Appendix A for SHCR211000048101

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	8.580	98.09	0.08	1.35
		2437	8.414	8.587	97.99	0.09	1.47
		2462	8.413	8.586	97.99	0.09	1.47
802.11g	SISO	2412	1.396	1.565	89.20	0.50	7.17
		2437	1.397	1.558	89.67	0.47	7.32
		2462	1.396	1.530	91.24	0.40	5.74
802.11n (HT20)	MIMO	2412	1.308	1.478	88.50	0.53	7.59
		2437	1.308	1.486	88.02	0.55	8.81
		2462	1.308	1.477	88.56	0.53	6.97

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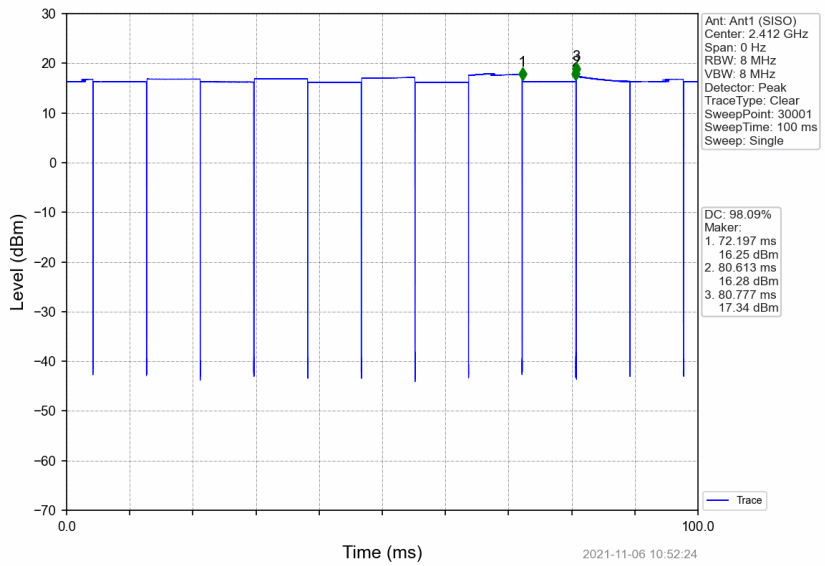
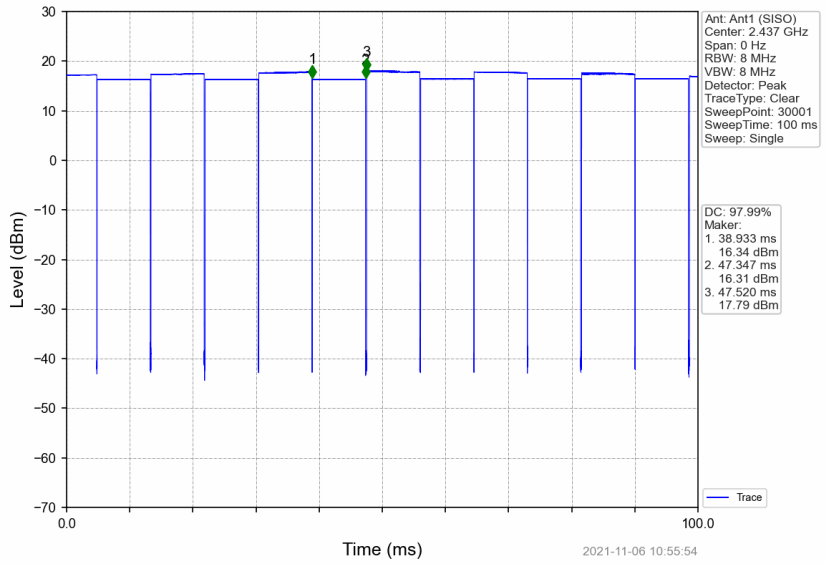
1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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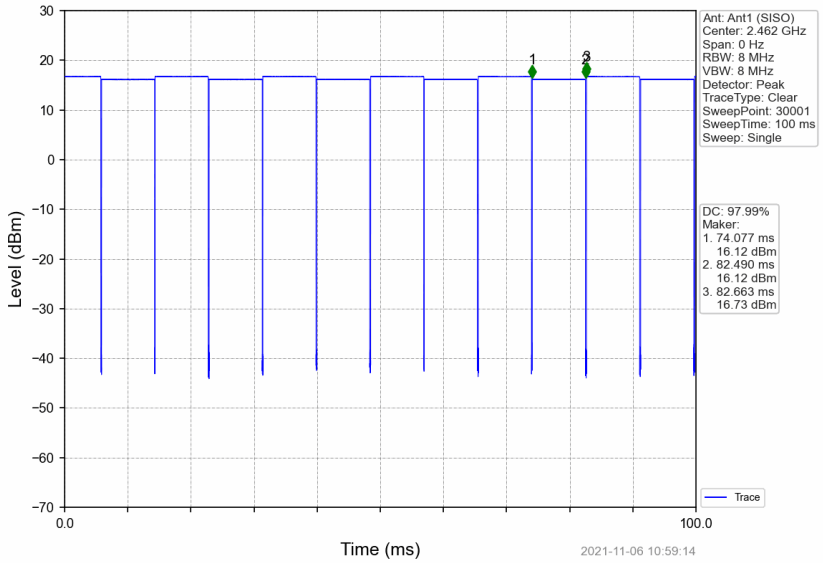
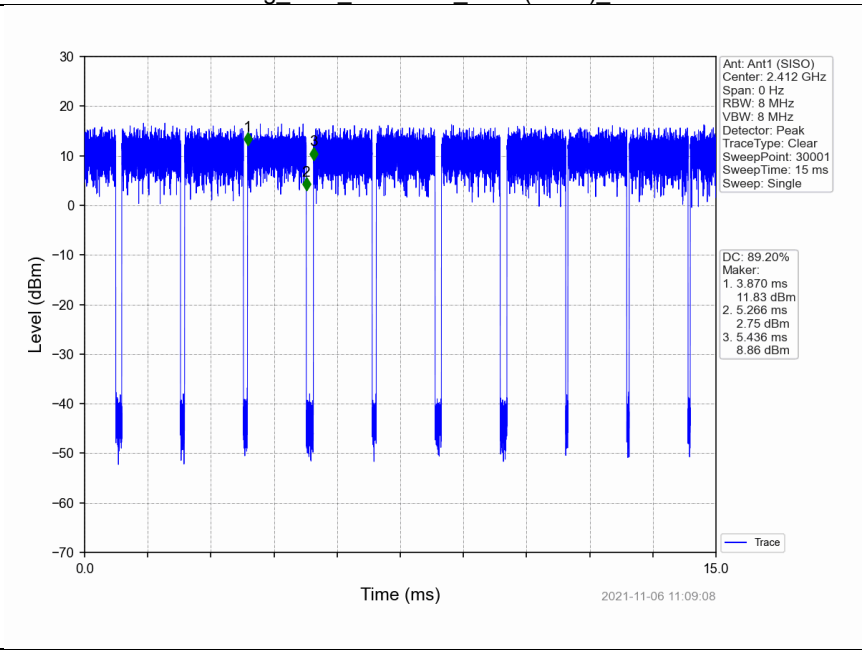
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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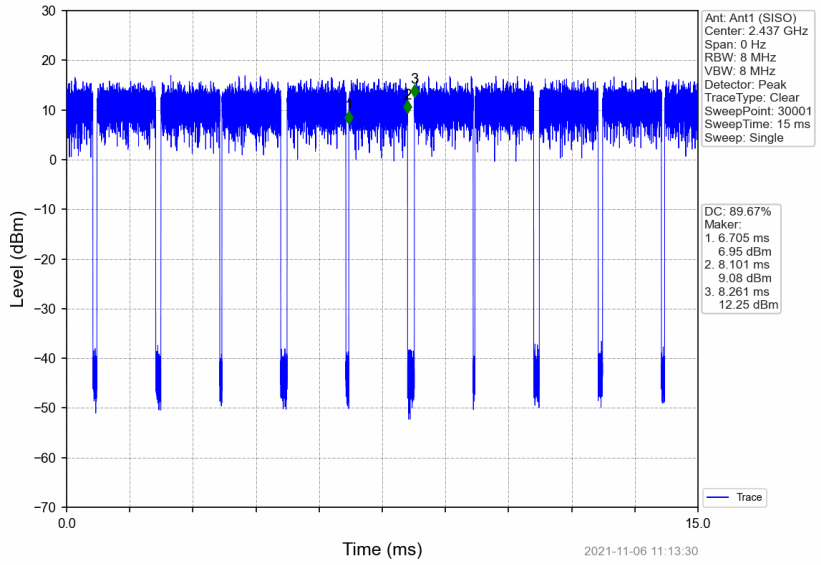
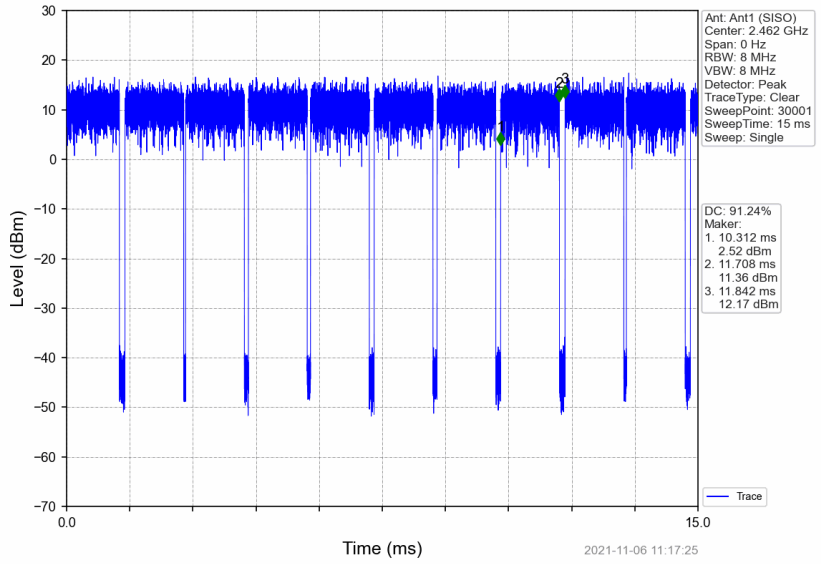
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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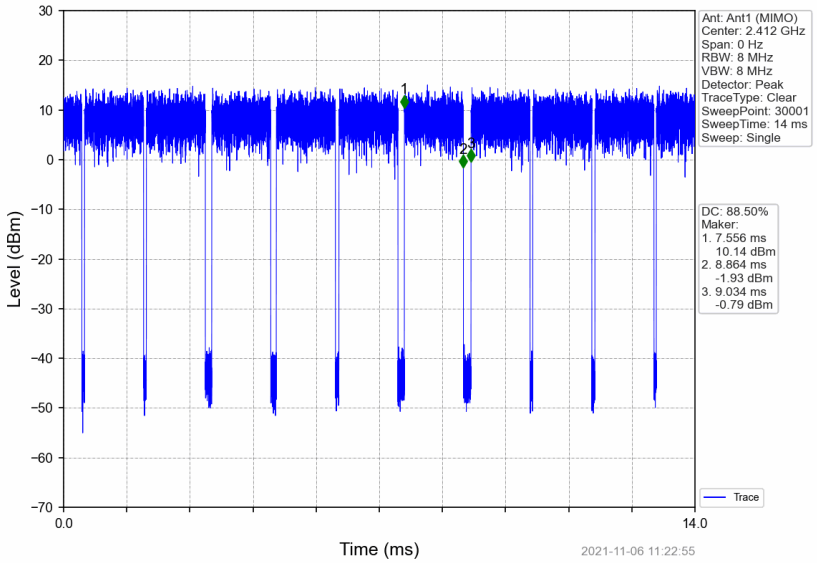
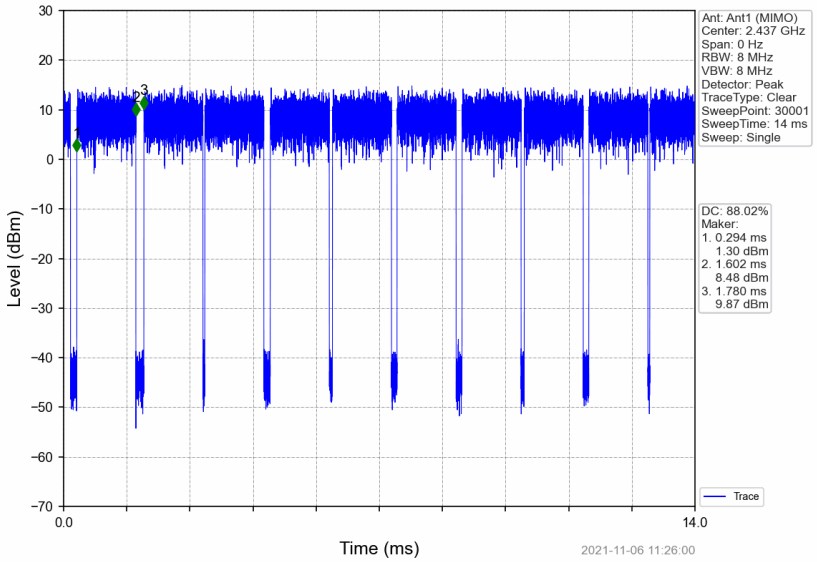
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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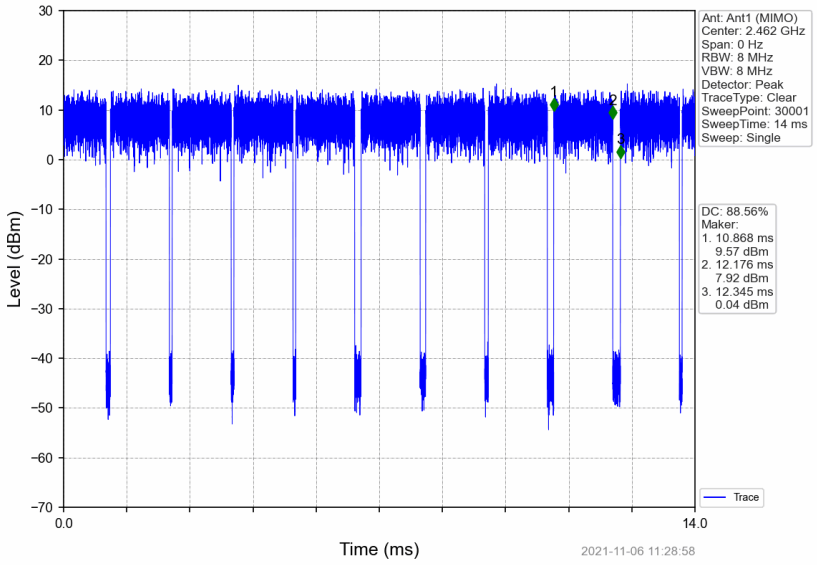
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz) Result	Verdict
802.11b	SISO	2412	1	14.214	Pass
			2	14.103	Pass
		2437	1	14.181	Pass
			2	14.121	Pass
		2462	1	14.200	Pass
			2	14.146	Pass
802.11g	SISO	2412	1	17.451	Pass
			2	16.800	Pass
		2437	1	17.493	Pass
			2	16.796	Pass
		2462	1	17.494	Pass
			2	16.792	Pass
802.11n (HT20)	MIMO	2412	1	17.931	Pass
			2	17.646	Pass
		2437	1	17.974	Pass
			2	17.671	Pass
		2462	1	17.937	Pass
			2	17.644	Pass

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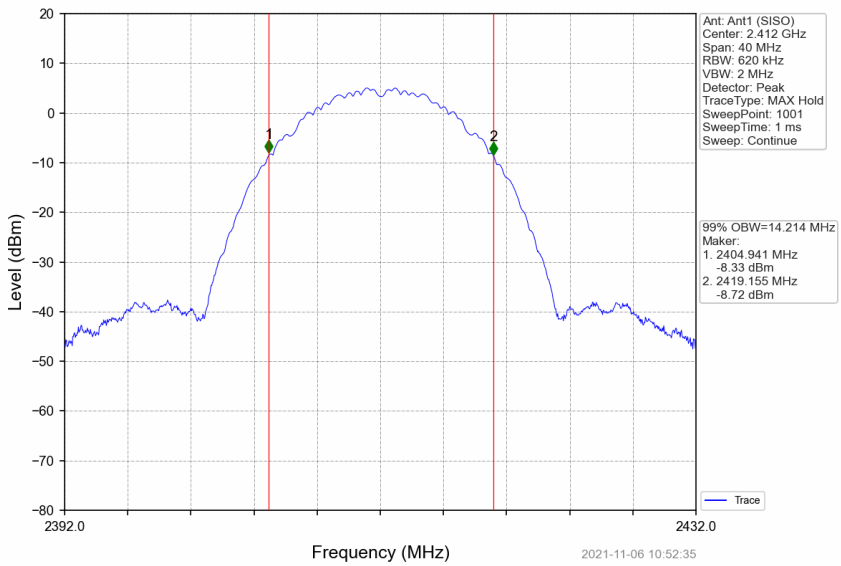
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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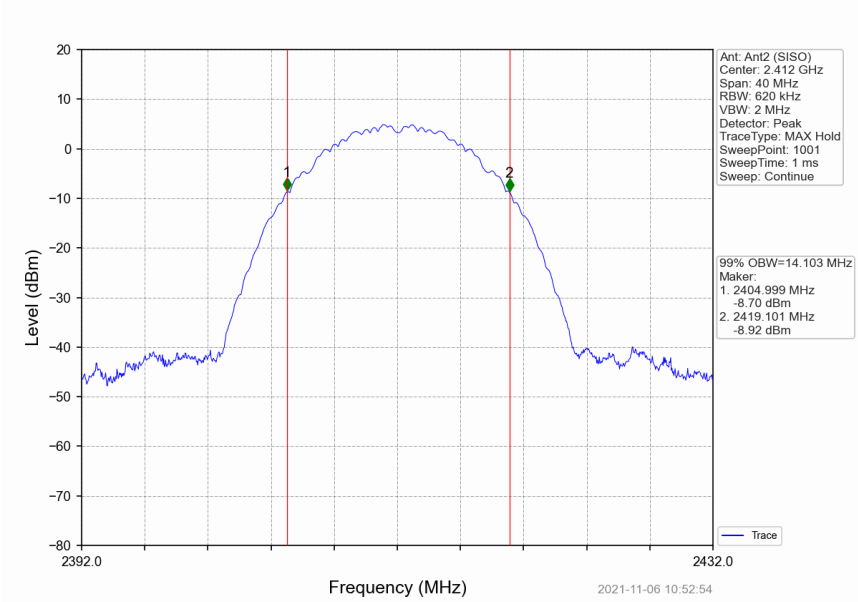

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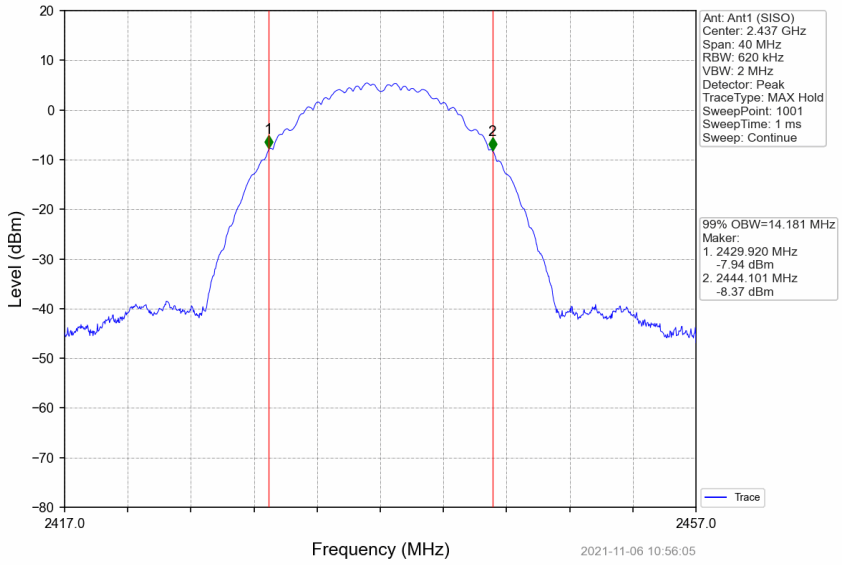
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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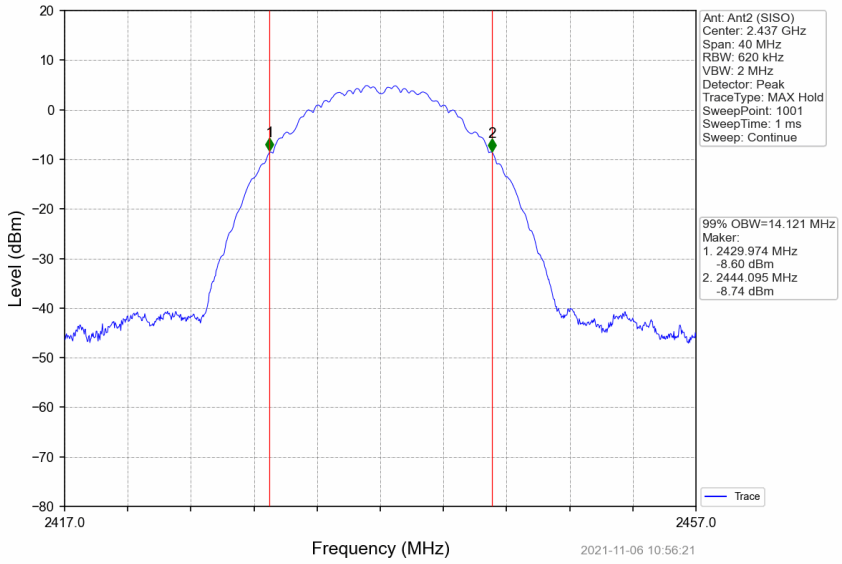

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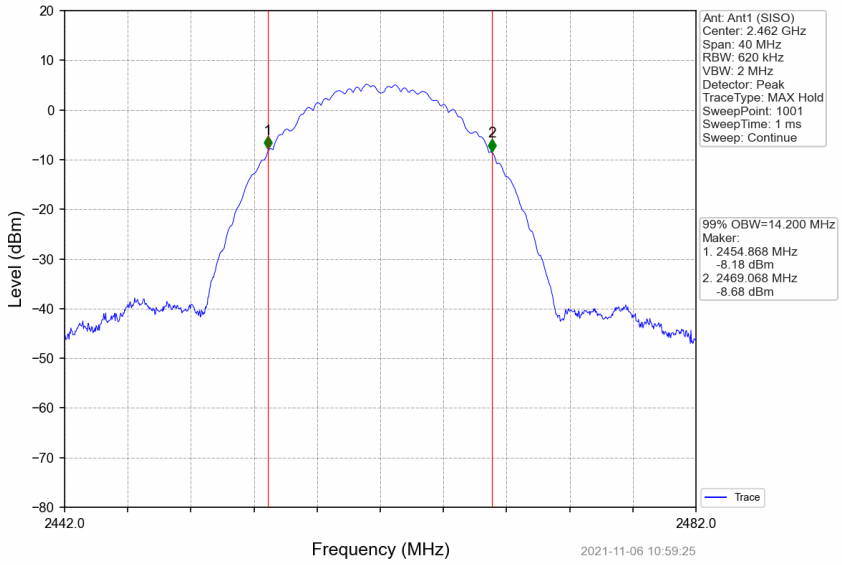
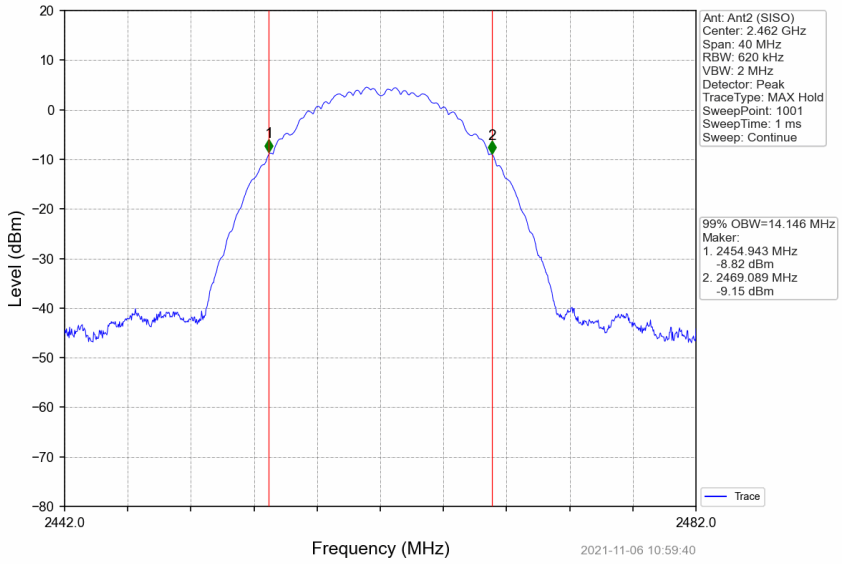
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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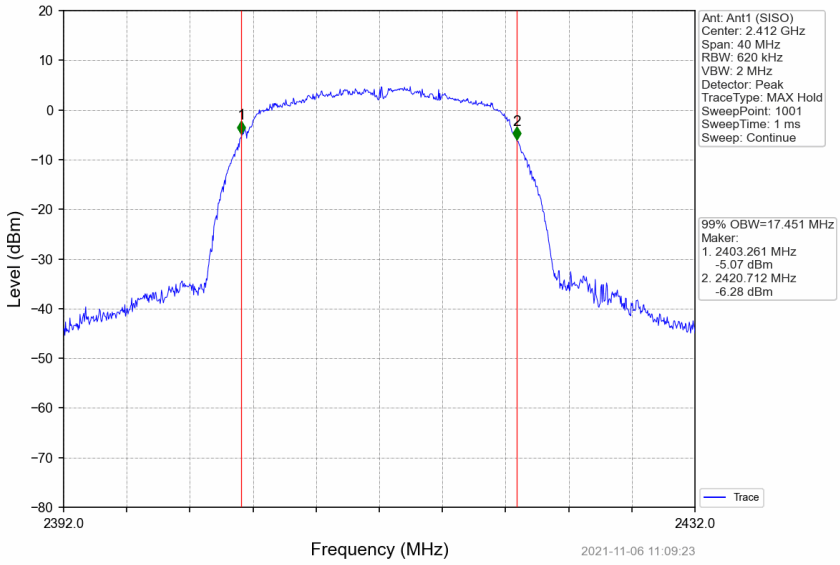
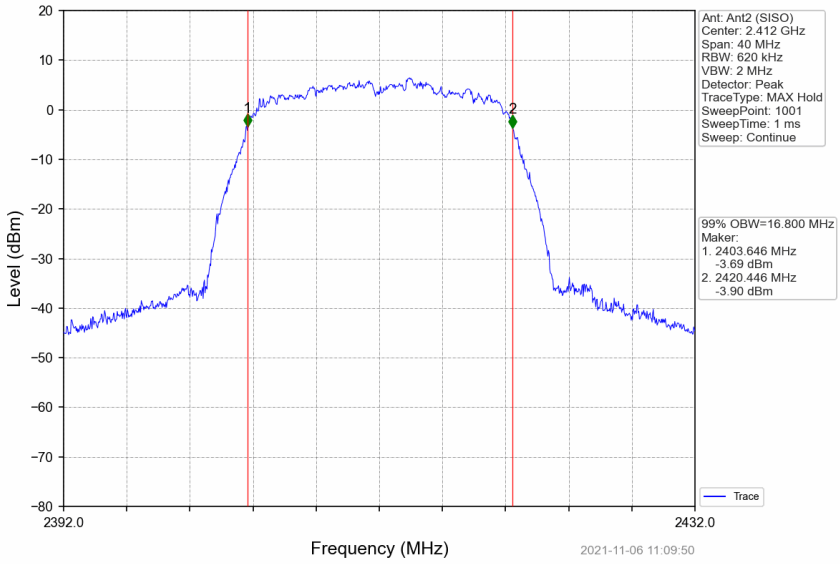
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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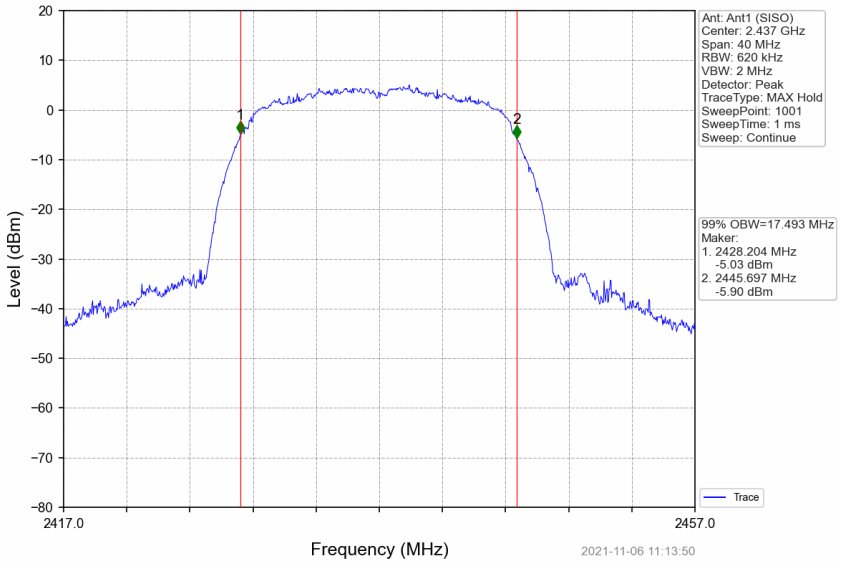
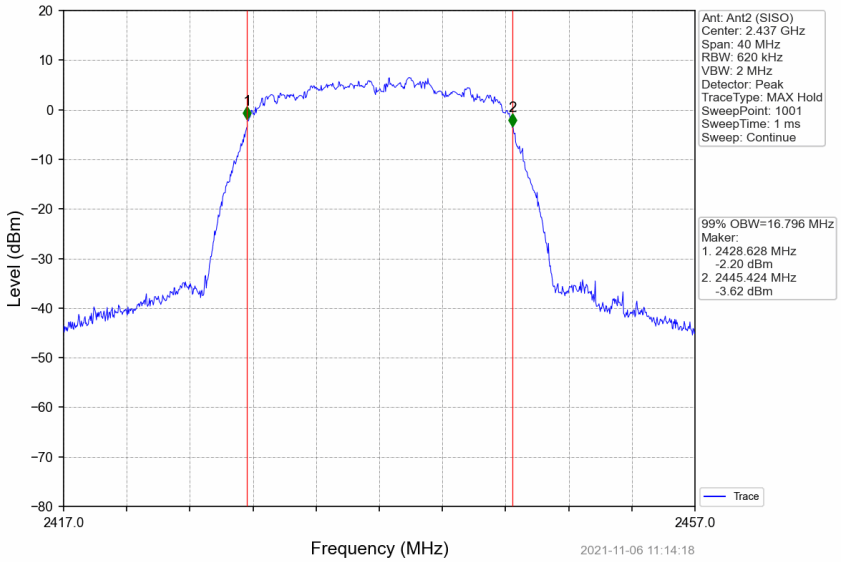
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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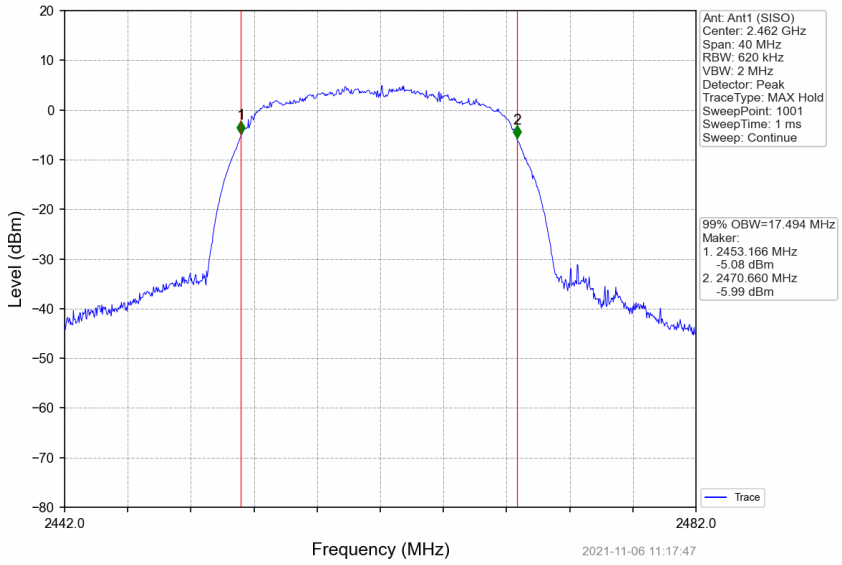
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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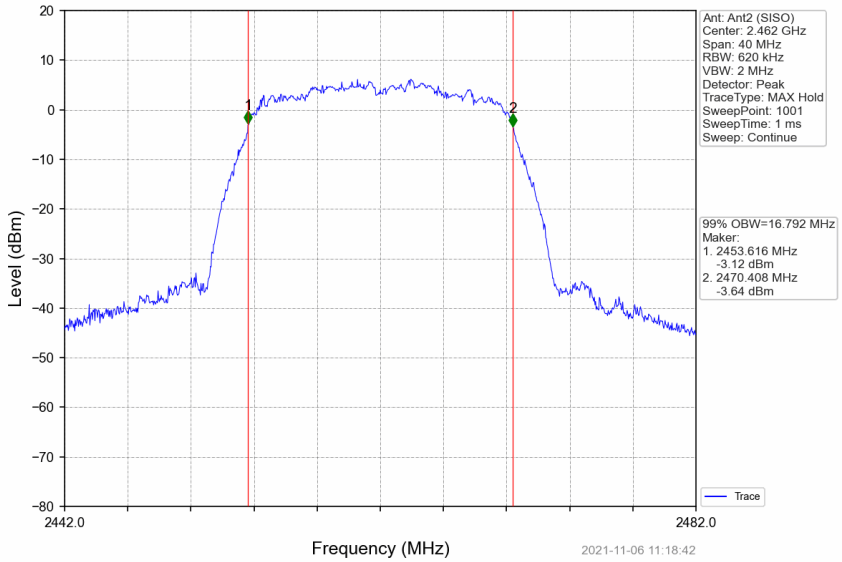

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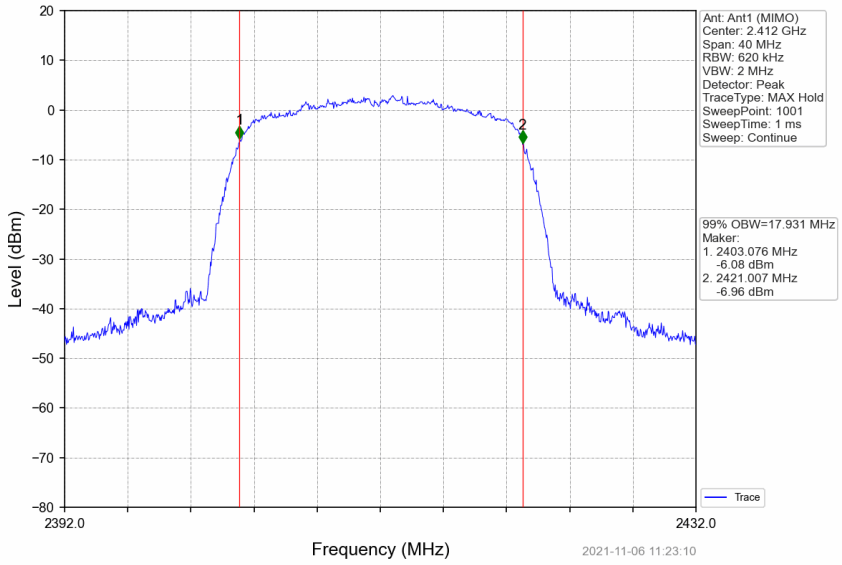
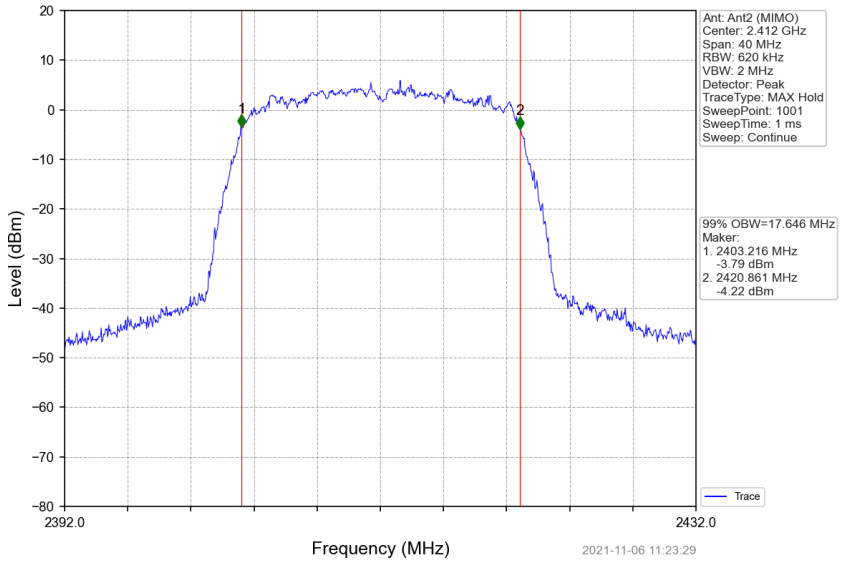
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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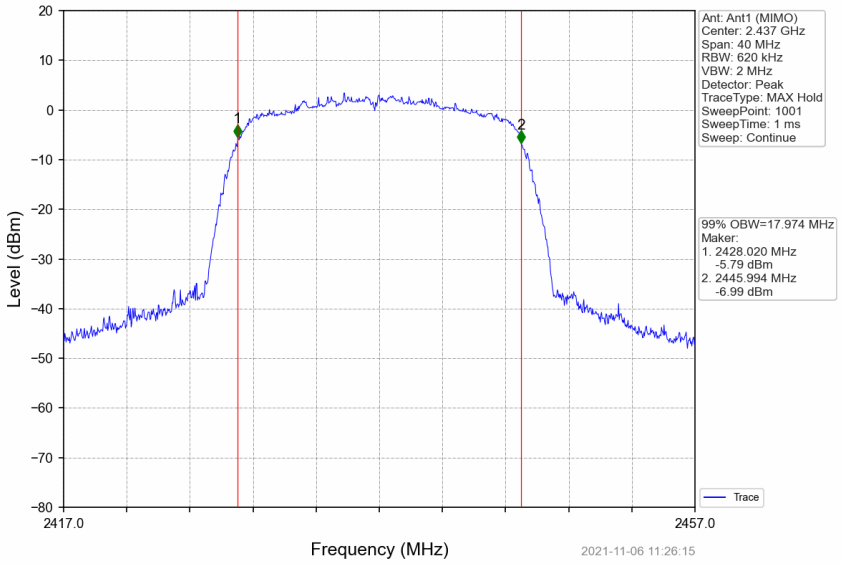
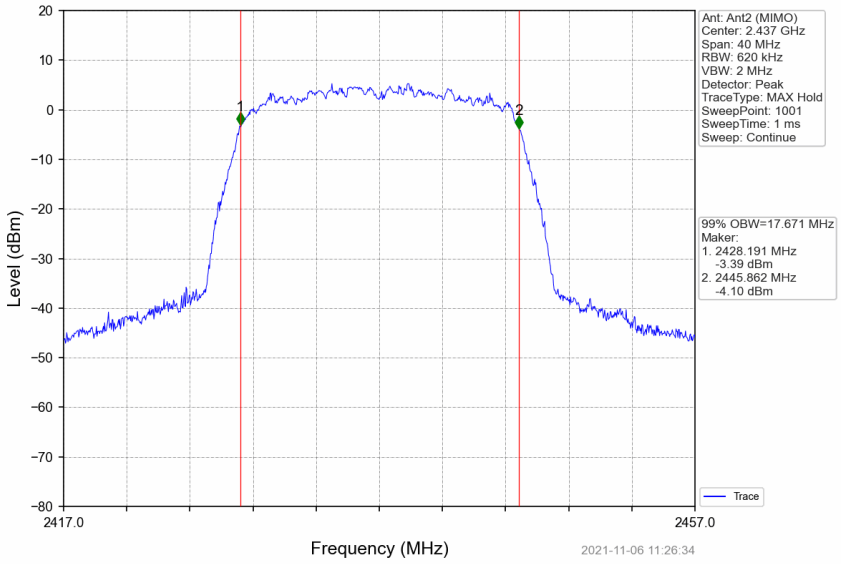
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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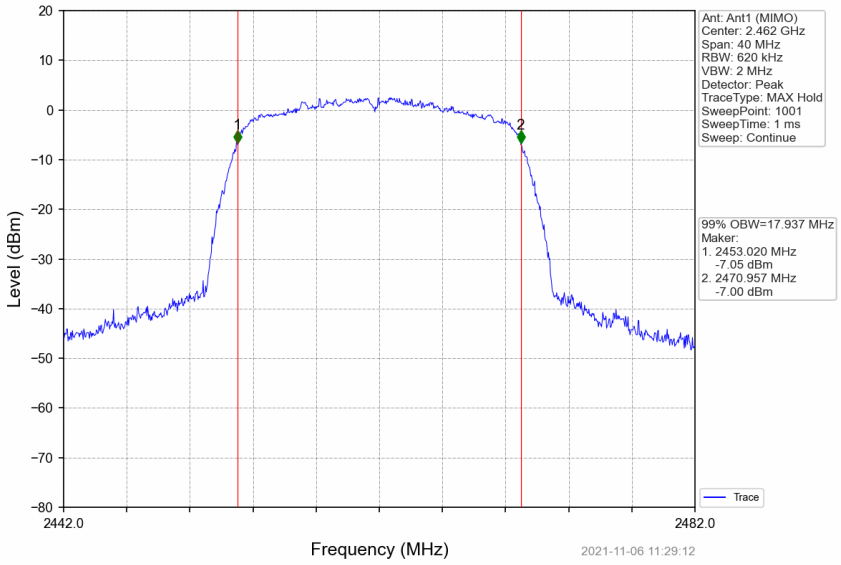
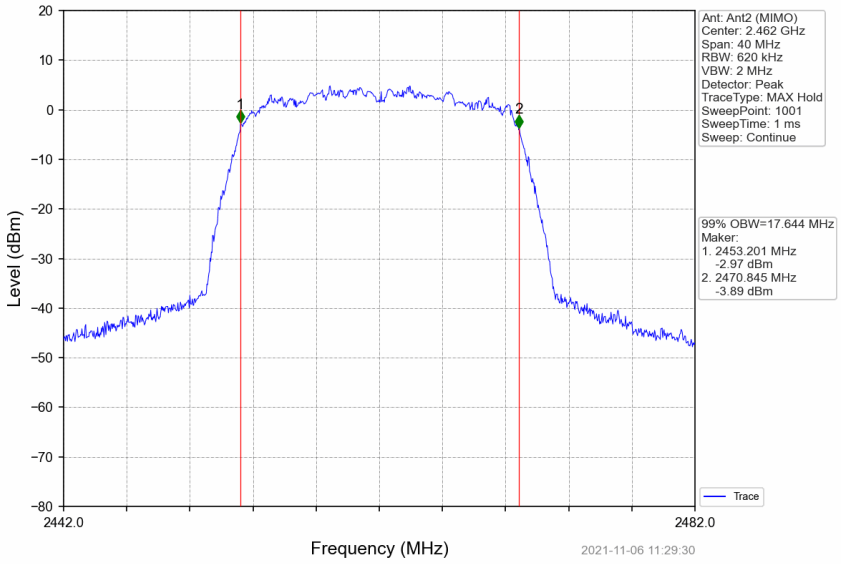
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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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	10.047	>=0.5	Pass
			2	10.029	>=0.5	Pass
		2437	1	10.051	>=0.5	Pass
			2	10.021	>=0.5	Pass
		2462	1	9.091	>=0.5	Pass
			2	10.021	>=0.5	Pass
802.11g	SISO	2412	1	15.124	>=0.5	Pass
			2	15.154	>=0.5	Pass
		2437	1	15.127	>=0.5	Pass
			2	15.144	>=0.5	Pass
		2462	1	15.136	>=0.5	Pass
			2	15.155	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.124	>=0.5	Pass
			2	15.140	>=0.5	Pass
		2437	1	15.103	>=0.5	Pass
			2	15.151	>=0.5	Pass
		2462	1	15.129	>=0.5	Pass
			2	15.131	>=0.5	Pass

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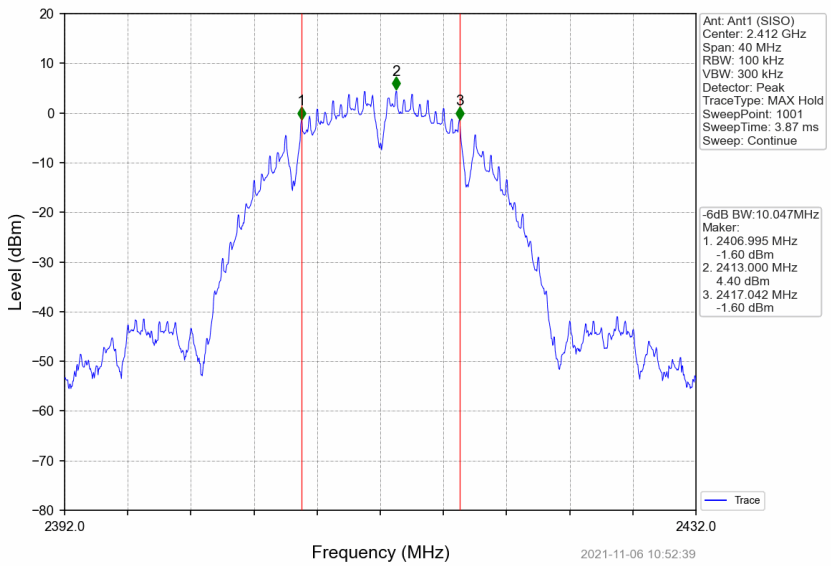
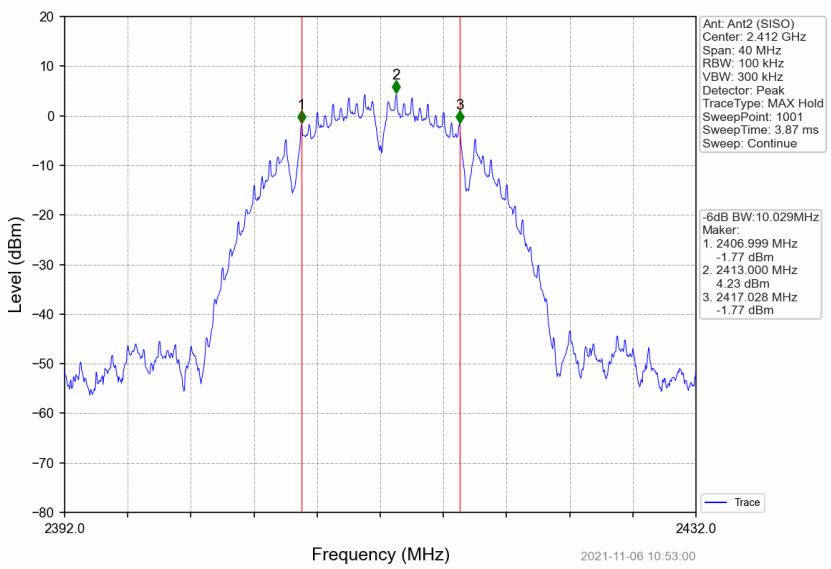
2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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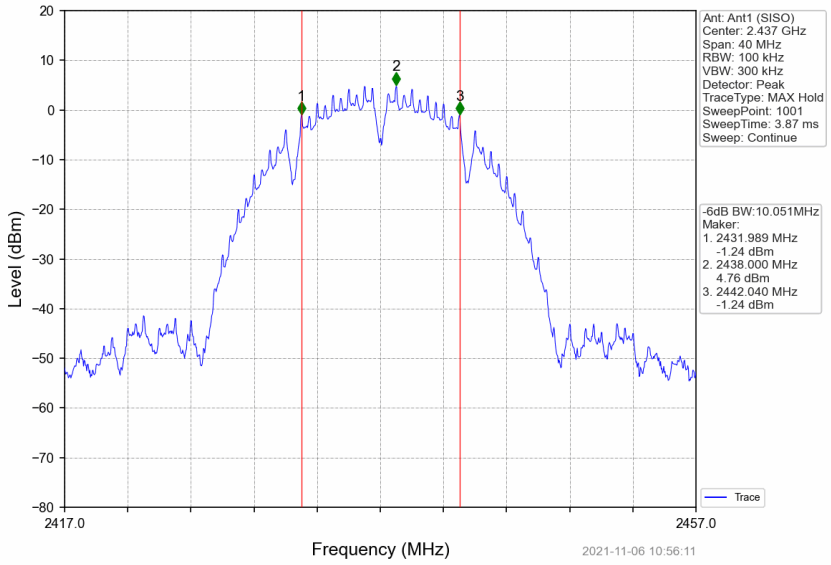
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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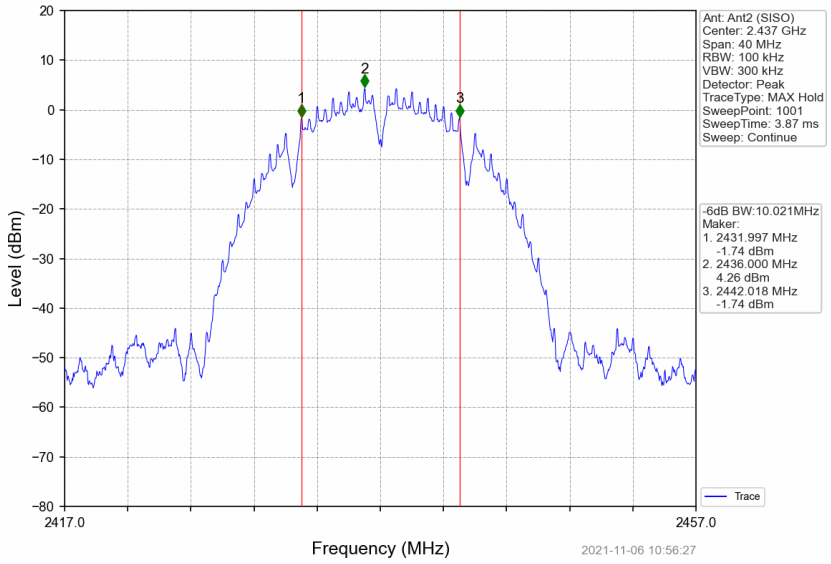

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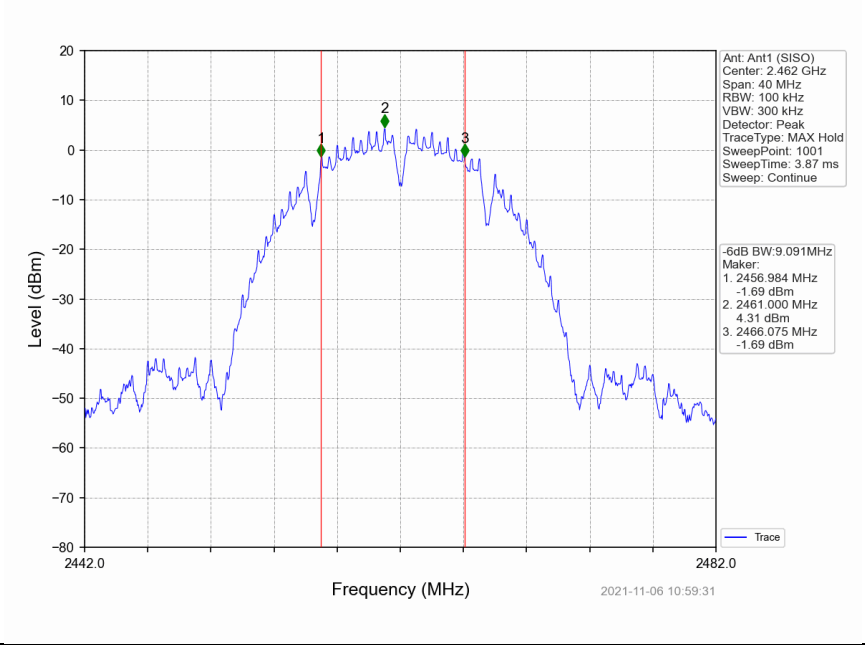
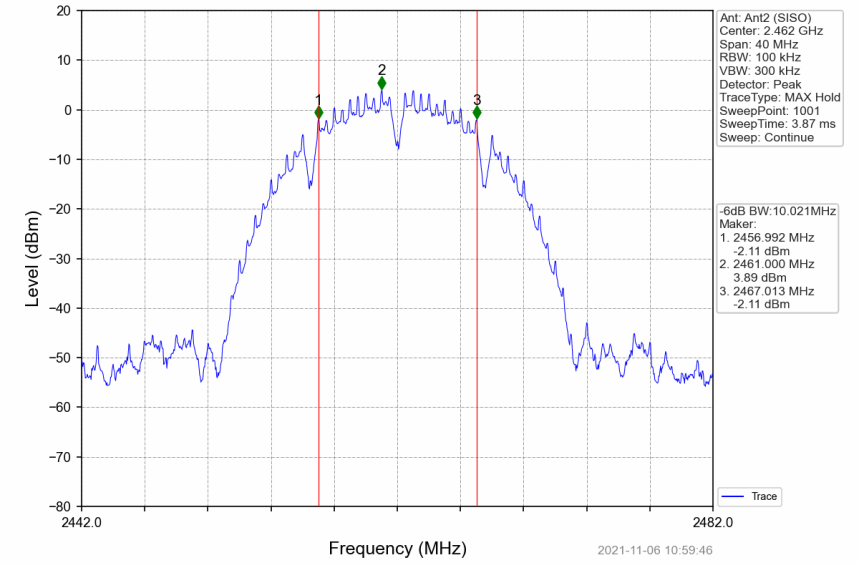
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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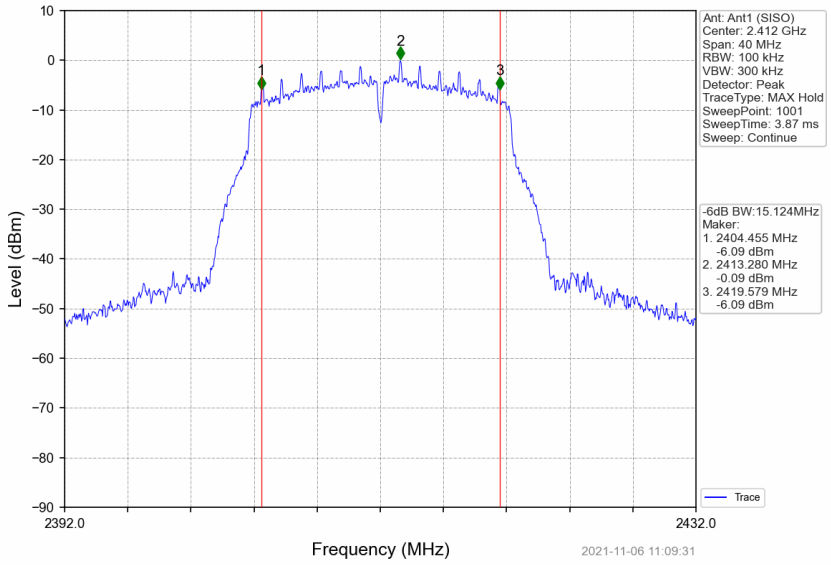
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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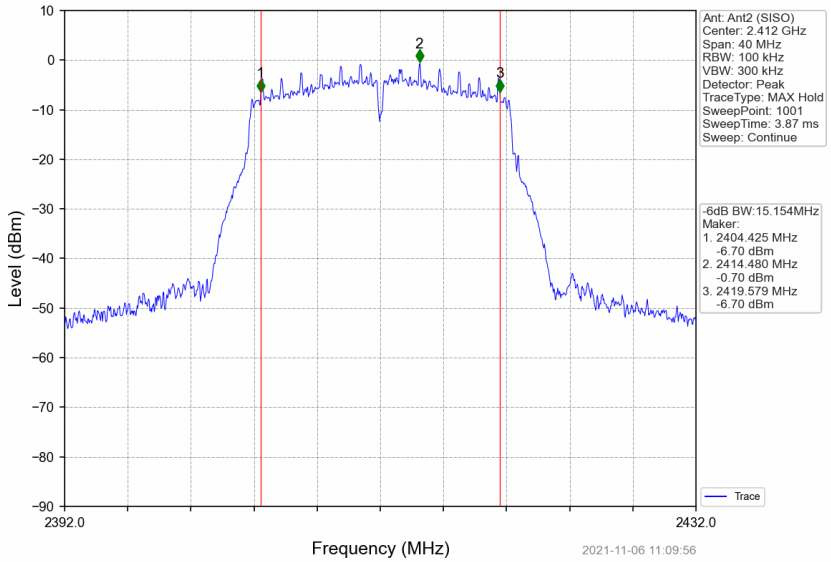

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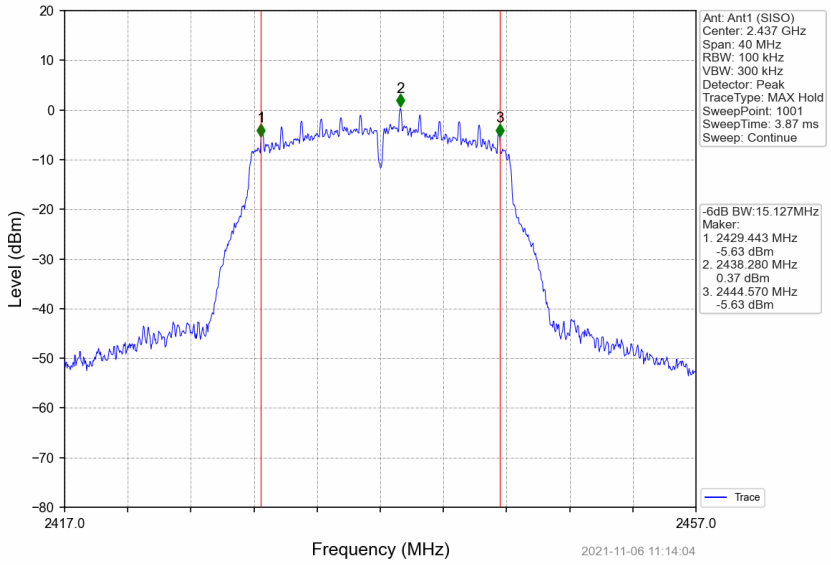
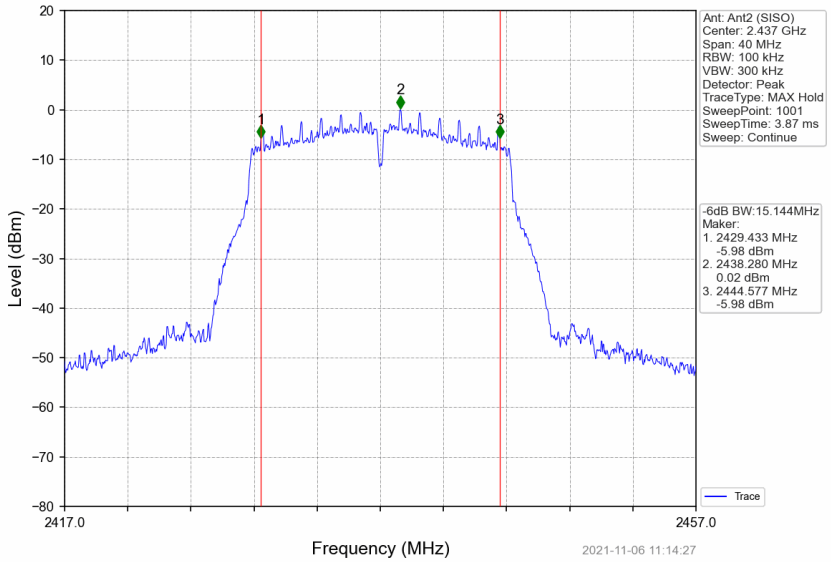


802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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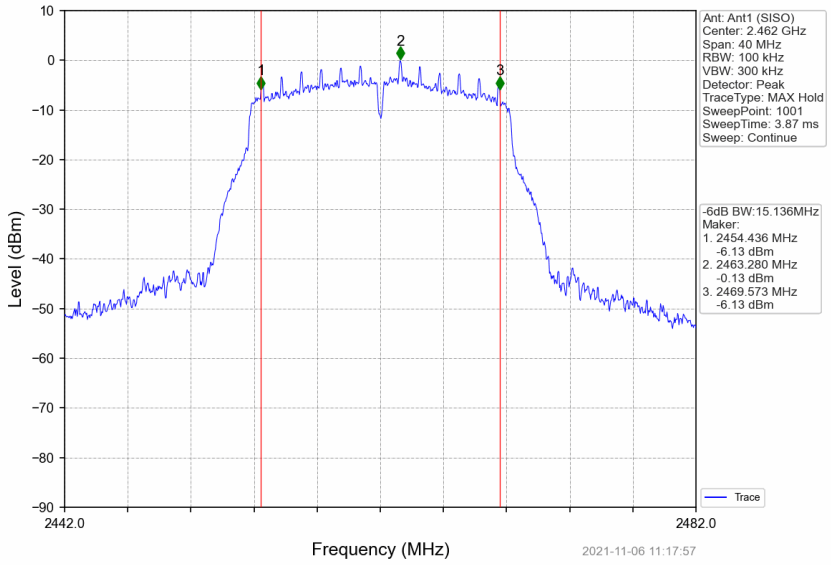
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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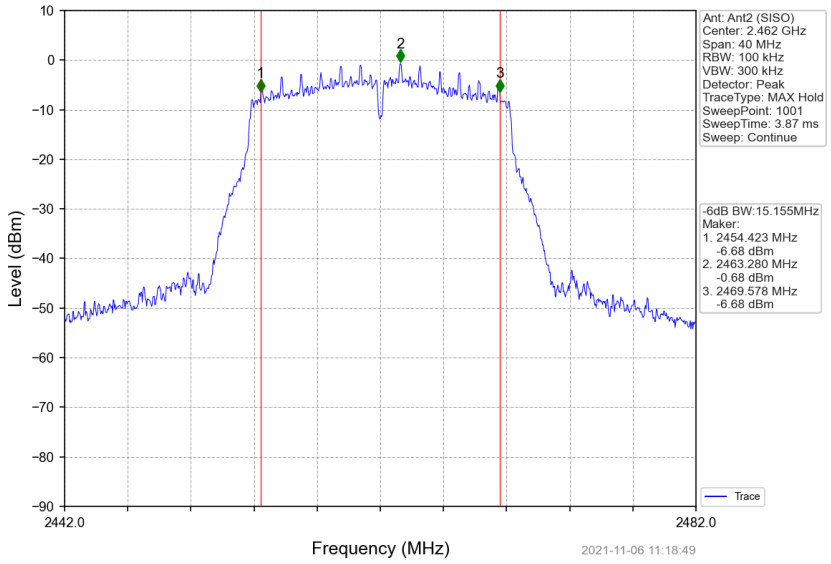

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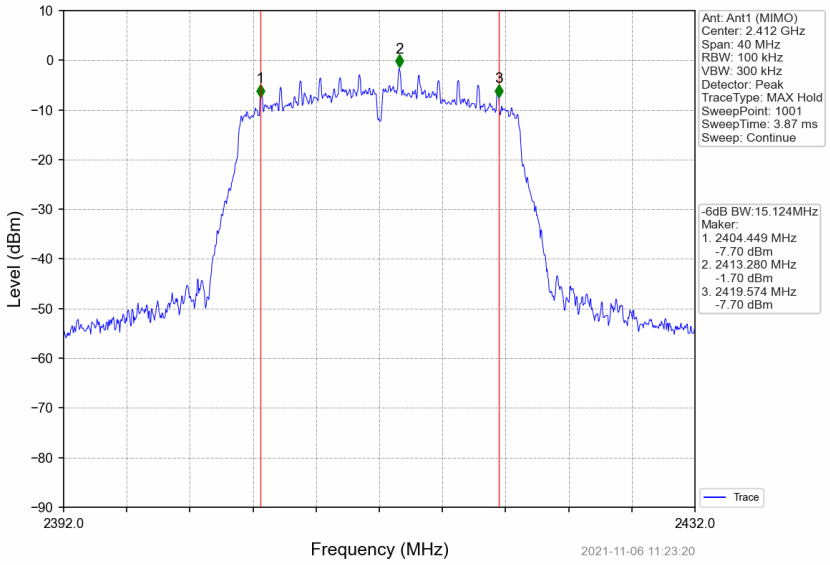
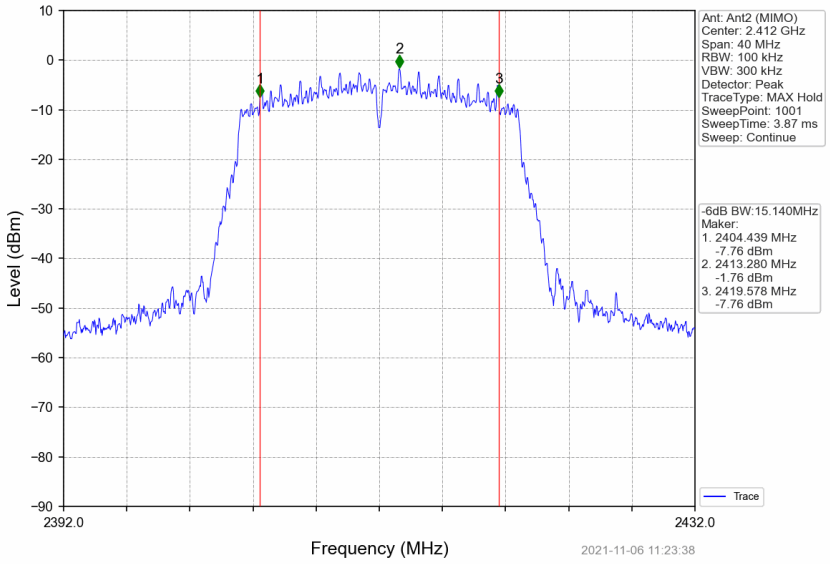
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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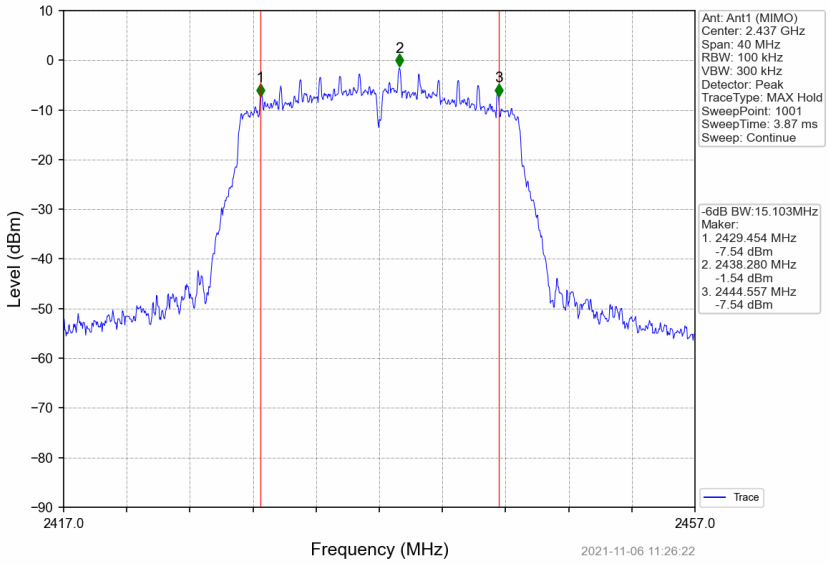
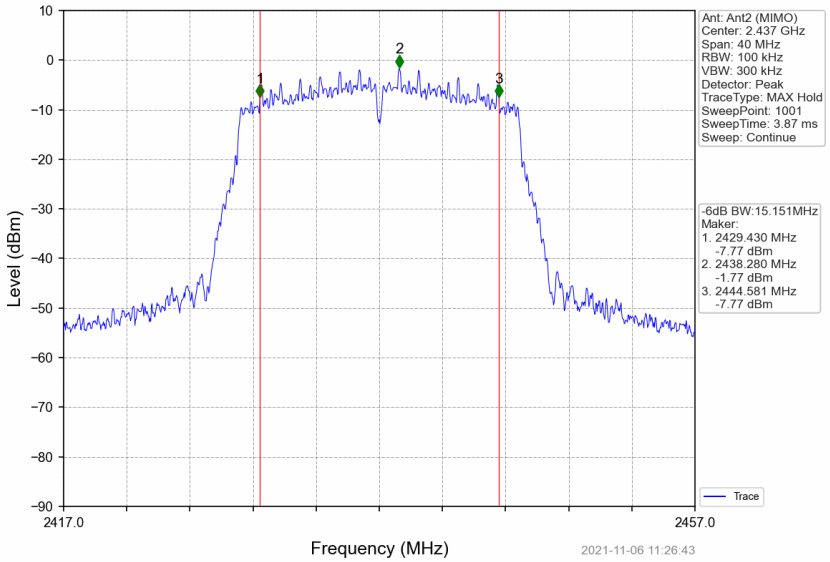
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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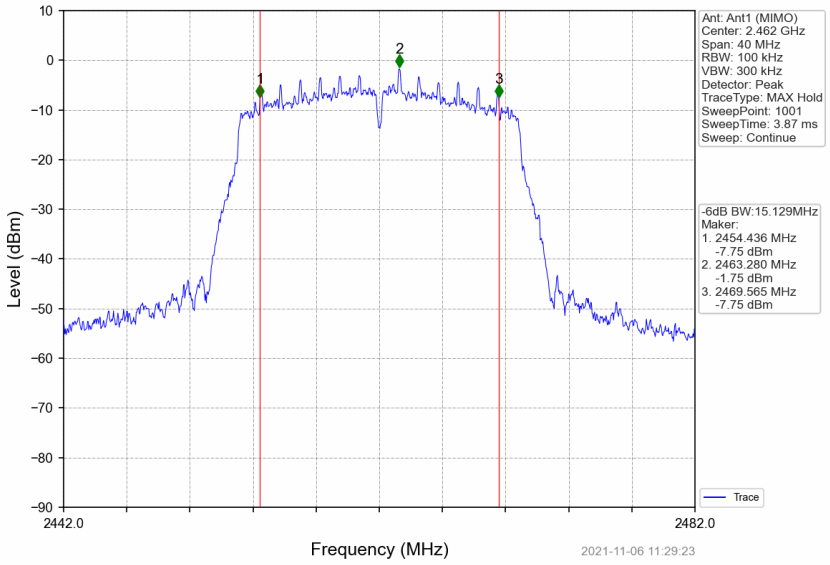
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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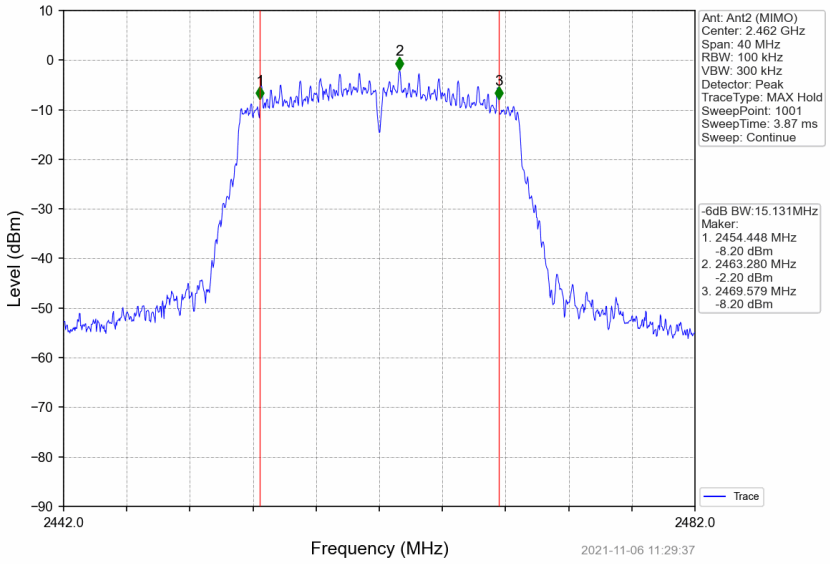

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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	15.53	15.35	/	<=30	Pass
		2437	15.92	15.36	/	<=30	Pass
		2462	15.46	15.00	/	<=30	Pass
802.11g	SISO	2412	17.09	17.57	/	<=30	Pass
		2437	17.29	17.76	/	<=30	Pass
		2462	17.01	17.33	/	<=30	Pass
802.11n (HT20)	MIMO	2412	15.17	16.32	18.79	<=29.99	Pass
		2437	15.29	16.47	18.93	<=29.99	Pass
		2462	15.10	16.02	18.59	<=29.99	Pass
Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 3.00dBi; Note2: Directional Gain: 6.01dBi							

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	-1.63	-11.06	/	<=8	Pass
		2437	2.84	-4.89	/	<=8	Pass
		2462	-11.07	-4.69	/	<=8	Pass
802.11g	SISO	2412	-16.47	-16.33	/	<=8	Pass
		2437	-15.50	-16.07	/	<=8	Pass
		2462	-15.72	-16.16	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-17.60	-16.74	-15.15	<=7.99	Pass
		2437	-17.18	-17.06	-14.75	<=7.99	Pass
		2462	-17.67	-17.06	-15.07	<=7.99	Pass
Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 3.00dBi;							

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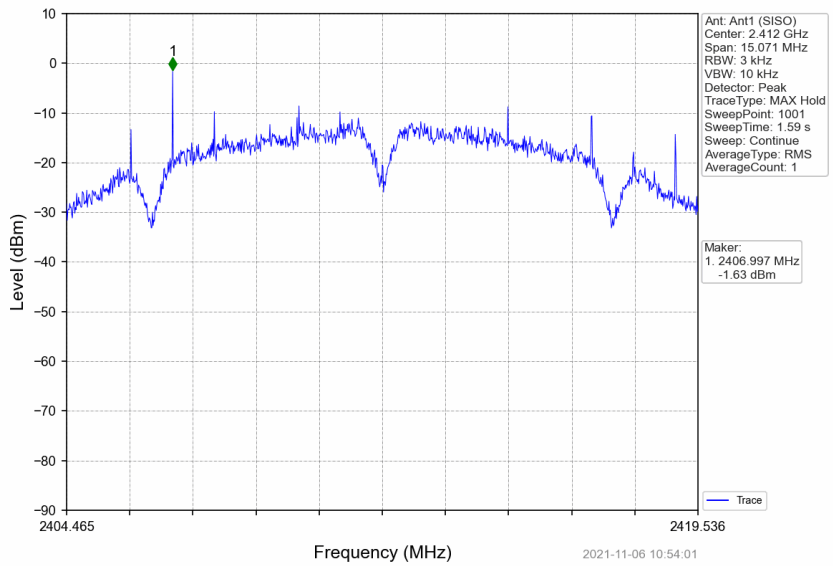
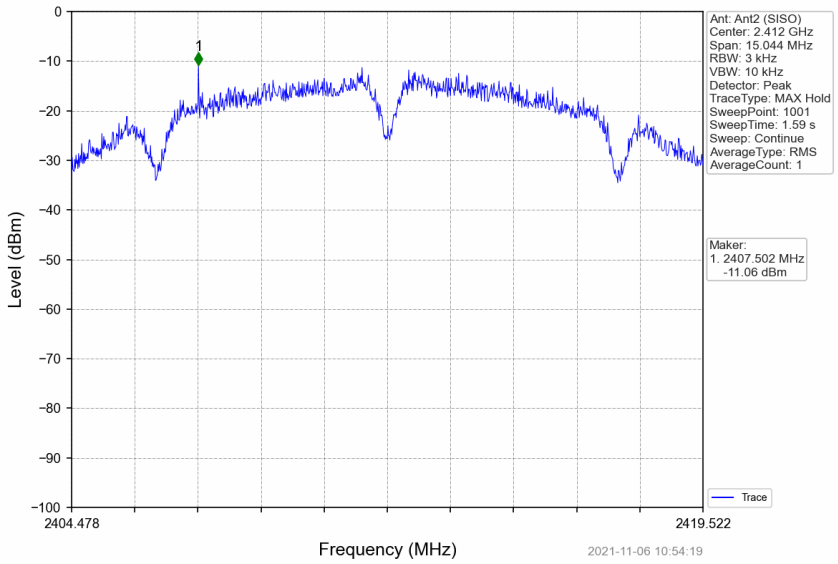
4.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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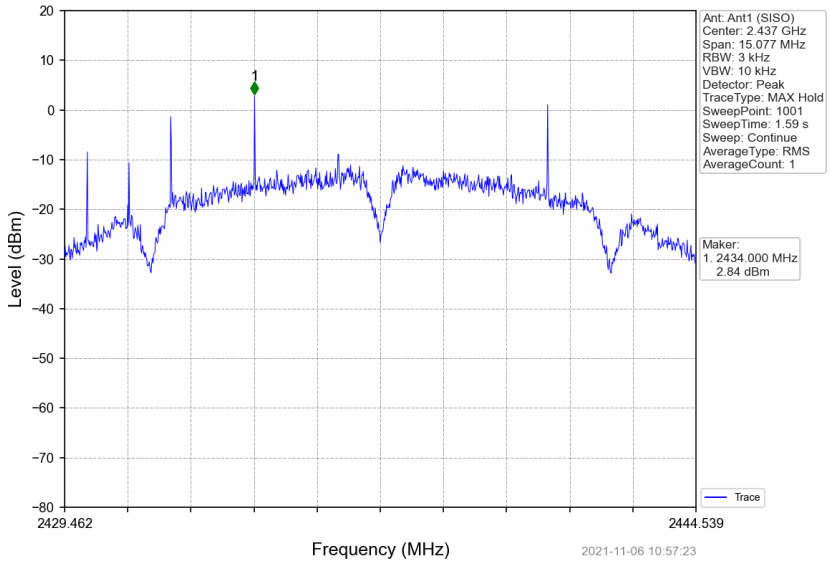
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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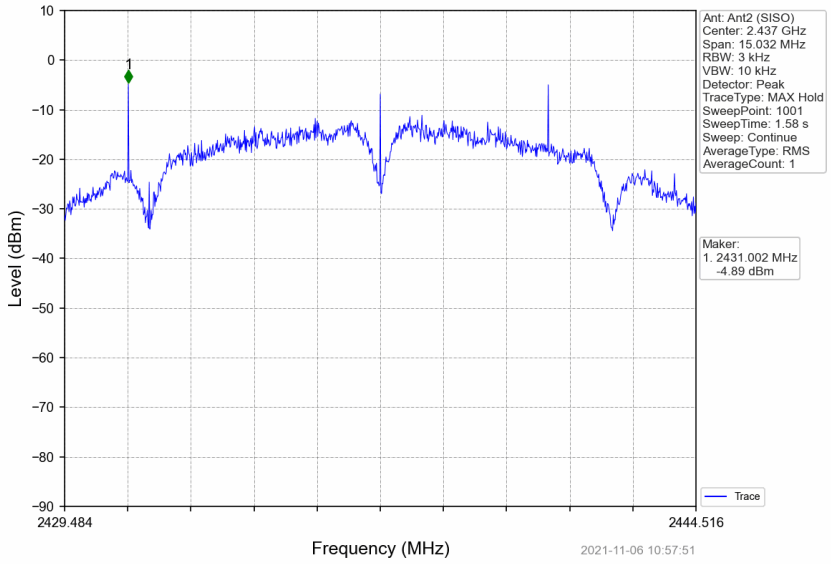

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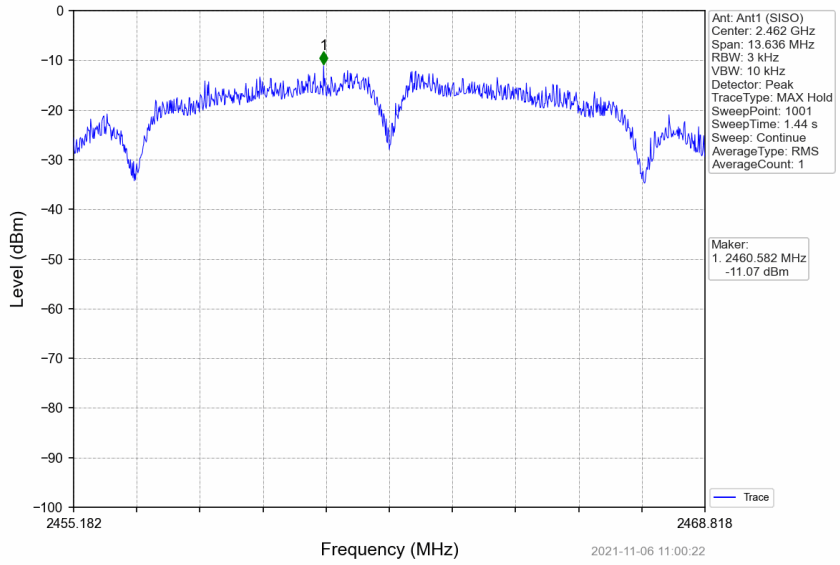
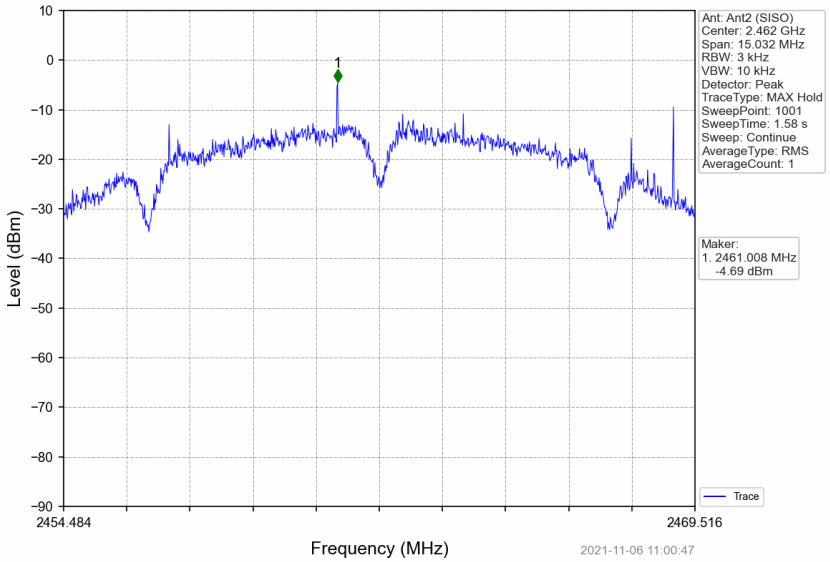
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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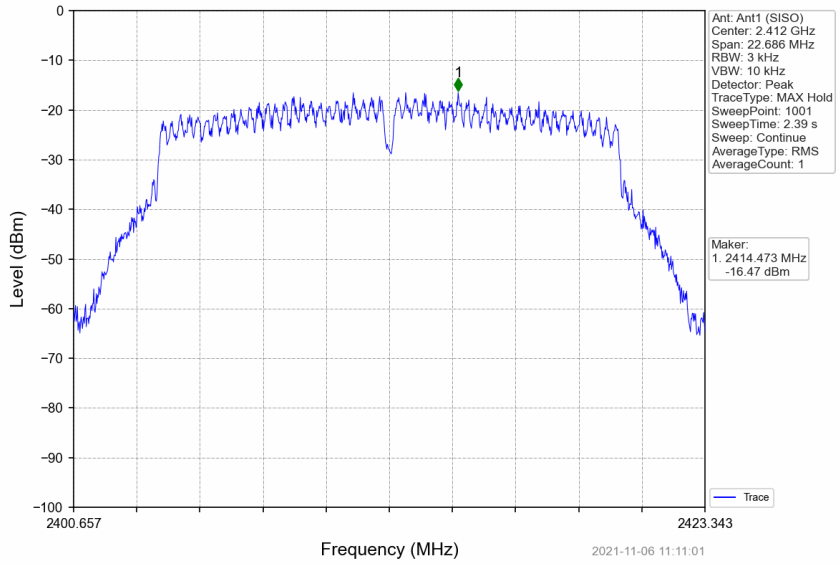
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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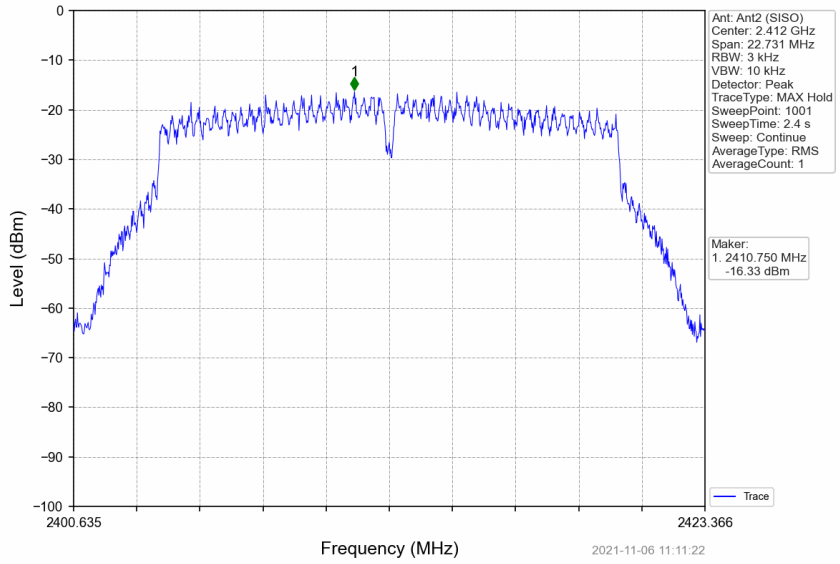

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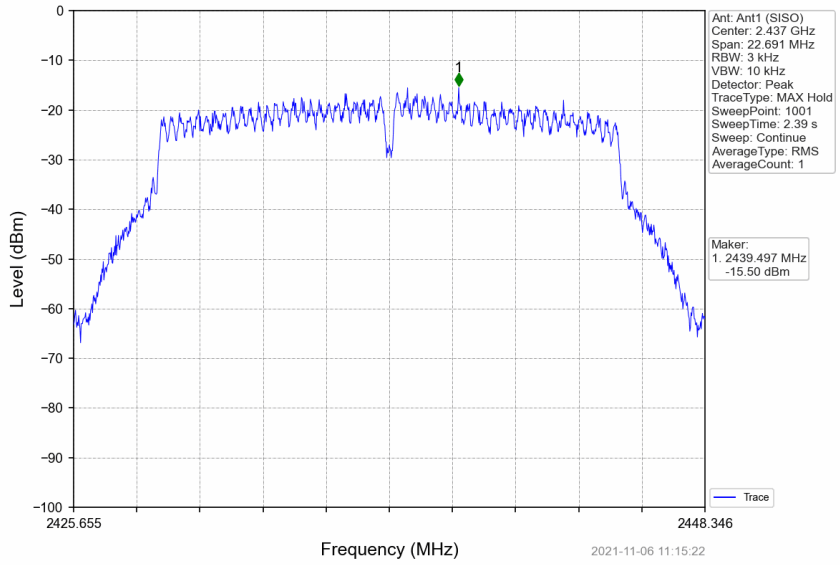
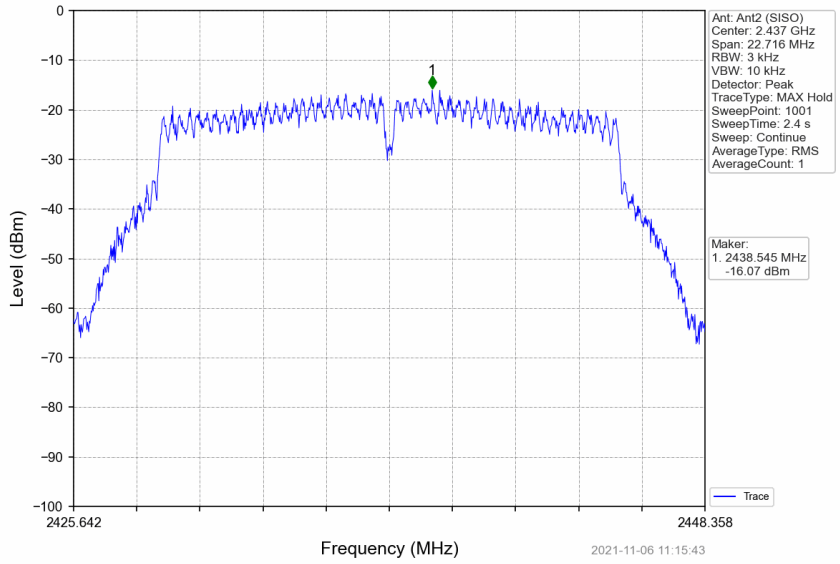
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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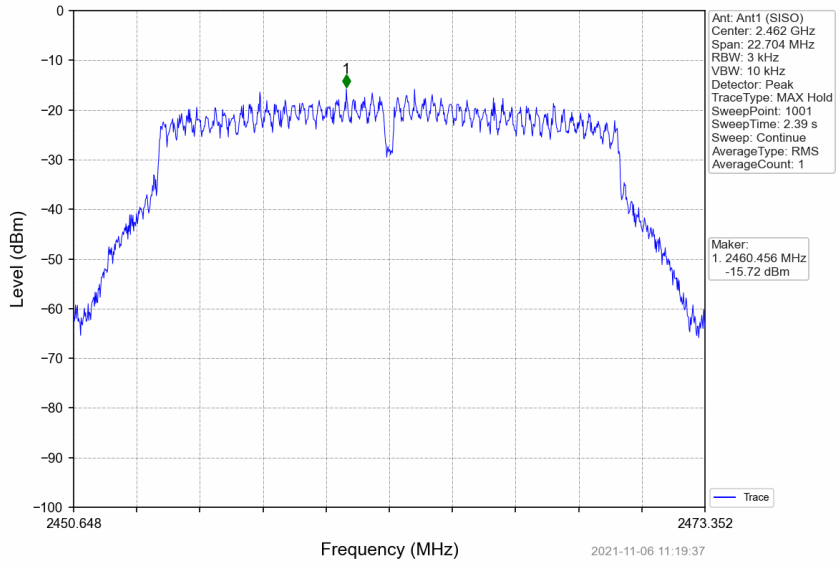
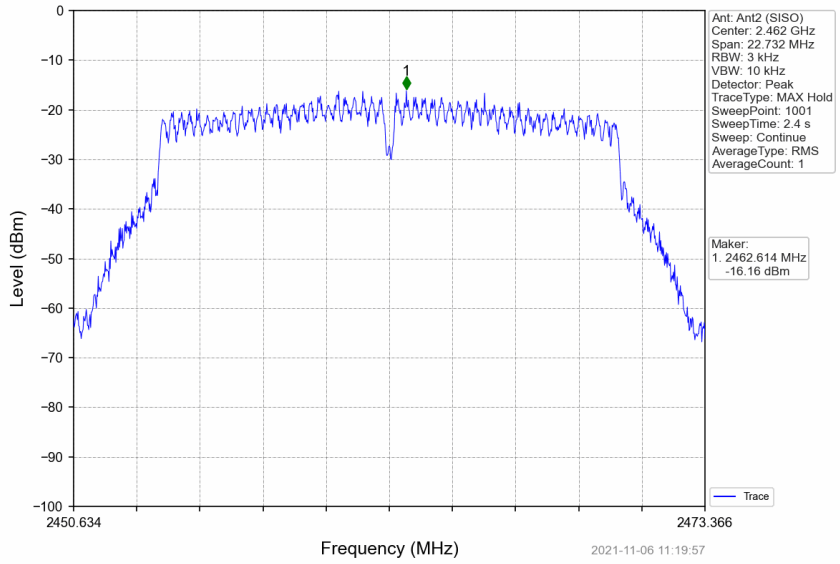
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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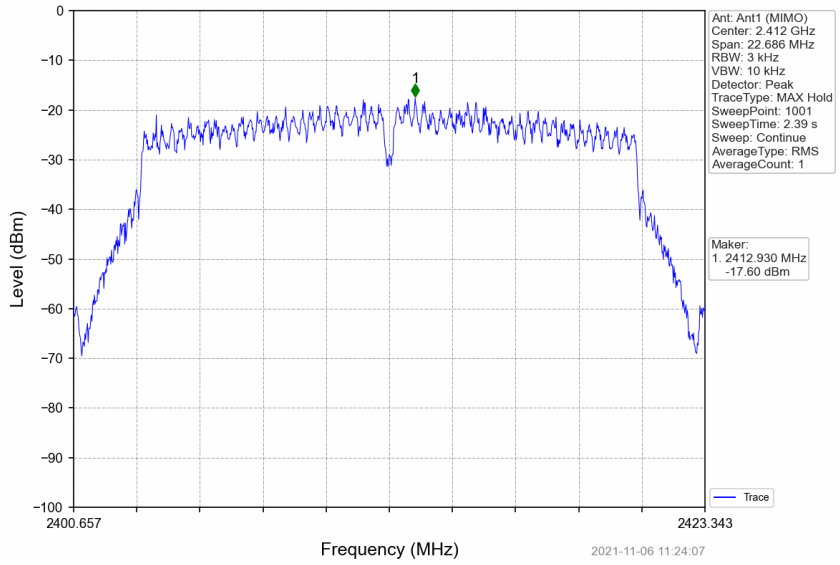
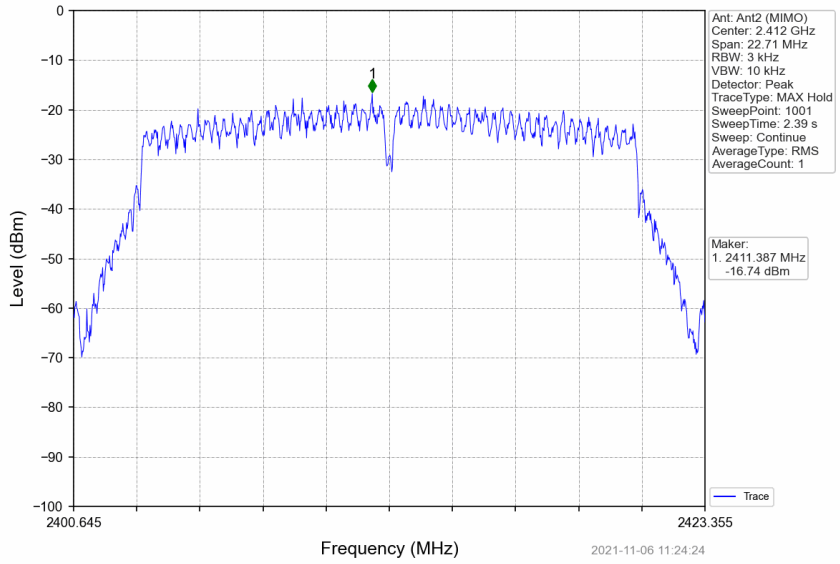
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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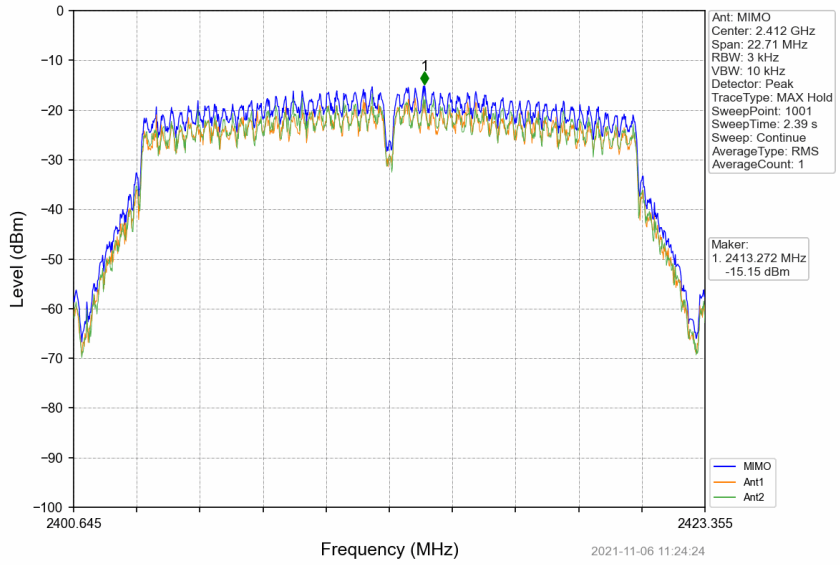
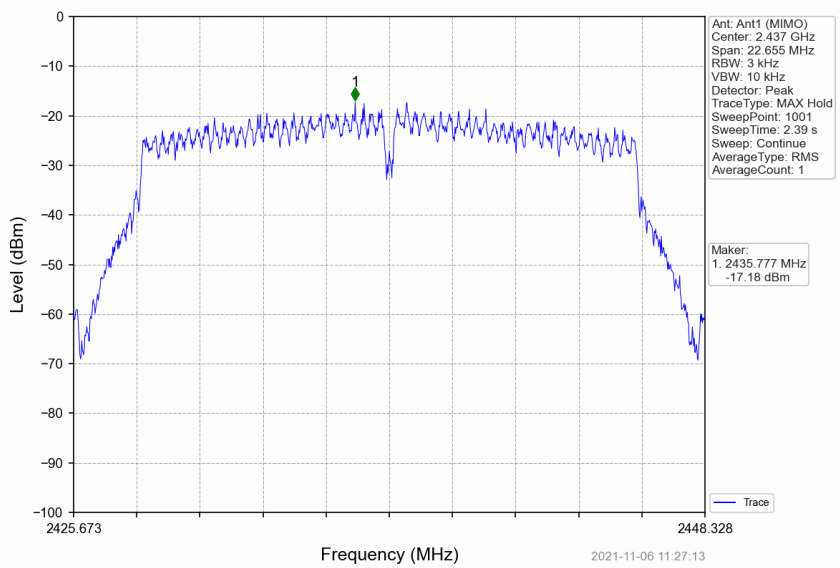
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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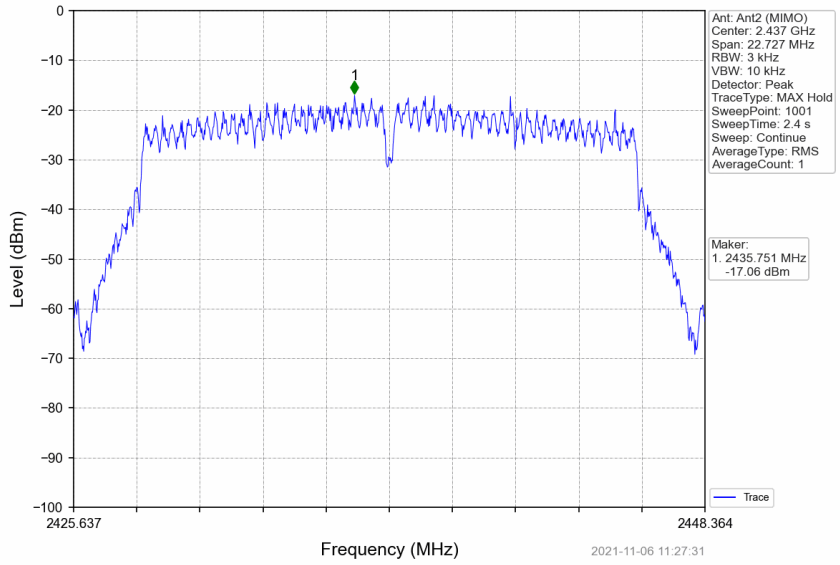
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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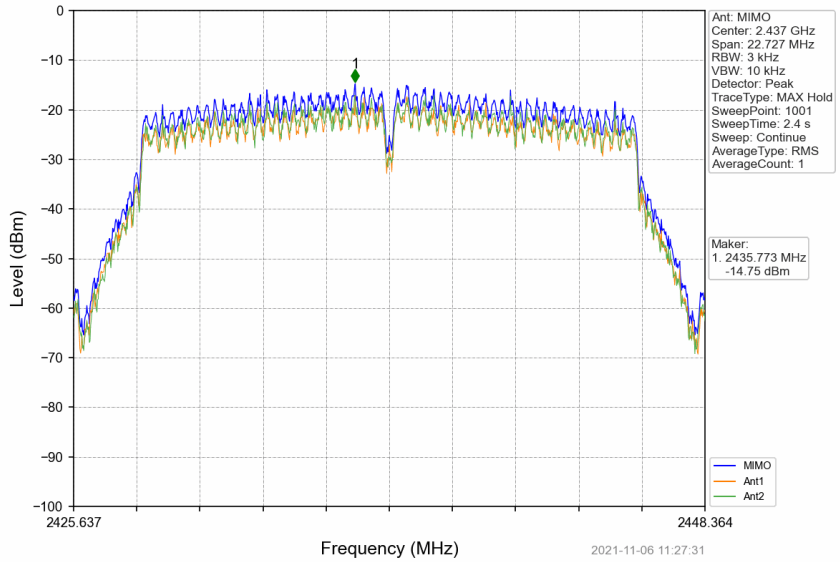

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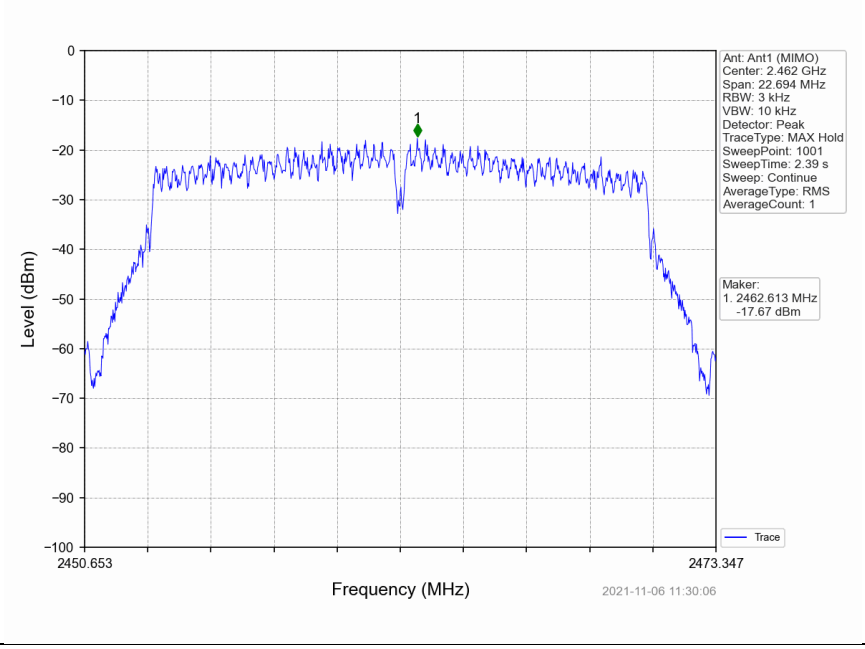
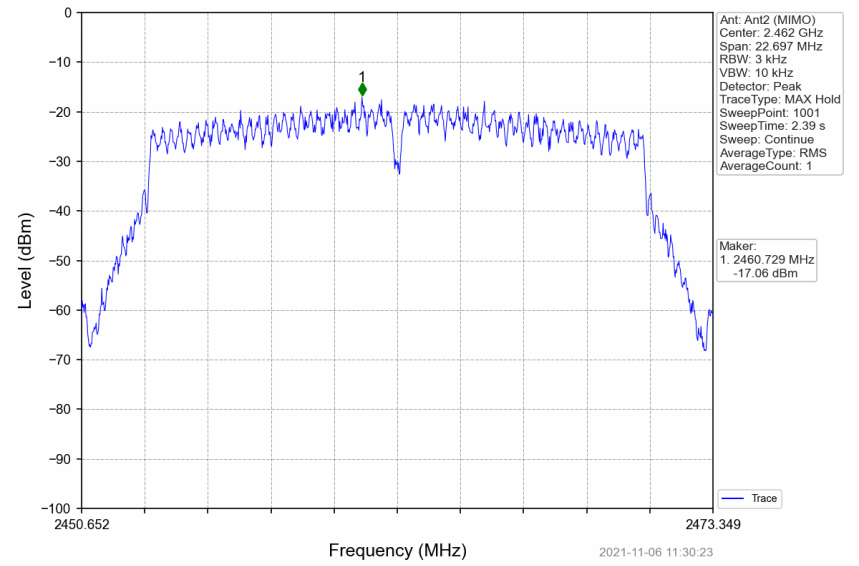
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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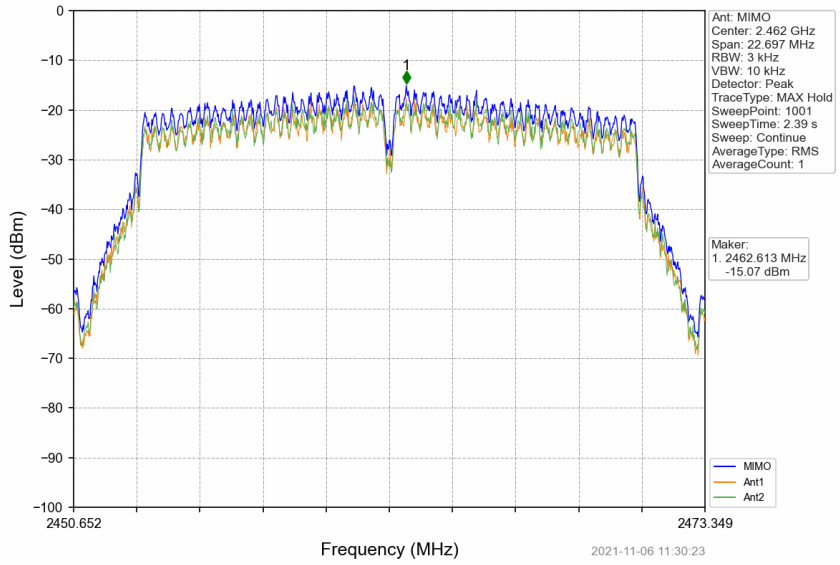
802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



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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	4.38
			2	4.18
		2437	1	4.77
			2	4.20
		2462	1	4.53
			2	3.86
802.11g	SISO	2412	1	-0.15
			2	-0.25
		2437	1	-0.27
			2	-0.21
		2462	1	-0.44
			2	-0.60
802.11n (HT20)	MIMO	2412	1	-1.82
			2	-2.11
		2437	1	-1.71
			2	-1.75
		2462	1	-1.95
			2	-2.25
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.				

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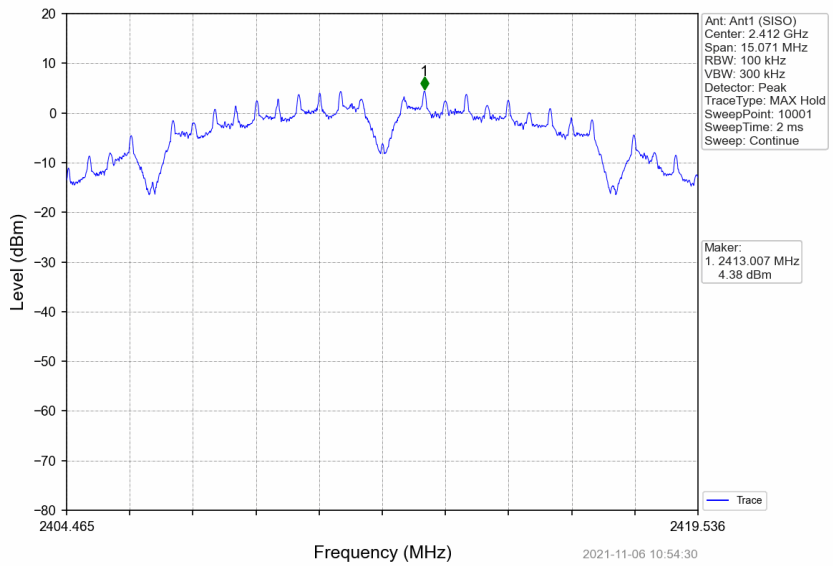
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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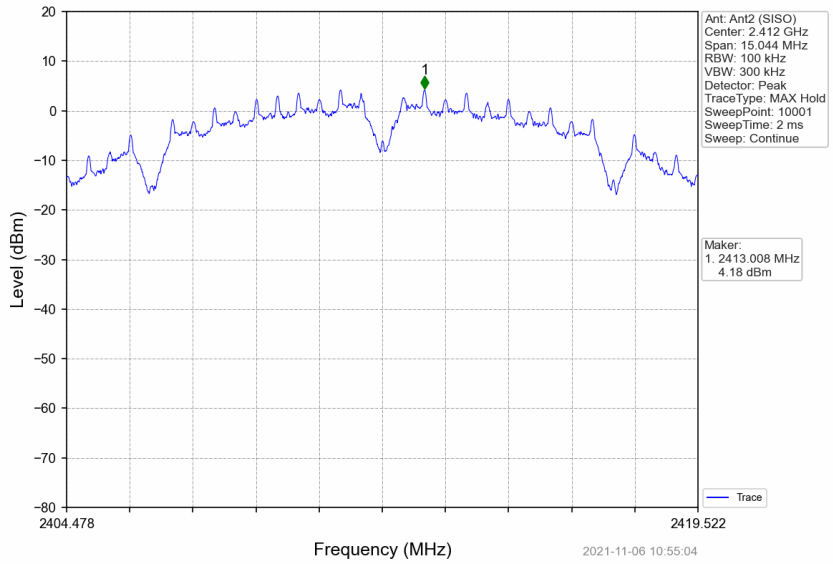

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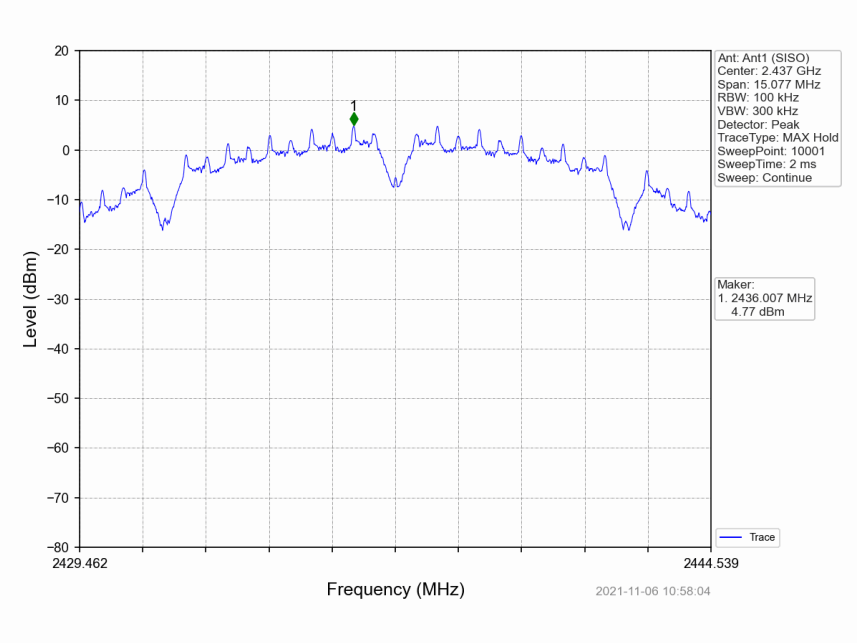
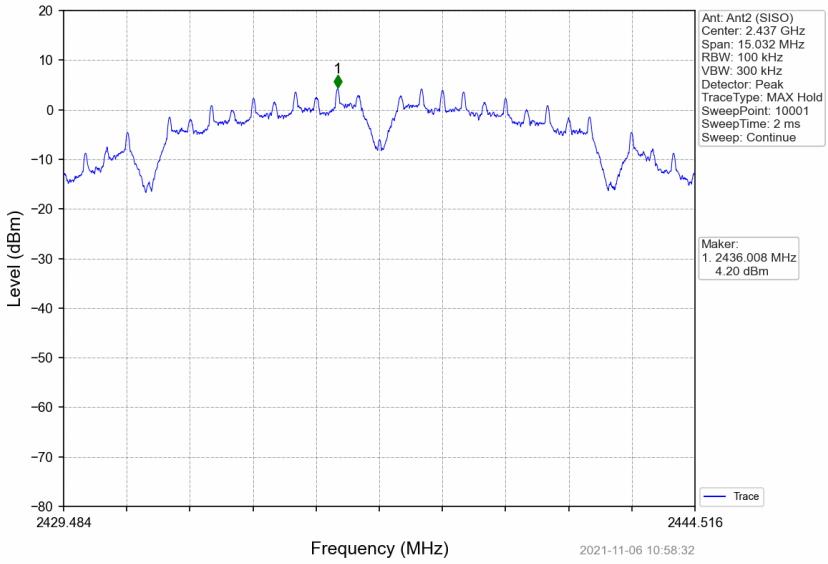
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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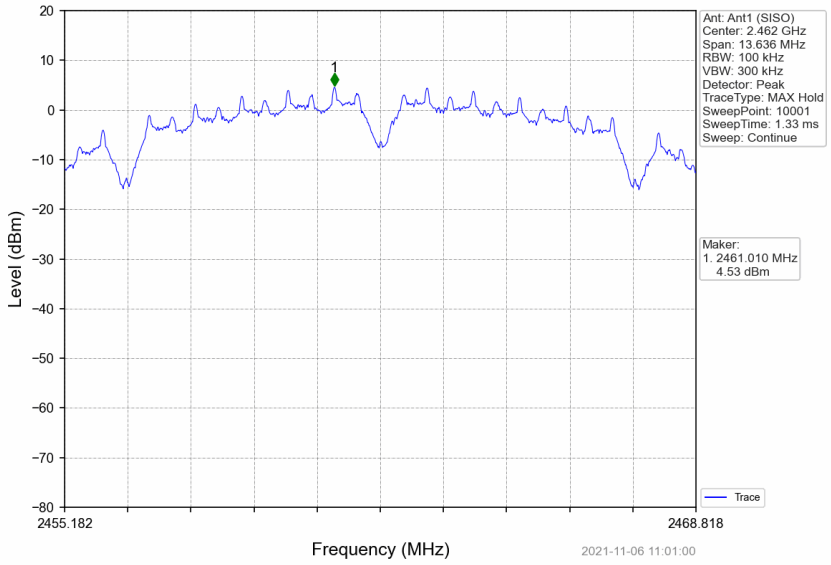
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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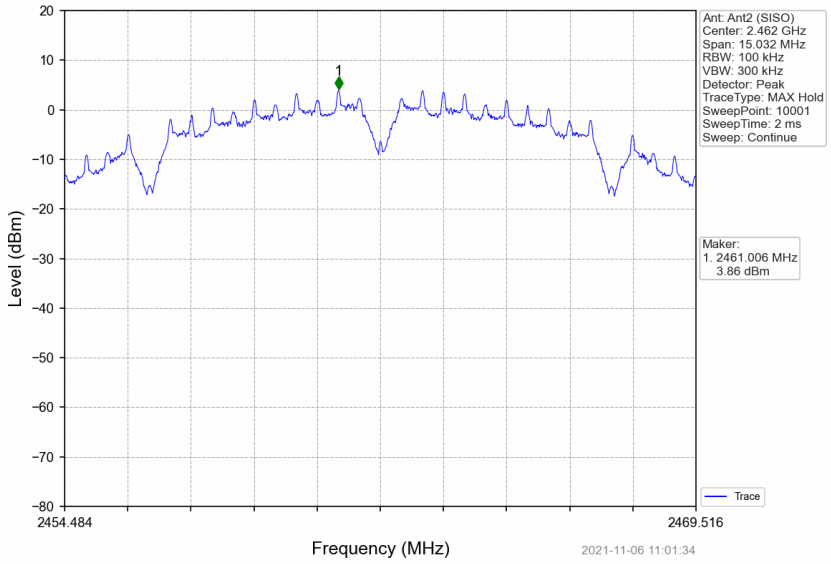

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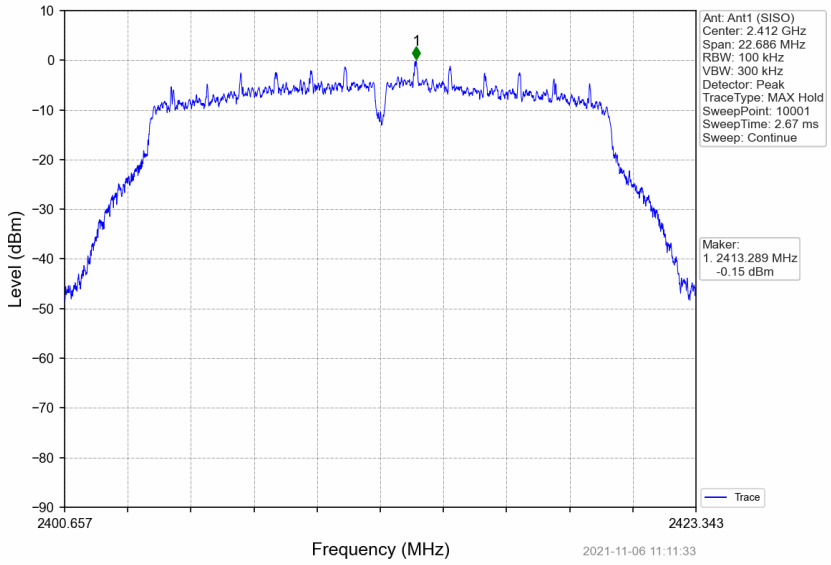
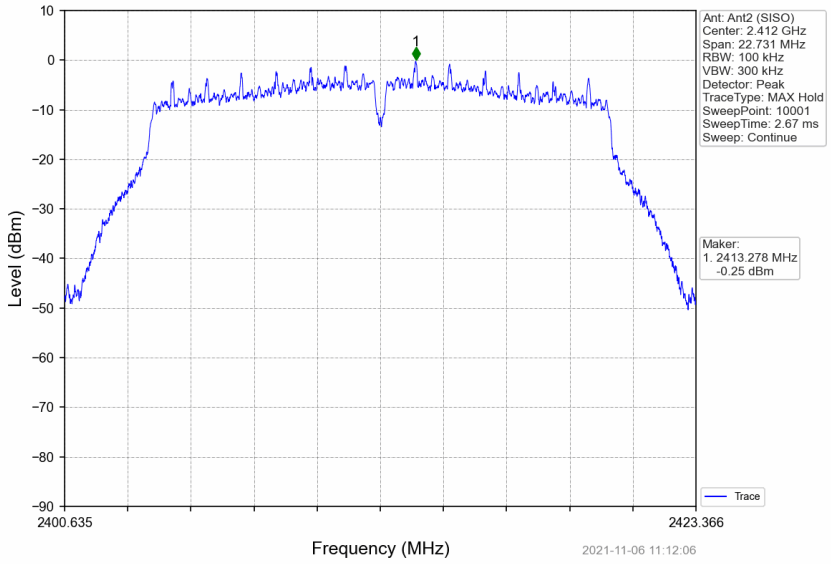
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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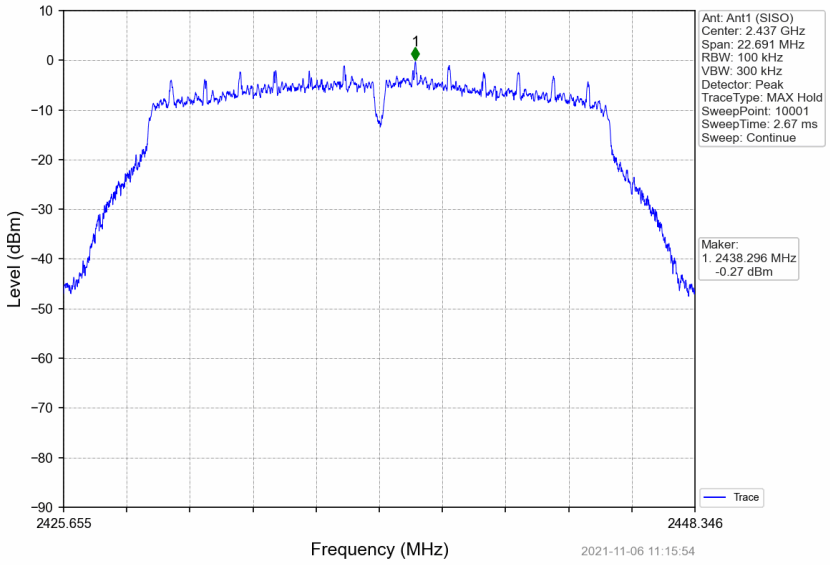
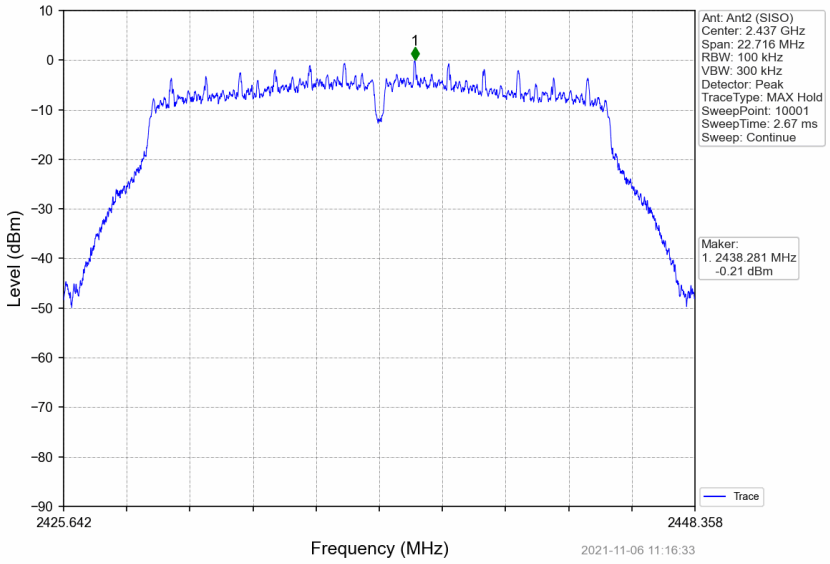
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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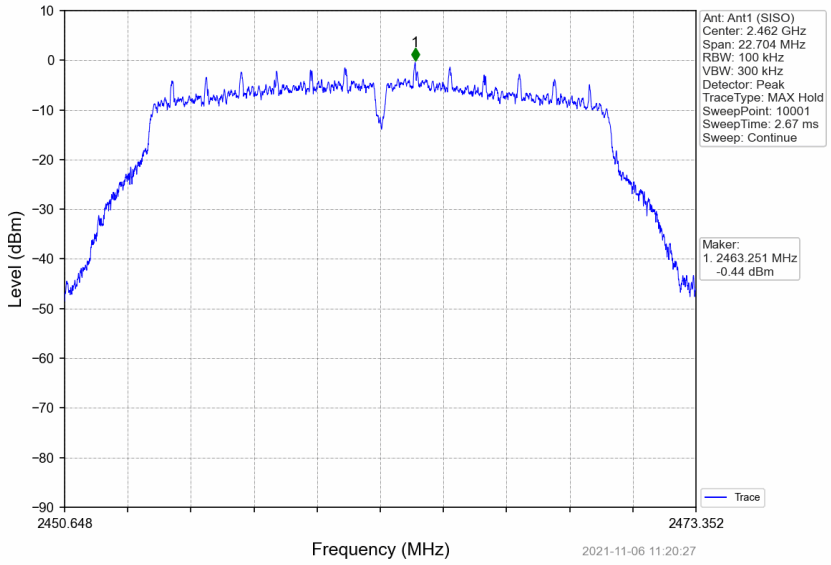
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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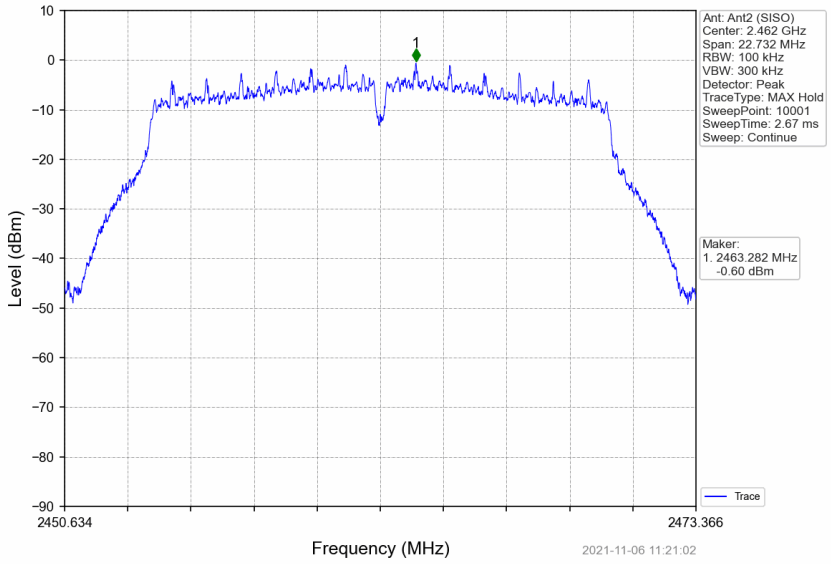

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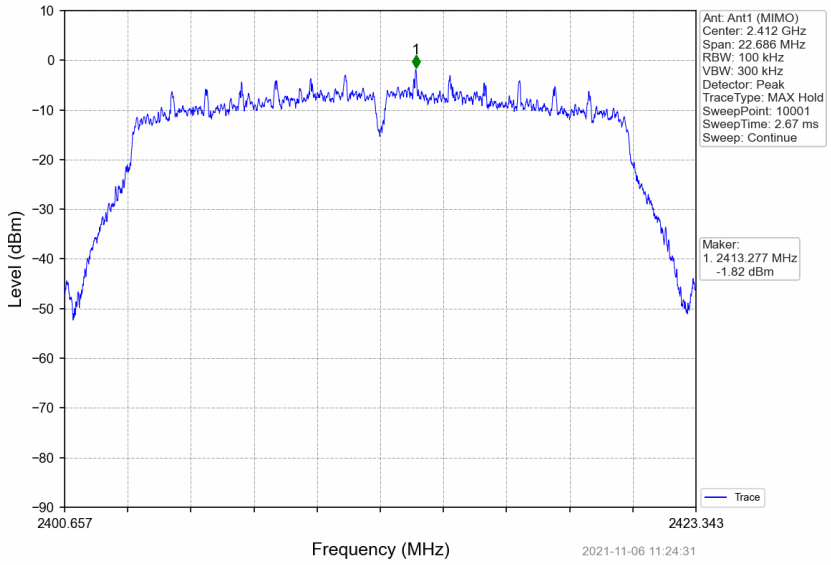
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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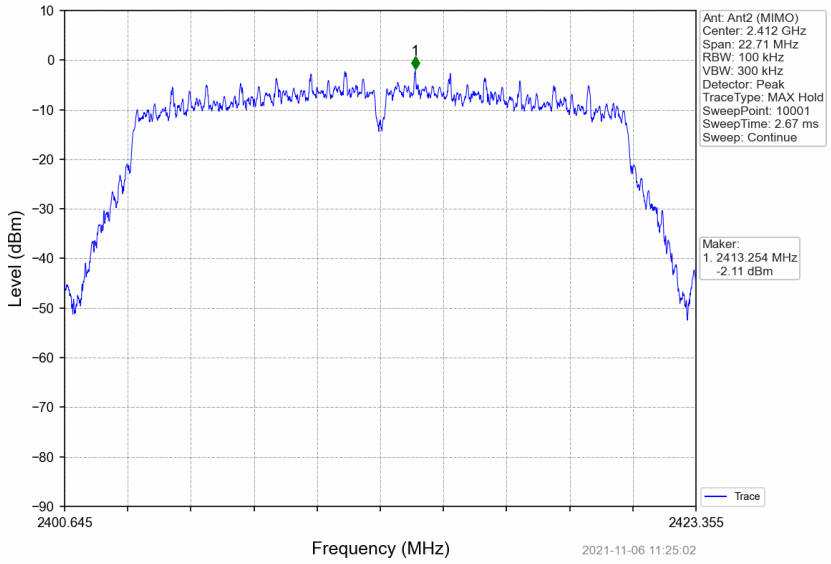

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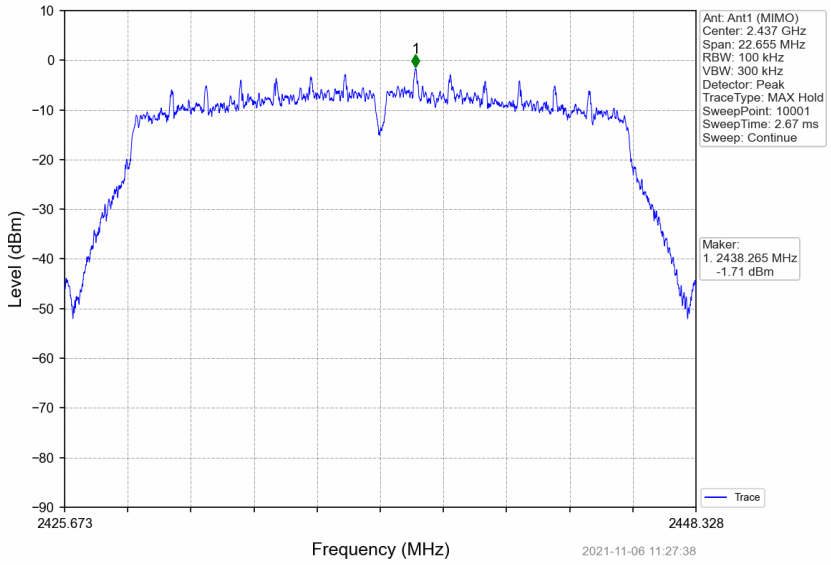
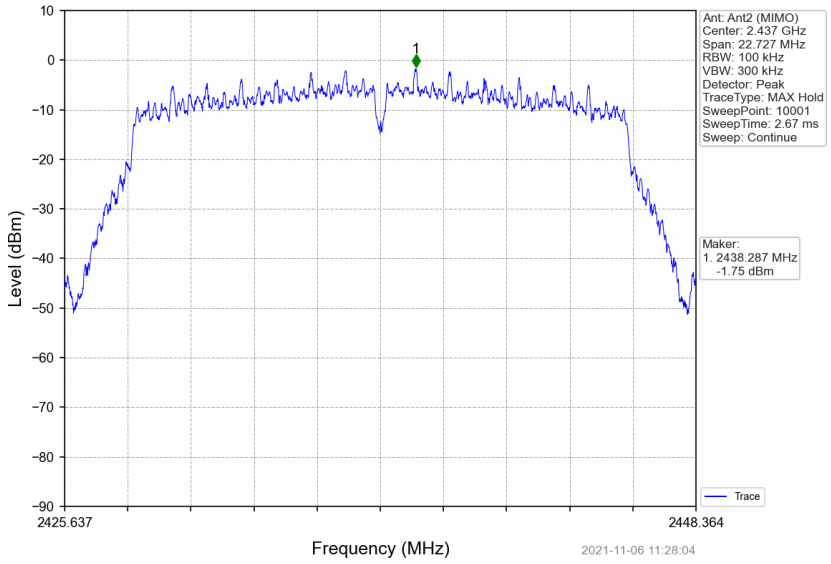
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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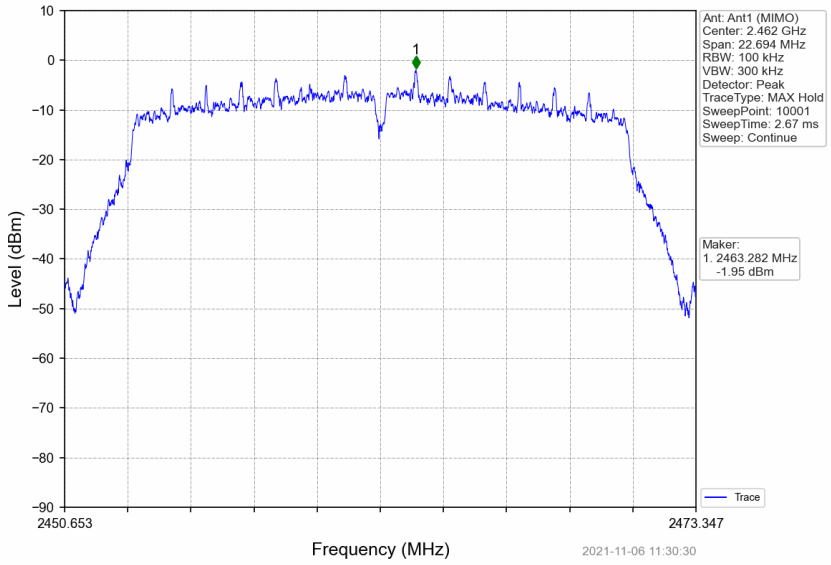
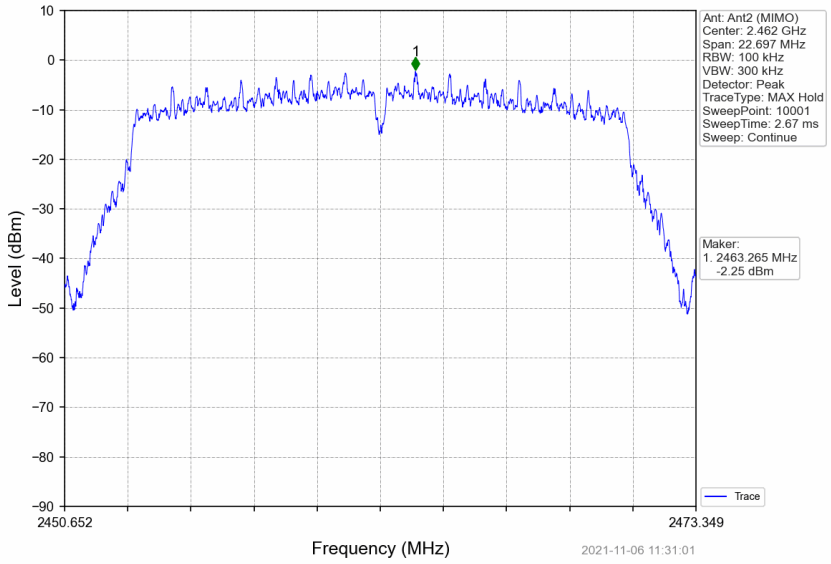
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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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	4.77	-15.23	Pass
			2	4.20	-15.80	Pass
		2437	1	4.77	-15.23	Pass
			2	4.20	-15.80	Pass
		2462	1	4.77	-15.23	Pass
			2	4.20	-15.80	Pass
802.11g	SISO	2412	1	-0.15	-20.15	Pass
			2	-0.21	-20.21	Pass
		2437	1	-0.15	-20.15	Pass
			2	-0.21	-20.21	Pass
		2462	1	-0.15	-20.15	Pass
			2	-0.21	-20.21	Pass
802.11n (HT20)	MIMO	2412	1	-1.71	-21.71	Pass
			2	-1.75	-21.75	Pass
		2437	1	-1.71	-21.71	Pass
			2	-1.75	-21.75	Pass
		2462	1	-1.71	-21.71	Pass
			2	-1.75	-21.75	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.						

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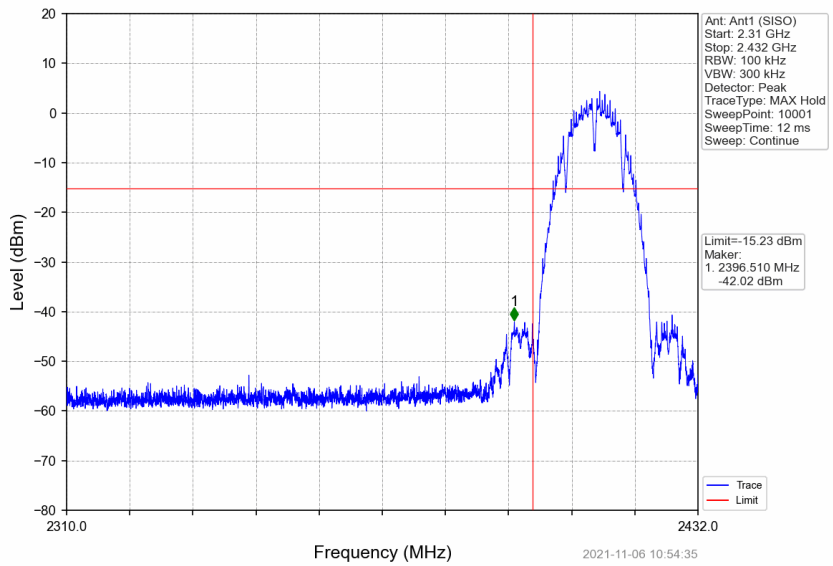
5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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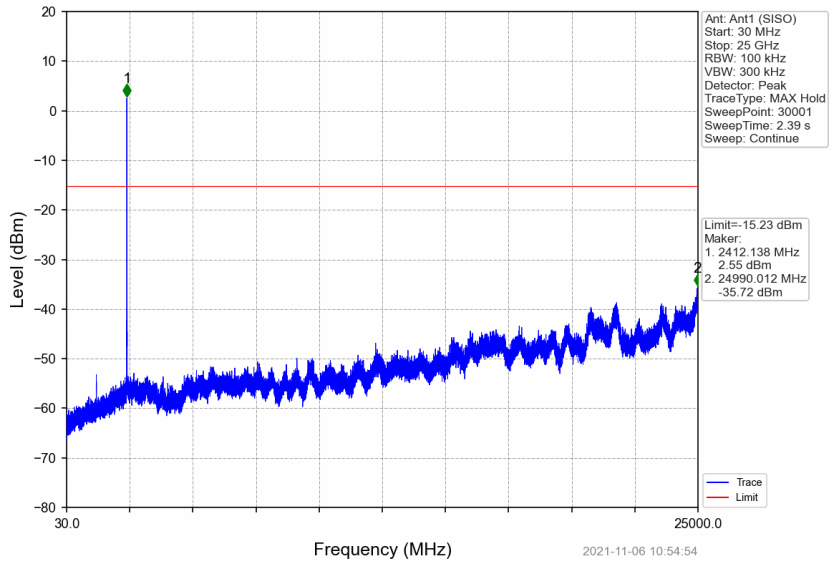

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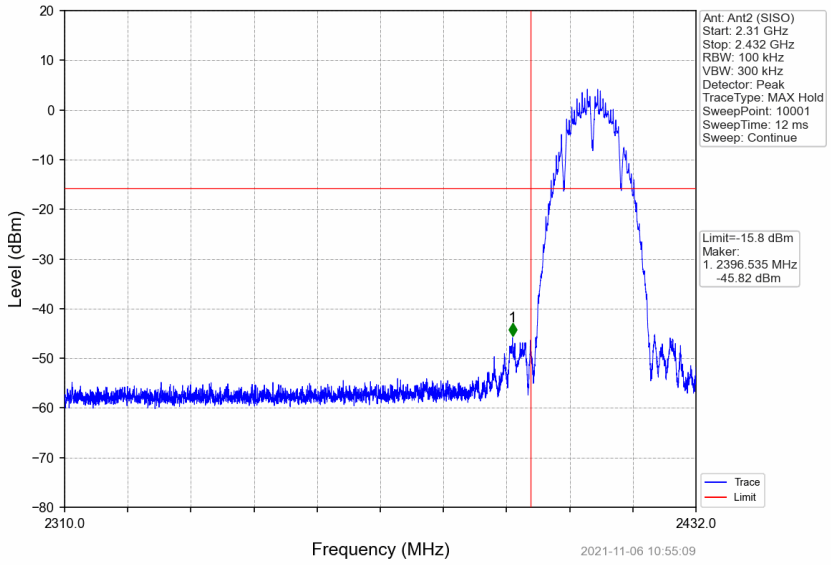
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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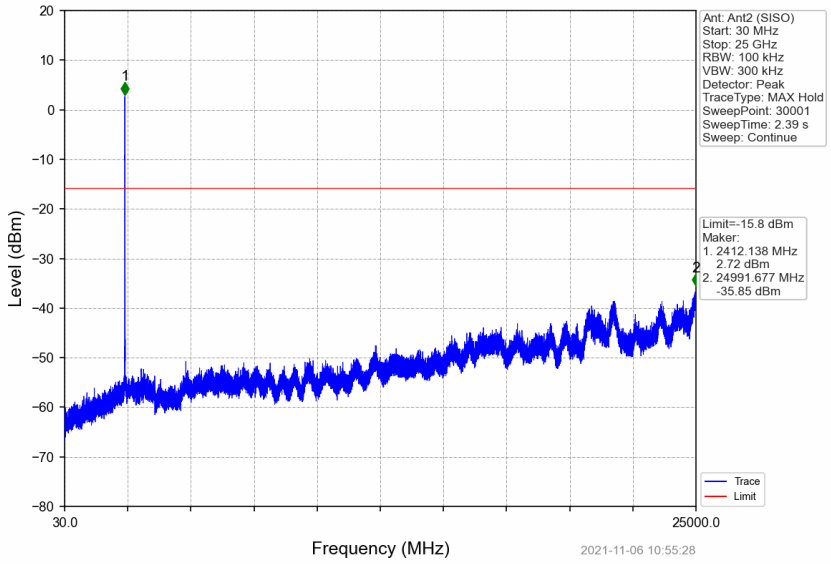

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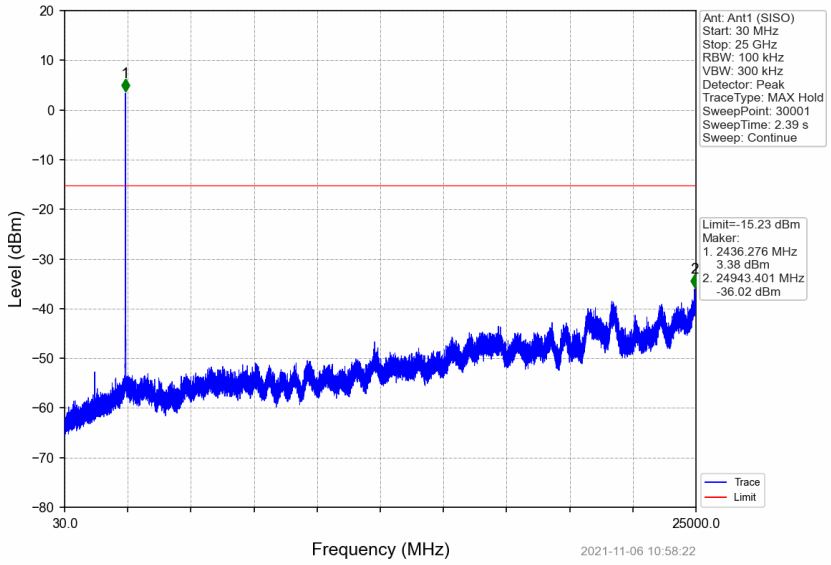
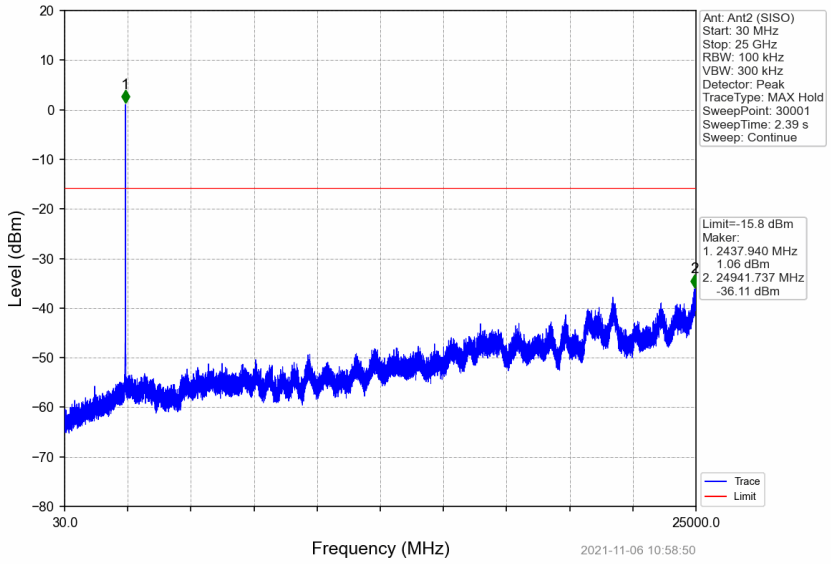


802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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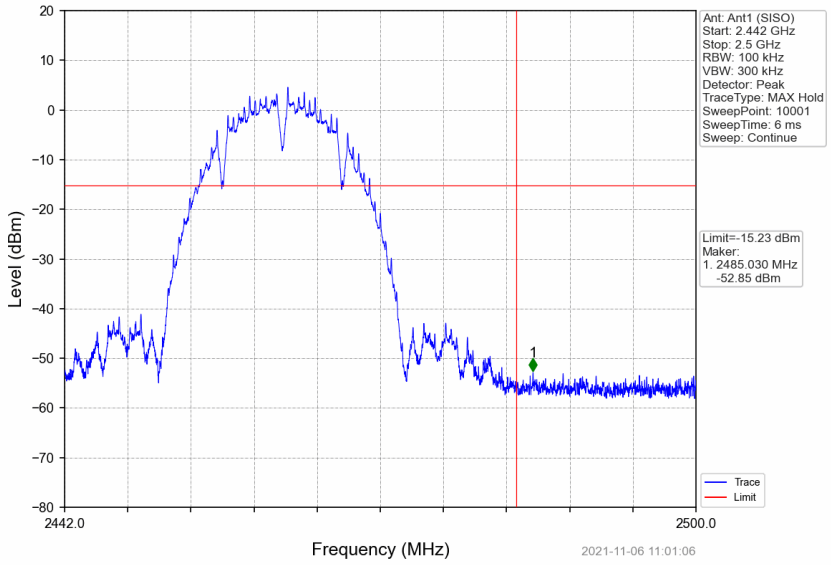
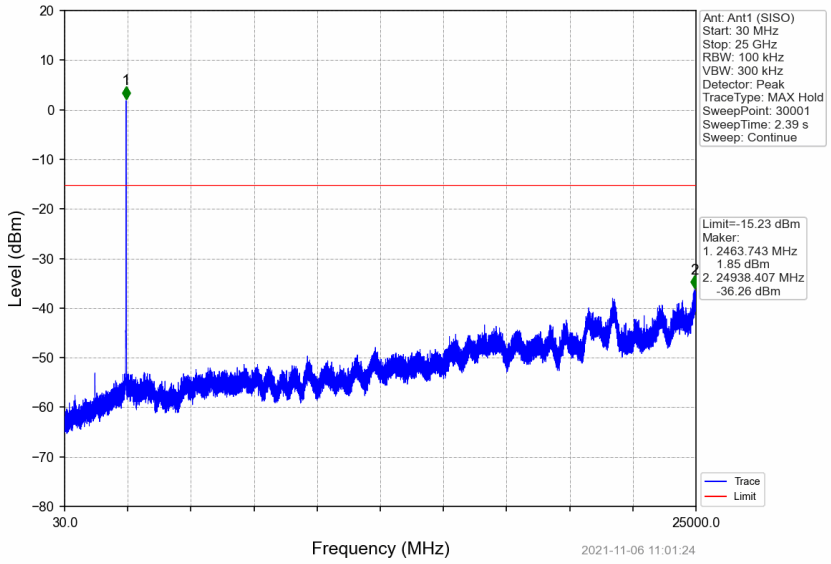


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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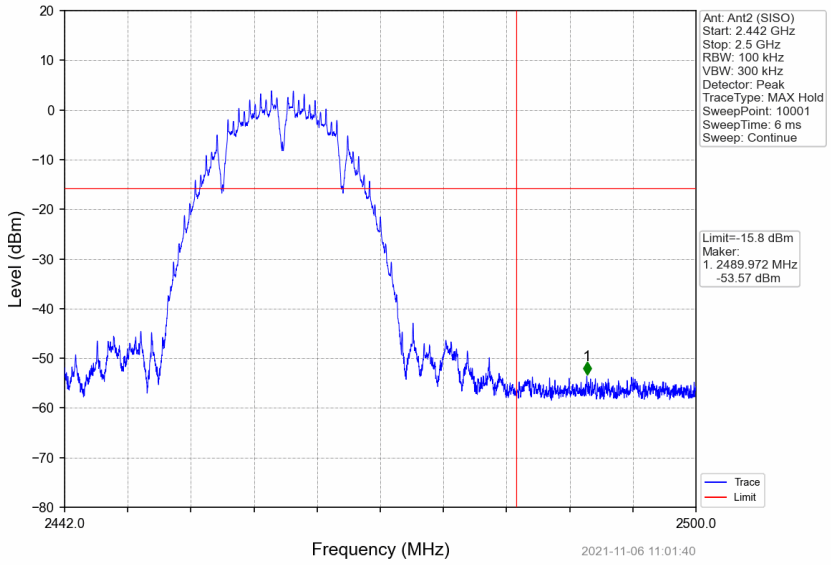
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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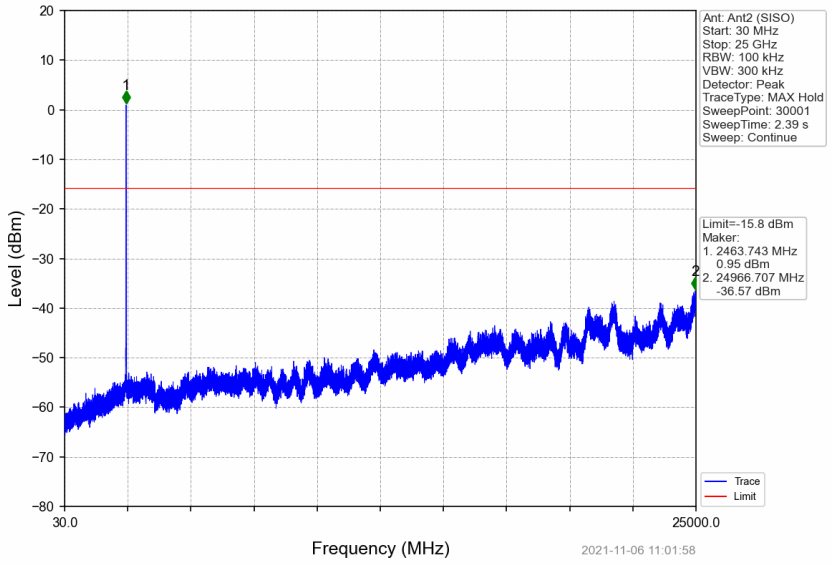

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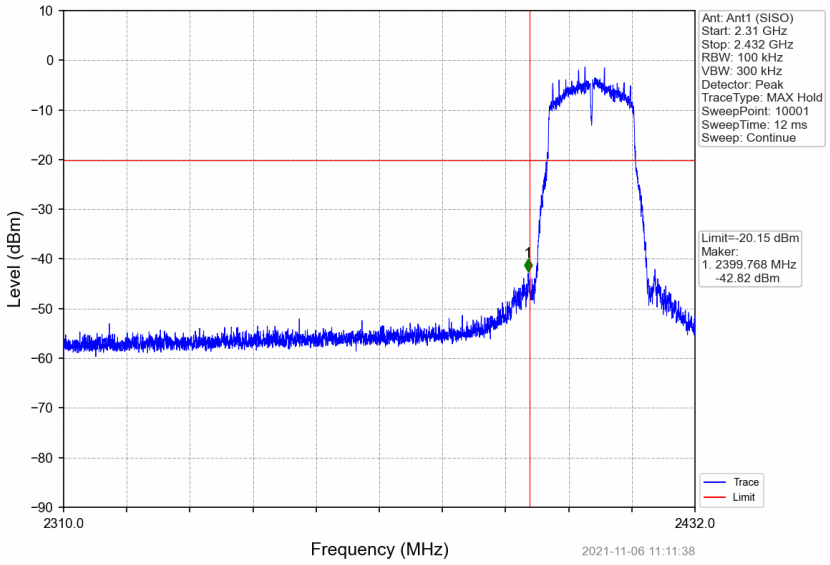
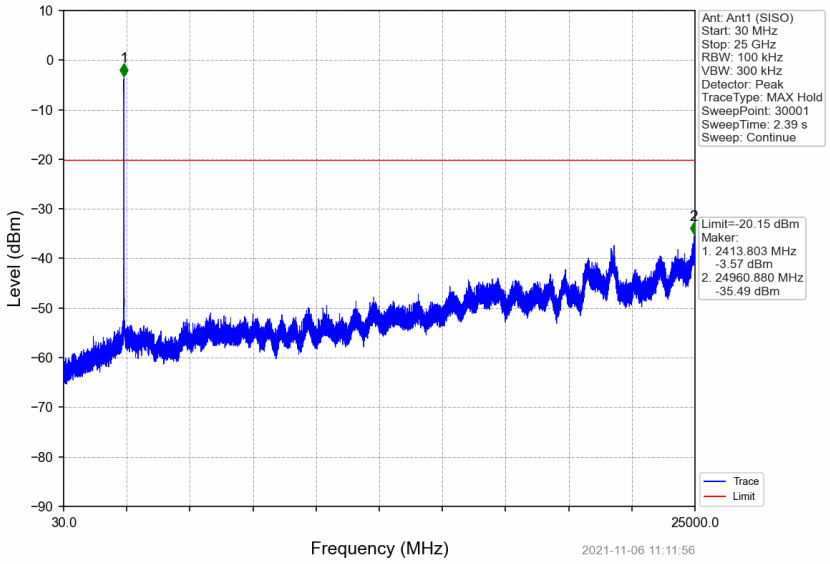
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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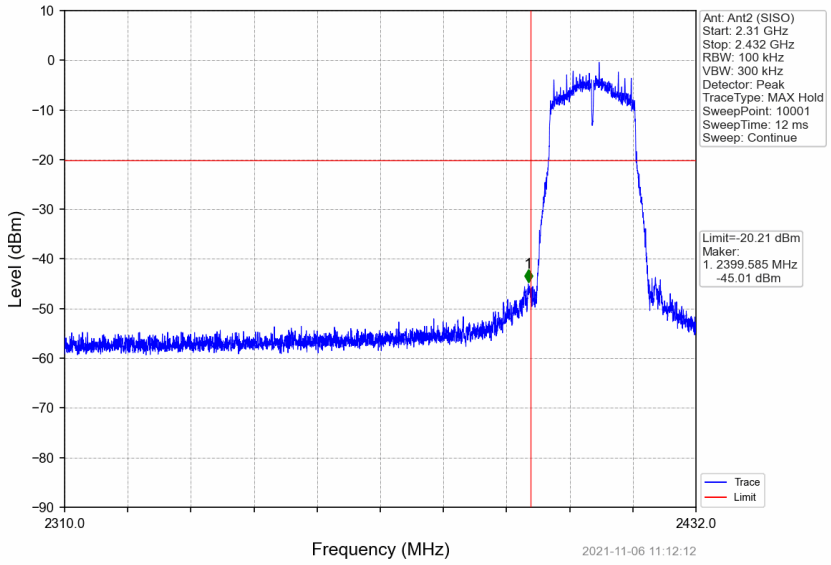
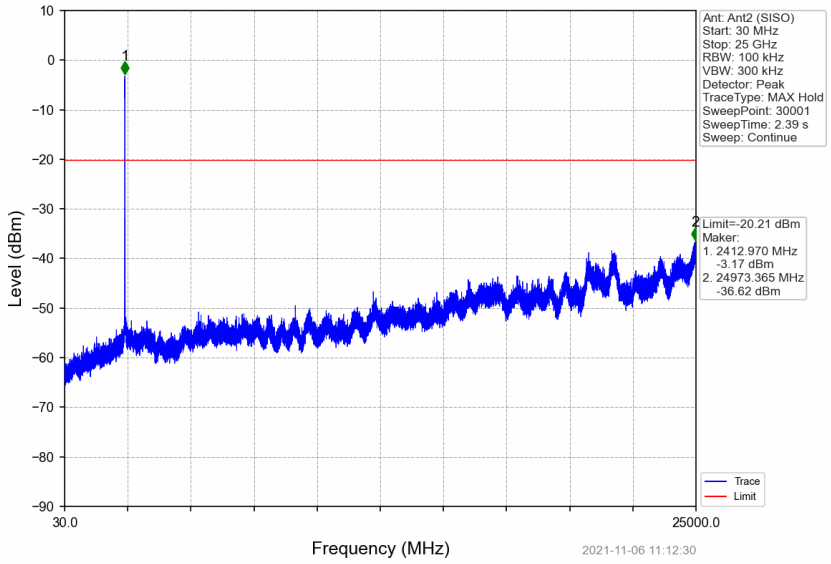
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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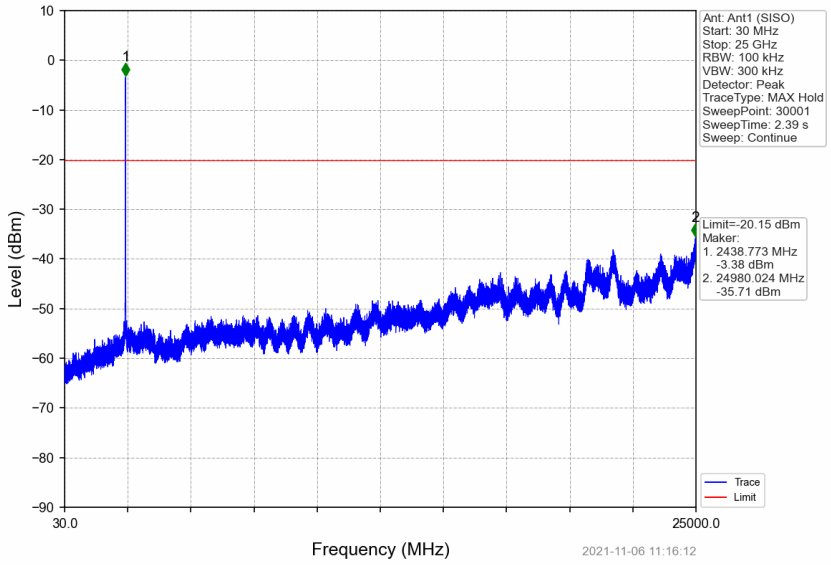
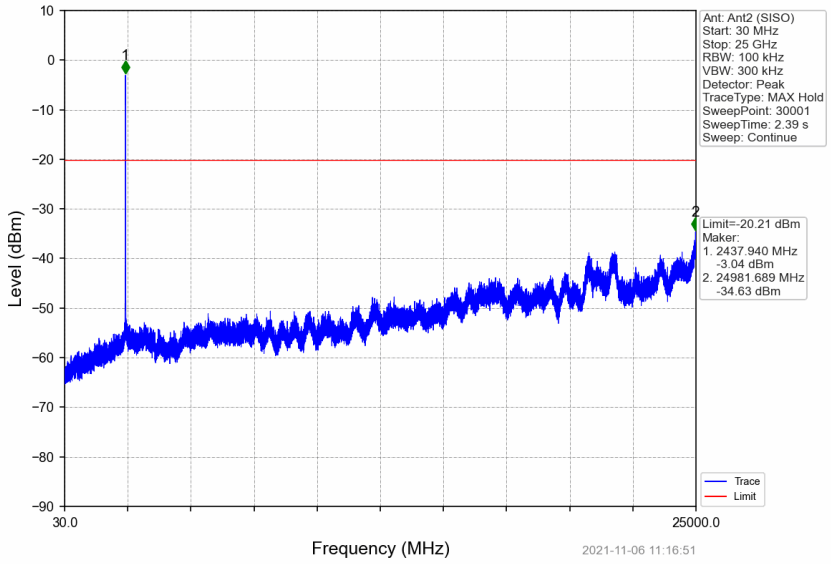
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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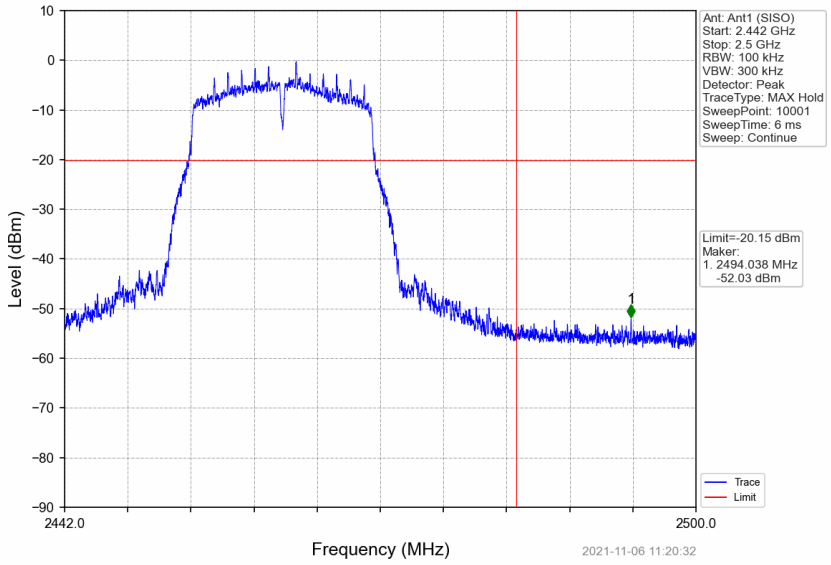
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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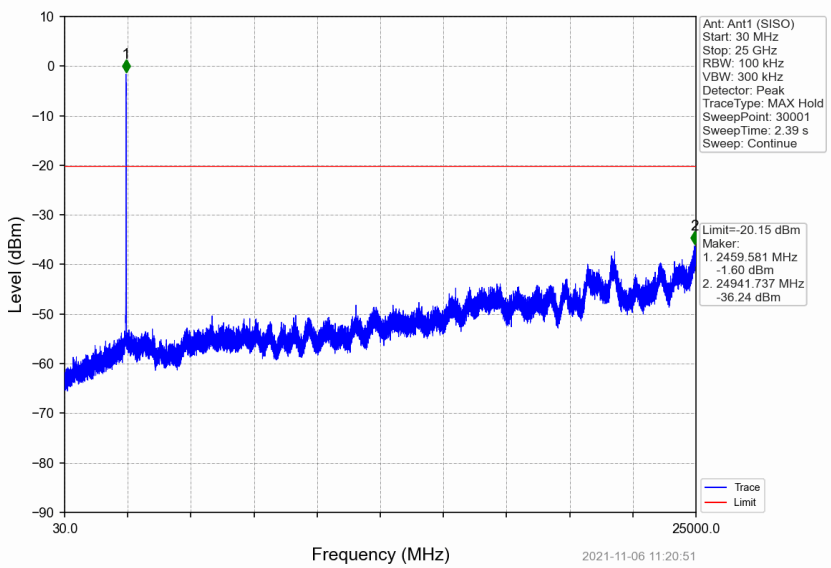

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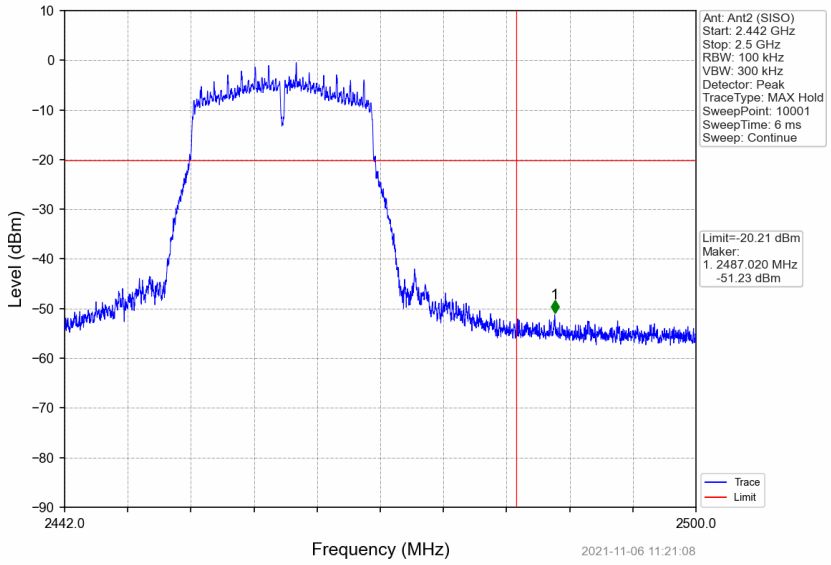
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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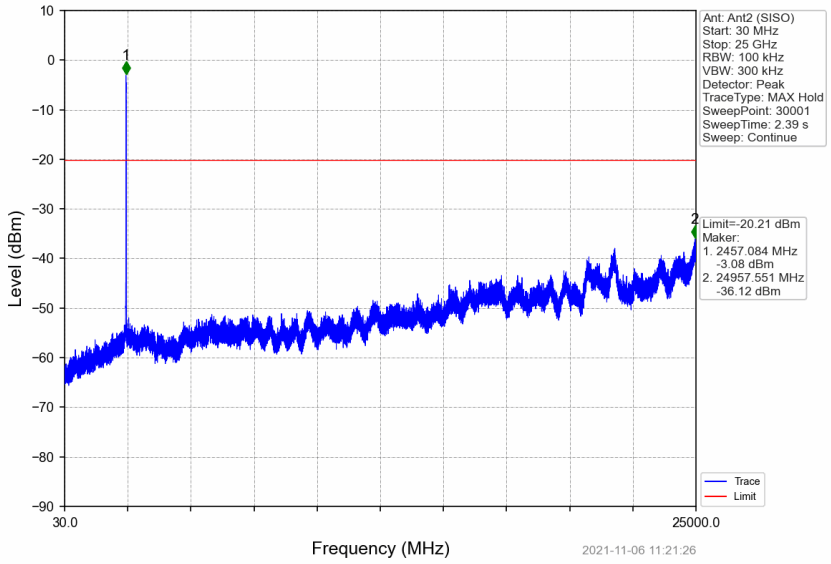

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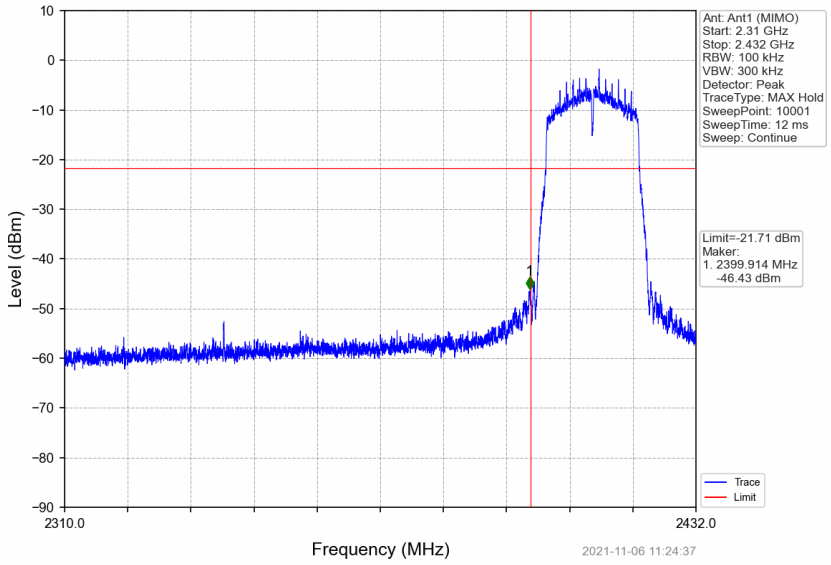
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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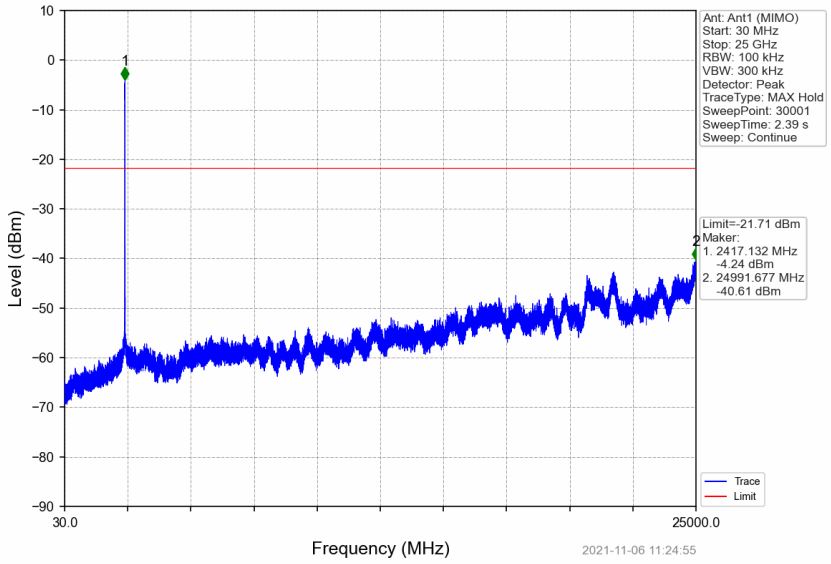

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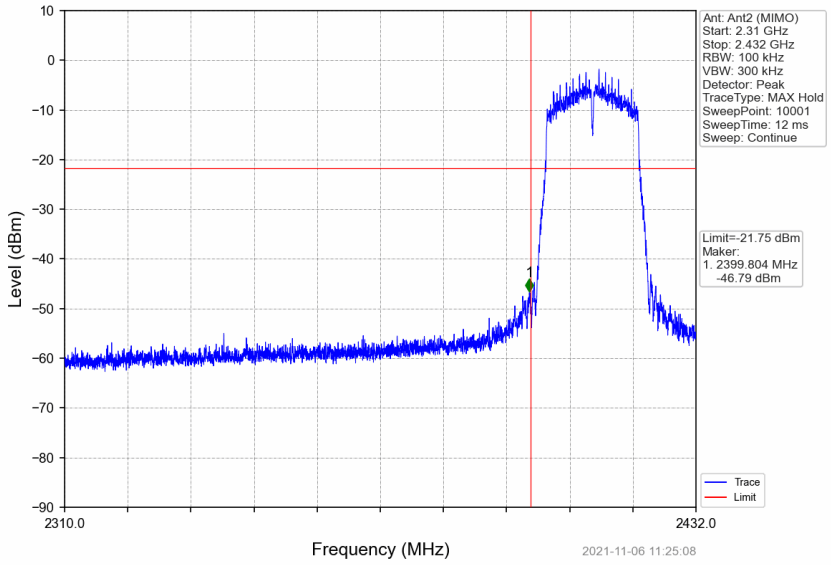
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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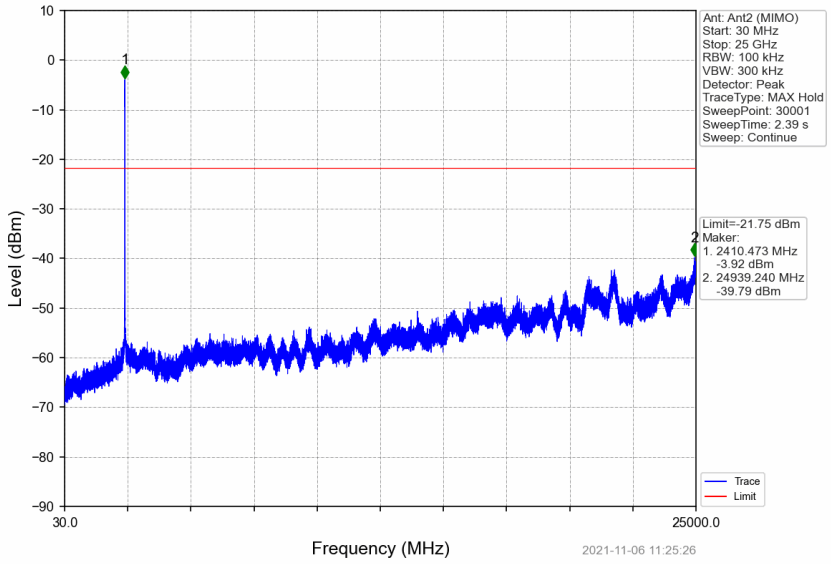

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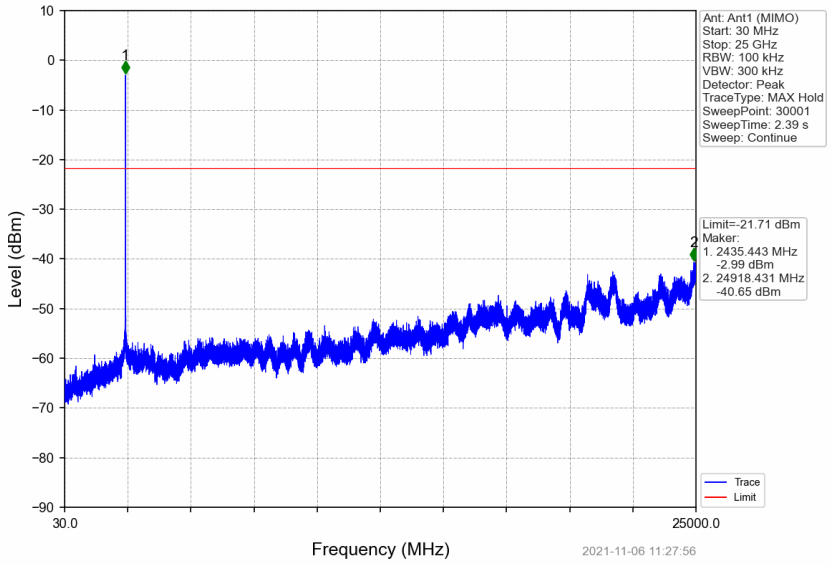
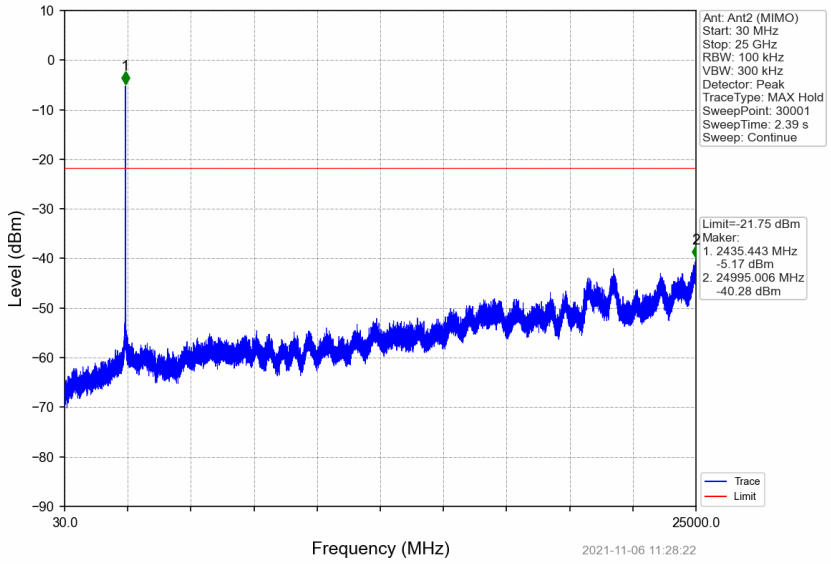
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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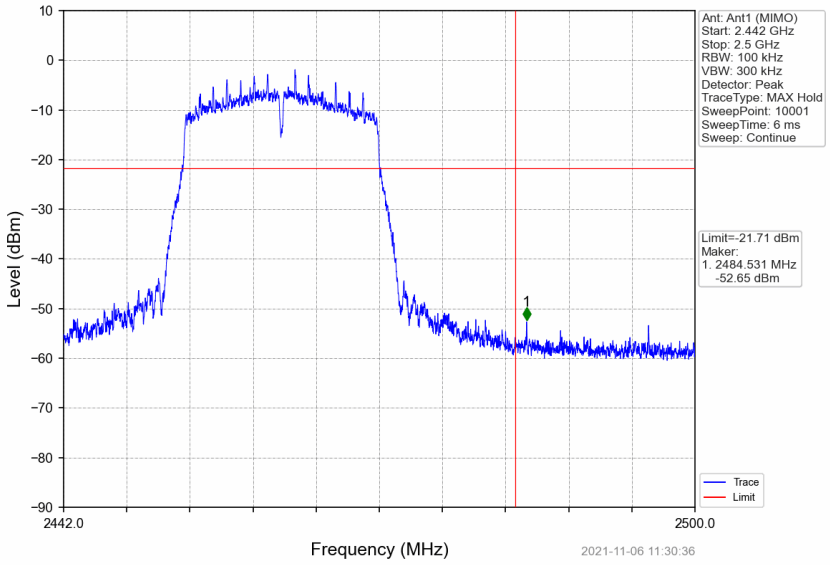
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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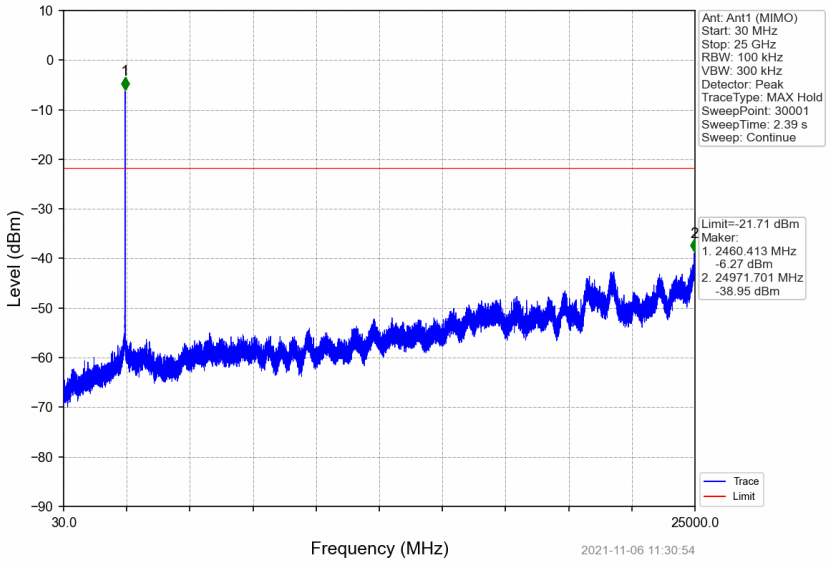

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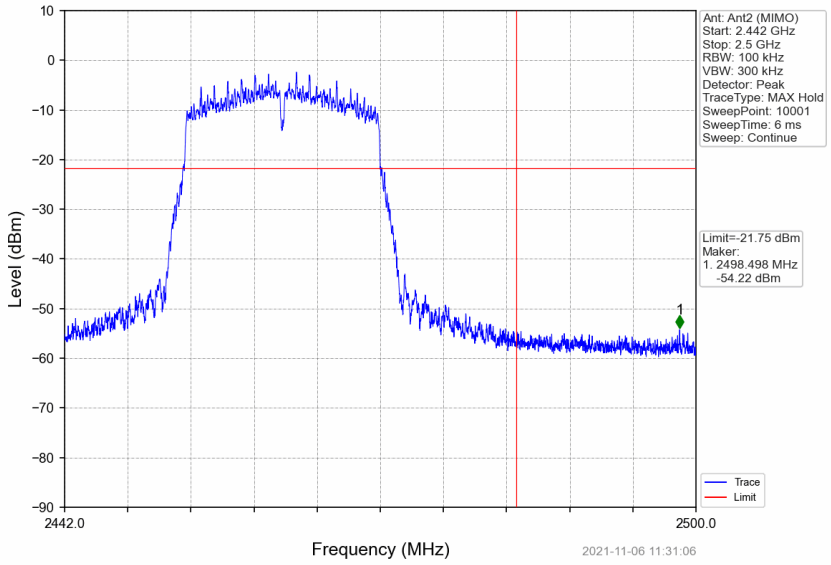
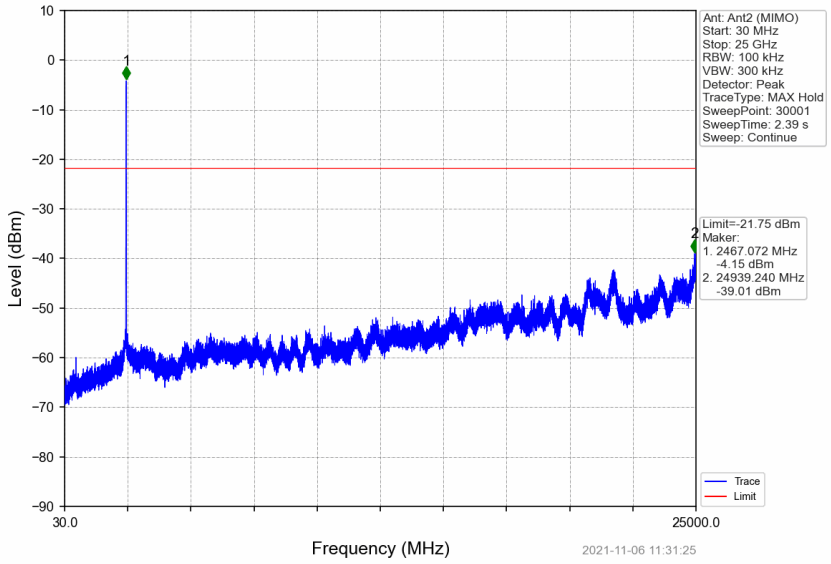
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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