

Appendix A for KSCR220100015301

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	12.417	12.570	98.78	0.05	0.77
		2437	12.416	12.570	98.77	0.05	0.85
		2462	12.420	12.590	98.65	0.06	0.98
802.11g	SISO	2412	2.065	2.225	92.81	0.32	4.73
		2437	2.062	2.234	92.30	0.35	5.53
		2462	2.064	2.216	93.14	0.31	3.96
802.11n (HT20)	MIMO	2412	1.920	2.073	92.62	0.33	5.13
		2437	1.915	2.054	93.23	0.30	4.72
		2462	1.916	2.080	92.12	0.36	5.51
802.11n (HT40)	MIMO	2422	0.943	1.114	84.65	0.72	11.63
		2437	0.944	1.113	84.82	0.72	9.95
		2452	0.941	1.114	84.47	0.73	11.68



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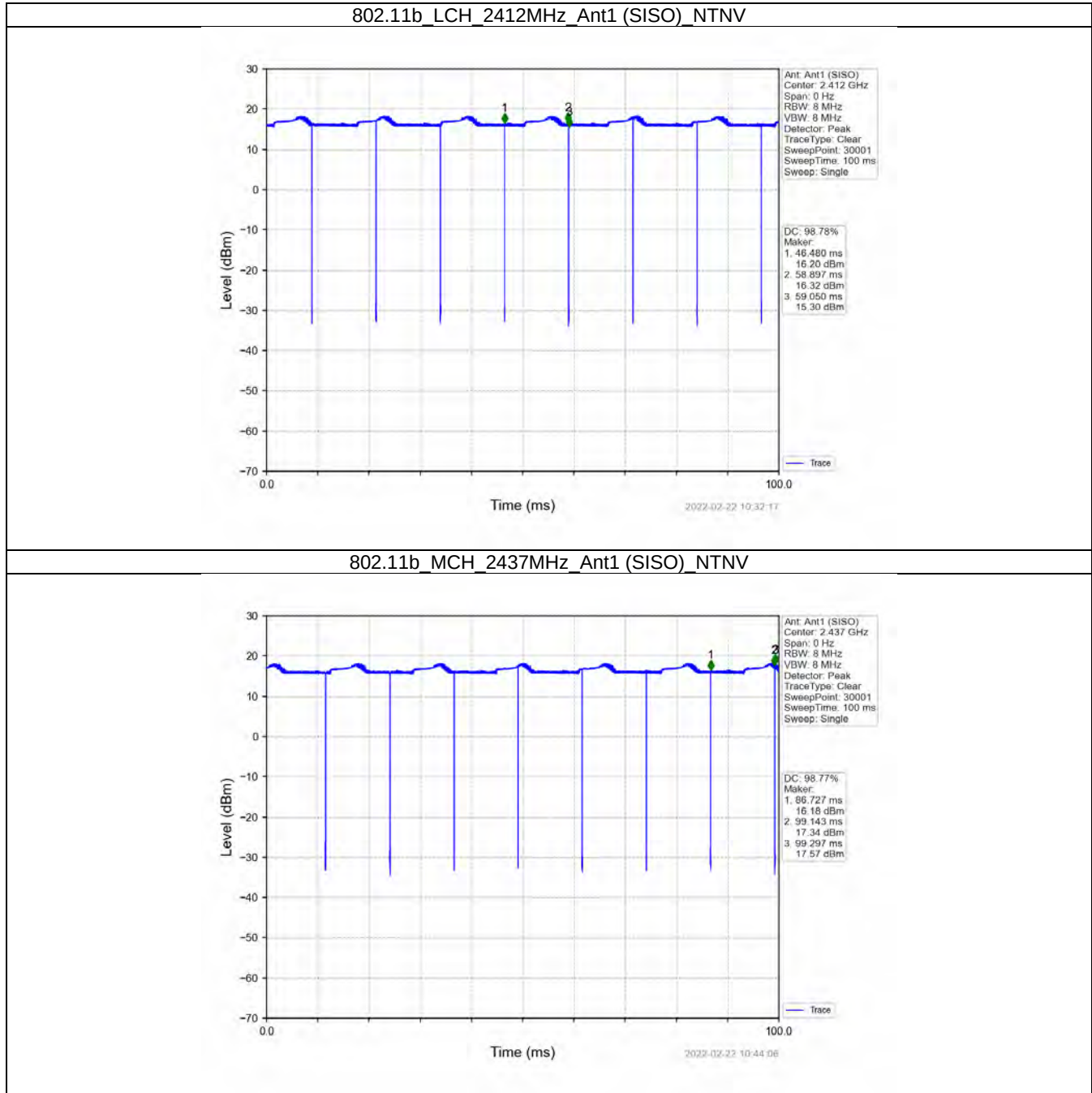
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1.1.2 Test Graph



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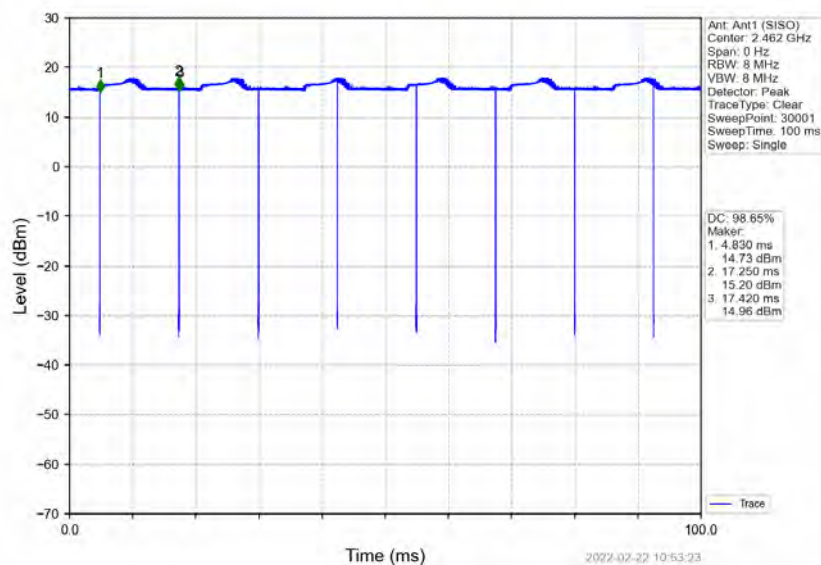
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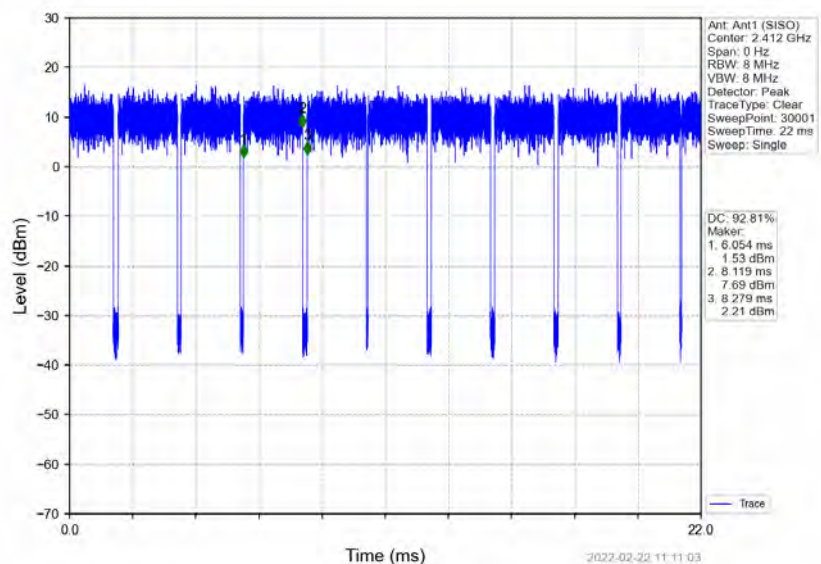
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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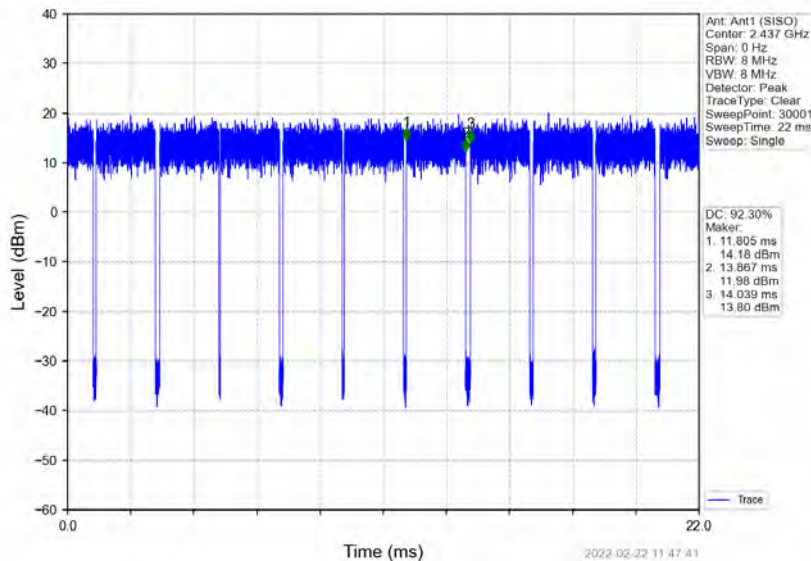
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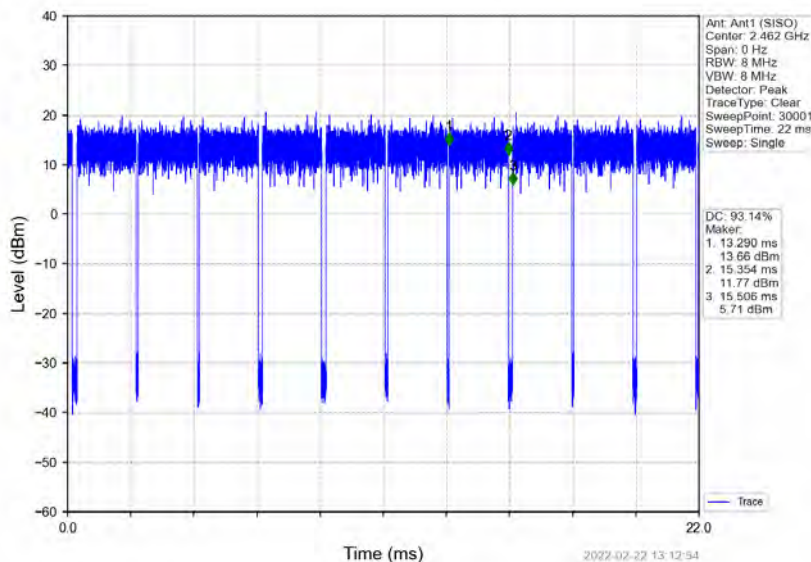
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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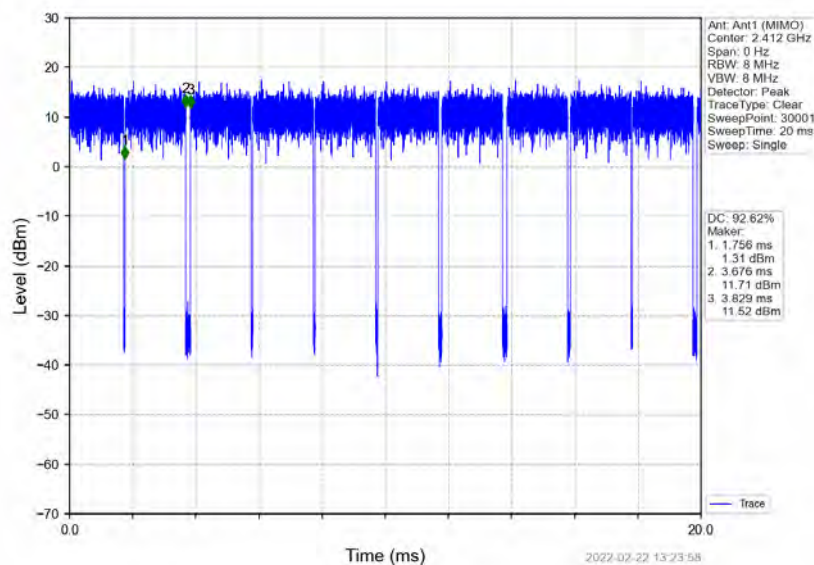
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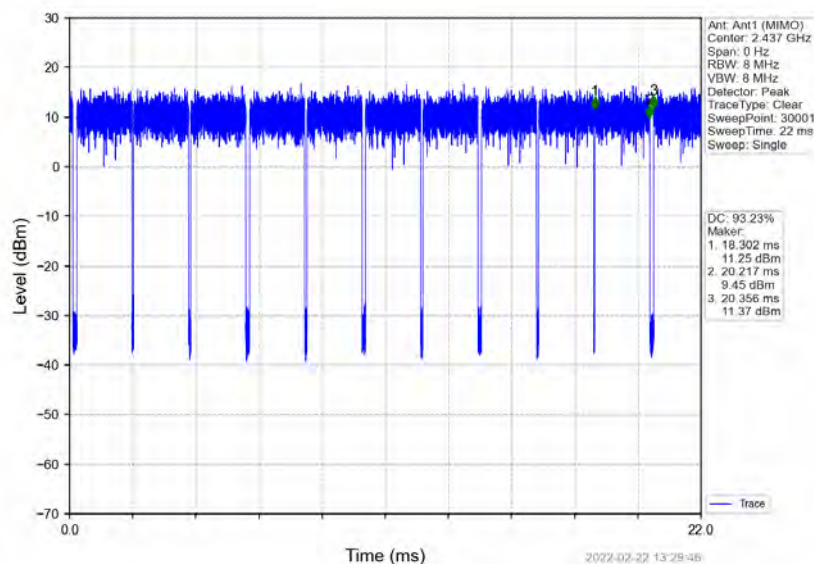
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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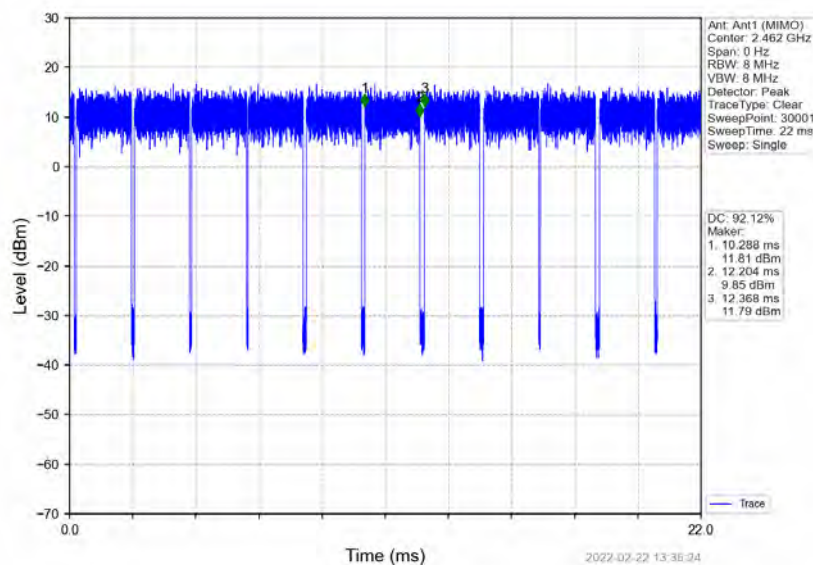
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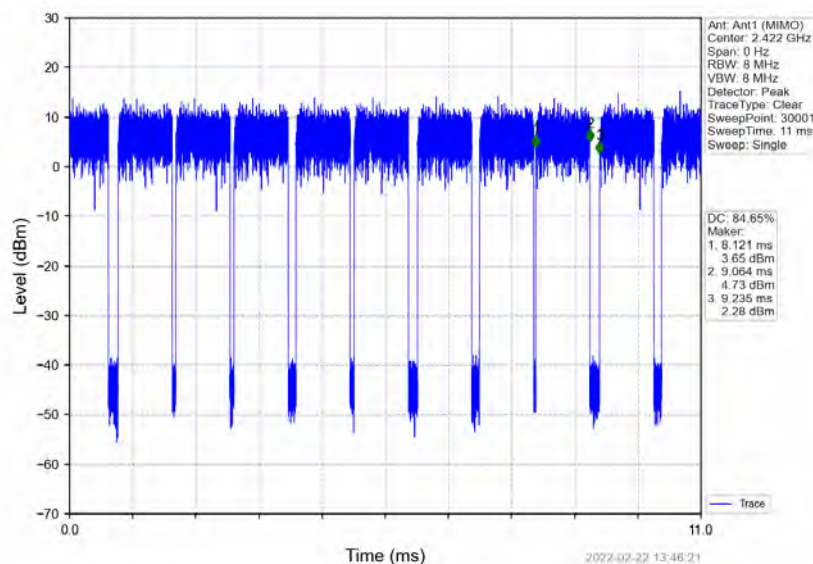
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802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTVN



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



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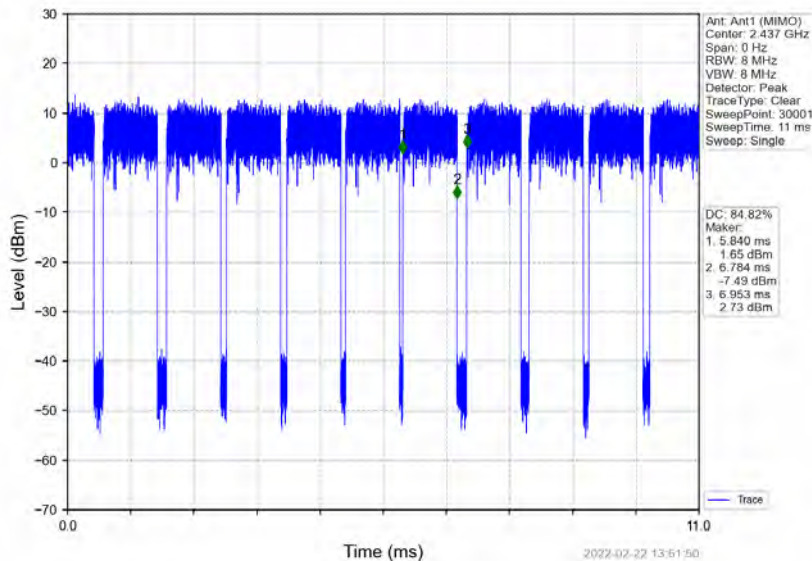
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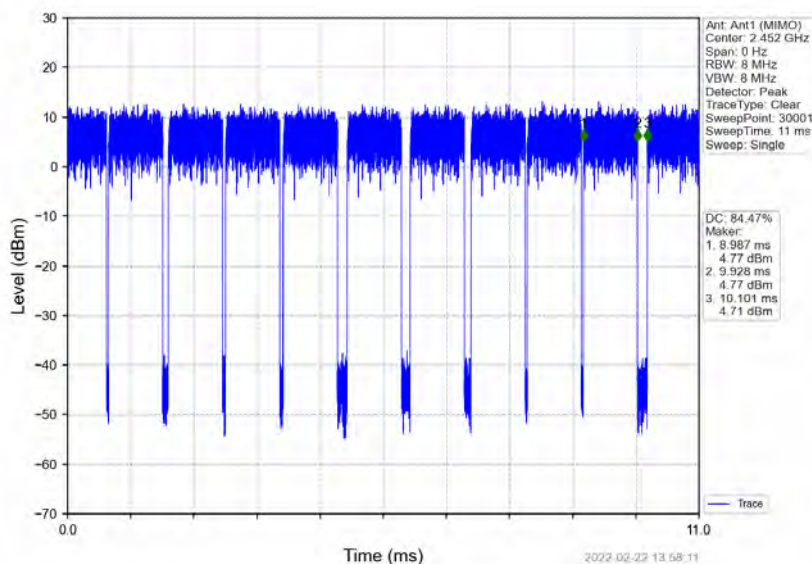
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_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	15.007	Pass
			2	14.902	Pass
		2437	1	14.968	Pass
			2	14.888	Pass
		2462	1	14.909	Pass
			2	14.917	Pass
802.11g	SISO	2412	1	17.488	Pass
			2	17.884	Pass
		2437	1	17.553	Pass
			2	17.498	Pass
		2462	1	17.608	Pass
			2	17.731	Pass
802.11n (HT20)	MIMO	2412	1	18.480	Pass
			2	18.455	Pass
		2437	1	18.459	Pass
			2	18.420	Pass
		2462	1	18.524	Pass
			2	18.509	Pass
802.11n (HT40)	MIMO	2422	1	35.969	Pass
			2	35.976	Pass
		2437	1	36.028	Pass
			2	36.022	Pass
		2452	1	35.943	Pass
			2	35.953	Pass



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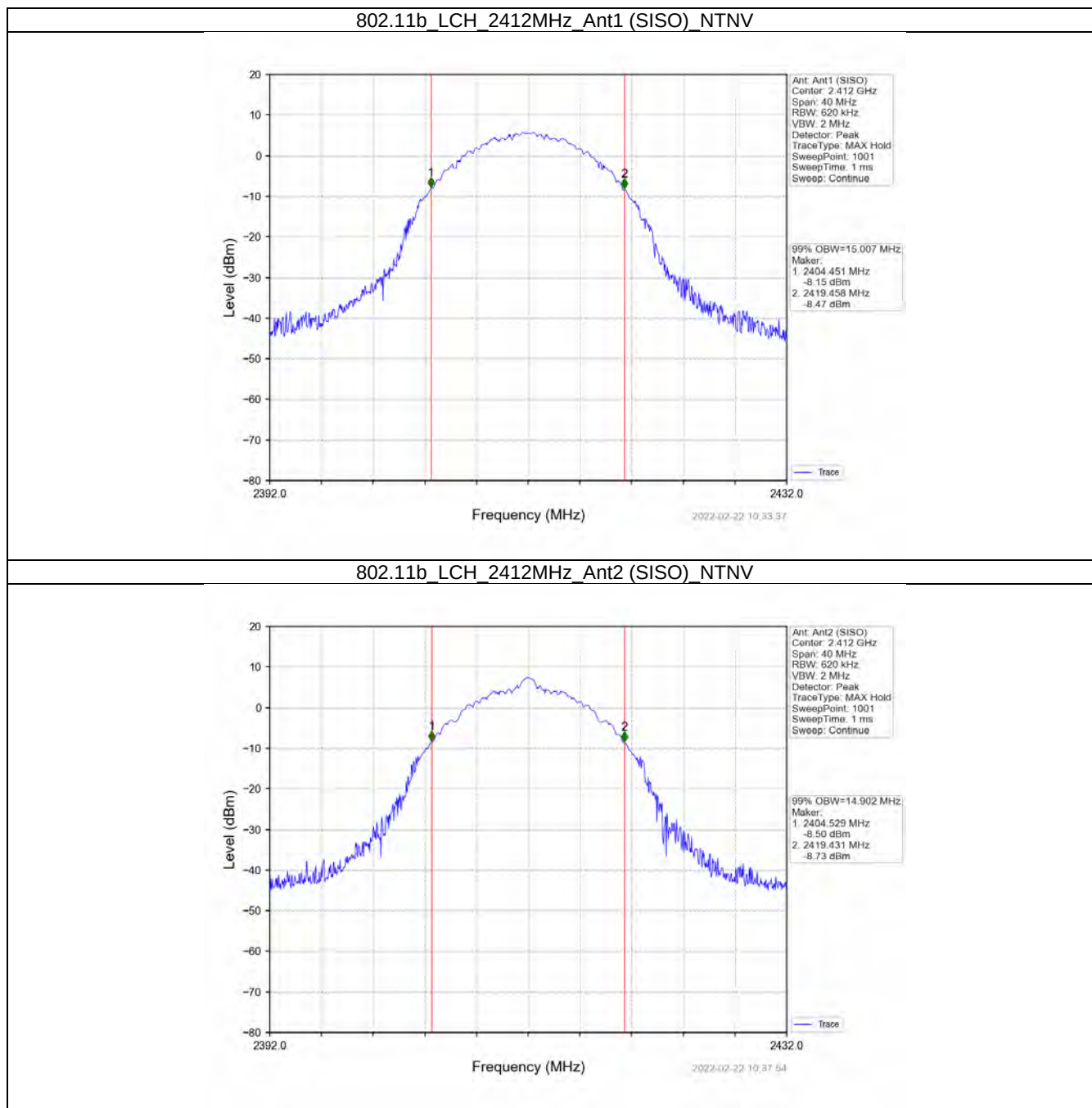
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2.1.2 Test Graph



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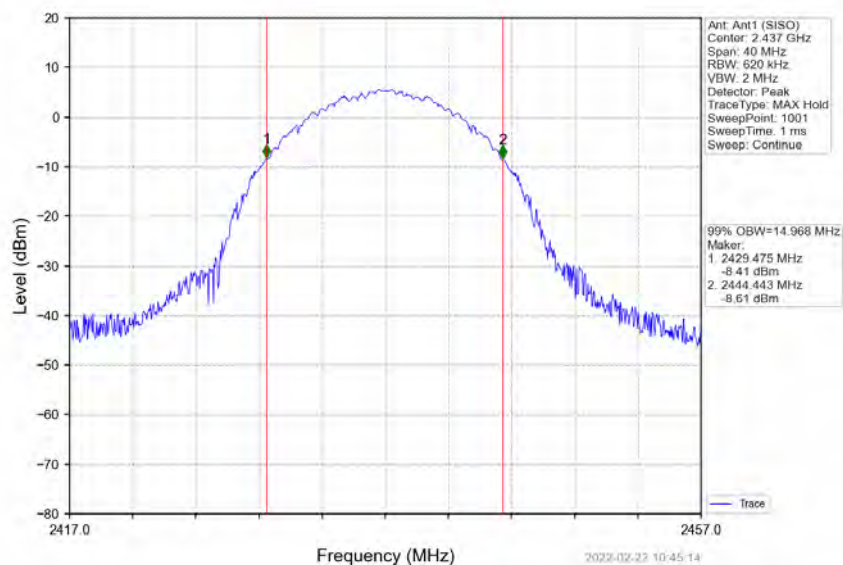
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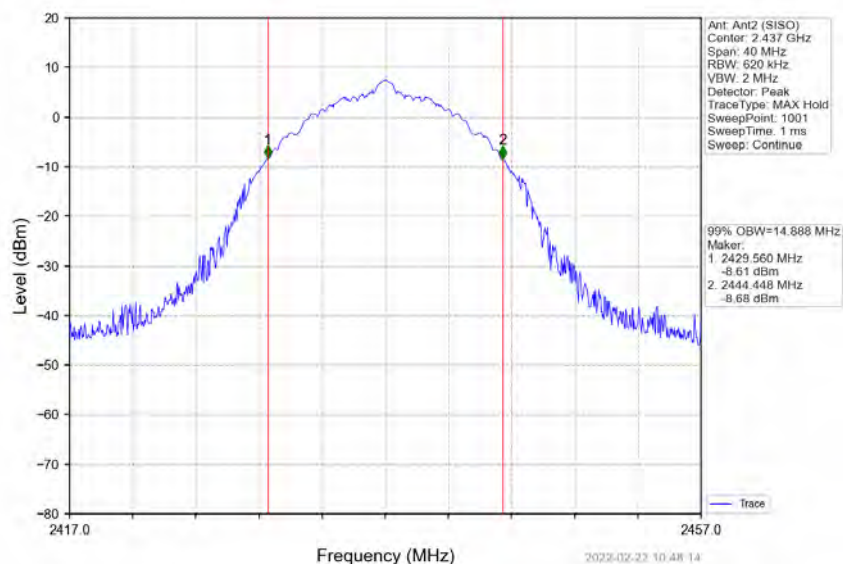
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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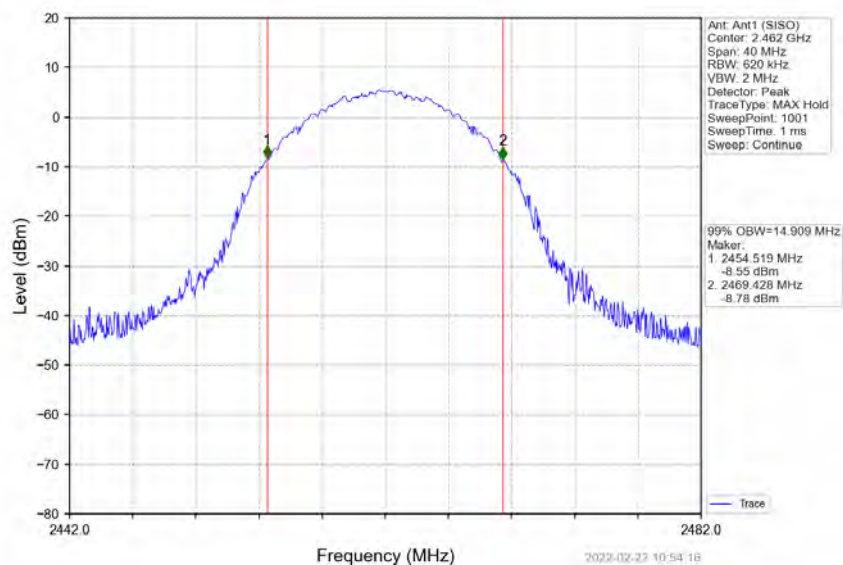
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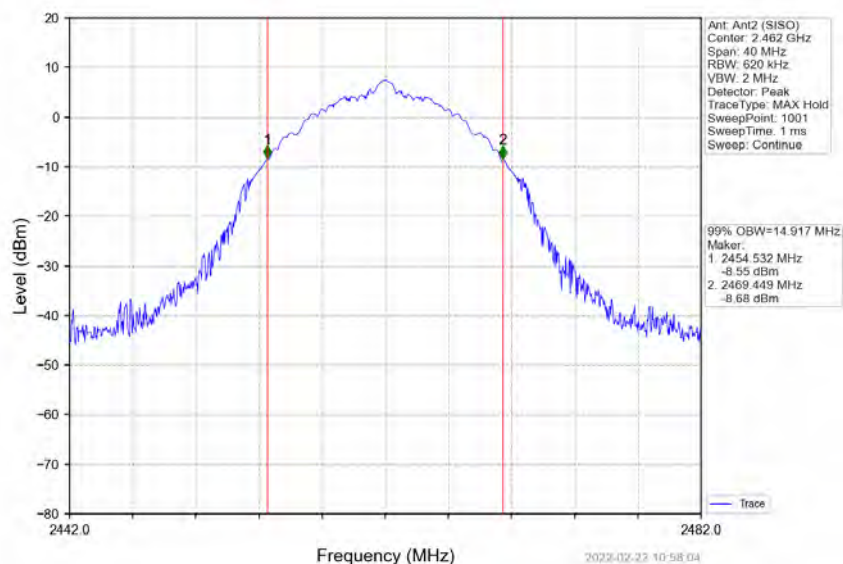
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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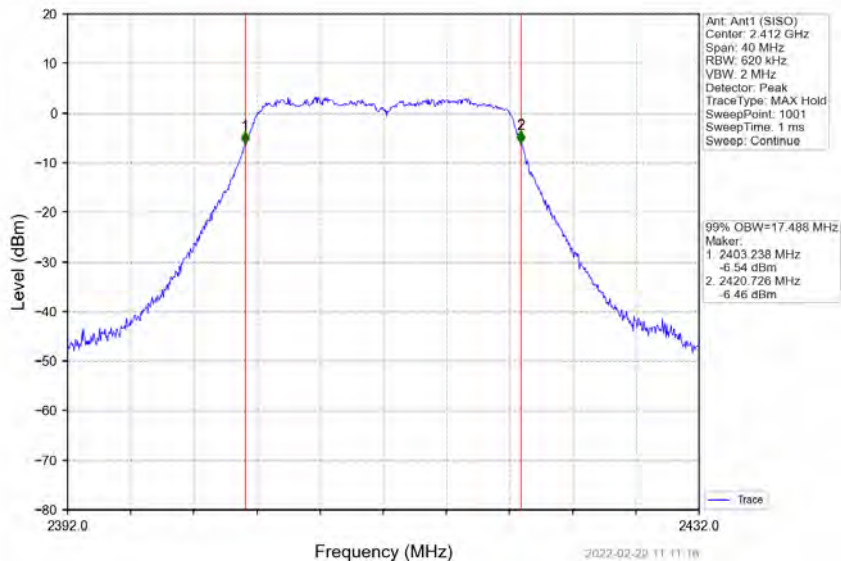
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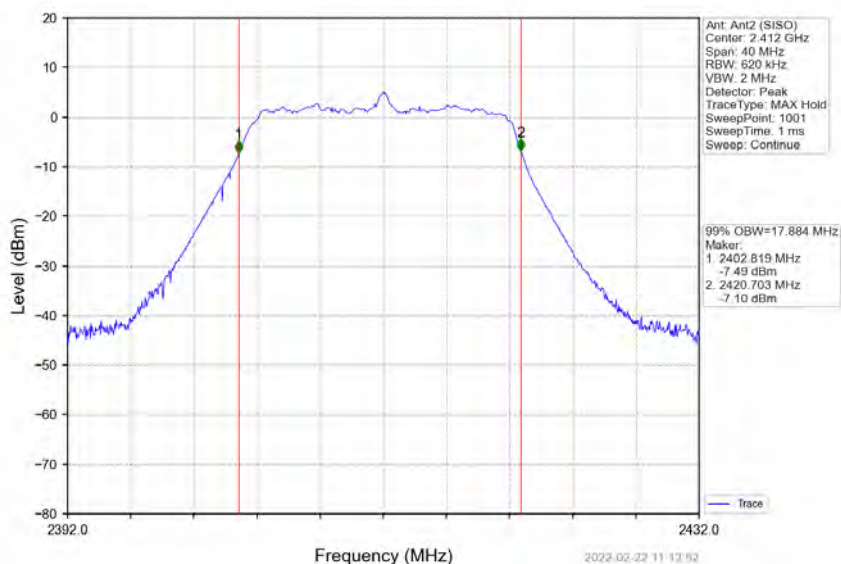
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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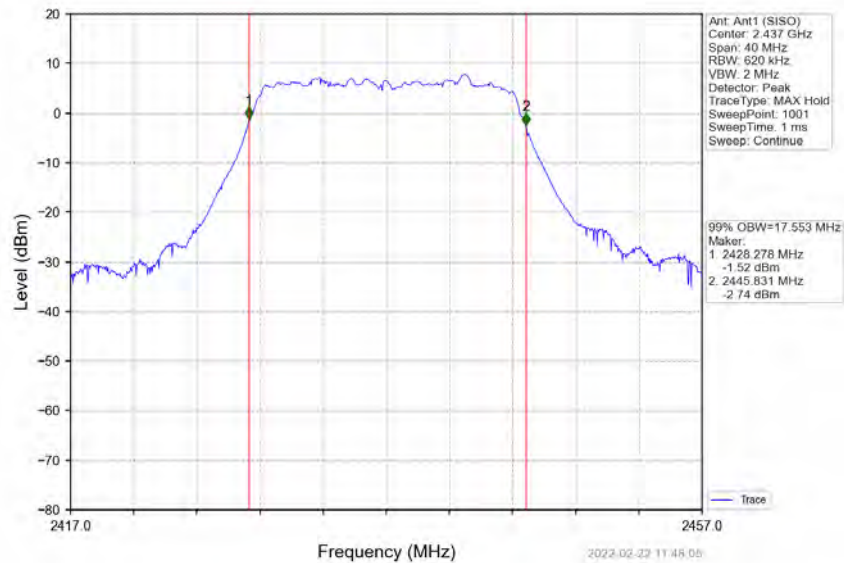
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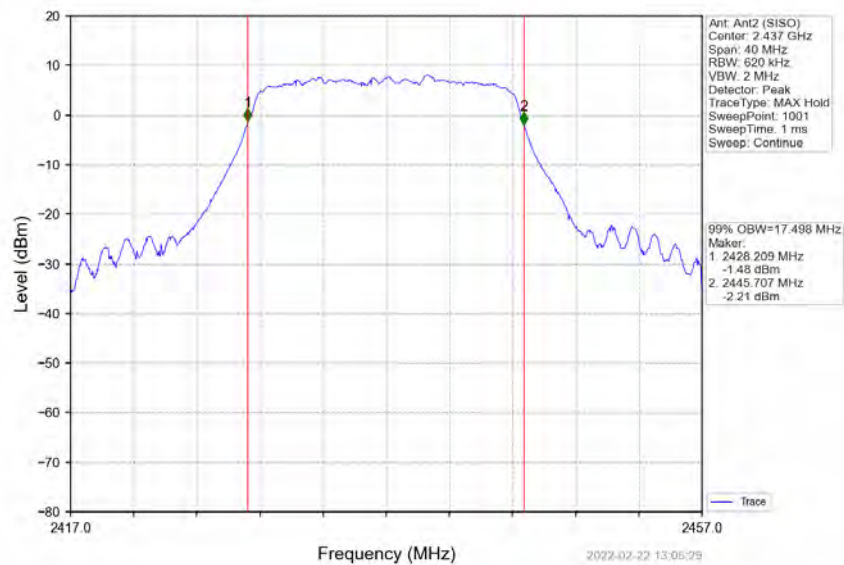
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802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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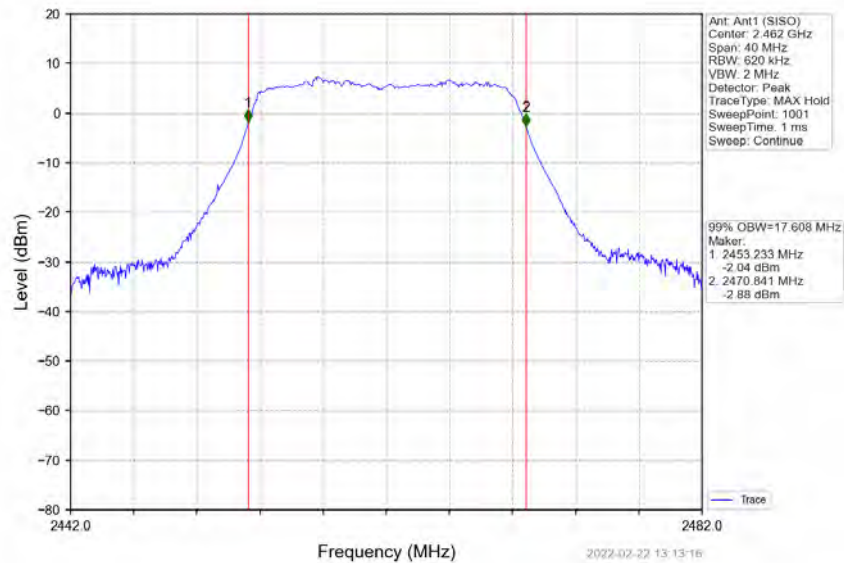
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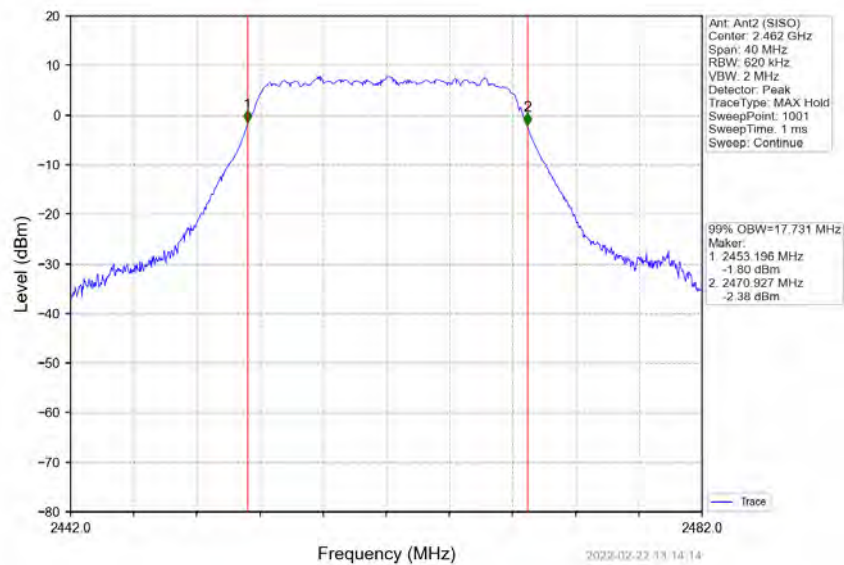
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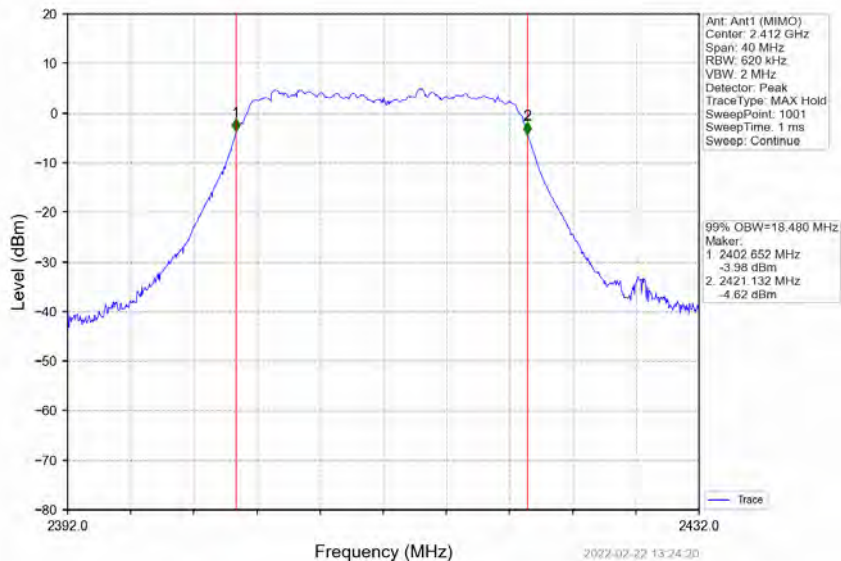
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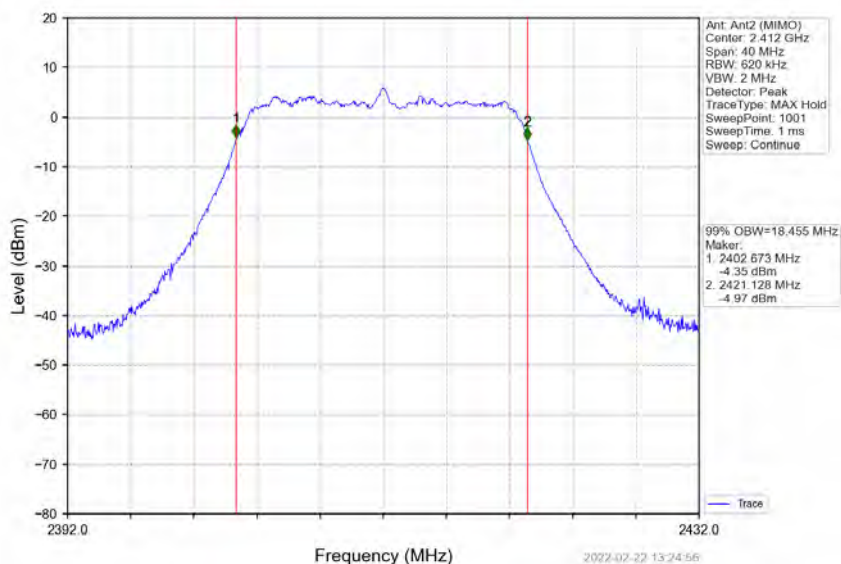
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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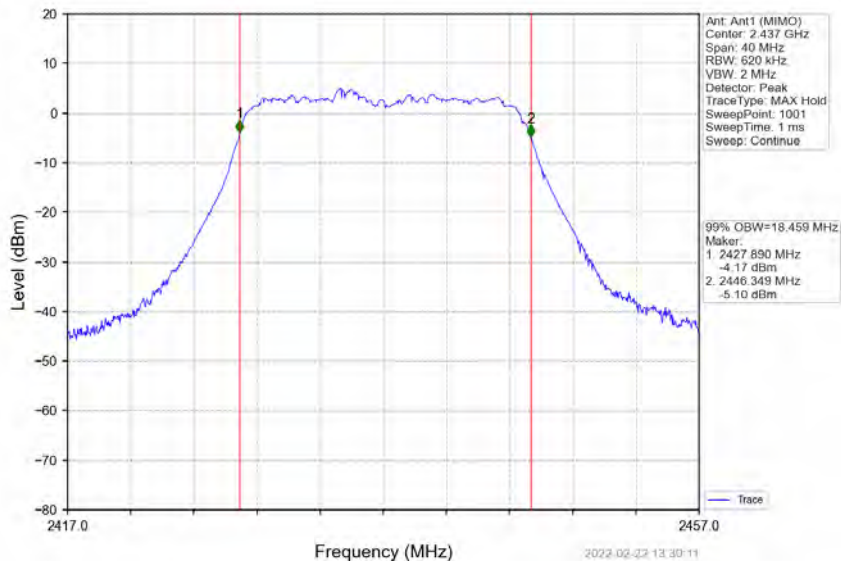
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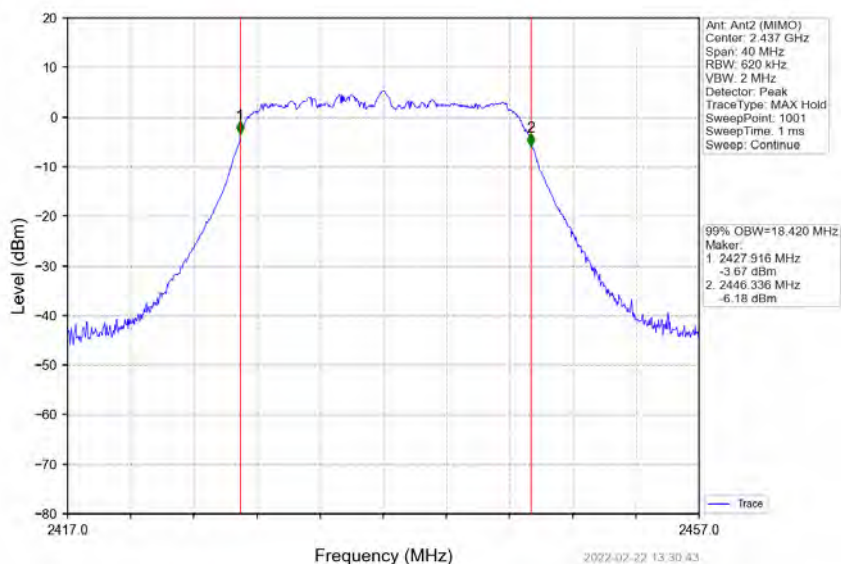
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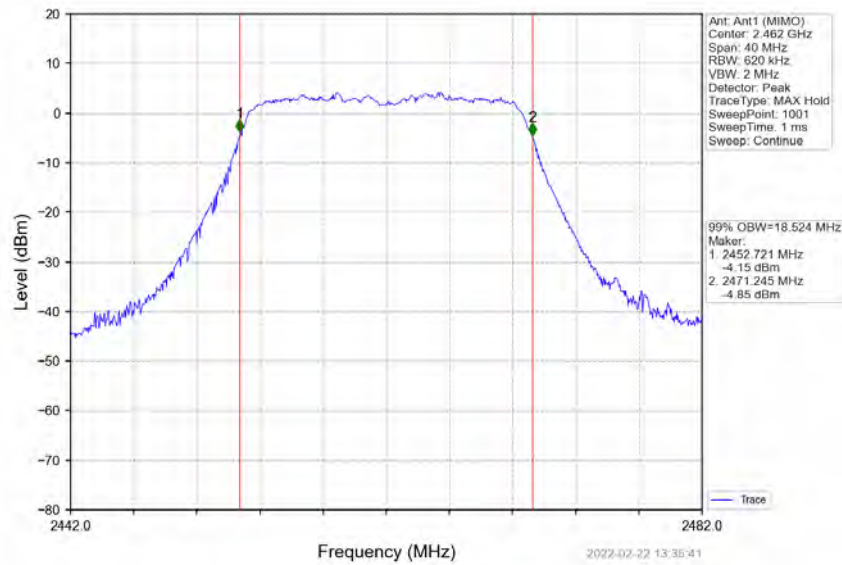
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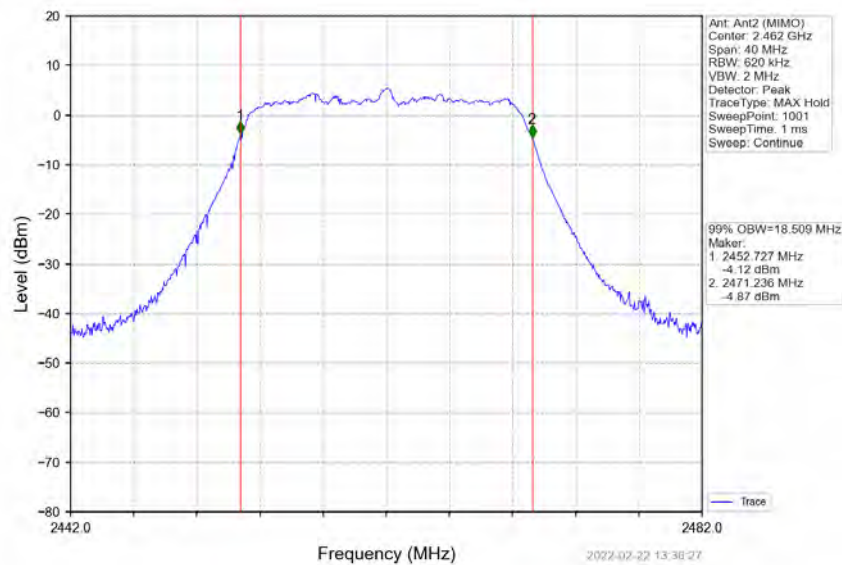
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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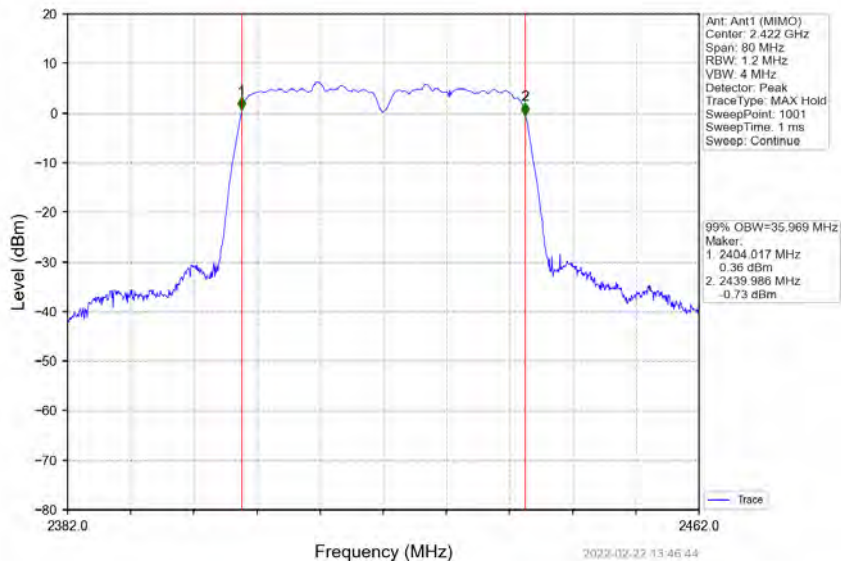
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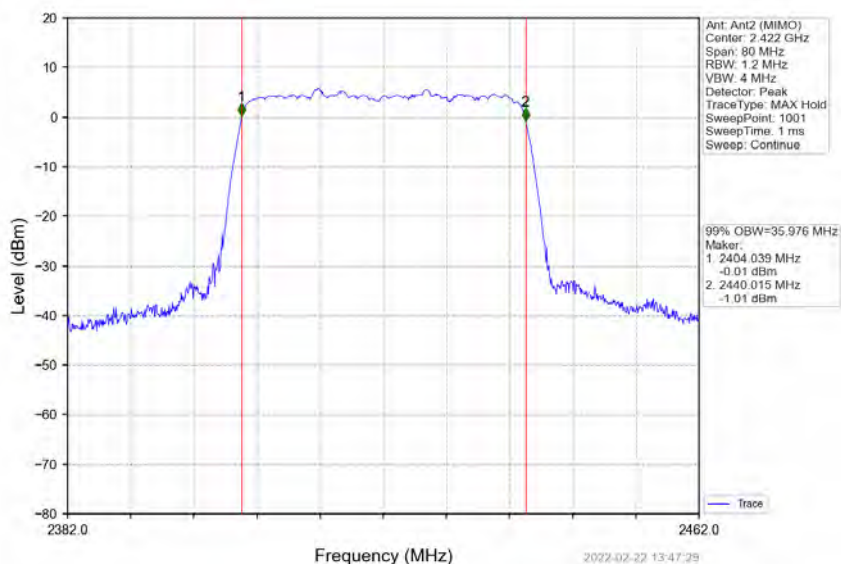
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802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTVN



802.11n(HT40) LCH 2422MHz_Ant2 (MIMO) NTVN



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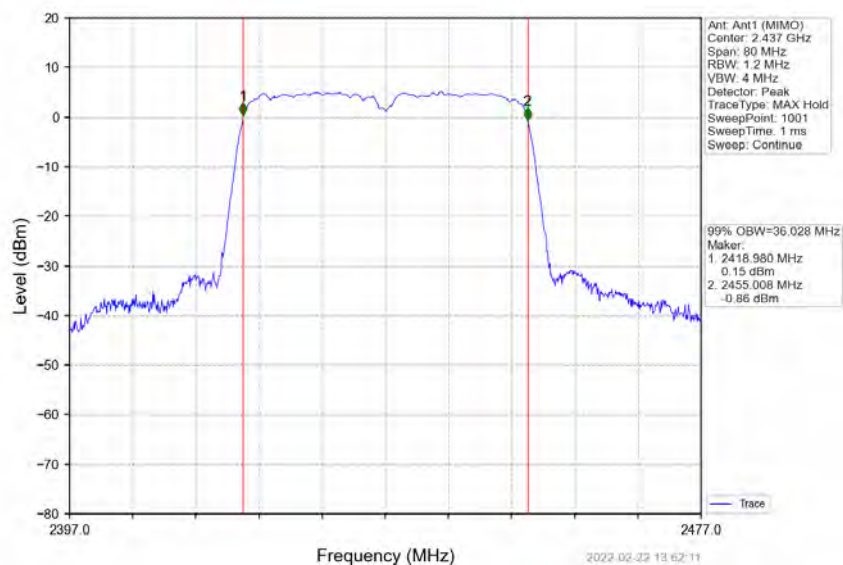
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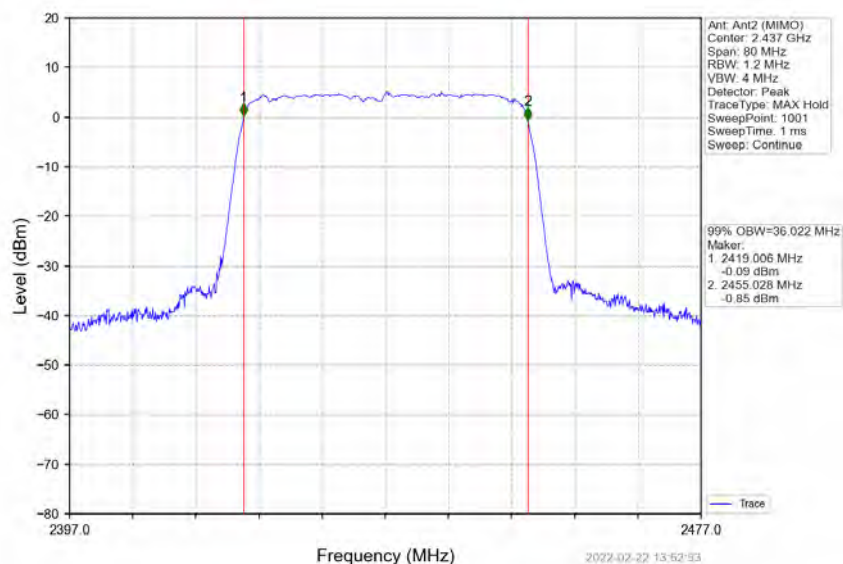
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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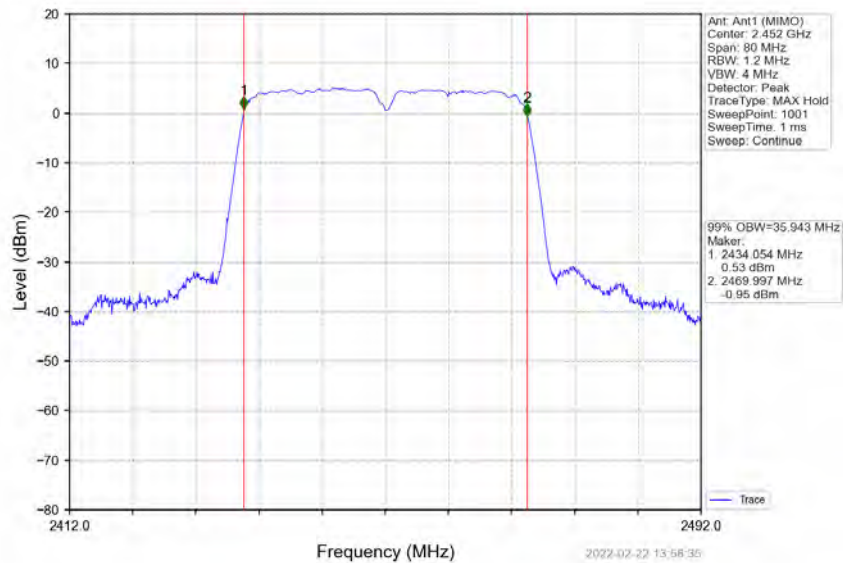
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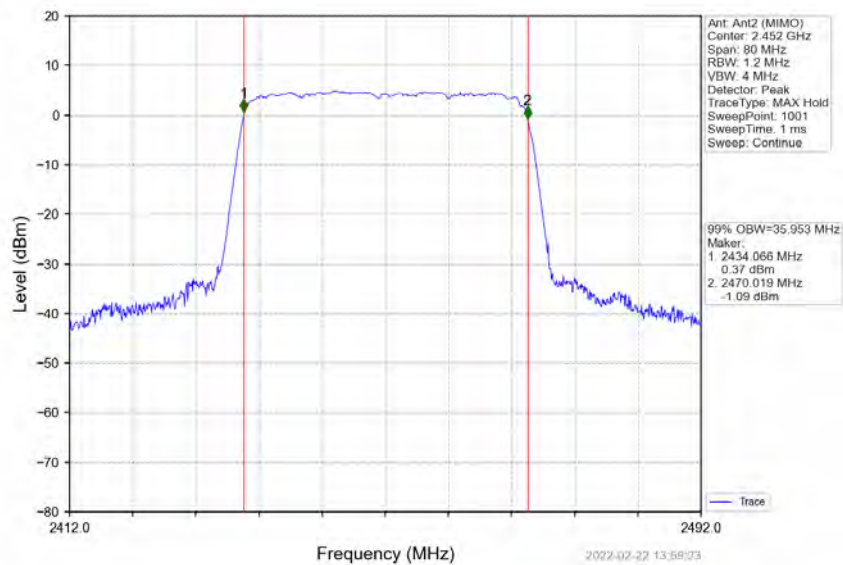
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802.11n(HT40) HCH_2452MHz_Ant1 (MIMO) NTNV



802.11n(HT40) HCH_2452MHz_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	10.094	≥ 0.5	Pass
			2	10.091	≥ 0.5	Pass
		2437	1	10.086	≥ 0.5	Pass
			2	10.092	≥ 0.5	Pass
		2462	1	10.100	≥ 0.5	Pass
			2	10.064	≥ 0.5	Pass
802.11g	SISO	2412	1	16.360	≥ 0.5	Pass
			2	15.707	≥ 0.5	Pass
		2437	1	16.382	≥ 0.5	Pass
			2	16.371	≥ 0.5	Pass
		2462	1	16.371	≥ 0.5	Pass
			2	16.366	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.562	≥ 0.5	Pass
			2	16.965	≥ 0.5	Pass
		2437	1	17.317	≥ 0.5	Pass
			2	17.048	≥ 0.5	Pass
		2462	1	17.318	≥ 0.5	Pass
			2	17.056	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.446	≥ 0.5	Pass
			2	35.130	≥ 0.5	Pass
		2437	1	35.205	≥ 0.5	Pass
			2	35.139	≥ 0.5	Pass
		2452	1	35.669	≥ 0.5	Pass
			2	35.110	≥ 0.5	Pass



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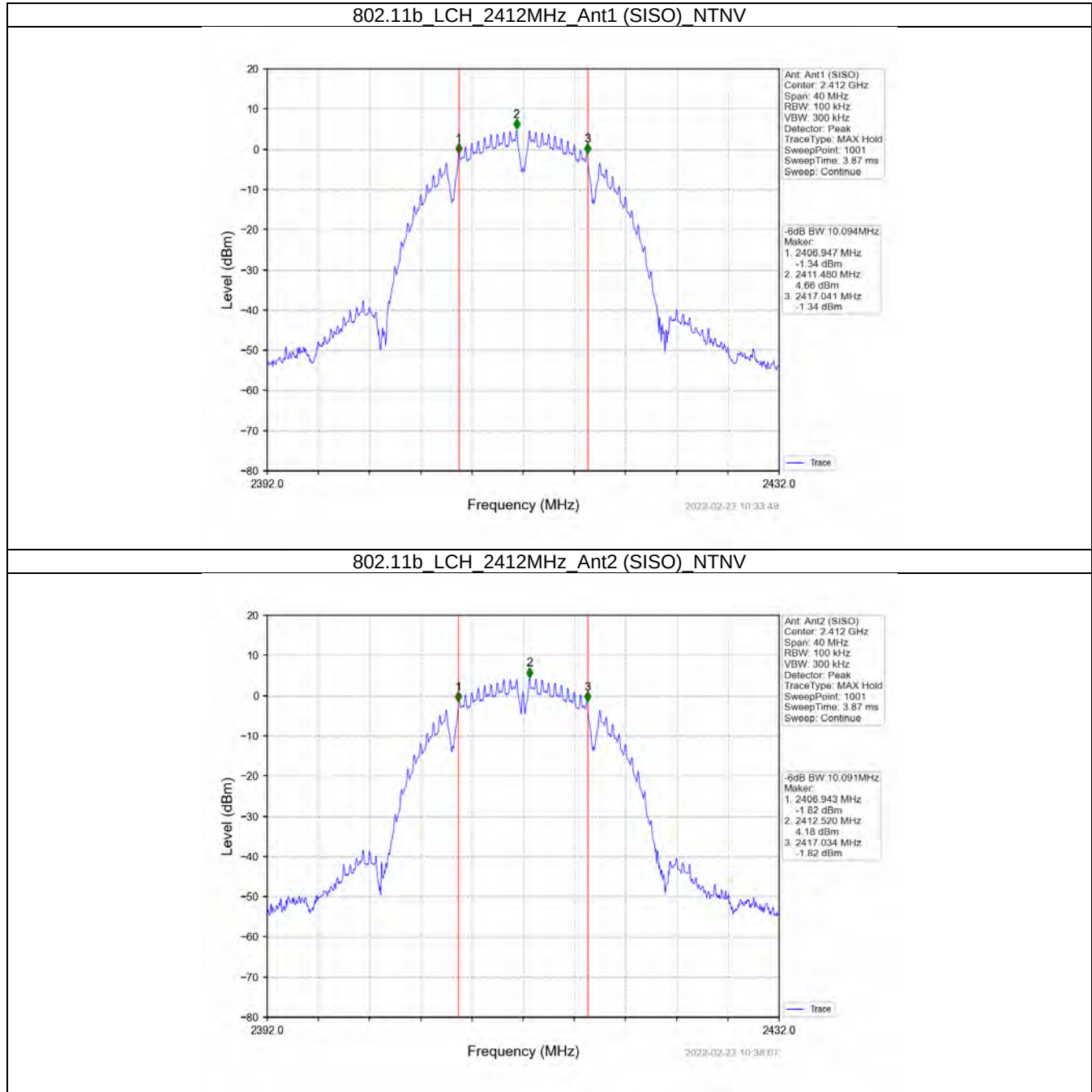
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2.2.2 Test Graph



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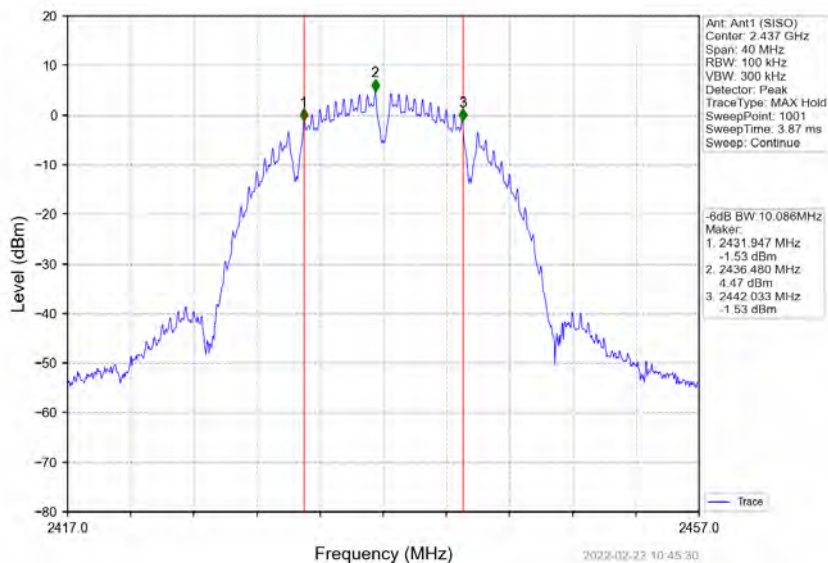
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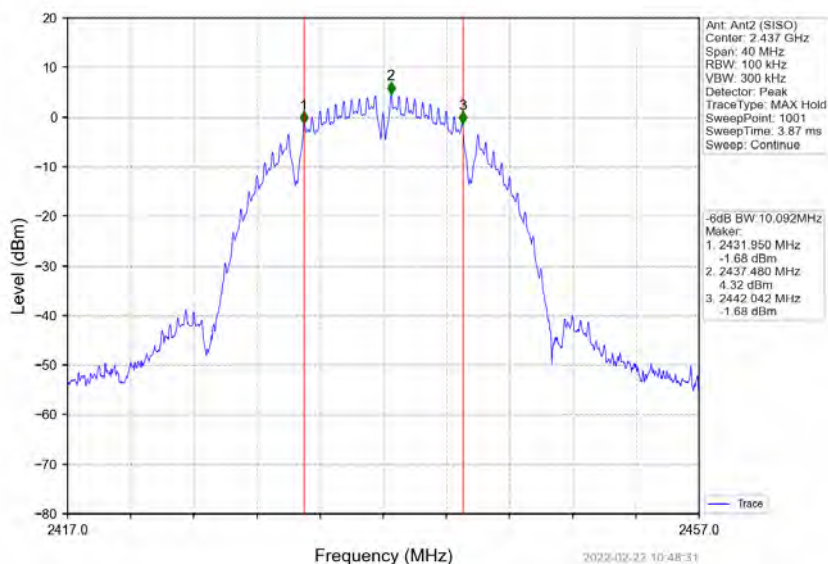
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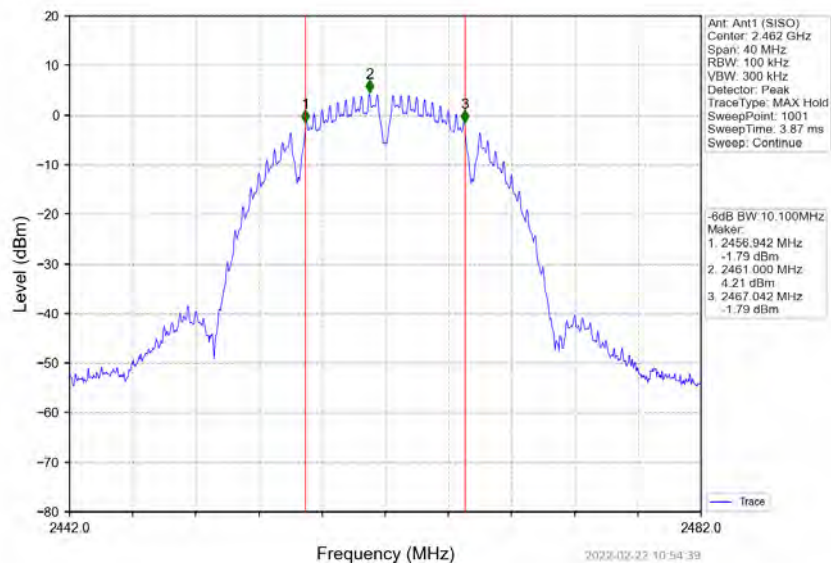
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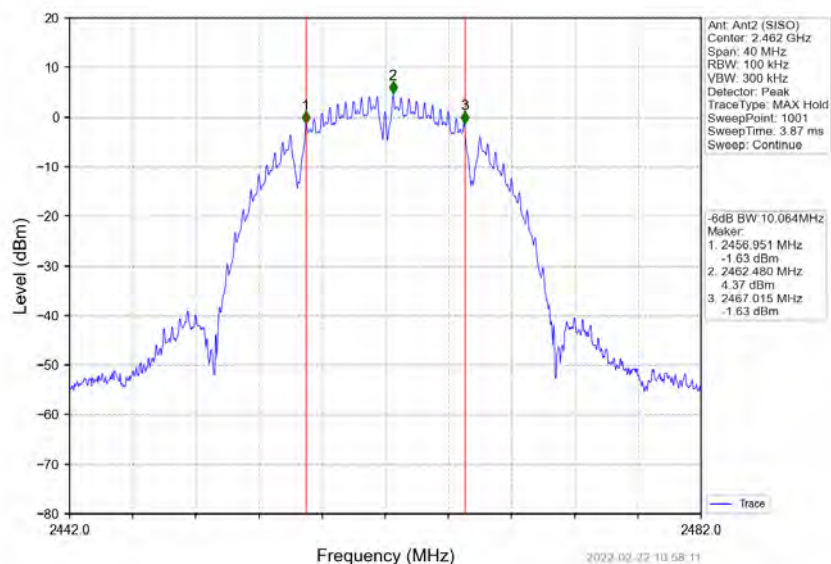
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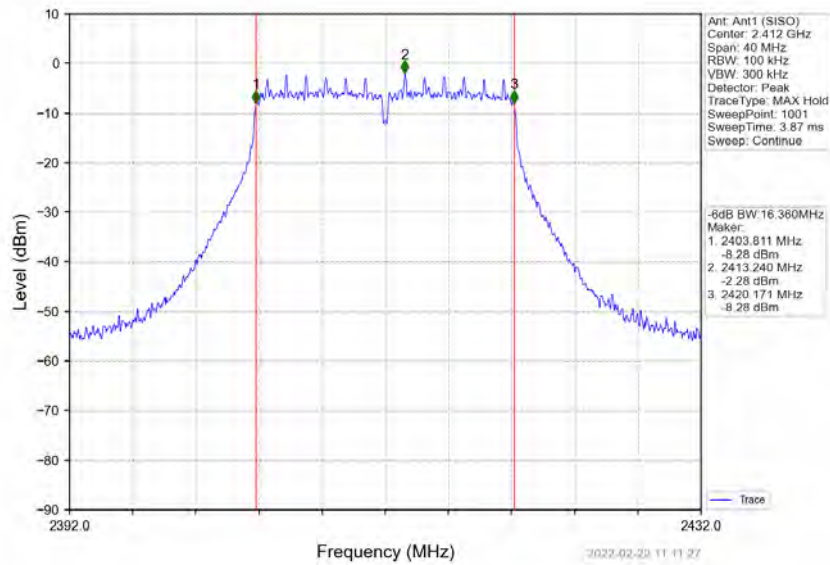
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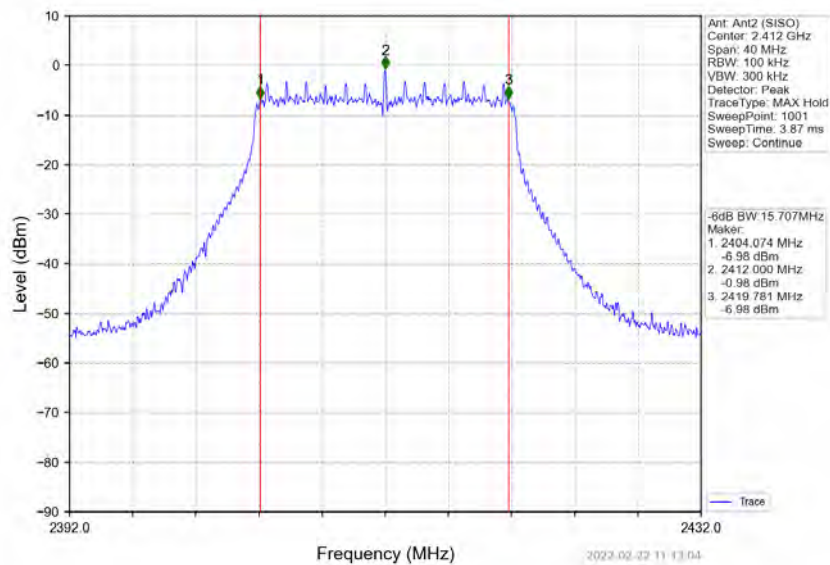
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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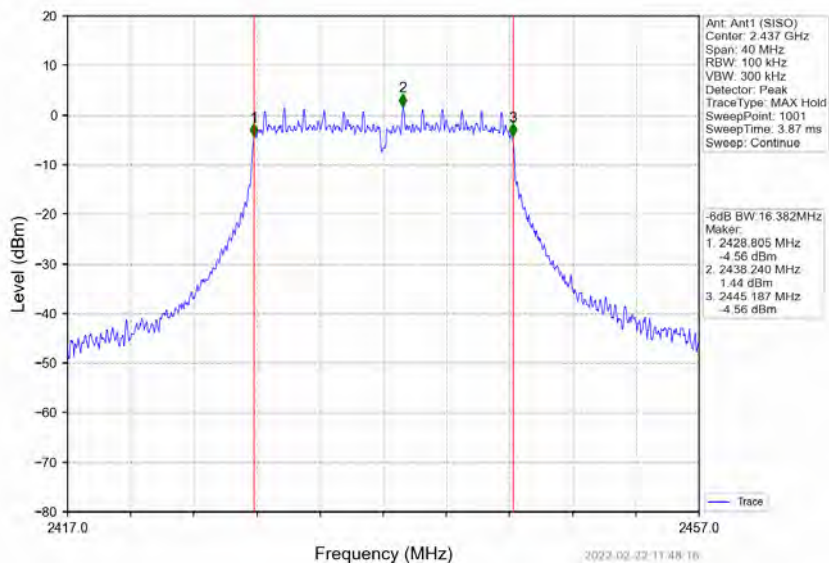
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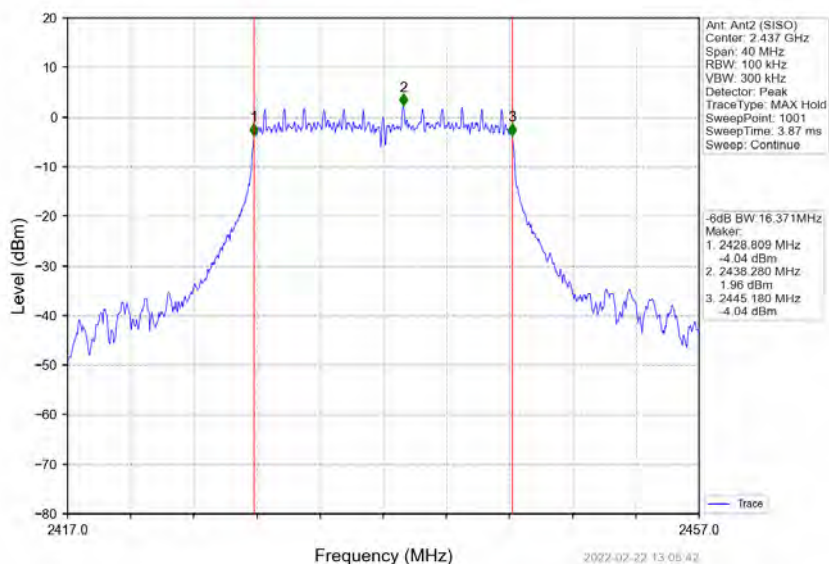
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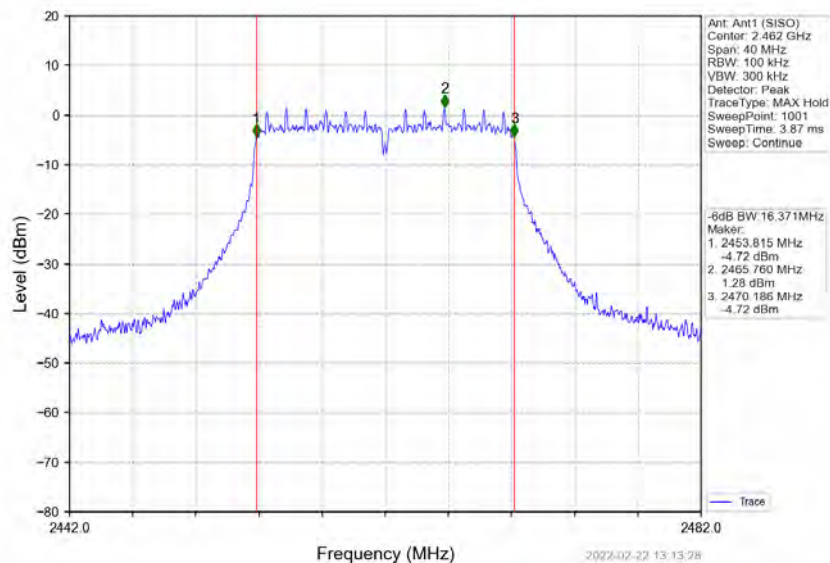
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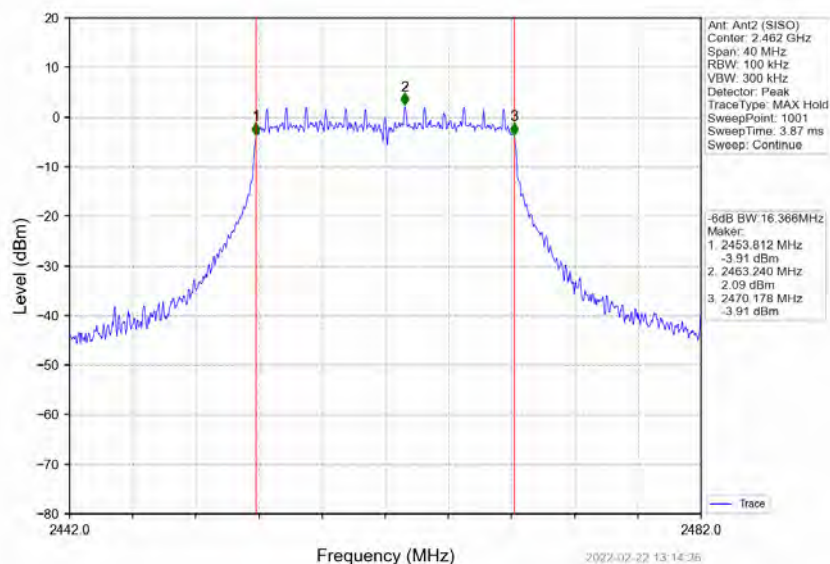
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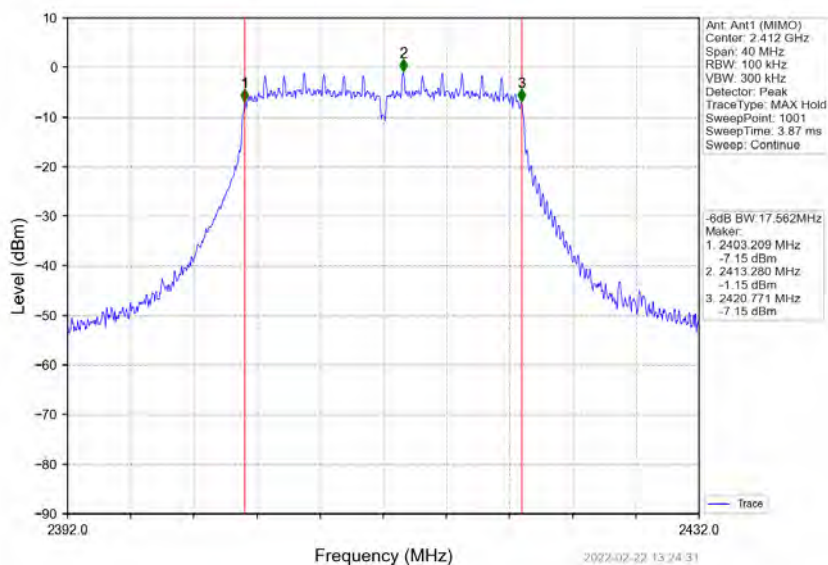
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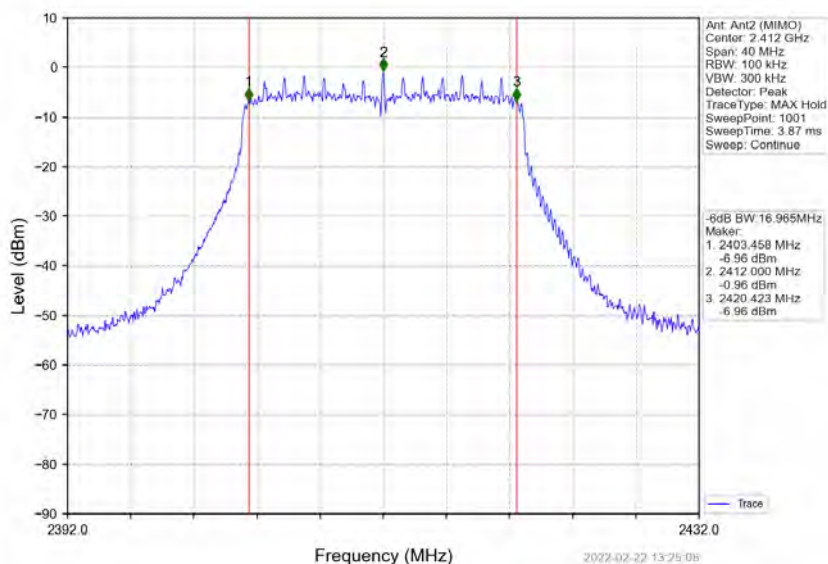
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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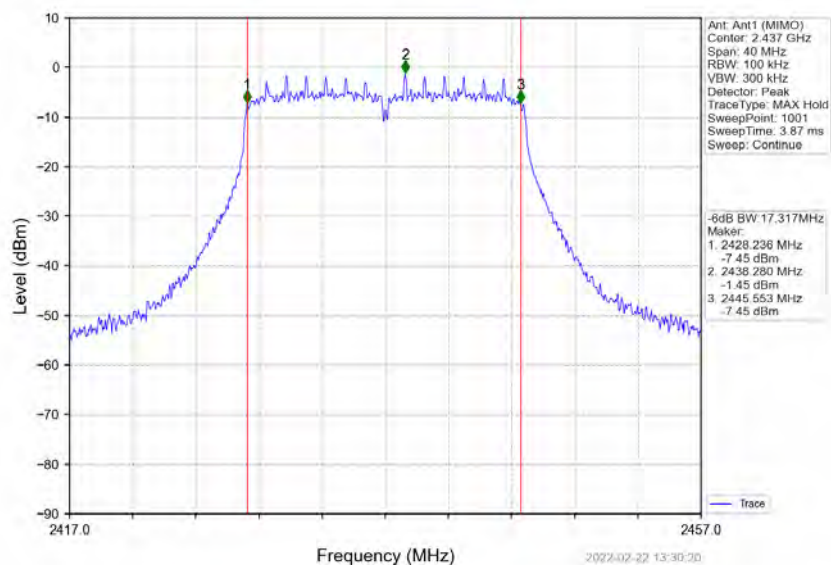
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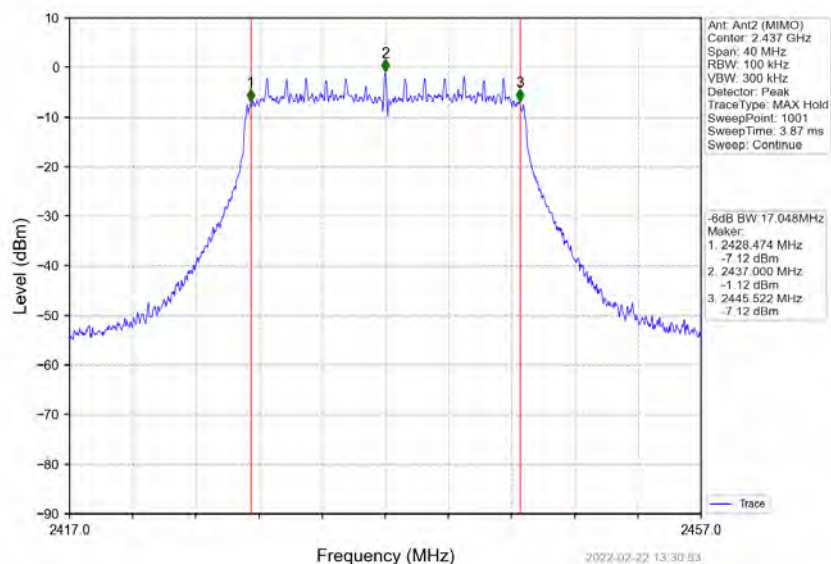
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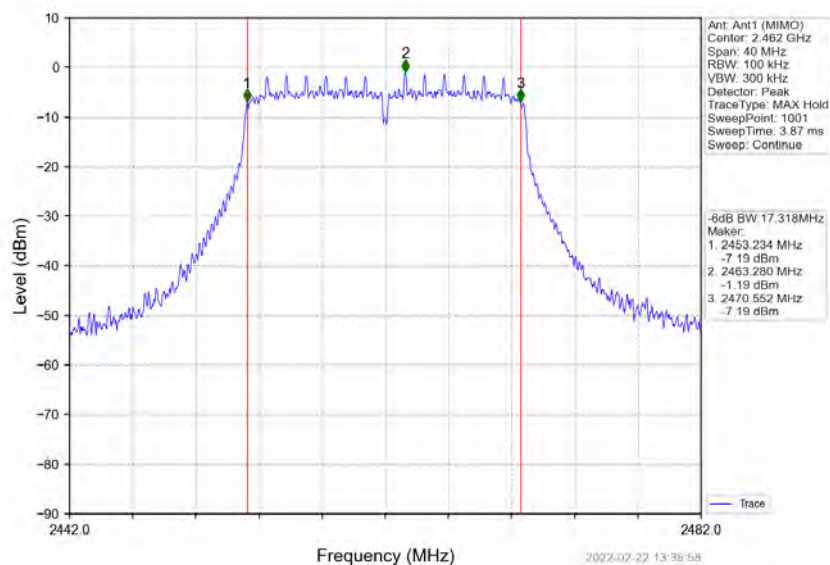
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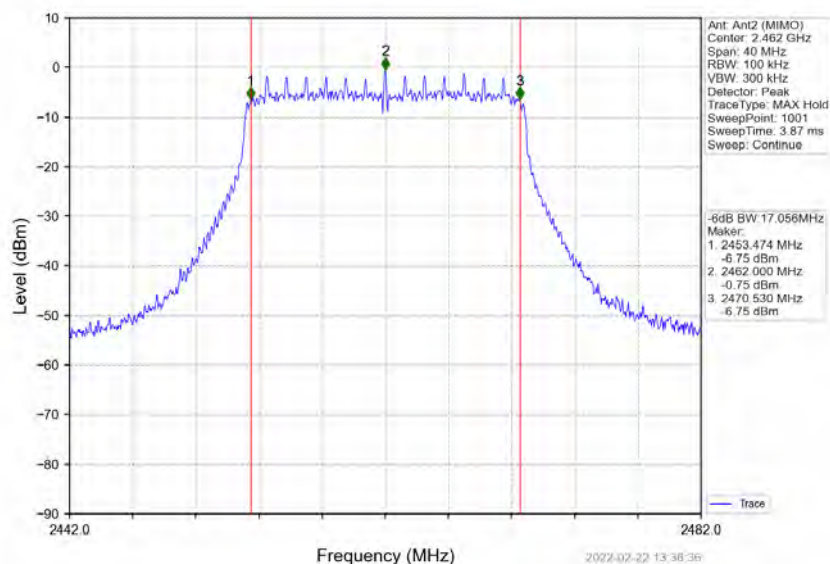
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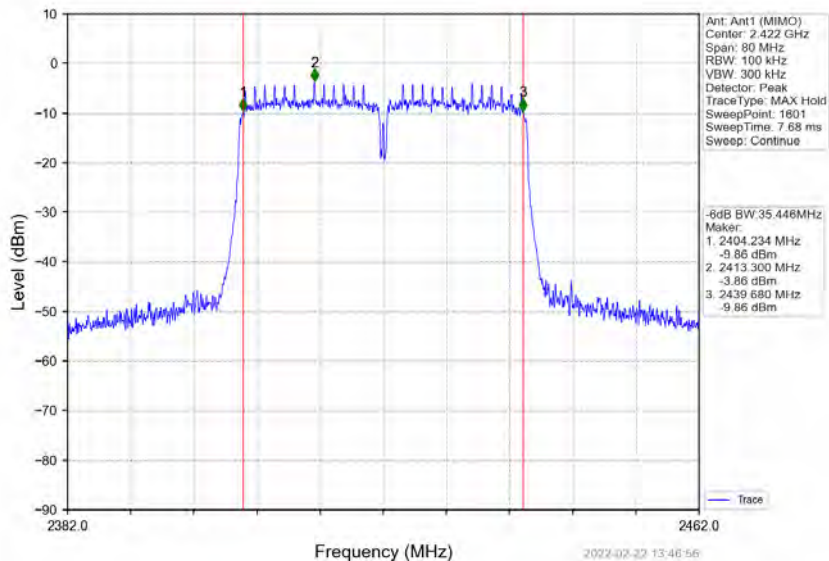
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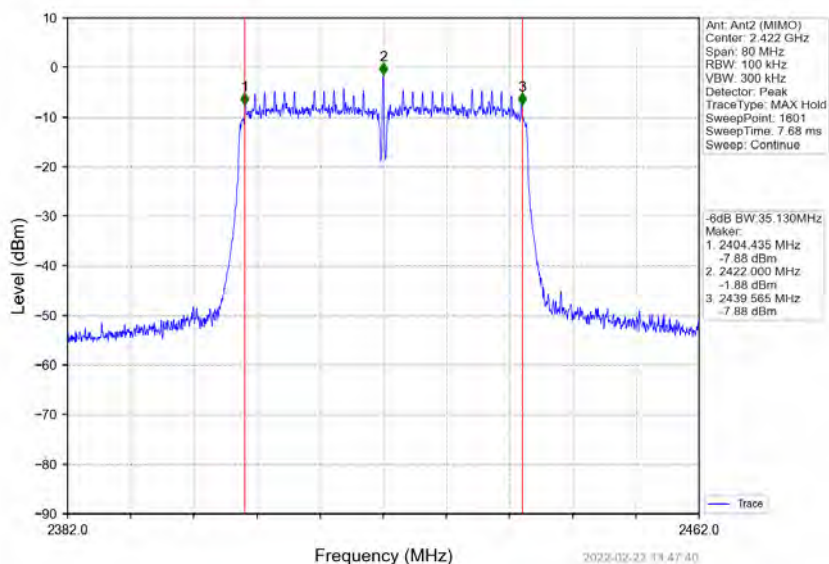
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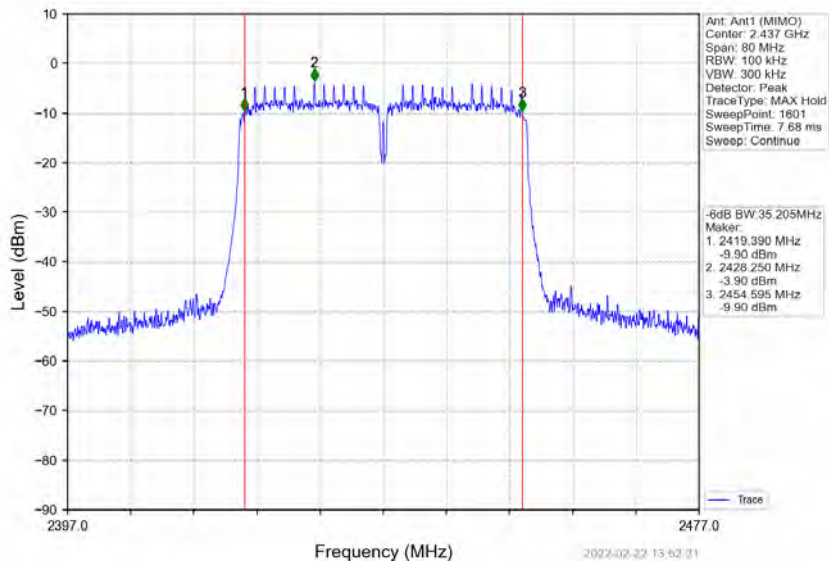
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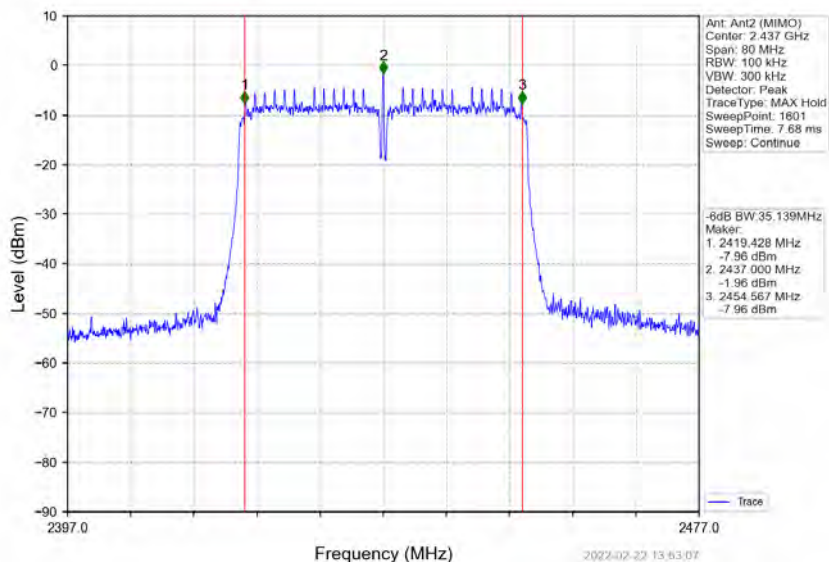
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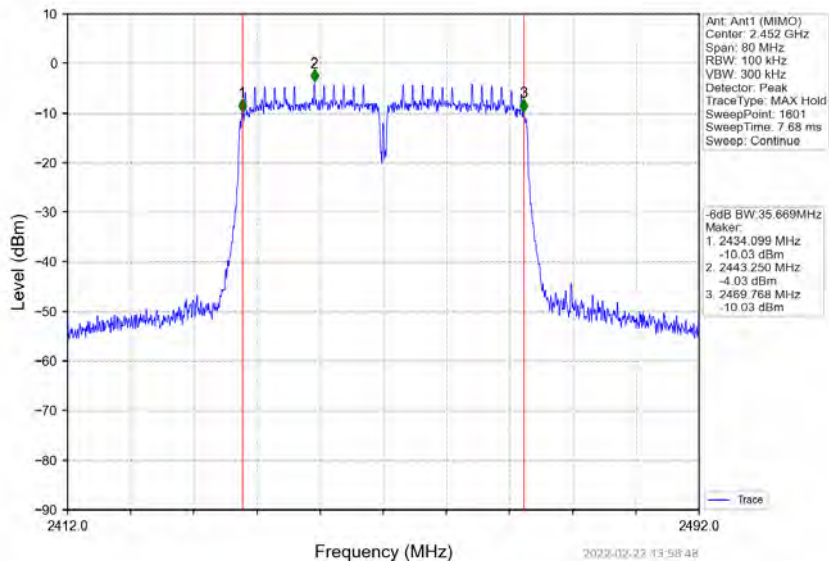
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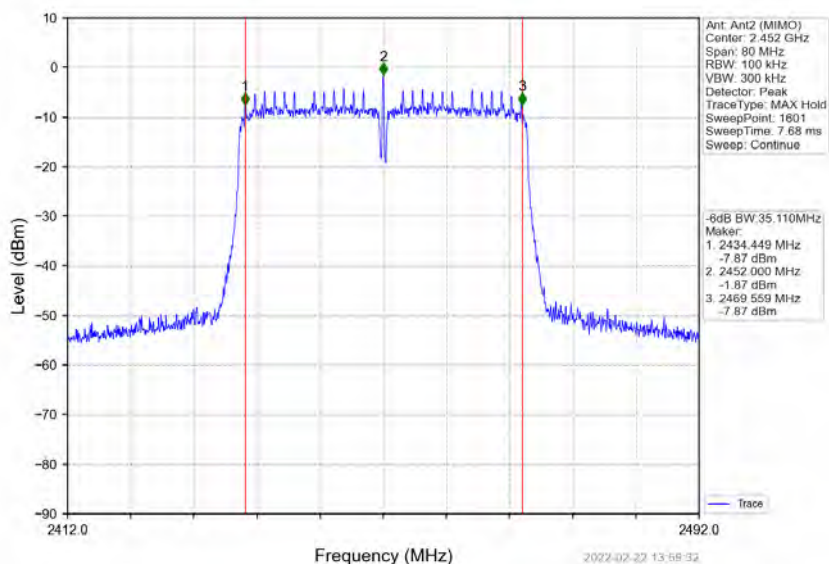
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3. Maximum Conducted Output Power

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	13.34	13.15	/	<=30	Pass
		2437	13.16	13.14	/	<=30	Pass
		2462	12.87	13.09	/	<=30	Pass
802.11g	SISO	2412	13.01	13.43	/	<=30	Pass
		2437	12.71	13.30	/	<=30	Pass
		2462	12.68	13.44	/	<=30	Pass
802.11n (HT20)	MIMO	2412	10.05	9.75	12.91	<=29.28	Pass
		2437	9.69	9.63	12.67	<=29.28	Pass
		2462	10.00	10.11	13.07	<=29.28	Pass
802.11n (HT40)	MIMO	2422	10.30	10.60	13.46	<=29.28	Pass
		2437	10.21	10.21	13.22	<=29.28	Pass
		2452	10.13	10.20	13.18	<=29.28	Pass

Note1: Antenna Gain: Ant1: 2.38dBi; Ant2: 4.86dBi;
Note2: Directional Gain: 6.72dBi



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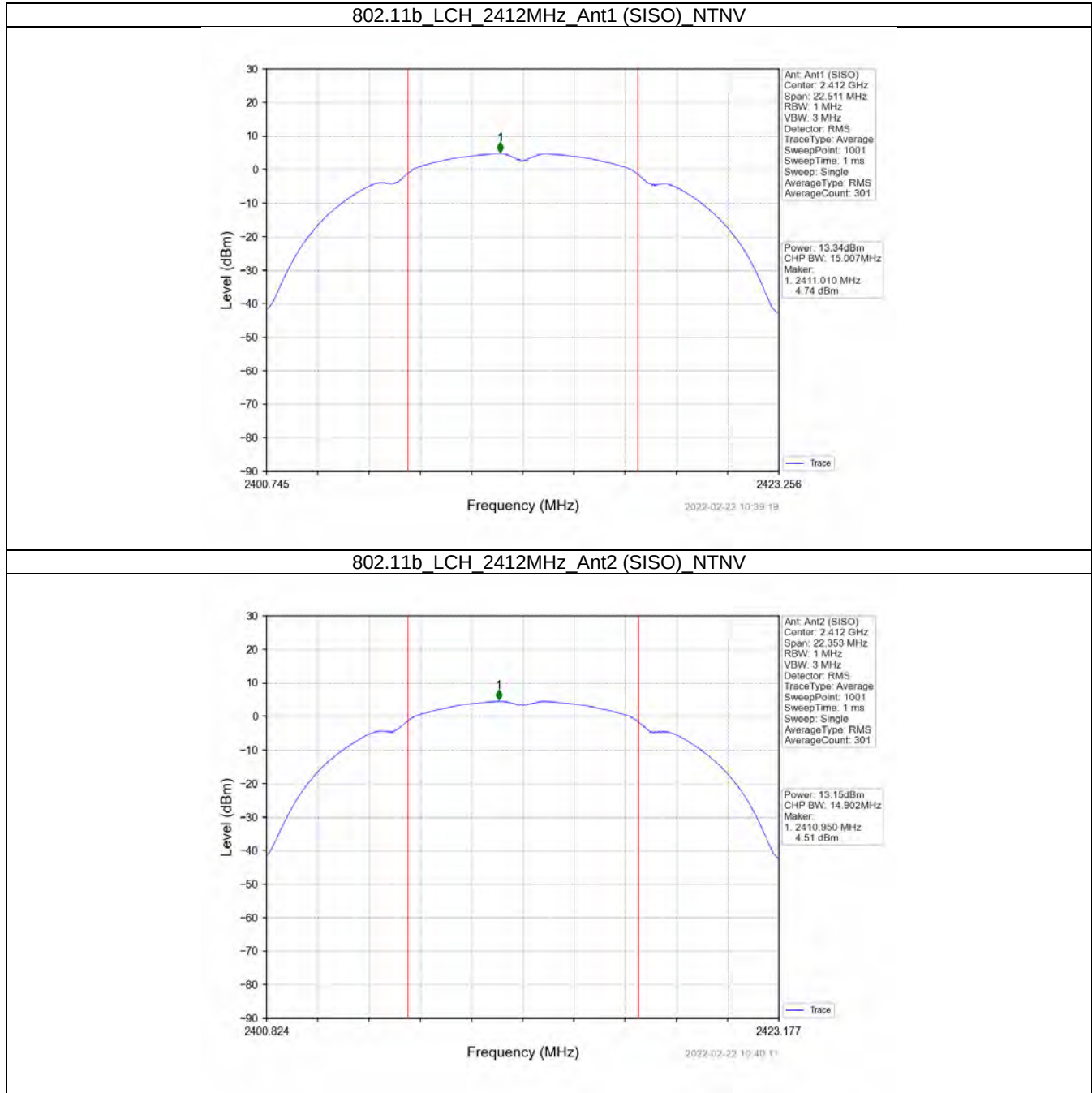
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3.1.2 Test Graph



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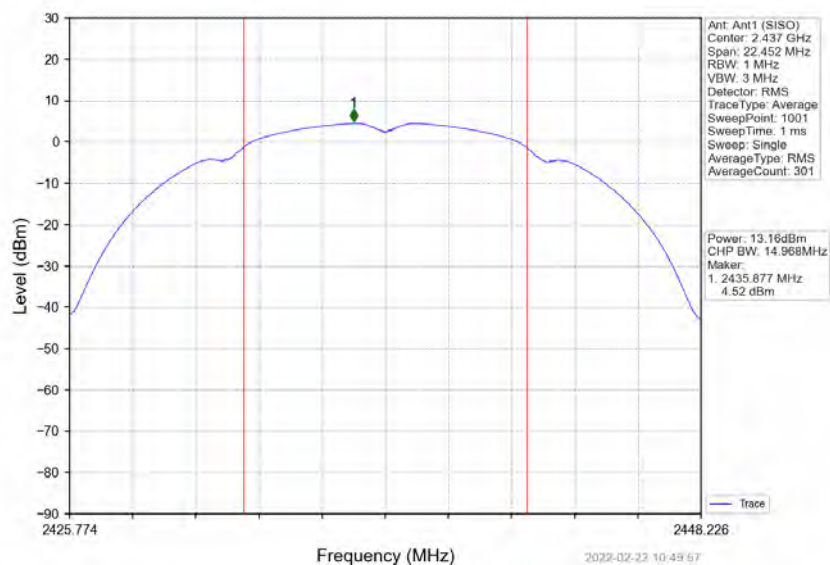
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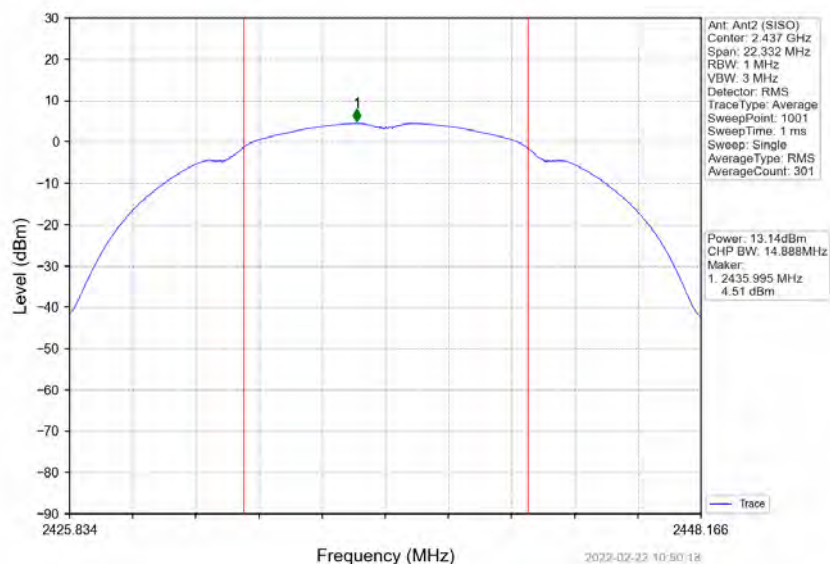
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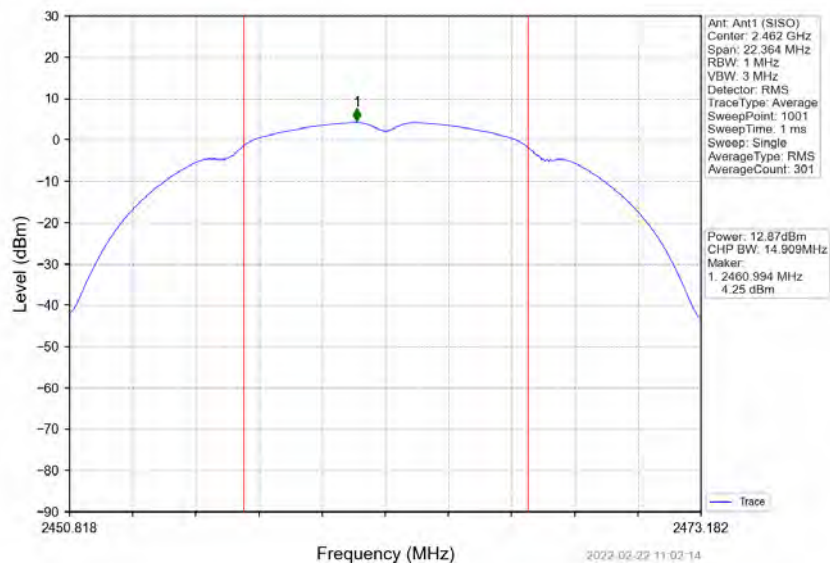
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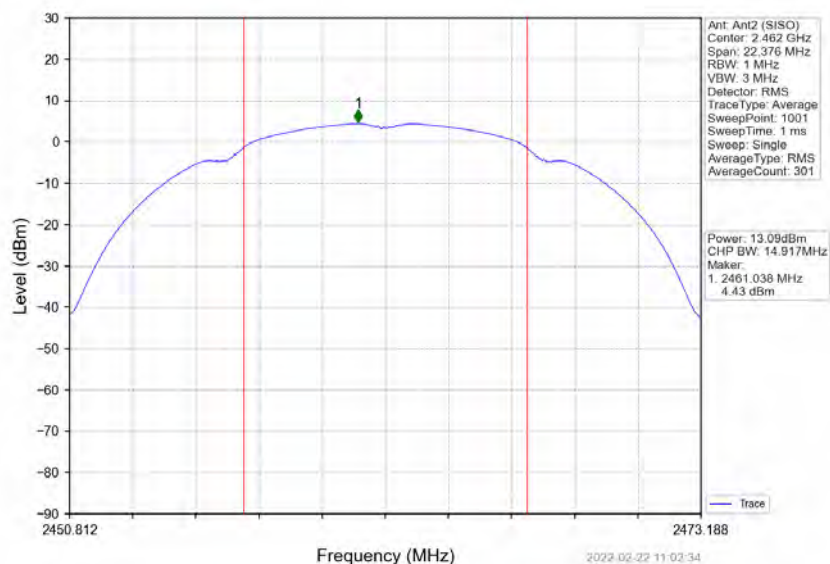
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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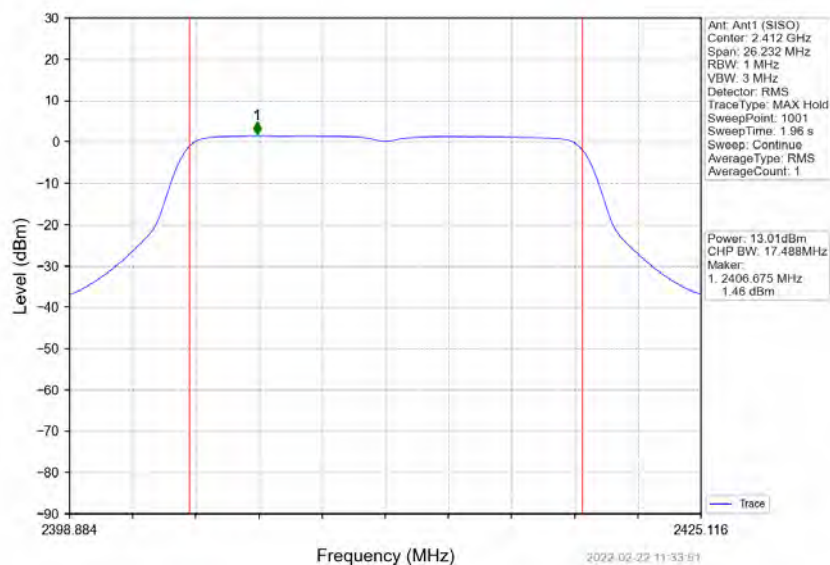
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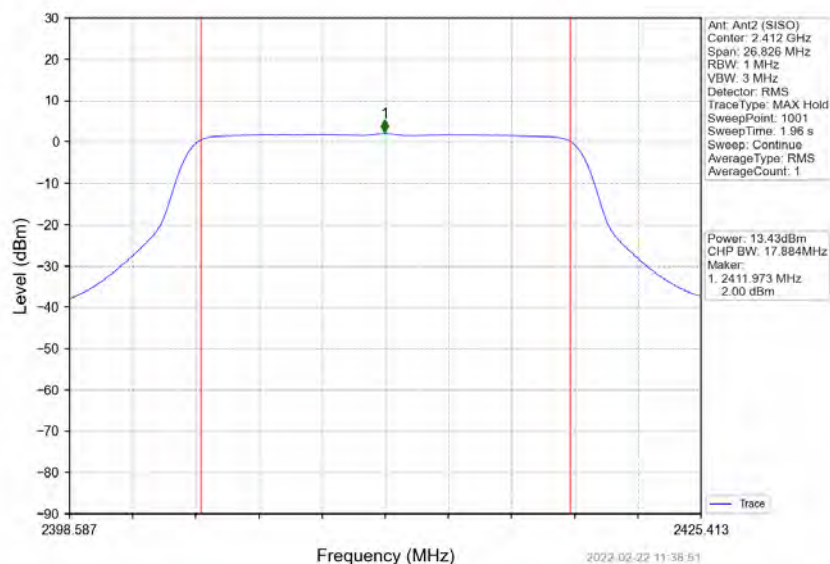
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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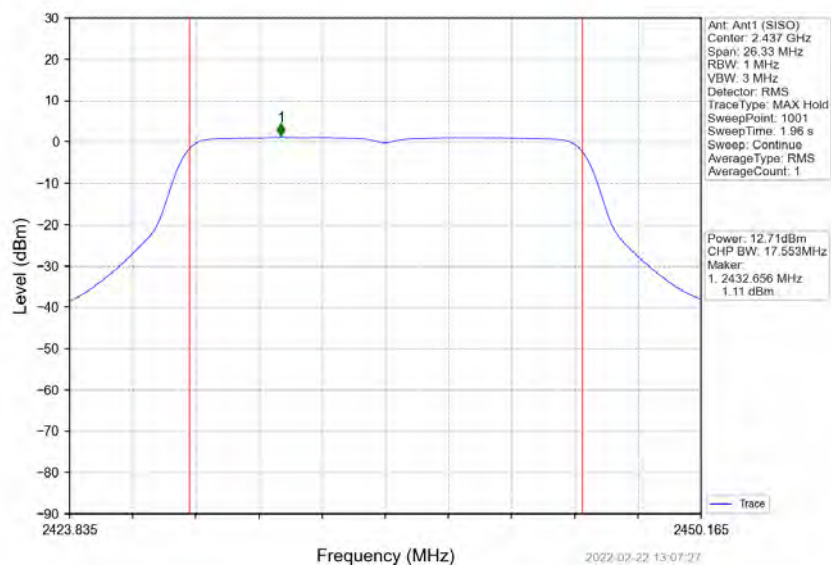
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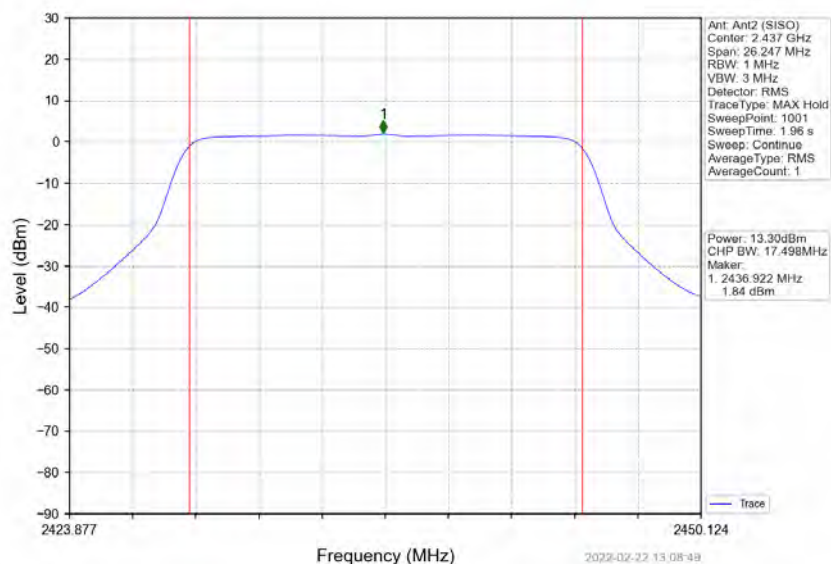
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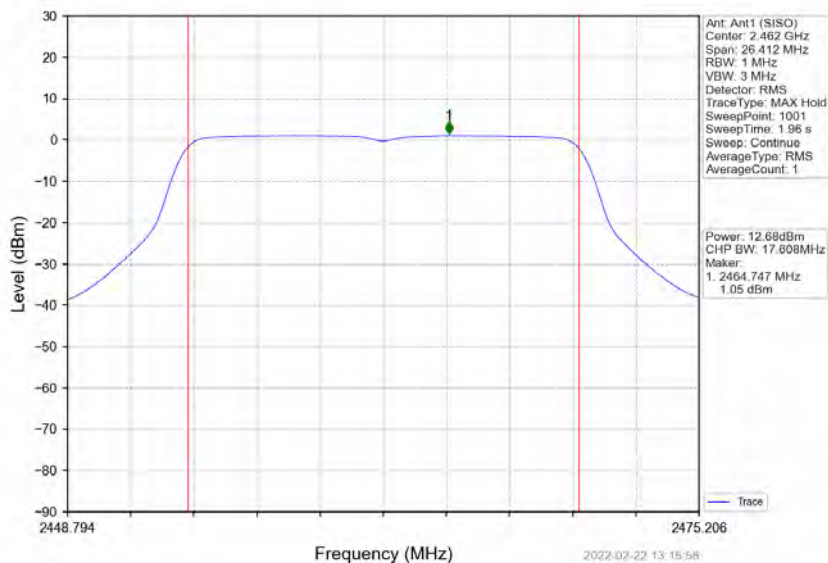
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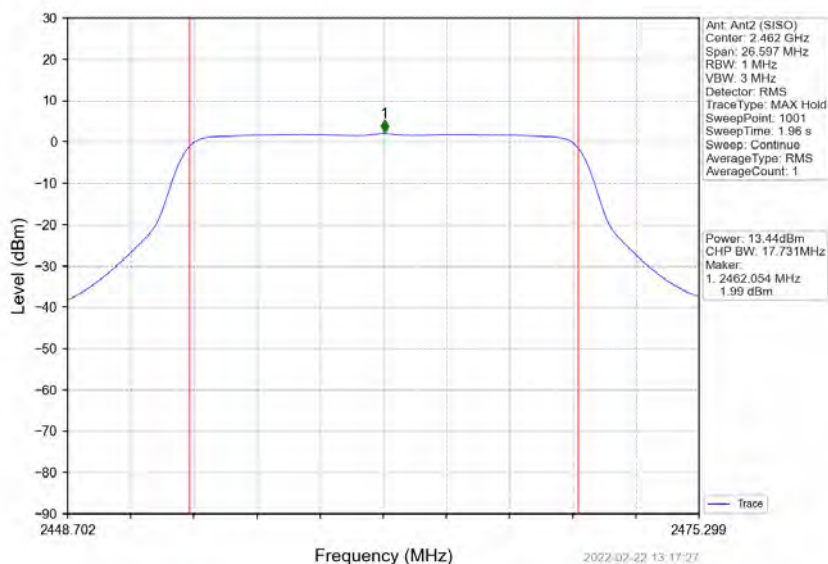
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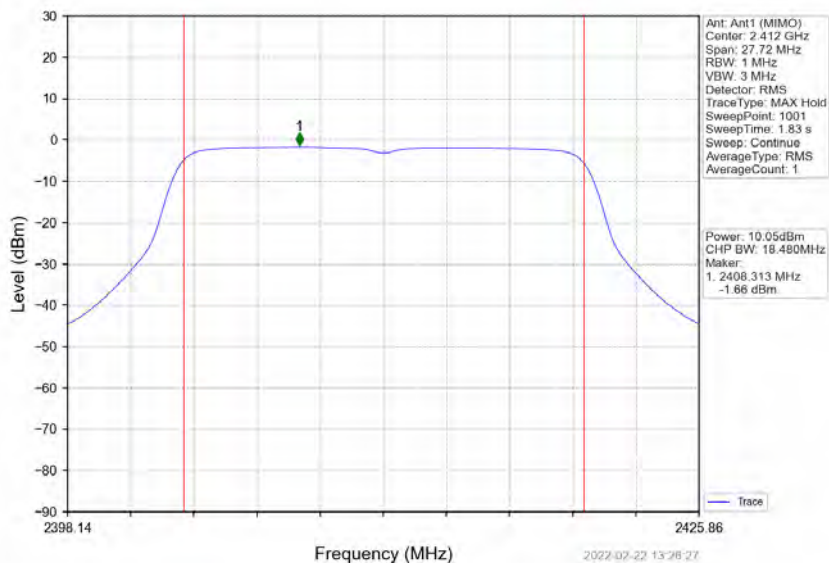
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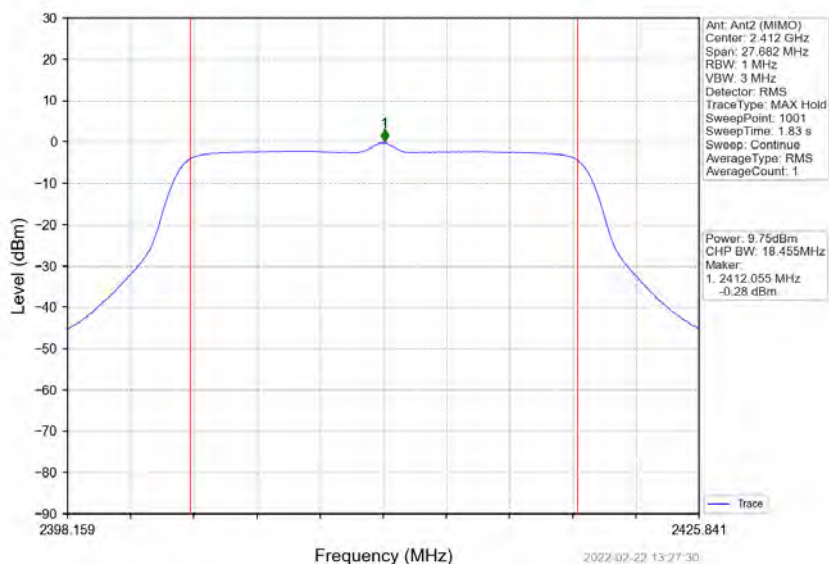
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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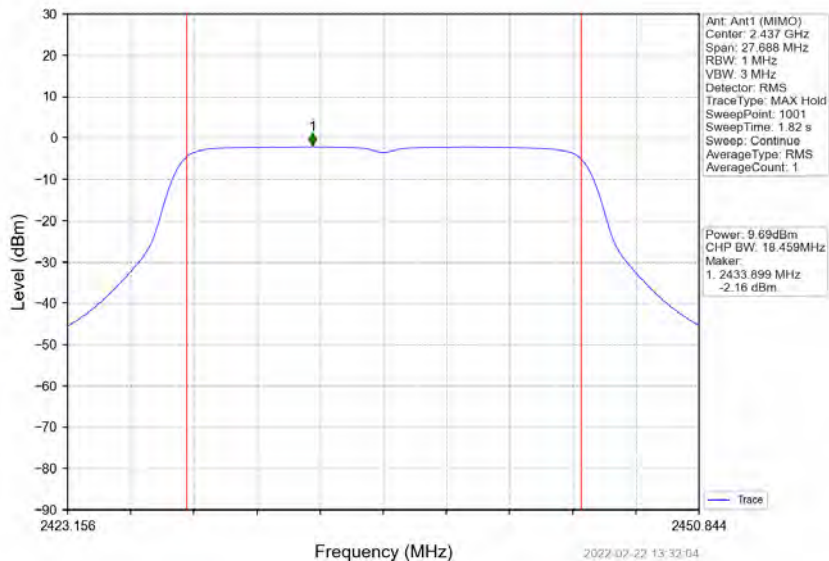
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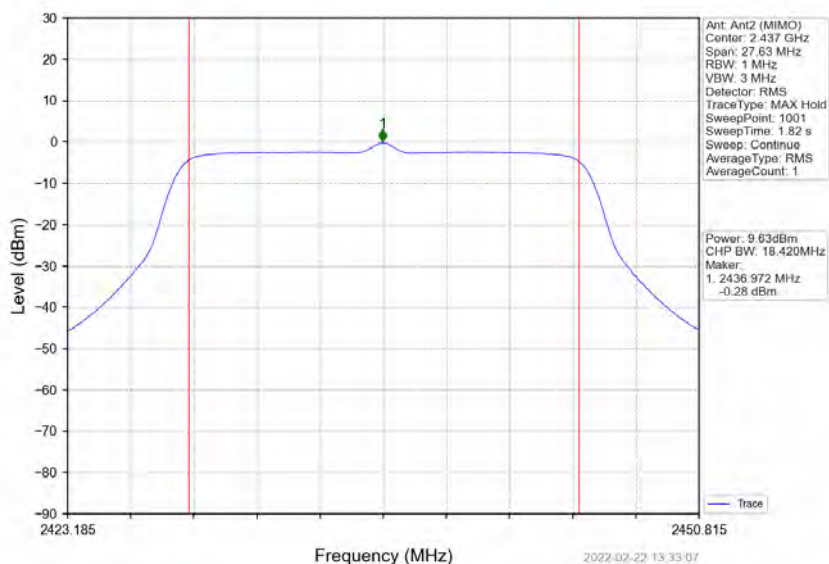
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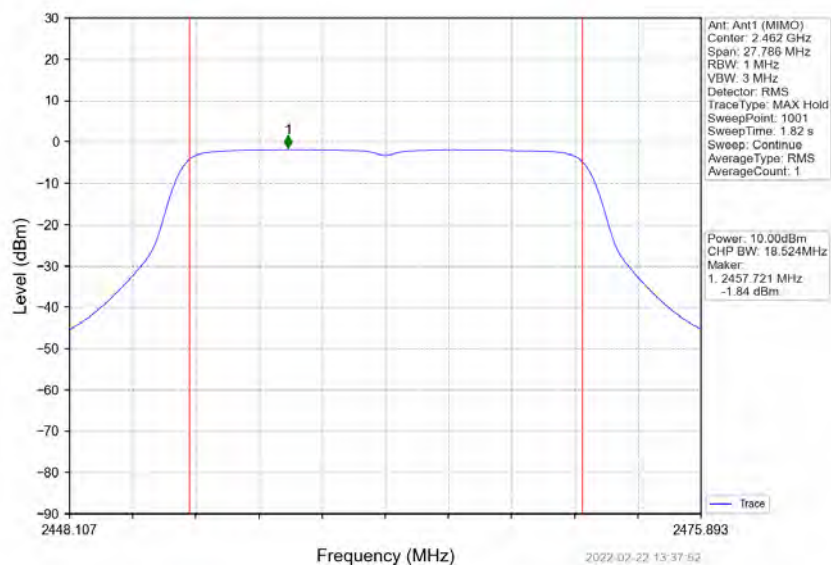
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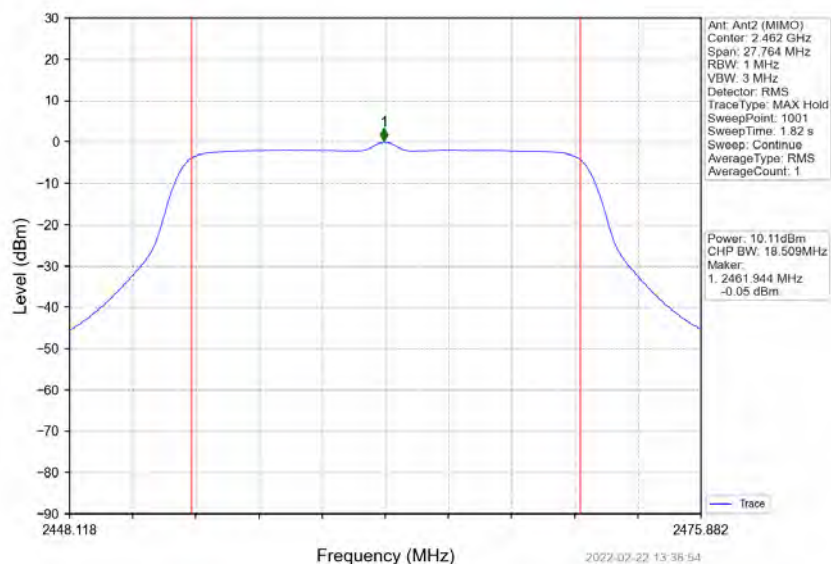
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802.11n(HT20) HCH 2462MHz_Ant2 (MIMO) NTNV



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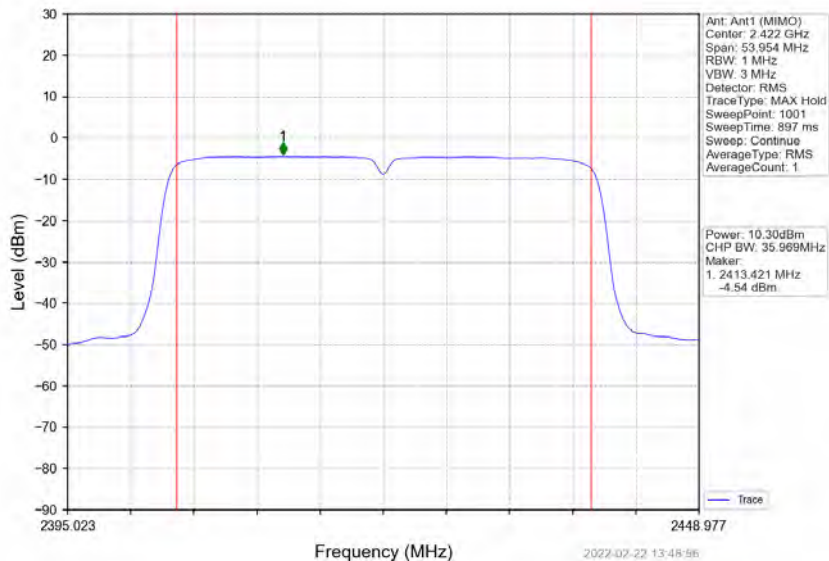
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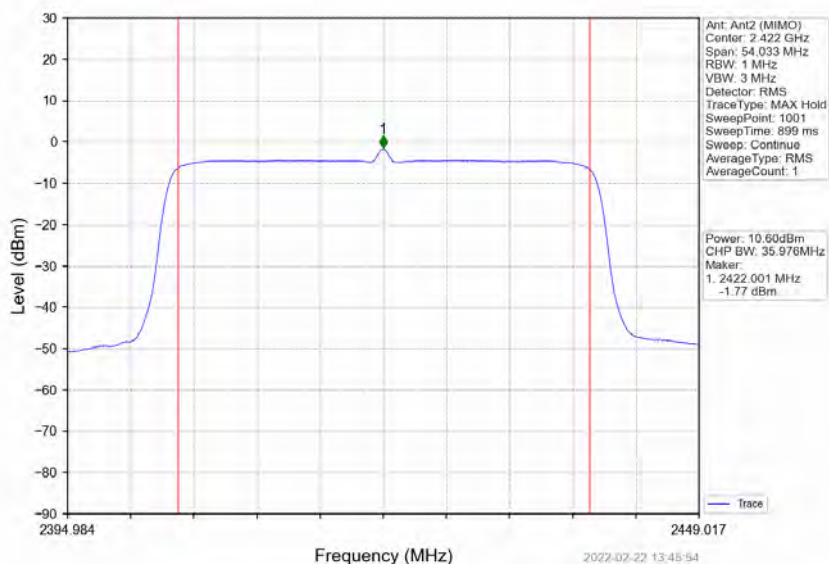
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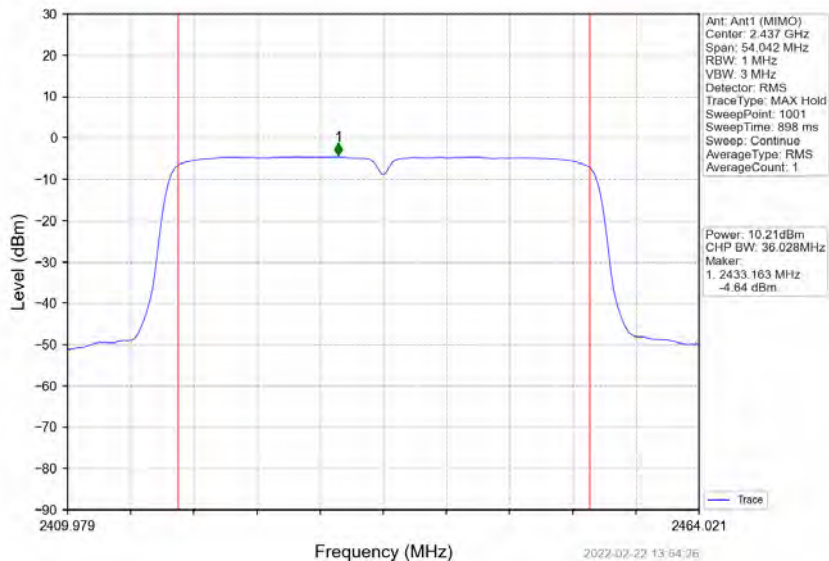
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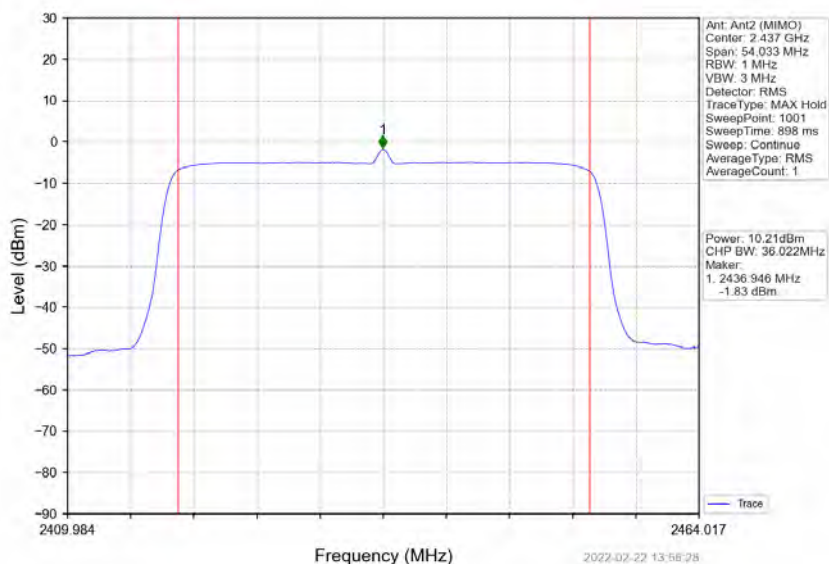
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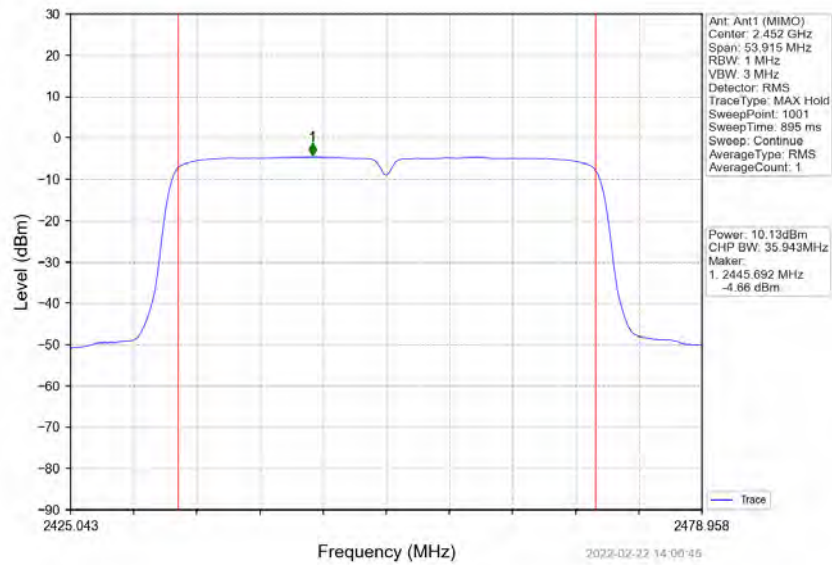
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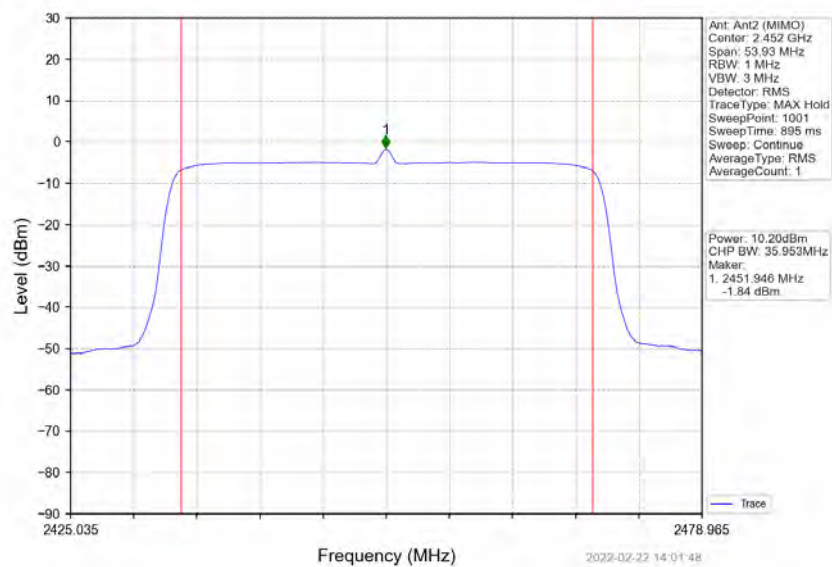
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4. Maximum Power Spectral Density

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	-9.22	-2.66	/	<=8	Pass
		2437	-10.09	-2.63	/	<=8	Pass
		2462	-10.16	-2.60	/	<=8	Pass
802.11g	SISO	2412	-10.13	-2.50	/	<=8	Pass
		2437	-10.27	-2.58	/	<=8	Pass
		2462	-10.30	-2.46	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.68	-2.55	-2.29	<=7.28	Pass
		2437	-14.87	-2.59	-2.34	<=7.28	Pass
		2462	-14.39	-2.49	-2.25	<=7.28	Pass
802.11n (HT40)	MIMO	2422	-14.67	-2.51	-2.25	<=7.28	Pass
		2437	-14.59	-2.48	-2.22	<=7.28	Pass
		2452	-14.68	-2.45	-2.20	<=7.28	Pass

Note1: Antenna Gain: Ant1: 2.38dBi; Ant2: 4.86dBi;
Note2: Directional Gain: 6.72dBi



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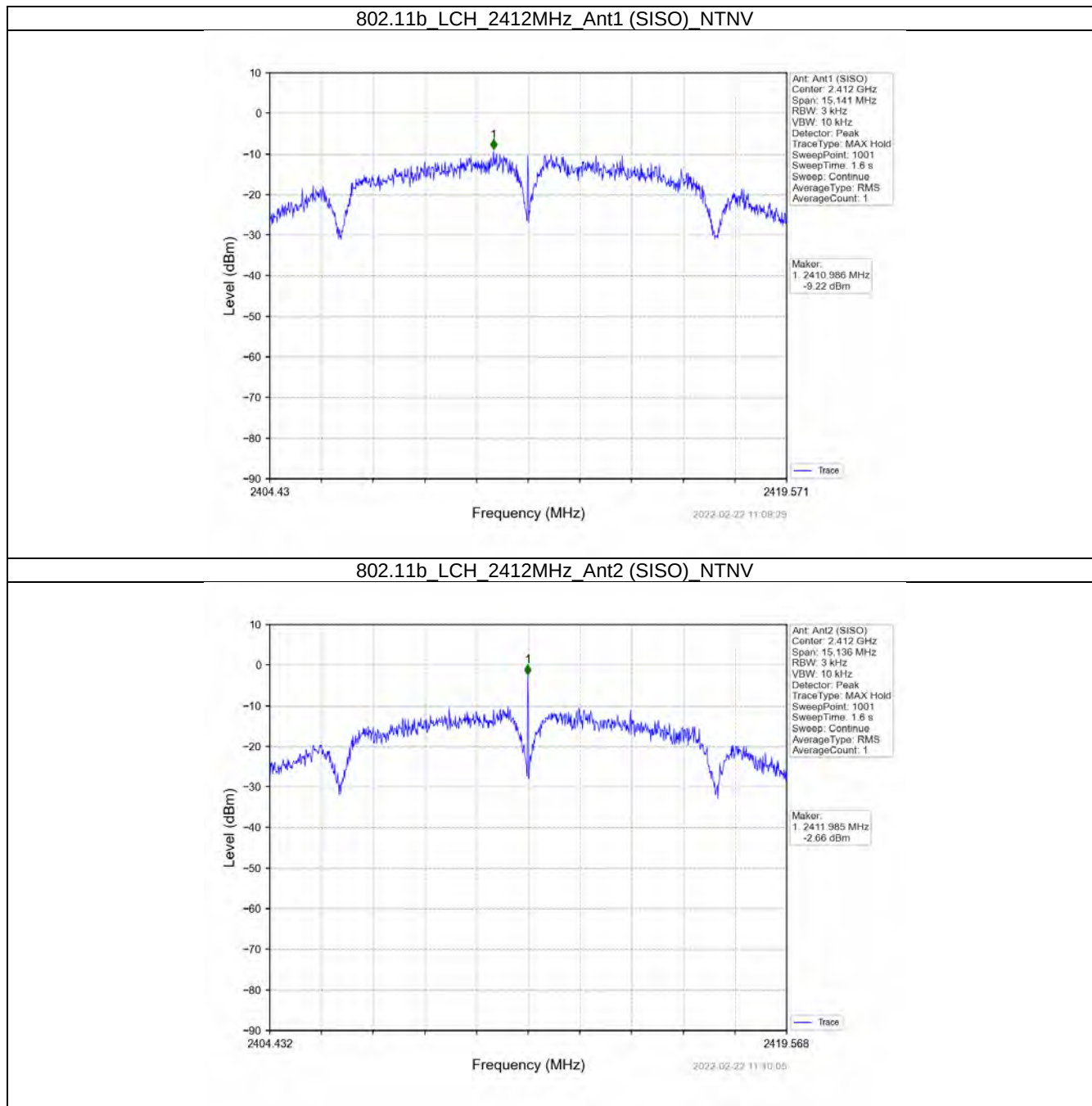
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4.1.2 Test Graph



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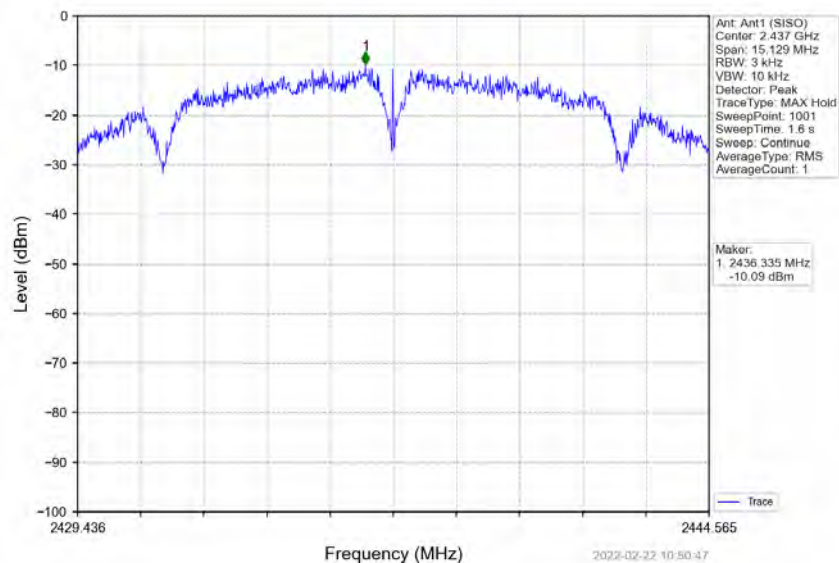
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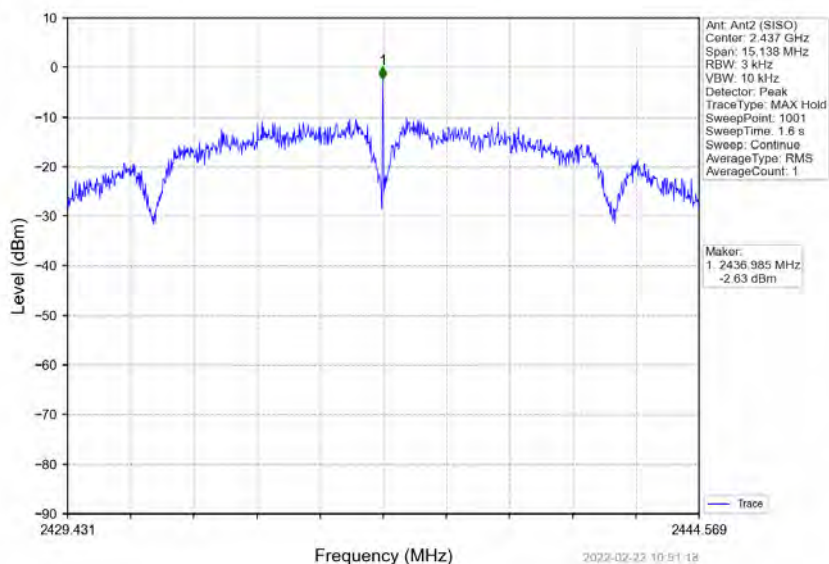
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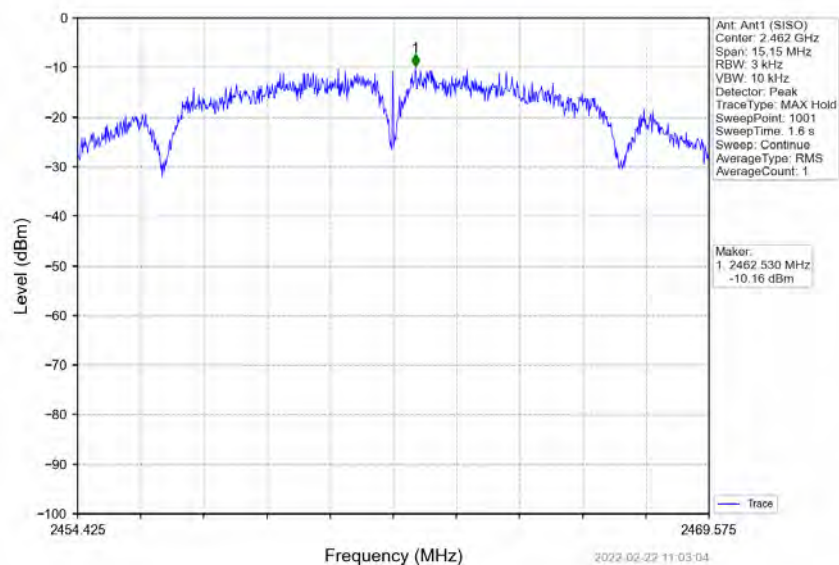
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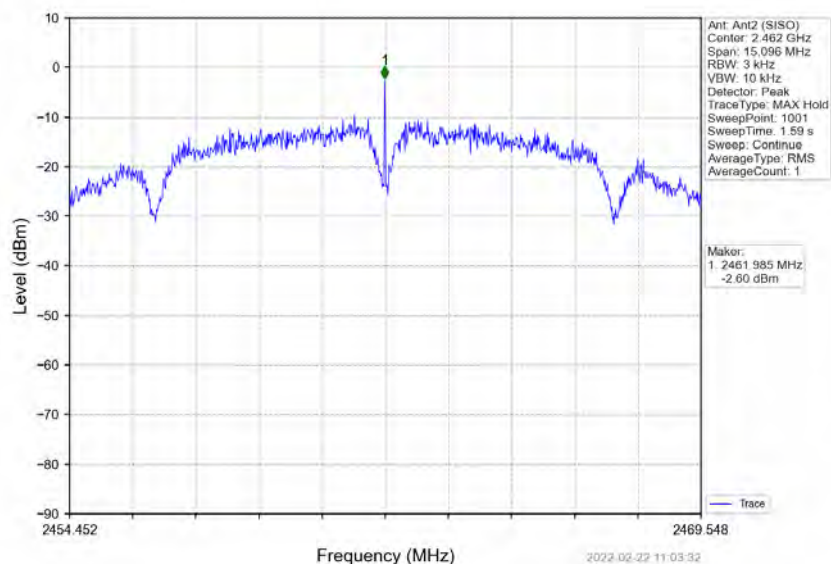
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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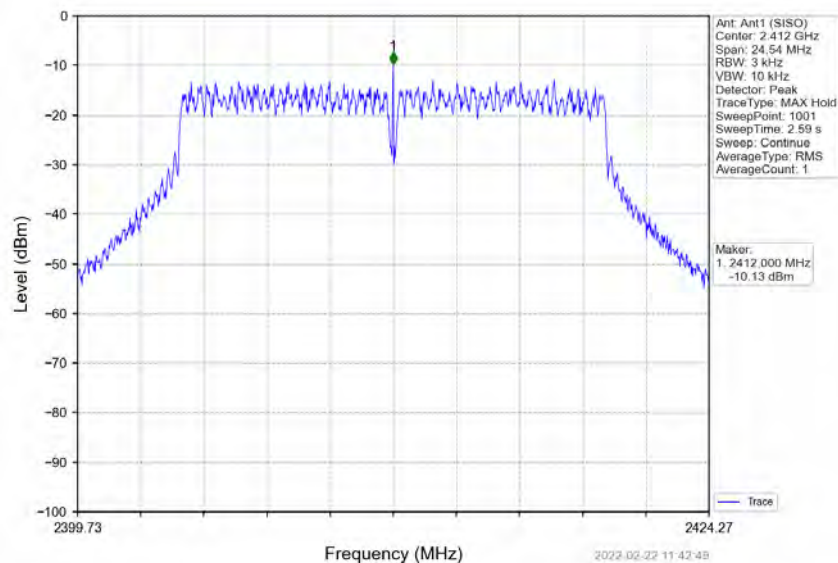
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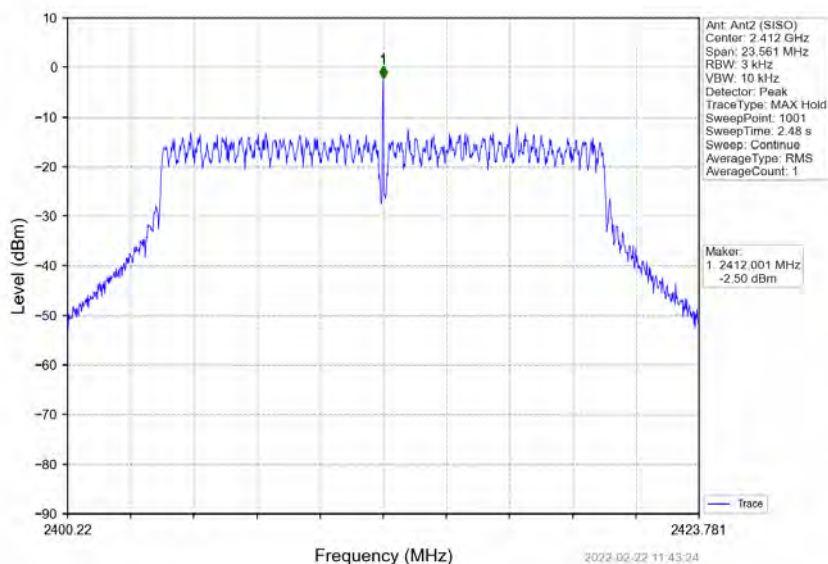
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802.11g LCH 2412MHz_Ant1 (SISO) NTN



802.11g LCH 2412MHz_Ant2 (SISO) NTN



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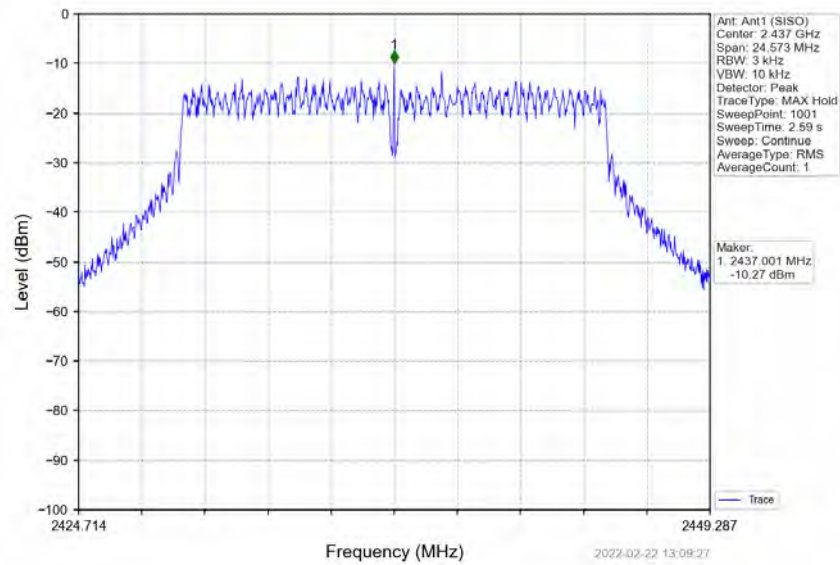
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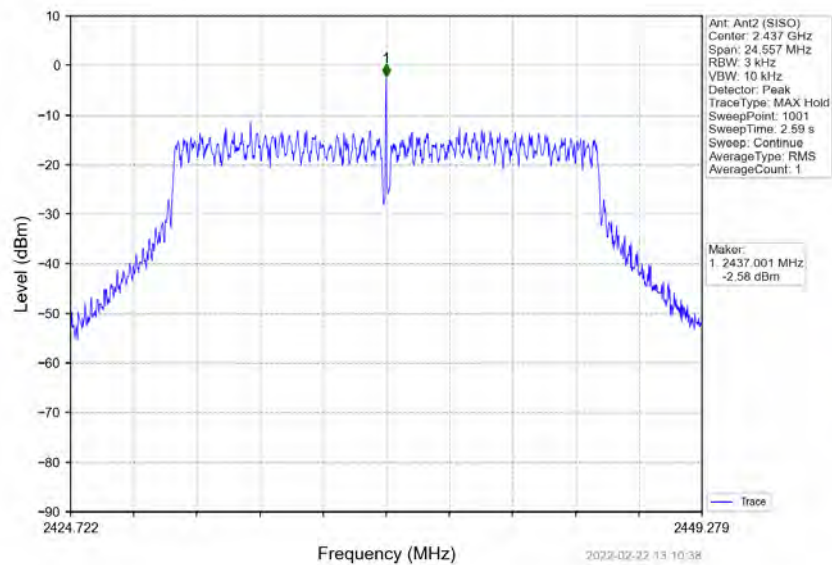
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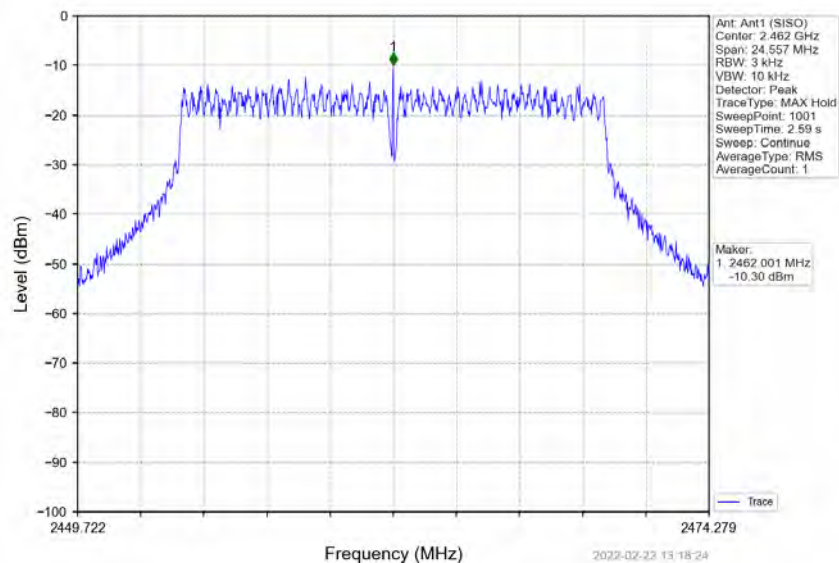
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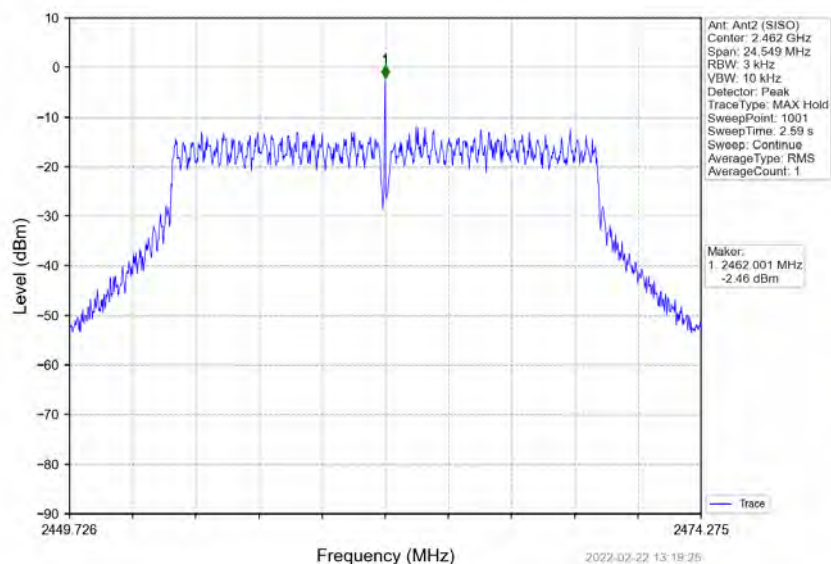
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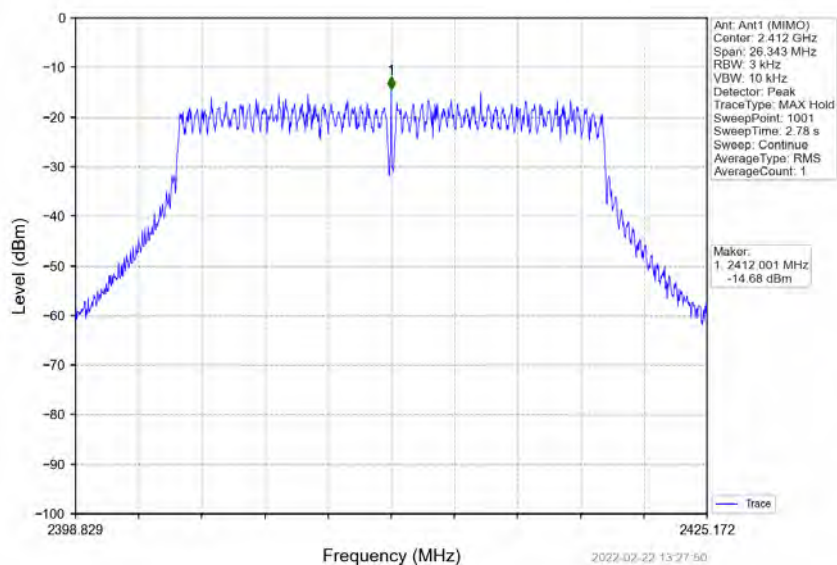
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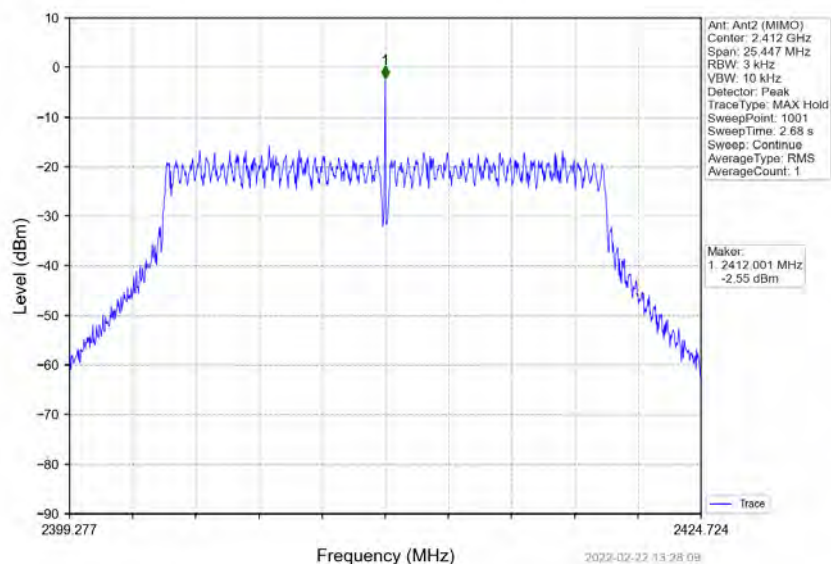
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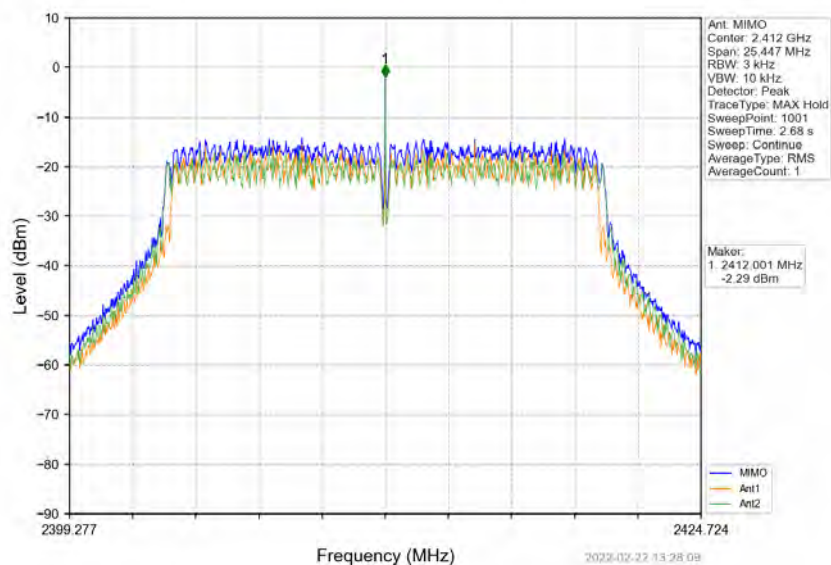
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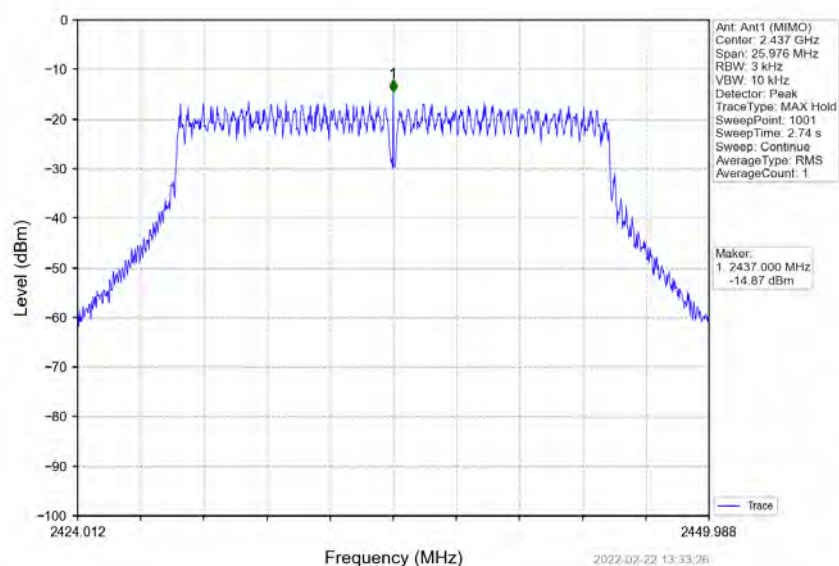
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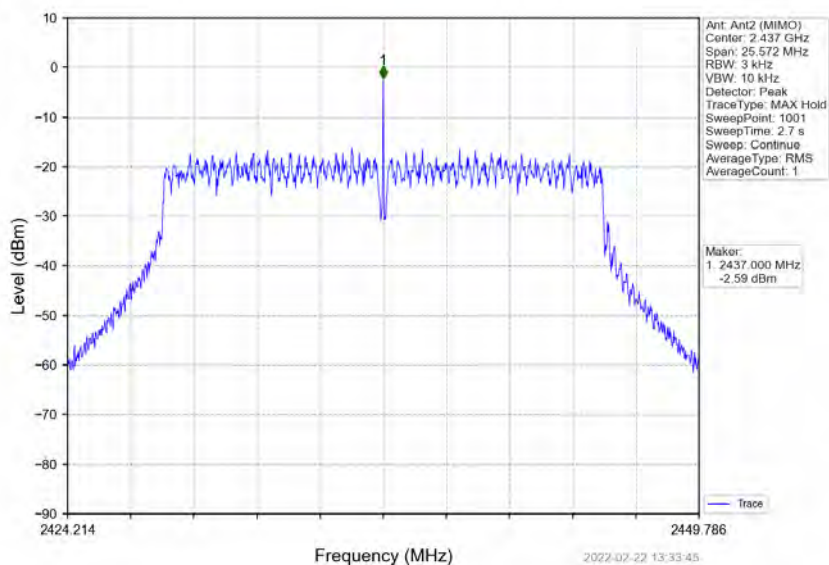
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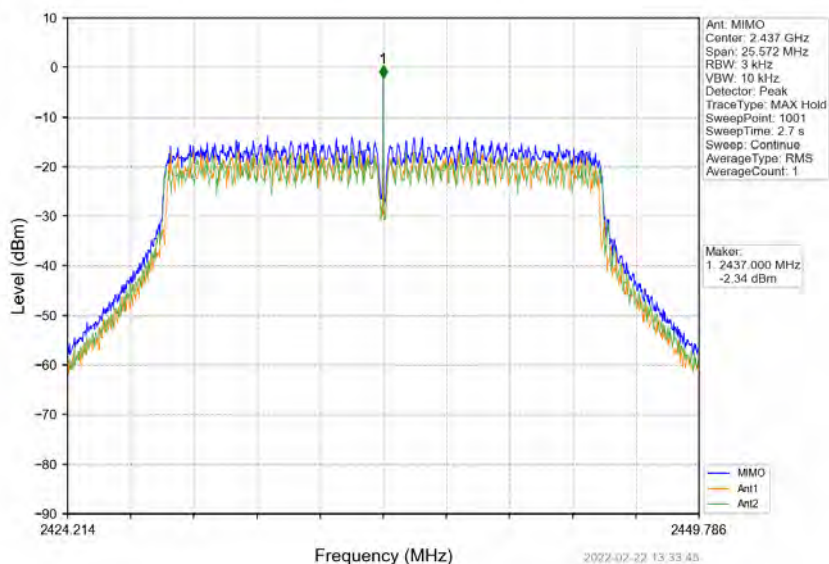
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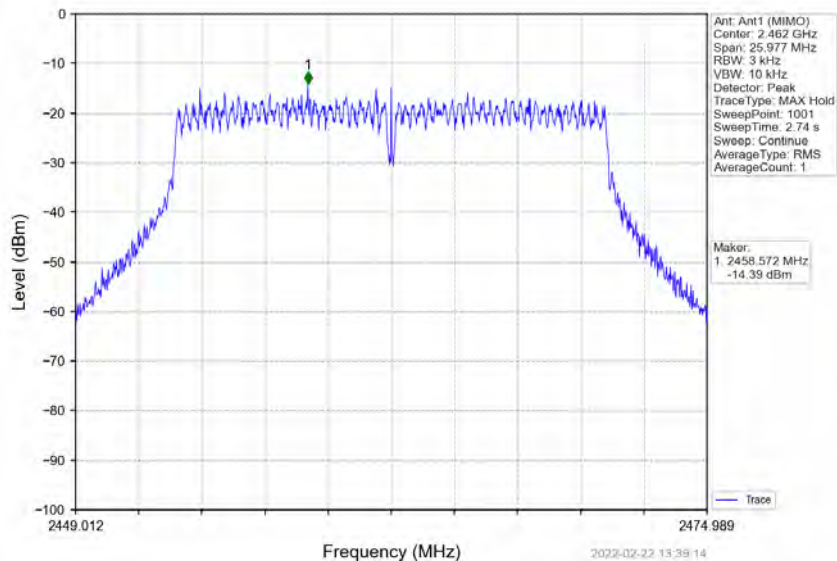
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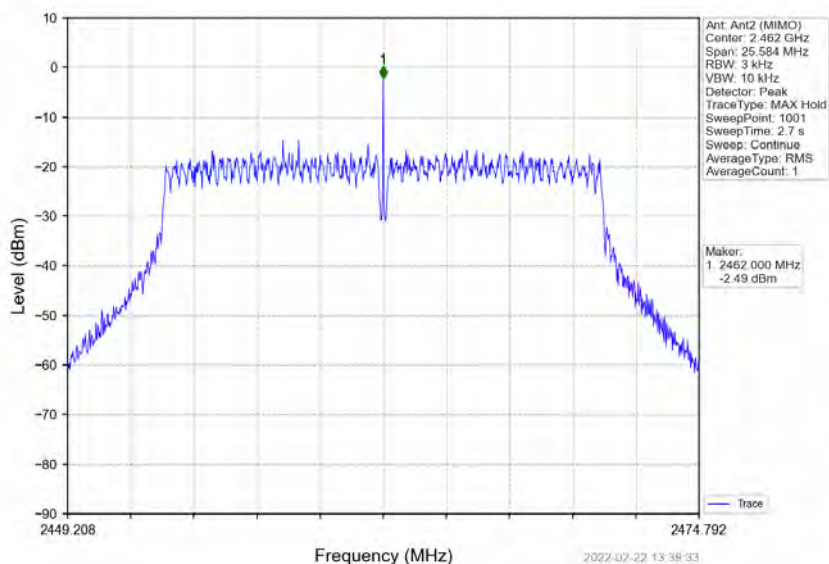
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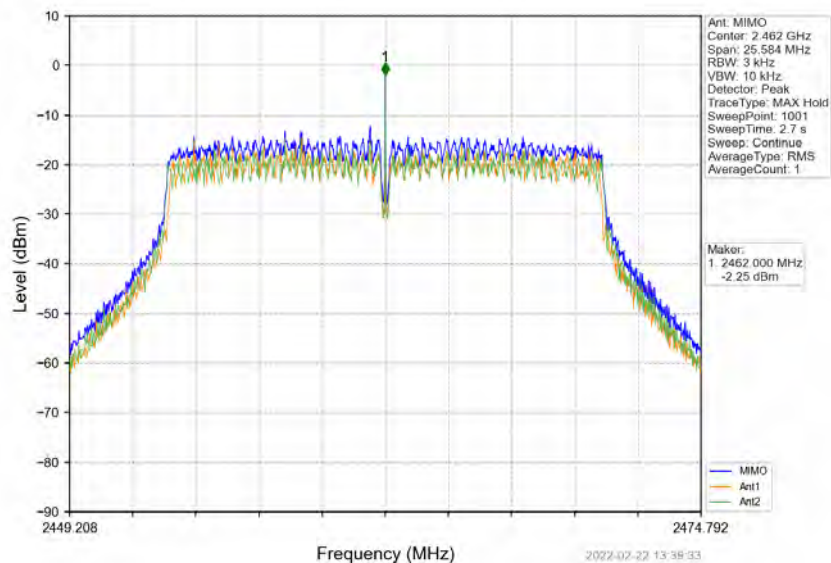
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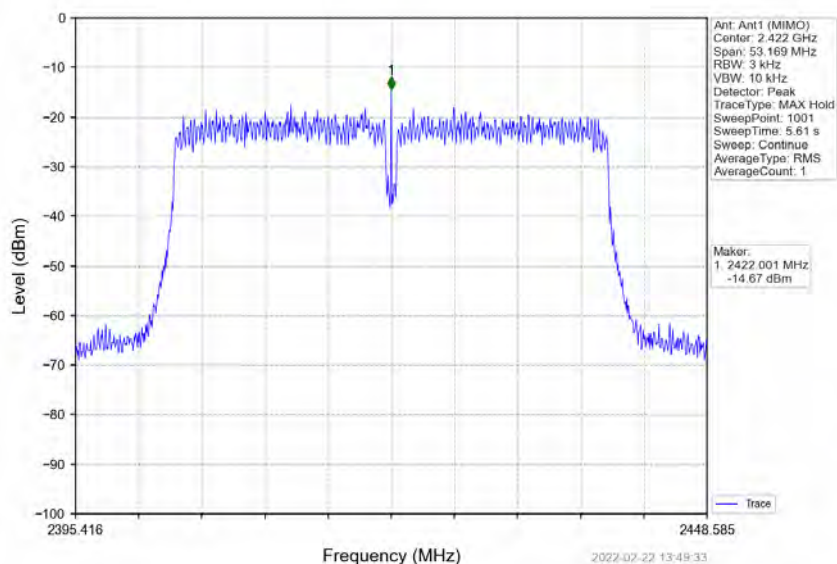
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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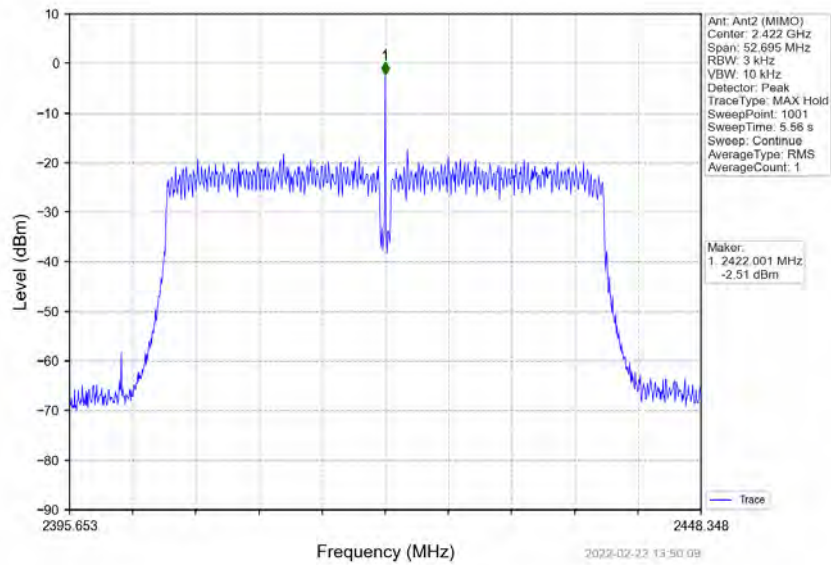
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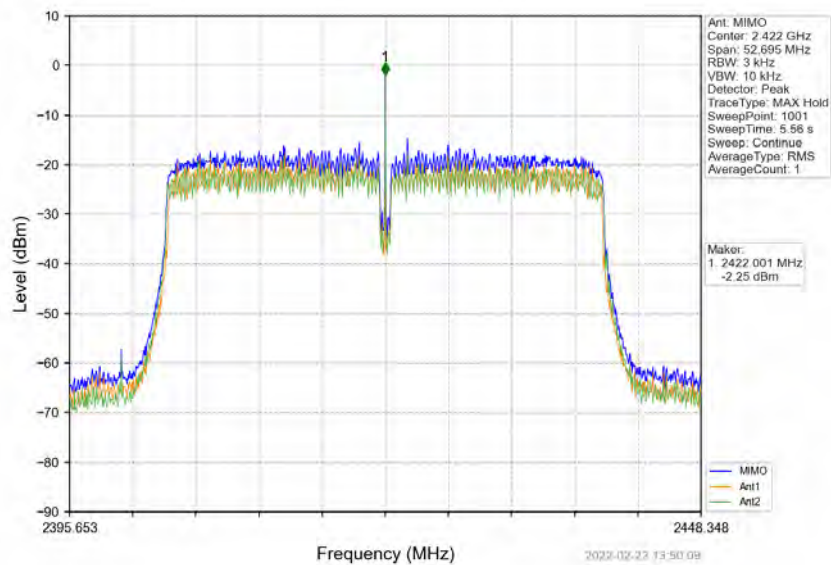
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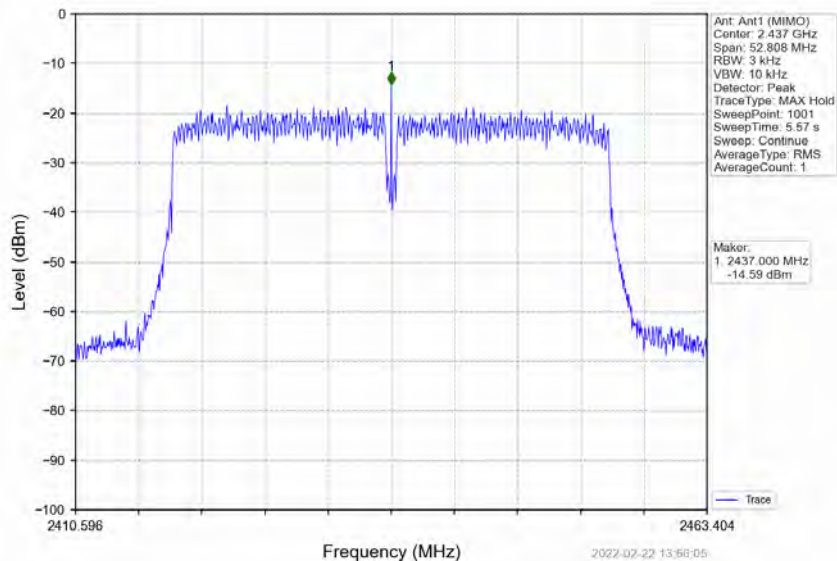
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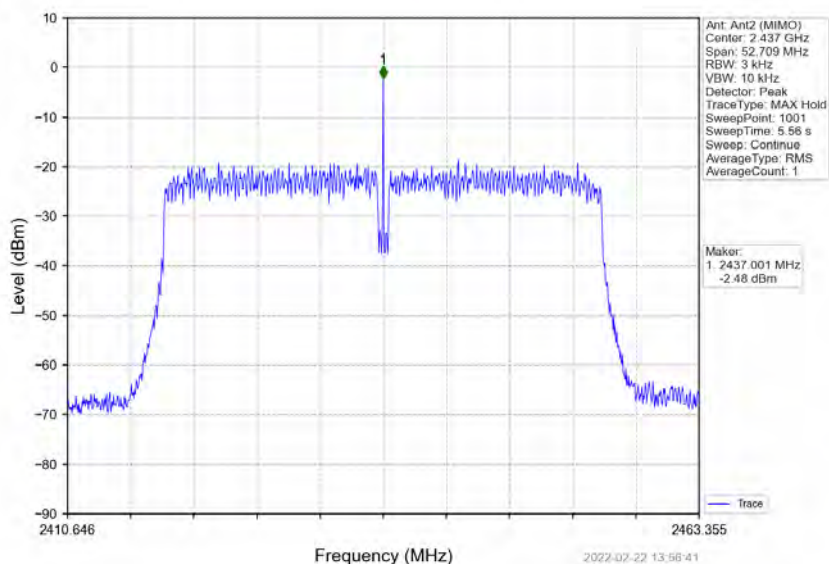
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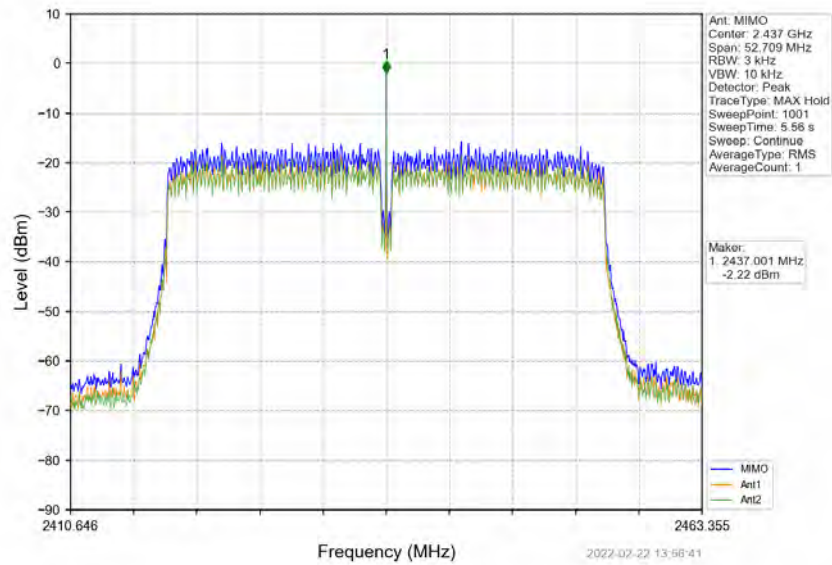
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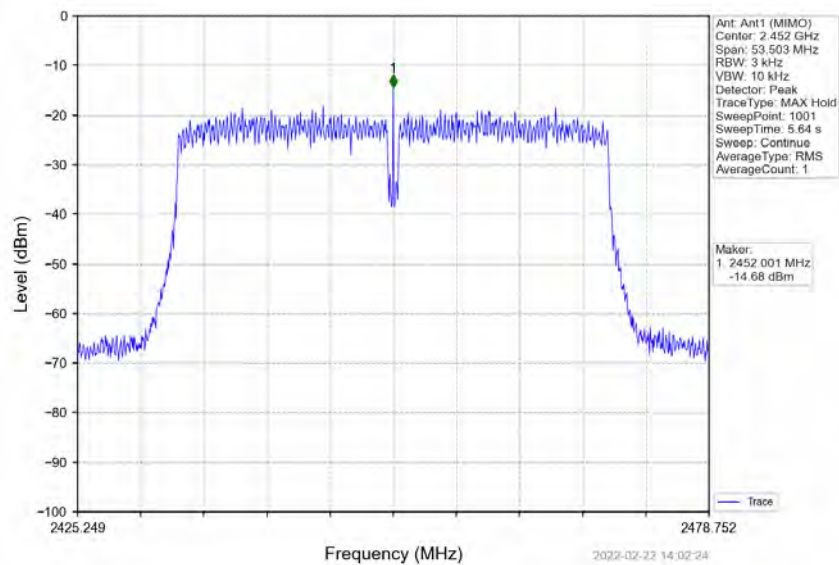
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802.11n(HT40) MCH 2437MHz MIMO NTNV



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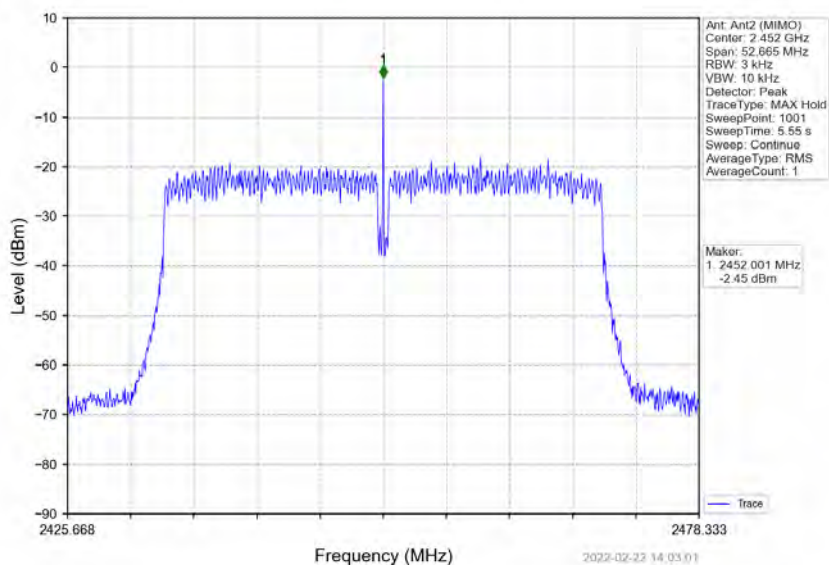
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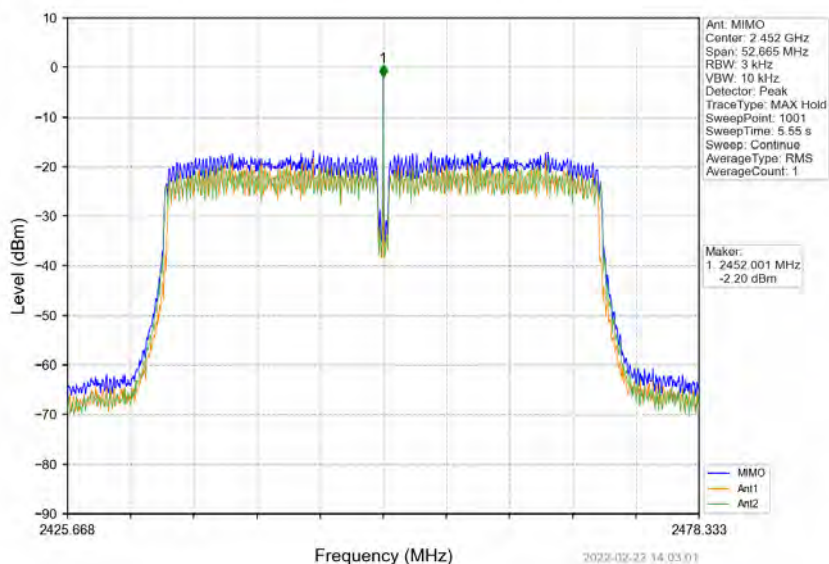
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802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV



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	11.78
			2	11.24
		2437	1	11.58
			2	11.83
		2462	1	11.83
			2	11.88
802.11g	SISO	2412	1	0.97
			2	1.56
		2437	1	0.47
			2	1.13
		2462	1	0.30
			2	1.23
802.11n (HT20)	MIMO	2412	1	1.64
			2	2.35
		2437	1	1.64
			2	2.52
		2462	1	1.33
			2	2.90
802.11n (HT40)	MIMO	2422	1	1.46
			2	-0.13
		2437	1	-1.18
			2	0.03
		2452	1	-1.32
			2	-0.06

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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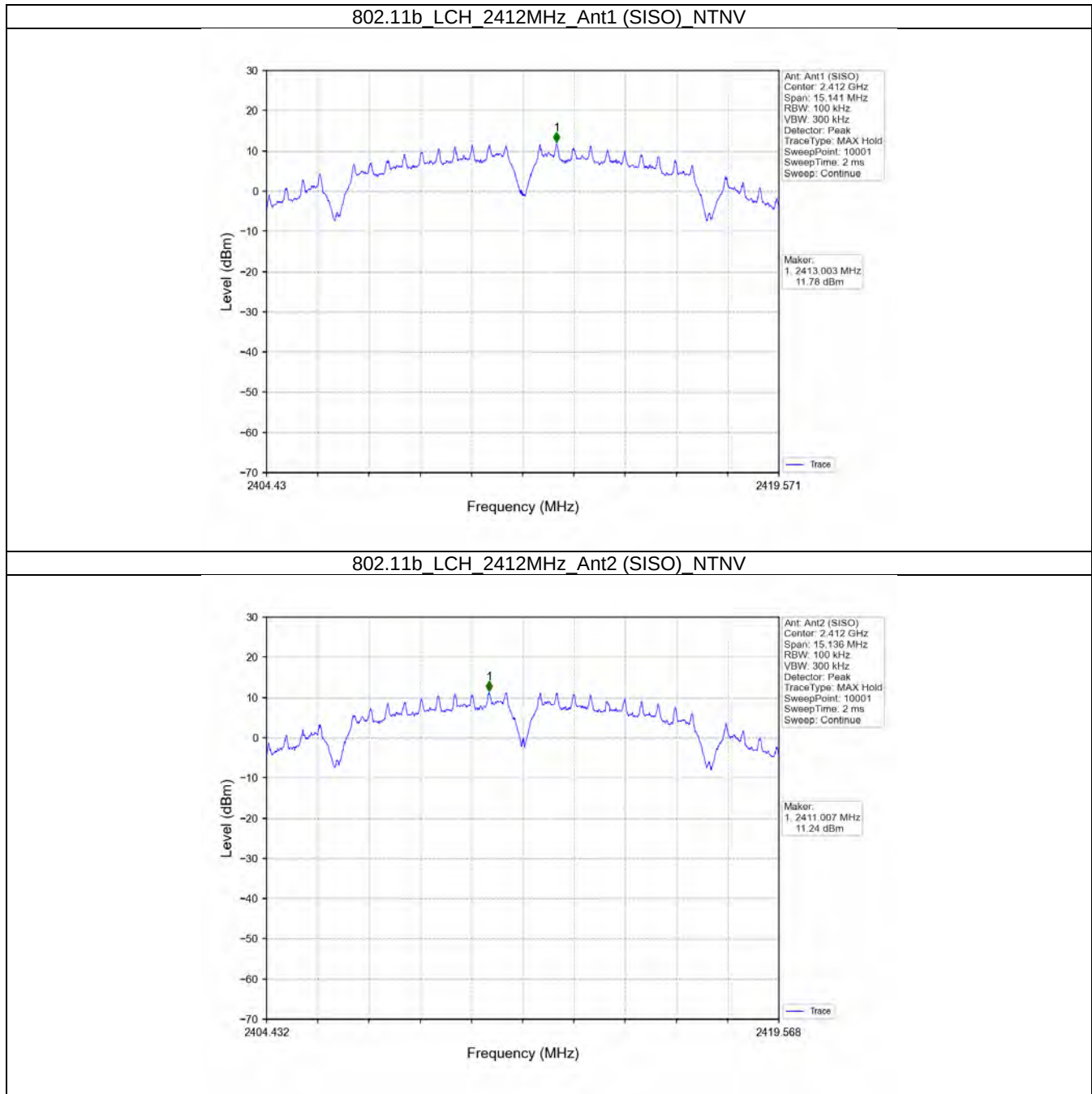
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5.1.2 Test Graph



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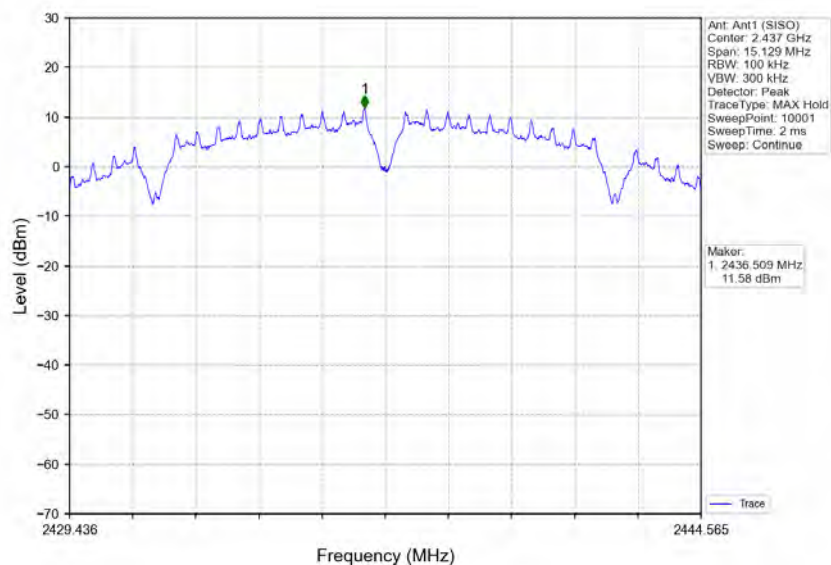
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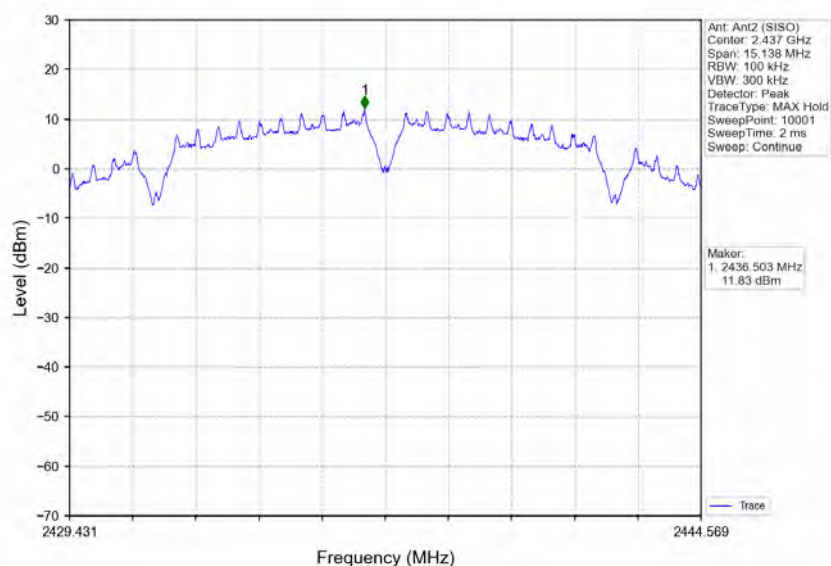
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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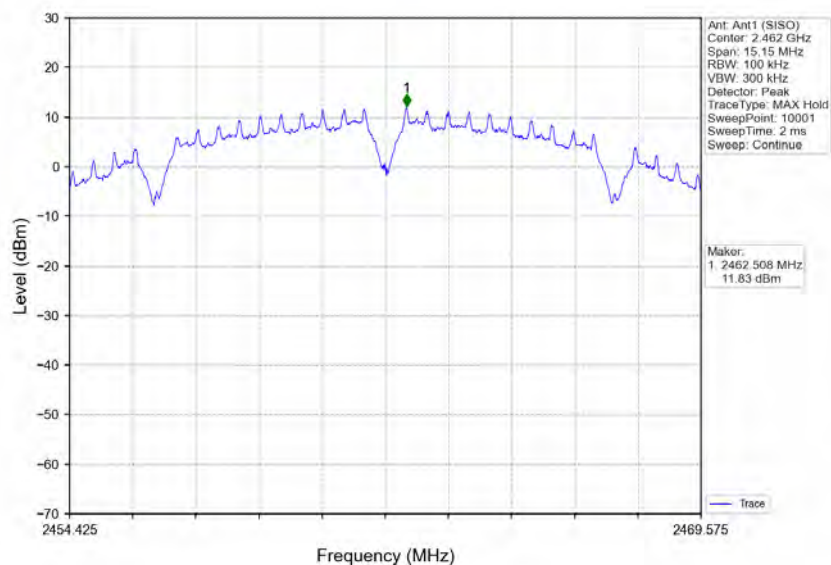
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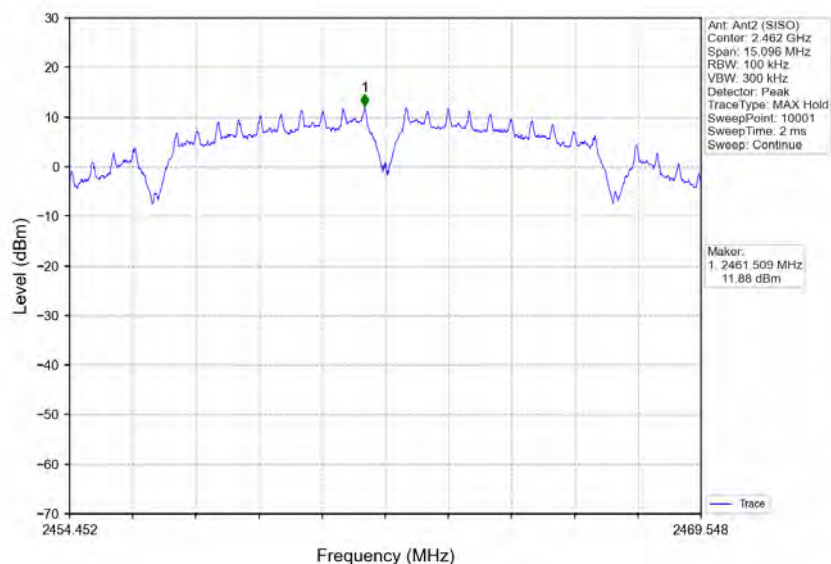
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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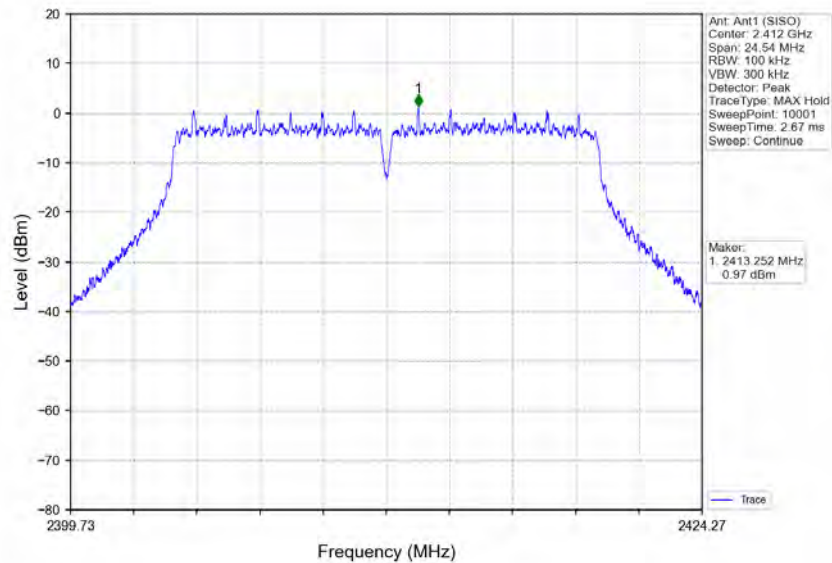
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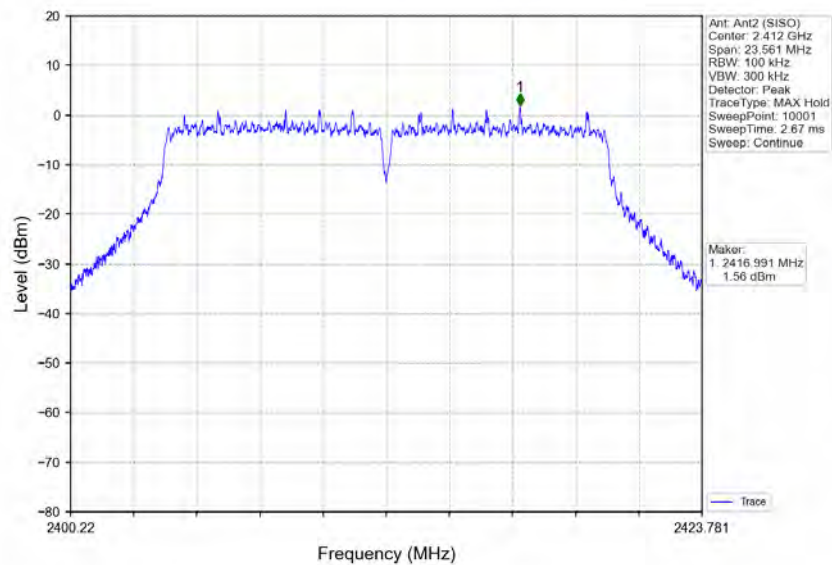
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802.11g_LCH_2412MHz_Ant1 (SISO) NTN



802.11g_LCH_2412MHz_Ant2 (SISO) NTN



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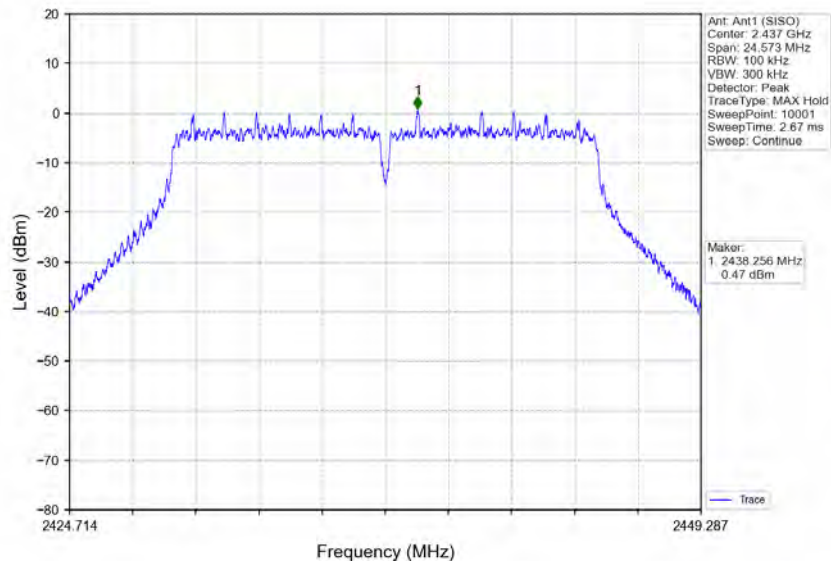
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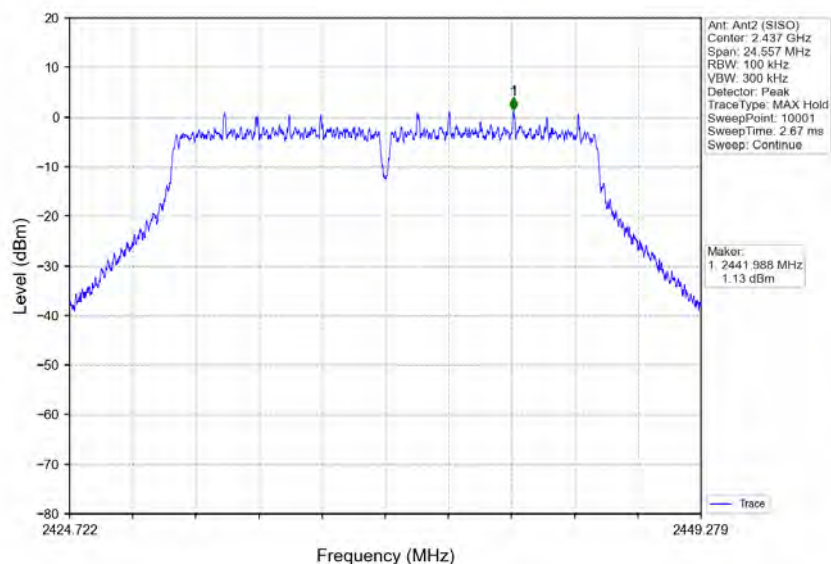
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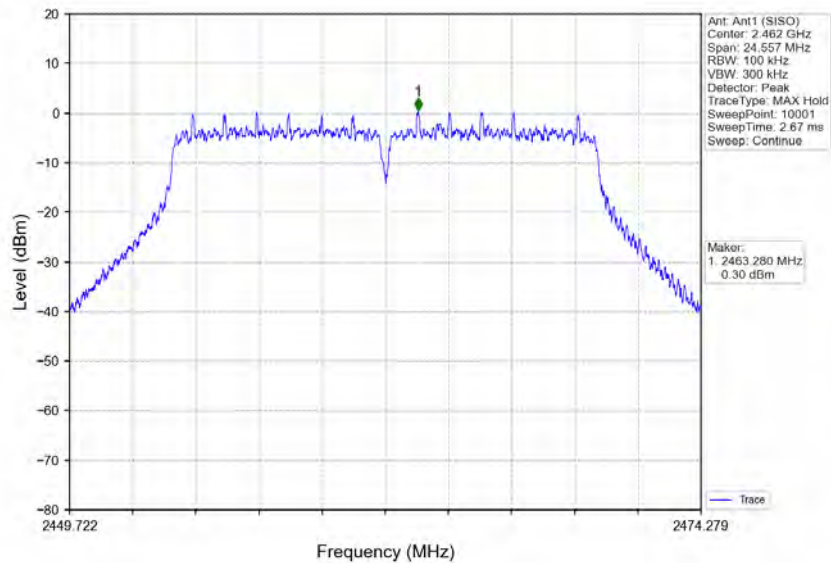
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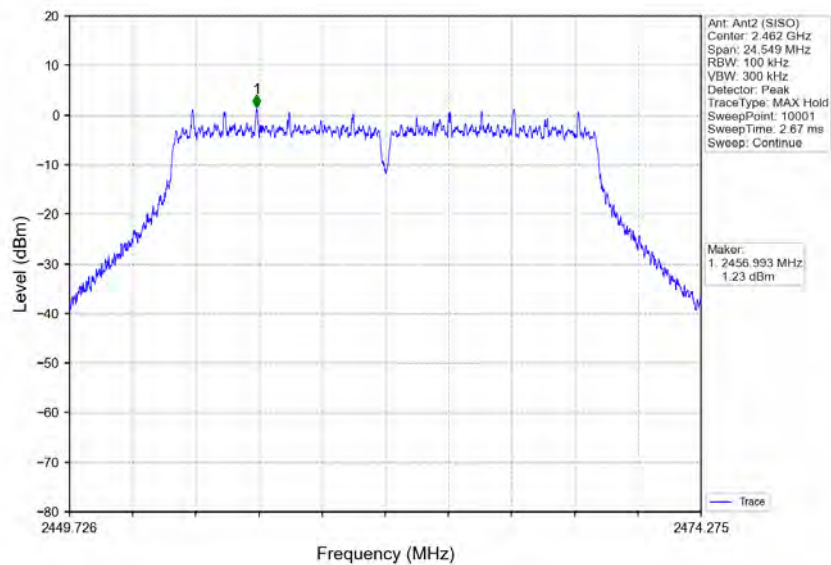
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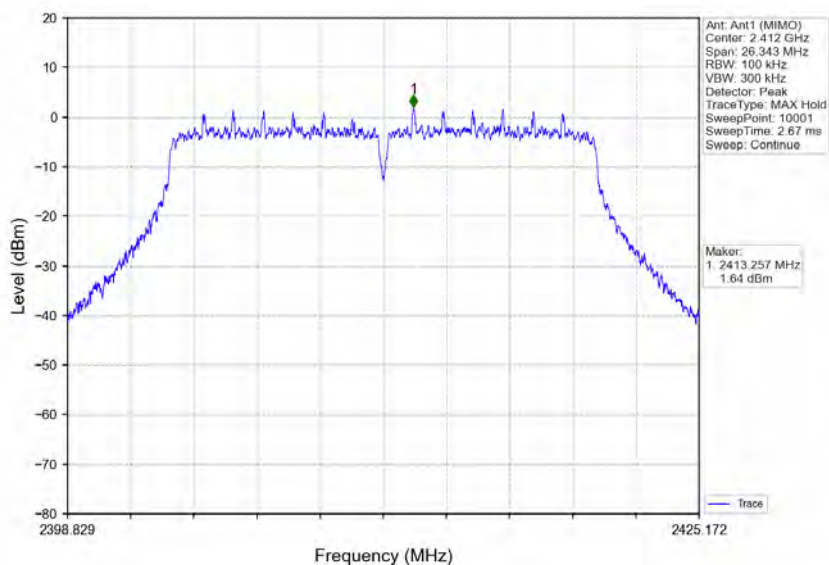
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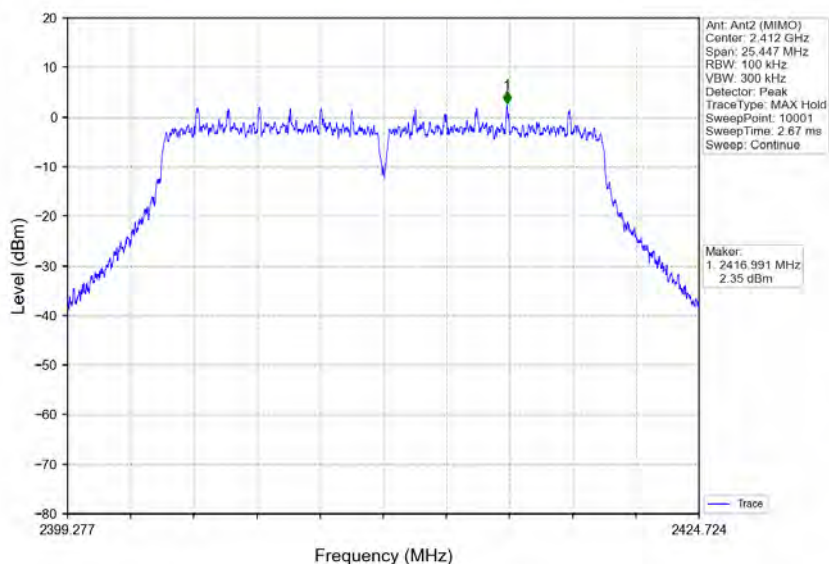
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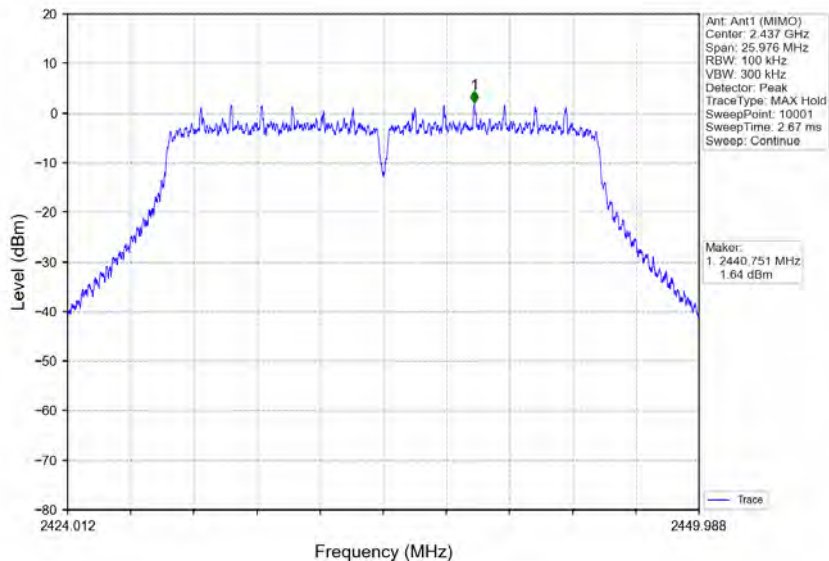
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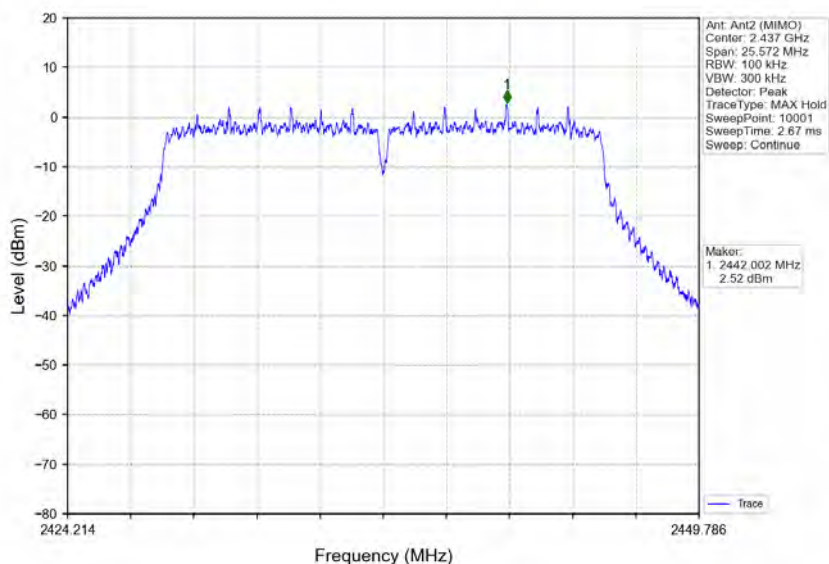
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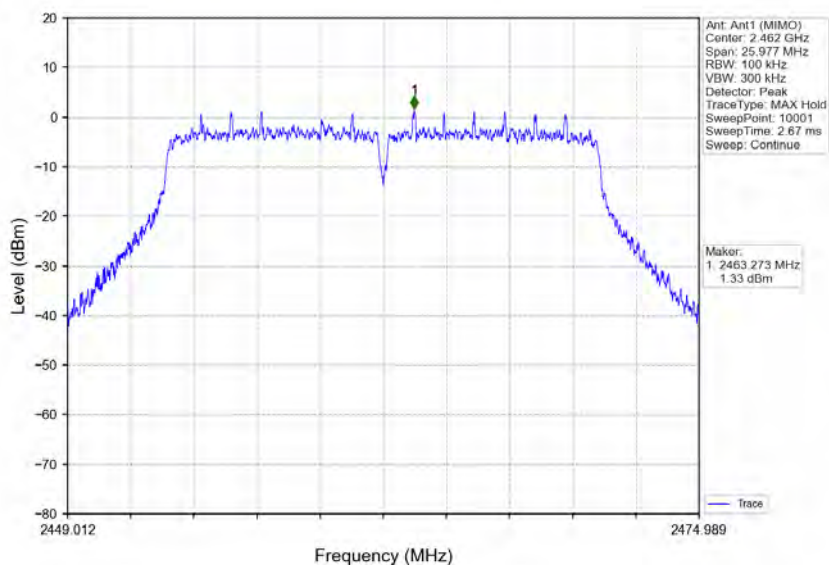
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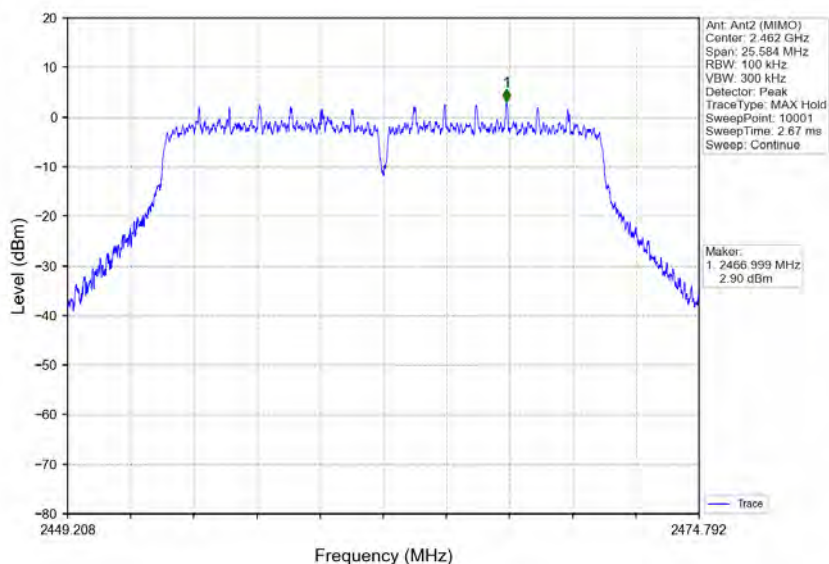
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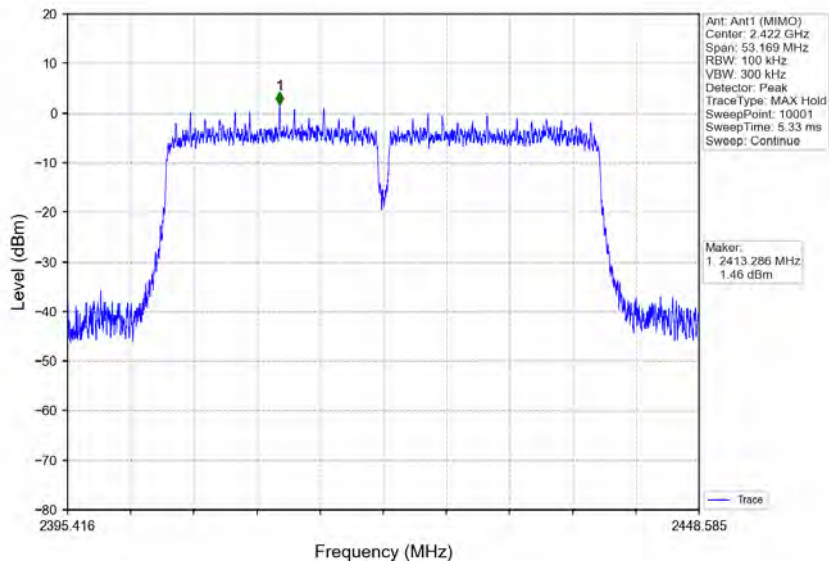
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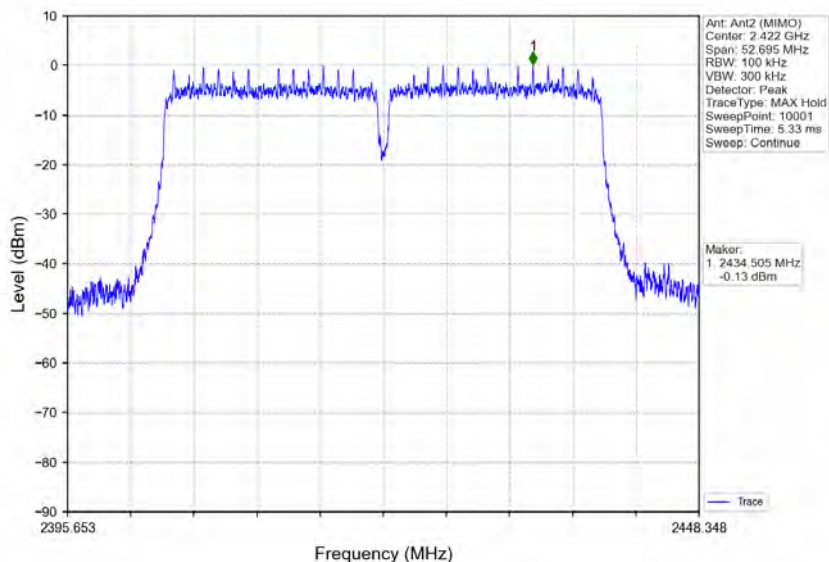
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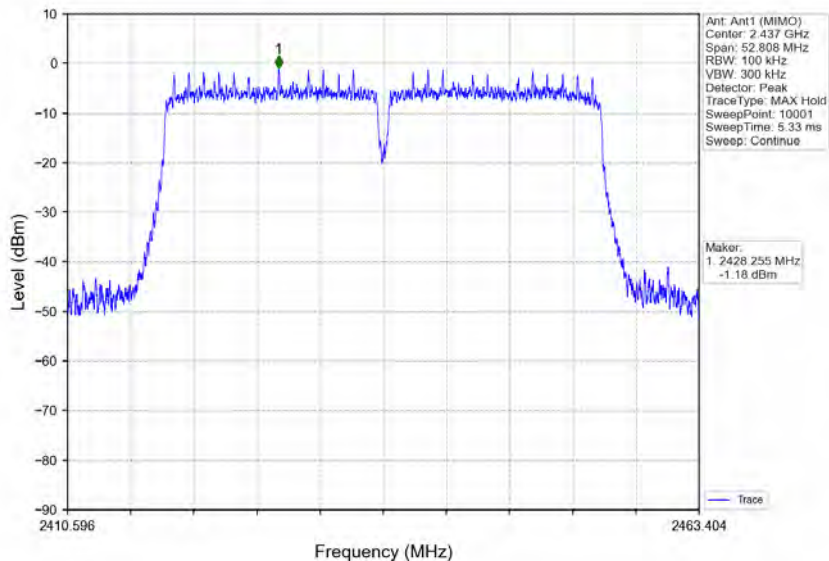
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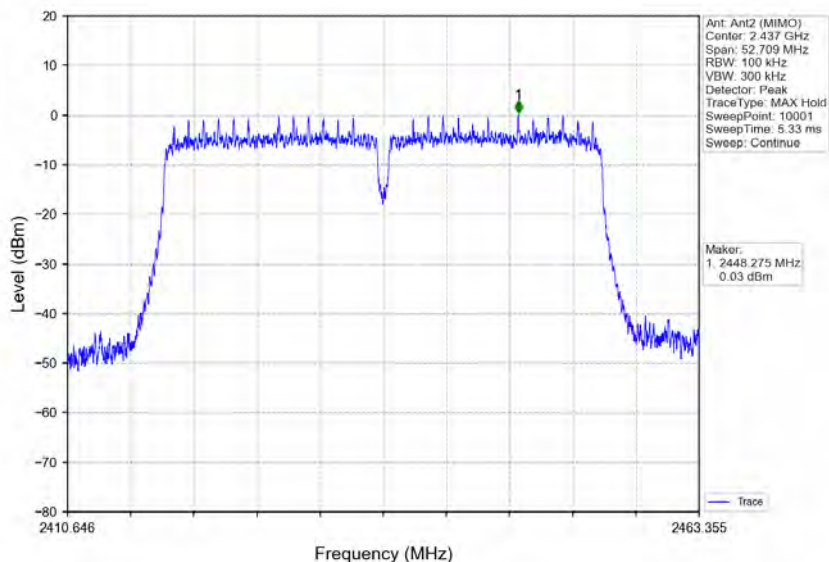
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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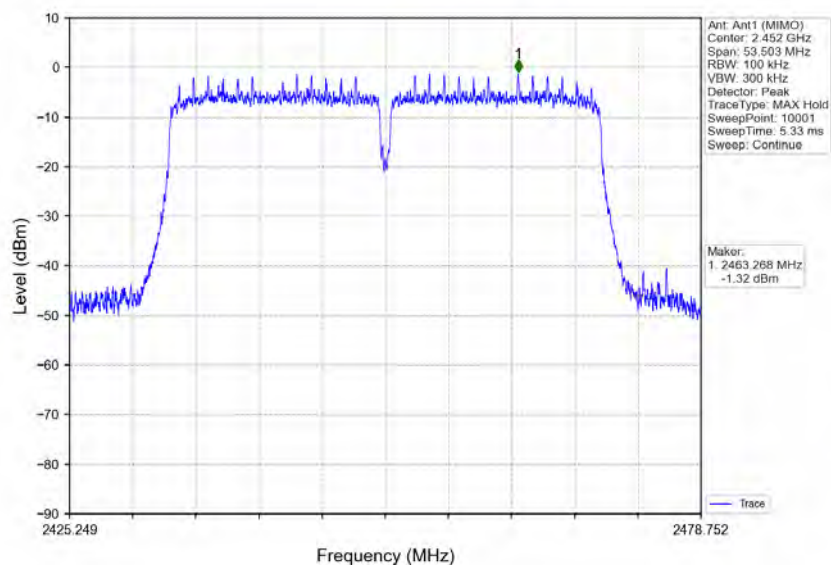
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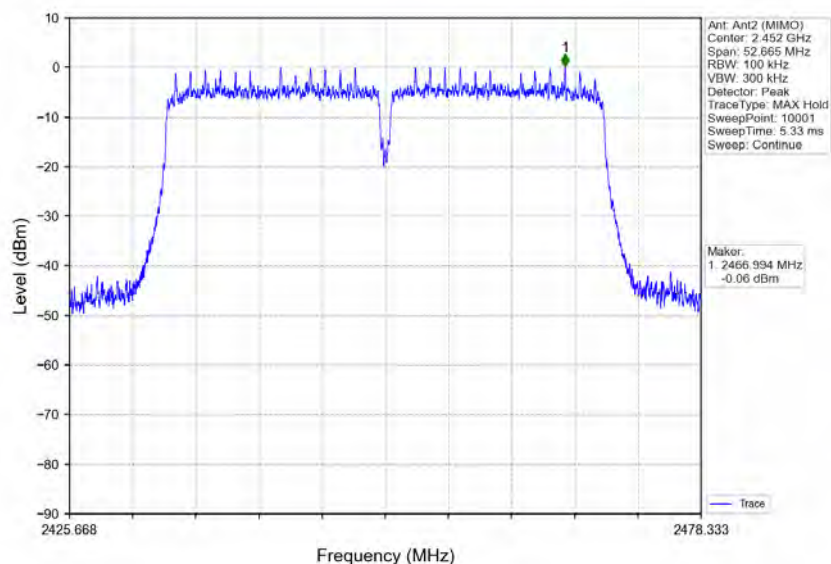
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802.11n(HT40) HCH 2452MHz_Ant1 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz_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	11.83	-18.17	Pass
			2	11.88	-18.12	Pass
		2437	1	11.83	-18.17	Pass
			2	11.88	-18.12	Pass
		2462	1	11.83	-18.17	Pass
			2	11.88	-18.12	Pass
802.11g	SISO	2412	1	0.97	-29.03	Pass
			2	1.56	-28.44	Pass
		2437	1	0.97	-29.03	Pass
			2	1.56	-28.44	Pass
		2462	1	0.97	-29.03	Pass
			2	1.56	-28.44	Pass
802.11n (HT20)	MIMO	2412	1	1.64	-28.36	Pass
			2	2.90	-27.10	Pass
		2437	1	1.64	-28.36	Pass
			2	2.90	-27.10	Pass
		2462	1	1.64	-28.36	Pass
			2	2.90	-27.10	Pass
802.11n (HT40)	MIMO	2422	1	1.46	-28.54	Pass
			2	0.03	-29.97	Pass
		2437	1	1.46	-28.54	Pass
			2	0.03	-29.97	Pass
		2452	1	1.46	-28.54	Pass
			2	0.03	-29.97	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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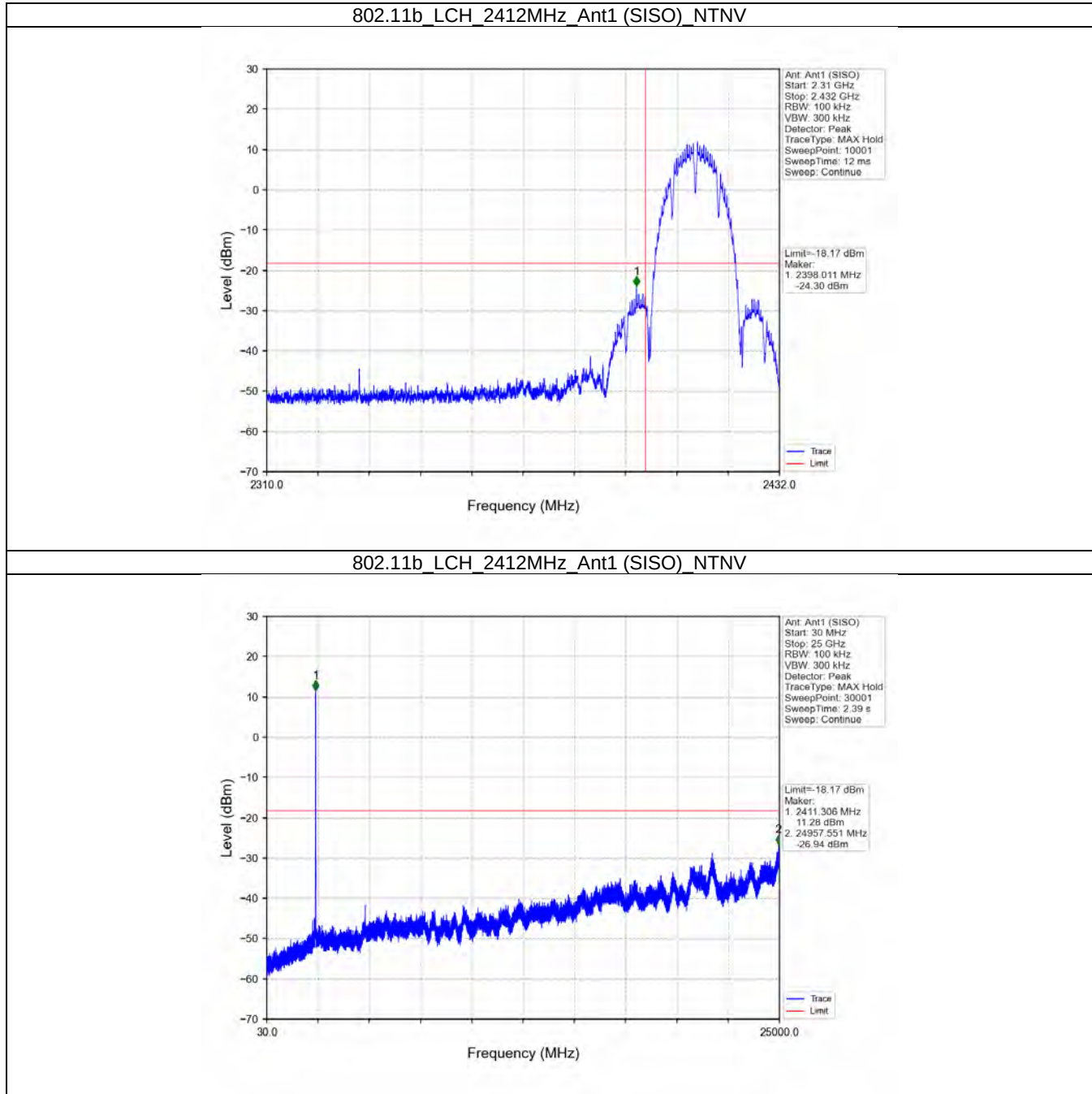
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5.2.2 Test Graph



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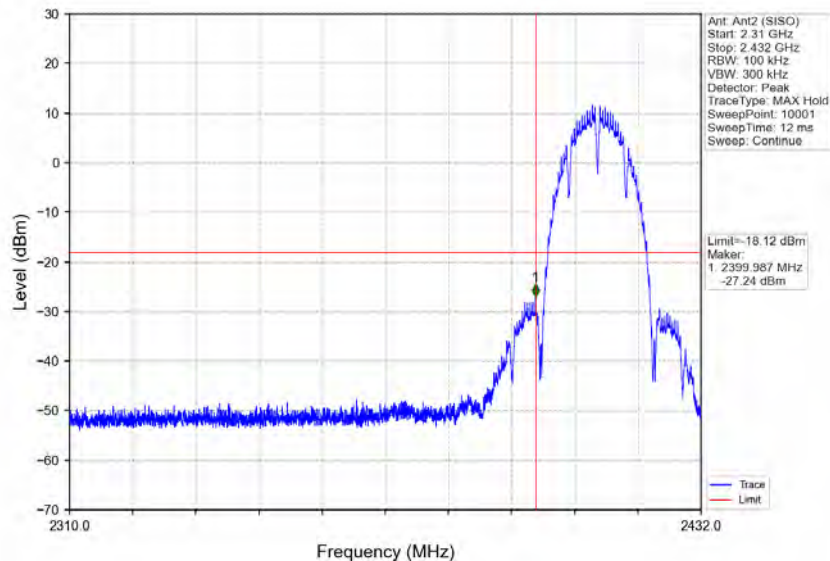
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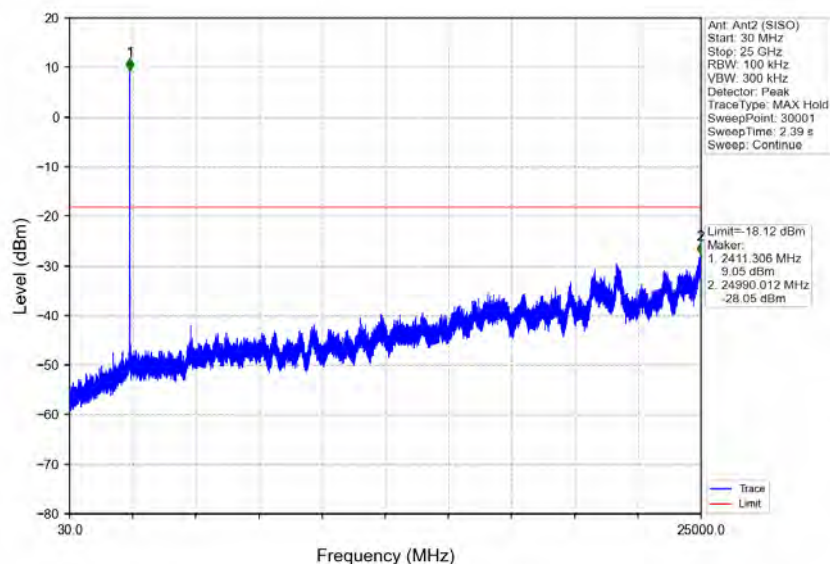
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802.11b LCH 2412MHz_Ant2 (SISO) NTN



802.11b LCH 2412MHz_Ant2 (SISO) NTN



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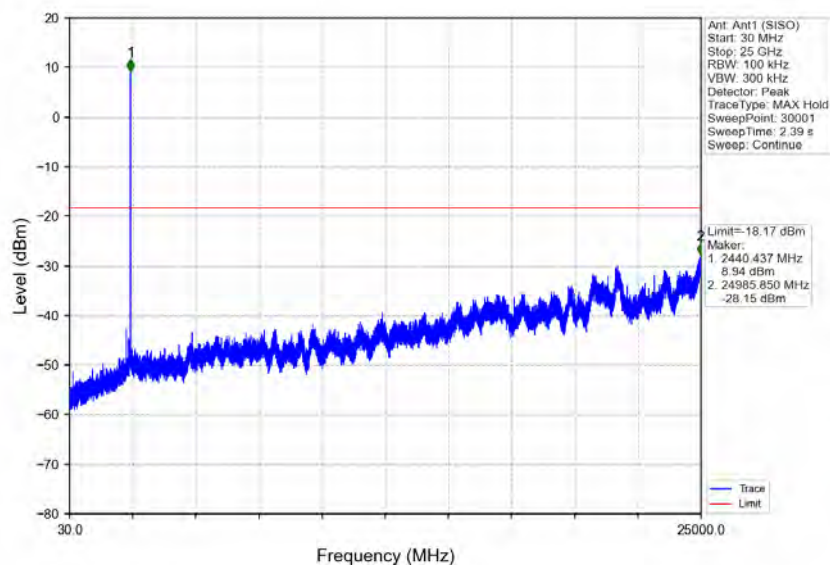
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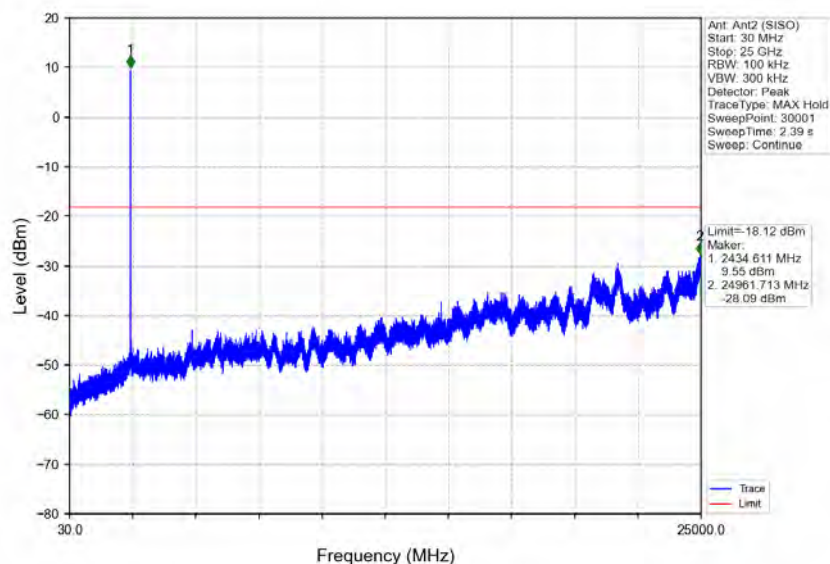
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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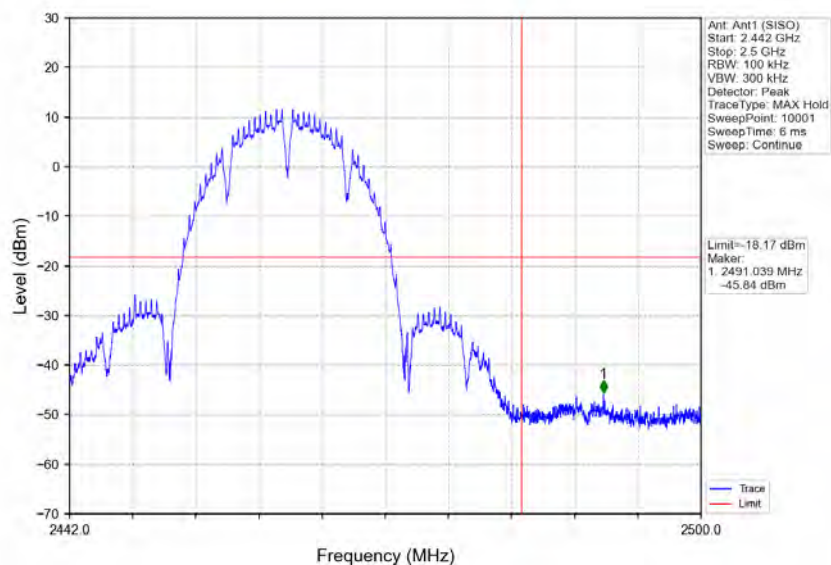
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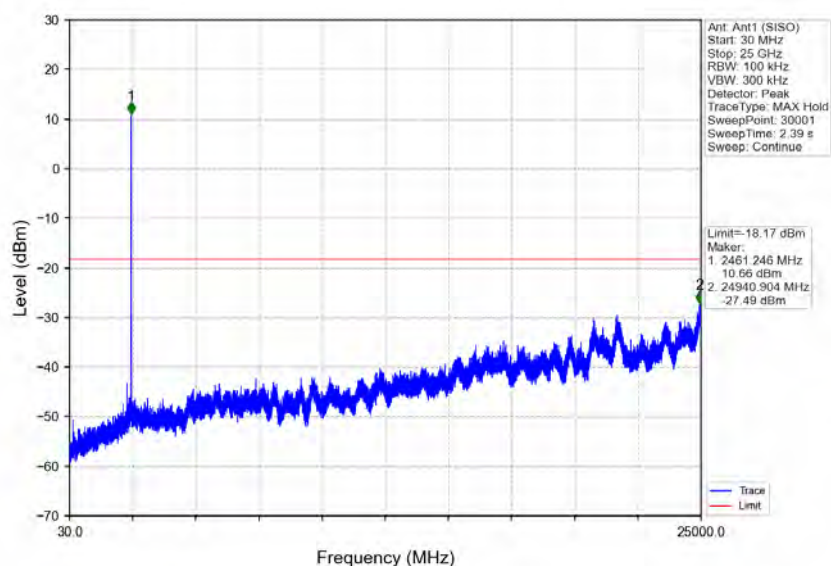
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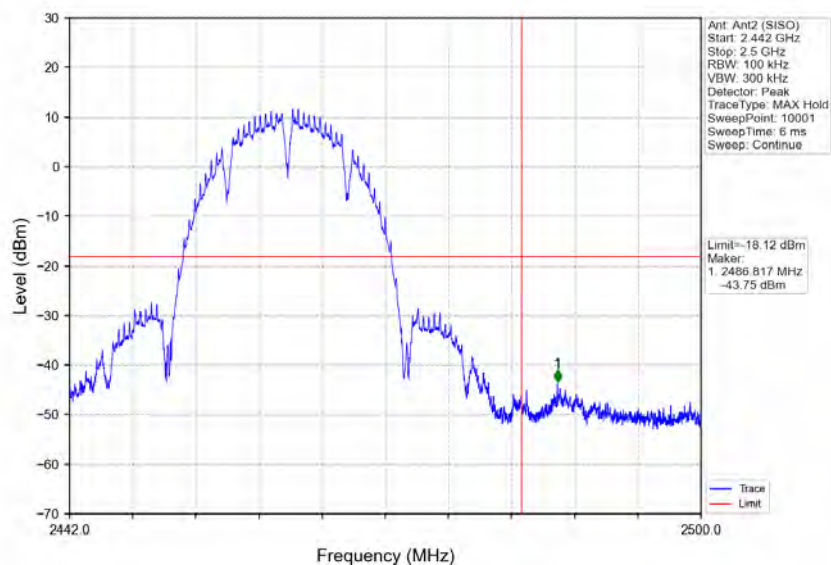
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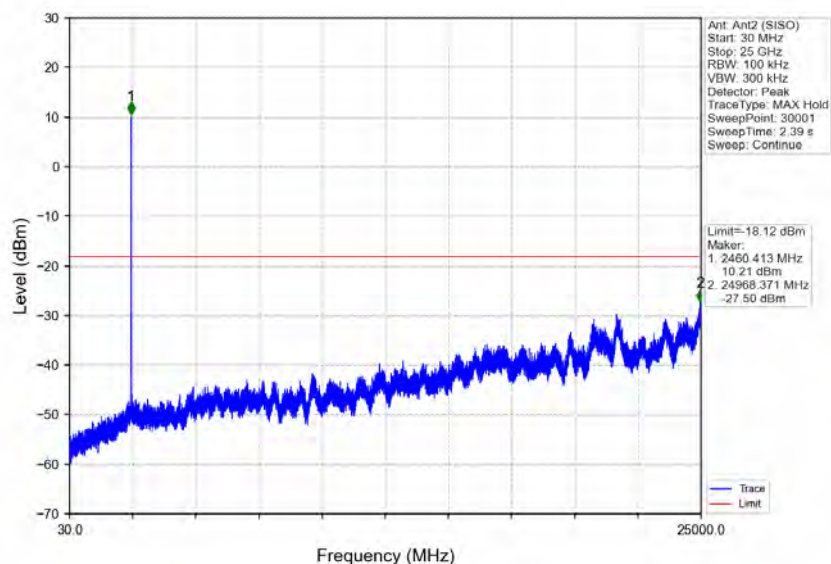
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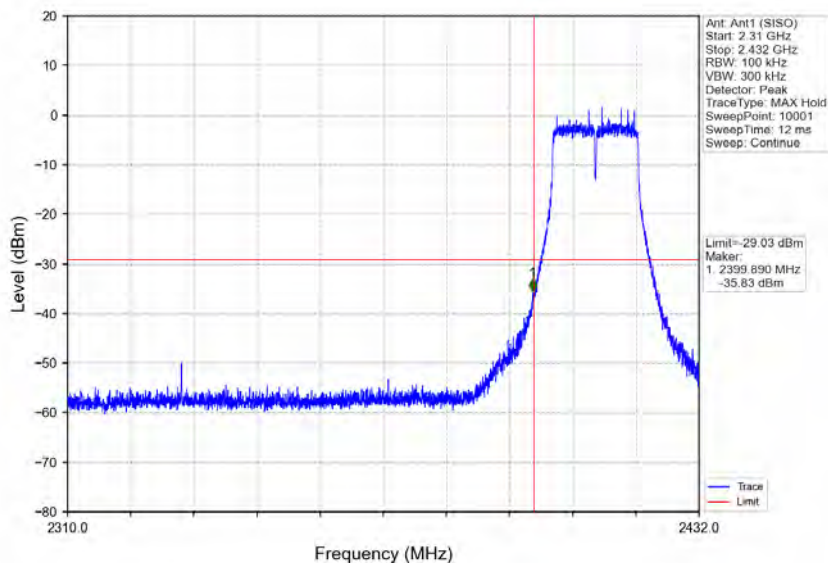
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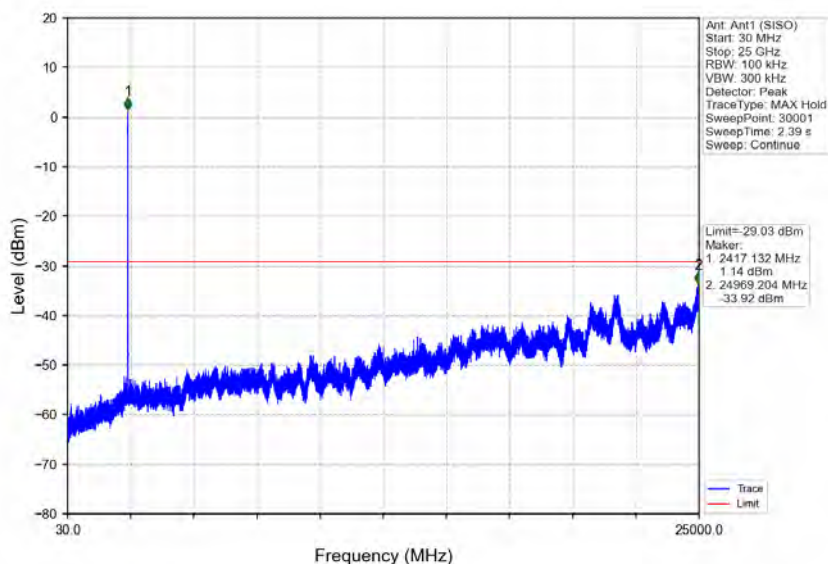
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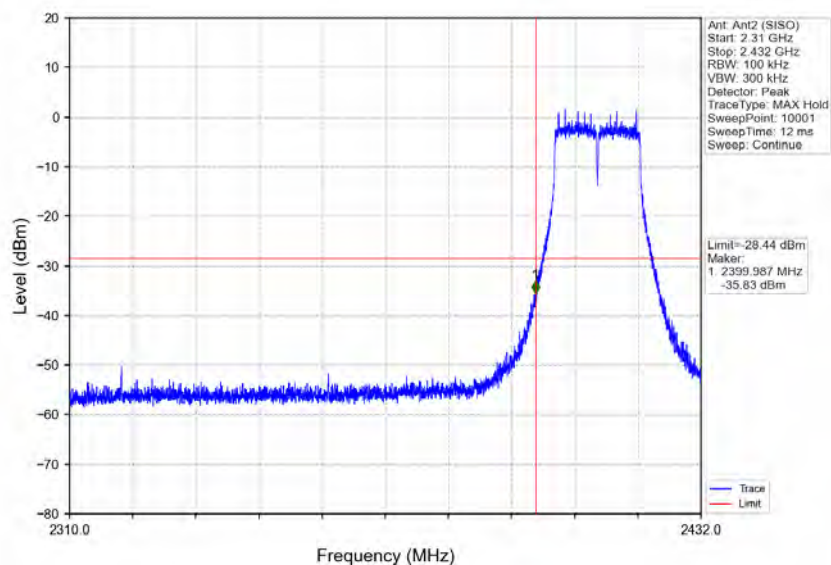
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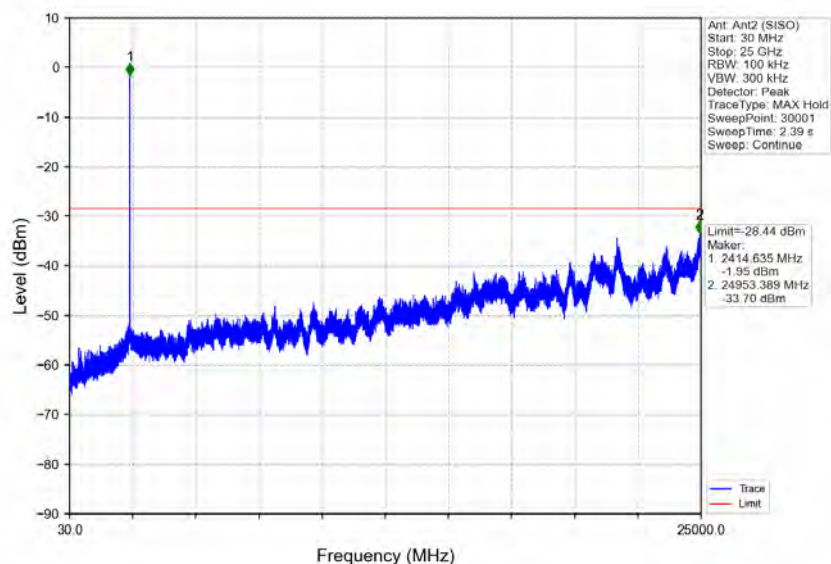
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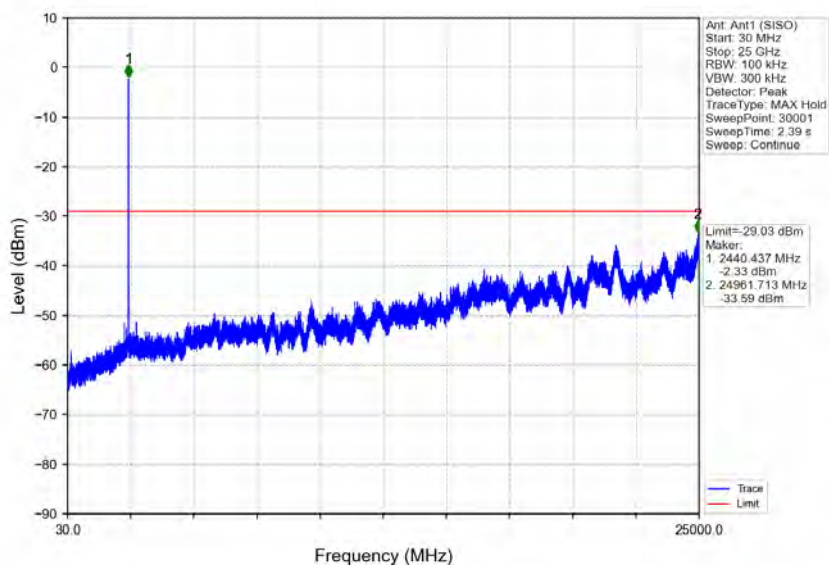
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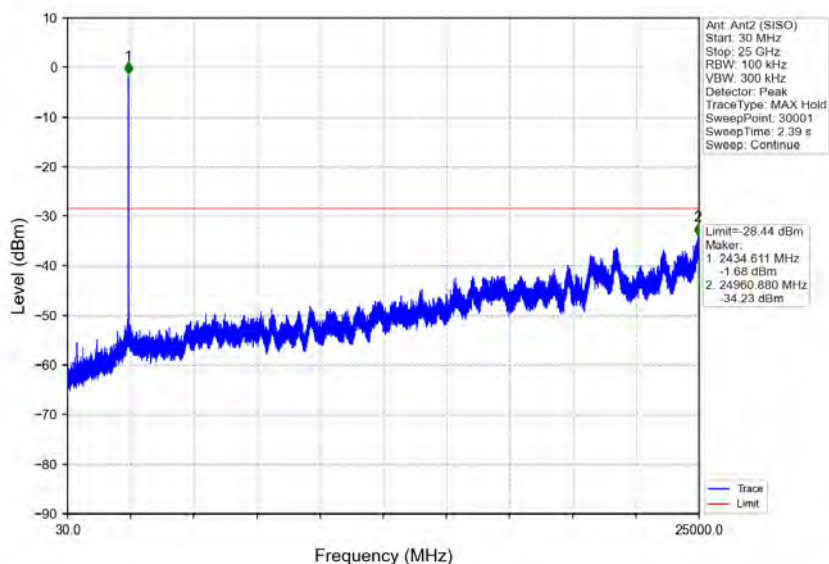
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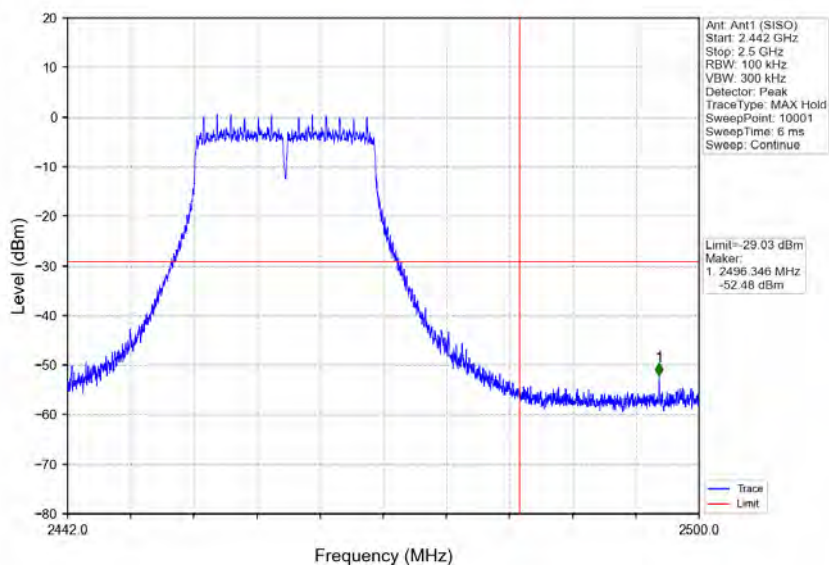
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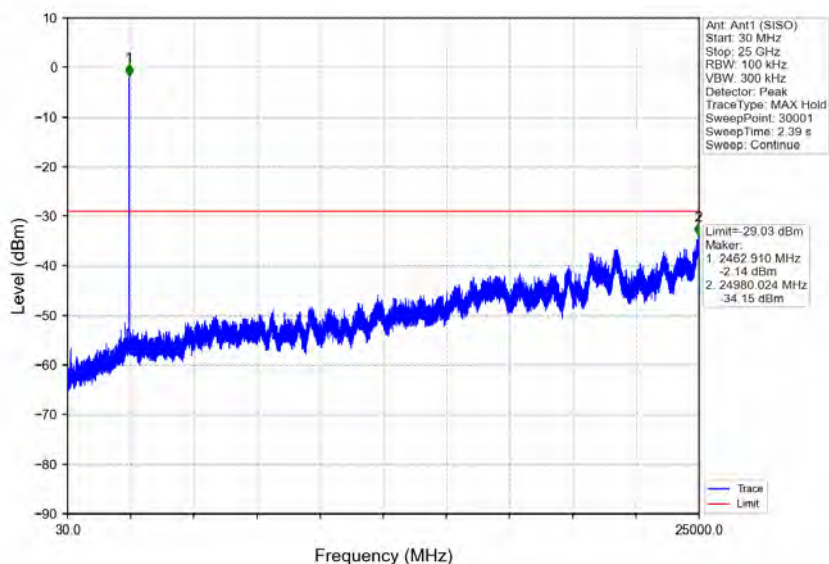
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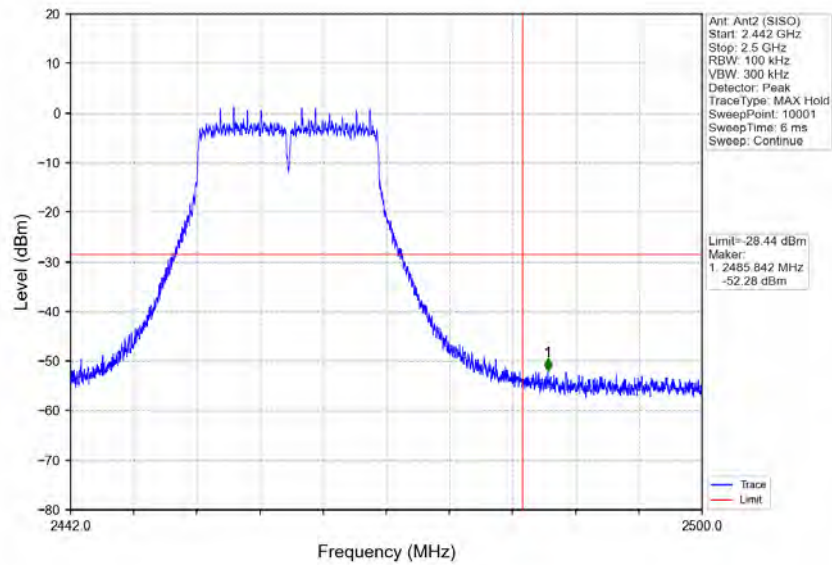
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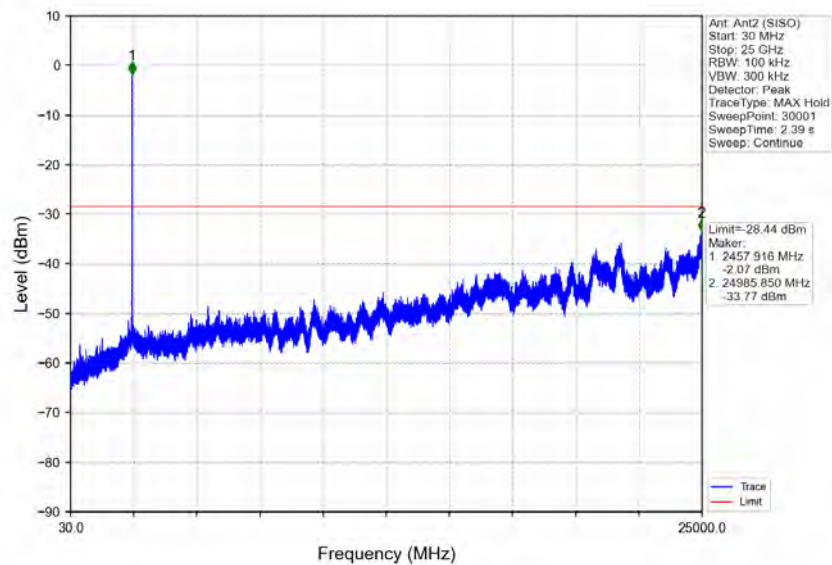
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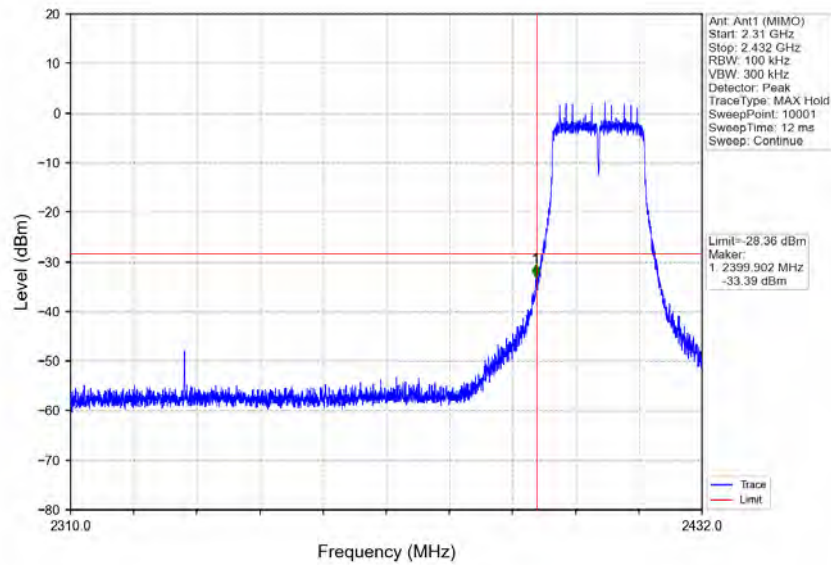
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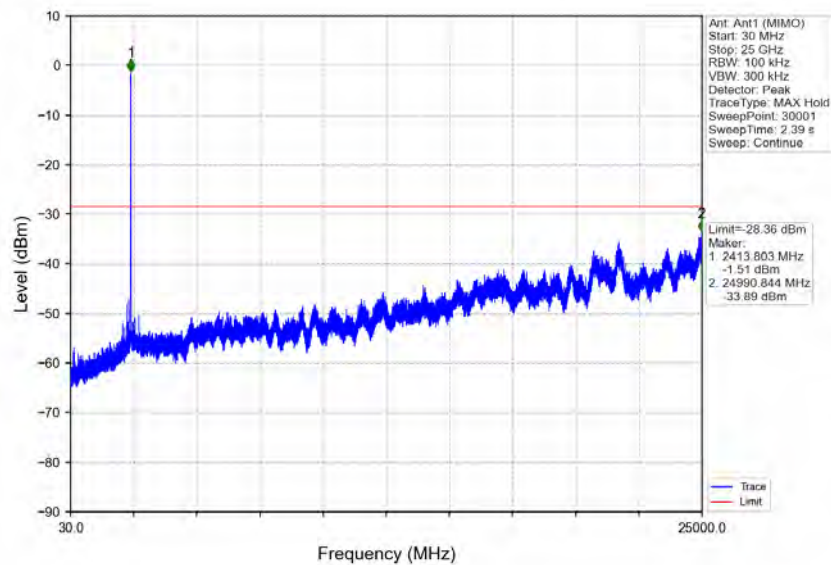
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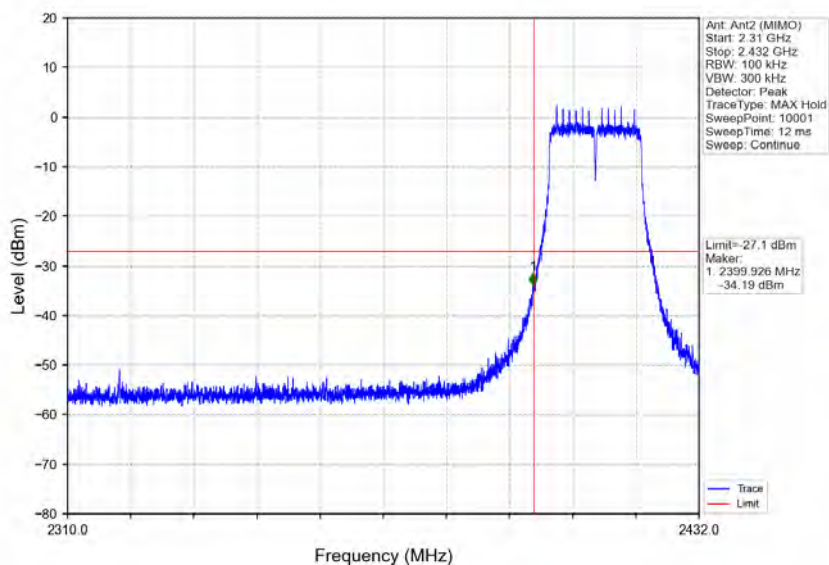
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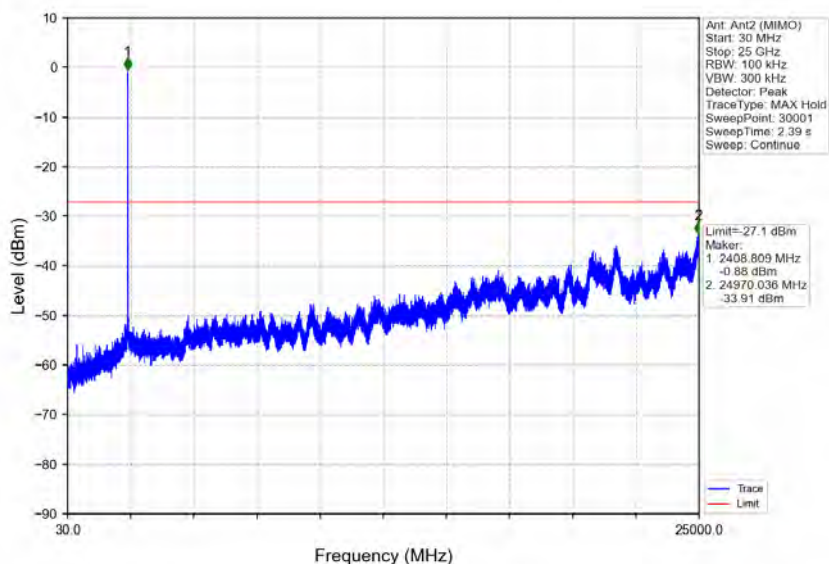
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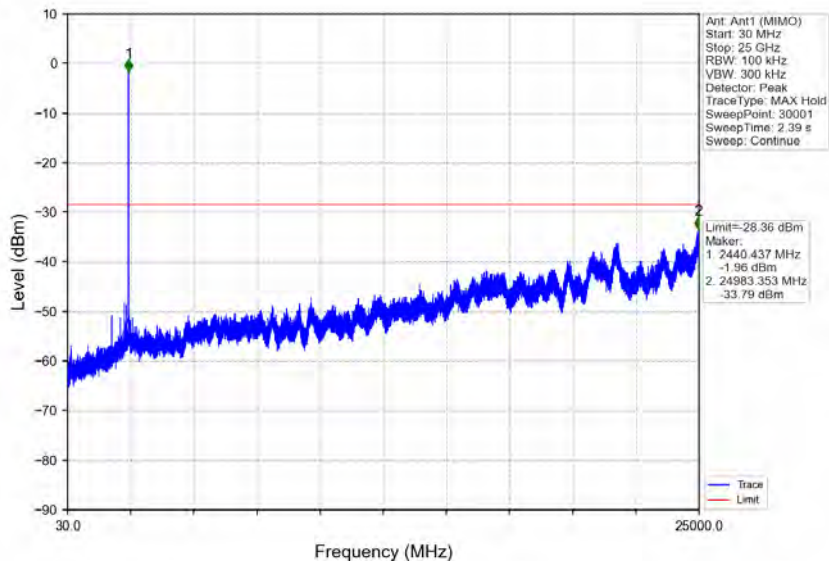
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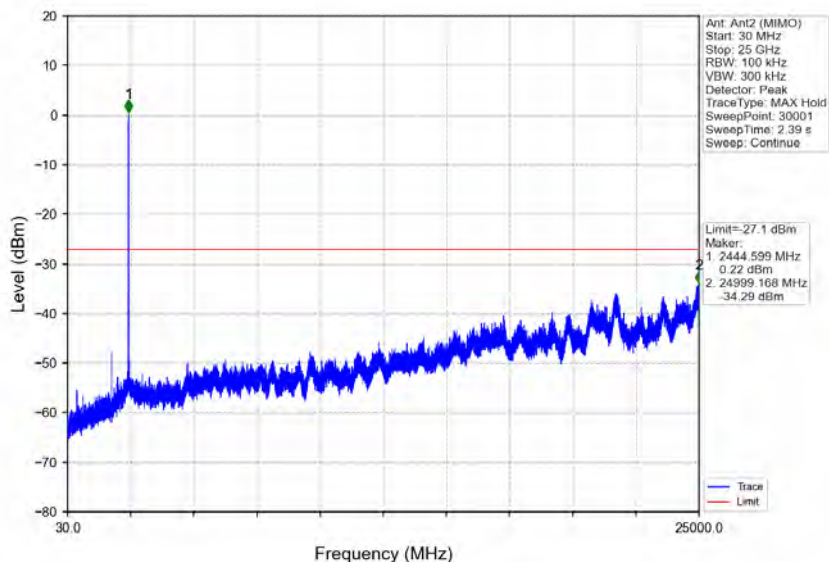
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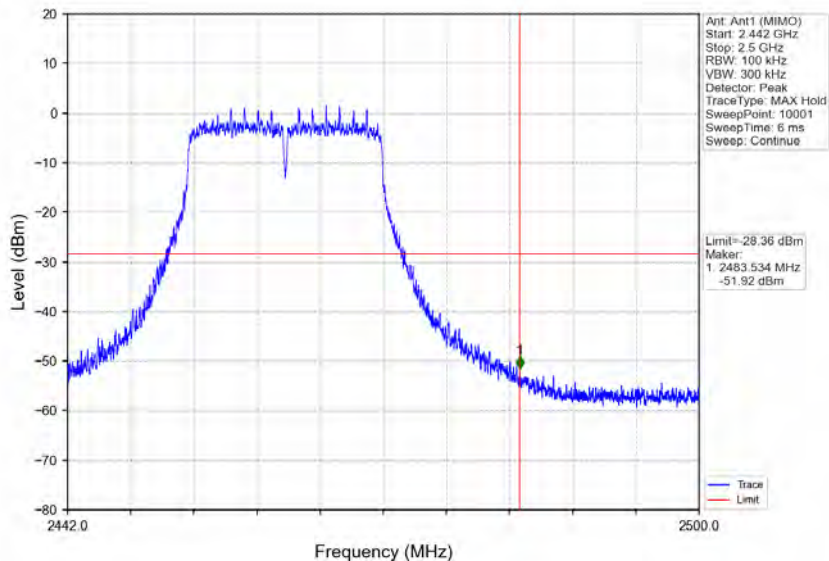
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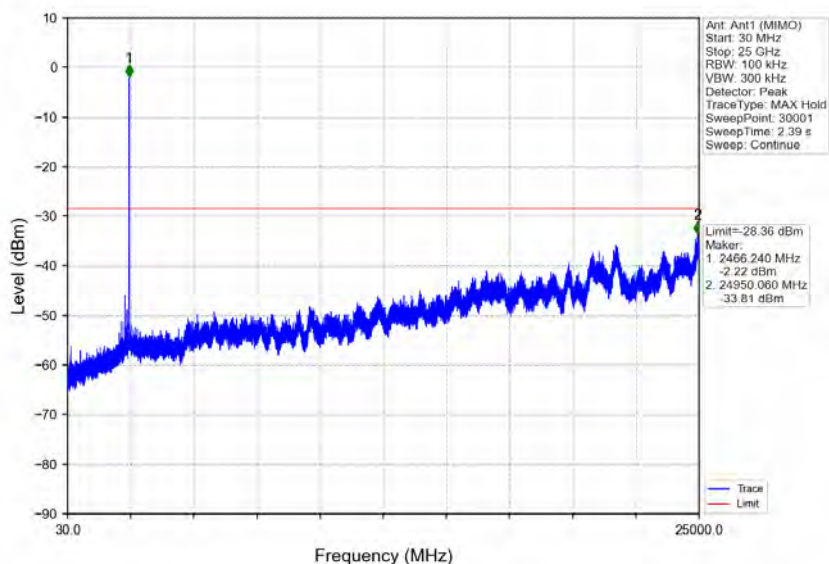
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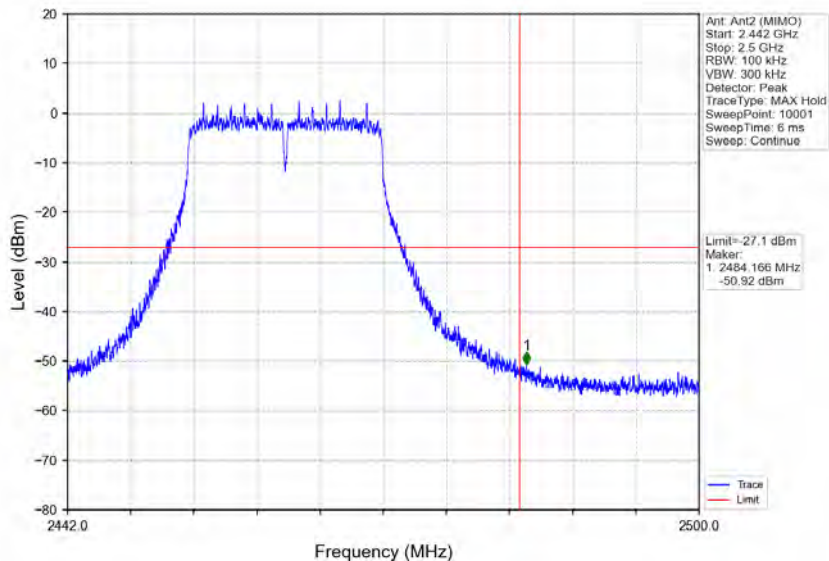
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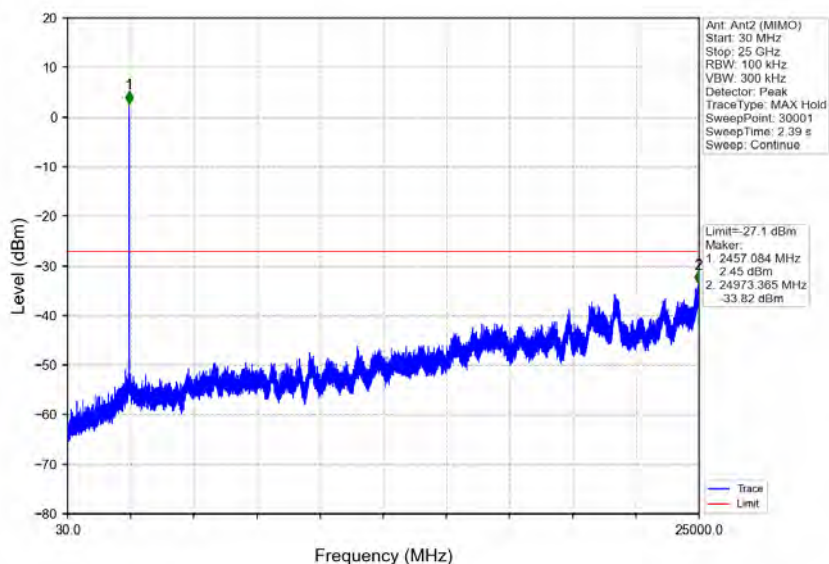
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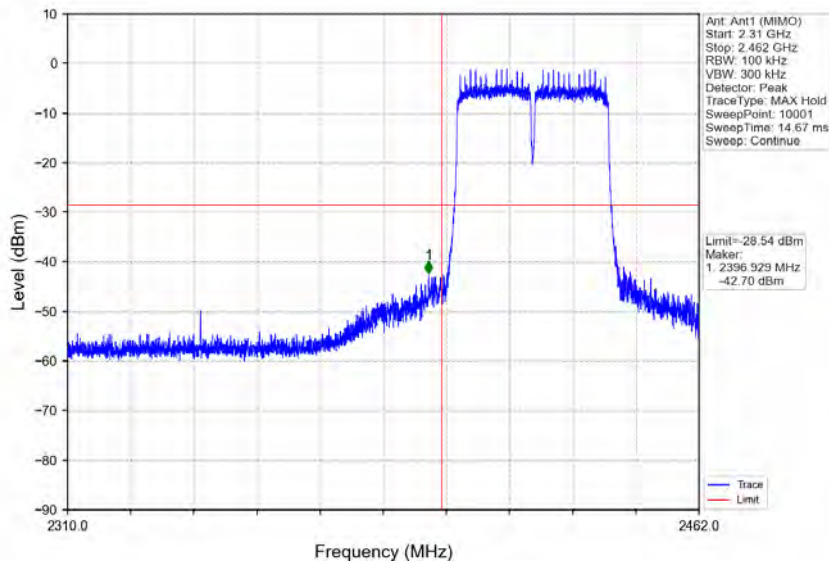
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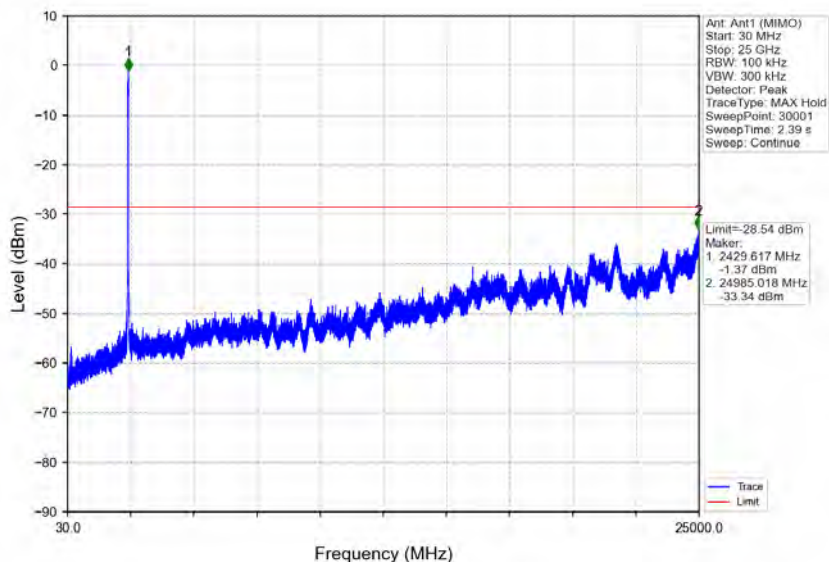
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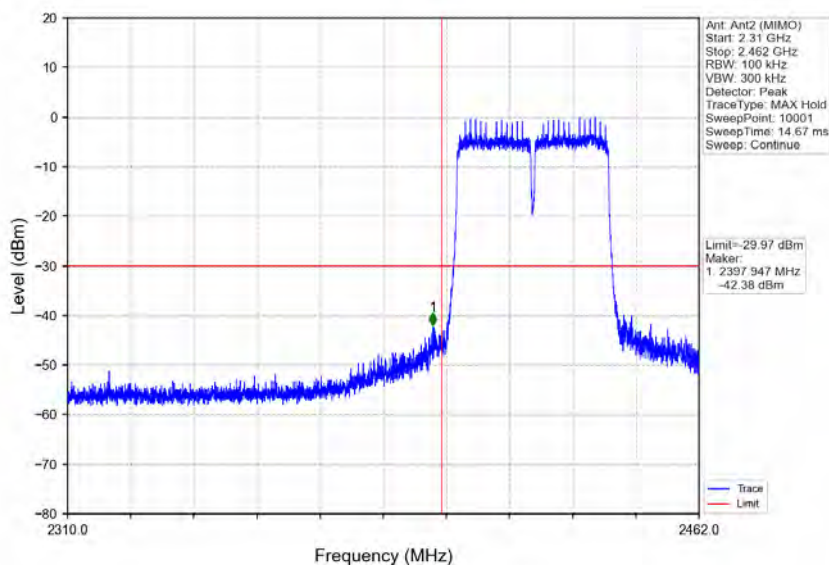
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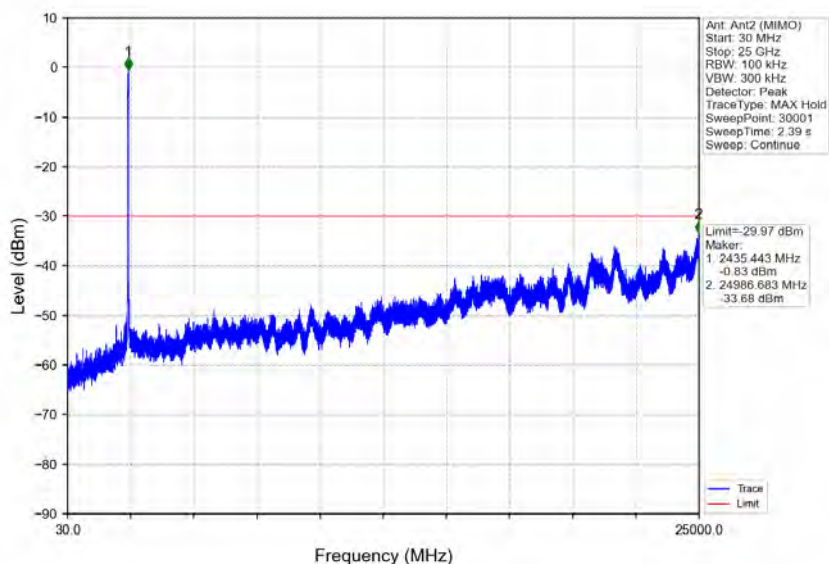
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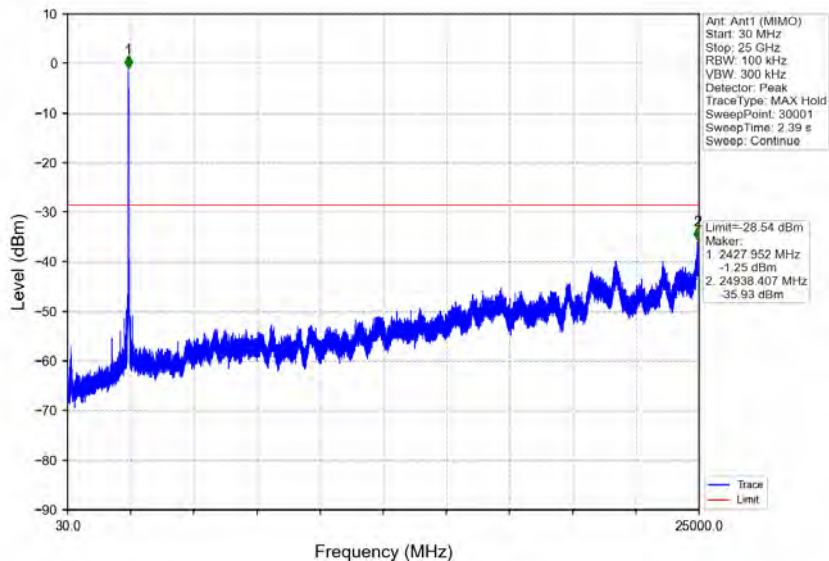
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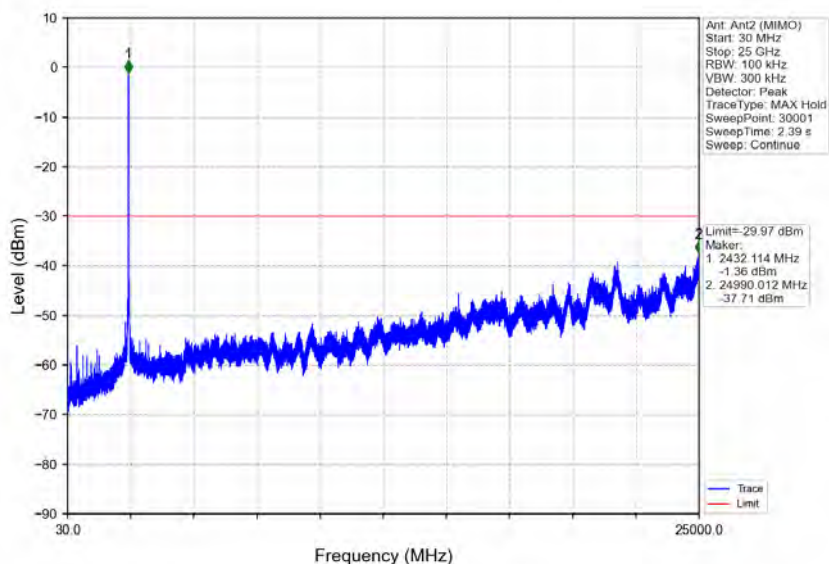
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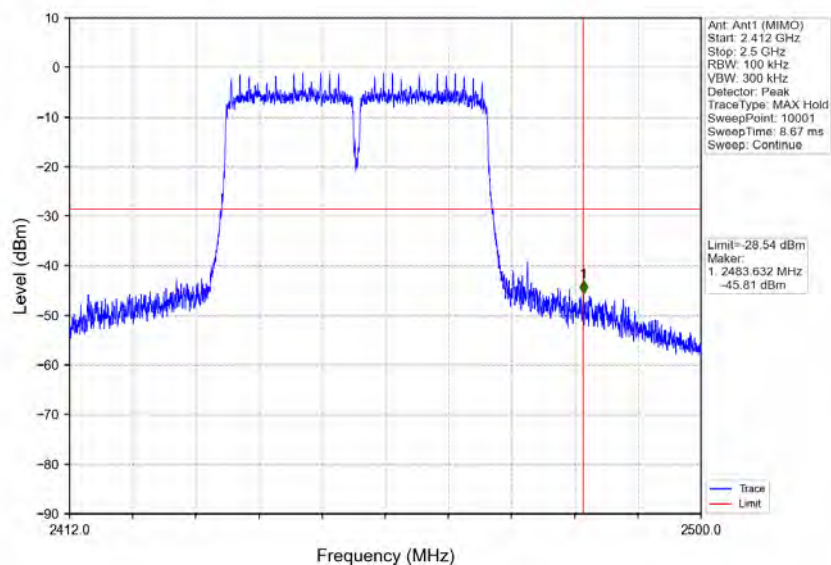
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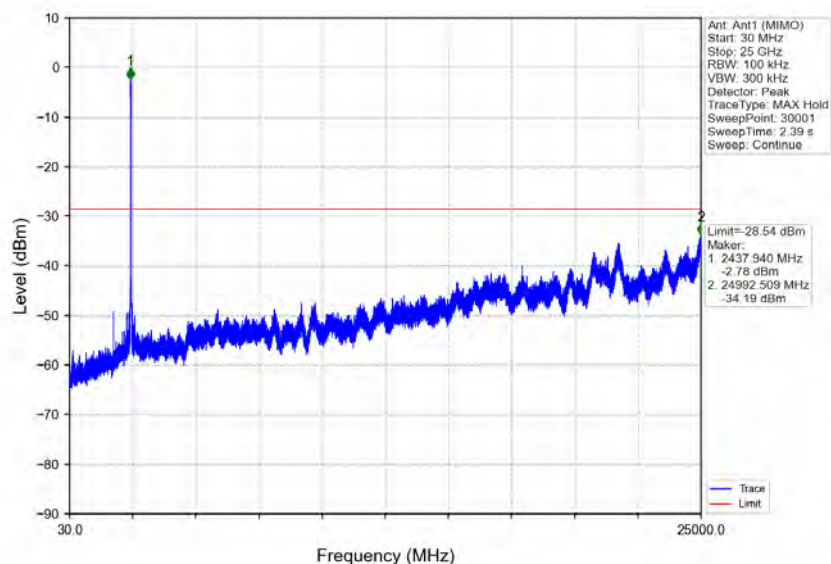
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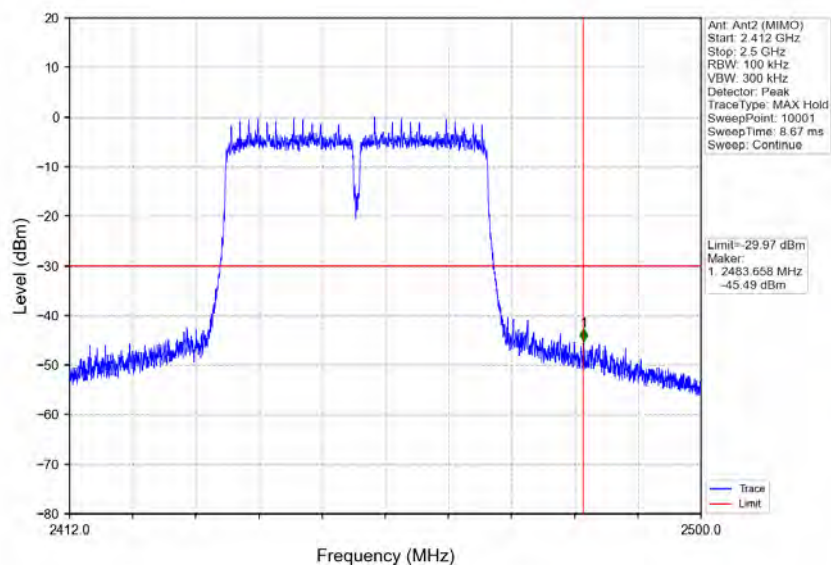
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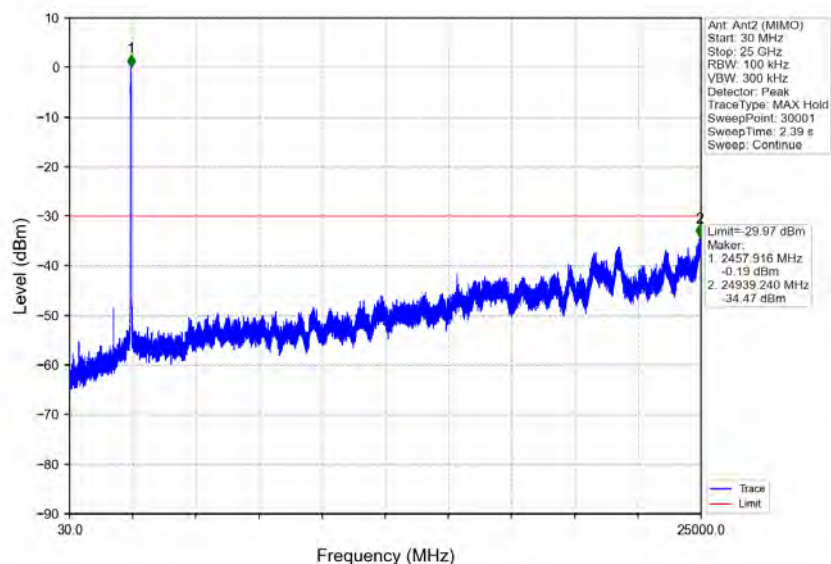
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