



Appendix A for SHEM210800888201

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	0.938	1.058	88.66	0.52	7.36
		2437	0.938	1.085	86.45	0.63	9.61
		2462	0.938	1.094	85.74	0.67	10.27
802.11g	SISO	2412	1.394	1.574	88.56	0.53	7.70
		2437	1.393	1.538	90.57	0.43	5.00
		2462	1.395	1.548	90.12	0.45	6.76
802.11n (HT20)	MIMO	2412	1.306	1.478	88.36	0.54	8.24
		2437	1.306	1.433	91.14	0.40	4.19
		2462	1.306	1.469	88.90	0.51	7.71



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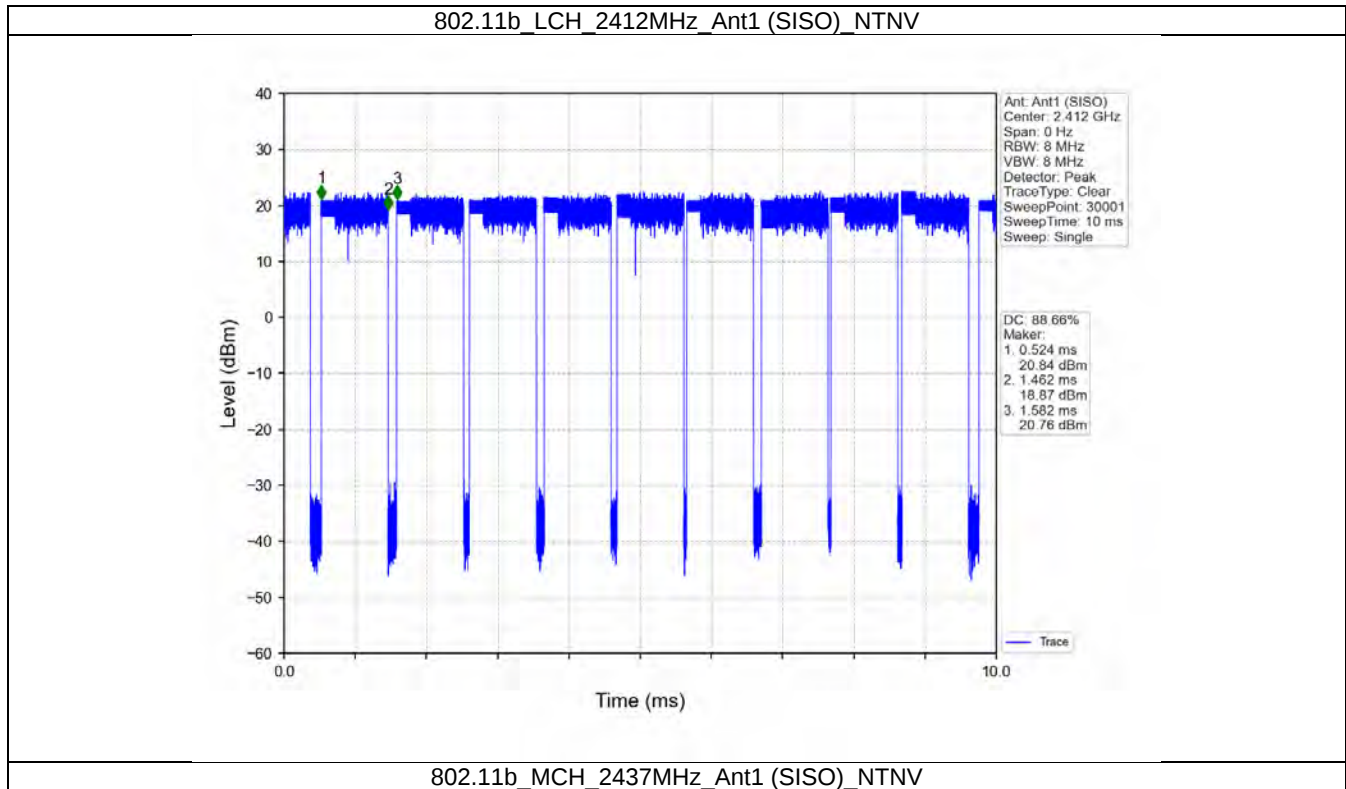
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1.1.2 Test Graph



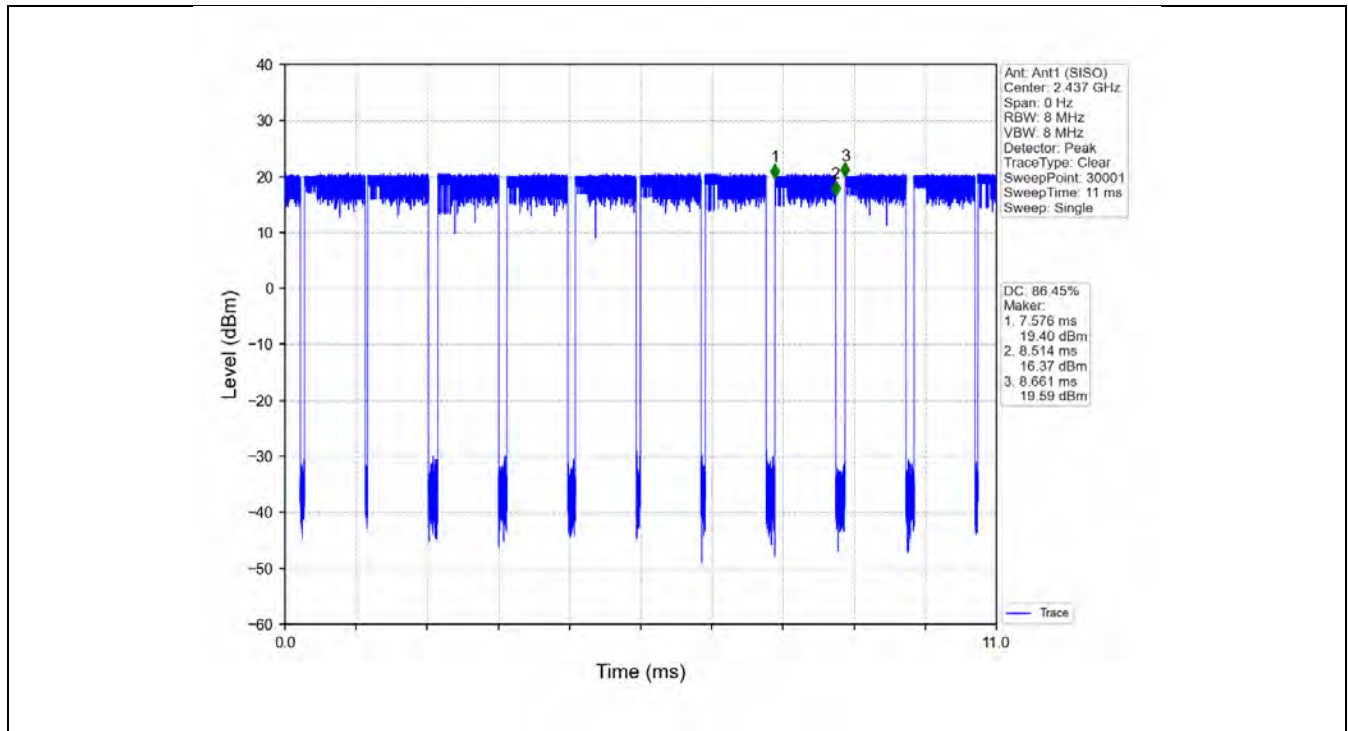
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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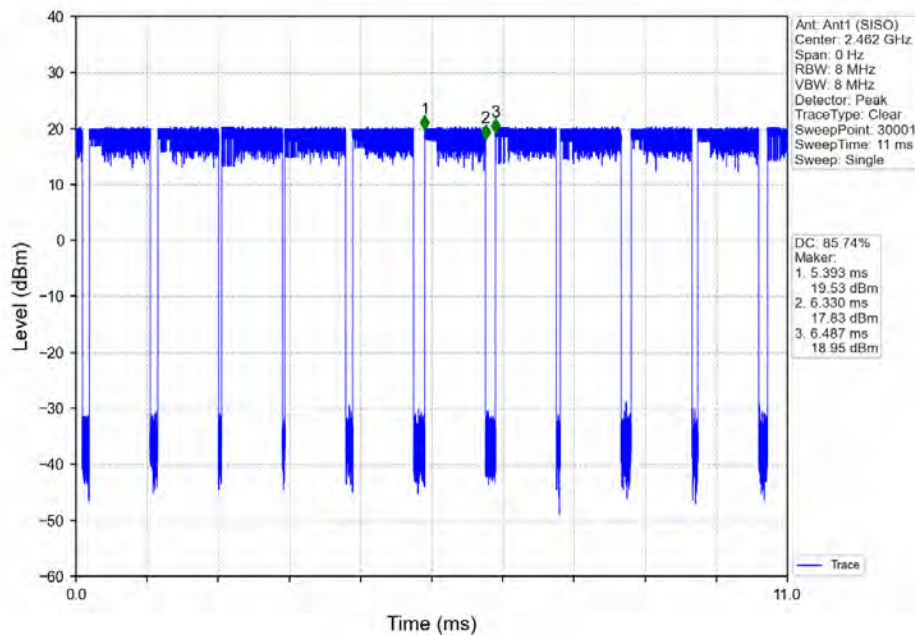
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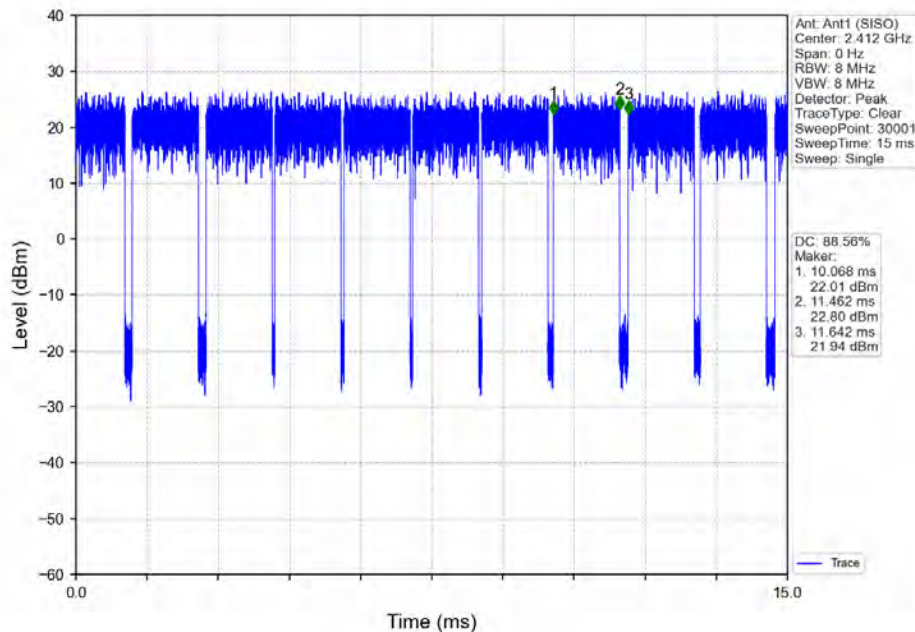
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802.11g LCH_2412MHz_Ant1 (SISO)_NTNV



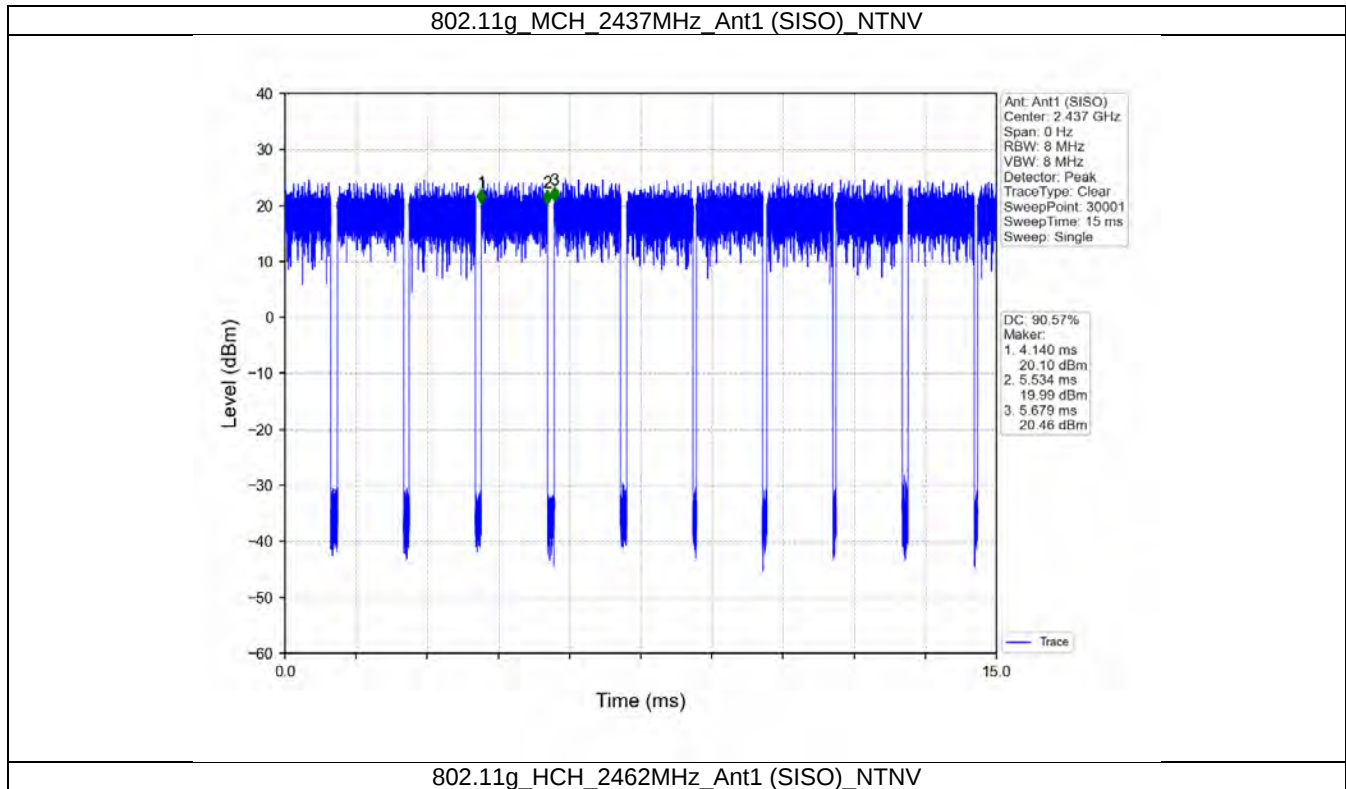
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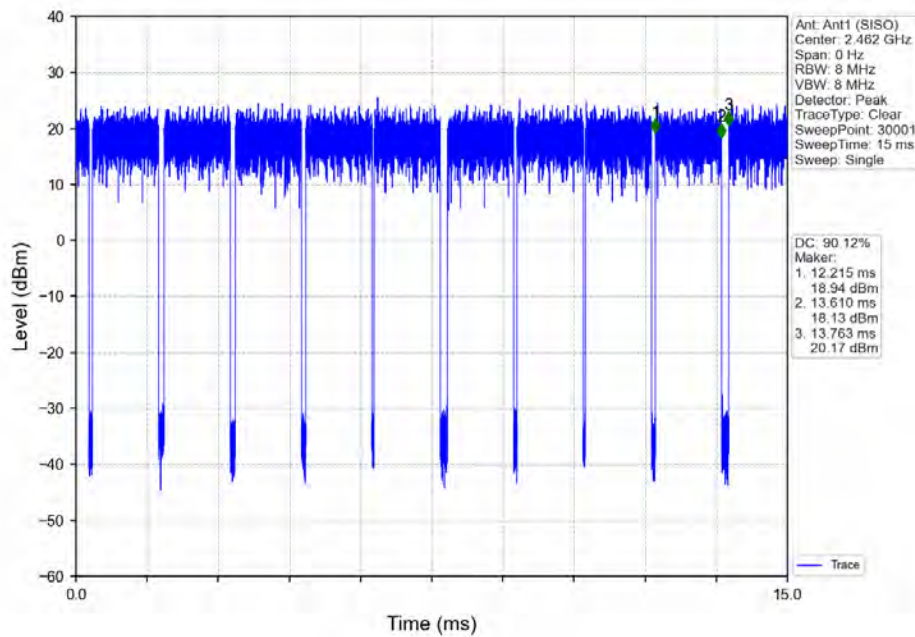
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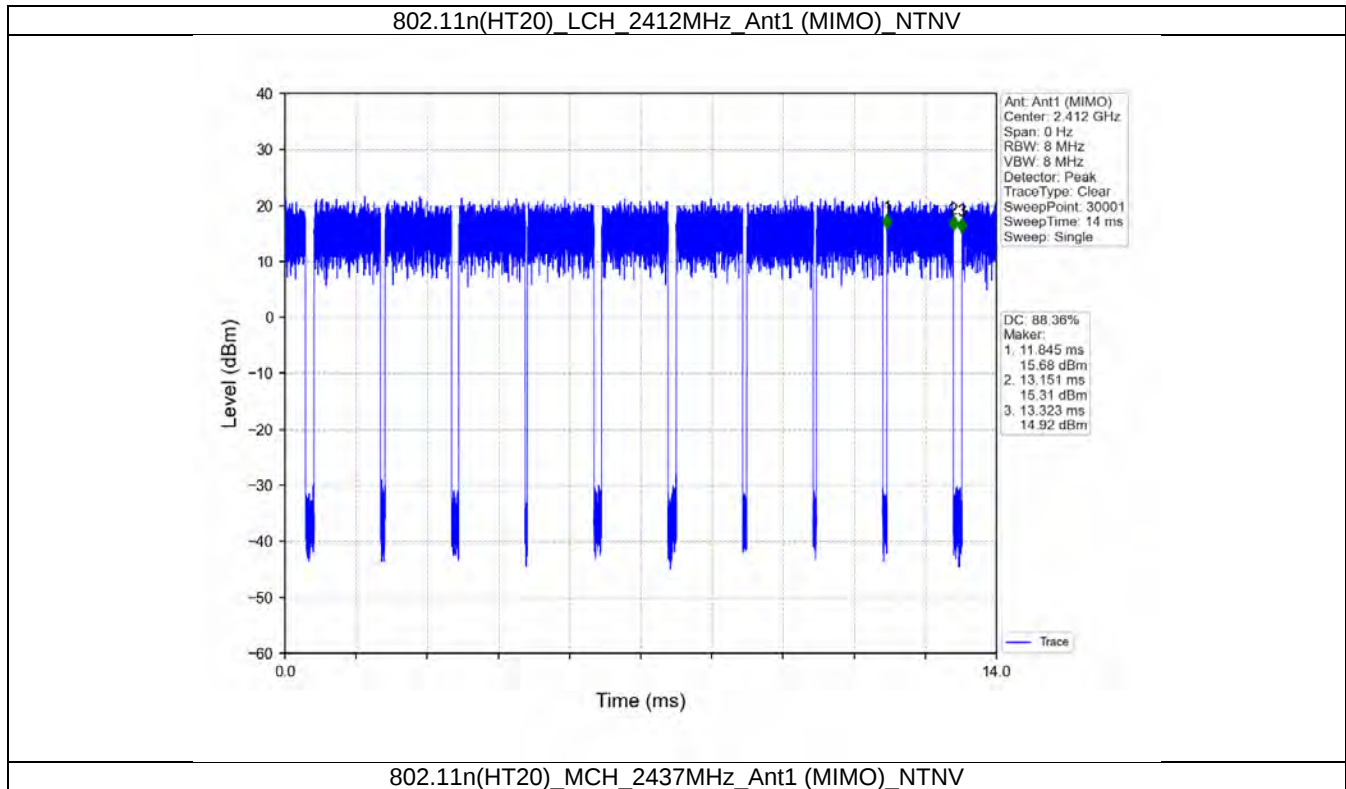
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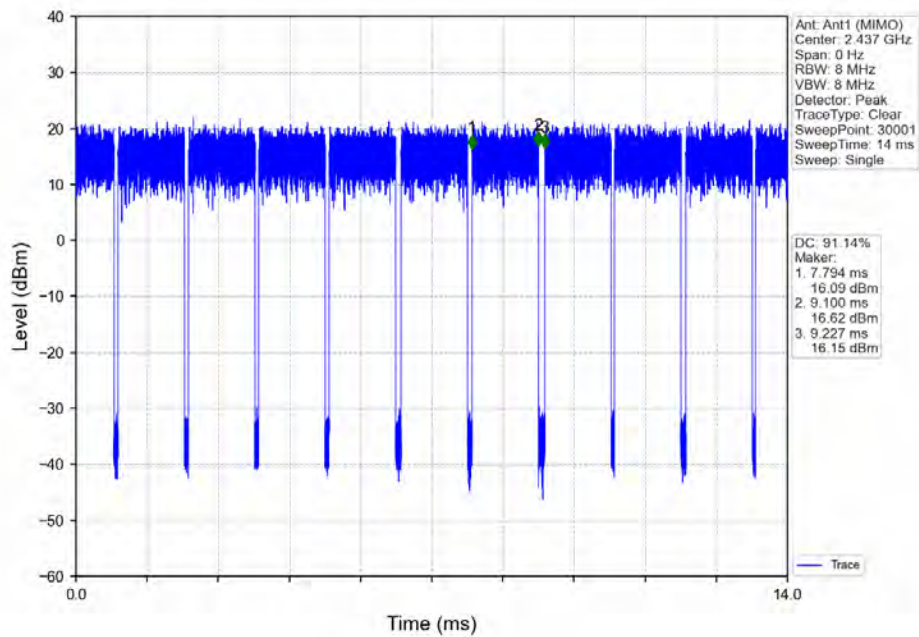
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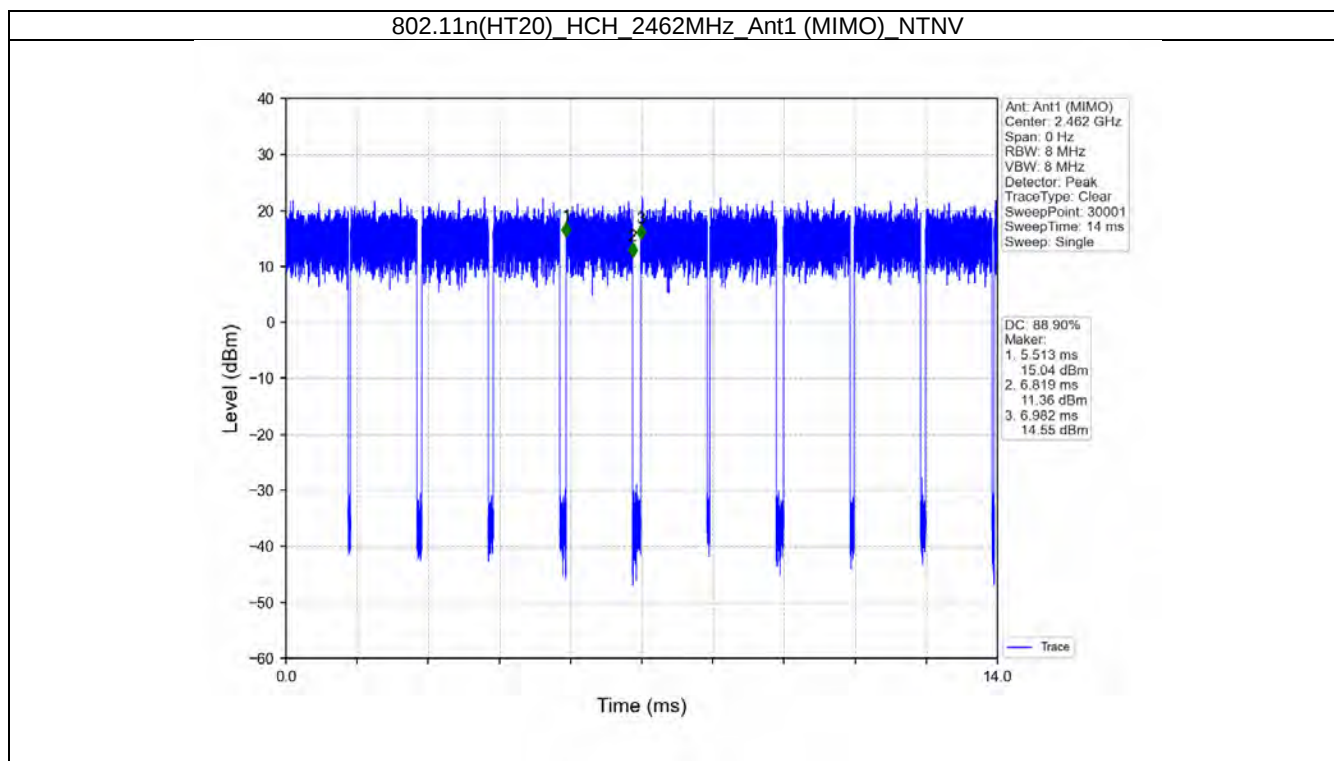
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2. Bandwidth

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	14.023	Pass
			2	14.028	Pass
		2437	1	14.008	Pass
			2	14.004	Pass
		2462	1	14.023	Pass
			2	14.008	Pass
802.11g	SISO	2412	1	17.518	Pass
			2	17.547	Pass
		2437	1	17.540	Pass
			2	17.549	Pass
		2462	1	17.536	Pass
			2	17.530	Pass
802.11n	MIMO	2412	1	17.634	Pass



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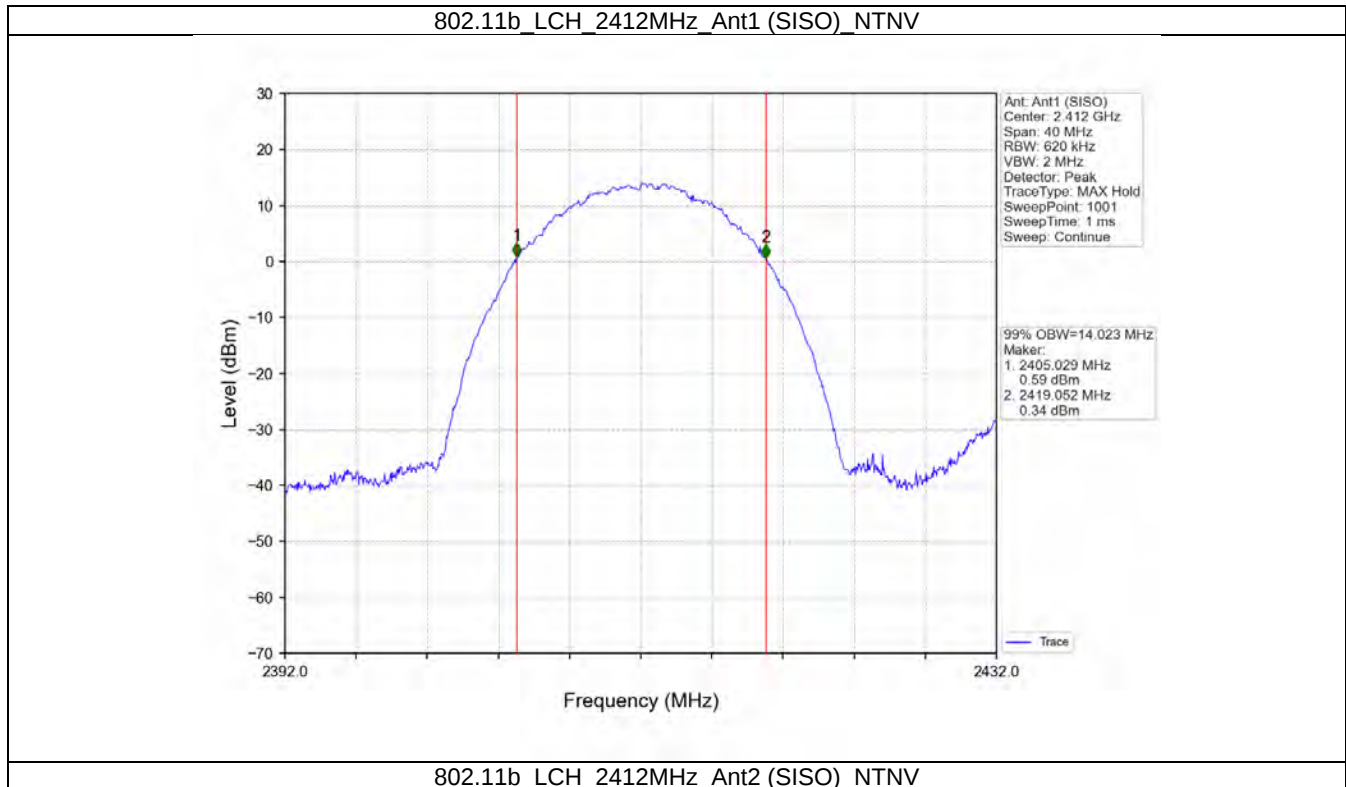
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(HT20)		2437	2	18.029	Pass
			1	17.673	Pass
			2	17.957	Pass
		2462	1	17.809	Pass
			2	18.019	Pass

2.1.2 Test Graph



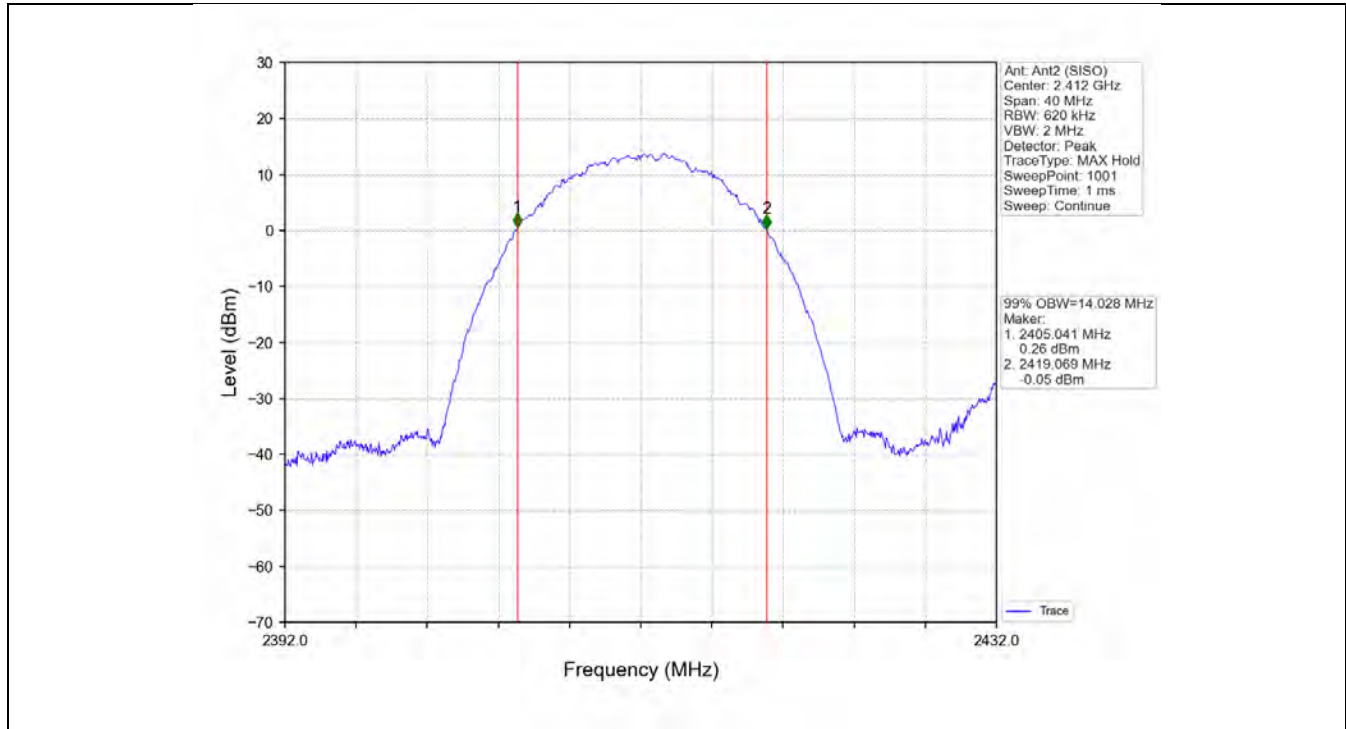
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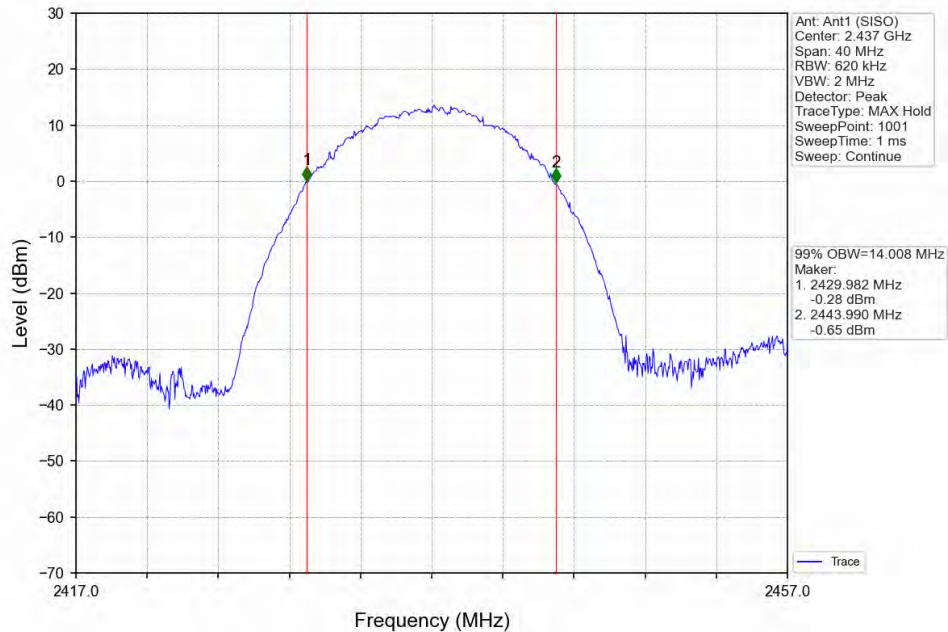
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



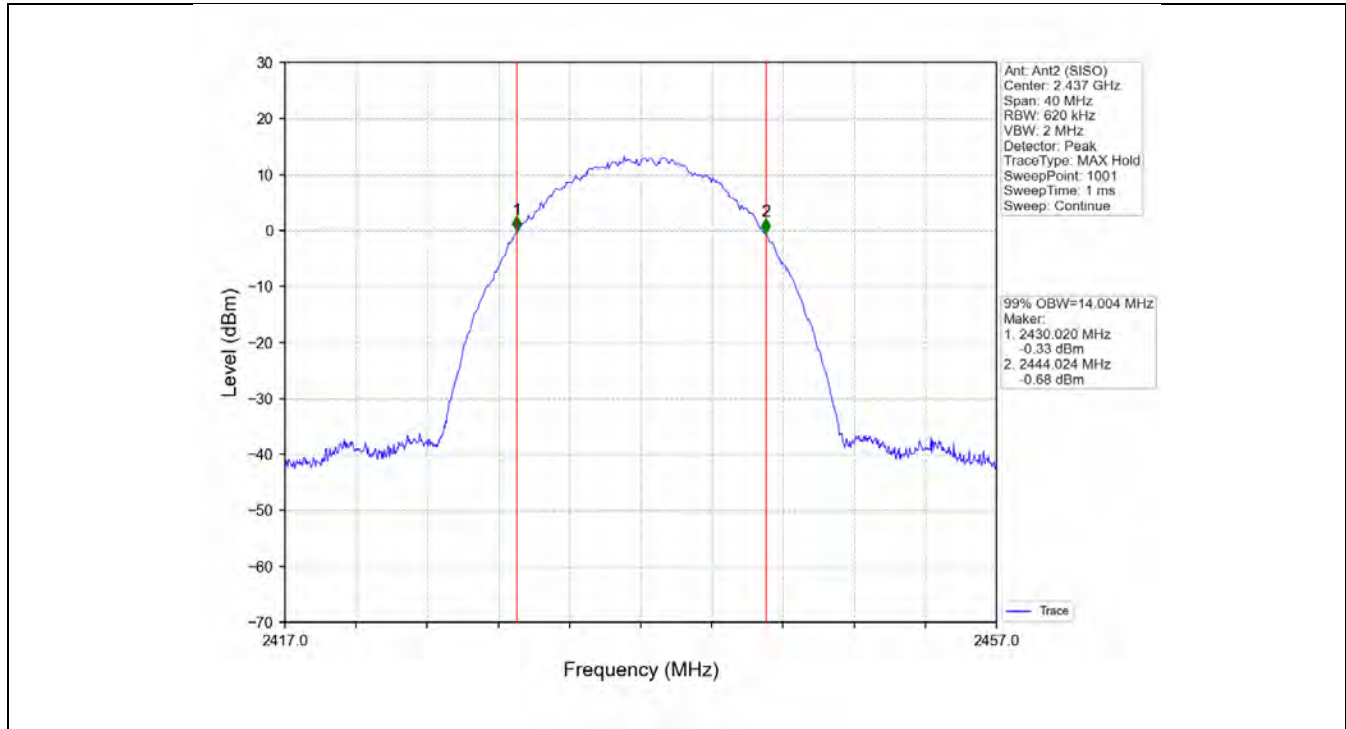
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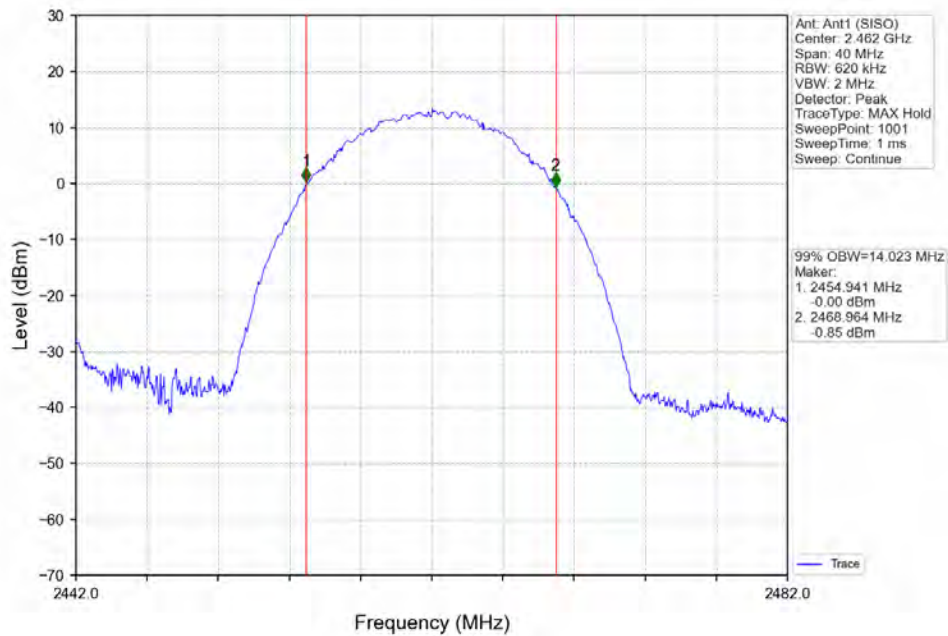
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



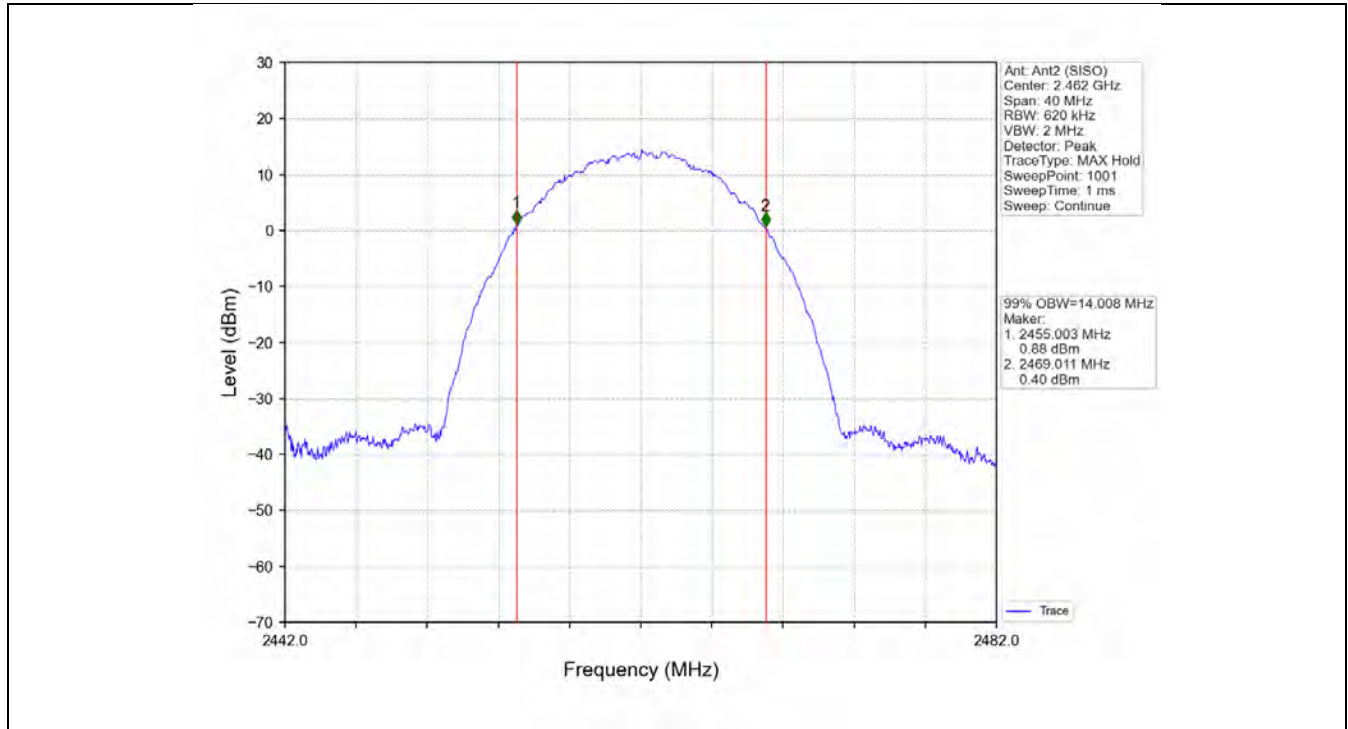
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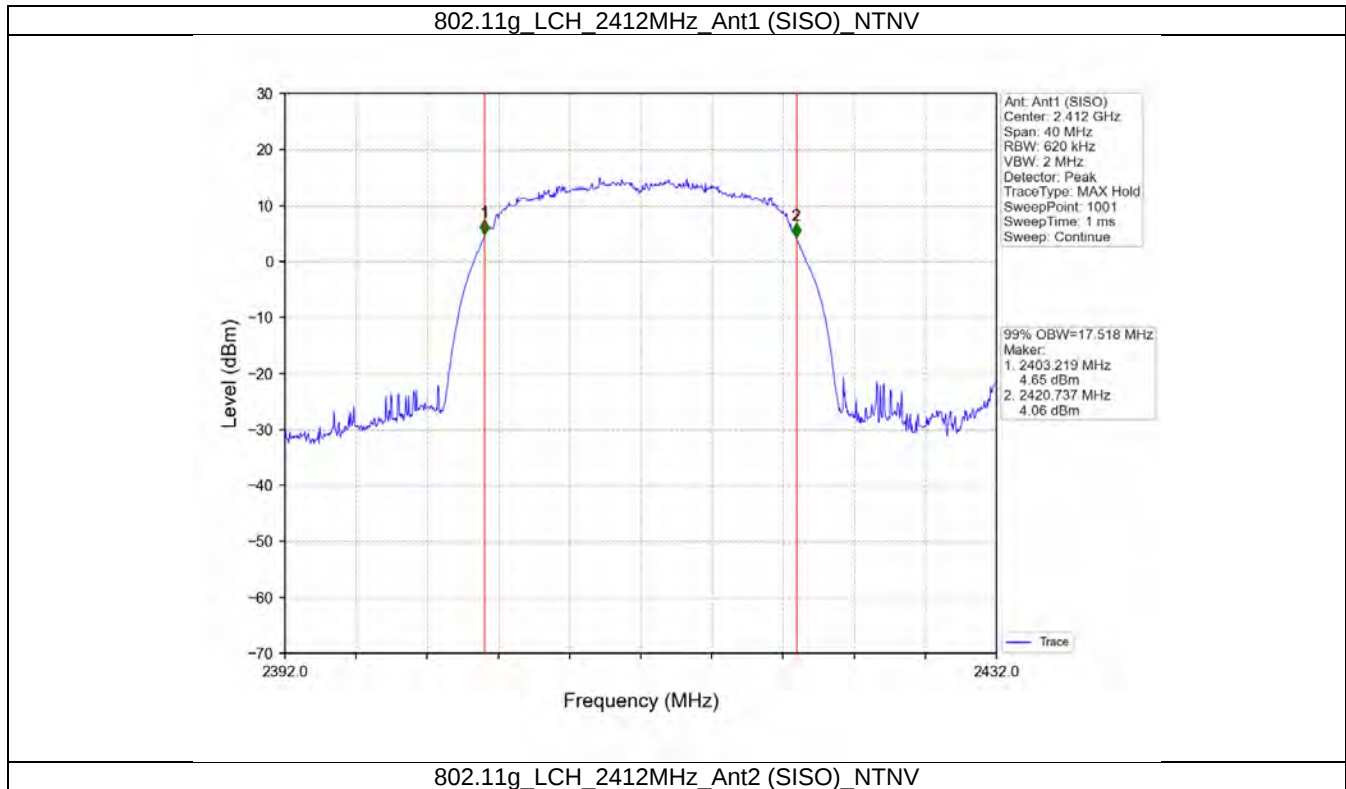
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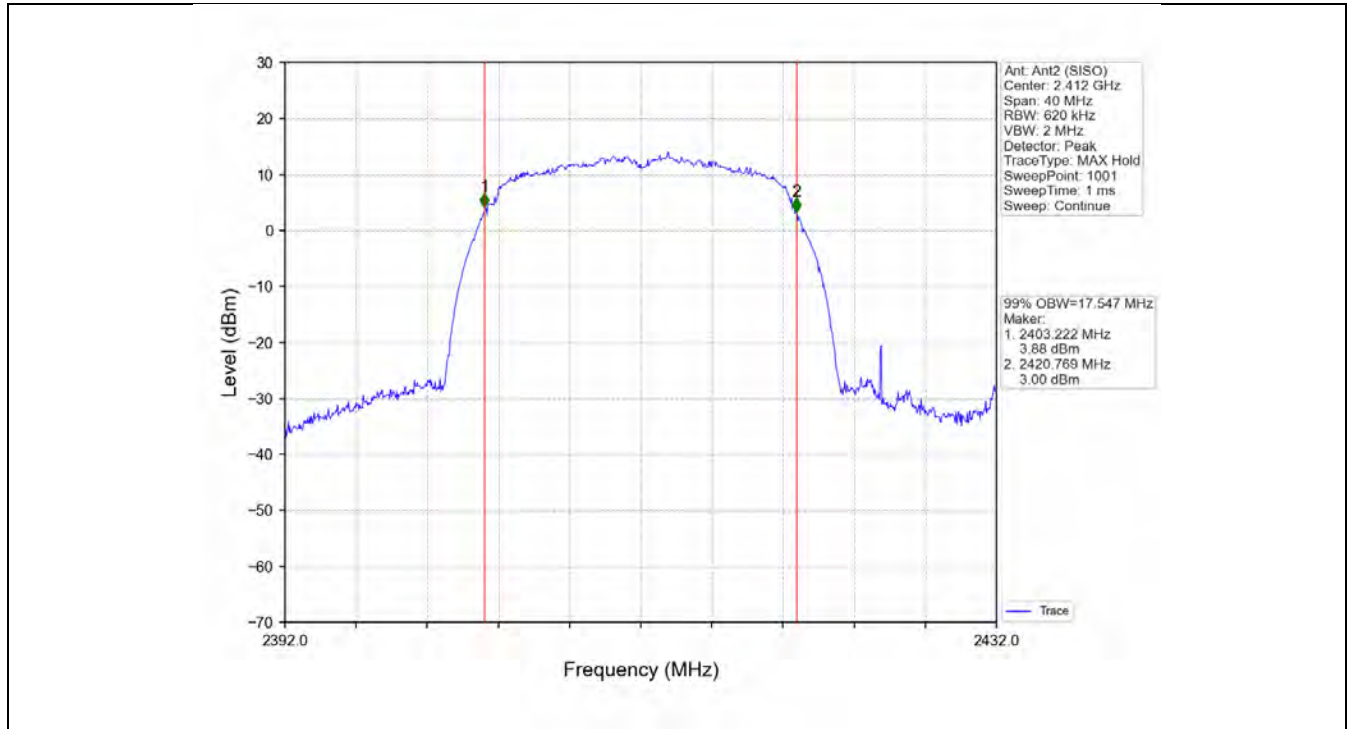
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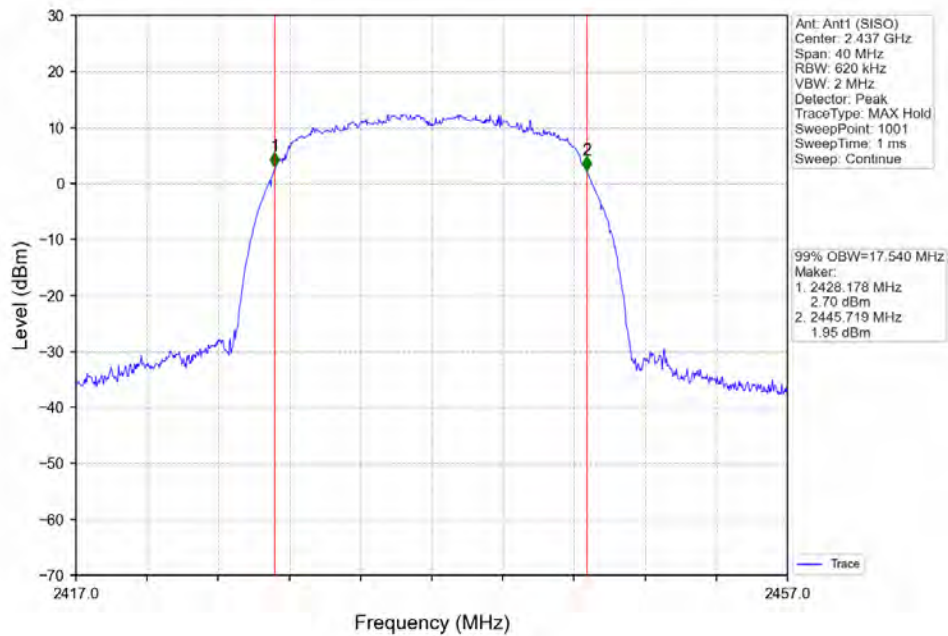
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



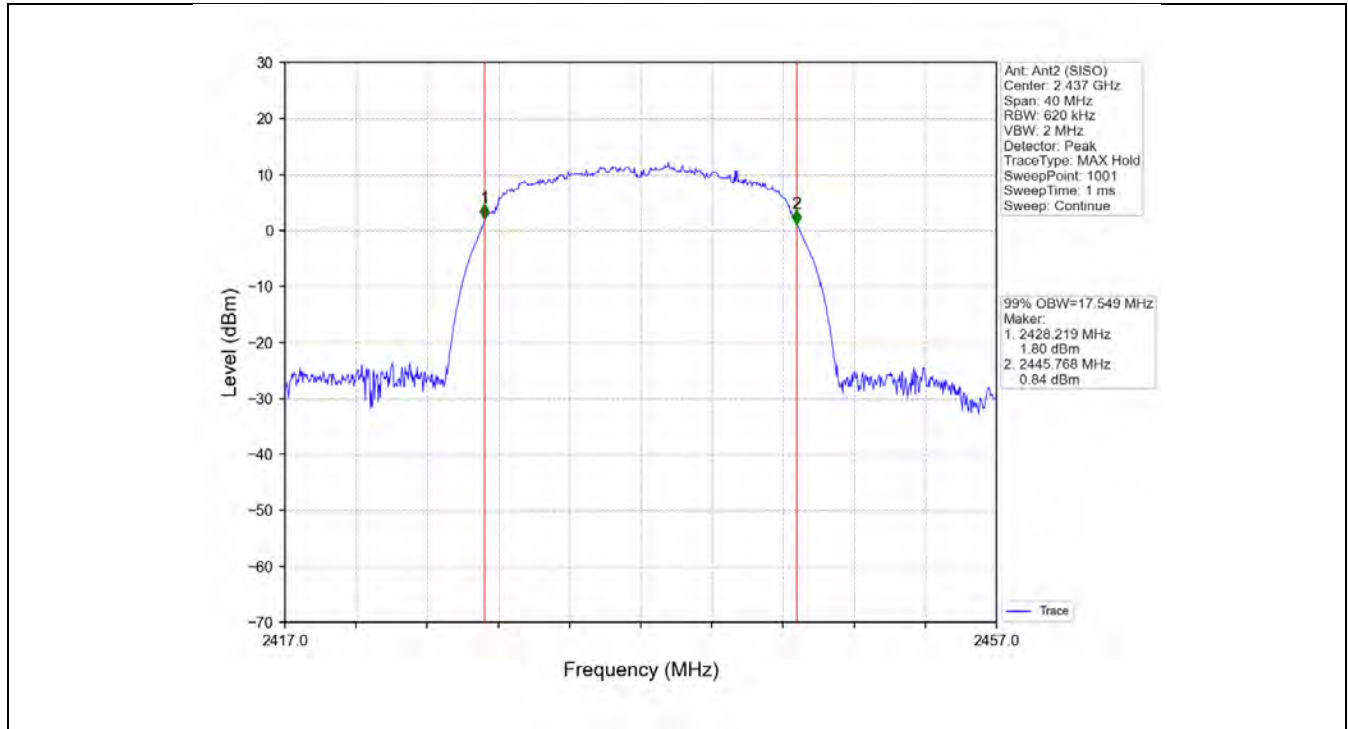
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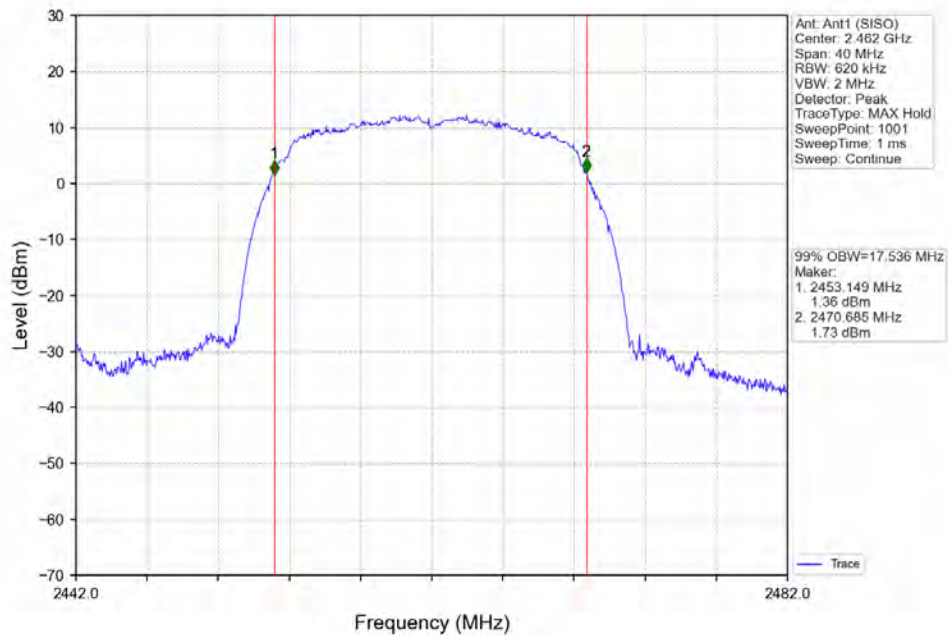
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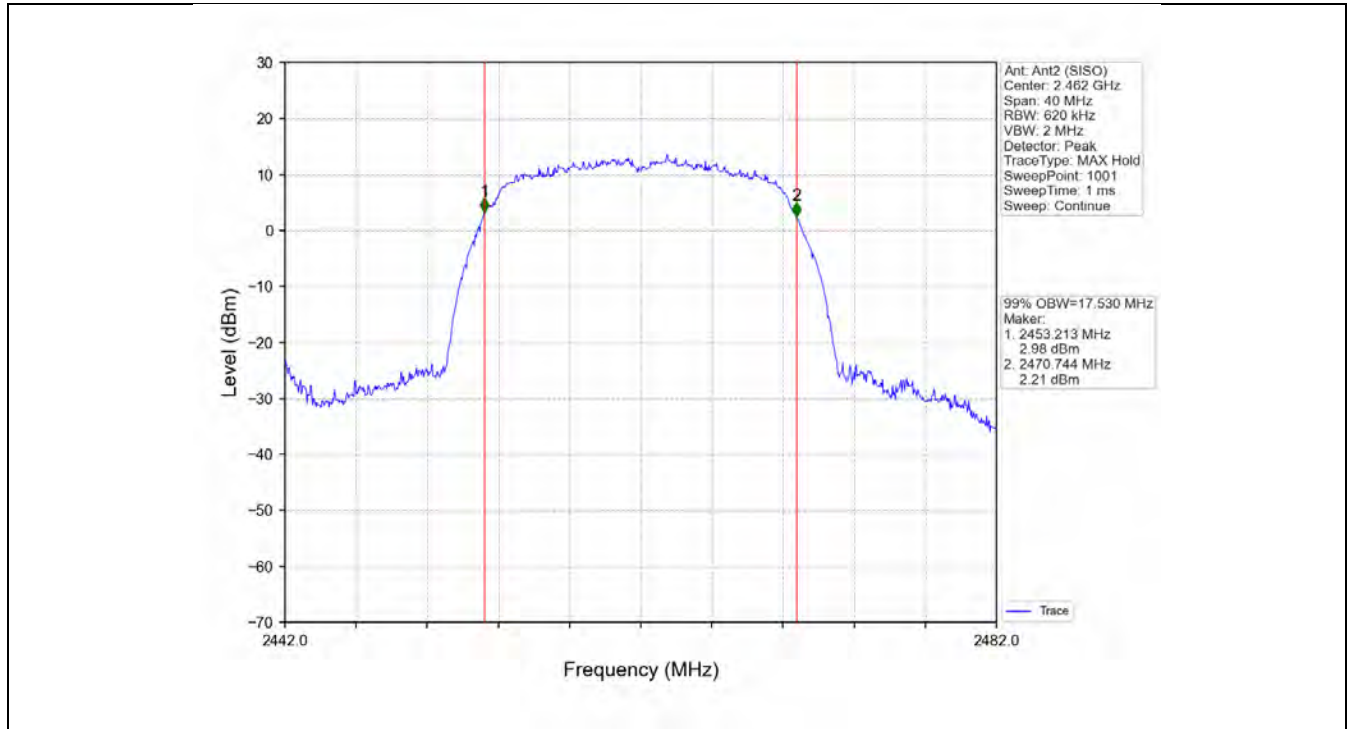
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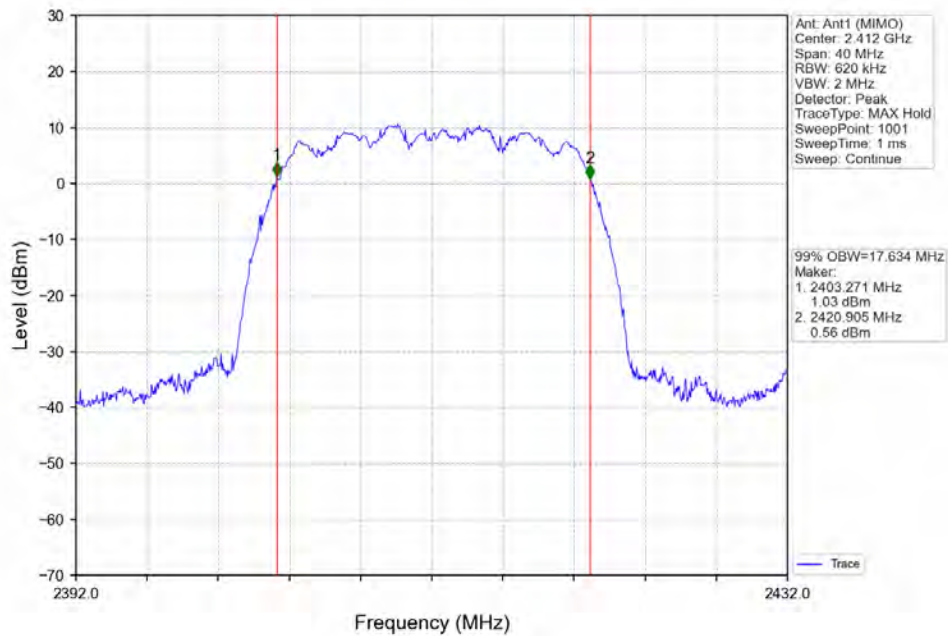
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



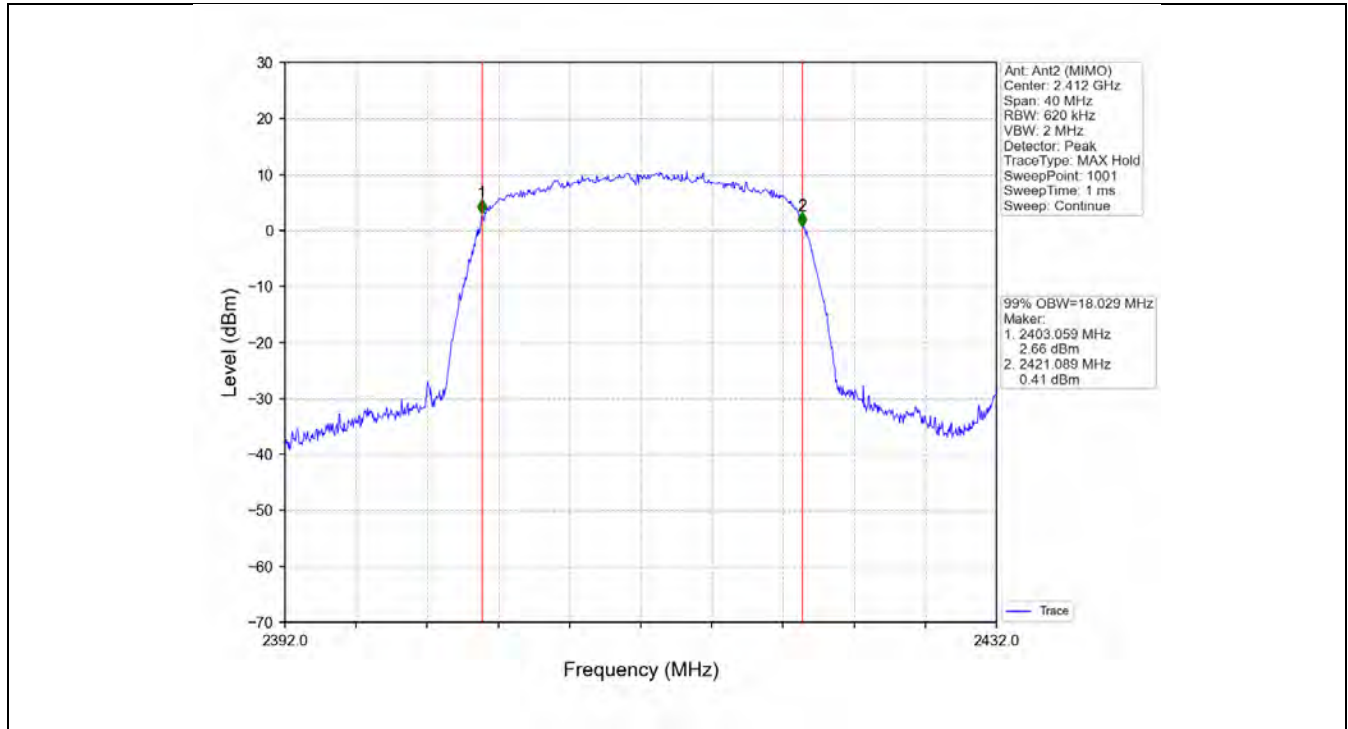
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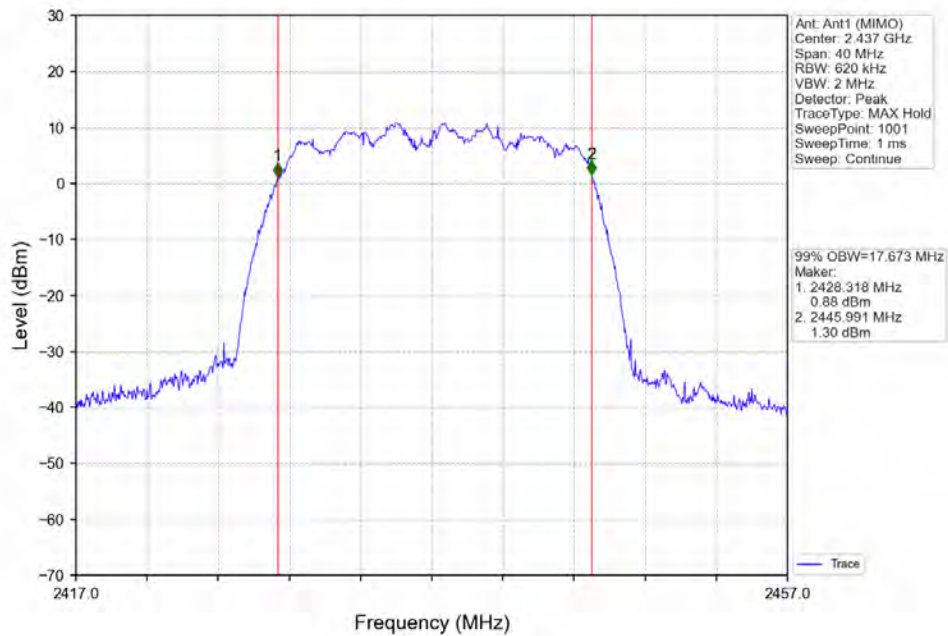
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802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



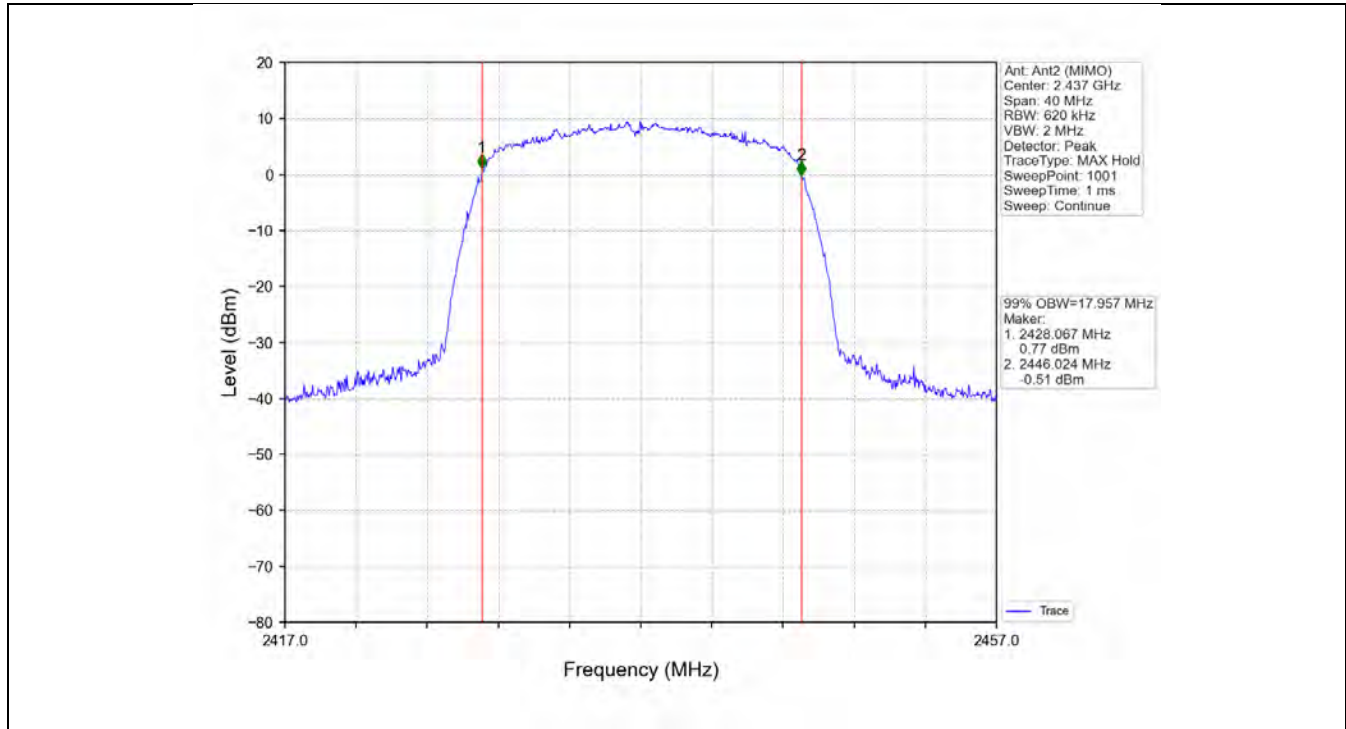
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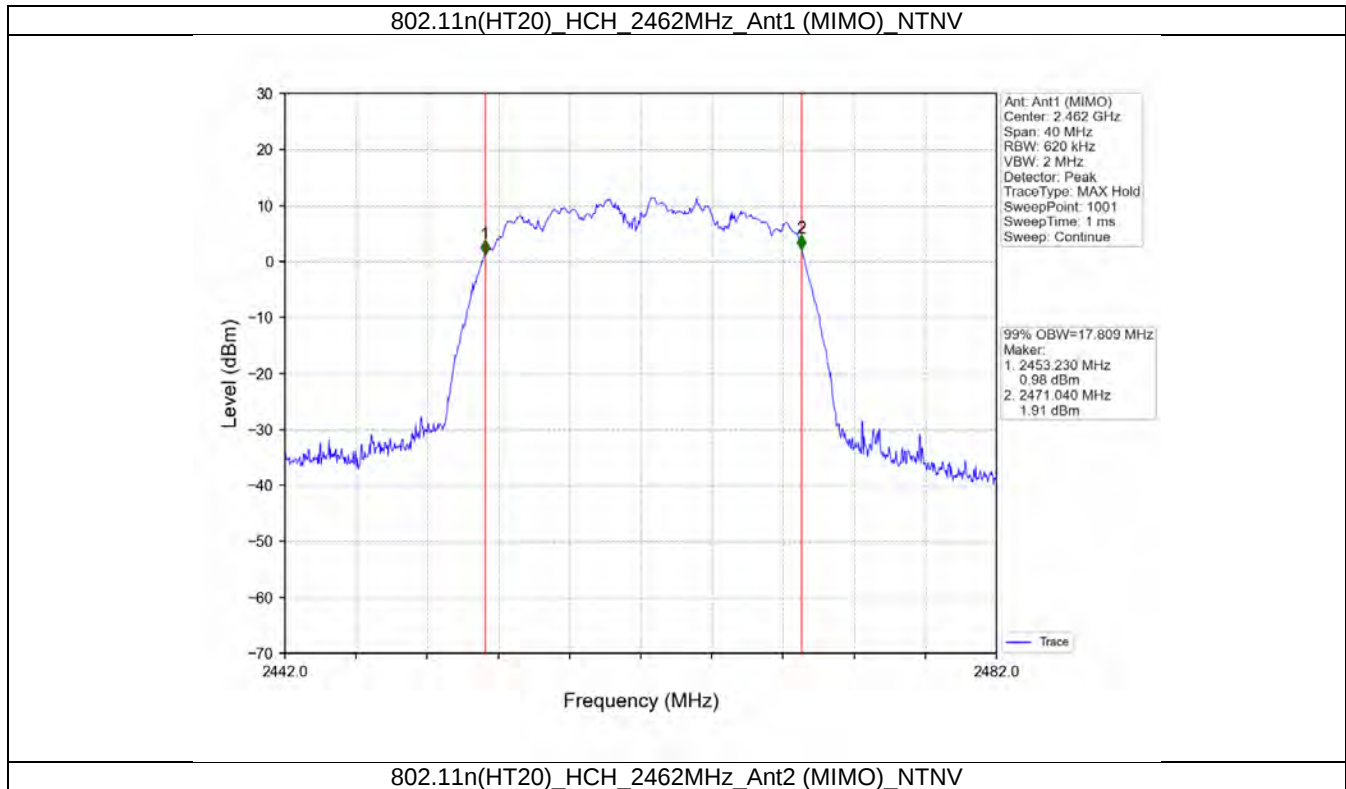
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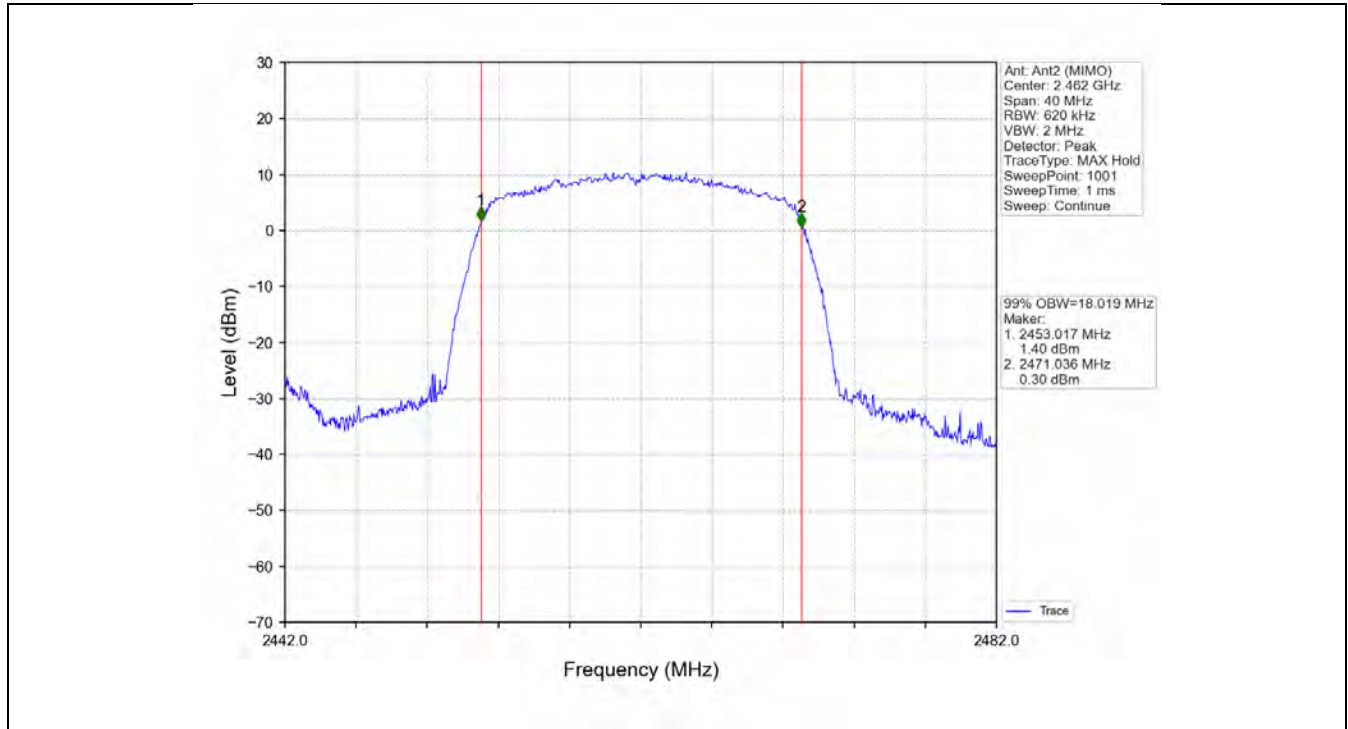
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.061	≥ 0.5	Pass
			2	9.071	≥ 0.5	Pass
		2437	1	9.085	≥ 0.5	Pass
			2	9.065	≥ 0.5	Pass
		2462	1	9.062	≥ 0.5	Pass
			2	9.049	≥ 0.5	Pass
802.11g	SISO	2412	1	15.142	≥ 0.5	Pass
			2	15.099	≥ 0.5	Pass
		2437	1	15.145	≥ 0.5	Pass
			2	15.131	≥ 0.5	Pass
		2462	1	15.141	≥ 0.5	Pass
			2	15.142	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	13.858	≥ 0.5	Pass
			2	15.135	≥ 0.5	Pass
		2437	1	11.451	≥ 0.5	Pass
			2	15.143	≥ 0.5	Pass
		2462	1	12.595	≥ 0.5	Pass
			2	15.141	≥ 0.5	Pass

2.2.2 Test Graph

802.11b LCH 2412MHz_Ant1 (SISO)_NTNV



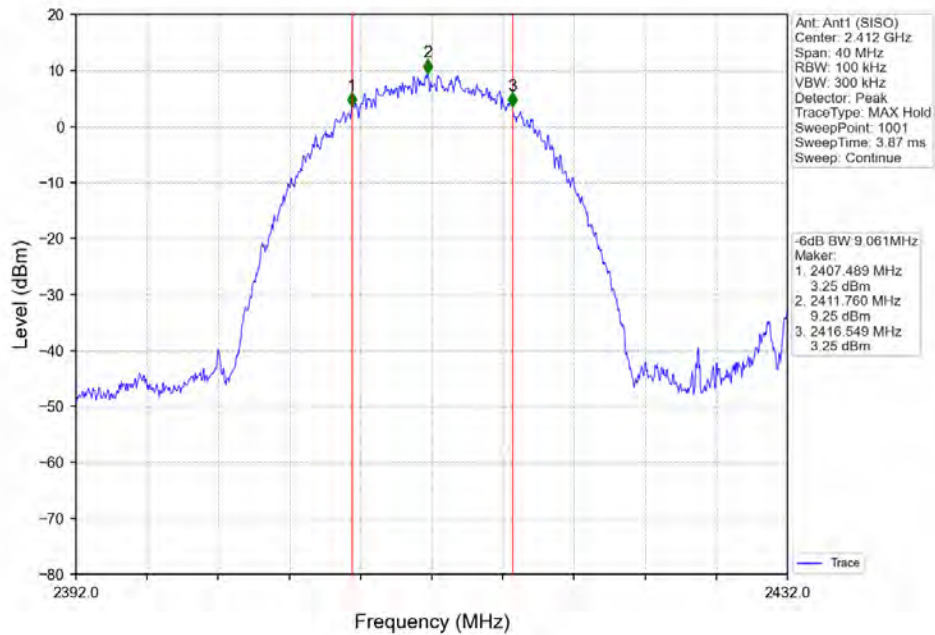
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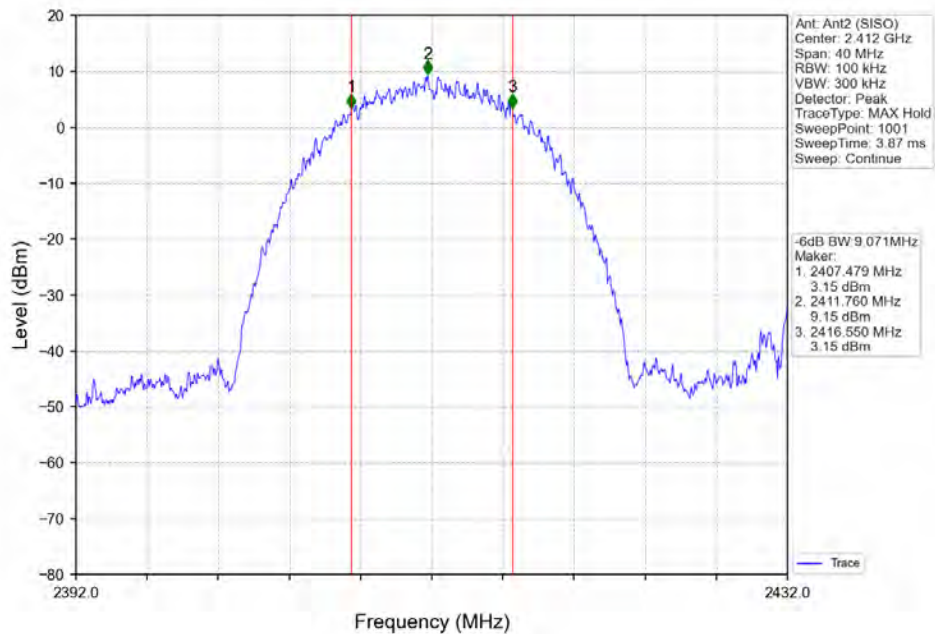
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802.11b LCH_2412MHz_Ant2 (SISO)_NTNV



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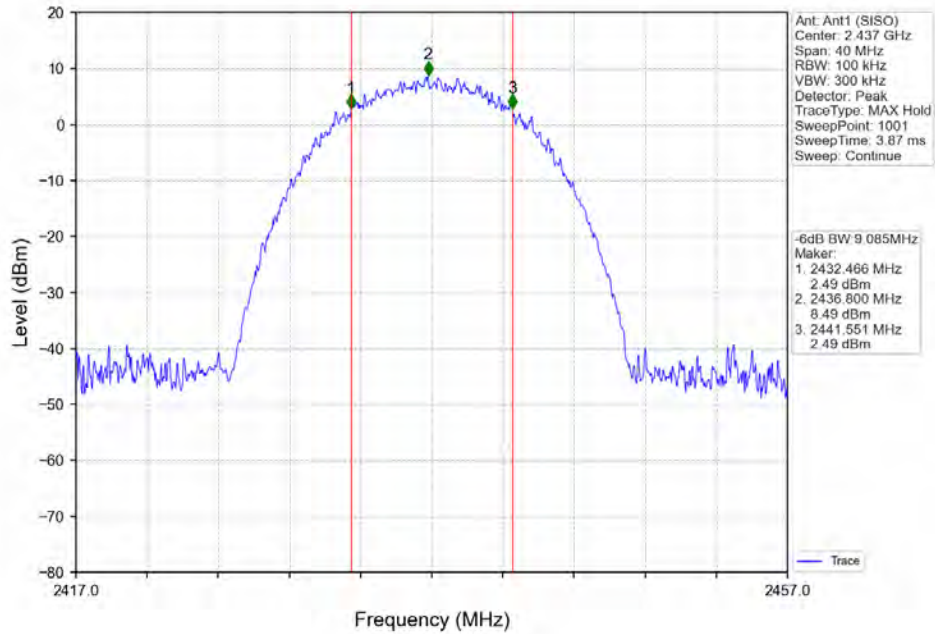
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



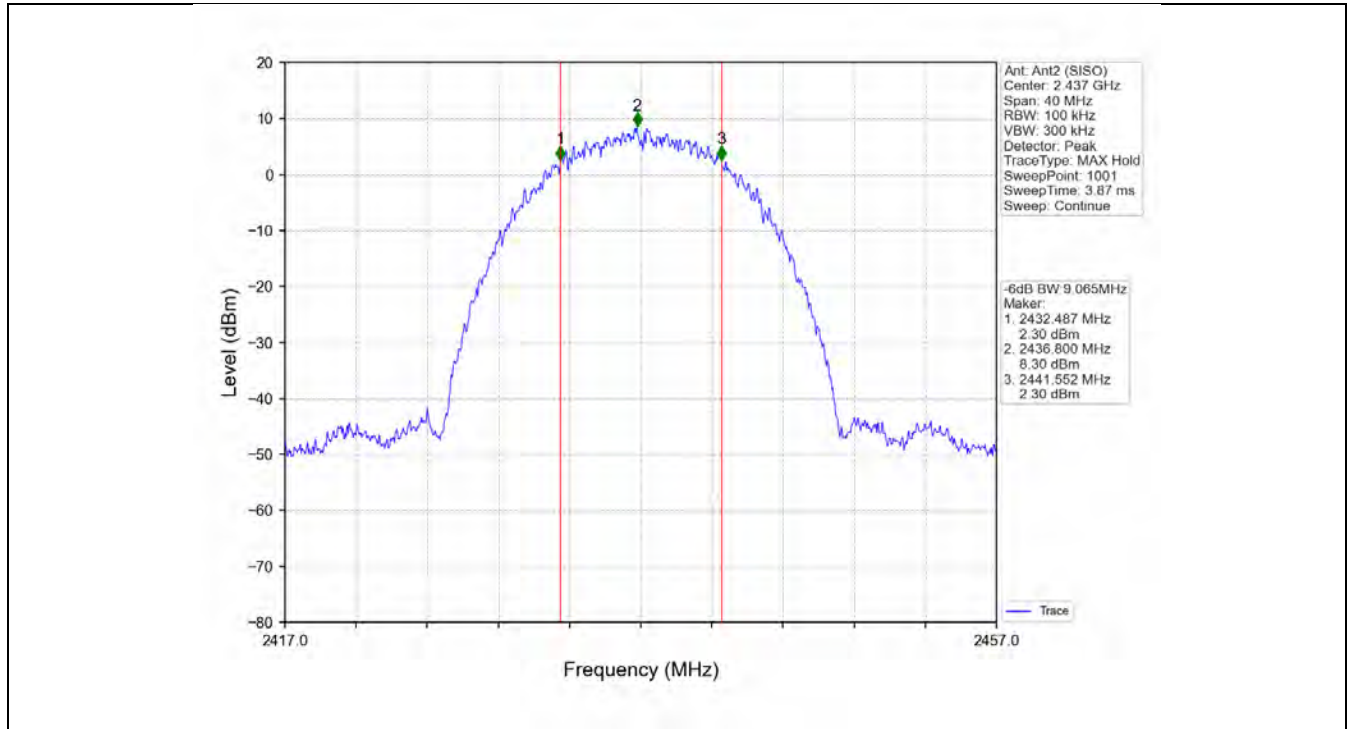
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



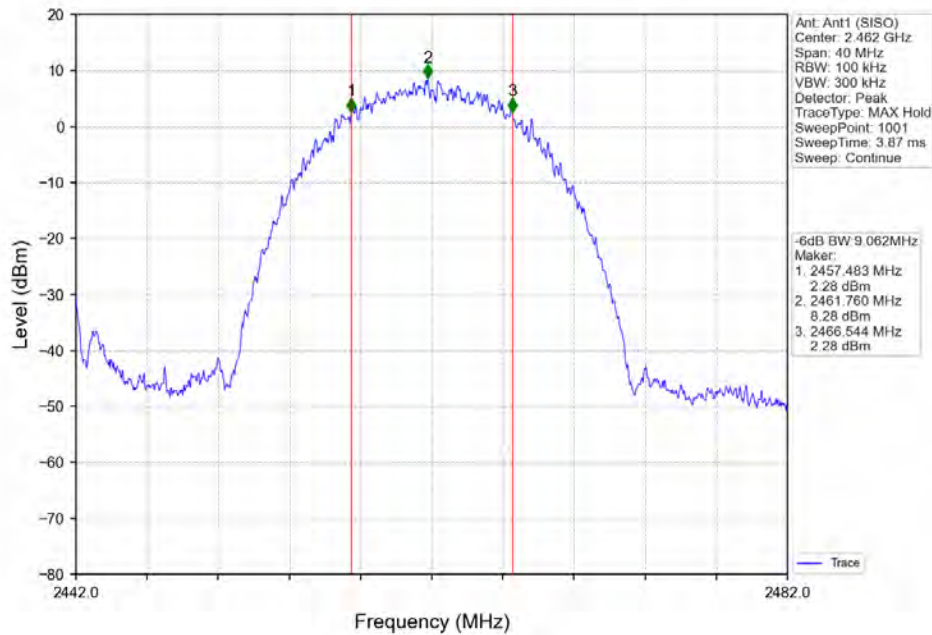
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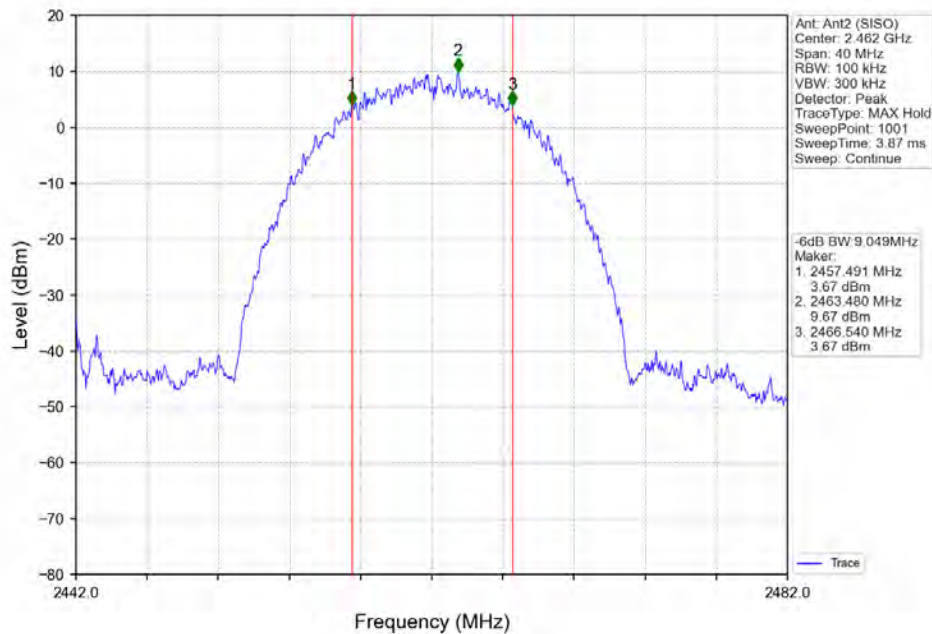
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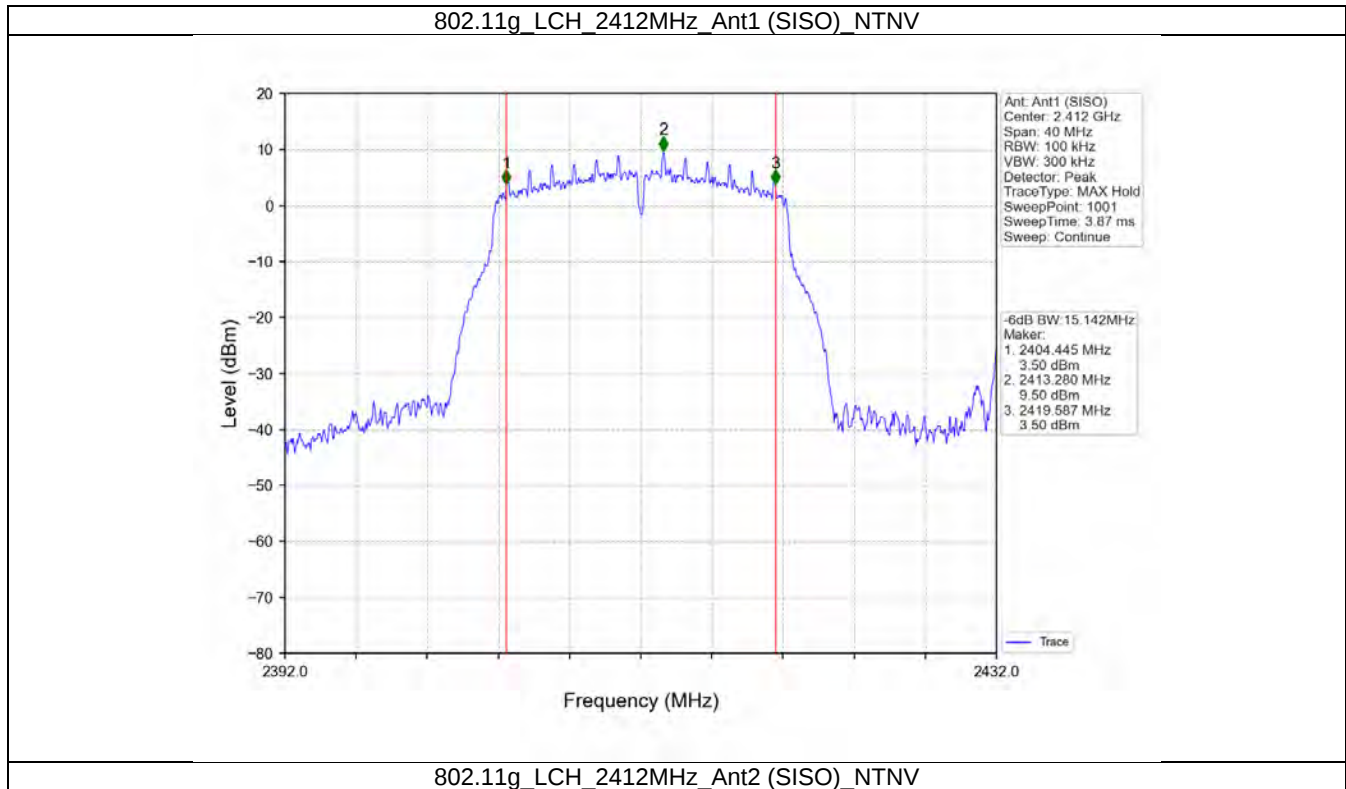
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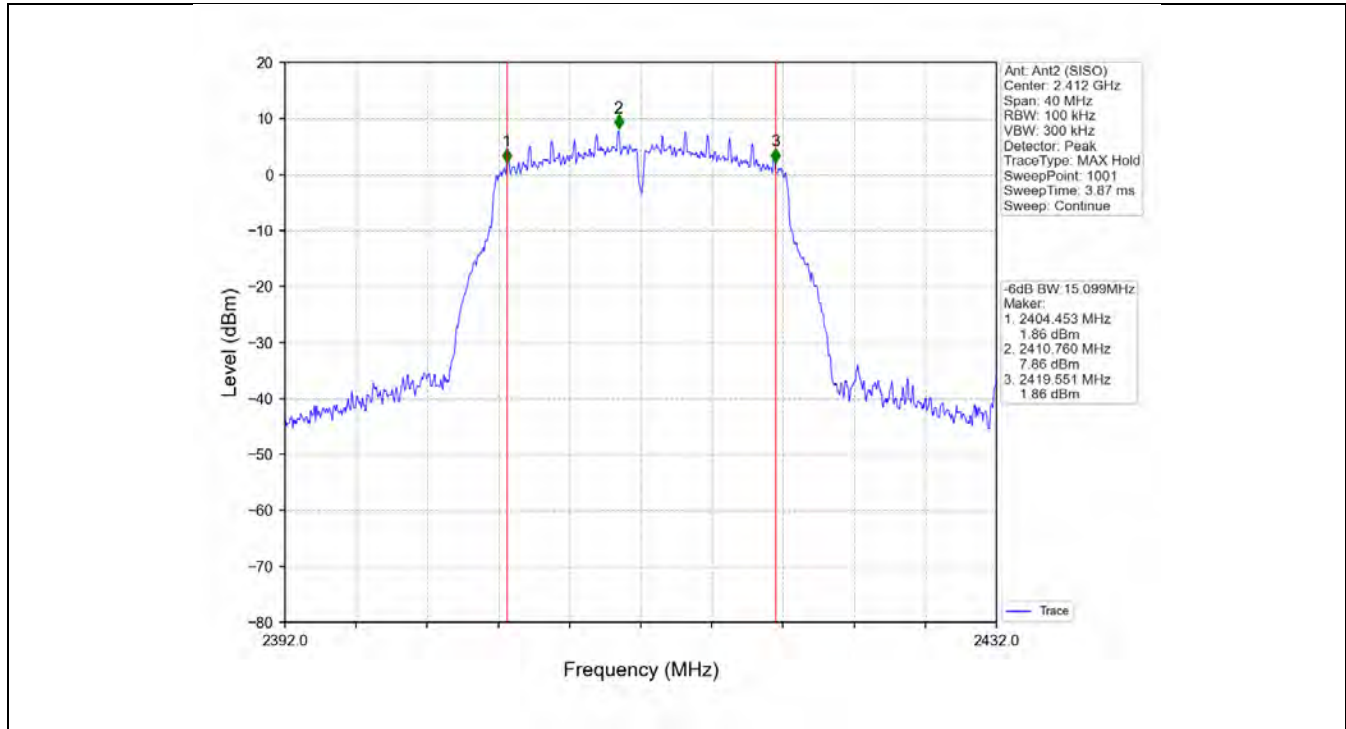
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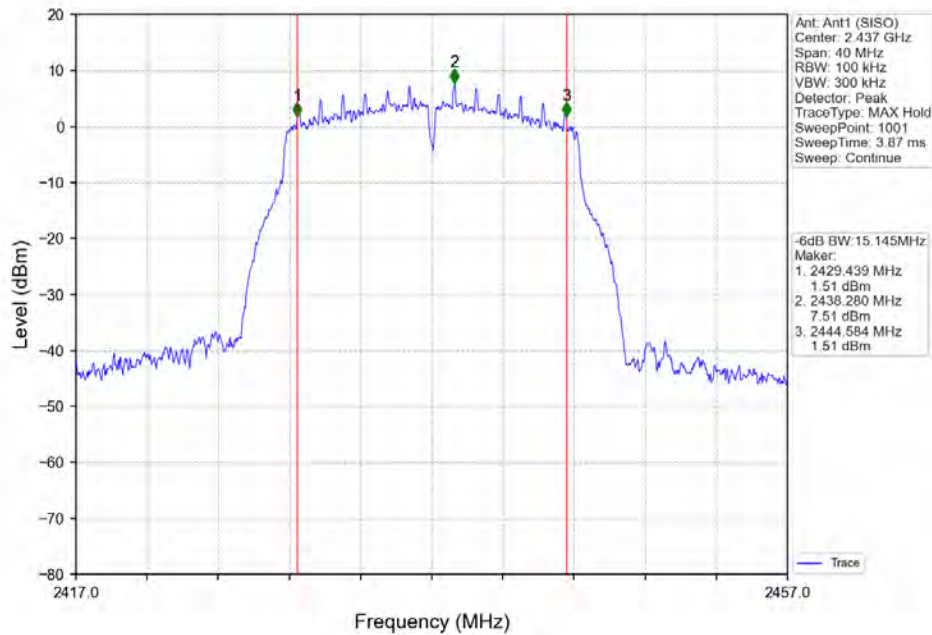
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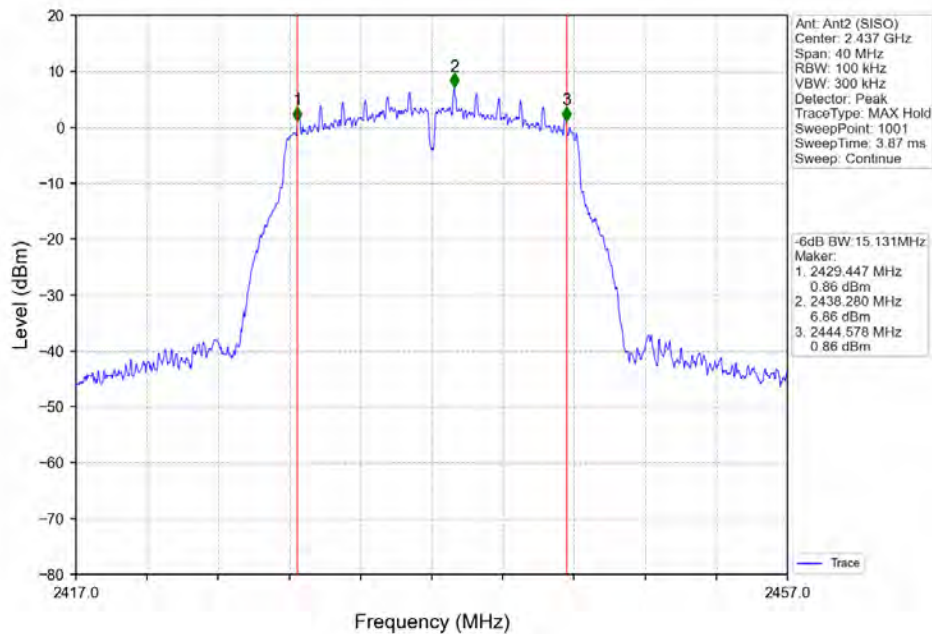
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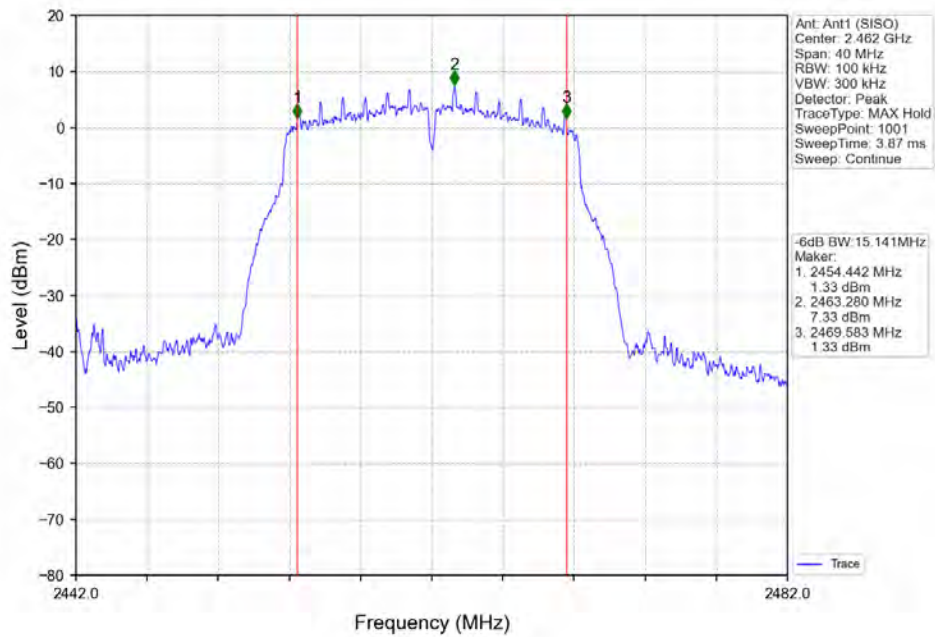
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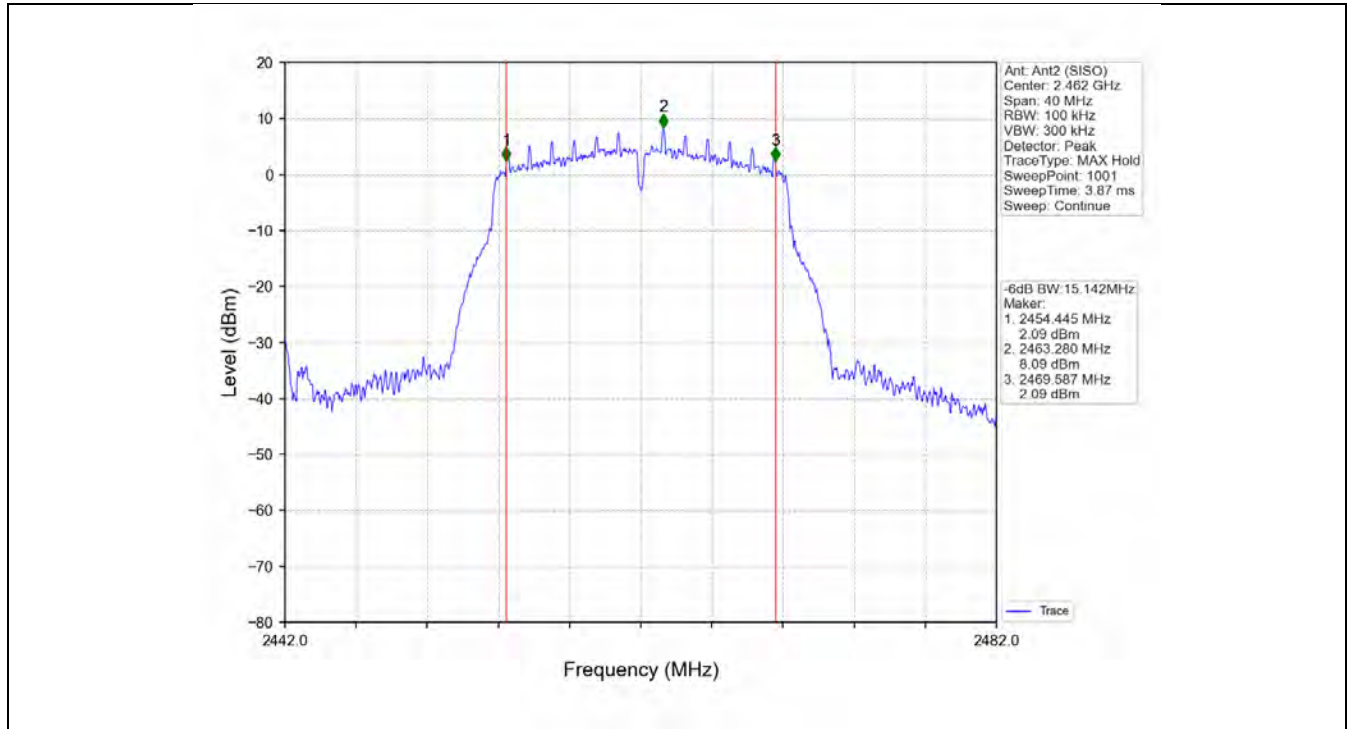
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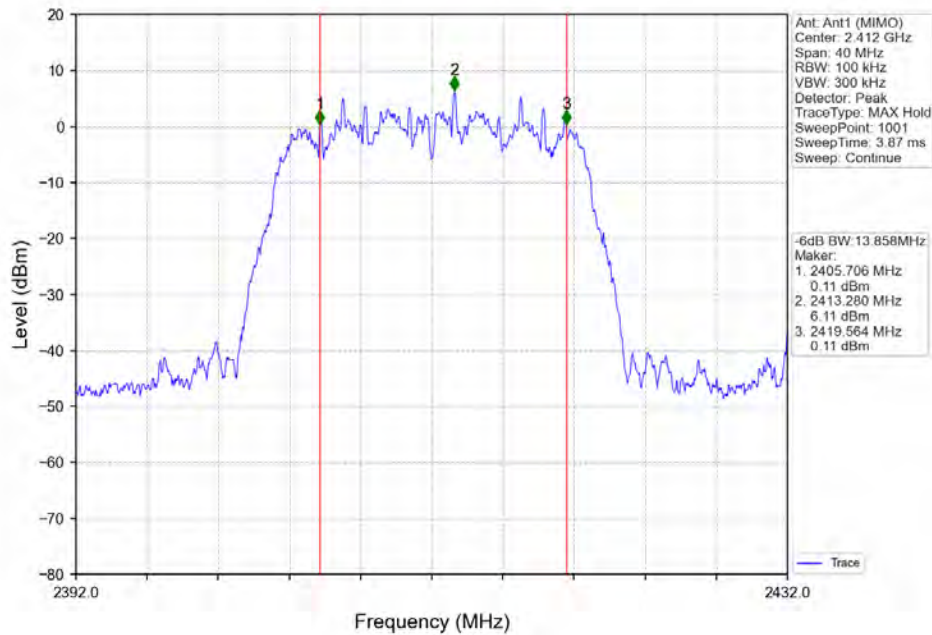
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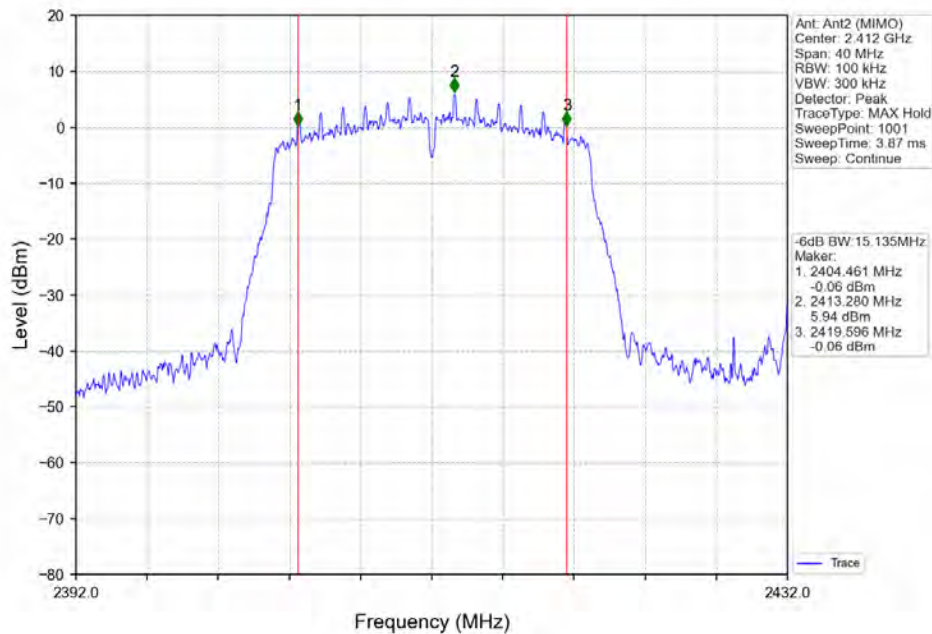
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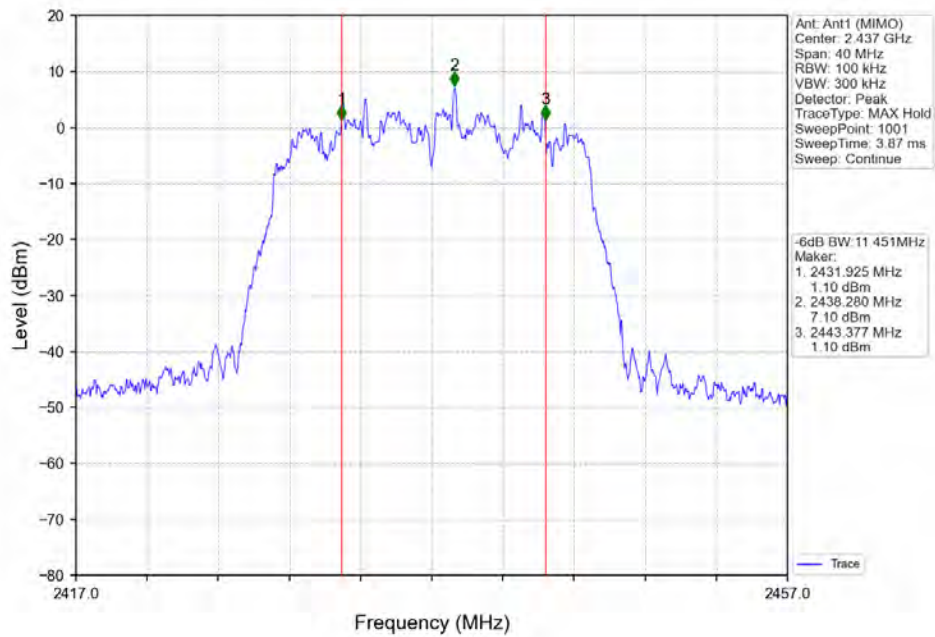
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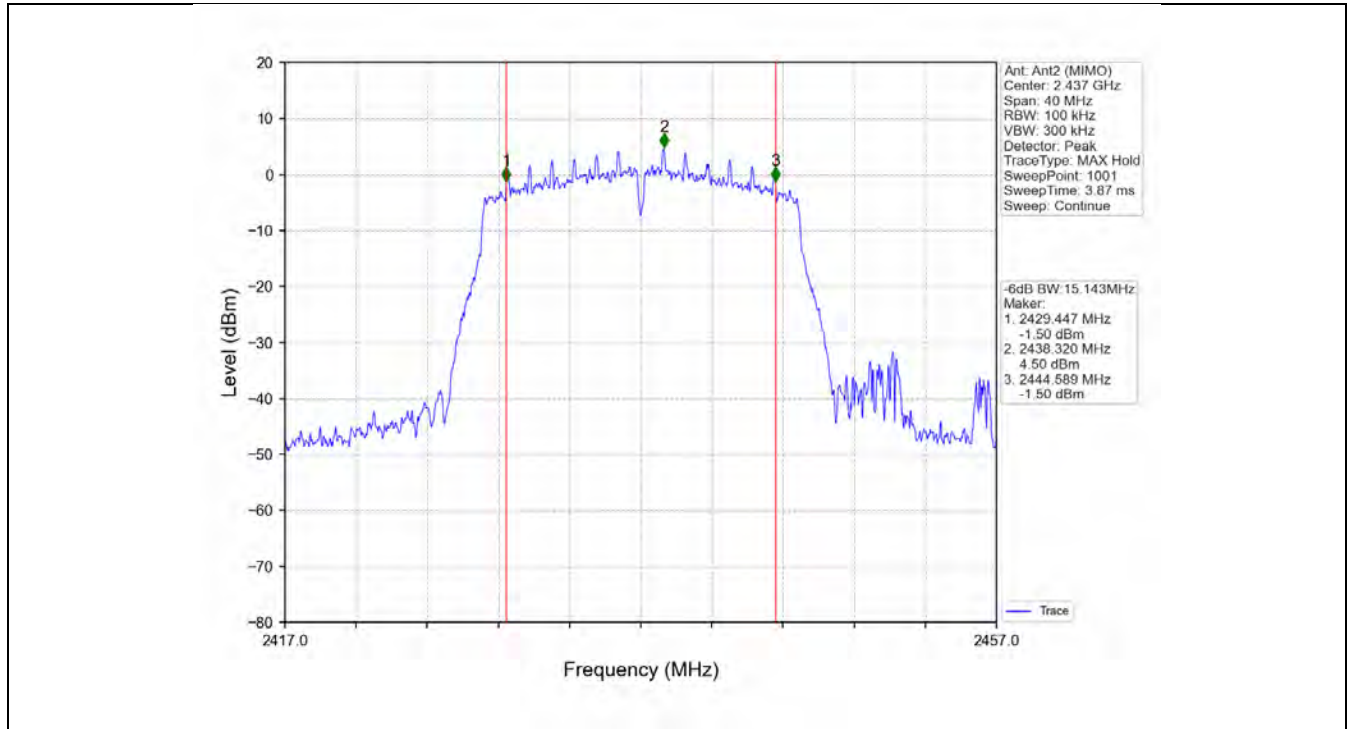
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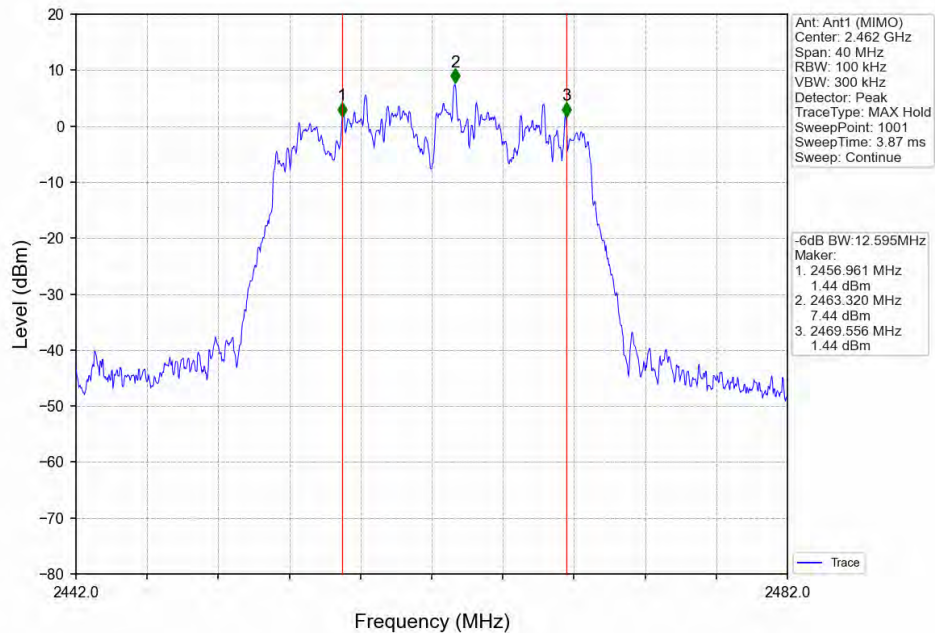
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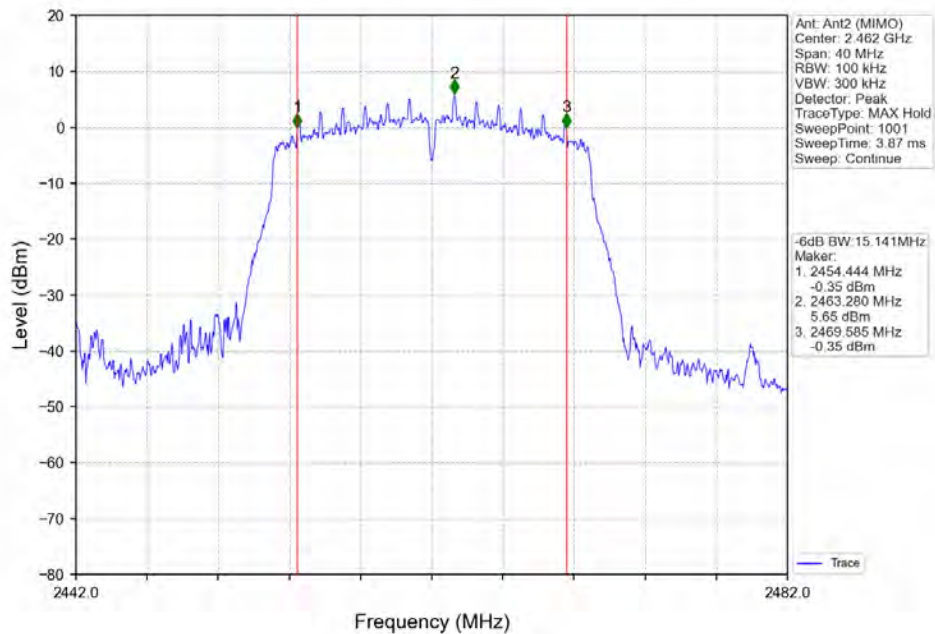
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	17.67	17.48	/	<=30	Pass
		2437	17.93	16.75	/	<=30	Pass
		2462	17.18	17.81	/	<=30	Pass
802.11g	SISO	2412	18.14	18.33	/	<=30	Pass
		2437	17.54	16.71	/	<=30	Pass
		2462	17.24	17.90	/	<=30	Pass
802.11n (HT20)	MIMO	2412	15.45	15.74	18.61	<=29.89	Pass
		2437	14.63	14.42	17.54	<=29.89	Pass
		2462	14.56	15.25	17.93	<=29.89	Pass

Note1: Antenna Gain: Ant1: 3.10dBi; Ant2: 3.10dBi;

Note2: Directional Gain: 6.11dBi



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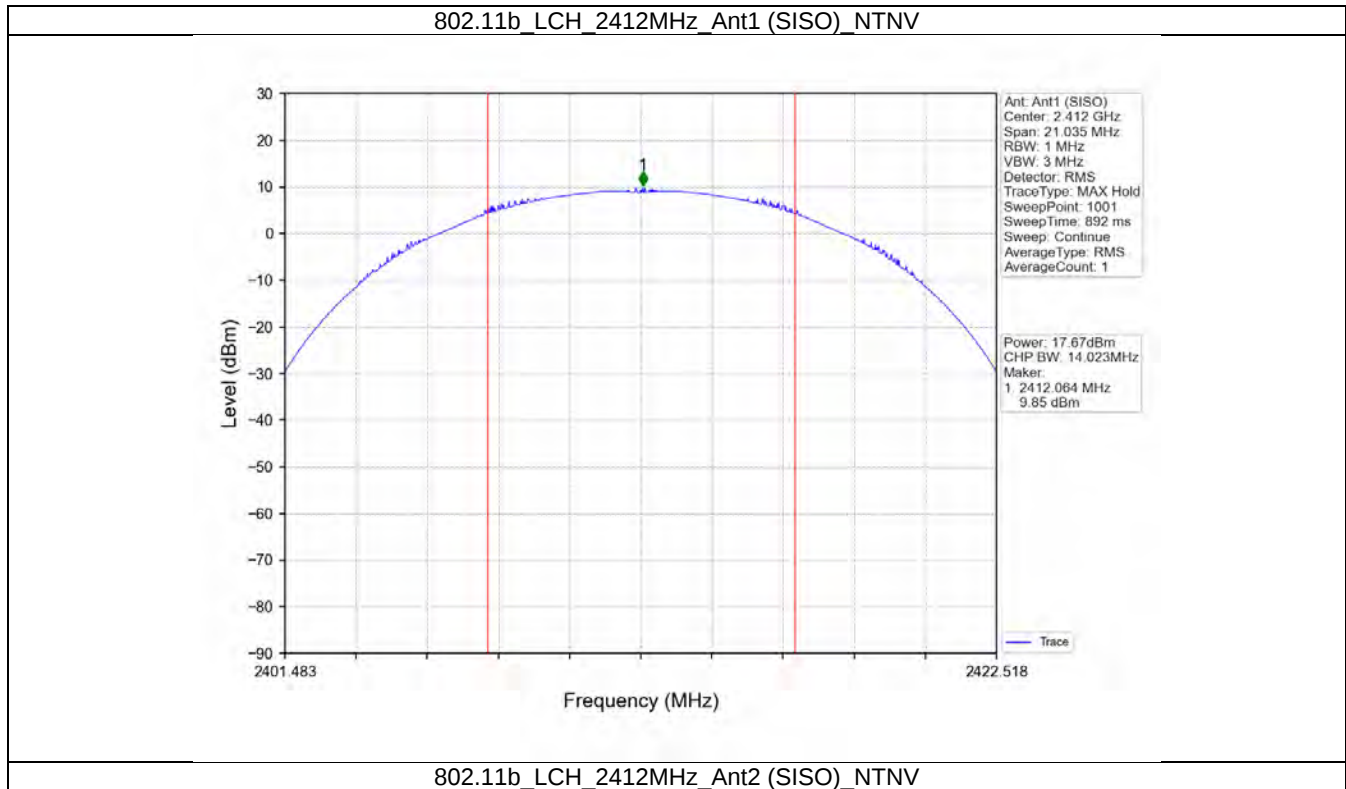
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3.1.2 Test Graph



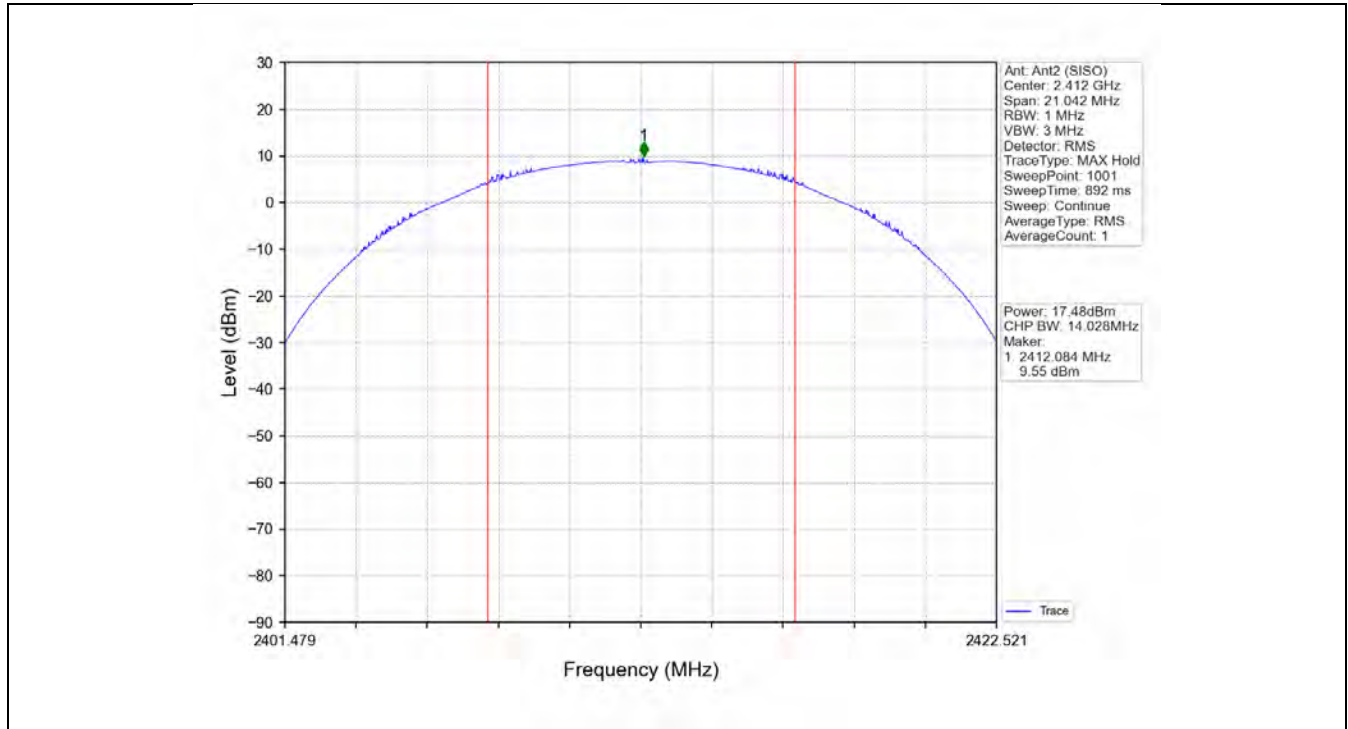
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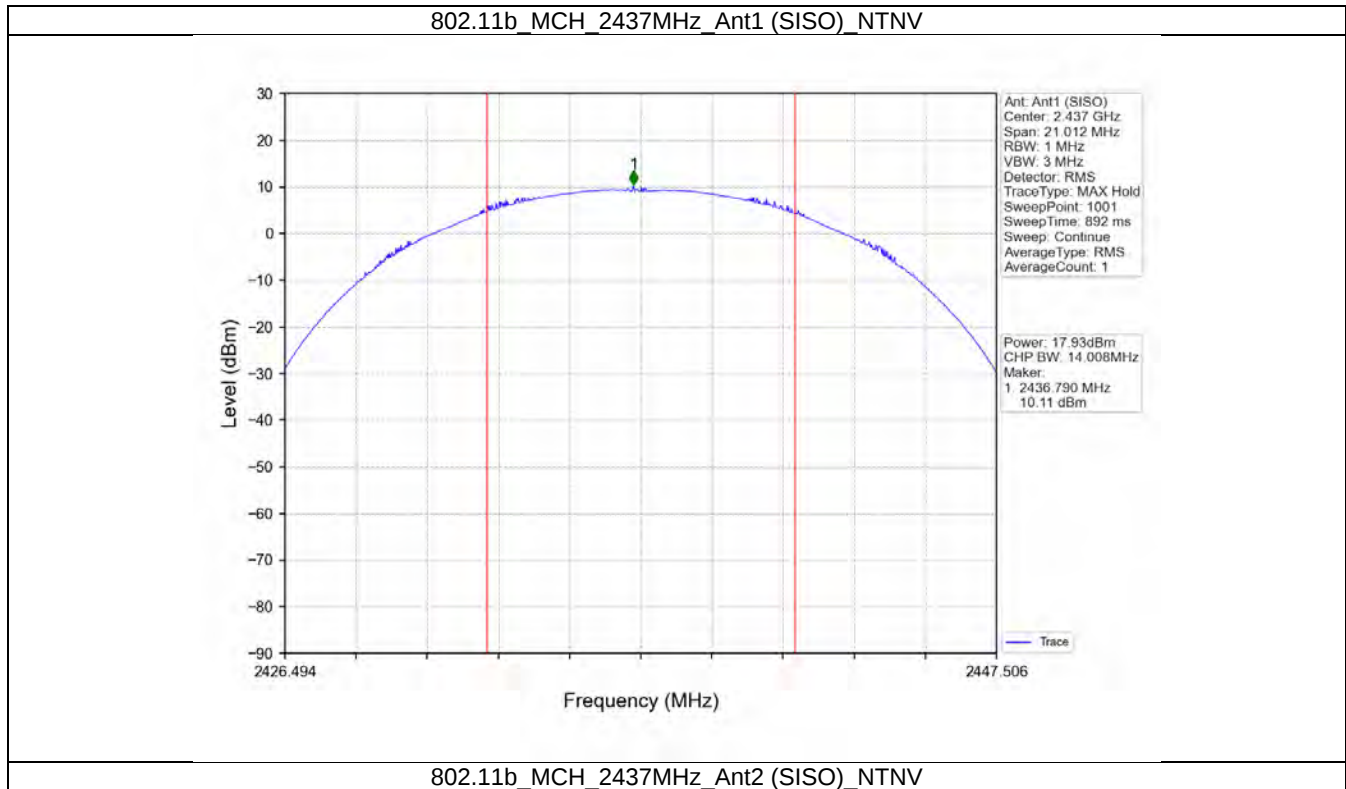
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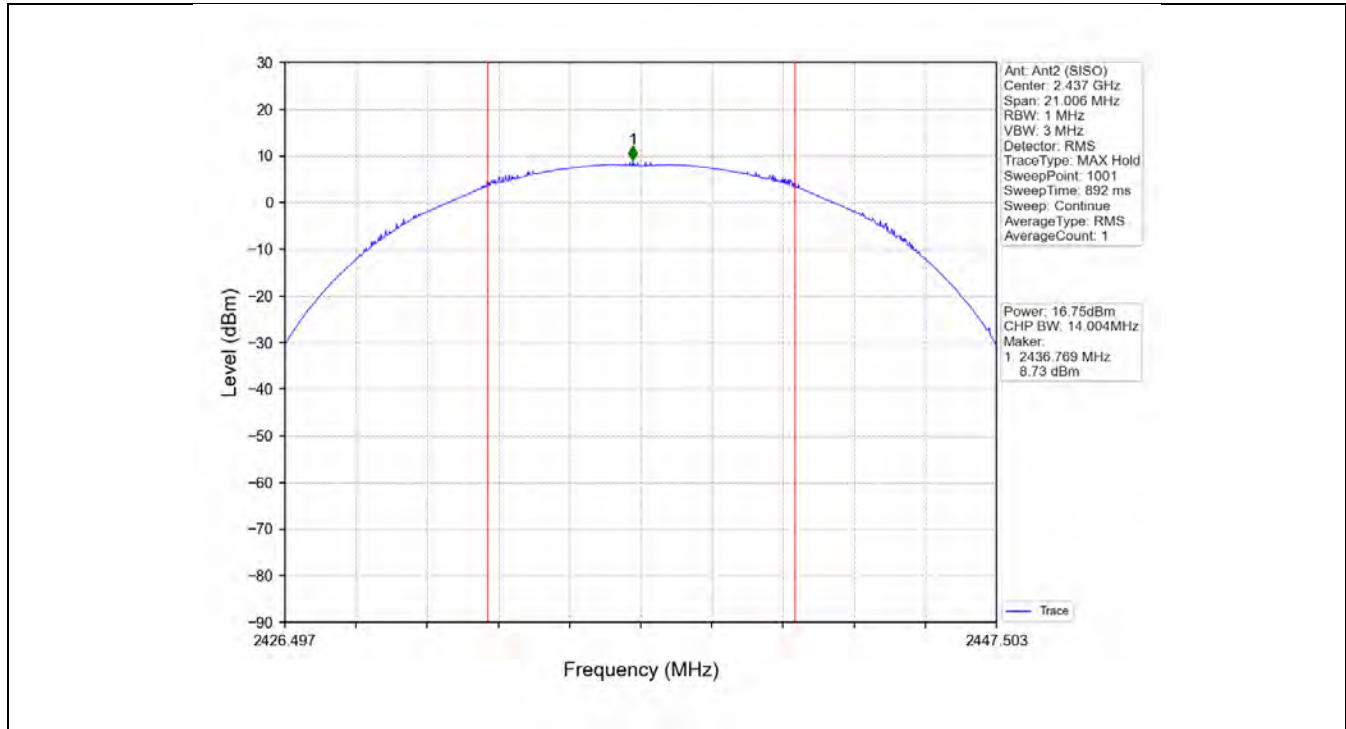
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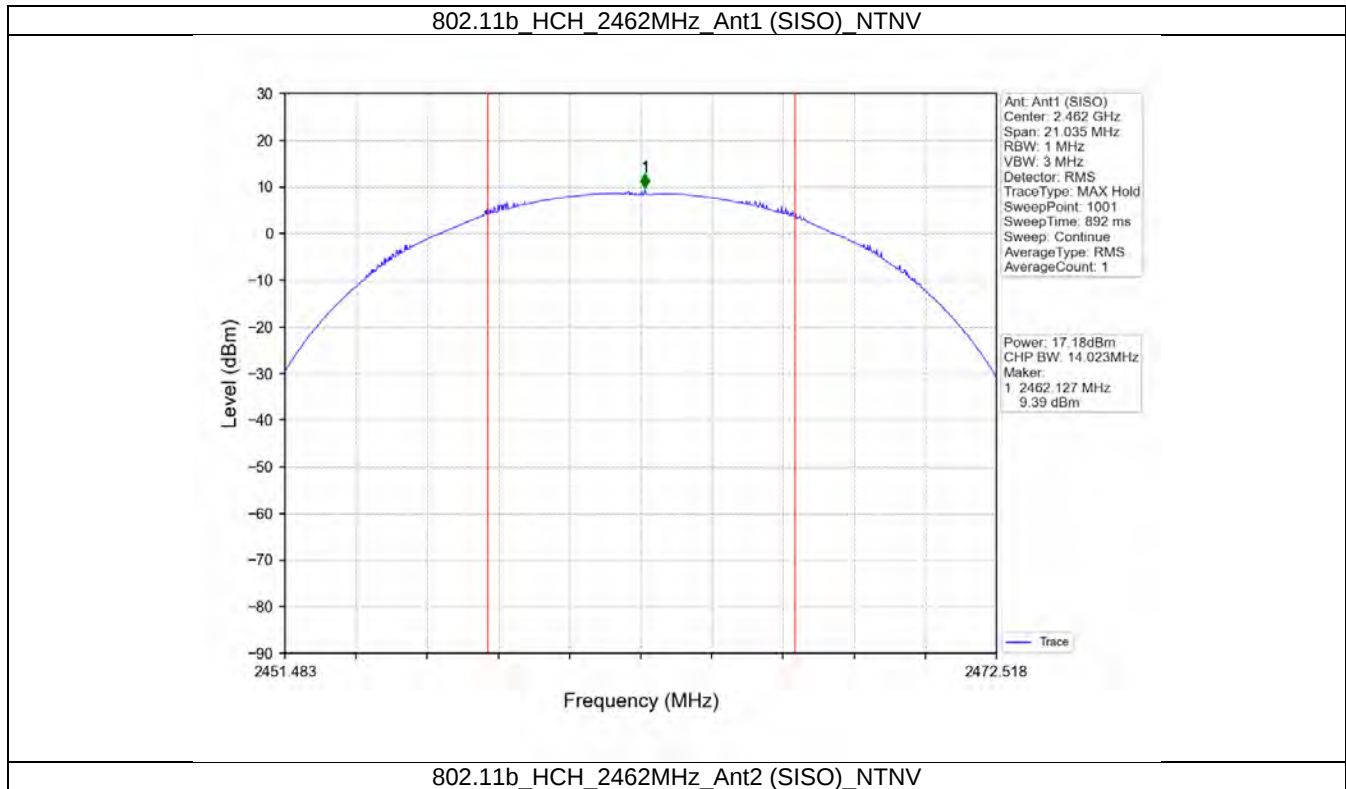
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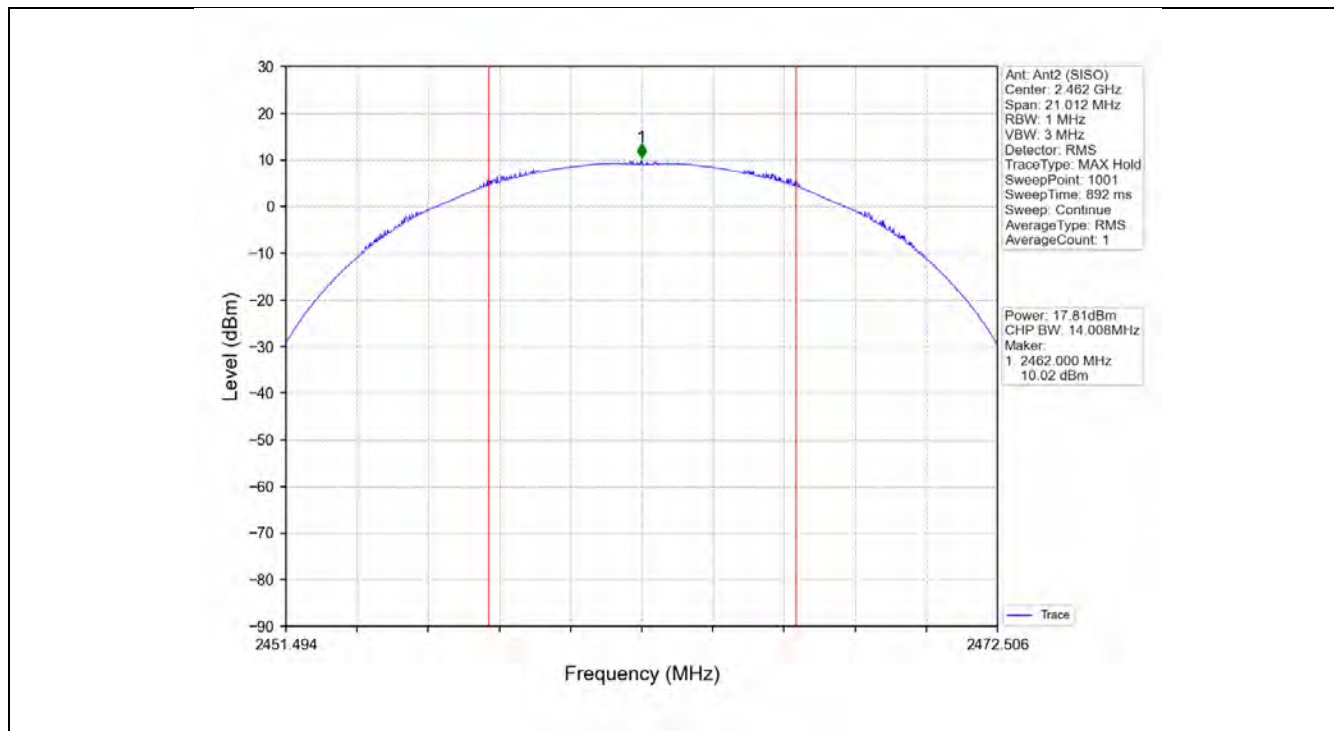
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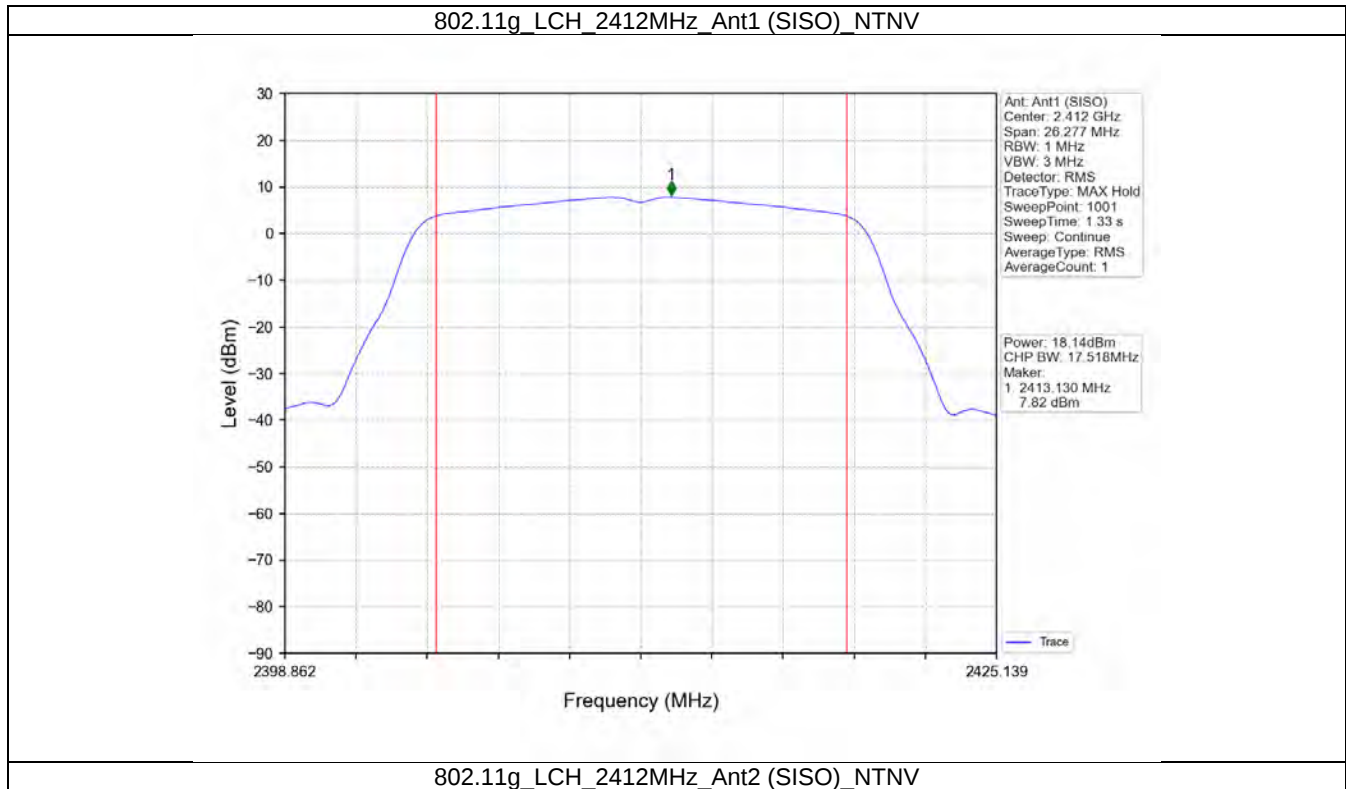
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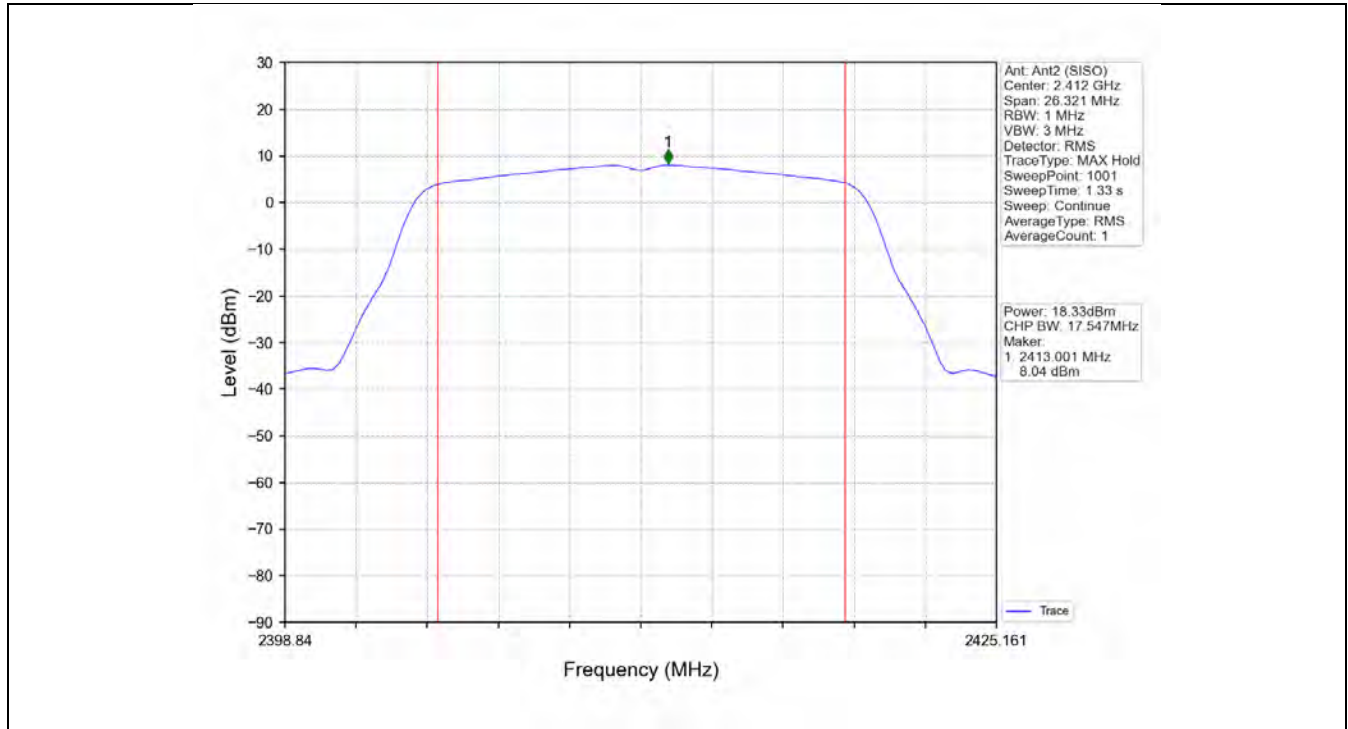
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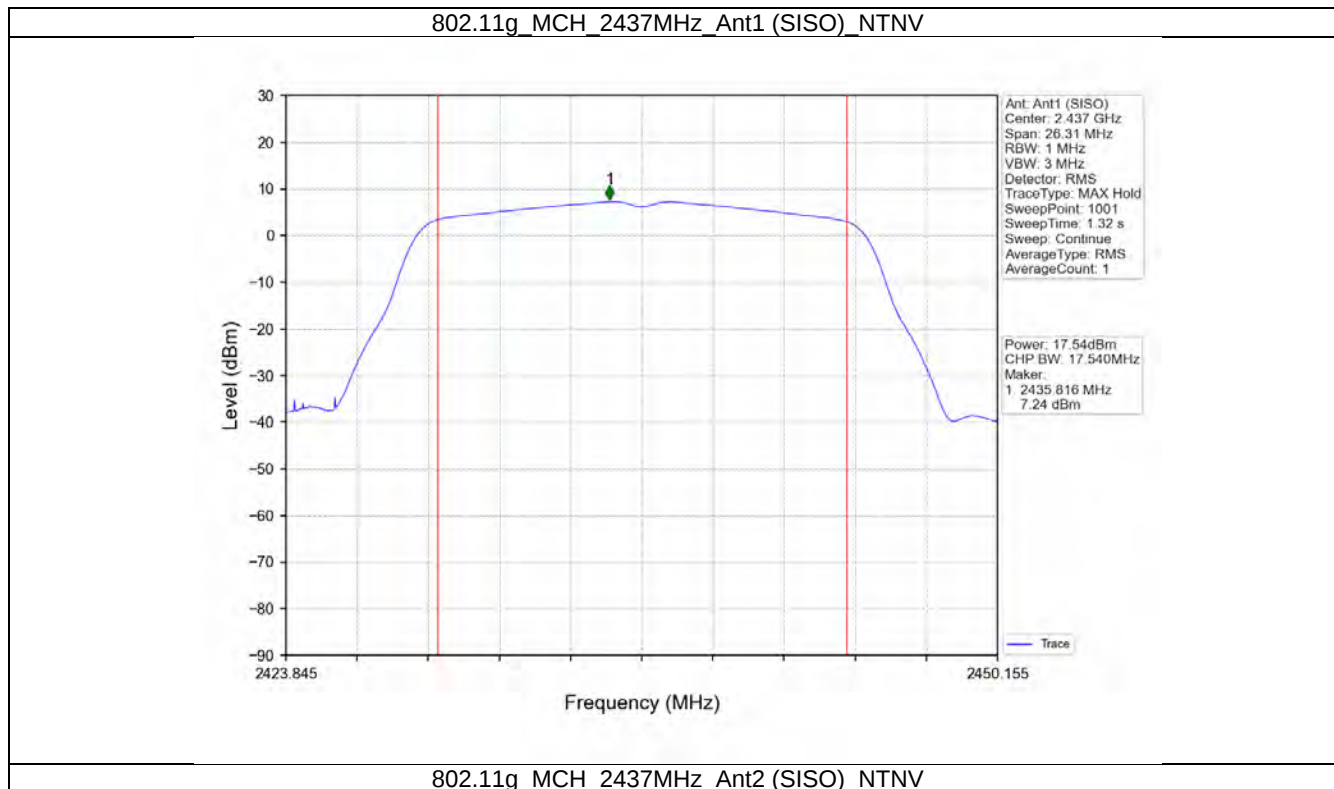
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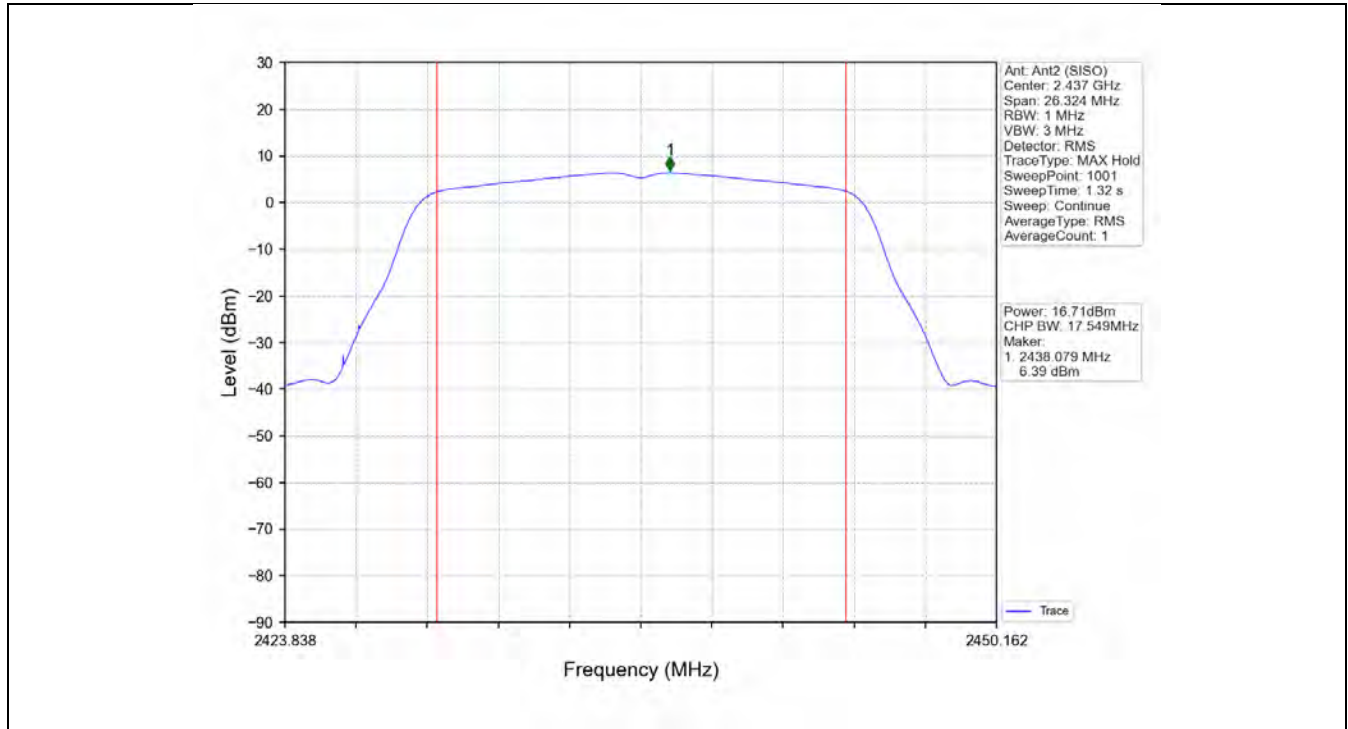
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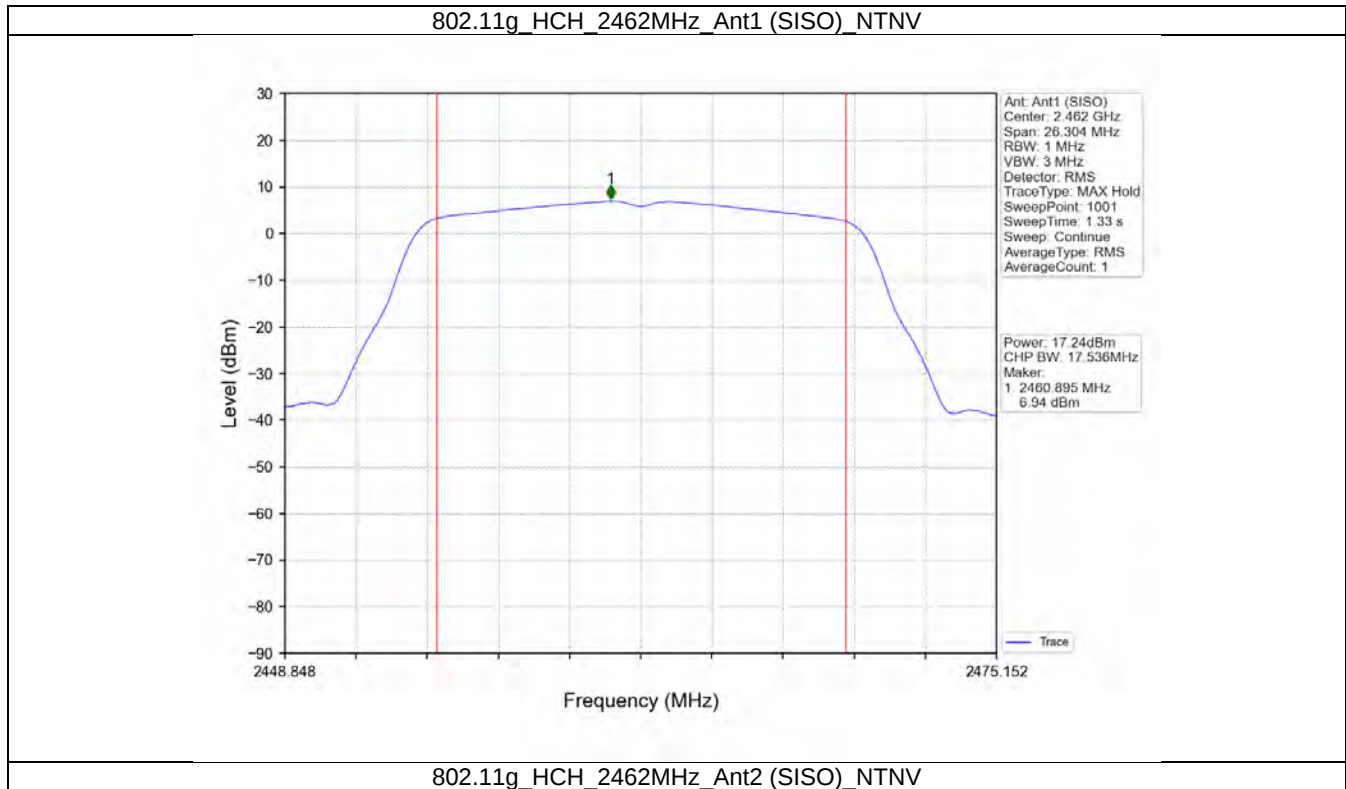
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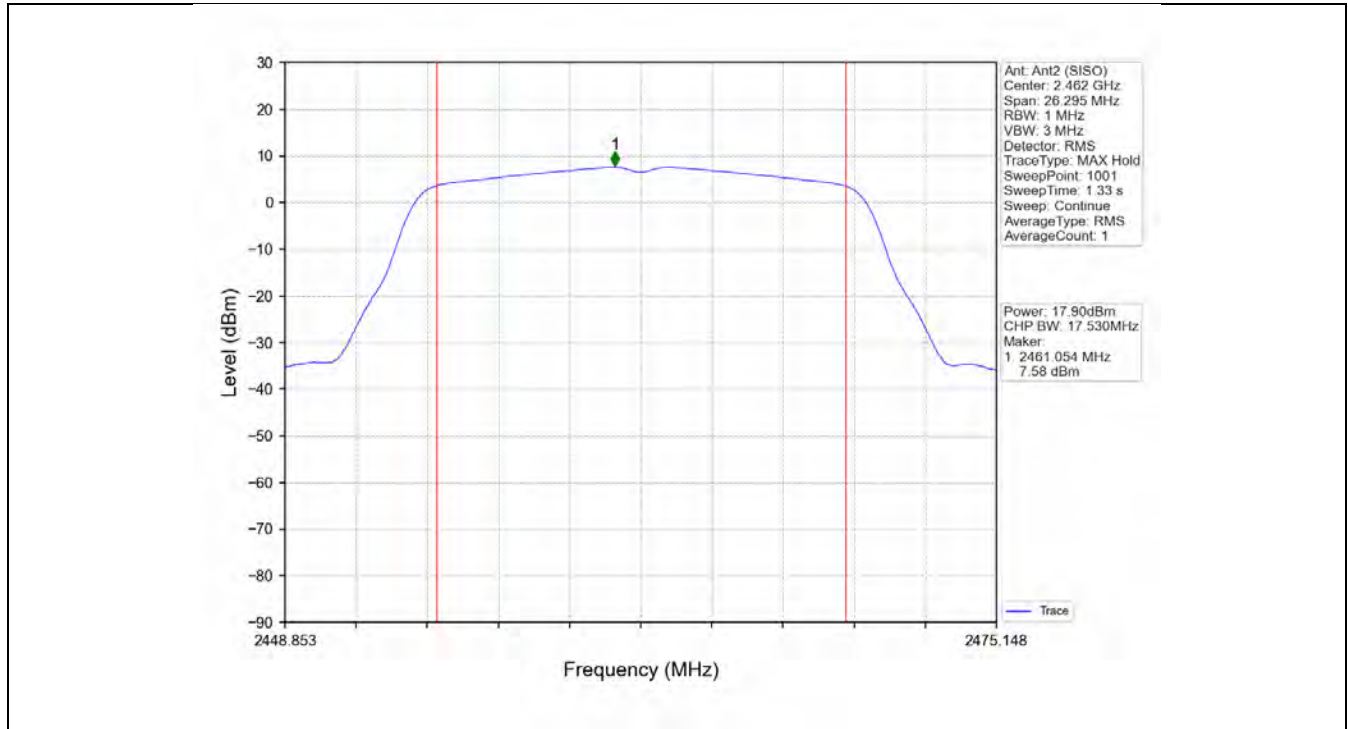
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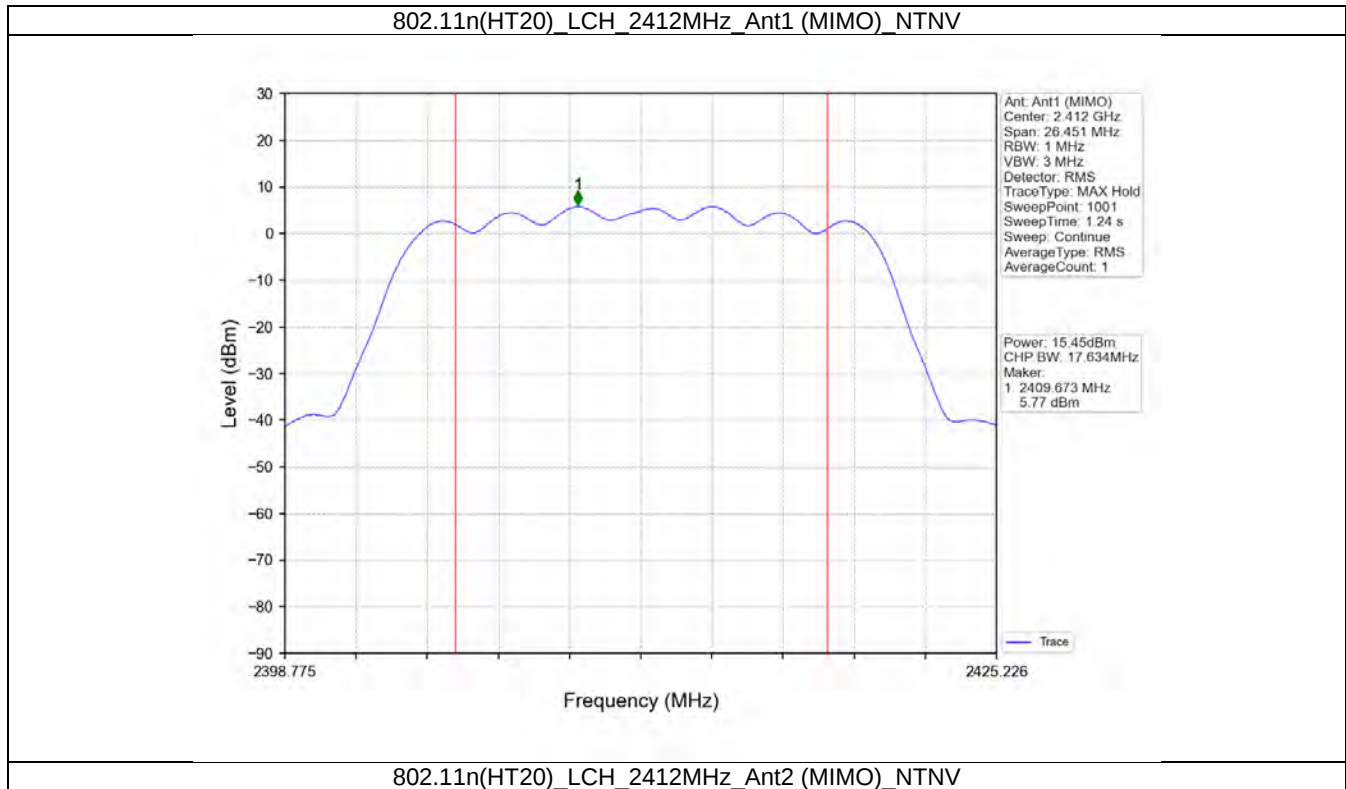
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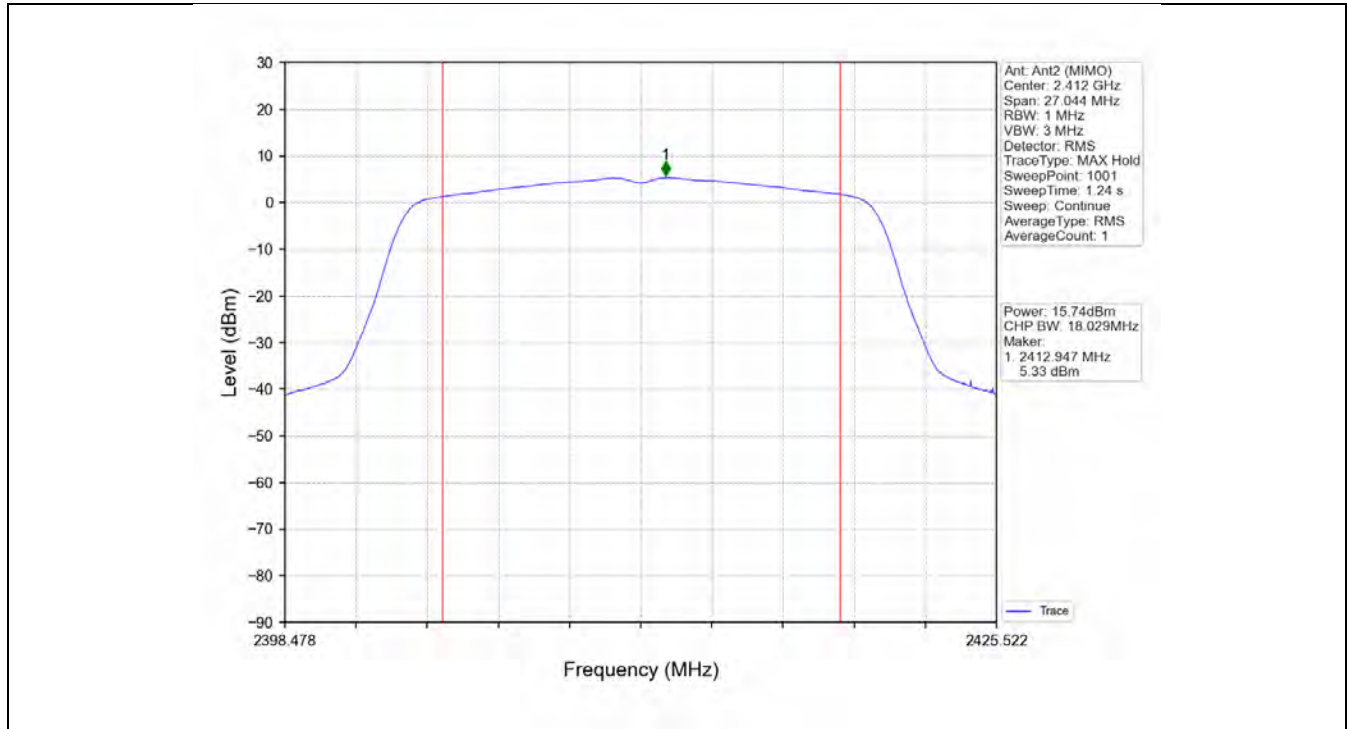
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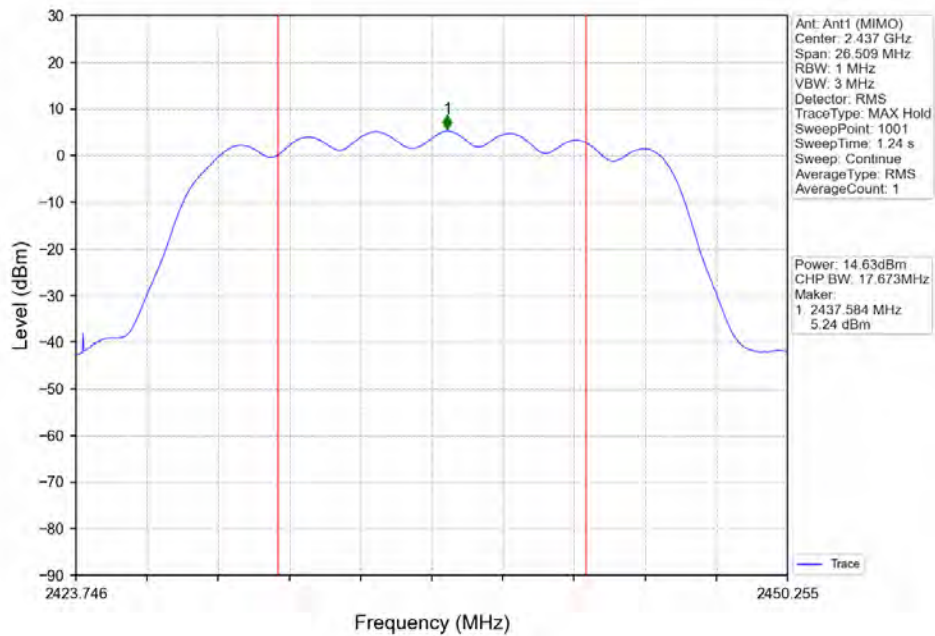
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



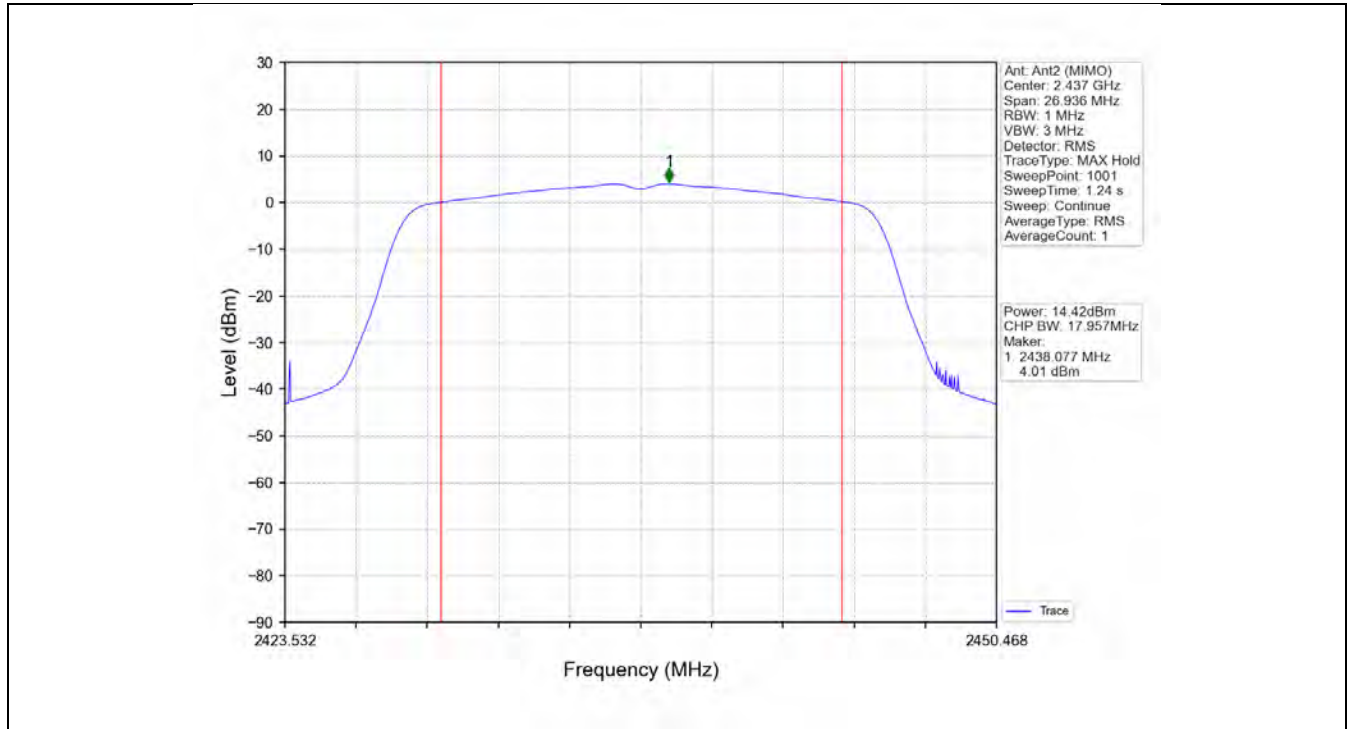
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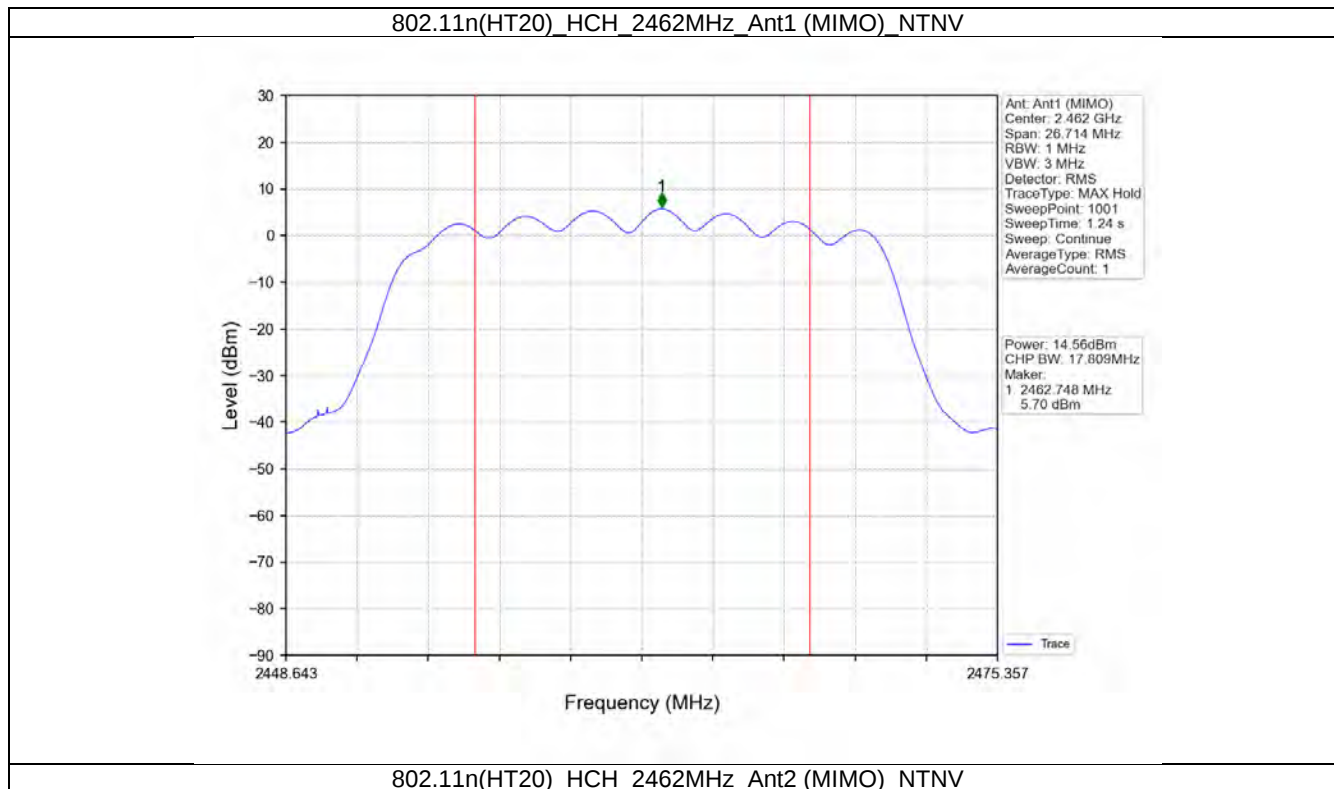
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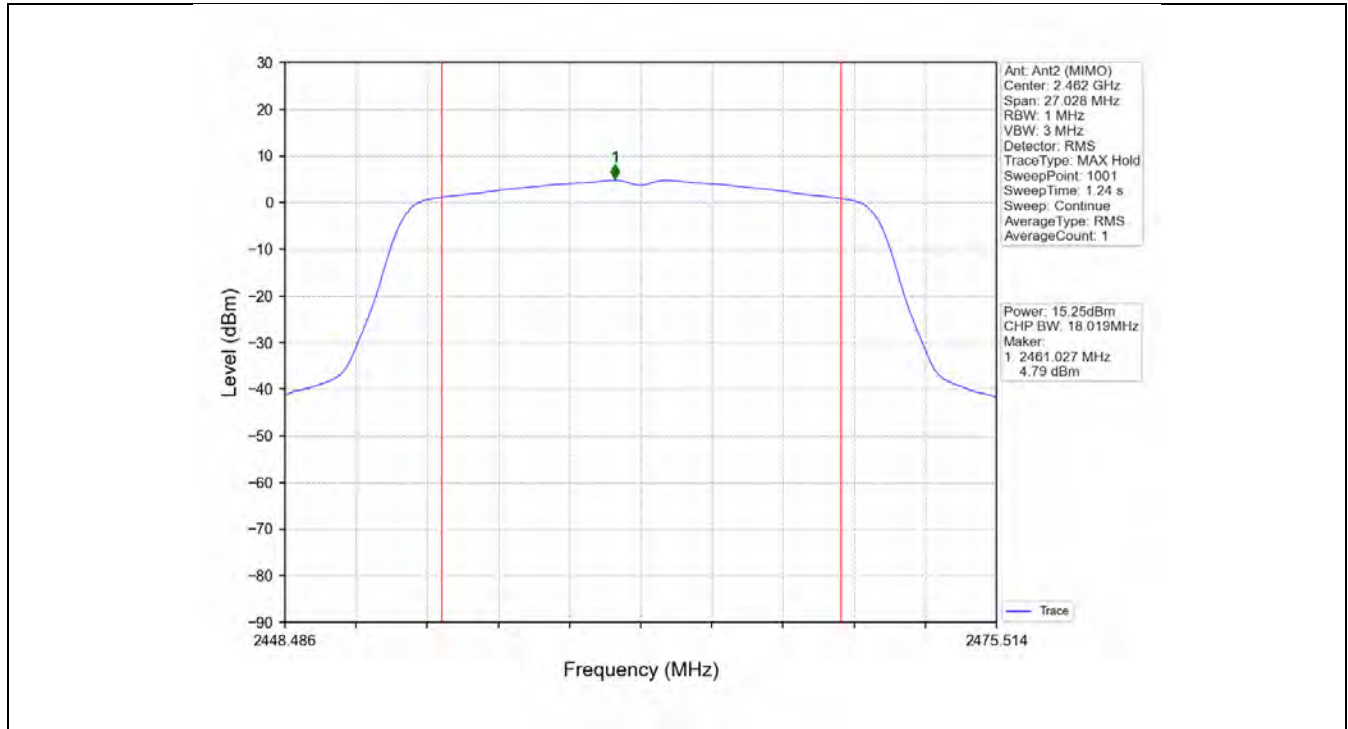
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4. Maximum Power Spectral Density

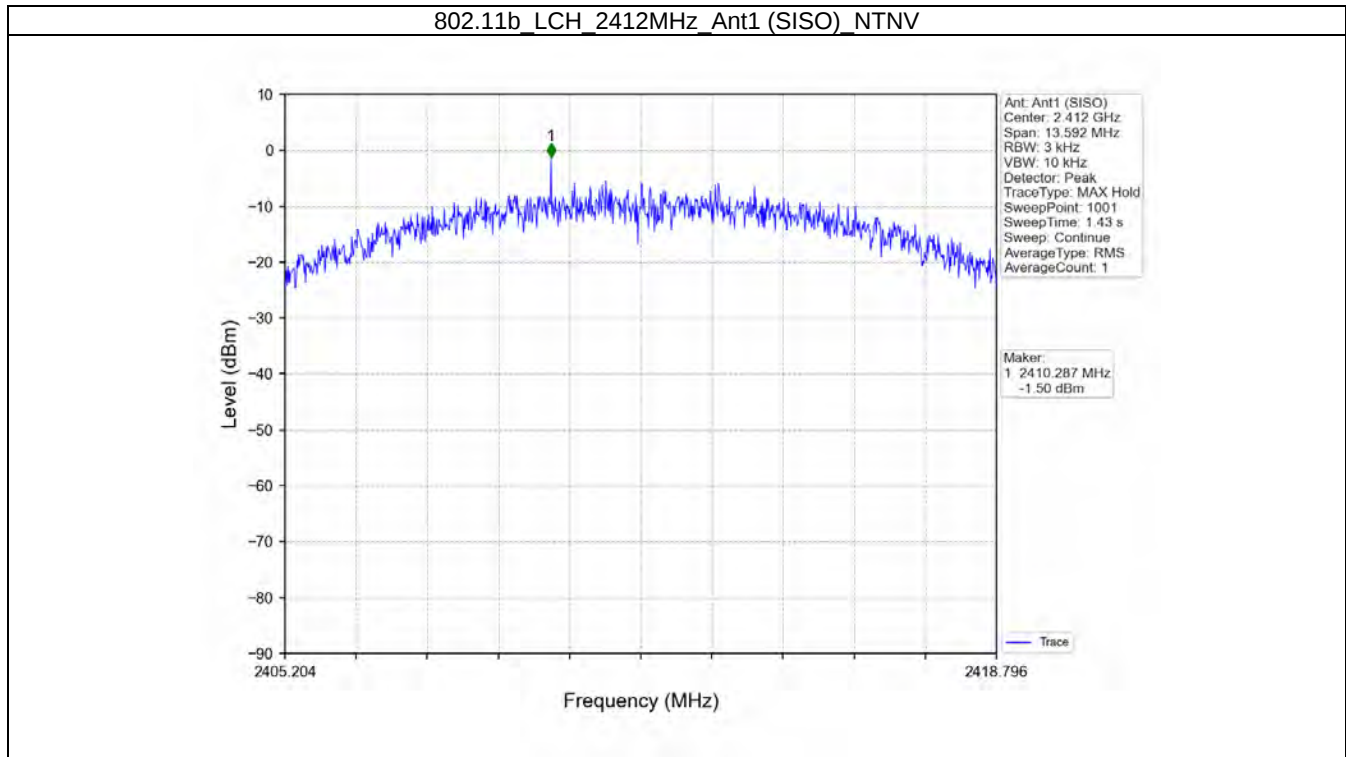
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-1.50	-5.63	/	<=8	Pass
		2437	-5.14	-6.38	/	<=8	Pass
		2462	-4.73	-5.27	/	<=8	Pass
802.11g	SISO	2412	-5.59	-7.07	/	<=8	Pass
		2437	-7.27	-8.55	/	<=8	Pass
		2462	-8.20	-7.83	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-8.99	-10.30	-7.19	<=7.89	Pass
		2437	-9.44	-11.10	-8.21	<=7.89	Pass
		2462	-8.27	-9.36	-6.74	<=7.89	Pass

Note1: Antenna Gain: Ant1: 3.10dBi; Ant2: 3.10dBi;
Note2: Directional Gain: 6.11dBi

4.1.2 Test Graph



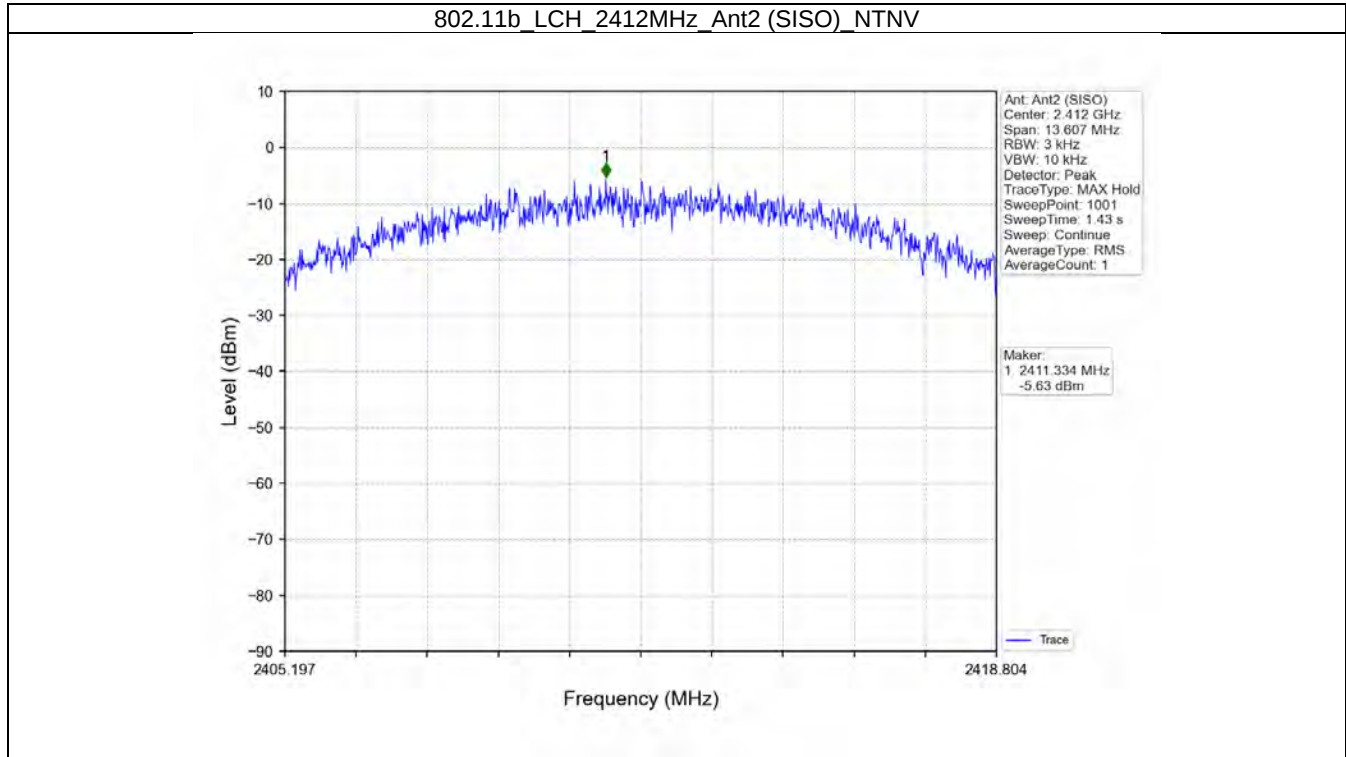
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



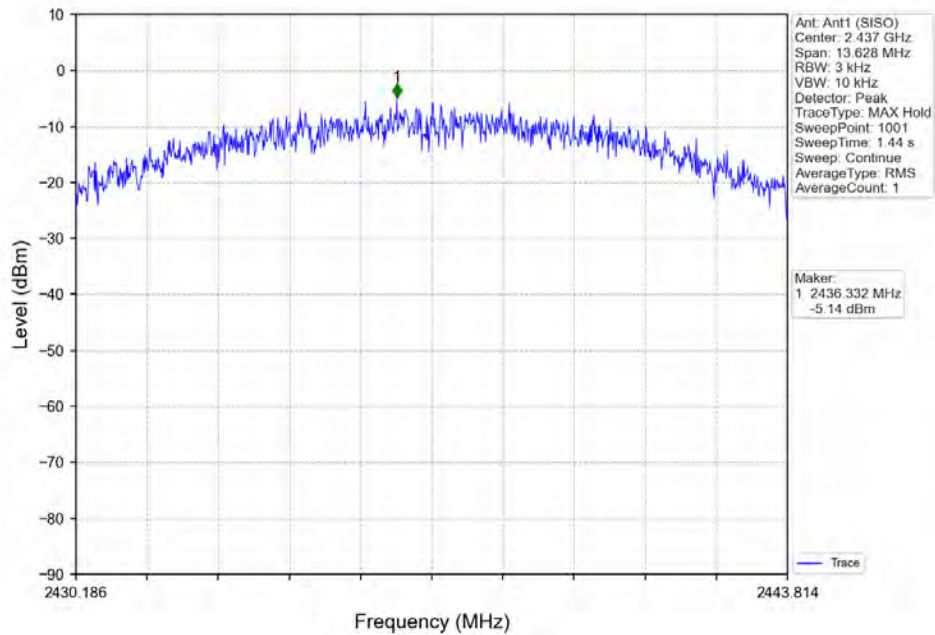
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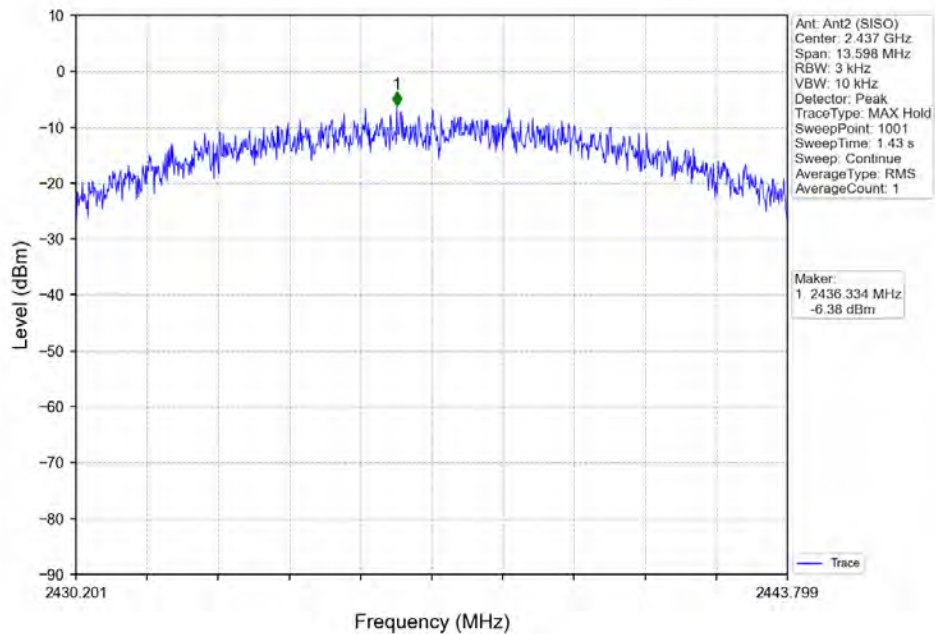
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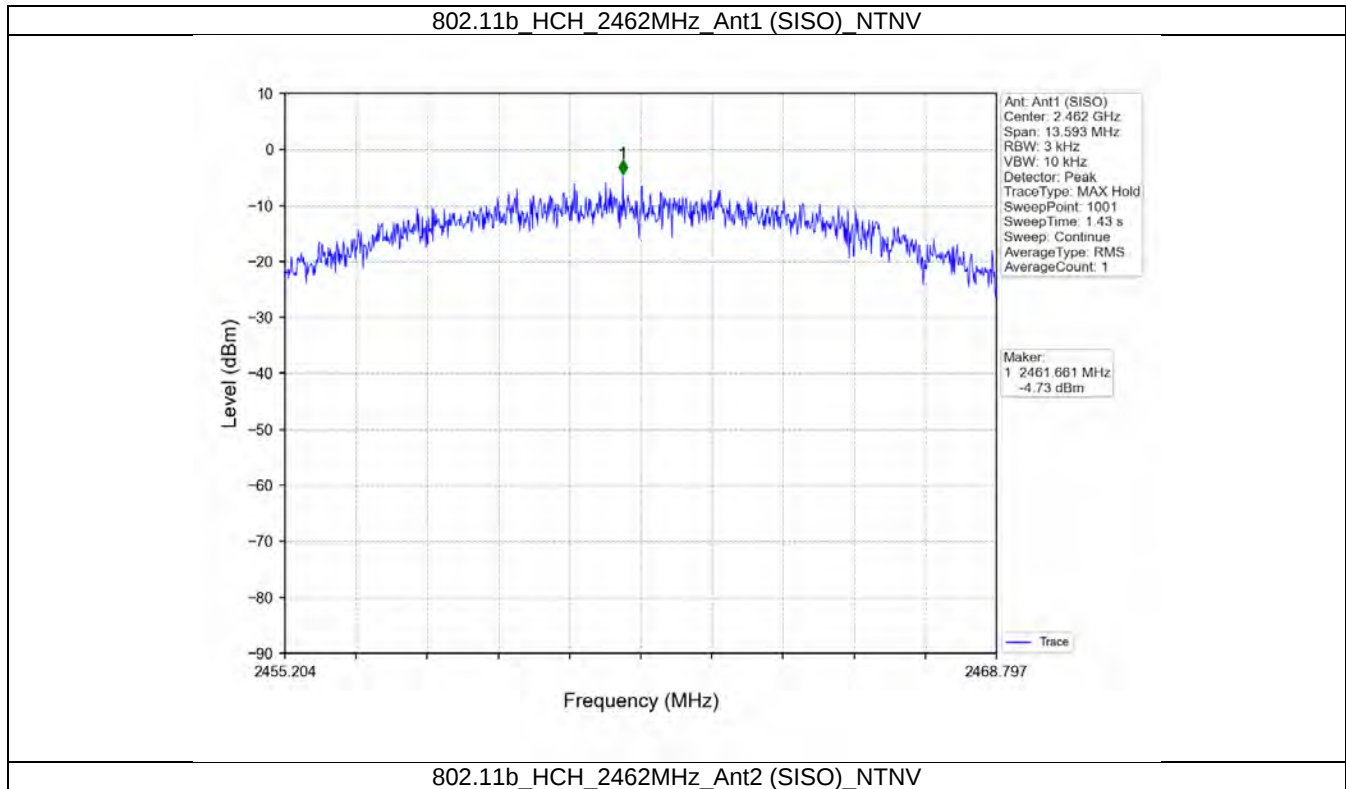
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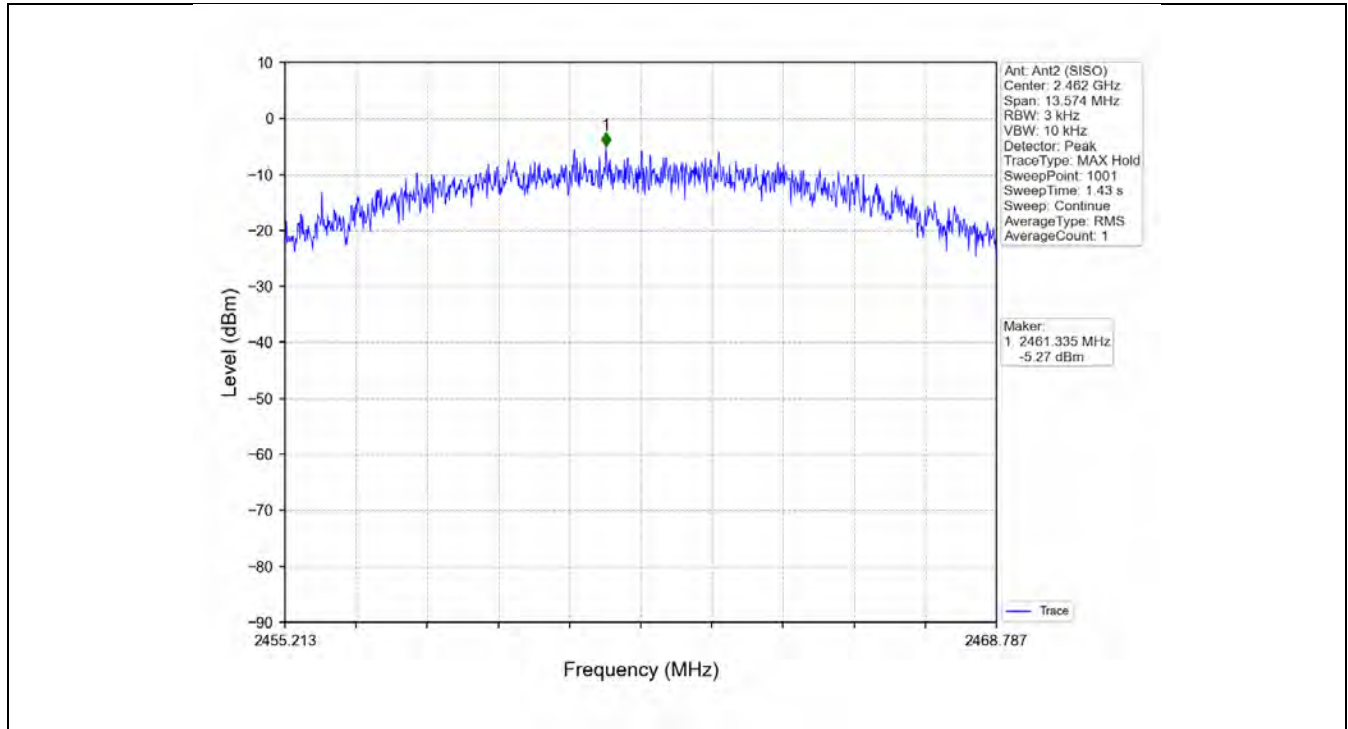
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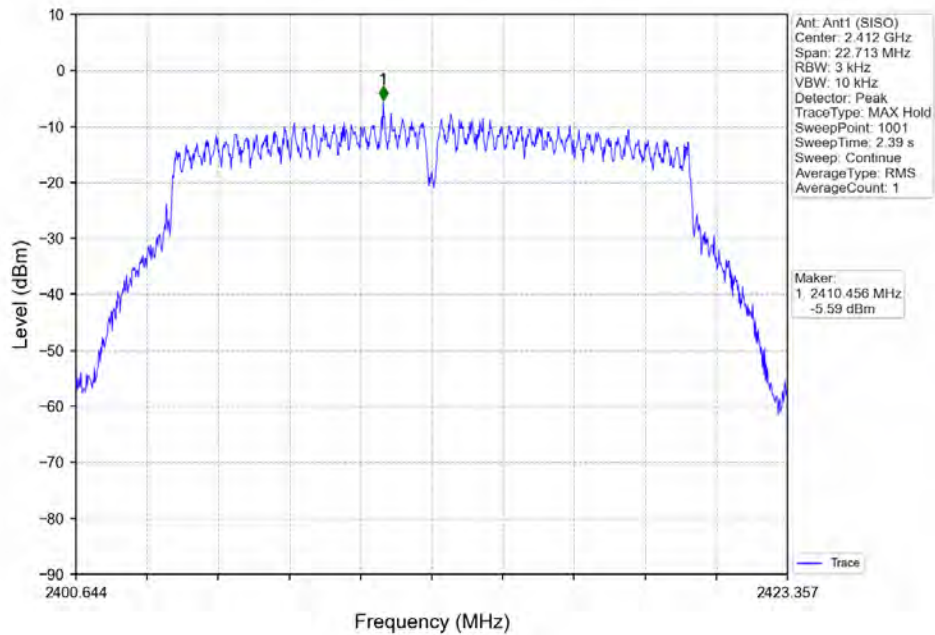
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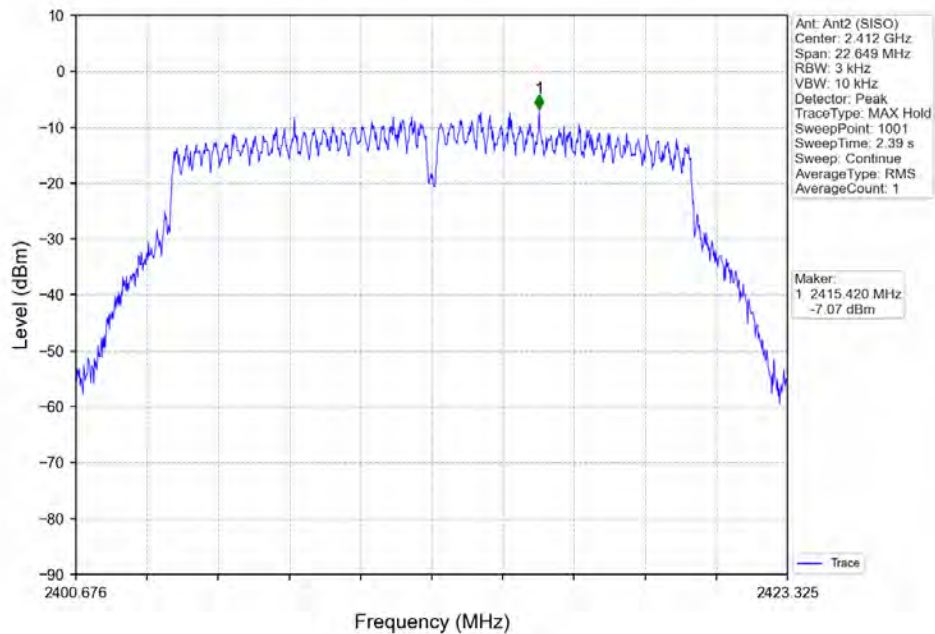
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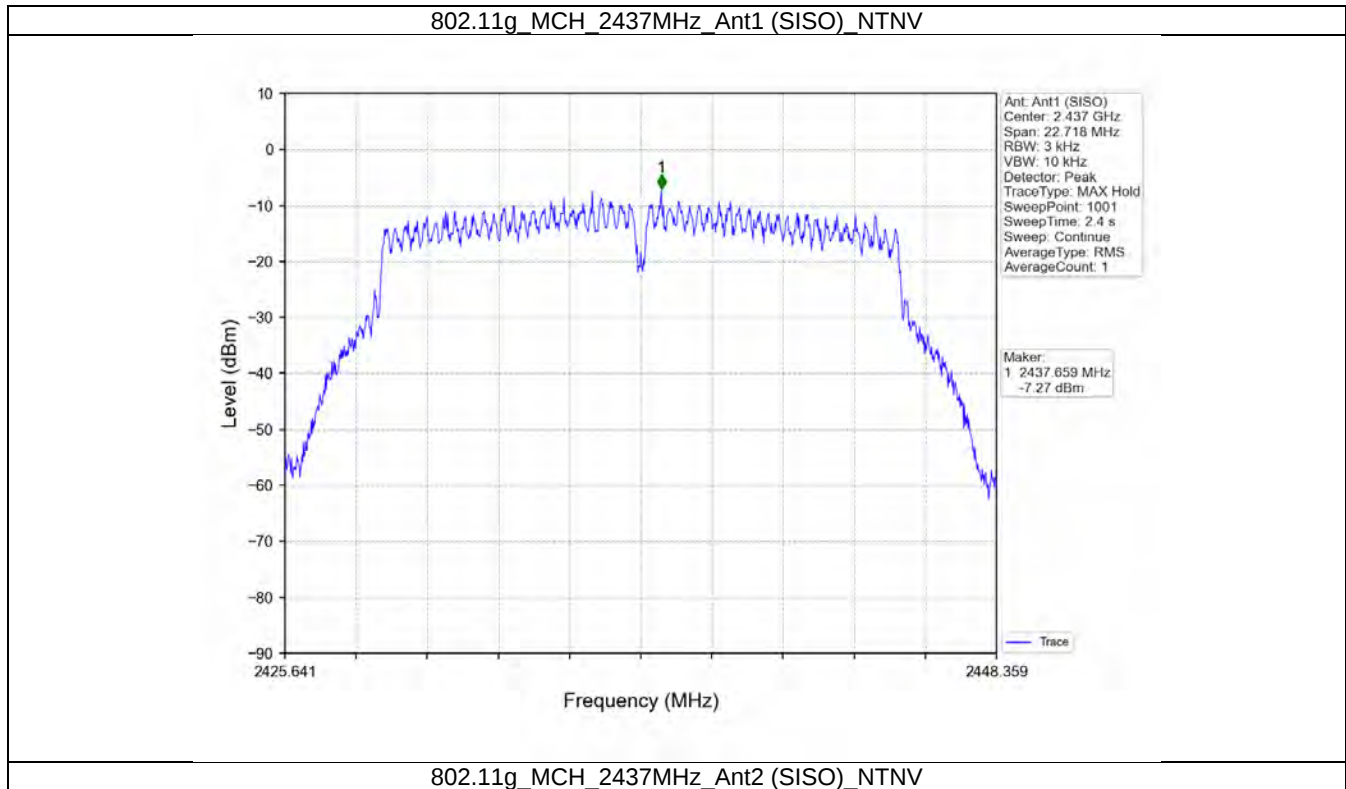
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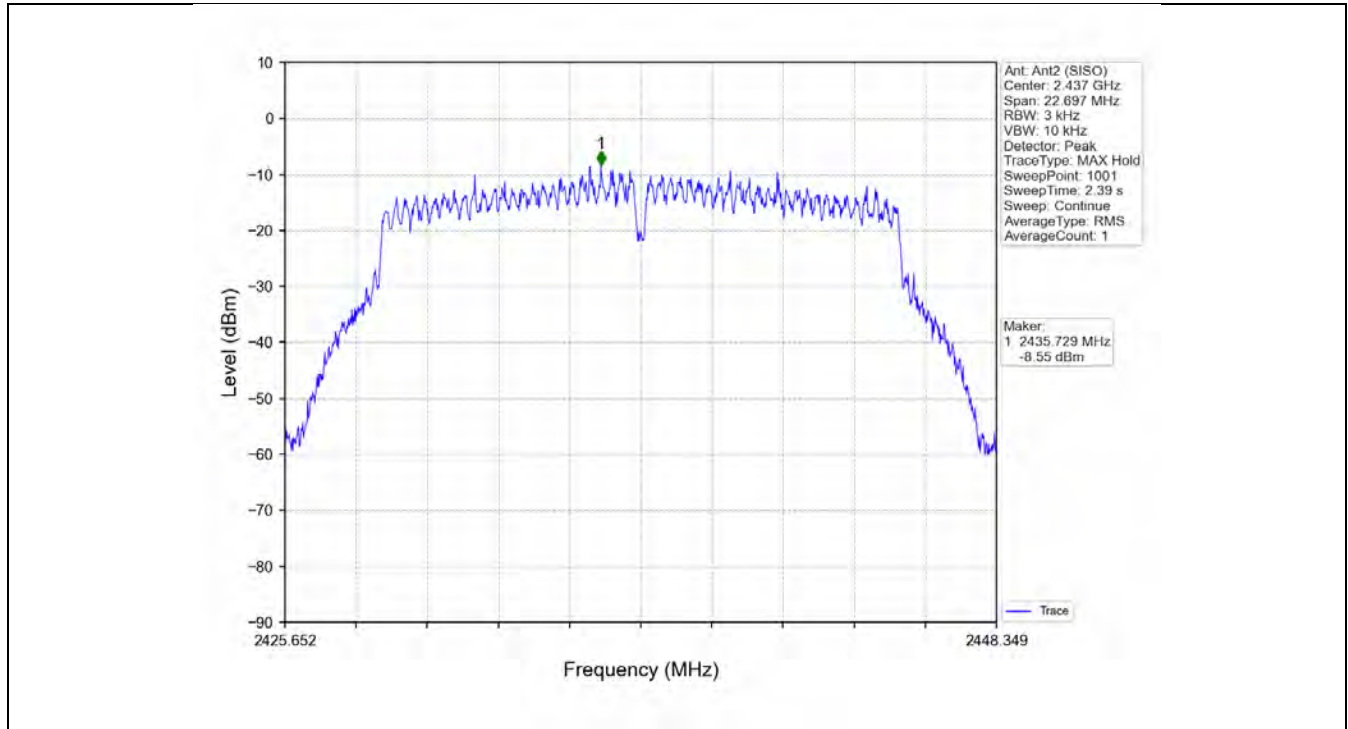
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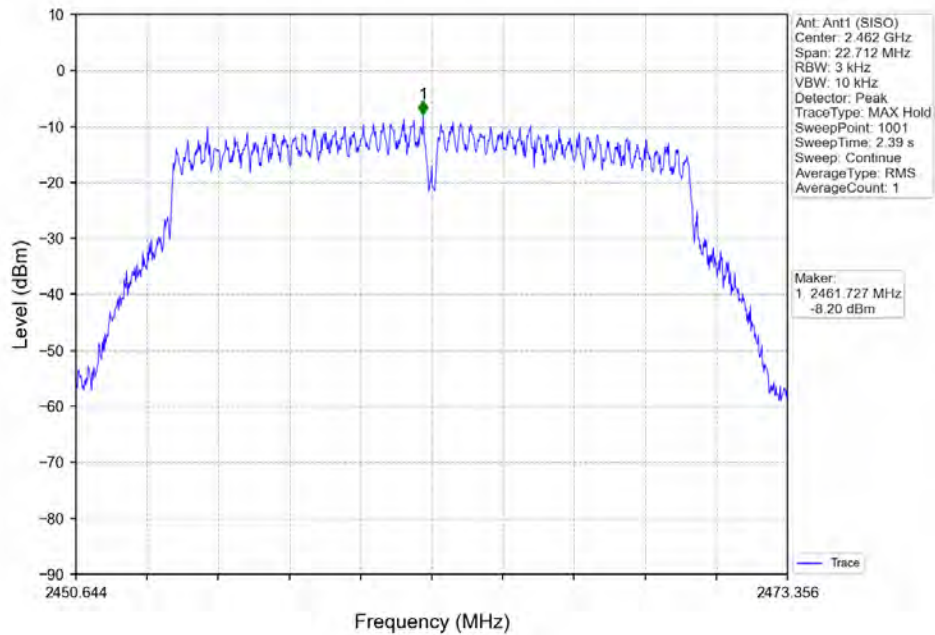
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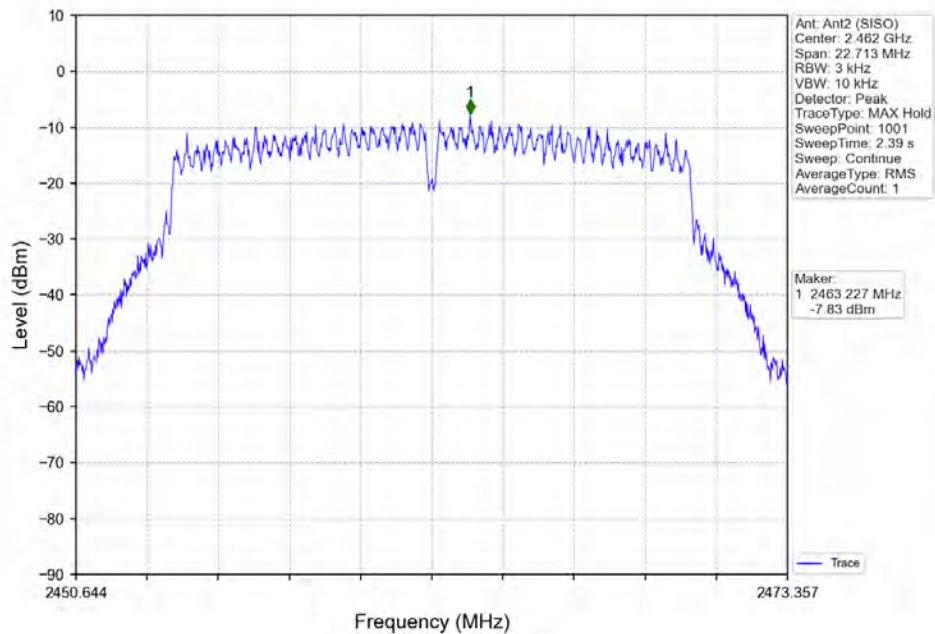
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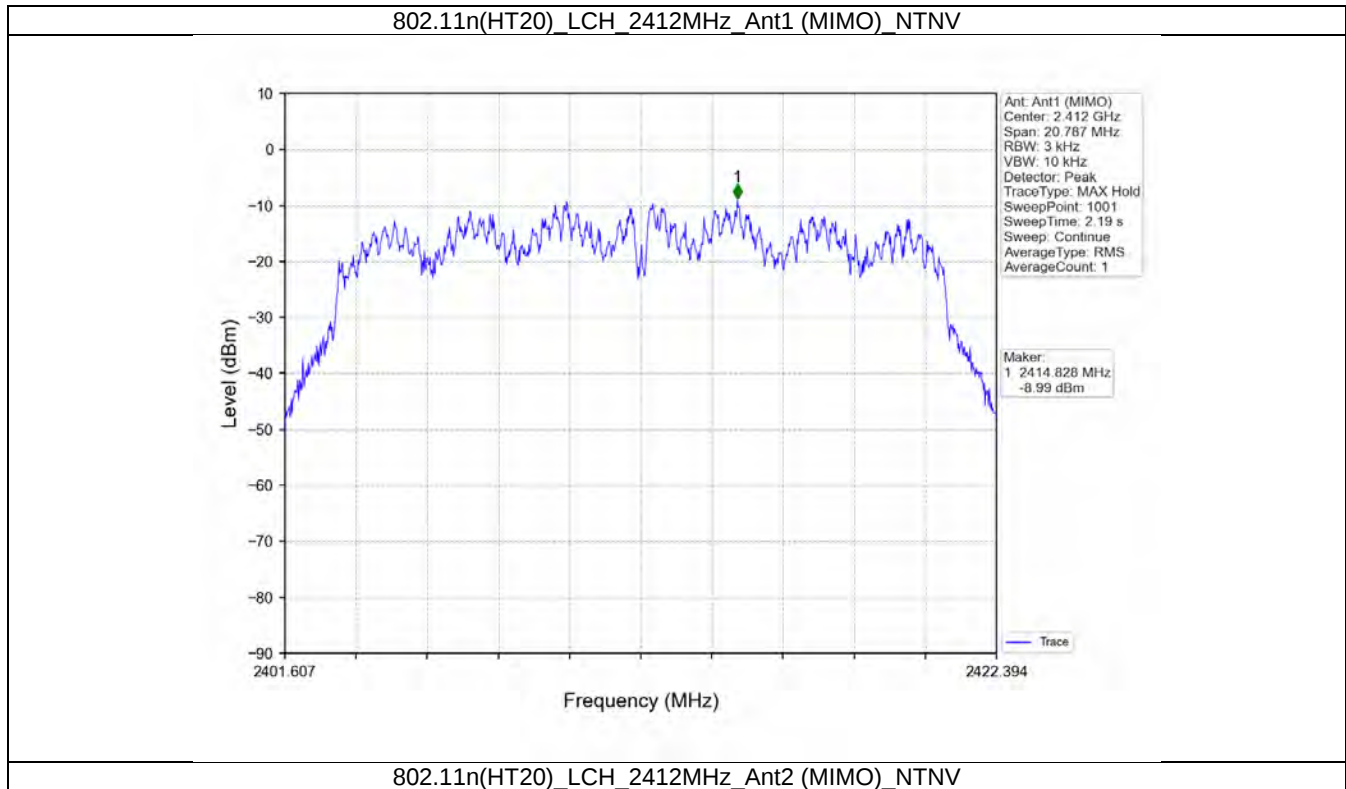
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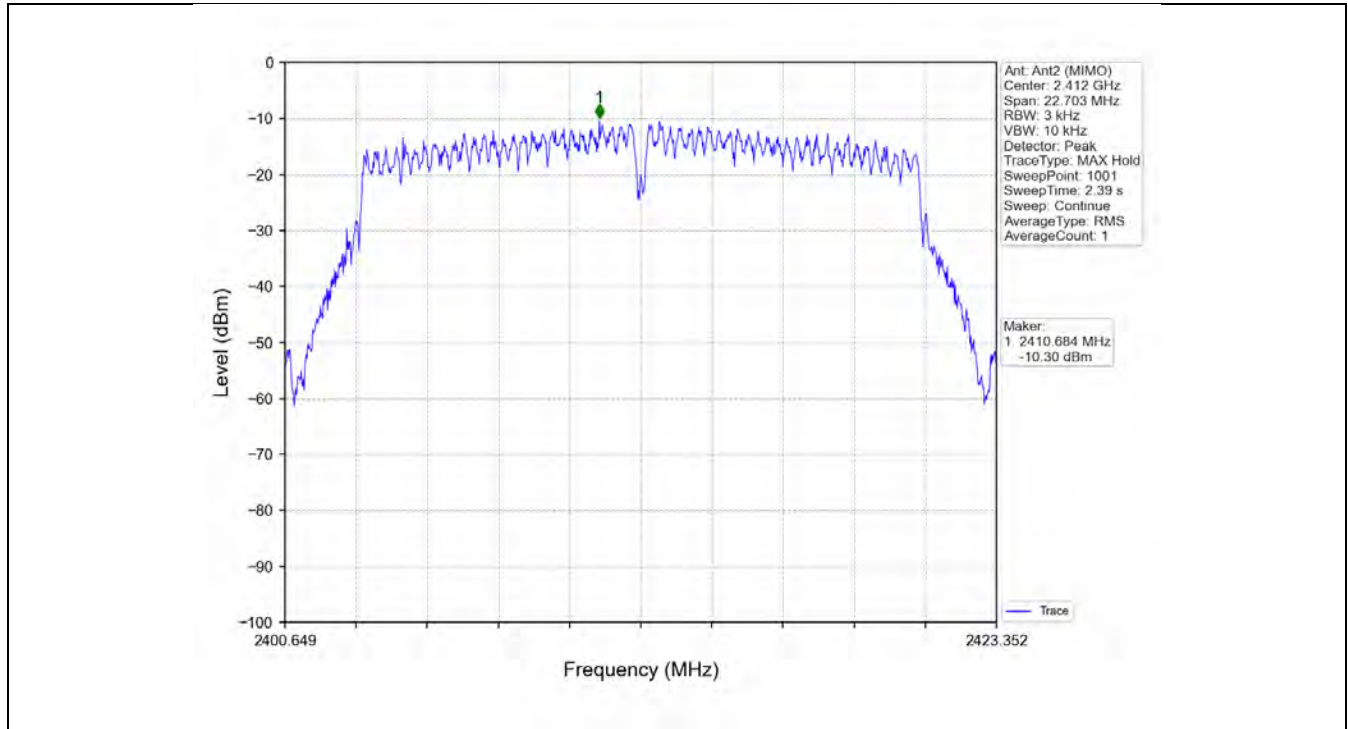
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802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



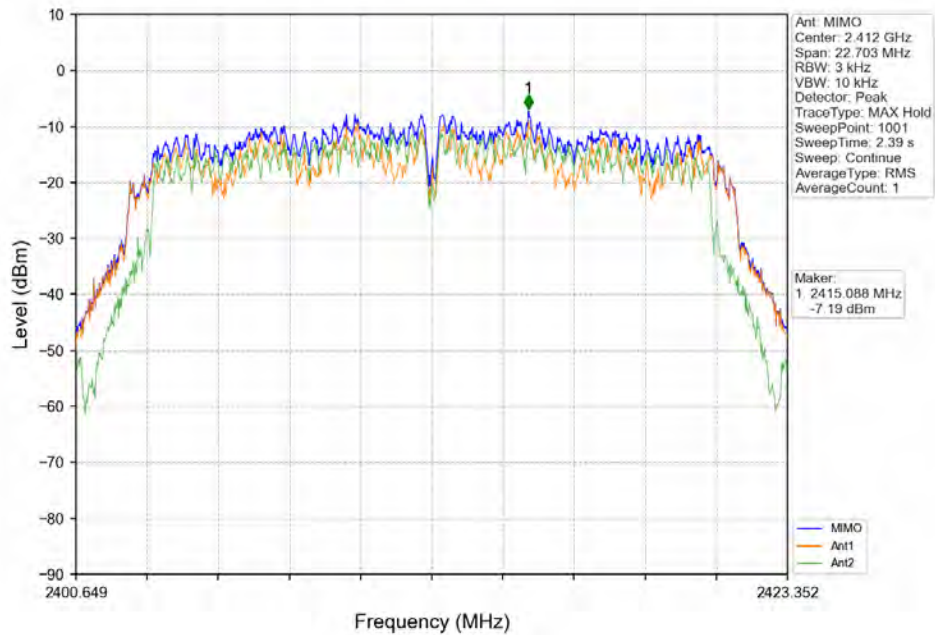
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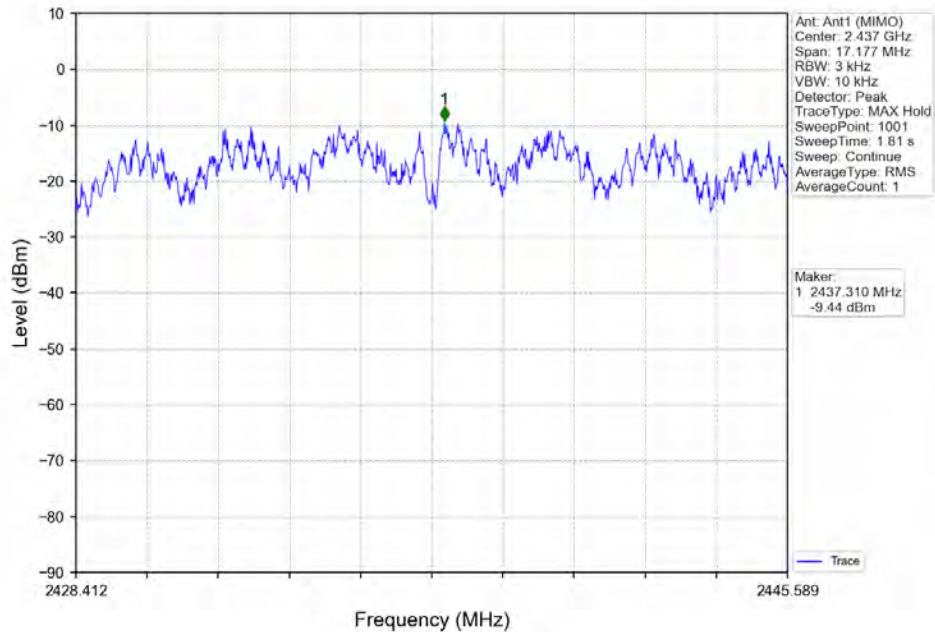
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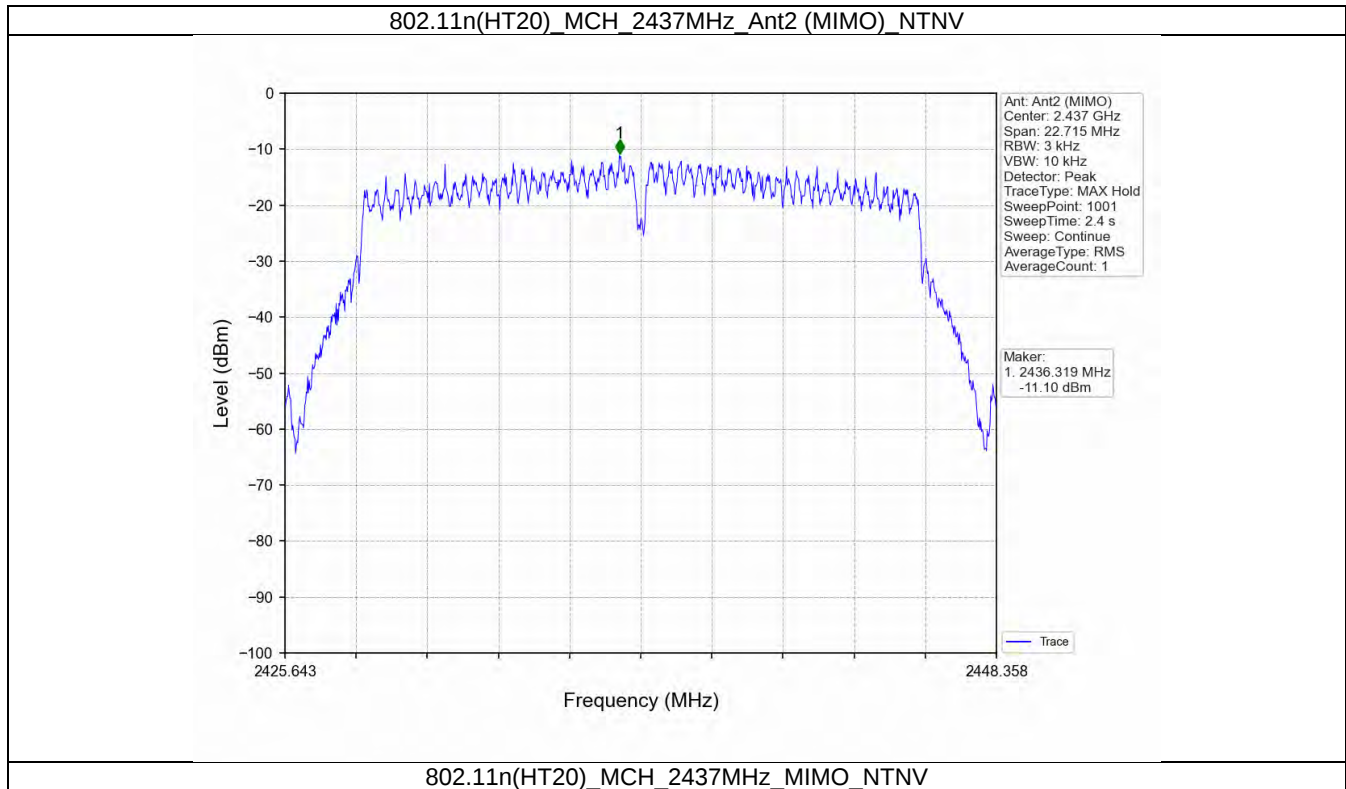
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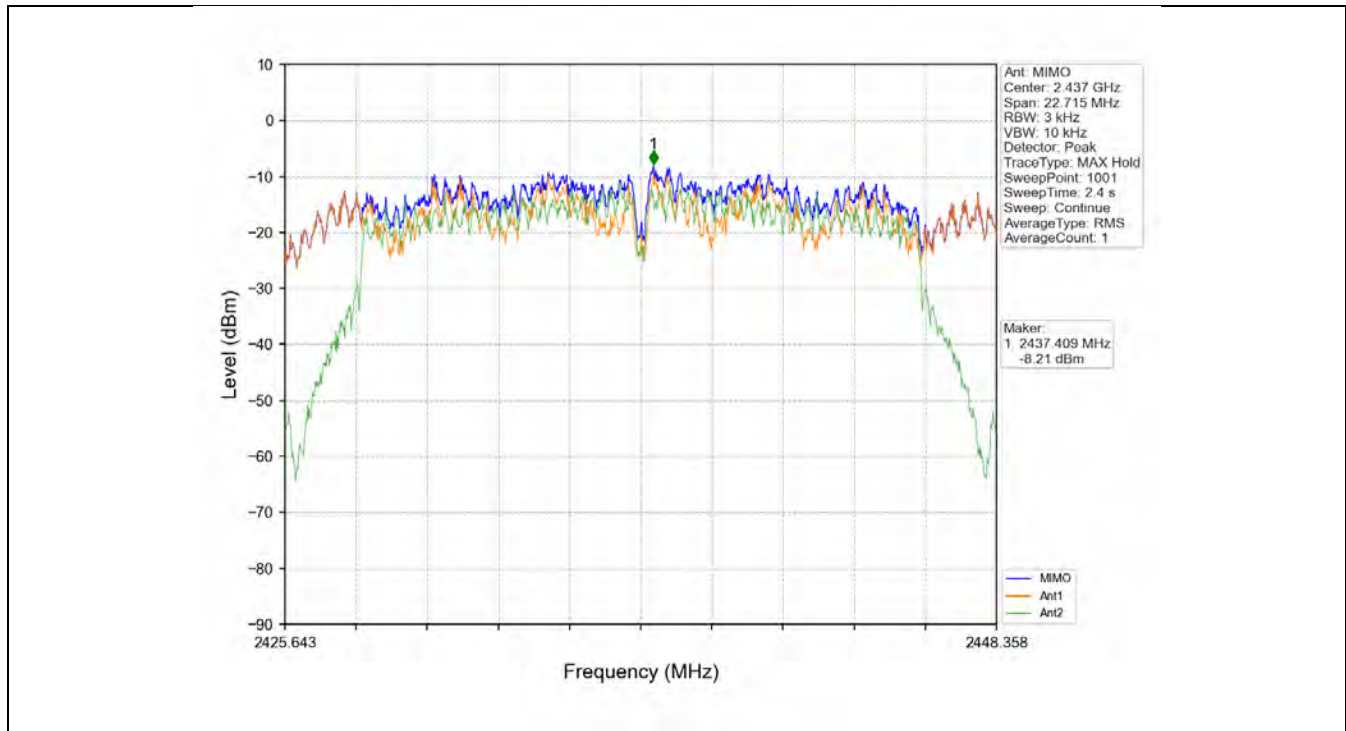
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNV



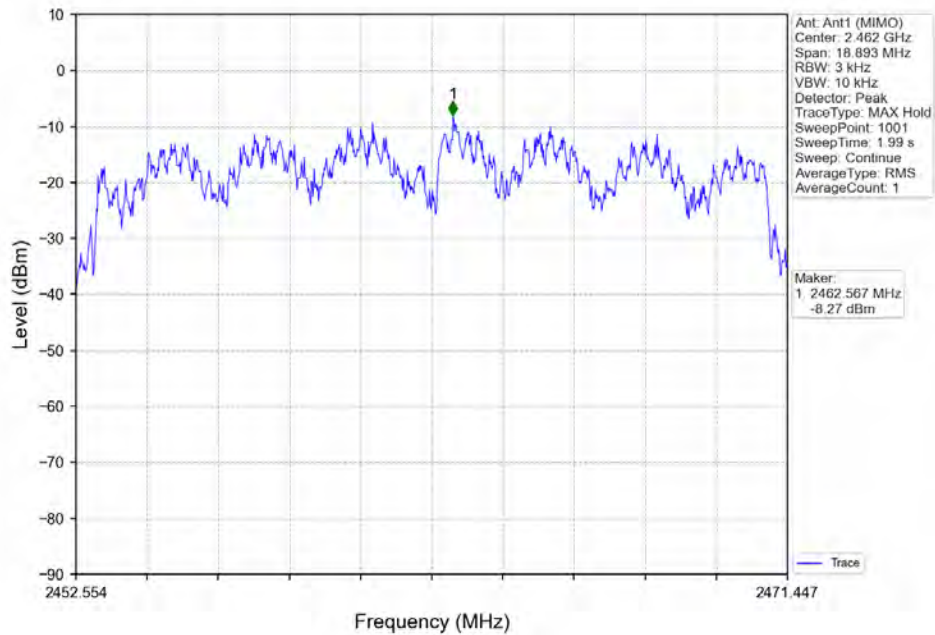
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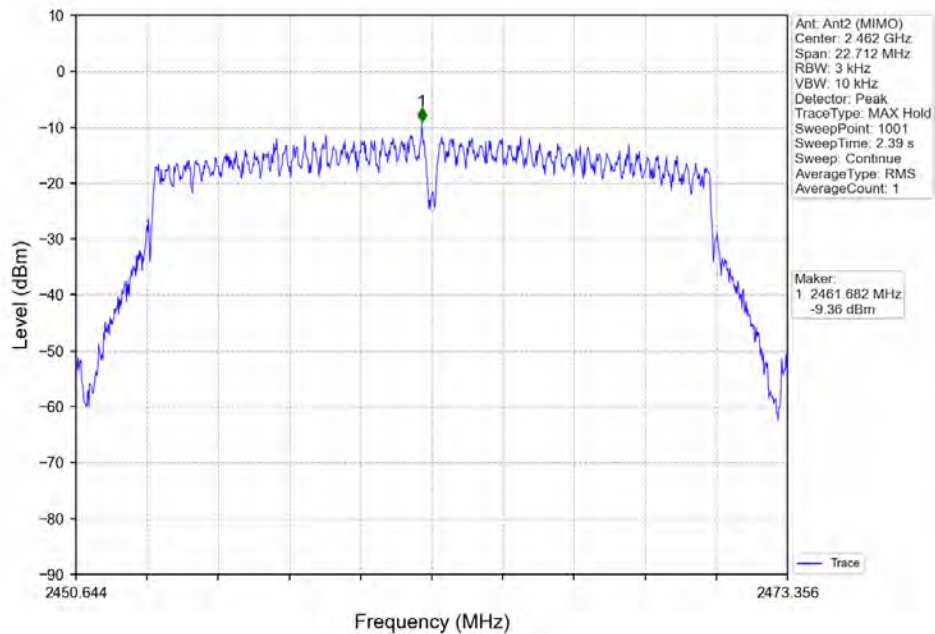
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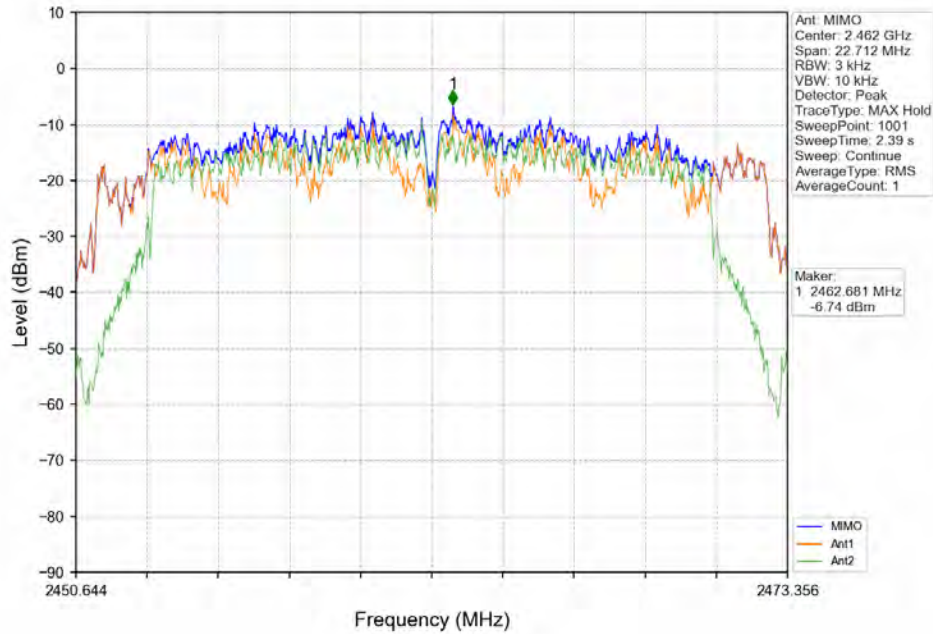
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	9.33
			2	9.04
		2437	1	8.46
			2	8.32
		2462	1	8.26
			2	9.40
802.11g	SISO	2412	1	9.29
			2	8.37
		2437	1	7.35
			2	6.79
		2462	1	7.11
			2	7.58
802.11n (HT20)	MIMO	2412	1	6.21
			2	6.18
		2437	1	6.64
			2	4.78
		2462	1	7.31
			2	5.44

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.



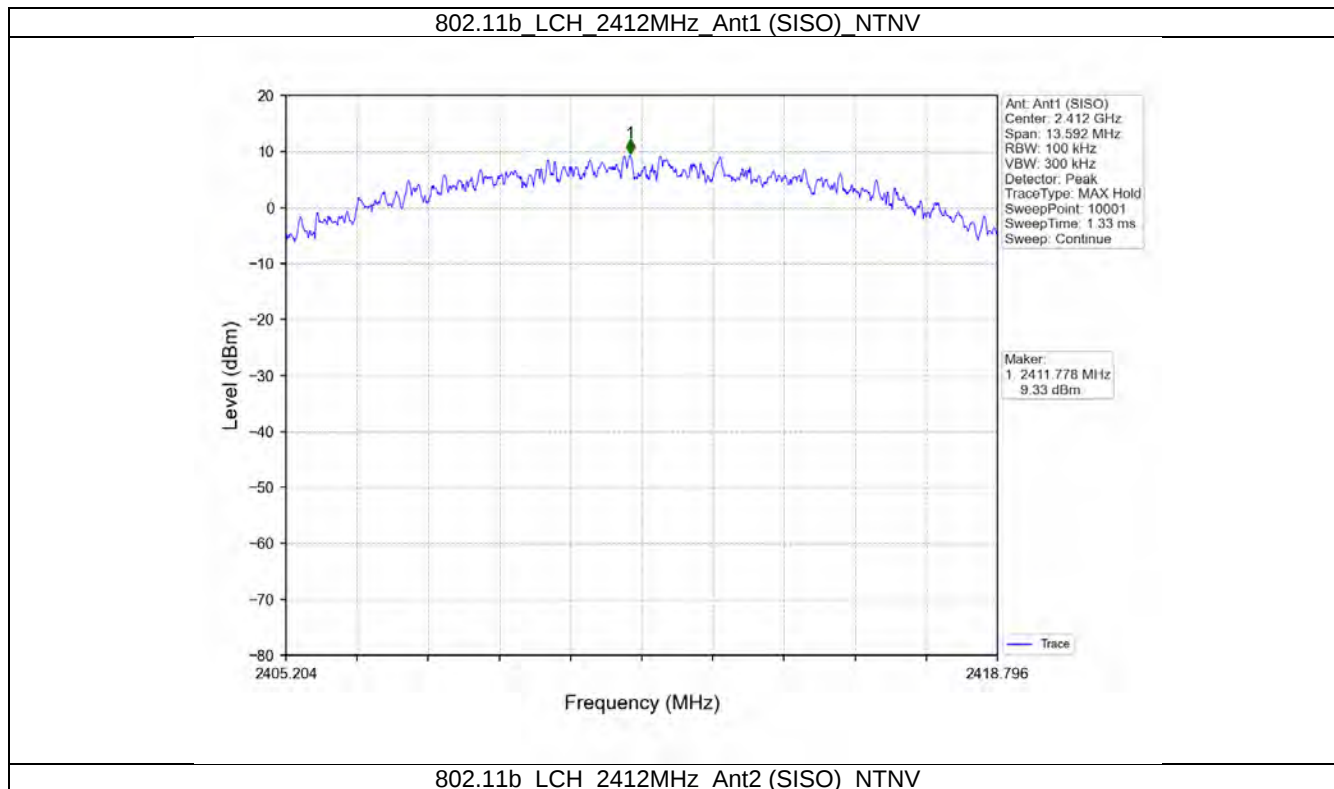
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5.1.2 Test Graph



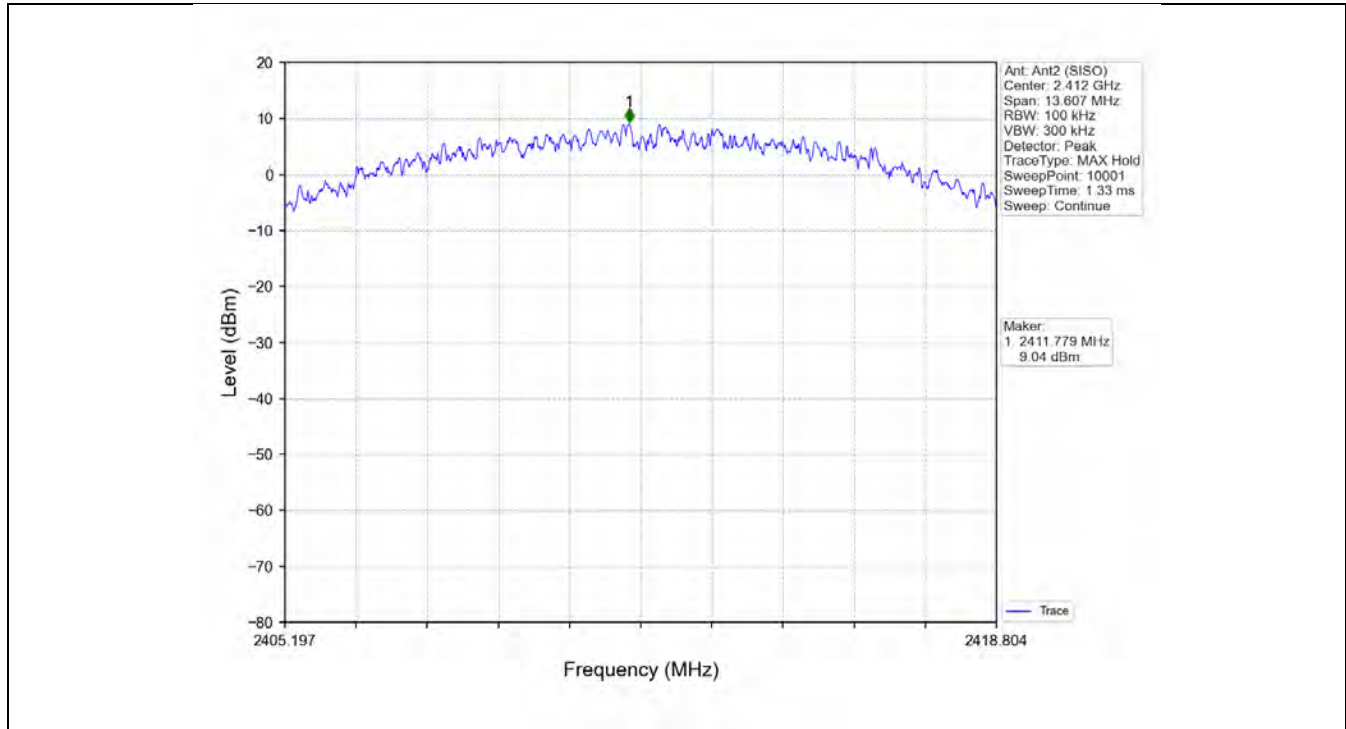
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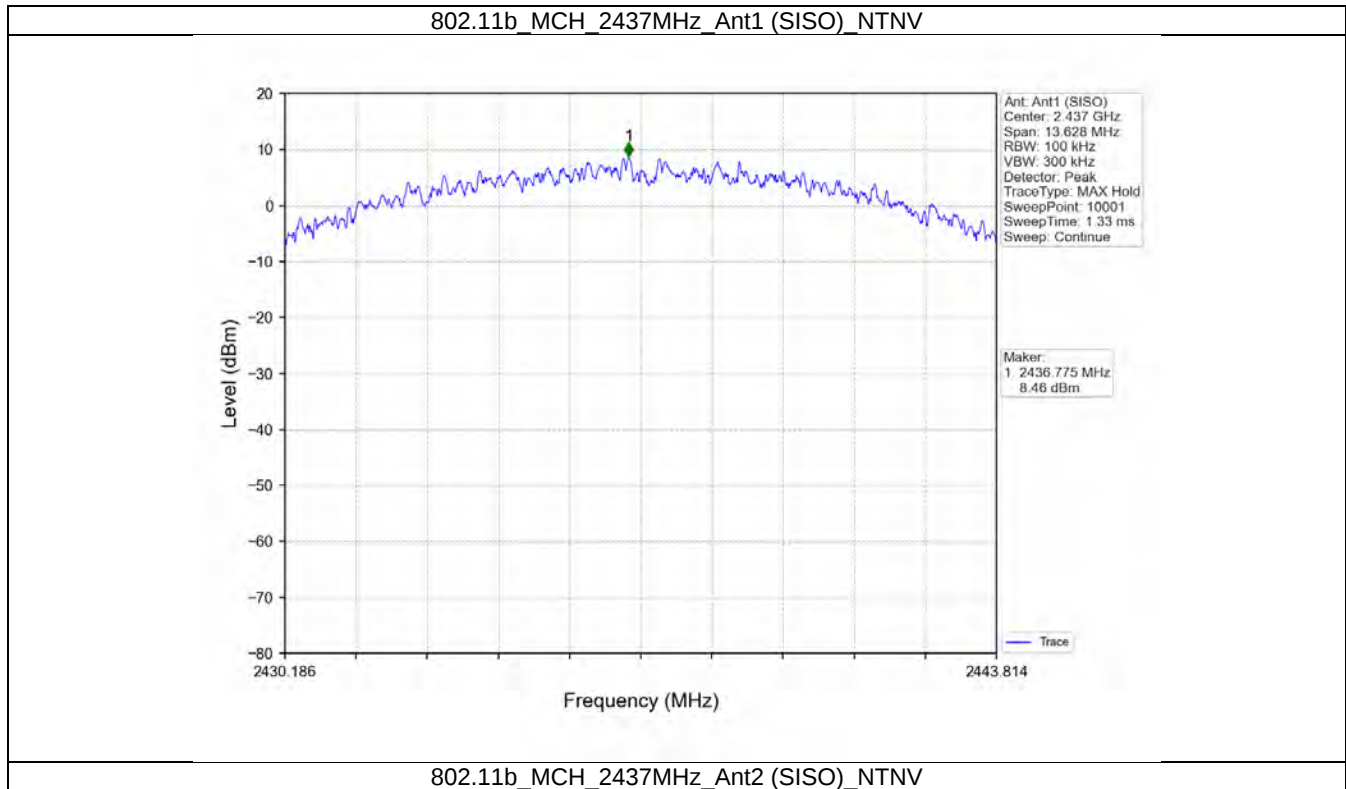


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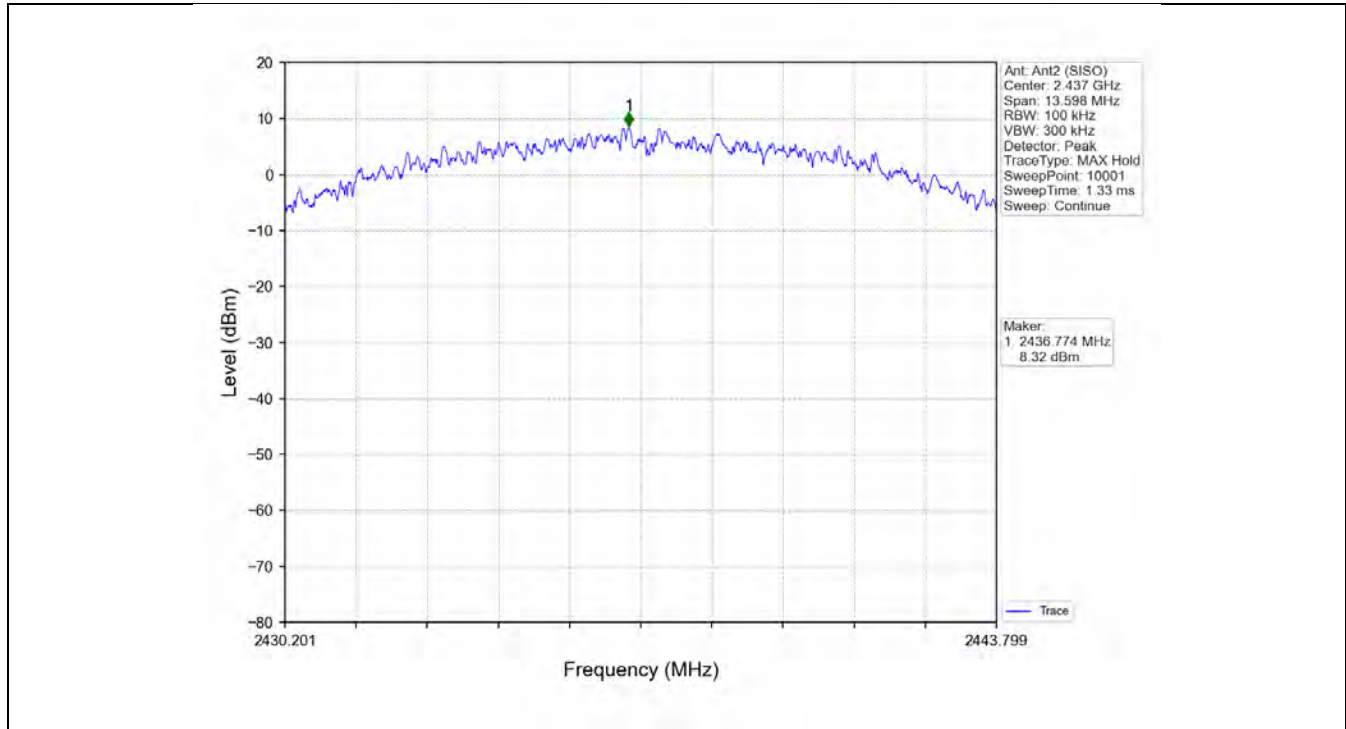
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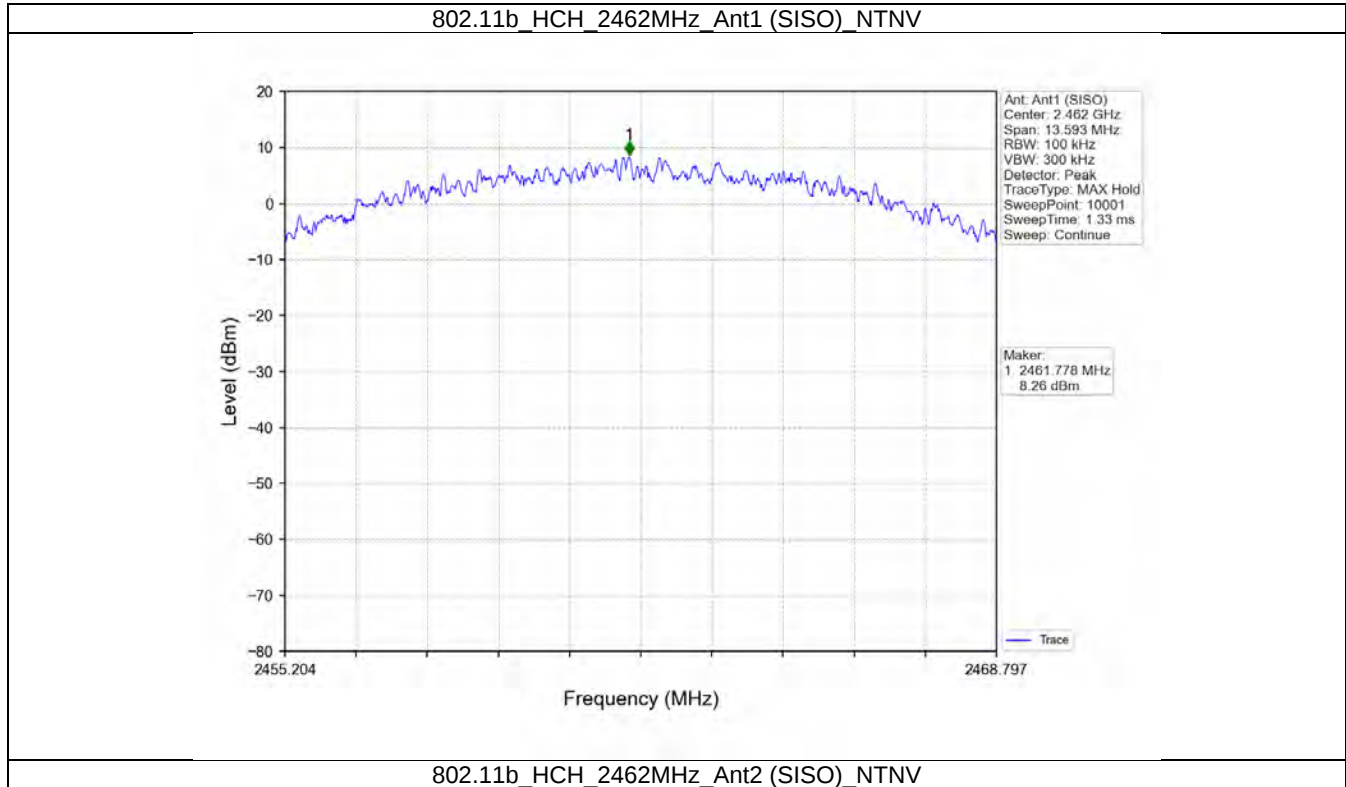
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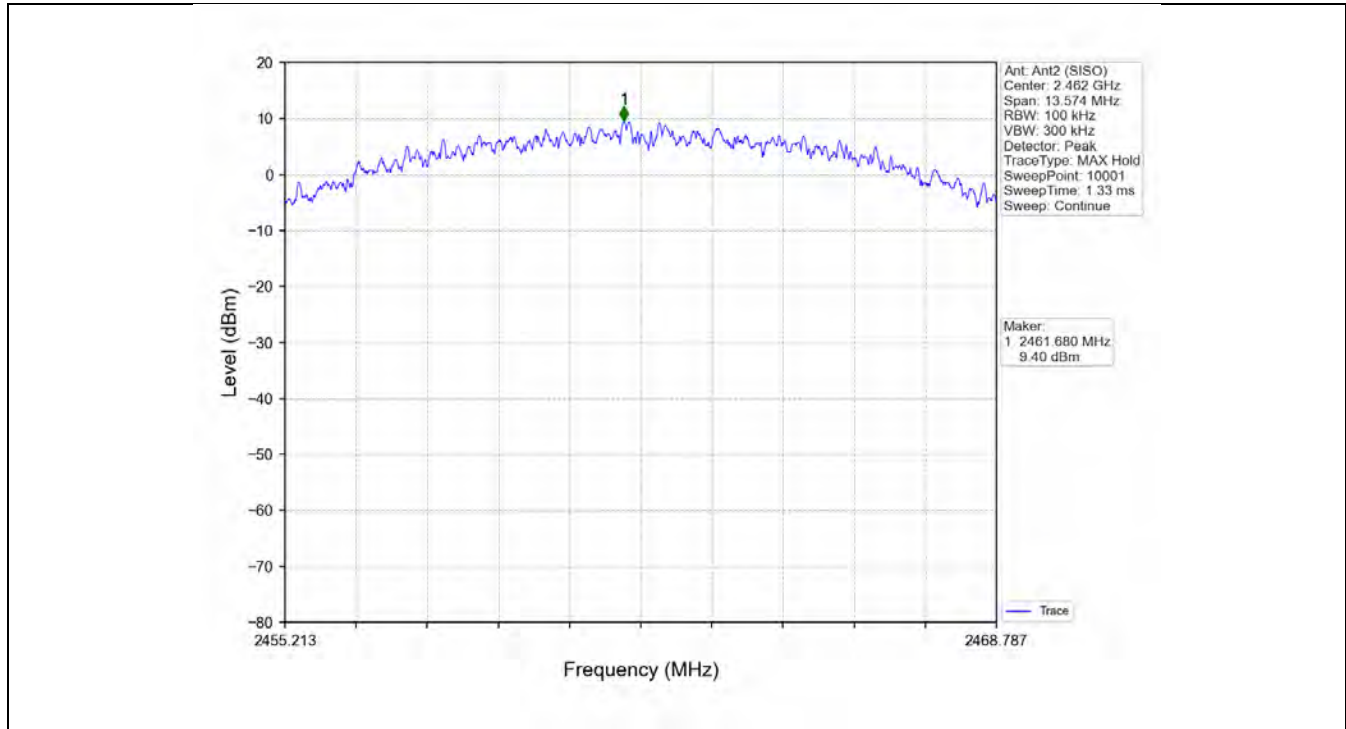
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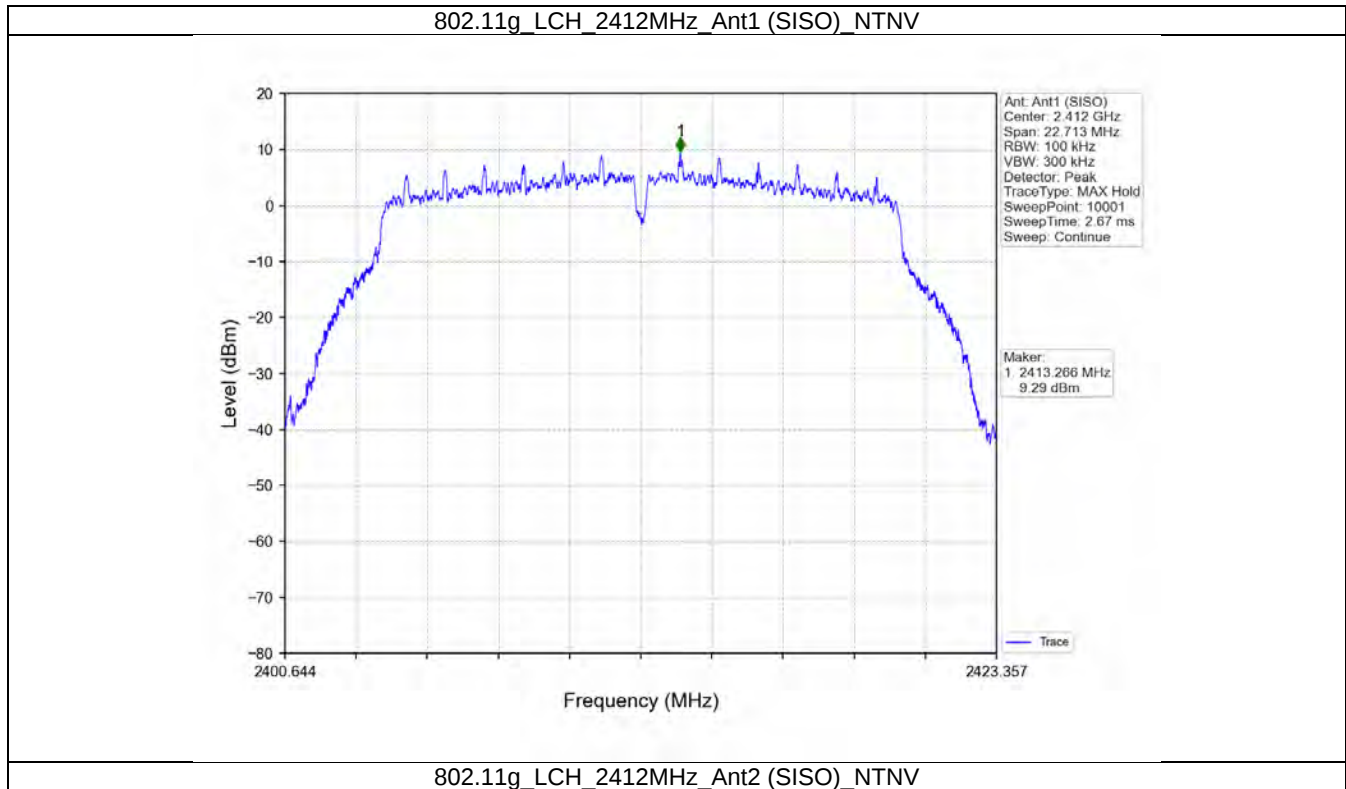
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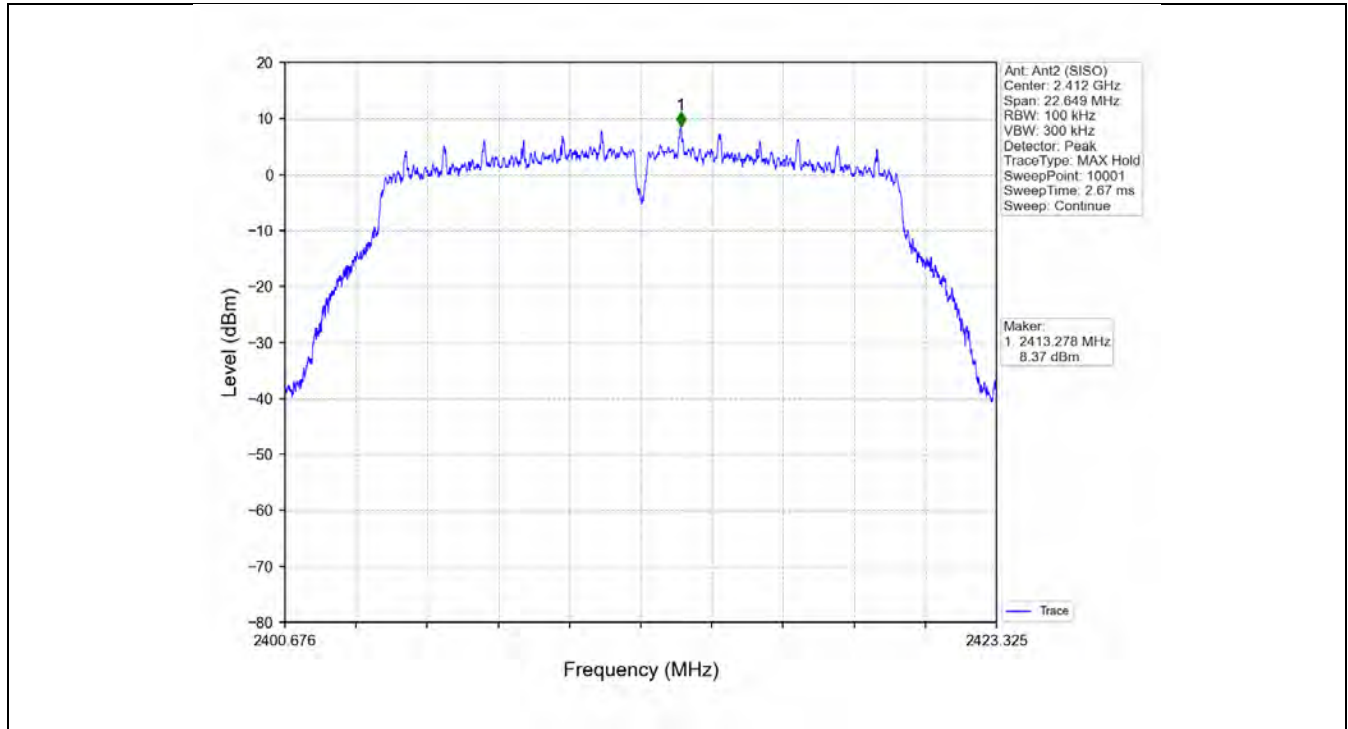
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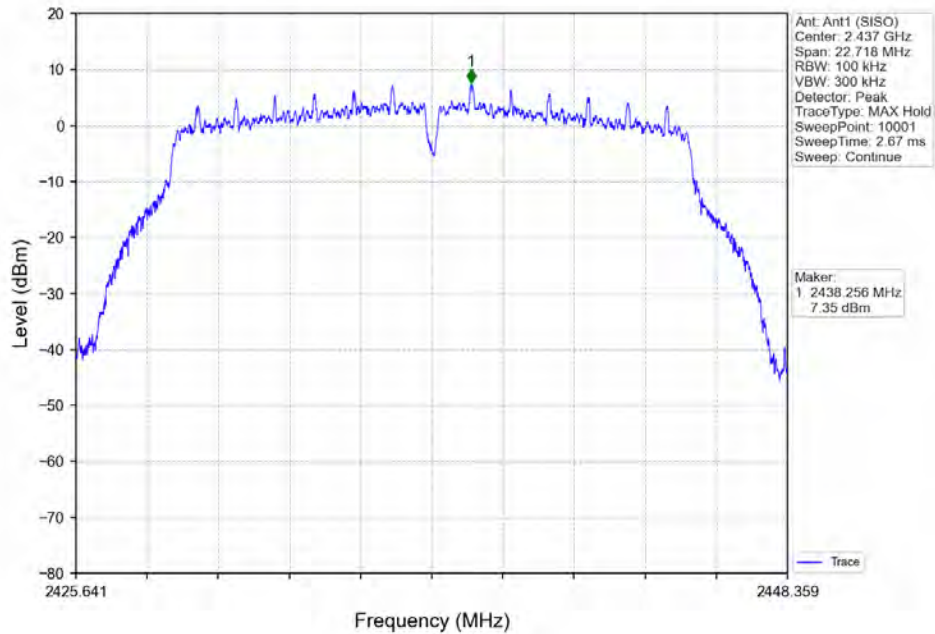
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



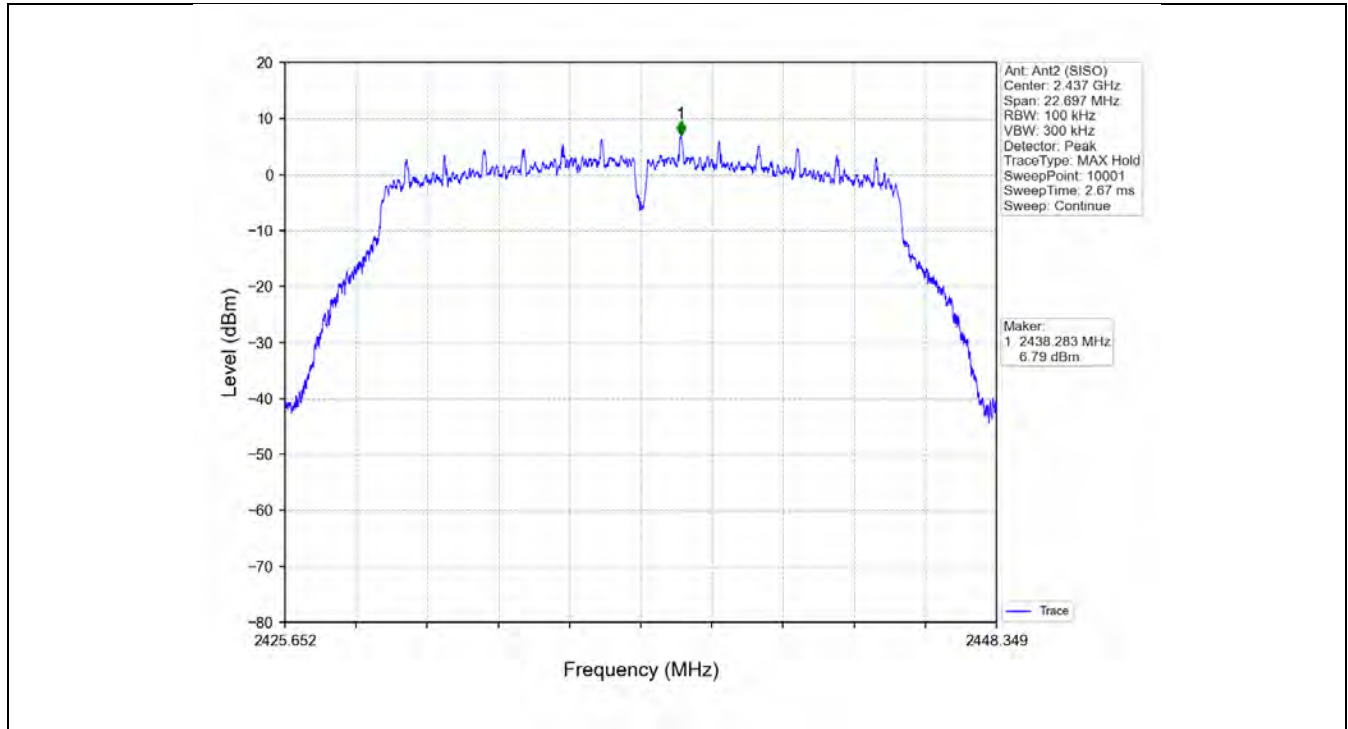
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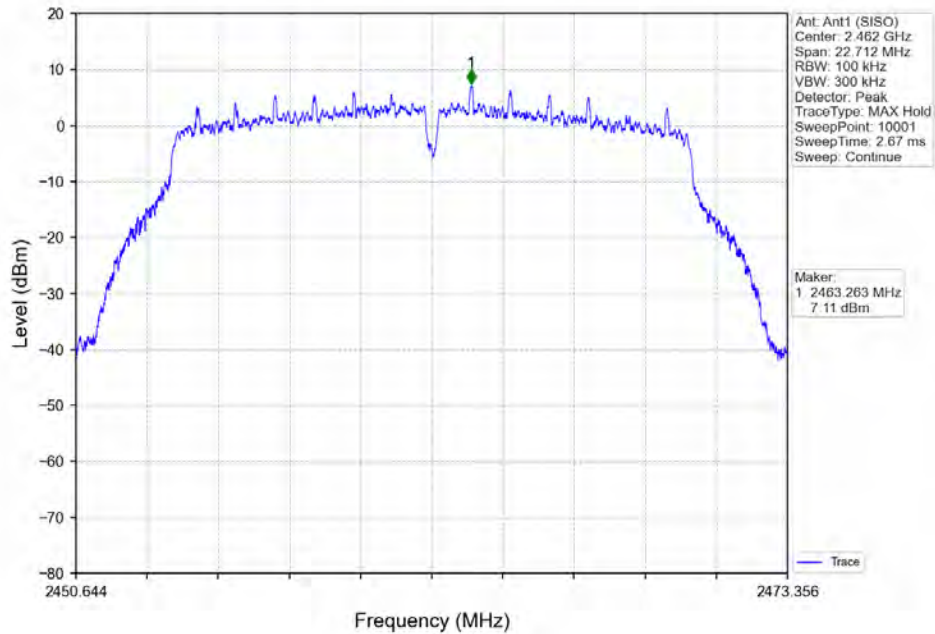
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



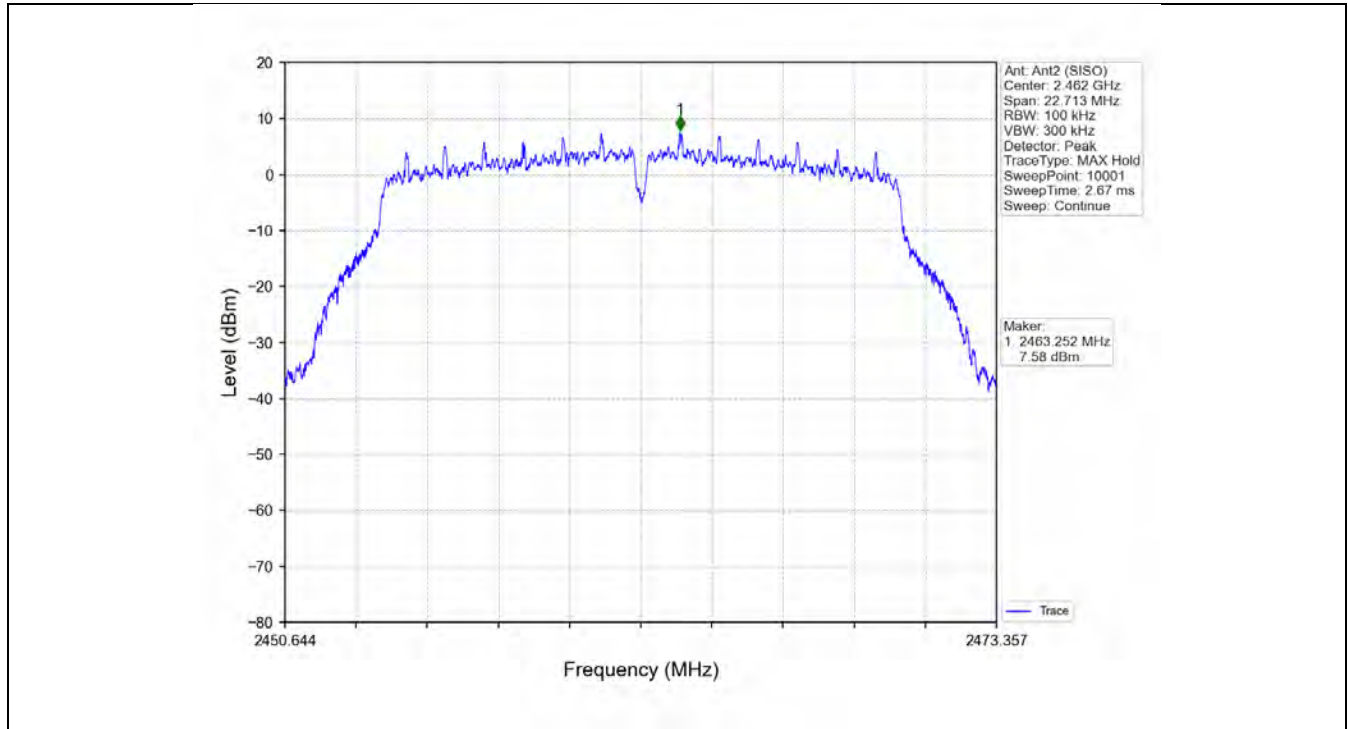
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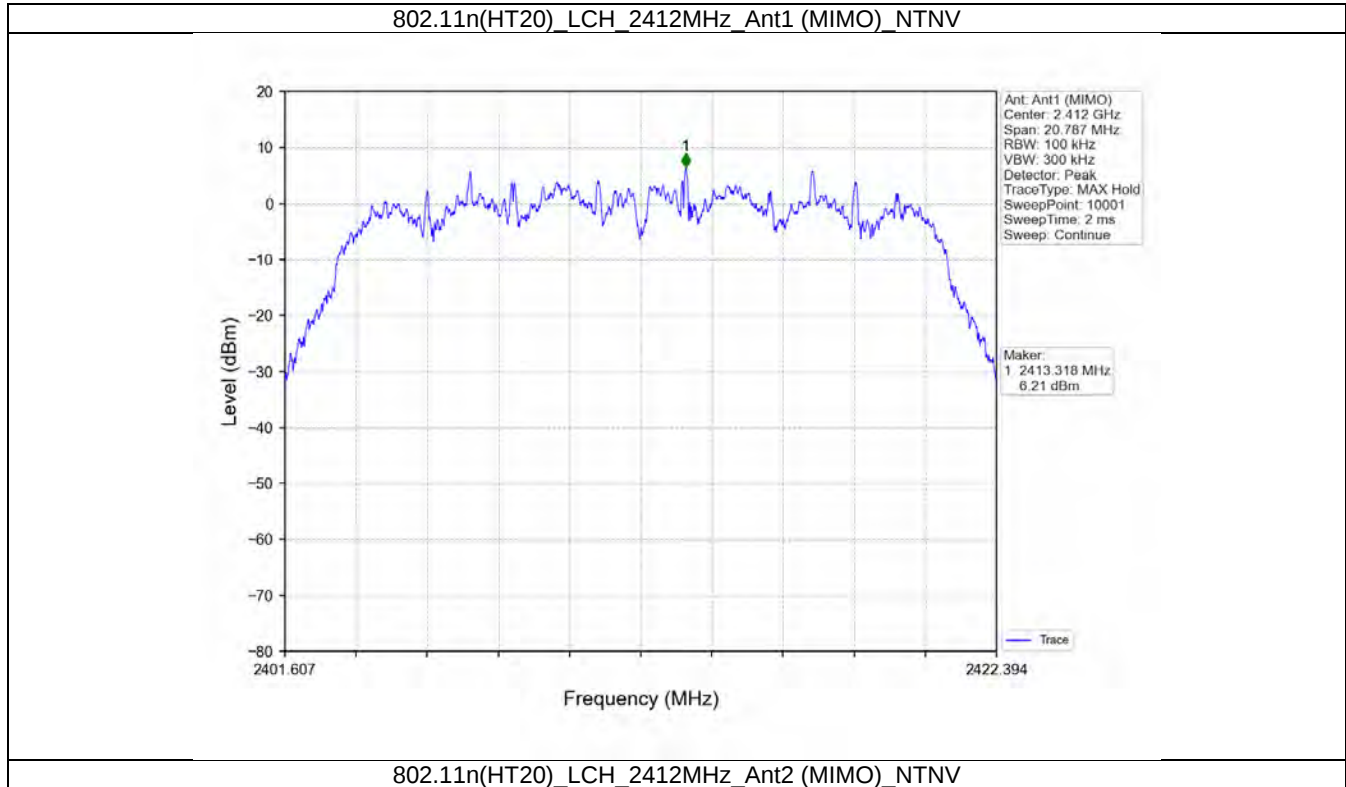
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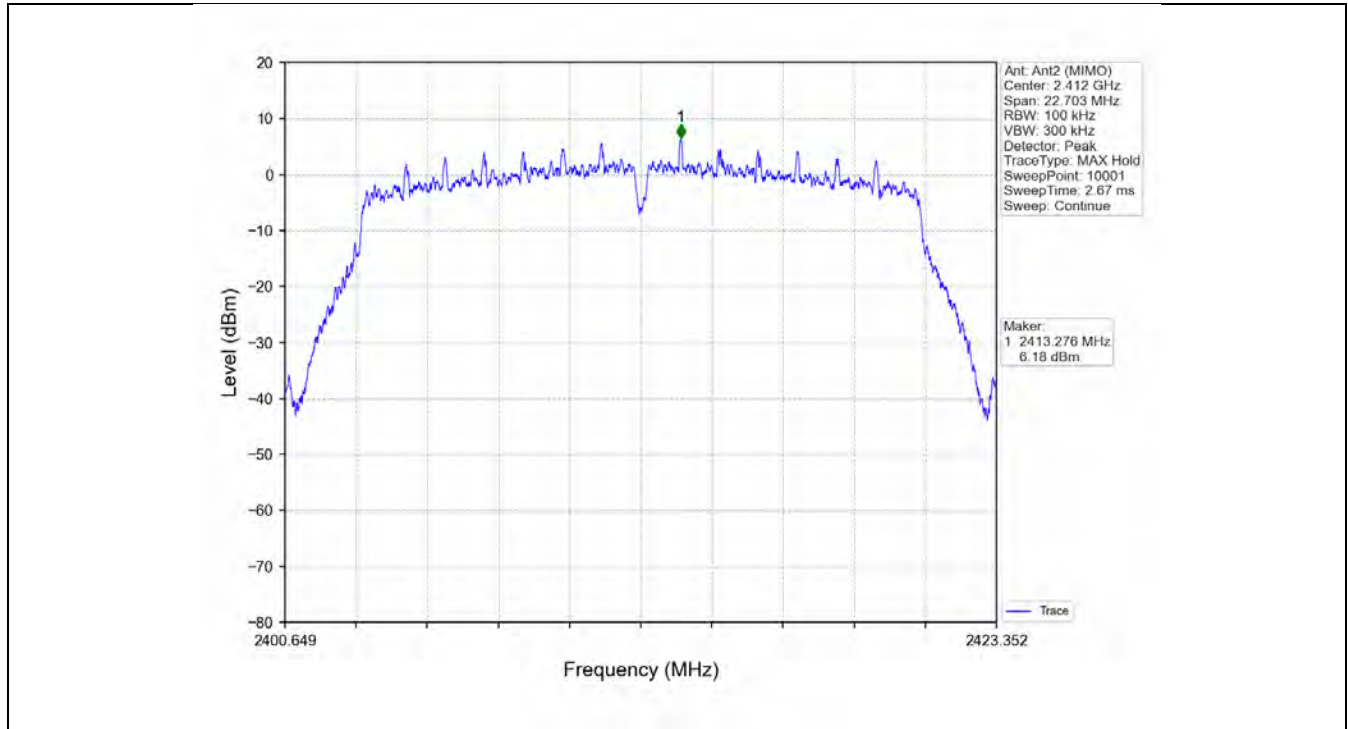
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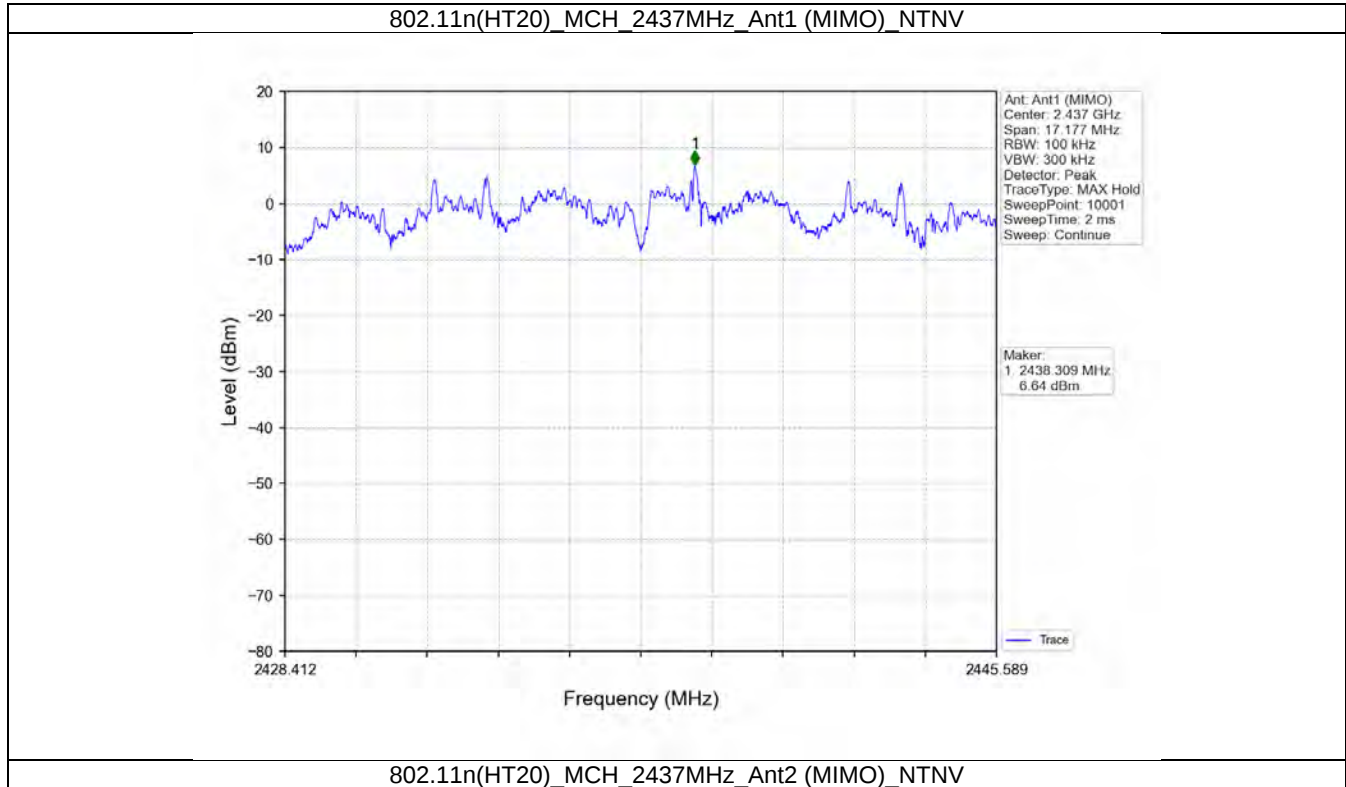
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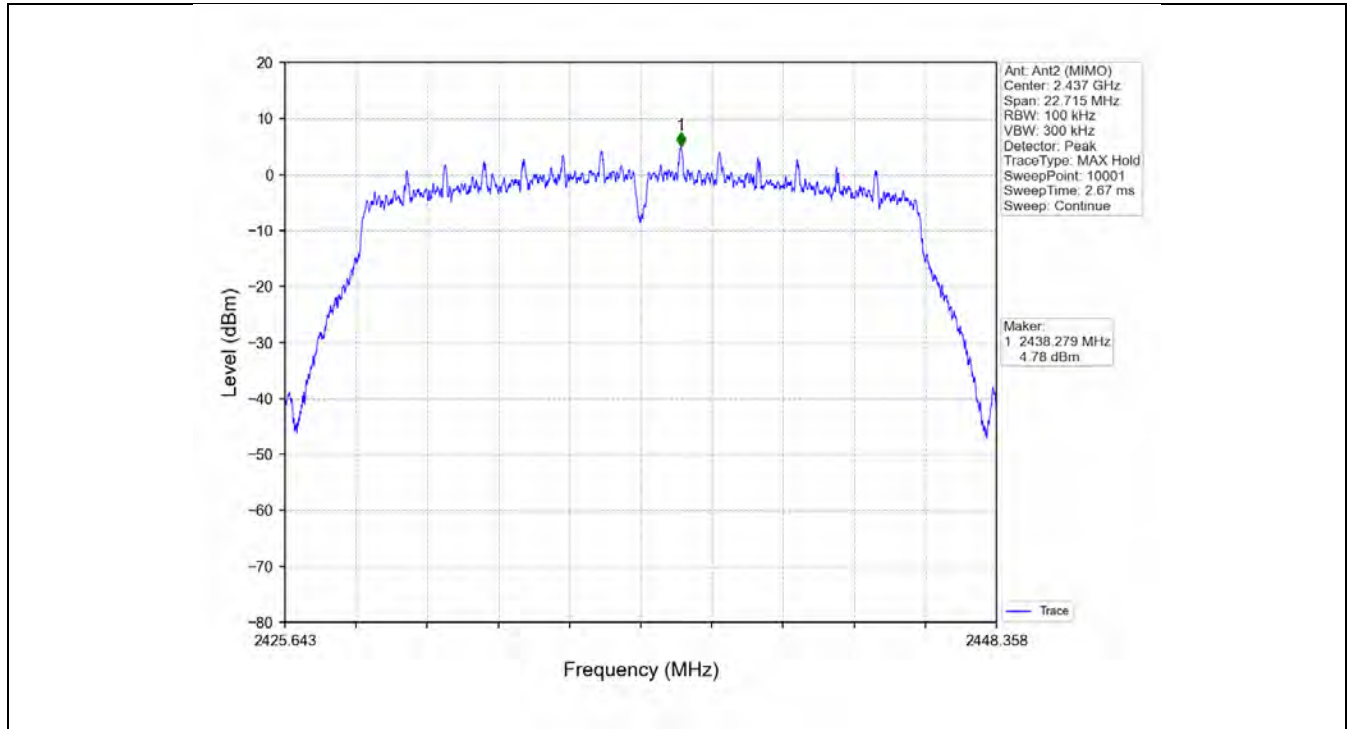
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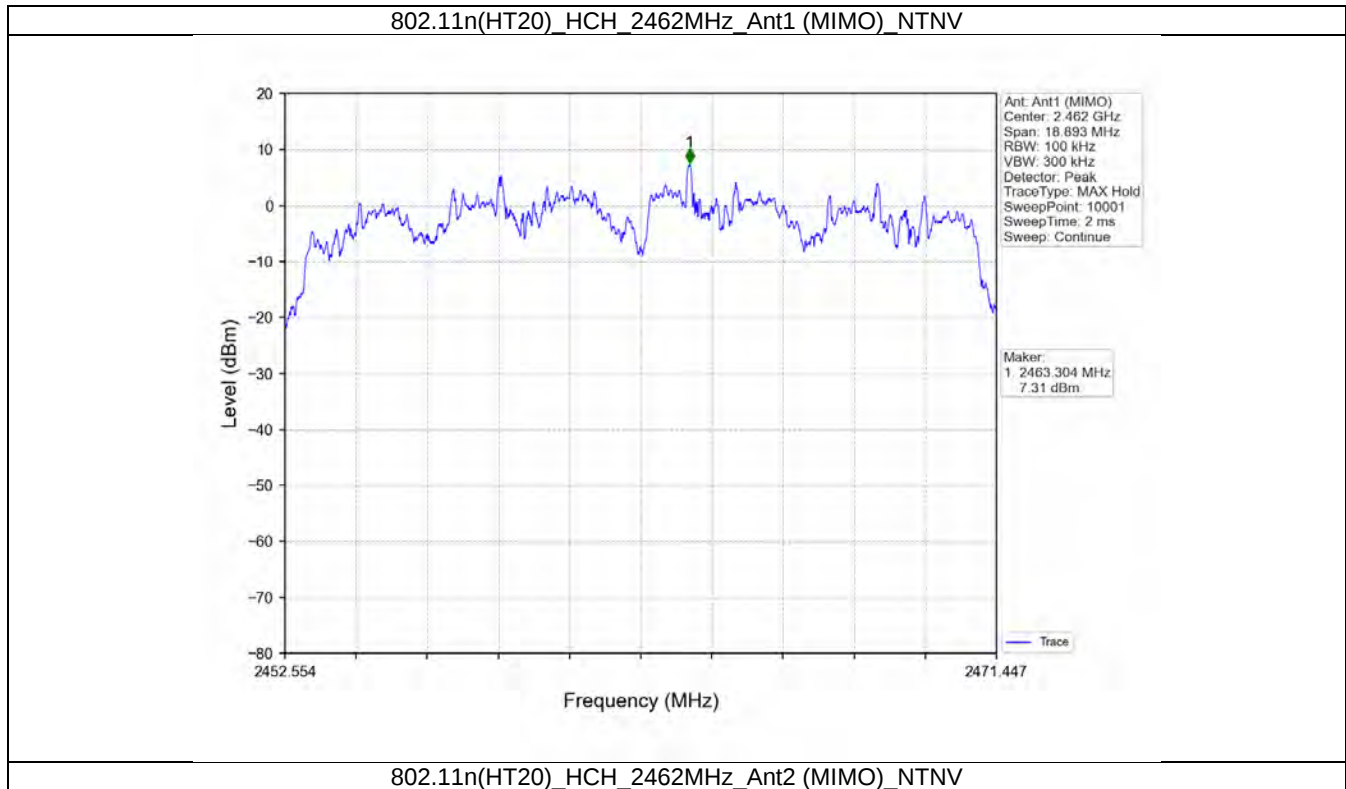
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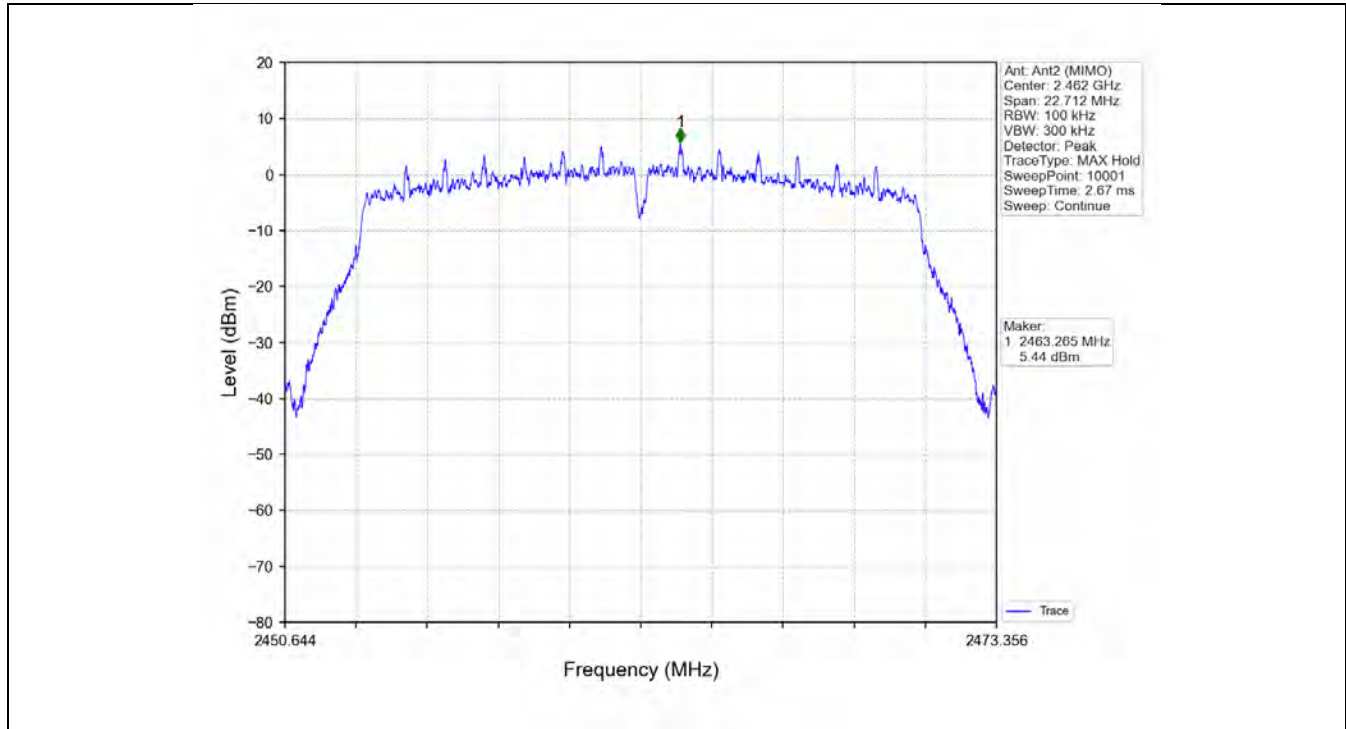
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	9.33	-20.67	Pass
			2	9.40	-20.60	Pass
		2437	1	9.33	-20.67	Pass
			2	9.40	-20.60	Pass
		2462	1	9.33	-20.67	Pass
			2	9.40	-20.60	Pass
802.11g	SISO	2412	1	9.29	-20.71	Pass
			2	8.37	-21.63	Pass
		2437	1	9.29	-20.71	Pass
			2	8.37	-21.63	Pass
		2462	1	9.29	-20.71	Pass
			2	8.37	-21.63	Pass
802.11n (HT20)	MIMO	2412	1	7.31	-22.69	Pass
			2	6.18	-23.82	Pass
		2437	1	7.31	-22.69	Pass
			2	6.18	-23.82	Pass
		2462	1	7.31	-22.69	Pass
			2	6.18	-23.82	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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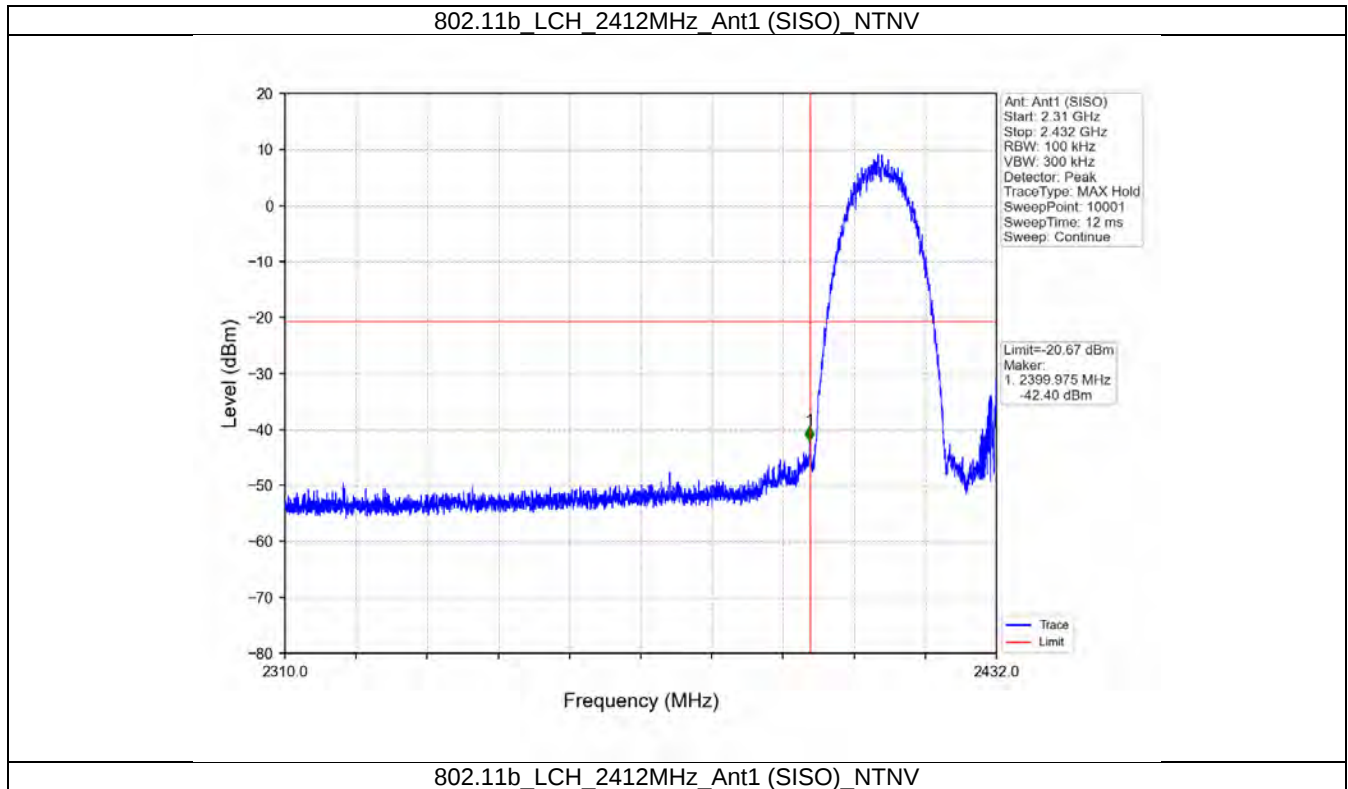
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5.2.2 Test Graph



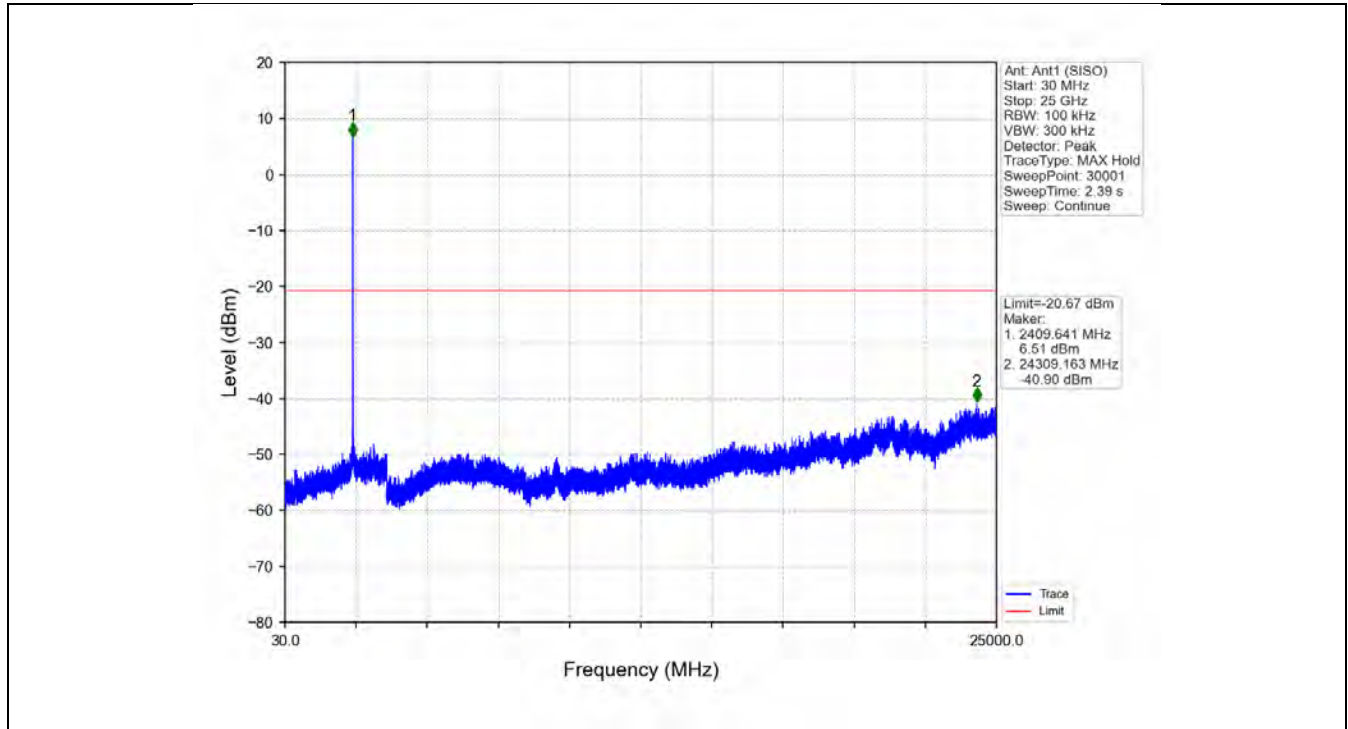
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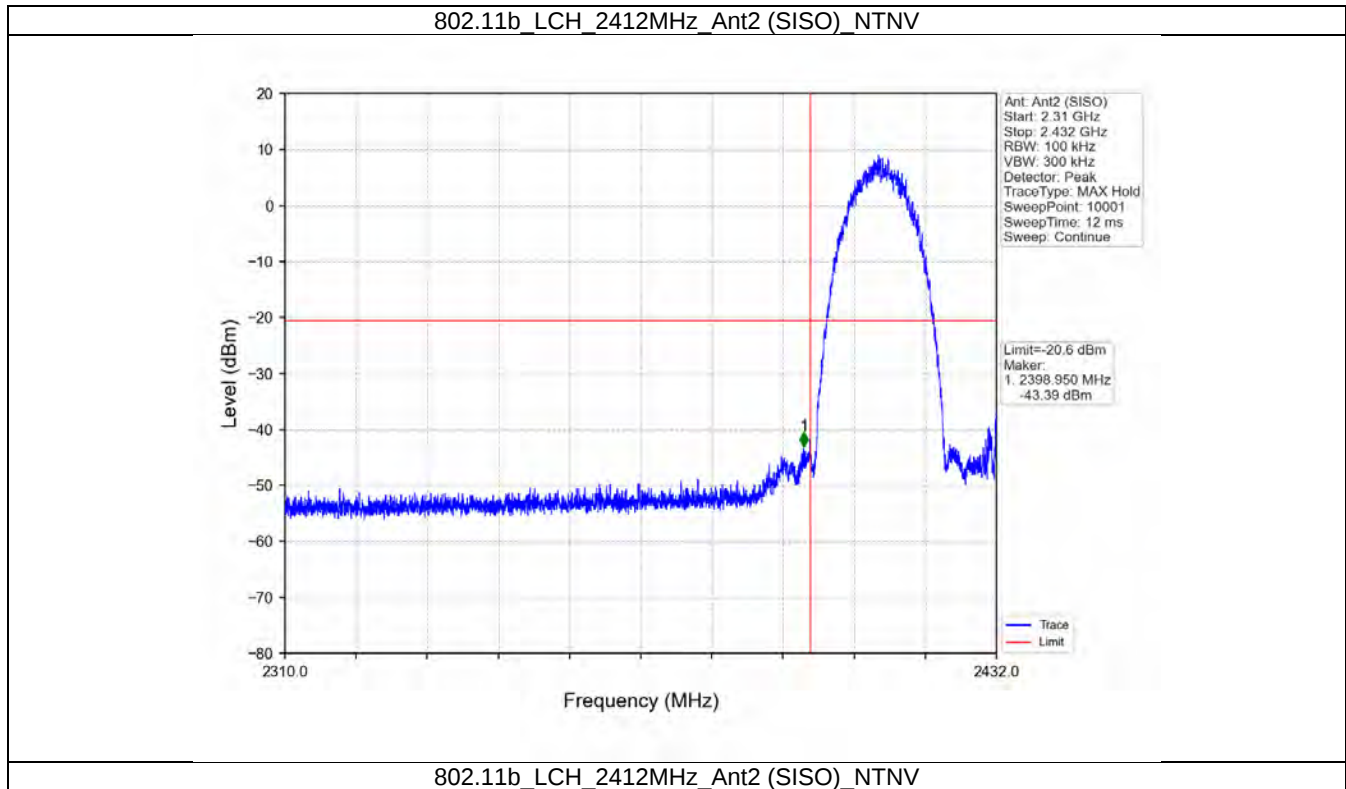
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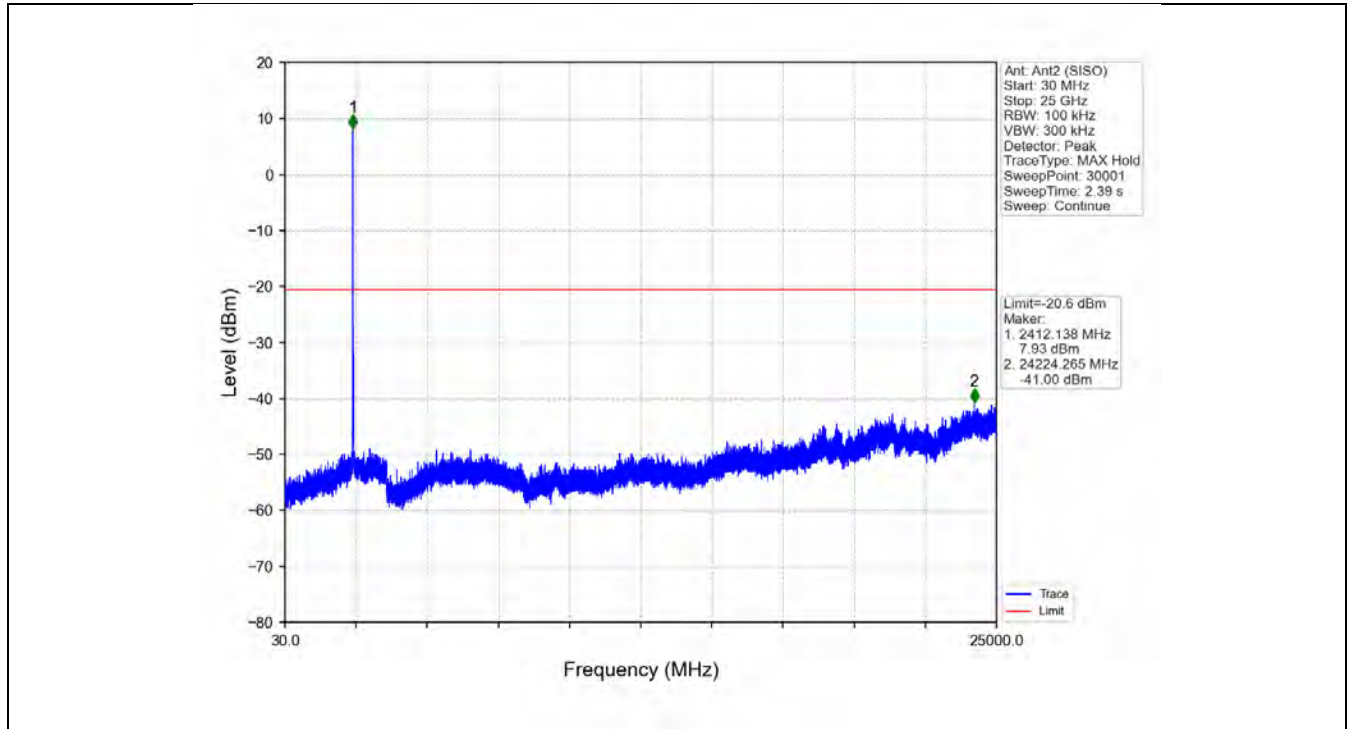
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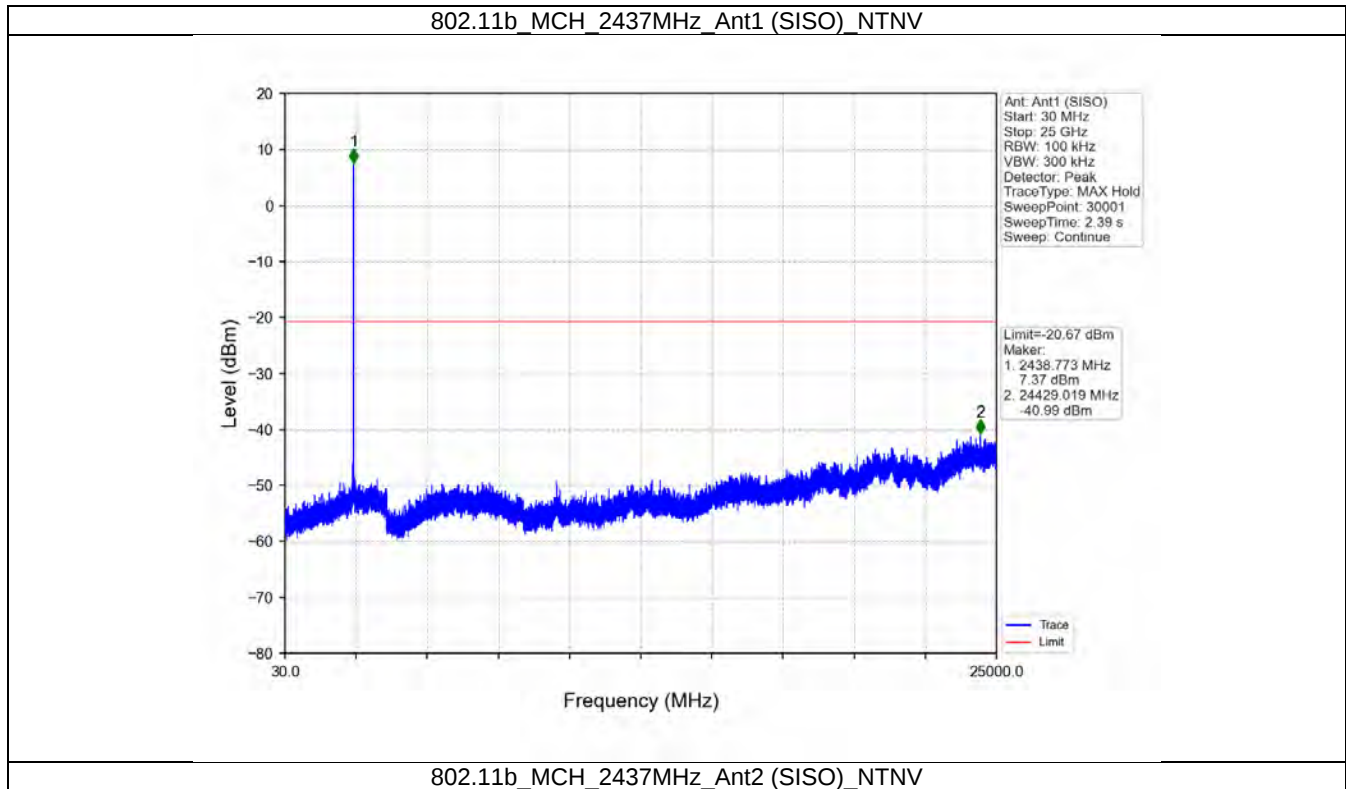
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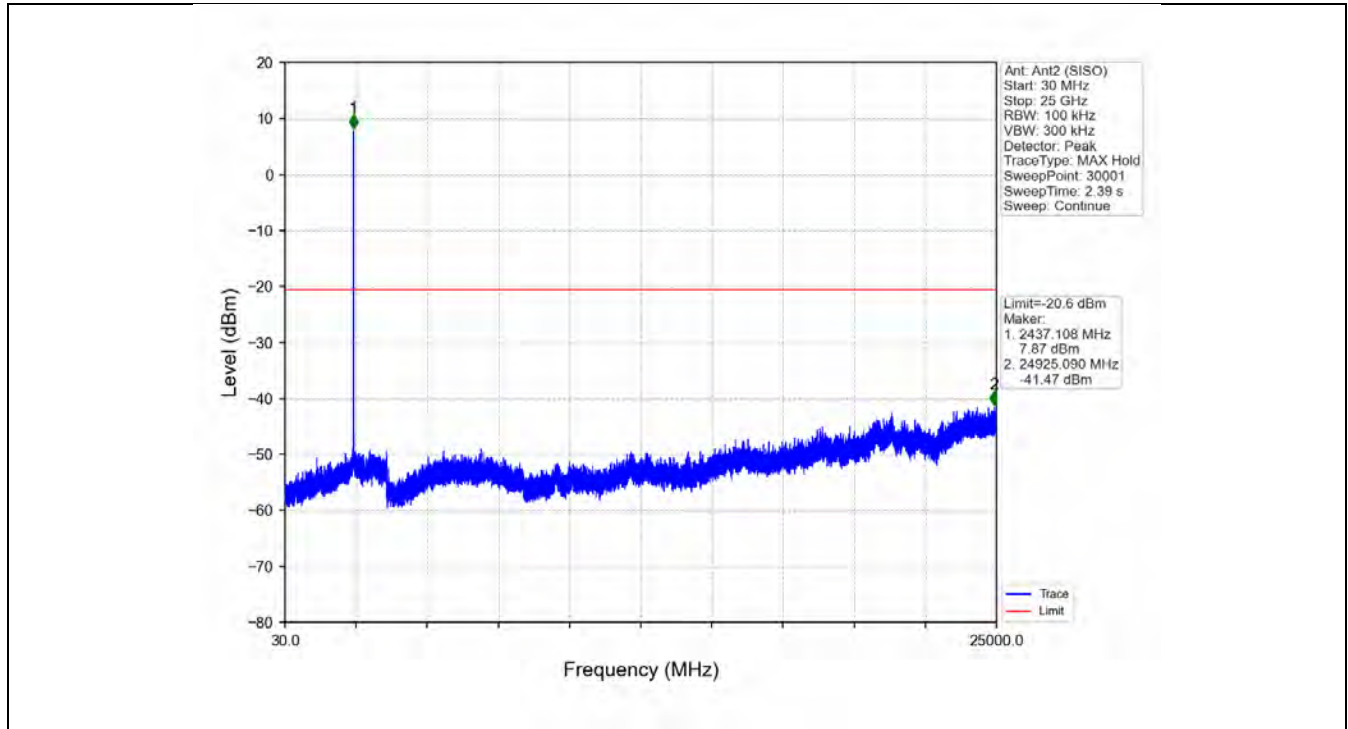
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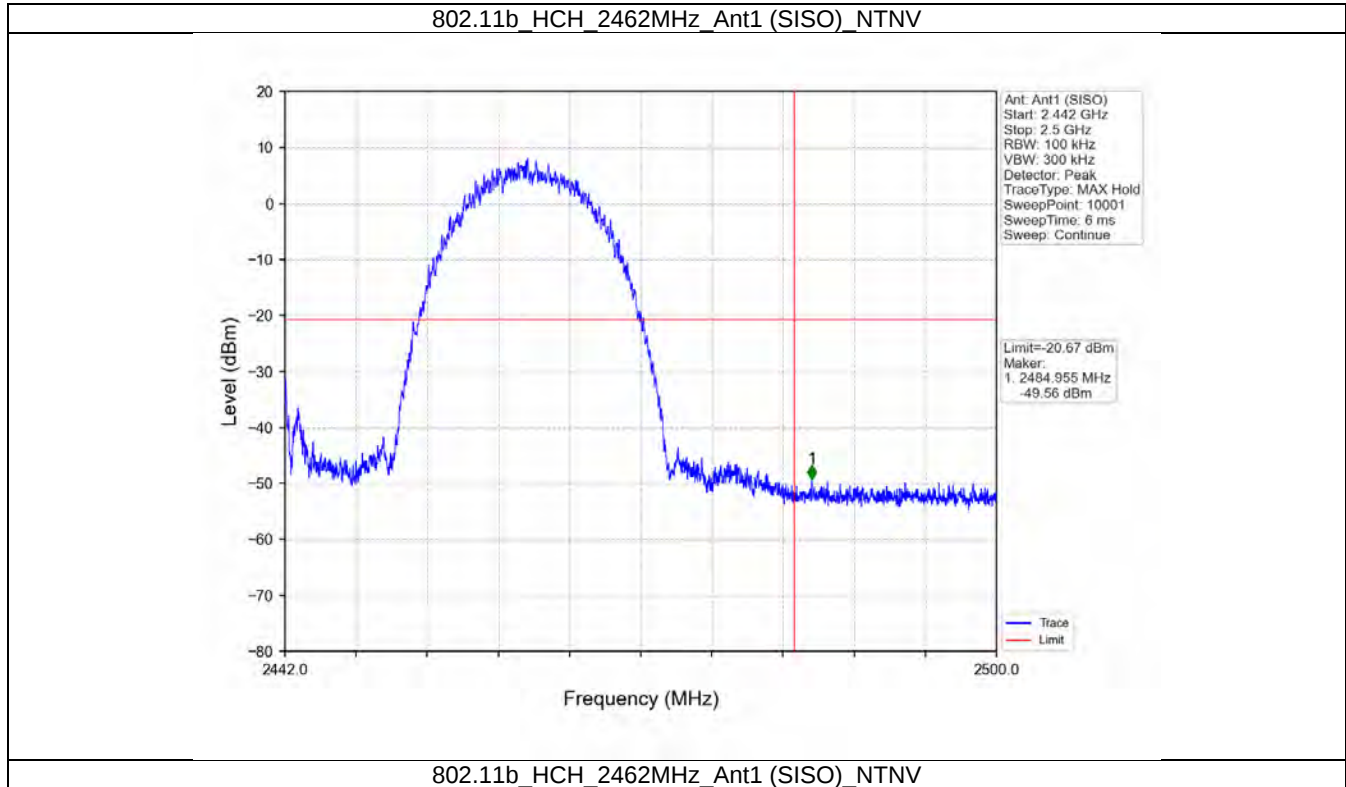
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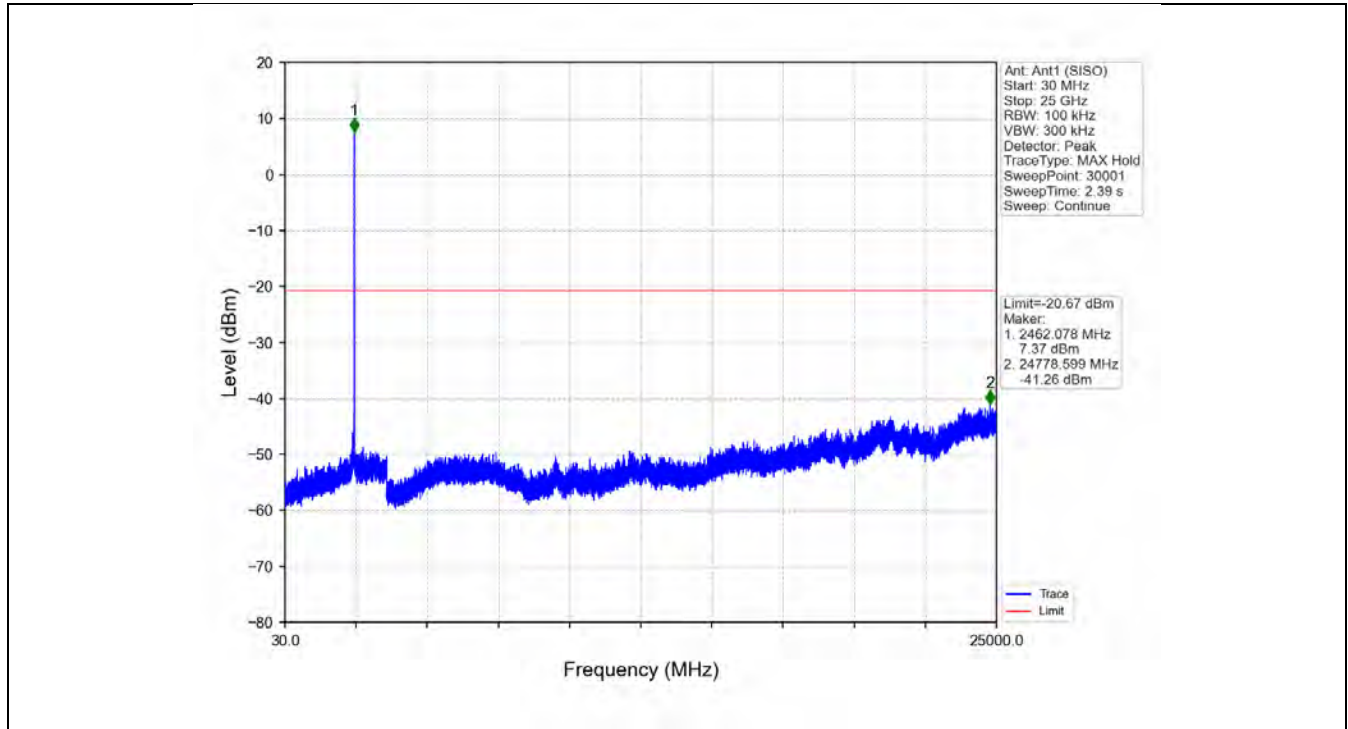
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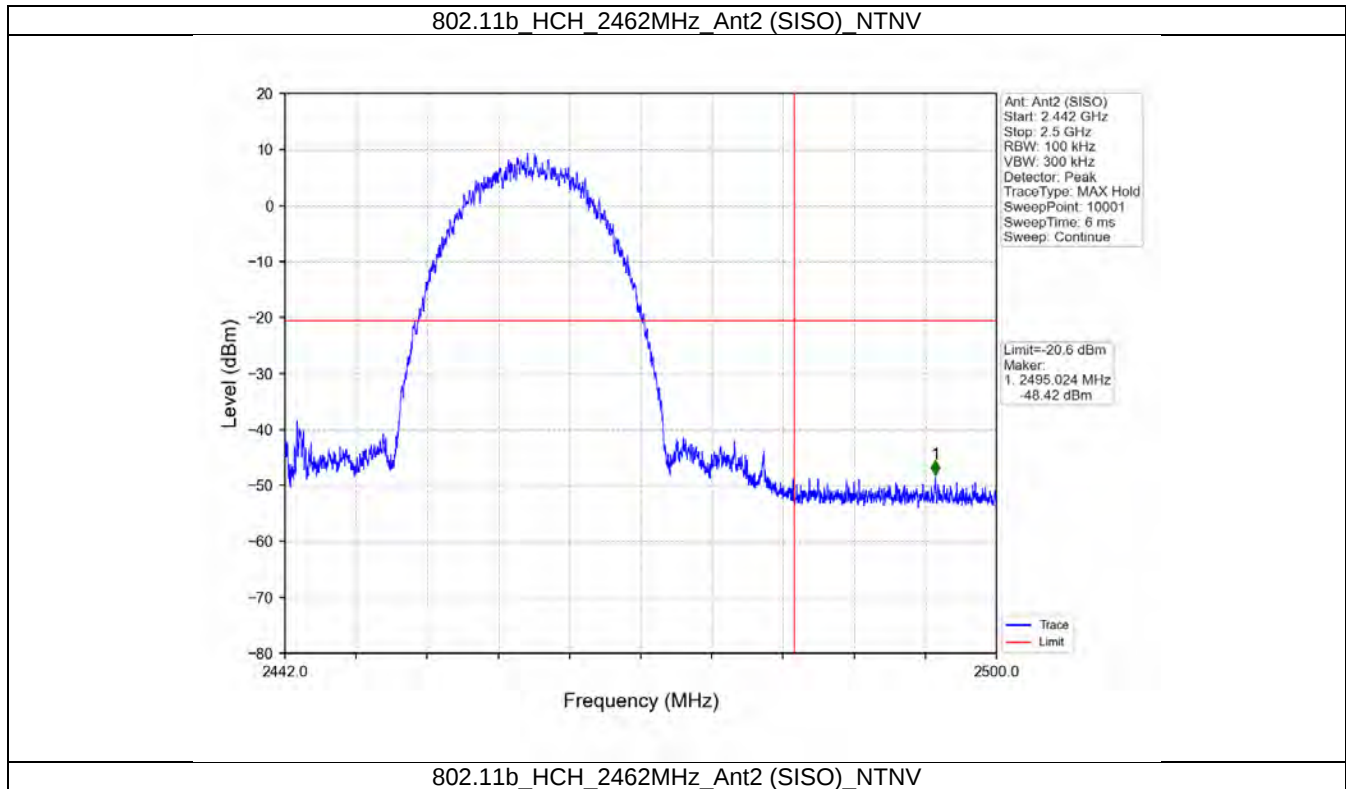
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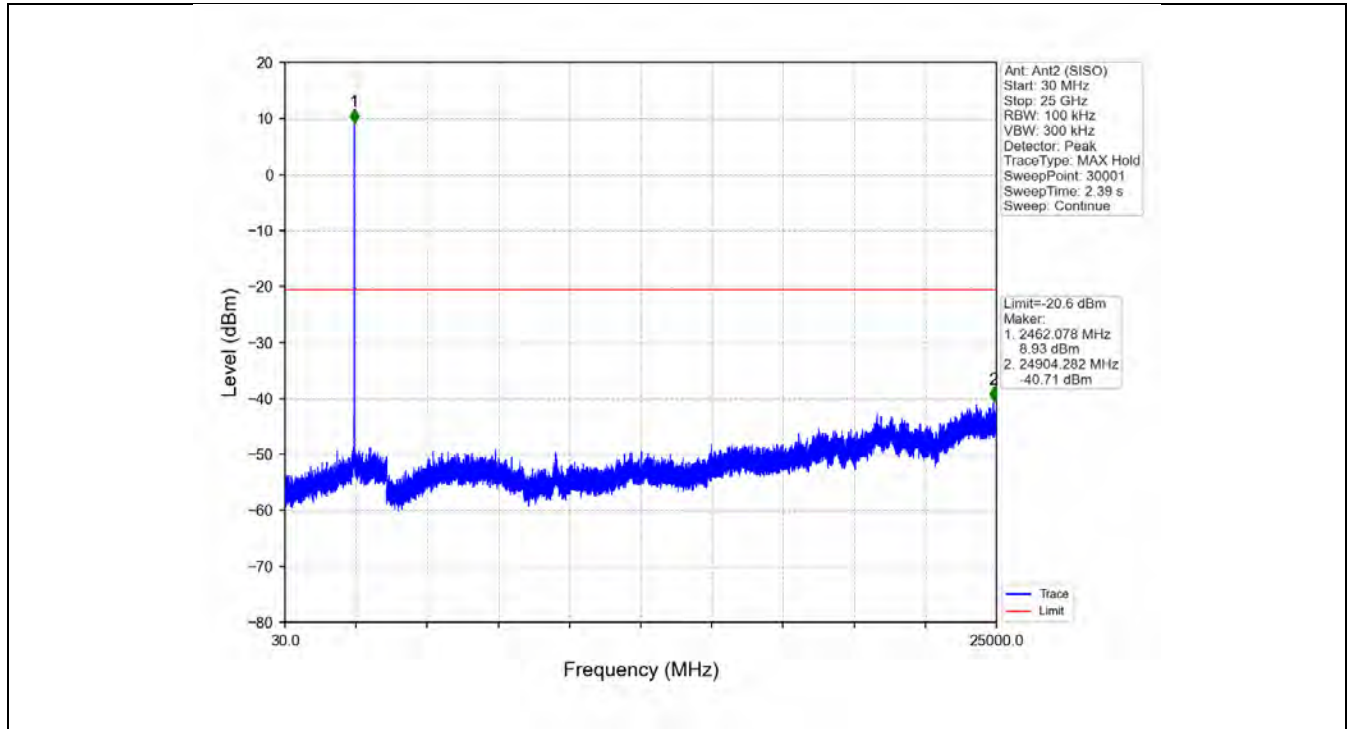
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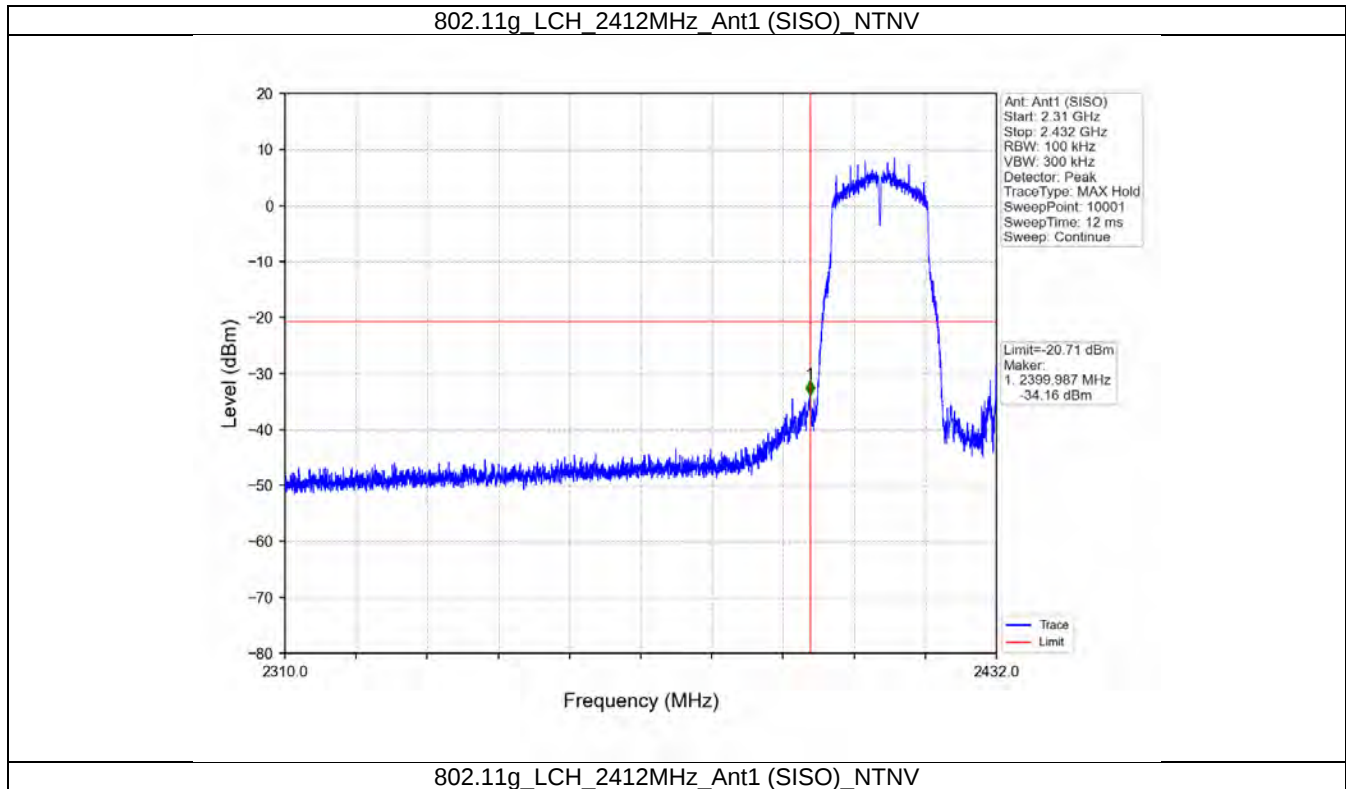
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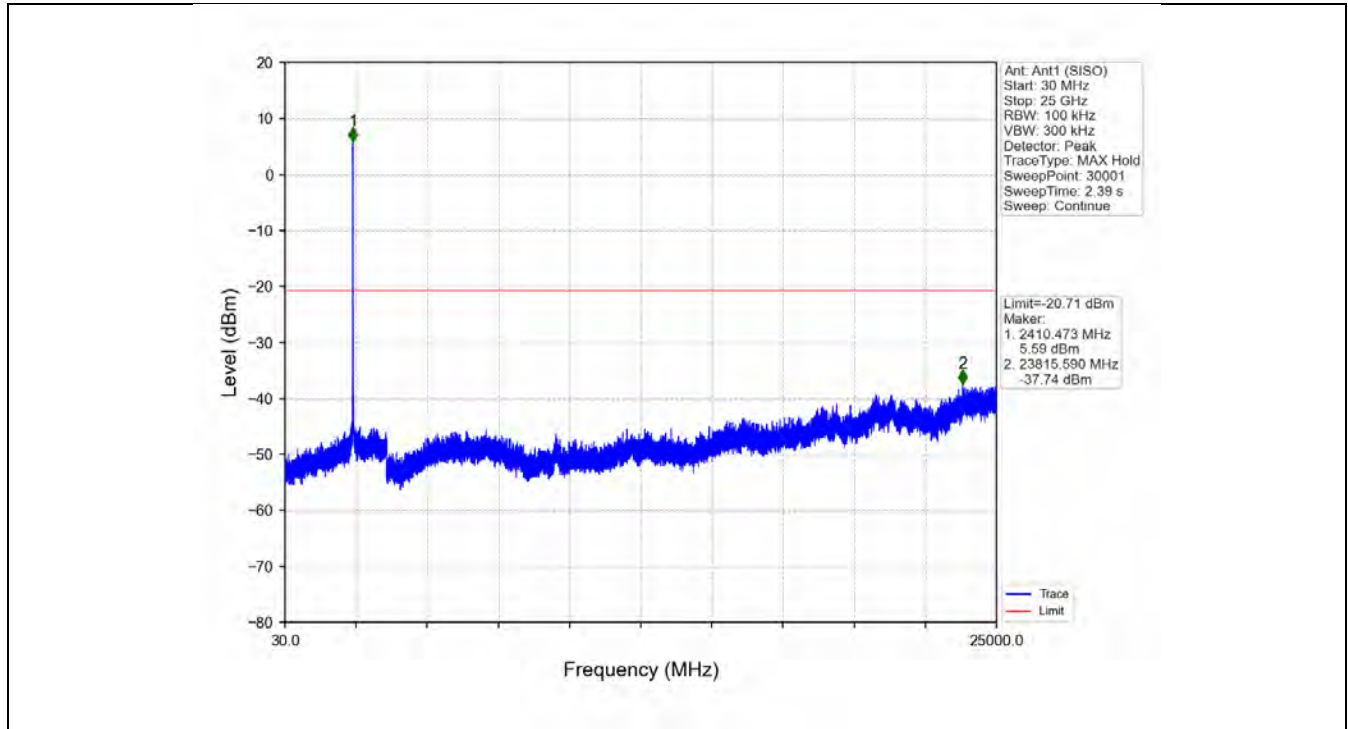
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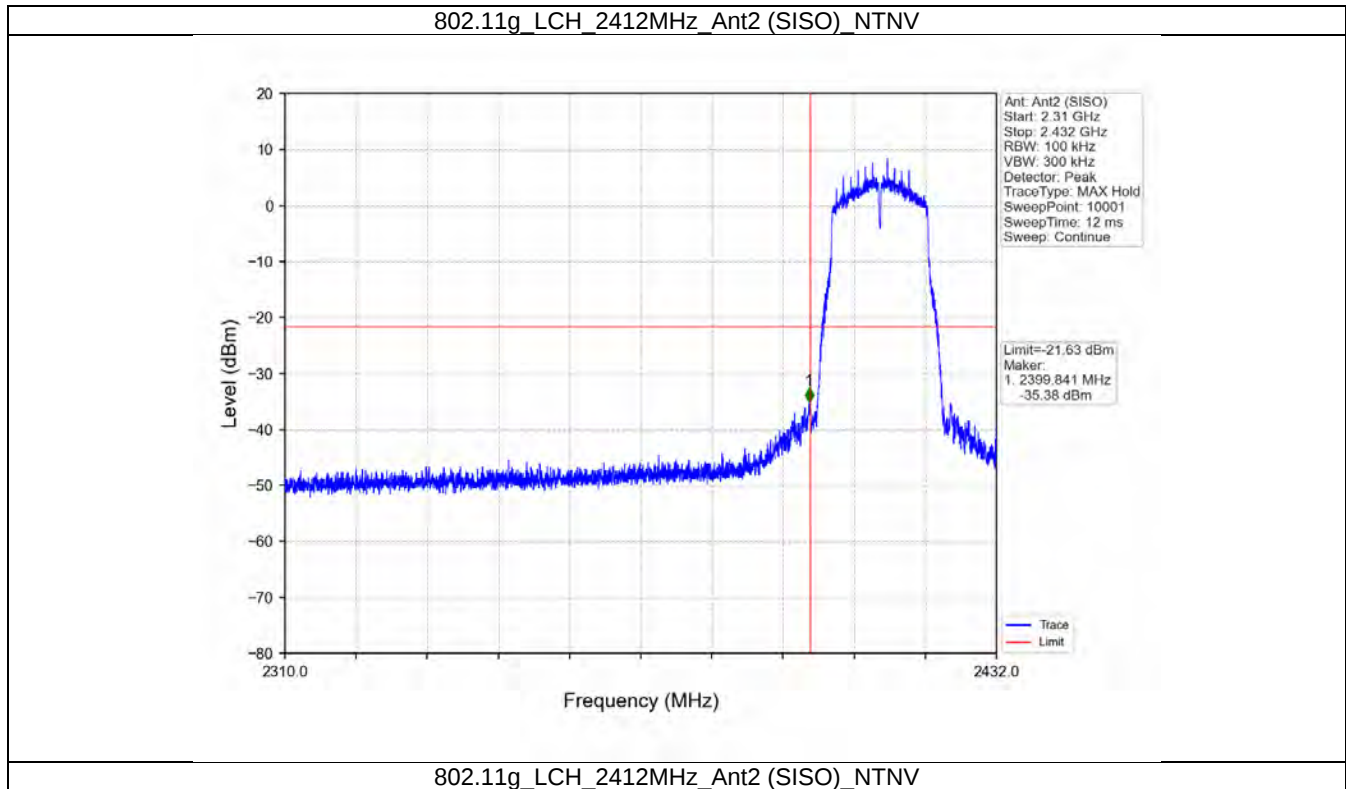
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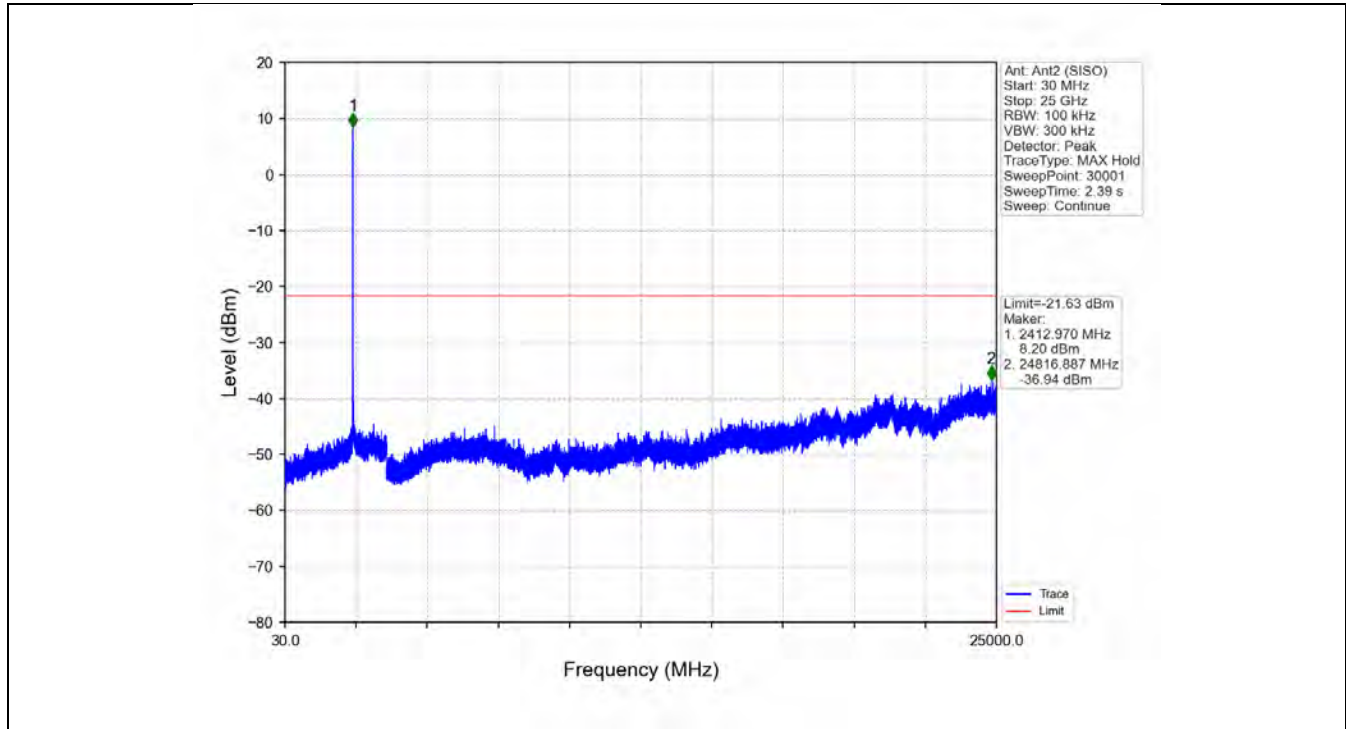
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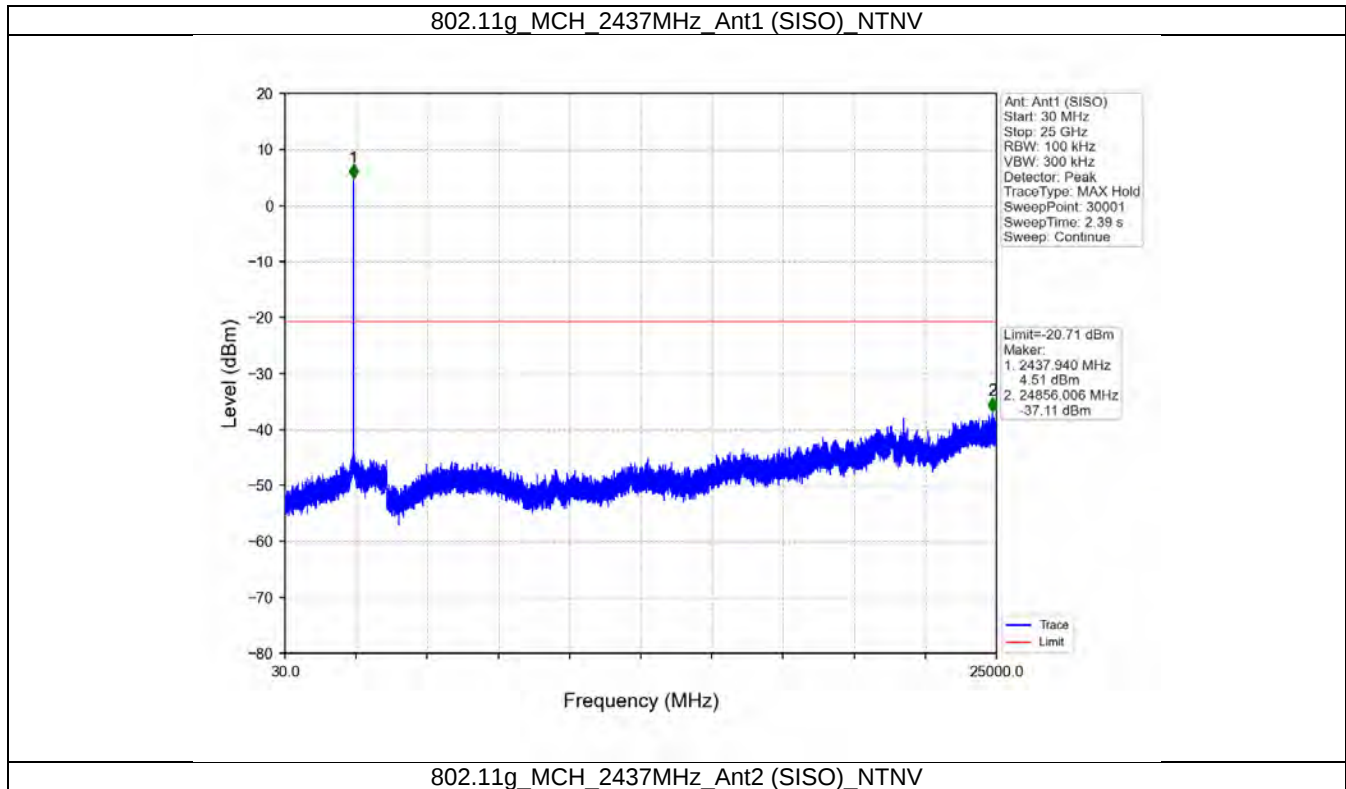
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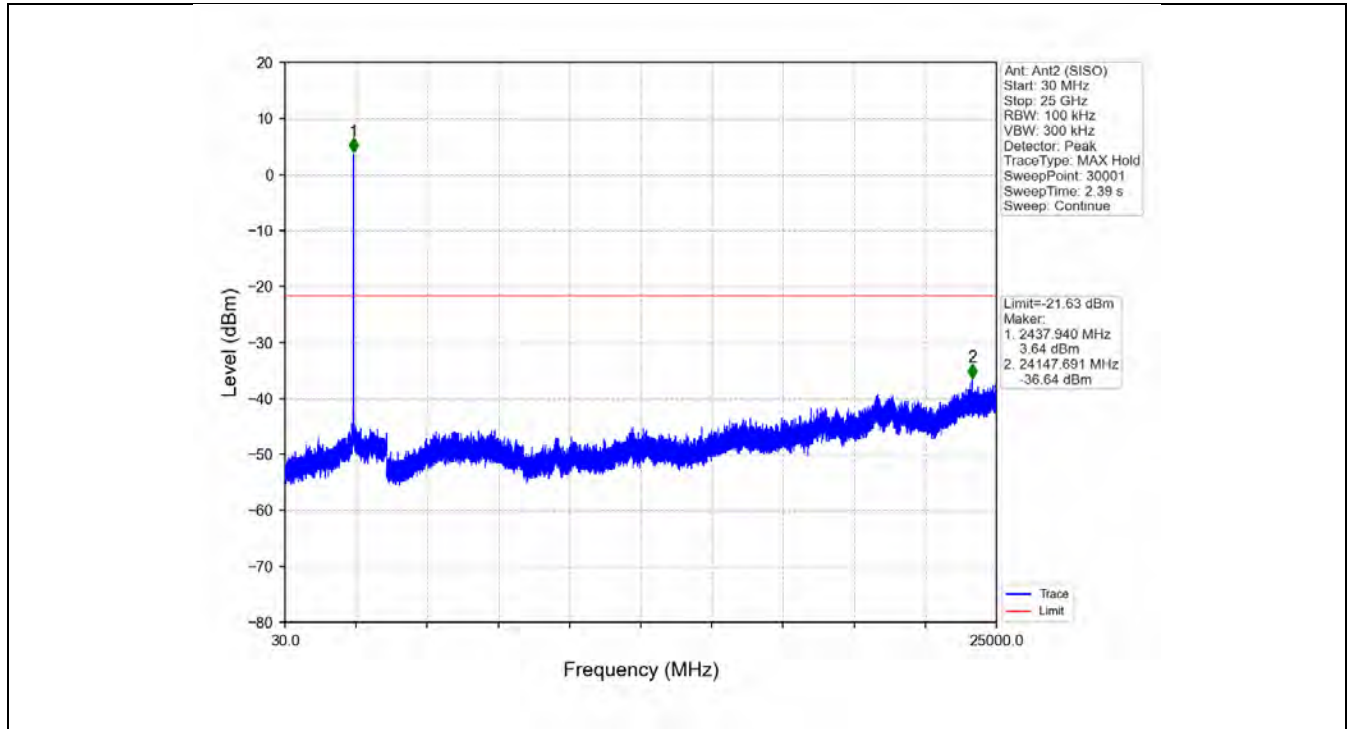
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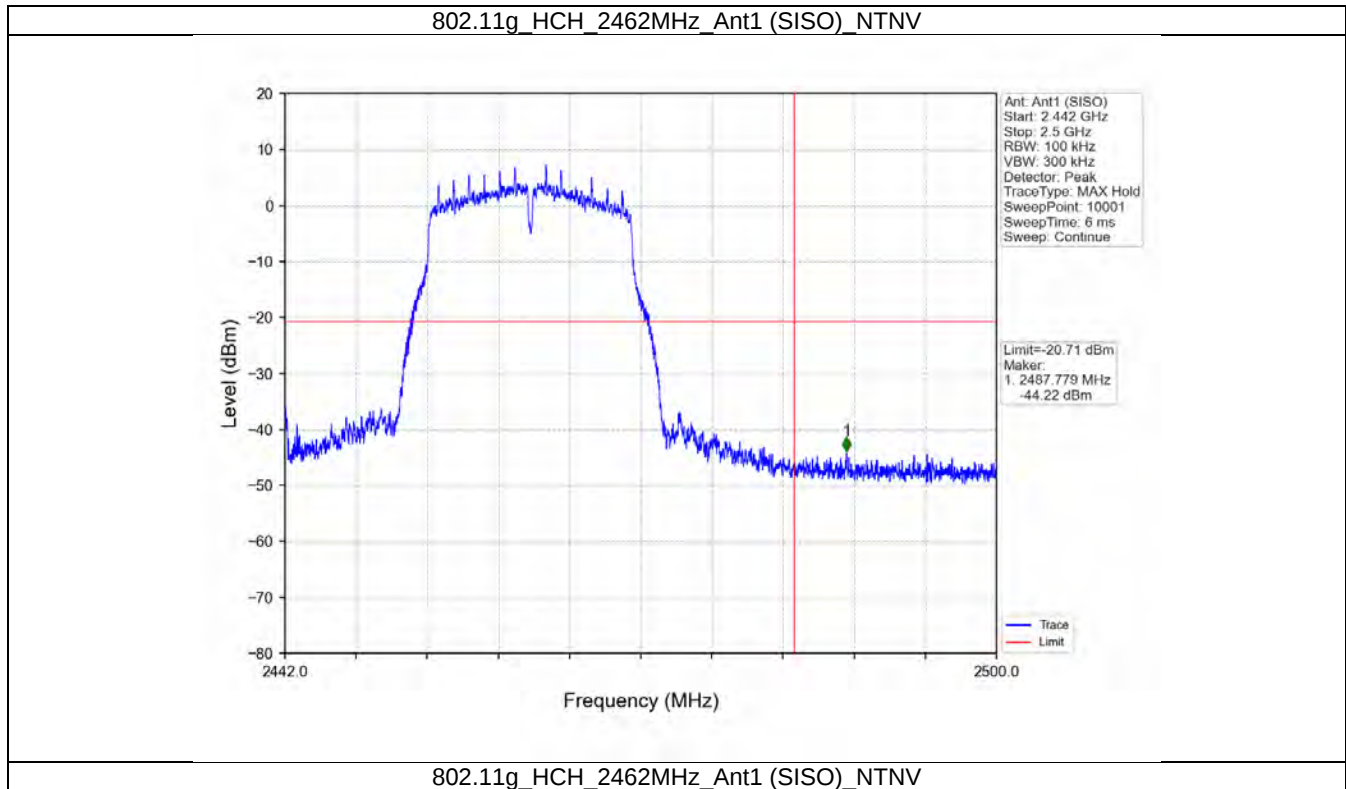
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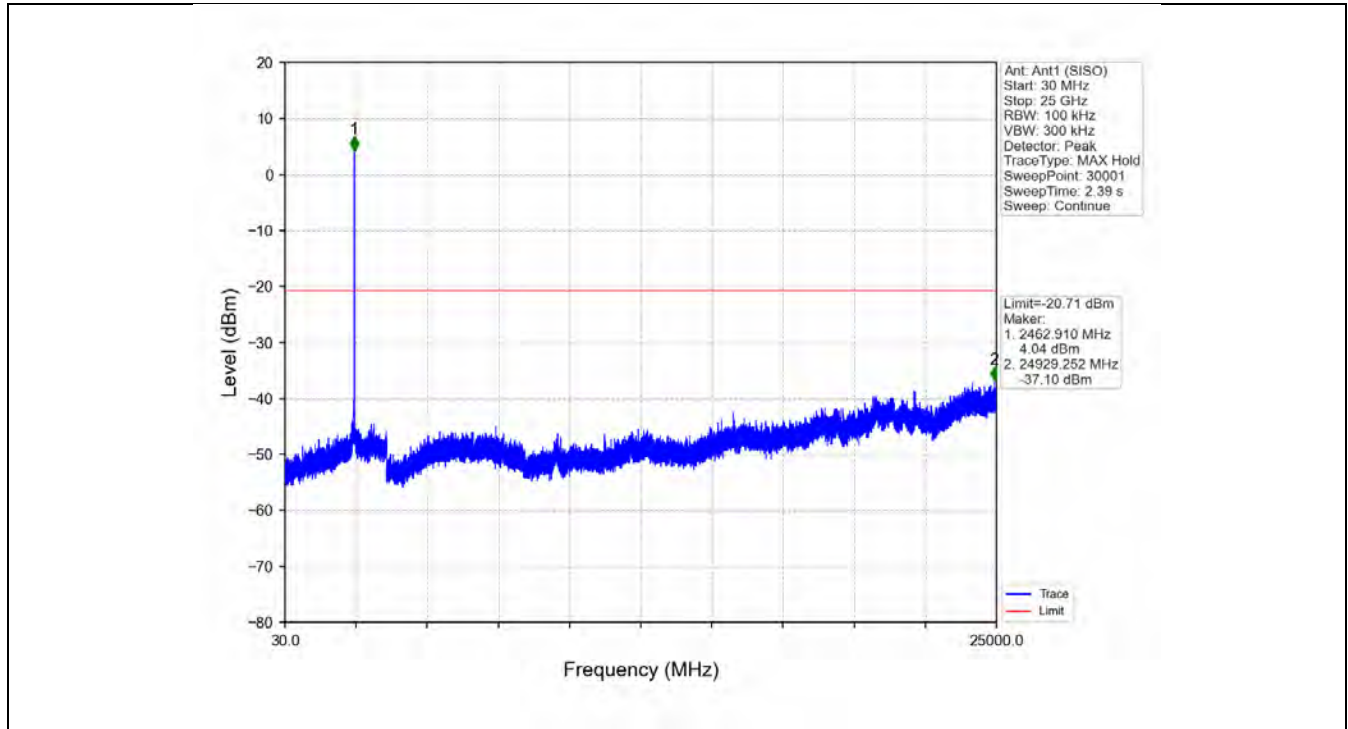
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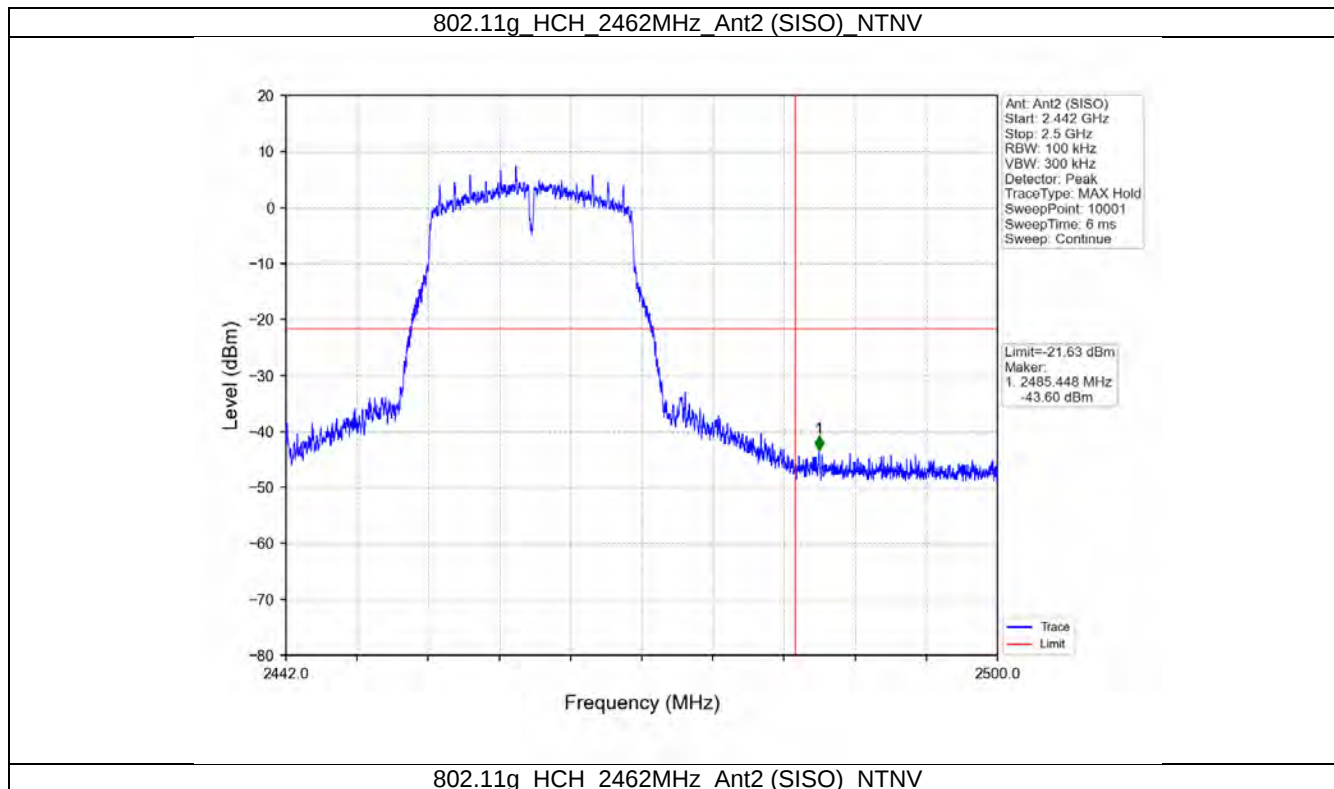
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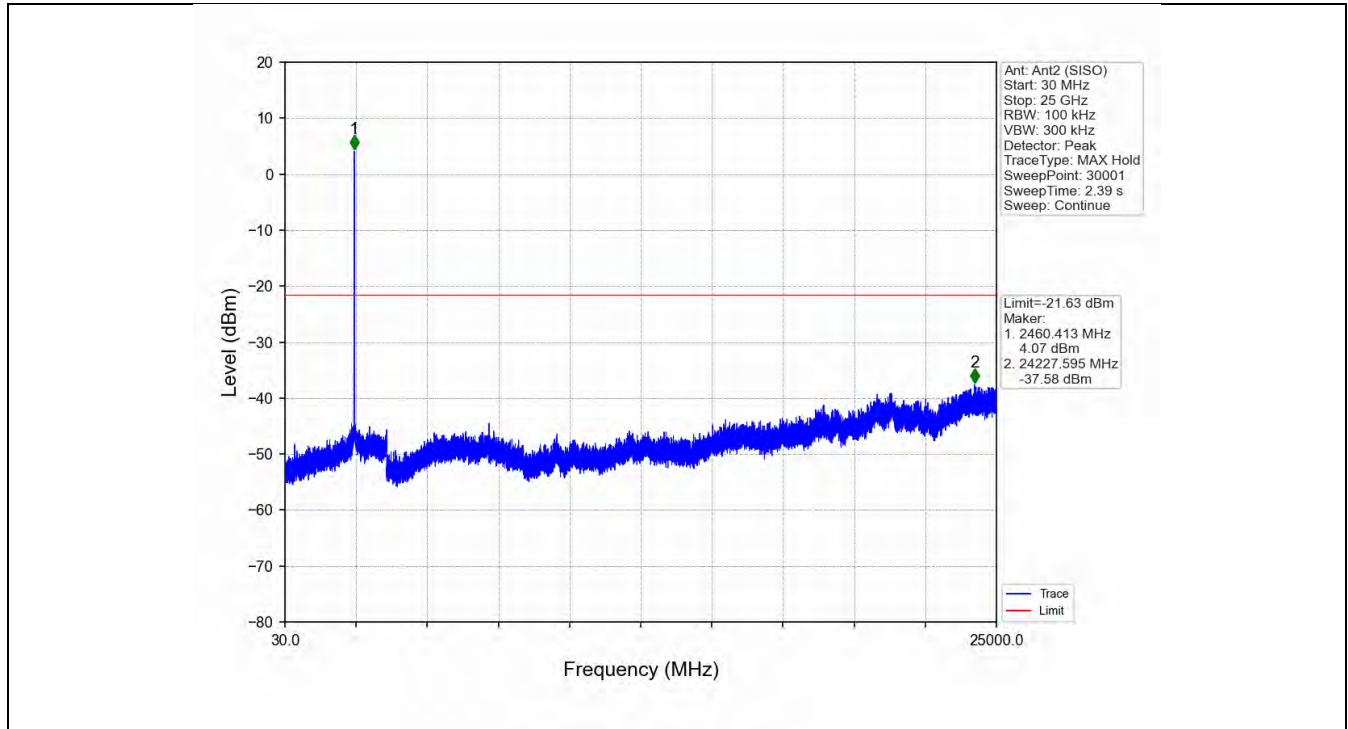
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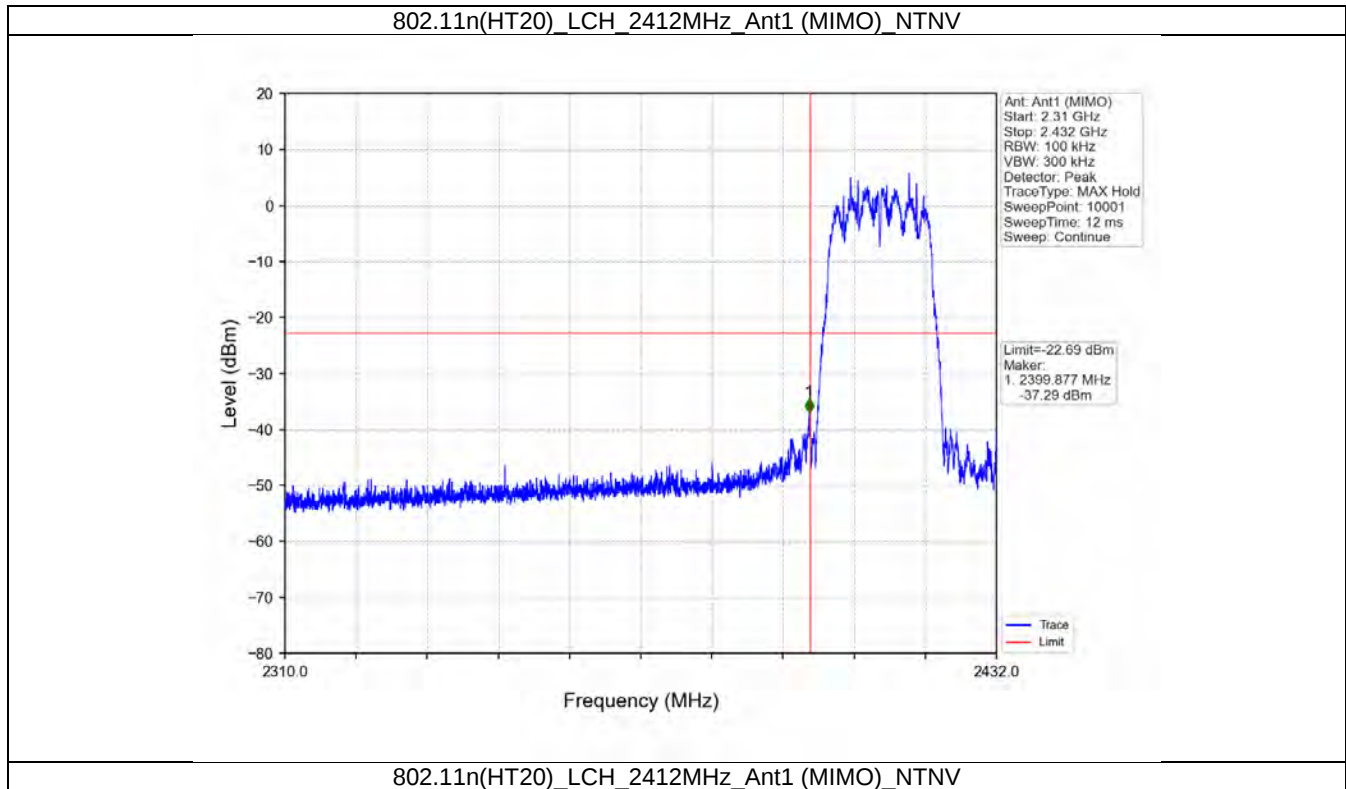
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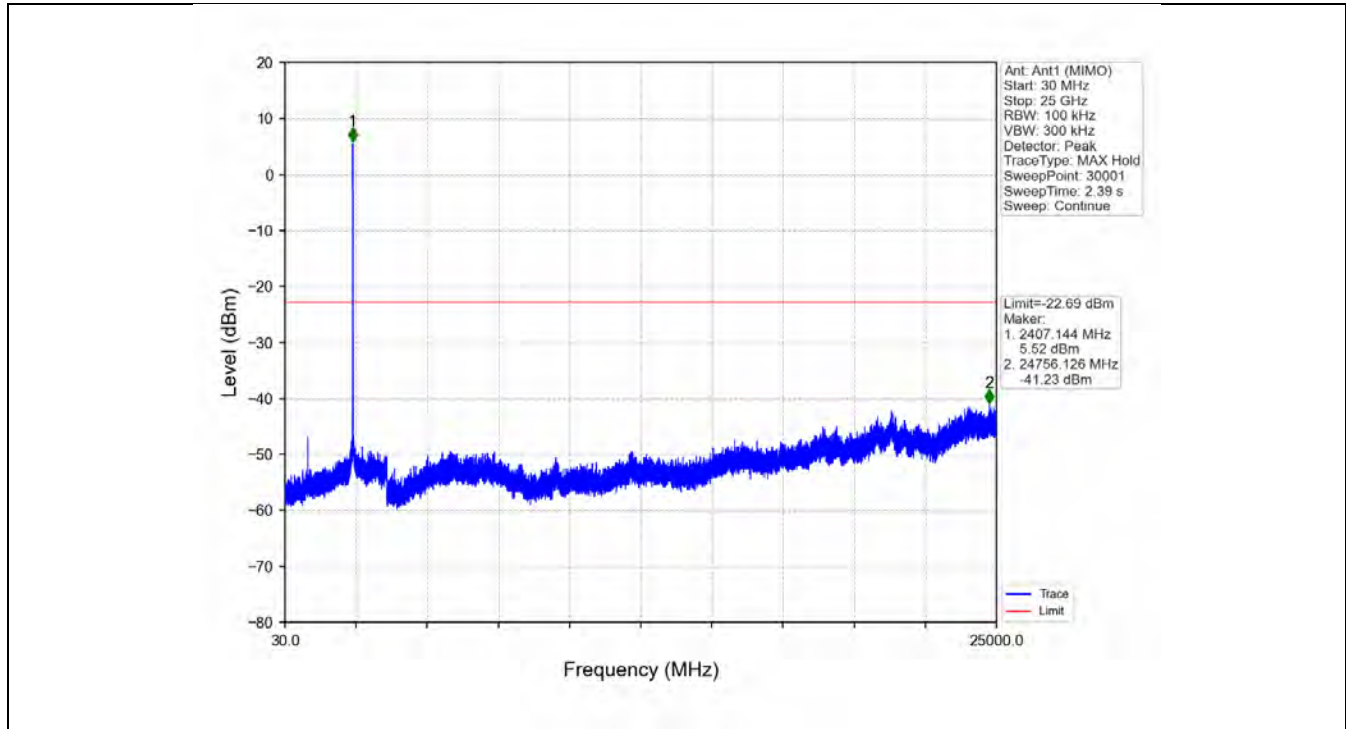
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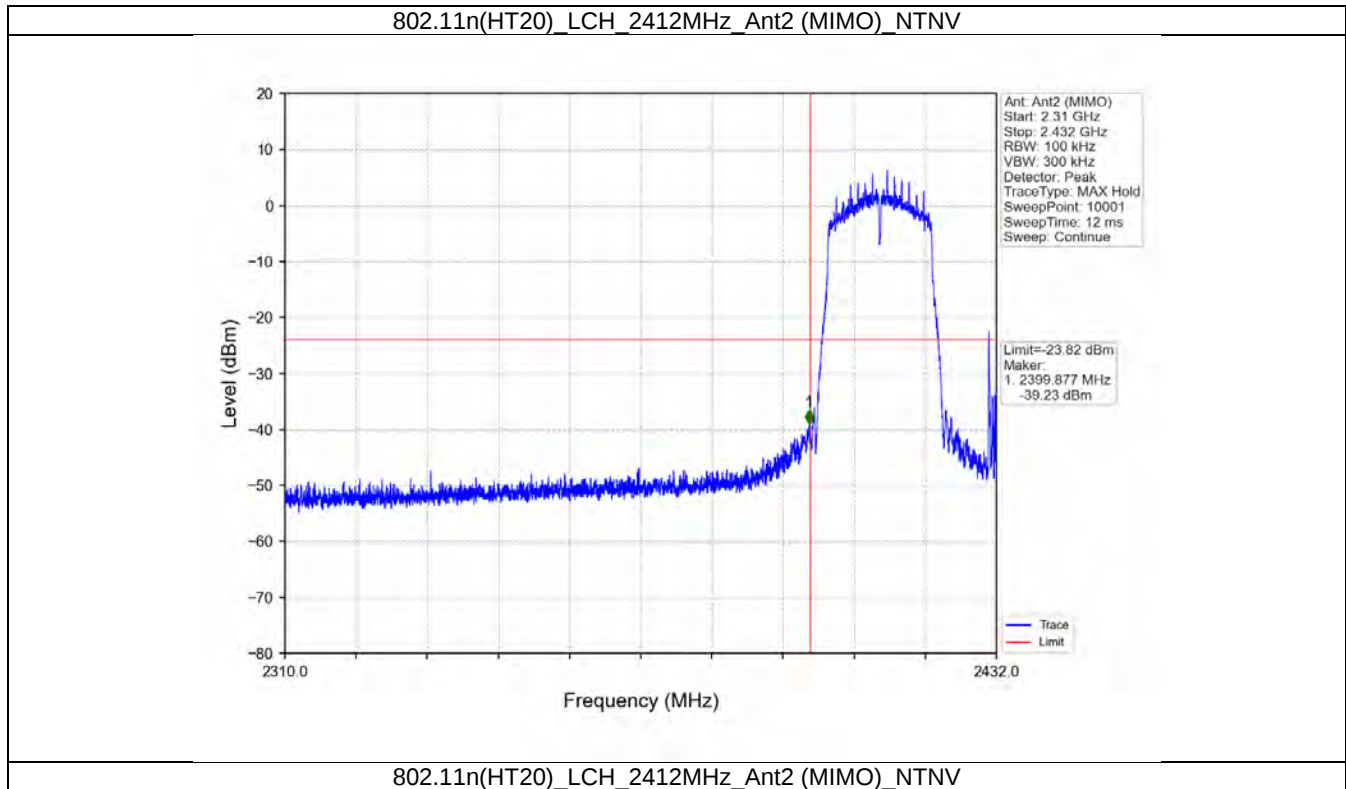
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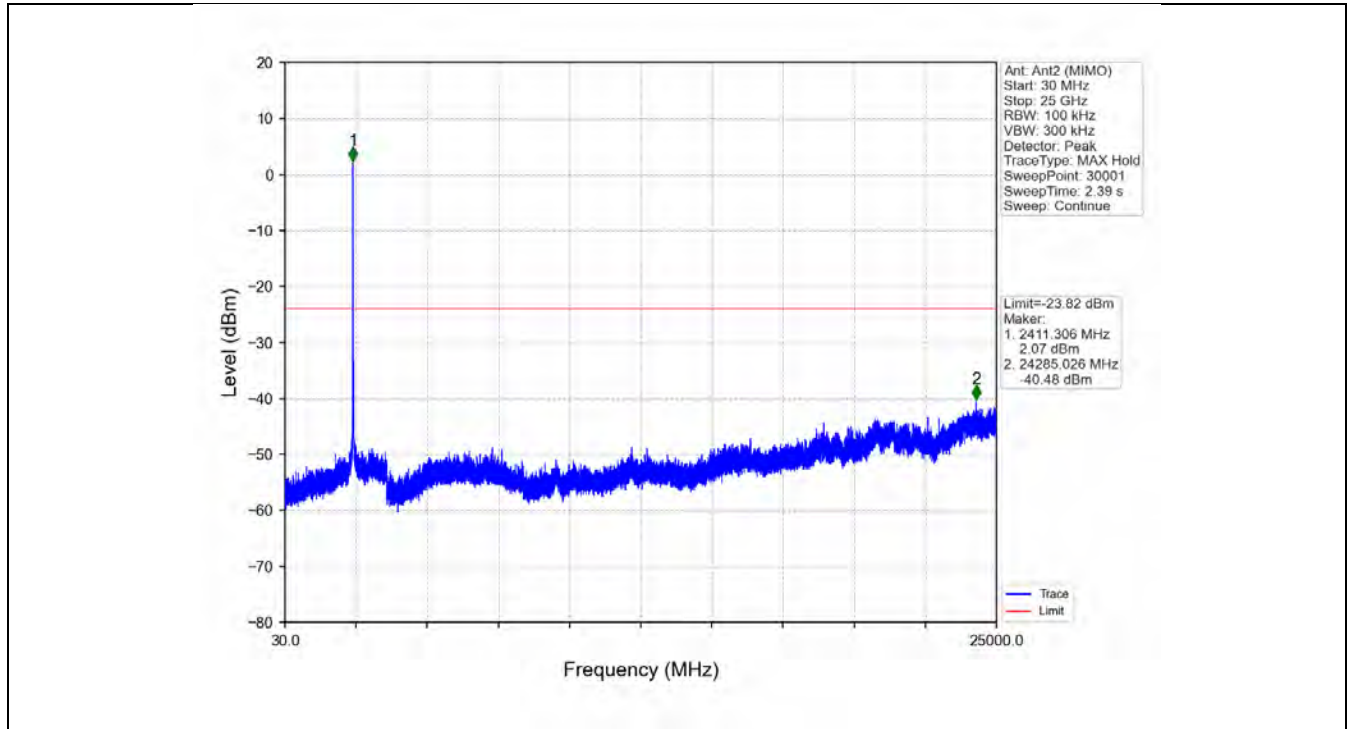
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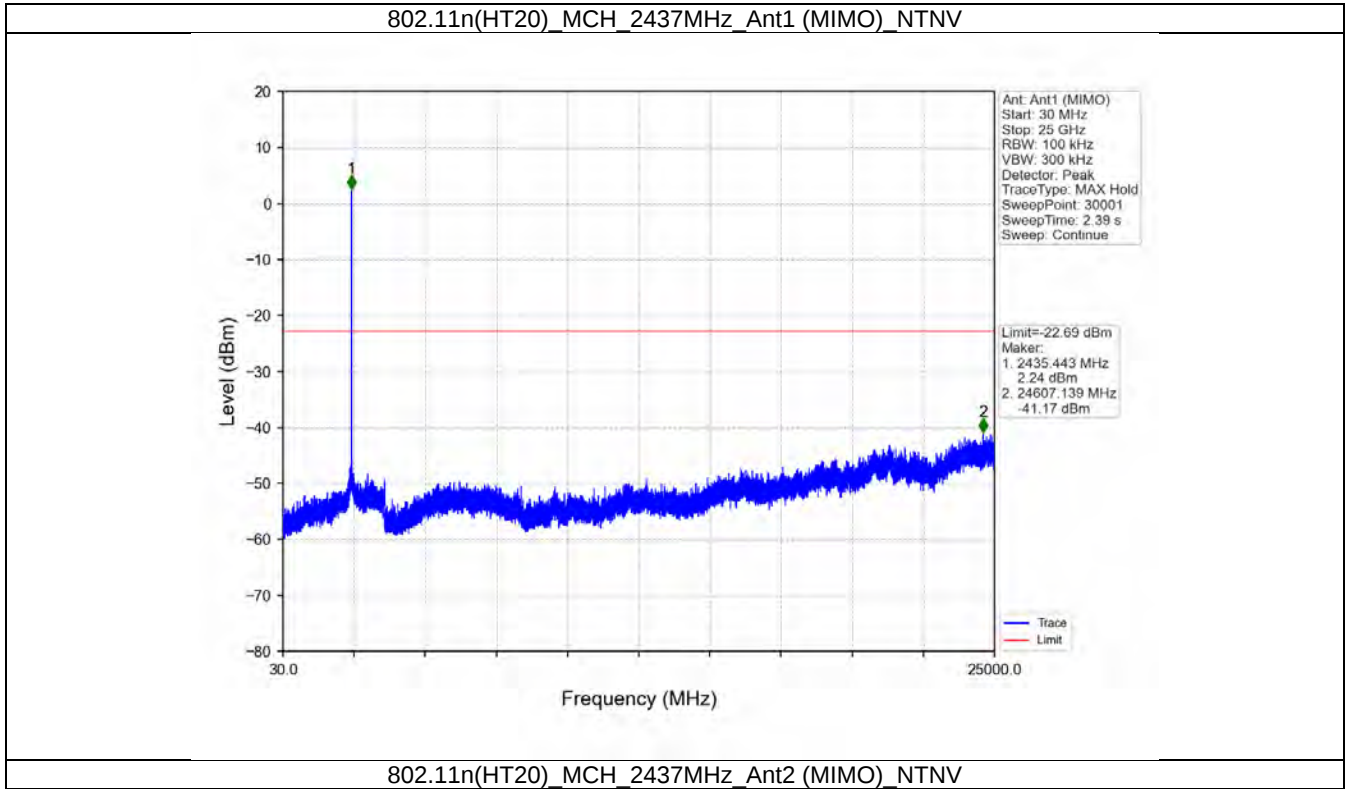
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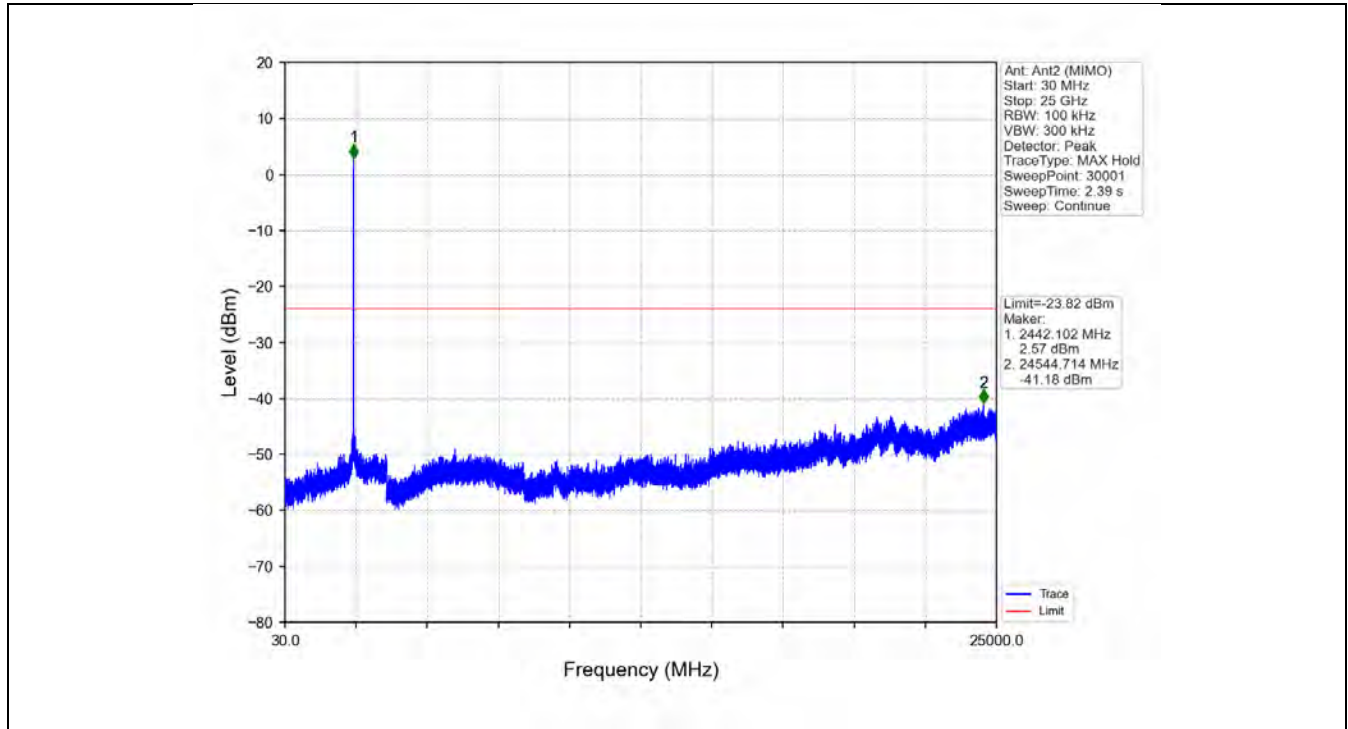
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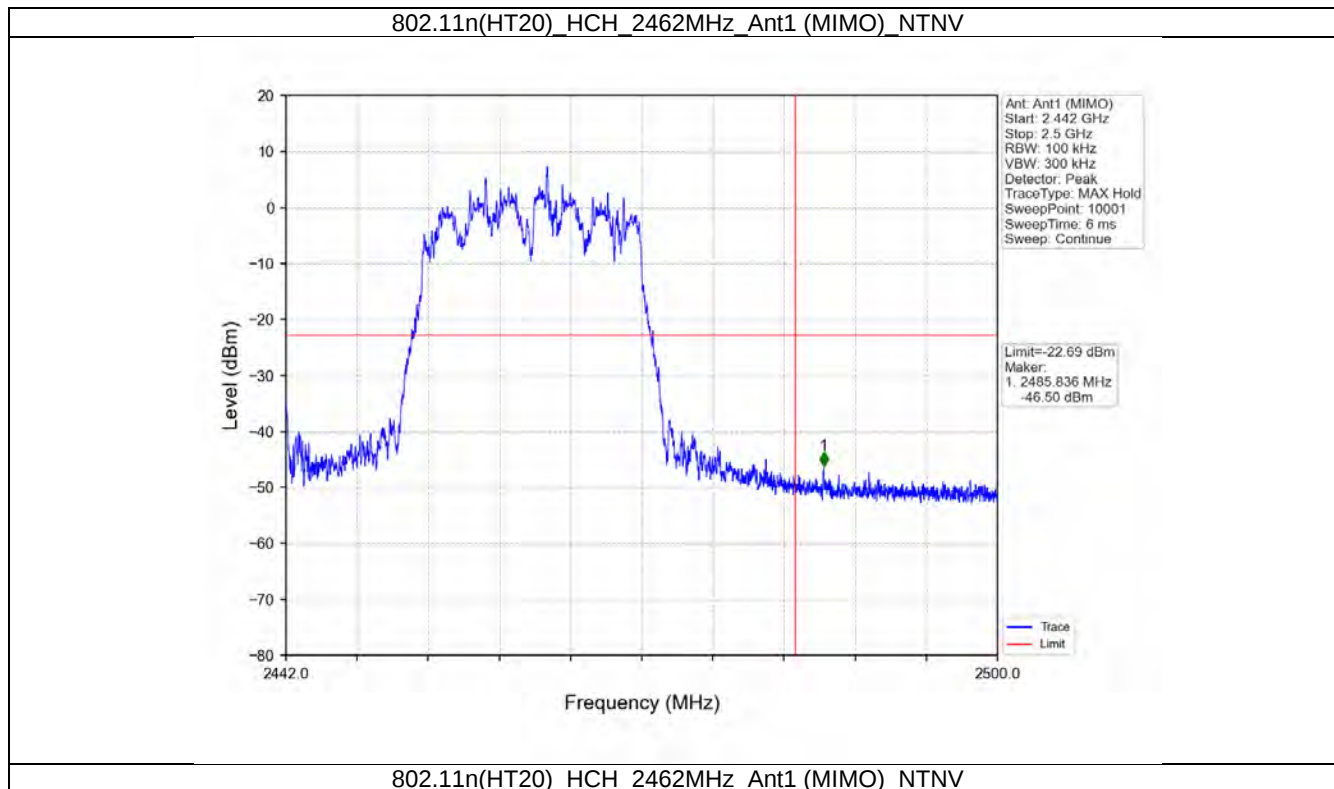
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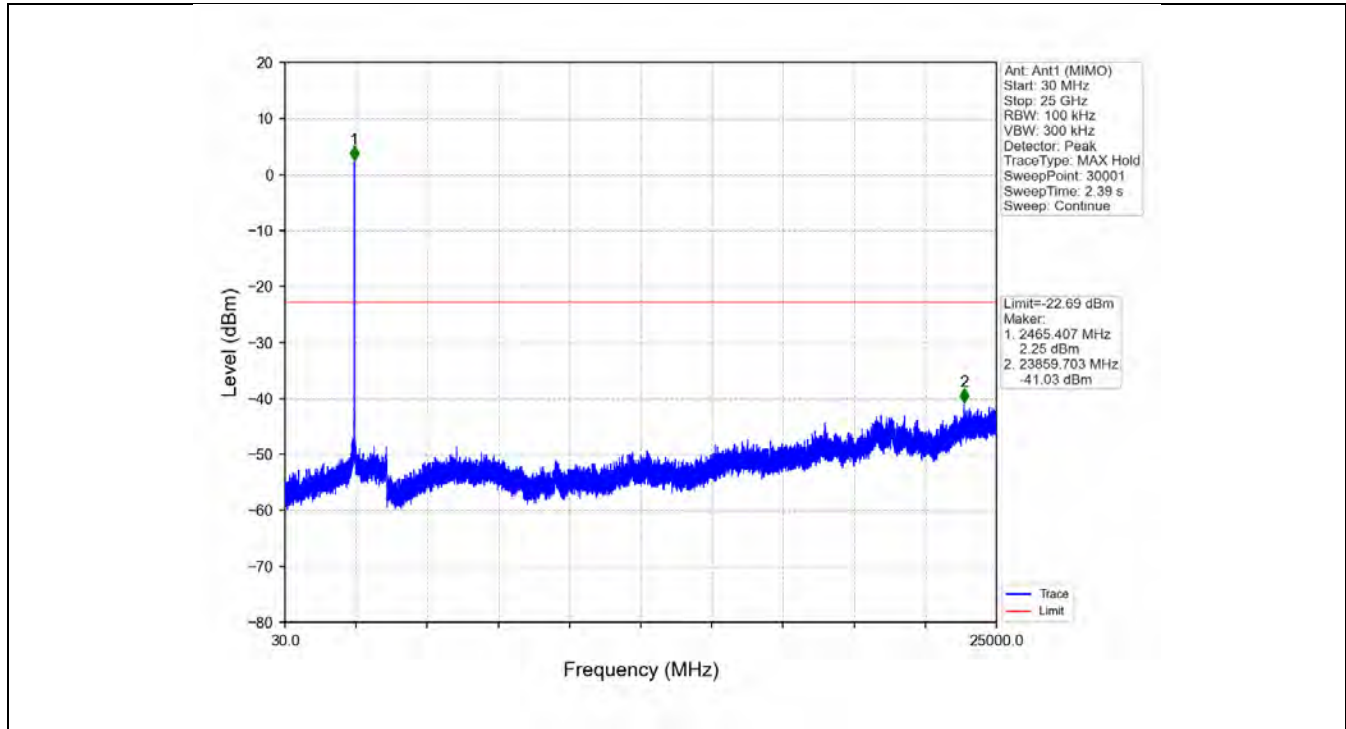
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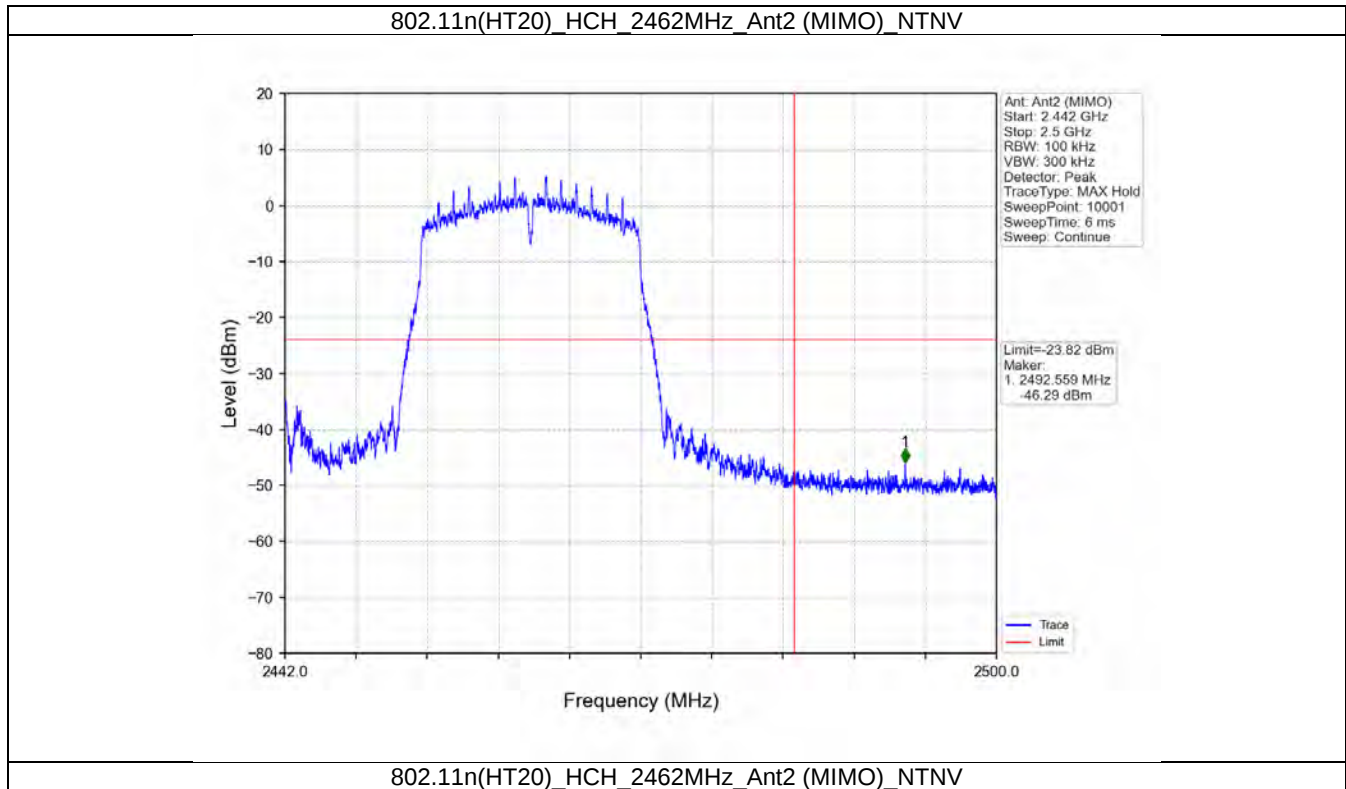
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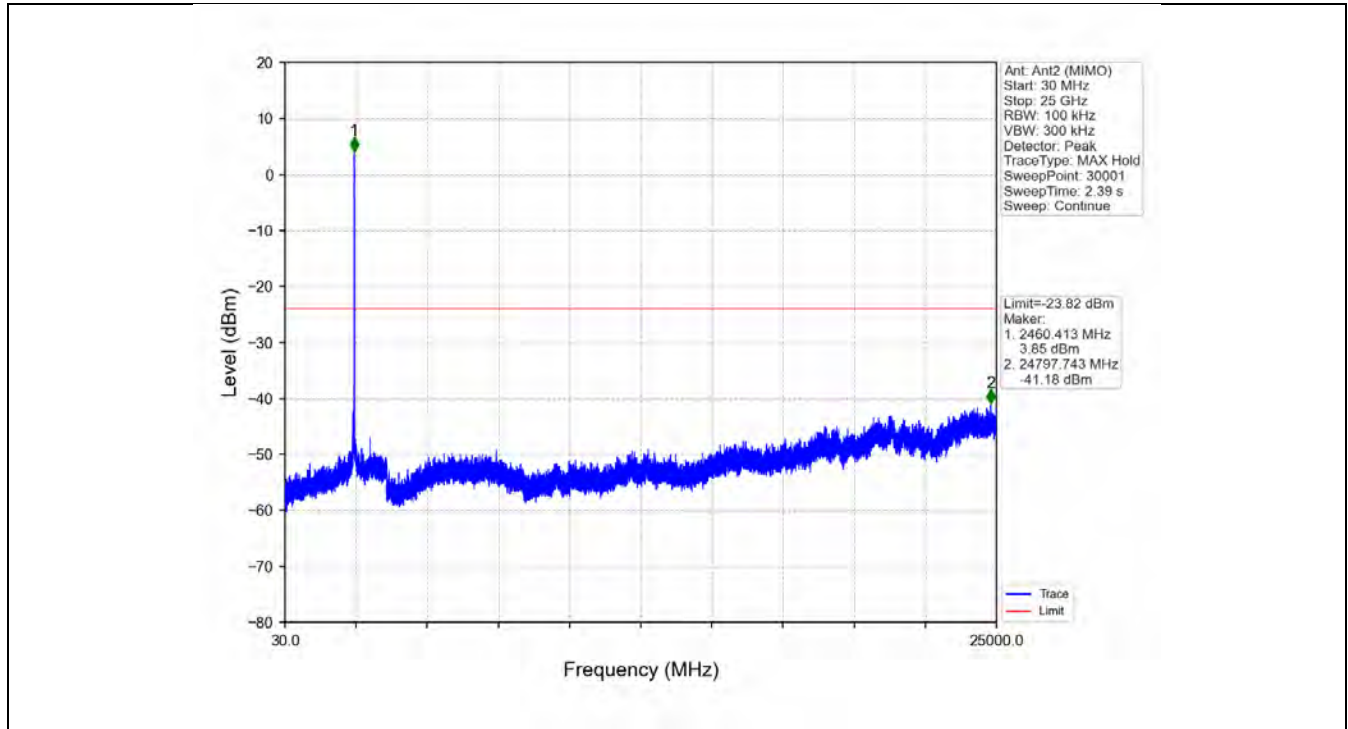
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