

Appendix A for SHEM210800887601

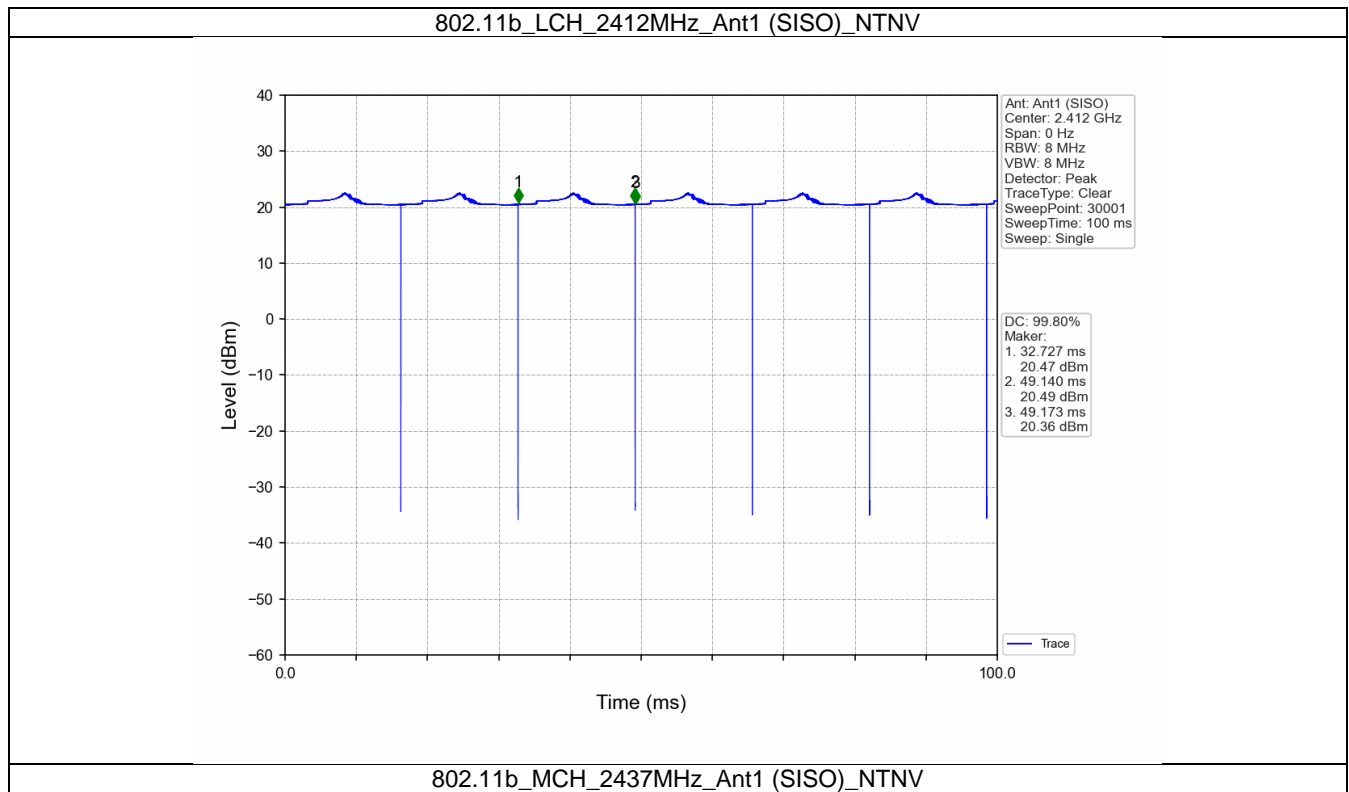
1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

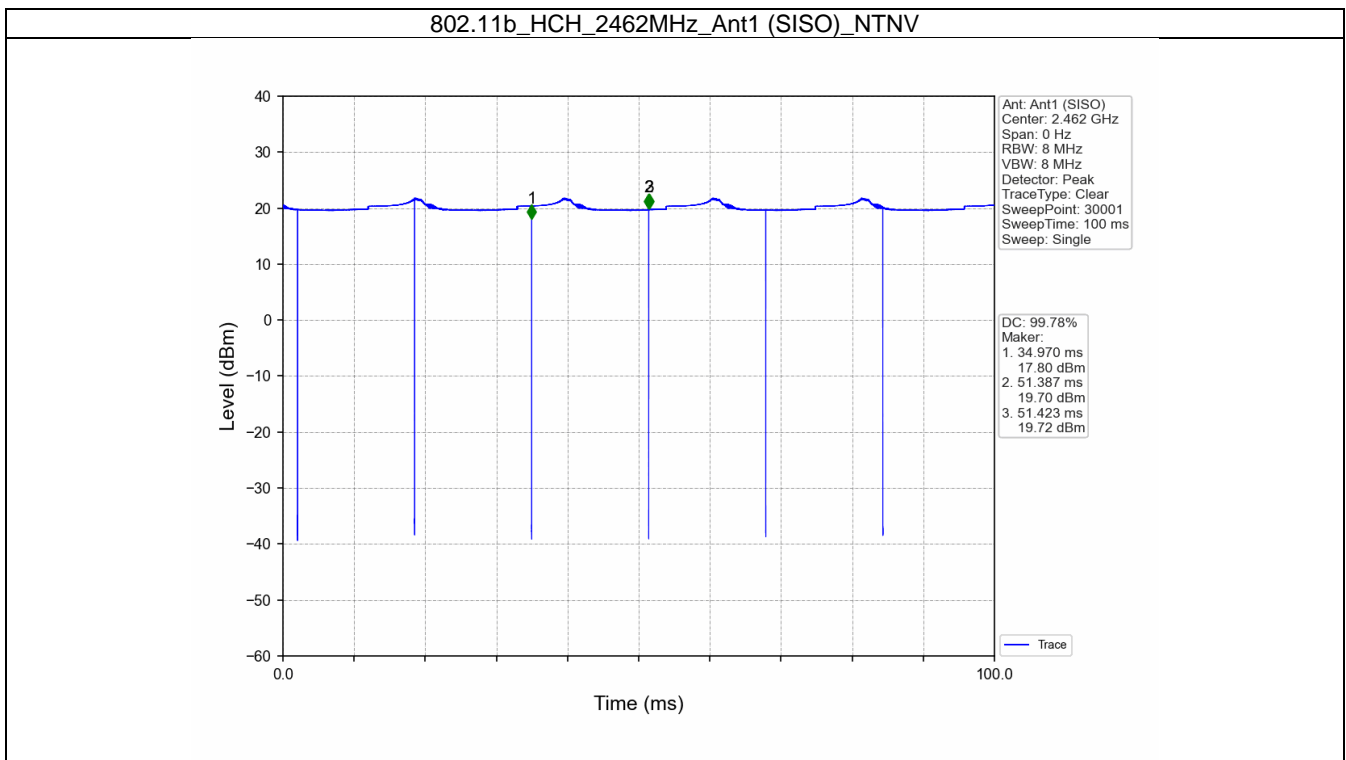
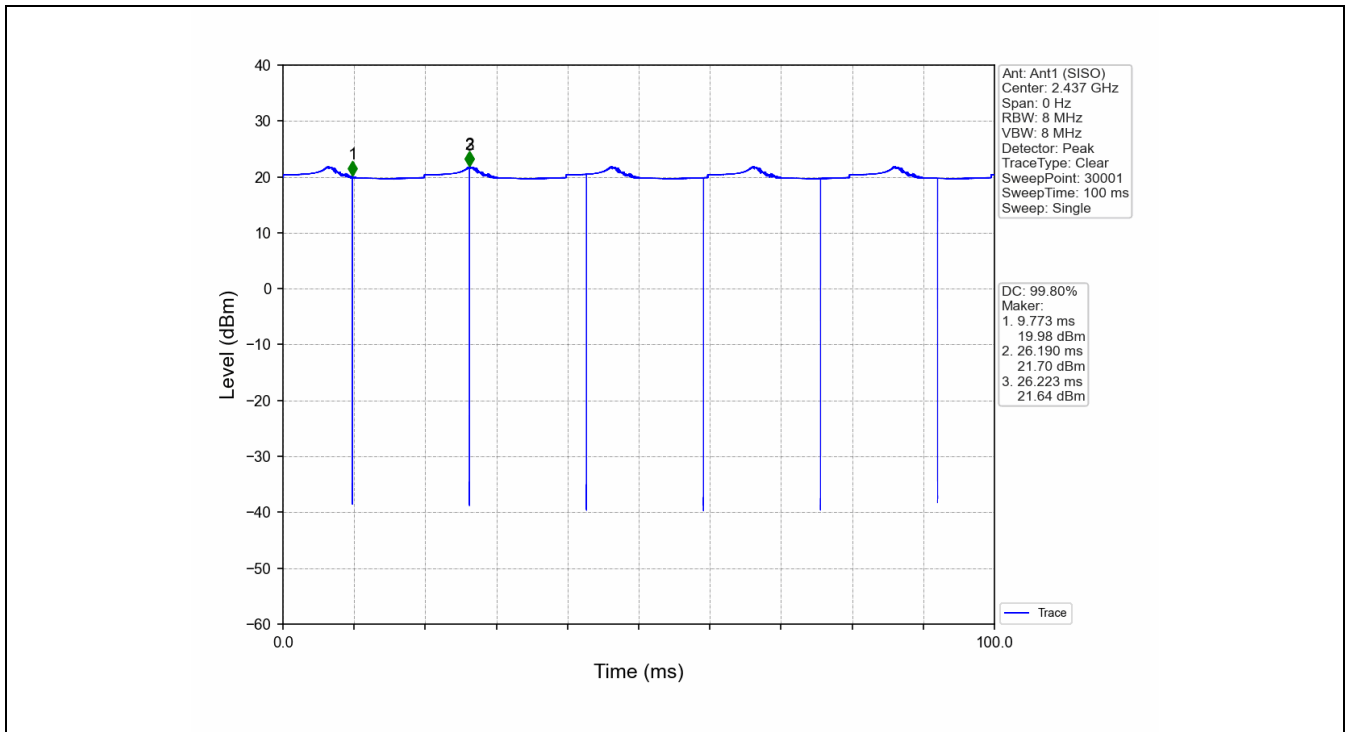
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	16.413	16.446	99.80	0.01	0.00
		2437	16.417	16.450	99.80	0.01	0.00
		2462	16.417	16.453	99.78	0.01	0.02
802.11g	SISO	2412	2.728	2.766	98.63	0.06	0.00
		2437	2.728	2.766	98.63	0.06	0.00
		2462	2.728	2.766	98.63	0.06	0.00
802.11n (HT20)	SISO	2412	2.535	2.574	98.48	0.07	0.00
		2437	2.536	2.574	98.52	0.06	0.00
		2462	2.535	2.574	98.48	0.07	0.00

1.1.2 Test Graph



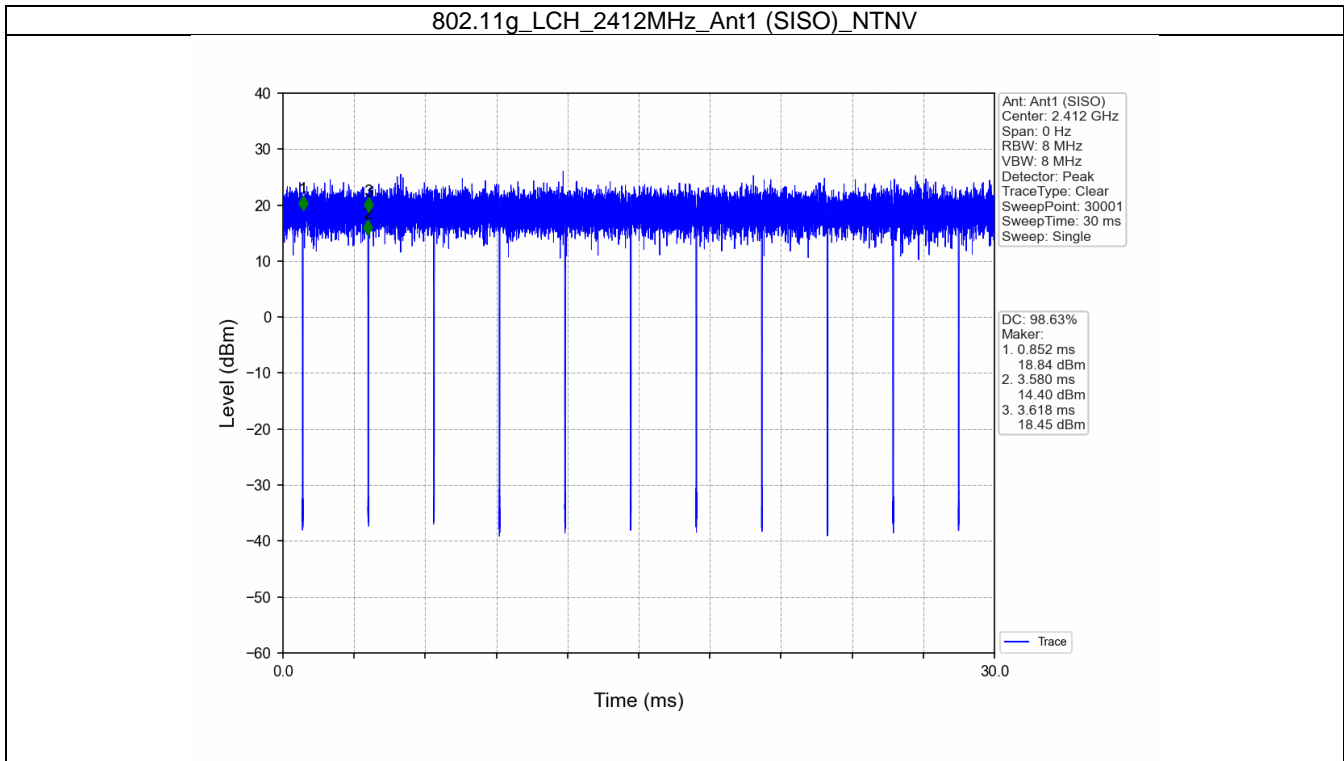
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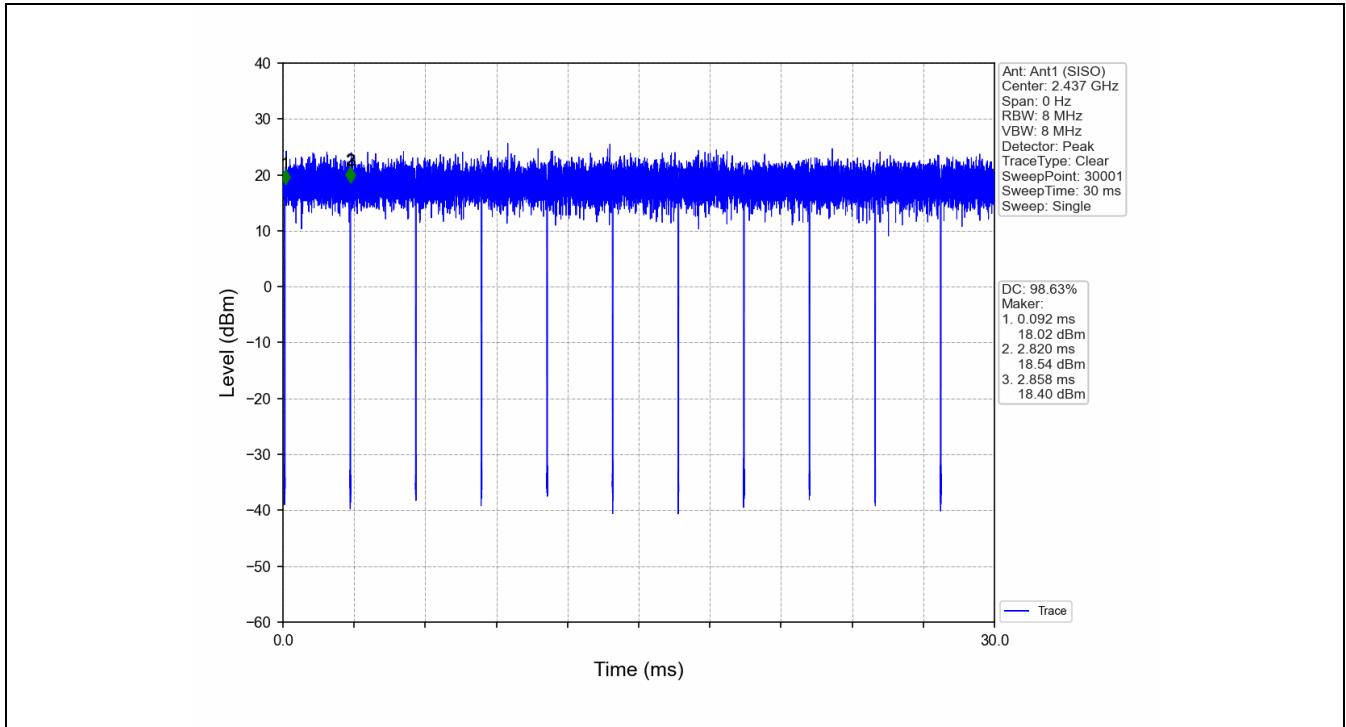


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

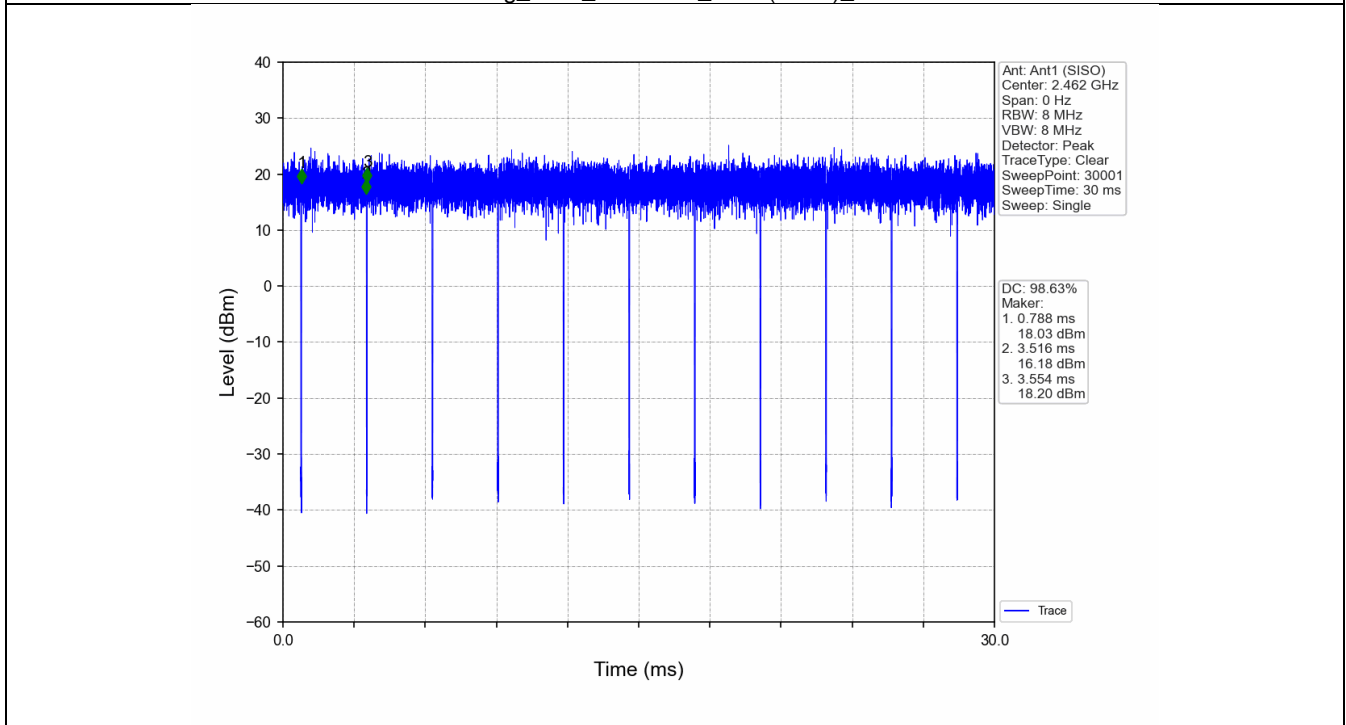


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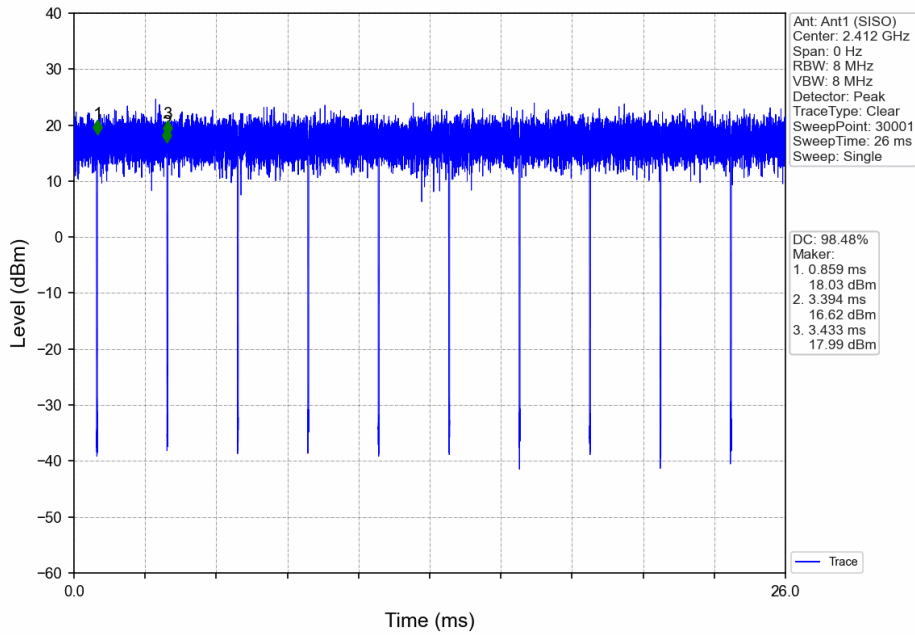
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



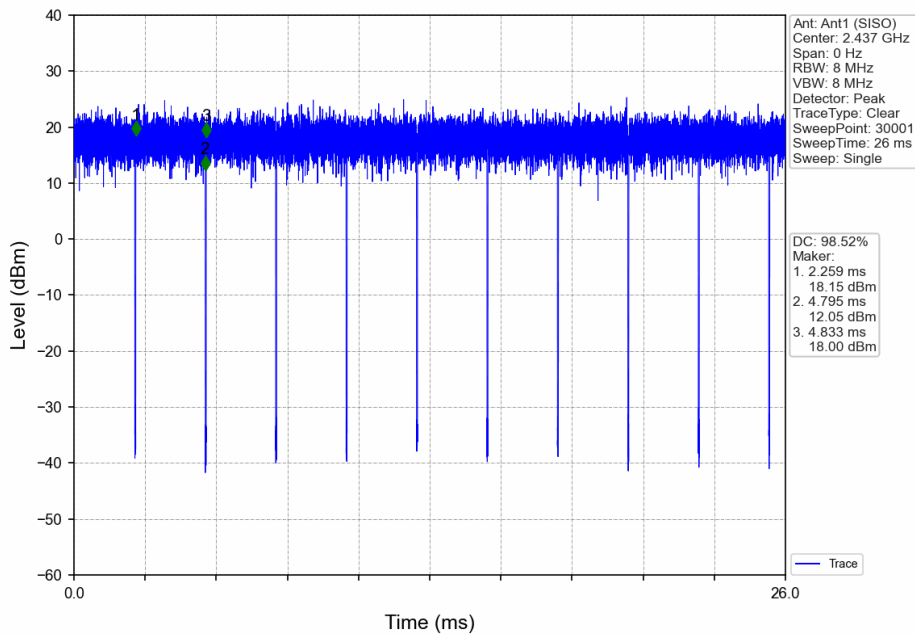
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

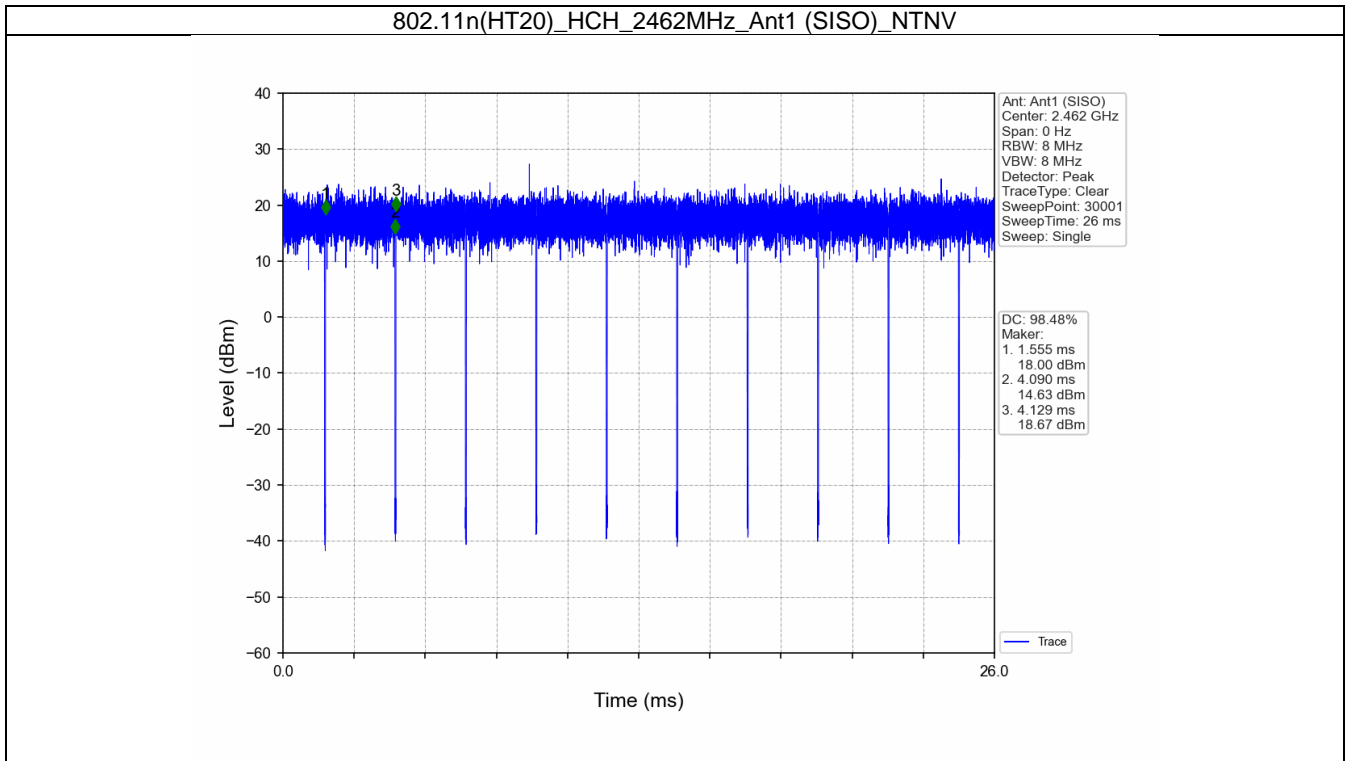


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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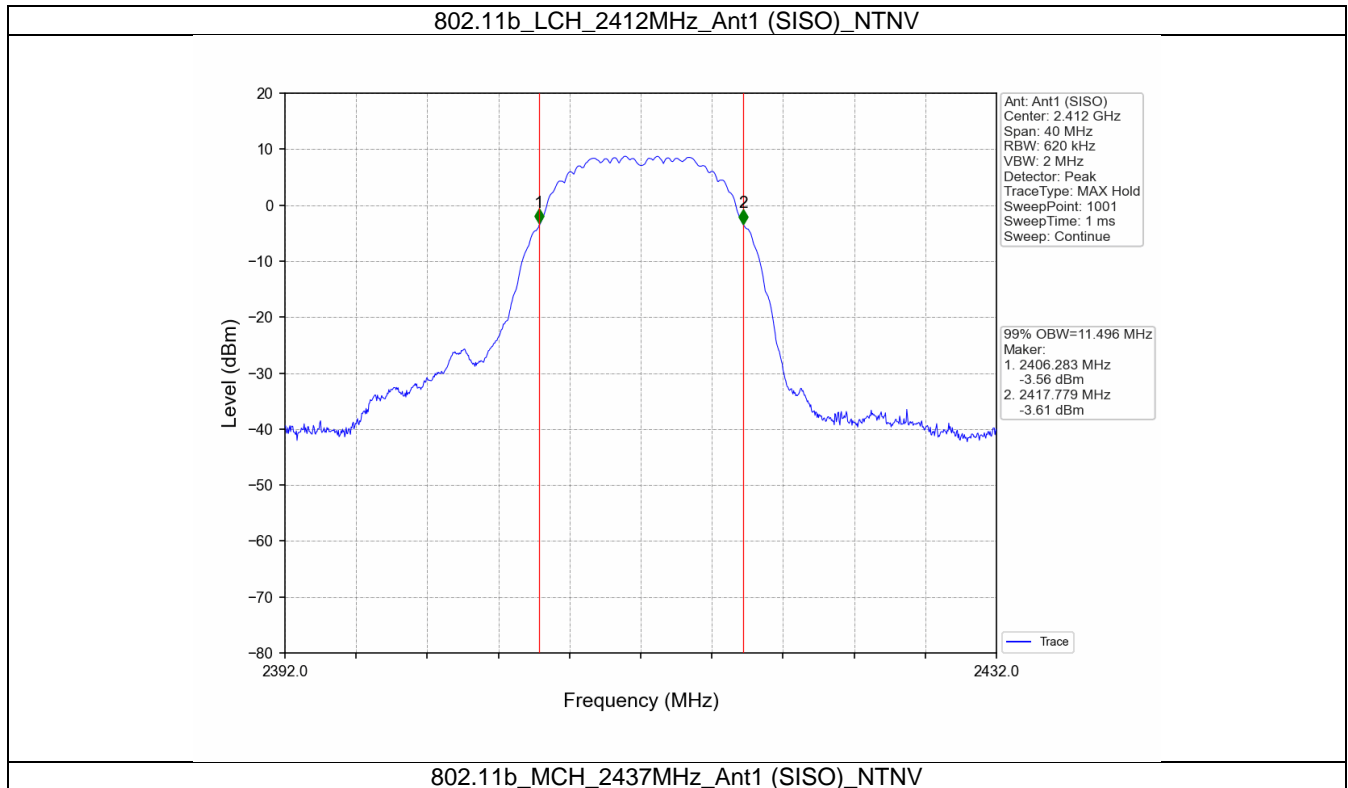
2. Bandwidth

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	11.496	Pass
		2437	1	11.510	Pass
		2462	1	11.506	Pass
802.11g	SISO	2412	1	17.311	Pass
		2437	1	17.302	Pass
		2462	1	17.312	Pass
802.11n (HT20)	SISO	2412	1	18.124	Pass
		2437	1	18.135	Pass
		2462	1	18.146	Pass

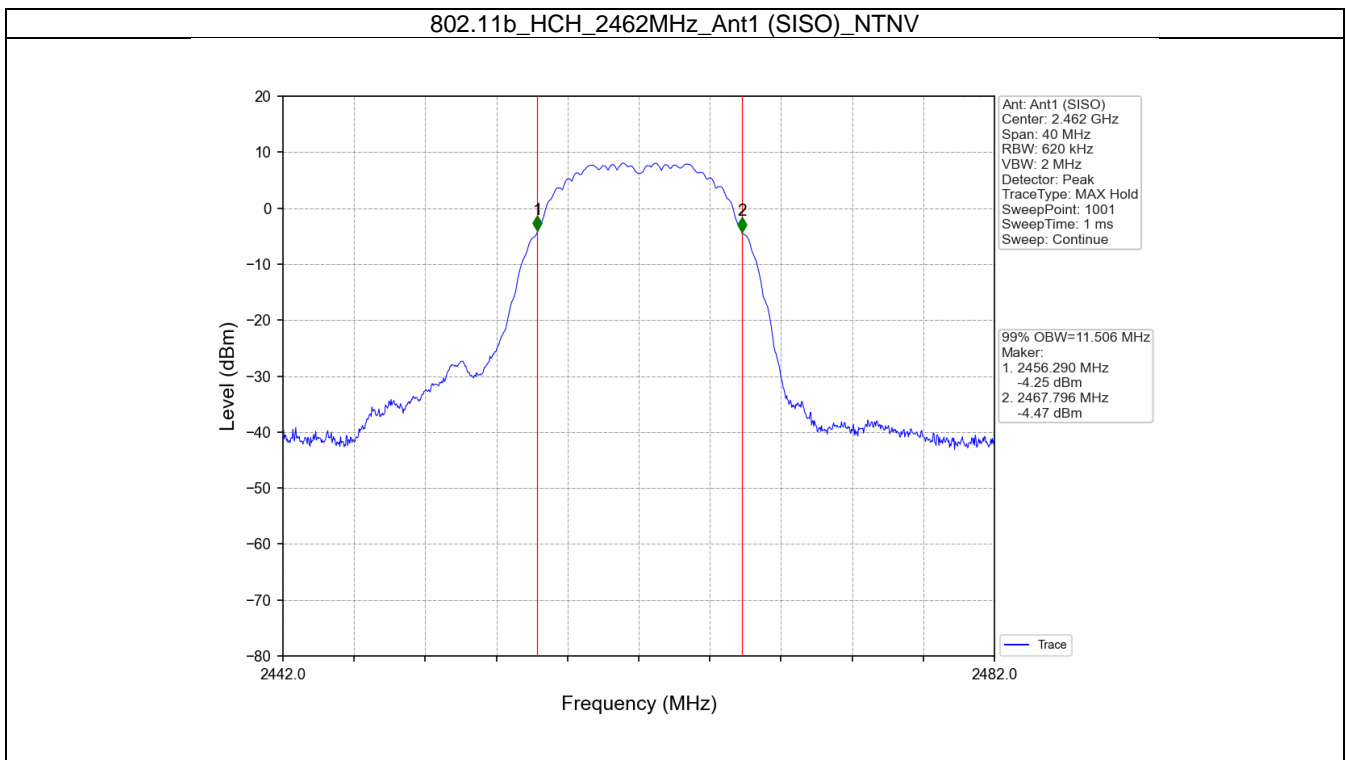
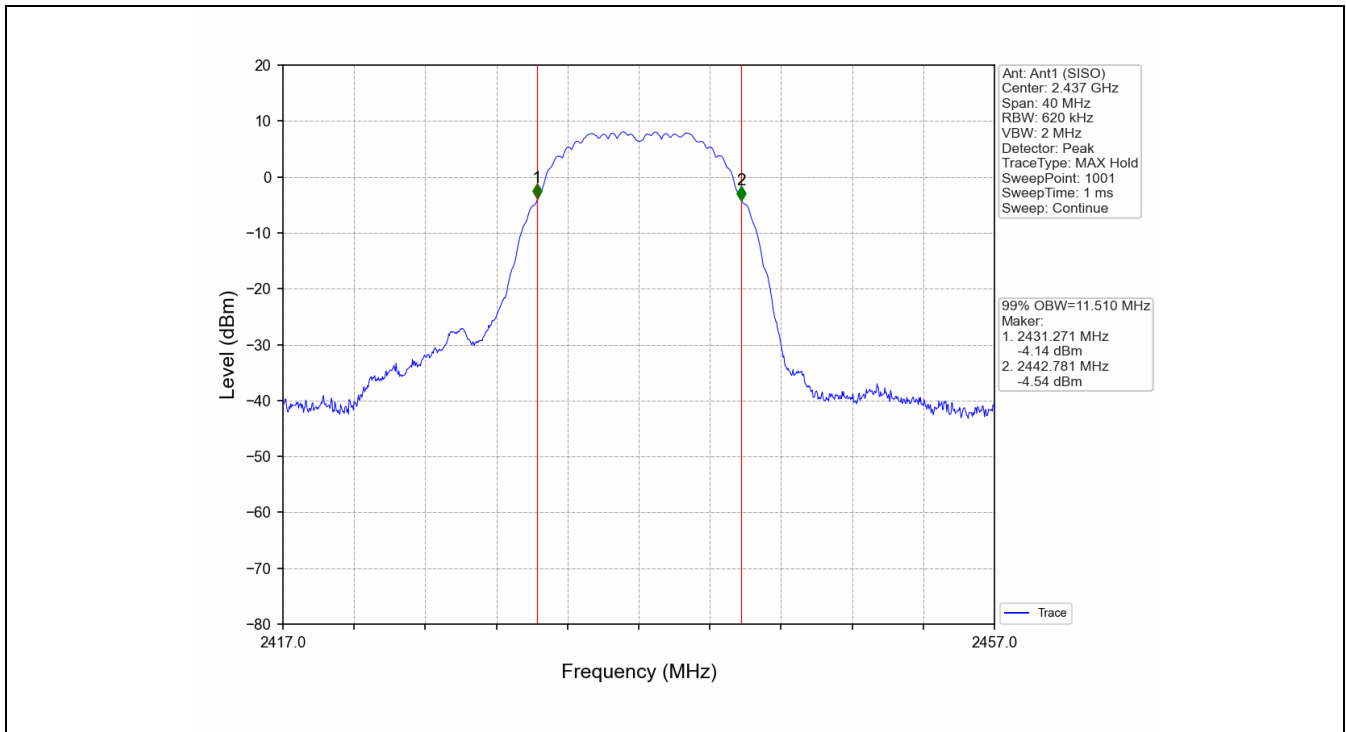
2.1.2 Test Graph



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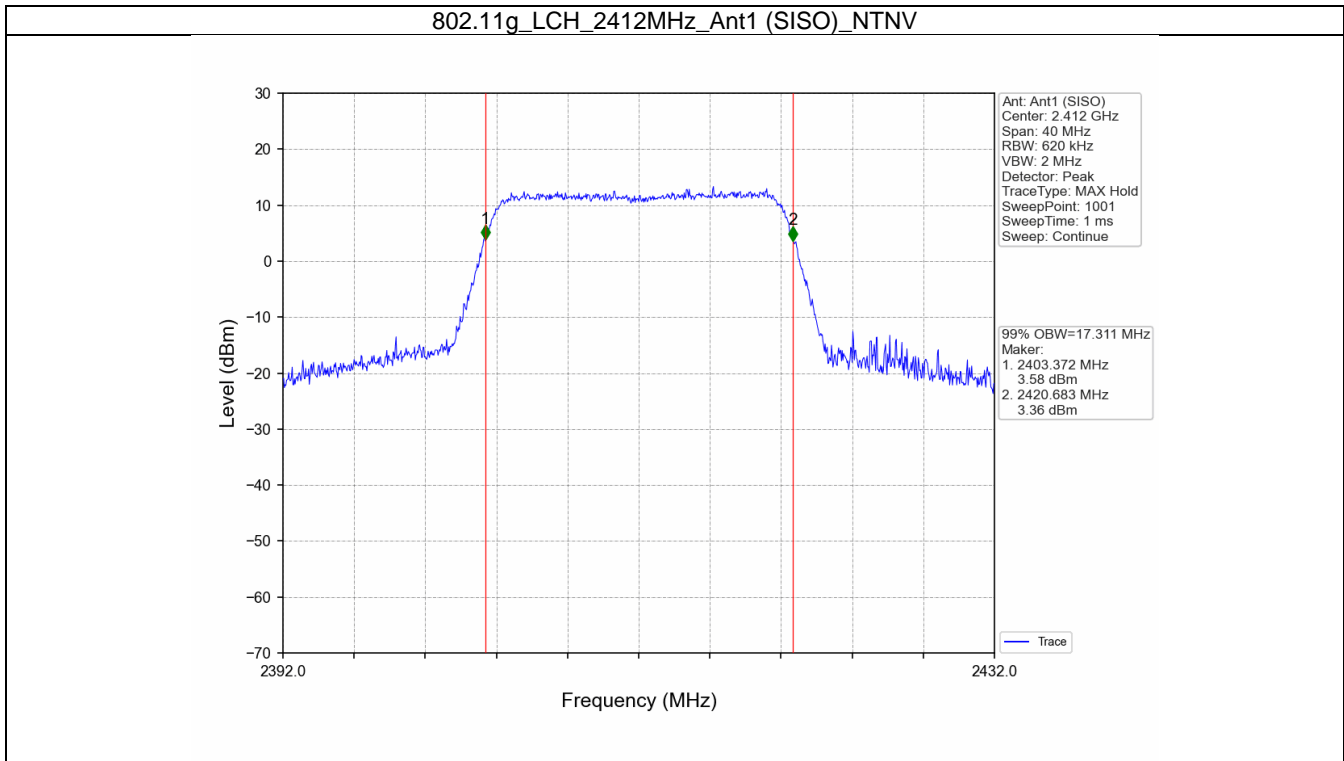
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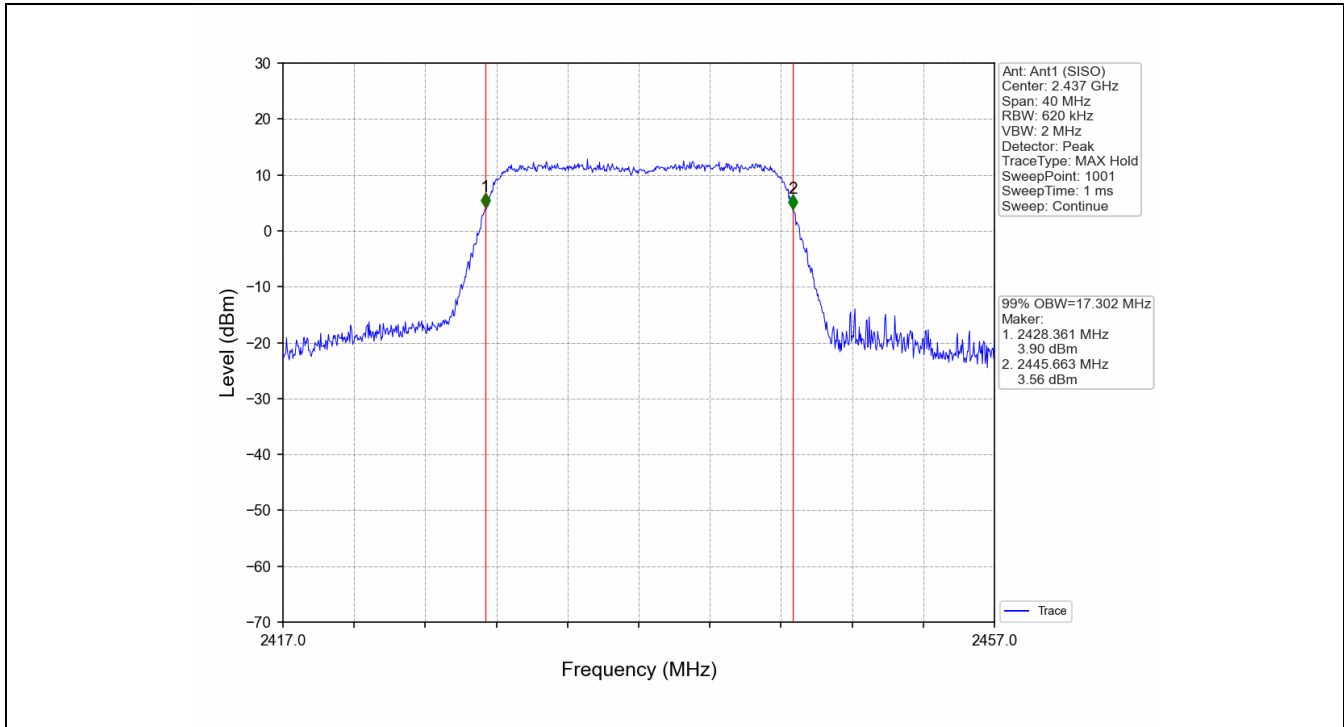


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

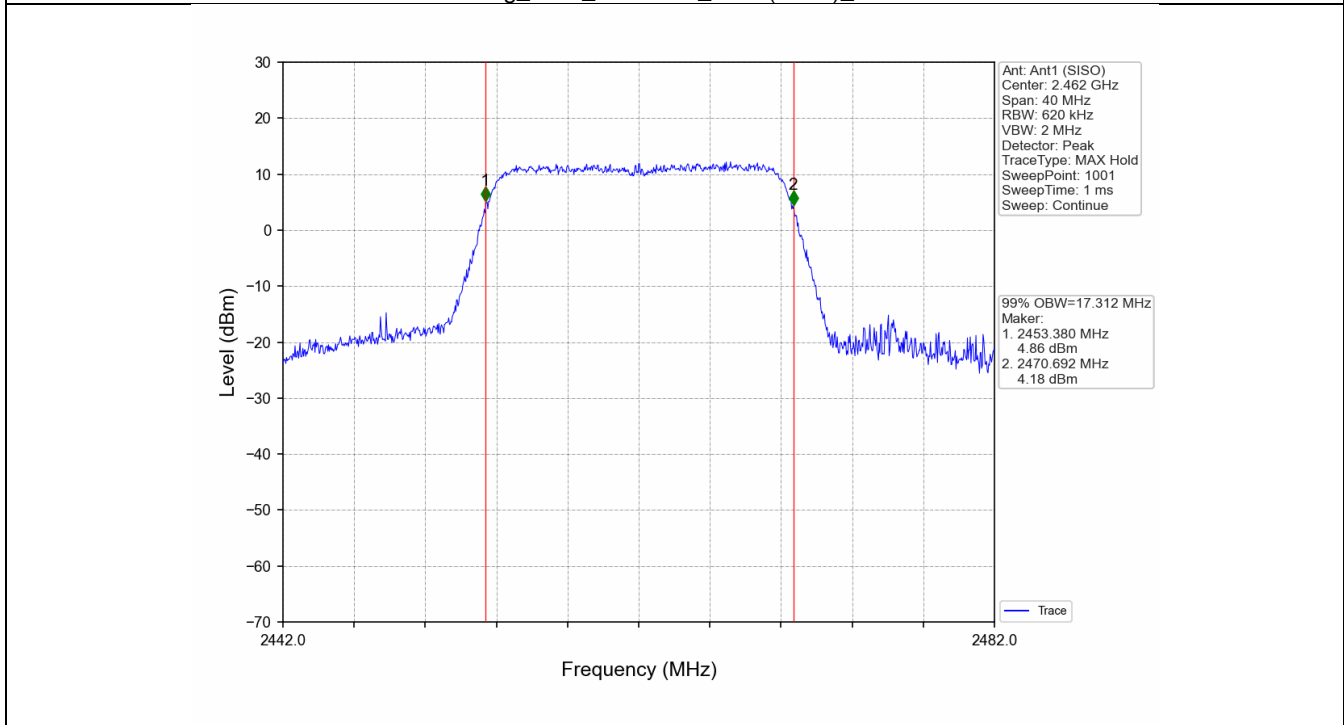


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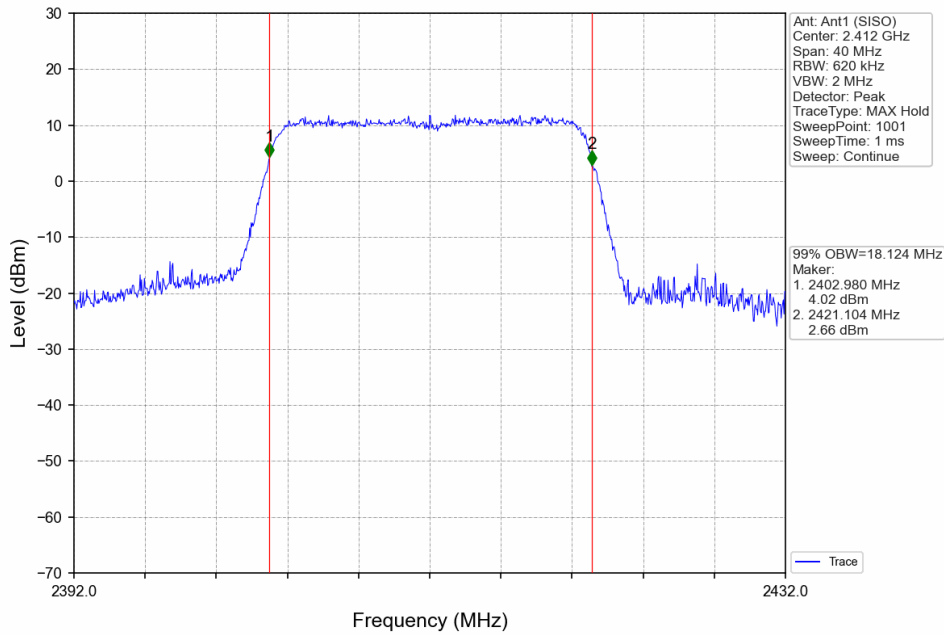
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



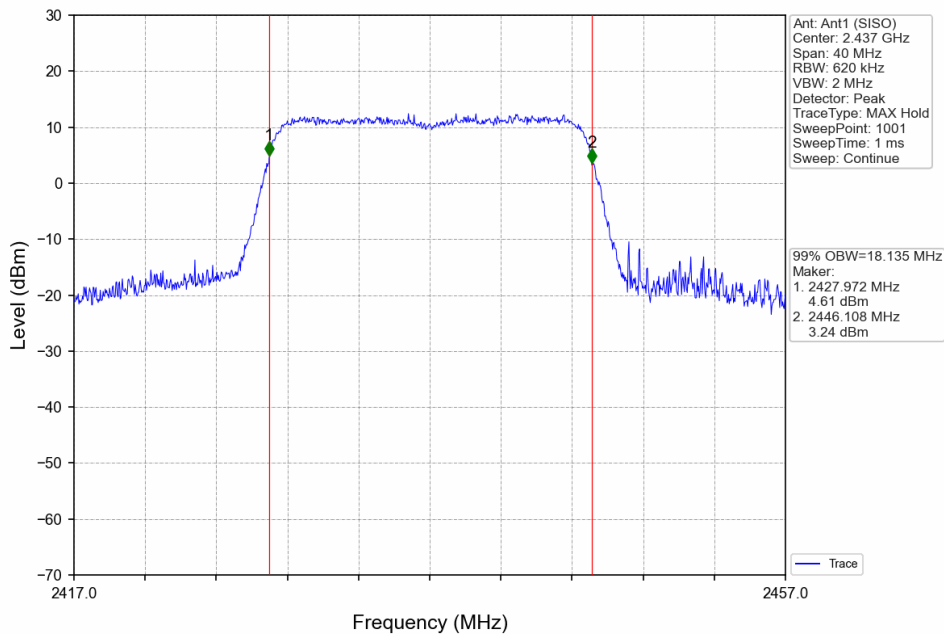
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

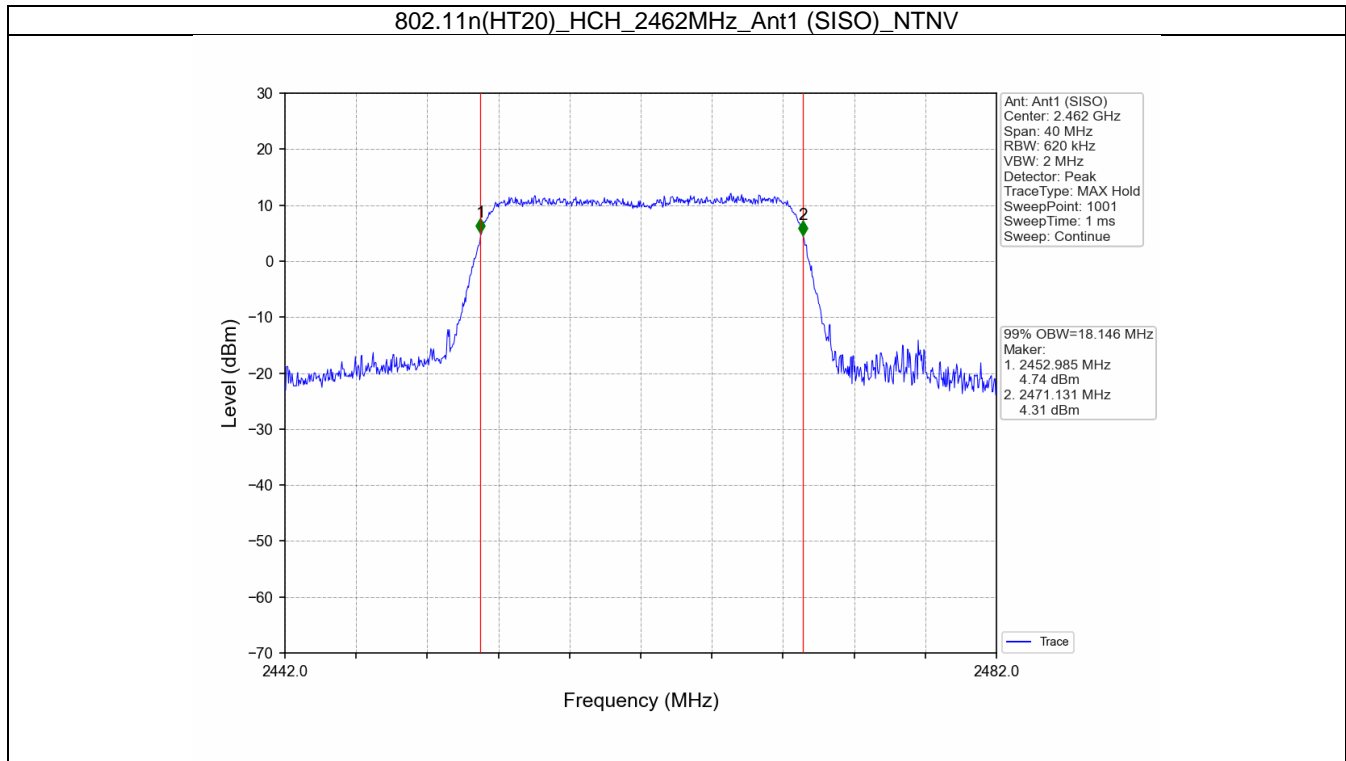


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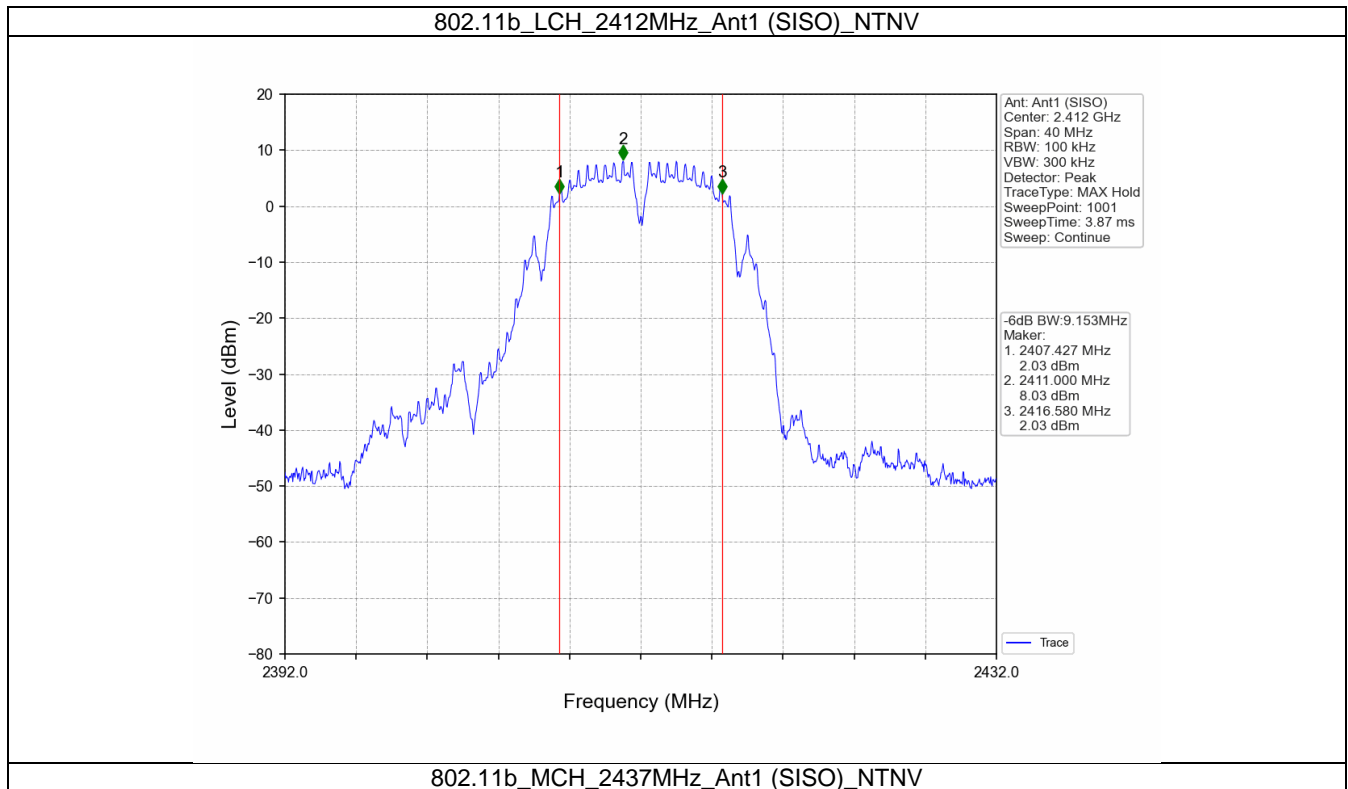
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2.2 6dB BW

2.2.1 Test Result

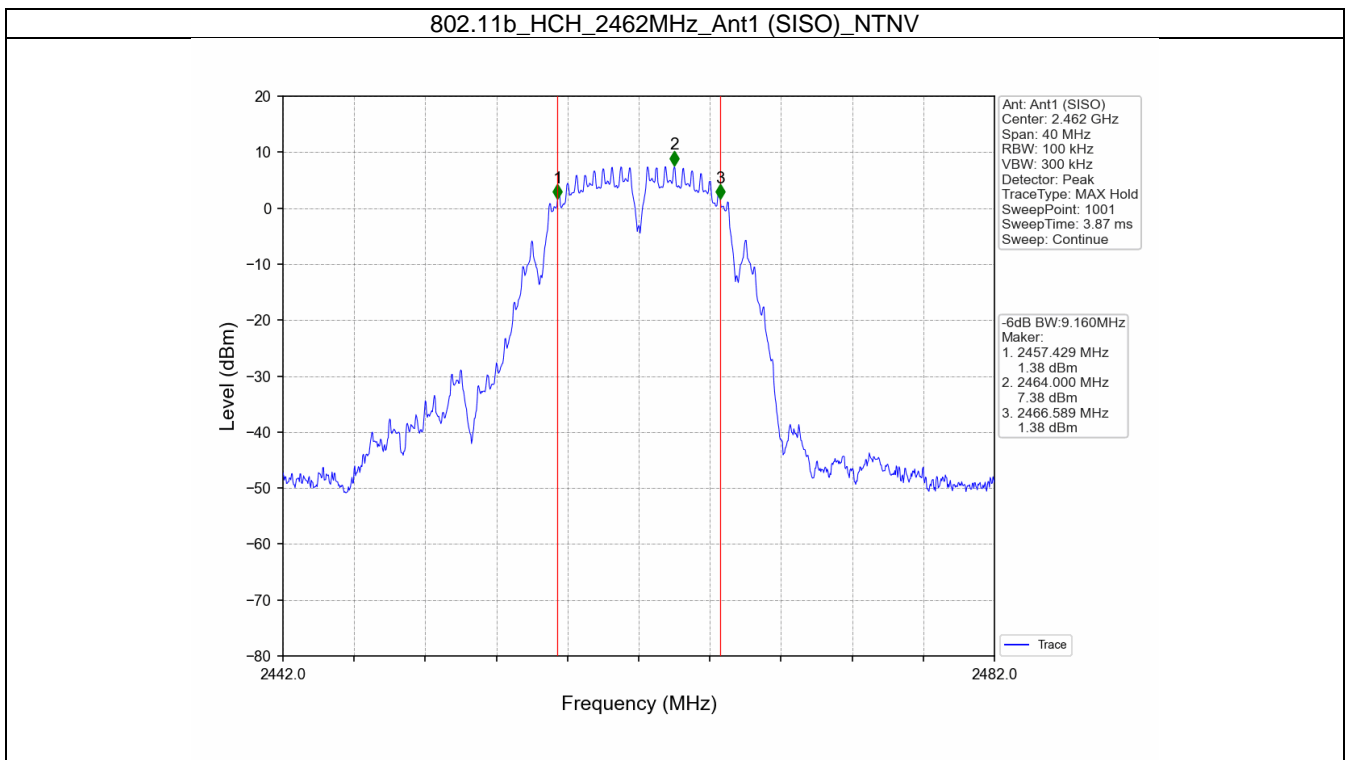
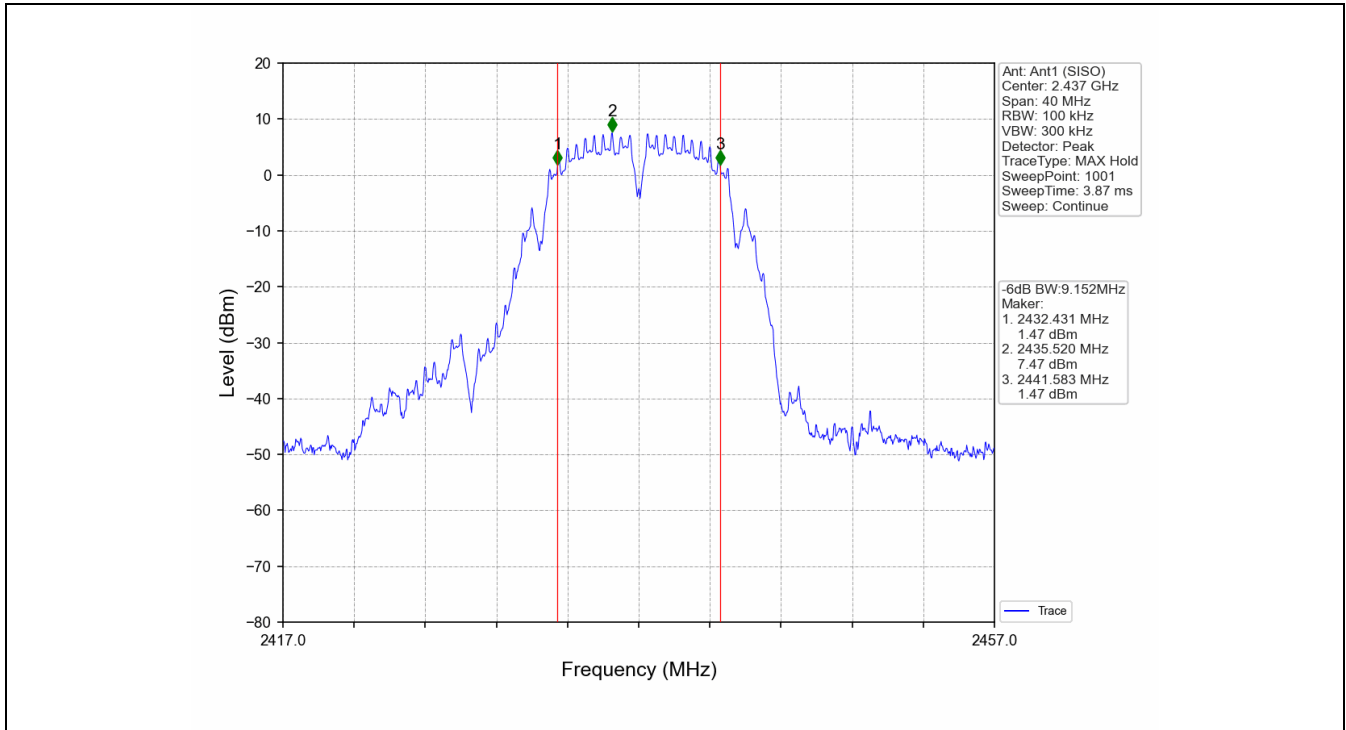
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.153	>=0.5	Pass
		2437	1	9.152	>=0.5	Pass
		2462	1	9.160	>=0.5	Pass
802.11g	SISO	2412	1	16.438	>=0.5	Pass
		2437	1	16.426	>=0.5	Pass
		2462	1	16.450	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.651	>=0.5	Pass
		2437	1	17.662	>=0.5	Pass
		2462	1	17.648	>=0.5	Pass

2.2.2 Test Graph



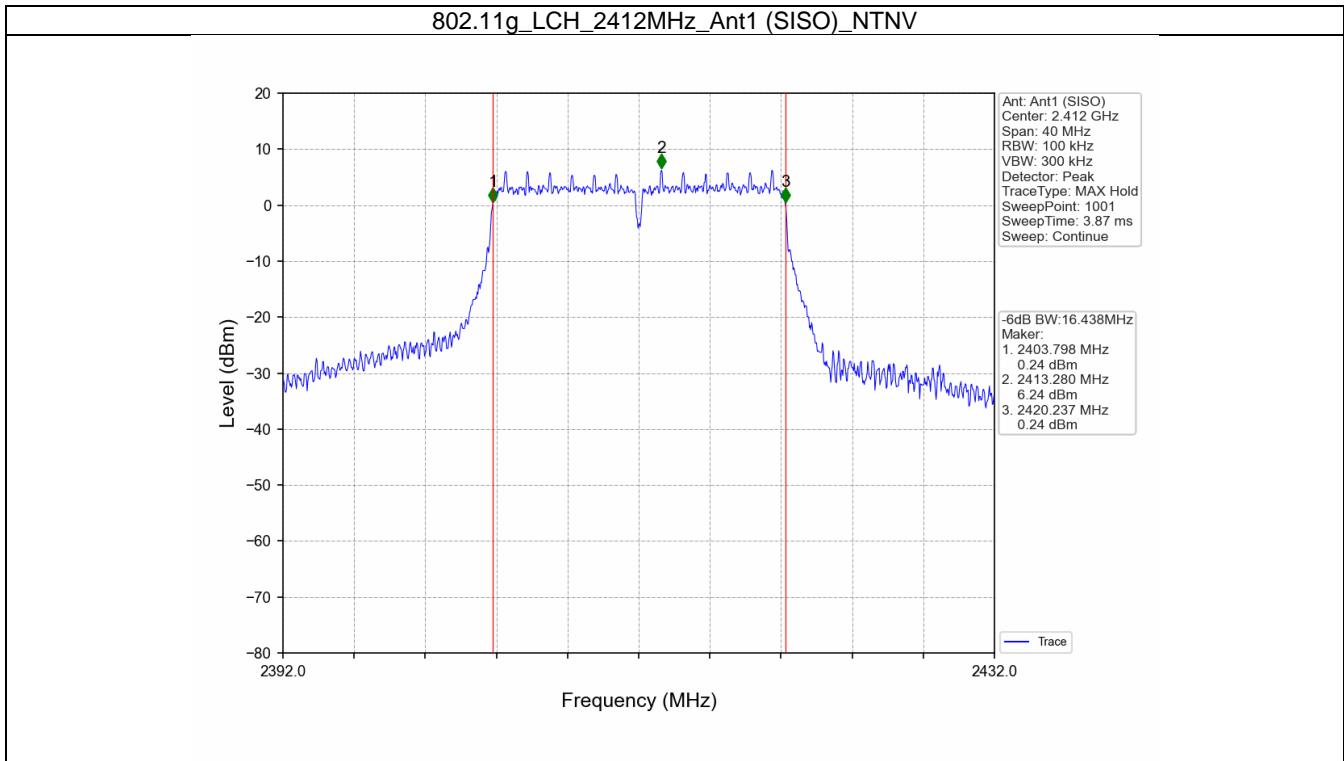
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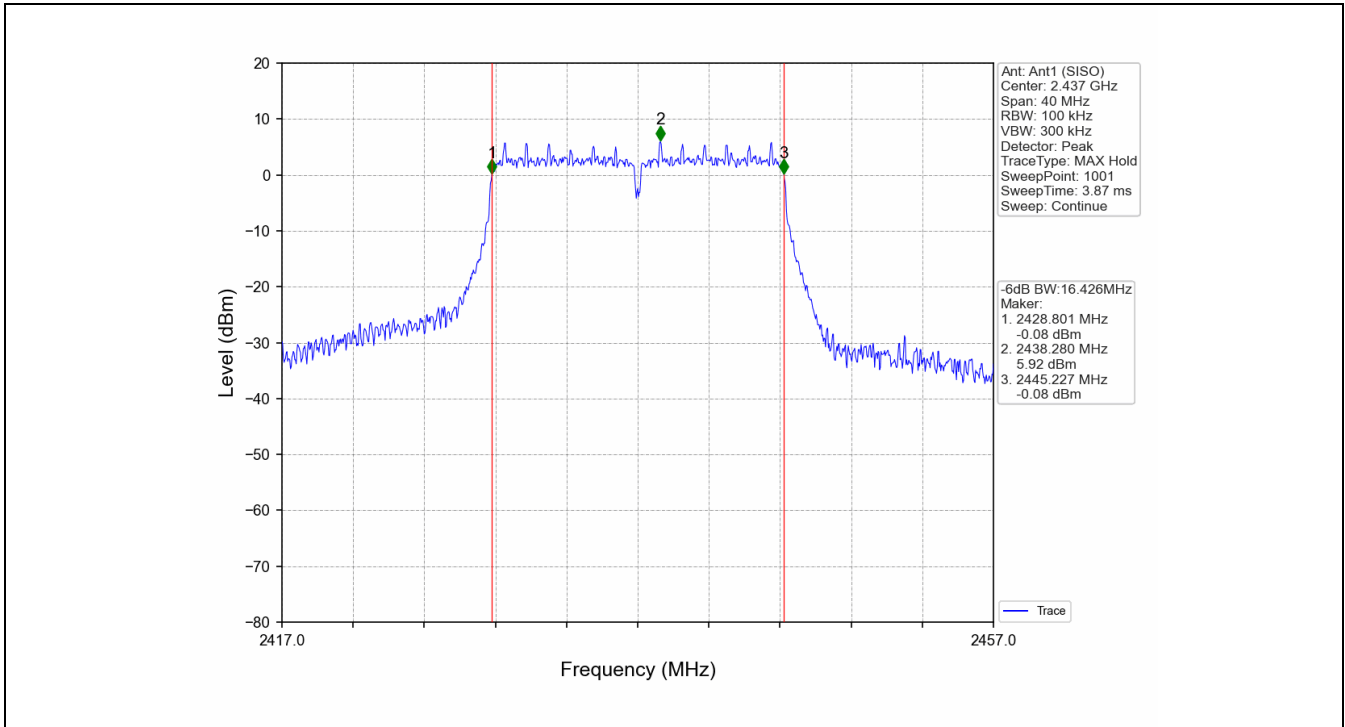


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

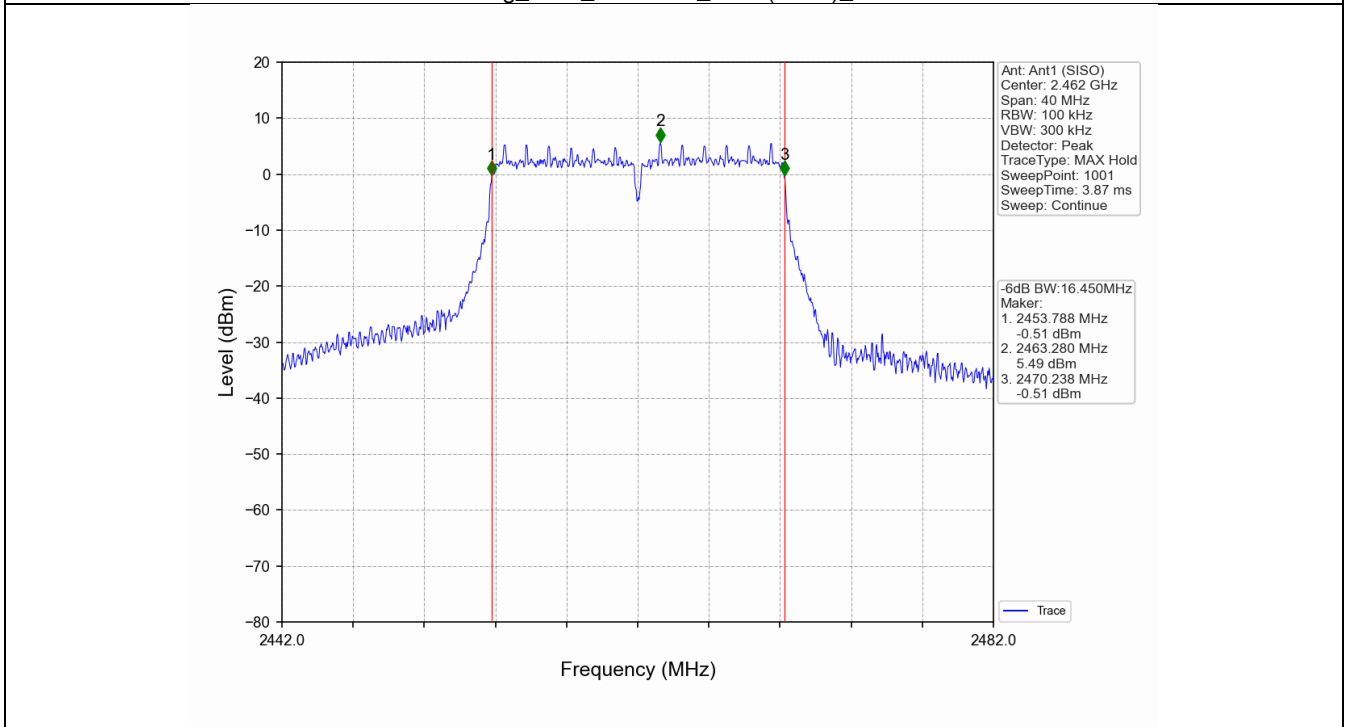


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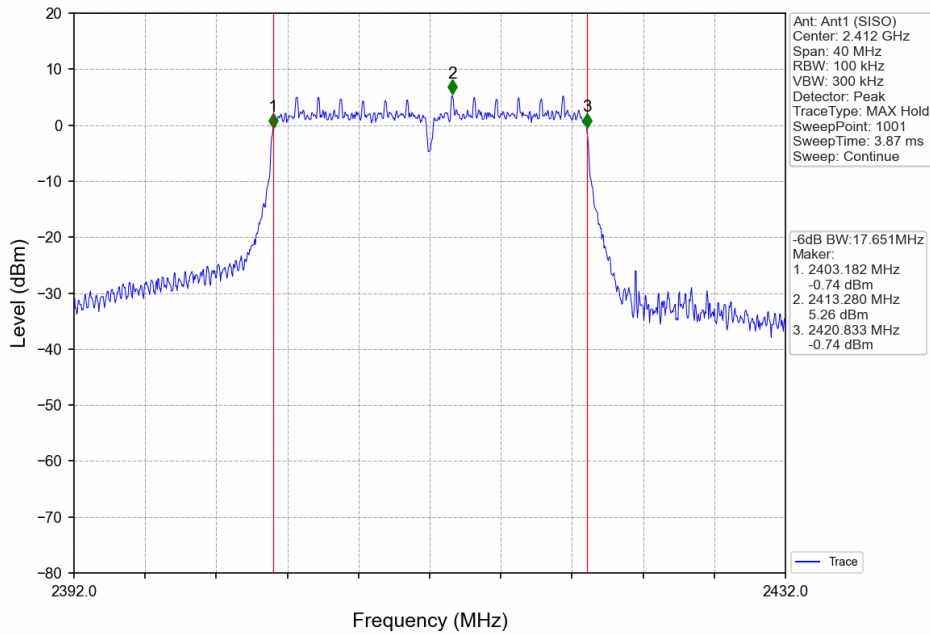
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



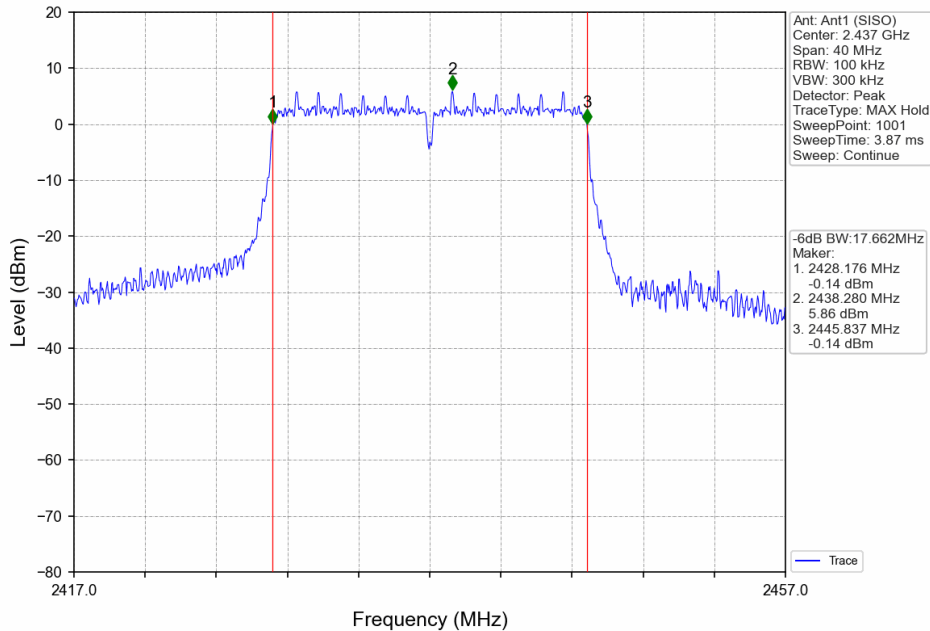
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

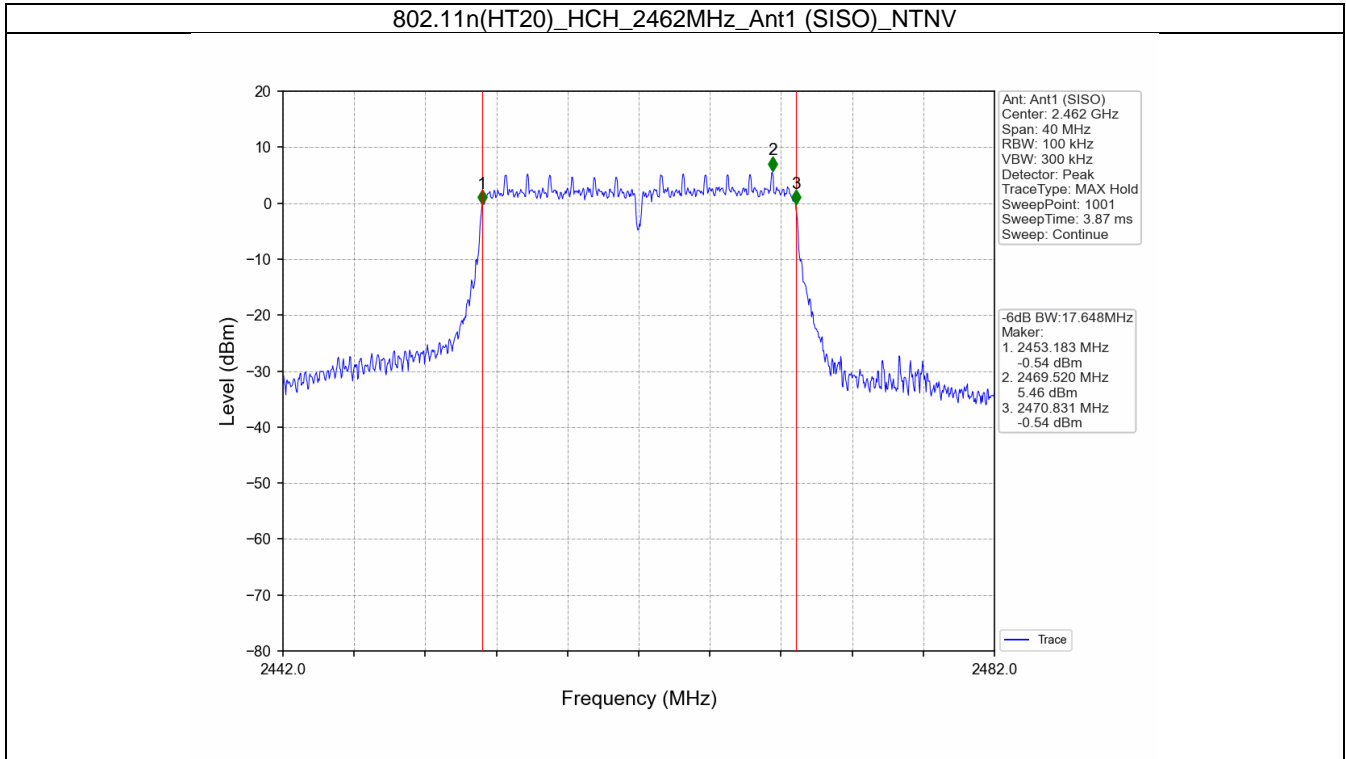


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

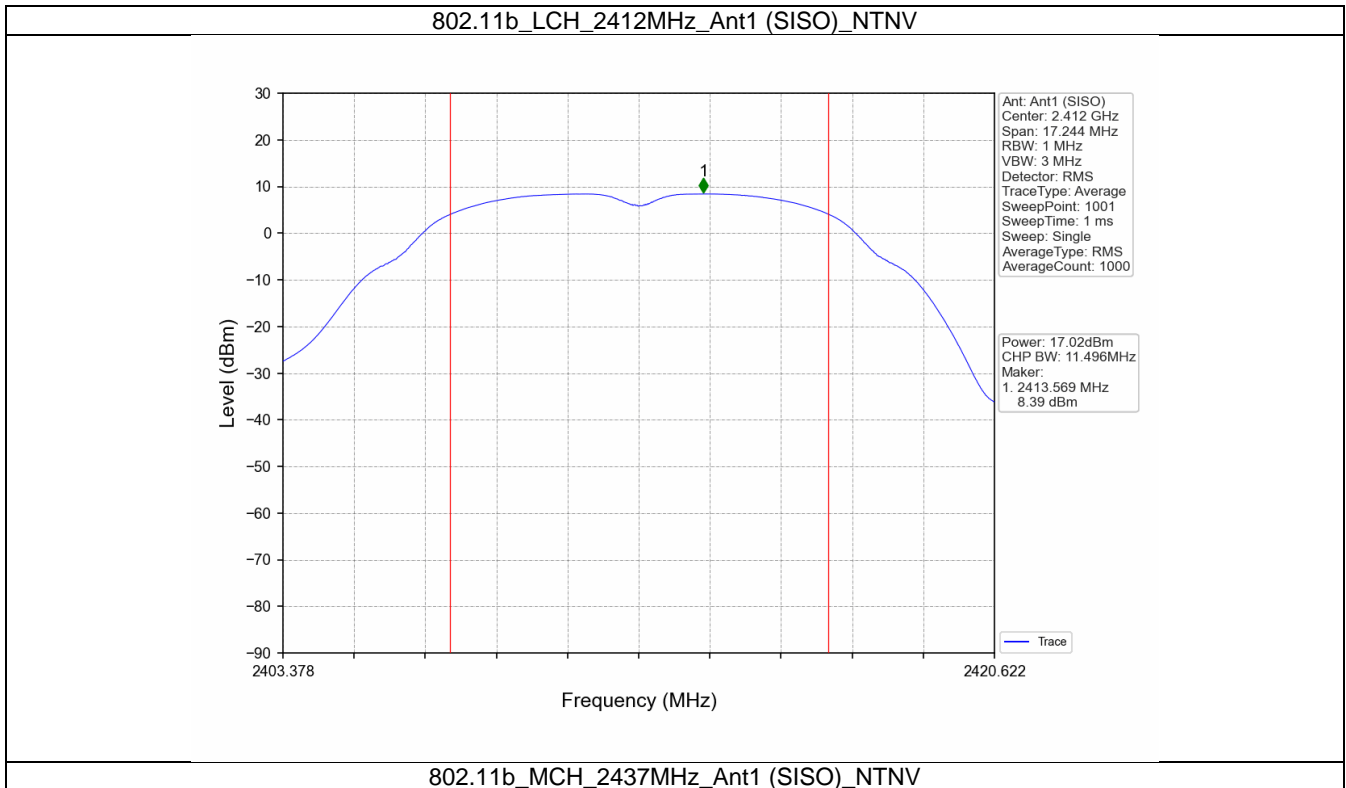
3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	17.02	<=30	Pass
		2437	17.49	<=30	Pass
		2462	16.39	<=30	Pass
802.11g	SISO	2412	17.62	<=30	Pass
		2437	17.32	<=30	Pass
		2462	16.87	<=30	Pass
802.11n (HT20)	SISO	2412	17.74	<=30	Pass
		2437	17.23	<=30	Pass
		2462	16.87	<=30	Pass

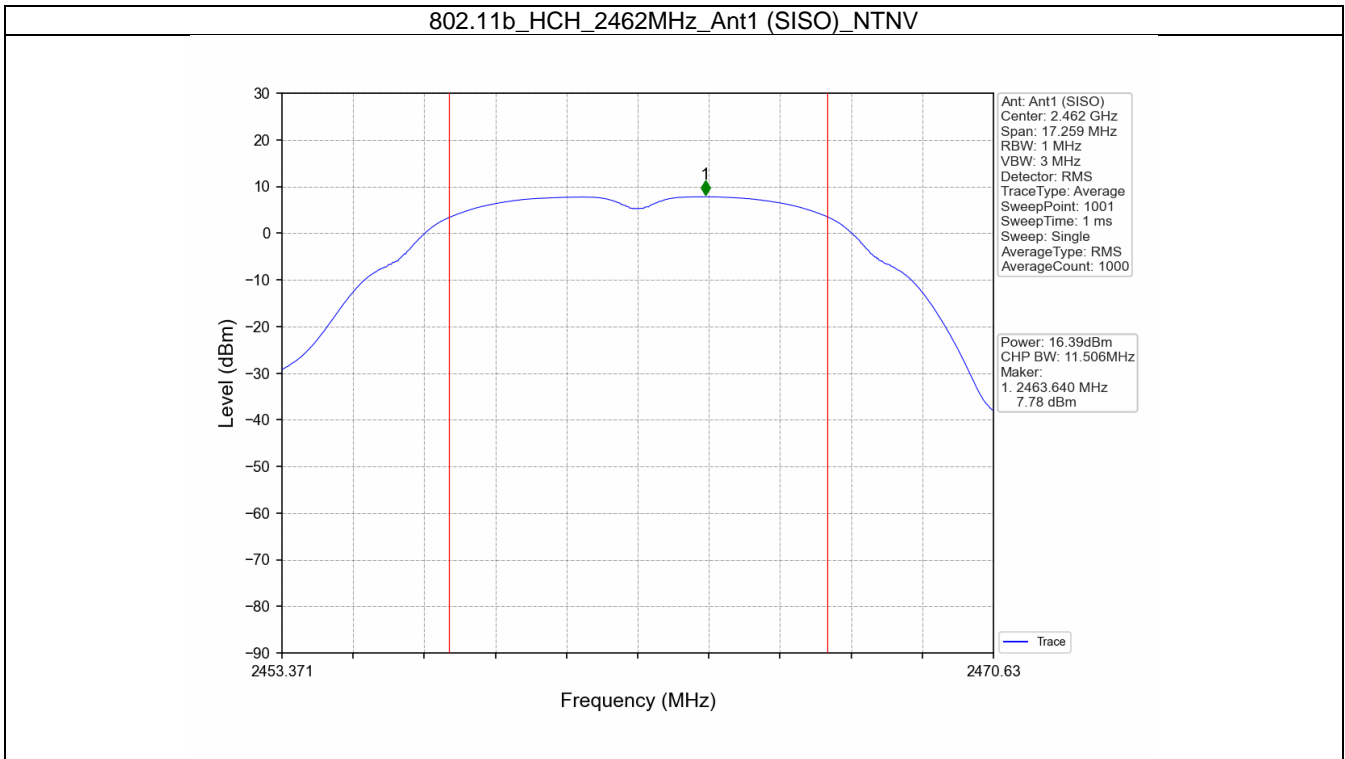
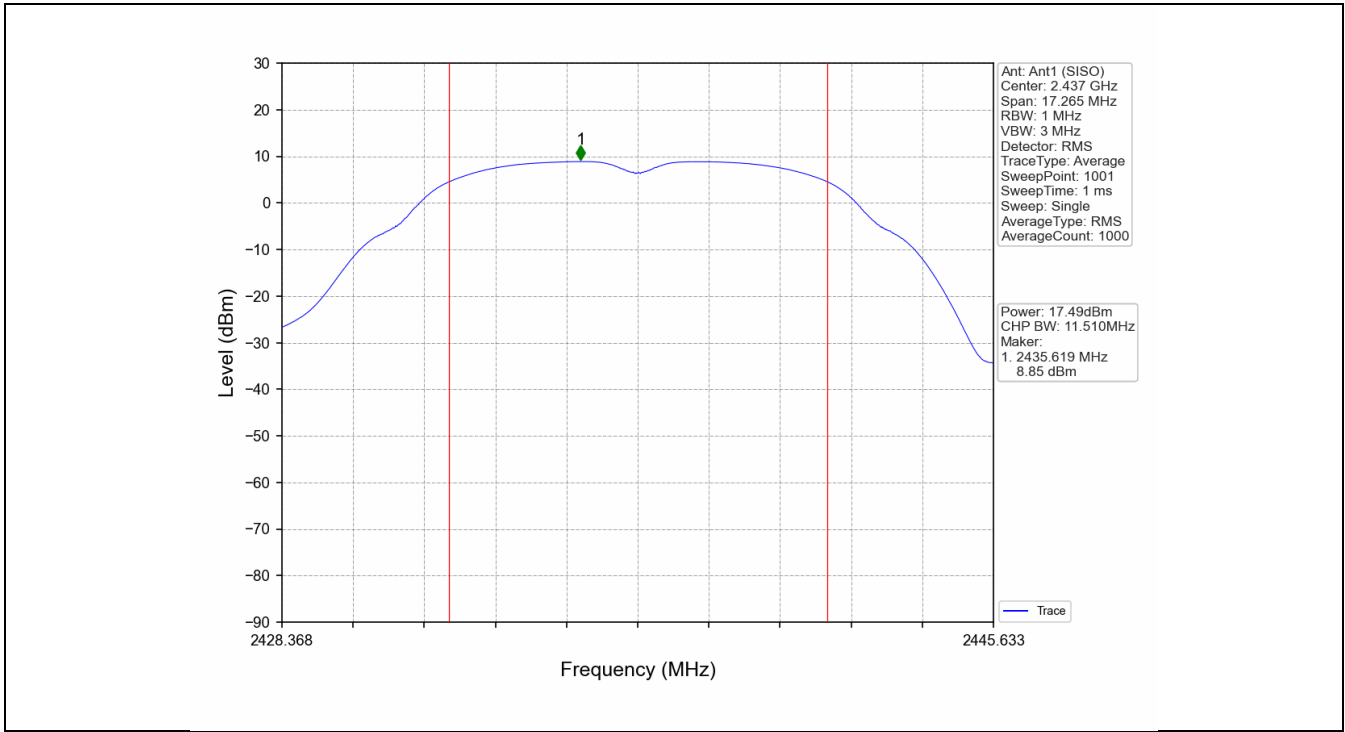
Note1: Antenna Gain: Ant1: 2.00dBi;

3.1.2 Test Graph



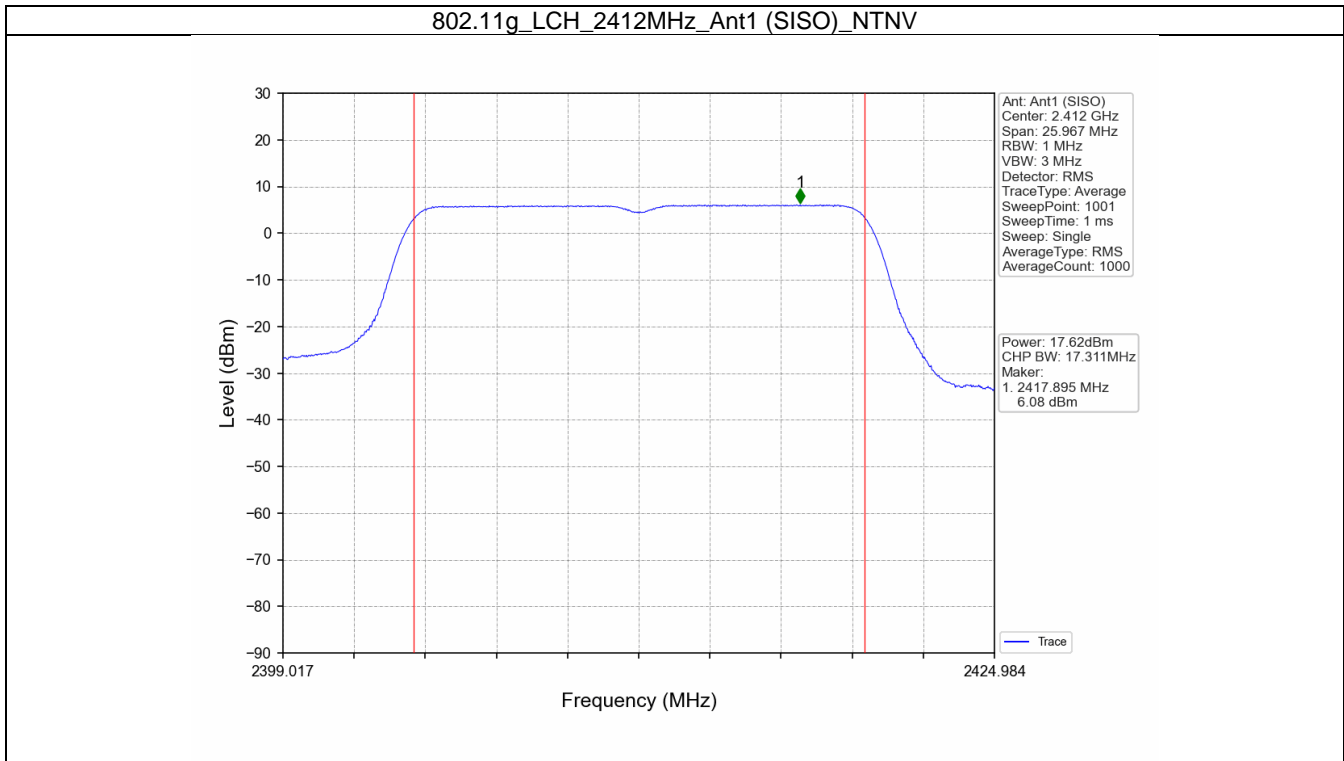
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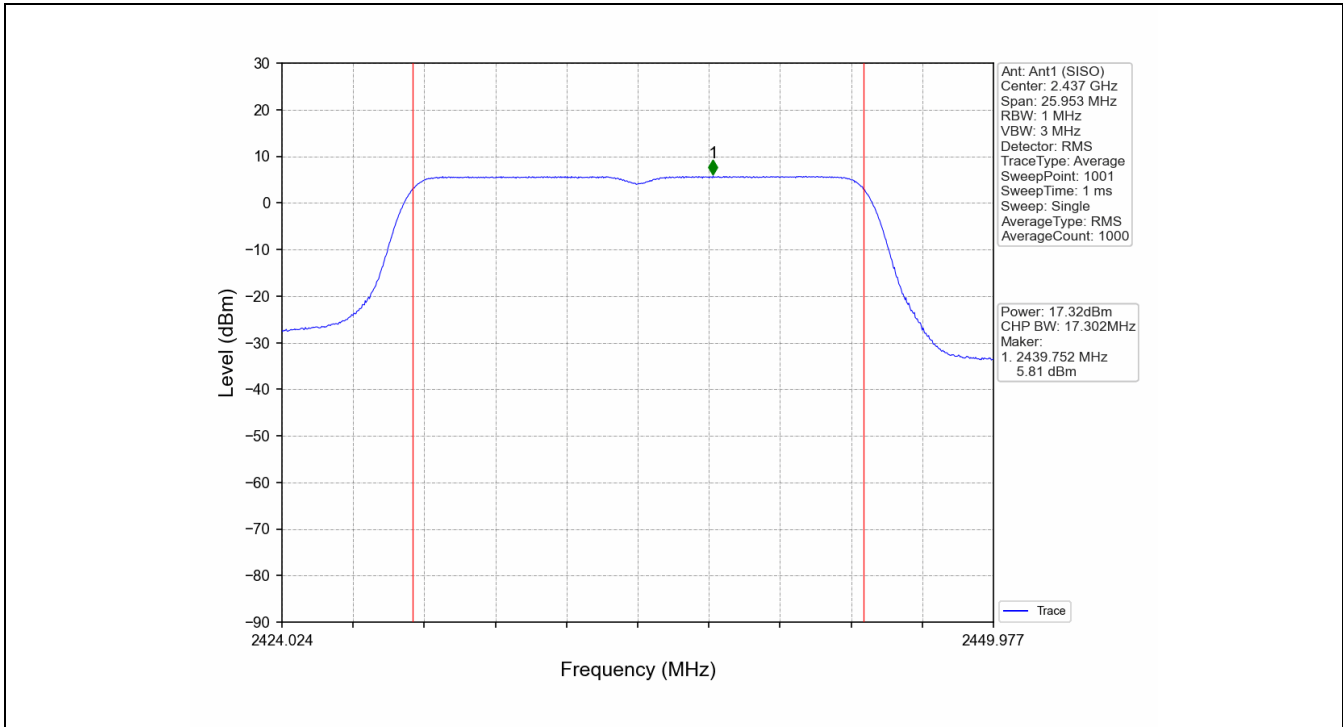


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

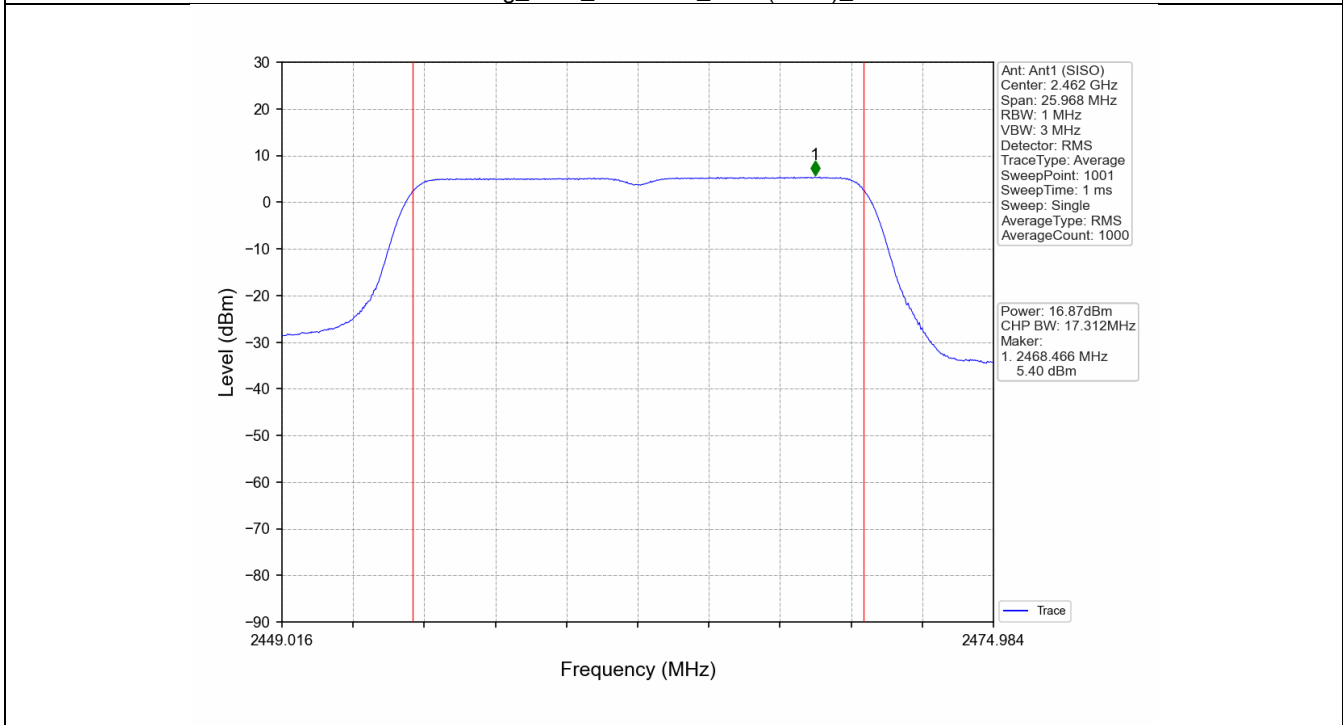


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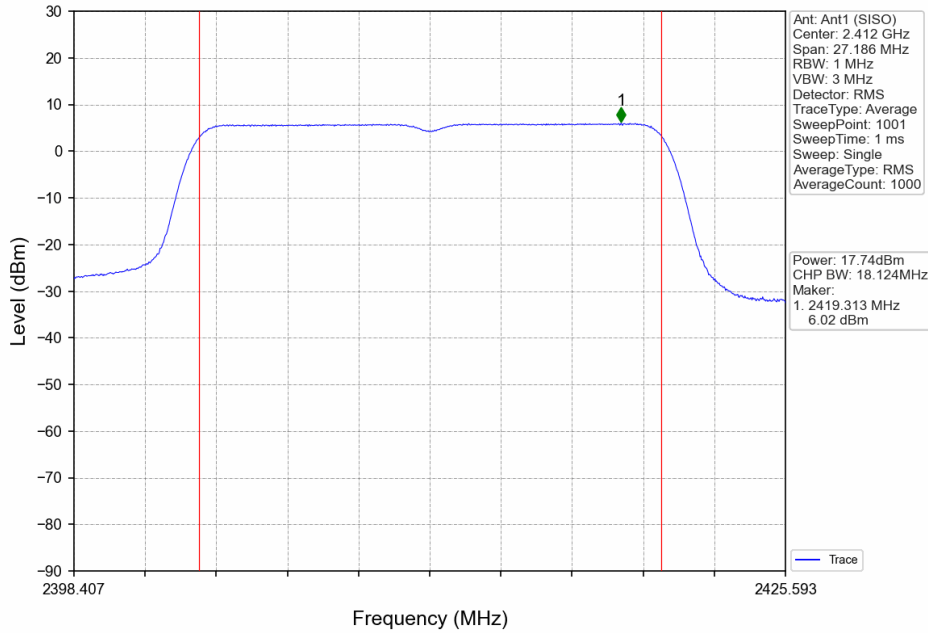
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



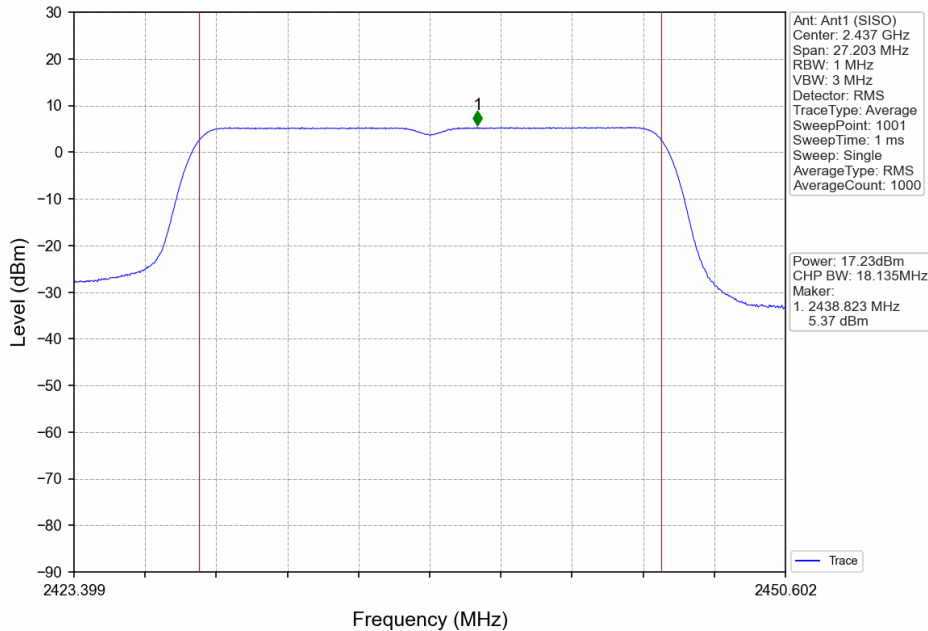
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

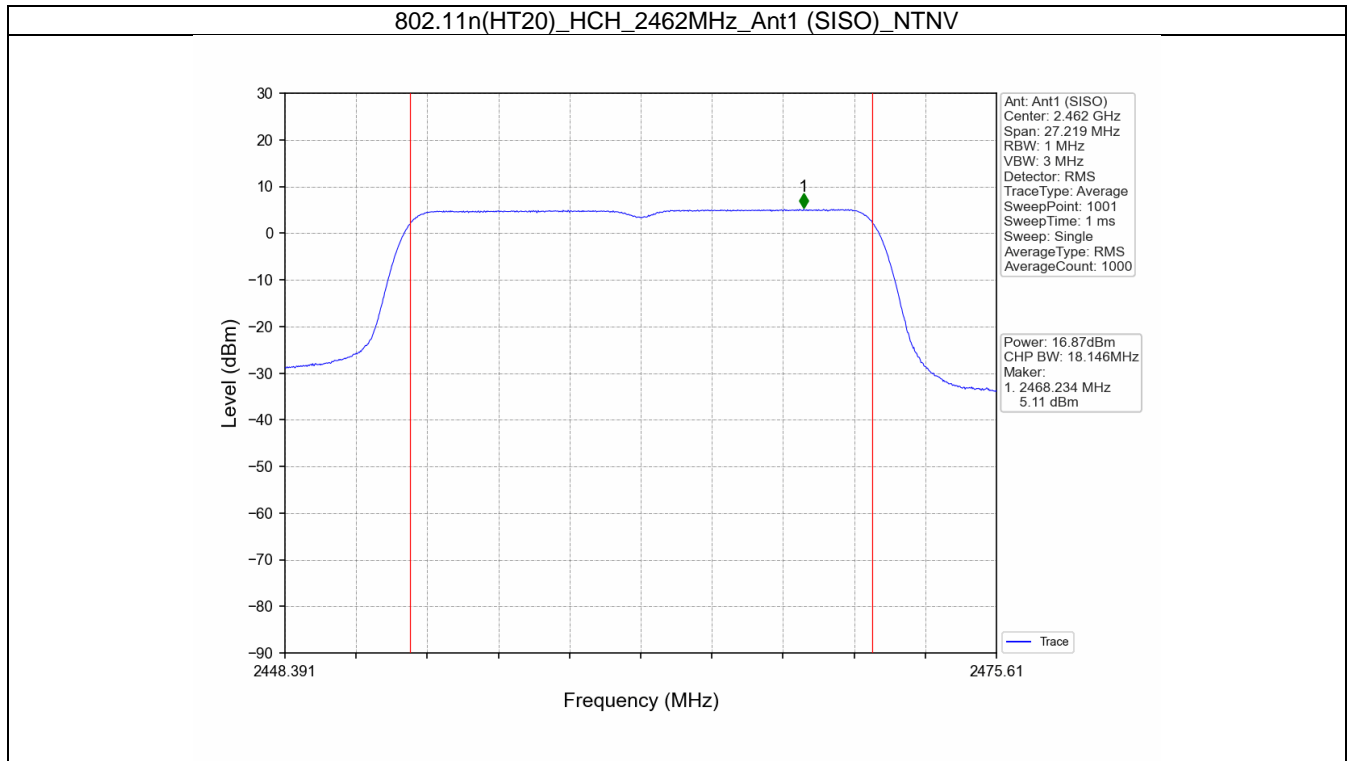


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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4. Maximum Power Spectral Density

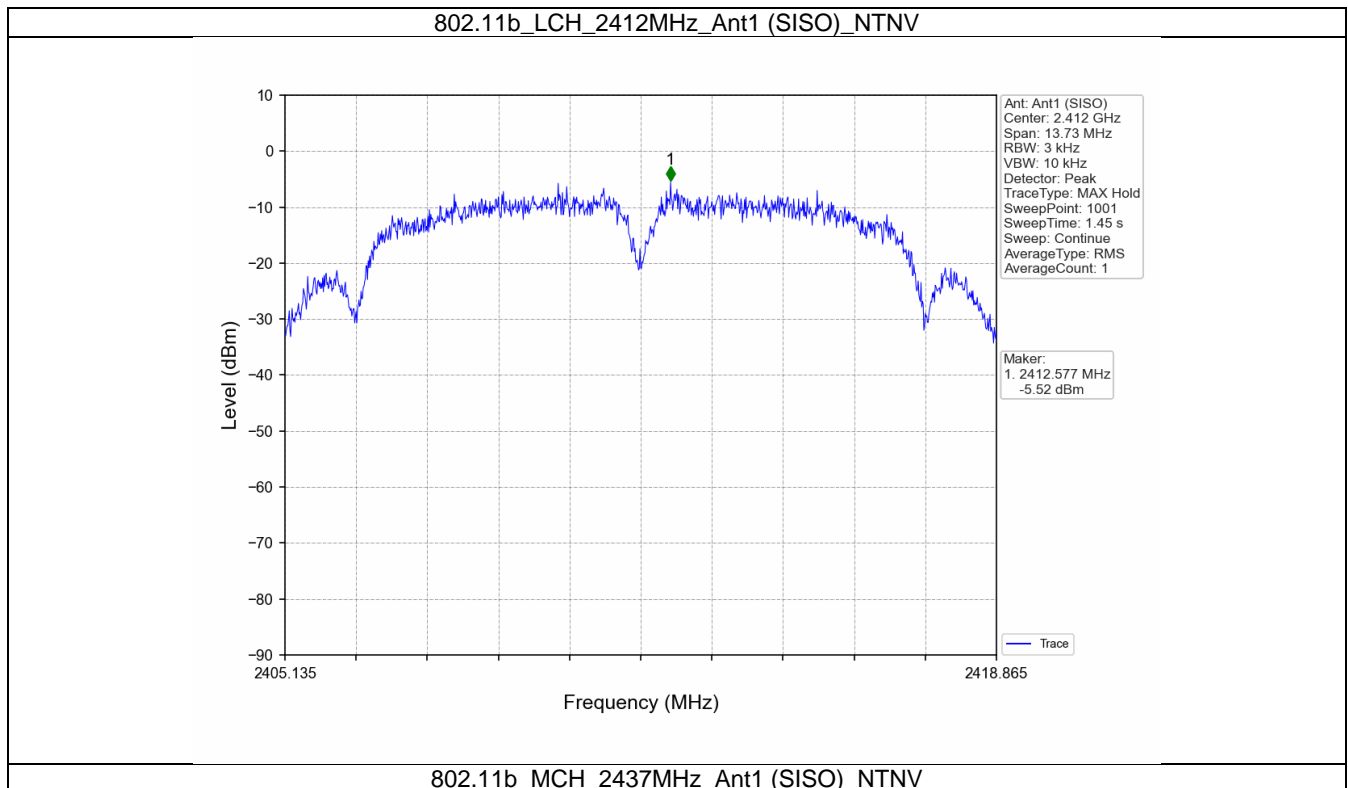
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-5.52	<=8	Pass
		2437	-5.33	<=8	Pass
		2462	-6.69	<=8	Pass
802.11g	SISO	2412	-7.11	<=8	Pass
		2437	-6.97	<=8	Pass
		2462	-8.40	<=8	Pass
802.11n (HT20)	SISO	2412	-7.48	<=8	Pass
		2437	-6.84	<=8	Pass
		2462	-8.96	<=8	Pass

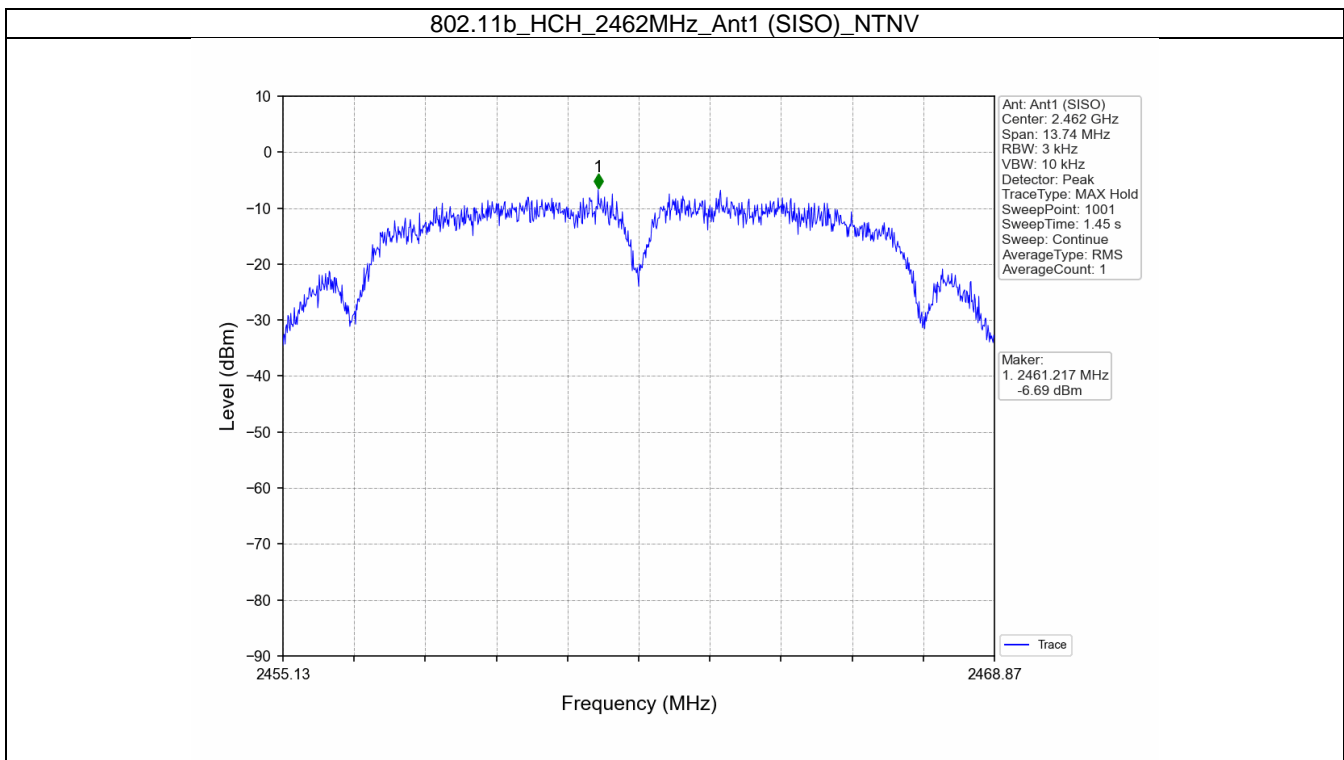
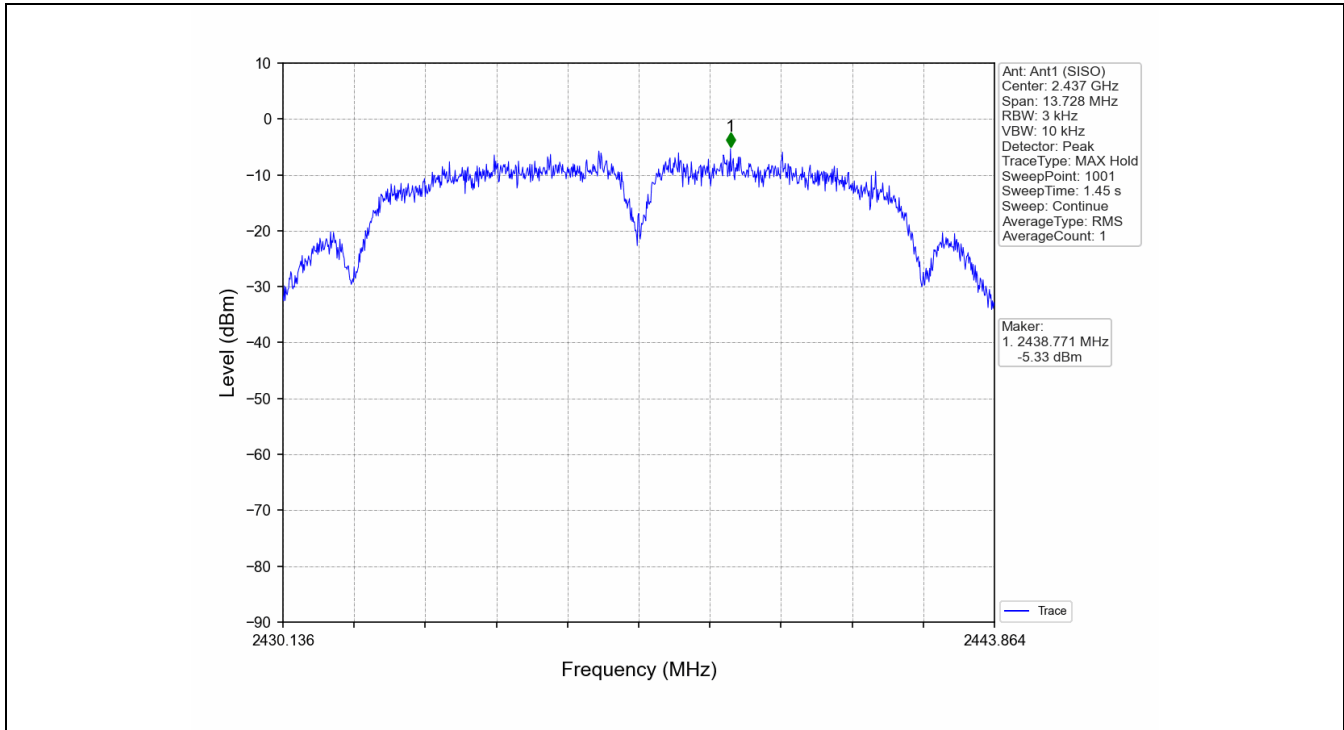
Note1: Antenna Gain: Ant1: 2.00dBi;

4.1.2 Test Graph



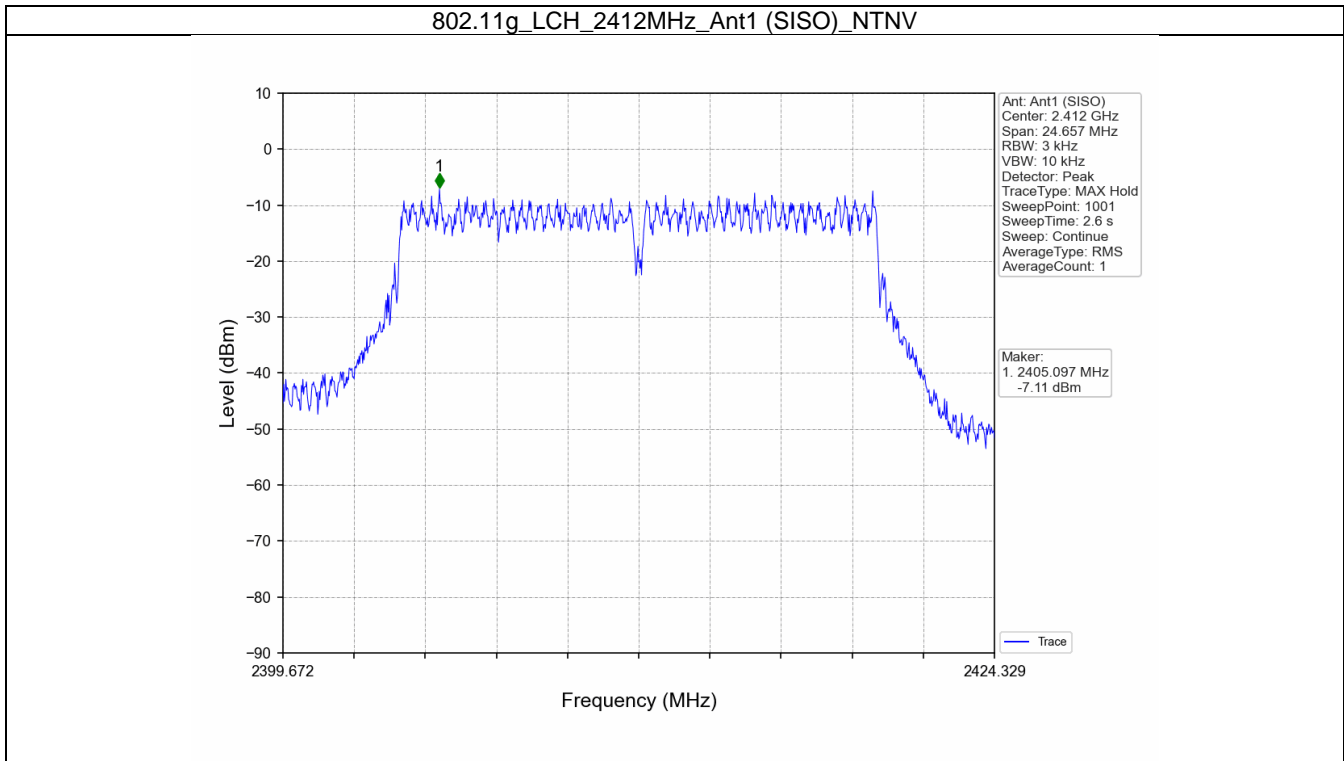
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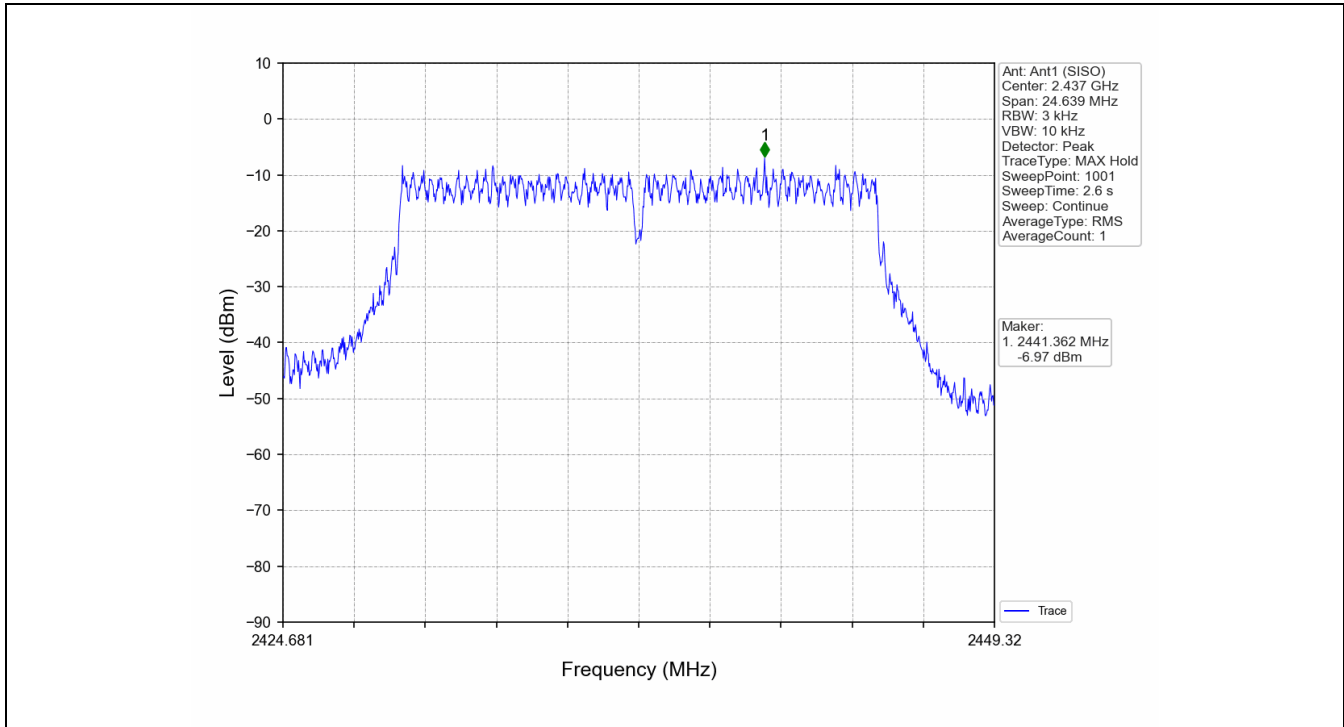


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

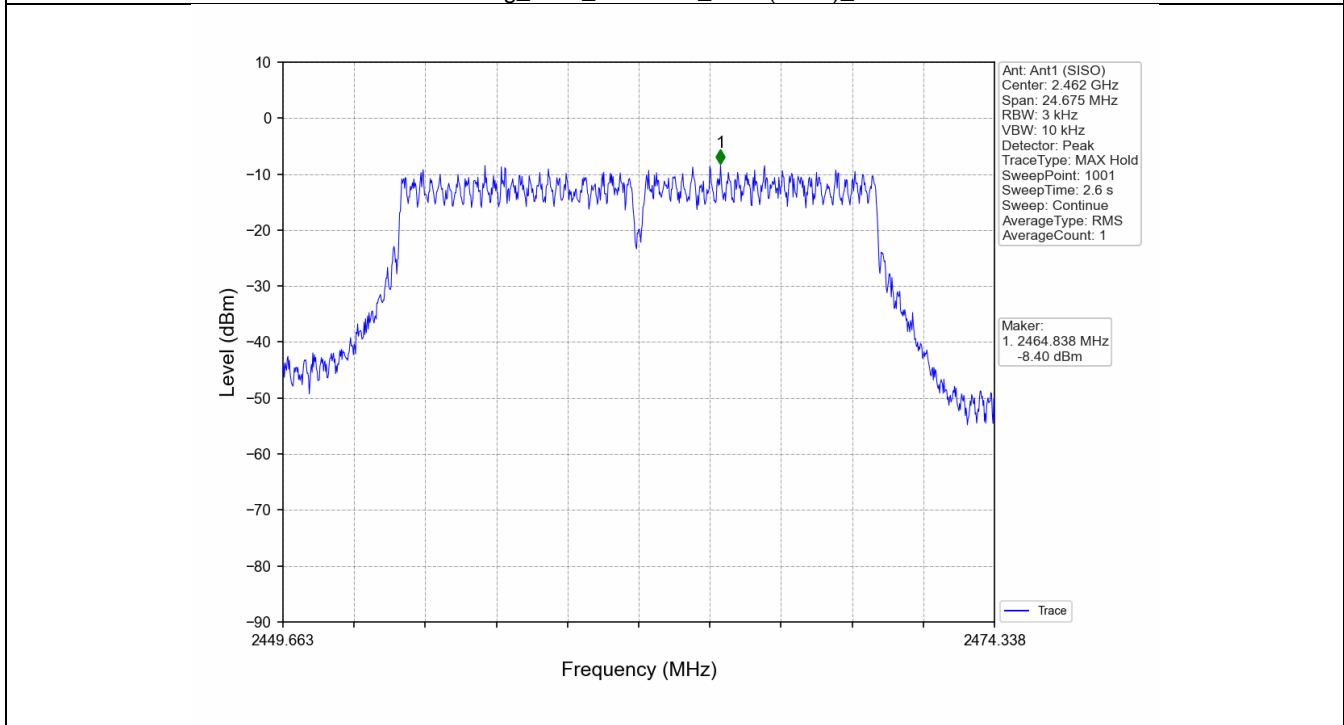


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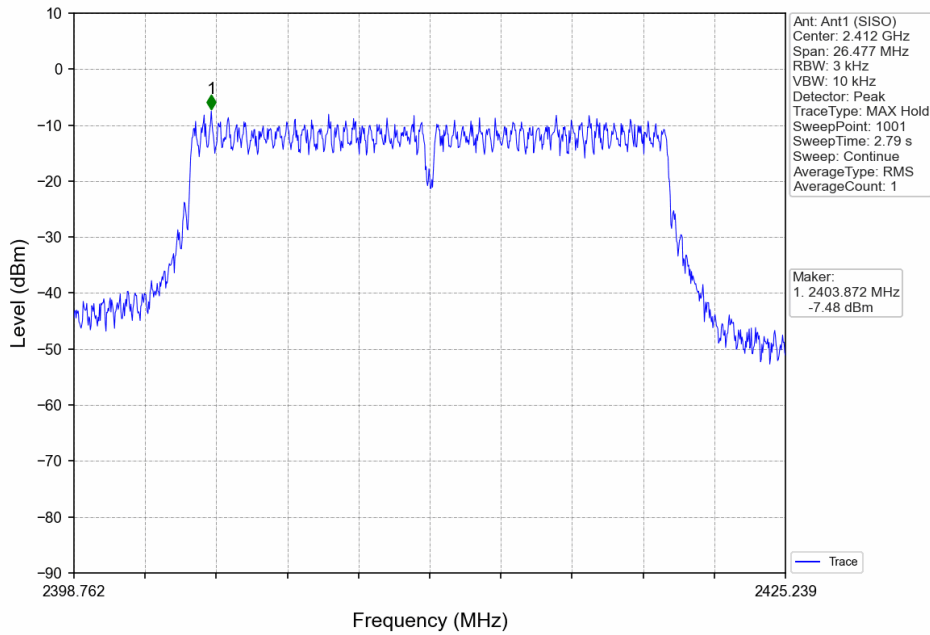
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



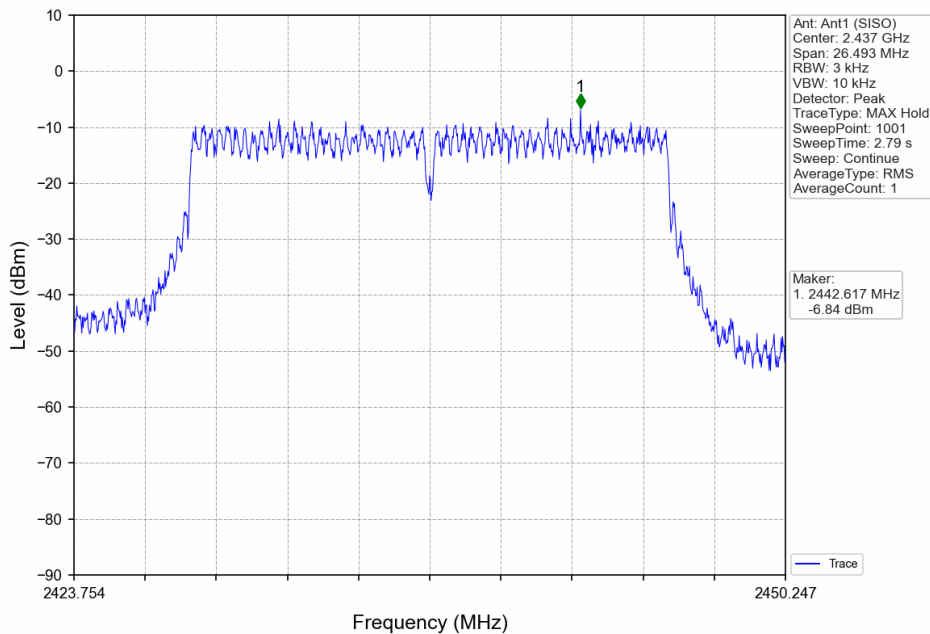
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

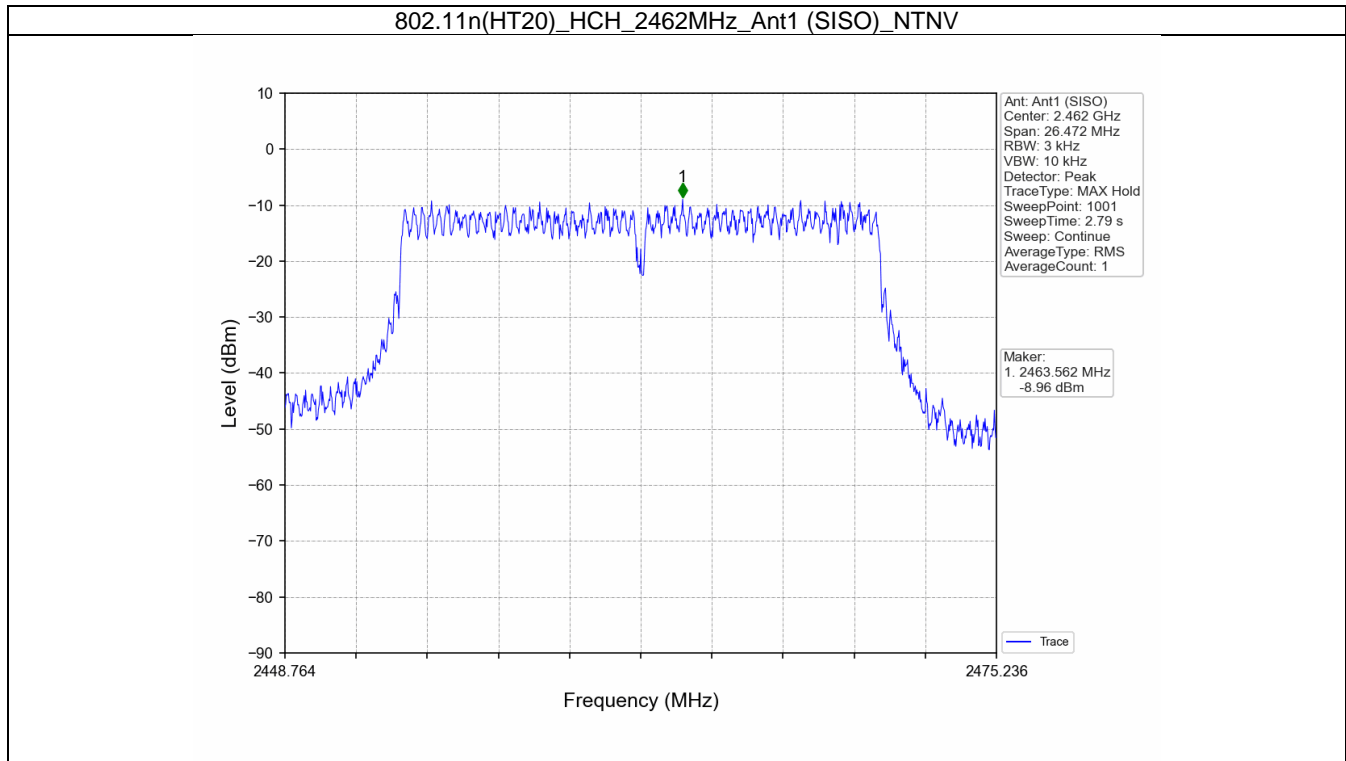


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

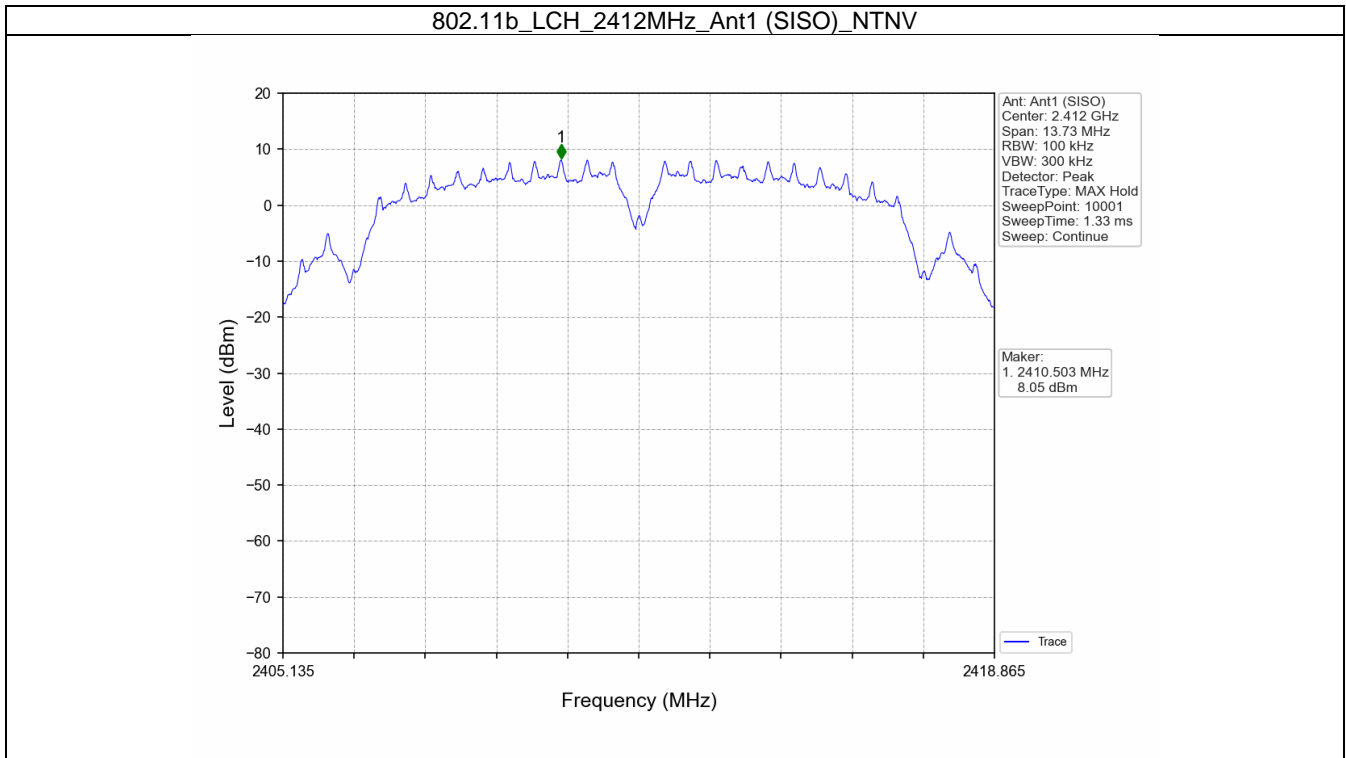
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	8.05
		2437	1	7.41
		2462	1	7.44
802.11g	SISO	2412	1	5.95
		2437	1	5.83
		2462	1	5.49
802.11n (HT20)	SISO	2412	1	5.10
		2437	1	5.72
		2462	1	5.47

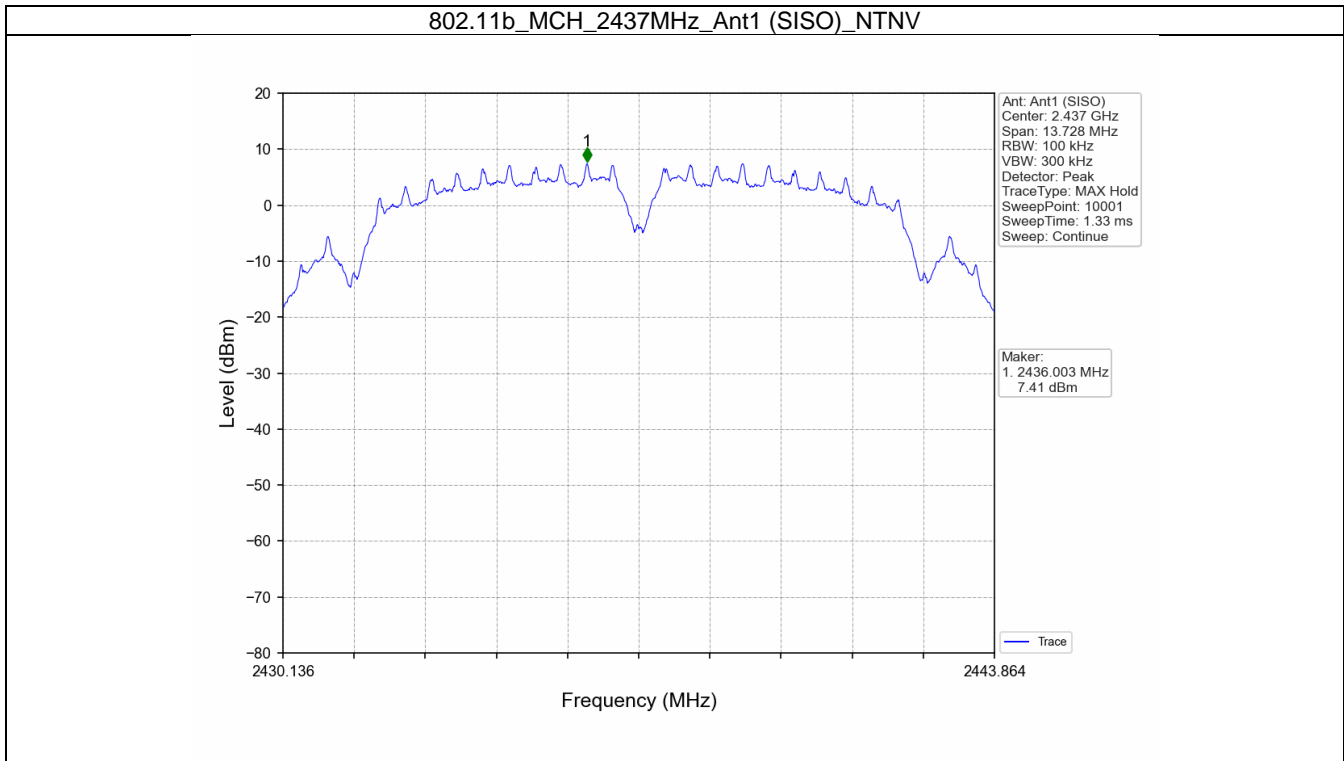
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph



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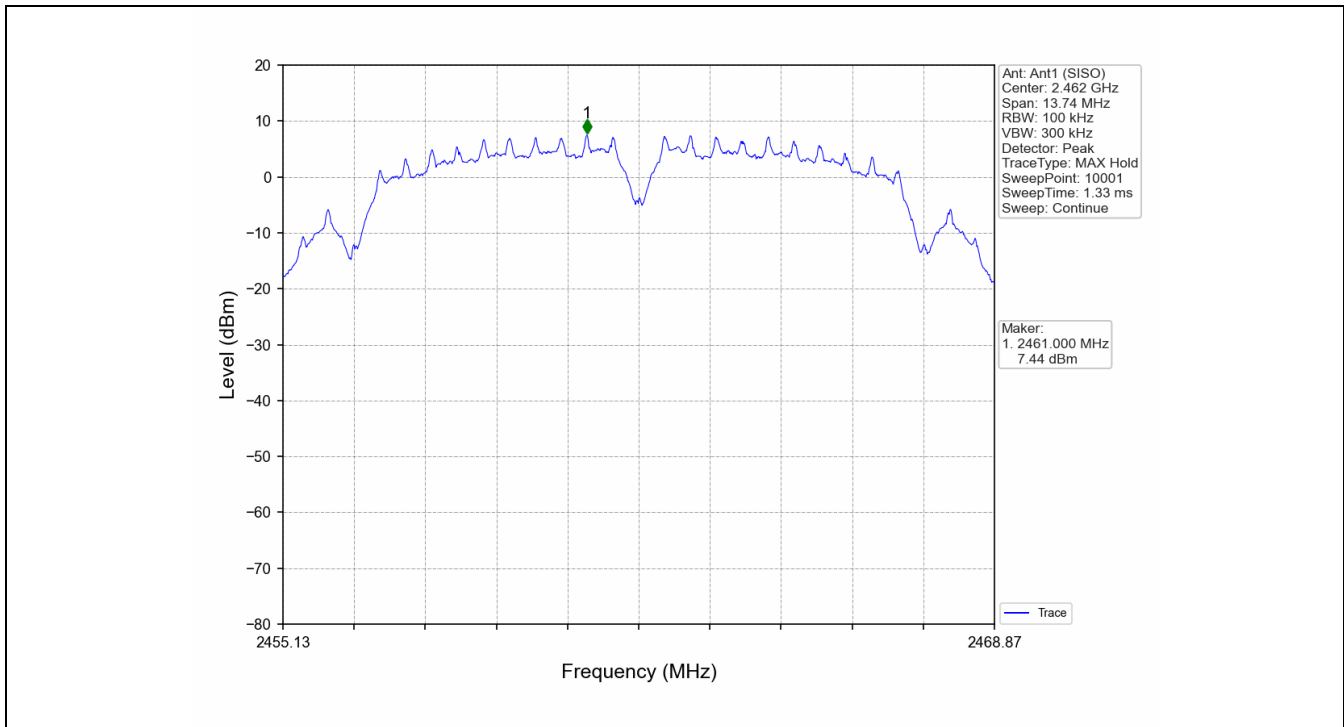


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

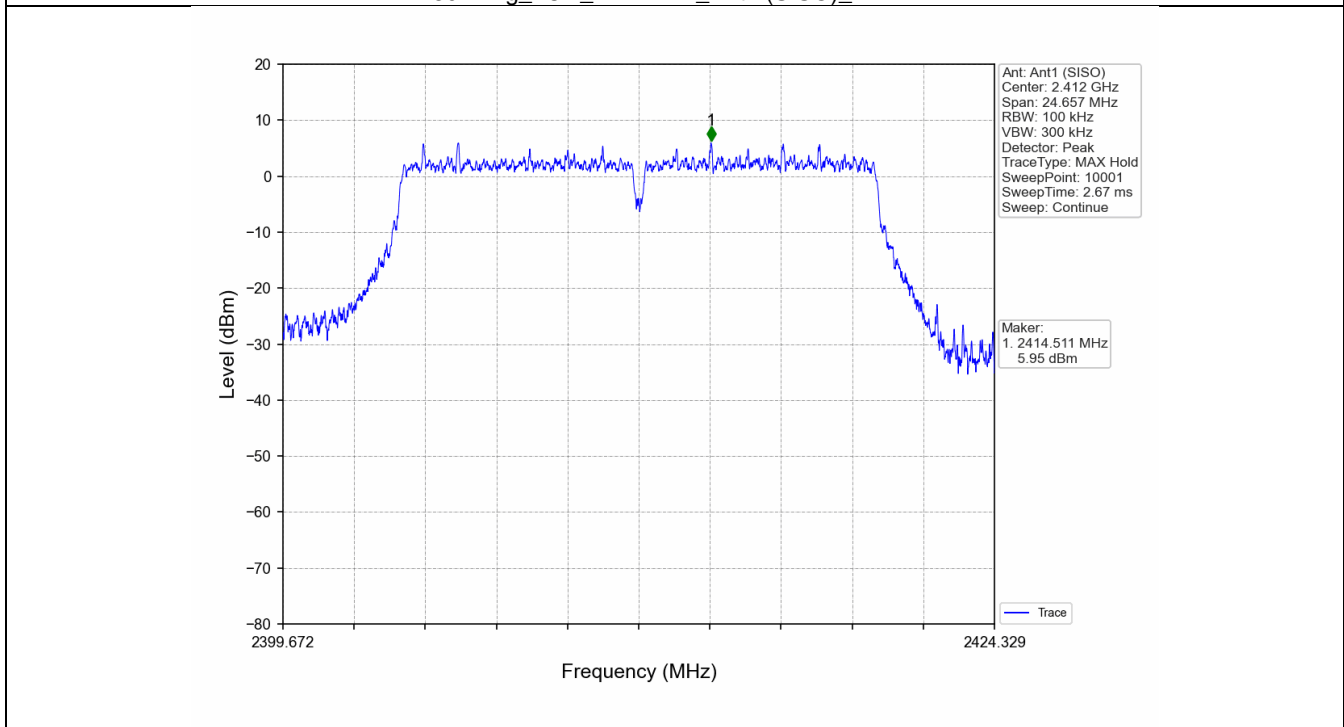


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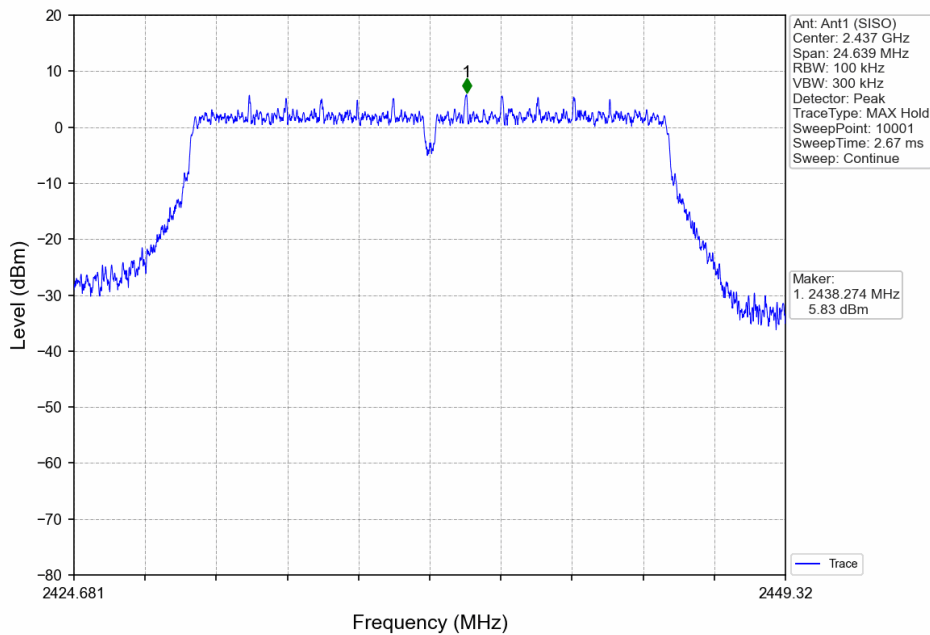
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



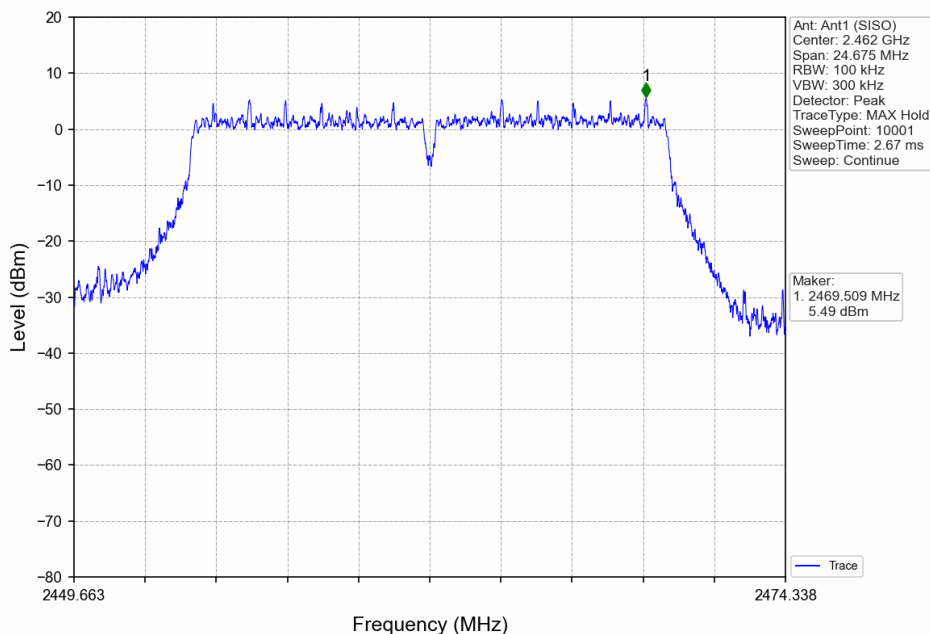
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



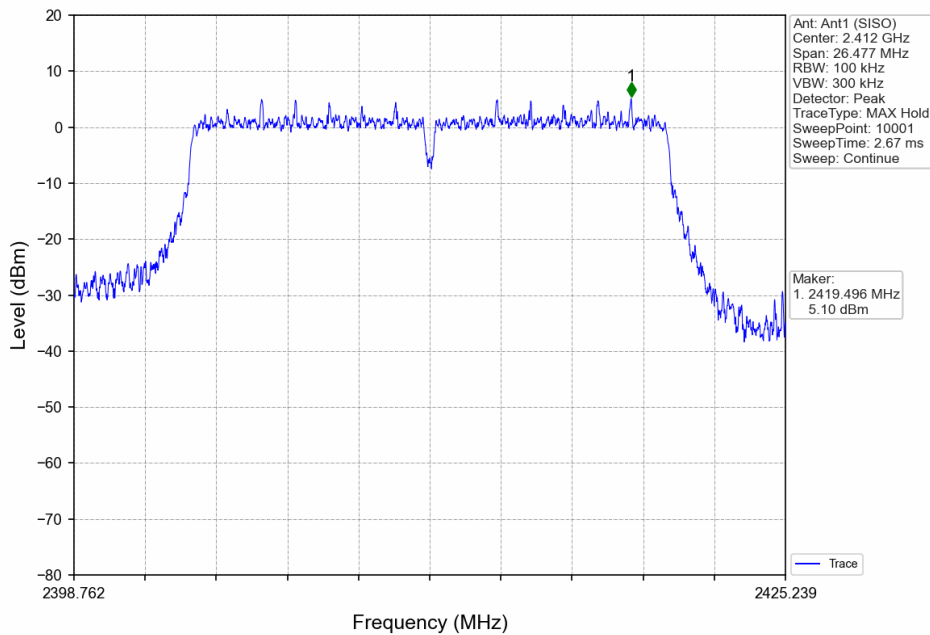
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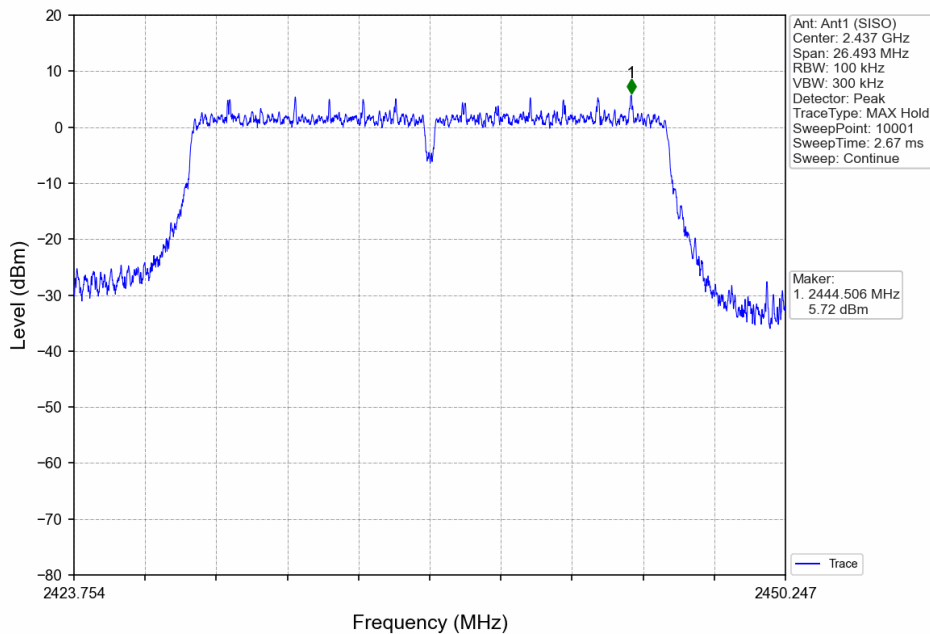
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

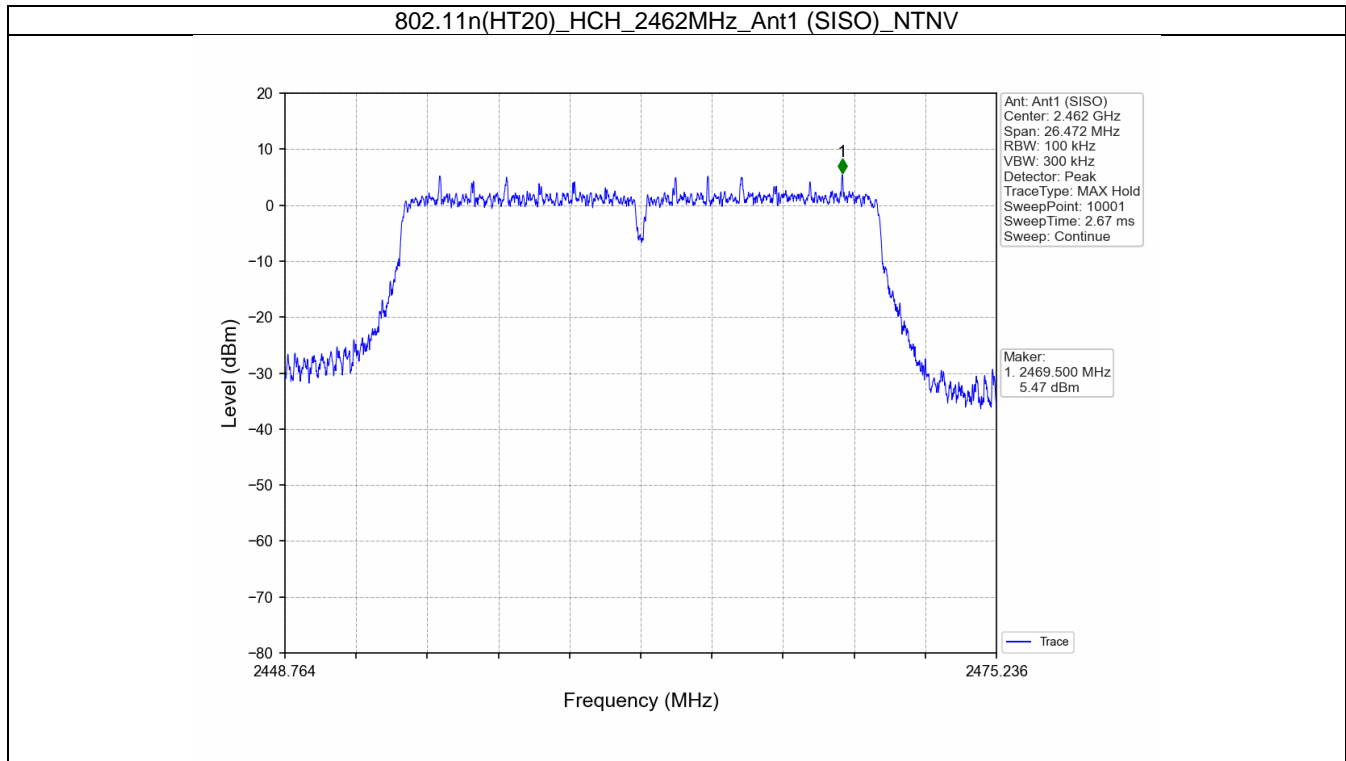


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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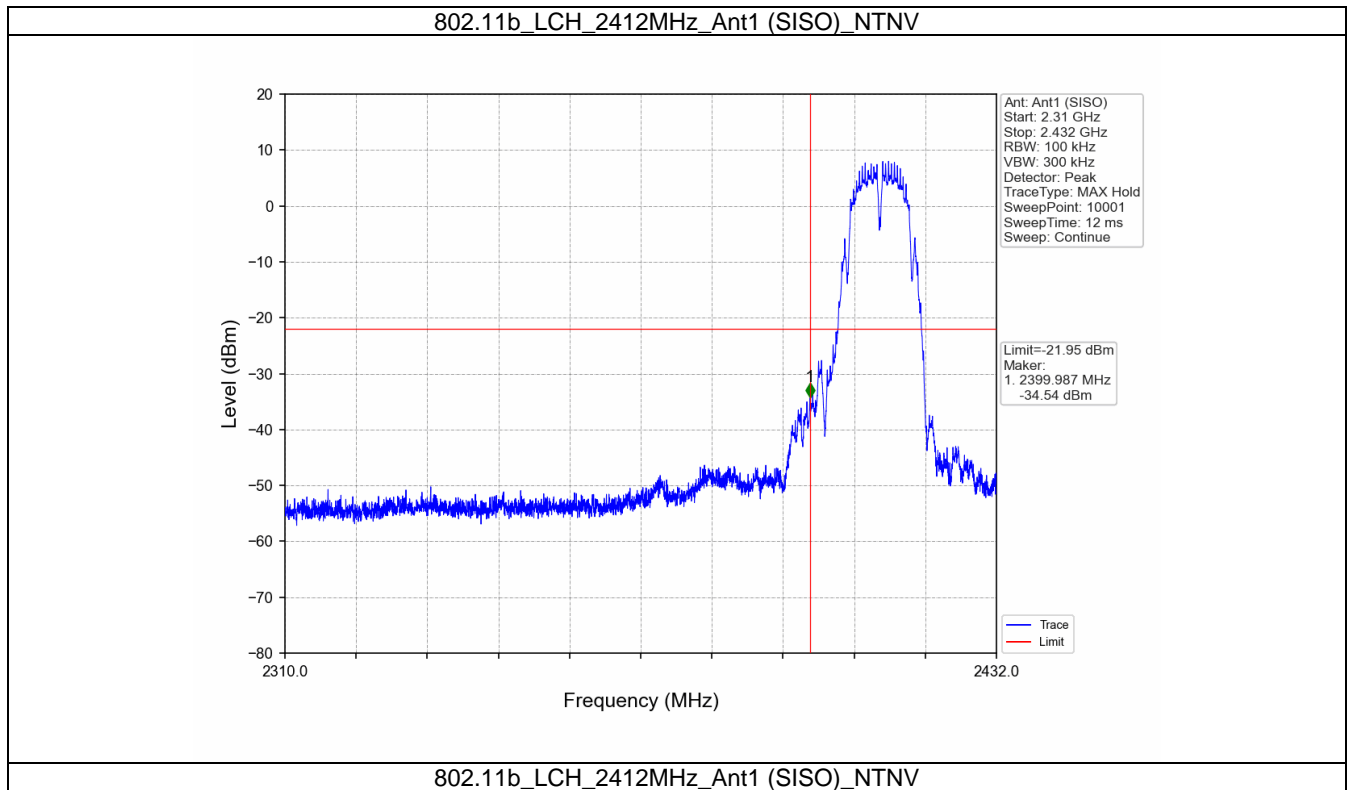
5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.05	-21.95	Pass
		2437	1	8.05	-21.95	Pass
		2462	1	8.05	-21.95	Pass
802.11g	SISO	2412	1	5.95	-24.05	Pass
		2437	1	5.95	-24.05	Pass
		2462	1	5.95	-24.05	Pass
802.11n (HT20)	SISO	2412	1	5.72	-24.28	Pass
		2437	1	5.72	-24.28	Pass
		2462	1	5.72	-24.28	Pass

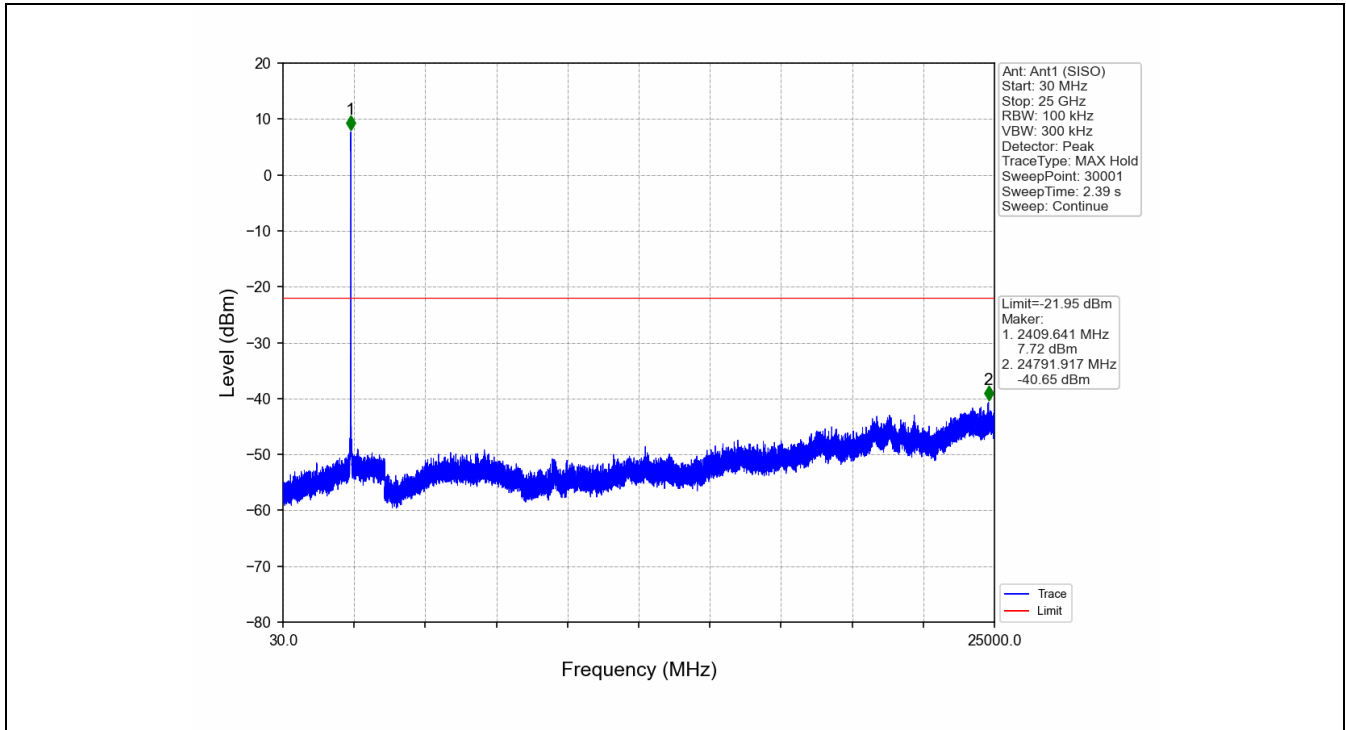
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2.2 Test Graph

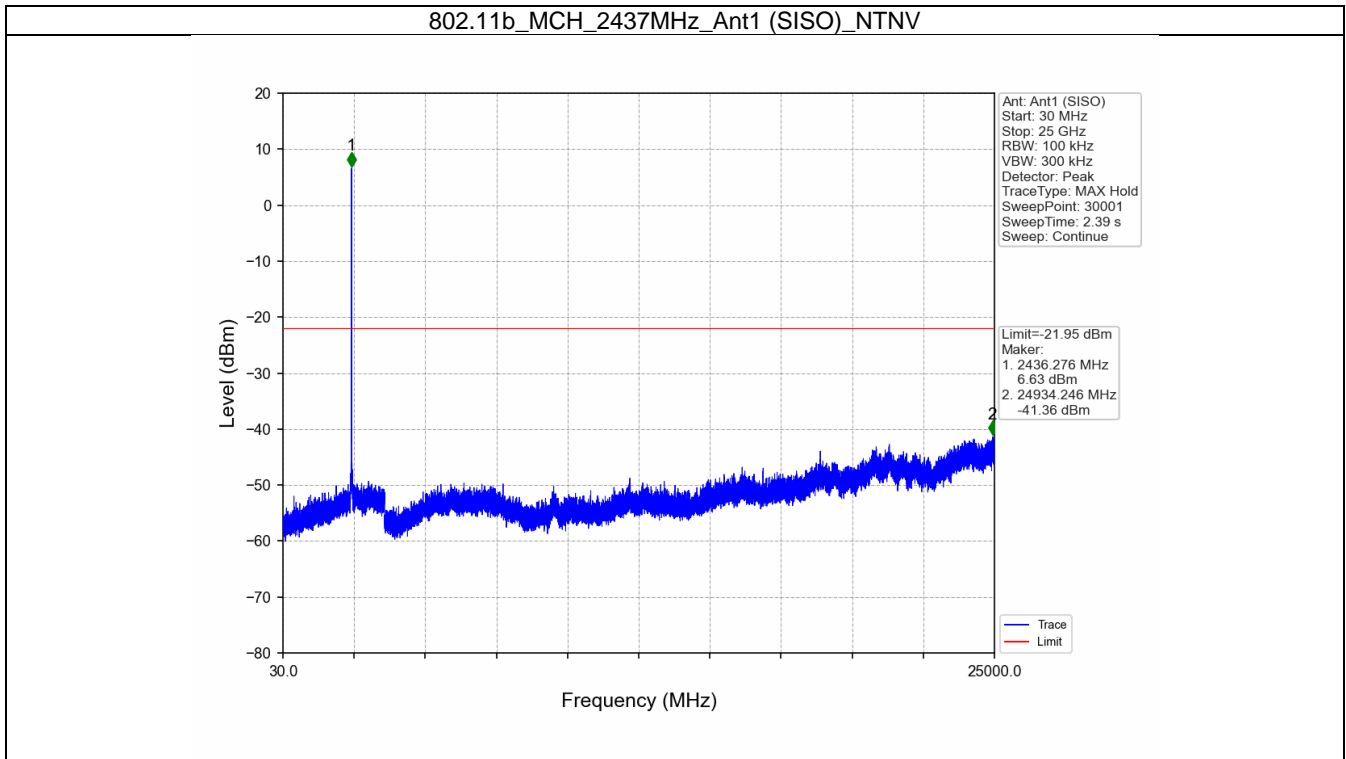


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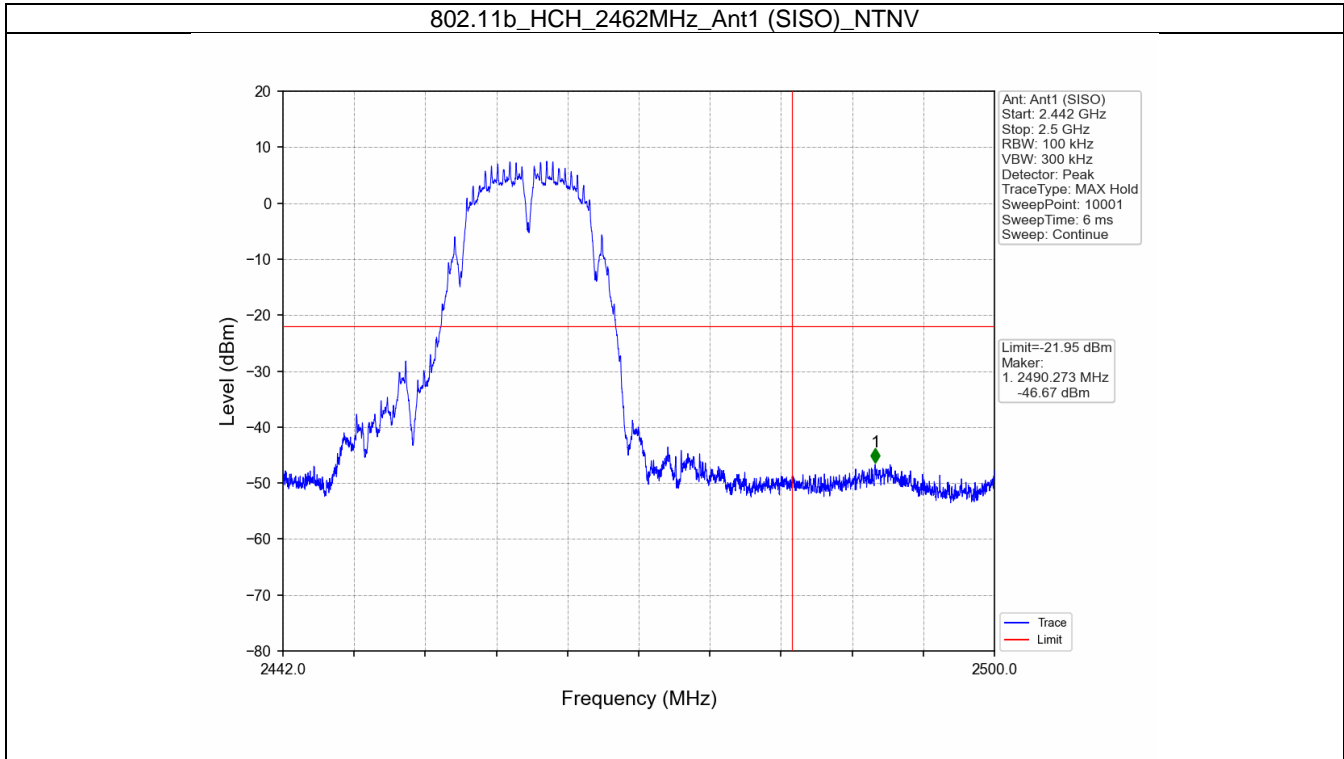


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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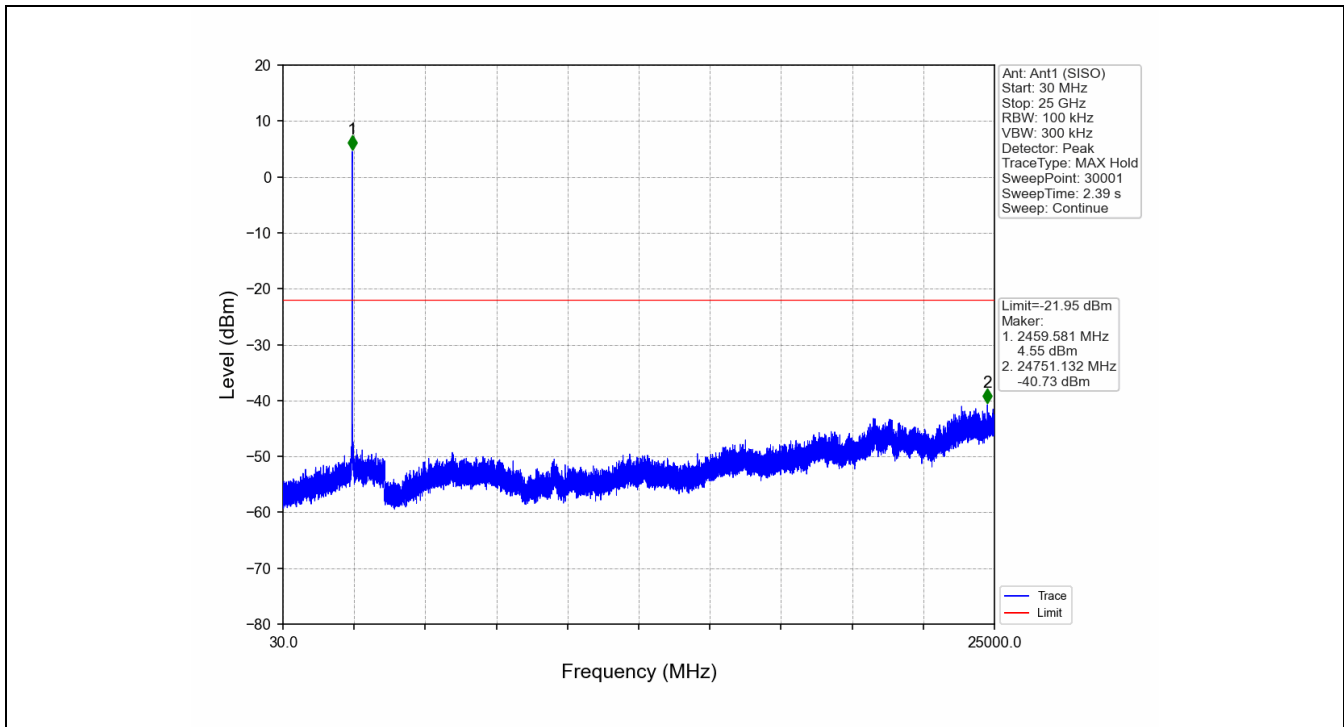


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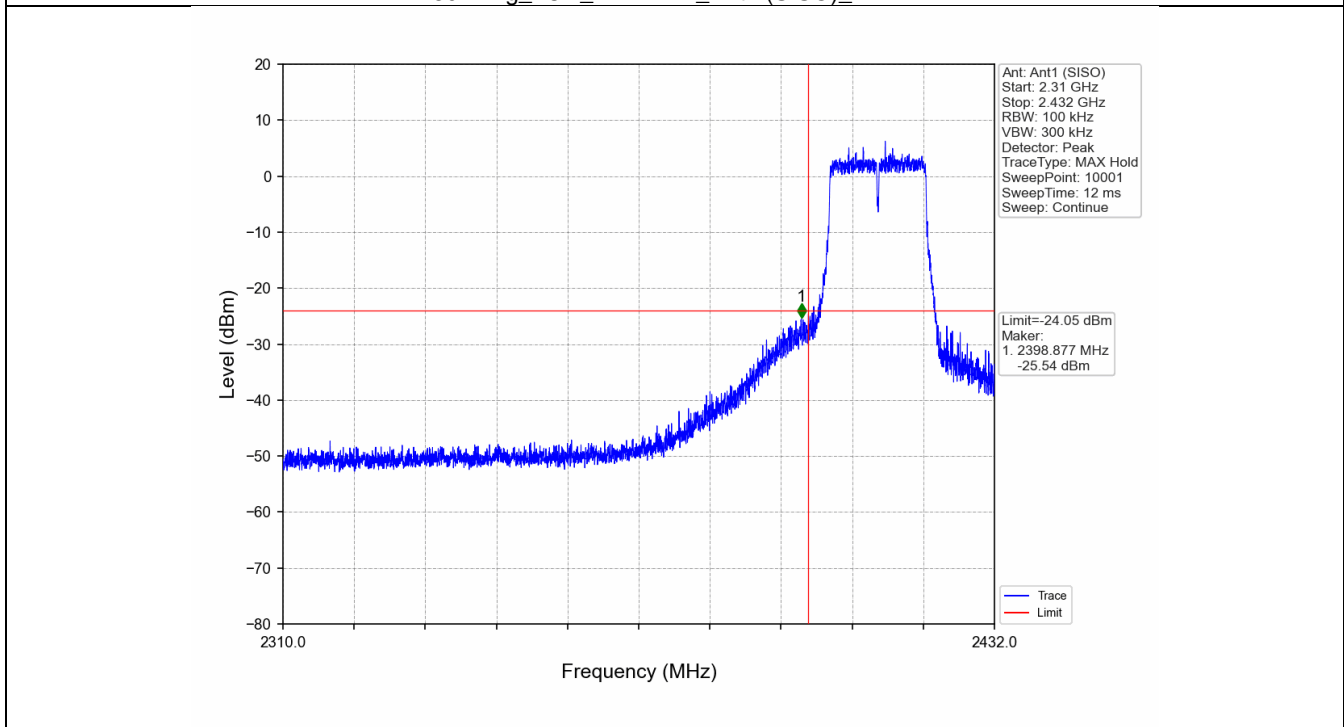


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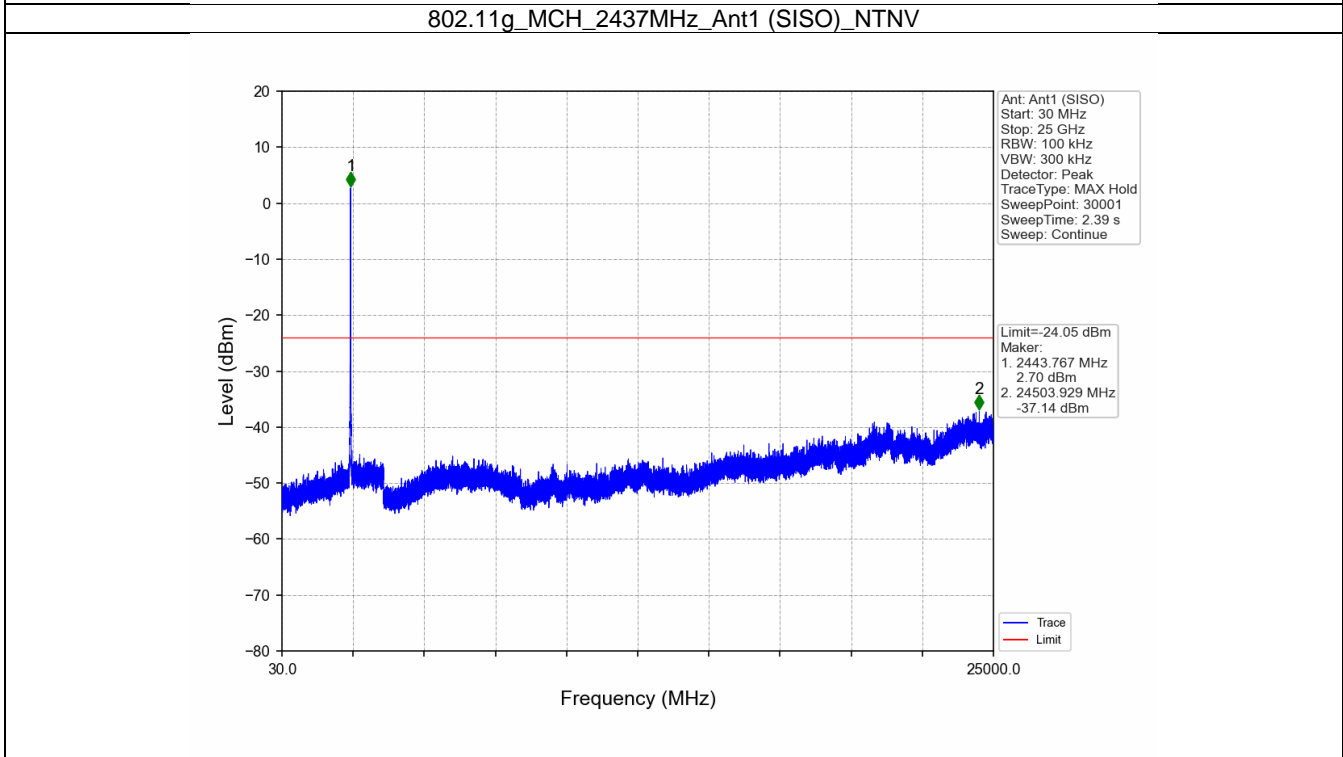
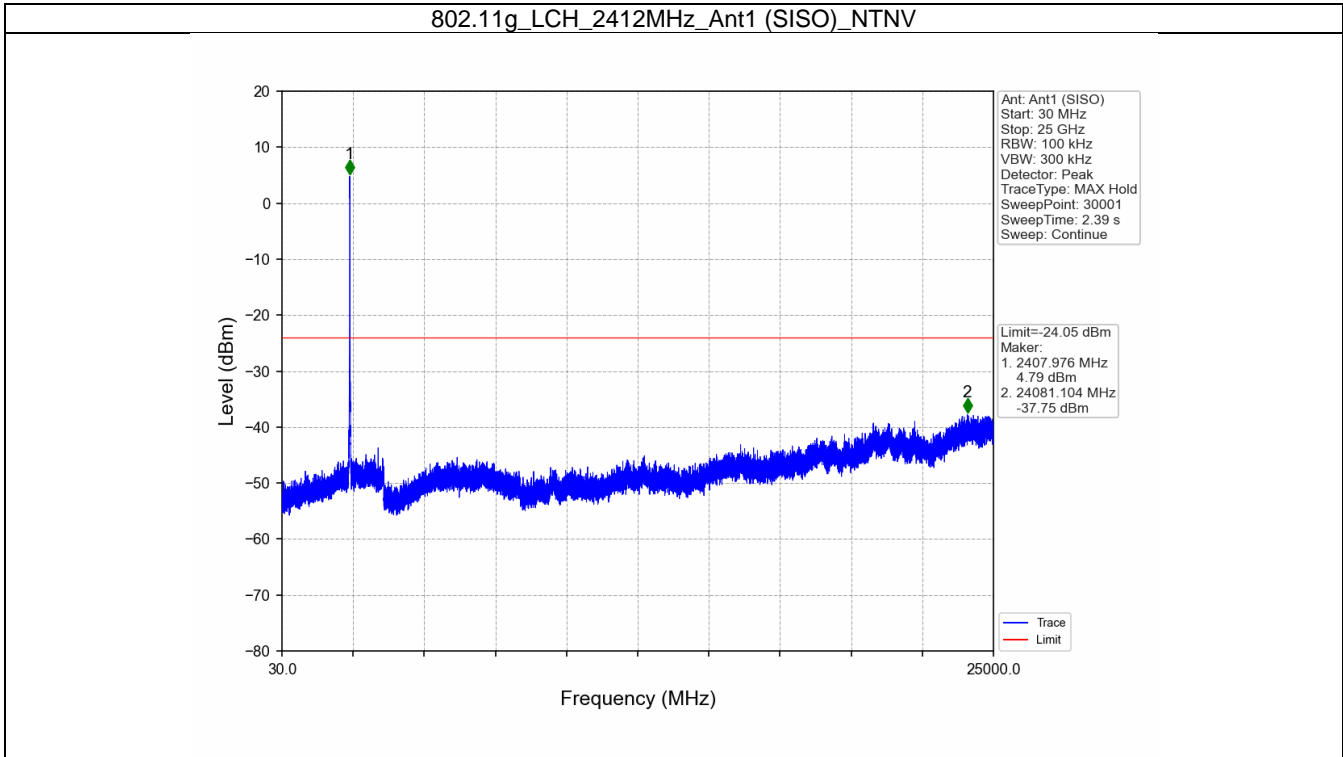


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



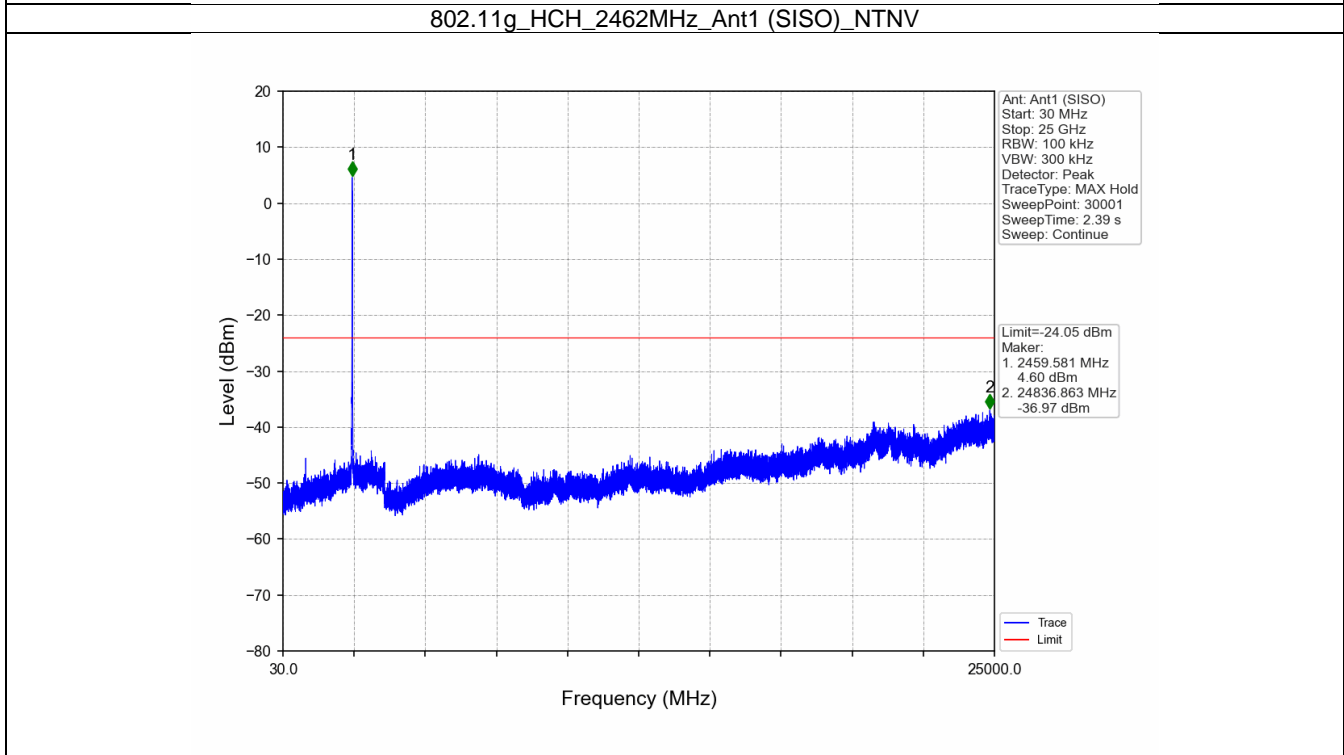
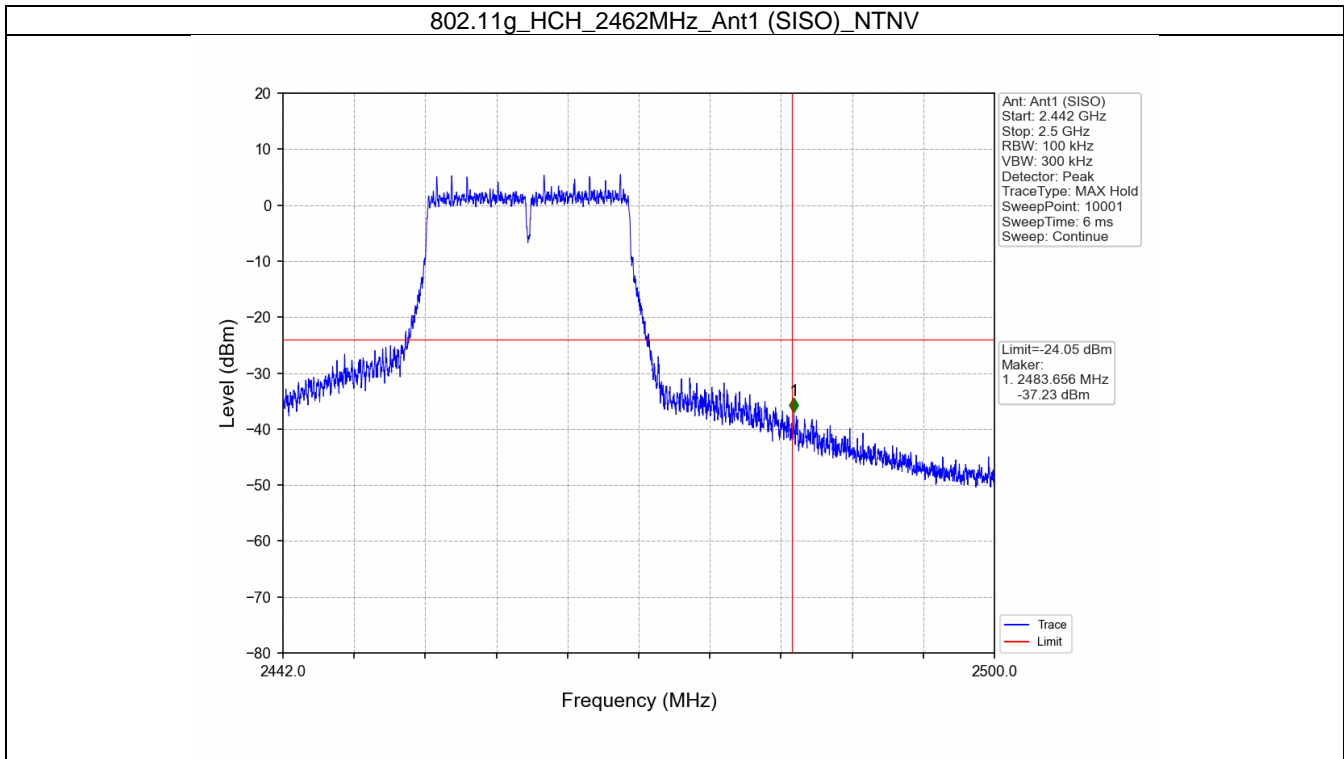
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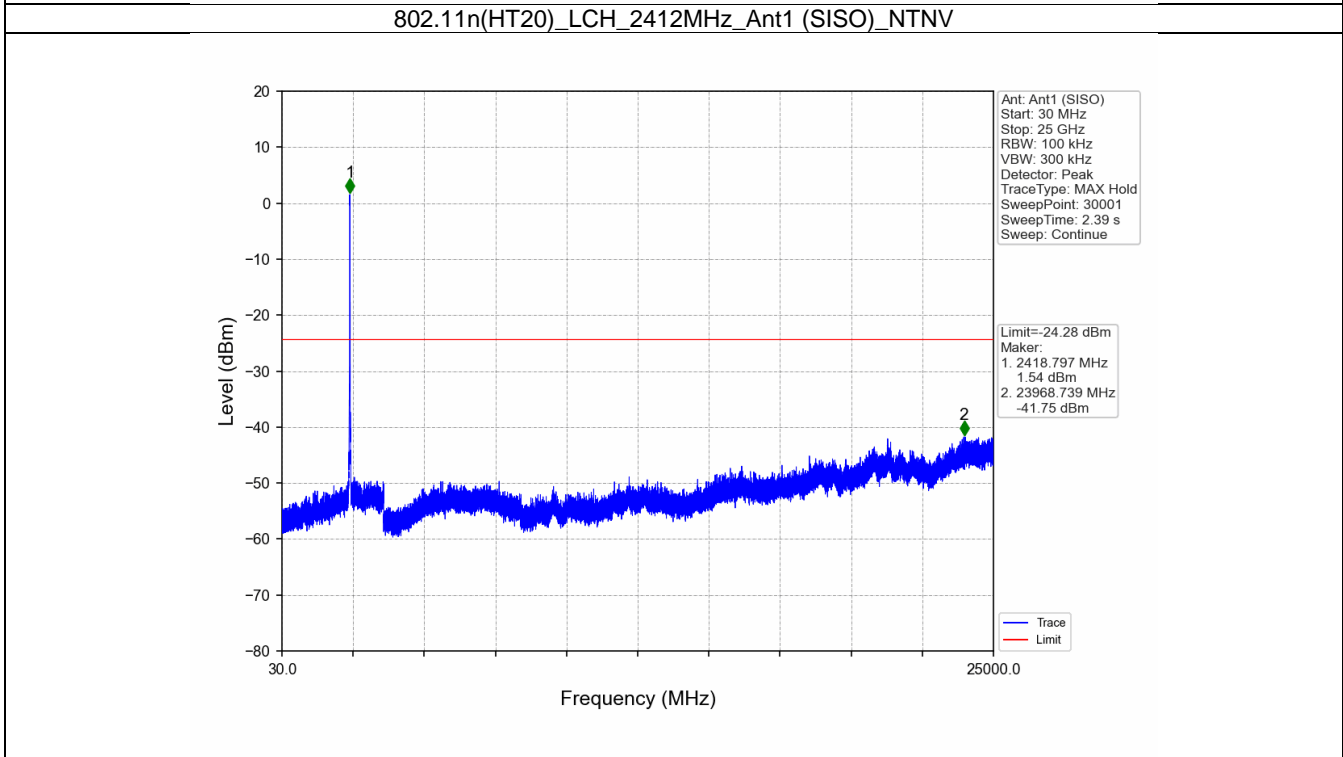
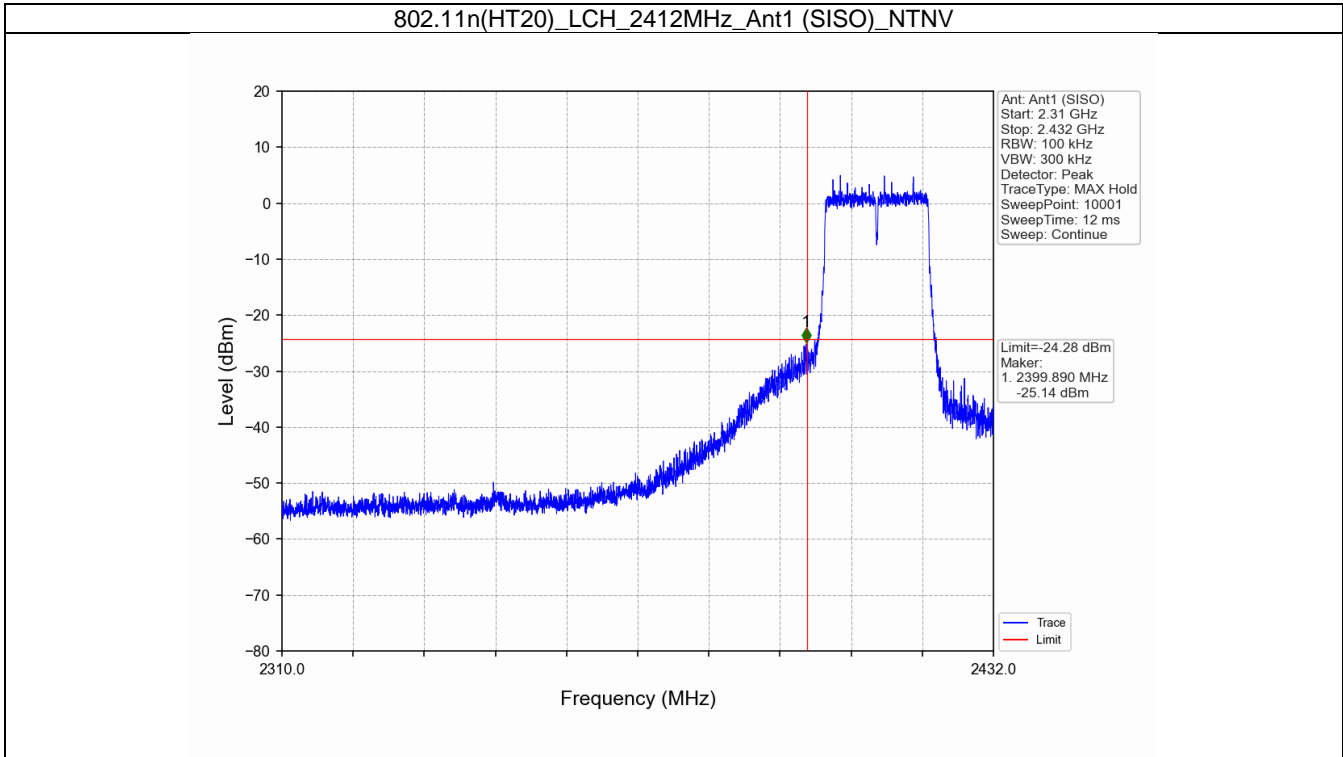
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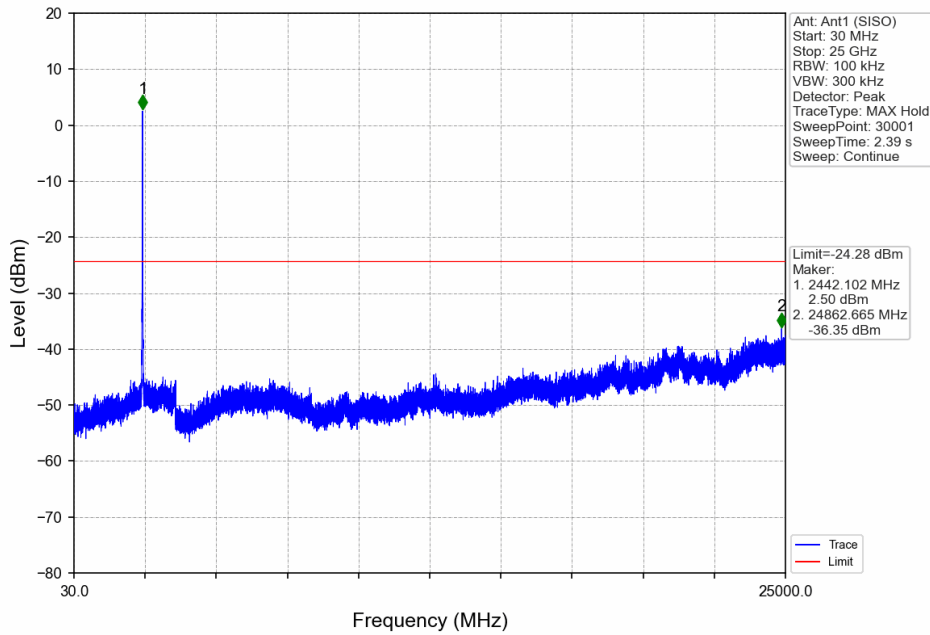
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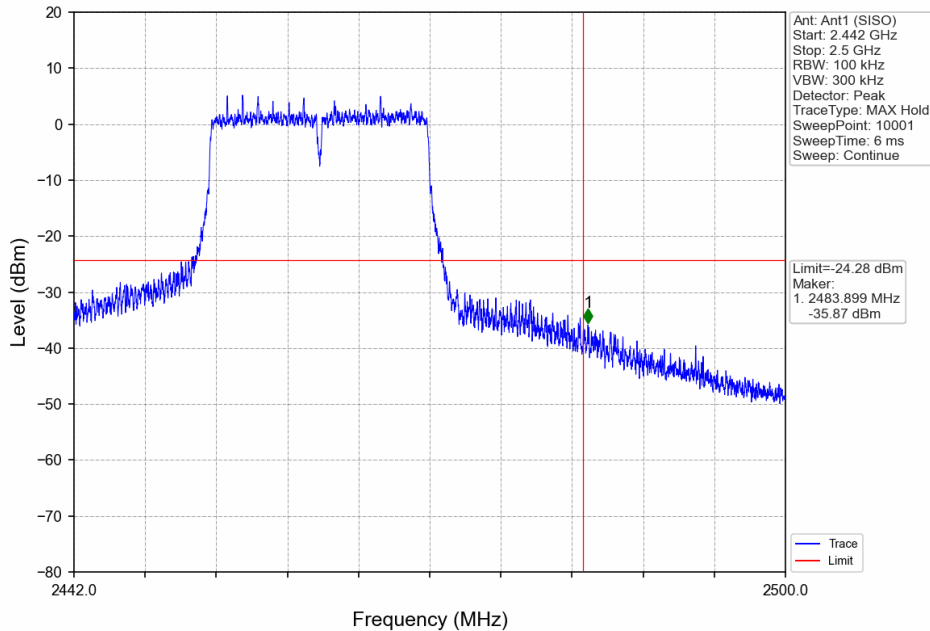
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

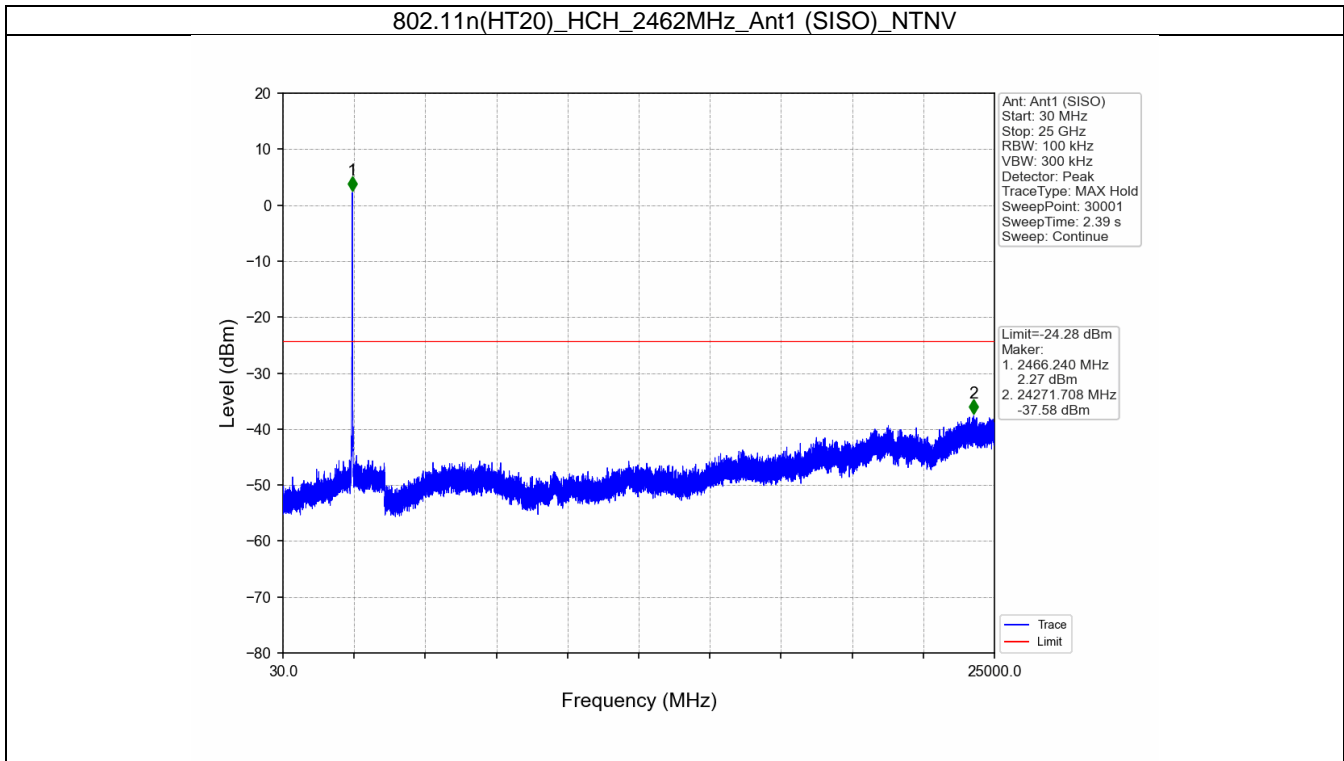


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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