

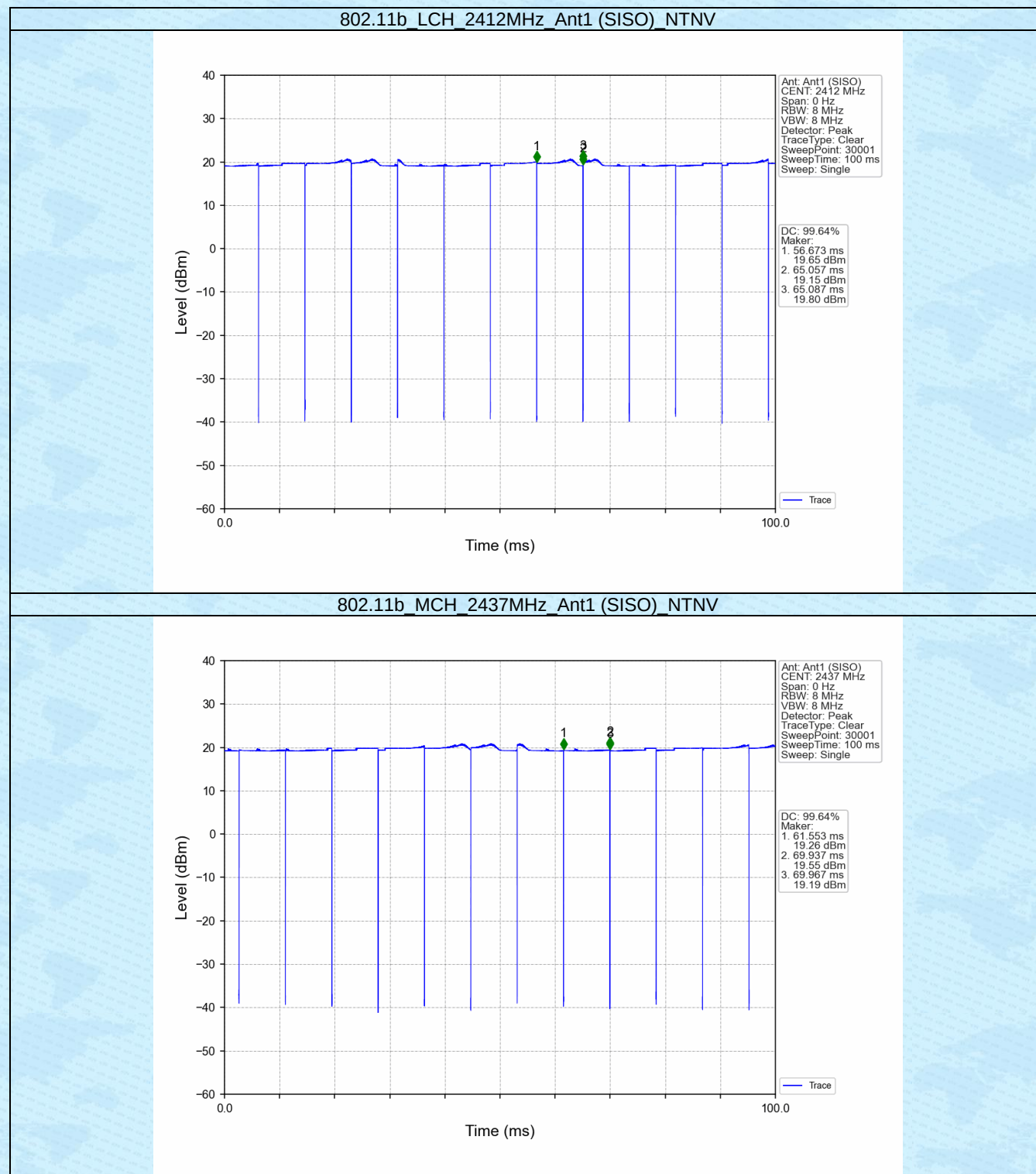
1. Duty Cycle

1.1 Ant1

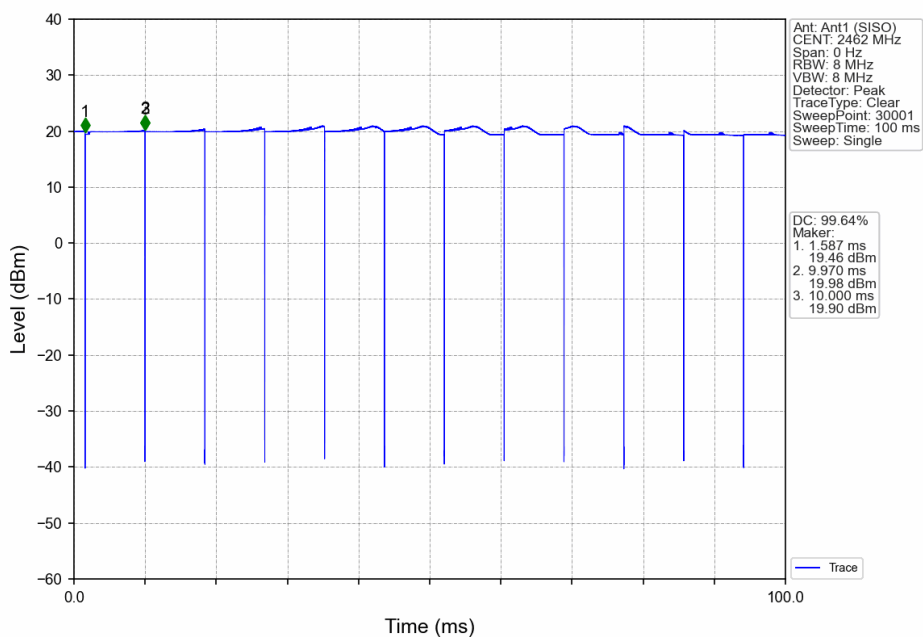
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.384	8.414	99.64	0.02	0.04
		2437	8.384	8.414	99.64	0.02	0.04
		2462	8.383	8.413	99.64	0.02	0.04
802.11g	SISO	2412	1.394	1.428	97.62	0.10	0.03
		2437	1.393	1.427	97.62	0.10	0.03
		2462	1.393	1.427	97.62	0.10	0.00
802.11n (HT20)	MIMO	2412	1.301	1.335	97.45	0.11	0.03
		2437	1.302	1.336	97.46	0.11	0.03
		2462	1.301	1.335	97.45	0.11	0.03
802.11n (HT40)	MIMO	2422	0.649	0.683	95.02	0.22	0.00
		2437	0.649	0.683	95.02	0.22	0.03
		2452	0.649	0.683	95.02	0.22	0.07

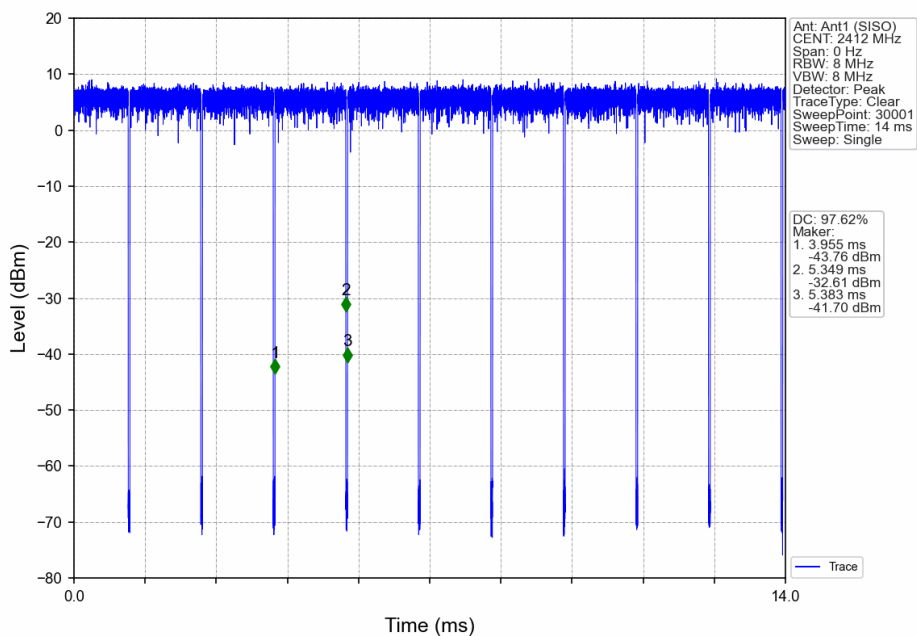
1.1.2 Test Graph



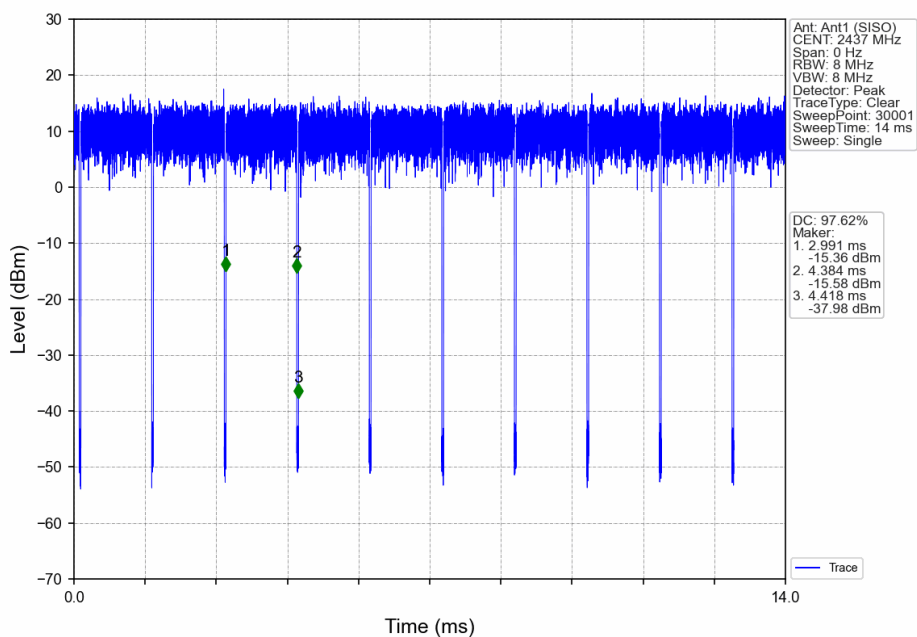
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



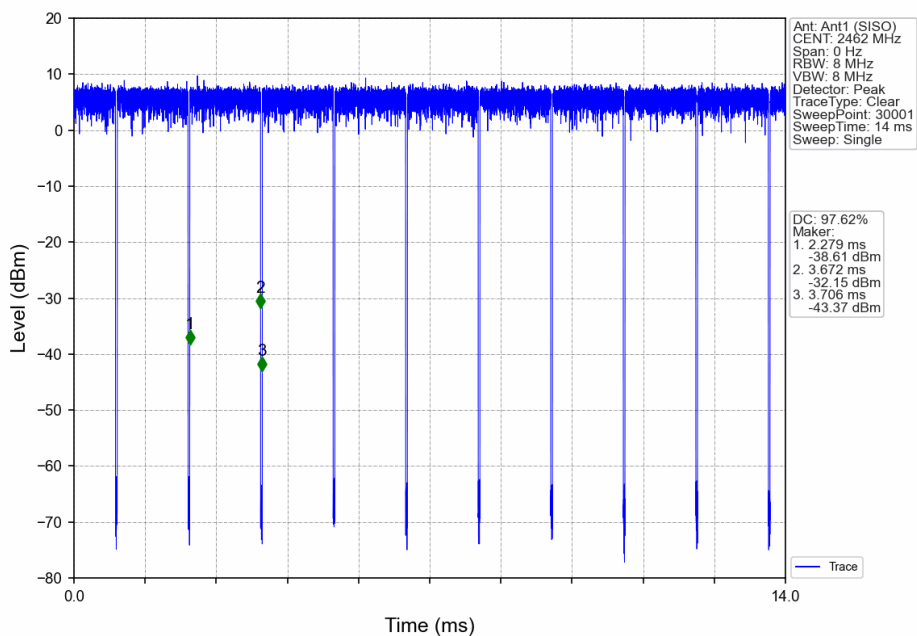
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



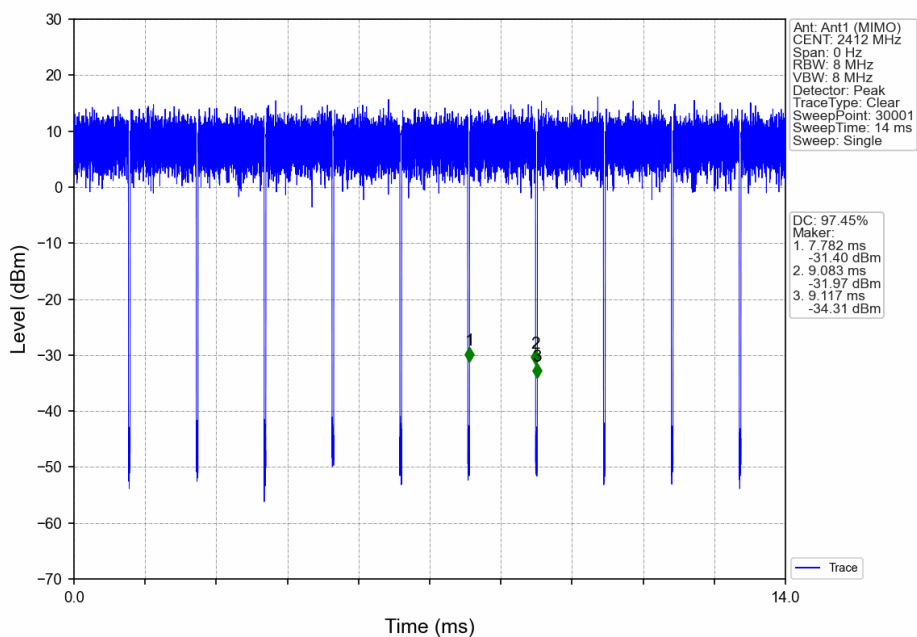
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



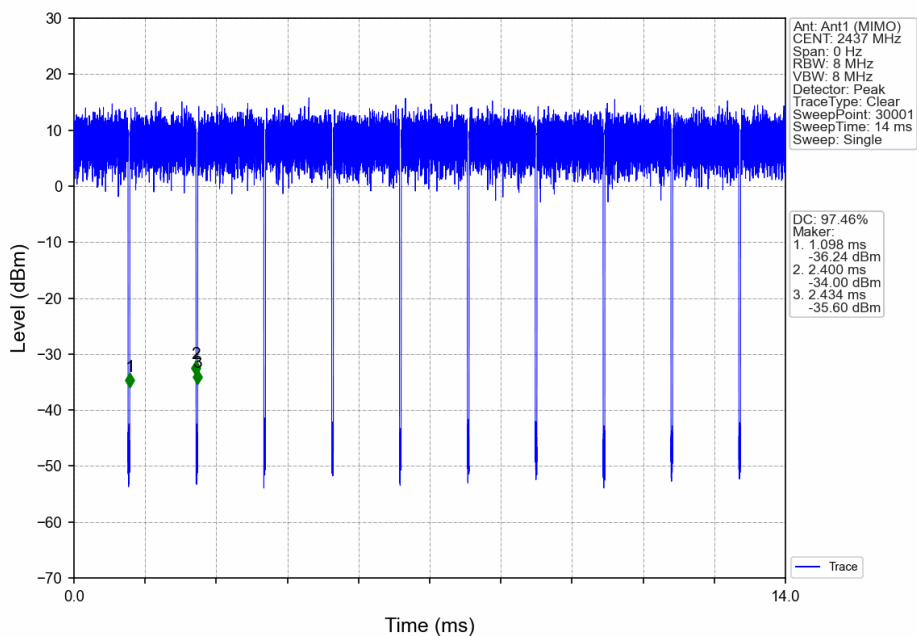
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



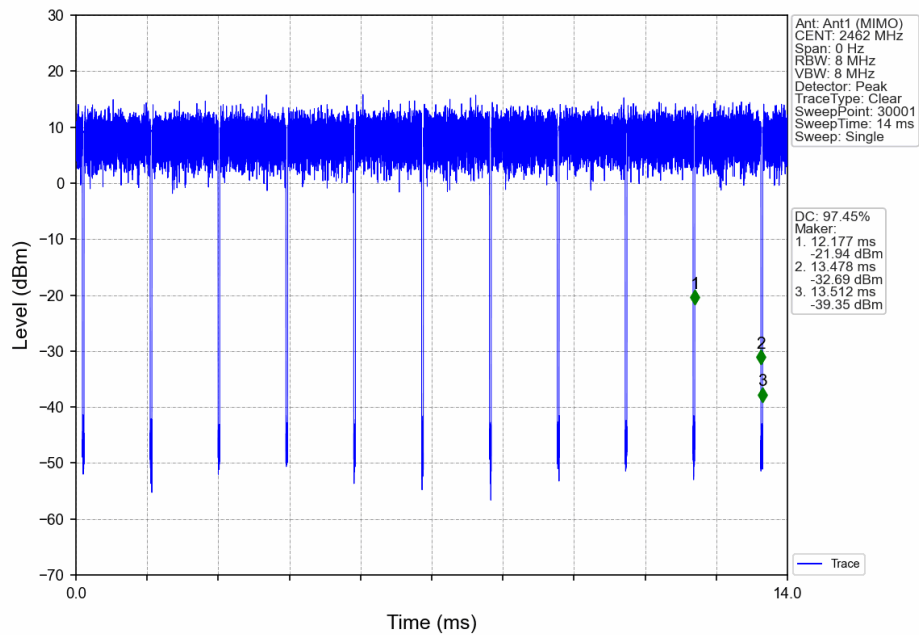
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



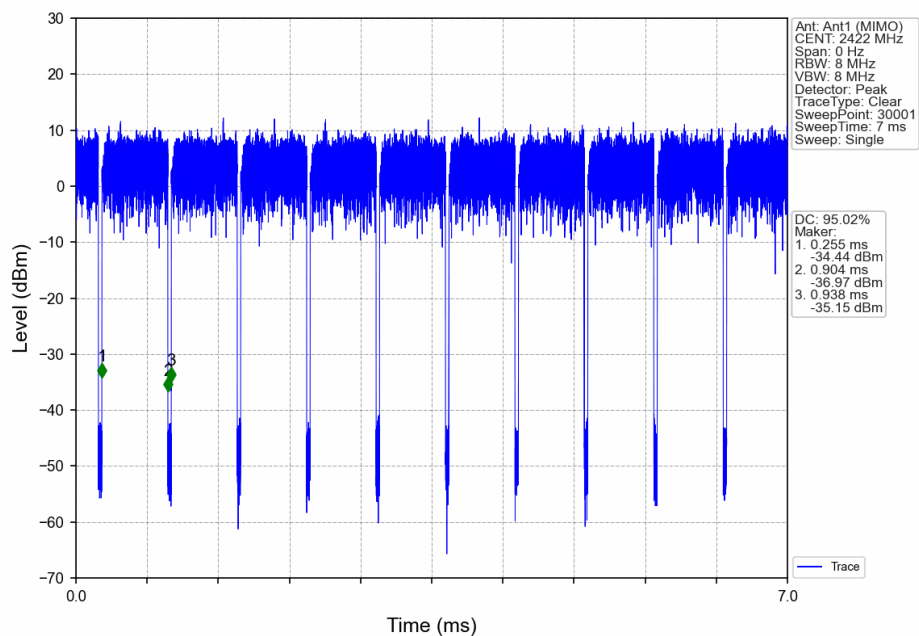
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



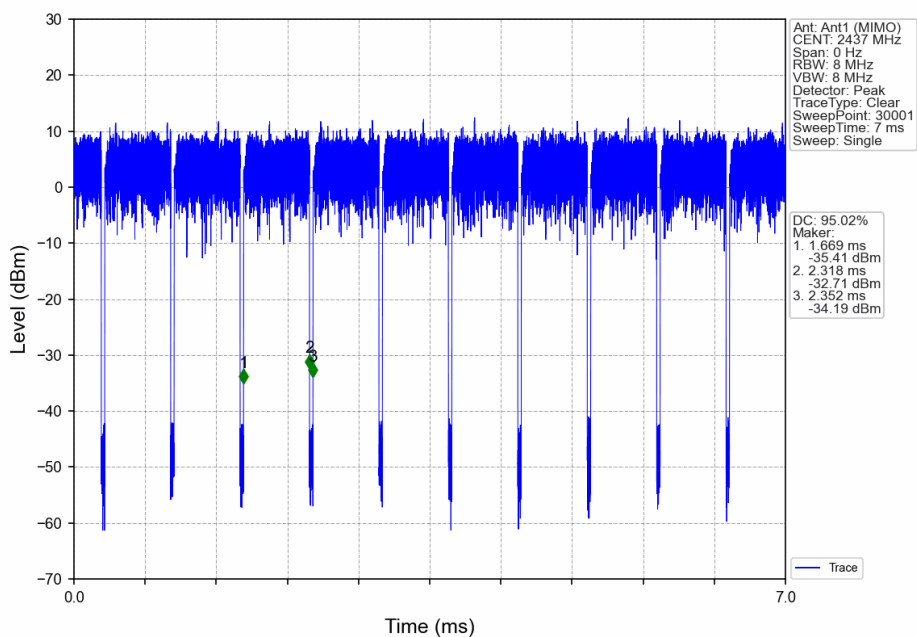
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



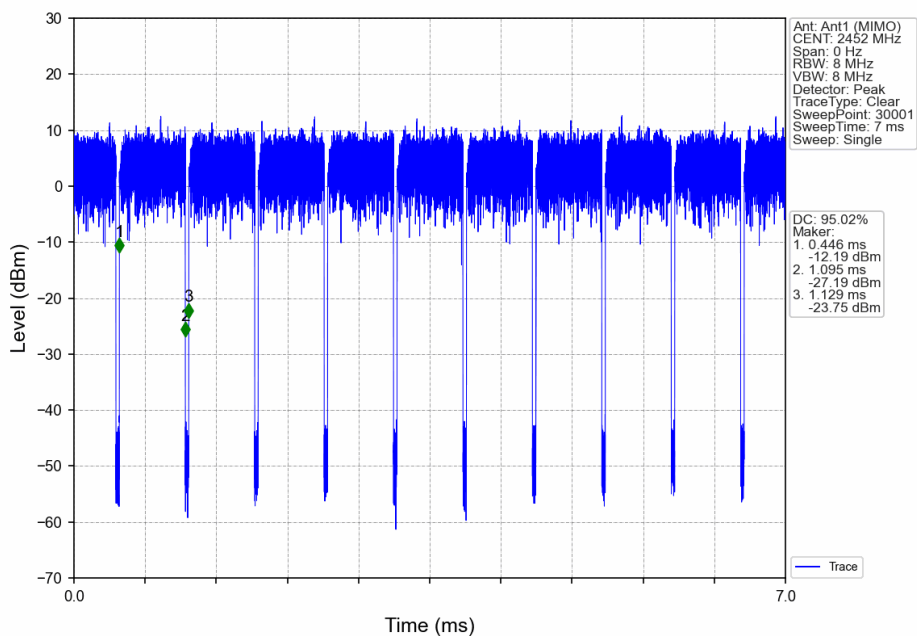
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



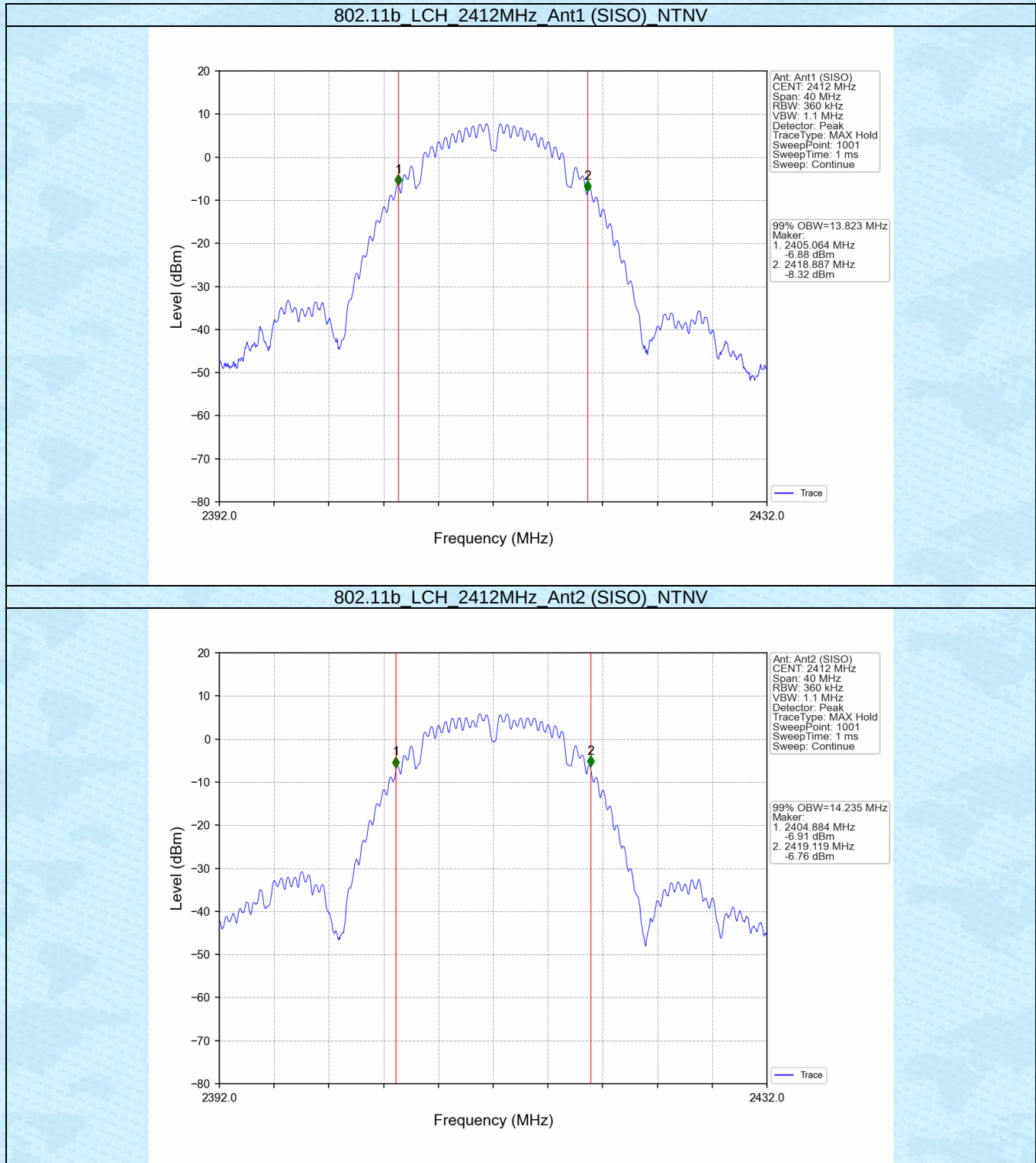
2. Bandwidth

2.1 OBW

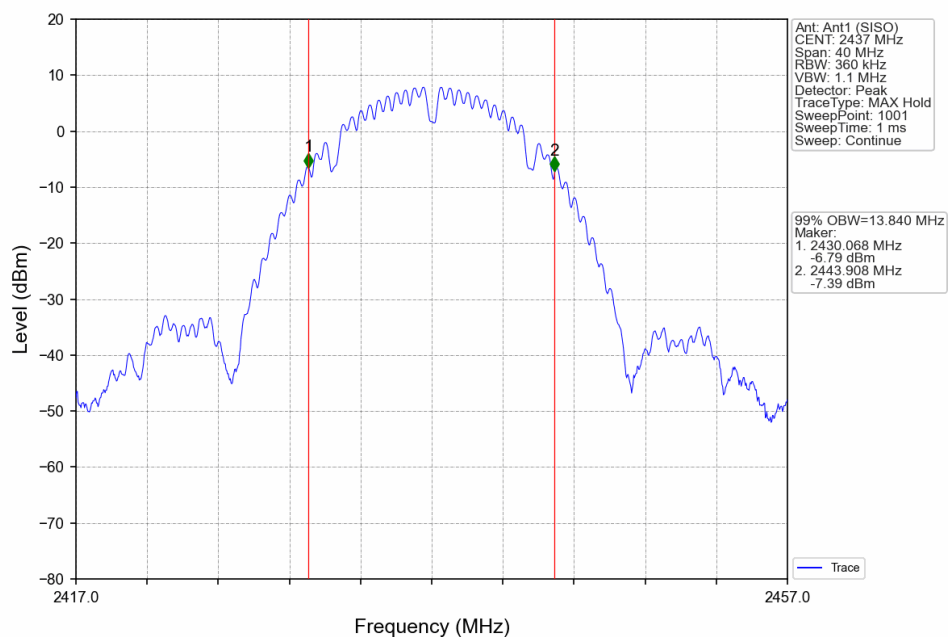
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.823	Pass
			2	14.235	Pass
		2437	1	13.840	Pass
			2	13.861	Pass
		2462	1	13.898	Pass
			2	13.960	Pass
802.11g	SISO	2412	1	17.366	Pass
			2	16.963	Pass
		2437	1	17.364	Pass
			2	16.965	Pass
		2462	1	17.349	Pass
			2	16.972	Pass
802.11n (HT20)	MIMO	2412	1	18.116	Pass
			2	17.758	Pass
		2437	1	18.110	Pass
			2	17.755	Pass
		2462	1	18.120	Pass
			2	17.768	Pass
802.11n (HT40)	MIMO	2422	1	36.363	Pass
			2	36.807	Pass
		2437	1	36.327	Pass
			2	36.853	Pass
		2452	1	36.357	Pass
			2	36.911	Pass

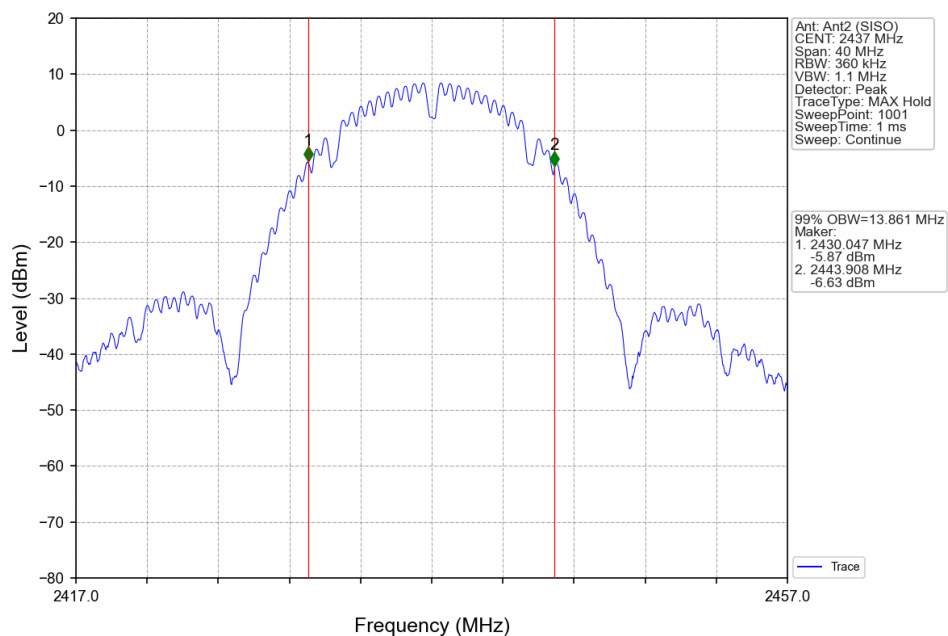
2.1.2 Test Graph



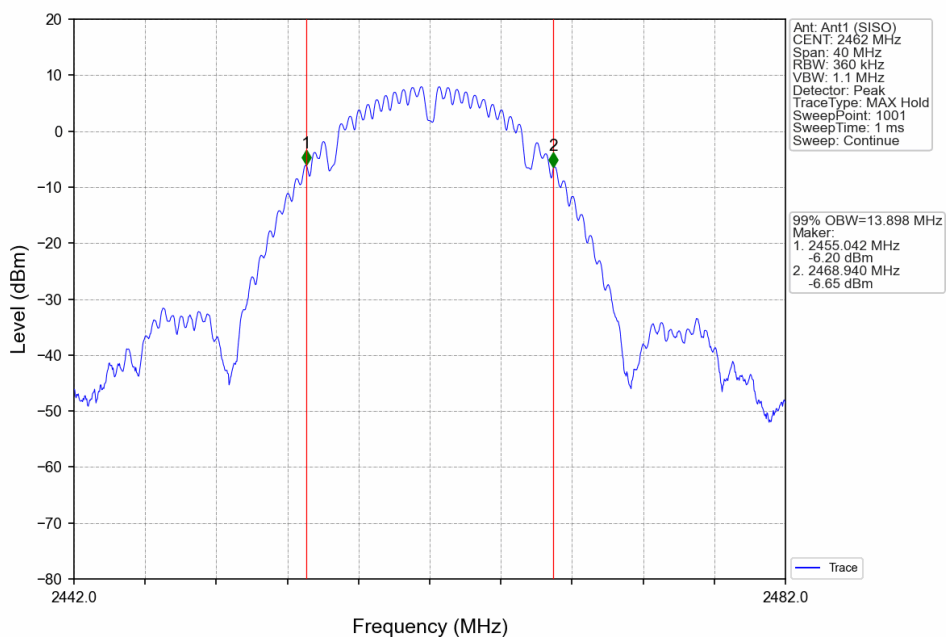
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



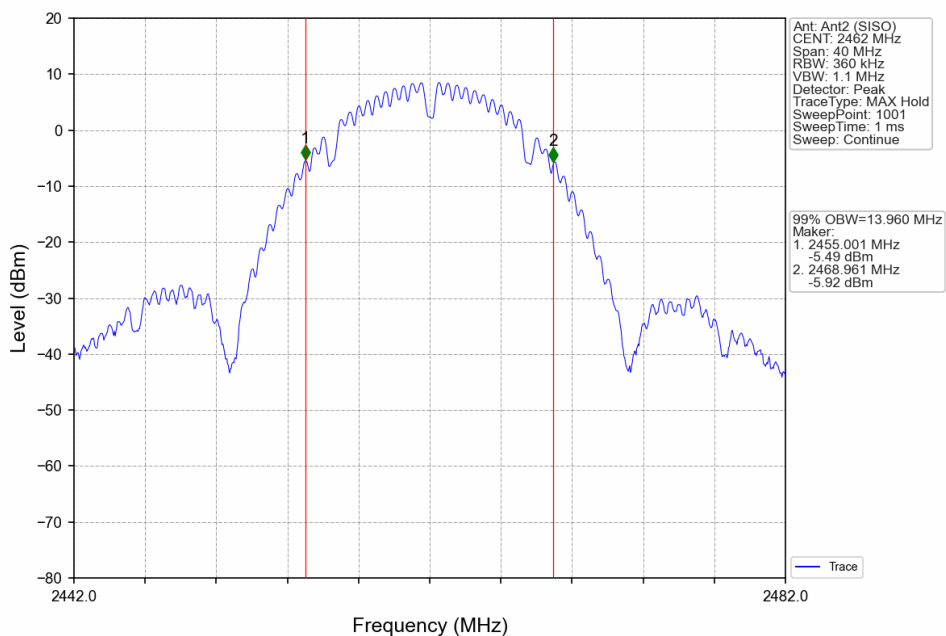
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



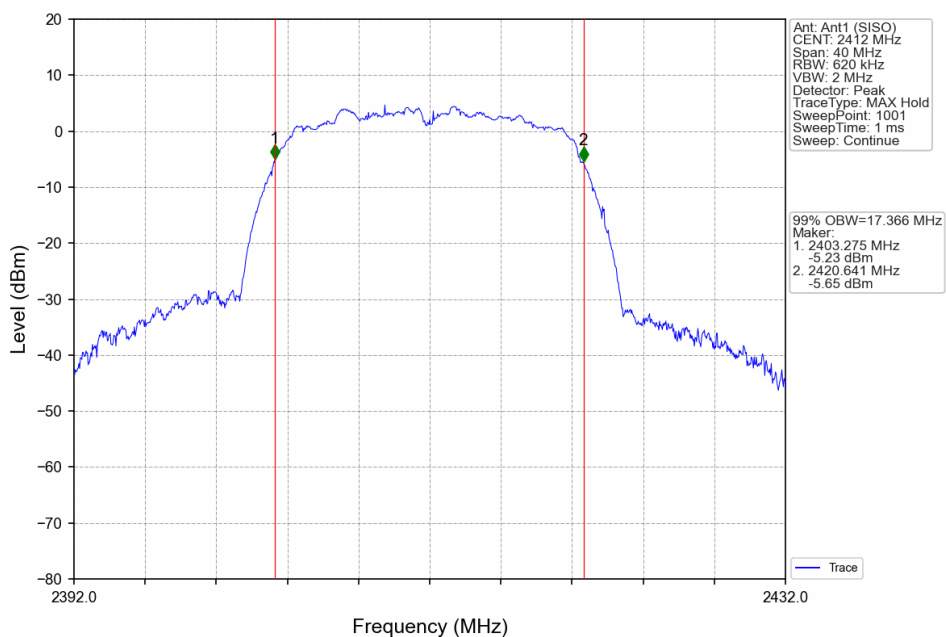
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



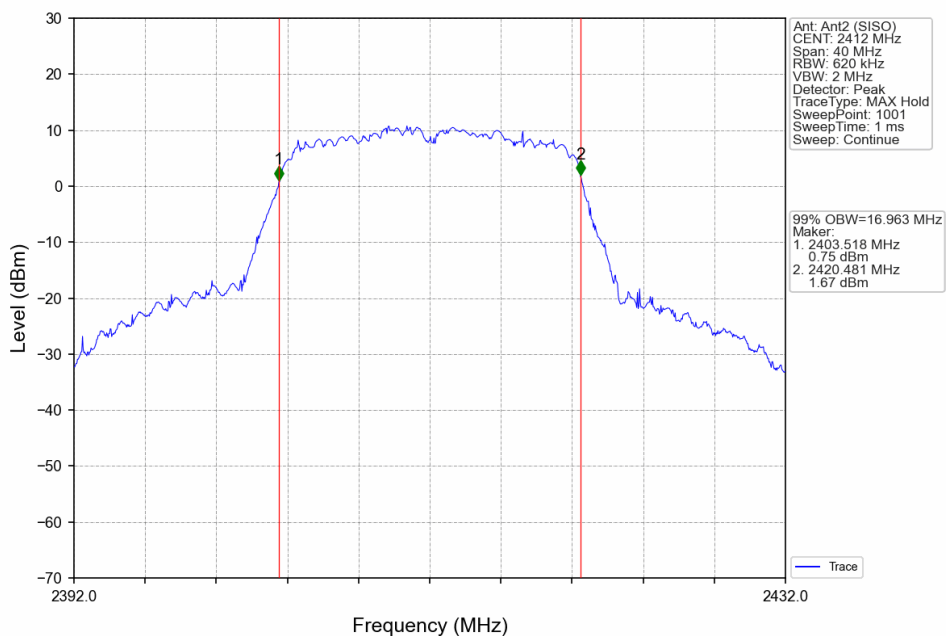
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



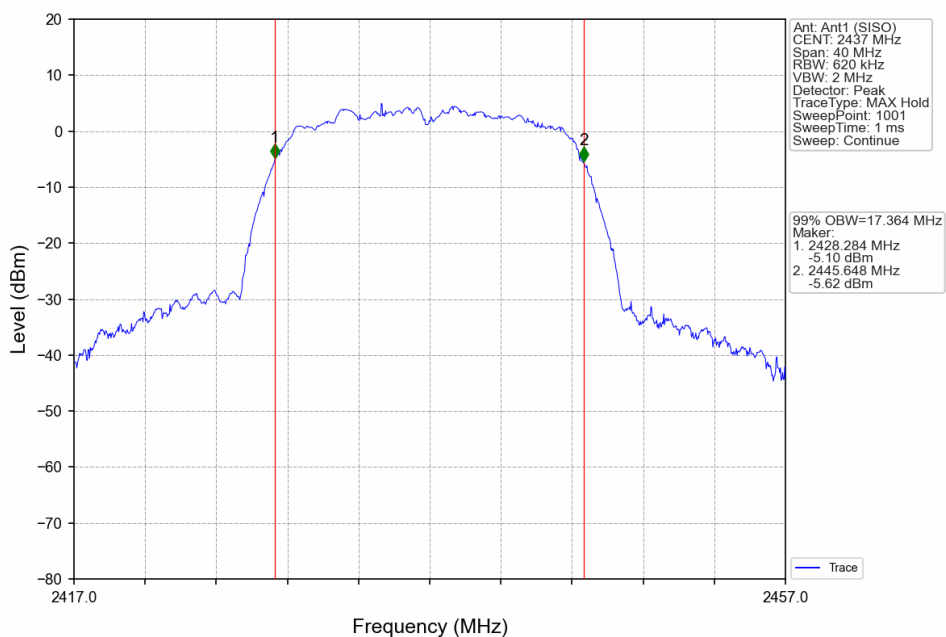
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



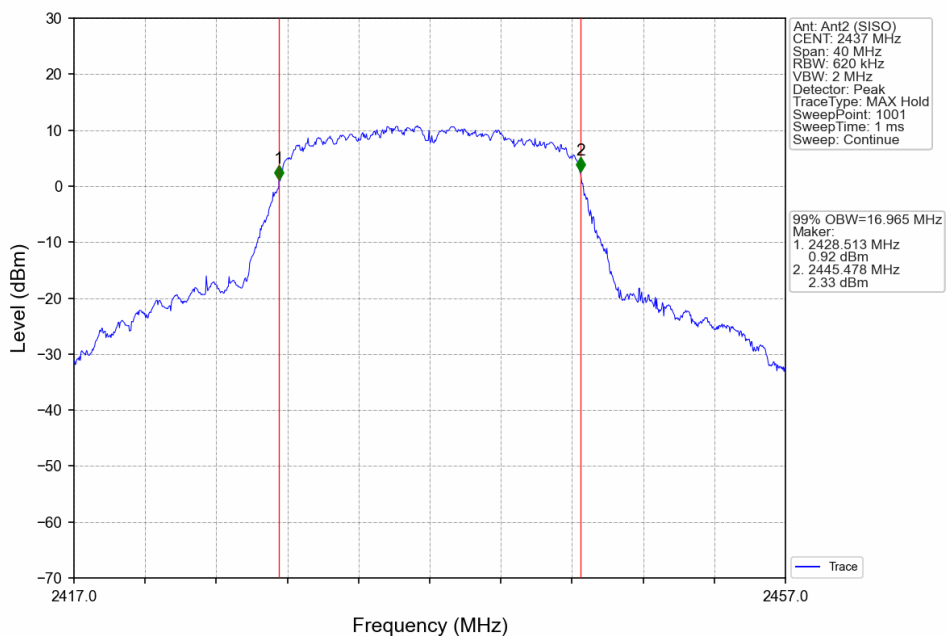
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



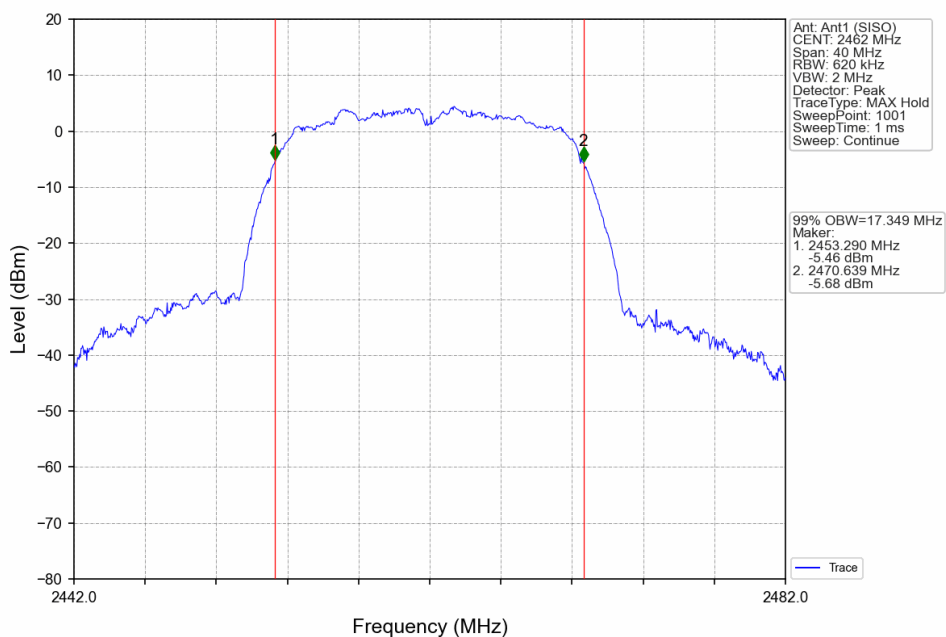
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



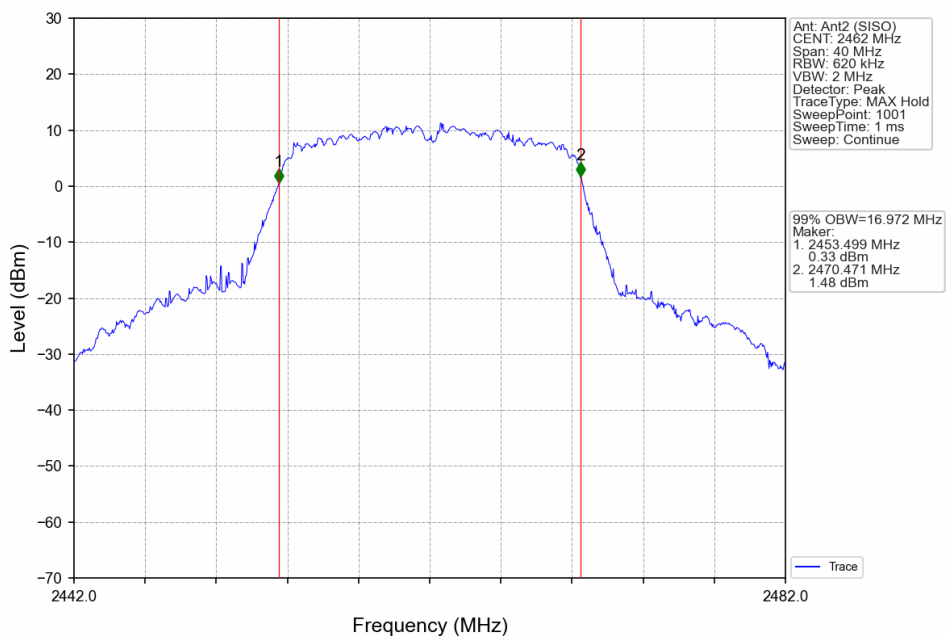
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



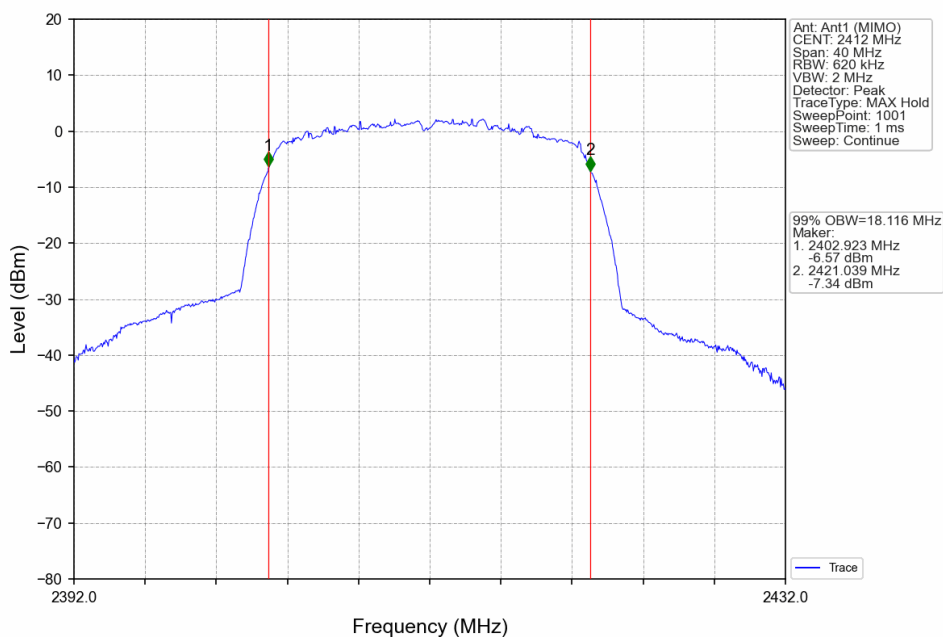
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



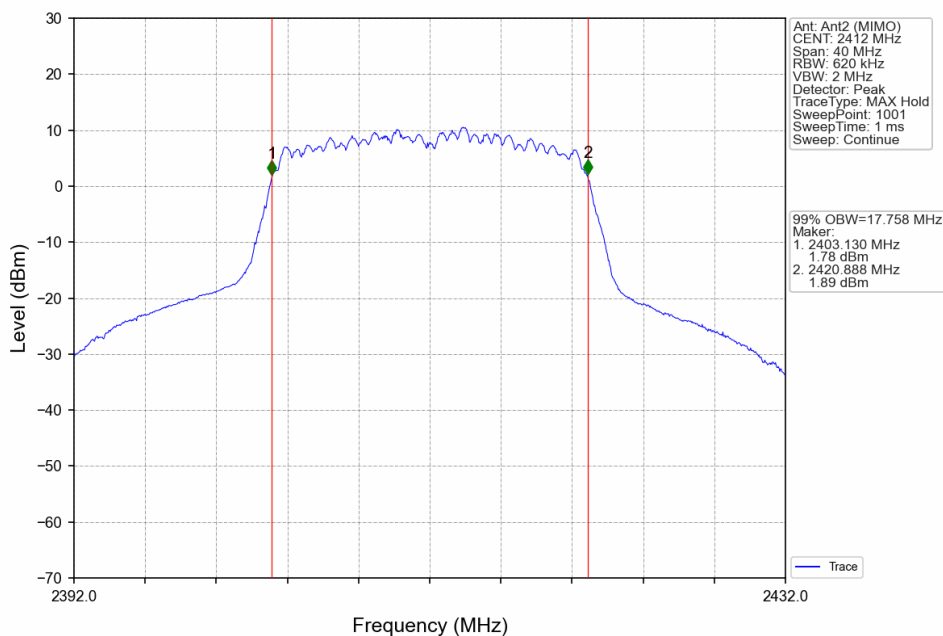
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



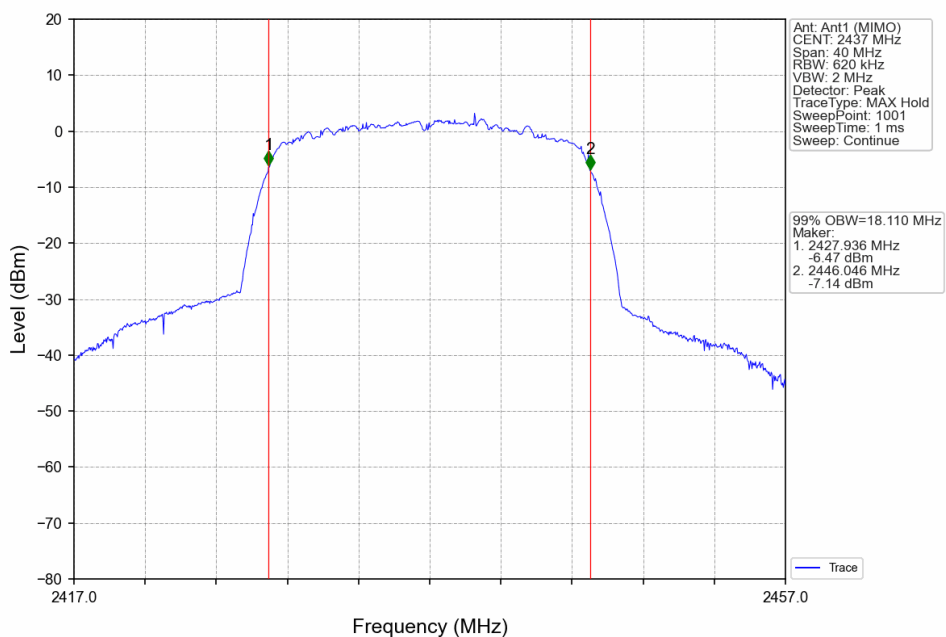
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



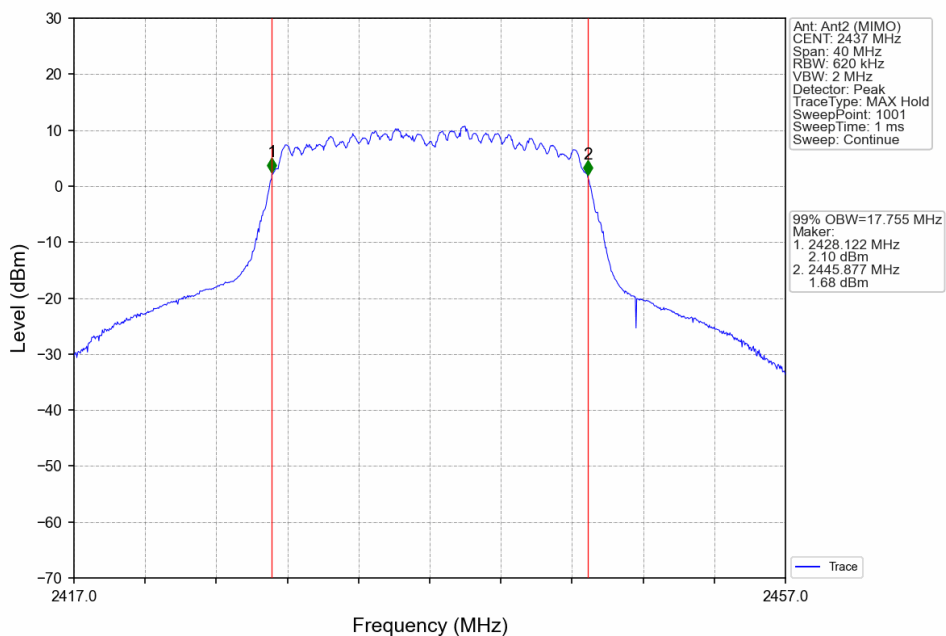
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



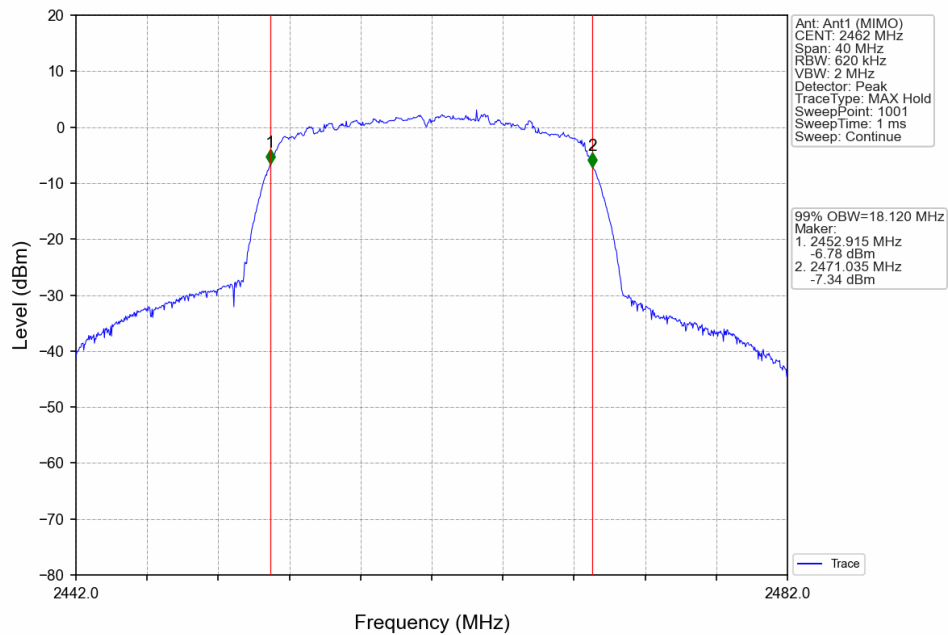
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



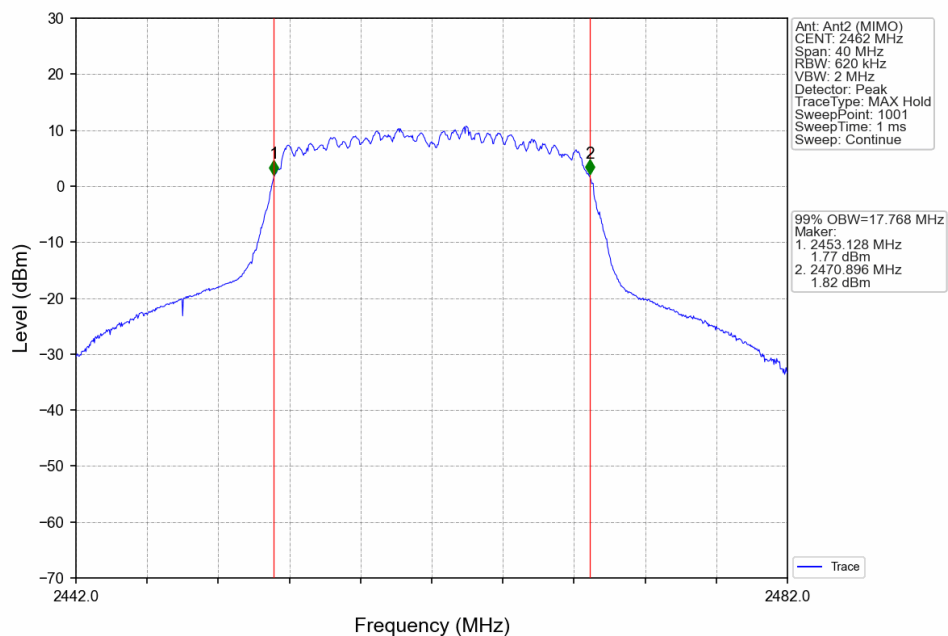
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



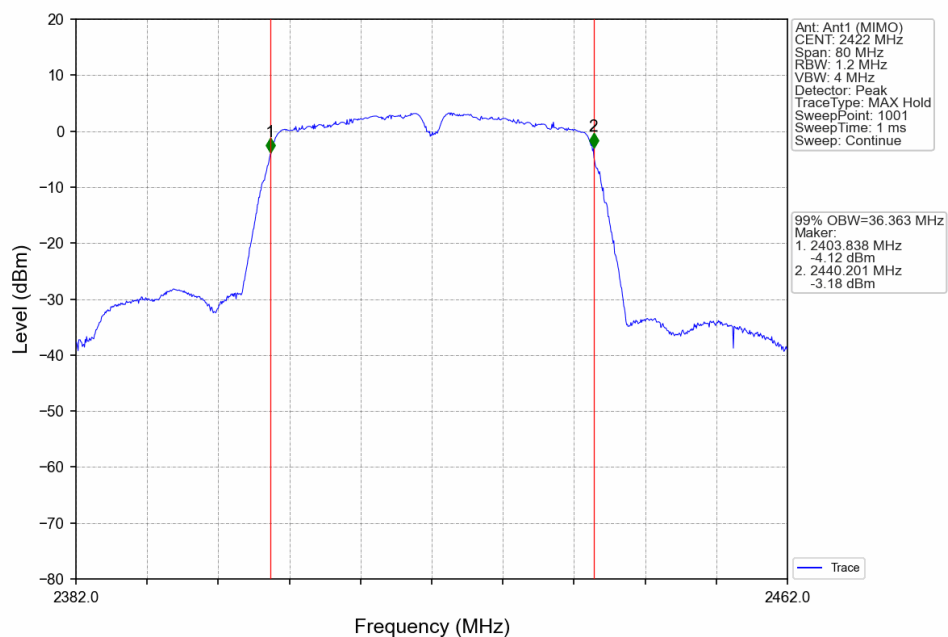
802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTN



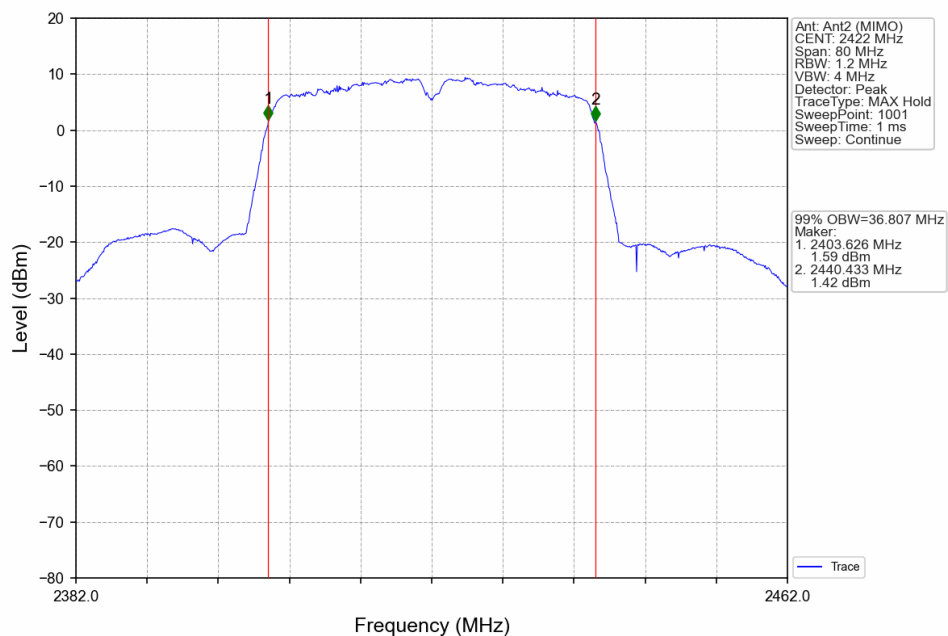
802.11n(HT20) HCH 2462MHz_Ant2 (MIMO) NTN



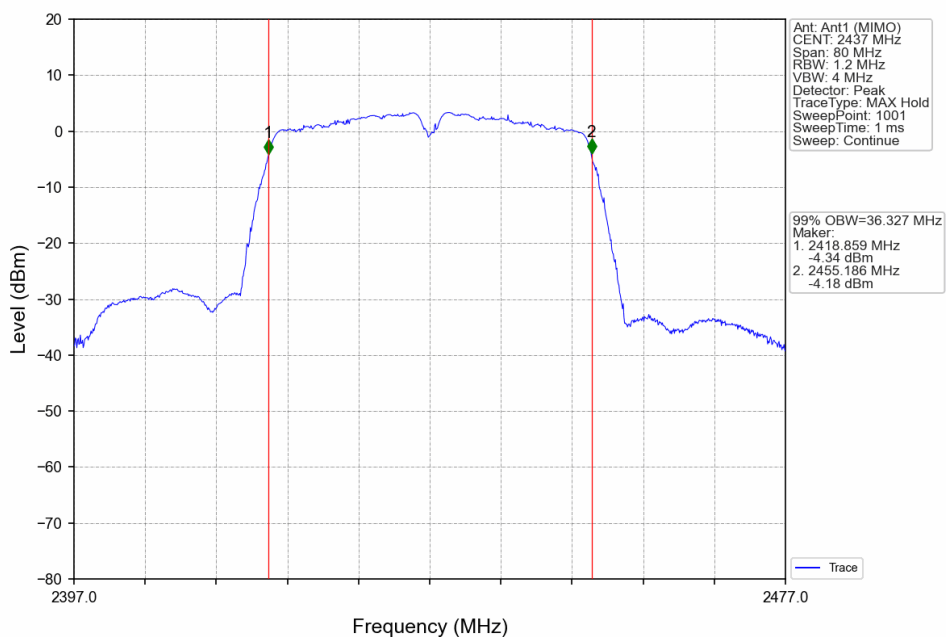
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



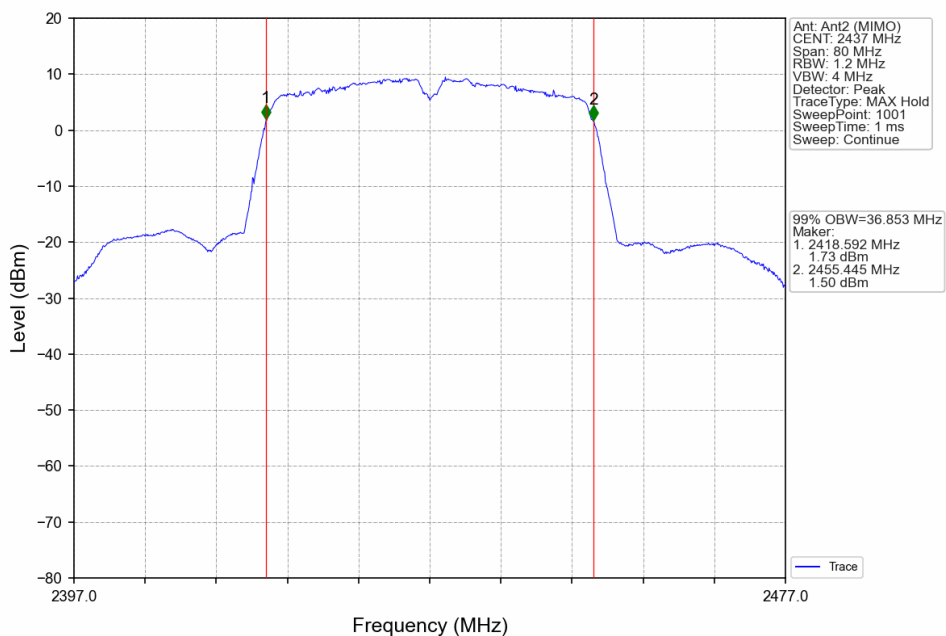
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



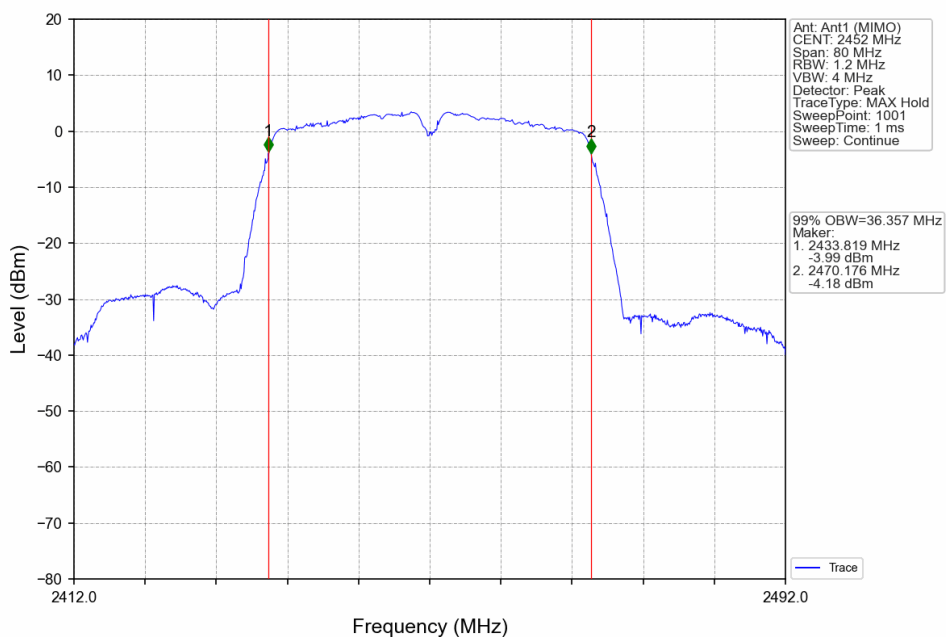
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



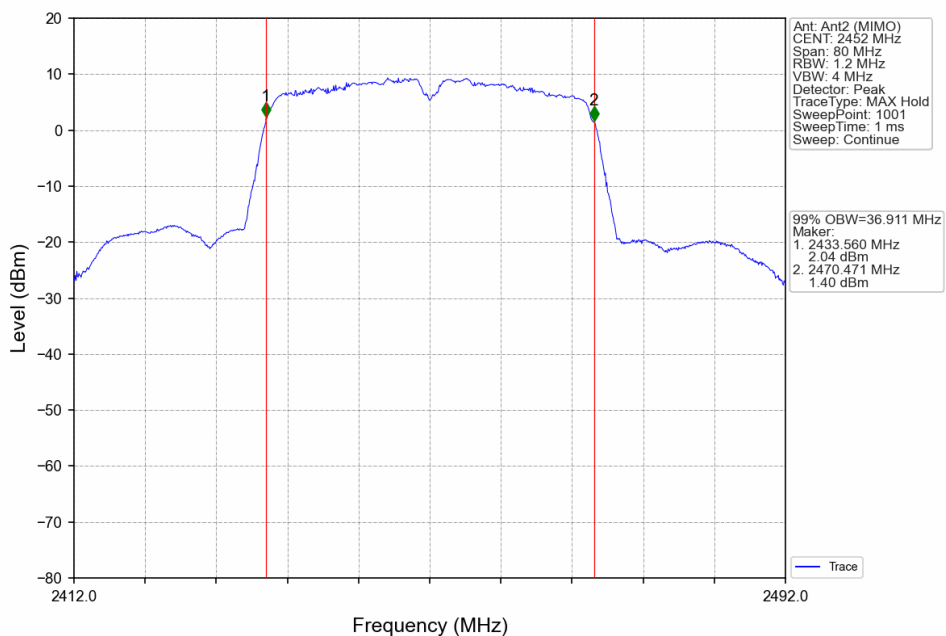
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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



802.11n(HT40) HCH 2452MHz_Ant2 (MIMO) NTN

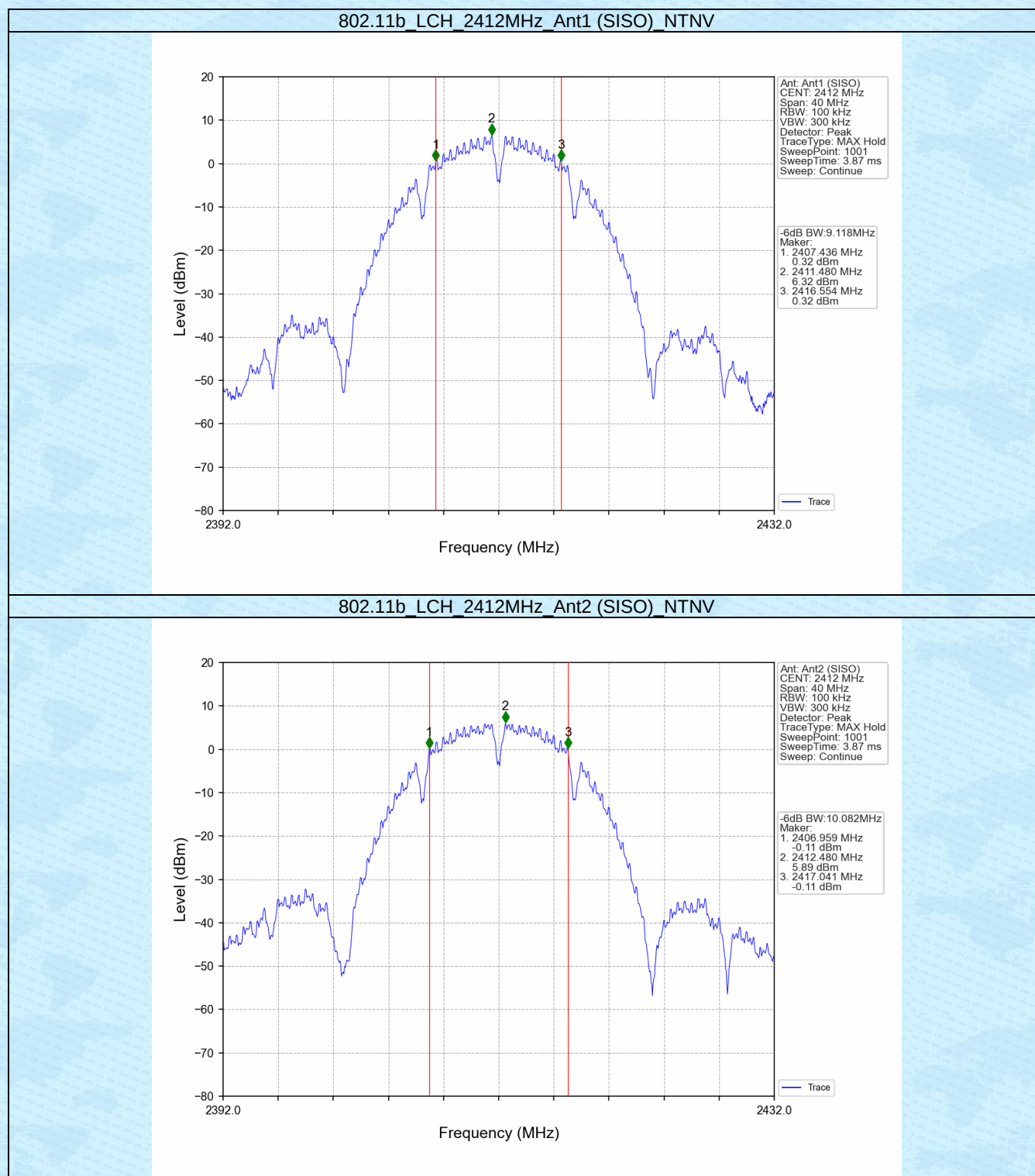


2.2 6dB BW

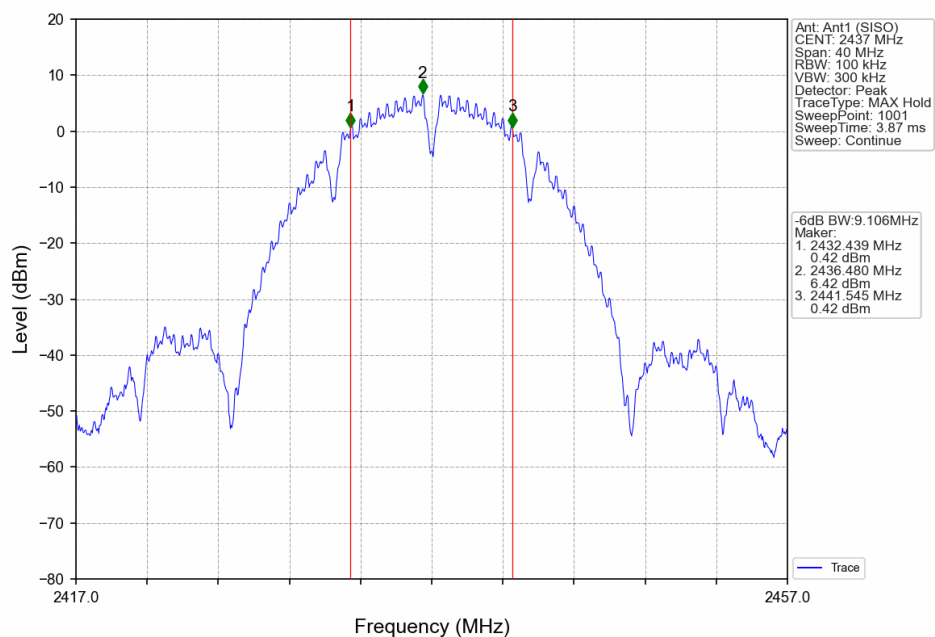
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.118	≥ 0.5	Pass
			2	10.082	≥ 0.5	Pass
		2437	1	9.106	≥ 0.5	Pass
			2	9.124	≥ 0.5	Pass
		2462	1	9.123	≥ 0.5	Pass
			2	9.130	≥ 0.5	Pass
802.11g	SISO	2412	1	15.151	≥ 0.5	Pass
			2	15.161	≥ 0.5	Pass
		2437	1	15.157	≥ 0.5	Pass
			2	15.156	≥ 0.5	Pass
		2462	1	15.157	≥ 0.5	Pass
			2	15.156	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.145	≥ 0.5	Pass
			2	16.307	≥ 0.5	Pass
		2437	1	15.155	≥ 0.5	Pass
			2	15.745	≥ 0.5	Pass
		2462	1	15.158	≥ 0.5	Pass
			2	15.742	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.173	≥ 0.5	Pass
			2	35.163	≥ 0.5	Pass
		2437	1	35.166	≥ 0.5	Pass
			2	35.159	≥ 0.5	Pass
		2452	1	35.168	≥ 0.5	Pass
			2	35.167	≥ 0.5	Pass

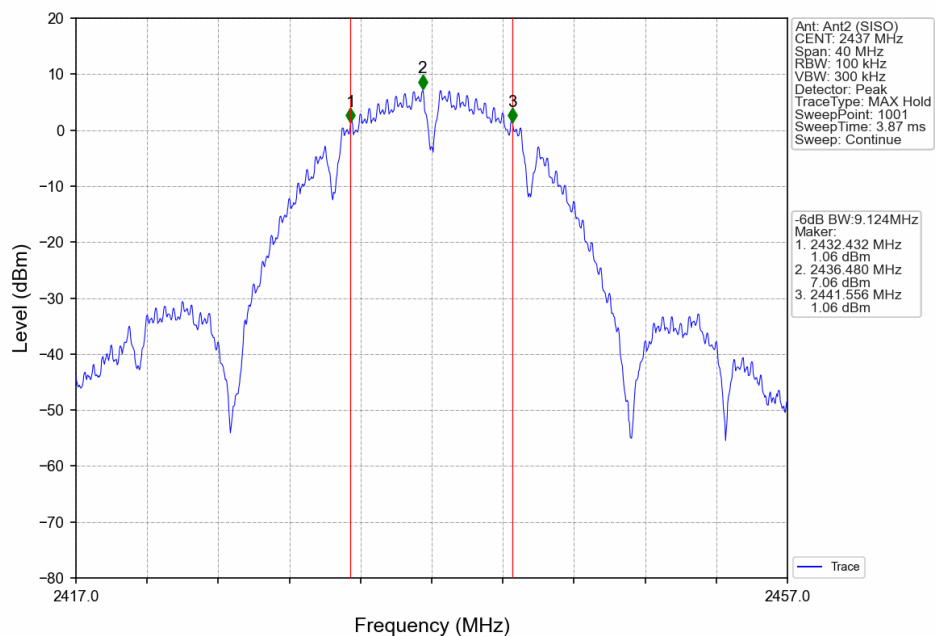
2.2.2 Test Graph



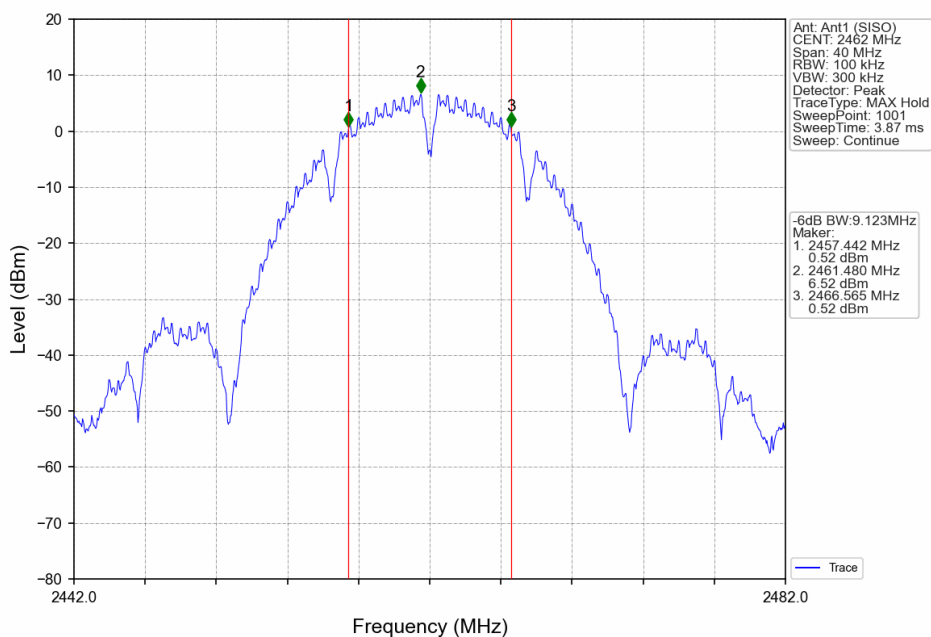
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



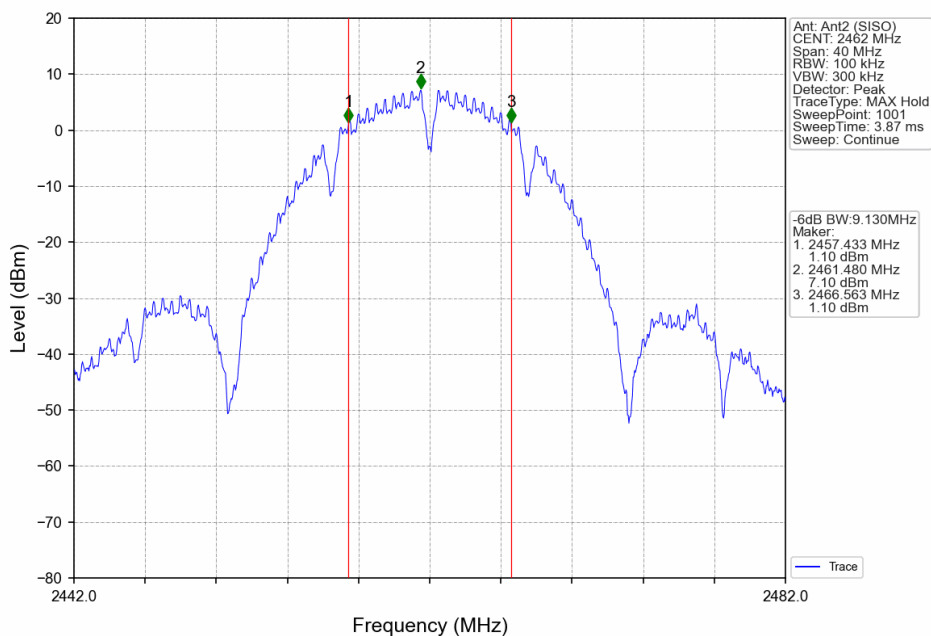
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



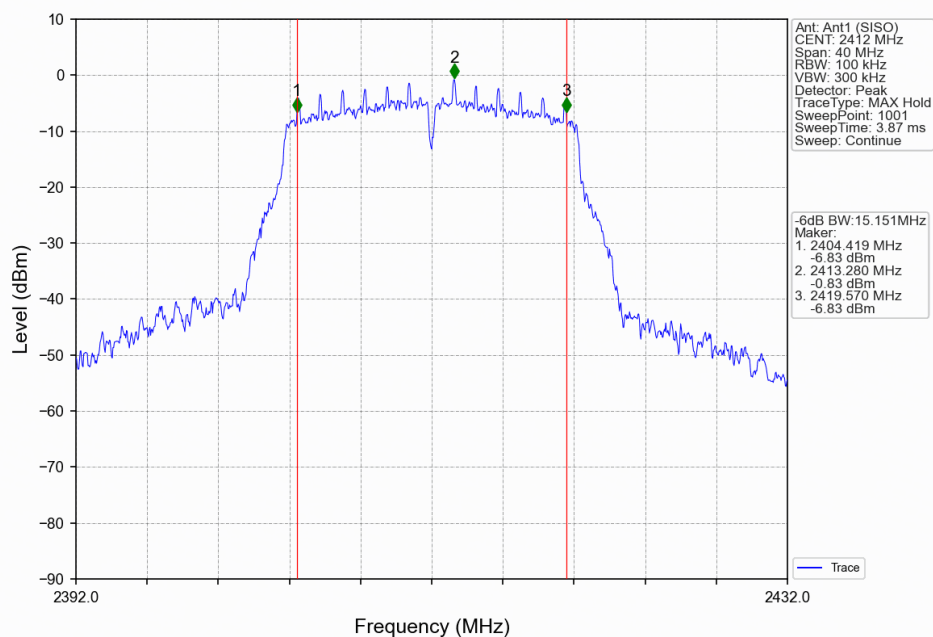
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



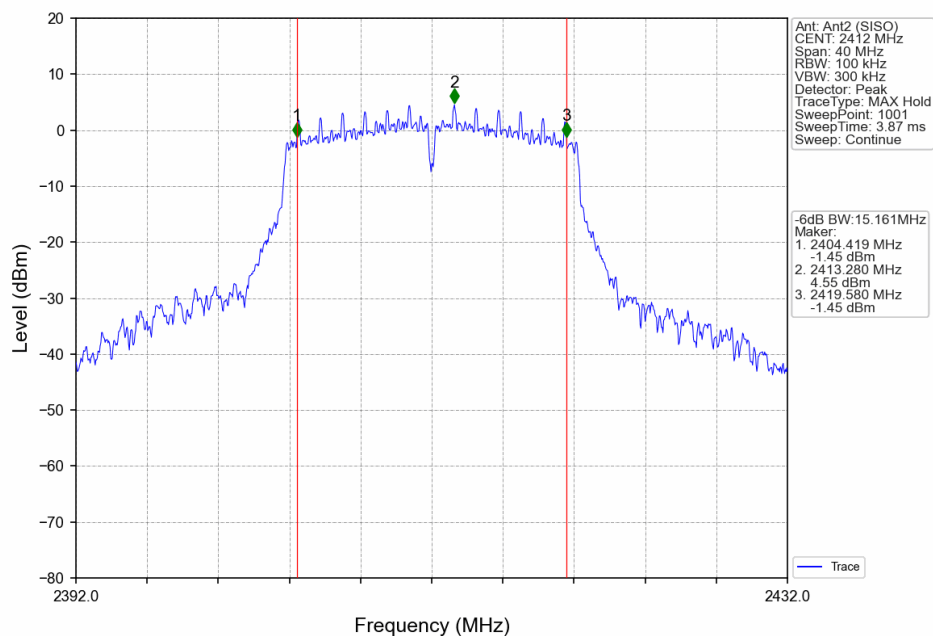
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



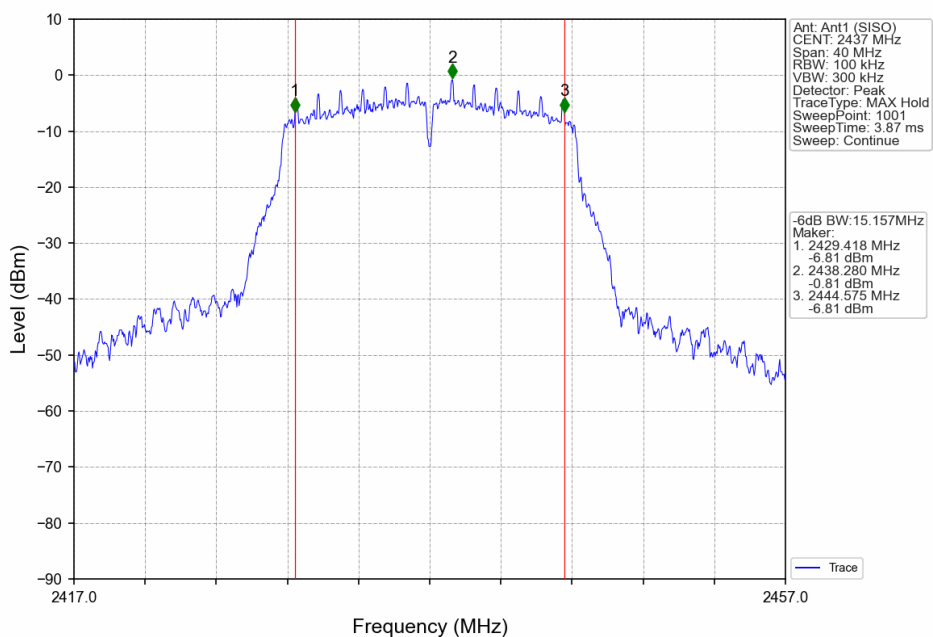
802.11g LCH 2412MHz_Ant1 (SISO) NTN



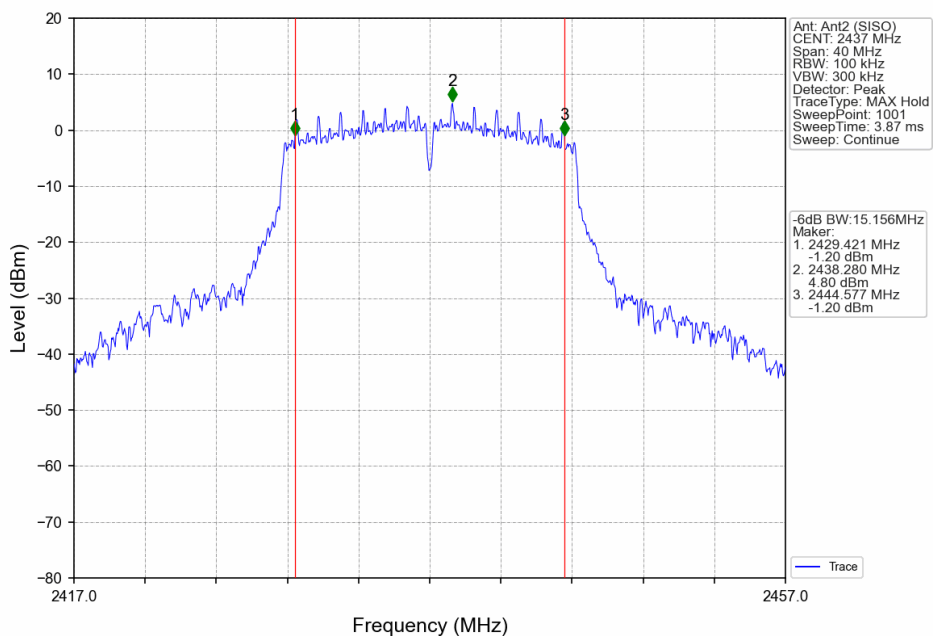
802.11g LCH 2412MHz_Ant2 (SISO) NTN



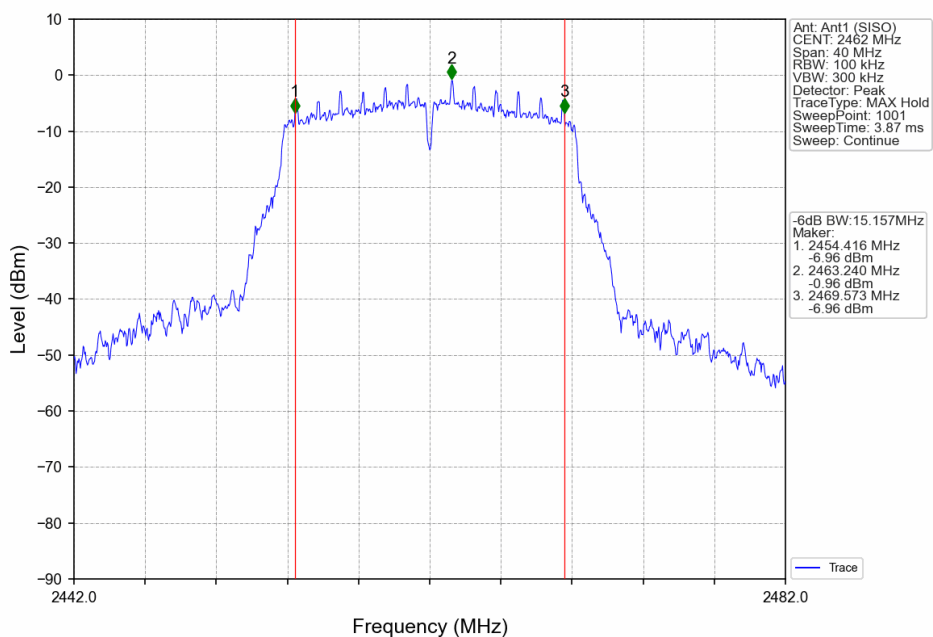
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



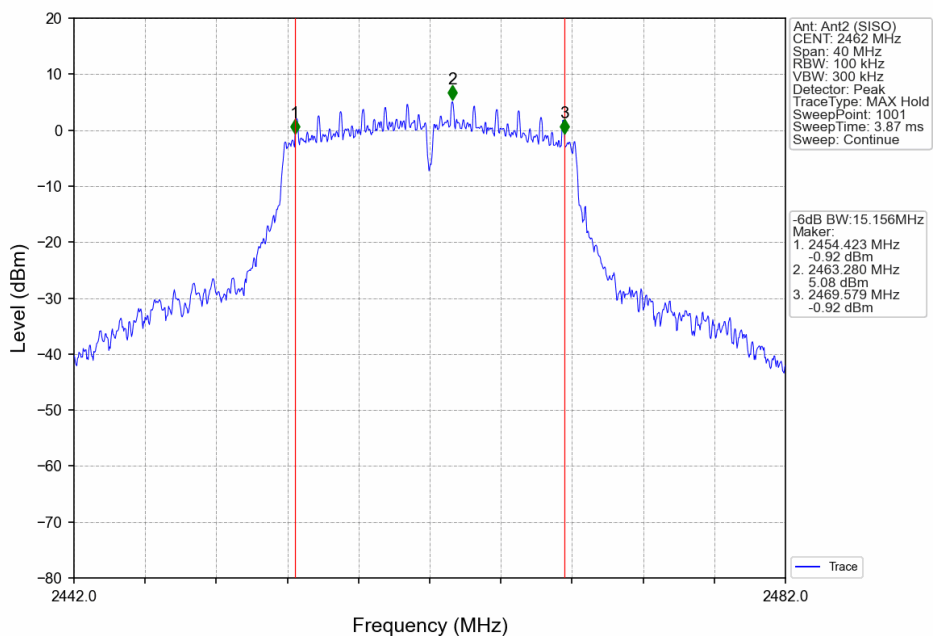
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



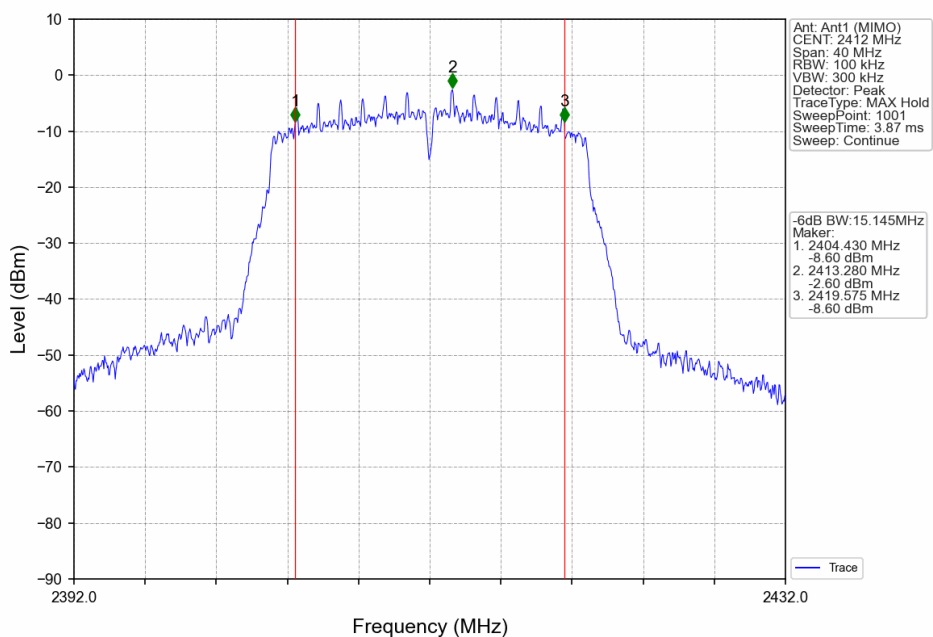
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



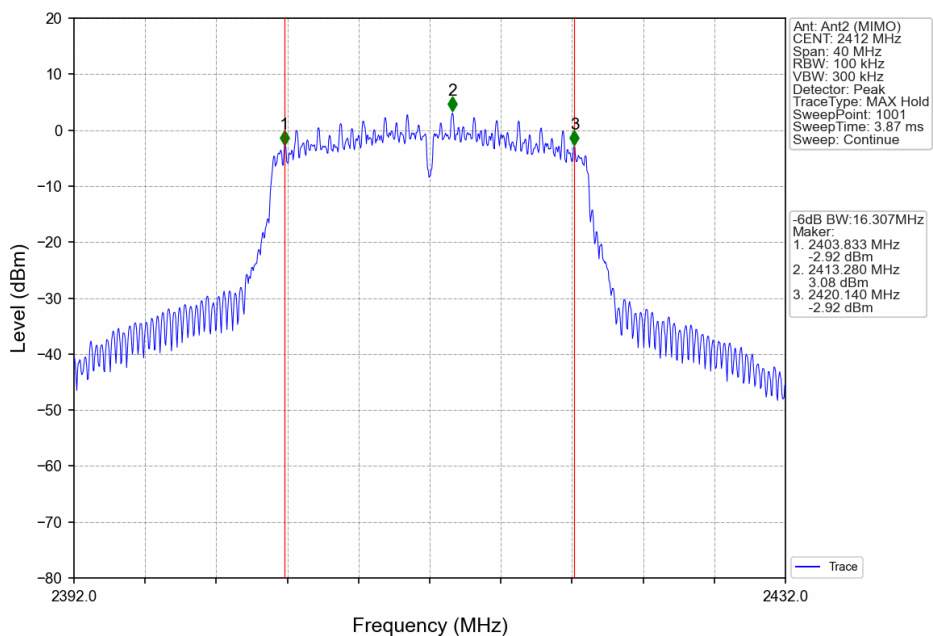
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



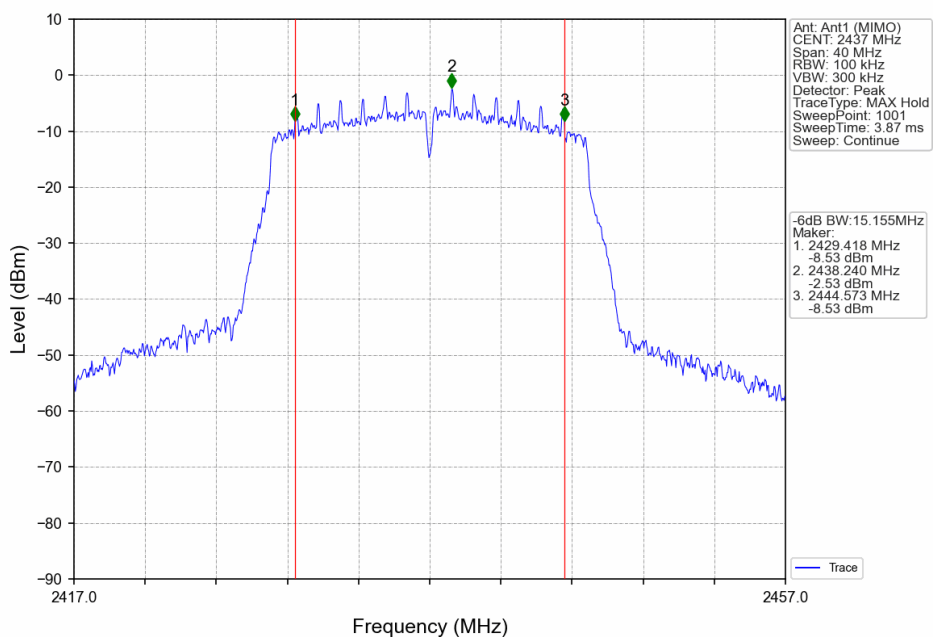
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



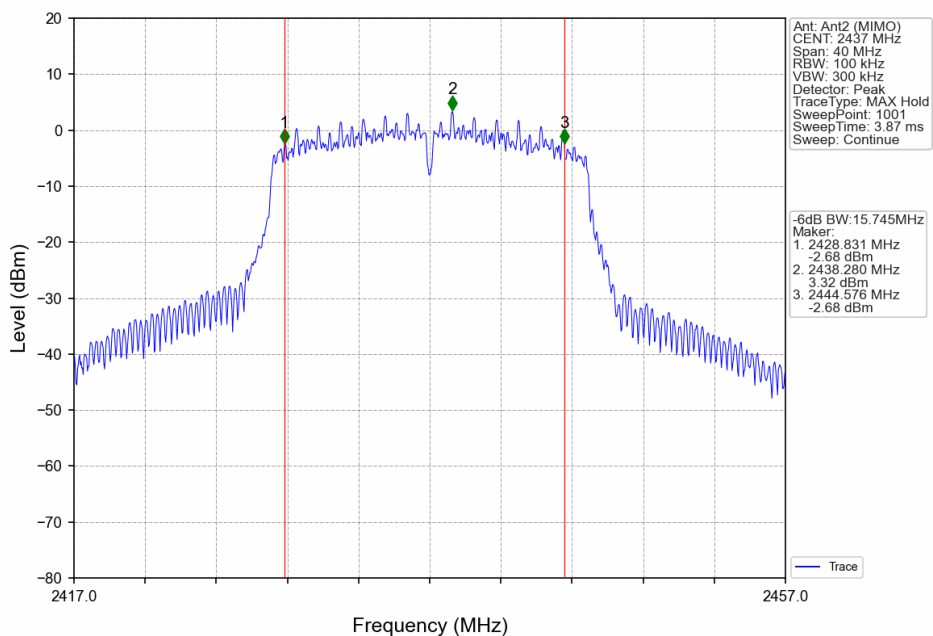
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



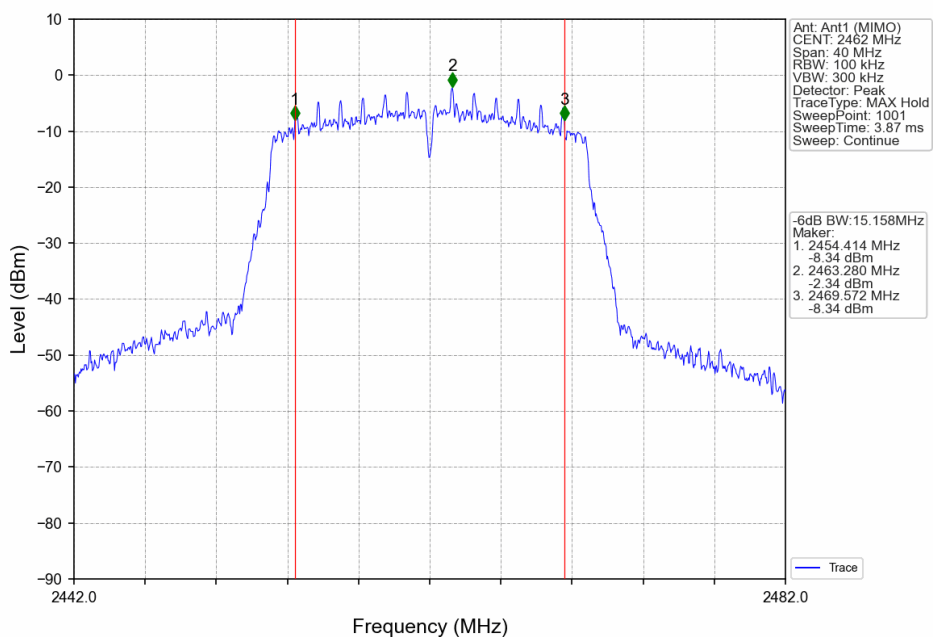
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



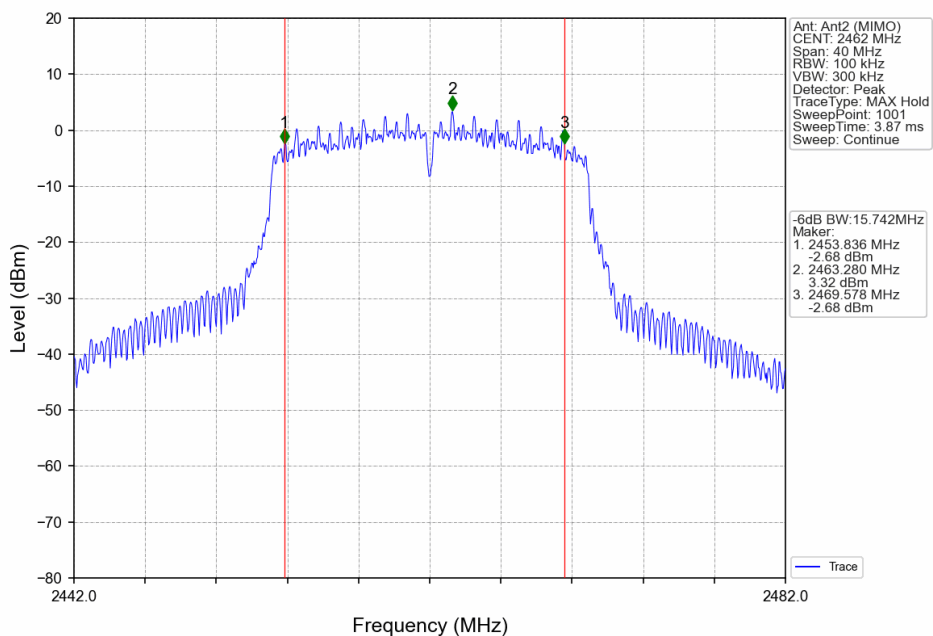
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



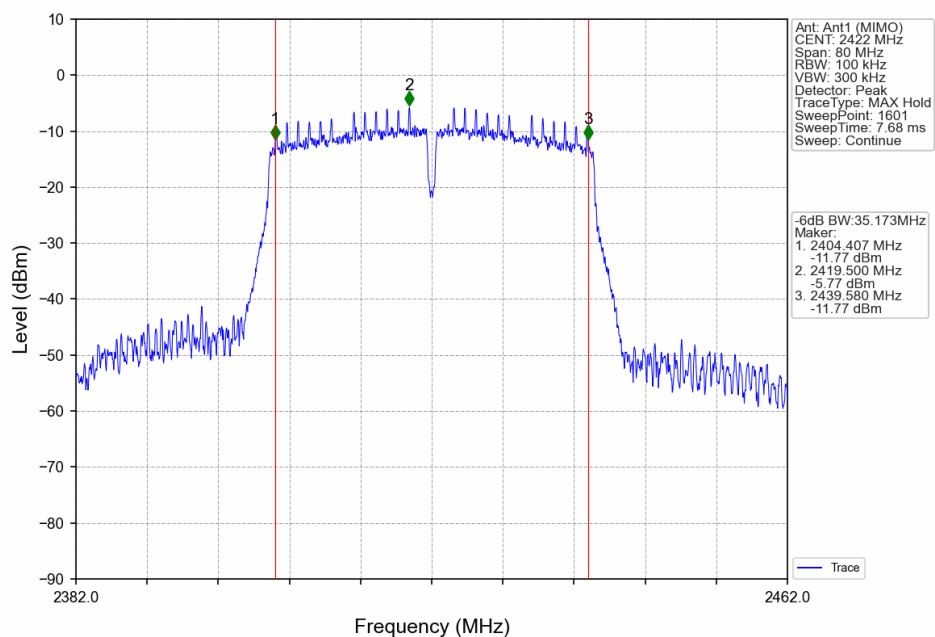
802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTN



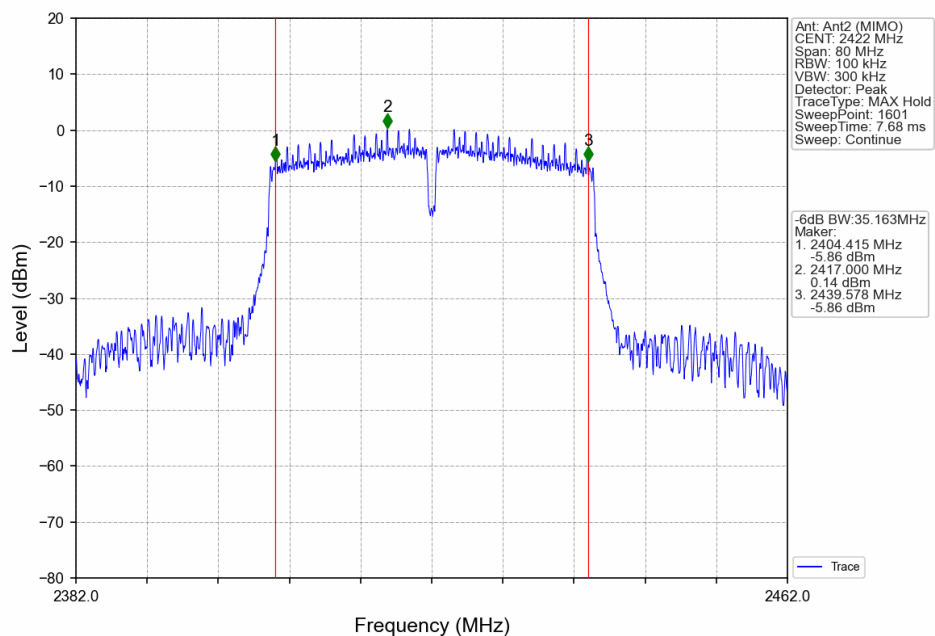
802.11n(HT20) HCH 2462MHz_Ant2 (MIMO) NTN



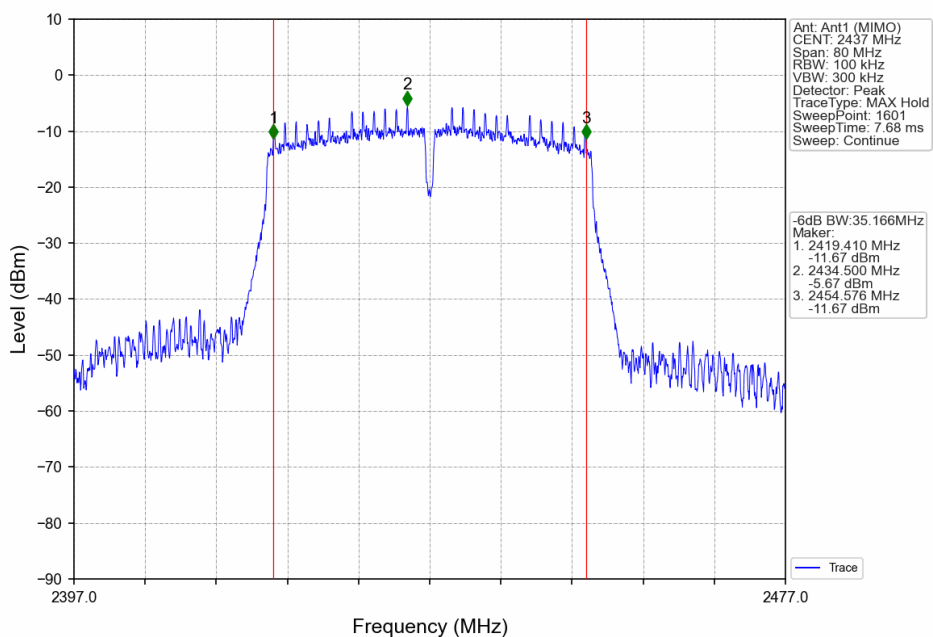
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



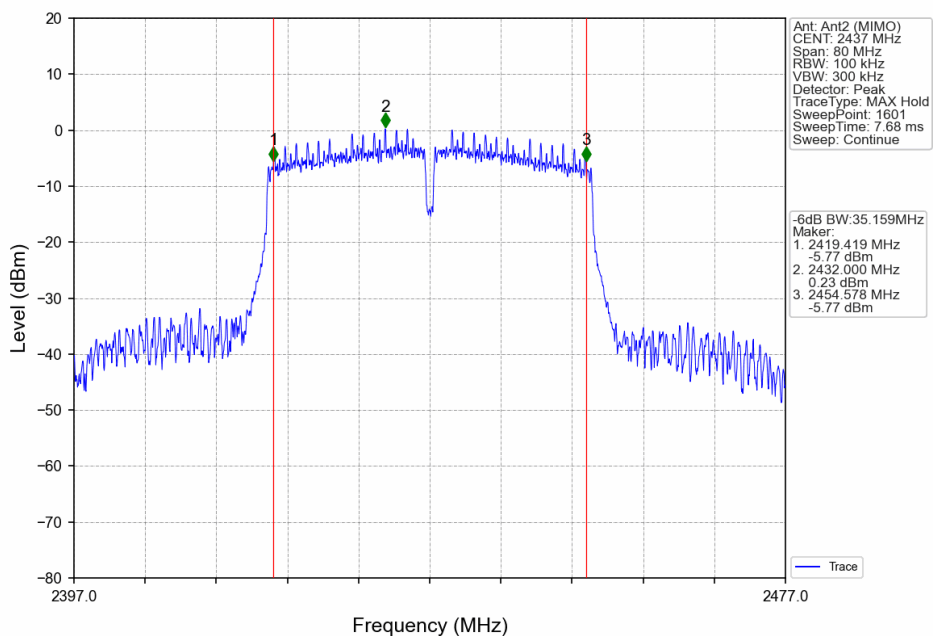
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



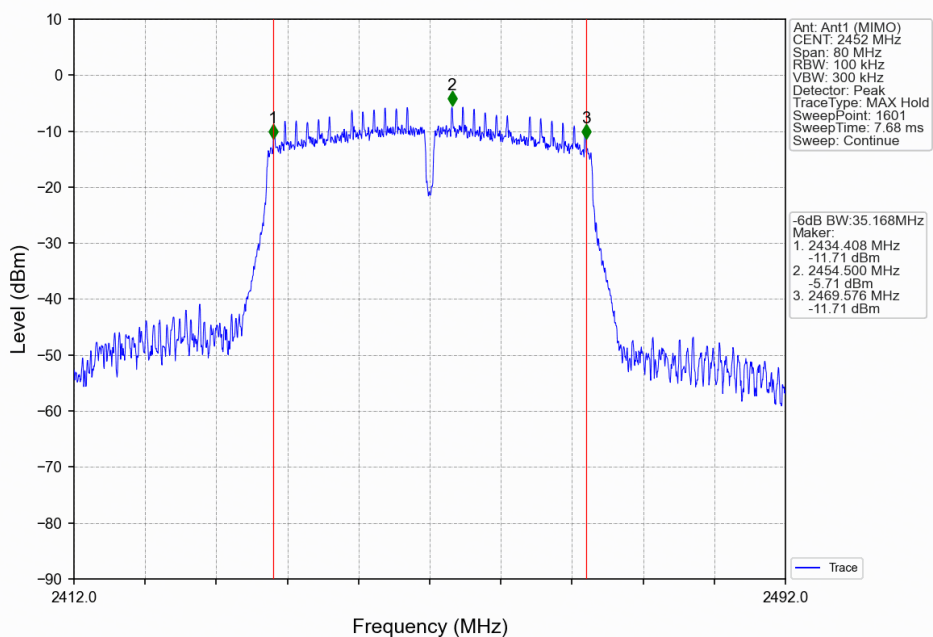
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



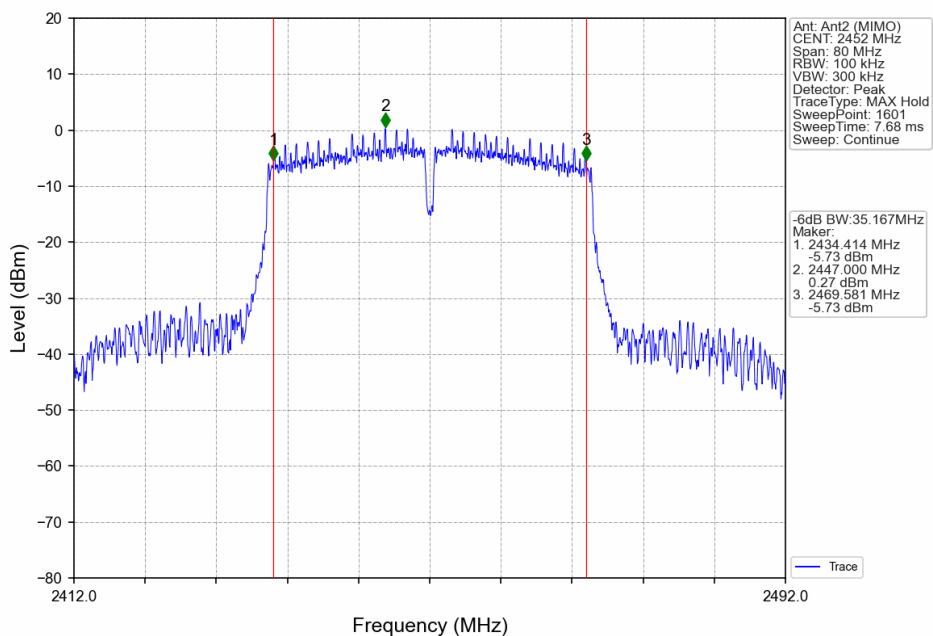
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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



802.11n(HT40) HCH 2452MHz_Ant2 (MIMO) NTN



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	18.24	18.63	/	<=30	Pass
		2437	18.35	18.66	/	<=30	Pass
		2462	18.45	18.71	/	<=30	Pass
802.11g	SISO	2412	16.79	16.12	/	<=30	Pass
		2437	16.91	17.56	/	<=30	Pass
		2462	16.78	17.68	/	<=30	Pass
802.11n (HT20)	MIMO	2412	15.01	16.20	18.66	<=30	Pass
		2437	14.99	16.48	18.81	<=30	Pass
		2462	15.16	16.39	18.83	<=30	Pass
802.11n (HT40)	MIMO	2422	15.48	16.48	19.02	<=30	Pass
		2437	15.48	16.48	19.02	<=30	Pass
		2452	15.57	16.54	19.09	<=30	Pass

Note1: Antenna Gain: Ant1: 3.48dBi; Ant2: 3.05dBi;
Note2: Directional Gain: $10 \times \log[(10^{3.48/20} + 10^{3.05/20})^2/2] = 6.28 \text{ dBi}$

4. Maximum Power Spectral Density

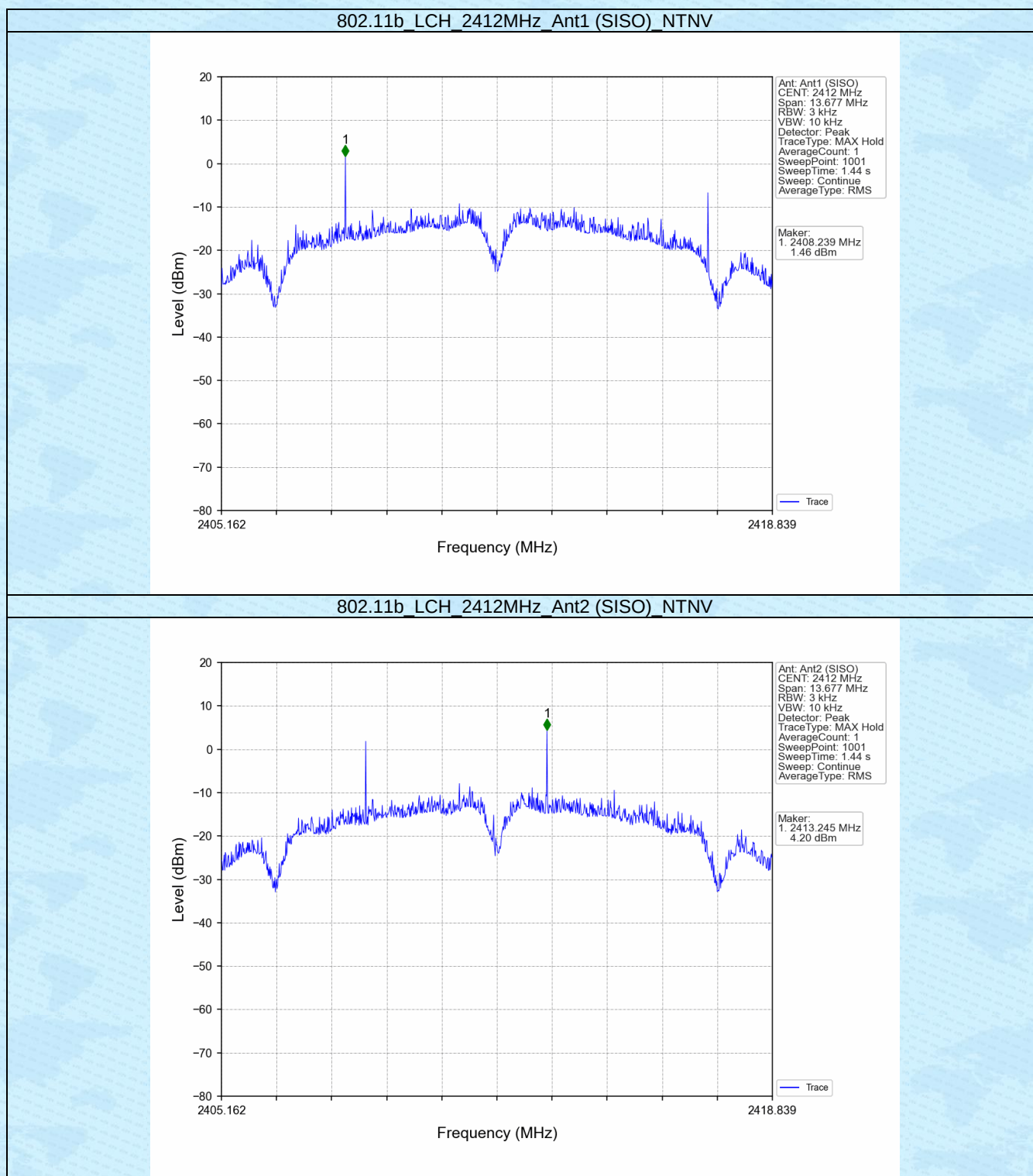
4.1 PSD

4.1.1 Test Result

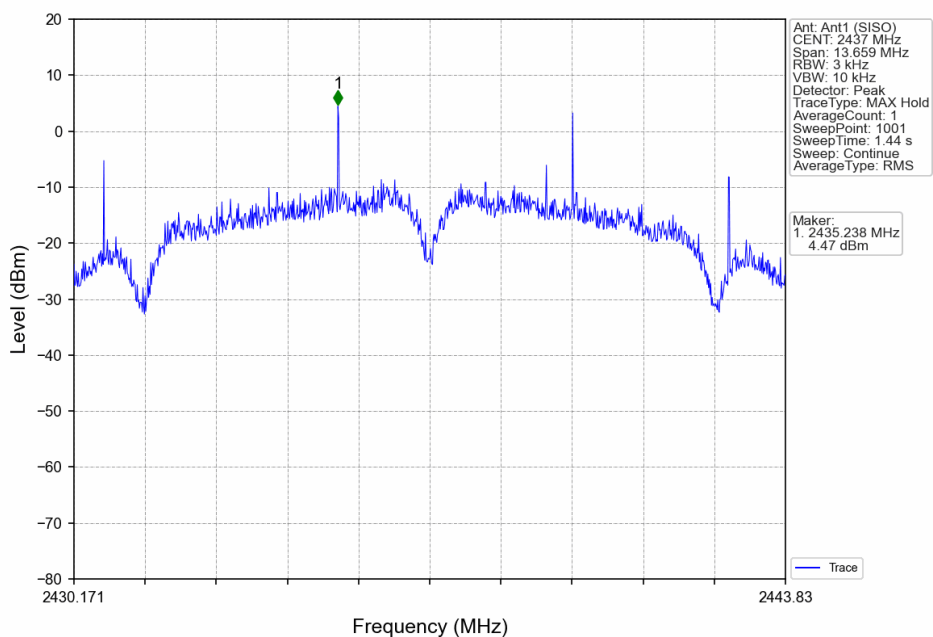
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	1.46	4.20	/	<=8	Pass
		2437	4.47	5.81	/	<=8	Pass
		2462	5.61	-9.02	/	<=8	Pass
802.11g	SISO	2412	-17.56	-18.18	/	<=8	Pass
		2437	-17.39	-16.59	/	<=8	Pass
		2462	-17.55	-15.75	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-18.73	-16.37	-15.11	<=8	Pass
		2437	-18.90	-17.74	-15.77	<=8	Pass
		2462	-17.90	-17.72	-15.38	<=8	Pass
802.11n (HT40)	MIMO	2422	-21.37	-21.54	-18.45	<=8	Pass
		2437	-21.11	-20.34	-18.60	<=8	Pass
		2452	-21.10	-20.94	-18.28	<=8	Pass

Note1: Antenna Gain: Ant1: 3.48dBi; Ant2: 3.05dBi;
Note2: Directional Gain: $10 \times \log[(10^{3.48/20} + 10^{3.05/20})^2/2] = 6.28 \text{ dBi}$

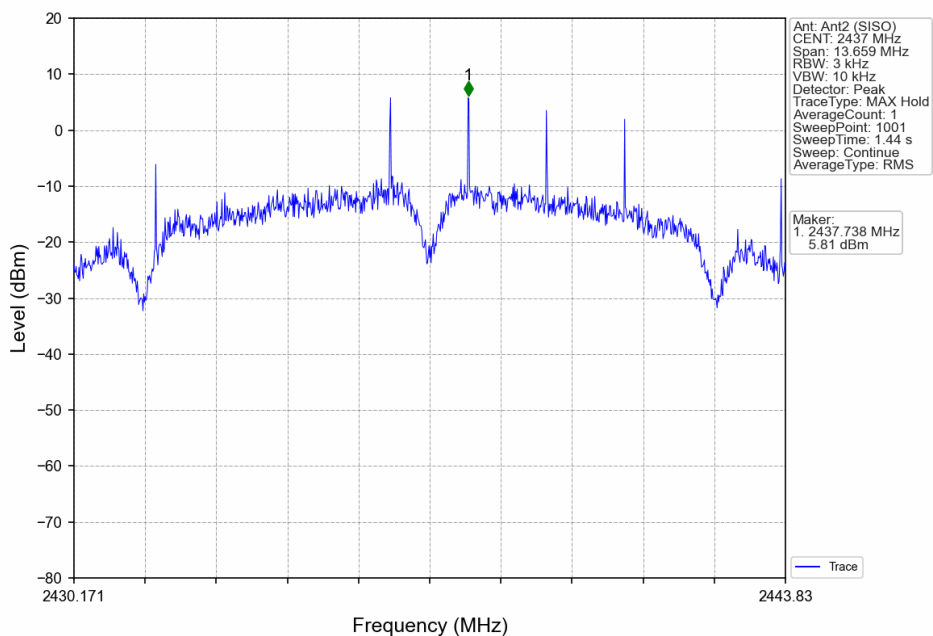
4.1.2 Test Graph



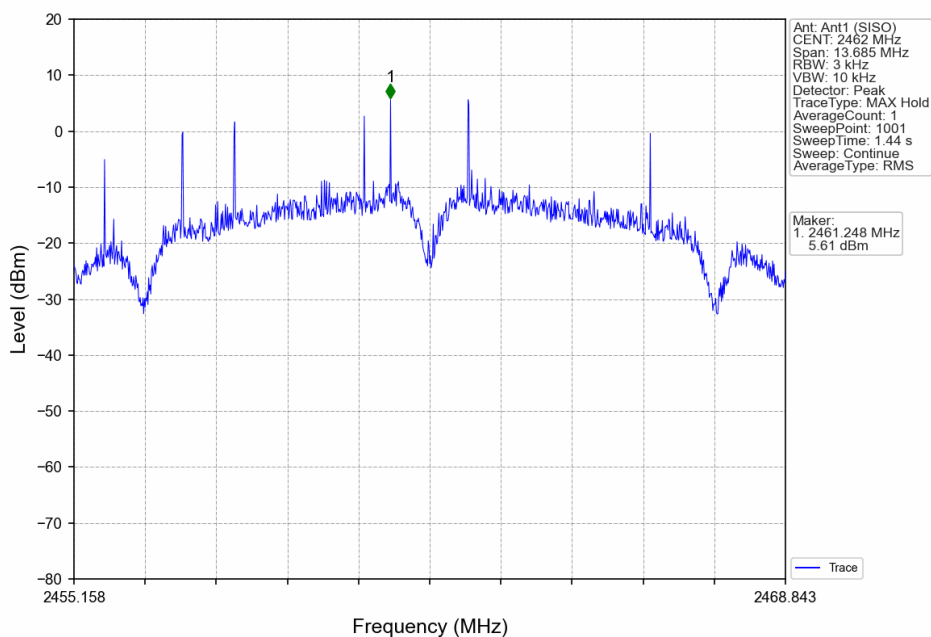
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



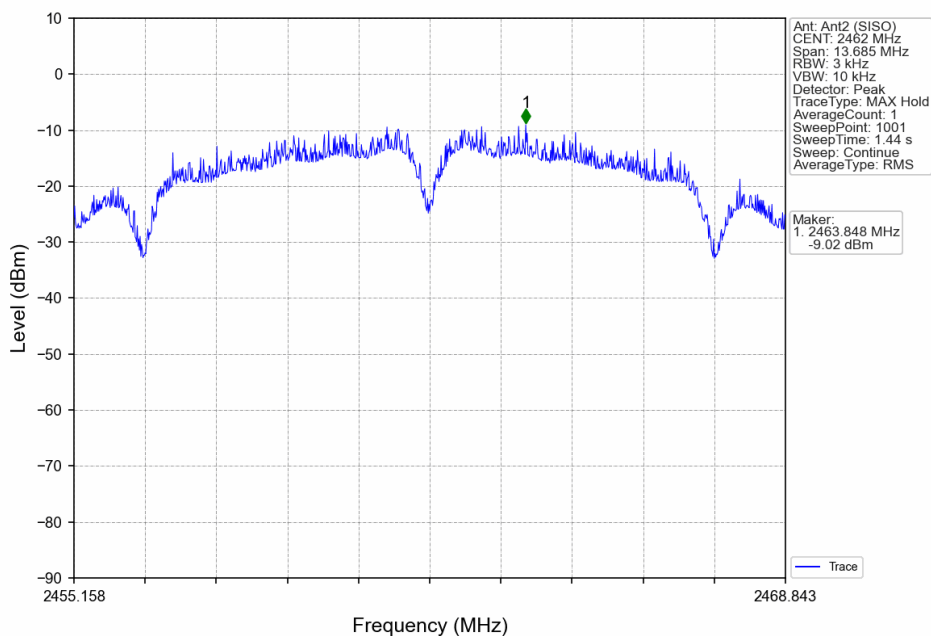
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



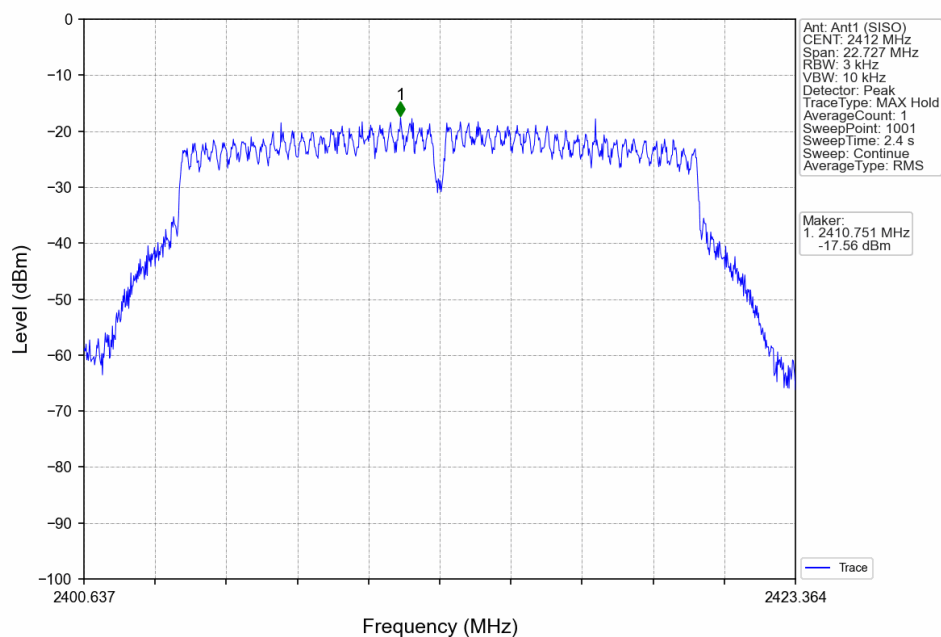
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



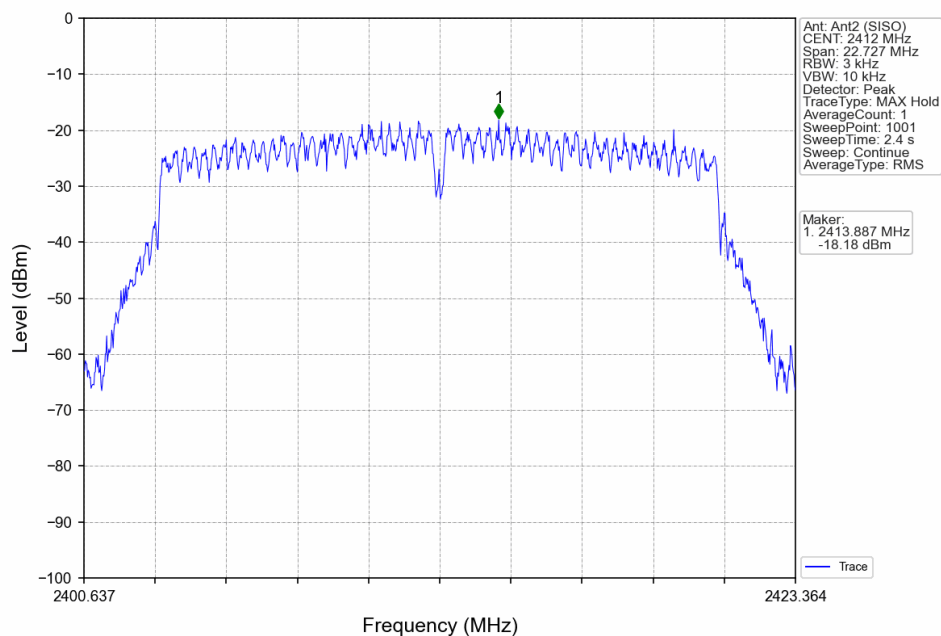
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



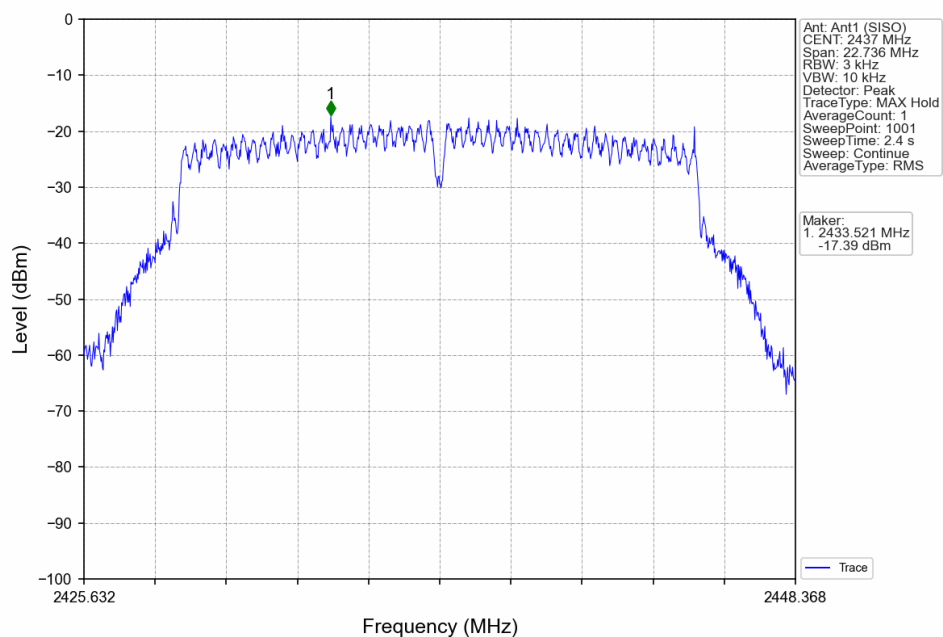
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



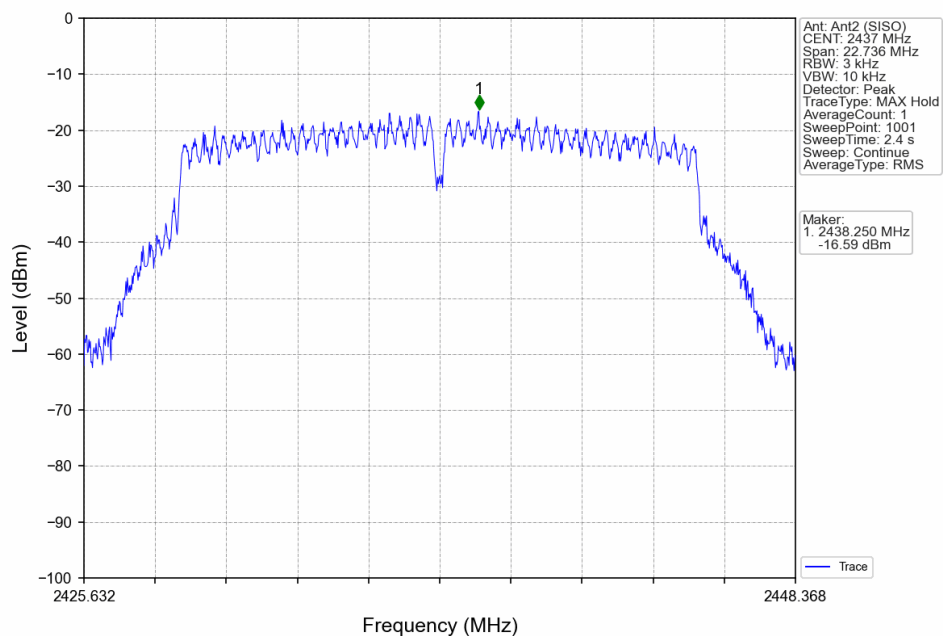
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



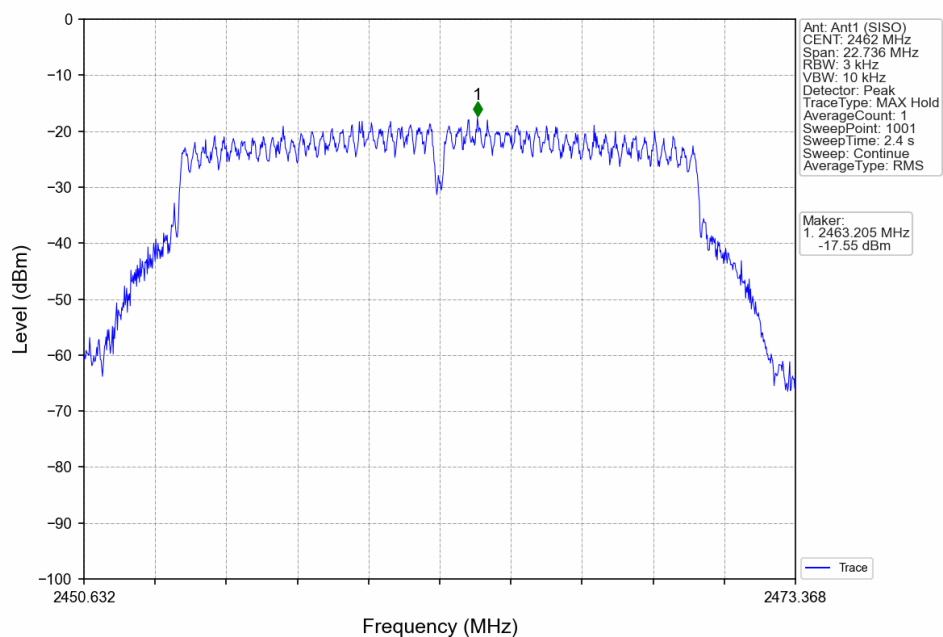
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



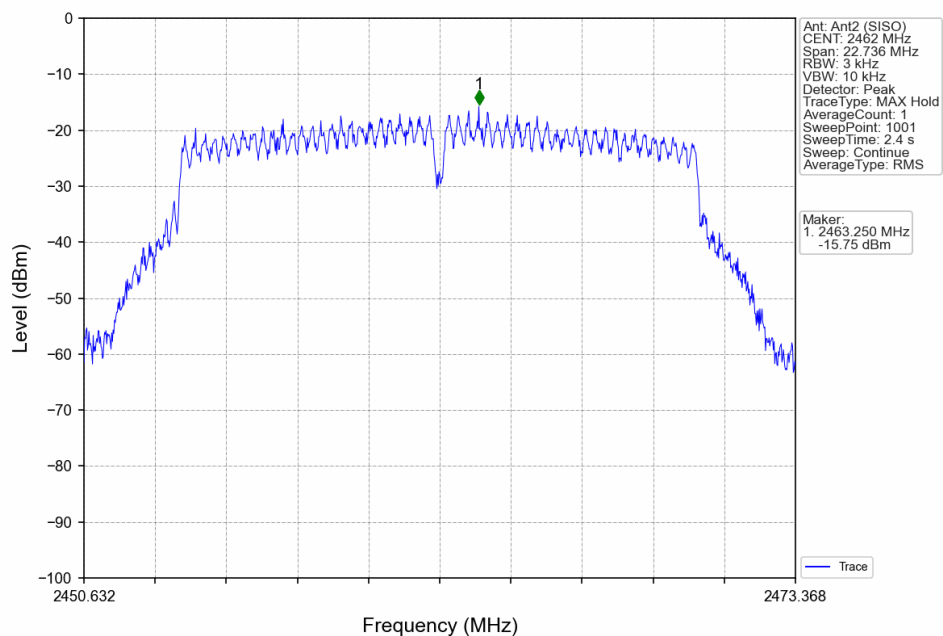
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



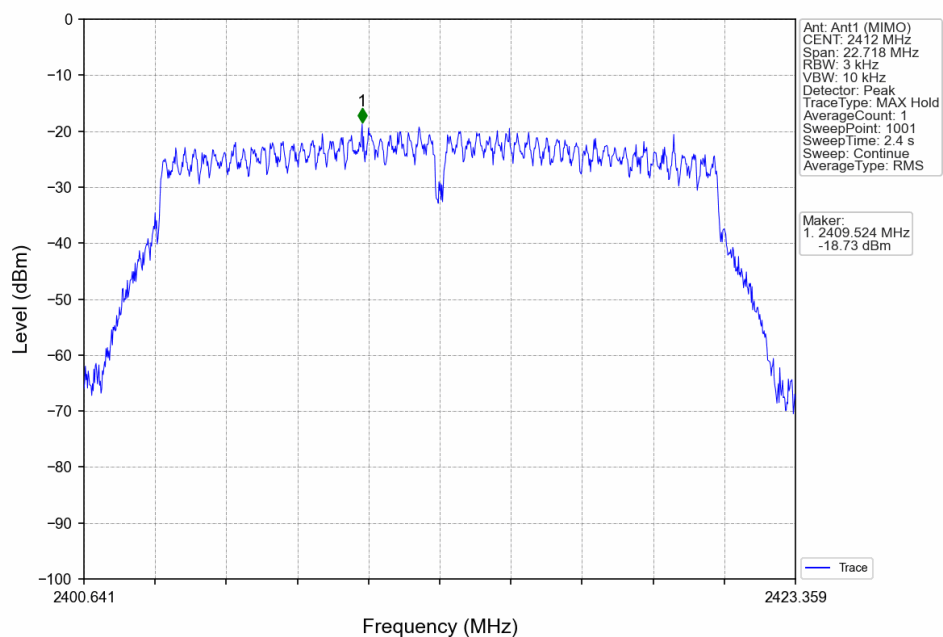
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



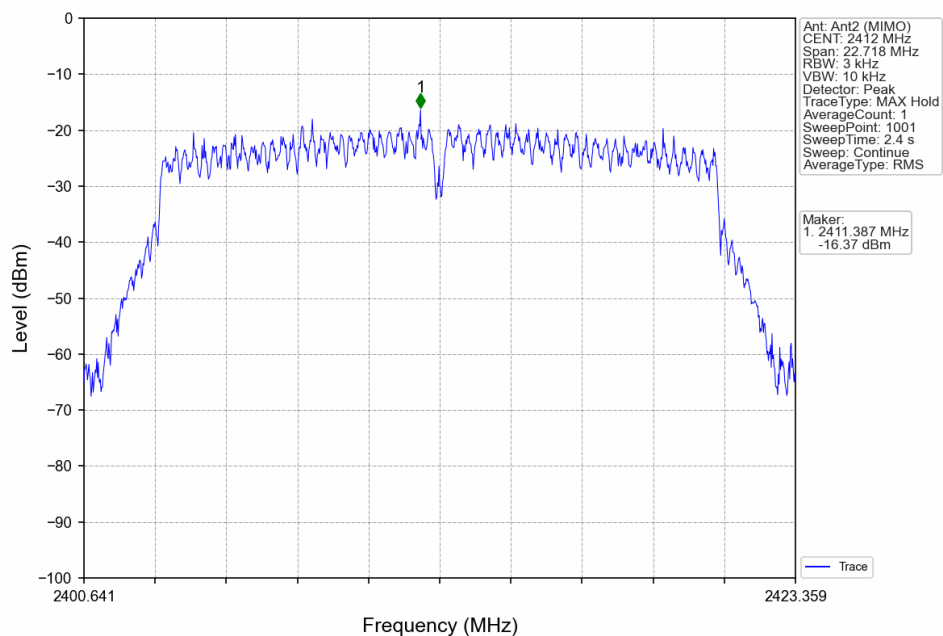
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



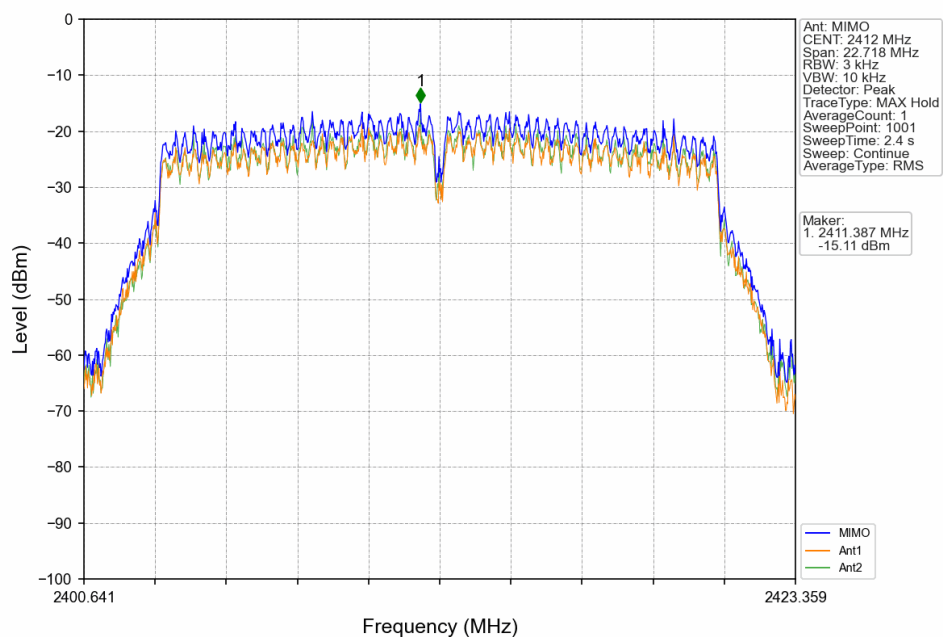
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

