

Appendix A for SHEM210800957401

1. Duty Cycle

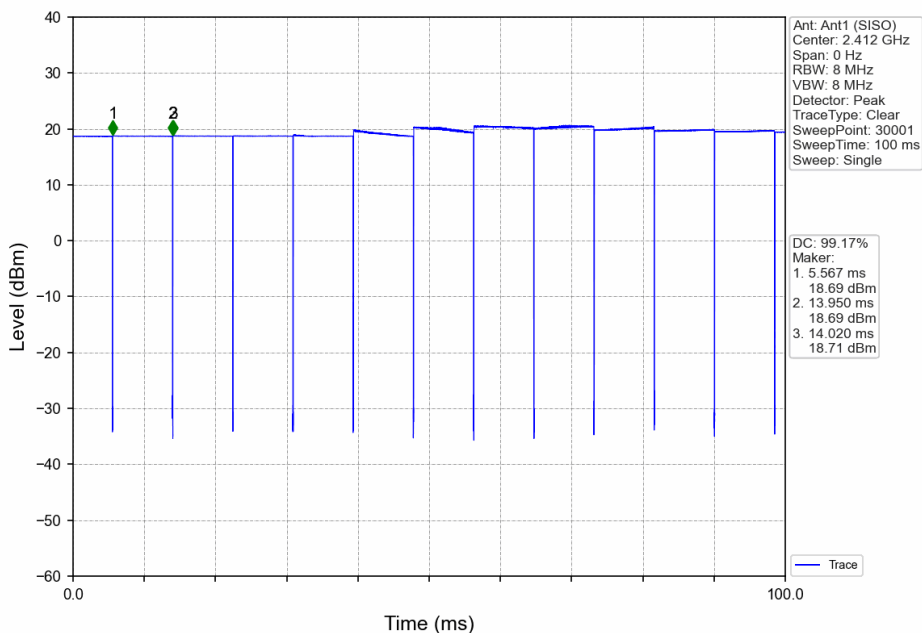
1.1 Ant1

1.1.1 Test Result

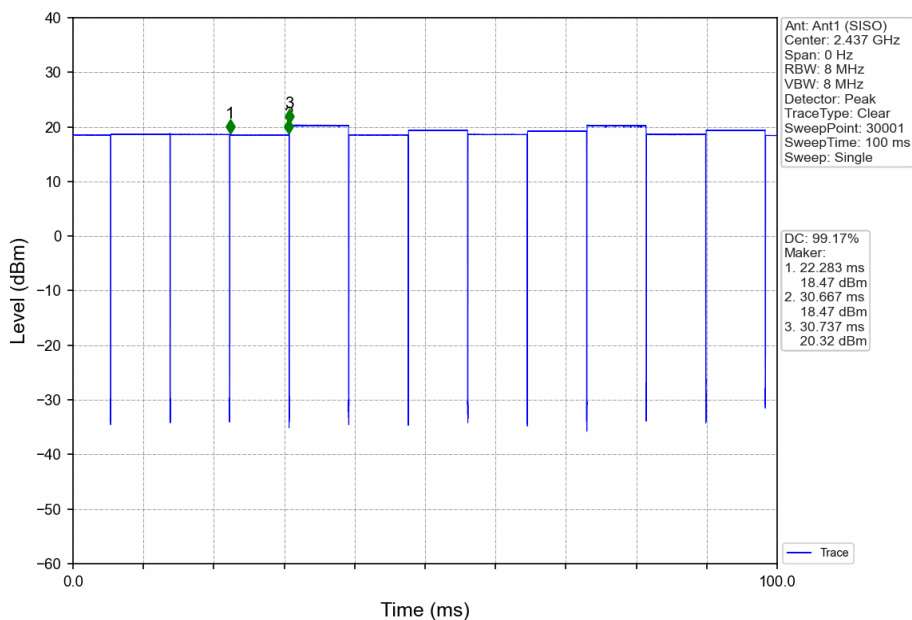
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.383	8.453	99.17	0.04	0.04
		2437	8.384	8.454	99.17	0.04	0.04
		2462	8.384	8.454	99.17	0.04	0.04
802.11g	SISO	2412	1.392	1.459	95.41	0.20	0.03
		2437	1.392	1.460	95.34	0.21	0.03
		2462	1.391	1.459	95.34	0.21	0.03
802.11n (HT20)	SISO	2412	5.084	5.152	98.68	0.06	0.03
		2437	5.083	5.152	98.66	0.06	0.04
		2462	5.083	5.152	98.66	0.06	0.04
802.11n (HT40)	SISO	2422	2.468	2.536	97.32	0.12	0.03
		2437	2.467	2.535	97.32	0.12	0.03
		2452	2.468	2.536	97.32	0.12	0.03

1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

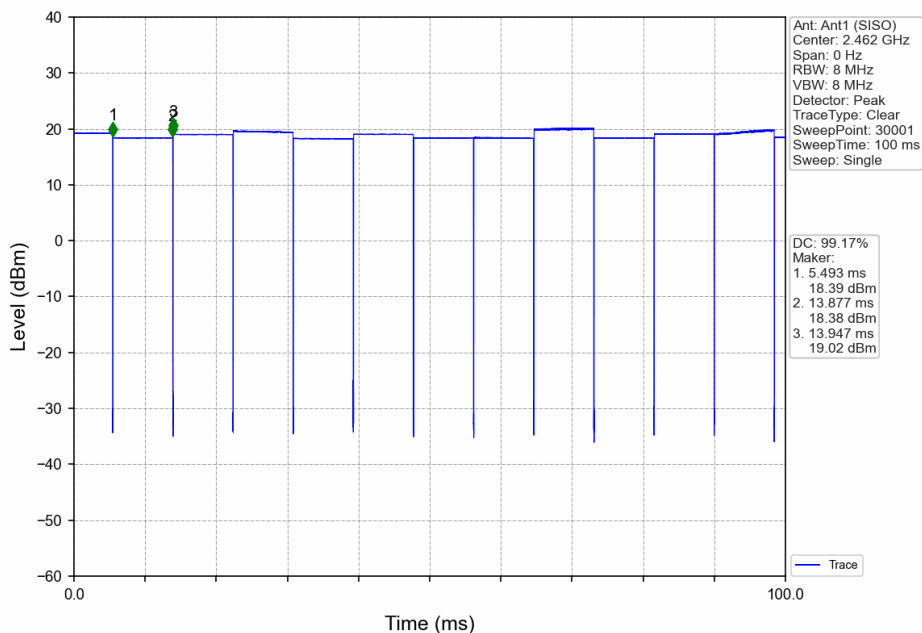


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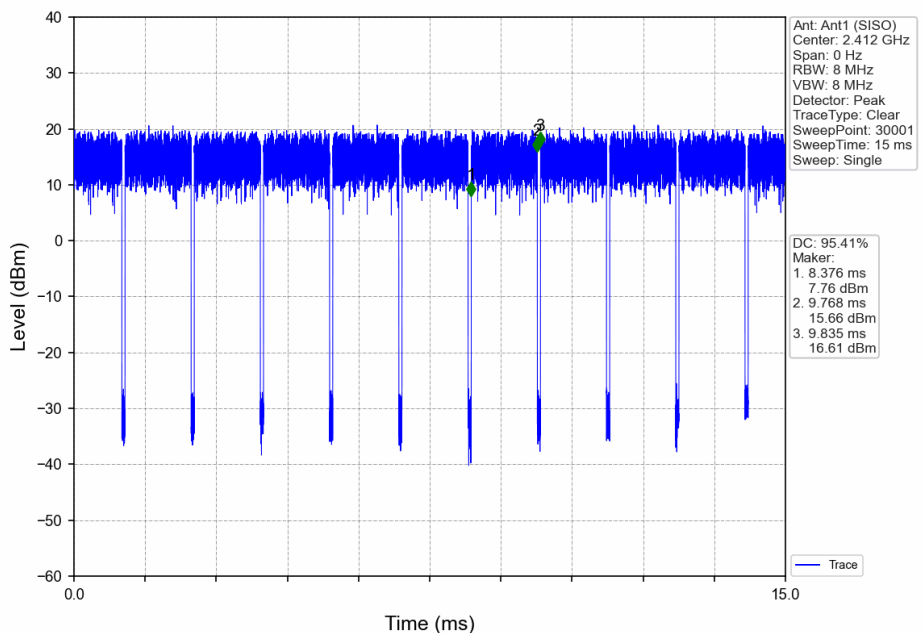
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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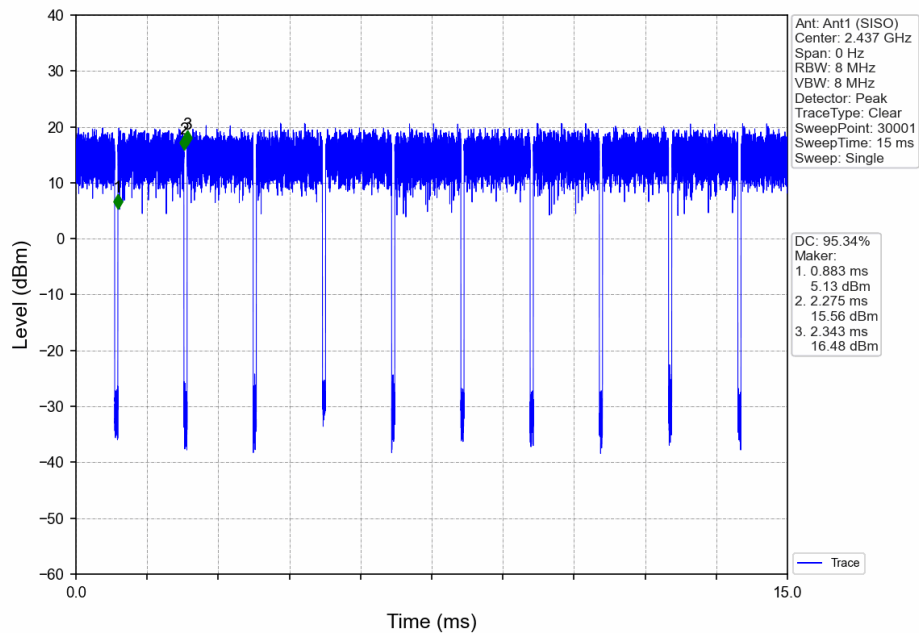
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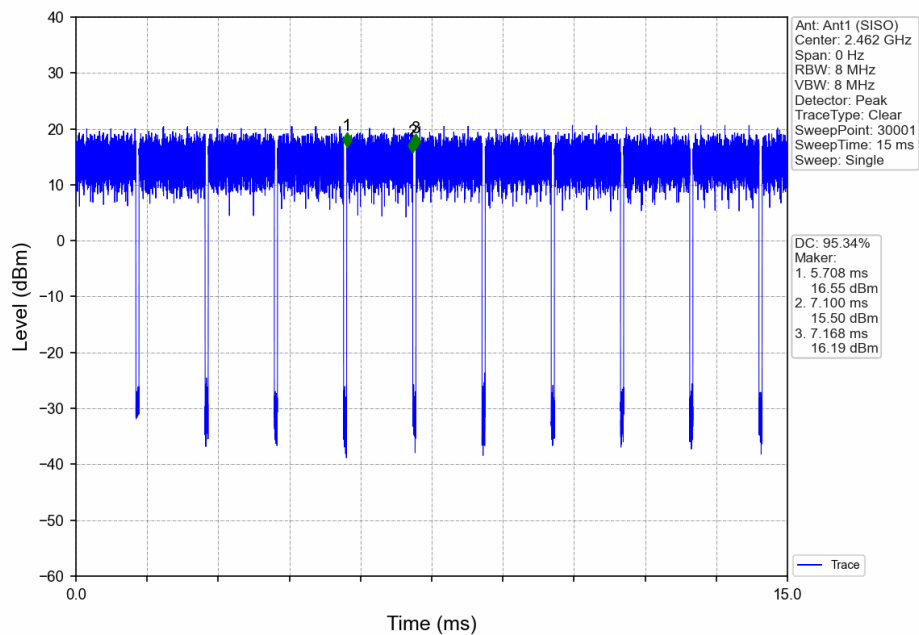
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

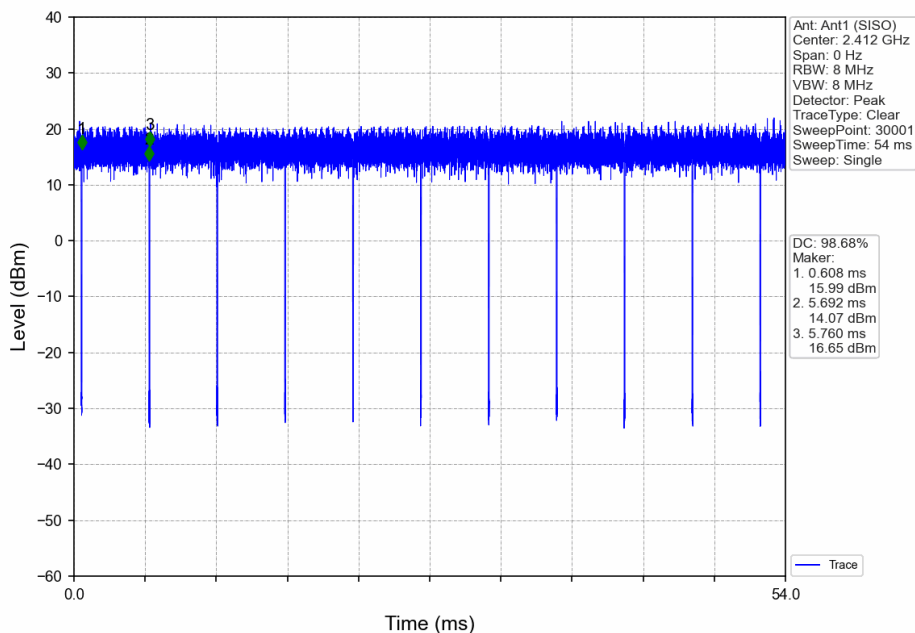


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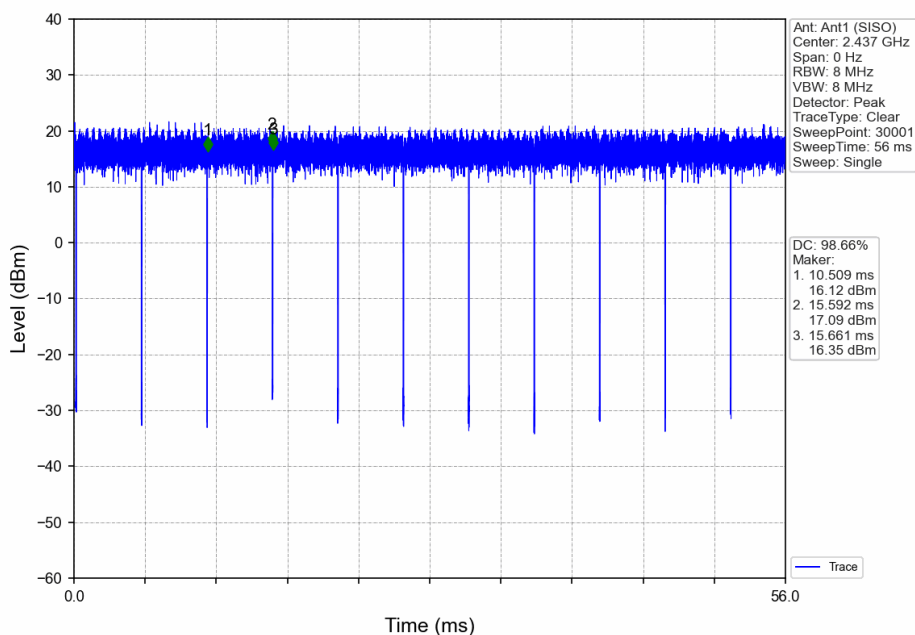
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

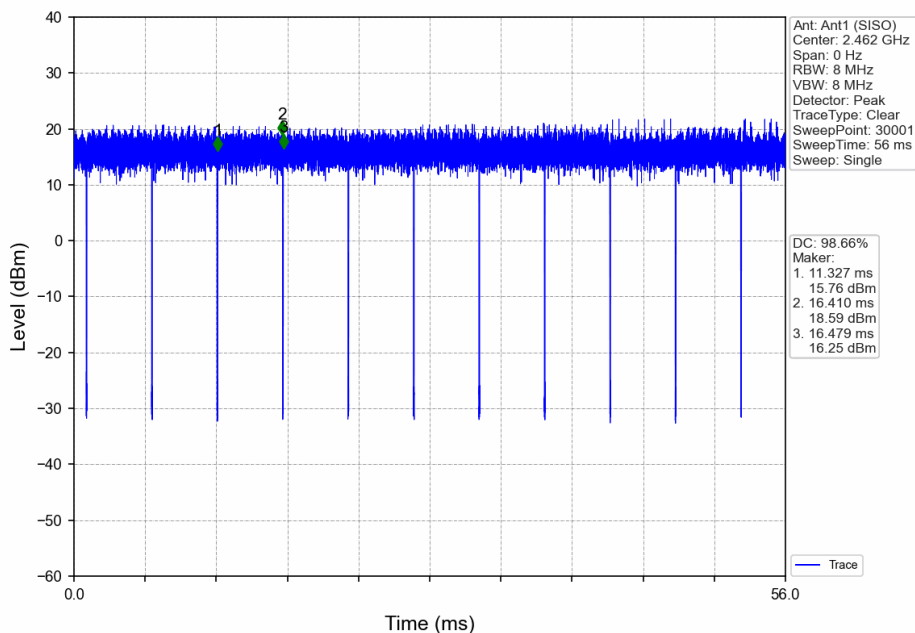


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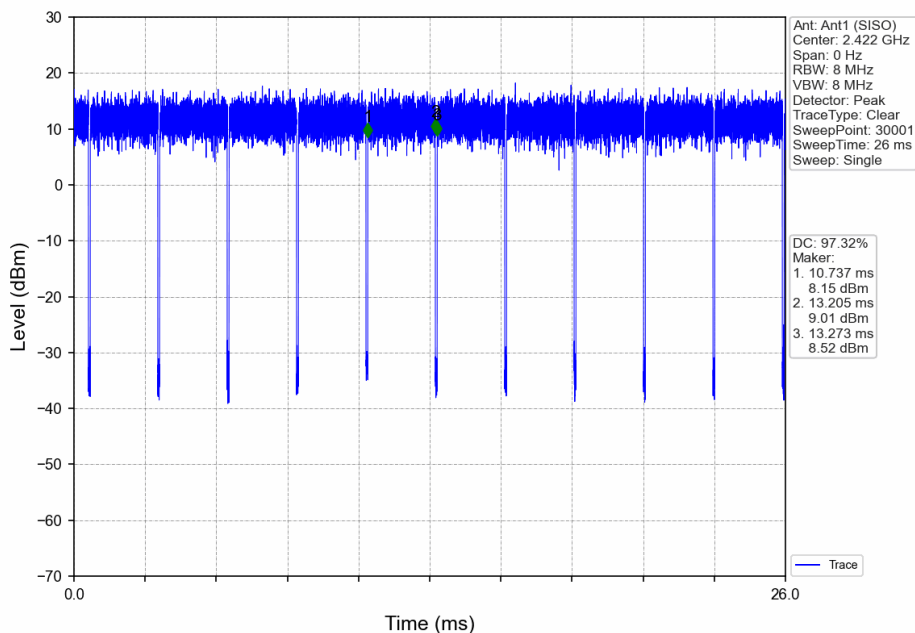
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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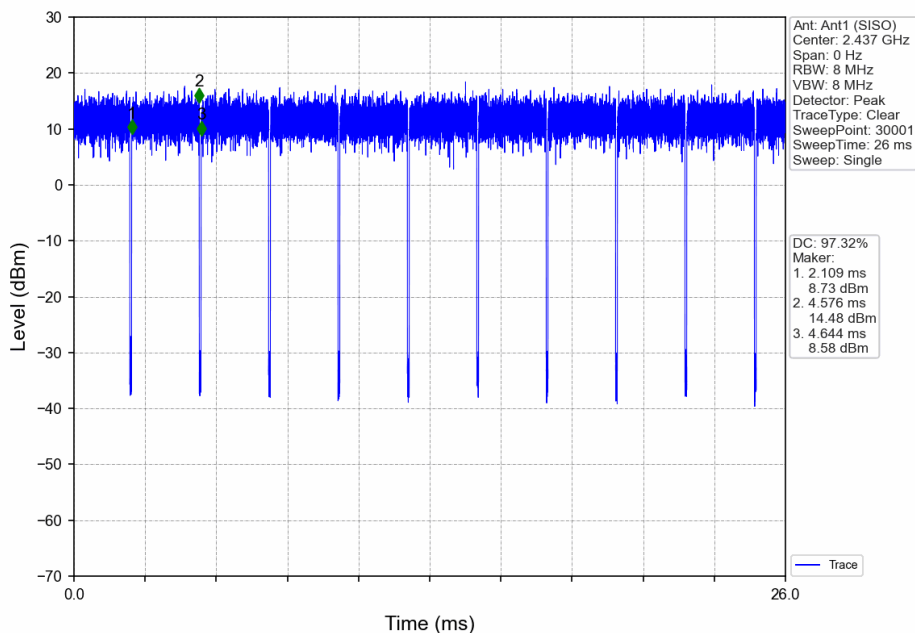
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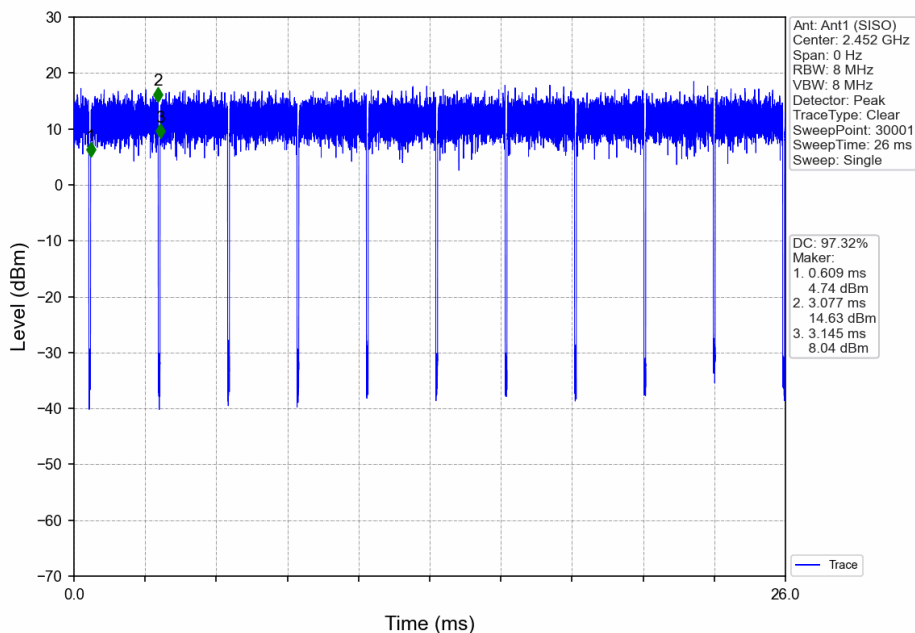
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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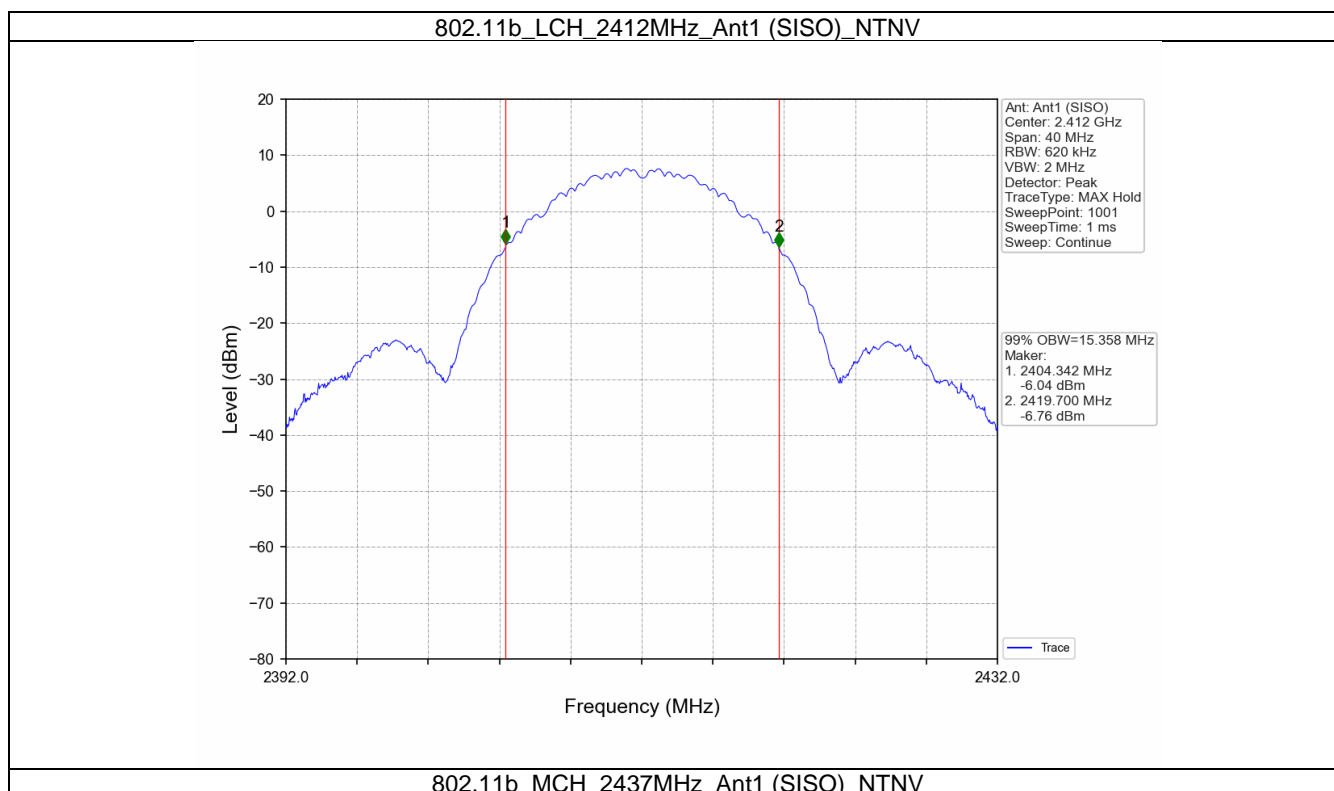
2. Bandwidth

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	15.358	Pass
		2437	1	15.327	Pass
		2462	1	15.277	Pass
802.11g	SISO	2412	1	18.057	Pass
		2437	1	18.022	Pass
		2462	1	17.999	Pass
802.11n (HT20)	SISO	2412	1	18.779	Pass
		2437	1	18.740	Pass
		2462	1	18.697	Pass
802.11n (HT40)	SISO	2422	1	37.431	Pass
		2437	1	37.397	Pass
		2452	1	37.366	Pass

2.1.2 Test Graph

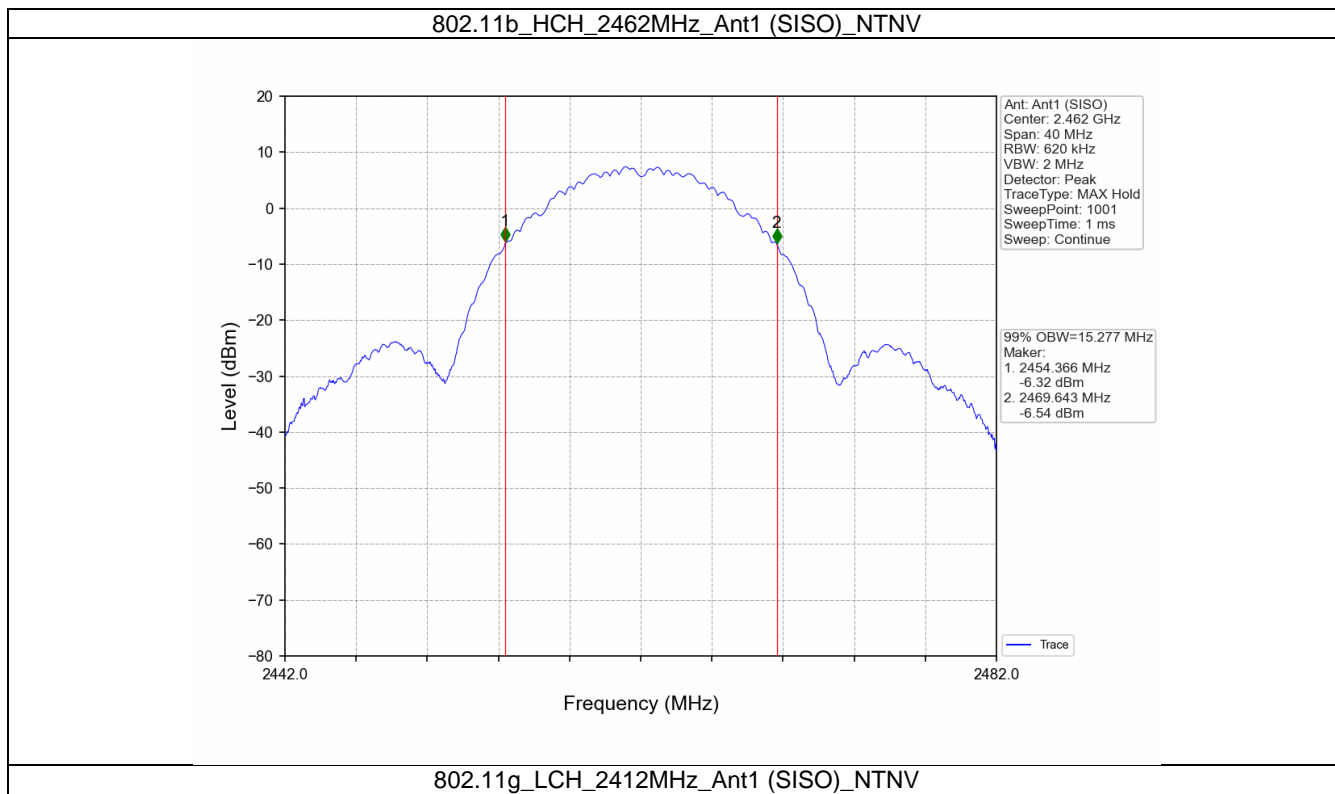
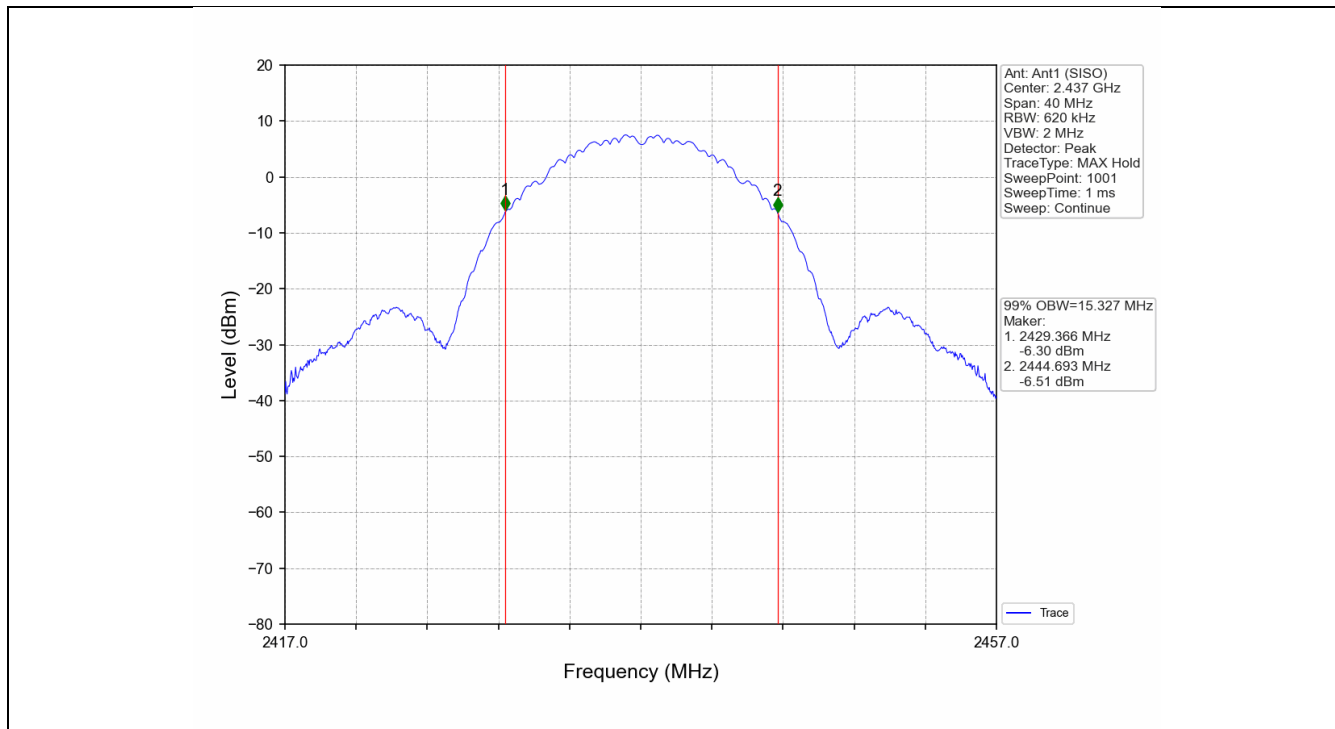


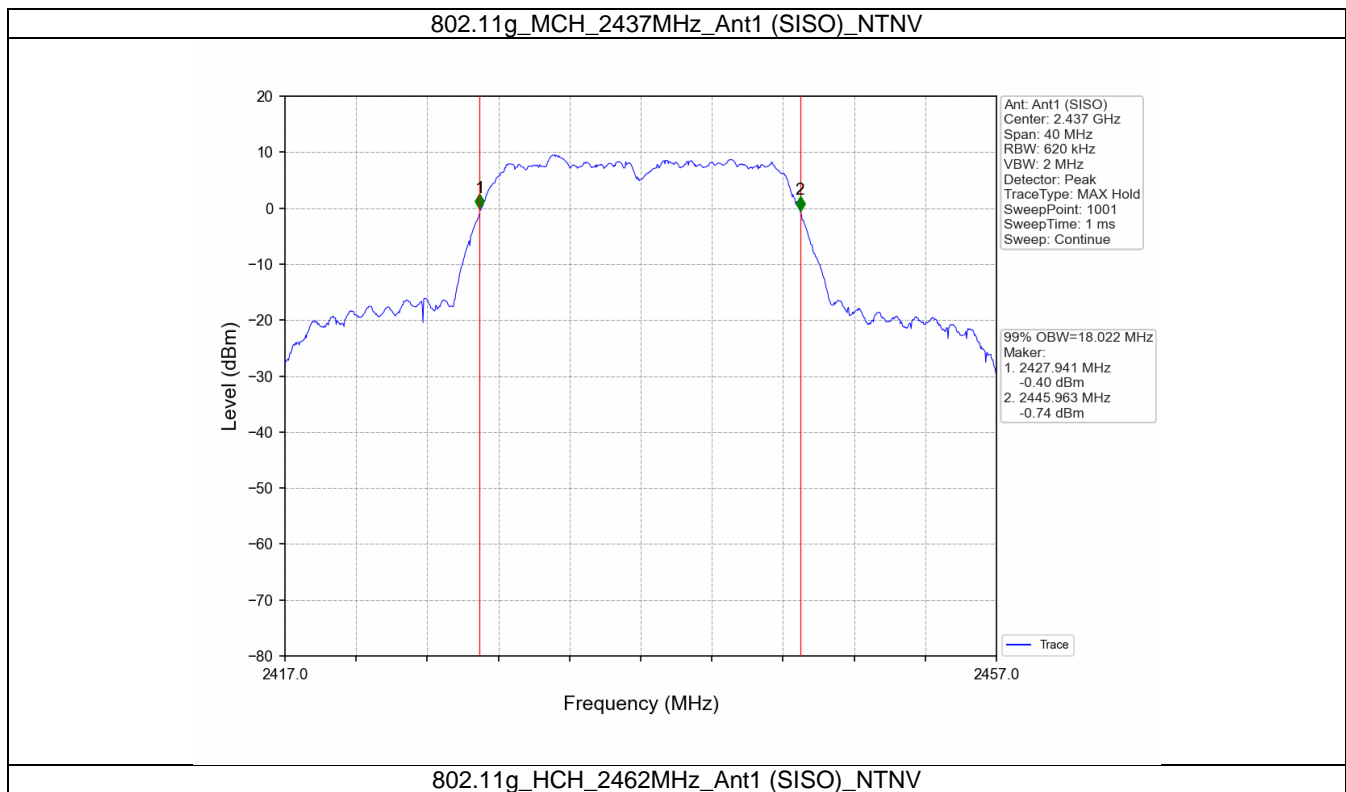
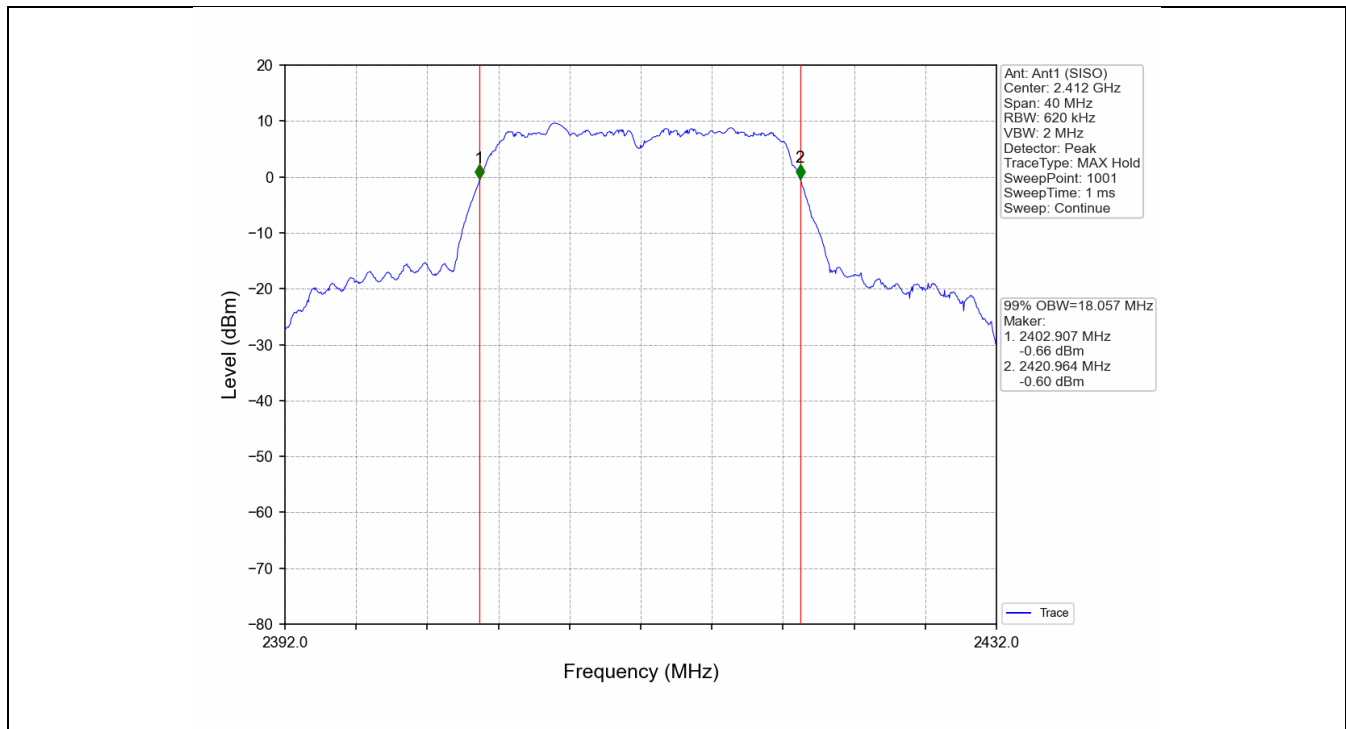
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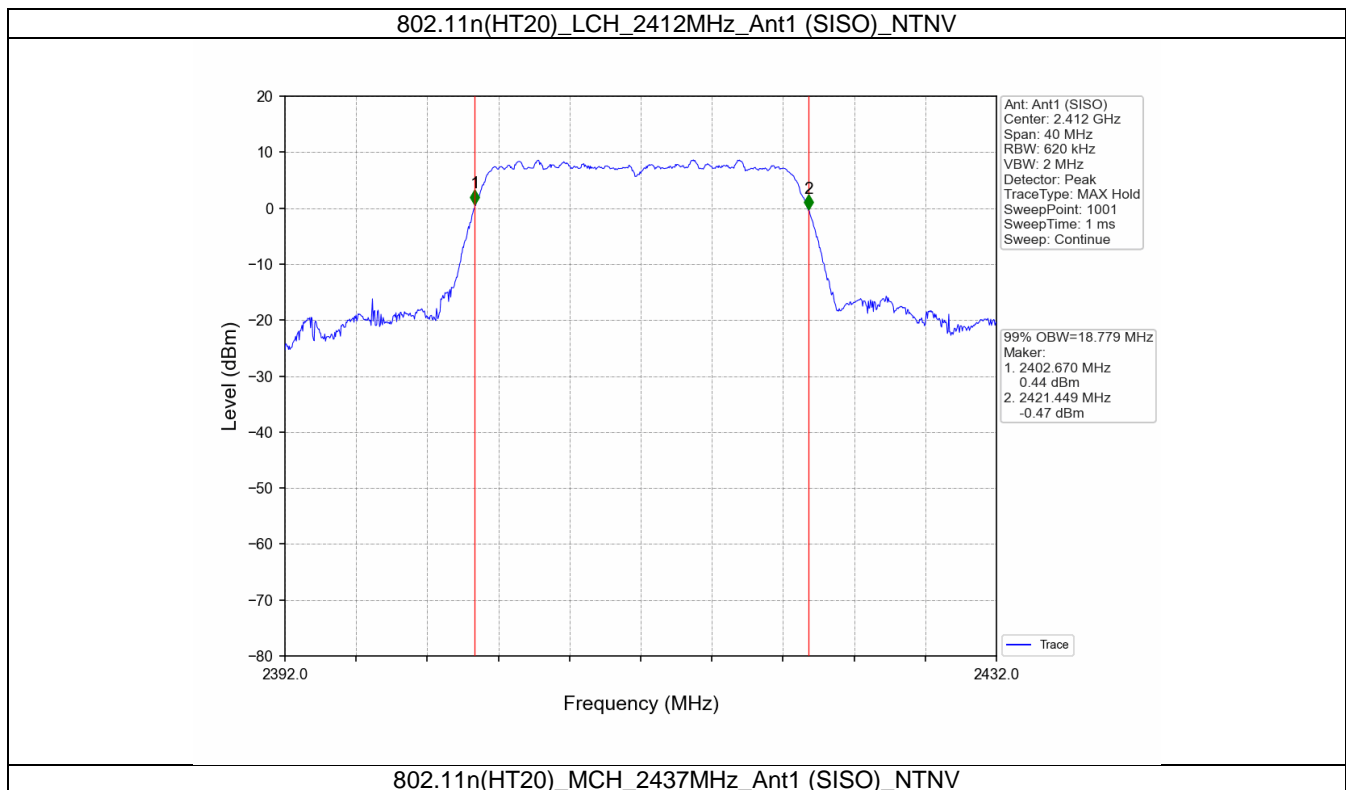
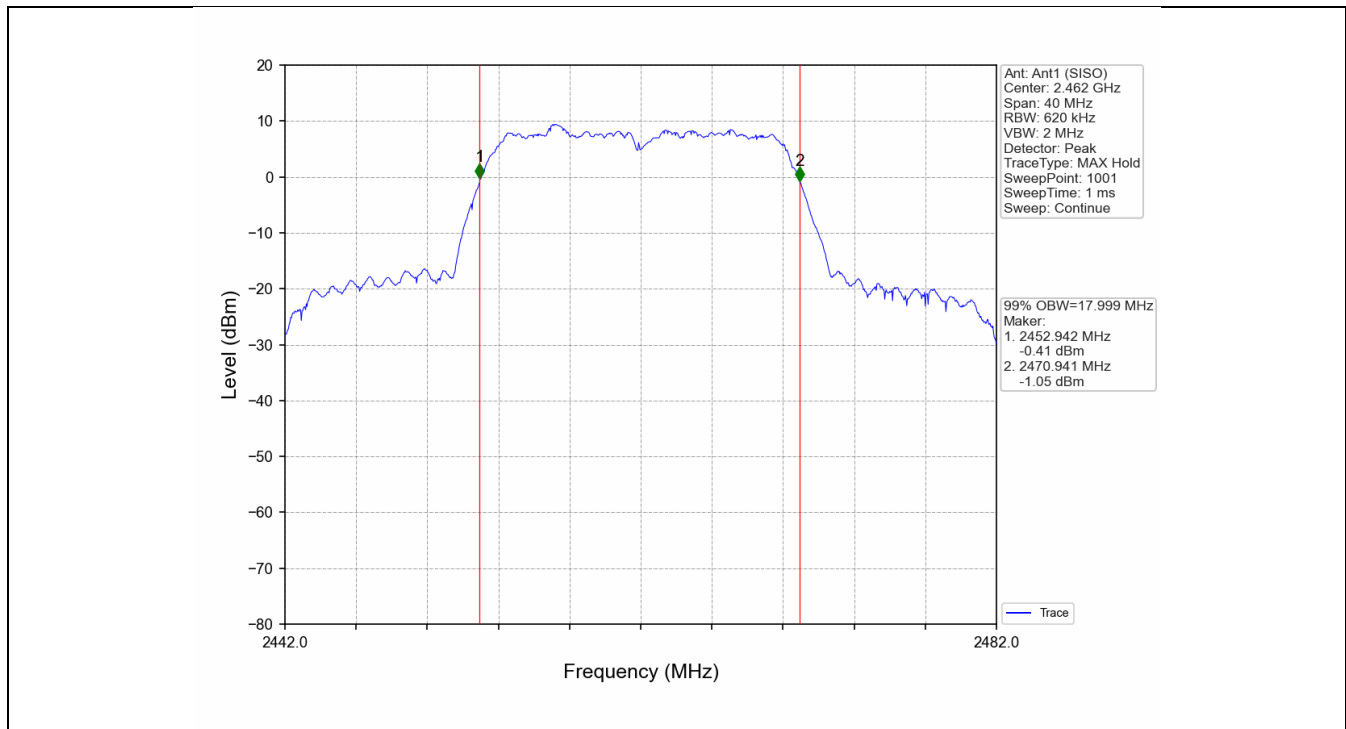
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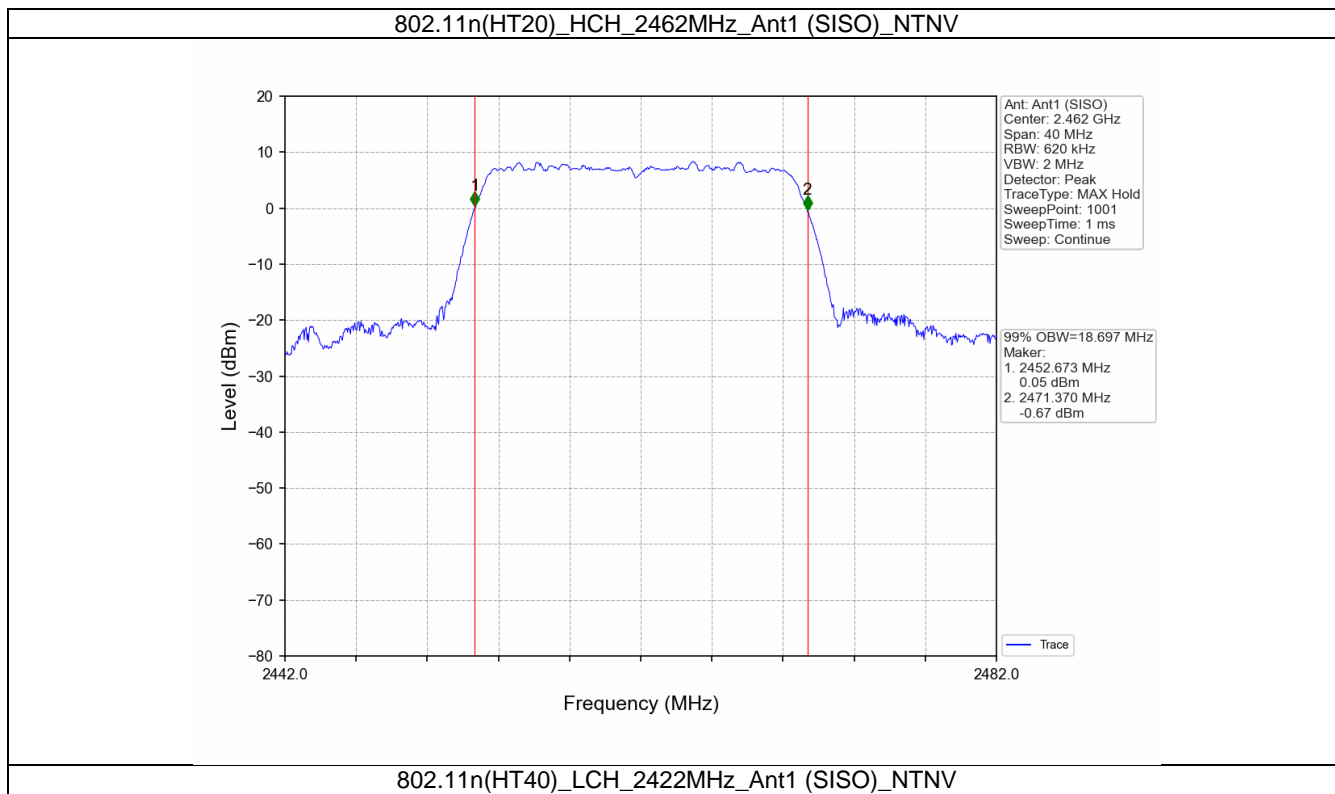
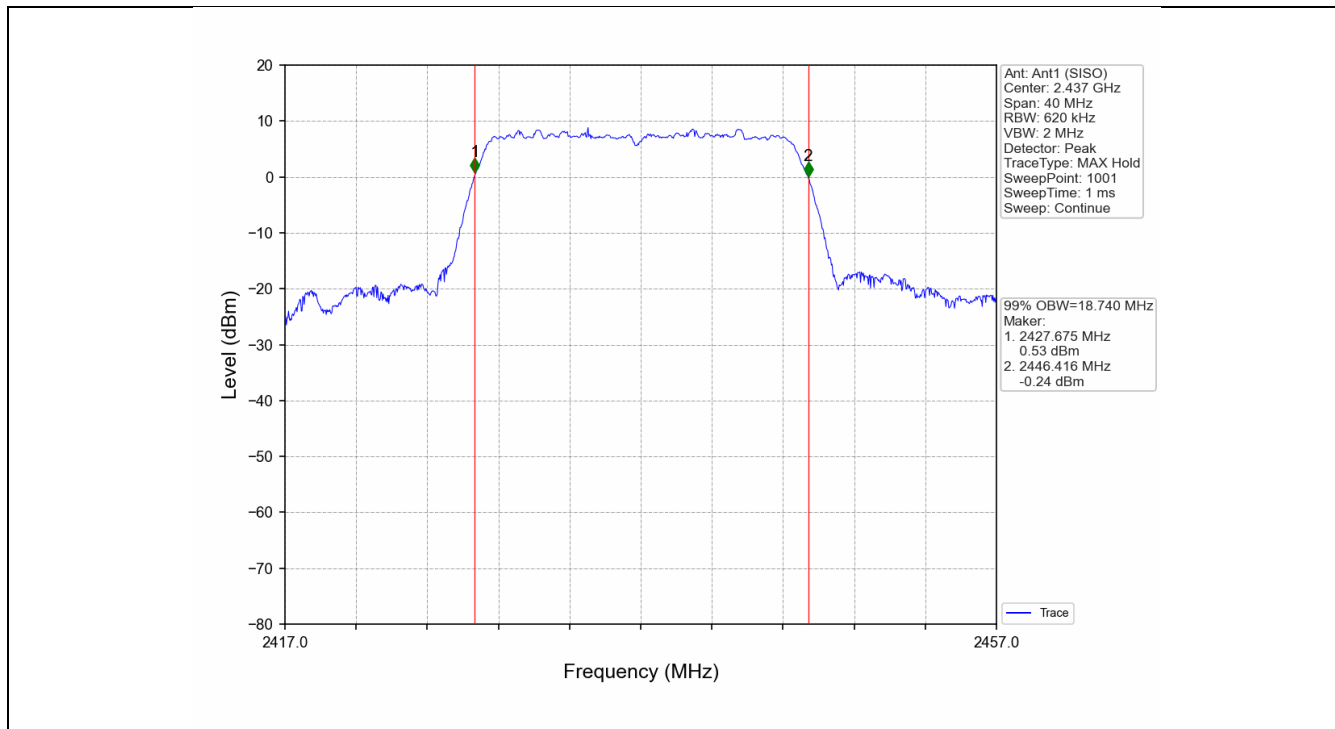


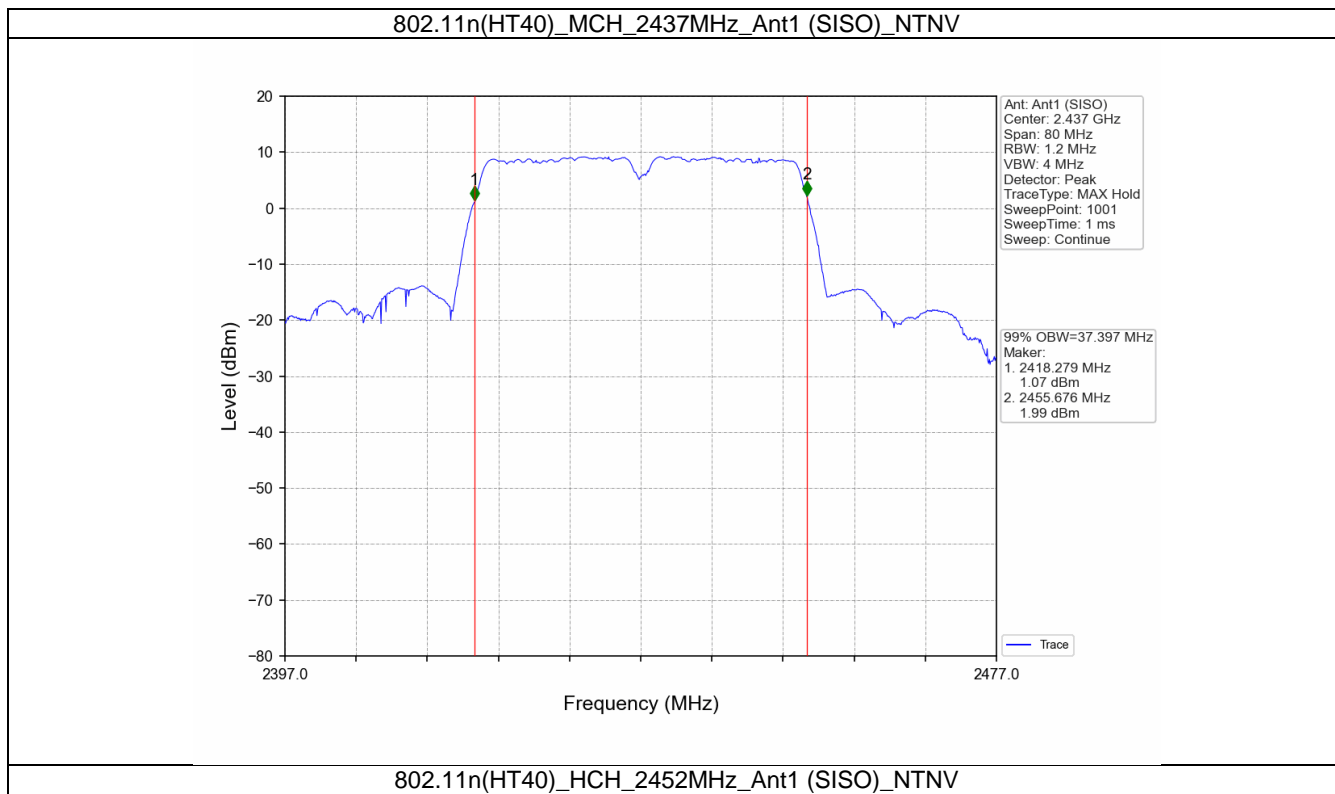
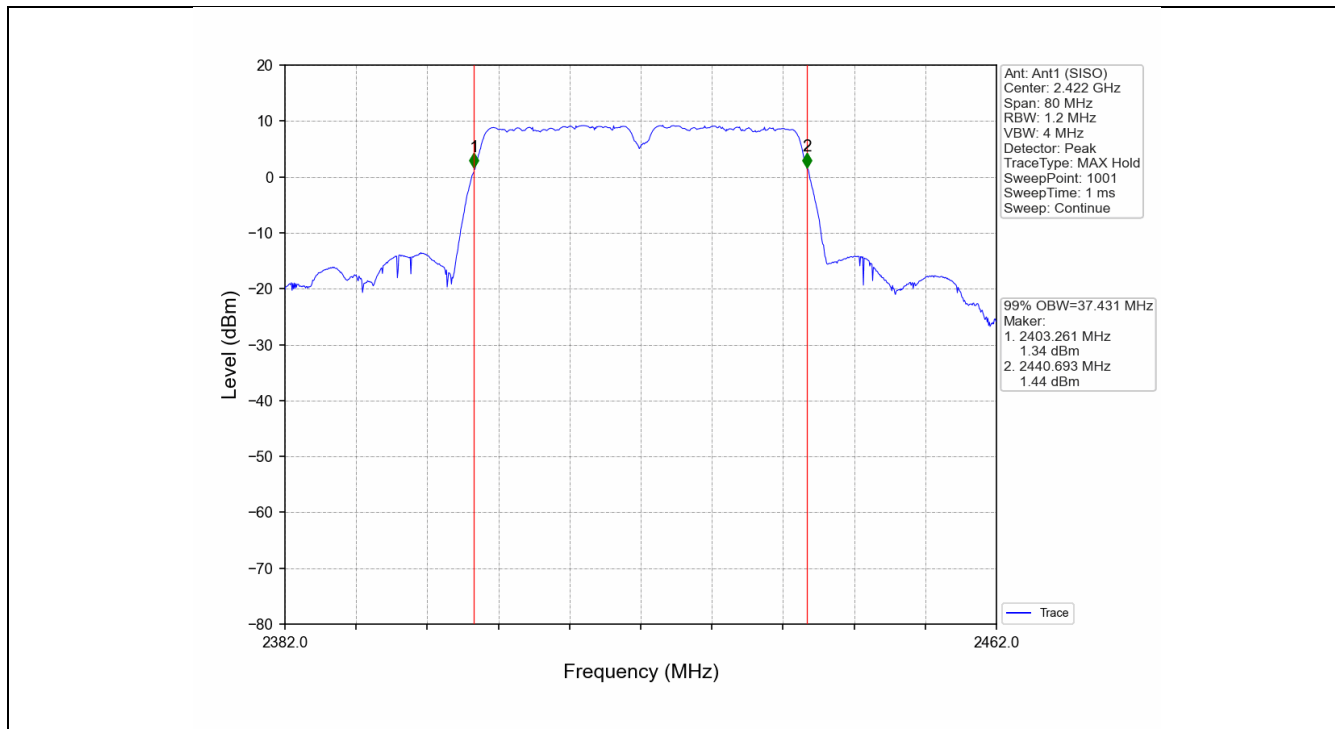
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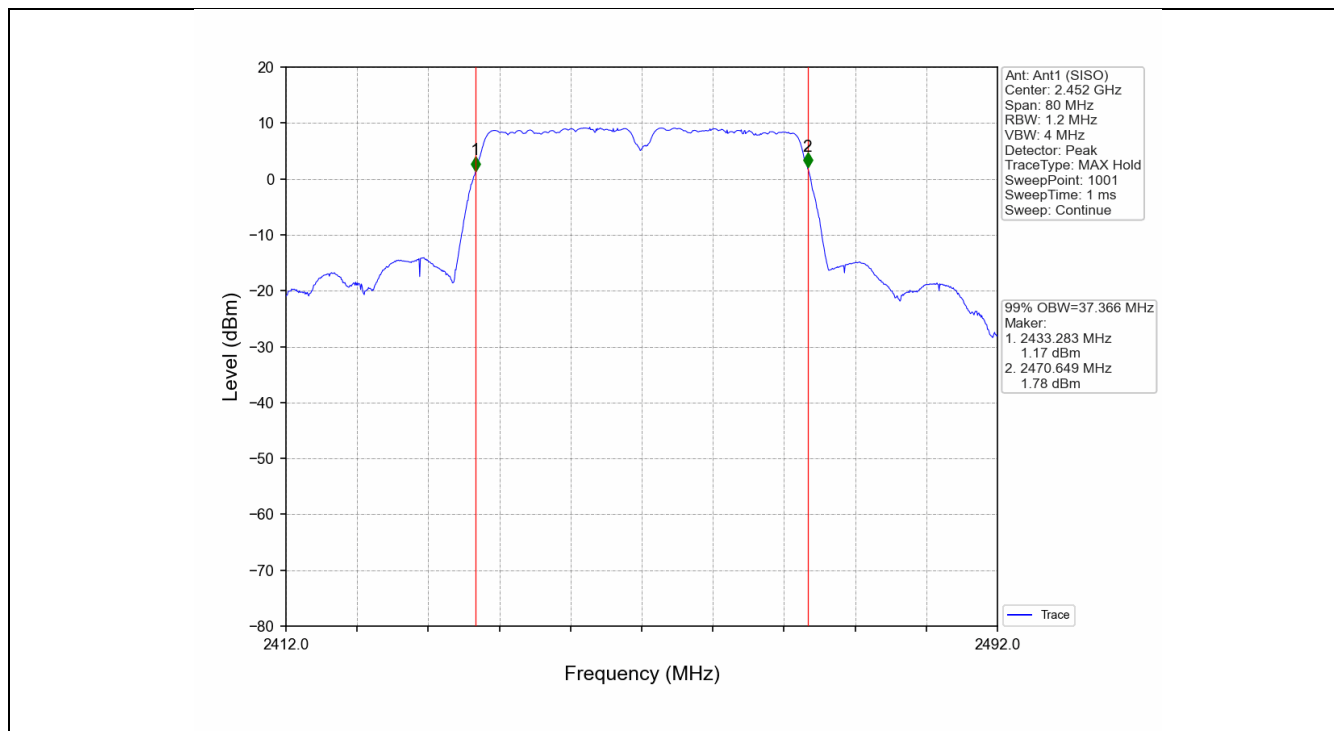
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.092	≥ 0.5	Pass
		2437	1	10.097	≥ 0.5	Pass
		2462	1	10.077	≥ 0.5	Pass
802.11g	SISO	2412	1	16.391	≥ 0.5	Pass
		2437	1	16.399	≥ 0.5	Pass
		2462	1	16.398	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.639	≥ 0.5	Pass
		2437	1	17.637	≥ 0.5	Pass
		2462	1	17.637	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.362	≥ 0.5	Pass
		2437	1	36.355	≥ 0.5	Pass
		2452	1	36.346	≥ 0.5	Pass



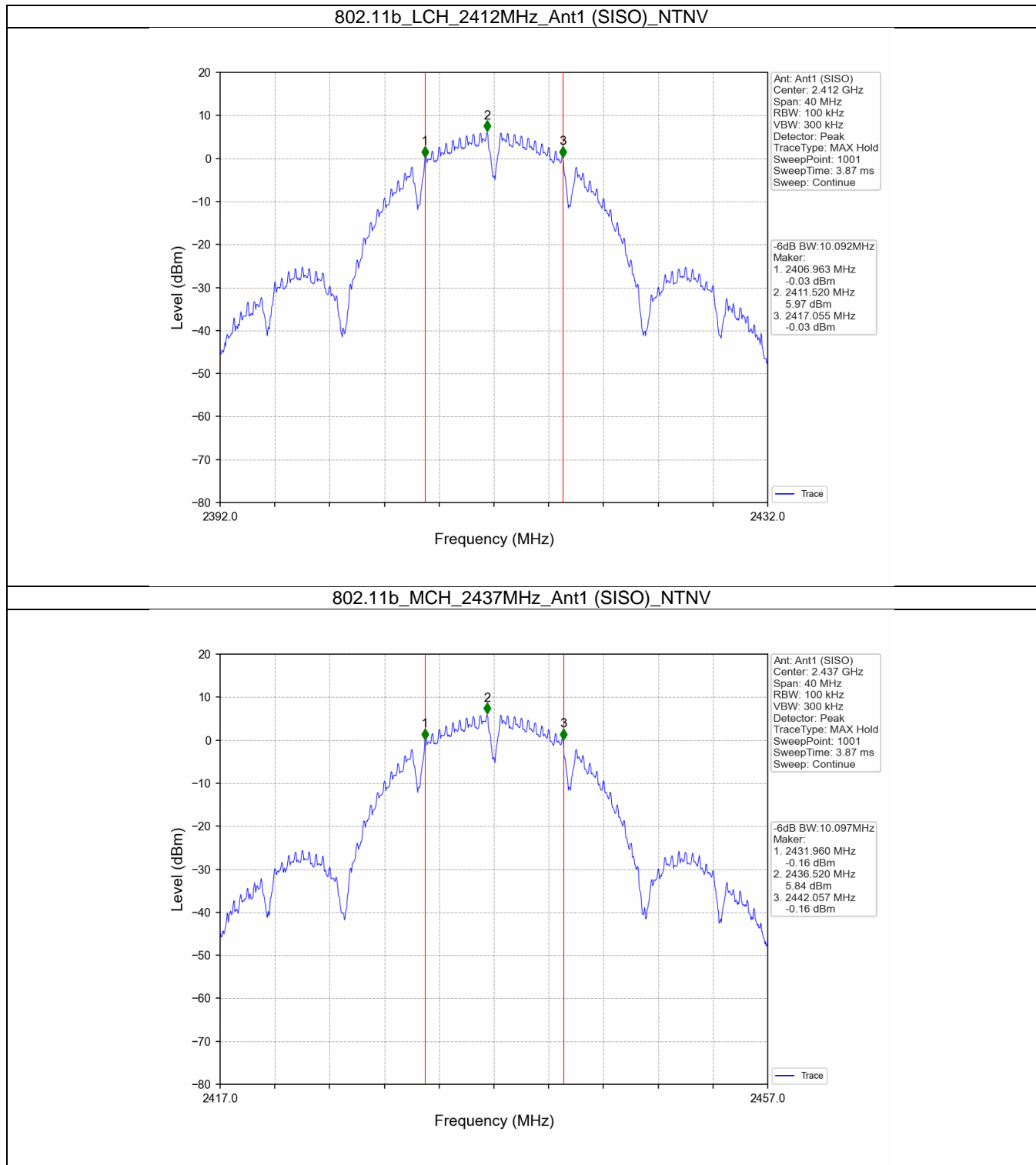
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2.2.2 Test Graph



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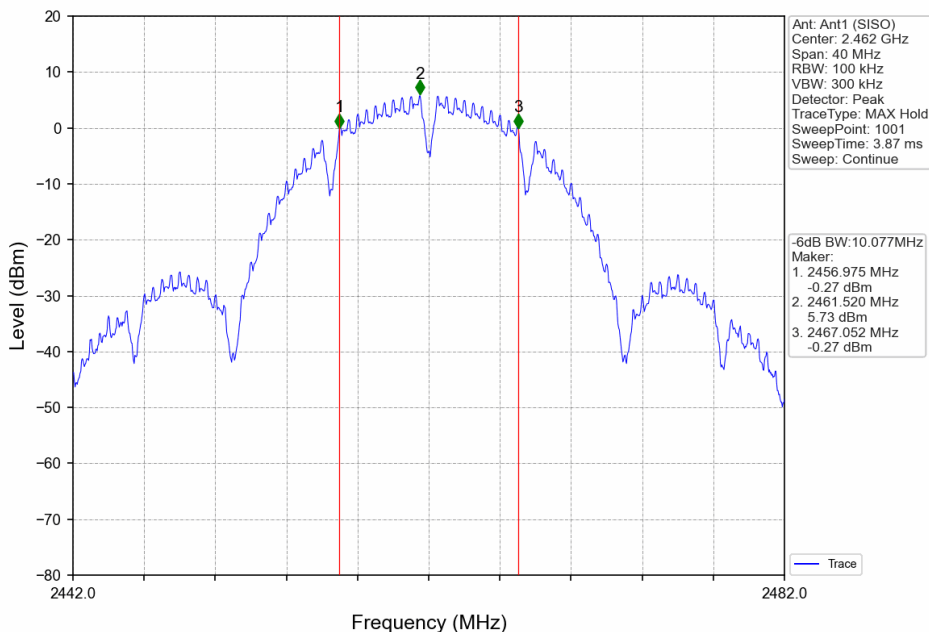
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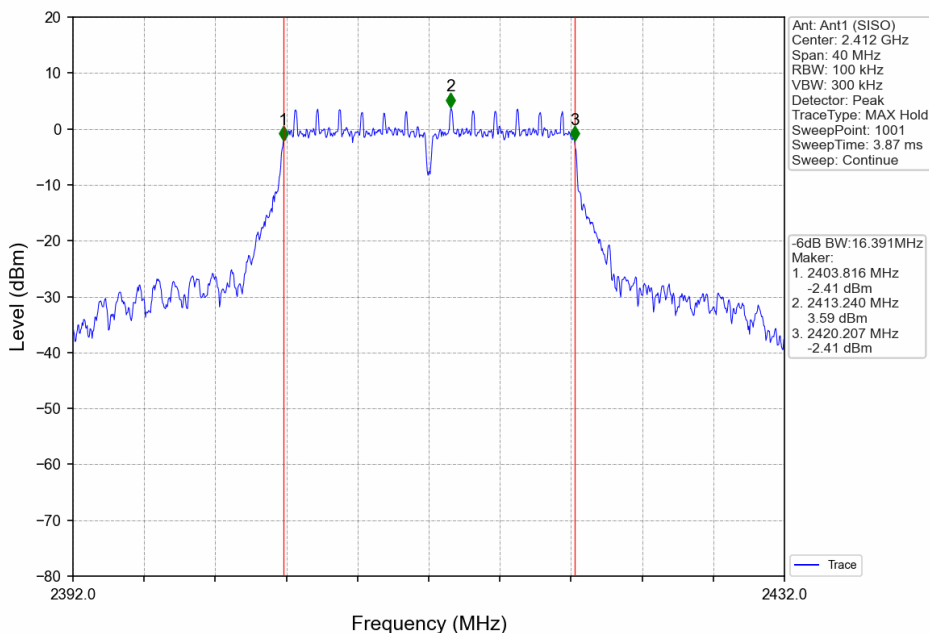
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



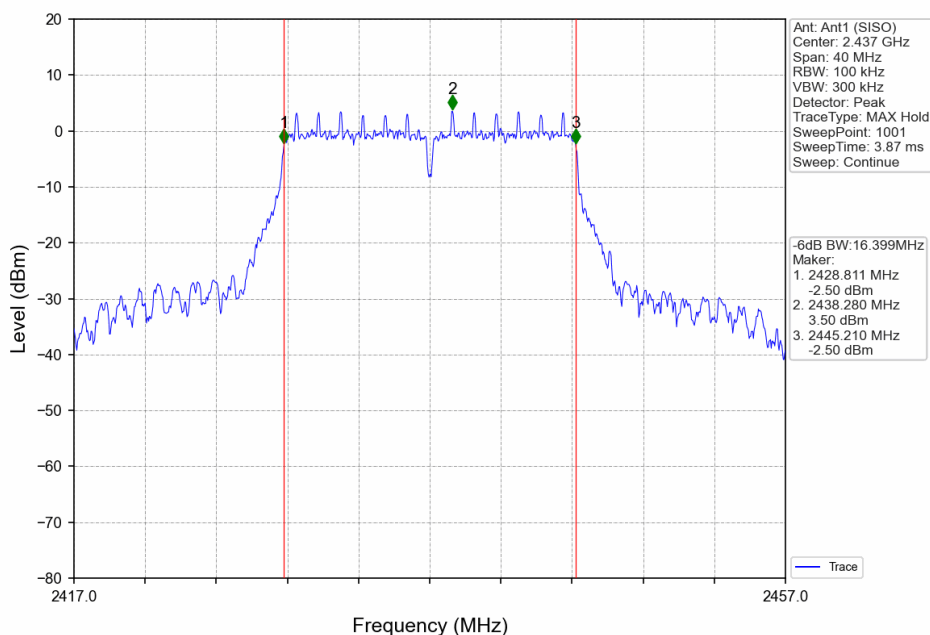
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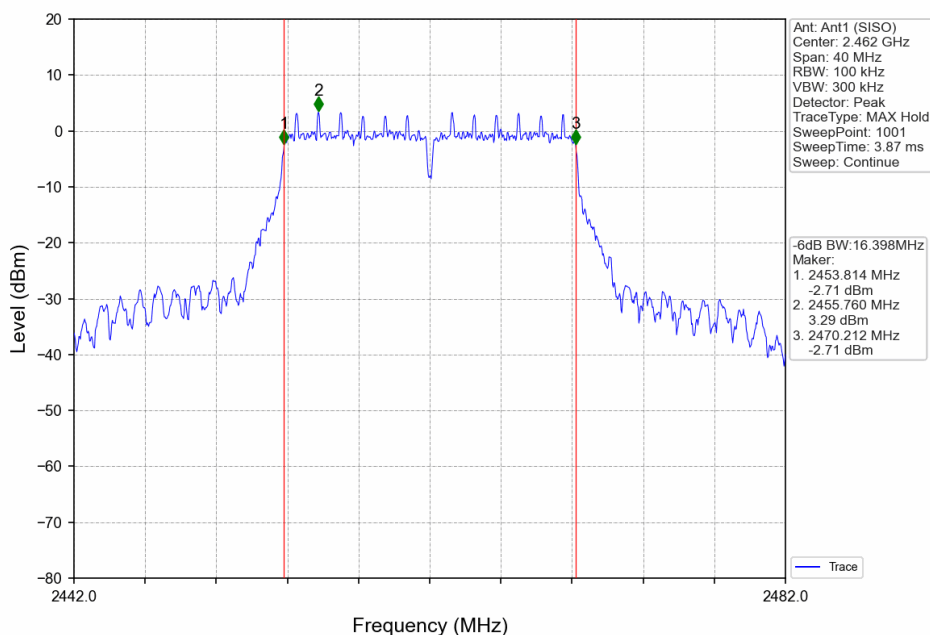
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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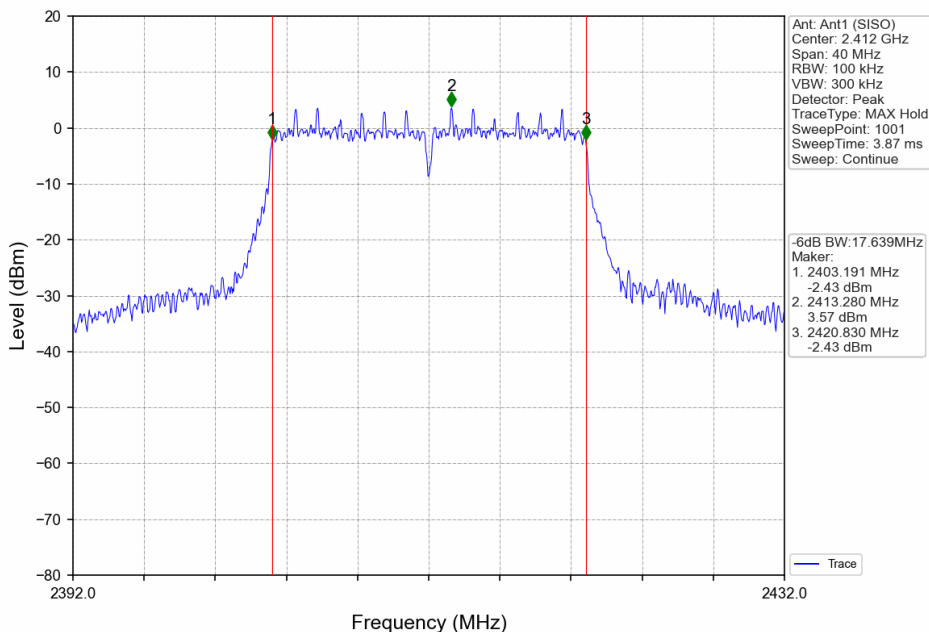
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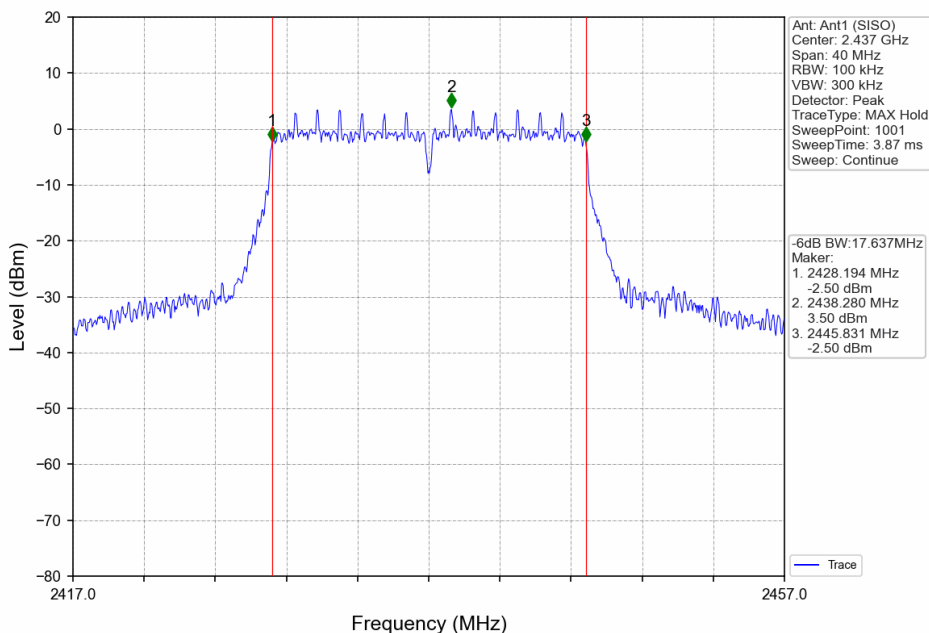
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



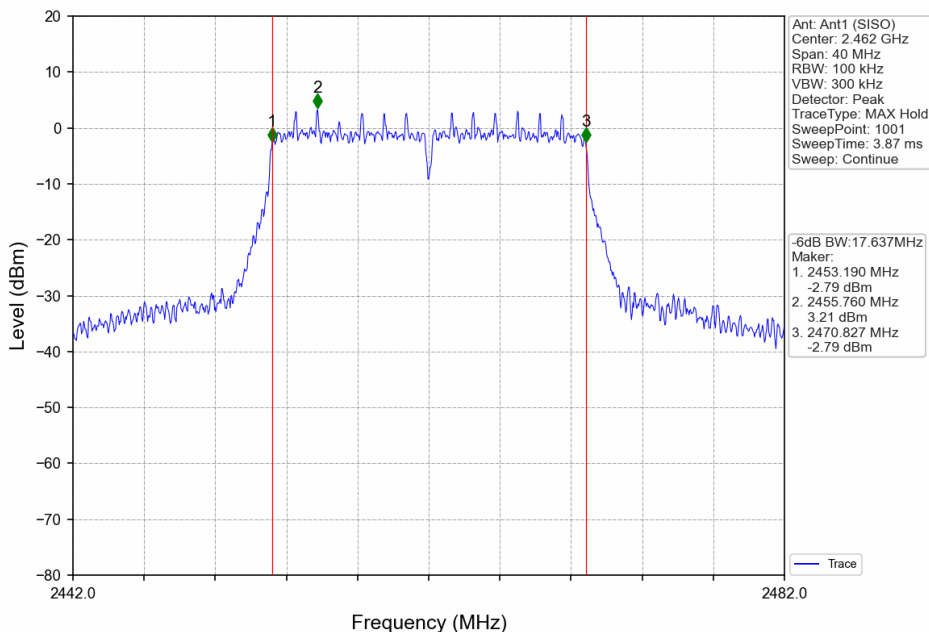
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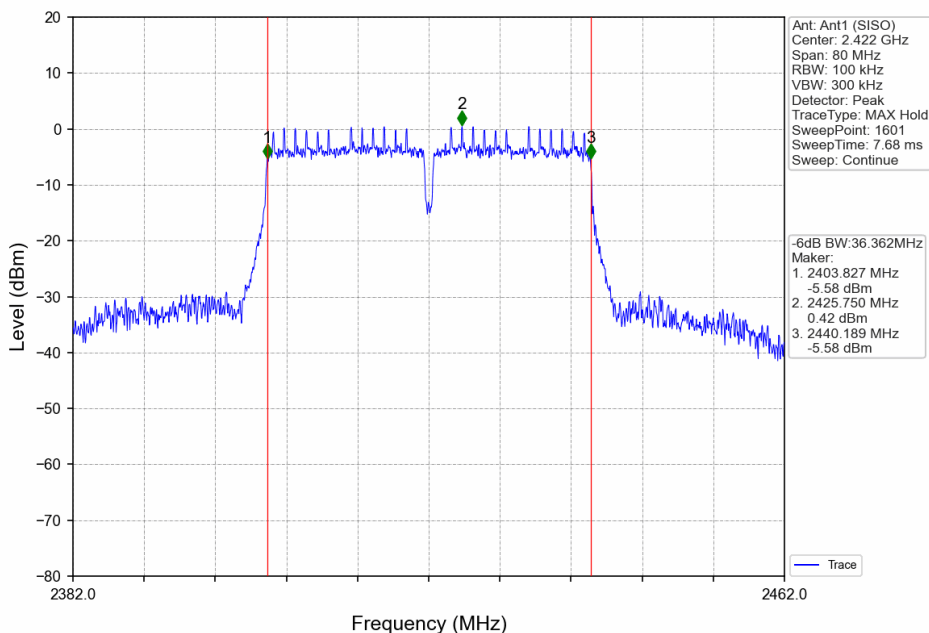
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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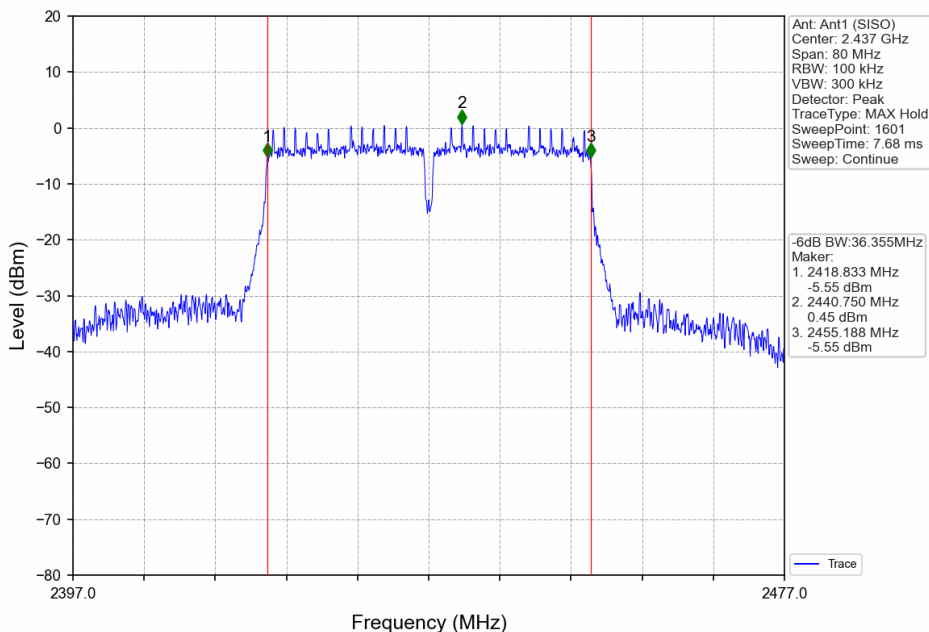
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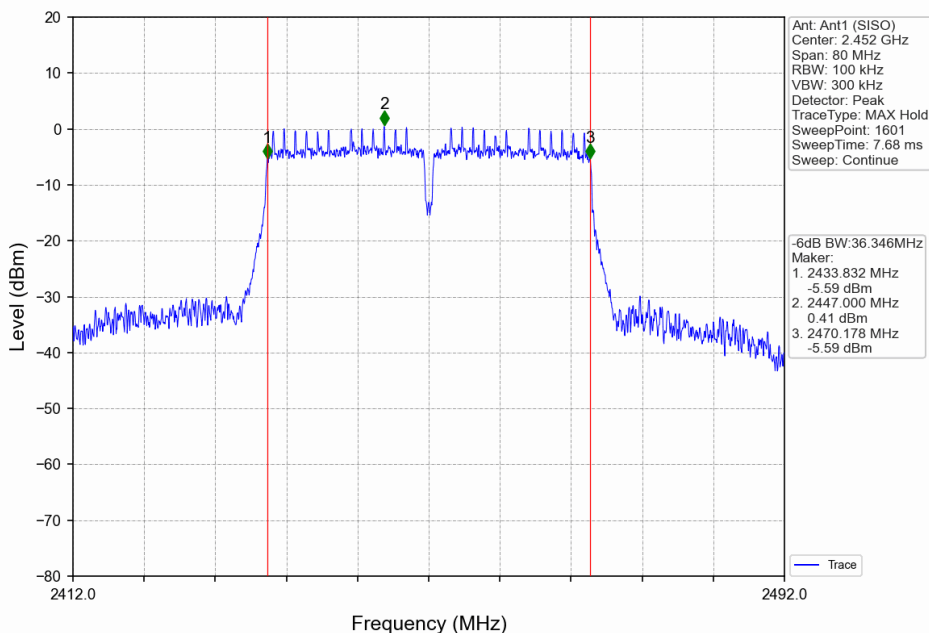
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	15.68	<=30	Pass
		2437	15.57	<=30	Pass
		2462	15.43	<=30	Pass
802.11g	SISO	2412	14.78	<=30	Pass
		2437	14.66	<=30	Pass
		2462	14.50	<=30	Pass
802.11n (HT20)	SISO	2412	14.65	<=30	Pass
		2437	14.55	<=30	Pass
		2462	14.32	<=30	Pass
802.11n (HT40)	SISO	2422	14.72	<=30	Pass
		2437	14.68	<=30	Pass
		2452	14.55	<=30	Pass

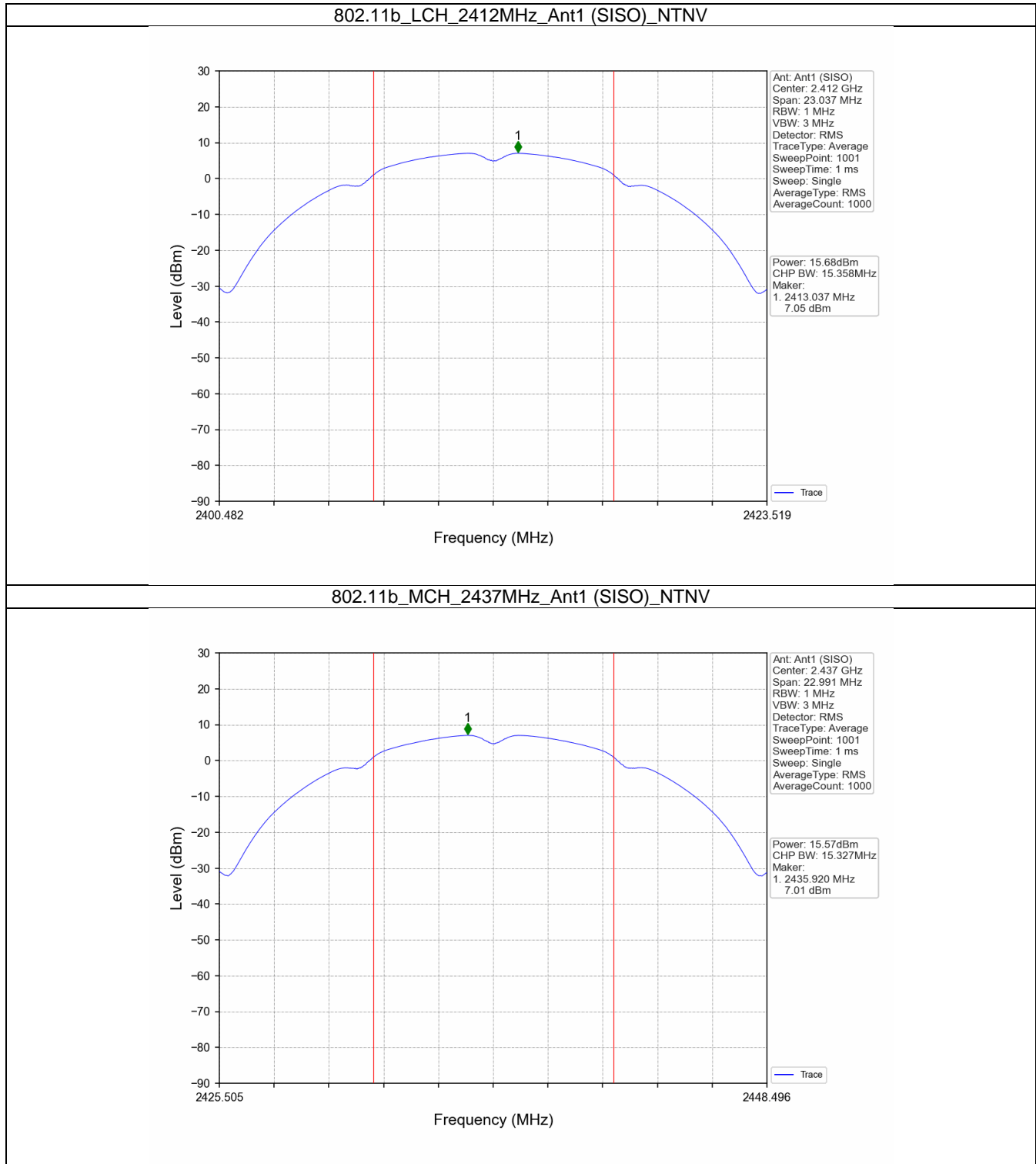
Note1: Antenna Gain: Ant1: 2.64dBi;



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3.1.2 Test Graph



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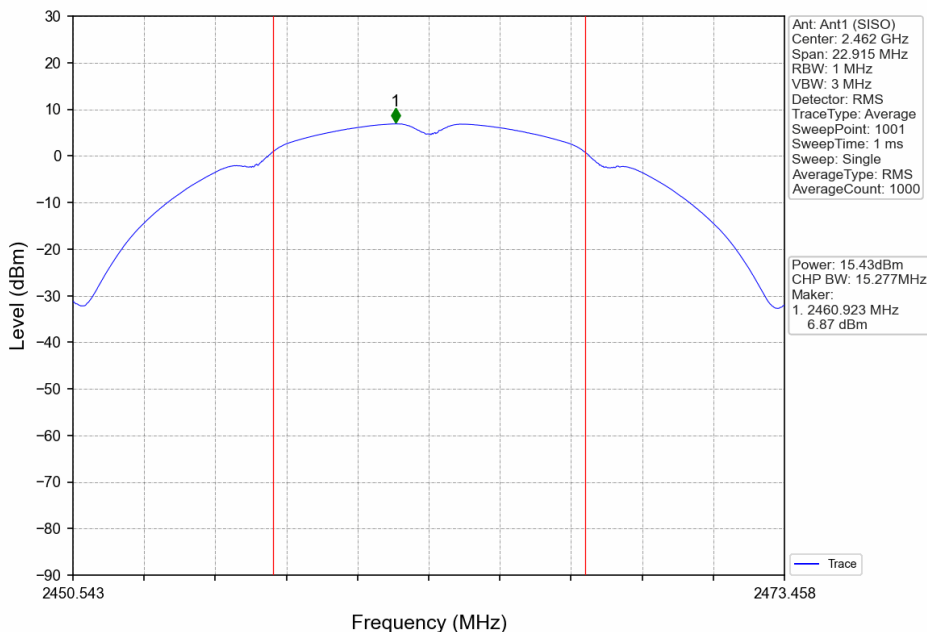
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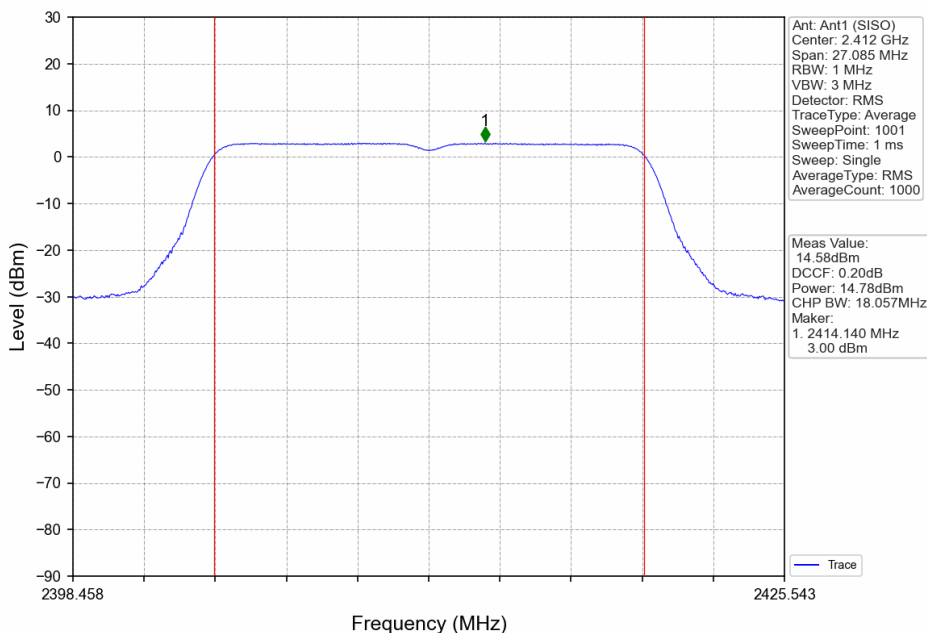
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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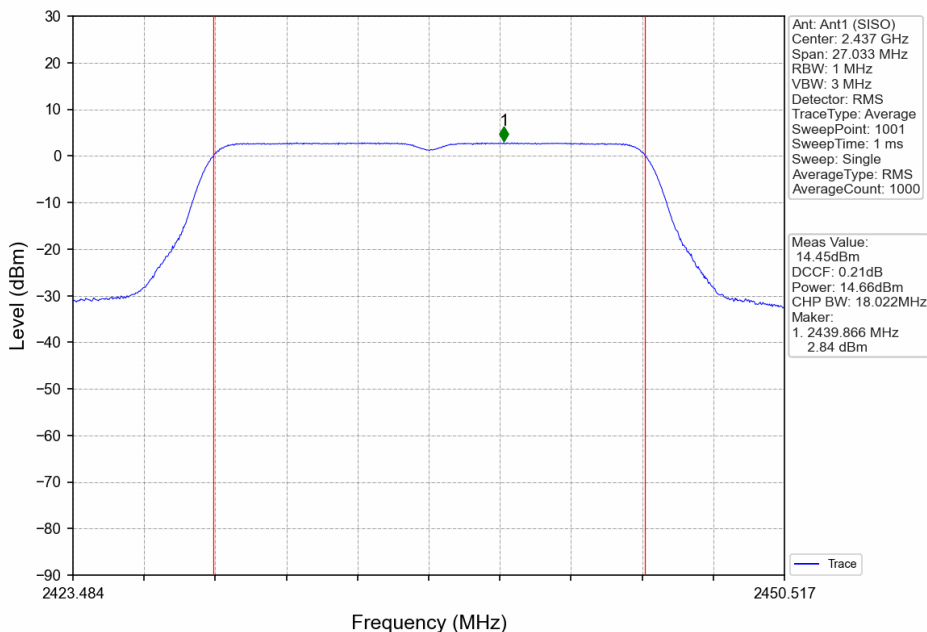
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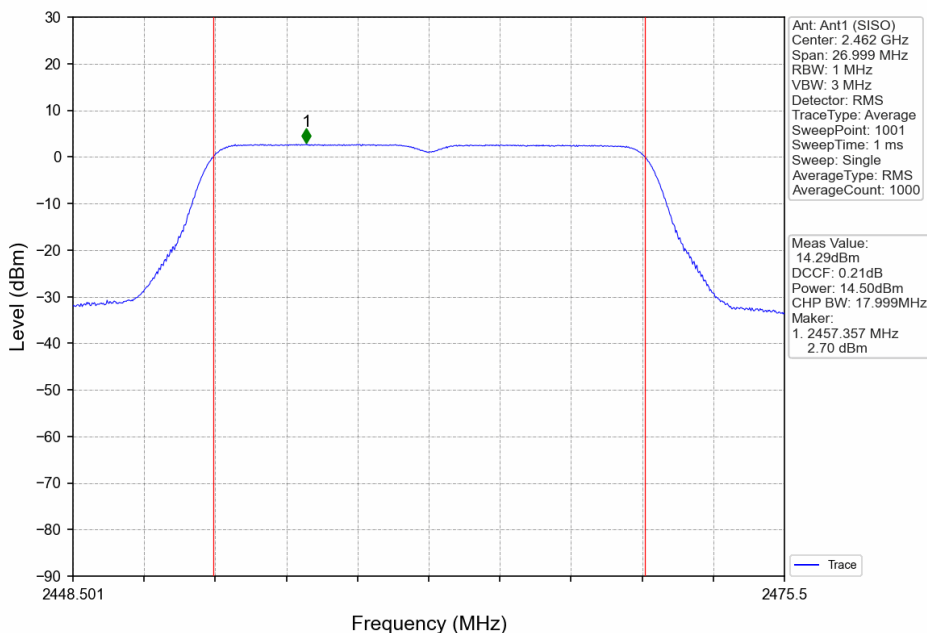
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



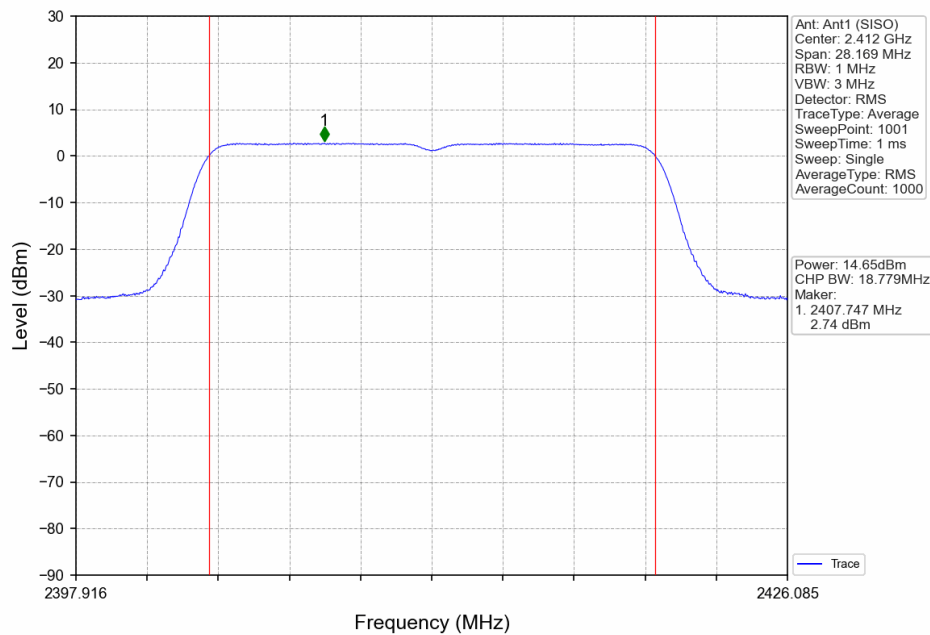
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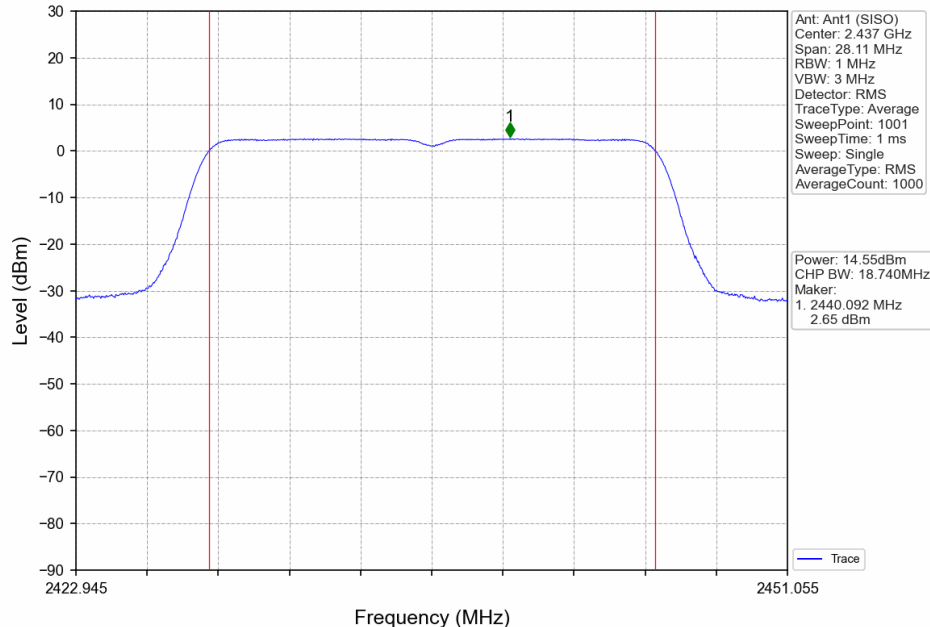
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



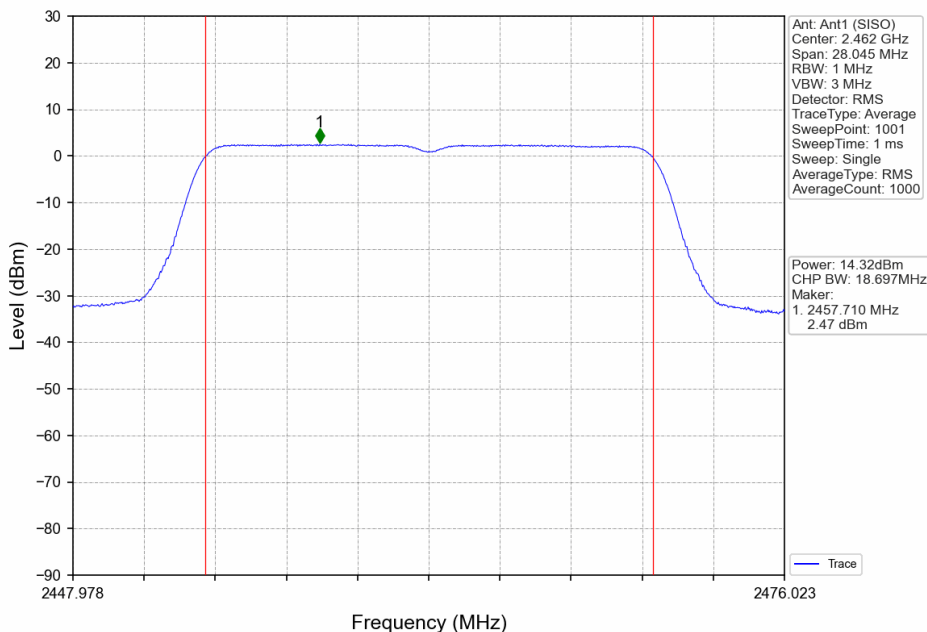
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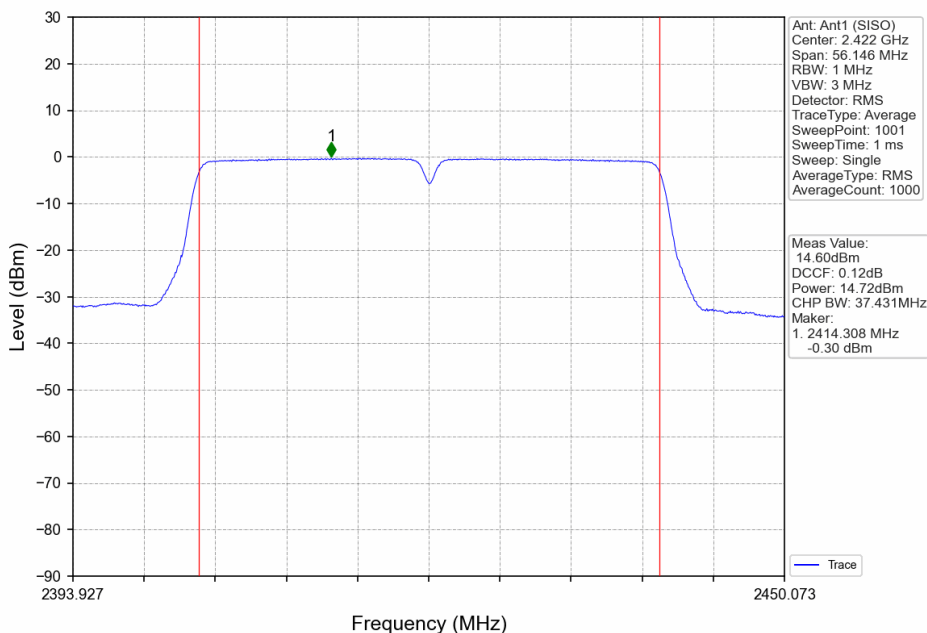
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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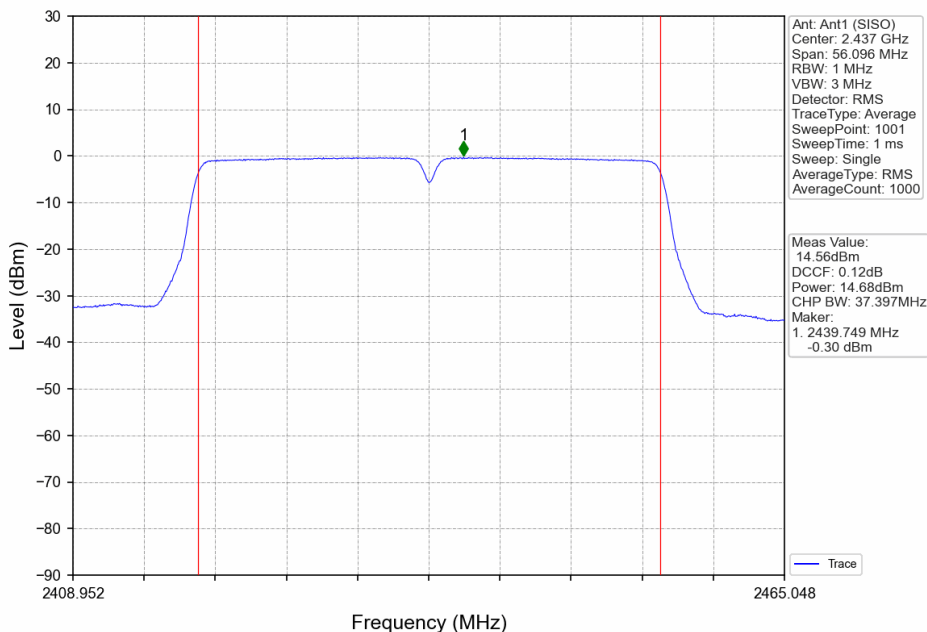
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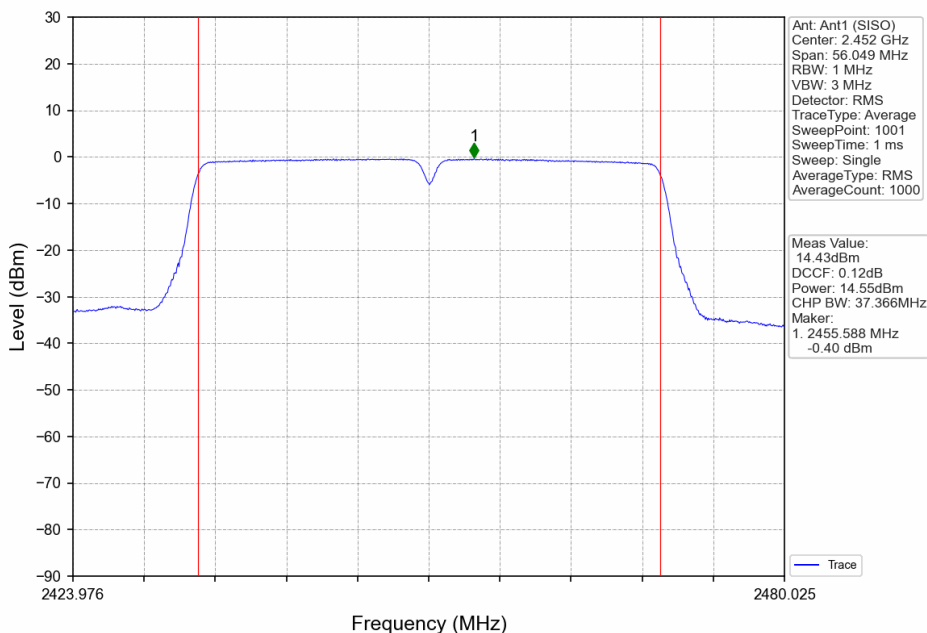
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4. Maximum Power Spectral Density

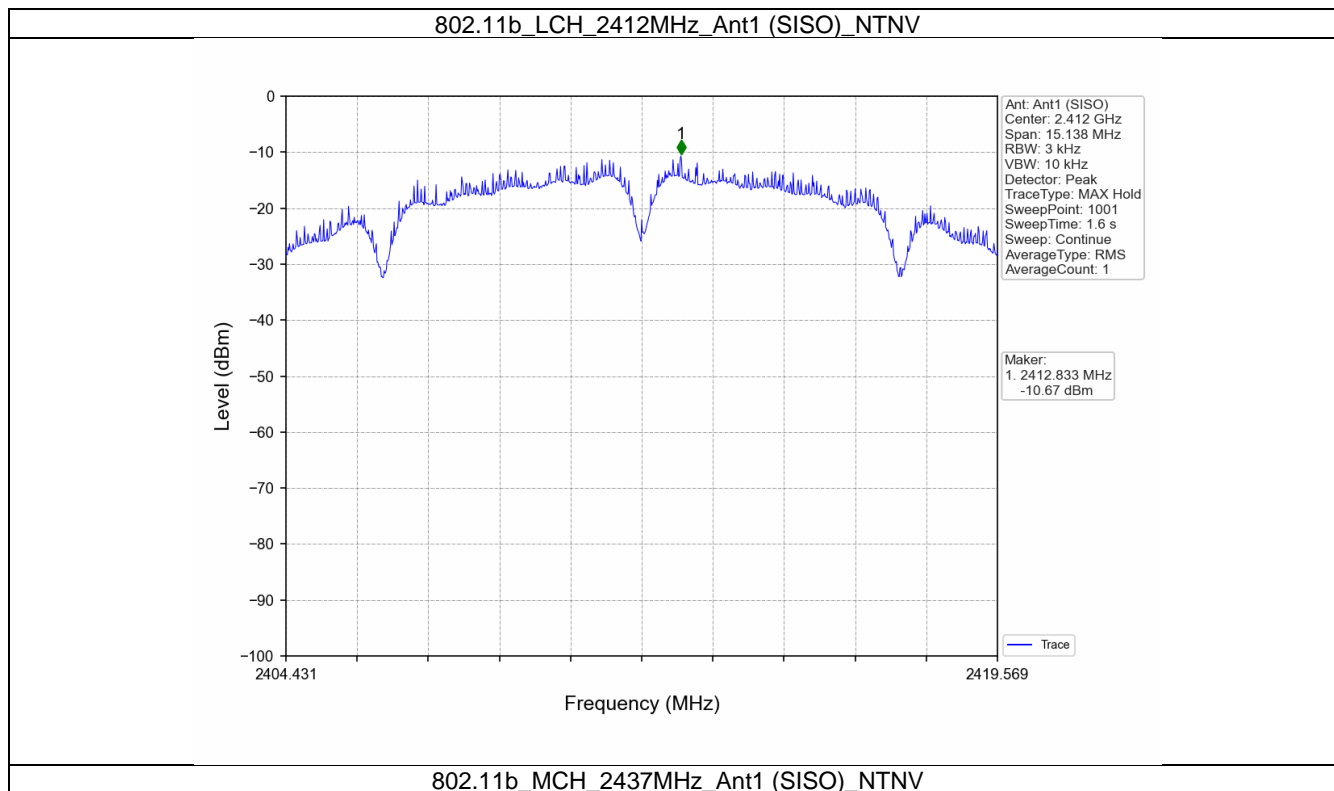
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-10.67	<=8	Pass
		2437	-11.22	<=8	Pass
		2462	-11.60	<=8	Pass
802.11g	SISO	2412	-12.47	<=8	Pass
		2437	-12.58	<=8	Pass
		2462	-13.53	<=8	Pass
802.11n (HT20)	SISO	2412	-13.05	<=8	Pass
		2437	-13.09	<=8	Pass
		2462	-13.06	<=8	Pass
802.11n (HT40)	SISO	2422	-15.37	<=8	Pass
		2437	-14.72	<=8	Pass
		2452	-15.46	<=8	Pass

Note1: Antenna Gain: Ant1: 2.64dBi;

4.1.2 Test Graph

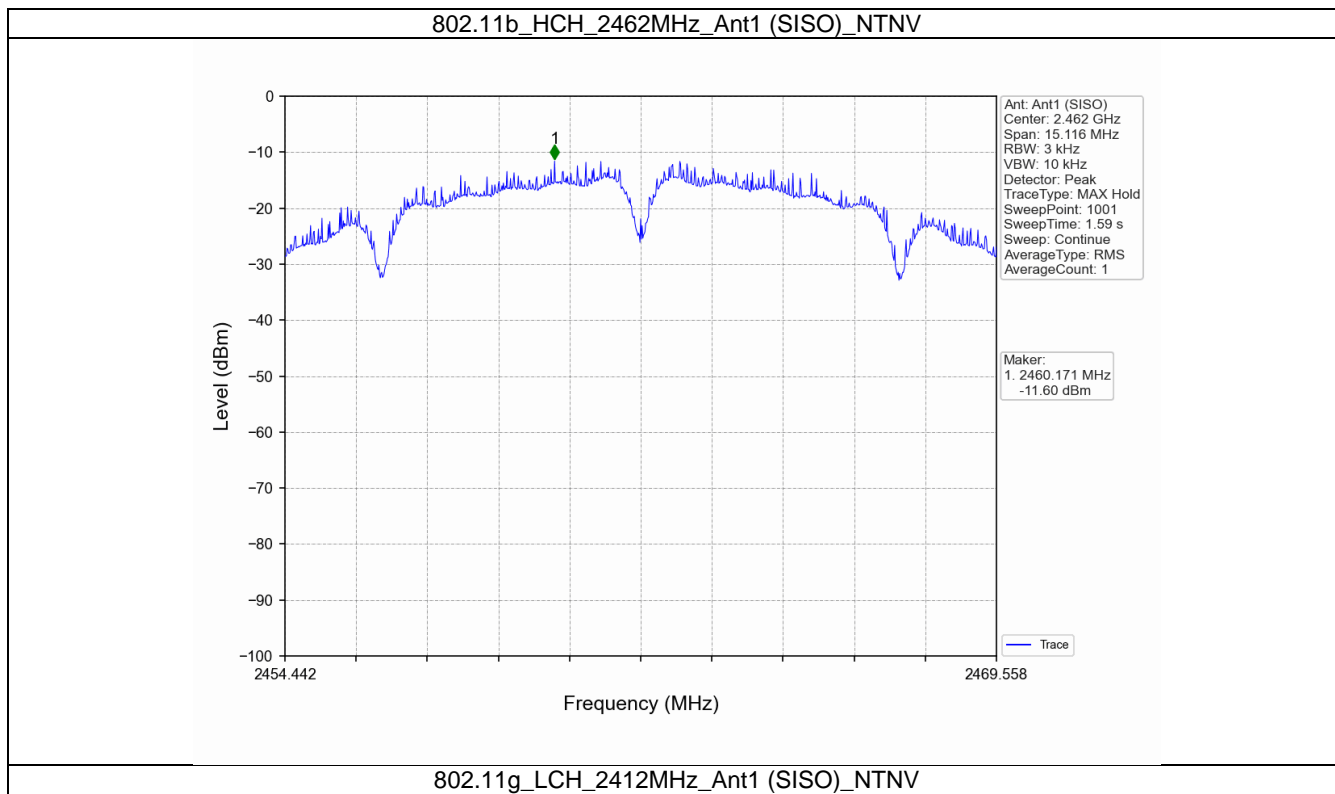
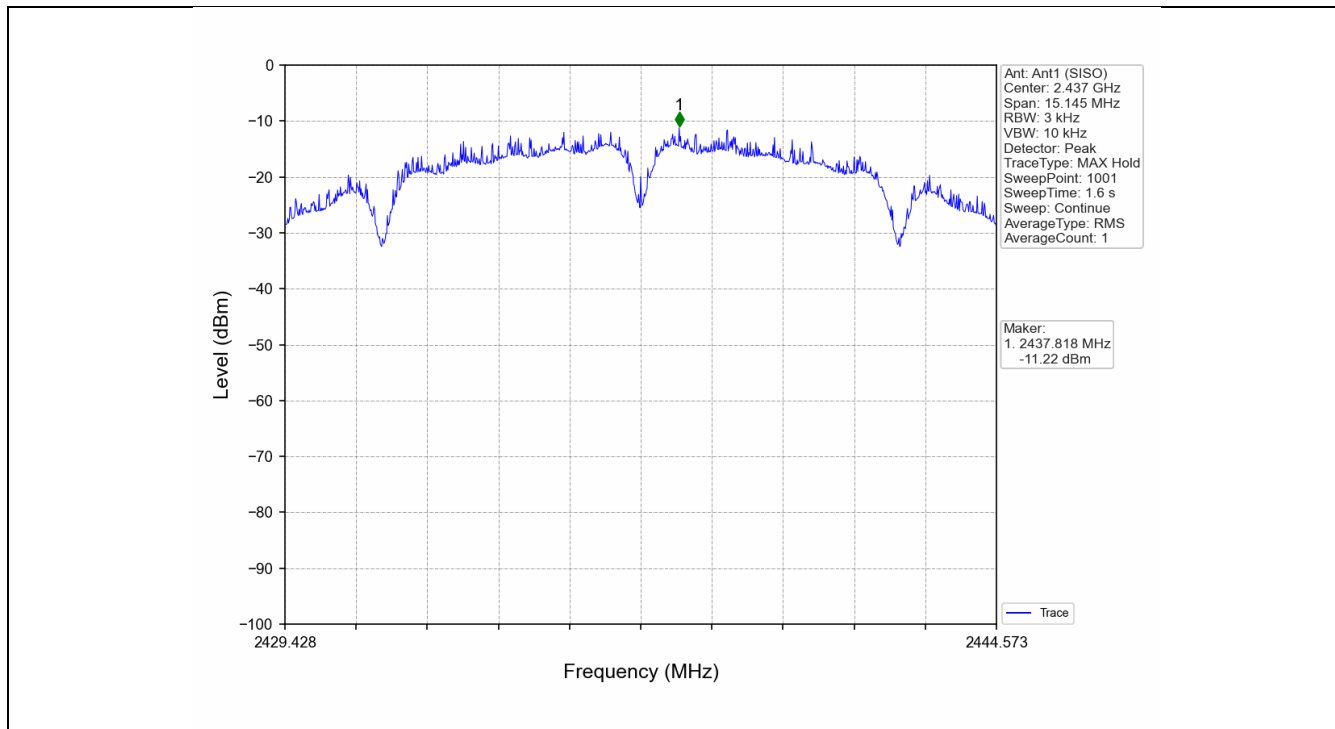


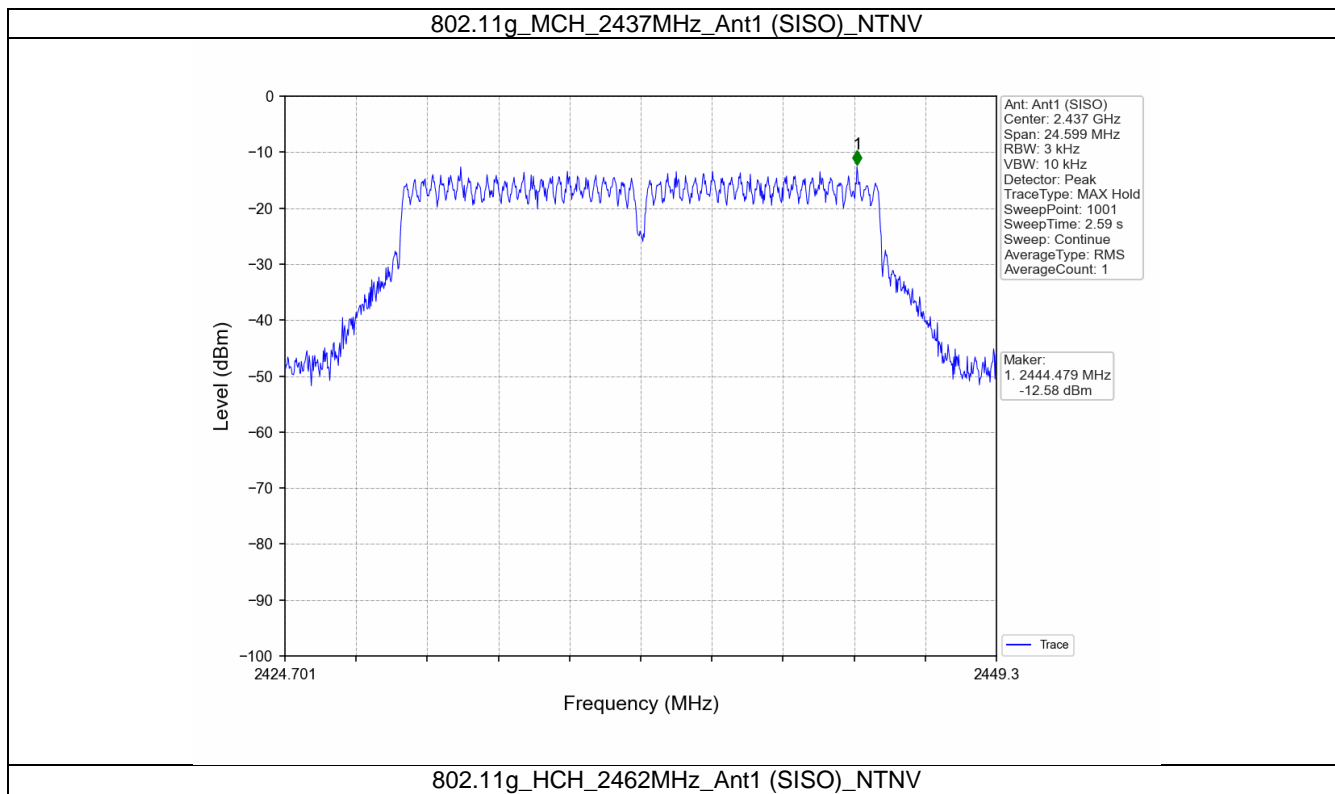
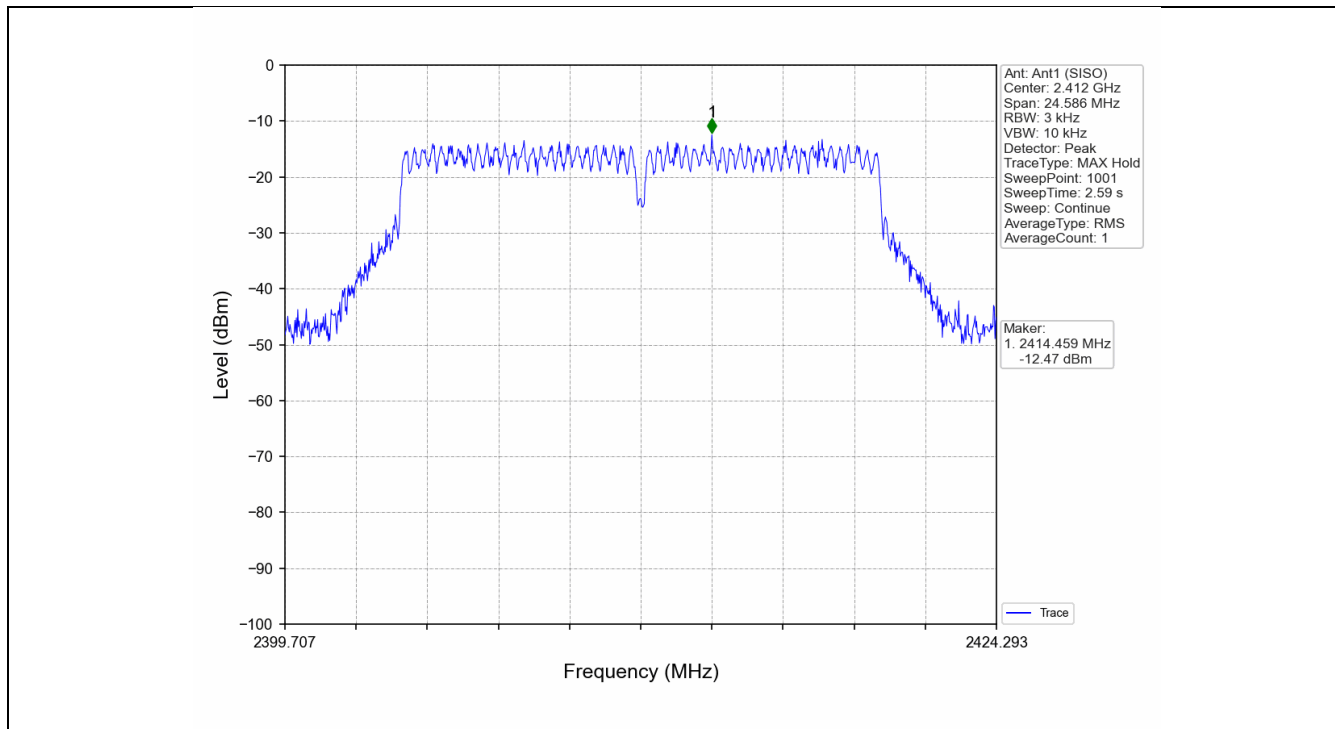
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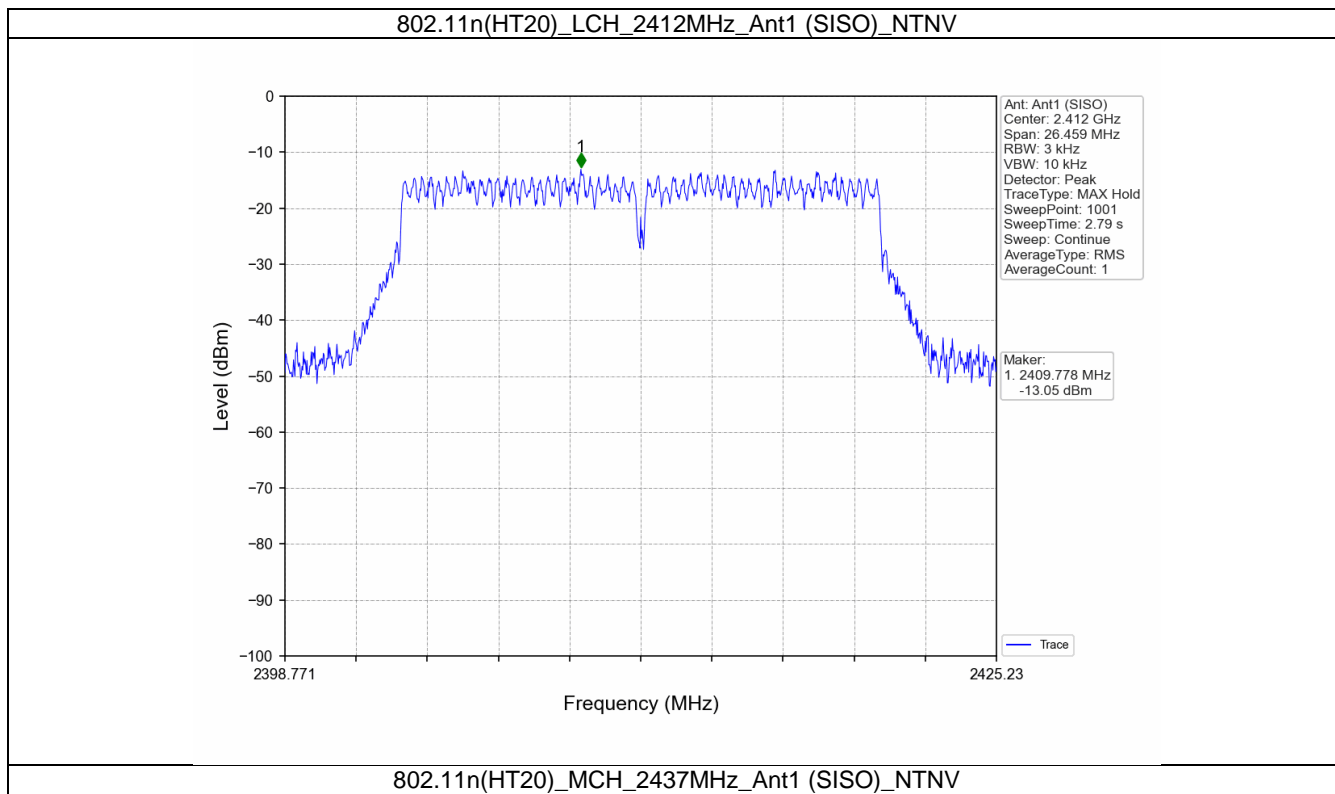
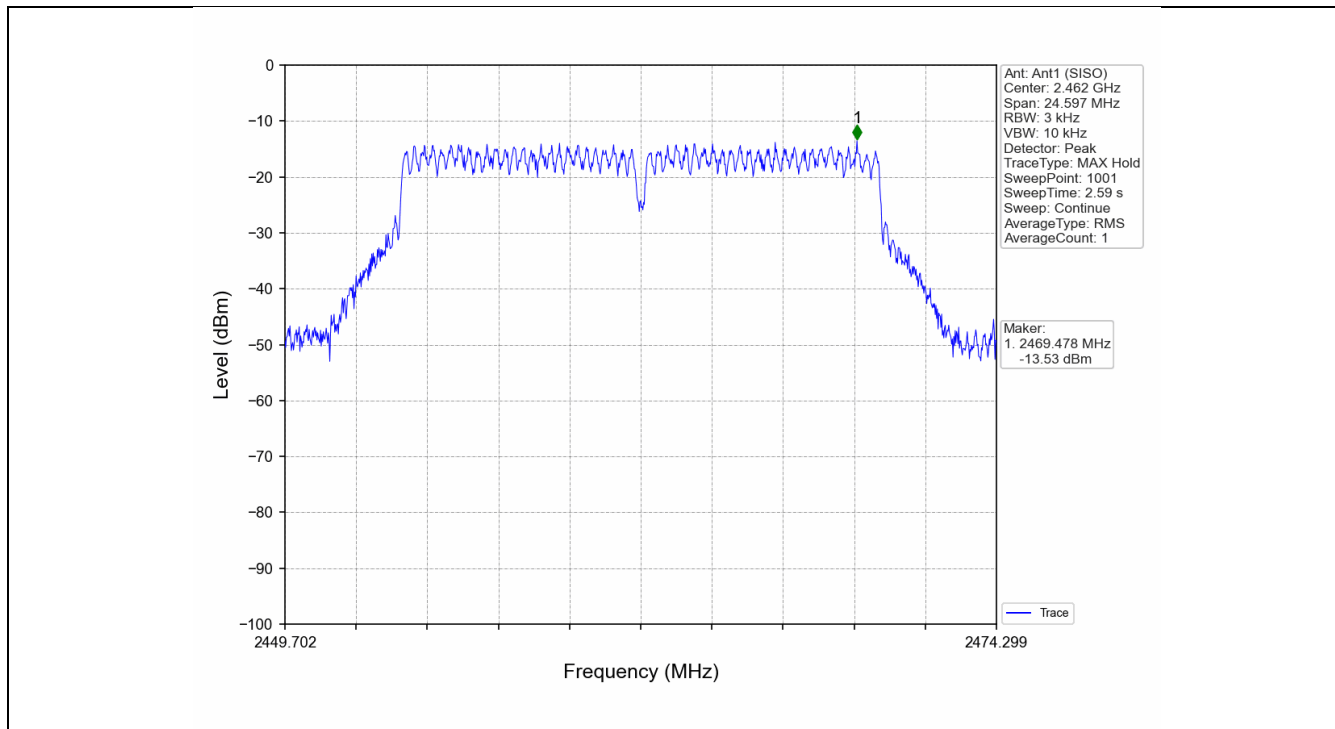
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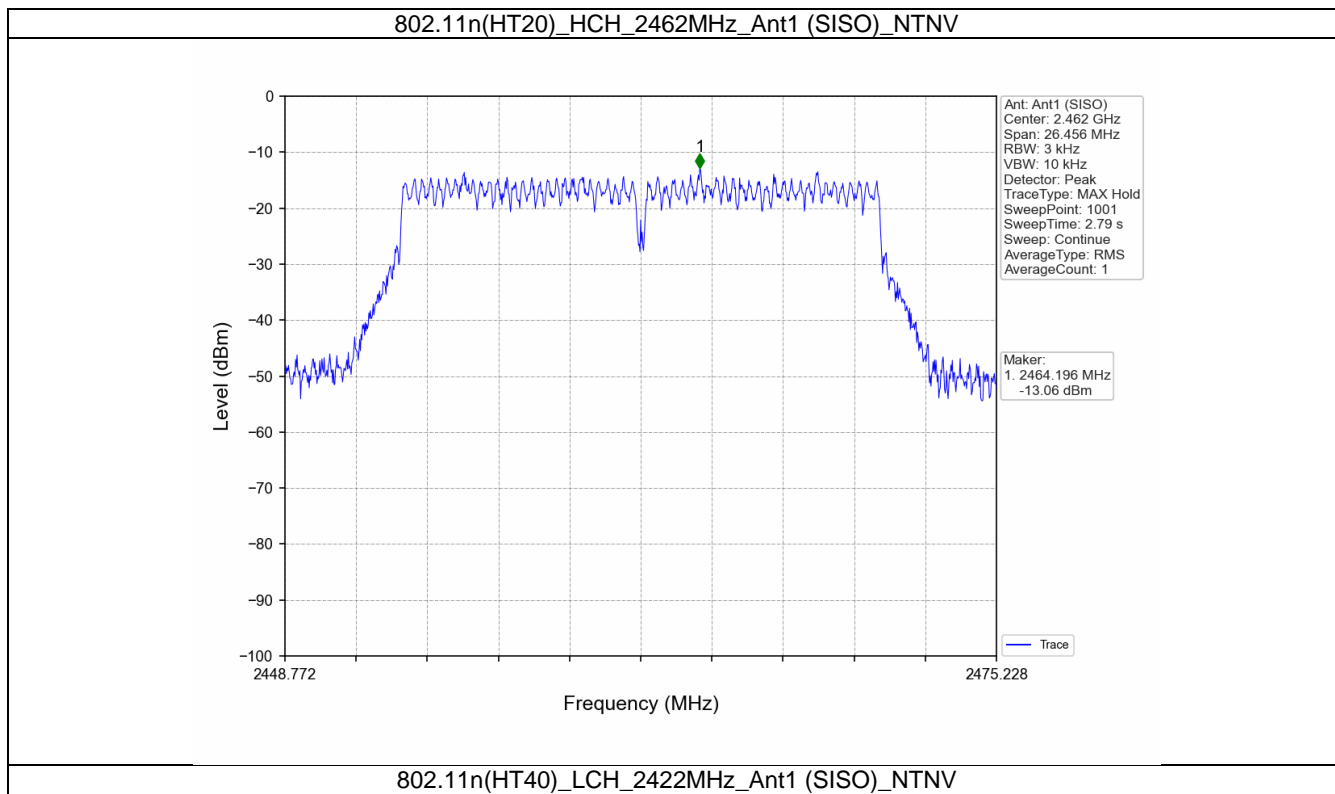
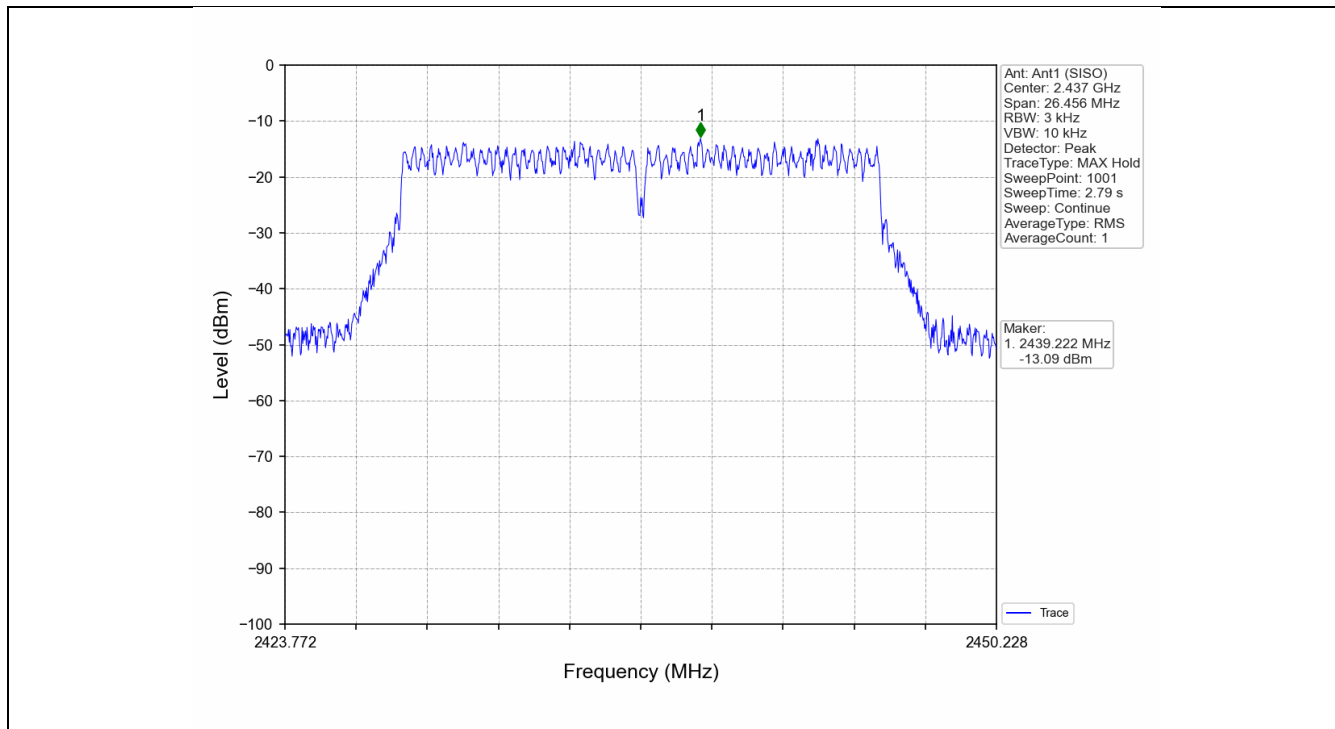
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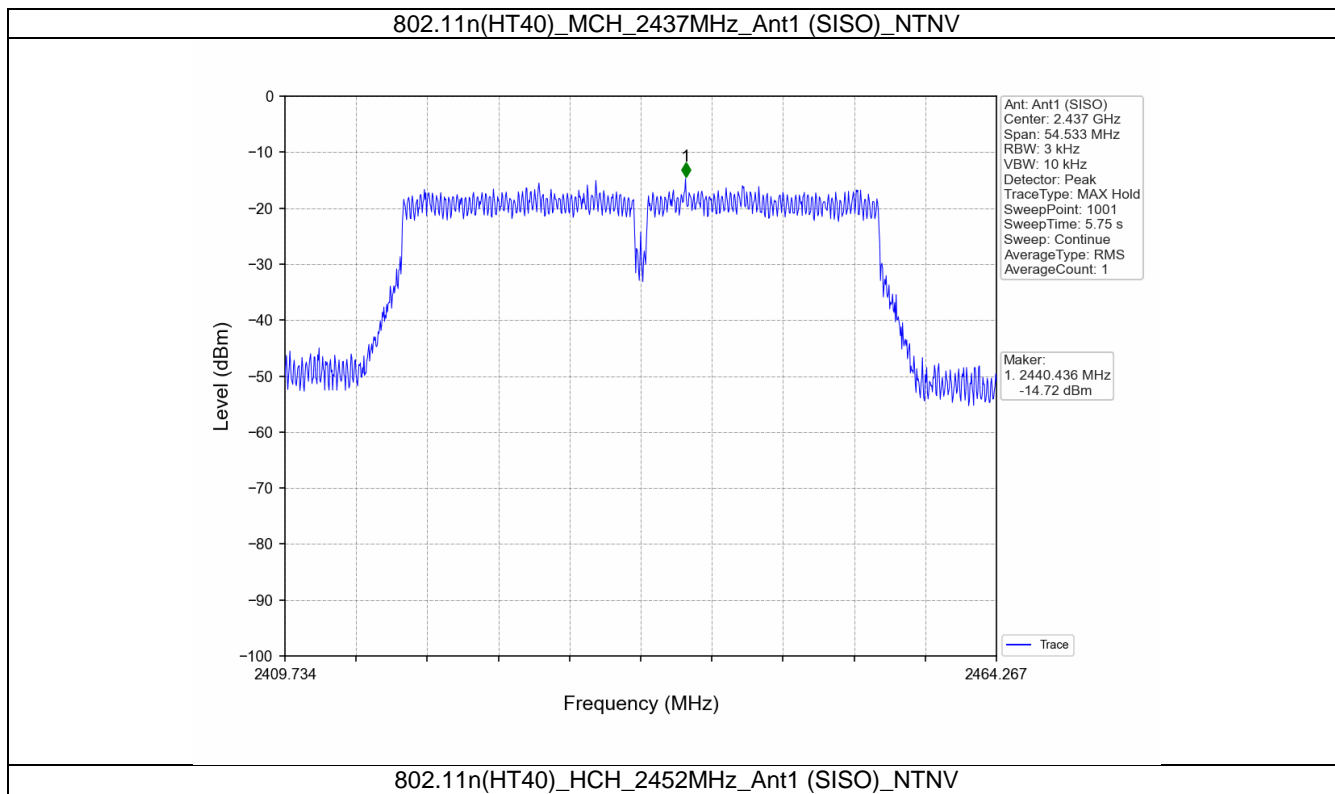
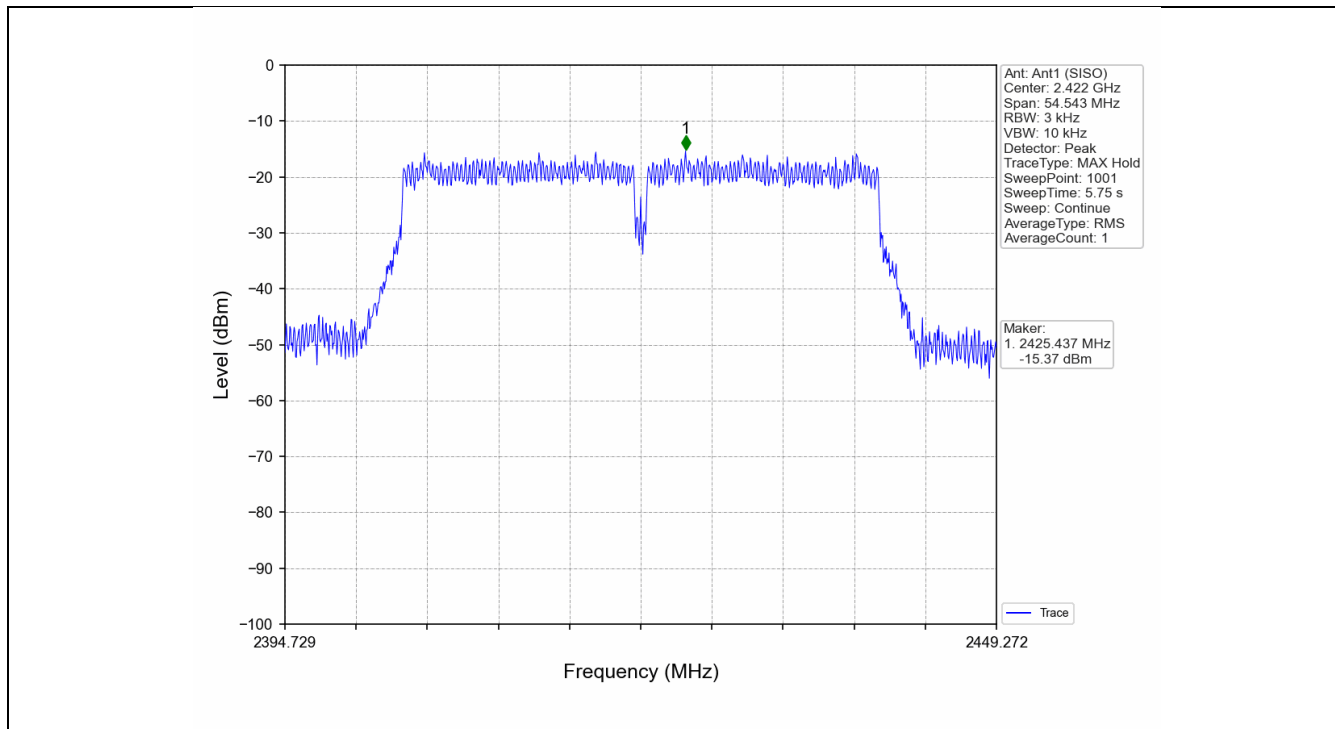
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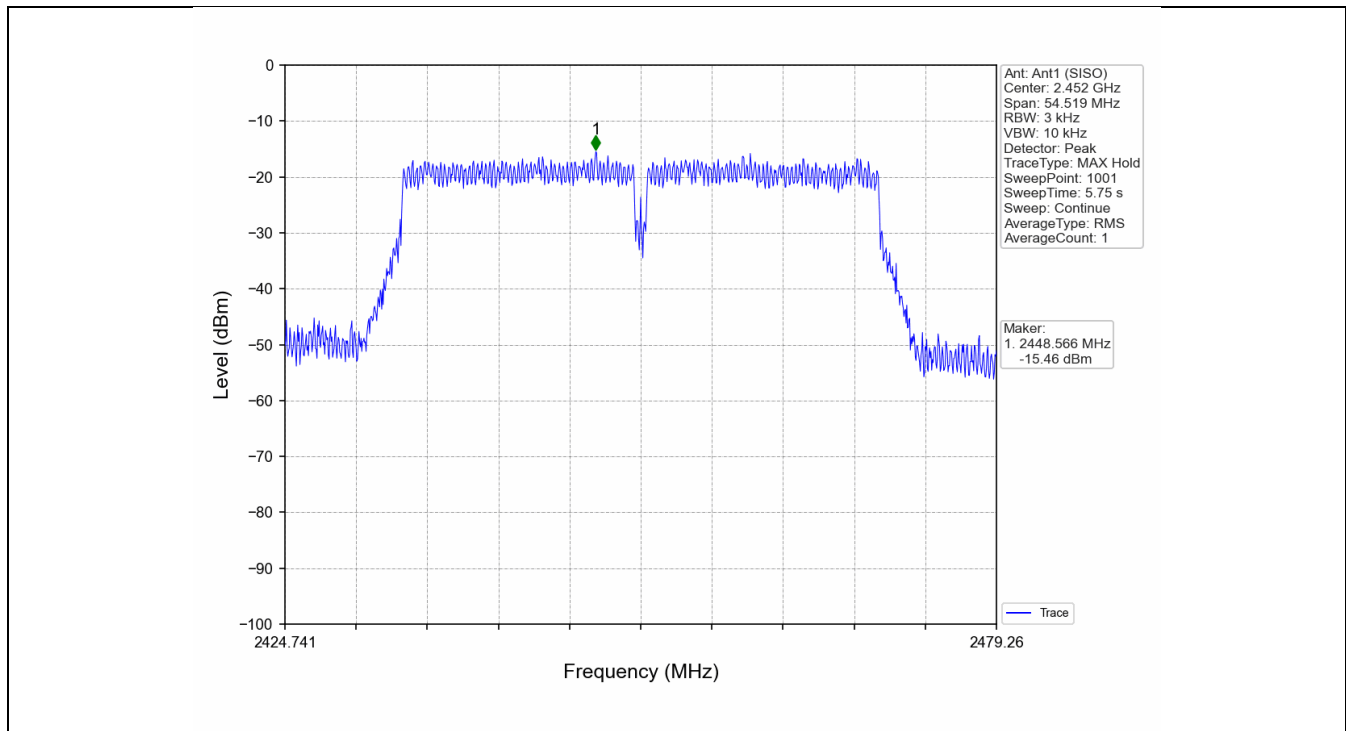












5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	5.76
		2437	1	5.65
		2462	1	5.53
802.11g	SISO	2412	1	0.83
		2437	1	3.37
		2462	1	3.27
802.11n (HT20)	SISO	2412	1	3.25
		2437	1	3.14
		2462	1	3.17
802.11n (HT40)	SISO	2422	1	0.55
		2437	1	0.43
		2452	1	0.17

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.



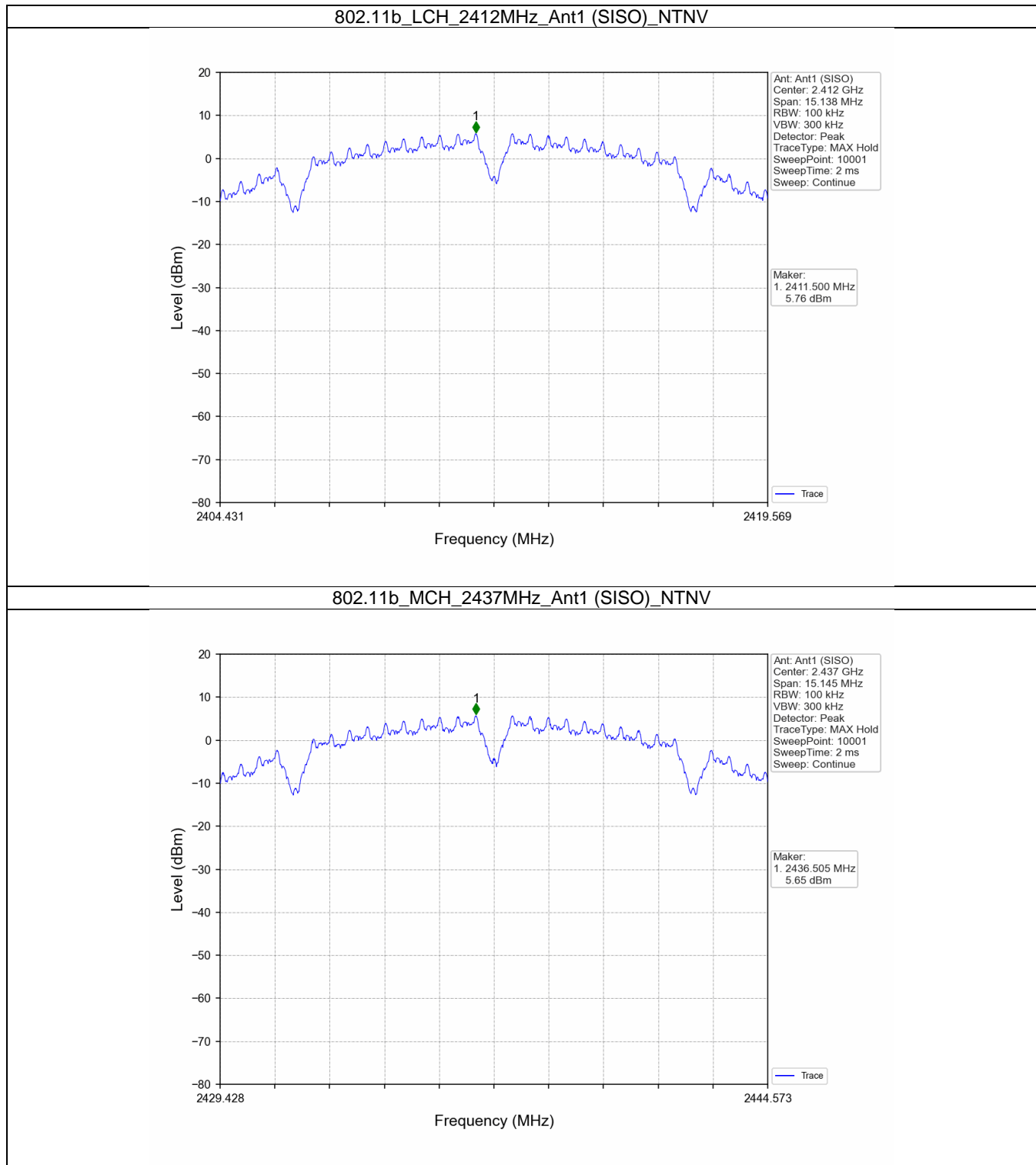
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5.1.2 Test Graph



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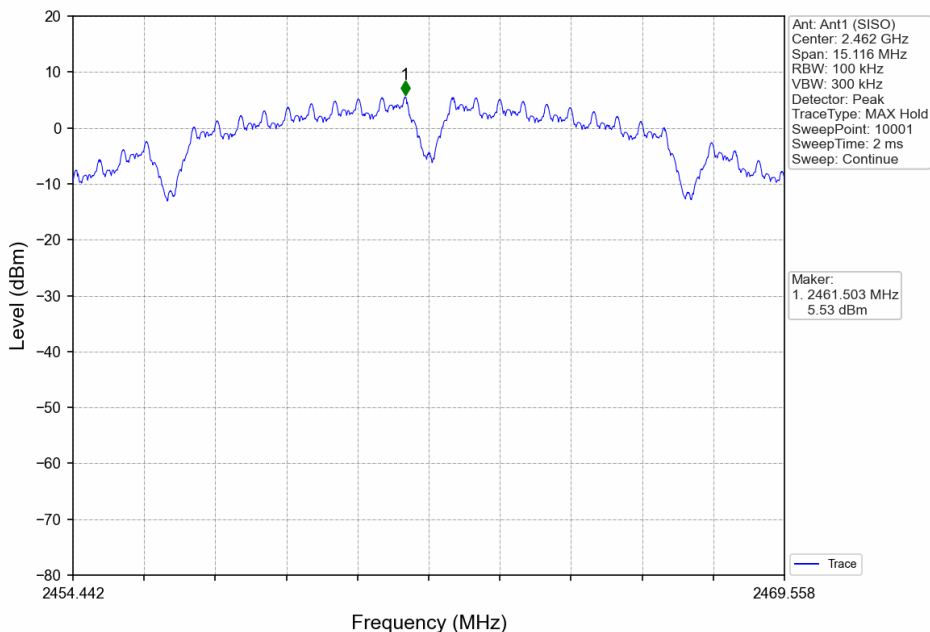
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Testing Center EMC Lab

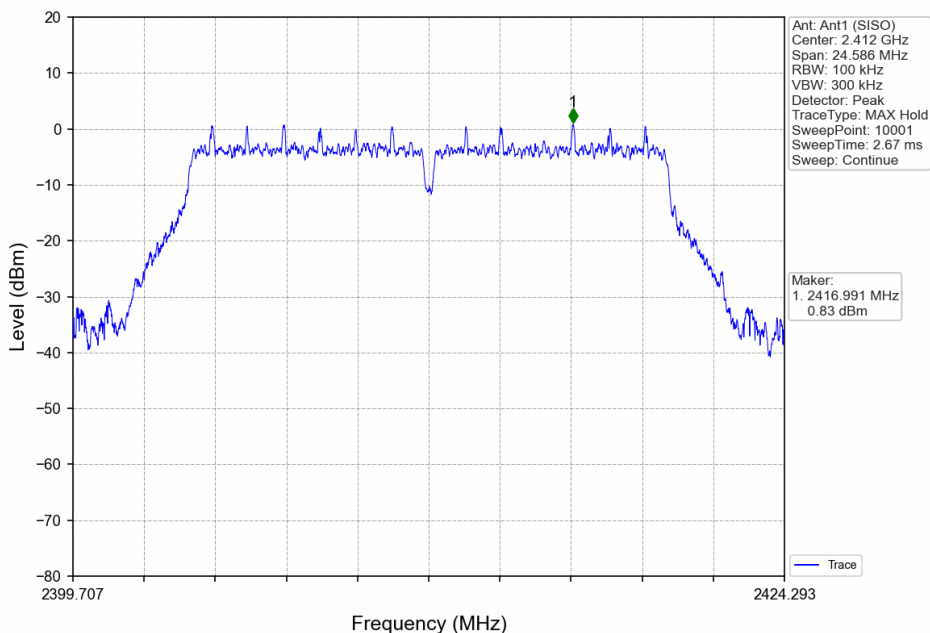
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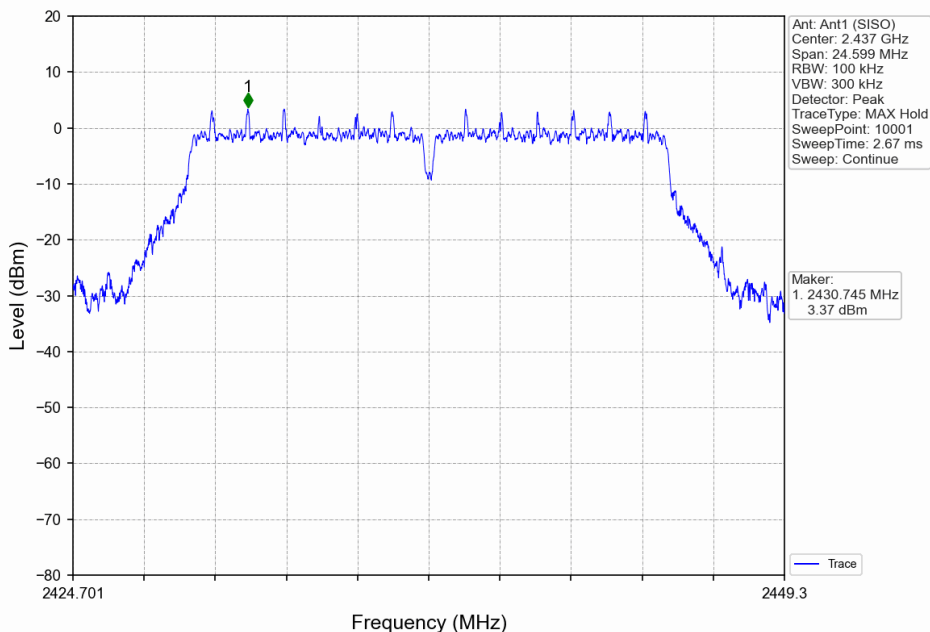
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



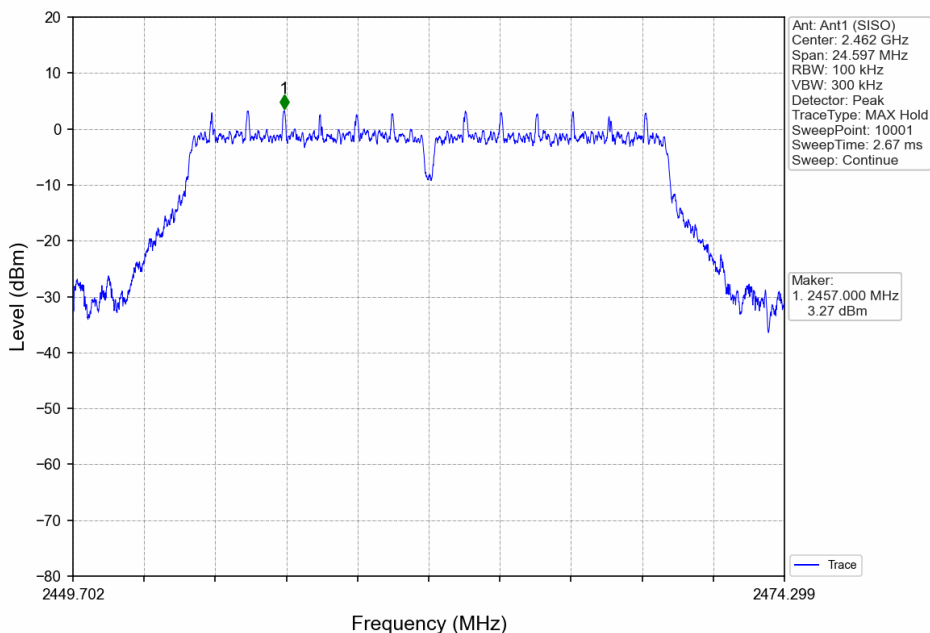
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



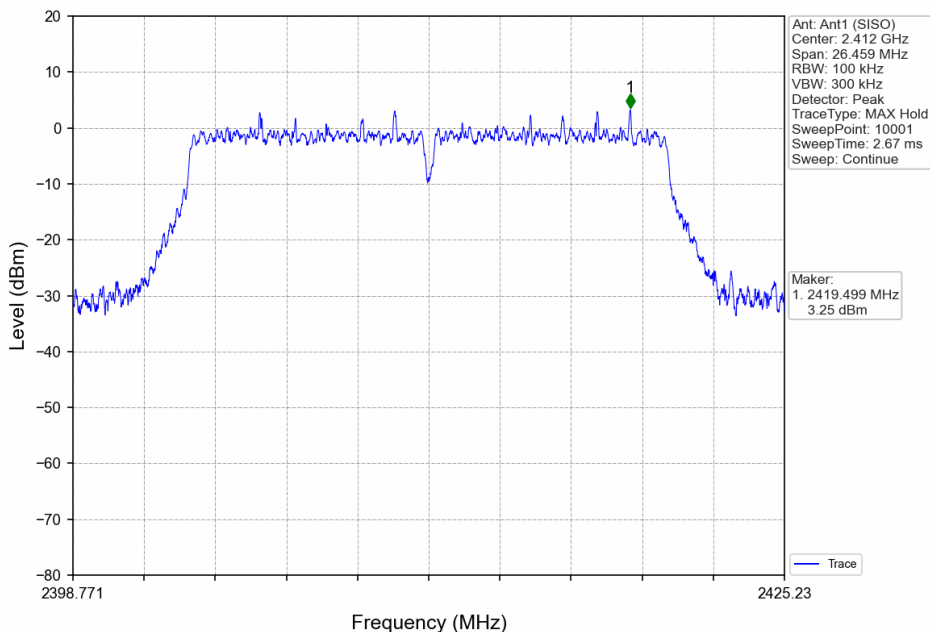
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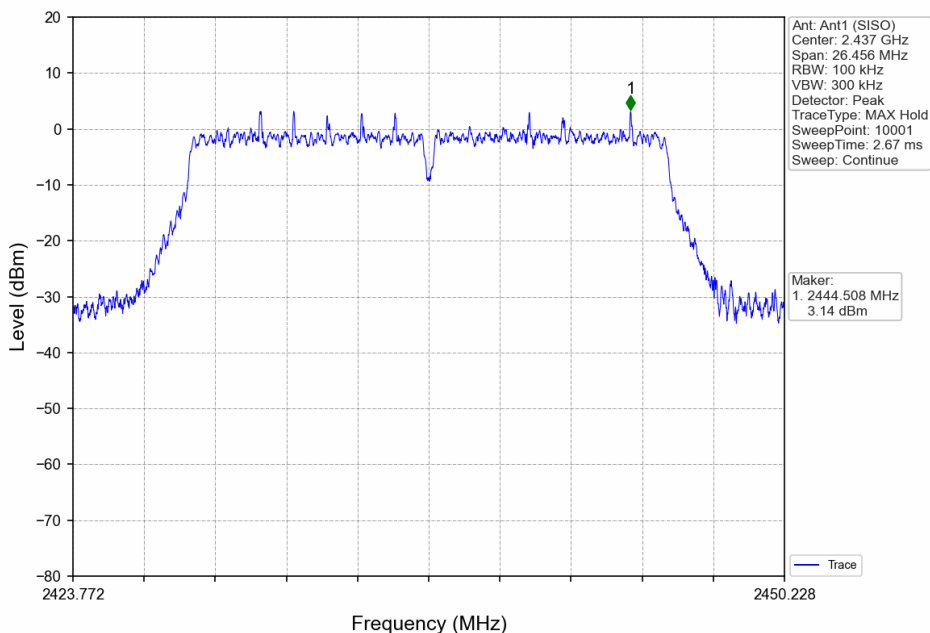
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



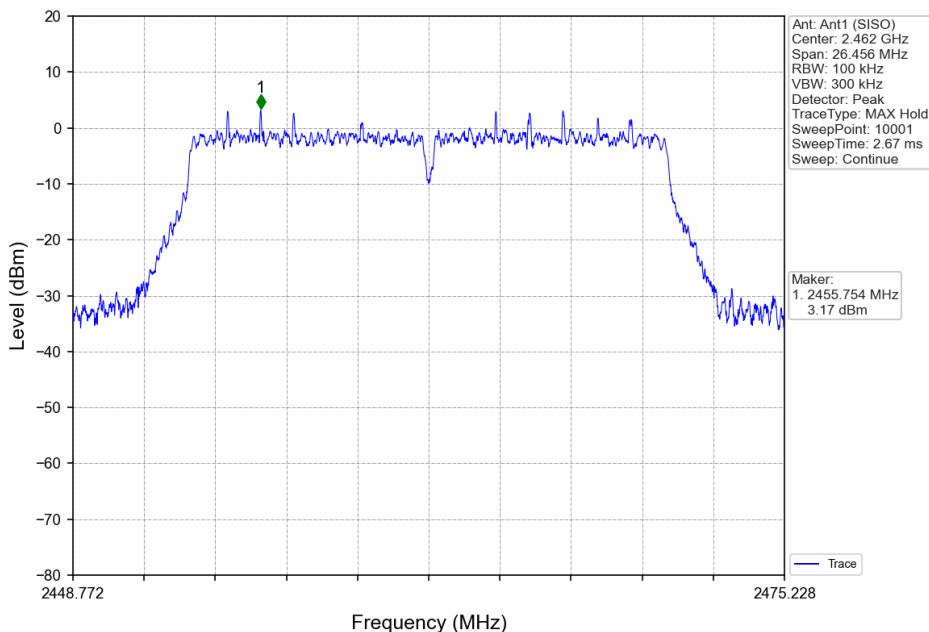
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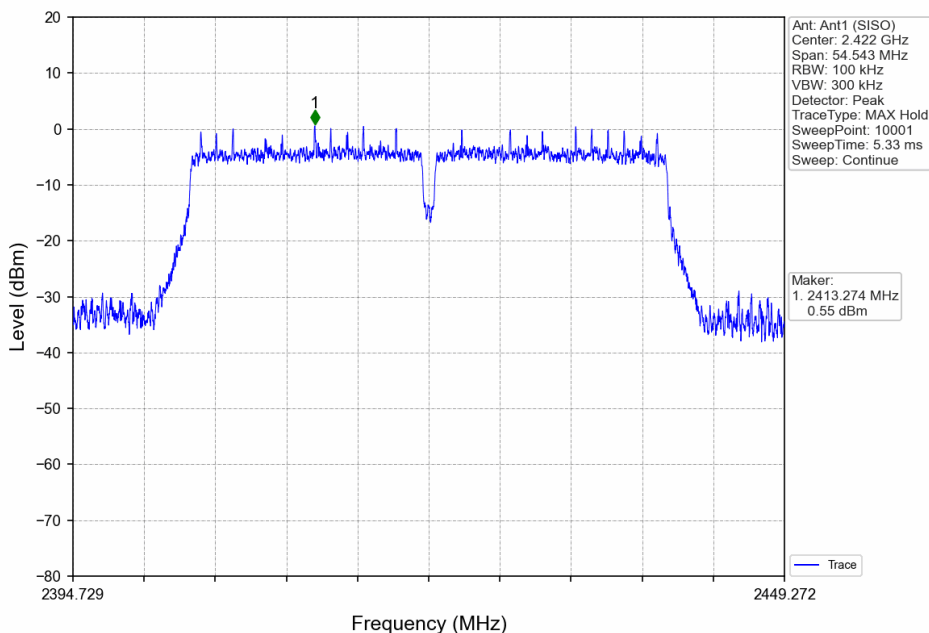
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



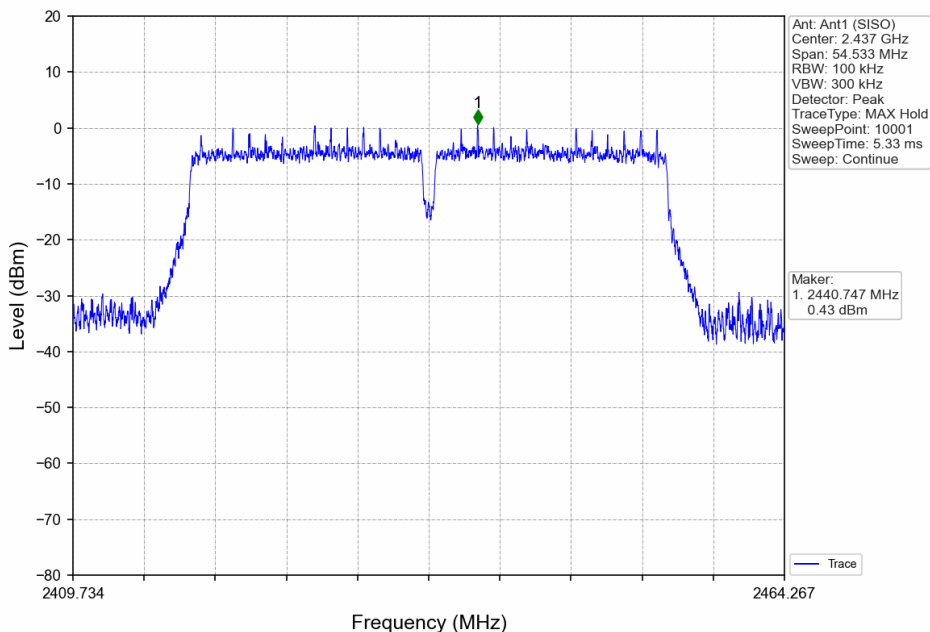
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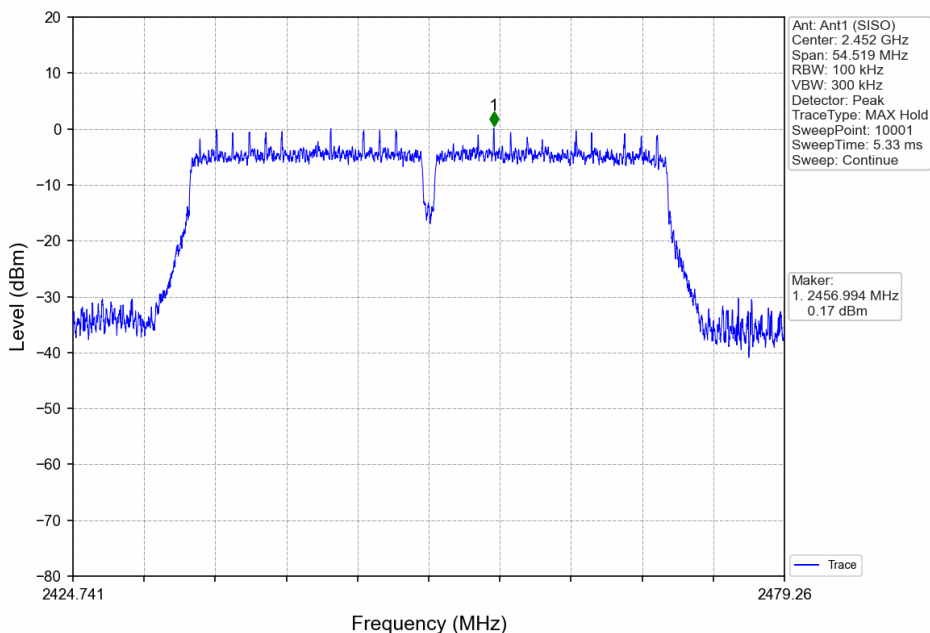
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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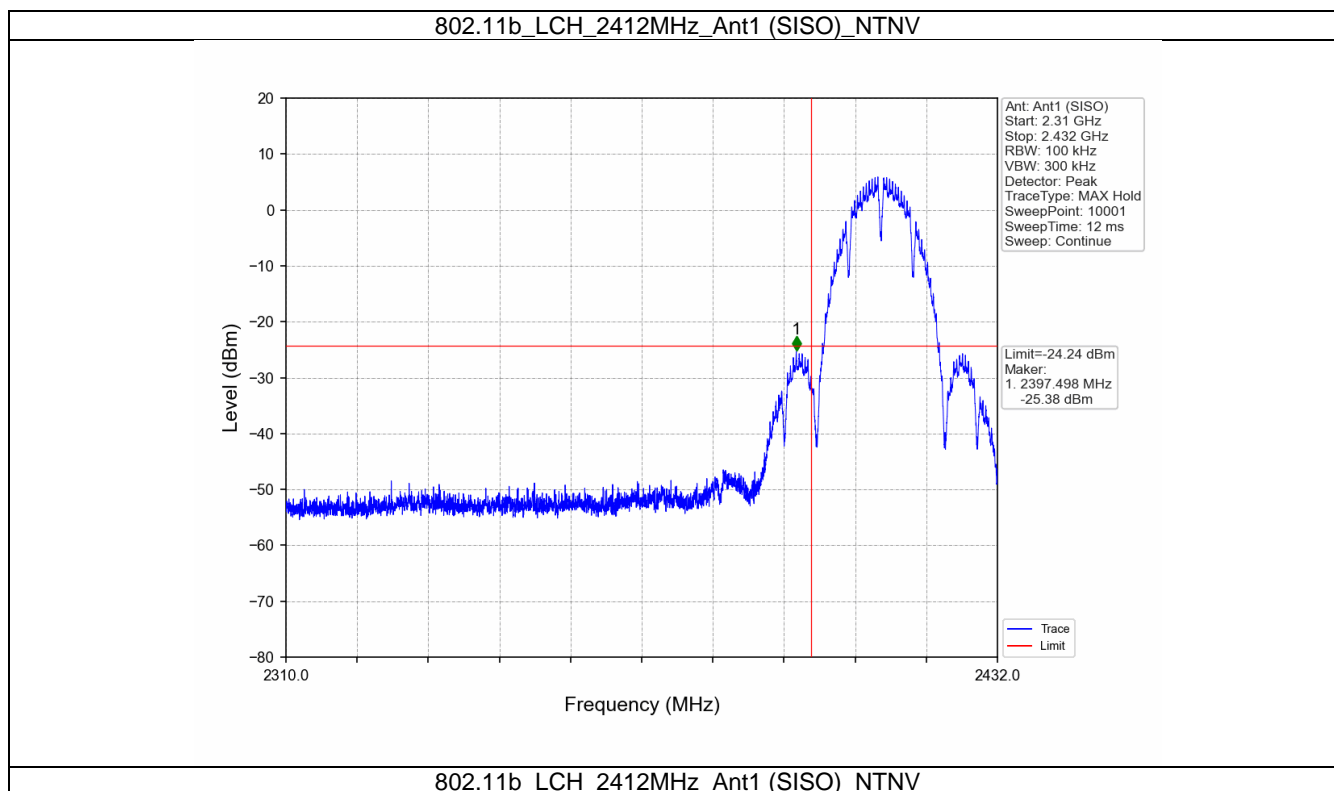
5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.76	-24.24	Pass
		2437	1	5.76	-24.24	Pass
		2462	1	5.76	-24.24	Pass
802.11g	SISO	2412	1	3.37	-26.63	Pass
		2437	1	3.37	-26.63	Pass
		2462	1	3.37	-26.63	Pass
802.11n (HT20)	SISO	2412	1	3.25	-26.75	Pass
		2437	1	3.25	-26.75	Pass
		2462	1	3.25	-26.75	Pass
802.11n (HT40)	SISO	2422	1	0.55	-29.45	Pass
		2437	1	0.55	-29.45	Pass
		2452	1	0.55	-29.45	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.

5.2.2 Test Graph

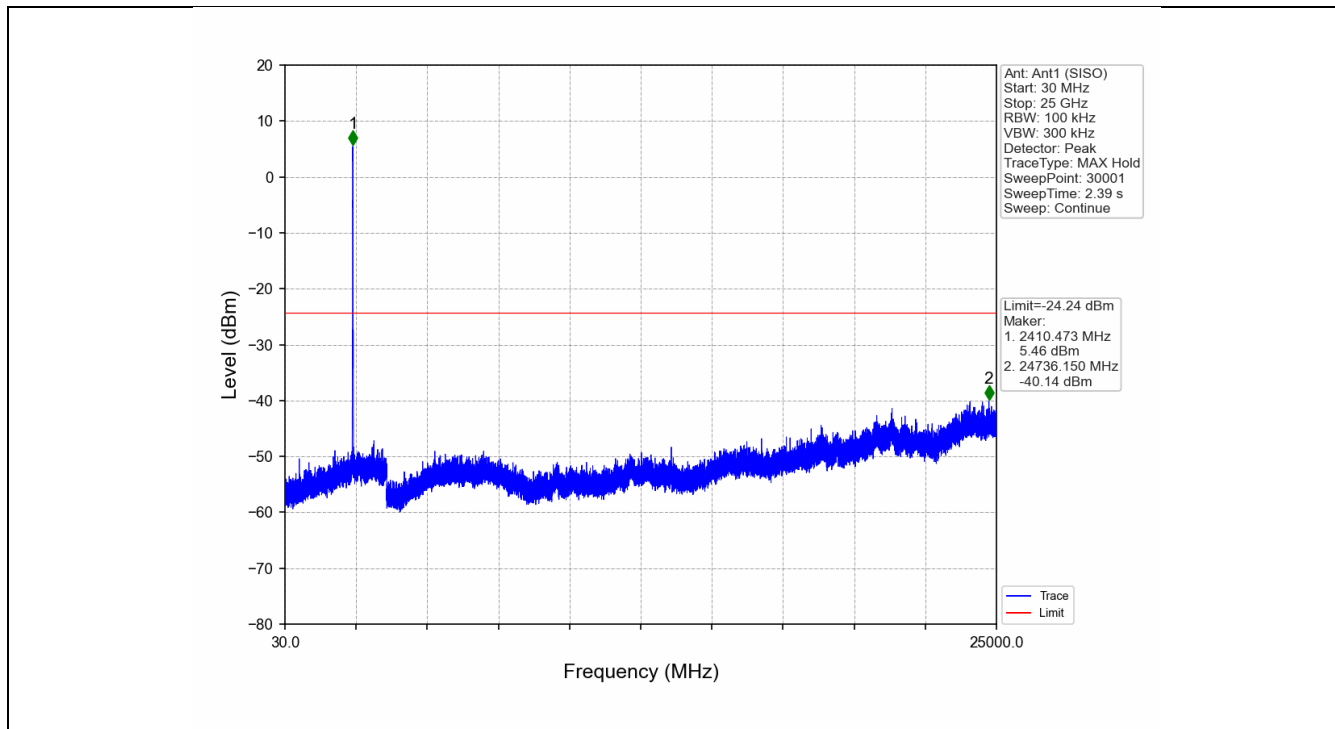


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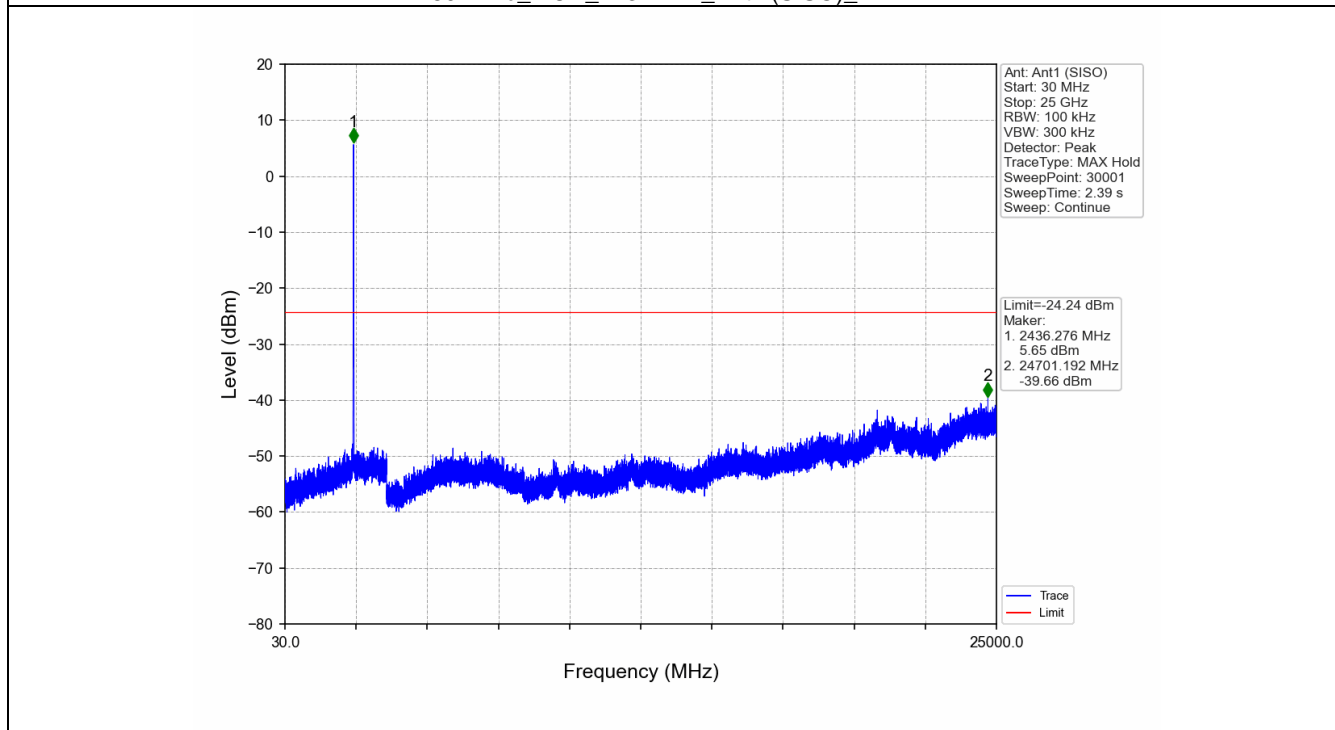
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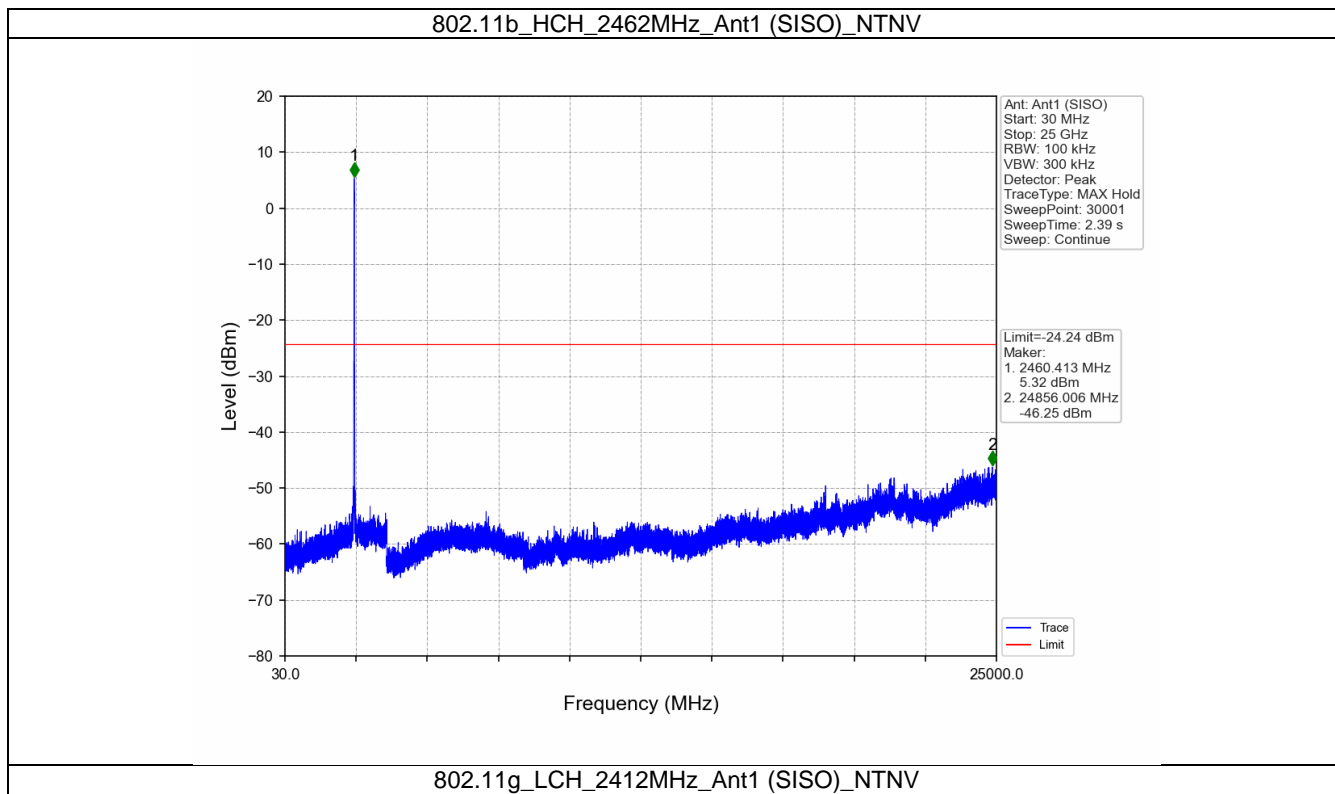
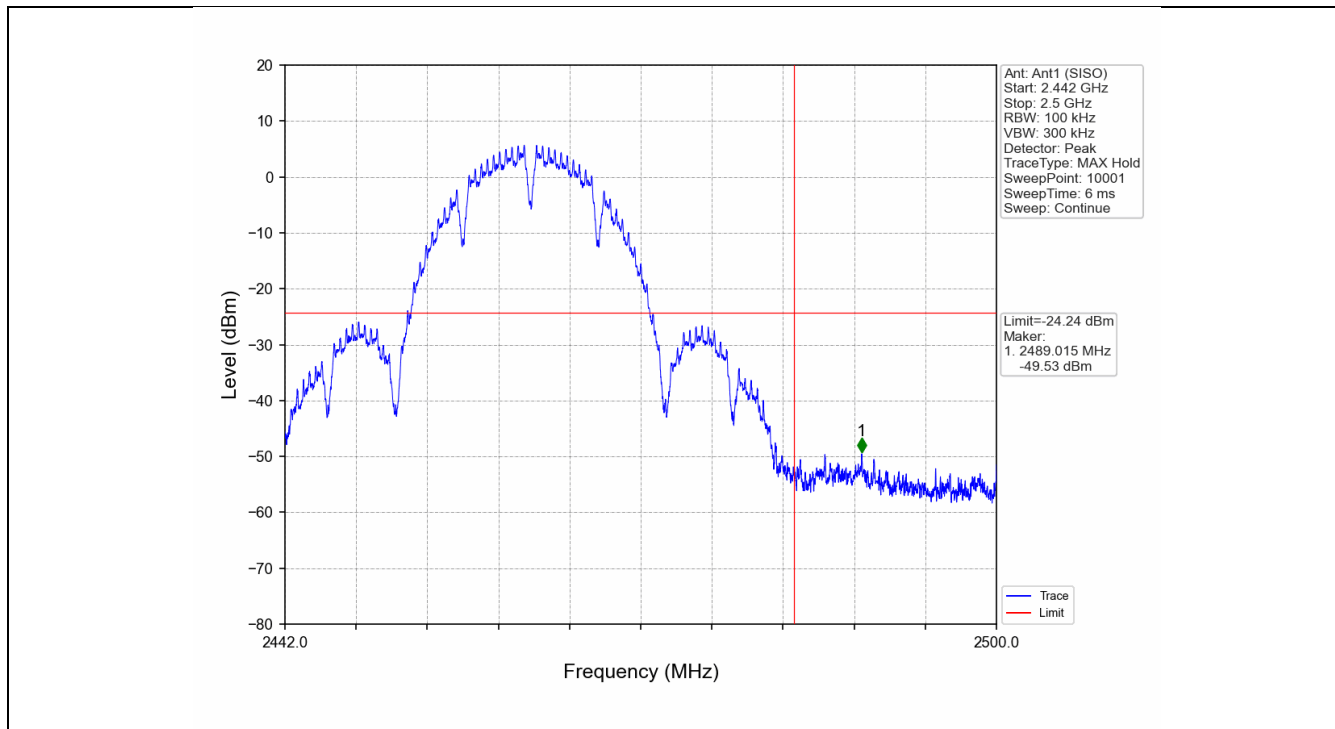
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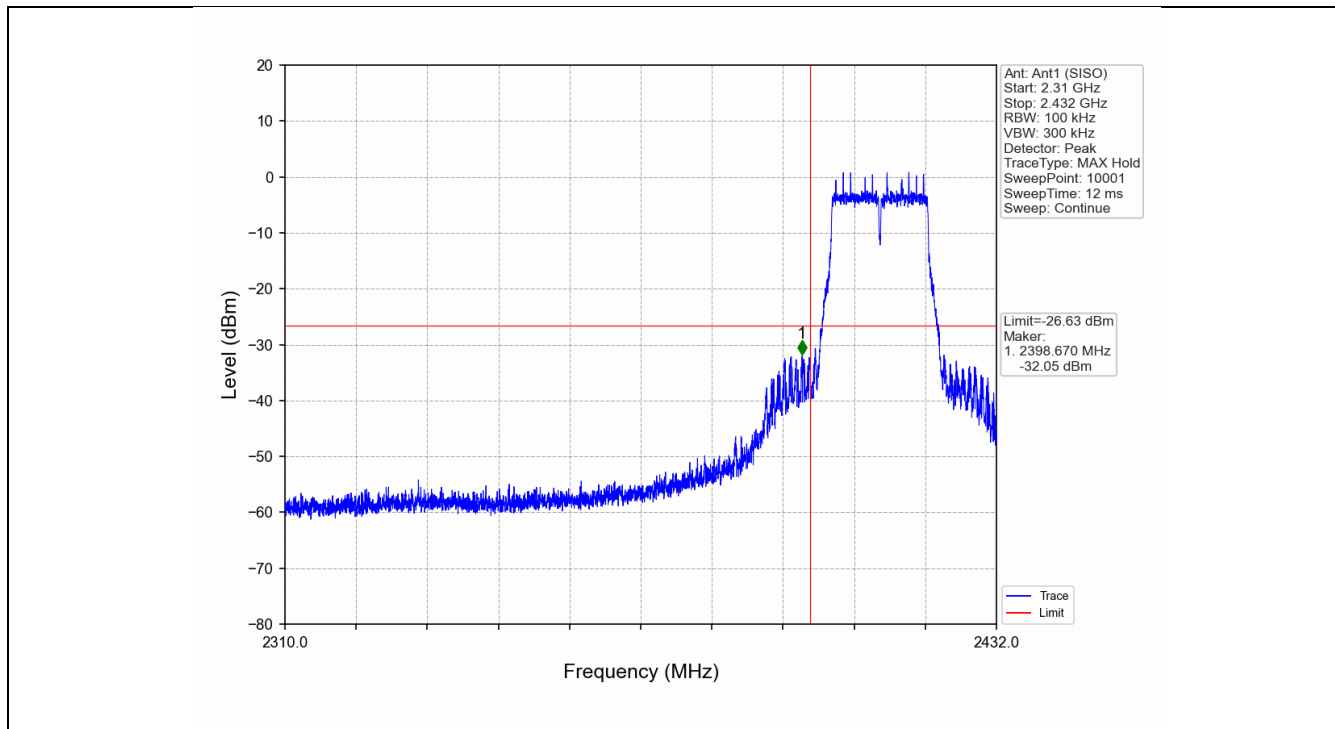


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

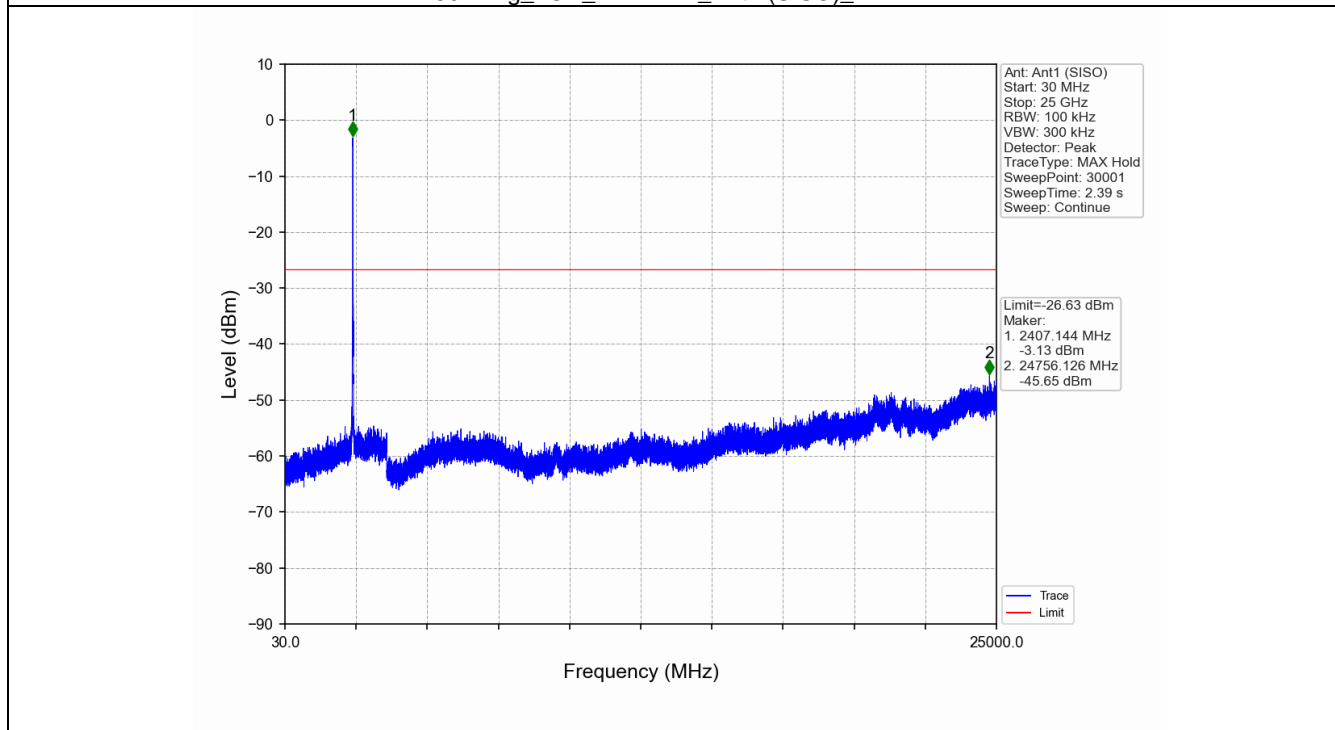


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

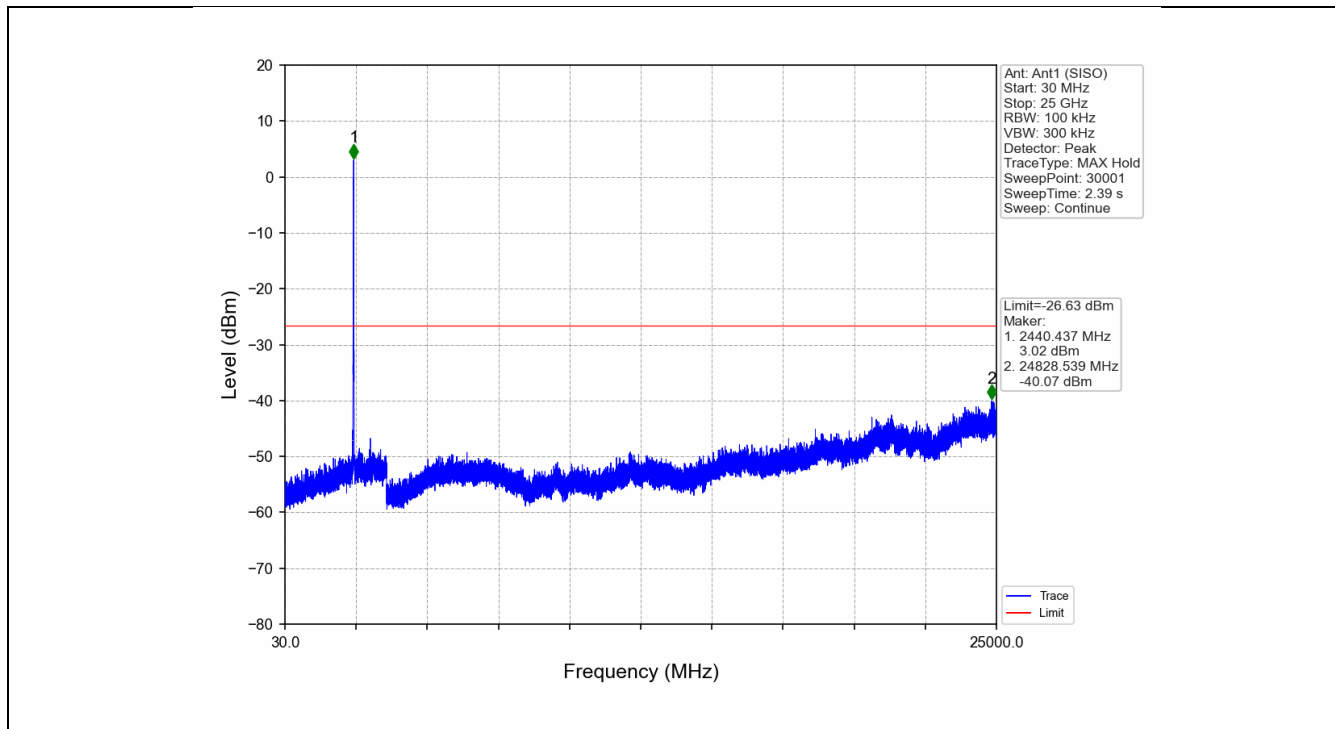




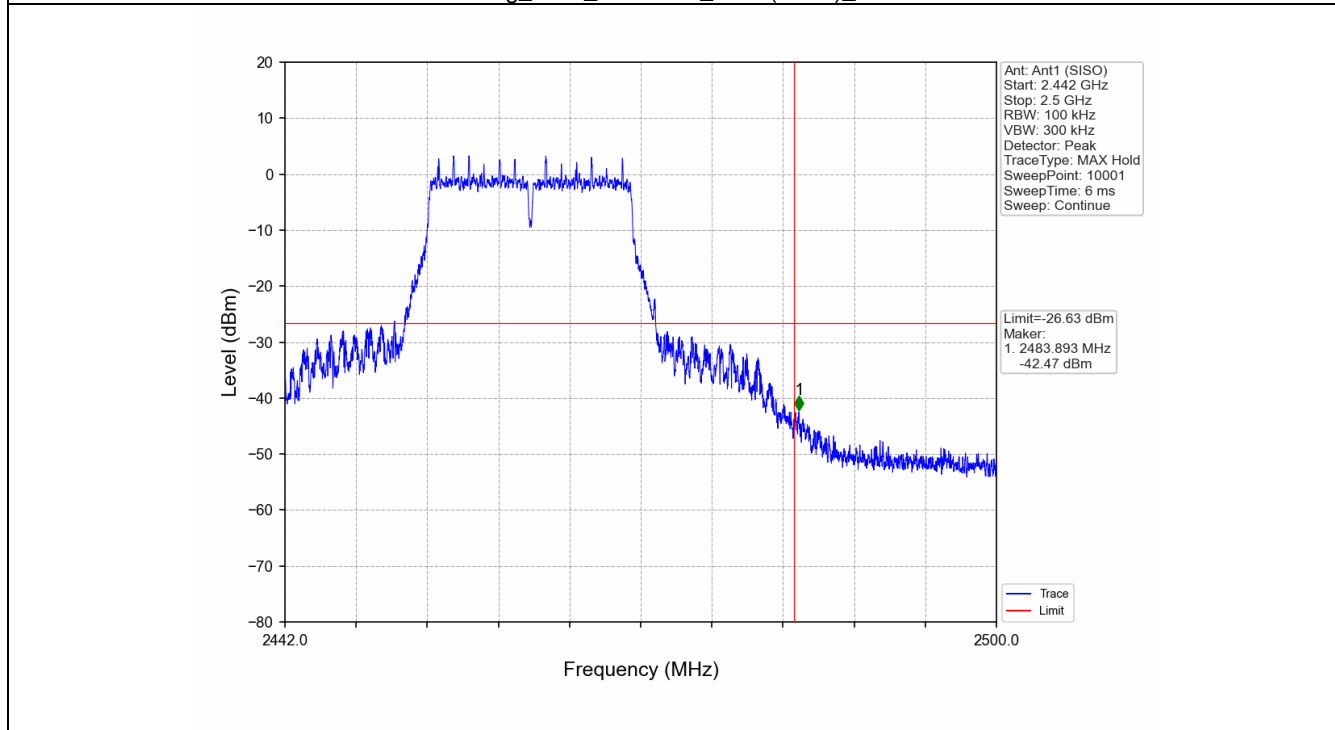
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

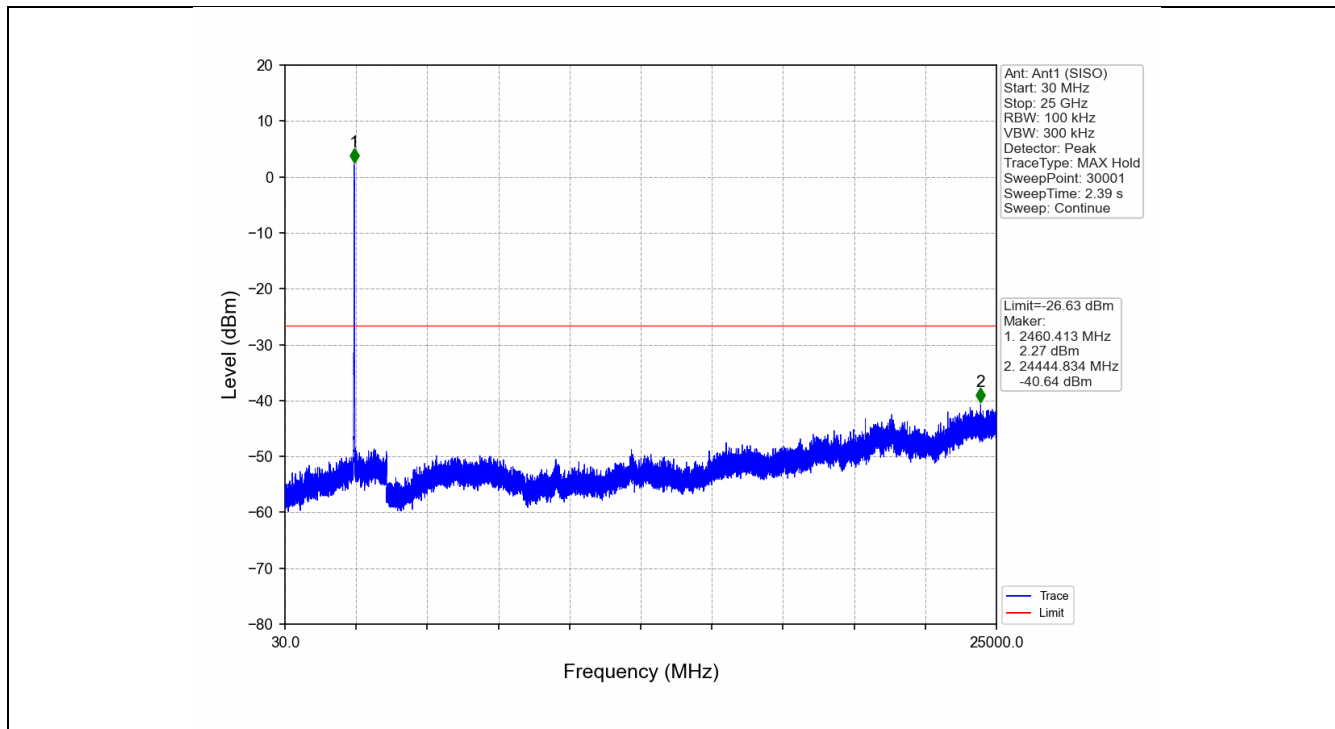


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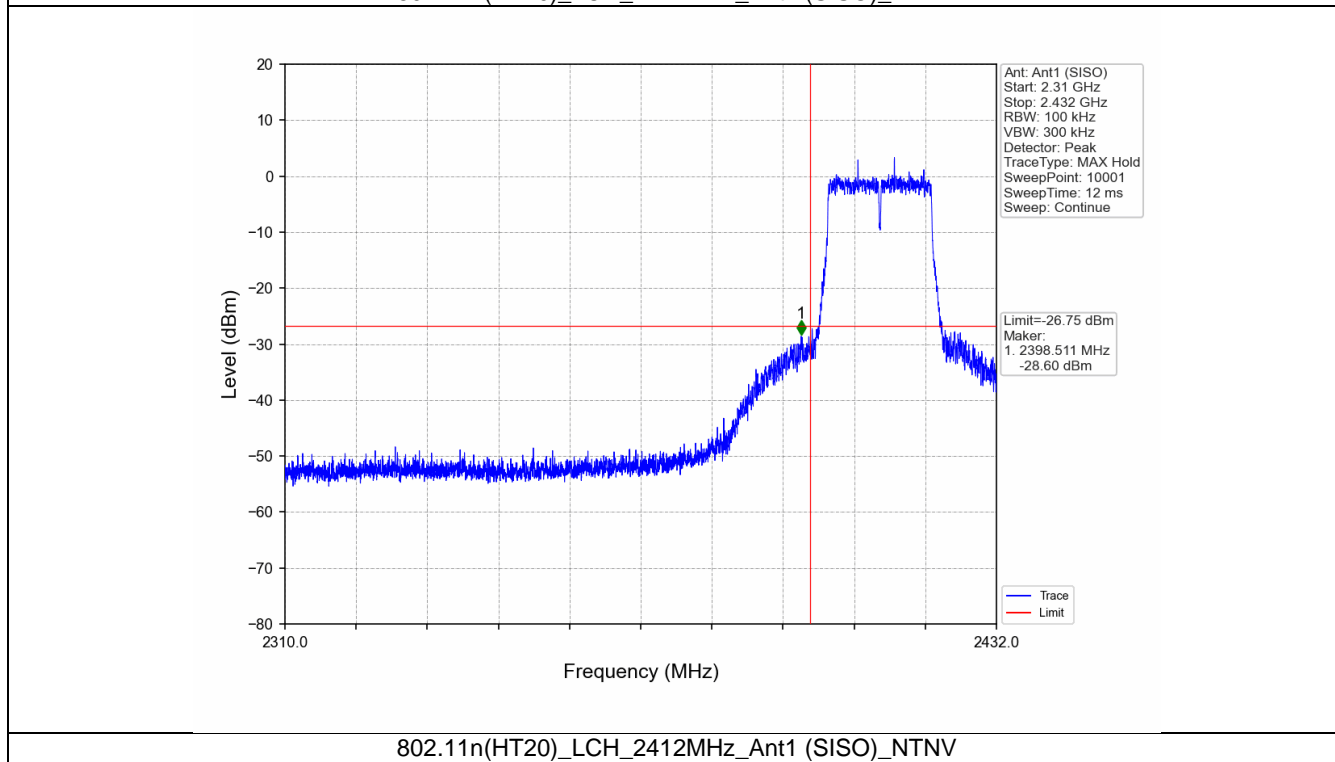
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

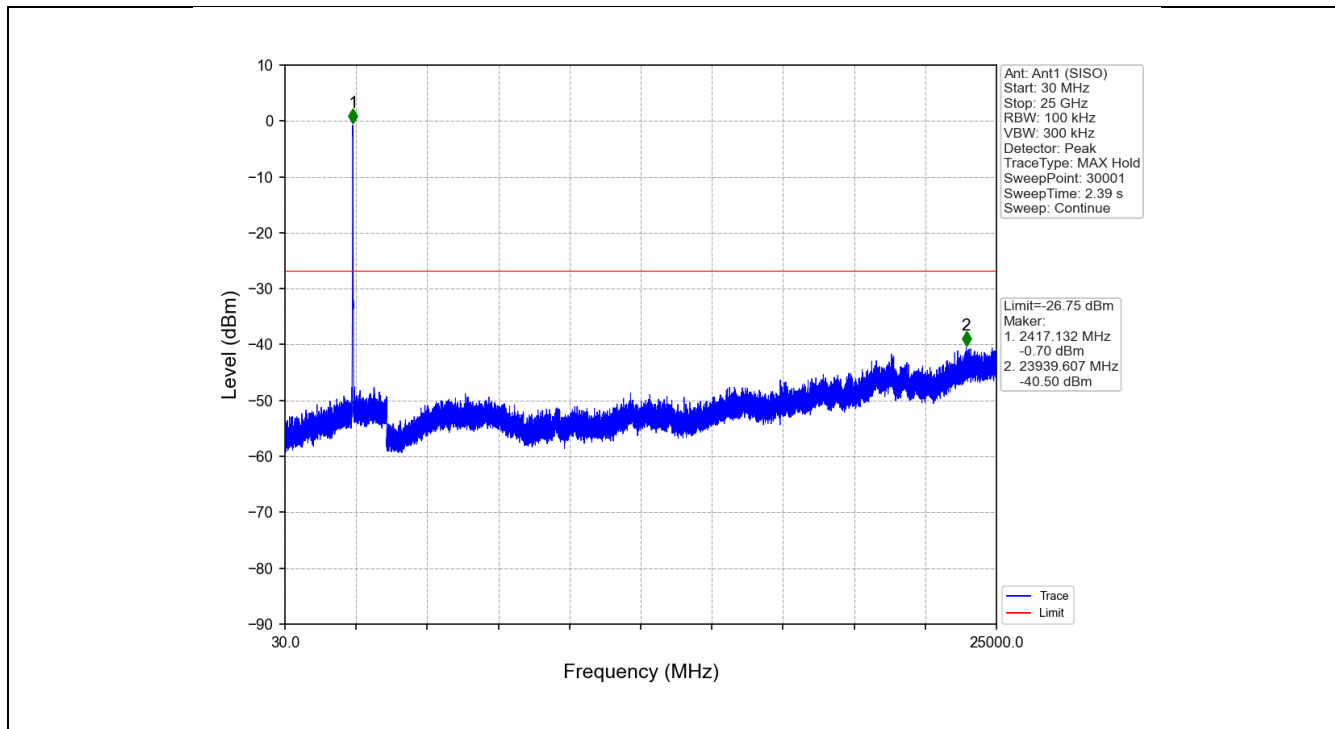


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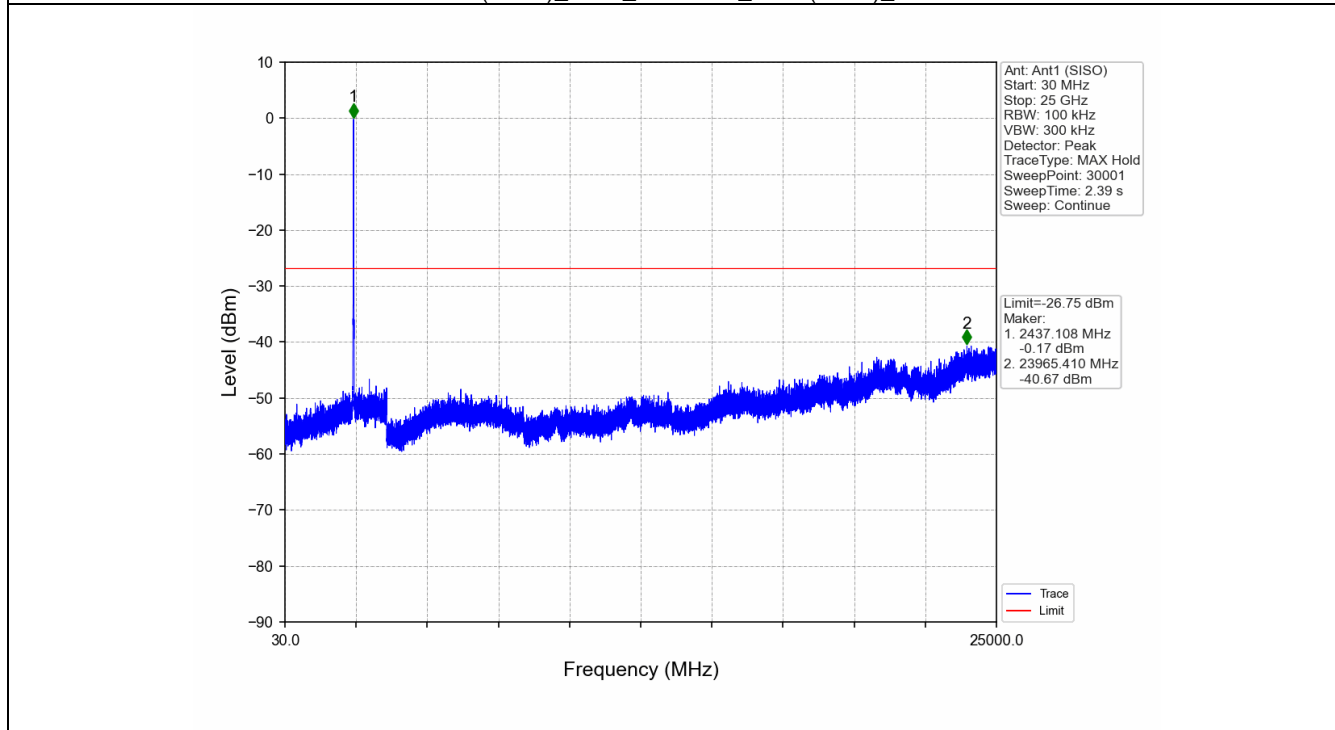
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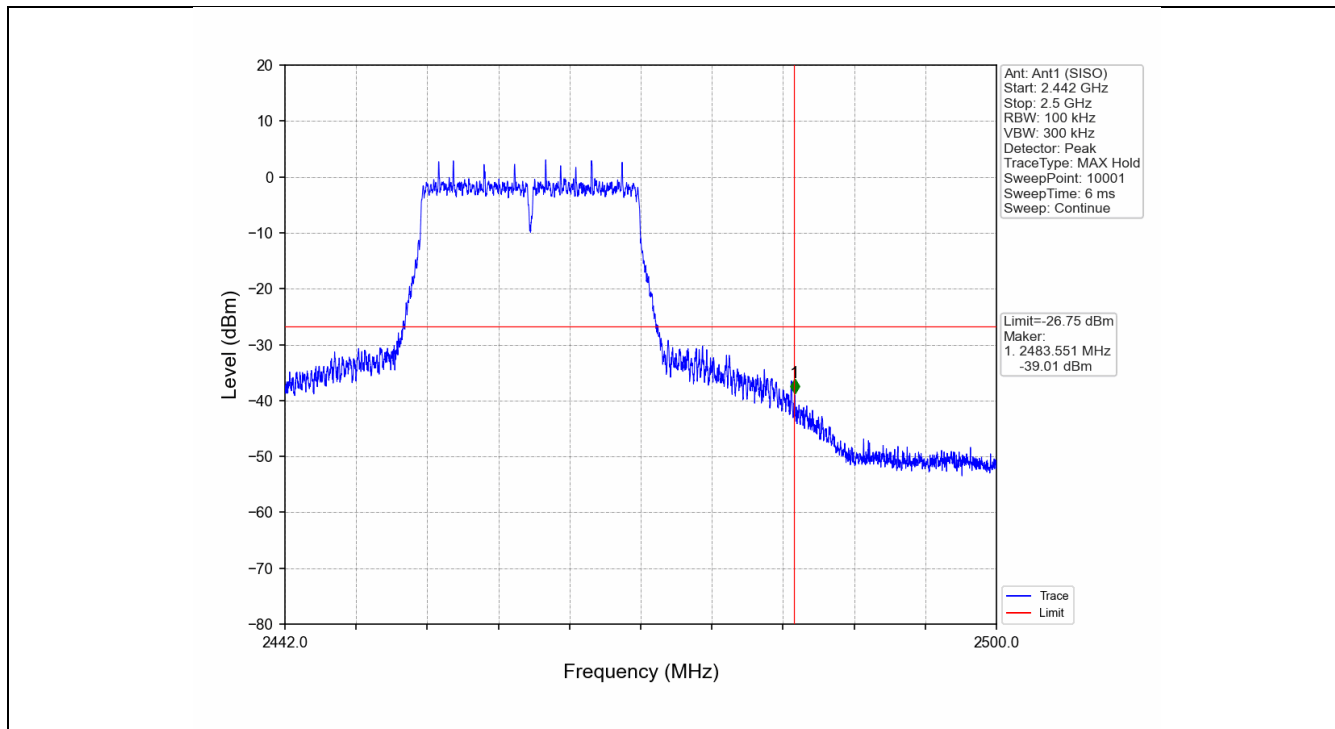
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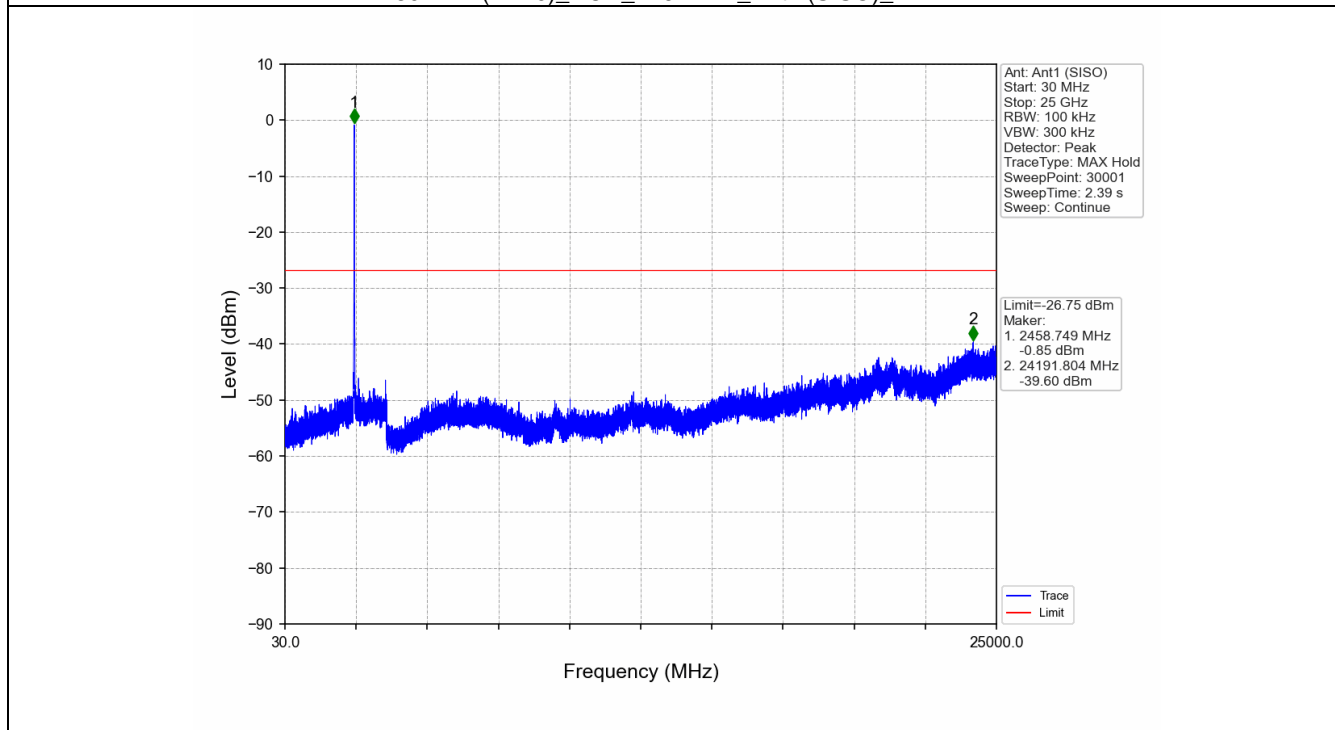
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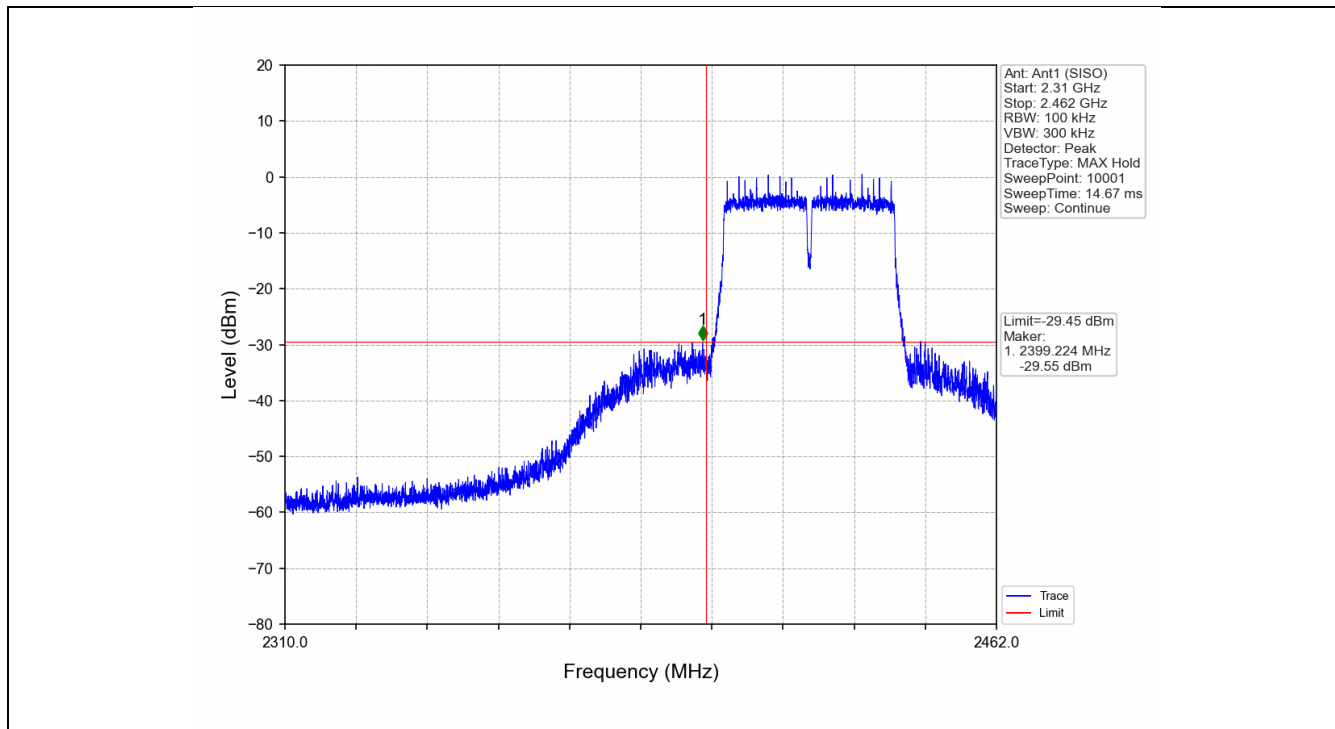
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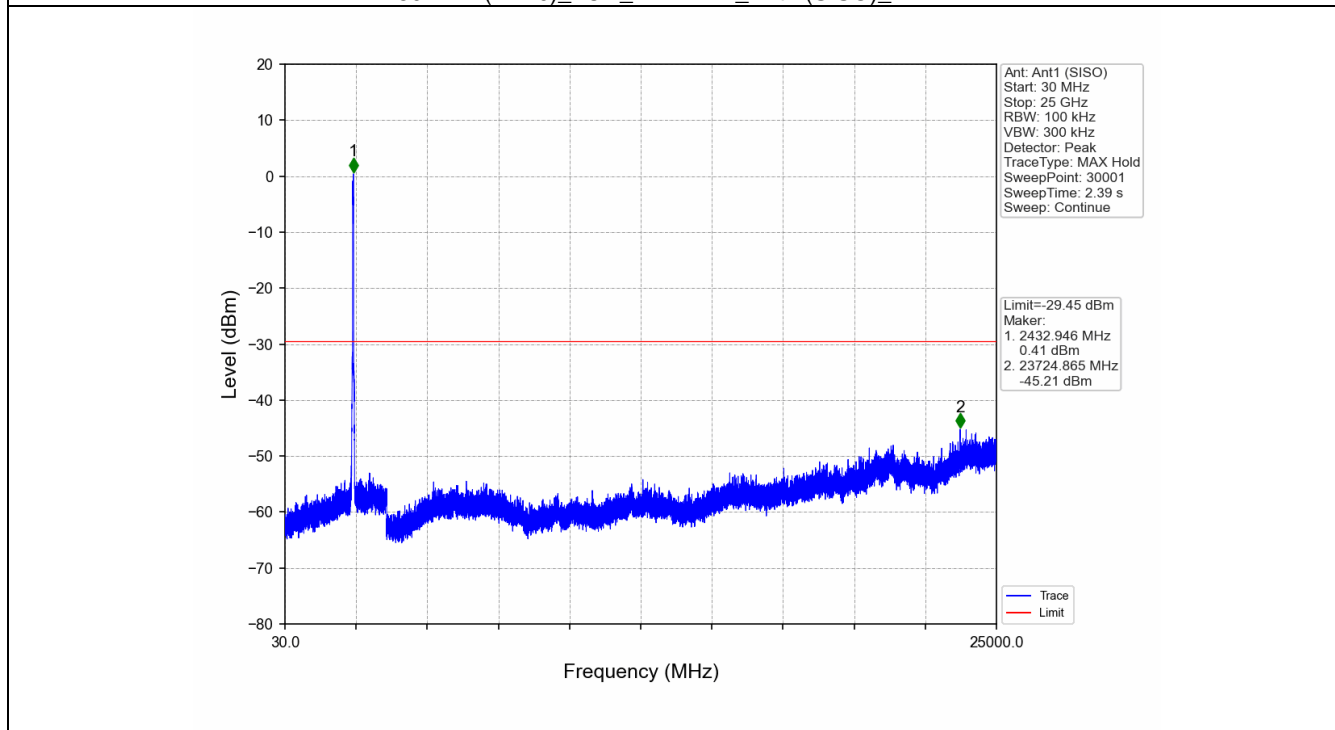
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

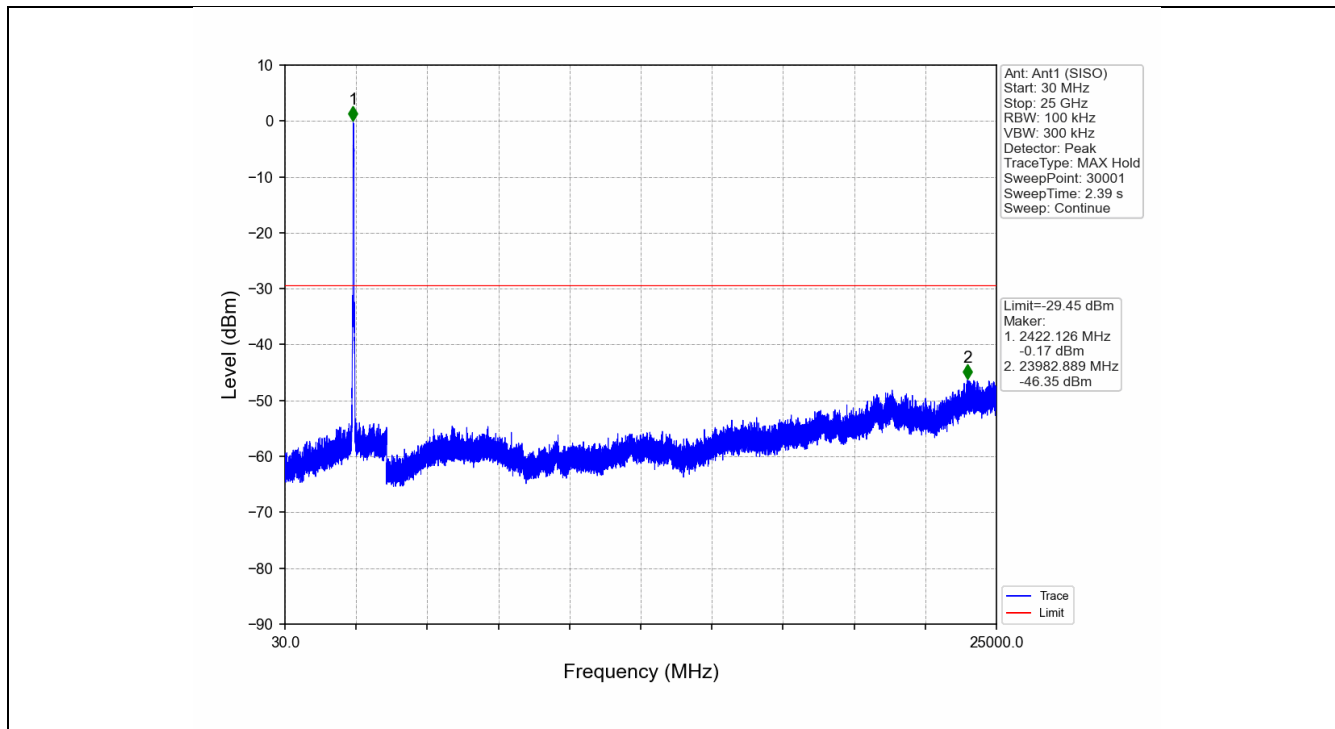


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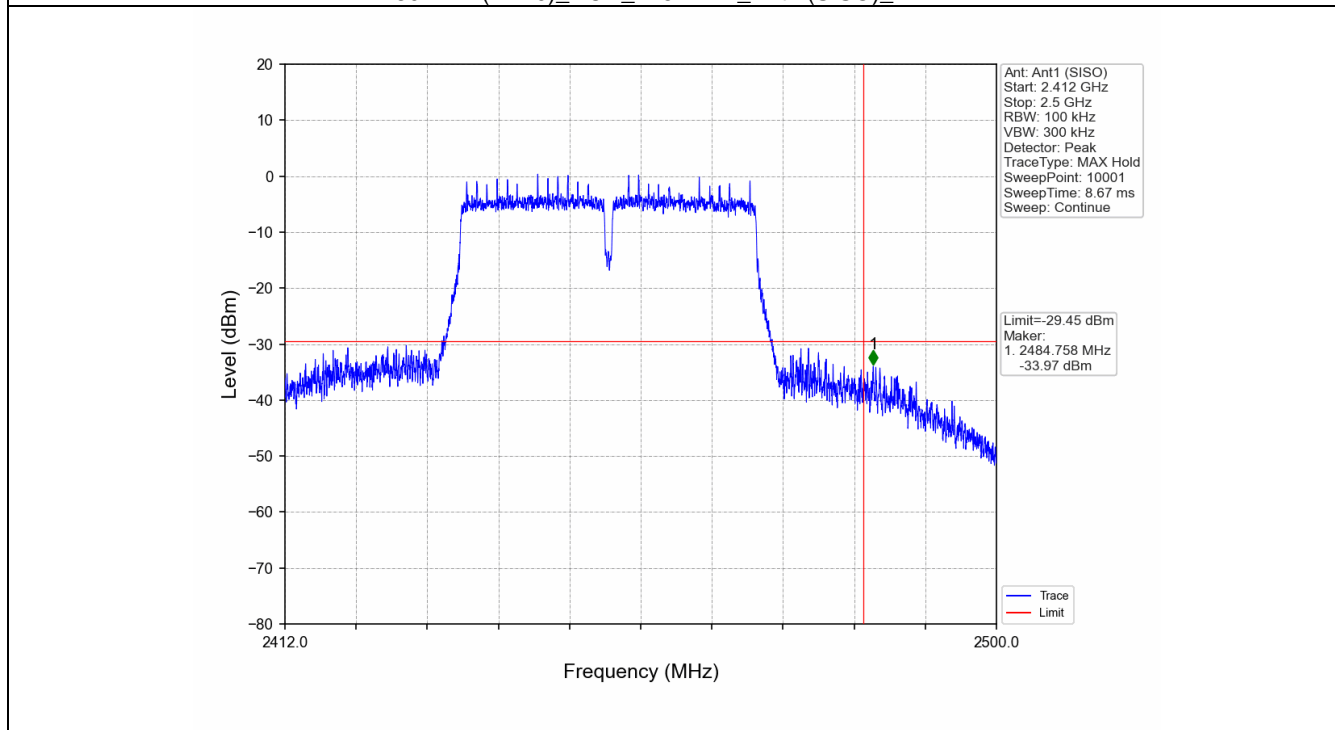
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

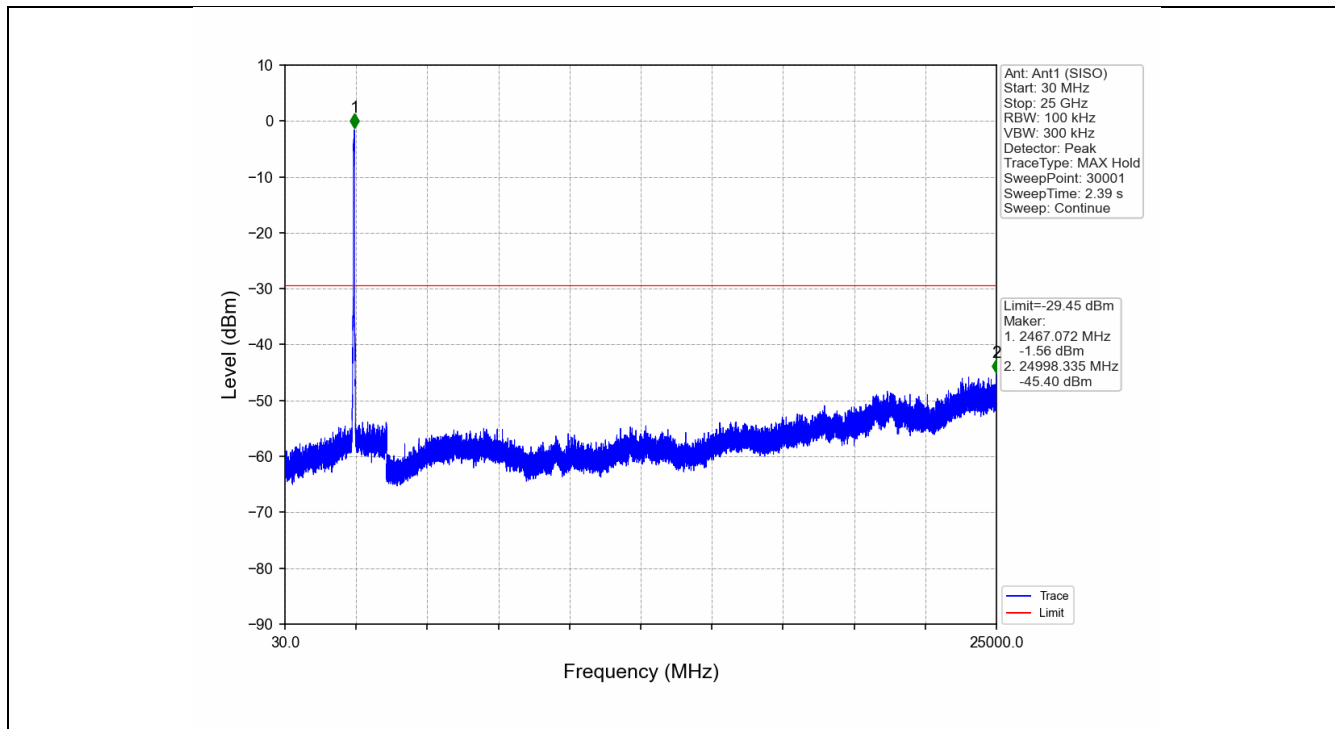


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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