Appendix A for KSCR220100002801AT-FCC-Wifi-RTL8812CU

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	12.420	12.907	96.23	0.17	0.88
		2437	12.417	12.877	96.43	0.16	0.81
		2462	12.416	12.906	96.20	0.17	0.70
802.11g	SISO	2412	2.064	2.286	90.29	0.44	4.51
		2437	2.064	2.260	91.33	0.39	3.77
		2462	2.064	2.287	90.25	0.45	4.51
802.11n (HT20)	MIMO	2412	1.920	2.133	90.01	0.46	5.24
		2437	1.920	2.125	90.35	0.44	4.83
		2462	1.919	4.065	47.21	3.26	45.96
802.11n (HT40)	MIMO	2422	0.945	1.166	81.05	0.91	9.04
		2437	0.944	1.157	81.59	0.88	9.18
		2452	0.944	1.175	80.34	0.95	9.63

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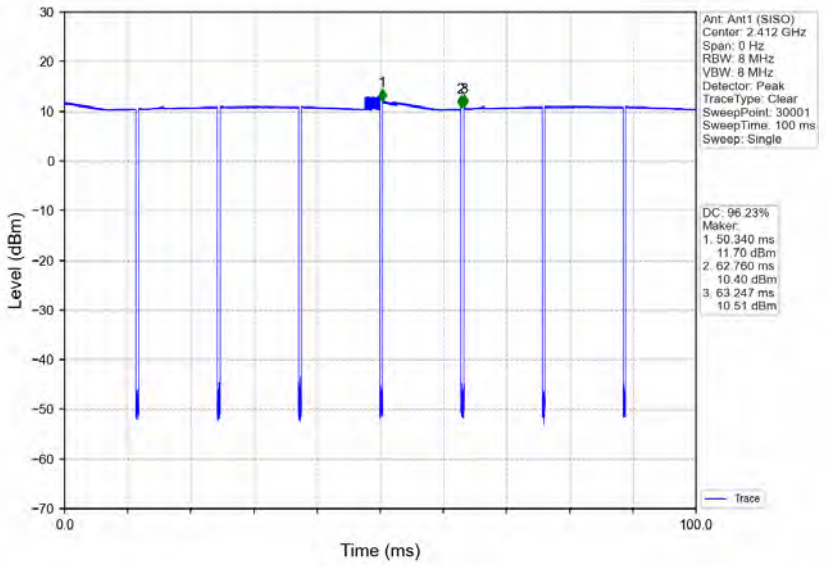
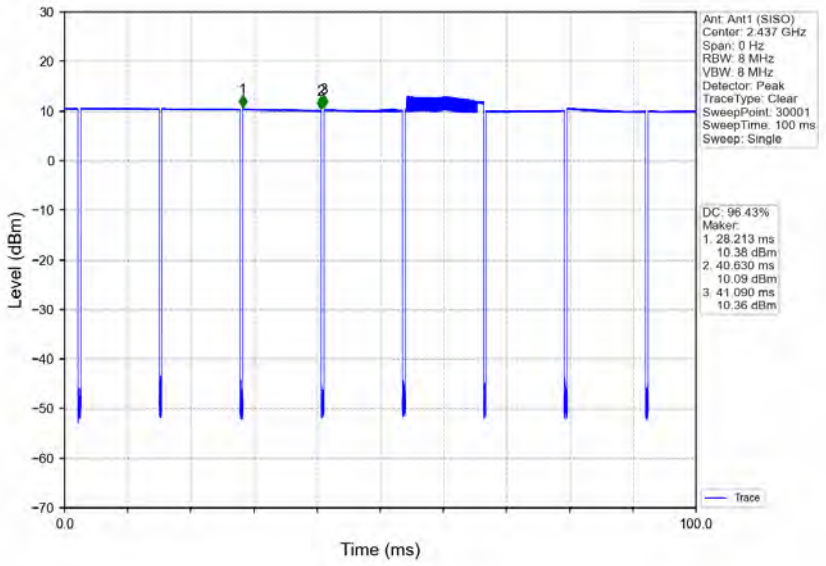
1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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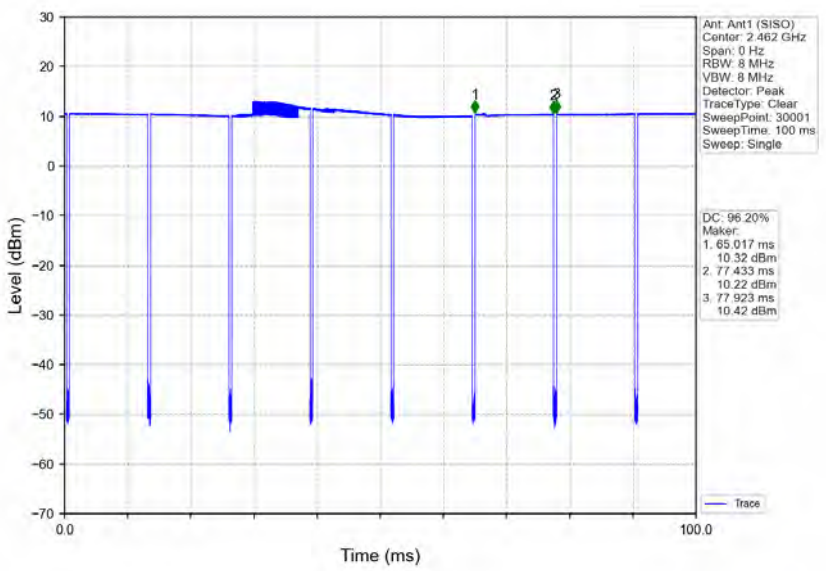
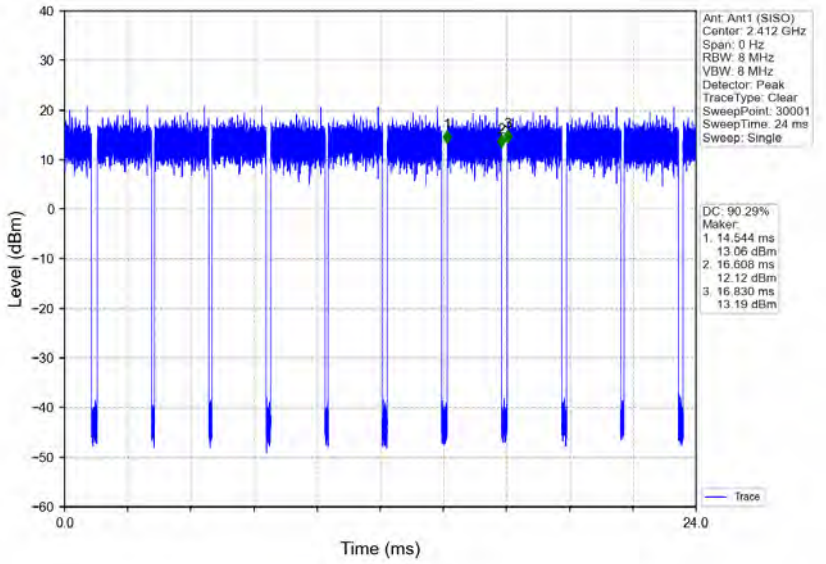
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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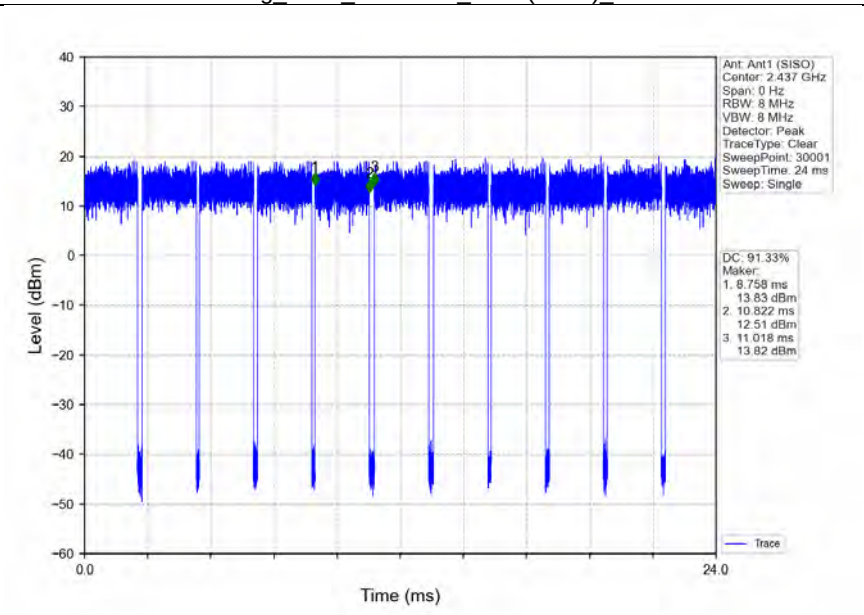
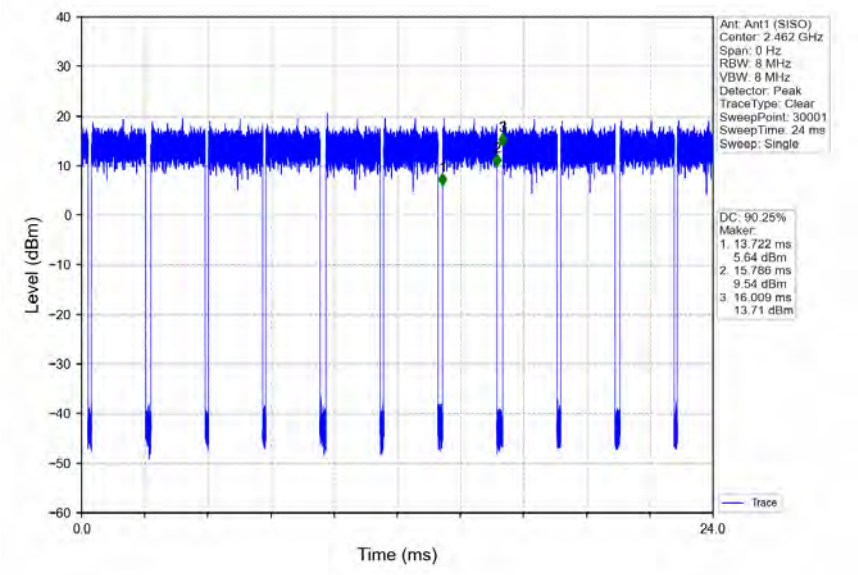
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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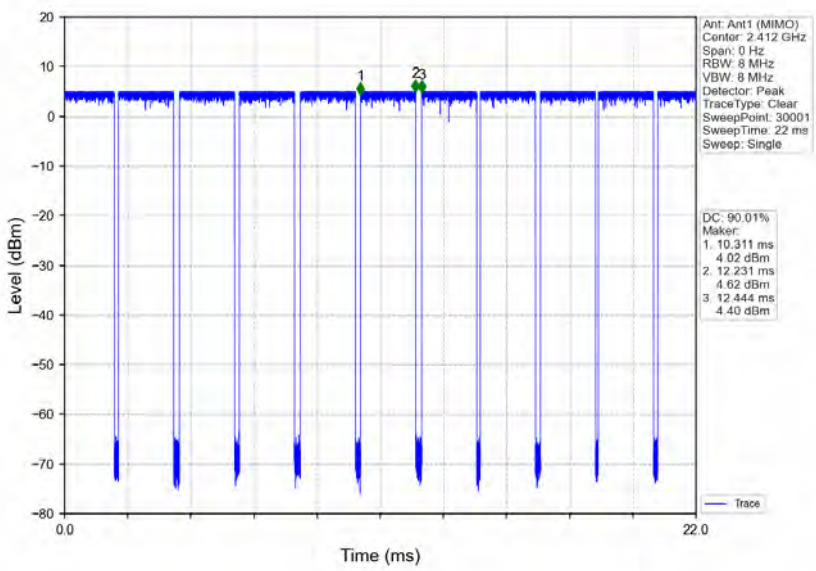
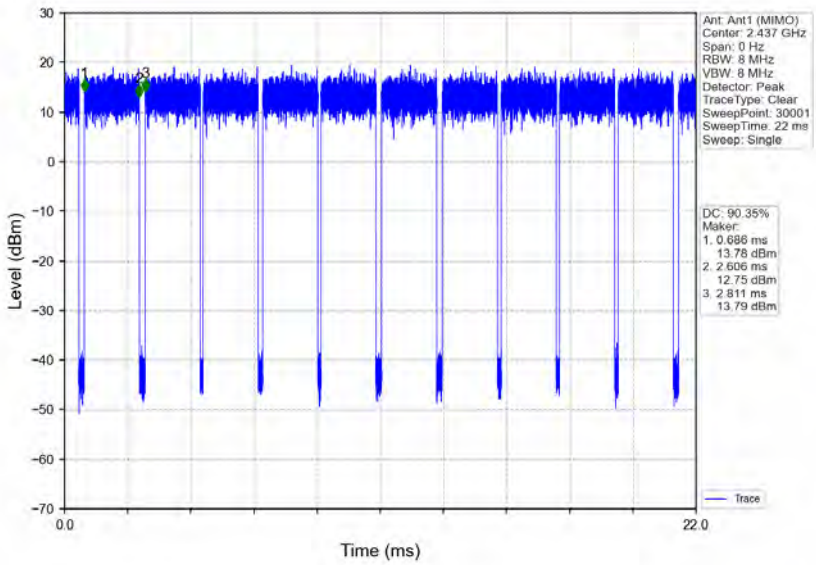
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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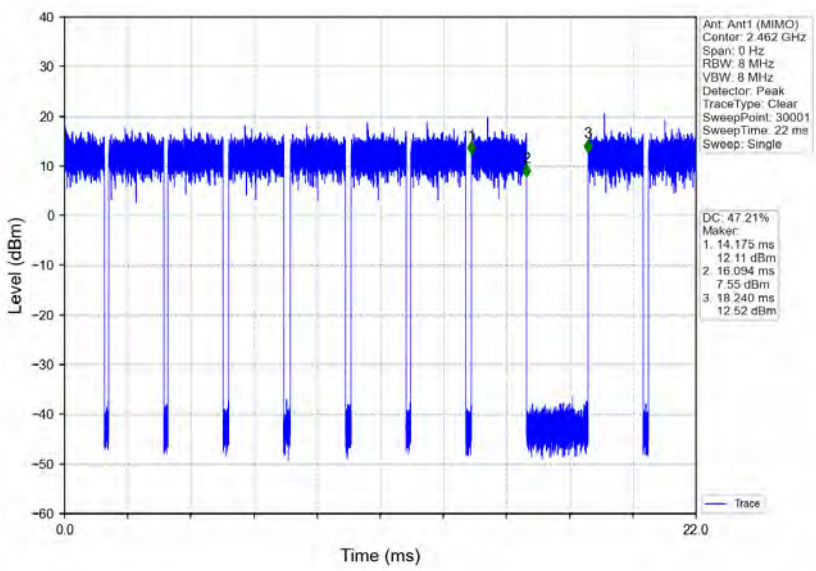
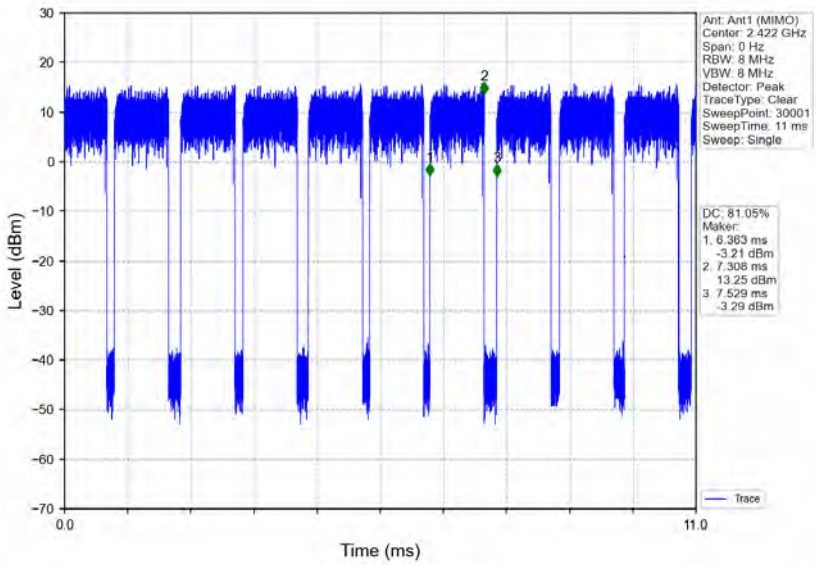
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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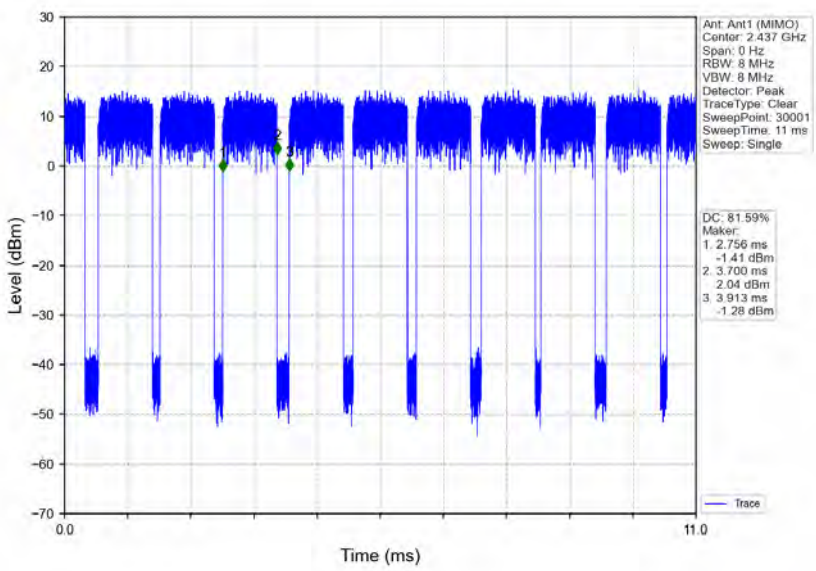
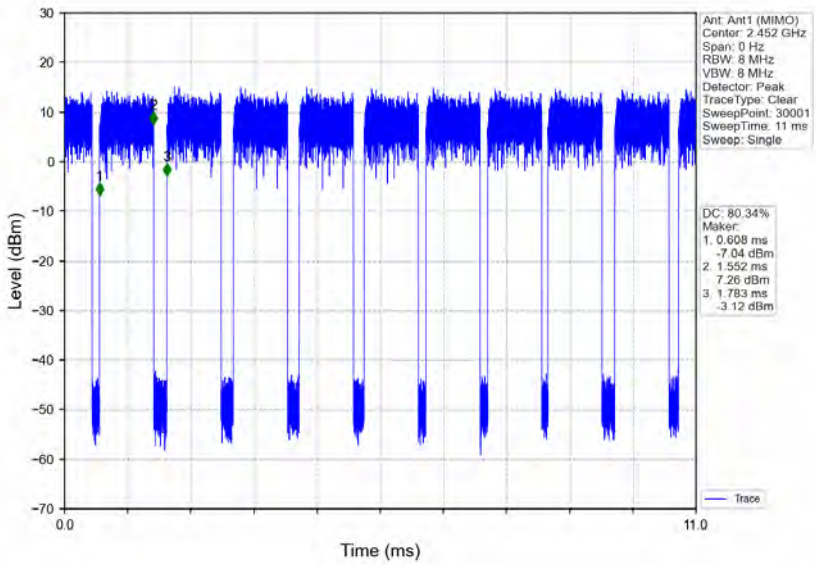
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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) Result	Verdict
802.11b	SISO	2412	1	14.852	Pass
			2	14.770	Pass
		2437	1	14.960	Pass
			2	14.889	Pass
		2462	1	14.945	Pass
			2	14.912	Pass
802.11g	SISO	2412	1	17.339	Pass
			2	17.196	Pass
		2437	1	17.332	Pass
			2	17.299	Pass
		2462	1	17.229	Pass
			2	17.305	Pass
802.11n (HT20)	MIMO	2412	1	18.407	Pass
			2	18.379	Pass
		2437	1	18.345	Pass
			2	18.458	Pass
		2462	1	18.526	Pass
			2	18.329	Pass
802.11n (HT40)	MIMO	2422	1	36.560	Pass
			2	36.704	Pass
		2437	1	36.414	Pass
			2	36.411	Pass
		2452	1	36.363	Pass
			2	36.467	Pass

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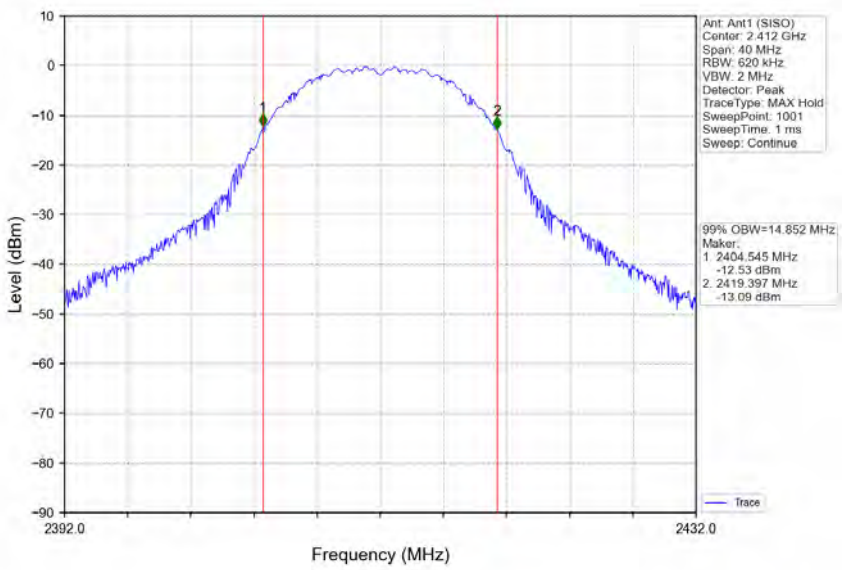
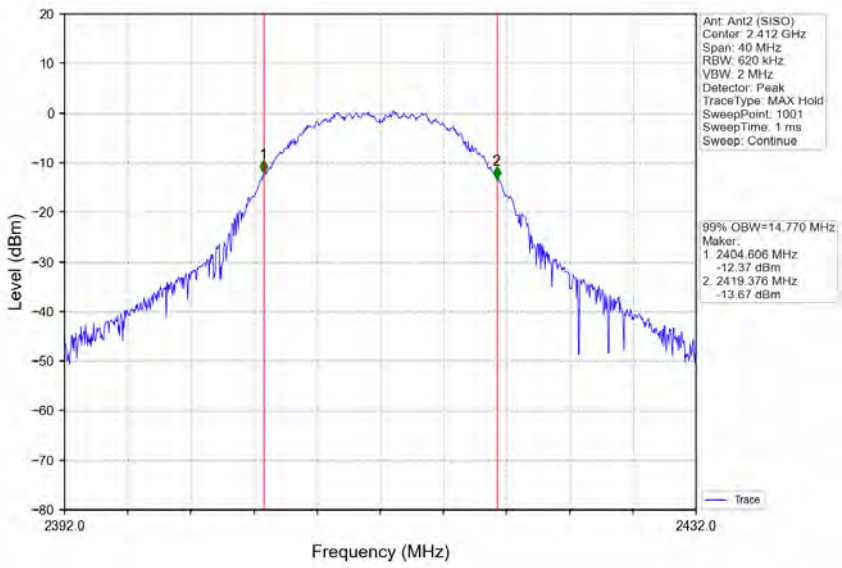
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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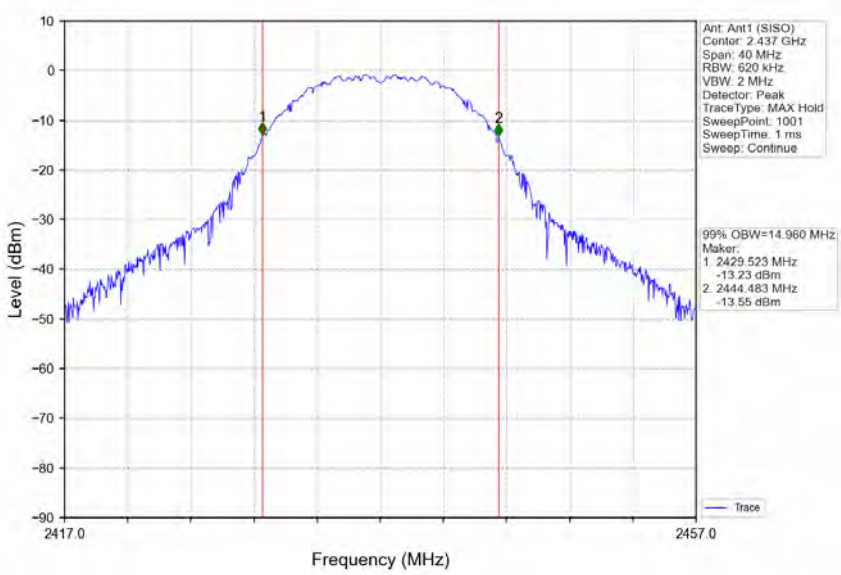
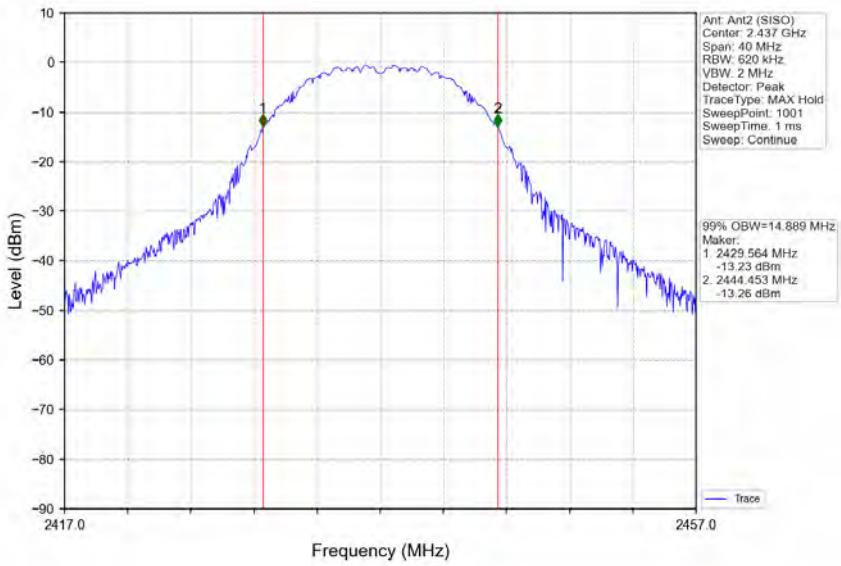
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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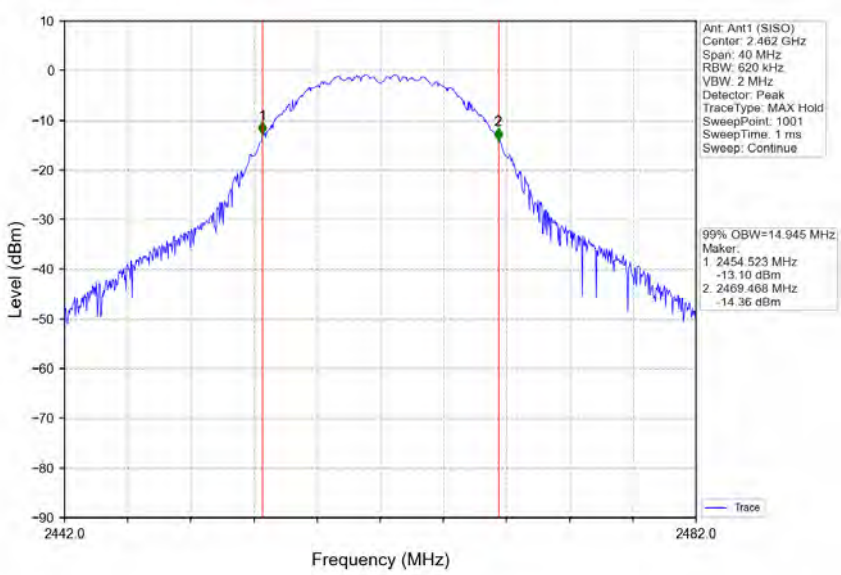
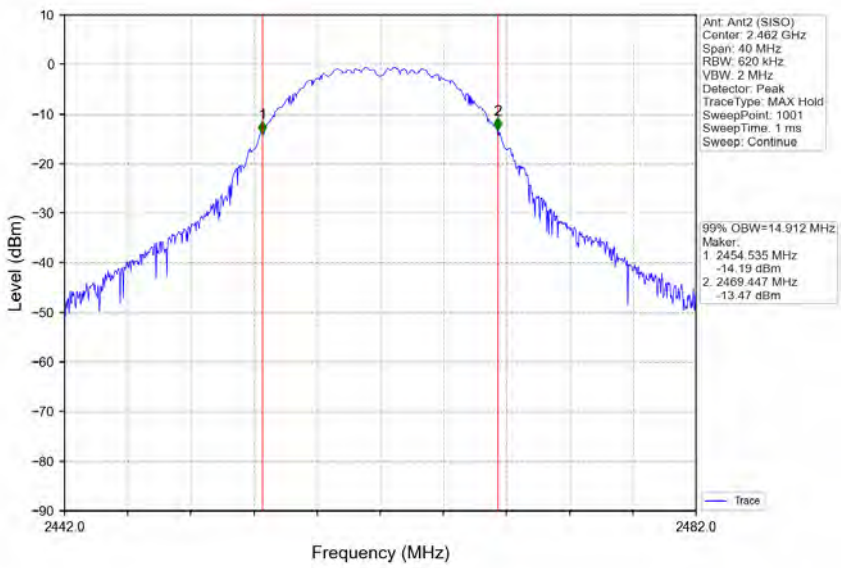
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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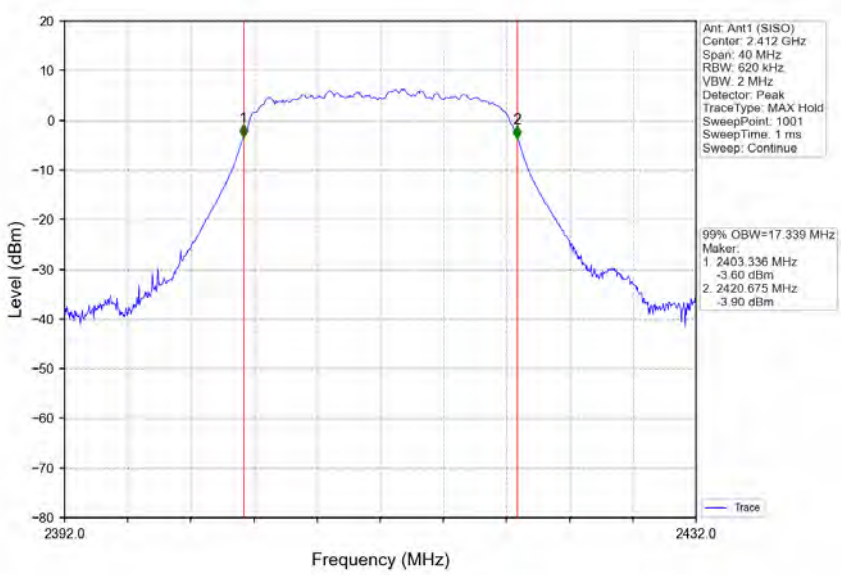
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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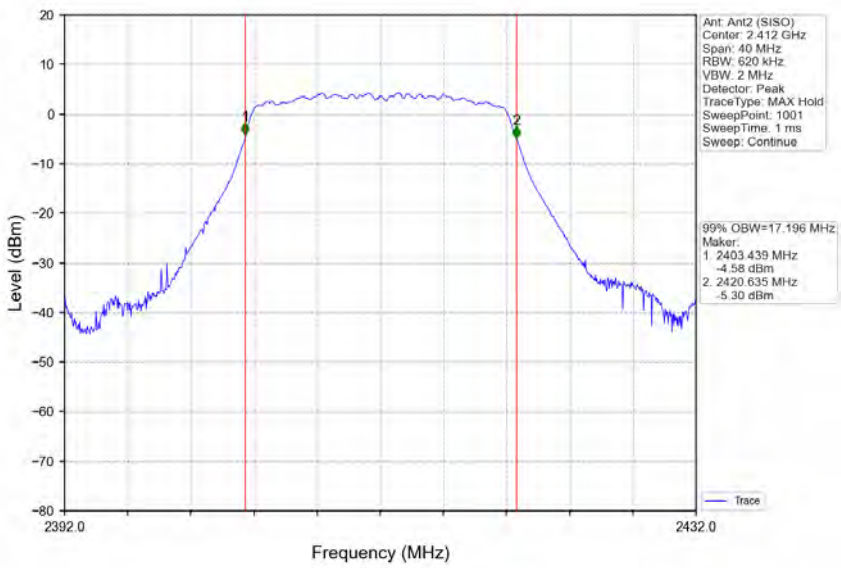

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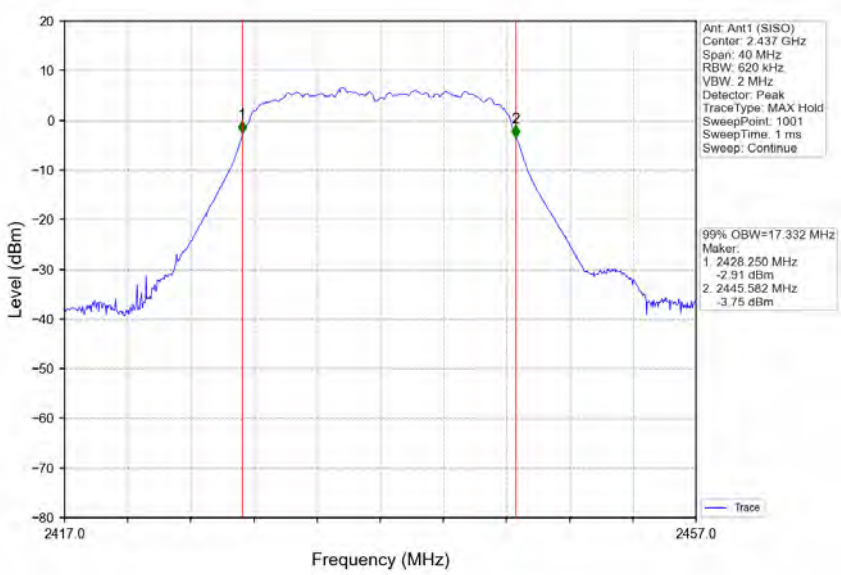
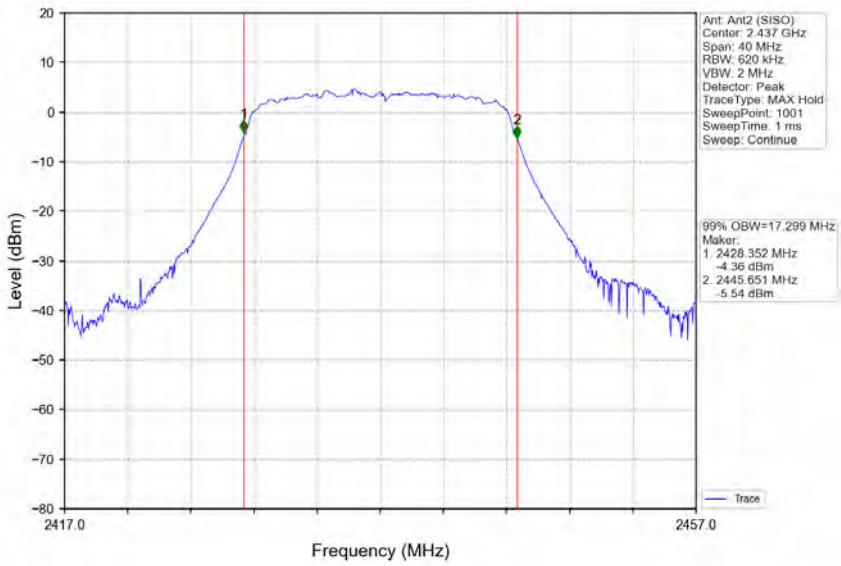
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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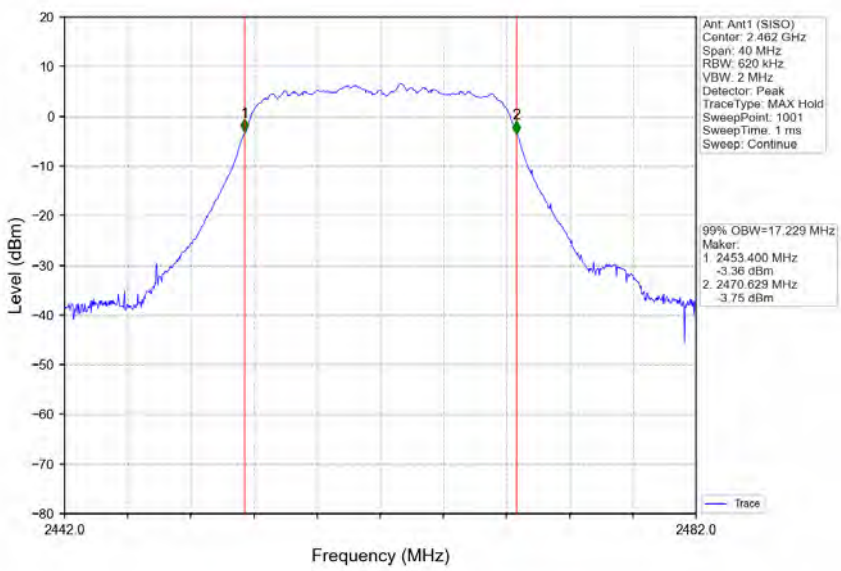
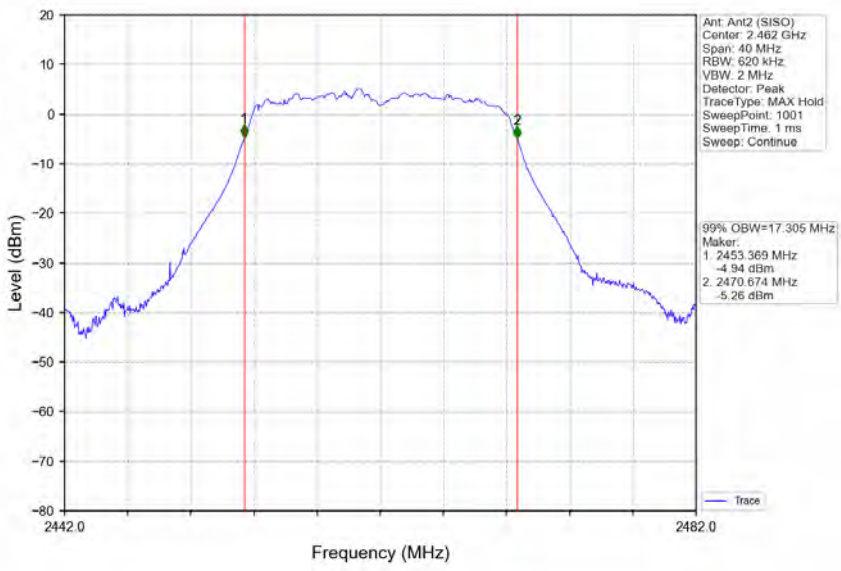
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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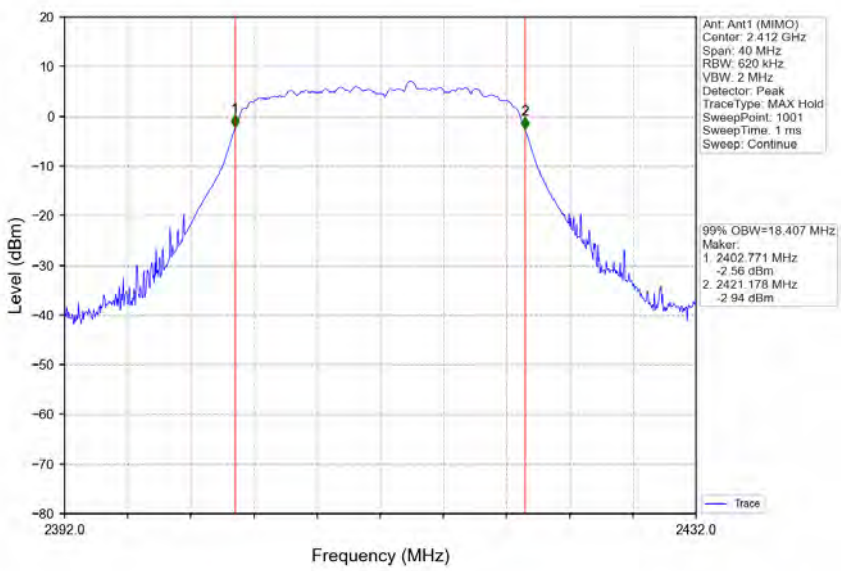
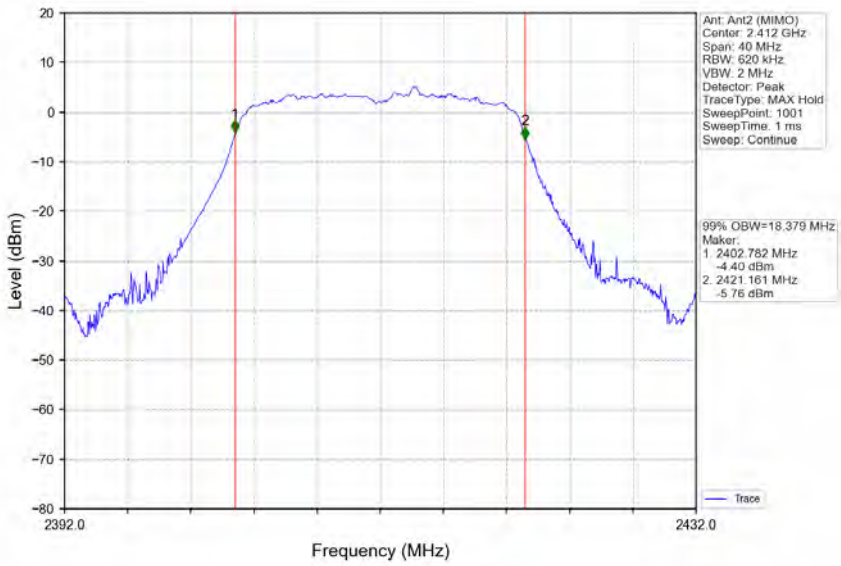
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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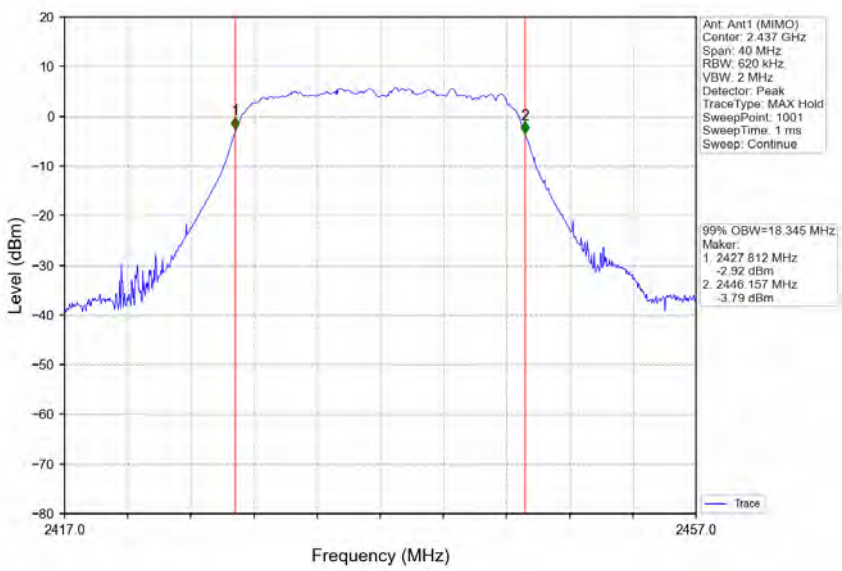
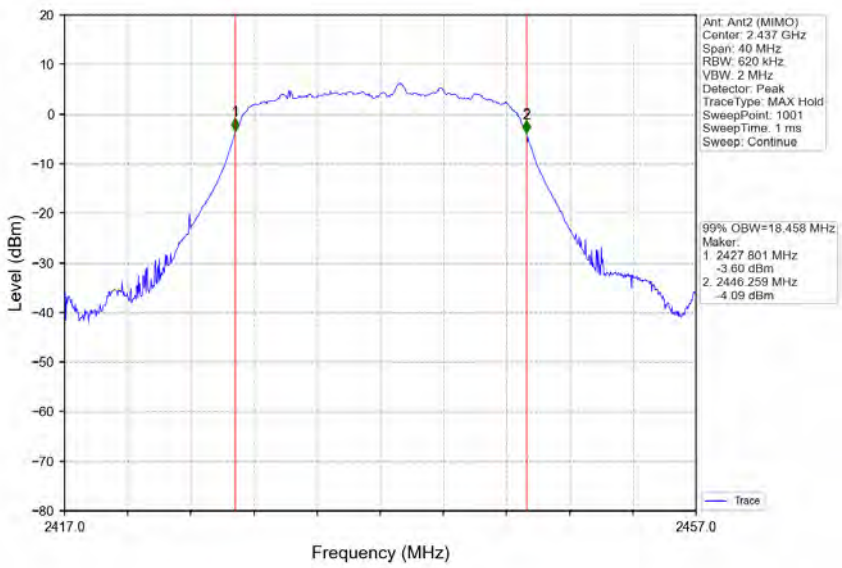
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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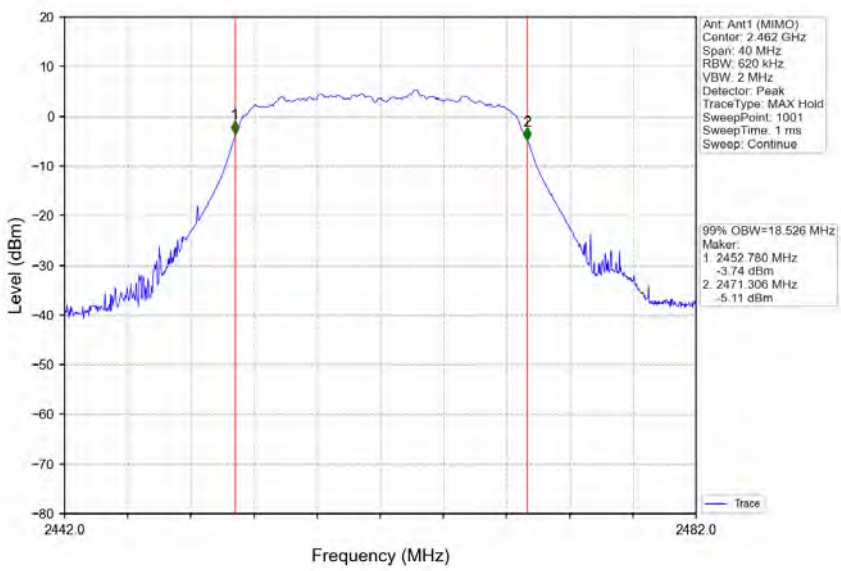
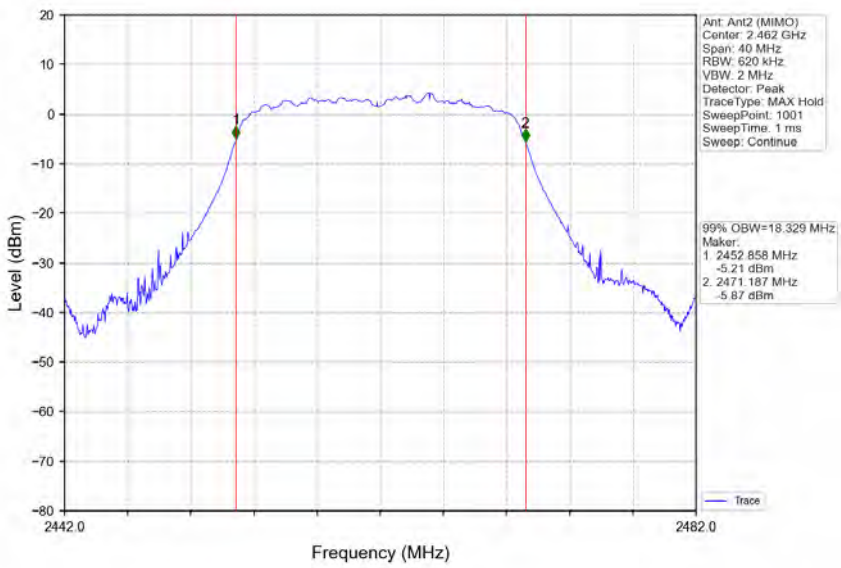
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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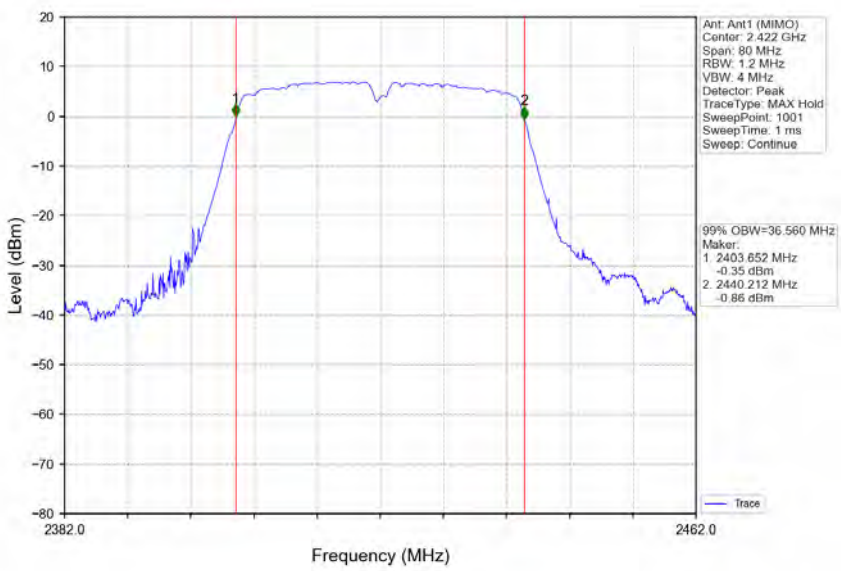
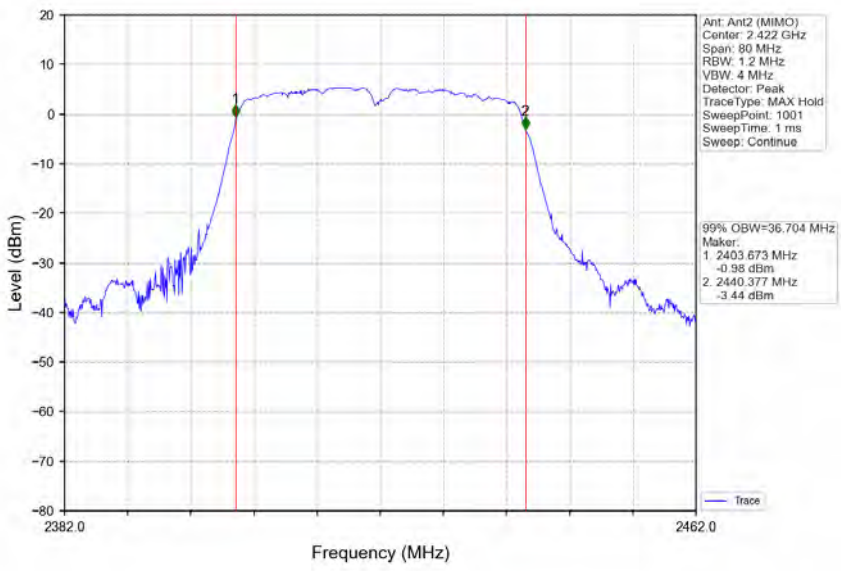
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



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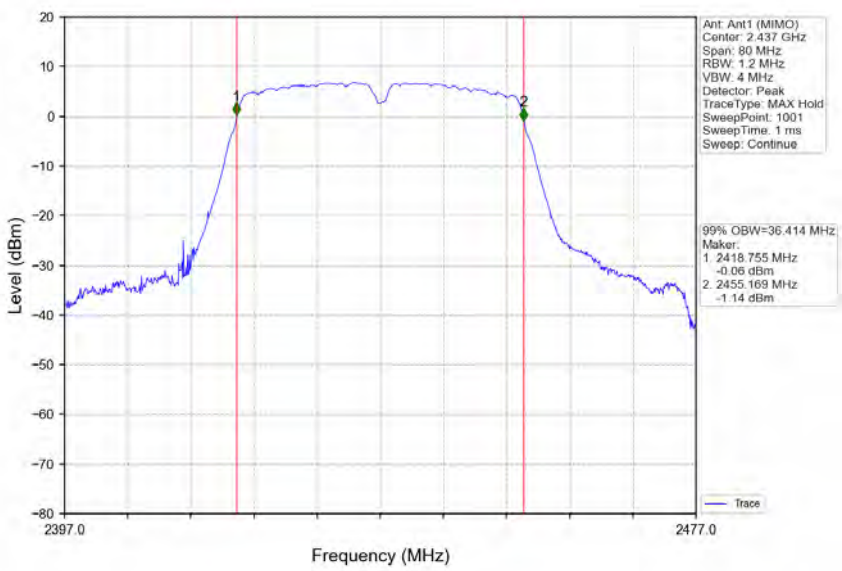
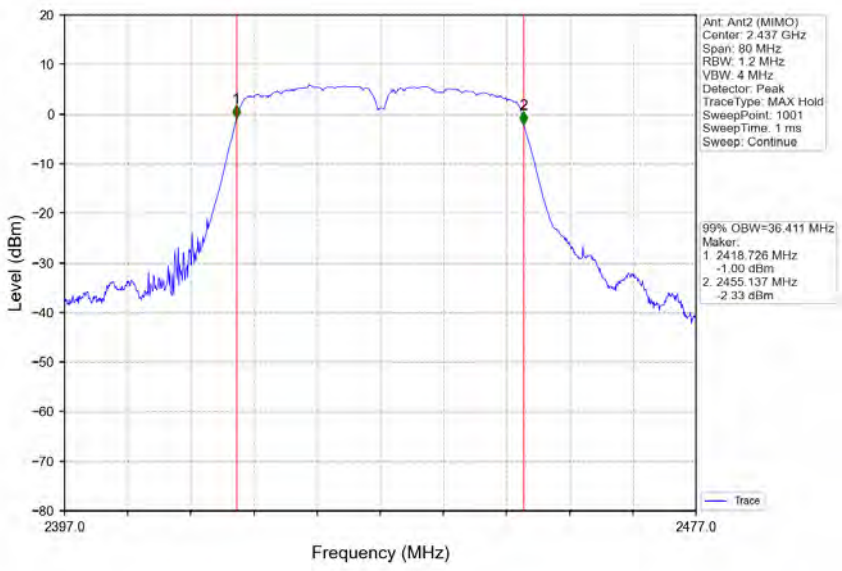
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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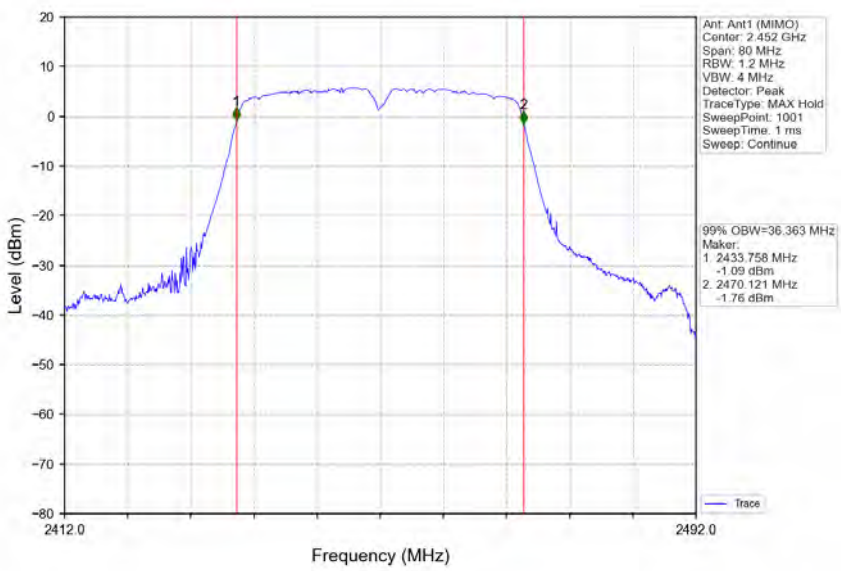
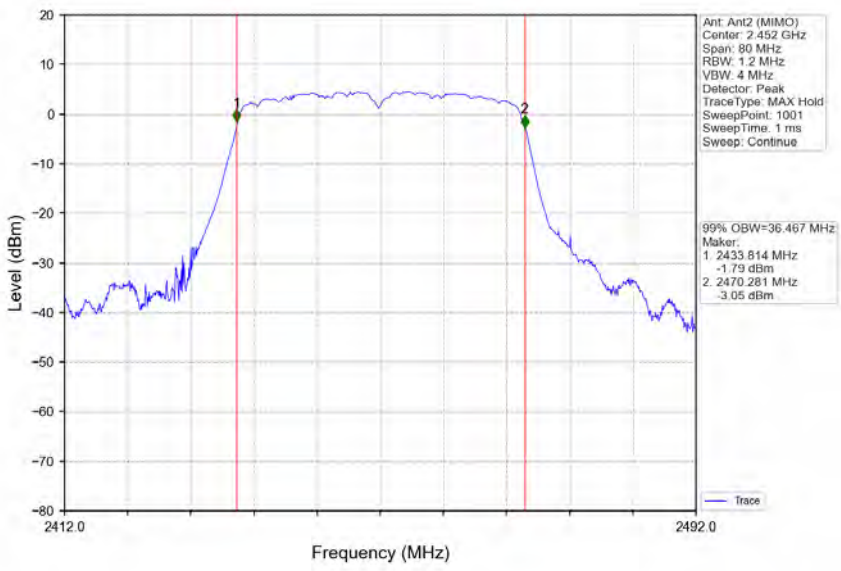
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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	10.126	>=0.5	Pass
			2	10.127	>=0.5	Pass
		2437	1	10.129	>=0.5	Pass
			2	10.127	>=0.5	Pass
		2462	1	10.131	>=0.5	Pass
			2	10.128	>=0.5	Pass
802.11g	SISO	2412	1	15.832	>=0.5	Pass
			2	15.871	>=0.5	Pass
		2437	1	15.858	>=0.5	Pass
			2	15.858	>=0.5	Pass
		2462	1	15.686	>=0.5	Pass
			2	15.821	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	16.325	>=0.5	Pass
			2	16.207	>=0.5	Pass
		2437	1	16.440	>=0.5	Pass
			2	16.324	>=0.5	Pass
		2462	1	16.340	>=0.5	Pass
			2	16.929	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.175	>=0.5	Pass
			2	35.175	>=0.5	Pass
		2437	1	35.180	>=0.5	Pass
			2	35.176	>=0.5	Pass
		2452	1	35.177	>=0.5	Pass
			2	35.172	>=0.5	Pass

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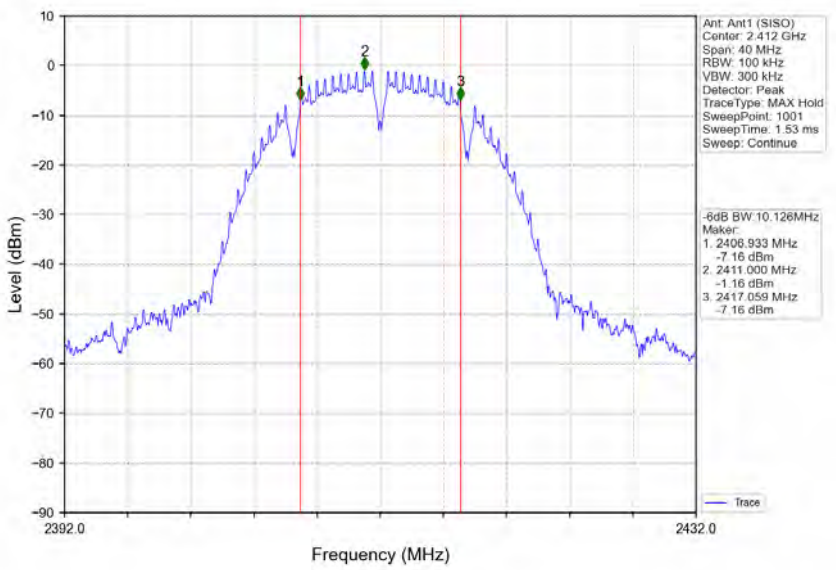
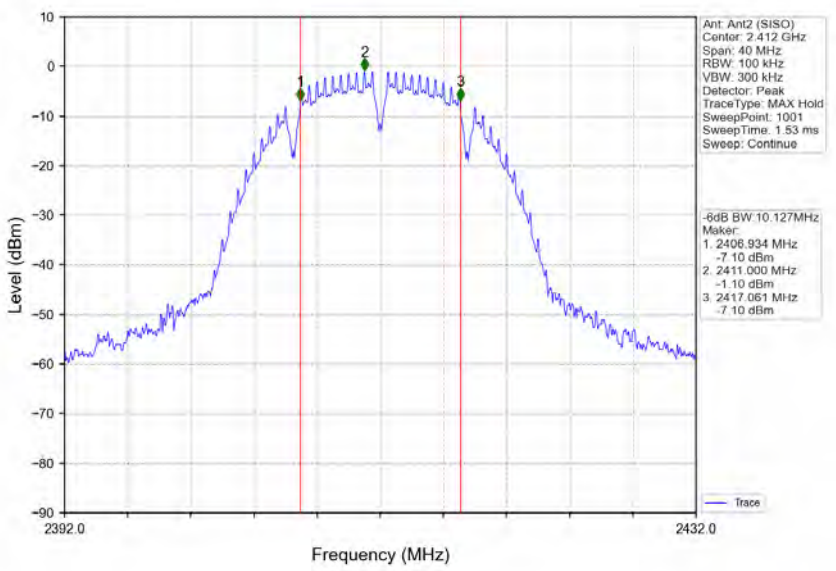
2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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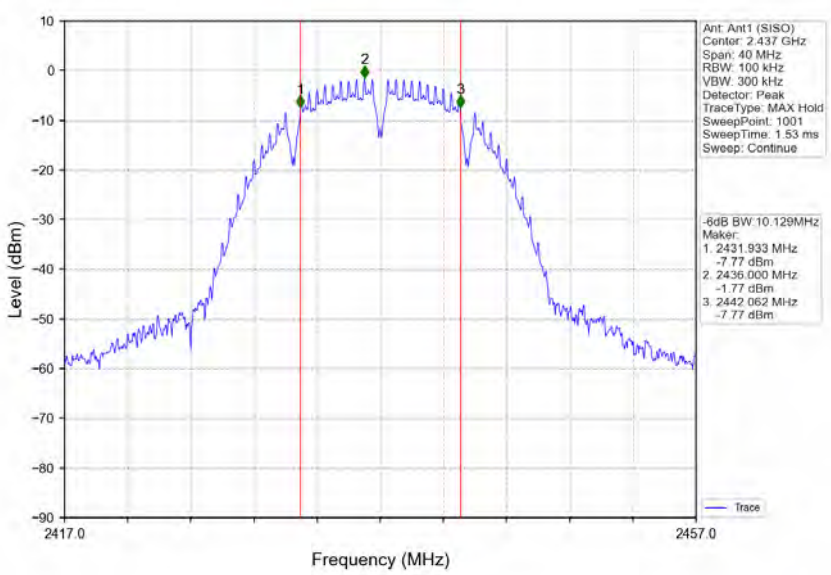
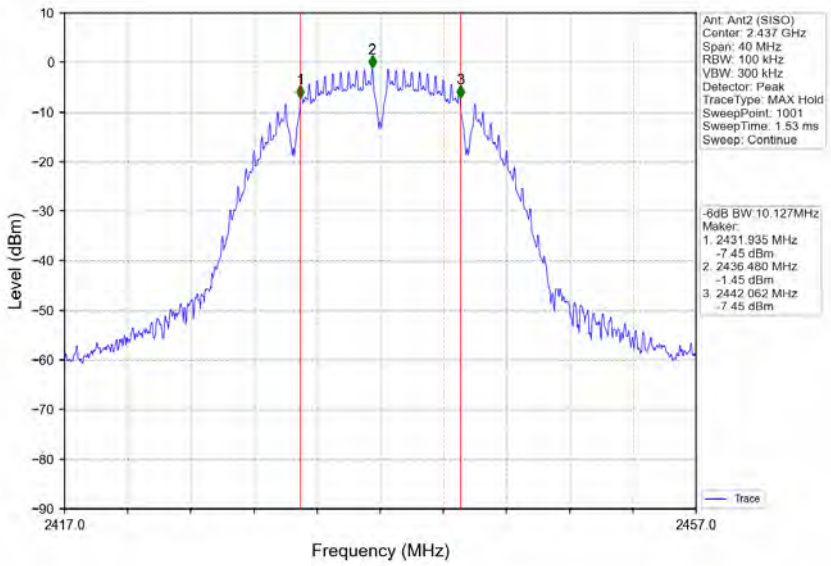
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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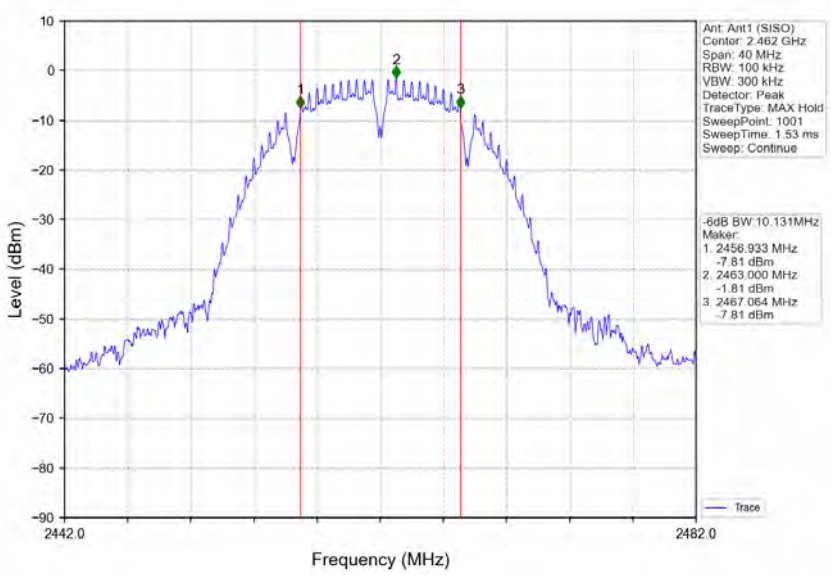
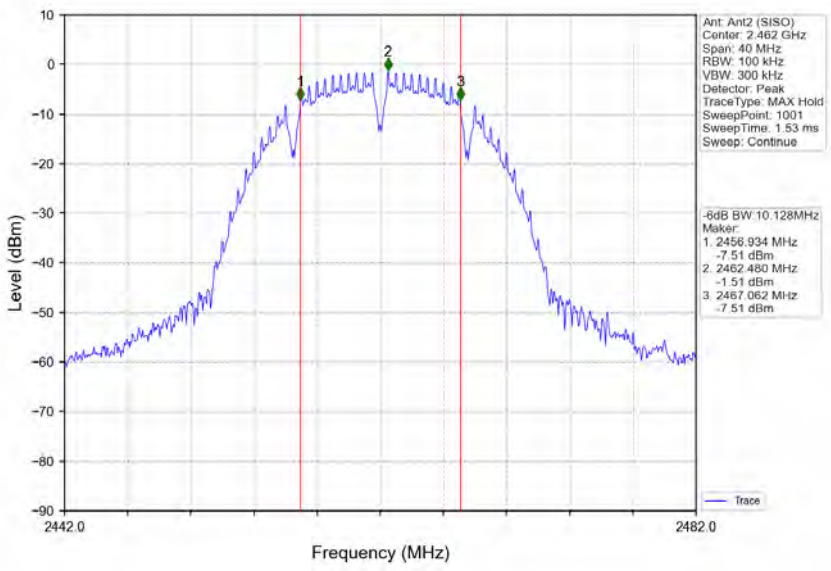
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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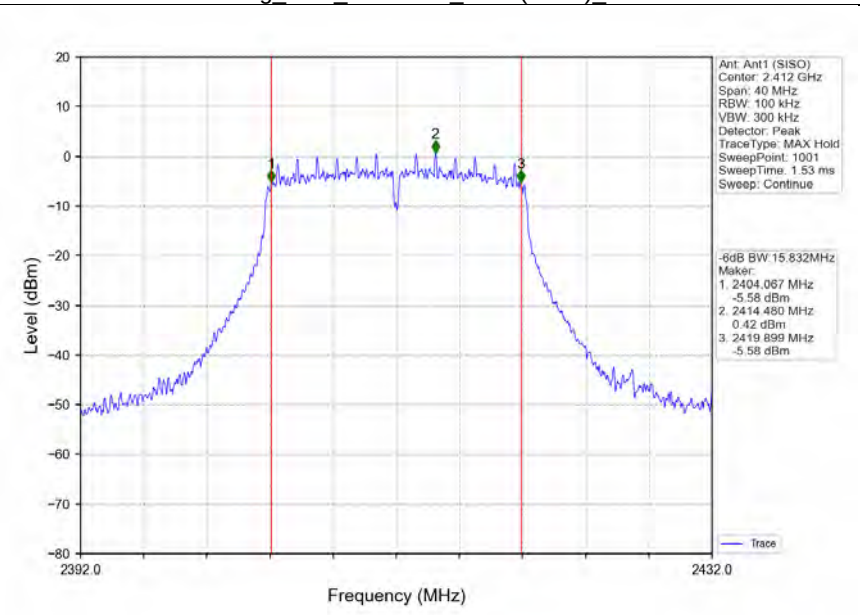
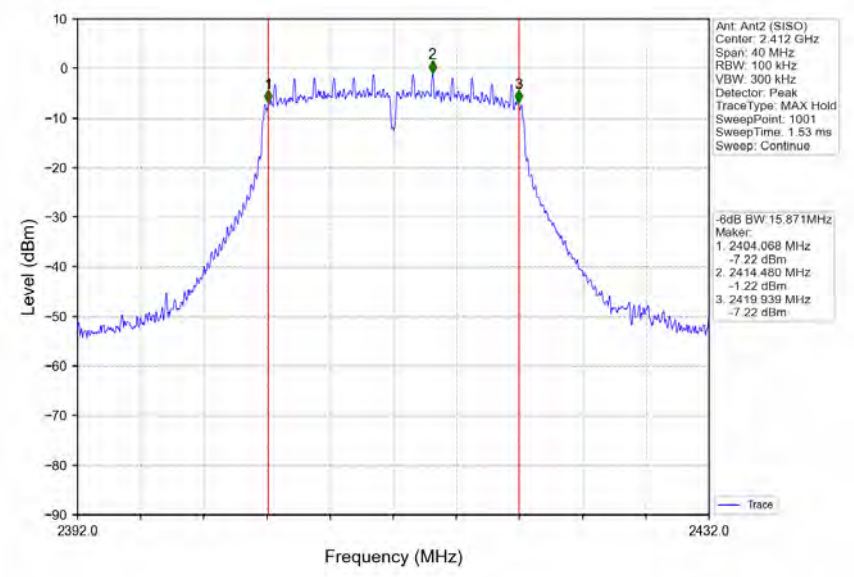
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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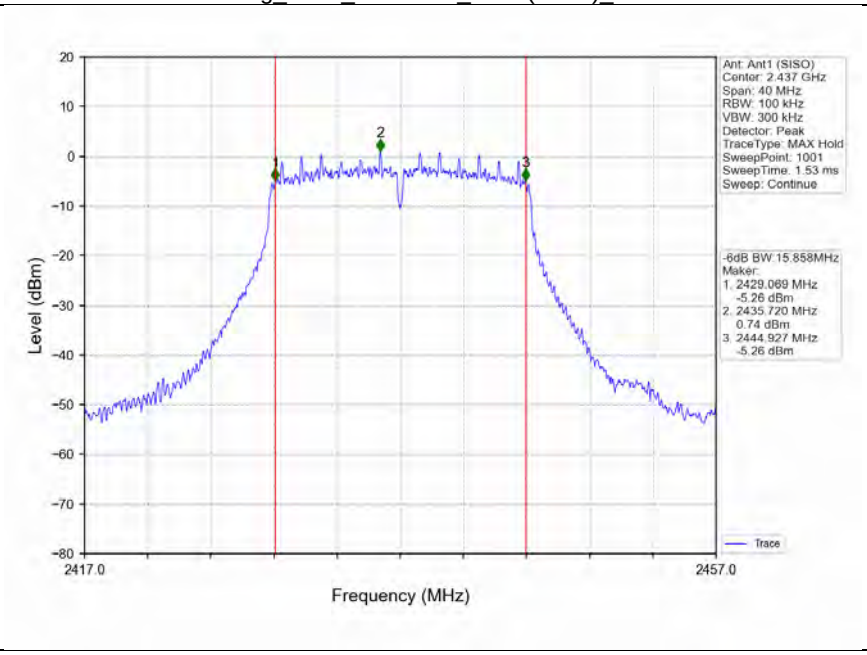
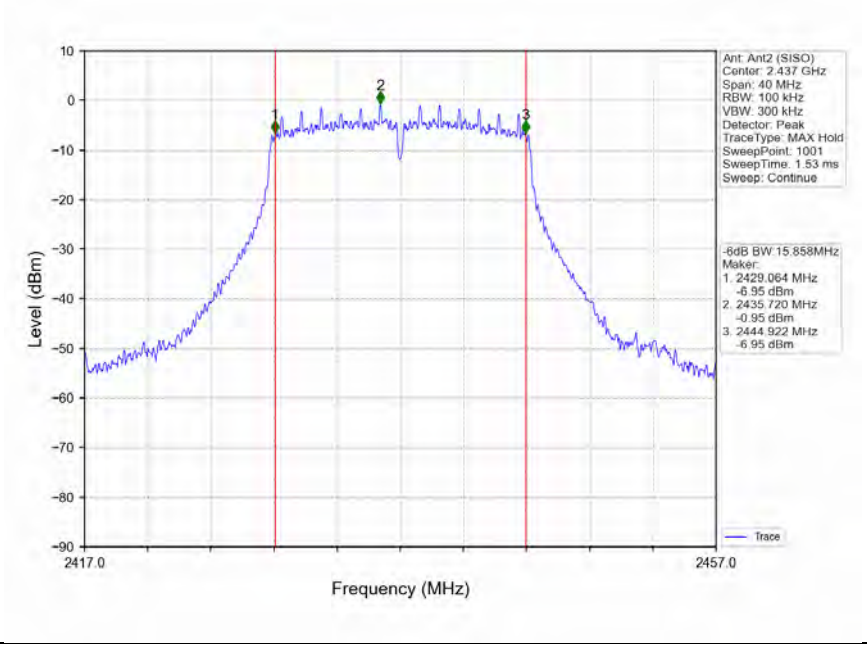
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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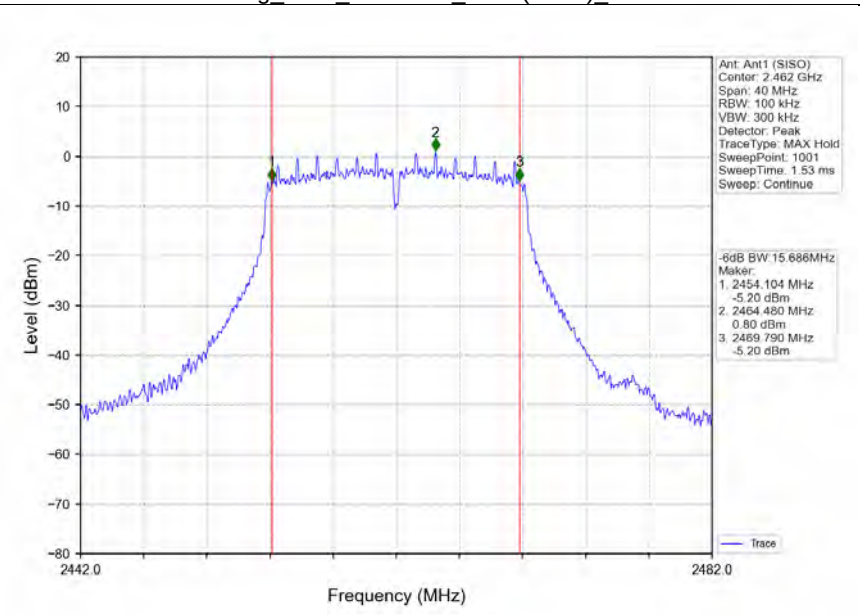
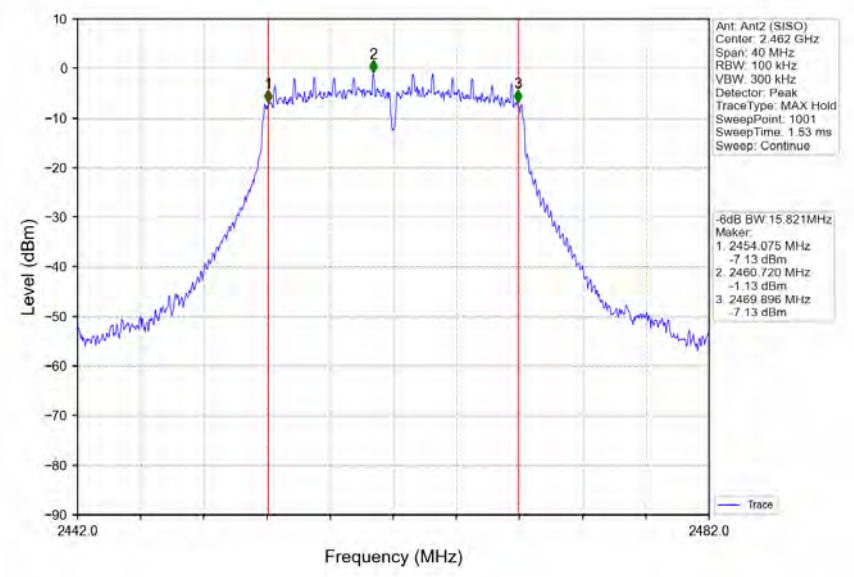
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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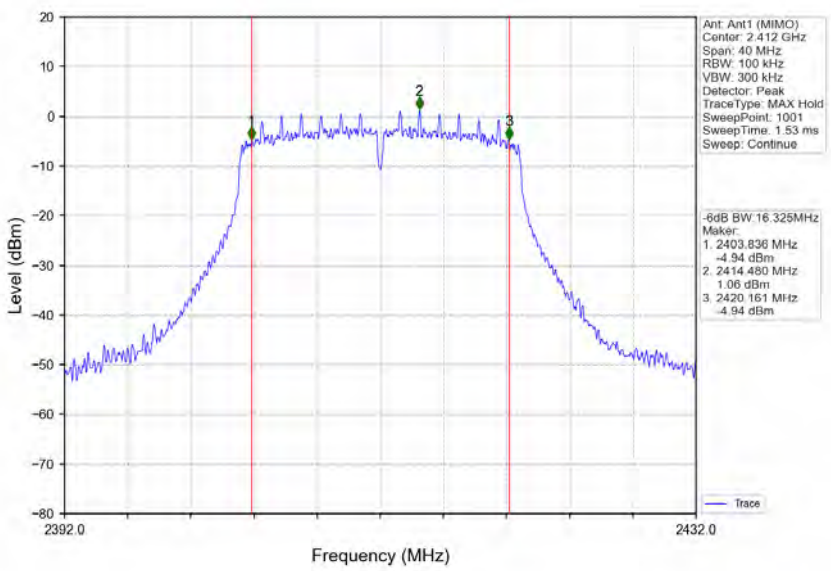
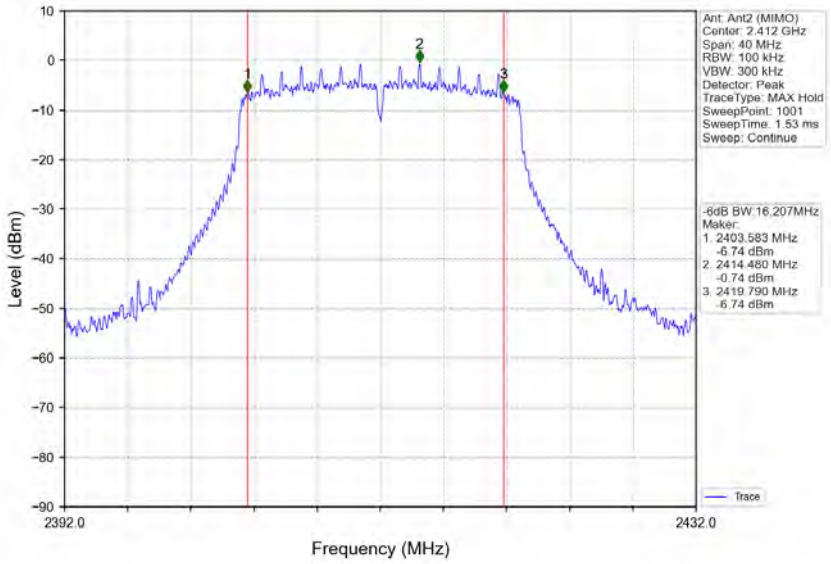
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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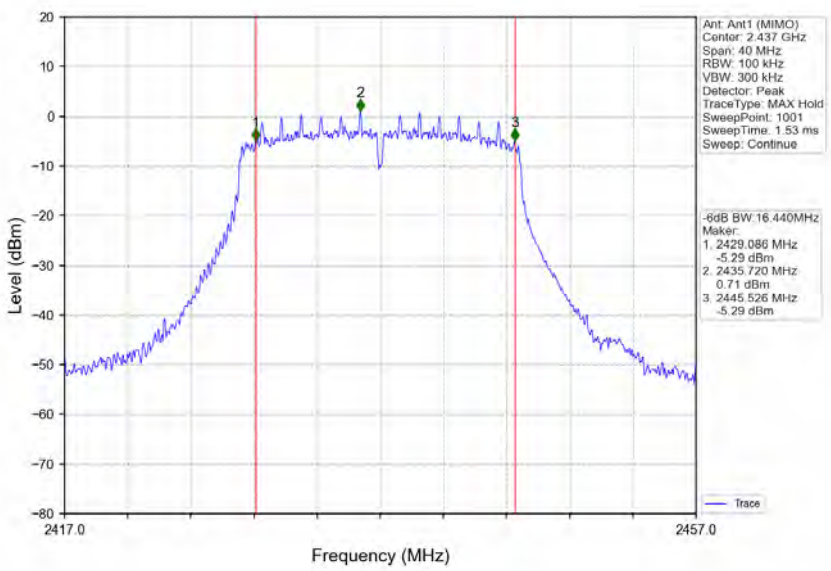
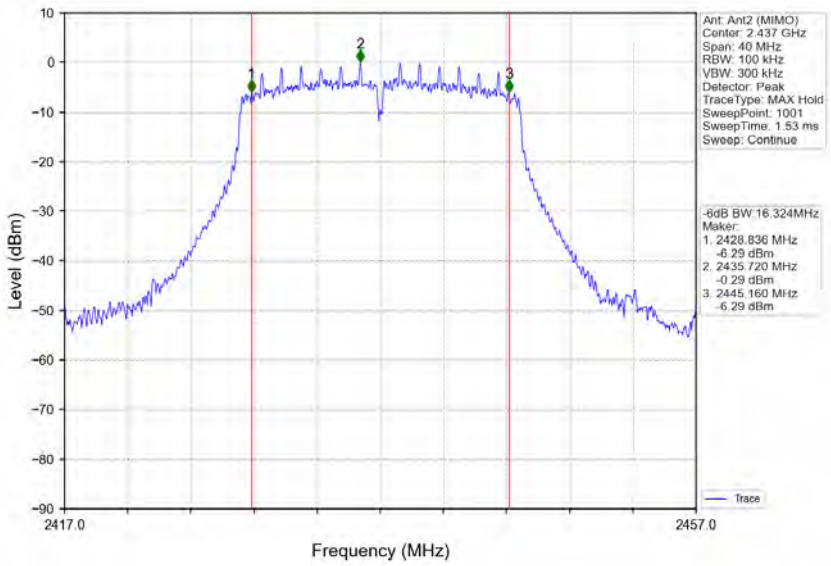
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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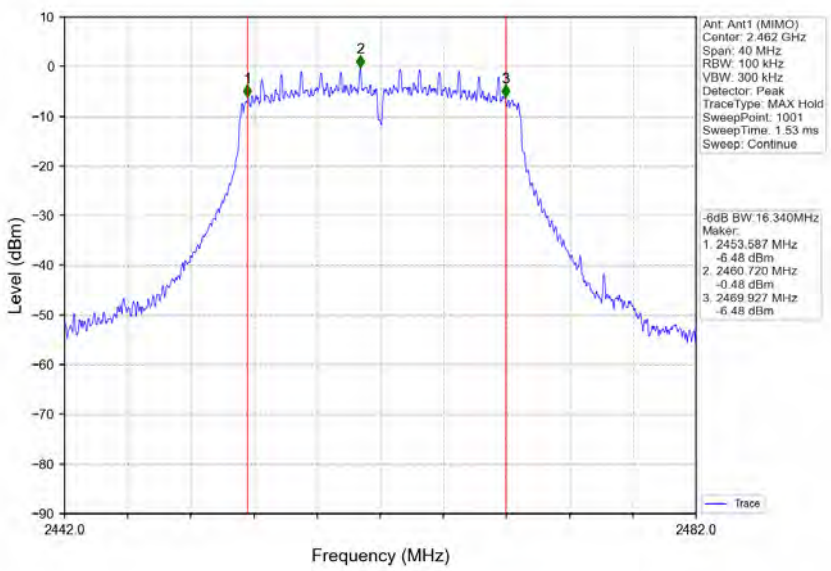
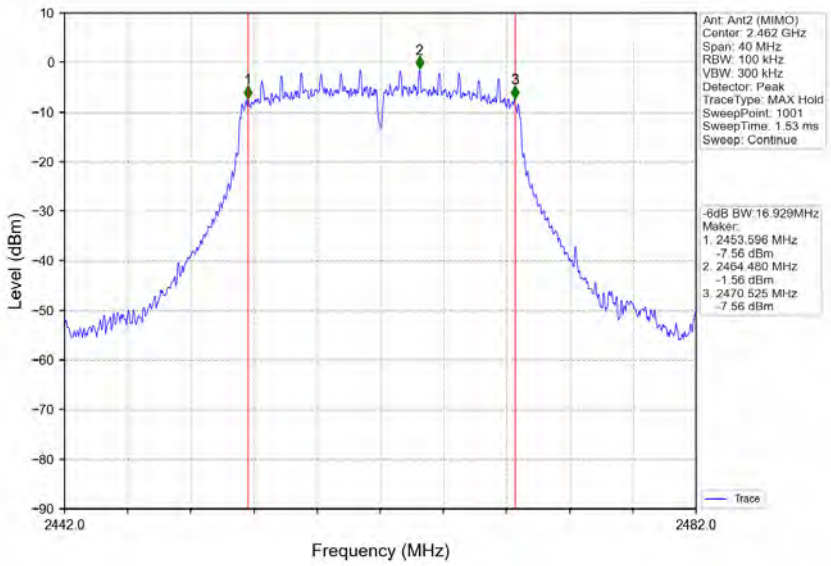
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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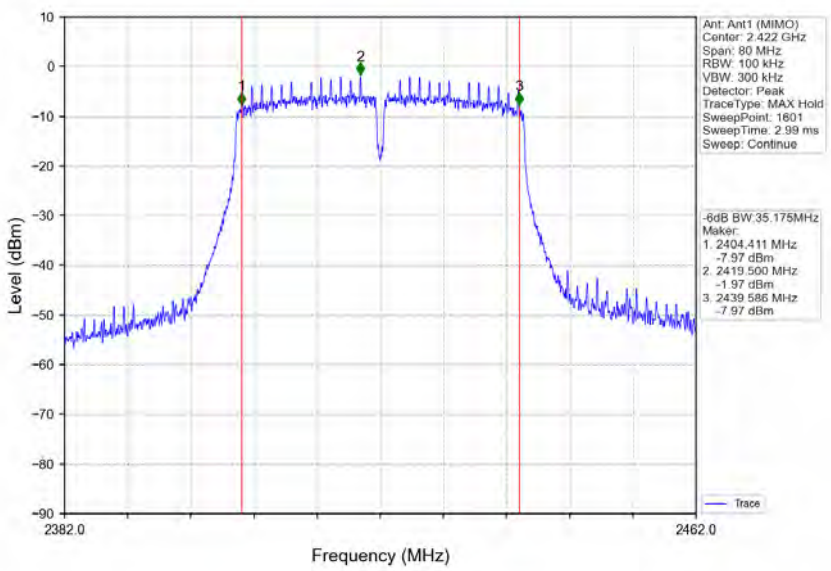
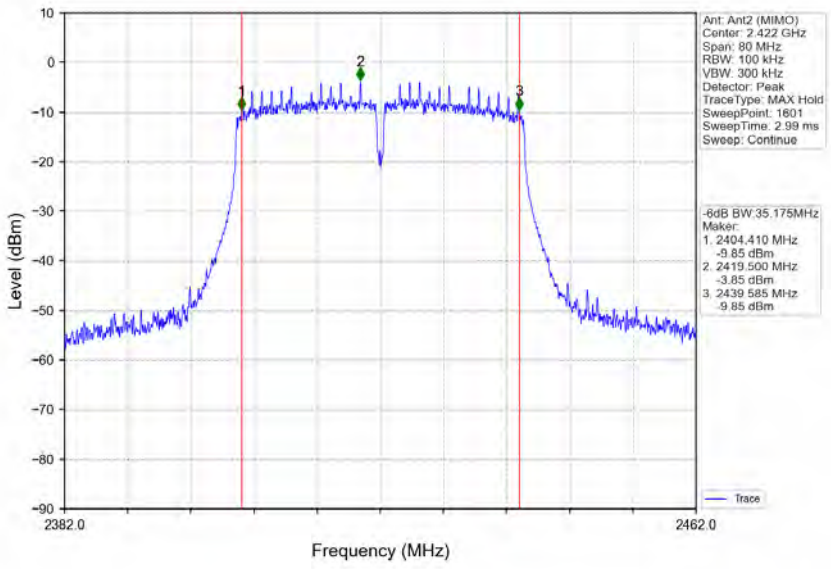
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



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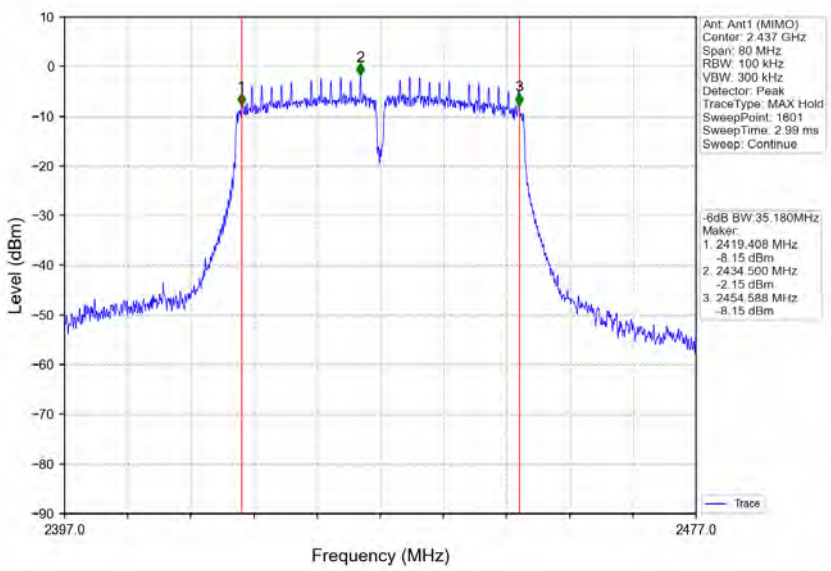
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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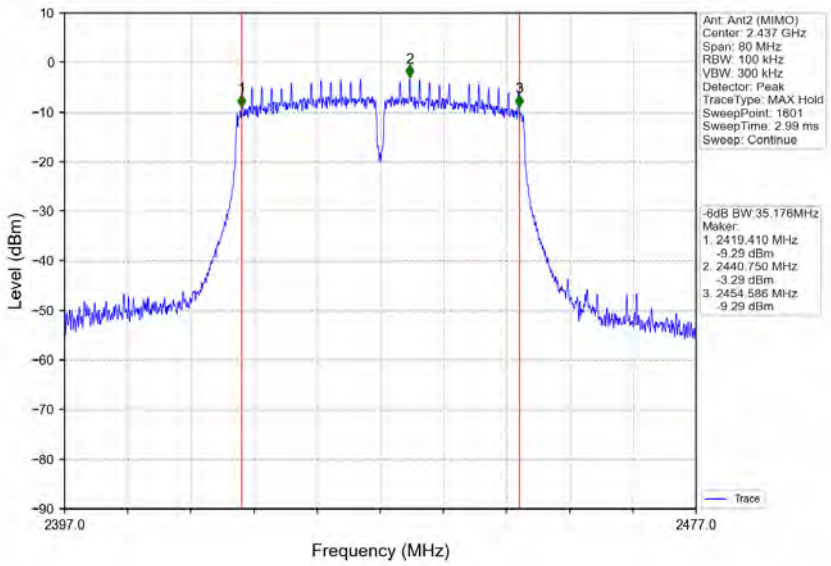

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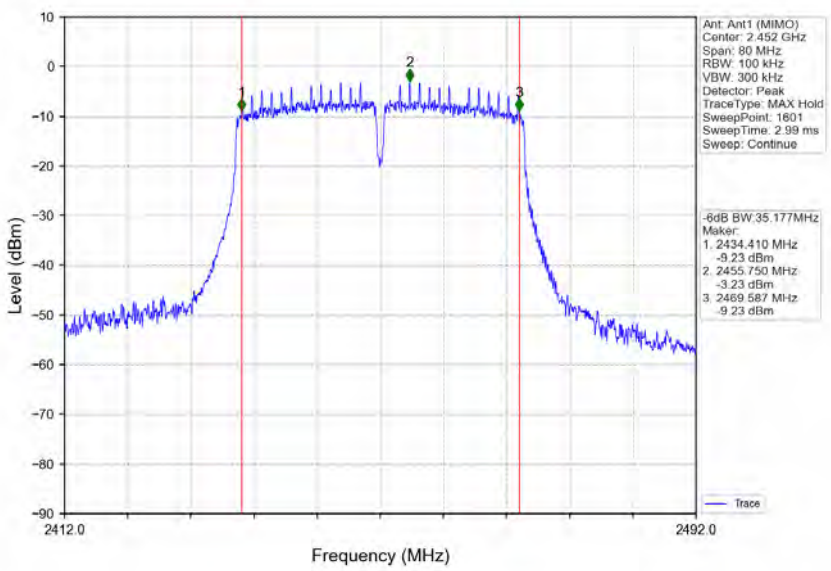
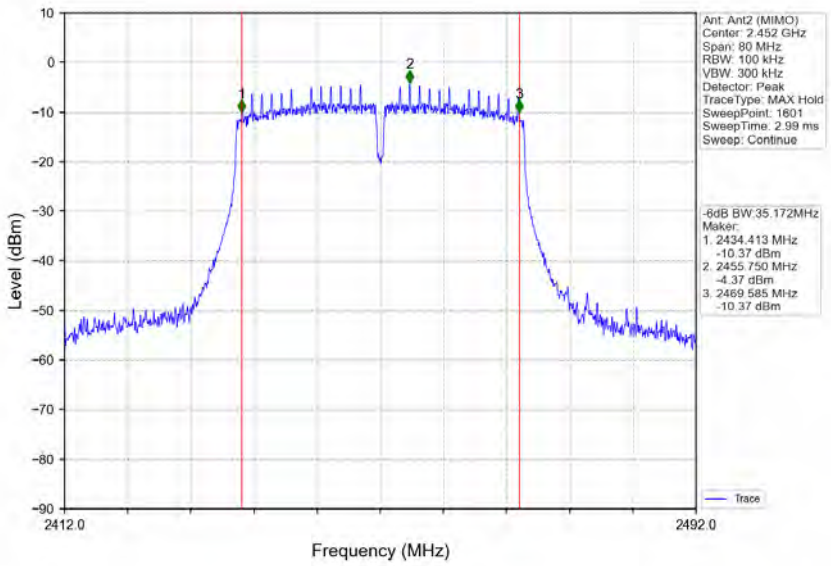
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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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	13.49	13.60	/	<=30	Pass
		2437	12.98	13.04	/	<=30	Pass
		2462	12.76	12.98	/	<=30	Pass
802.11g	SISO	2412	11.38	9.62	/	<=30	Pass
		2437	11.73	10.03	/	<=30	Pass
		2462	11.57	9.90	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.88	10.03	14.06	<=30	Pass
		2437	11.54	10.50	14.06	<=30	Pass
		2462	10.46	9.24	12.90	<=30	Pass
802.11n (HT40)	MIMO	2422	11.77	9.84	13.92	<=30	Pass
		2437	11.59	10.42	14.05	<=30	Pass
		2452	10.52	9.27	12.95	<=30	Pass
Note1: Antenna Gain: Ant1: 3.82dBi; Ant2: -5.95dBi; Note2: Directional Gain: 3.25dBi							

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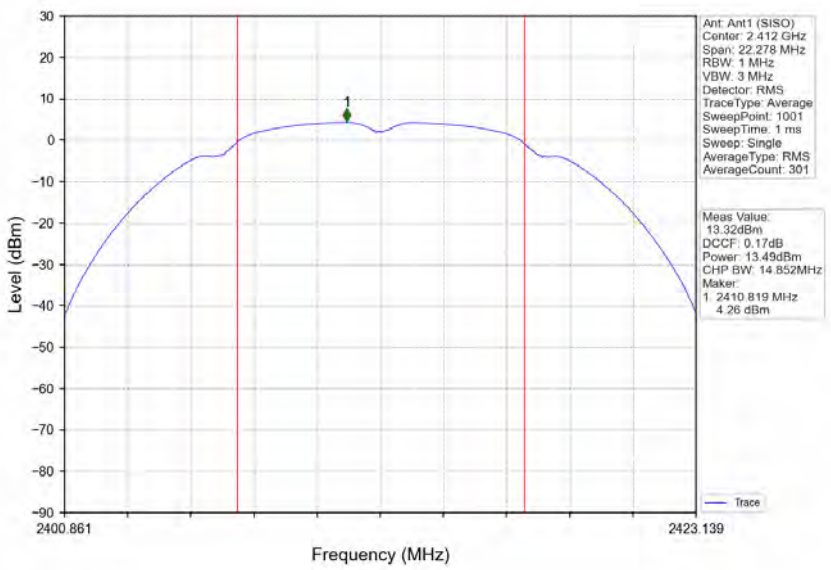
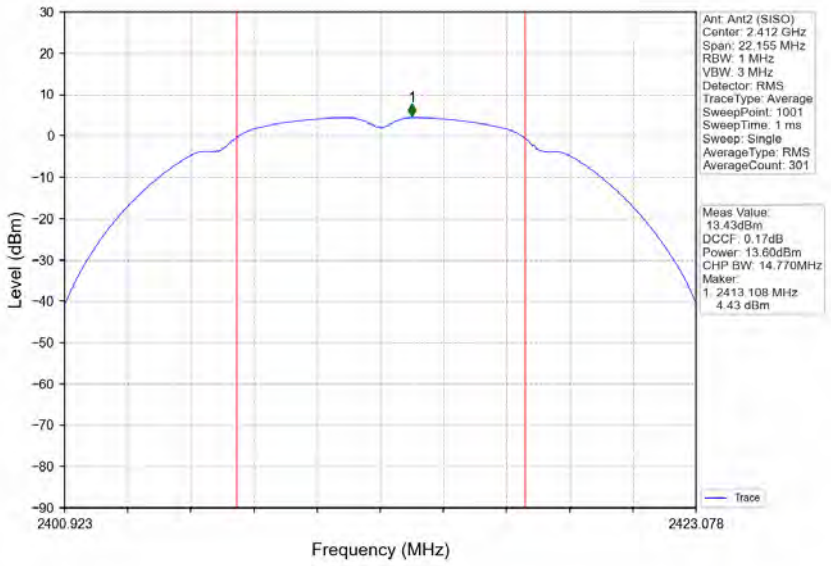
3.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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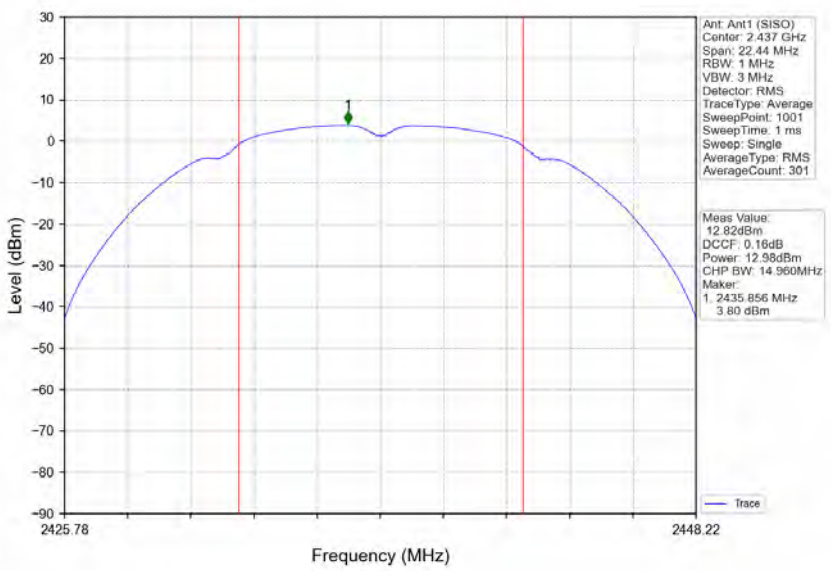
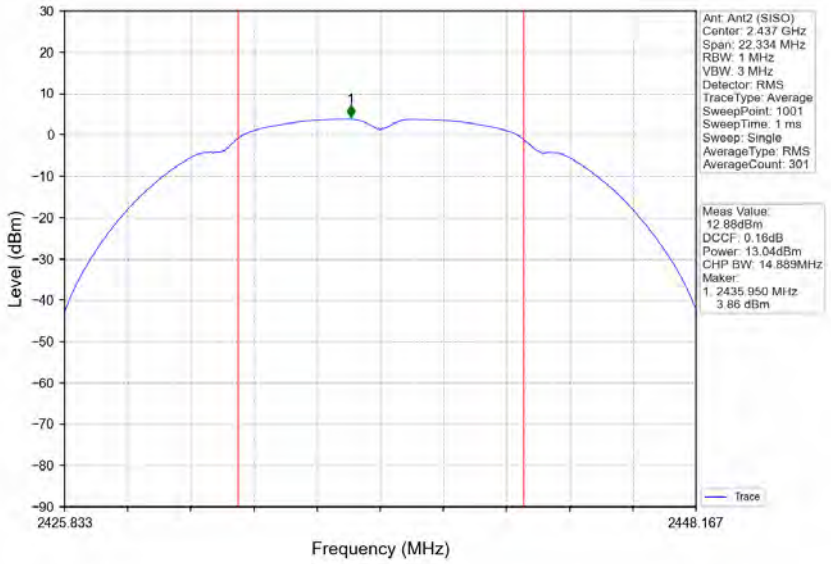
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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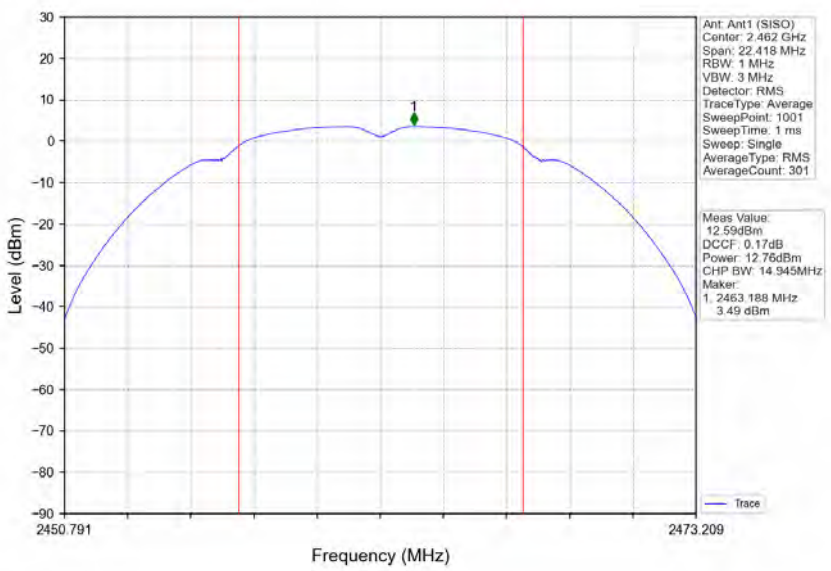
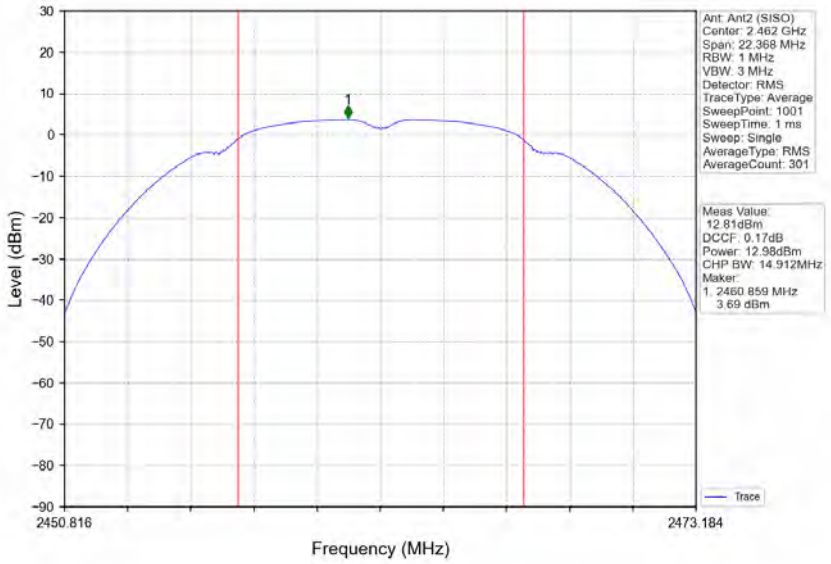
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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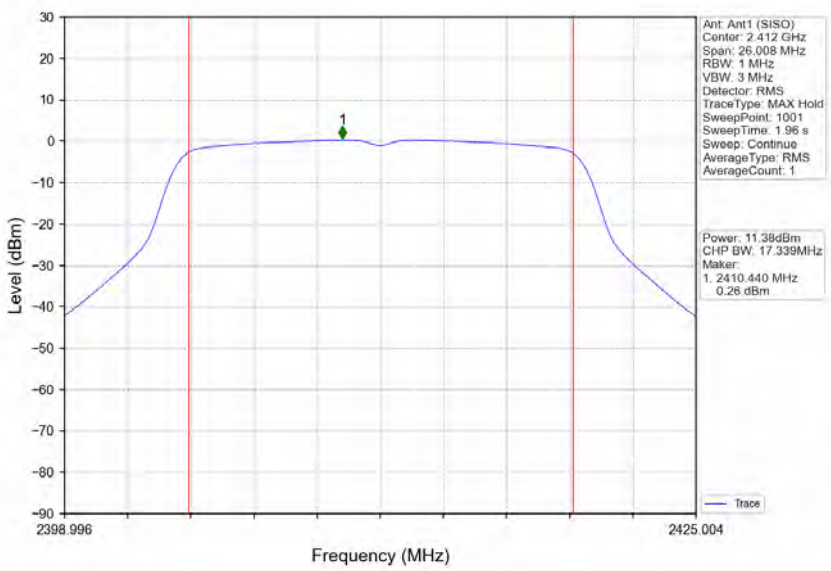
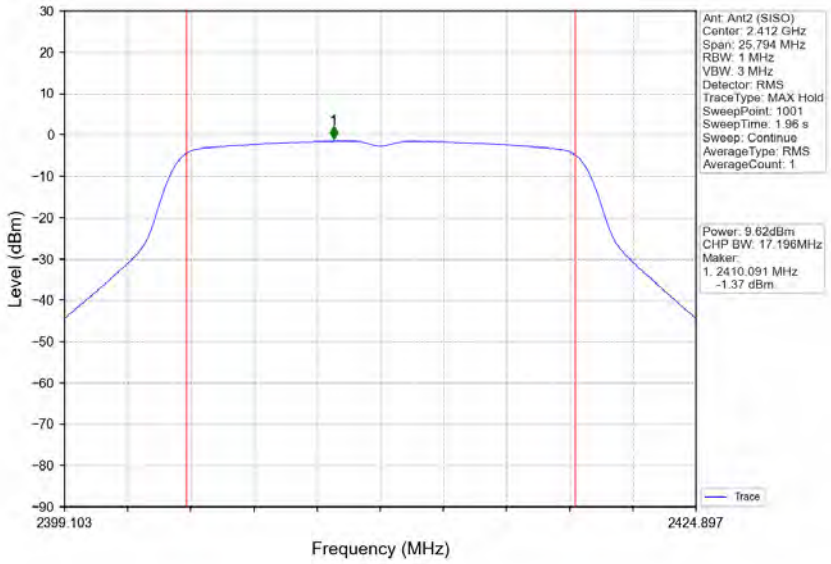
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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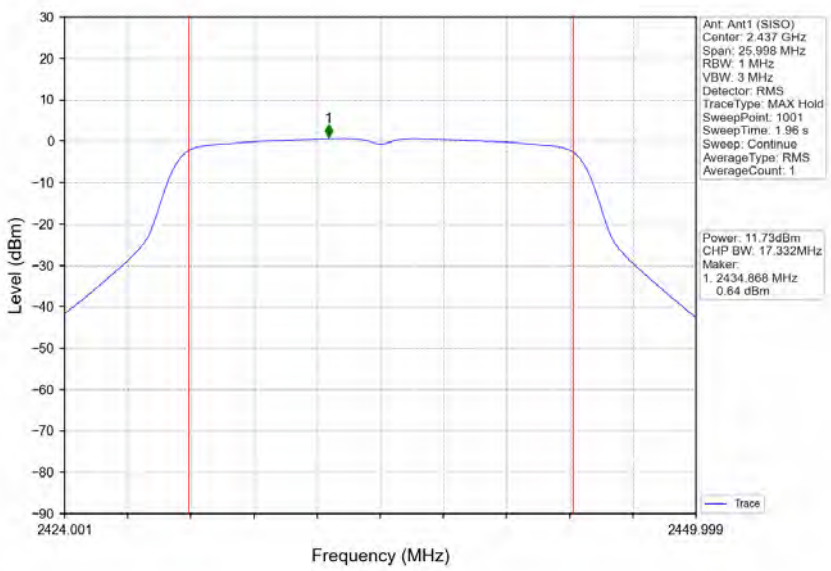
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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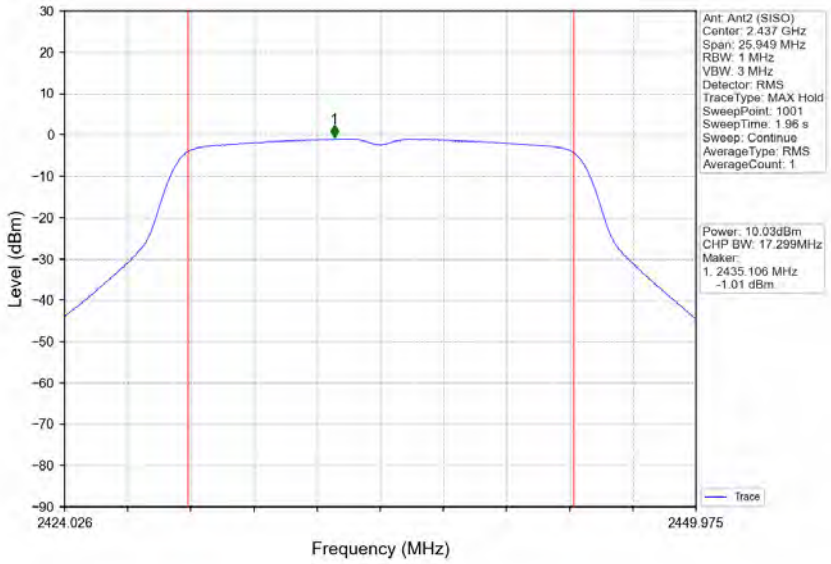

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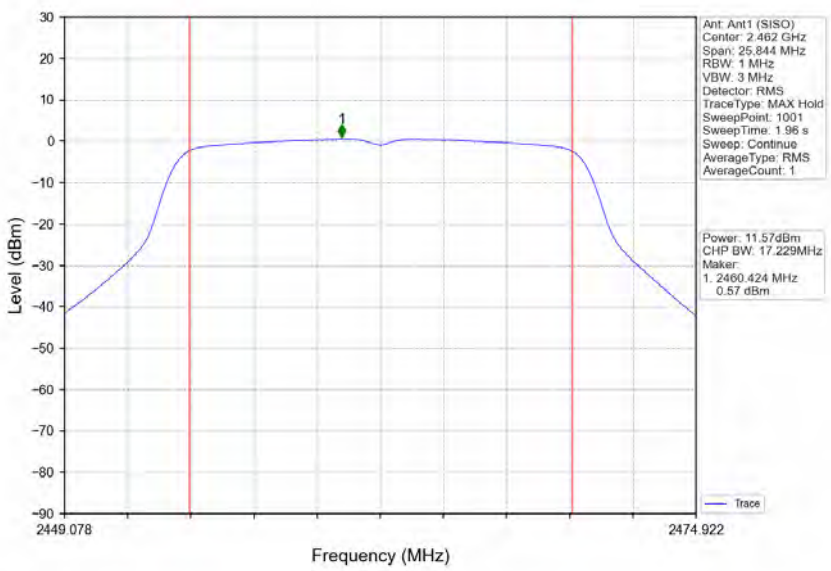
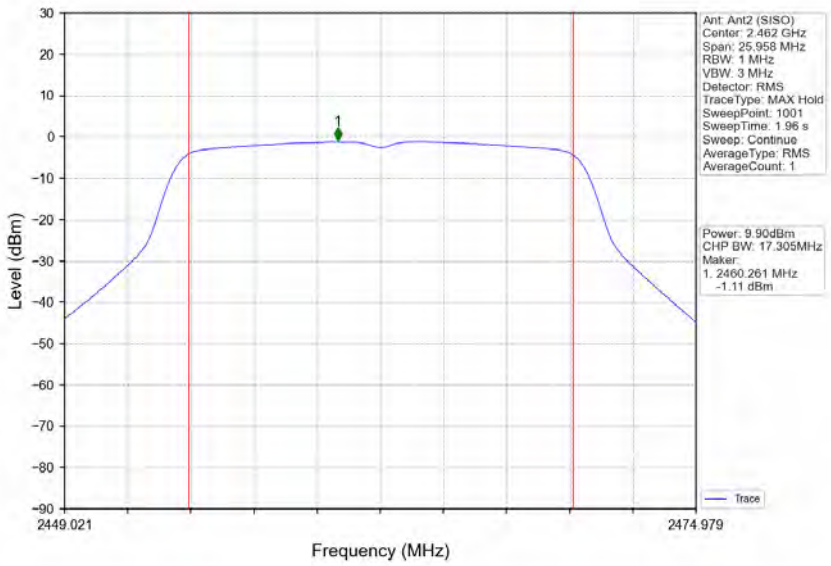
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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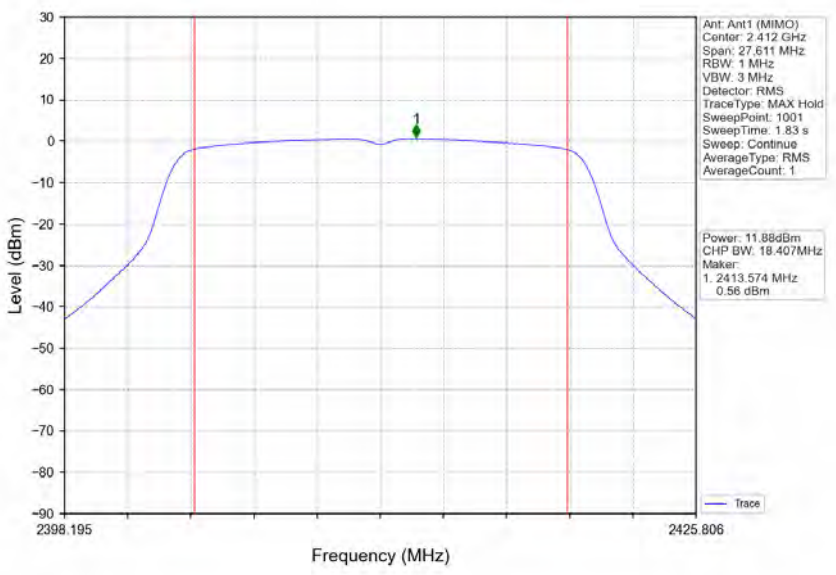
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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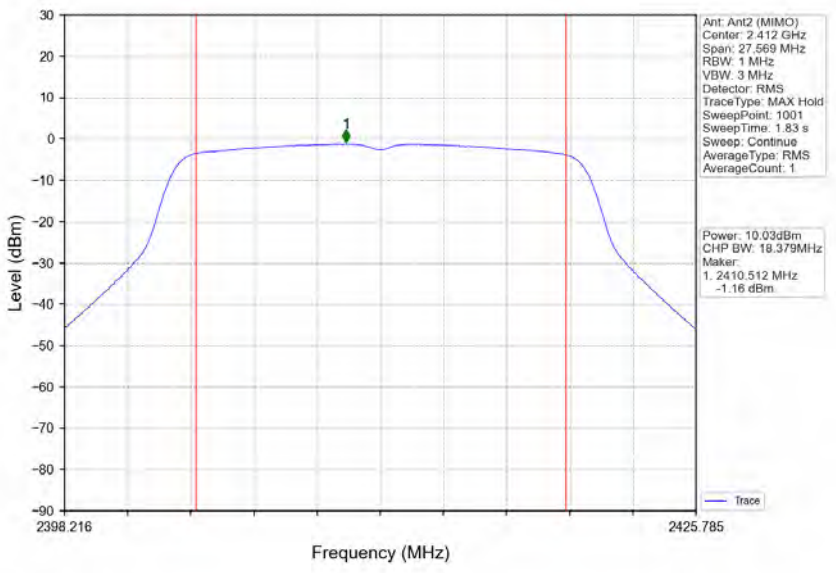

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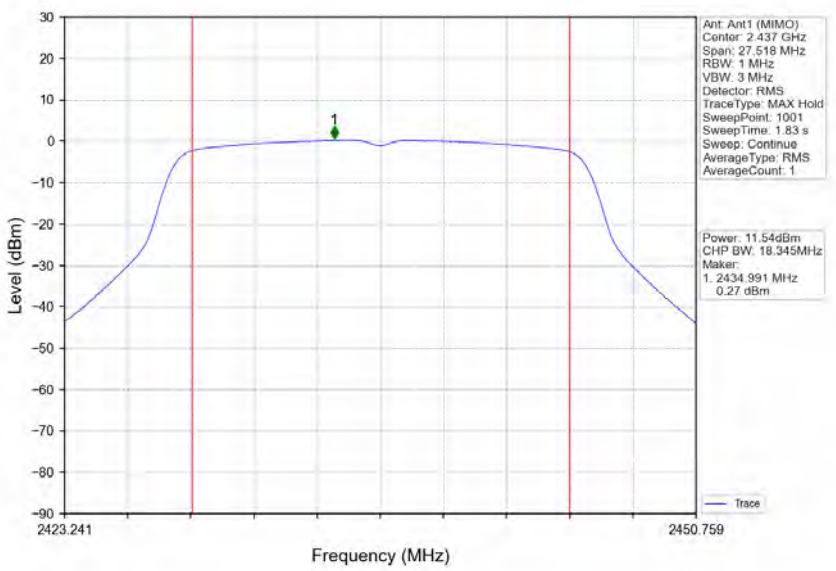
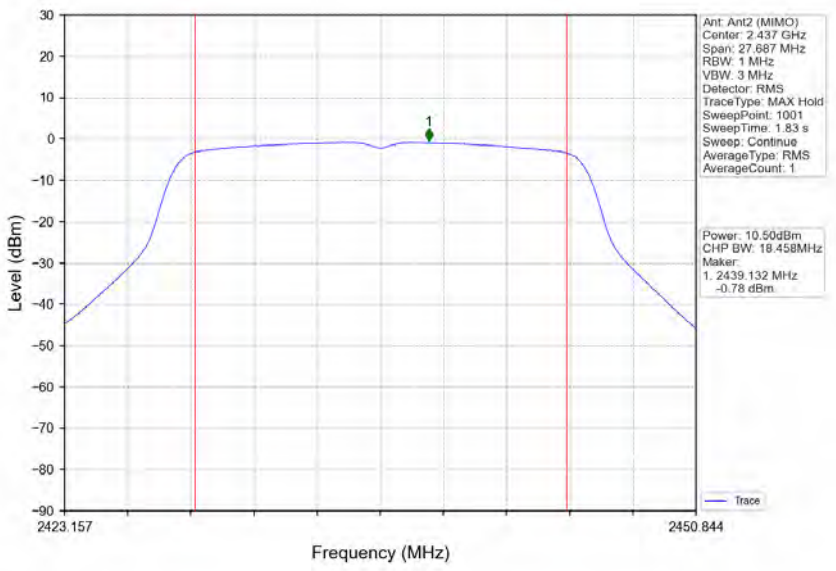


802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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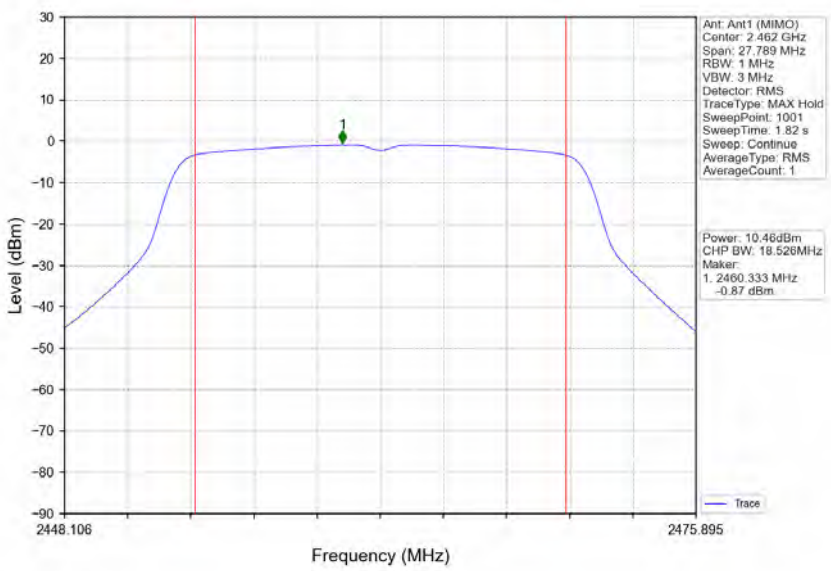
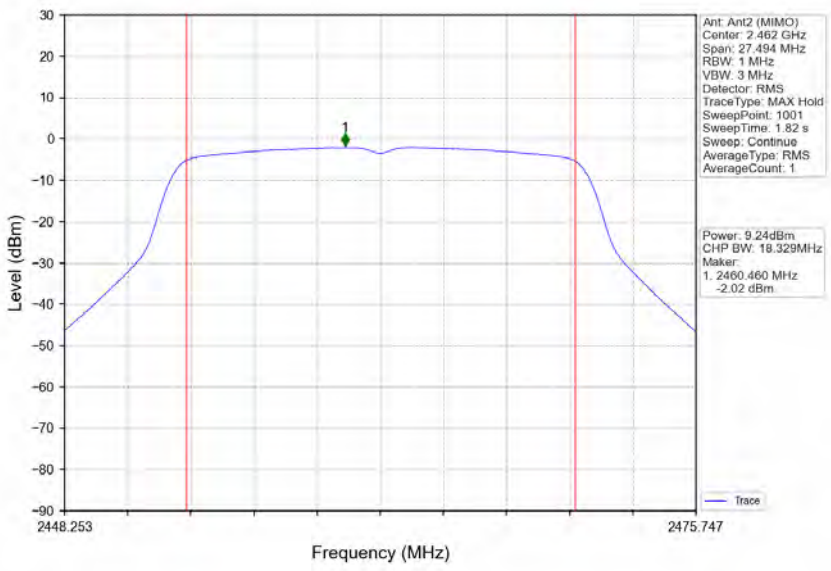
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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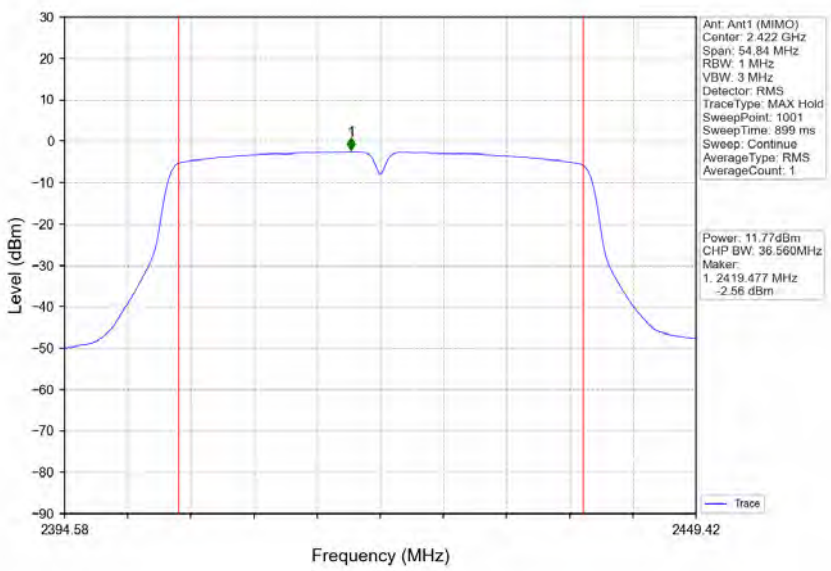
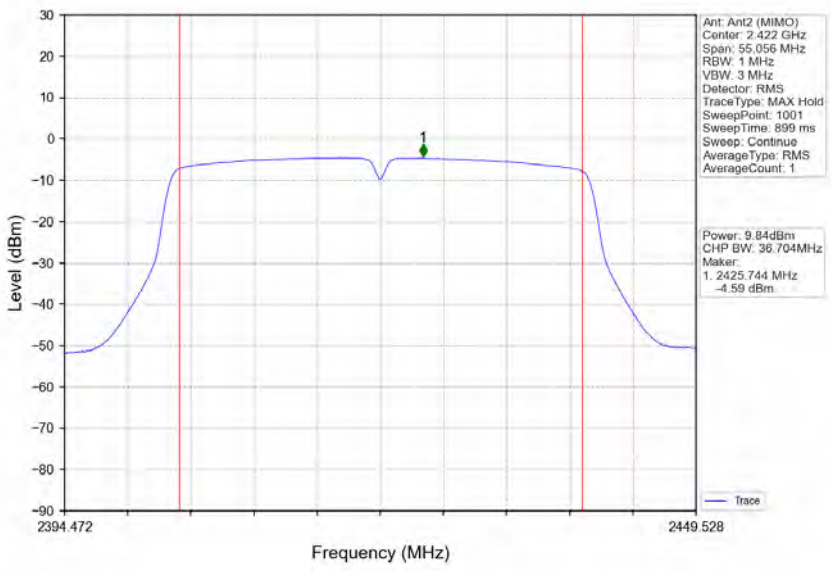
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



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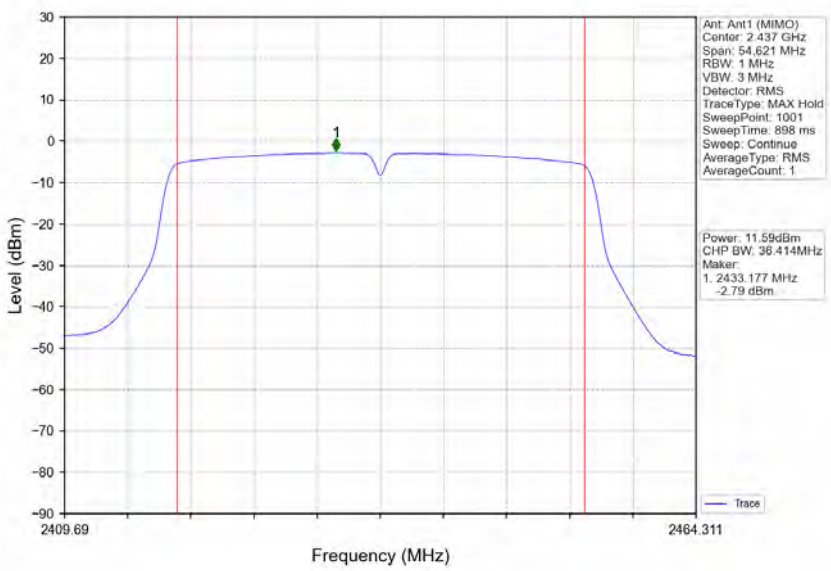
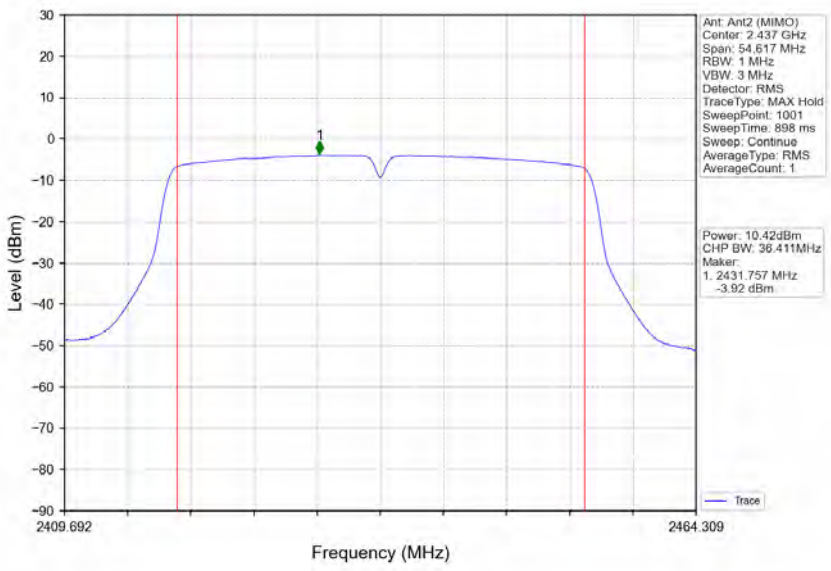
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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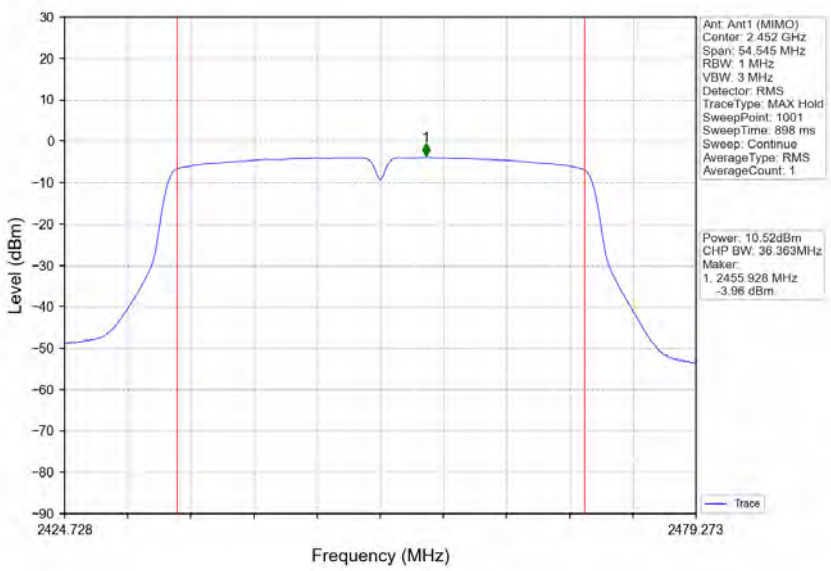
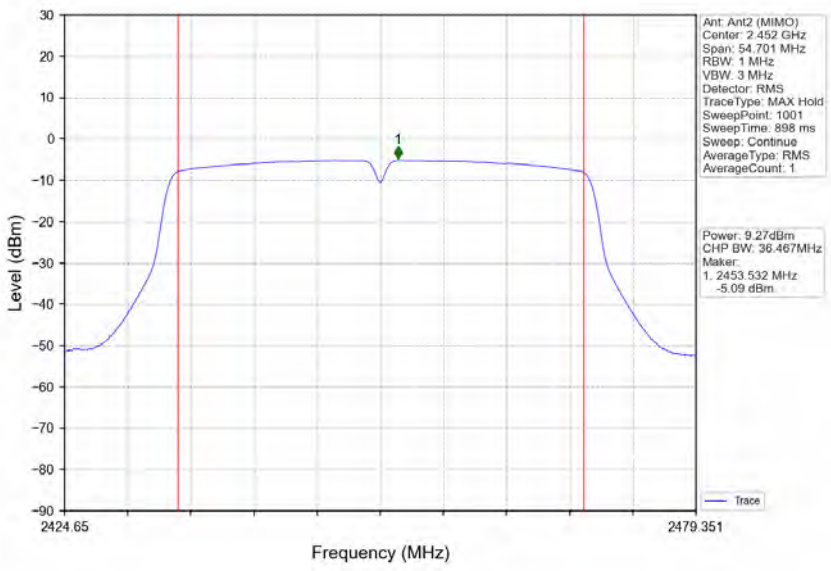
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-10.47	-11.01	/	<=8	Pass
		2437	-11.32	-10.62	/	<=8	Pass
		2462	-11.50	-9.28	/	<=8	Pass
802.11g	SISO	2412	-13.63	-14.62	/	<=8	Pass
		2437	-14.17	-15.43	/	<=8	Pass
		2462	-14.02	-15.58	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.20	-15.53	-12.36	<=8	Pass
		2437	-14.02	-15.77	-12.57	<=8	Pass
		2462	-15.23	-15.68	-13.48	<=8	Pass
802.11n (HT40)	MIMO	2422	-17.13	-19.57	-15.92	<=8	Pass
		2437	-16.41	-18.59	-15.40	<=8	Pass
		2452	-18.11	-19.48	-16.76	<=8	Pass
Note1: Antenna Gain: Ant1: 3.82dBi; Ant2: -5.95dBi; Note2: Directional Gain: 3.25dBi							

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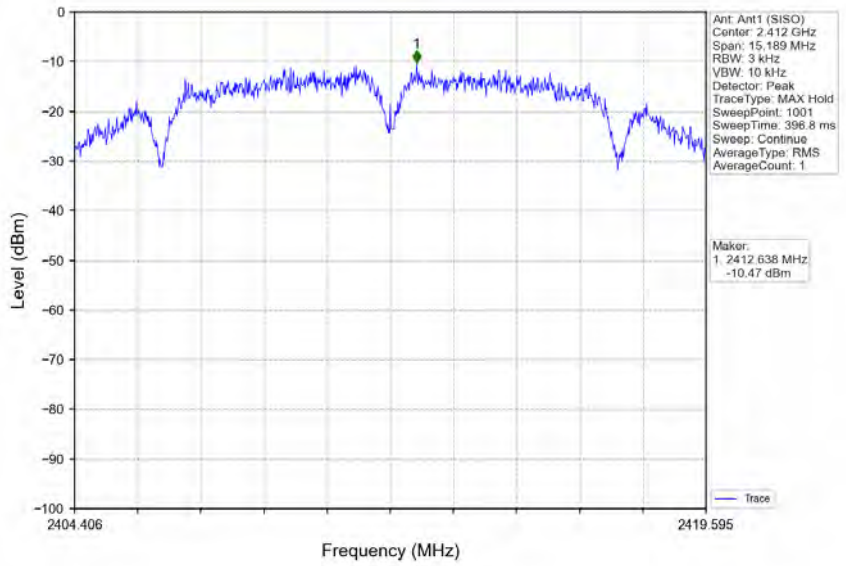
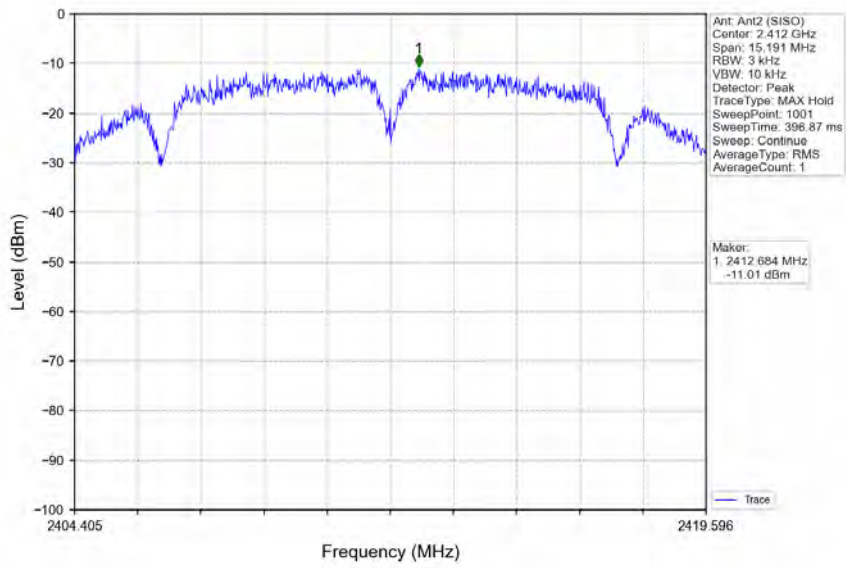
4.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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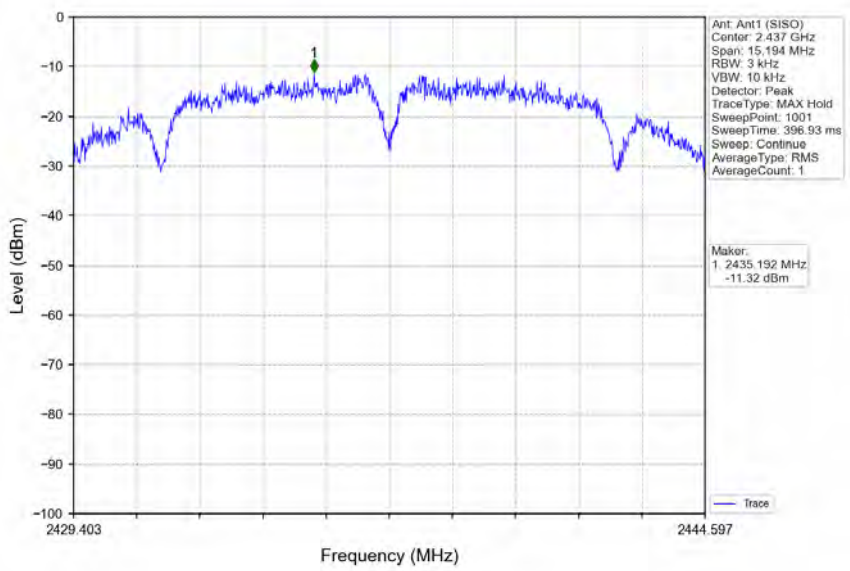
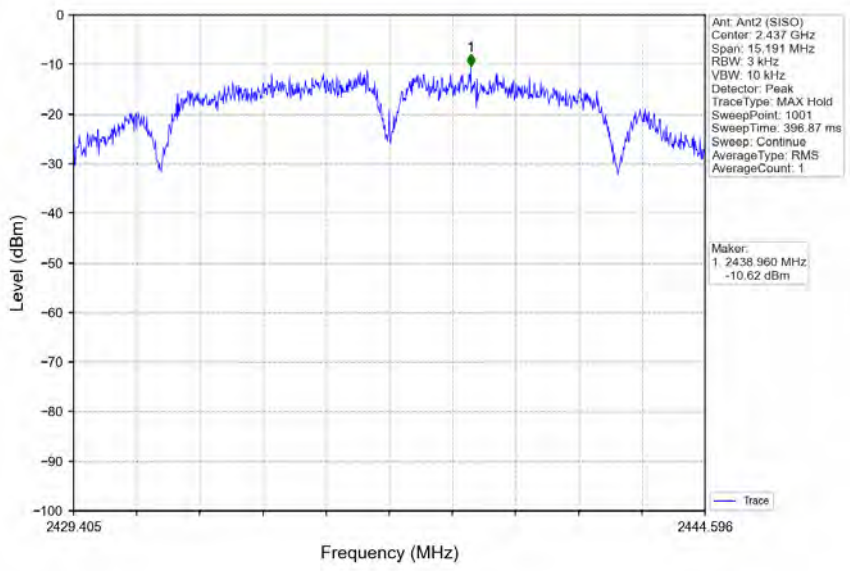
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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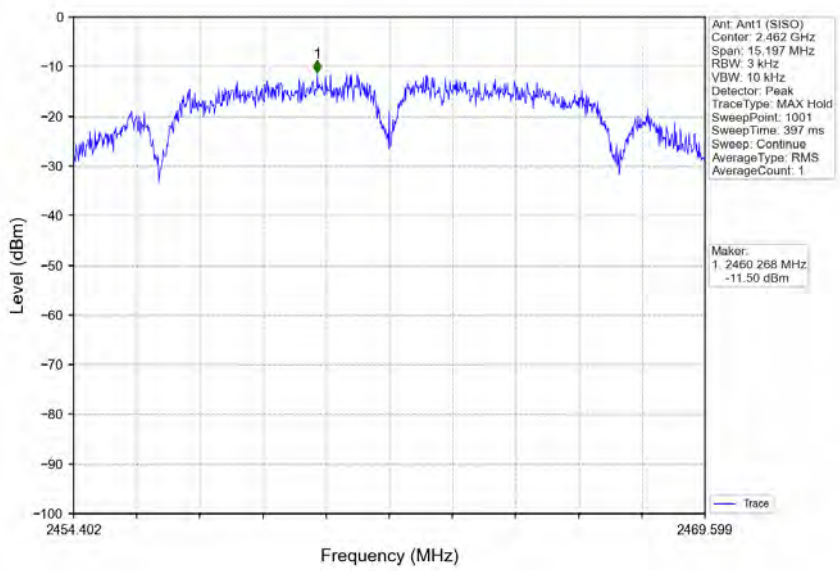
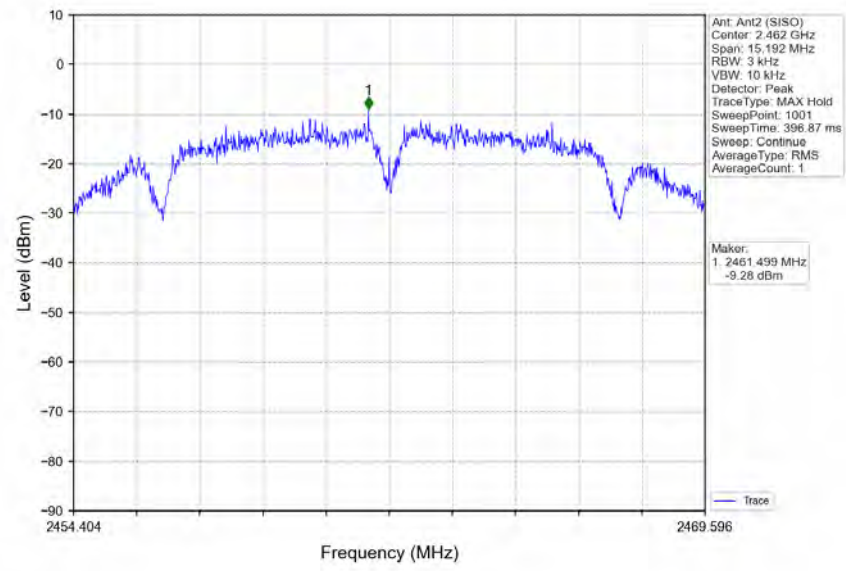
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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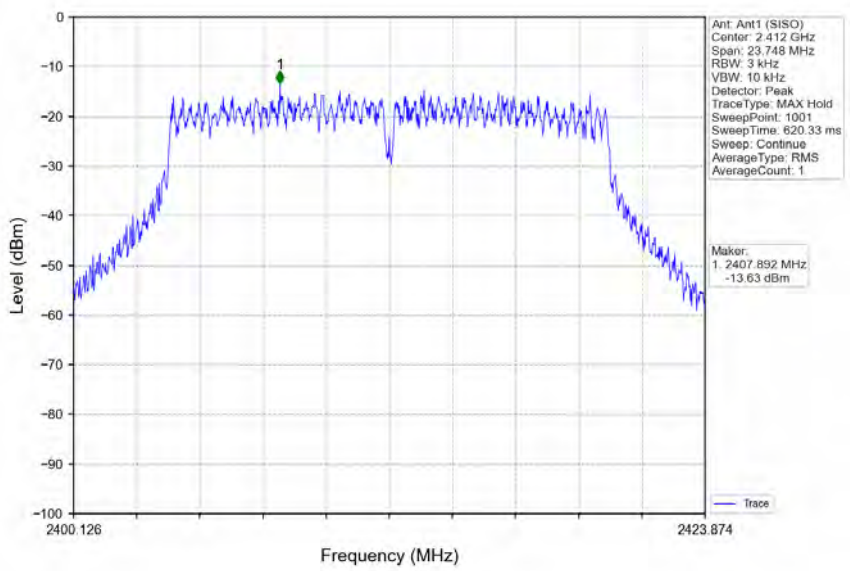
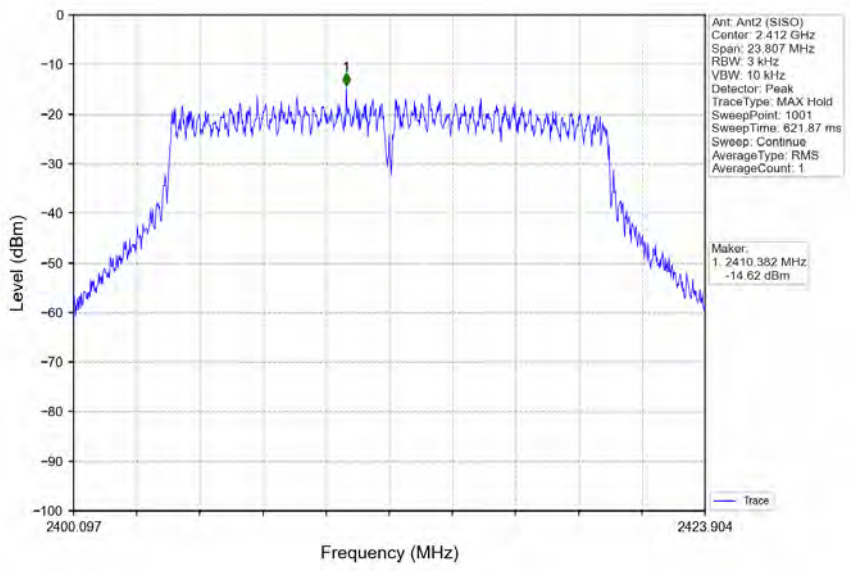
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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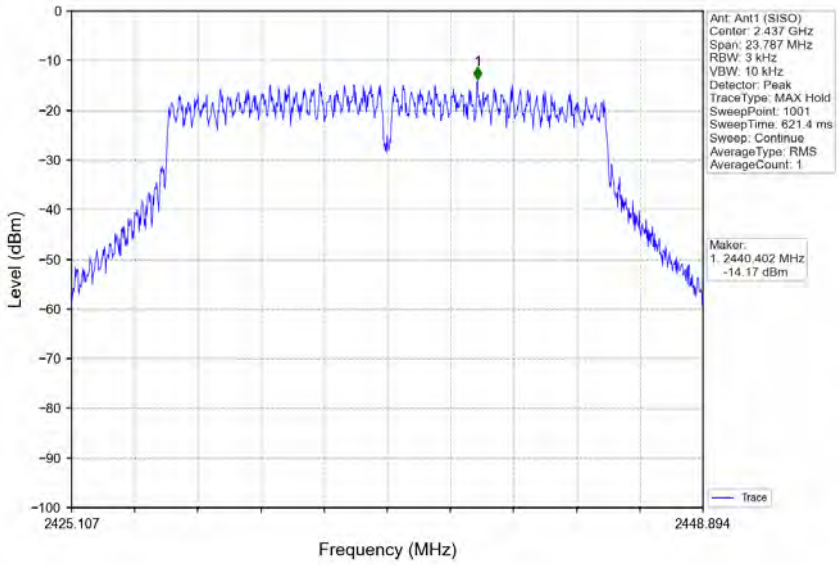
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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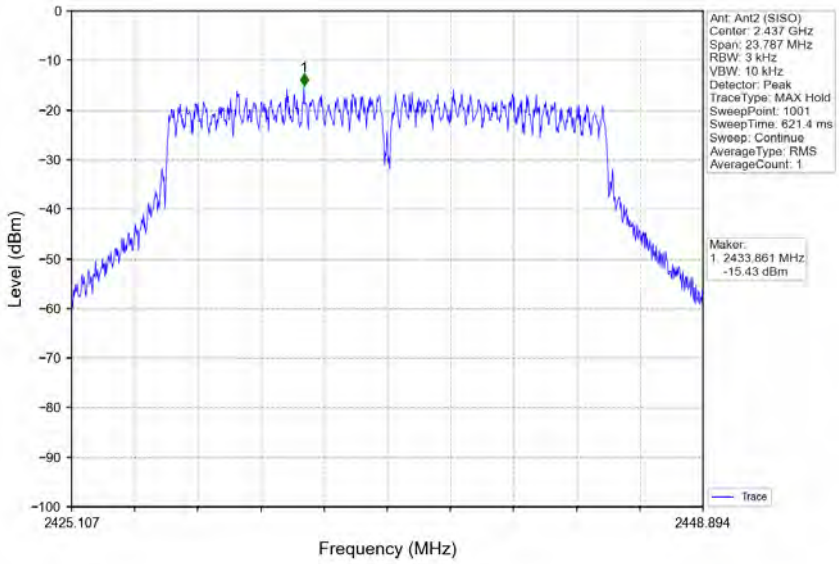

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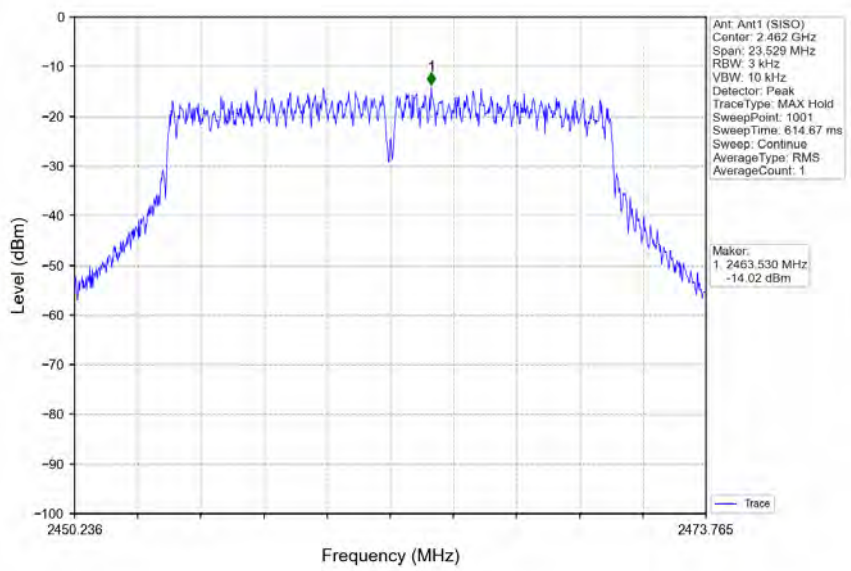
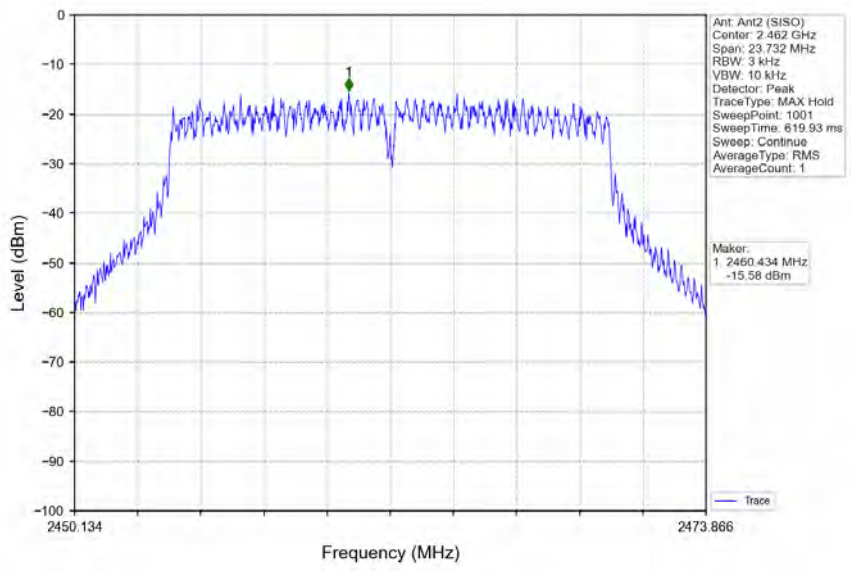
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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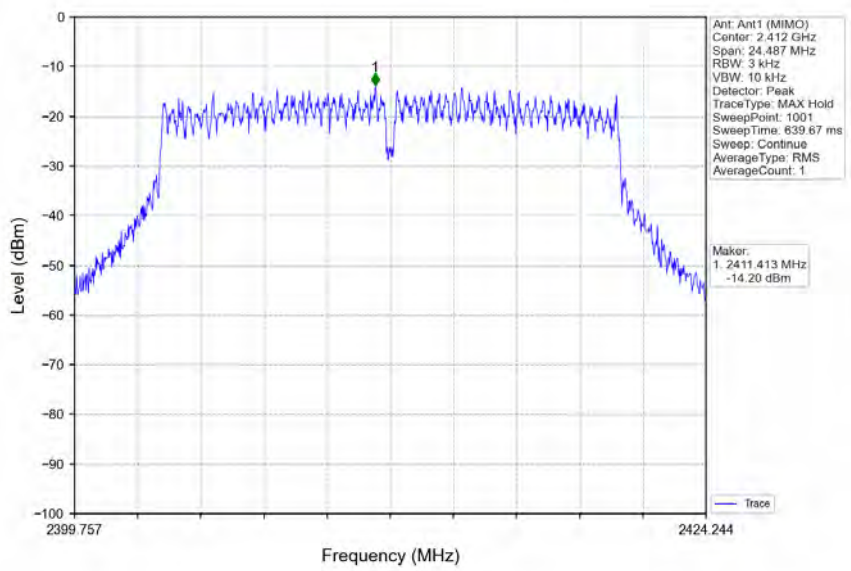
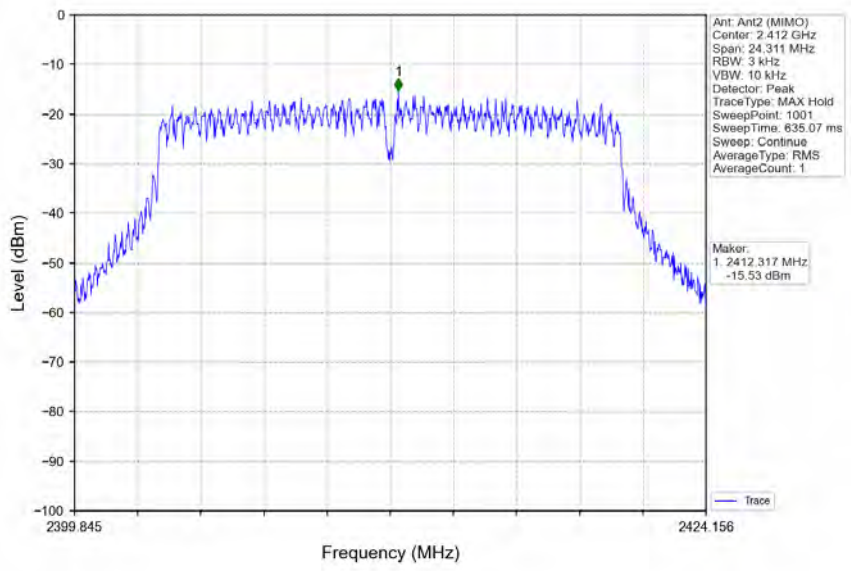
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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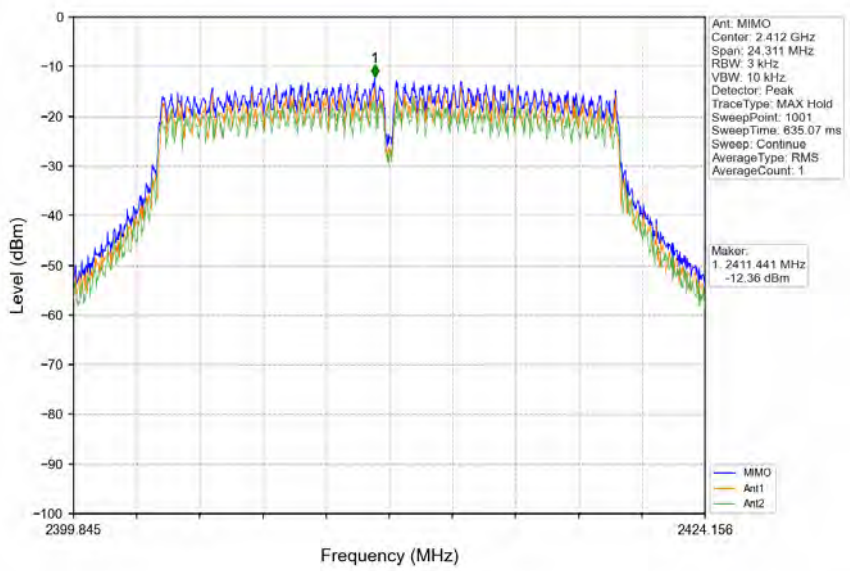
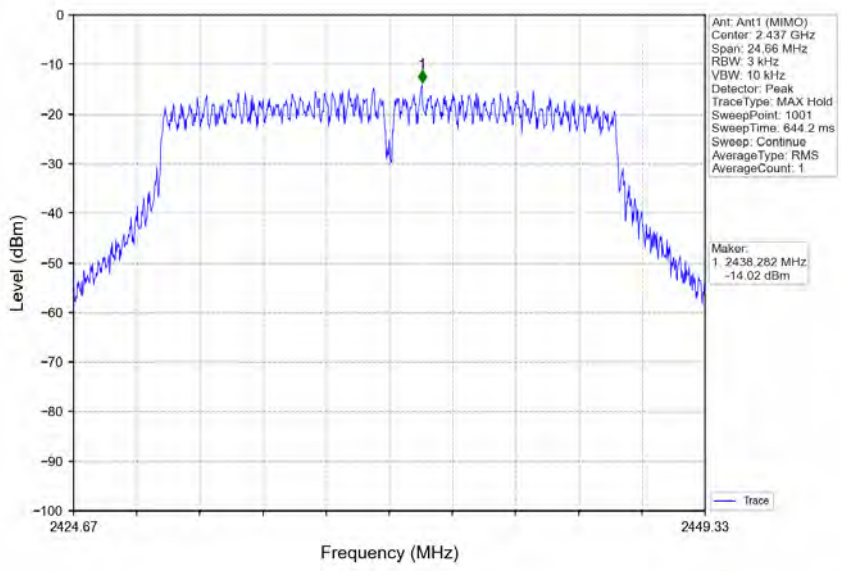
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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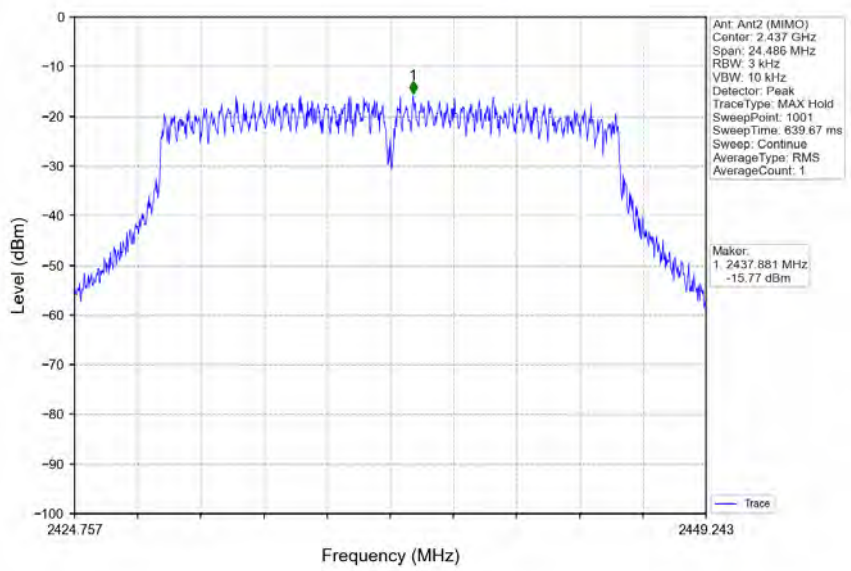
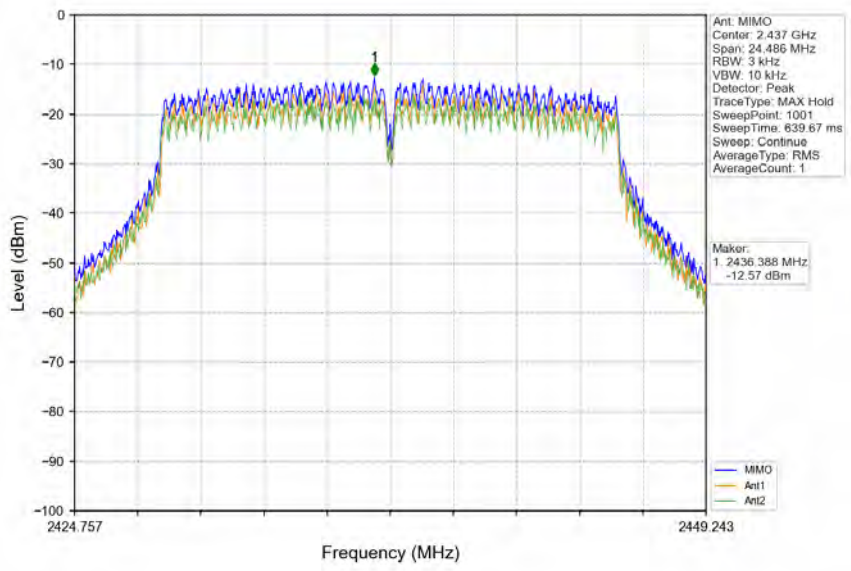
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



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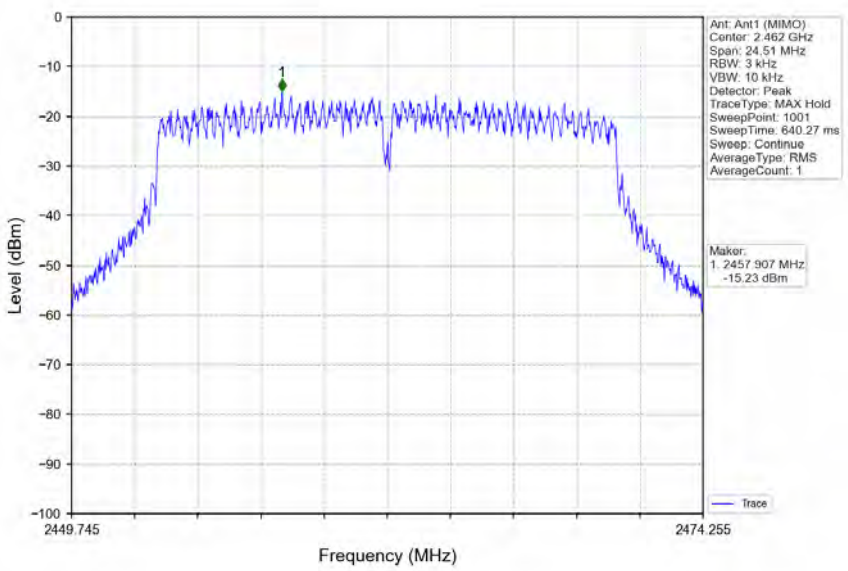
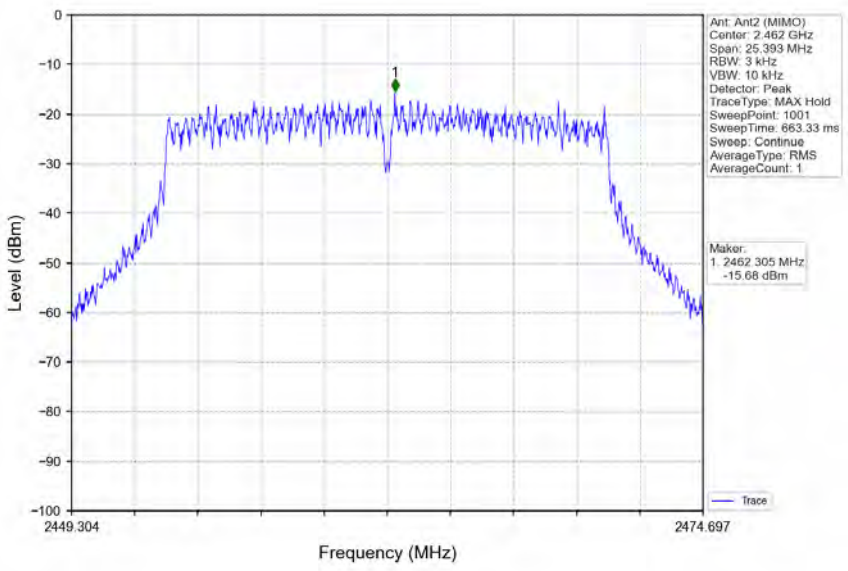
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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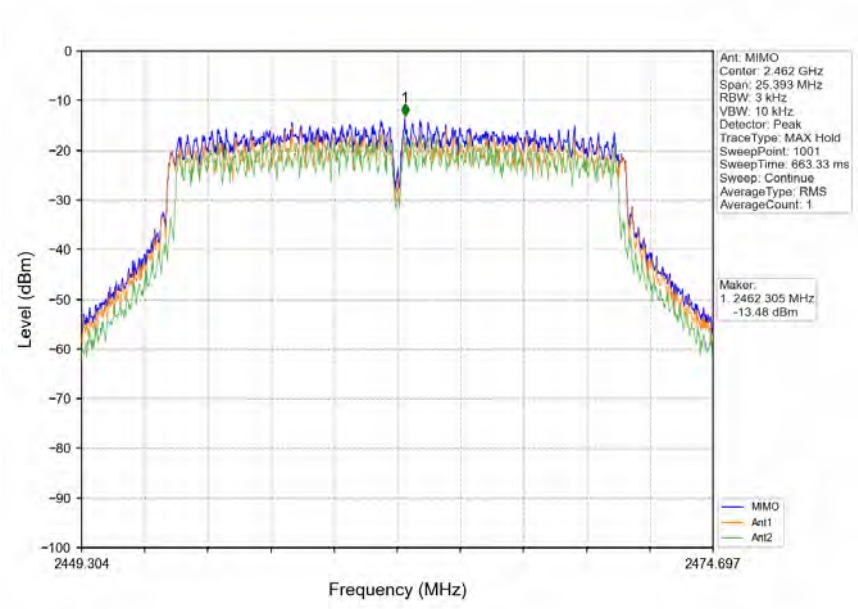
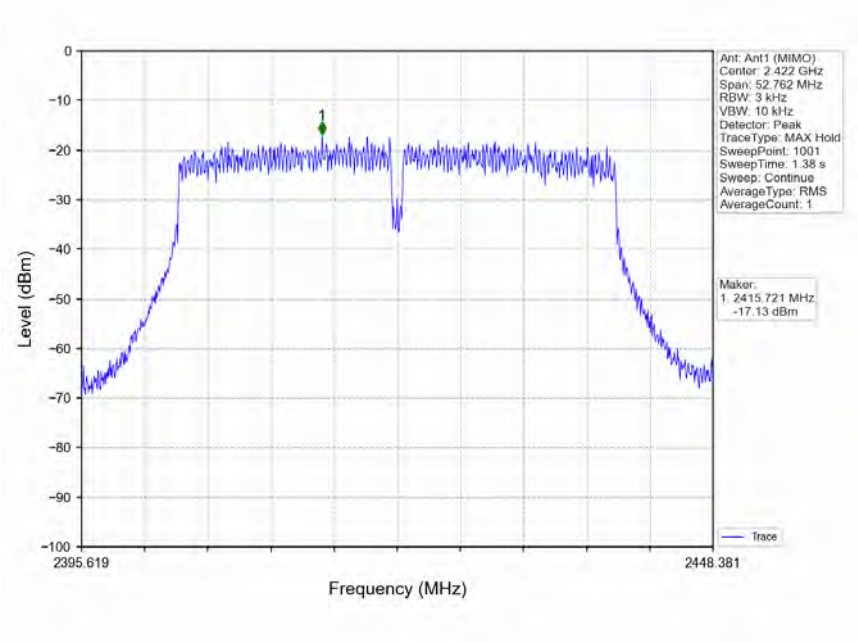
802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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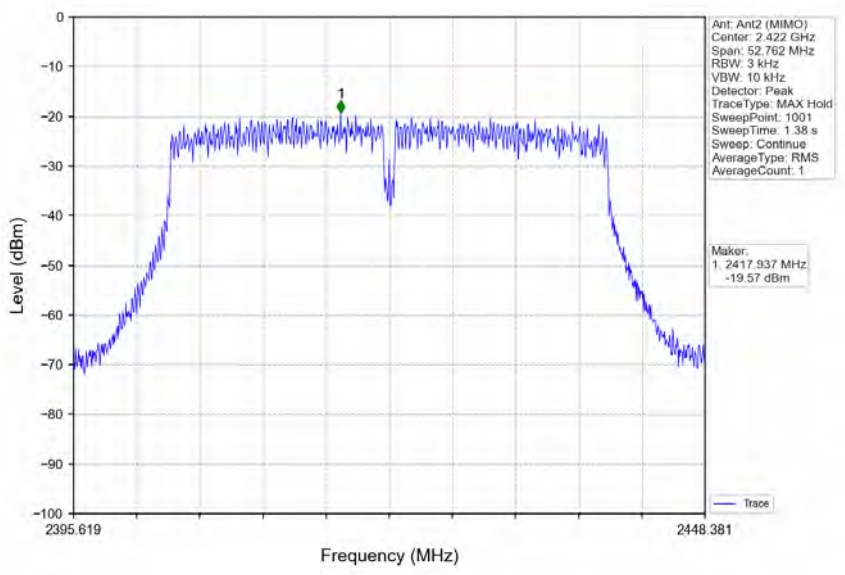
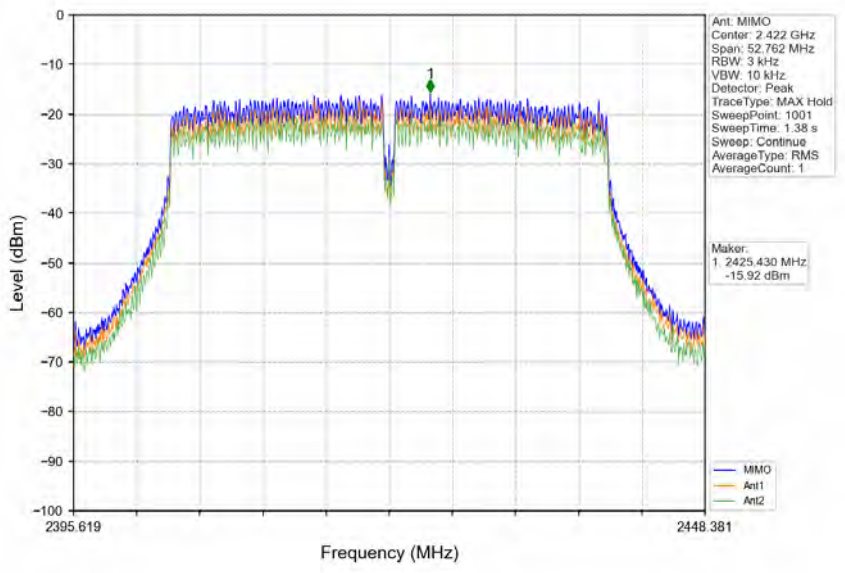
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_MIMO_NTNV



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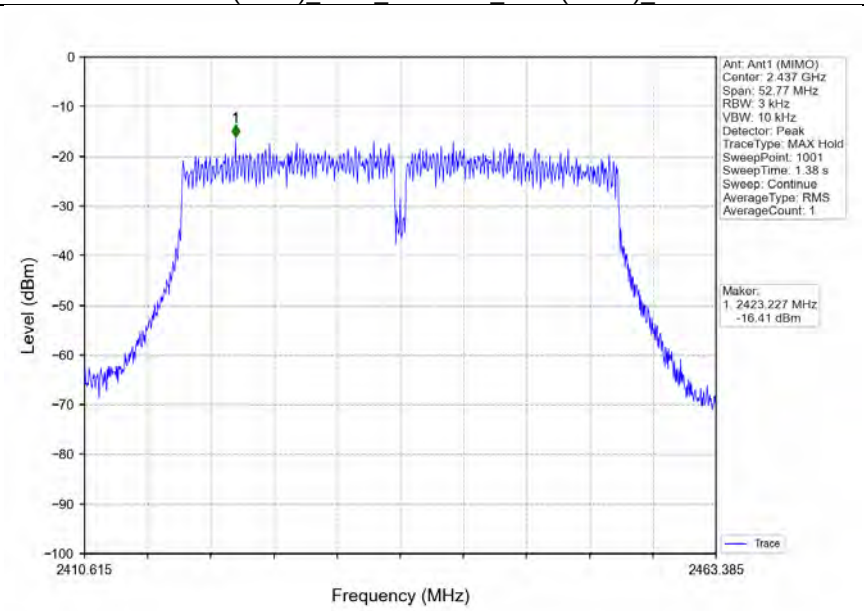
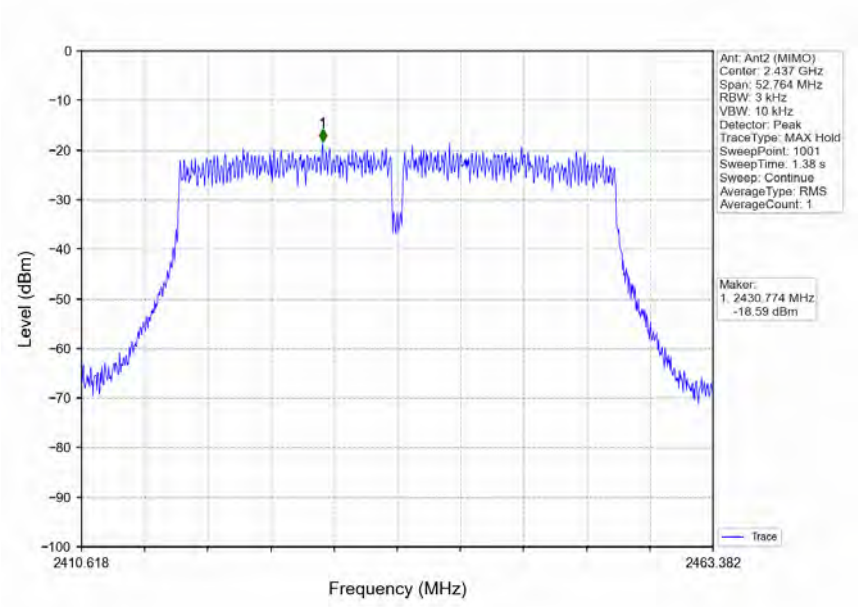
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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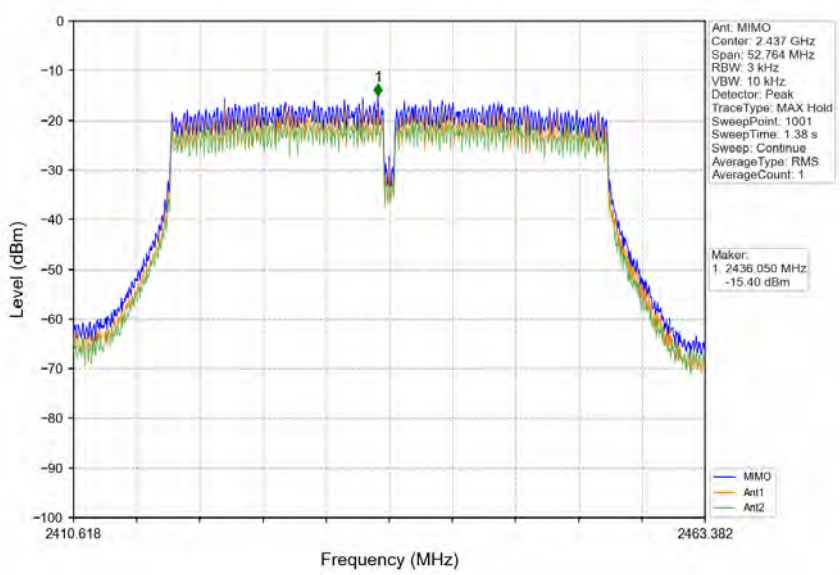
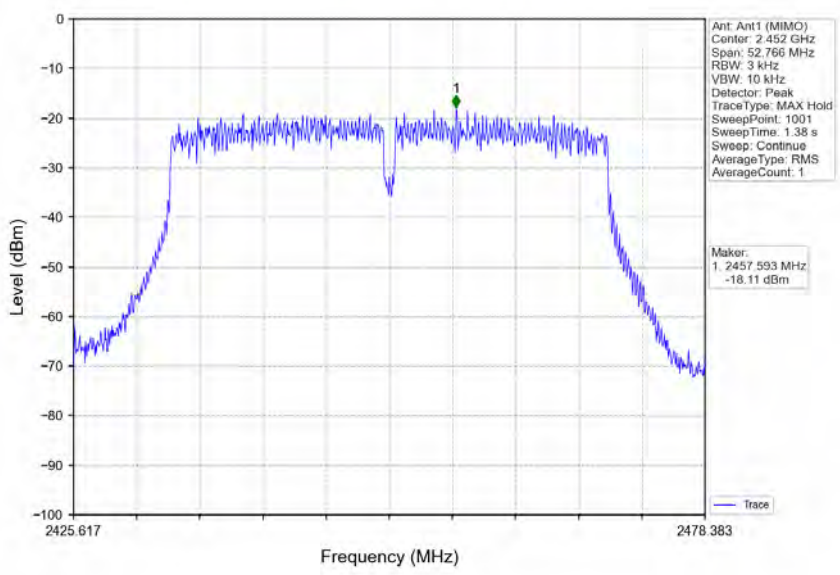
802.11n(HT40)_MCH_2437MHz_MIMO_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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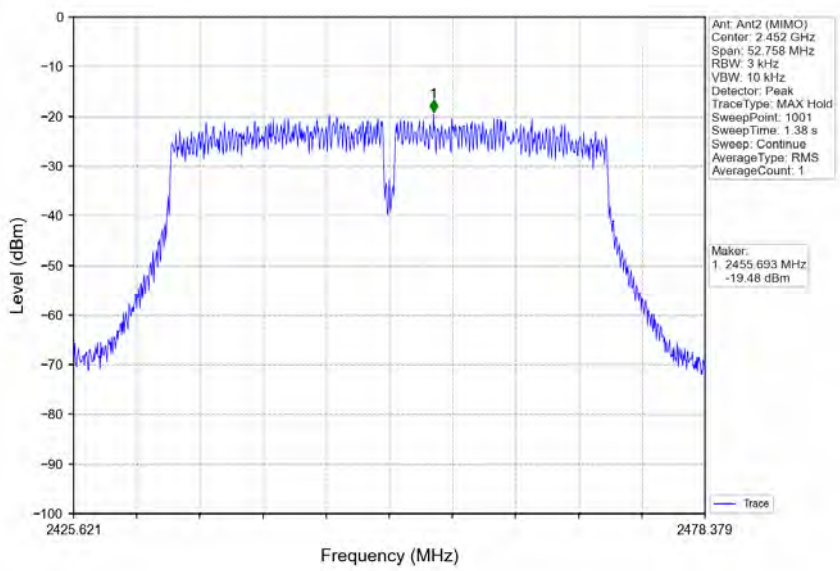
802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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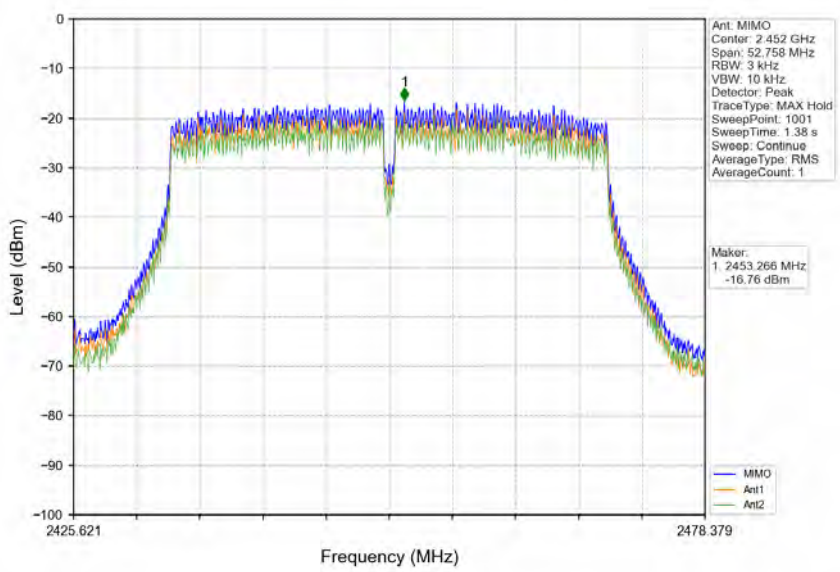

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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	3.74
			2	3.84
		2437	1	3.29
			2	3.62
		2462	1	3.07
			2	3.44
802.11g	SISO	2412	1	0.40
			2	-1.47
		2437	1	0.70
			2	-1.00
		2462	1	0.18
			2	-1.17
802.11n (HT20)	MIMO	2412	1	0.97
			2	-1.04
		2437	1	0.55
			2	-0.42
		2462	1	-0.35
			2	-1.68
802.11n (HT40)	MIMO	2422	1	-1.96
			2	-3.85
		2437	1	-2.19
			2	-3.39
		2452	1	-3.28
			2	-4.43

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

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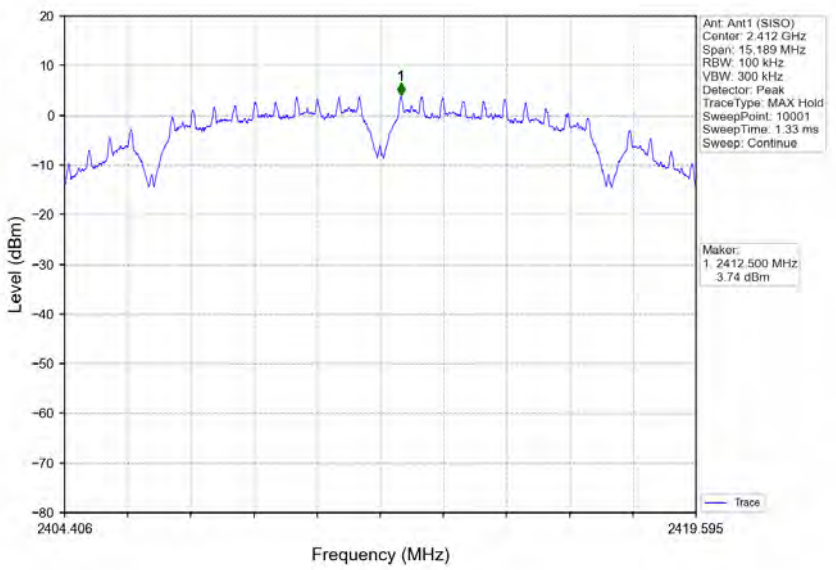
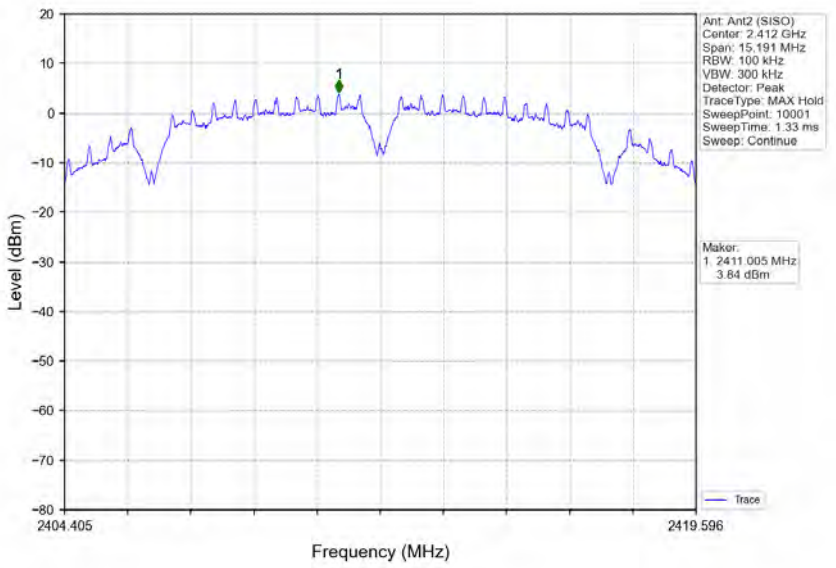
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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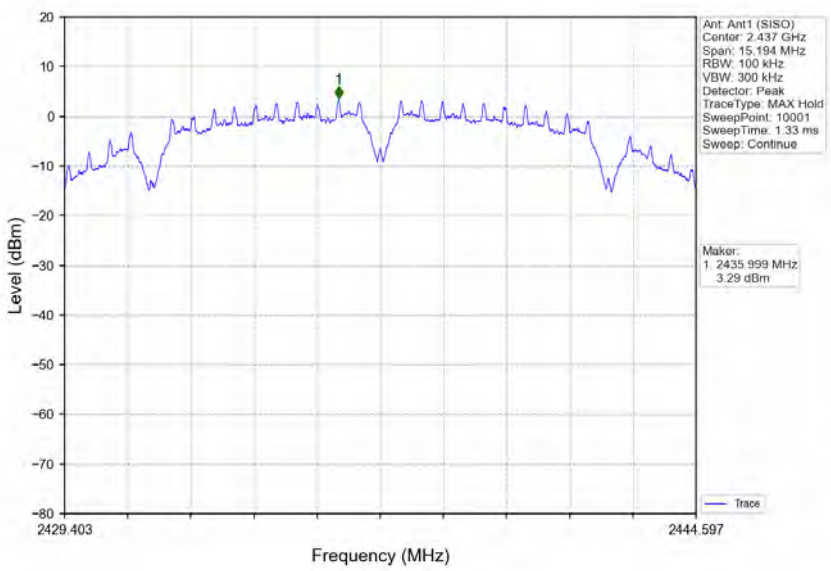
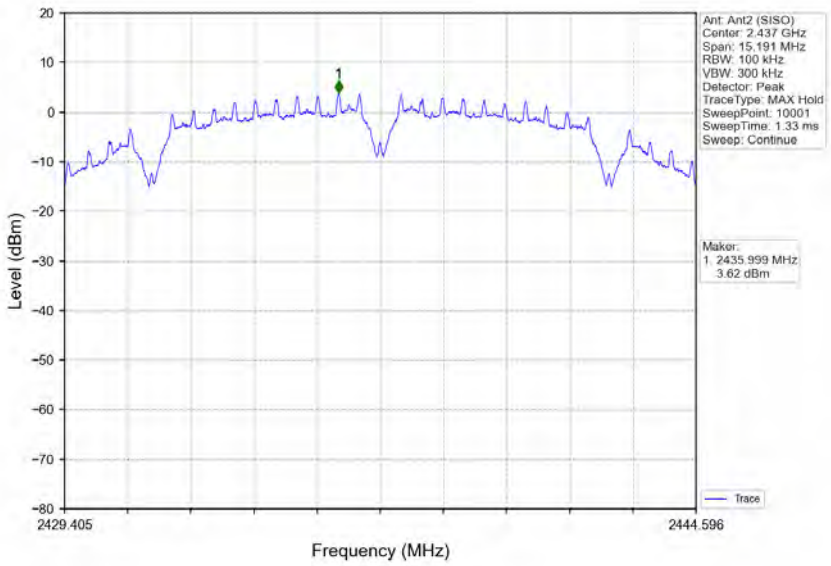
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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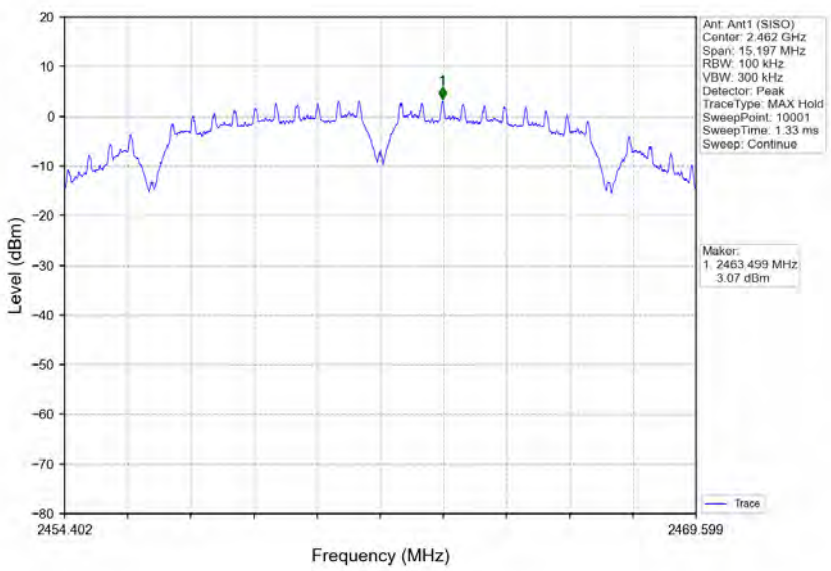
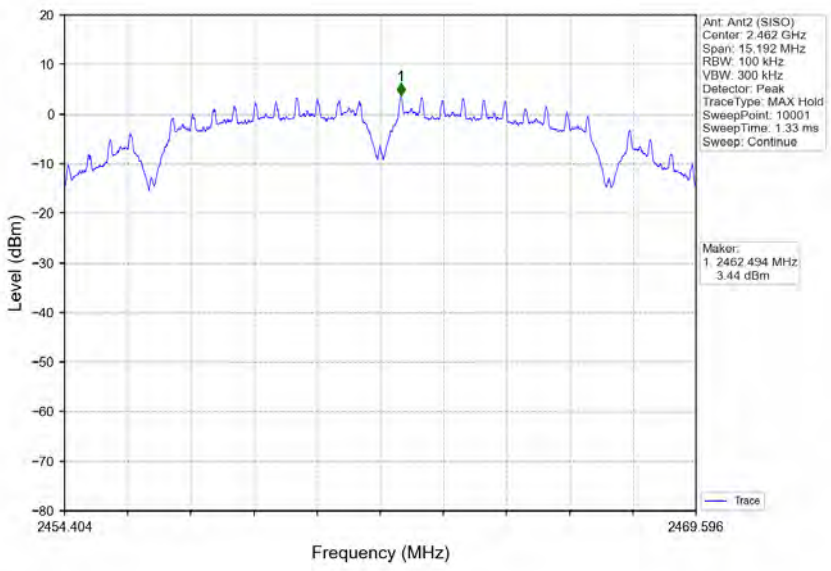
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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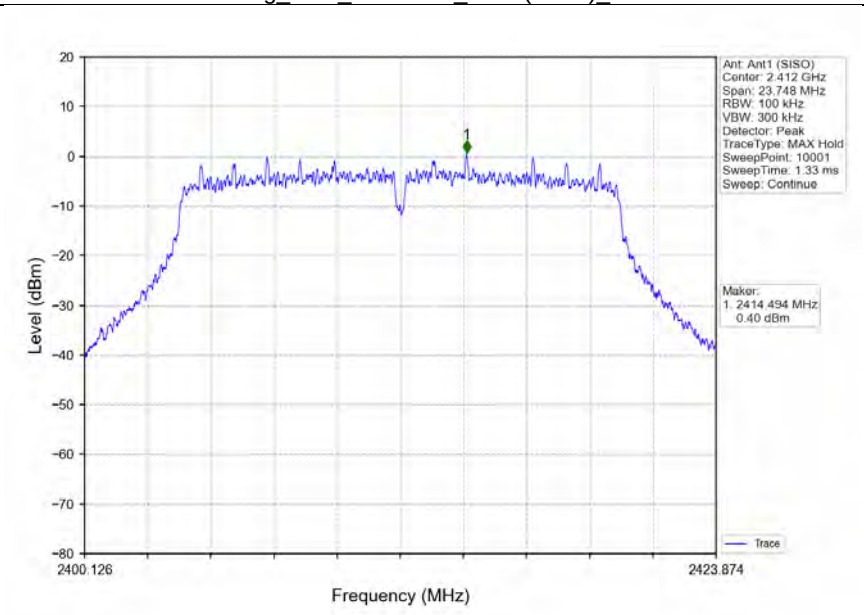
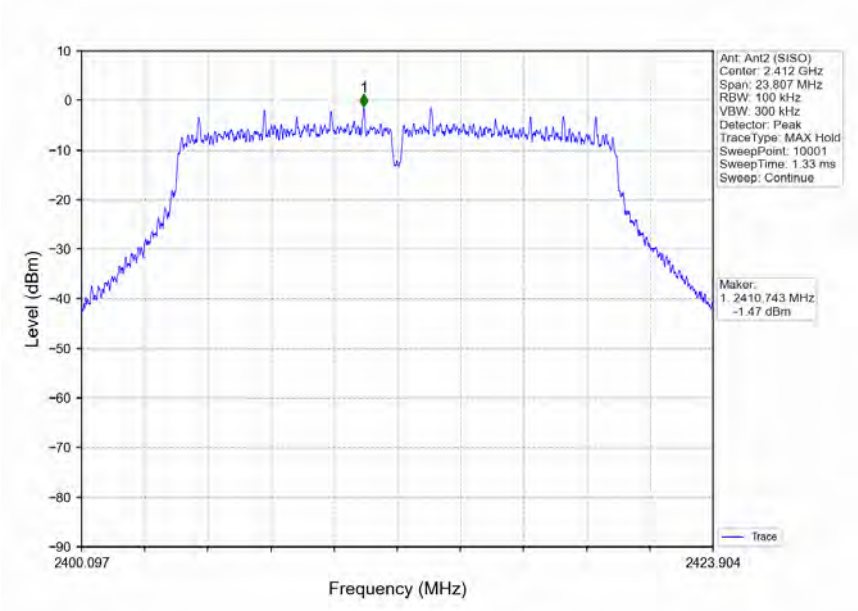
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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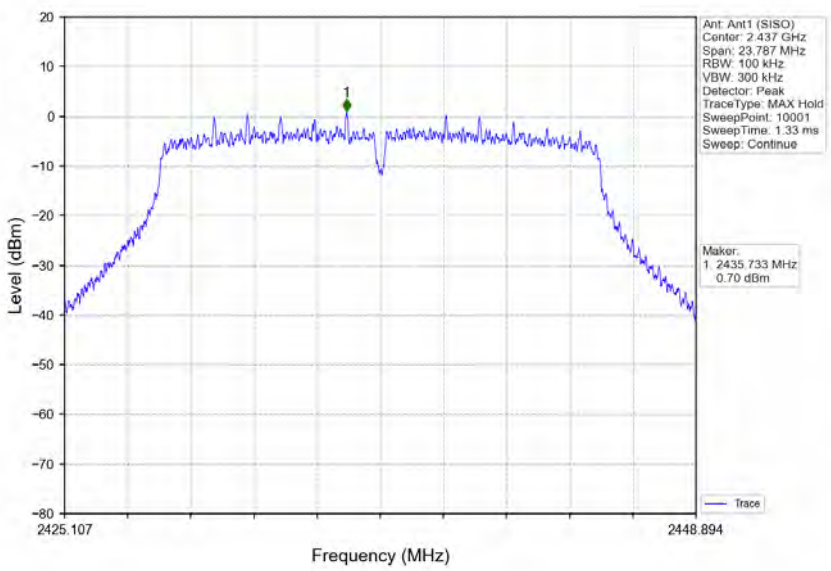
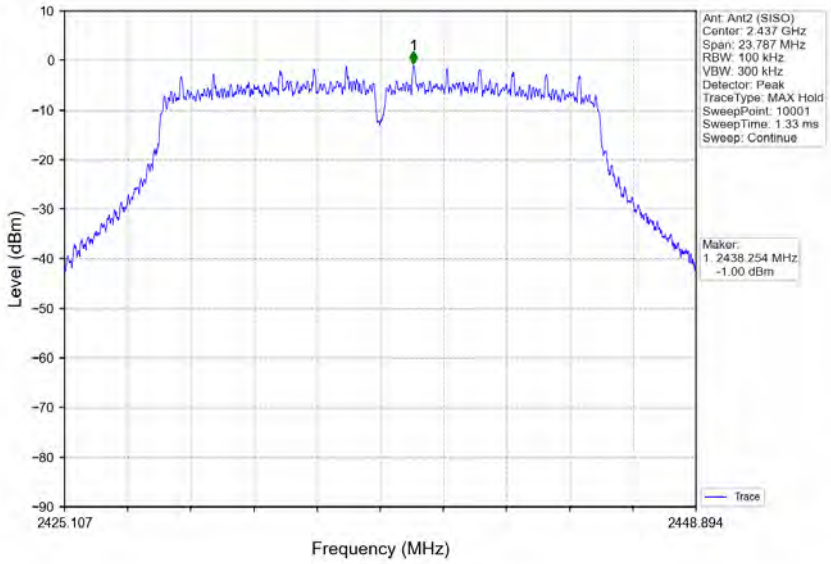
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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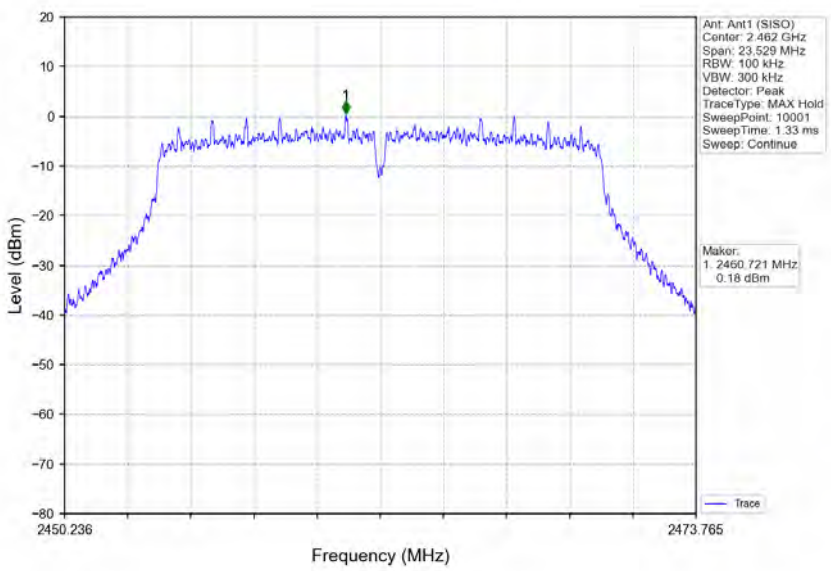
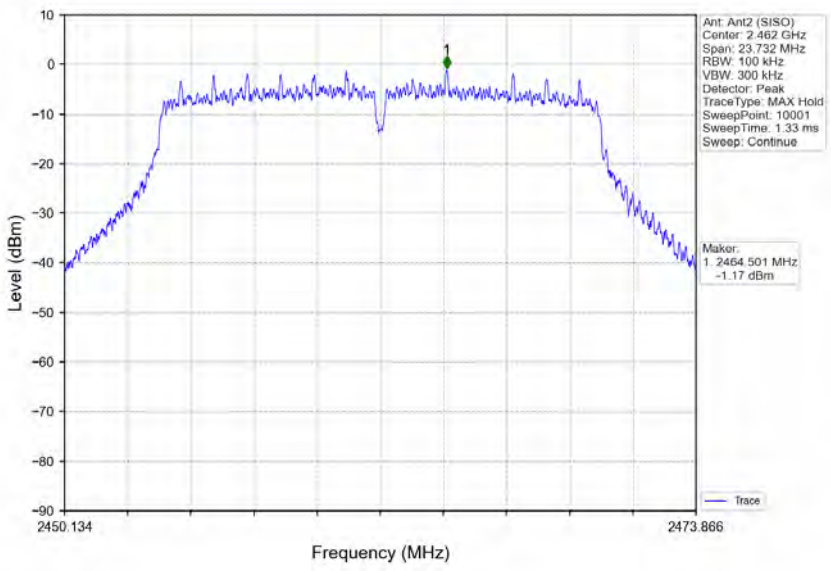
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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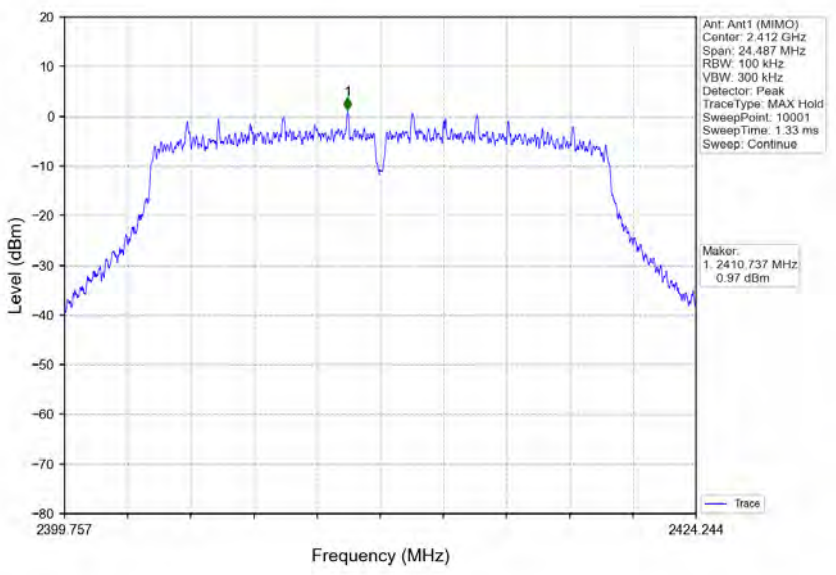
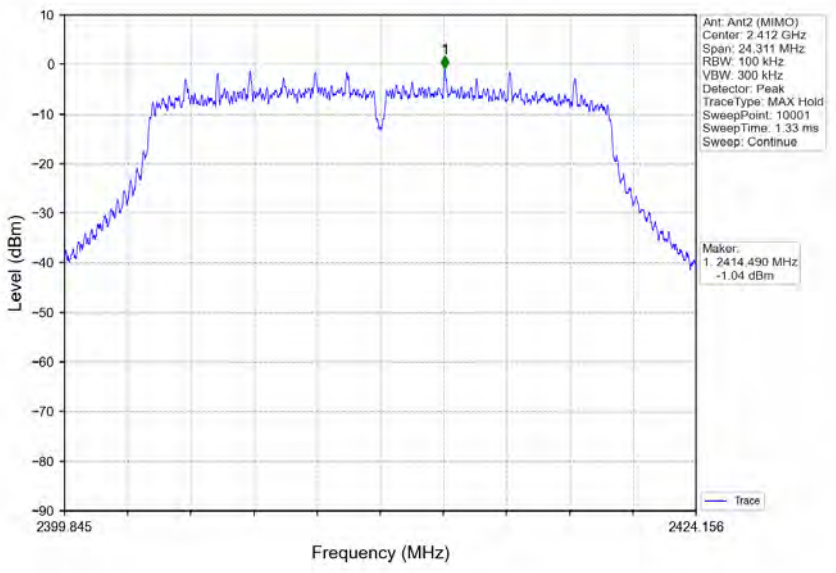
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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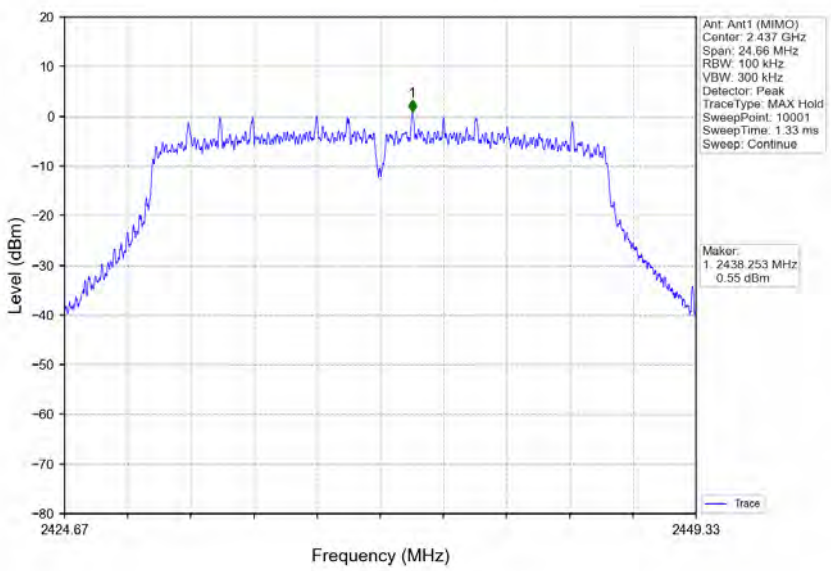
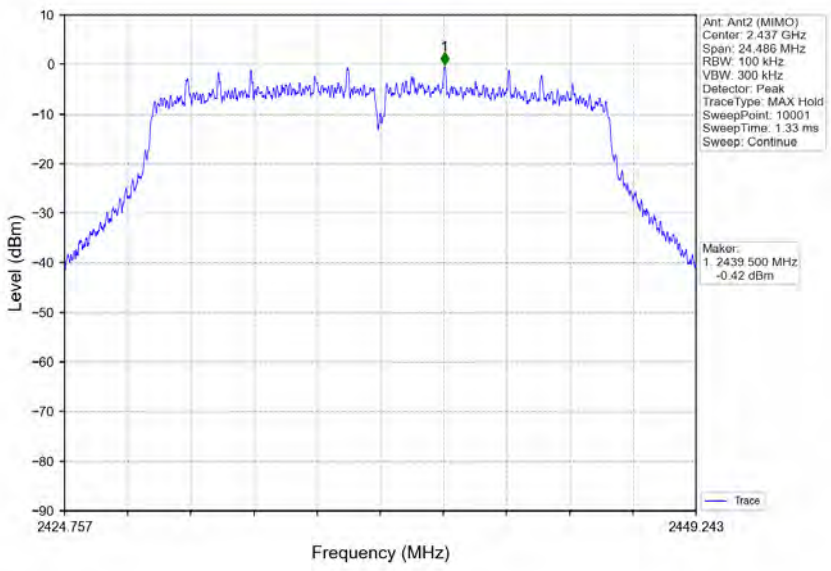
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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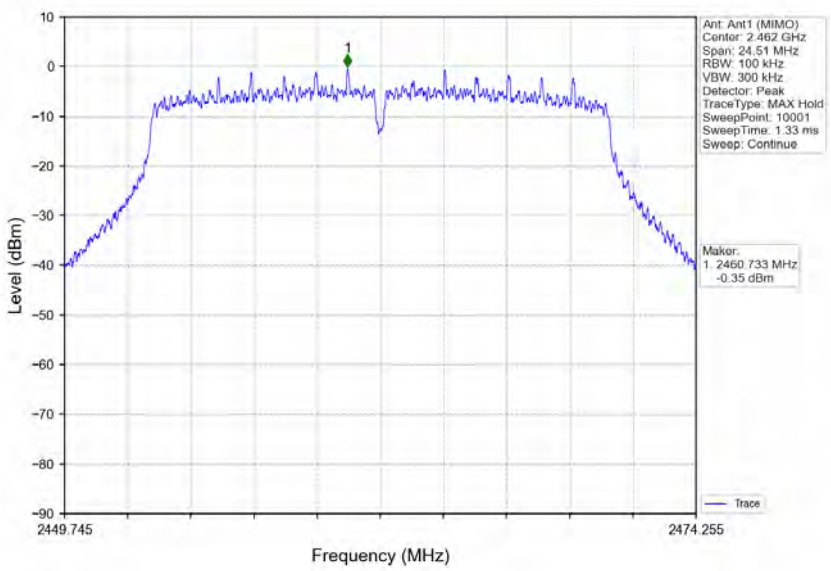
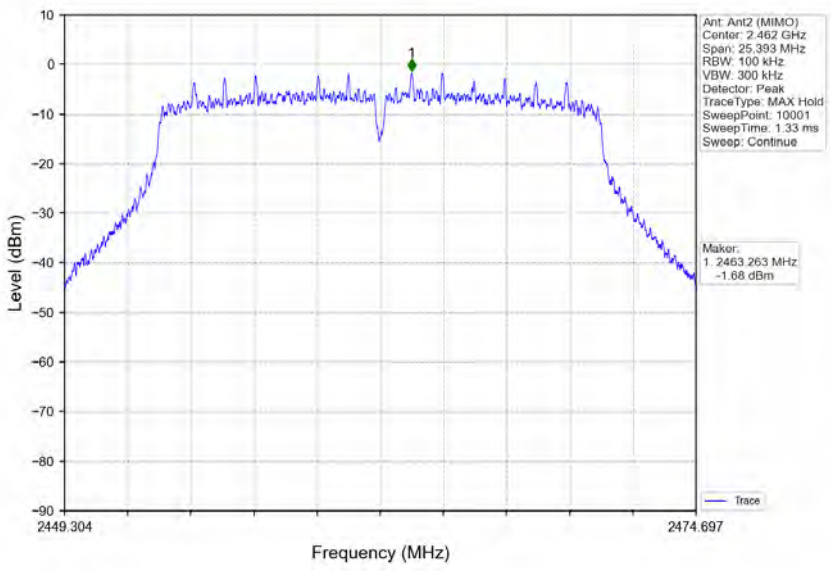
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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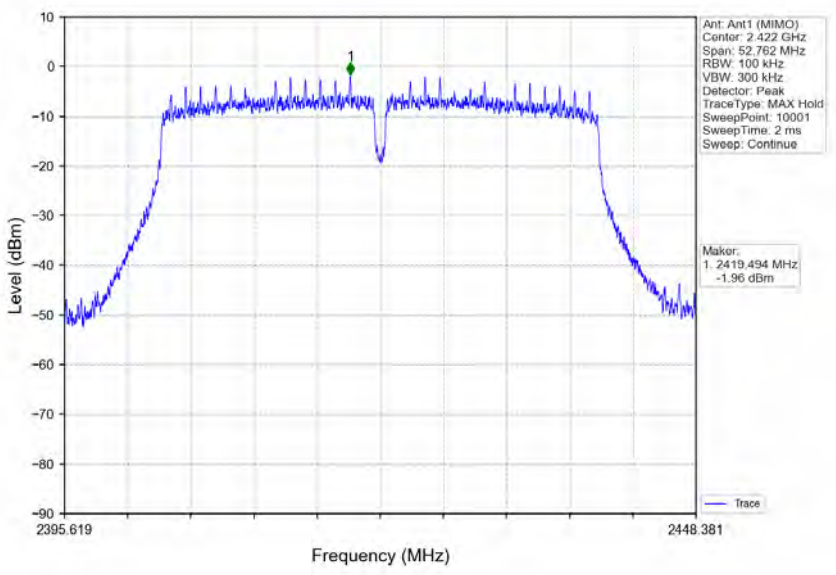
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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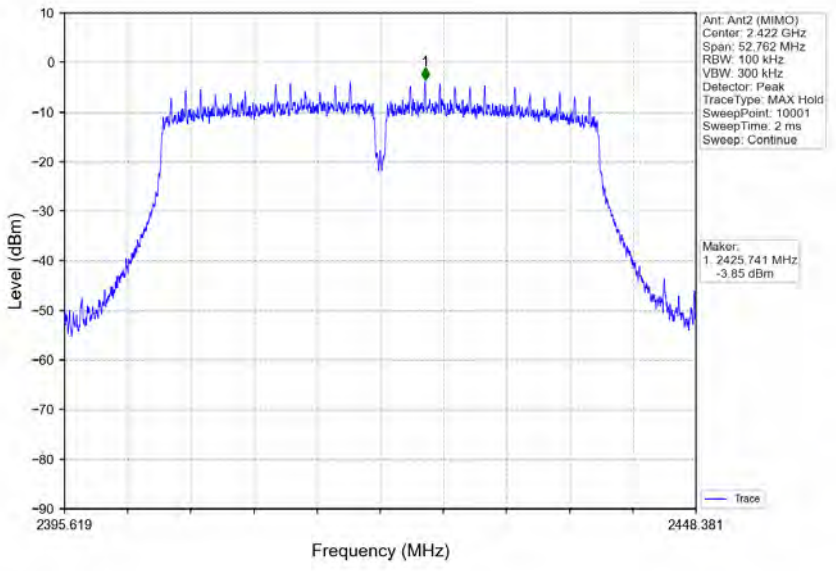

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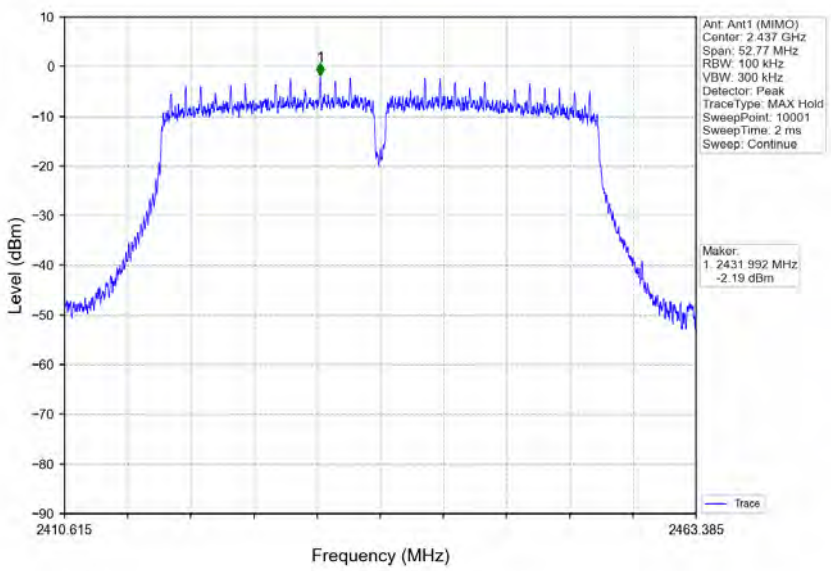
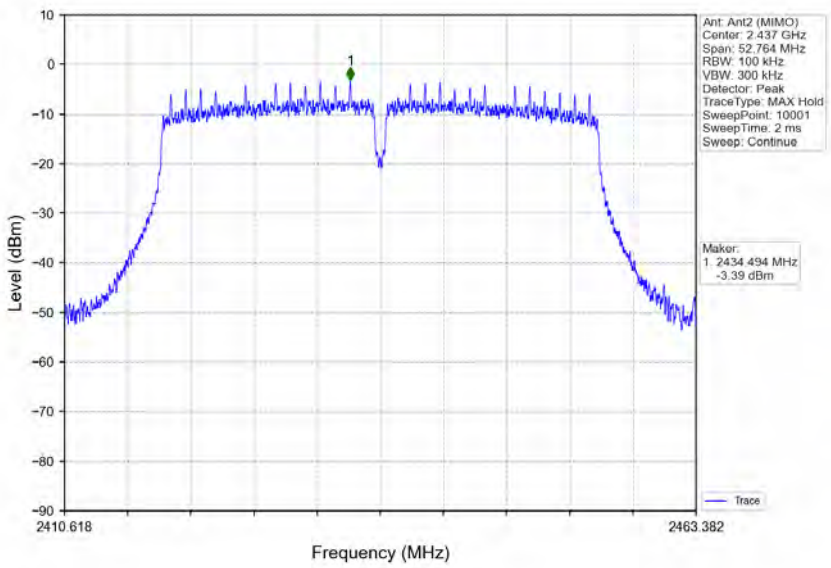
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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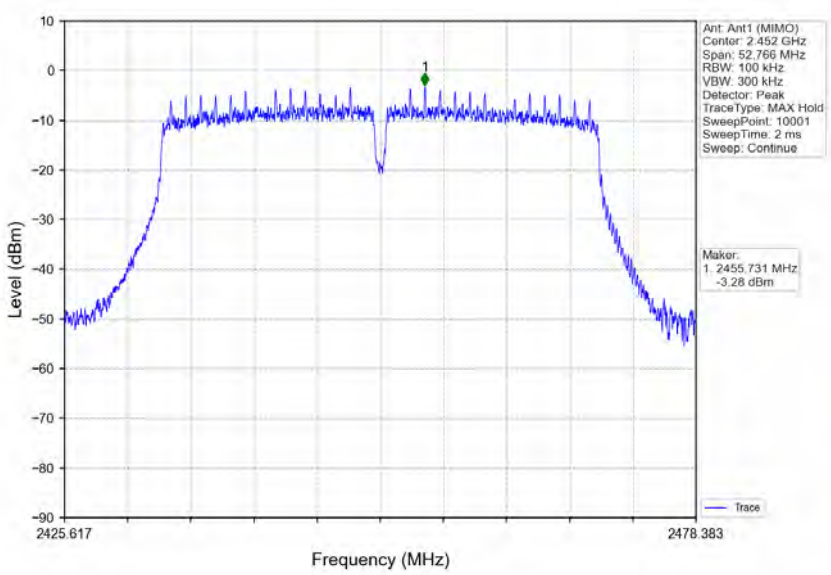
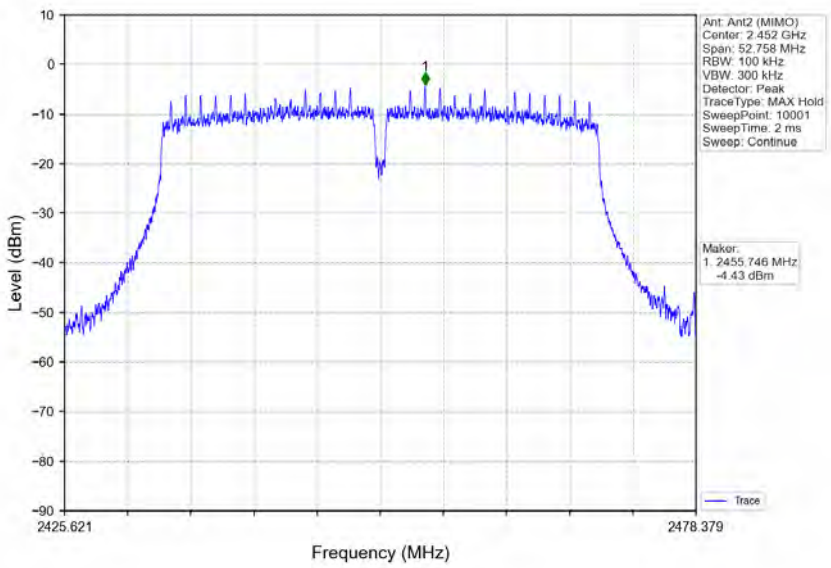
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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	3.74	-26.26	Pass
			2	3.84	-26.16	Pass
		2437	1	3.74	-26.26	Pass
			2	3.84	-26.16	Pass
		2462	1	3.74	-26.26	Pass
			2	3.84	-26.16	Pass
802.11g	SISO	2412	1	0.70	-29.30	Pass
			2	-1.00	-31.00	Pass
		2437	1	0.70	-29.30	Pass
			2	-1.00	-31.00	Pass
		2462	1	0.70	-29.30	Pass
			2	-1.00	-31.00	Pass
802.11n (HT20)	MIMO	2412	1	0.97	-29.03	Pass
			2	-0.42	-30.42	Pass
		2437	1	0.97	-29.03	Pass
			2	-0.42	-30.42	Pass
		2462	1	0.97	-29.03	Pass
			2	-0.42	-30.42	Pass
802.11n (HT40)	MIMO	2422	1	-1.96	-31.96	Pass
			2	-3.39	-33.39	Pass
		2437	1	-1.96	-31.96	Pass
			2	-3.39	-33.39	Pass
		2452	1	-1.96	-31.96	Pass
			2	-3.39	-33.39	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

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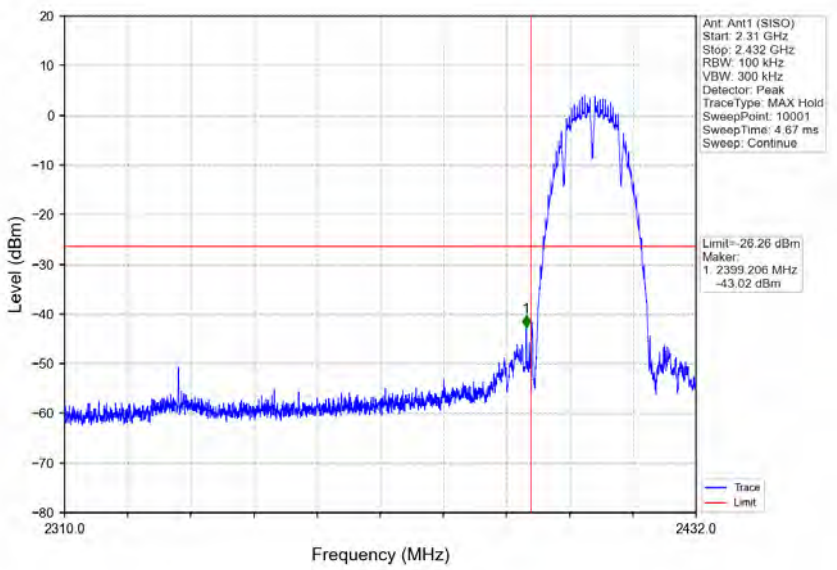
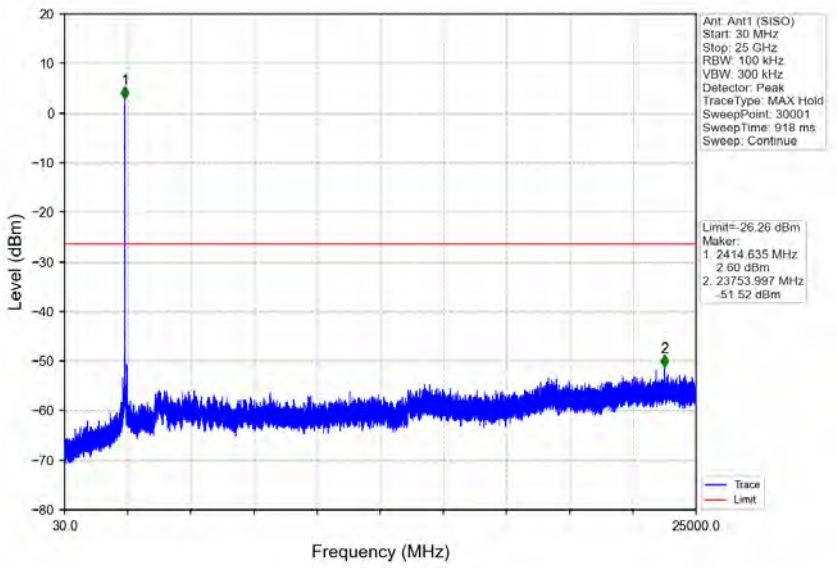
5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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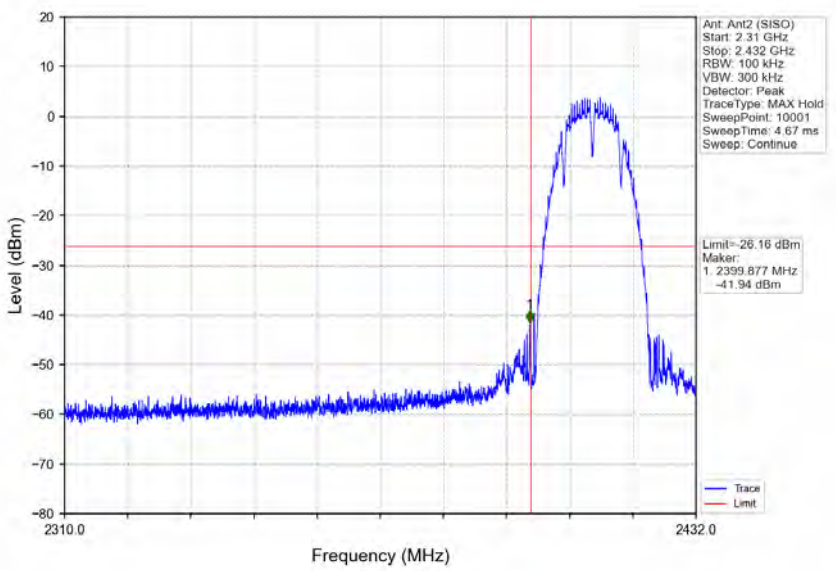
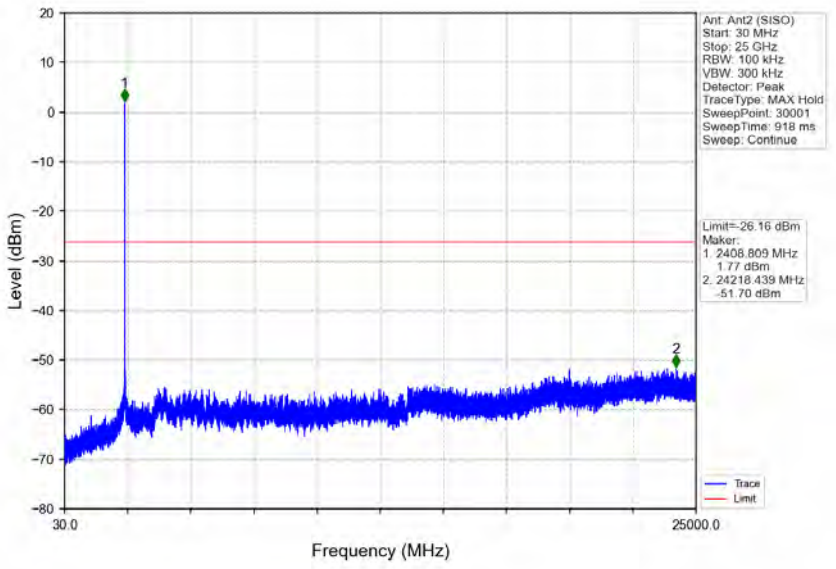
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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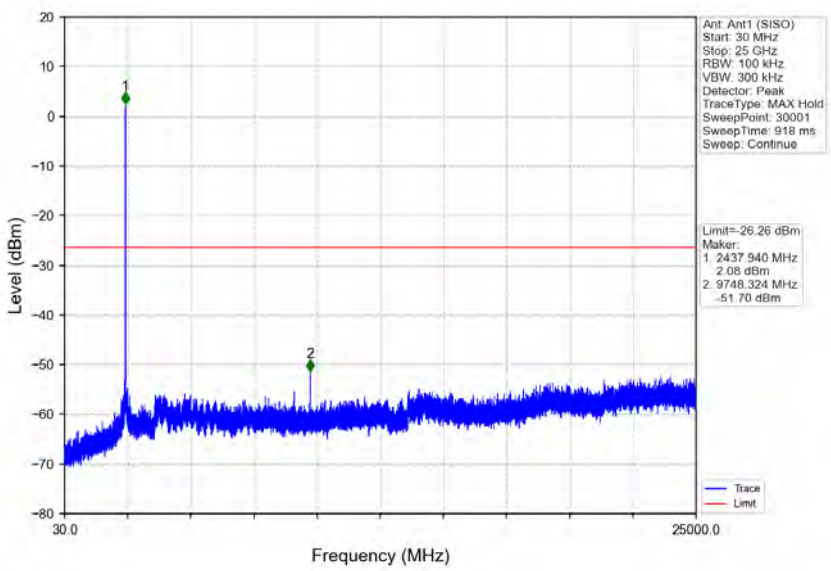
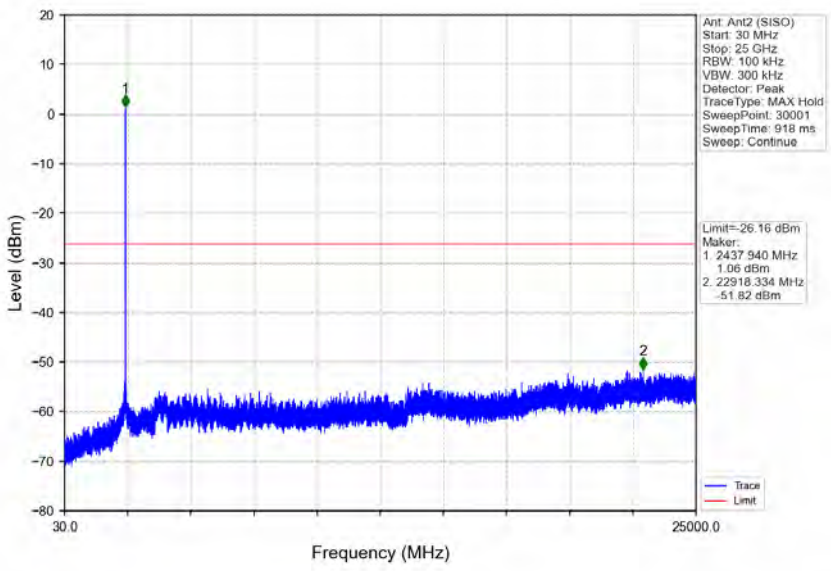
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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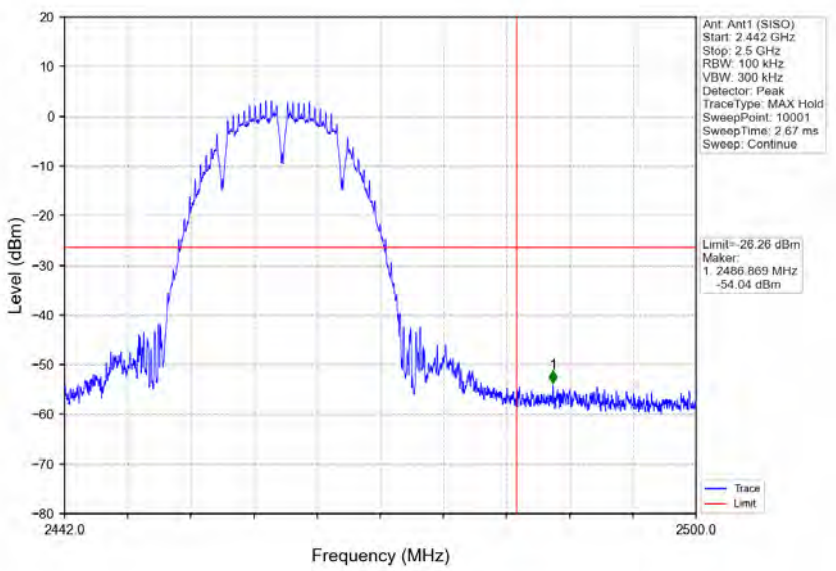
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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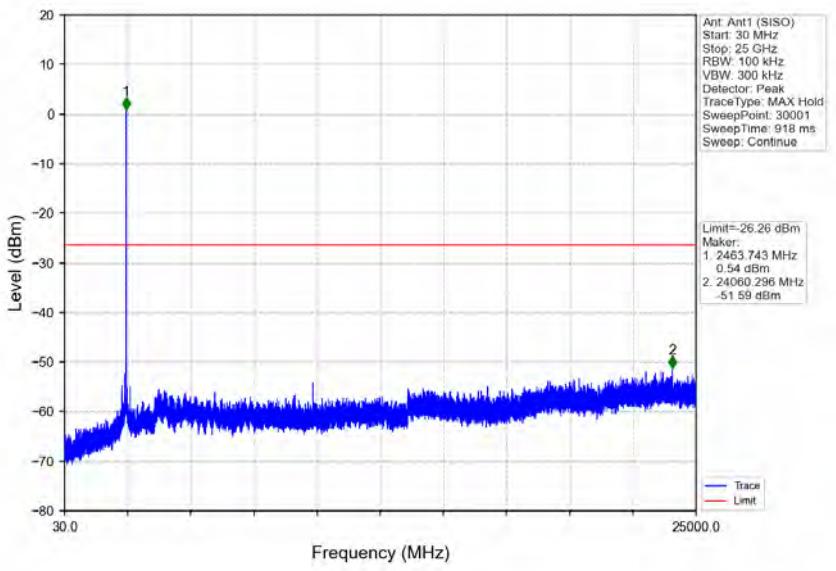

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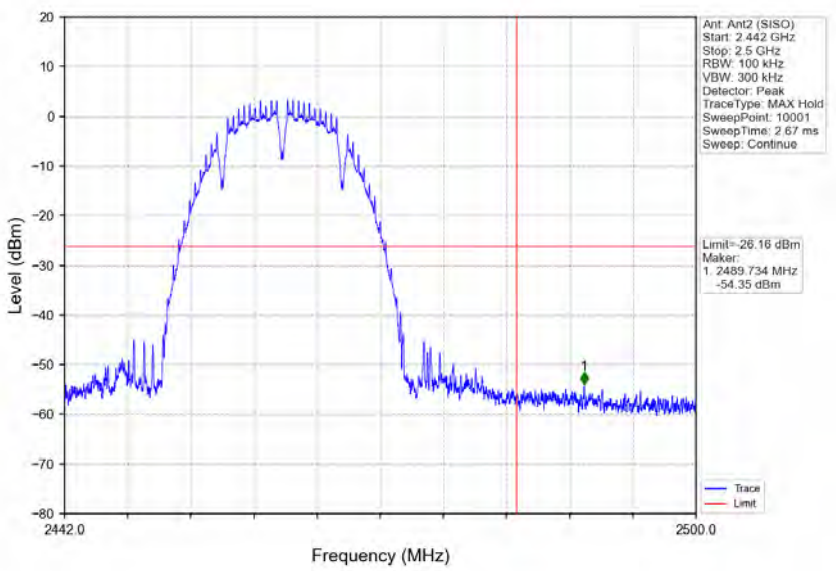
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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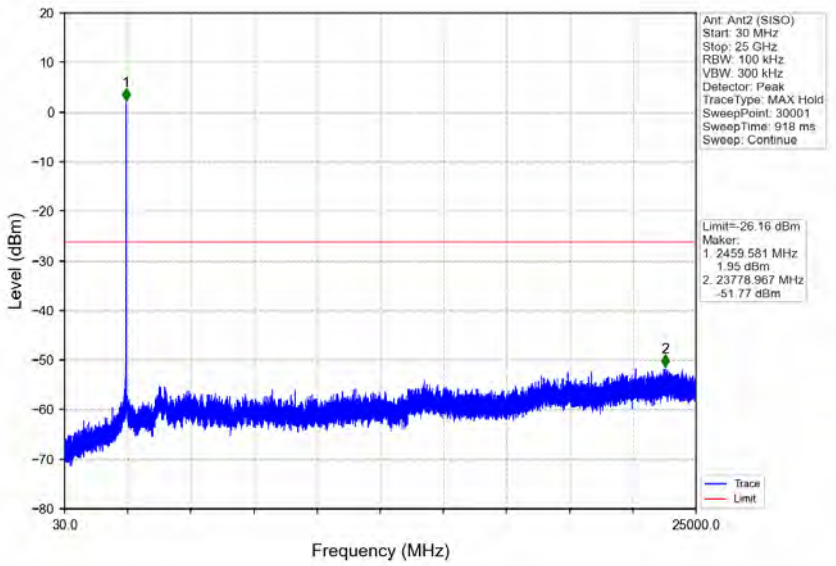

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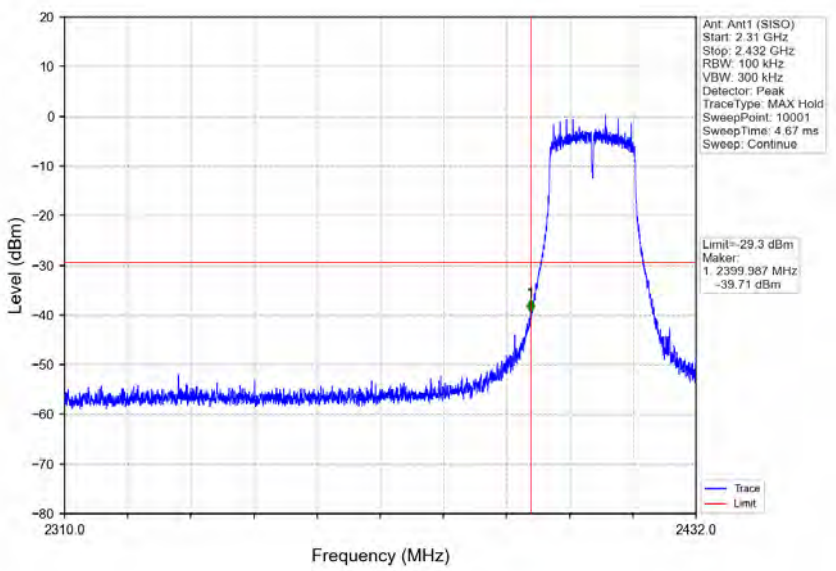
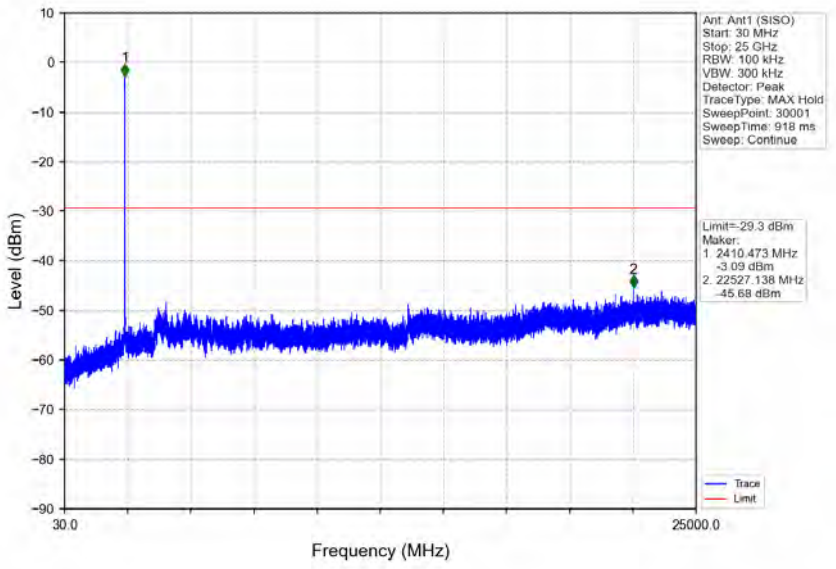
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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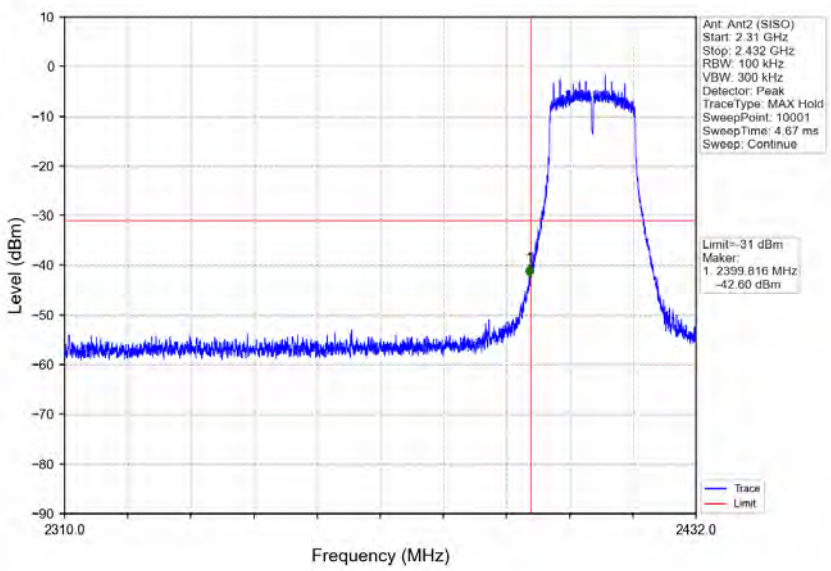
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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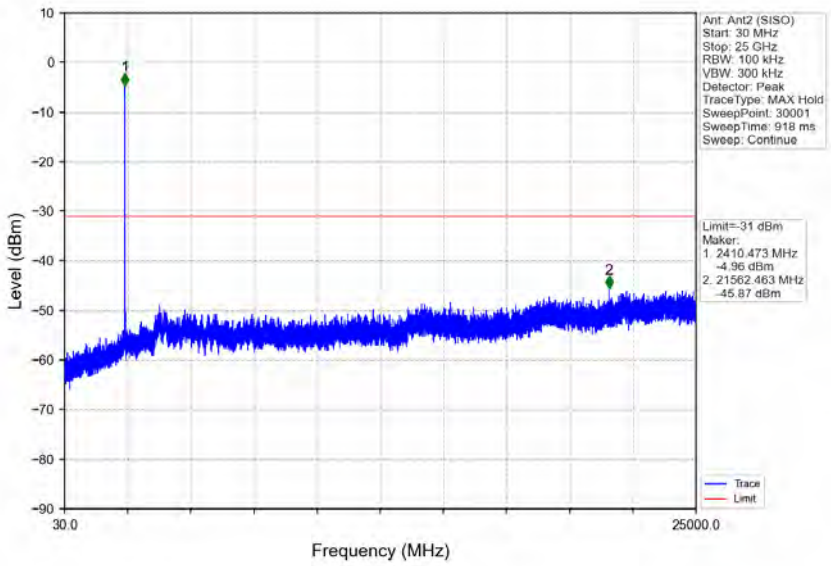

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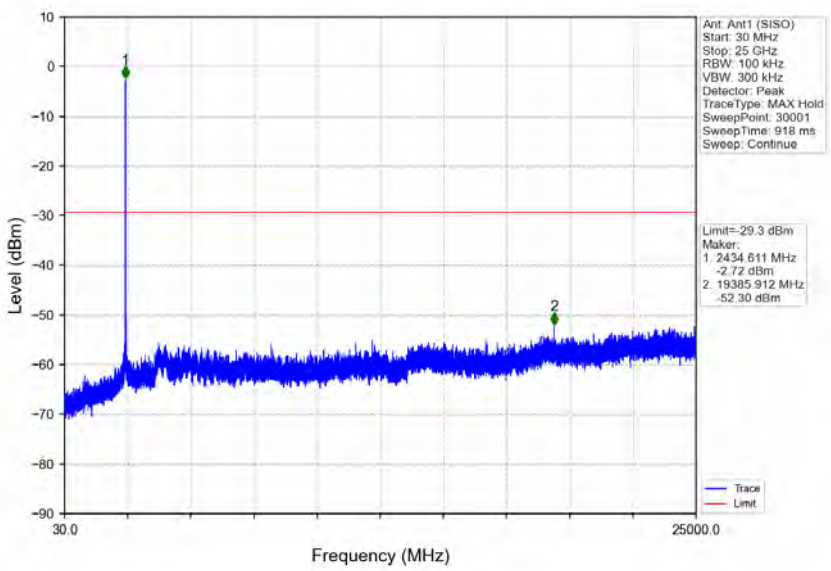
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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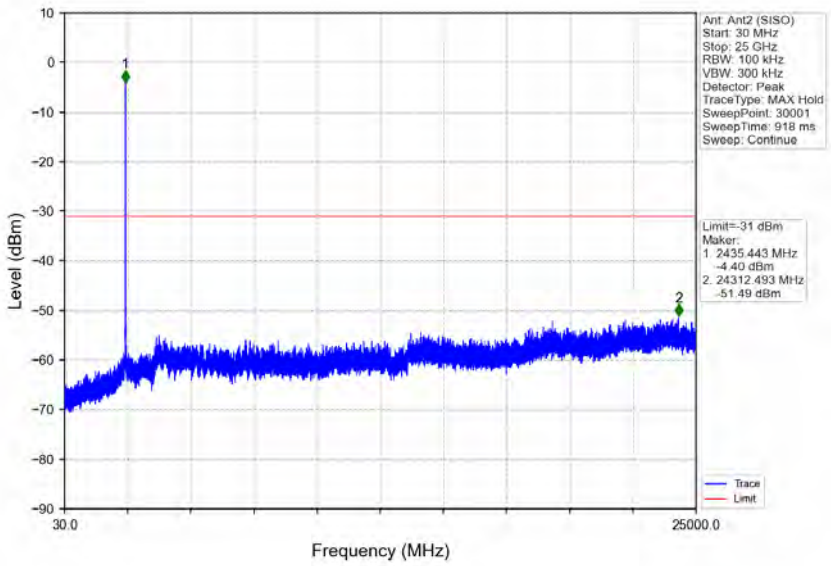

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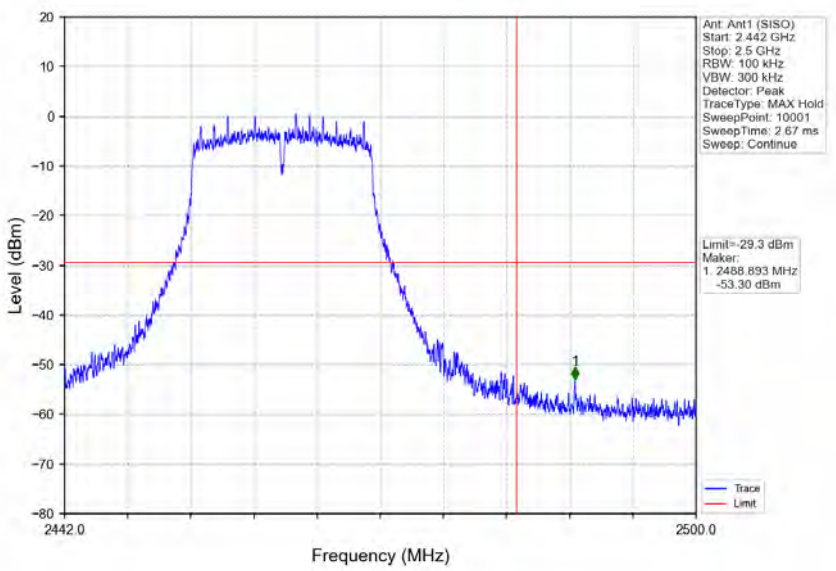
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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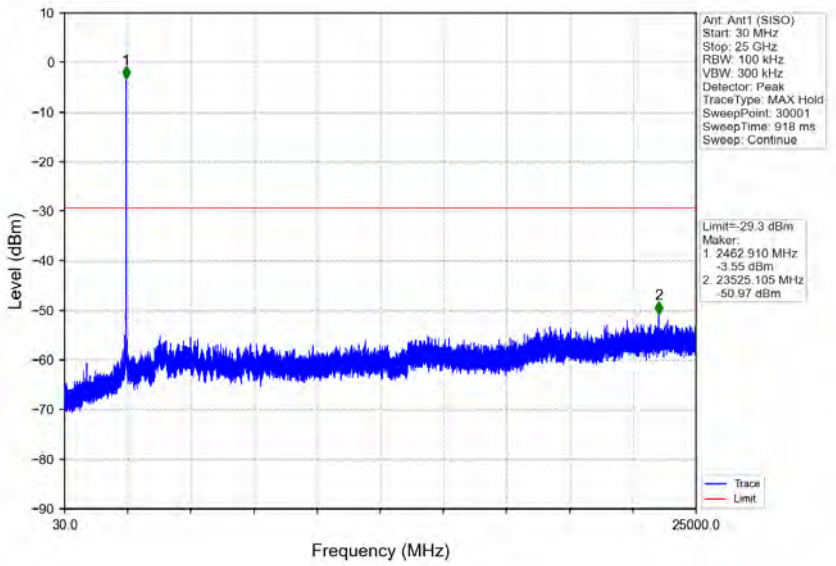

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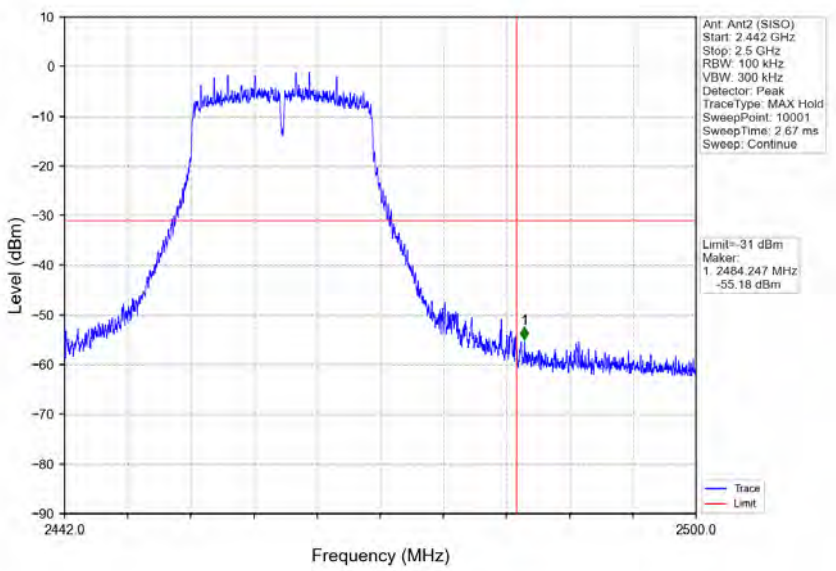
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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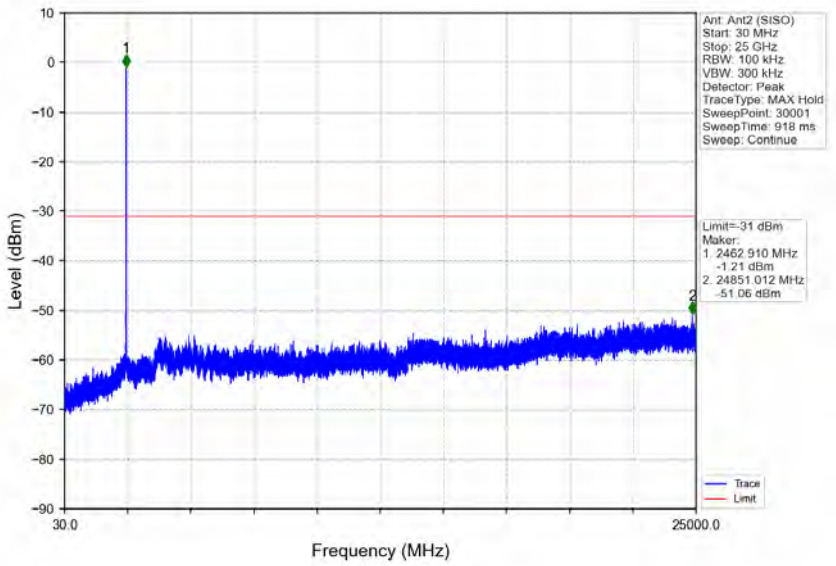

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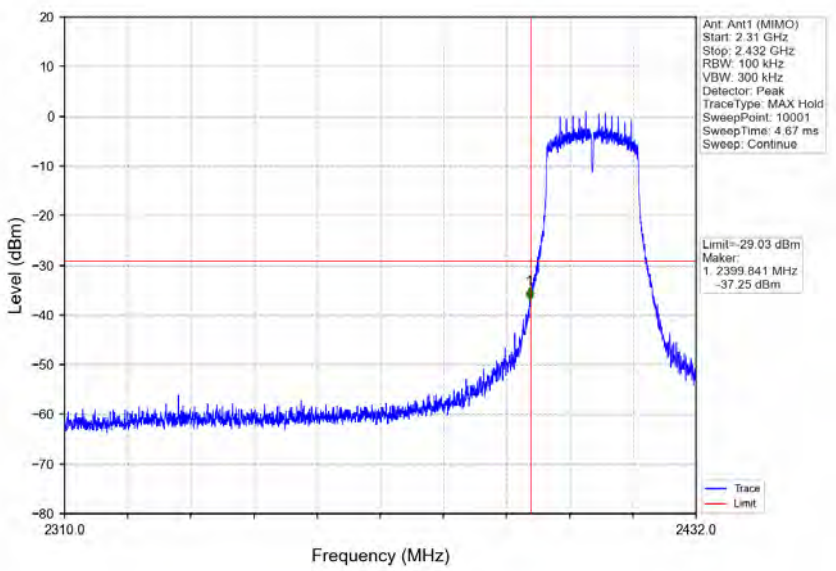
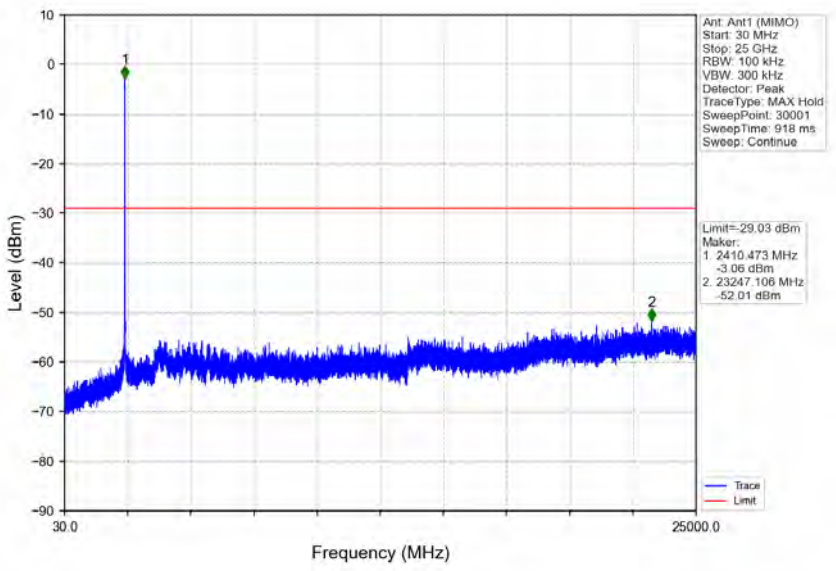
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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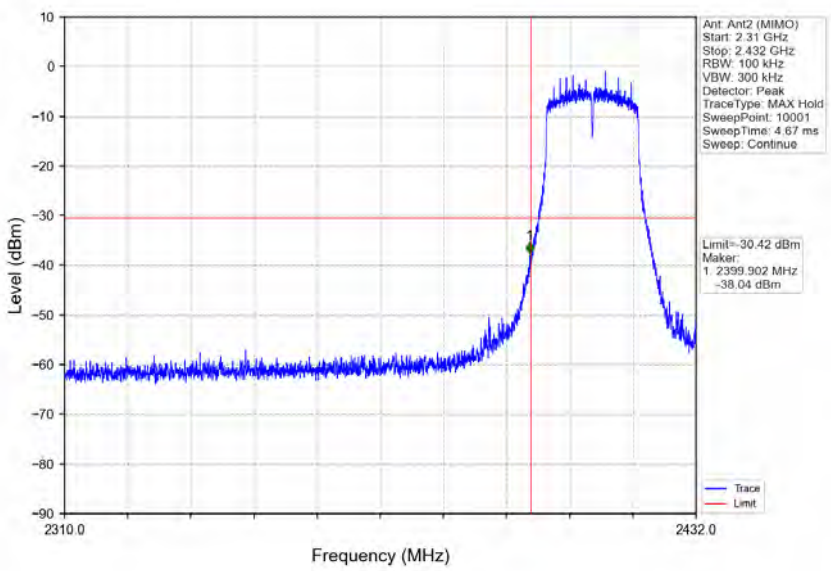
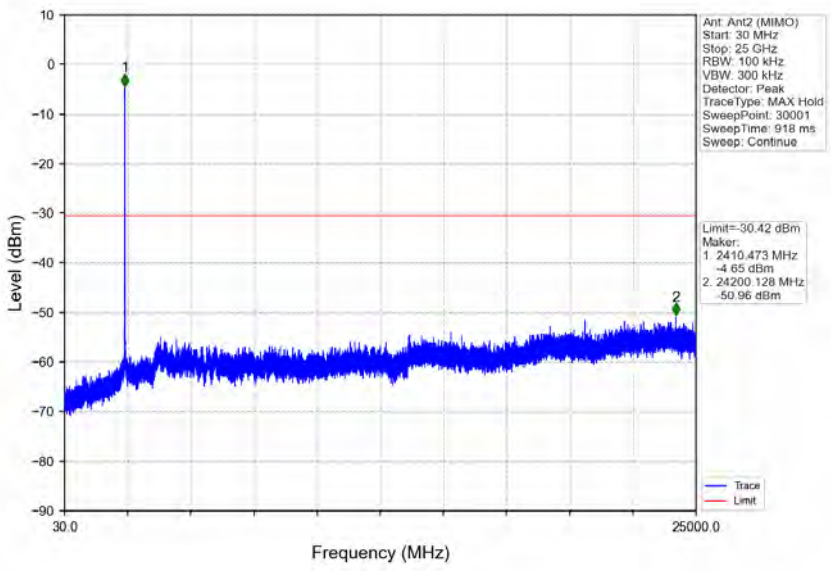
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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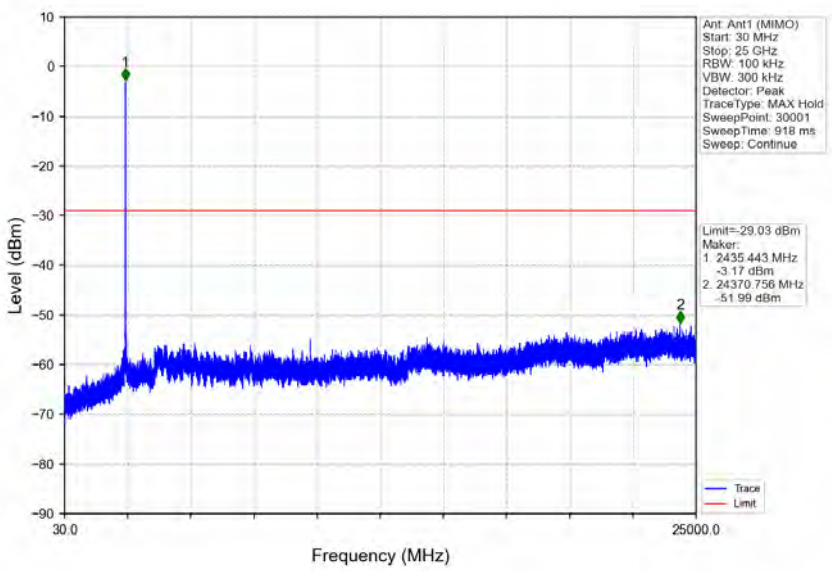
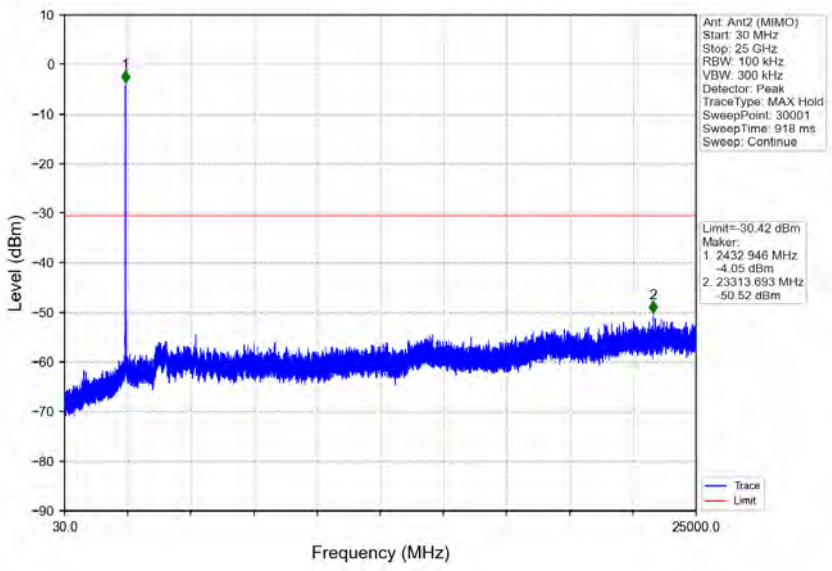
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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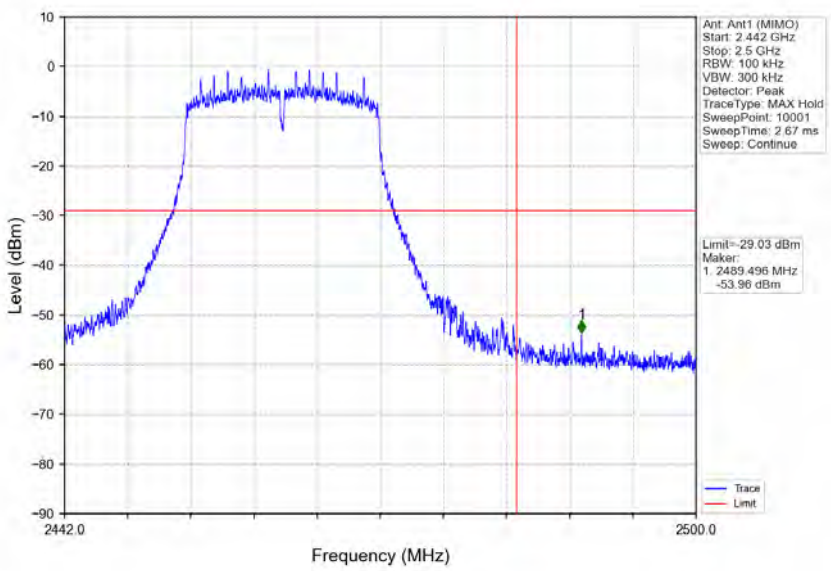
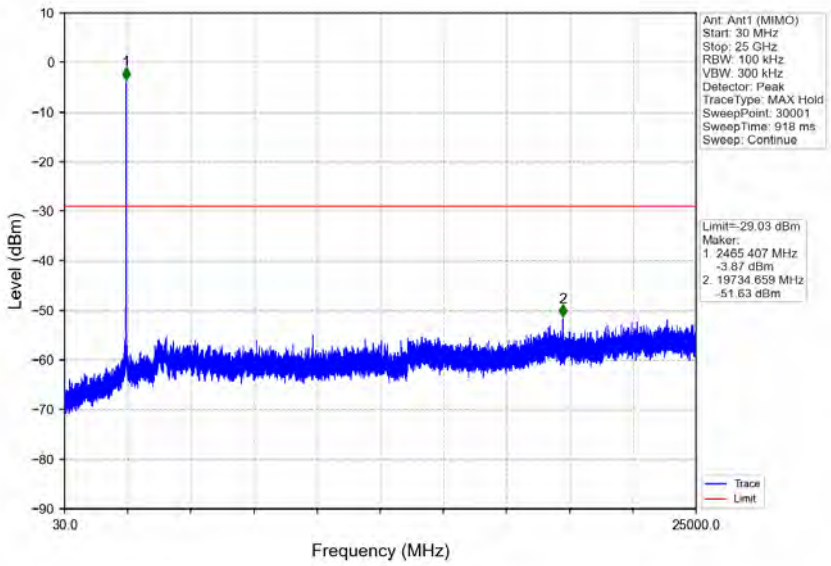
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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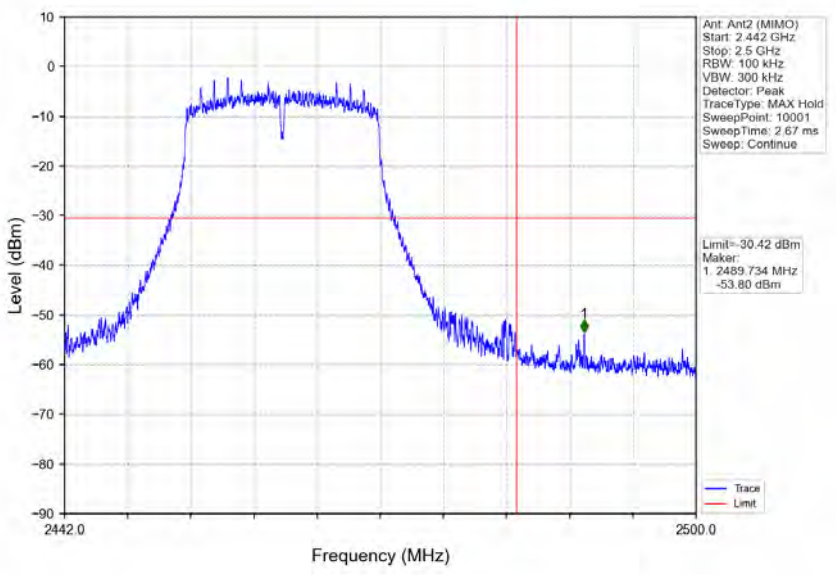
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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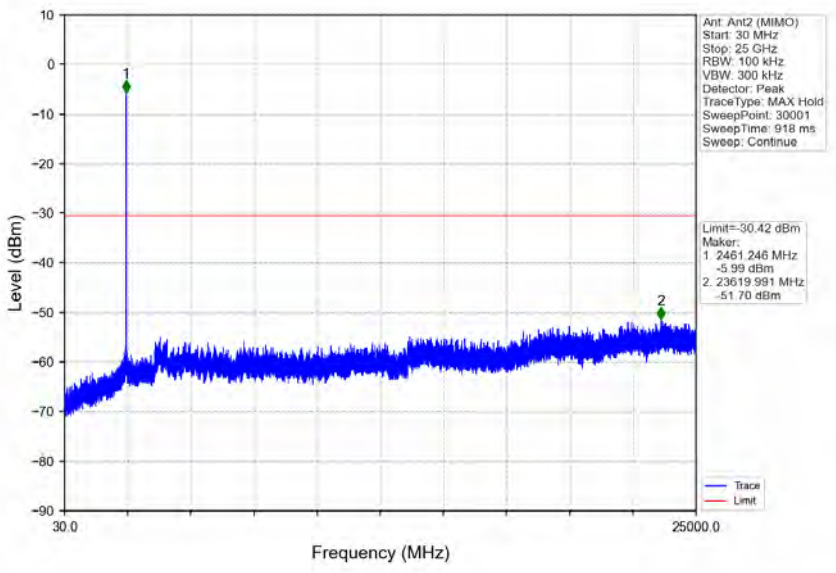

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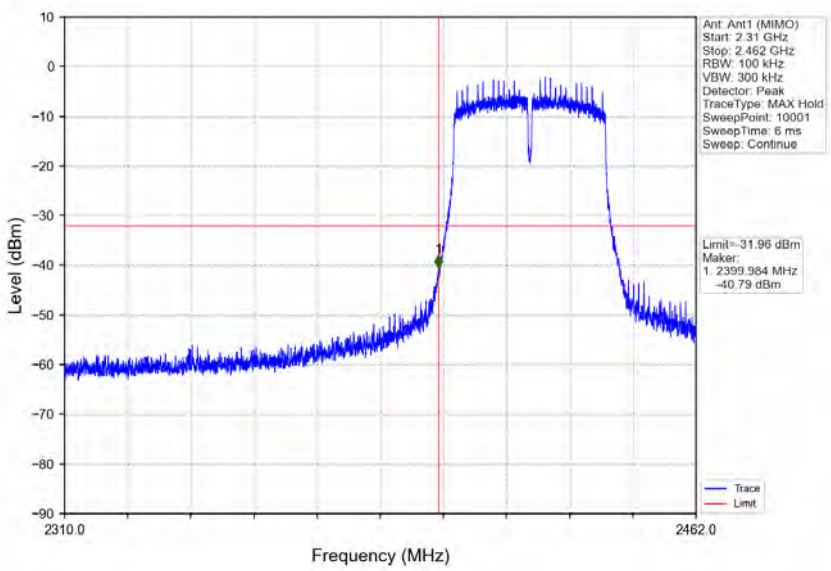
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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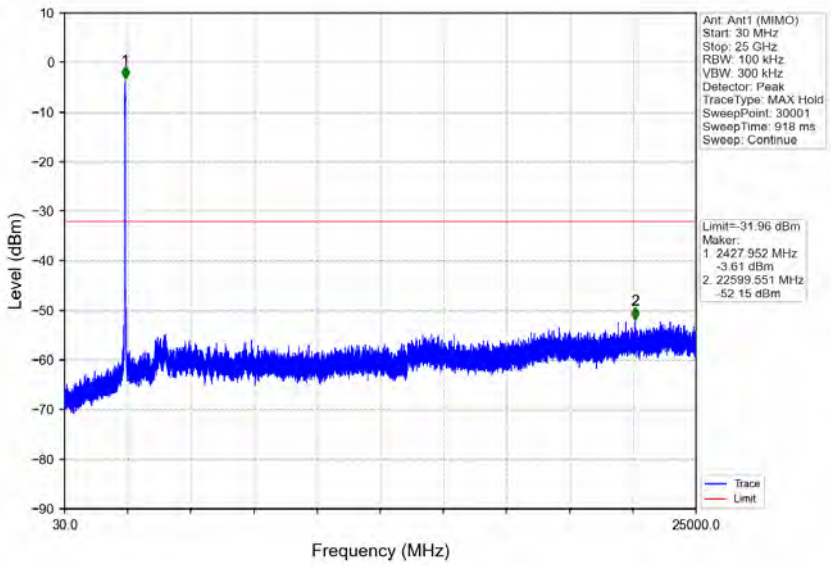

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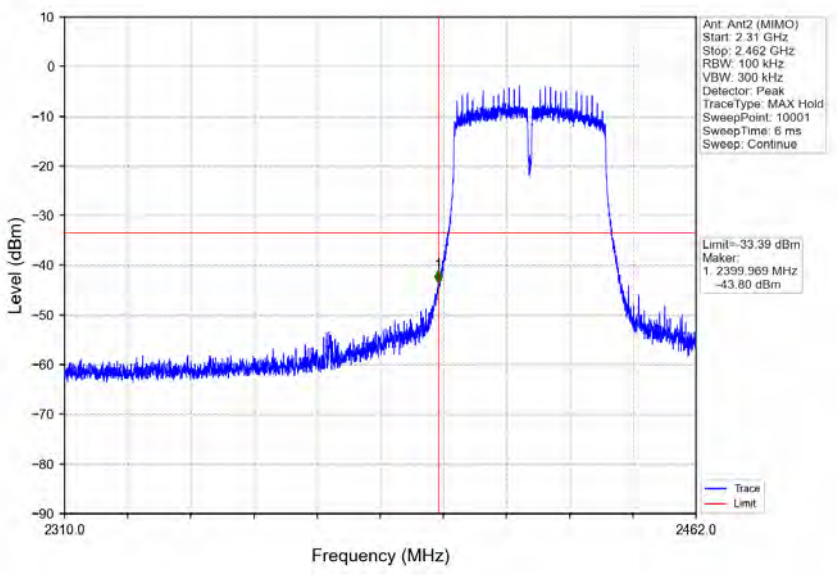
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



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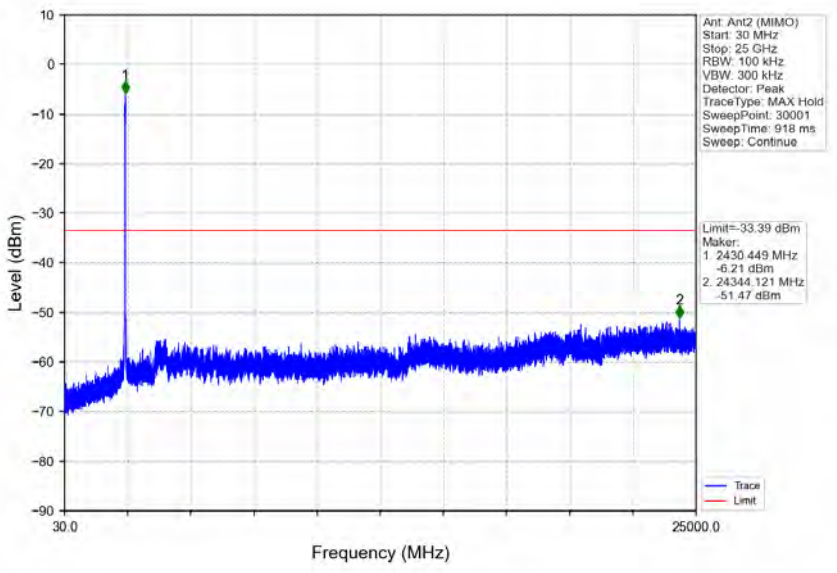

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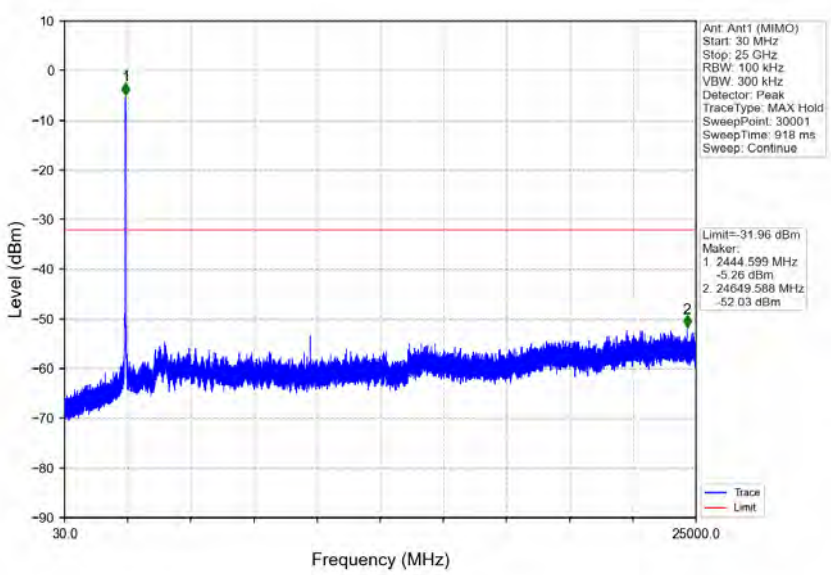
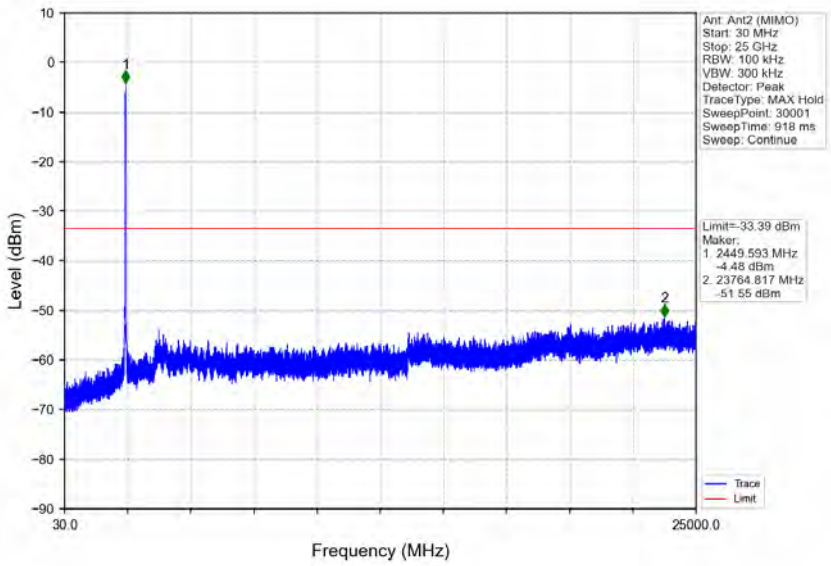
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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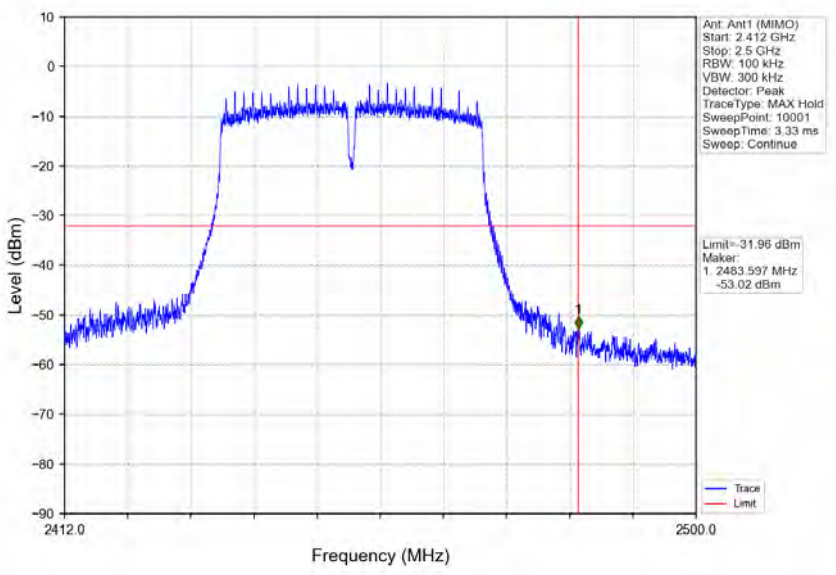
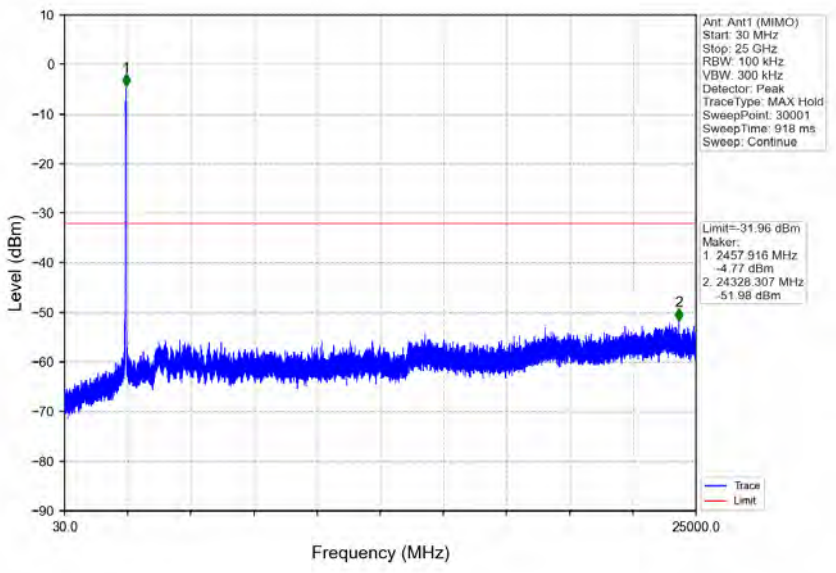
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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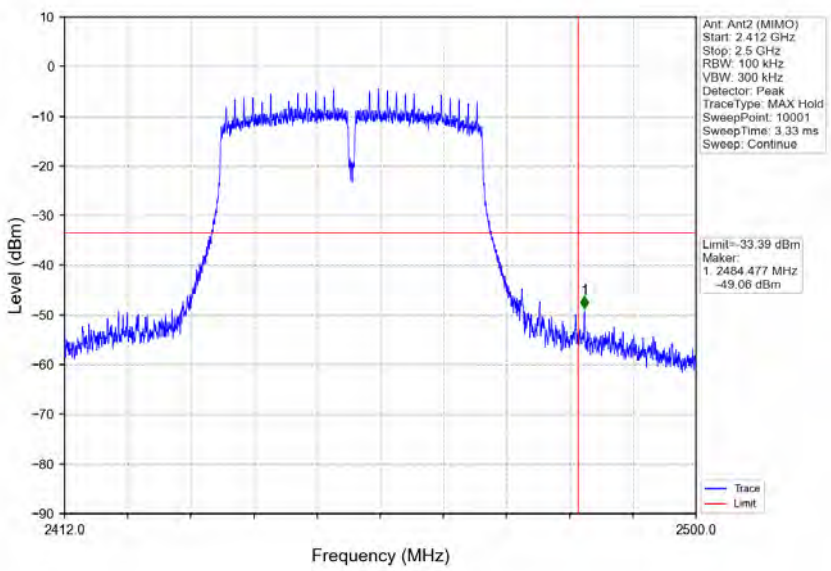
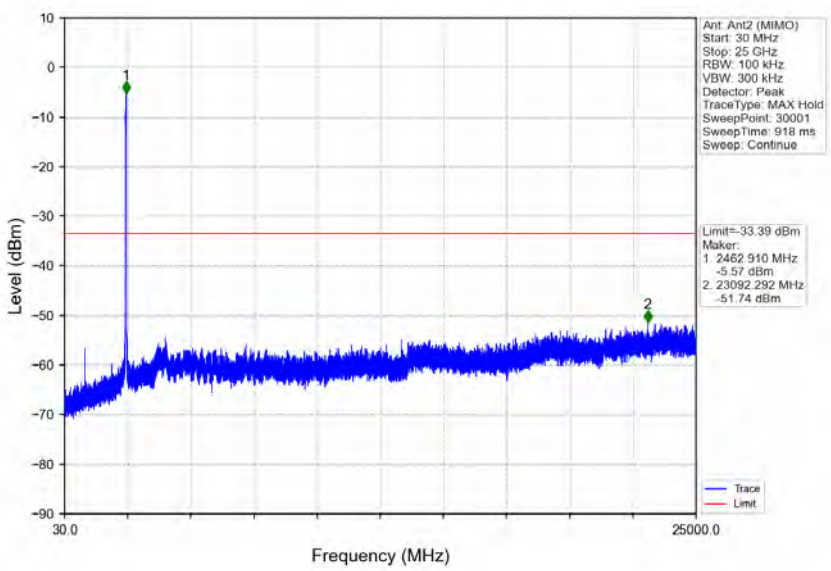
802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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