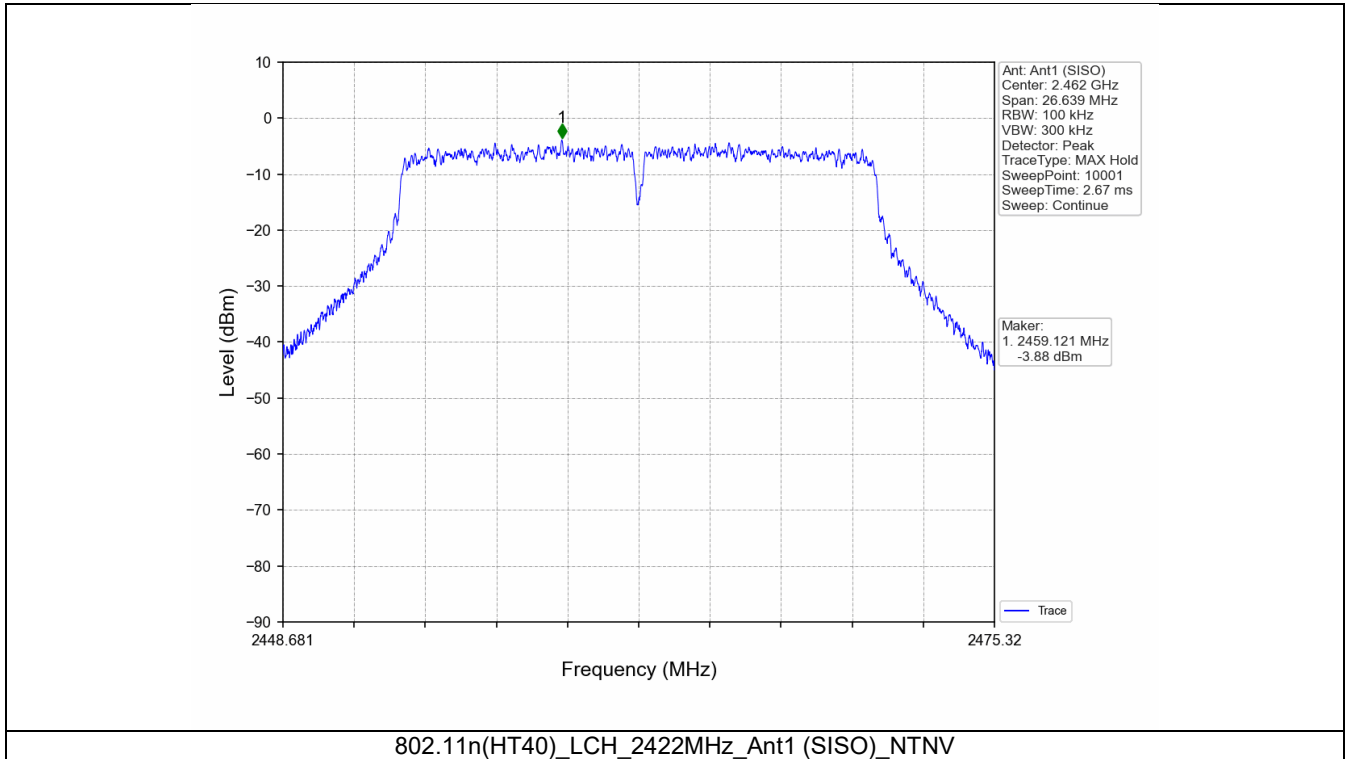


802.11n(HT20) HCH_2462MHz_Ant1 (SISO)_NTNV



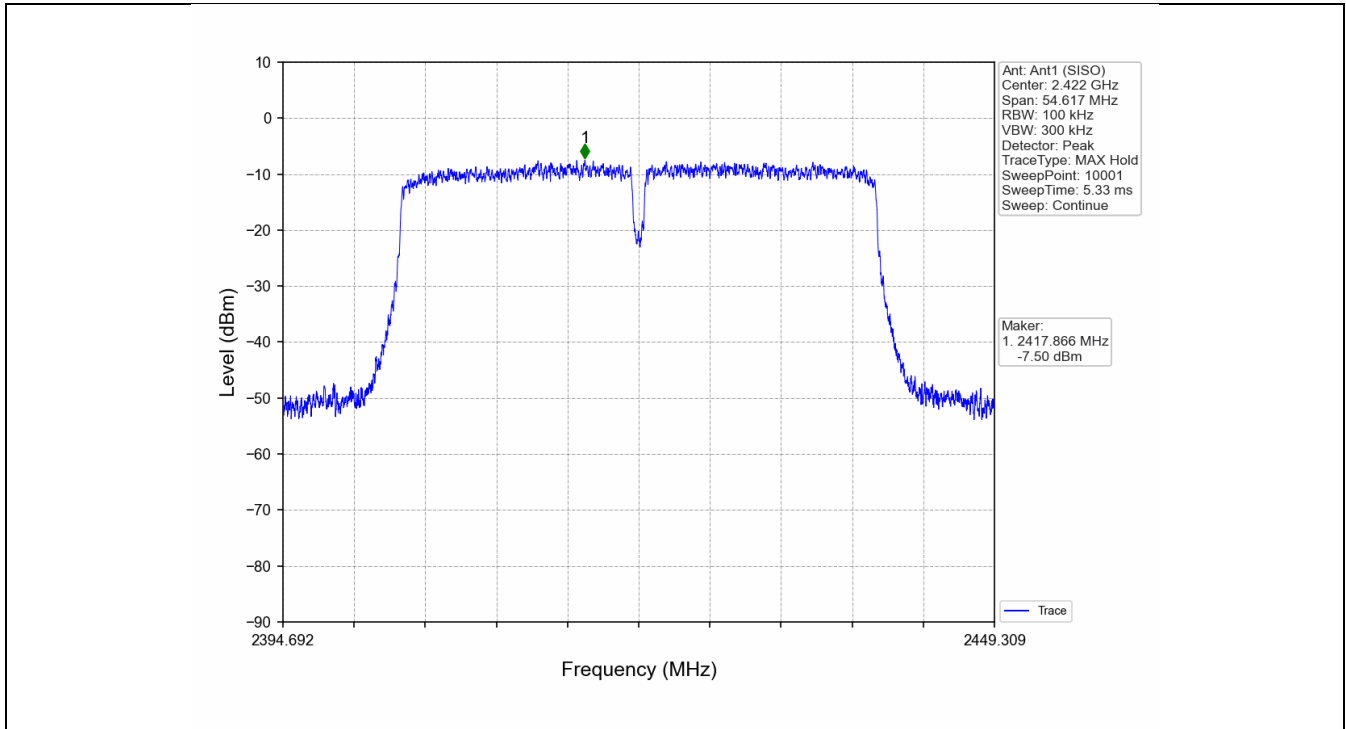
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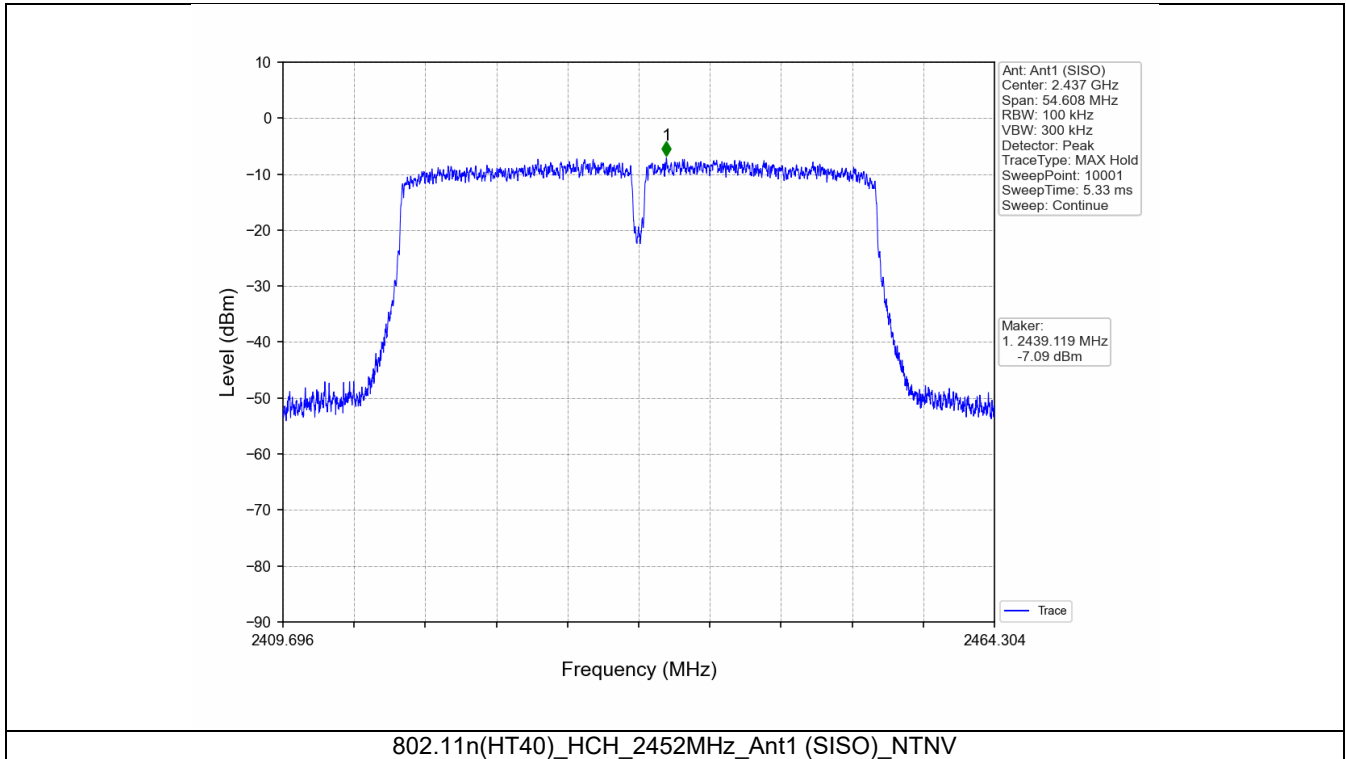


802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTV



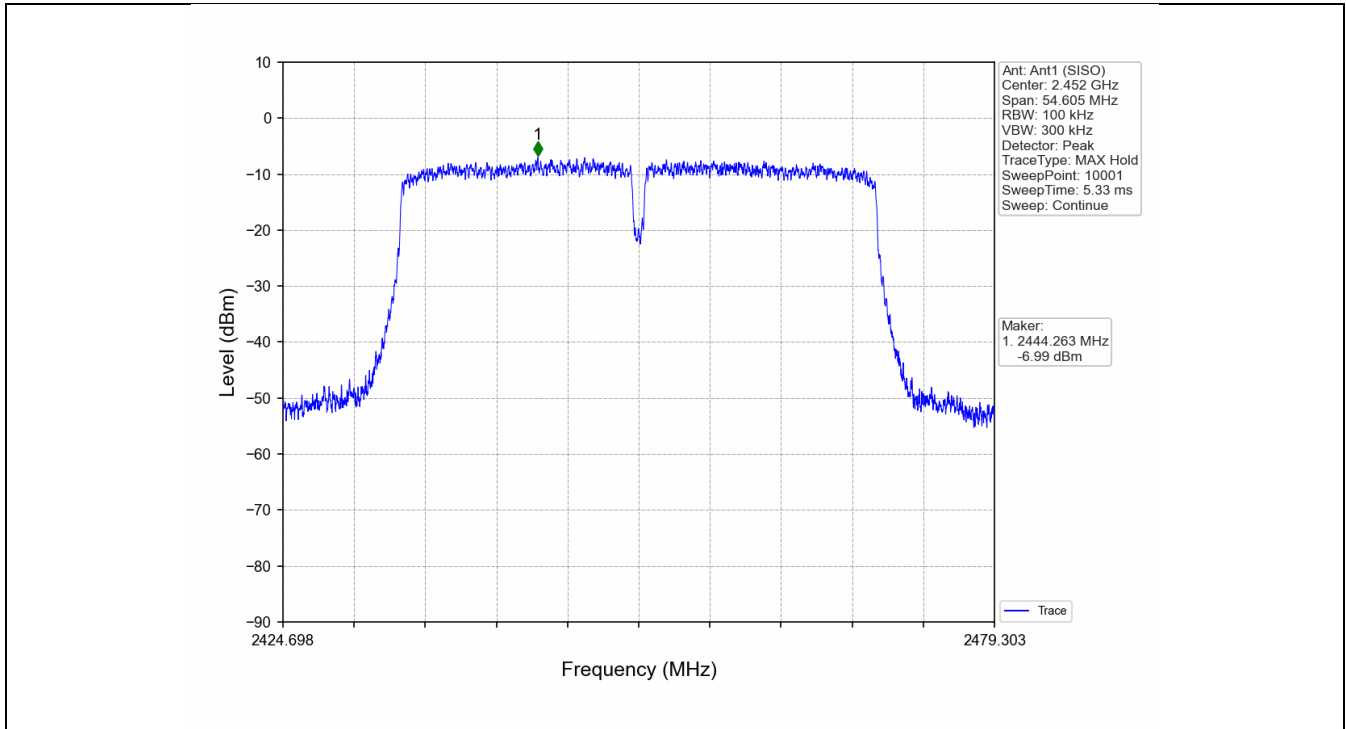
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.03	-14.97	Pass
		2437	1	5.03	-14.97	Pass
		2462	1	5.03	-14.97	Pass
802.11g	SISO	2412	1	-4.24	-24.24	Pass
		2437	1	-4.24	-24.24	Pass
		2462	1	-4.24	-24.24	Pass
802.11n (HT20)	SISO	2412	1	-3.88	-23.88	Pass
		2437	1	-3.88	-23.88	Pass
		2462	1	-3.88	-23.88	Pass
802.11n (HT40)	SISO	2422	1	-6.99	-26.99	Pass
		2437	1	-6.99	-26.99	Pass
		2452	1	-6.99	-26.99	Pass

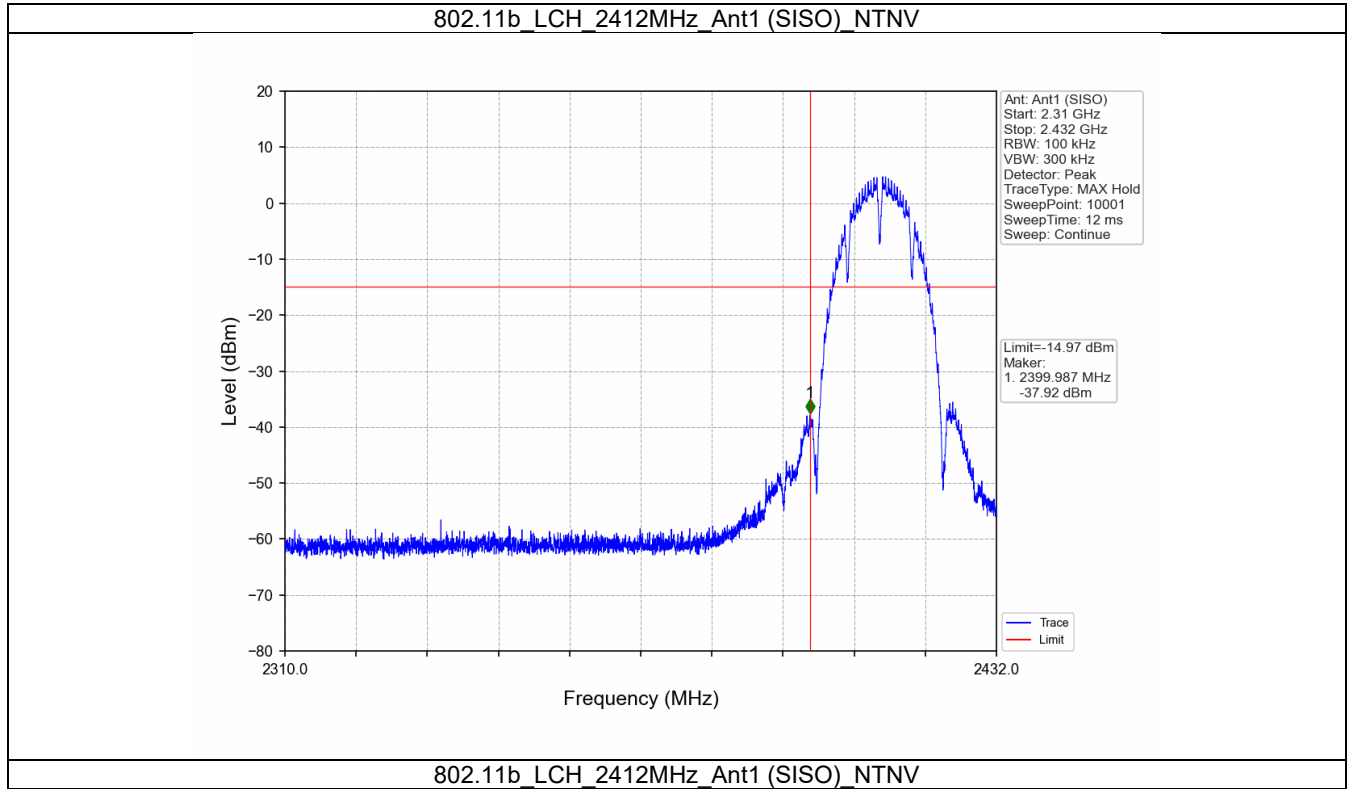
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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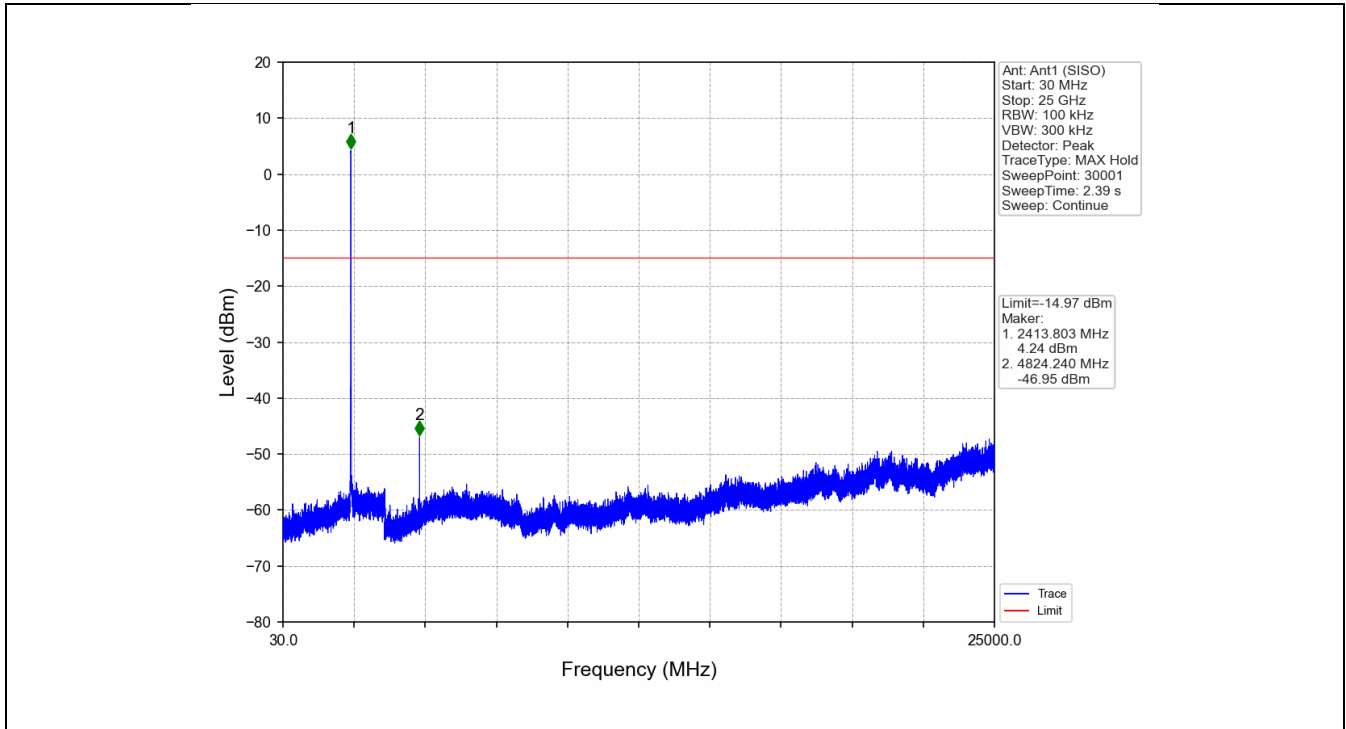
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5.2.2 Test Graph



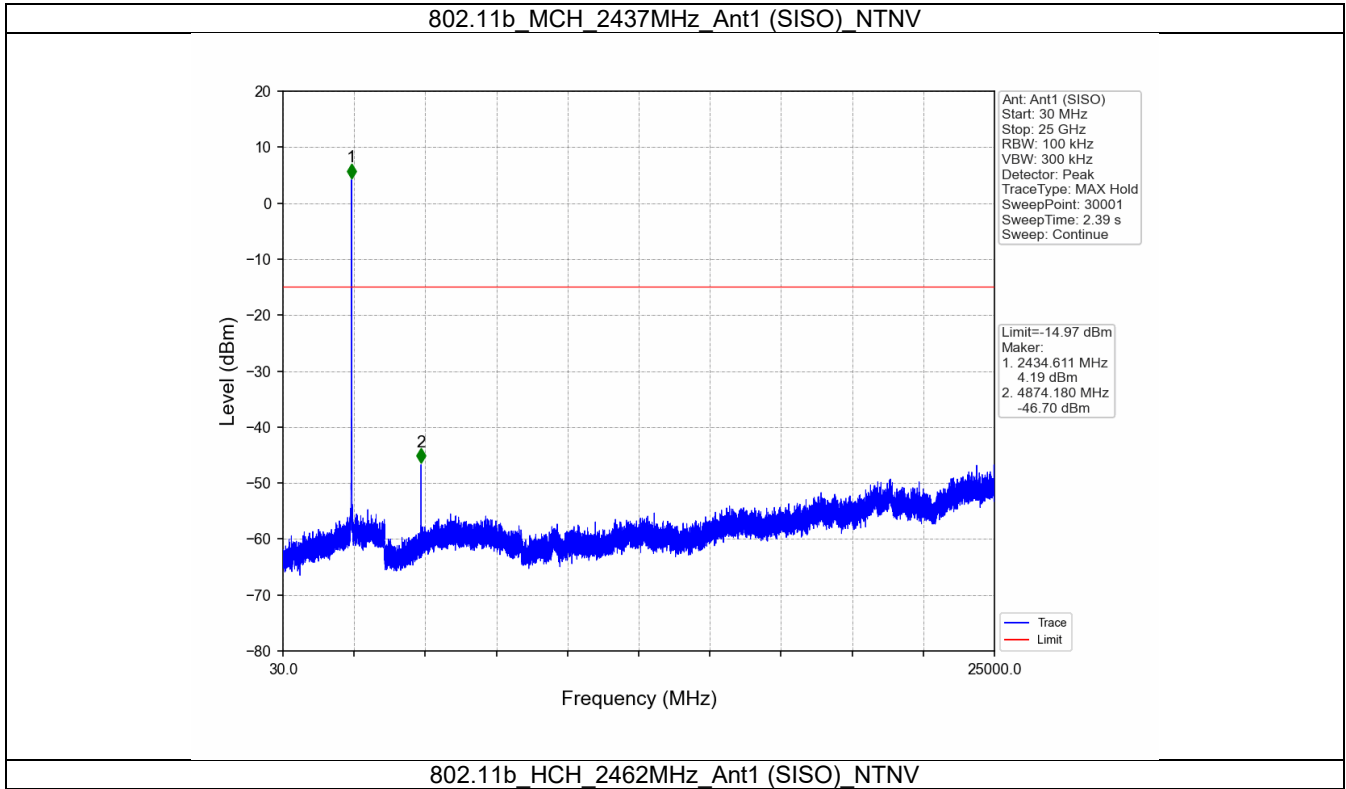
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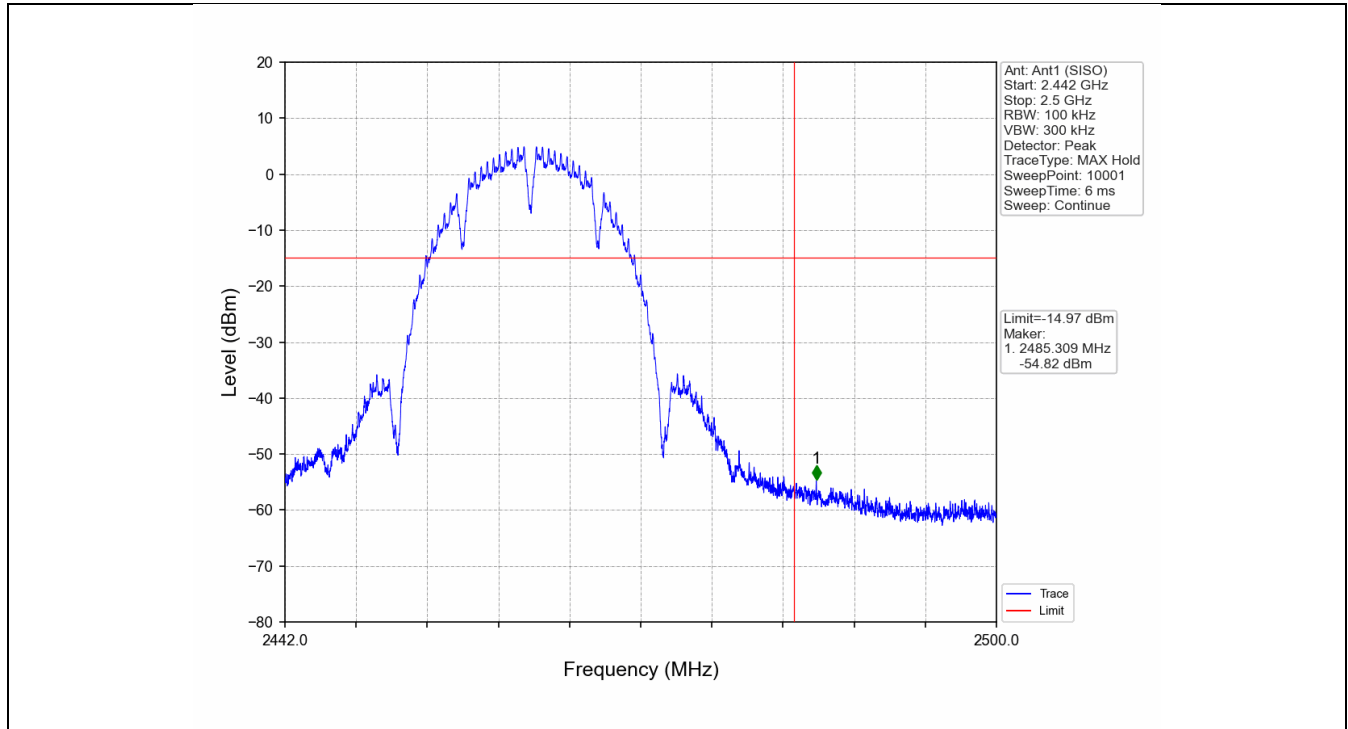
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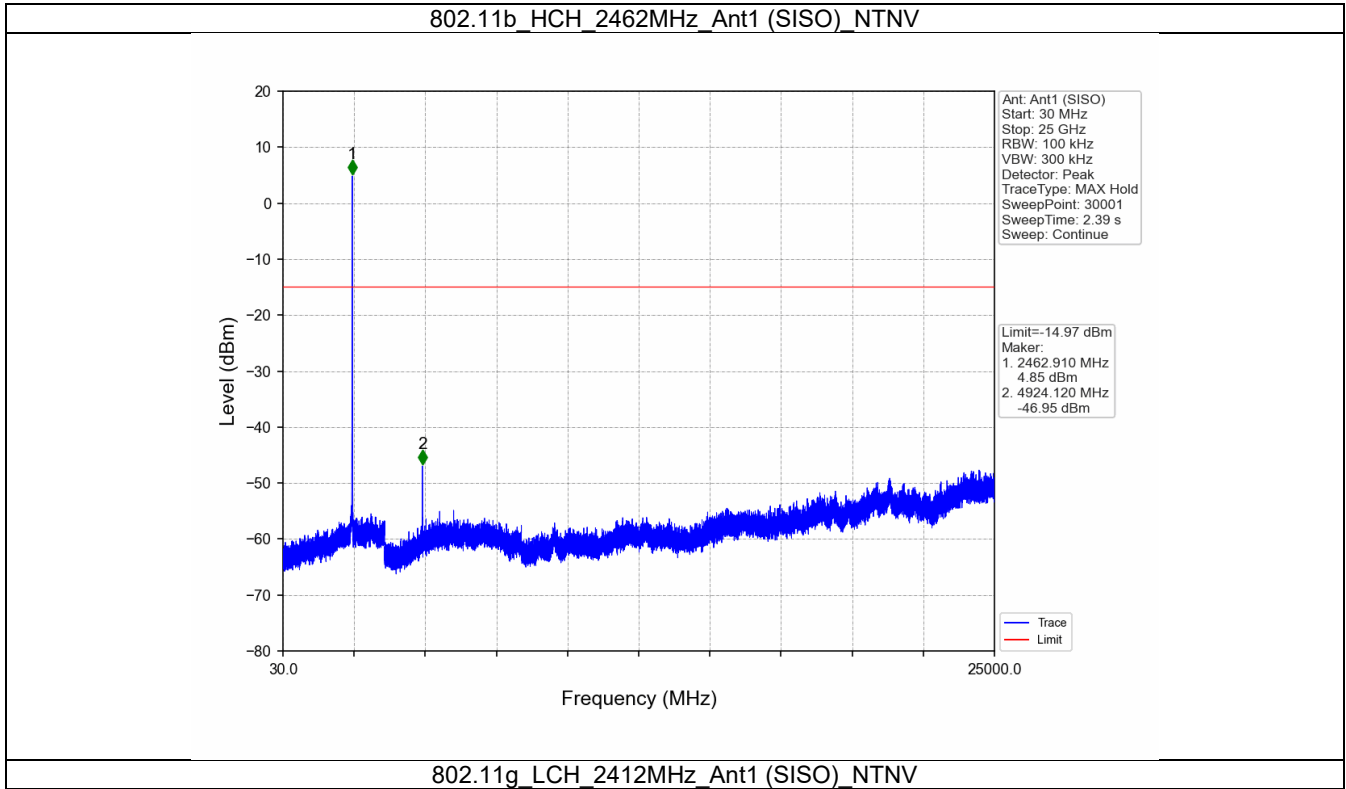
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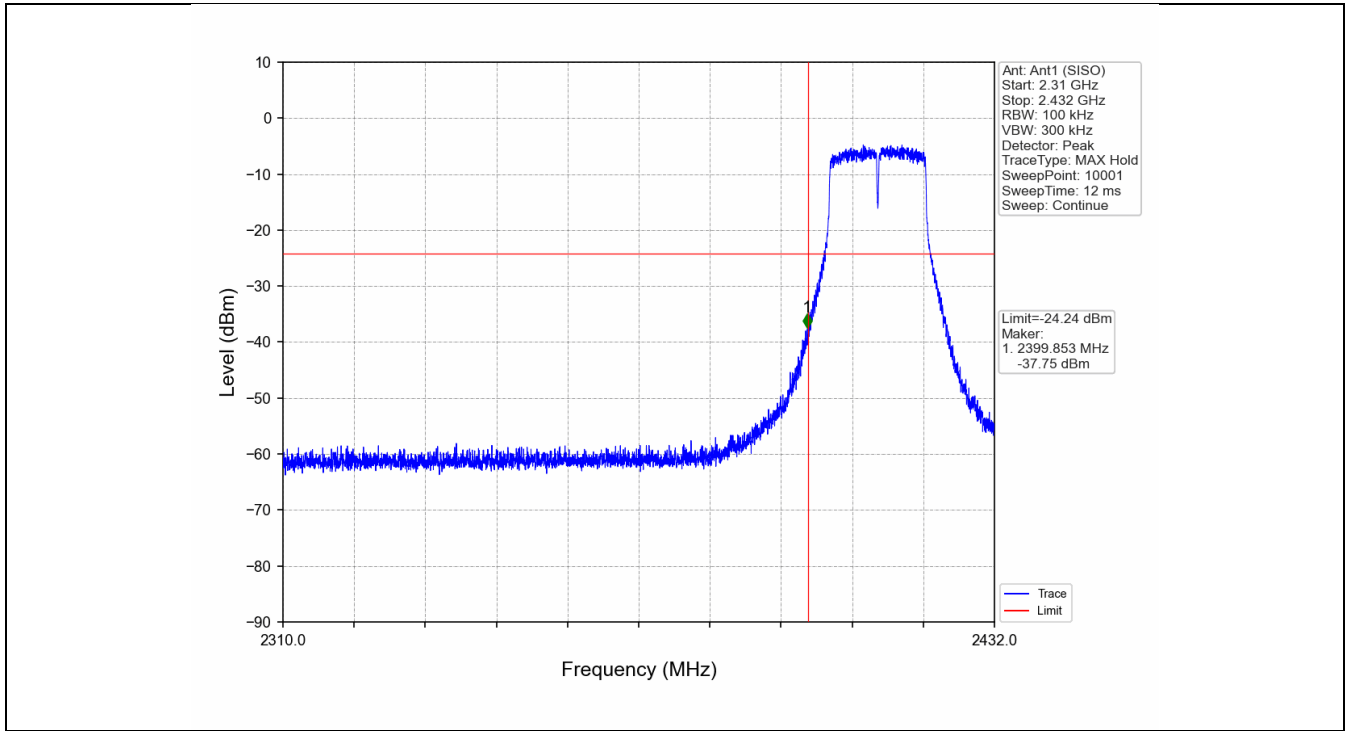
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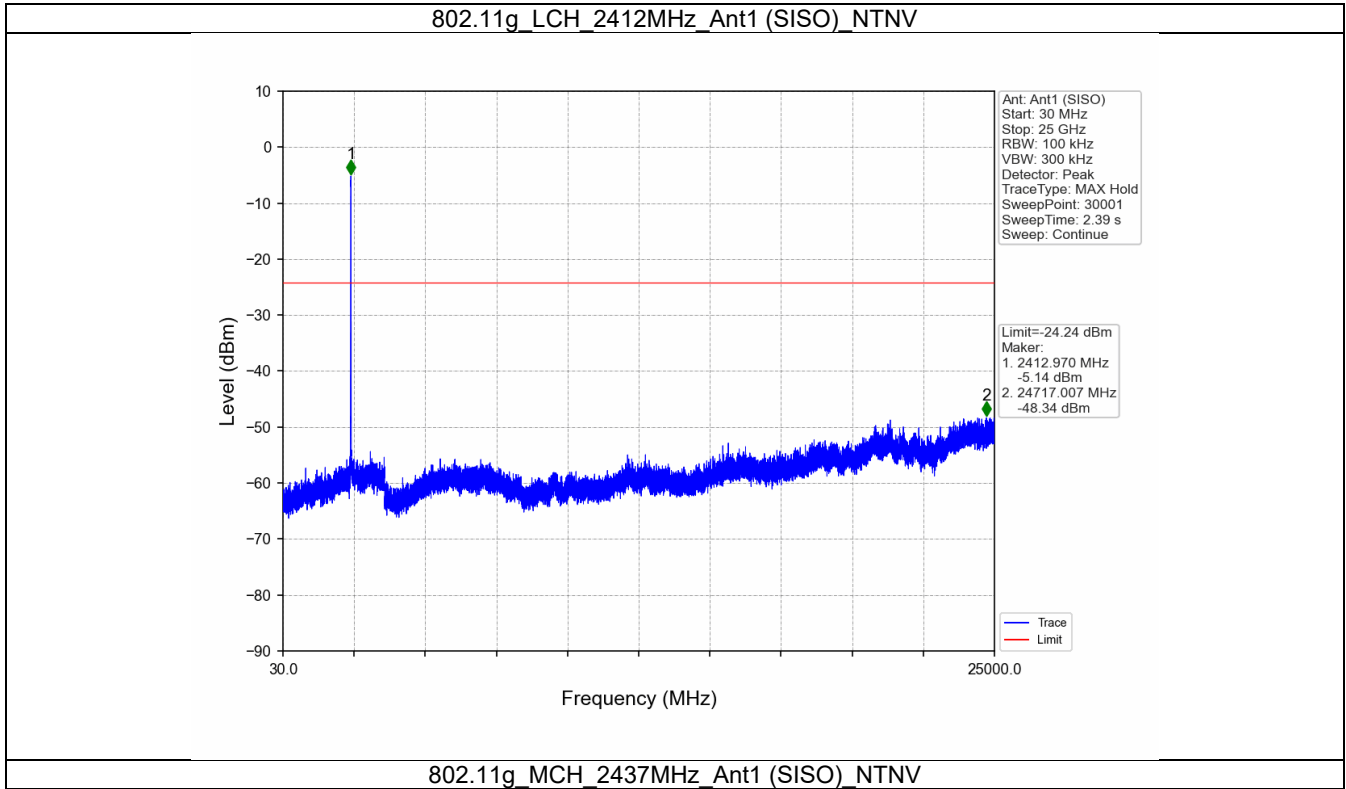
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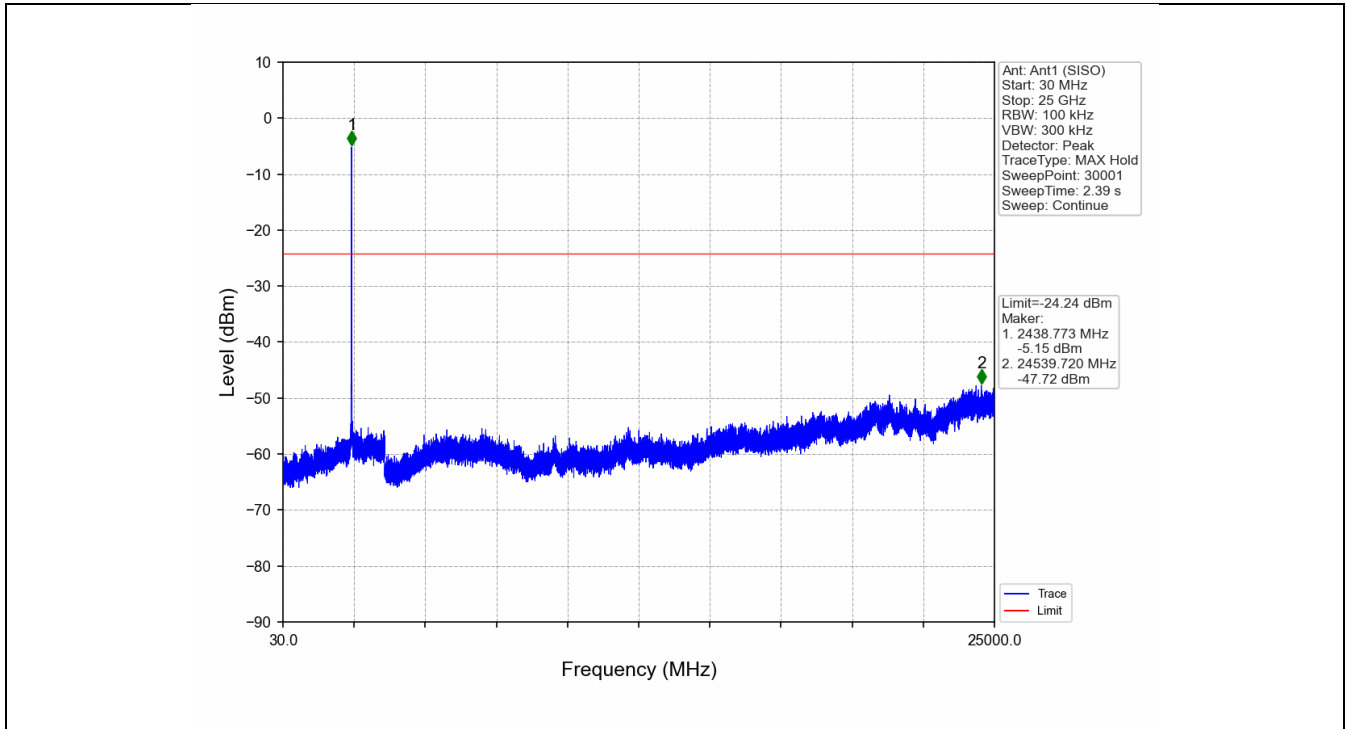
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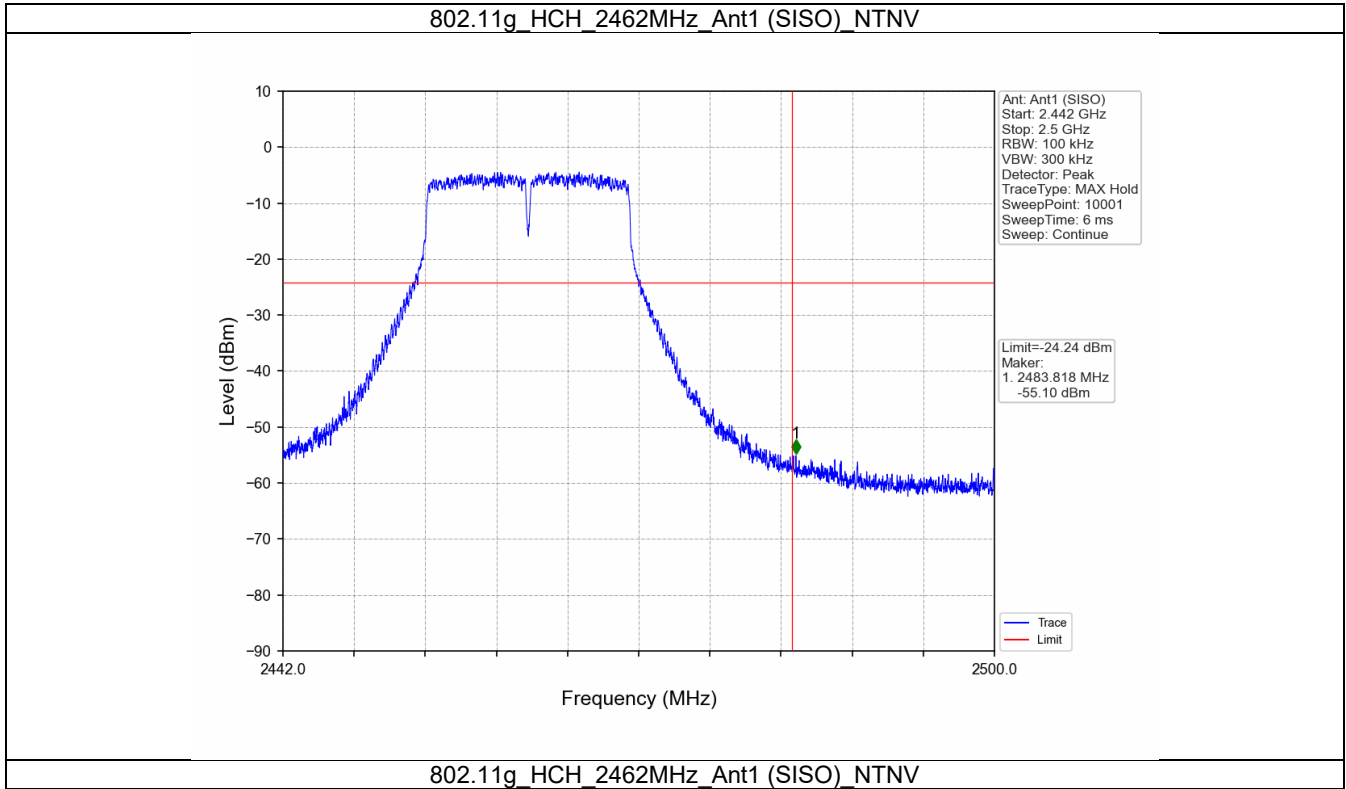
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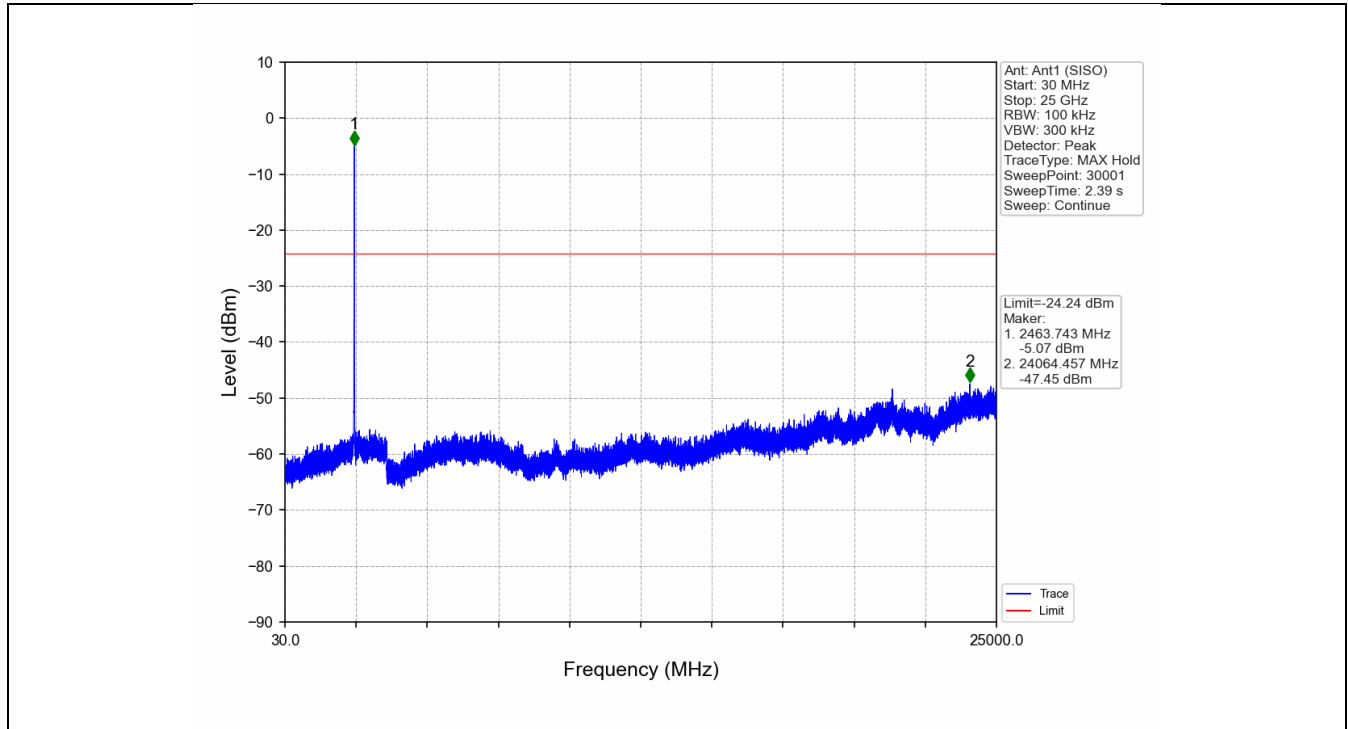
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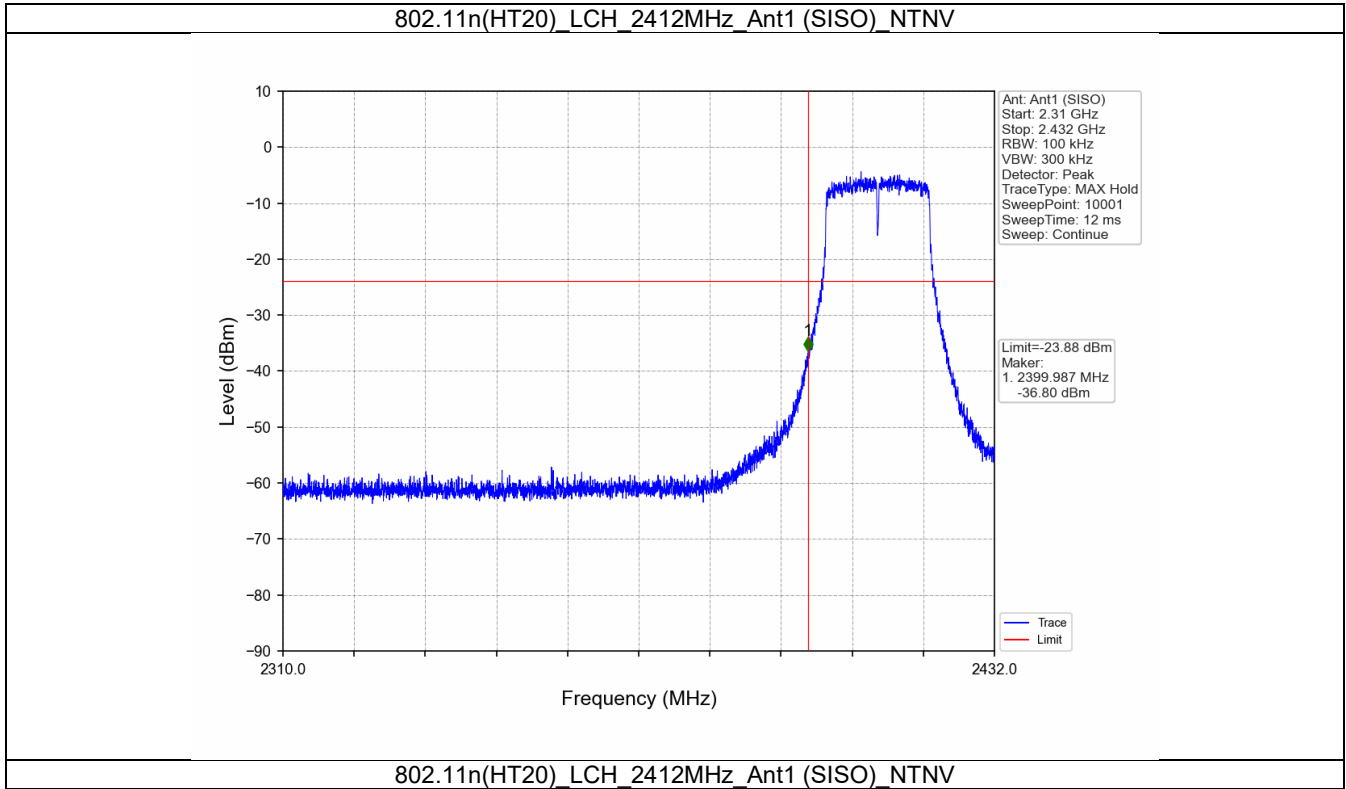
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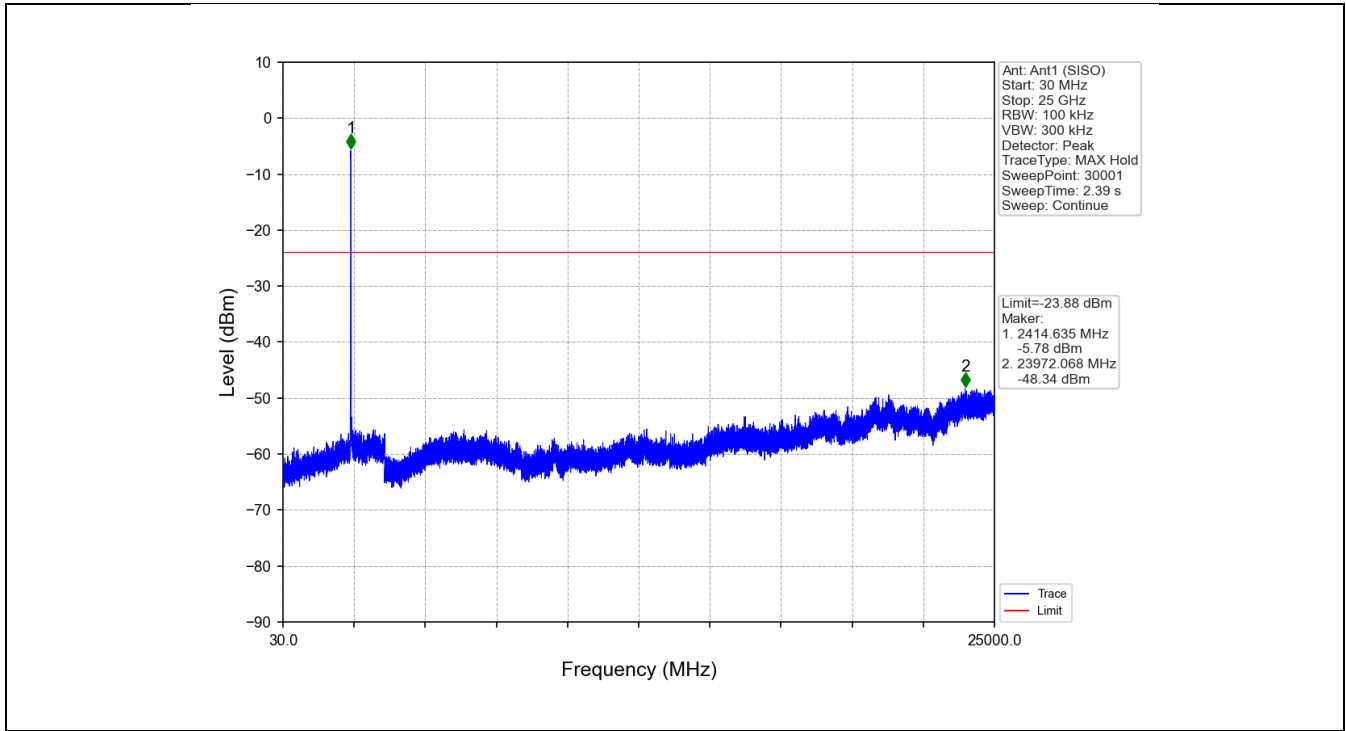
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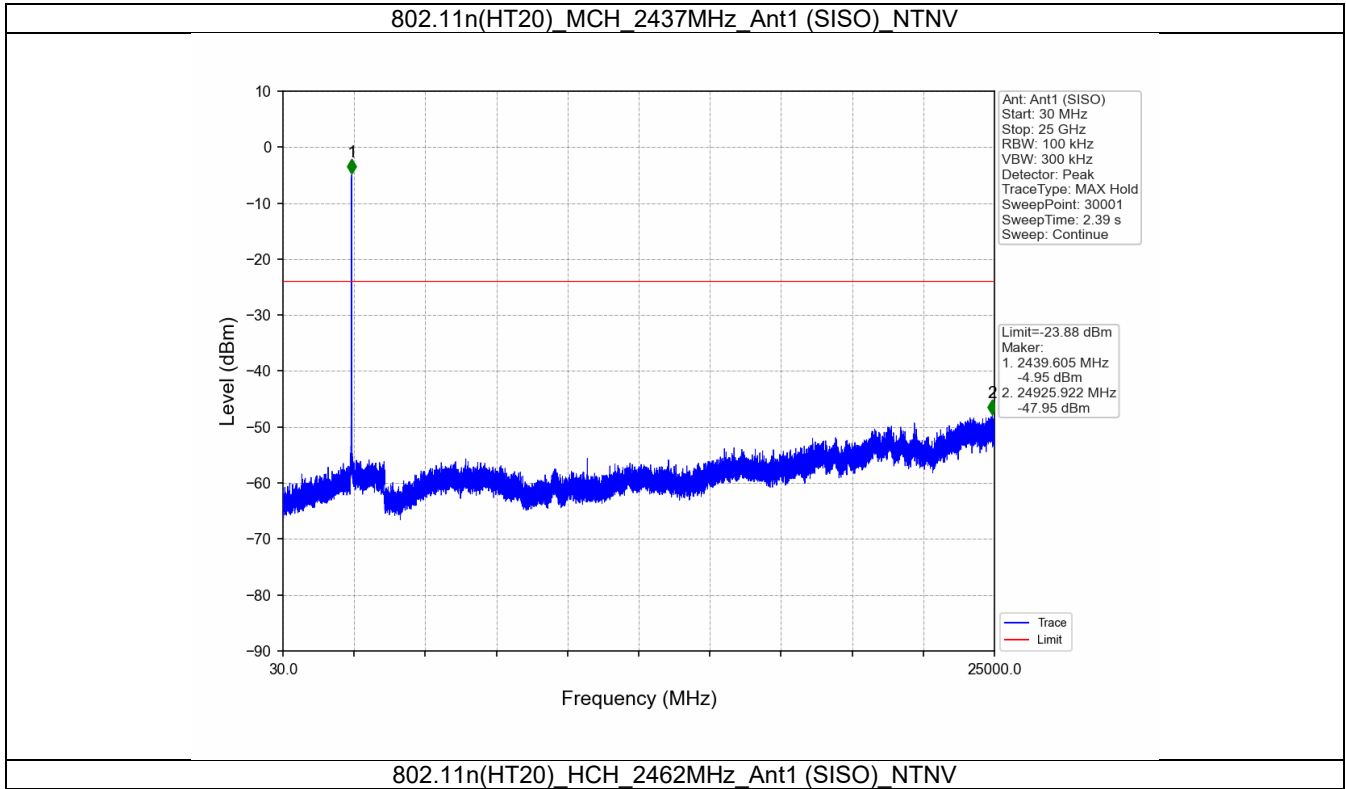
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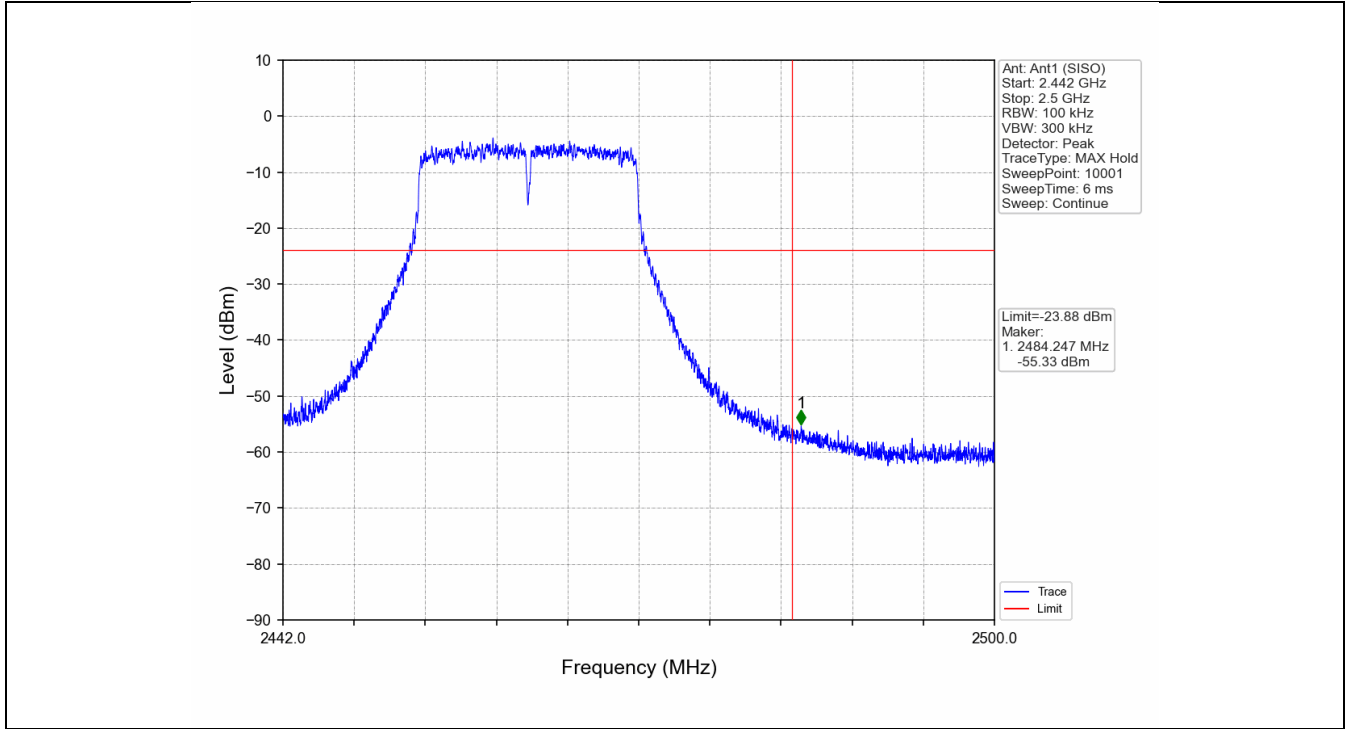
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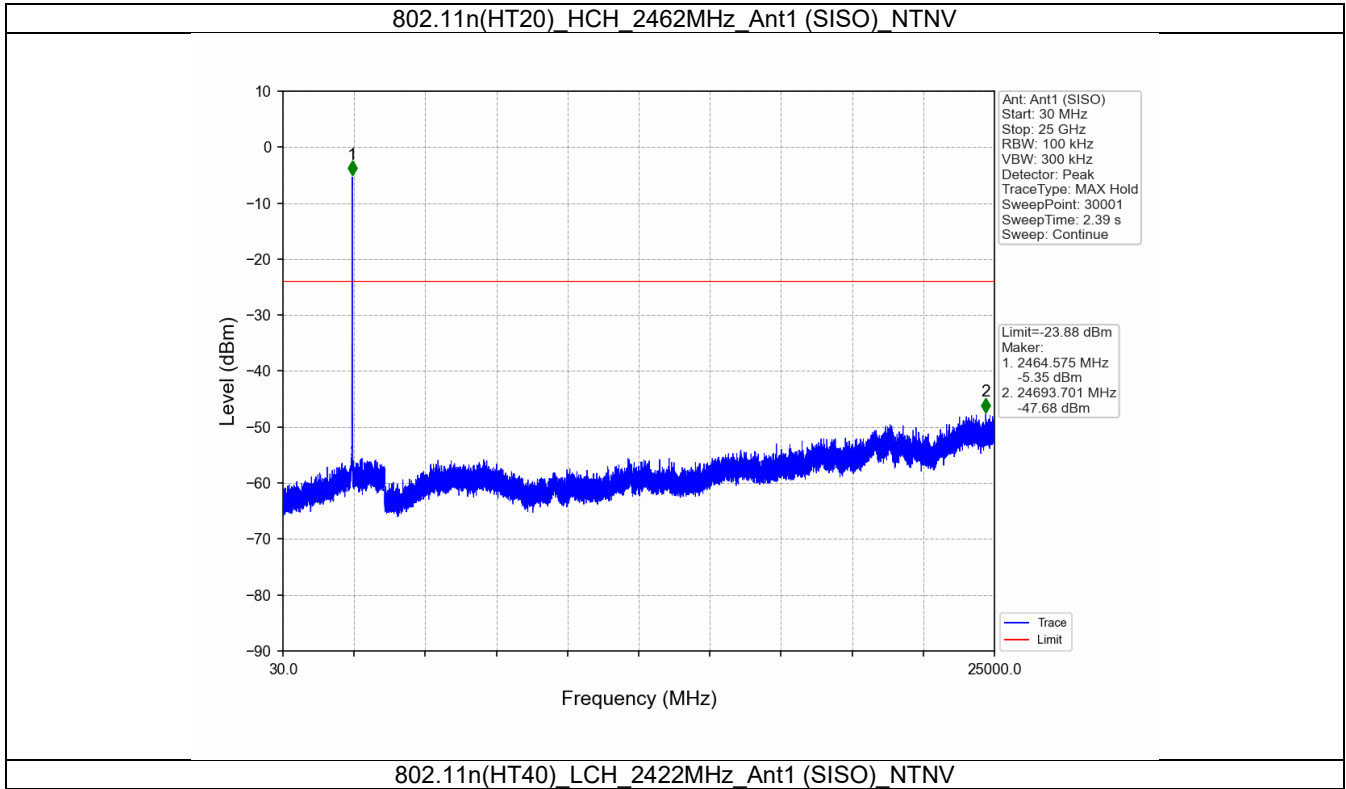
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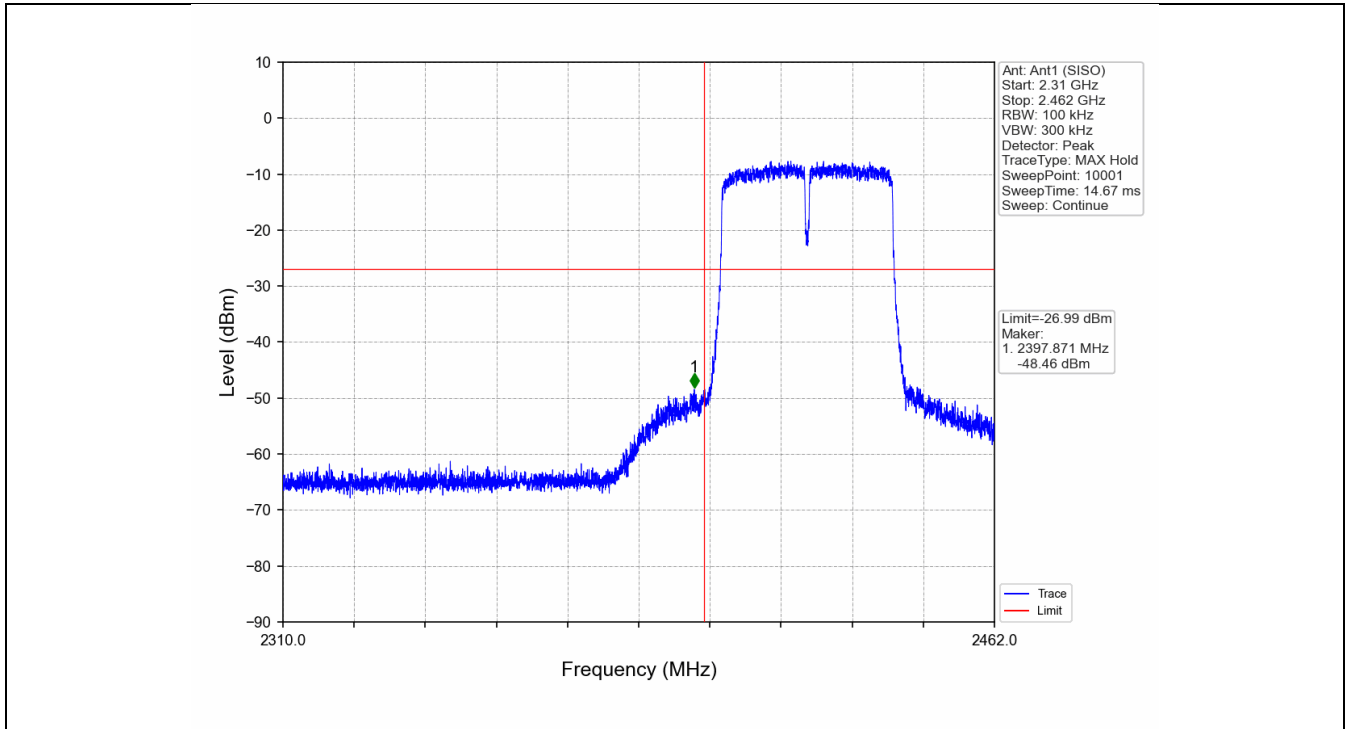
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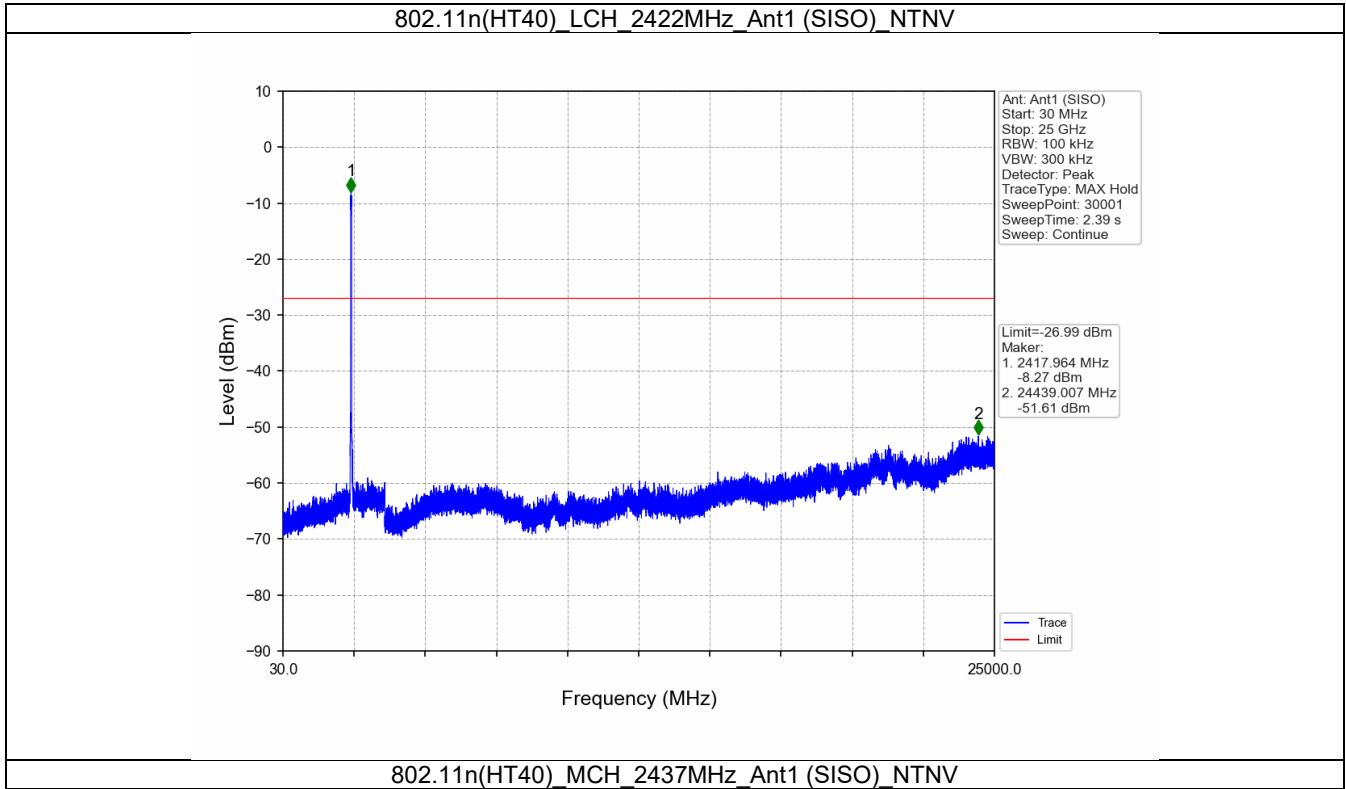
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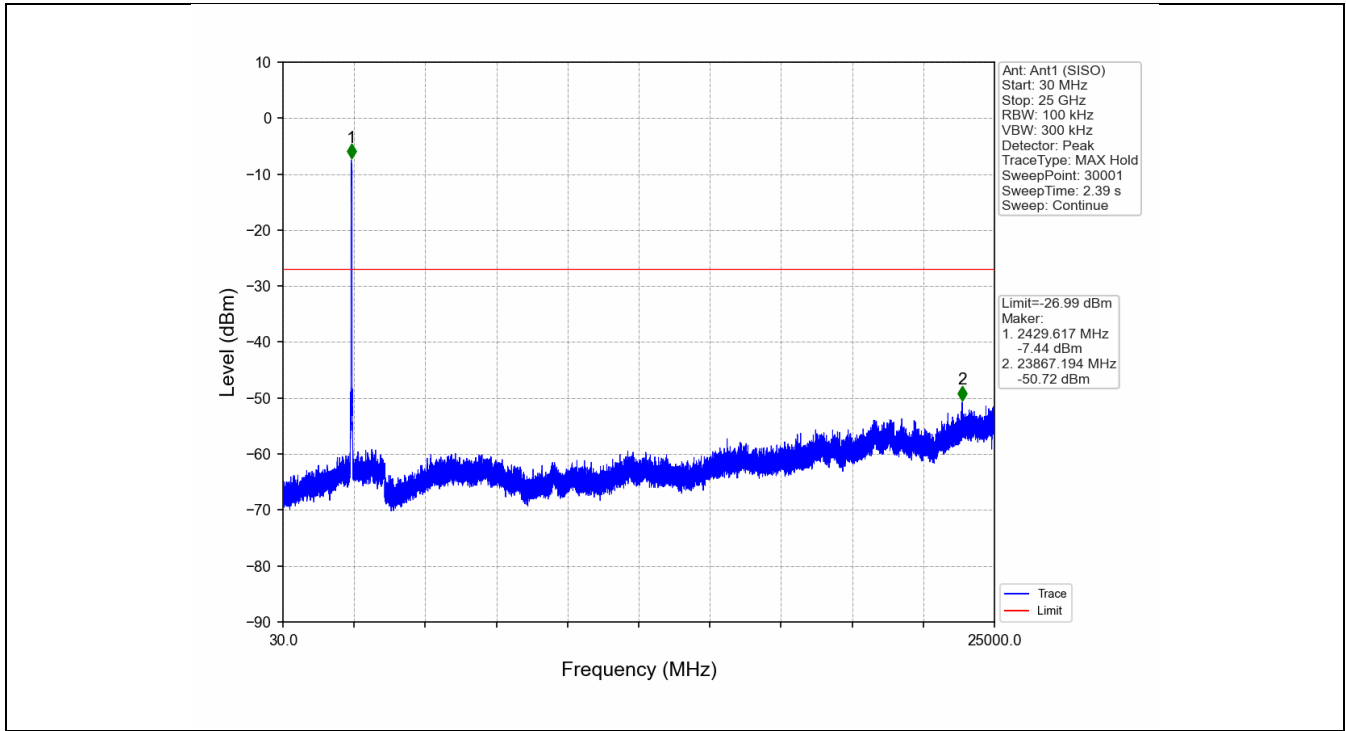
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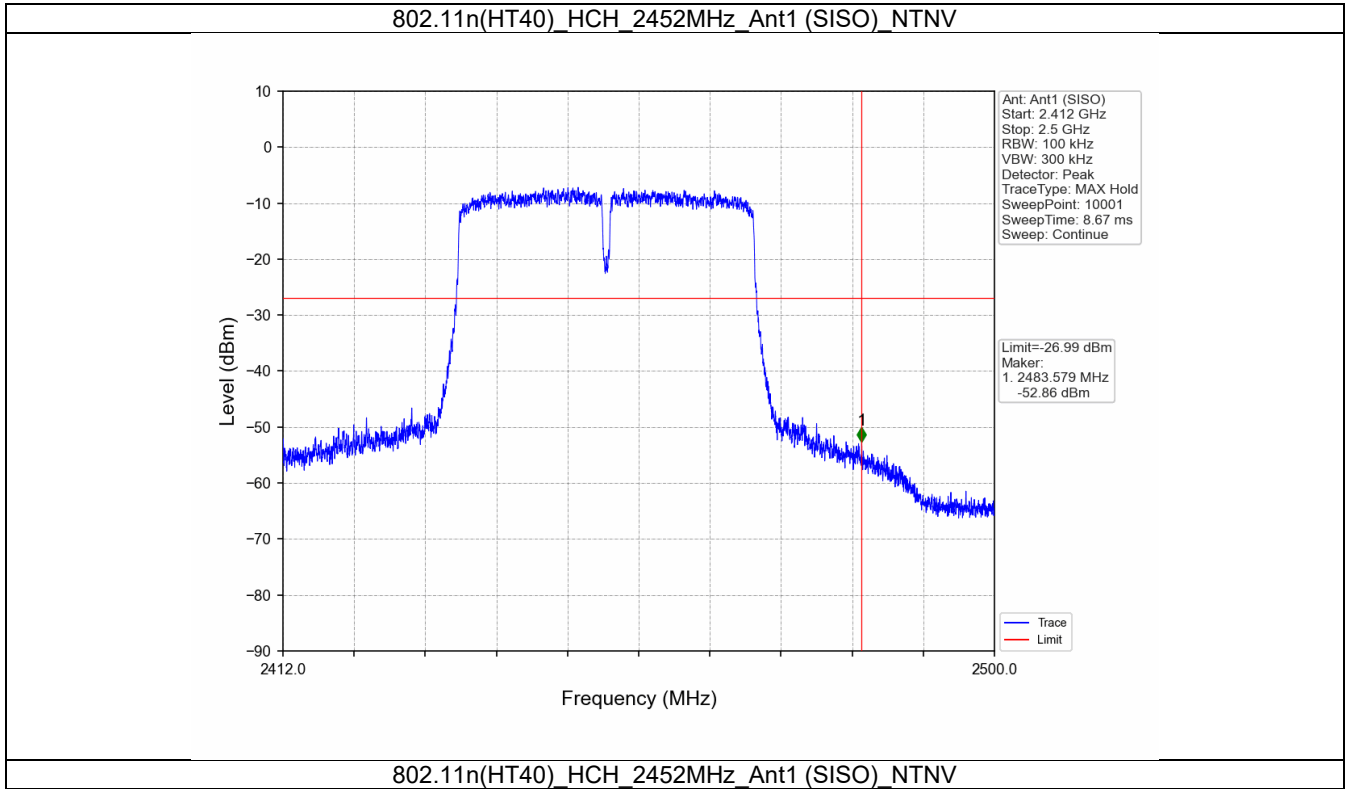
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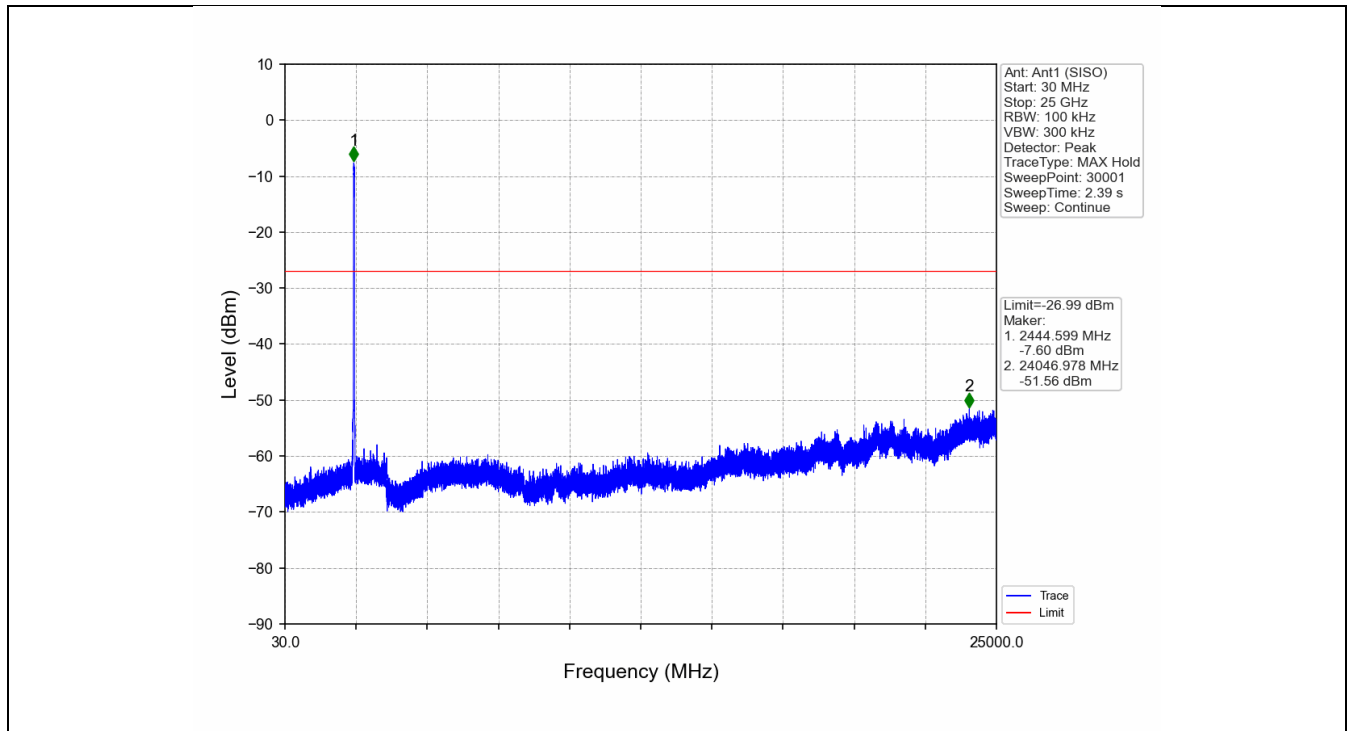
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