

Appendix A for SHCR220500089201

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

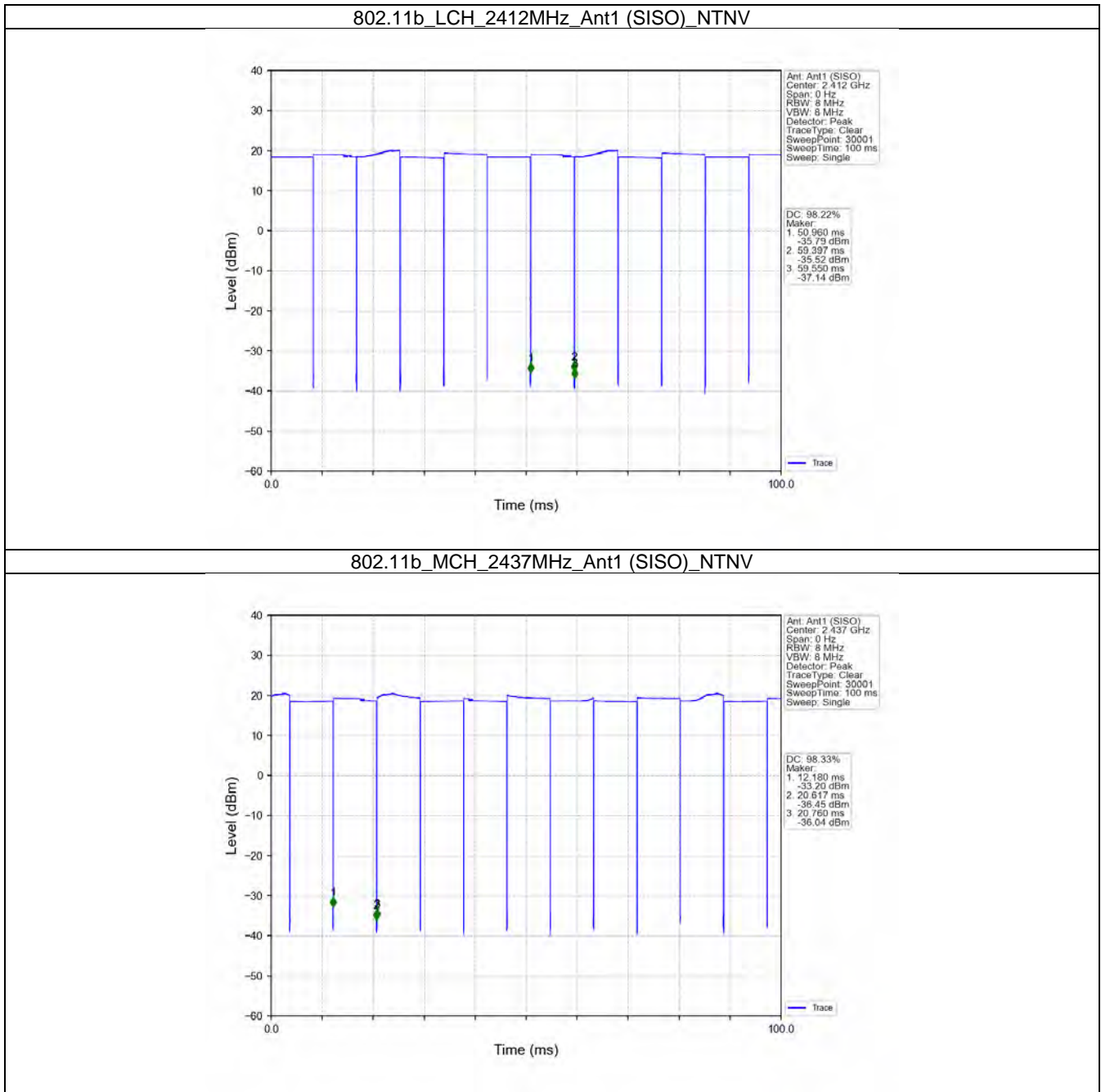
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.437	8.590	98.22	0.08	1.67
		2437	8.437	8.580	98.33	0.07	1.40
		2462	8.420	8.560	98.36	0.07	1.08
802.11g	SISO	2412	1.397	1.539	90.77	0.42	5.64
		2437	1.403	1.575	89.08	0.50	8.33
		2462	1.396	1.547	90.24	0.45	5.58
802.11n (HT20)	MIMO	2412	1.310	1.478	88.63	0.52	7.63
		2437	1.309	1.477	88.63	0.52	7.01
		2462	1.315	1.450	90.69	0.42	6.61



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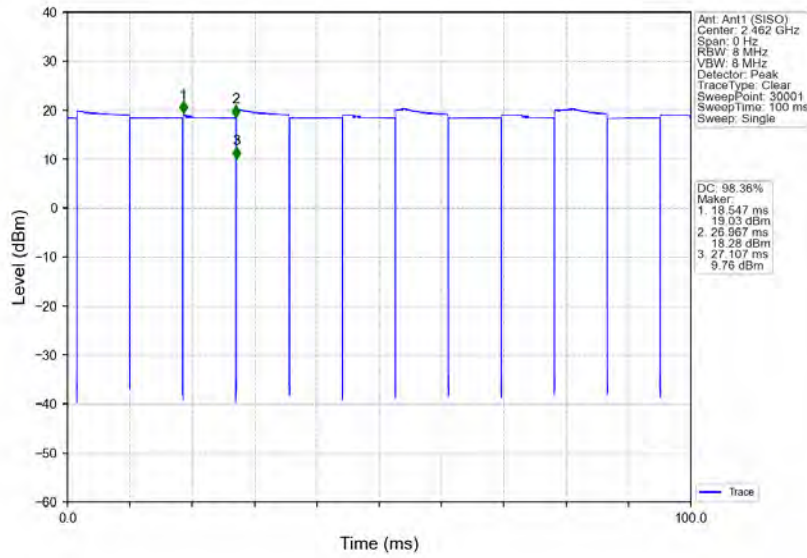
1.1.2 Test Graph



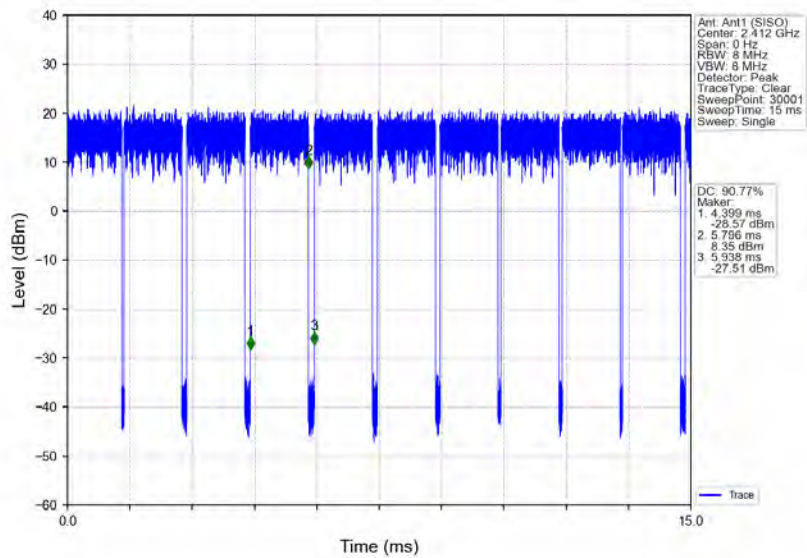
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



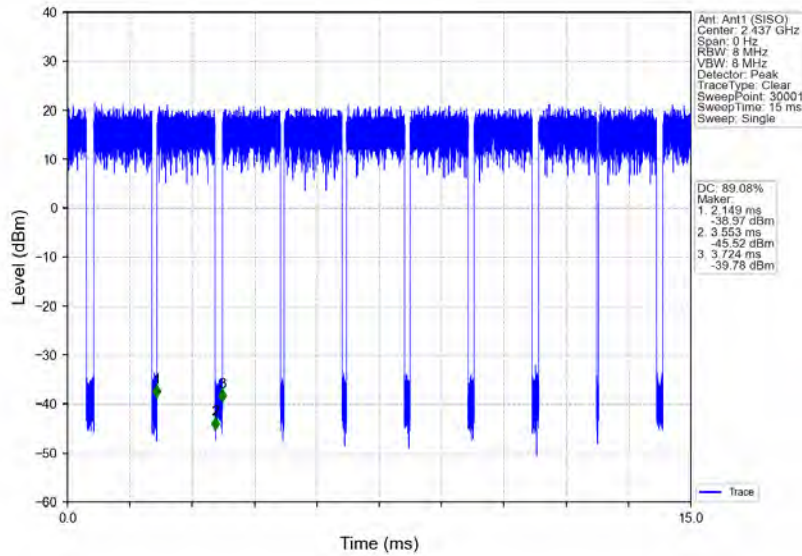
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



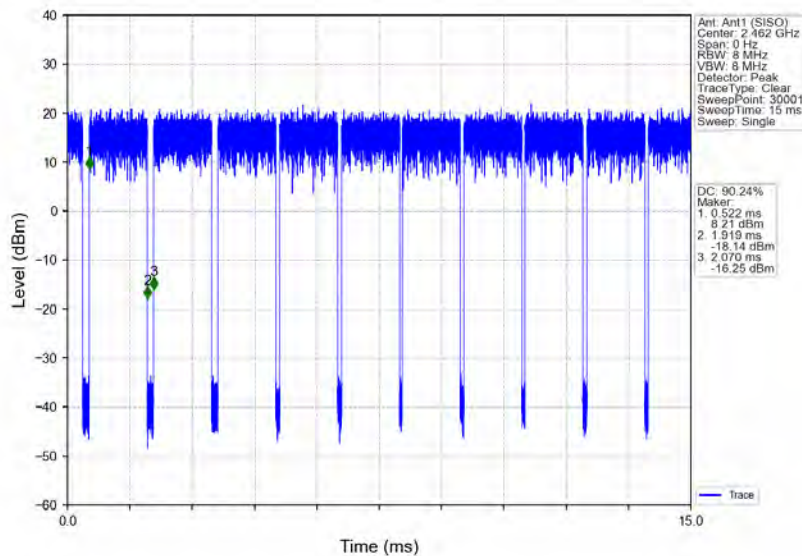
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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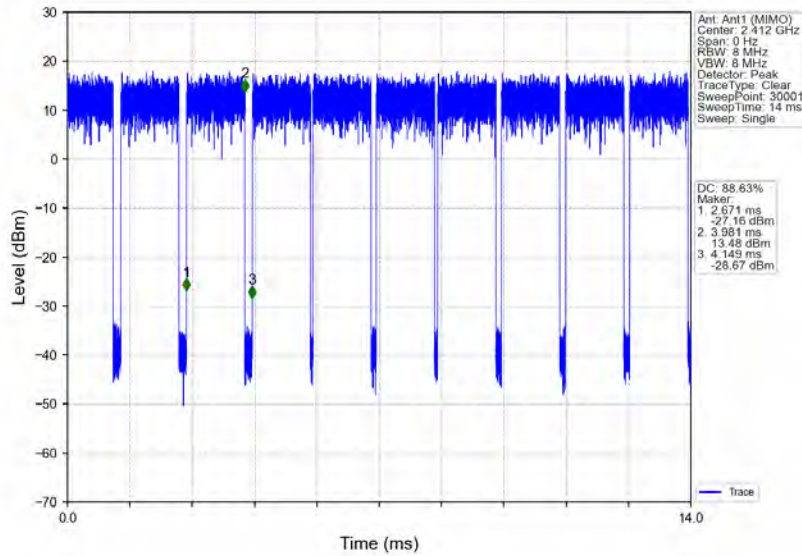
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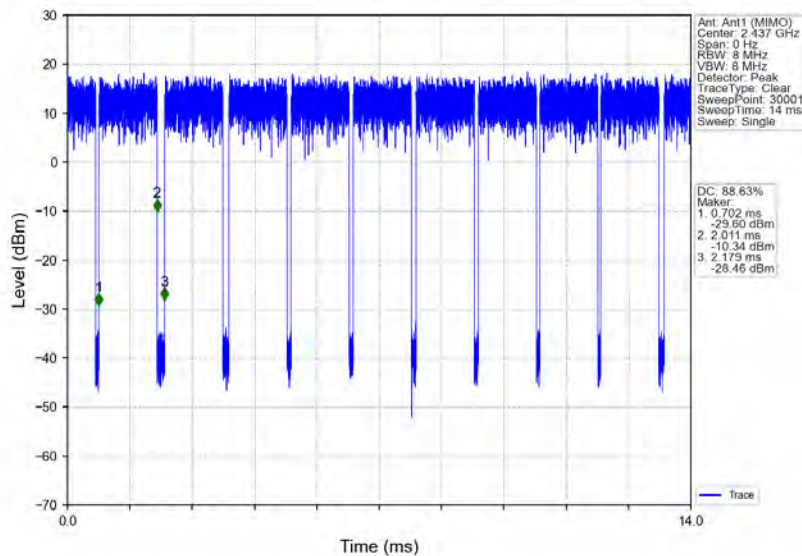
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



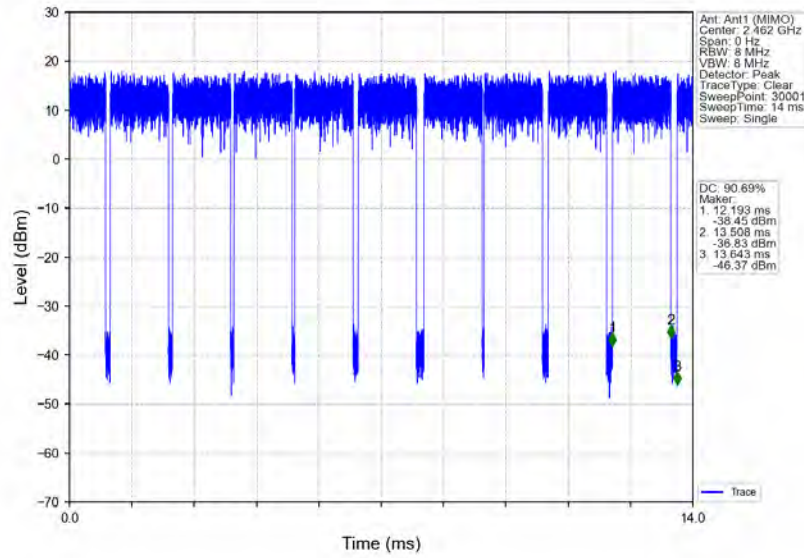
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

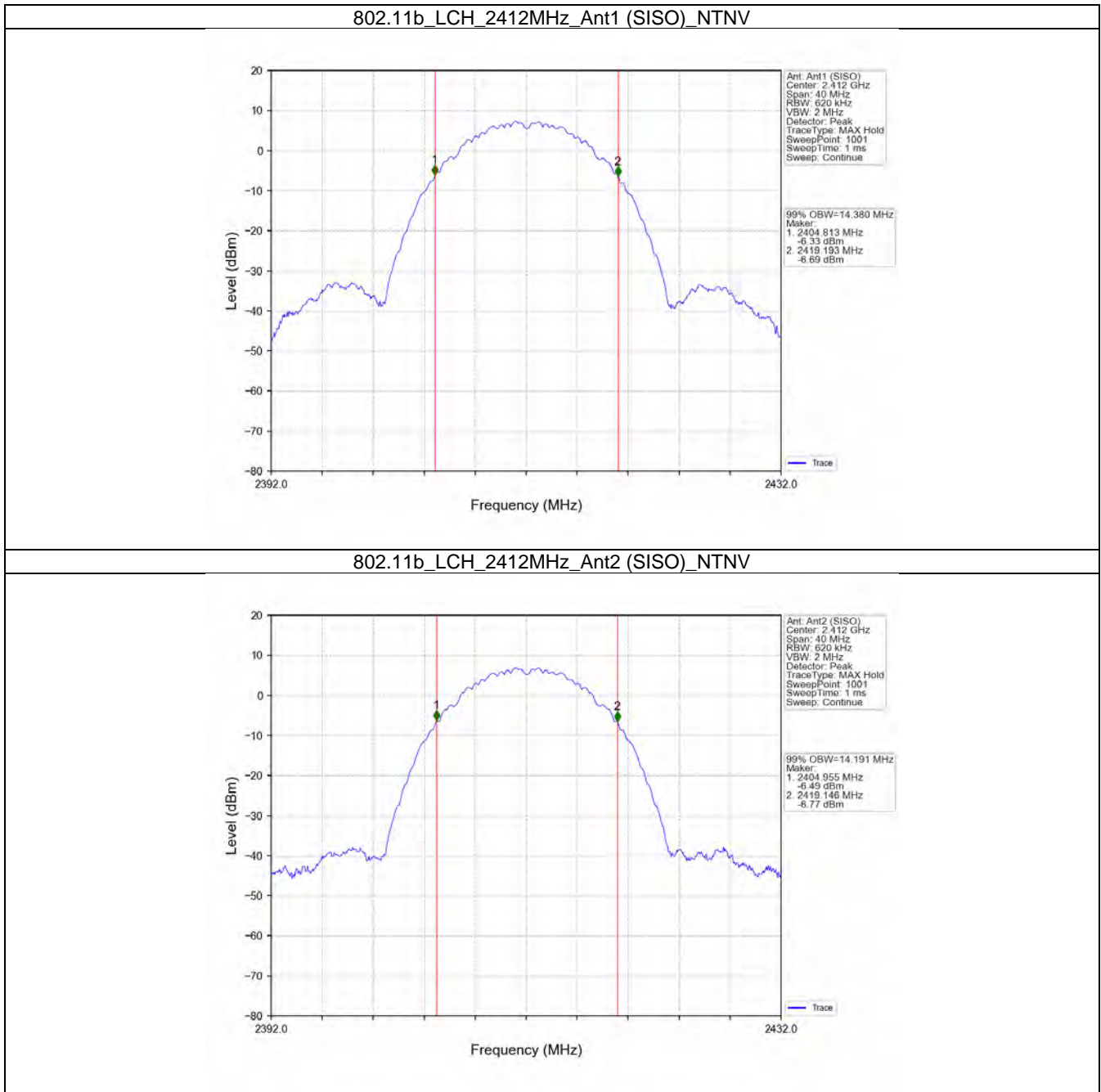
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.380	Pass
			2	14.191	Pass
		2437	1	14.369	Pass
			2	14.267	Pass
		2462	1	14.344	Pass
			2	14.243	Pass
802.11g	SISO	2412	1	17.557	Pass
			2	17.555	Pass
		2437	1	17.571	Pass
			2	17.562	Pass
		2462	1	17.545	Pass
			2	17.567	Pass
802.11n (HT20)	MIMO	2412	1	18.037	Pass
			2	17.724	Pass
		2437	1	18.017	Pass
			2	17.694	Pass
		2462	1	18.088	Pass
			2	17.731	Pass



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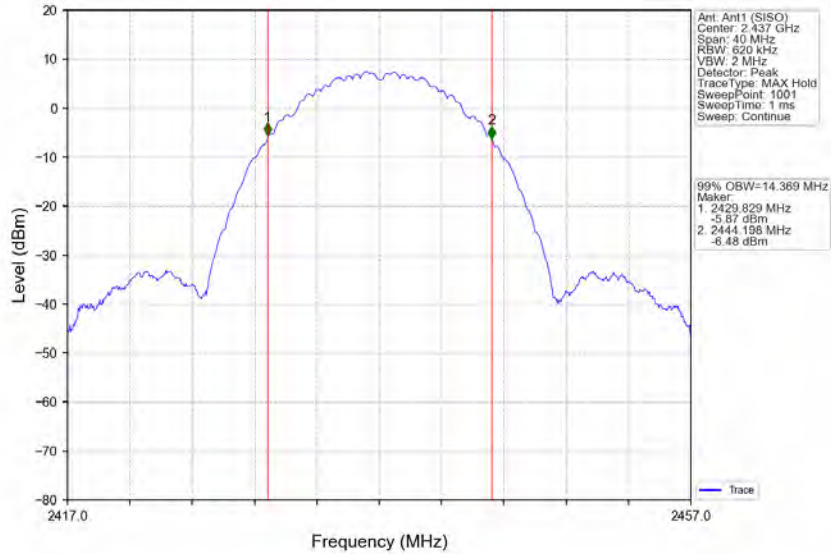
2.1.2 Test Graph



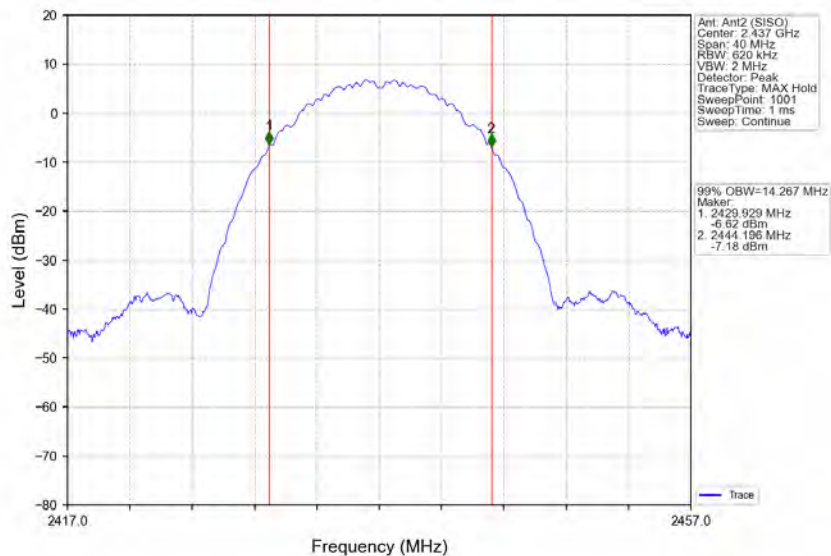
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



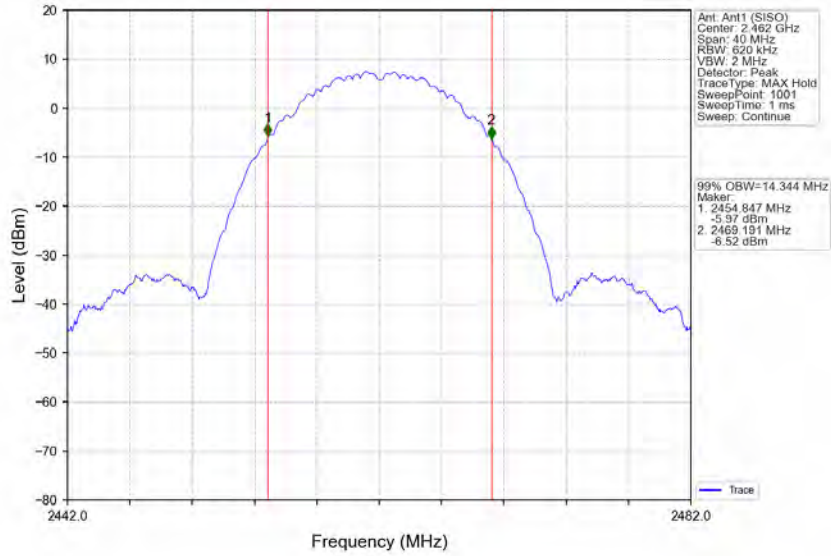
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



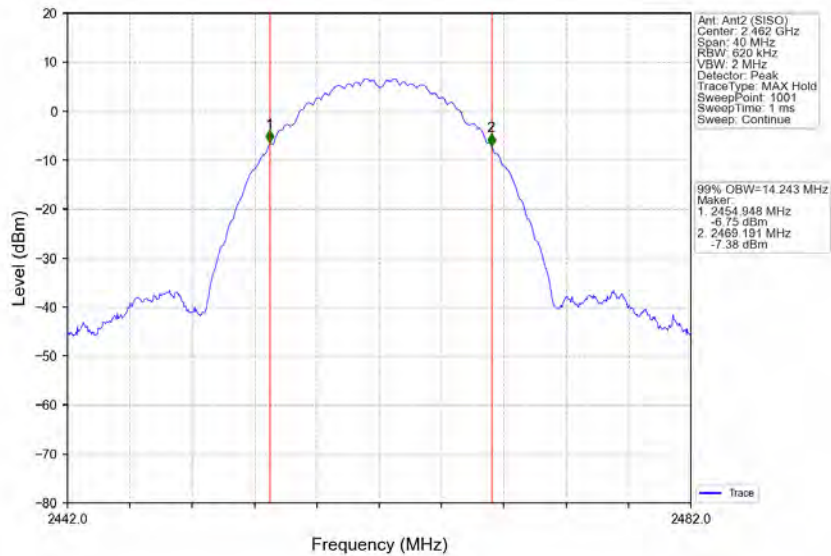
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



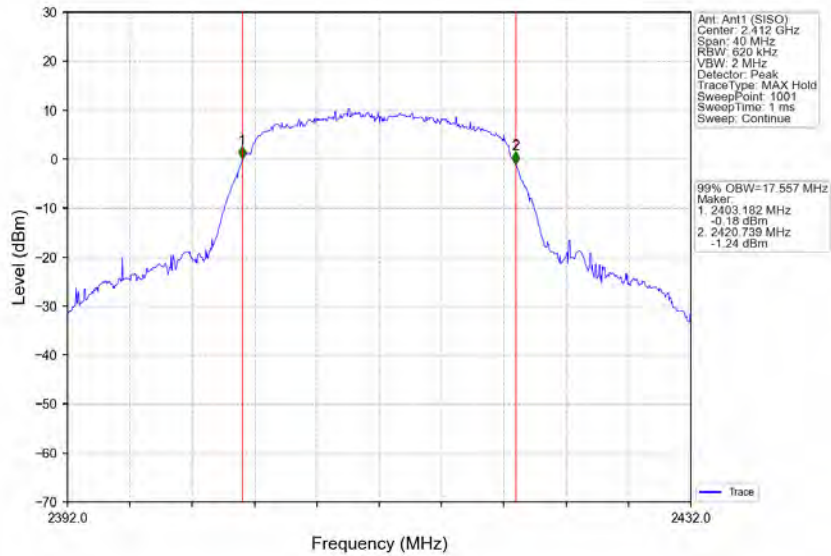
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



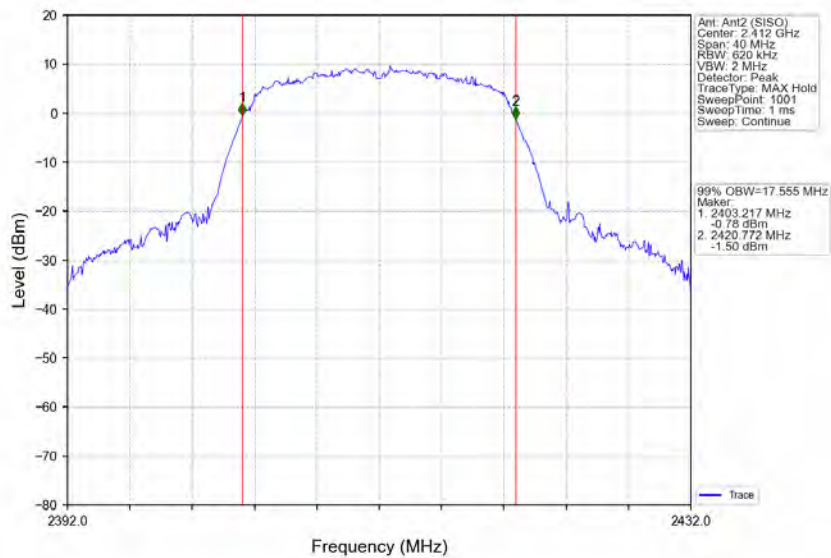
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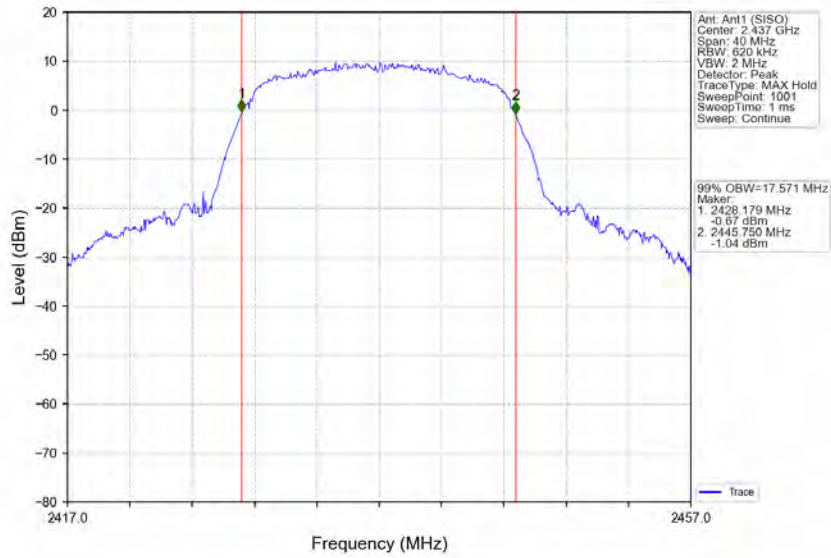
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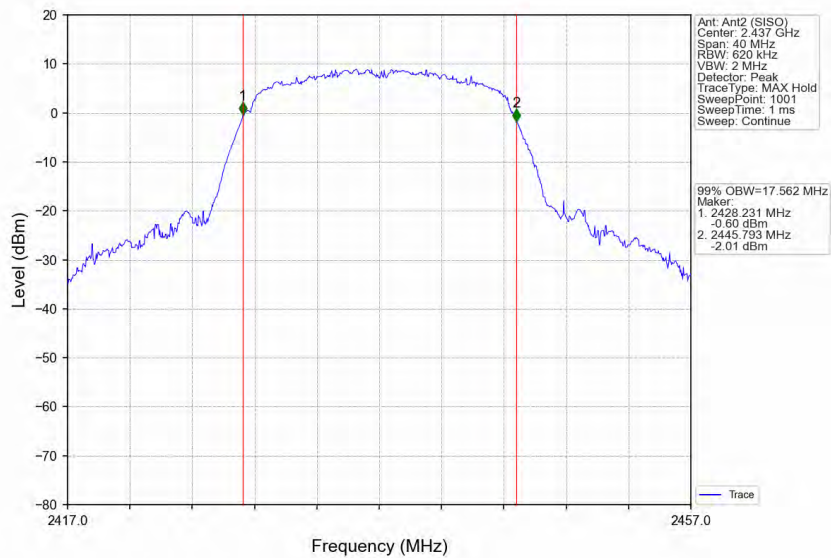
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



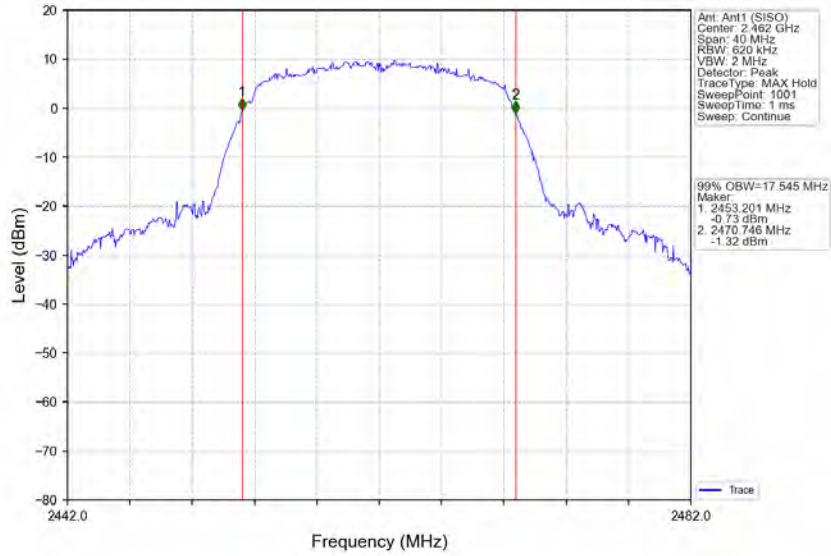
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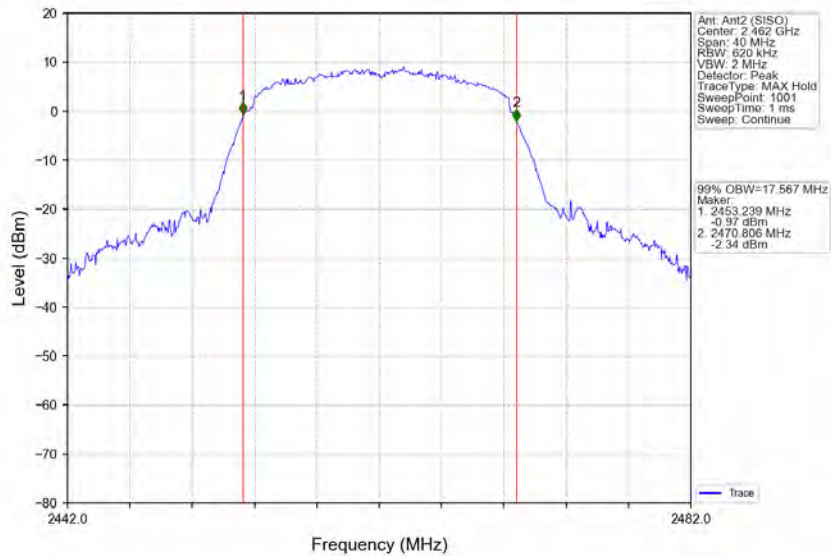
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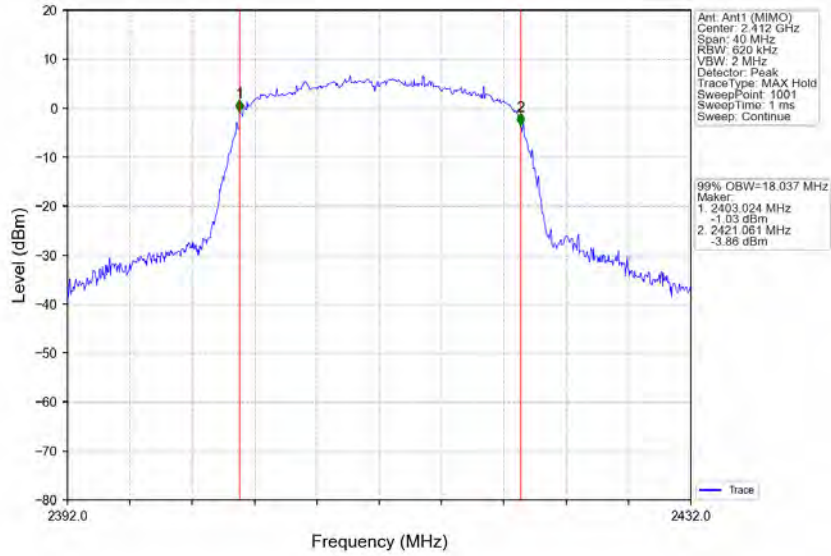
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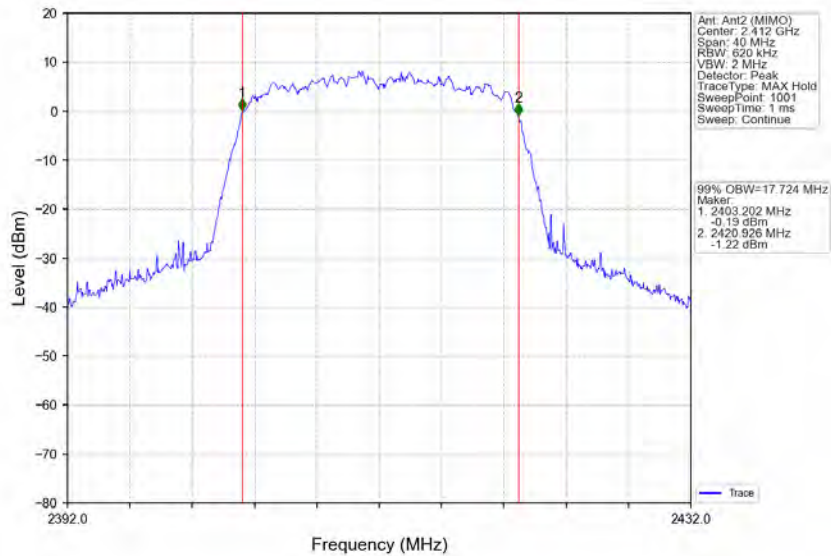
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



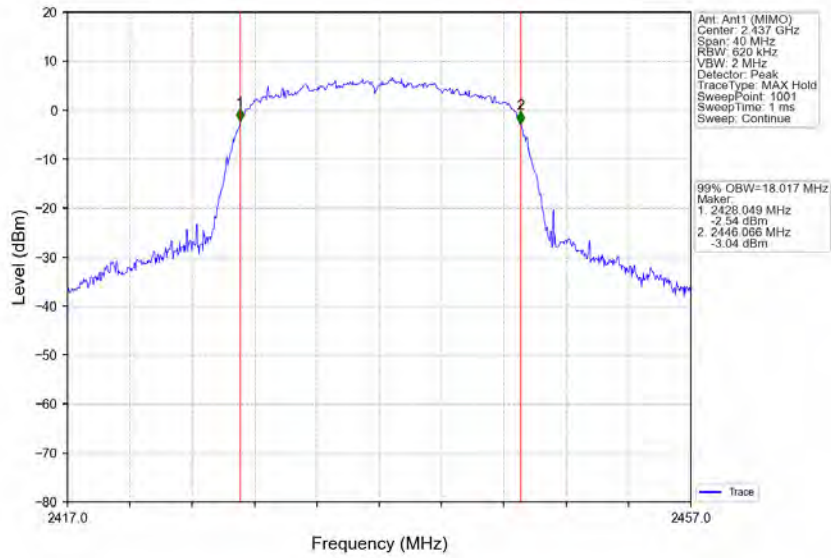
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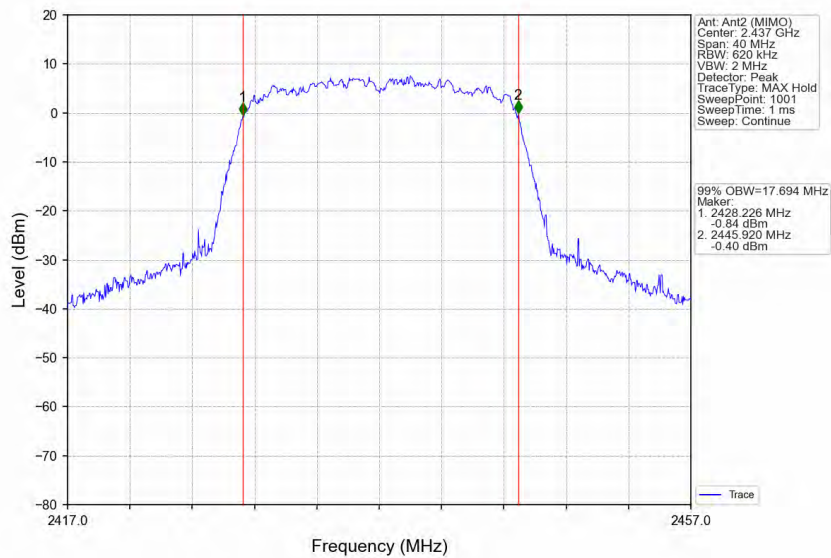
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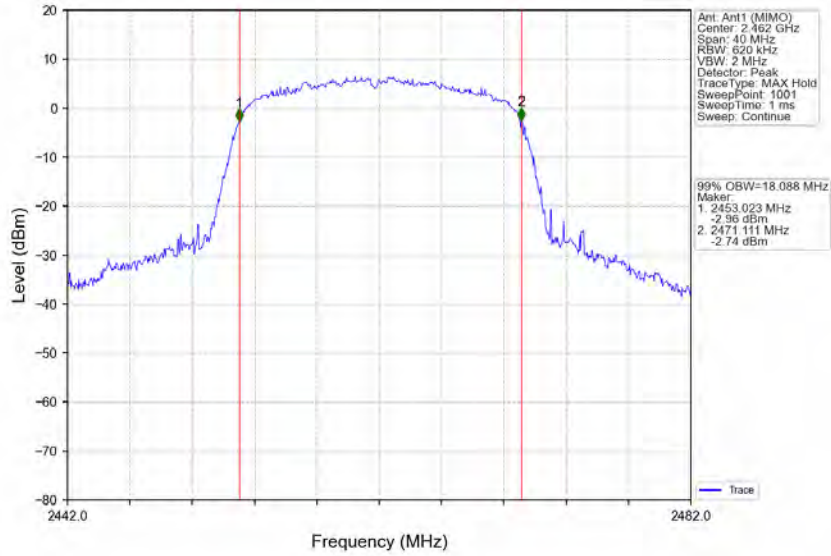
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



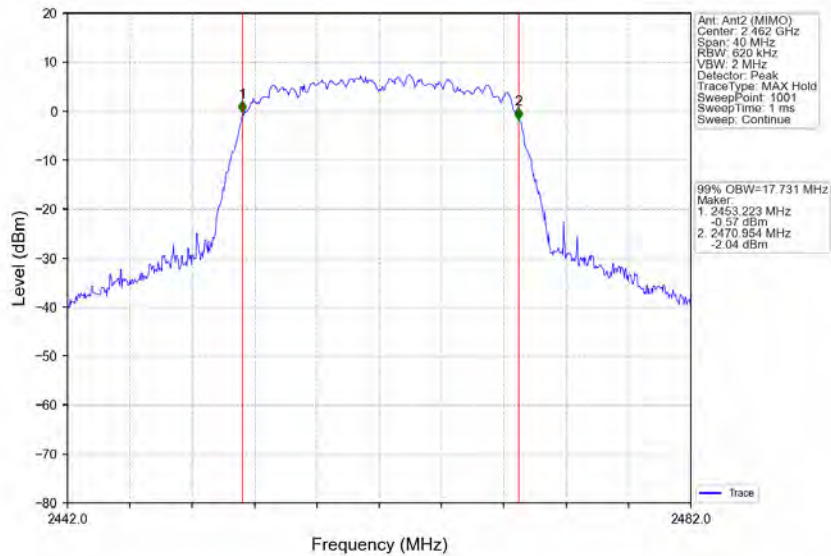
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

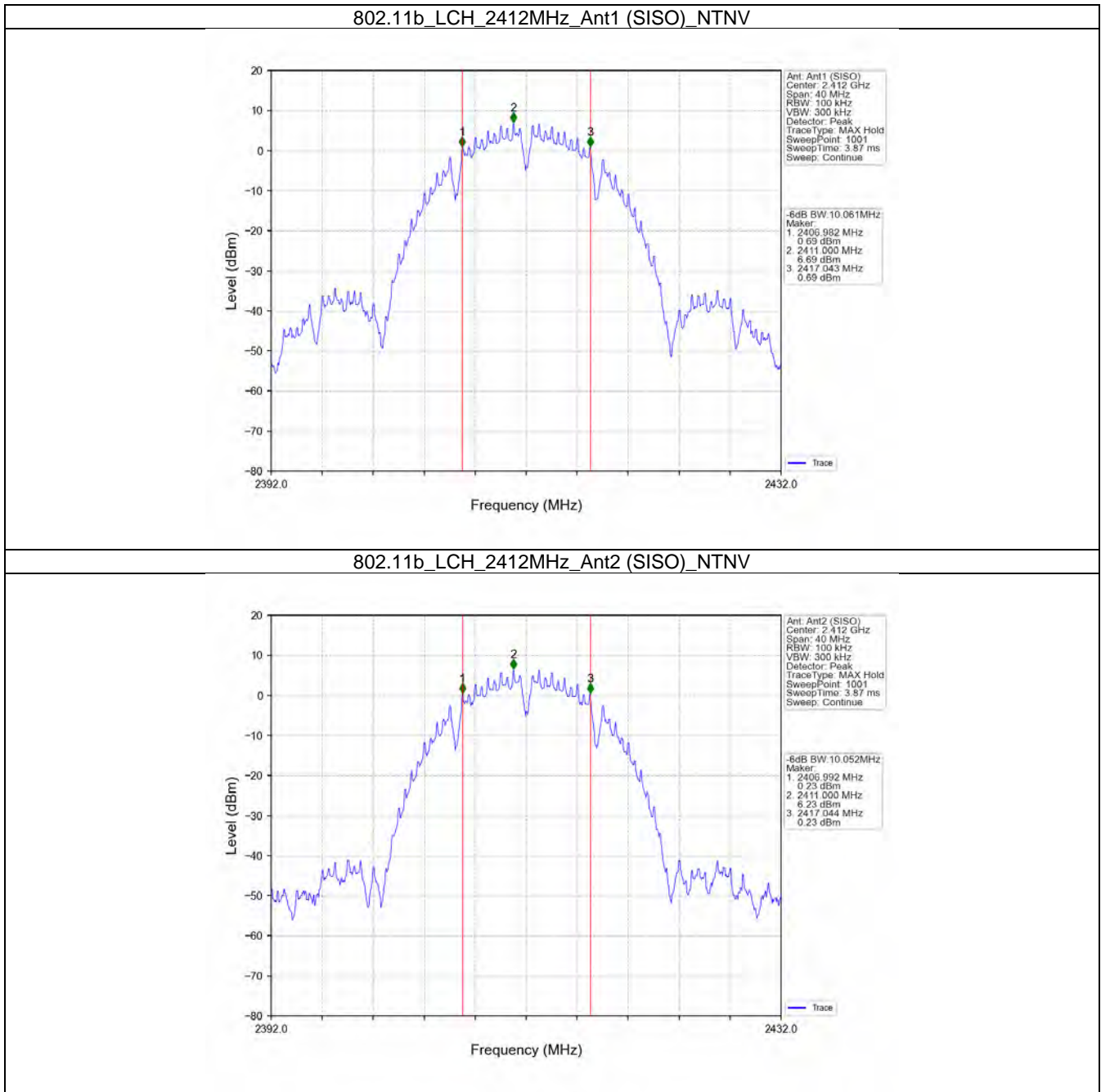
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.061	>=0.5	Pass
			2	10.052	>=0.5	Pass
		2437	1	10.059	>=0.5	Pass
			2	10.054	>=0.5	Pass
		2462	1	10.059	>=0.5	Pass
			2	10.051	>=0.5	Pass
802.11g	SISO	2412	1	15.168	>=0.5	Pass
			2	15.111	>=0.5	Pass
		2437	1	15.187	>=0.5	Pass
			2	15.182	>=0.5	Pass
		2462	1	15.168	>=0.5	Pass
			2	15.176	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.155	>=0.5	Pass
			2	15.138	>=0.5	Pass
		2437	1	15.162	>=0.5	Pass
			2	15.174	>=0.5	Pass
		2462	1	15.164	>=0.5	Pass
			2	15.173	>=0.5	Pass



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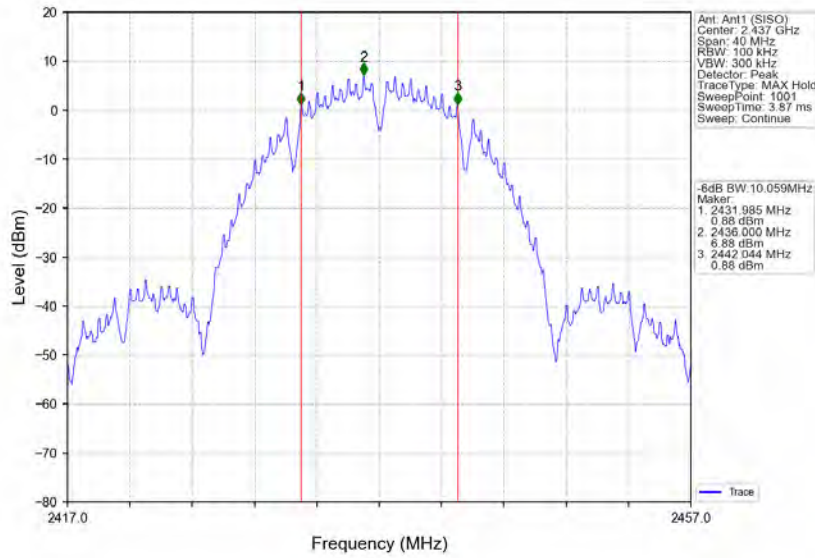
2.2.2 Test Graph



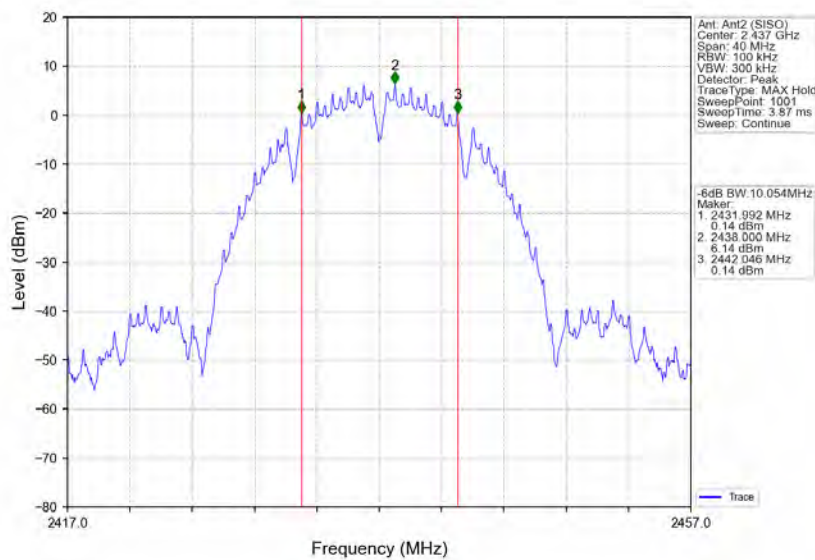
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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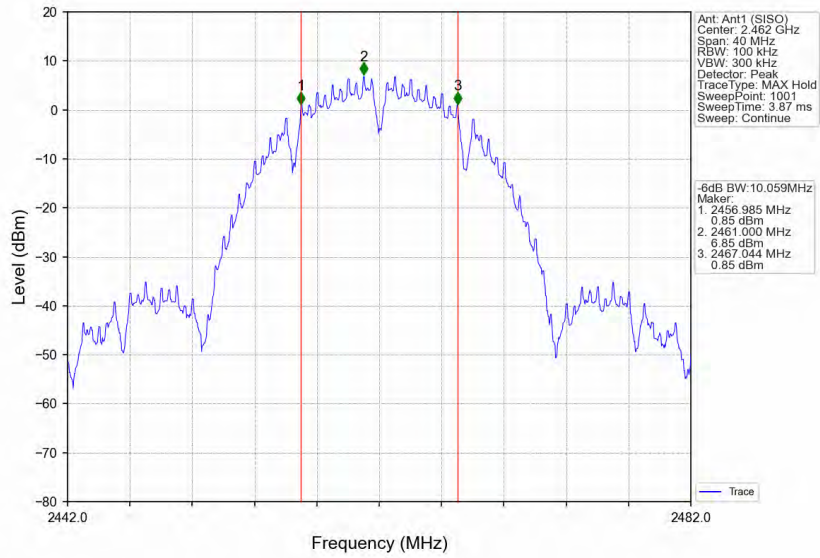
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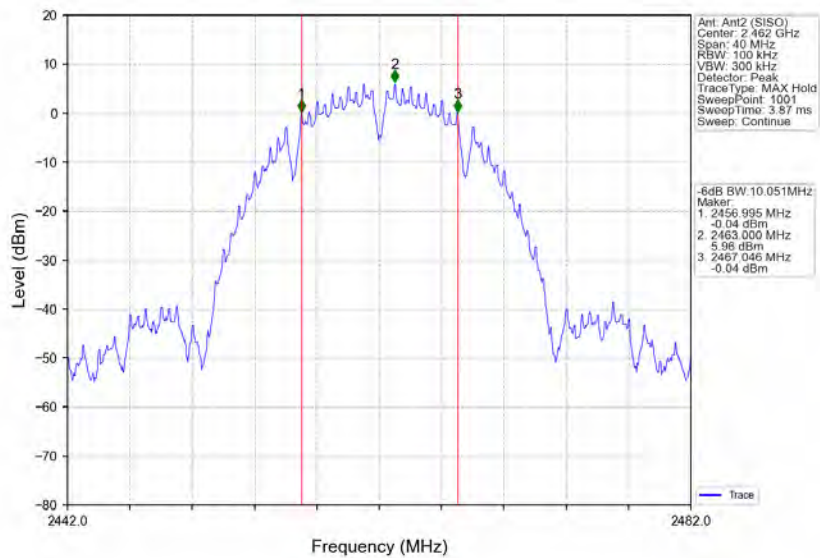
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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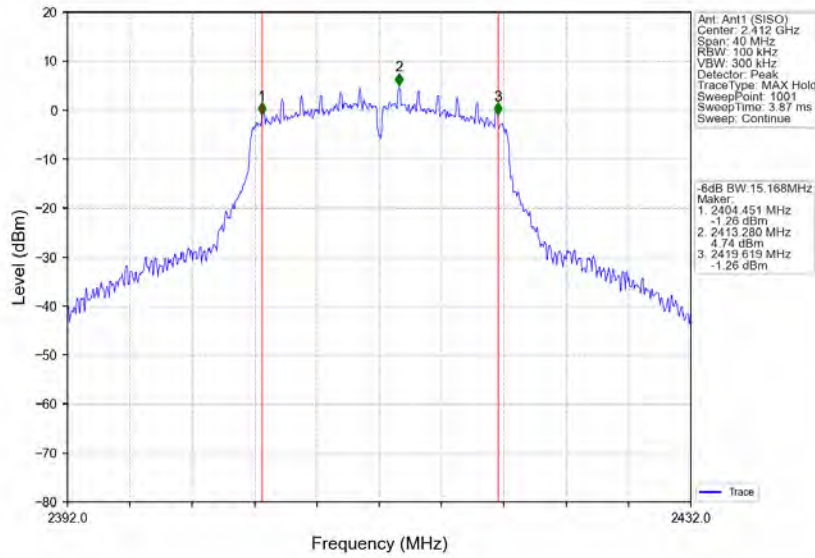
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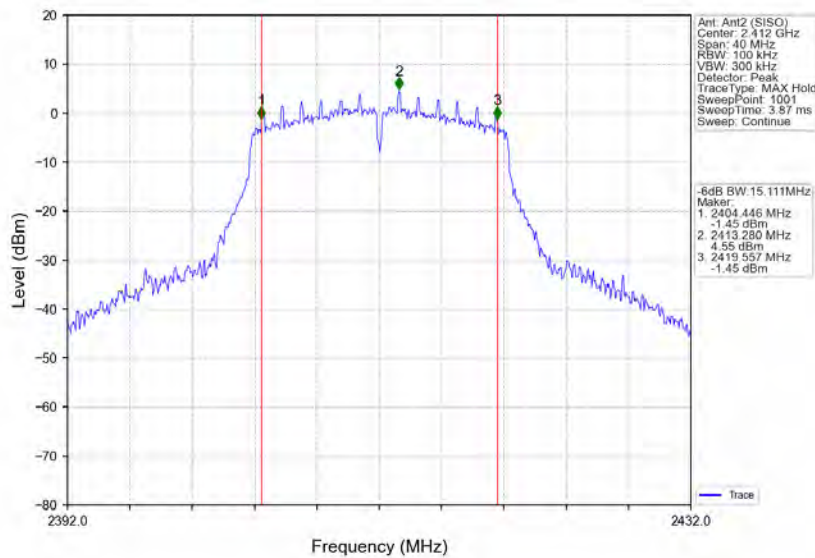
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



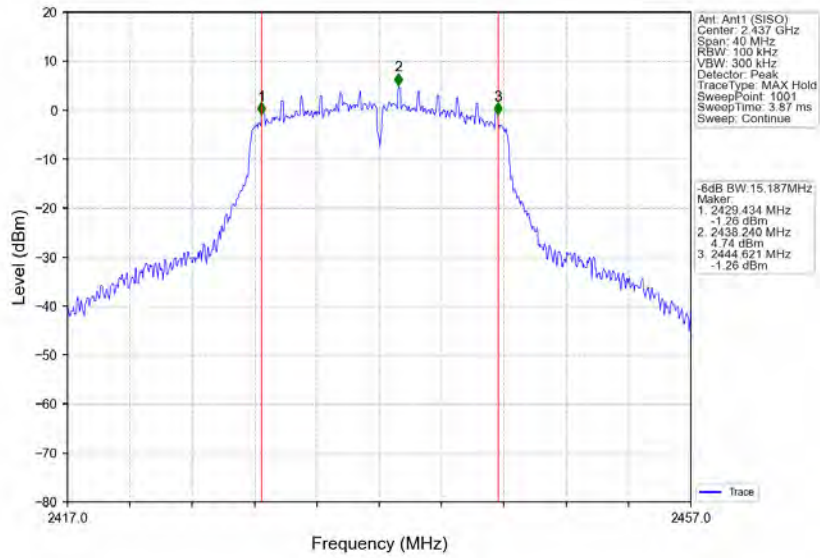
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



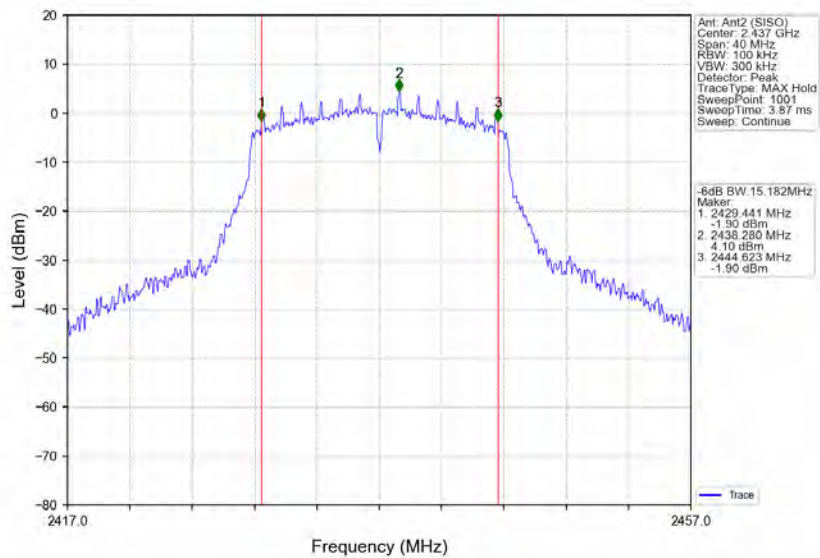
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



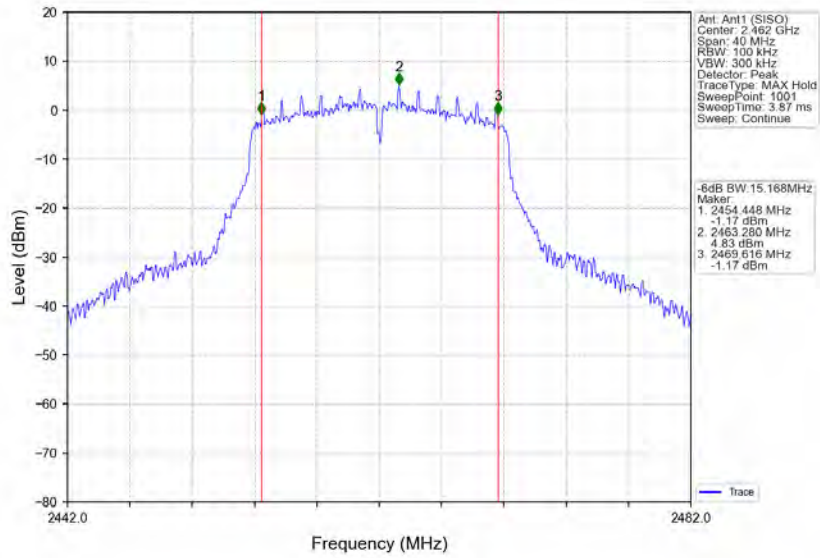
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



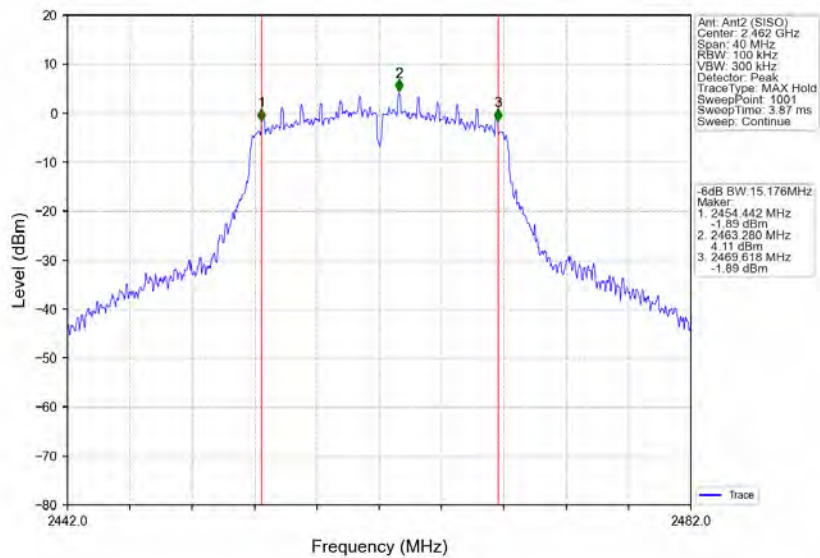
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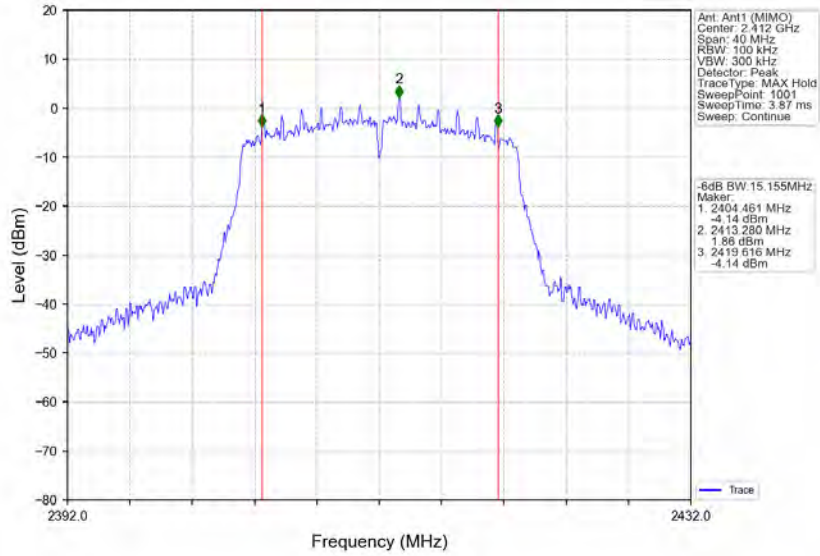
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



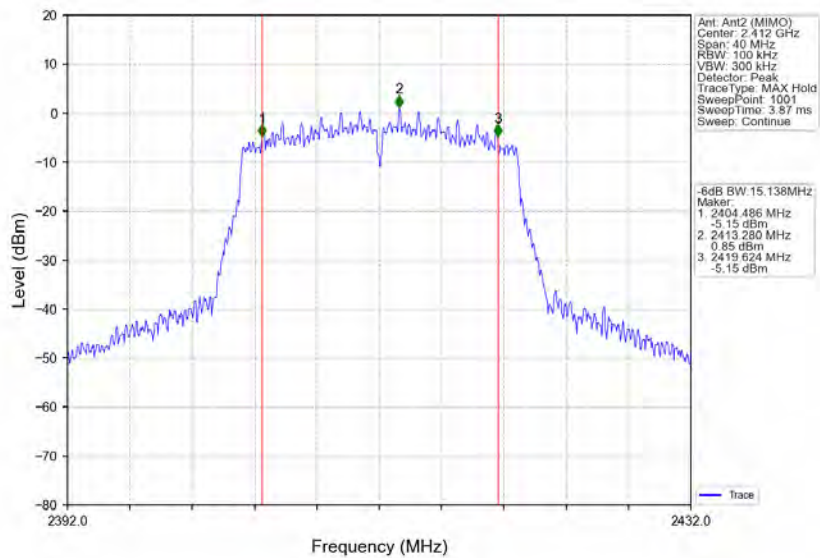
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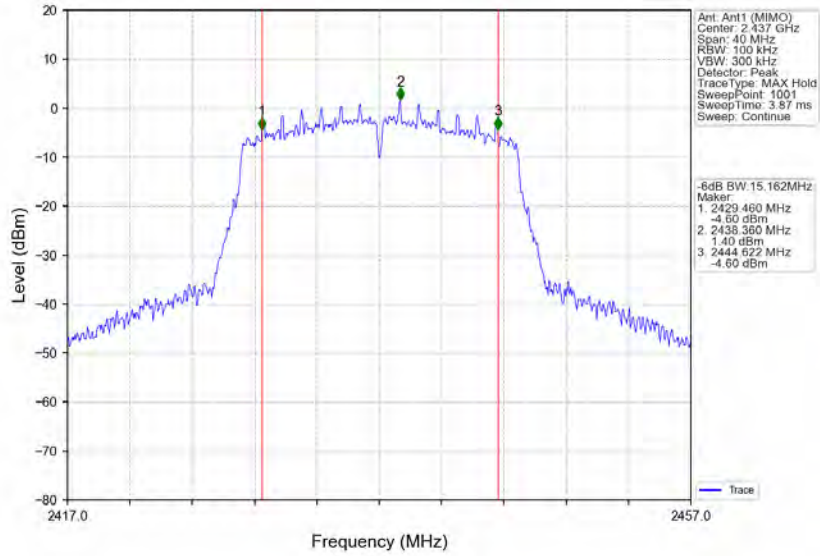
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



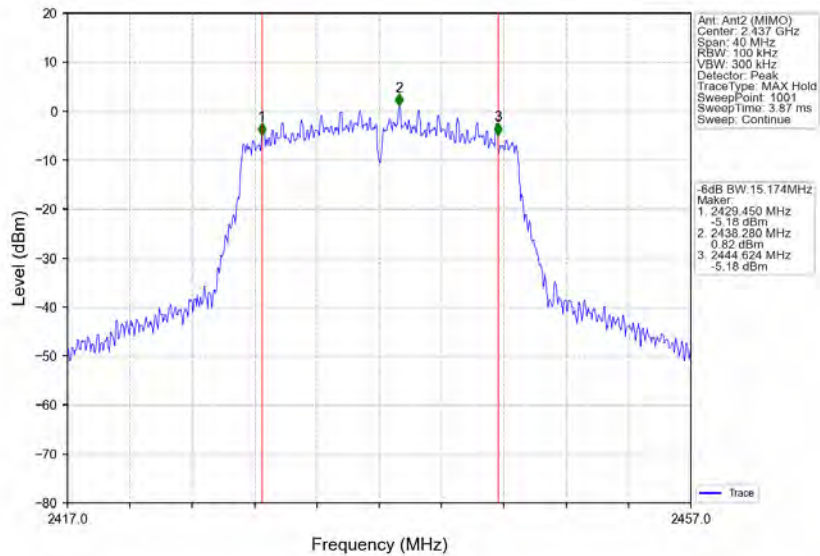
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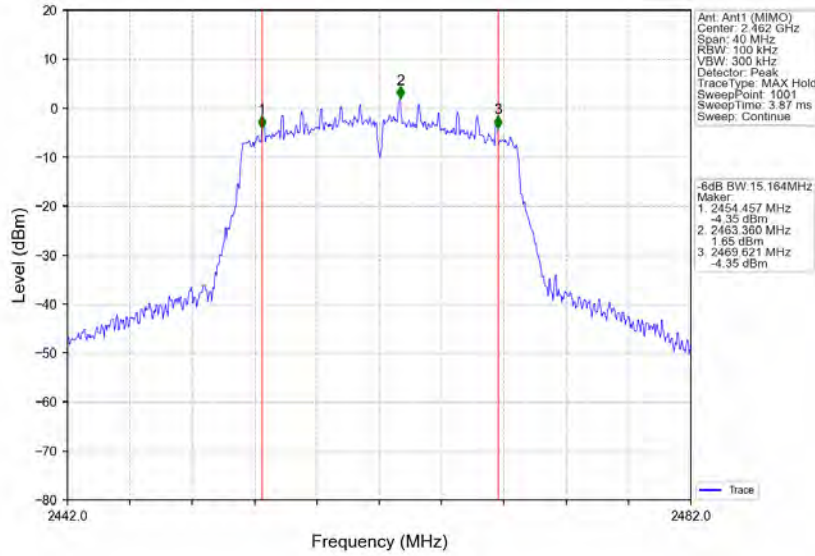
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



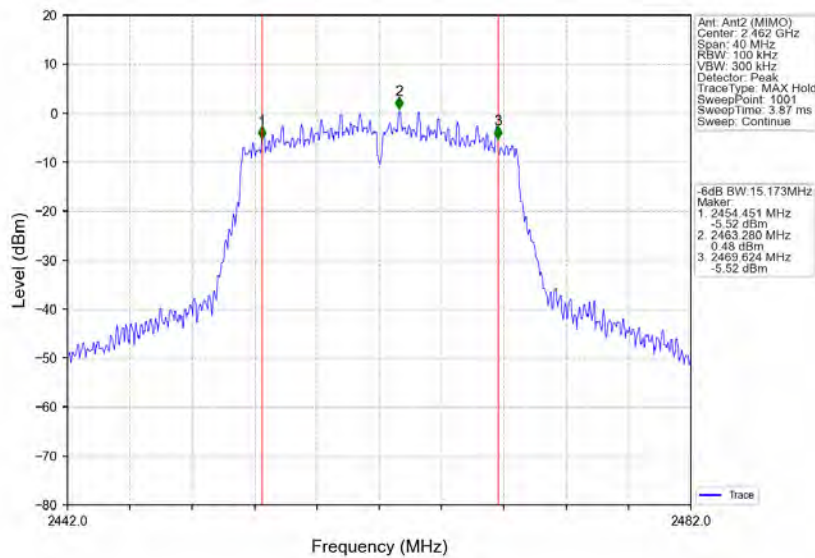
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	15.17	14.69	/	<=30	Pass
		2437	15.34	14.62	/	<=30	Pass
		2462	15.34	14.45	/	<=30	Pass
802.11g	SISO	2412	14.61	14.22	/	<=30	Pass
		2437	14.67	14.07	/	<=30	Pass
		2462	14.64	13.80	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.25	10.75	14.02	<=30	Pass
		2437	11.30	10.70	14.02	<=30	Pass
		2462	11.24	10.40	13.85	<=30	Pass

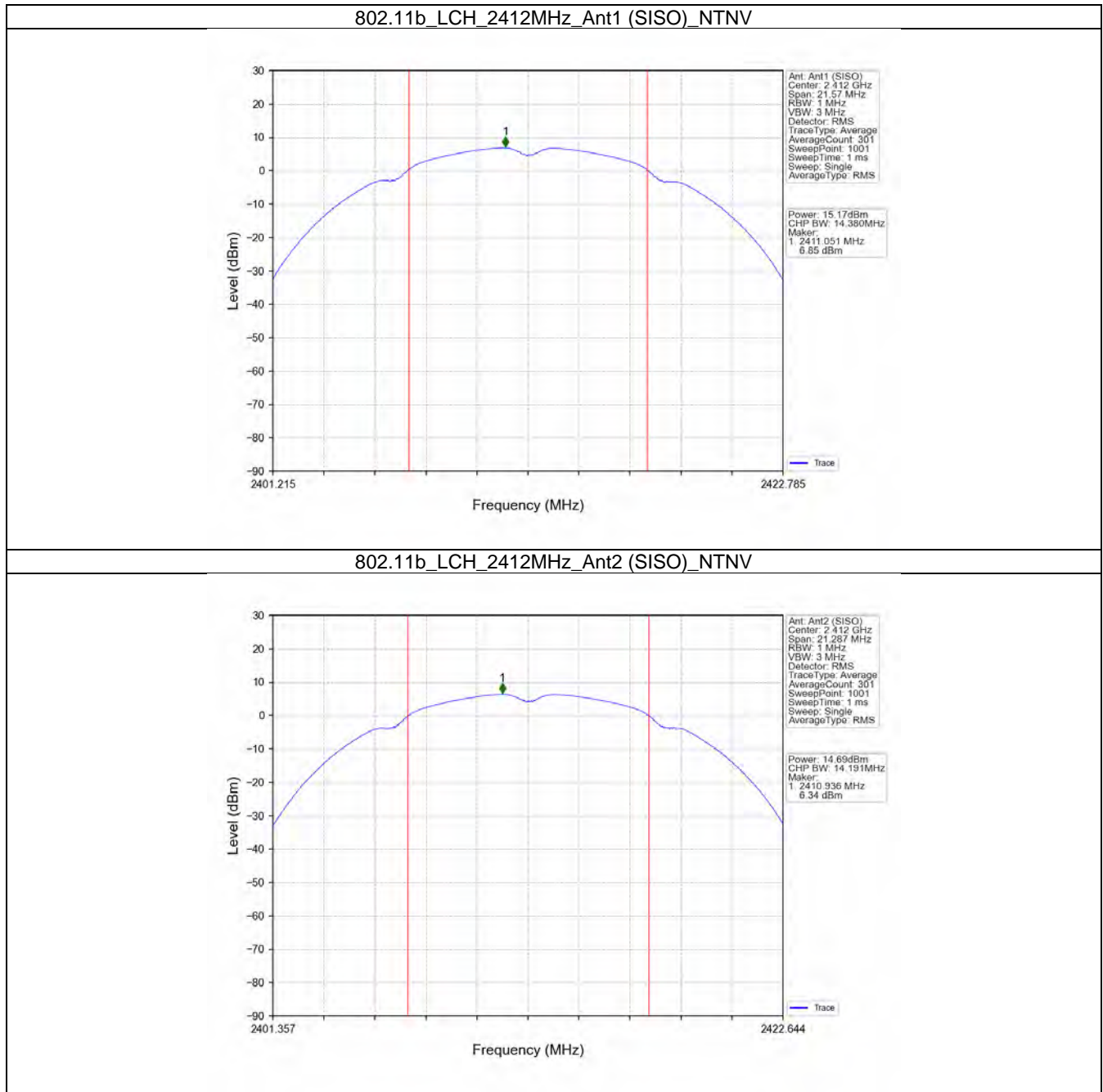
Note1: Antenna Gain: Ant1: 3.30dBi; Ant2: 3.20dBi;
 Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)



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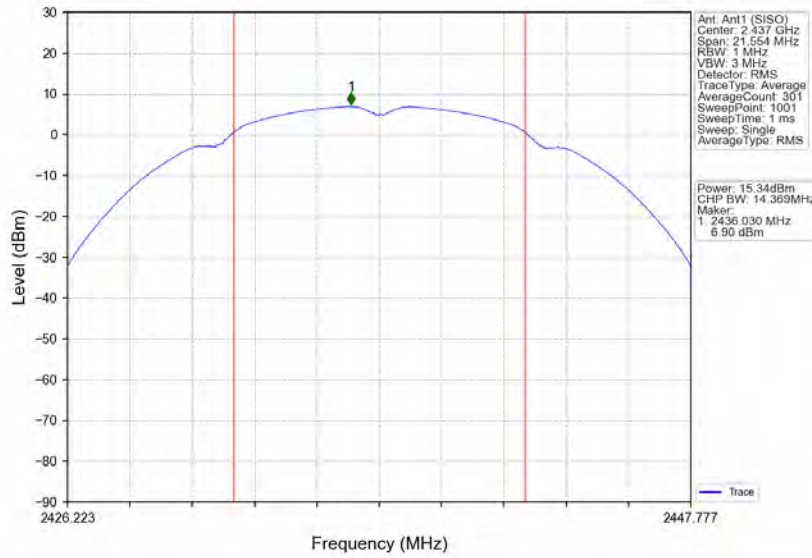
3.1.2 Test Graph



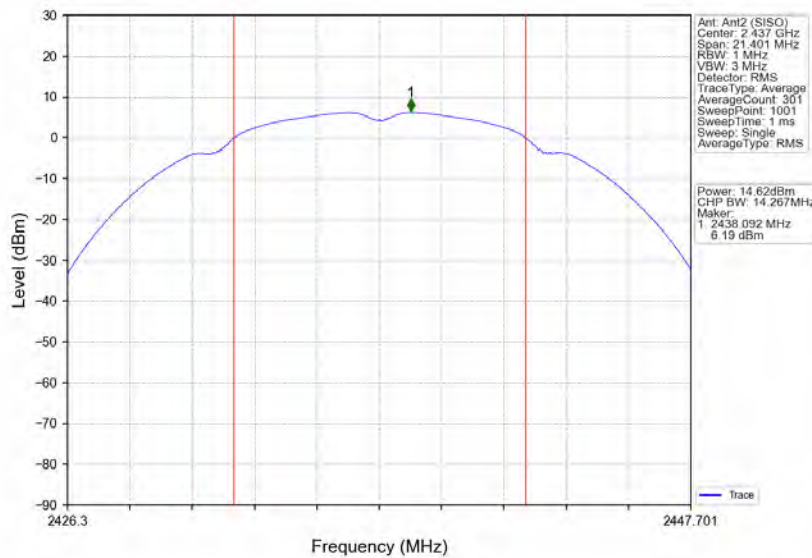
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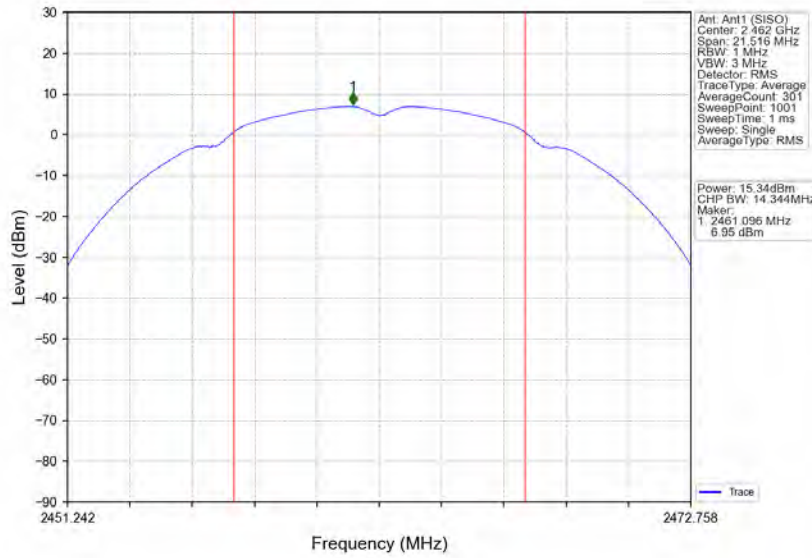
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



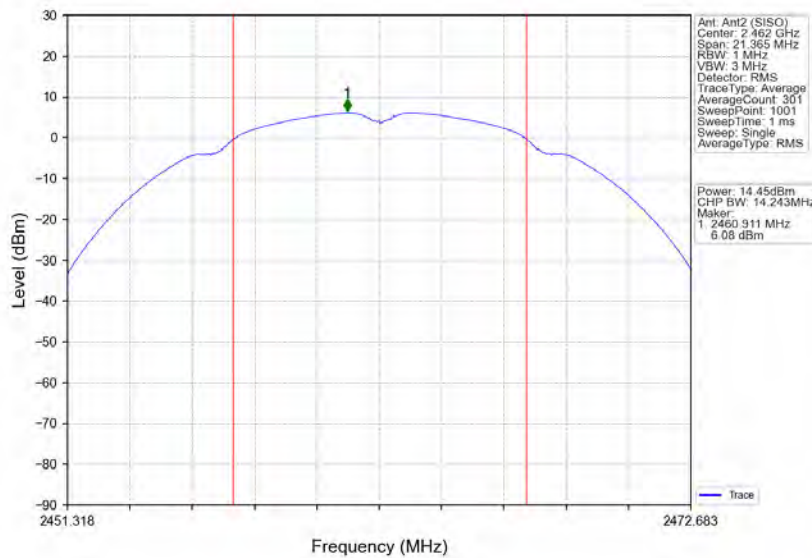
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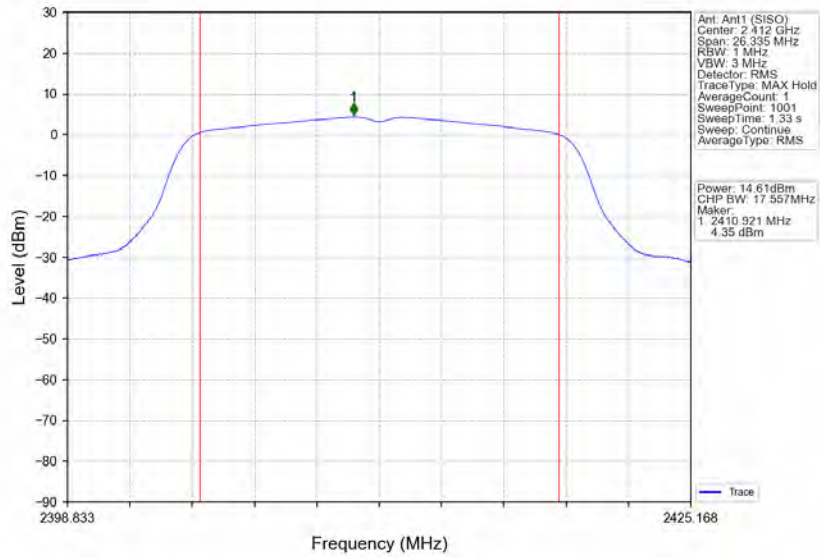
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



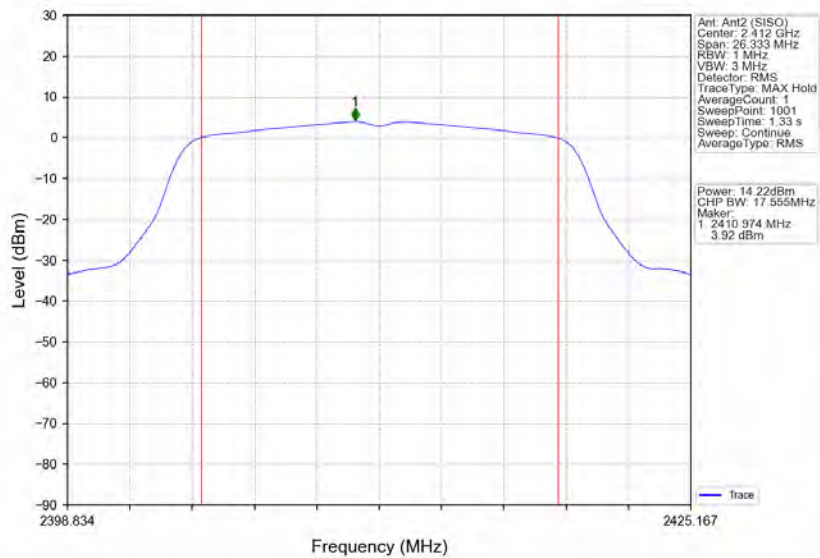
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



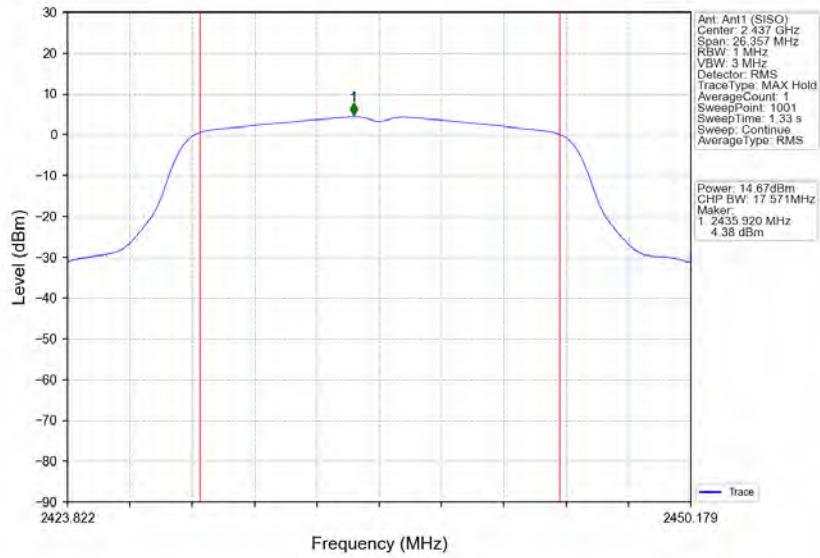
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



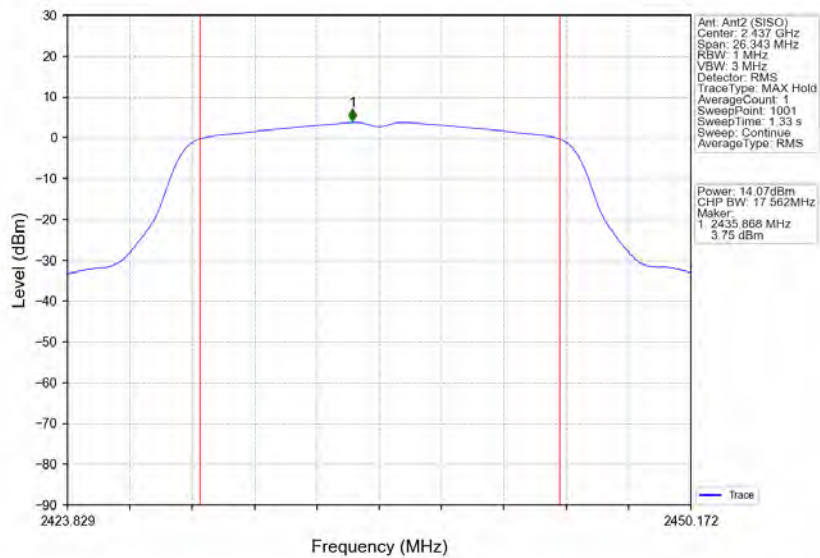
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



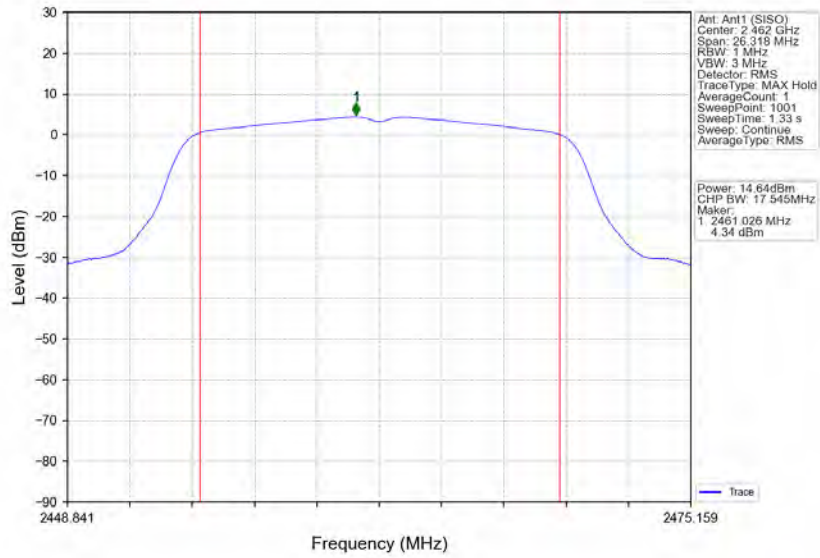
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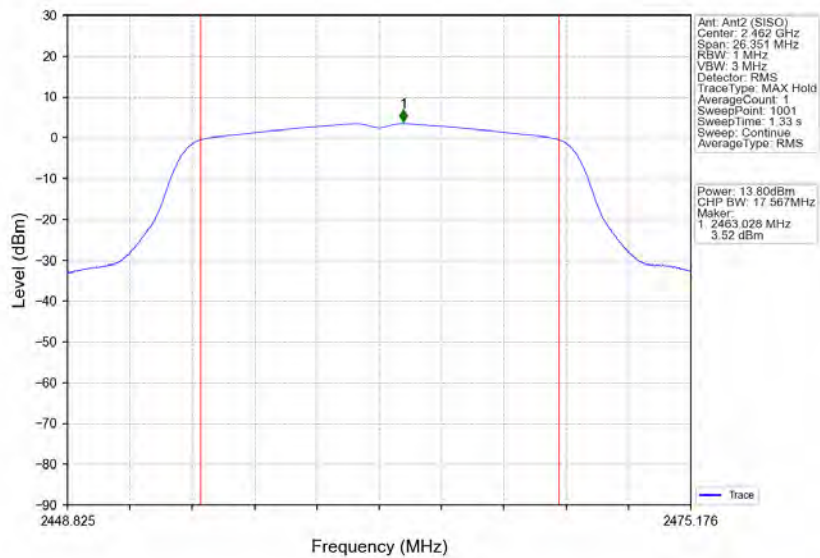
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



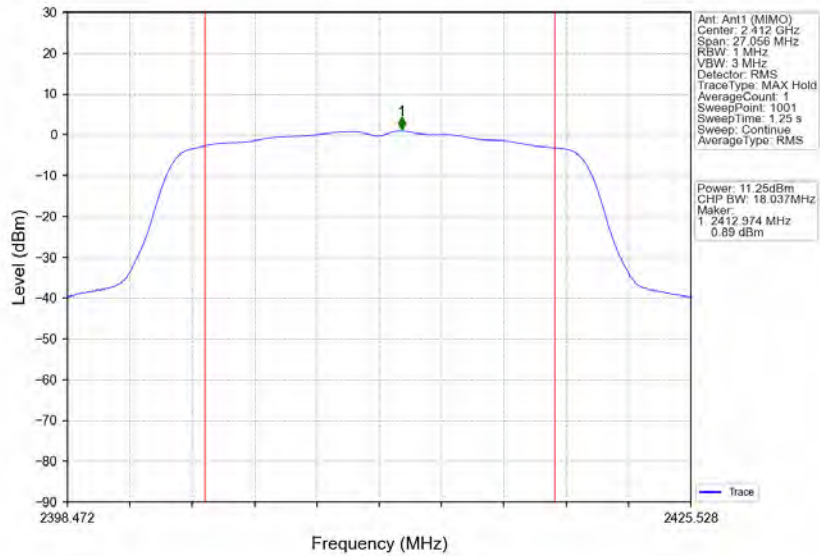
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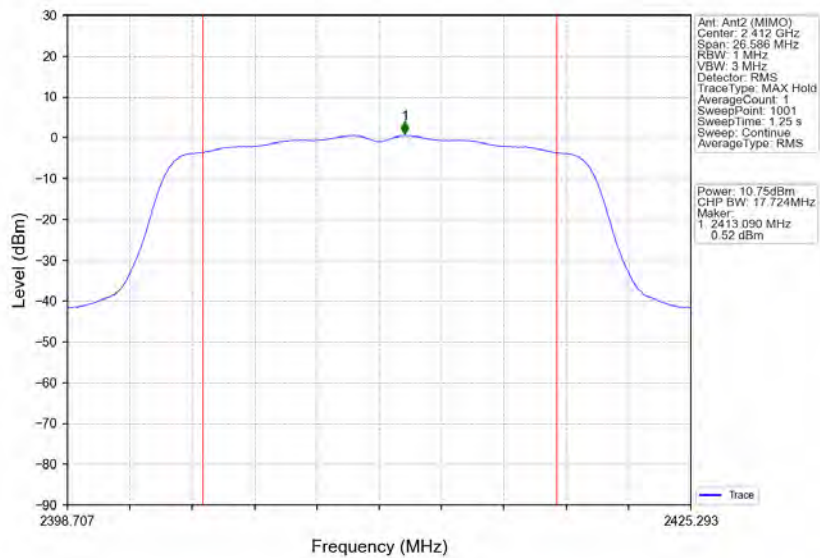
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



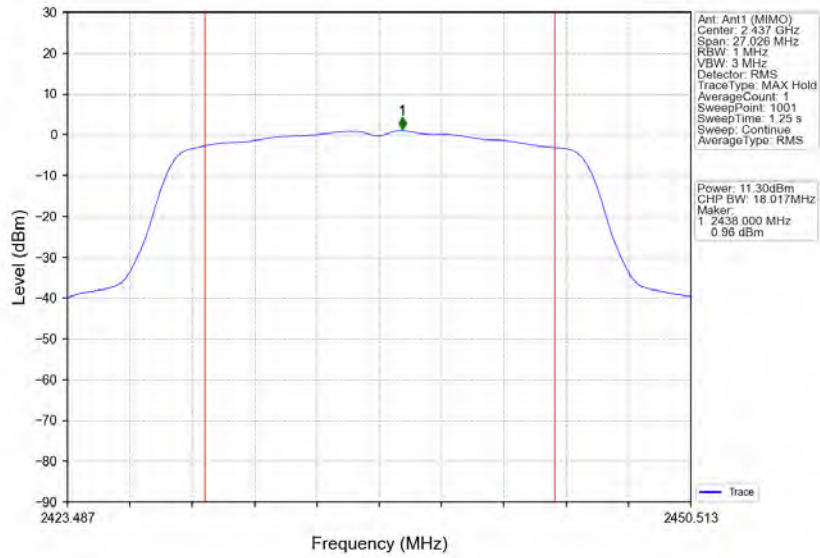
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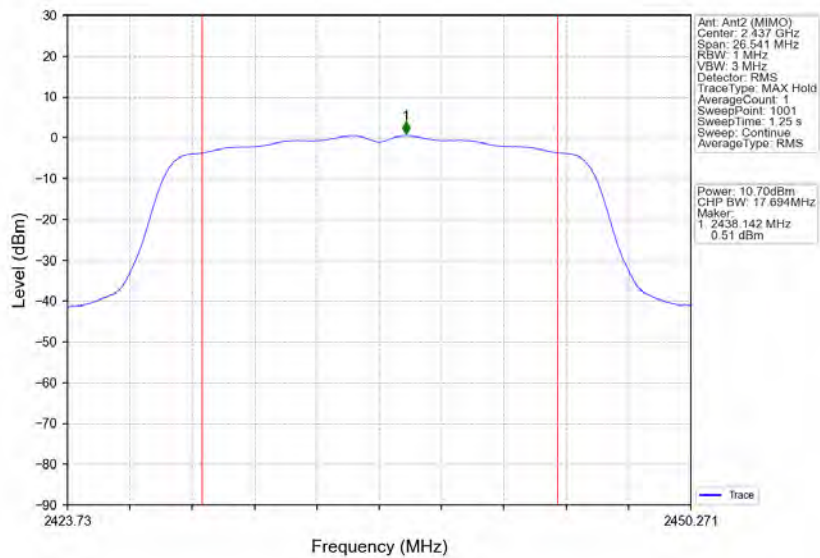
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



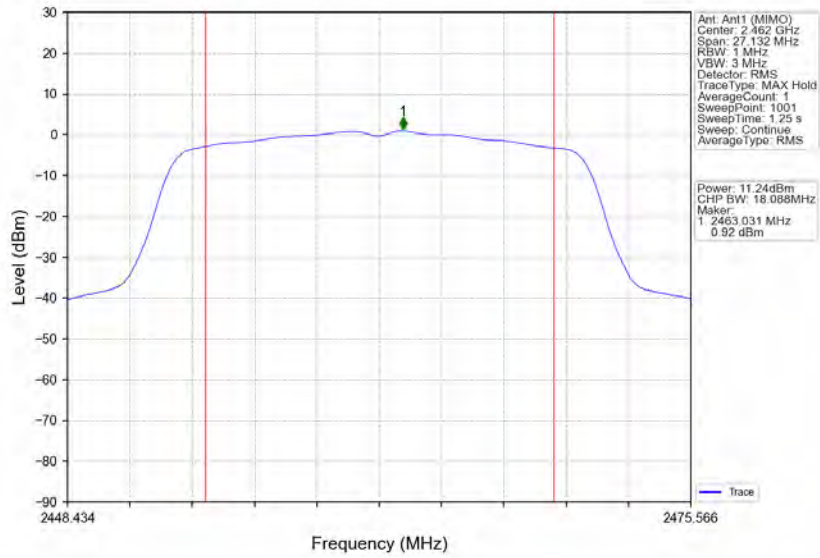
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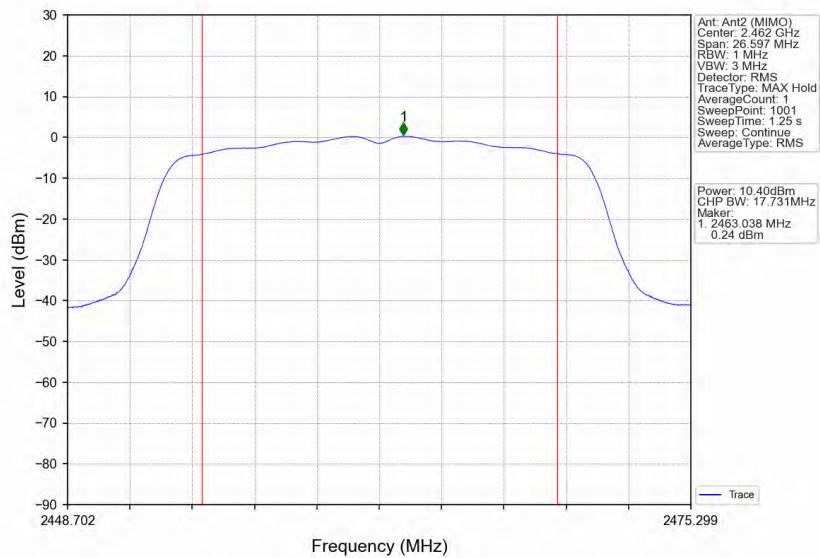
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4. Maximum Power Spectral Density

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	-5.20	-8.60	/	<=8	Pass
		2437	-6.64	-3.62	/	<=8	Pass
		2462	-6.43	-2.84	/	<=8	Pass
802.11g	SISO	2412	-11.56	-12.55	/	<=8	Pass
		2437	-11.31	-11.34	/	<=8	Pass
		2462	-11.34	-12.18	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.84	-15.37	-12.87	<=8	Pass
		2437	-14.90	-15.15	-12.80	<=8	Pass
		2462	-15.44	-15.11	-12.95	<=8	Pass

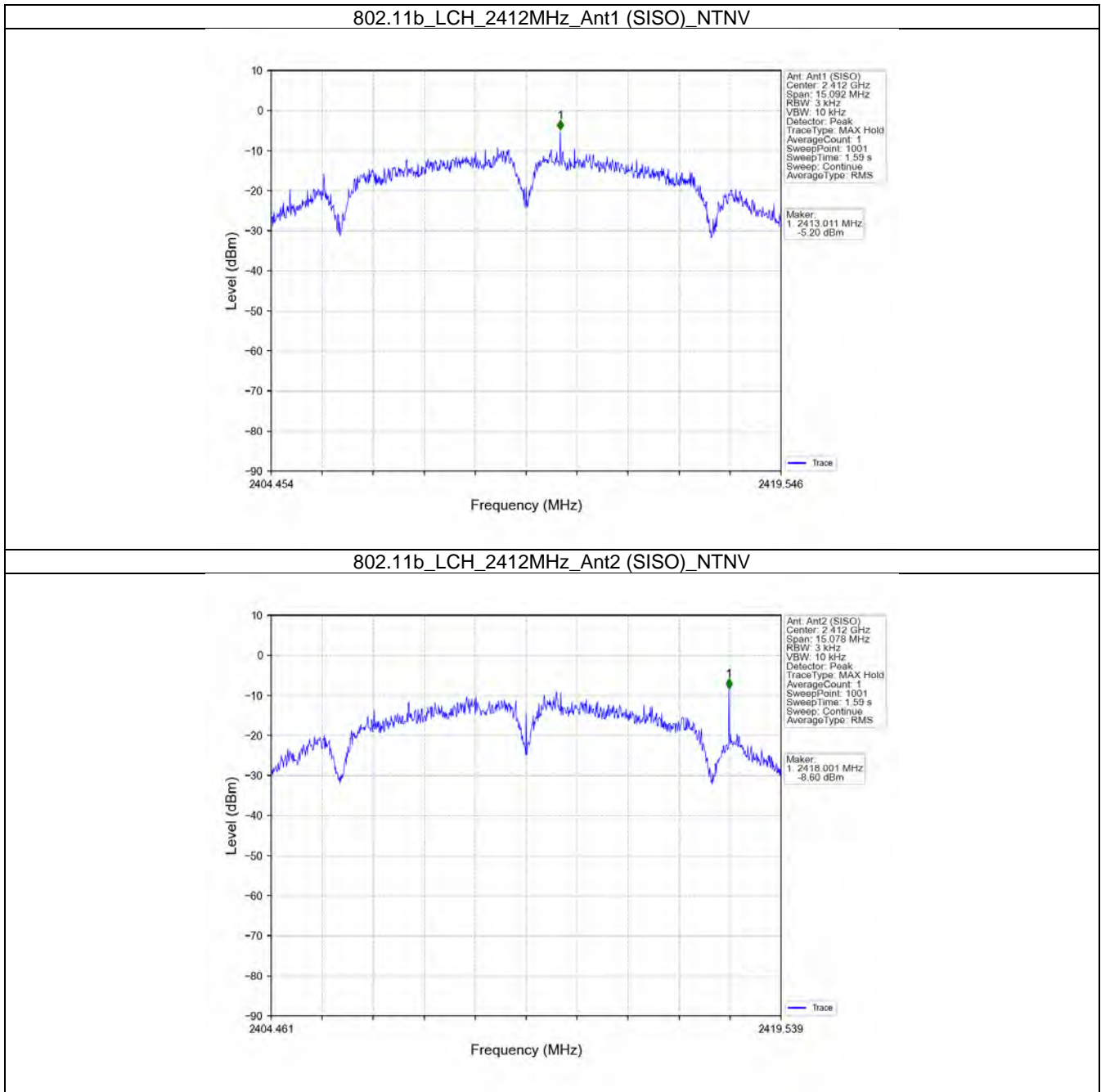
Note1: Antenna Gain: Ant1: 3.30dBi; Ant2: 3.20dBi;



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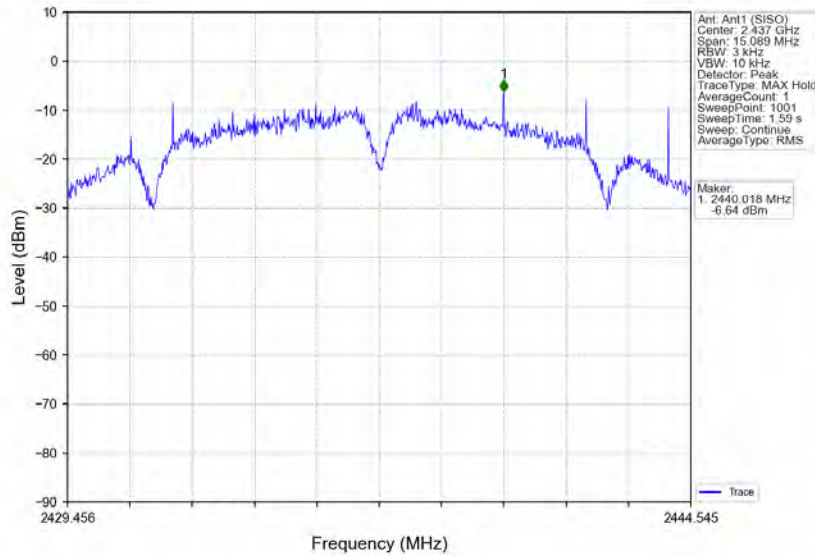
4.1.2 Test Graph



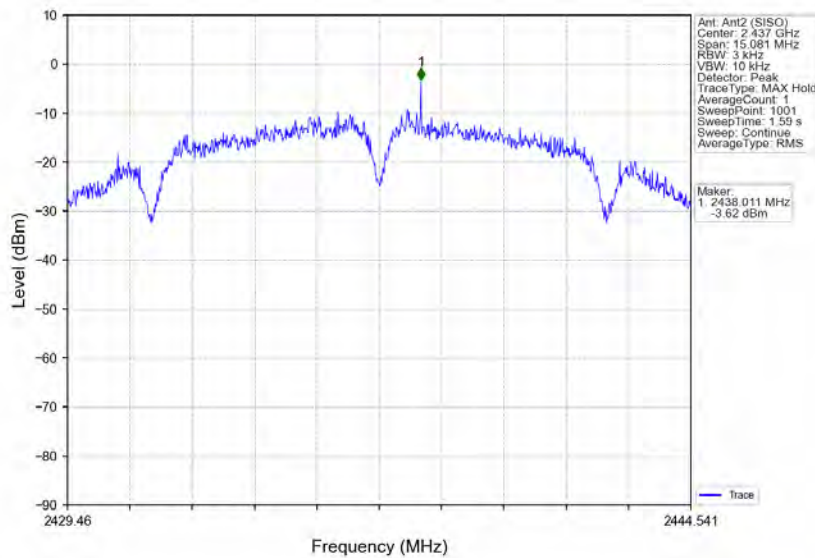
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



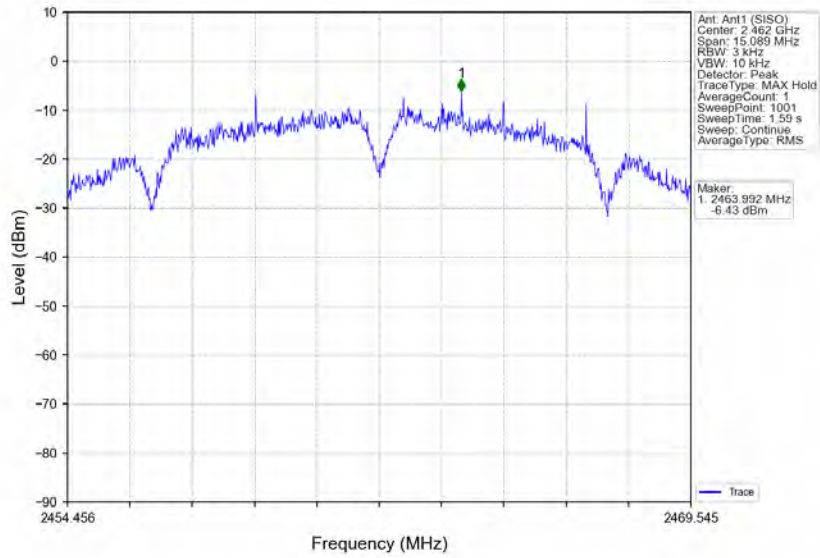
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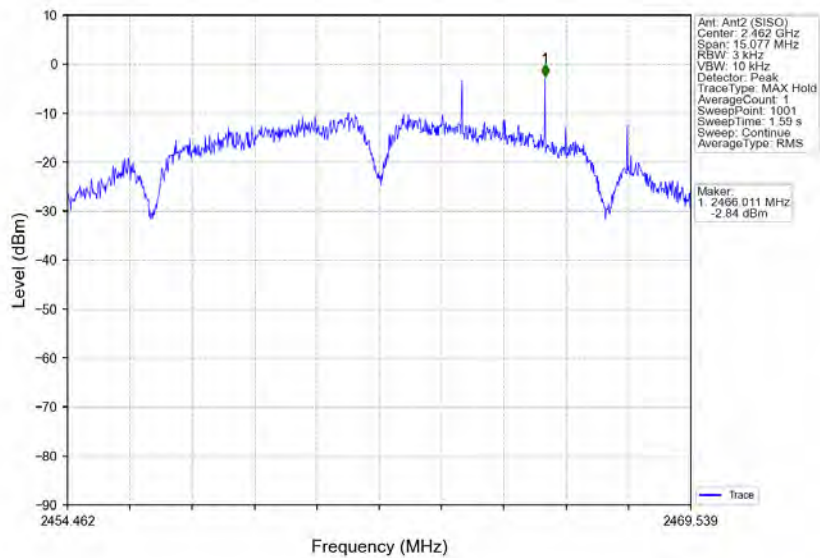
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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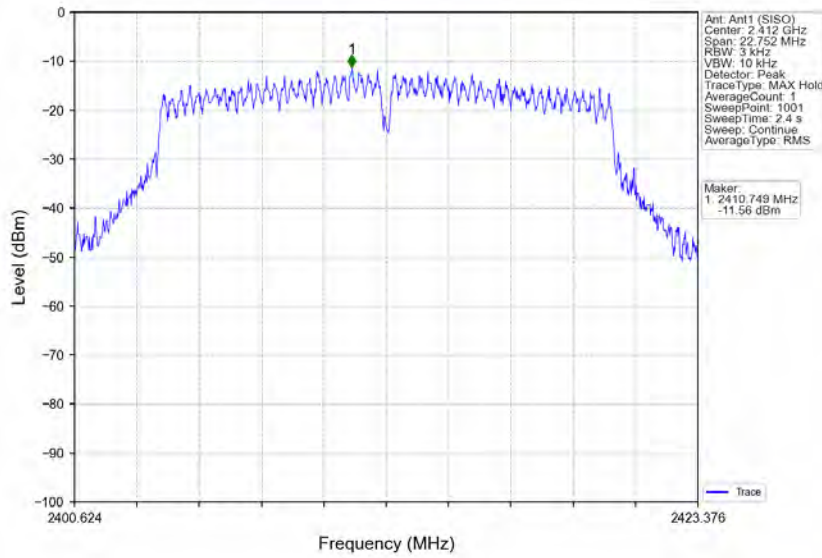
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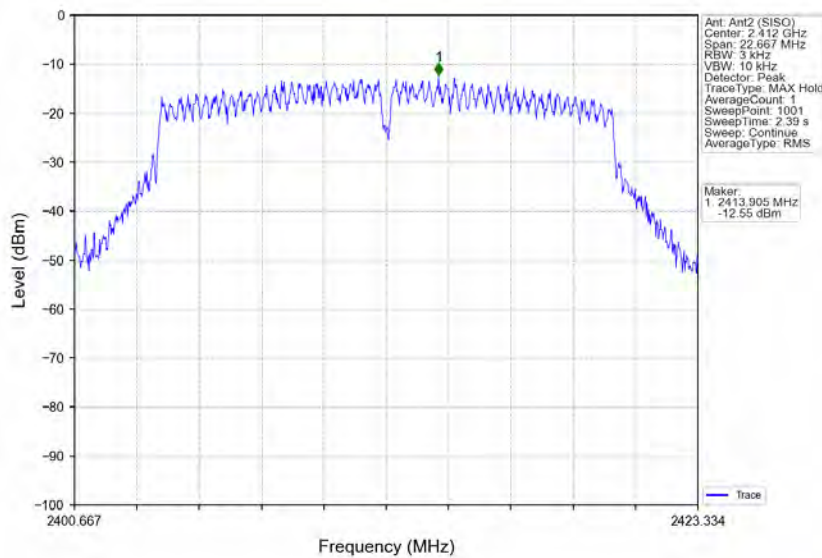
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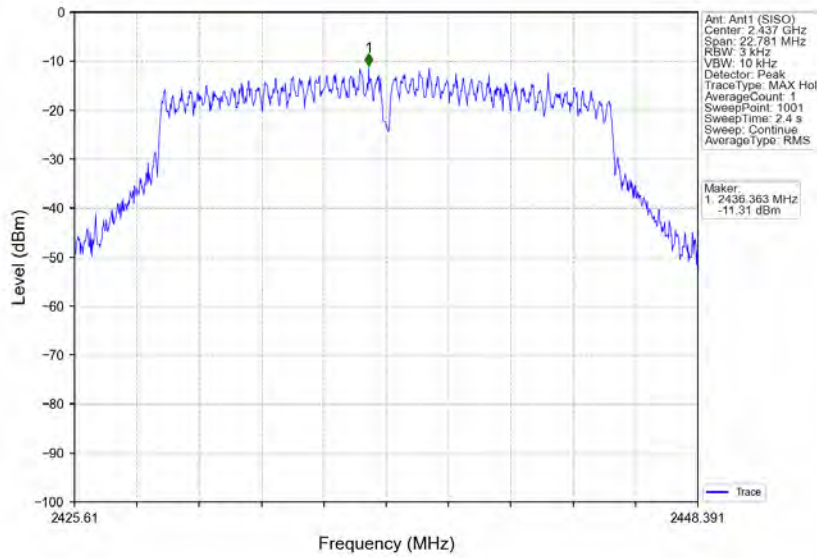
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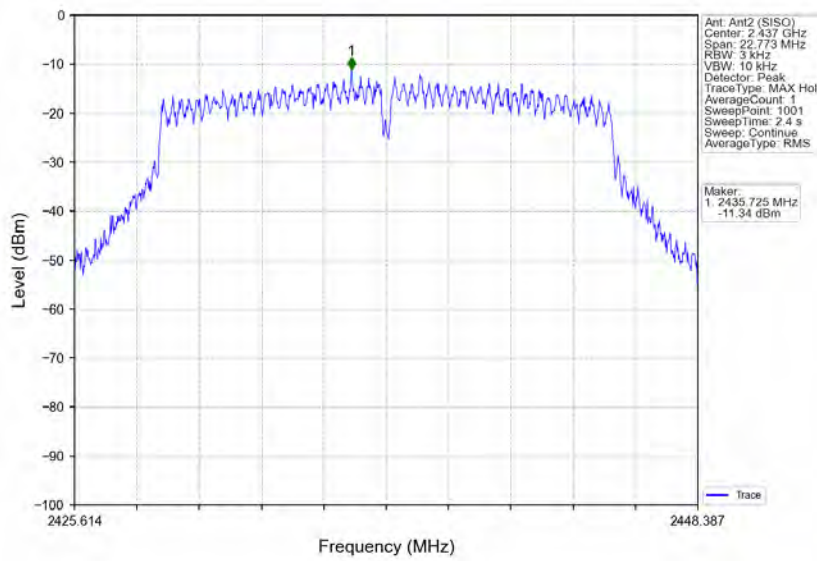
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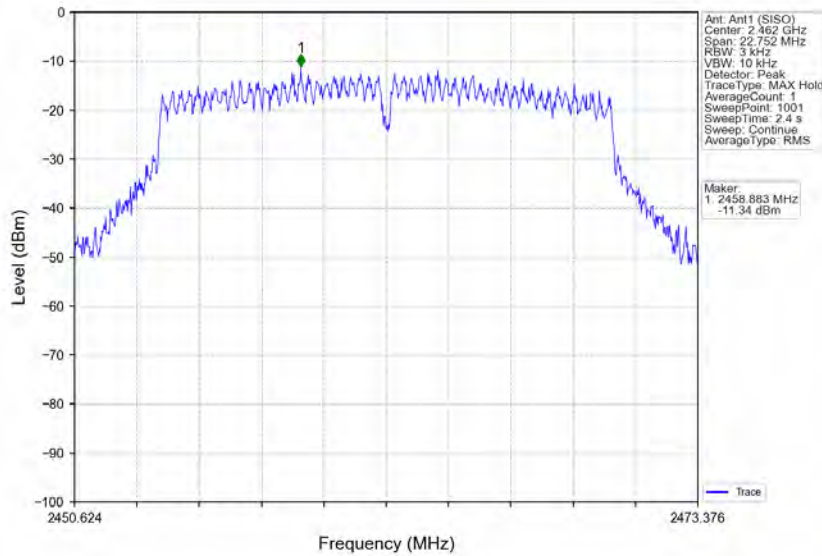
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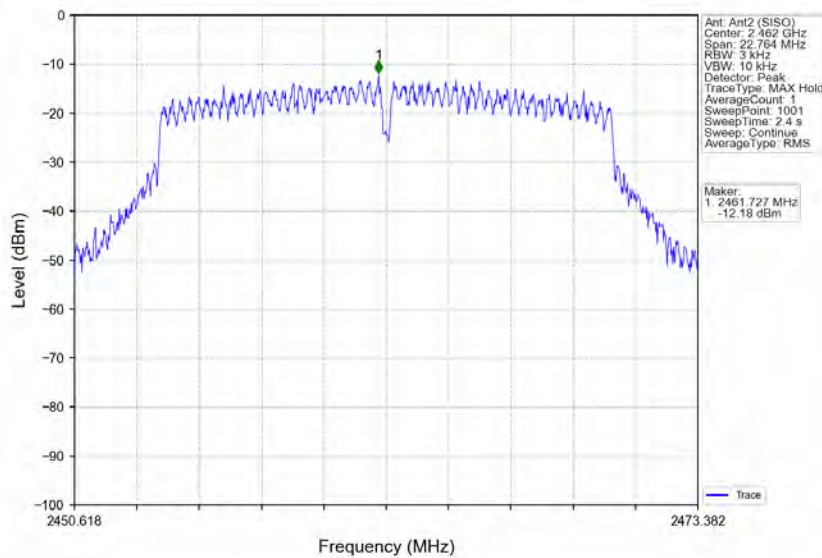
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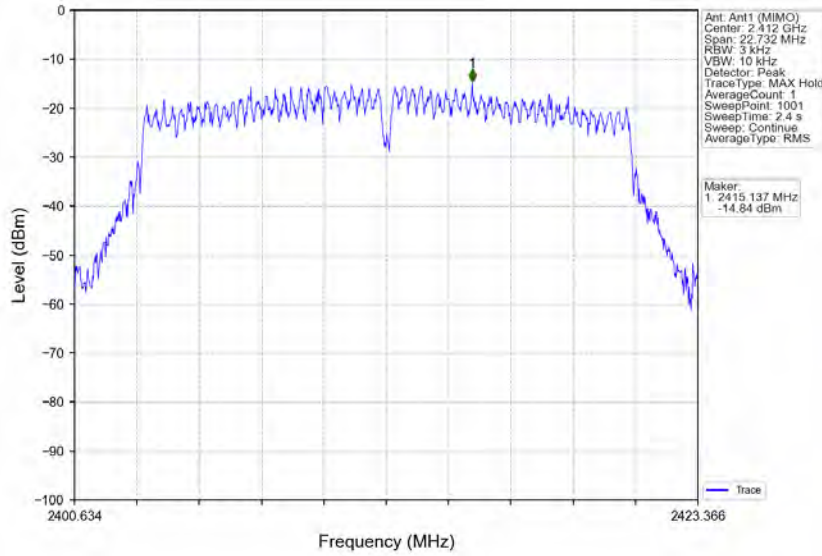
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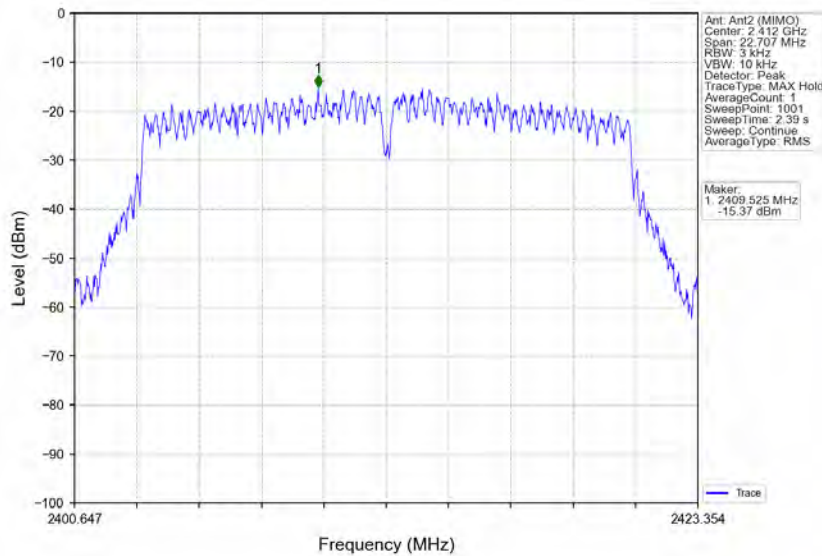
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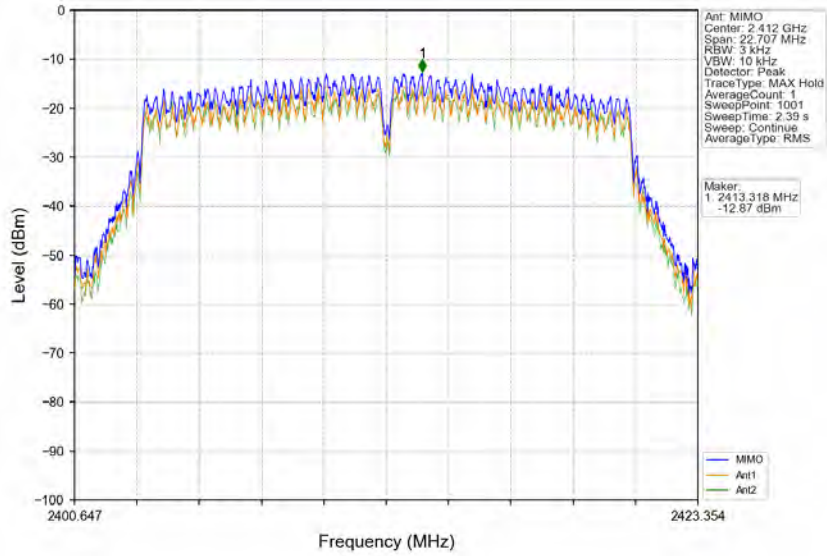
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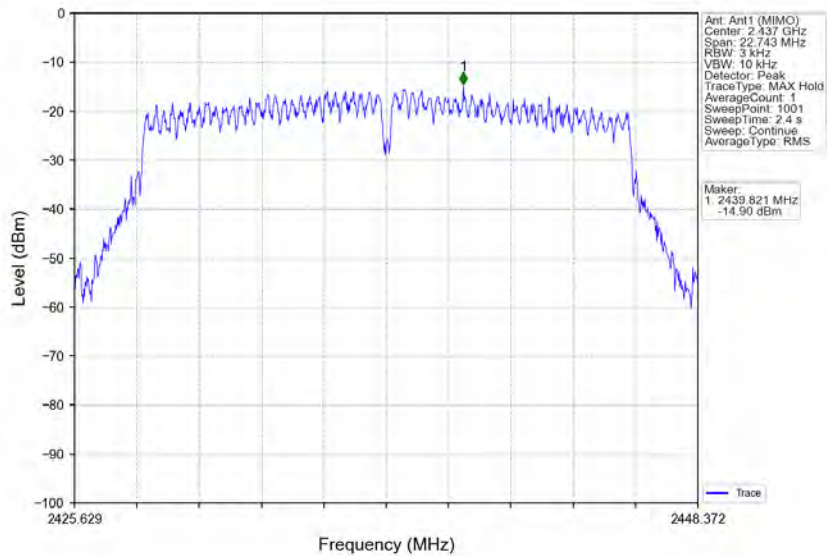
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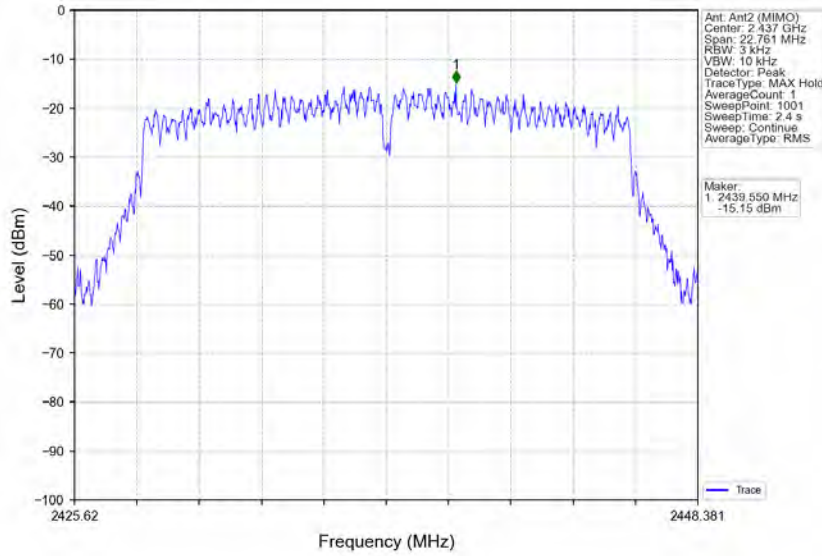
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



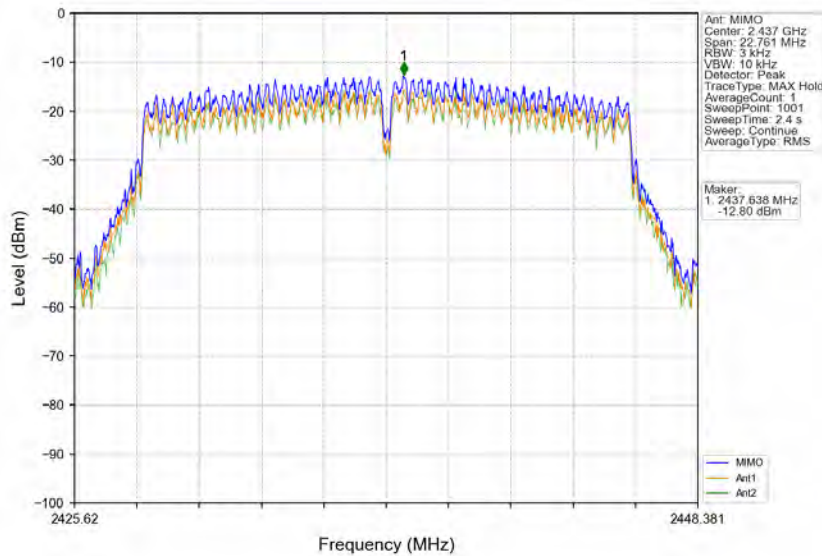
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802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



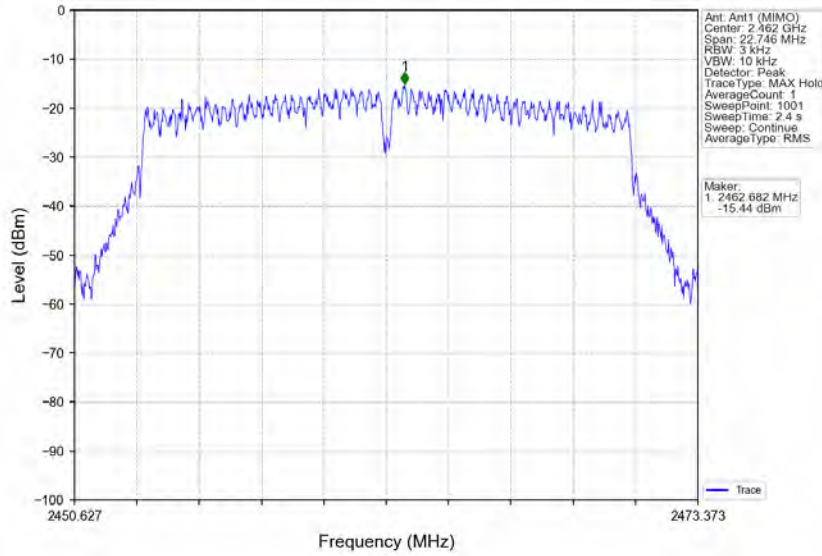
802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



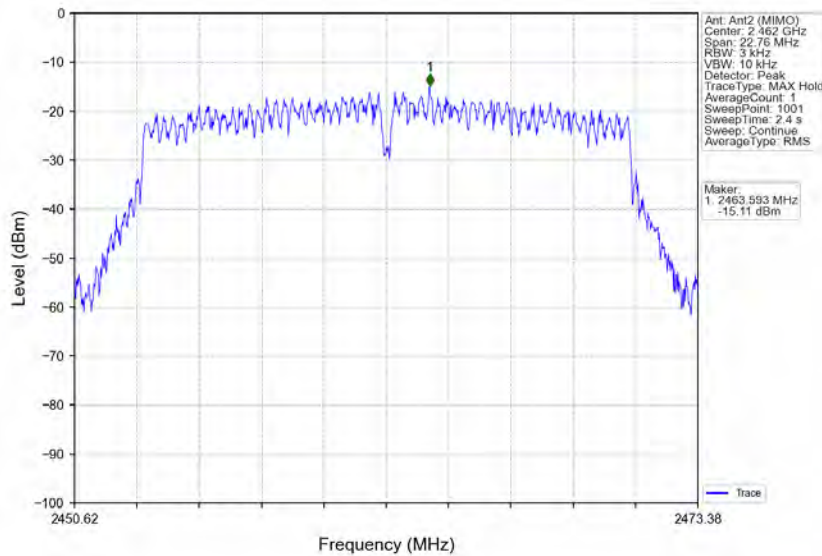
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



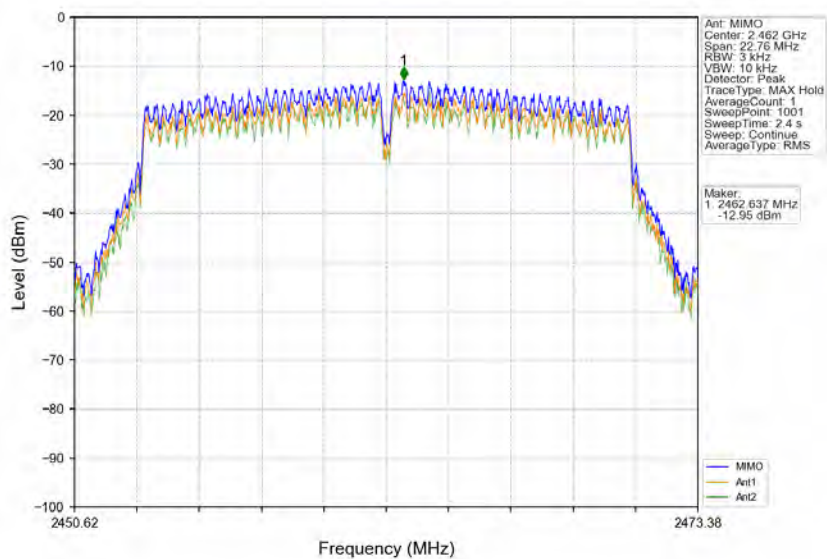
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802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



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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	6.70
			2	6.25
		2437	1	6.87
			2	6.15
		2462	1	6.84
			2	5.99
802.11g	SISO	2412	1	4.43
			2	4.38
		2437	1	4.23
			2	4.18
		2462	1	4.69
			2	3.96
802.11n (HT20)	MIMO	2412	1	1.70
			2	0.64
		2437	1	1.67
			2	0.24
		2462	1	0.61
			2	0.43

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.

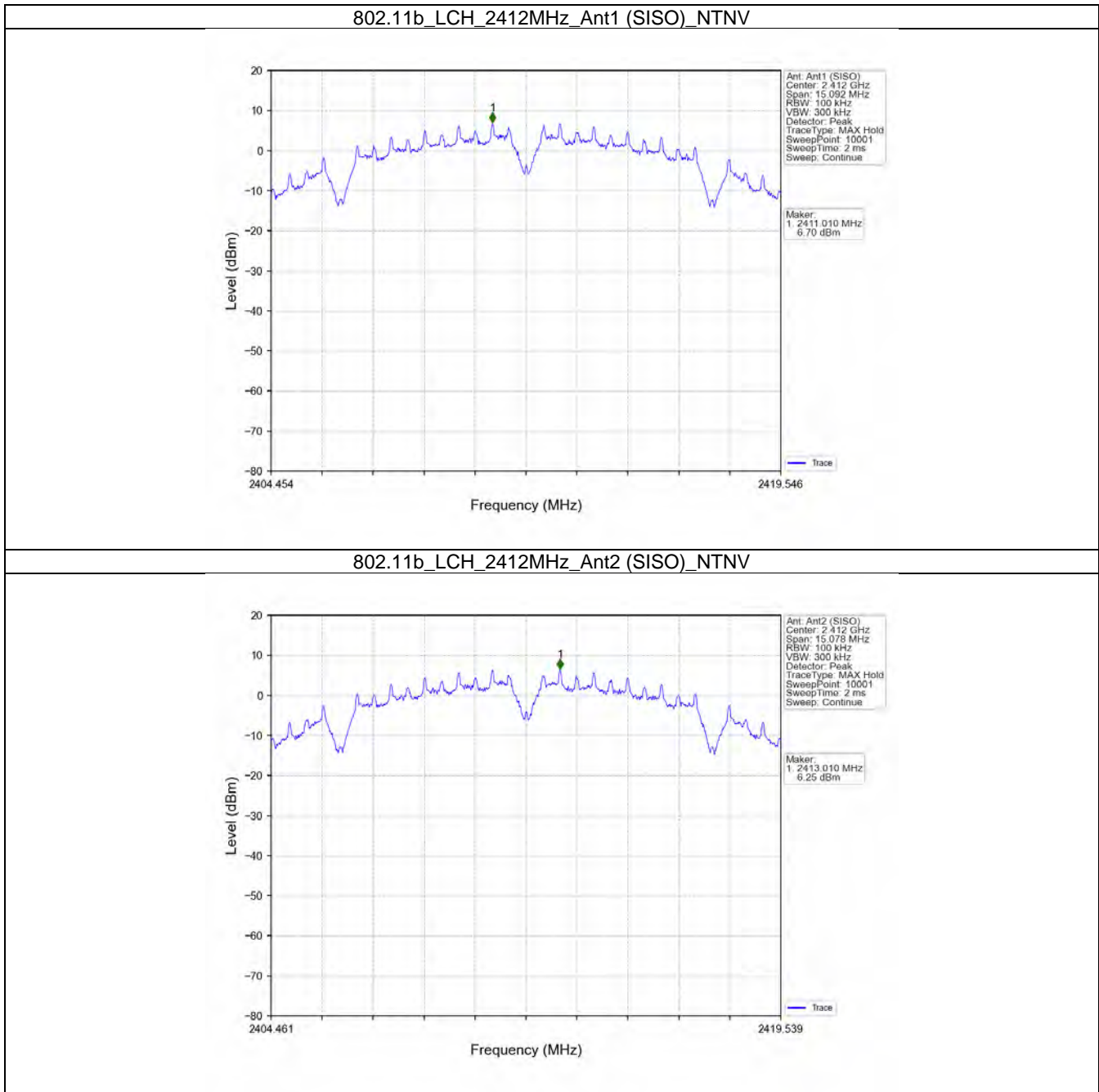
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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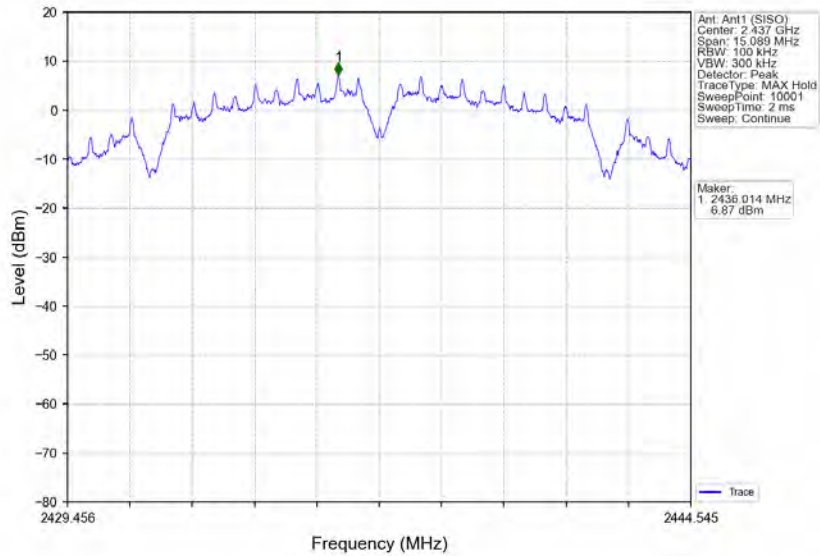
5.1.2 Test Graph



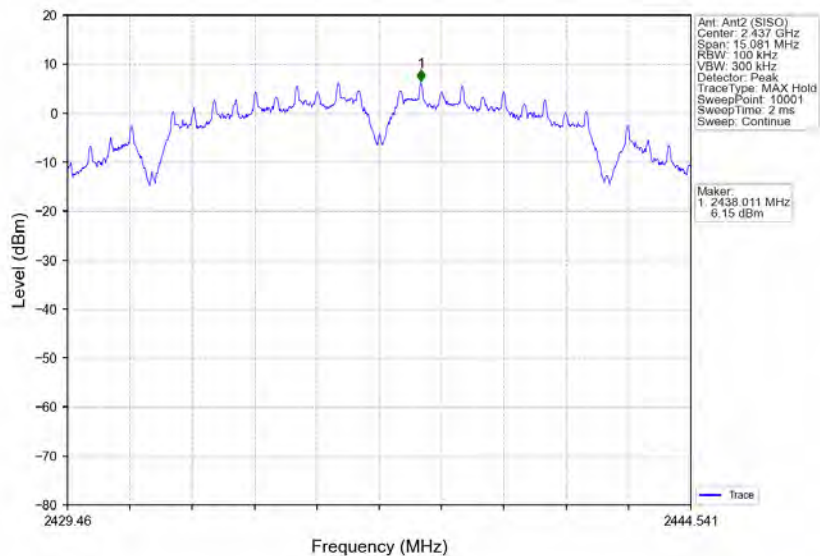
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



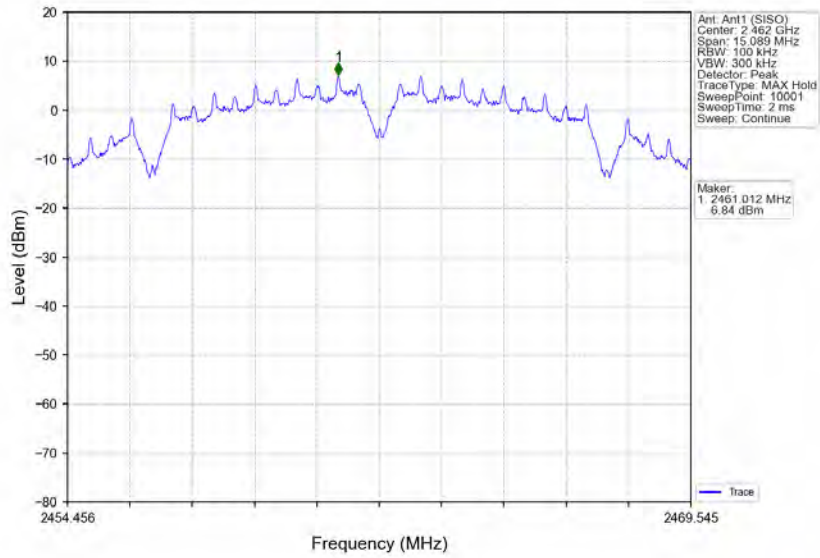
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



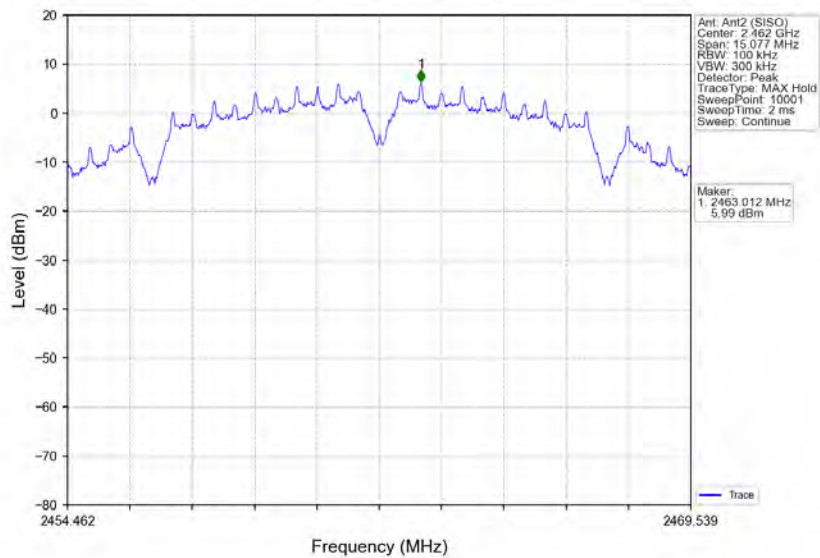
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



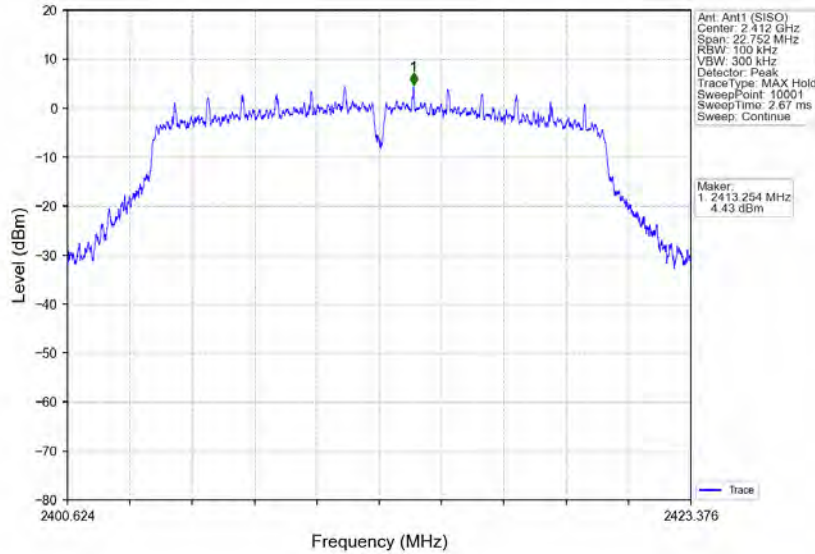
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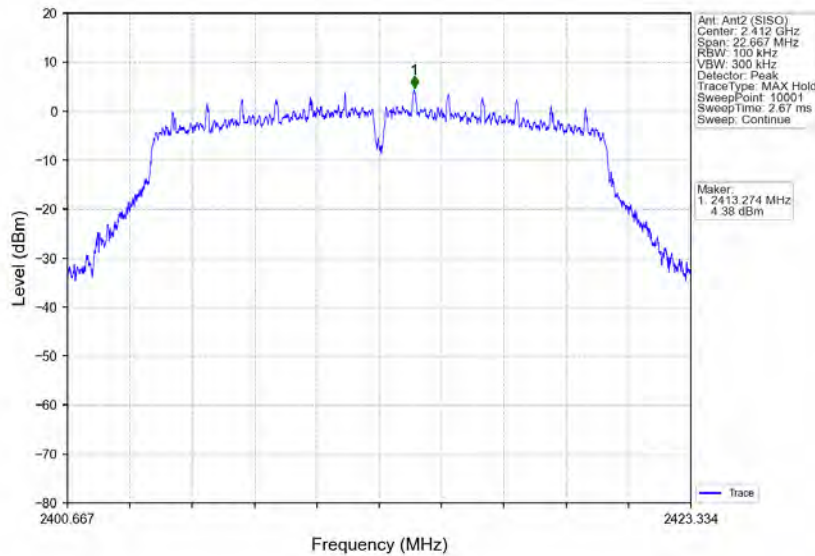
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



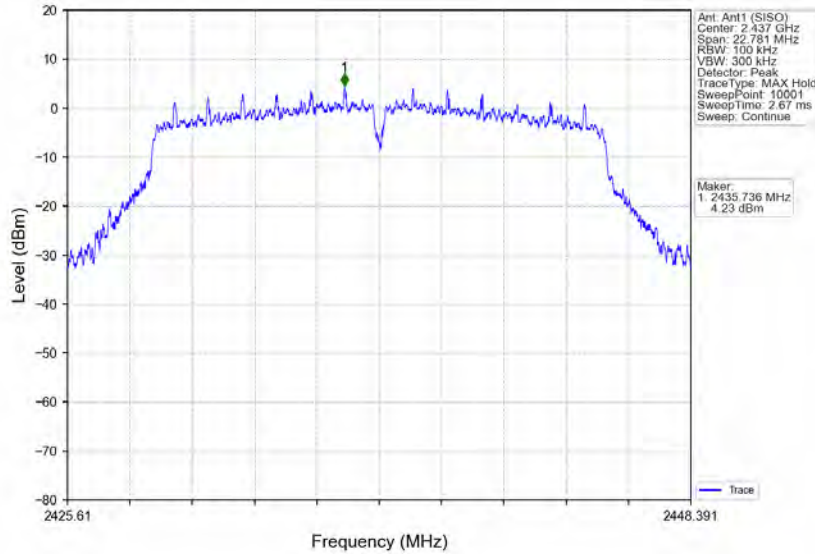
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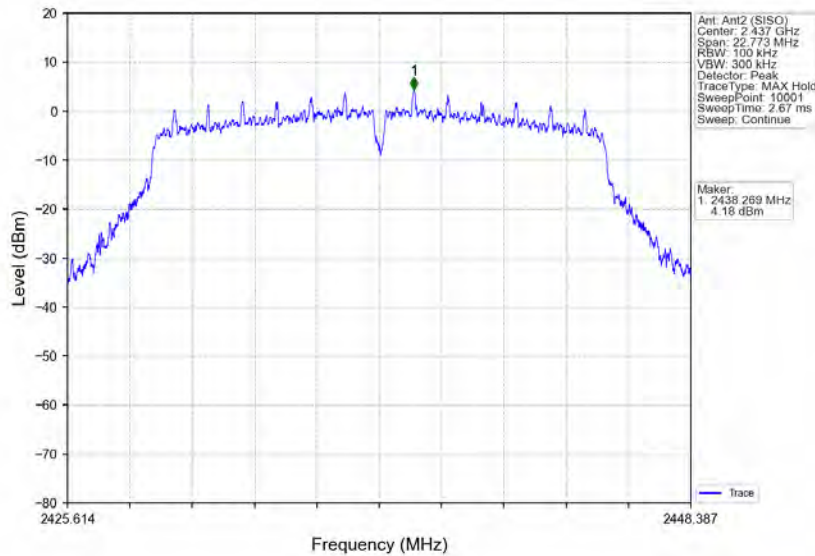
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



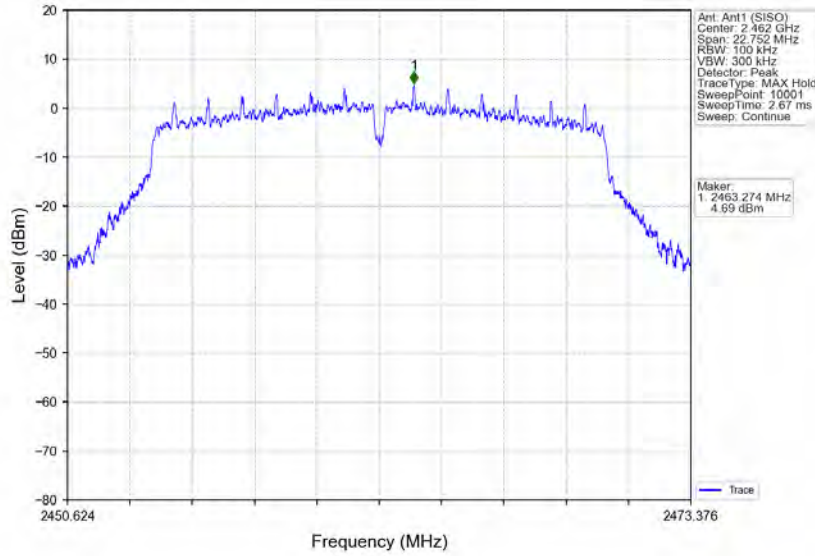
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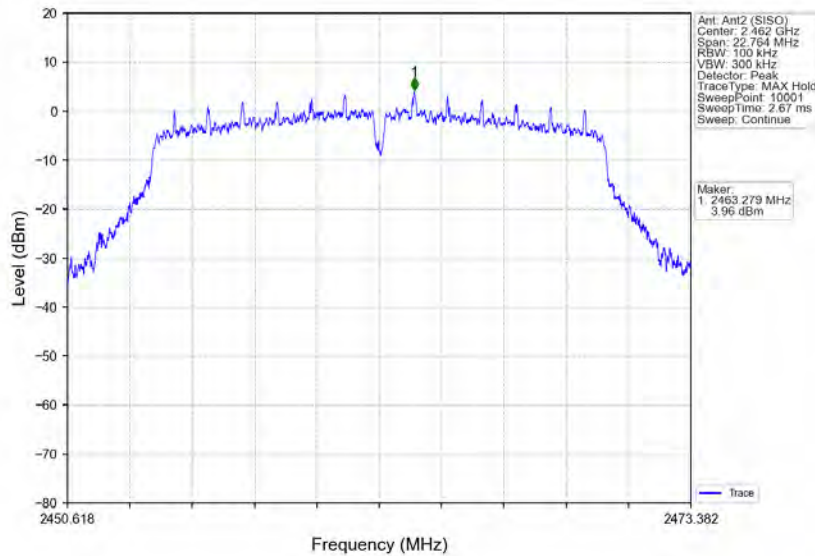
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



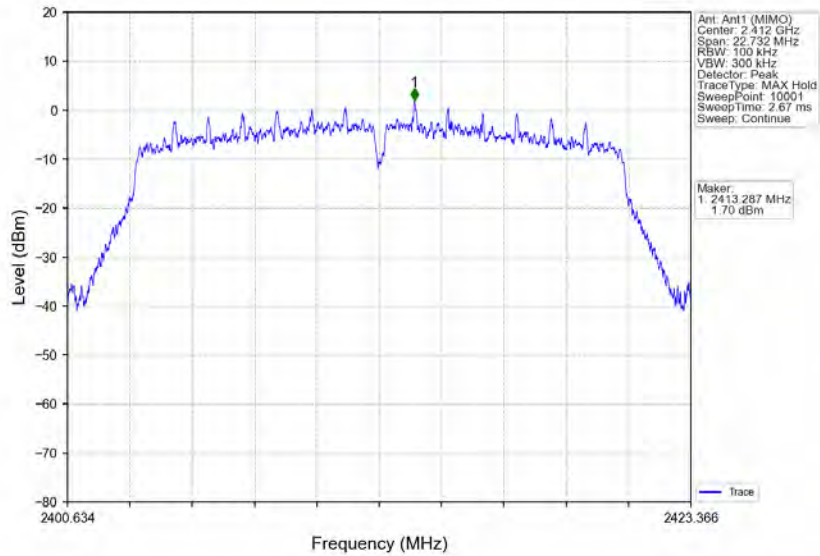
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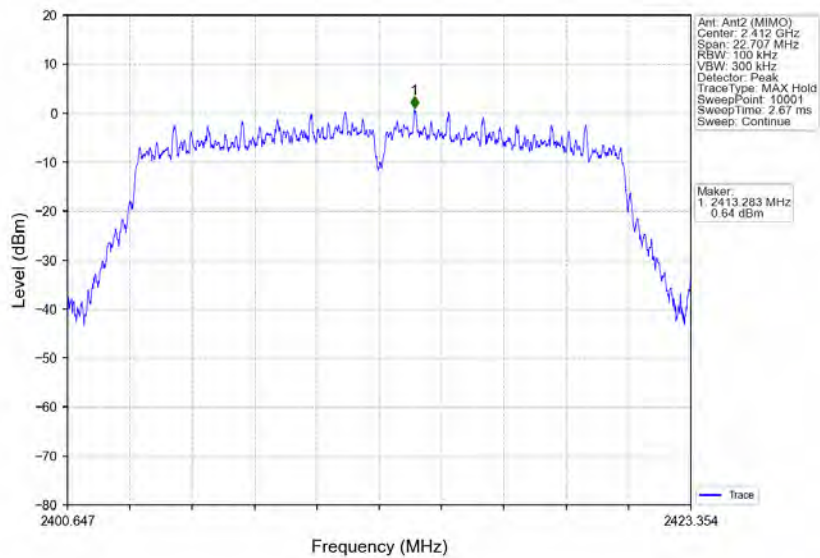
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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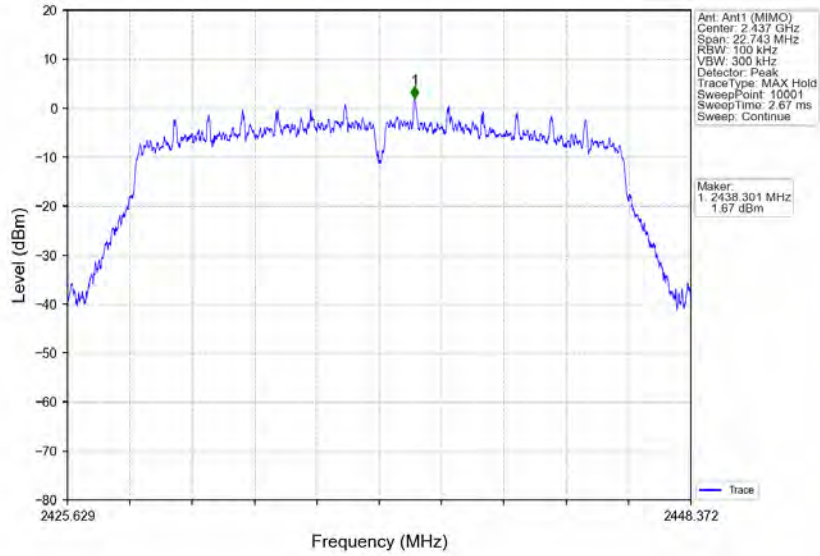
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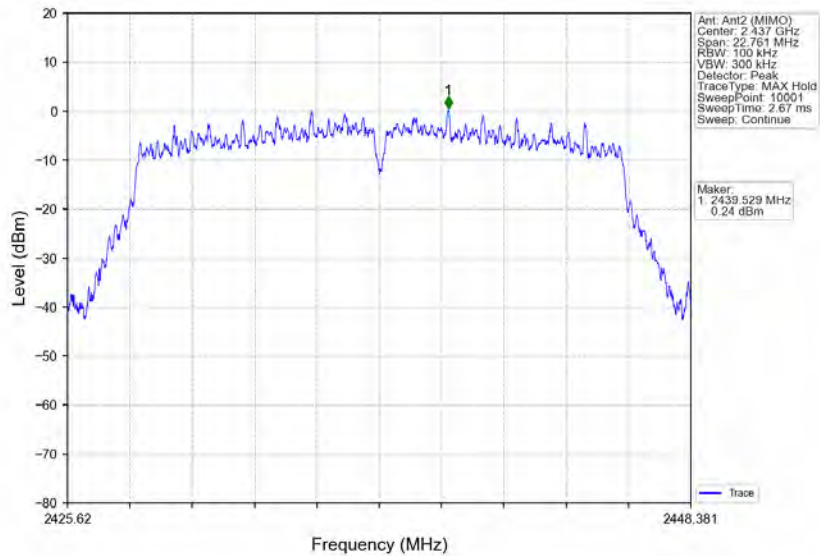
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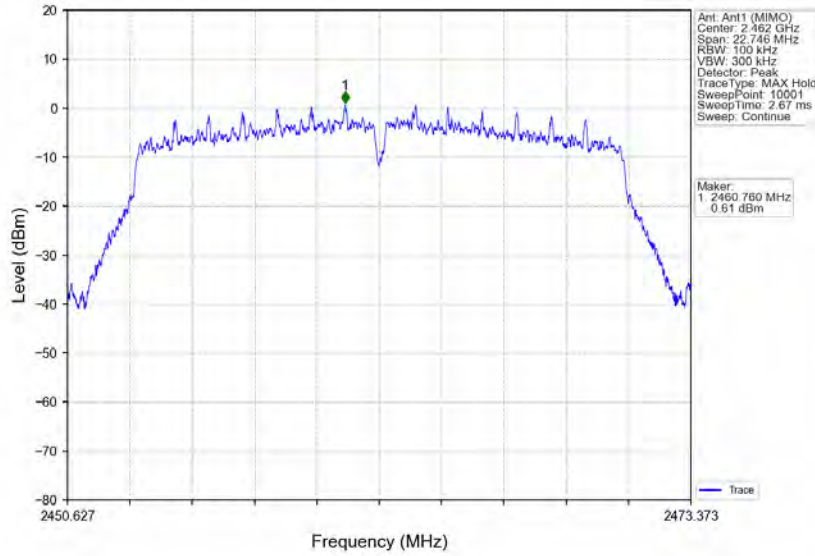
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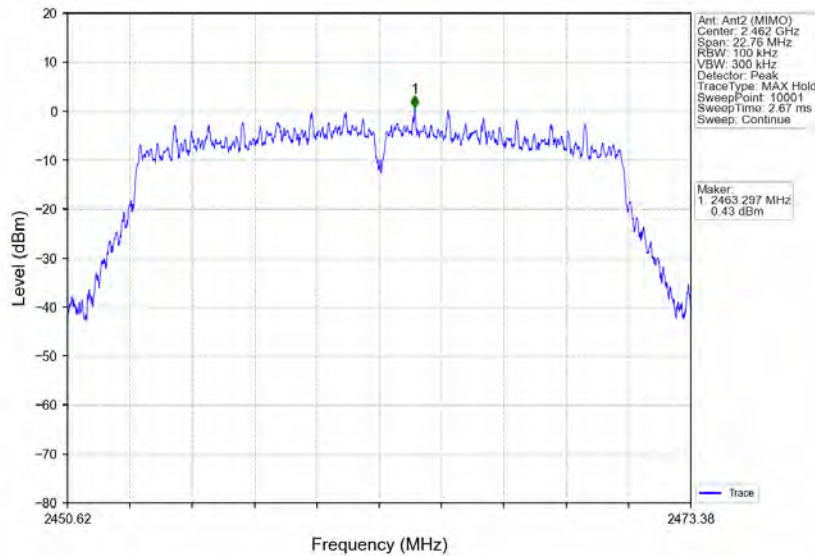
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802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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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	6.87	-23.13	Pass
			2	6.25	-23.75	Pass
		2437	1	6.87	-23.13	Pass
			2	6.25	-23.75	Pass
		2462	1	6.87	-23.13	Pass
			2	6.25	-23.75	Pass
802.11g	SISO	2412	1	4.69	-25.31	Pass
			2	4.38	-25.62	Pass
		2437	1	4.69	-25.31	Pass
			2	4.38	-25.62	Pass
		2462	1	4.69	-25.31	Pass
			2	4.38	-25.62	Pass
802.11n (HT20)	MIMO	2412	1	1.70	-28.30	Pass
			2	0.64	-29.36	Pass
		2437	1	1.70	-28.30	Pass
			2	0.64	-29.36	Pass
		2462	1	1.70	-28.30	Pass
			2	0.64	-29.36	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.

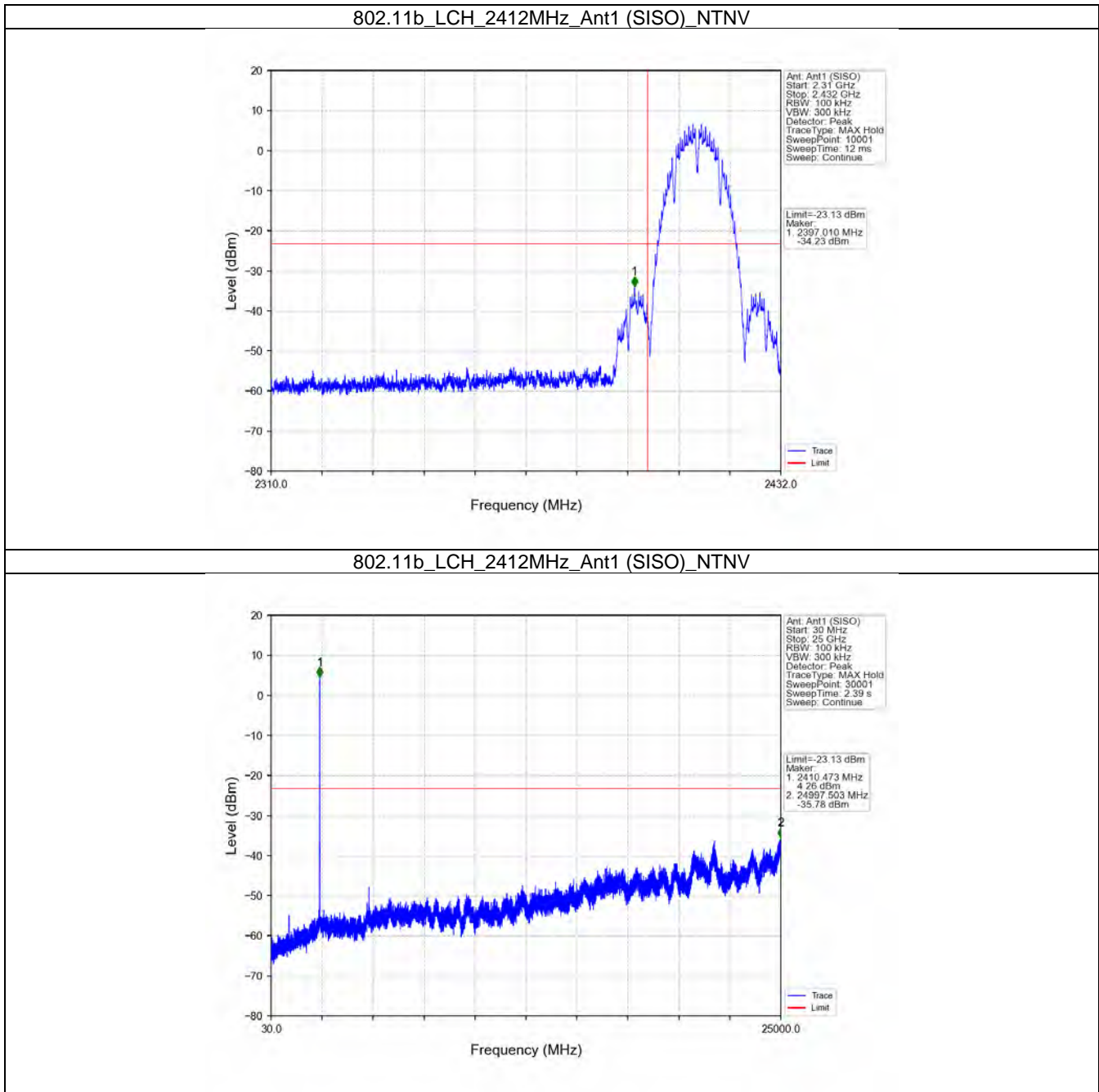
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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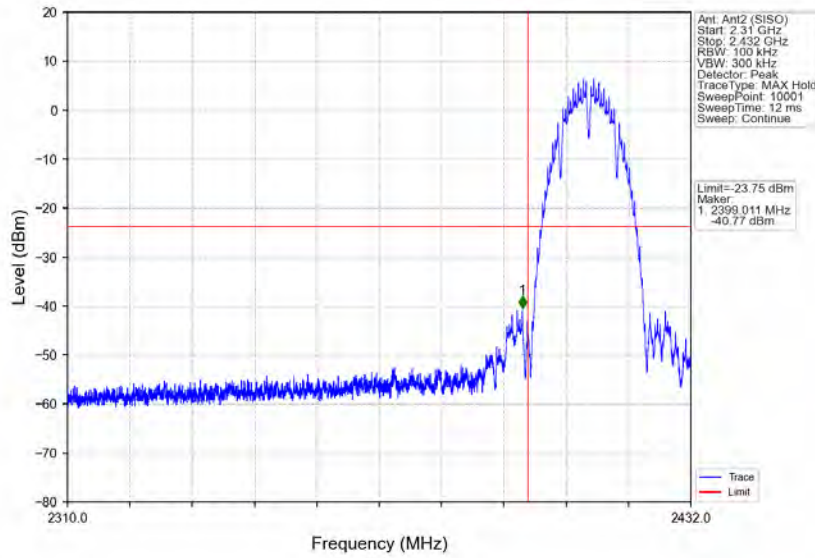
5.2.2 Test Graph



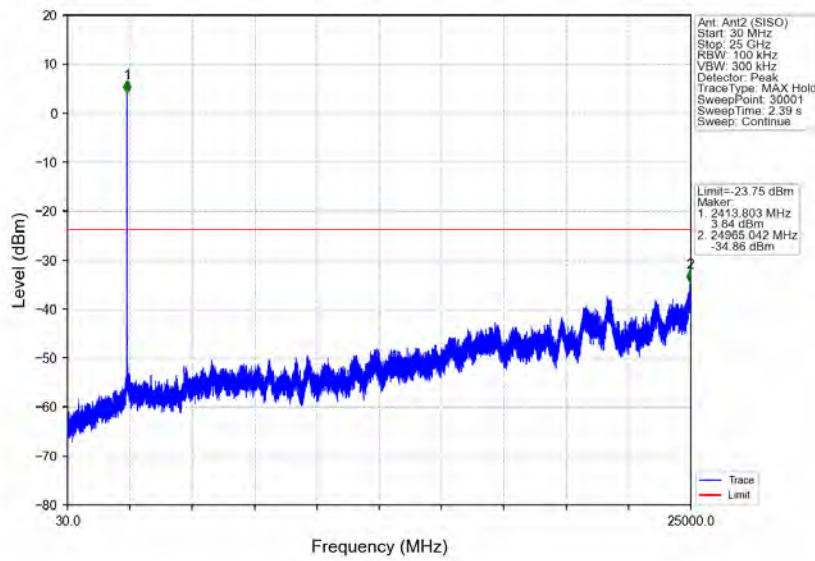
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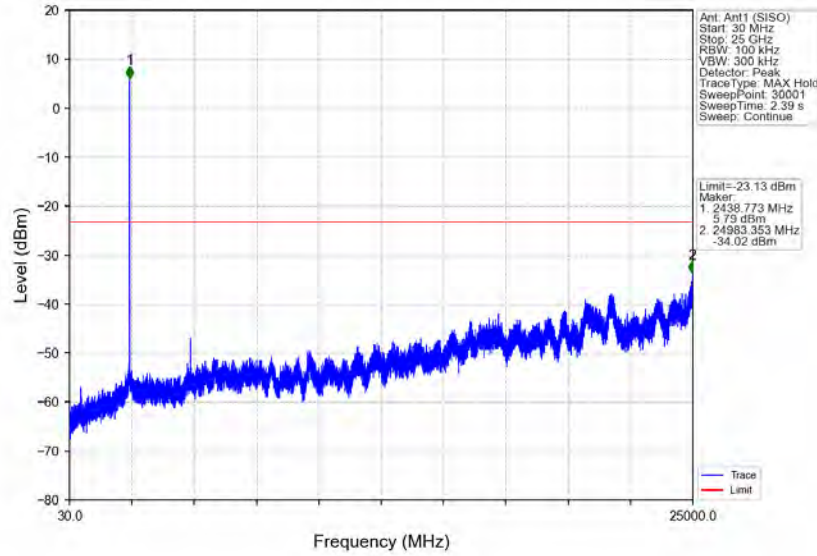
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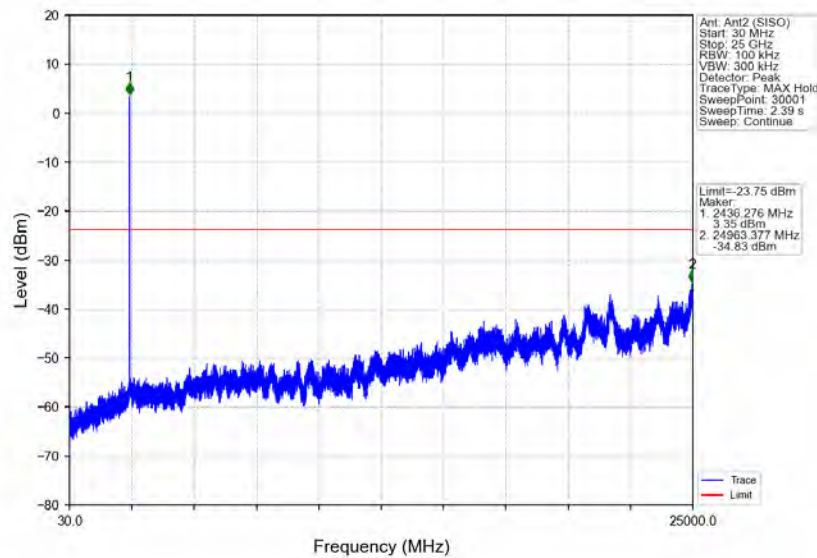
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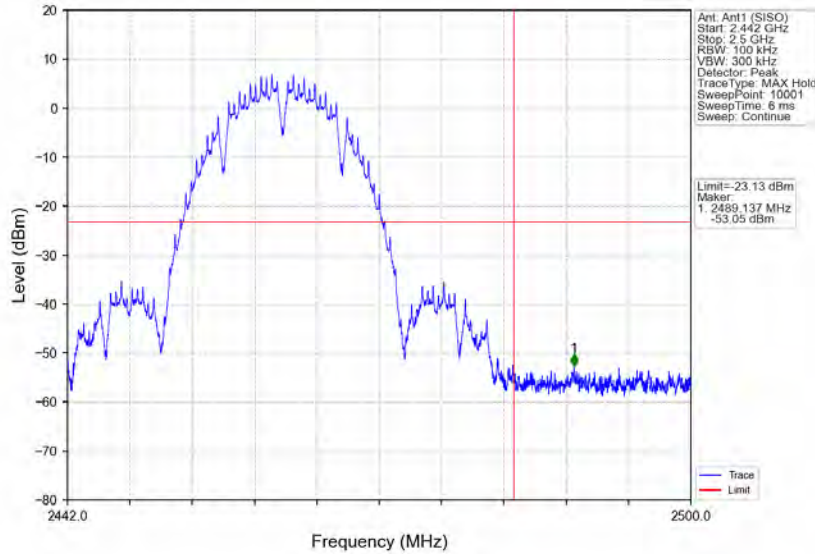
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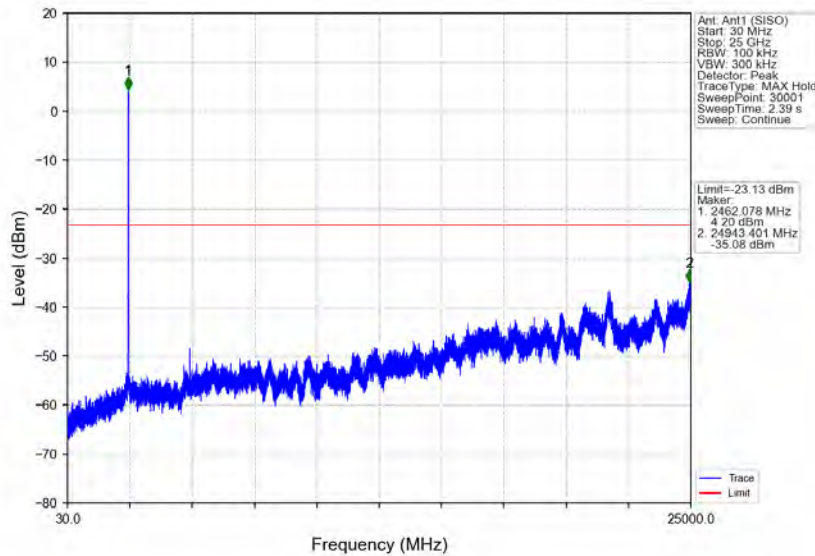
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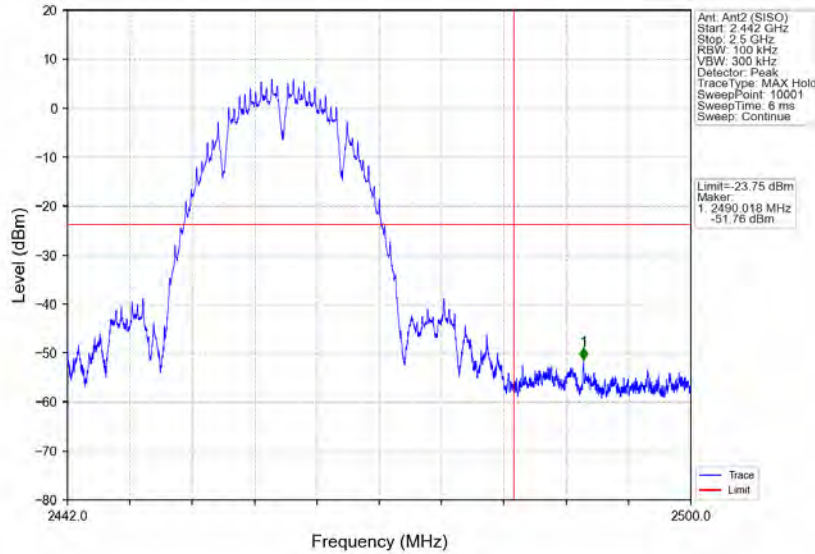
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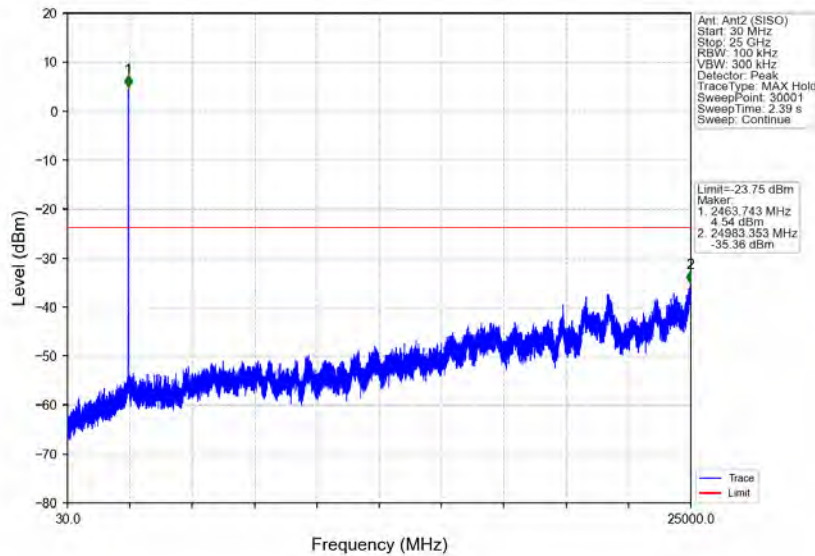
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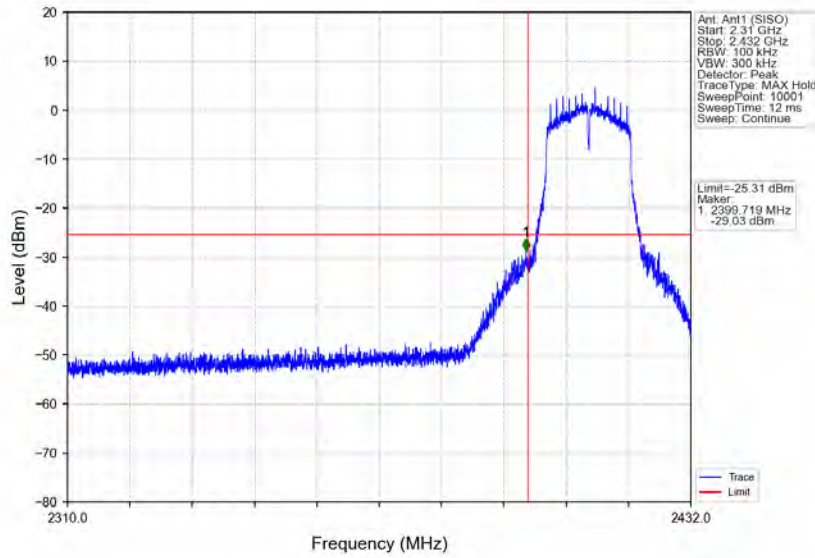
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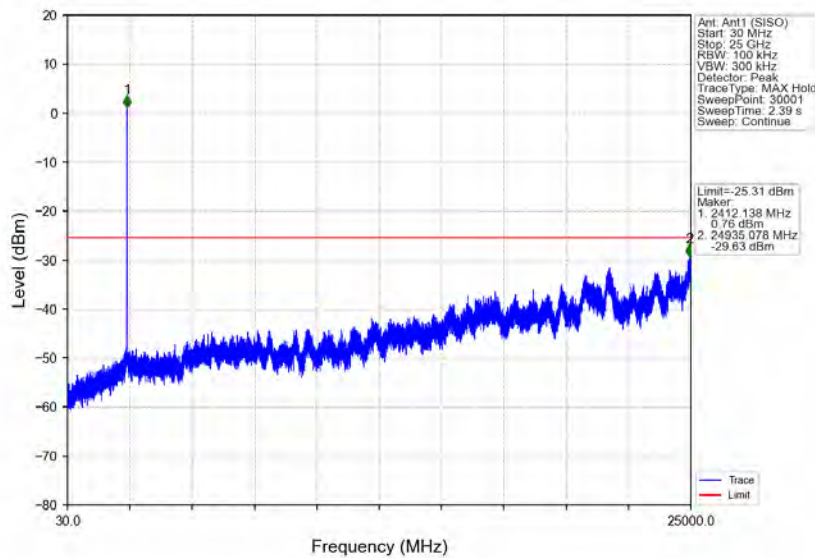
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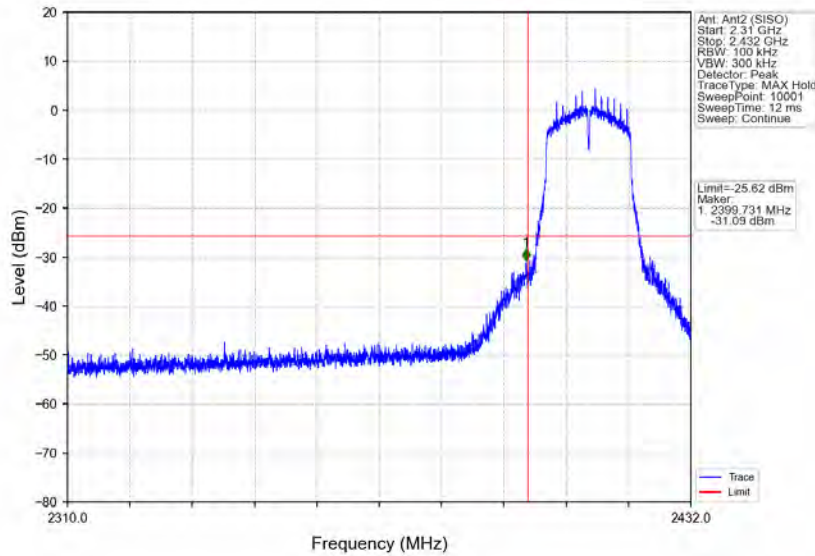
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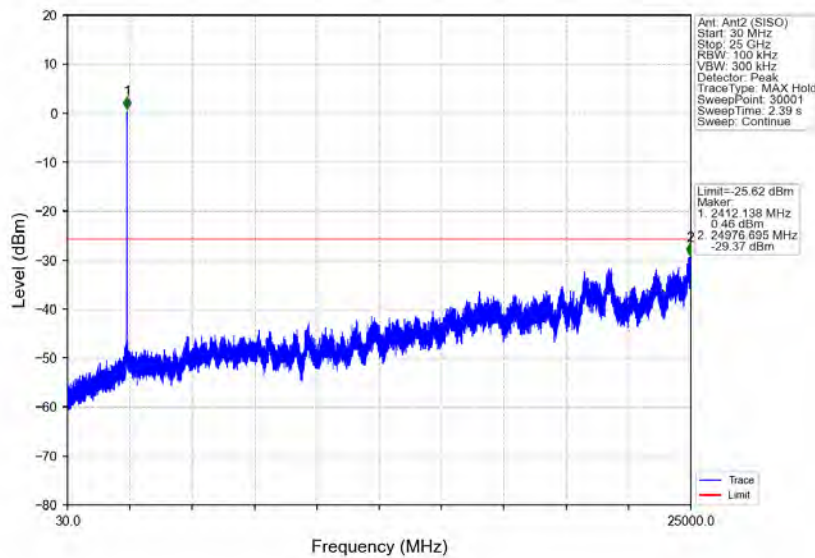
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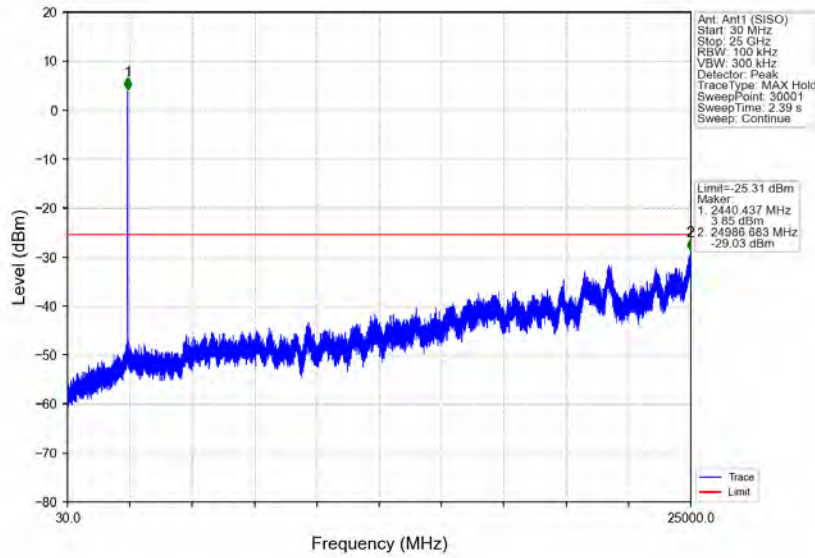
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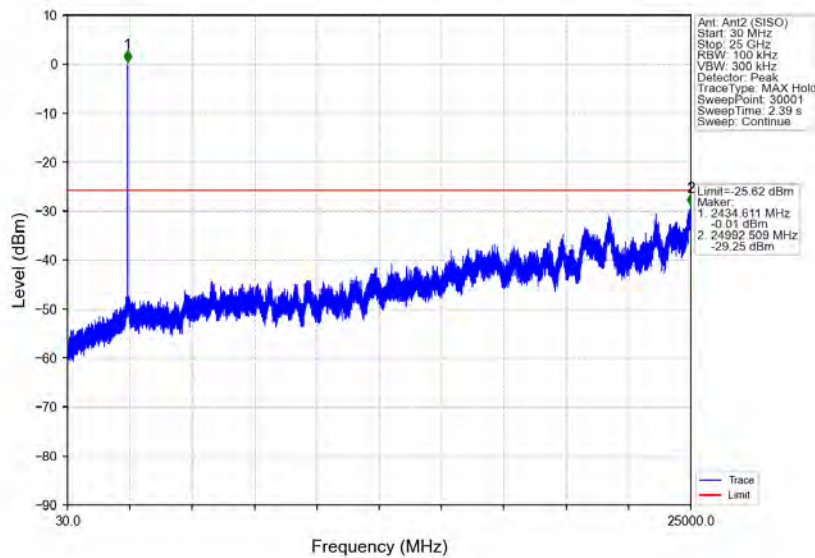
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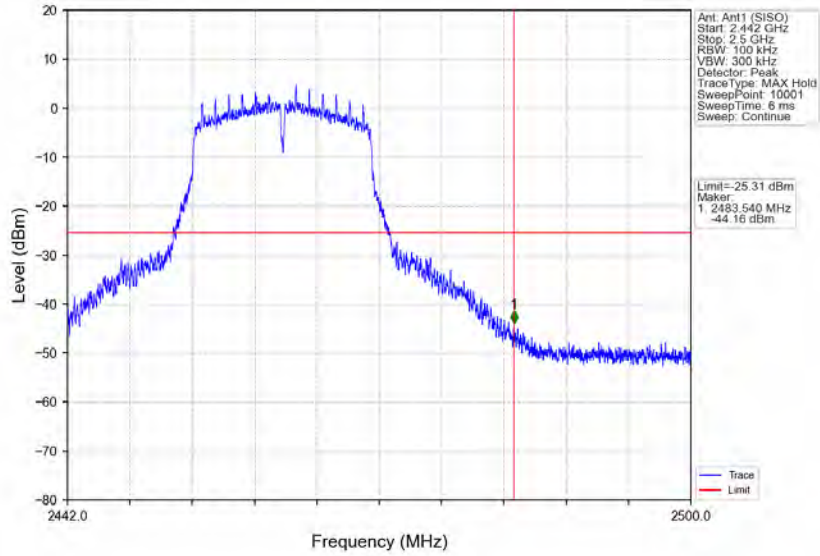
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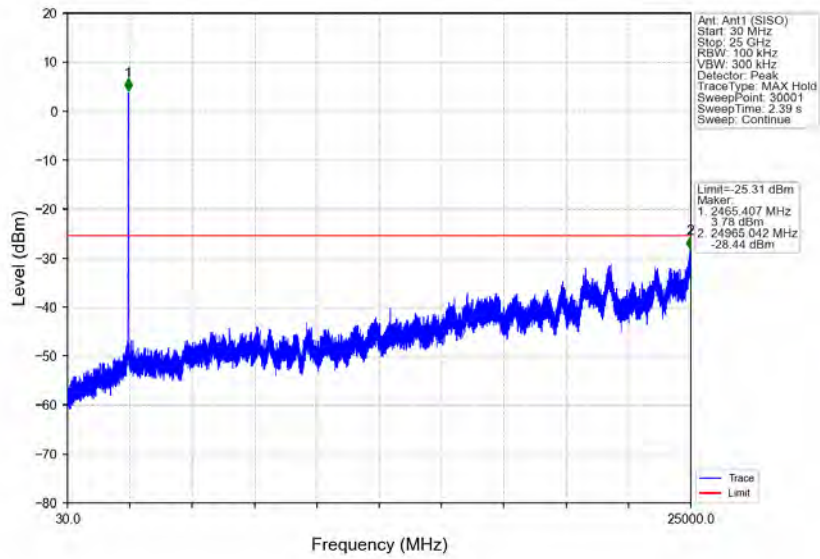
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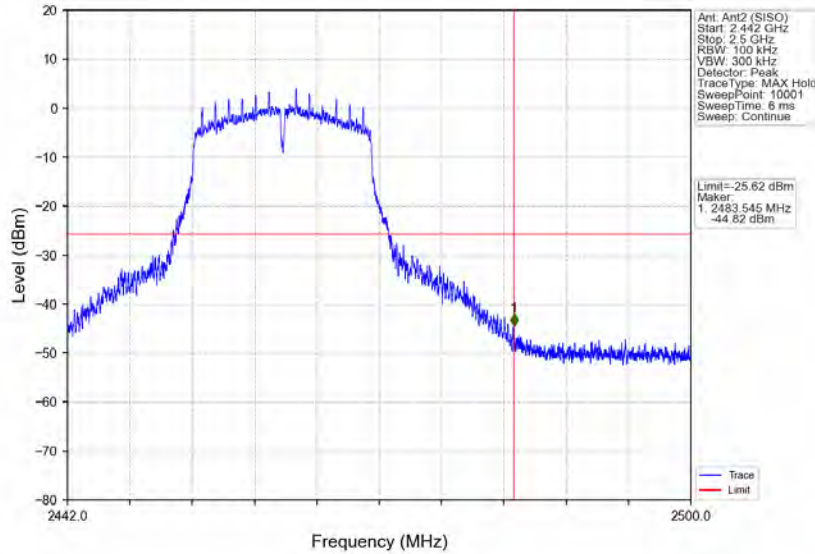
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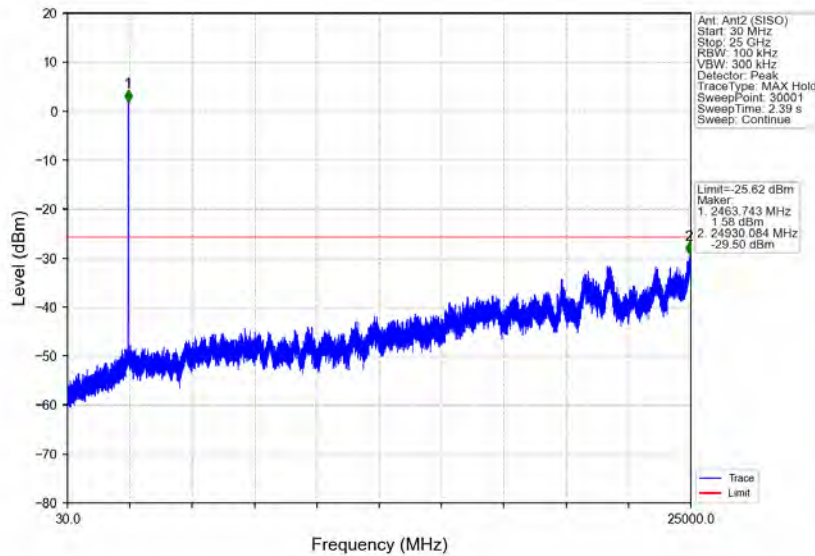
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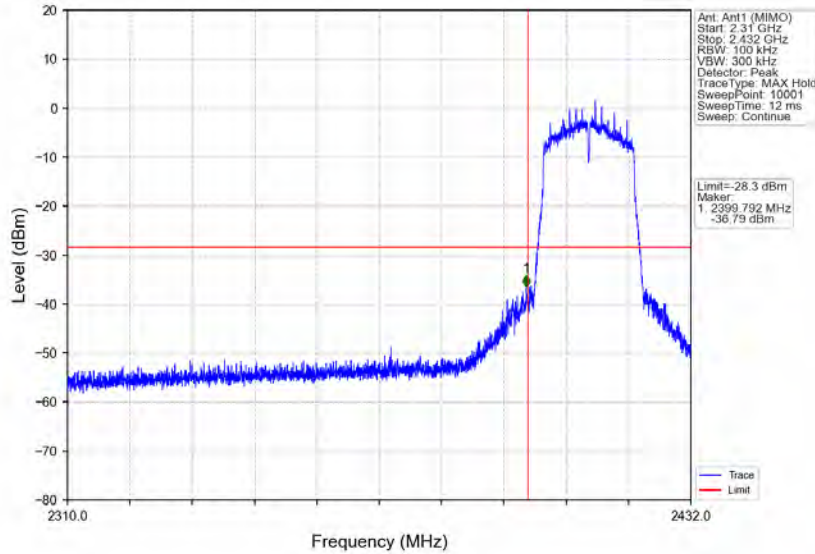
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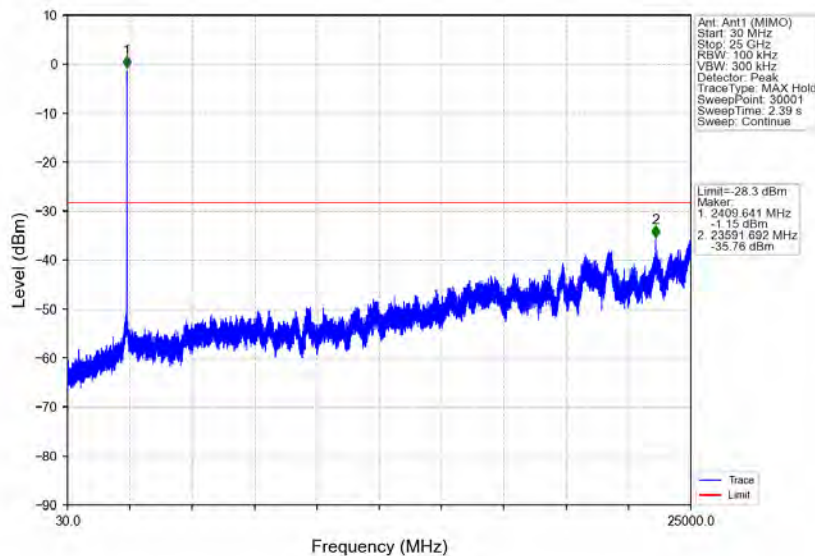
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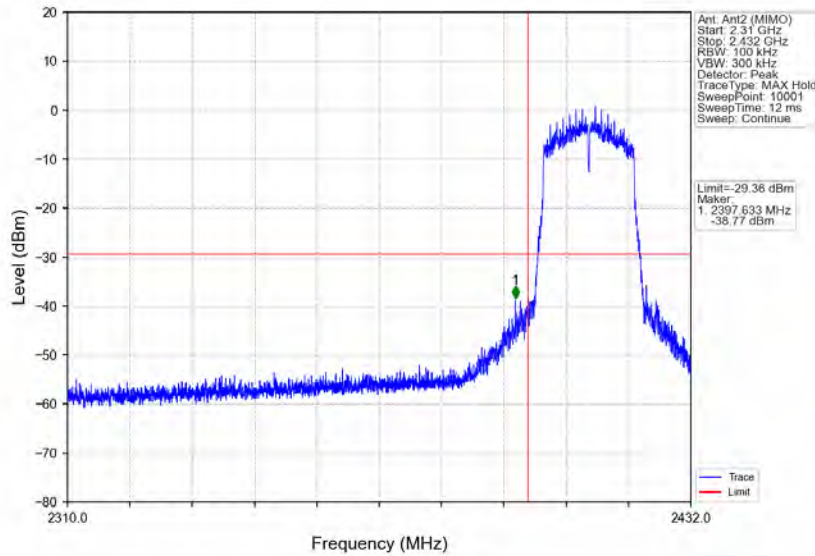
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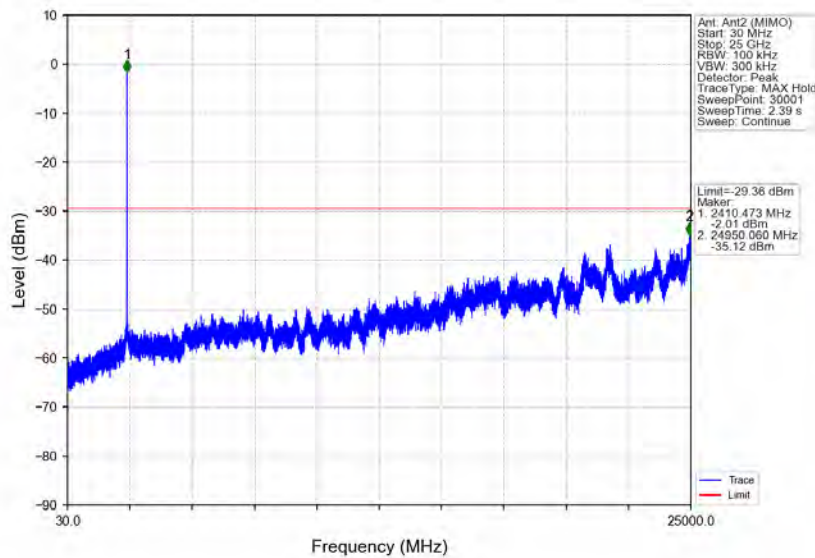
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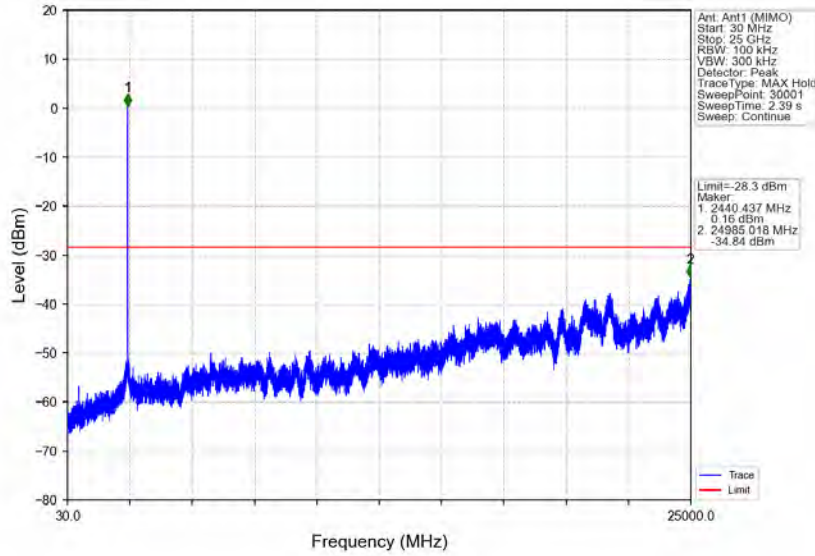
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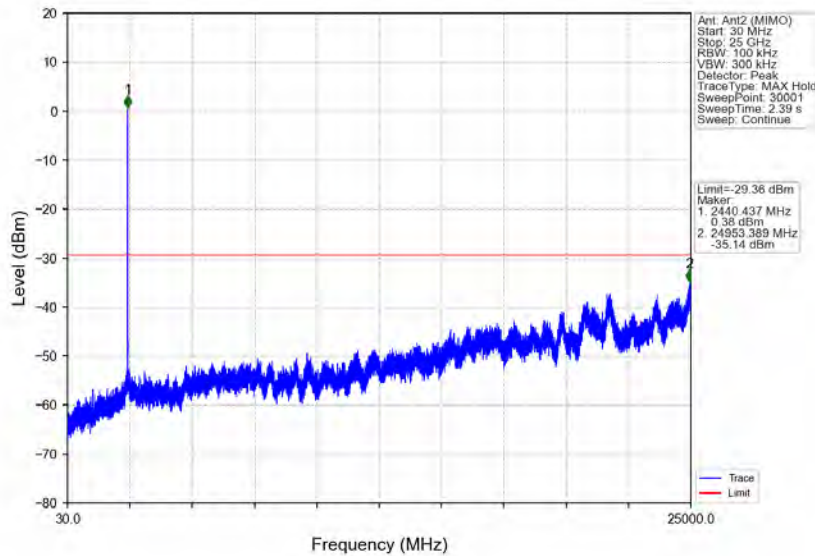
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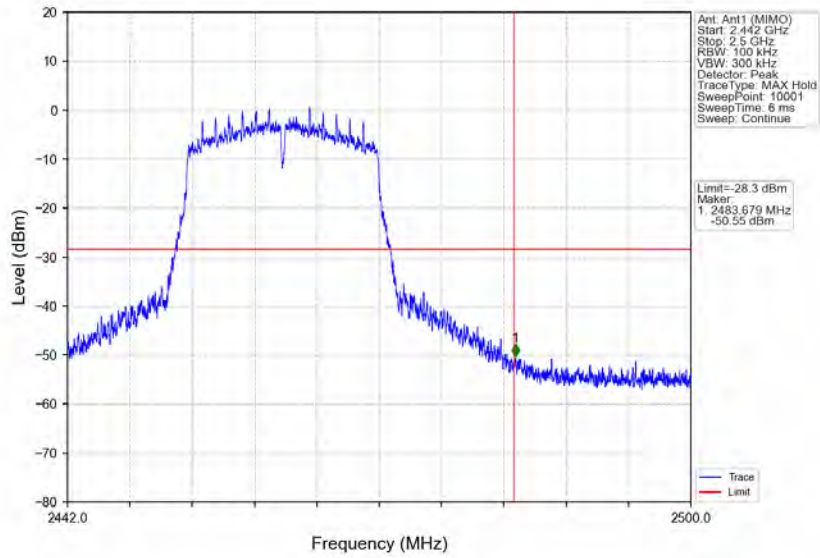
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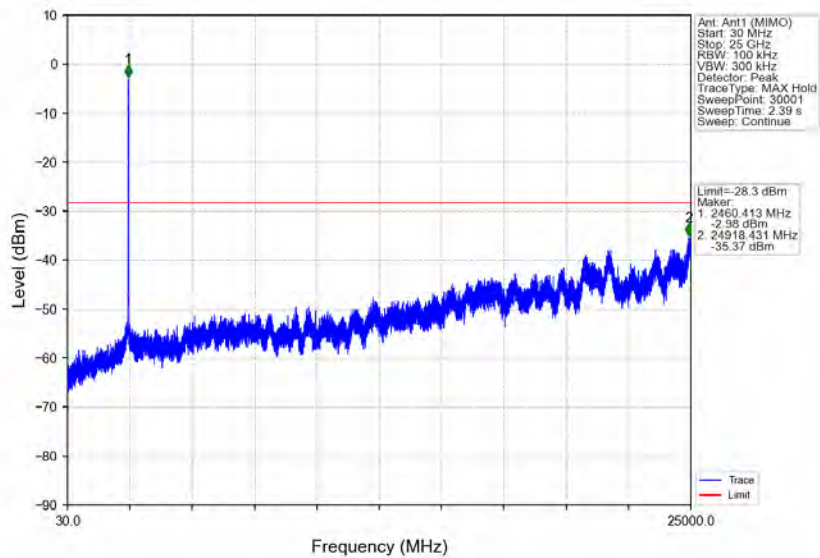
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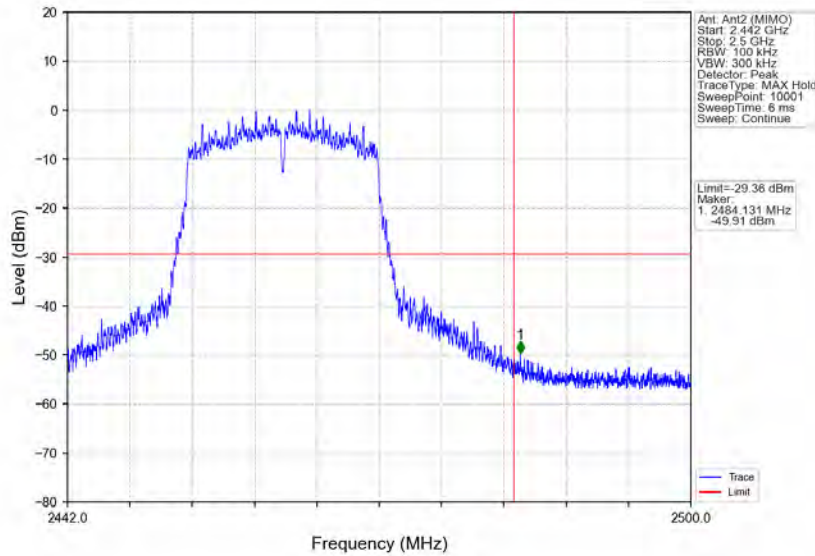
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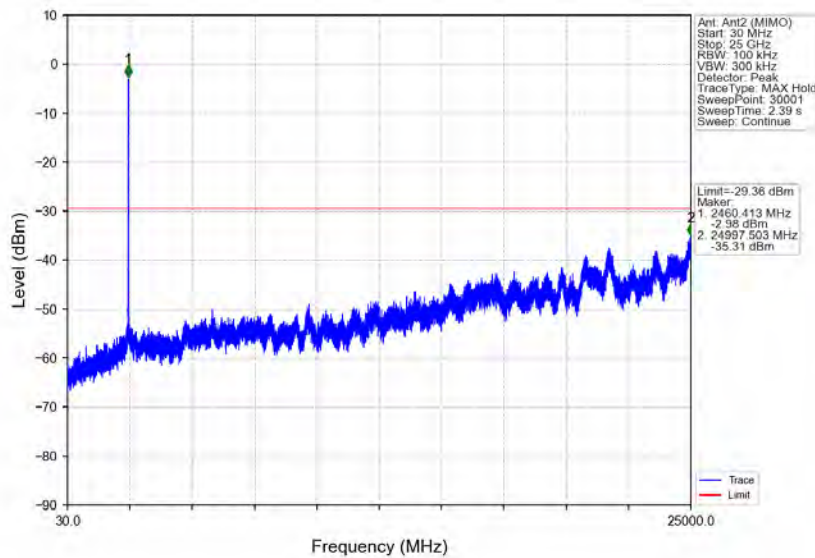
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802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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