

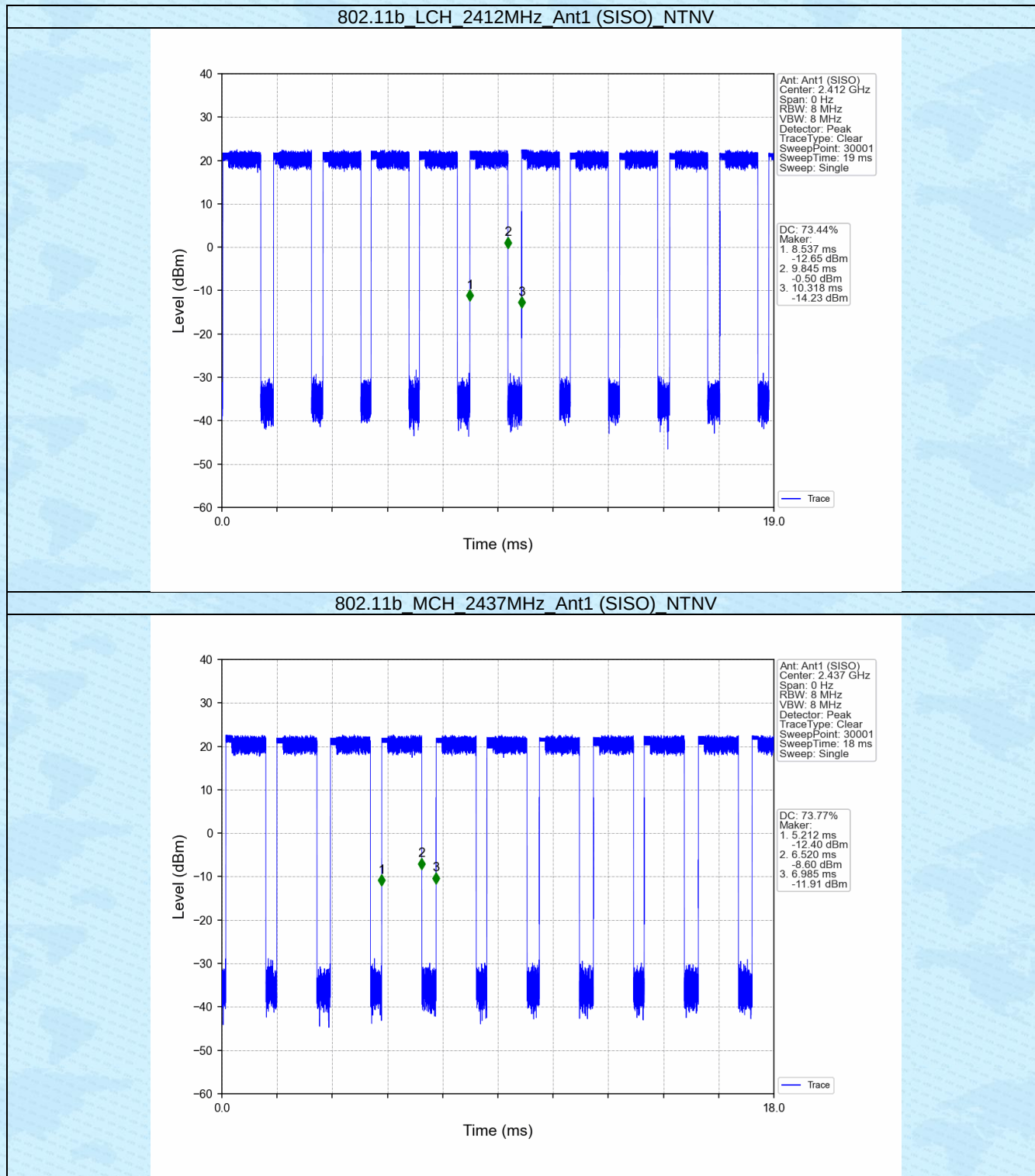
1. Duty Cycle

1.1 Ant1

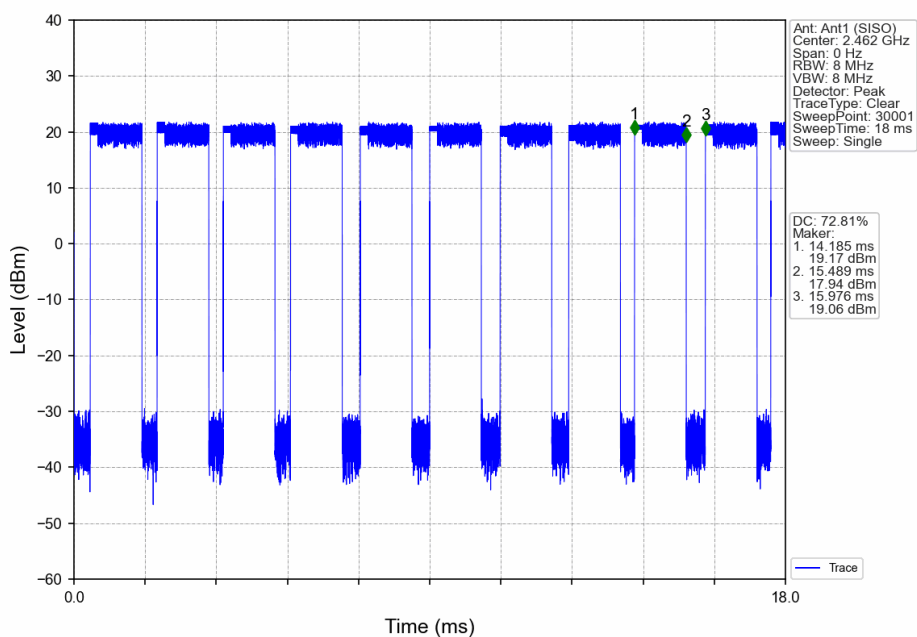
1.1.1 Test Result

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	1.308	1.781	73.44	1.34	5.56
		2437	1.308	1.773	73.77	1.32	5.21
		2462	1.304	1.791	72.81	1.38	5.94
802.11g	SISO	2412	1.308	1.782	73.40	1.34	5.59
		2437	1.309	1.791	73.09	1.36	5.92
		2462	1.308	1.791	73.03	1.36	5.52
802.11n (HT20)	SISO	2412	1.308	1.964	66.60	1.77	12.39
		2437	0.229	0.450	50.89	2.93	19.87
		2462	0.230	0.441	52.15	2.83	16.88
802.11n (HT40)	SISO	2422	0.129	0.359	35.93	4.45	19.57
		2437	0.130	0.350	37.14	4.30	16.56
		2452	0.130	0.350	37.14	4.30	20.97
802.11n (HT20)	MIMO	2412	0.230	0.459	50.11	3.00	20.89
		2437	0.229	0.441	51.93	2.85	18.83
		2462	0.230	0.460	50.00	3.01	18.97
802.11n (HT40)	MIMO	2422	0.130	0.359	36.21	4.41	17.57
		2437	0.130	0.359	36.21	4.41	17.58
		2452	0.129	0.359	35.93	4.45	19.57

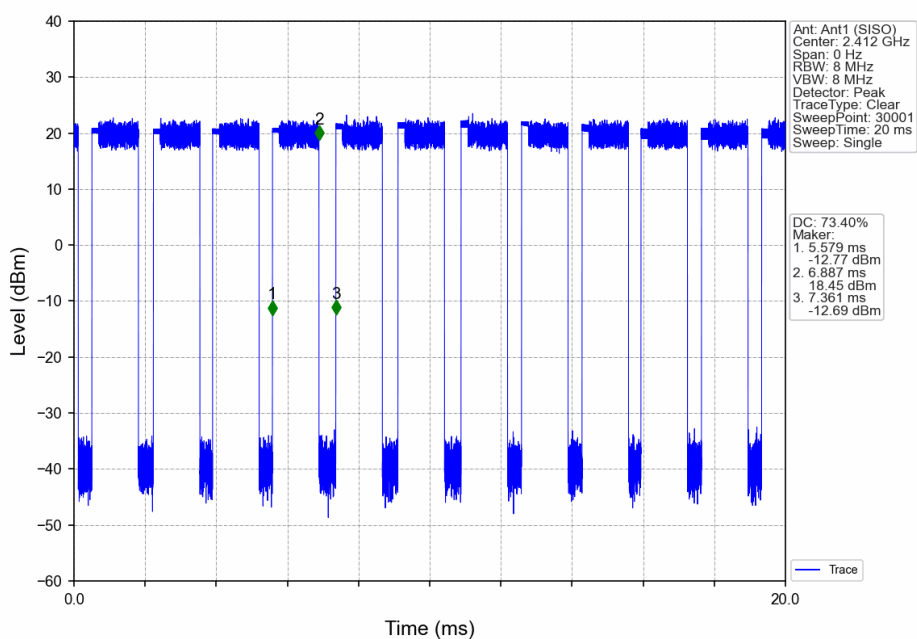
1.1.2 Test Graph



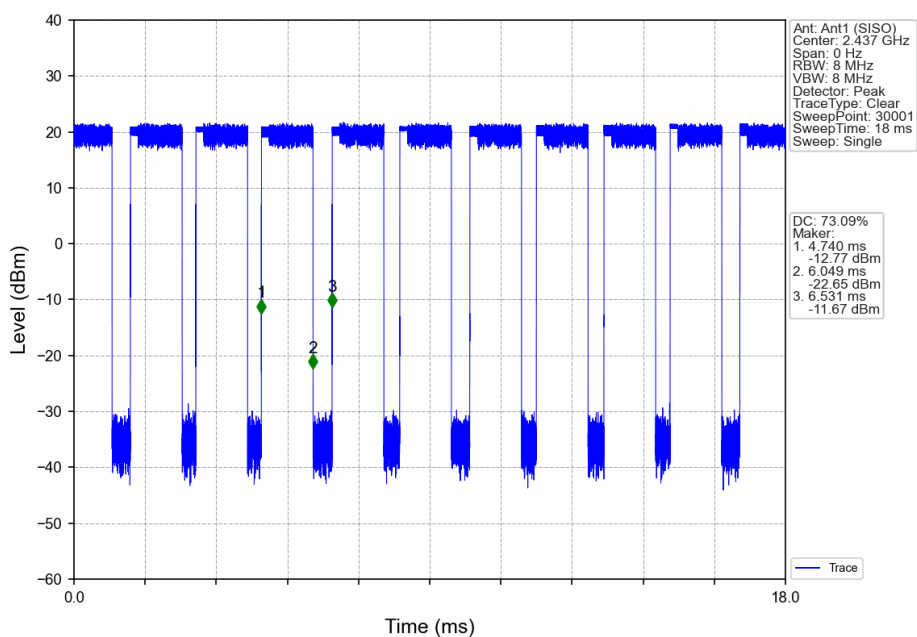
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



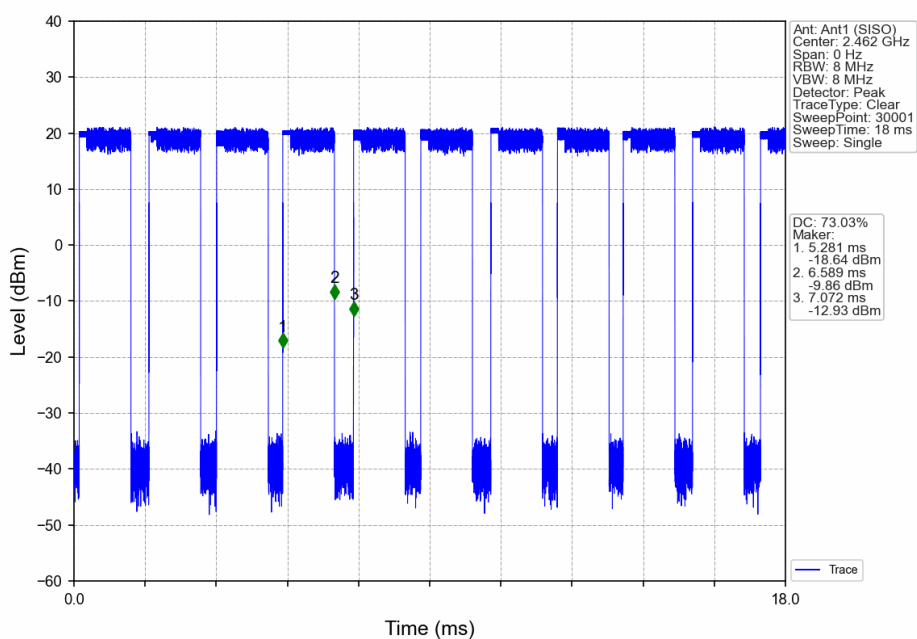
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



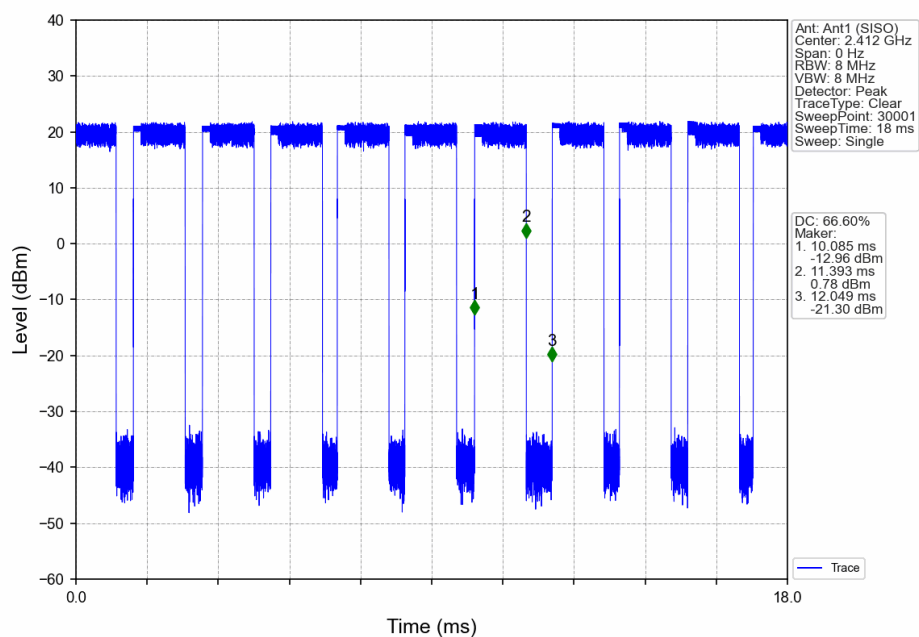
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



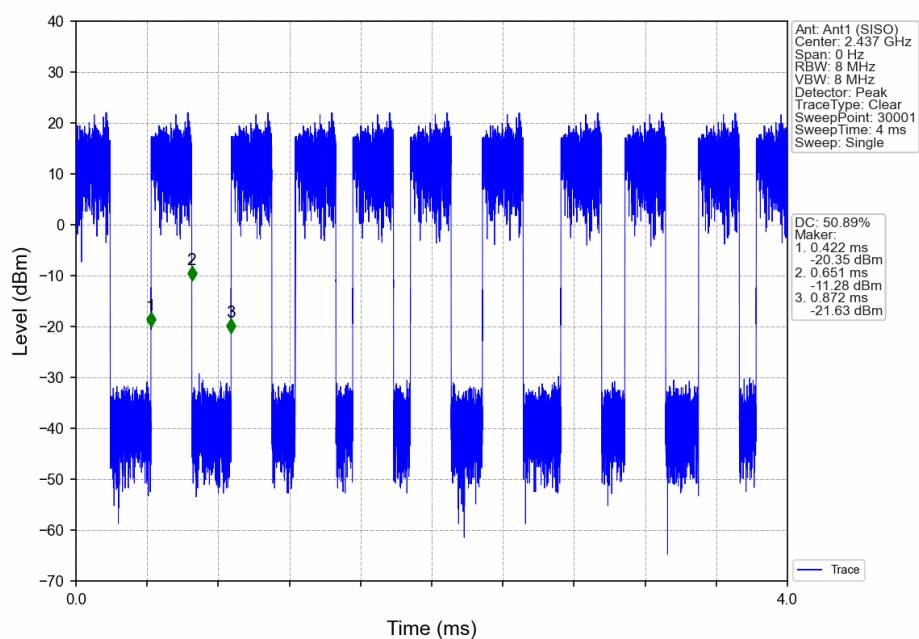
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



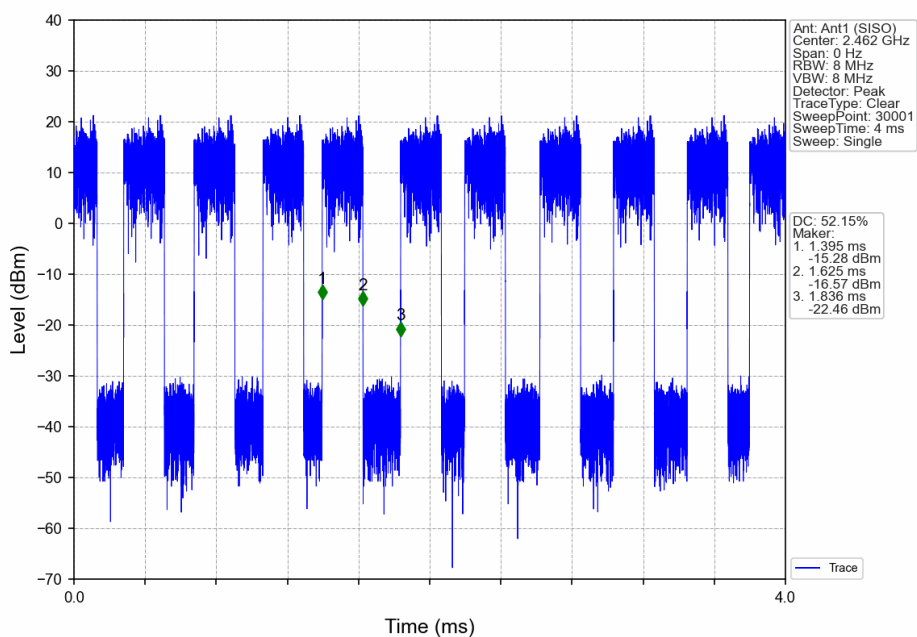
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



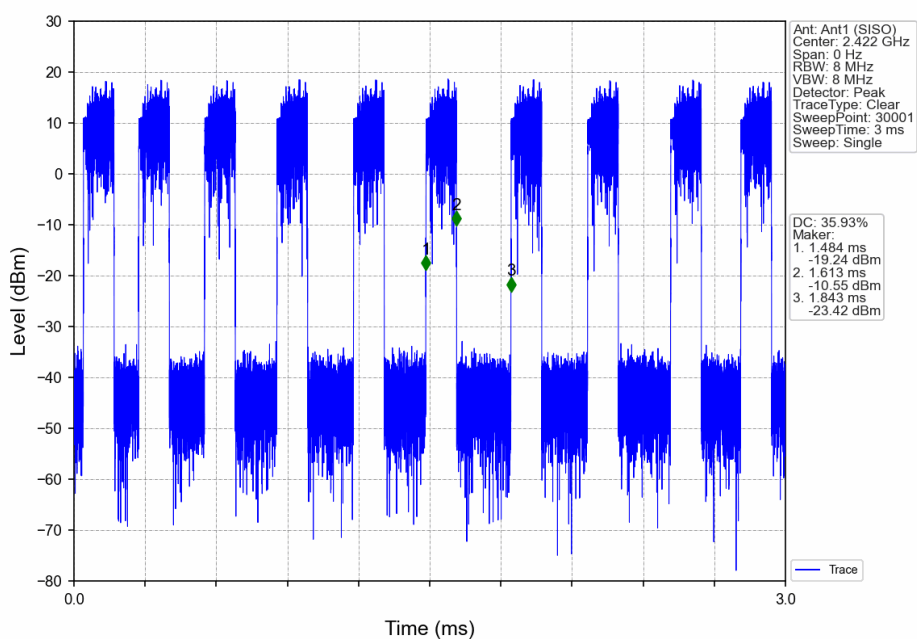
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



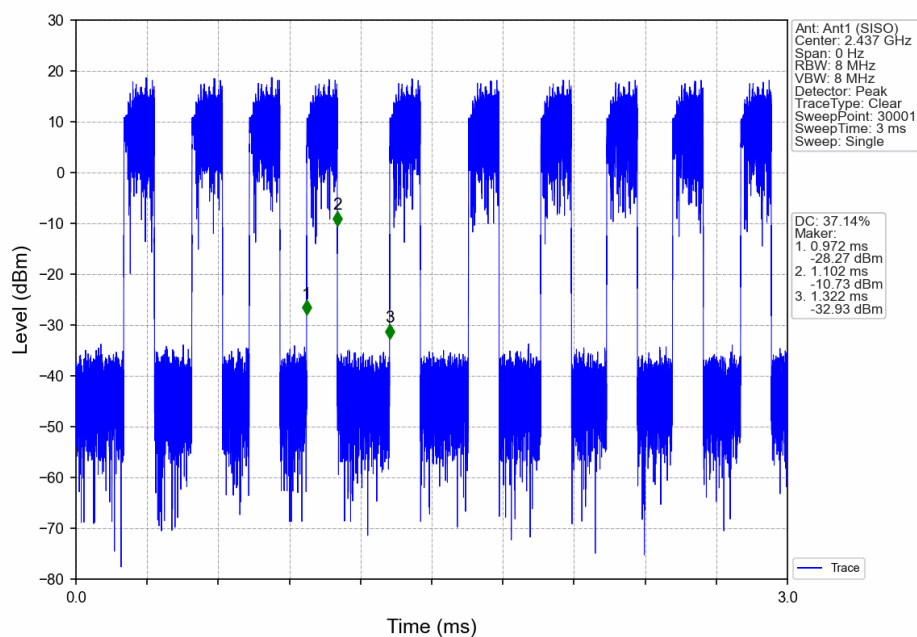
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



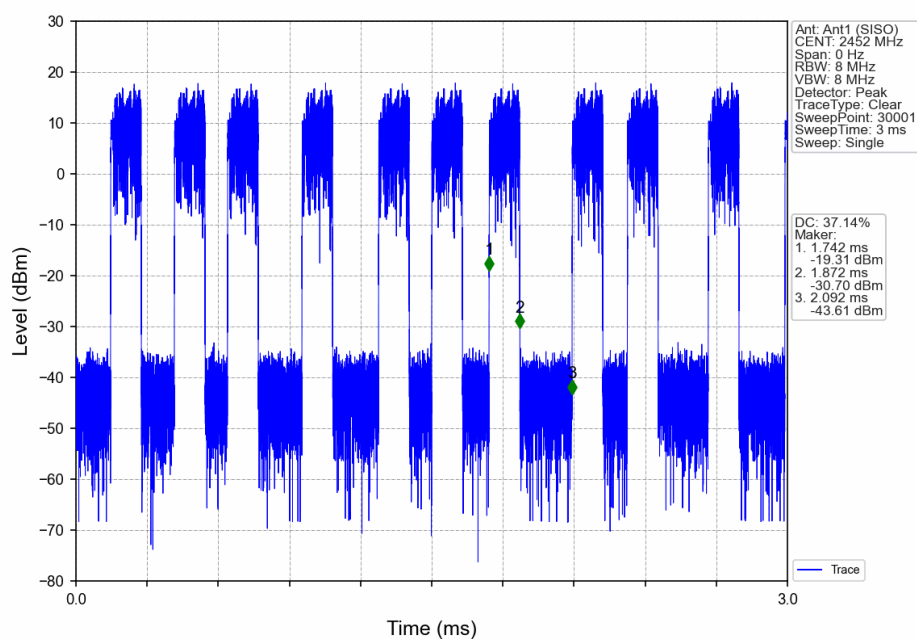
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



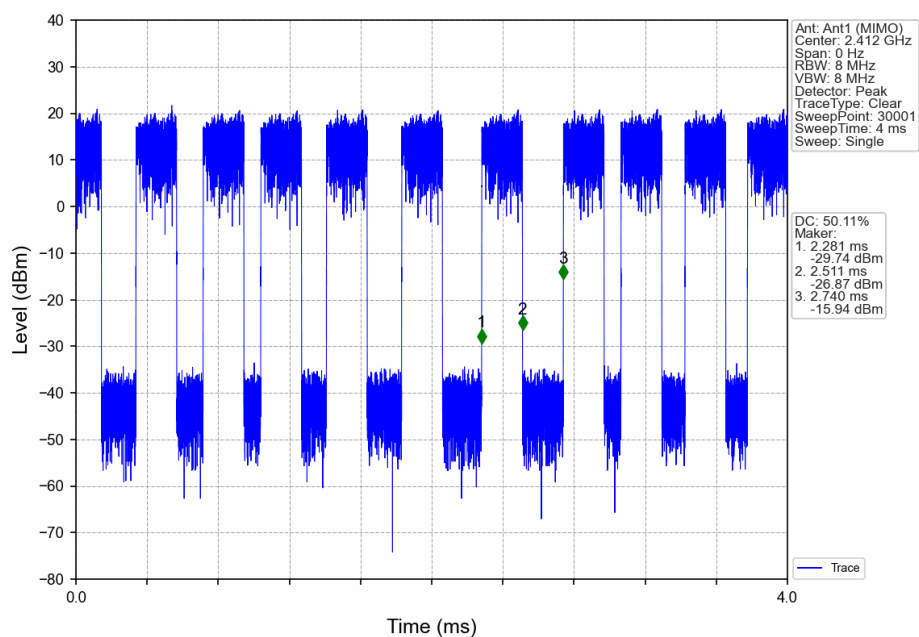
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



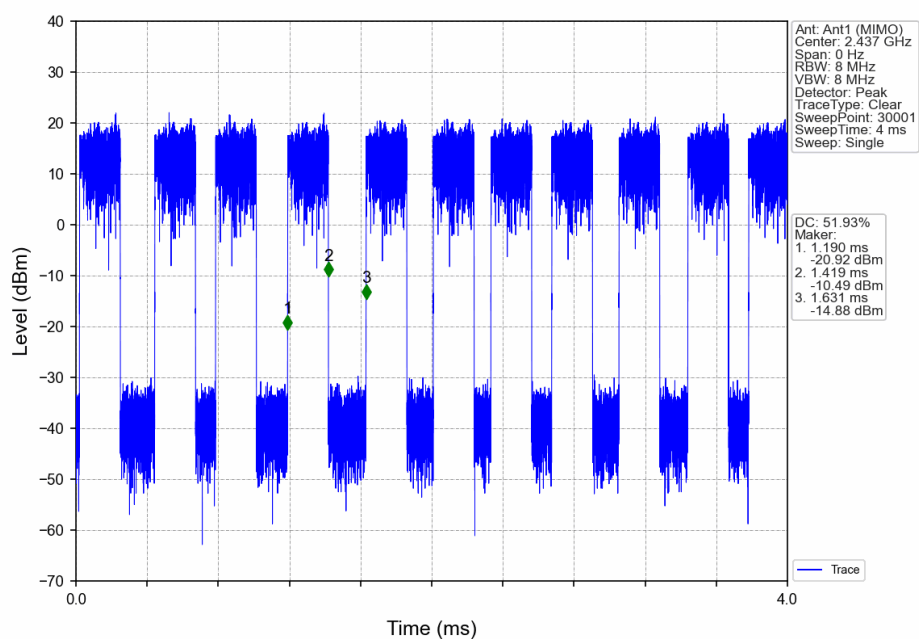
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



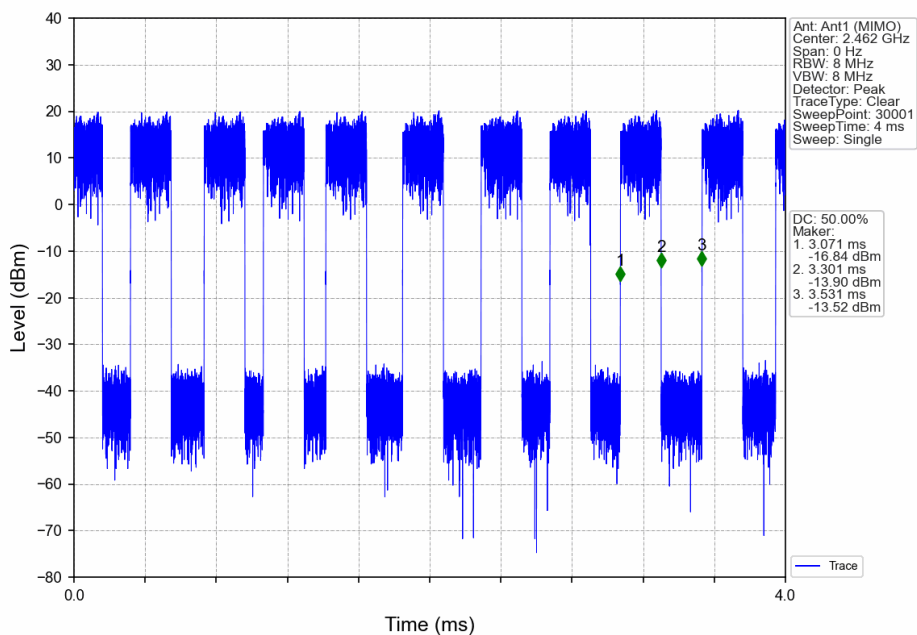
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



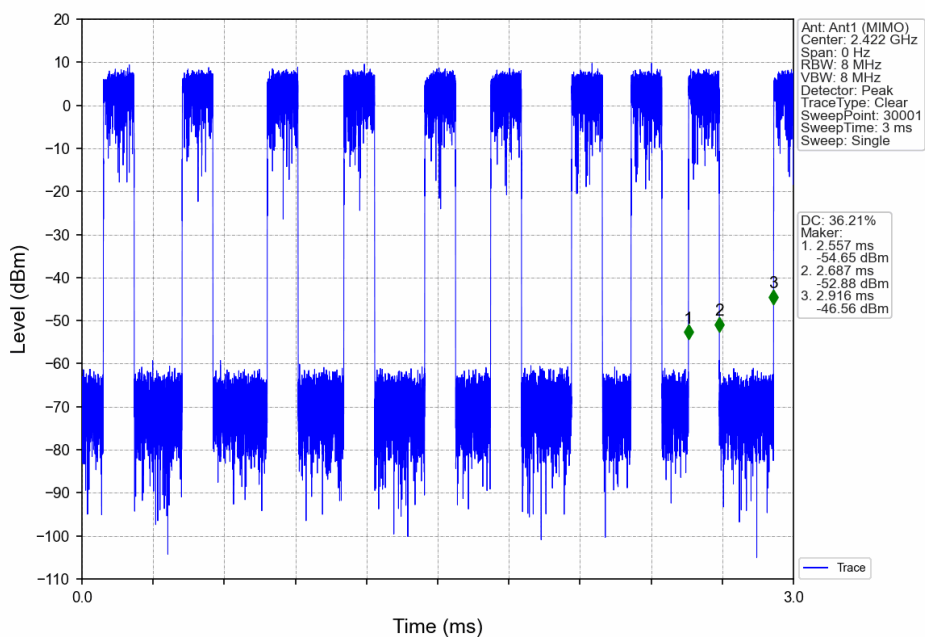
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



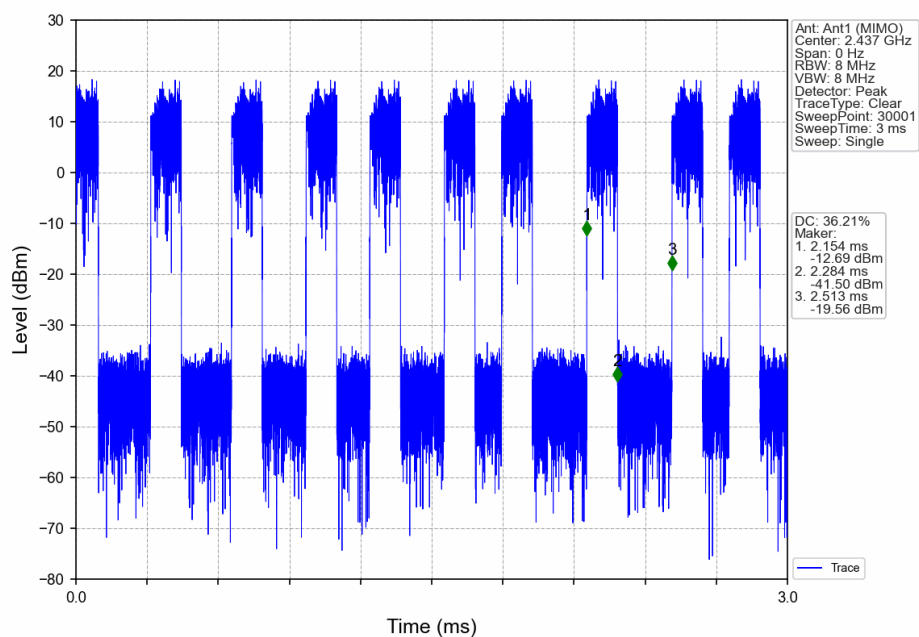
802.11n(HT20) HCH 2462MHz_Ant1 (MIMO)_NTNV



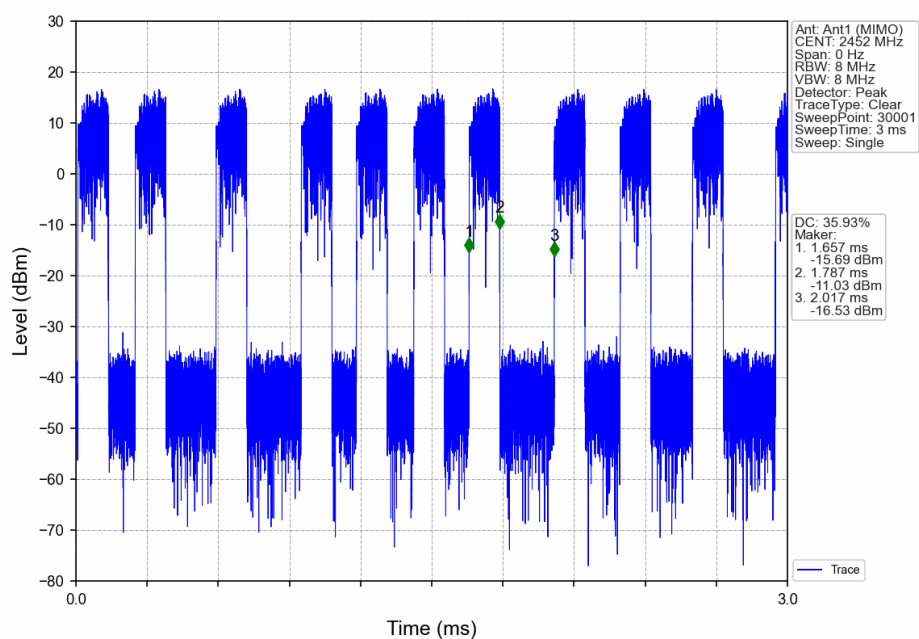
802.11n(HT40) LCH 2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40) MCH 2437MHz_Ant1 (MIMO) NTN



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



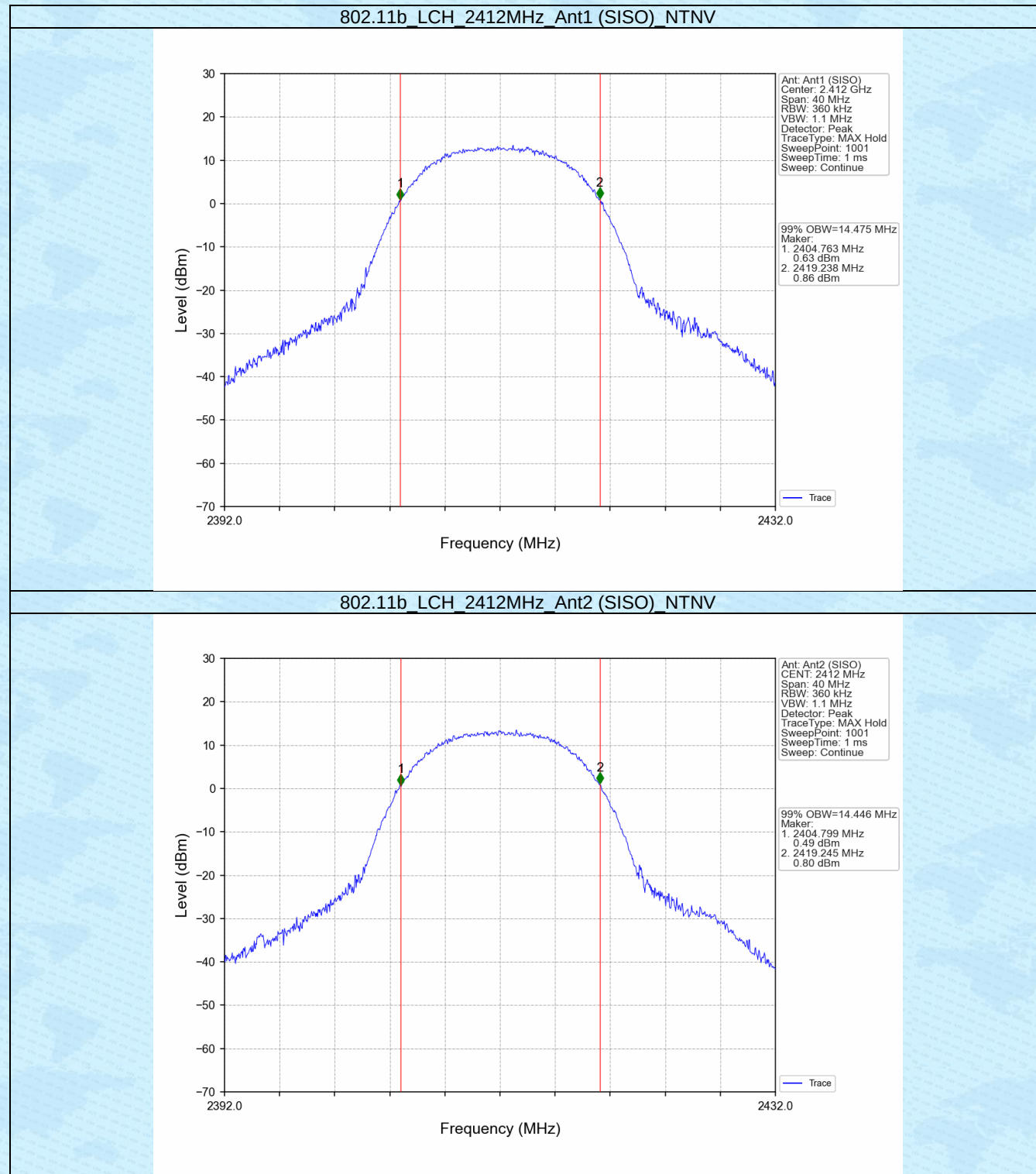
2. Bandwidth

2.1 OBW

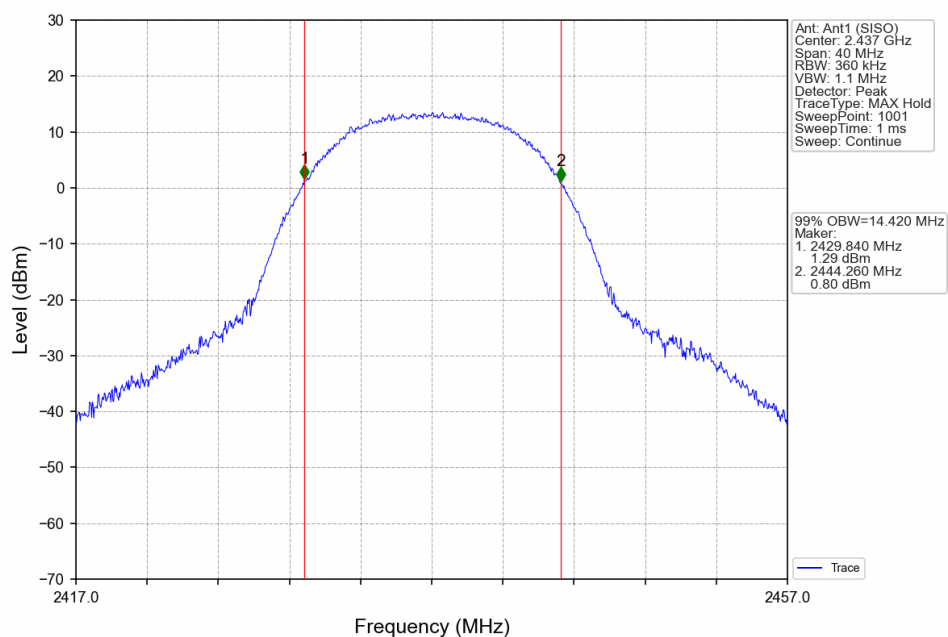
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.475	Pass
			2	14.446	Pass
		2437	1	14.420	Pass
			2	14.487	Pass
		2462	1	14.481	Pass
			2	14.504	Pass
802.11g	SISO	2412	1	16.756	Pass
			2	16.918	Pass
		2437	1	17.084	Pass
			2	16.996	Pass
		2462	1	16.937	Pass
			2	16.758	Pass
802.11n (HT20)	SISO	2412	1	18.594	Pass
			2	18.697	Pass
		2437	1	17.941	Pass
			2	17.979	Pass
		2462	1	17.907	Pass
			2	18.023	Pass
802.11n (HT40)	SISO	2422	1	36.285	Pass
			2	36.541	Pass
		2437	1	36.418	Pass
			2	36.274	Pass
		2452	1	36.413	Pass
			2	36.253	Pass

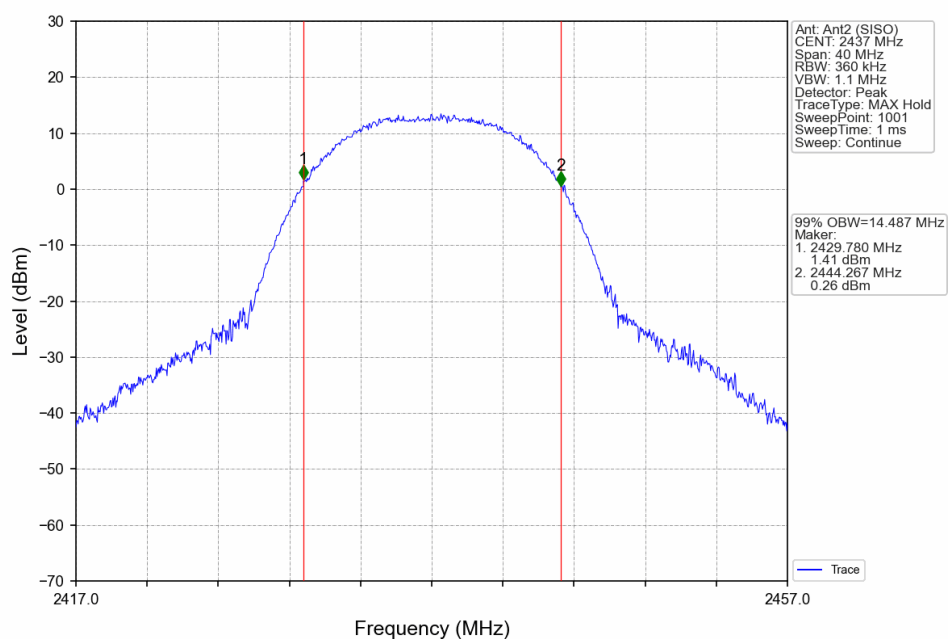
2.1.2 Test Graph



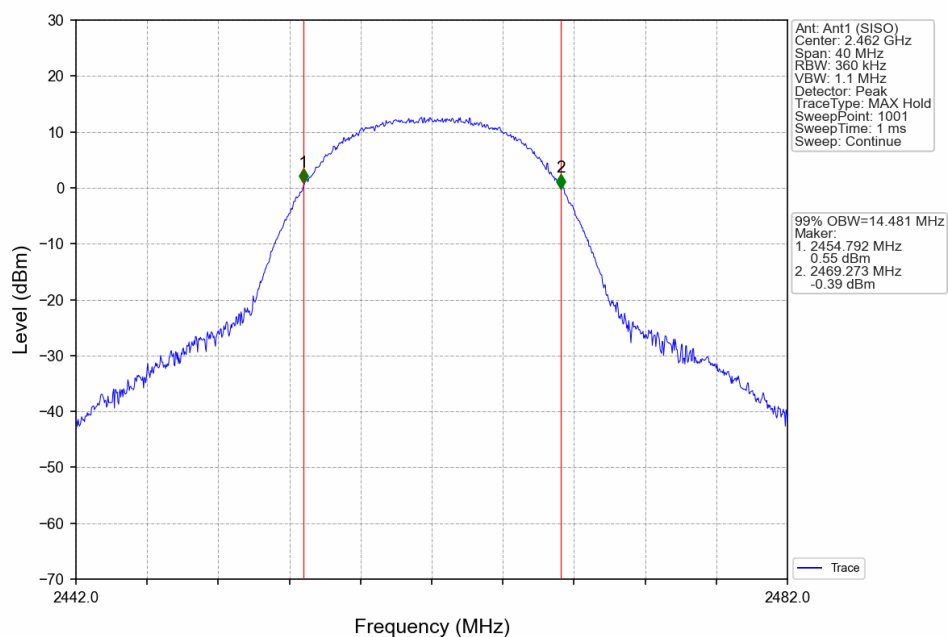
802.11b MCH_2437MHz_Ant1 (SISO)_NTNV



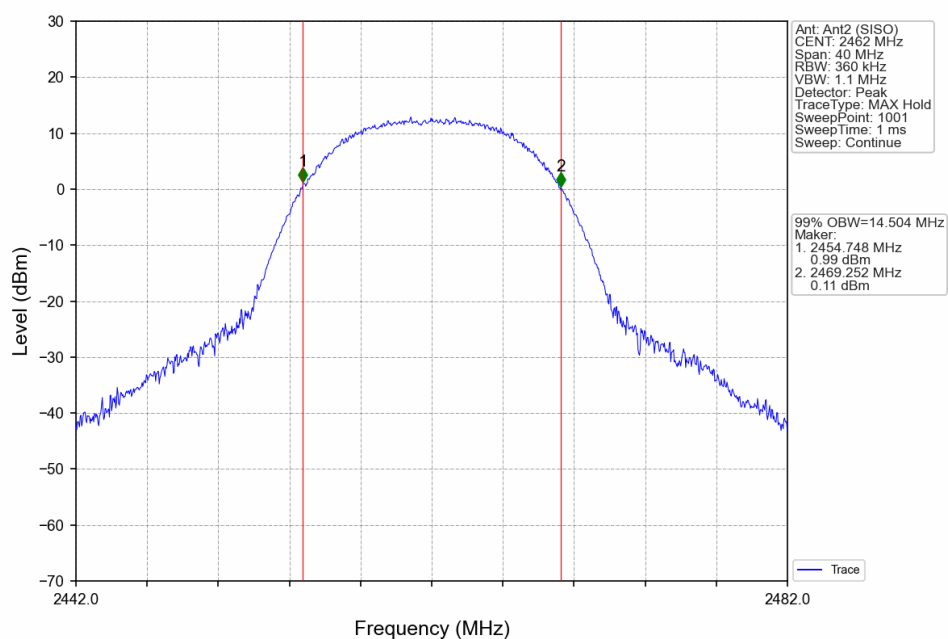
802.11b MCH_2437MHz_Ant2 (SISO)_NTNV



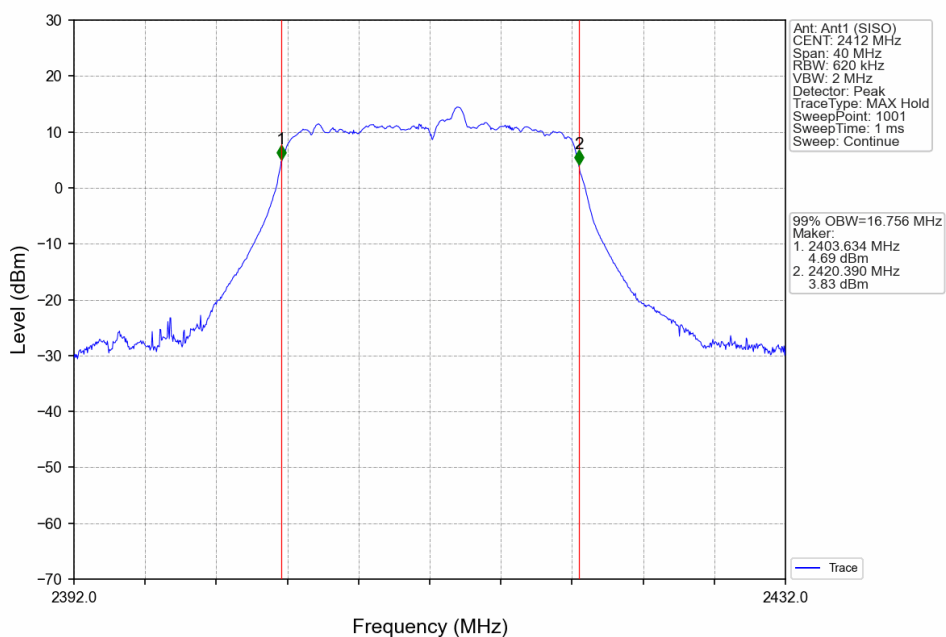
802.11b HCH 2462MHz_Ant1 (SISO) NTN



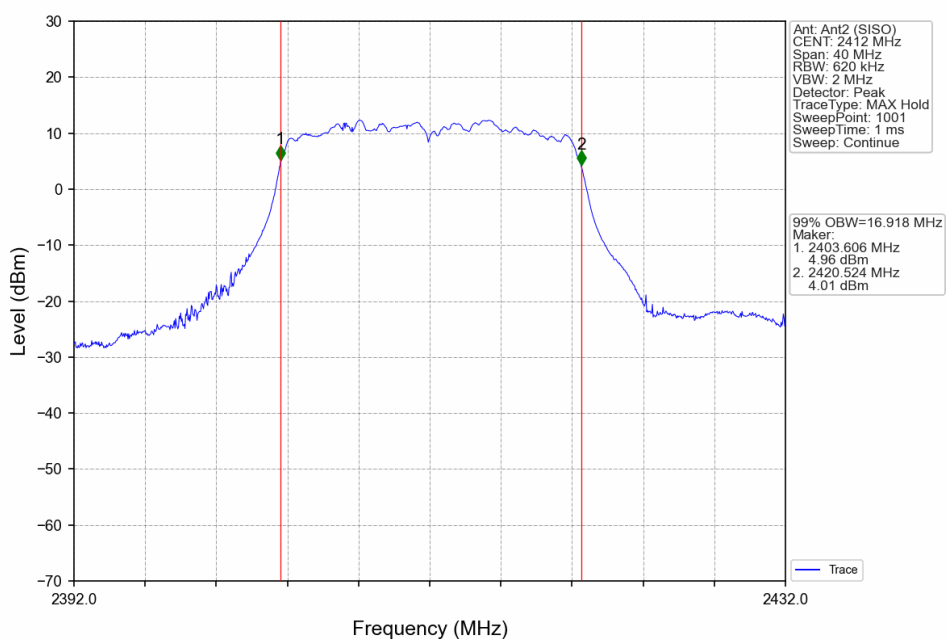
802.11b HCH 2462MHz_Ant2 (SISO) NTN



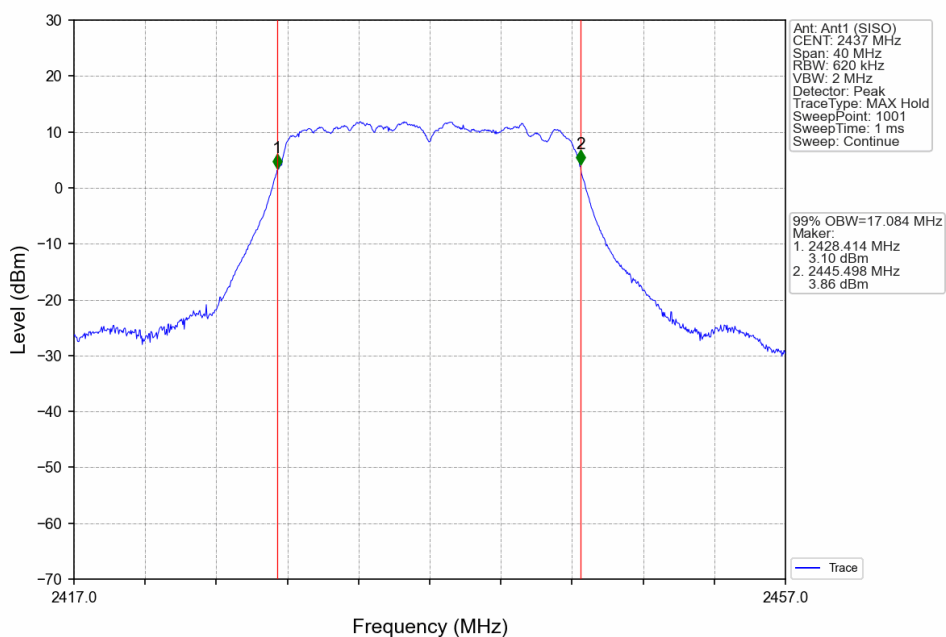
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



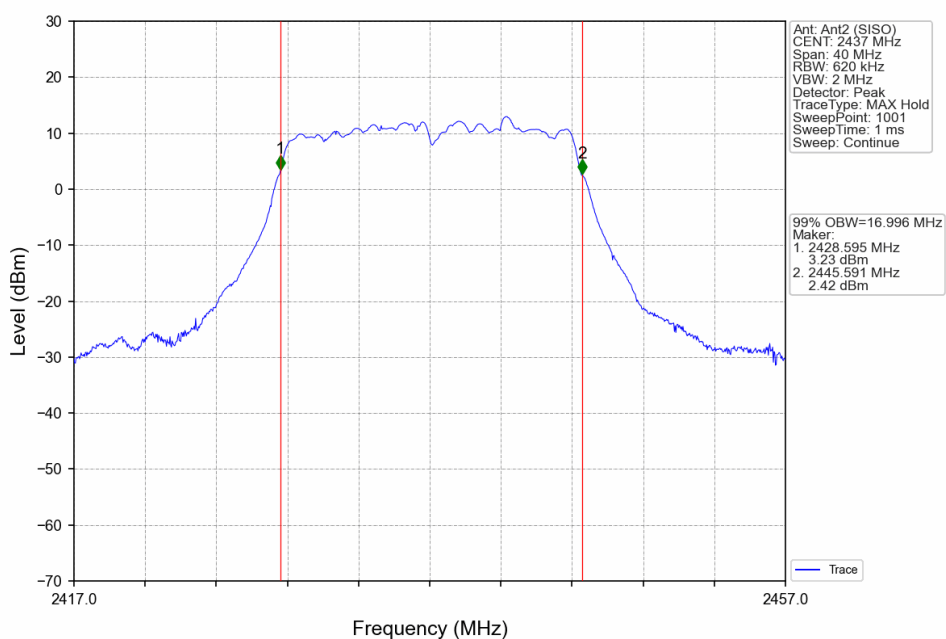
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



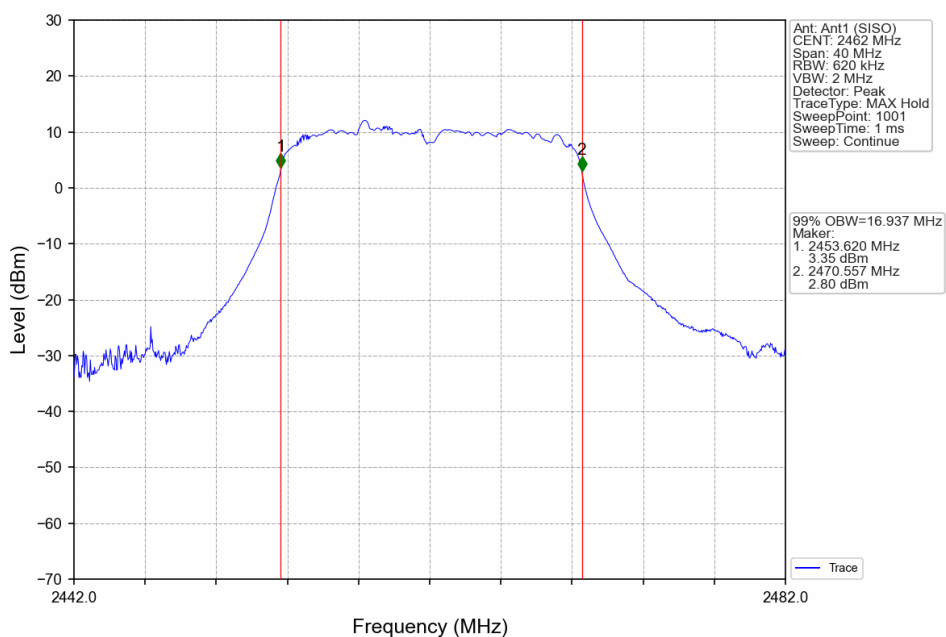
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



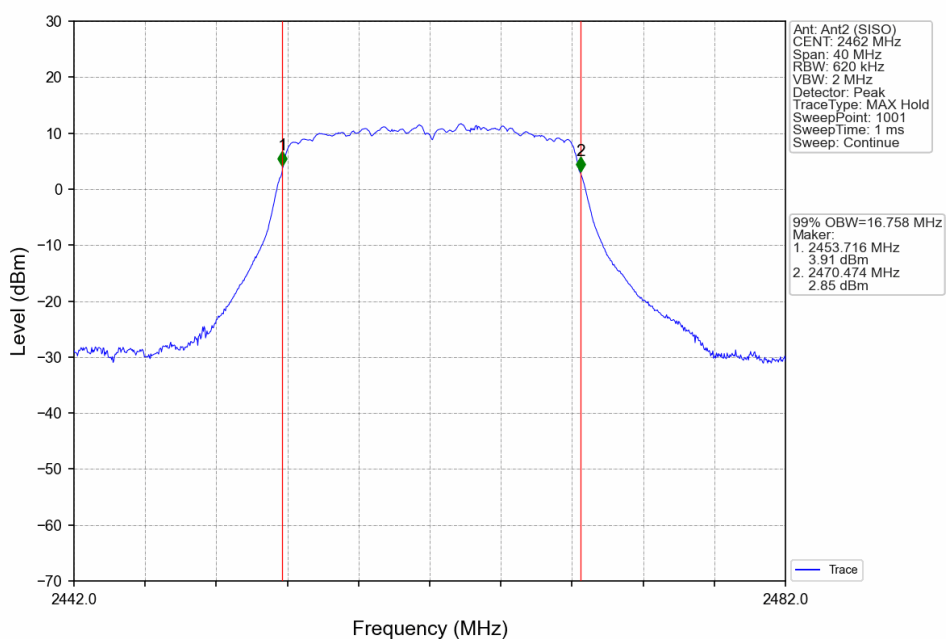
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



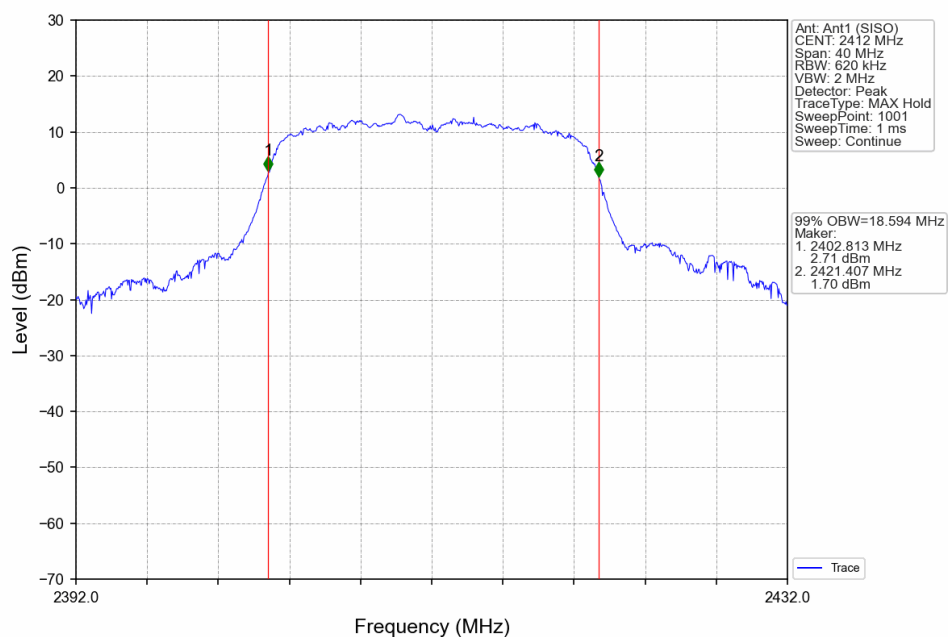
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



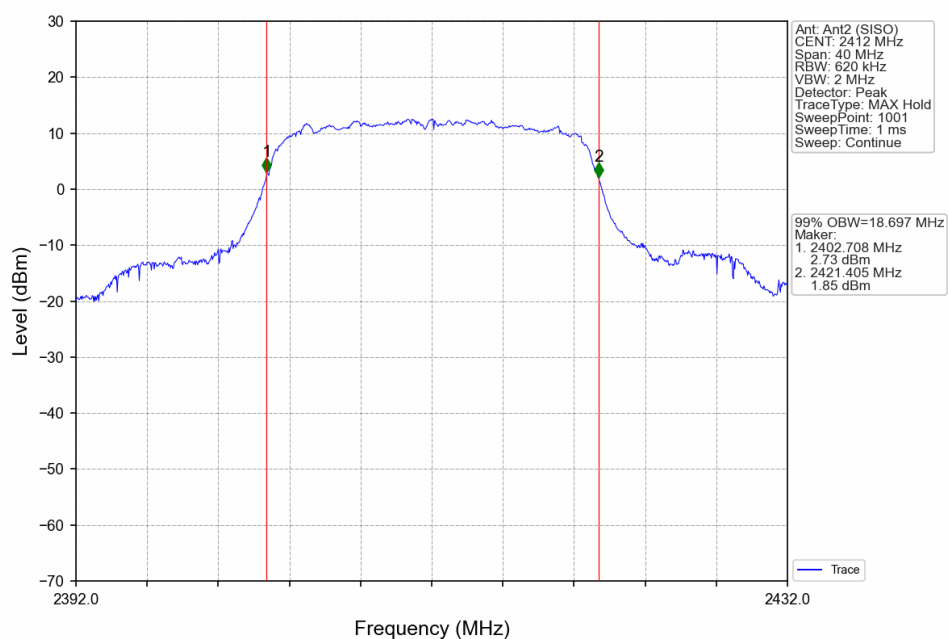
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



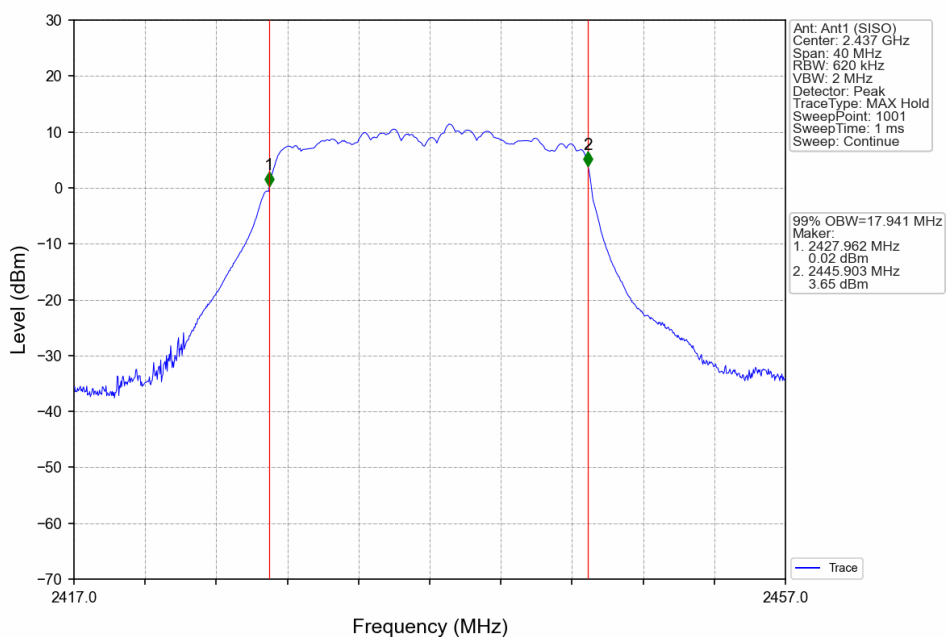
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



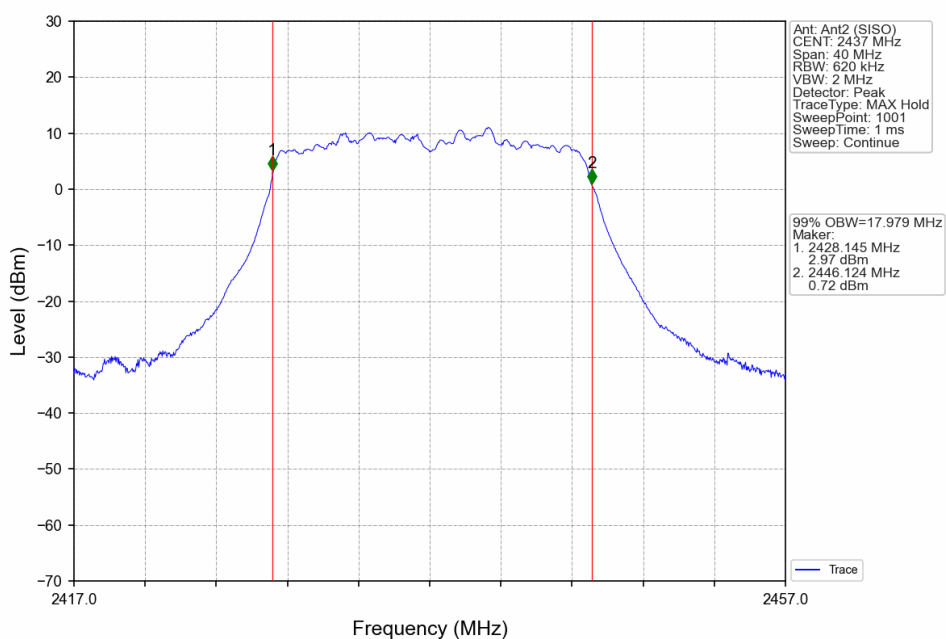
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



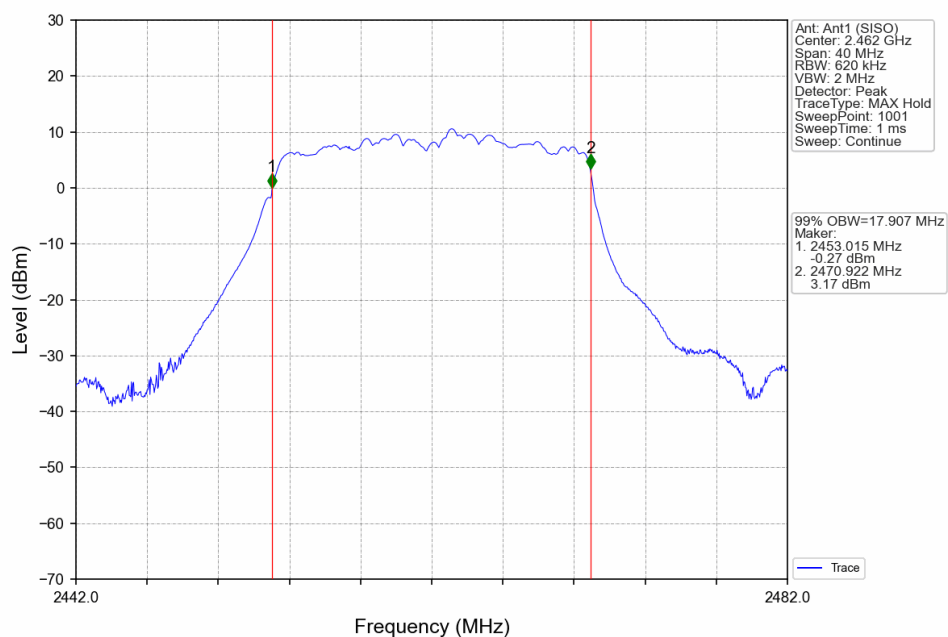
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



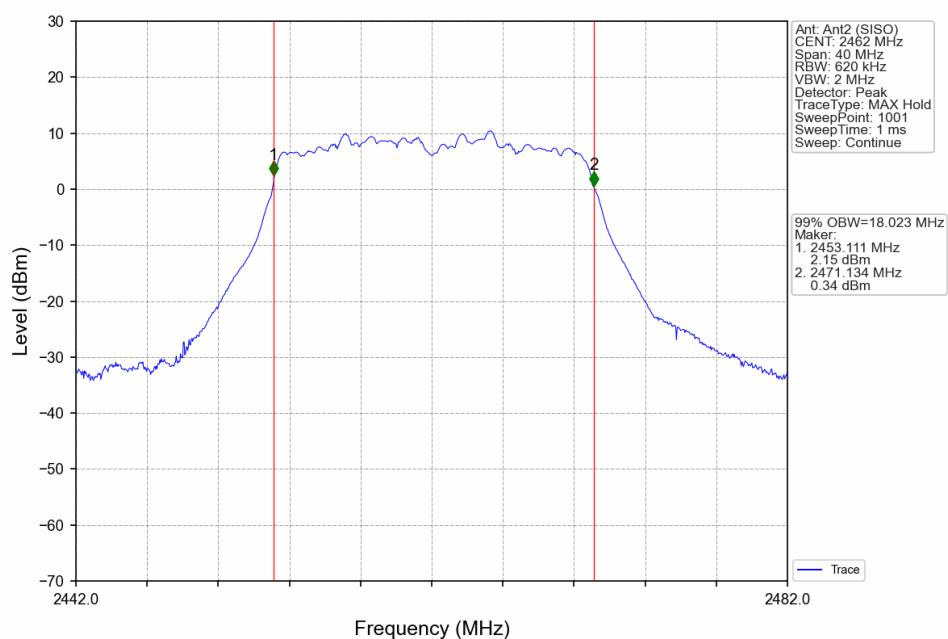
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



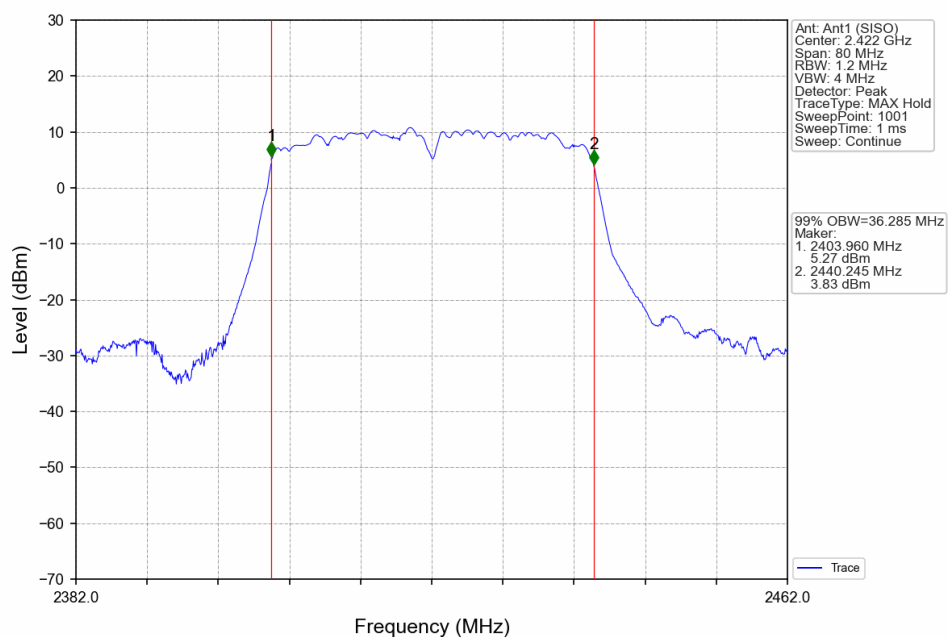
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



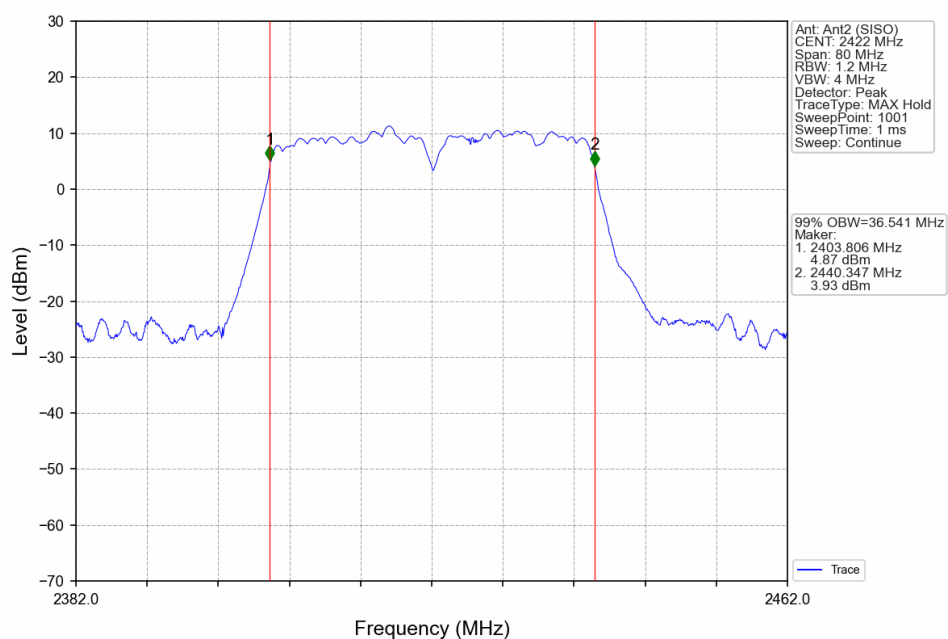
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



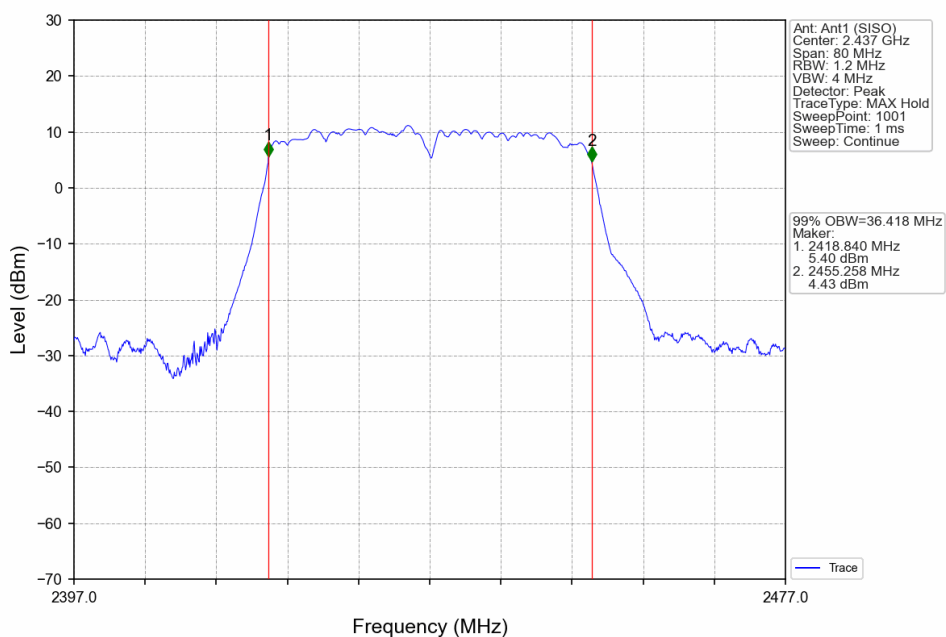
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



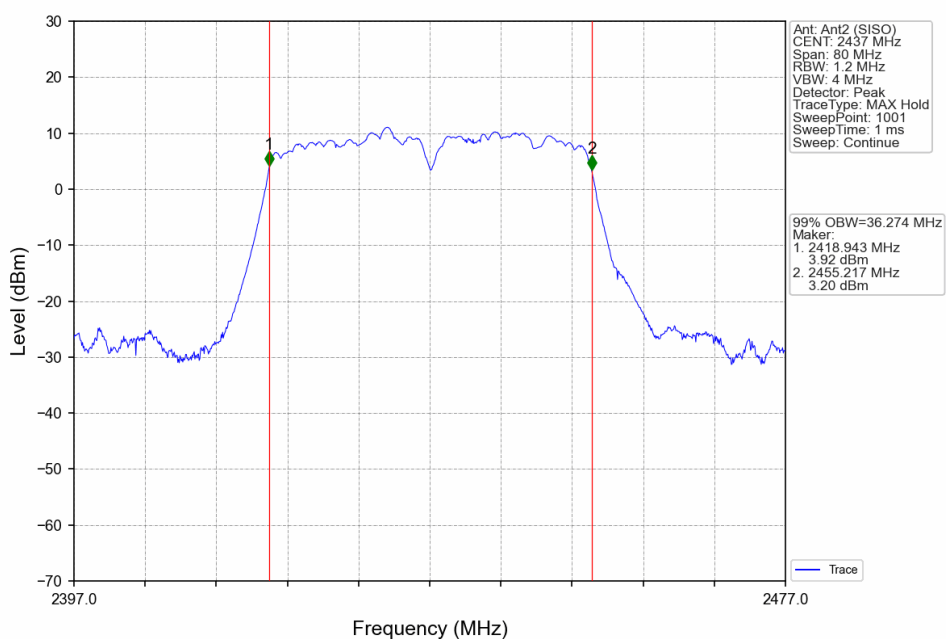
802.11n(HT40) LCH 2422MHz Ant2 (SISO) NTN



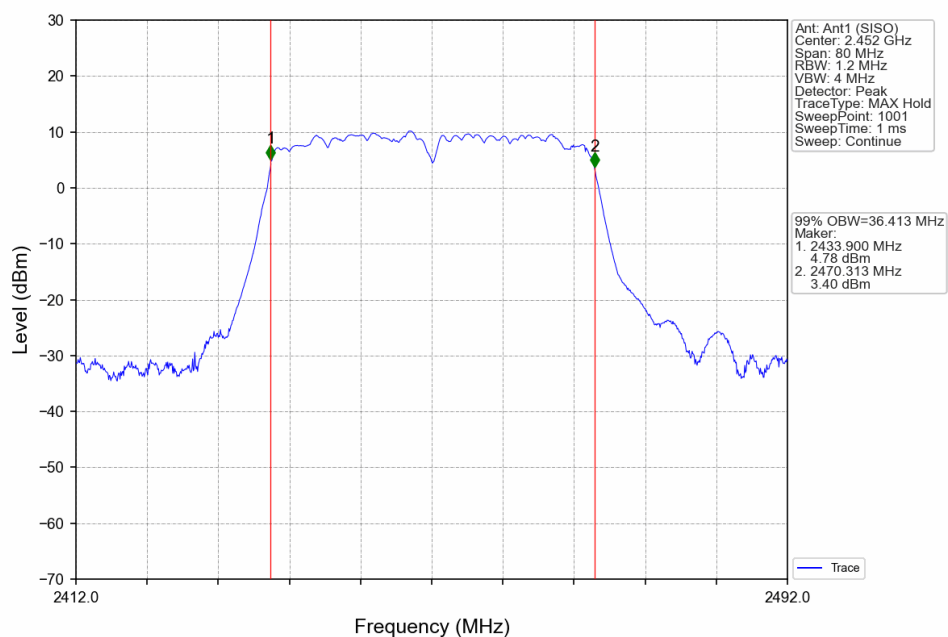
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



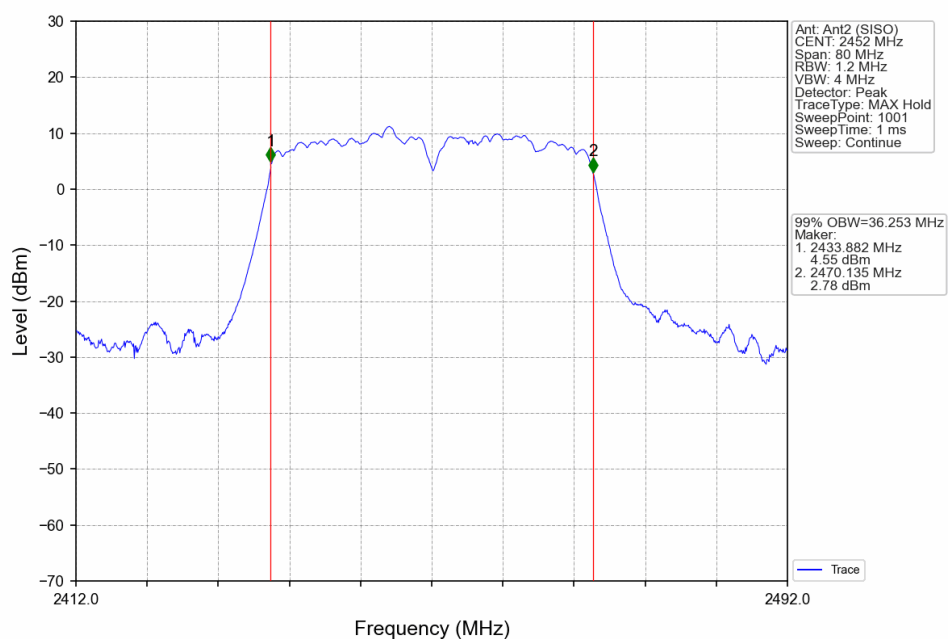
802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV

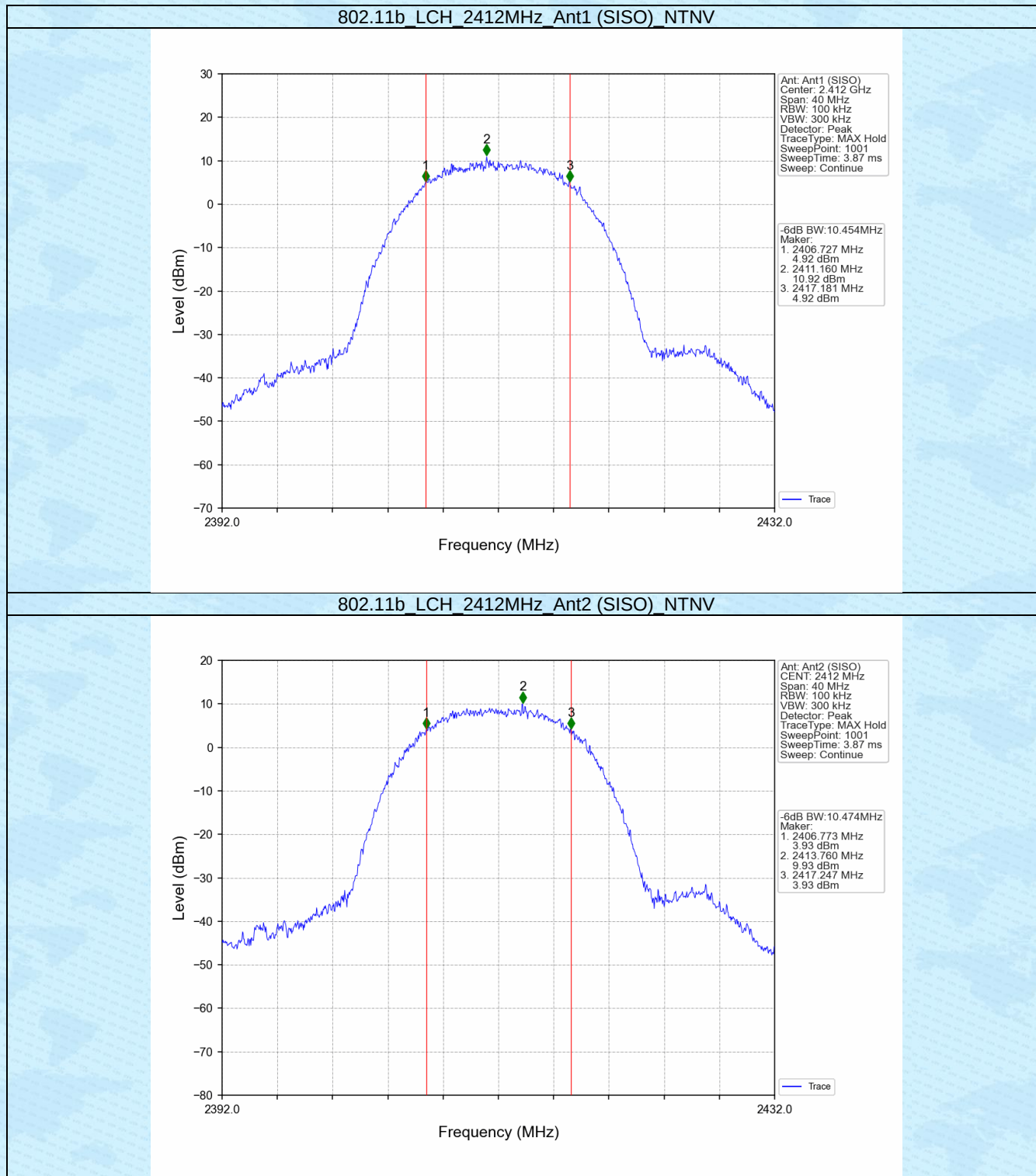


2.2 6dB BW

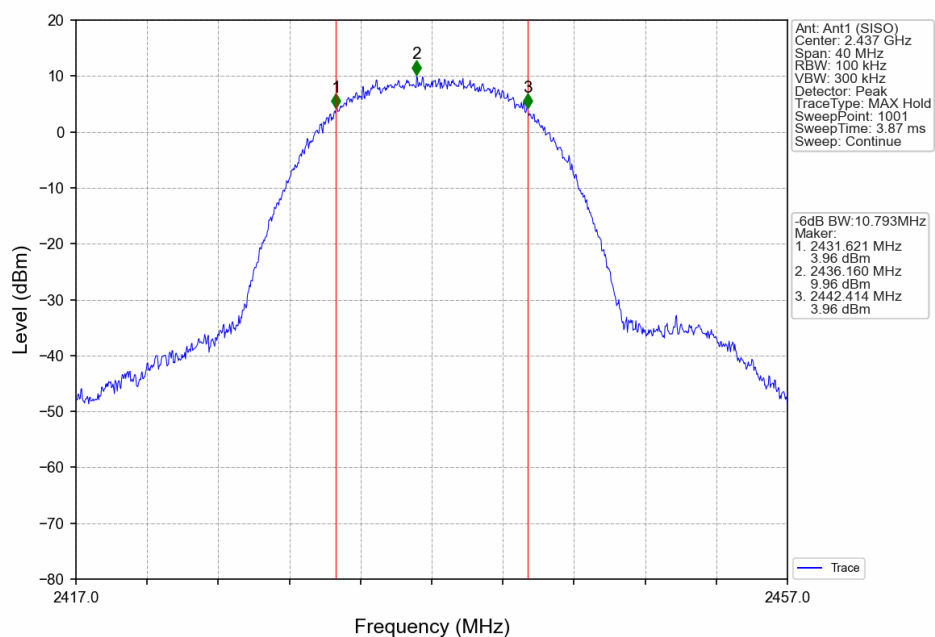
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.454	≥ 0.5	Pass
			2	10.474	≥ 0.5	Pass
		2437	1	10.793	≥ 0.5	Pass
			2	10.812	≥ 0.5	Pass
		2462	1	11.241	≥ 0.5	Pass
			2	10.509	≥ 0.5	Pass
802.11g	SISO	2412	1	16.345	≥ 0.5	Pass
			2	16.348	≥ 0.5	Pass
		2437	1	16.385	≥ 0.5	Pass
			2	16.133	≥ 0.5	Pass
		2462	1	16.074	≥ 0.5	Pass
			2	16.054	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.022	≥ 0.5	Pass
			2	15.186	≥ 0.5	Pass
		2437	1	16.876	≥ 0.5	Pass
			2	16.316	≥ 0.5	Pass
		2462	1	16.524	≥ 0.5	Pass
			2	17.306	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.257	≥ 0.5	Pass
			2	36.101	≥ 0.5	Pass
		2437	1	35.295	≥ 0.5	Pass
			2	35.456	≥ 0.5	Pass
		2452	1	35.317	≥ 0.5	Pass
			2	35.186	≥ 0.5	Pass

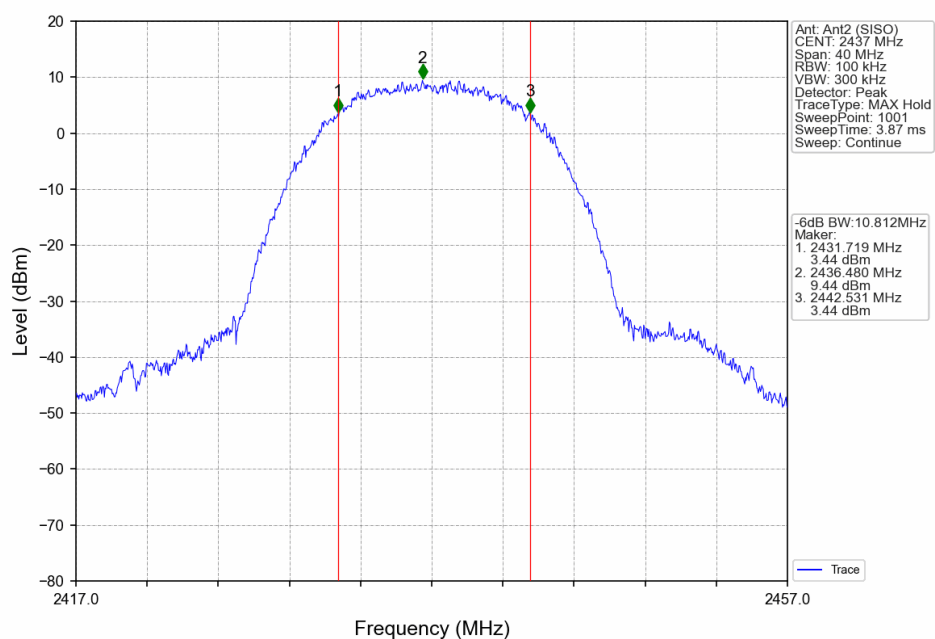
2.2.2 Test Graph



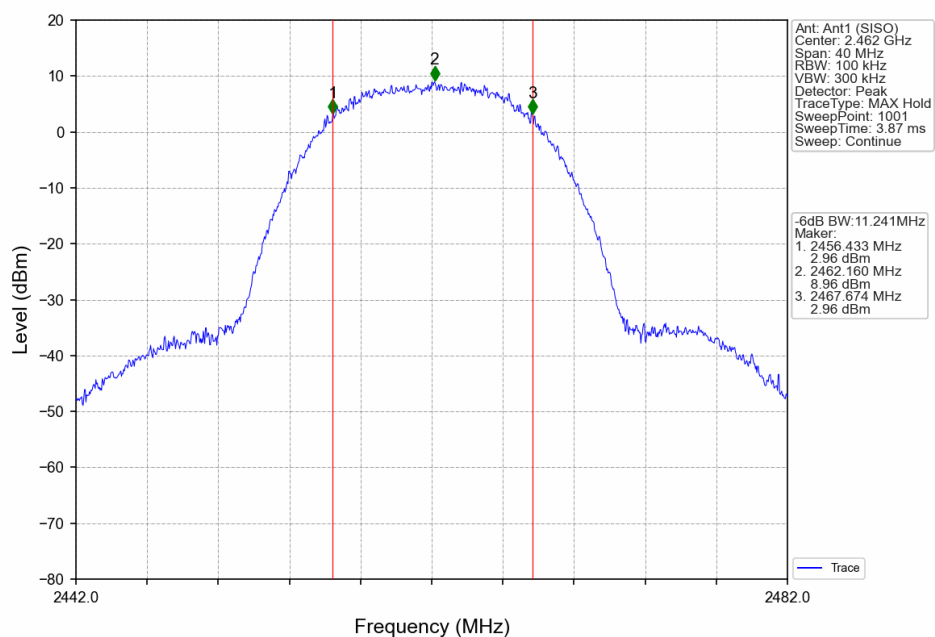
802.11b MCH_2437MHz_Ant1 (SISO)_NTNV



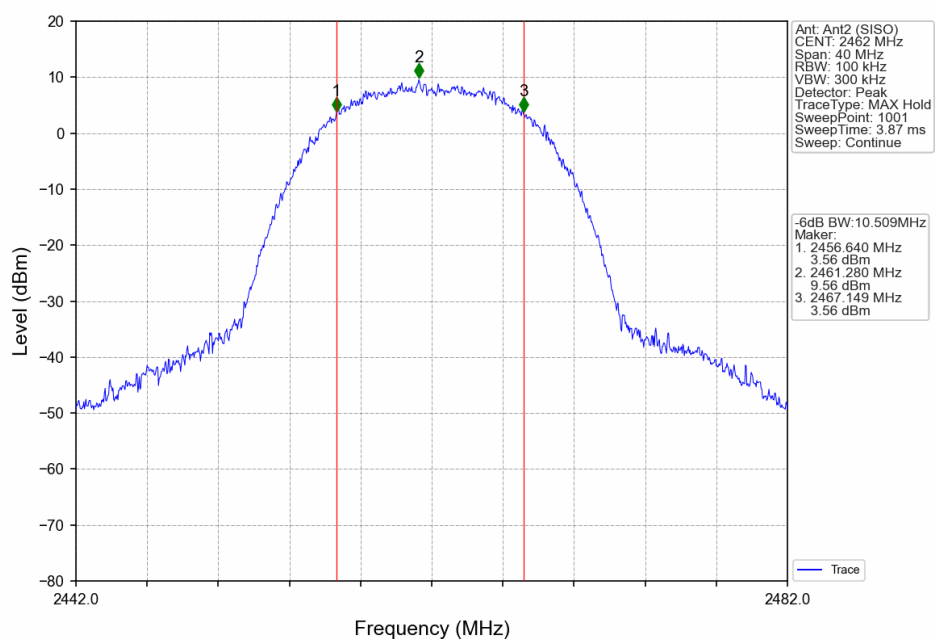
802.11b MCH_2437MHz_Ant2 (SISO)_NTNV



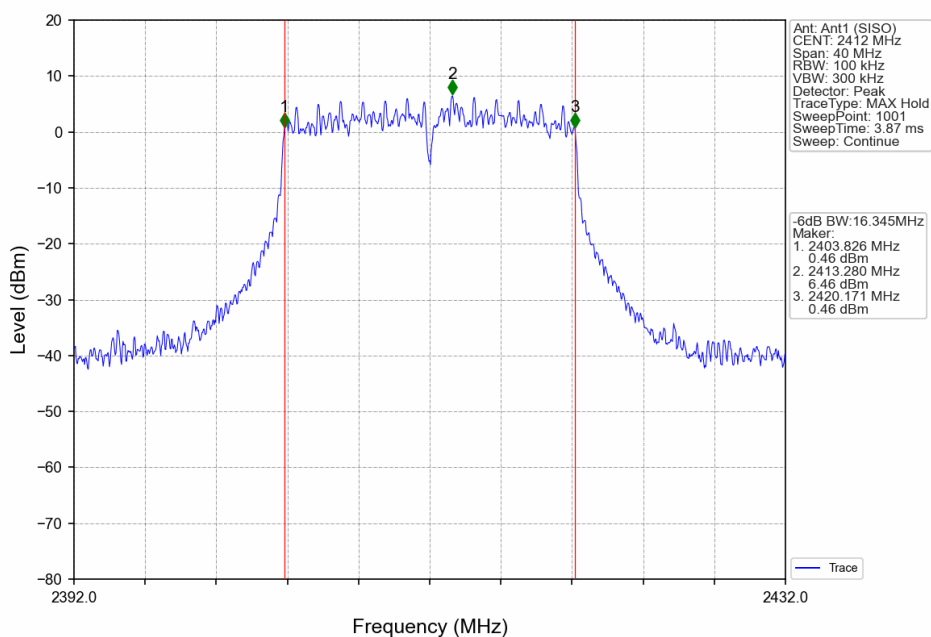
802.11b HCH 2462MHz_Ant1 (SISO) NTN



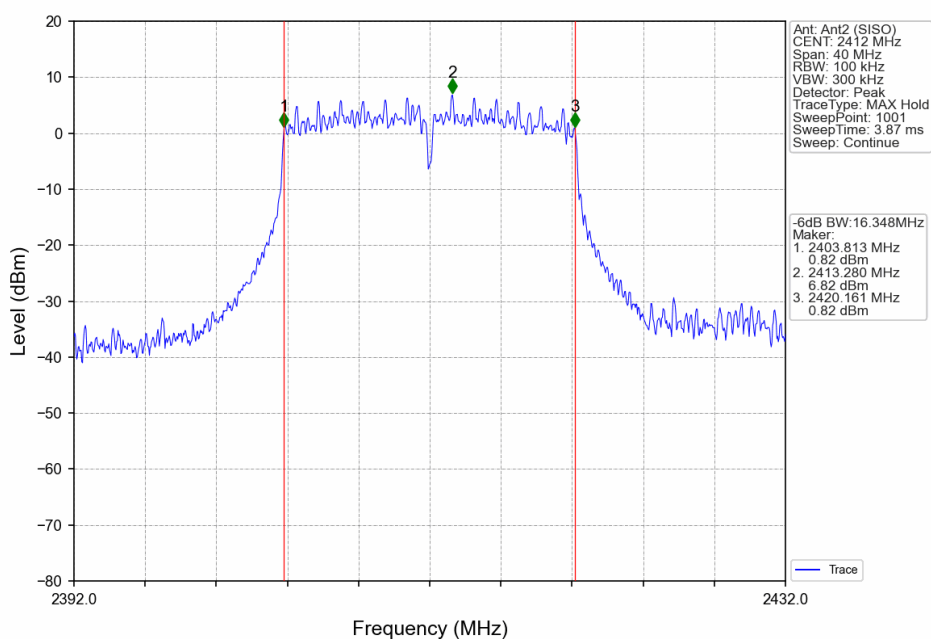
802.11b HCH 2462MHz_Ant2 (SISO) NTN



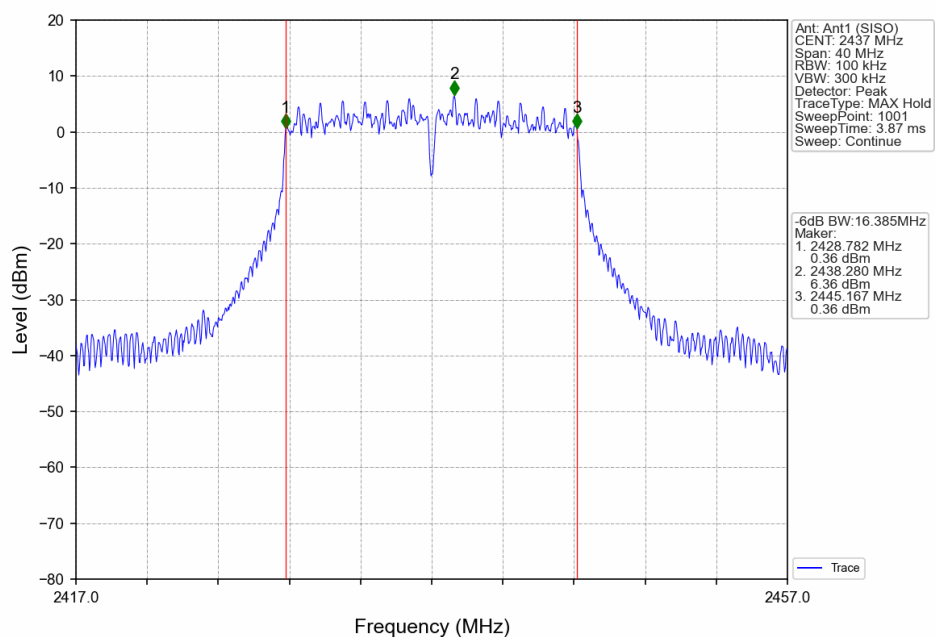
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



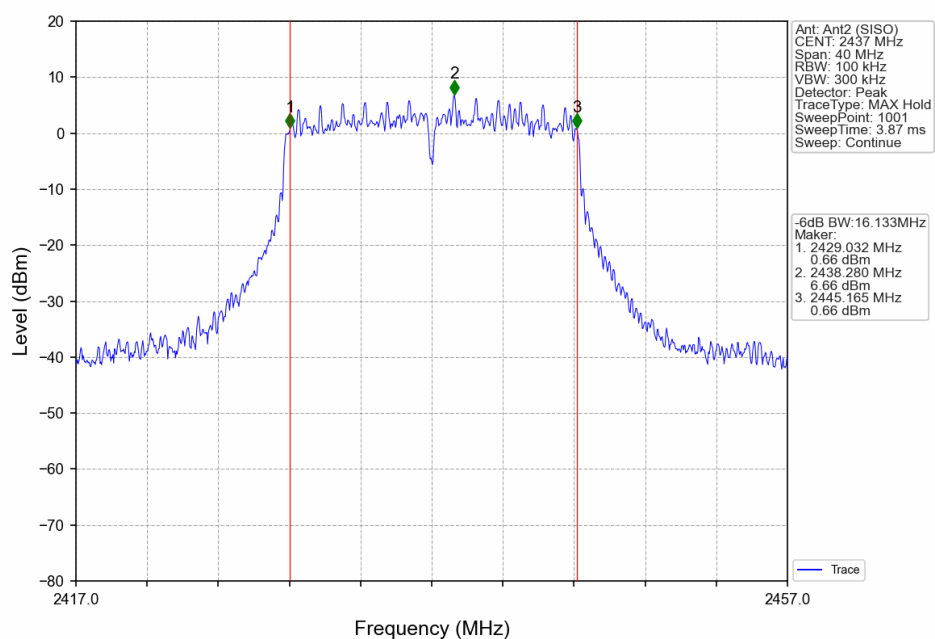
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



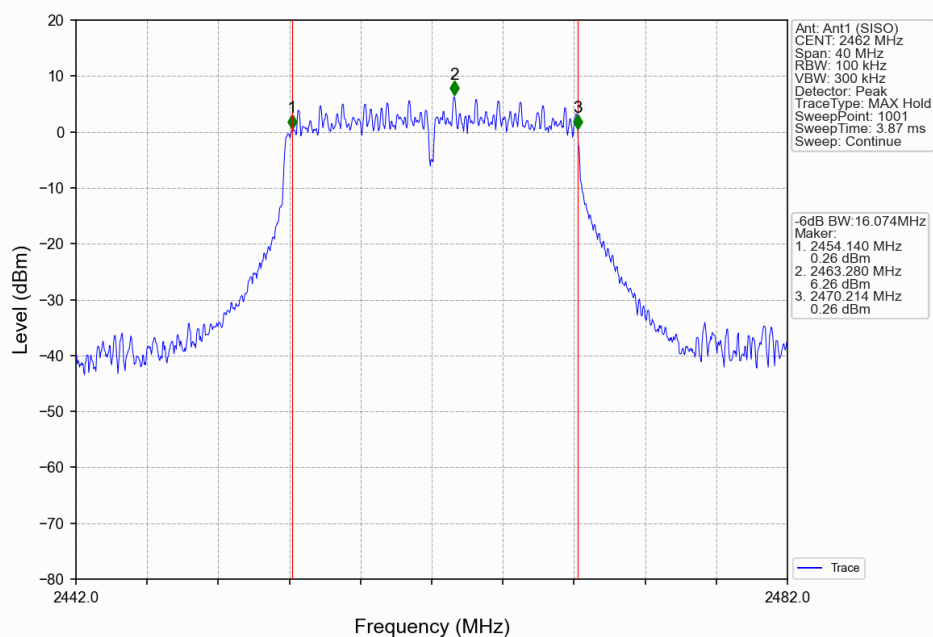
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



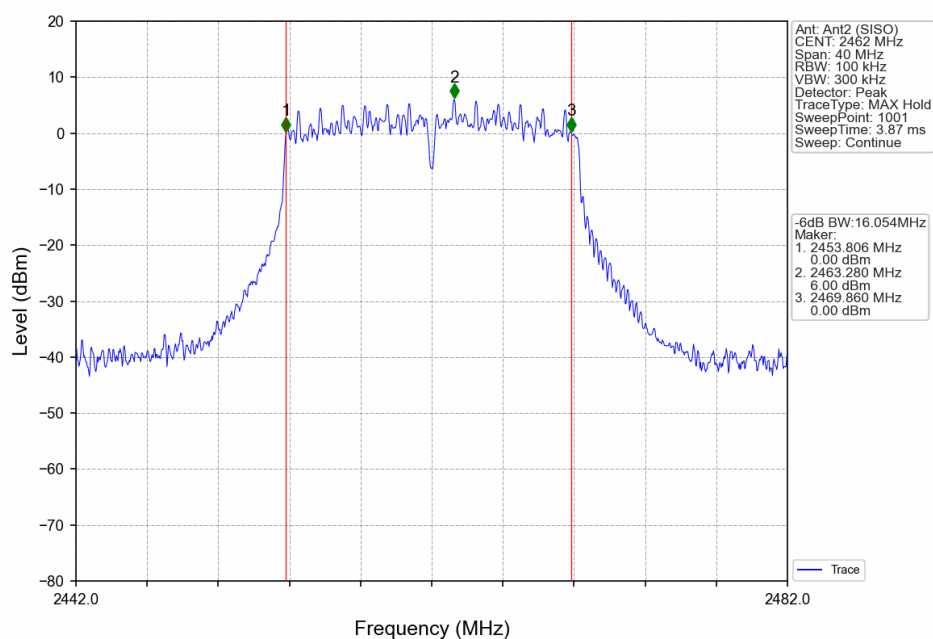
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



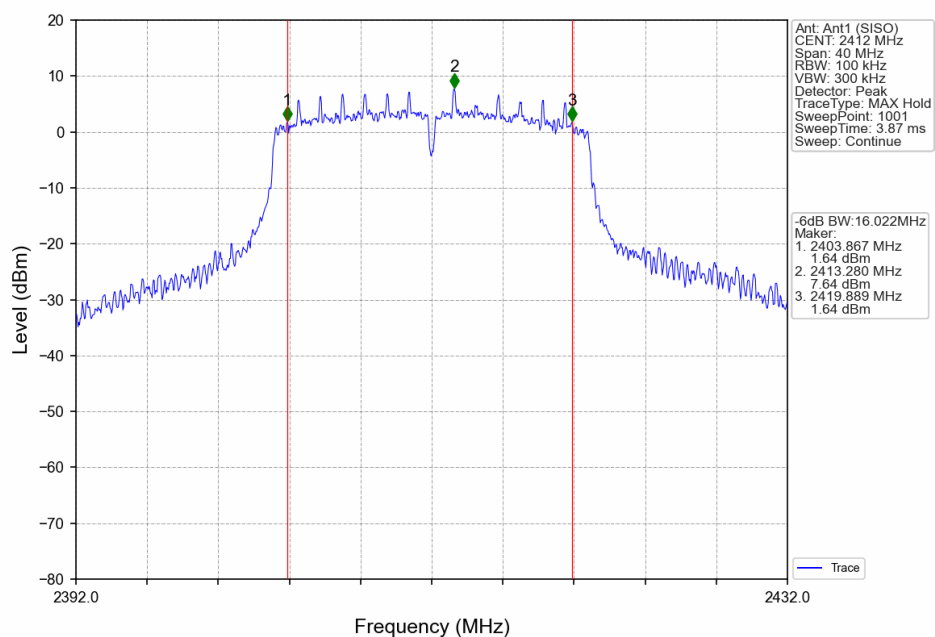
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



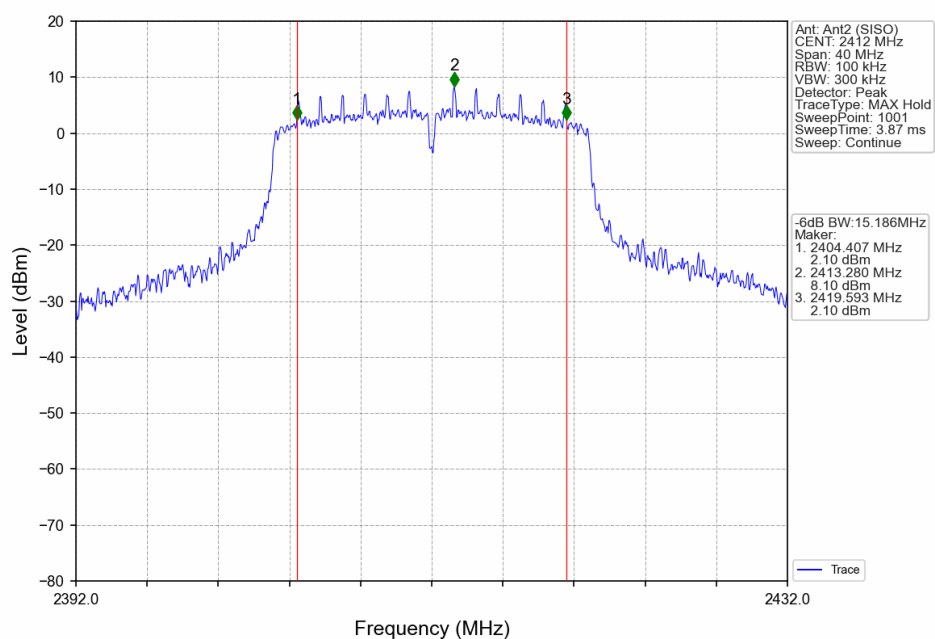
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



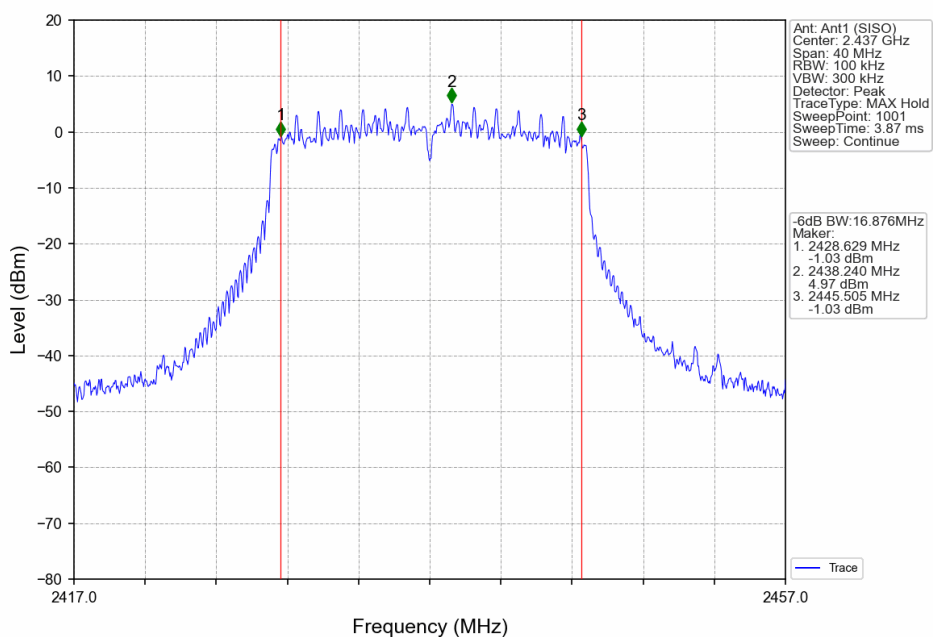
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



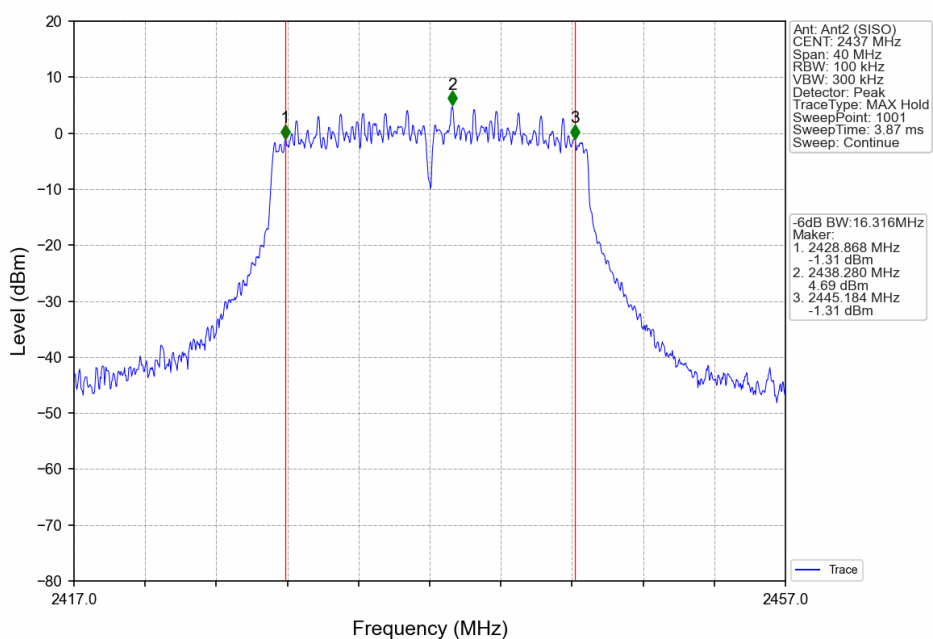
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



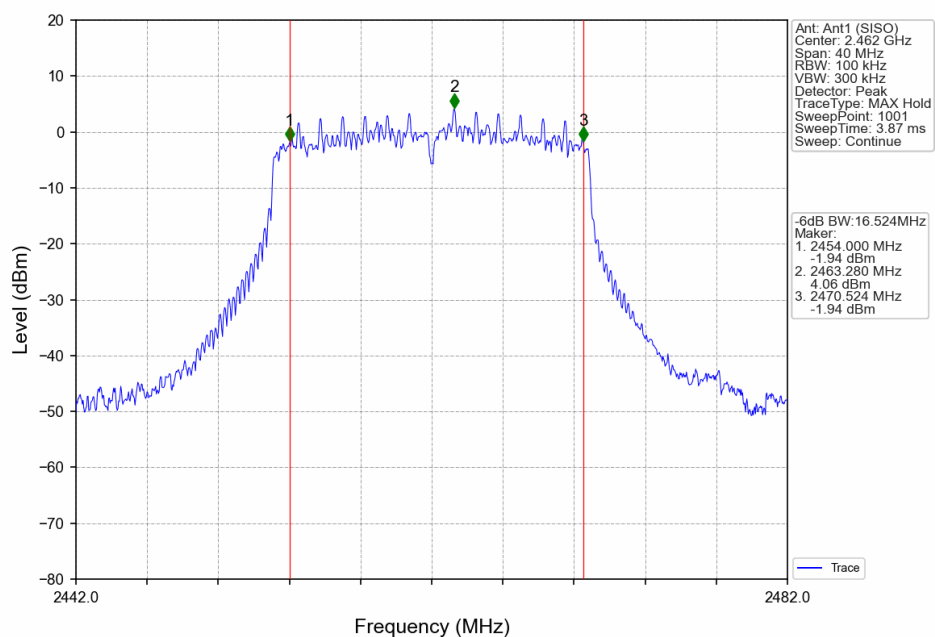
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



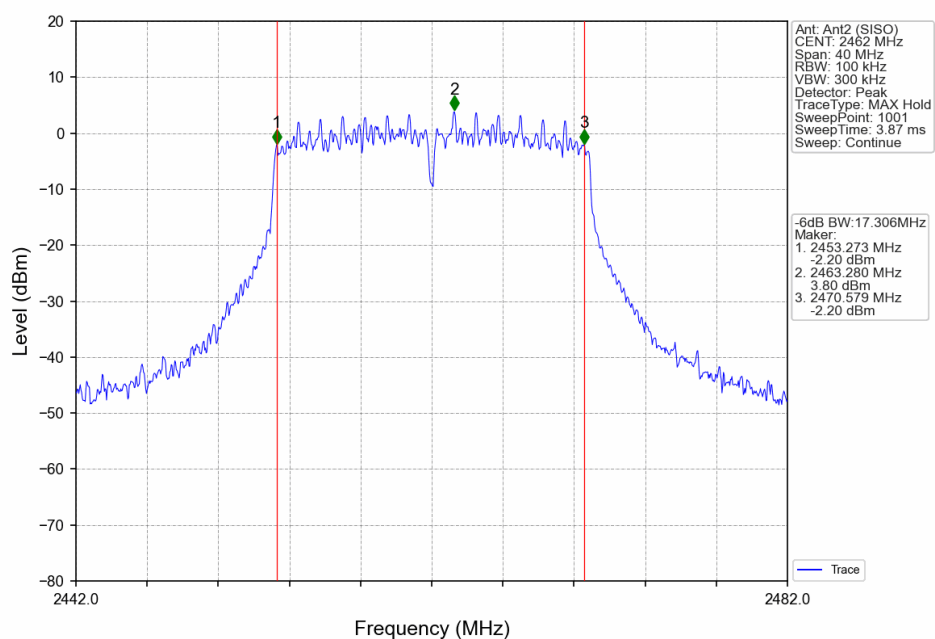
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



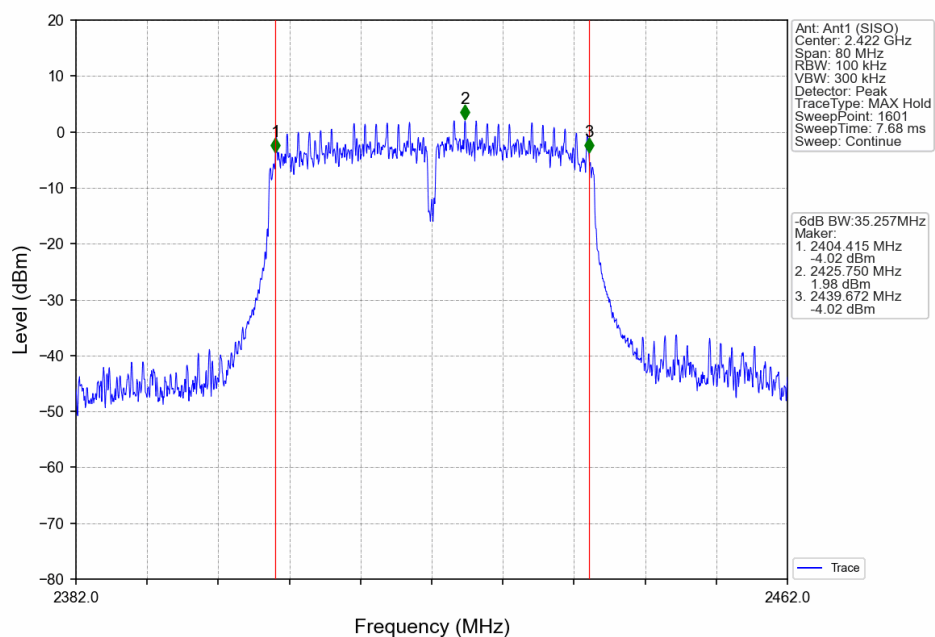
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



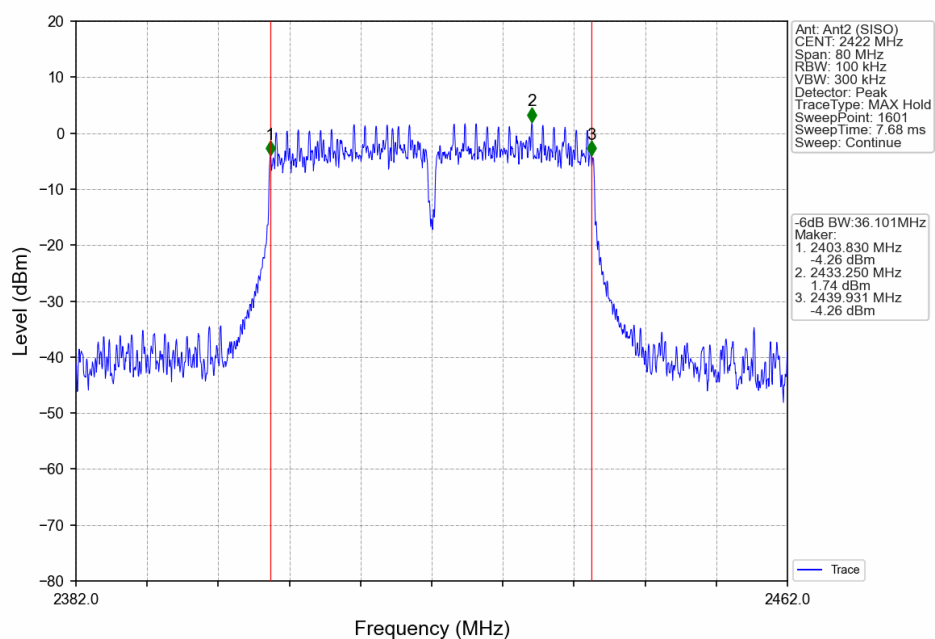
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



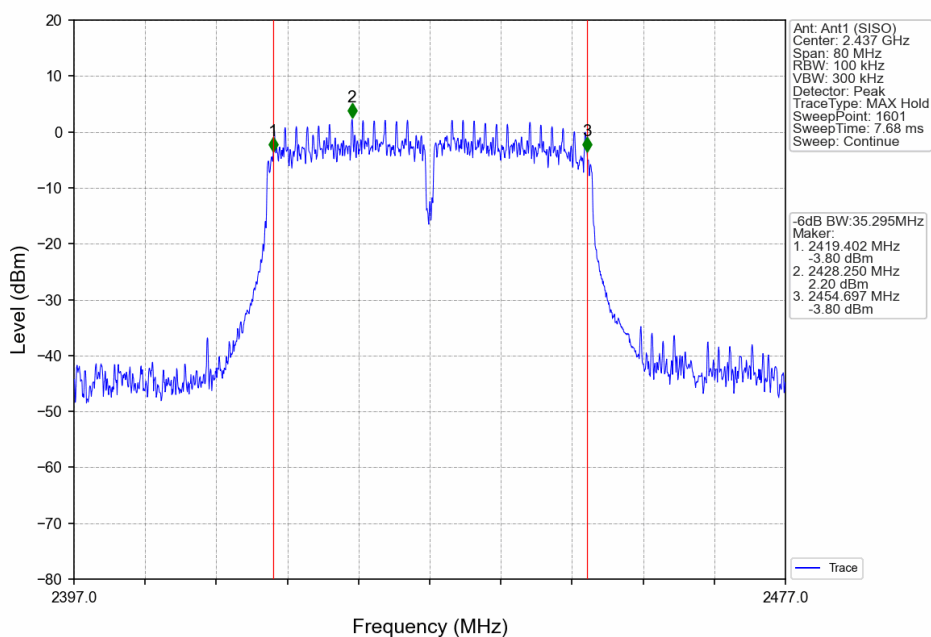
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



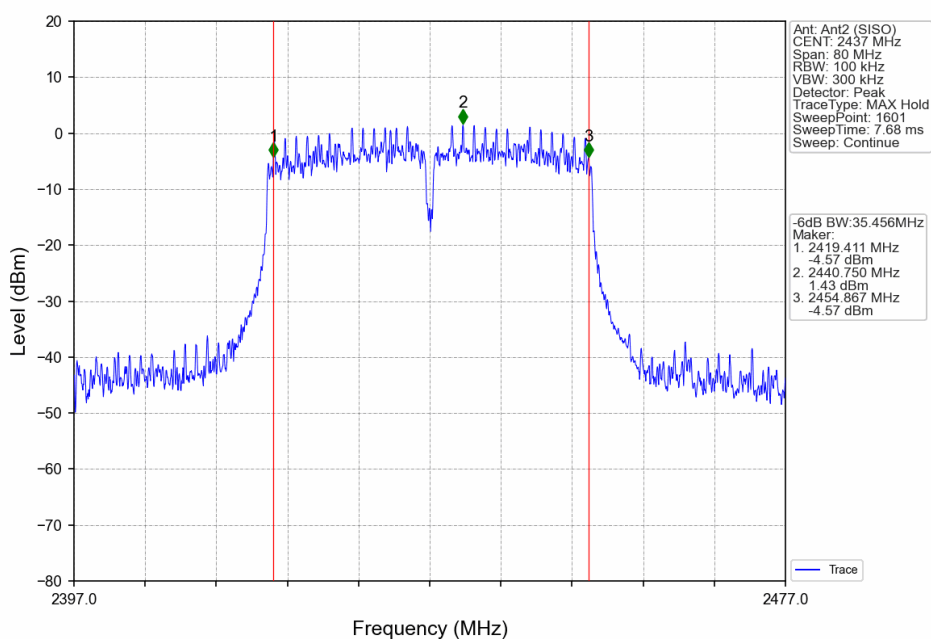
802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



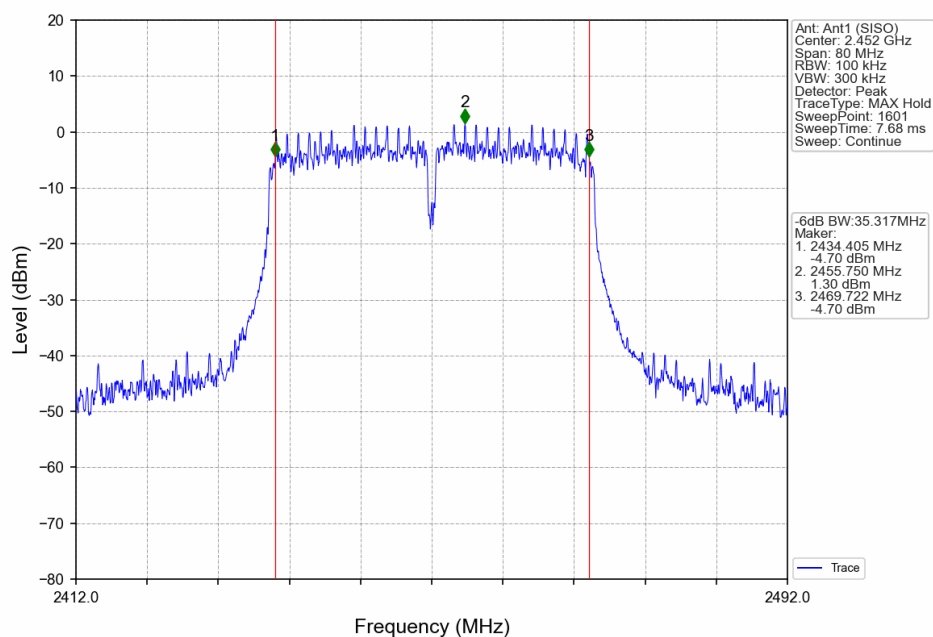
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



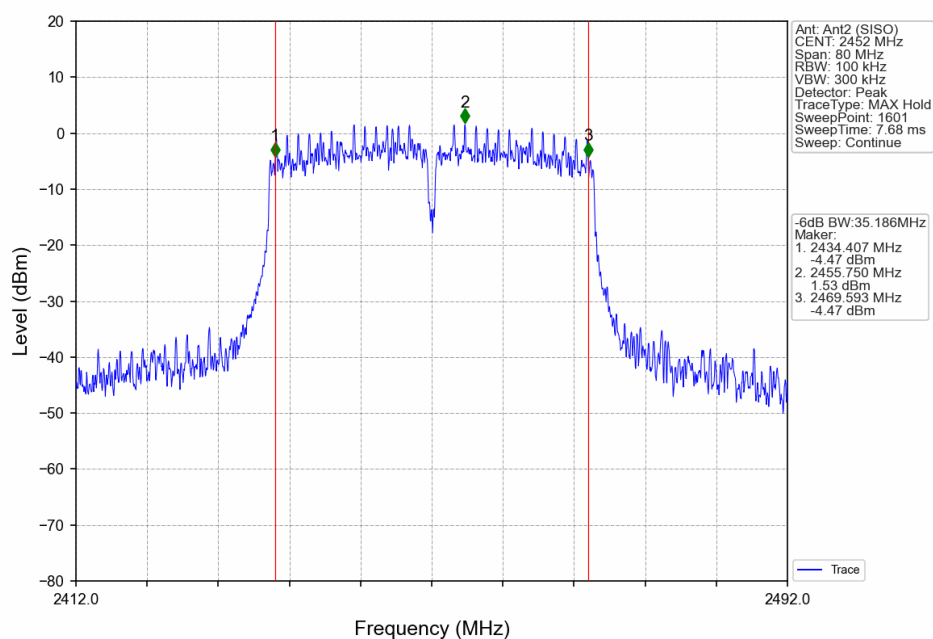
802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



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	24.69	23.69	/	<=30	Pass
		2437	24.96	23.86	/	<=30	Pass
		2462	24.24	23.38	/	<=30	Pass
802.11g	SISO	2412	23.96	22.55	/	<=30	Pass
		2437	24.16	22.34	/	<=30	Pass
		2462	23.36	21.85	/	<=30	Pass
802.11n (HT20)	SISO	2412	24.30	20.62	/	<=30	Pass
		2437	23.28	22.31	/	<=30	Pass
		2462	22.21	21.80	/	<=30	Pass
802.11n (HT40)	SISO	2422	23.15	22.03	/	<=30	Pass
		2437	23.51	22.17	/	<=30	Pass
		2452	22.72	21.46	/	<=30	Pass
802.11n (HT20)	MIMO	2412	23.07	22.27	25.69	<=30	Pass
		2437	23.19	22.14	25.70	<=30	Pass
		2462	22.17	21.30	24.76	<=30	Pass
802.11n (HT40)	MIMO	2422	23.02	22.25	25.66	<=30	Pass
		2437	23.56	22.27	25.97	<=30	Pass
		2452	22.91	21.76	25.38	<=30	Pass
Note1: Antenna Gain: Ant1: 1.91dBi; Ant2: 1.71dBi							

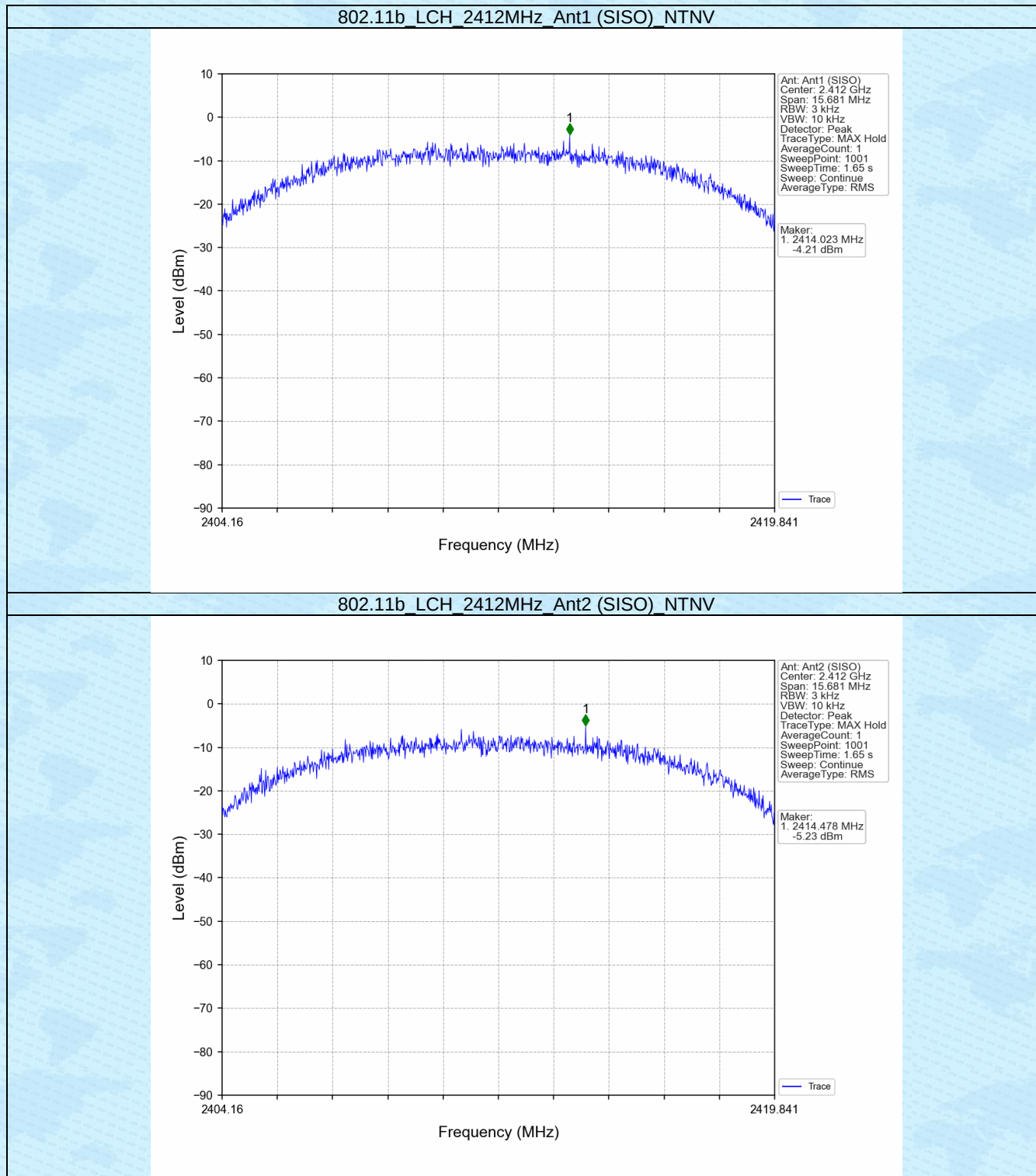
4. Maximum Power Spectral Density

4.1 PSD

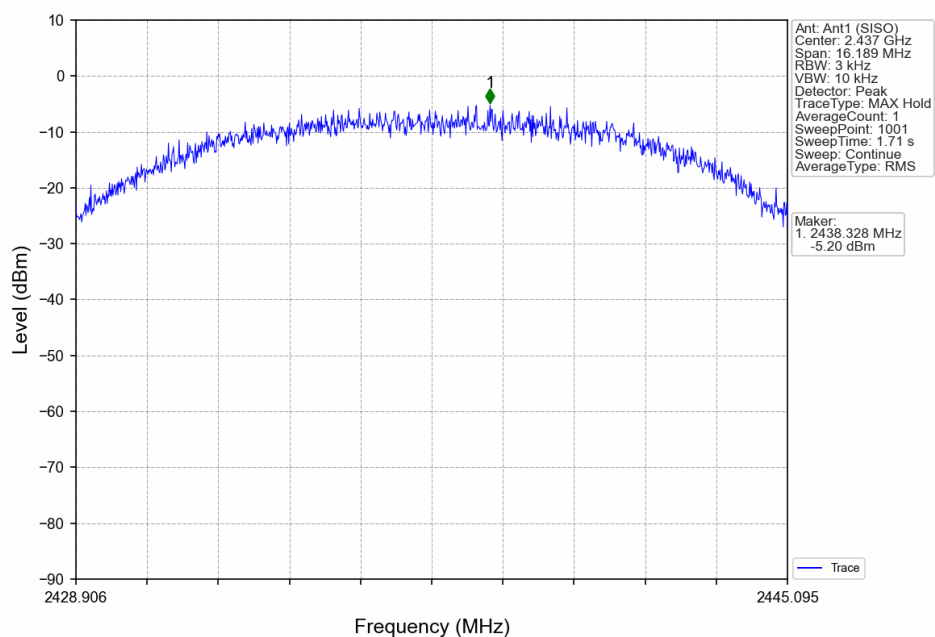
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-4.21	-5.23	/	<=8	Pass
		2437	-5.20	-6.64	/	<=8	Pass
		2462	-5.93	-7.09	/	<=8	Pass
802.11g	SISO	2412	-5.32	-6.86	/	<=8	Pass
		2437	-6.00	-8.14	/	<=8	Pass
		2462	-7.55	-7.82	/	<=8	Pass
802.11n (HT20)	SISO	2412	-4.71	-11.24	/	<=8	Pass
		2437	-10.66	-11.52	/	<=8	Pass
		2462	-12.52	-12.08	/	<=8	Pass
802.11n (HT40)	SISO	2422	-14.97	-16.19	/	<=8	Pass
		2437	-14.86	-16.00	/	<=8	Pass
		2452	-15.76	-16.64	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-11.41	-12.29	-8.81	<=8	Pass
		2437	-11.65	-12.09	-8.94	<=8	Pass
		2462	-12.27	-12.12	-9.19	<=8	Pass
802.11n (HT40)	MIMO	2422	-14.30	-15.41	-11.80	<=8	Pass
		2437	-14.61	-15.67	-12.27	<=8	Pass
		2452	-15.03	-15.95	-12.65	<=8	Pass
Note1: Antenna Gain: Ant1: 1.91dBi; Ant2: 1.71dBi; Note2: transmit signals are completely correlated, Directional gain=10 x log[(1.91/20+ 1.71/20)2/2]=4.82dBi							

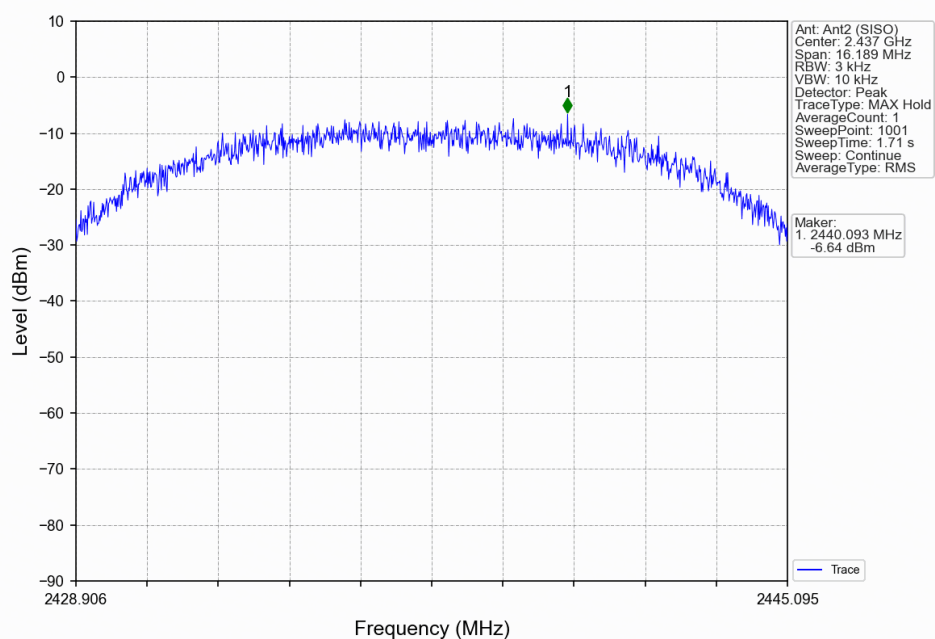
4.1.2 Test Graph



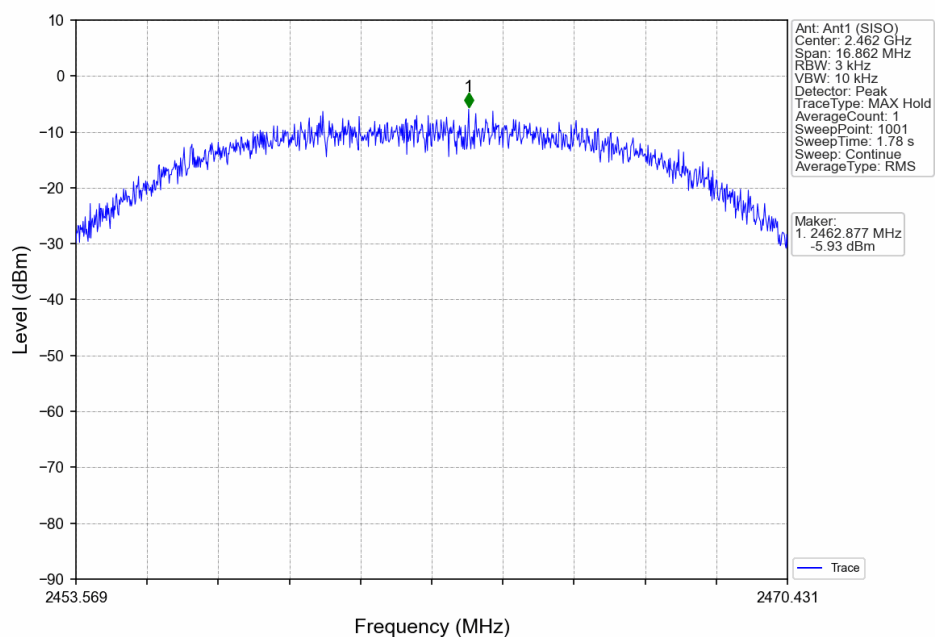
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



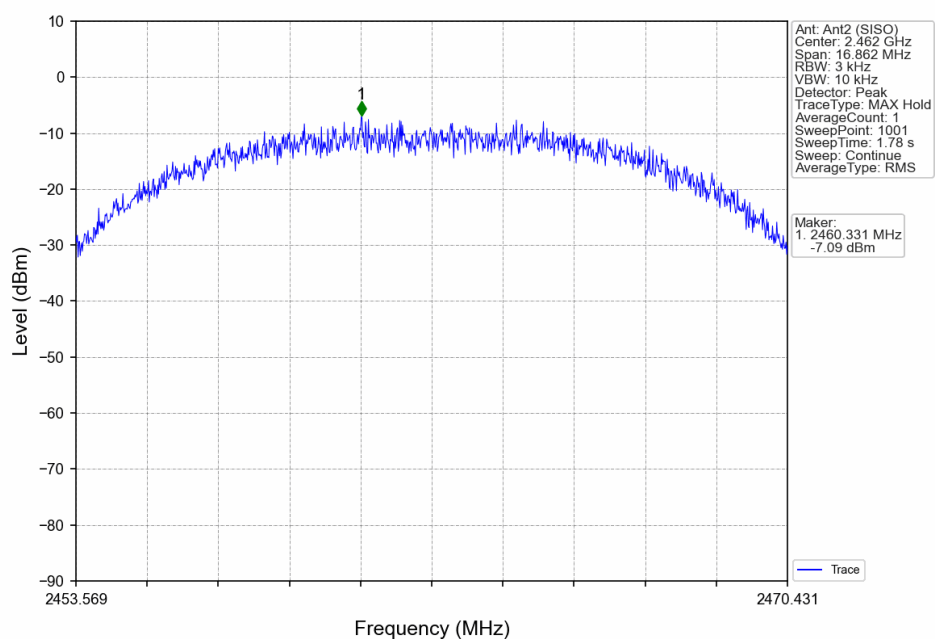
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



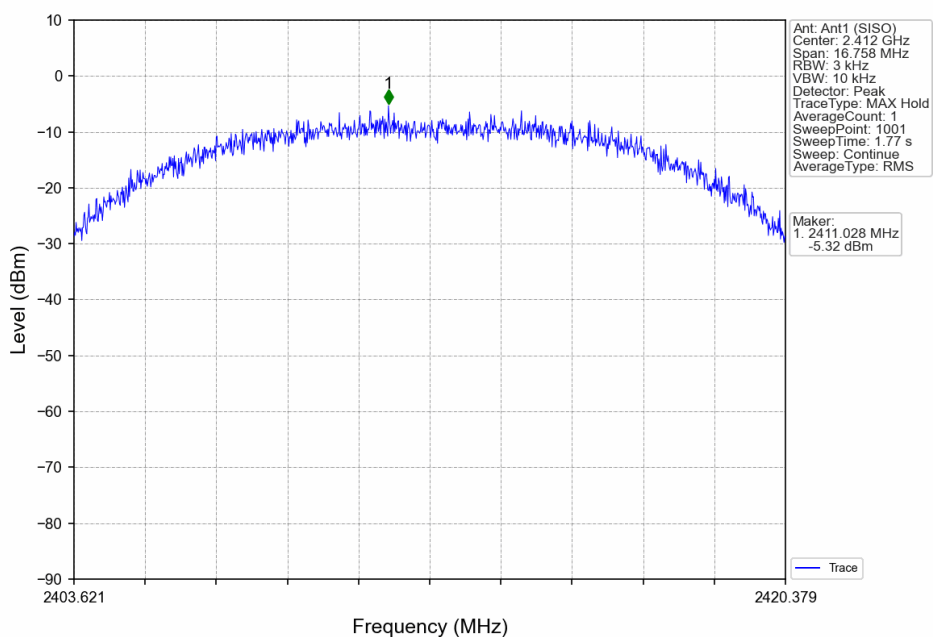
802.11b HCH 2462MHz_Ant1 (SISO) NTN



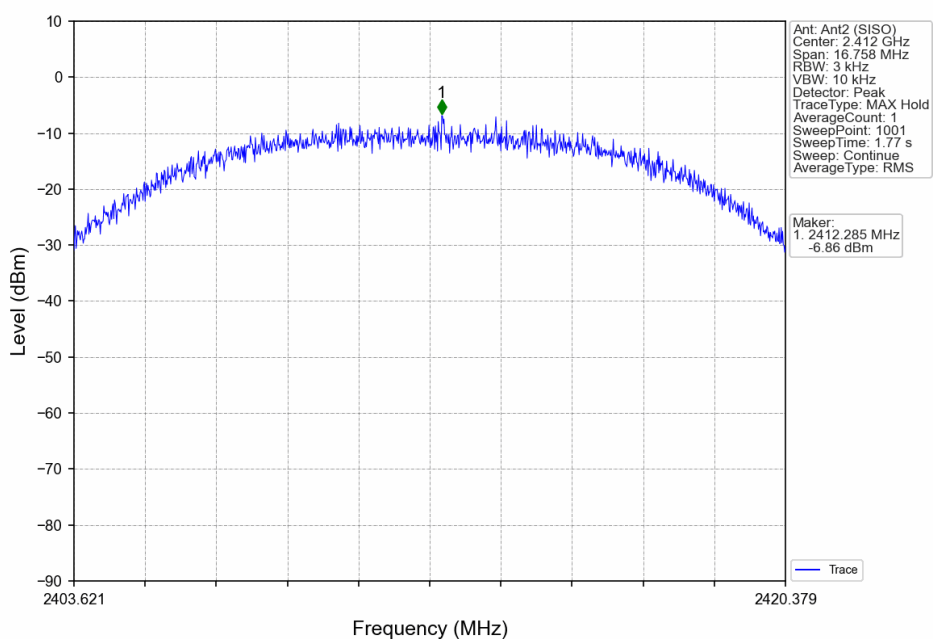
802.11b HCH 2462MHz_Ant2 (SISO) NTN



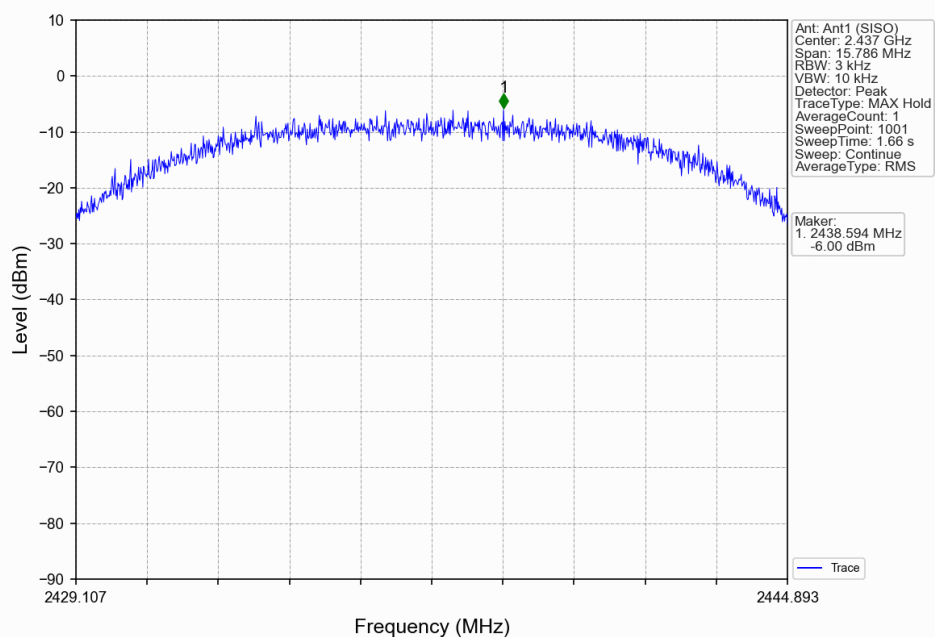
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



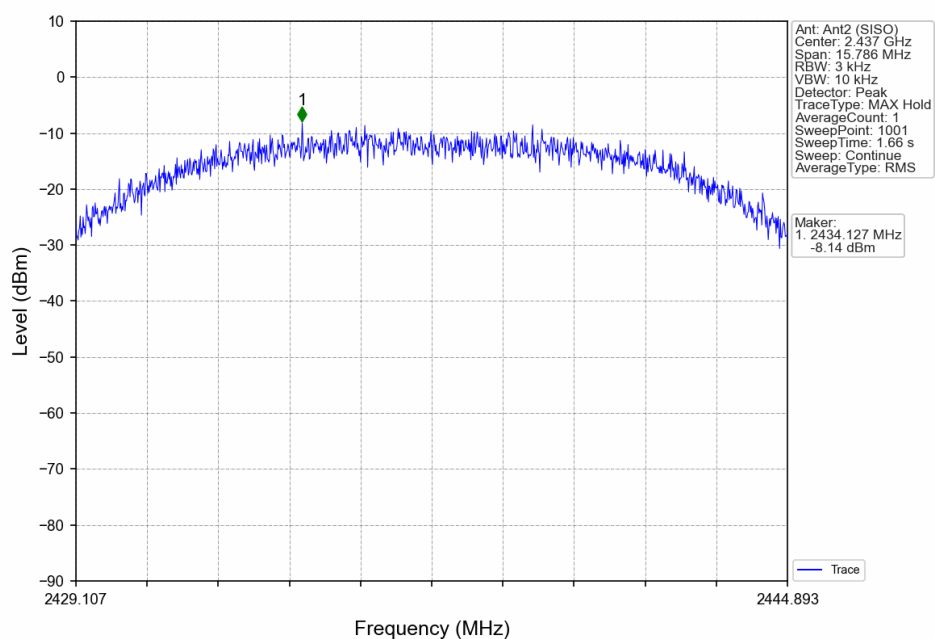
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



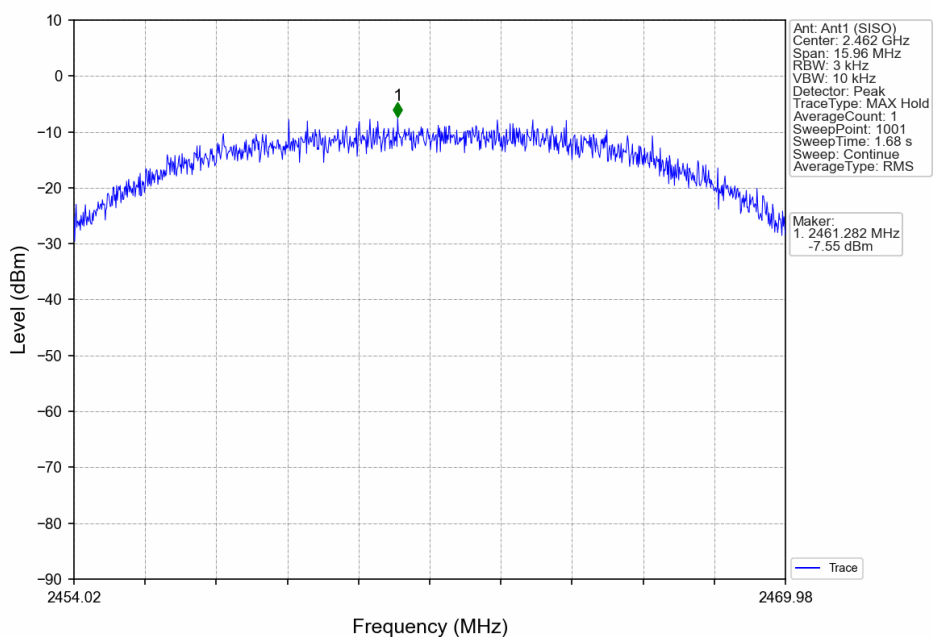
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



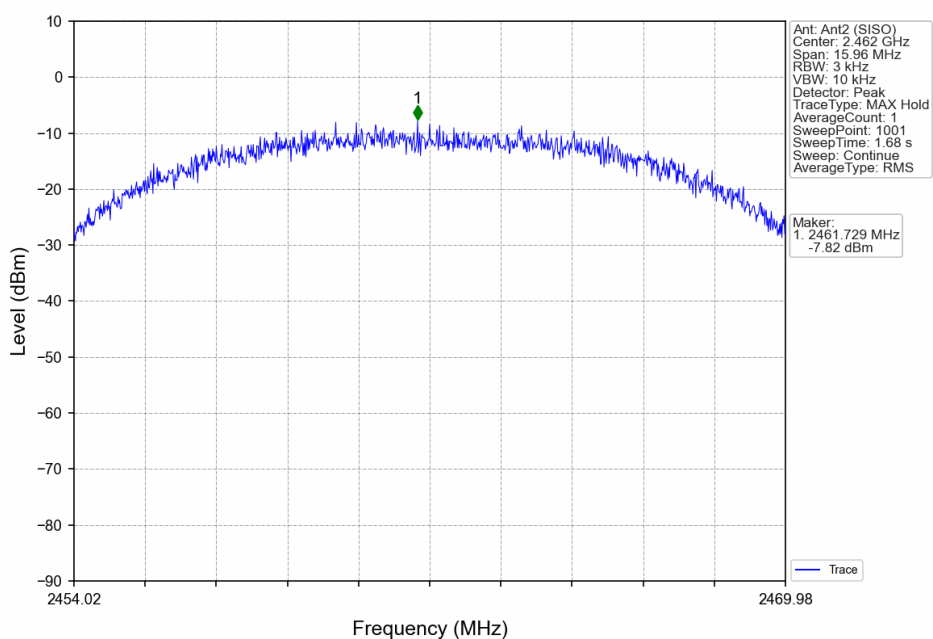
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



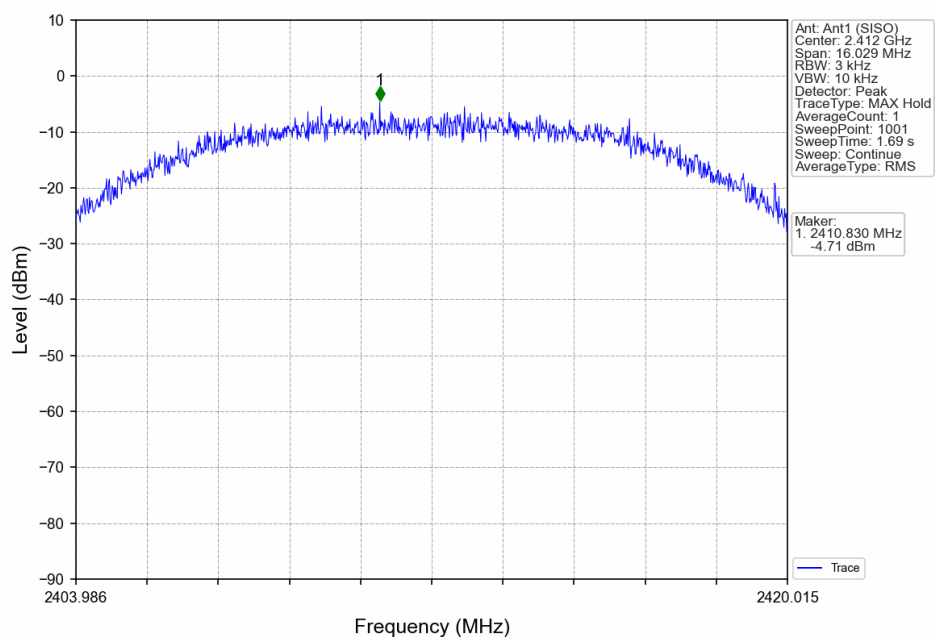
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



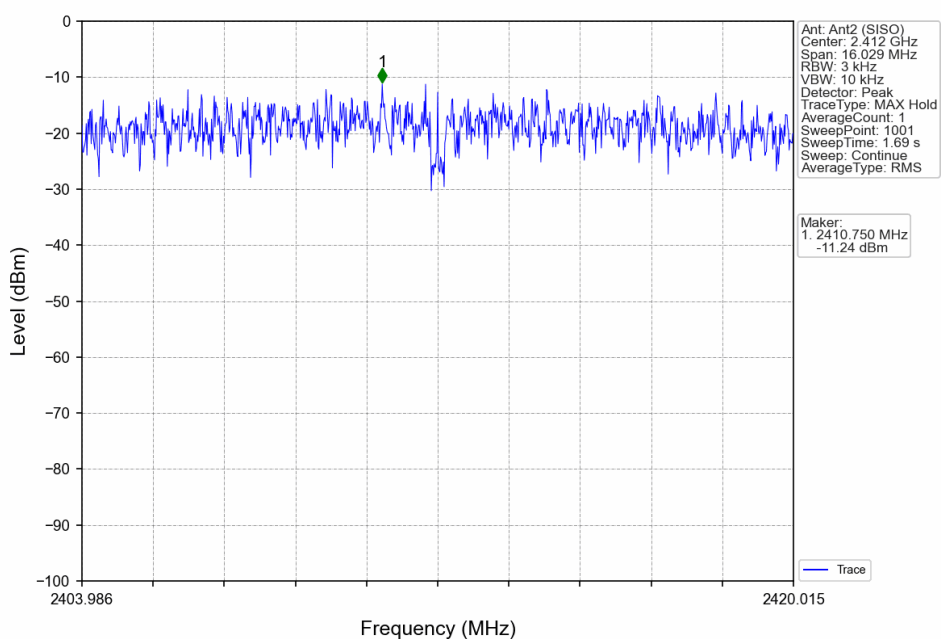
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



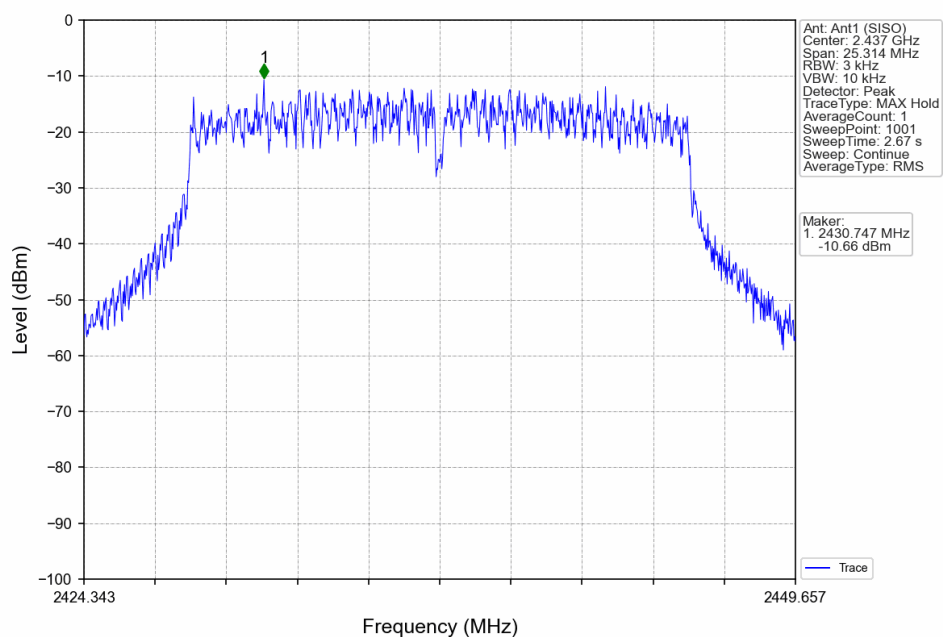
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



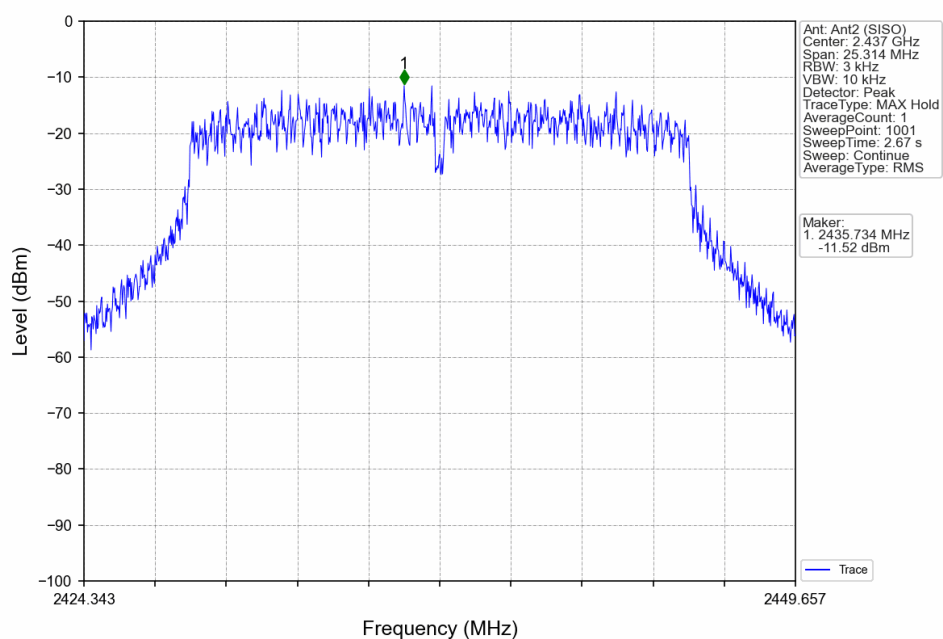
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



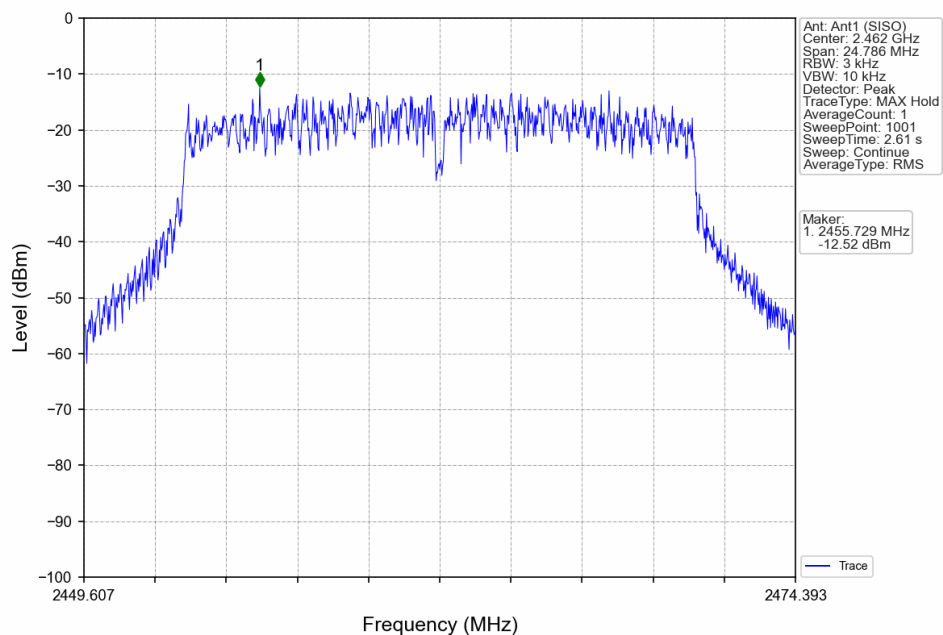
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



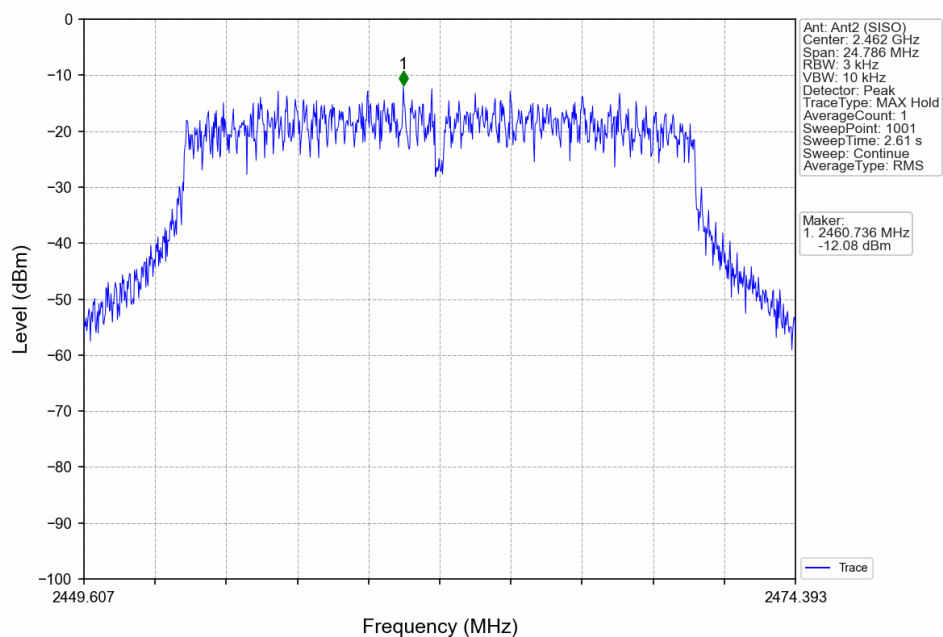
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



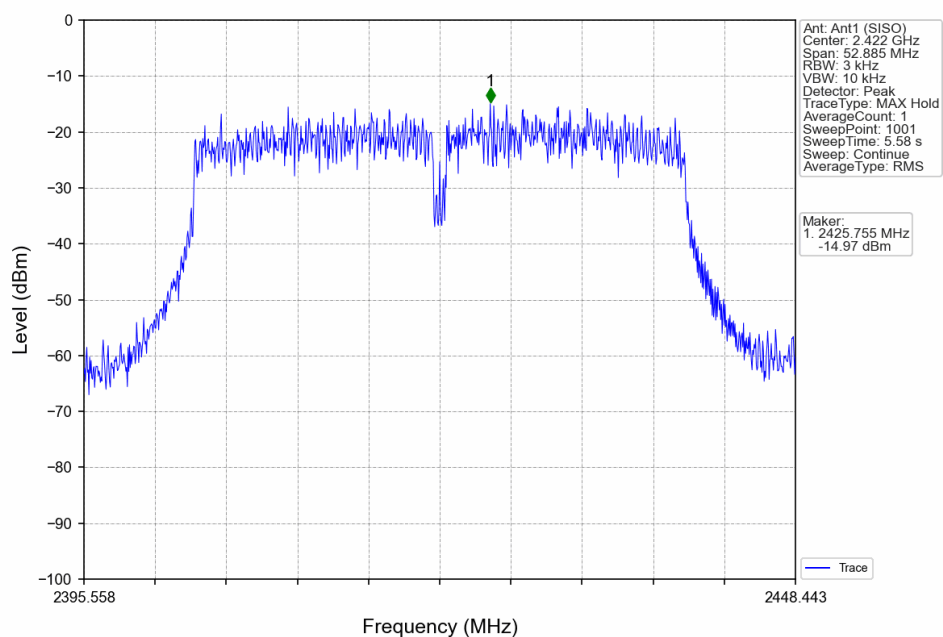
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



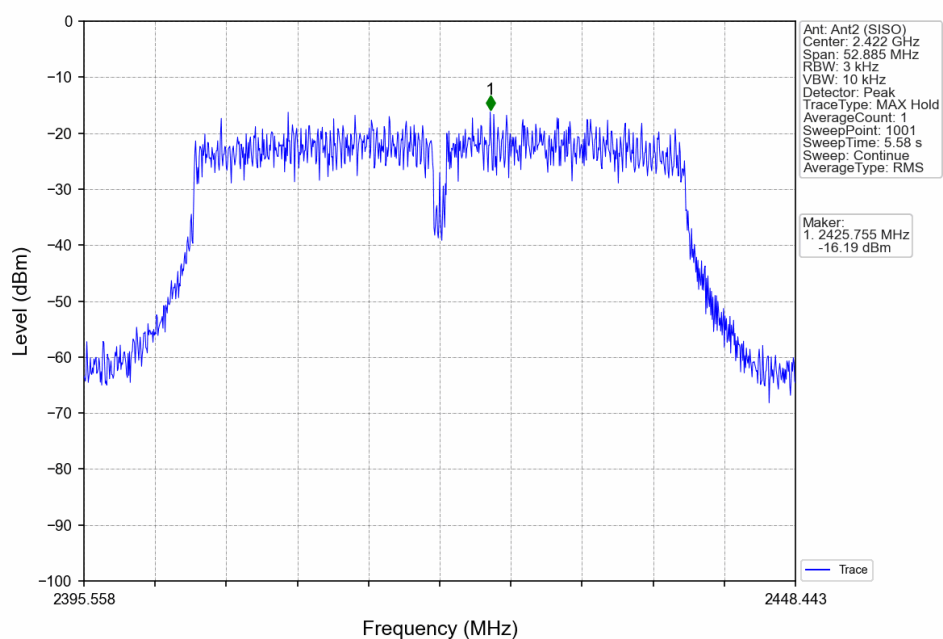
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



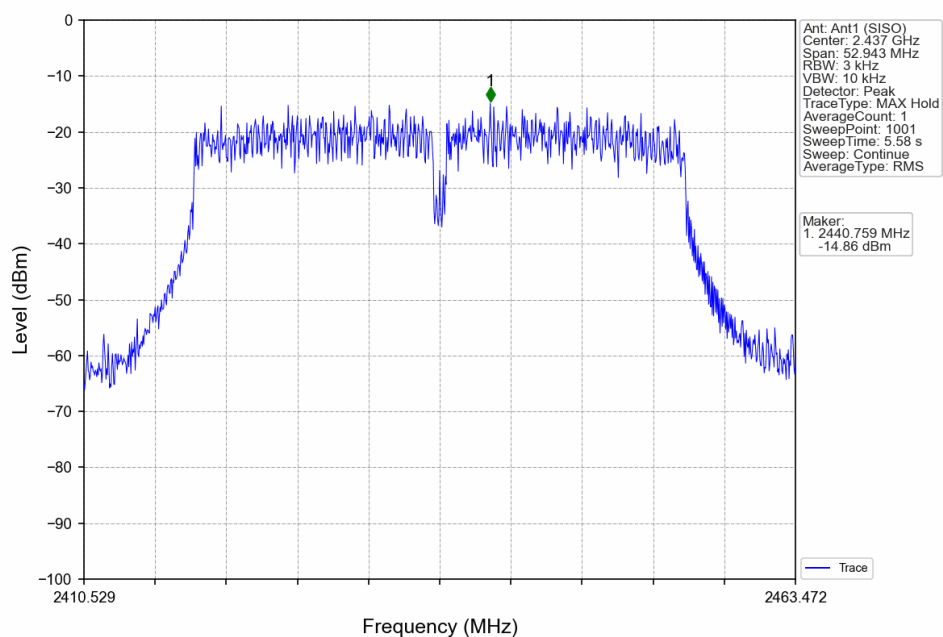
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



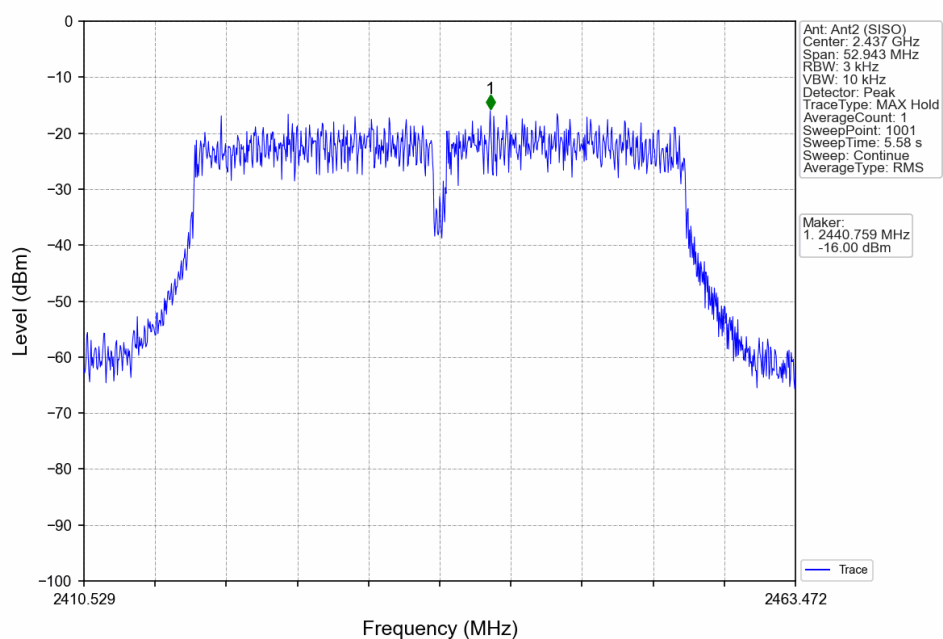
802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



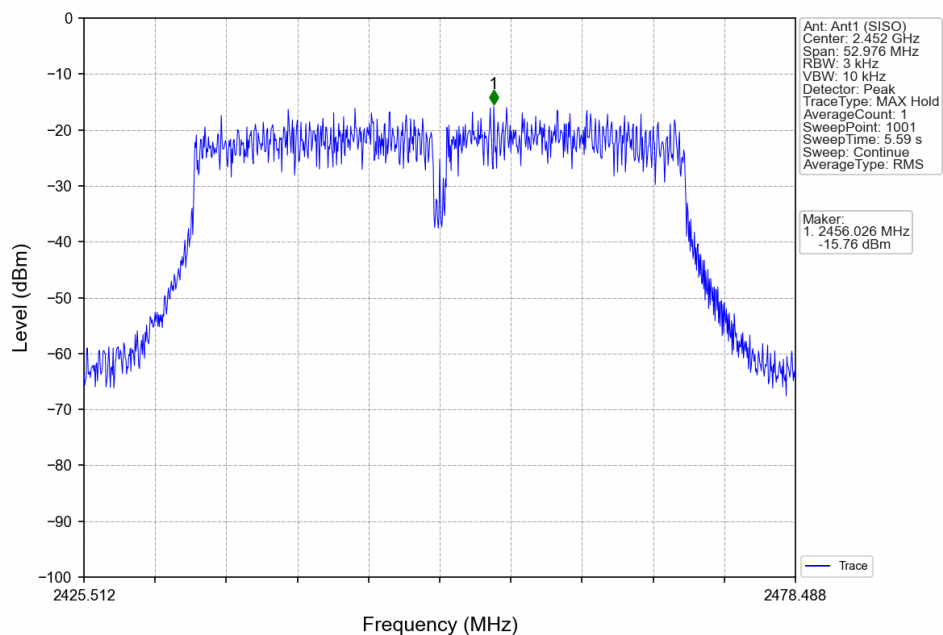
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



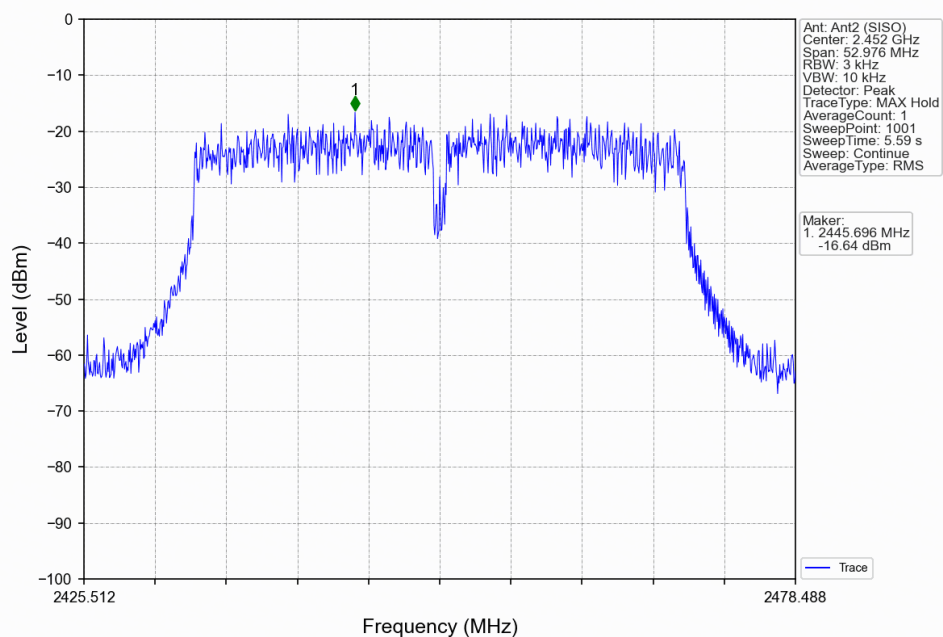
802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



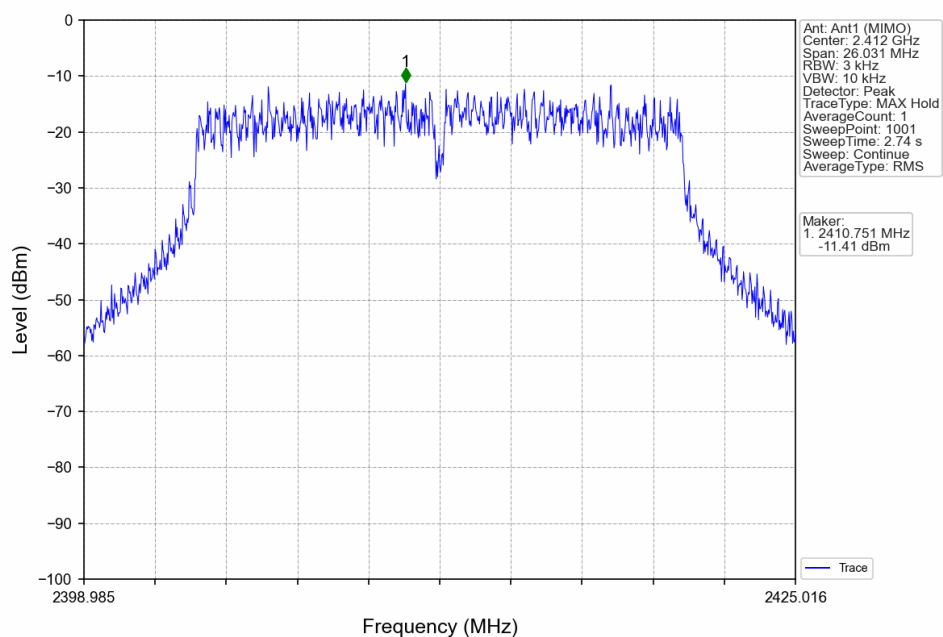
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



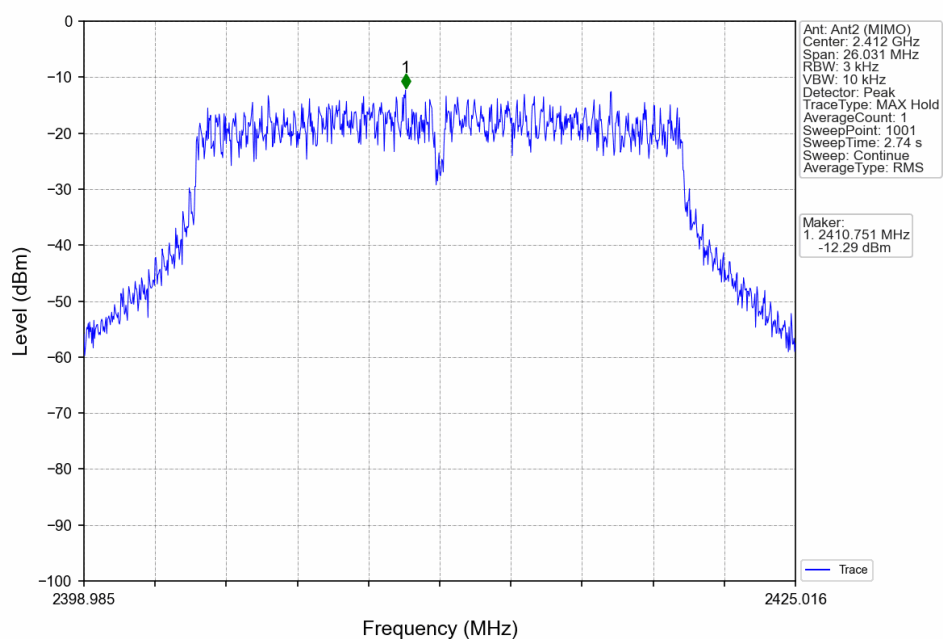
802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



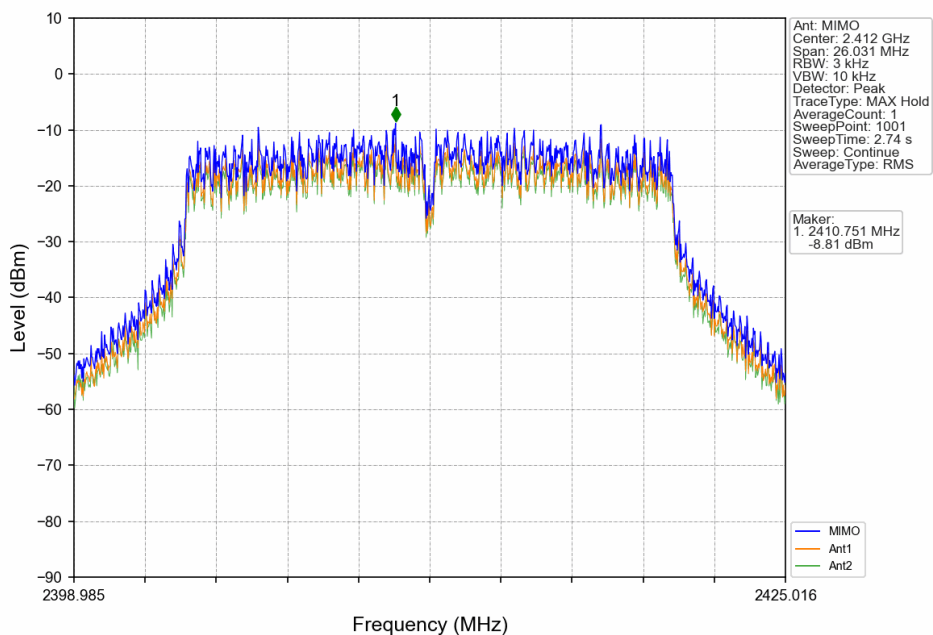
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



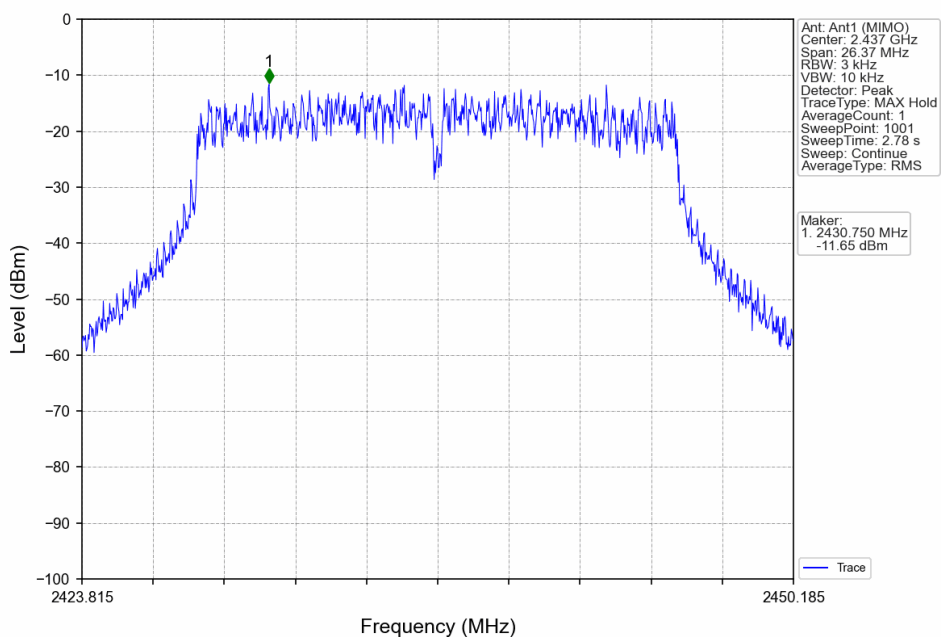
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



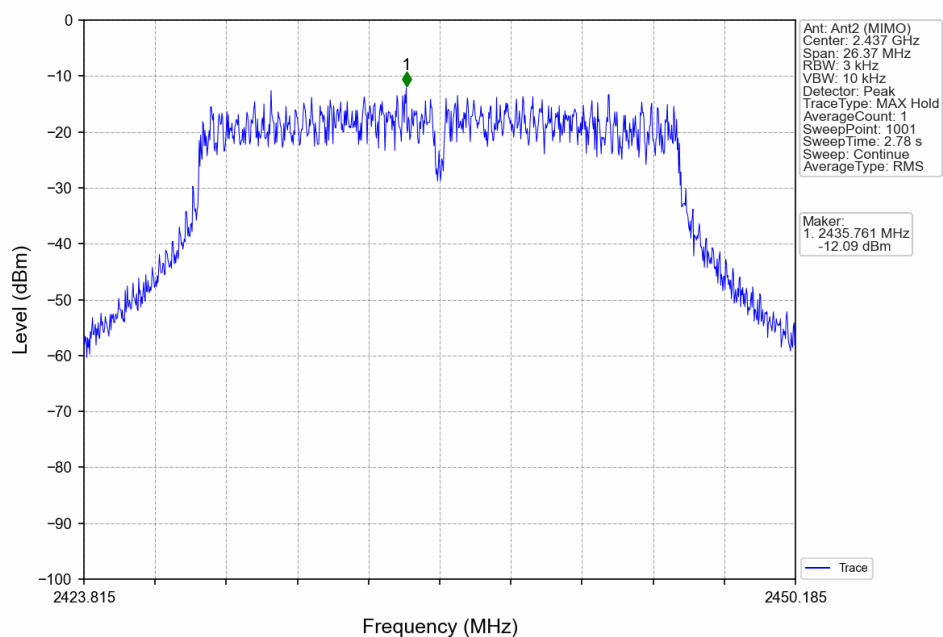
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



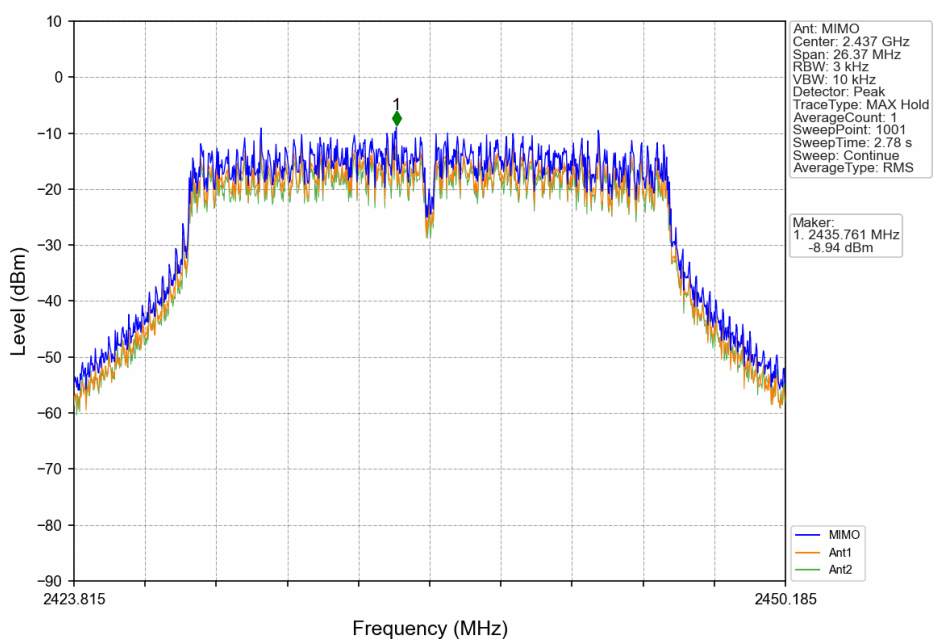
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



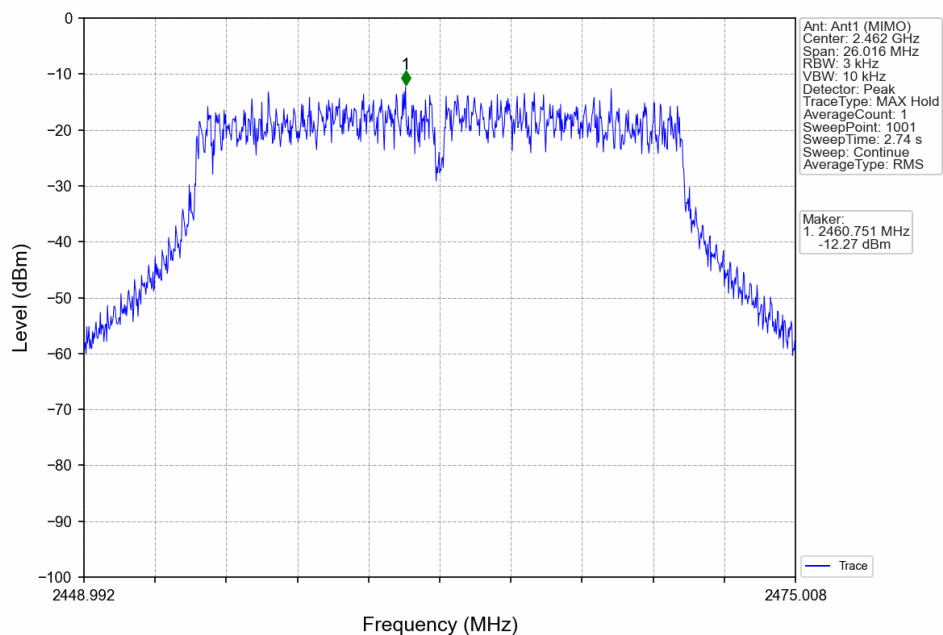
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



802.11n(HT20) HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO)_NTNV

