

Appendix for 15.247

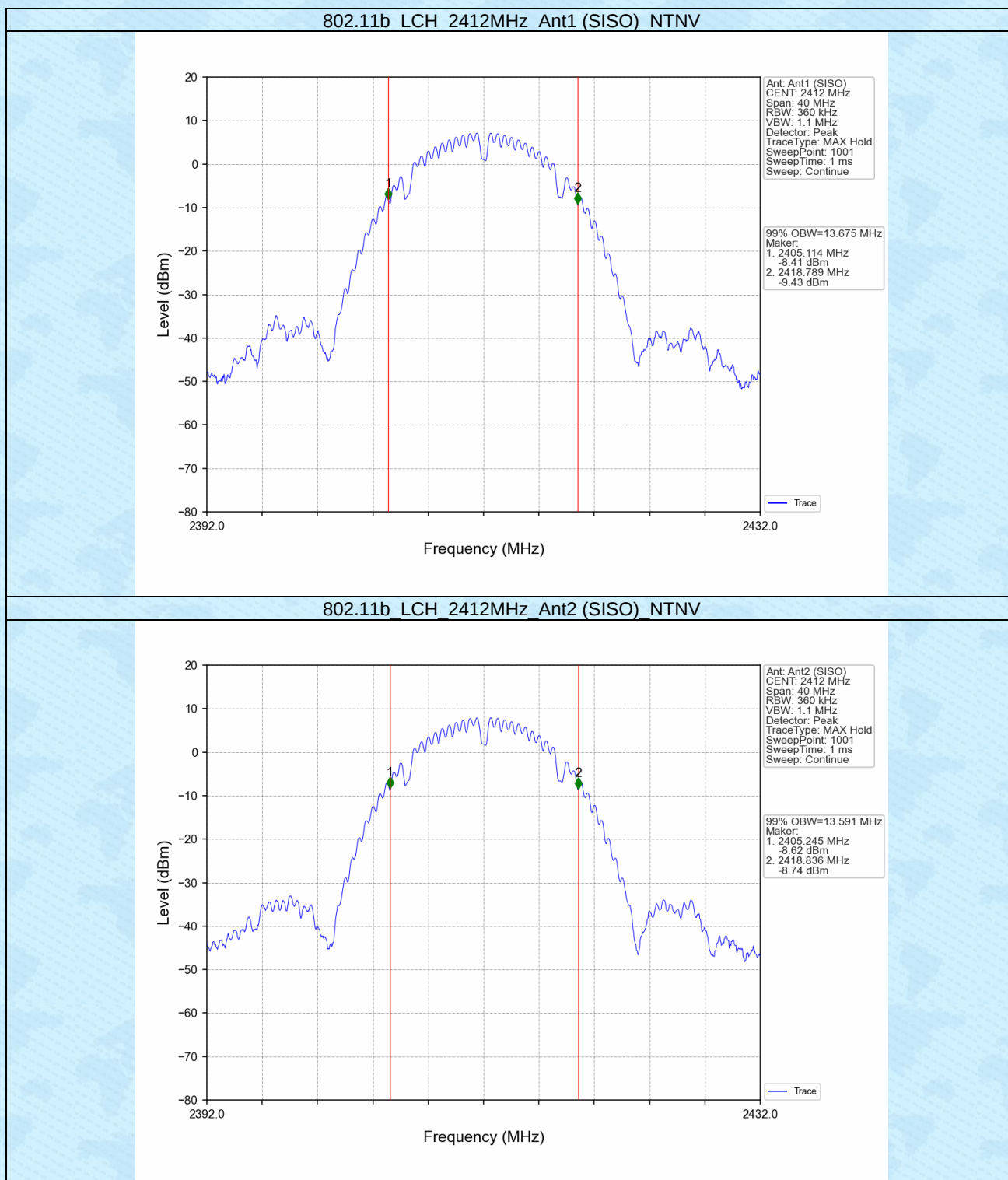
1. Bandwidth

1.1 OBW

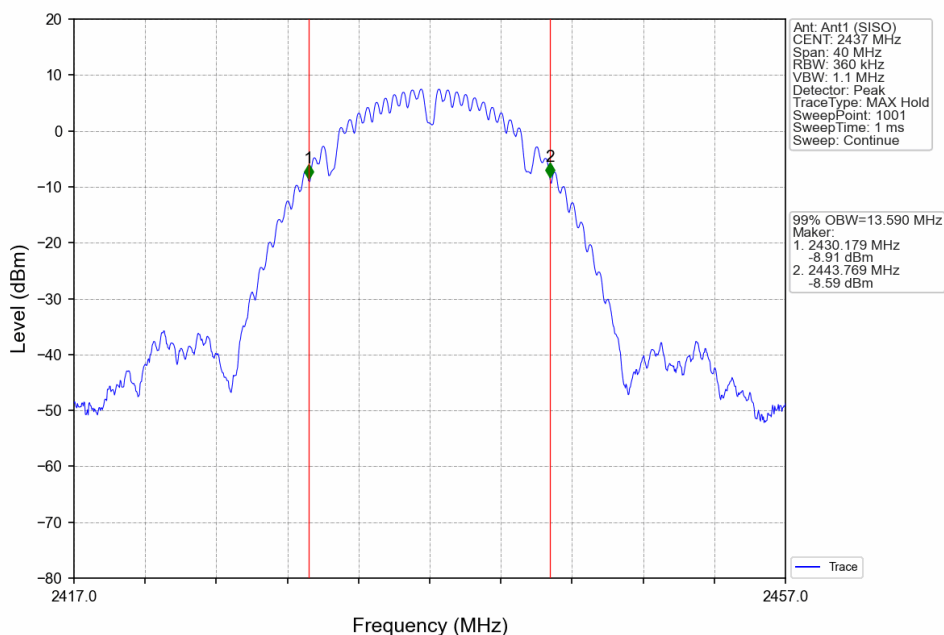
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.675	Pass
			2	13.591	Pass
		2437	1	13.590	Pass
			2	13.701	Pass
		2462	1	13.771	Pass
			2	14.746	Pass
802.11g	SISO	2412	1	17.377	Pass
			2	16.878	Pass
		2437	1	17.312	Pass
			2	16.880	Pass
		2462	1	17.361	Pass
			2	16.871	Pass
802.11n (HT20)	MIMO	2412	1	18.126	Pass
			2	17.714	Pass
		2437	1	18.077	Pass
			2	17.697	Pass
		2462	1	18.134	Pass
			2	17.716	Pass
802.11n (HT40)	MIMO	2422	1	36.416	Pass
			2	36.681	Pass
		2437	1	36.243	Pass
			2	36.683	Pass
		2452	1	36.382	Pass
			2	36.702	Pass

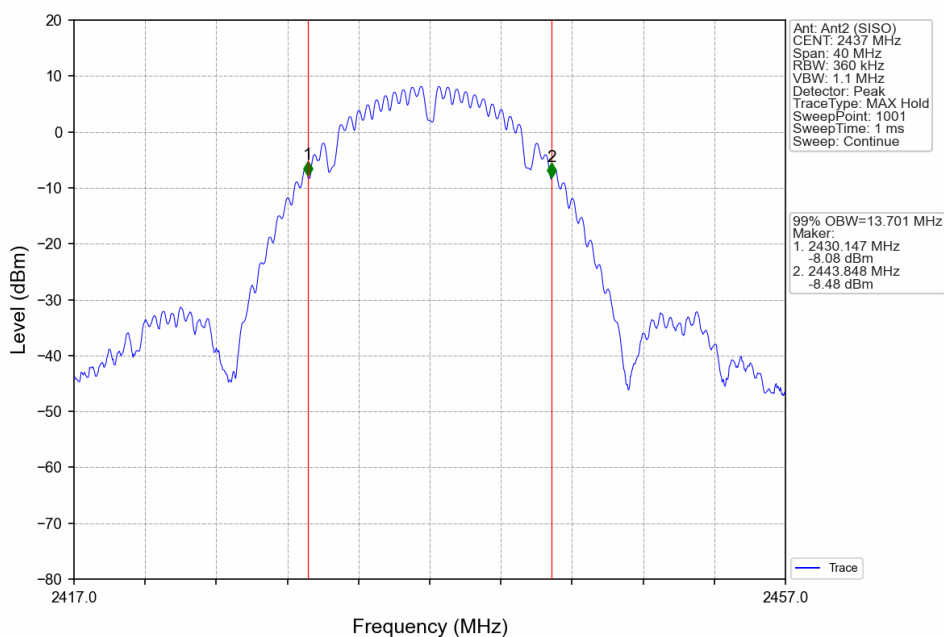
1.1.2 Test Graph



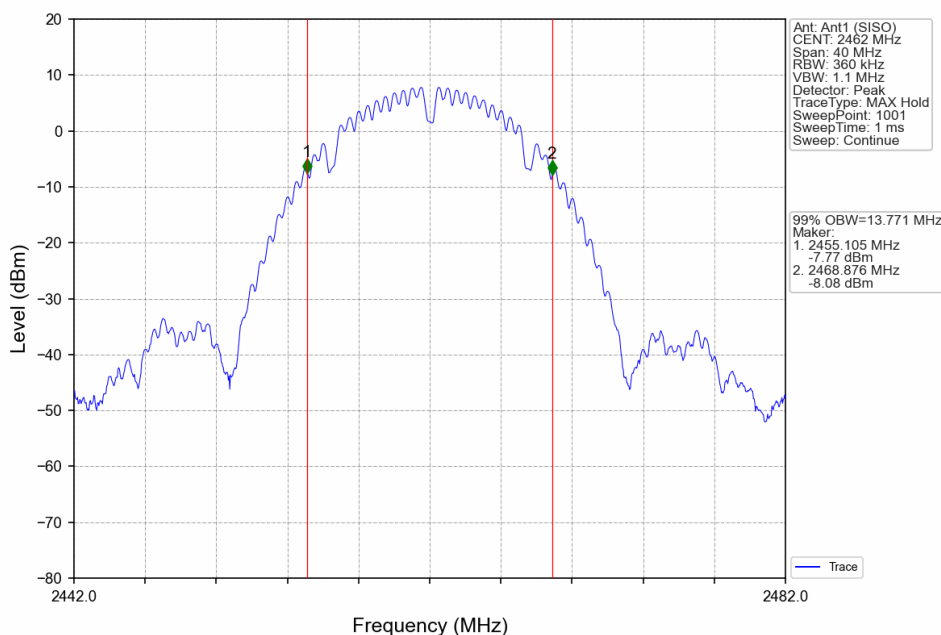
802.11b MCH 2437MHz Ant1 (SISO) NTNV



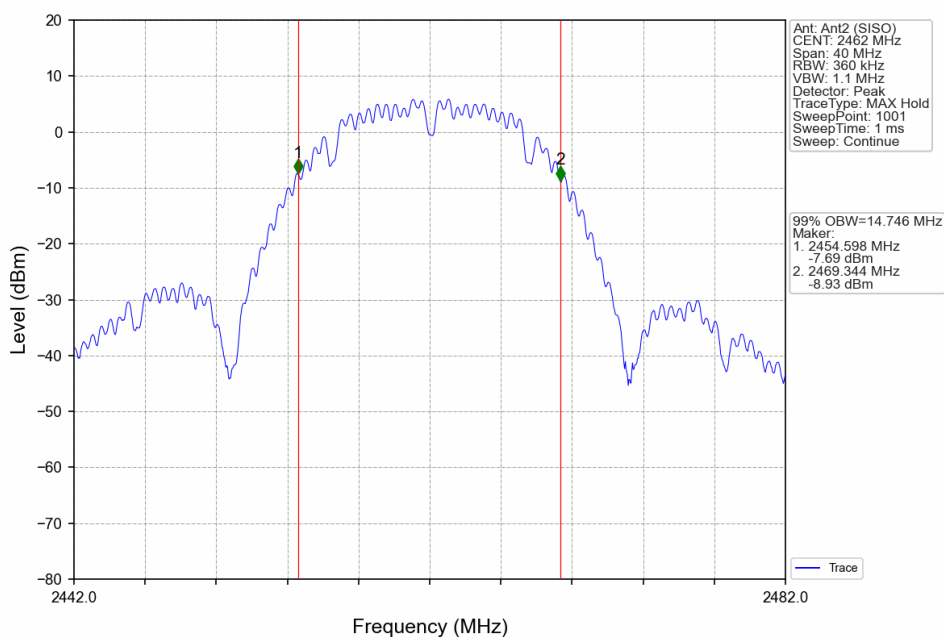
802.11b MCH 2437MHz Ant2 (SISO) NTNV



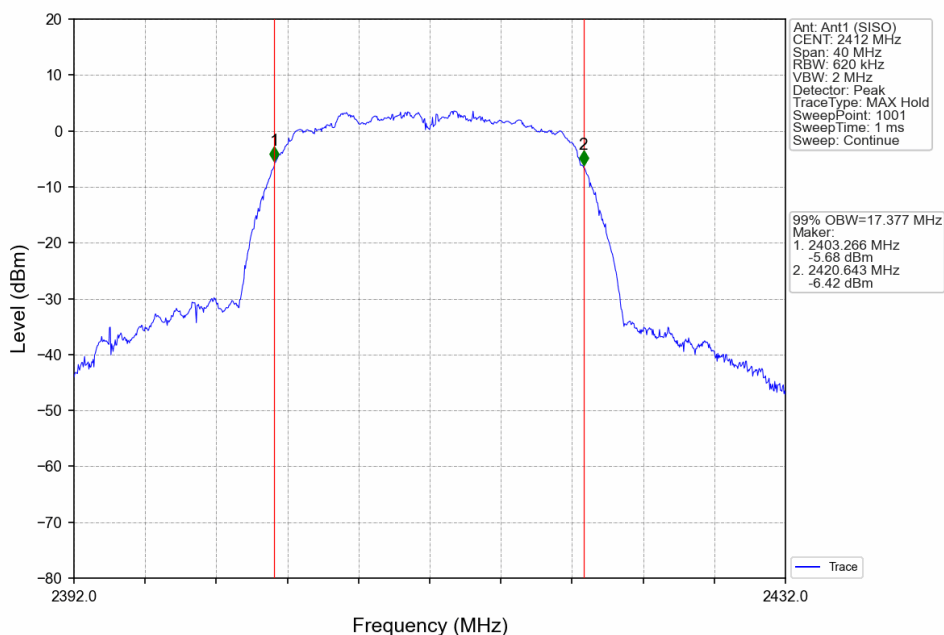
802.11b HCH 2462MHz Ant1 (SISO) NTN



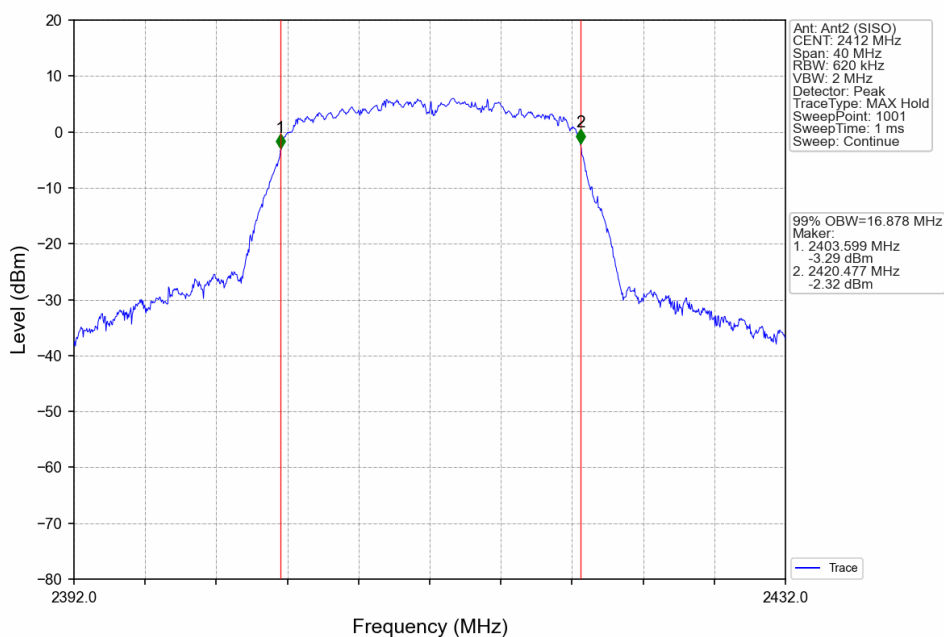
802.11b HCH 2462MHz Ant2 (SISO) NTN



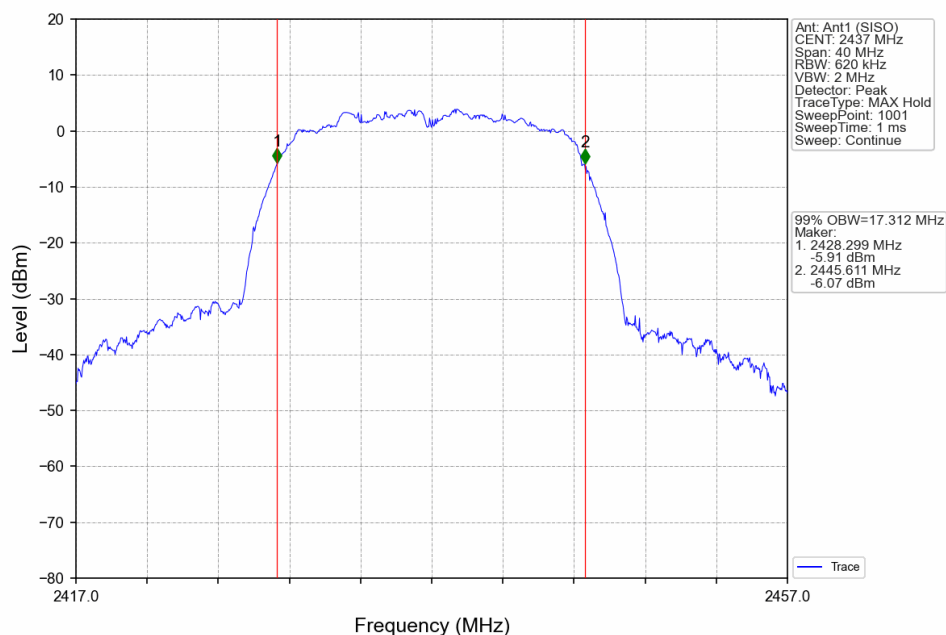
802.11g LCH 2412MHz Ant1 (SISO) NTN



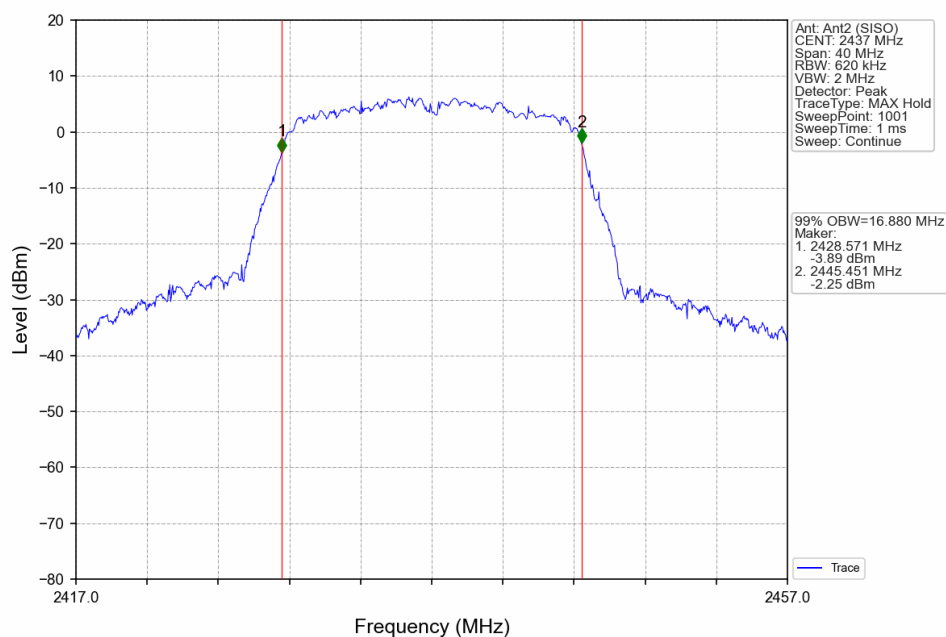
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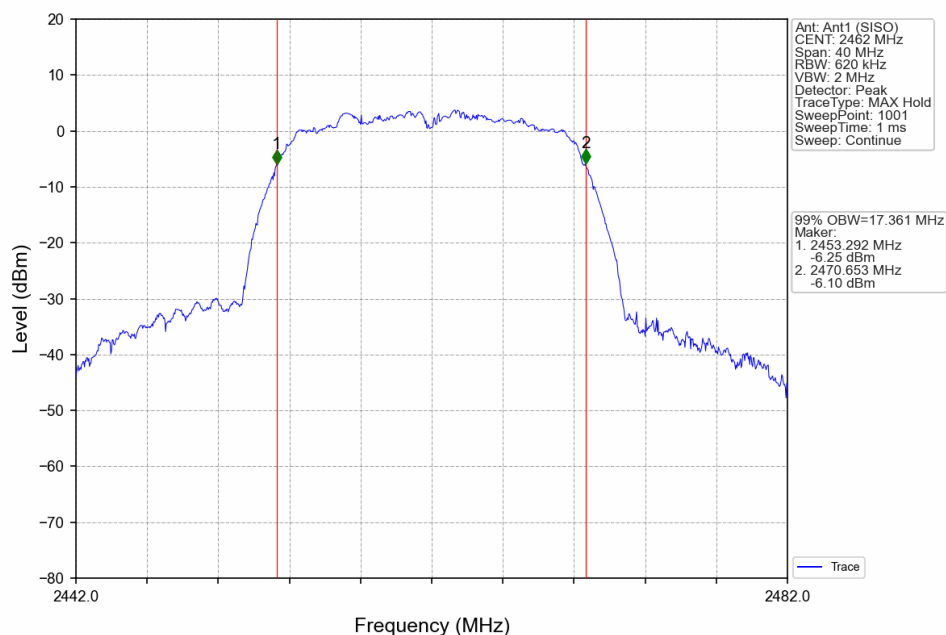
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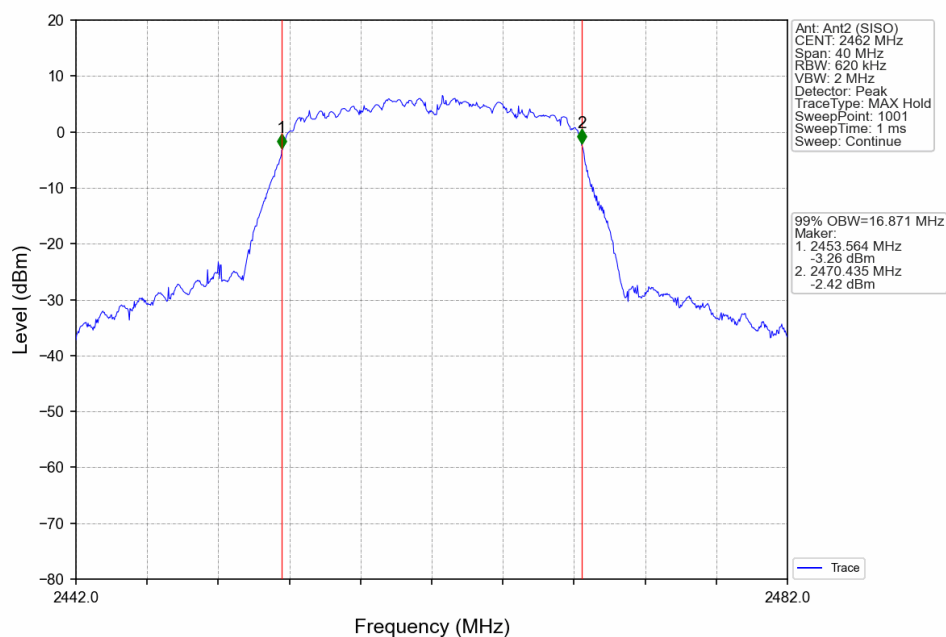
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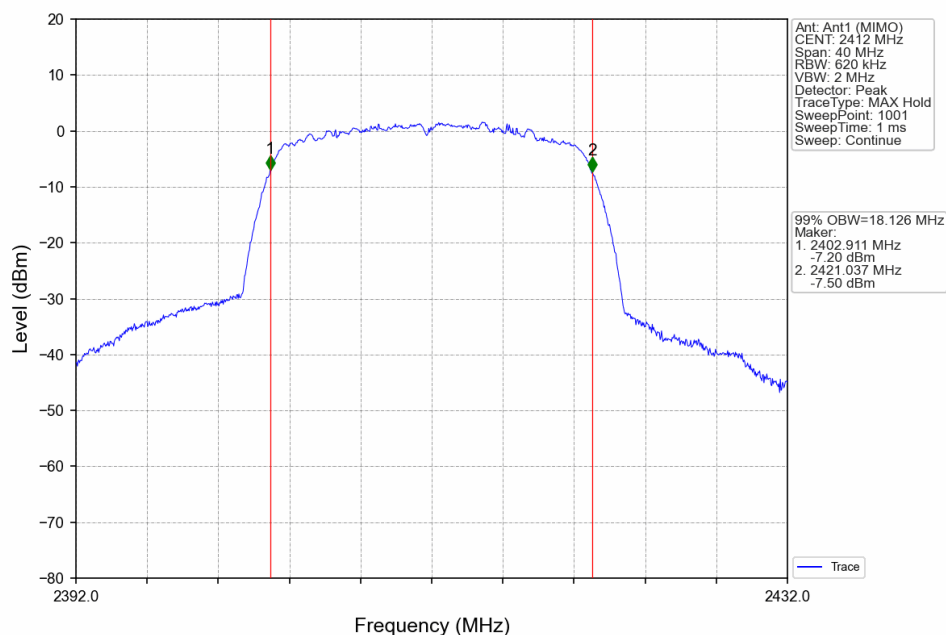
802.11g HCH 2462MHz Ant1 (SISO) NTNV



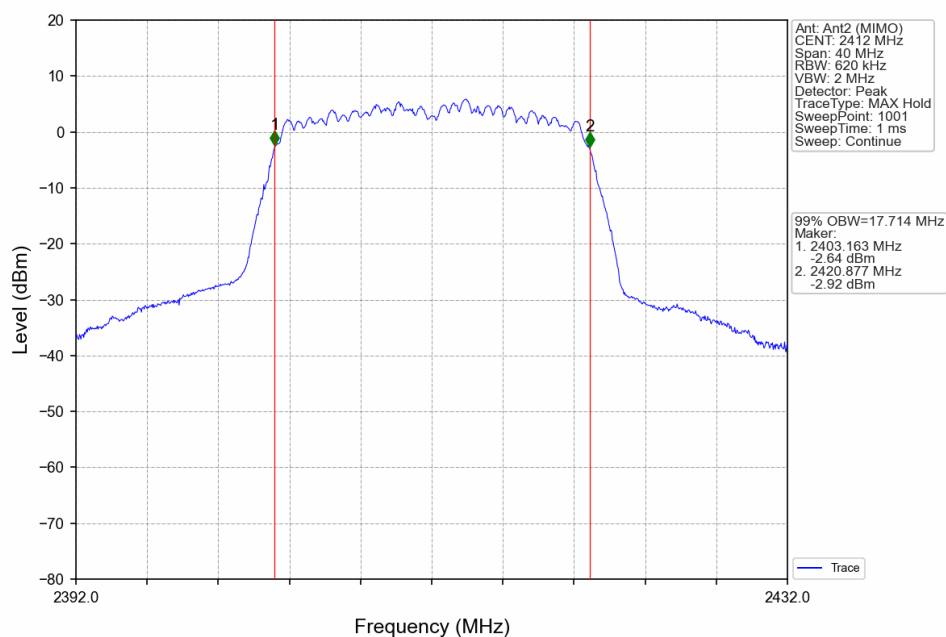
802.11g HCH 2462MHz Ant2 (SISO) NTNV



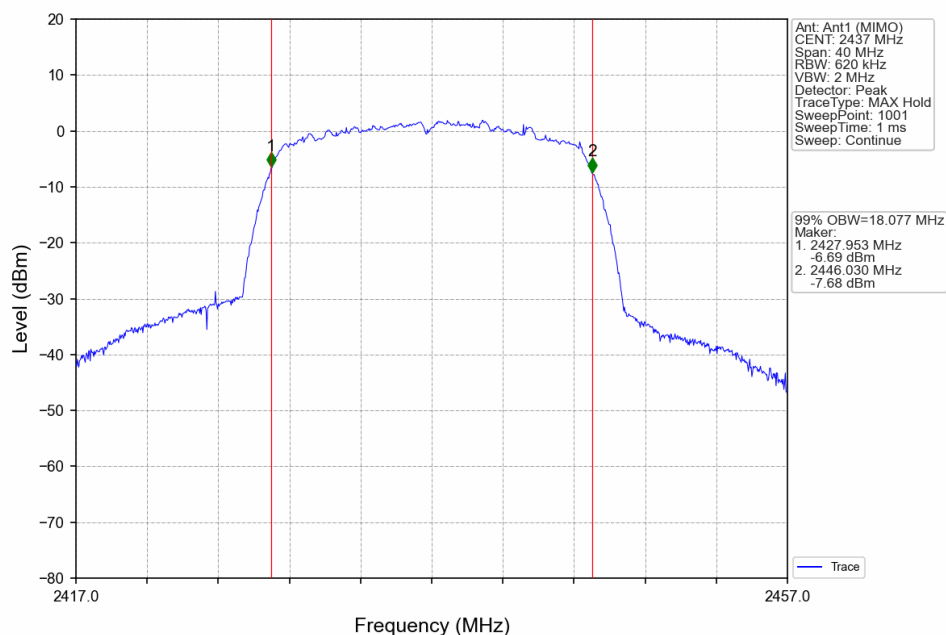
802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



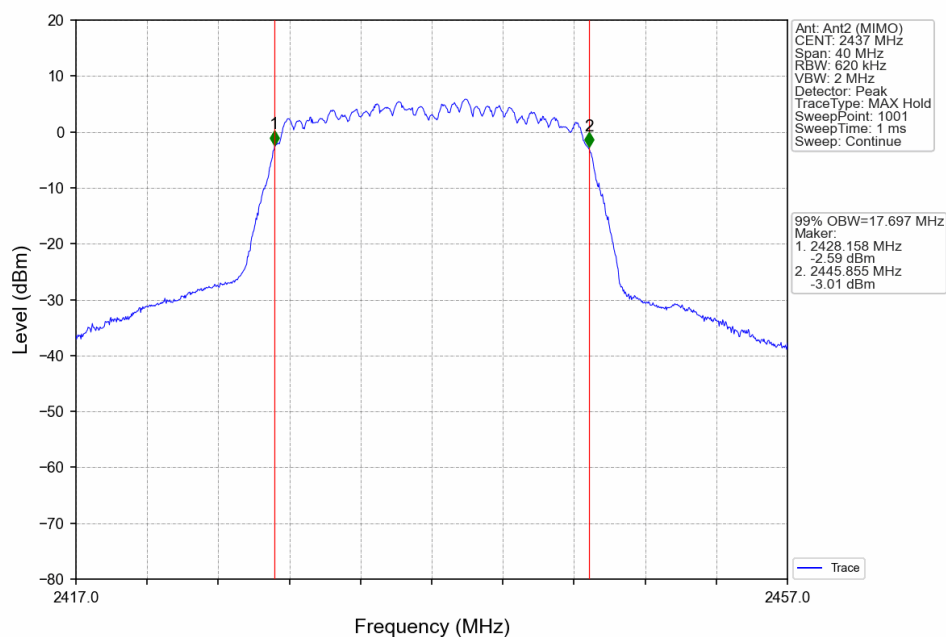
802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTNV



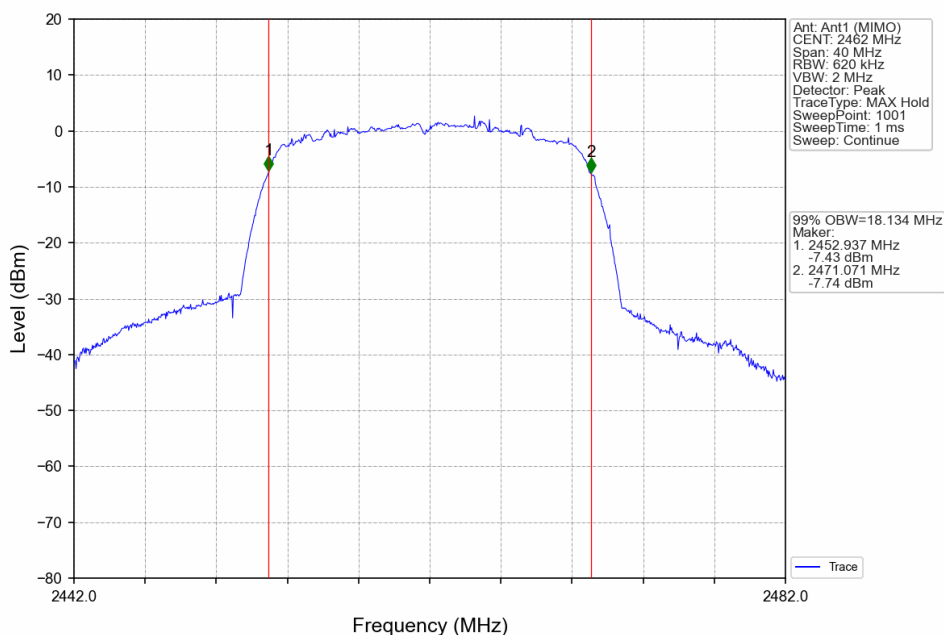
802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTN



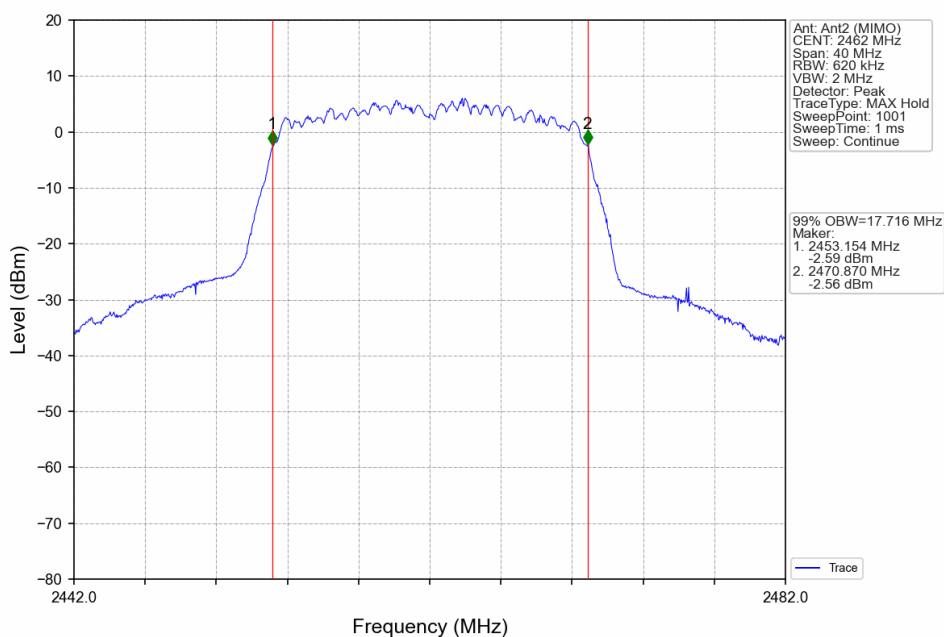
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTN



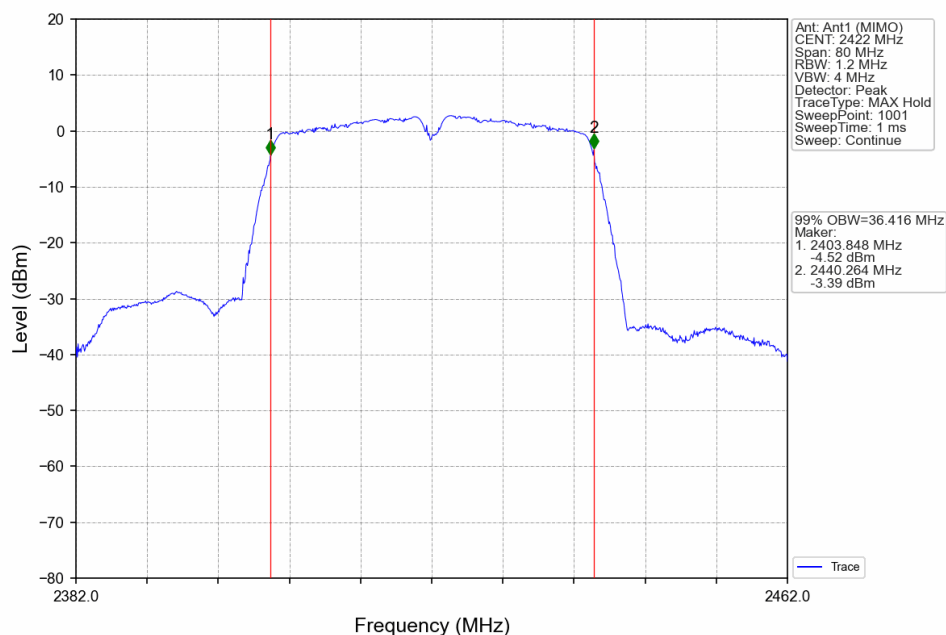
802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTVN



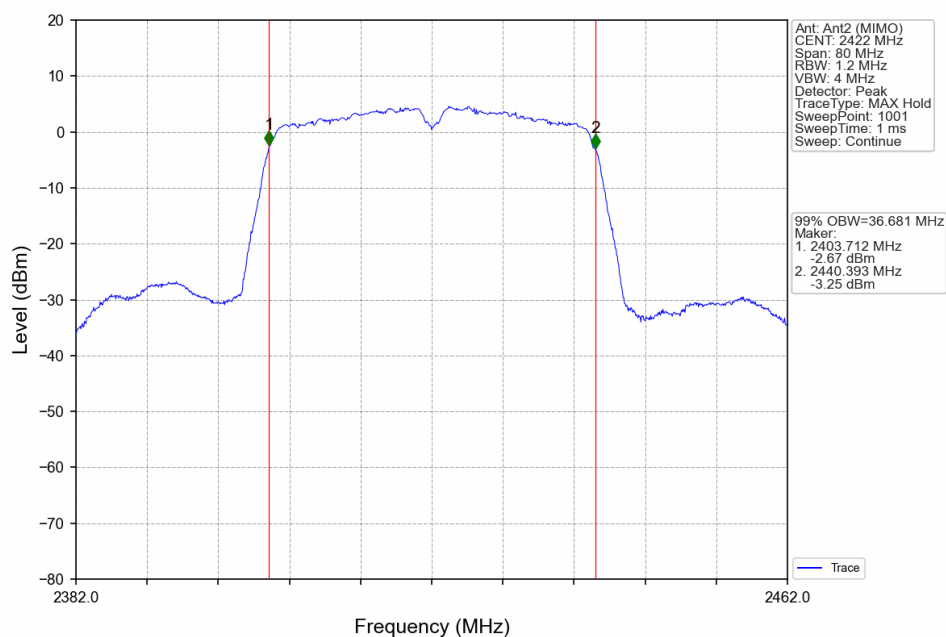
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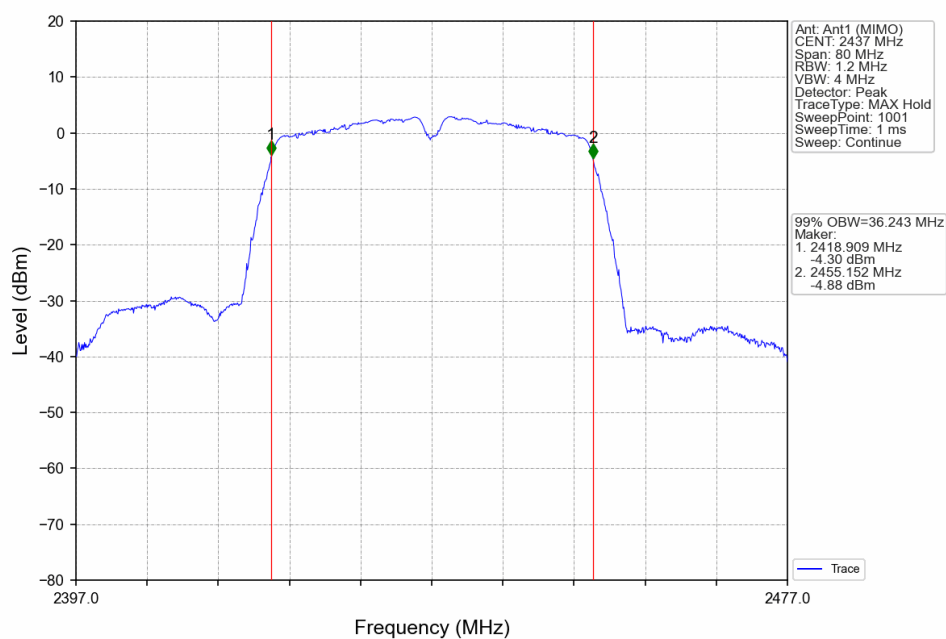
802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



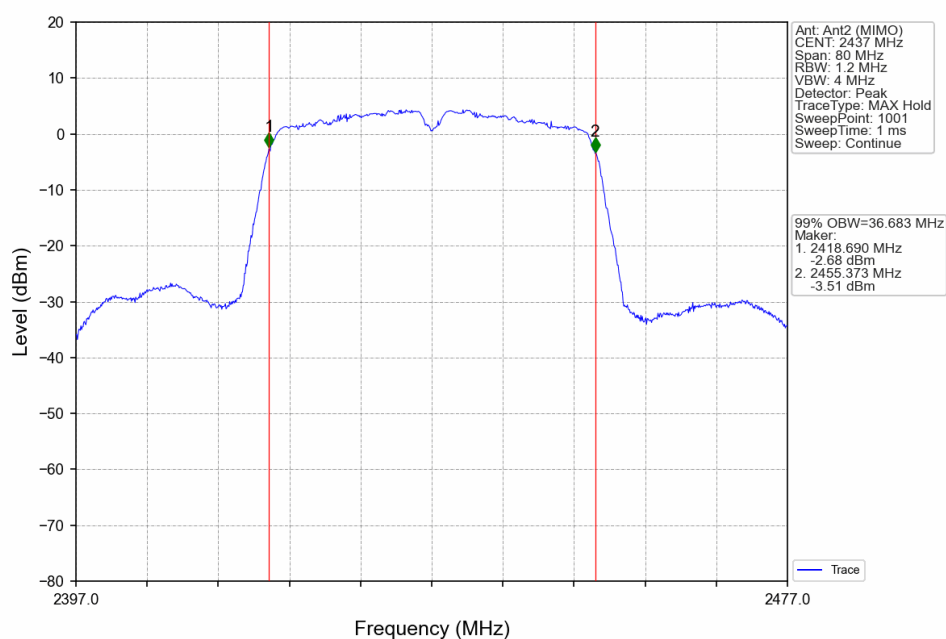
802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTNV



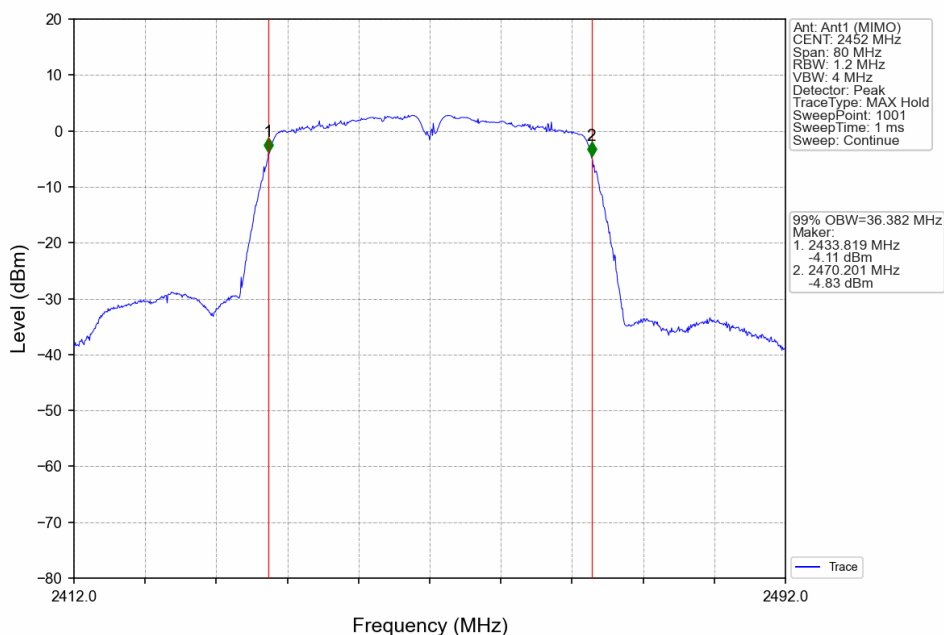
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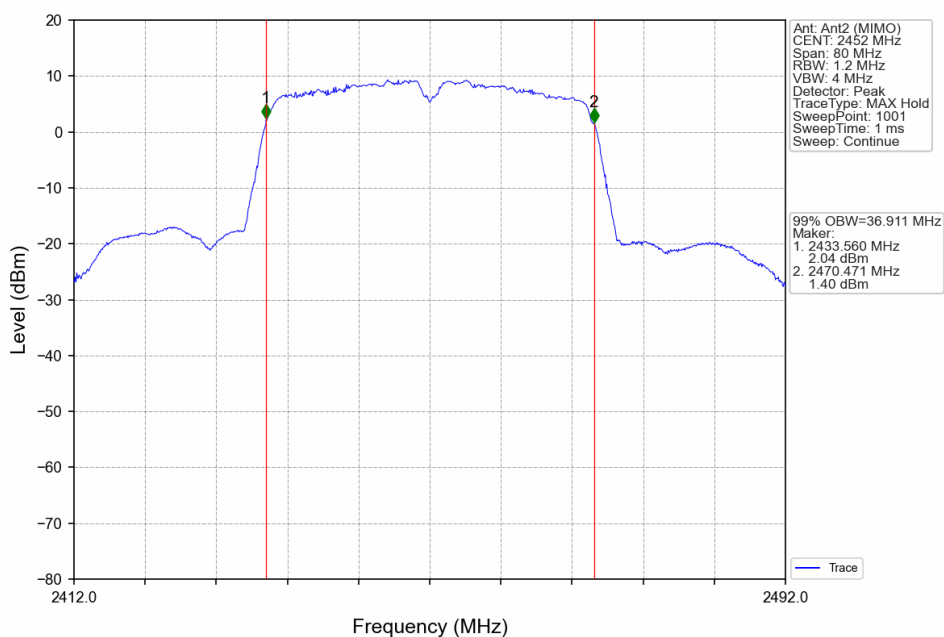
802.11n(HT40) MCH 2437MHz Ant2 (MIMO) NTN



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTVN



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

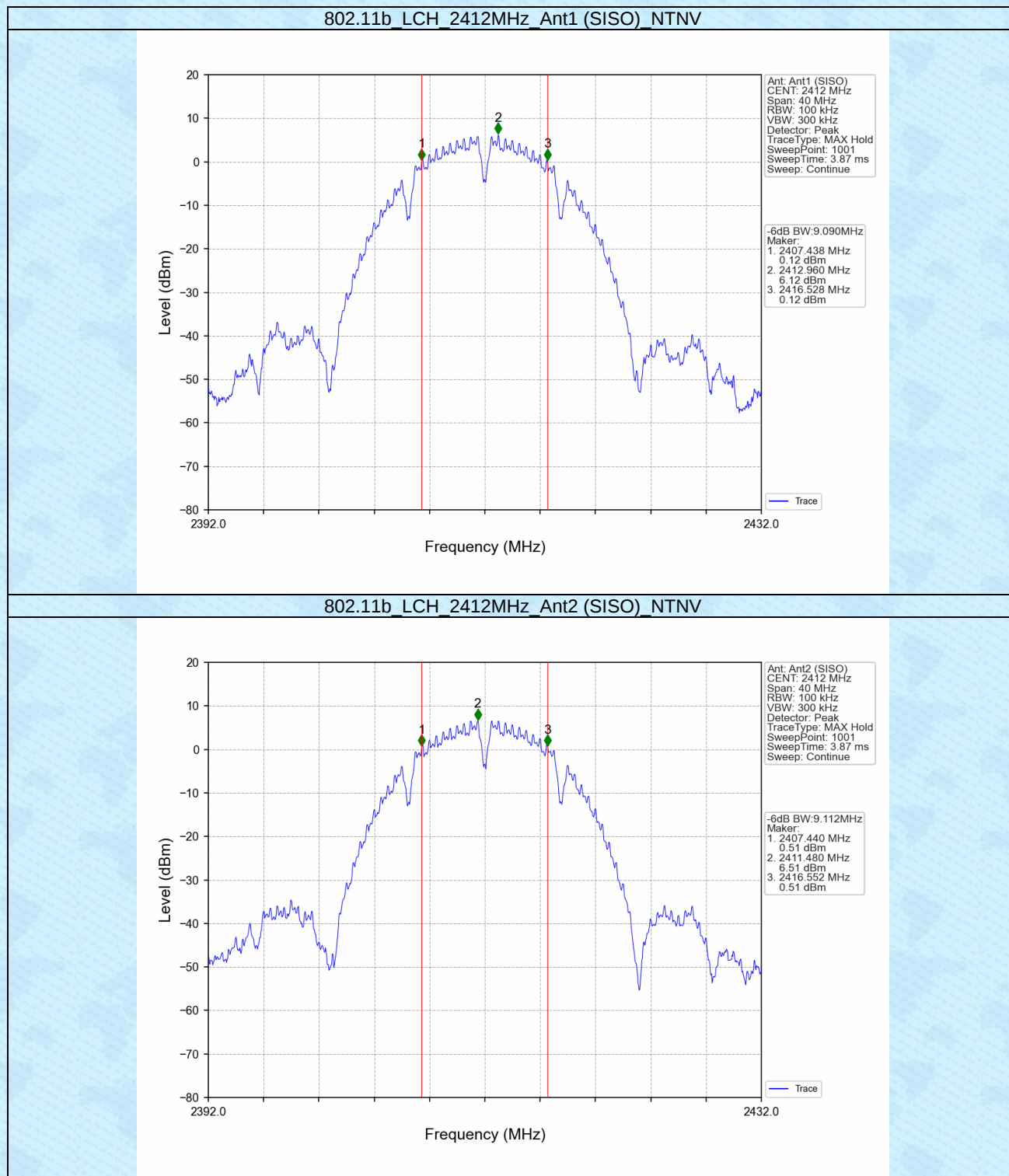


1.2 6dB BW

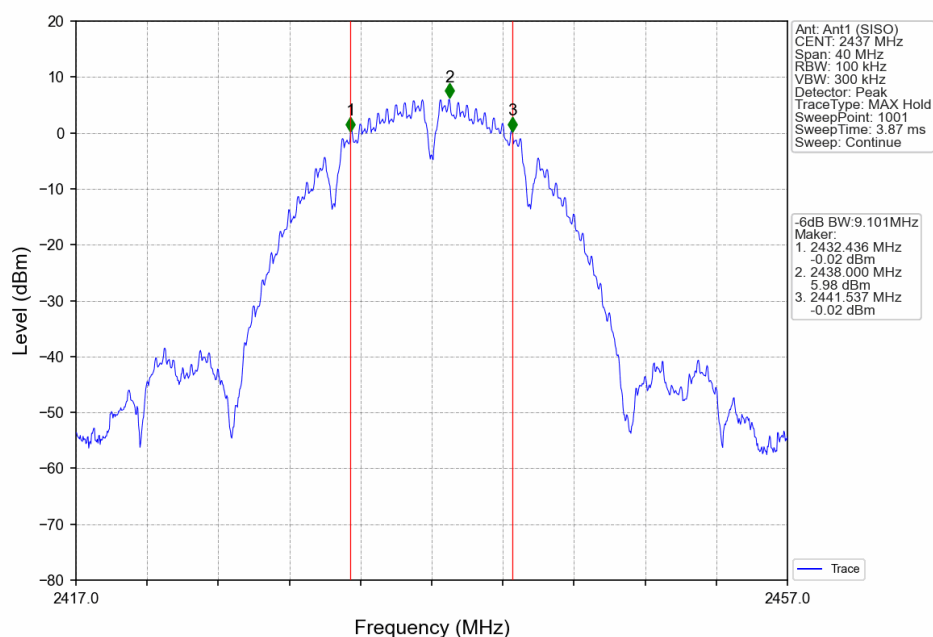
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.090	≥ 0.5	Pass
			2	9.112	≥ 0.5	Pass
		2437	1	9.101	≥ 0.5	Pass
			2	9.112	≥ 0.5	Pass
		2462	1	9.110	≥ 0.5	Pass
			2	10.081	≥ 0.5	Pass
802.11g	SISO	2412	1	15.165	≥ 0.5	Pass
			2	15.152	≥ 0.5	Pass
		2437	1	15.139	≥ 0.5	Pass
			2	15.153	≥ 0.5	Pass
		2462	1	15.157	≥ 0.5	Pass
			2	15.156	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.160	≥ 0.5	Pass
			2	16.335	≥ 0.5	Pass
		2437	1	15.155	≥ 0.5	Pass
			2	16.308	≥ 0.5	Pass
		2462	1	15.163	≥ 0.5	Pass
			2	16.340	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.175	≥ 0.5	Pass
			2	35.164	≥ 0.5	Pass
		2437	1	35.160	≥ 0.5	Pass
			2	35.158	≥ 0.5	Pass
		2452	1	35.172	≥ 0.5	Pass
			2	35.157	≥ 0.5	Pass

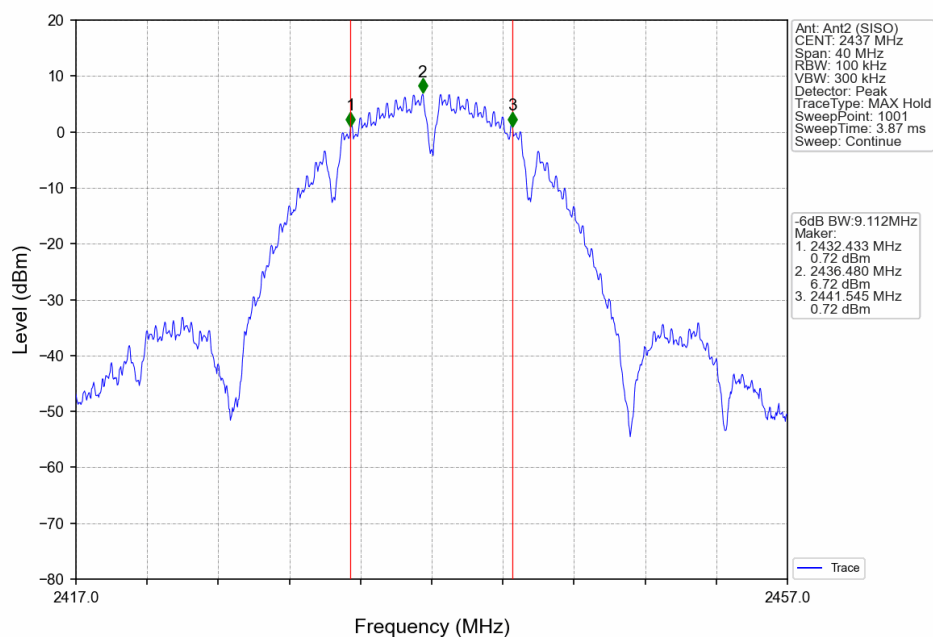
1.2.2 Test Graph



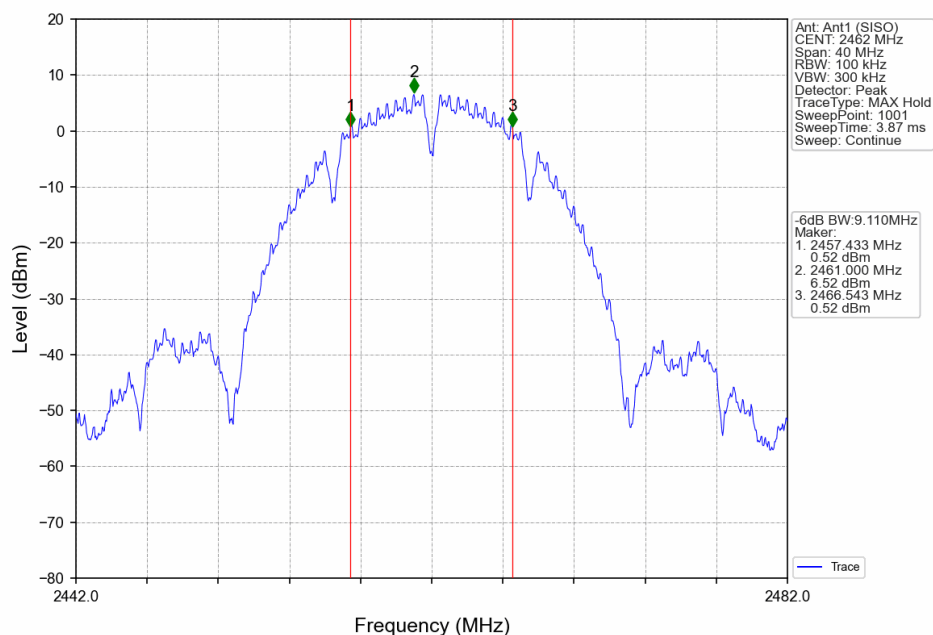
802.11b MCH 2437MHz Ant1 (SISO) NTNV



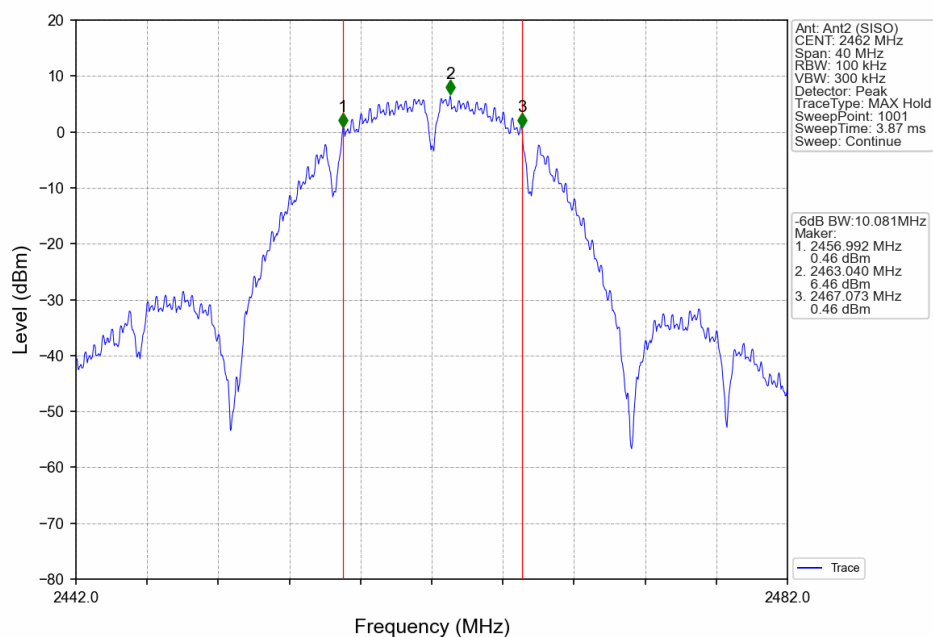
802.11b MCH 2437MHz Ant2 (SISO) NTNV



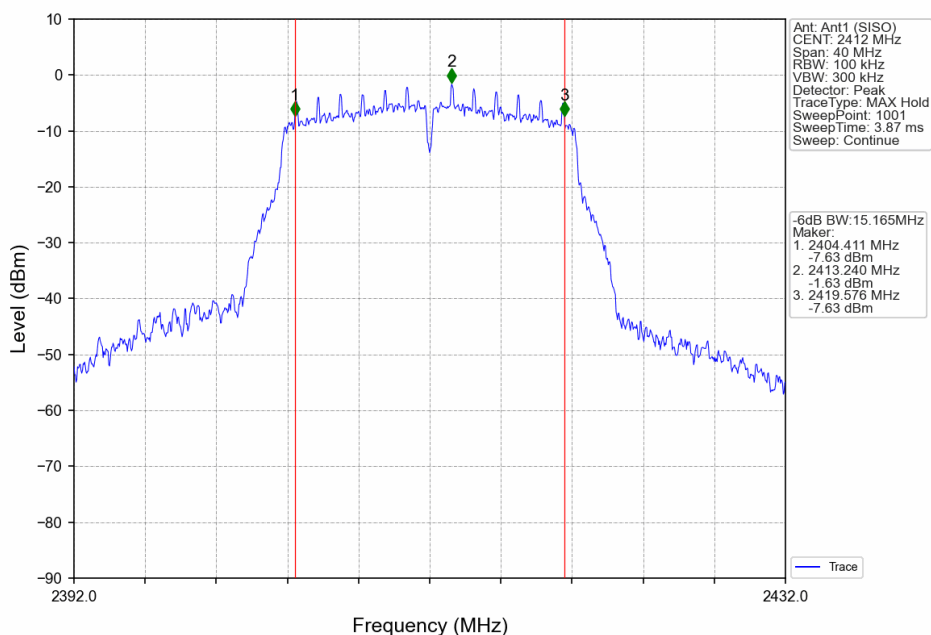
802.11b HCH 2462MHz Ant1 (SISO) NTNV



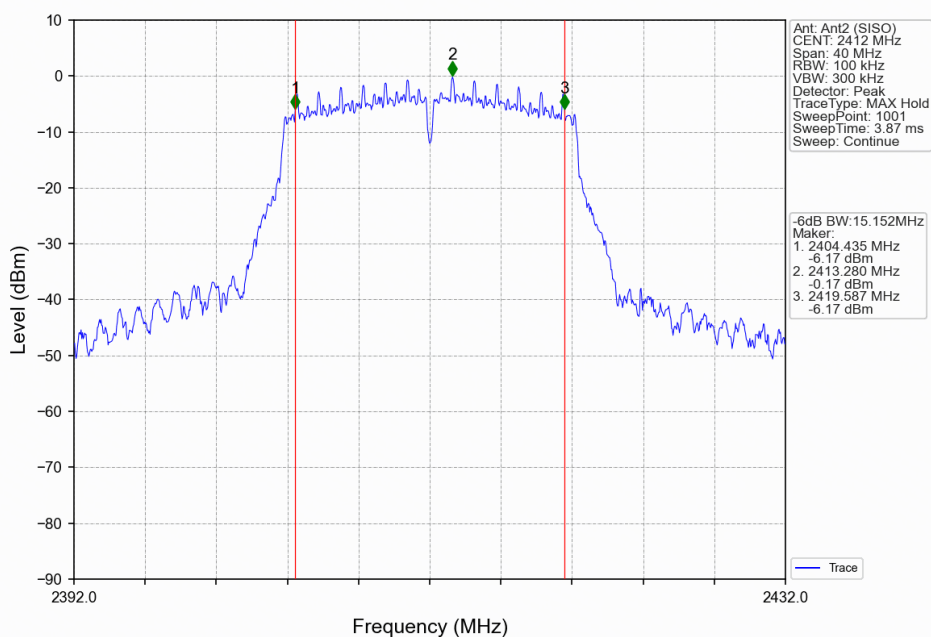
802.11b HCH 2462MHz Ant2 (SISO) NTNV



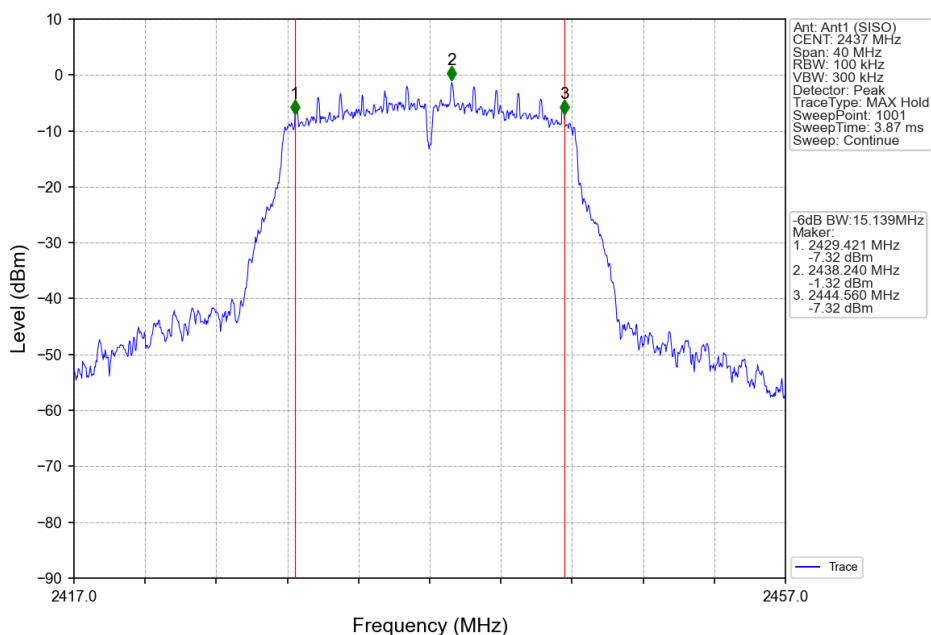
802.11g LCH 2412MHz Ant1 (SISO) NTN



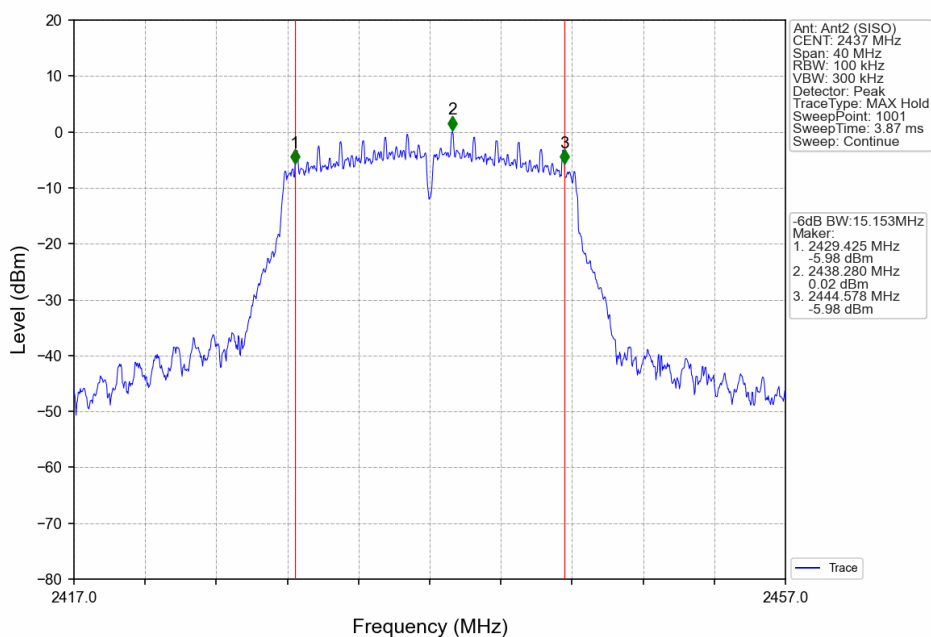
802.11g LCH 2412MHz Ant2 (SISO) NTN



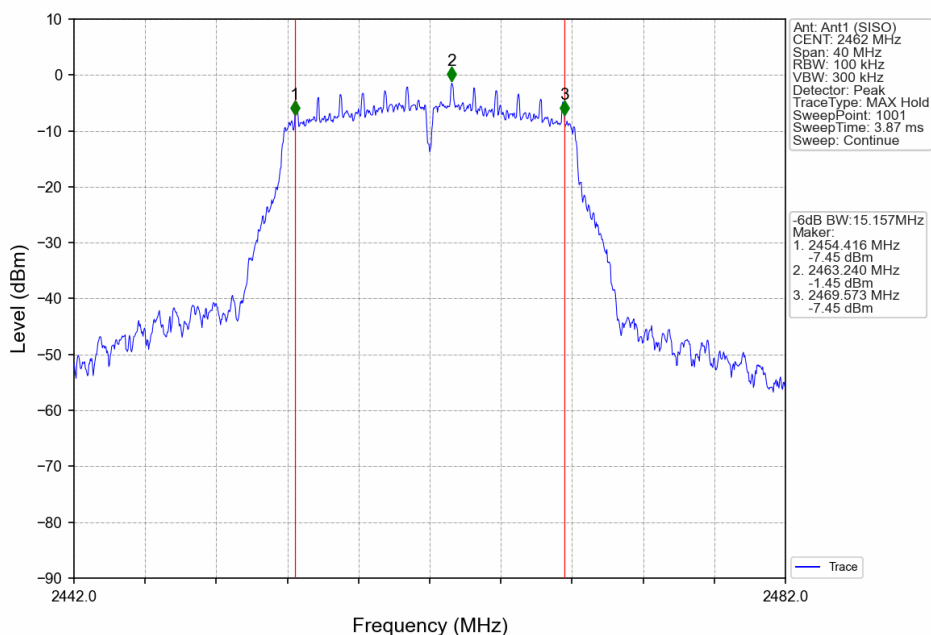
802.11g MCH 2437MHz Ant1 (SISO) NTNV



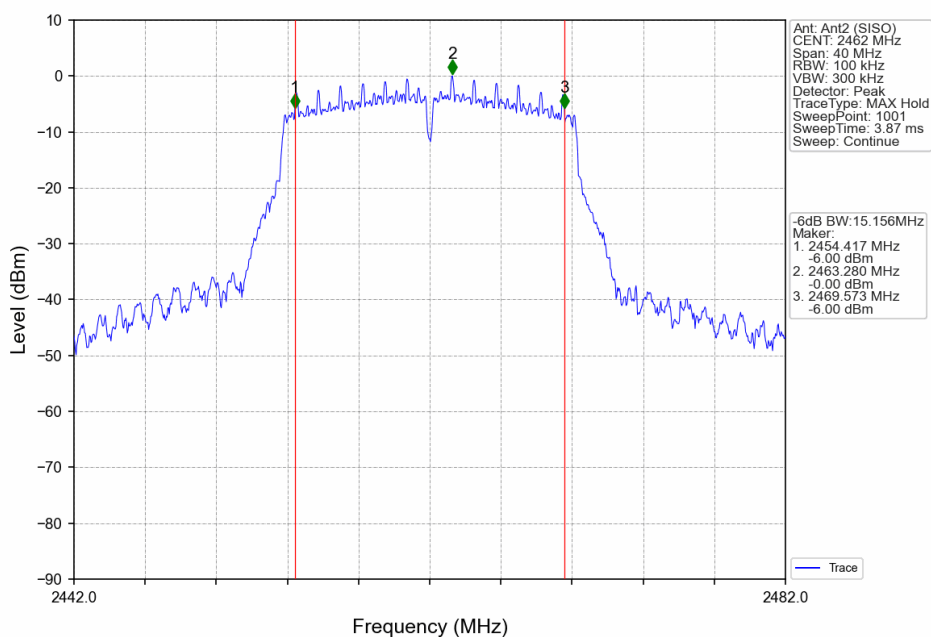
802.11g MCH 2437MHz Ant2 (SISO) NTNV



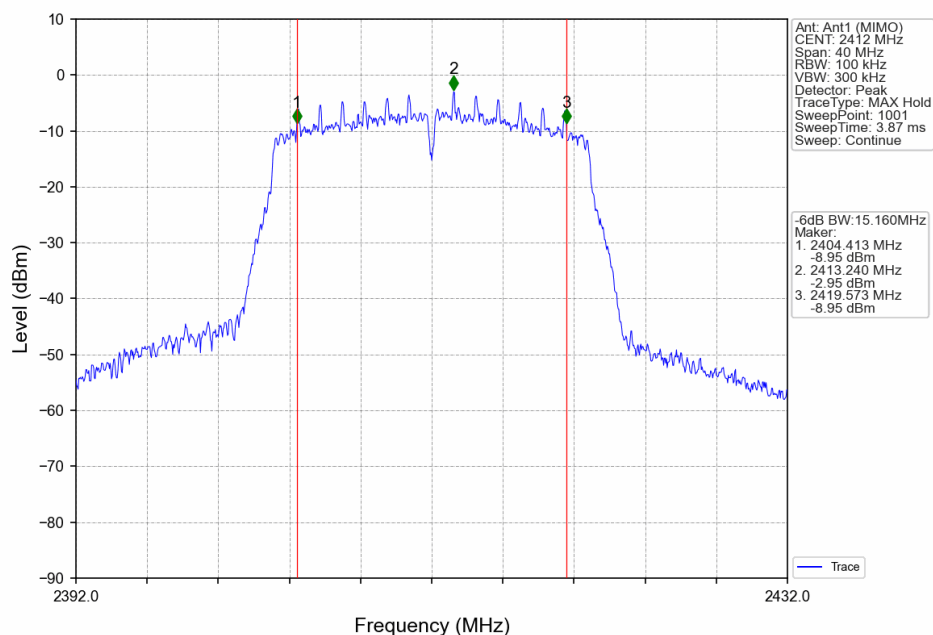
802.11g HCH 2462MHz Ant1 (SISO) NTNV



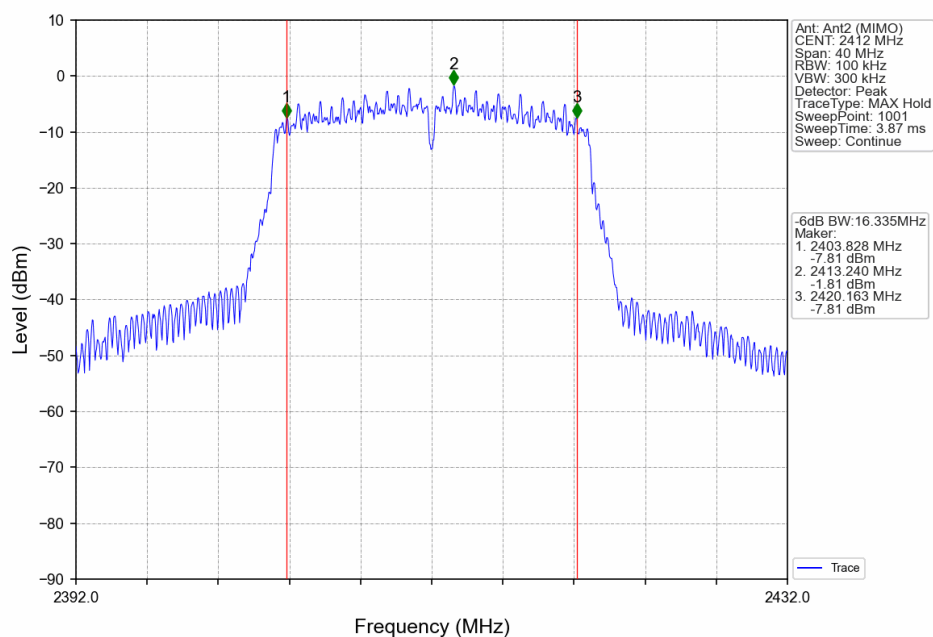
802.11g HCH 2462MHz Ant2 (SISO) NTNV



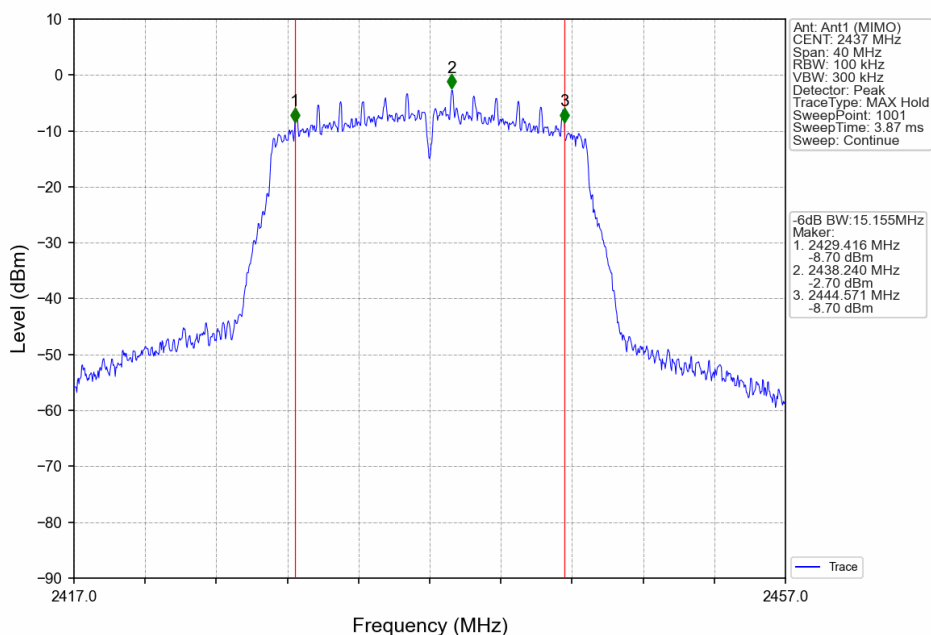
802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



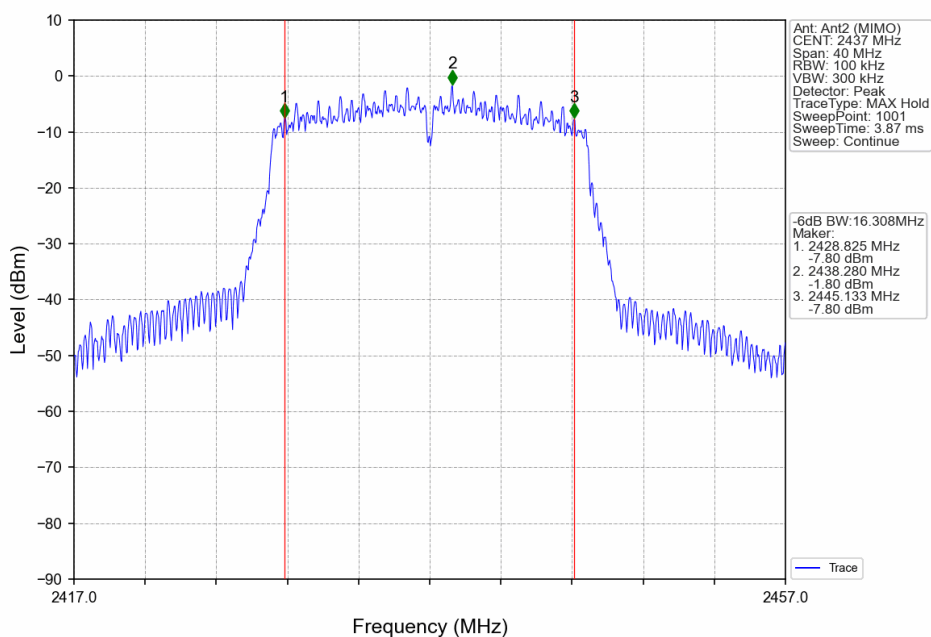
802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTNV



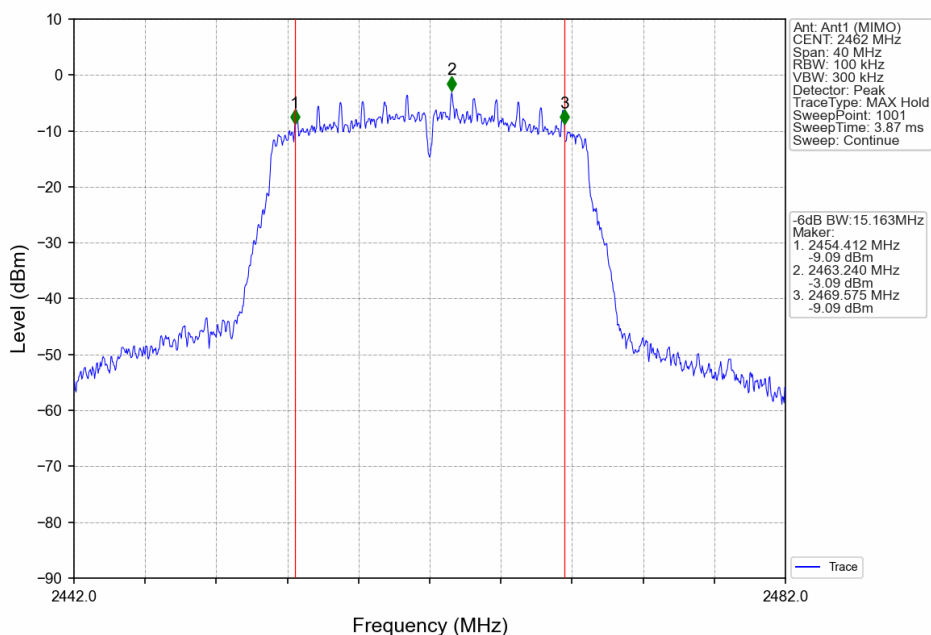
802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTN



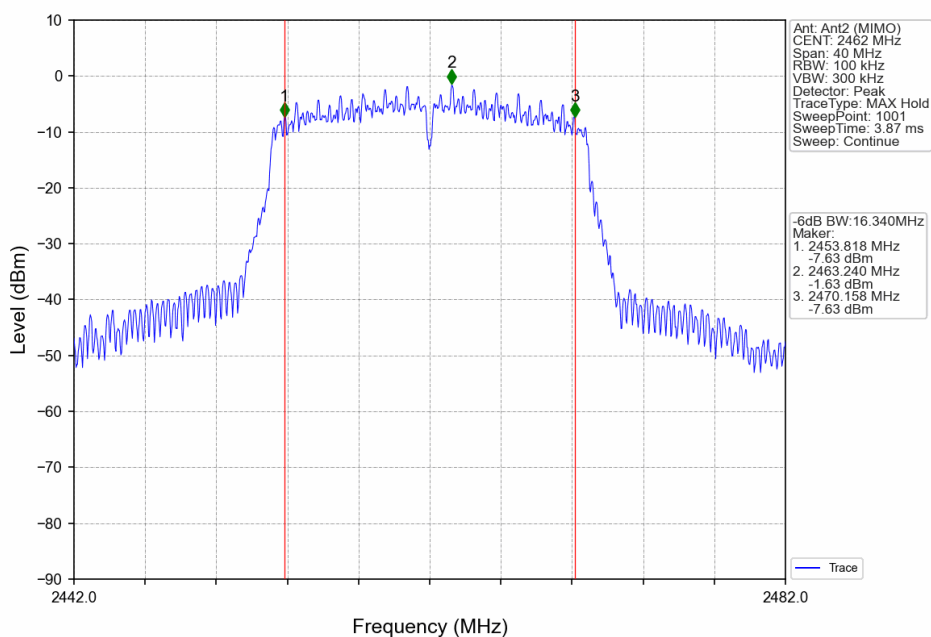
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTN



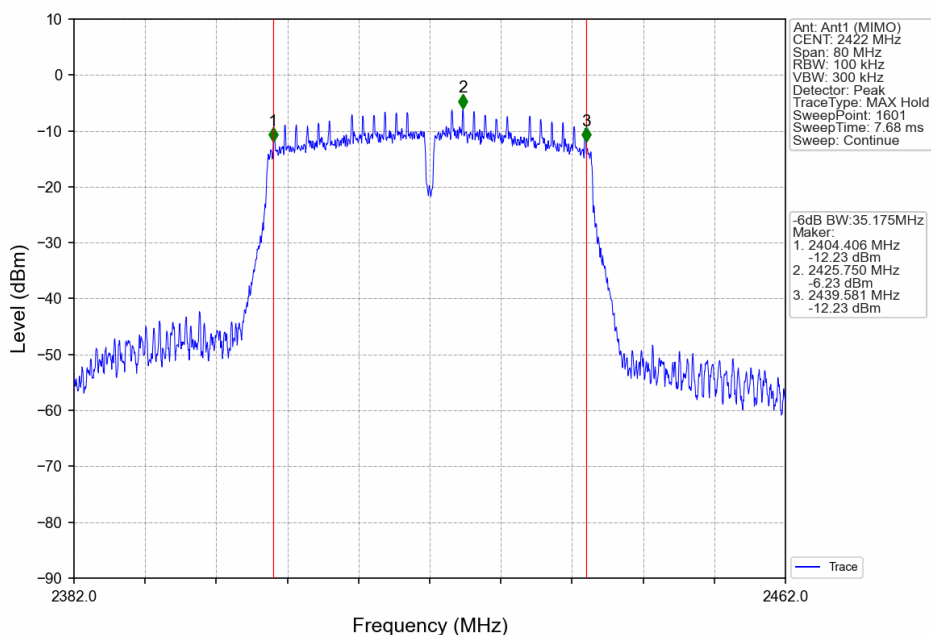
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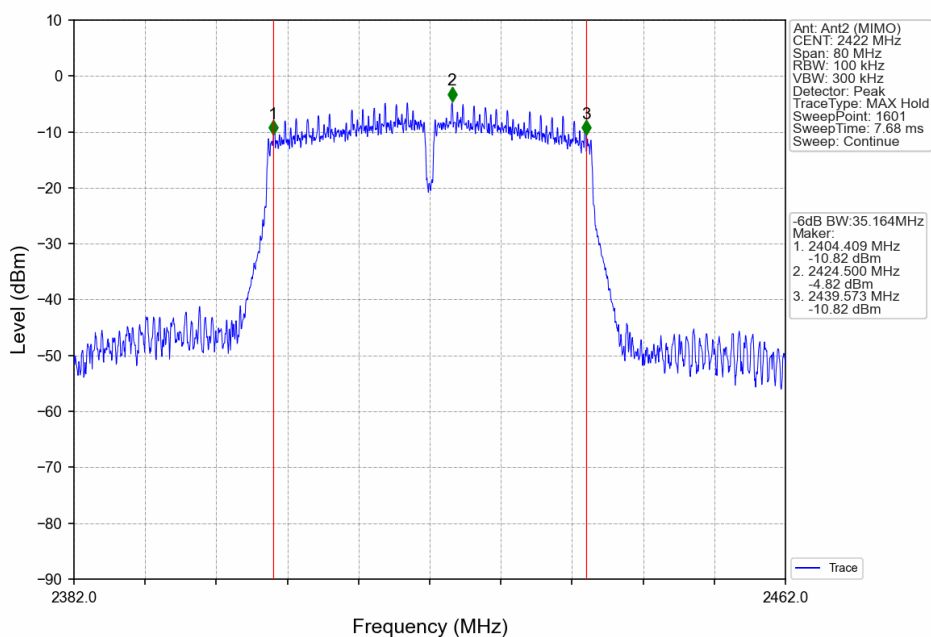
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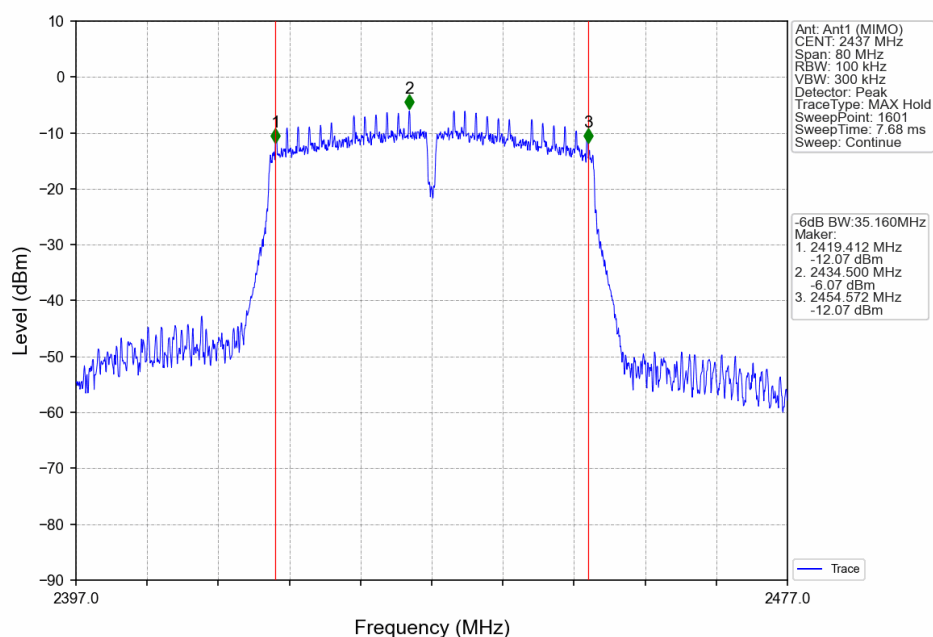
802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



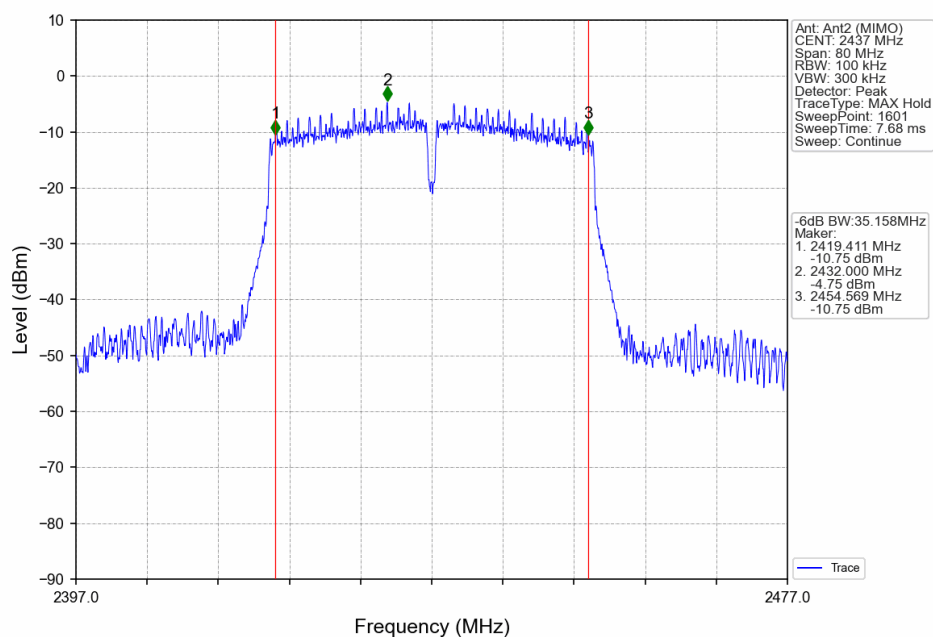
802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTNV



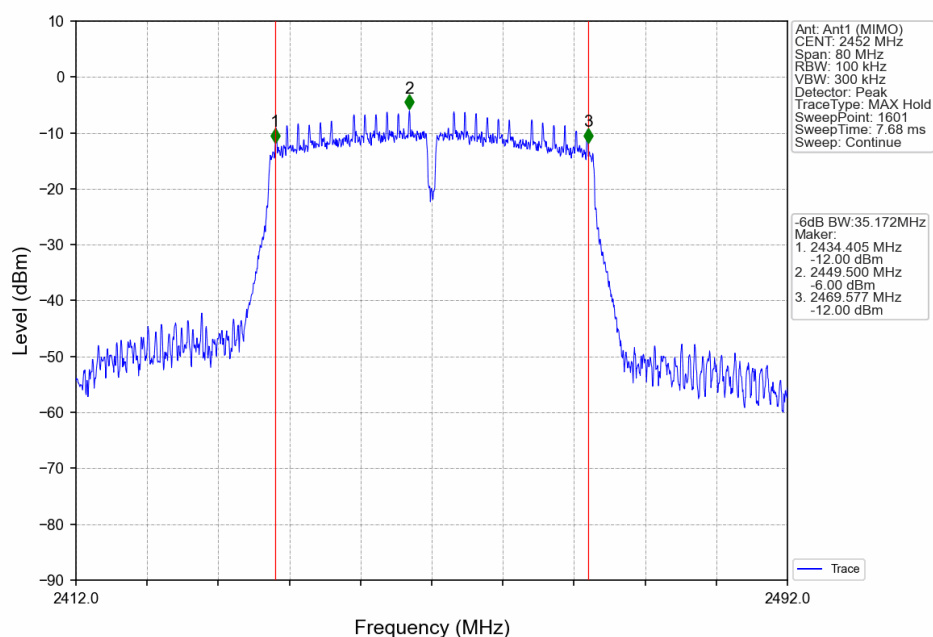
802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTN



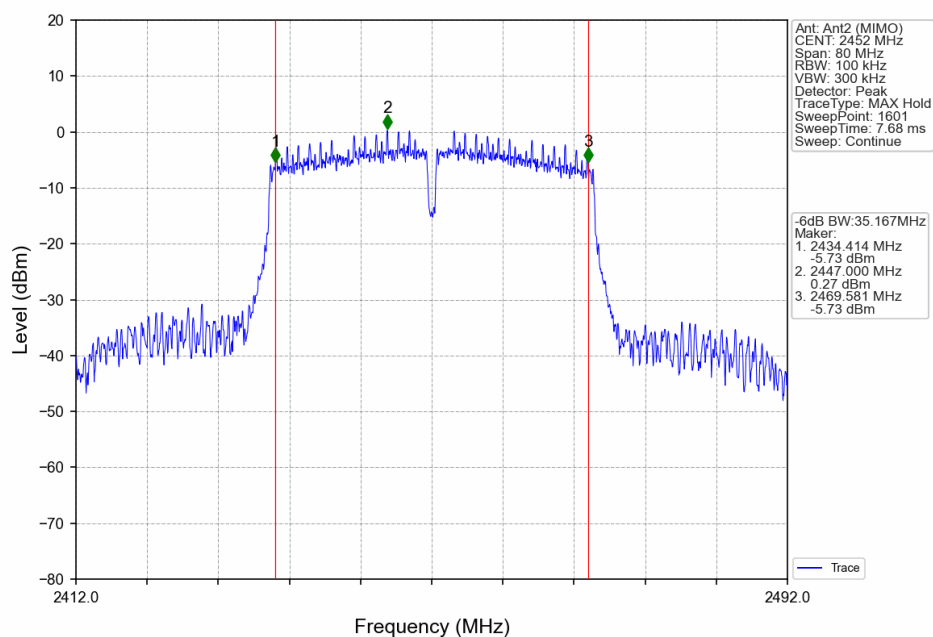
802.11n(HT40) MCH 2437MHz Ant2 (MIMO) NTN



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTN



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



2. Maximum Conducted Output Power

2.1 Test Result

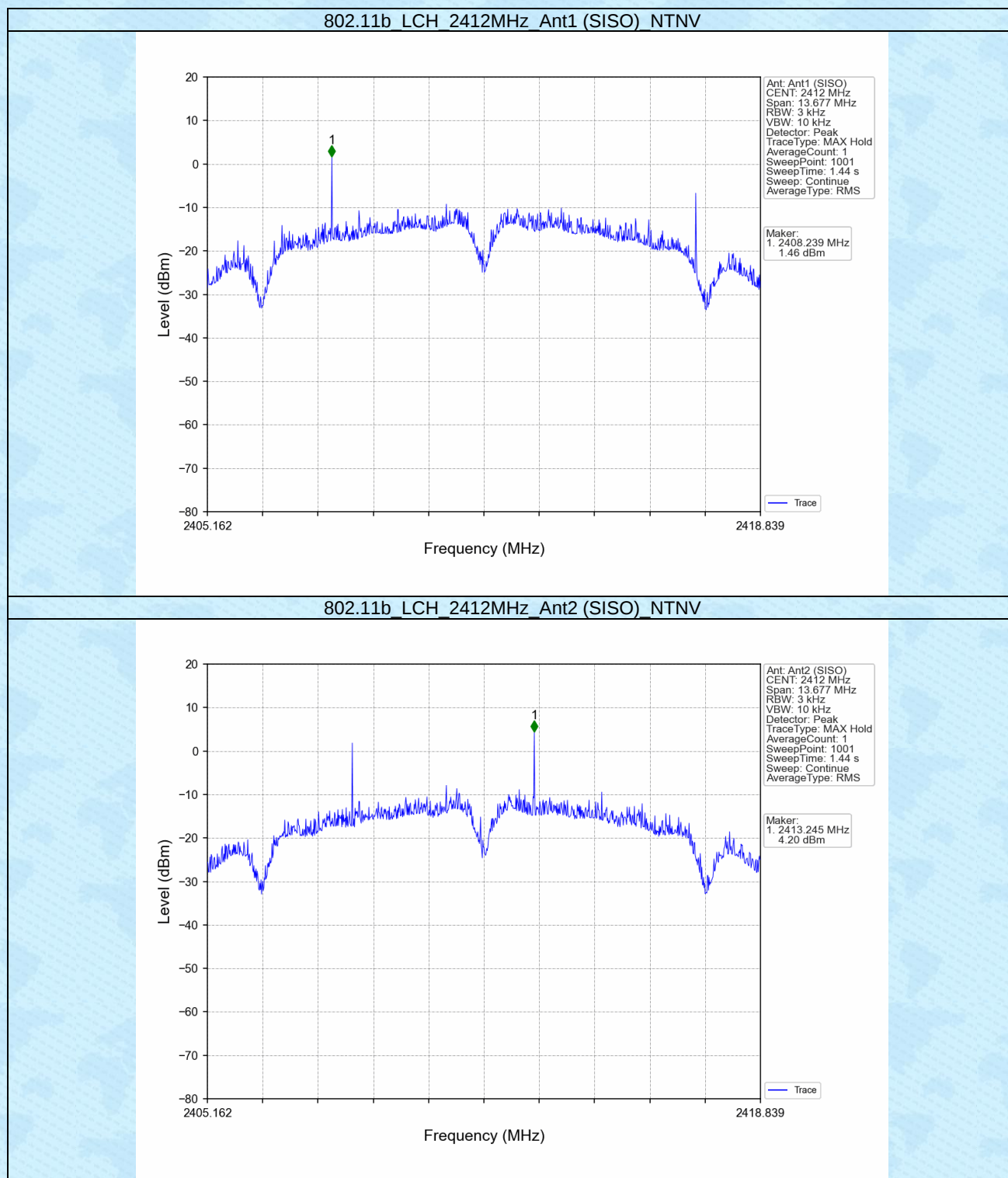
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	18.24	18.63	/	<=30	Pass
		2437	18.35	18.66	/	<=30	Pass
		2462	18.45	18.71	/	<=30	Pass
802.11g	SISO	2412	16.79	16.12	/	<=30	Pass
		2437	16.91	17.56	/	<=30	Pass
		2462	16.78	17.68	/	<=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

3. Maximum Power Spectral Density

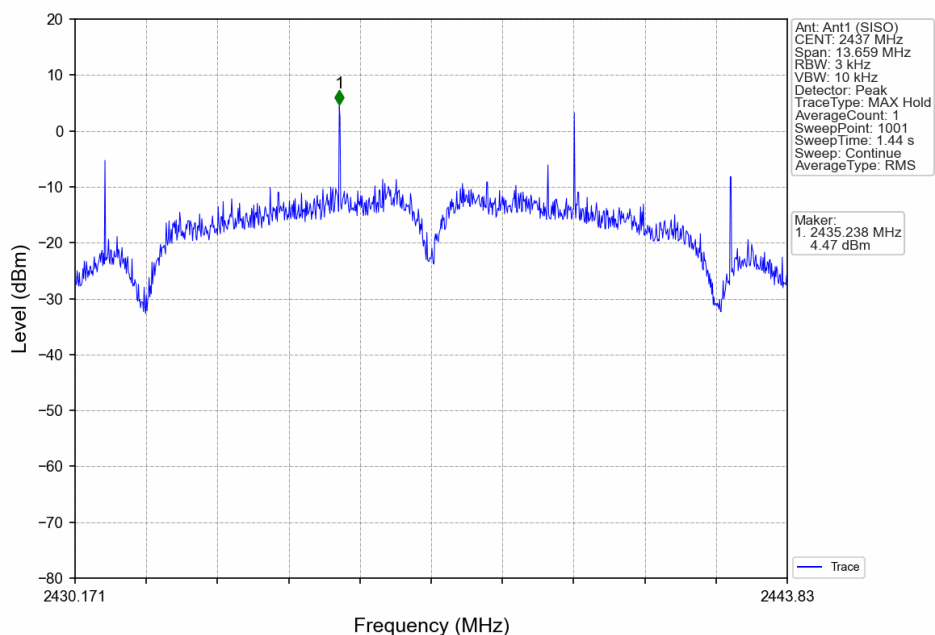
3.1 Test Result

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	<=7.72	Pass
		2437	-18.90	-17.74	-15.77	<=7.72	Pass
		2462	-17.90	-17.72	-15.38	<=7.72	Pass
802.11n (HT40)	MIMO	2422	-21.37	-21.54	-18.45	<=7.72	Pass
		2437	-21.11	-20.34	-18.60	<=7.72	Pass
		2452	-21.10	-20.94	-18.28	<=7.72	Pass
Note1: Antenna Gain: Ant1: 3.48dBi; Ant2: 3.05dBi; Note2: Directional Gain: correlated(Directional Gain = 6.28dBi)							

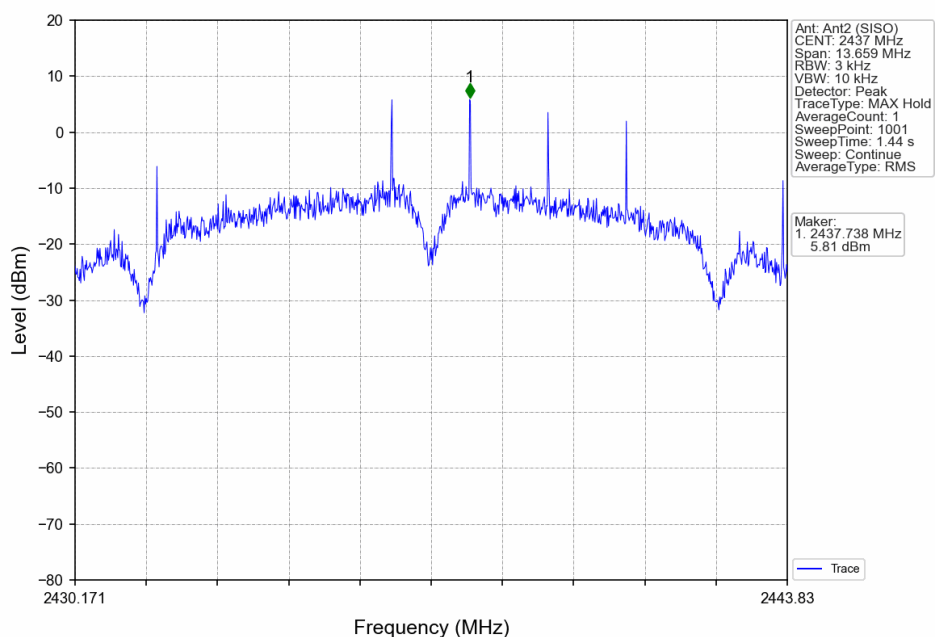
3.2 Test Graph



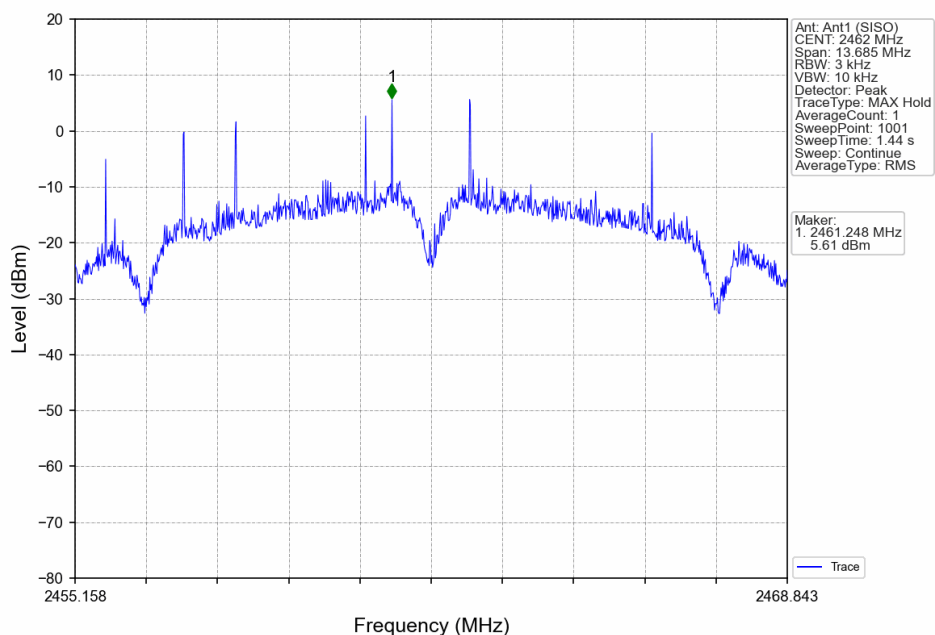
802.11b MCH 2437MHz Ant1 (SISO) NTNV



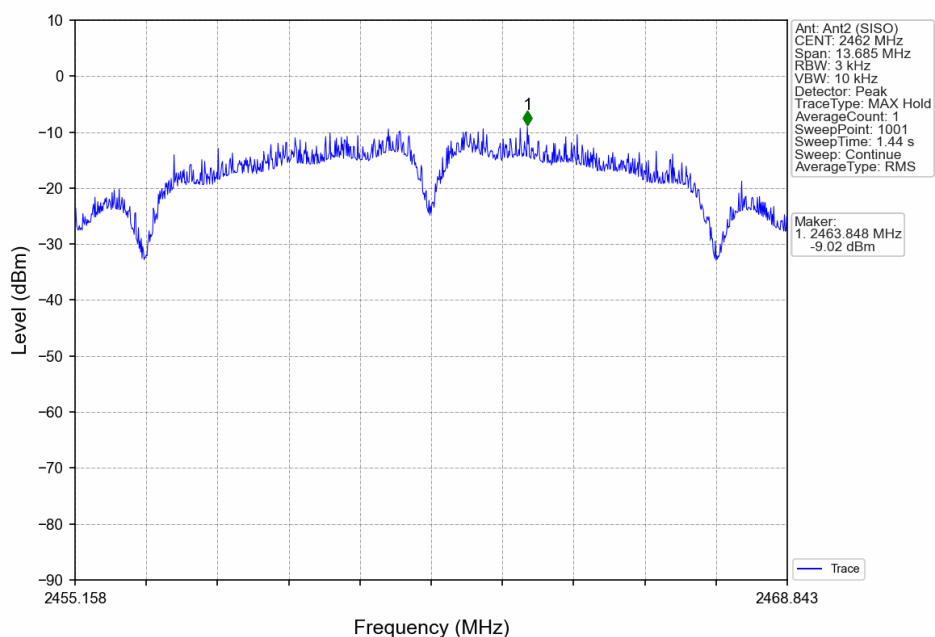
802.11b MCH 2437MHz Ant2 (SISO) NTNV



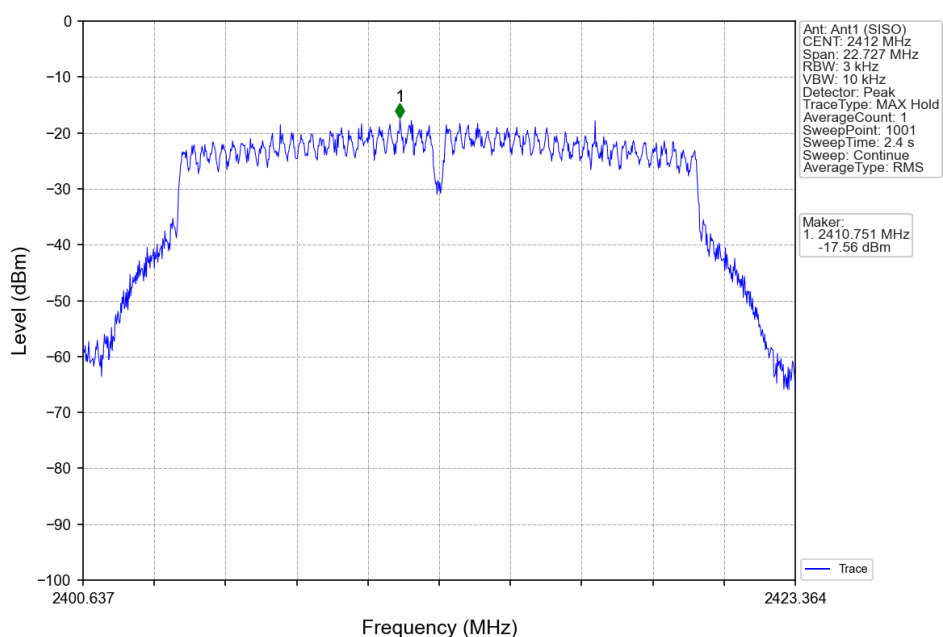
802.11b HCH 2462MHz Ant1 (SISO) NTNV



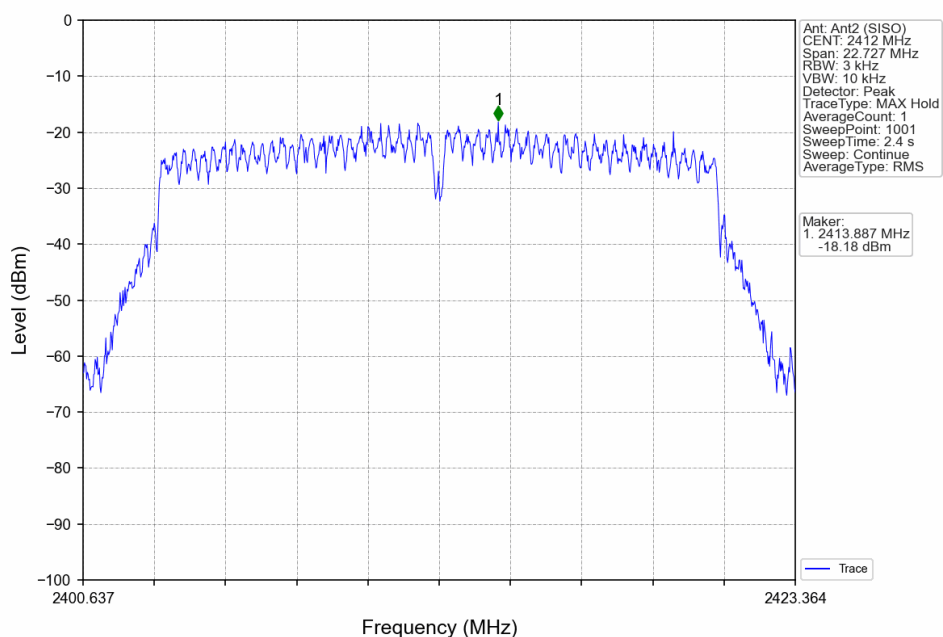
802.11b HCH 2462MHz Ant2 (SISO) NTNV



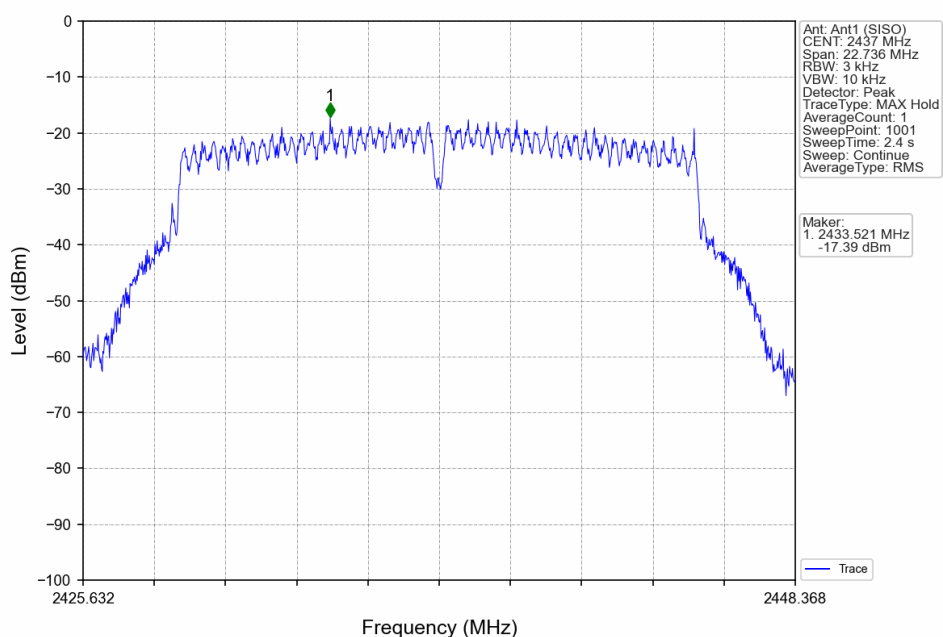
802.11g LCH 2412MHz Ant1 (SISO) NTNV



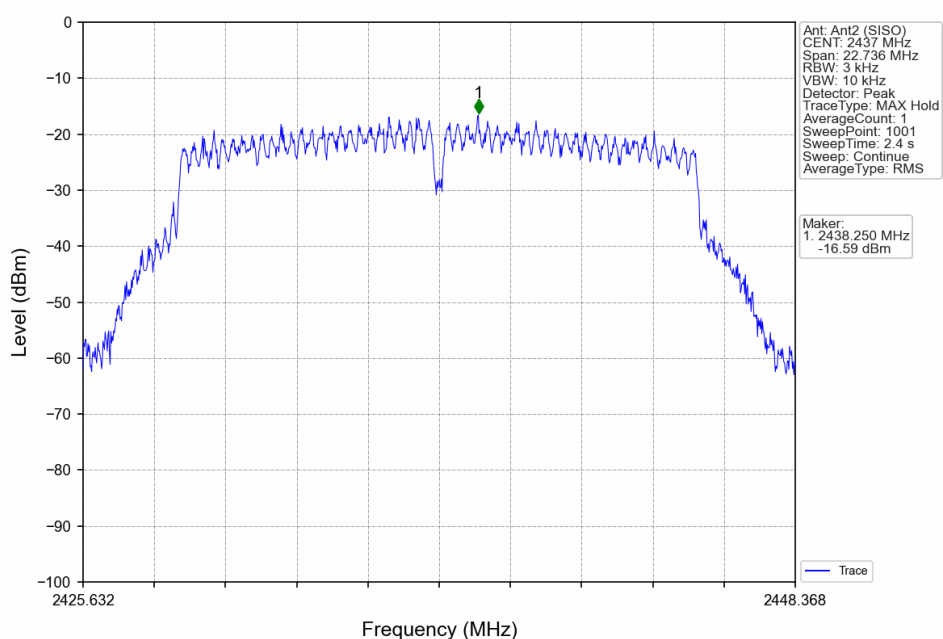
802.11g LCH 2412MHz Ant2 (SISO) NTNV



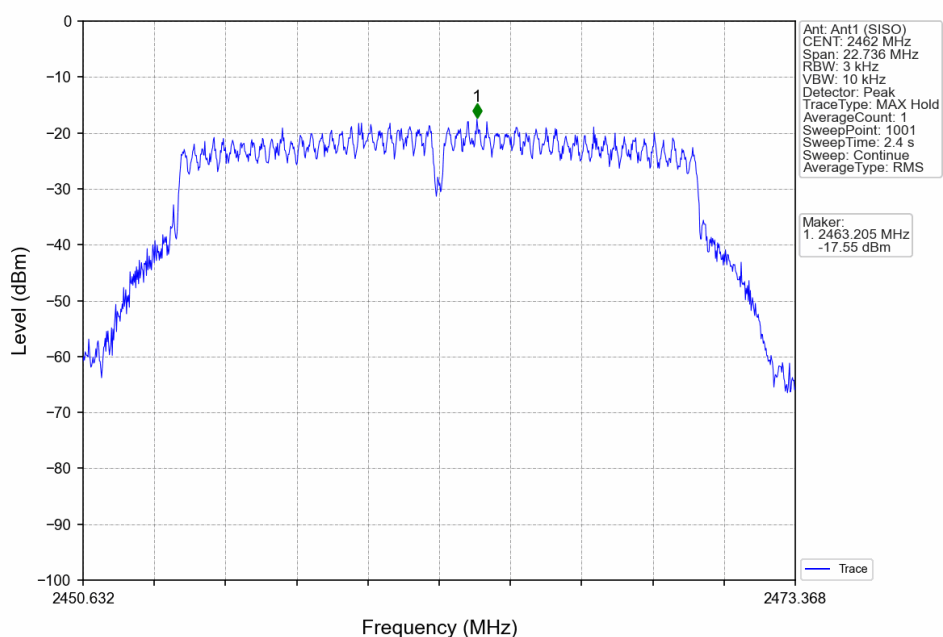
802.11g MCH 2437MHz Ant1 (SISO) NTNV



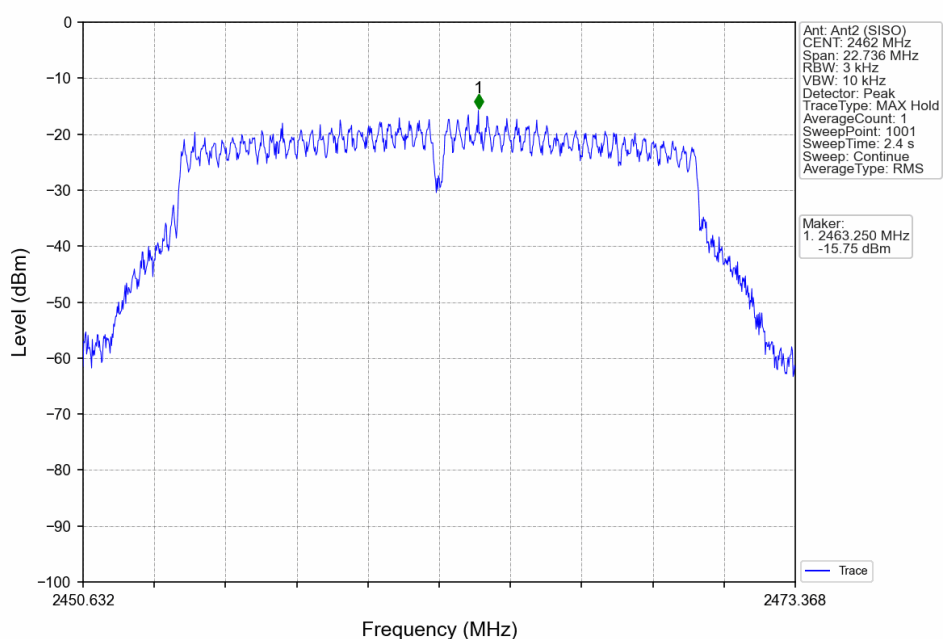
802.11g MCH 2437MHz Ant2 (SISO) NTNV



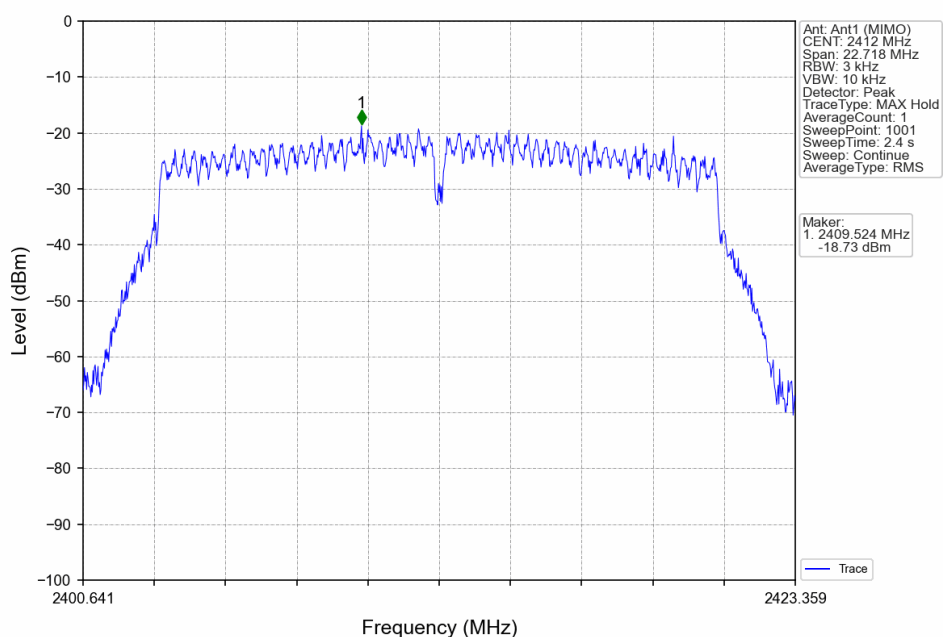
802.11g HCH 2462MHz Ant1 (SISO) NTNV



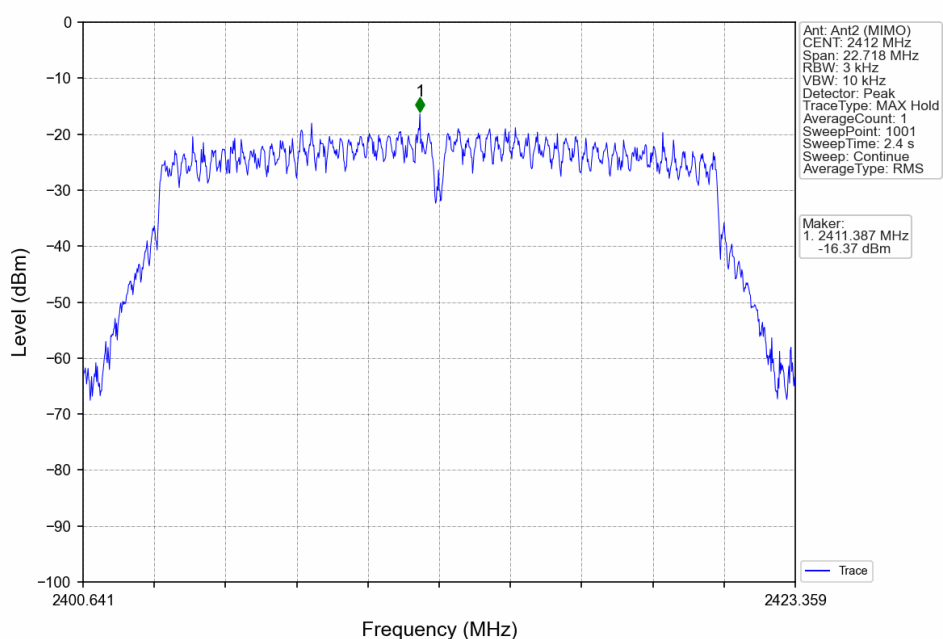
802.11g HCH 2462MHz Ant2 (SISO) NTNV



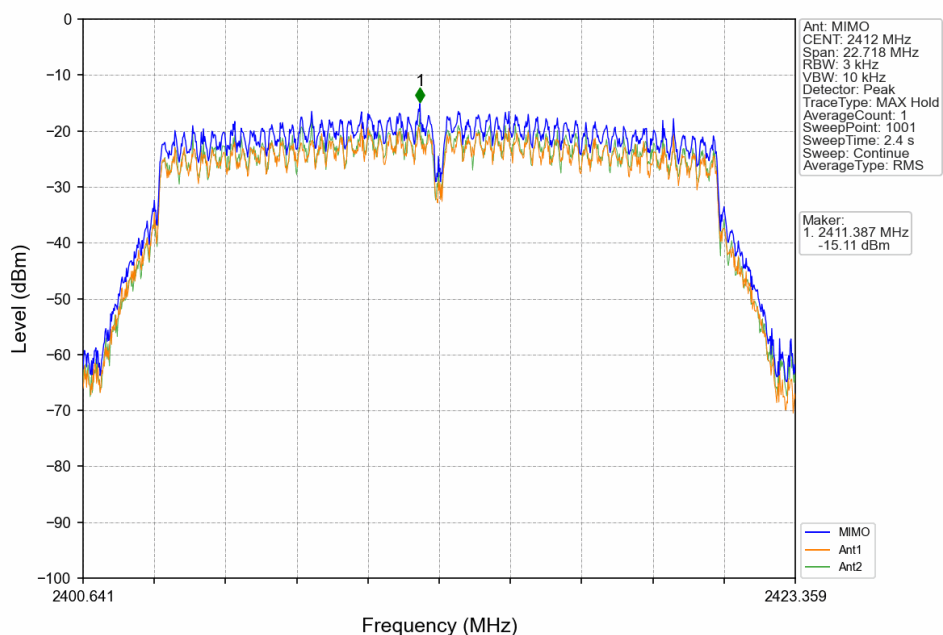
802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



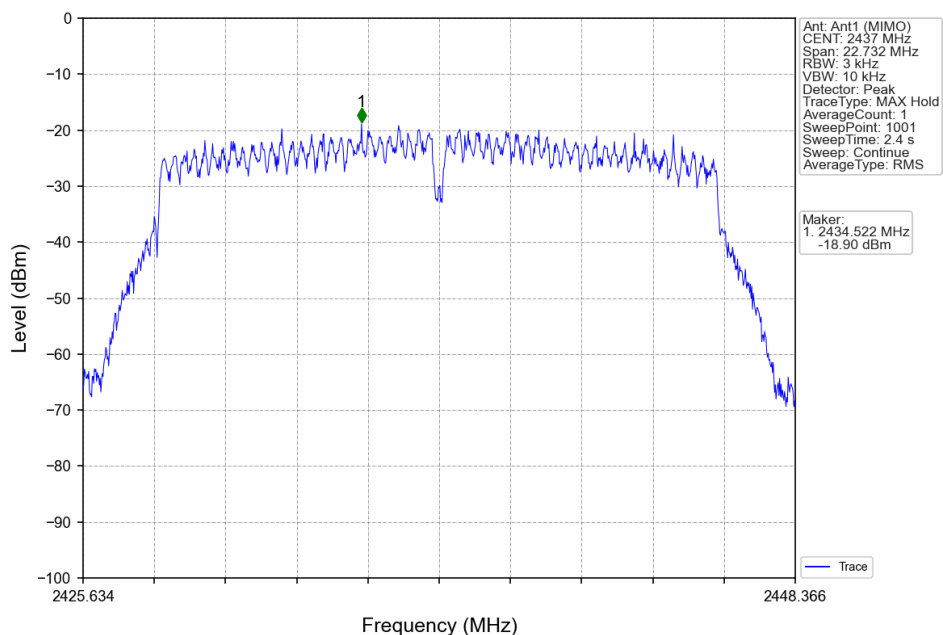
802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTNV



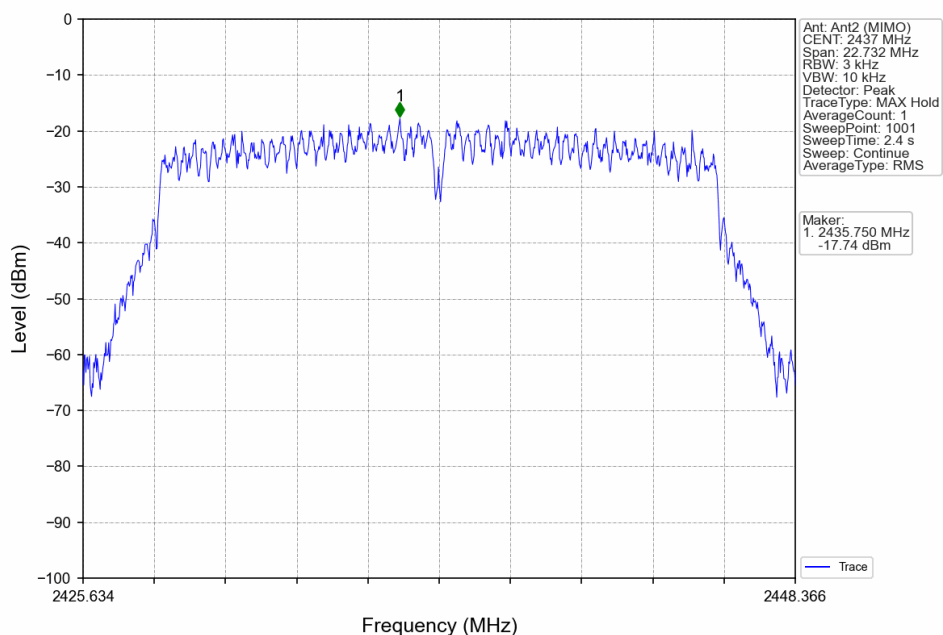
802.11n(HT20) LCH 2412MHz MIMO NTNV



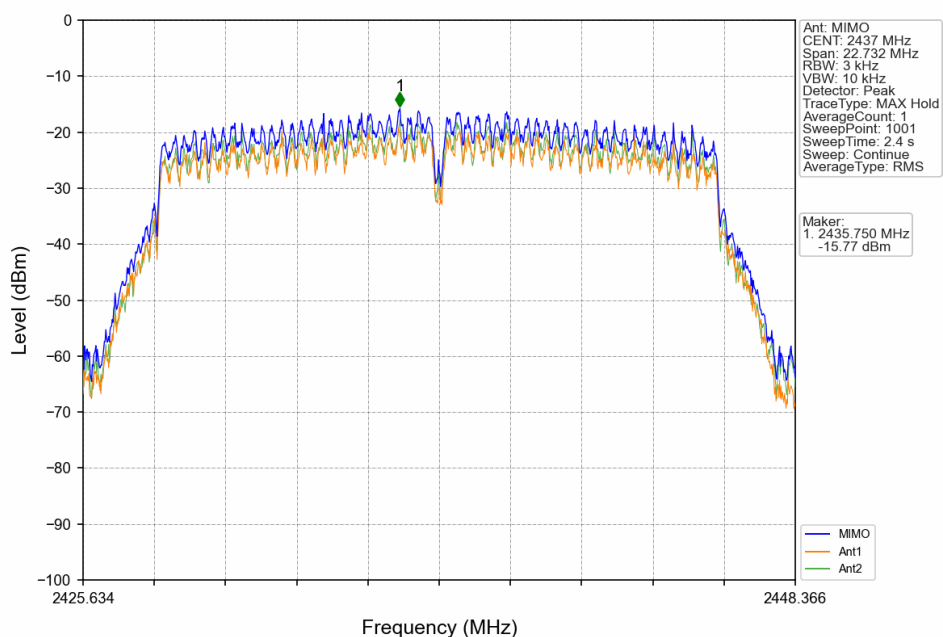
802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTNV



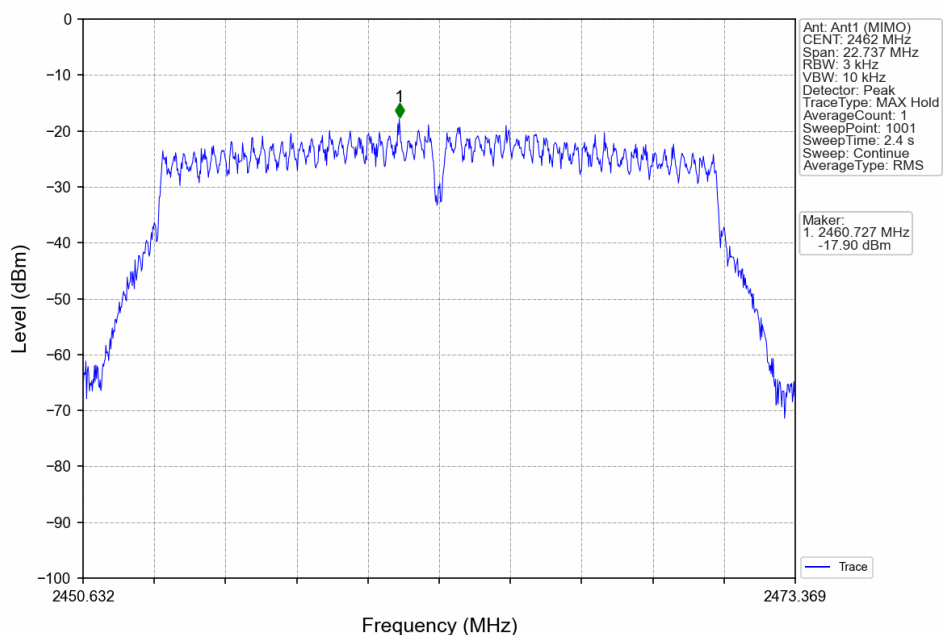
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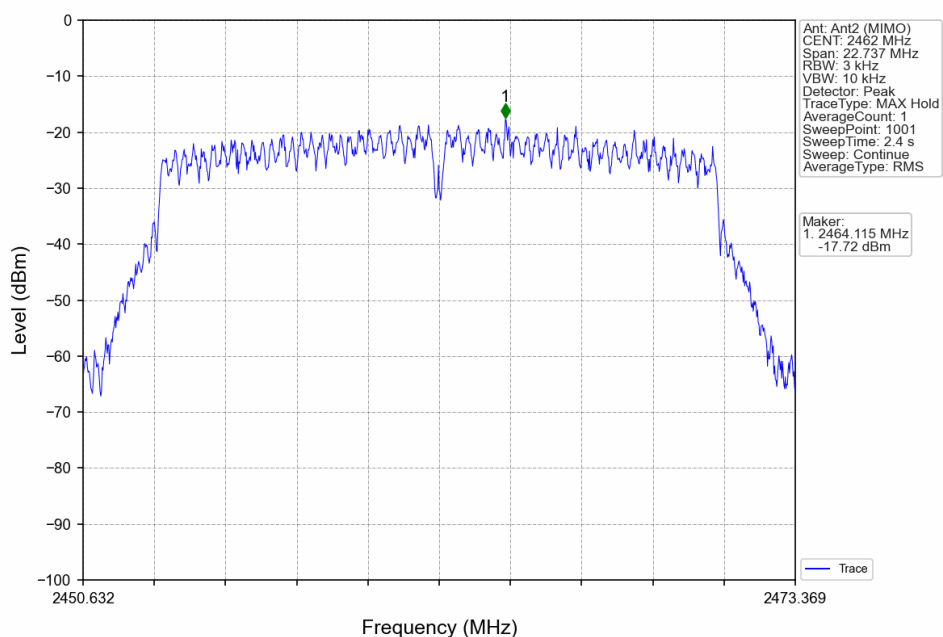
802.11n(HT20) MCH 2437MHz MIMO NTN



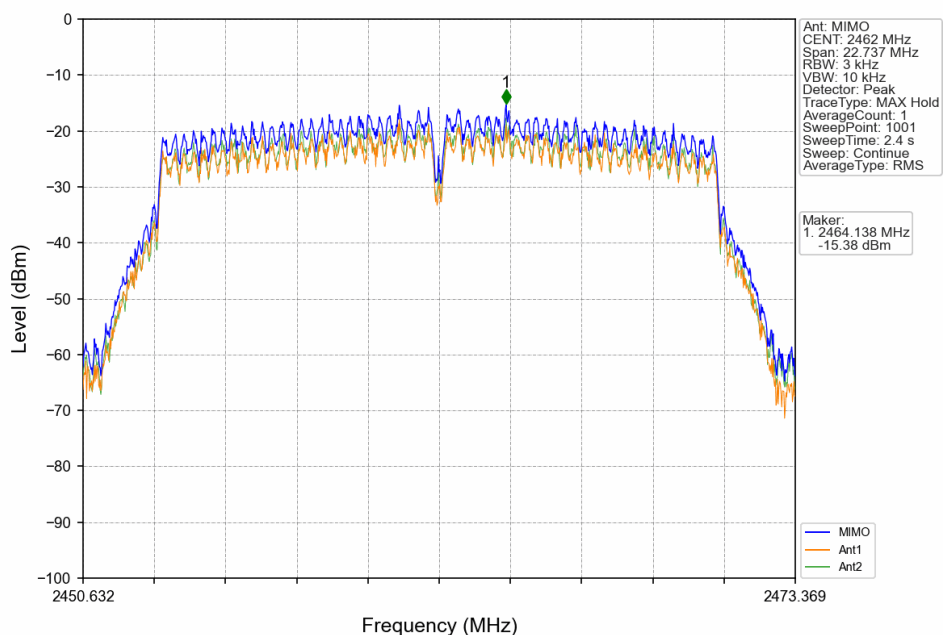
802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTVN



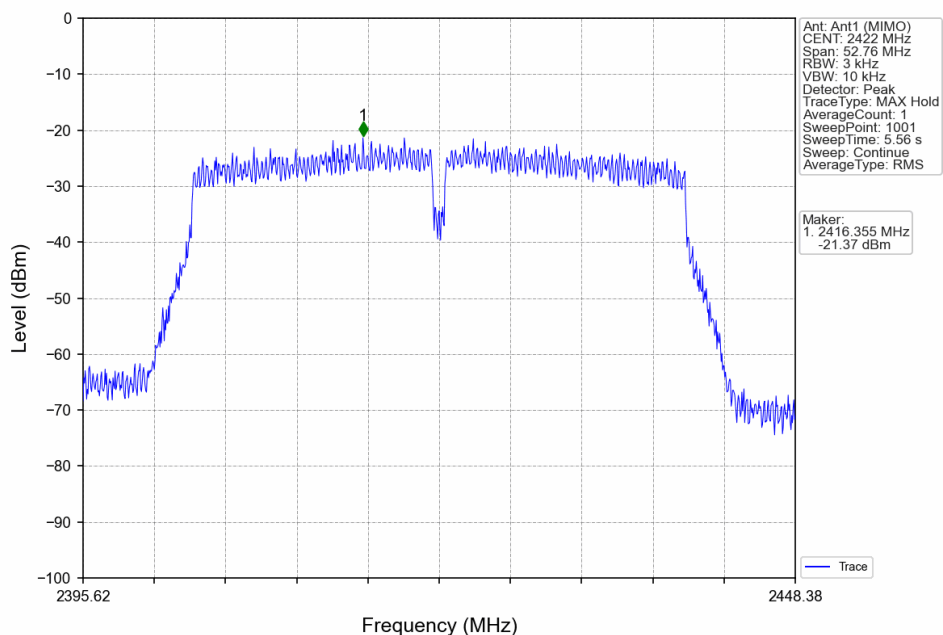
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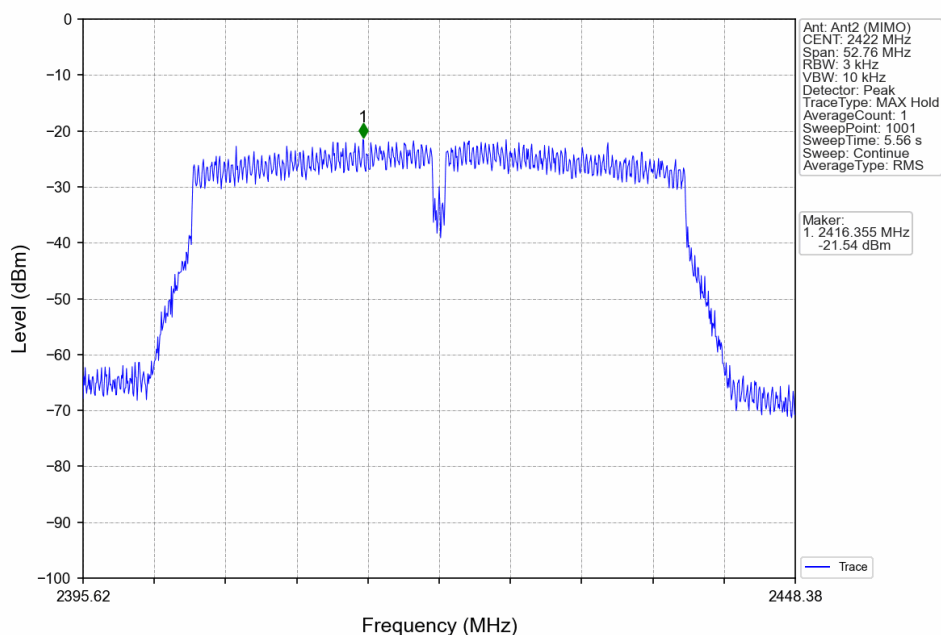
802.11n(HT20) HCH 2462MHz MIMO NTNV



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



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



802.11n(HT40) LCH 2422MHz MIMO NTN

