

Appendix A for SHCR211100084501

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

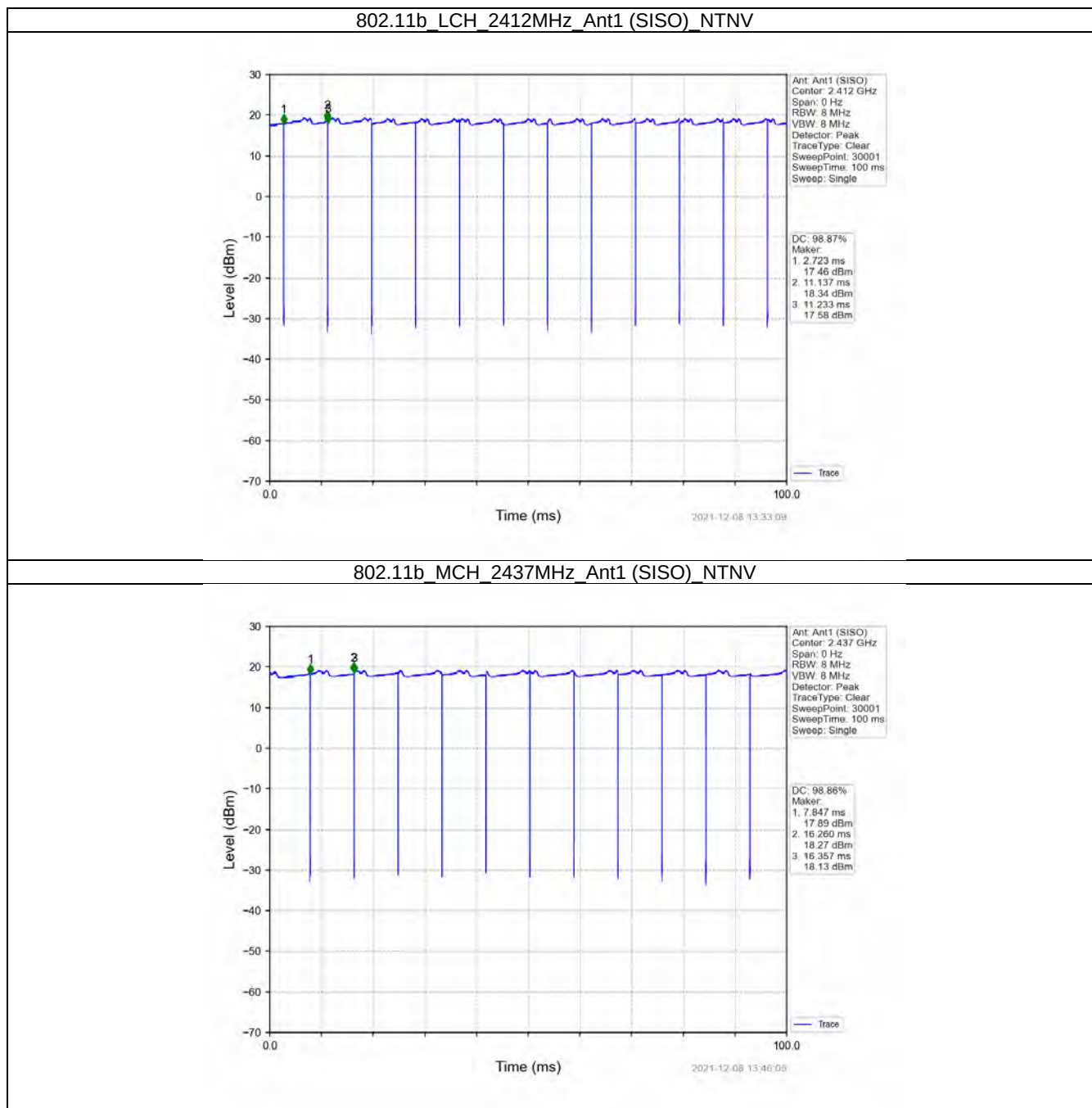
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.414	8.510	98.87	0.05	0.04
		2437	8.413	8.510	98.86	0.05	0.04
		2462	8.413	11.057	76.09	1.19	0.03
802.11g	SISO	2412	2.064	2.724	75.77	1.20	0.03
		2437	2.063	2.724	75.73	1.21	0.03
		2462	2.063	2.093	98.57	0.06	0.04
802.11n (HT20)	MIMO	2412	1.919	2.420	79.30	1.01	0.04
		2437	1.919	2.420	79.30	1.01	0.04
		2462	1.919	2.420	79.30	1.01	0.04



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1.1.2 Test Graph



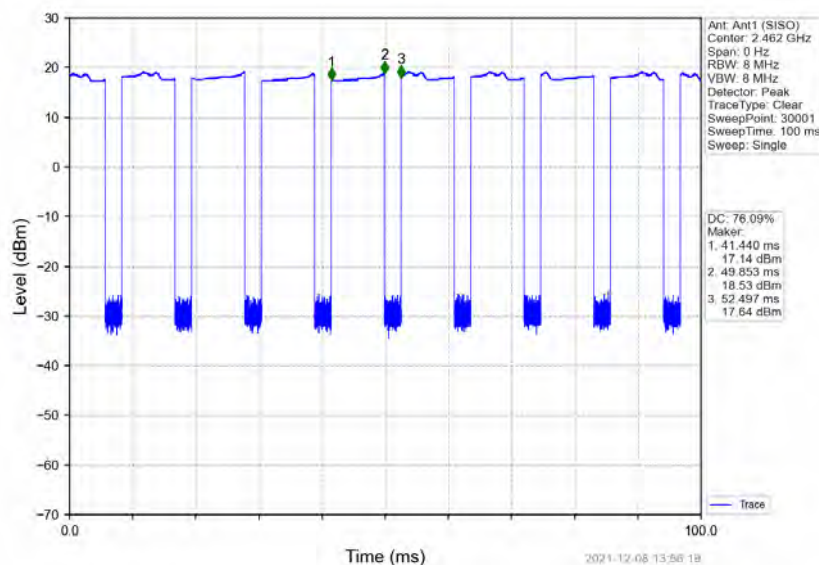
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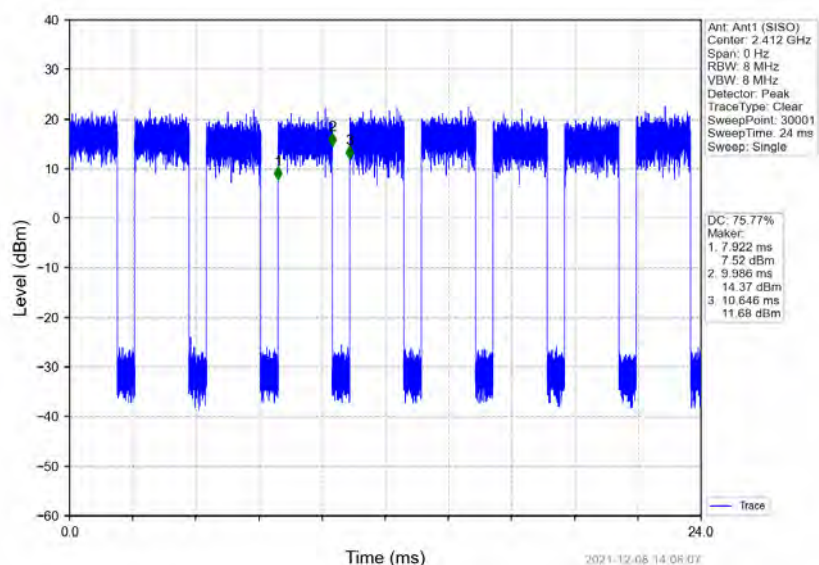
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant1 (SISO) NTNV



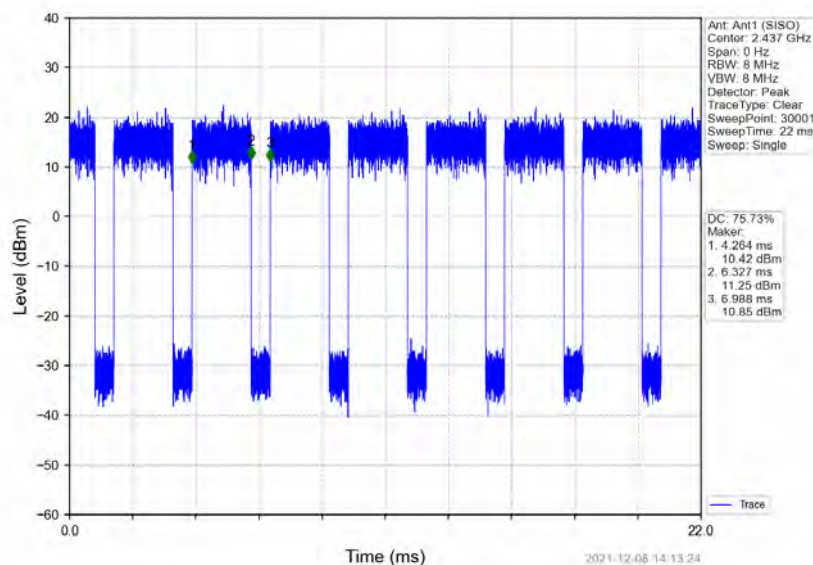
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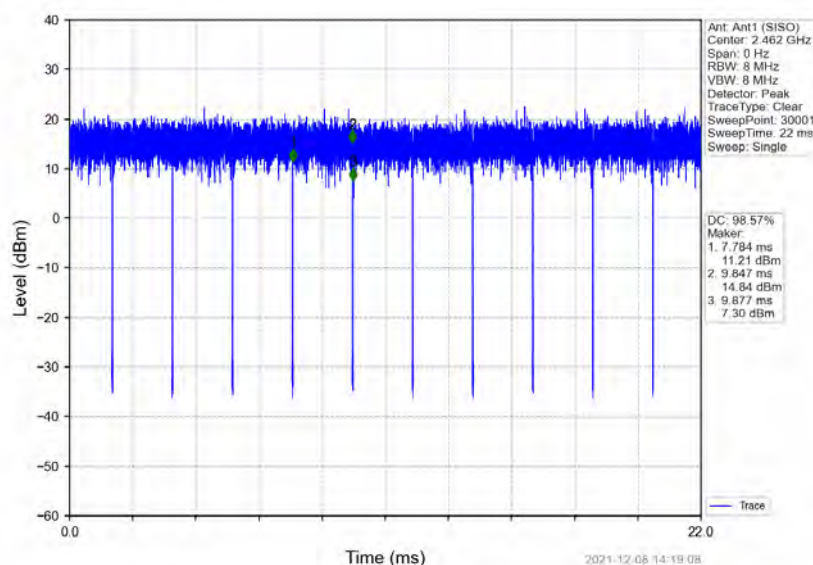
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN



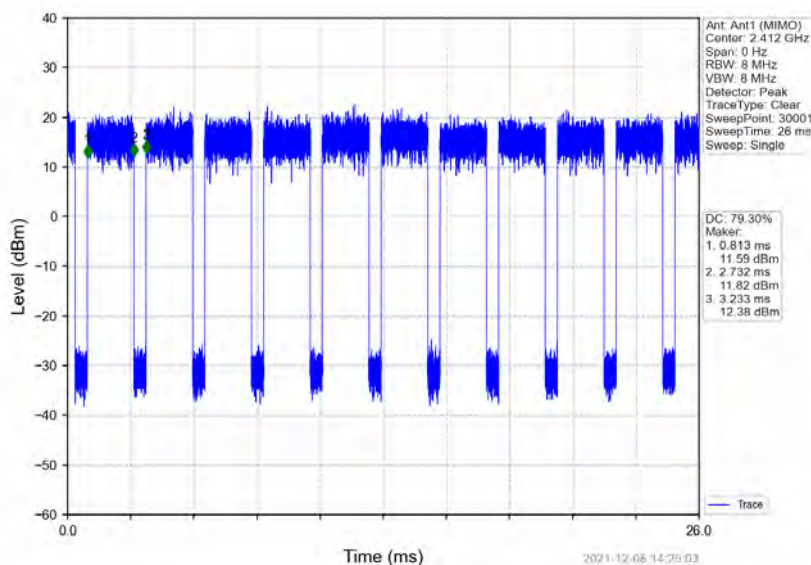
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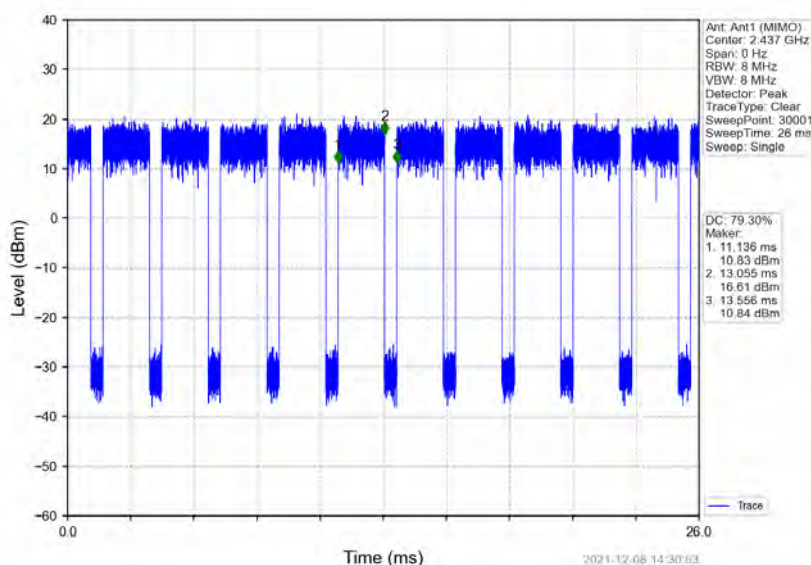
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO) NTN

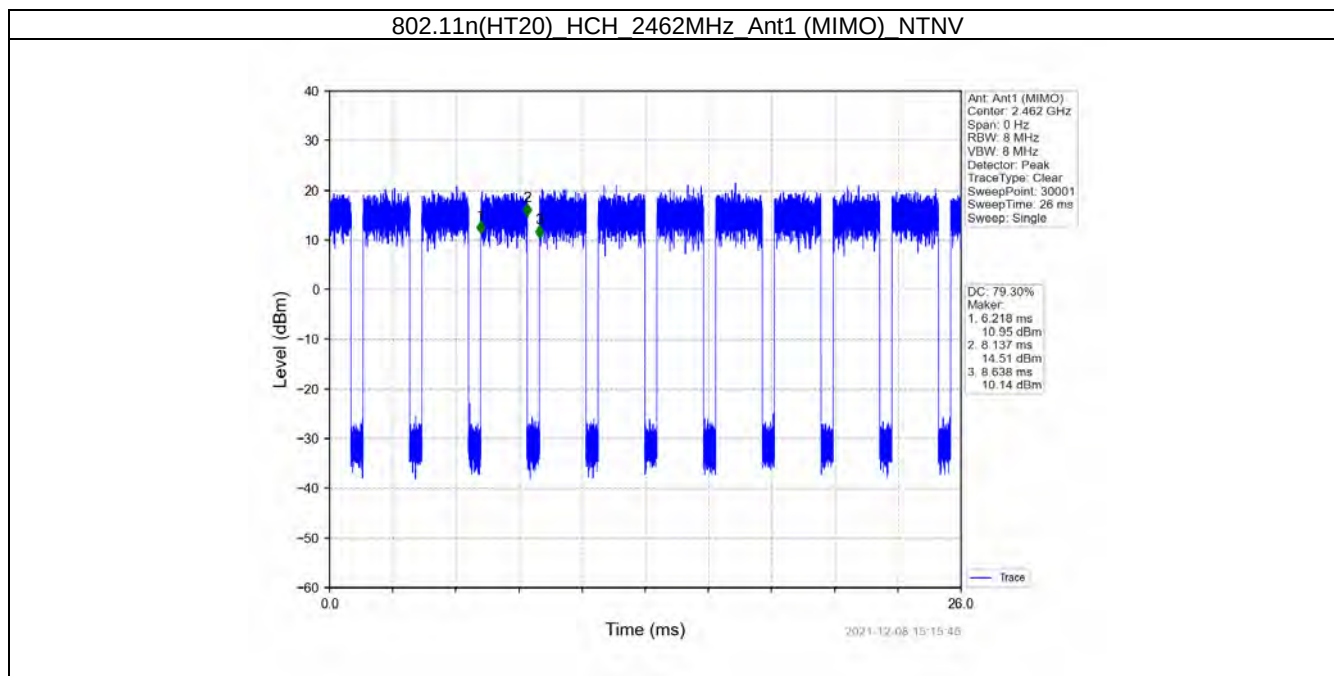


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2. Bandwidth

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	11.859	Pass
			2	12.117	Pass
		2437	1	11.980	Pass
			2	12.172	Pass
		2462	1	12.015	Pass
			2	12.132	Pass
802.11g	SISO	2412	1	18.019	Pass
			2	17.506	Pass
		2437	1	17.996	Pass
			2	17.563	Pass
		2462	1	17.967	Pass
			2	17.535	Pass
802.11n (HT20)	MIMO	2412	1	18.919	Pass
			2	18.318	Pass
		2437	1	18.931	Pass
			2	18.265	Pass
		2462	1	18.962	Pass
			2	18.273	Pass



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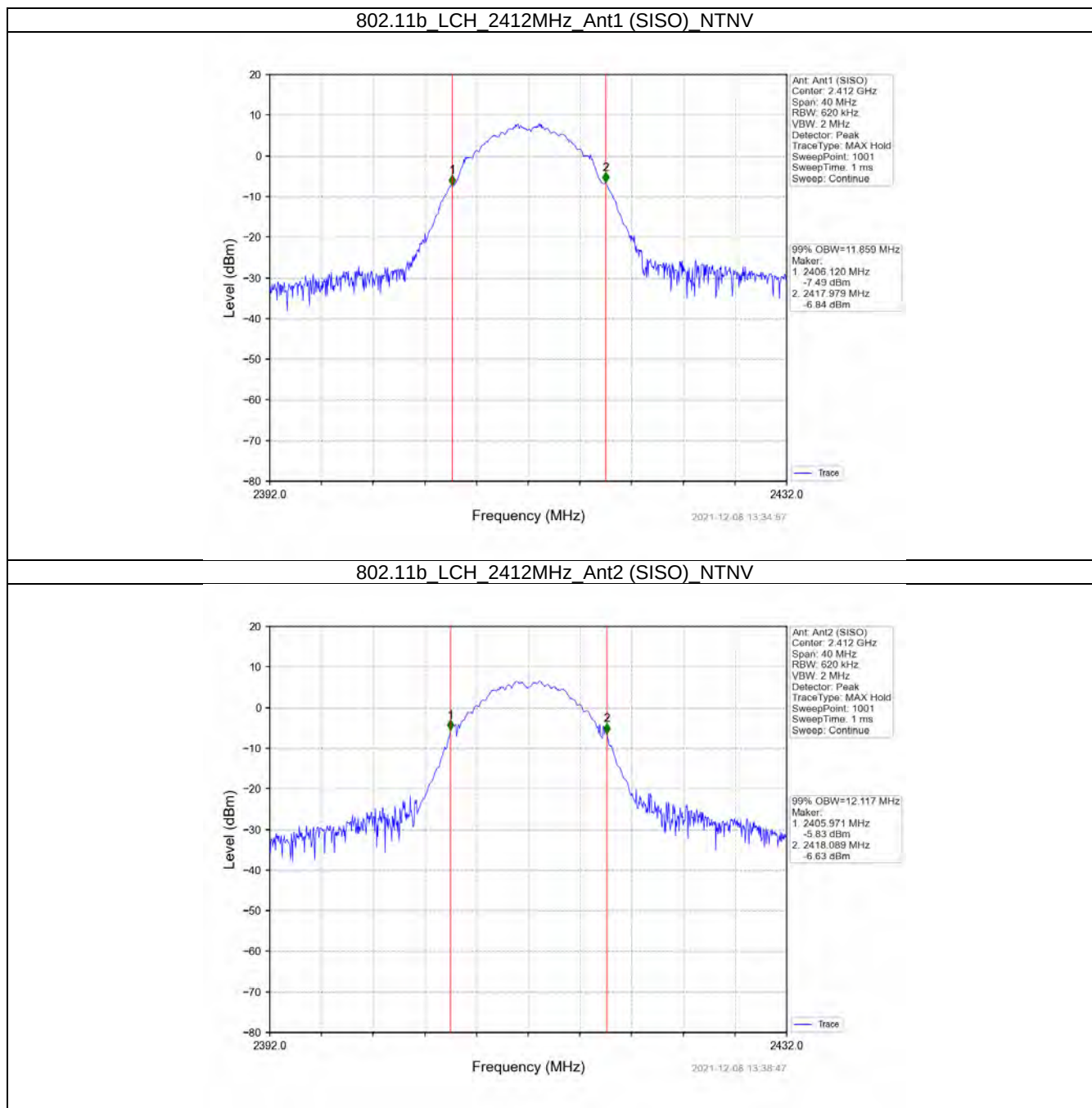
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2.1.2 Test Graph



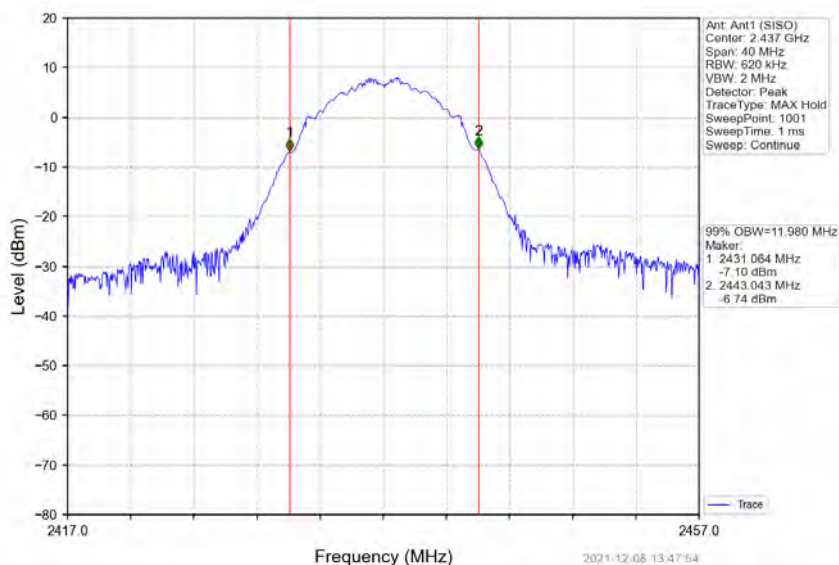
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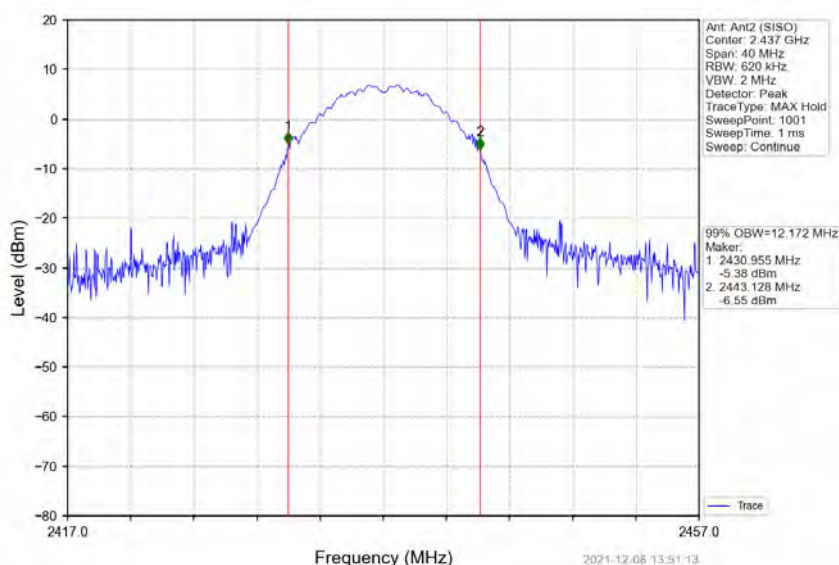
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802.11b MCH 2437MHz Ant2 (SISO) NTN



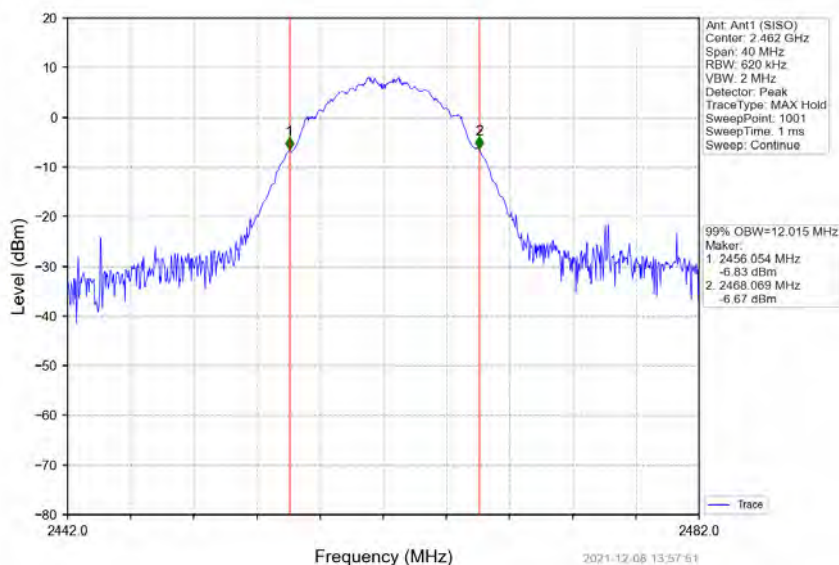
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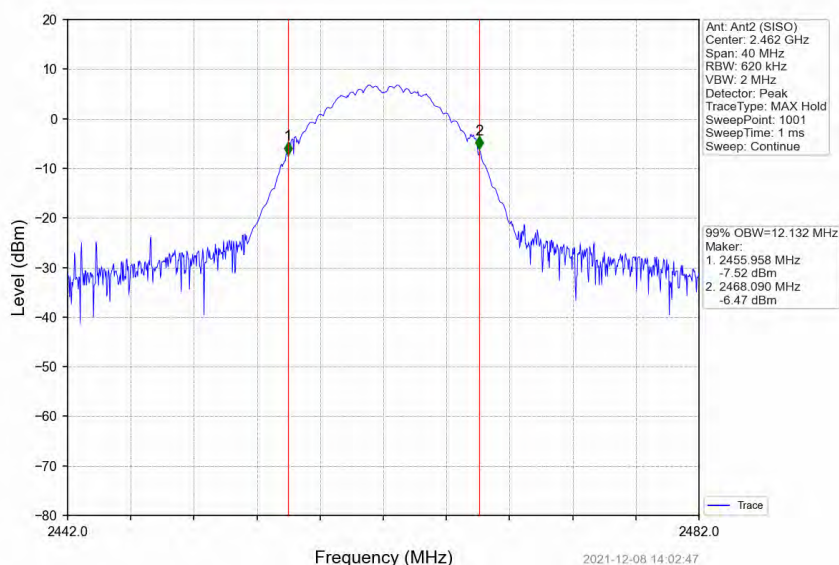
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802.11b HCH 2462MHz Ant2 (SISO) NTN



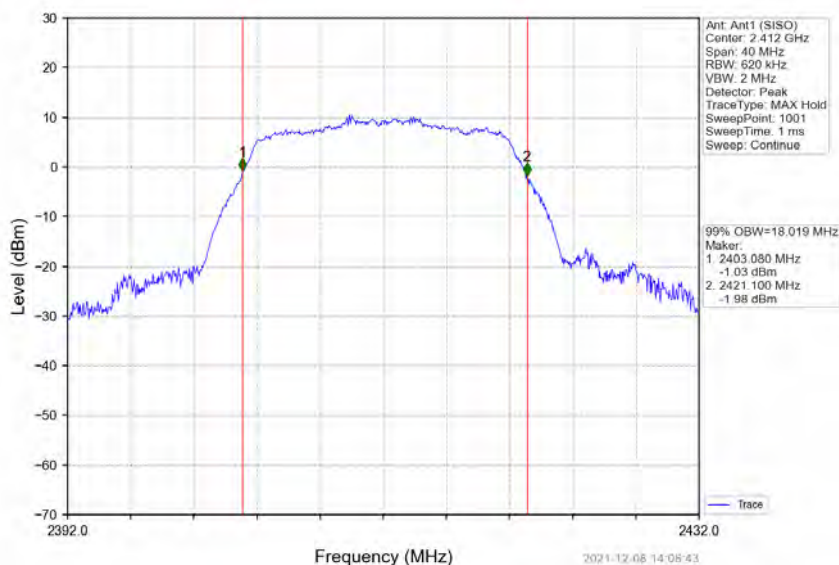
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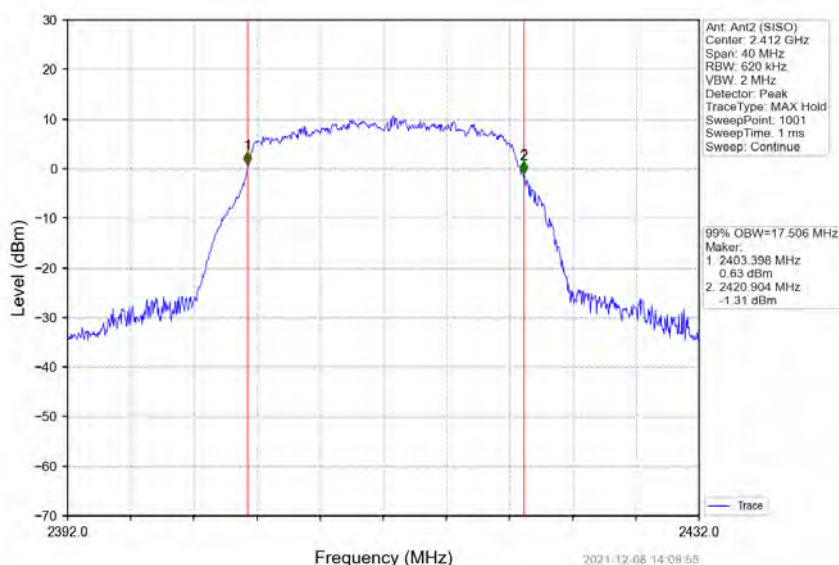
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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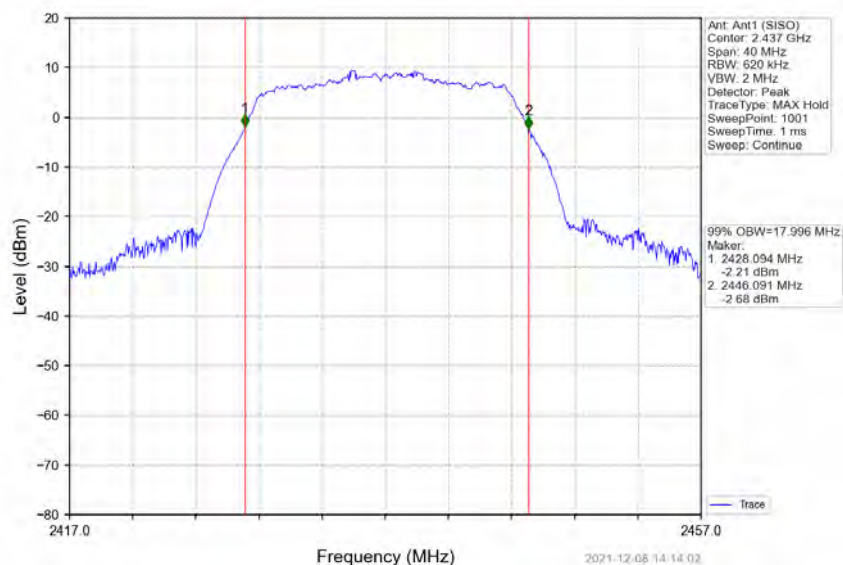
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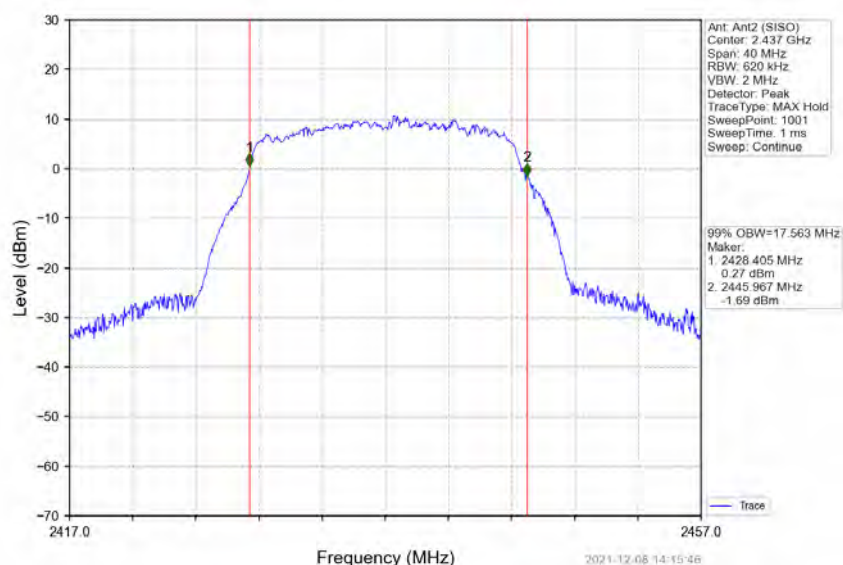
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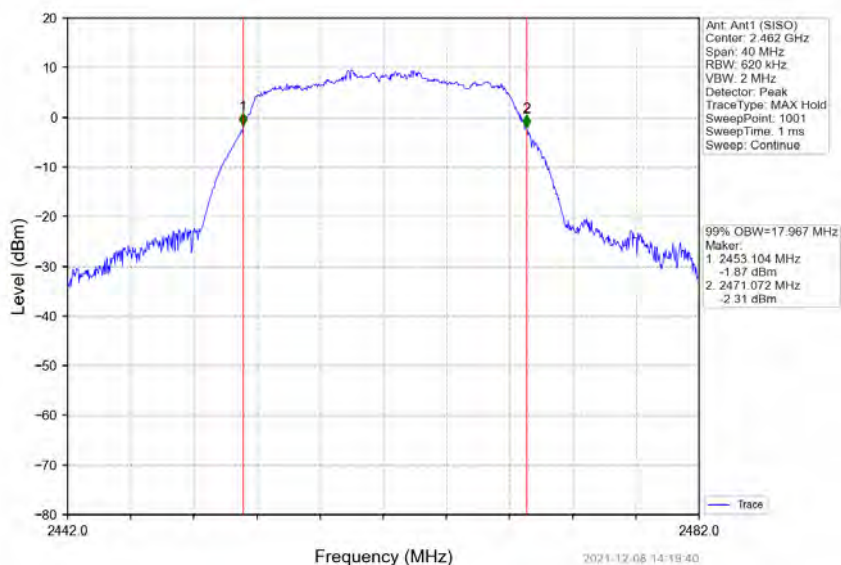
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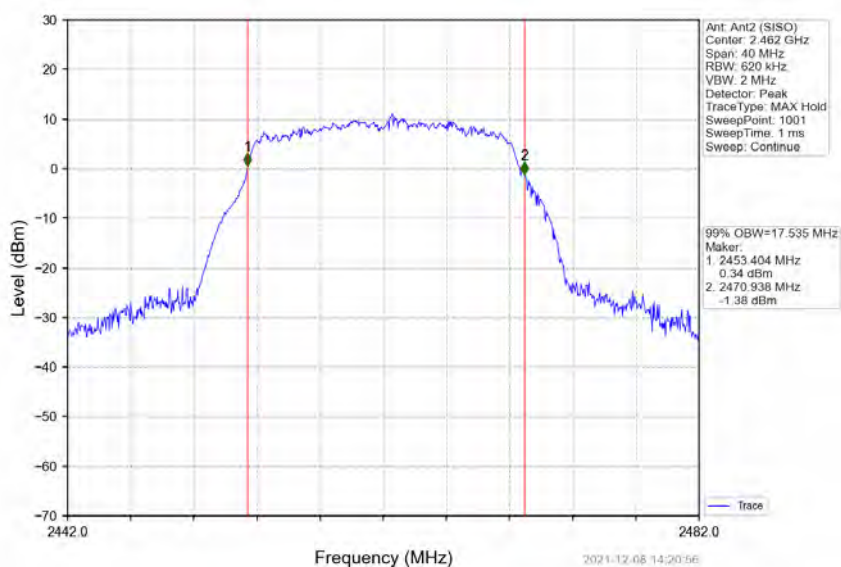
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802.11g HCH 2462MHz Ant2 (SISO) NTN



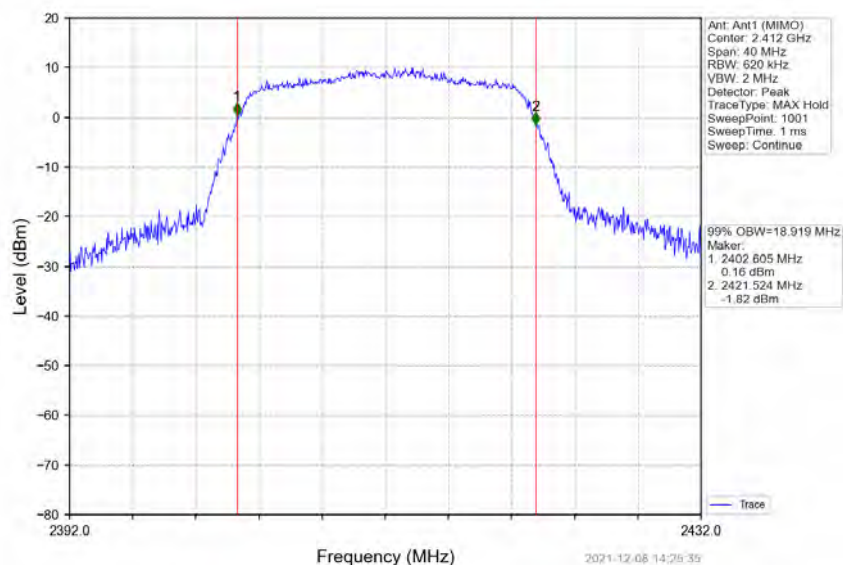
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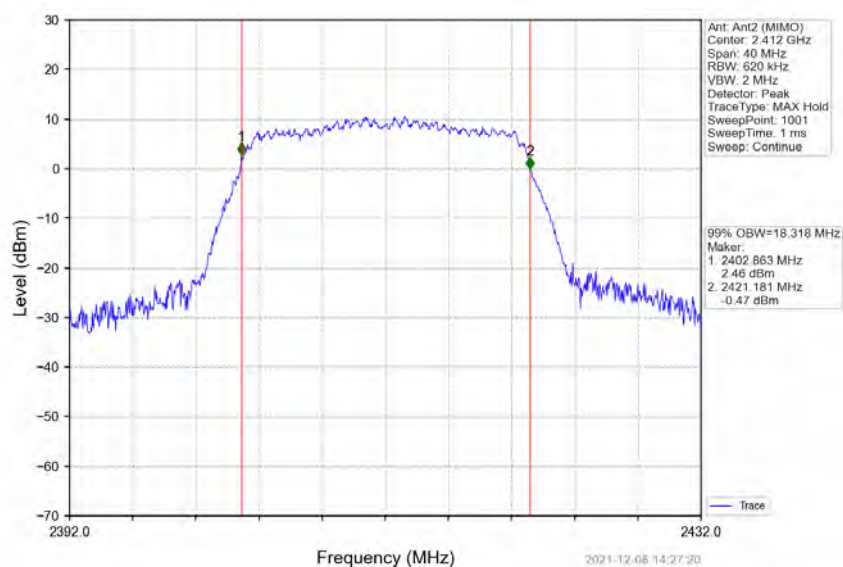
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



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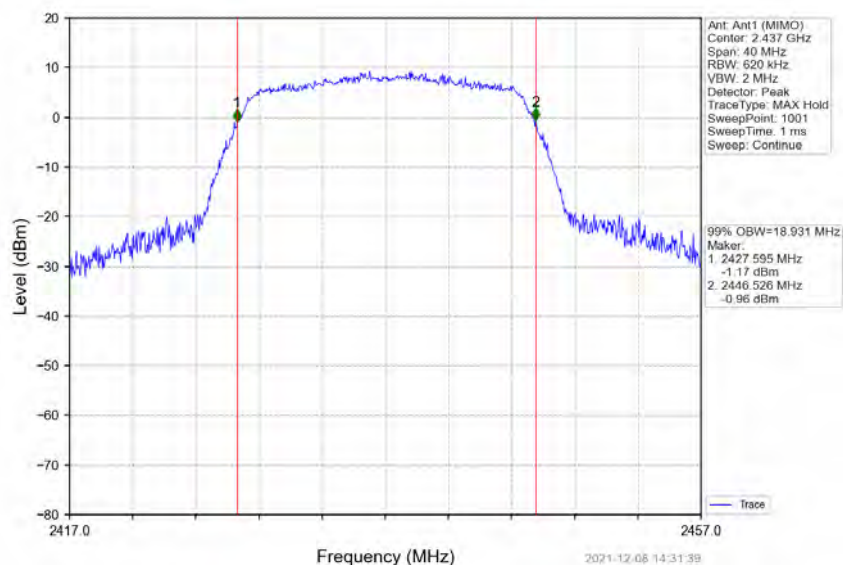
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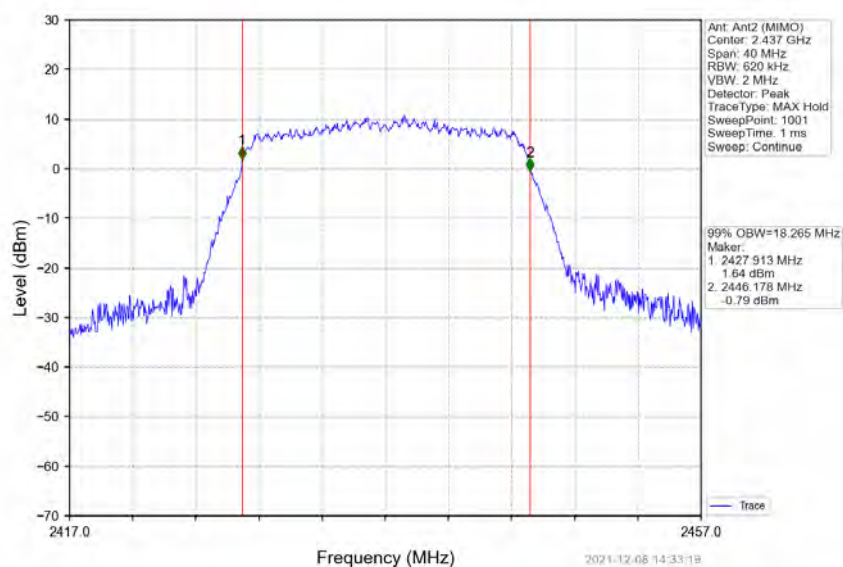
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



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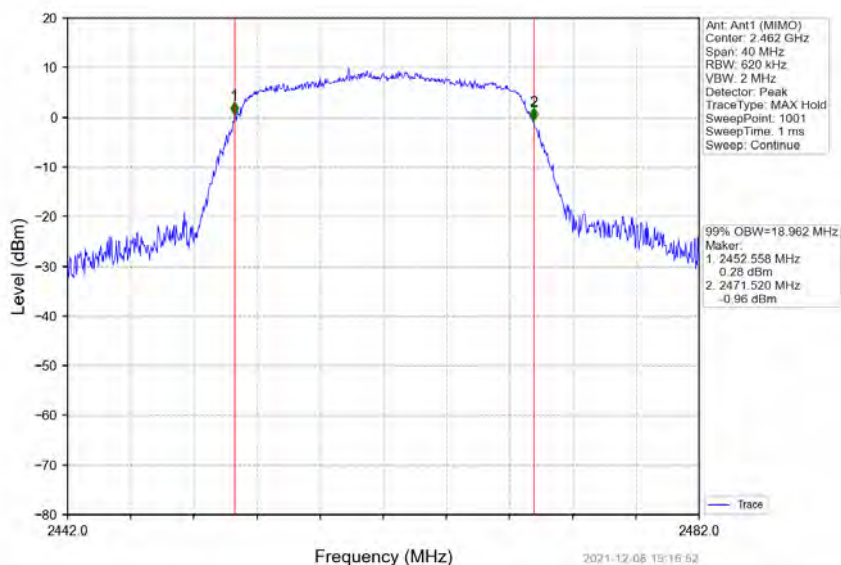
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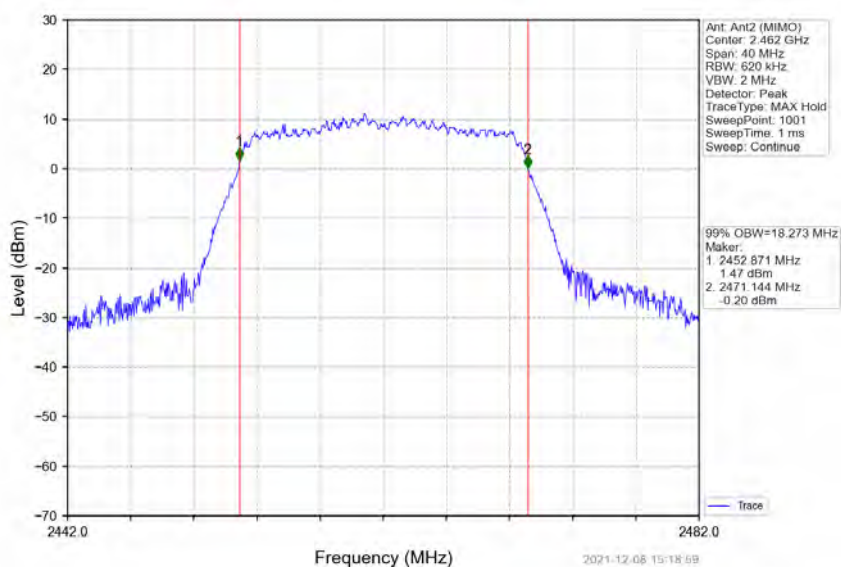
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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



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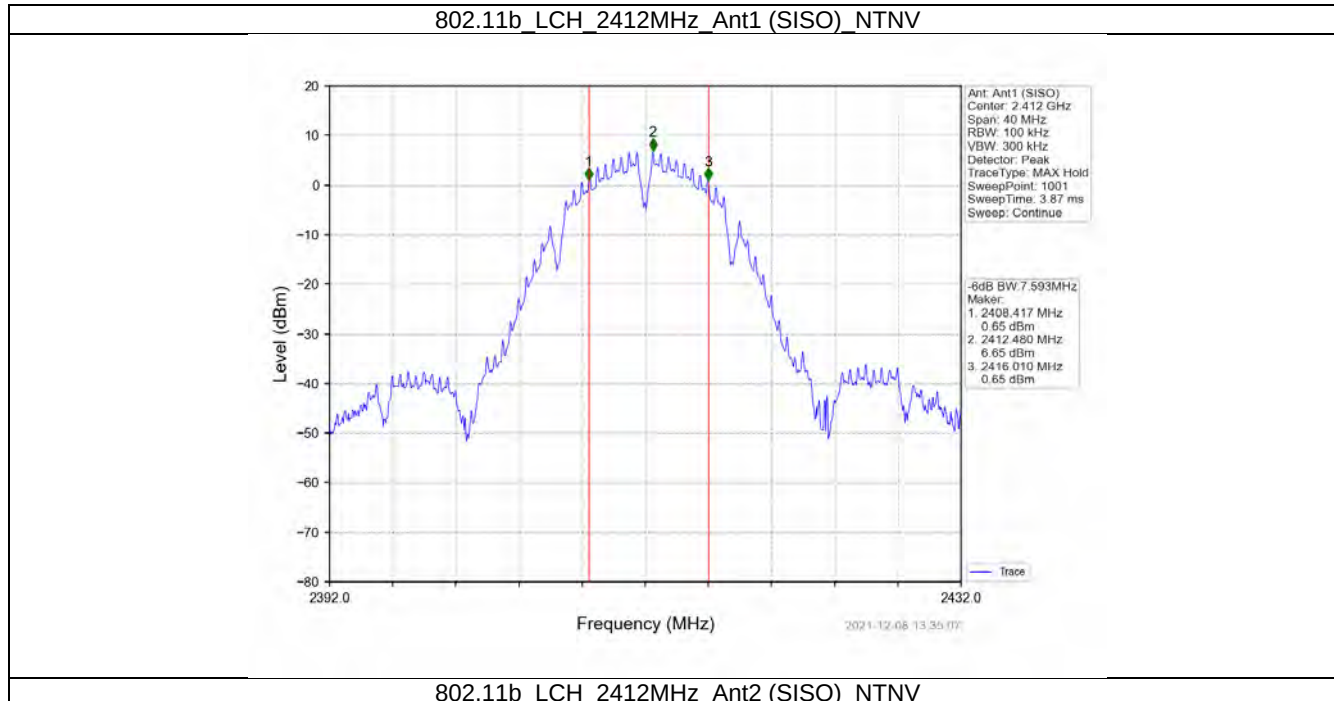
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.593	≥ 0.5	Pass
			2	8.063	≥ 0.5	Pass
		2437	1	8.061	≥ 0.5	Pass
			2	7.595	≥ 0.5	Pass
		2462	1	8.045	≥ 0.5	Pass
			2	8.062	≥ 0.5	Pass
802.11g	SISO	2412	1	16.373	≥ 0.5	Pass
			2	16.399	≥ 0.5	Pass
		2437	1	16.379	≥ 0.5	Pass
			2	16.417	≥ 0.5	Pass
		2462	1	16.398	≥ 0.5	Pass
			2	16.399	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.610	≥ 0.5	Pass
			2	17.638	≥ 0.5	Pass
		2437	1	17.620	≥ 0.5	Pass
			2	17.660	≥ 0.5	Pass
		2462	1	17.616	≥ 0.5	Pass
			2	17.649	≥ 0.5	Pass

2.2.2 Test Graph



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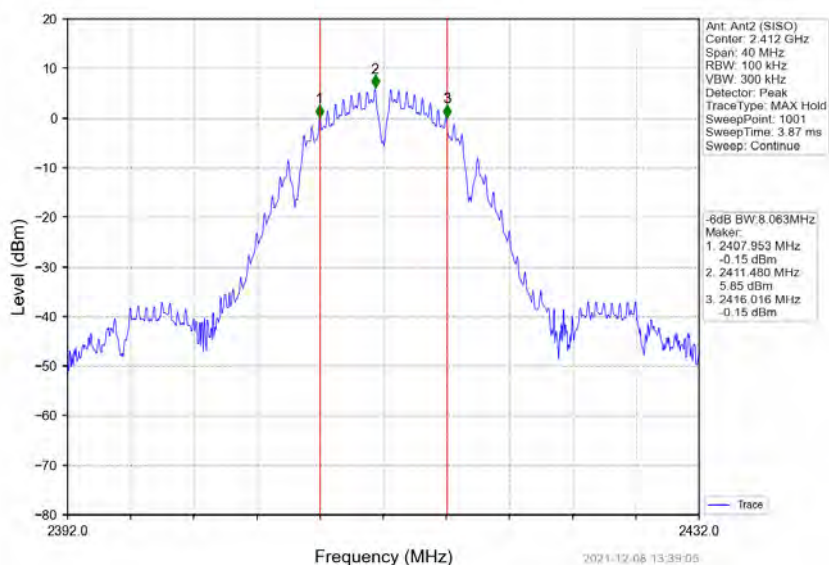
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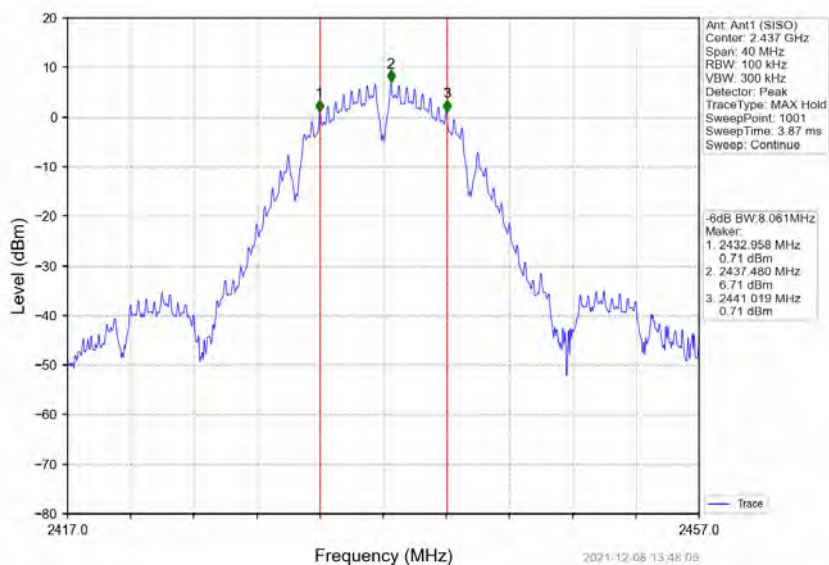
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802.11b MCH 2437MHz Ant1 (SISO) NTV



802.11b MCH 2437MHz Ant2 (SISO) NTV



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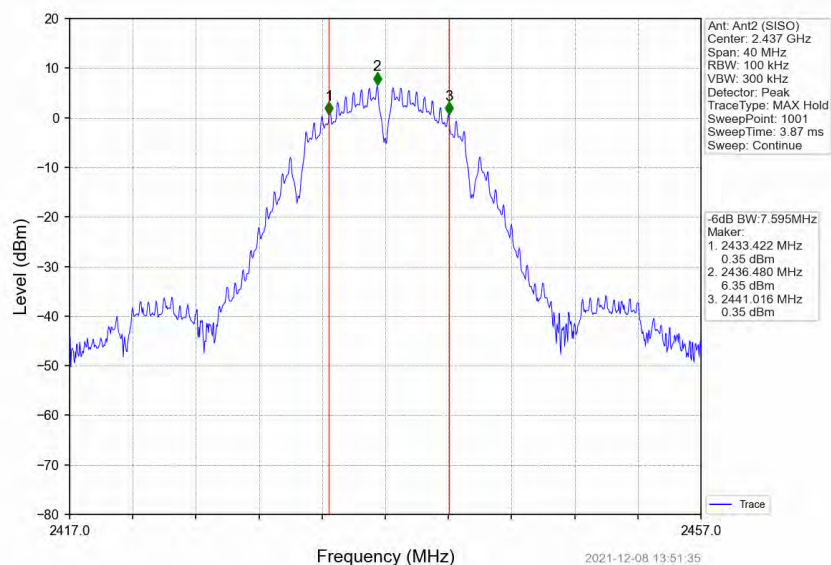
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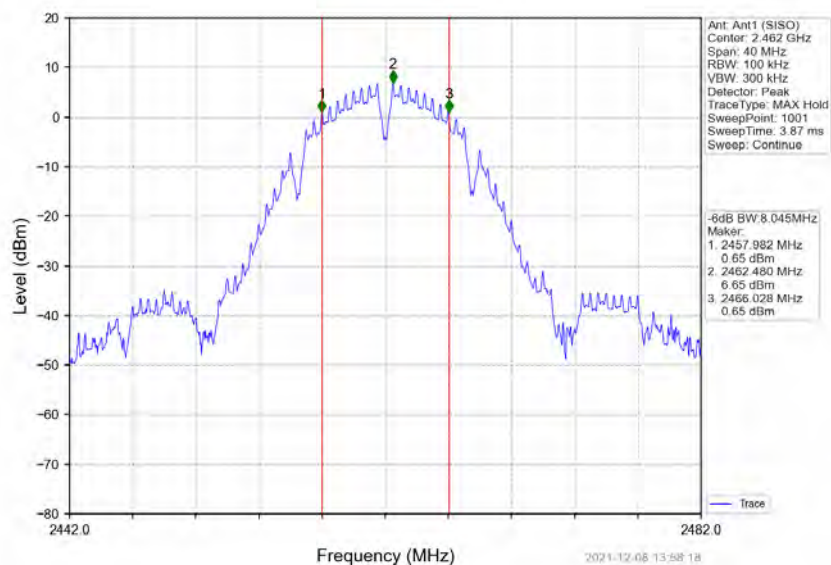
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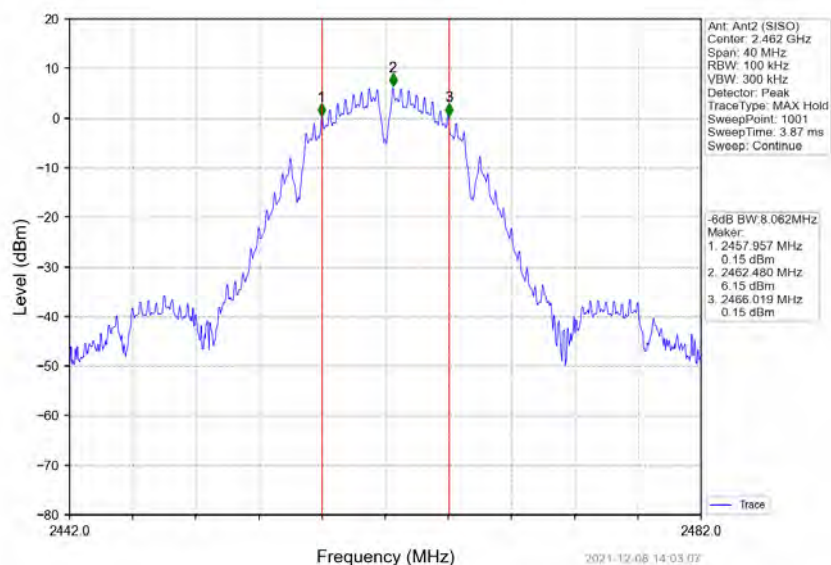
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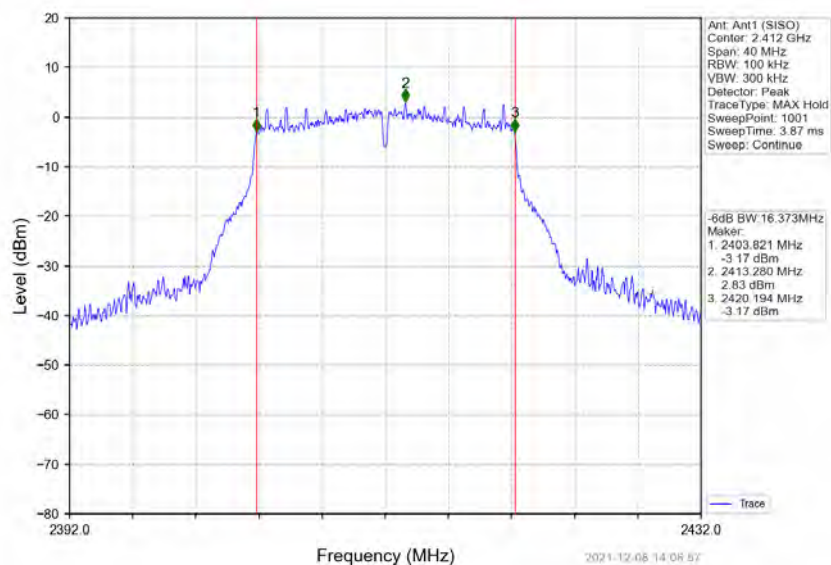
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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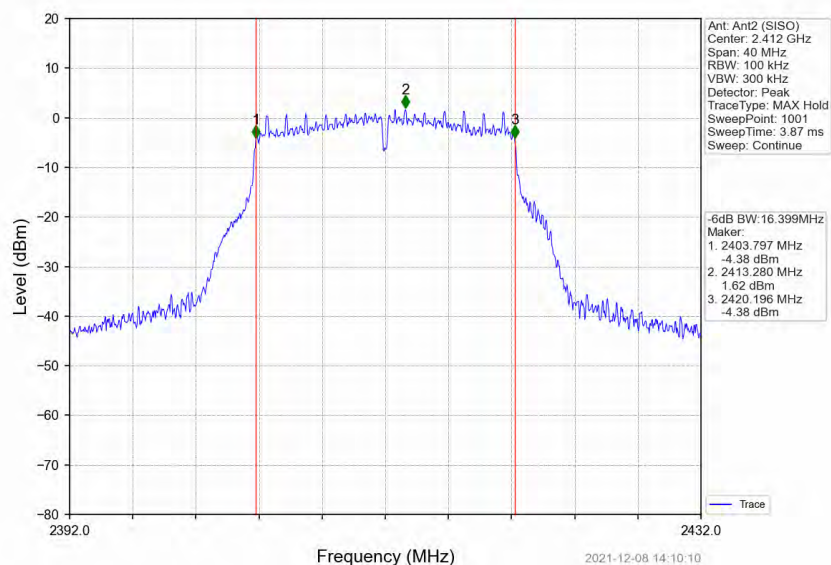
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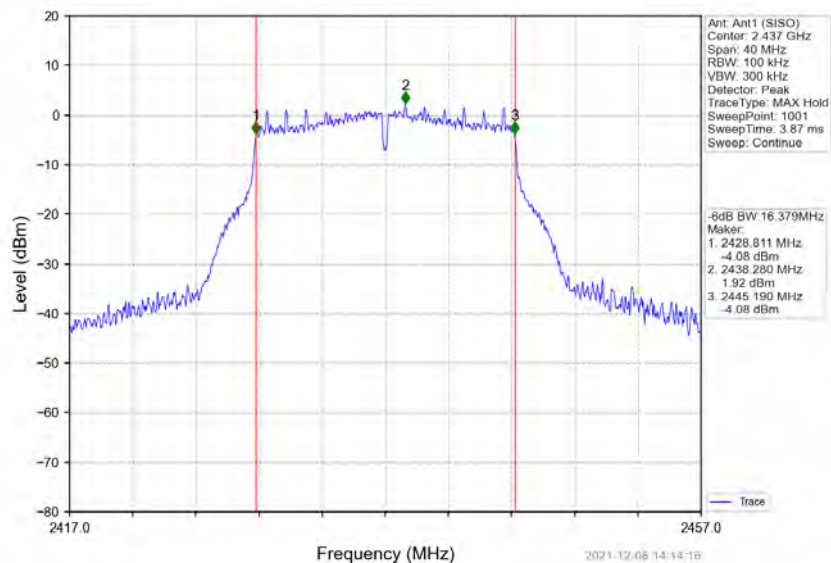
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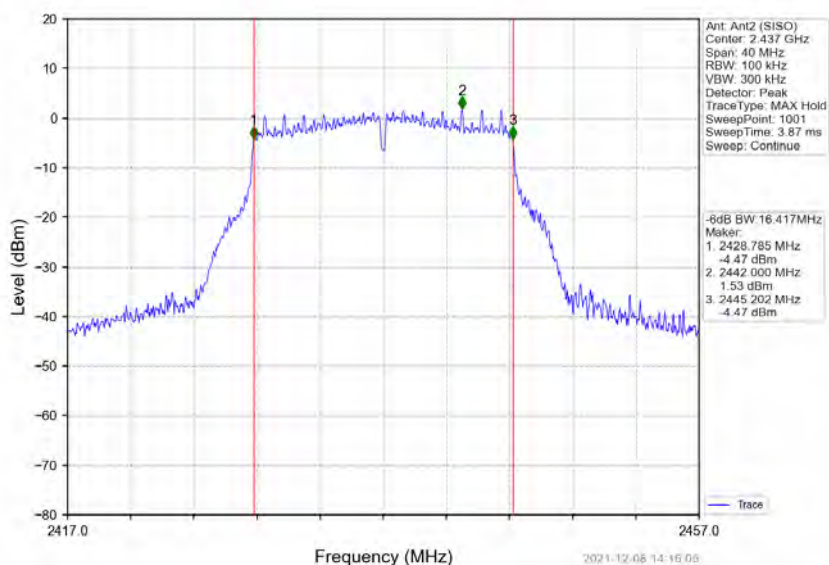
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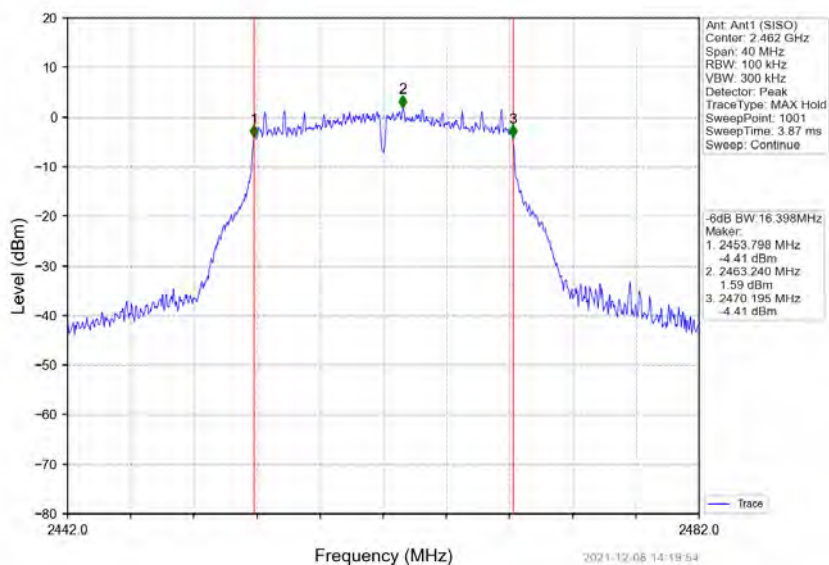
802.11g MCH 2437MHz Ant1 (SISO) NTV



802.11g MCH 2437MHz Ant2 (SISO) NTV



802.11g HCH 2462MHz Ant1 (SISO) NTNV



802.11g HCH 2462MHz Ant2 (SISO) NTNV



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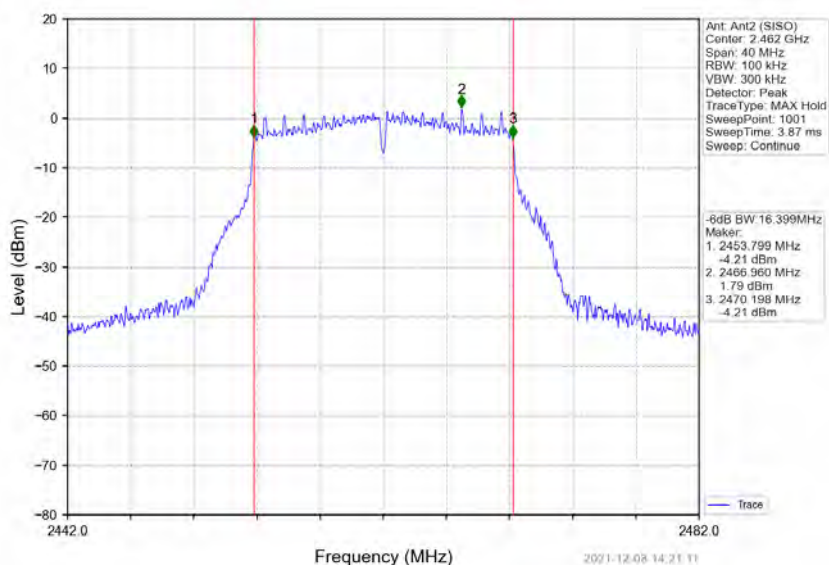
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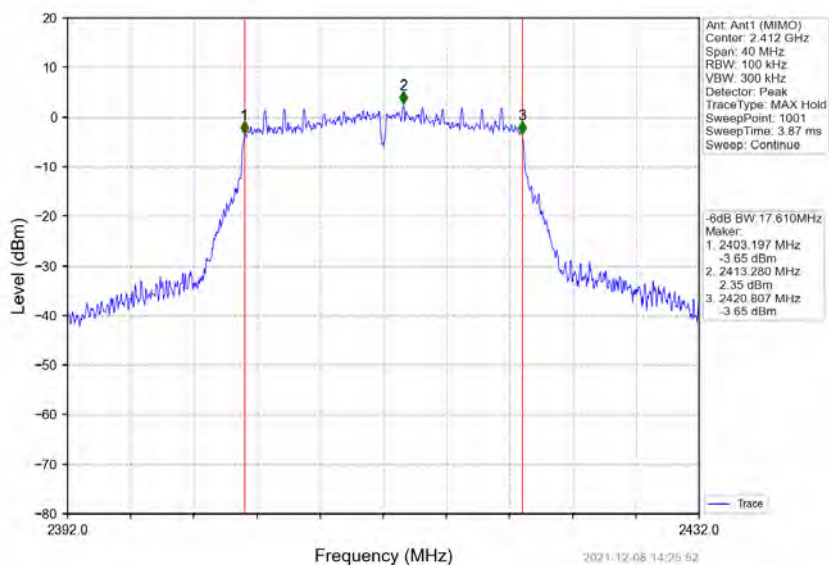
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802.11n(HT20) LCH 2412MHz_Ant1 (MIMO) NTN



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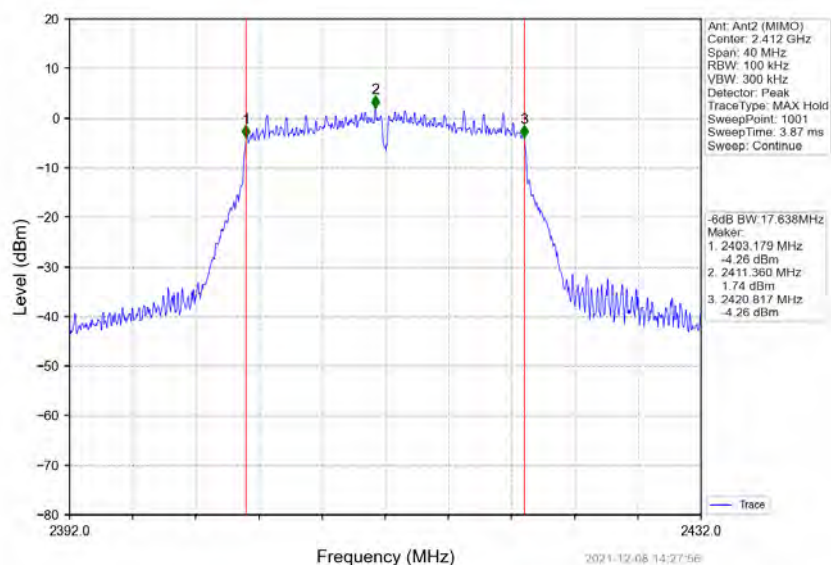


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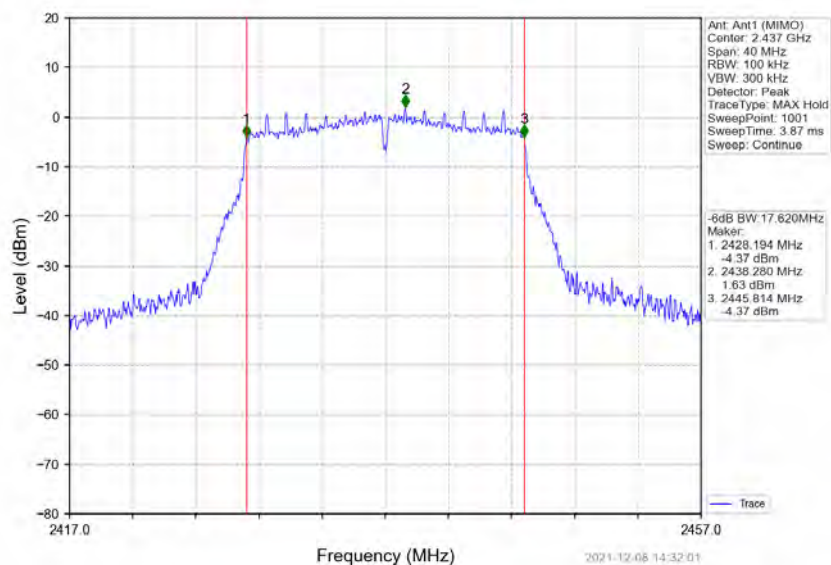
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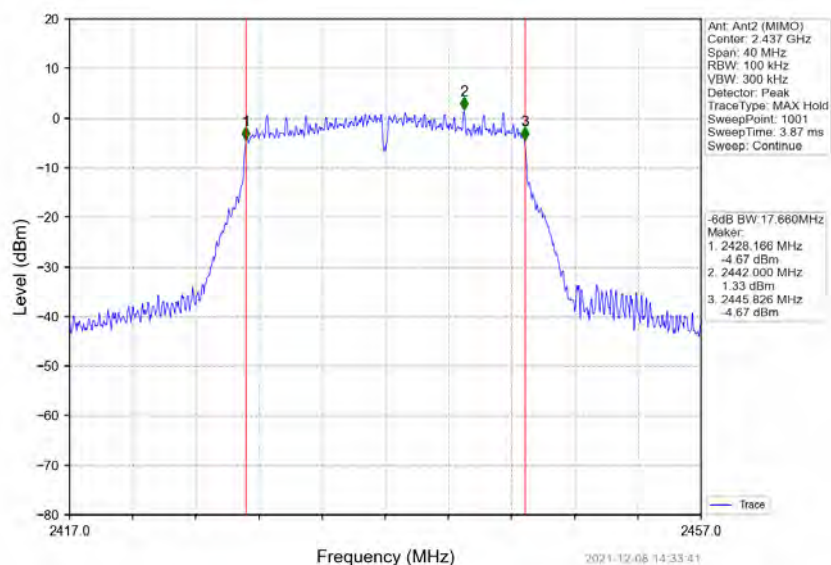
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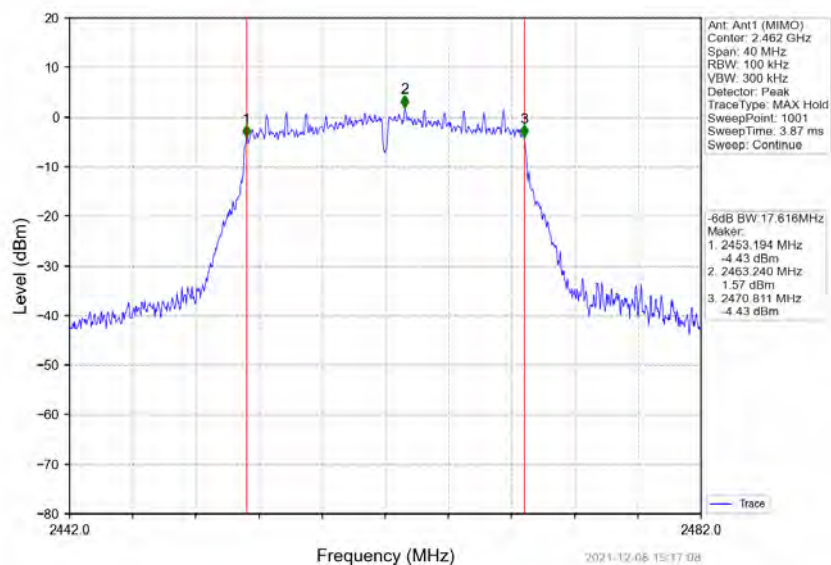
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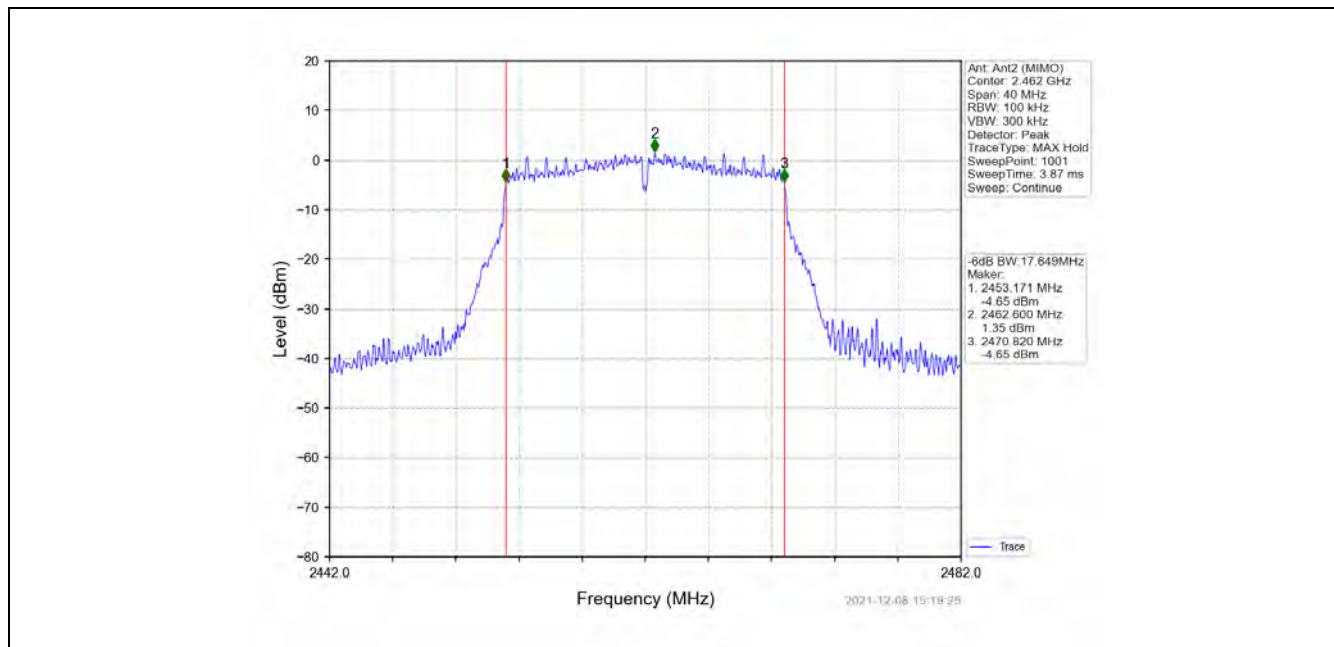
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3. Maximum Conducted Output Power

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	14.34	13.46	/	<=30	Pass
		2437	14.23	12.48	/	<=30	Pass
		2462	15.51	13.71	/	<=30	Pass
802.11g	SISO	2412	14.11	14.25	/	<=30	Pass
		2437	14.32	13.28	/	<=30	Pass
		2462	12.10	13.45	/	<=30	Pass
802.11n (HT20)	MIMO	2412	13.99	13.10	16.58	<=30	Pass
		2437	13.33	13.02	16.19	<=30	Pass
		2462	13.38	13.15	16.28	<=30	Pass

Note1: Antenna Gain: Ant1: 1.68dBi; Ant2: 3.42dBi;



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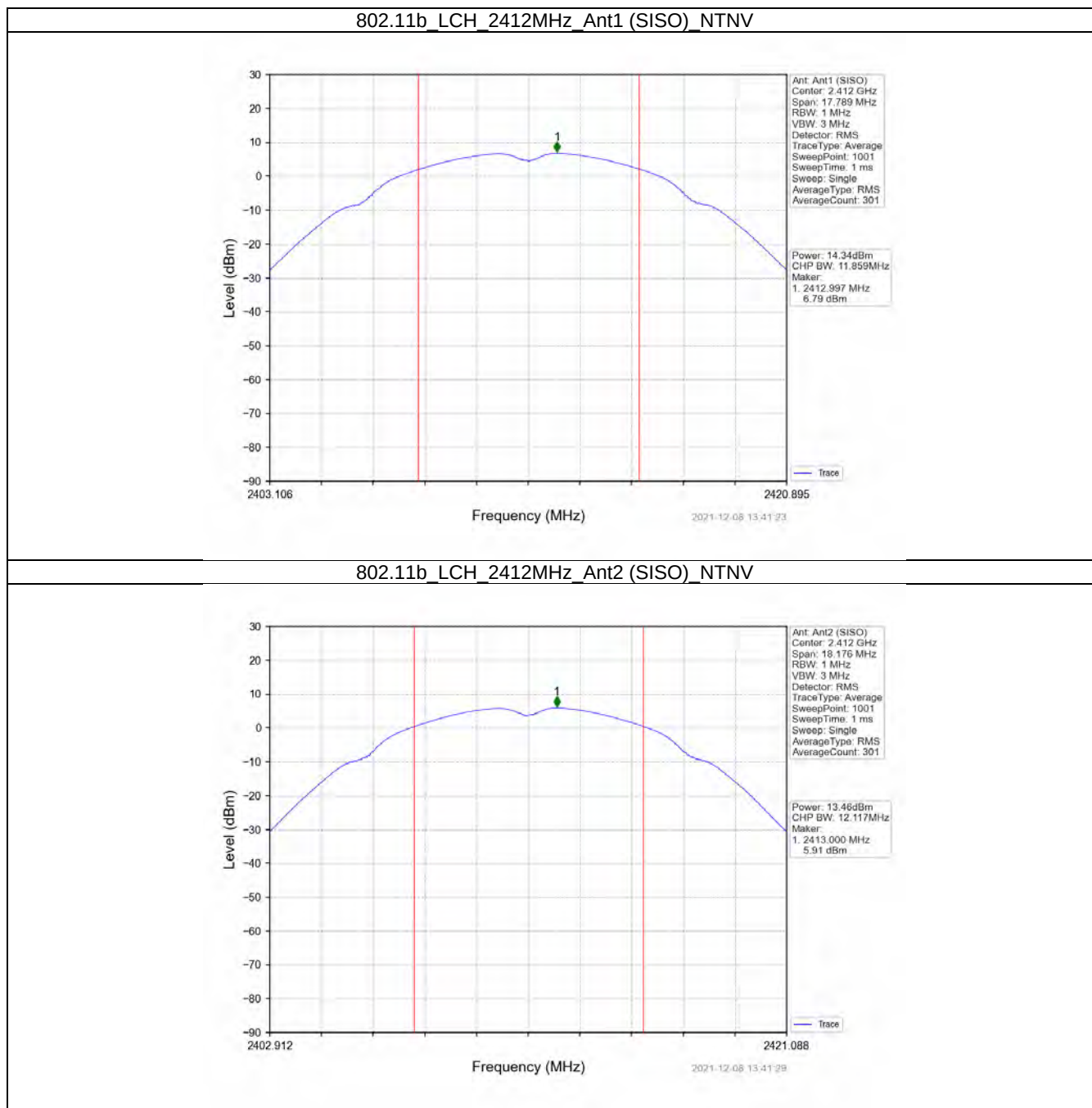
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3.1.2 Test Graph



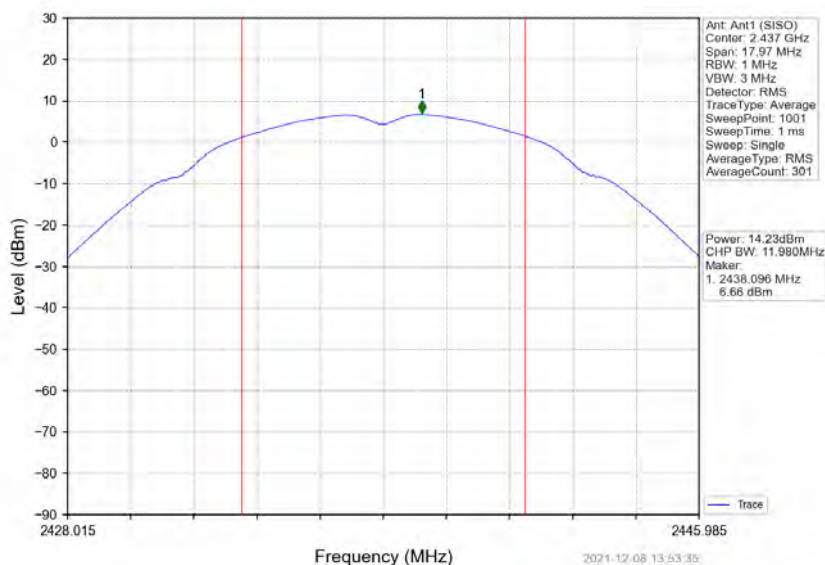
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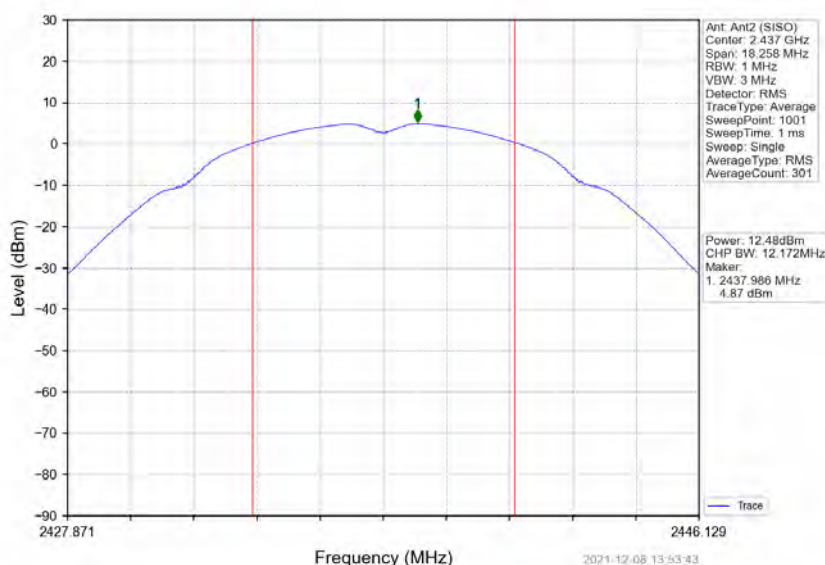
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



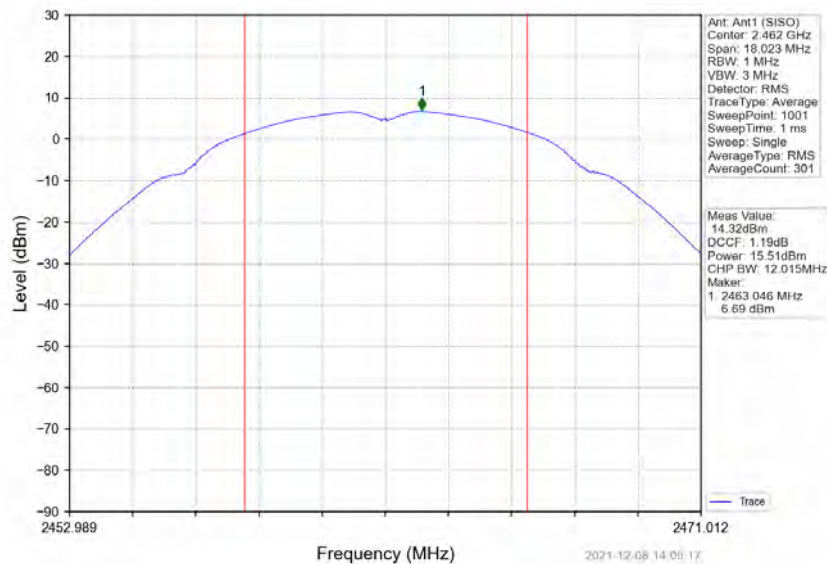
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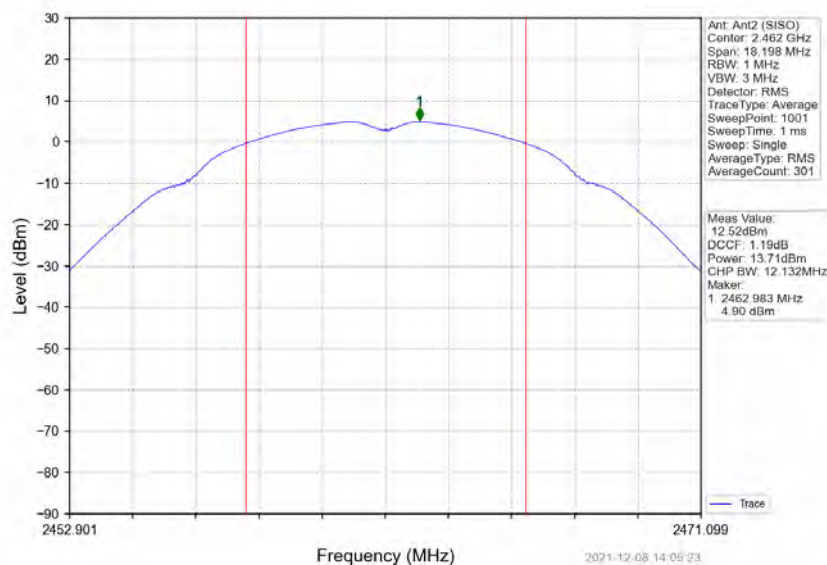
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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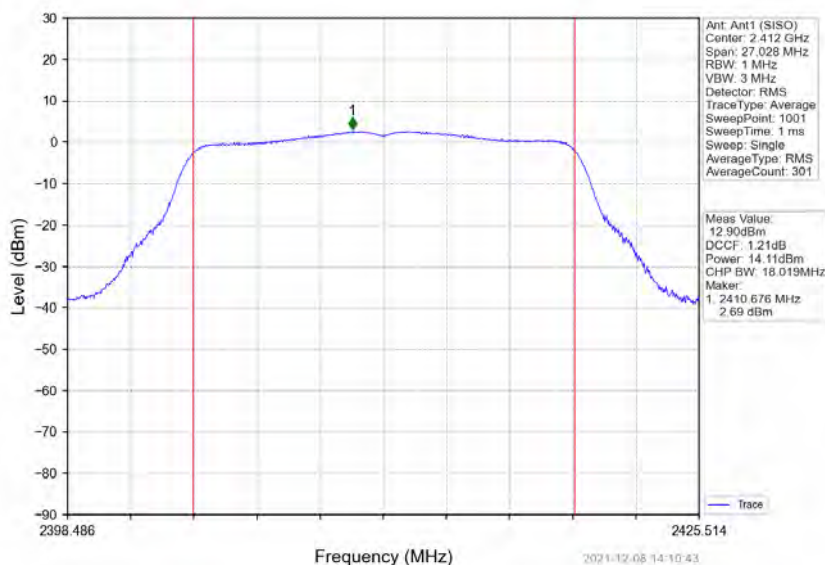
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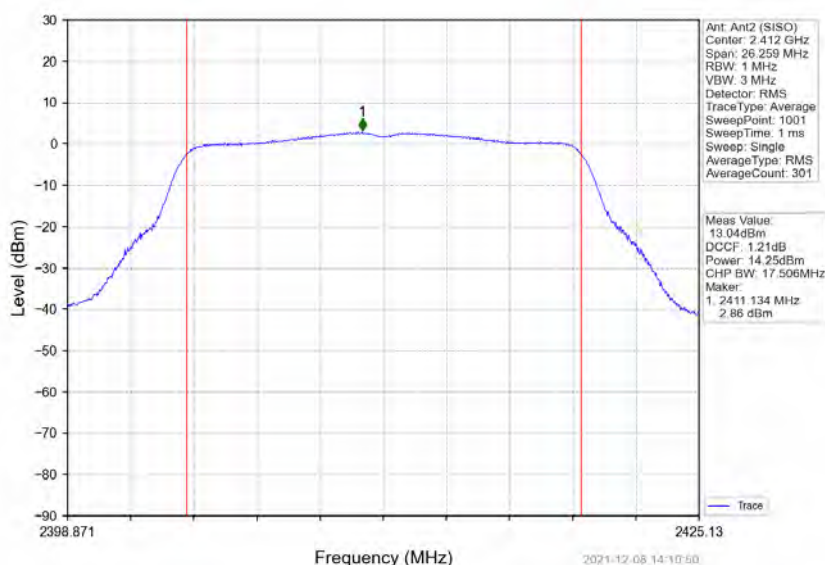
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



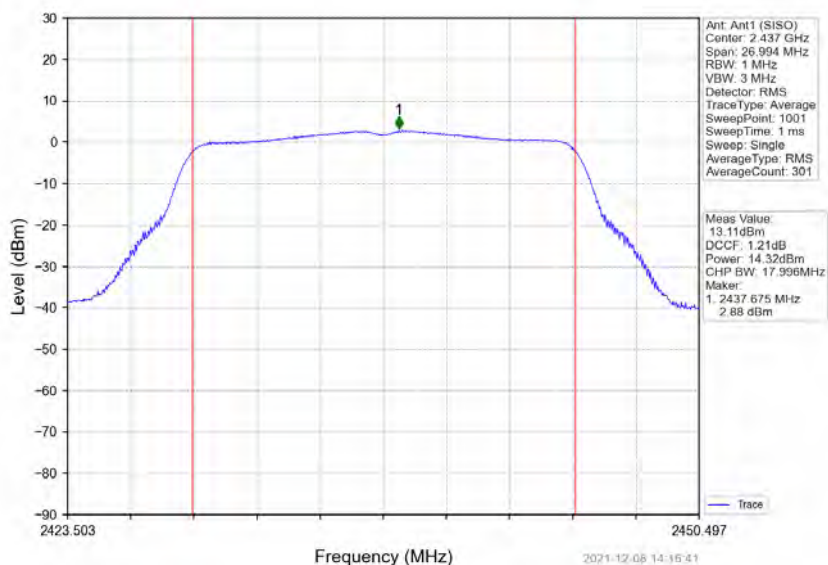
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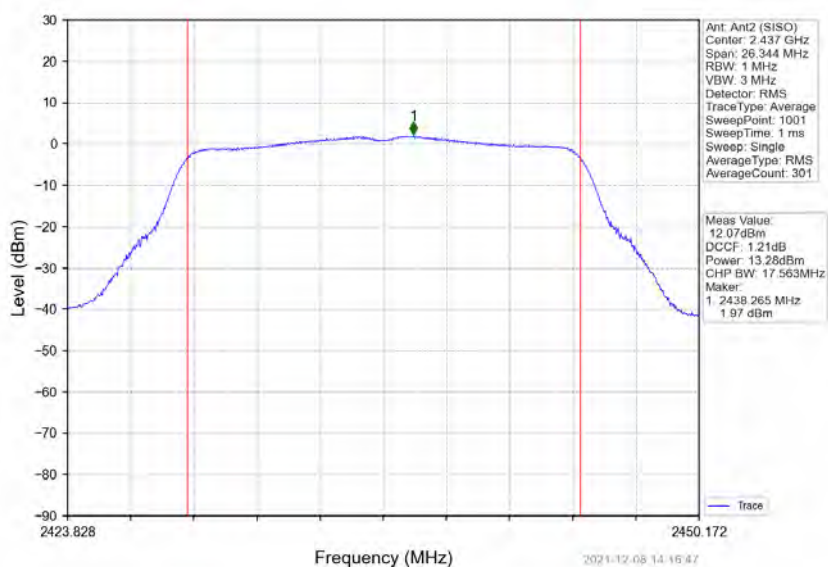
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g MCH 2437MHz Ant2 (SISO) NTN



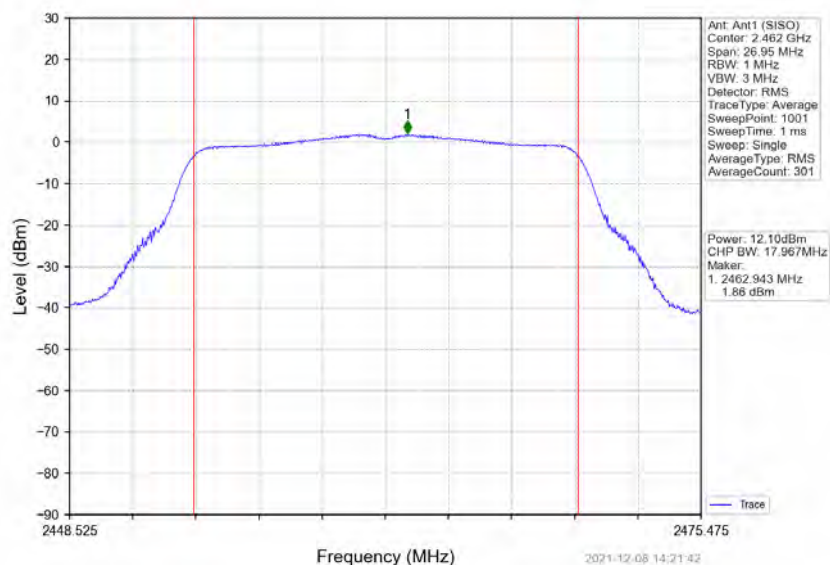
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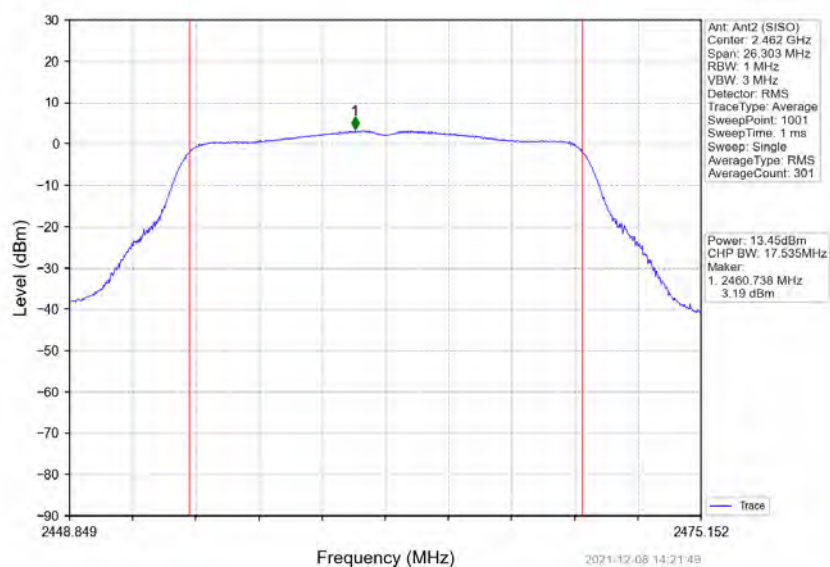
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802.11g HCH 2462MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant2 (SISO) NTN



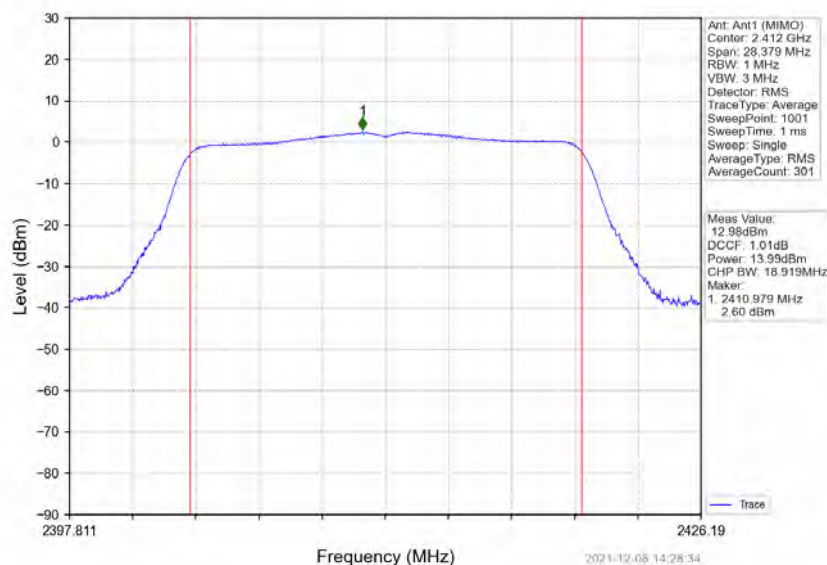
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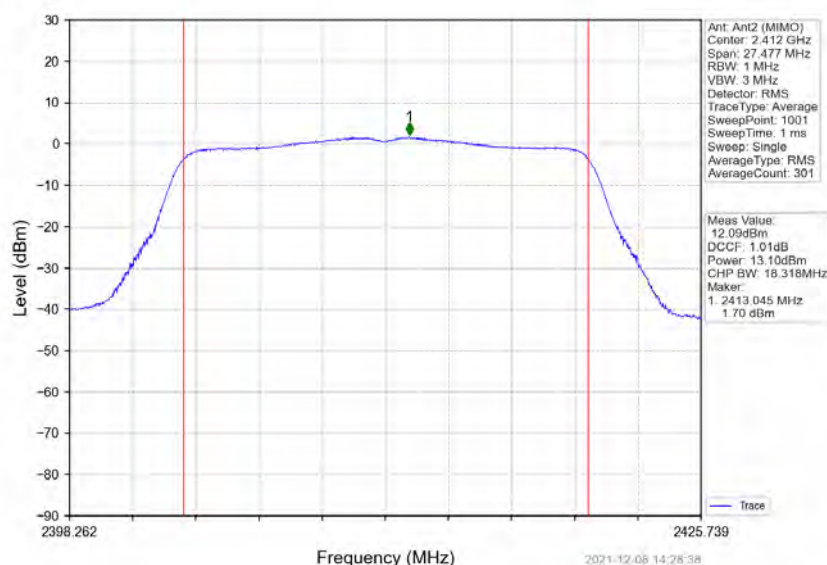
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



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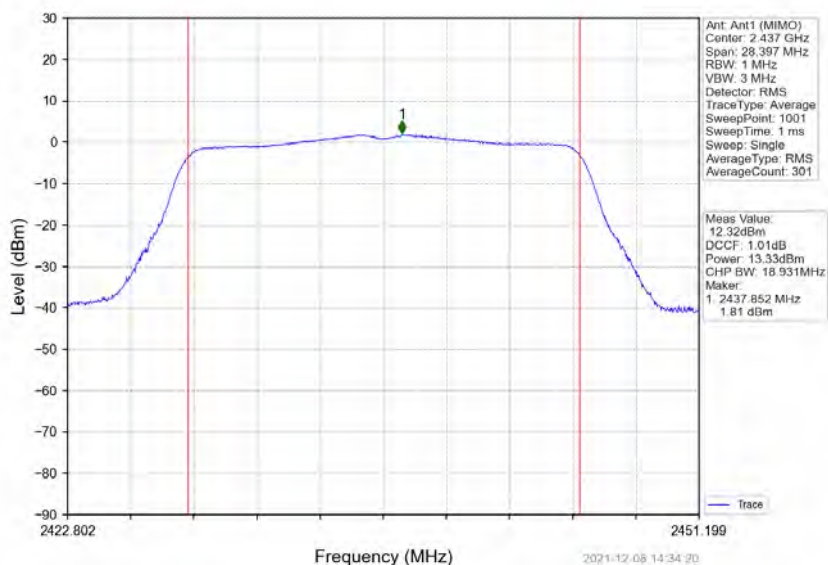
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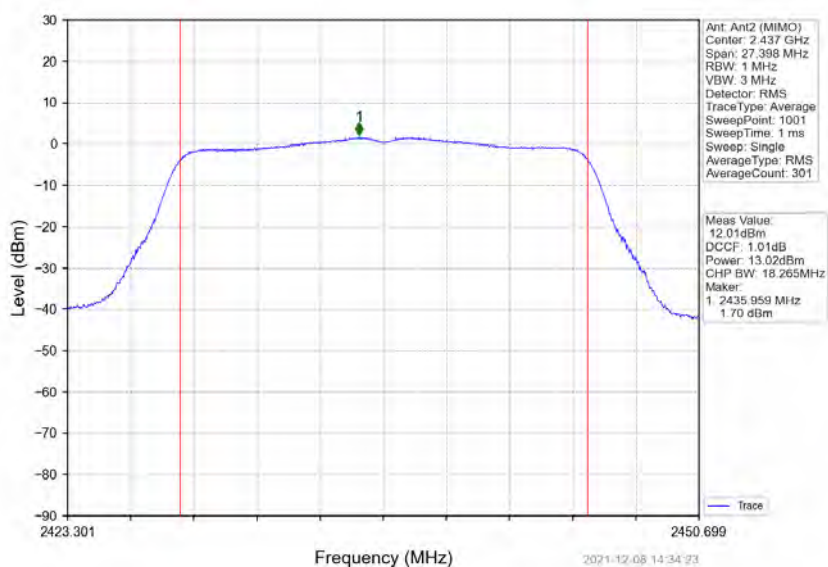
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



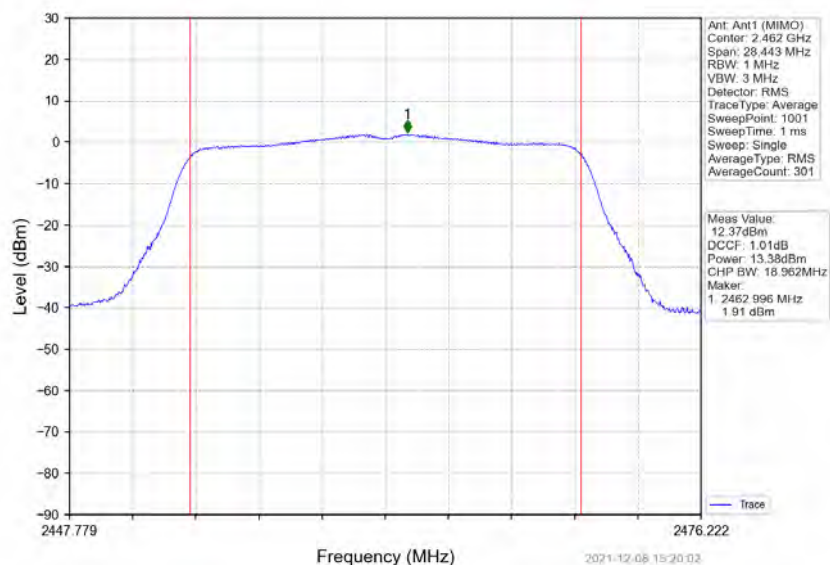
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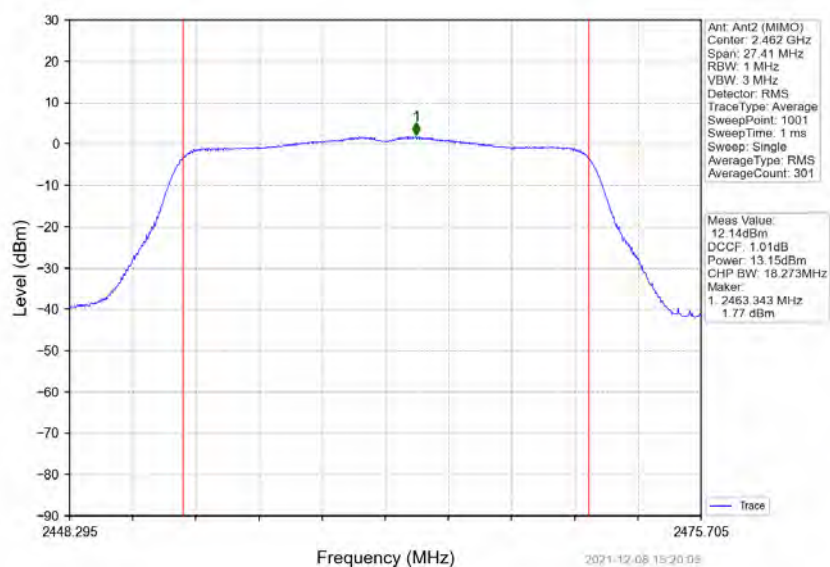
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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



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4. Maximum Power Spectral Density

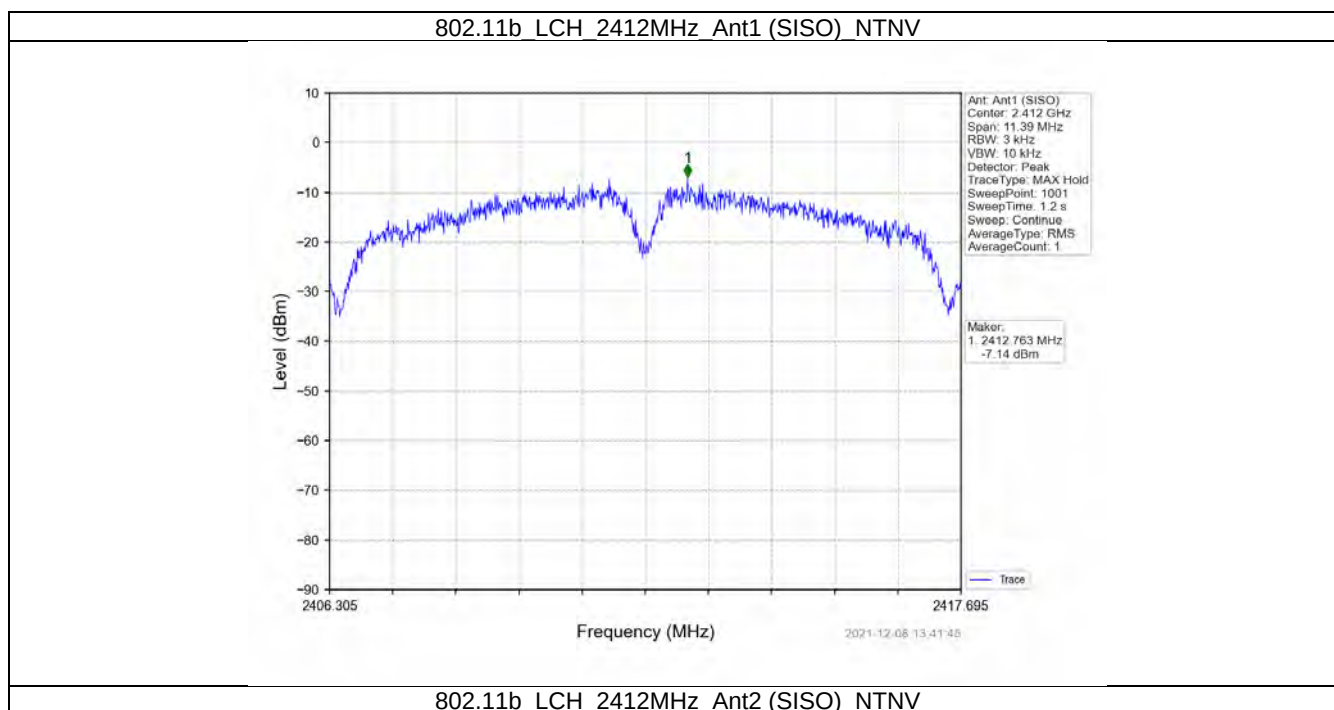
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-7.14	-8.94	/	<=8	Pass
		2437	-8.05	-8.57	/	<=8	Pass
		2462	-5.05	-8.24	/	<=8	Pass
802.11g	SISO	2412	-9.71	-11.79	/	<=8	Pass
		2437	-10.55	-11.22	/	<=8	Pass
		2462	-10.29	-10.93	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-10.53	-11.36	-8.89	<=8	Pass
		2437	-10.01	-11.92	-8.57	<=8	Pass
		2462	-10.80	-11.87	-8.81	<=8	Pass

Note1: Antenna Gain: Ant1: 1.68dBi; Ant2: 3.42dBi;

4.1.2 Test Graph



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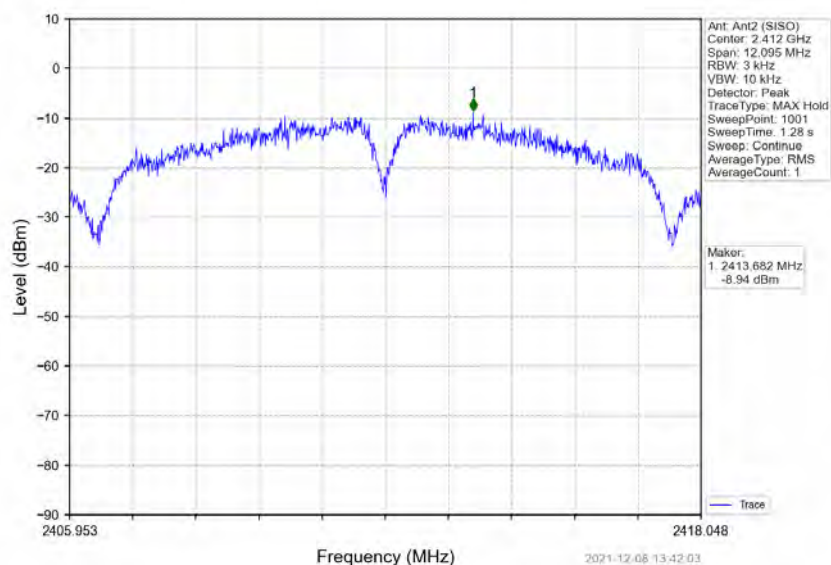
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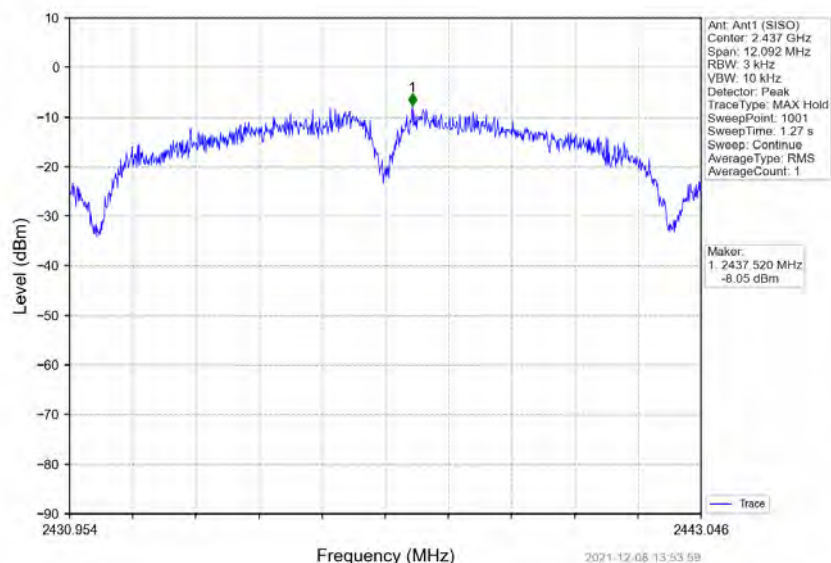
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802.11b MCH 2437MHz Ant1 (SISO) NTVV



802.11b MCH 2437MHz Ant2 (SISO) NTVV



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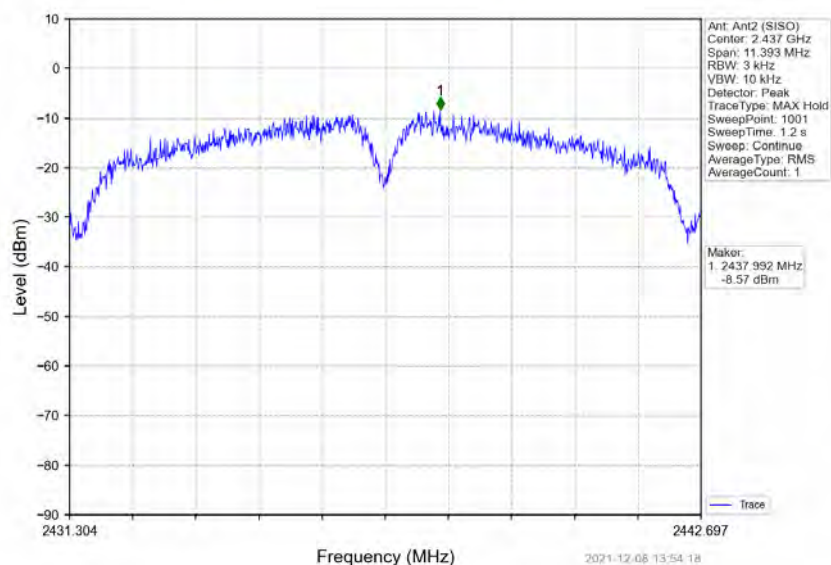
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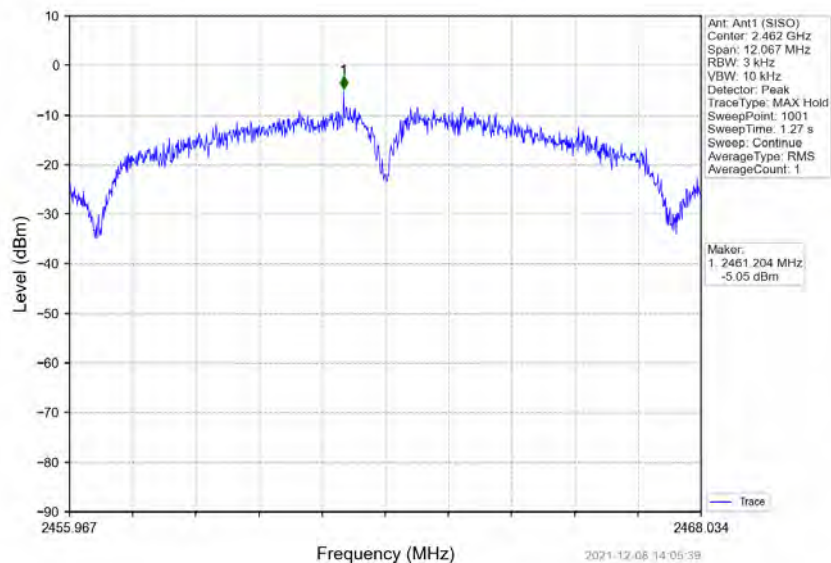
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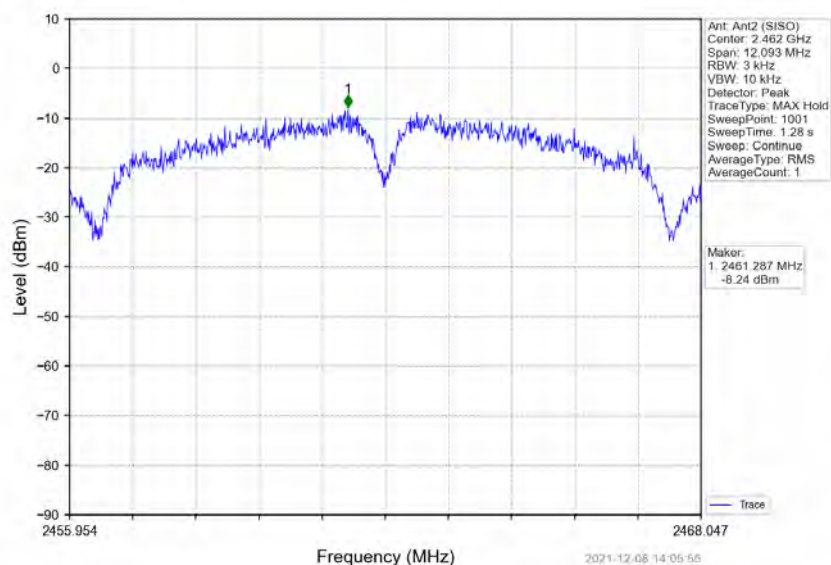
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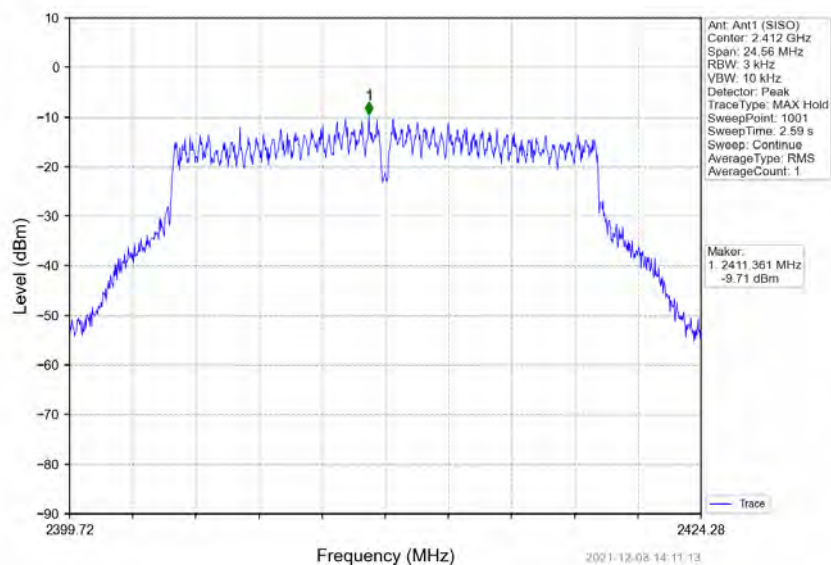
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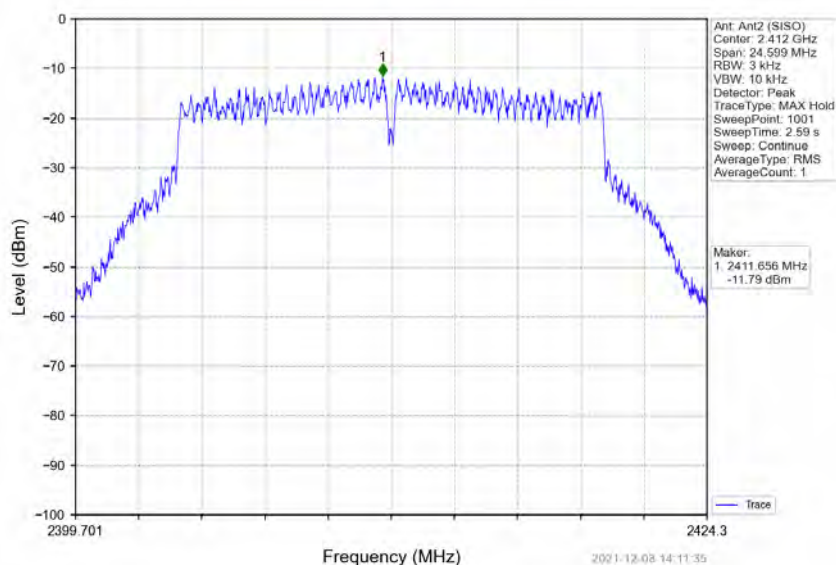
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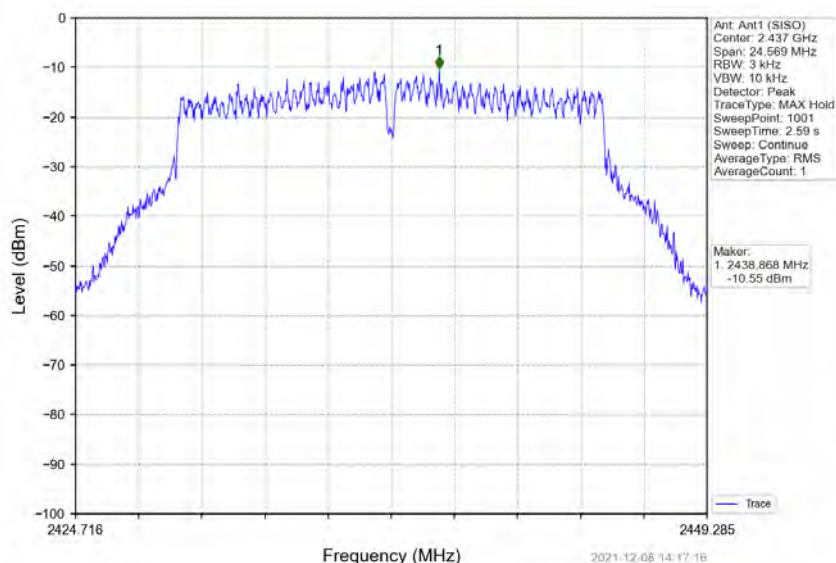
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802.11g MCH 2437MHz Ant1 (SISO) NTV



802.11g MCH 2437MHz Ant2 (SISO) NTV



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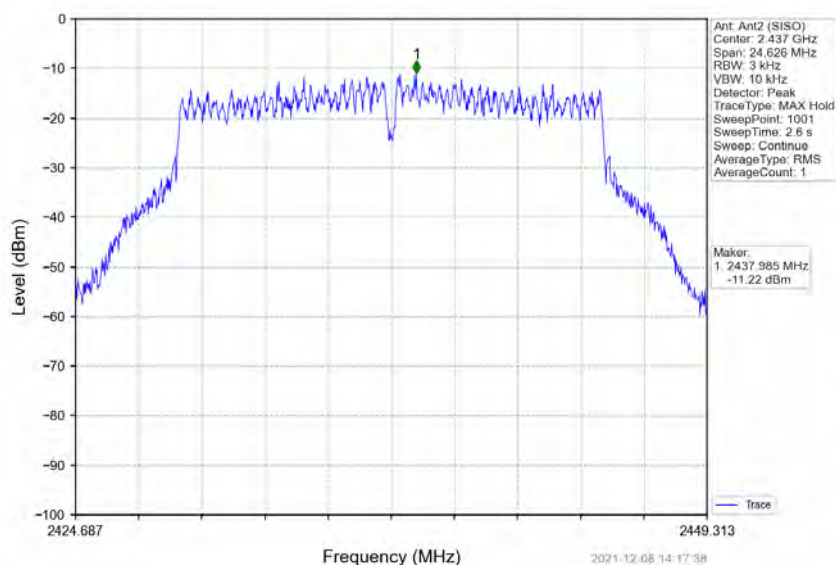
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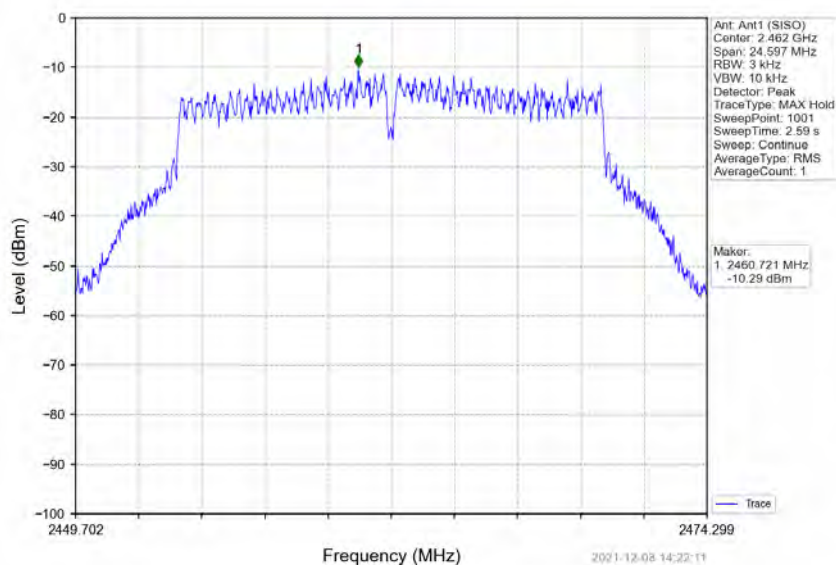
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802.11g HCH 2462MHz Ant1 (SISO) NTNV



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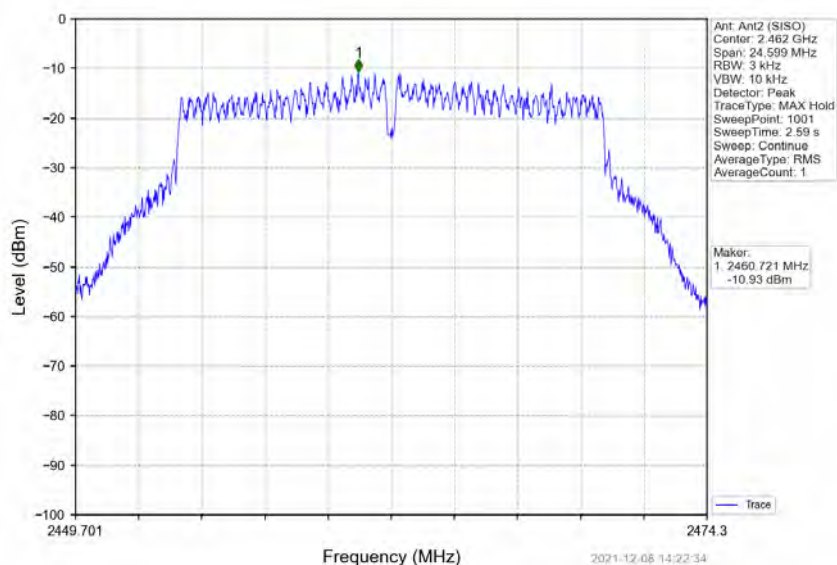
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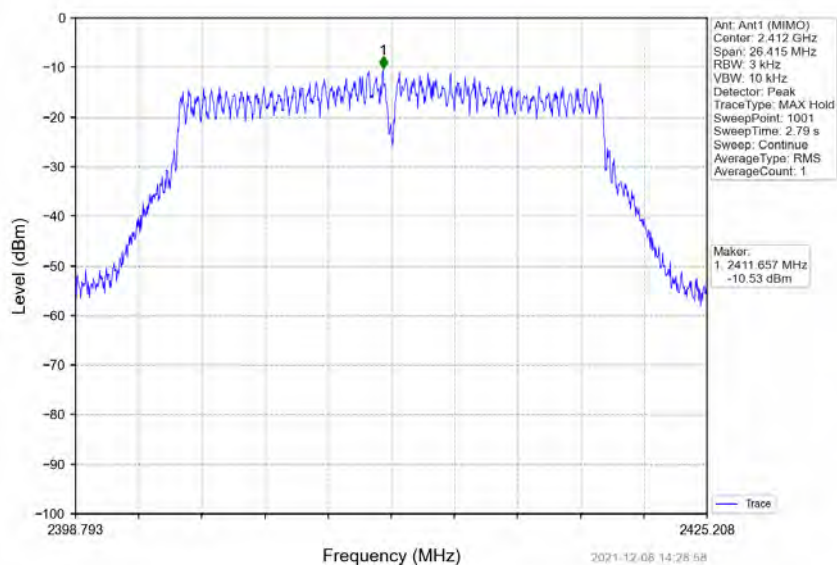
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802.11n(HT20) LCH 2412MHz_Ant1 (MIMO) NTN



802.11n(HT20) LCH 2412MHz_Ant2 (MIMO) NTN



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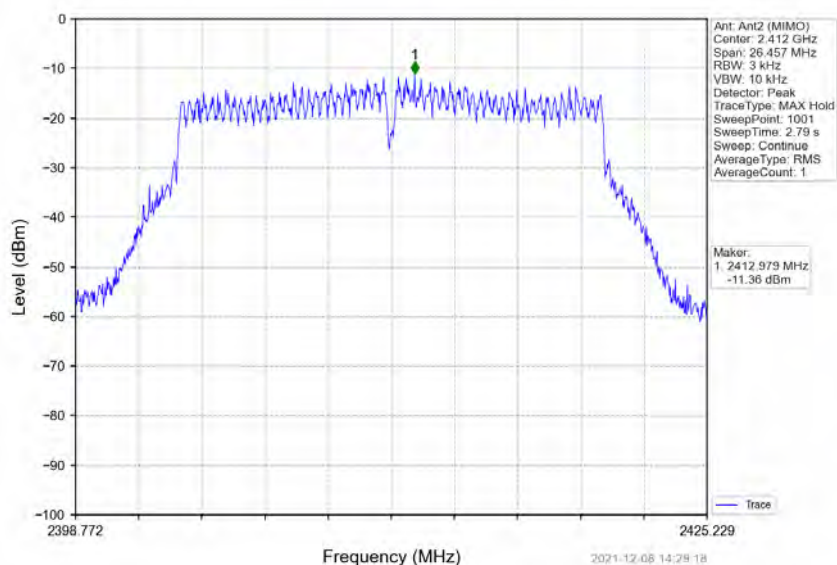
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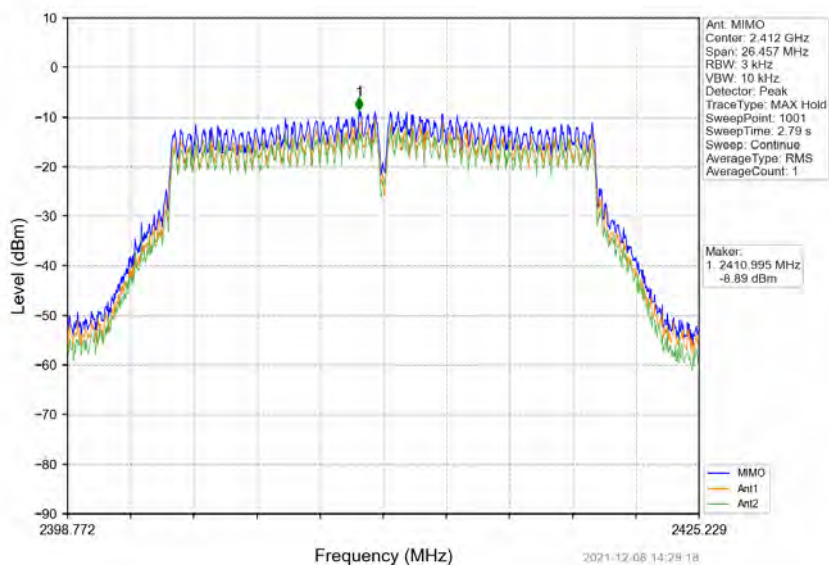
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802.11n(HT20) LCH_2412MHz_MIMO_NTNV



802.11n(HT20) MCH_2437MHz_Ant1(MIMO)_NTNV



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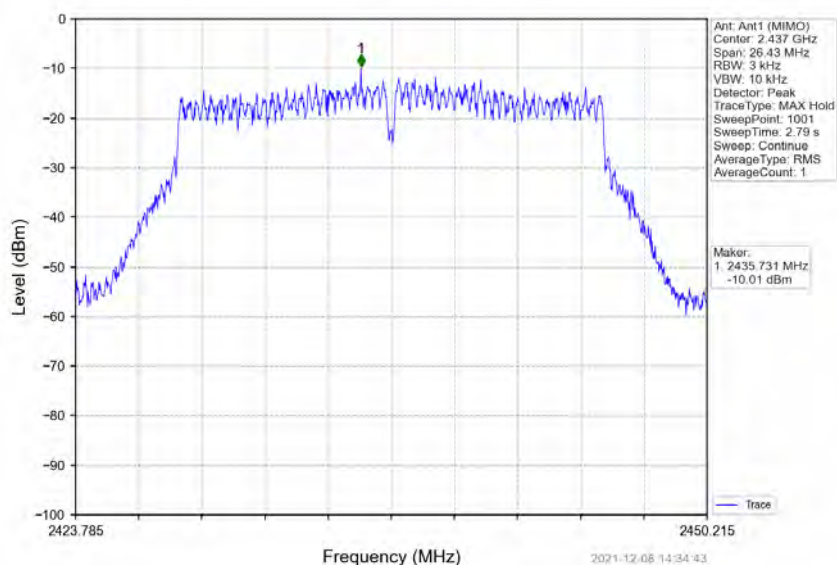
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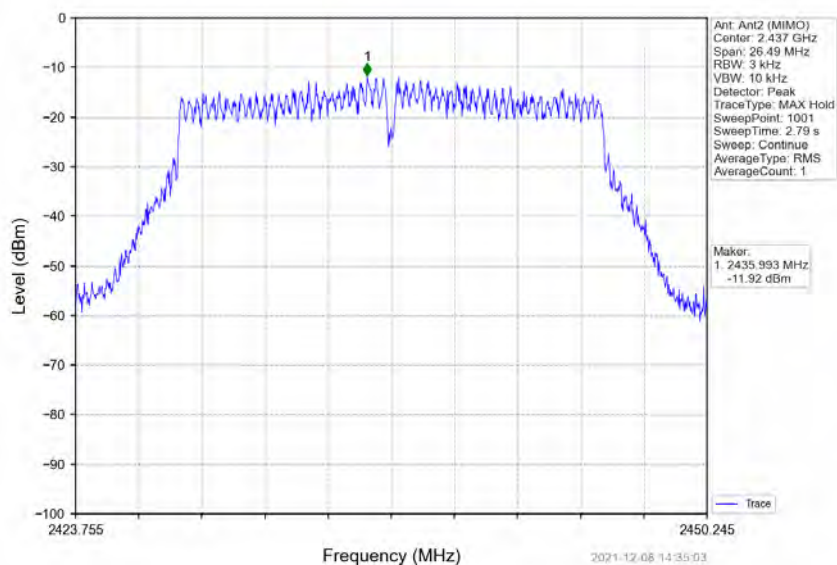
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802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



802.11n(HT20) MCH_2437MHz MIMO NTN



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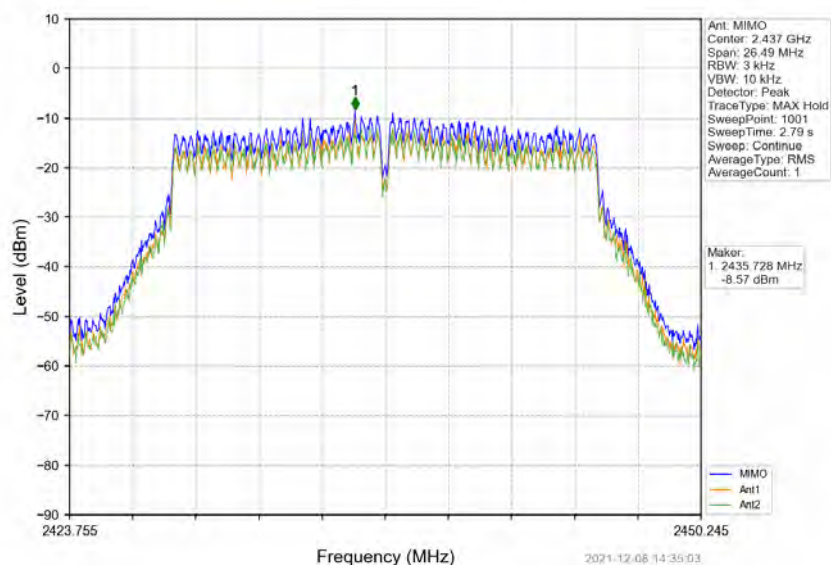
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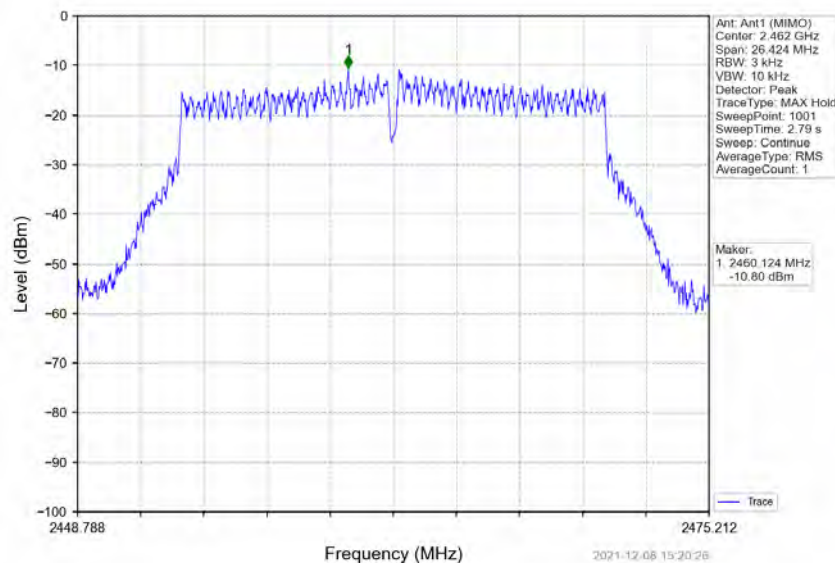
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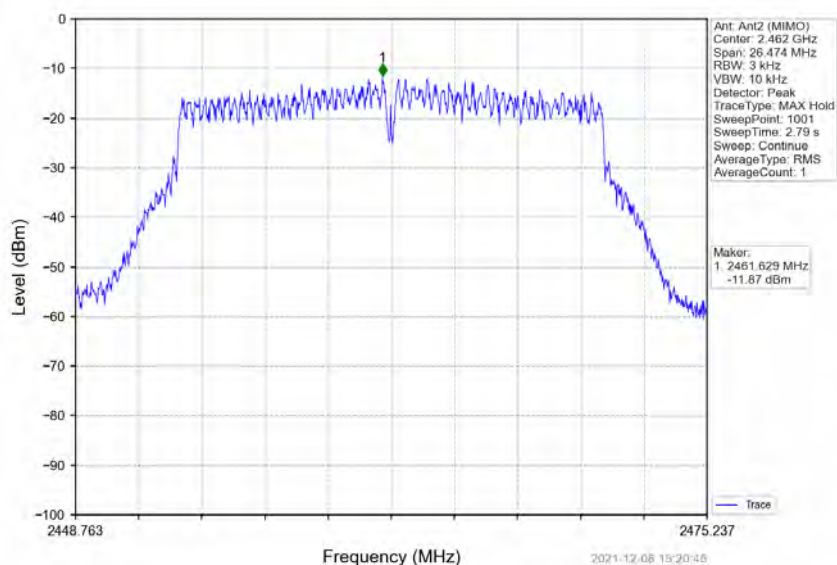


802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN

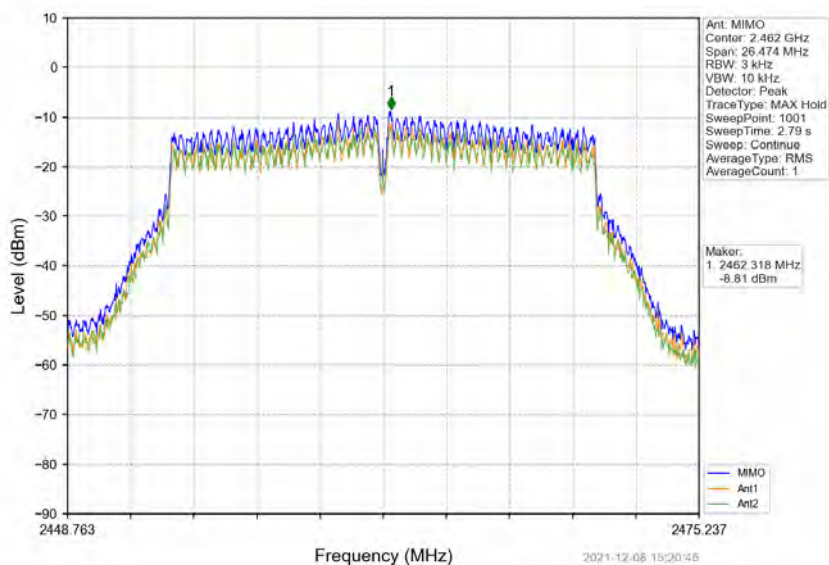


802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN





802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

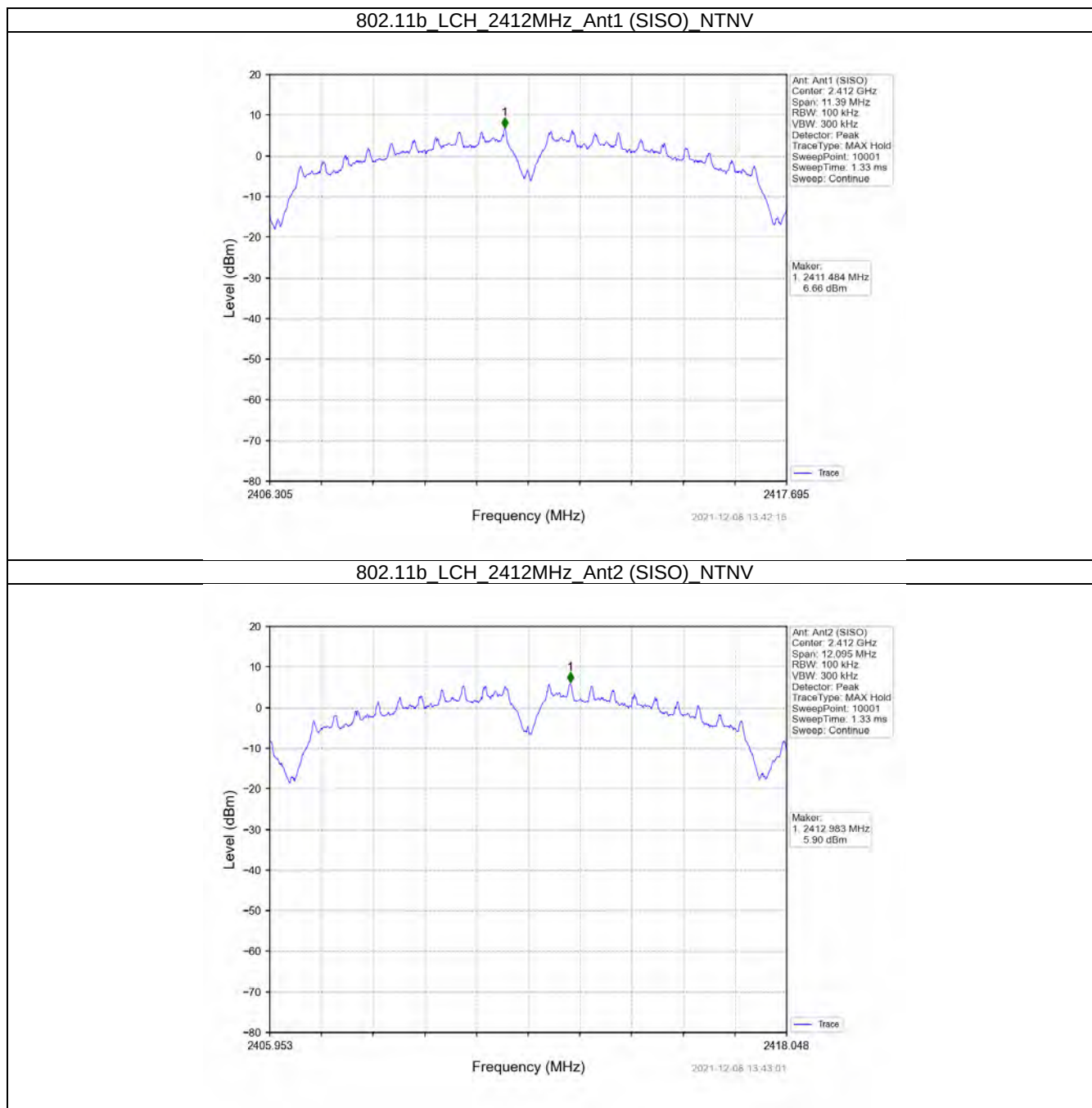
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.66
			2	5.90
		2437	1	6.52
			2	6.00
		2462	1	6.24
			2	5.48
802.11g	SISO	2412	1	2.40
			2	1.46
		2437	1	1.46
			2	1.34
		2462	1	1.86
			2	1.67
802.11n (HT20)	MIMO	2412	1	1.96
			2	1.08
		2437	1	1.25
			2	0.97
		2462	1	1.63
			2	1.19

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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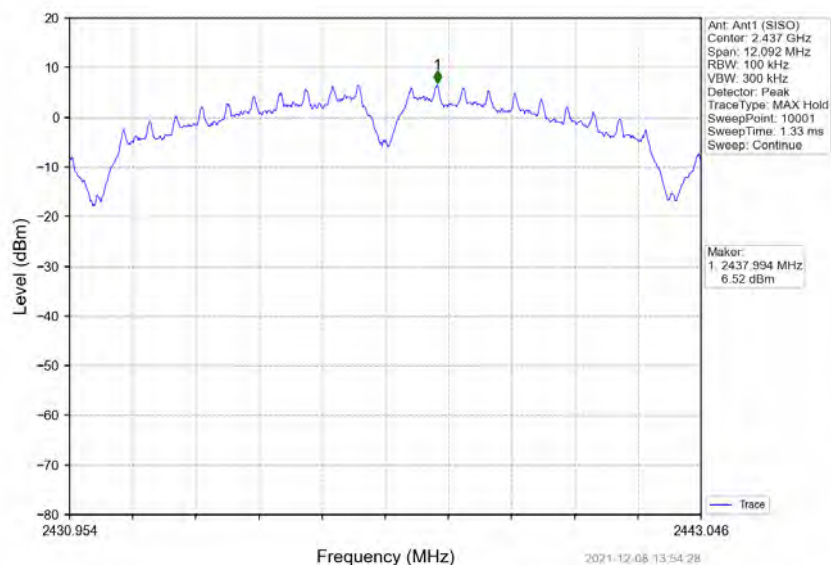
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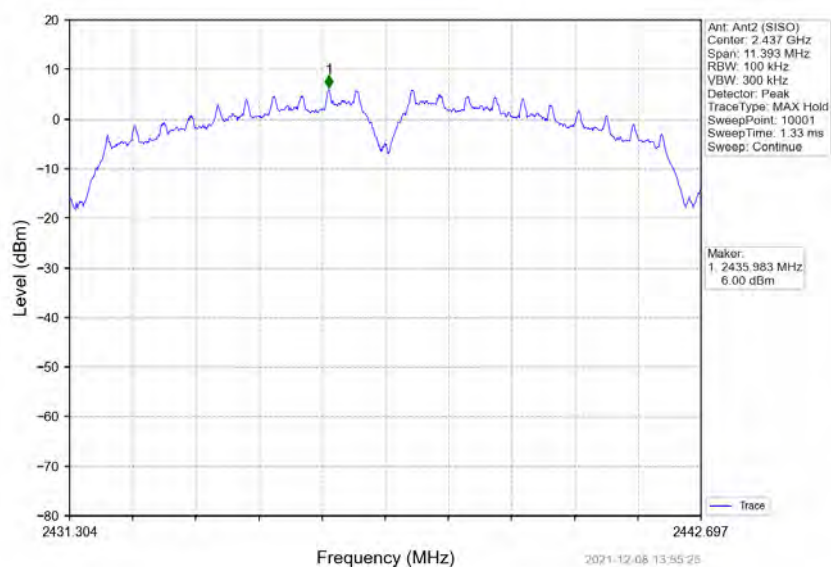
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



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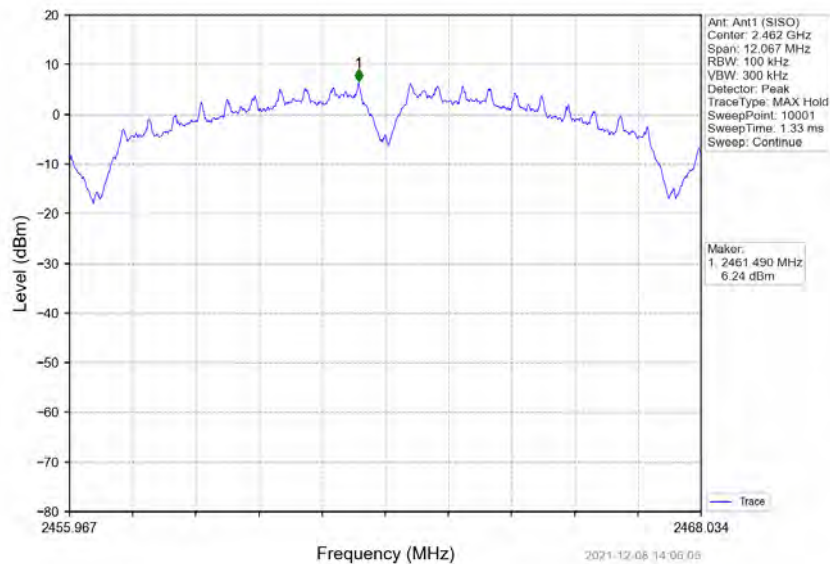
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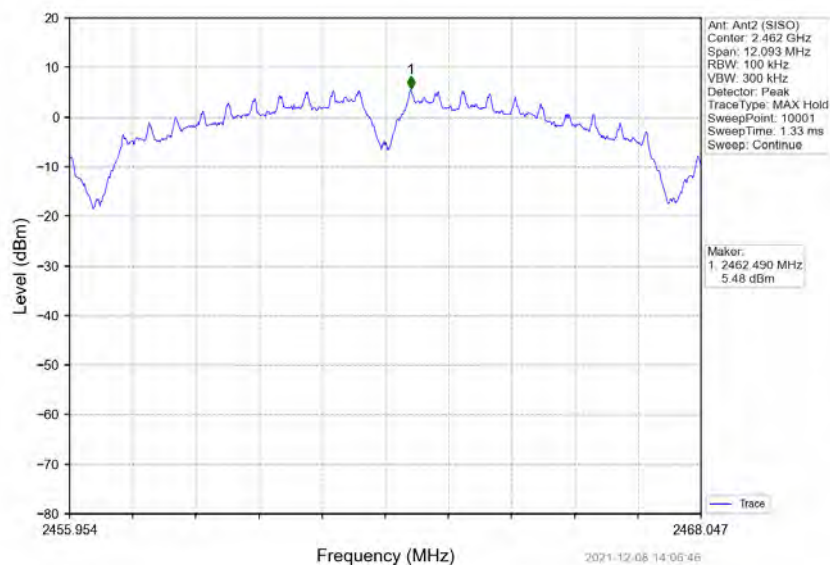
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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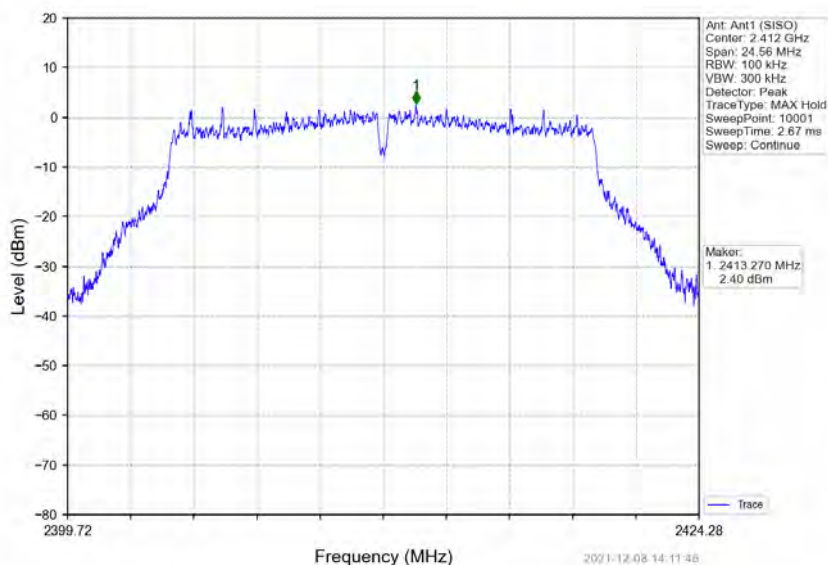
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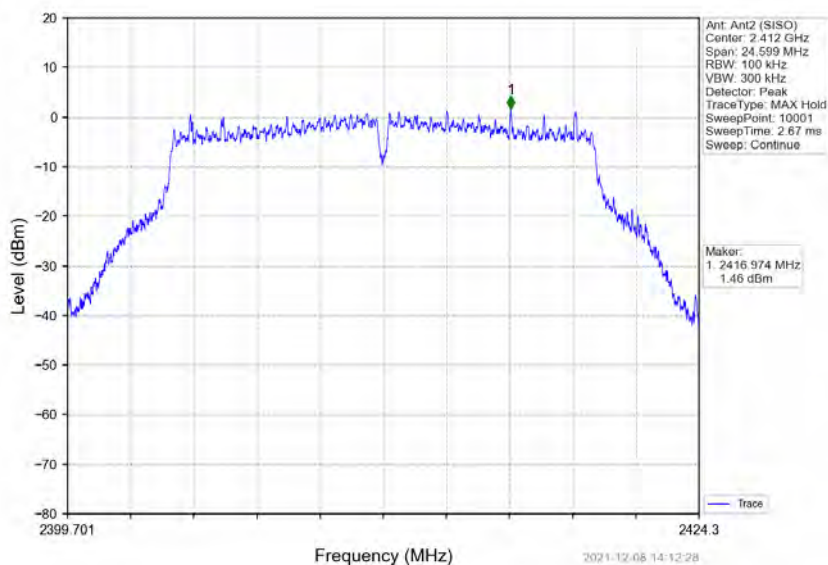
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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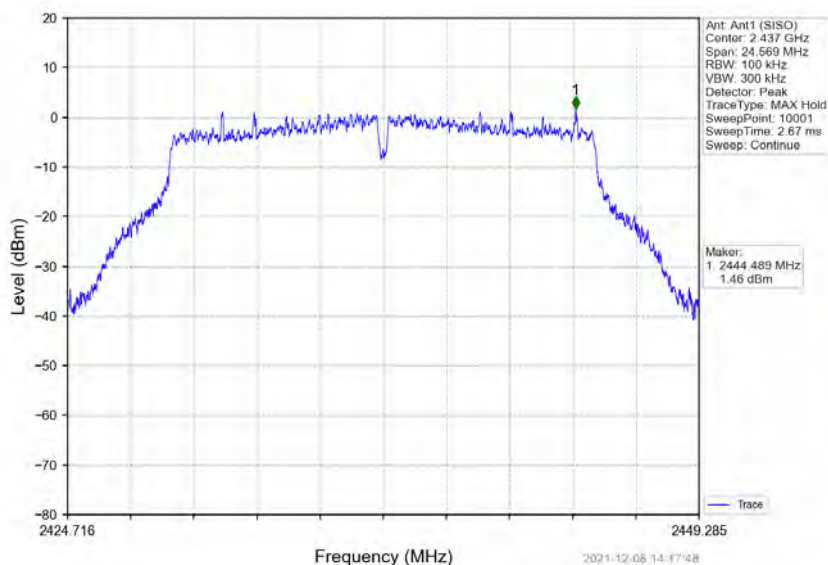
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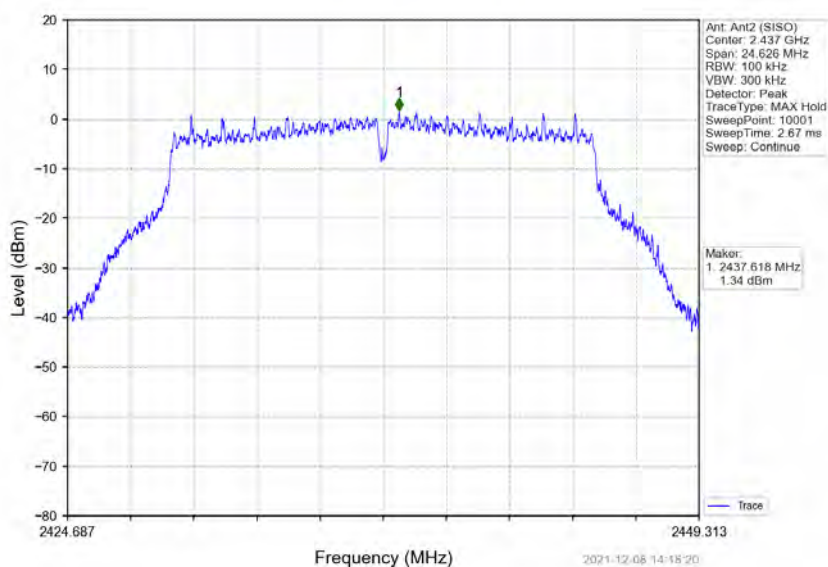
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g MCH 2437MHz Ant2 (SISO) NTN



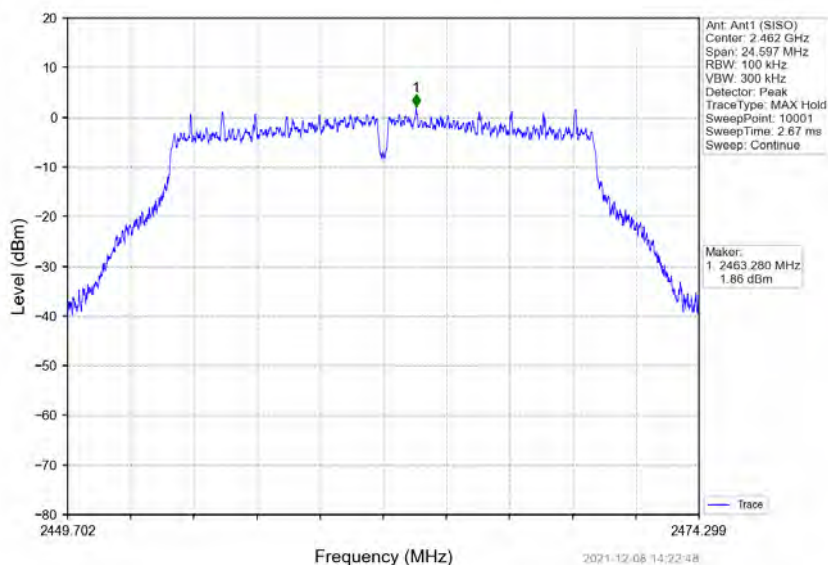
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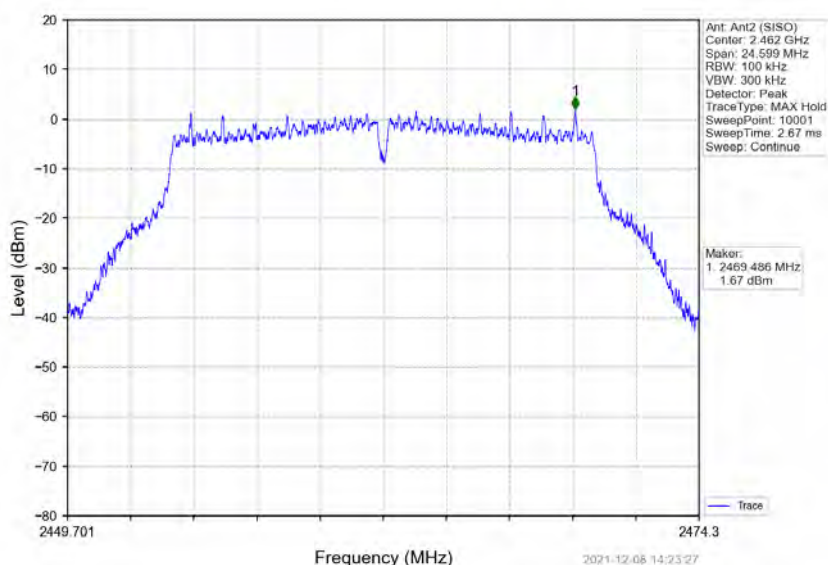
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802.11g HCH 2462MHz Ant2 (SISO) NTN



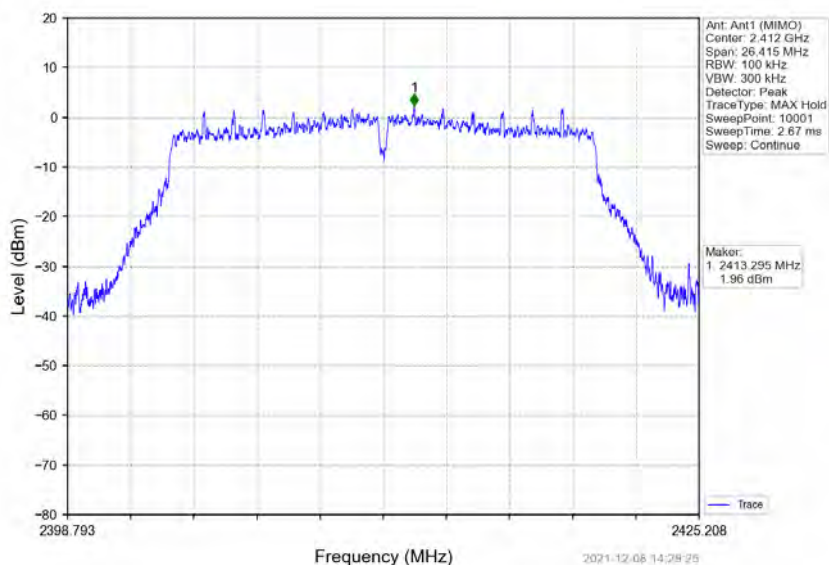
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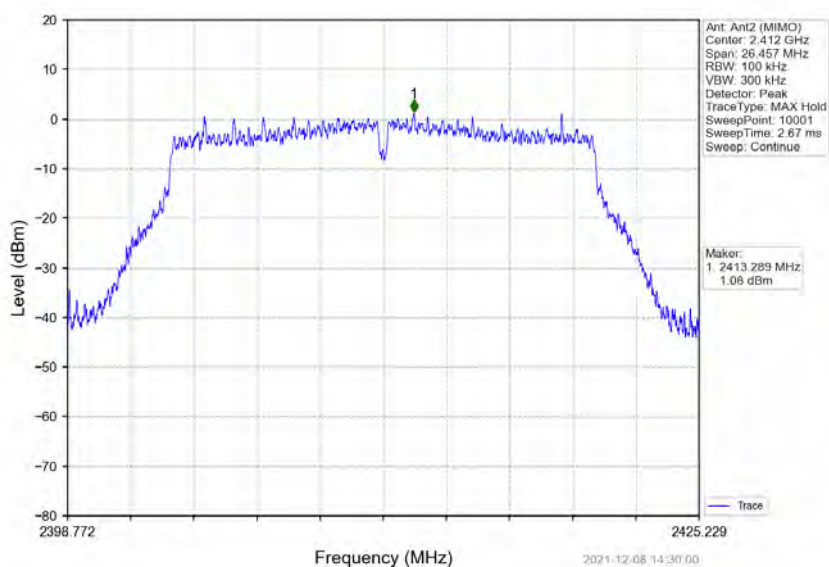
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



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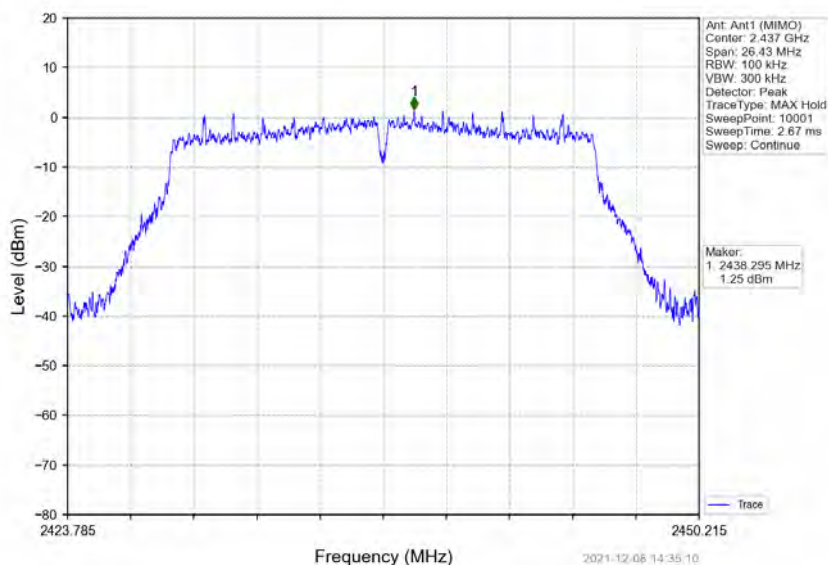
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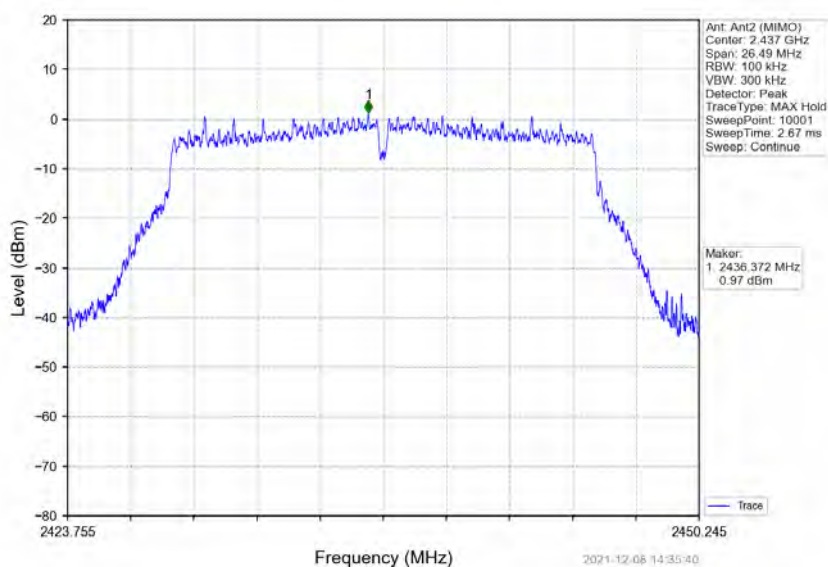
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTV



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



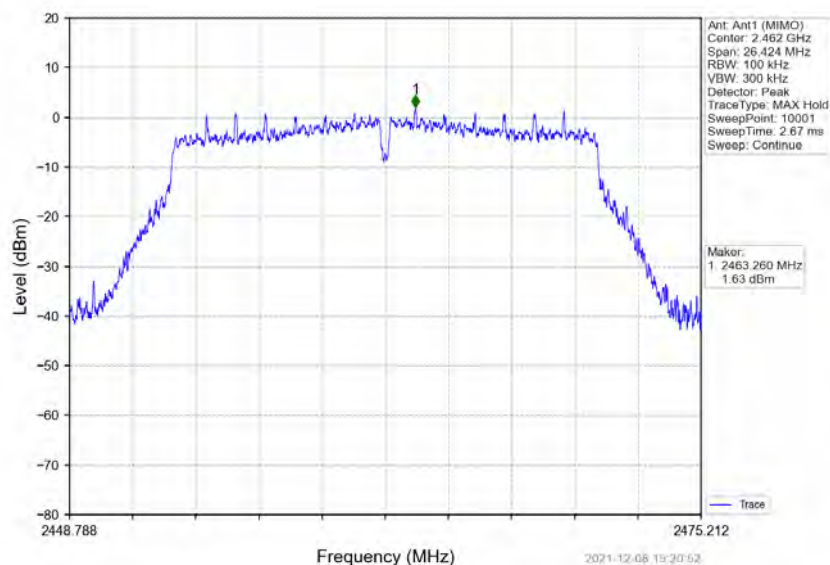
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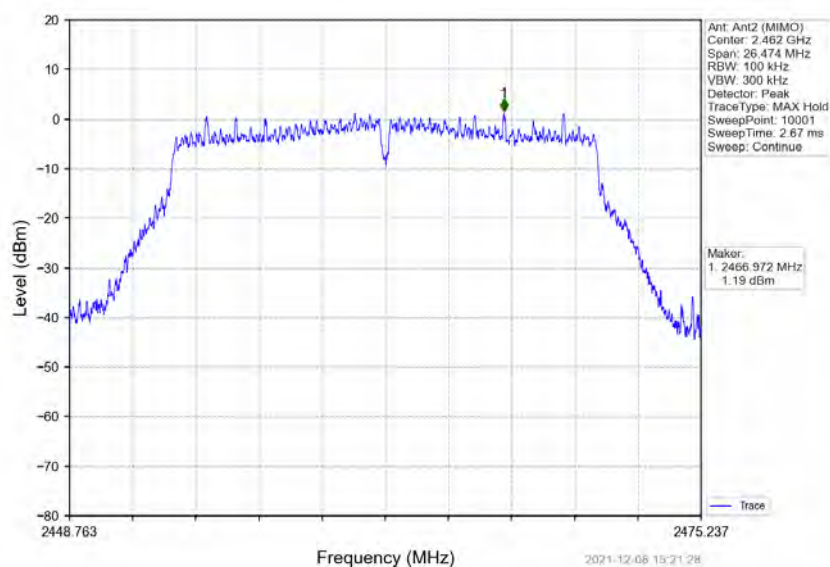
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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



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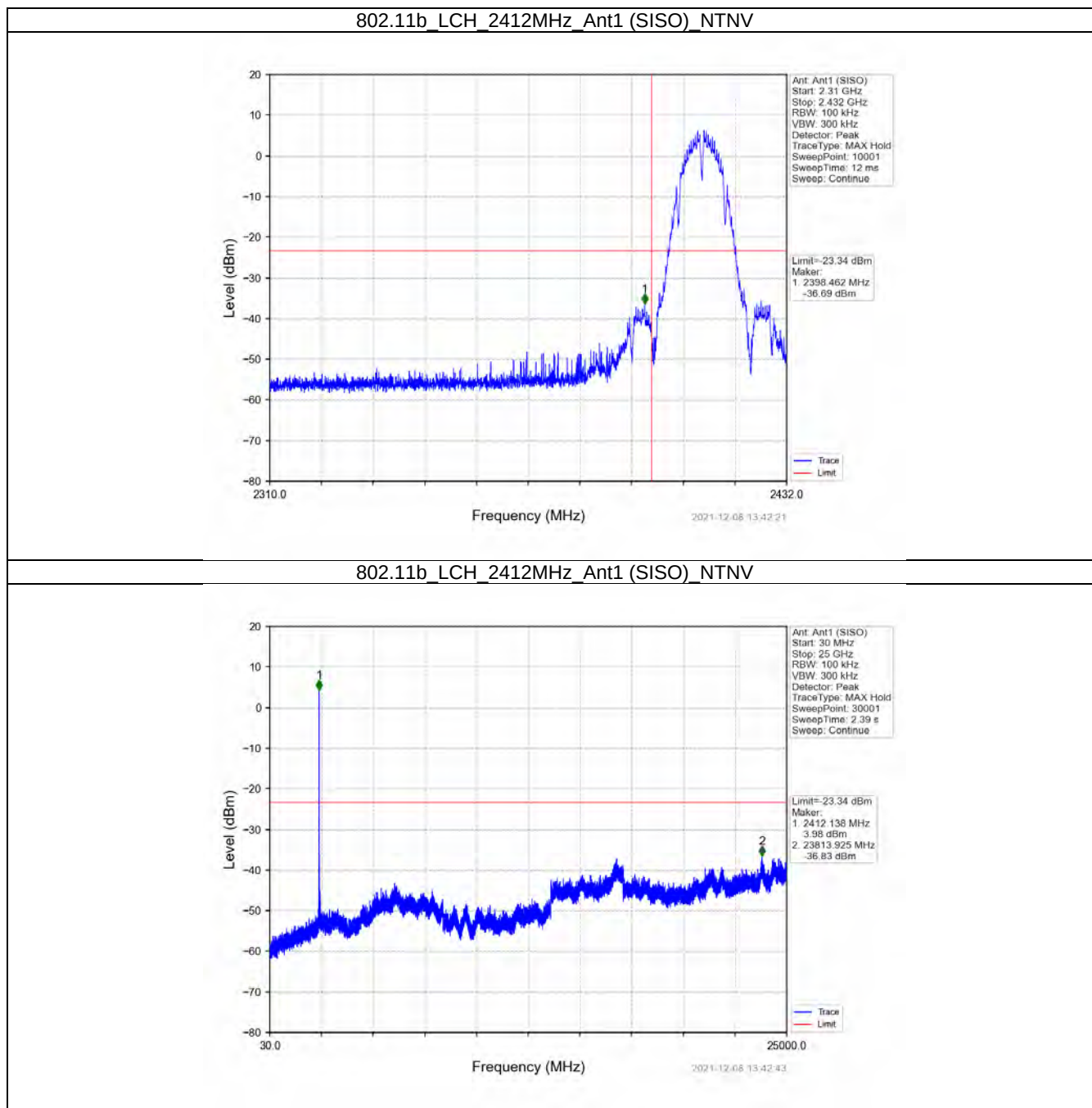
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	6.66	-23.34	Pass
			2	6.00	-24.00	Pass
		2437	1	6.66	-23.34	Pass
			2	6.00	-24.00	Pass
		2462	1	6.66	-23.34	Pass
			2	6.00	-24.00	Pass
802.11g	SISO	2412	1	2.40	-27.60	Pass
			2	1.67	-28.33	Pass
		2437	1	2.40	-27.60	Pass
			2	1.67	-28.33	Pass
		2462	1	2.40	-27.60	Pass
			2	1.67	-28.33	Pass
802.11n (HT20)	MIMO	2412	1	1.96	-28.04	Pass
			2	1.19	-28.81	Pass
		2437	1	1.96	-28.04	Pass
			2	1.19	-28.81	Pass
		2462	1	1.96	-28.04	Pass
			2	1.19	-28.81	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.						

5.2.2 Test Graph



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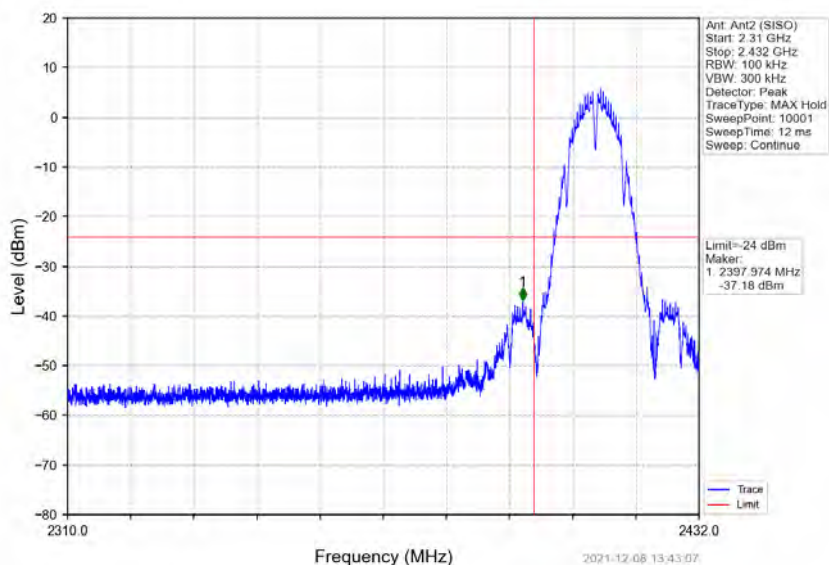
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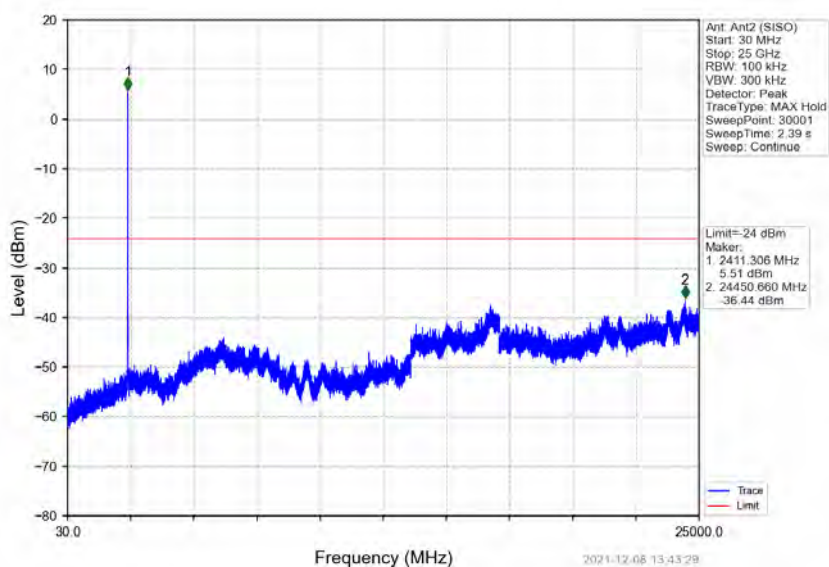
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802.11b LCH 2412MHz Ant2 (SISO) NTNV



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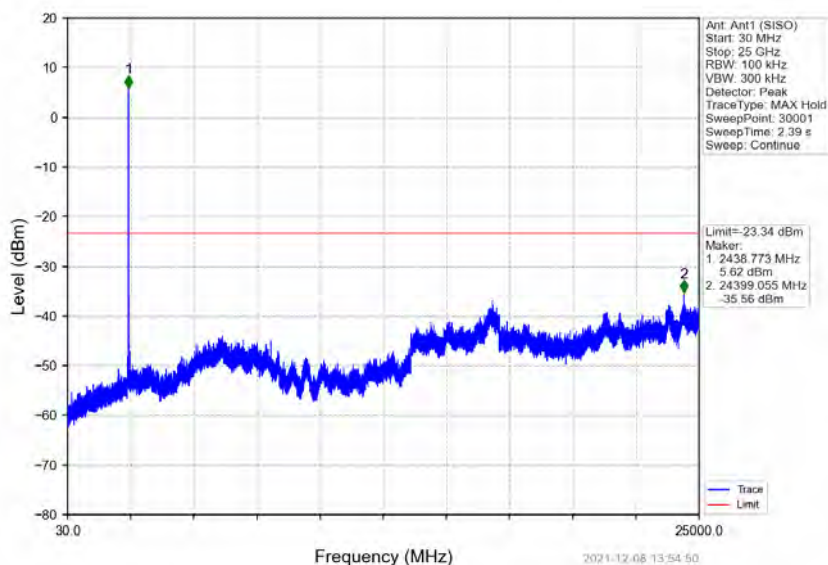
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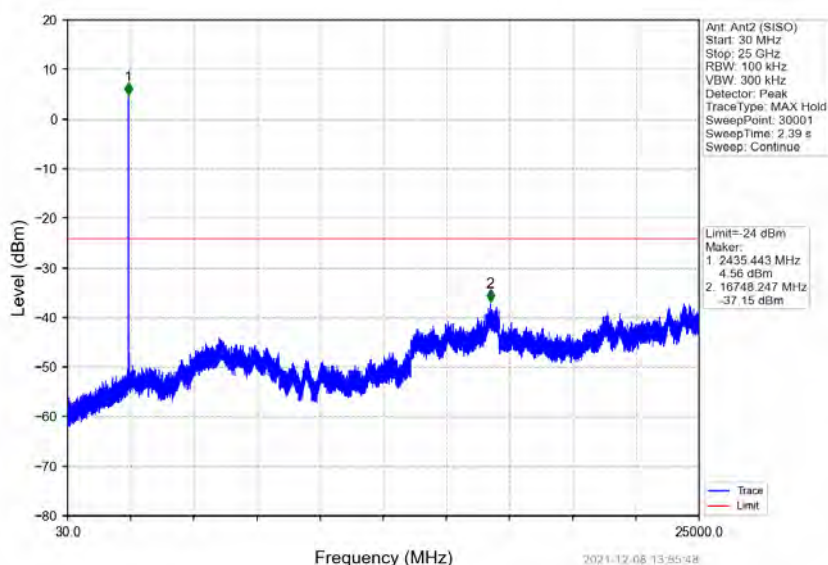
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



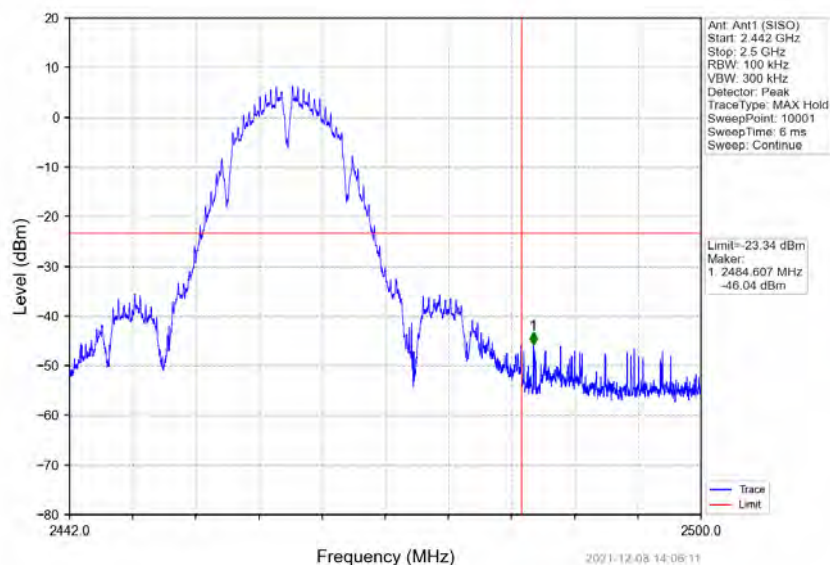
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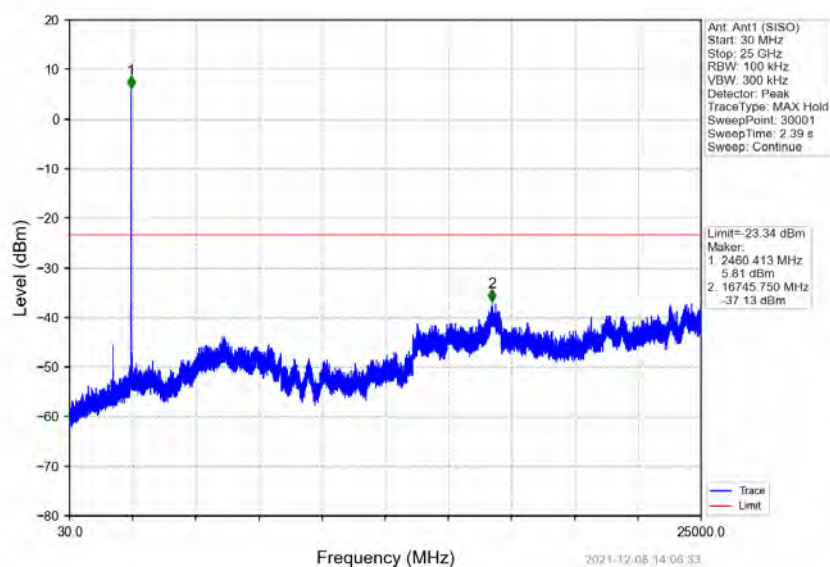
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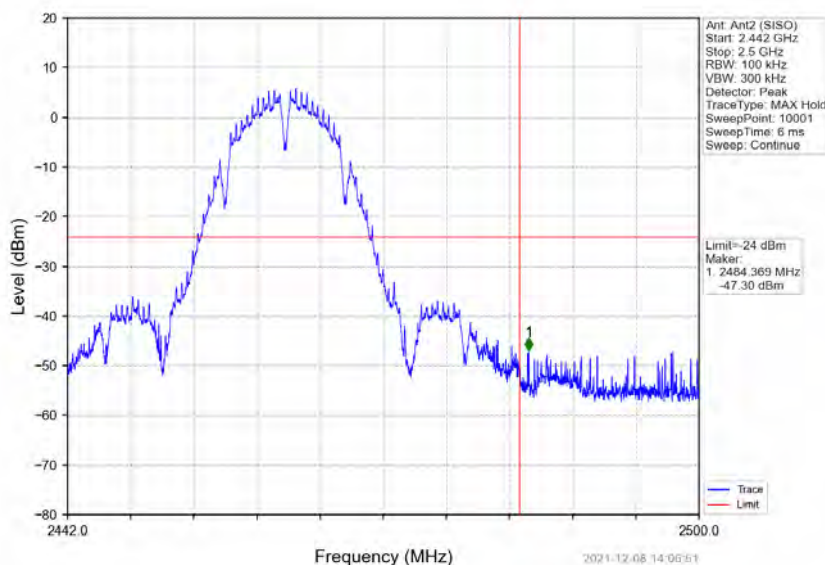
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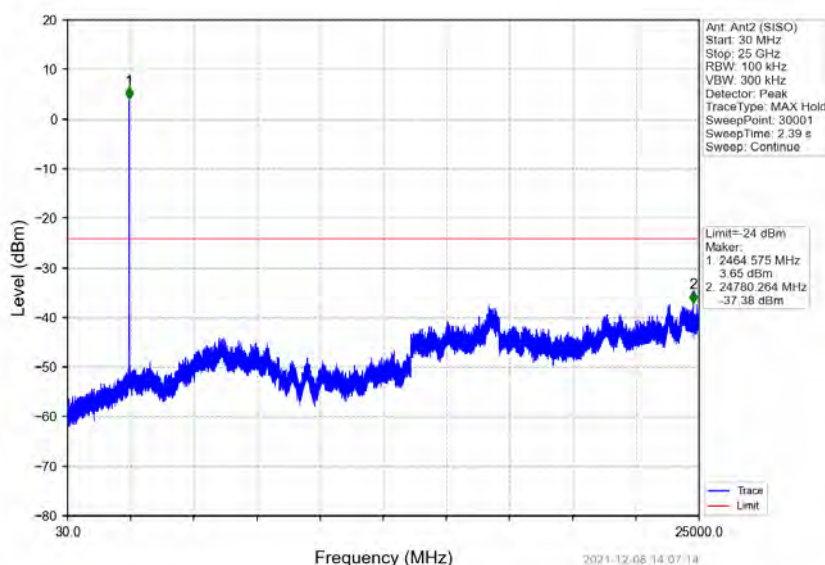
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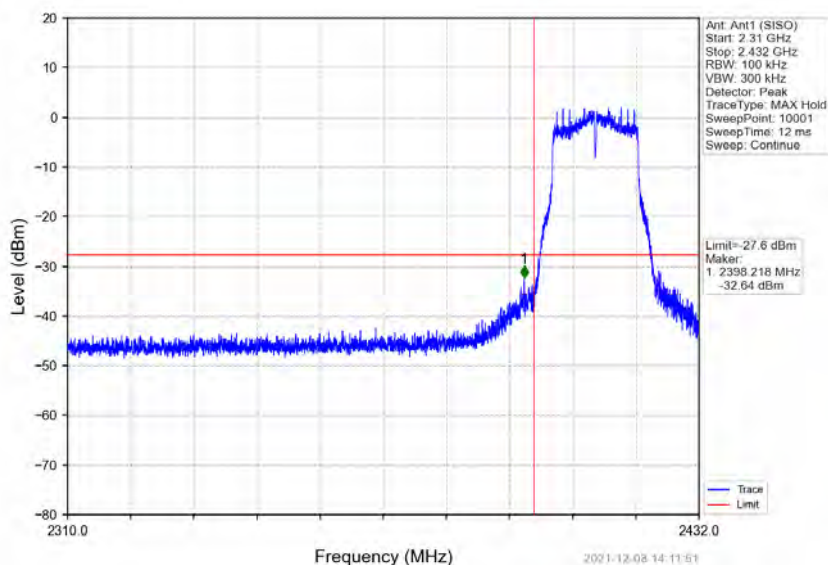
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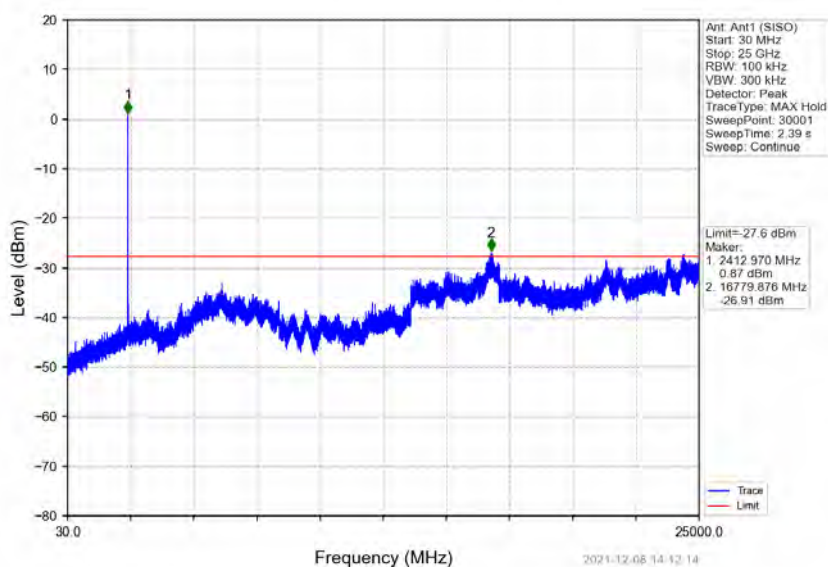
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



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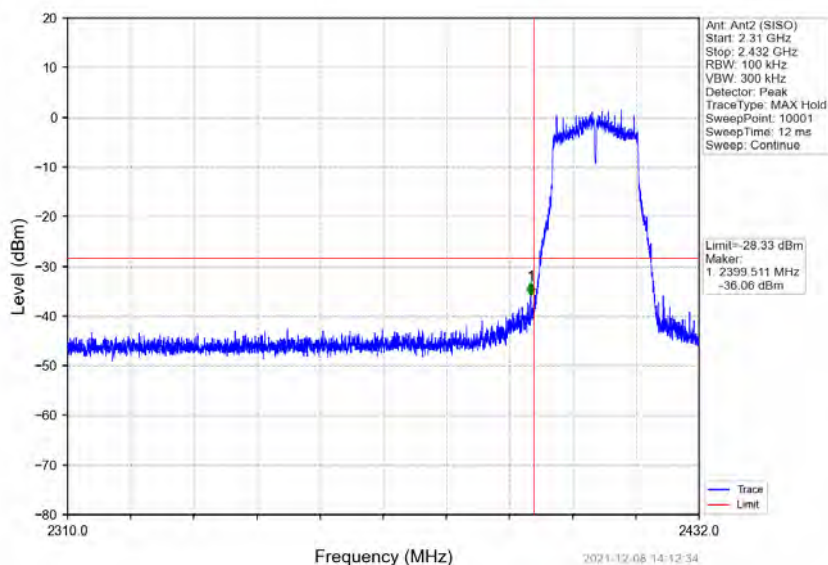
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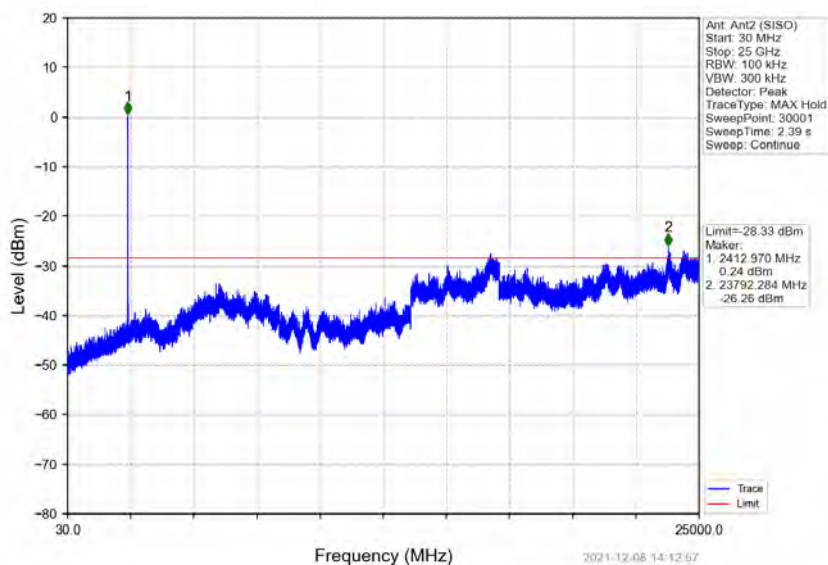
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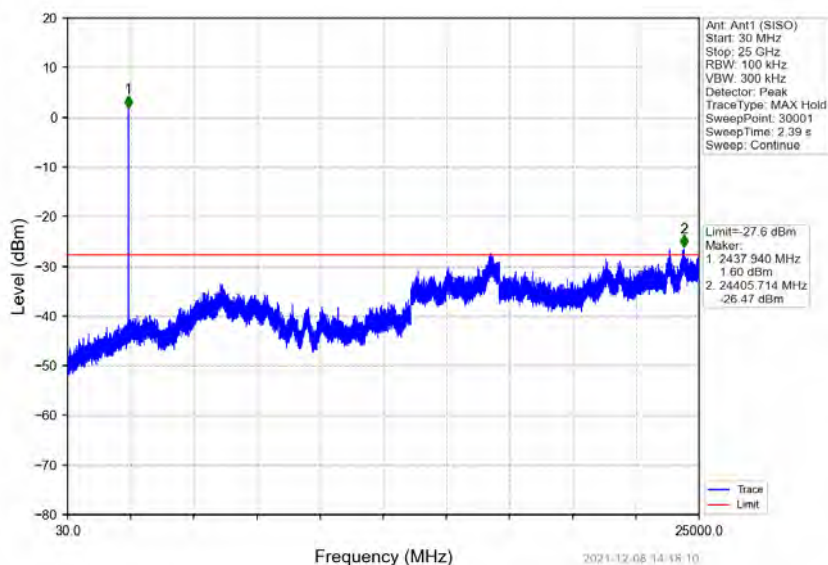
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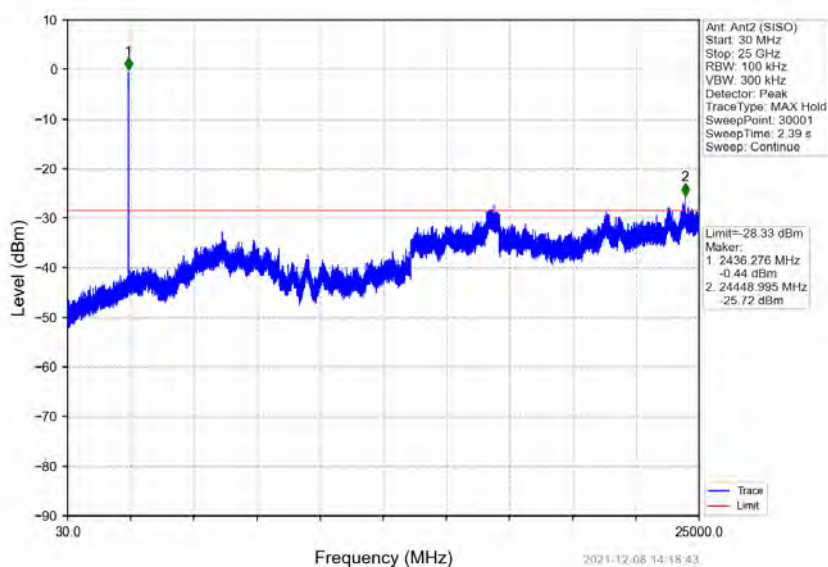
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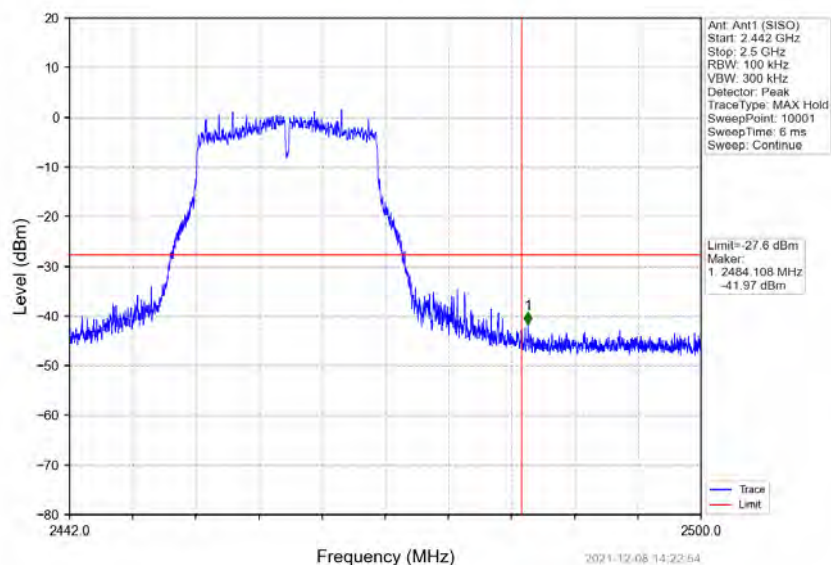
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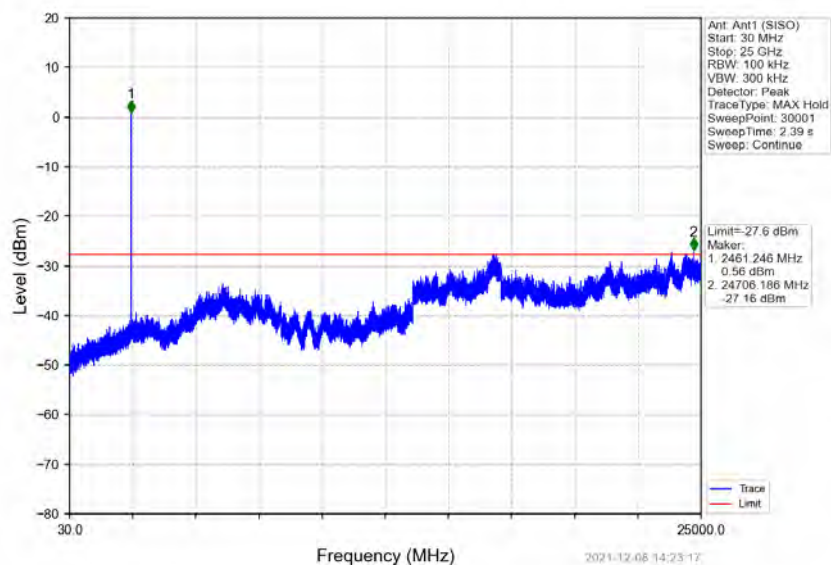
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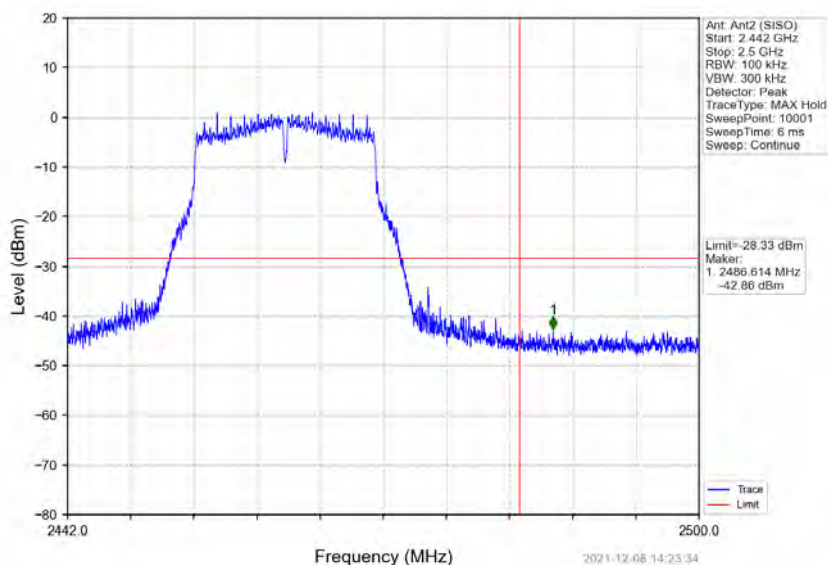
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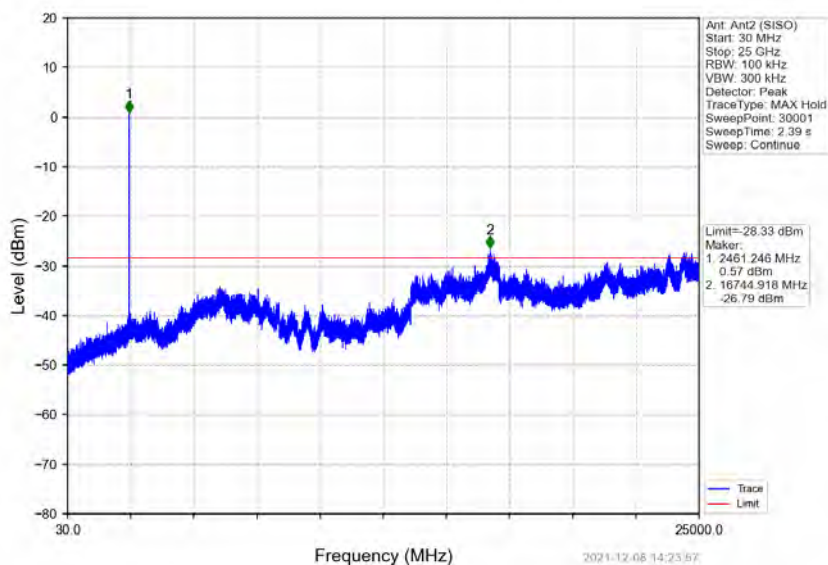
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802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



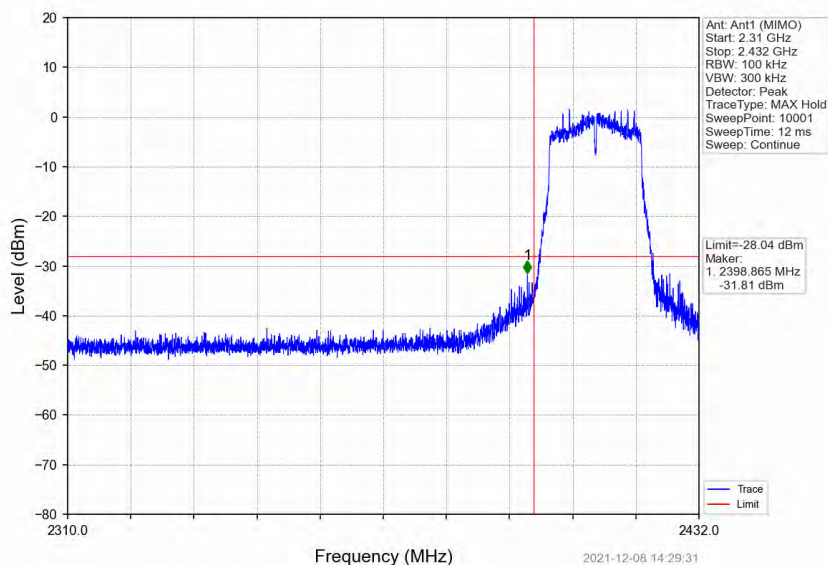
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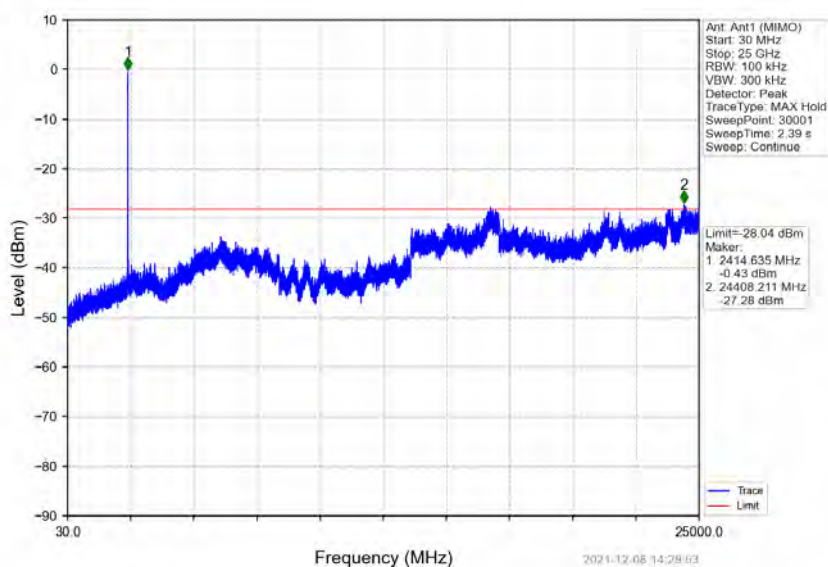
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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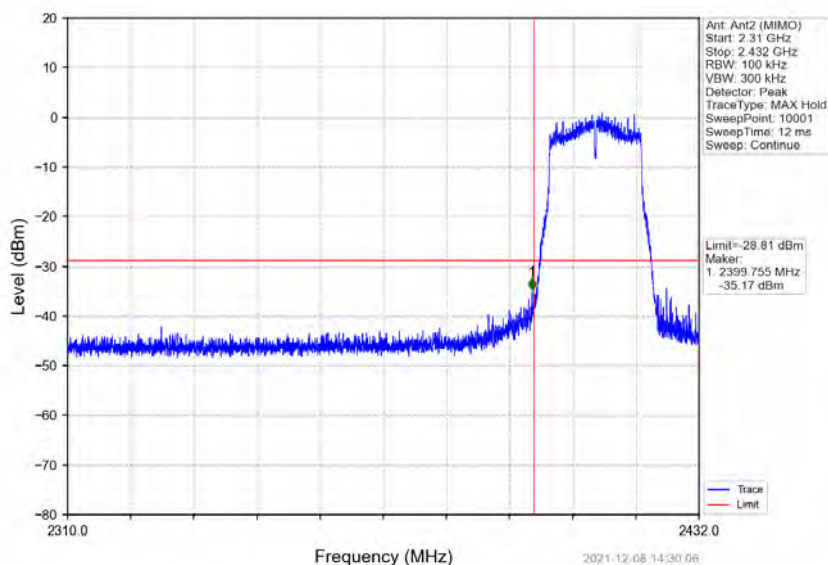
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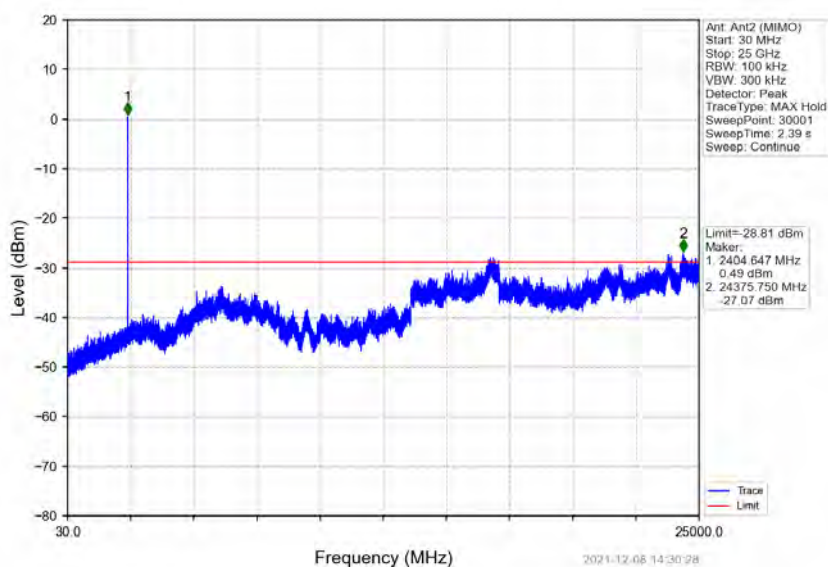
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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



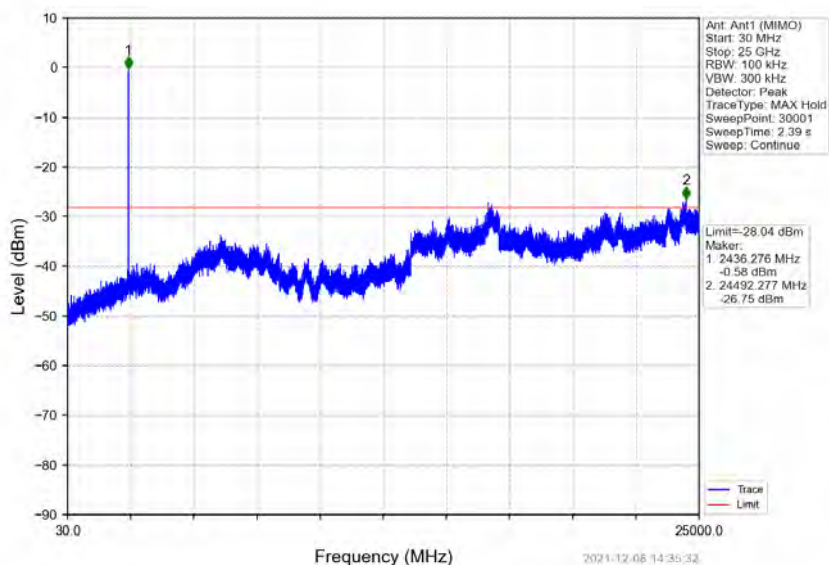
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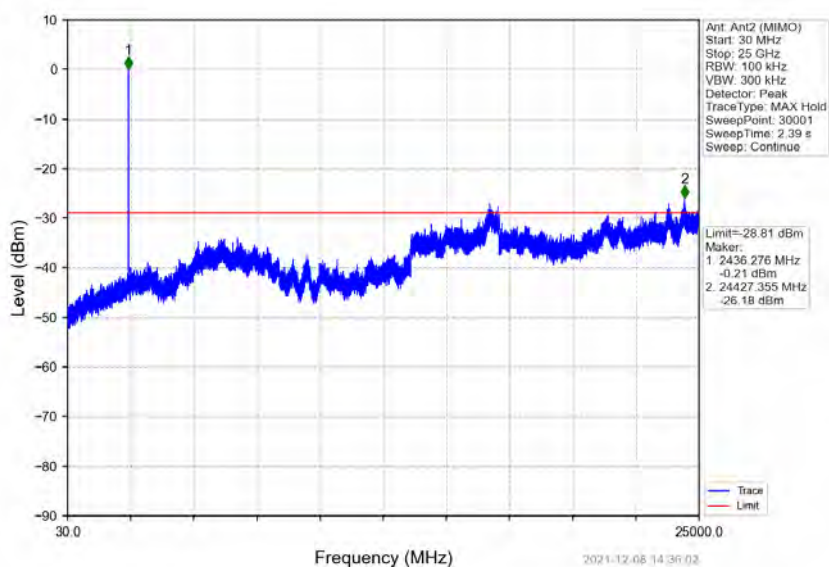
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTNV



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTNV



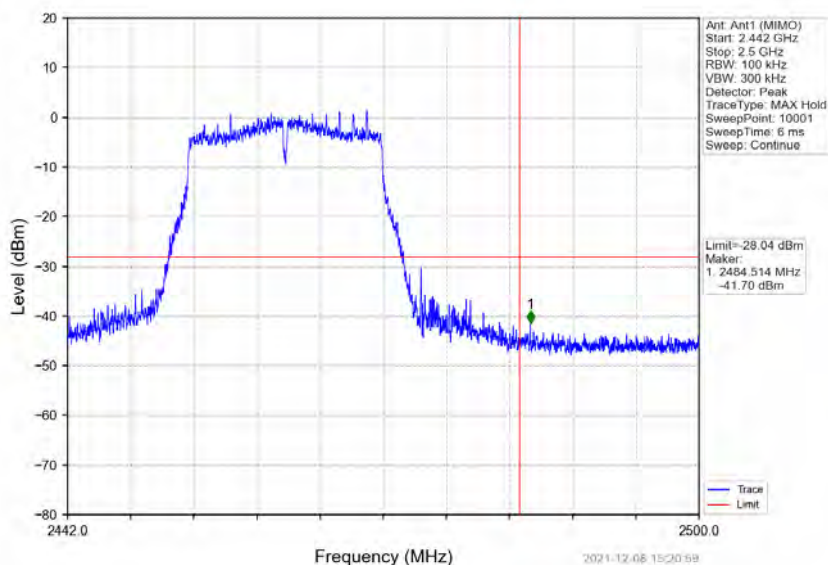
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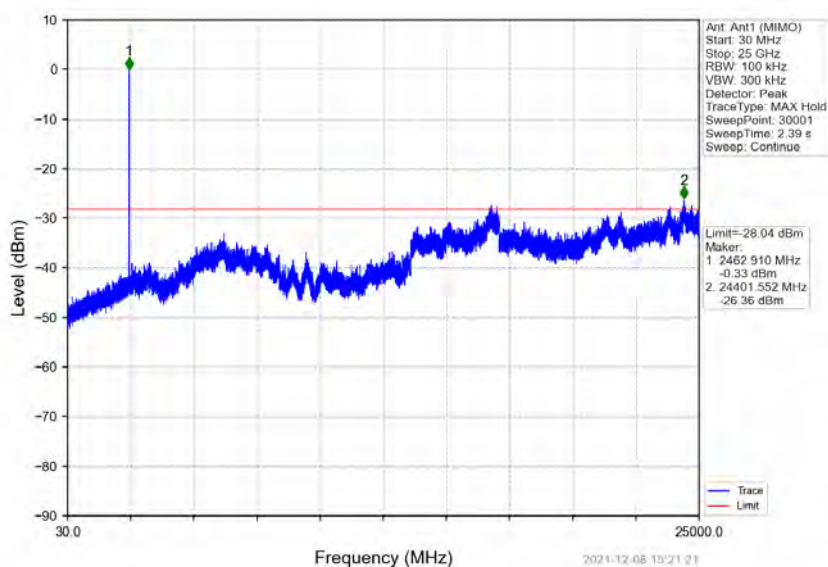
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802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTN



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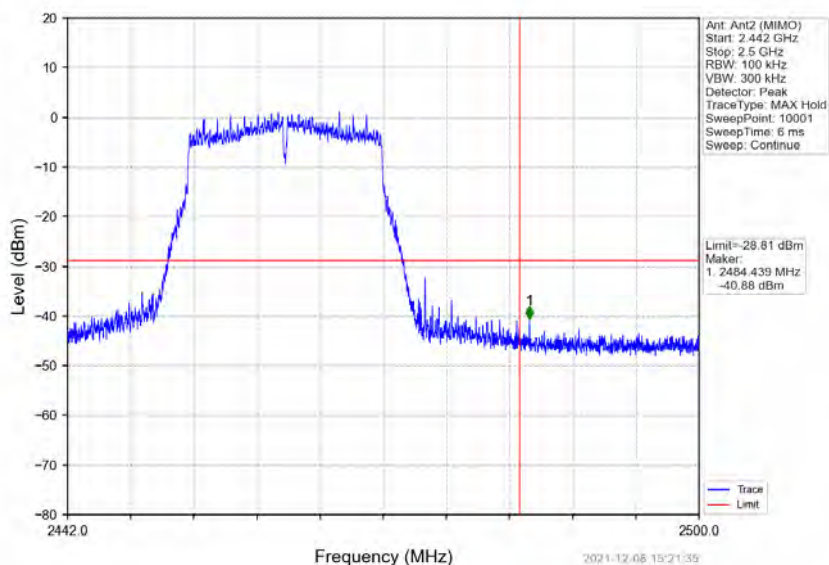
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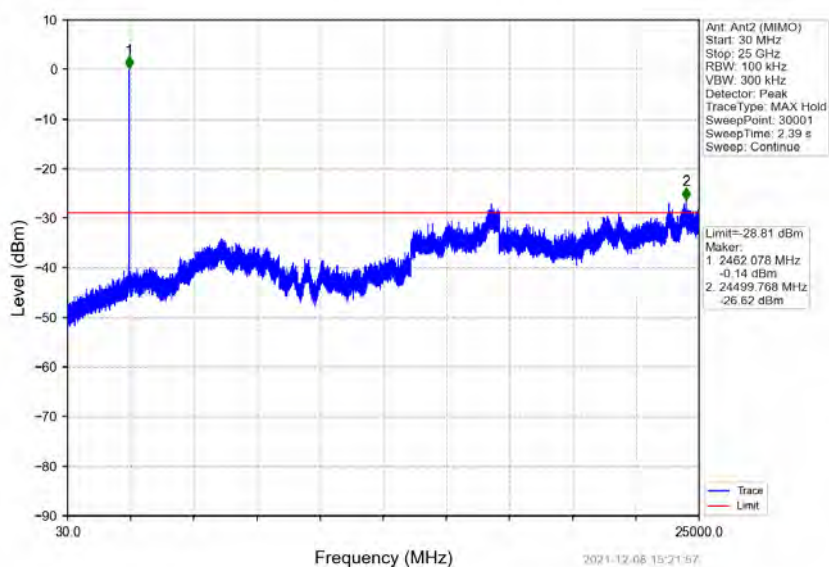
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6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq	High Freq	MAX Power (W)	MAX Power (dBm)
2412	2462	0.045	16.58



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