

Appendix A for SHCR220500092401

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

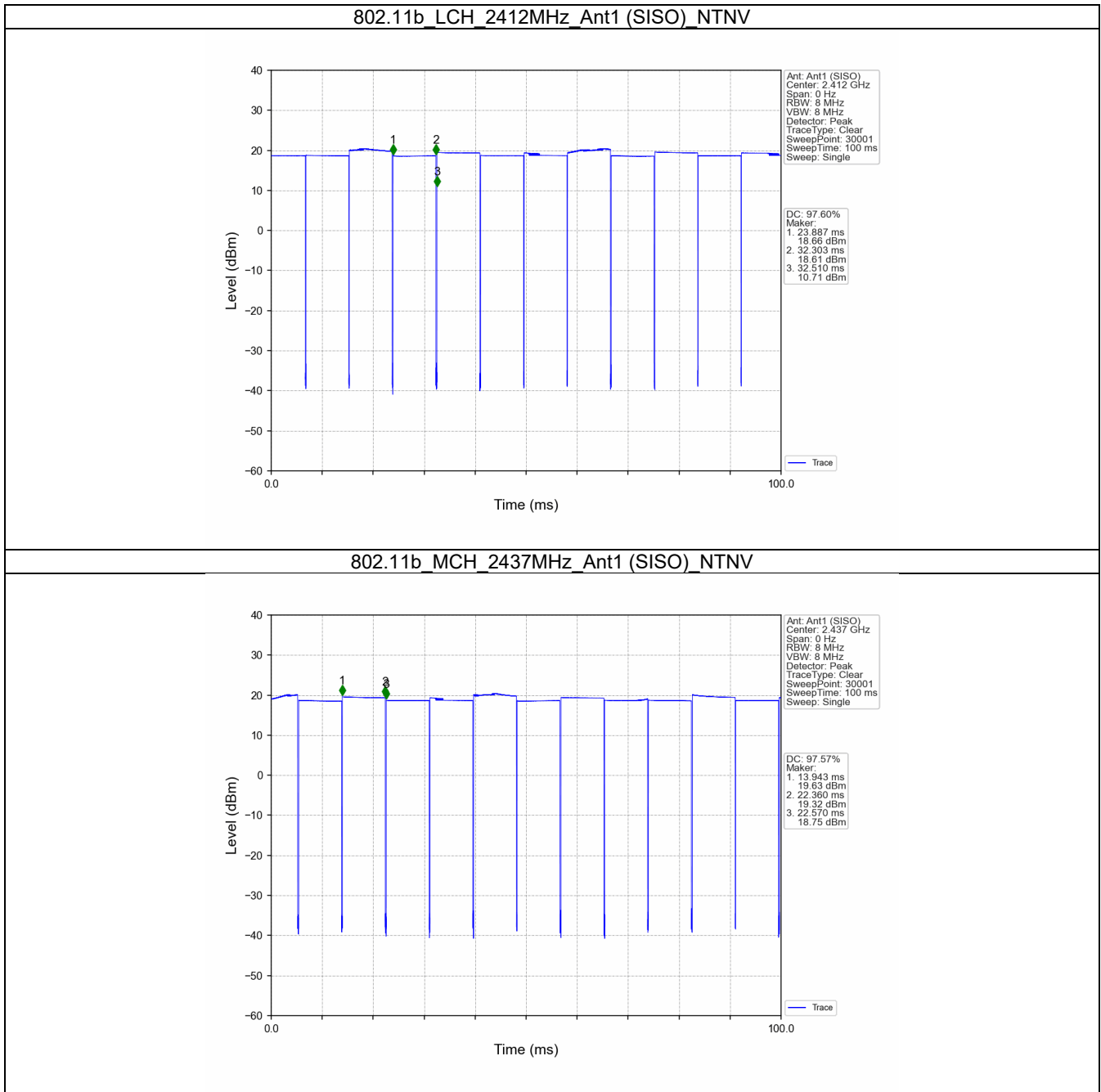
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.416	8.623	97.60	0.11	1.53
		2437	8.417	8.627	97.57	0.11	1.45
		2462	8.417	8.624	97.60	0.11	1.34
802.11g	SISO	2412	1.397	1.610	86.77	0.62	7.97
		2437	1.397	1.584	88.19	0.55	6.47
		2462	1.397	1.611	86.72	0.62	7.93
802.11n (HT20)	MIMO	2412	1.310	1.487	88.10	0.55	6.28
		2437	1.309	1.505	86.98	0.61	7.34
		2462	1.309	1.522	86.01	0.65	8.33



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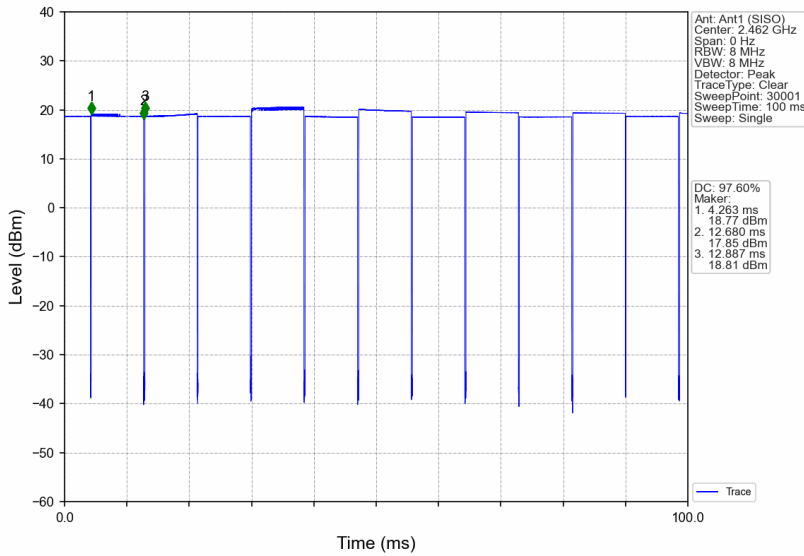
1.1.2 Test Graph



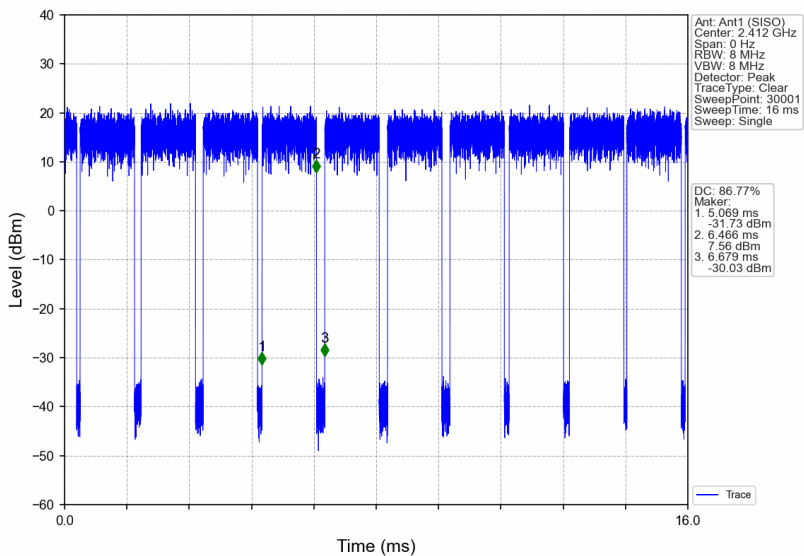
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802.11b HCH 2462MHz Ant1 (SISO) NTN



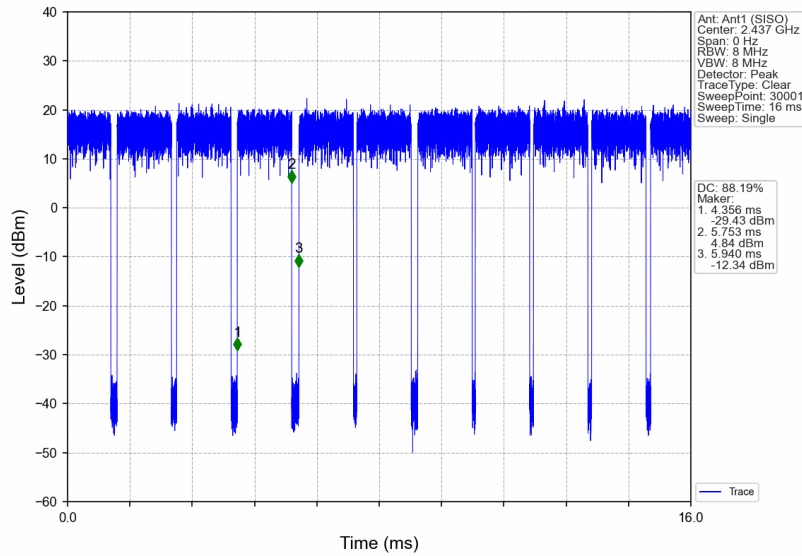
802.11g LCH 2412MHz Ant1 (SISO) NTN



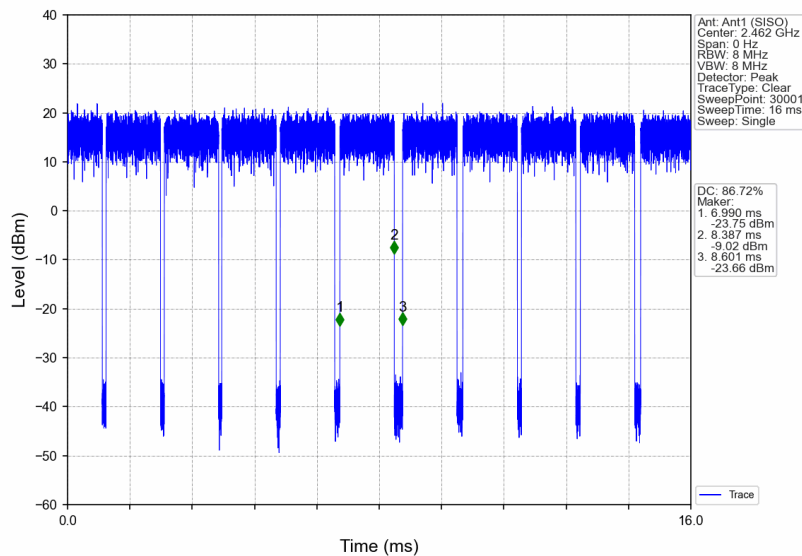
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802.11g MCH 2437MHz Ant1 (SISO) NTN



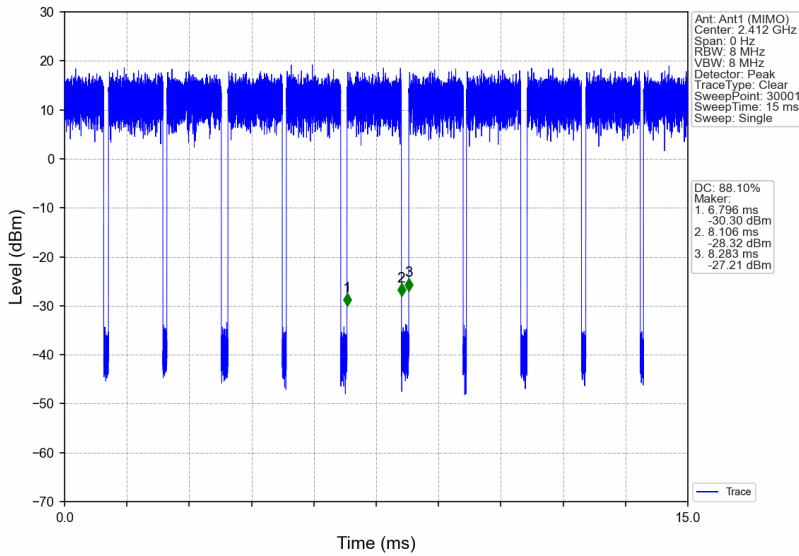
802.11g HCH 2462MHz Ant1 (SISO) NTN



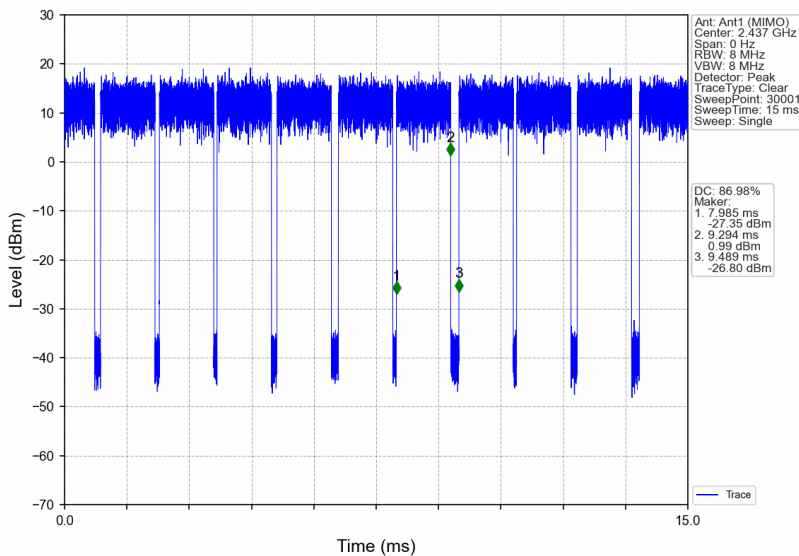
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTN

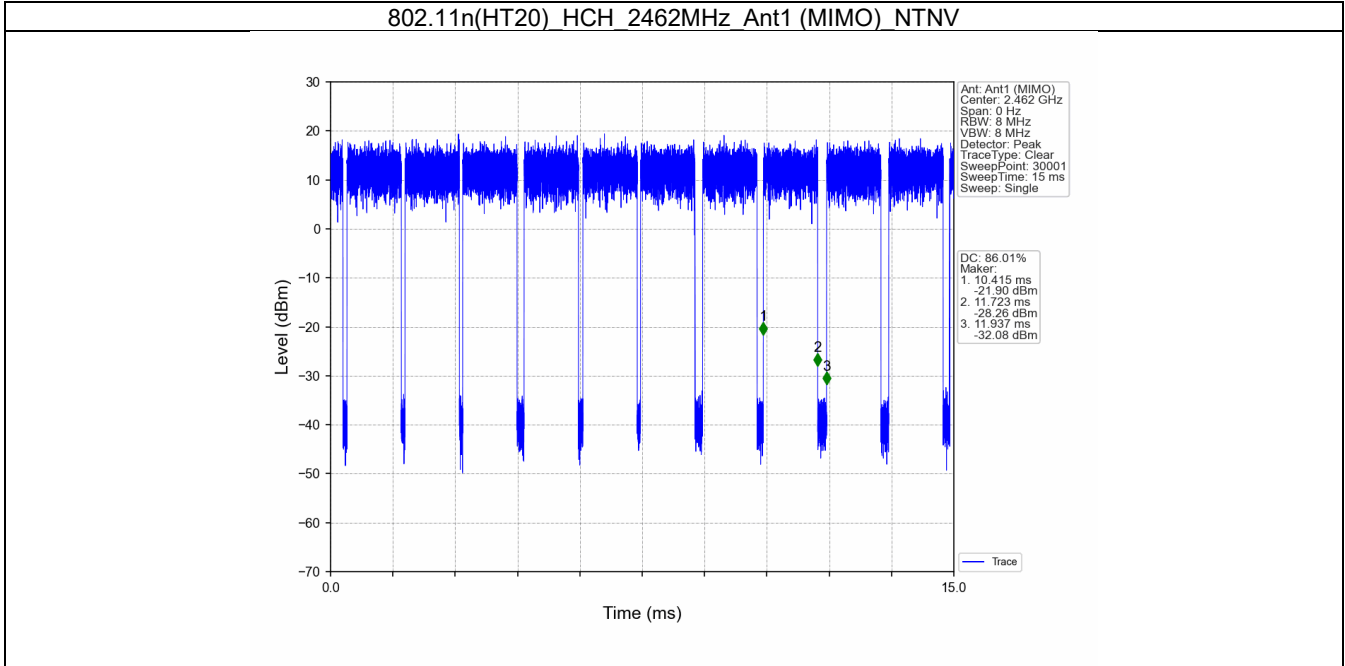


802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTN



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

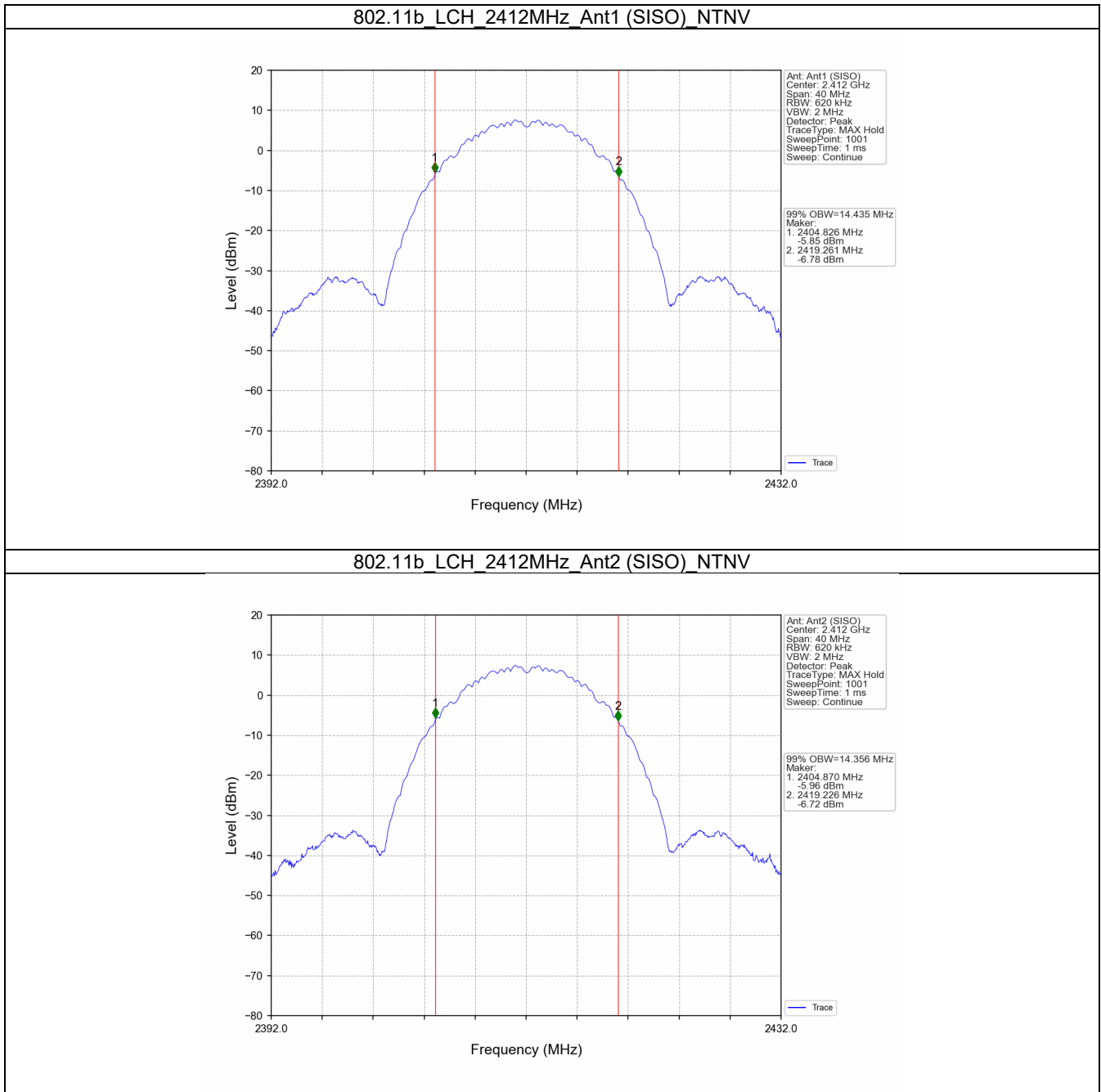
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.435	Pass
			2	14.356	Pass
		2437	1	14.431	Pass
			2	14.326	Pass
		2462	1	14.412	Pass
			2	14.322	Pass
802.11g	SISO	2412	1	17.457	Pass
			2	17.481	Pass
		2437	1	17.486	Pass
			2	17.437	Pass
		2462	1	17.448	Pass
			2	17.438	Pass
802.11n (HT20)	MIMO	2412	1	18.082	Pass
			2	17.695	Pass
		2437	1	18.059	Pass
			2	17.687	Pass
		2462	1	18.056	Pass
			2	17.689	Pass



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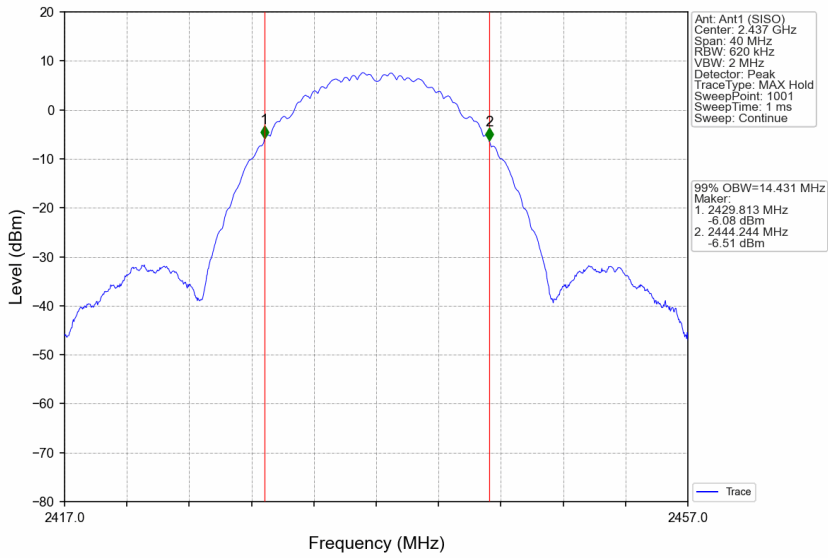
2.1.2 Test Graph



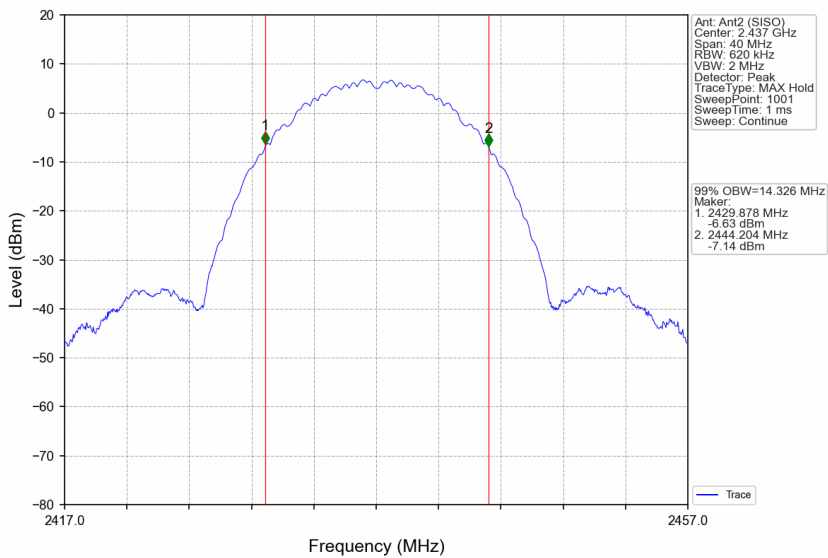
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802.11b MCH 2437MHz Ant1 (SISO) NTN



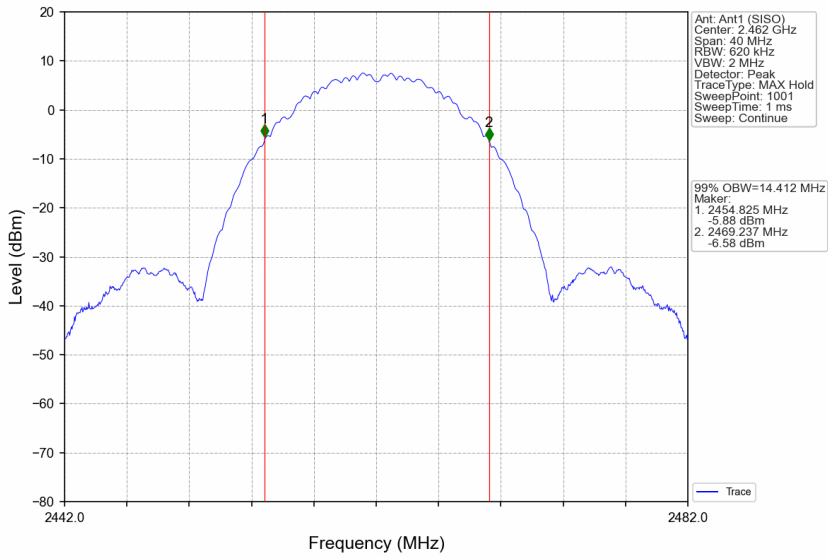
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



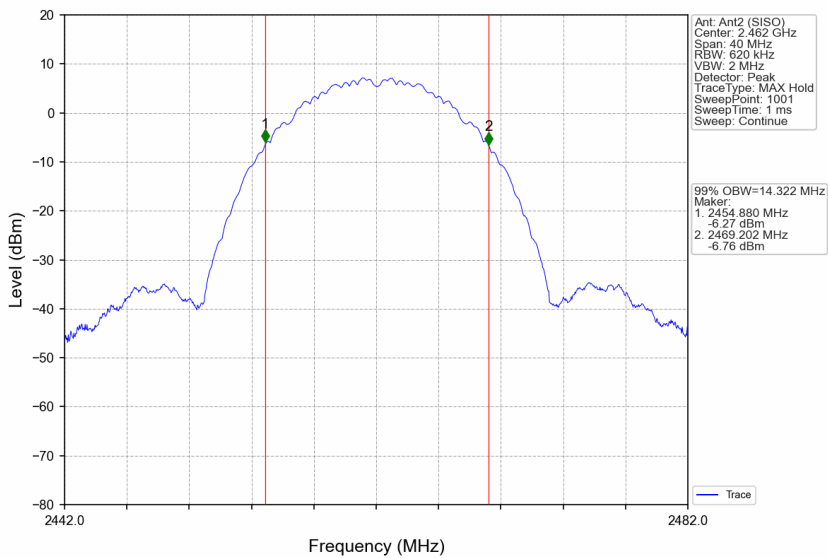
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802.11b HCH 2462MHz Ant1 (SISO) NTN



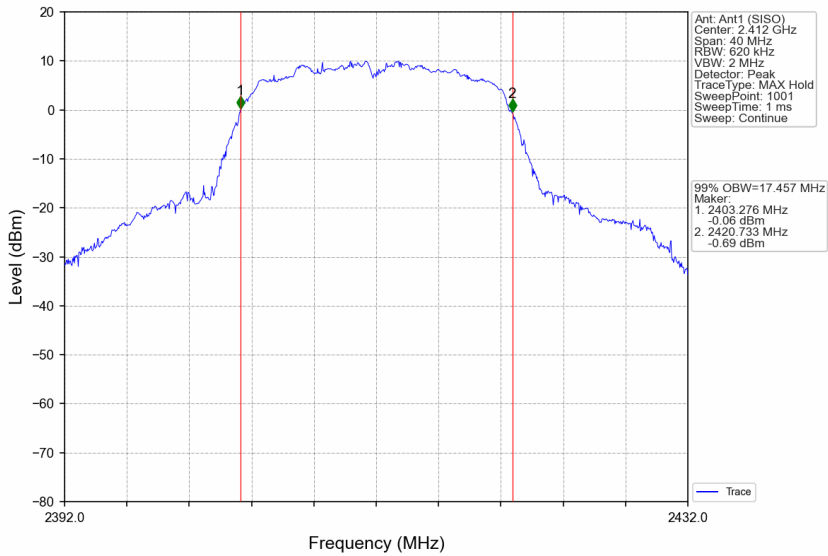
802.11b HCH 2462MHz Ant2 (SISO) NTN



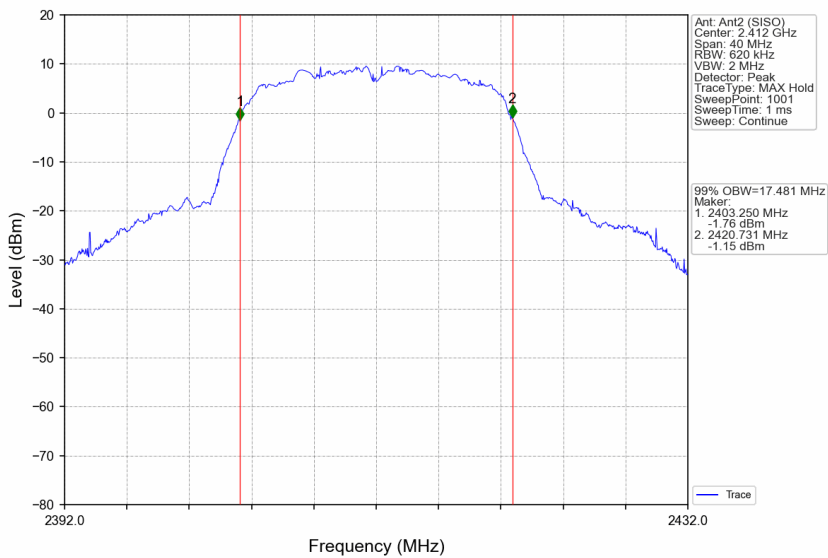
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802.11g LCH 2412MHz Ant1 (SISO) NTN



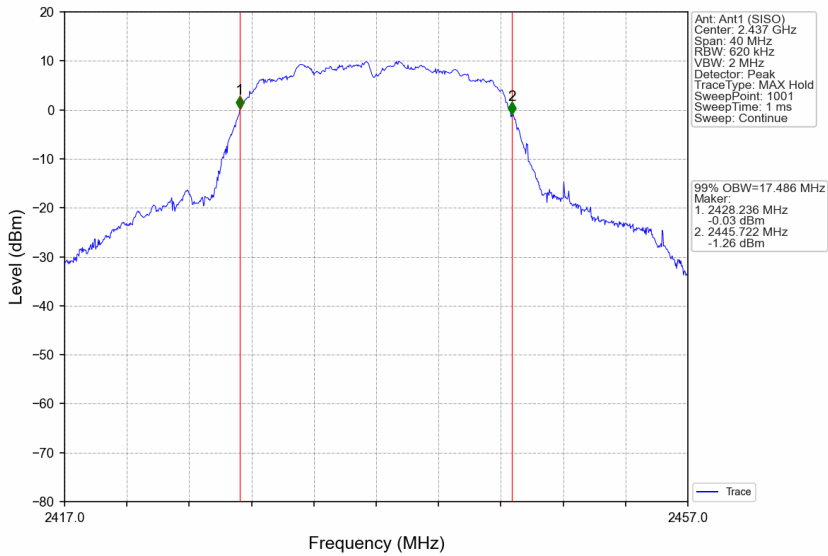
802.11g LCH 2412MHz Ant2 (SISO) NTN



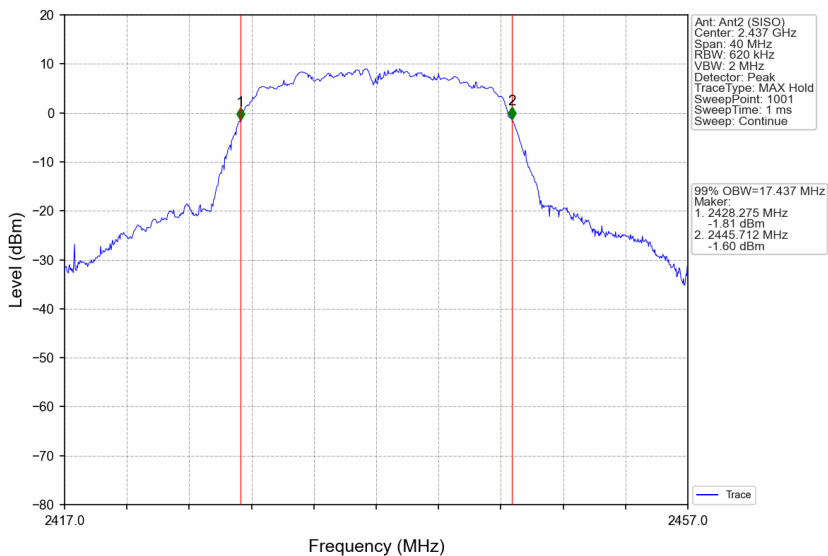
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802.11g MCH 2437MHz Ant1 (SISO) NTN



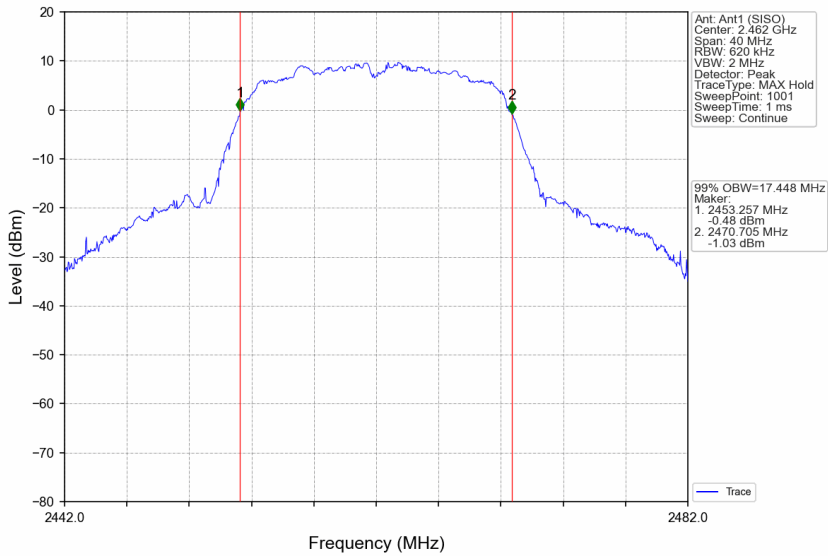
802.11g MCH 2437MHz Ant2 (SISO) NTN



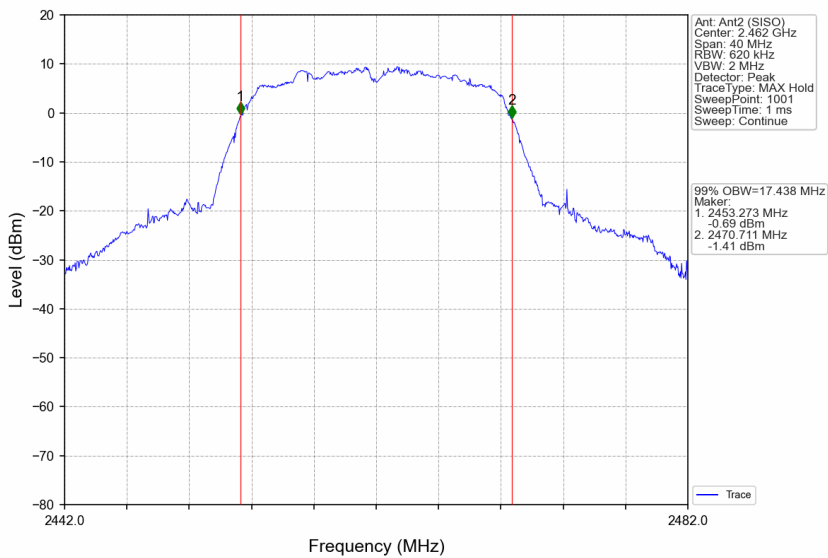
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802.11g HCH 2462MHz Ant1 (SISO) NTN



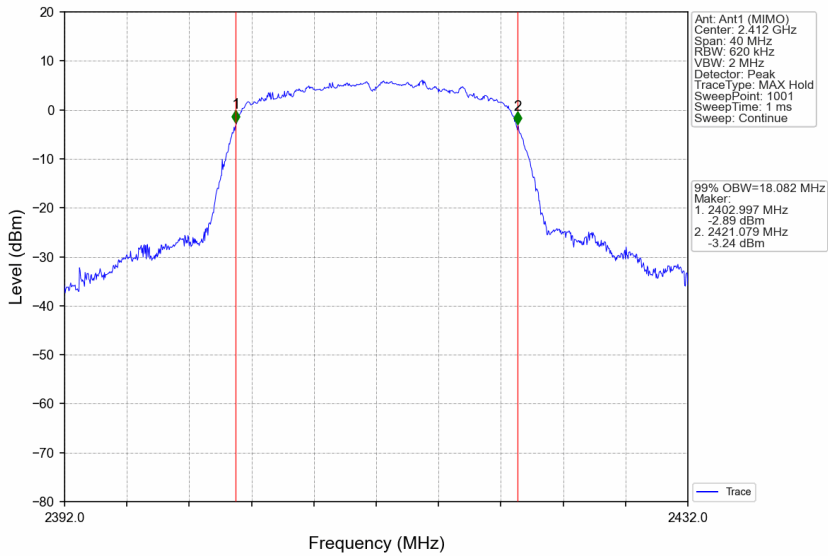
802.11g HCH 2462MHz Ant2 (SISO) NTN



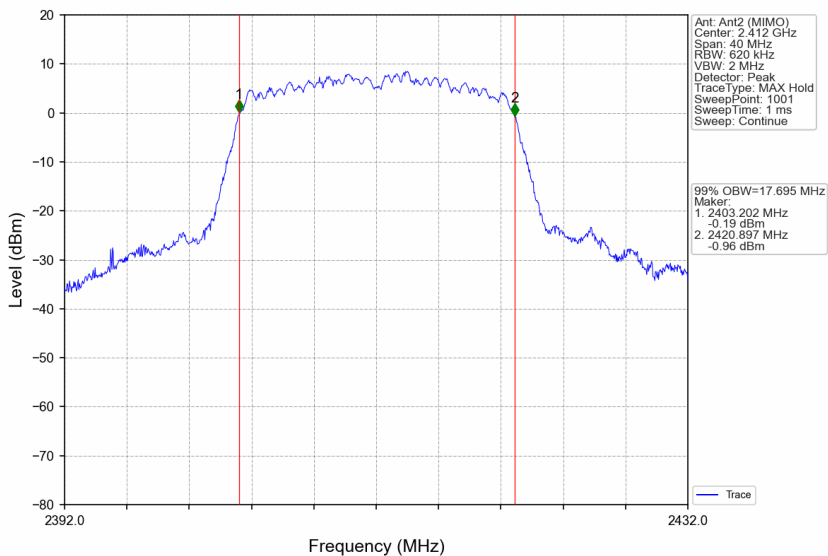
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



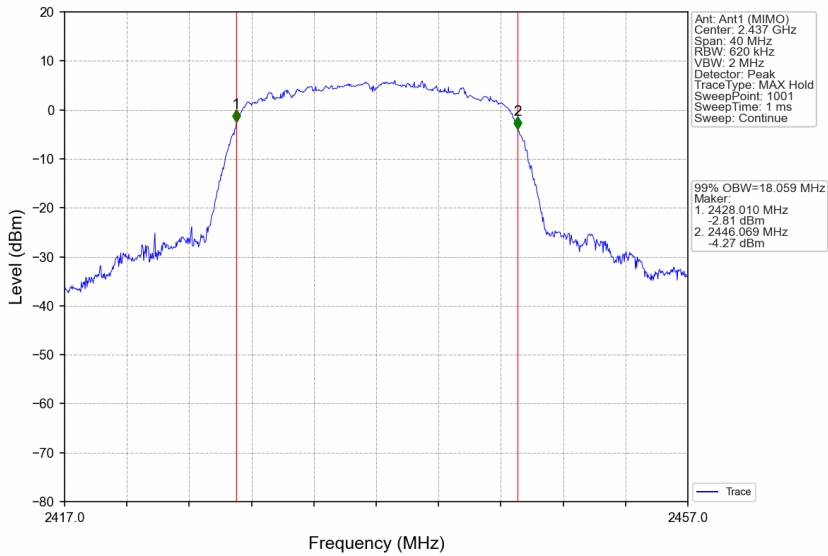
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



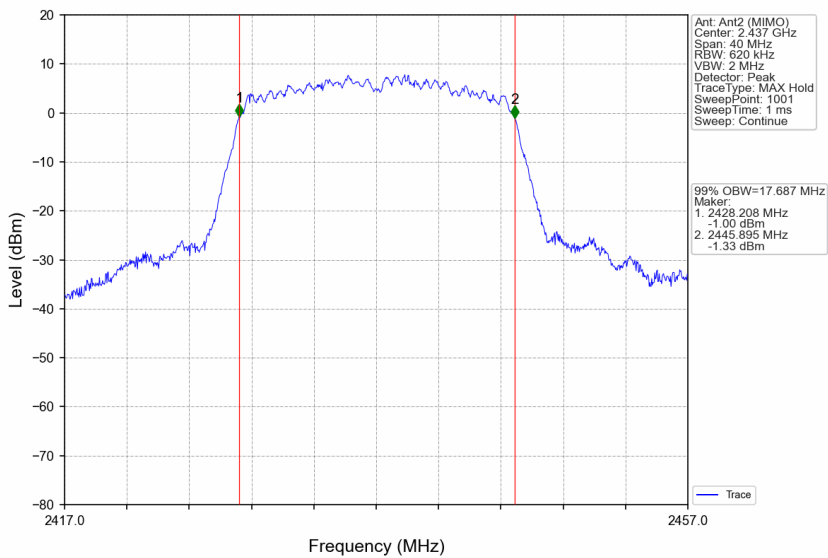
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802.11n(HT20) MCH_2437MHz Ant1 (MIMO) NTN



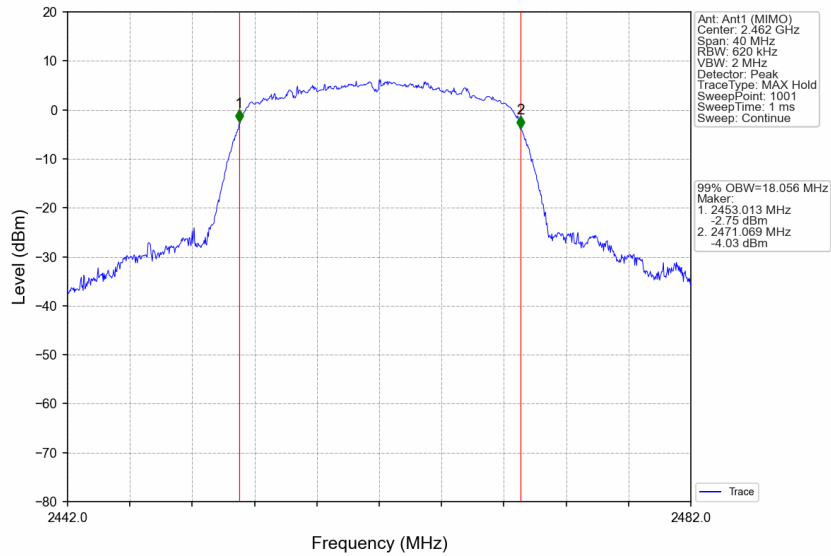
802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



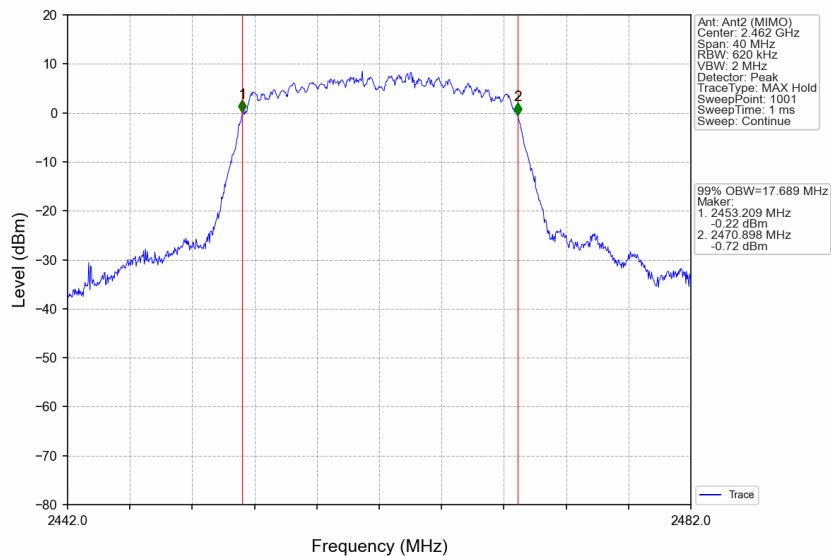
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz_Ant2 (MIMO) NTN



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2.2 6dB BW

2.2.1 Test Result

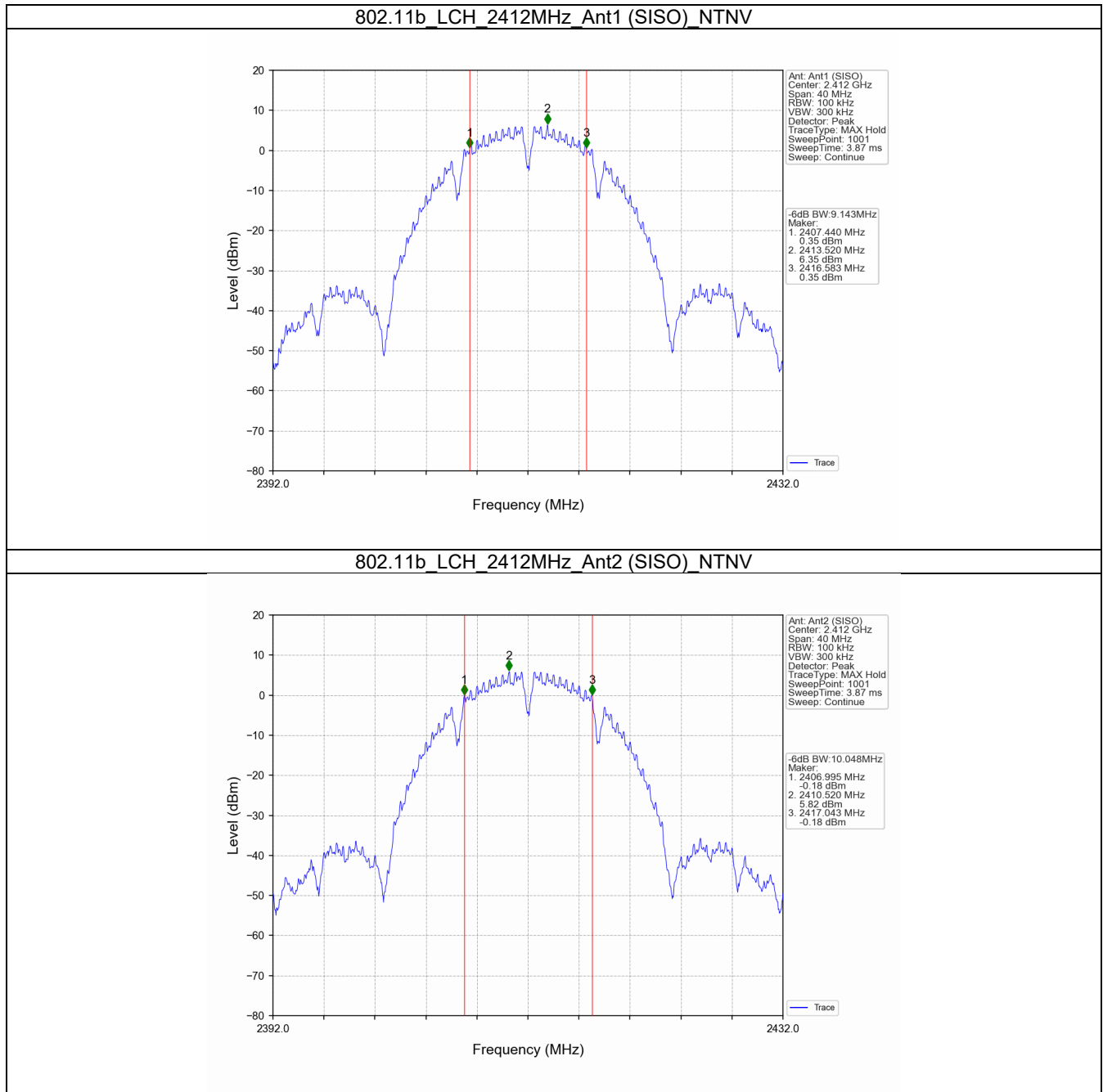
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.143	>=0.5	Pass
			2	10.048	>=0.5	Pass
		2437	1	9.141	>=0.5	Pass
			2	10.054	>=0.5	Pass
		2462	1	10.061	>=0.5	Pass
			2	10.053	>=0.5	Pass
802.11g	SISO	2412	1	15.142	>=0.5	Pass
			2	15.102	>=0.5	Pass
		2437	1	15.167	>=0.5	Pass
			2	15.139	>=0.5	Pass
		2462	1	15.134	>=0.5	Pass
			2	15.139	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.113	>=0.5	Pass
			2	15.129	>=0.5	Pass
		2437	1	15.111	>=0.5	Pass
			2	15.134	>=0.5	Pass
		2462	1	15.146	>=0.5	Pass
			2	15.137	>=0.5	Pass



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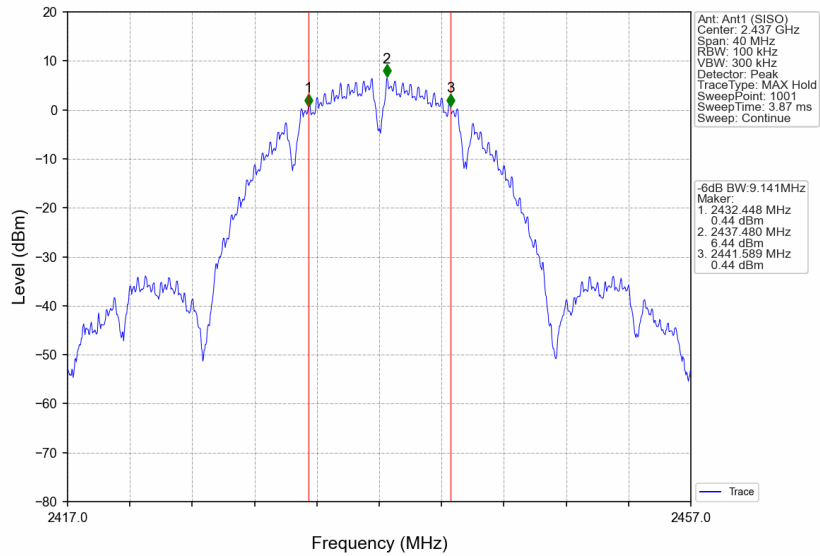
2.2.2 Test Graph



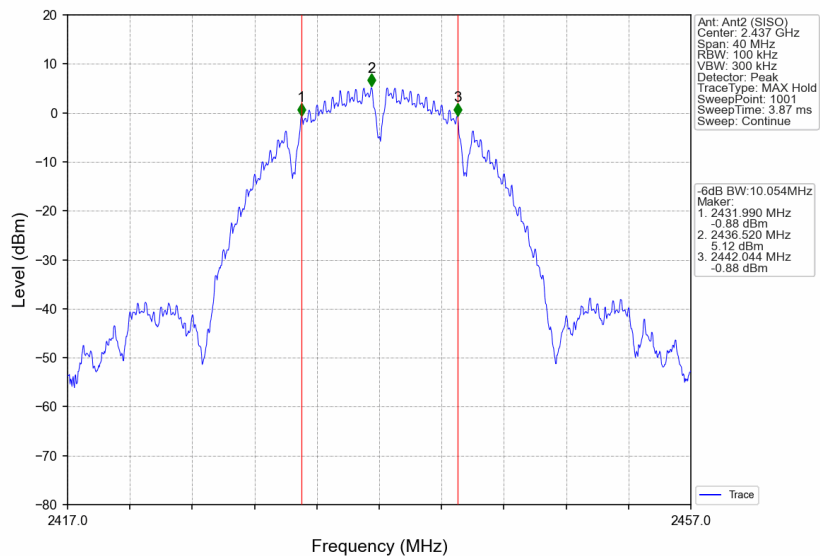
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802.11b MCH 2437MHz Ant1 (SISO) NTN



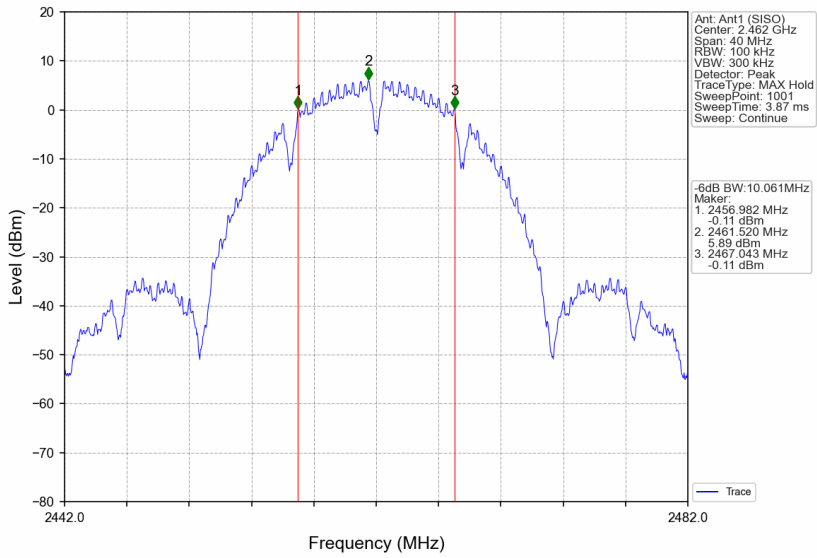
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



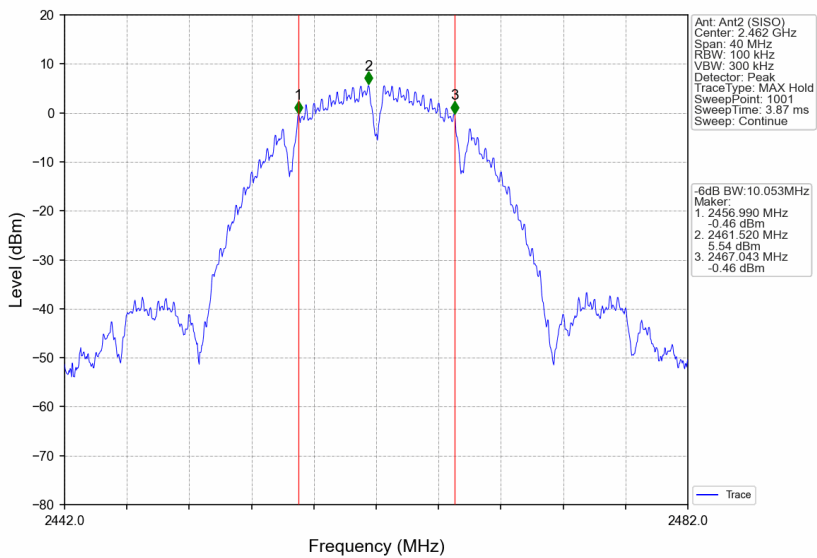
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802.11b HCH 2462MHz Ant1 (SISO) NTN



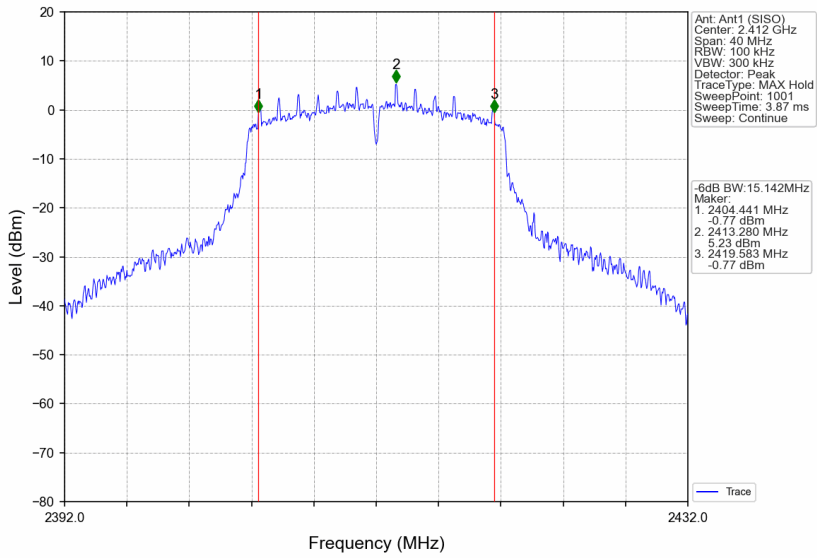
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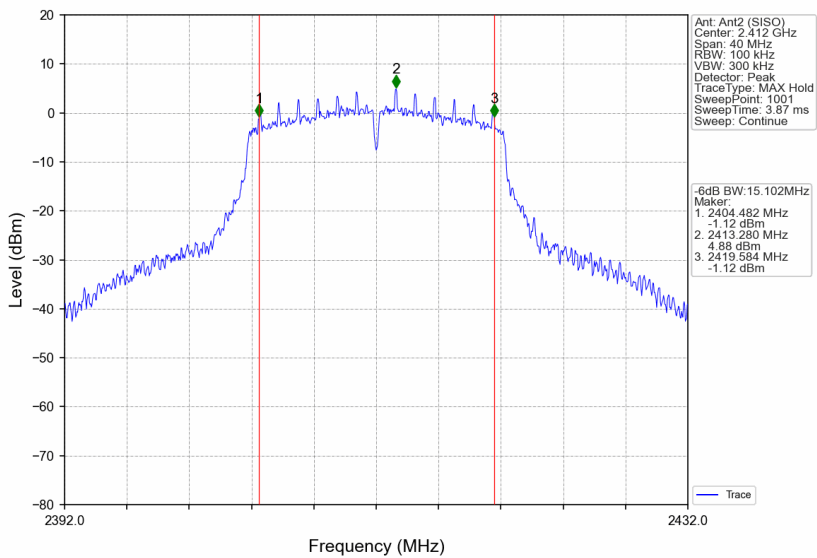
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



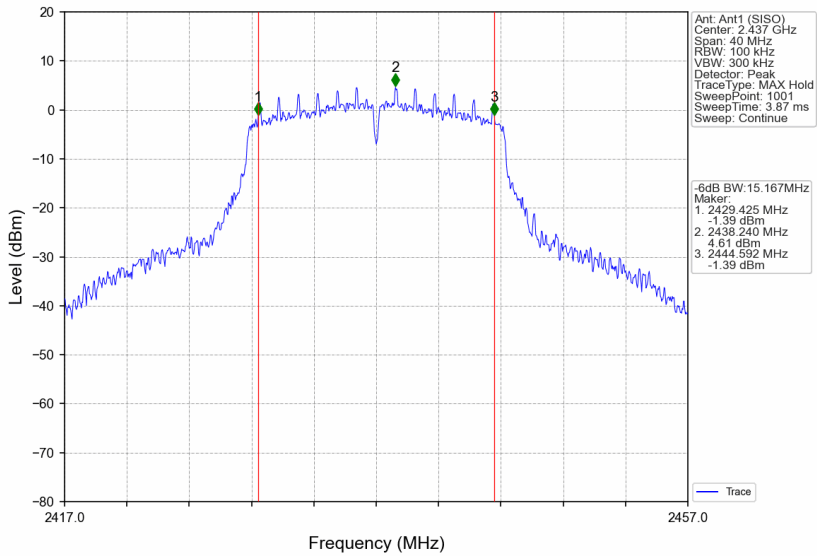
802.11g LCH 2412MHz Ant2 (SISO) NTNV



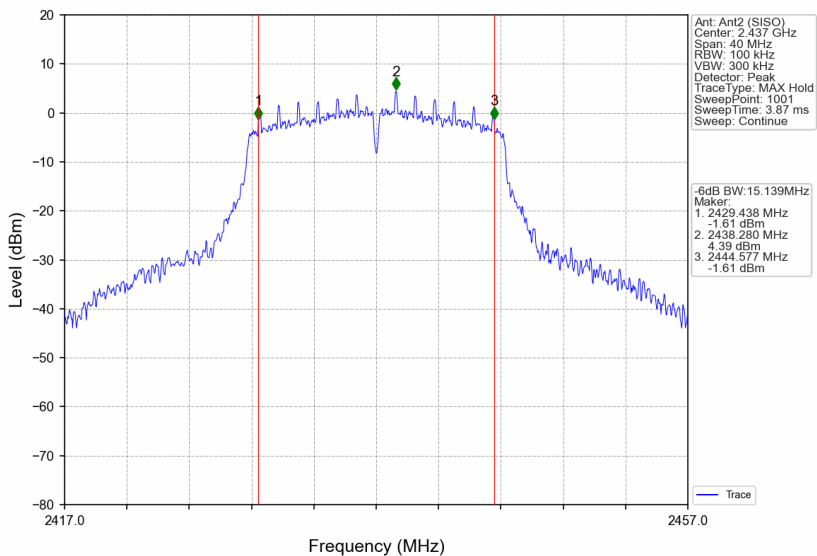
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802.11g MCH 2437MHz Ant1 (SISO) NTN



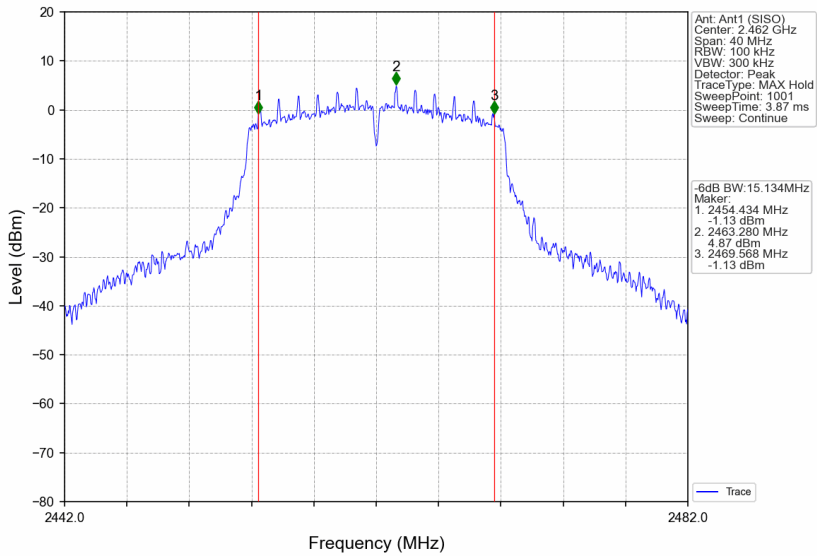
802.11g MCH 2437MHz Ant2 (SISO) NTN



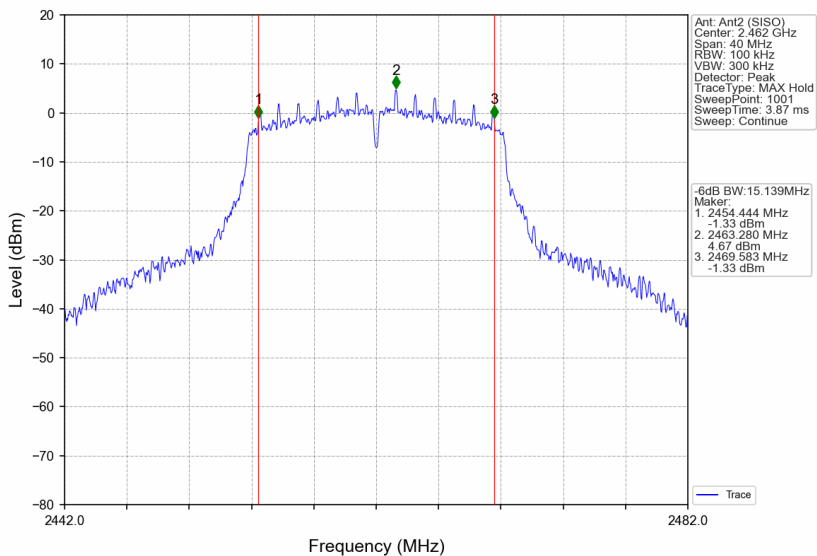
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802.11g HCH 2462MHz Ant1 (SISO) NTN



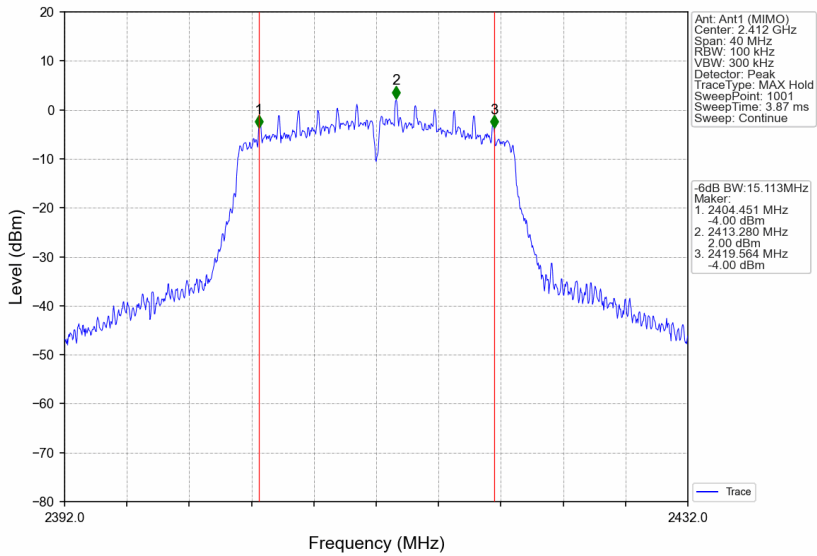
802.11g HCH 2462MHz Ant2 (SISO) NTN



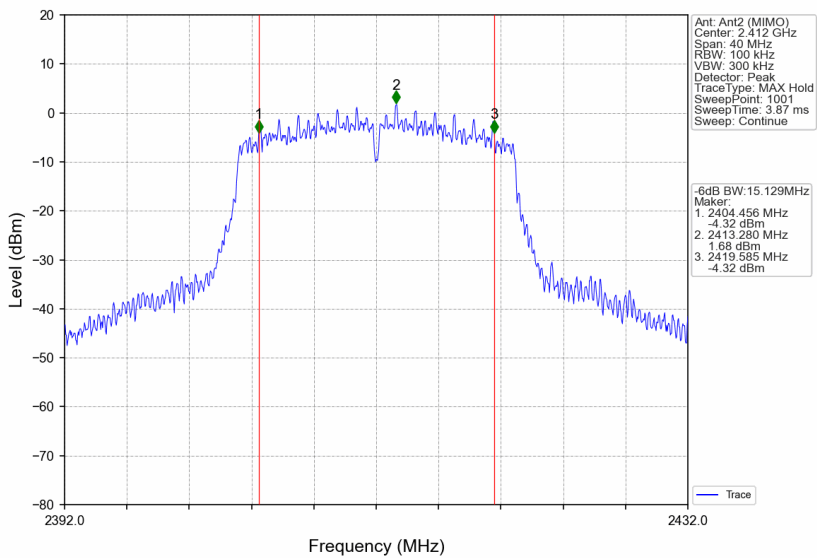
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



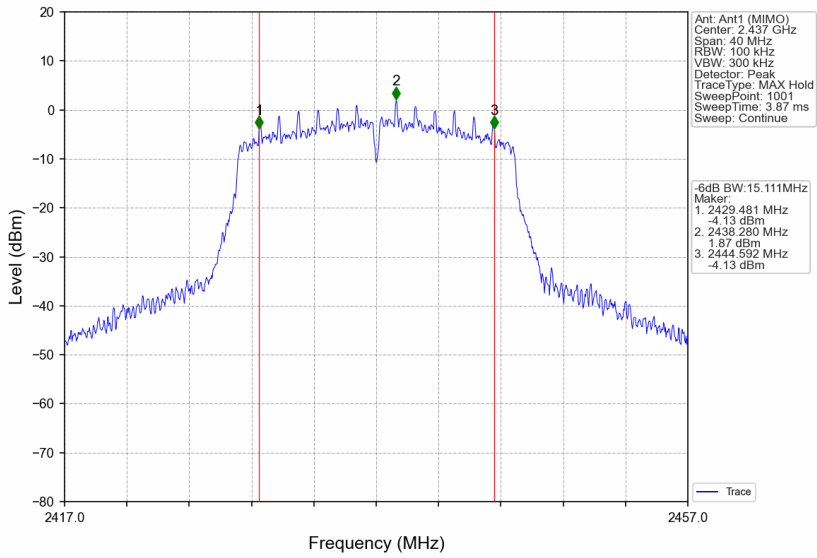
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



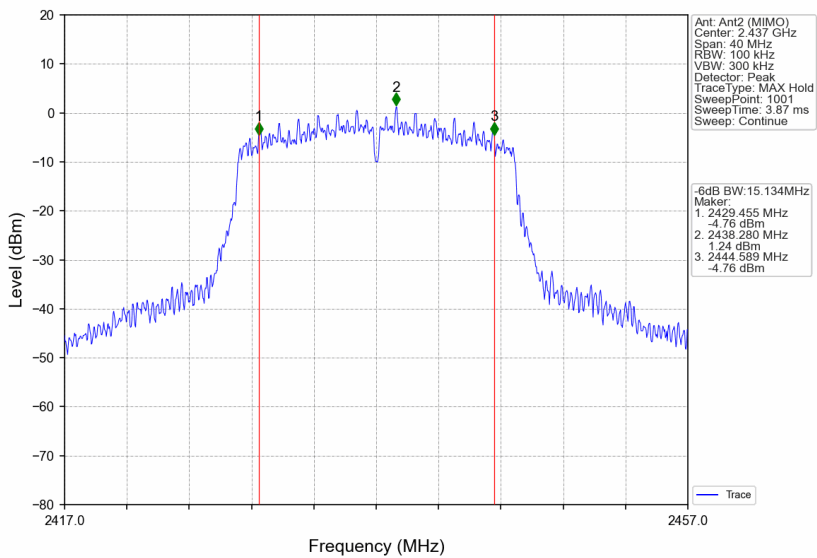
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



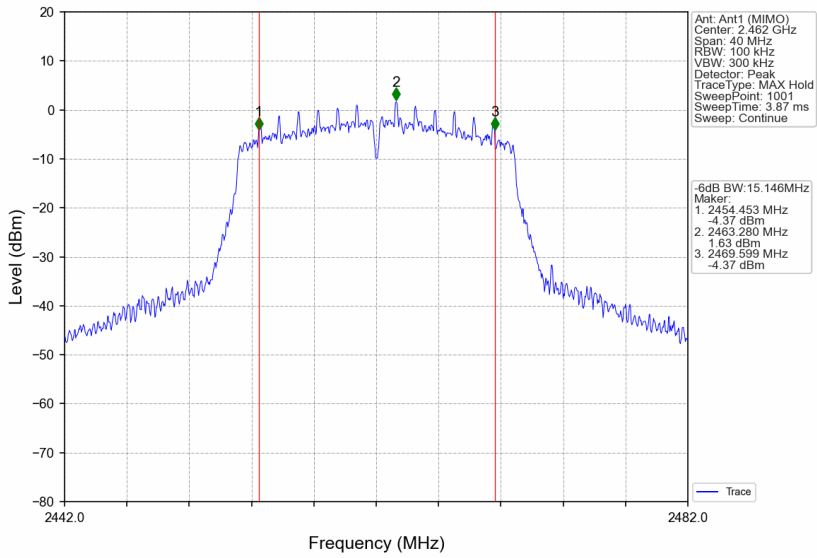
802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



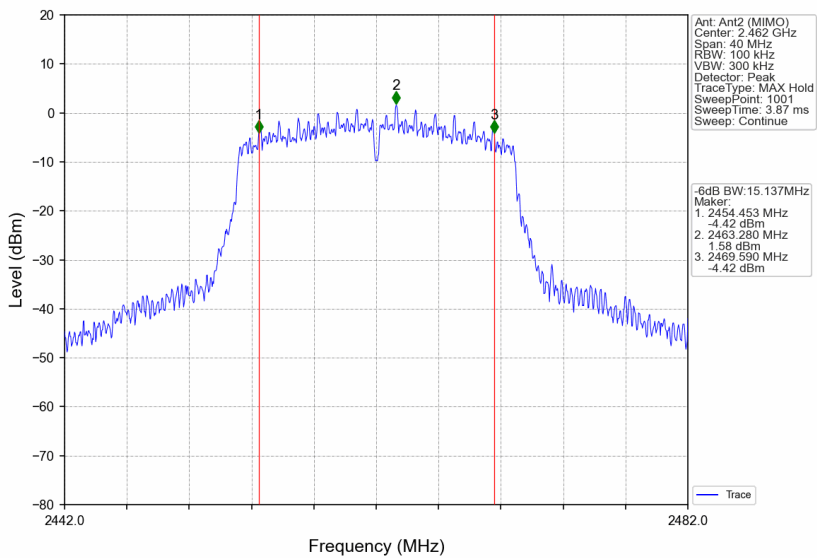
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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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	15.58	15.32	/	<=30	Pass
		2437	15.54	14.70	/	<=30	Pass
		2462	15.46	15.09	/	<=30	Pass
802.11g	SISO	2412	14.76	14.36	/	<=30	Pass
		2437	14.65	13.89	/	<=30	Pass
		2462	14.52	14.24	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.37	11.37	14.38	<=30	Pass
		2437	11.26	10.83	14.06	<=30	Pass
		2462	11.16	11.13	14.16	<=30	Pass

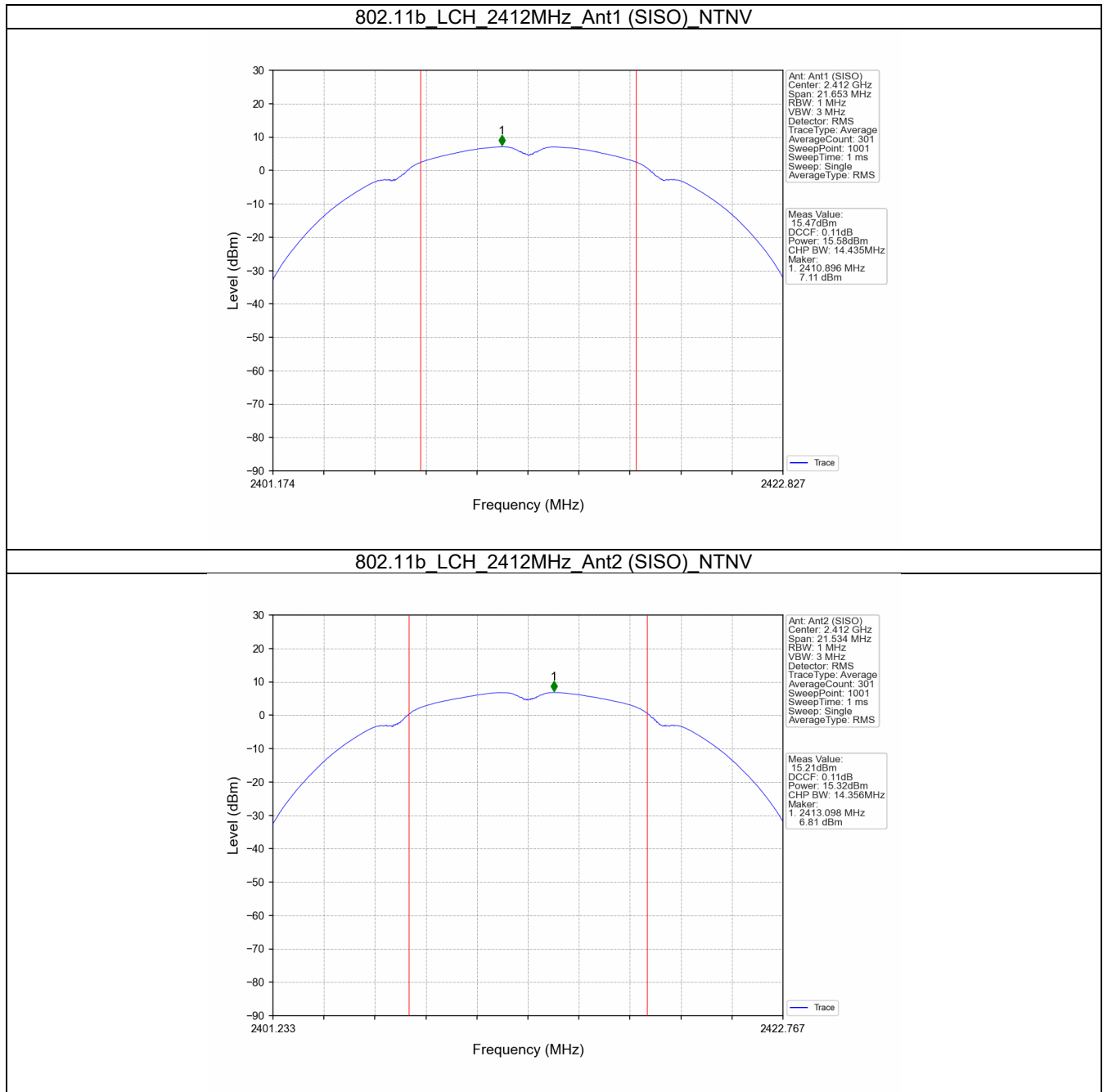
Note1: Antenna Gain: Ant1: 2.69dBi; Ant2: 2.69dBi;
 Note2: Directional Gain: correlated(Directional Gain =5.70dBi)



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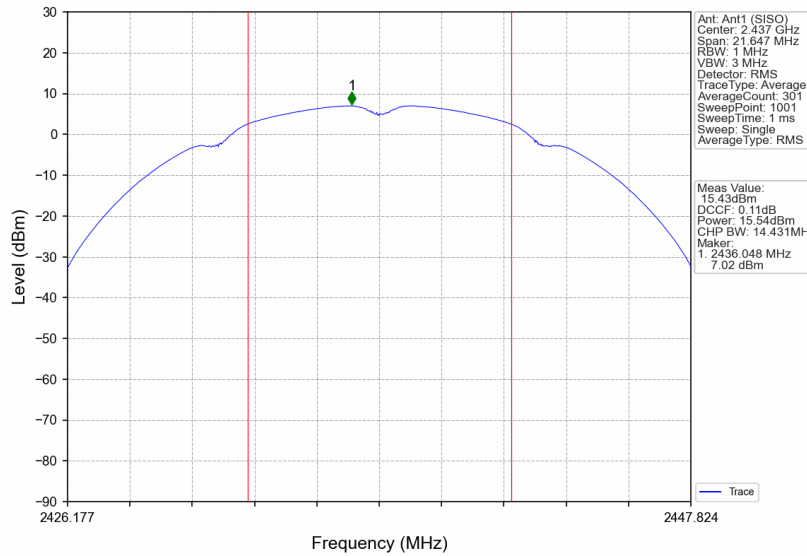
3.1.2 Test Graph



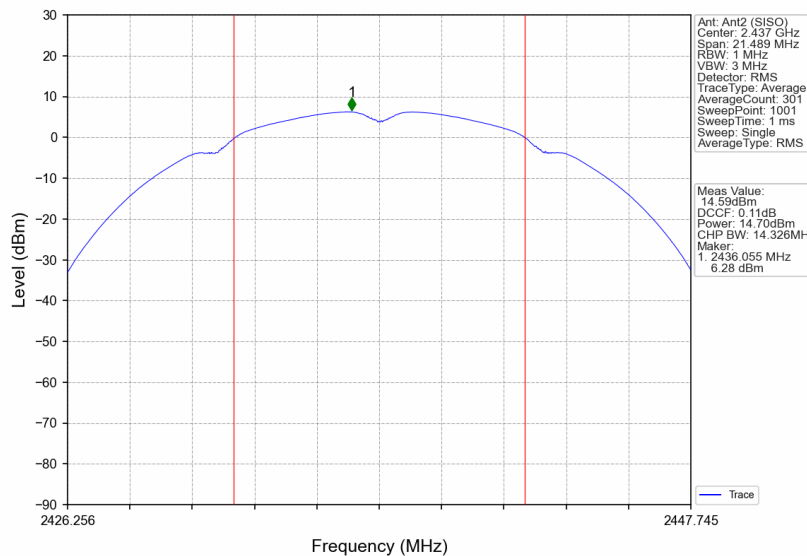
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802.11b MCH 2437MHz Ant1 (SISO) NTN



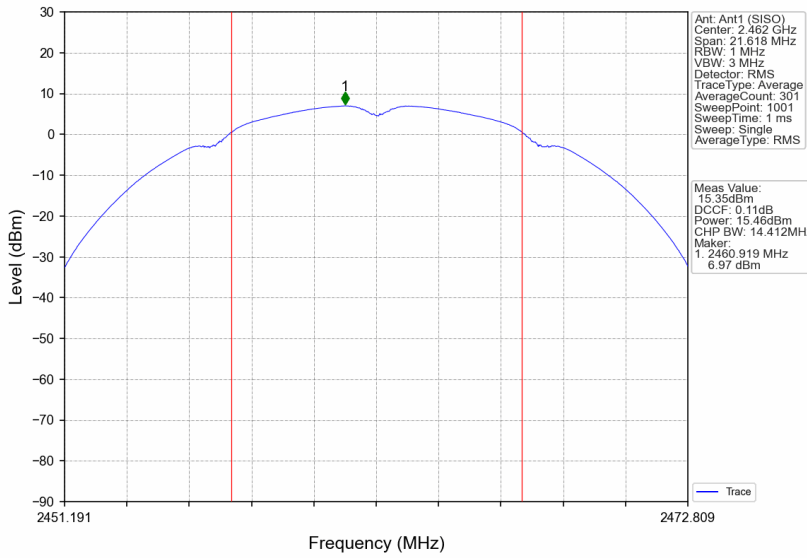
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



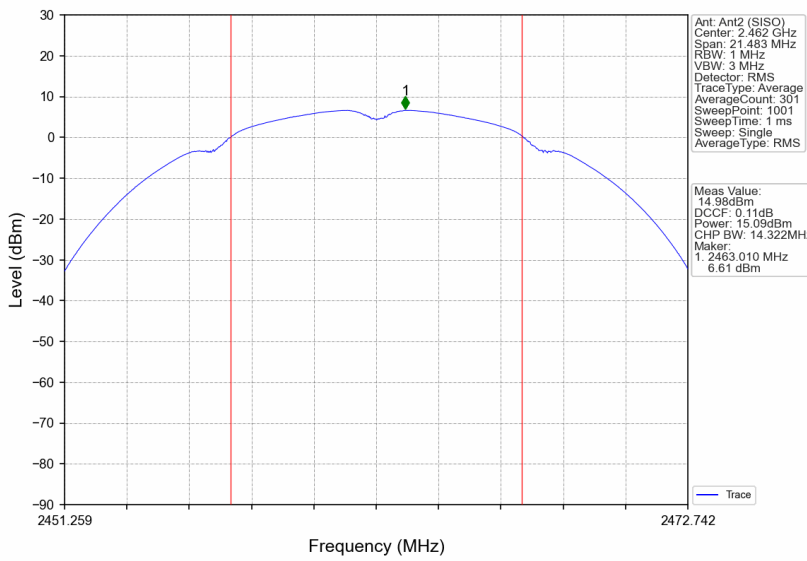
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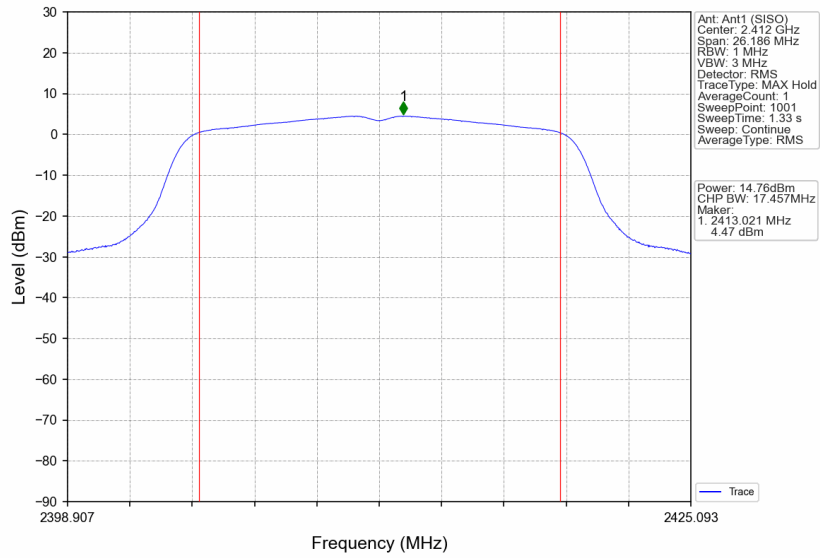
802.11b HCH 2462MHz Ant2 (SISO) NTN



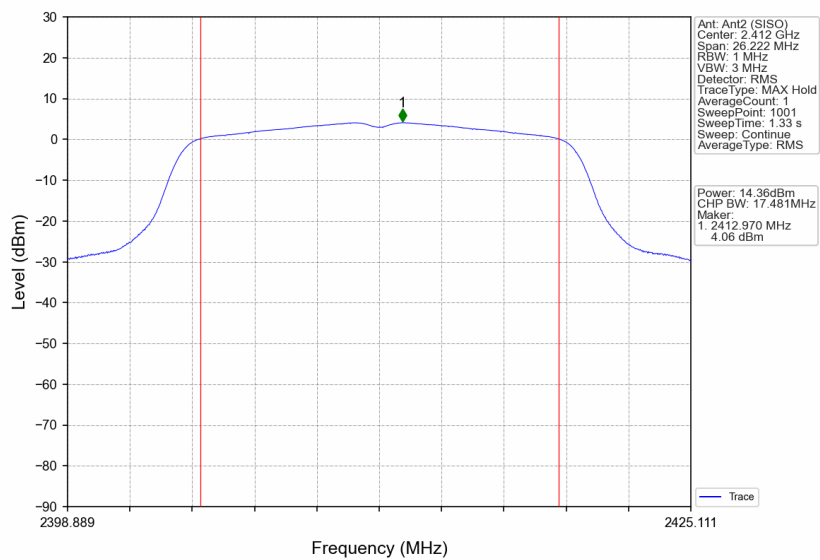
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802.11g_LCH_2412MHz_Ant1 (SISO) NTN



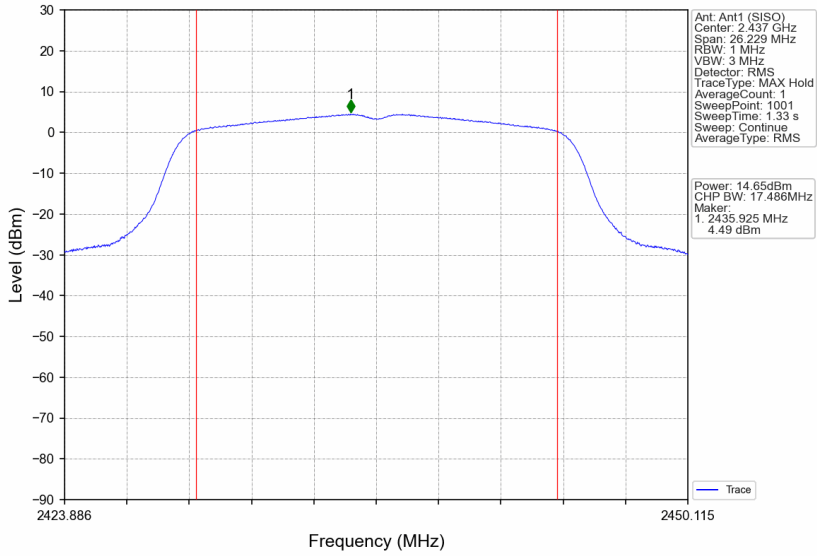
802.11g_LCH_2412MHz_Ant2 (SISO) NTN



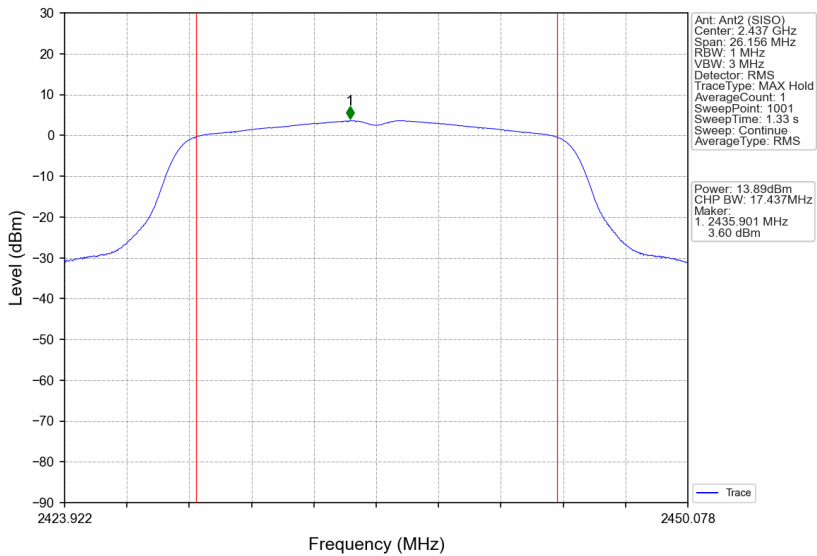
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802.11g MCH 2437MHz Ant1 (SISO) NTV



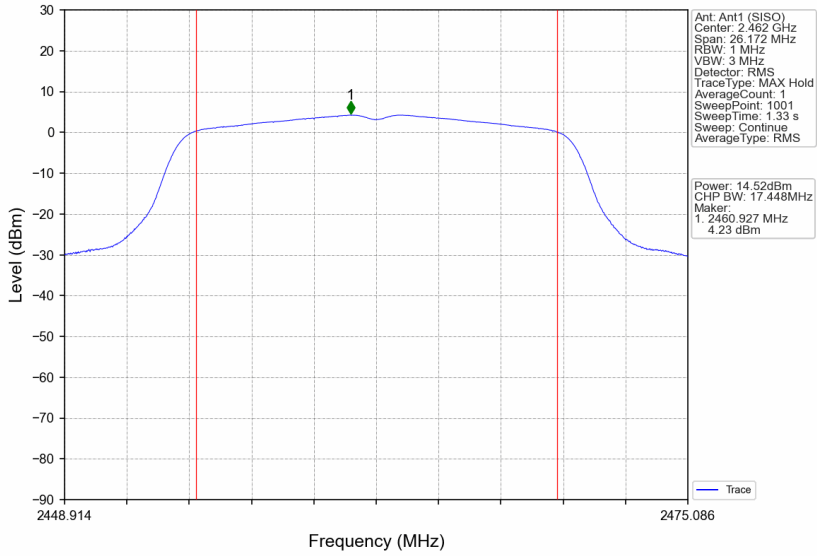
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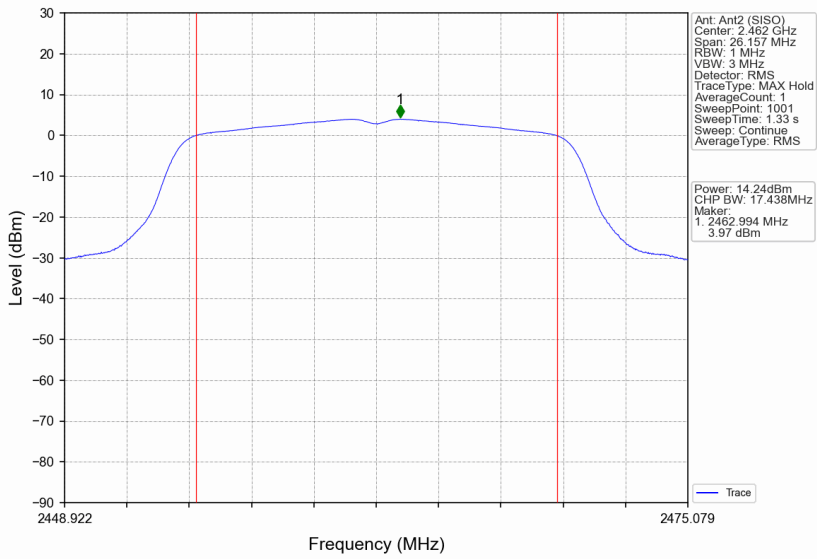
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802.11g HCH 2462MHz Ant1 (SISO) NTN



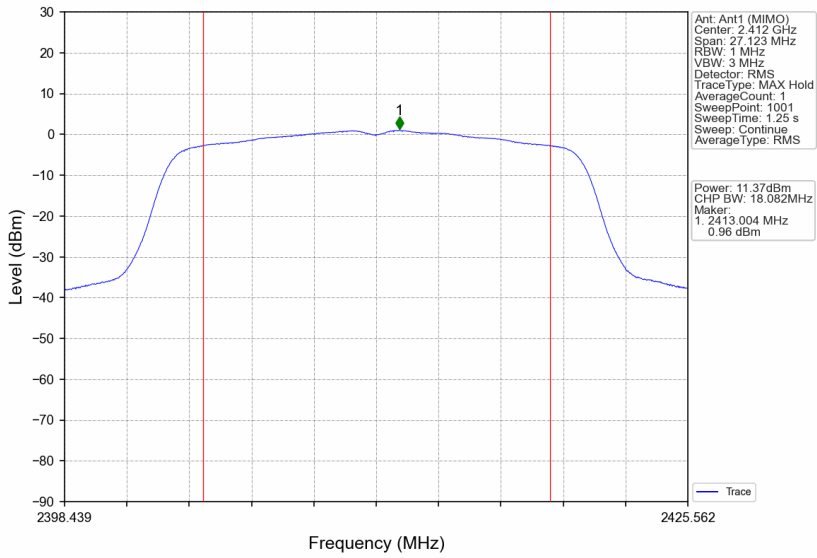
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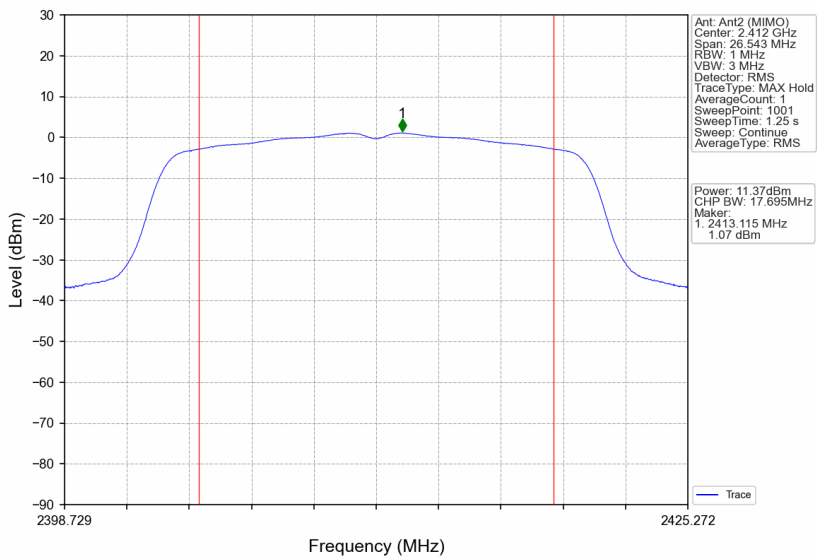
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



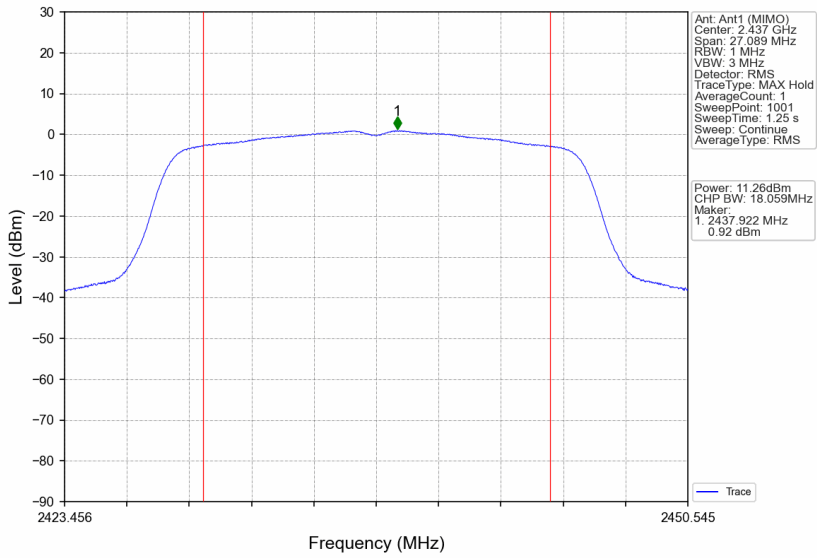
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



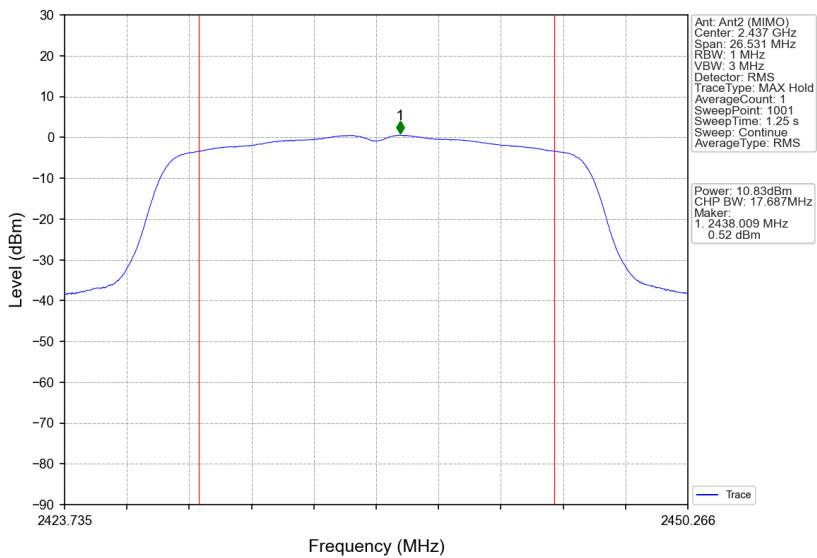
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802.11n(HT20) MCH_2437MHz Ant1 (MIMO) NTN



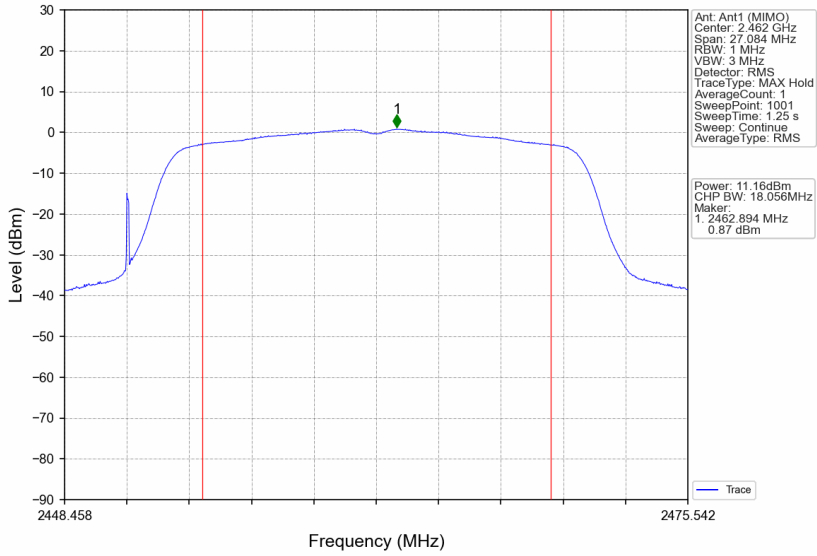
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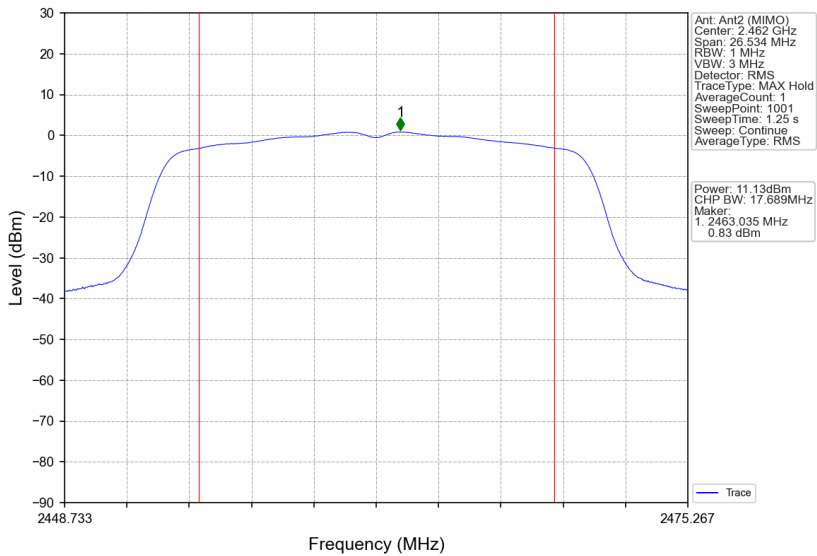
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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	-9.28	-10.16	/	<=8	Pass
		2437	-9.45	-10.76	/	<=8	Pass
		2462	-9.75	-9.47	/	<=8	Pass
802.11g	SISO	2412	-11.09	-12.15	/	<=8	Pass
		2437	-12.22	-13.52	/	<=8	Pass
		2462	-11.80	-10.78	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-15.04	-15.70	-12.85	<=8	Pass
		2437	-14.47	-16.24	-12.69	<=8	Pass
		2462	-15.67	-13.82	-12.21	<=8	Pass

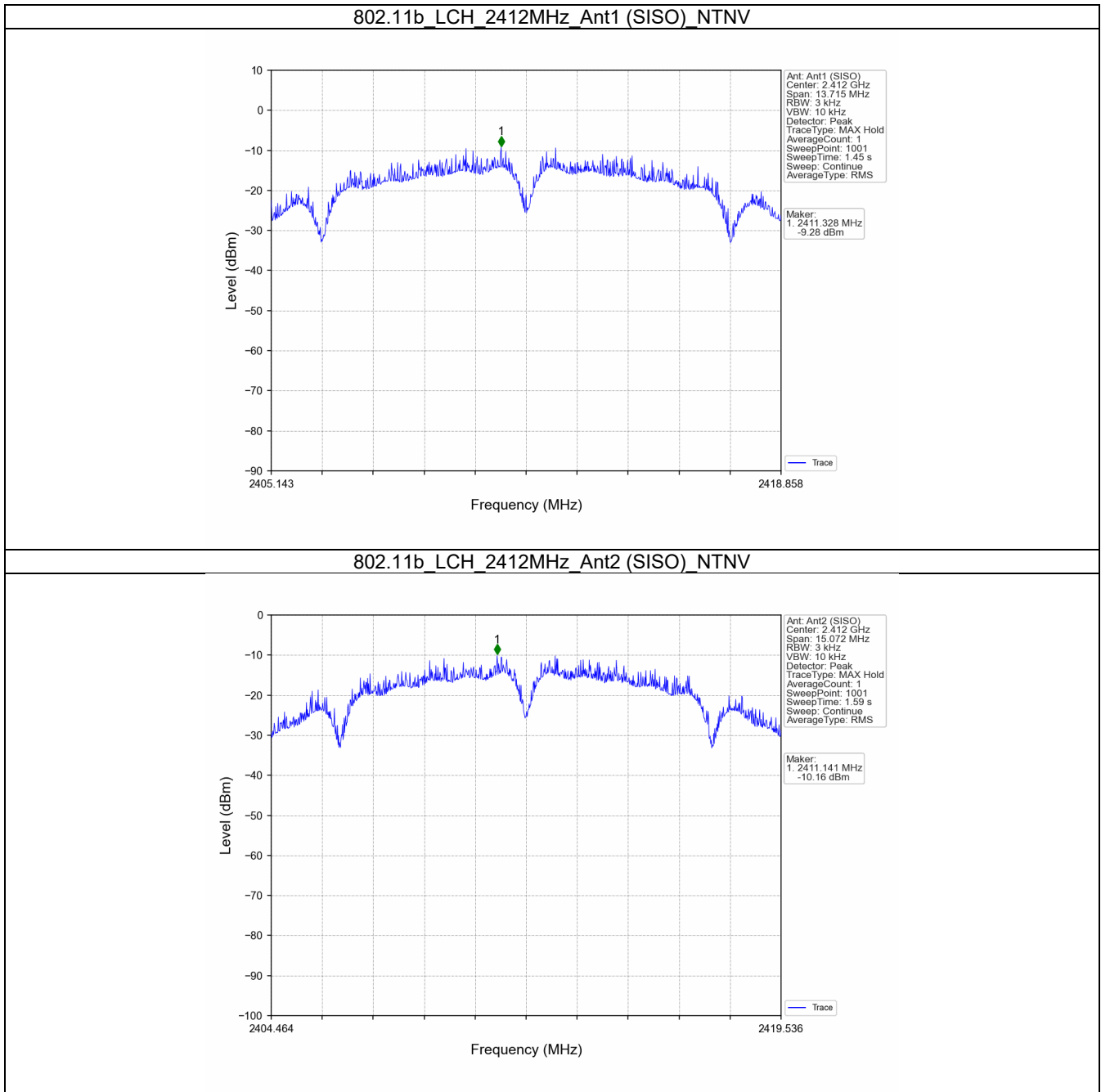
Note1: Antenna Gain: Ant1: 2.69dBi; Ant2: 2.69dBi;



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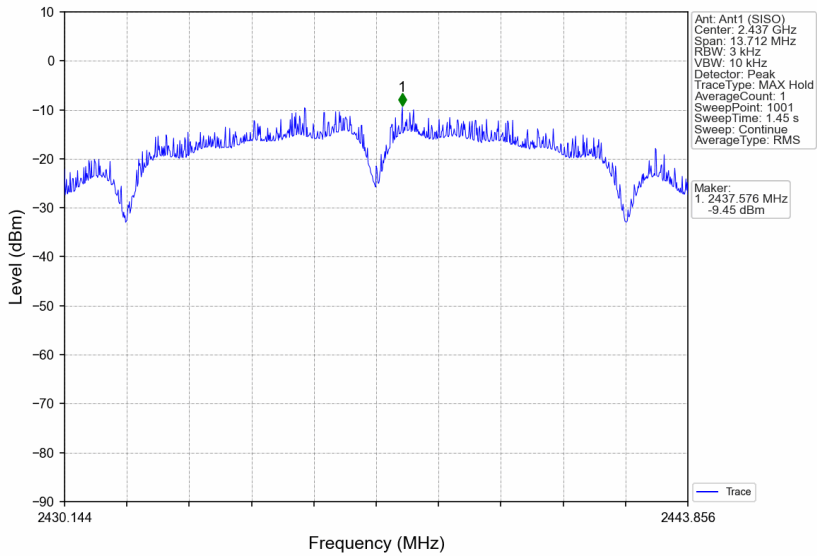
4.1.2 Test Graph



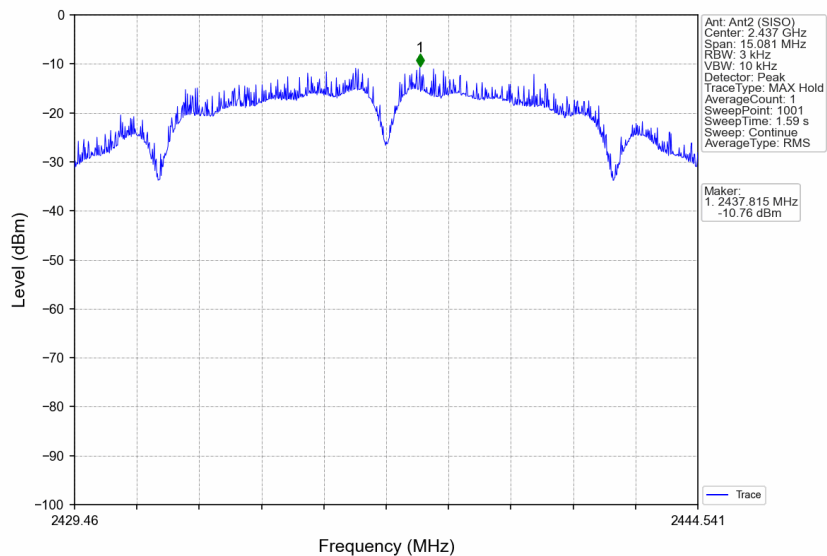
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802.11b MCH 2437MHz Ant1 (SISO) NTVN



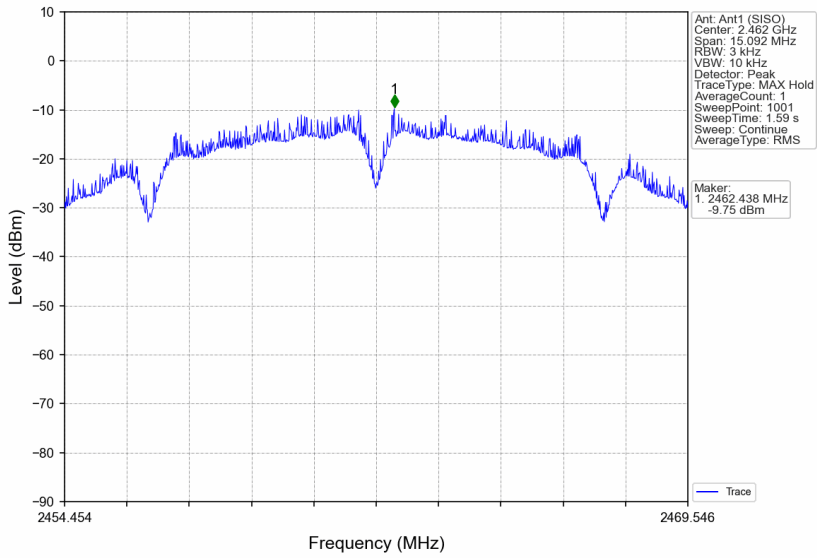
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



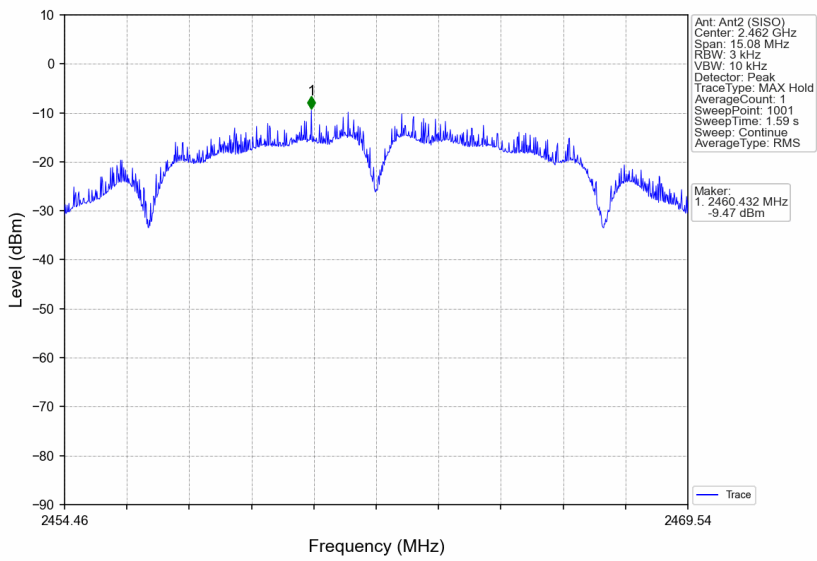
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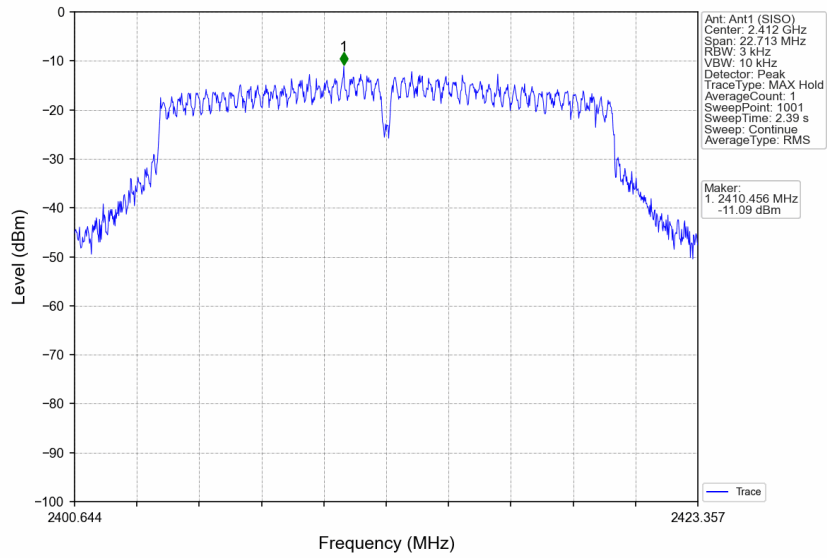
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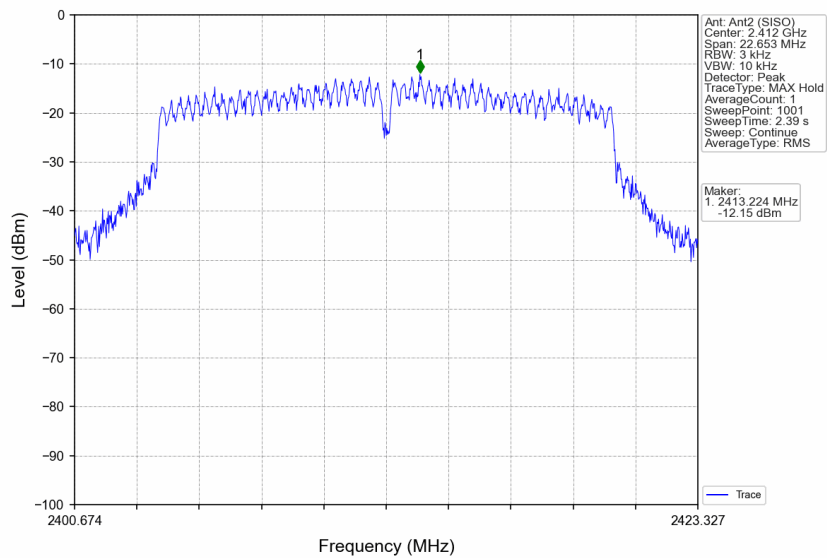
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802.11g_LCH_2412MHz_Ant1 (SISO) NTN



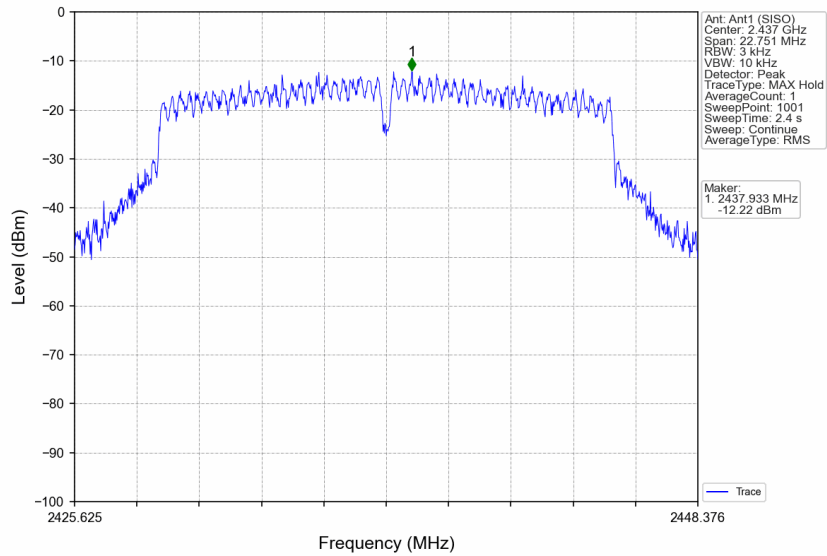
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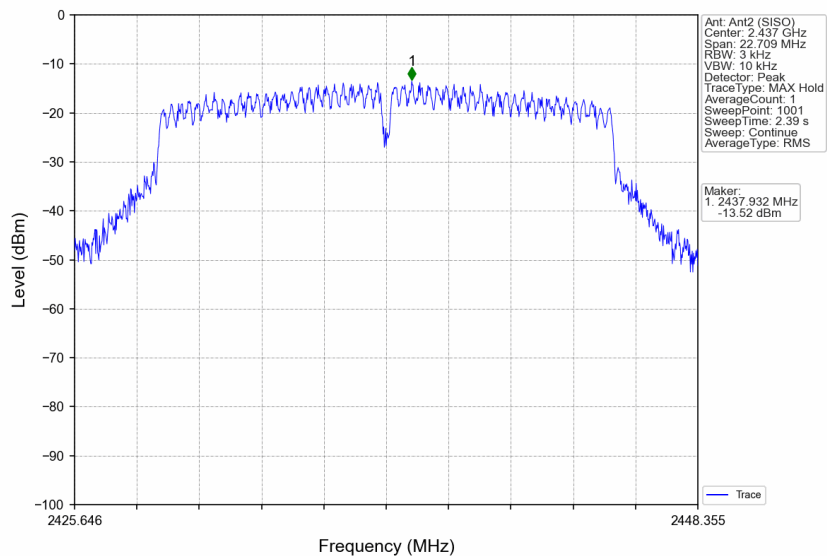
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802.11g MCH 2437MHz Ant1 (SISO) NTVN



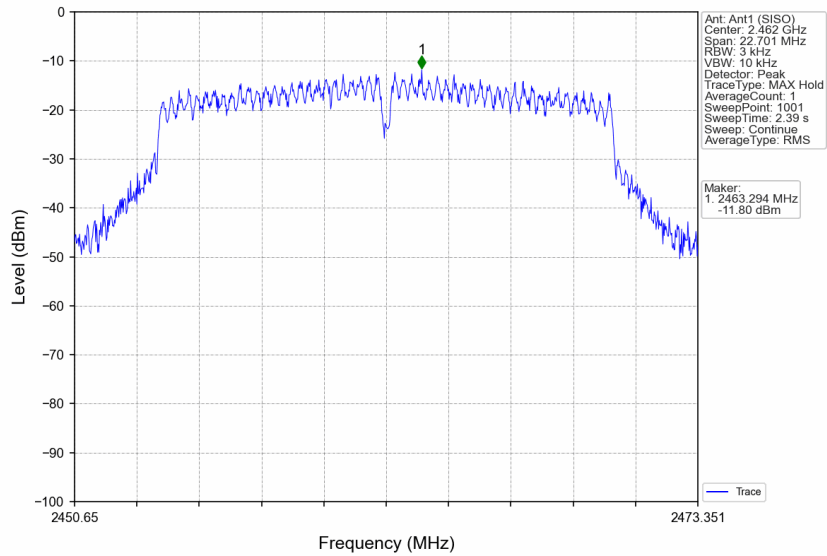
802.11g MCH 2437MHz Ant2 (SISO) NTVN



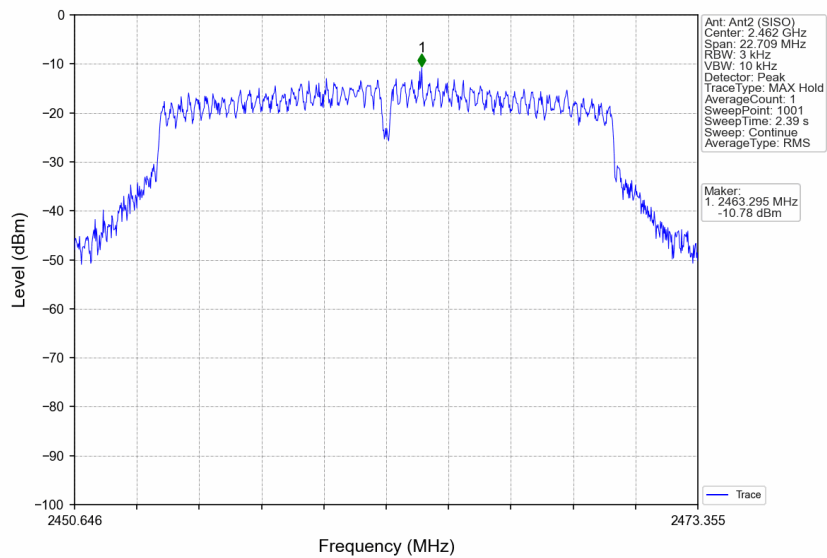
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802.11g HCH 2462MHz Ant1 (SISO) NTN



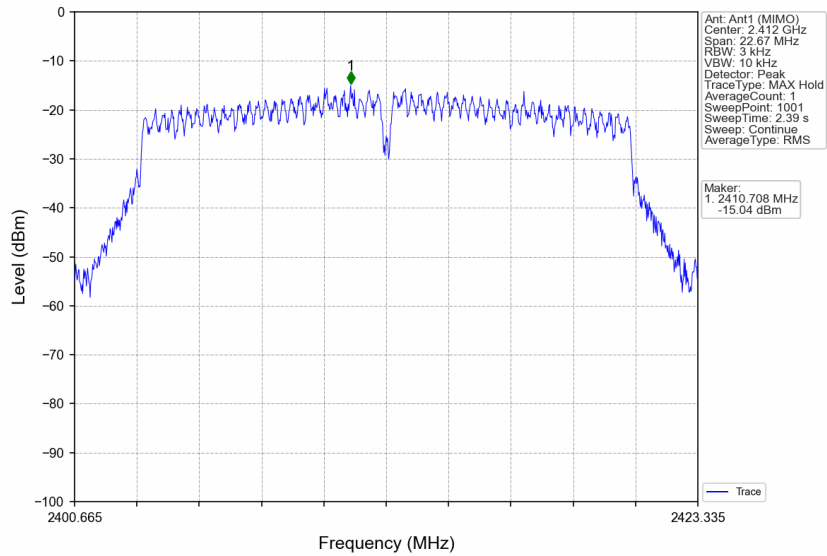
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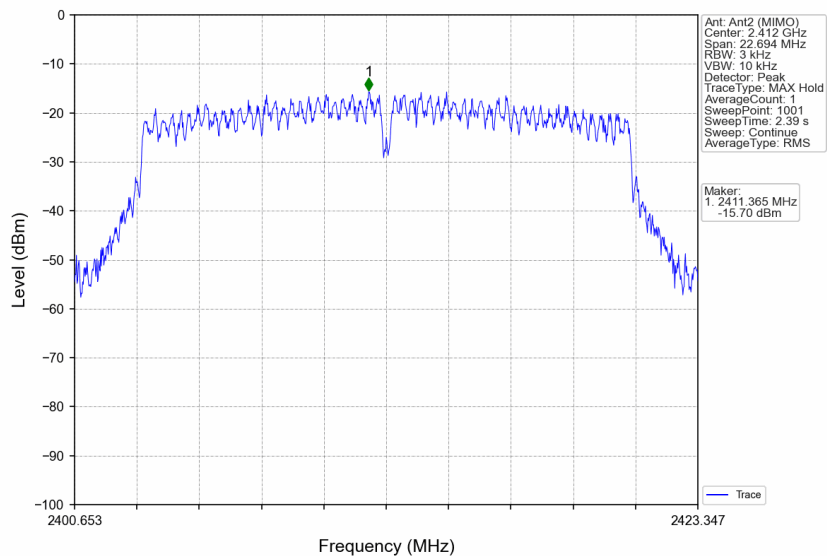
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN

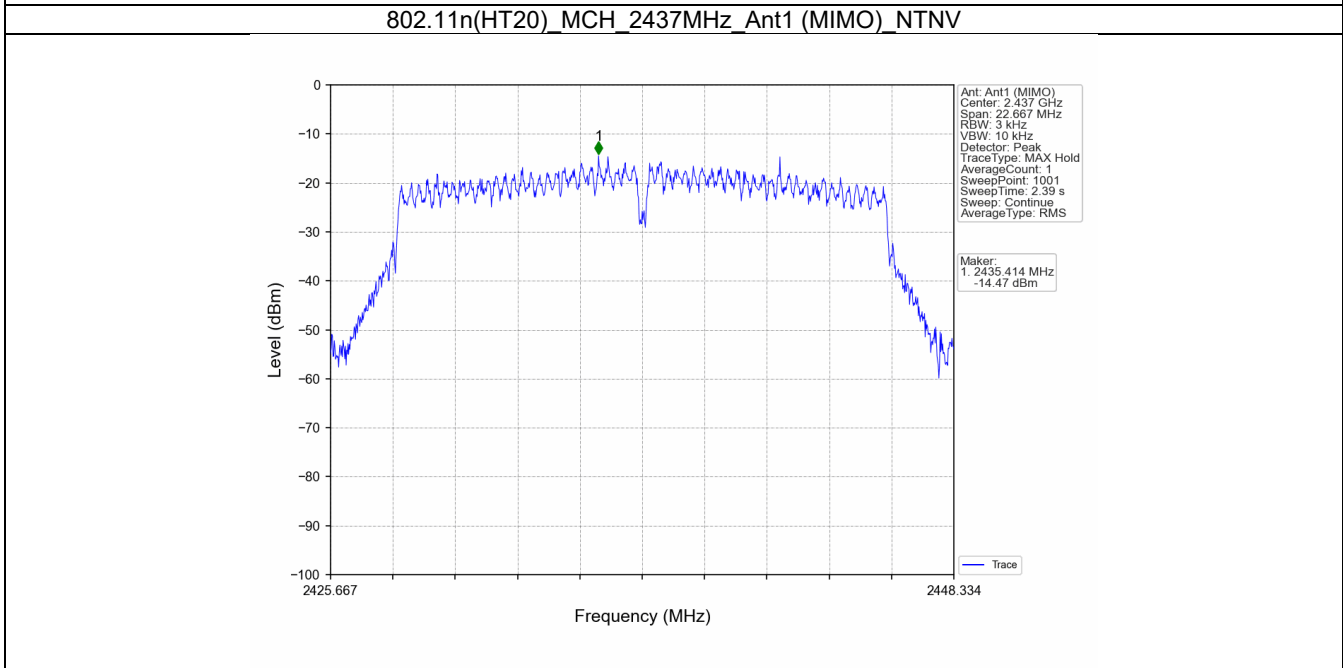
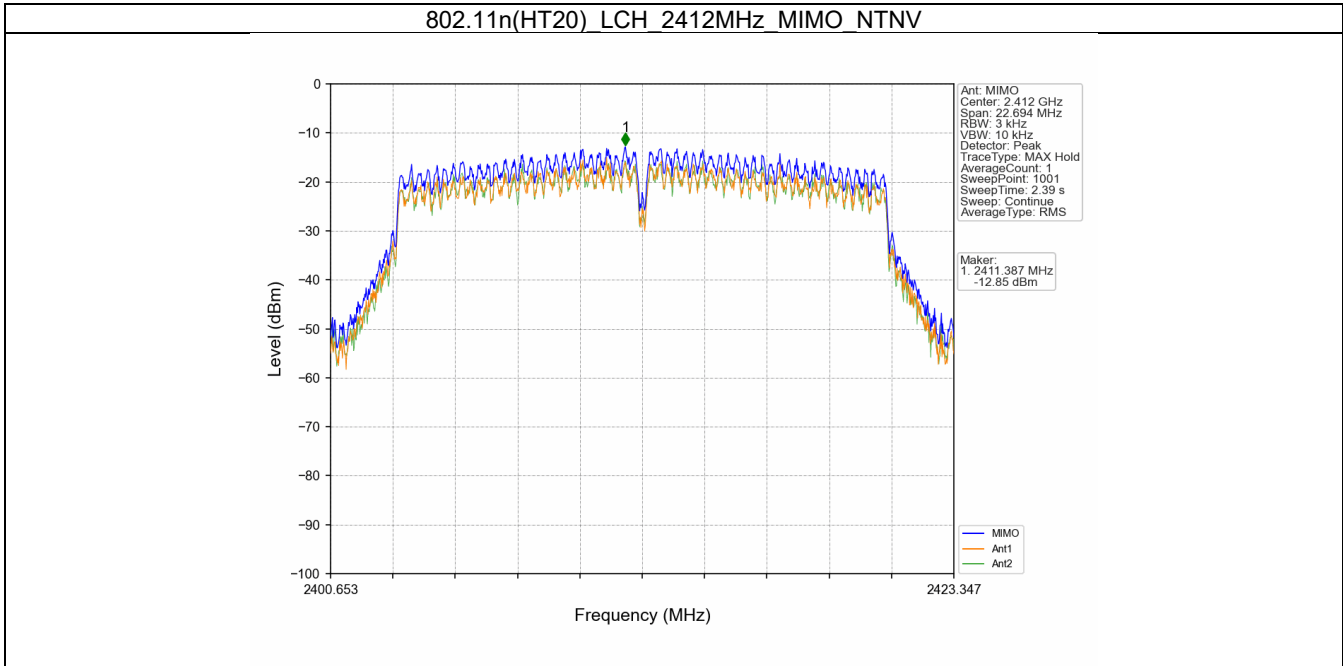


802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



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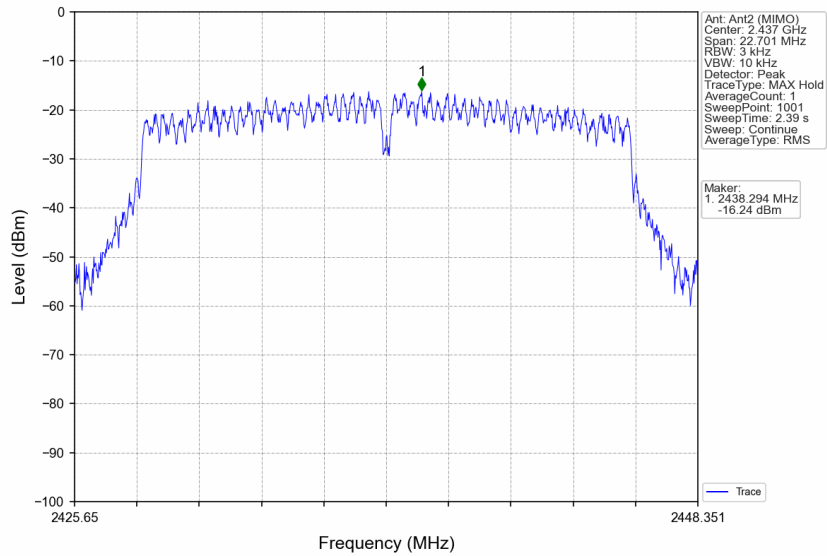
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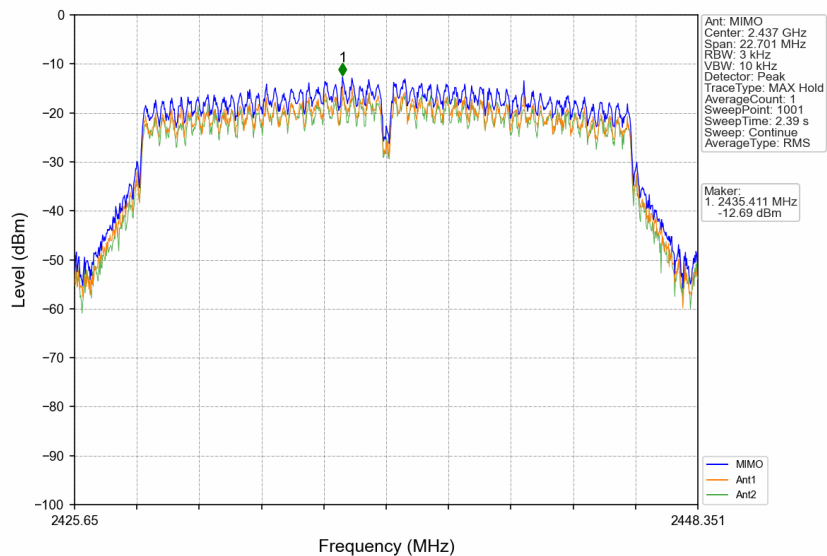
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802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTVN



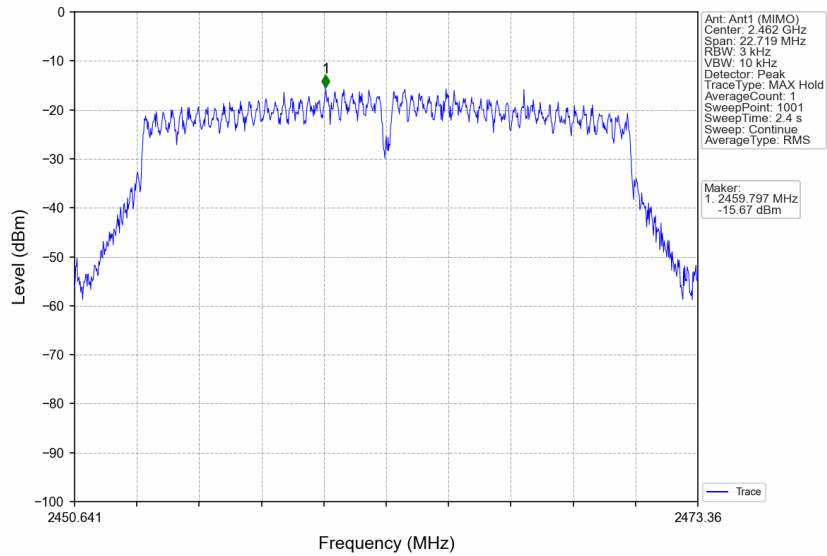
802.11n(HT20) MCH 2437MHz MIMO NTVN



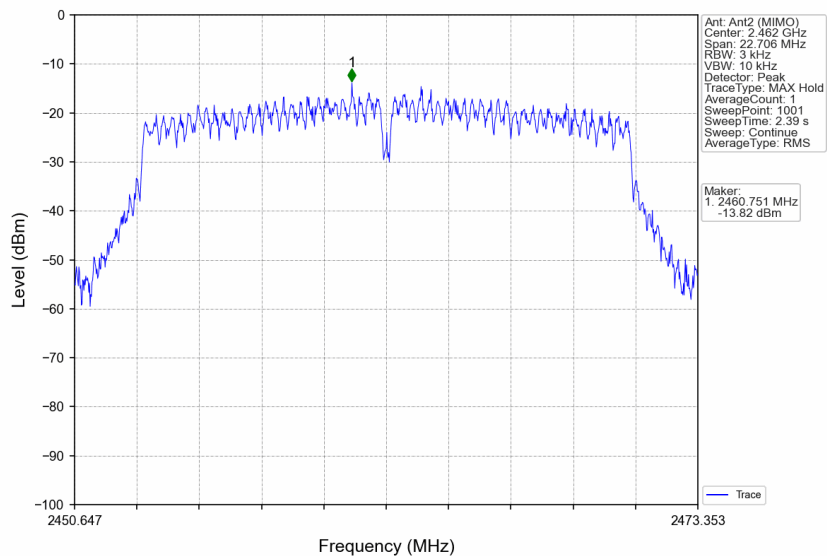
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN

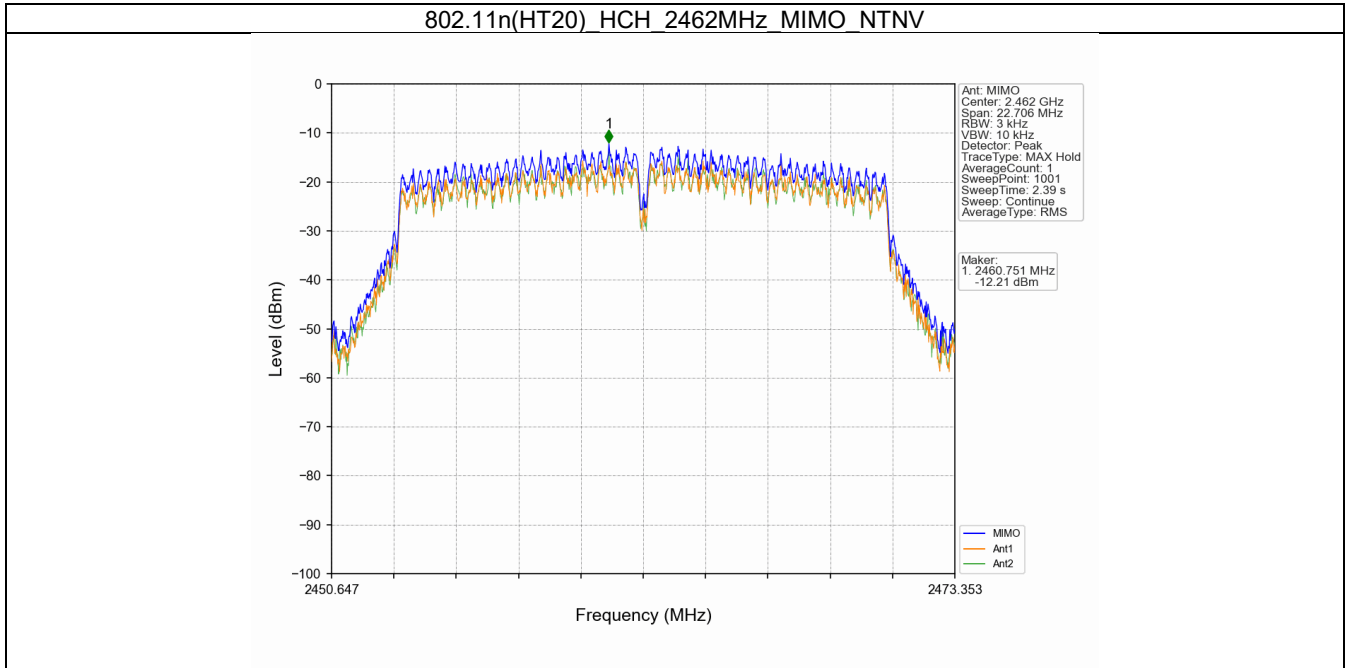


802.11n(HT20) HCH 2462MHz_Ant2 (MIMO) NTN



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

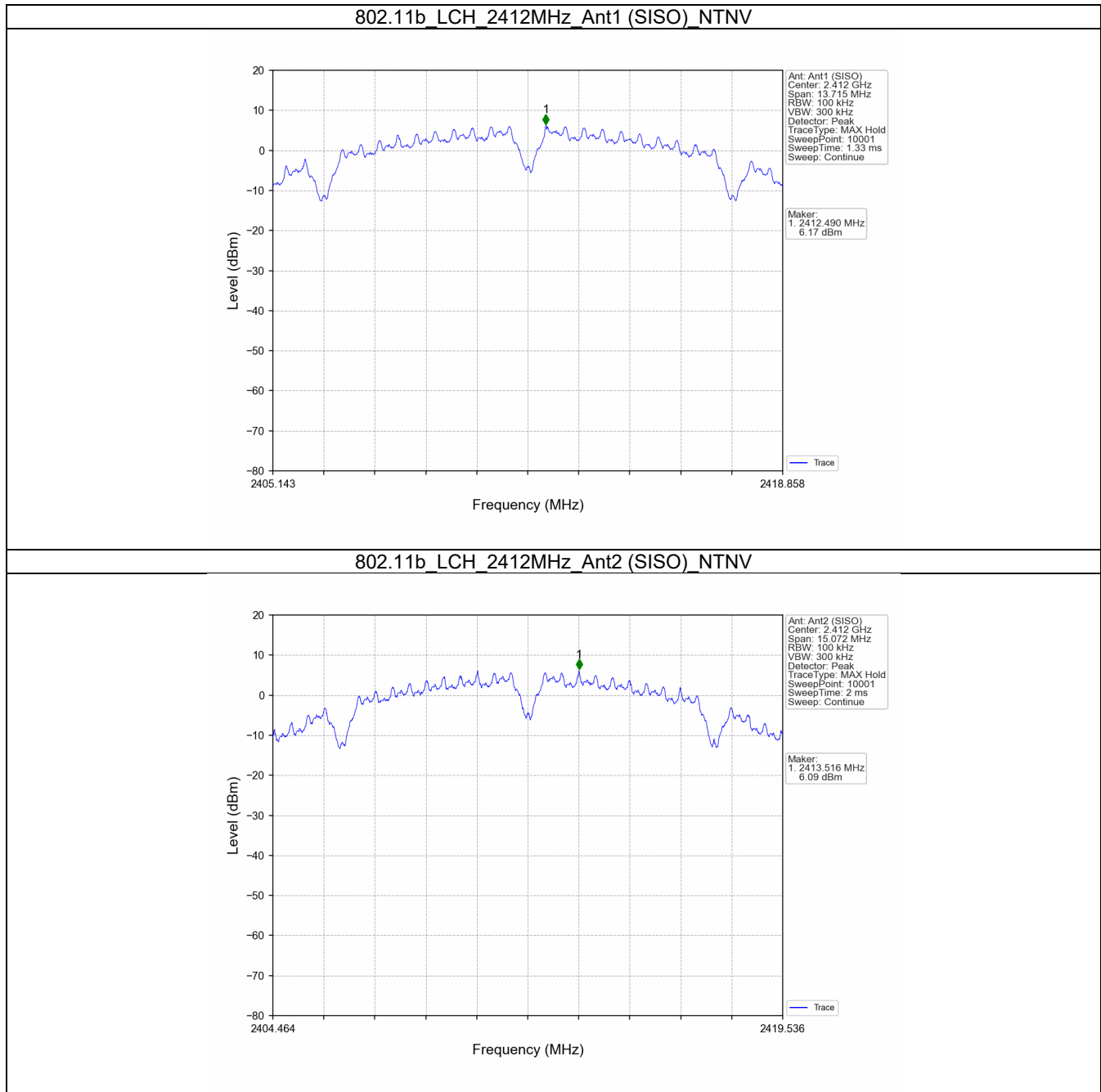
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	6.17
			2	6.09
		2437	1	5.94
			2	5.81
		2462	1	6.55
			2	6.26
802.11g	SISO	2412	1	5.05
			2	4.54
		2437	1	4.88
			2	3.71
		2462	1	4.84
			2	4.55
802.11n (HT20)	MIMO	2412	1	1.93
			2	1.15
		2437	1	1.85
			2	0.80
		2462	1	1.42
			2	1.33

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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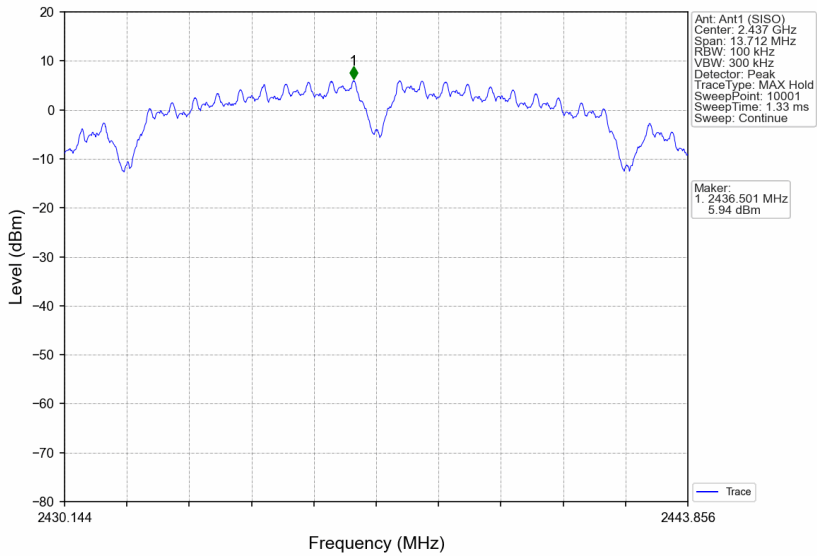
5.1.2 Test Graph



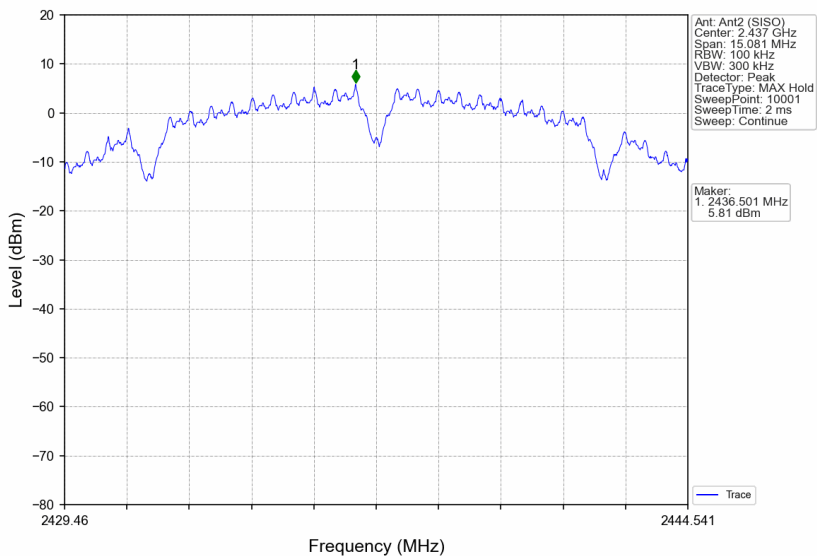
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802.11b MCH 2437MHz Ant1 (SISO) NTN



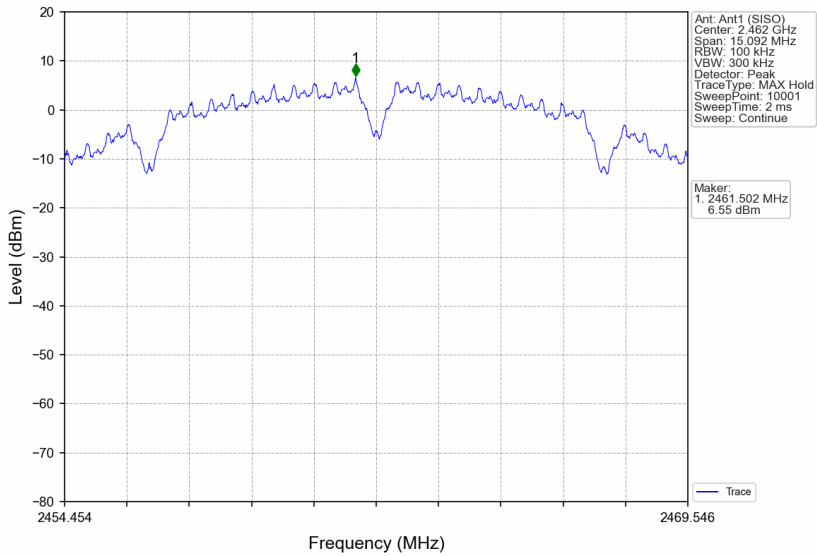
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



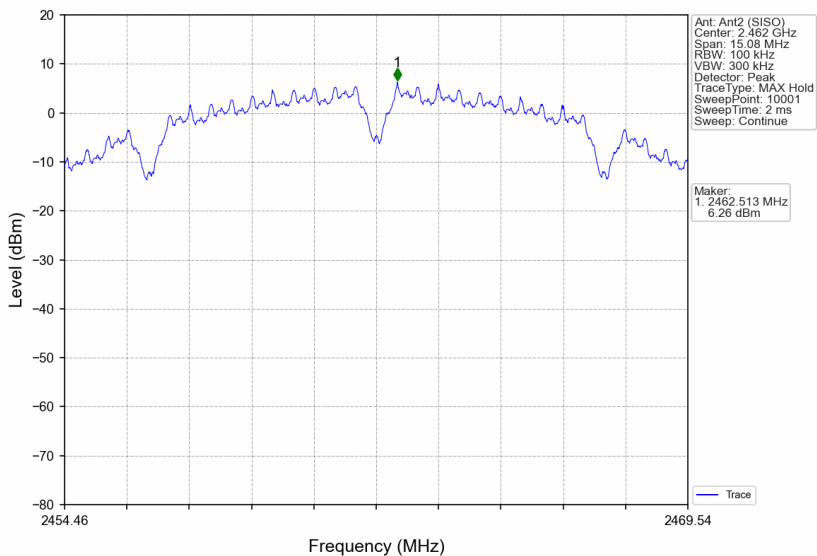
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802.11b HCH 2462MHz Ant1 (SISO) NTN



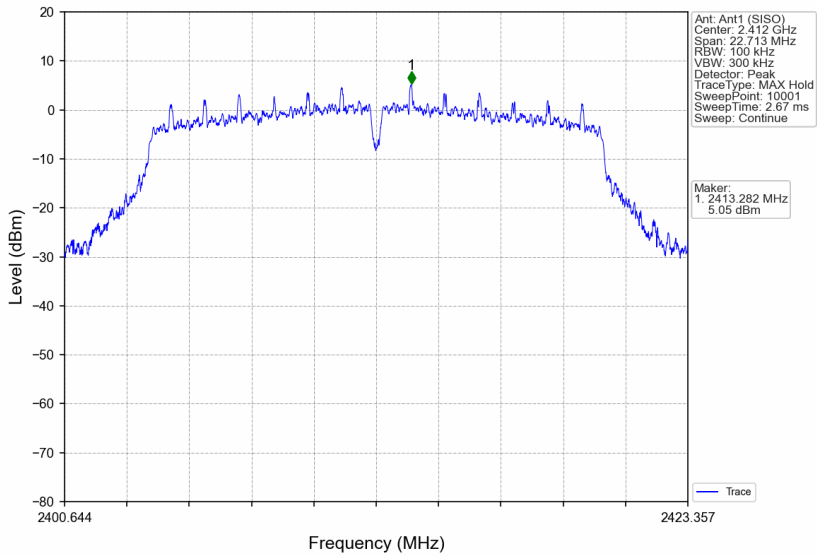
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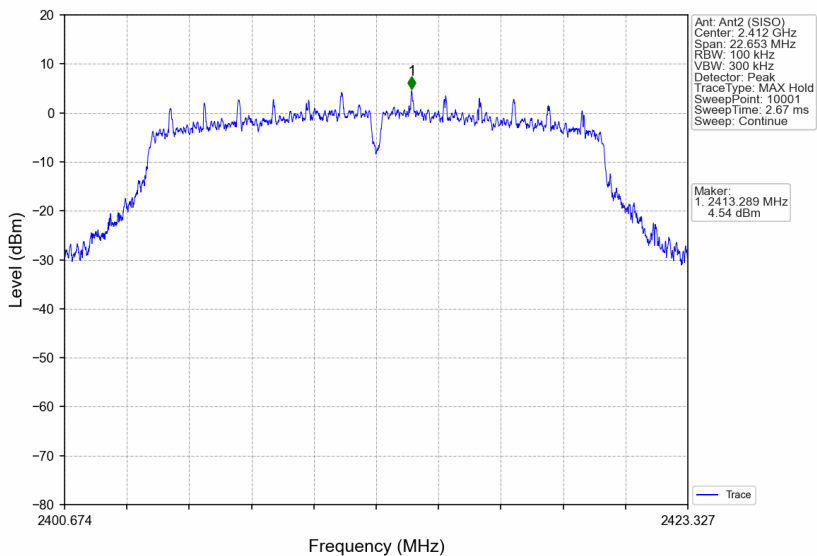
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802.11g_LCH_2412MHz_Ant1 (SISO) NTN



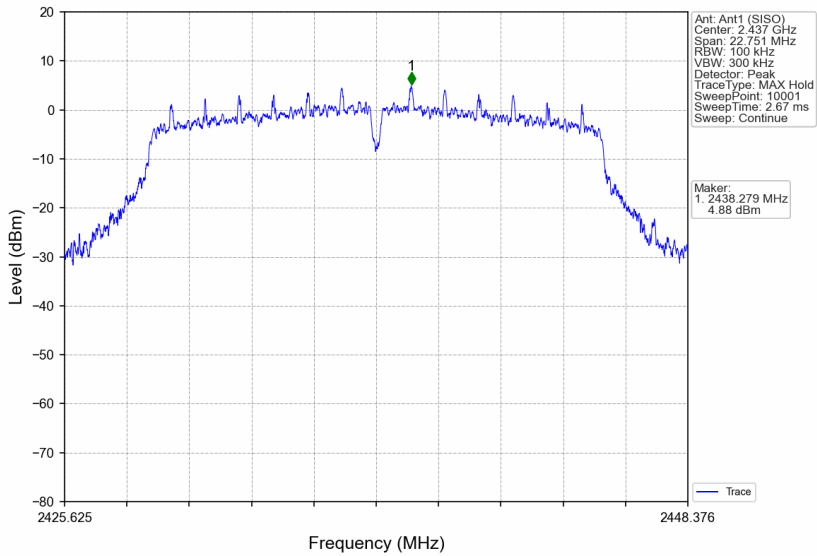
802.11g_LCH_2412MHz_Ant2 (SISO) NTN



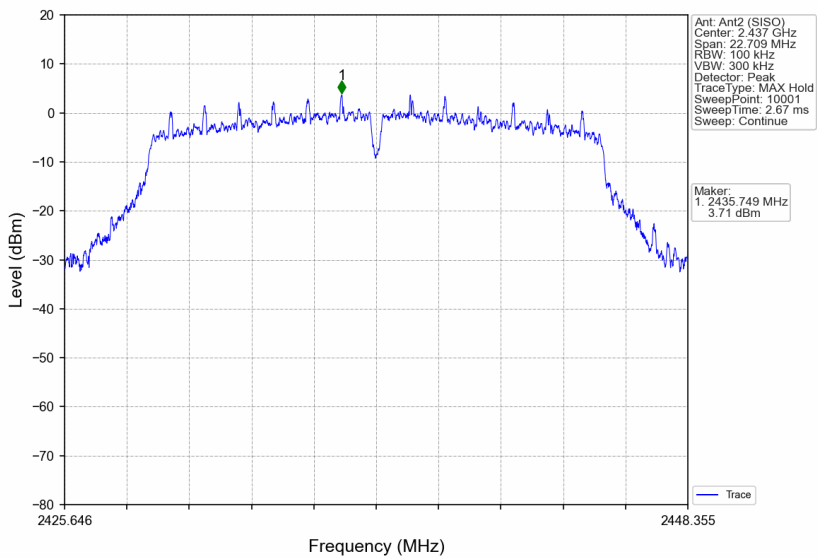
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802.11g MCH 2437MHz Ant1 (SISO) NTVN



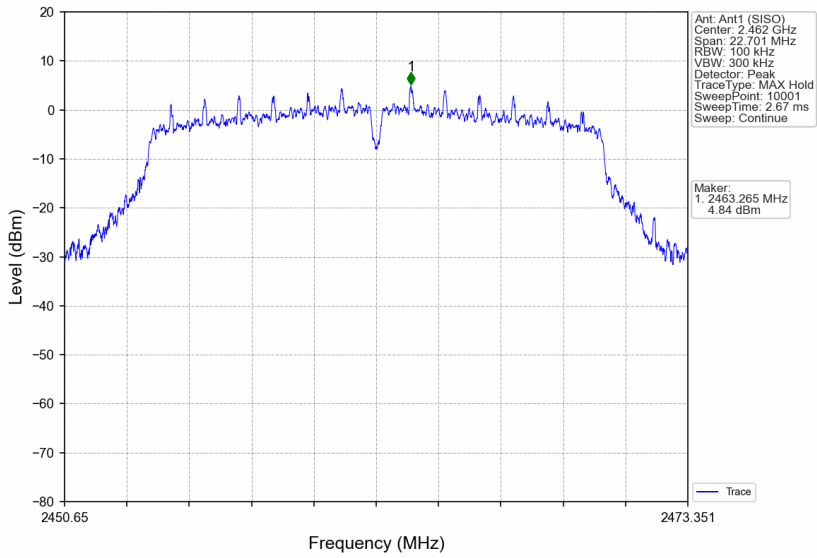
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



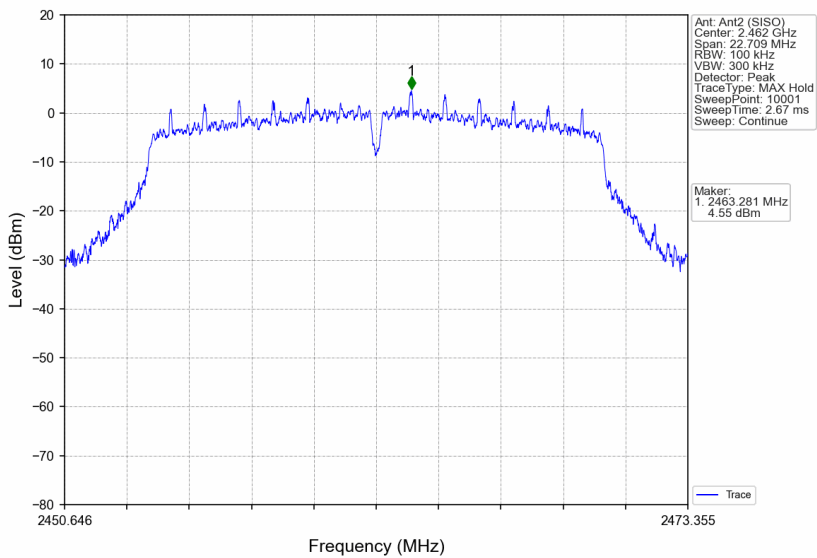
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802.11g HCH 2462MHz Ant1 (SISO) NTN



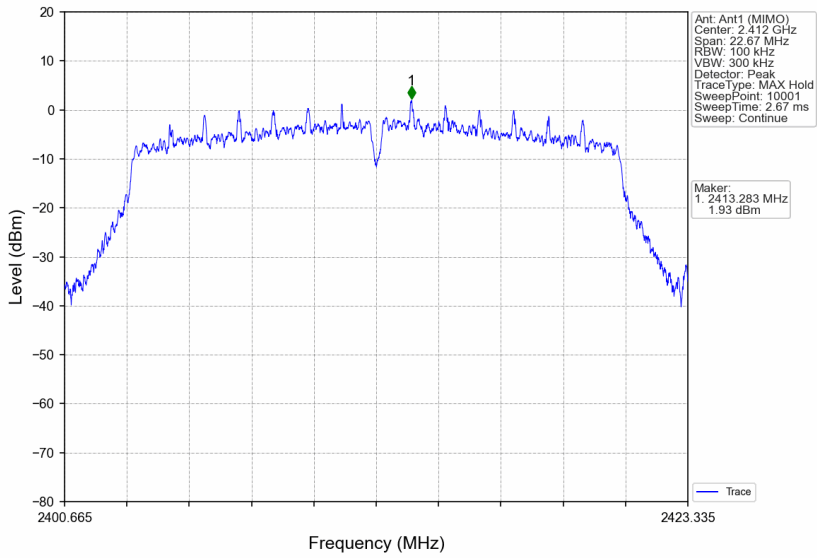
802.11g HCH 2462MHz Ant2 (SISO) NTN



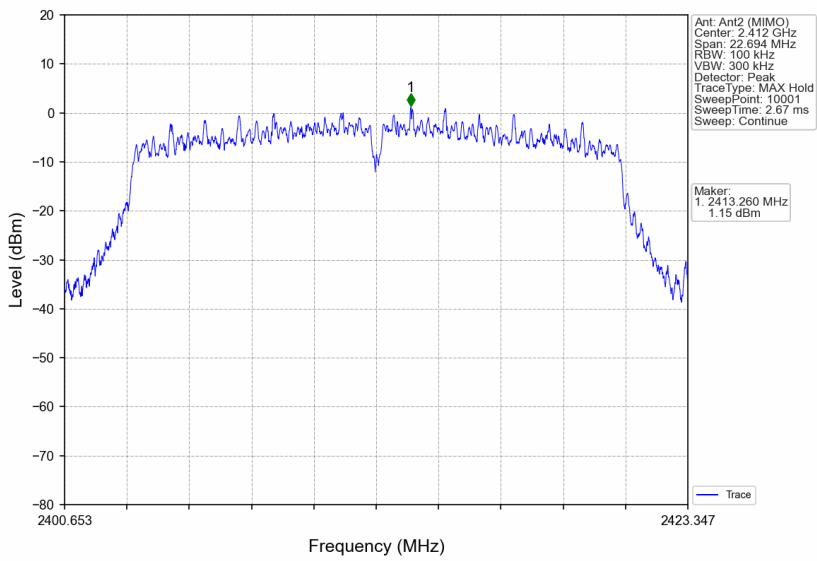
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



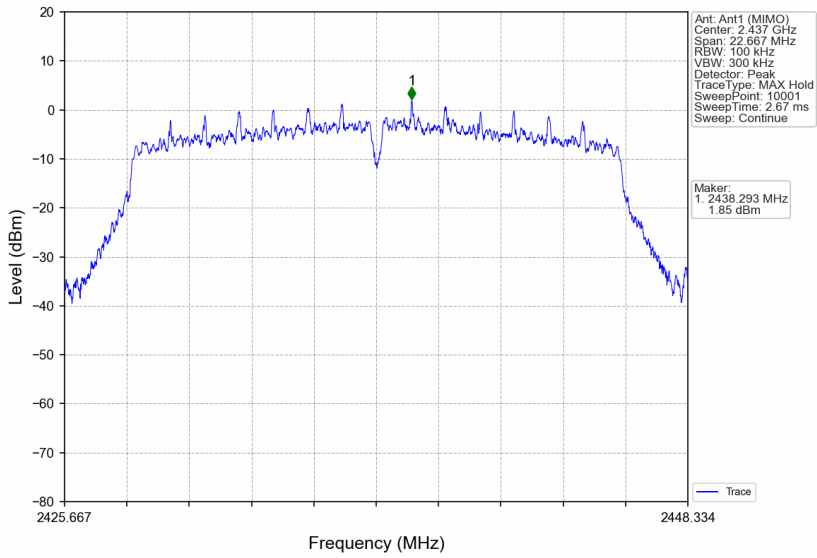
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



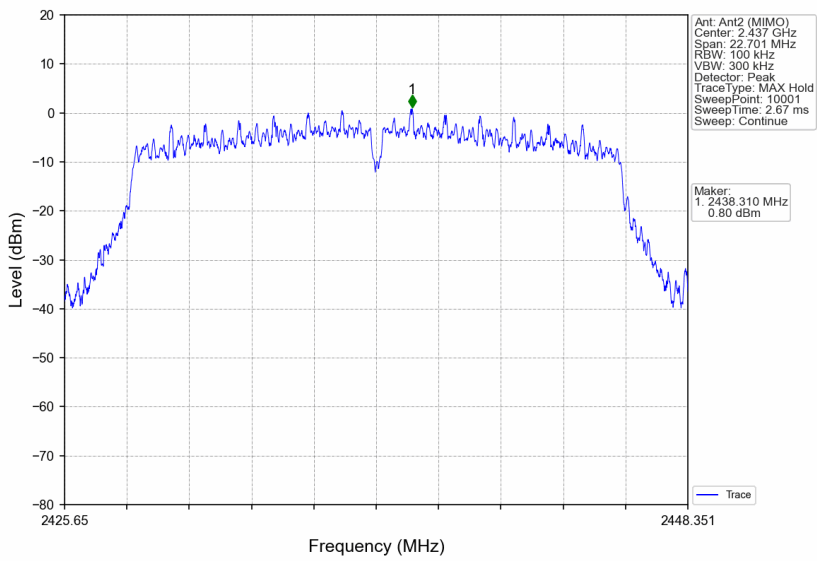
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802.11n(HT20) MCH_2437MHz Ant1 (MIMO) NTN



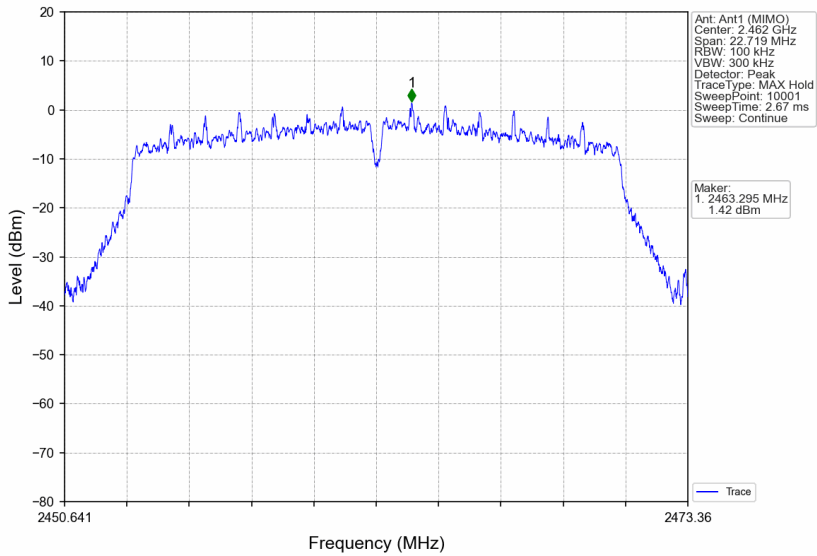
802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



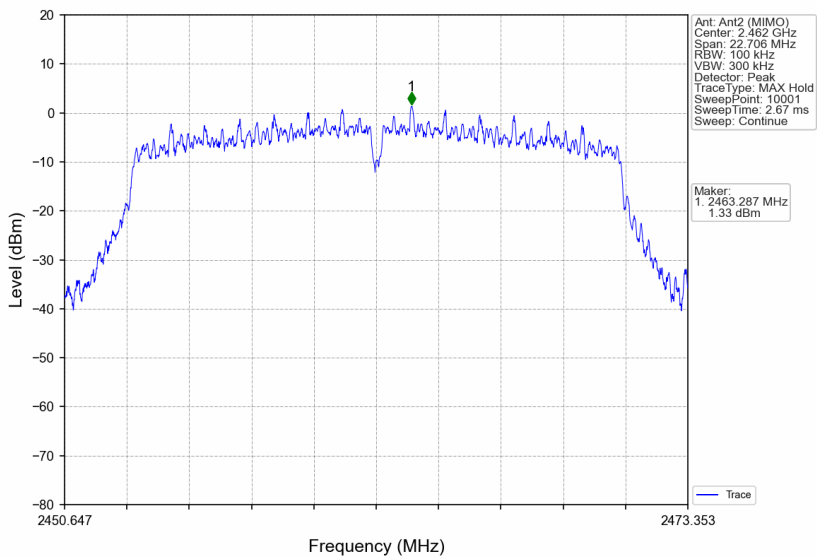
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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	6.55	-23.45	Pass
			2	6.26	-23.74	Pass
		2437	1	6.55	-23.45	Pass
			2	6.26	-23.74	Pass
		2462	1	6.55	-23.45	Pass
			2	6.26	-23.74	Pass
802.11g	SISO	2412	1	5.05	-24.95	Pass
			2	4.55	-25.45	Pass
		2437	1	5.05	-24.95	Pass
			2	4.55	-25.45	Pass
		2462	1	5.05	-24.95	Pass
			2	4.55	-25.45	Pass
802.11n (HT20)	MIMO	2412	1	1.93	-28.07	Pass
			2	1.33	-28.67	Pass
		2437	1	1.93	-28.07	Pass
			2	1.33	-28.67	Pass
		2462	1	1.93	-28.07	Pass
			2	1.33	-28.67	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.

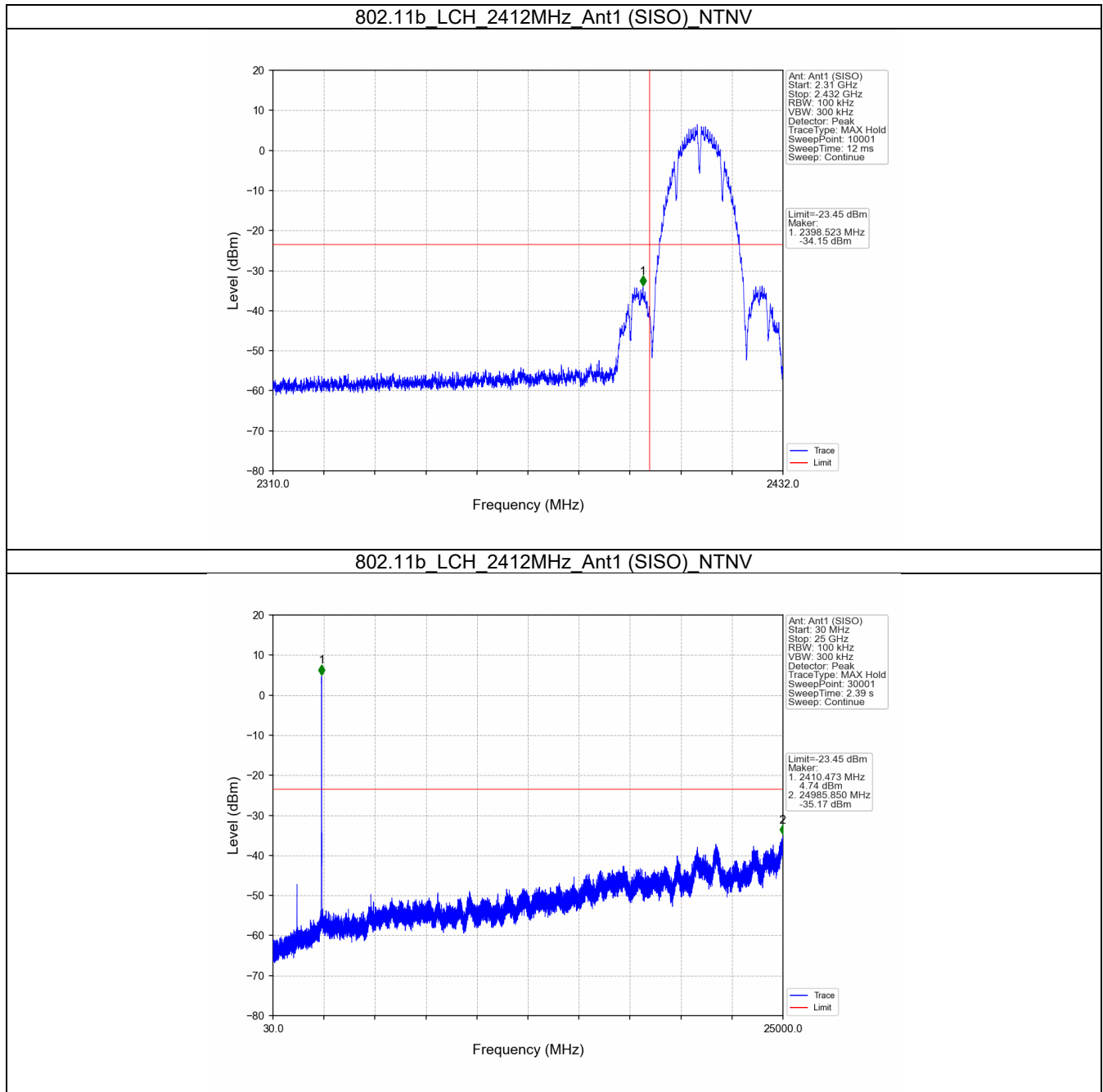
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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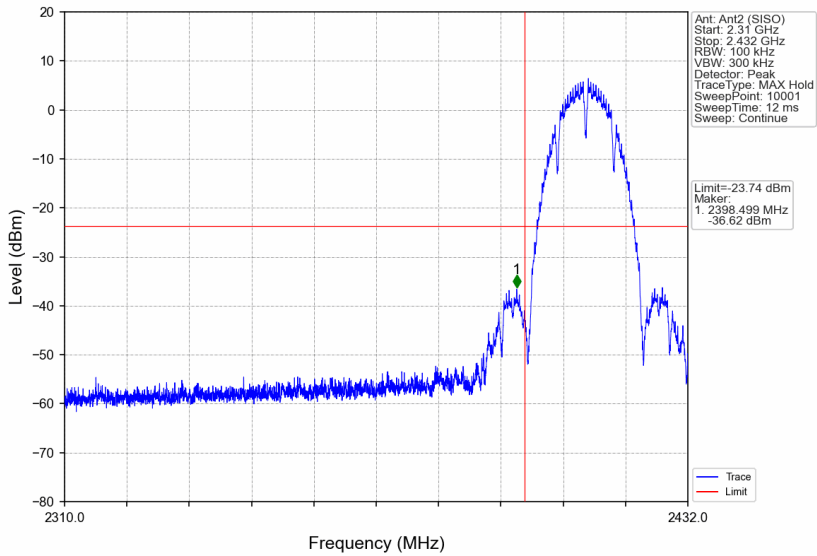
5.2.2 Test Graph



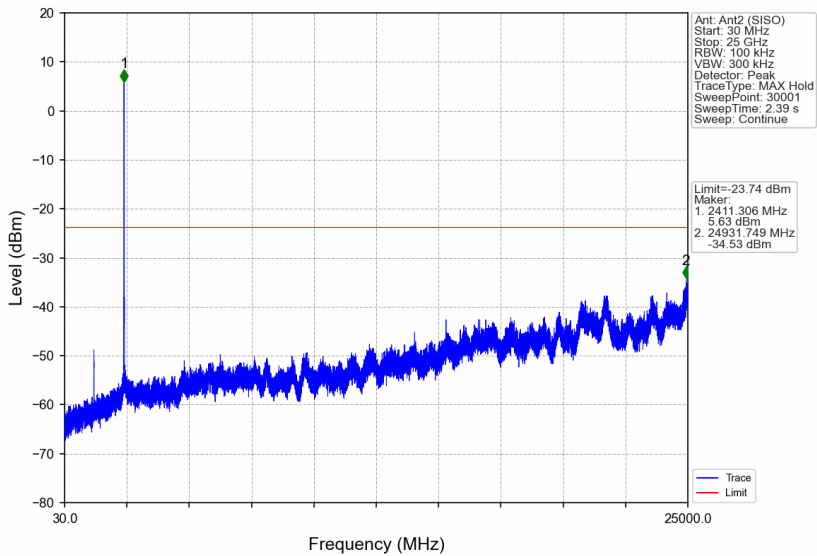
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802.11b LCH 2412MHz Ant2 (SISO) NTN



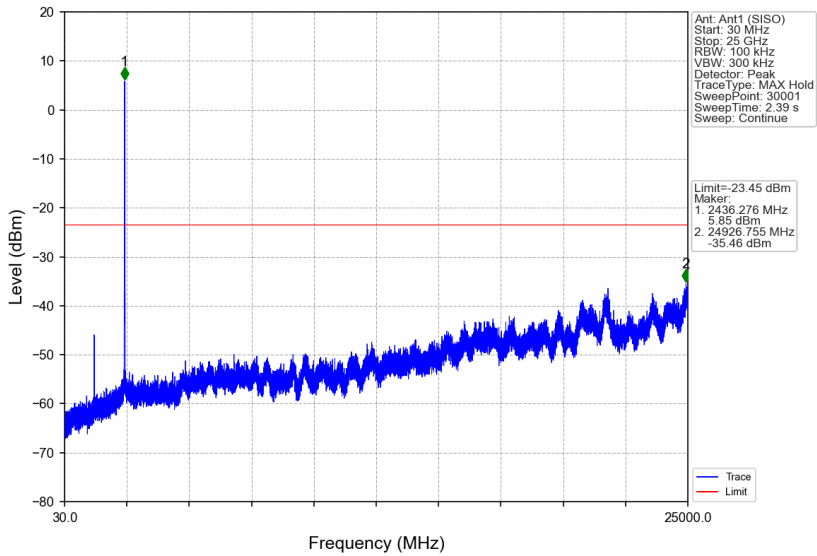
802.11b LCH 2412MHz Ant2 (SISO) NTN



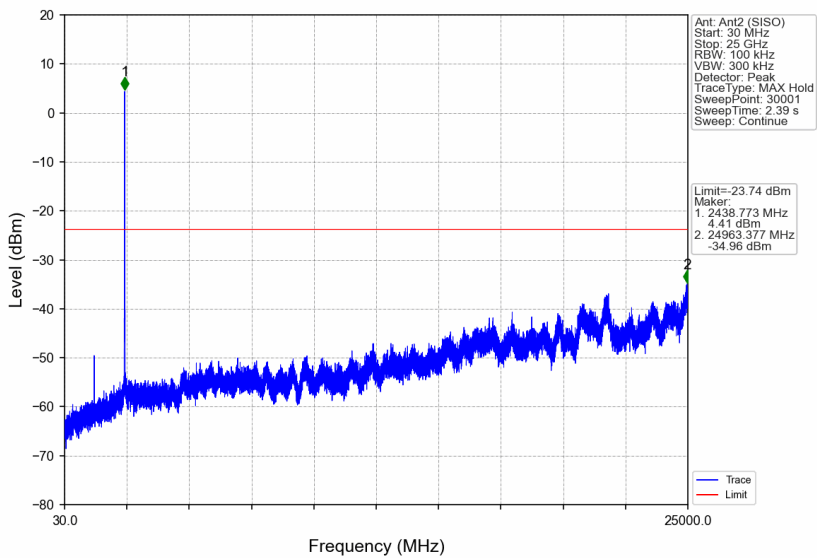
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802.11b MCH 2437MHz Ant1 (SISO) NTVN



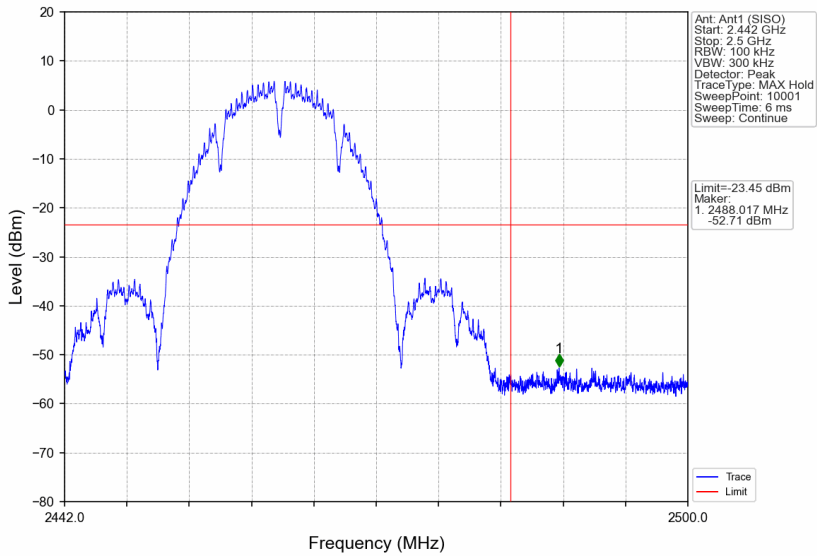
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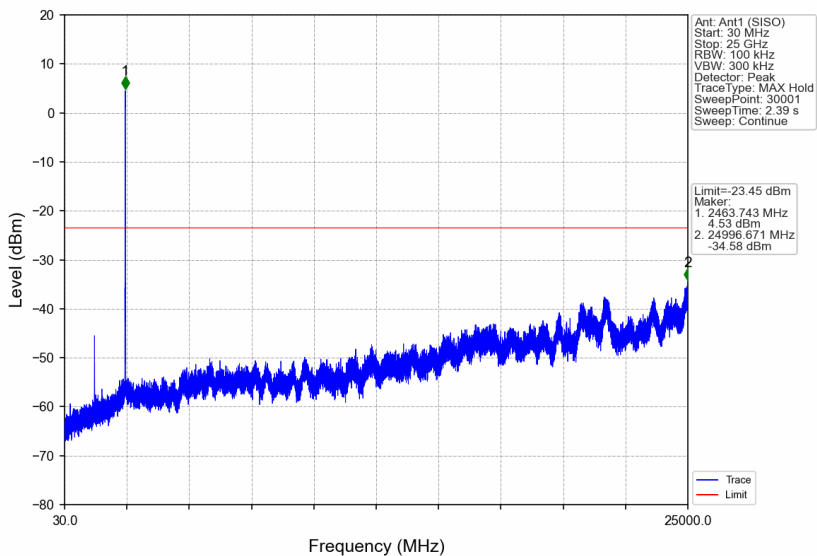
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802.11b HCH 2462MHz Ant1 (SISO) NTN



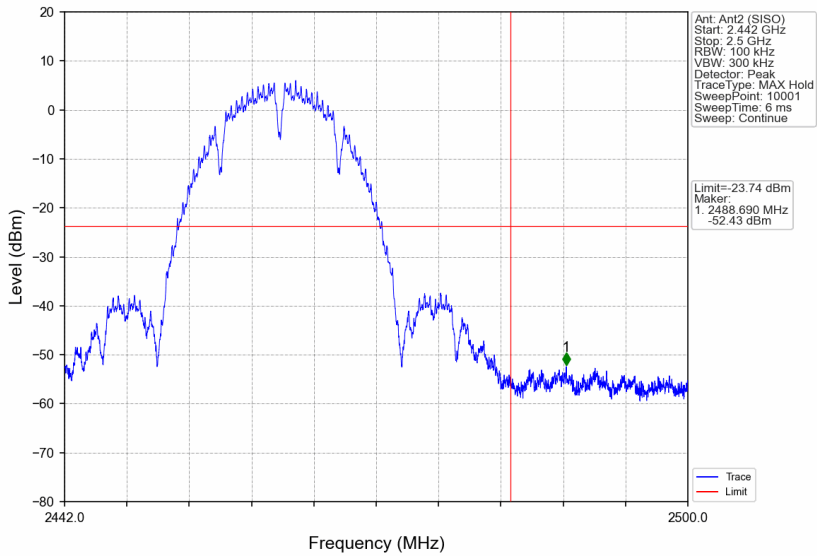
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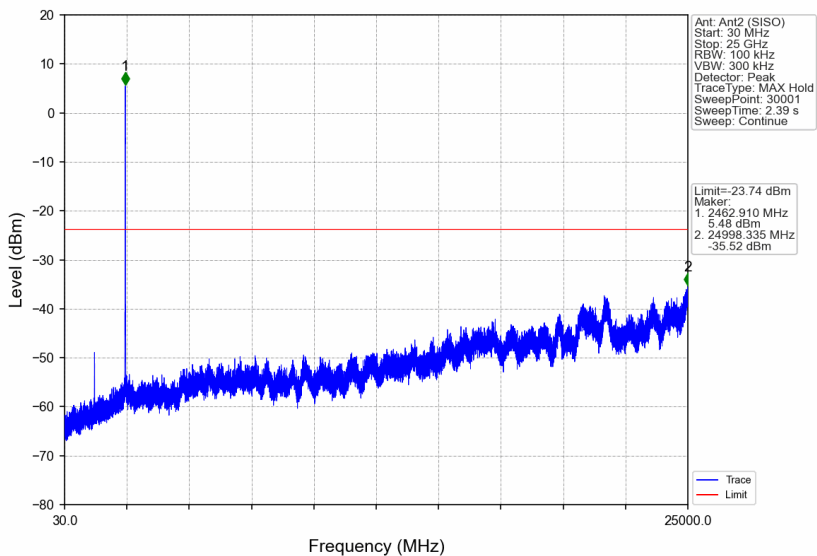
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802.11b HCH 2462MHz Ant2 (SISO) NTN



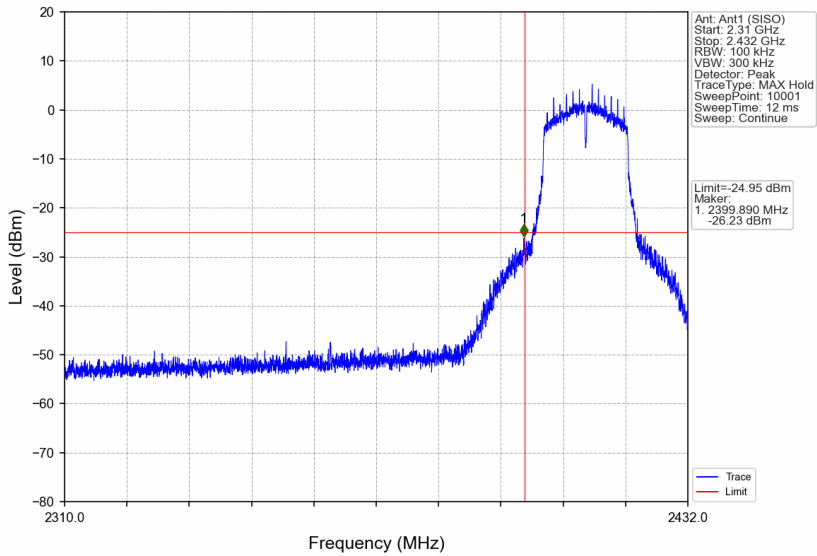
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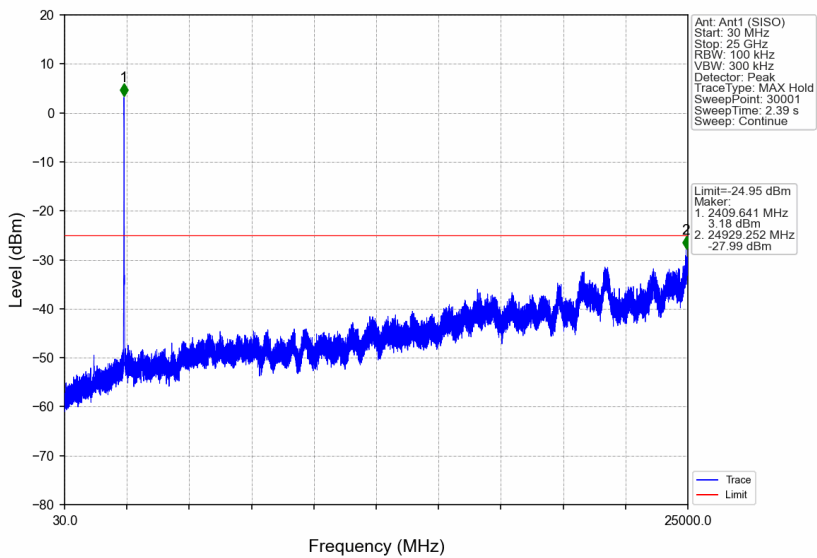
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802.11g_LCH_2412MHz_Ant1 (SISO) NTN



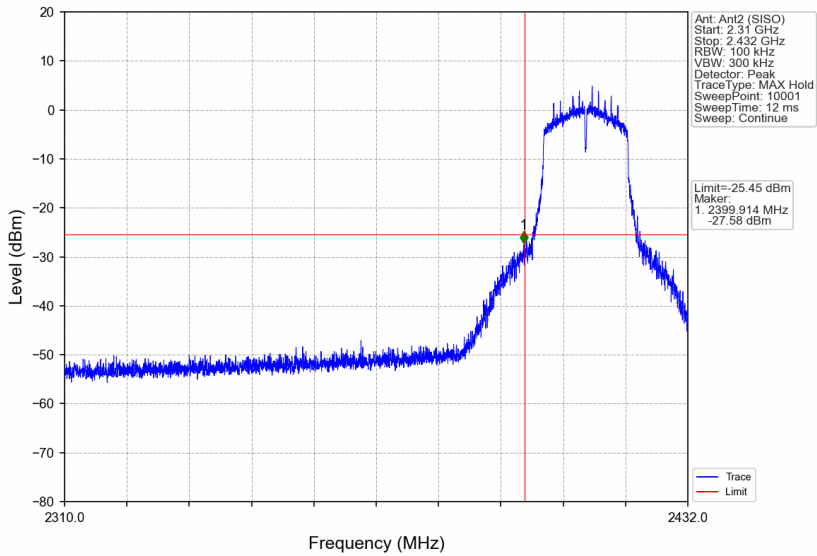
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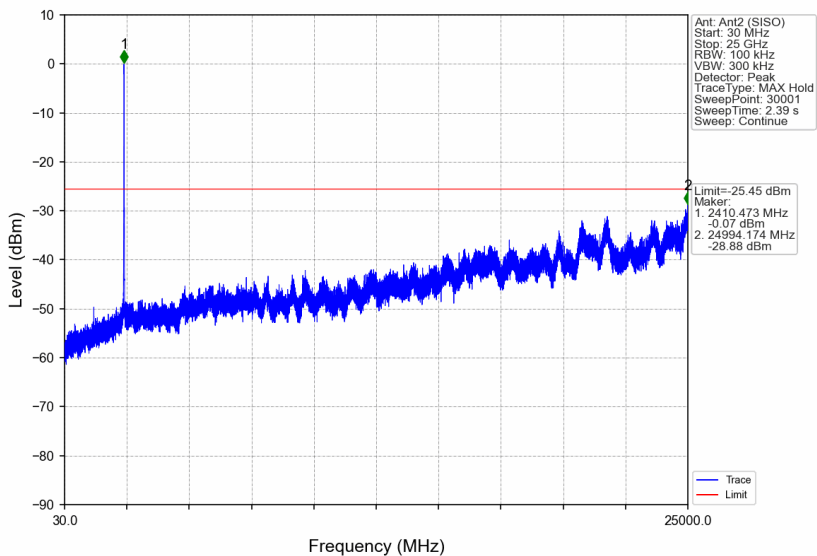
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802.11g_LCH_2412MHz_Ant2 (SISO) NTN



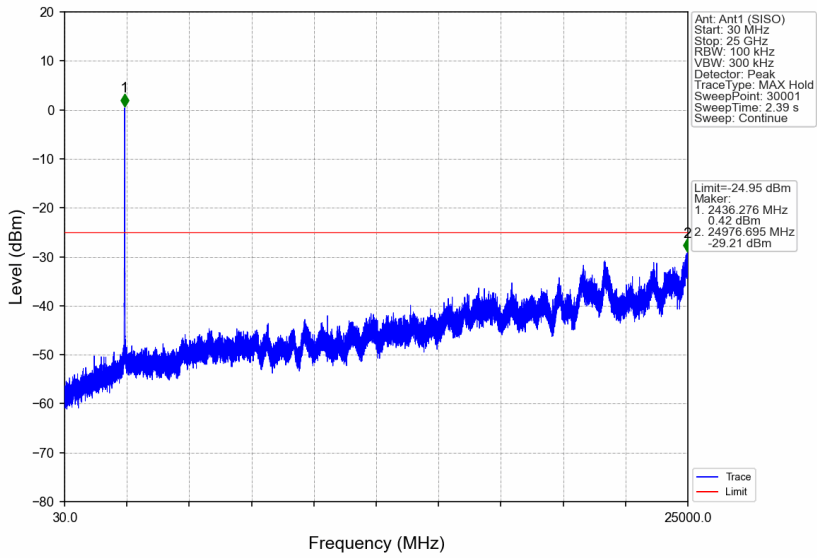
802.11g_LCH_2412MHz_Ant2 (SISO) NTN



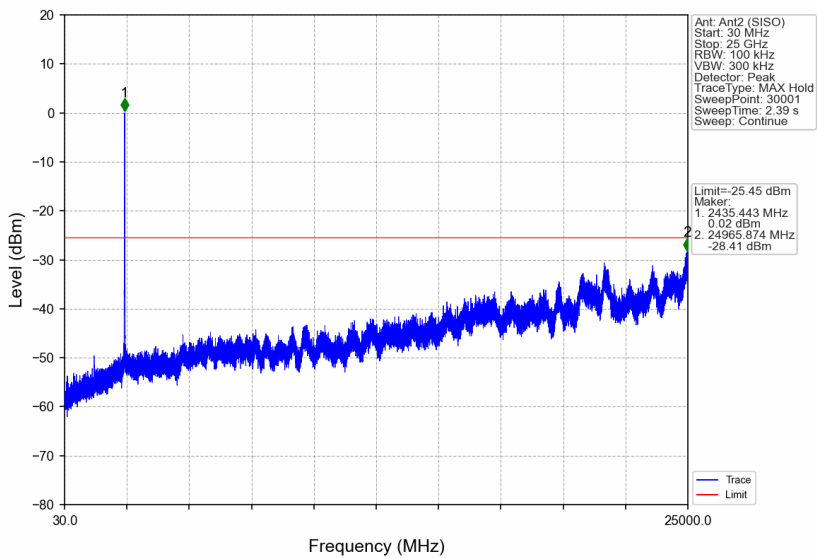
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802.11g MCH 2437MHz Ant1 (SISO) NTVN



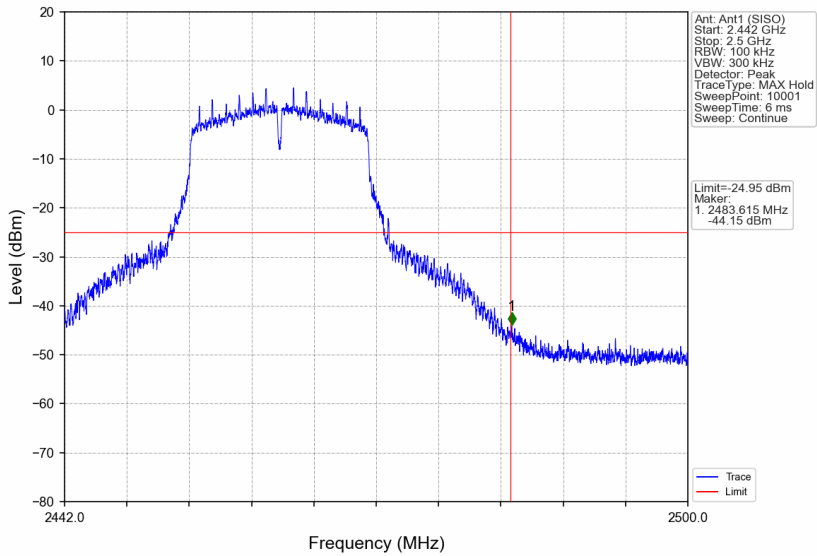
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



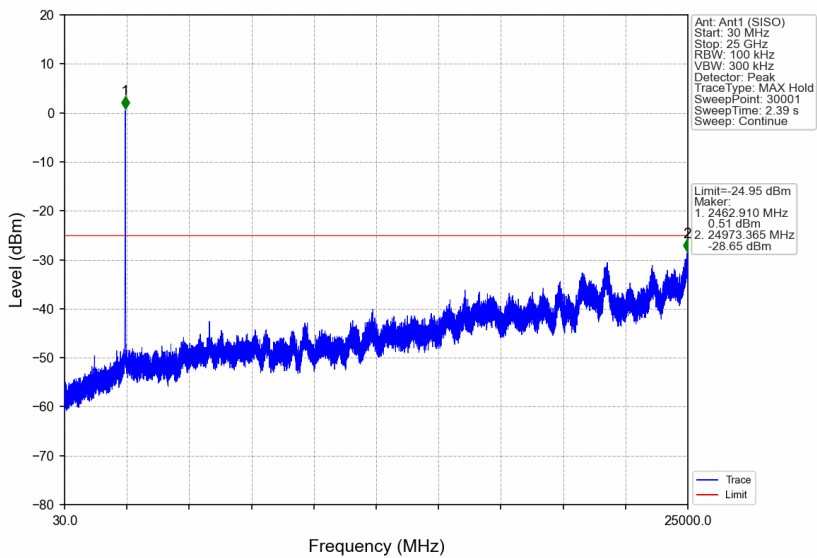
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802.11g_HCH_2462MHz_Ant1(SISO)_NTNV



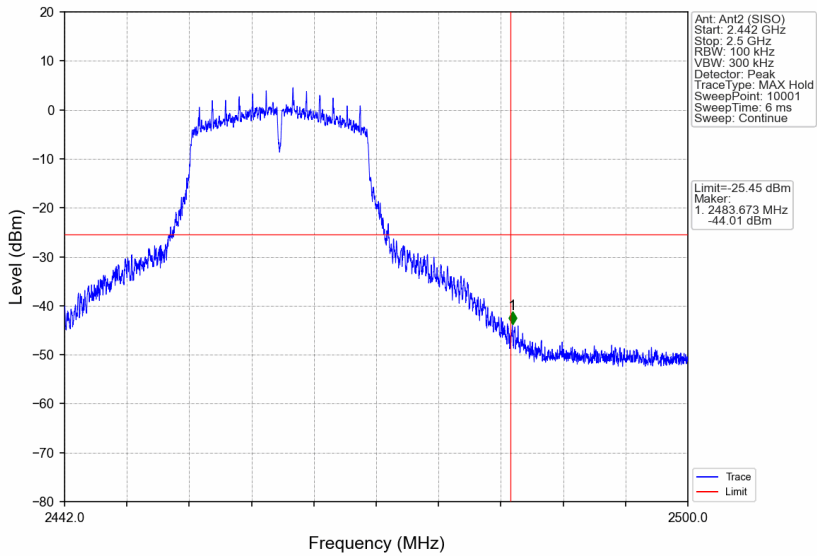
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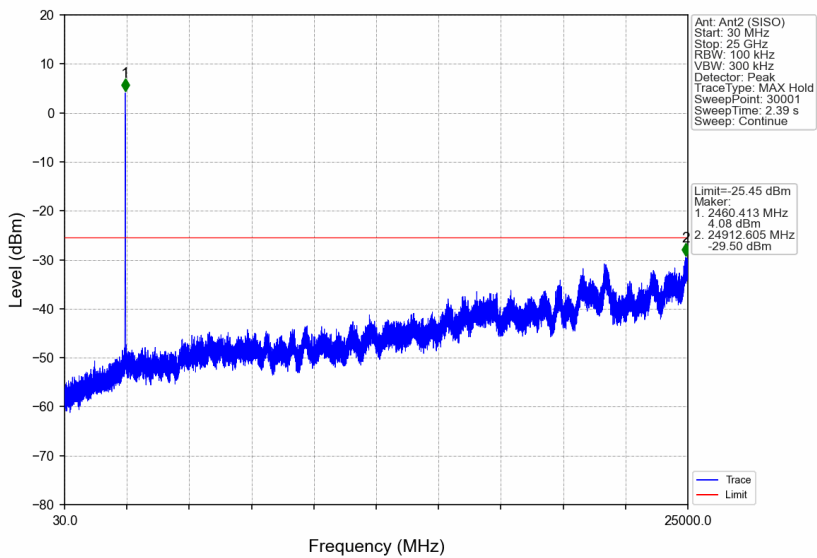
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802.11g HCH 2462MHz Ant2 (SISO) NTN



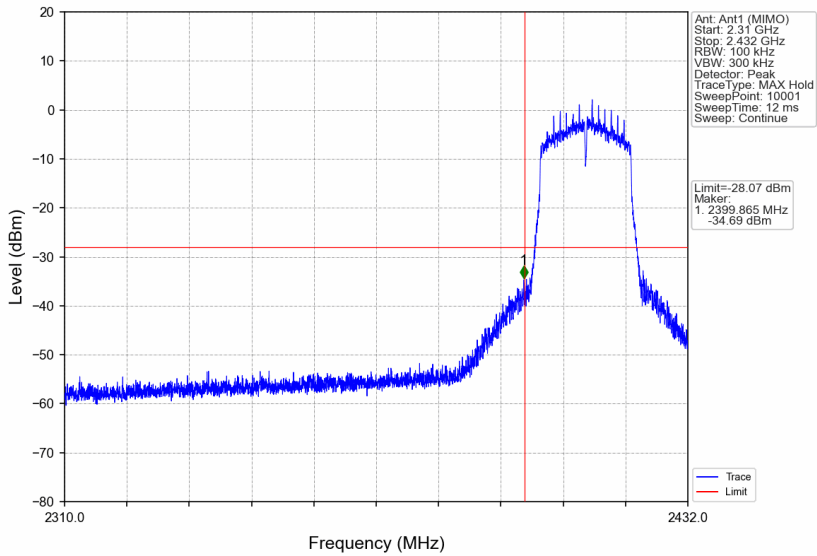
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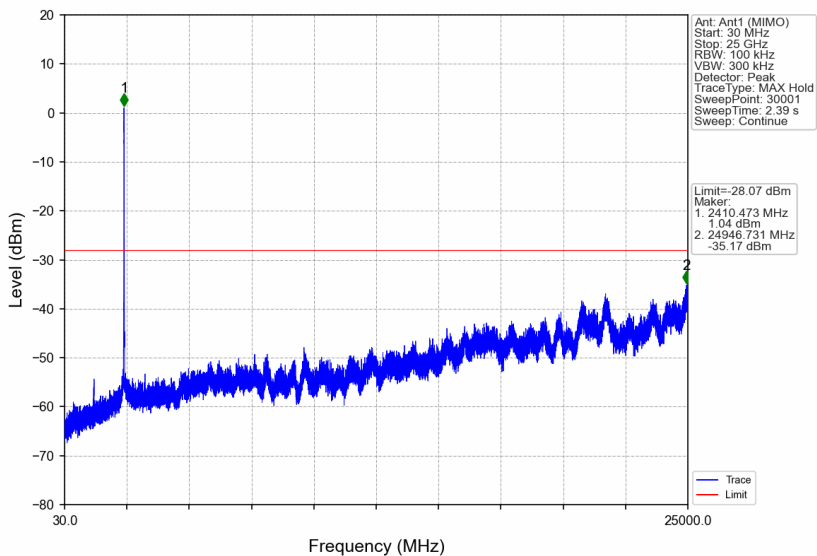
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



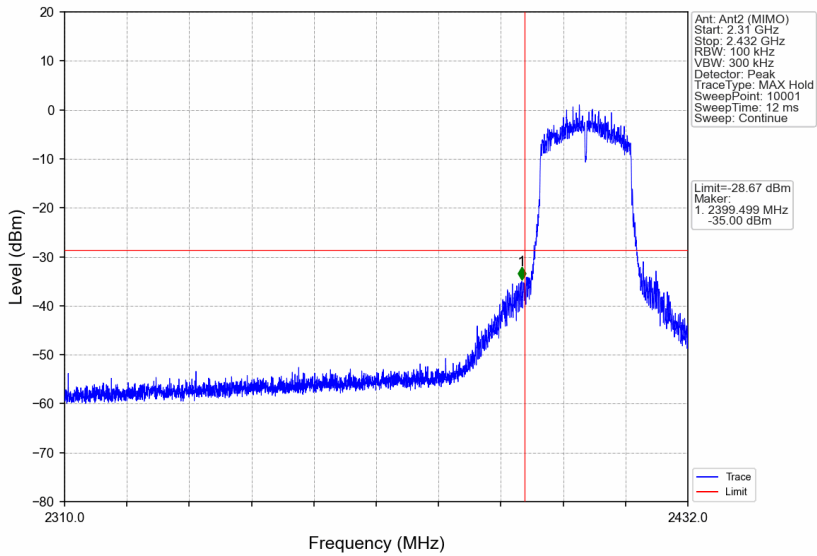
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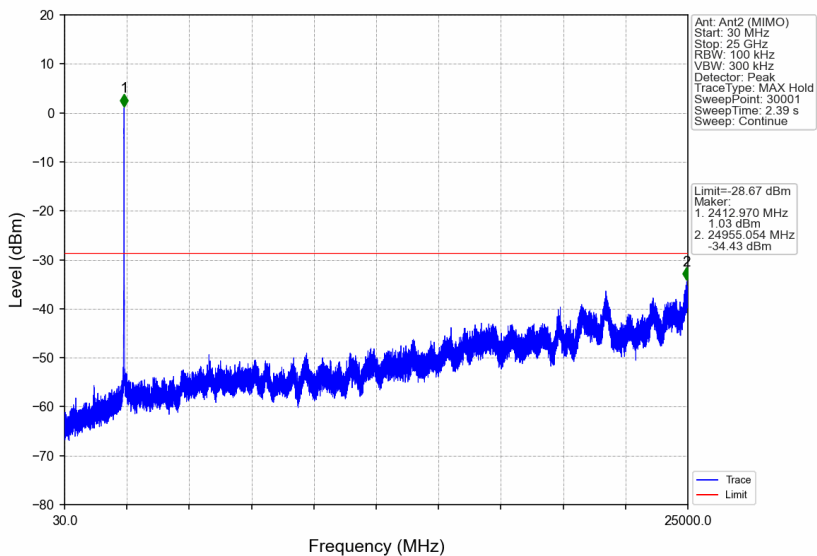
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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



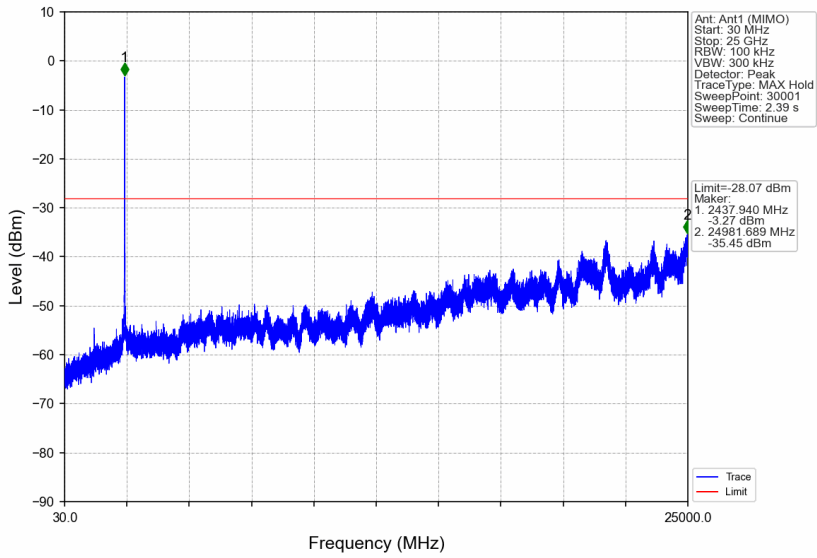
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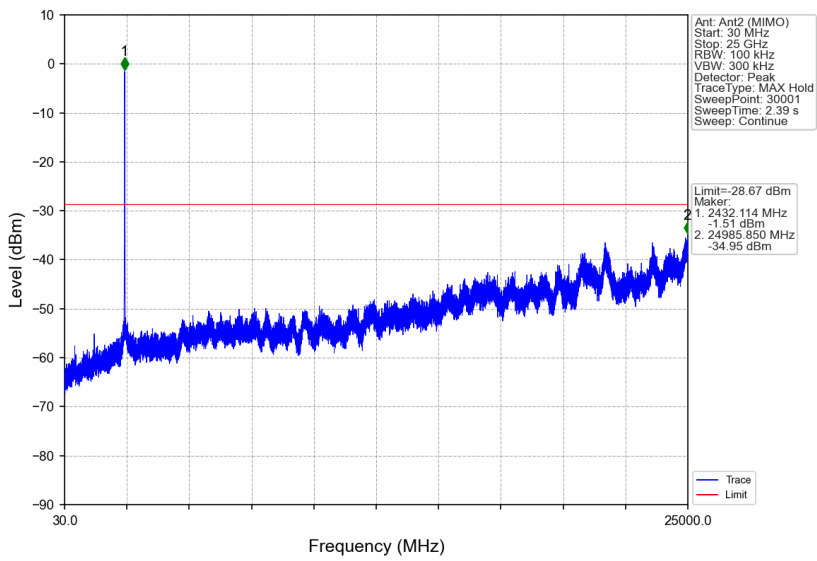
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



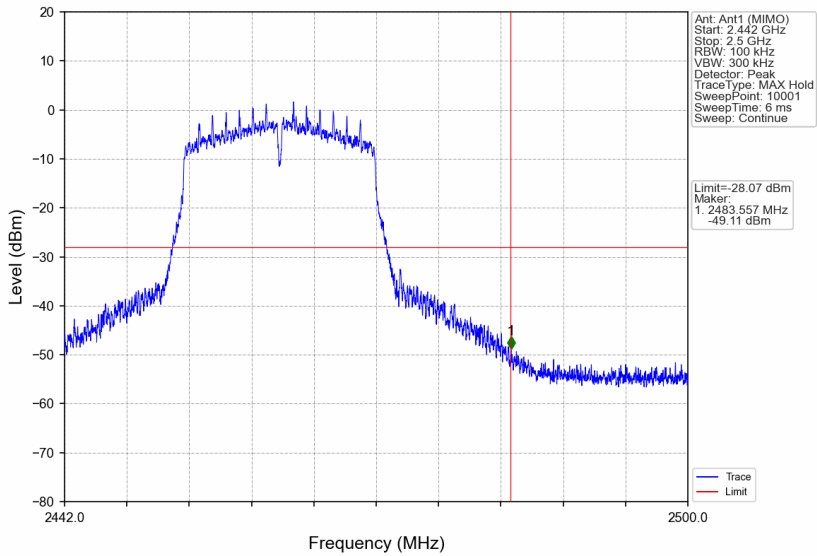
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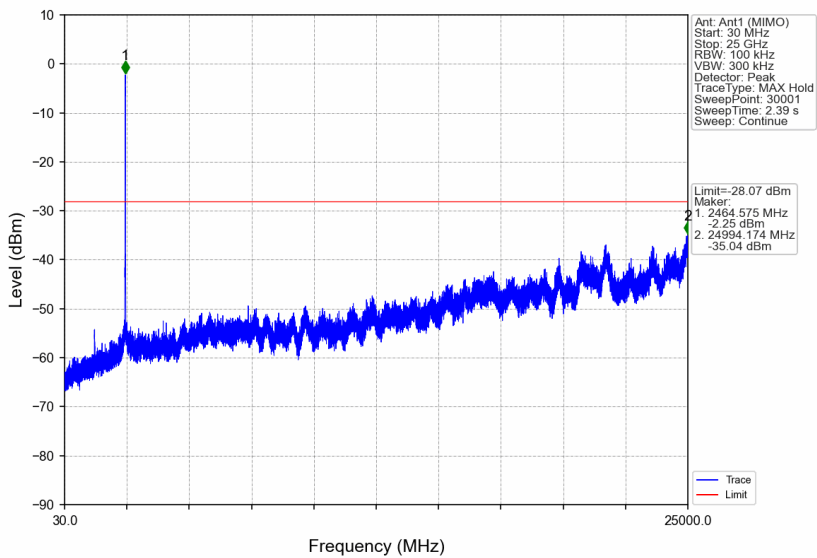
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



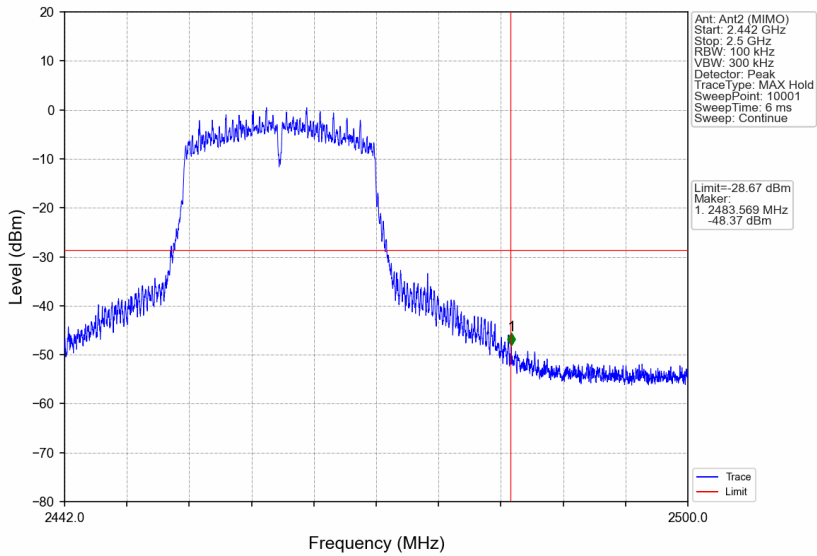
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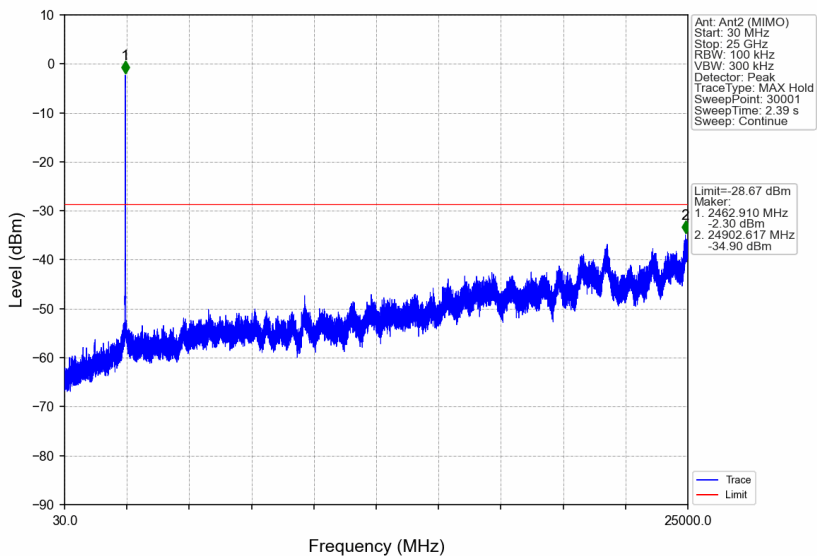
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802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



802.11n(HT20) HCH 2462MHz_Ant2 (MIMO) NTN



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