

Appendix A for SHCR220100002101

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

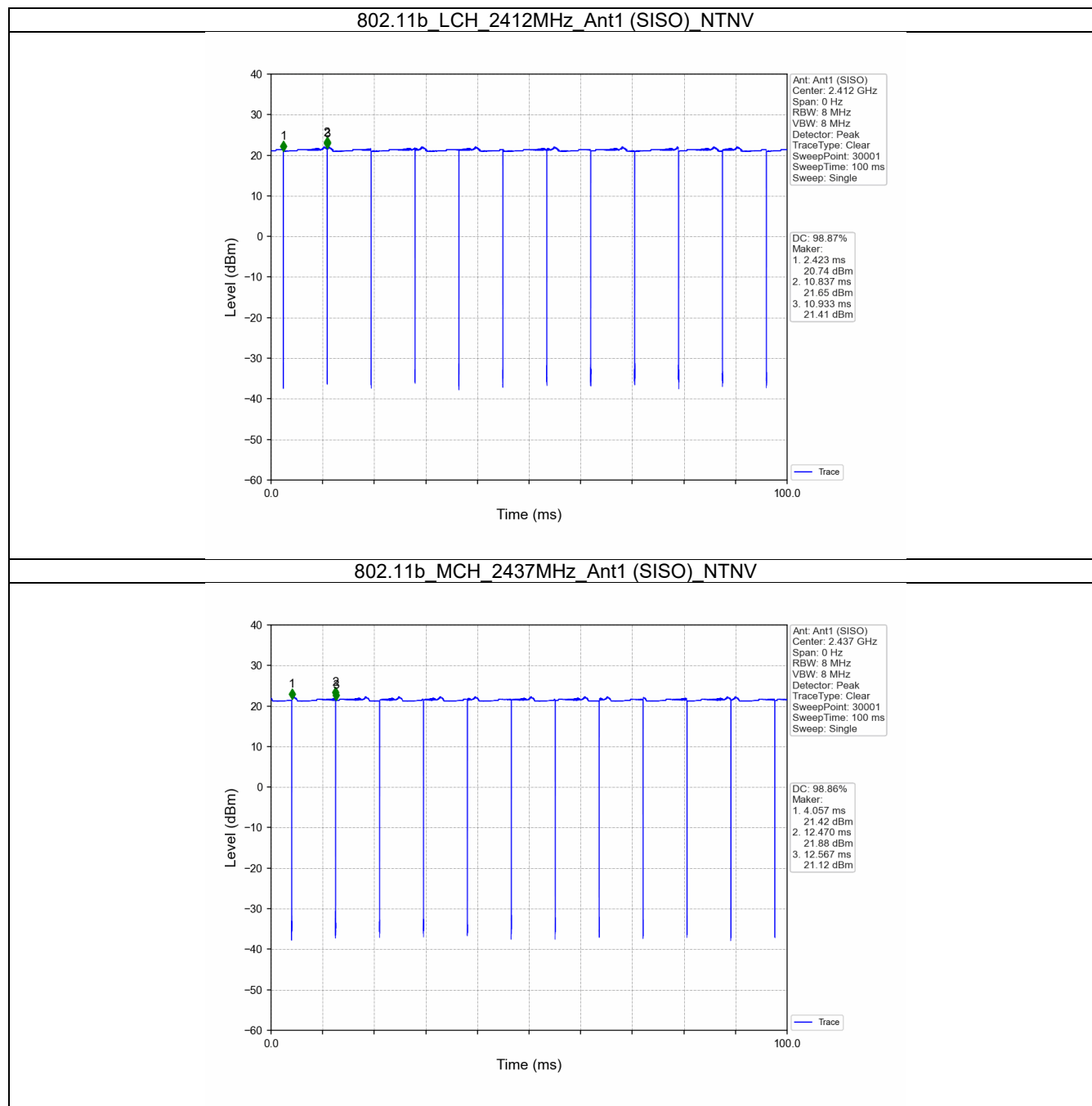
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.414	8.510	98.87	0.05	0.04
		2437	8.413	8.510	98.86	0.05	0.04
		2462	8.414	8.510	98.87	0.05	0.04
802.11g	SISO	2412	2.064	2.105	98.05	0.09	0.55
		2437	2.063	2.093	98.57	0.06	0.04
		2462	45.587	46.127	98.83	0.05	0.00
802.11n (HT20)	MIMO	2412	1.919	2.019	95.05	0.22	0.03
		2437	1.919	2.020	95.00	0.22	0.04
		2462	1.919	2.019	95.05	0.22	0.03



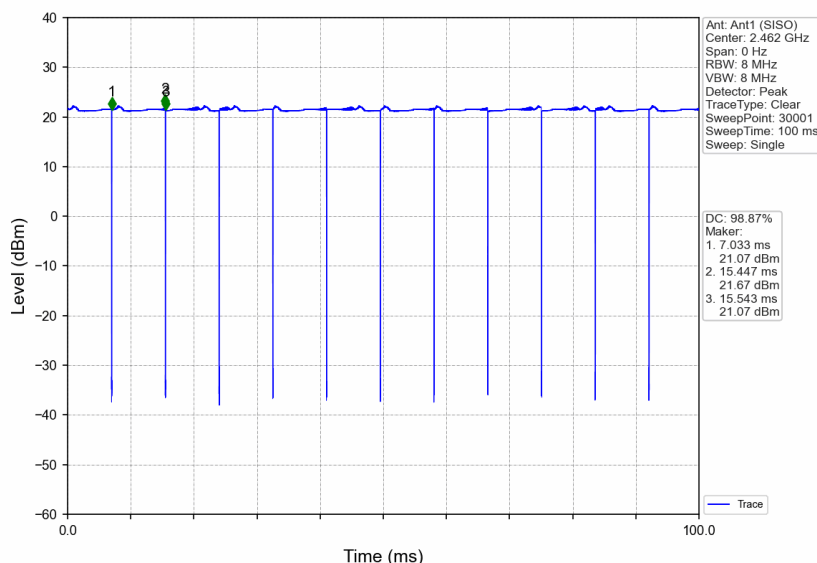
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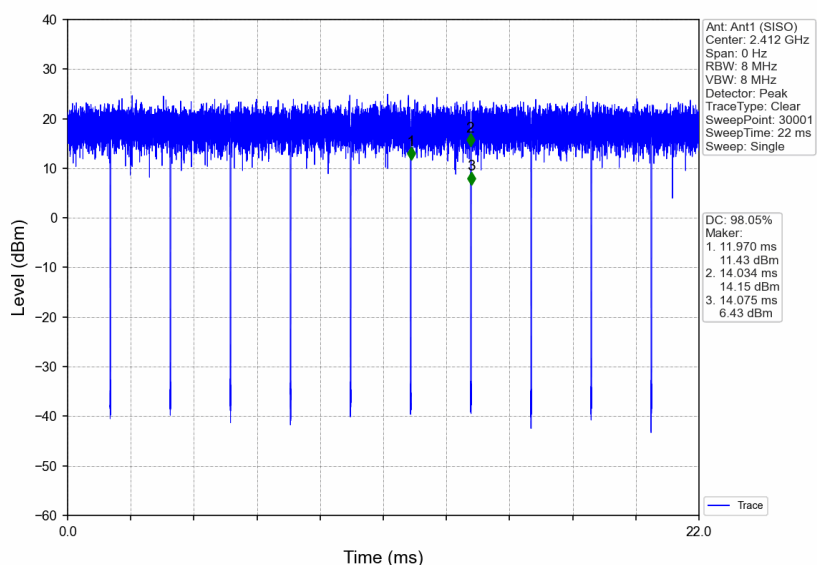
1.1.2 Test Graph



802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



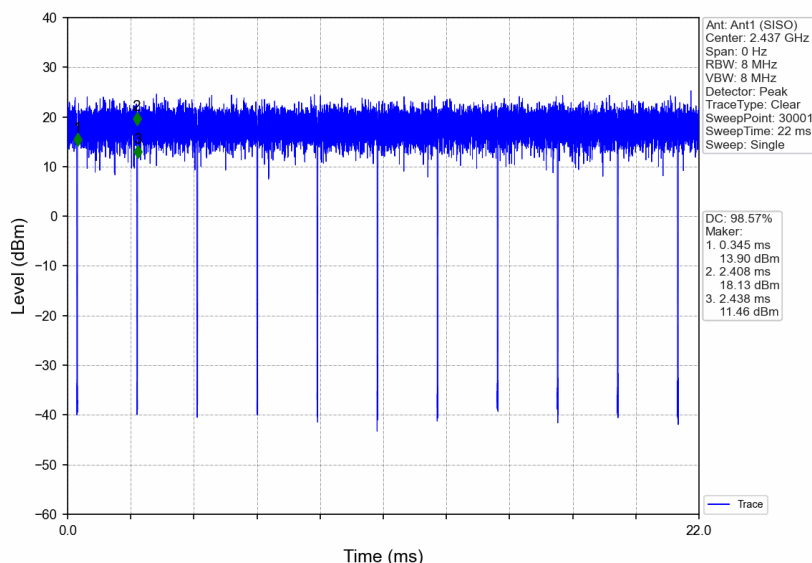
802.11g LCH 2412MHz_Ant1 (SISO)_NTNV



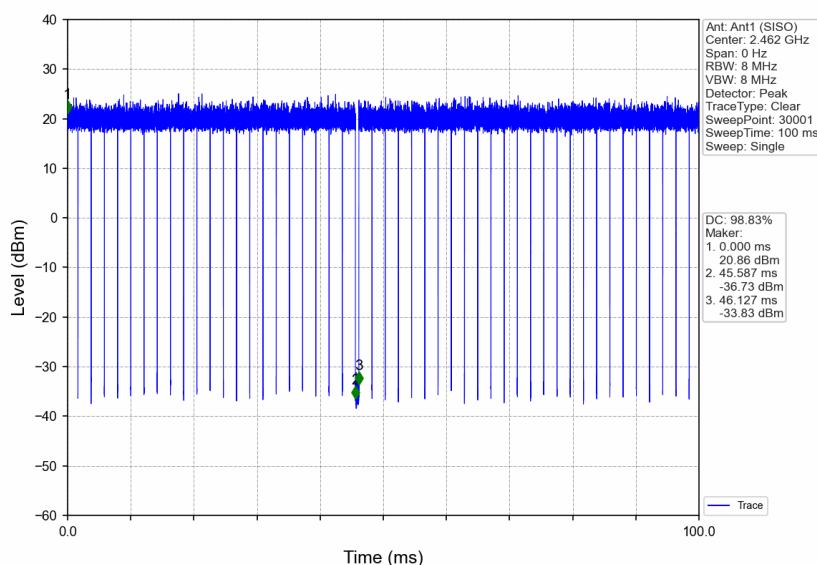
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



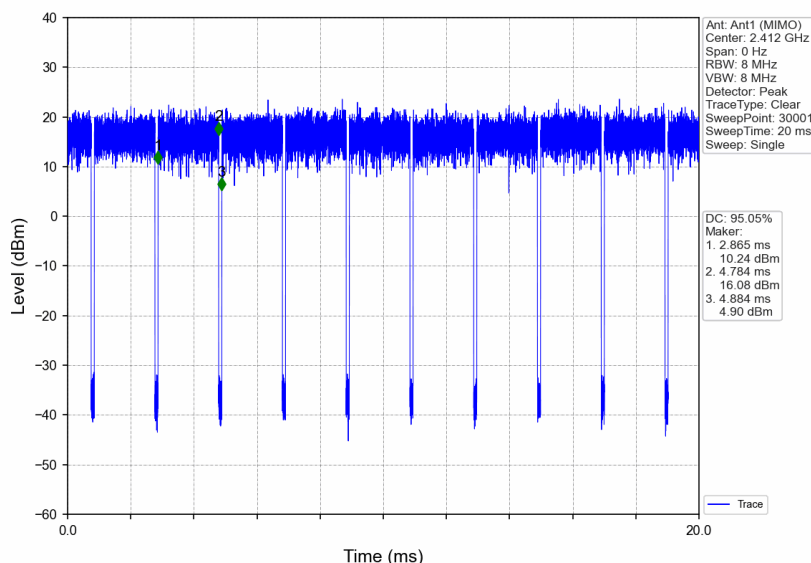
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



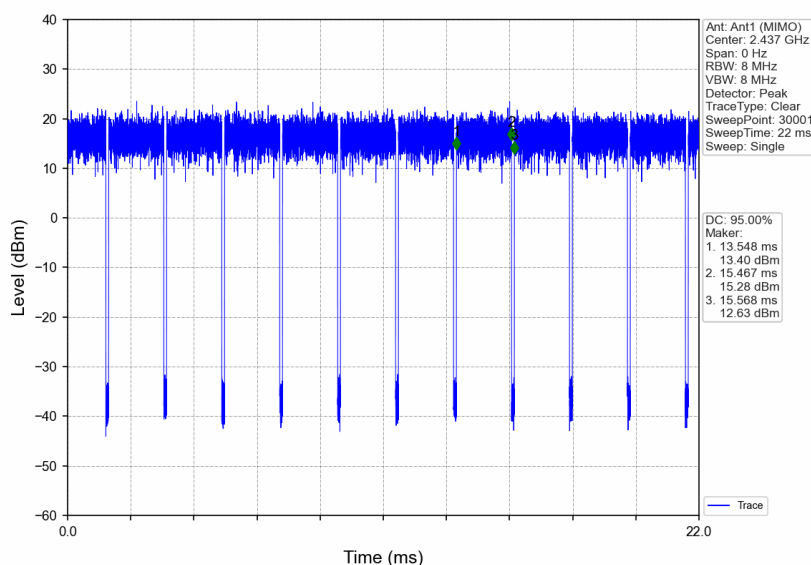
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



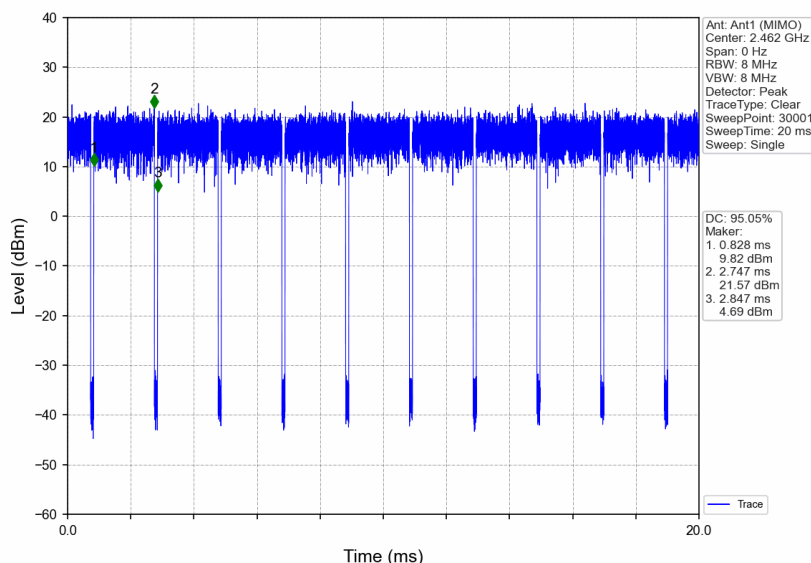
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO) NTN



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



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

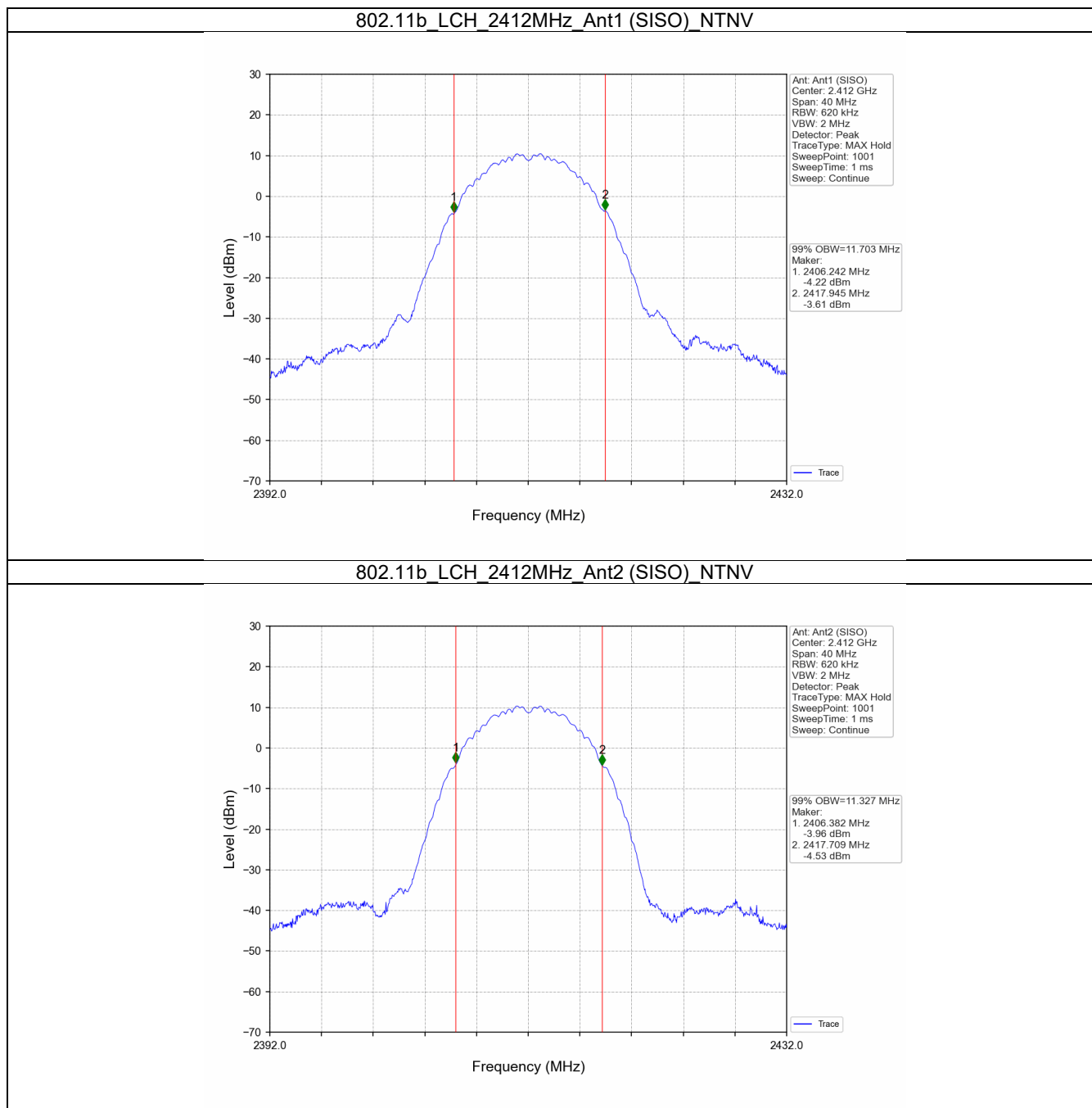
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	11.703	Pass
			2	11.327	Pass
		2437	1	11.388	Pass
			2	11.319	Pass
		2462	1	11.367	Pass
			2	11.349	Pass
802.11g	SISO	2412	1	18.272	Pass
			2	18.185	Pass
		2437	1	18.152	Pass
			2	18.145	Pass
		2462	1	18.144	Pass
			2	18.144	Pass
802.11n (HT20)	MIMO	2412	1	18.925	Pass
			2	18.318	Pass
		2437	1	18.877	Pass
			2	18.323	Pass
		2462	1	18.952	Pass
			2	18.284	Pass



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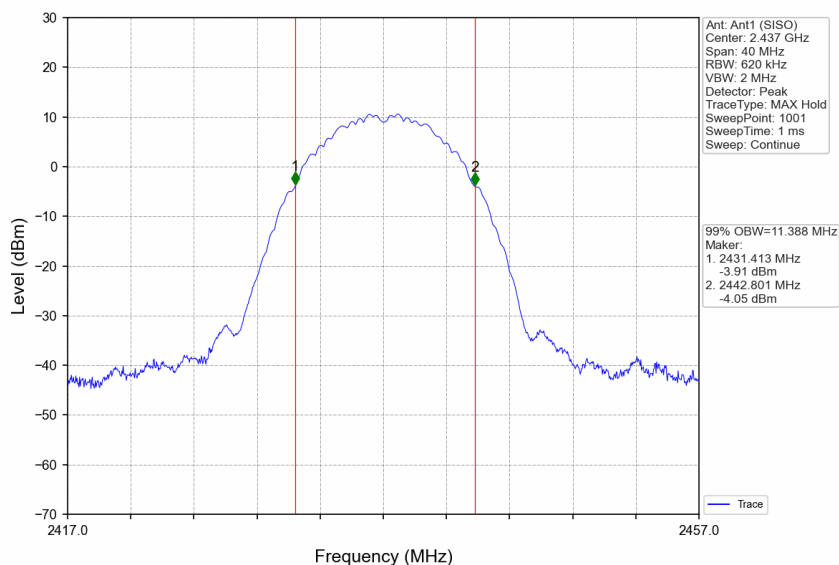
2.1.2 Test Graph



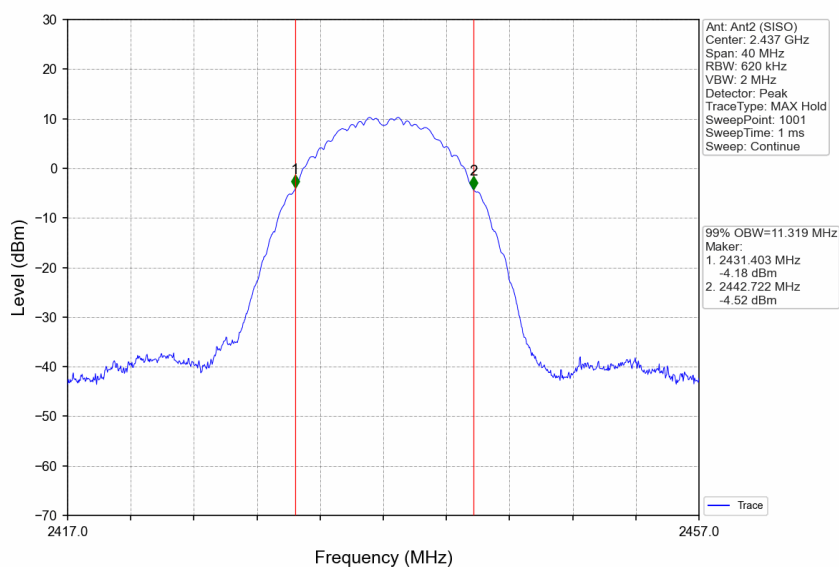
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802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



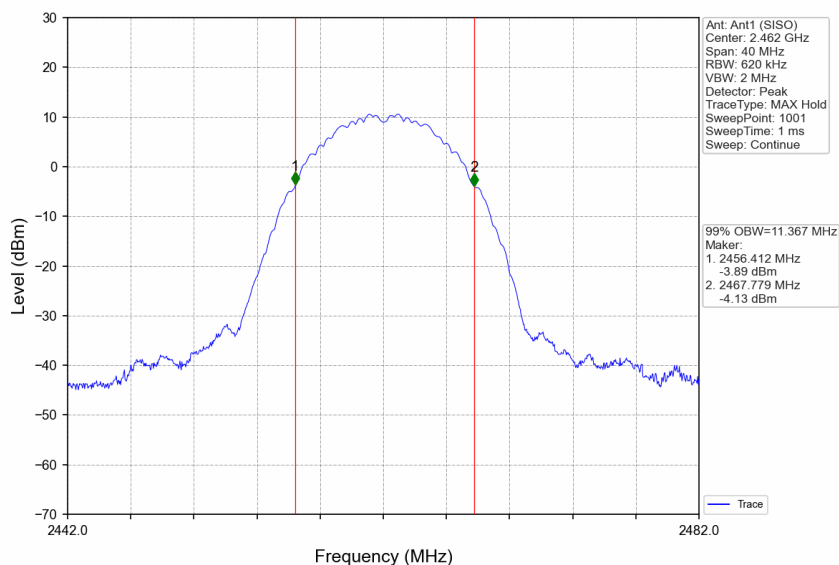
802.11b MCH 2437MHz_Ant2 (SISO)_NTNV



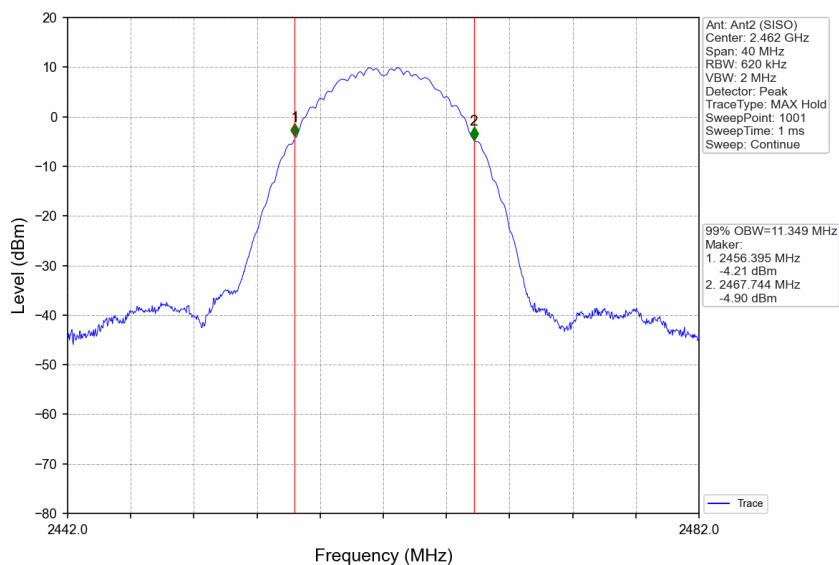
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



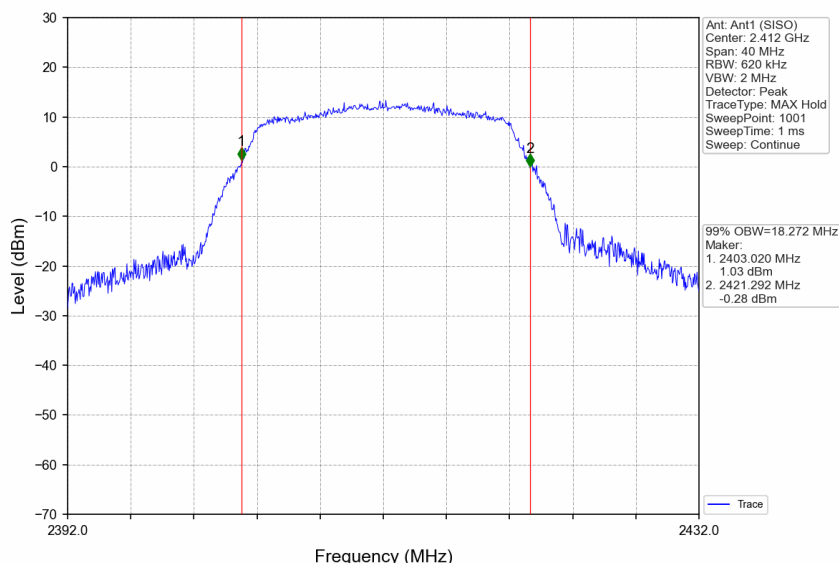
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



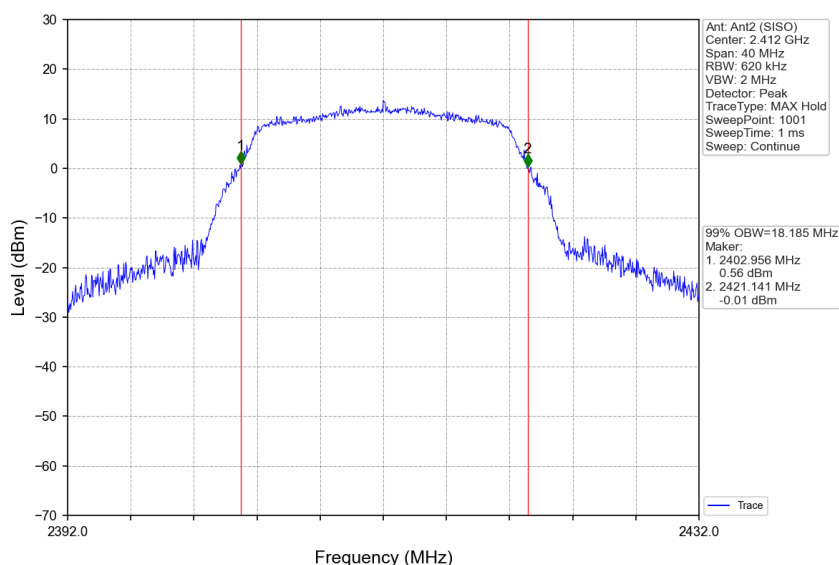
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



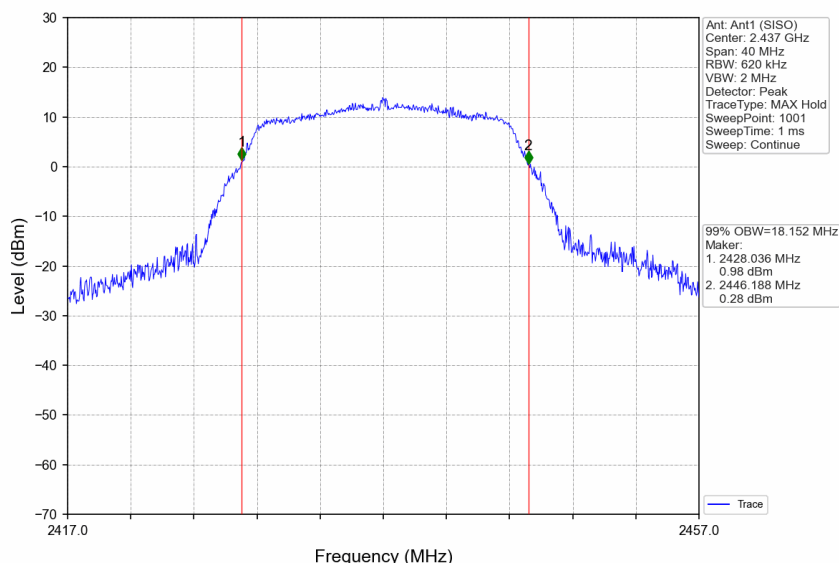
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



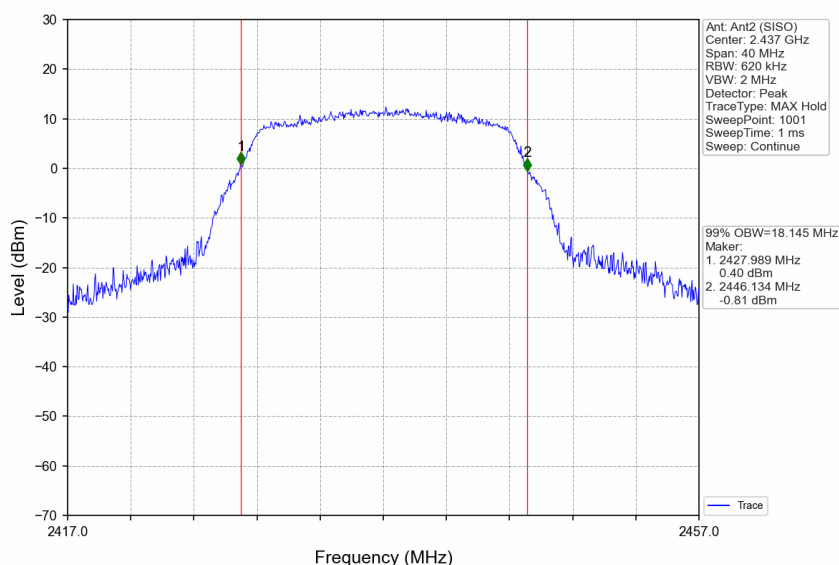
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802.11g MCH 2437MHz_Ant1 (SISO)_NTNV



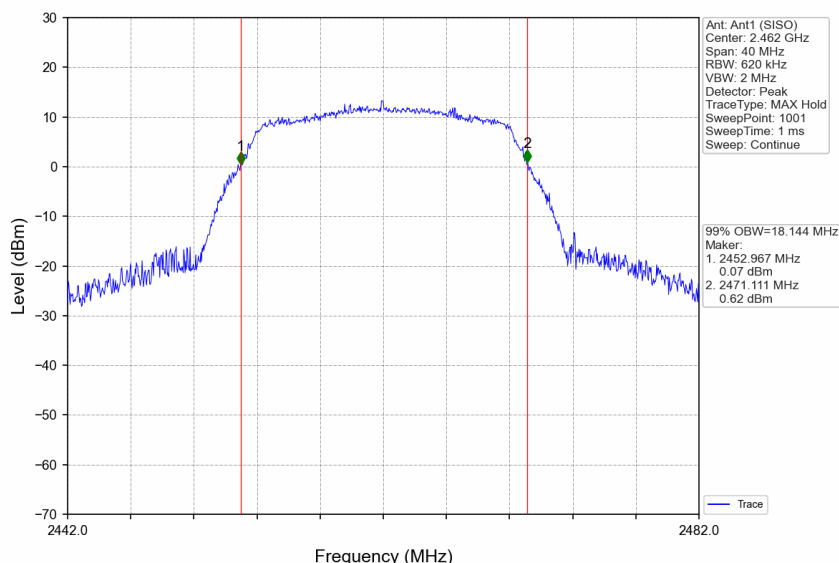
802.11g MCH 2437MHz_Ant2 (SISO)_NTNV



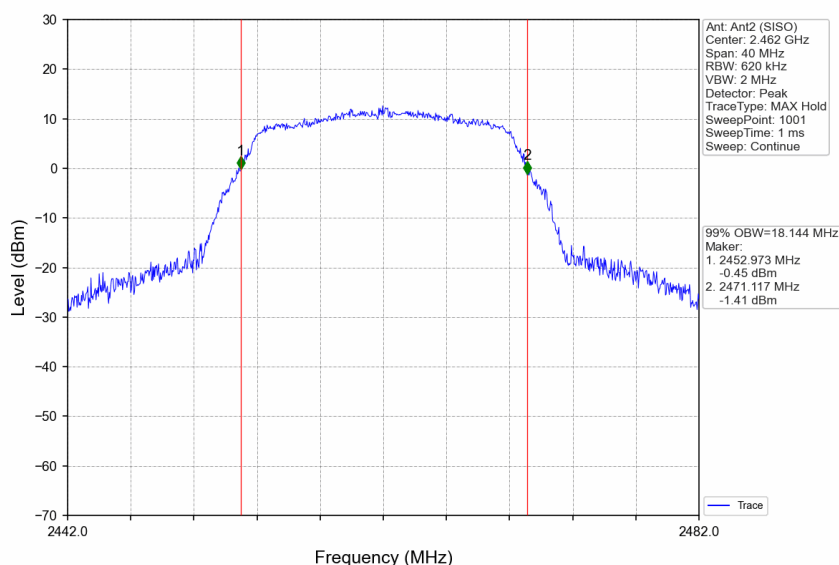
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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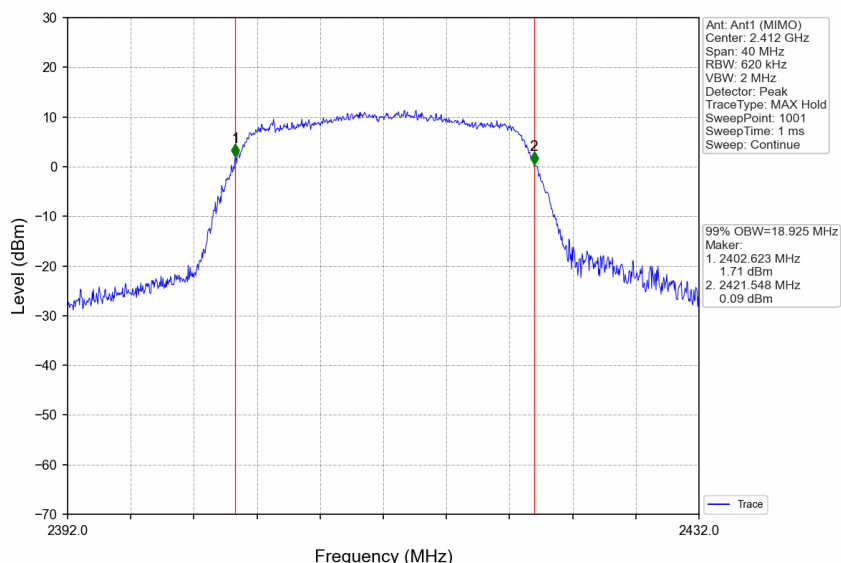
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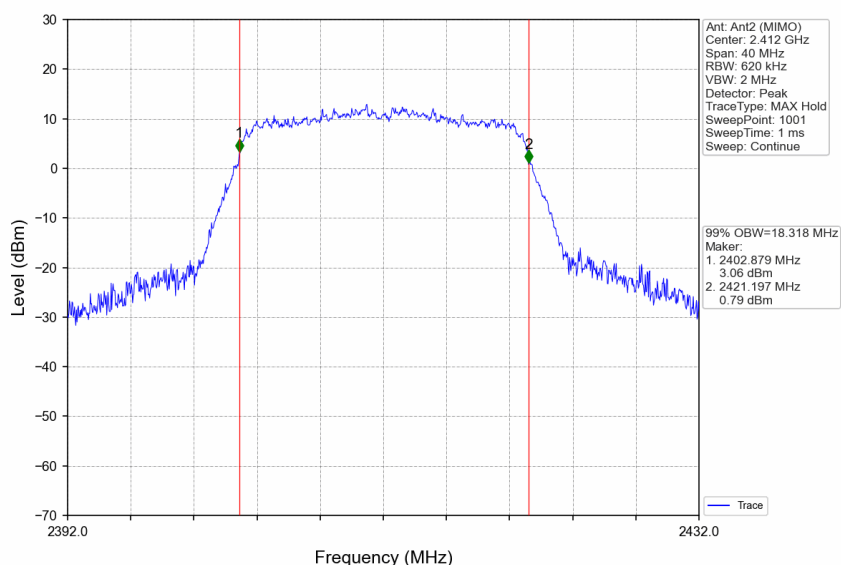
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



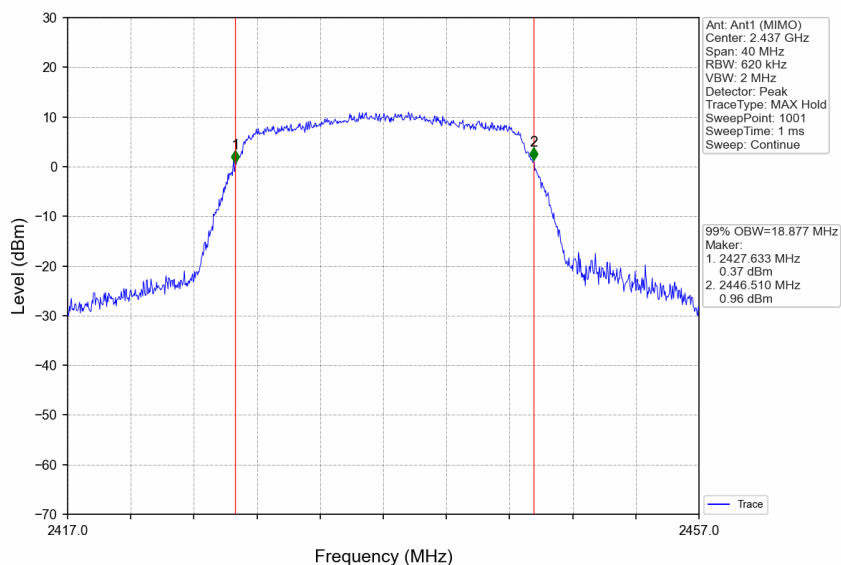
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



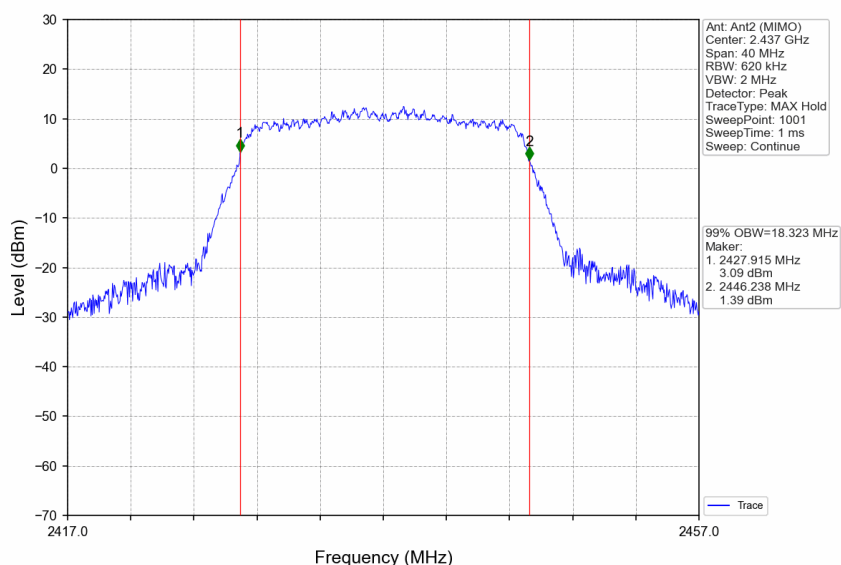
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



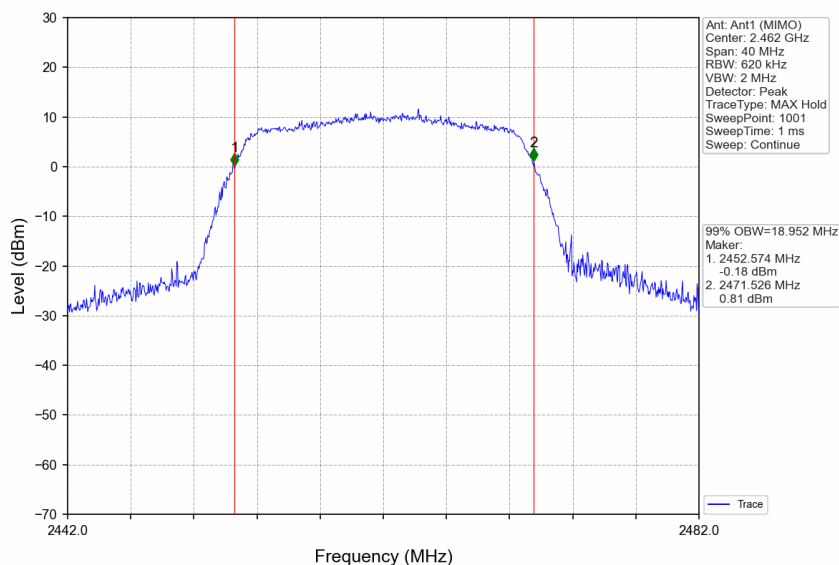
802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



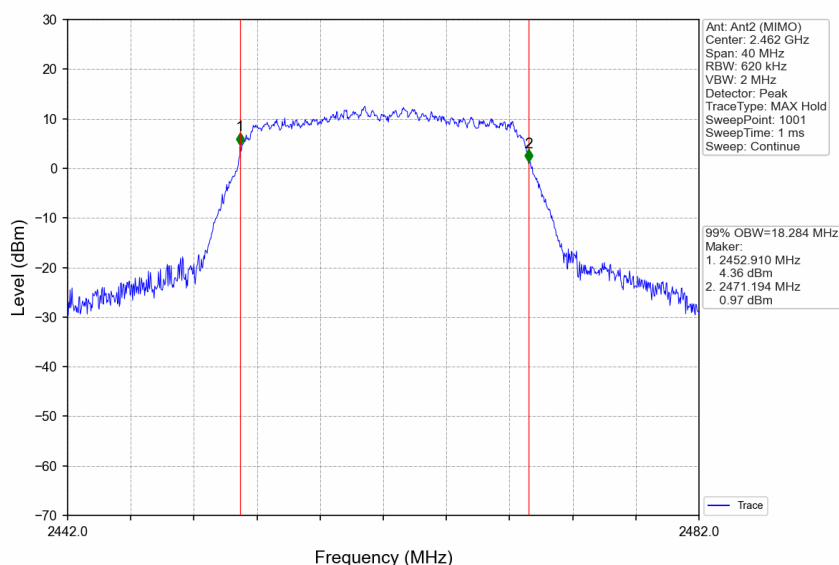
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802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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2.2 6dB BW

2.2.1 Test Result

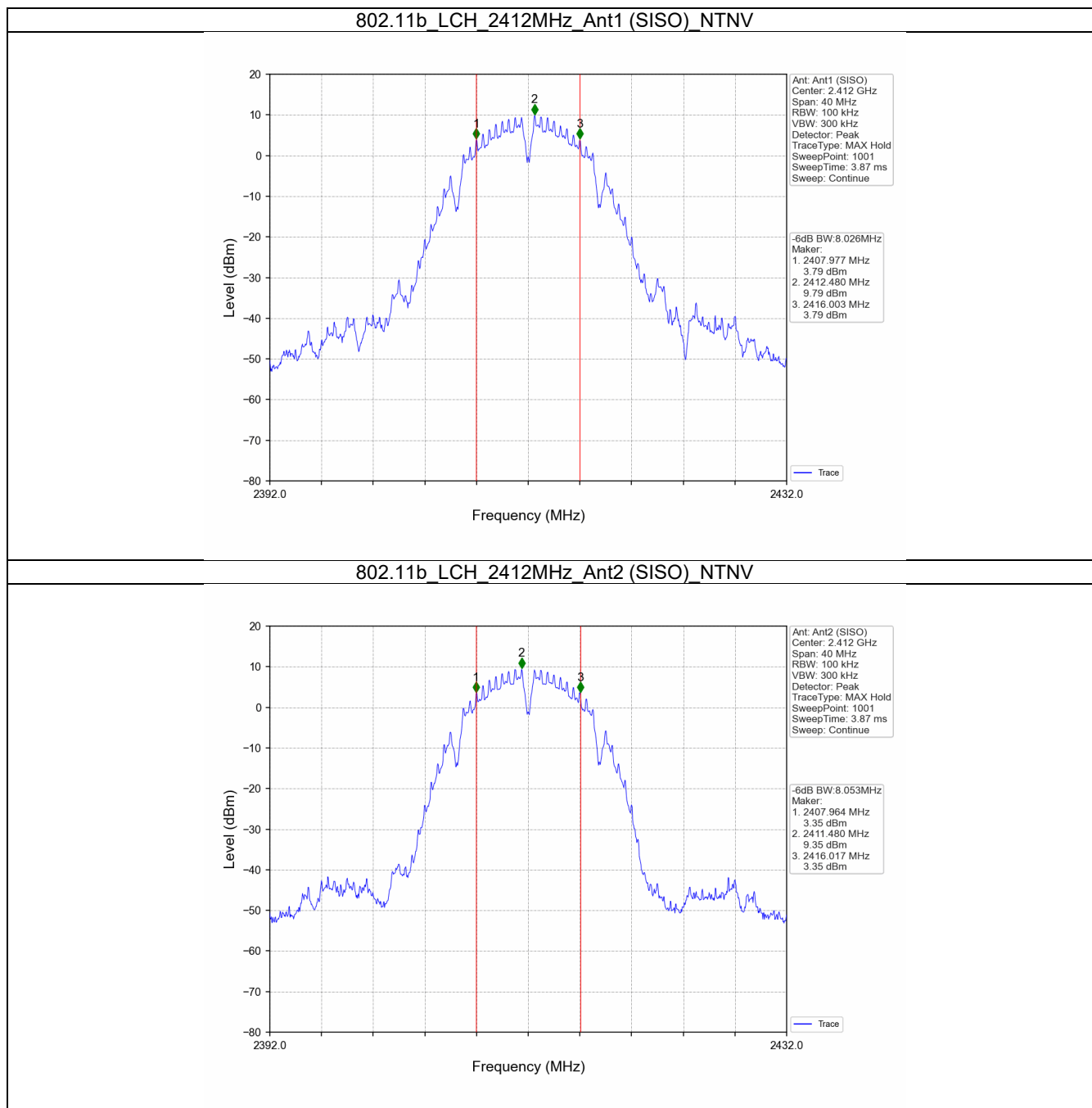
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.026	≥ 0.5	Pass
			2	8.053	≥ 0.5	Pass
		2437	1	7.561	≥ 0.5	Pass
			2	7.614	≥ 0.5	Pass
		2462	1	7.609	≥ 0.5	Pass
			2	7.563	≥ 0.5	Pass
802.11g	SISO	2412	1	16.378	≥ 0.5	Pass
			2	16.424	≥ 0.5	Pass
		2437	1	16.422	≥ 0.5	Pass
			2	16.377	≥ 0.5	Pass
		2462	1	16.373	≥ 0.5	Pass
			2	16.389	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.574	≥ 0.5	Pass
			2	17.648	≥ 0.5	Pass
		2437	1	17.421	≥ 0.5	Pass
			2	17.657	≥ 0.5	Pass
		2462	1	17.584	≥ 0.5	Pass
			2	17.643	≥ 0.5	Pass



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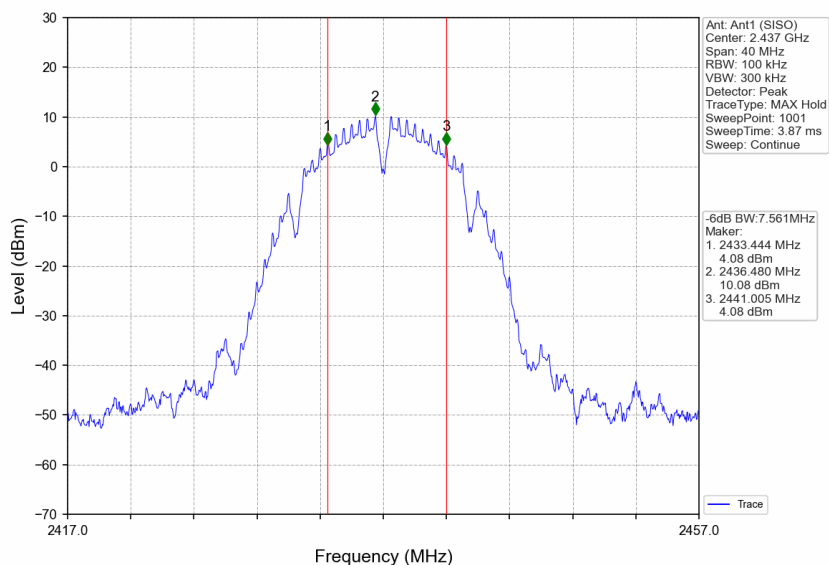
2.2.2 Test Graph



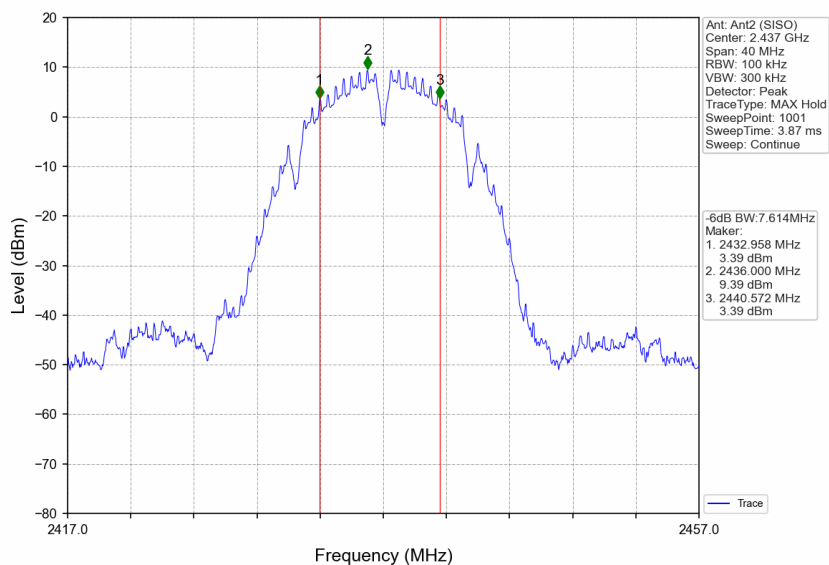
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802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



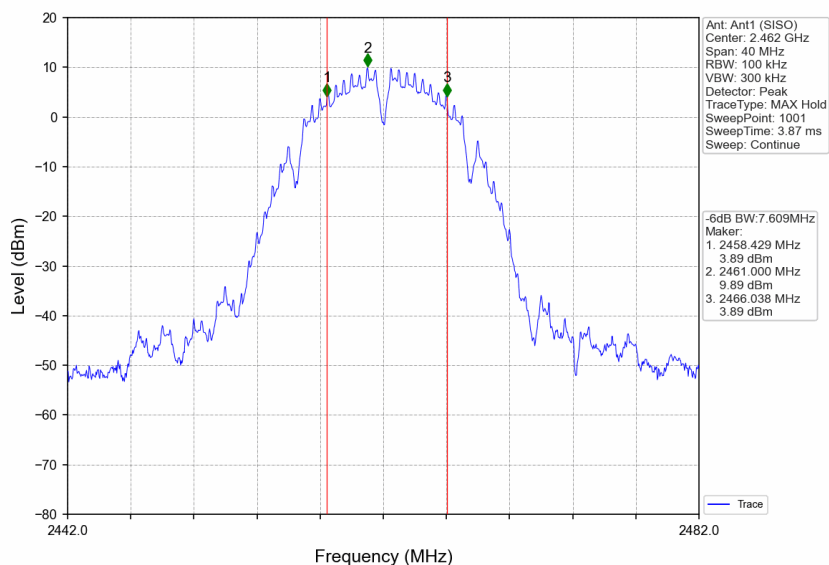
802.11b MCH 2437MHz_Ant2 (SISO)_NTNV



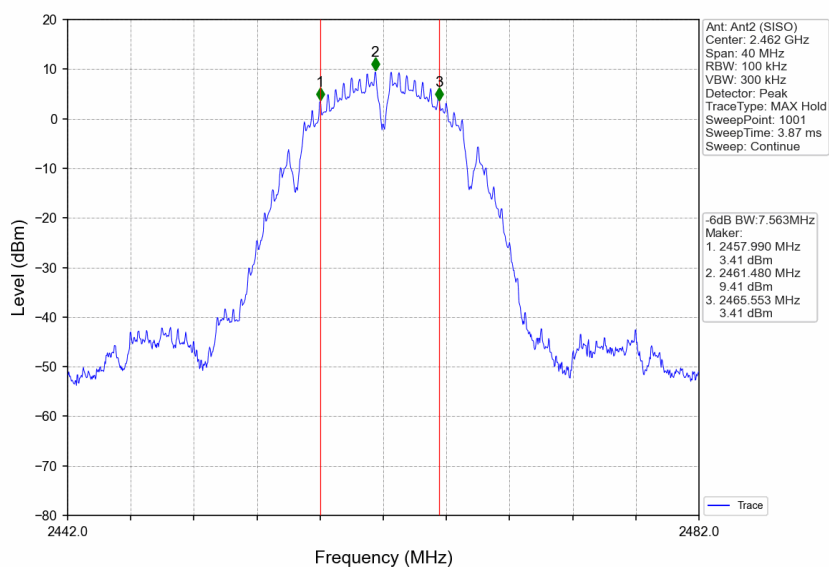
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



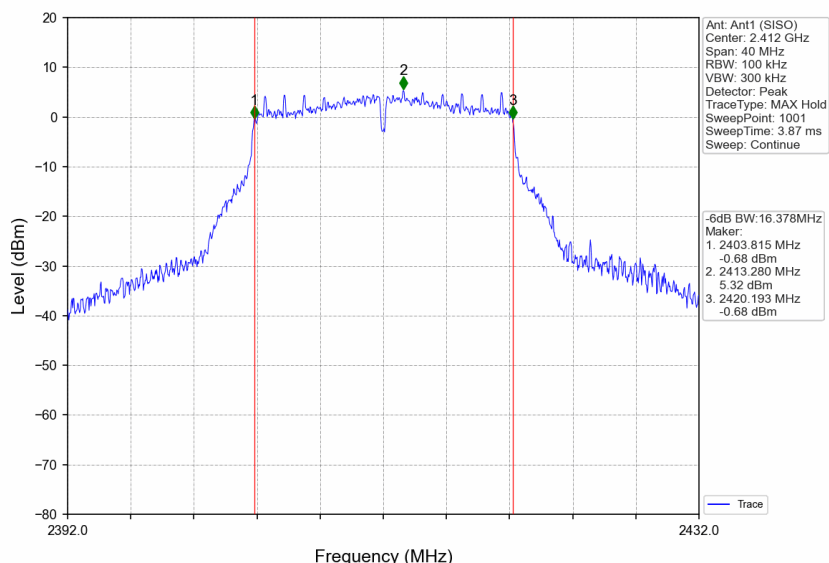
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



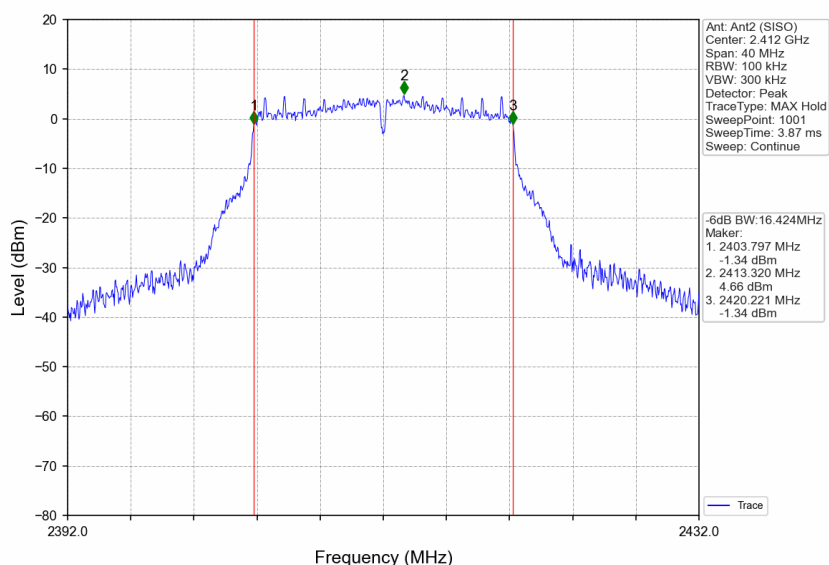
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802.11g LCH 2412MHz_Ant1 (SISO)_NTNV



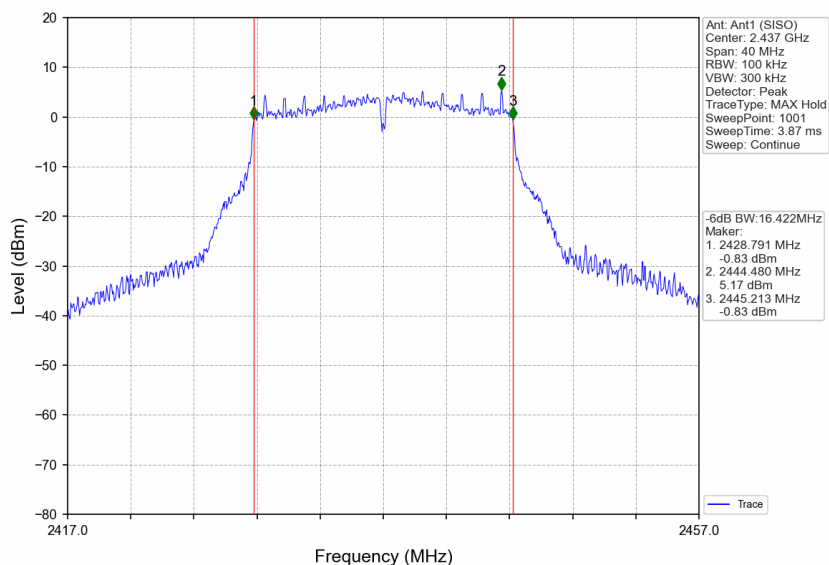
802.11g LCH 2412MHz_Ant2 (SISO)_NTNV



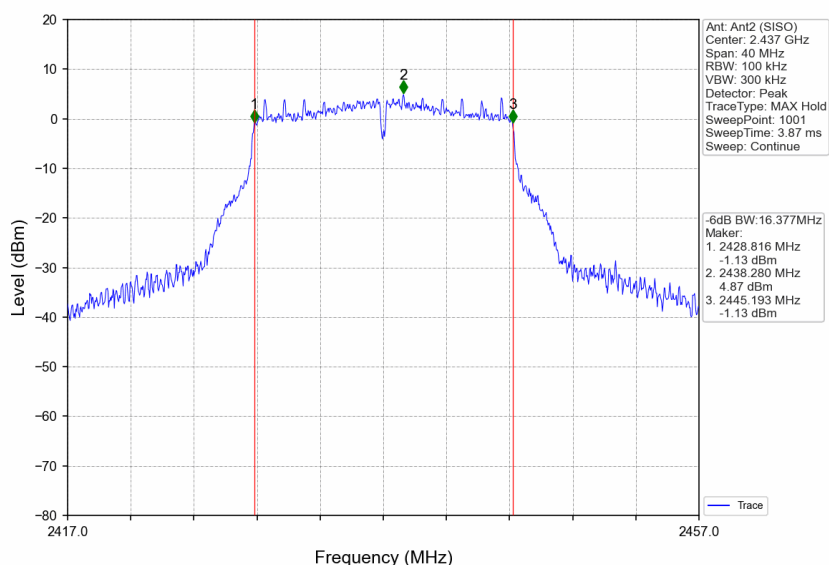
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802.11g MCH 2437MHz_Ant1 (SISO)_NTNV



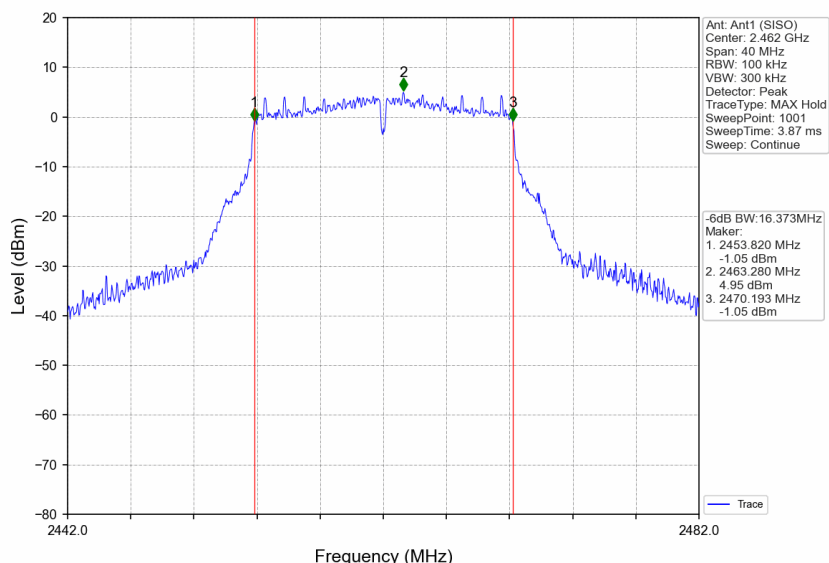
802.11g MCH 2437MHz_Ant2 (SISO)_NTNV



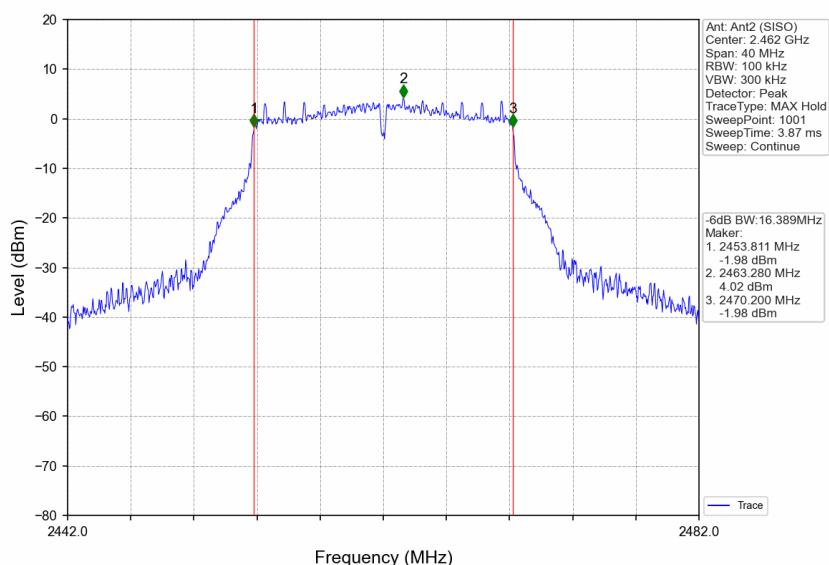
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



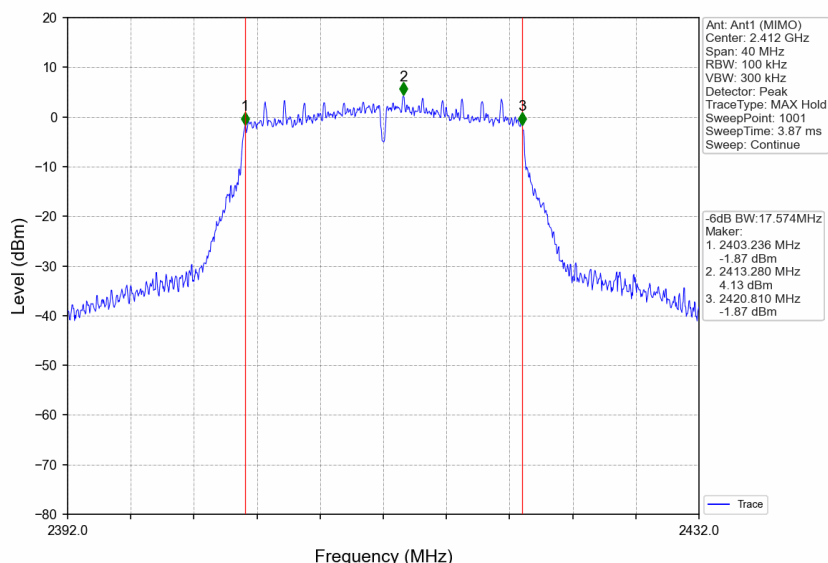
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



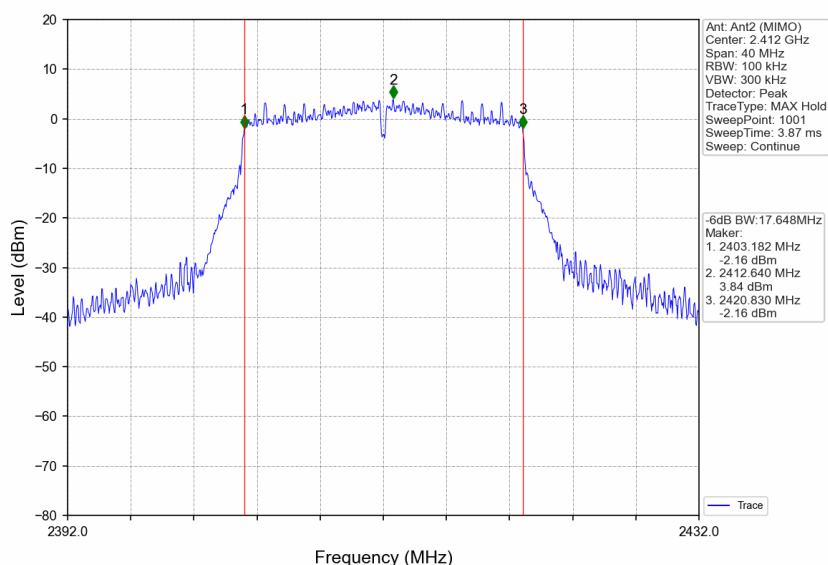
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



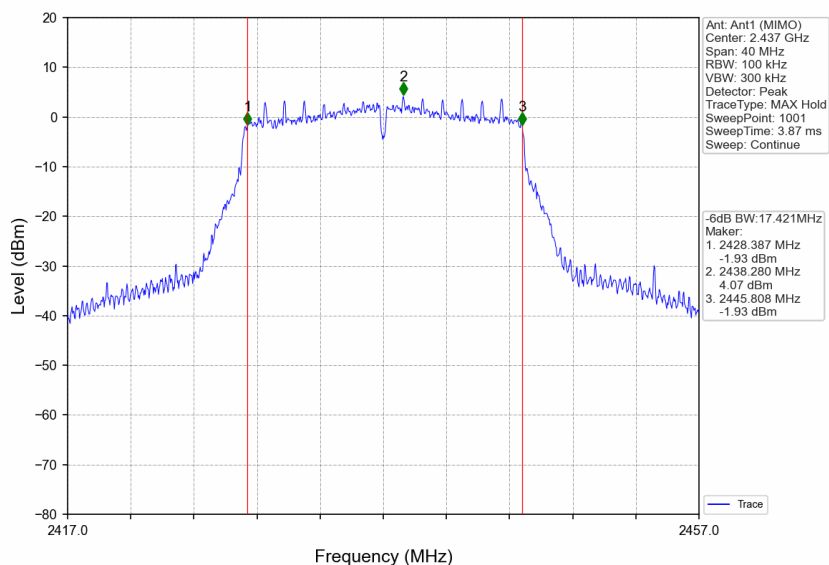
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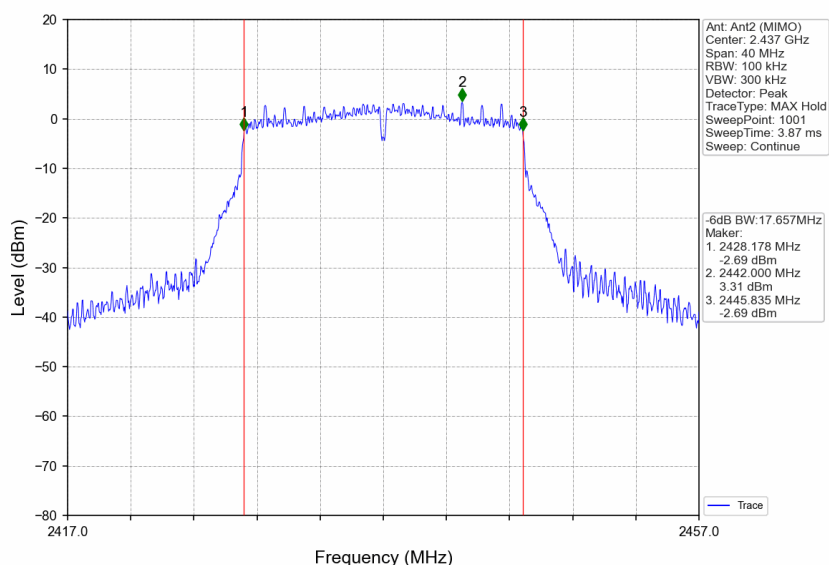
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

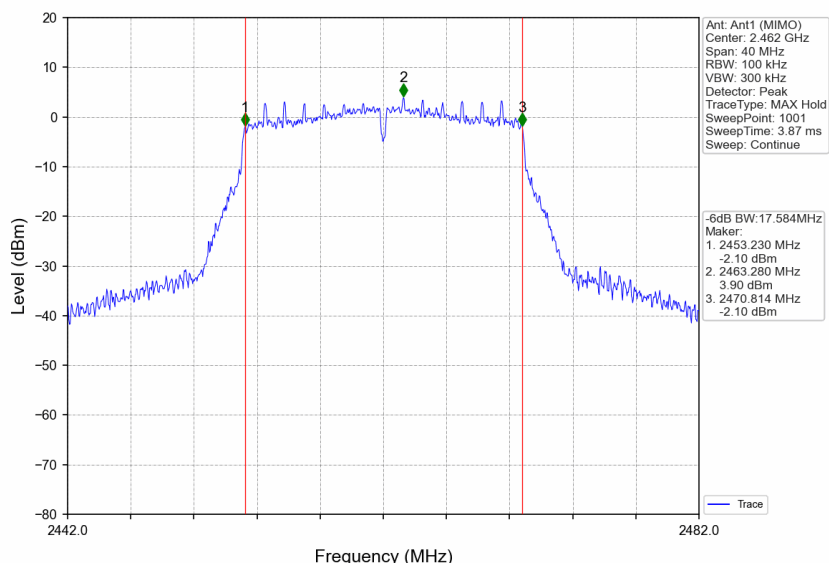
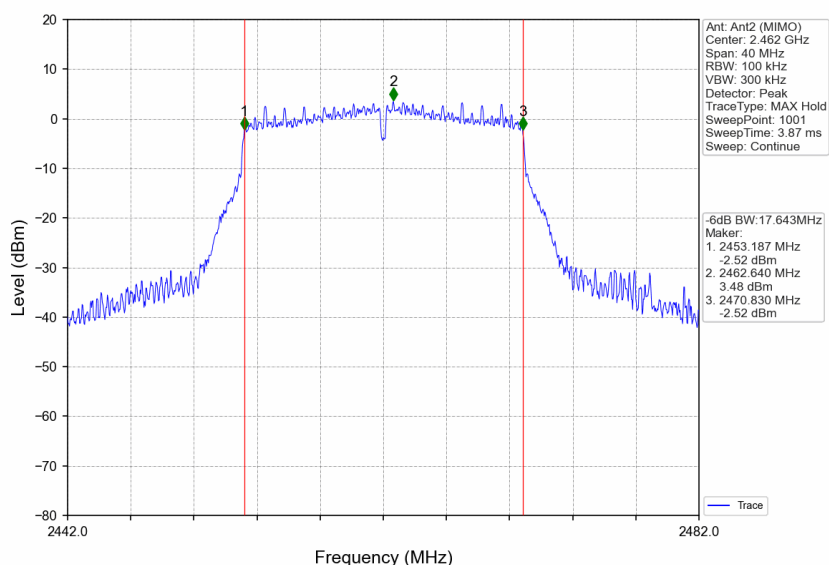


802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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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	17.32	17.18	/	<=30	Pass
		2437	17.51	17.02	/	<=30	Pass
		2462	17.52	16.87	/	<=30	Pass
802.11g	SISO	2412	16.84	16.30	/	<=30	Pass
		2437	16.79	15.97	/	<=30	Pass
		2462	16.46	15.75	/	<=30	Pass
802.11n (HT20)	MIMO	2412	15.47	15.06	18.28	<=28.48	Pass
		2437	15.51	14.95	18.25	<=28.48	Pass
		2462	15.26	14.85	18.07	<=28.48	Pass

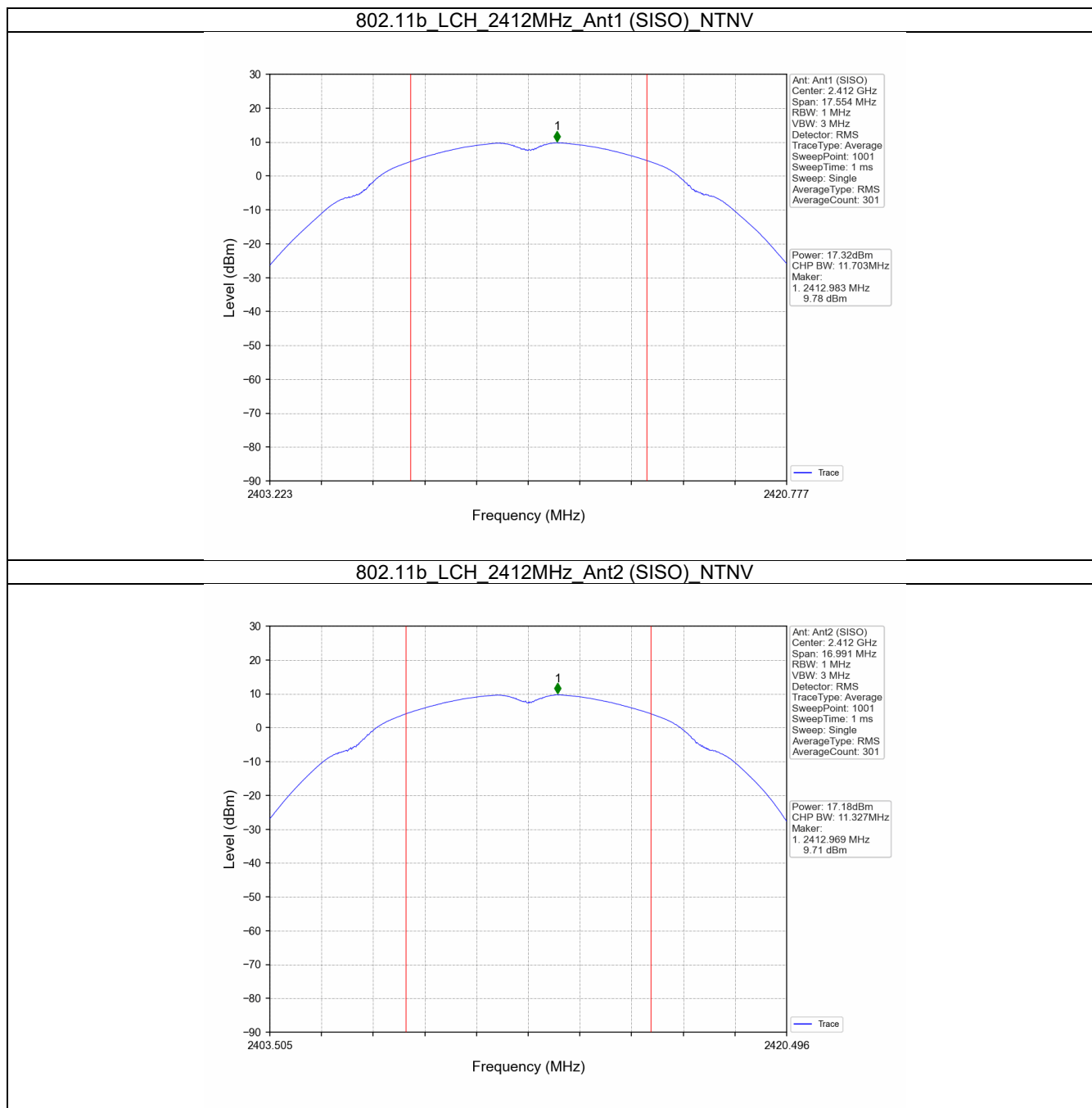
Note1: Antenna Gain: Ant1: 4.35dBi; Ant2: 4.67dBi;
Note2: Directional Gain: 7.52dBi



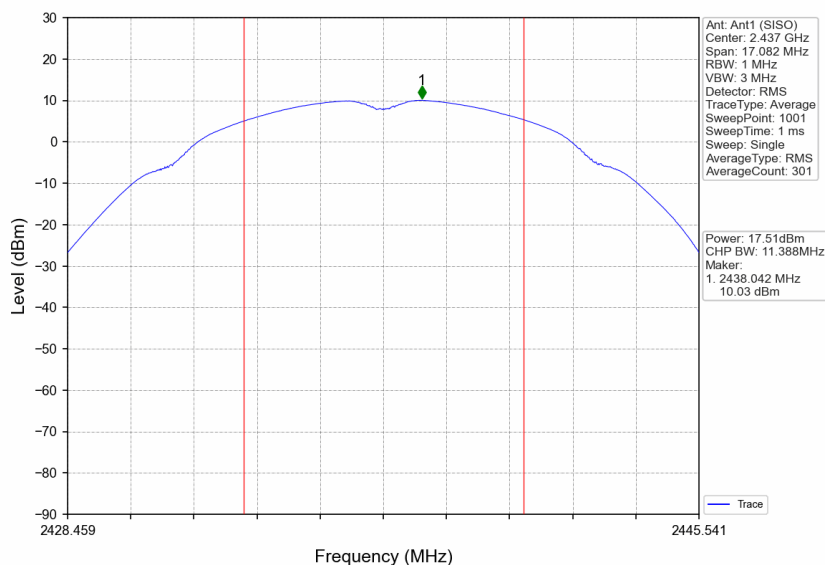
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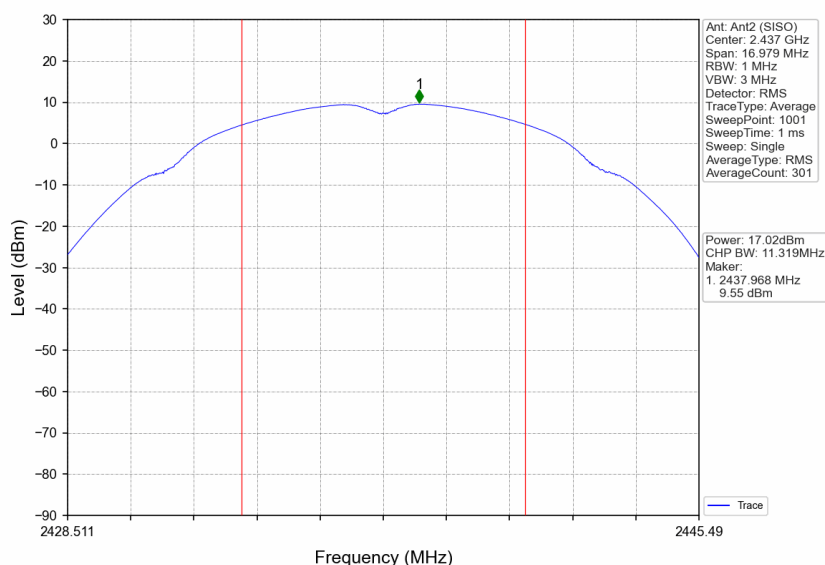
3.1.2 Test Graph



802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



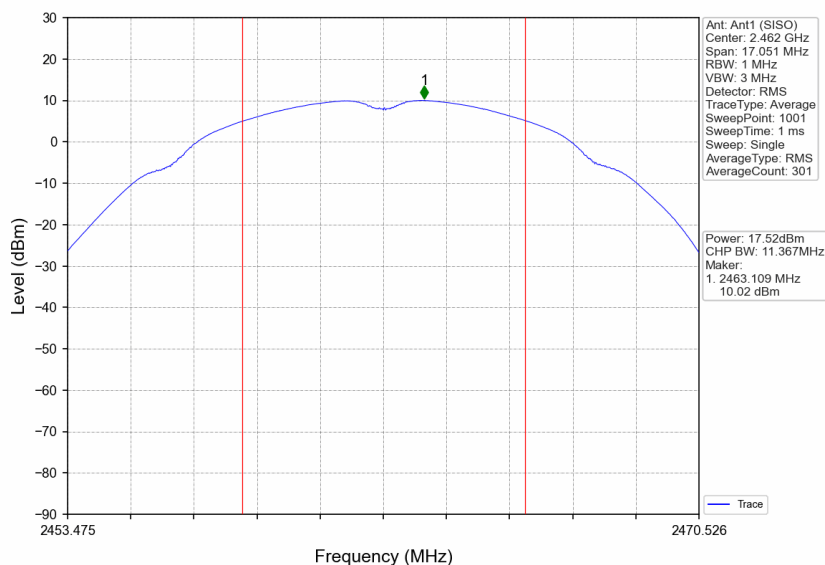
802.11b MCH 2437MHz_Ant2 (SISO)_NTNV



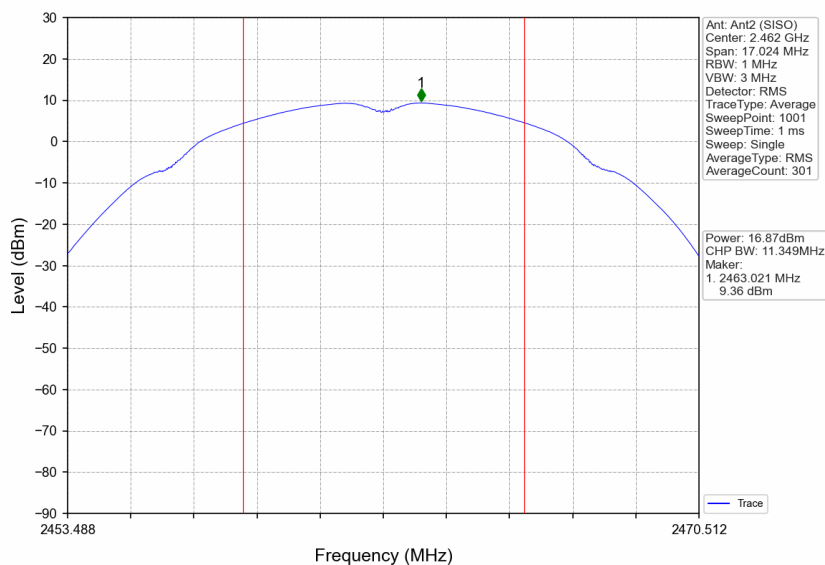
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



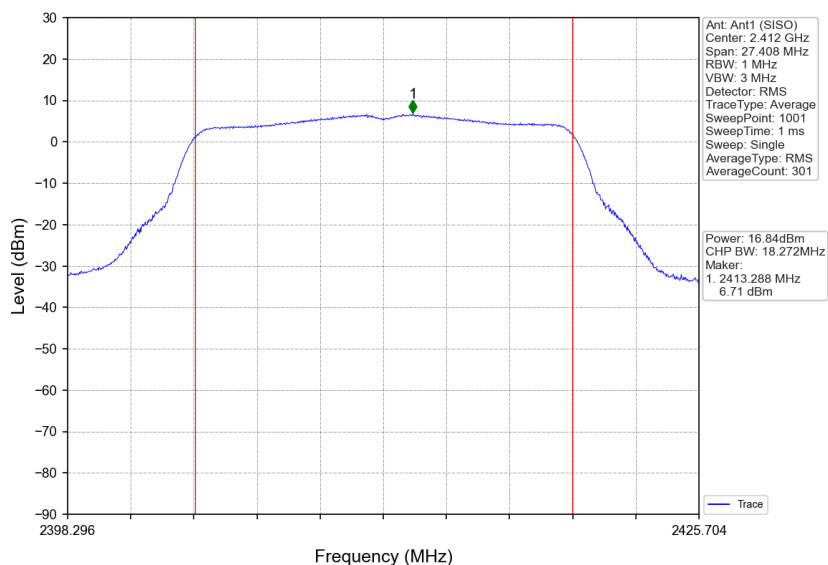
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



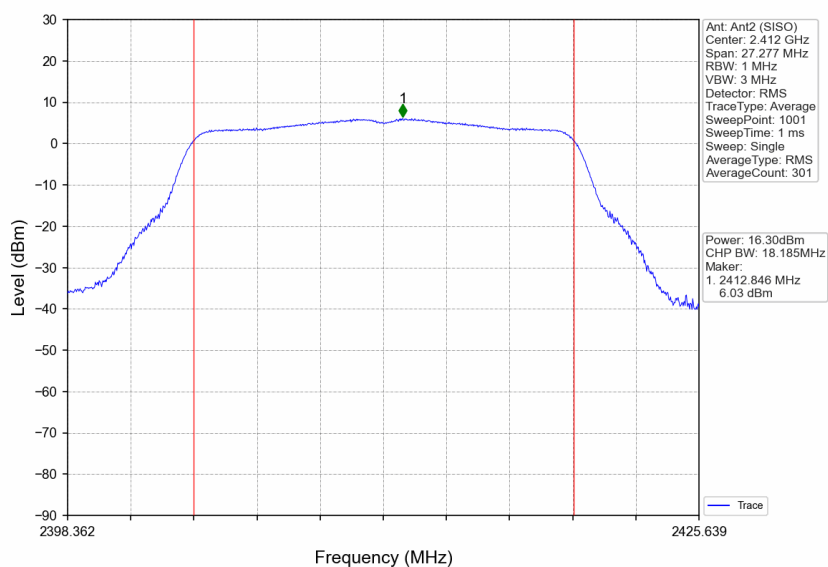
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



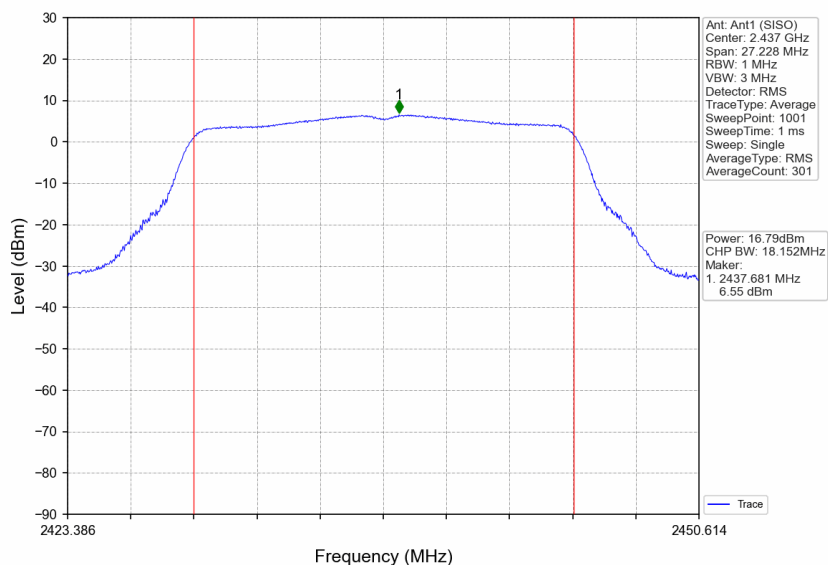
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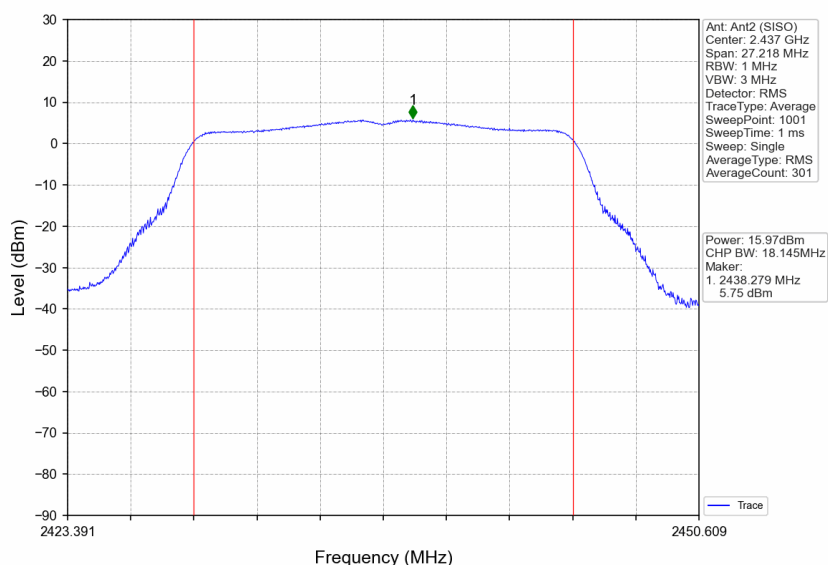
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802.11g MCH 2437MHz_Ant1 (SISO)_NTNV



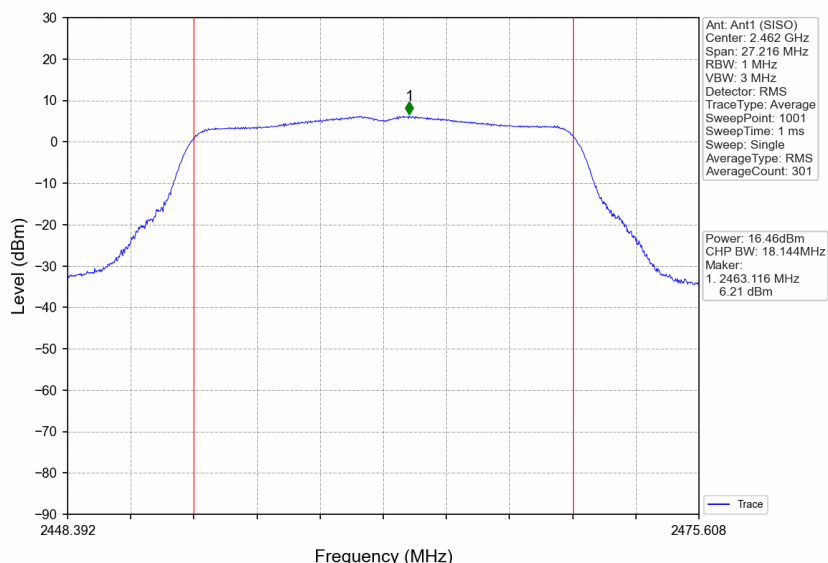
802.11g MCH 2437MHz_Ant2 (SISO)_NTNV



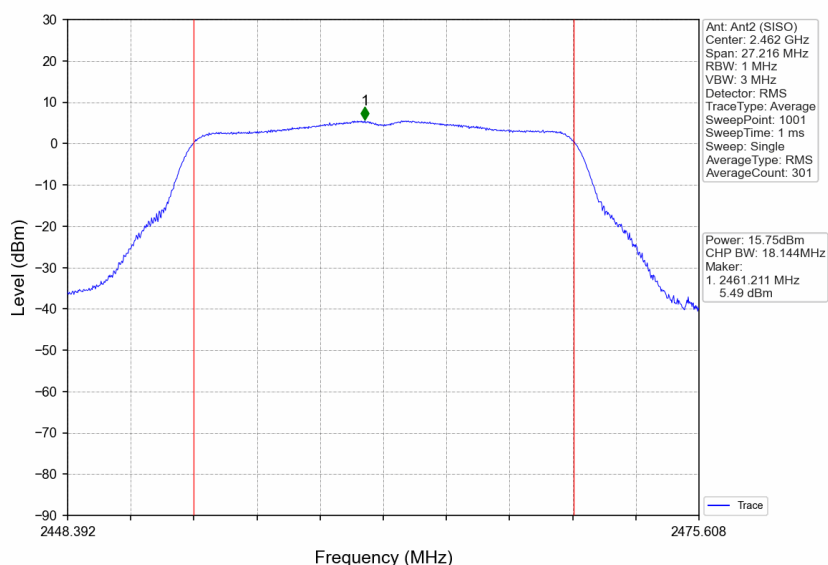
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



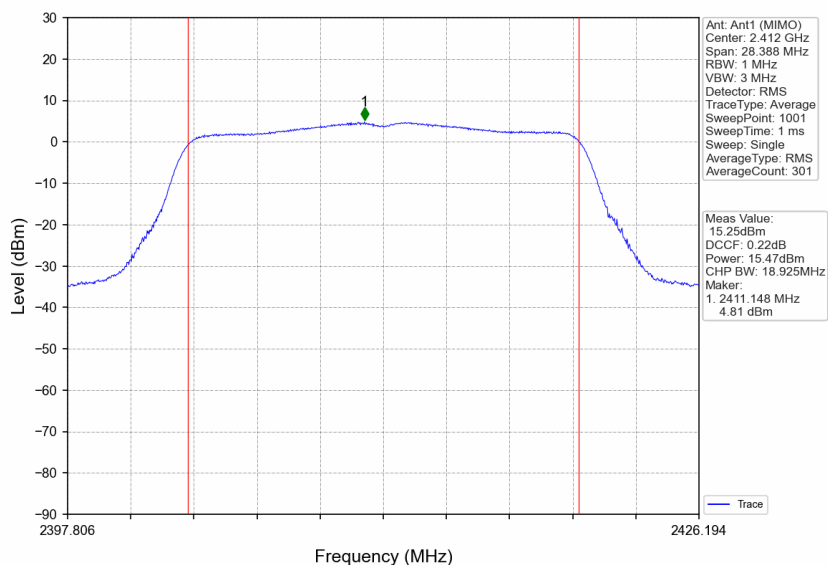
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



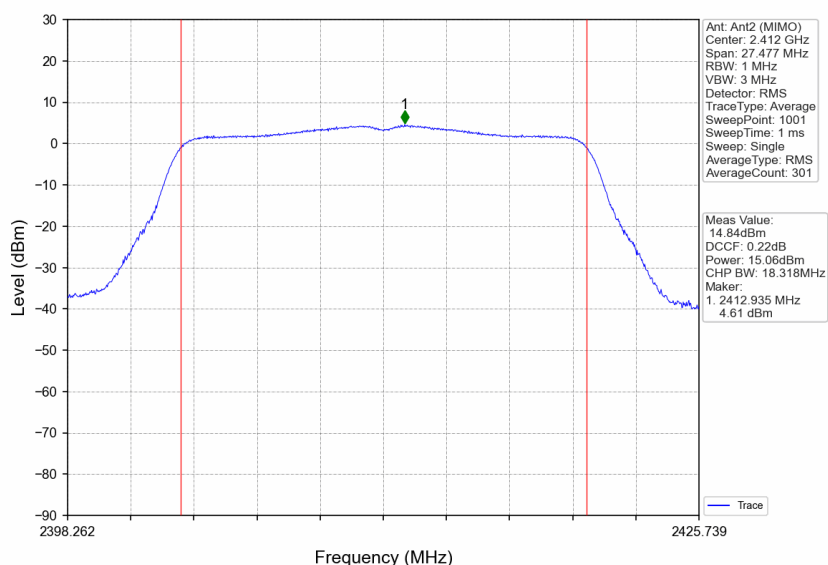
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



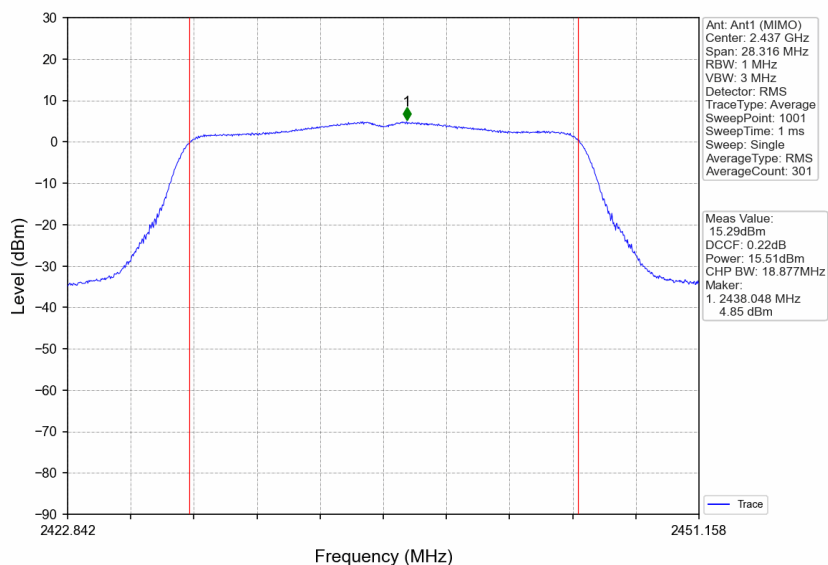
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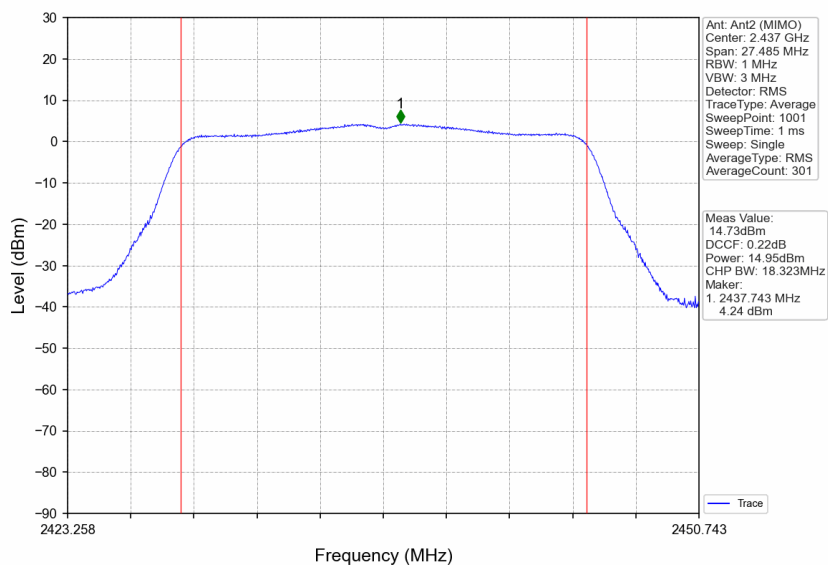
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



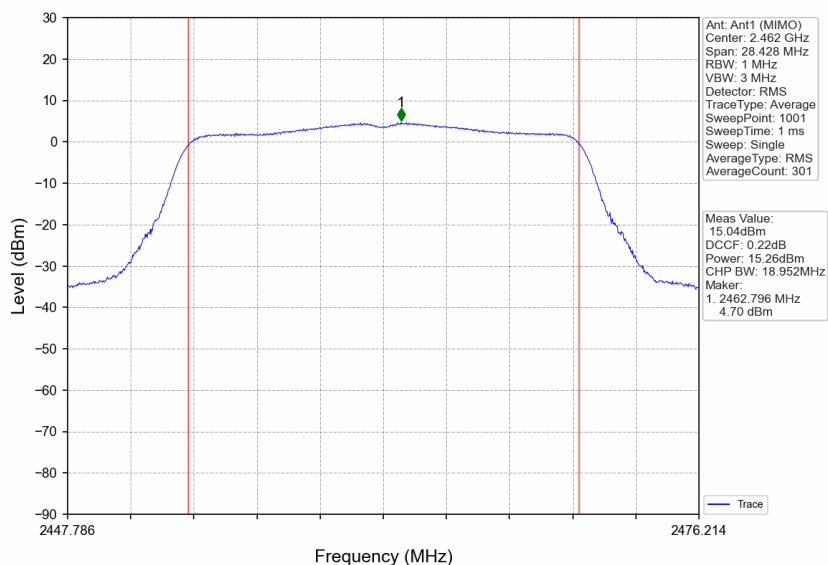
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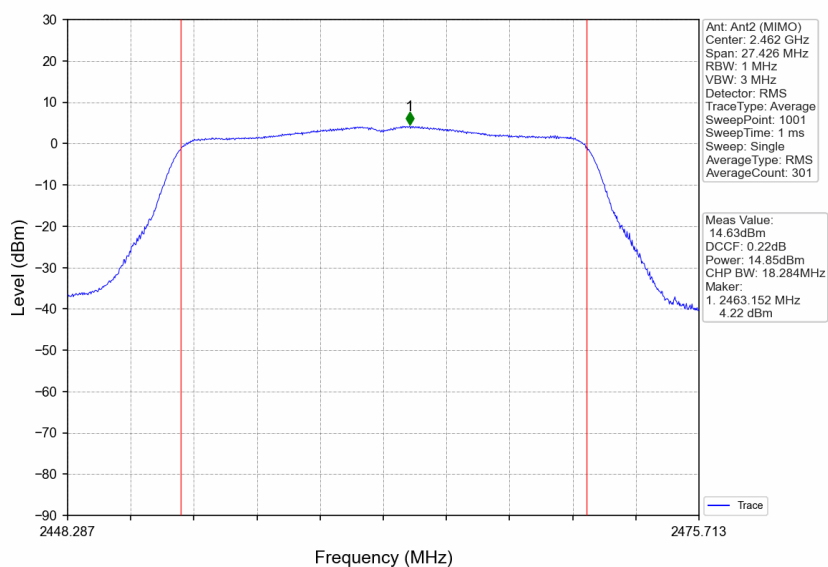
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802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTN



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	-4.08	-3.84	/	<=8	Pass
		2437	-4.48	-4.61	/	<=8	Pass
		2462	-4.37	-3.68	/	<=8	Pass
802.11g	SISO	2412	-7.44	-8.36	/	<=8	Pass
		2437	-8.05	-7.60	/	<=8	Pass
		2462	-7.91	-9.09	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-9.13	-9.64	-7.27	<=6.48	Pass
		2437	-8.83	-9.36	-7.18	<=6.48	Pass
		2462	-9.01	-10.04	-6.93	<=6.48	Pass

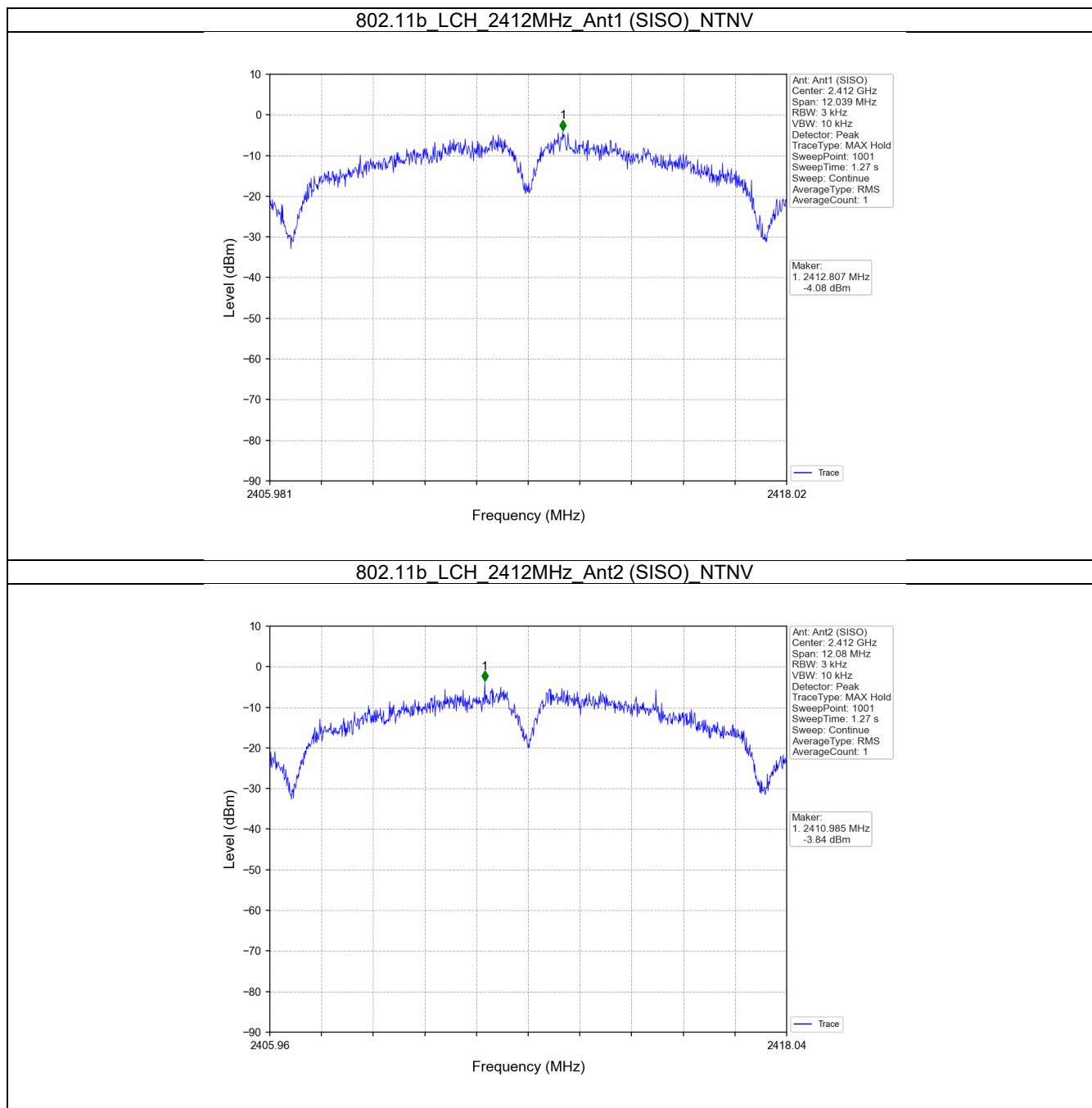
Note1: Antenna Gain: Ant1: 4.35dBi; Ant2: 4.67dBi;
Note2: Directional Gain: 7.52dBi



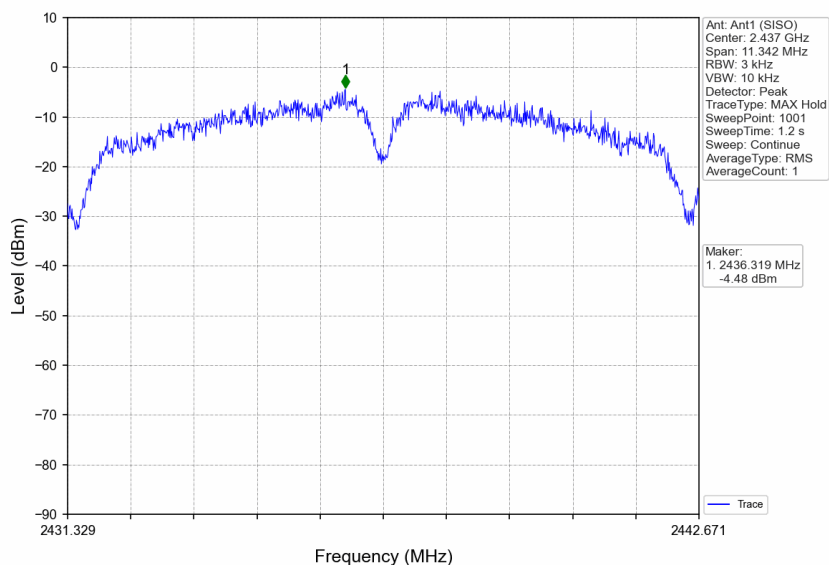
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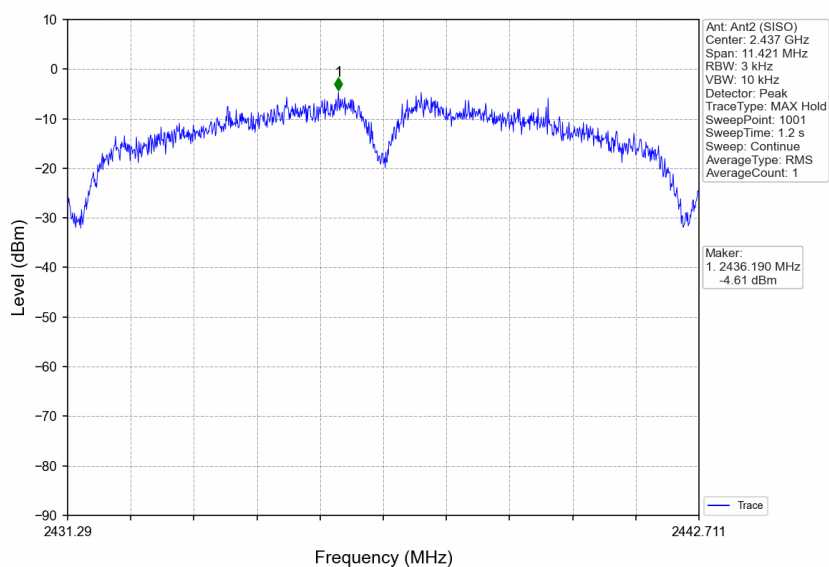
4.1.2 Test Graph



802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



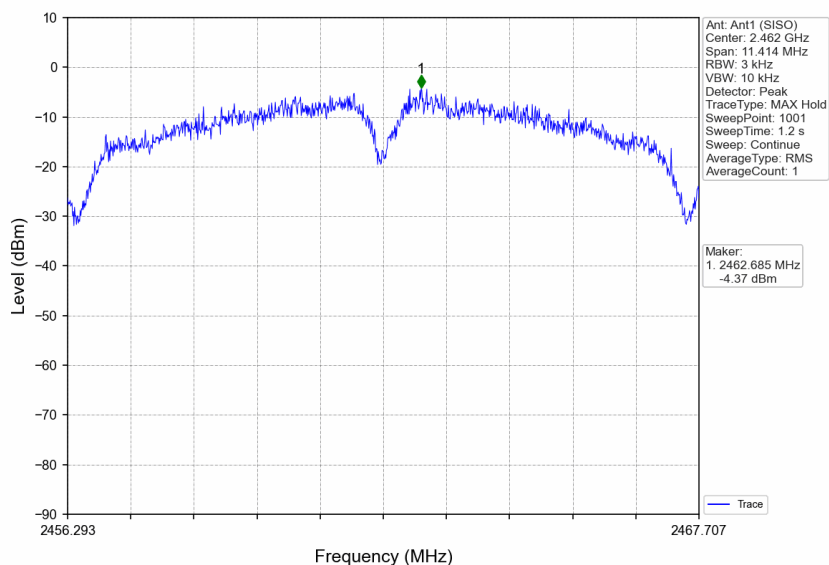
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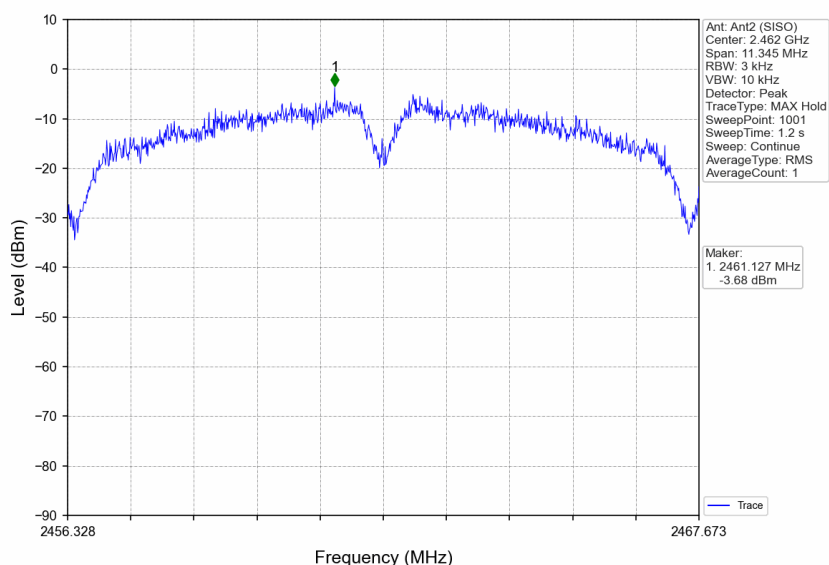
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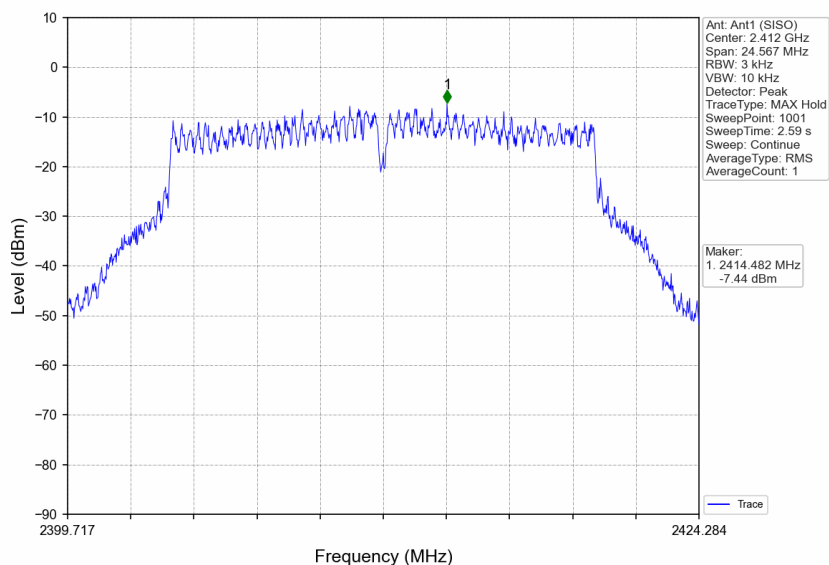
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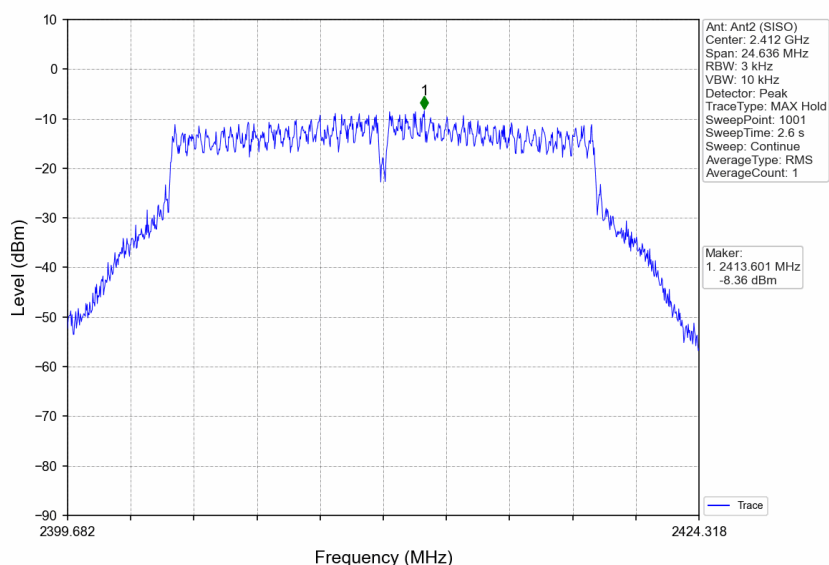
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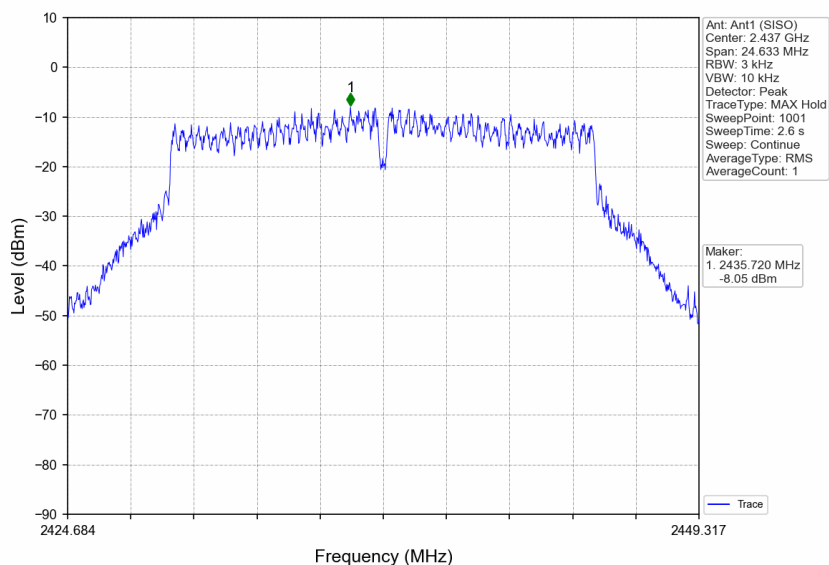
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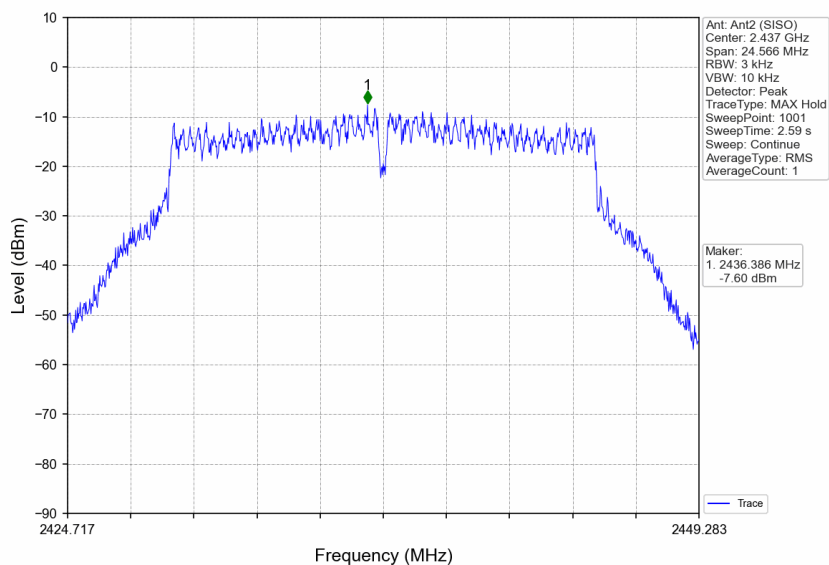
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802.11g MCH 2437MHz_Ant1 (SISO)_NTNV



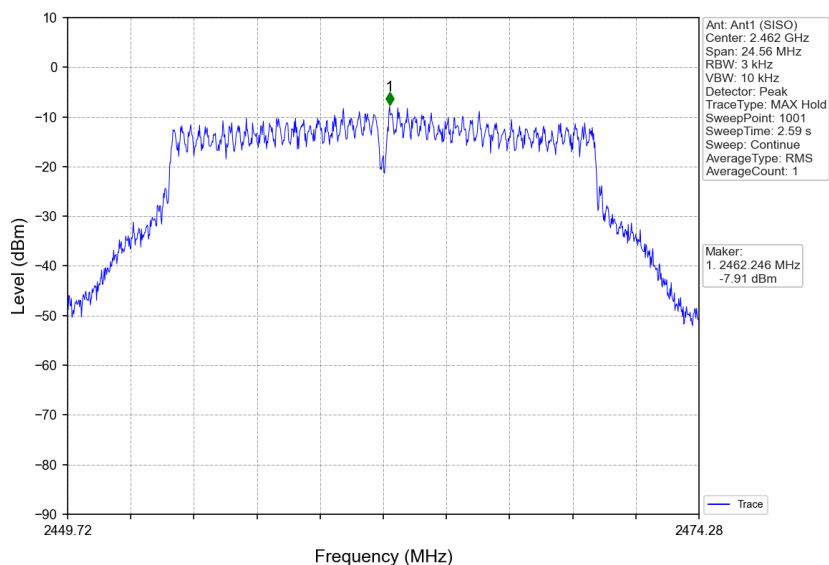
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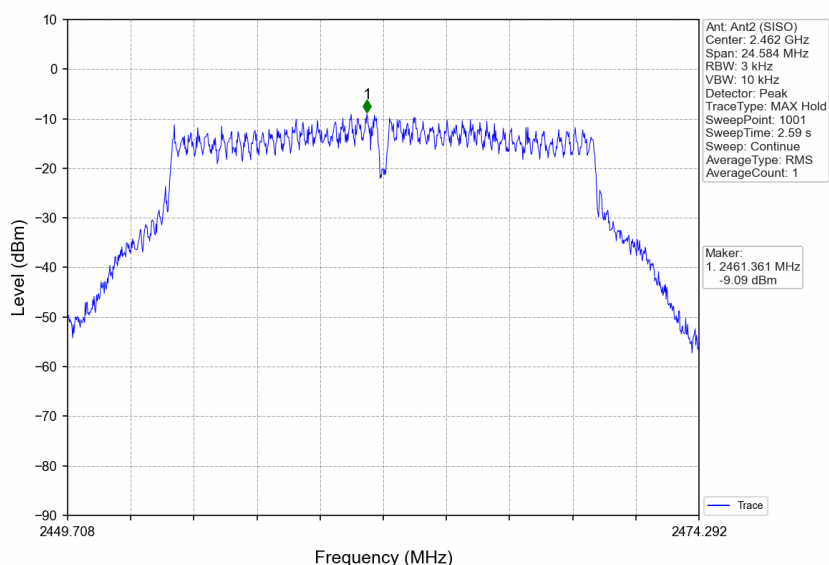
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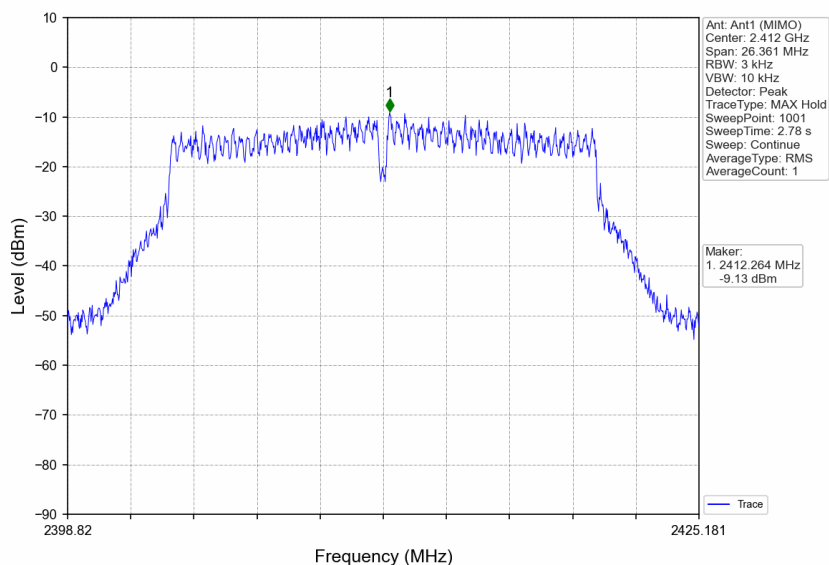
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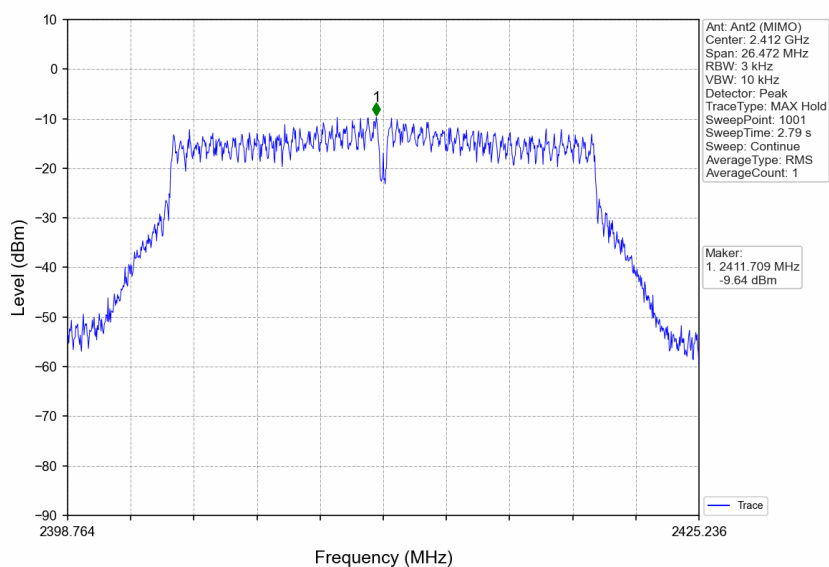
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



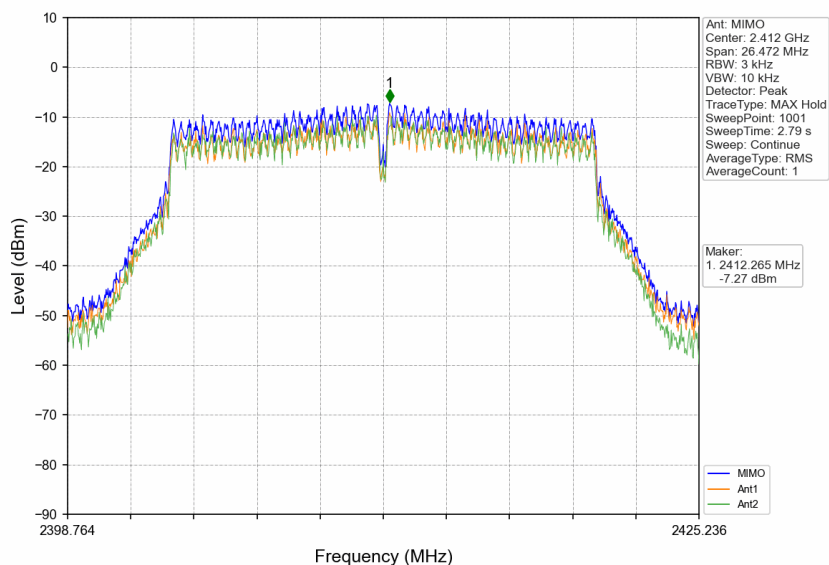
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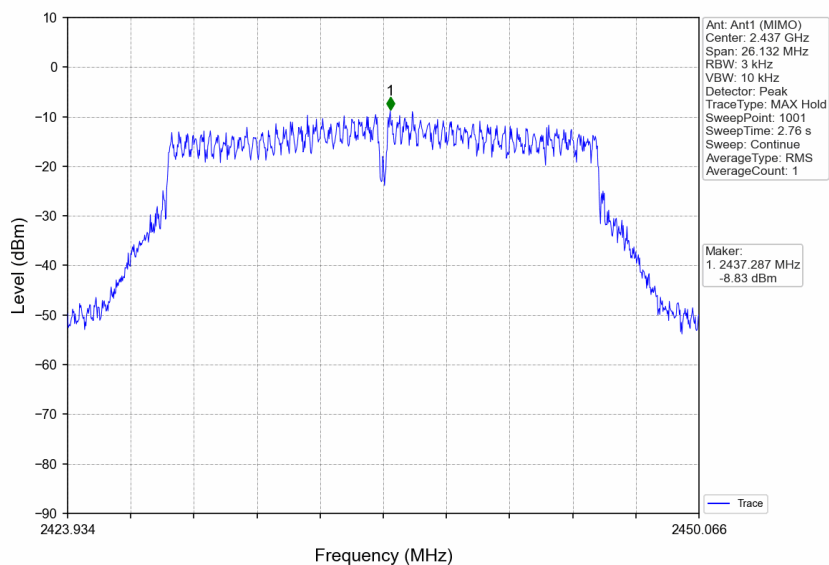
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802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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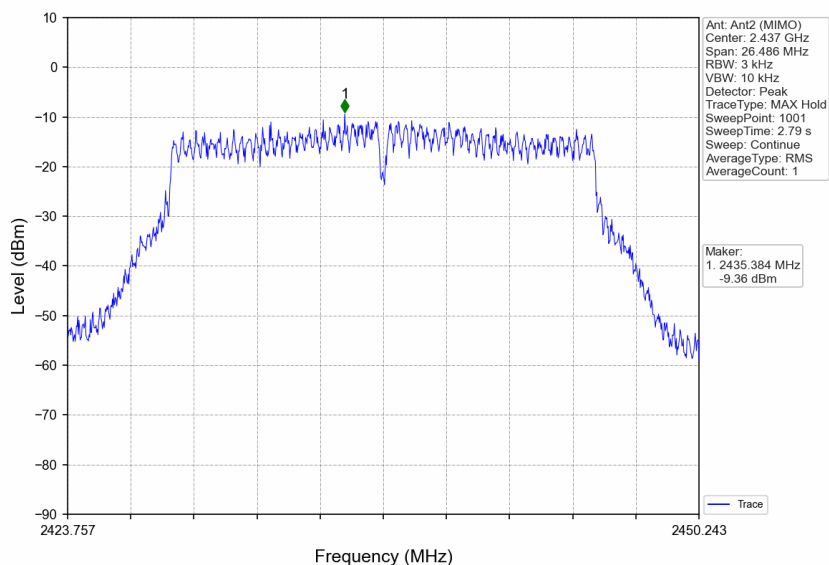
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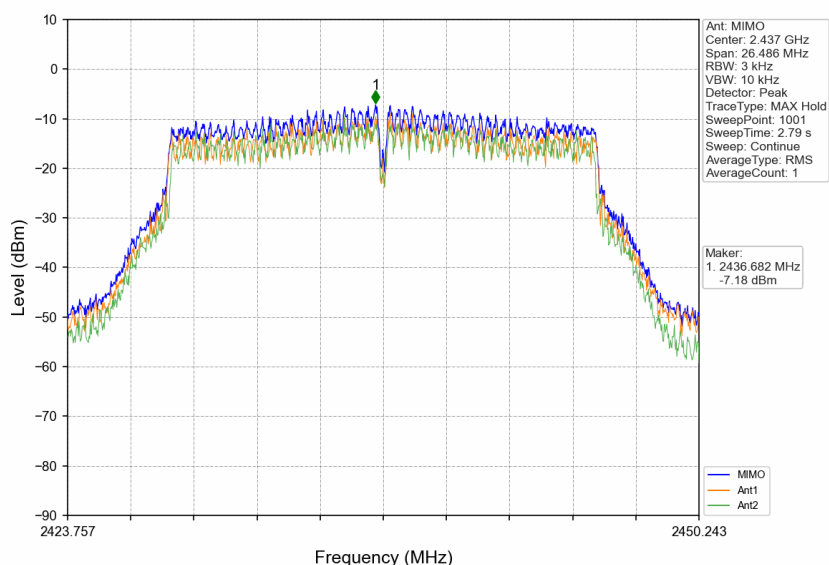
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802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO) NTN



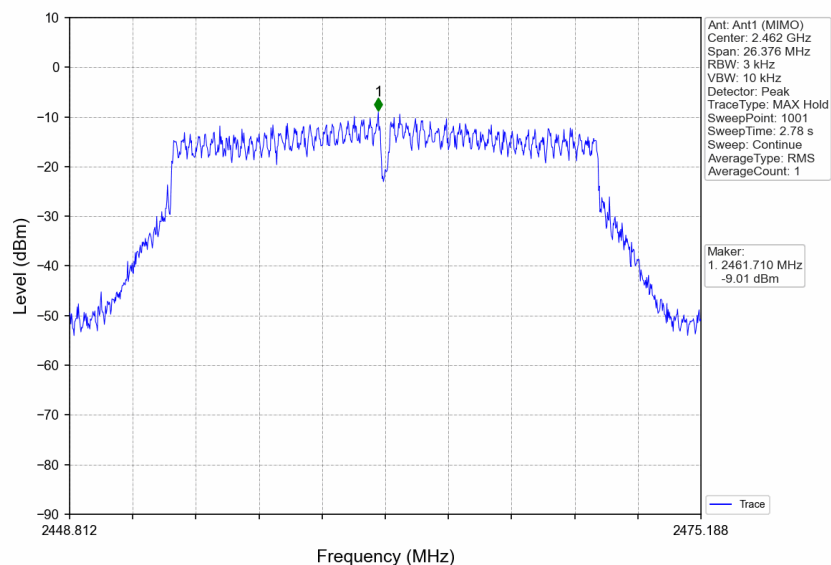
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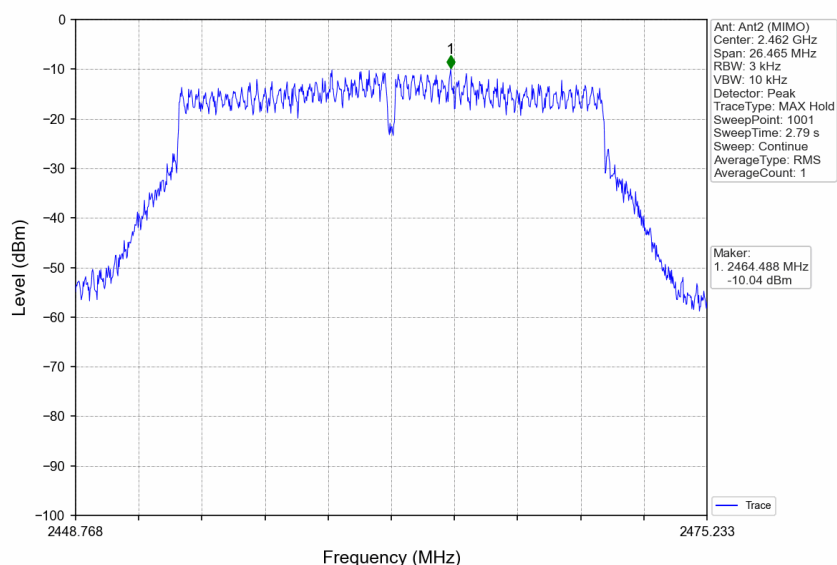
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



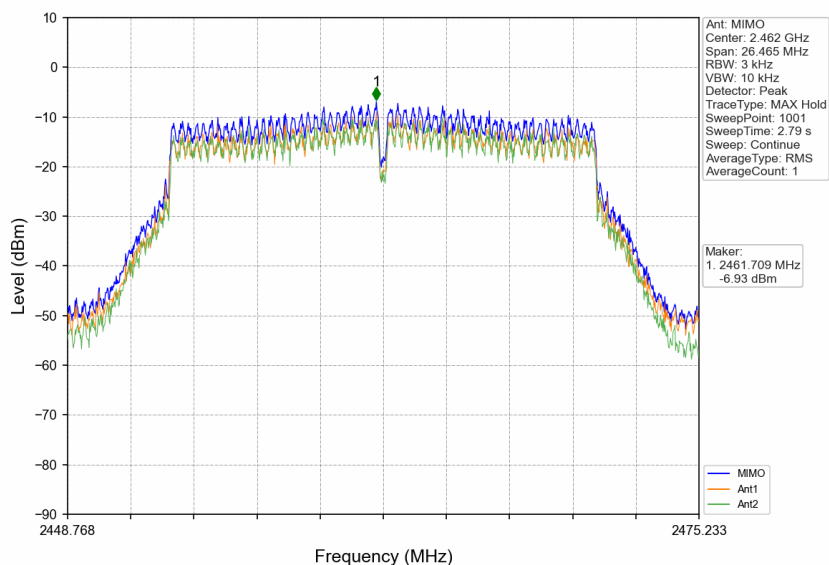
802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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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

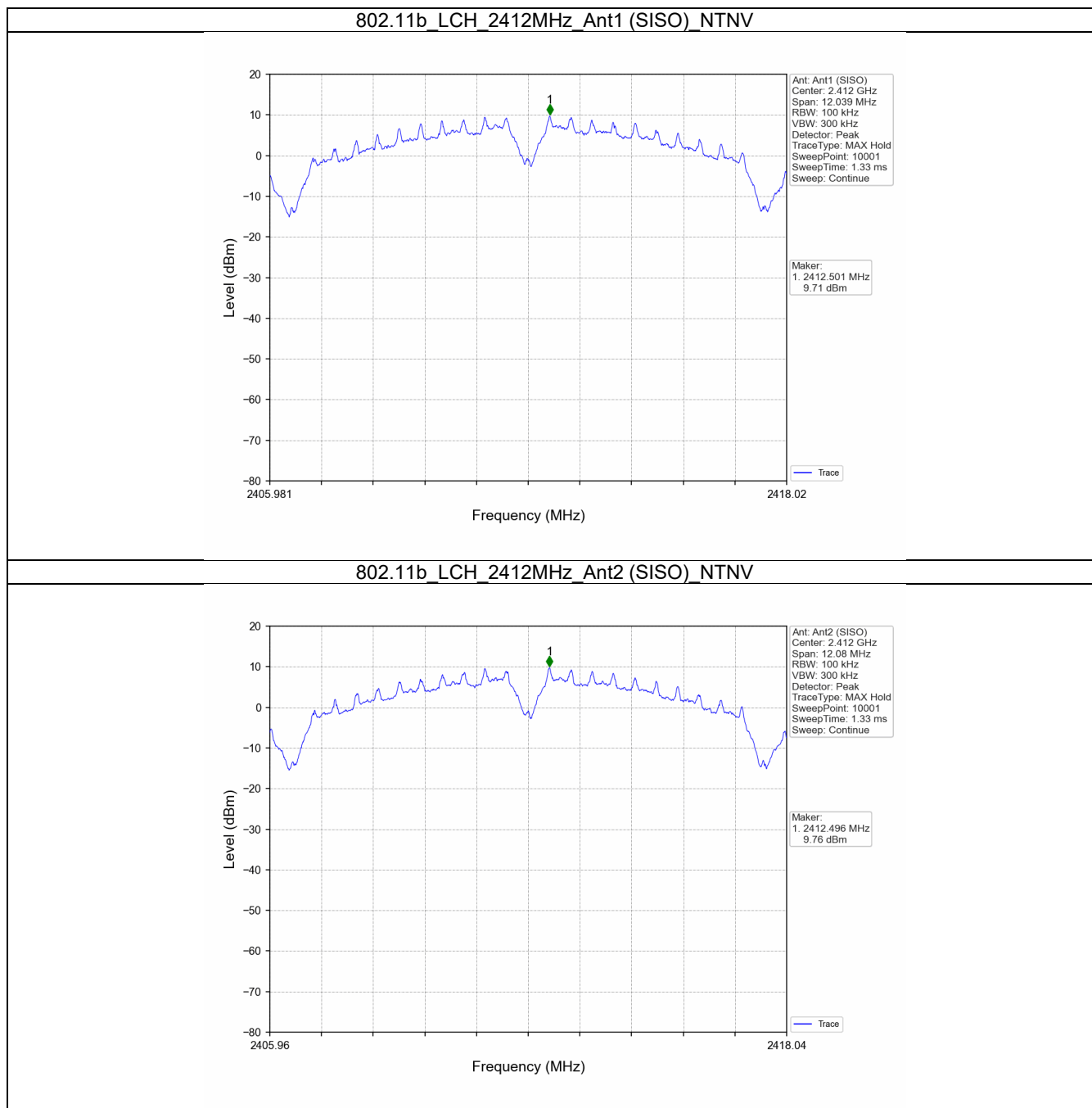
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	9.71
			2	9.76
		2437	1	10.04
			2	9.74
		2462	1	9.79
			2	9.32
802.11g	SISO	2412	1	5.19
			2	4.27
		2437	1	5.30
			2	4.44
		2462	1	4.78
			2	3.38
802.11n (HT20)	MIMO	2412	1	4.19
			2	3.51
		2437	1	3.87
			2	3.08
		2462	1	3.79
			2	3.01

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.



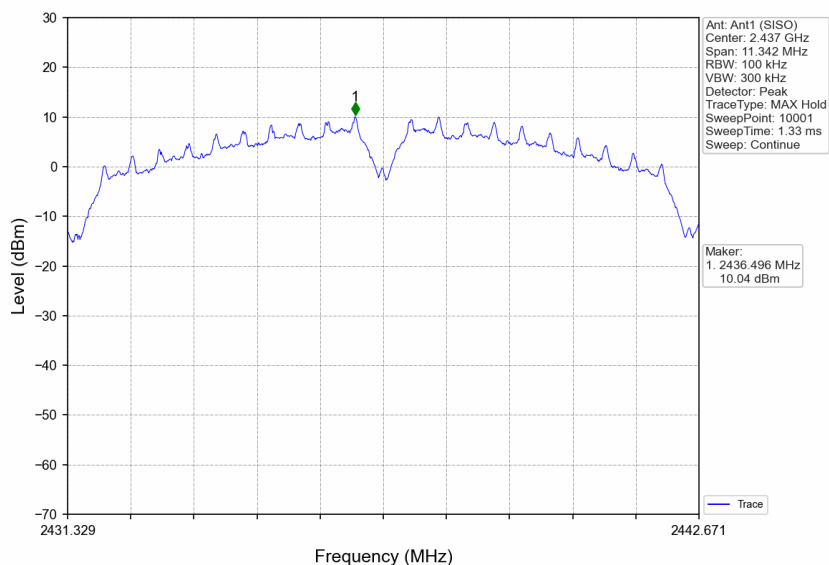
5.1.2 Test Graph



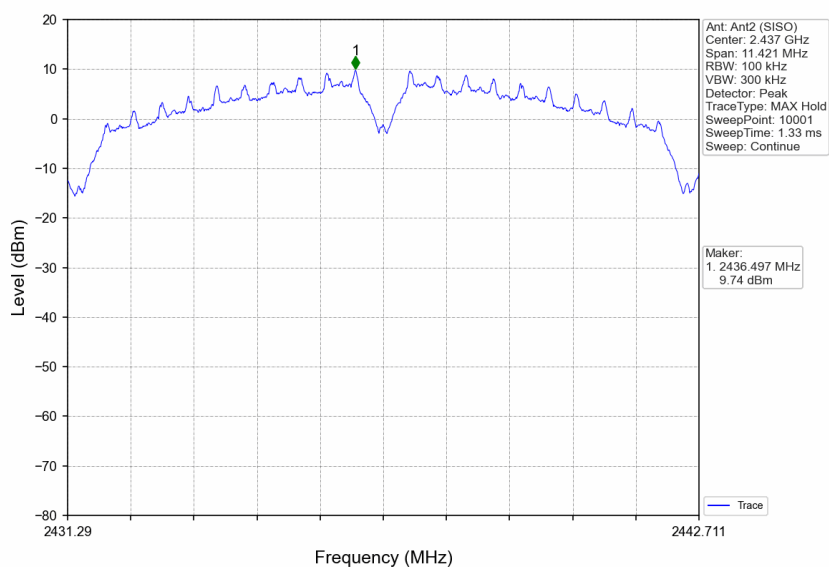
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802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



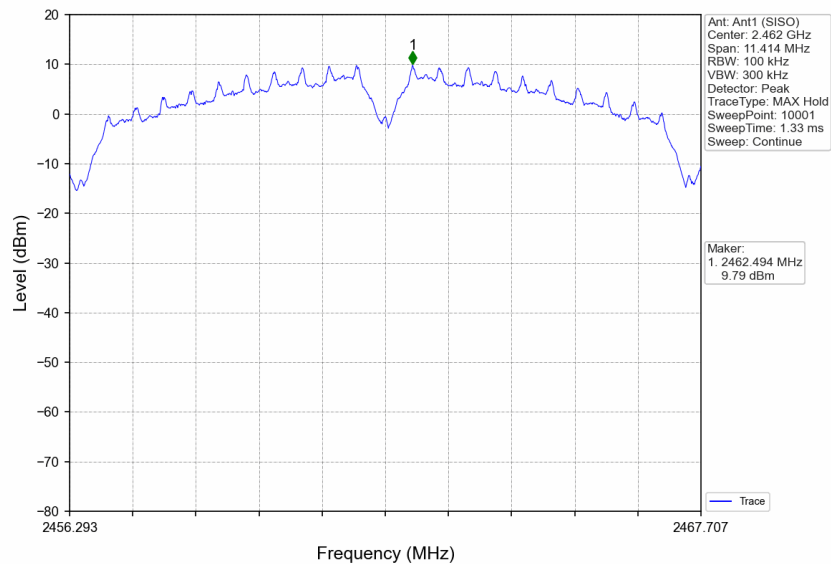
802.11b MCH 2437MHz_Ant2 (SISO)_NTNV



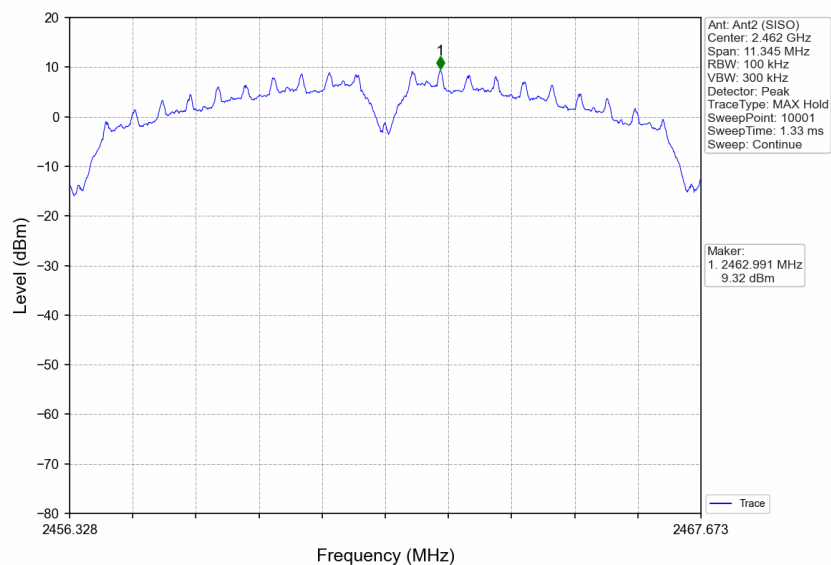
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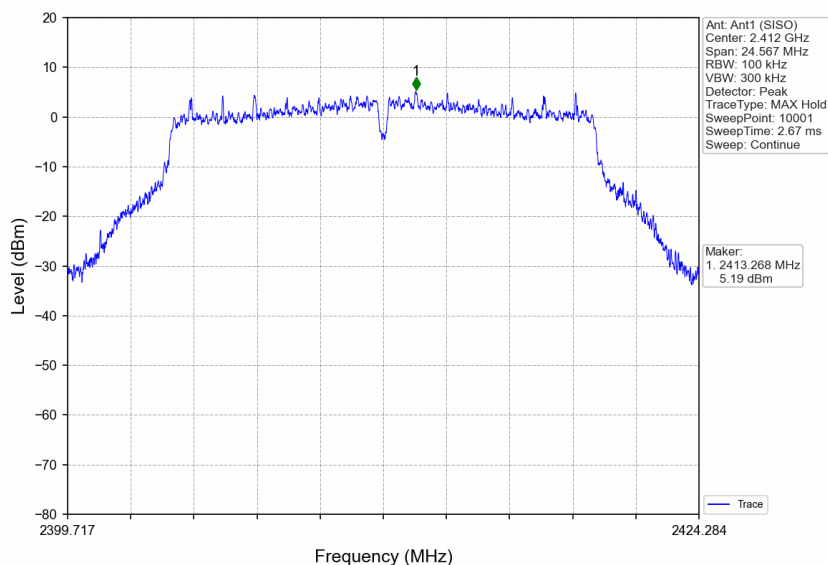
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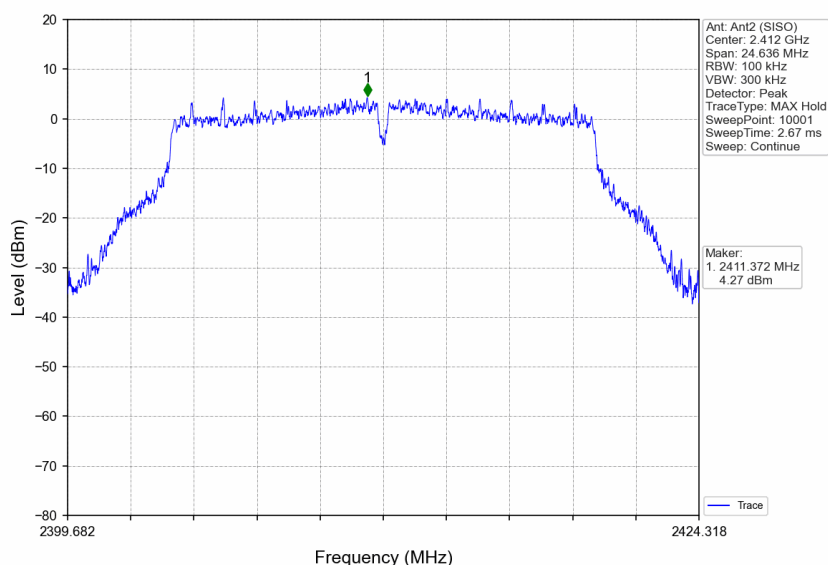
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



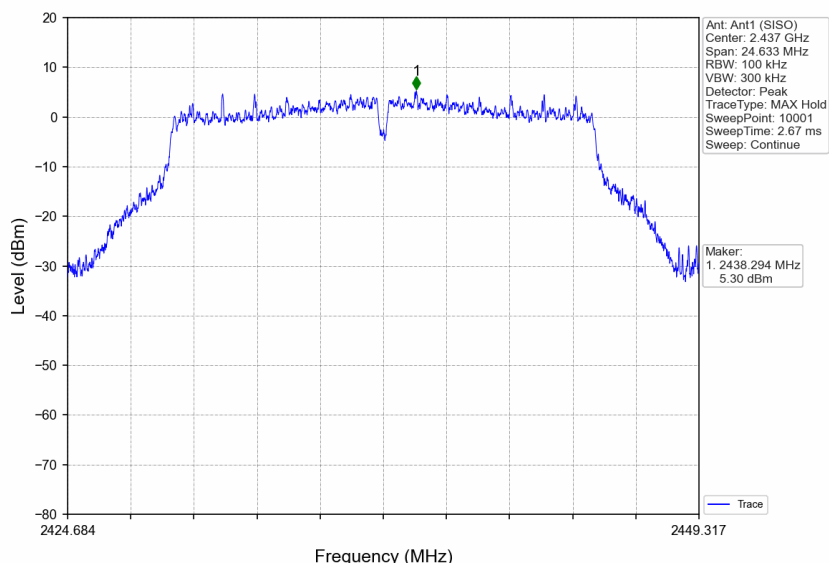
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



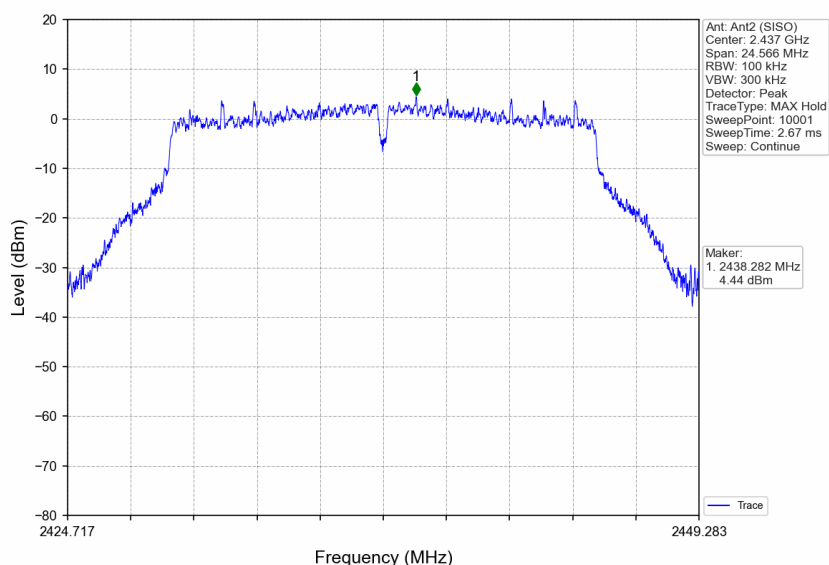
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



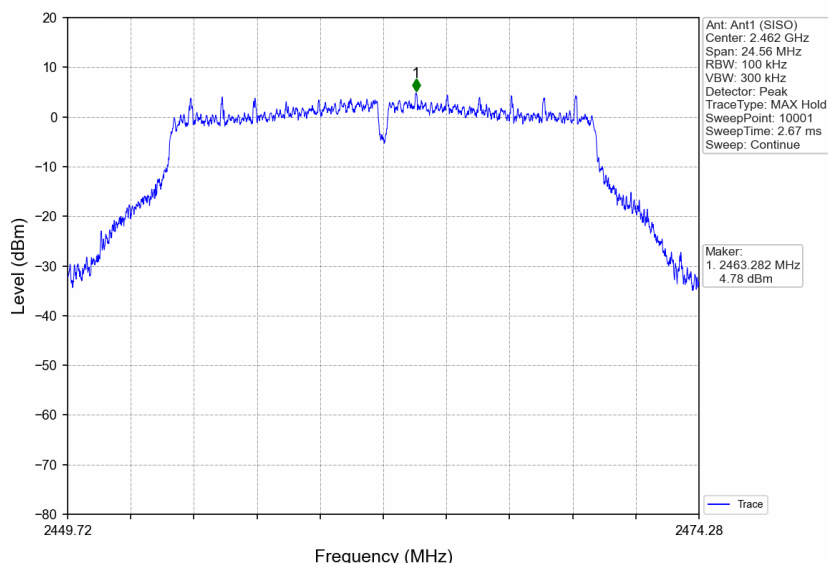
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



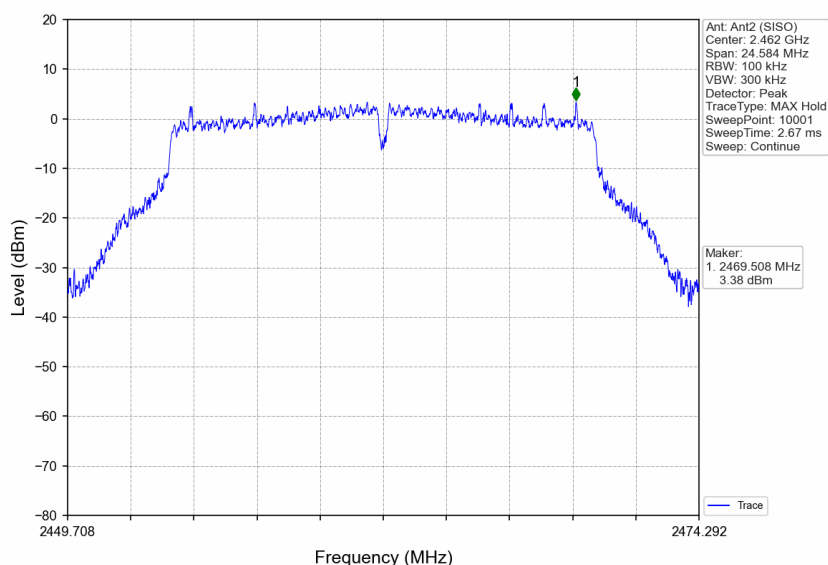
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



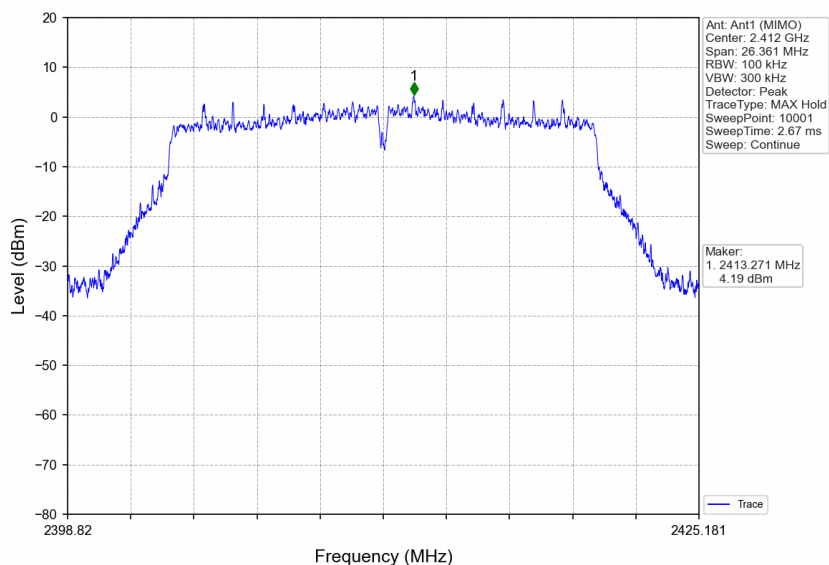
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



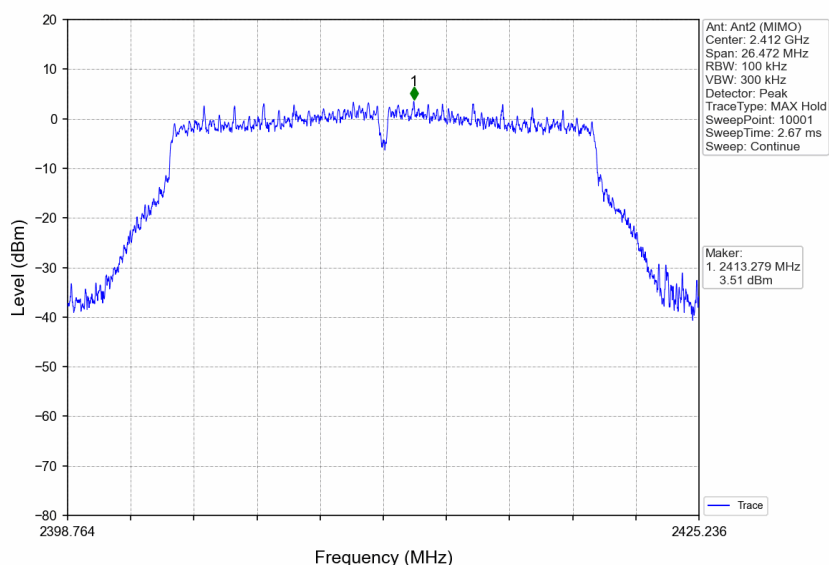
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



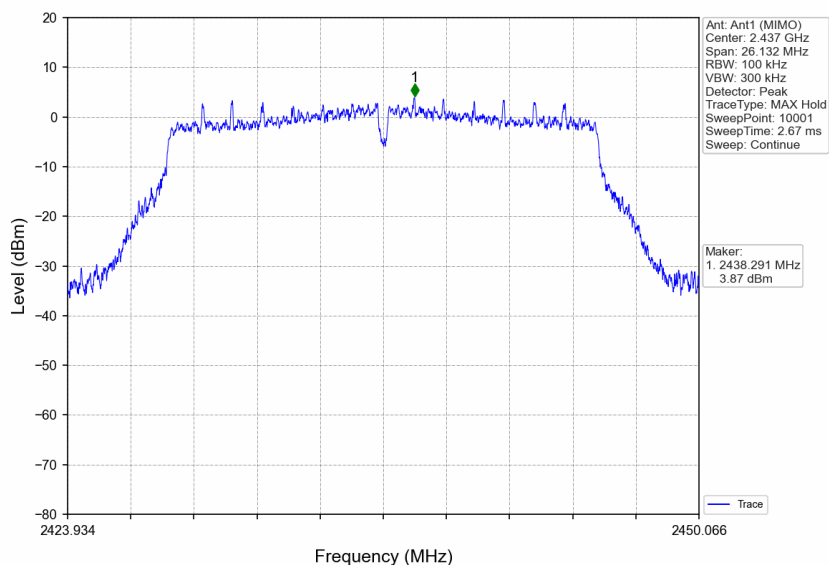
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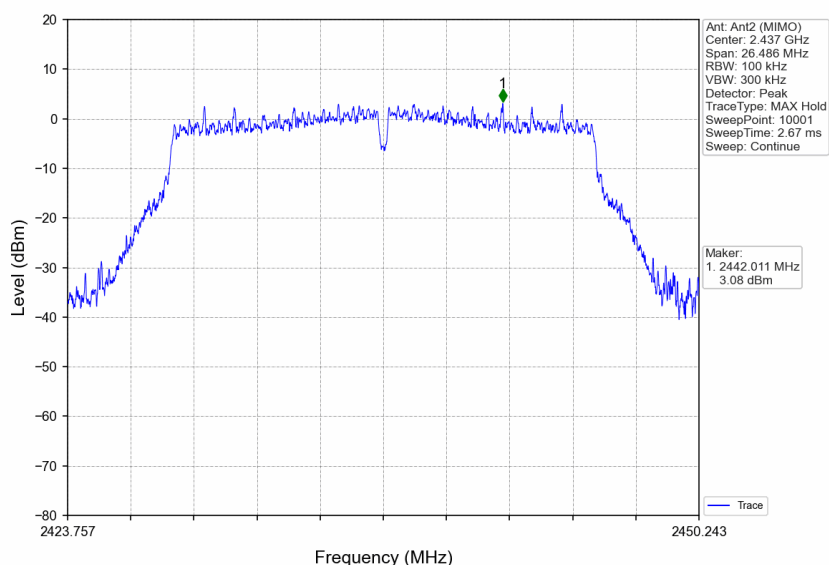
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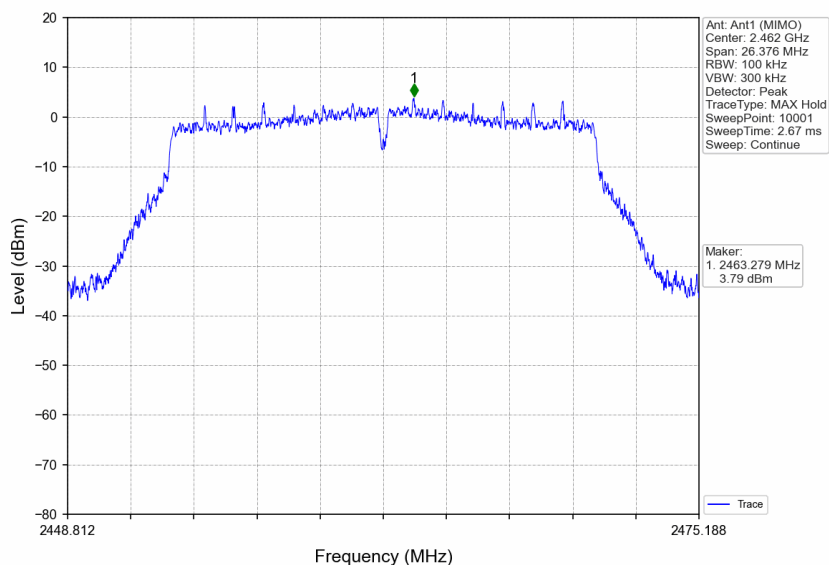
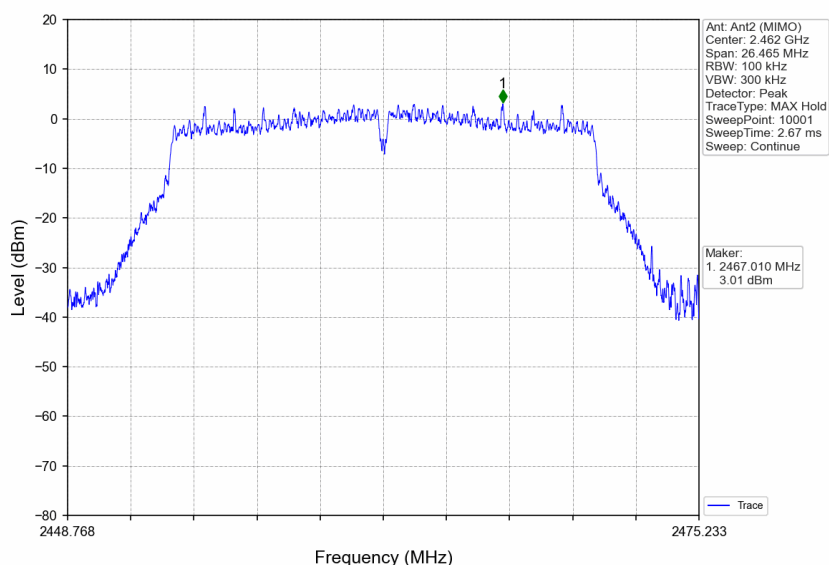
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



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

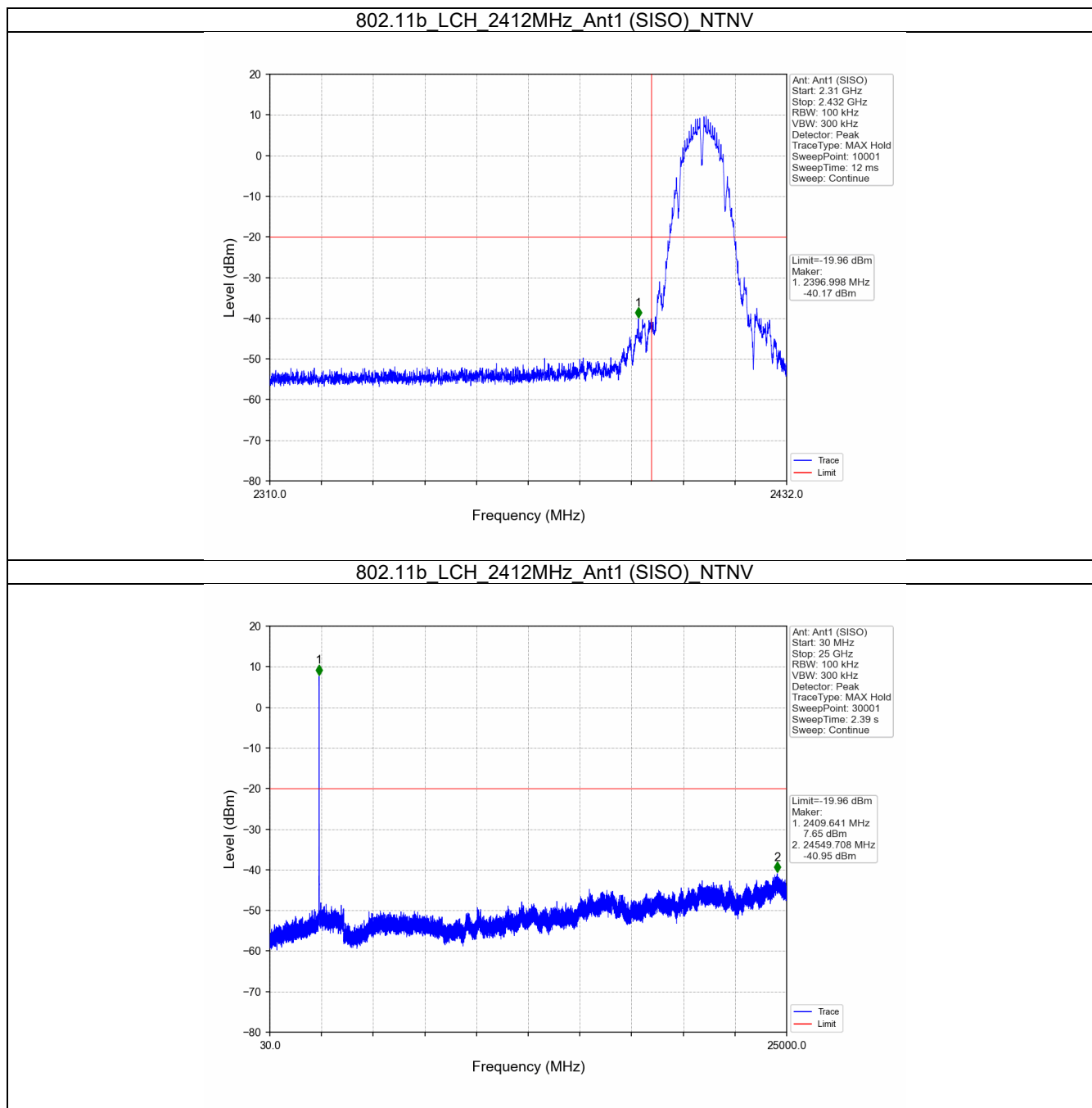
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	10.04	-19.96	Pass
			2	9.76	-20.24	Pass
		2437	1	10.04	-19.96	Pass
			2	9.76	-20.24	Pass
		2462	1	10.04	-19.96	Pass
			2	9.76	-20.24	Pass
802.11g	SISO	2412	1	5.30	-24.70	Pass
			2	4.44	-25.56	Pass
		2437	1	5.30	-24.70	Pass
			2	4.44	-25.56	Pass
		2462	1	5.30	-24.70	Pass
			2	4.44	-25.56	Pass
802.11n (HT20)	MIMO	2412	1	4.19	-25.81	Pass
			2	3.51	-26.49	Pass
		2437	1	4.19	-25.81	Pass
			2	3.51	-26.49	Pass
		2462	1	4.19	-25.81	Pass
			2	3.51	-26.49	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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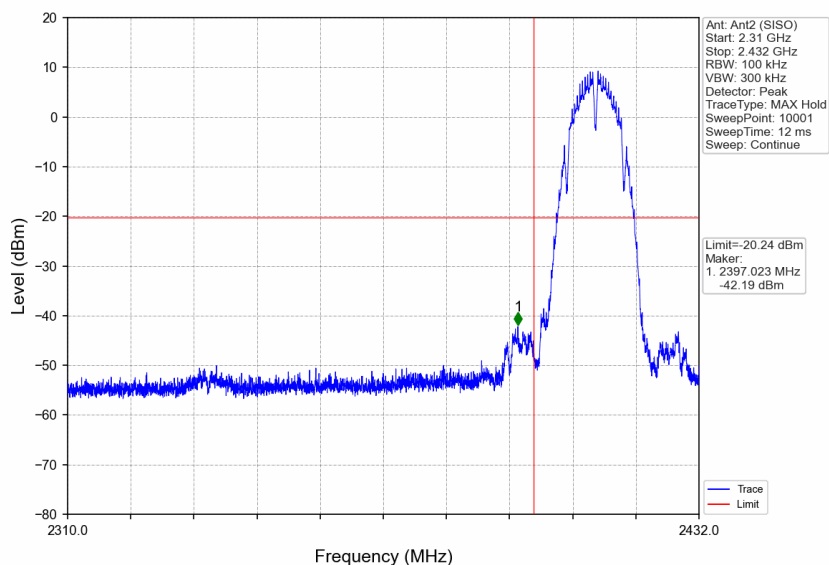
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Testing Center EMC (E88100)

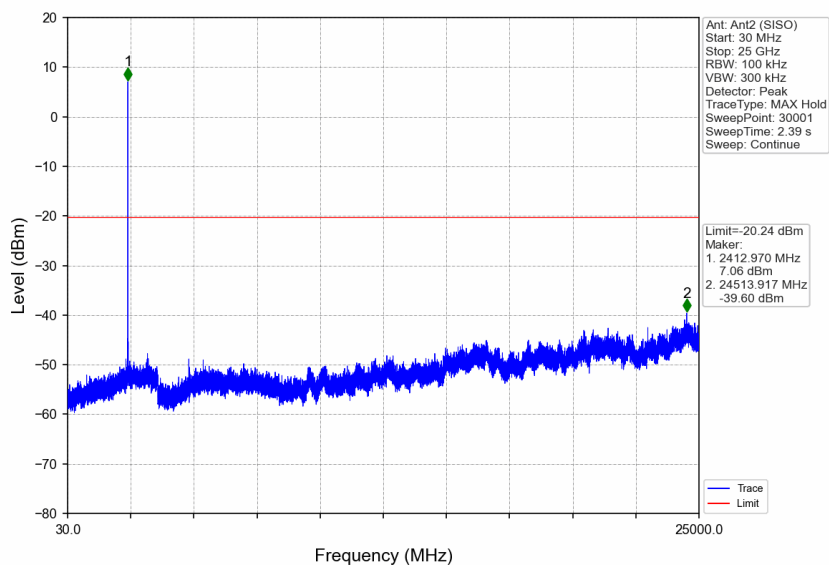
NO. 588 West Jindu Road, Songjiang District, Shanghai, China 201612
中国·上海·松江区金都西路588号 邮编: 201612

t(86-21) 61915666 f(86-21) 61915678 www.sgs.com.cn
t(86-21) 61915666 f(86-21) 61915678 e.sgs.china@sgs.com

802.11b LCH 2412MHz_Ant2 (SISO)_NTNV



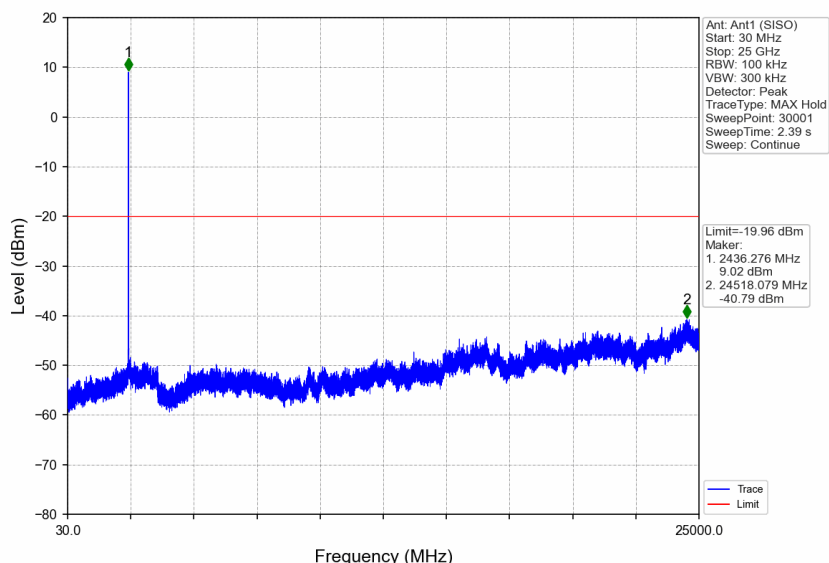
802.11b LCH 2412MHz_Ant2 (SISO)_NTNV



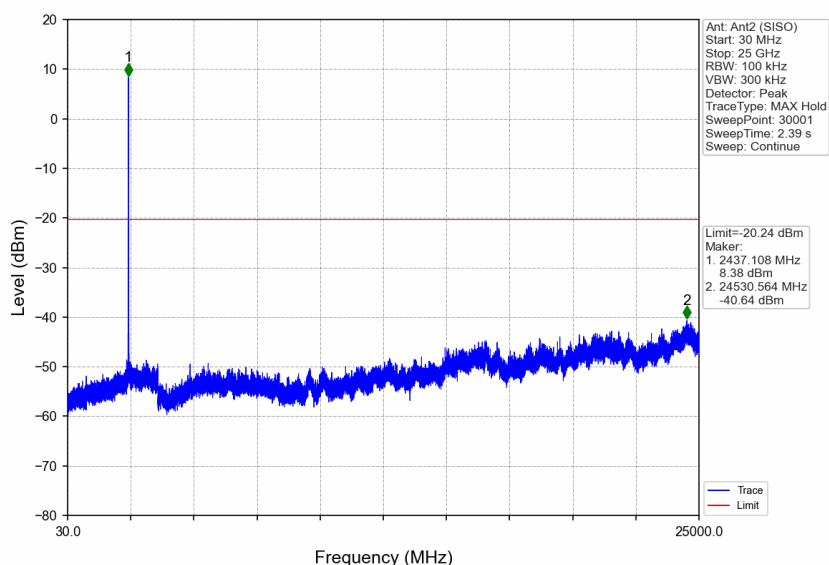
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802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



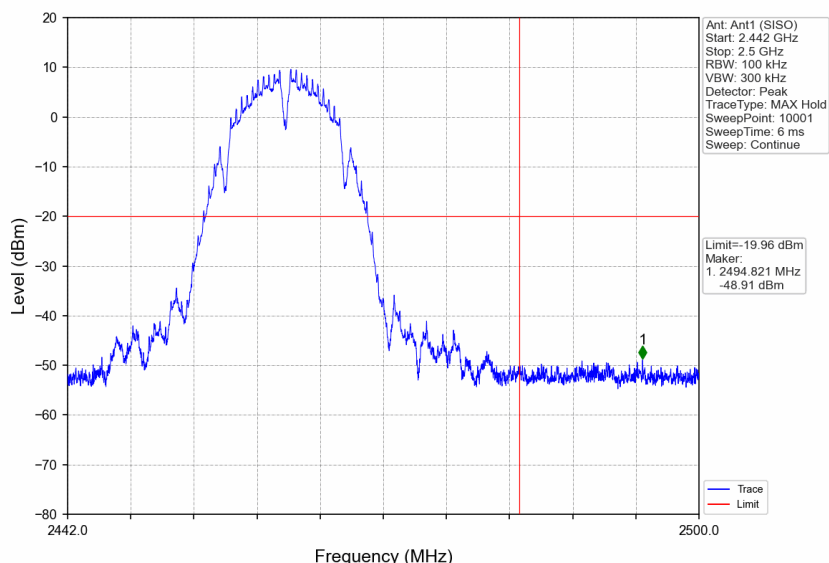
802.11b MCH 2437MHz_Ant2 (SISO)_NTNV



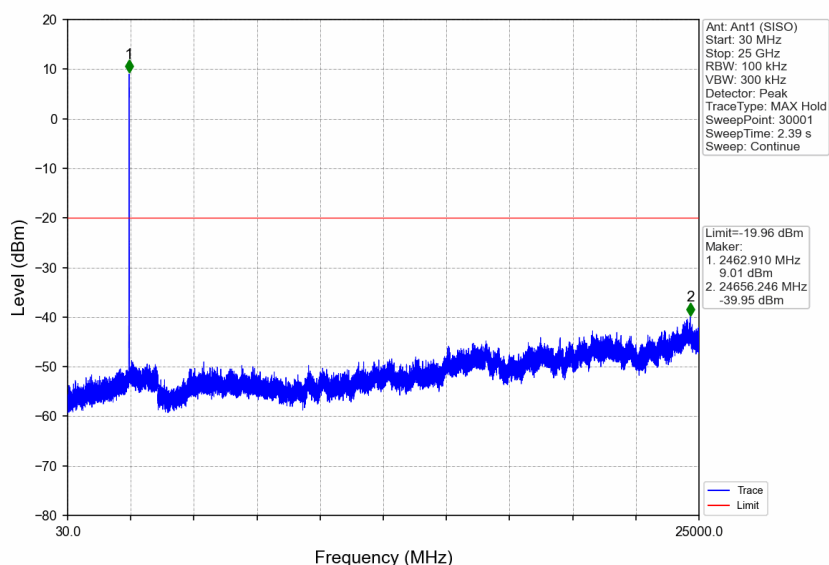
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



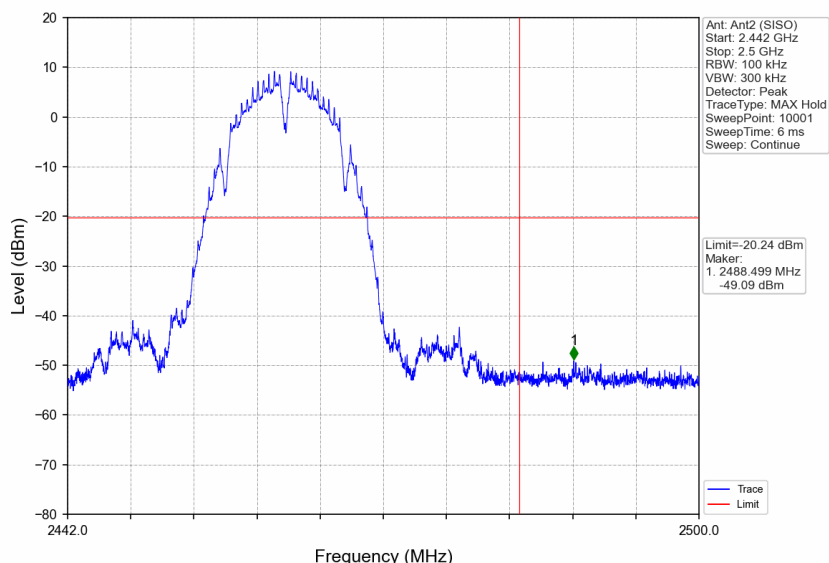
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



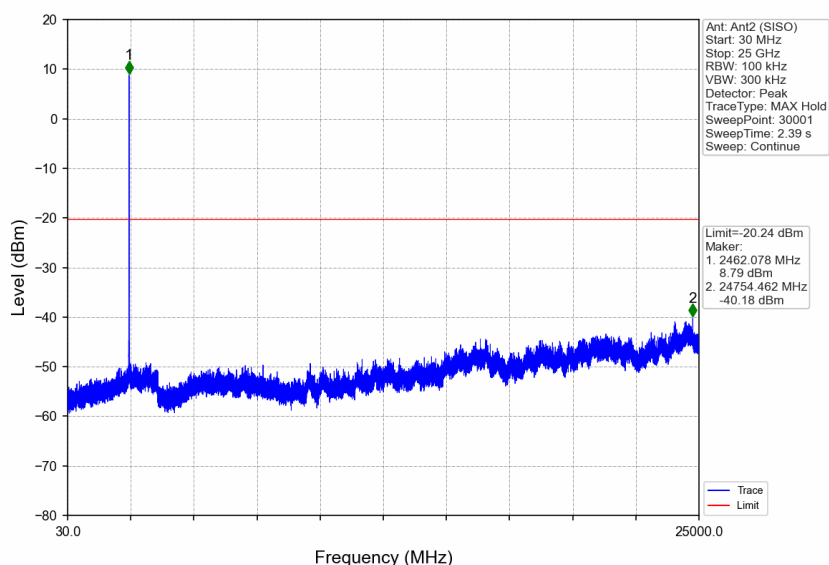
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



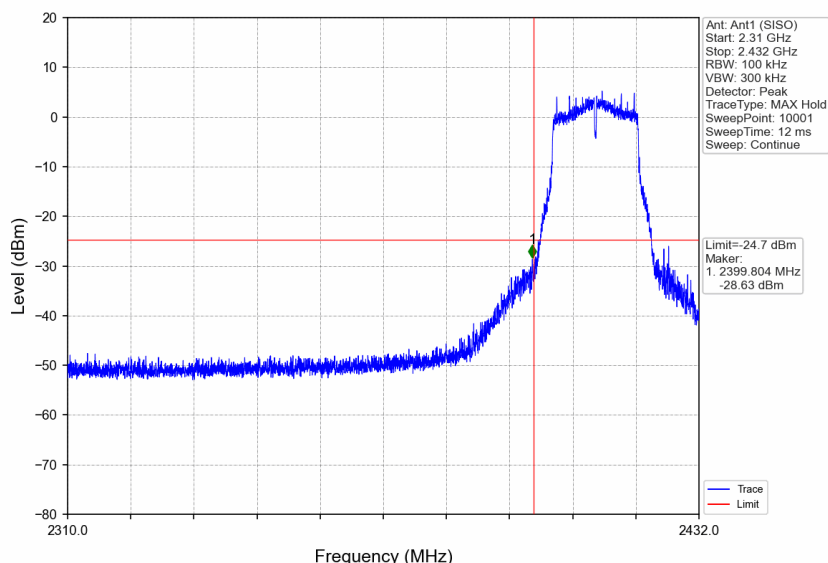
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



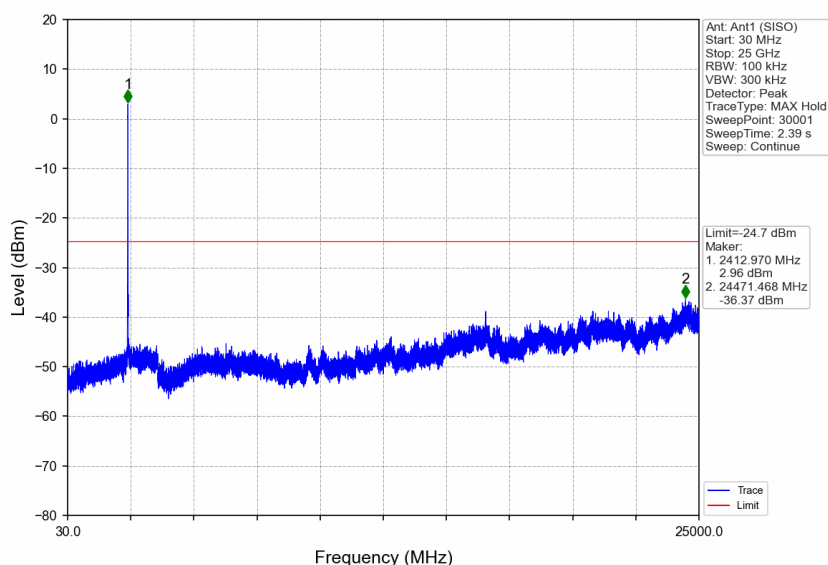
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802.11g LCH 2412MHz_Ant1 (SISO) NTN



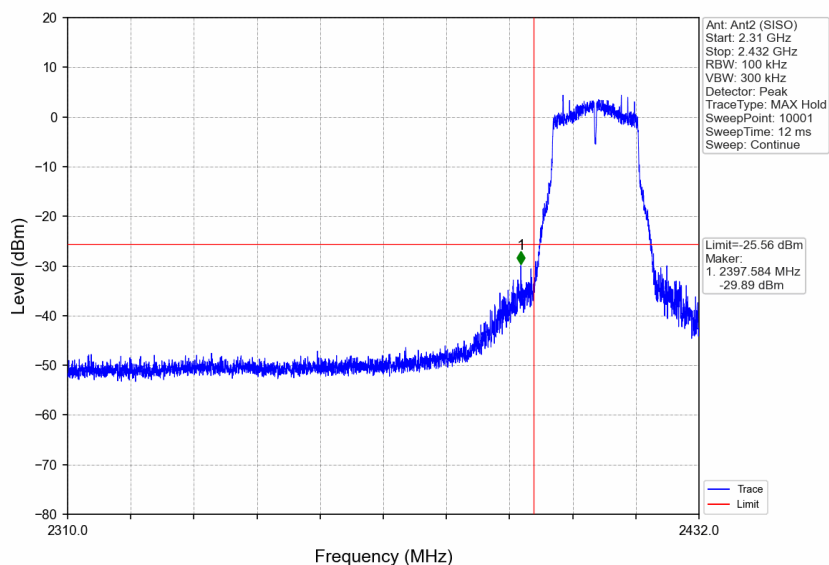
802.11g LCH 2412MHz_Ant1 (SISO) NTN



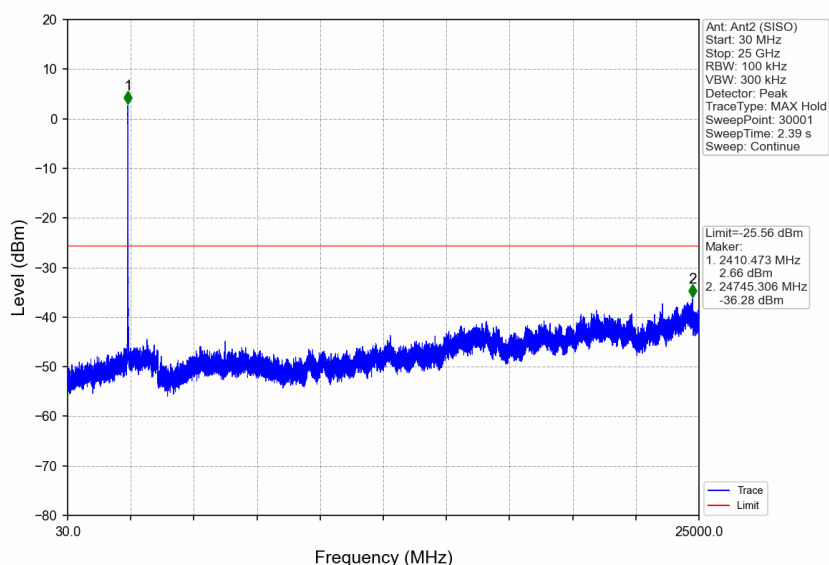
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802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



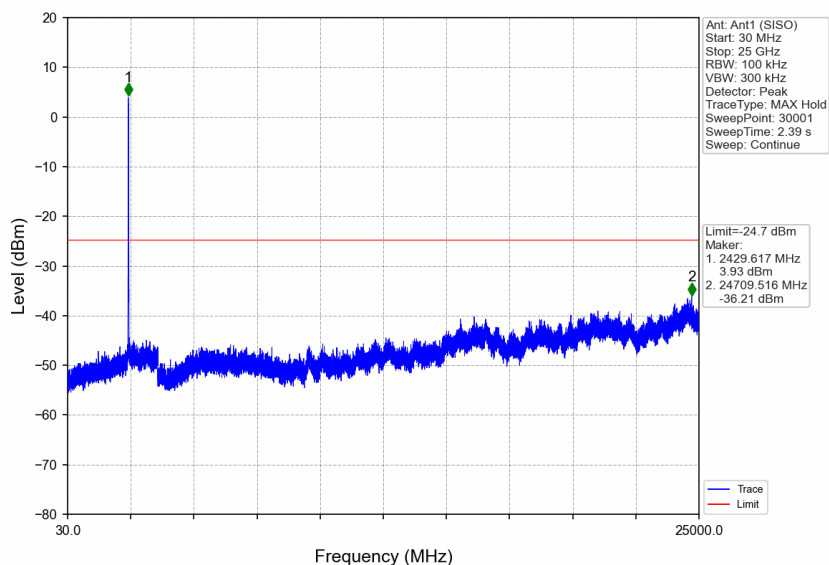
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



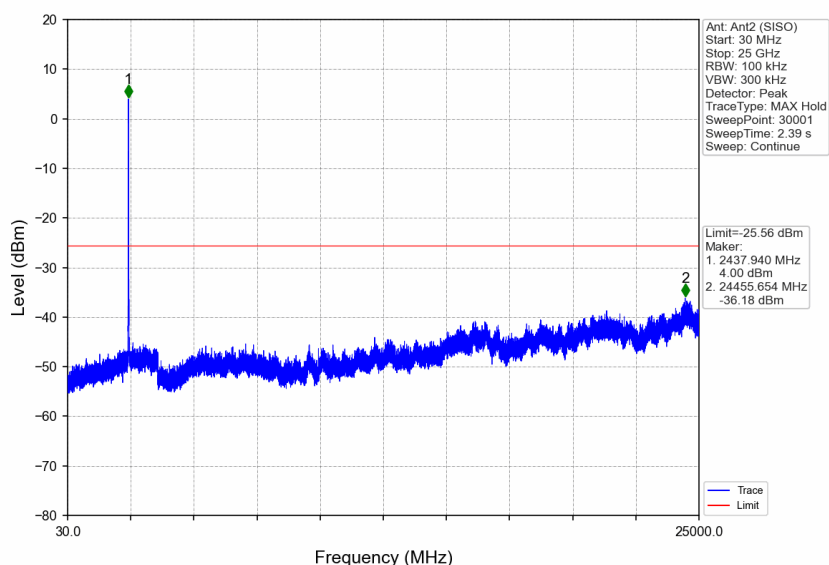
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



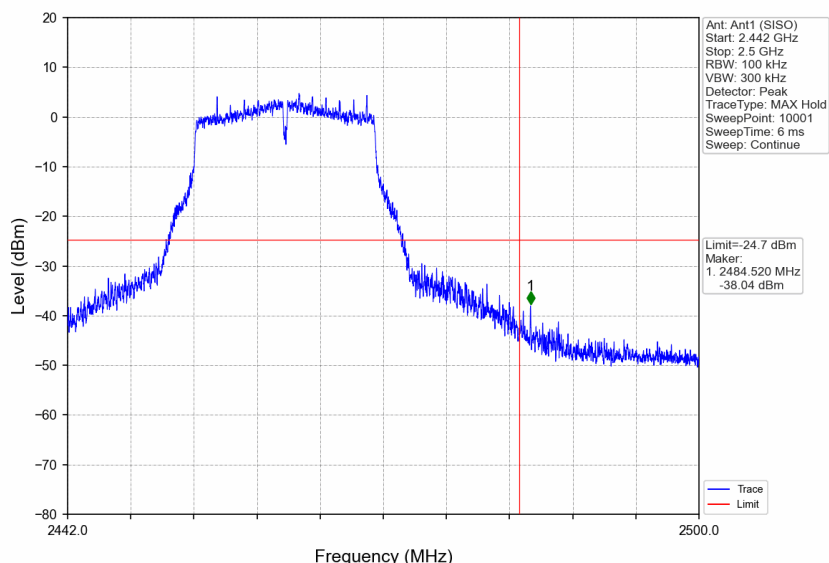
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



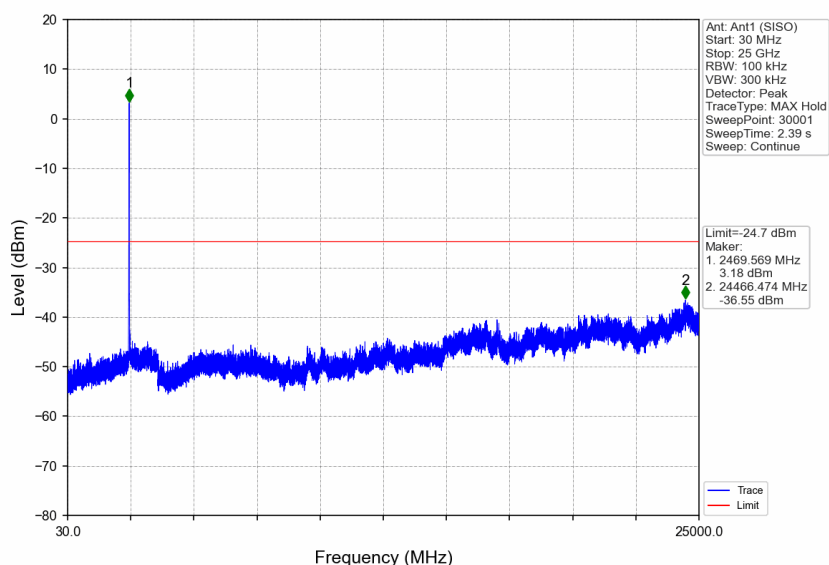
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



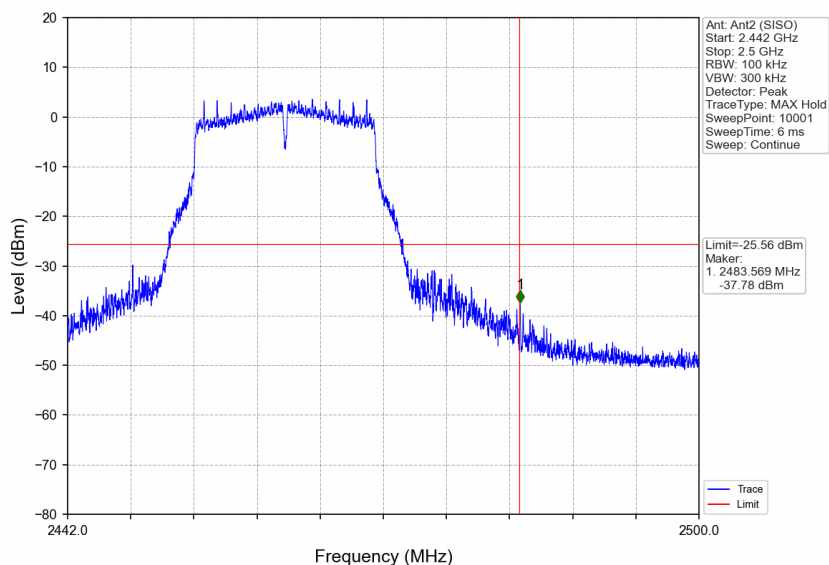
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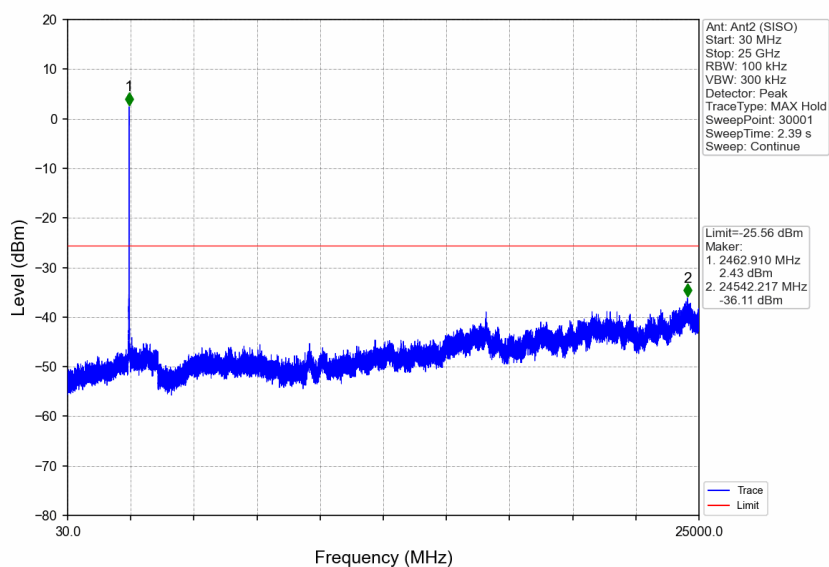
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802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



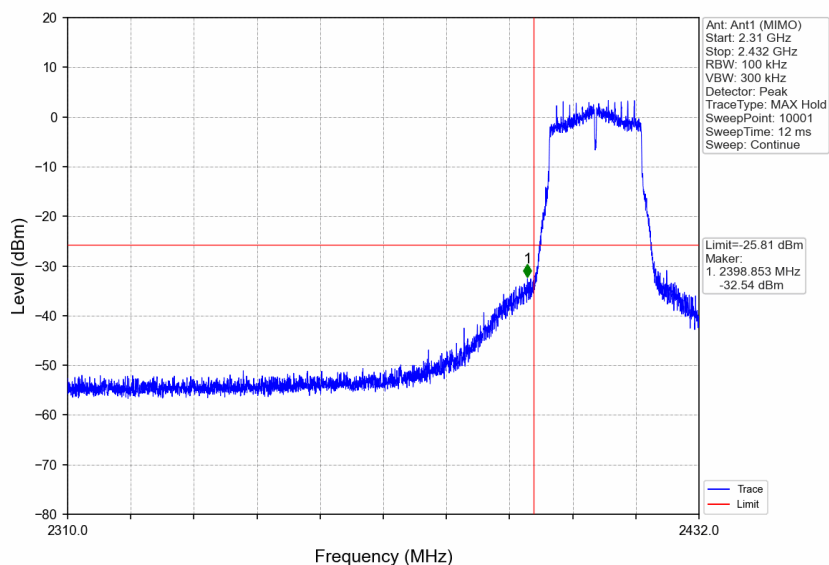
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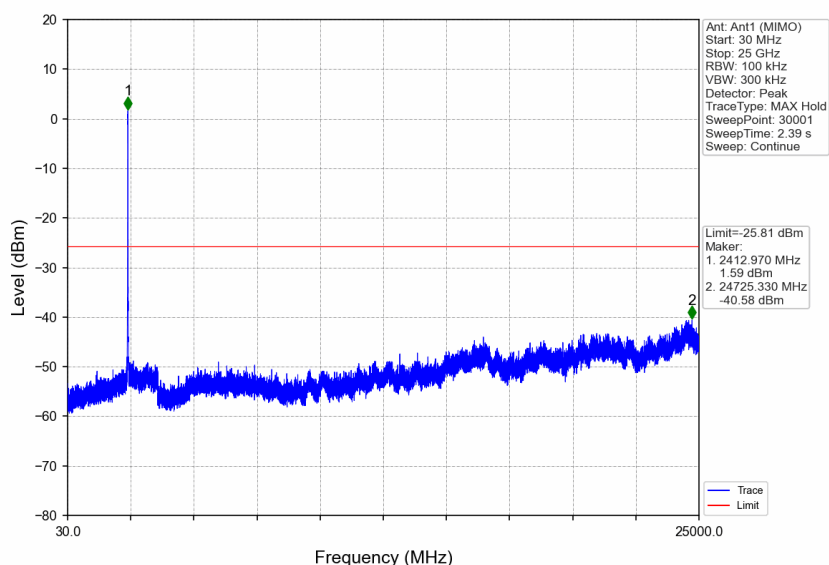
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



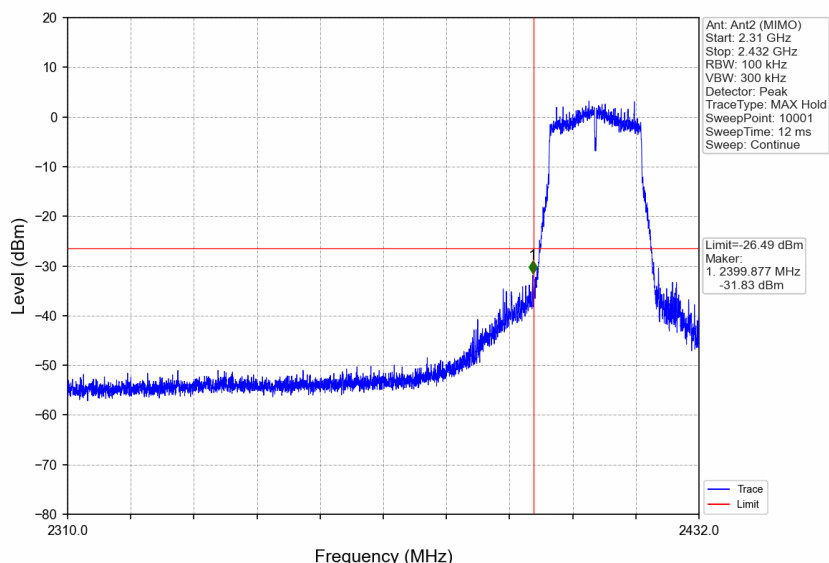
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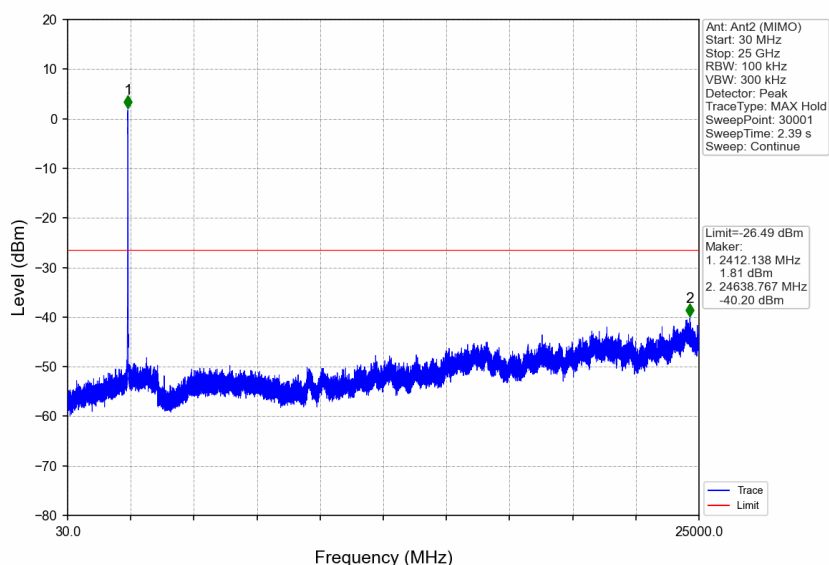
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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



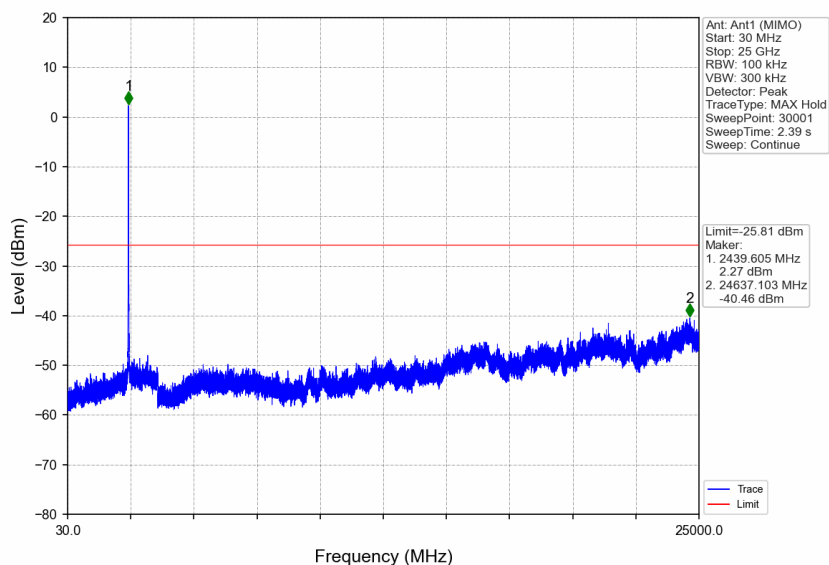
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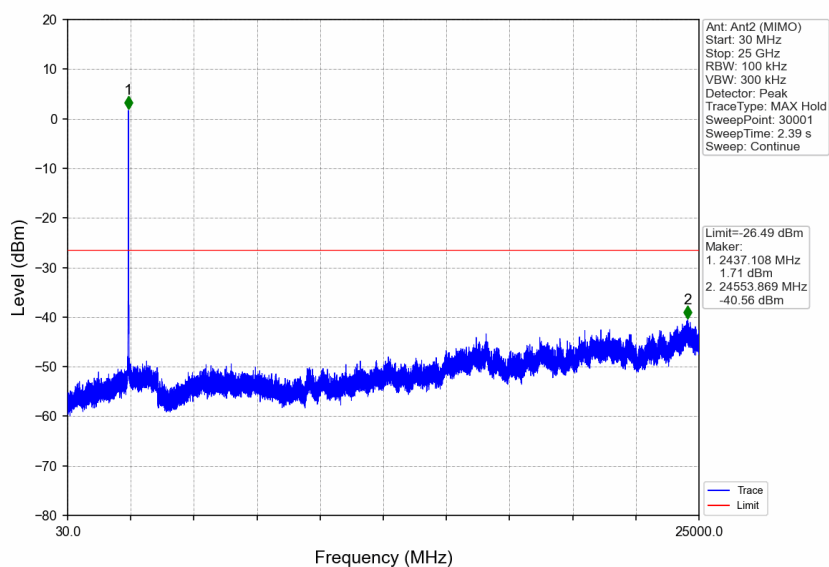
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



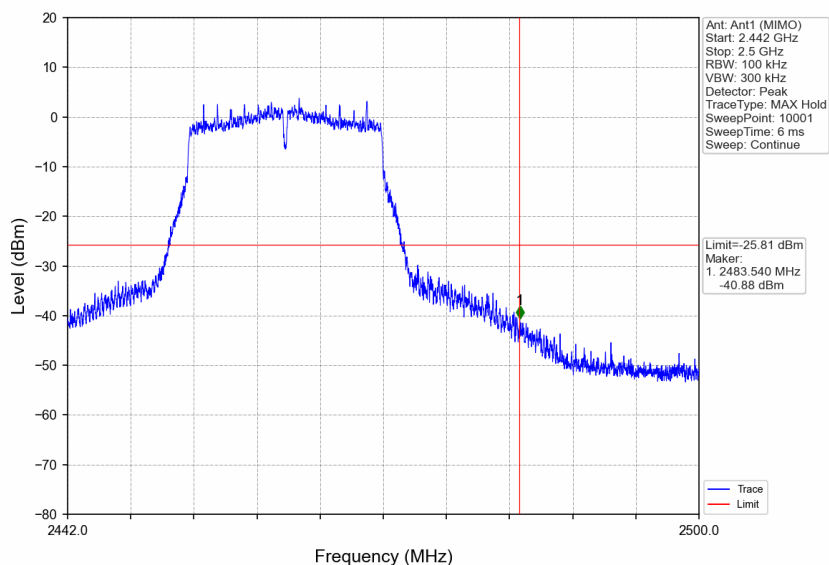
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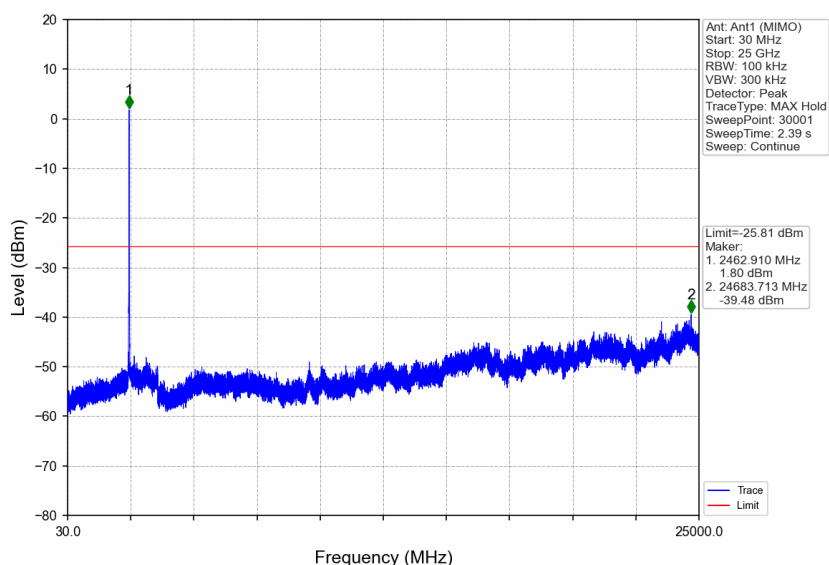
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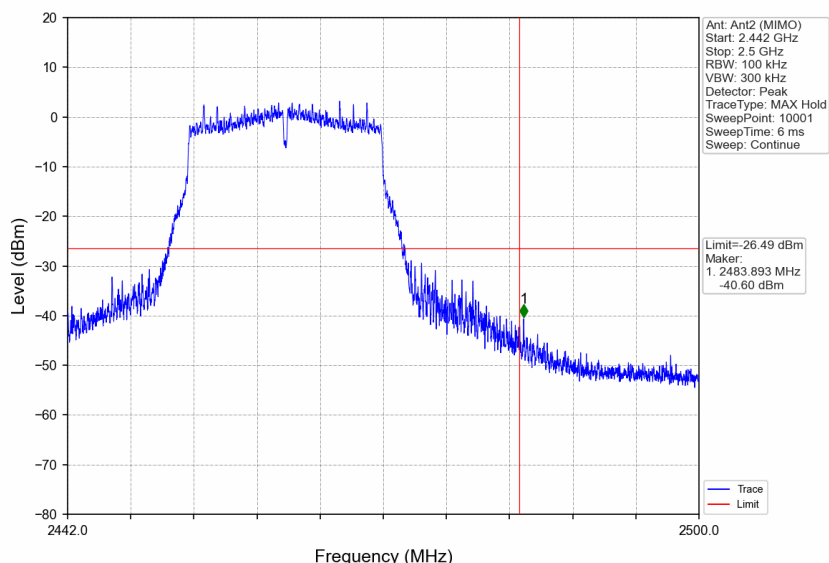
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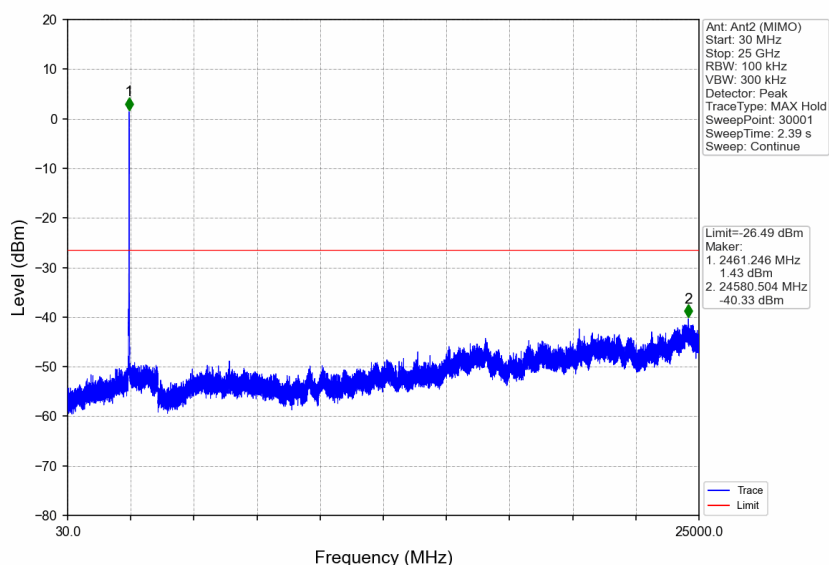
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802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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