

Appendix A for-KSCR220100003001AT-FCC-2.4G

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	12.416	12.903	96.23	0.17	0.68
		2437	12.417	12.860	96.56	0.15	0.50
		2462	12.416	12.893	96.30	0.16	0.96
802.11g	SISO	2412	2.064	2.578	80.06	0.97	15.06
		2437	2.064	2.295	89.93	0.46	5.24
		2462	2.063	2.276	90.64	0.43	4.17
802.11n (HT20)	MIMO	2412	1.920	2.151	89.26	0.49	5.59
		2437	1.920	2.142	89.64	0.48	5.61
		2462	1.921	4.184	45.91	3.38	49.35
802.11n (HT40)	MIMO	2422	0.945	1.175	80.43	0.95	9.64
		2437	0.944	1.175	80.34	0.95	9.64
		2452	0.944	1.166	80.96	0.92	9.80



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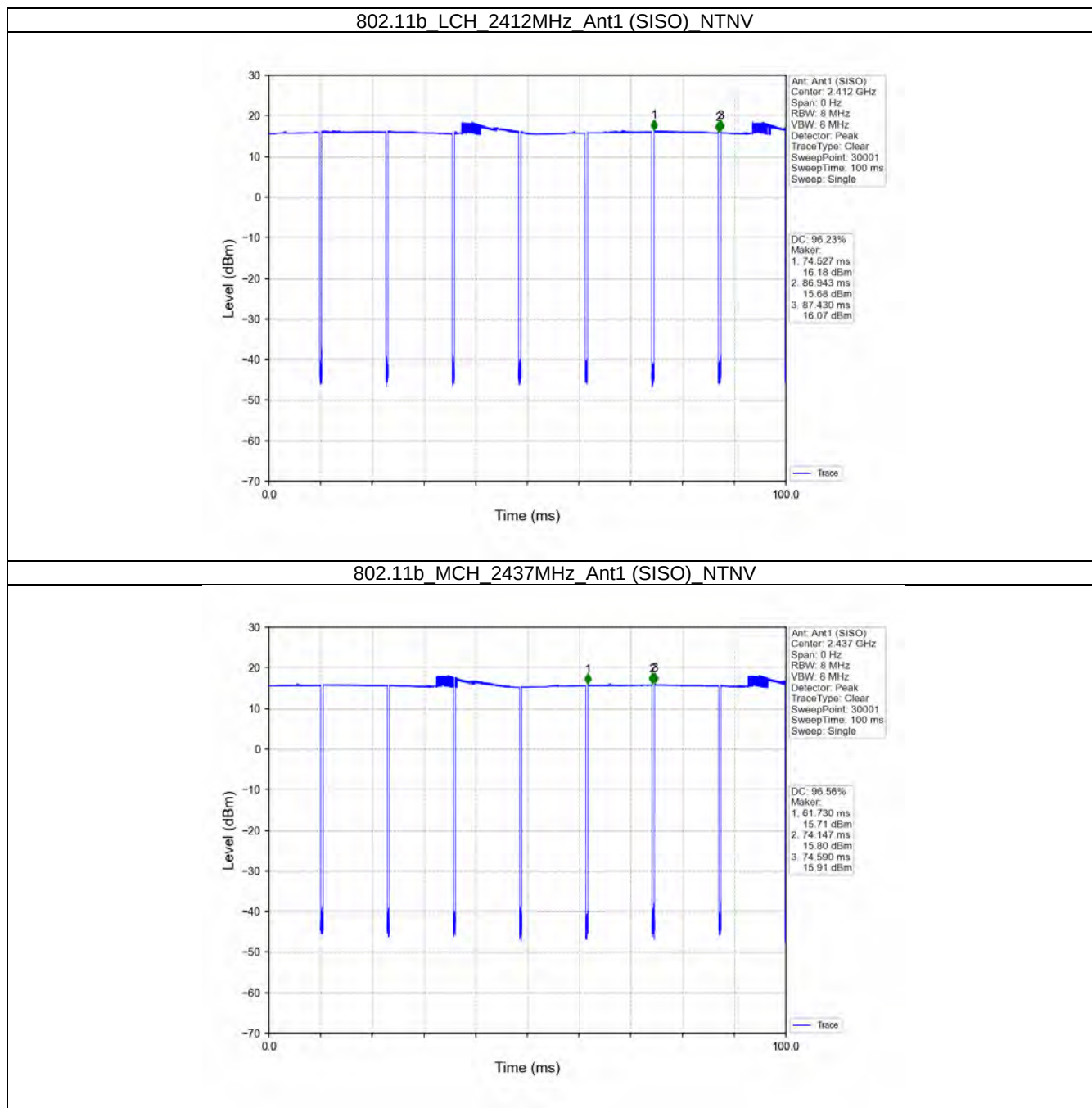
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1.1.2 Test Graph



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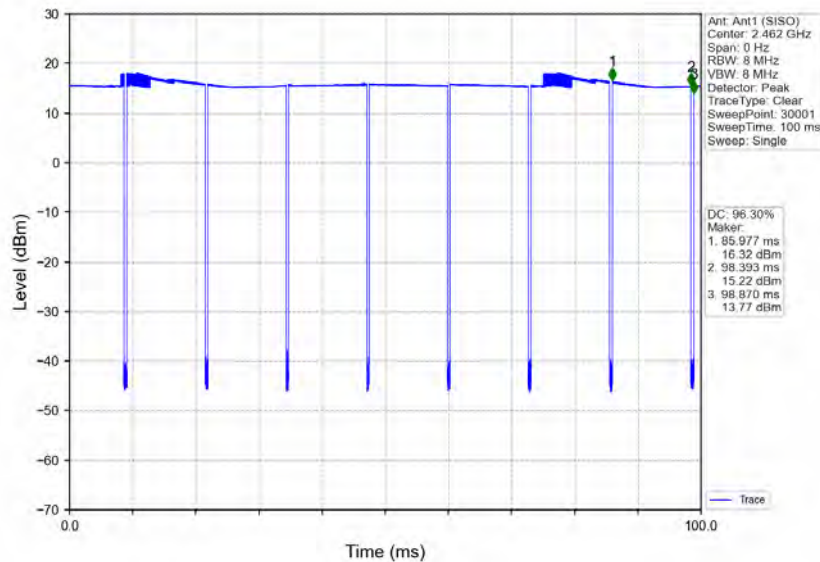
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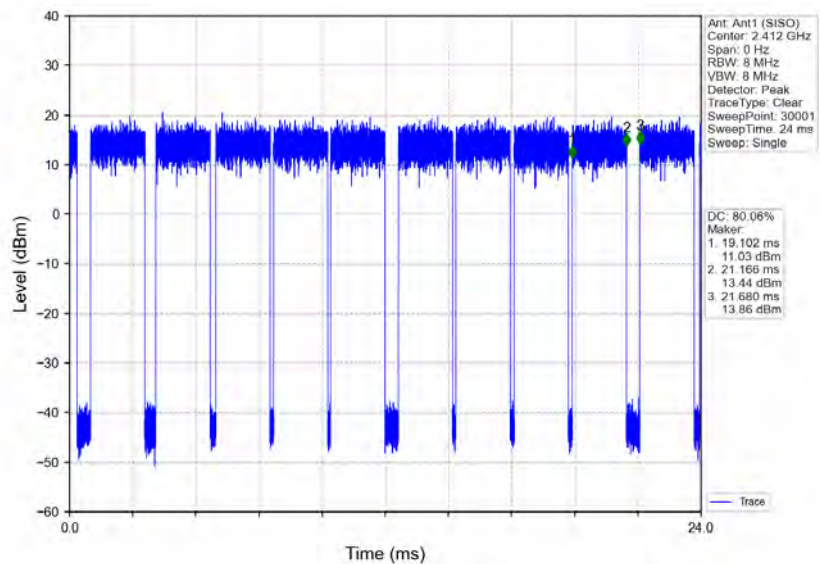
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN



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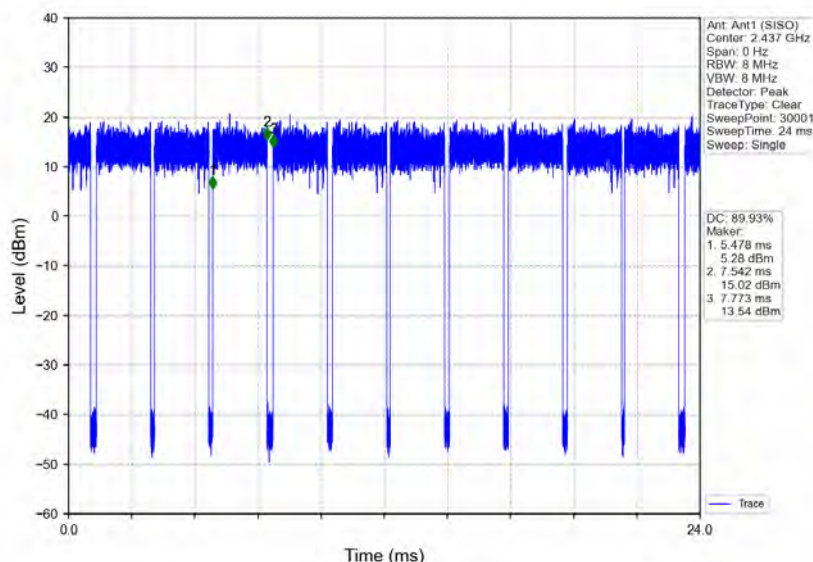
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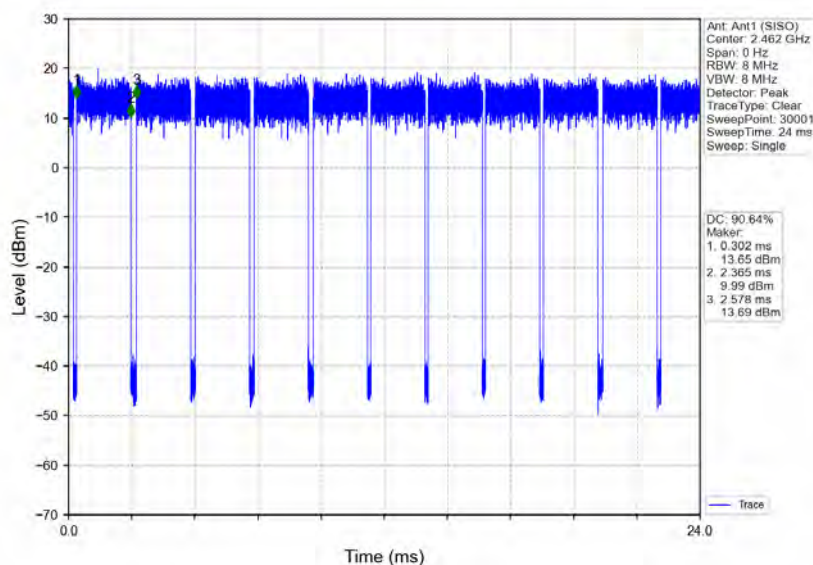
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802.11g MCH 2437MHz Ant1 (SISO) NTNV



802.11g HCH 2462MHz Ant1 (SISO) NTNV



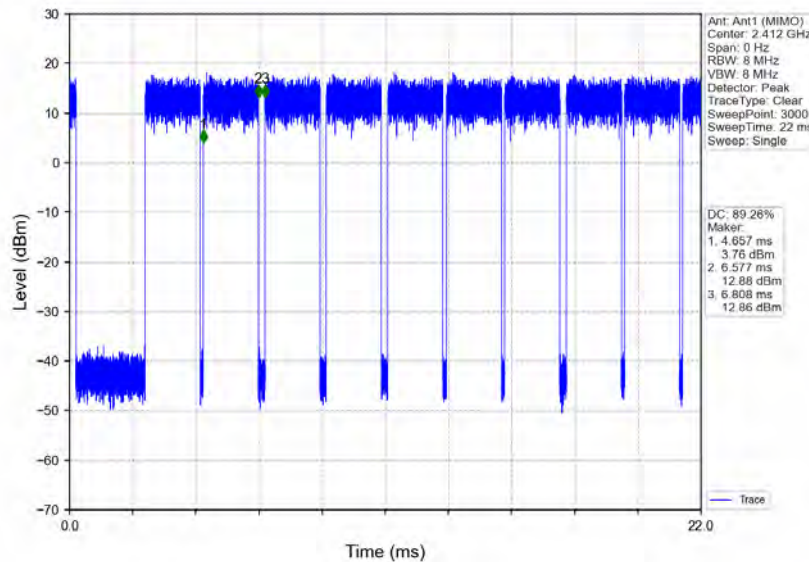
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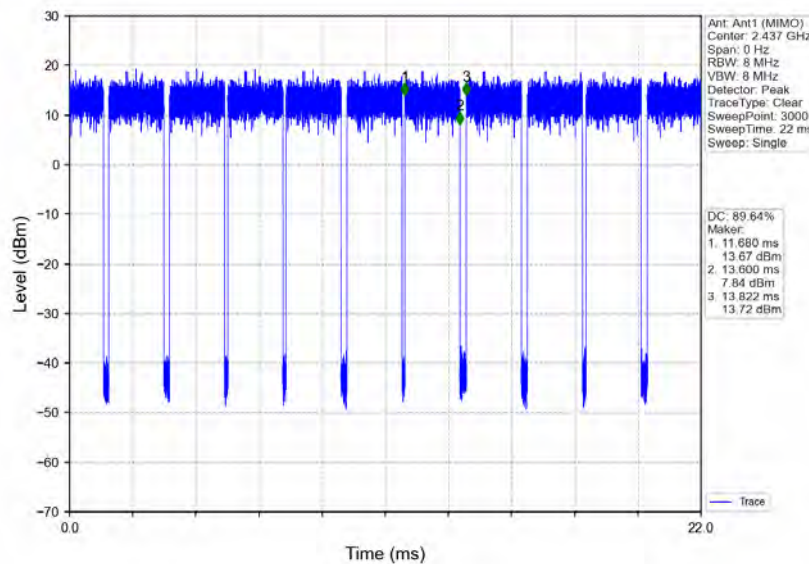
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTNV



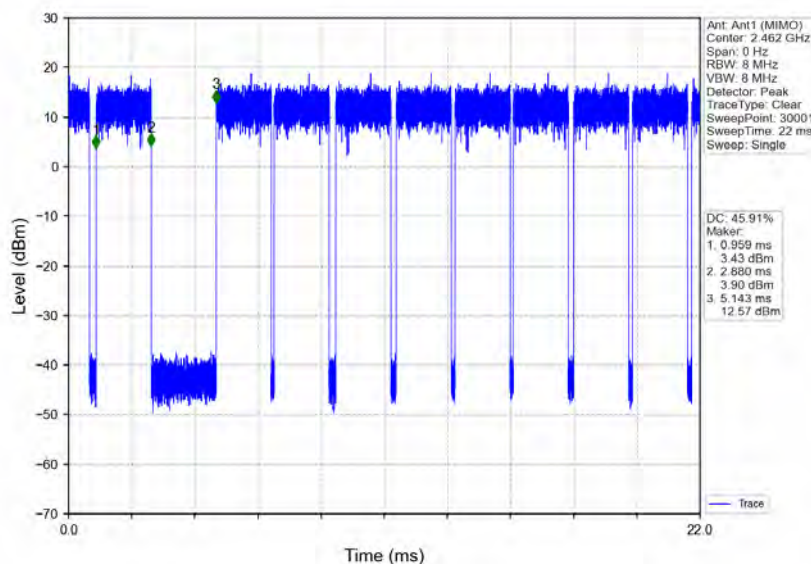
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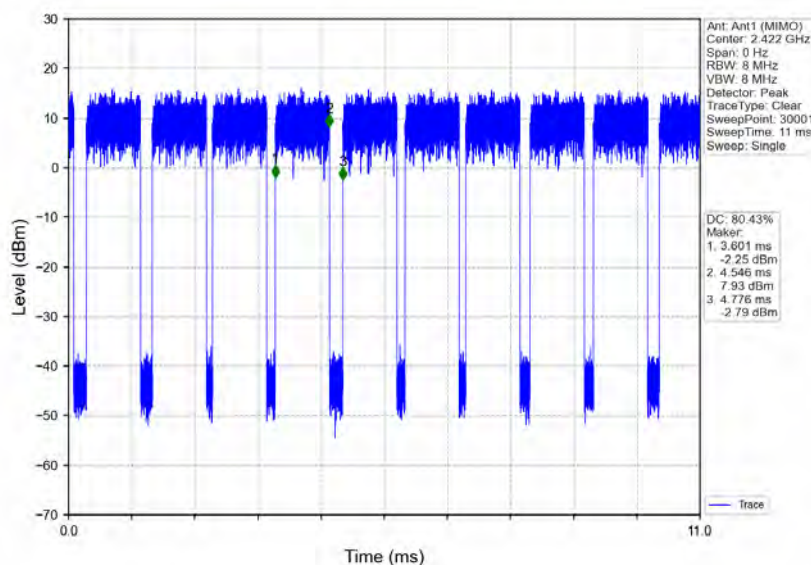
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802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTNV



802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTNV



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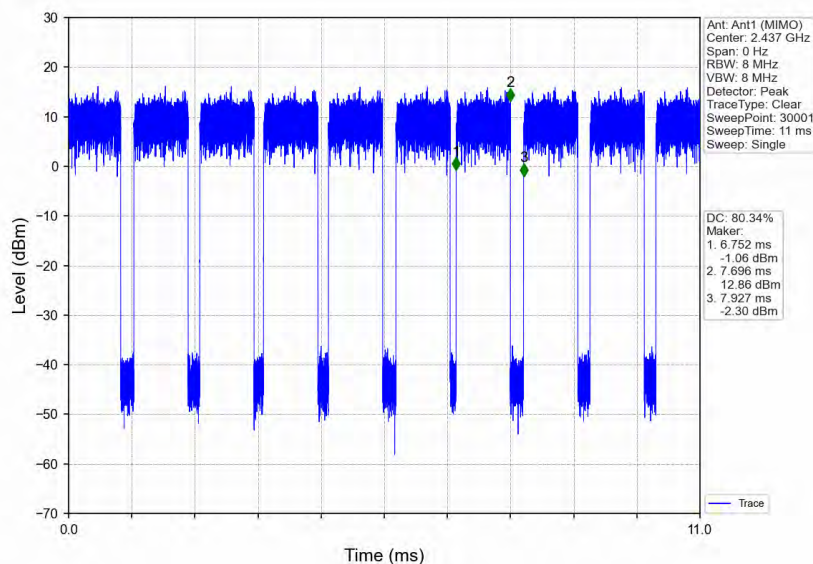
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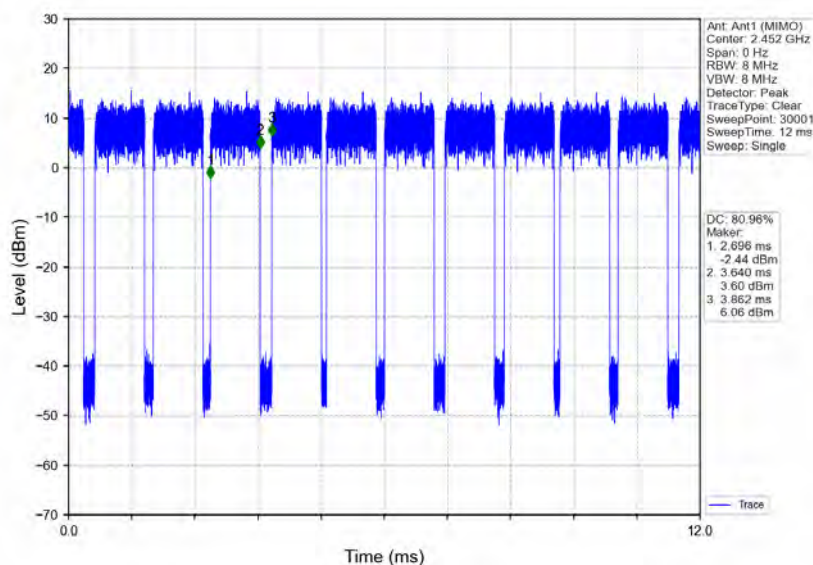
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT40) HCH_2452MHz_Ant1 (MIMO) NTN



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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	14.860	Pass
			2	14.790	Pass
		2437	1	14.938	Pass
			2	14.902	Pass
		2462	1	14.899	Pass
			2	14.869	Pass
802.11g	SISO	2412	1	17.263	Pass
			2	17.191	Pass
		2437	1	17.203	Pass
			2	17.162	Pass
		2462	1	17.348	Pass
			2	17.420	Pass
802.11n (HT20)	MIMO	2412	1	18.249	Pass
			2	18.373	Pass
		2437	1	18.483	Pass
			2	18.555	Pass
		2462	1	18.314	Pass
			2	18.304	Pass
802.11n (HT40)	MIMO	2422	1	36.423	Pass
			2	36.648	Pass
		2437	1	36.704	Pass
			2	36.464	Pass
		2452	1	36.709	Pass
			2	36.729	Pass



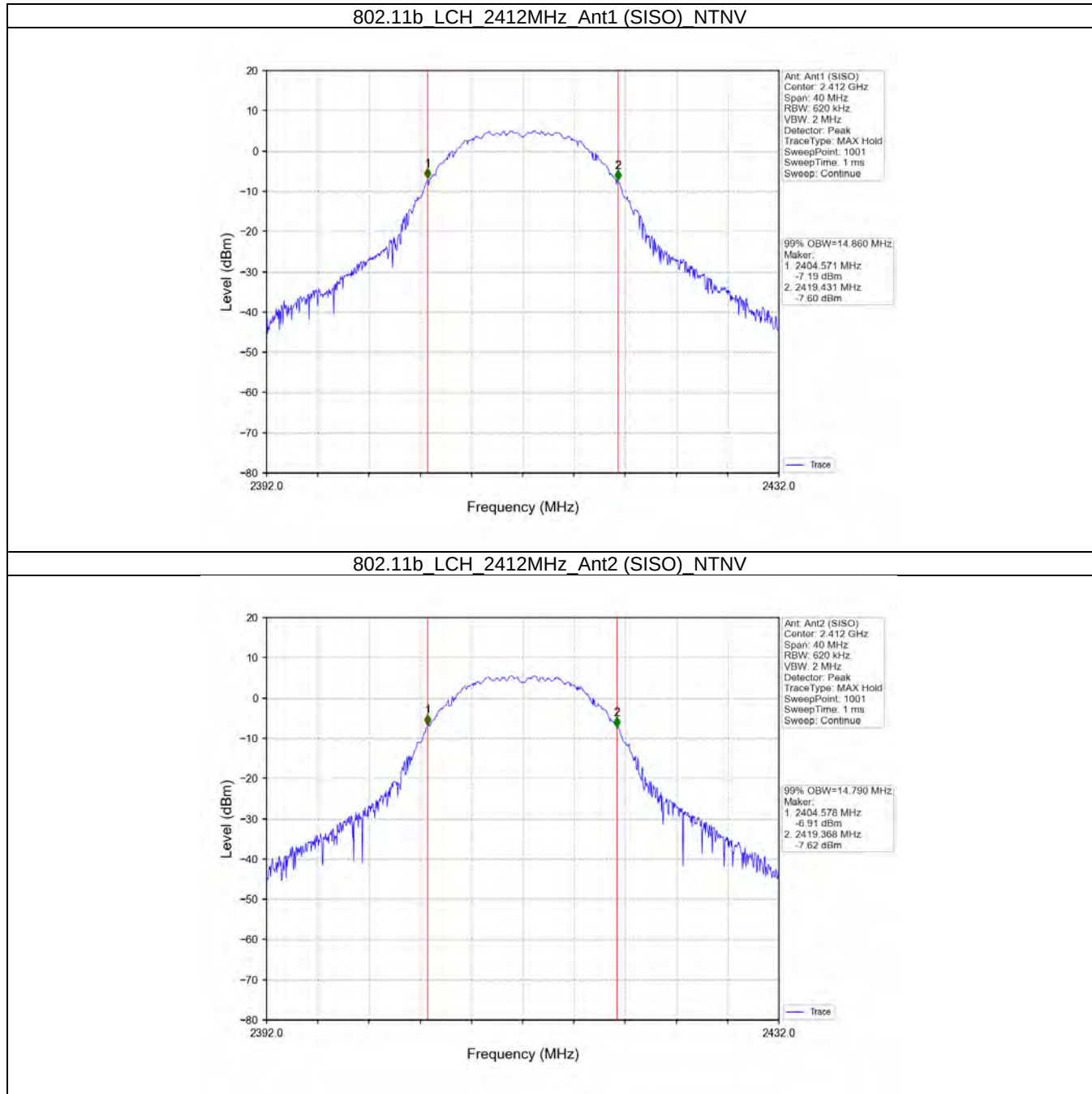
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2.1.2 Test Graph



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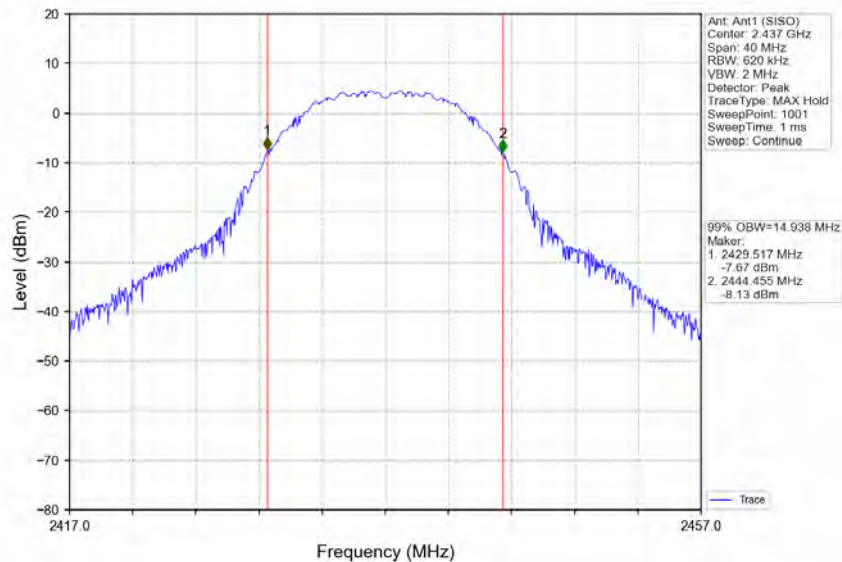
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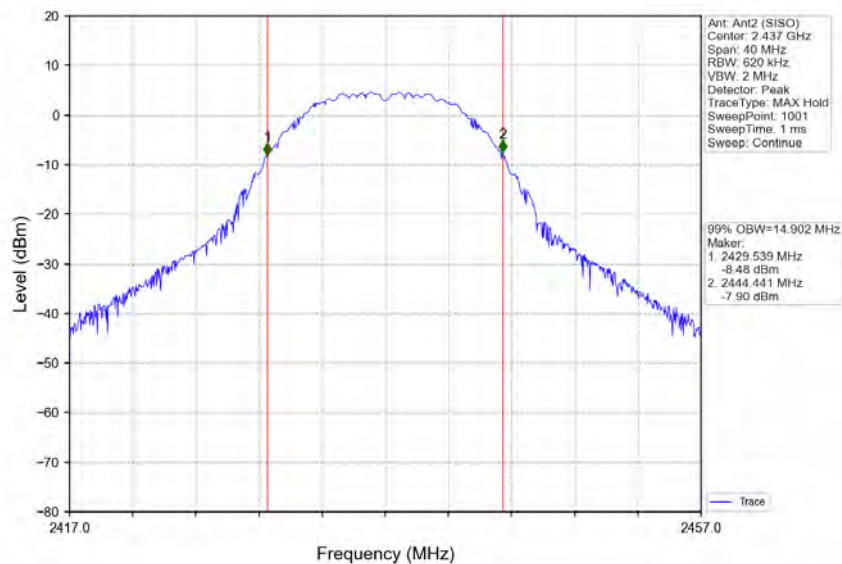
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802.11b MCH 2437MHz Ant1 (SISO) NTNV



802.11b MCH 2437MHz Ant2 (SISO) NTNV



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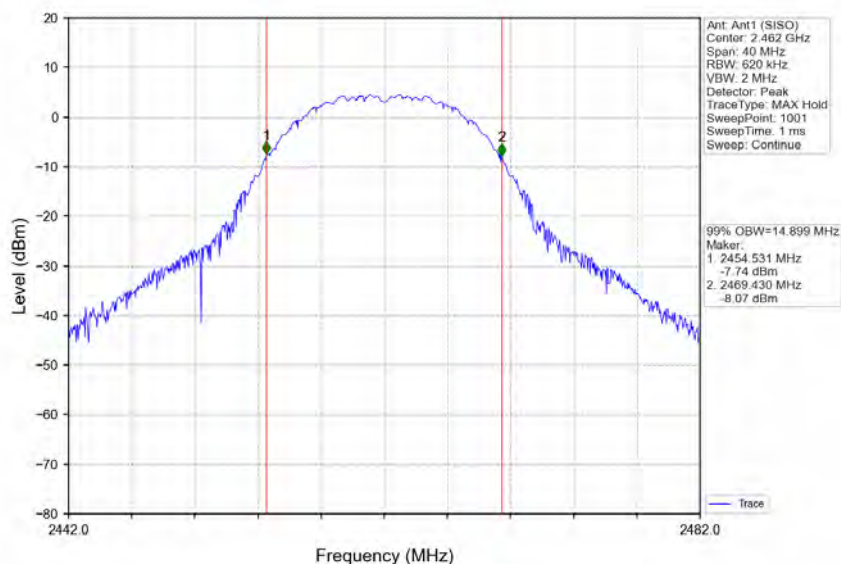
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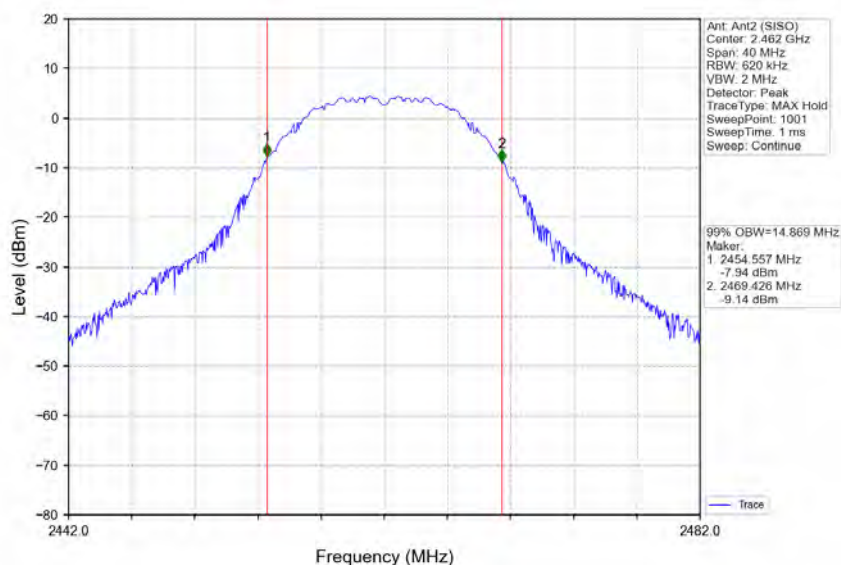
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11b HCH 2462MHz Ant2 (SISO) NTNV



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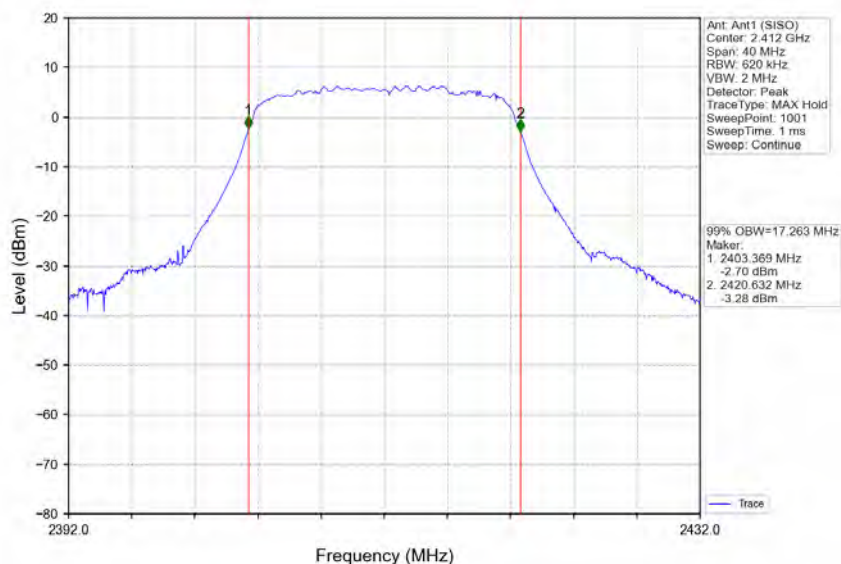
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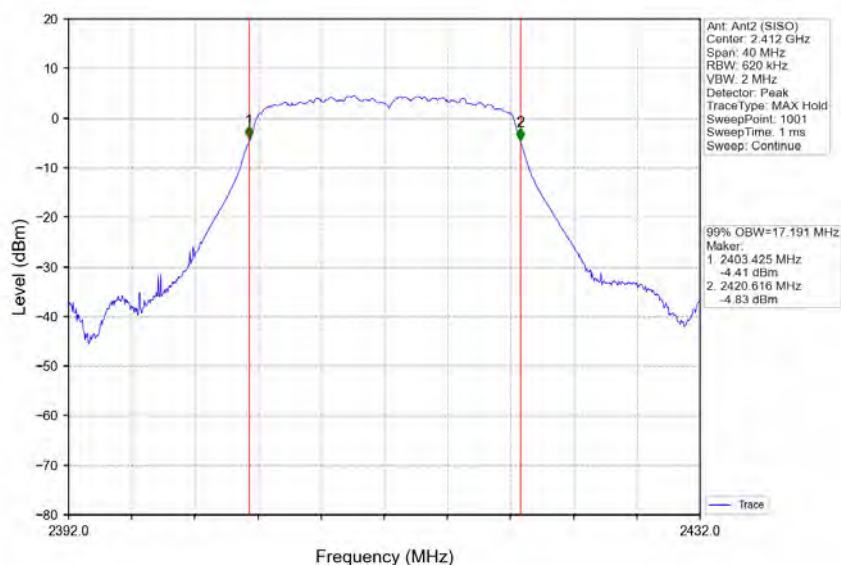
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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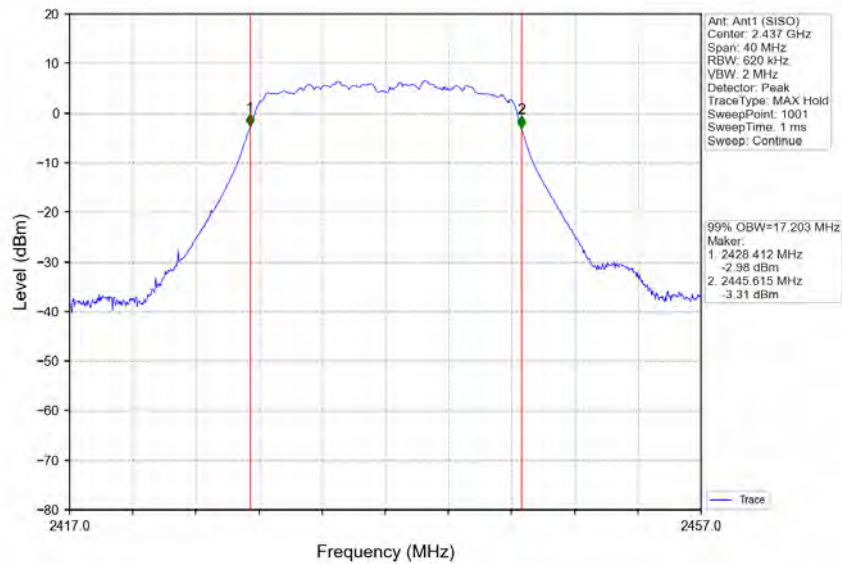
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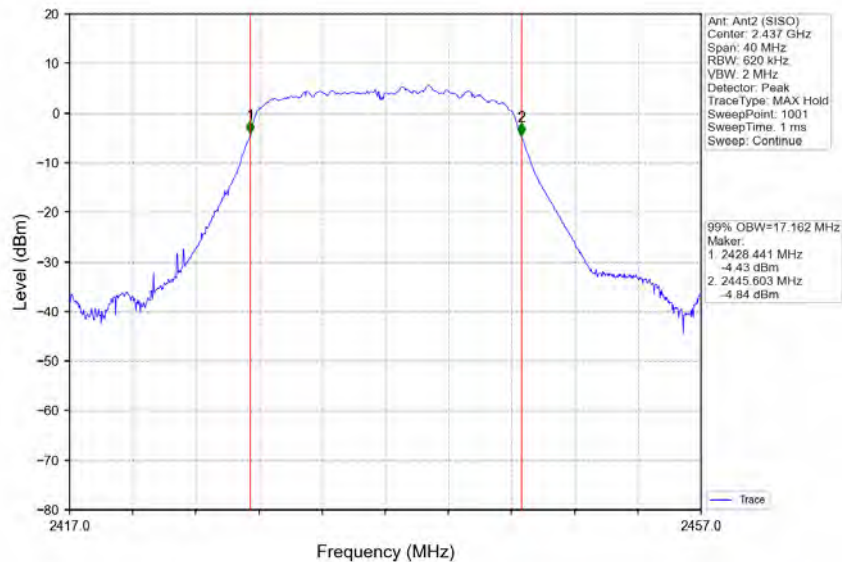
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802.11g MCH 2437MHz Ant2 (SISO) NTNV



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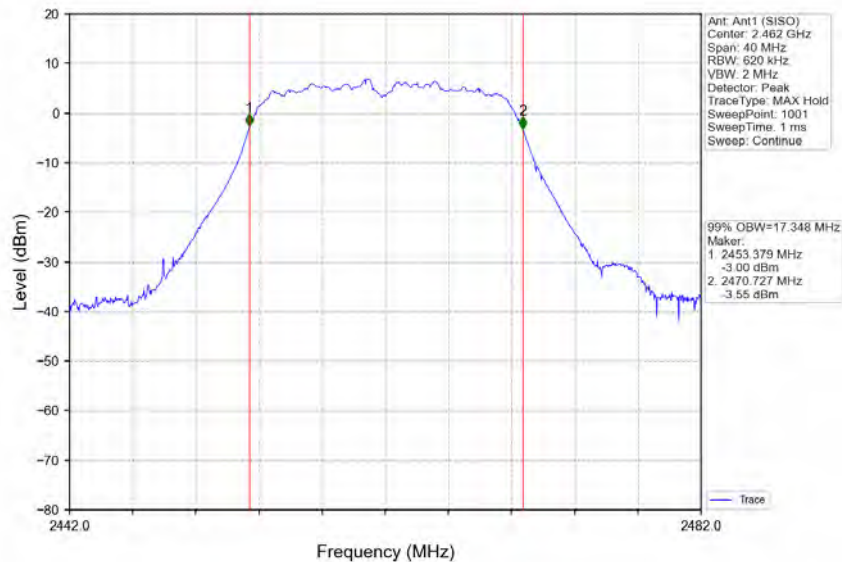
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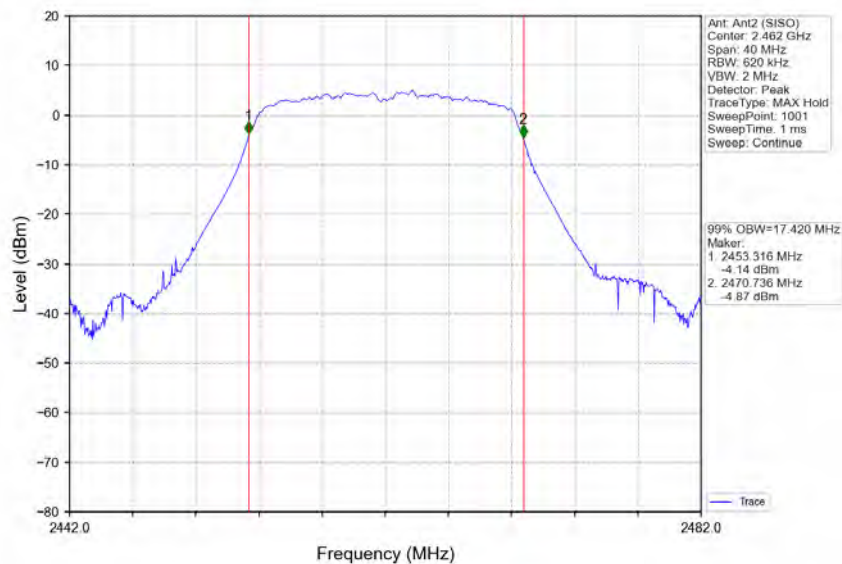
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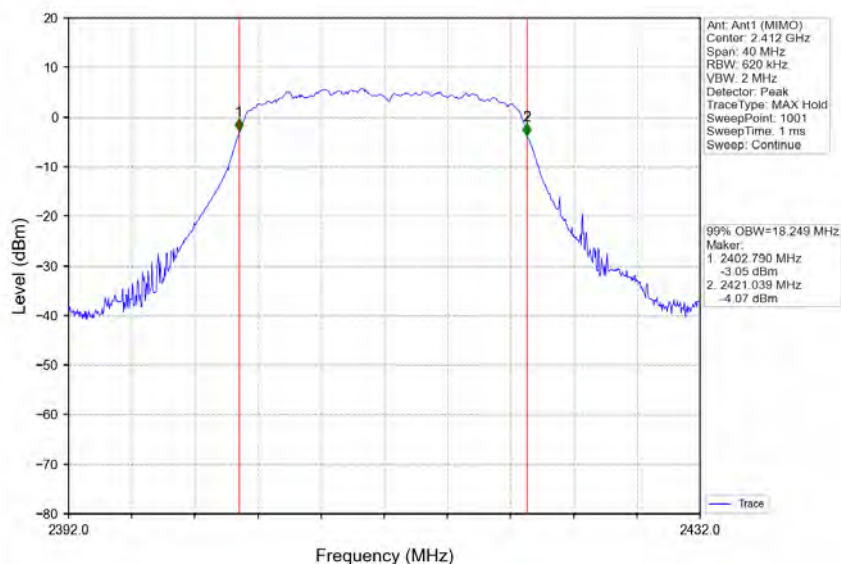
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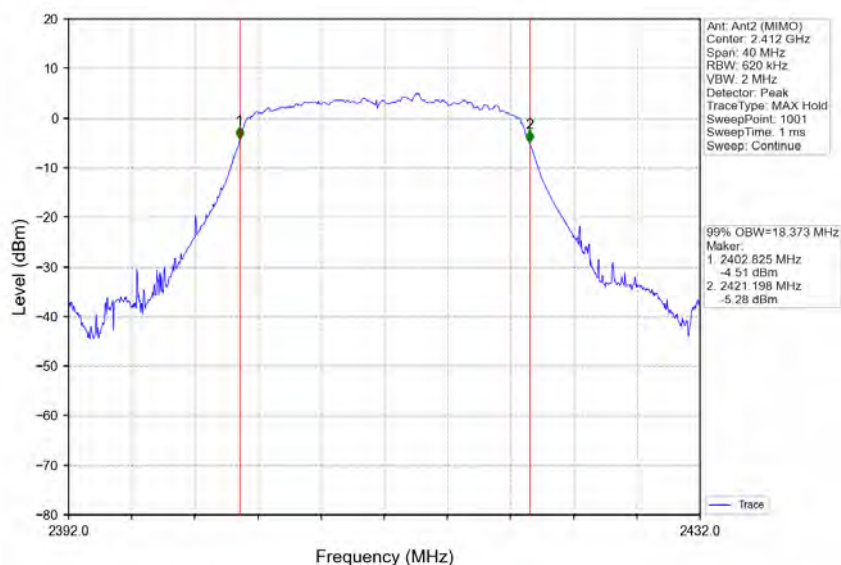
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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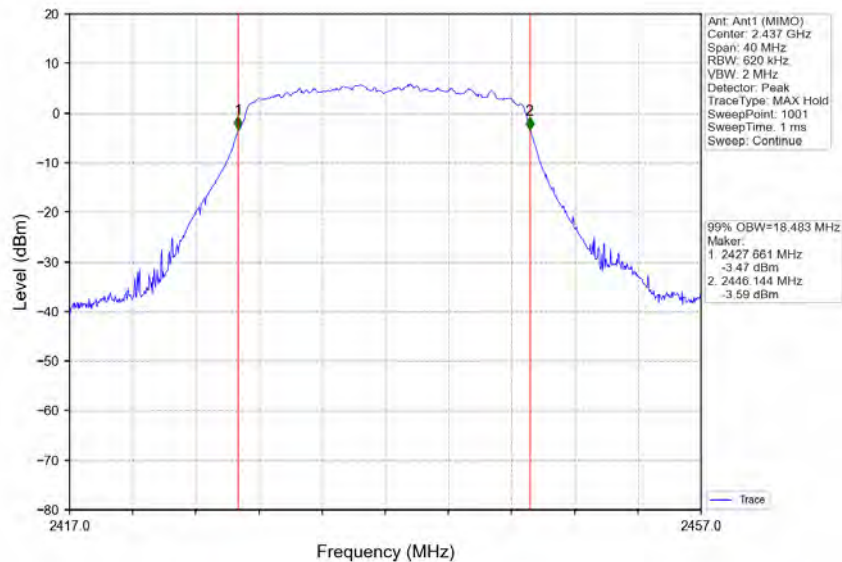
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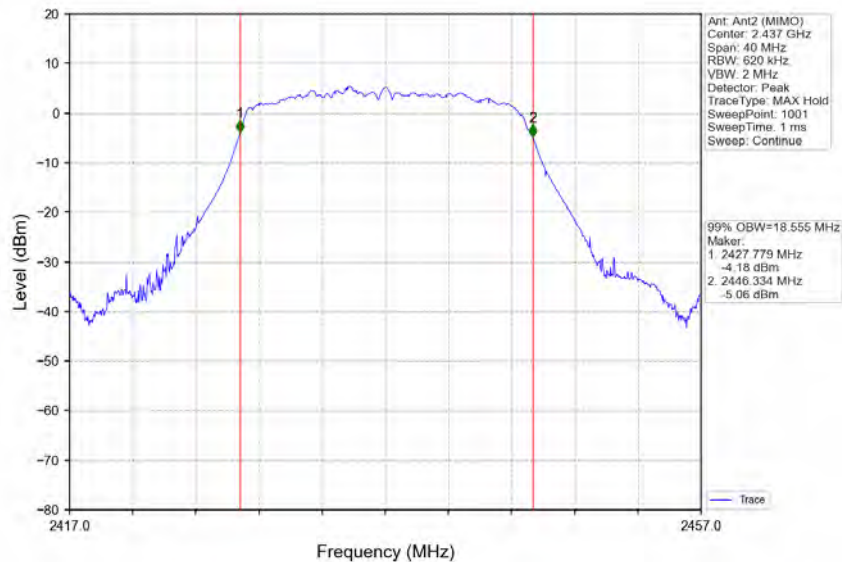
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



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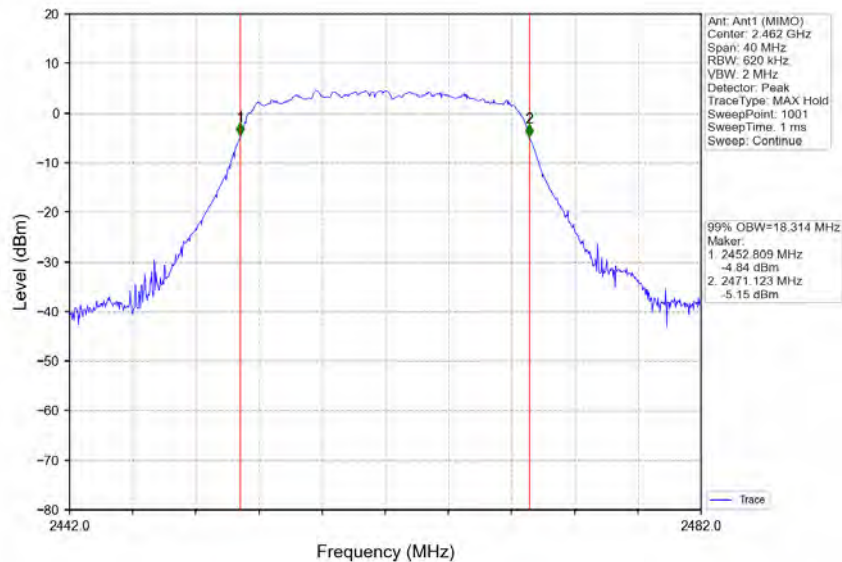
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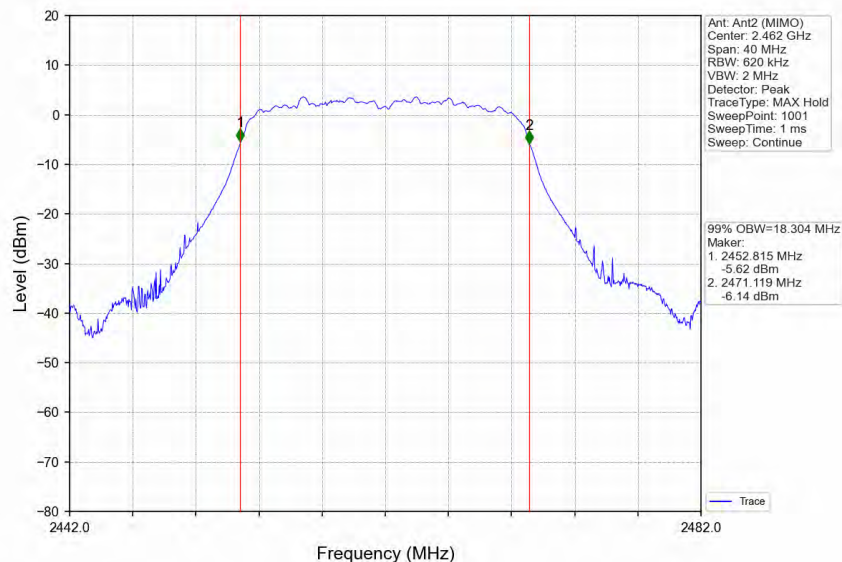
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



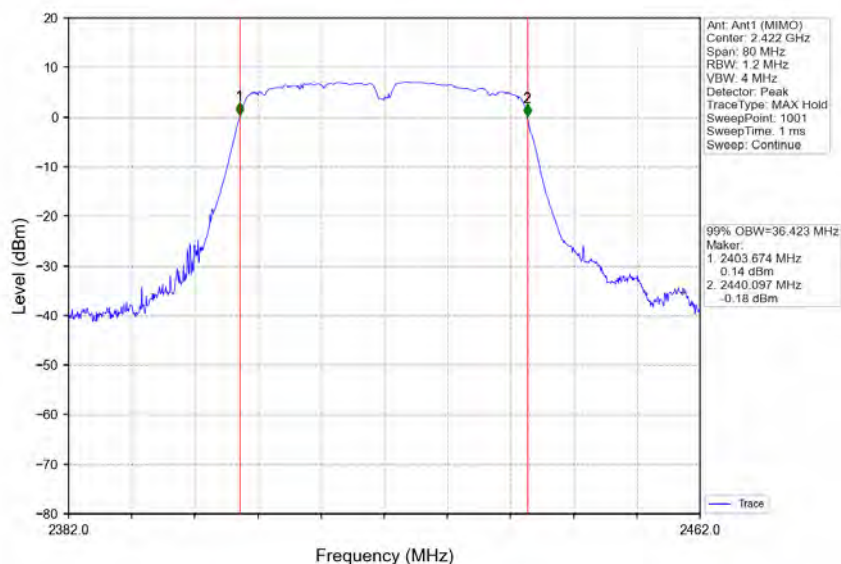
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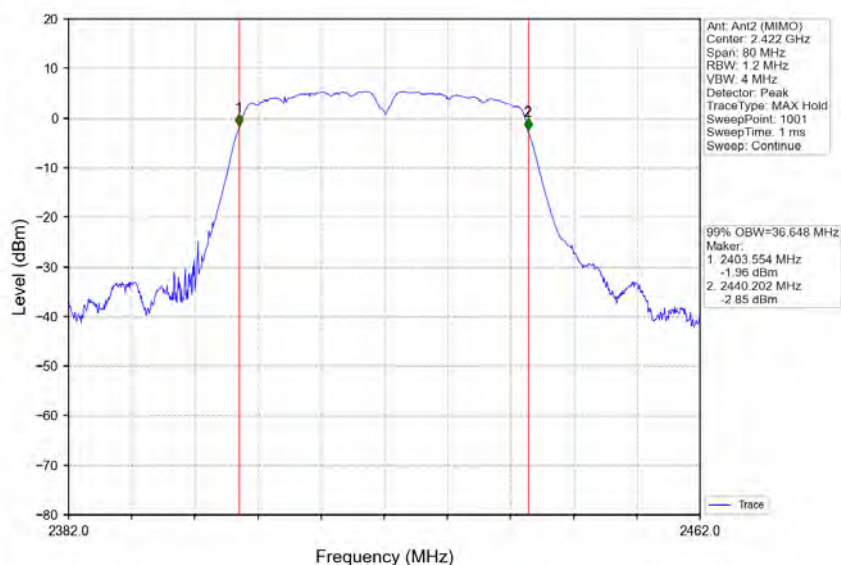
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802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTVN



802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTVN



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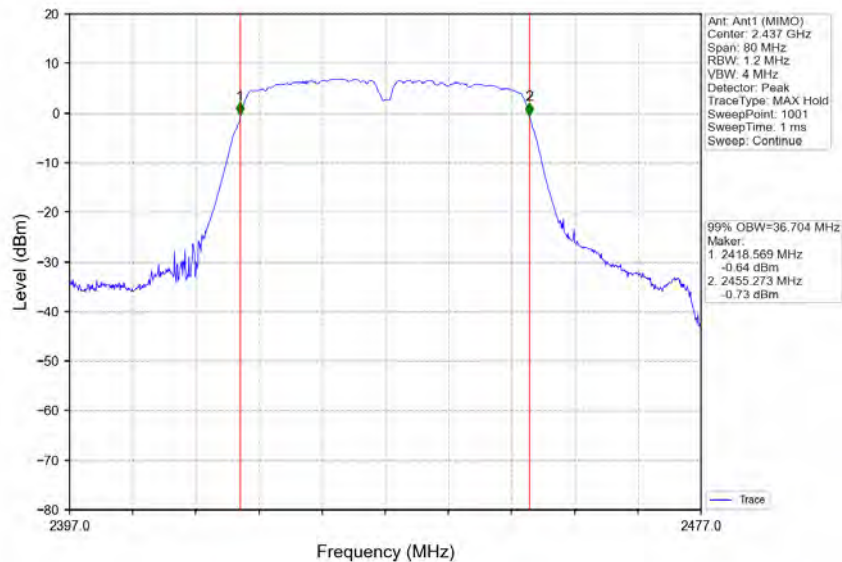
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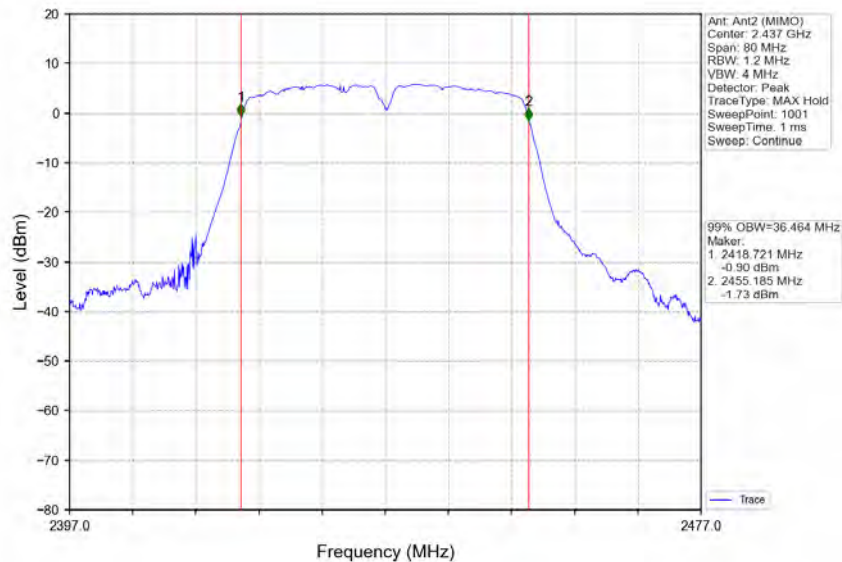
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTN



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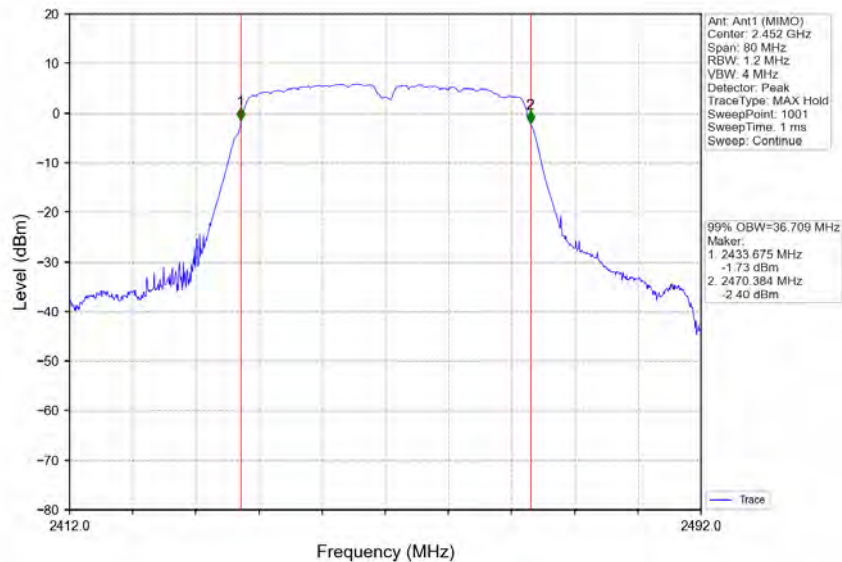
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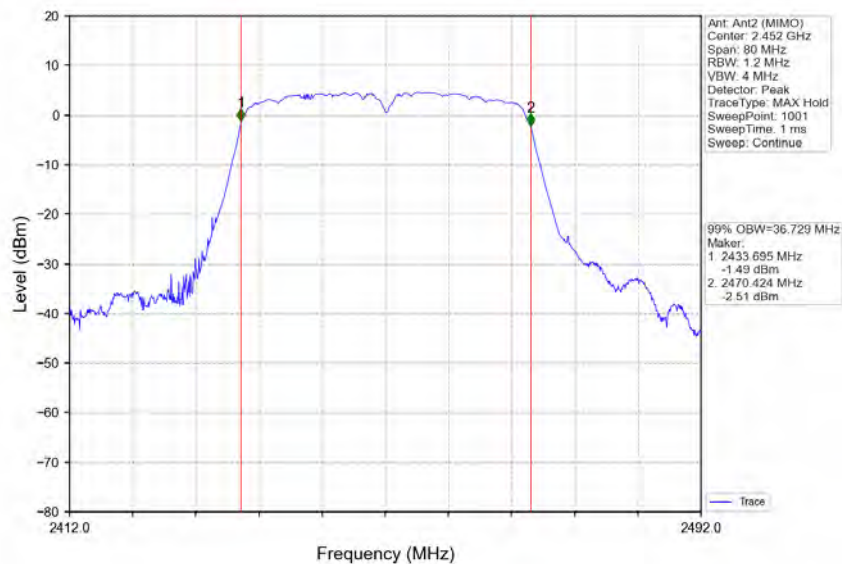
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802.11n(HT40) HCH_2452MHz_Ant1 (MIMO) NTN



802.11n(HT40) HCH_2452MHz_Ant2 (MIMO) NTN



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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	10.128	≥ 0.5	Pass
			2	10.126	≥ 0.5	Pass
		2437	1	10.129	≥ 0.5	Pass
			2	10.127	≥ 0.5	Pass
		2462	1	10.128	≥ 0.5	Pass
			2	10.127	≥ 0.5	Pass
802.11g	SISO	2412	1	15.824	≥ 0.5	Pass
			2	15.854	≥ 0.5	Pass
		2437	1	15.822	≥ 0.5	Pass
			2	16.057	≥ 0.5	Pass
		2462	1	15.700	≥ 0.5	Pass
			2	15.829	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.947	≥ 0.5	Pass
			2	16.296	≥ 0.5	Pass
		2437	1	16.571	≥ 0.5	Pass
			2	16.680	≥ 0.5	Pass
		2462	1	16.042	≥ 0.5	Pass
			2	16.501	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.175	≥ 0.5	Pass
			2	35.172	≥ 0.5	Pass
		2437	1	35.176	≥ 0.5	Pass
			2	35.173	≥ 0.5	Pass
		2452	1	35.174	≥ 0.5	Pass
			2	35.173	≥ 0.5	Pass



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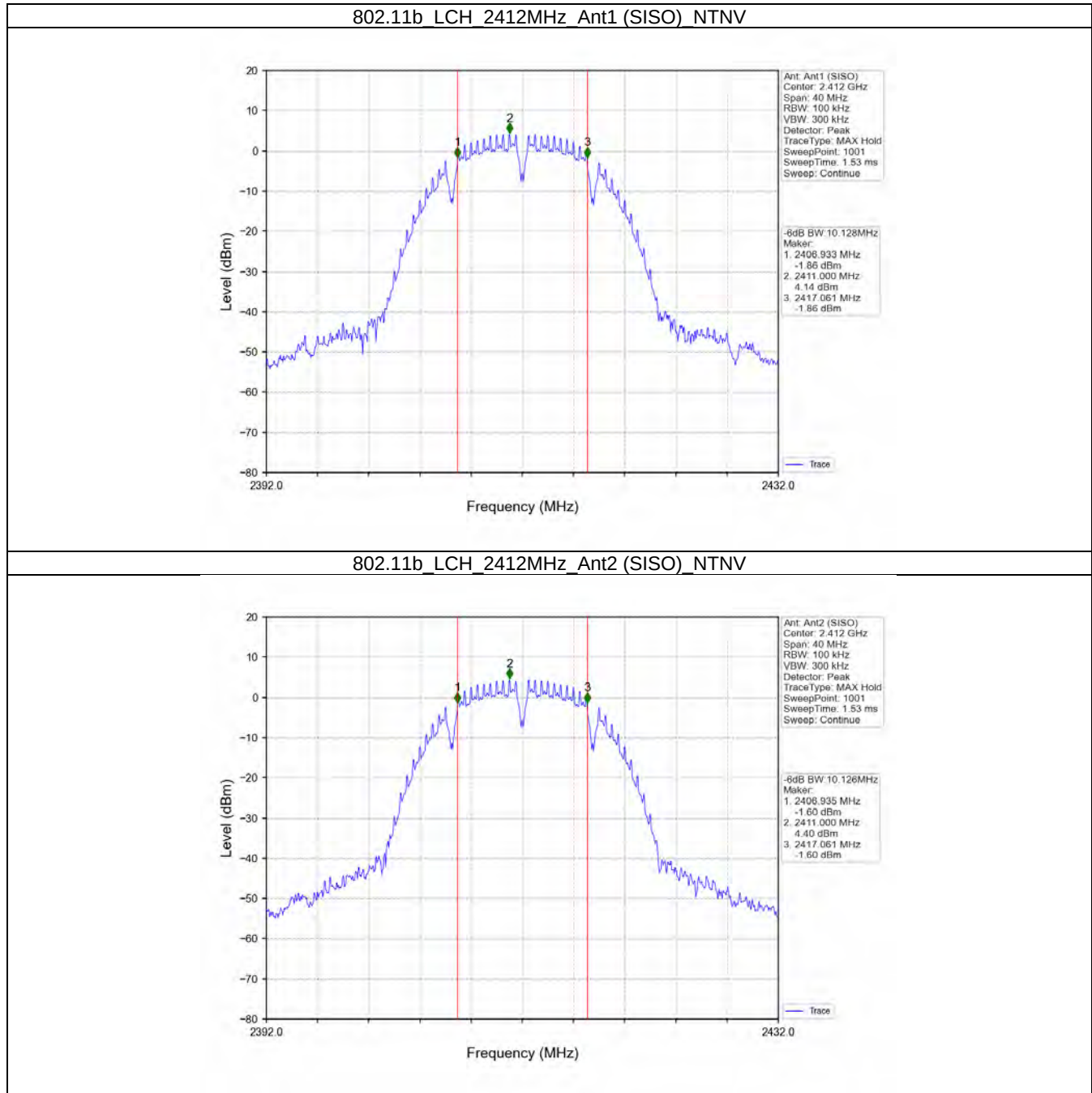
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2.2.2 Test Graph



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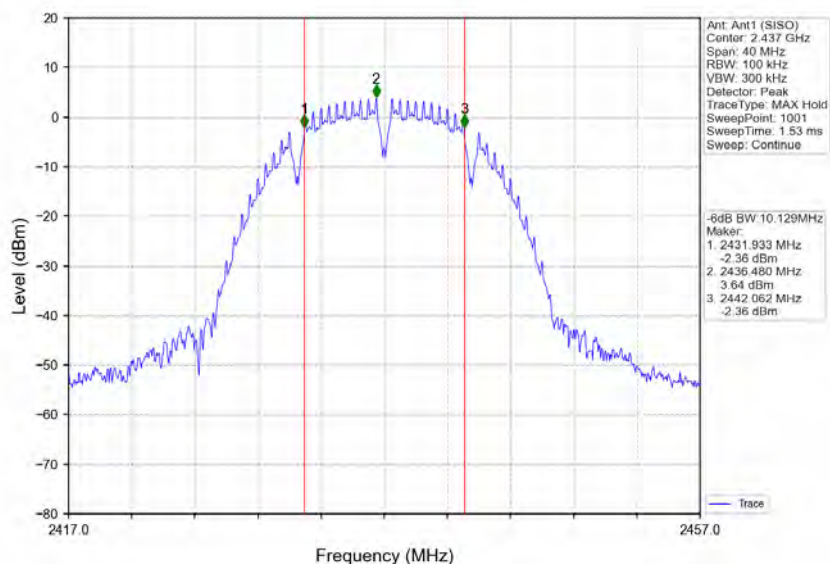
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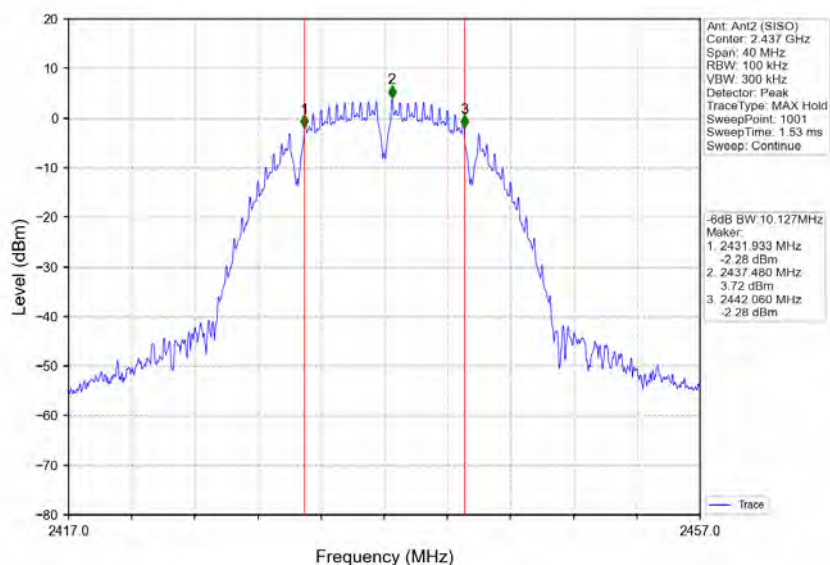
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802.11b MCH 2437MHz Ant1 (SISO) NTNV



802.11b MCH 2437MHz Ant2 (SISO) NTNV



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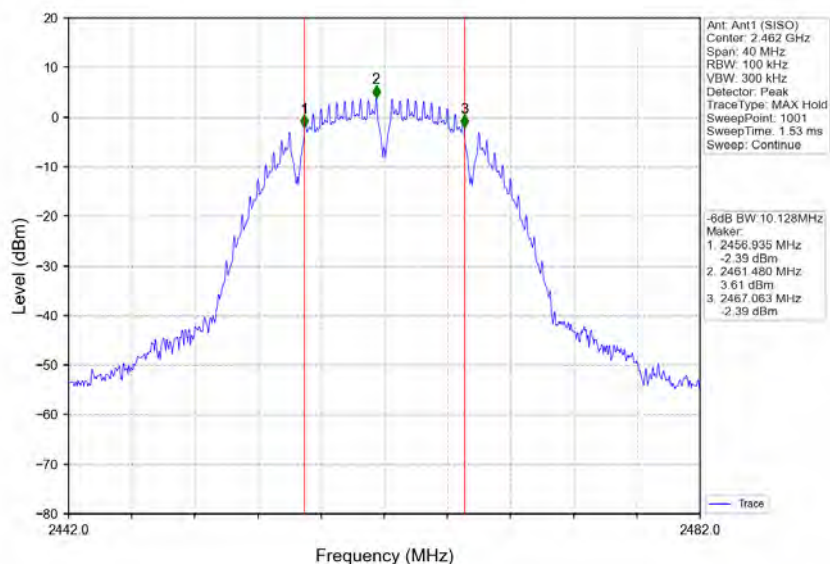
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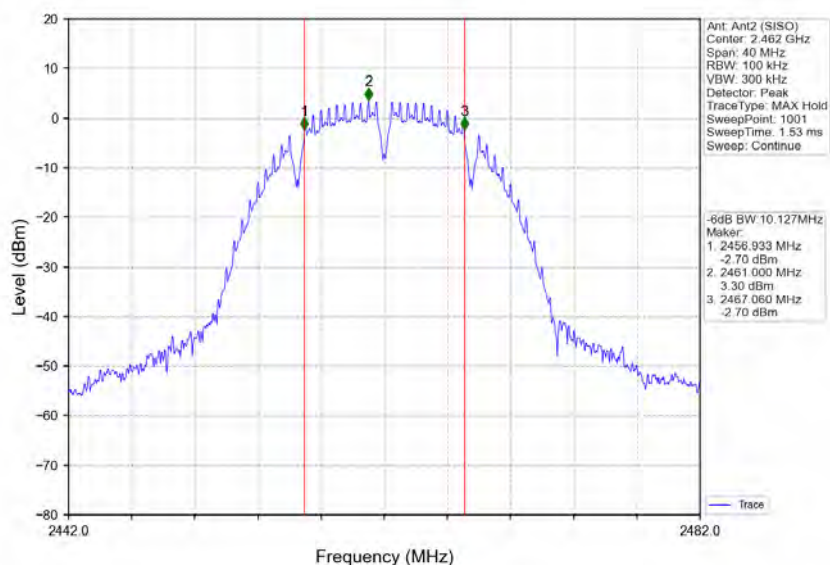
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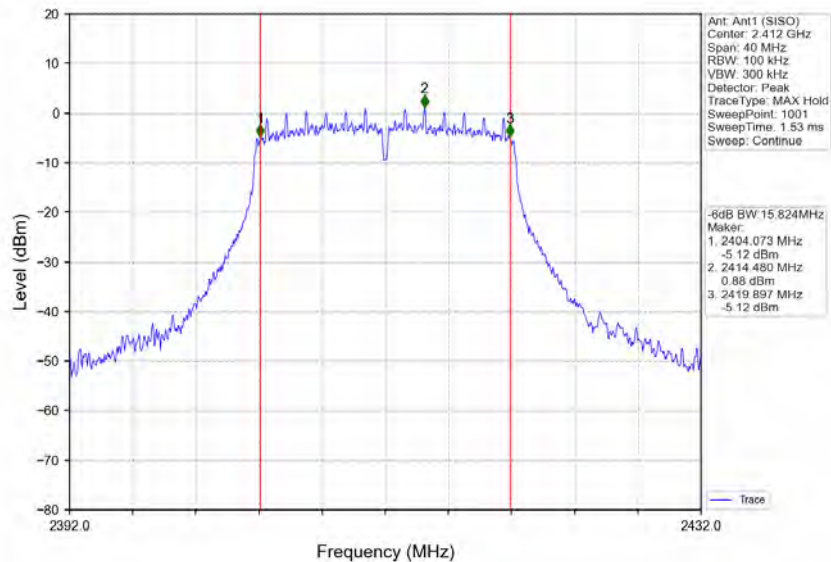
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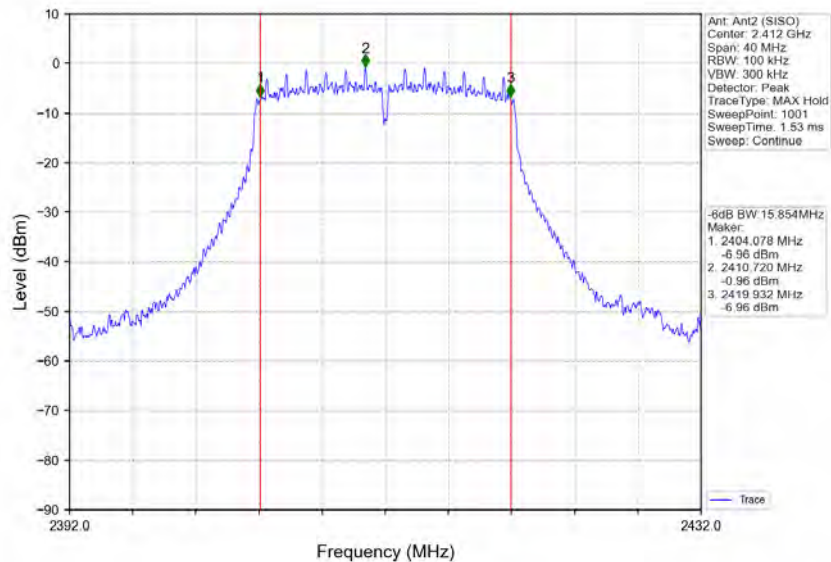
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802.11g LCH 2412MHz Ant1 (SISO) NTN



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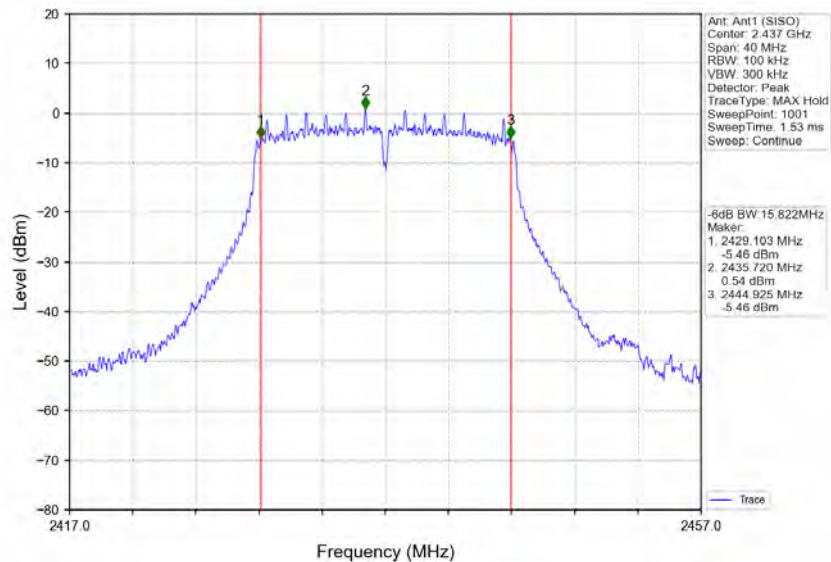
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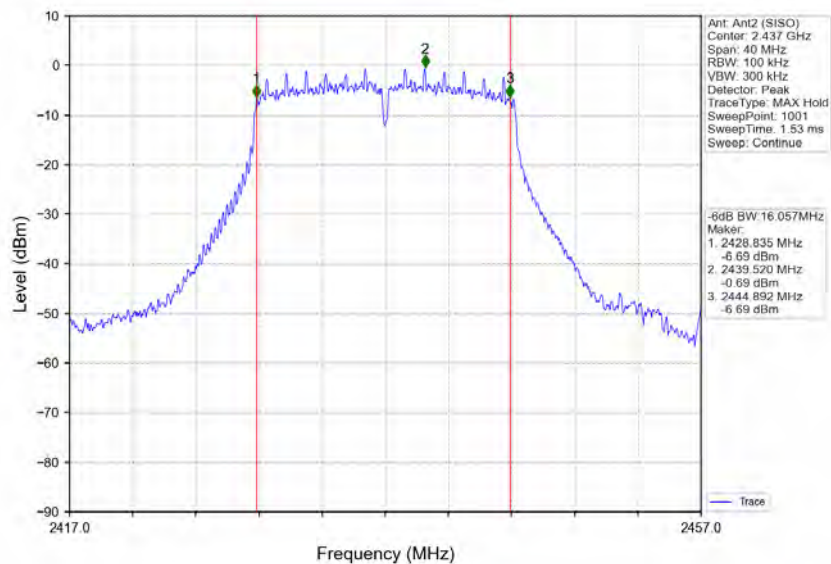
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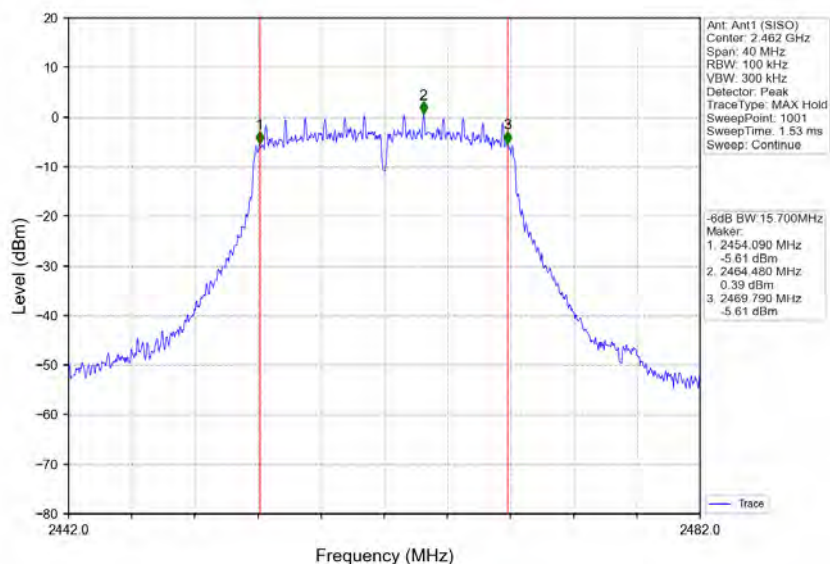
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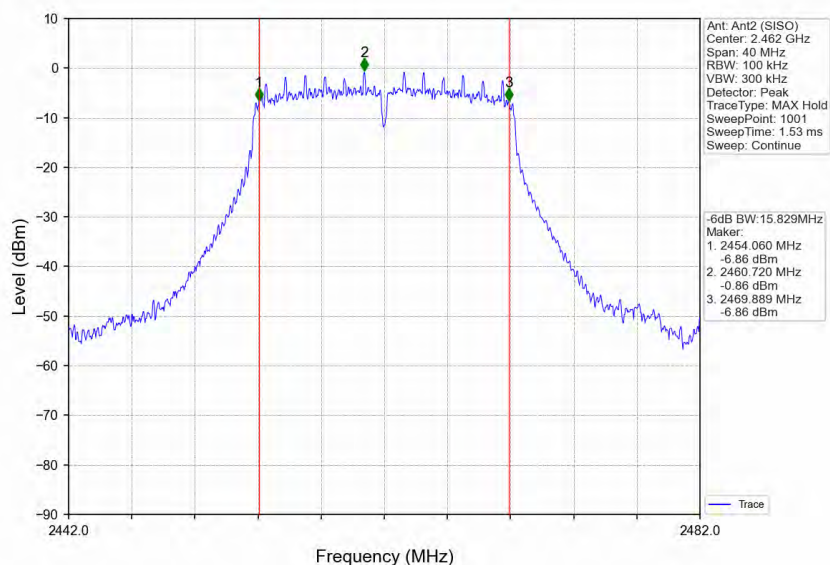
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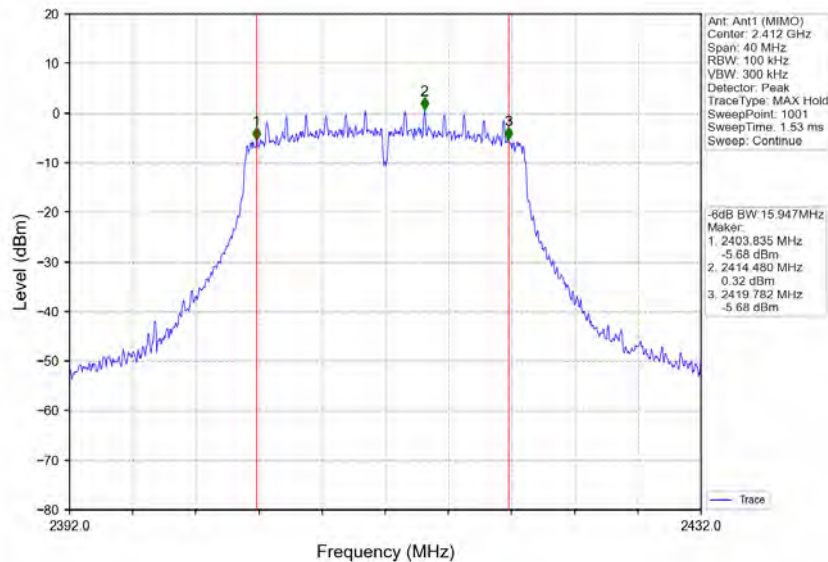
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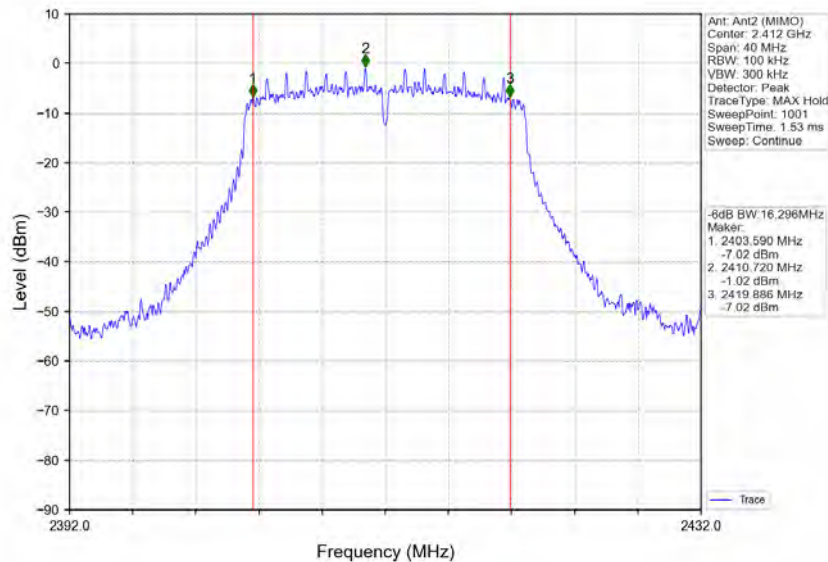
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



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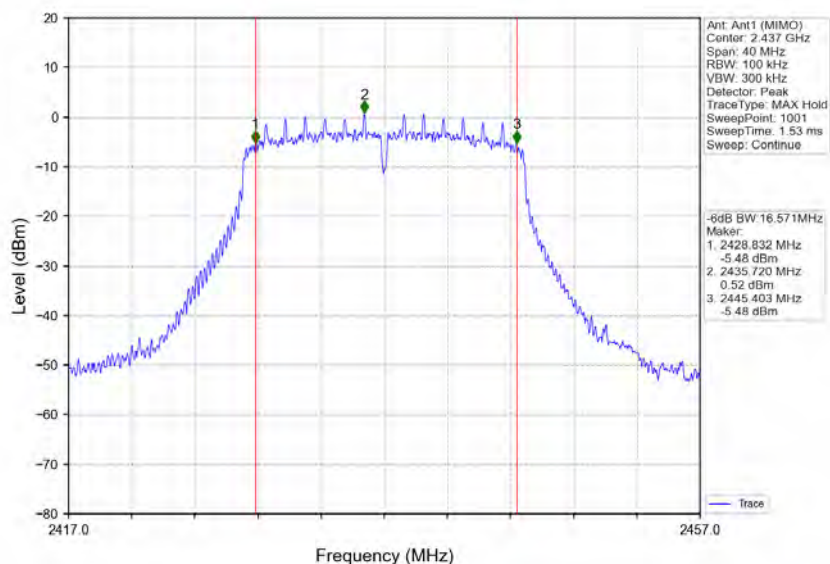
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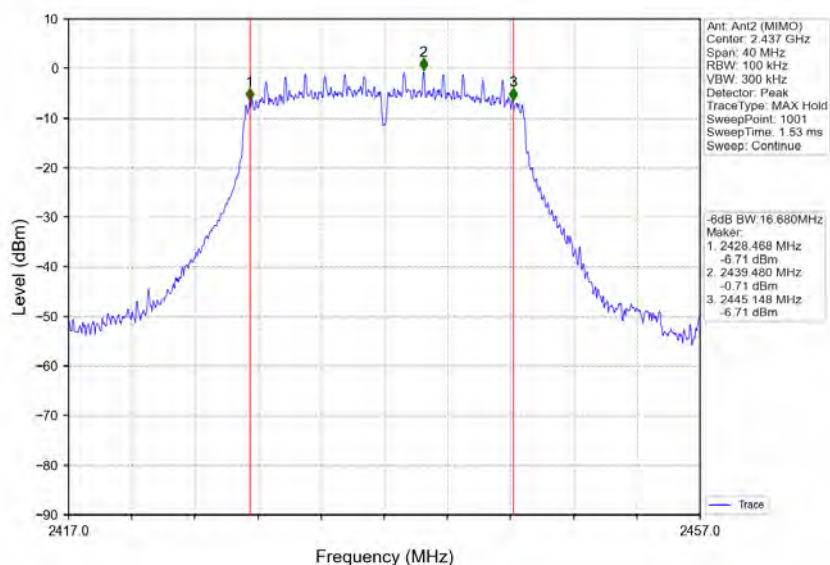
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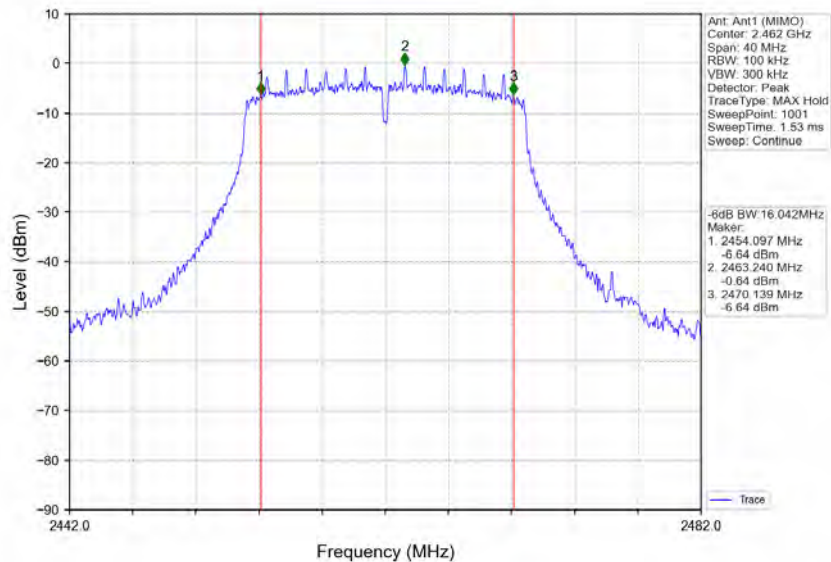
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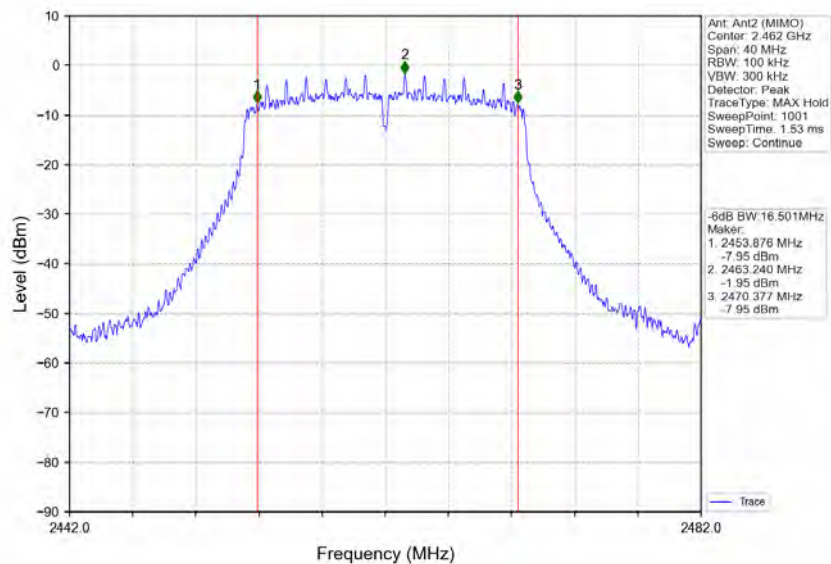
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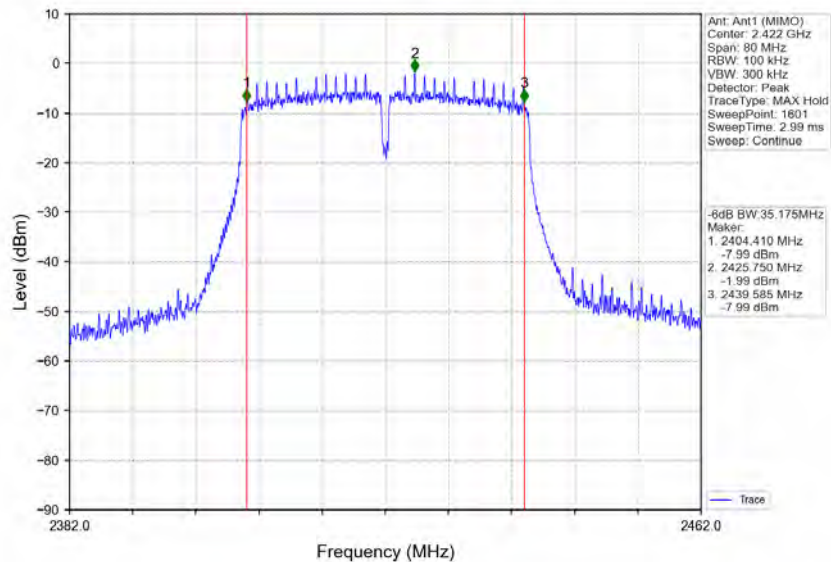
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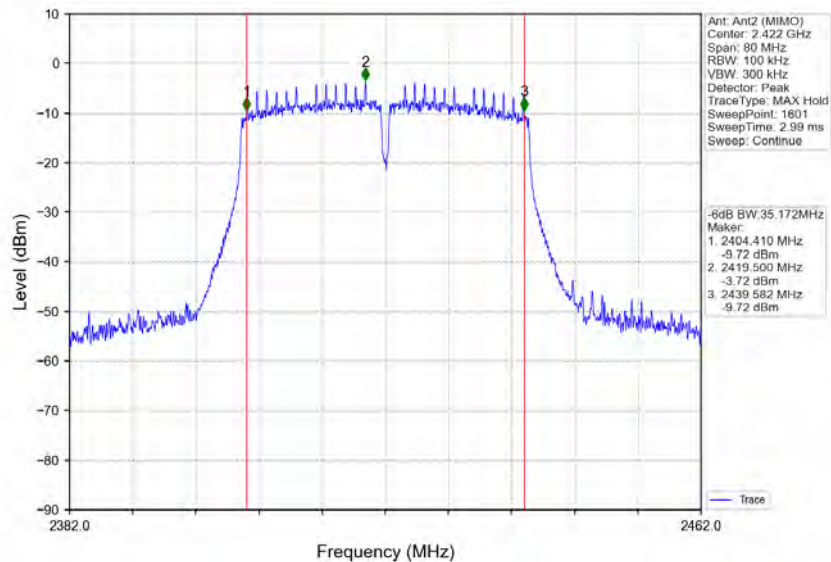
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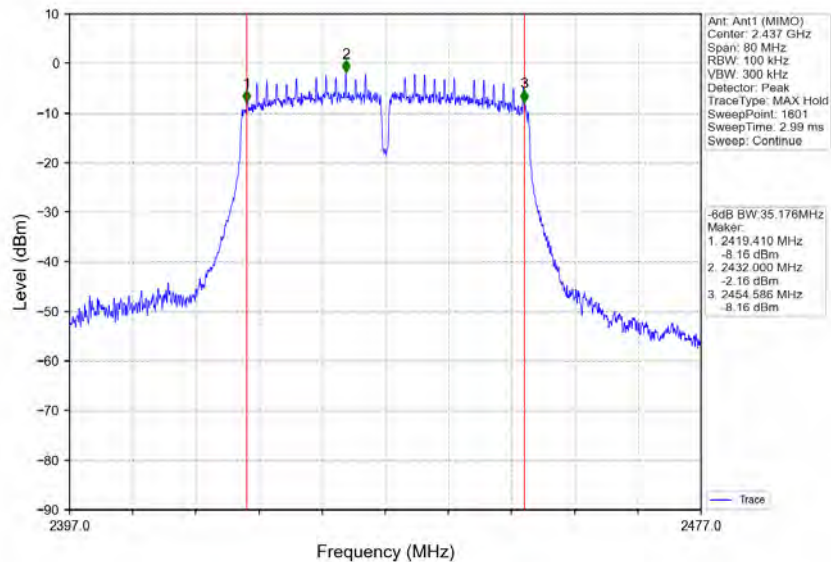
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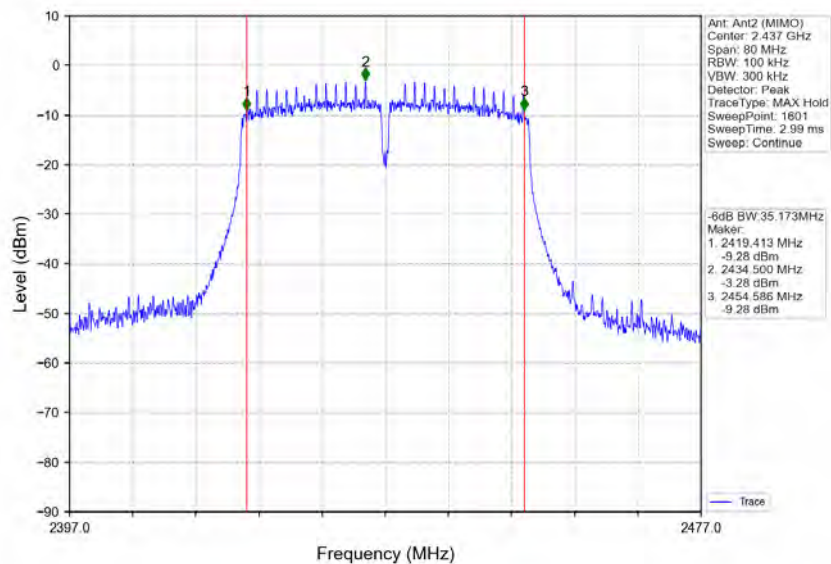
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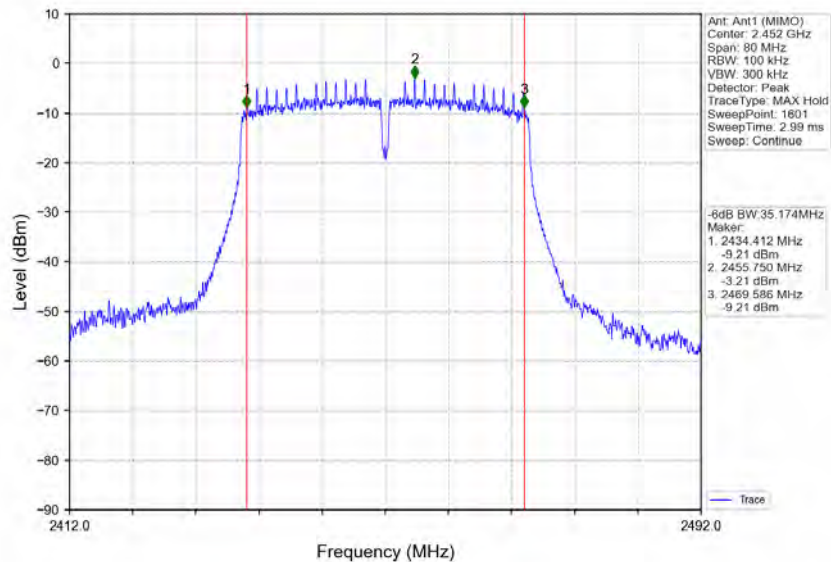
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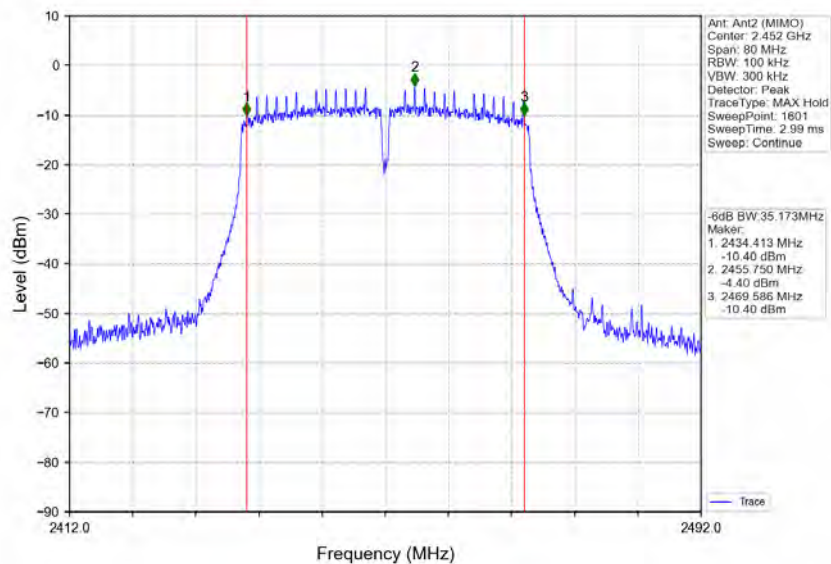
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3. Maximum Conducted Output Power

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	13.65	13.68	/	<=30	Pass
		2437	13.09	13.03	/	<=30	Pass
		2462	13.01	12.72	/	<=30	Pass
802.11g	SISO	2412	11.97	10.05	/	<=30	Pass
		2437	11.62	10.41	/	<=30	Pass
		2462	11.44	10.25	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.29	9.95	13.68	<=30	Pass
		2437	11.48	10.31	13.94	<=30	Pass
		2462	10.37	9.07	12.78	<=30	Pass
802.11n (HT40)	MIMO	2422	11.87	10.02	14.05	<=30	Pass
		2437	11.71	10.57	14.19	<=30	Pass
		2452	10.68	9.41	13.10	<=30	Pass

Note1: Antenna Gain: Ant1: 3.82dBi; Ant2: -5.95dBi;
Note2: Directional Gain: 3.25dBi



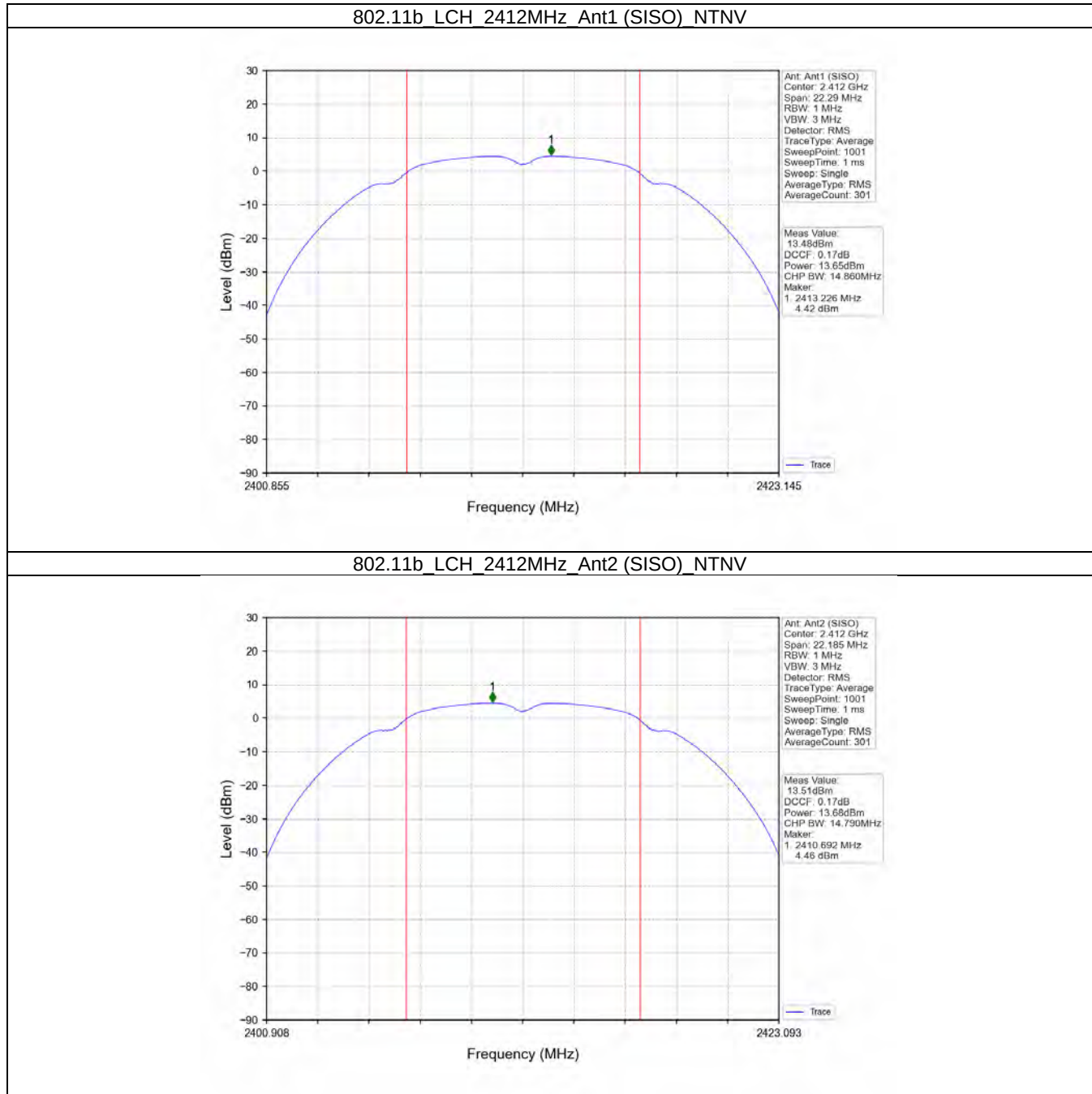
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3.1.2 Test Graph



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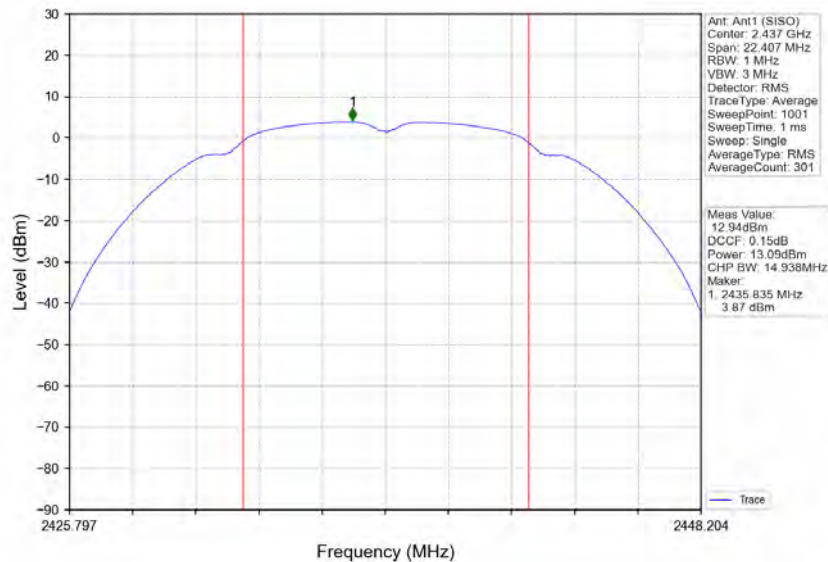
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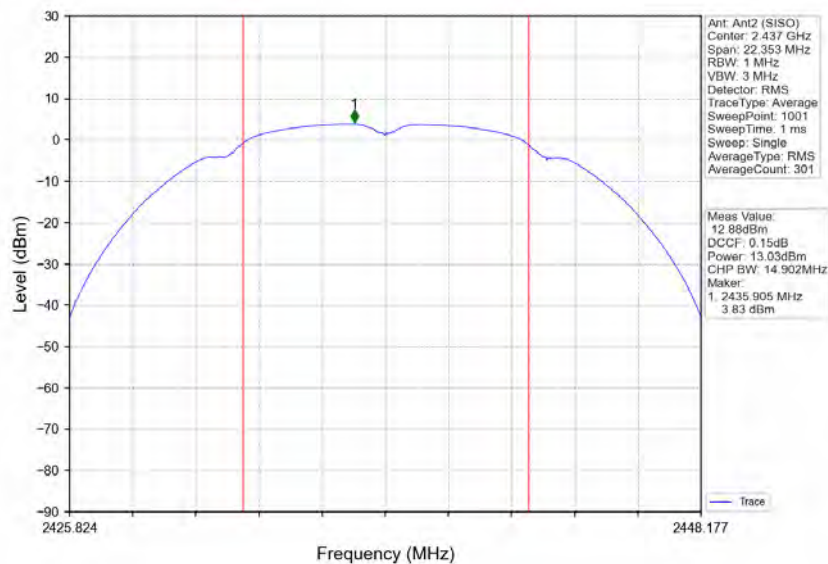
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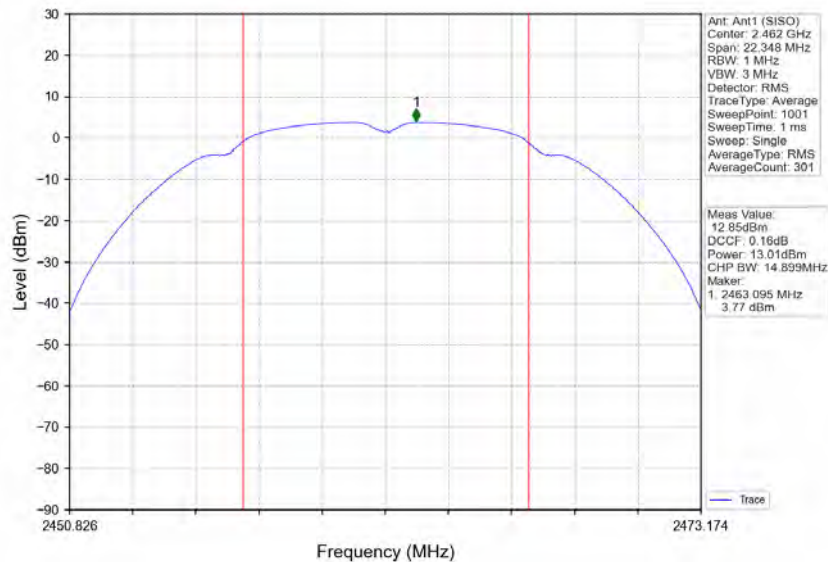
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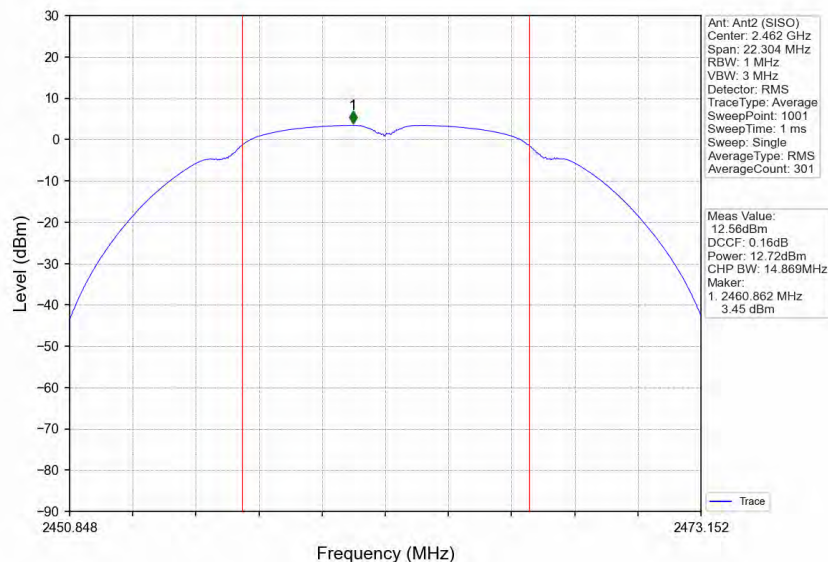
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802.11b HCH 2462MHz Ant2 (SISO) NTN



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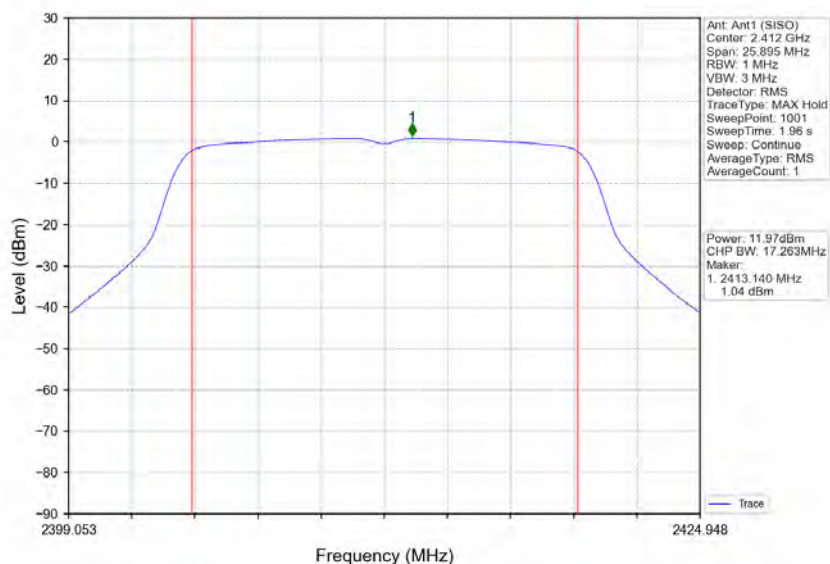
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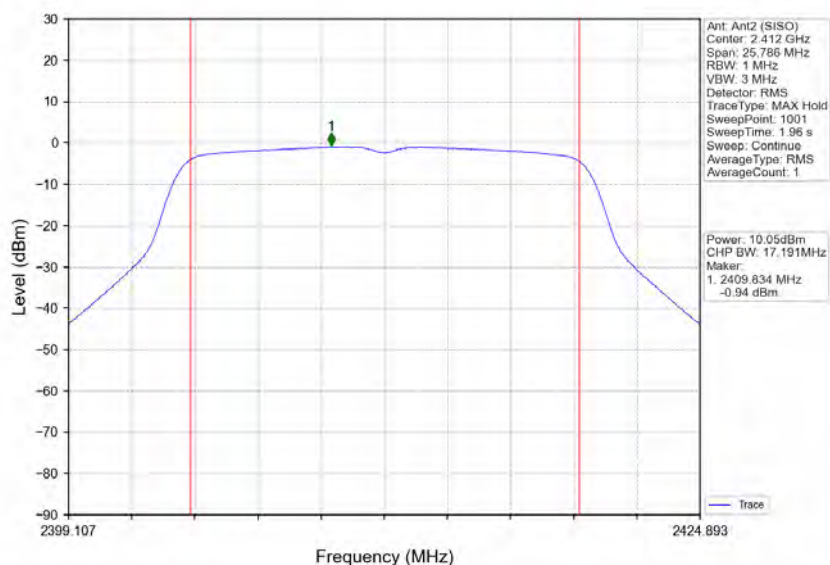
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



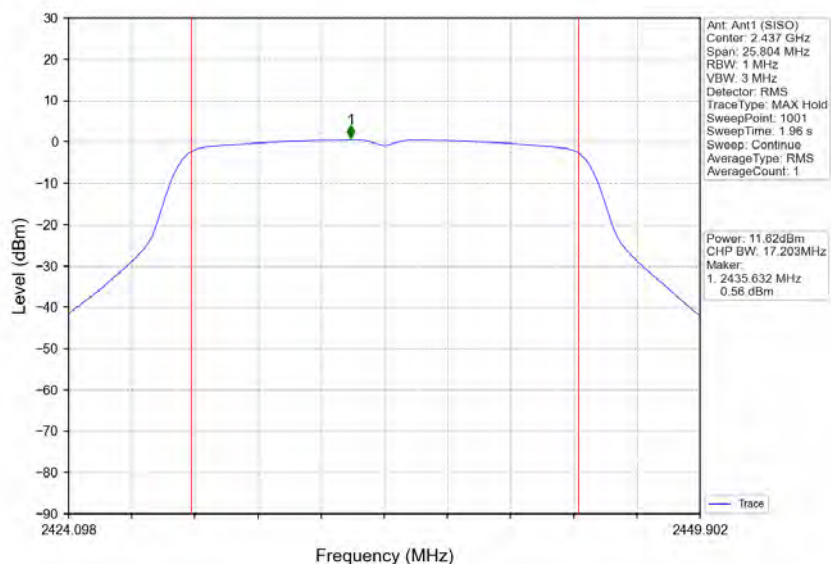
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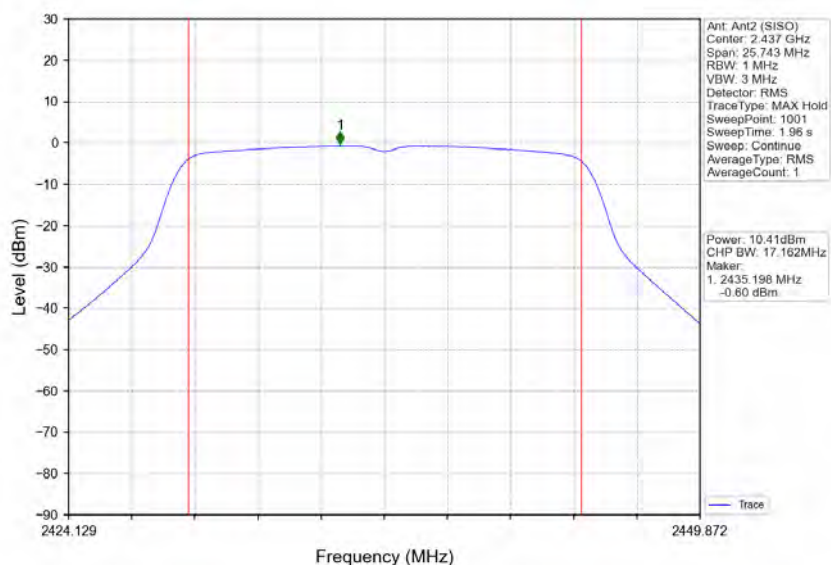
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV

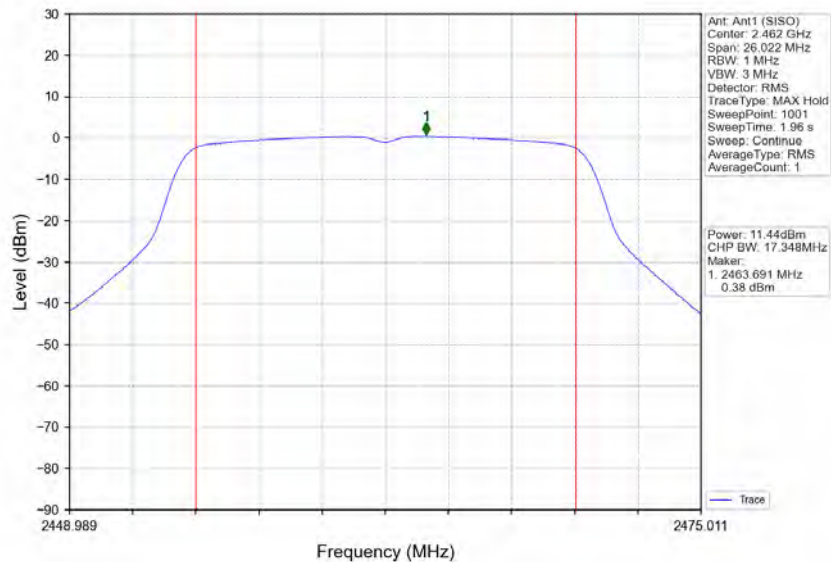


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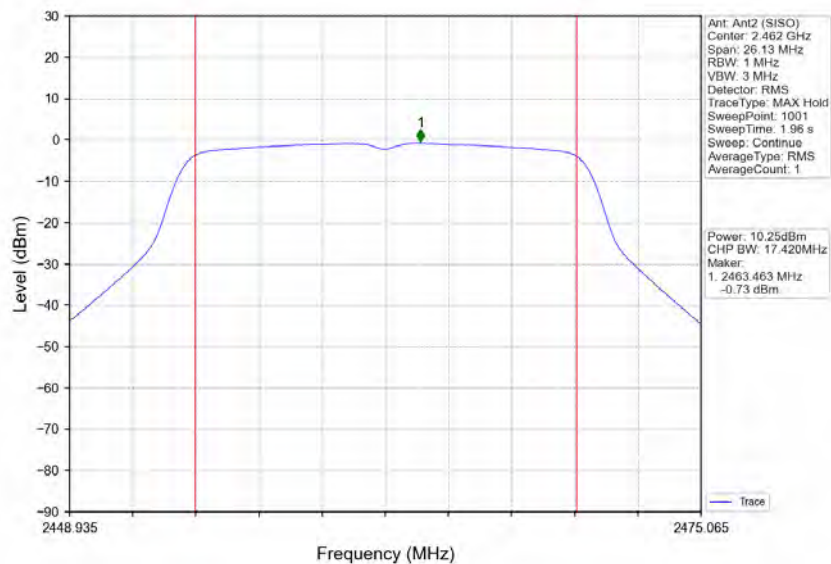
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802.11g_HCH_2462MHz_Ant1 (SISO) NTN



802.11g_HCH_2462MHz_Ant2 (SISO) NTN



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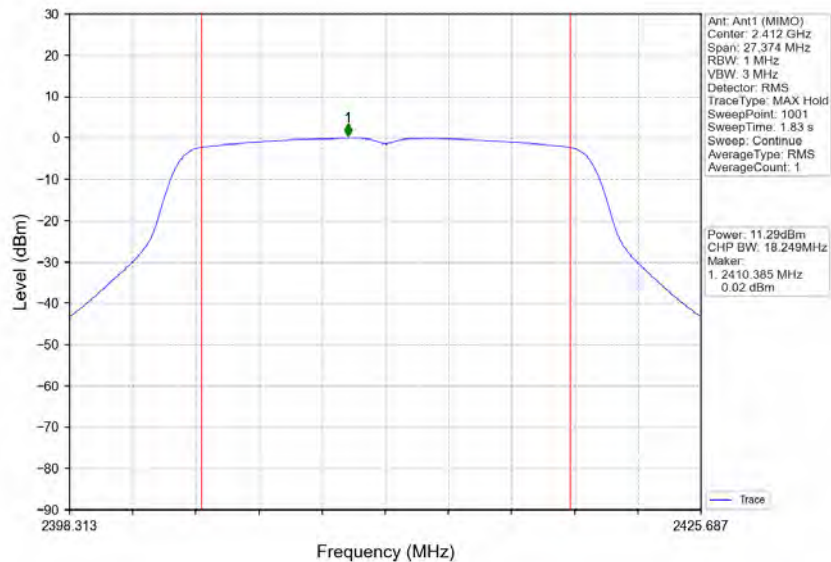
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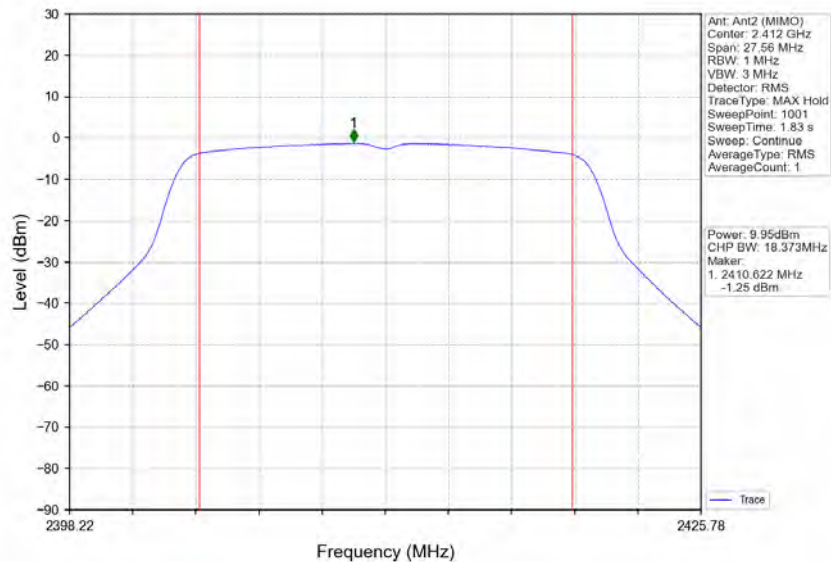
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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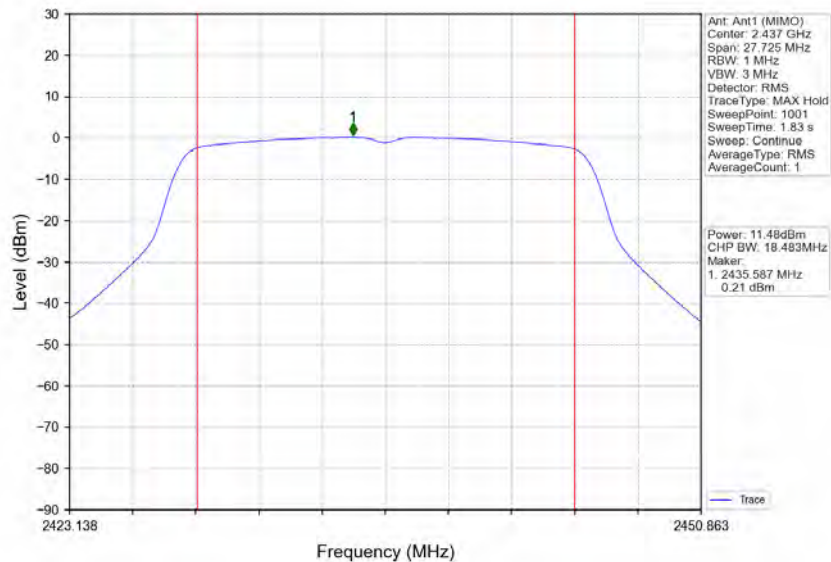
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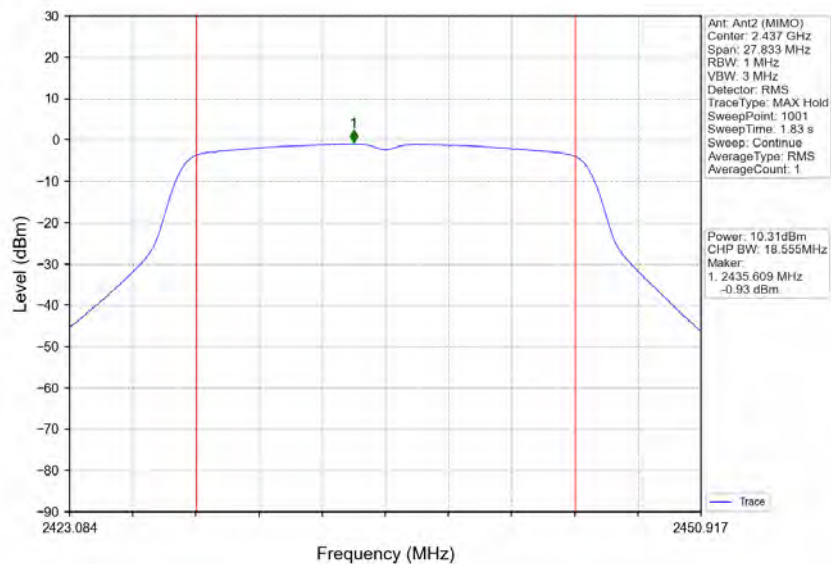
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



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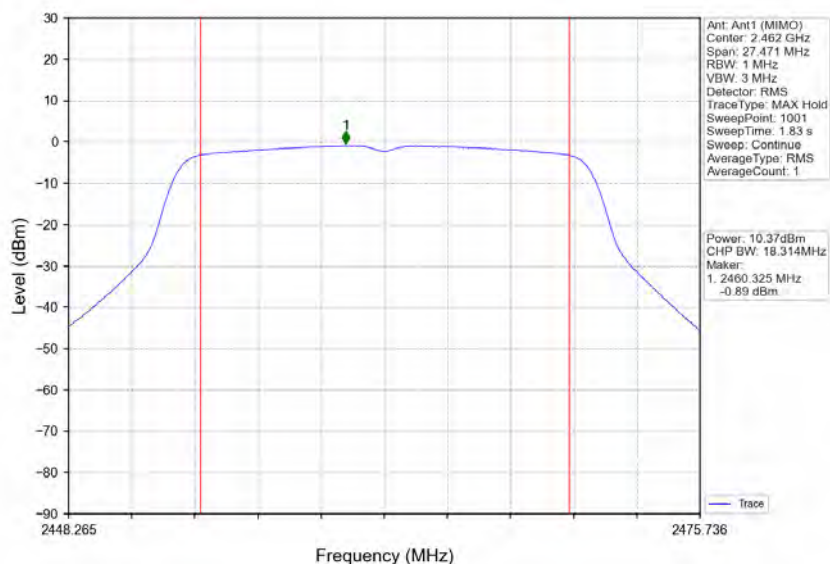
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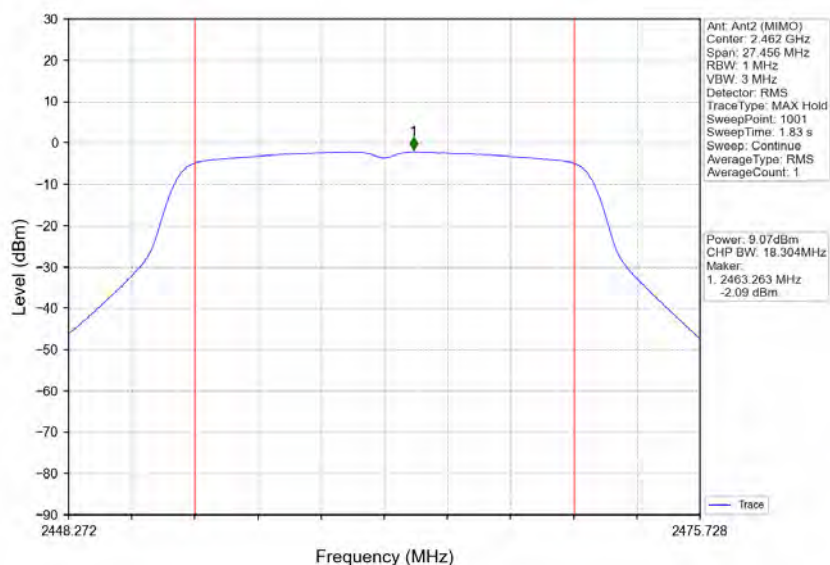
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



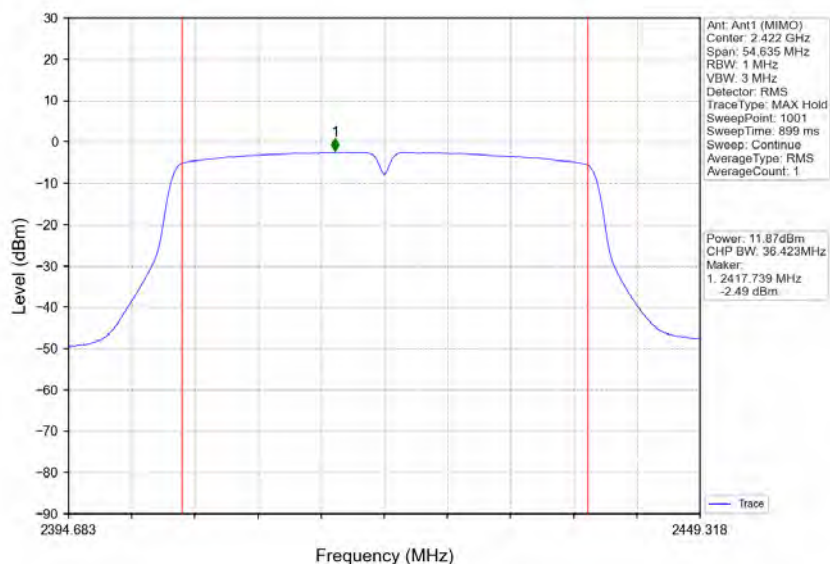
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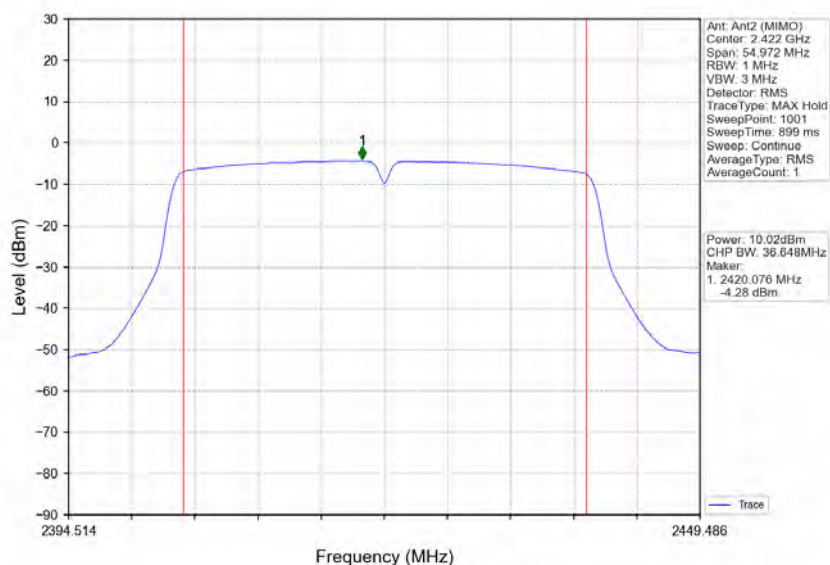
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802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTNV



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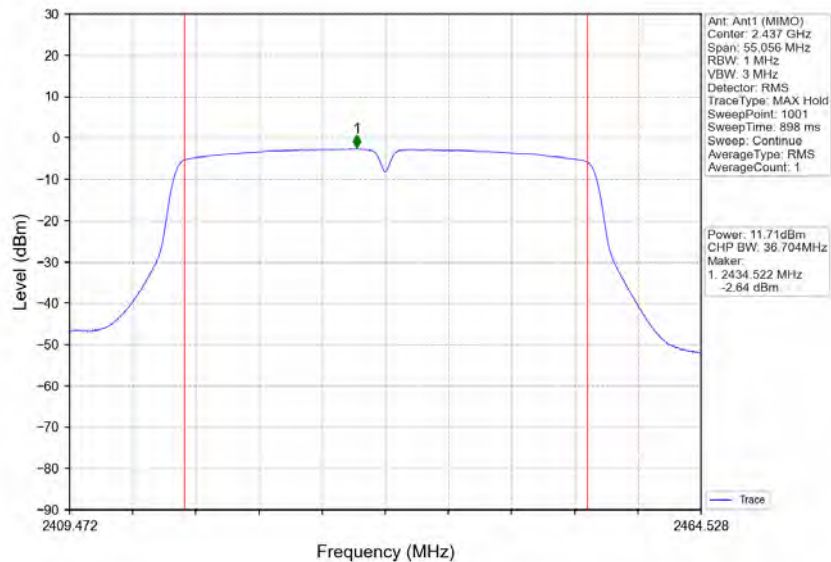
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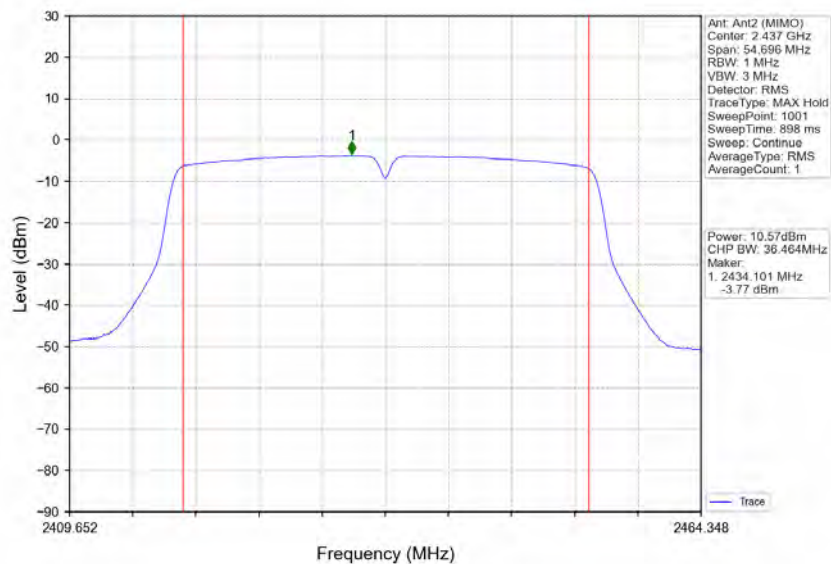
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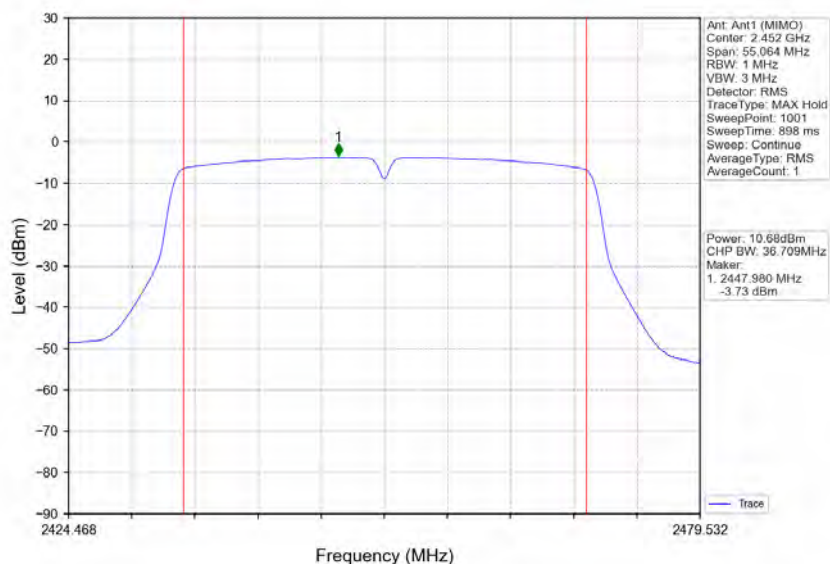
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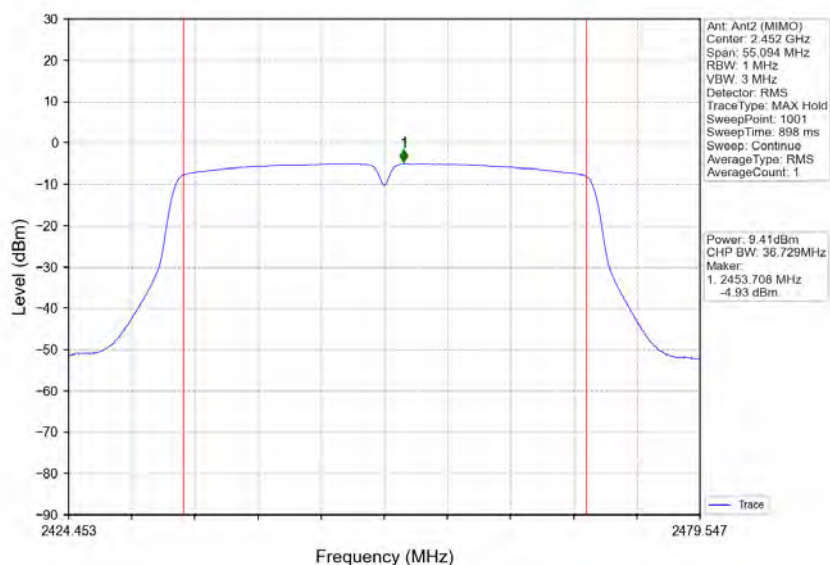
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802.11n(HT40) HCH_2452MHz_Ant1 (MIMO) NTN



802.11n(HT40) HCH_2452MHz_Ant2 (MIMO) NTN



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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	-10.02	-9.70	/	<=8	Pass
		2437	-10.38	-11.01	/	<=8	Pass
		2462	-10.65	-11.58	/	<=8	Pass
802.11g	SISO	2412	-12.70	-14.80	/	<=8	Pass
		2437	-13.80	-15.56	/	<=8	Pass
		2462	-14.24	-15.26	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-13.14	-15.26	-11.99	<=8	Pass
		2437	-14.46	-14.79	-13.01	<=8	Pass
		2462	-14.61	-15.91	-13.88	<=8	Pass
802.11n (HT40)	MIMO	2422	-17.06	-17.73	-15.42	<=8	Pass
		2437	-16.77	-17.54	-15.32	<=8	Pass
		2452	-18.09	-19.90	-16.53	<=8	Pass

Note1: Antenna Gain: Ant1: 3.82dBi; Ant2: -5.95dBi;
Note2: Directional Gain: 3.25dBi



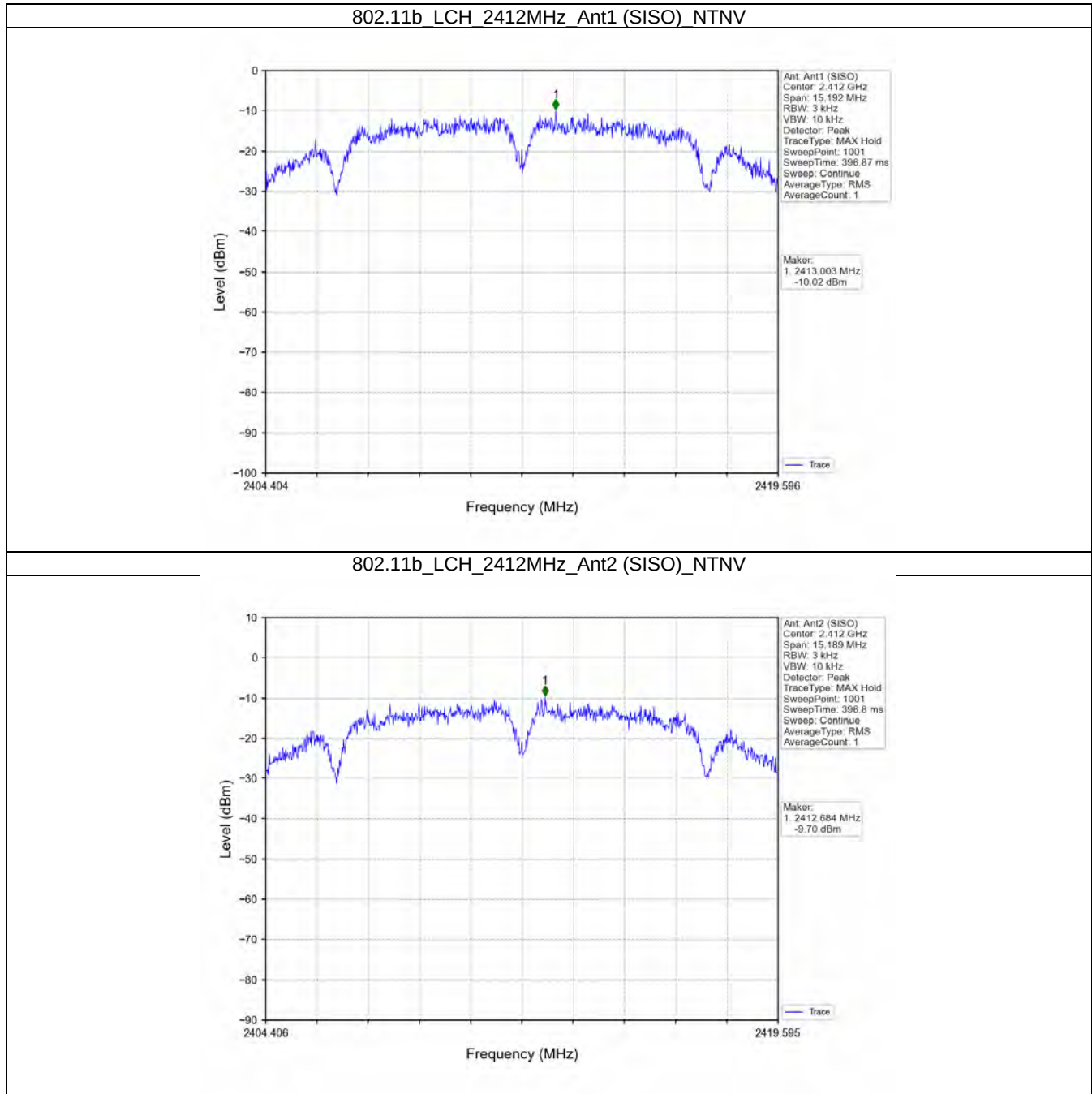
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4.1.2 Test Graph



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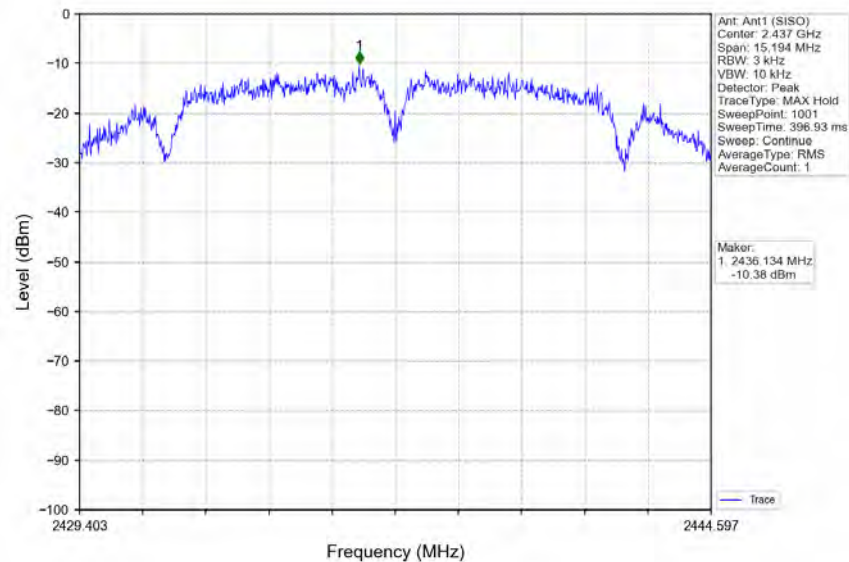
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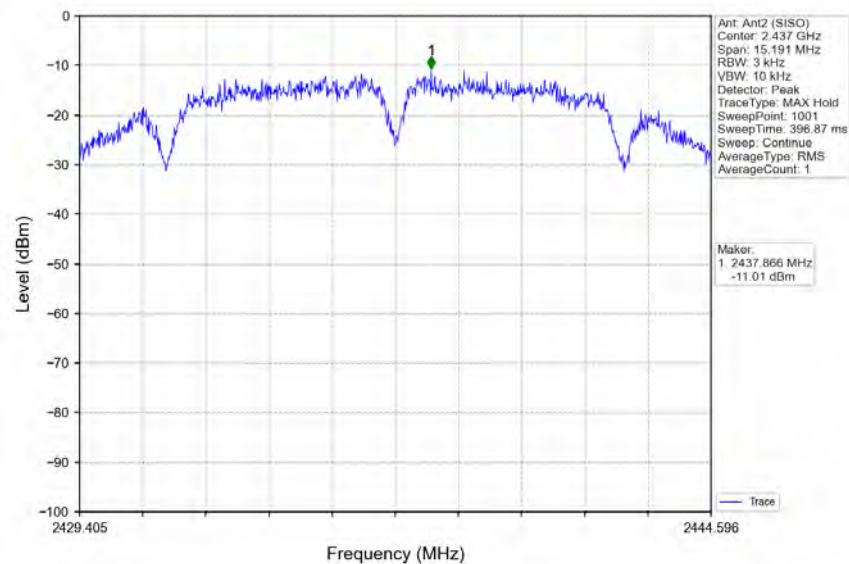
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802.11b MCH 2437MHz Ant1 (SISO) NTNV



802.11b MCH 2437MHz Ant2 (SISO) NTNV



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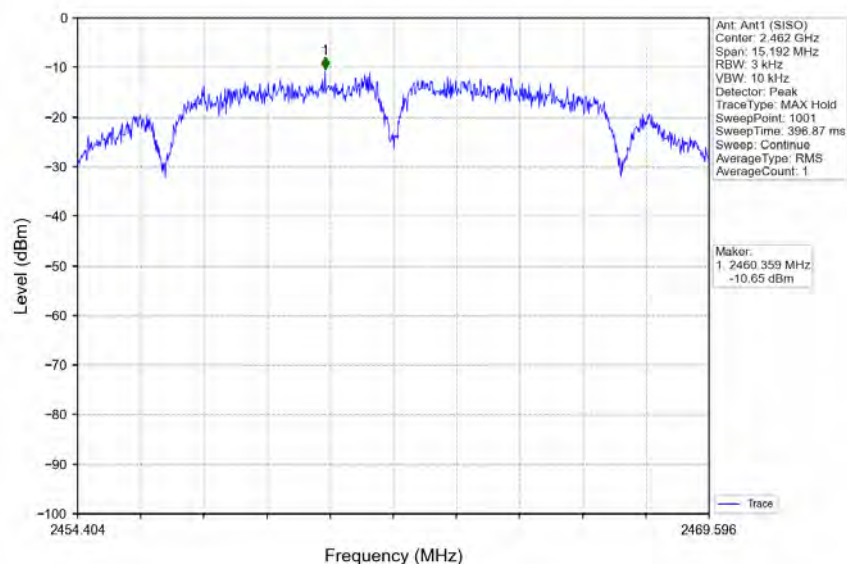
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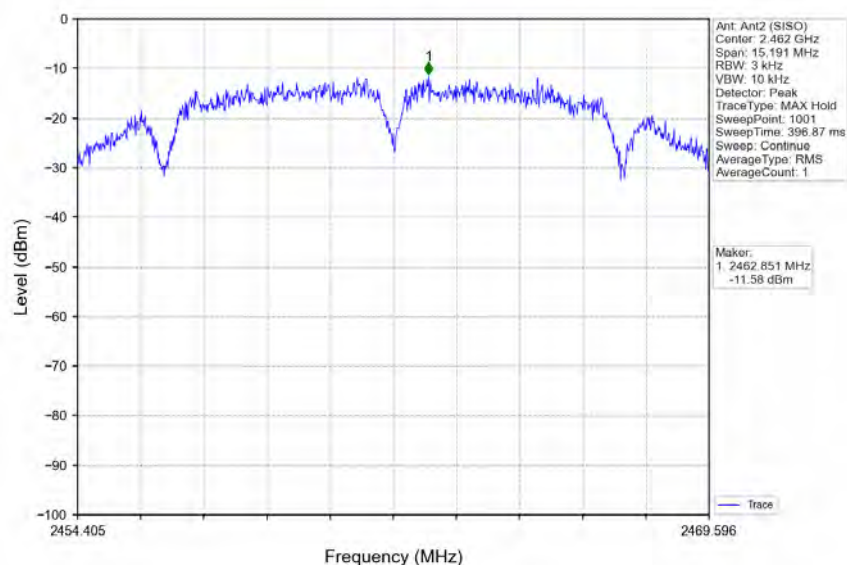
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11b HCH 2462MHz Ant2 (SISO) NTNV



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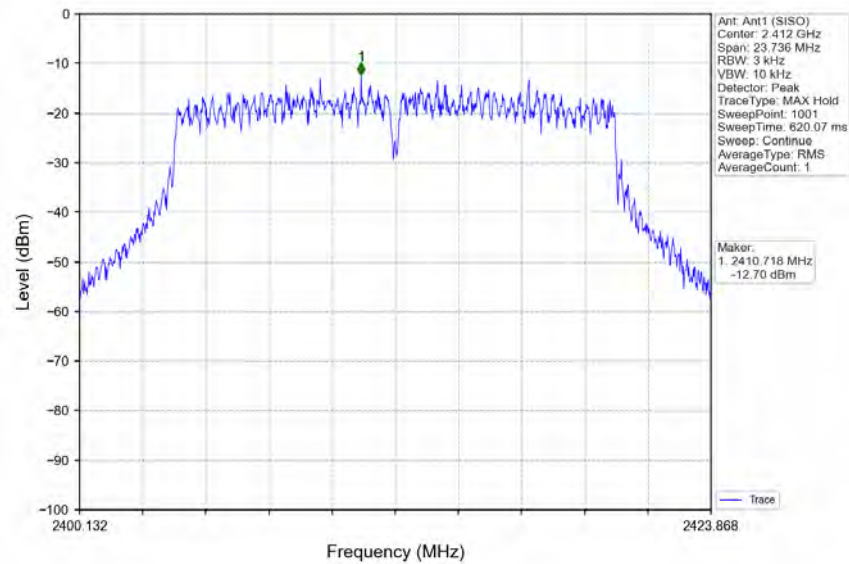
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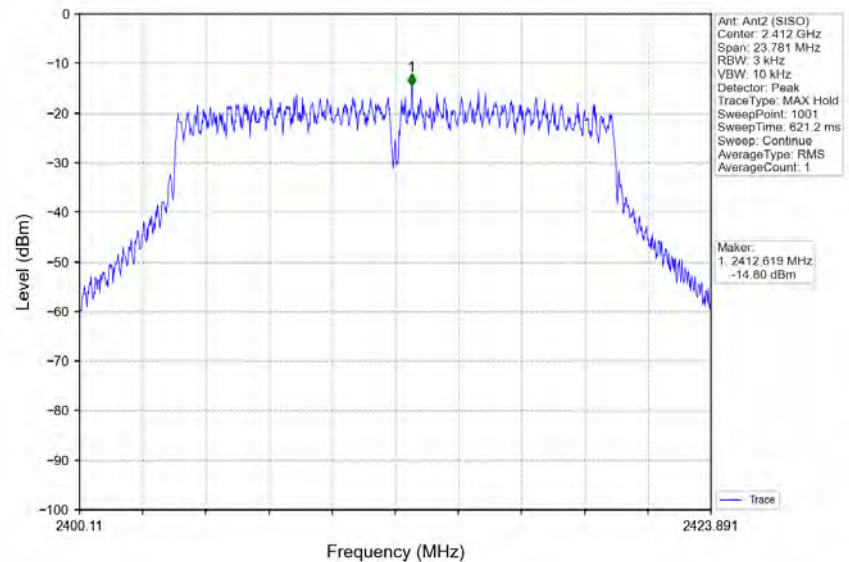
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



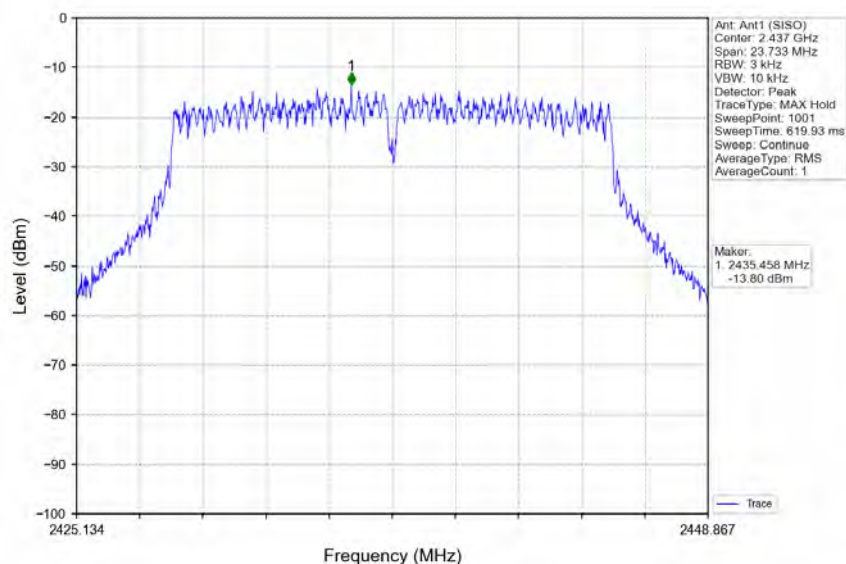
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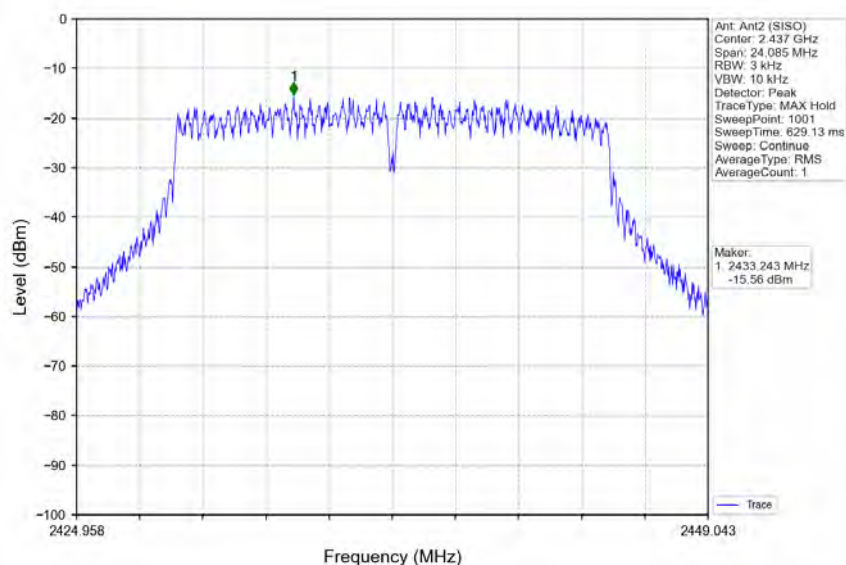
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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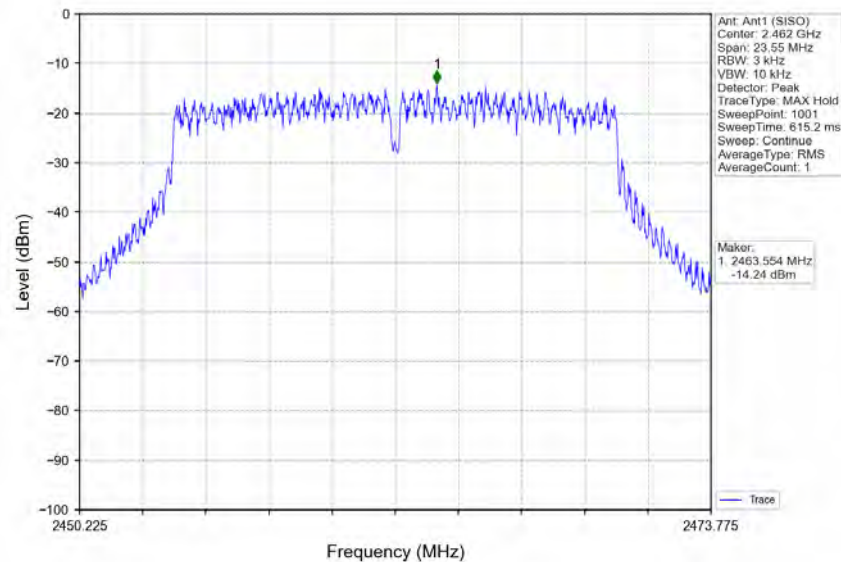
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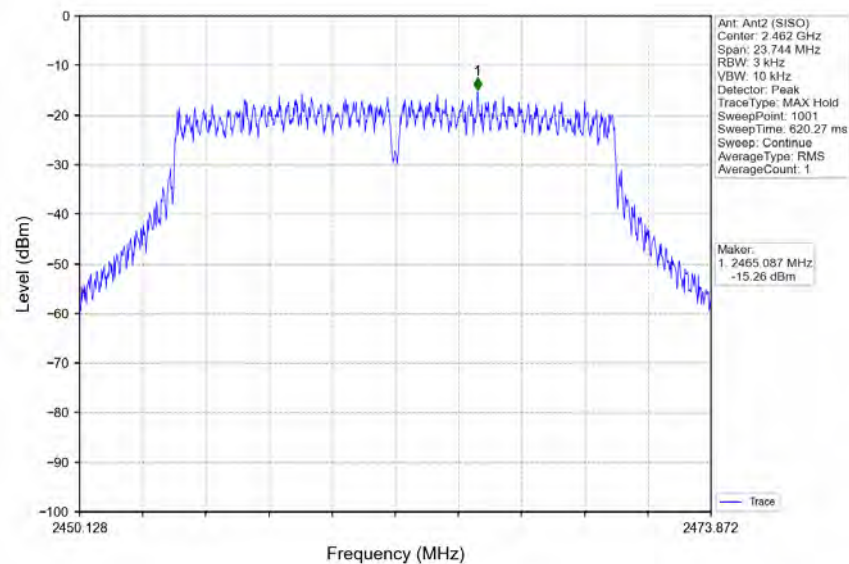
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802.11g HCH 2462MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant2 (SISO) NTN



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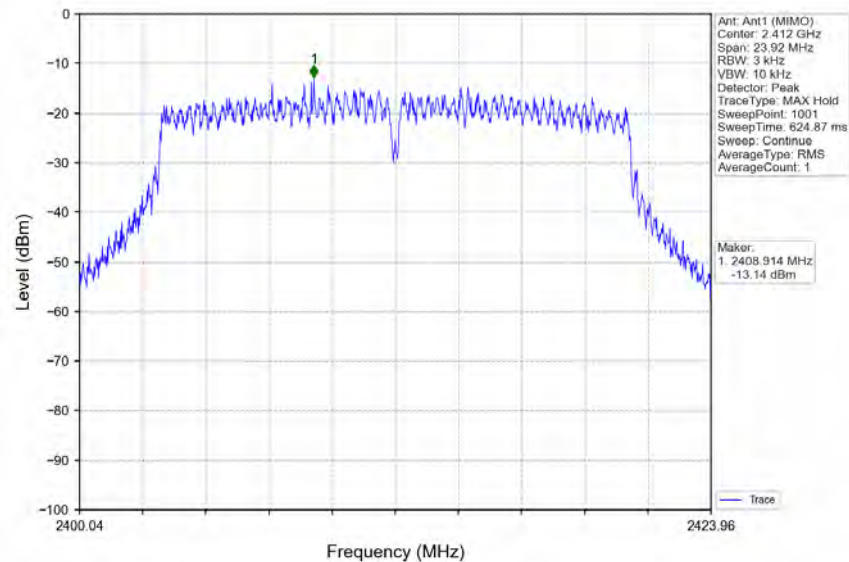
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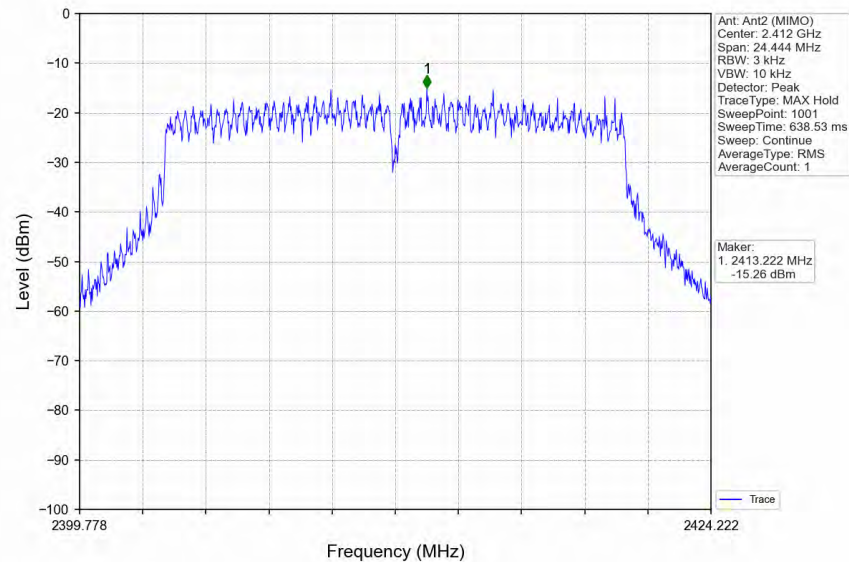
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTNV



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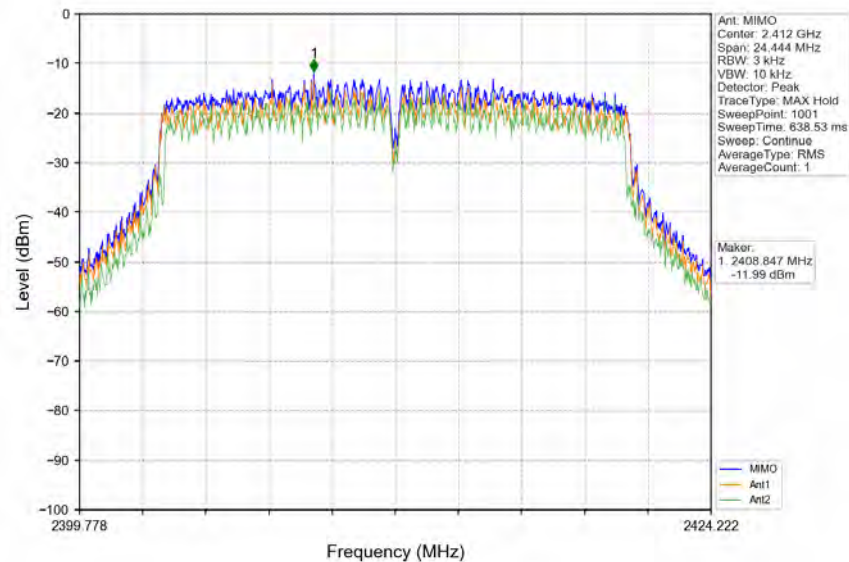
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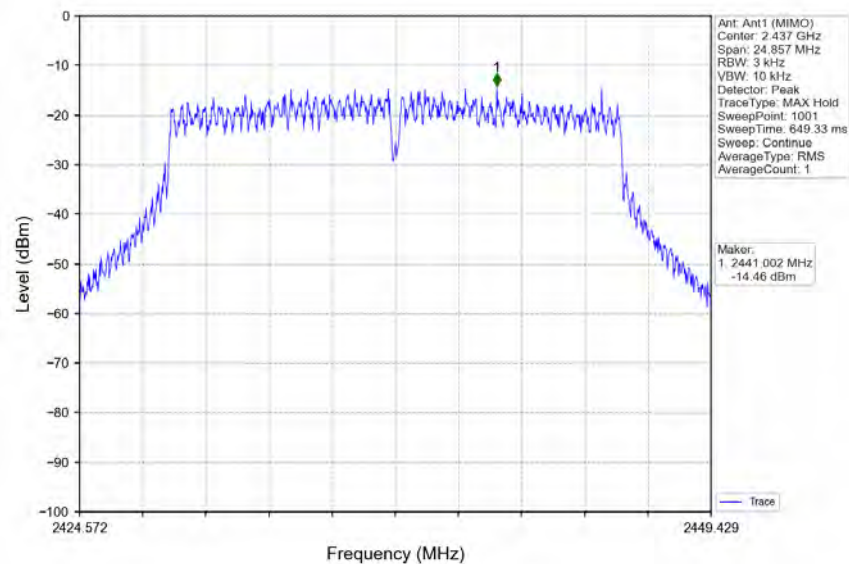
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802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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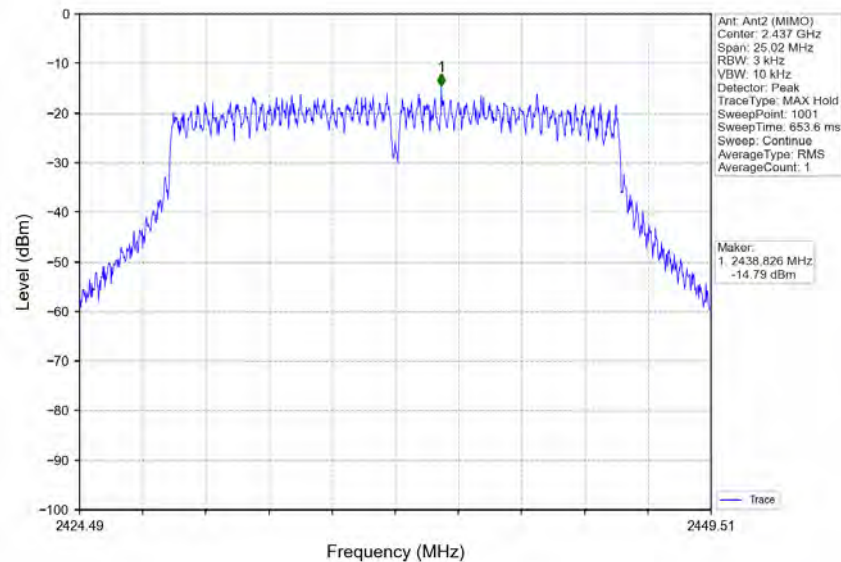
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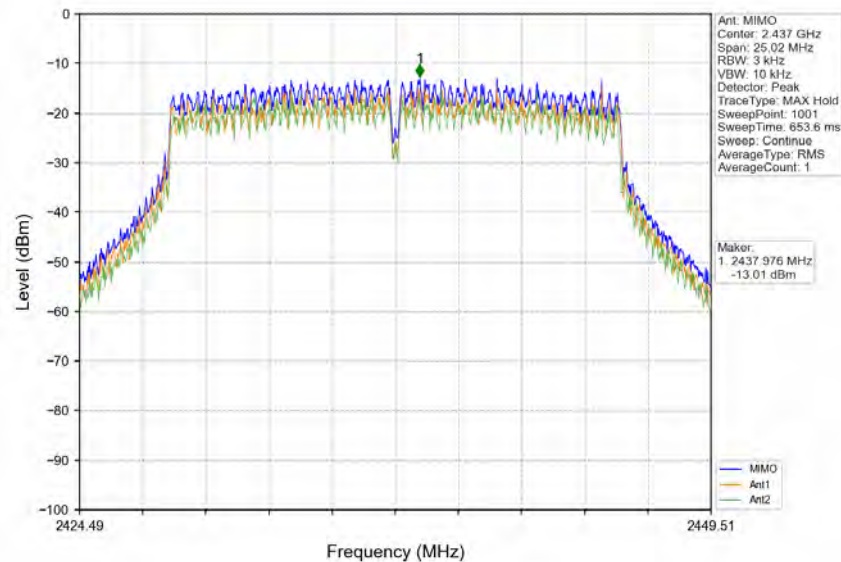
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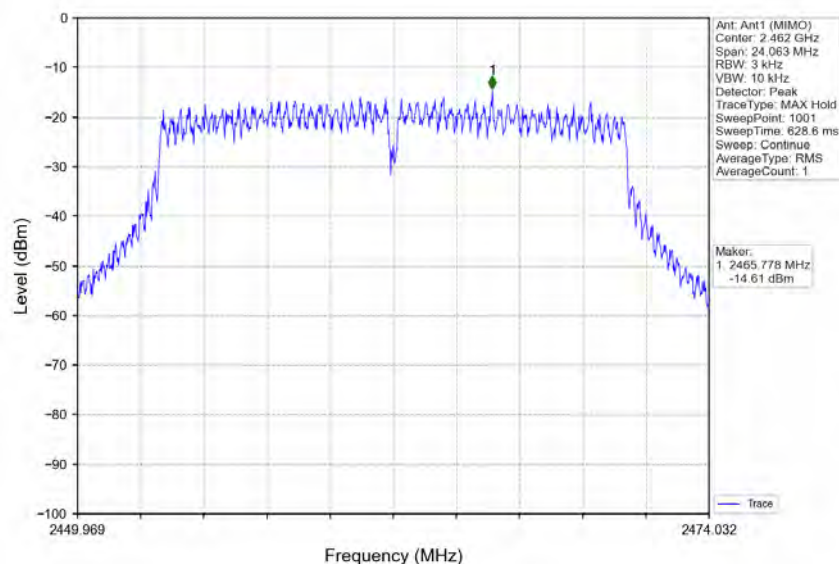
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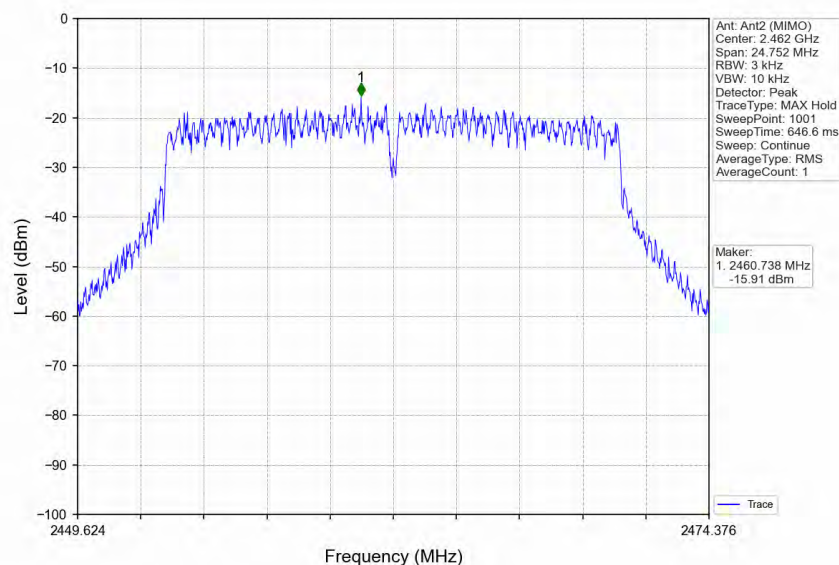
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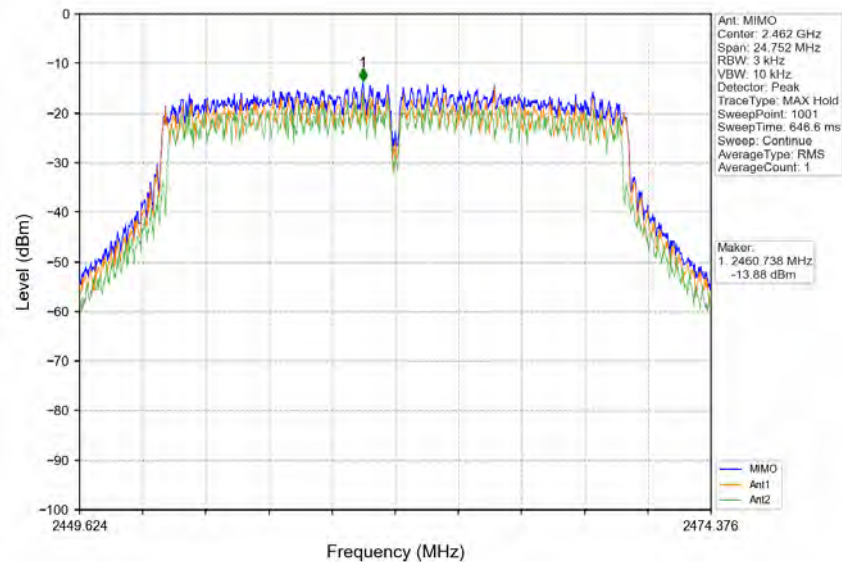
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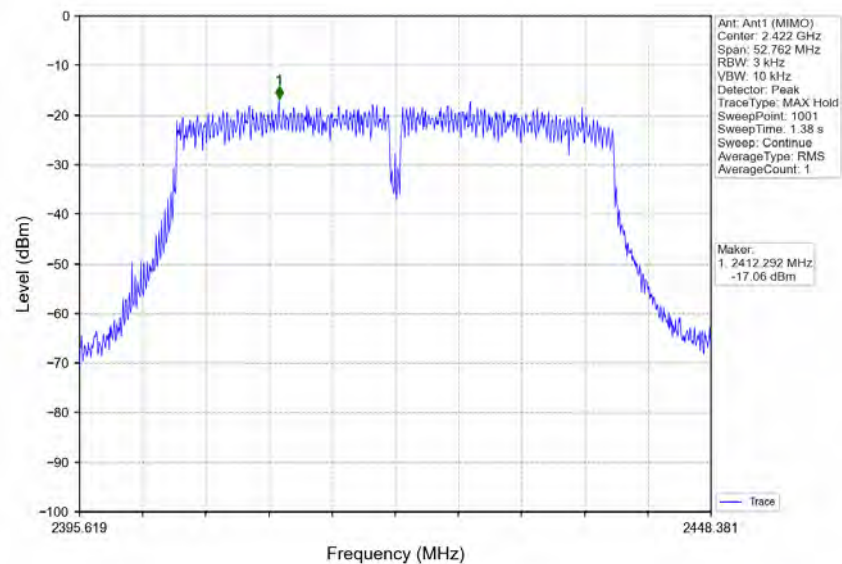
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802.11n(HT40) LCH 2422MHz_Ant1 (MIMO)_NTNV



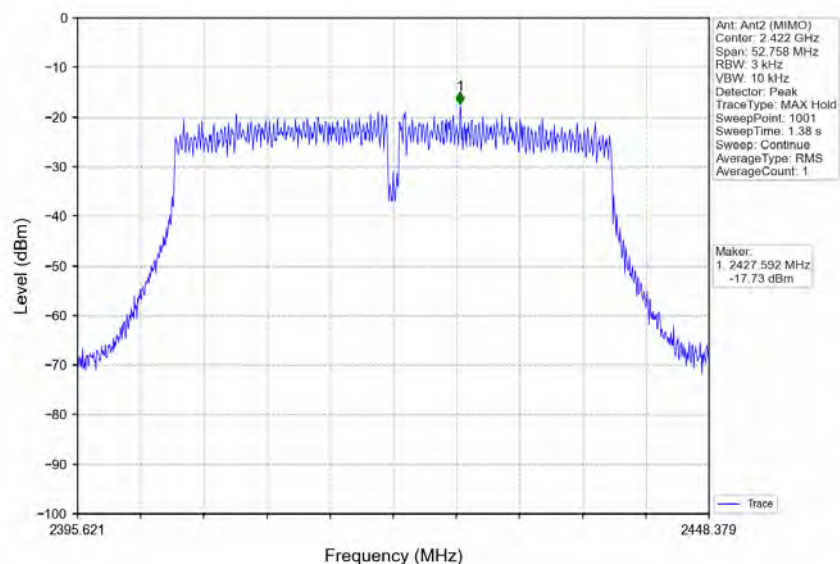
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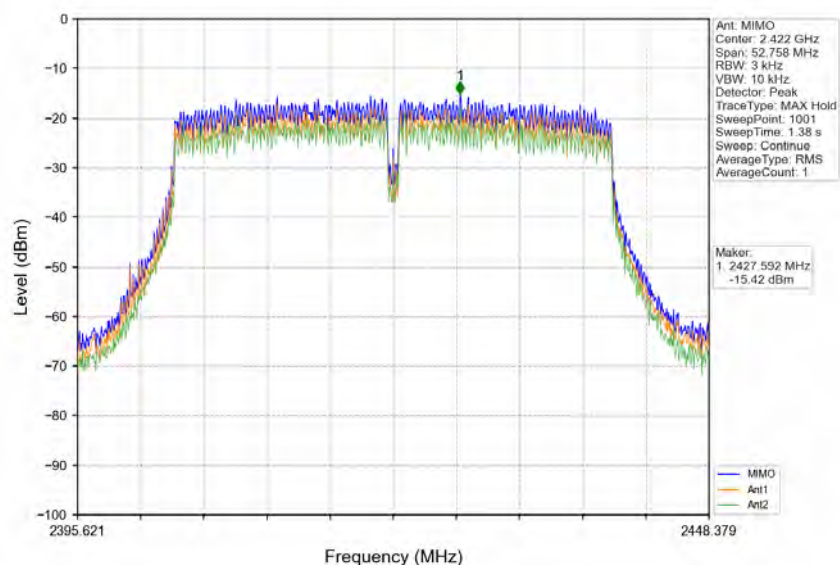
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802.11n(HT40) LCH 2422MHz MIMO NTNV



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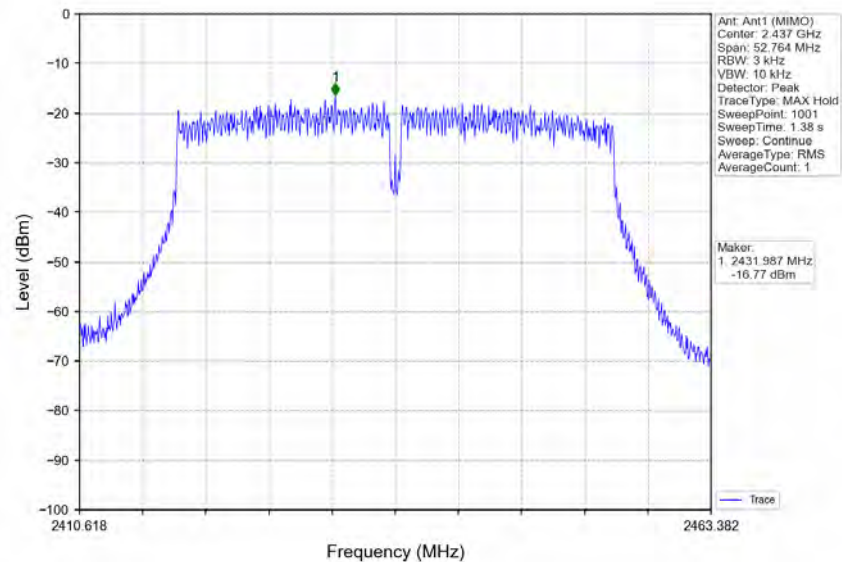
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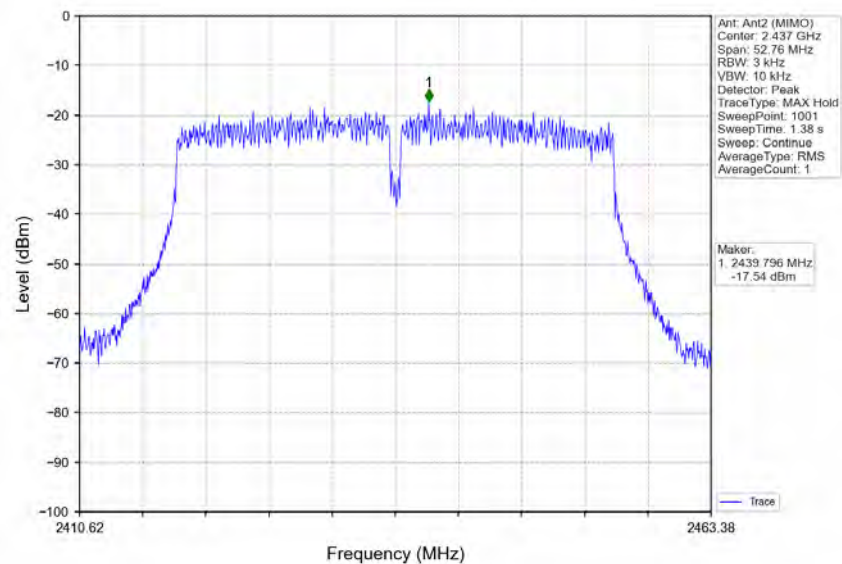
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802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTN



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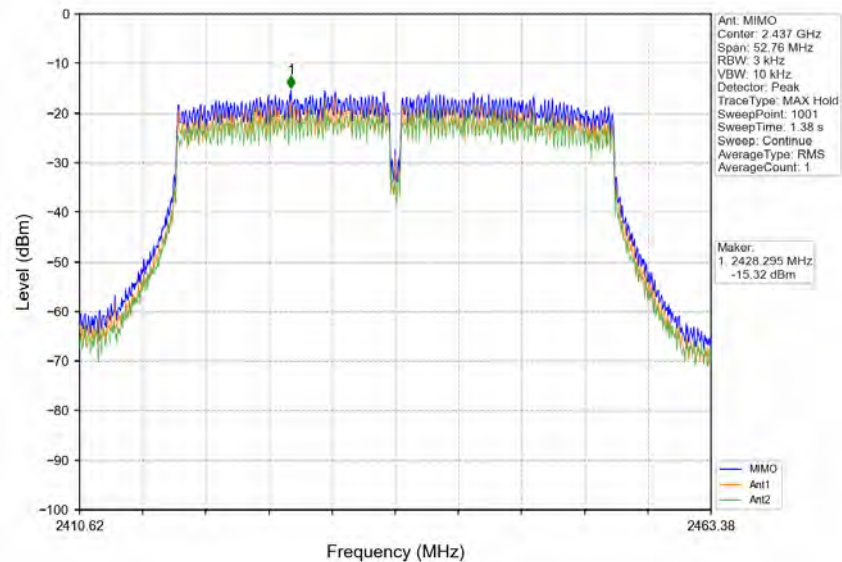
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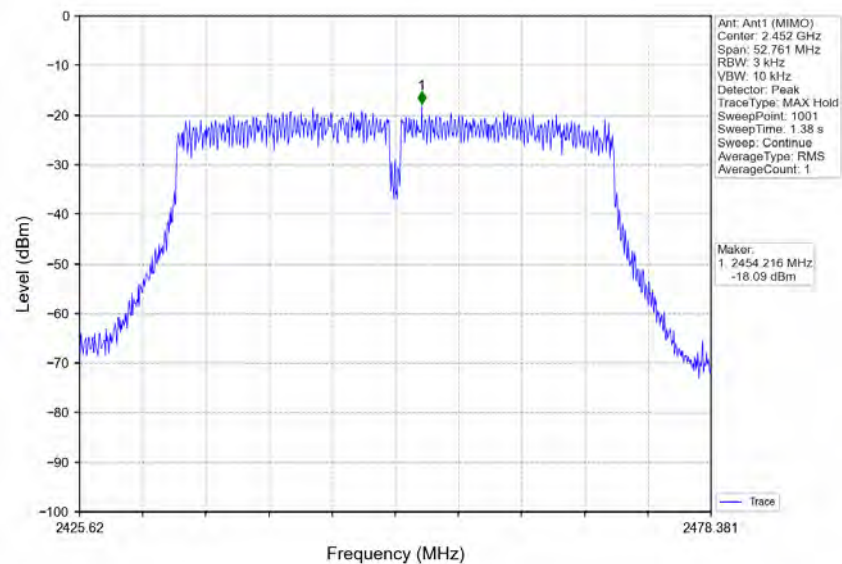
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802.11n(HT40) MCH 2437MHz MIMO NTNV



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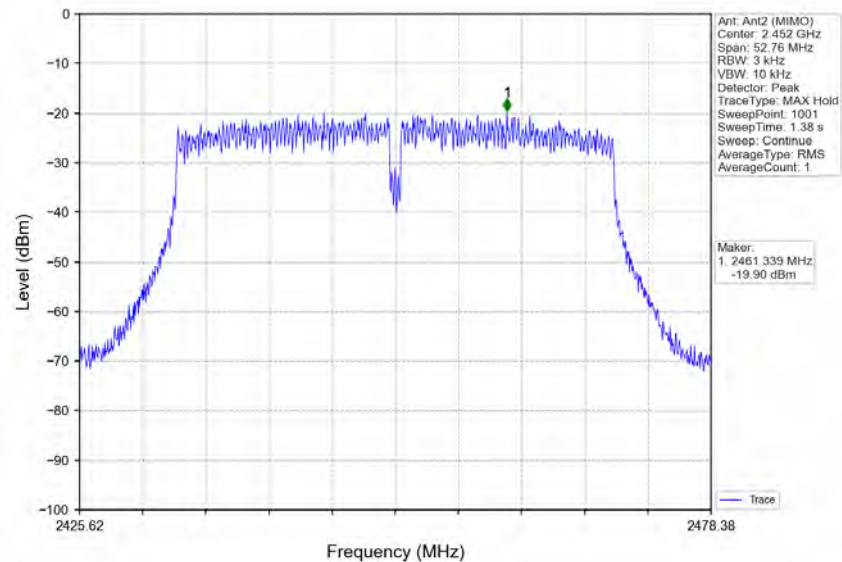
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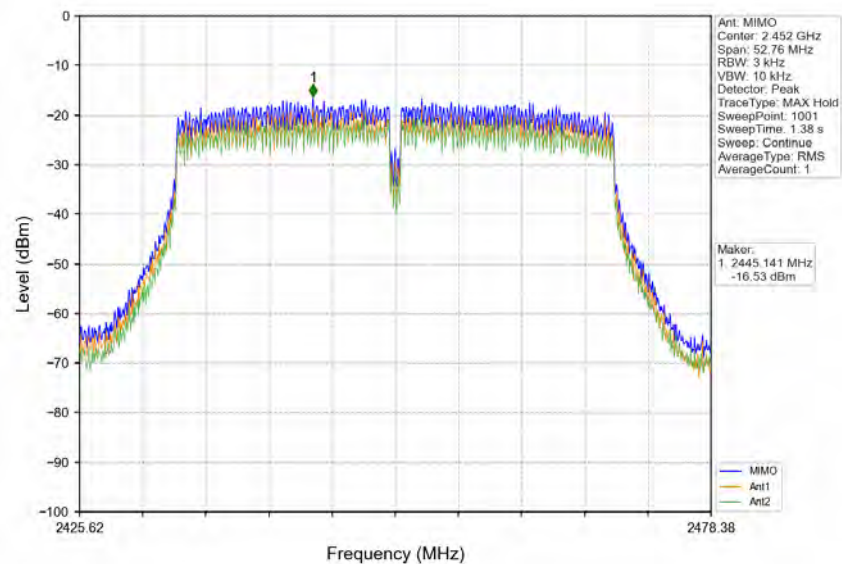
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802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz 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	4.12
			2	3.95
		2437	1	3.47
			2	3.30
		2462	1	3.43
			2	3.02
802.11g	SISO	2412	1	0.78
			2	-0.91
		2437	1	0.46
			2	-0.72
		2462	1	0.23
			2	-1.03
802.11n (HT20)	MIMO	2412	1	0.25
			2	-1.26
		2437	1	0.39
			2	-0.76
		2462	1	-0.70
			2	-1.76
802.11n (HT40)	MIMO	2422	1	-2.05
			2	-3.87
		2437	1	-2.18
			2	-3.34
		2452	1	-3.19
			2	-4.49

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.

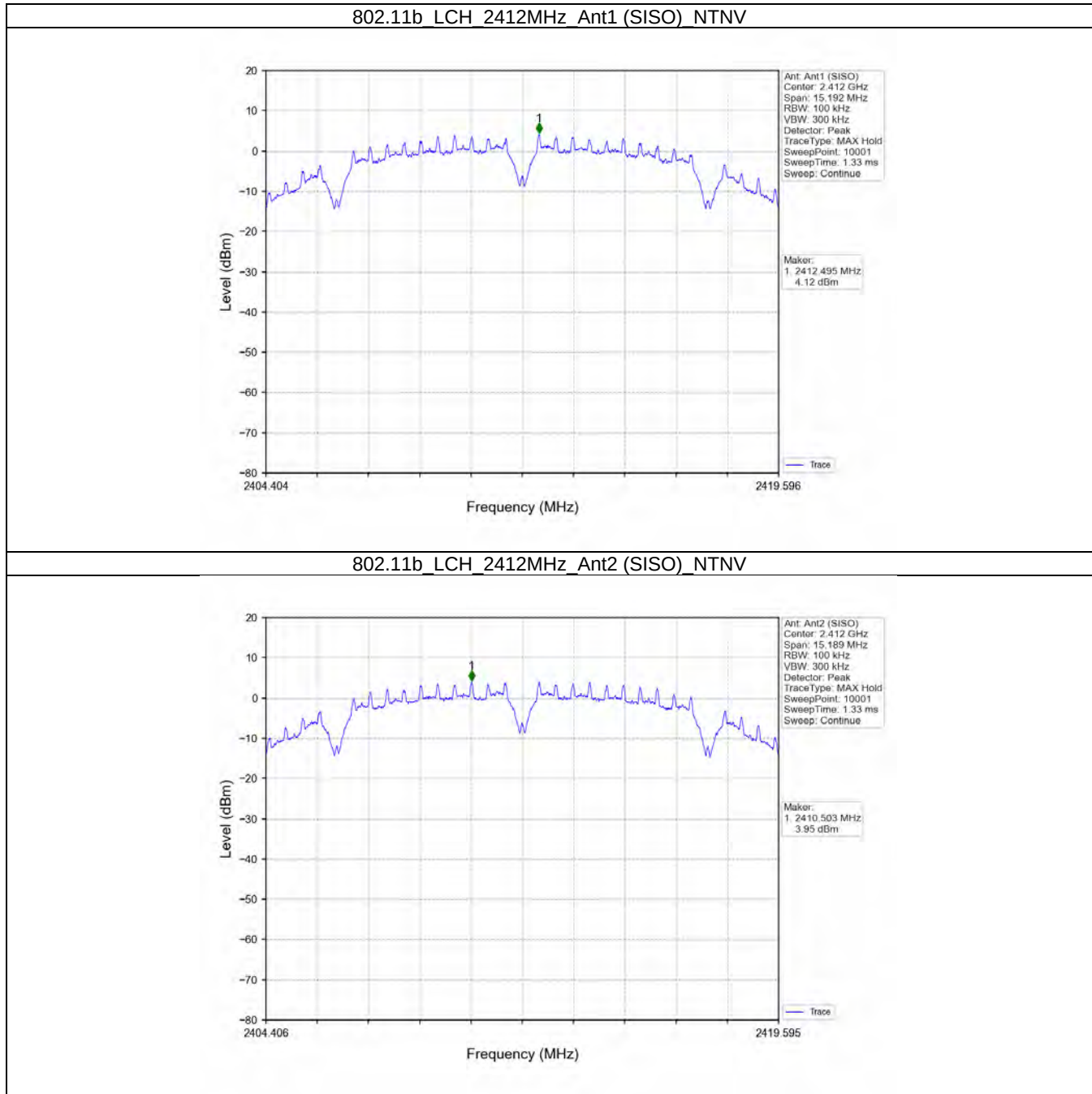


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5.1.2 Test Graph



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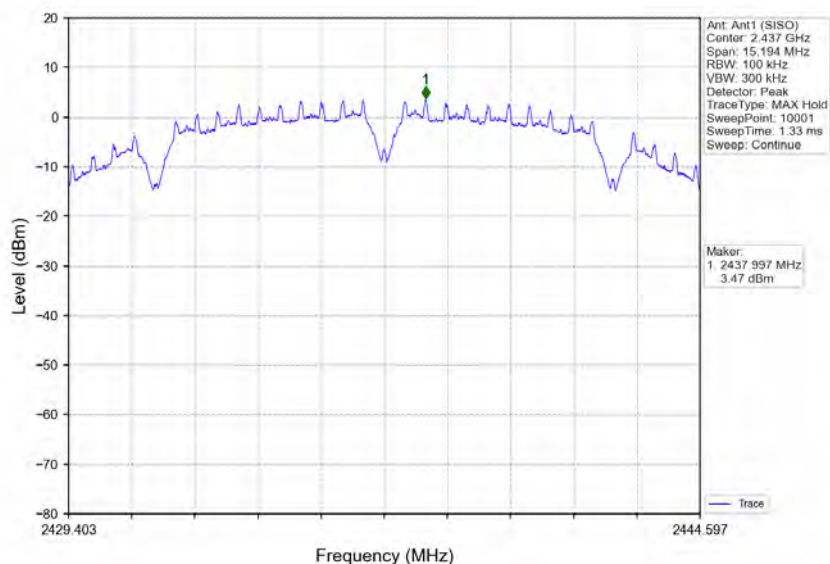
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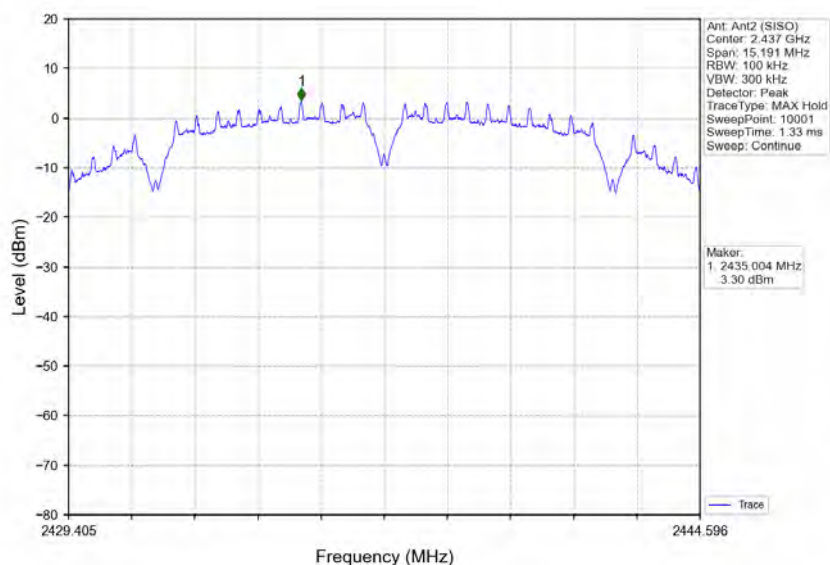
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802.11b MCH 2437MHz Ant1 (SISO) NTNV



802.11b MCH 2437MHz Ant2 (SISO) NTNV



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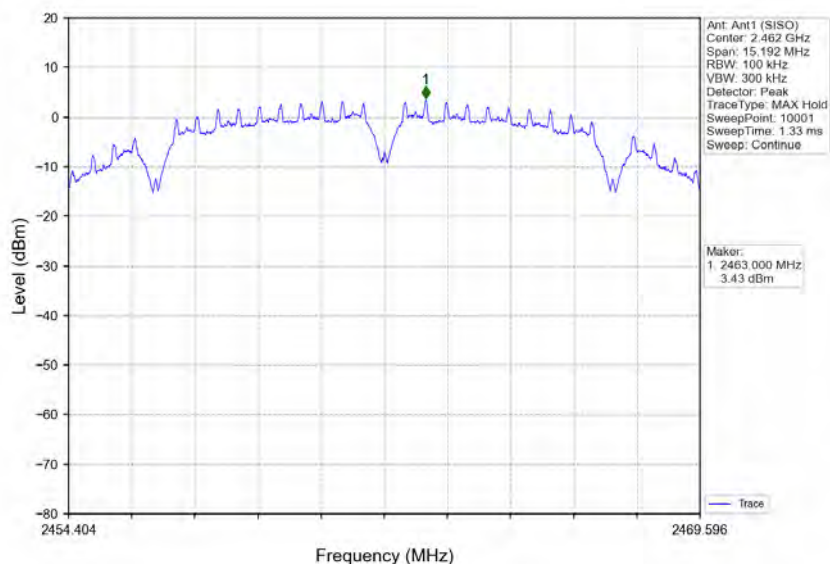
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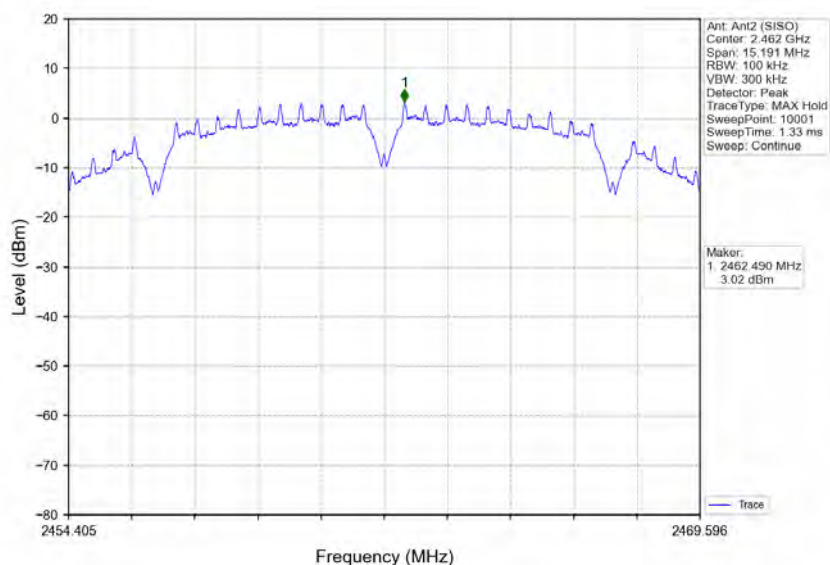
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802.11b HCH 2462MHz_Ant1 (SISO) NTN



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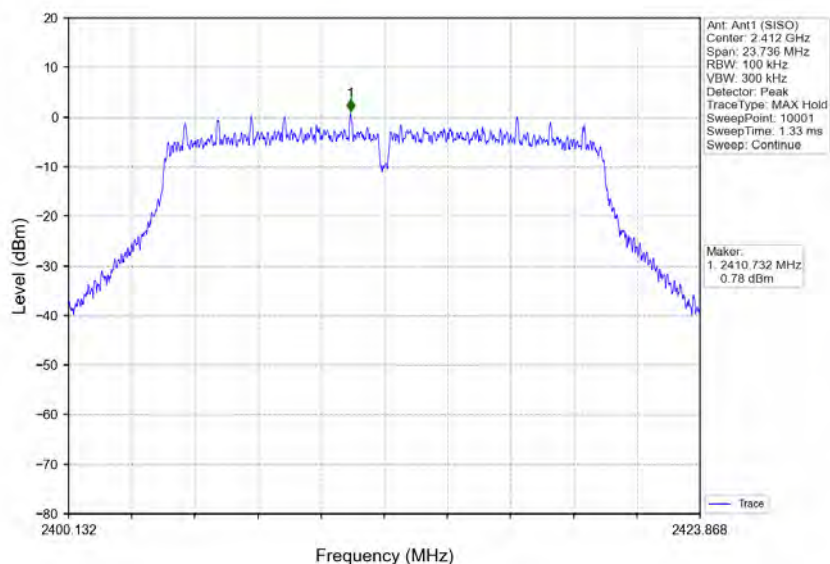
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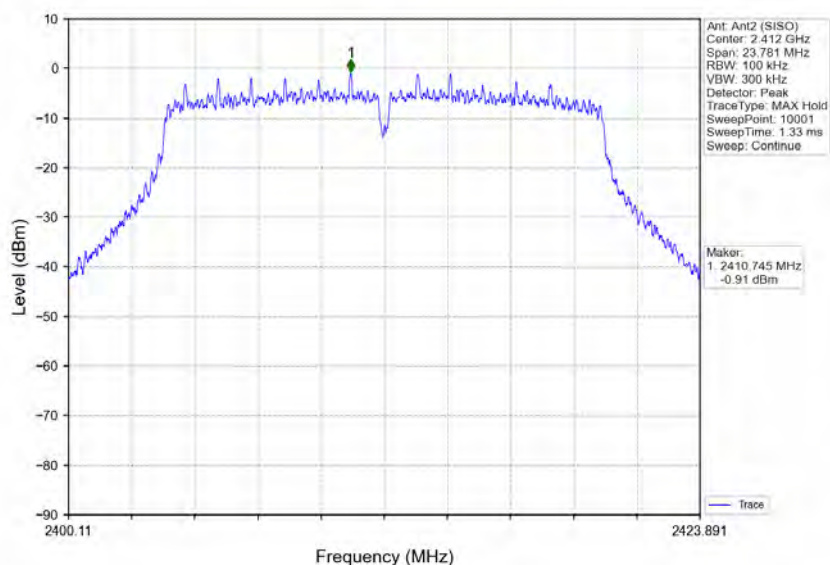
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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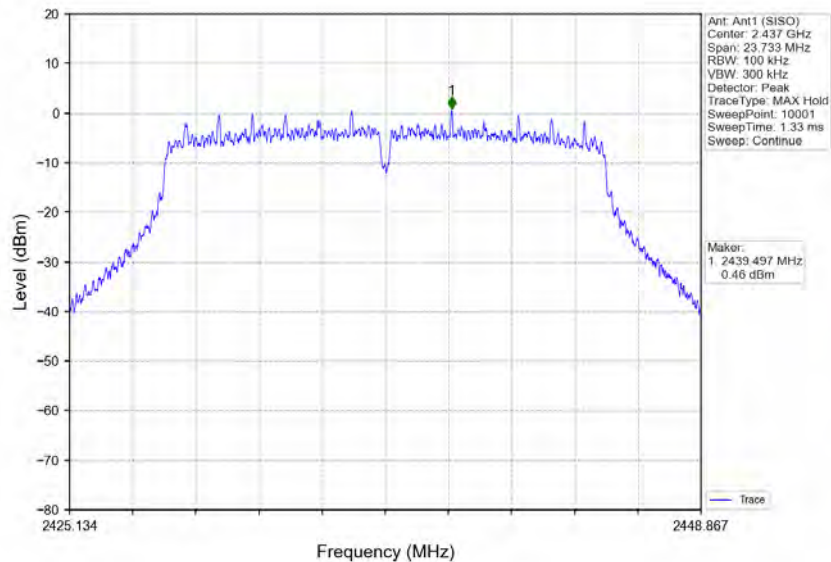
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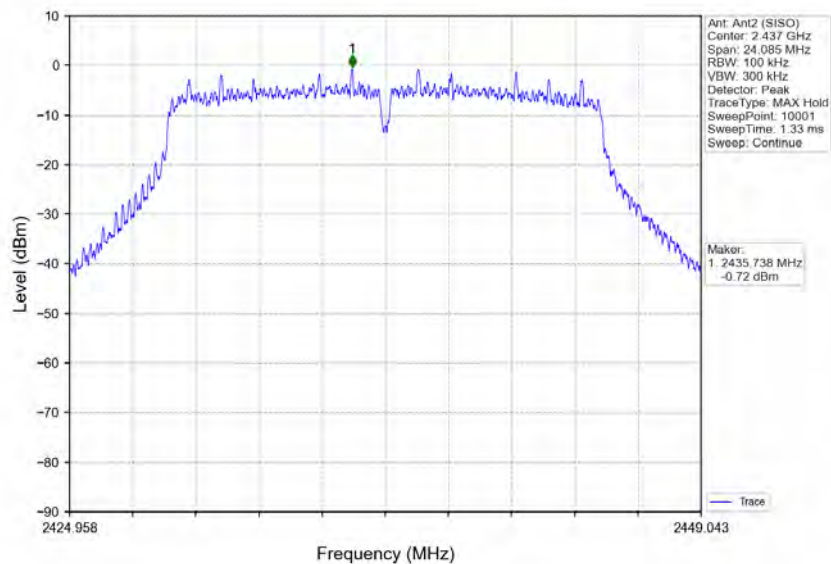
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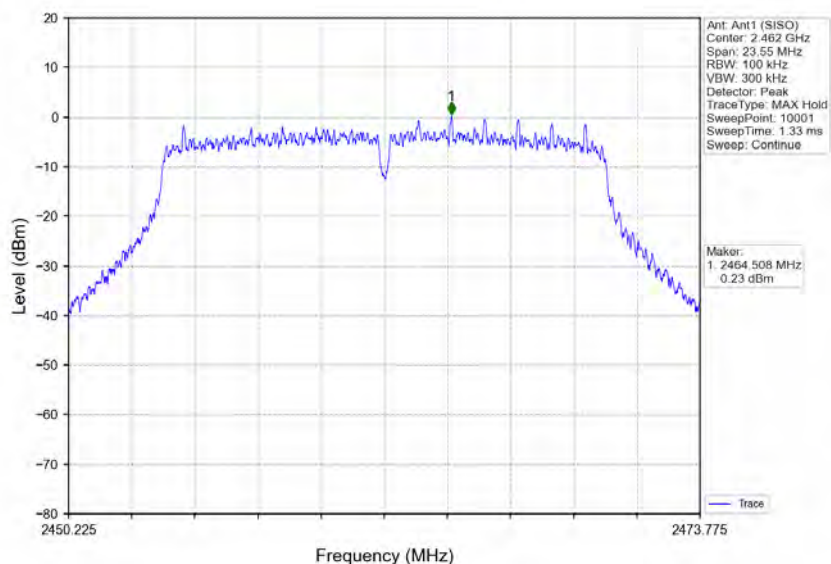
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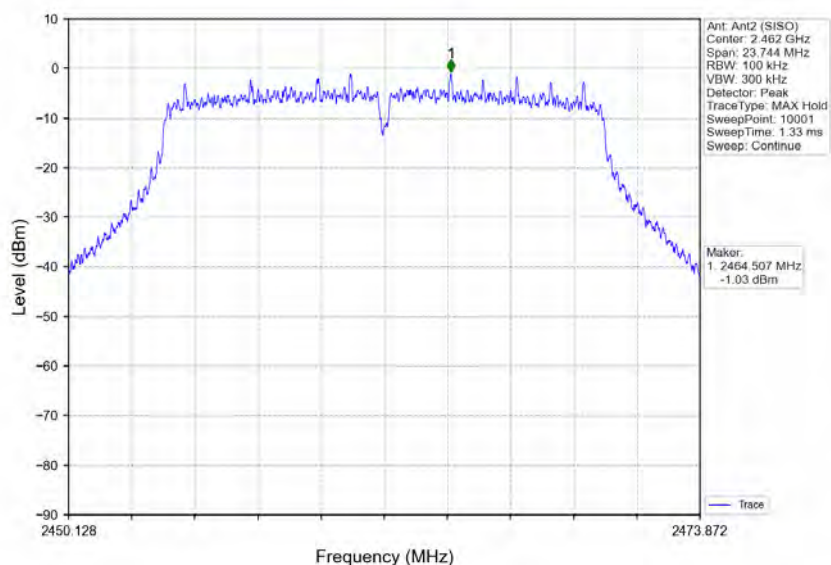
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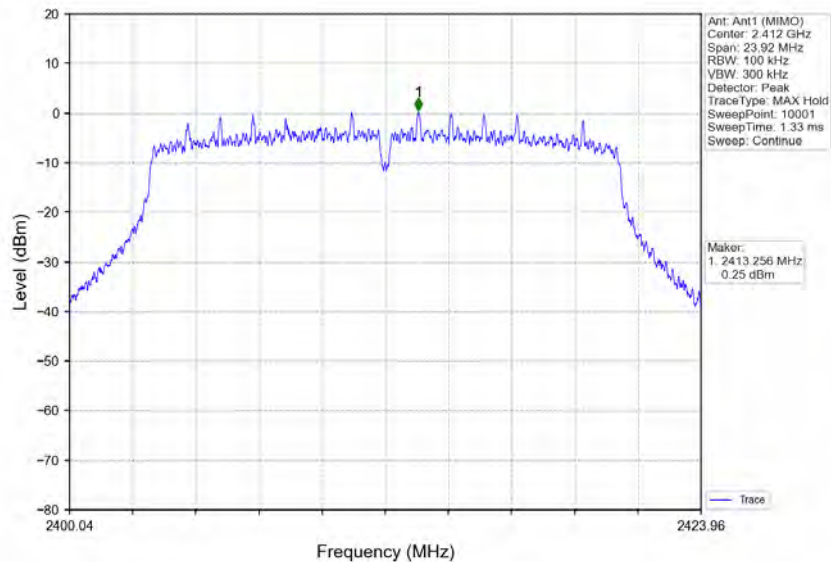
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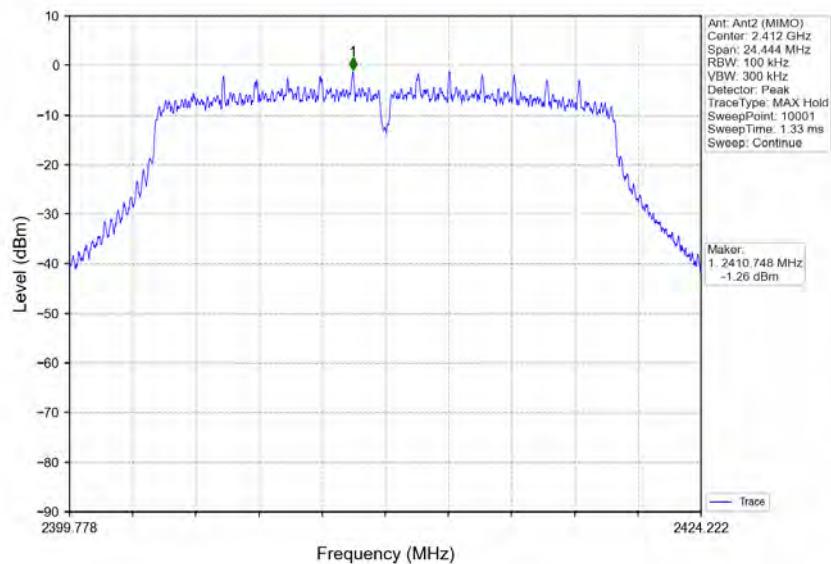
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



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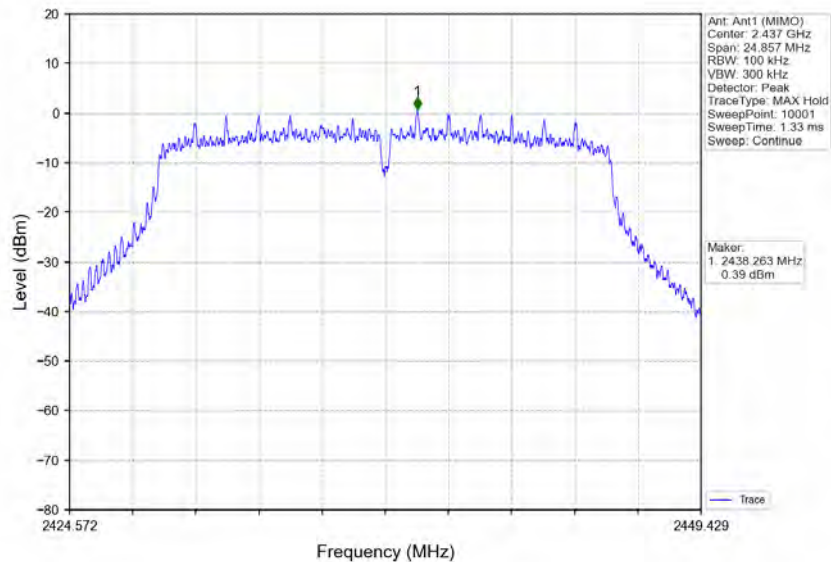
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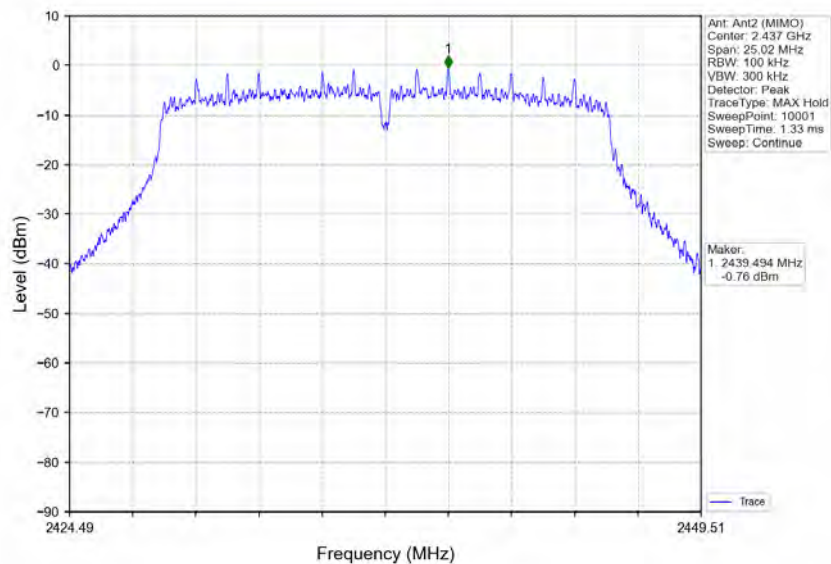
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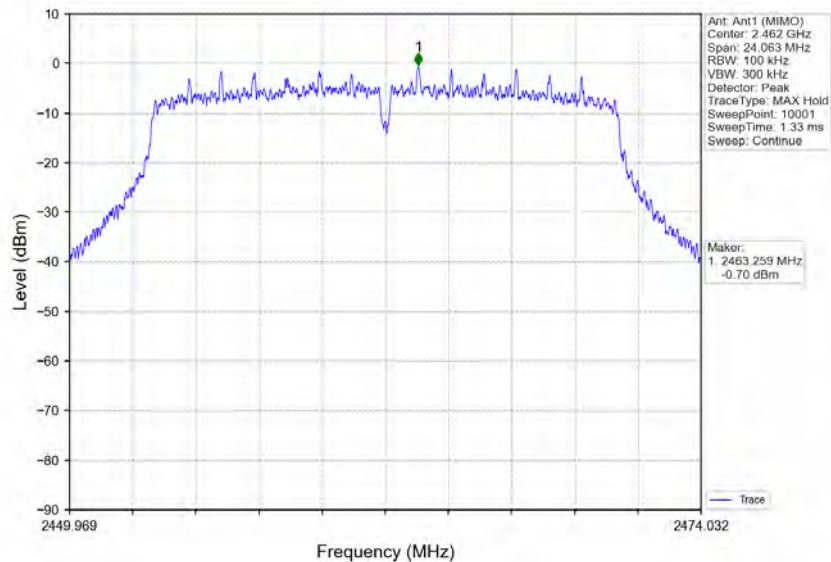
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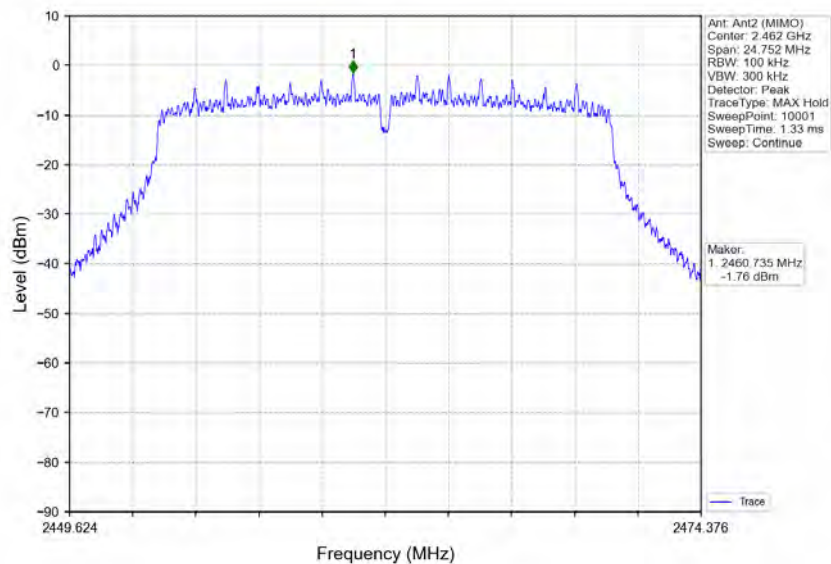
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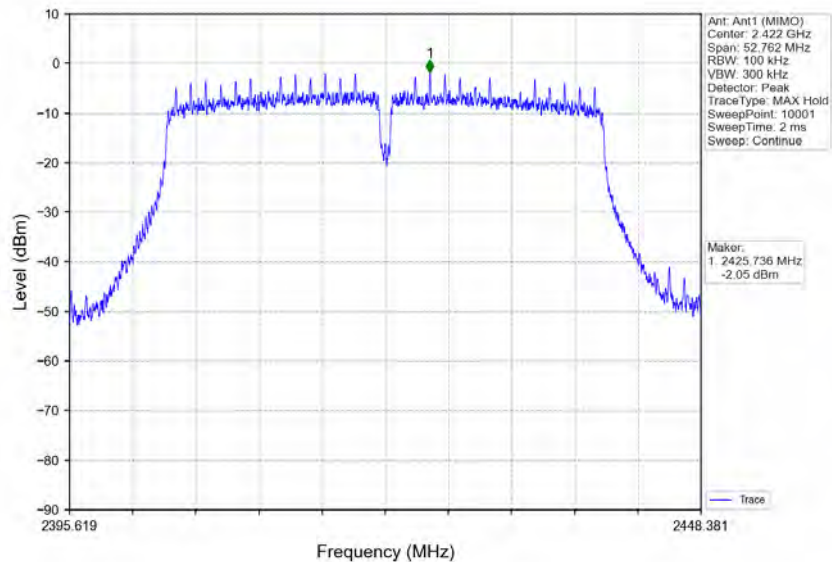
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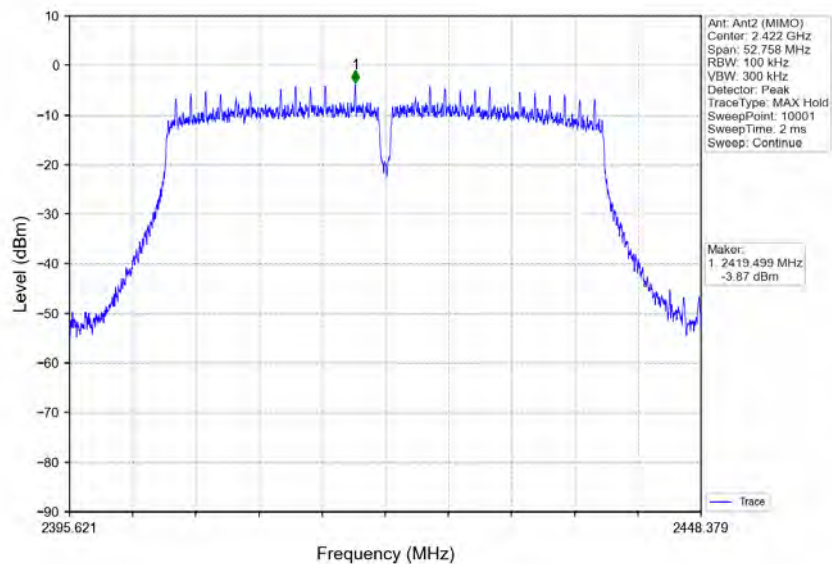
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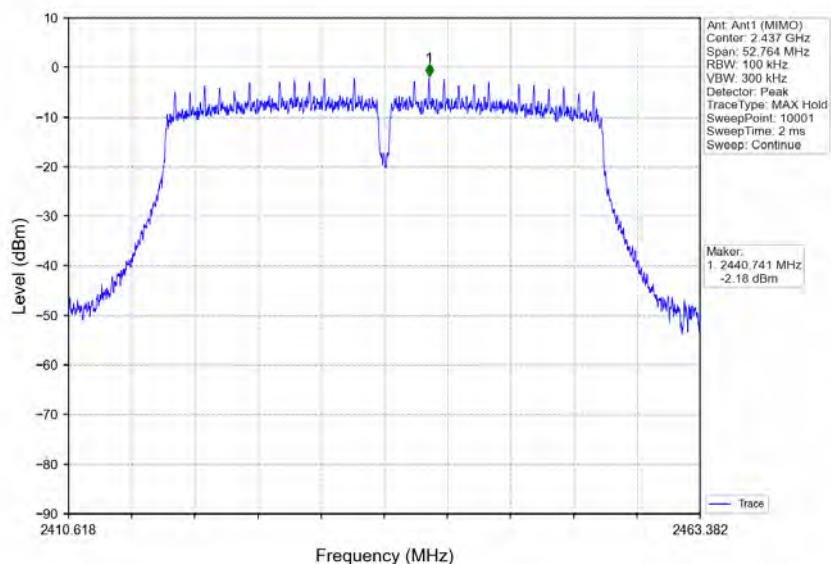
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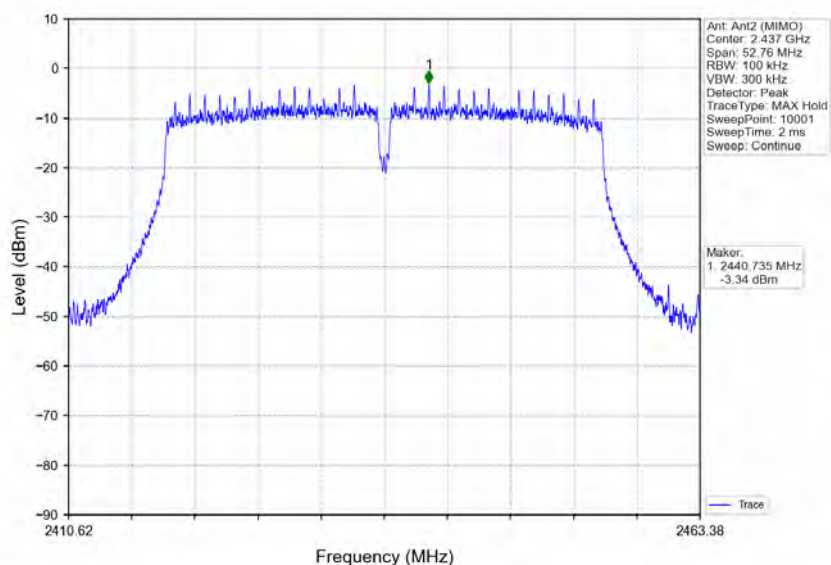
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTN



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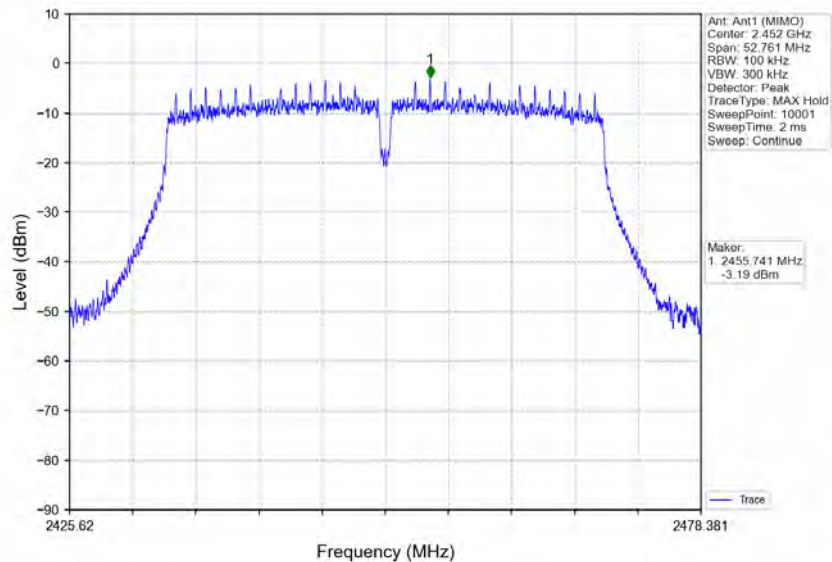
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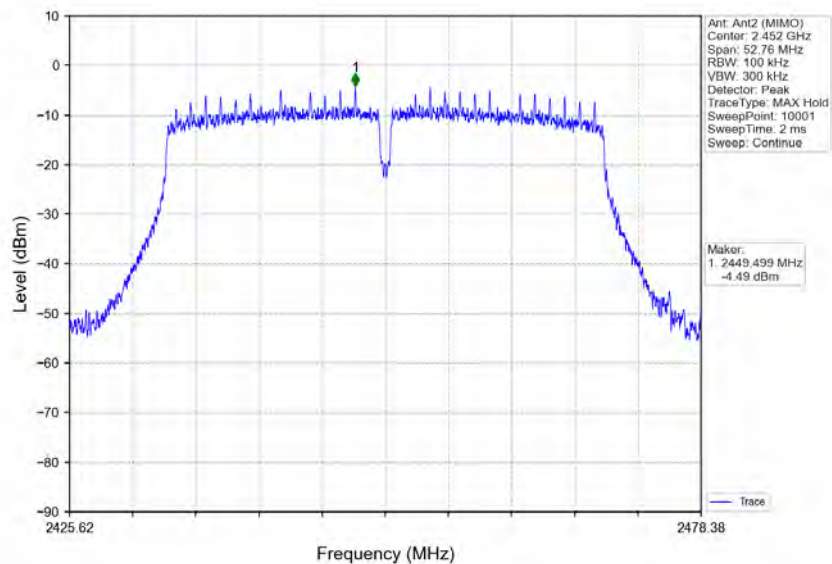
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802.11n(HT40) HCH_2452MHz_Ant1 (MIMO) NTN



802.11n(HT40) HCH_2452MHz_Ant2 (MIMO) NTN



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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	4.12	-25.88	Pass
			2	3.95	-26.05	Pass
		2437	1	4.12	-25.88	Pass
			2	3.95	-26.05	Pass
		2462	1	4.12	-25.88	Pass
			2	3.95	-26.05	Pass
802.11g	SISO	2412	1	0.78	-29.22	Pass
			2	-0.72	-30.72	Pass
		2437	1	0.78	-29.22	Pass
			2	-0.72	-30.72	Pass
		2462	1	0.78	-29.22	Pass
			2	-0.72	-30.72	Pass
802.11n (HT20)	MIMO	2412	1	0.39	-29.61	Pass
			2	-0.76	-30.76	Pass
		2437	1	0.39	-29.61	Pass
			2	-0.76	-30.76	Pass
		2462	1	0.39	-29.61	Pass
			2	-0.76	-30.76	Pass
802.11n (HT40)	MIMO	2422	1	-2.05	-32.05	Pass
			2	-3.34	-33.34	Pass
		2437	1	-2.05	-32.05	Pass
			2	-3.34	-33.34	Pass
		2452	1	-2.05	-32.05	Pass
			2	-3.34	-33.34	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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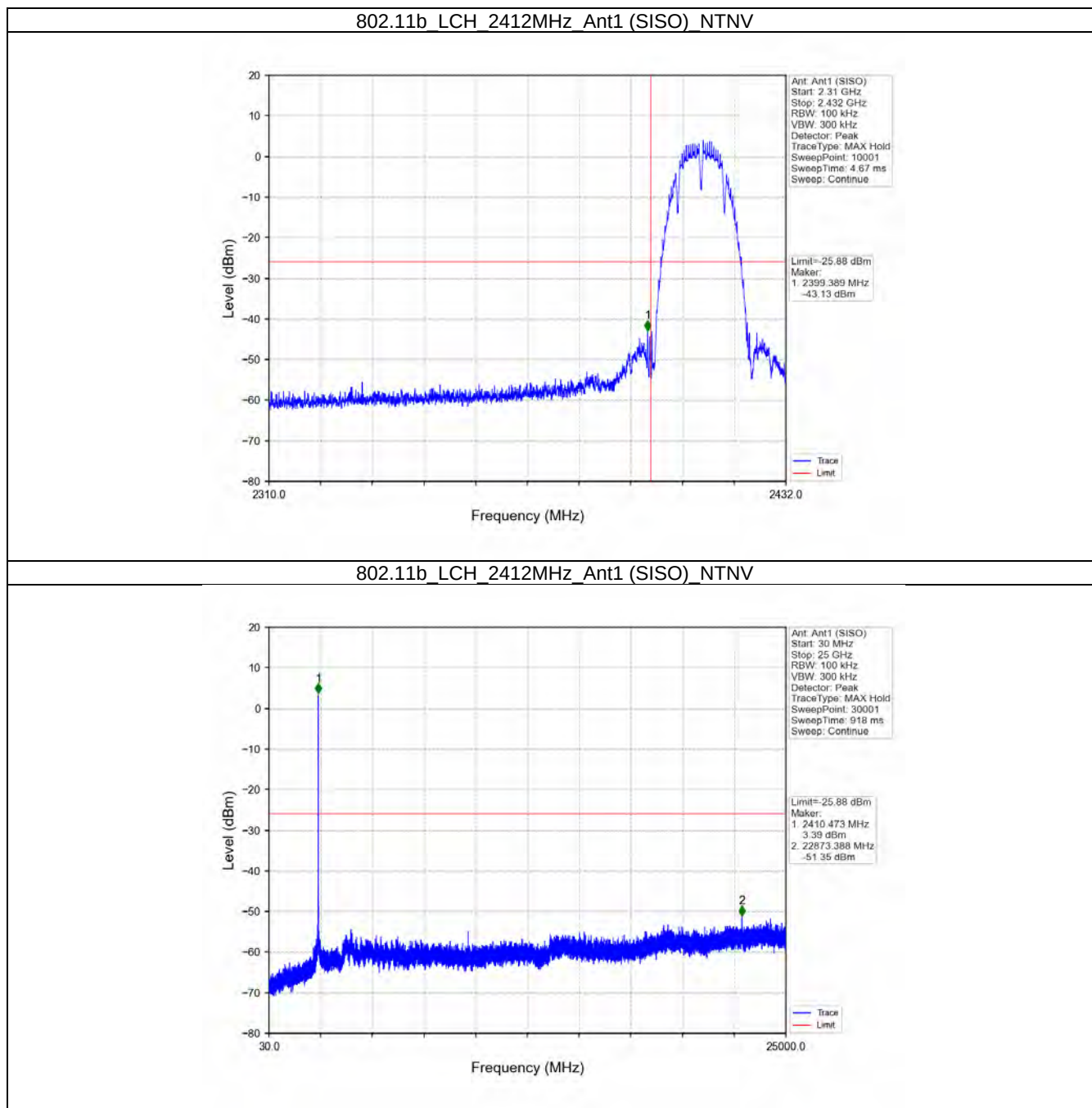
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5.2.2 Test Graph



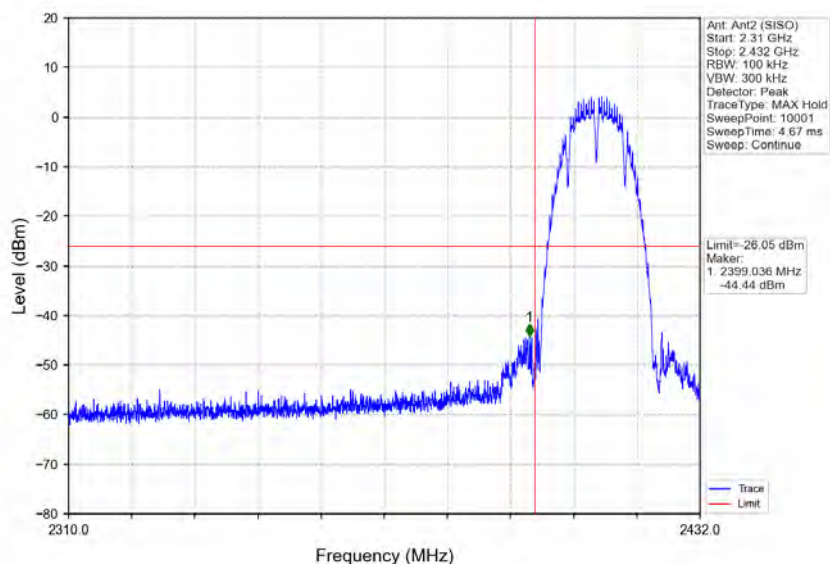
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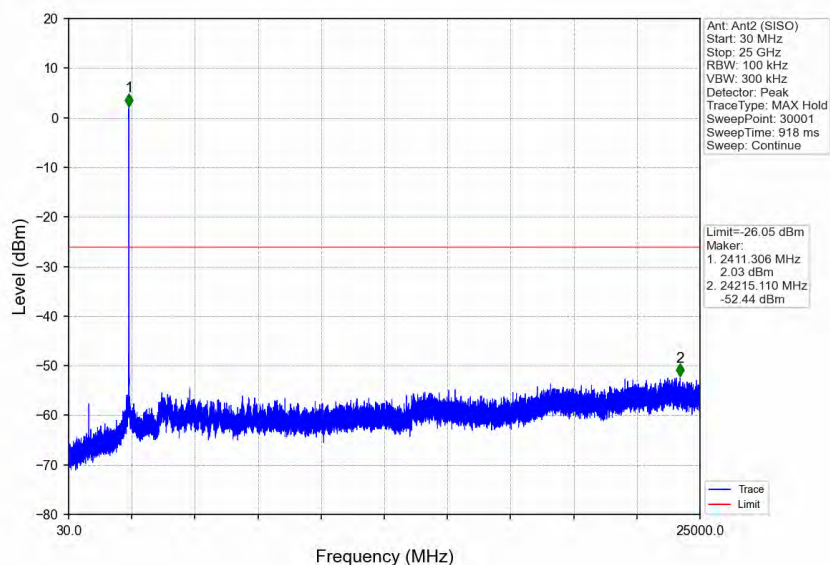
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802.11b LCH 2412MHz Ant2 (SISO) NTNV



802.11b LCH 2412MHz Ant2 (SISO) NTNV



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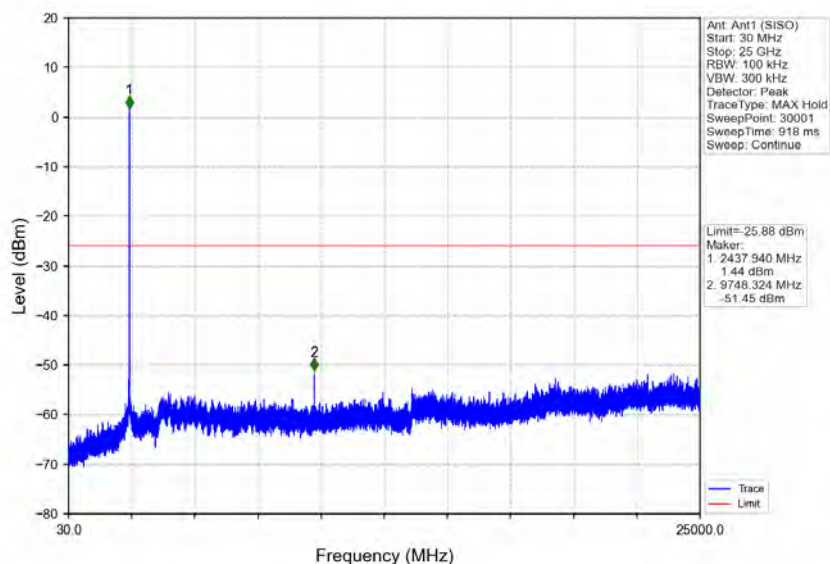
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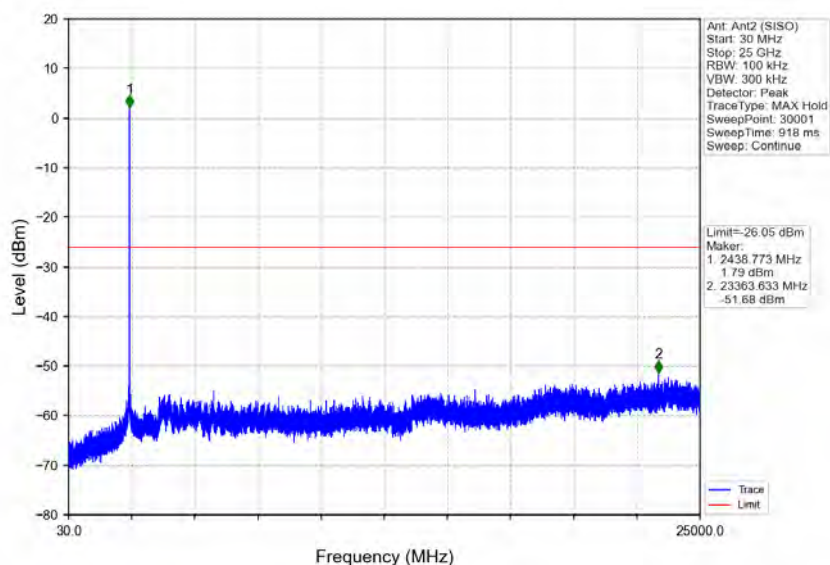
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802.11b MCH 2437MHz Ant1 (SISO) NTNV



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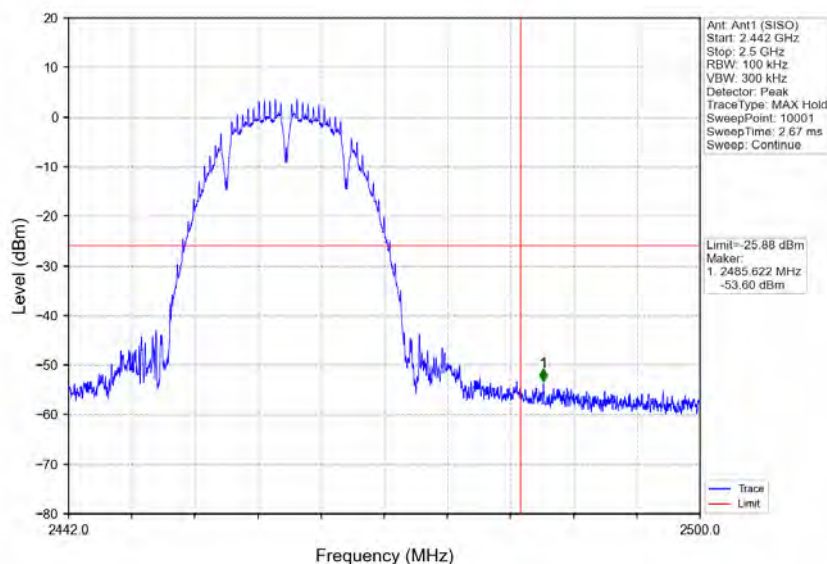
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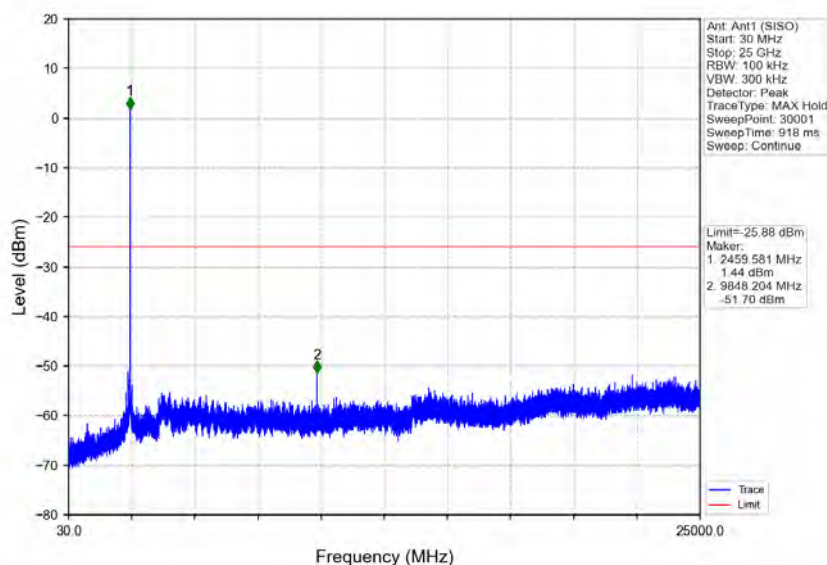
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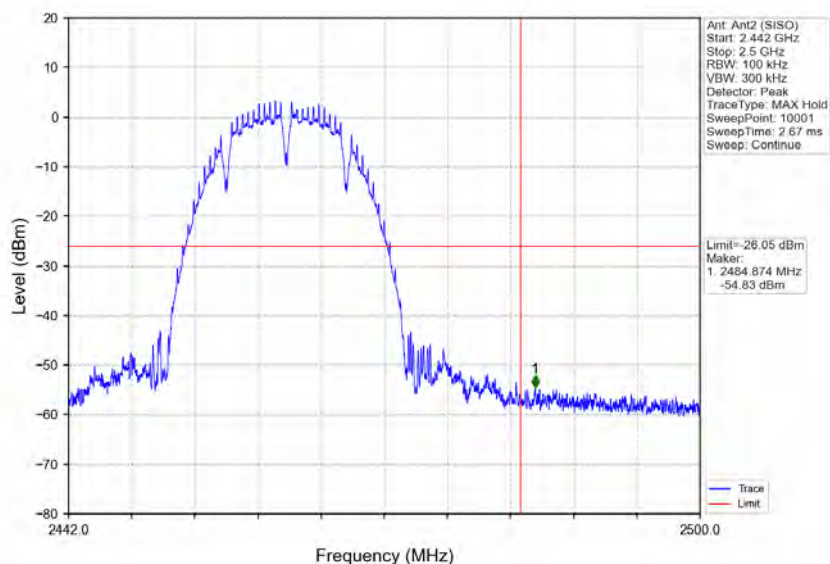
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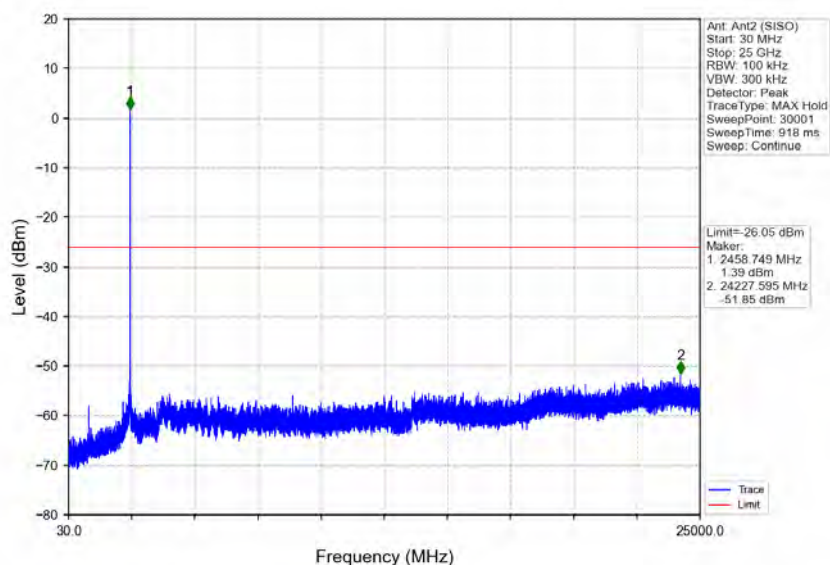
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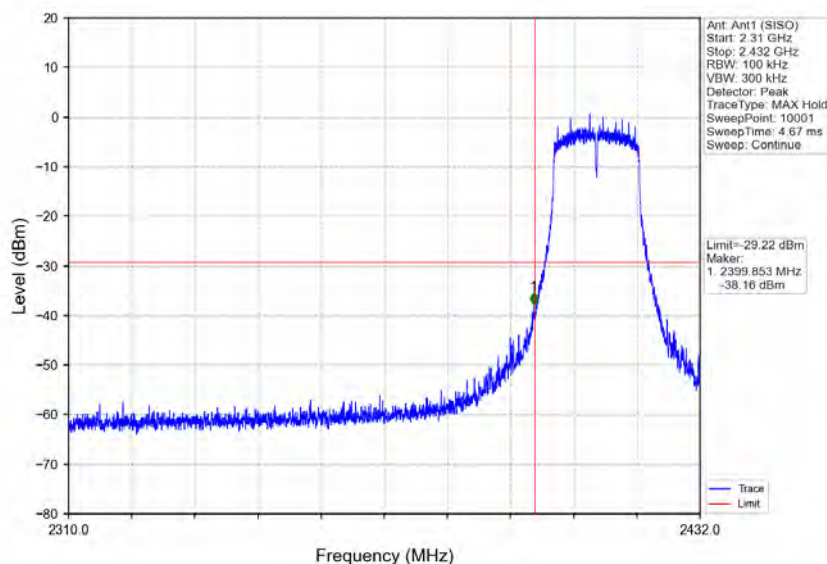
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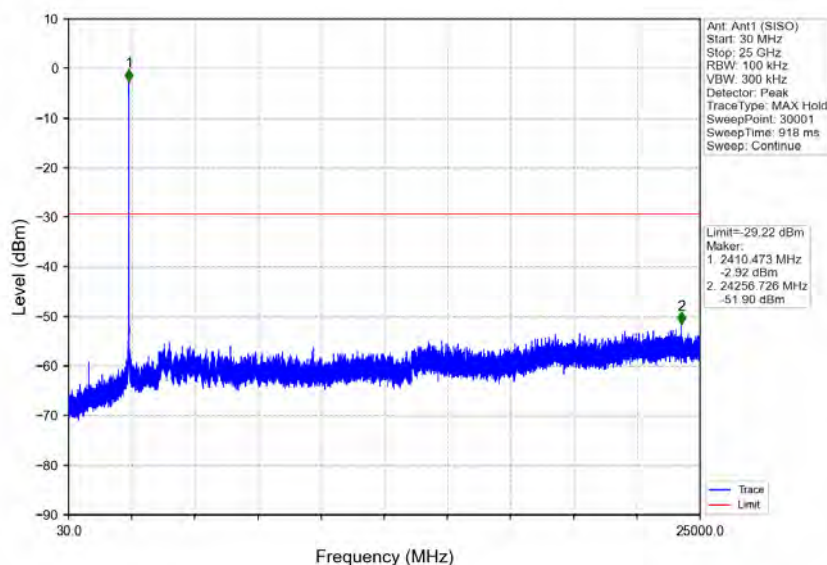
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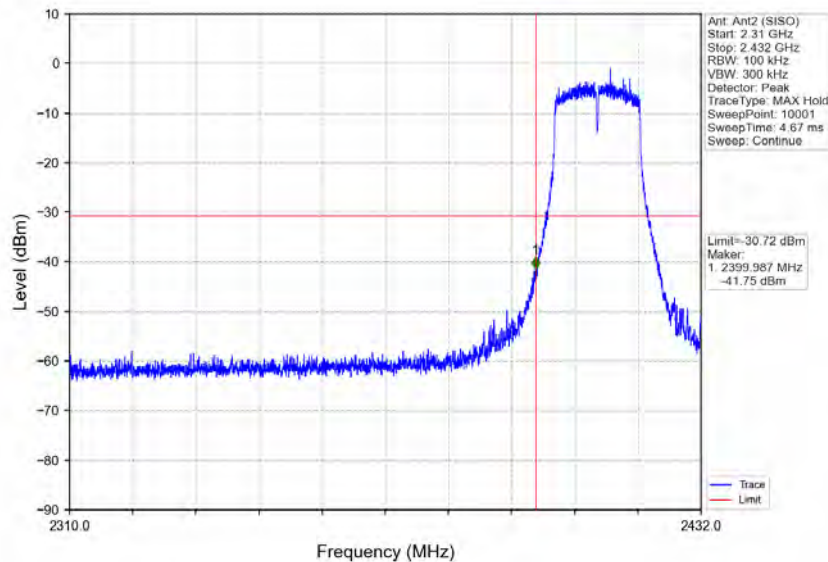
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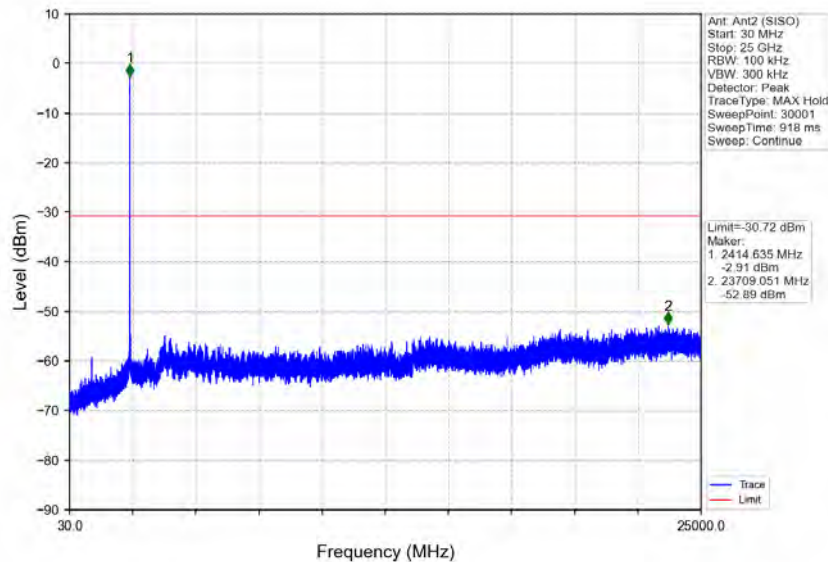
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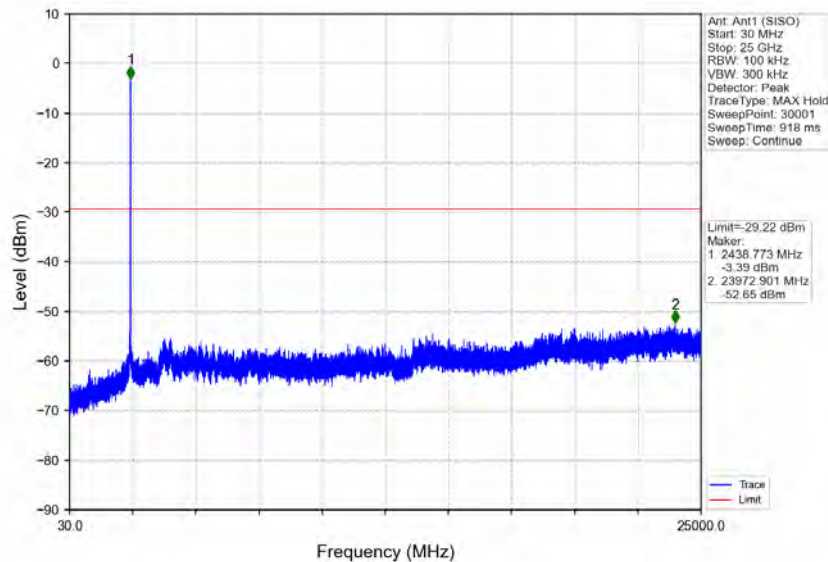
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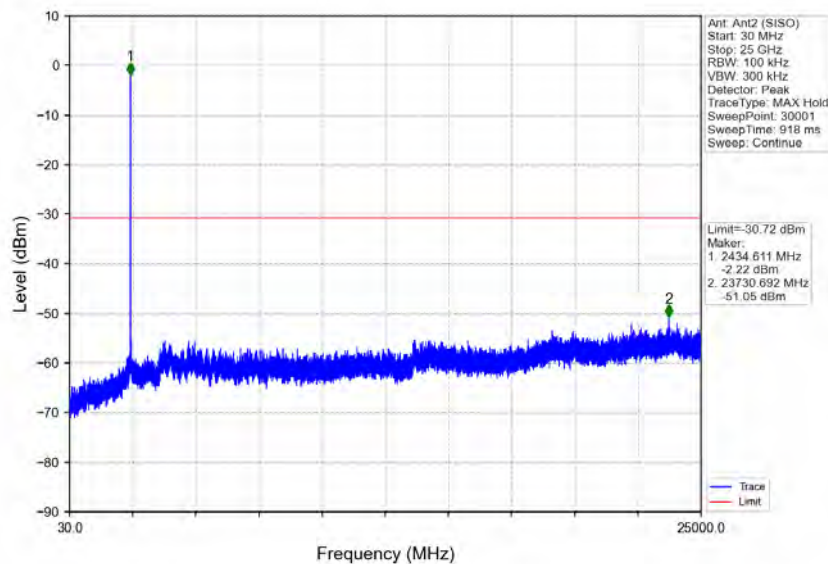
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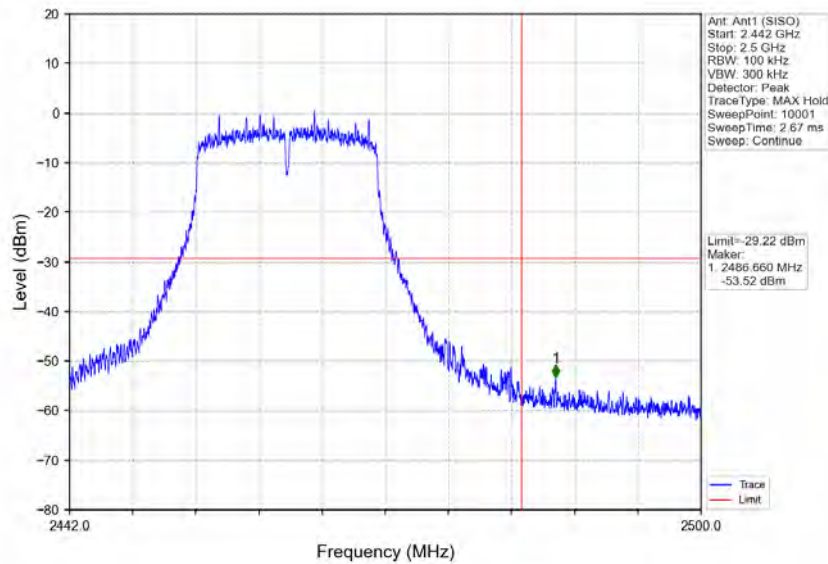
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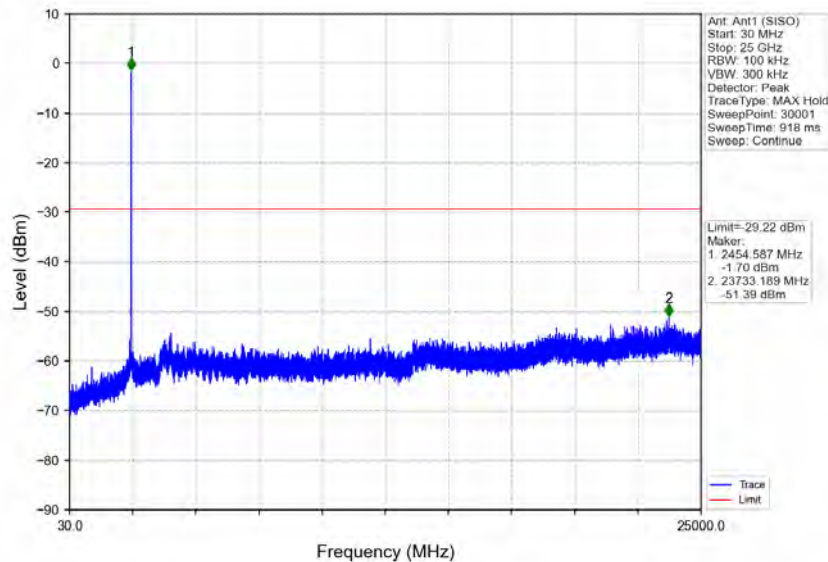
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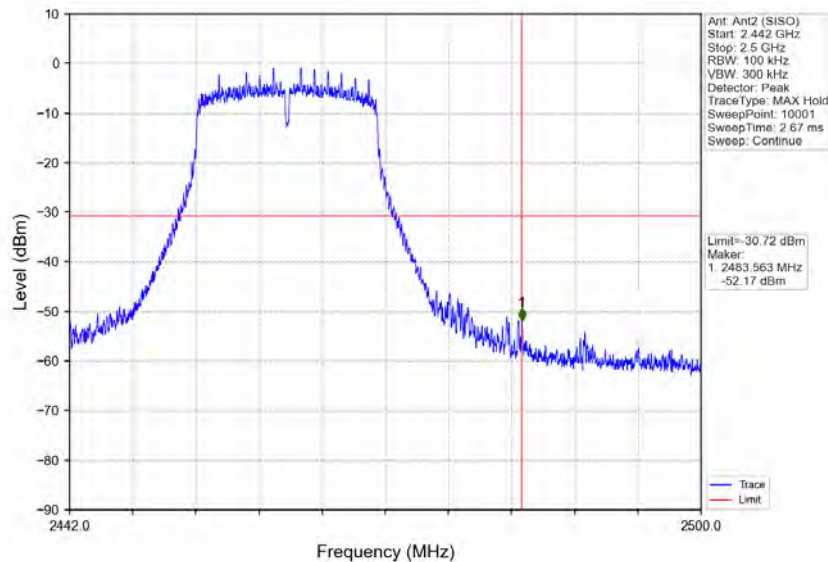
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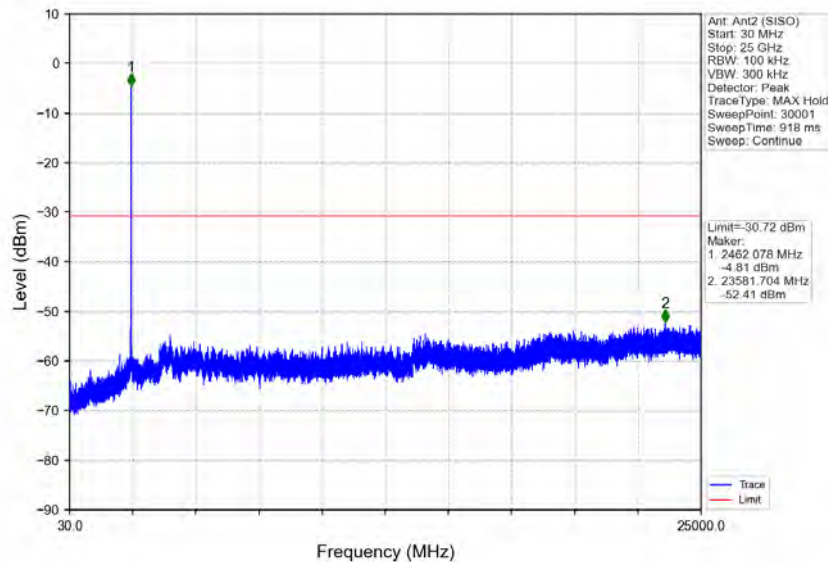
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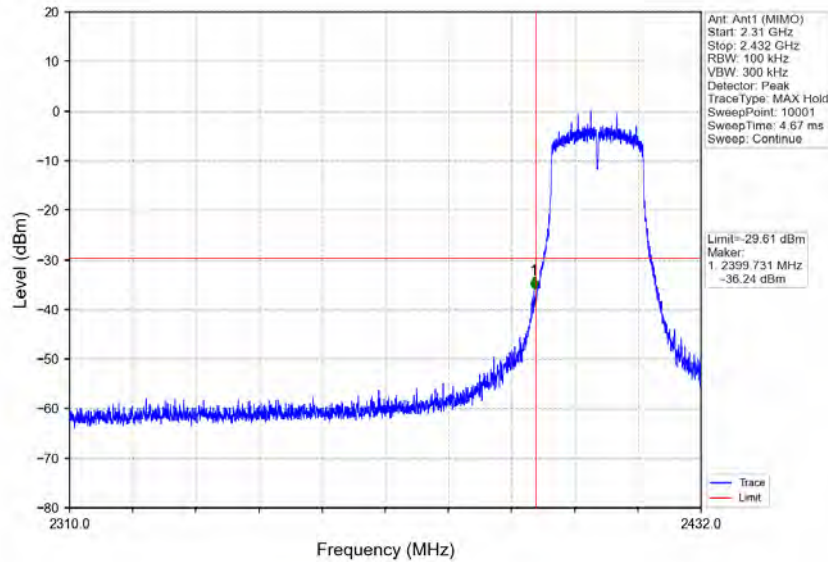
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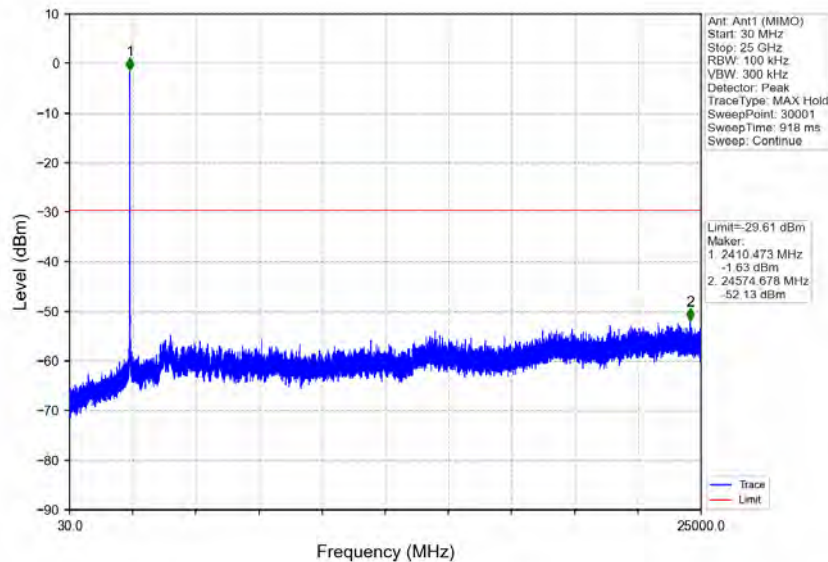
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802.11n(HT20) LCH 2412MHz_Ant1 (MIMO) NTNV



802.11n(HT20) LCH 2412MHz_Ant1 (MIMO) NTNV



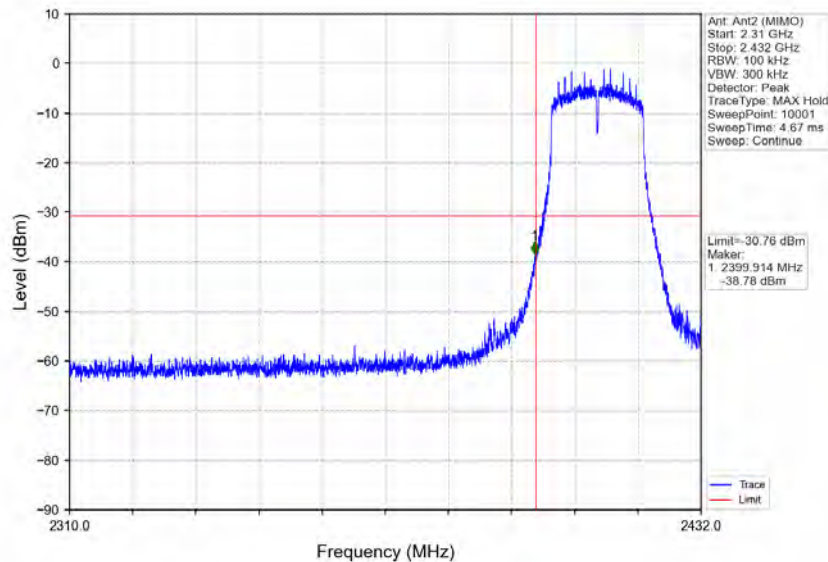
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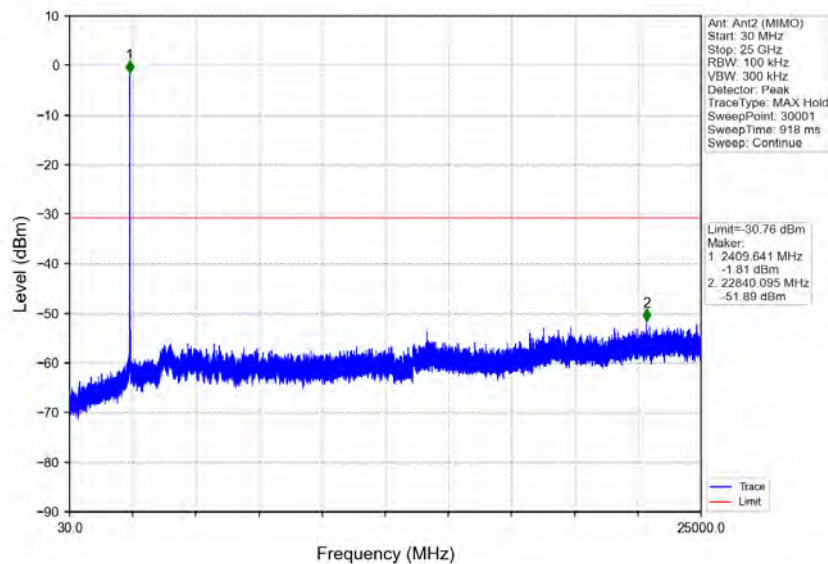
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802.11n(HT20) LCH 2412MHz_Ant2 (MIMO) NTNV



802.11n(HT20) LCH 2412MHz_Ant2 (MIMO) NTNV



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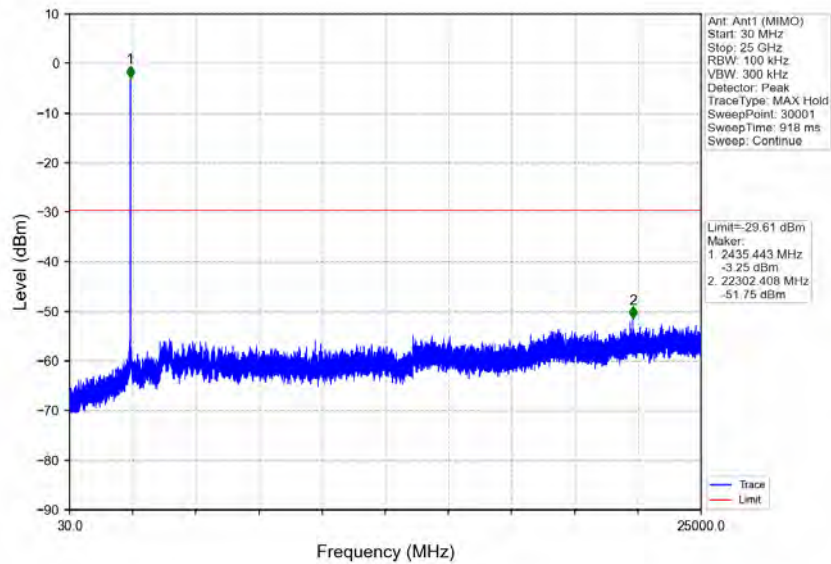
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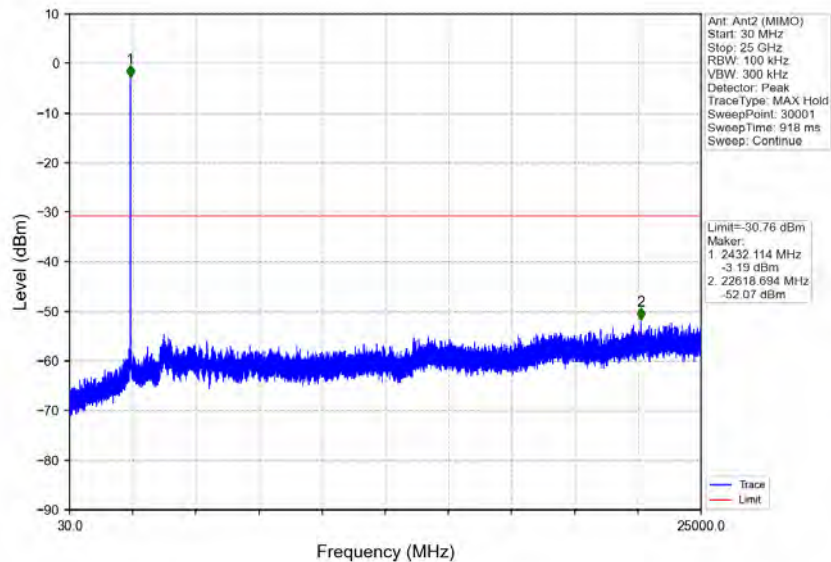
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



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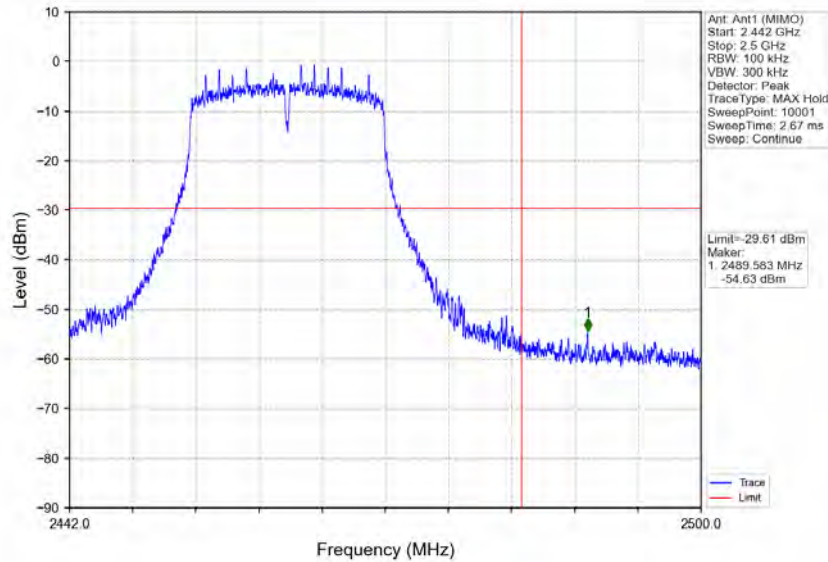
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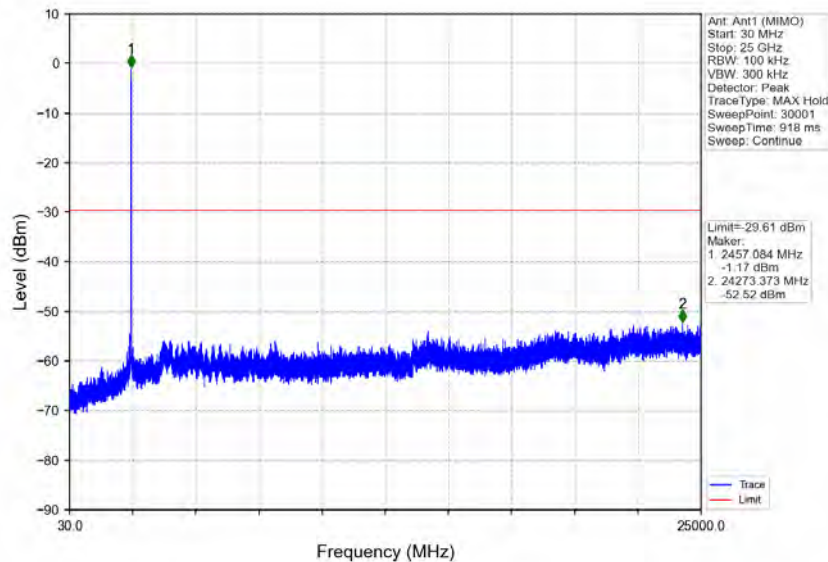
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



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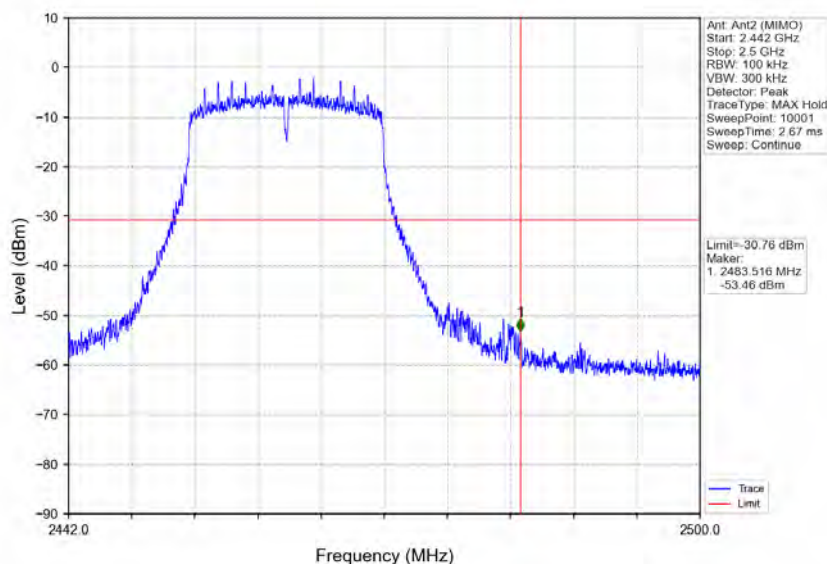
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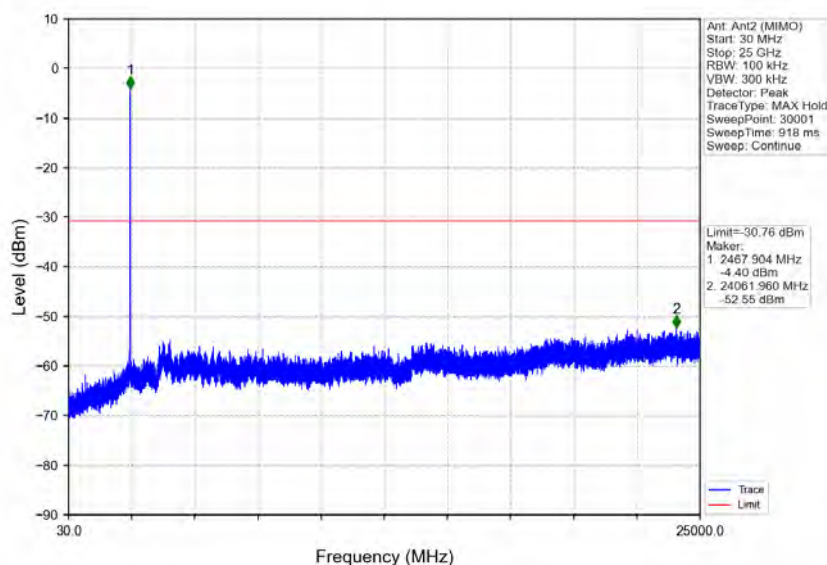
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802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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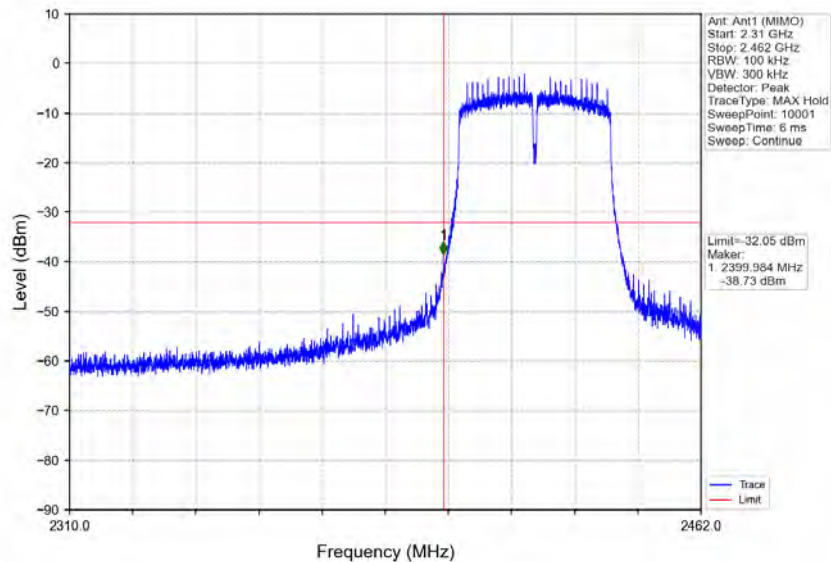
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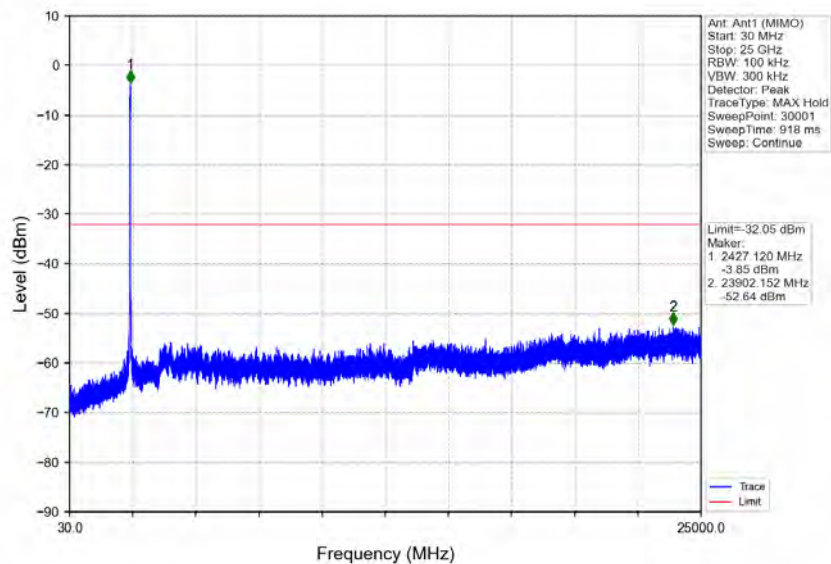
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802.11n(HT40) LCH_2422MHz_Ant1 (MIMO) NTNV



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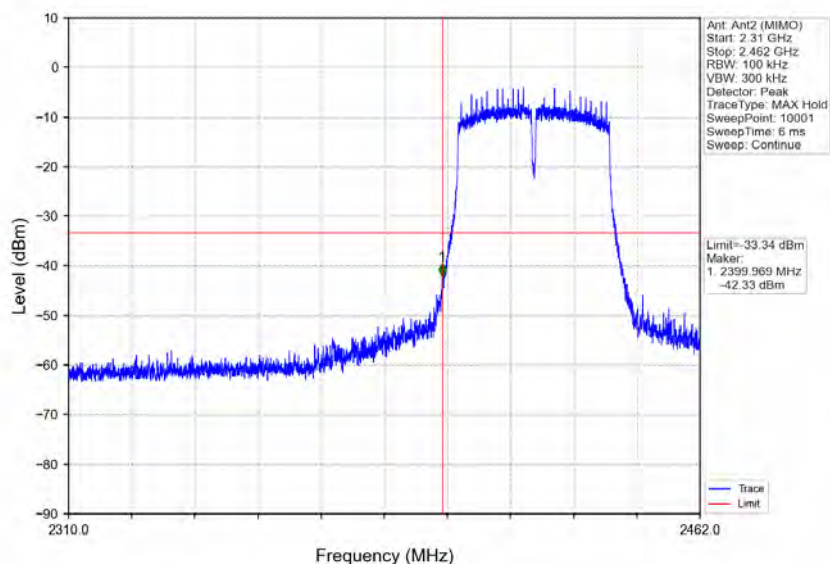
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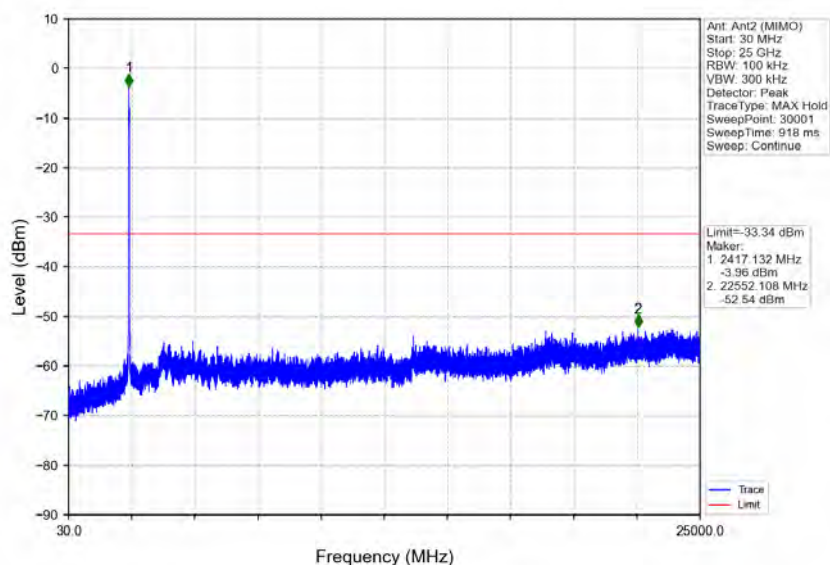
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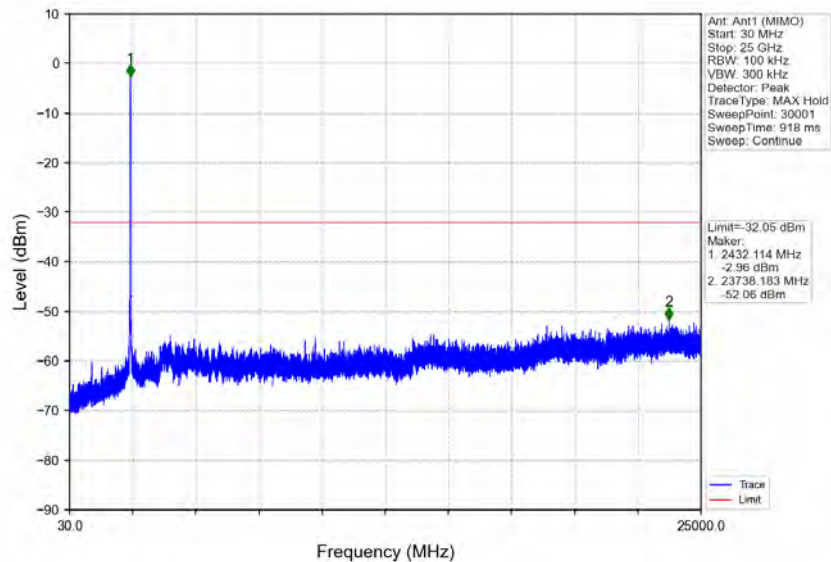
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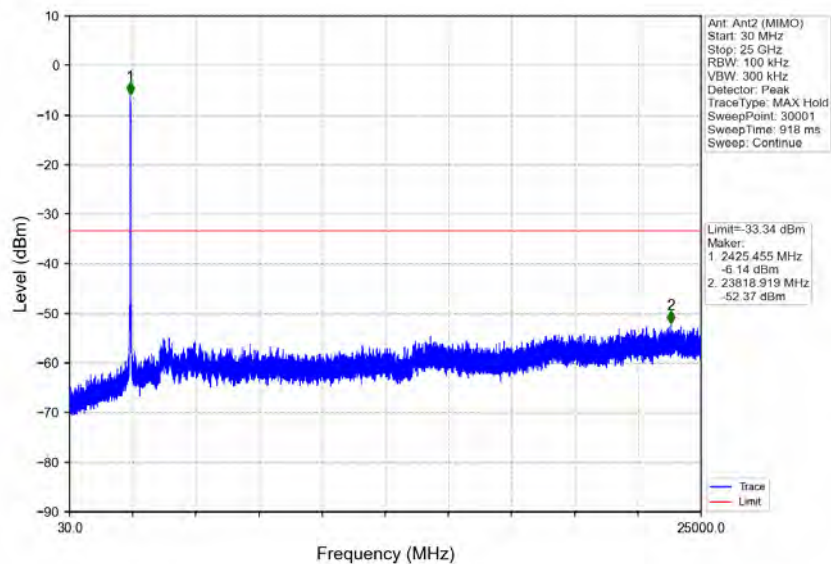
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802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTN



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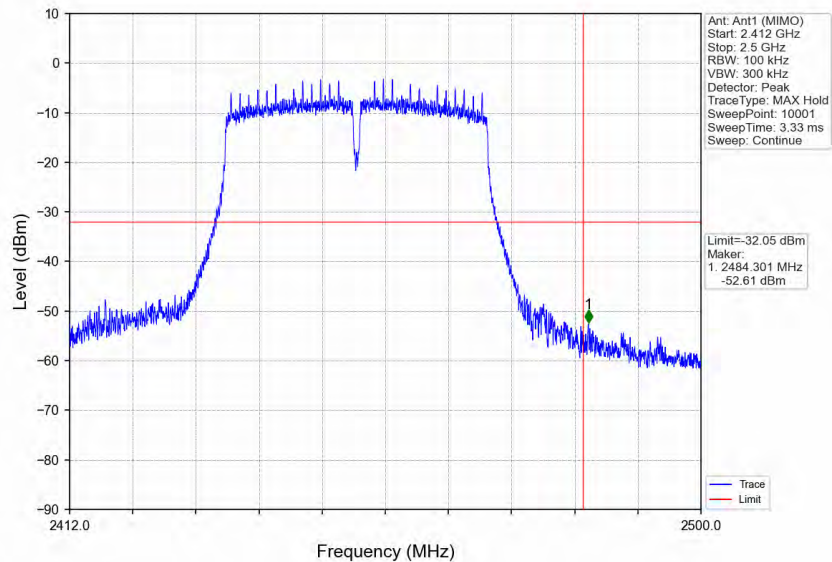
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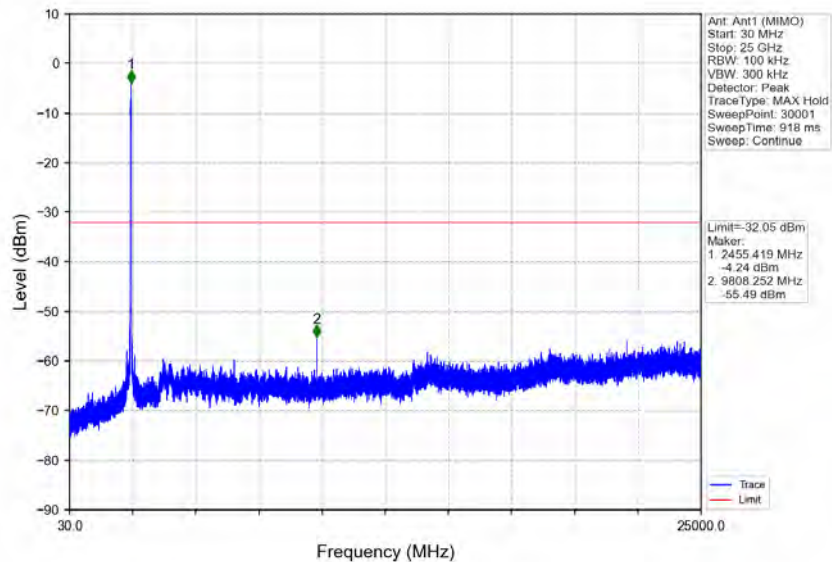
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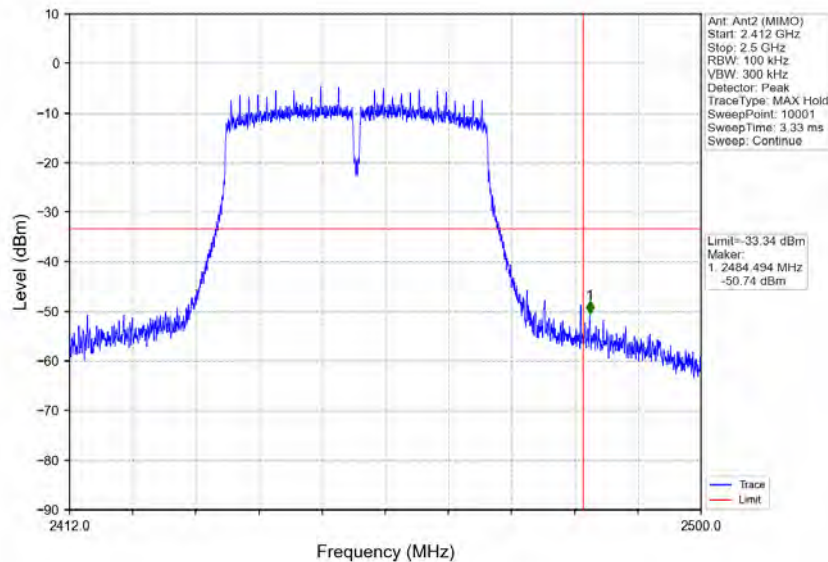
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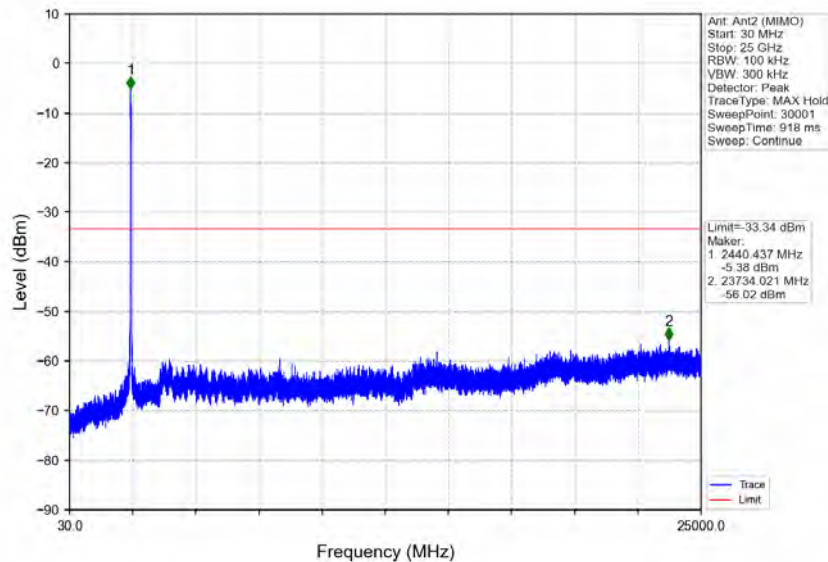
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