

Appendix A for SHCR220100002501

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

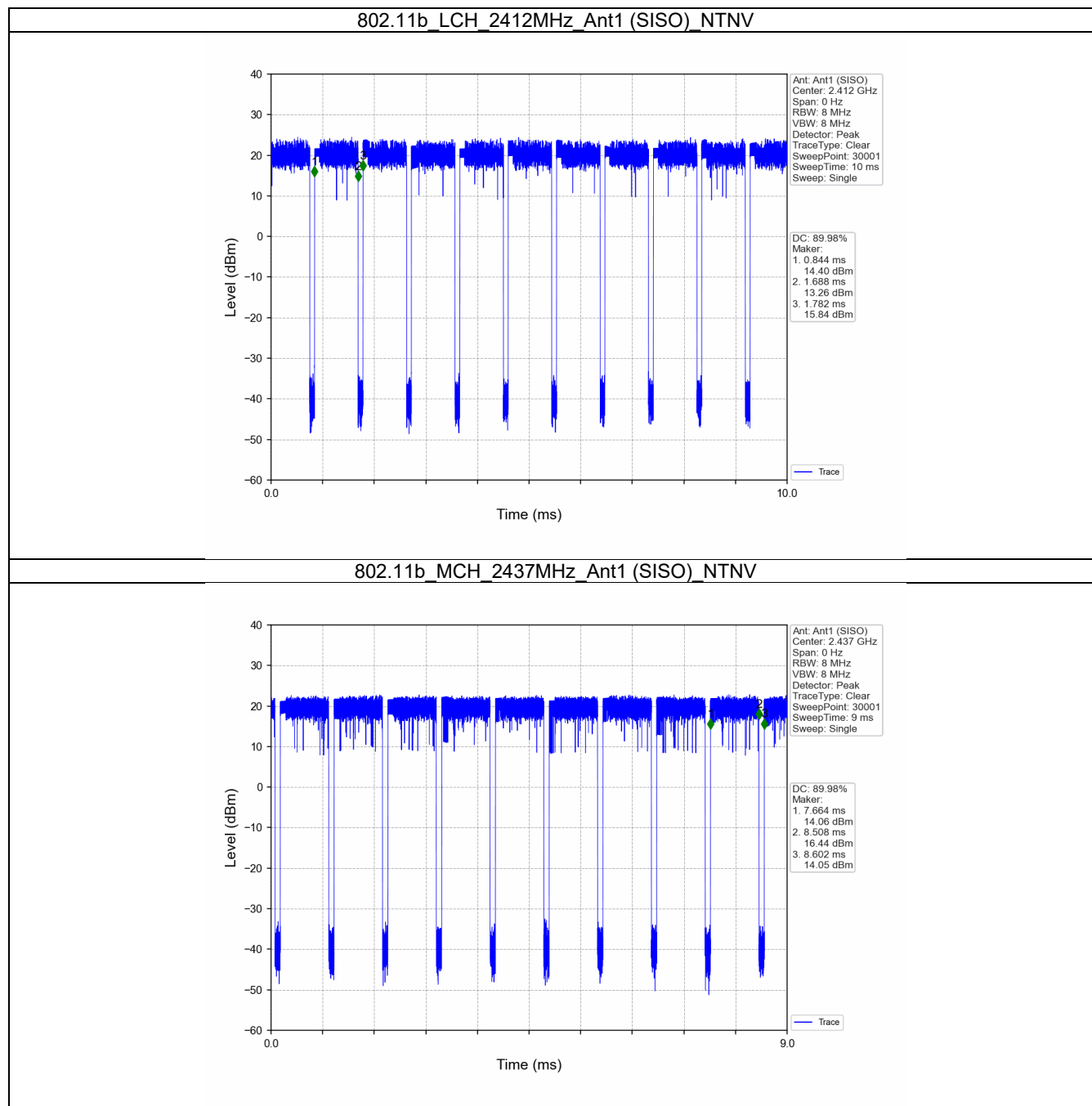
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	0.844	0.938	89.98	0.46	0.04
		2437	0.844	0.938	89.98	0.46	0.03
		2462	0.843	0.937	89.97	0.46	0.04
802.11g	SISO	2412	2.063	2.093	98.57	0.06	0.04
		2437	2.063	2.093	98.57	0.06	0.04
		2462	2.063	2.093	98.57	0.06	0.00
802.11n (HT20)	MIMO	2412	1.920	2.020	95.05	0.22	0.04
		2437	1.919	2.020	95.00	0.22	0.04
		2462	1.919	2.020	95.00	0.22	0.03

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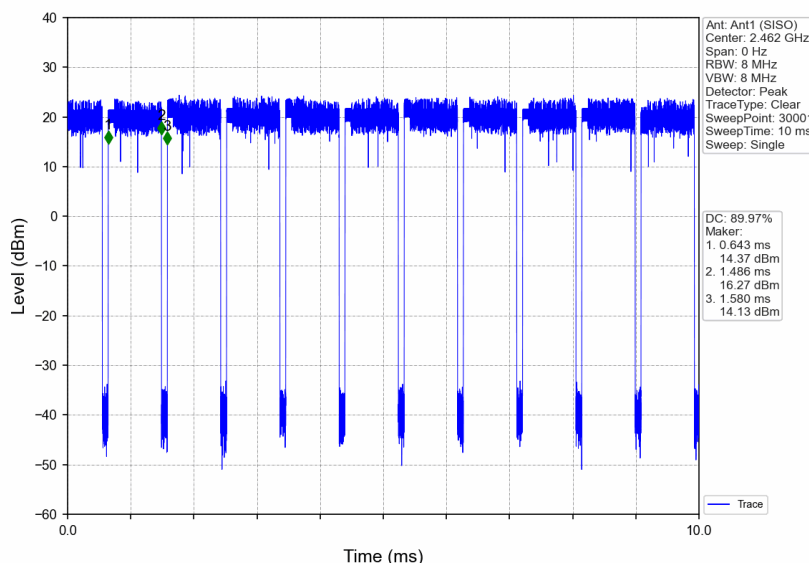
1.1.2 Test Graph



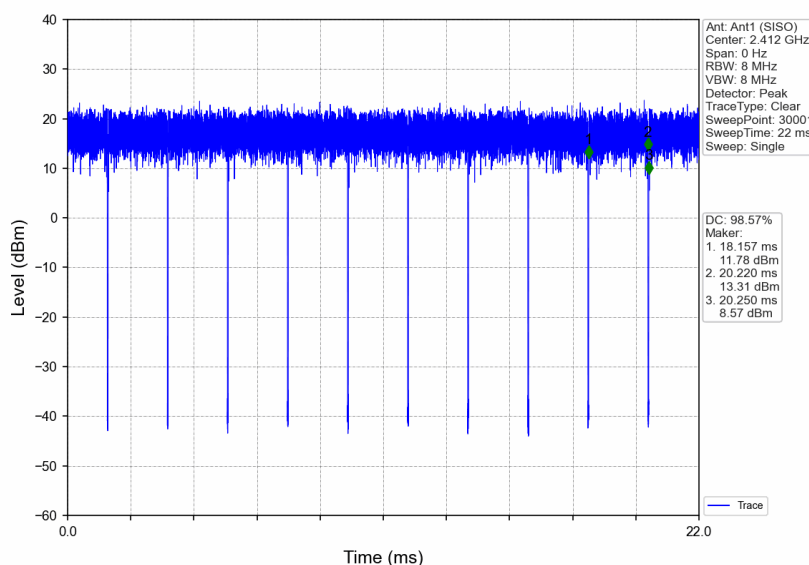
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802.11b HCH 2462MHz Ant1 (SISO) NTN



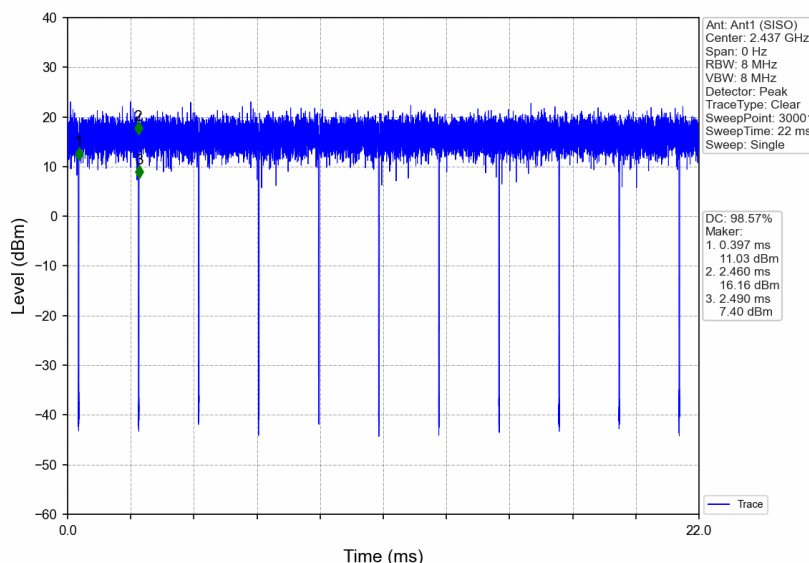
802.11g LCH 2412MHz Ant1 (SISO) NTN



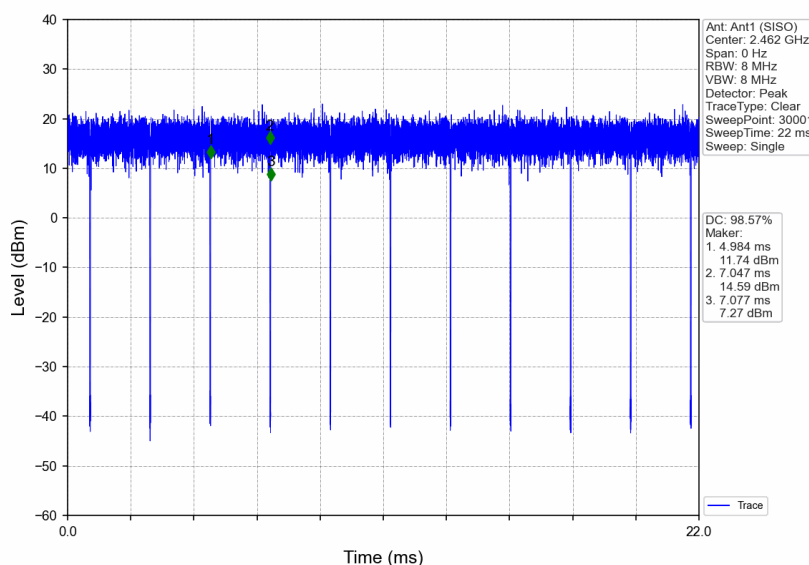
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802.11g MCH 2437MHz Ant1 (SISO) NTN



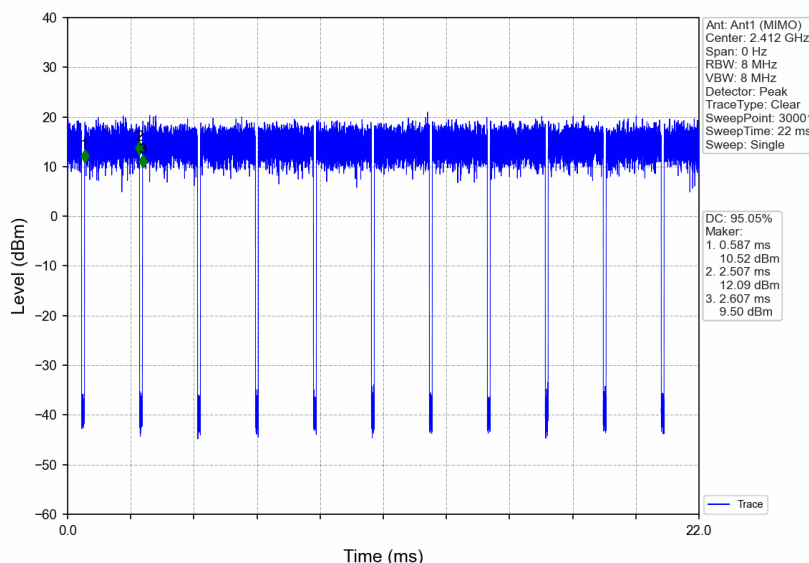
802.11g HCH 2462MHz Ant1 (SISO) NTN



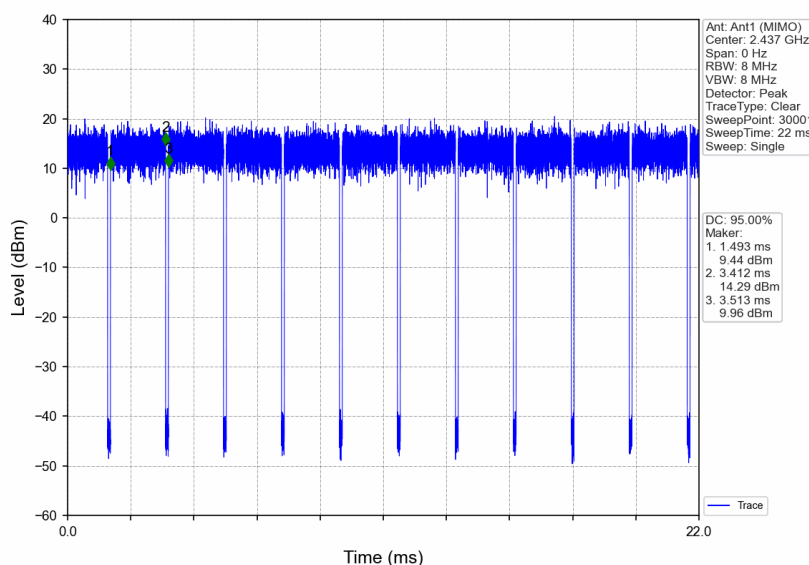
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



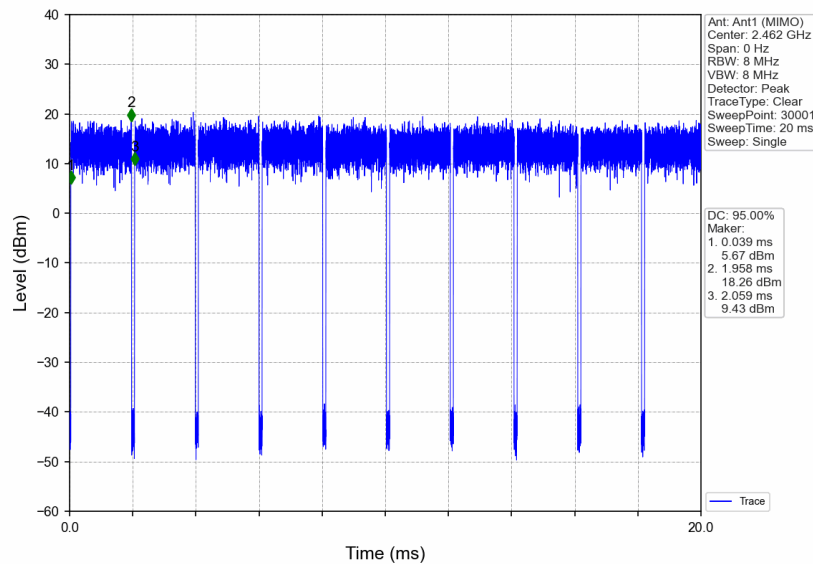
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO) NTN



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



2. Bandwidth

2.1 OBW

2.1.1 Test Result

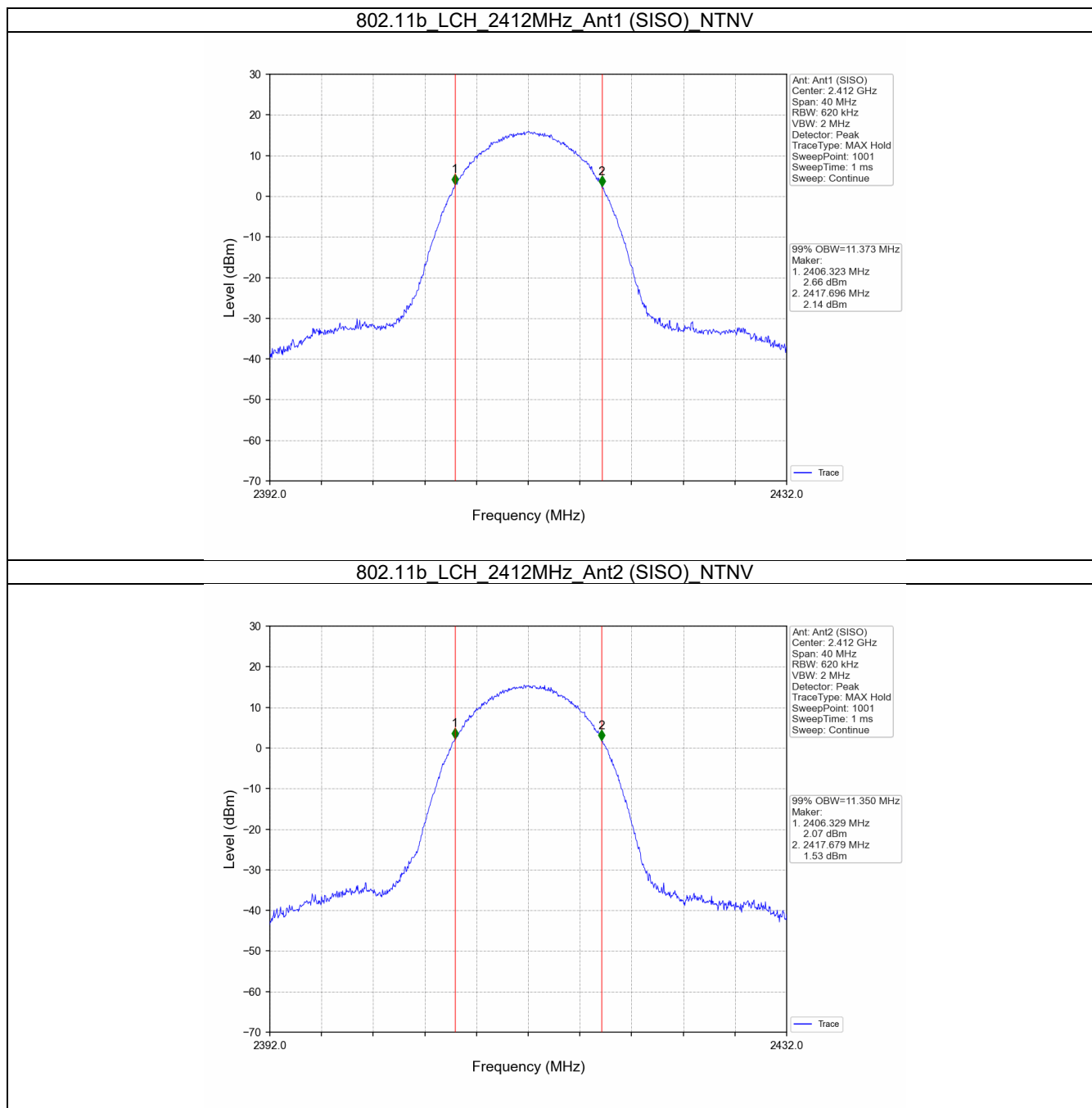
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	11.373	Pass
			2	11.350	Pass
		2437	1	11.367	Pass
			2	11.340	Pass
		2462	1	11.379	Pass
			2	11.356	Pass
802.11g	SISO	2412	1	20.844	Pass
			2	19.362	Pass
		2437	1	18.005	Pass
			2	17.898	Pass
		2462	1	17.935	Pass
			2	17.931	Pass
802.11n (HT20)	MIMO	2412	1	18.929	Pass
			2	18.270	Pass
		2437	1	18.968	Pass
			2	18.284	Pass
		2462	1	18.906	Pass
			2	18.259	Pass



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2.1.2 Test Graph



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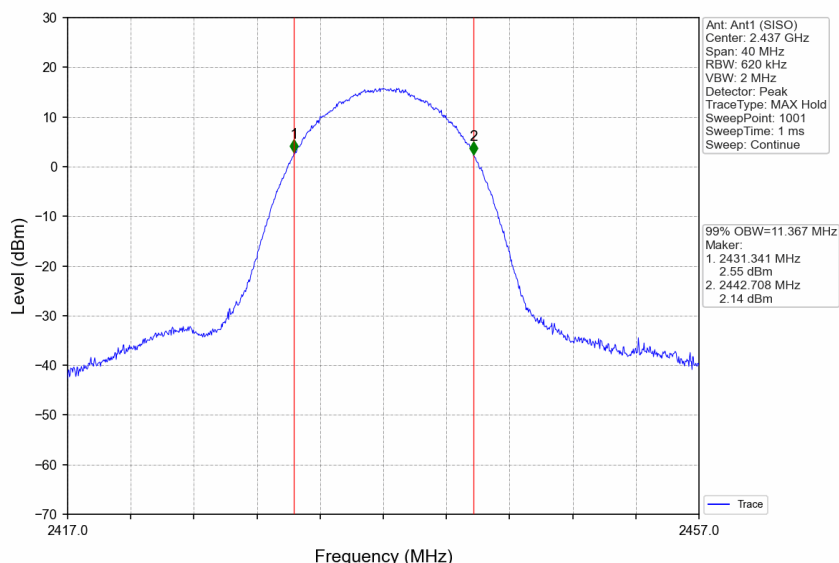
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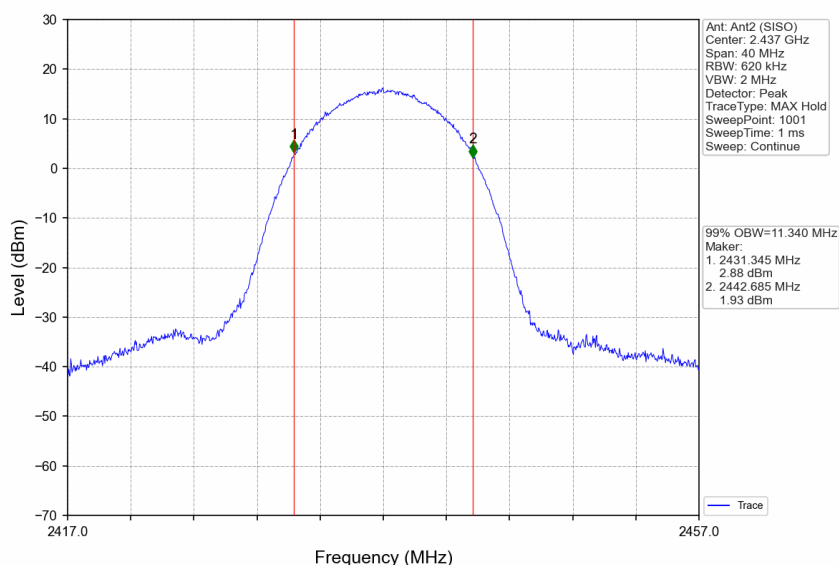
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802.11b MCH 2437MHz Ant1 (SISO) NTN



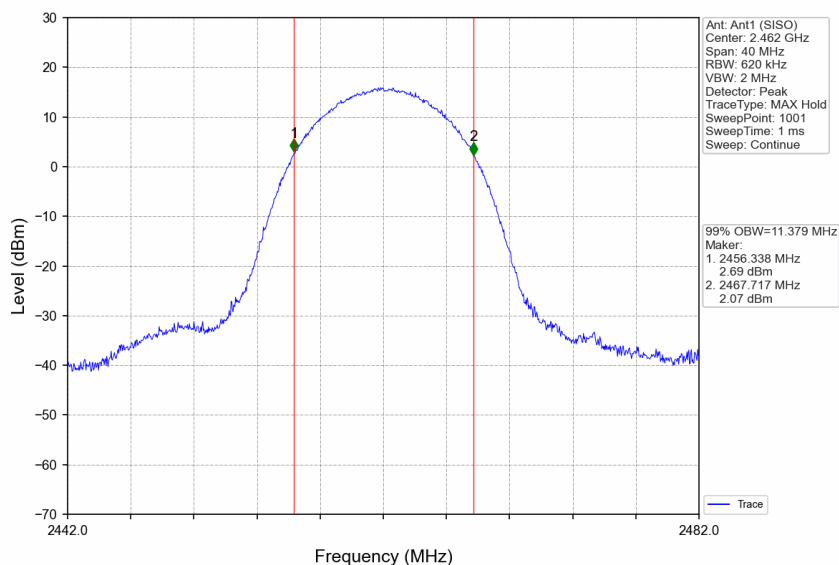
802.11b MCH 2437MHz Ant2 (SISO) NTN



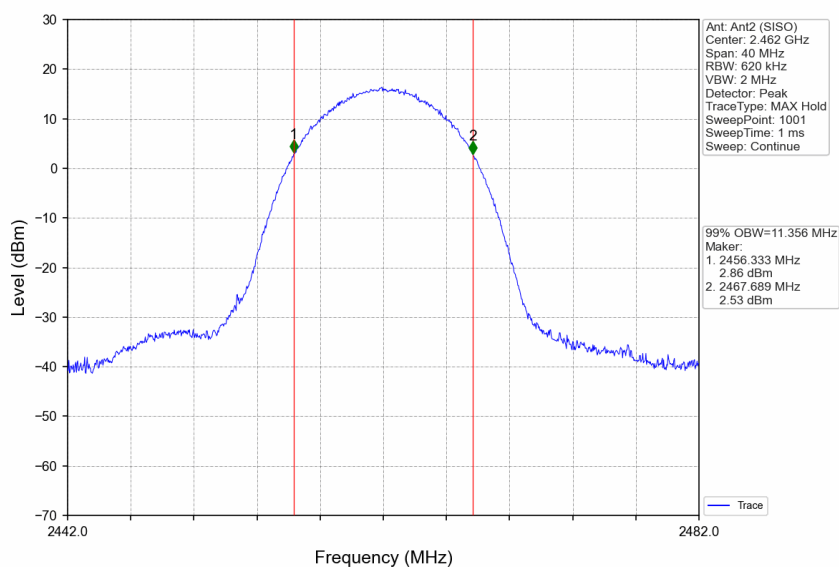
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



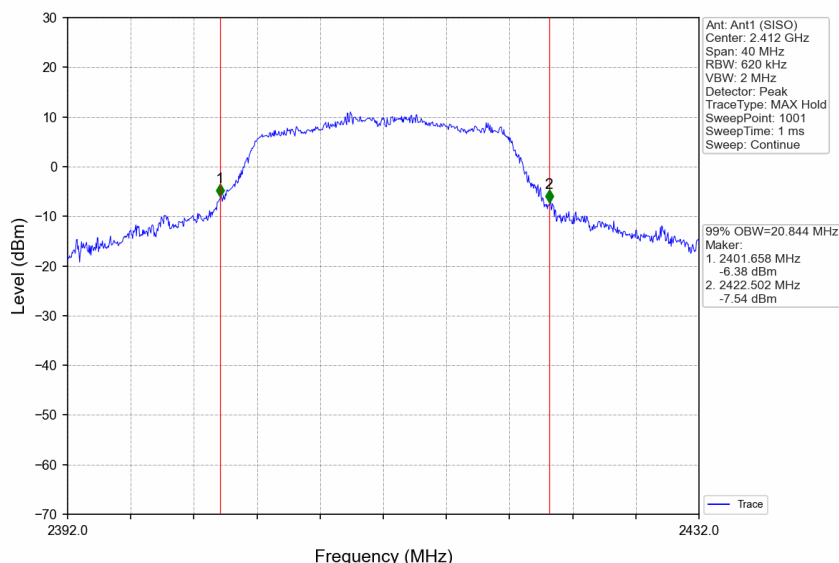
802.11b HCH 2462MHz Ant2 (SISO) NTNV



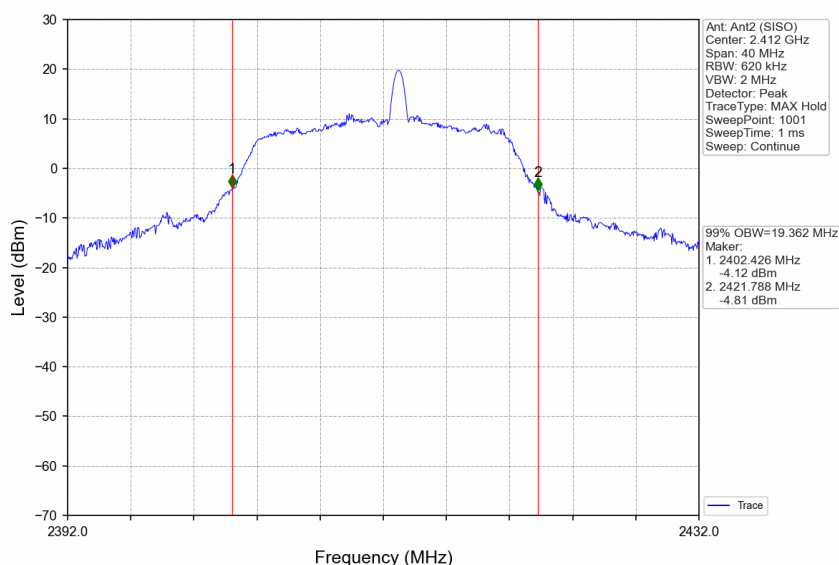
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



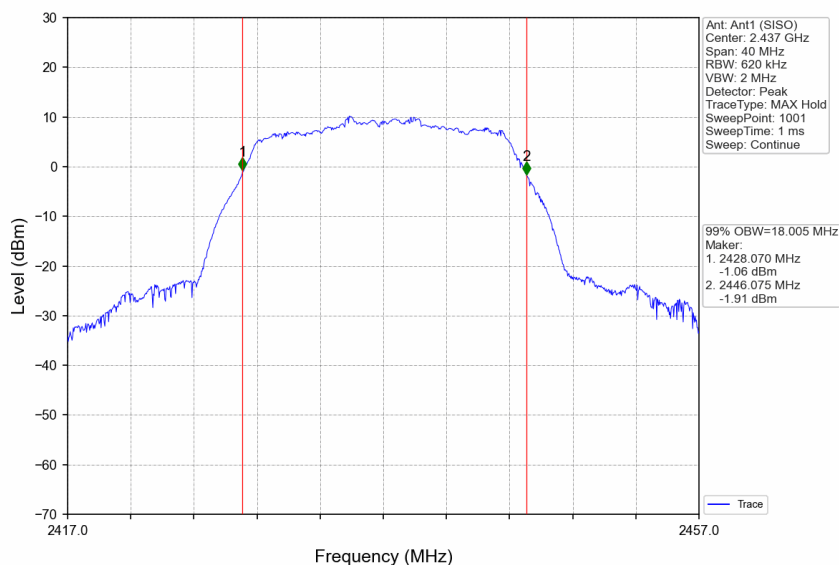
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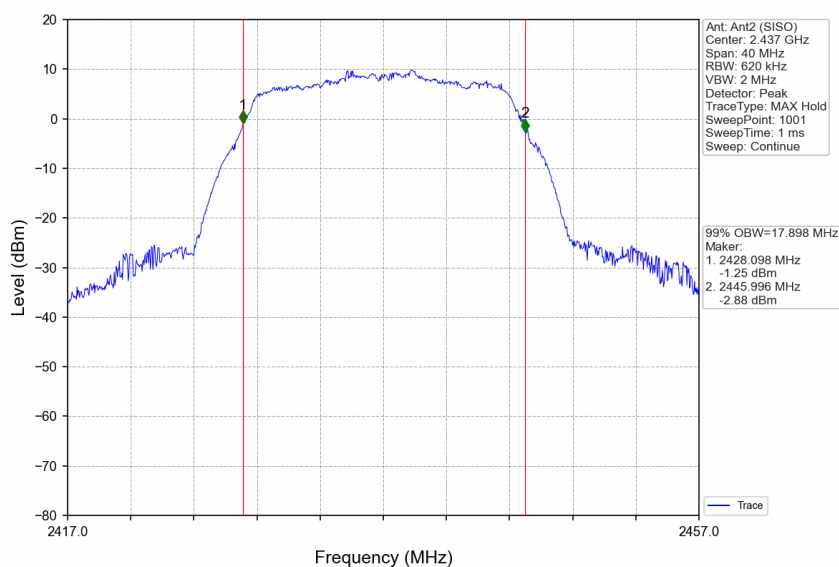
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802.11g MCH 2437MHz Ant1 (SISO) NTN



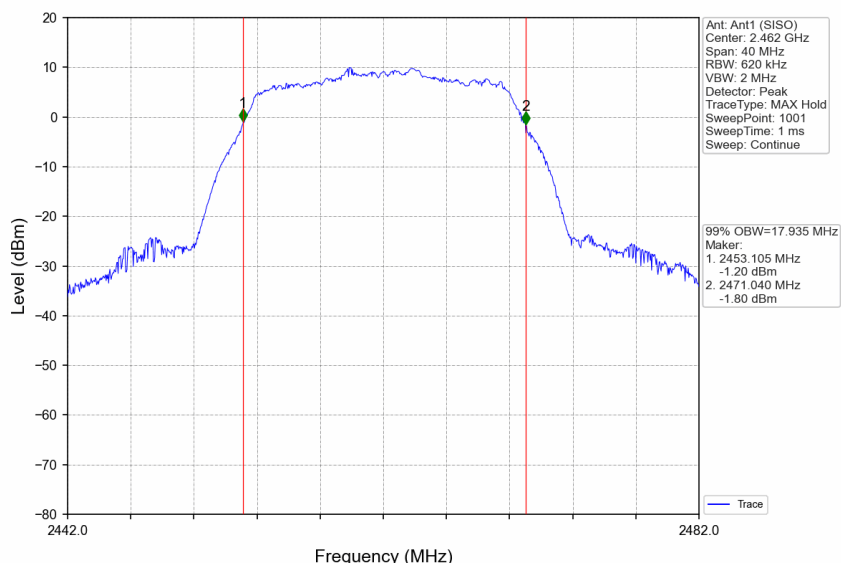
802.11g MCH 2437MHz Ant2 (SISO) NTN



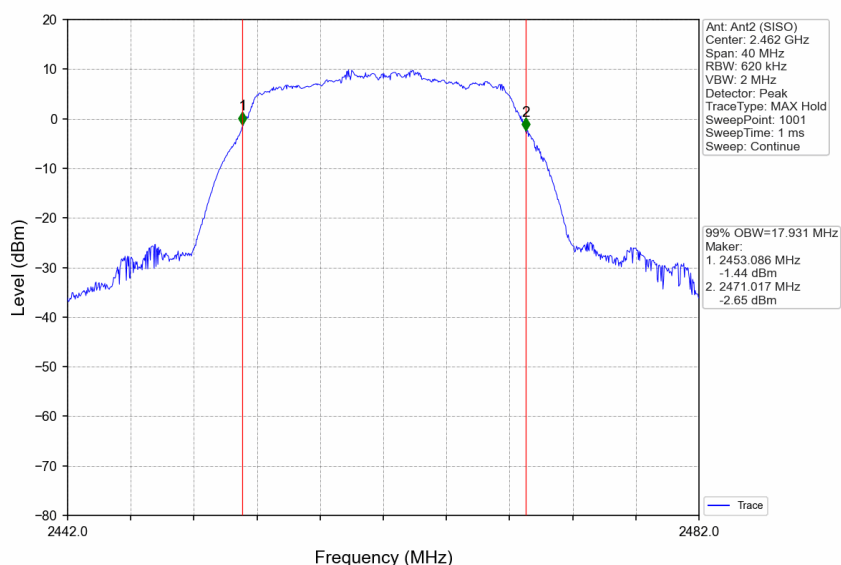
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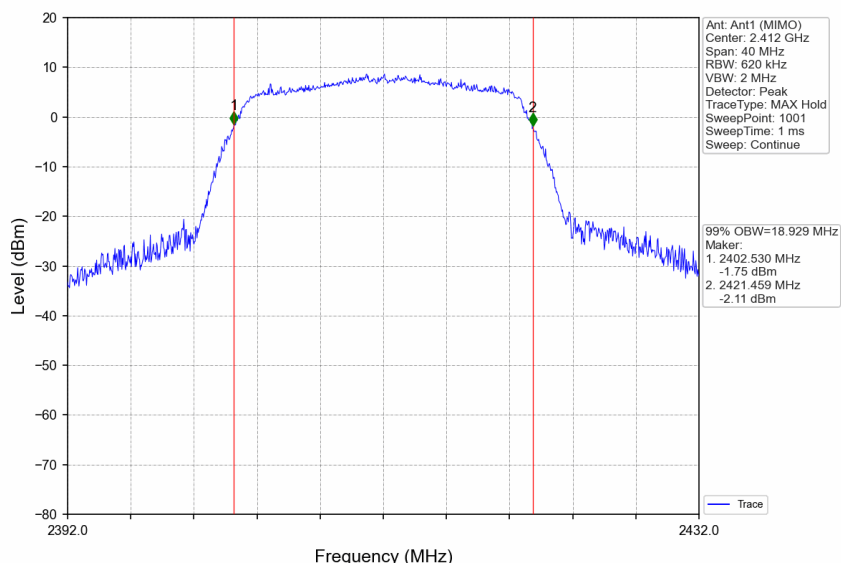
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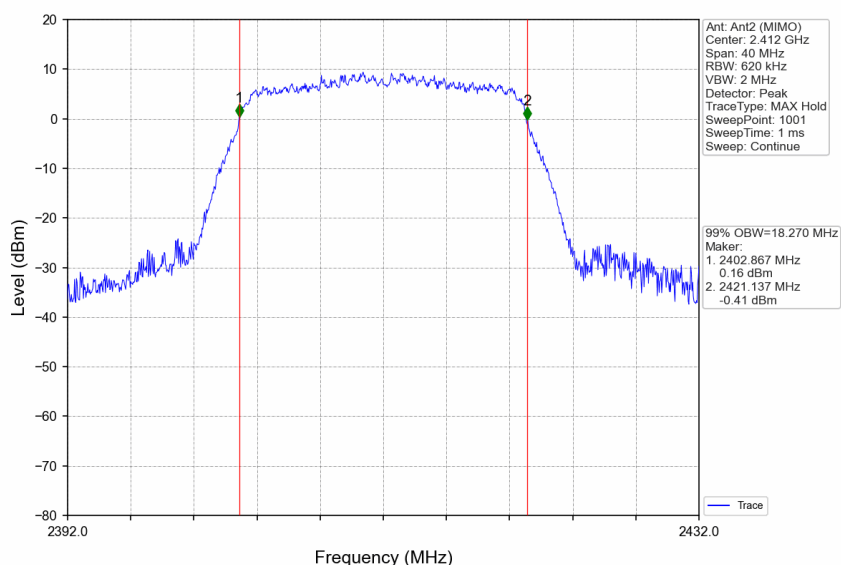
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



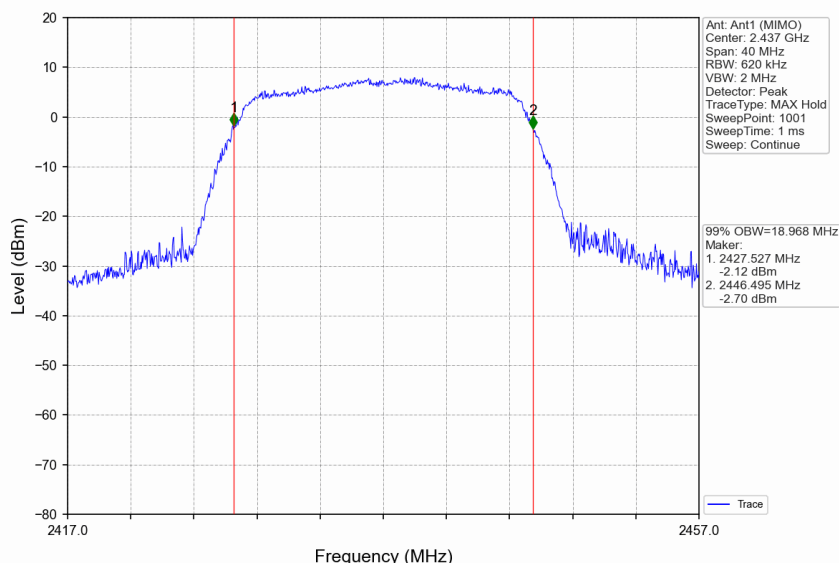
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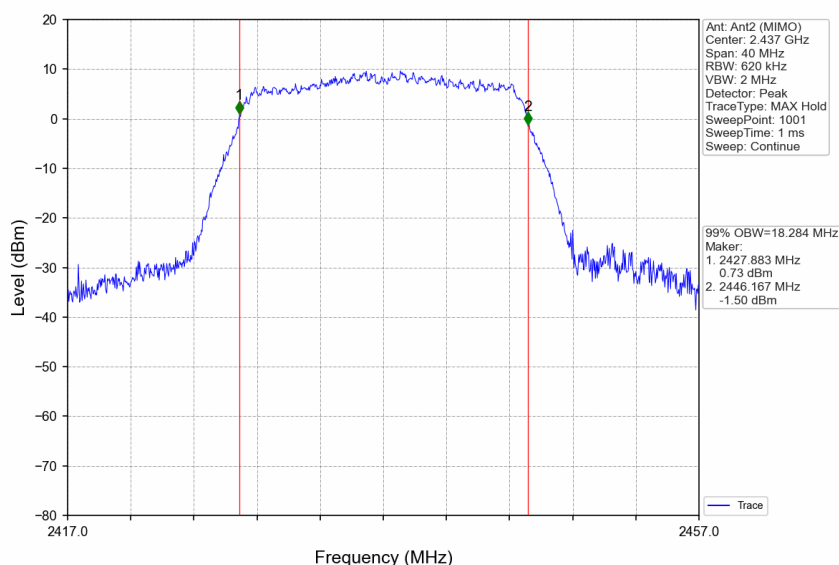
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



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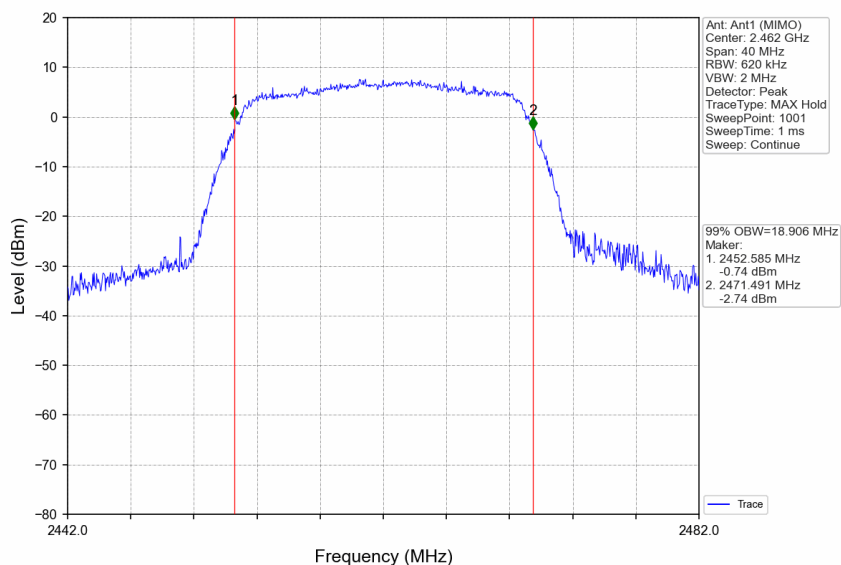
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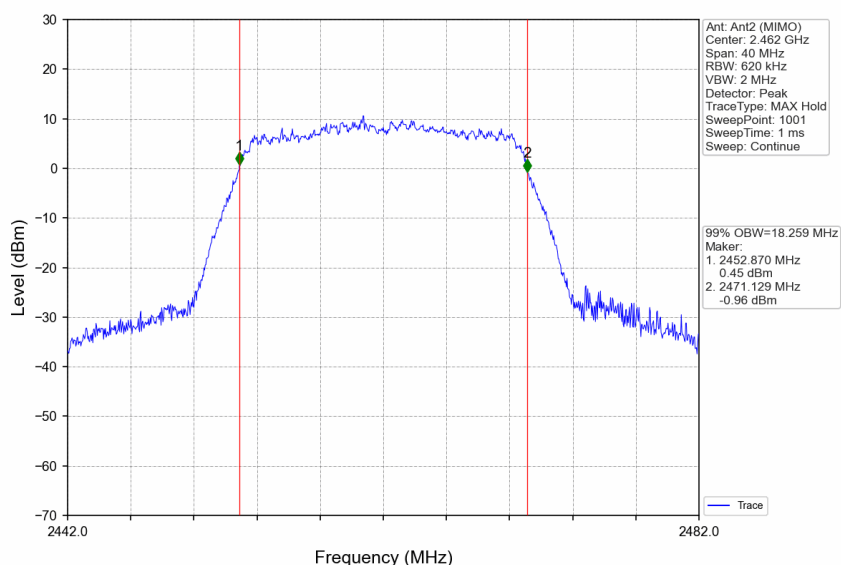
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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2.2 6dB BW

2.2.1 Test Result

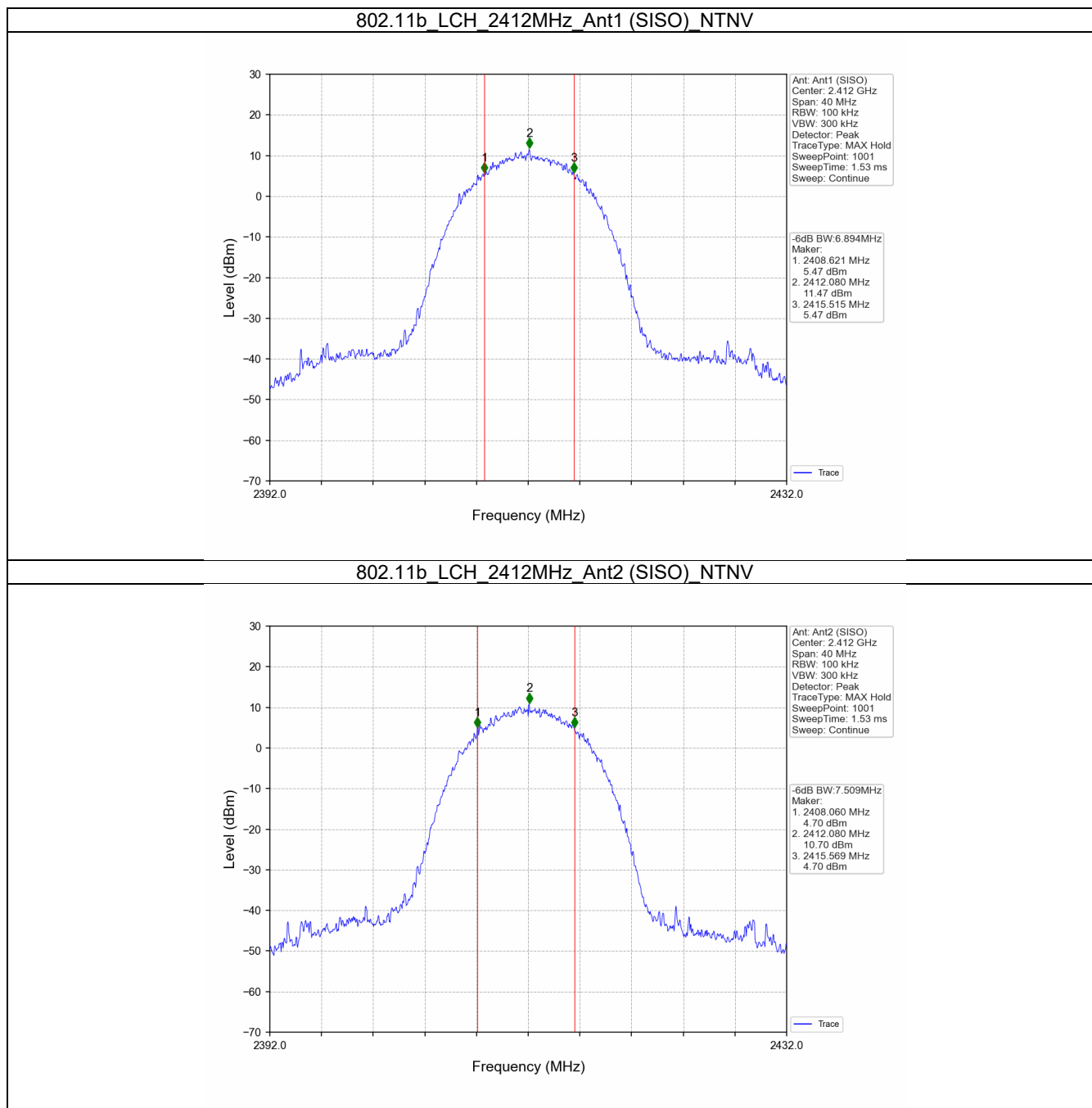
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	6.894	≥ 0.5	Pass
			2	7.509	≥ 0.5	Pass
		2437	1	7.214	≥ 0.5	Pass
			2	7.615	≥ 0.5	Pass
		2462	1	8.256	≥ 0.5	Pass
			2	7.366	≥ 0.5	Pass
802.11g	SISO	2412	1	16.393	≥ 0.5	Pass
			2	16.395	≥ 0.5	Pass
		2437	1	16.366	≥ 0.5	Pass
			2	16.371	≥ 0.5	Pass
		2462	1	16.372	≥ 0.5	Pass
			2	16.376	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.625	≥ 0.5	Pass
			2	17.620	≥ 0.5	Pass
		2437	1	17.602	≥ 0.5	Pass
			2	17.620	≥ 0.5	Pass
		2462	1	17.594	≥ 0.5	Pass
			2	17.624	≥ 0.5	Pass



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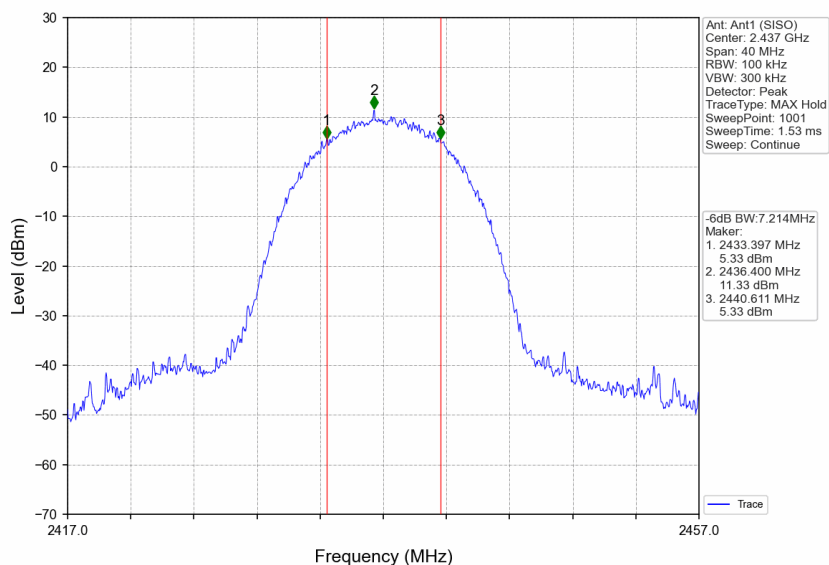
2.2.2 Test Graph



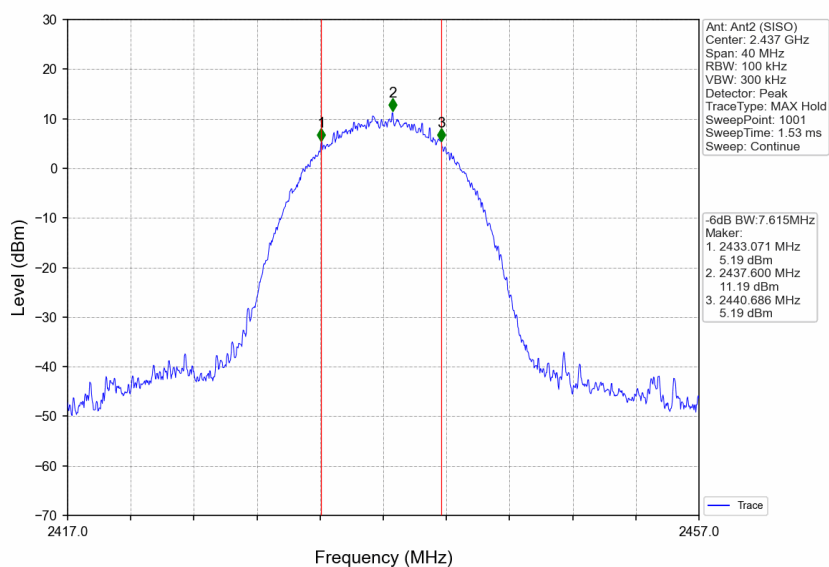
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802.11b MCH 2437MHz Ant1 (SISO) NTN



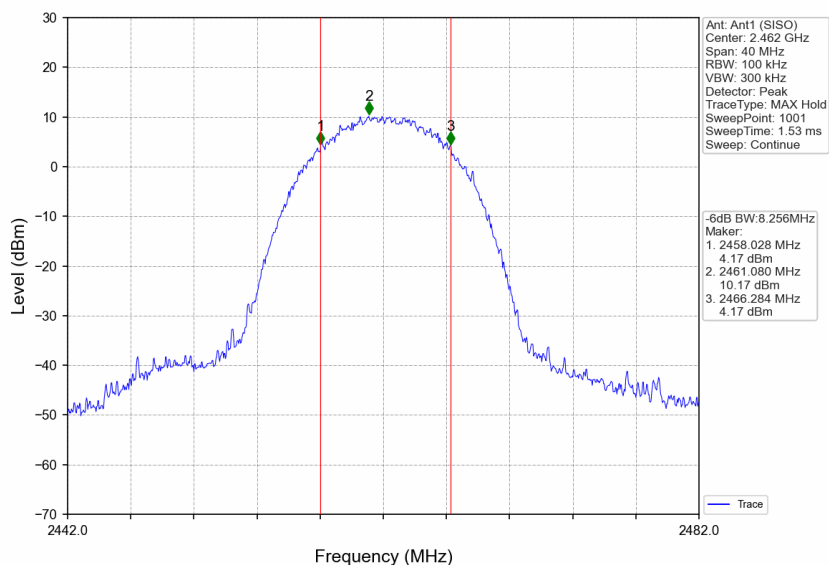
802.11b MCH 2437MHz Ant2 (SISO) NTN



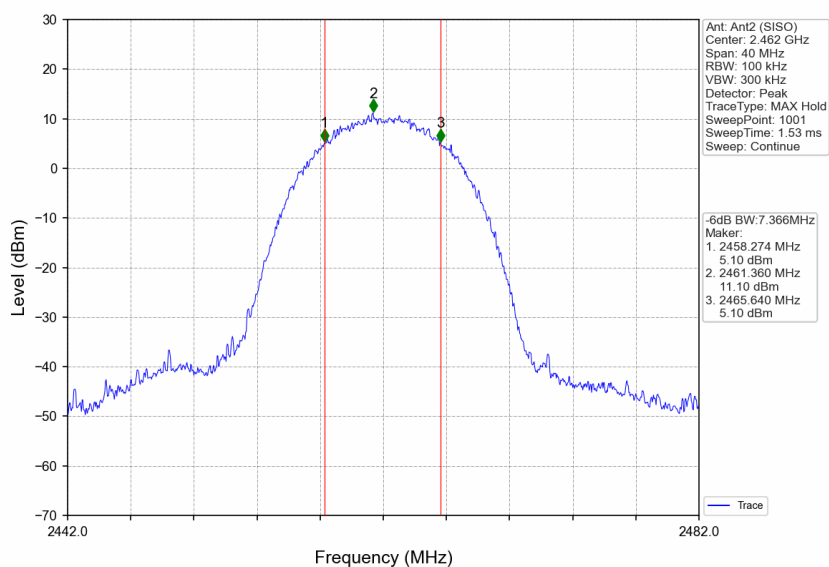
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802.11b HCH 2462MHz Ant1 (SISO) NTN



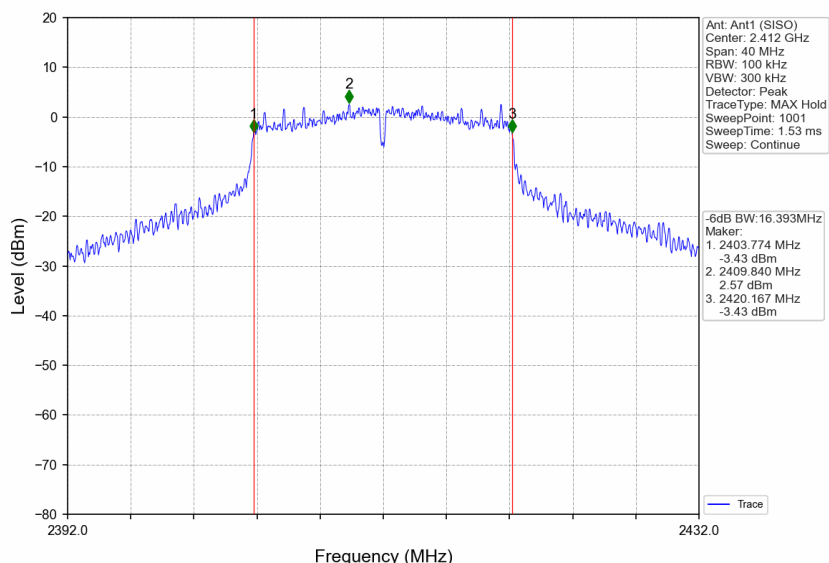
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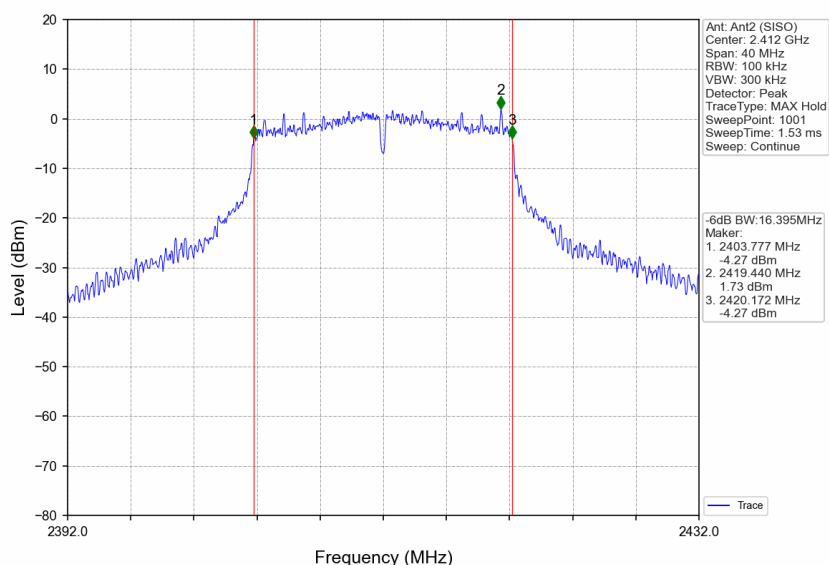
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



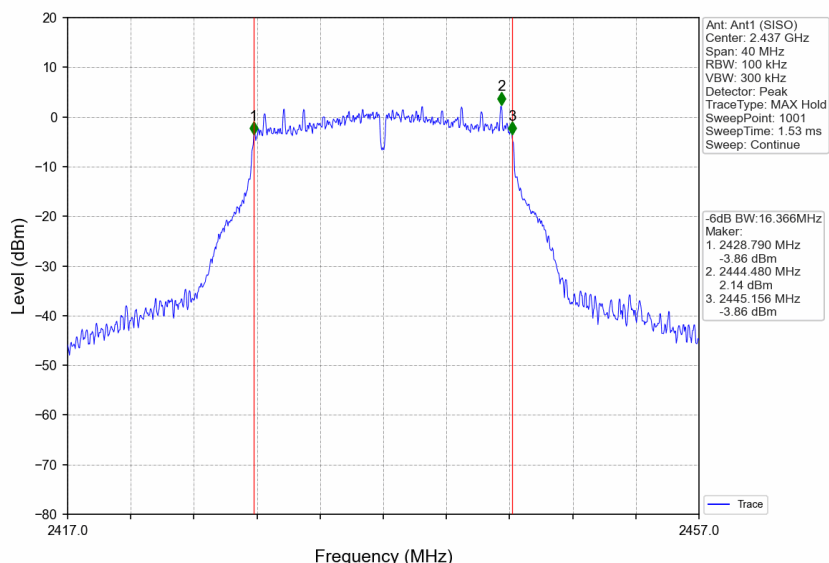
802.11g LCH 2412MHz Ant2 (SISO) NTNV



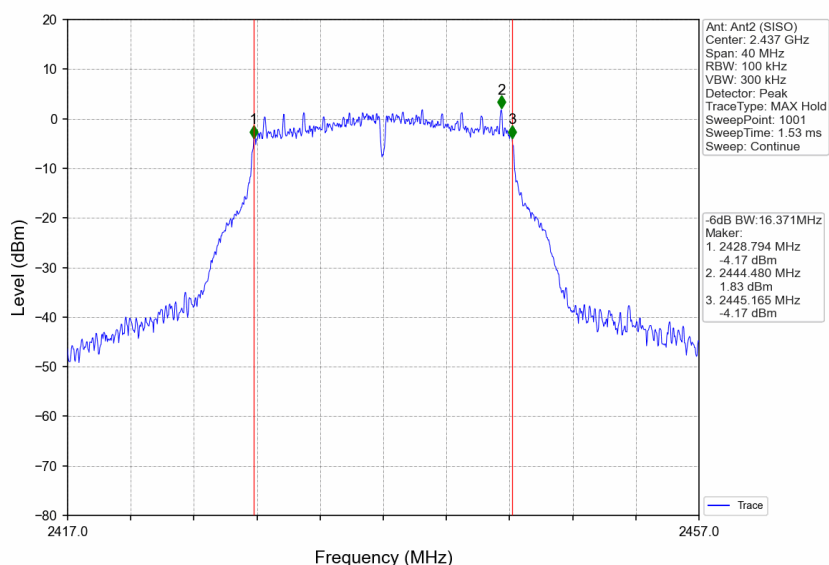
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802.11g MCH 2437MHz Ant1 (SISO) NTN



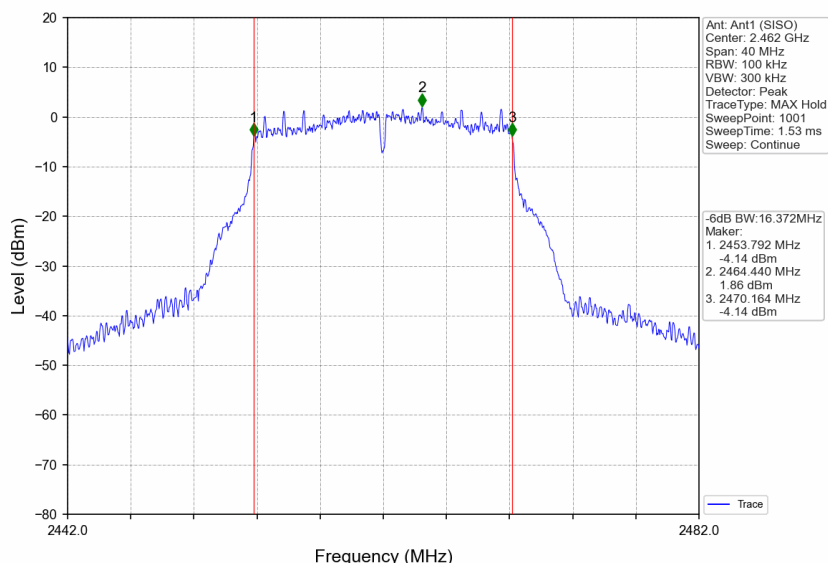
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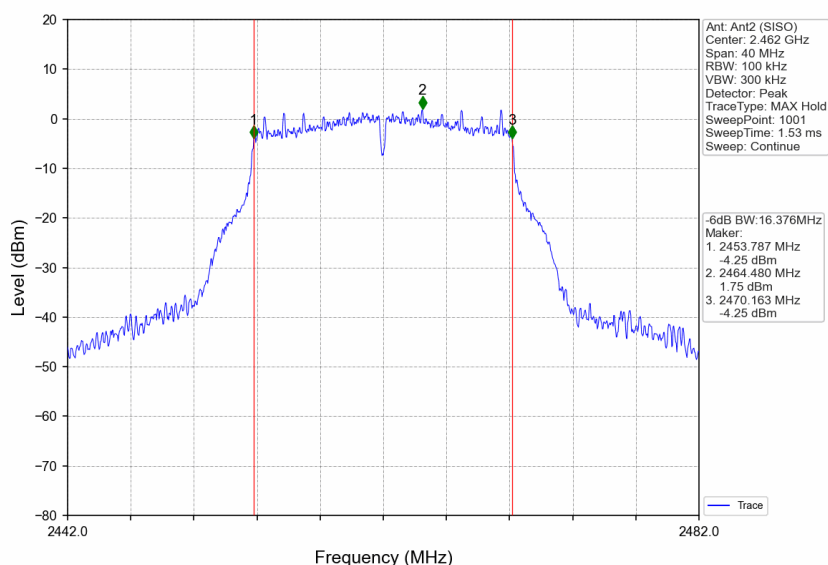
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802.11g HCH 2462MHz Ant1 (SISO) NTN



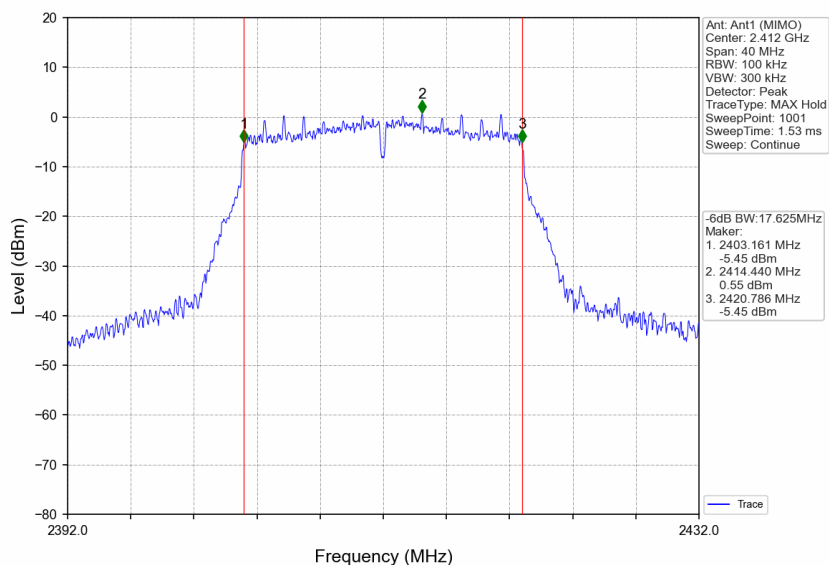
802.11g HCH 2462MHz Ant2 (SISO) NTN



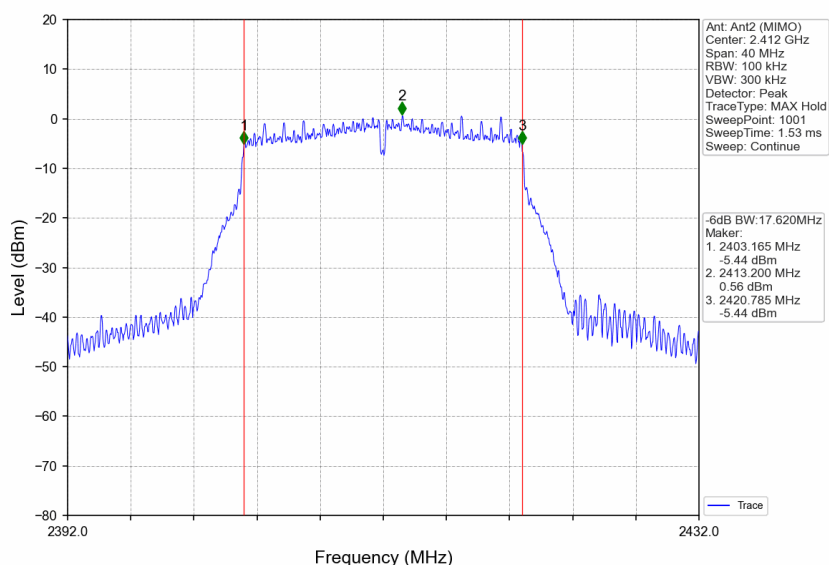
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



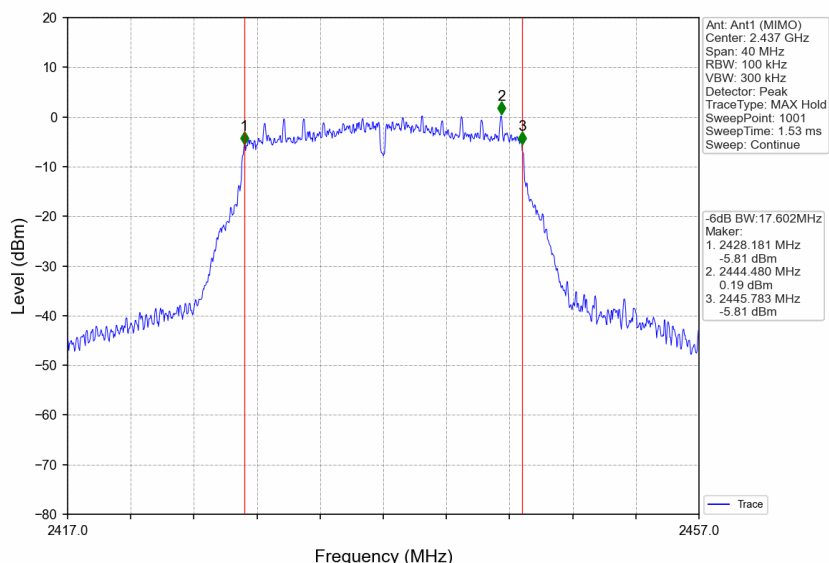
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



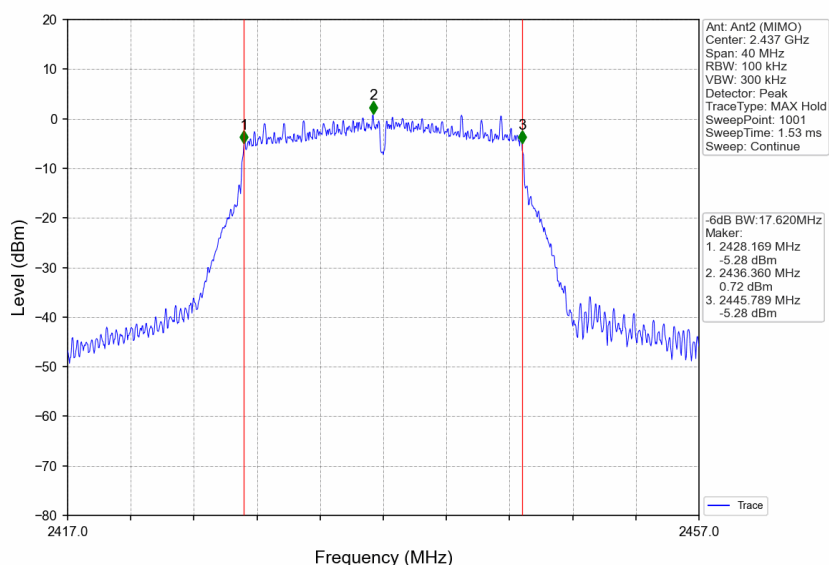
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTV



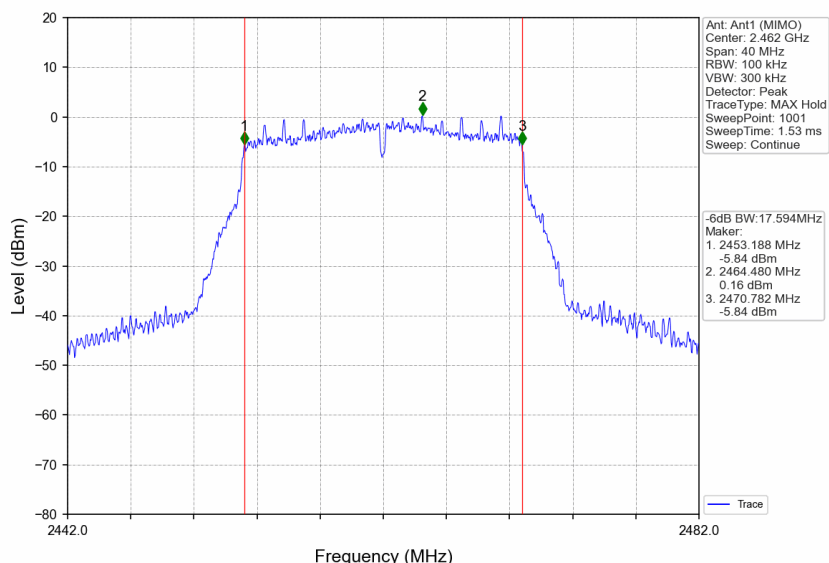
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTV



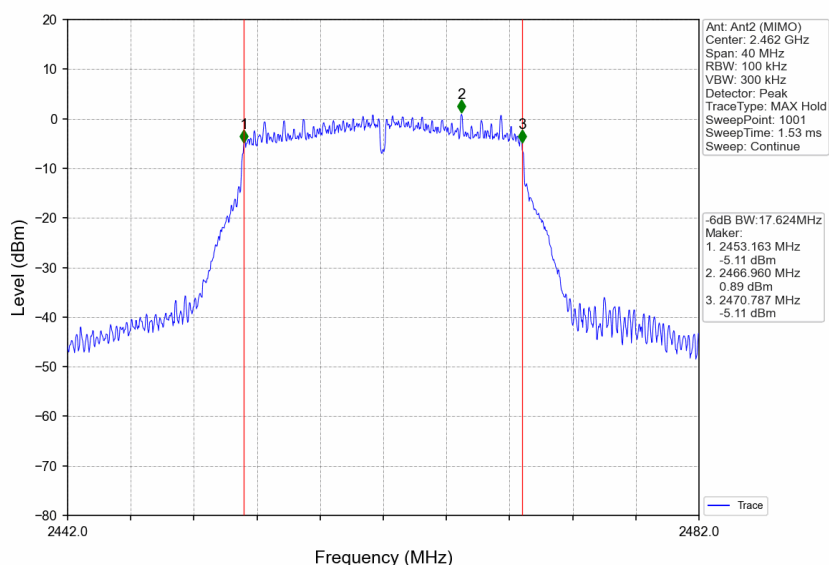
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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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	18.43	18.03	/	<=30	Pass
		2437	18.29	18.33	/	<=30	Pass
		2462	18.43	18.67	/	<=30	Pass
802.11g	SISO	2412	14.79	14.11	/	<=30	Pass
		2437	14.14	13.82	/	<=30	Pass
		2462	13.97	13.87	/	<=30	Pass
802.11n (HT20)	MIMO	2412	12.63	12.02	15.35	<=28.42	Pass
		2437	12.10	12.30	15.21	<=28.42	Pass
		2462	11.99	12.54	15.28	<=28.42	Pass

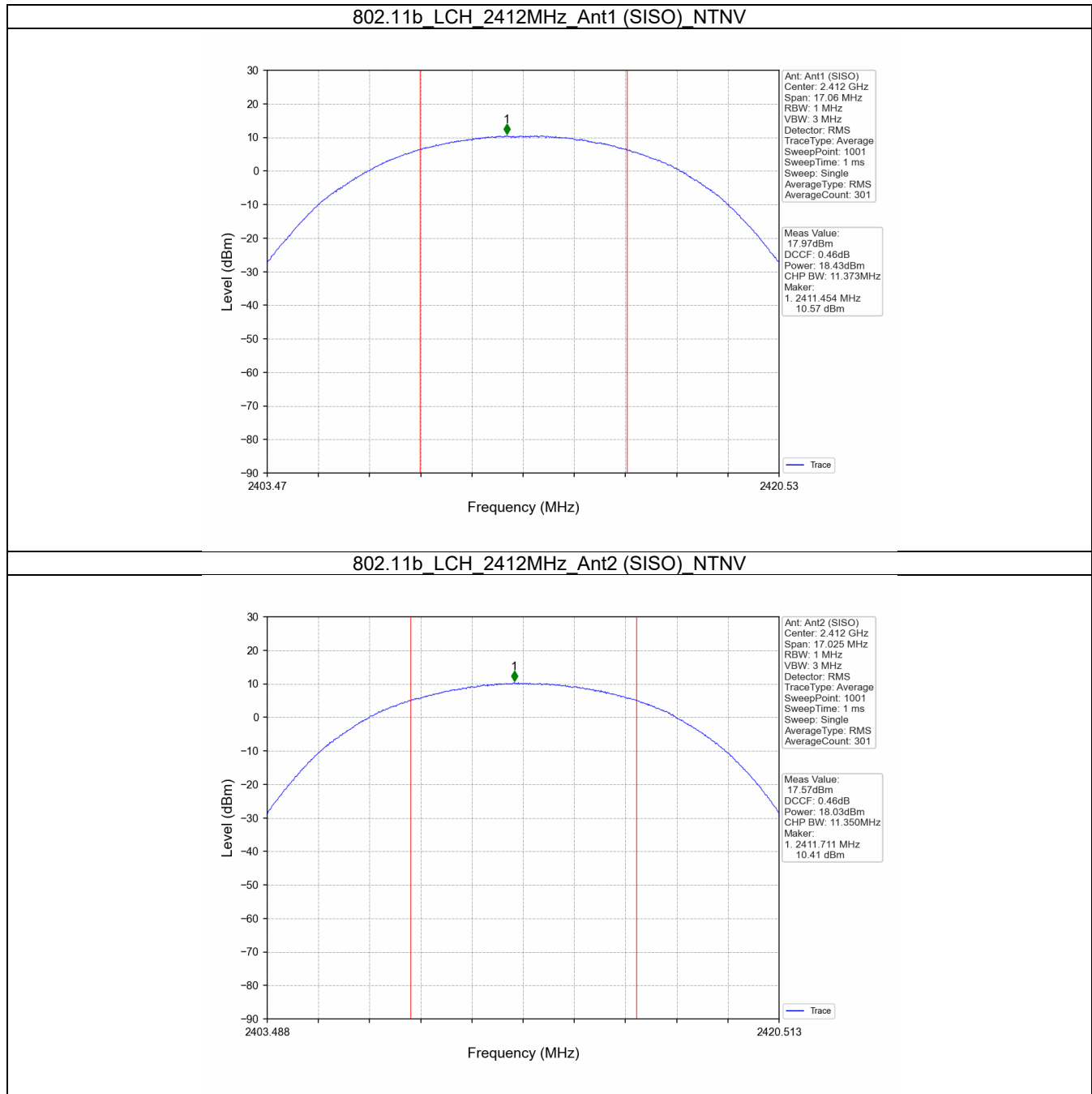
Note1: Antenna Gain: Ant1: 4.80dBi; Ant2: 4.34dBi;
Note2: Directional Gain: 7.58dBi



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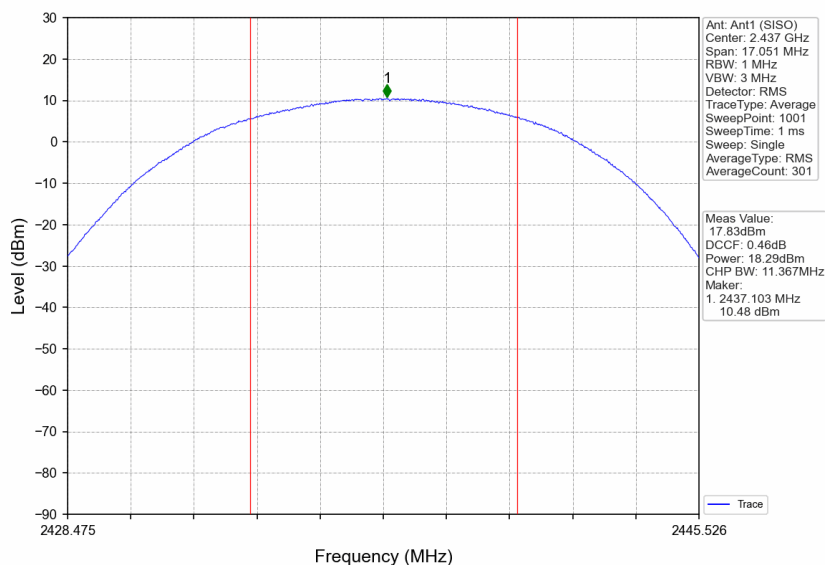
3.1.2 Test Graph



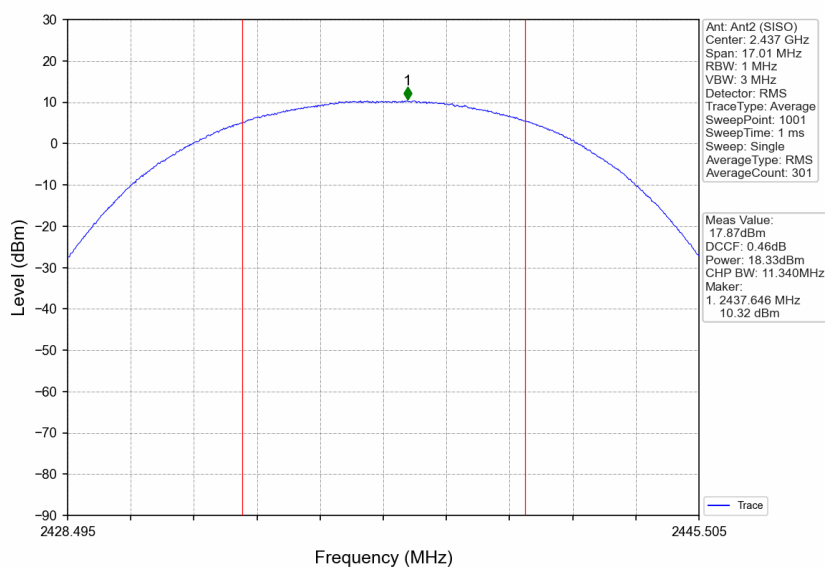
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802.11b MCH 2437MHz Ant1 (SISO) NTN



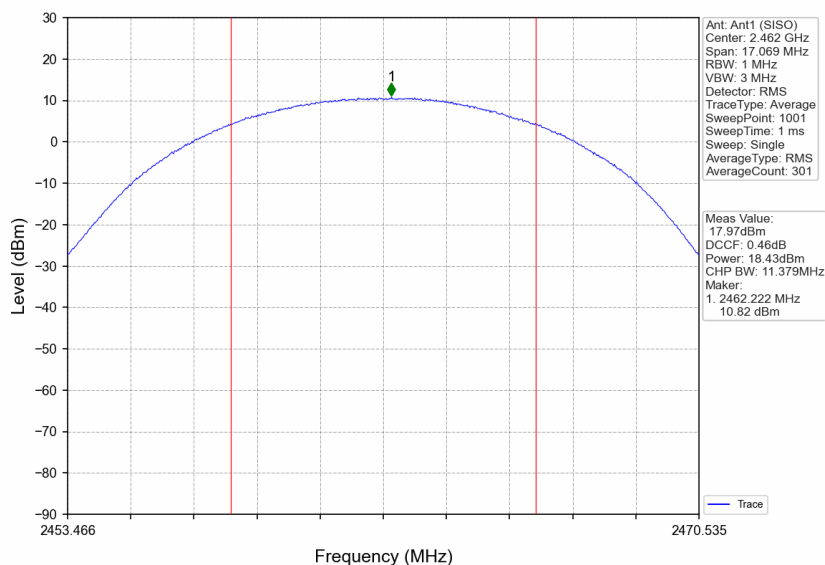
802.11b MCH 2437MHz Ant2 (SISO) NTN



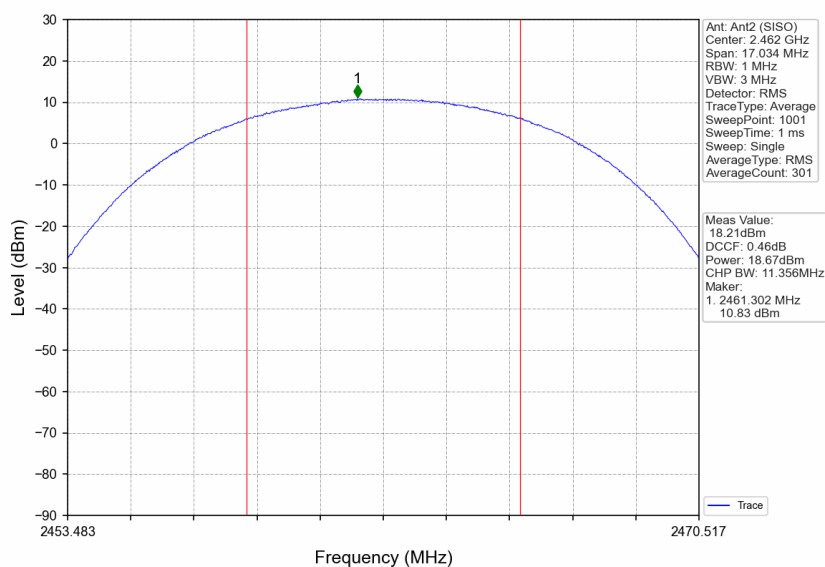
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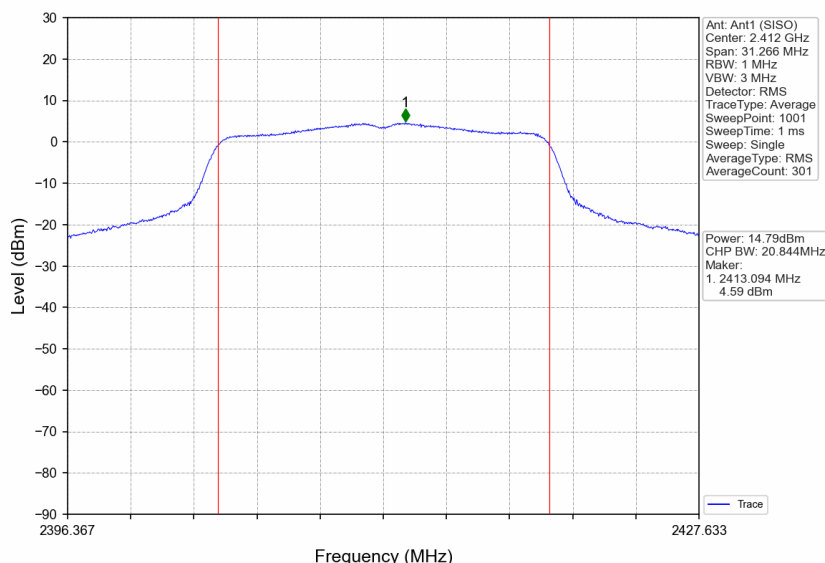
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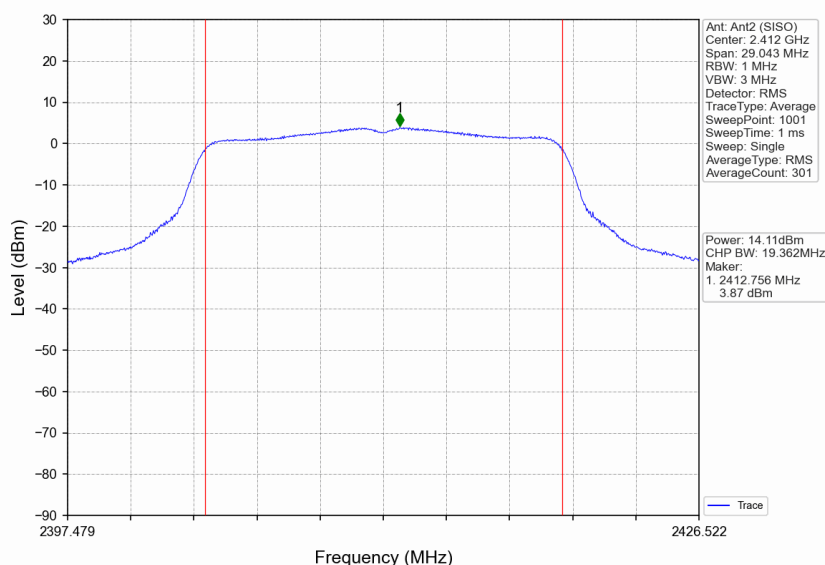
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



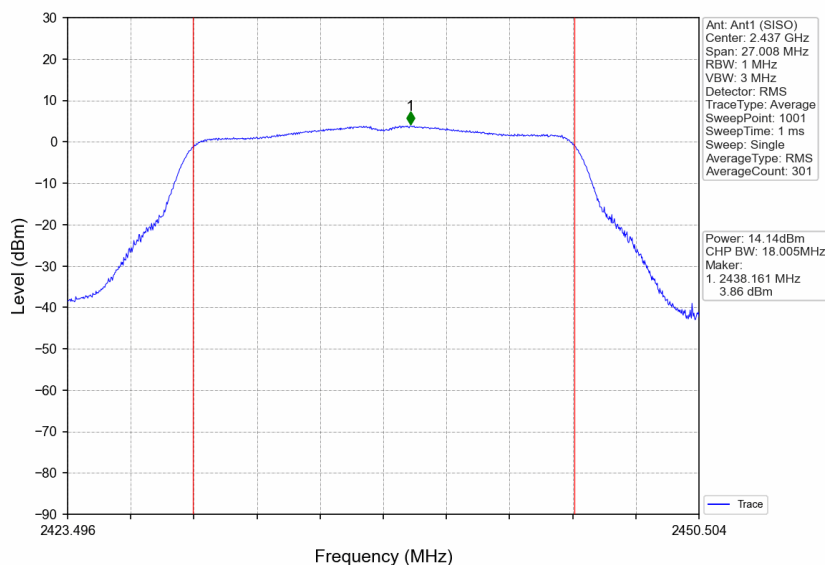
802.11g LCH 2412MHz Ant2 (SISO) NTNV



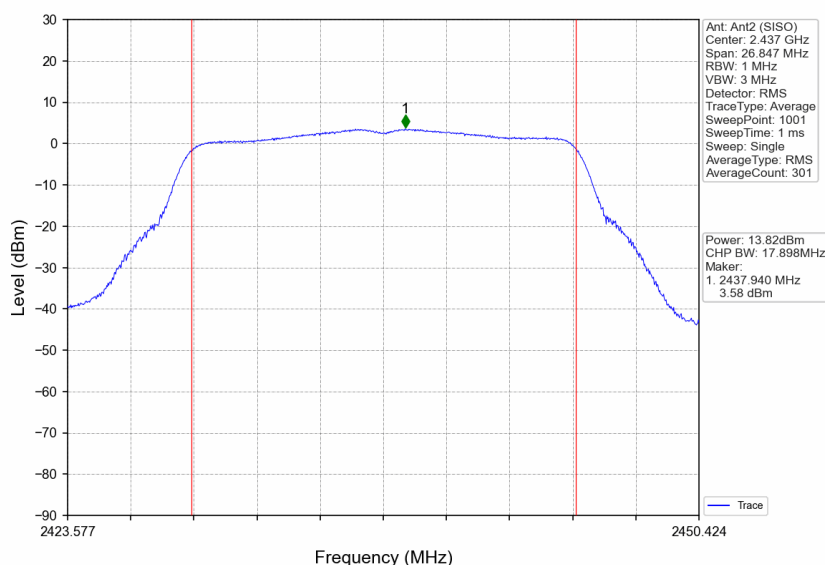
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802.11g MCH 2437MHz Ant1 (SISO) NTN



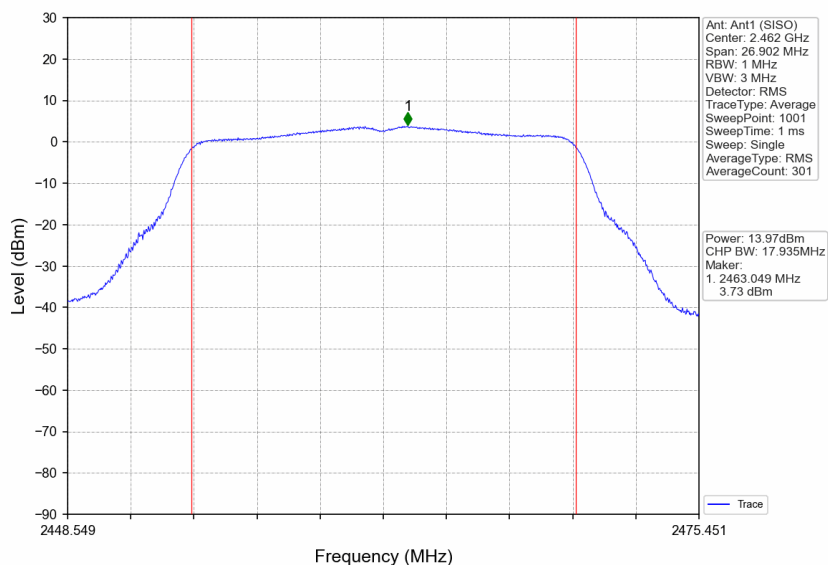
802.11g MCH 2437MHz Ant2 (SISO) NTN



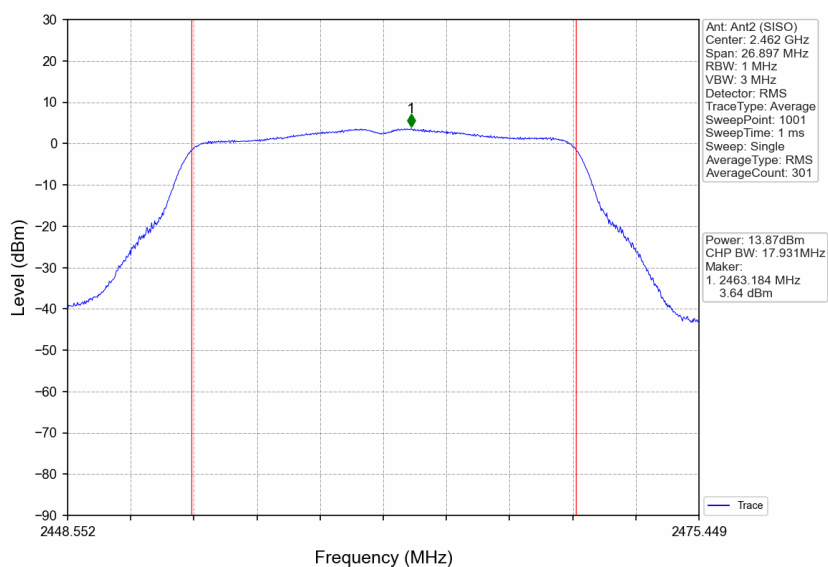
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802.11g HCH 2462MHz Ant1 (SISO) NTN



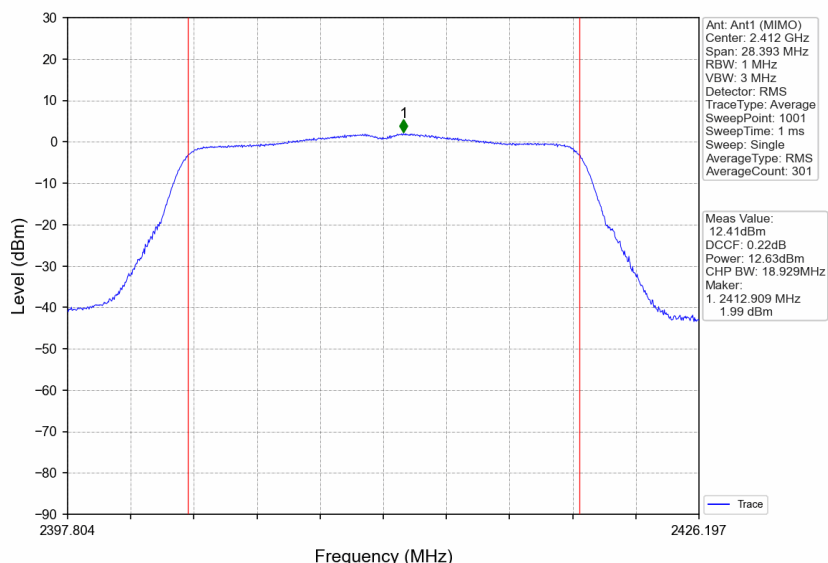
802.11g HCH 2462MHz Ant2 (SISO) NTN



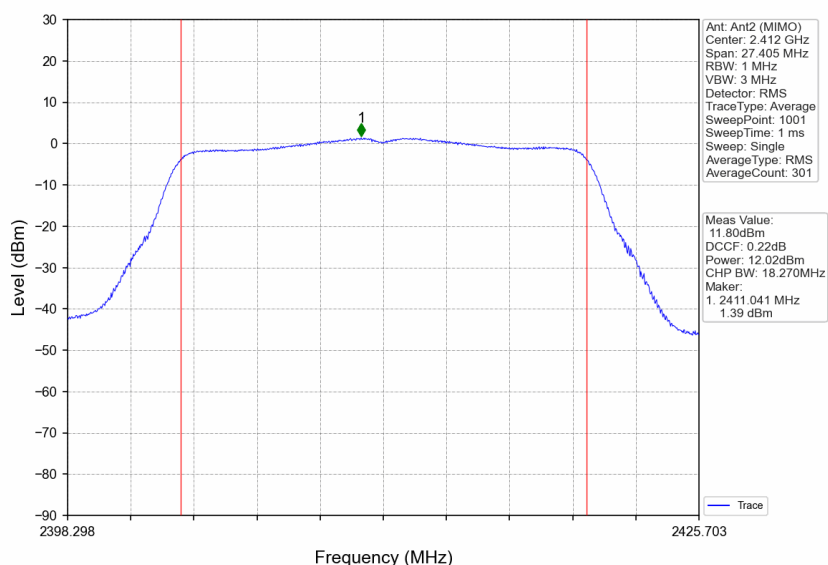
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



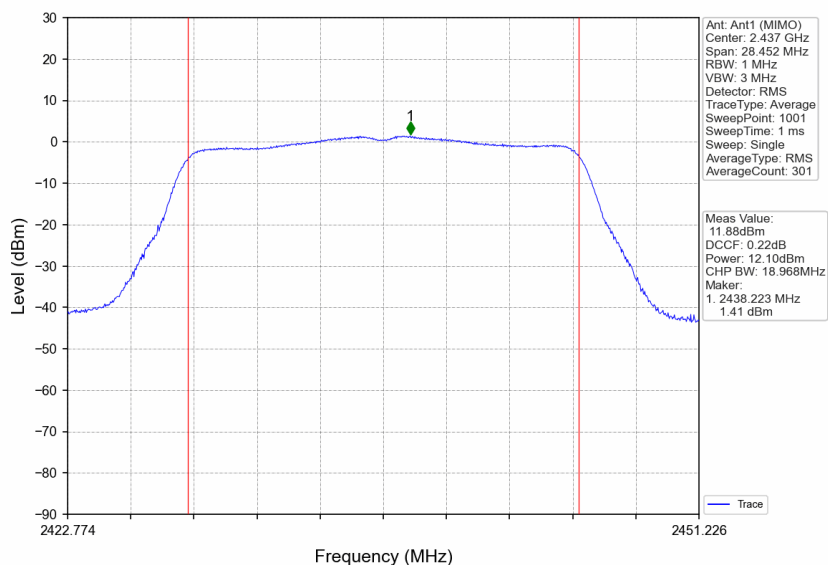
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



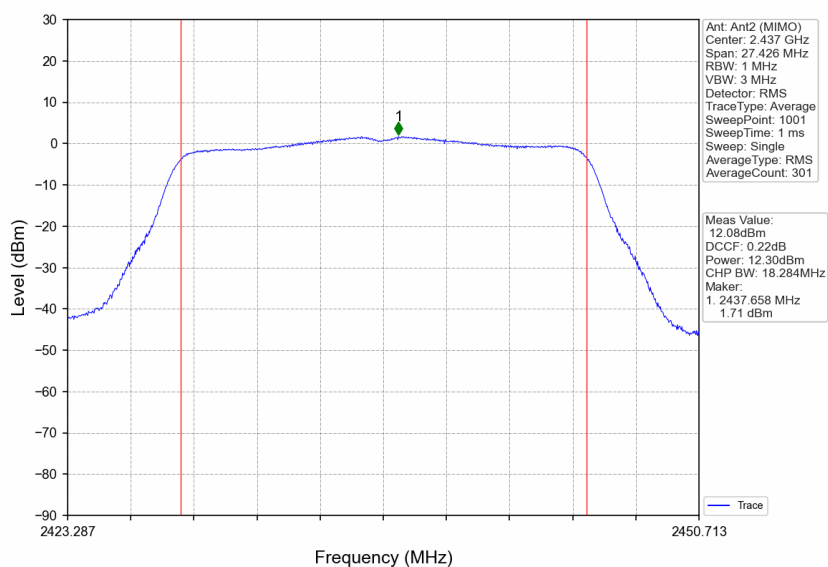
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTV



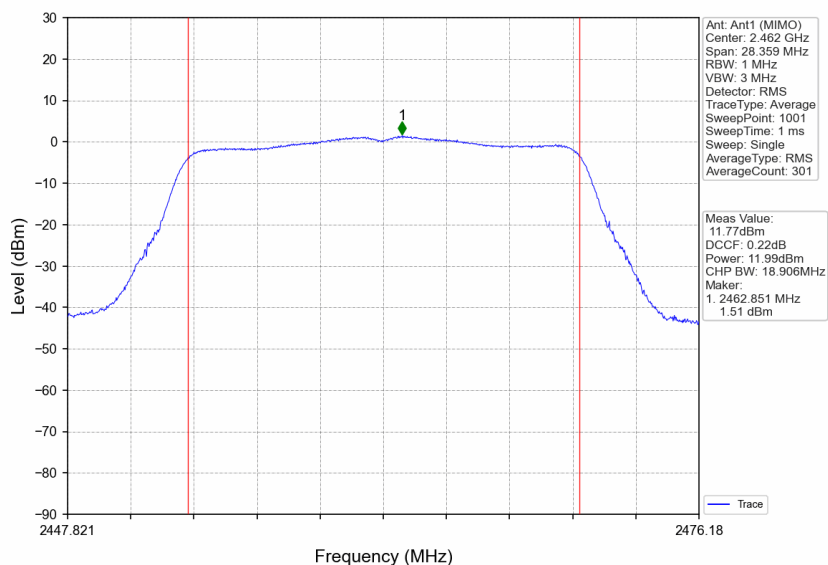
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTV



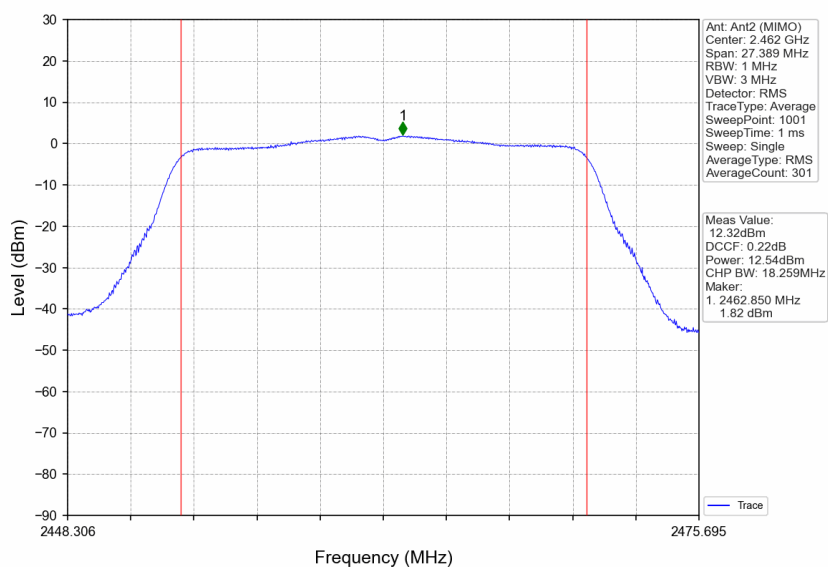
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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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	-4.22	-4.17	/	<=8	Pass
		2437	-3.89	-4.09	/	<=8	Pass
		2462	-4.18	-4.07	/	<=8	Pass
802.11g	SISO	2412	-10.03	-9.41	/	<=8	Pass
		2437	-11.44	-11.14	/	<=8	Pass
		2462	-10.32	-10.72	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-13.17	-13.10	-10.53	<=6.42	Pass
		2437	-12.42	-12.87	-10.59	<=6.42	Pass
		2462	-12.22	-12.47	-9.89	<=6.42	Pass

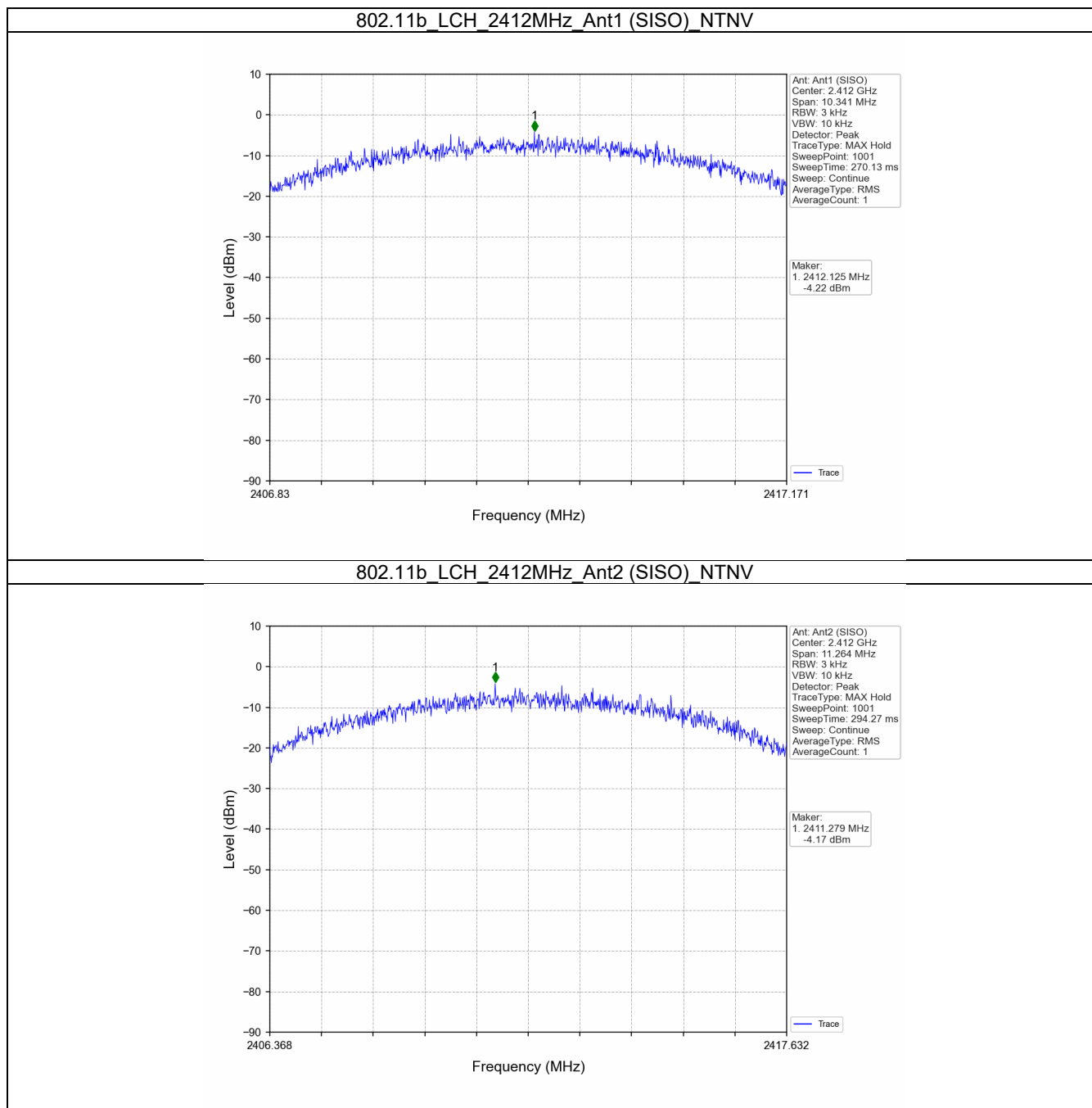
Note1: Antenna Gain: Ant1: 4.80dBi; Ant2: 4.34dBi;
Note2: Directional Gain: 7.58dBi



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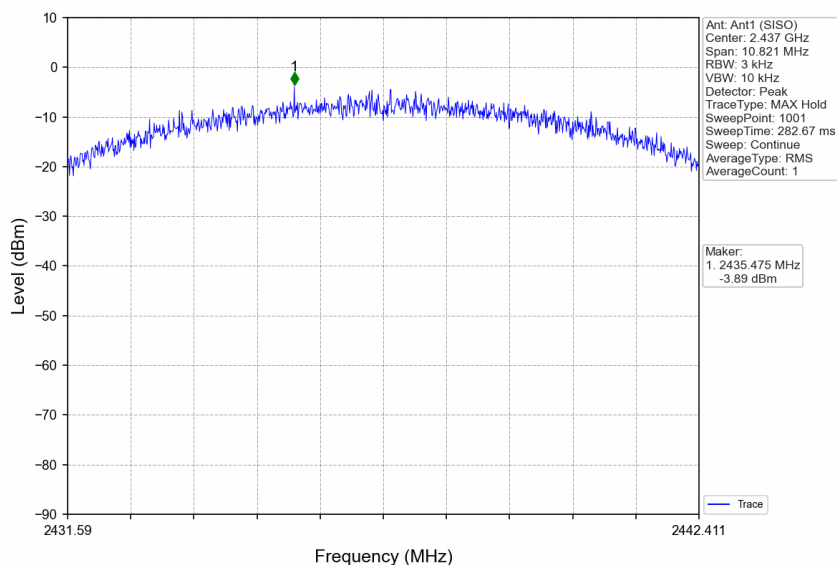
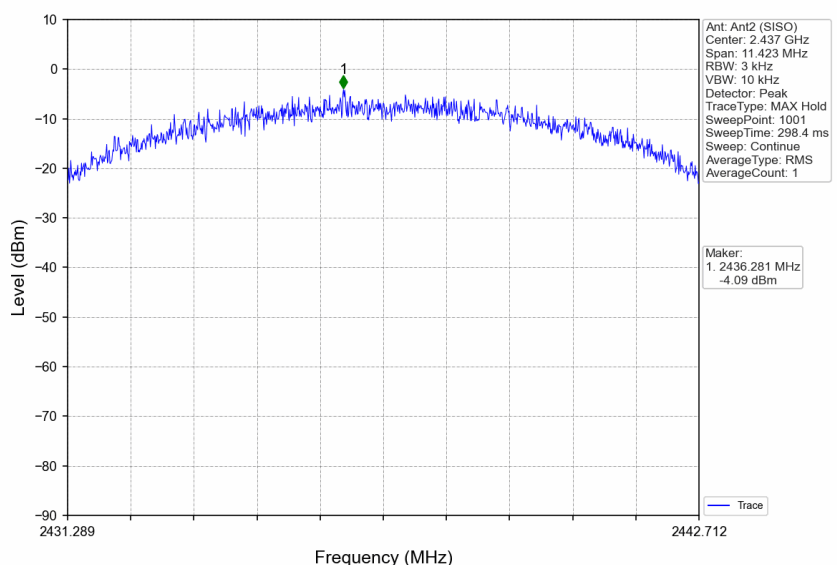
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4.1.2 Test Graph



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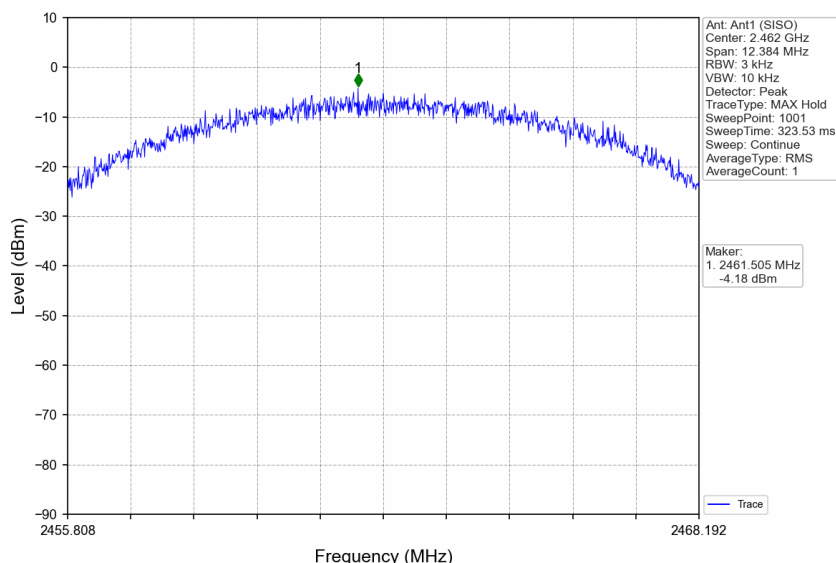
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802.11b MCH 2437MHz Ant1 (SISO) NTN

802.11b MCH 2437MHz Ant2 (SISO) NTN


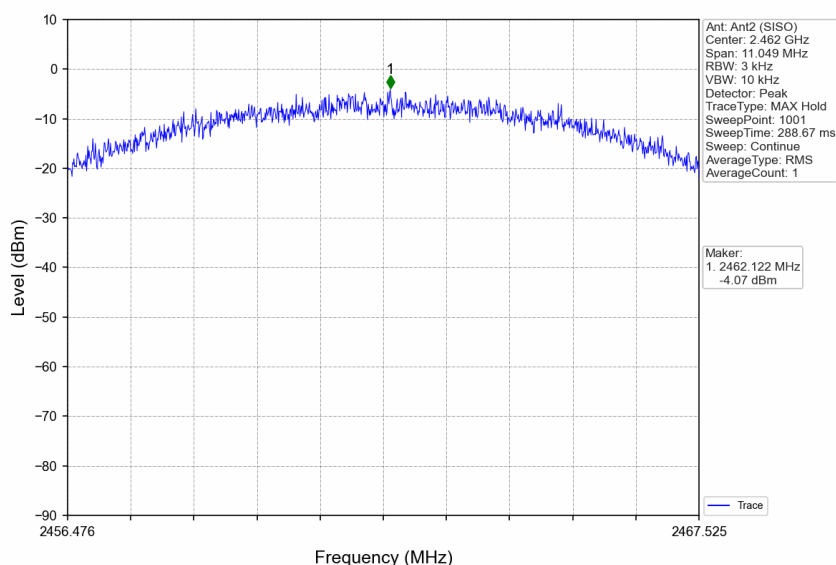
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802.11b HCH 2462MHz Ant1 (SISO) NTN



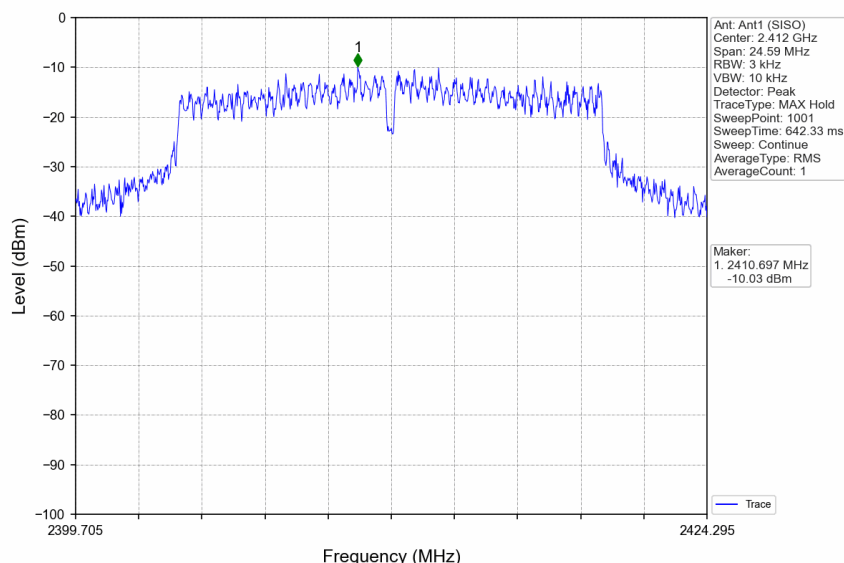
802.11b HCH 2462MHz Ant2 (SISO) NTN



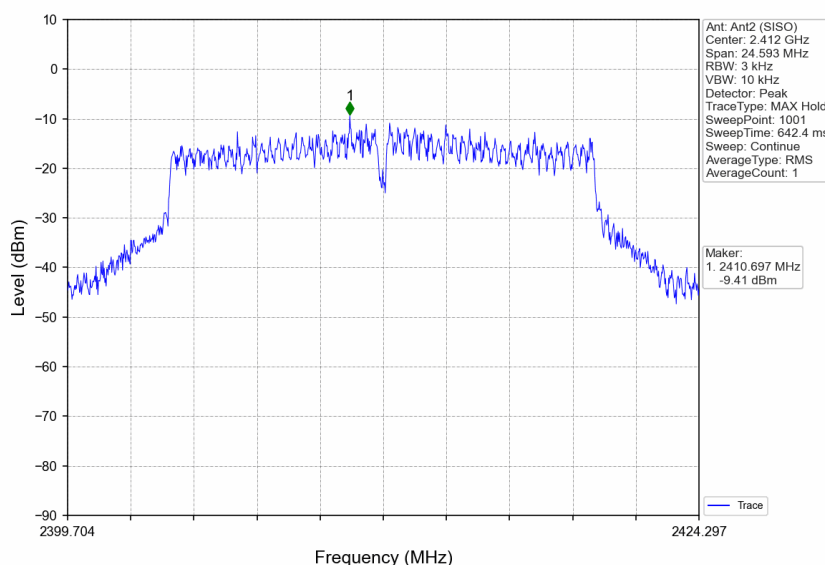
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



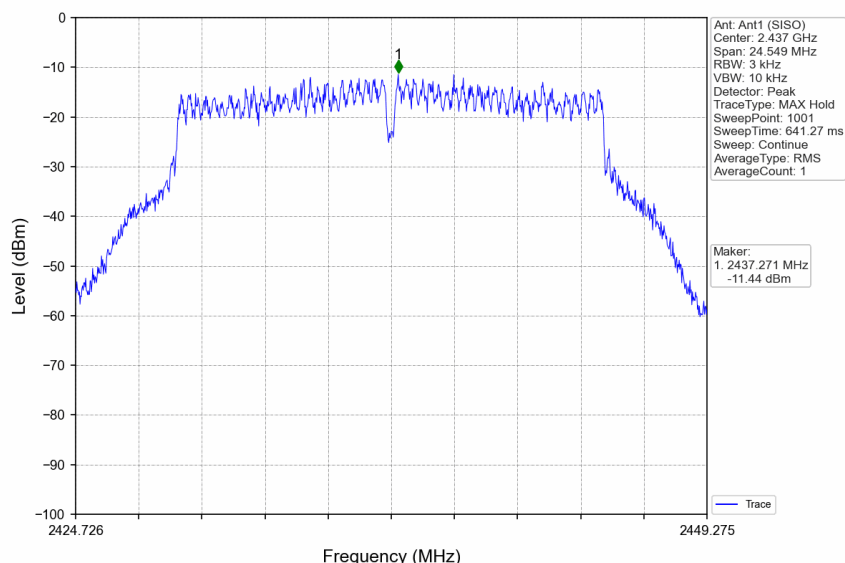
802.11g LCH 2412MHz Ant2 (SISO) NTNV



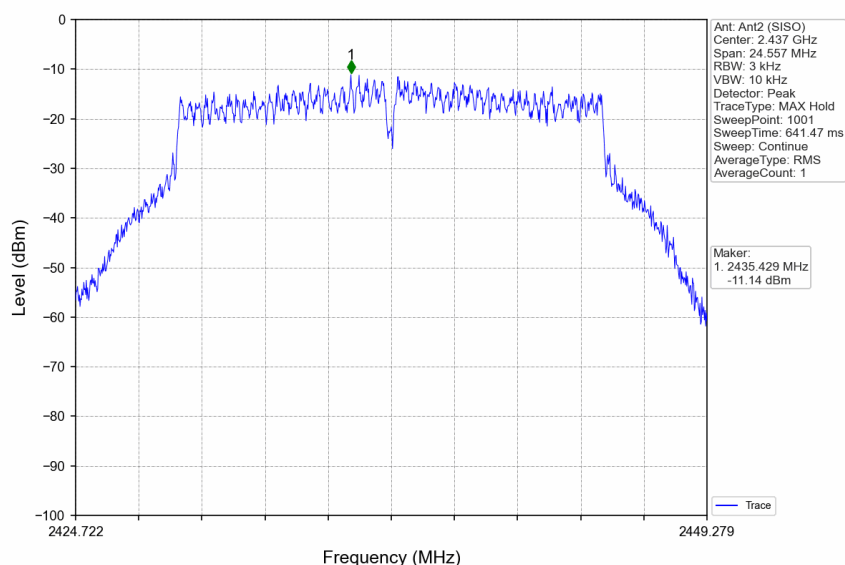
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802.11g MCH 2437MHz Ant1 (SISO) NTN



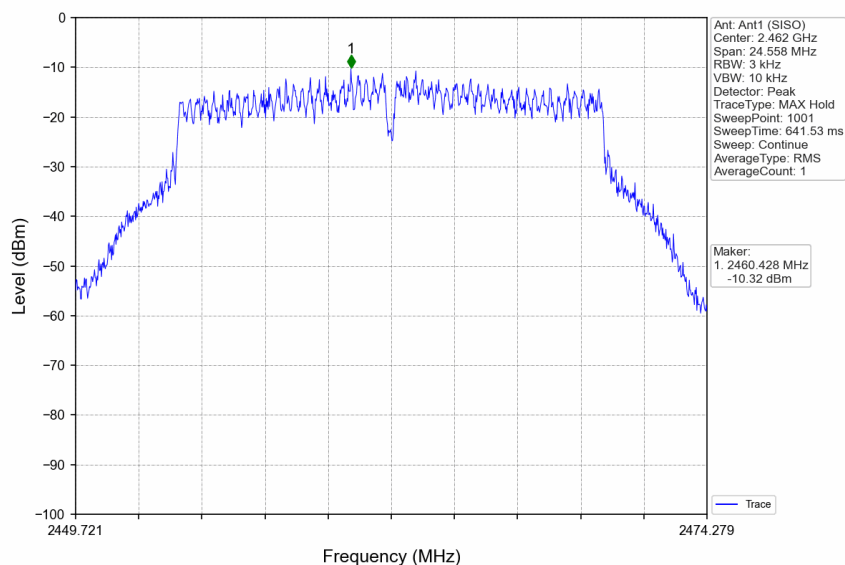
802.11g MCH 2437MHz Ant2 (SISO) NTN



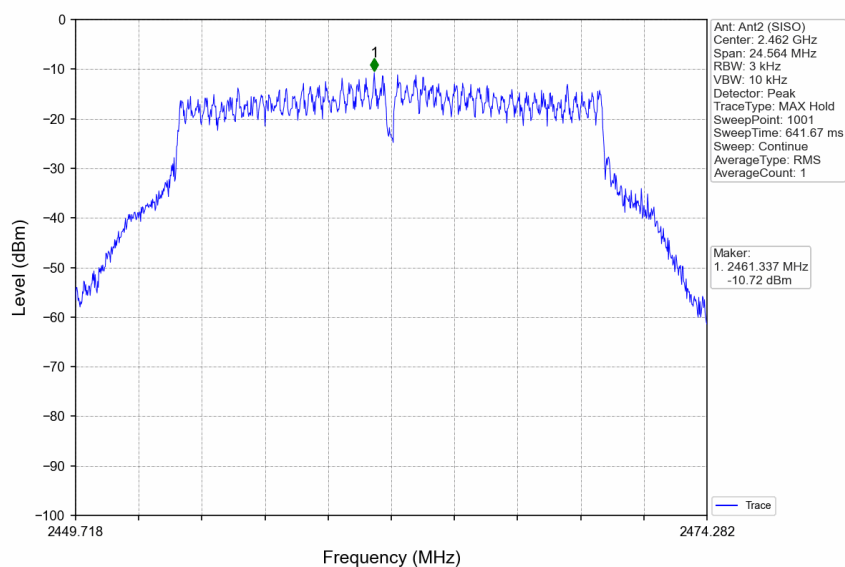
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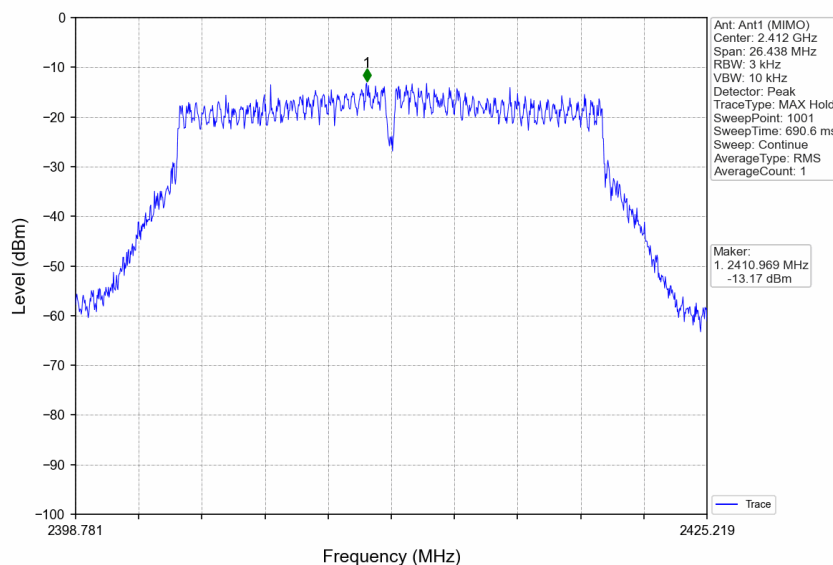
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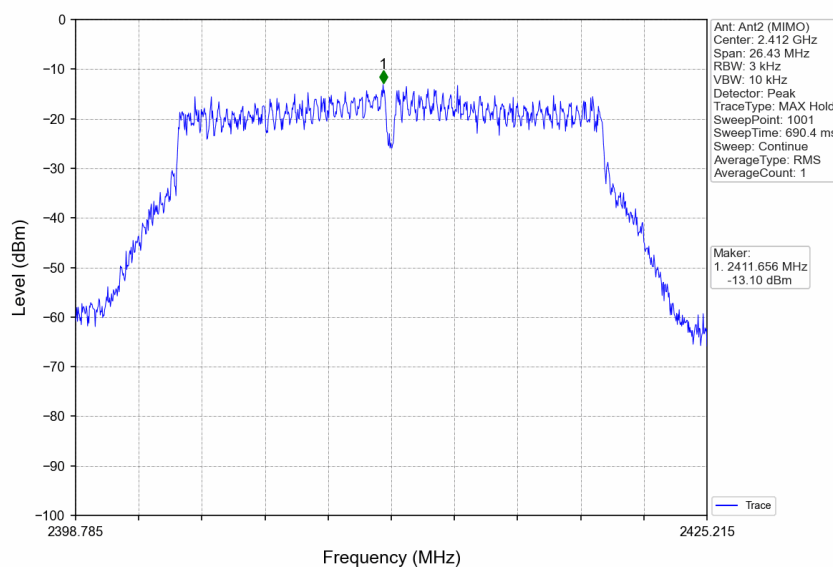
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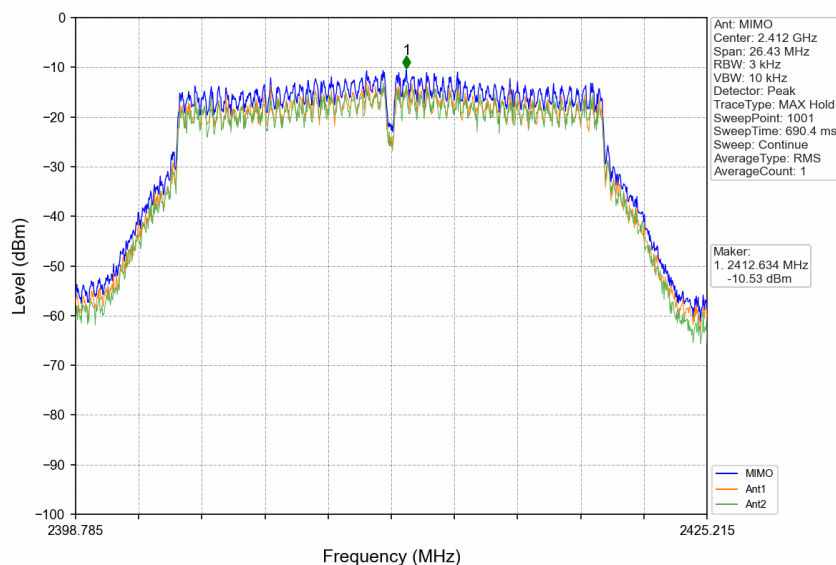
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



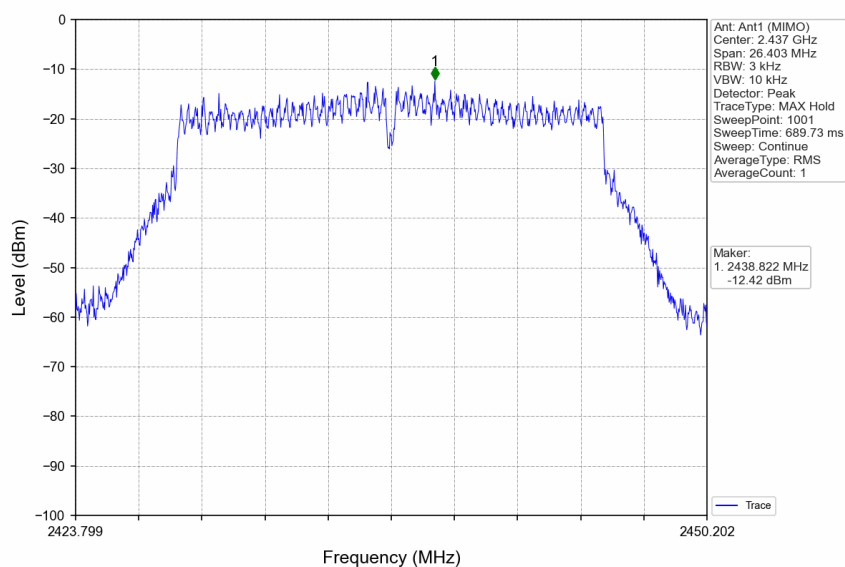
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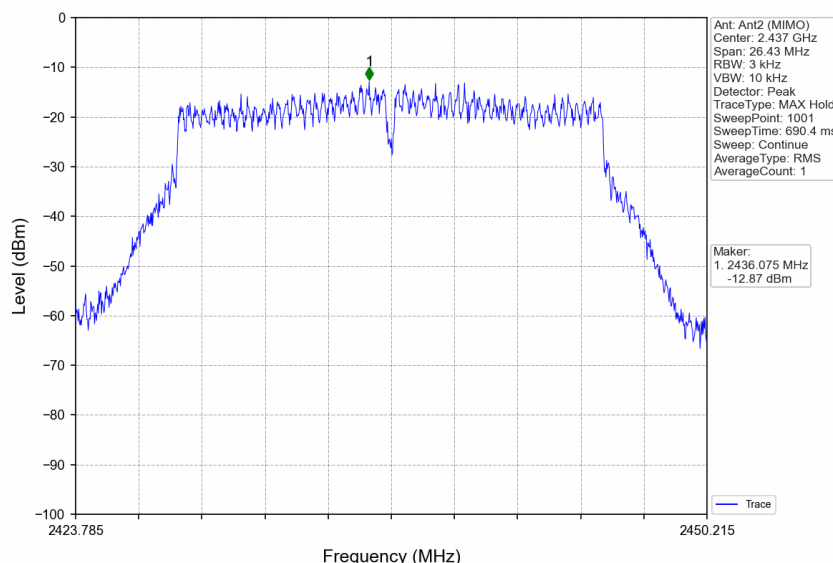
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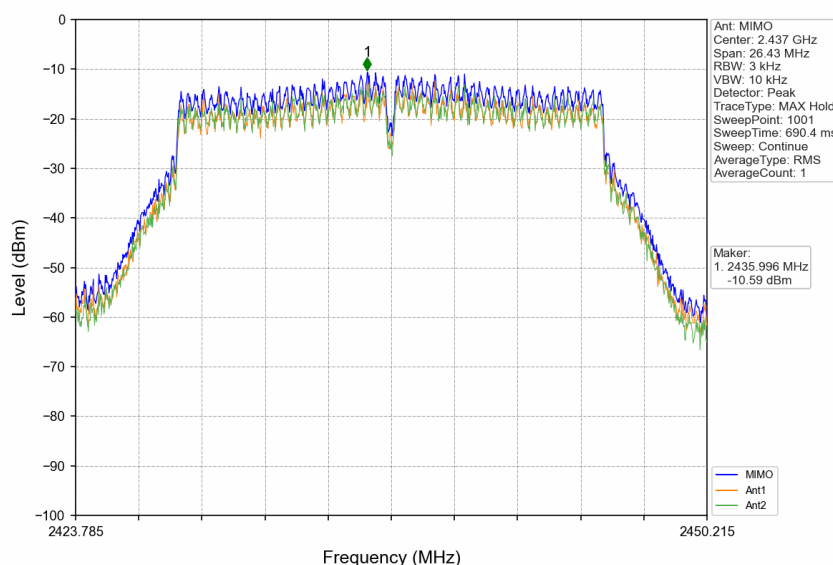
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802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTNV



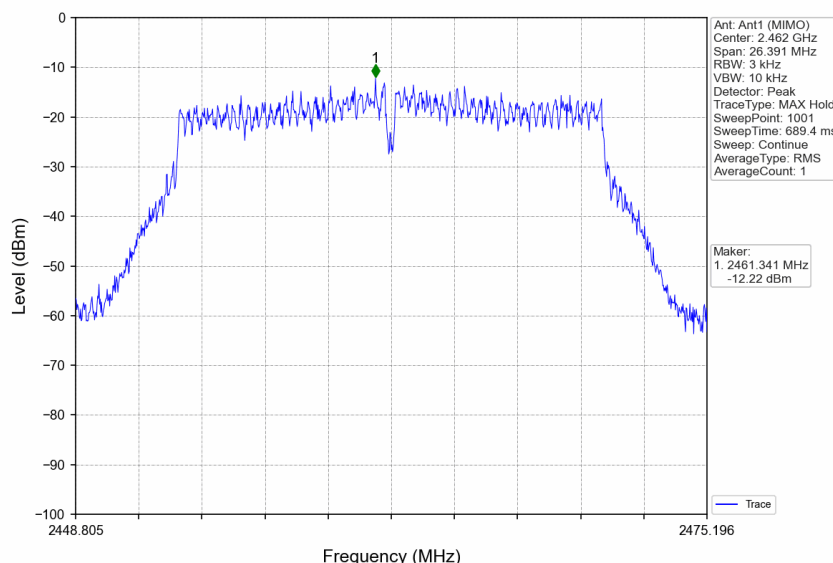
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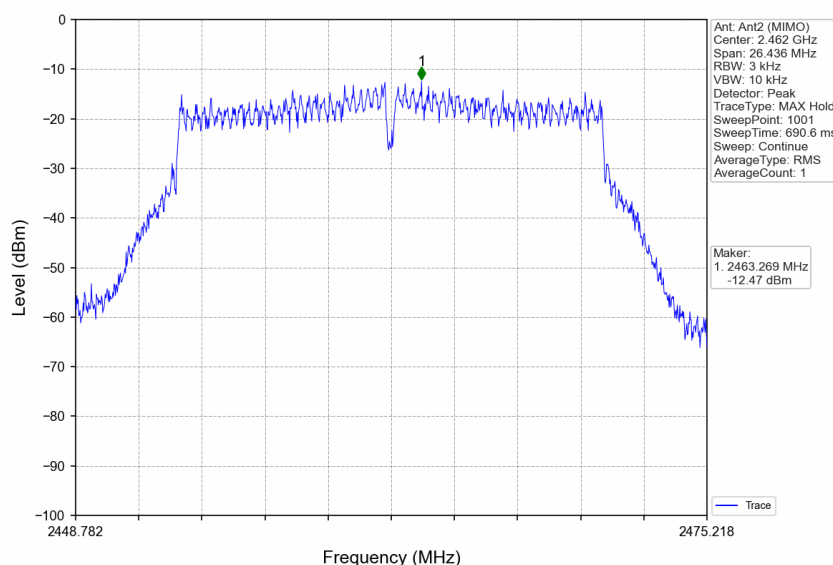
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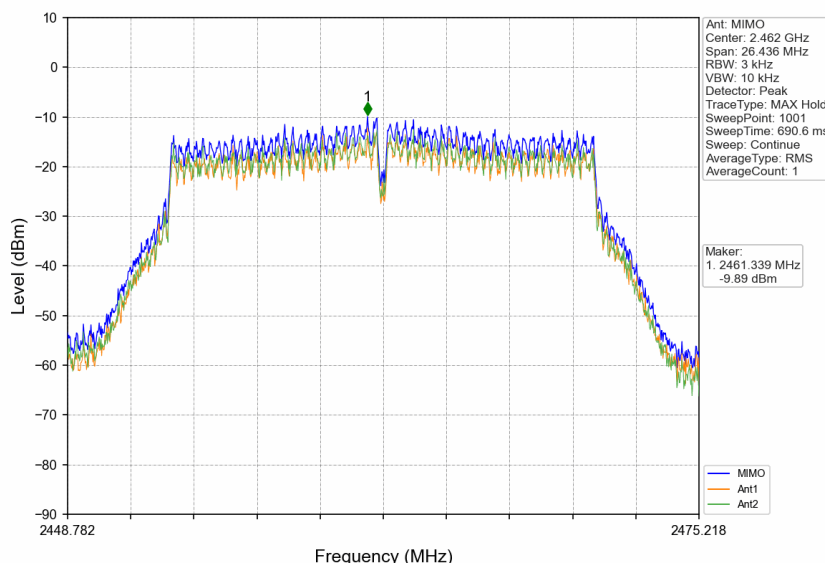
802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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802.11n(HT20) HCH 2462MHz MIMO NTV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

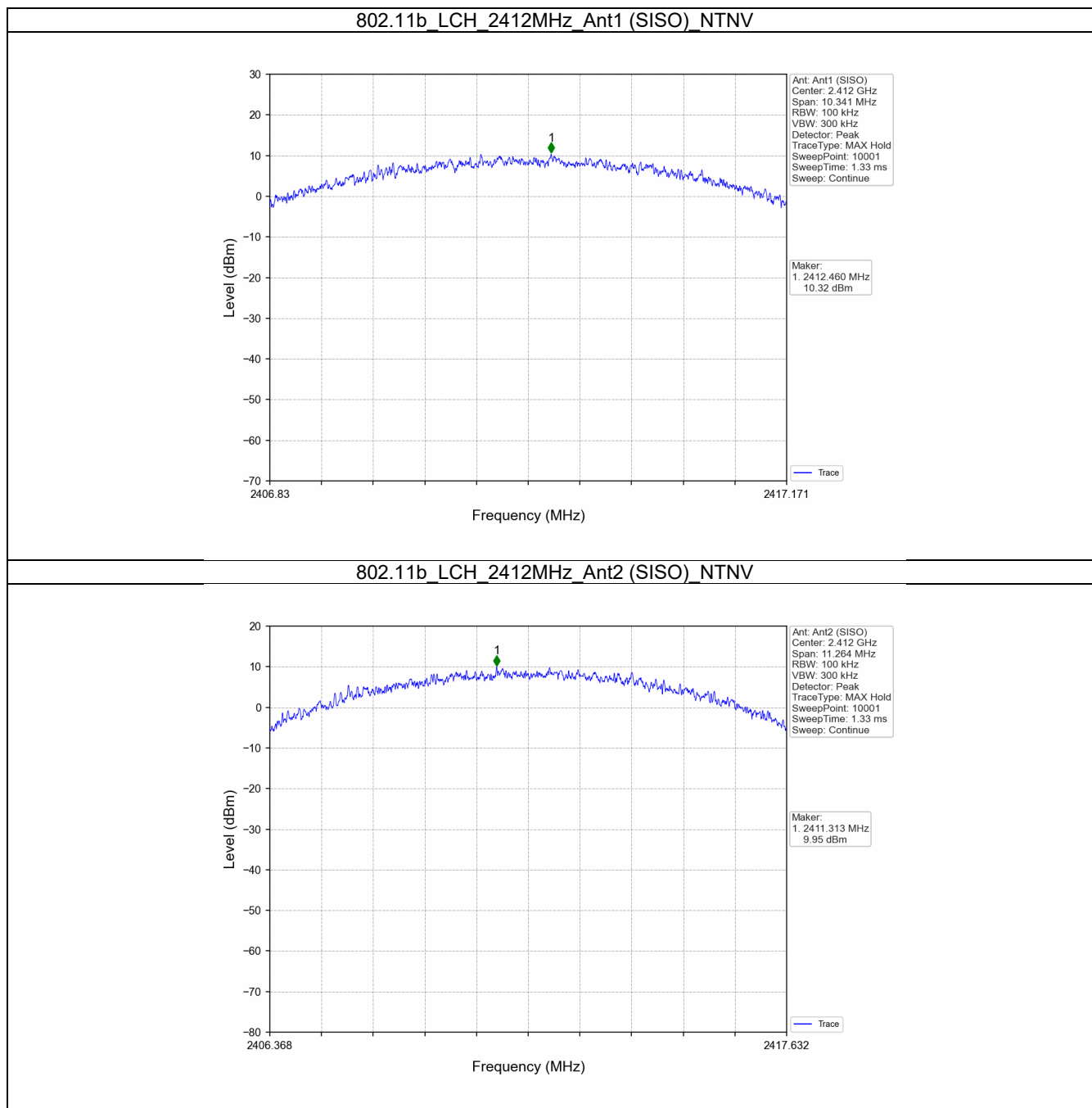
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	10.32
			2	9.95
		2437	1	9.81
			2	10.39
		2462	1	11.54
			2	10.61
802.11g	SISO	2412	1	-0.52
			2	-0.45
		2437	1	1.88
			2	1.71
		2462	1	1.58
			2	1.68
802.11n (HT20)	MIMO	2412	1	0.49
			2	0.12
		2437	1	0.16
			2	0.65
		2462	1	0.05
			2	0.71

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.



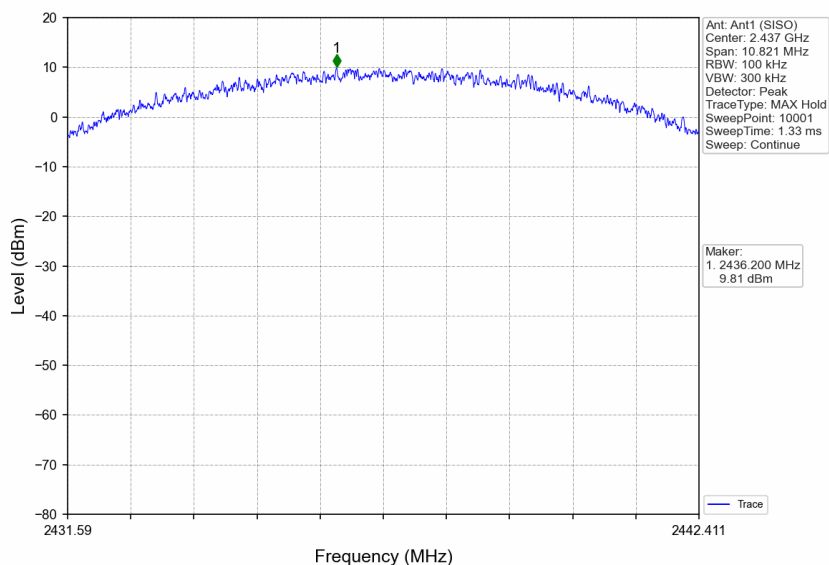
5.1.2 Test Graph



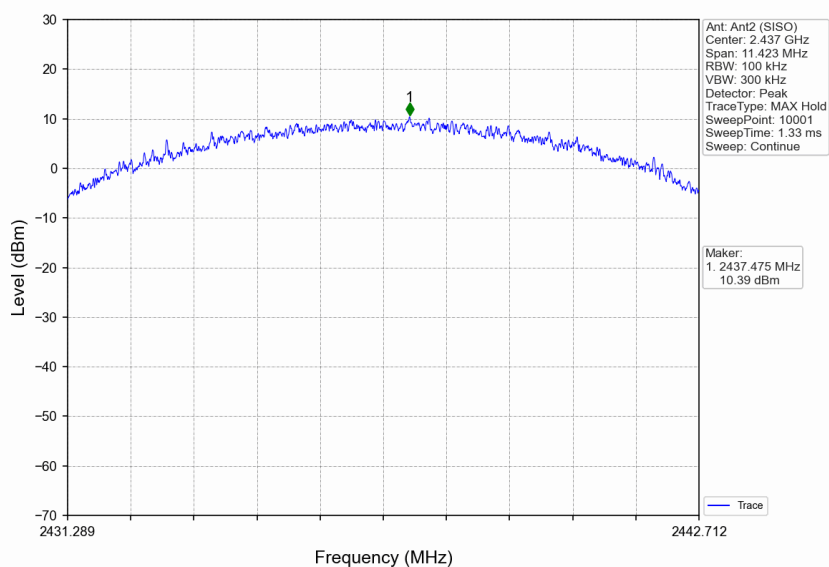
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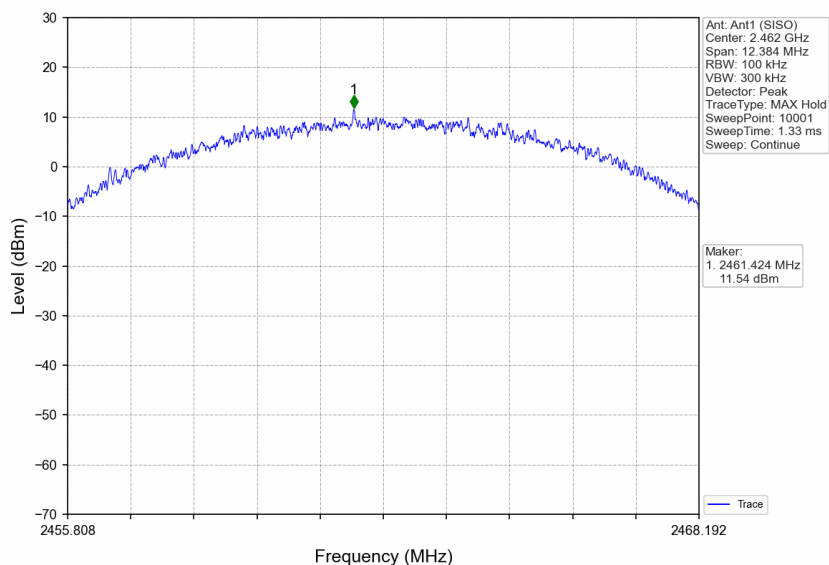
802.11b MCH 2437MHz Ant1 (SISO) NTN



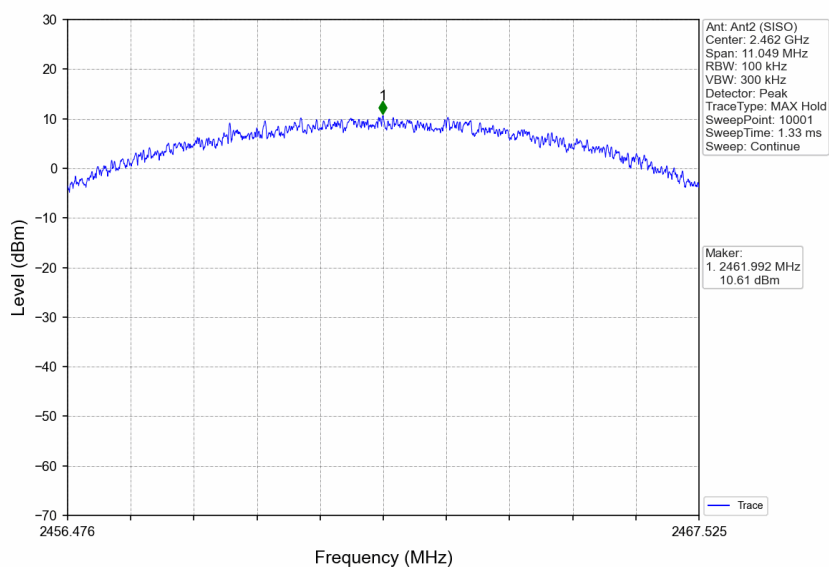
802.11b MCH 2437MHz Ant2 (SISO) NTN



802.11b HCH 2462MHz Ant1 (SISO) NTN



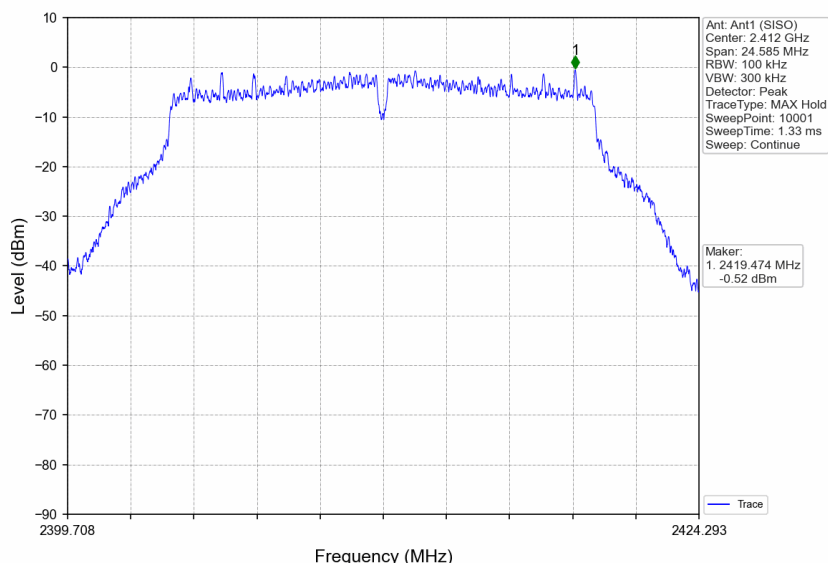
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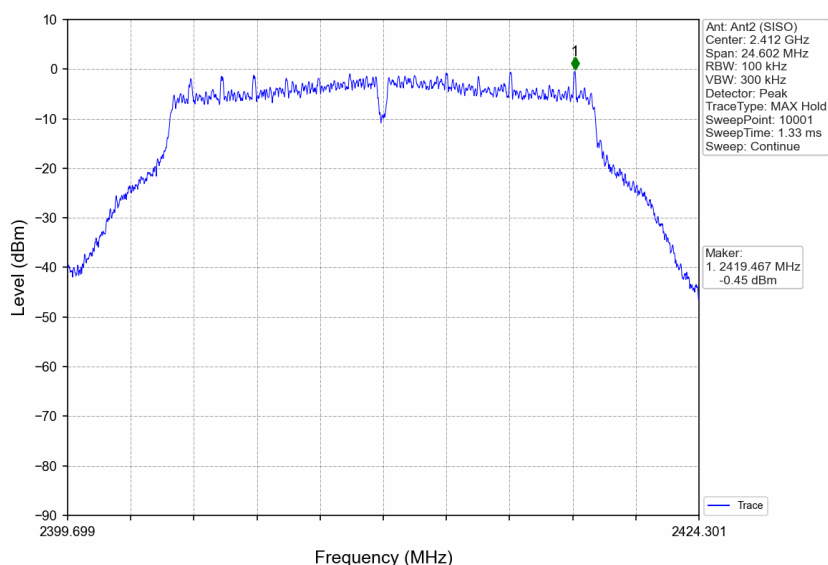
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



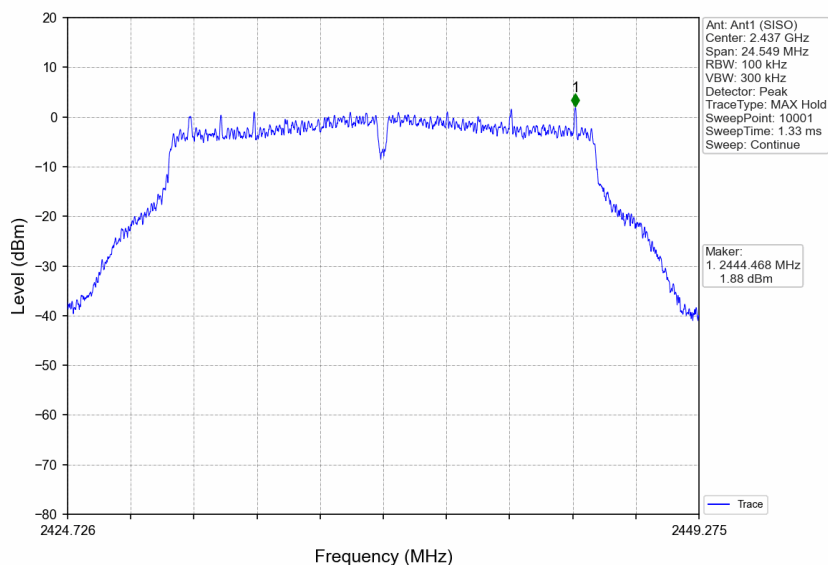
802.11g LCH 2412MHz Ant2 (SISO) NTNV



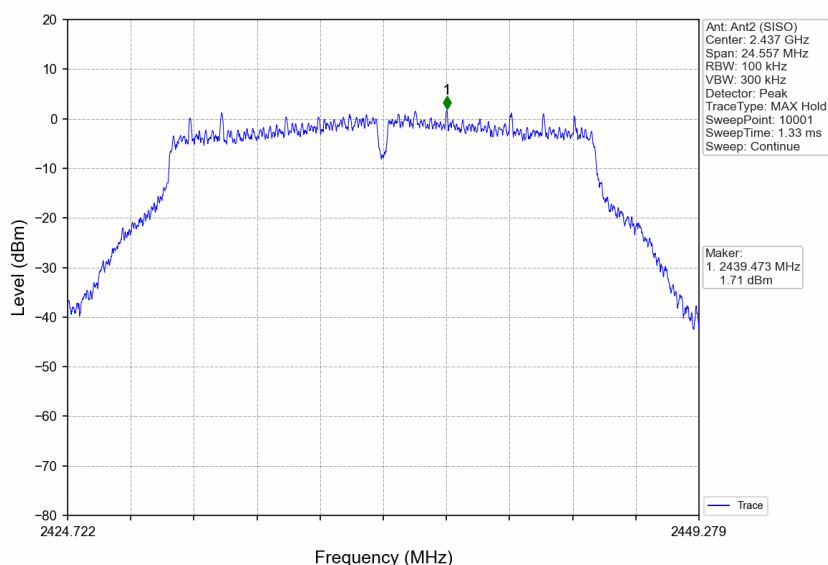
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802.11g MCH 2437MHz Ant1 (SISO) NTN



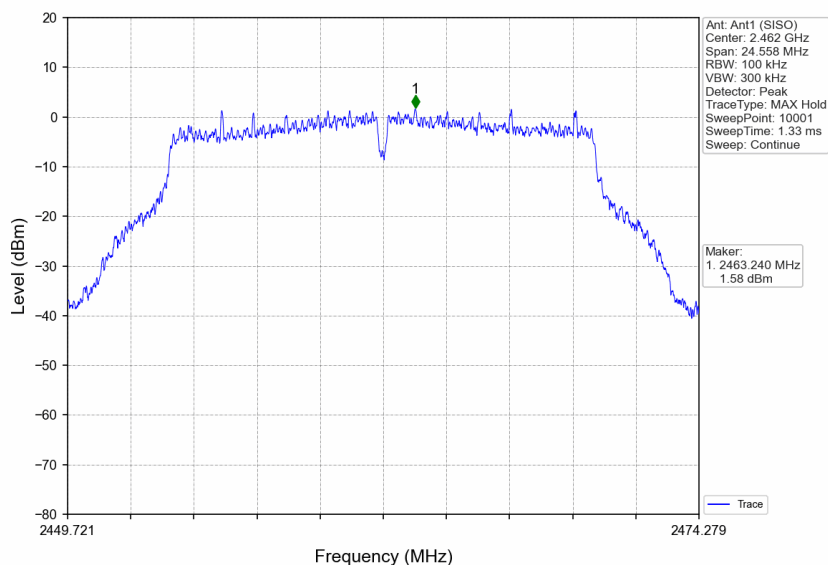
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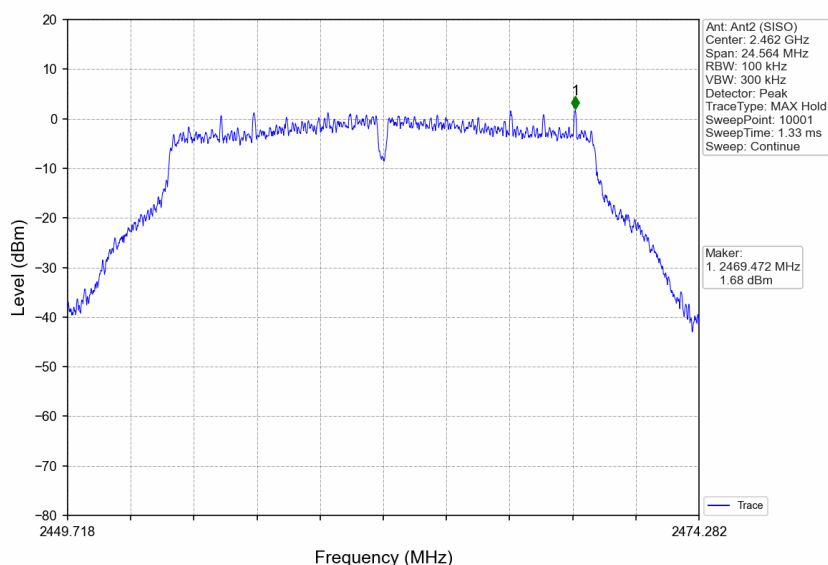
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802.11g HCH 2462MHz Ant1 (SISO) NTN



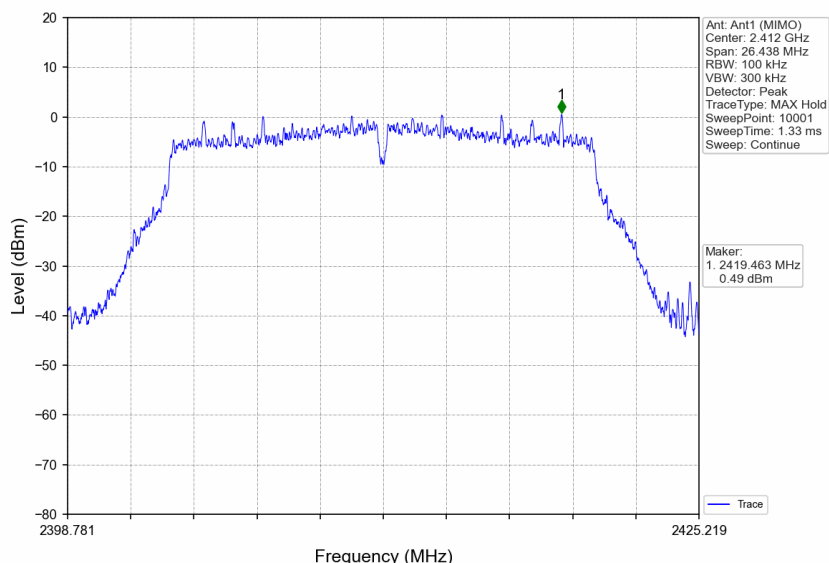
802.11g HCH 2462MHz Ant2 (SISO) NTN



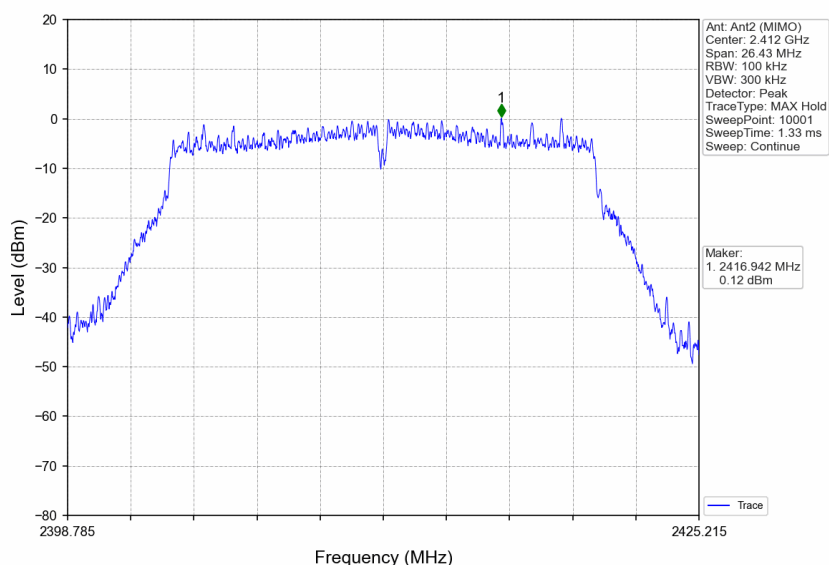
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



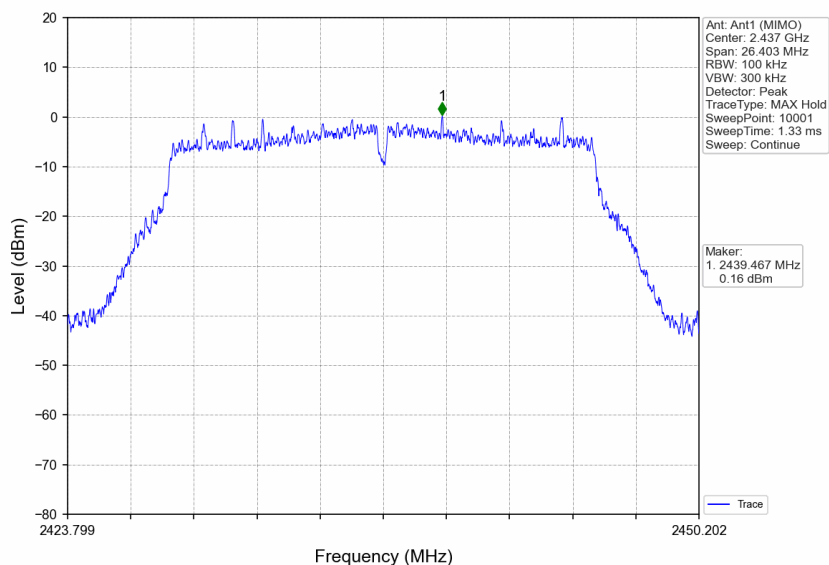
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



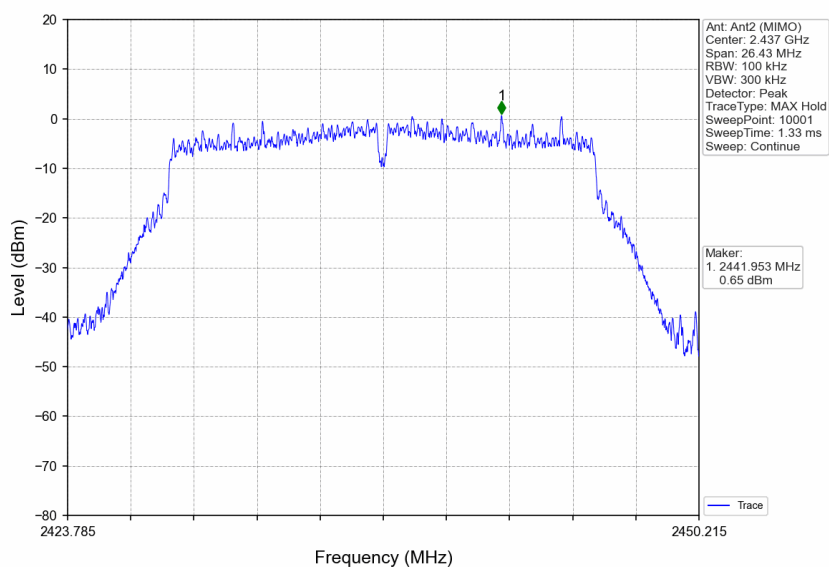
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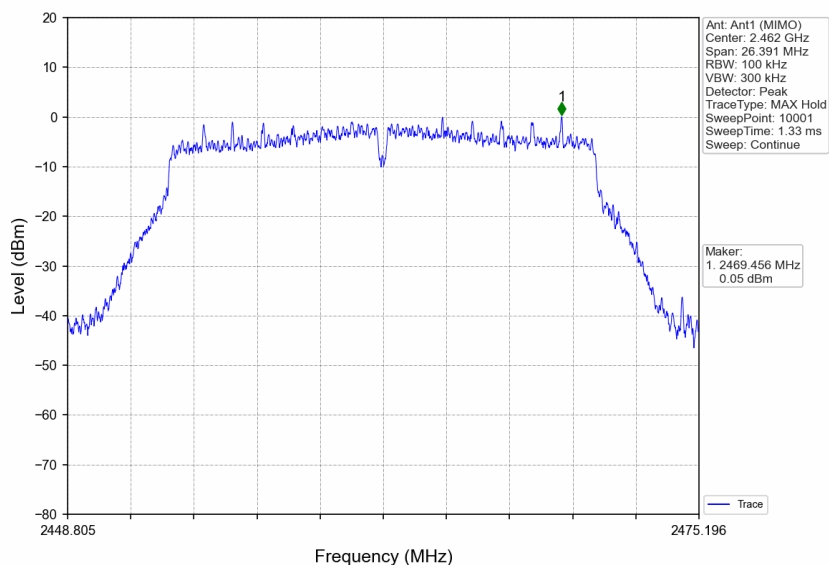
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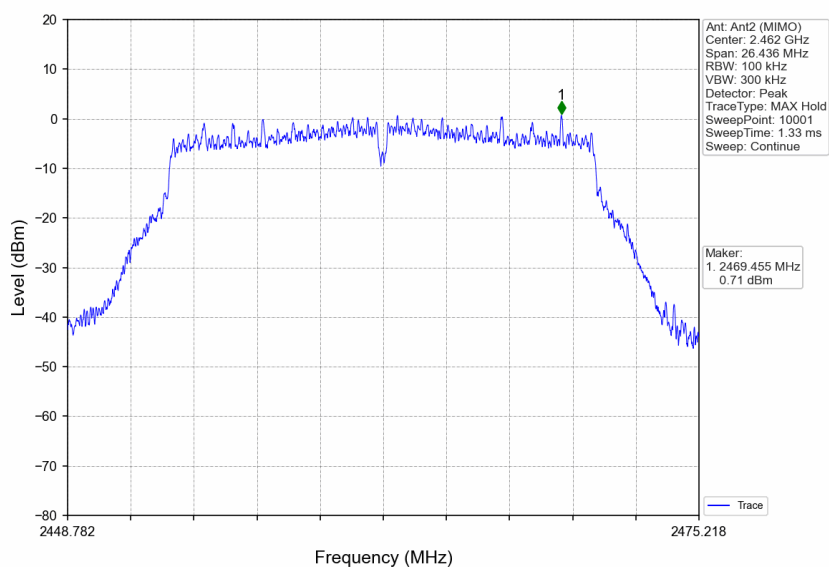
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTNV



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



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	11.54	-18.46	Pass
			2	10.61	-19.39	Pass
		2437	1	11.54	-18.46	Pass
			2	10.61	-19.39	Pass
		2462	1	11.54	-18.46	Pass
			2	10.61	-19.39	Pass
802.11g	SISO	2412	1	1.88	-28.12	Pass
			2	1.71	-28.29	Pass
		2437	1	1.88	-28.12	Pass
			2	1.71	-28.29	Pass
		2462	1	1.88	-28.12	Pass
			2	1.71	-28.29	Pass
802.11n (HT20)	MIMO	2412	1	0.49	-29.51	Pass
			2	0.71	-29.29	Pass
		2437	1	0.49	-29.51	Pass
			2	0.71	-29.29	Pass
		2462	1	0.49	-29.51	Pass
			2	0.71	-29.29	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.

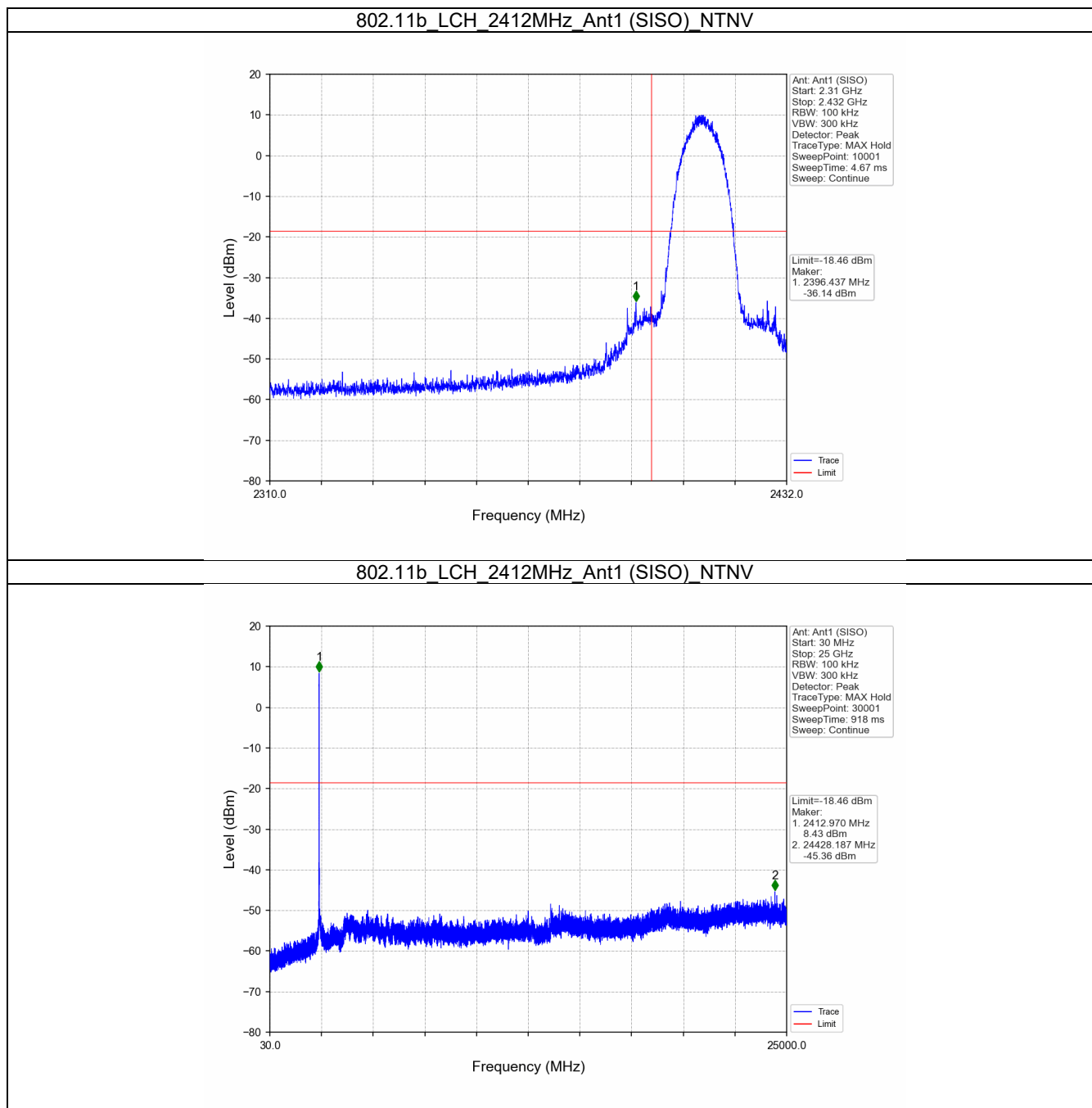
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



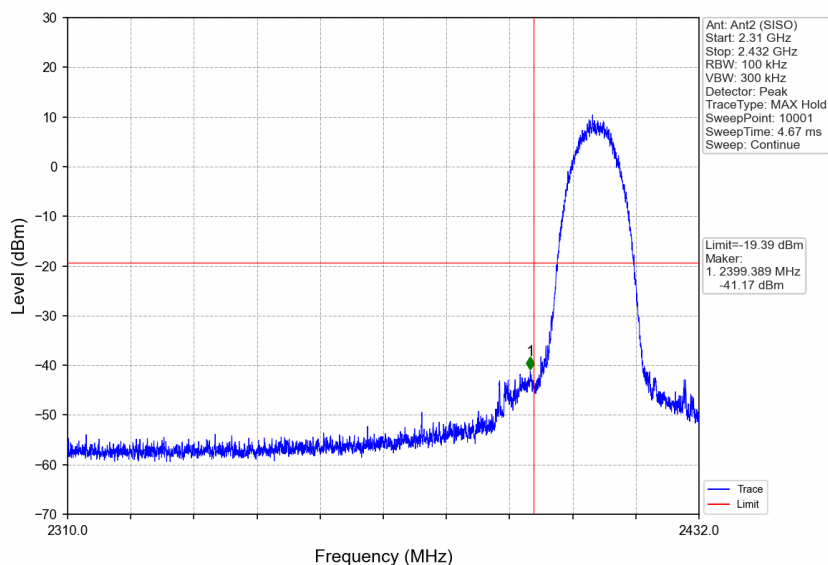
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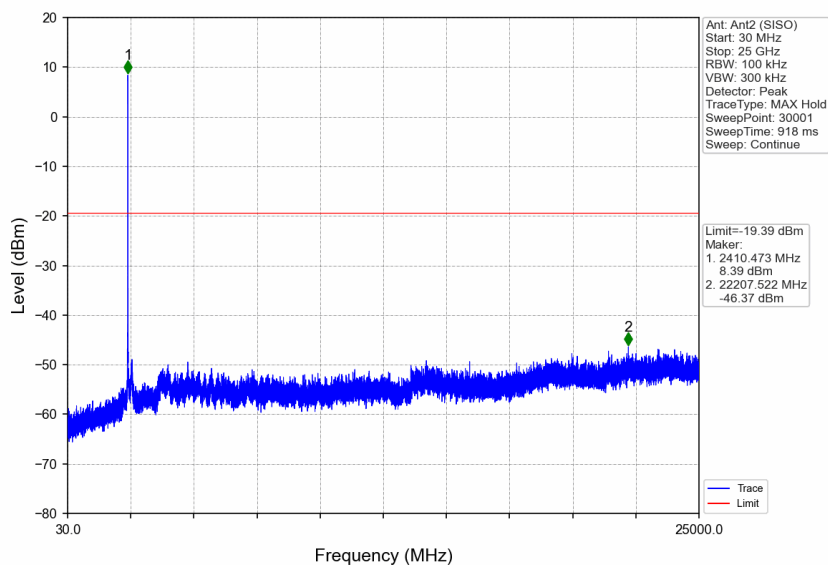
5.2.2 Test Graph



802.11b LCH 2412MHz Ant2 (SISO) NTNV



802.11b LCH 2412MHz Ant2 (SISO) NTNV



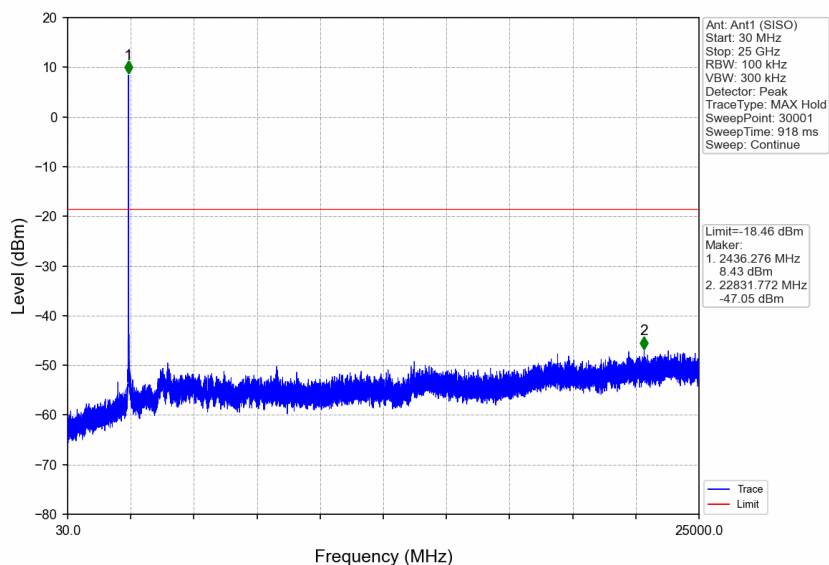
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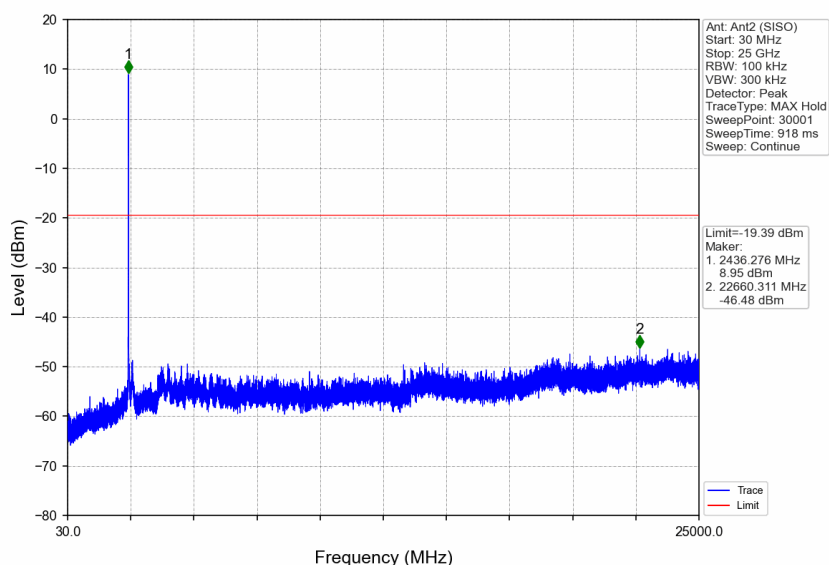
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802.11b MCH 2437MHz Ant1 (SISO) NTN



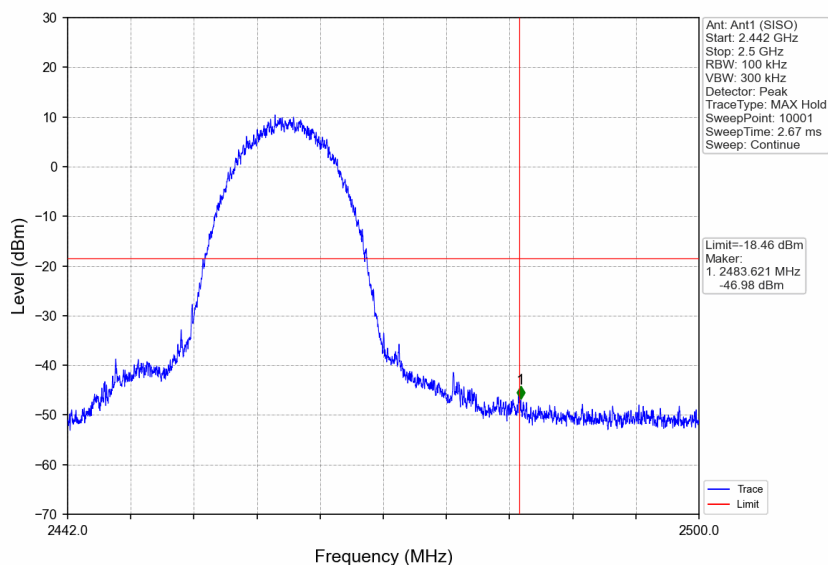
802.11b MCH 2437MHz Ant2 (SISO) NTN



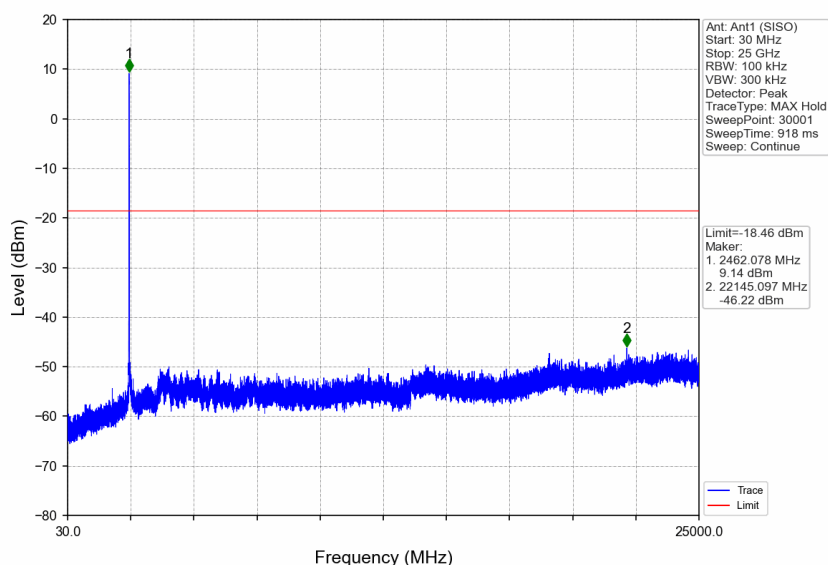
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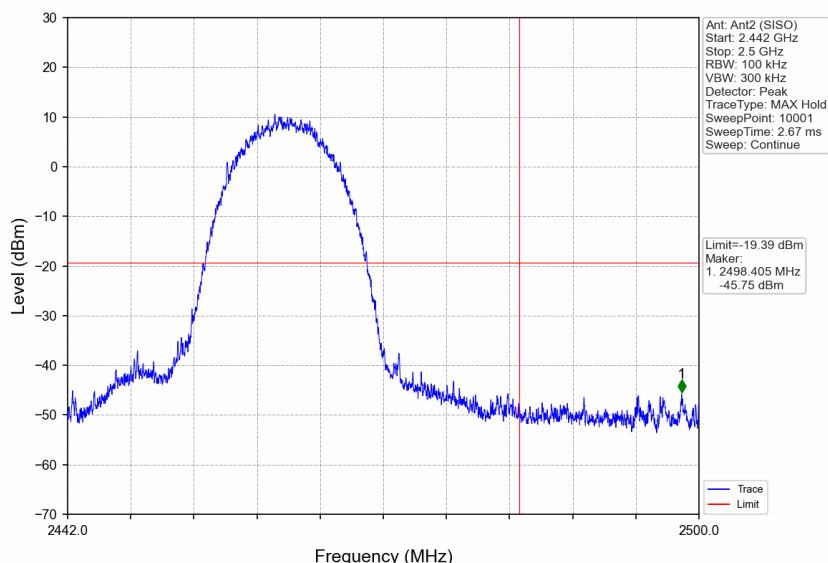
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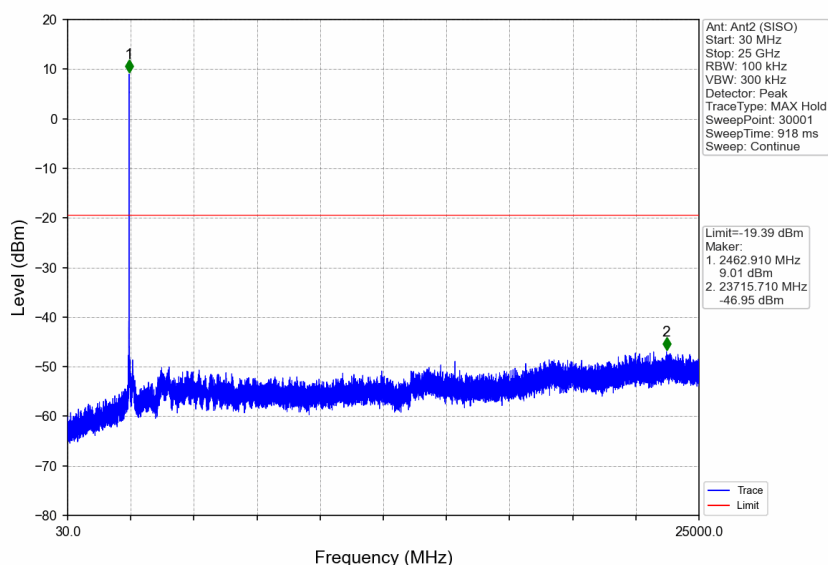
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802.11b HCH 2462MHz Ant2 (SISO) NTN



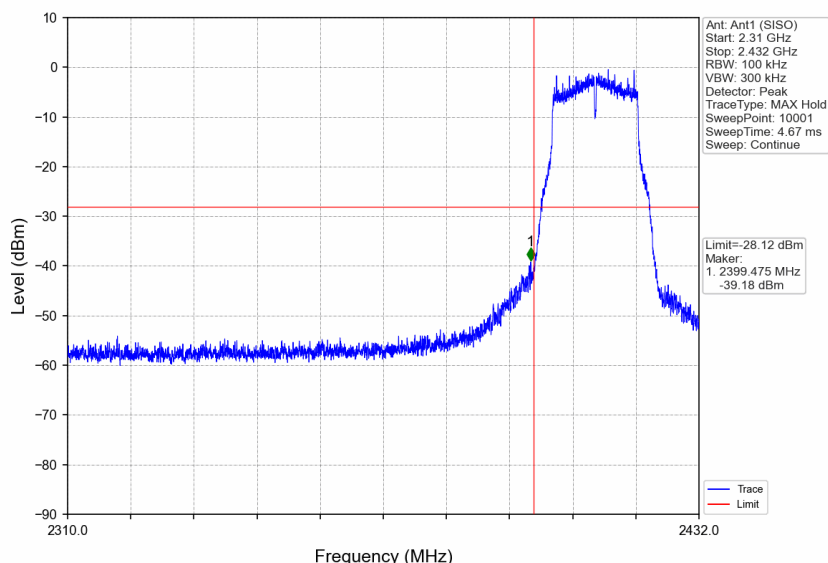
802.11b HCH 2462MHz Ant2 (SISO) NTN



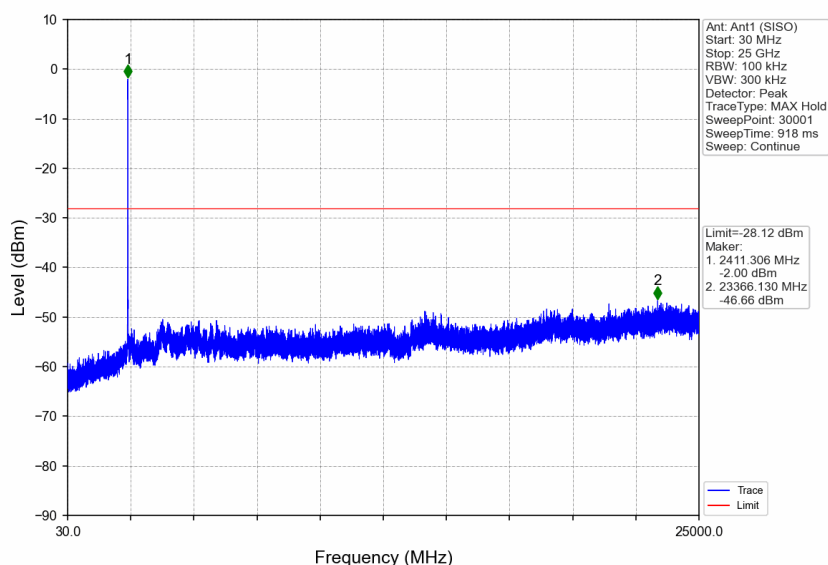
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



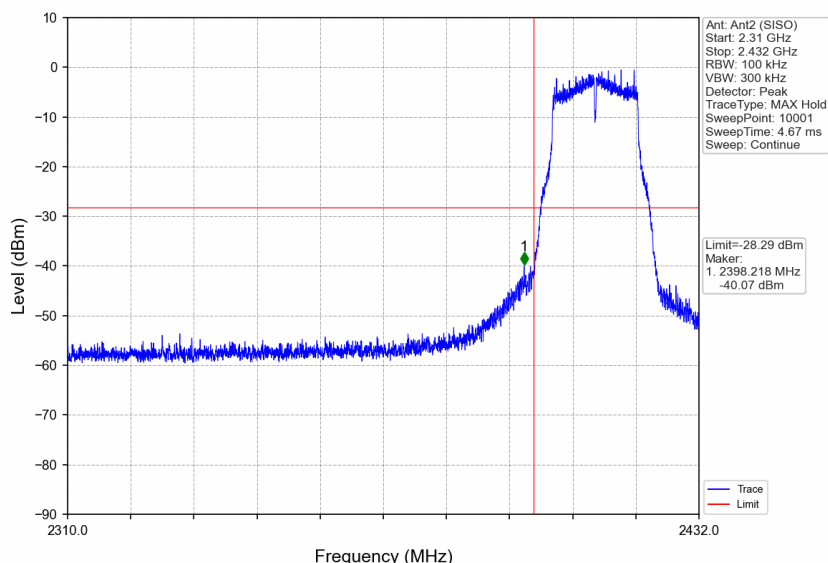
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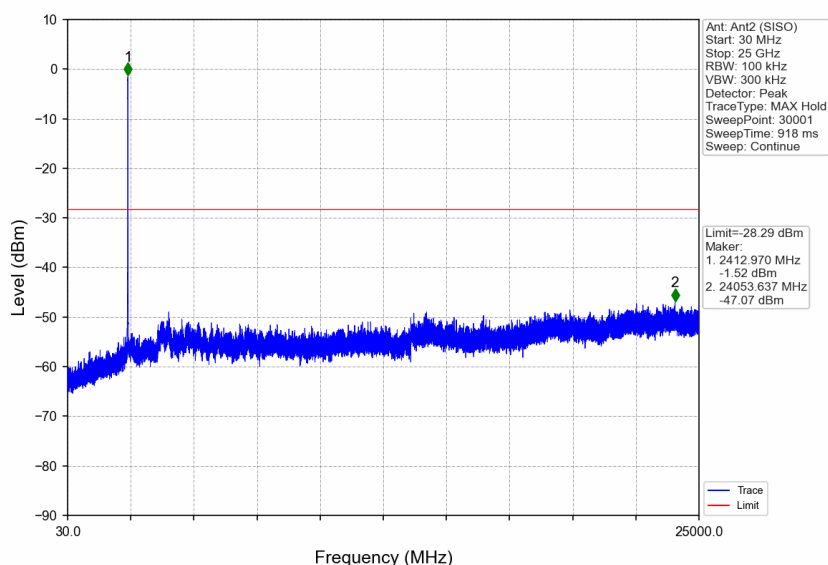
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802.11g LCH 2412MHz Ant2 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



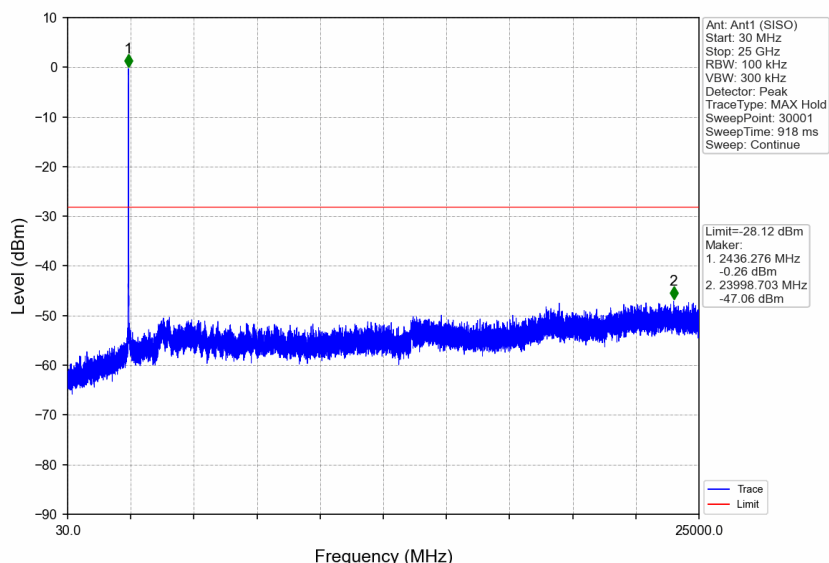
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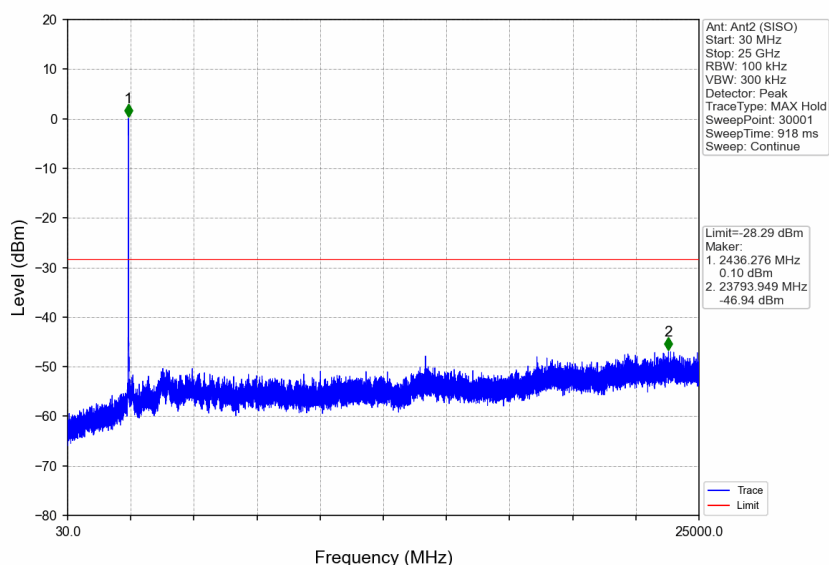
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802.11g MCH 2437MHz Ant1 (SISO) NTN



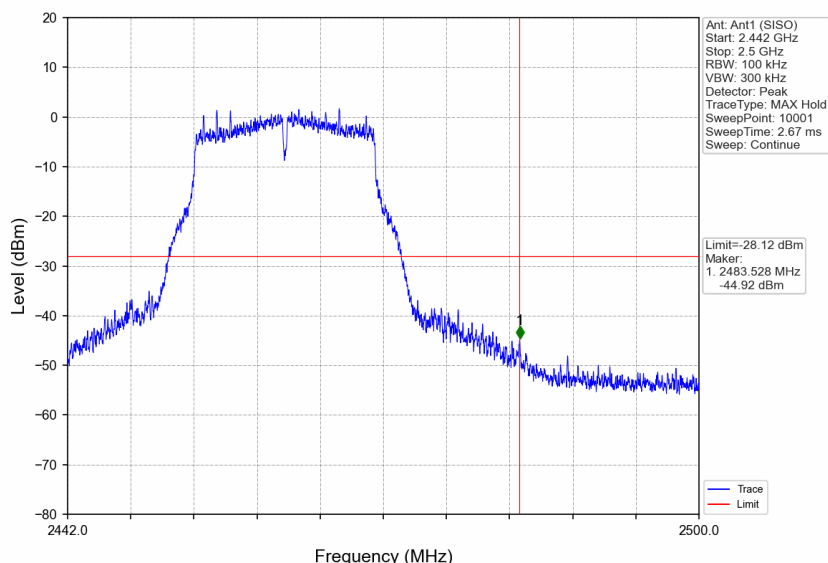
802.11g MCH 2437MHz Ant2 (SISO) NTN



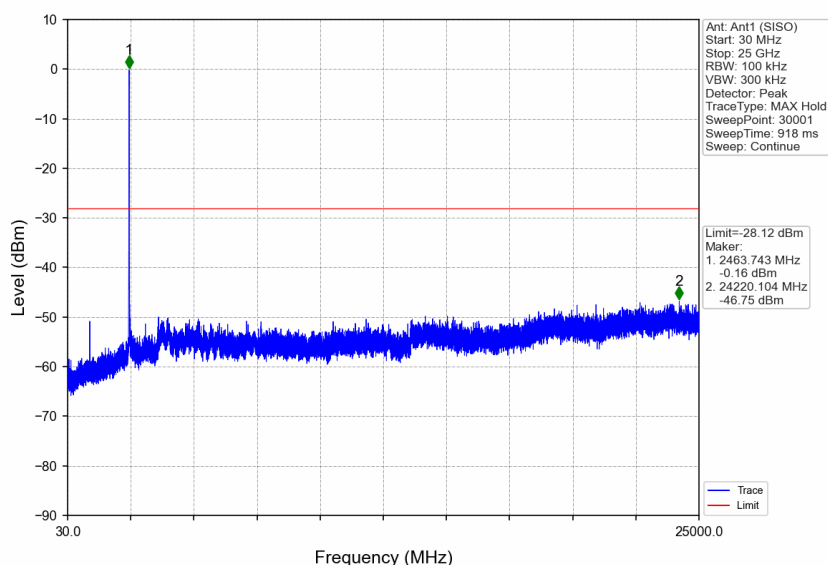
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



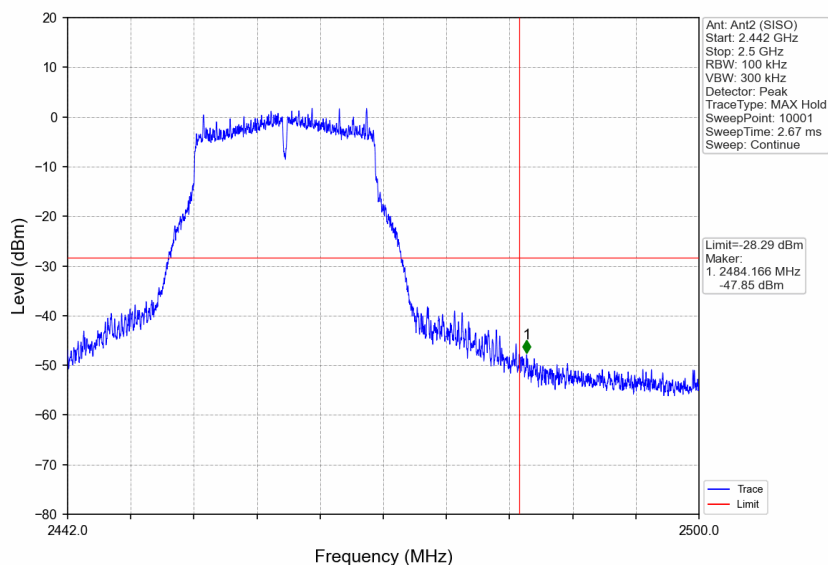
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



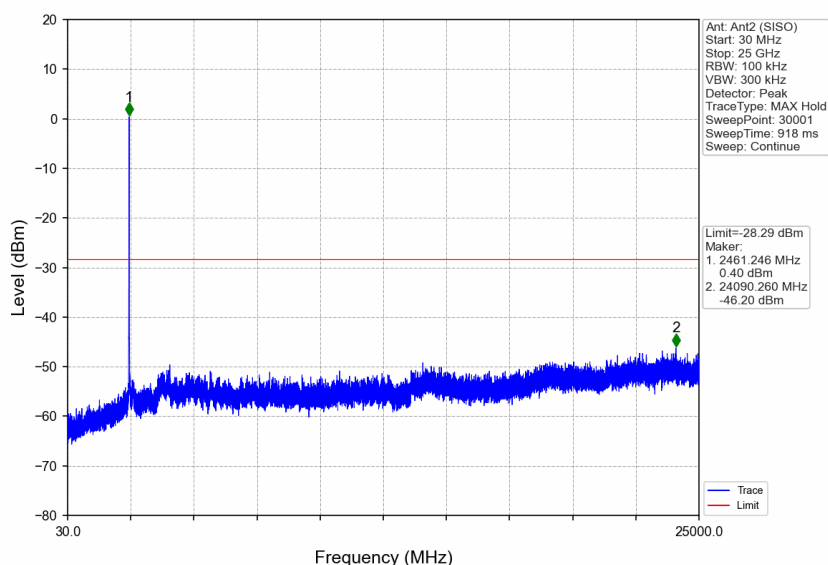
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802.11g HCH 2462MHz Ant2 (SISO) NTNV



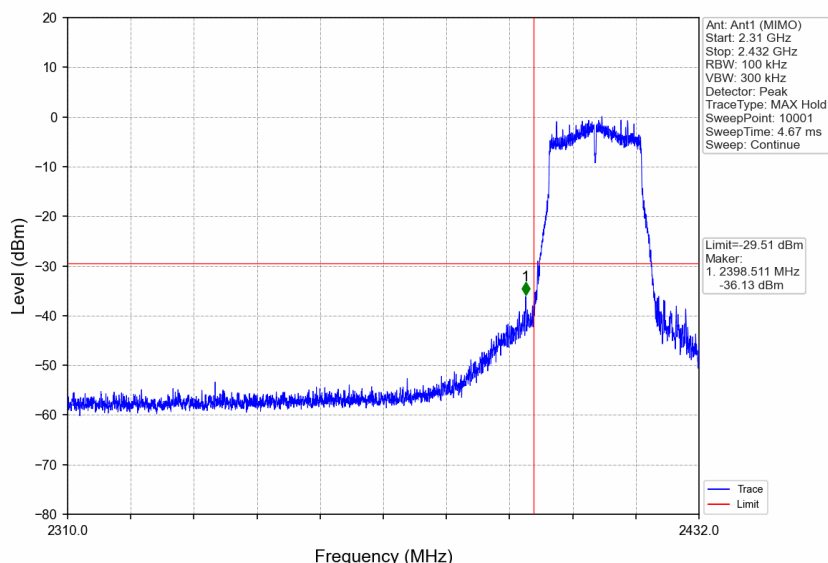
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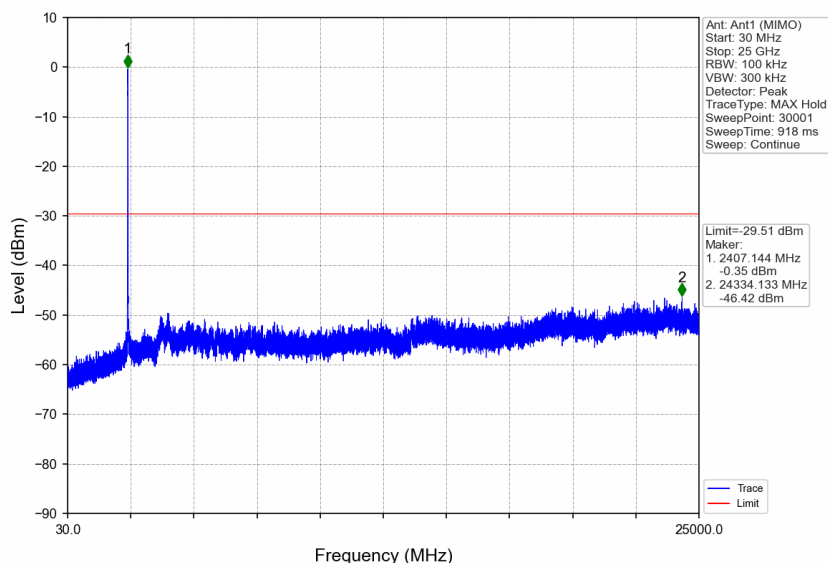
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



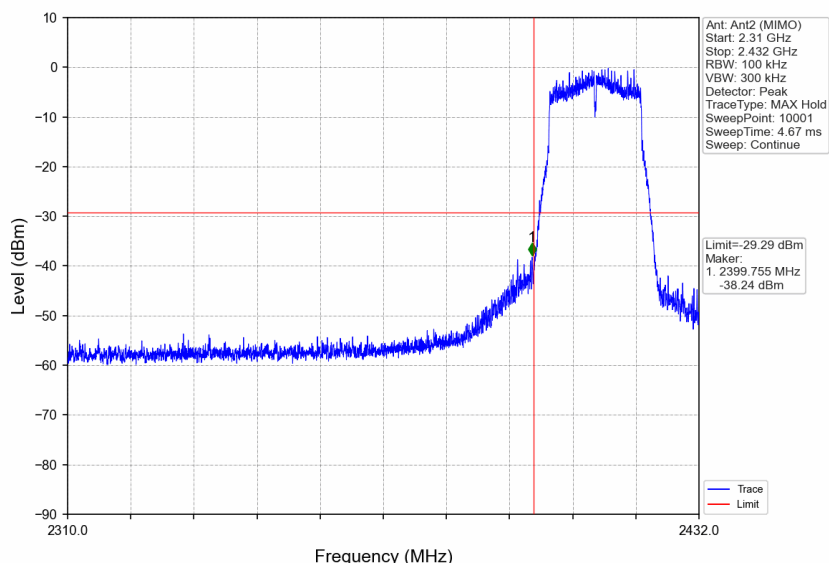
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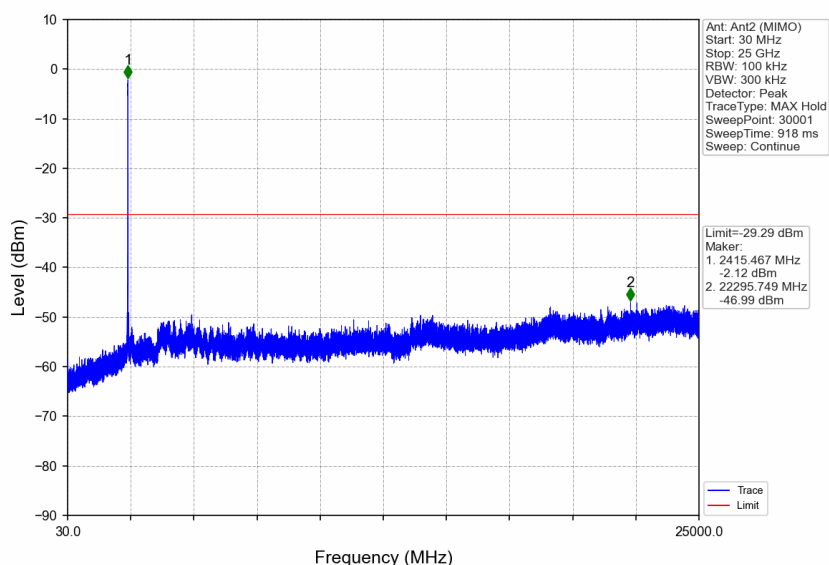
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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



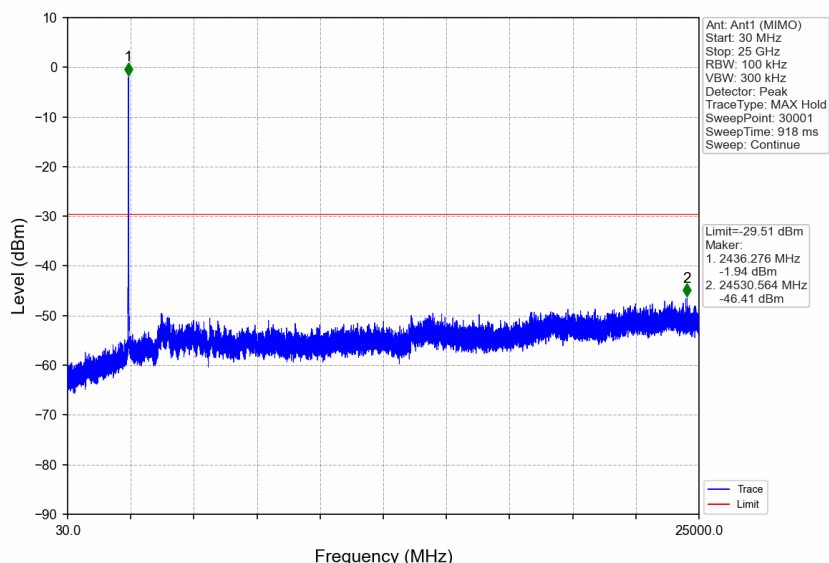
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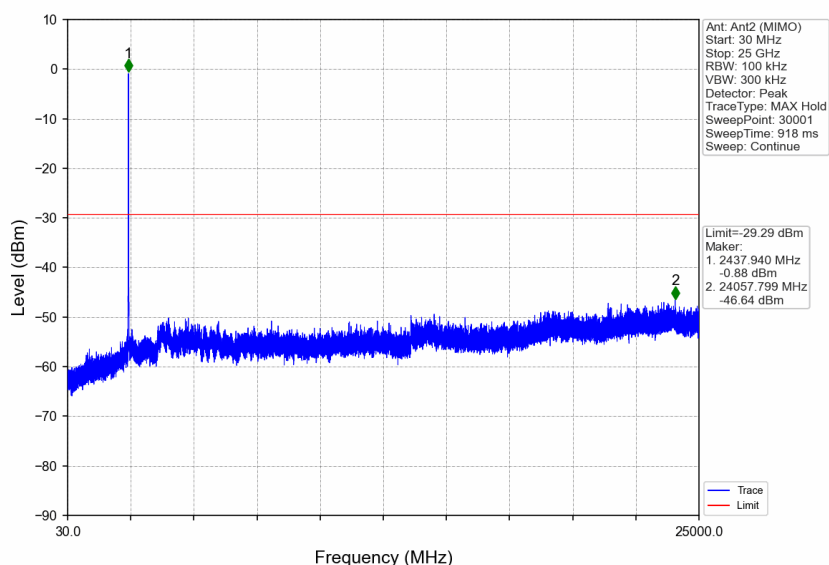
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



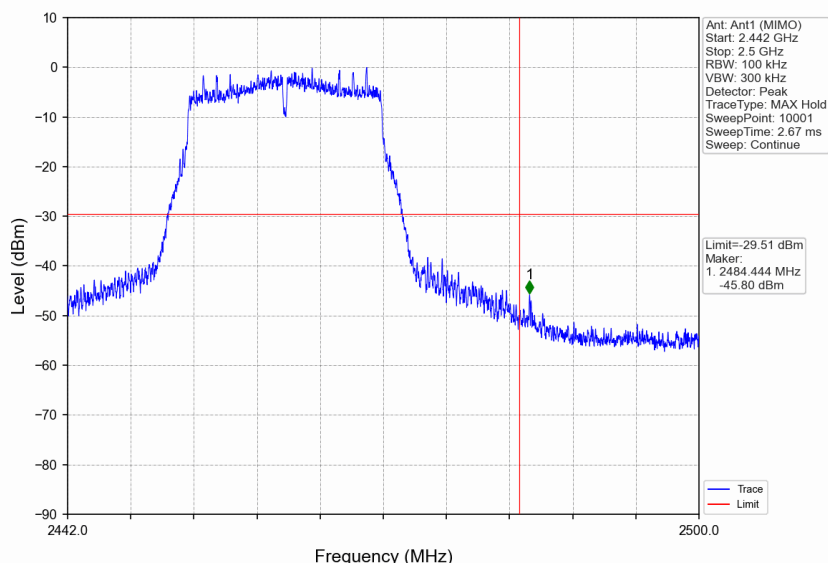
802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



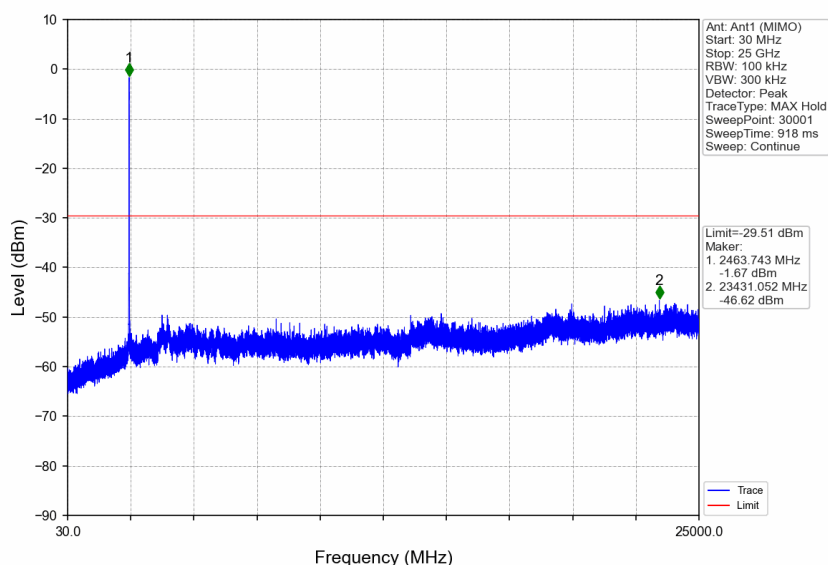
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



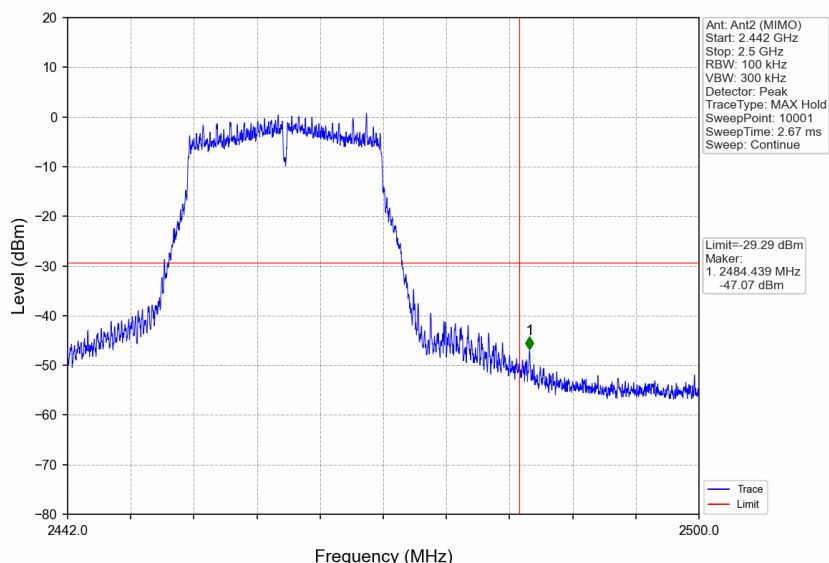
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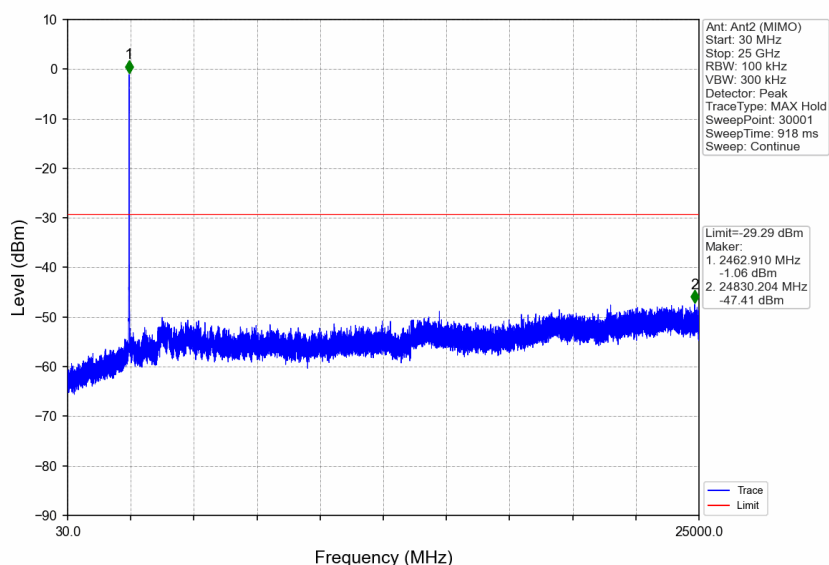
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802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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