Appendix A for KSCR211200030501

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	12.414	12.710	97.67	0.10	0.00
		2437	12.414	12.710	97.67	0.10	0.00
		2462	12.413	12.713	97.64	0.10	0.03
802.11g	SISO	2412	2.063	2.366	87.19	0.60	0.03
		2437	2.063	2.366	87.19	0.60	0.03
		2462	2.064	2.367	87.20	0.59	0.03
802.11n (HT20)	SISO	2412	1.919	2.222	86.36	0.64	0.04
		2437	1.919	2.222	86.36	0.64	0.04
		2462	1.919	2.222	86.36	0.64	0.04
802.11n (HT40)	SISO	2422	0.944	1.246	75.76	1.21	0.01
		2437	0.944	1.247	75.70	1.21	0.03
		2452	0.946	1.248	75.80	1.20	0.05

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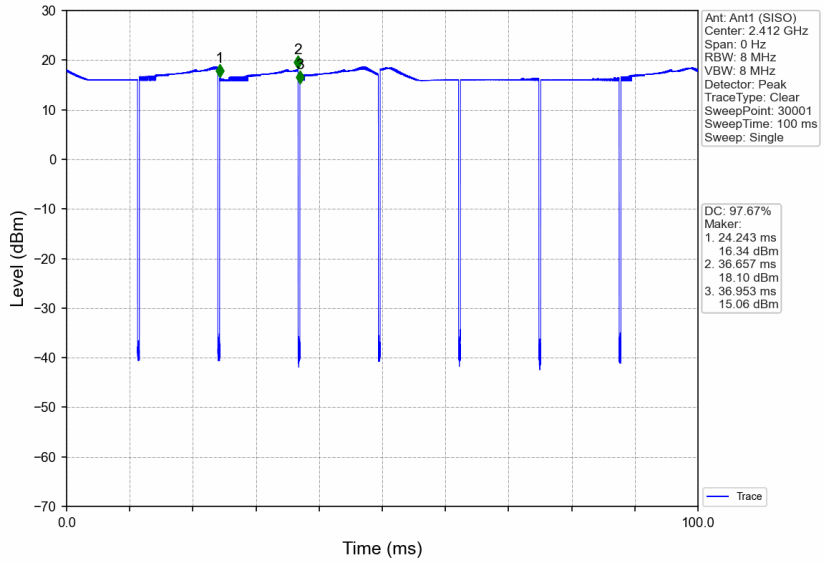
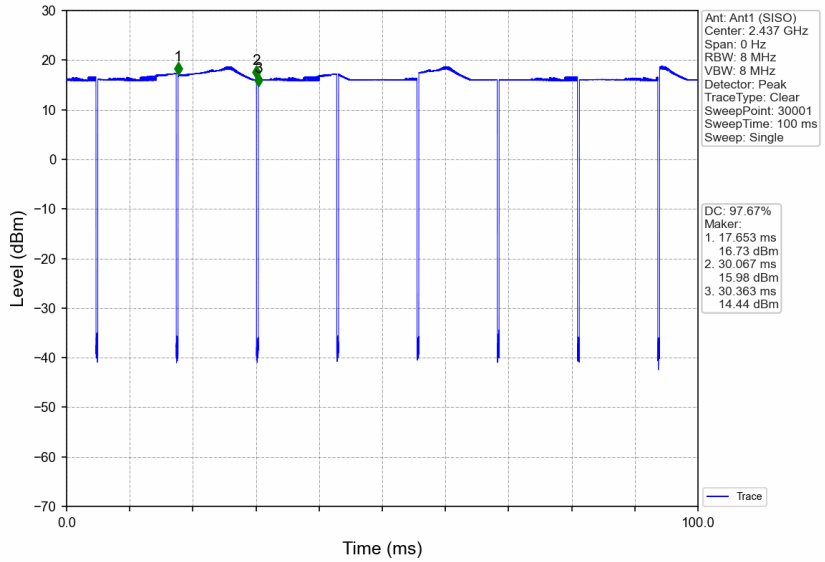
1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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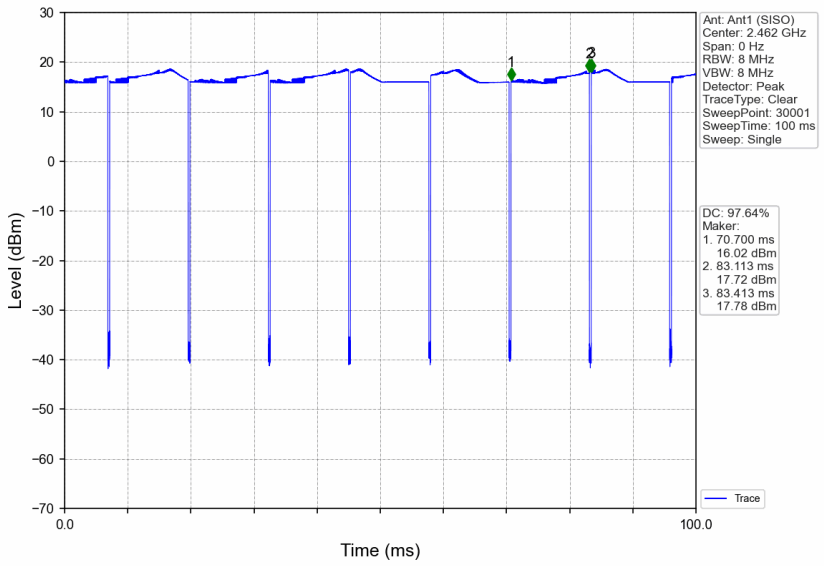
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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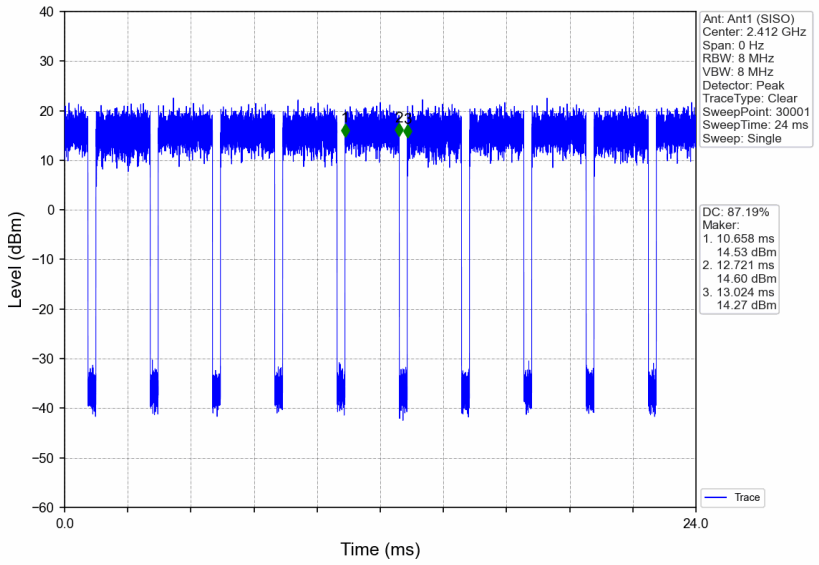

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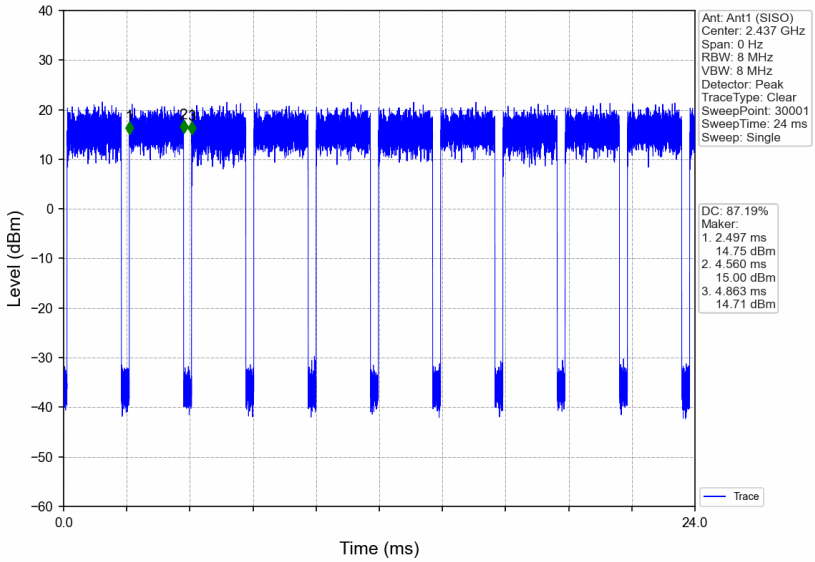
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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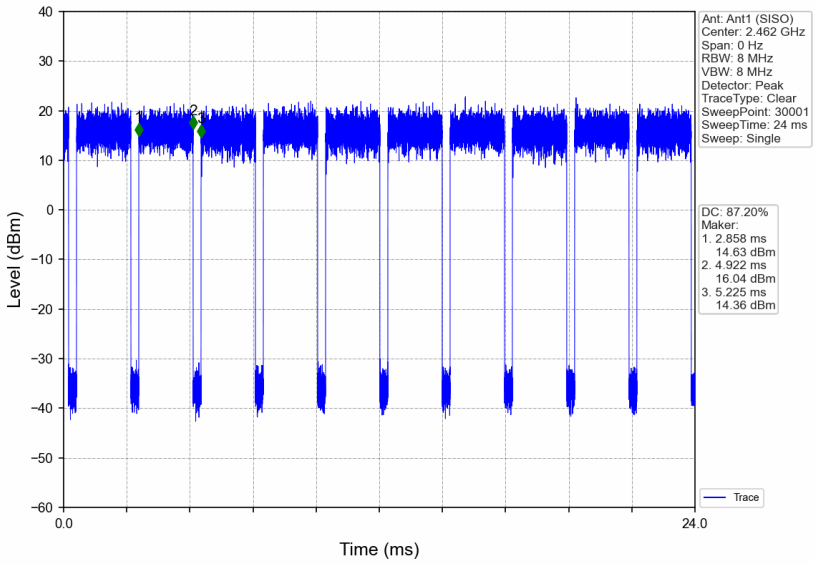

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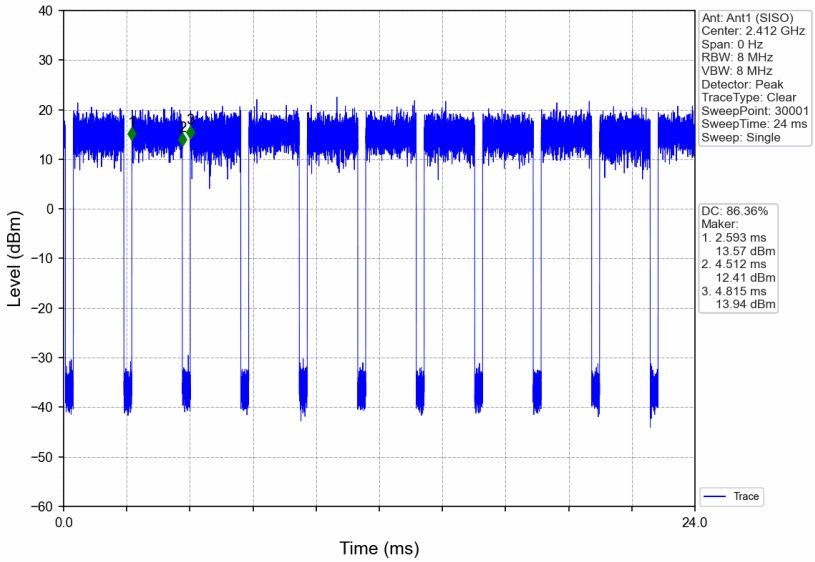
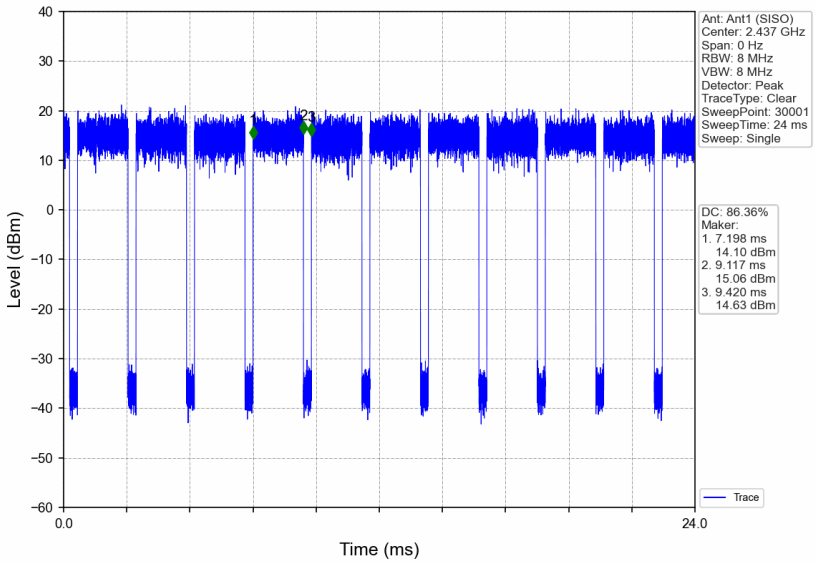
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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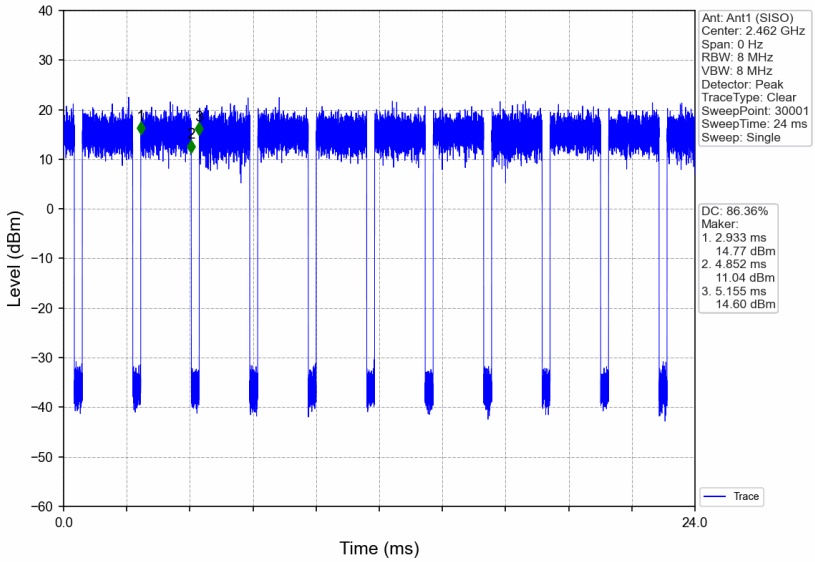
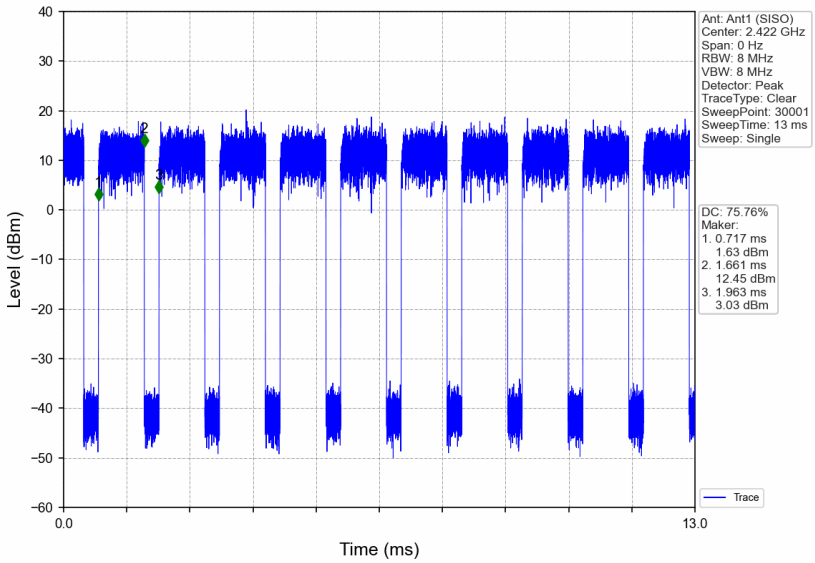
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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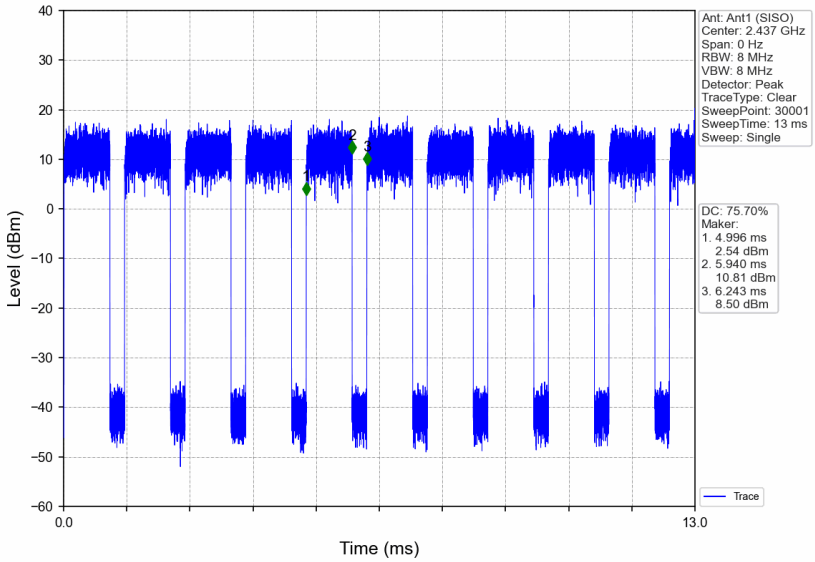
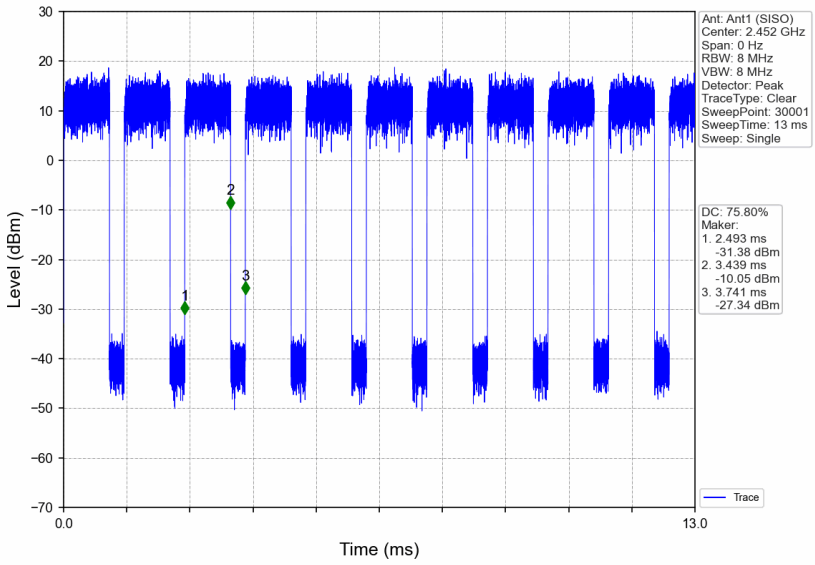
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_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	11.650	Pass
		2437	1	11.667	Pass
		2462	1	11.784	Pass
802.11g	SISO	2412	1	17.700	Pass
		2437	1	17.935	Pass
		2462	1	17.638	Pass
802.11n (HT20)	SISO	2412	1	18.656	Pass
		2437	1	18.858	Pass
		2462	1	18.537	Pass
802.11n (HT40)	SISO	2422	1	36.761	Pass
		2437	1	36.832	Pass
		2452	1	36.740	Pass

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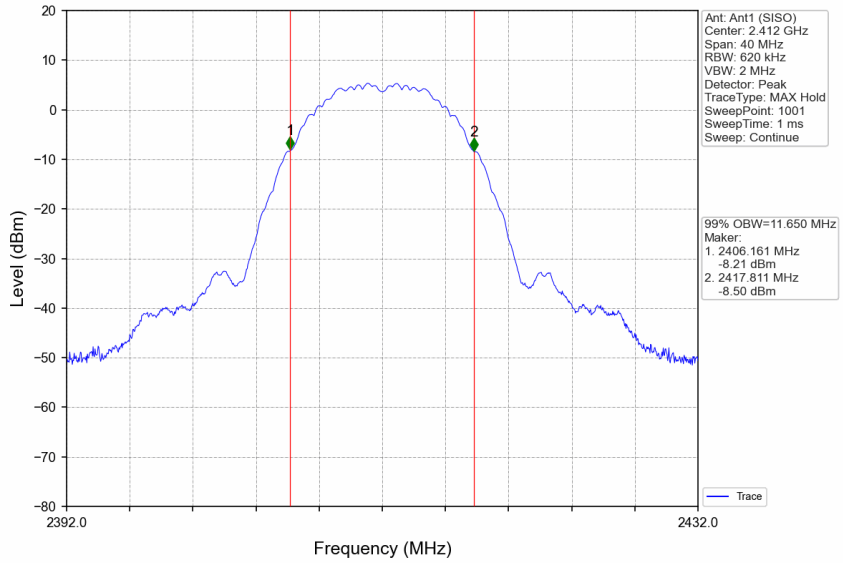
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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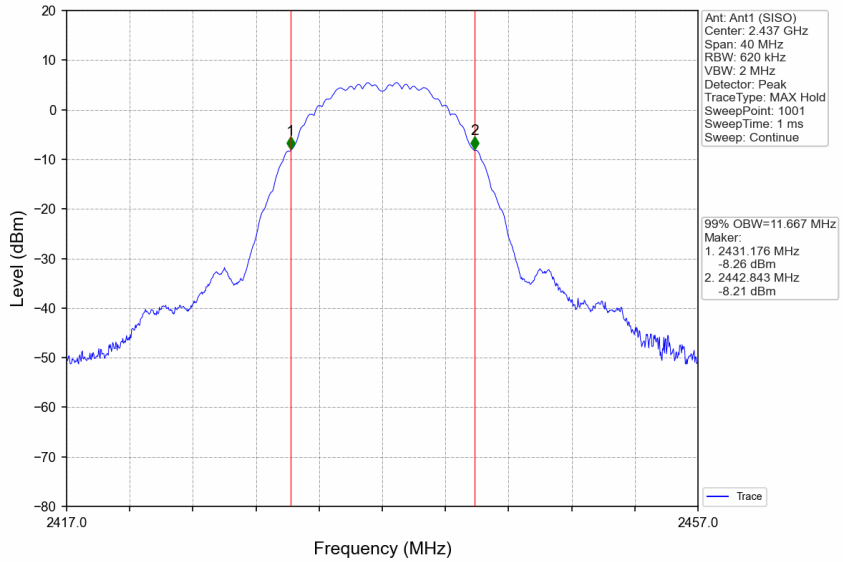

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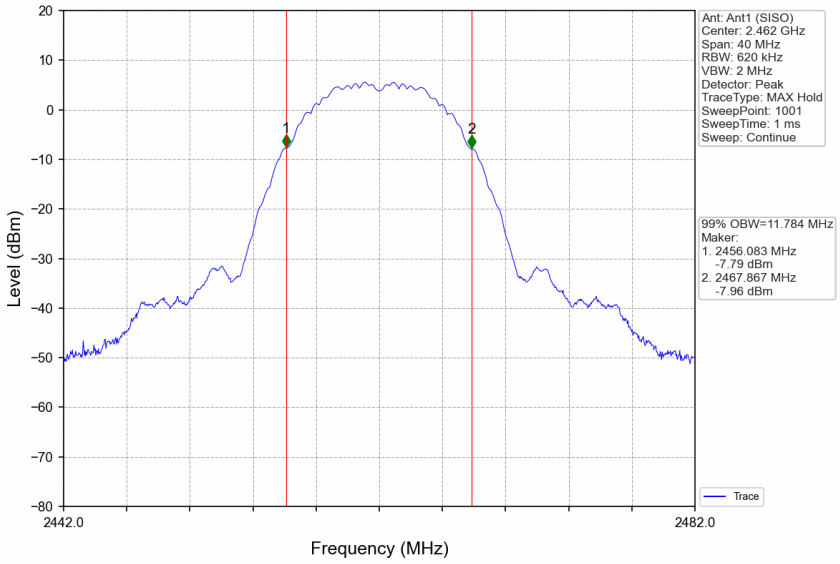
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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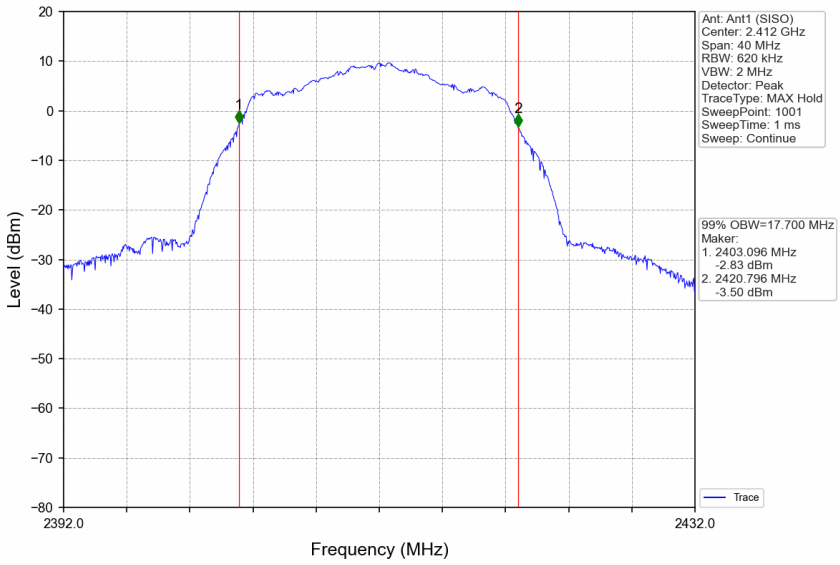

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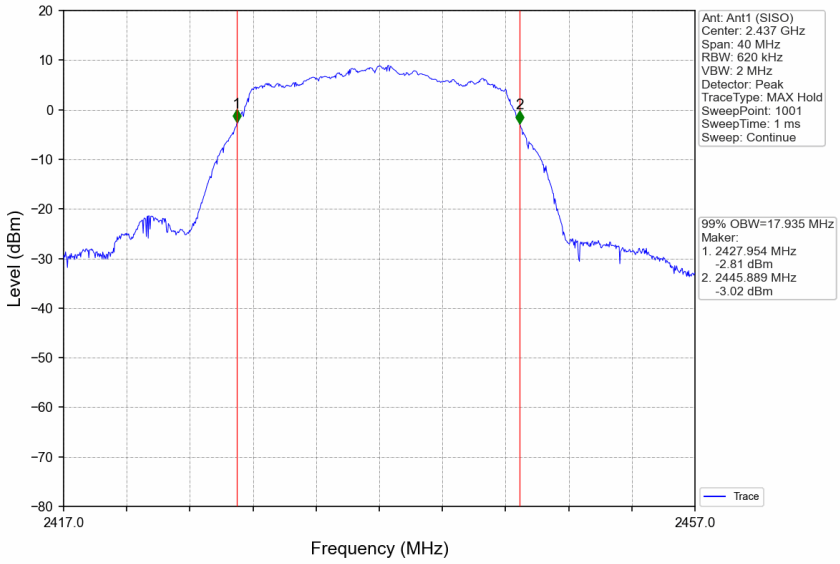
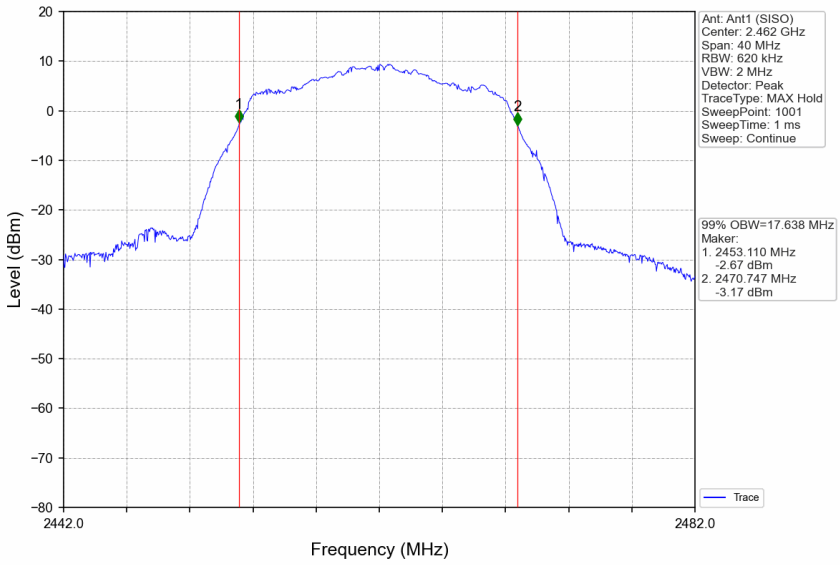
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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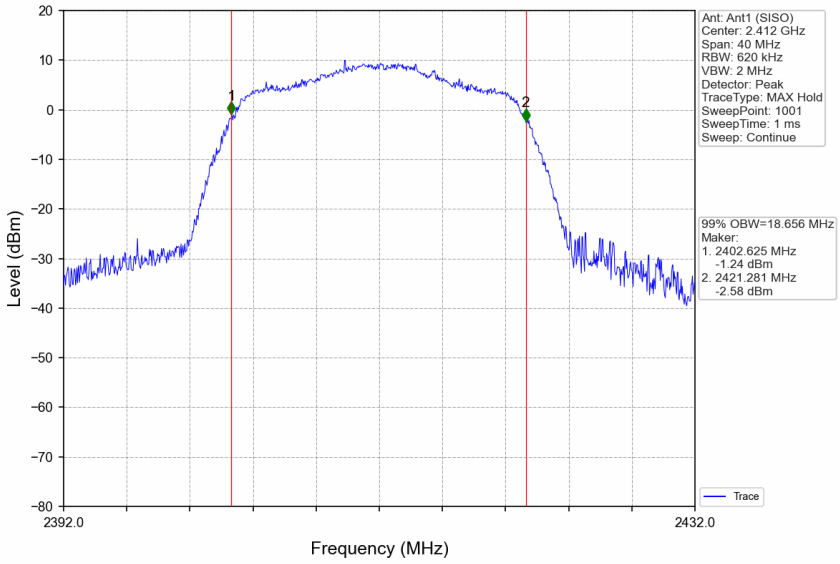
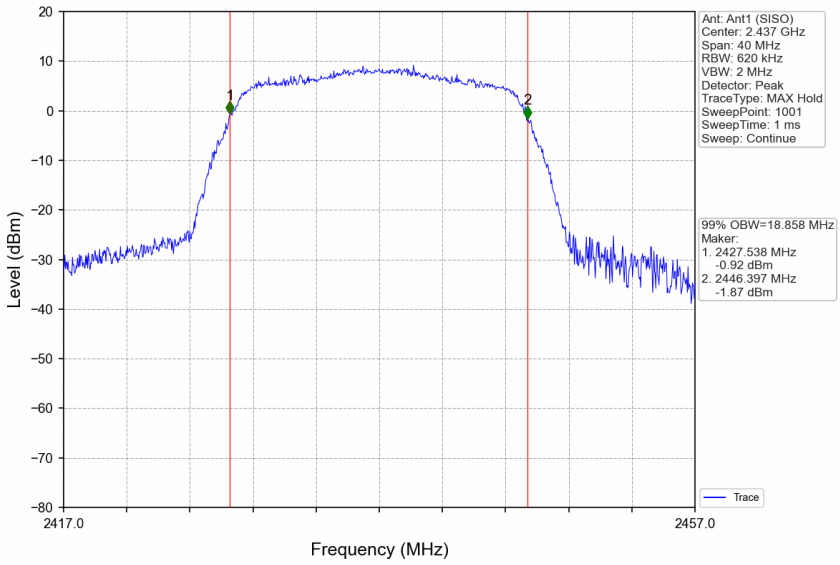
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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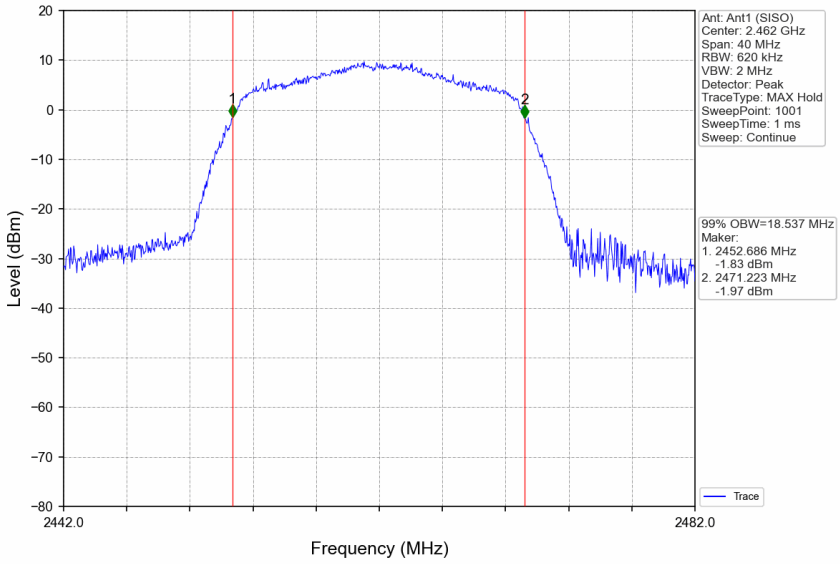
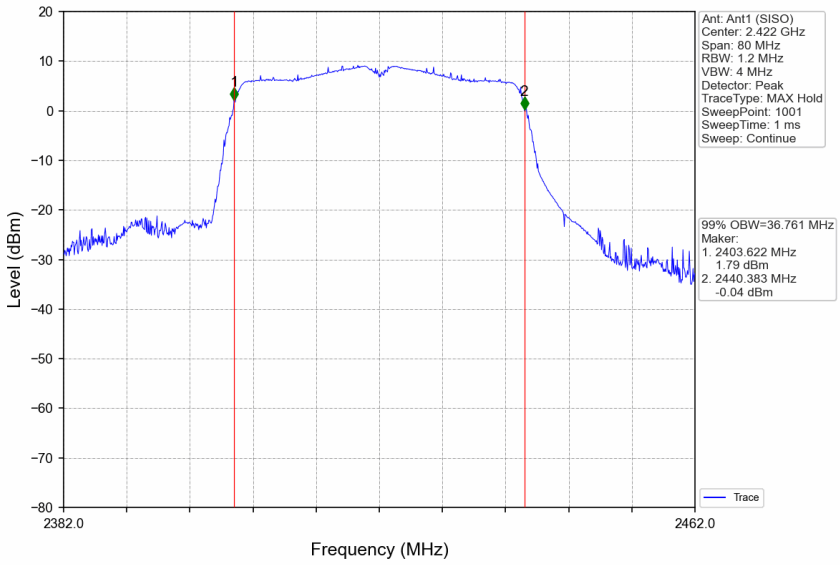
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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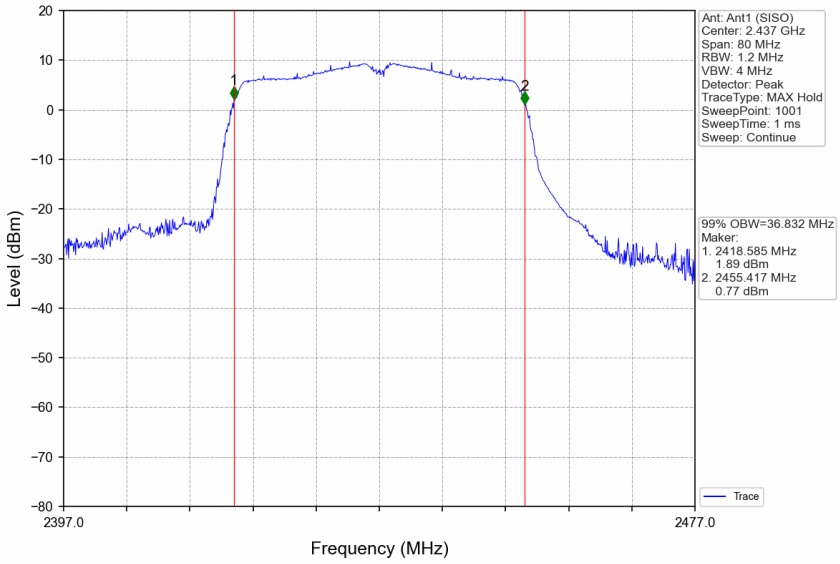
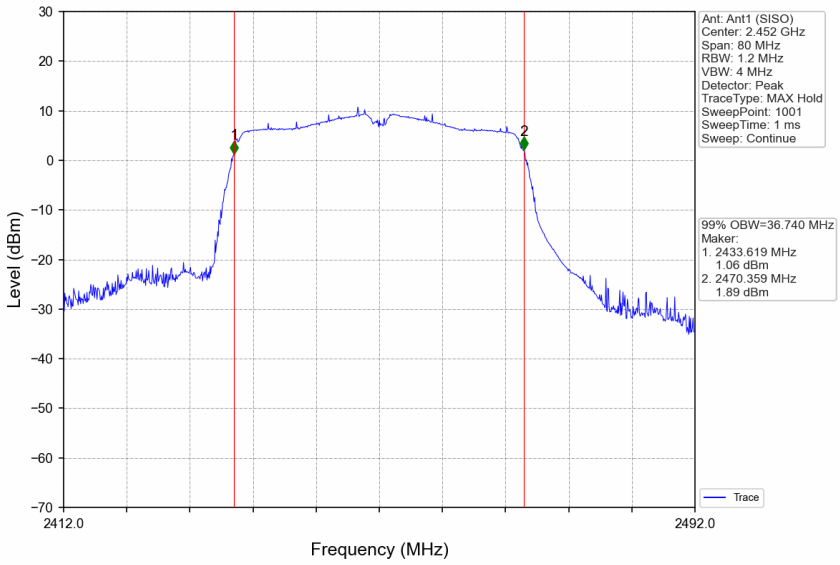
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_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	8.568	>=0.5	Pass
		2437	1	8.109	>=0.5	Pass
		2462	1	9.047	>=0.5	Pass
802.11g	SISO	2412	1	15.216	>=0.5	Pass
		2437	1	16.343	>=0.5	Pass
		2462	1	15.747	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	15.221	>=0.5	Pass
		2437	1	17.523	>=0.5	Pass
		2462	1	15.216	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.063	>=0.5	Pass
		2437	1	35.542	>=0.5	Pass
		2452	1	35.405	>=0.5	Pass

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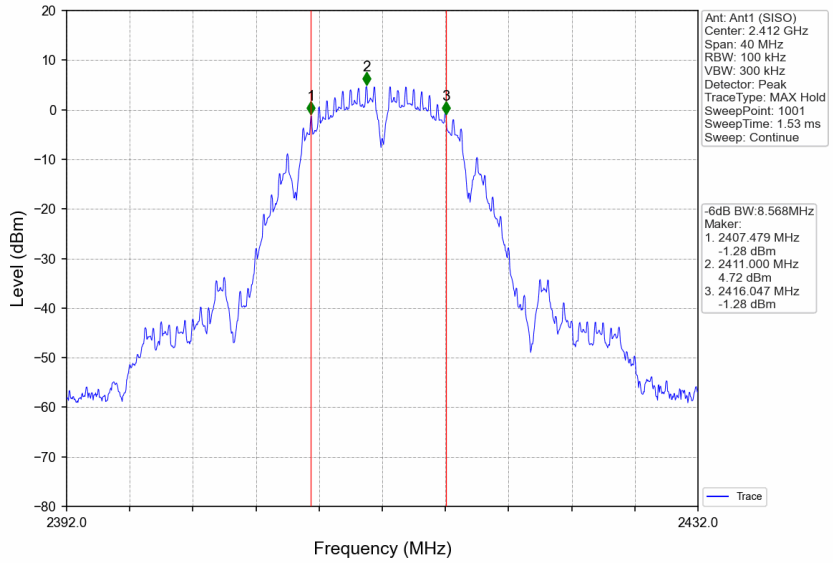
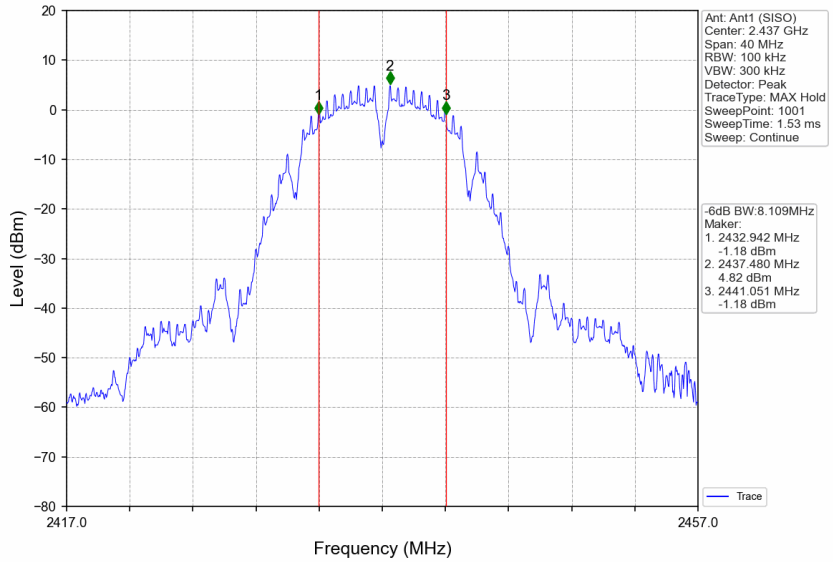
2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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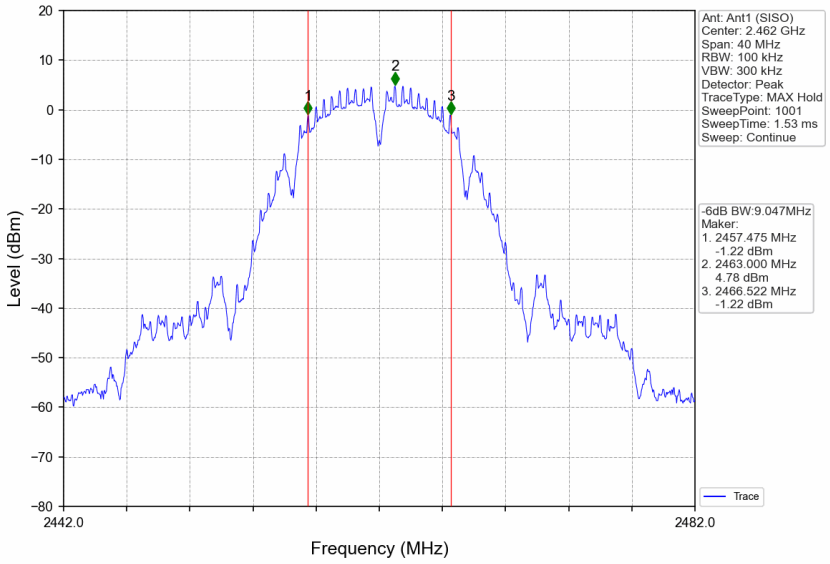
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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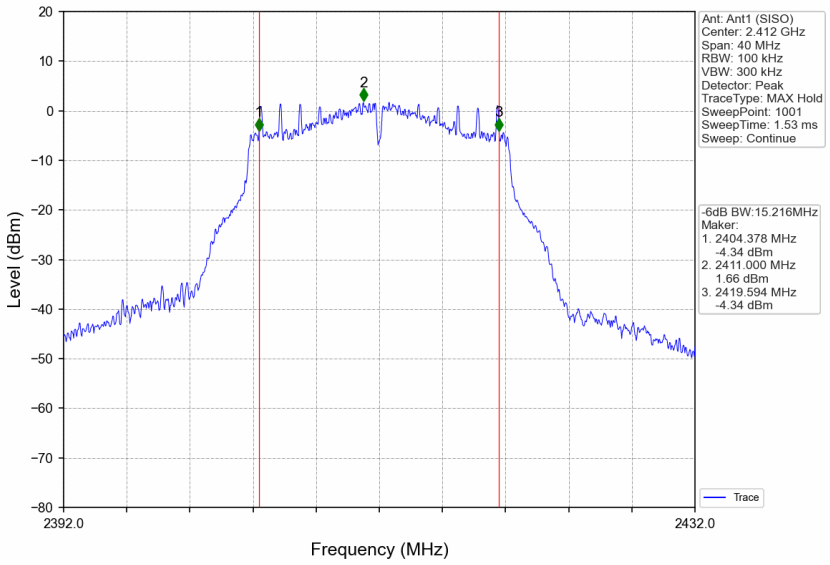

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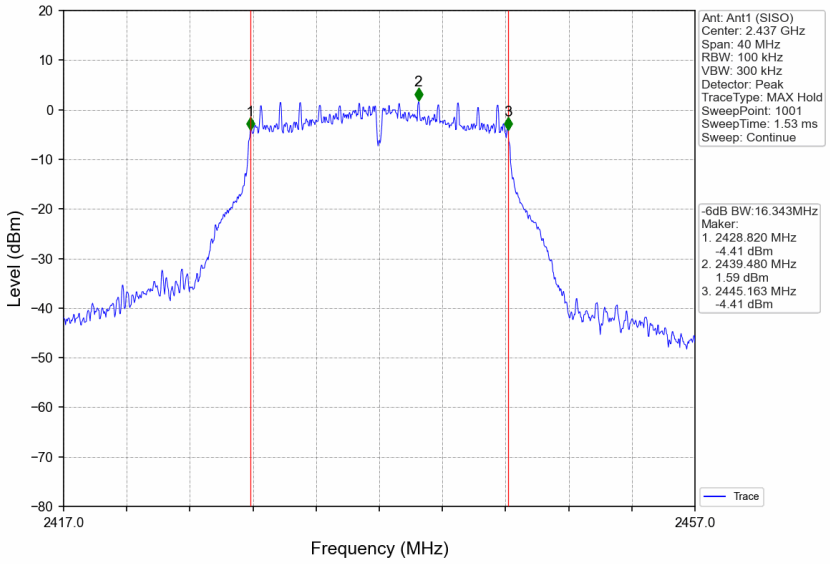
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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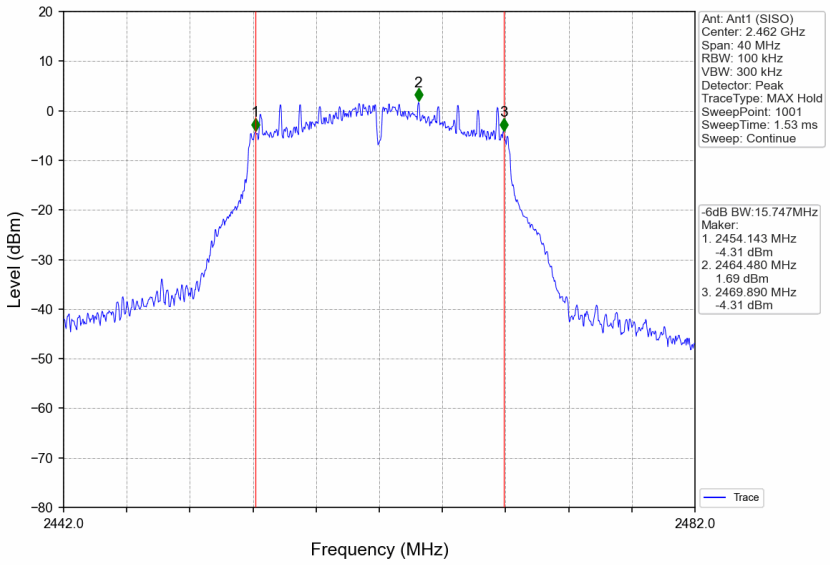

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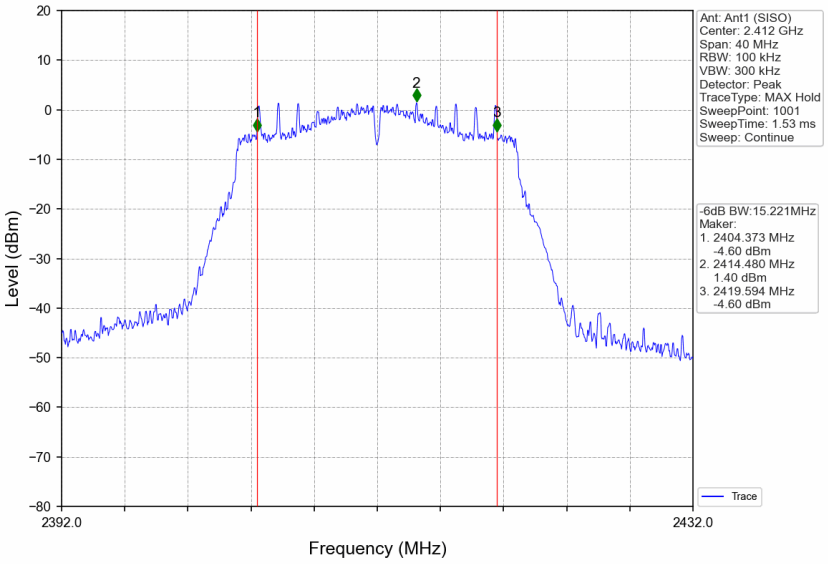
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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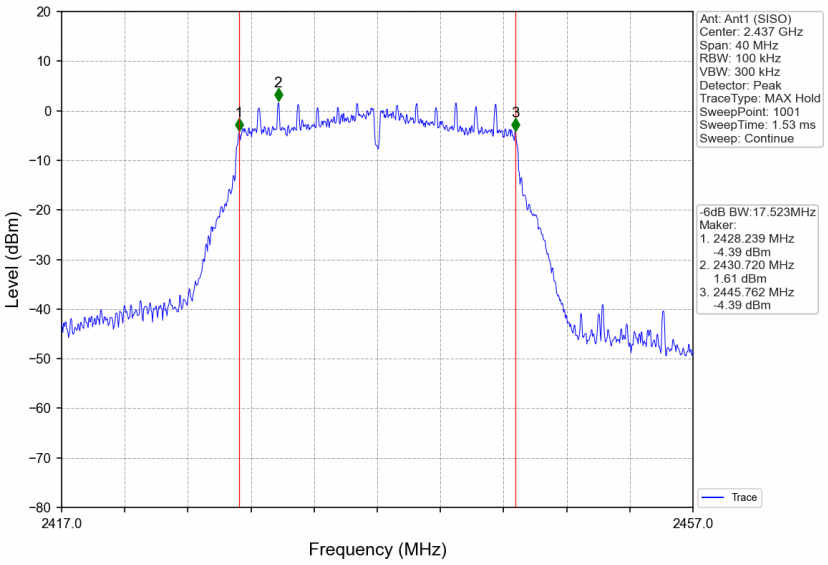

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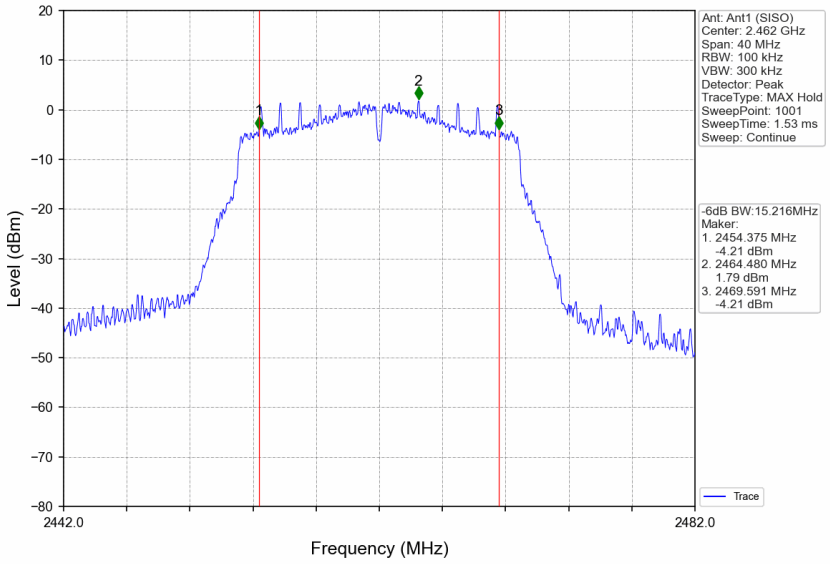
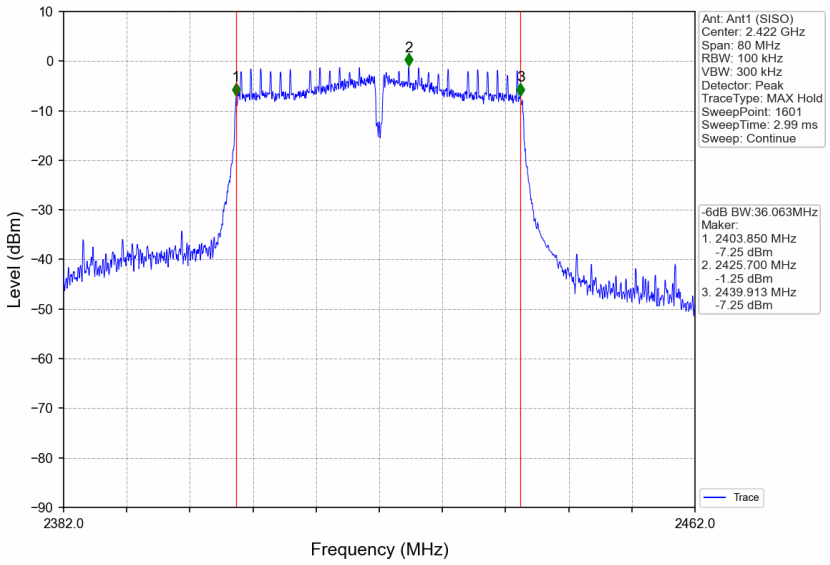
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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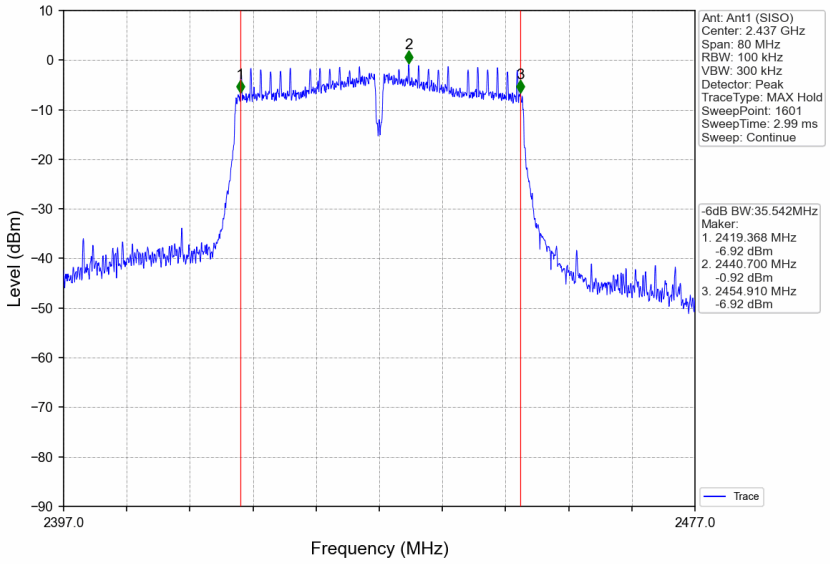
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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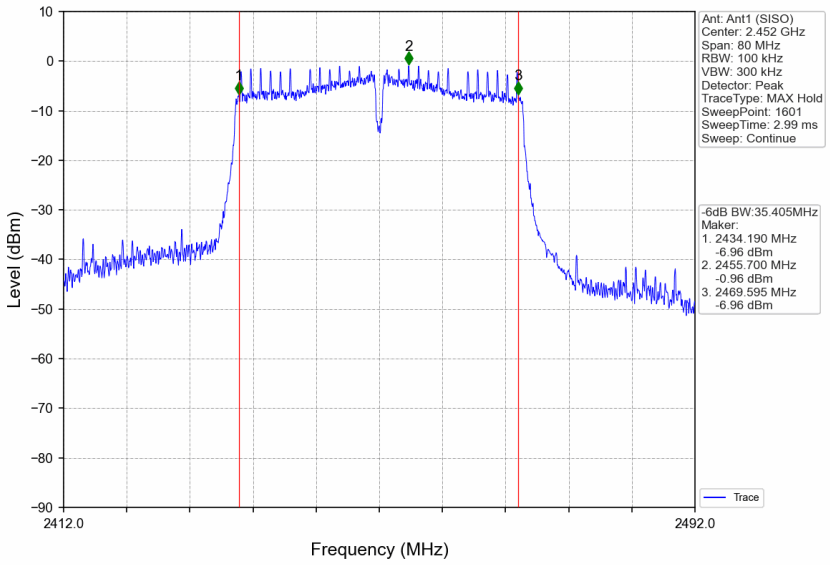

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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	12.87	<=30	Pass
		2437	13.10	<=30	Pass
		2462	13.25	<=30	Pass
802.11g	SISO	2412	13.26	<=30	Pass
		2437	13.19	<=30	Pass
		2462	13.31	<=30	Pass
802.11n (HT20)	SISO	2412	12.66	<=30	Pass
		2437	12.82	<=30	Pass
		2462	12.92	<=30	Pass
802.11n (HT40)	SISO	2422	12.67	<=30	Pass
		2437	12.95	<=30	Pass
		2452	13.01	<=30	Pass
Note1: Antenna Gain: Ant1: 5.66dBi;					

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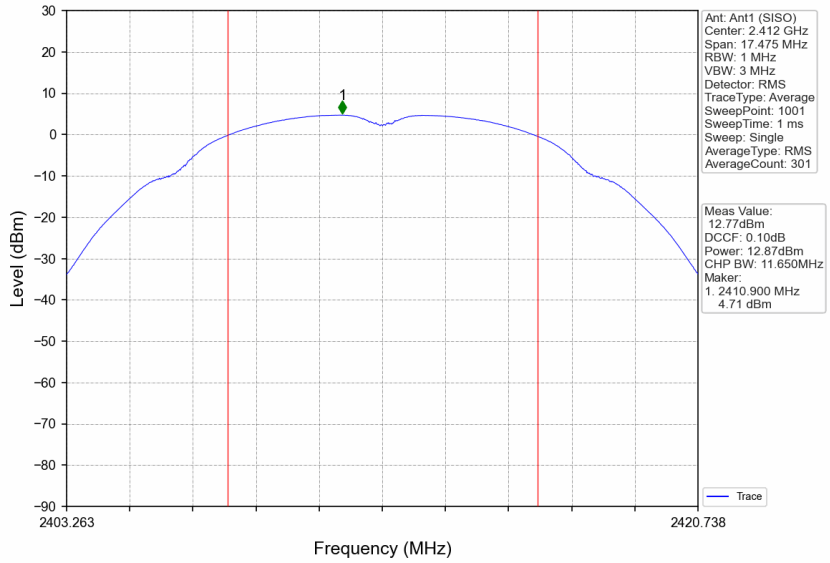
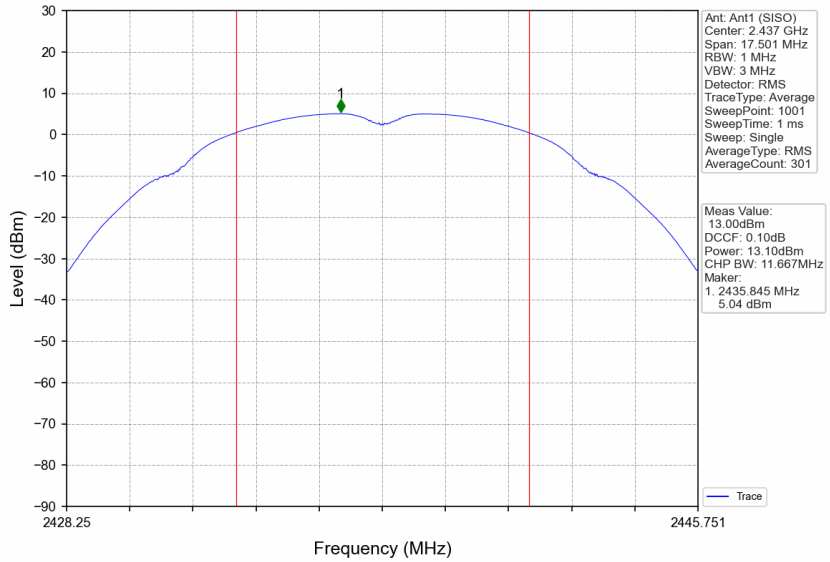
3.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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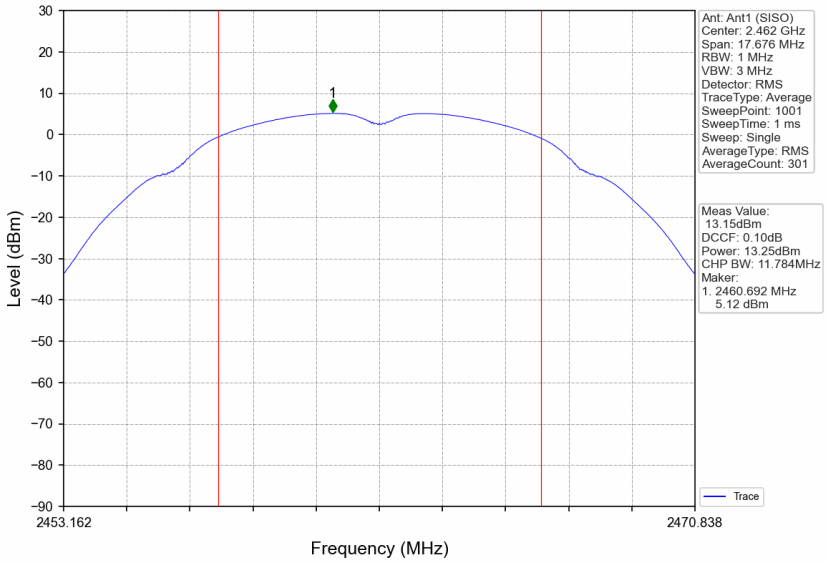
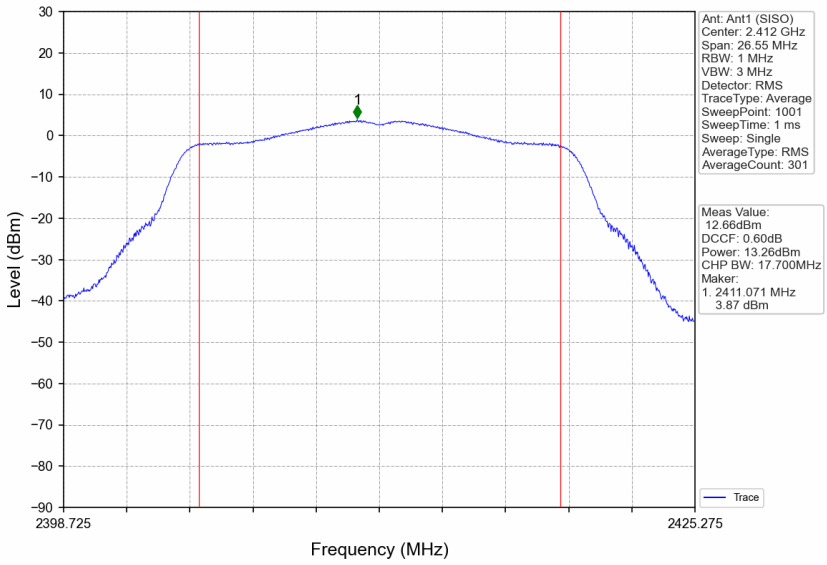
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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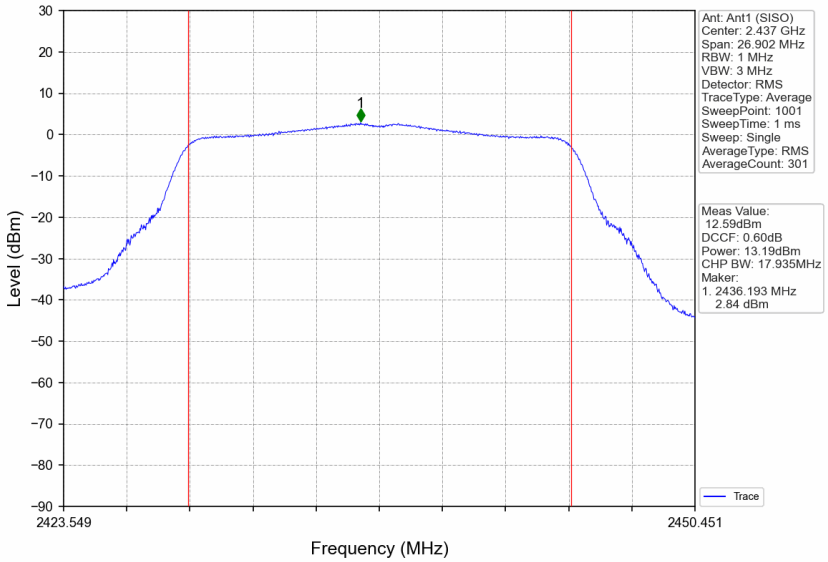
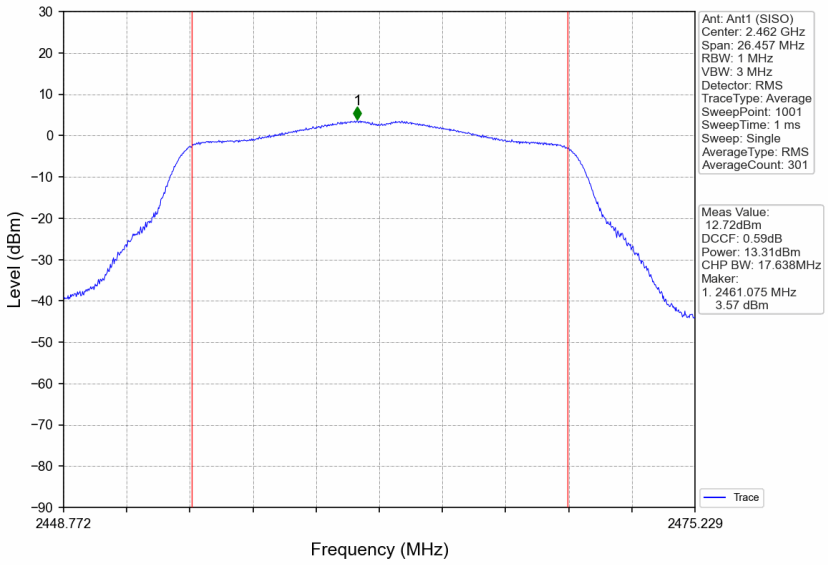
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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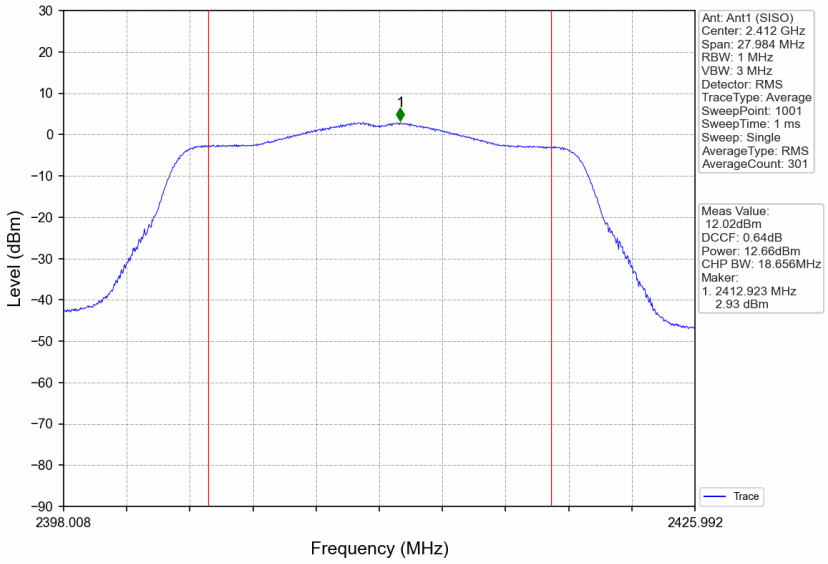
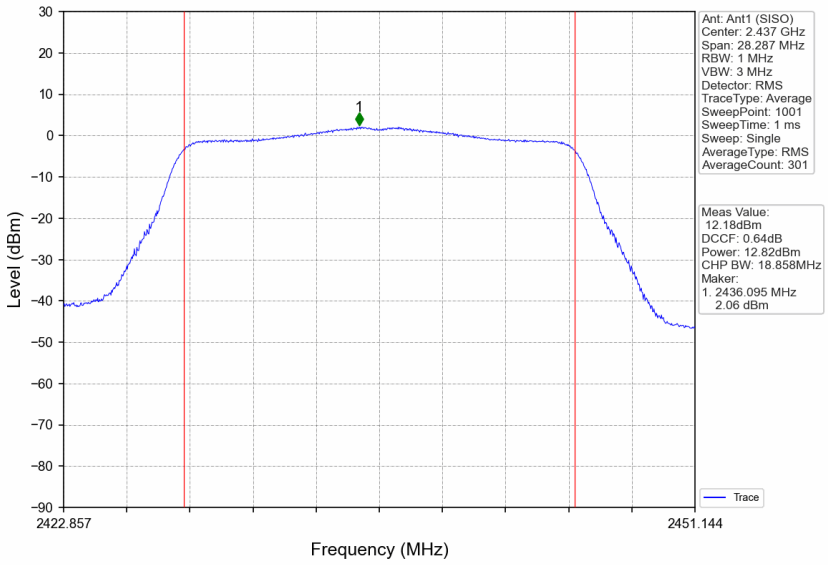
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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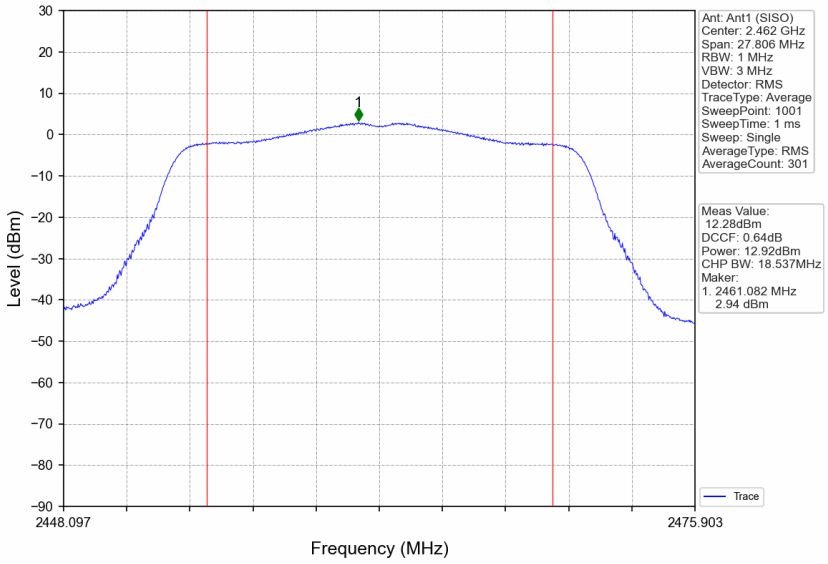
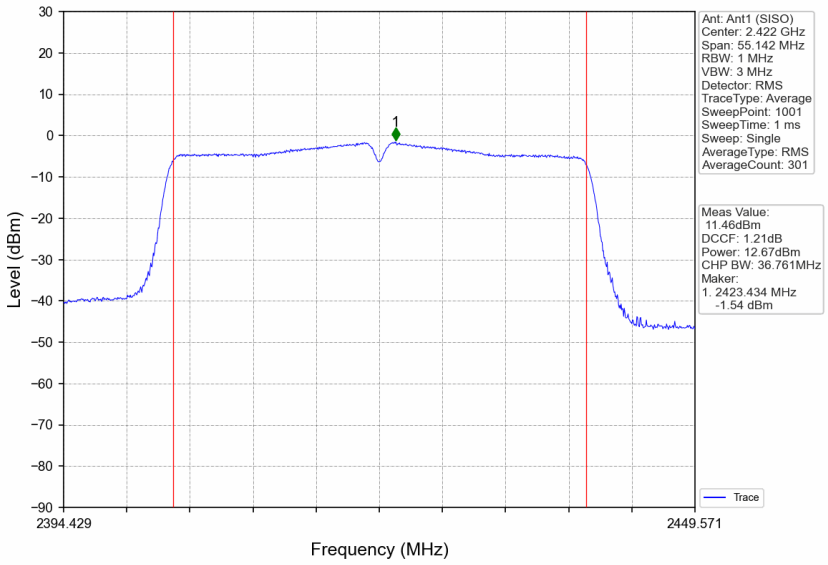
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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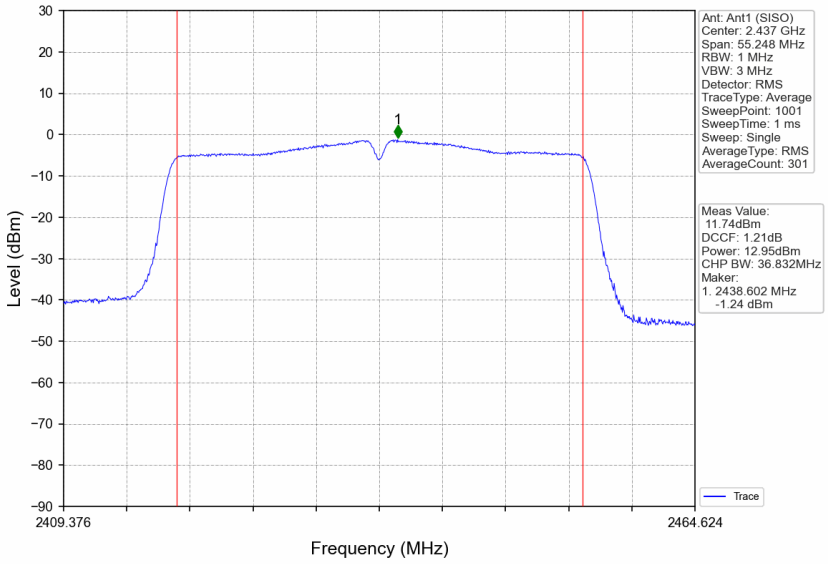
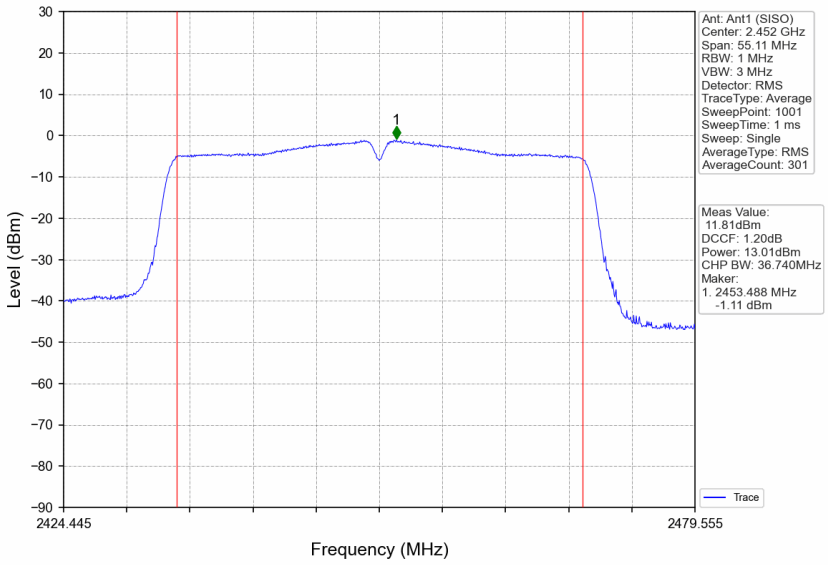
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	Limit	
802.11b	SISO	2412	-10.75	<=8	Pass
		2437	-10.12	<=8	Pass
		2462	-10.19	<=8	Pass
802.11g	SISO	2412	-10.49	<=8	Pass
		2437	-11.38	<=8	Pass
		2462	-11.03	<=8	Pass
802.11n (HT20)	SISO	2412	-10.48	<=8	Pass
		2437	-11.17	<=8	Pass
		2462	-10.41	<=8	Pass
802.11n (HT40)	SISO	2422	-14.65	<=8	Pass
		2437	-14.58	<=8	Pass
		2452	-14.55	<=8	Pass
Note1: Antenna Gain: Ant1: 5.66dBi;					

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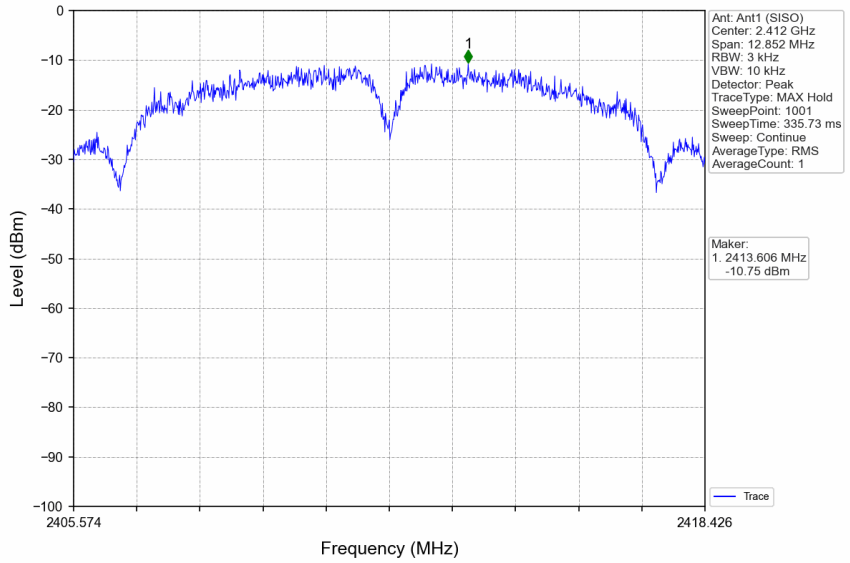
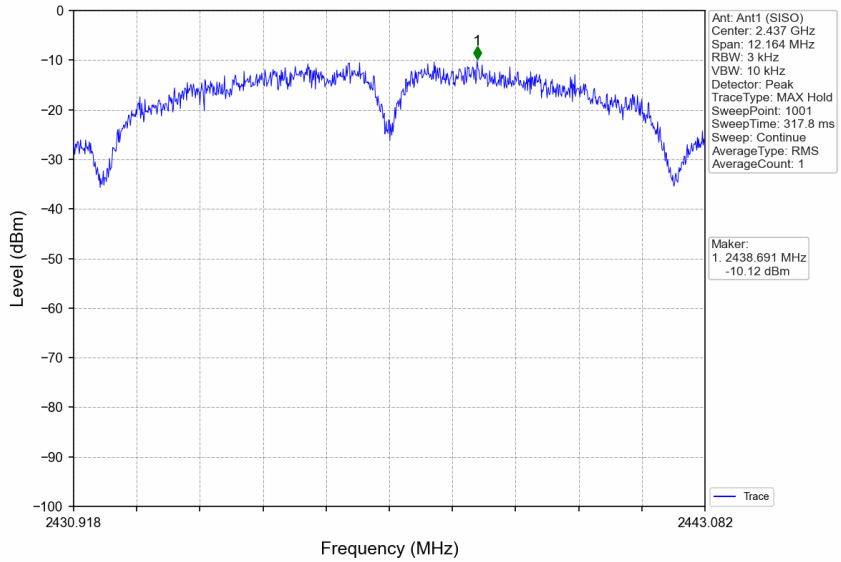
4.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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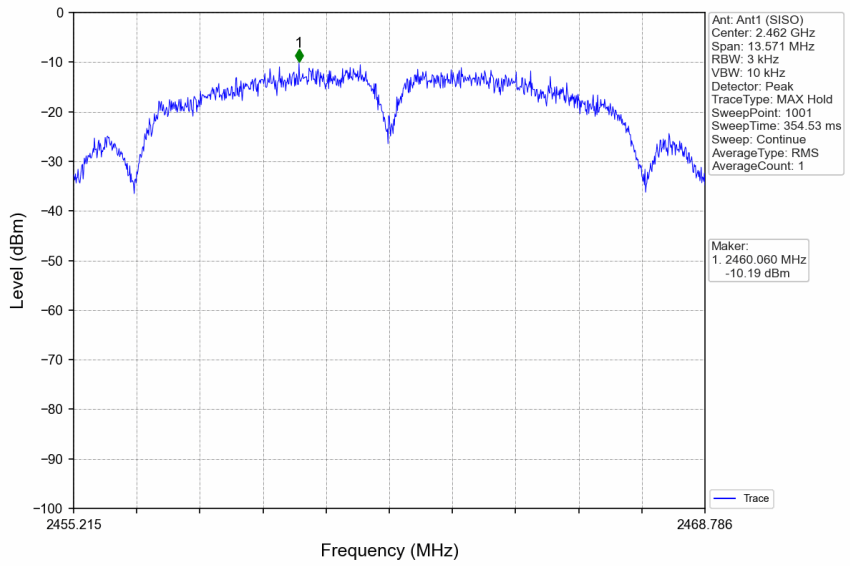
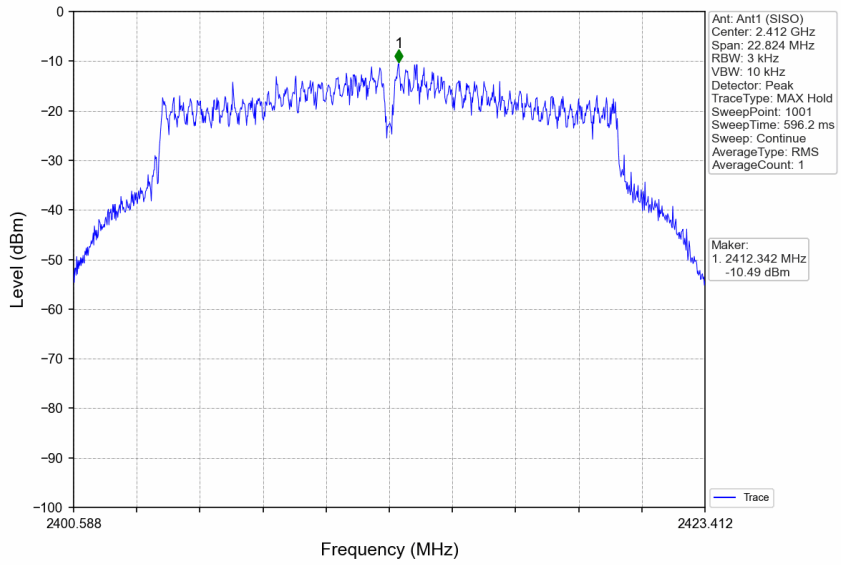
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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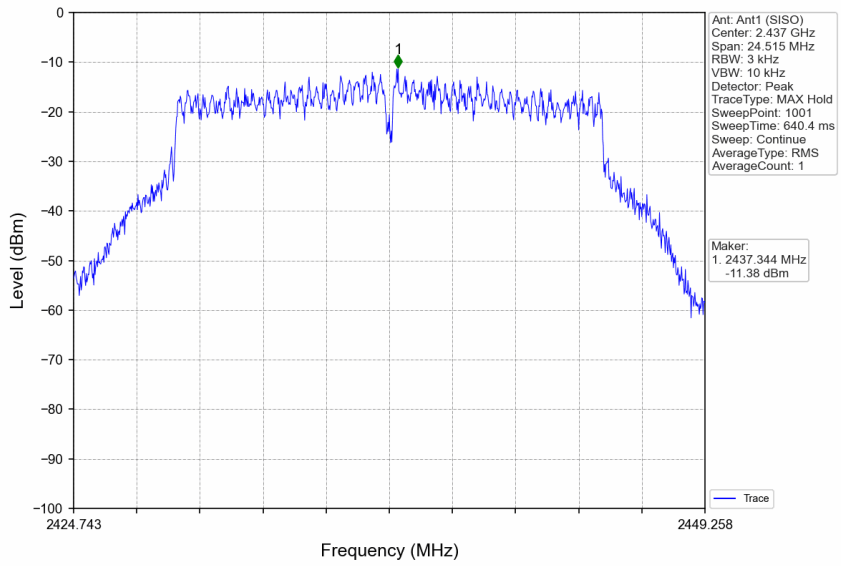
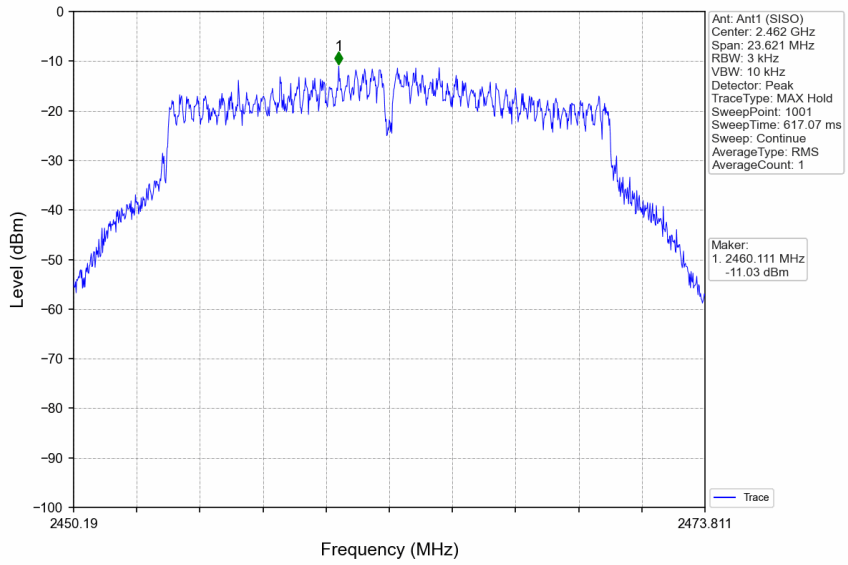
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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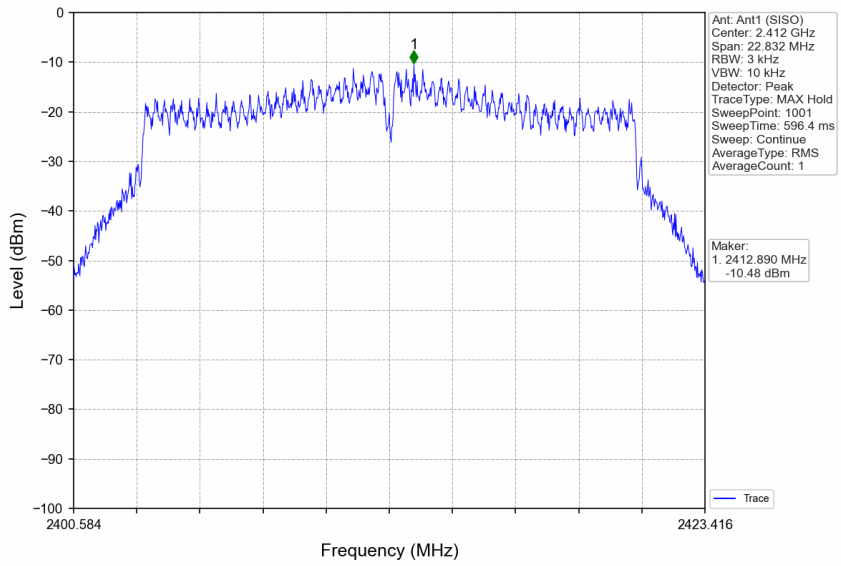
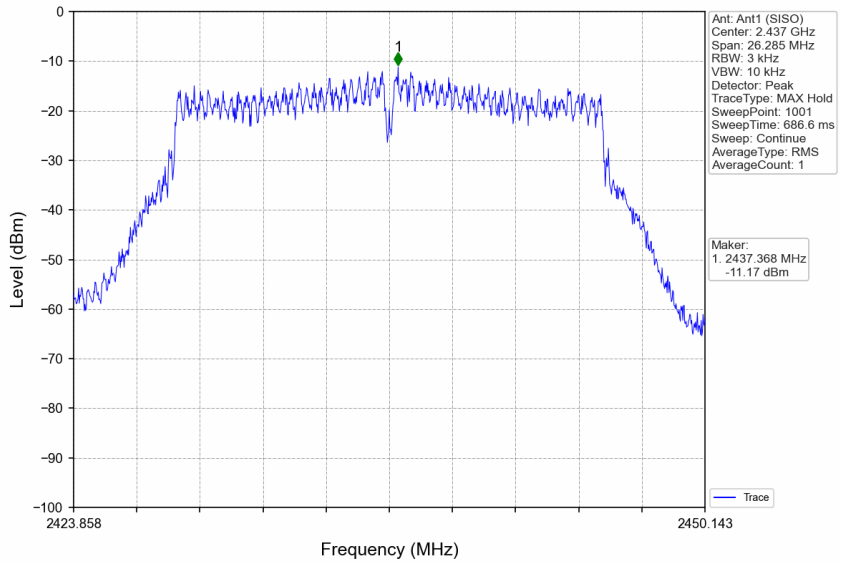
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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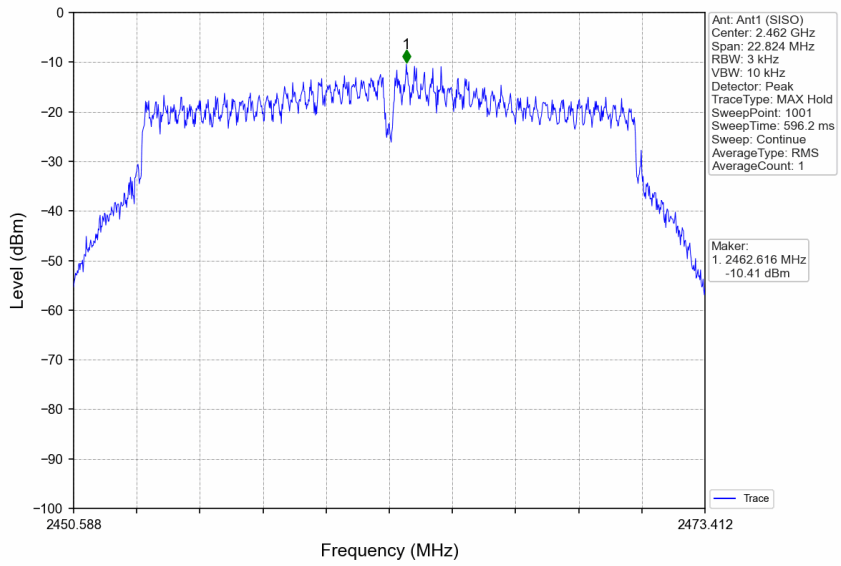
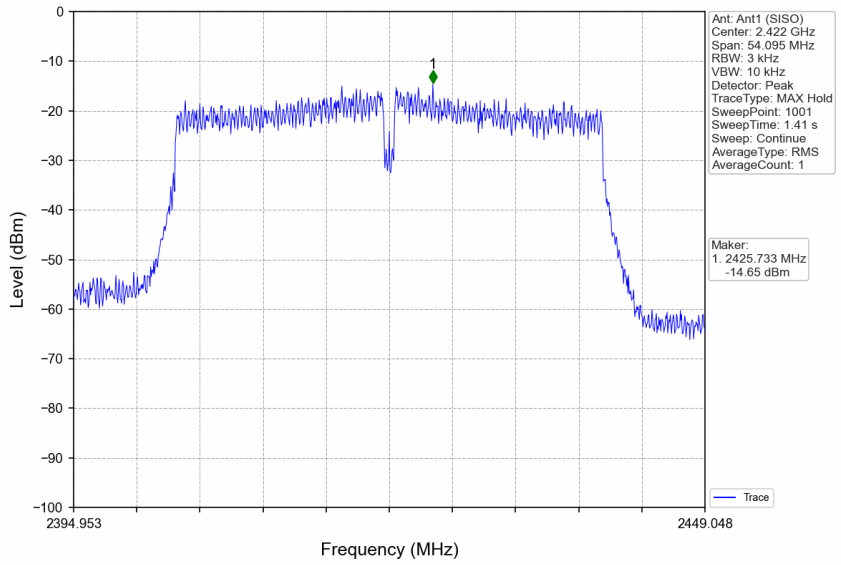
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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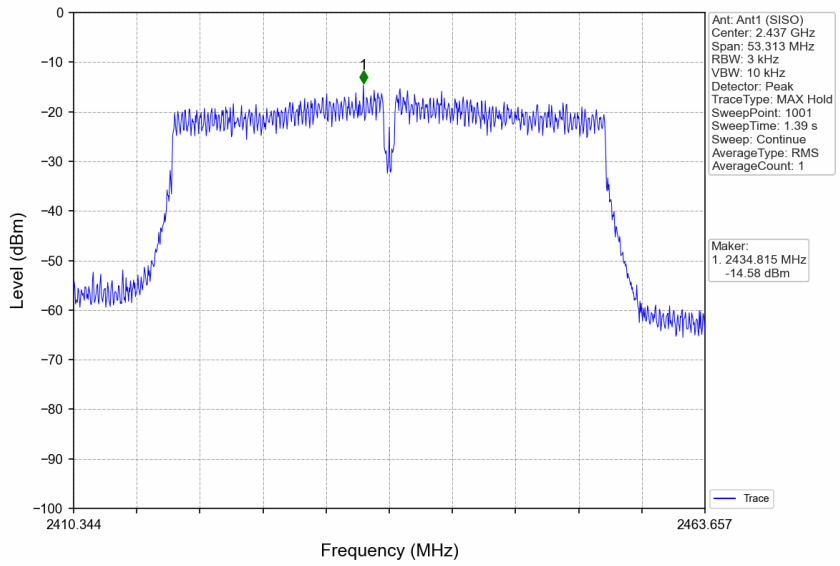
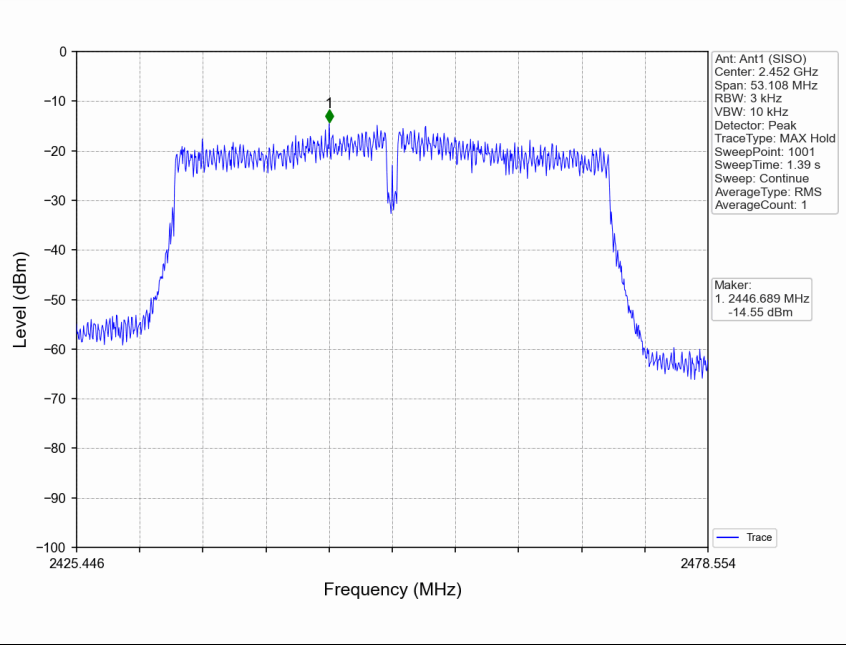
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_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	4.50
		2437	1	4.71
		2462	1	4.70
802.11g	SISO	2412	1	1.68
		2437	1	1.62
		2462	1	1.63
802.11n (HT20)	SISO	2412	1	1.31
		2437	1	1.63
		2462	1	1.74
802.11n (HT40)	SISO	2422	1	-1.18
		2437	1	-1.22
		2452	1	-1.02
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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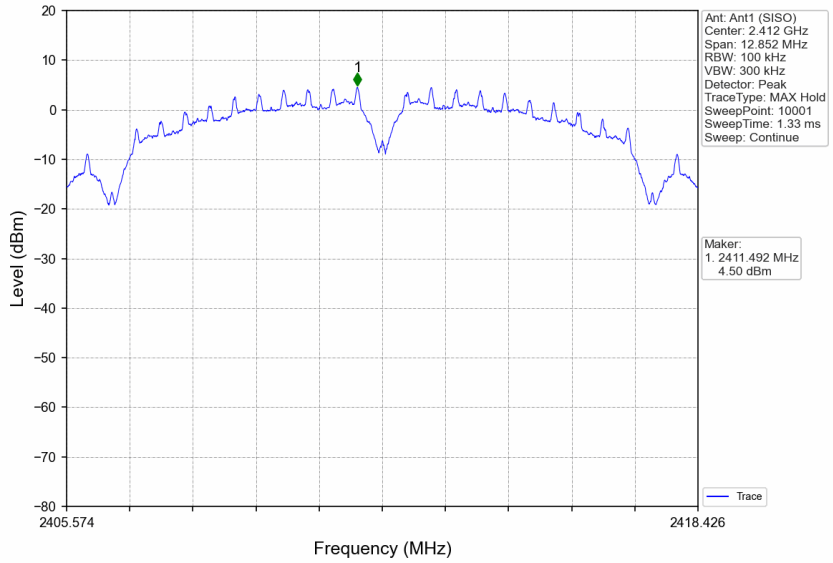
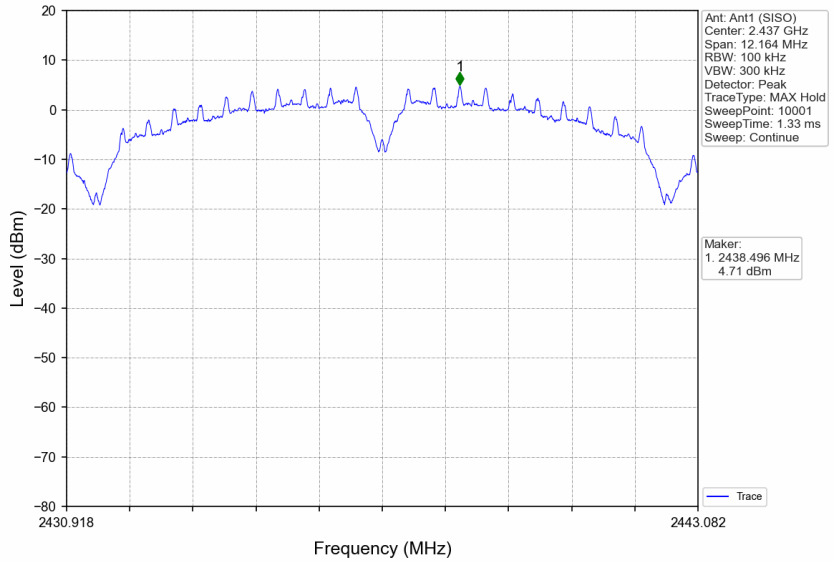
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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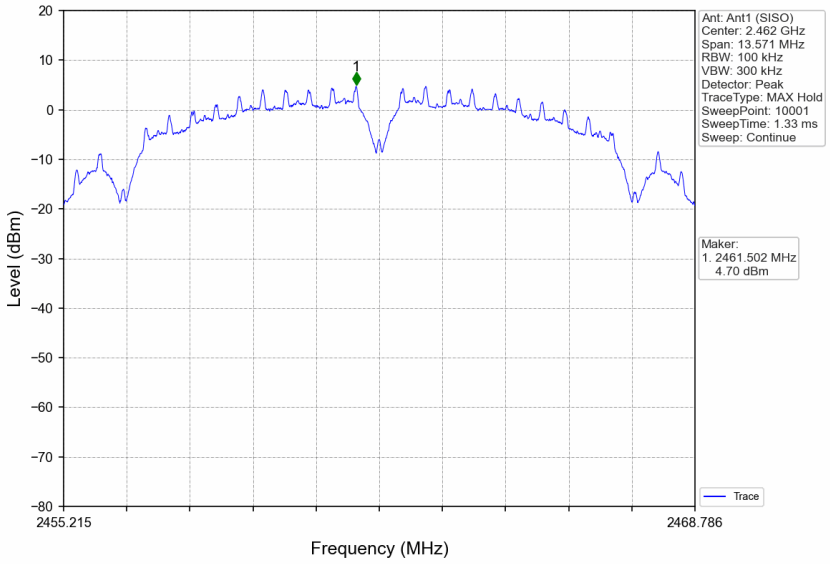
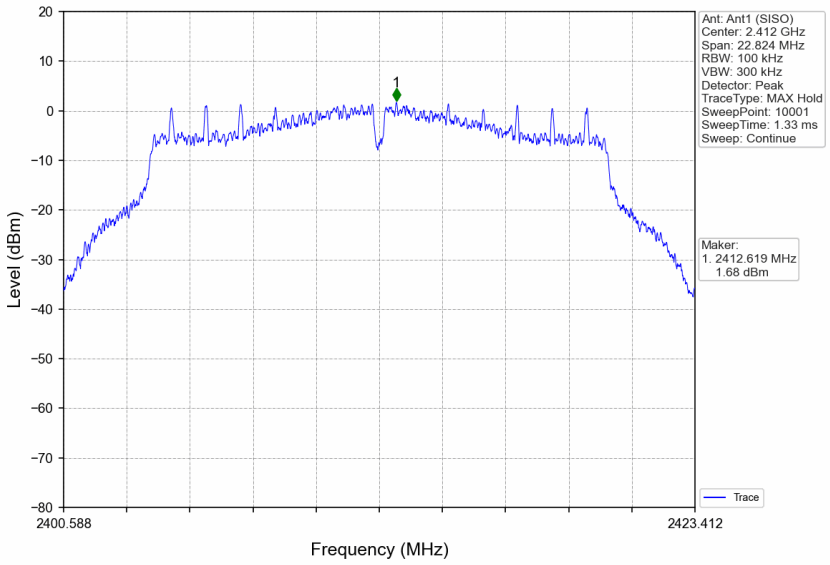
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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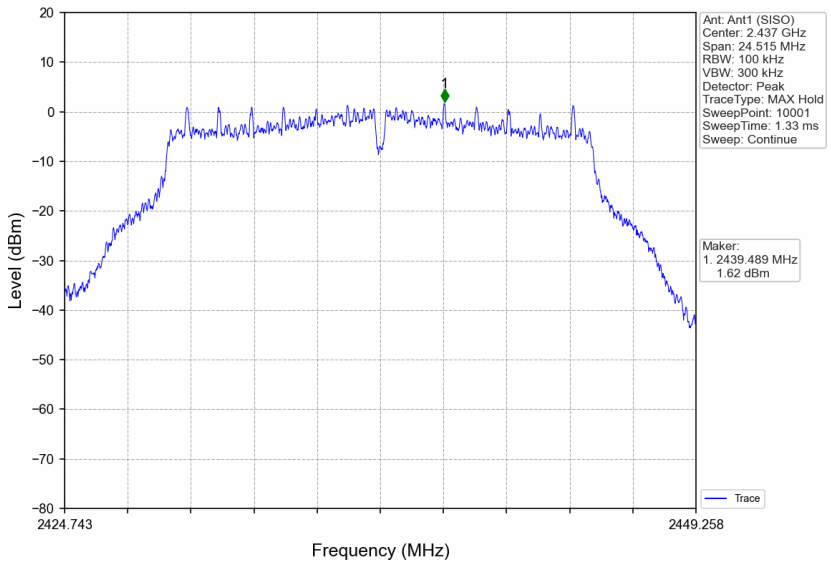
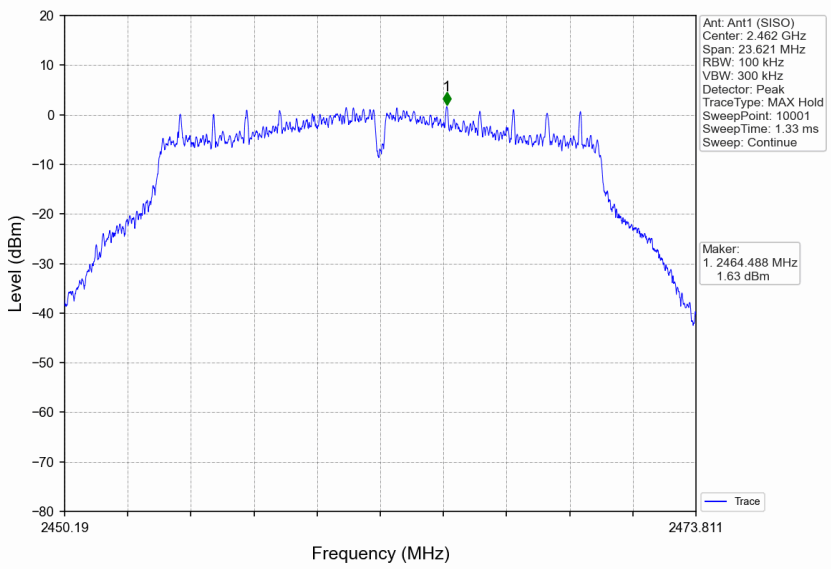
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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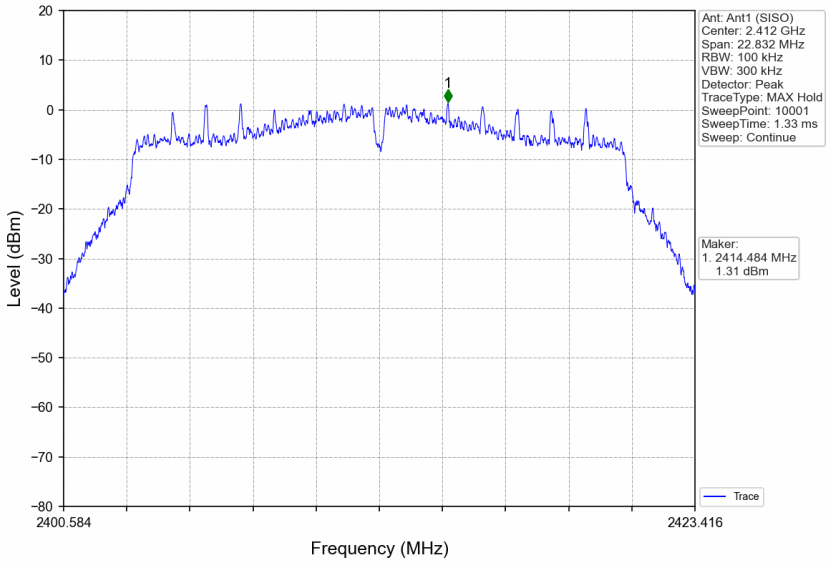
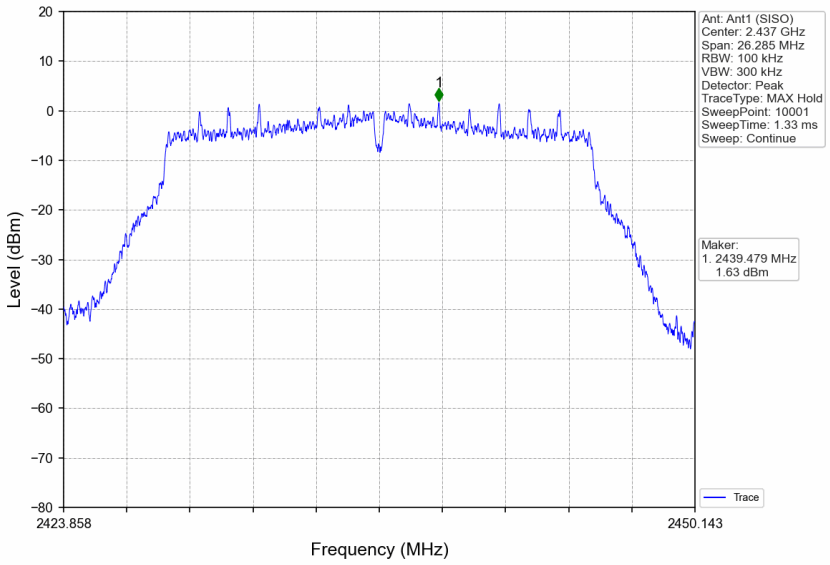
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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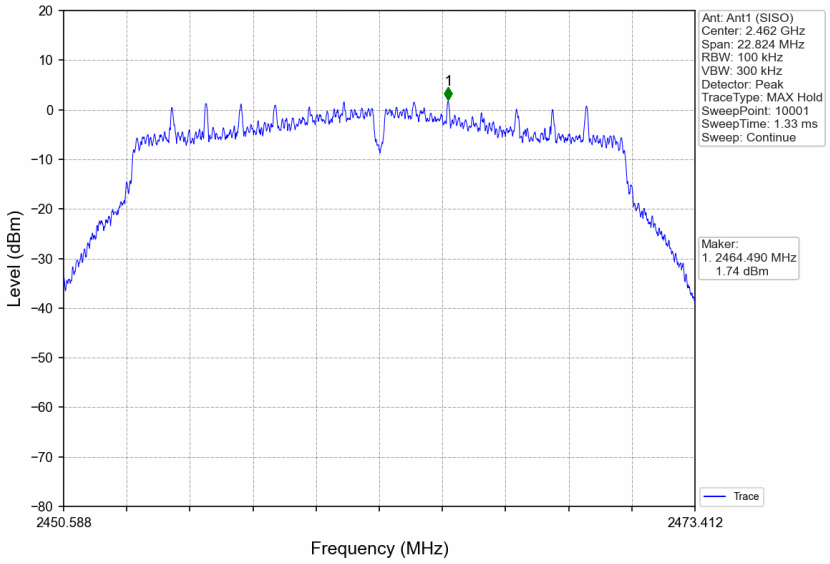
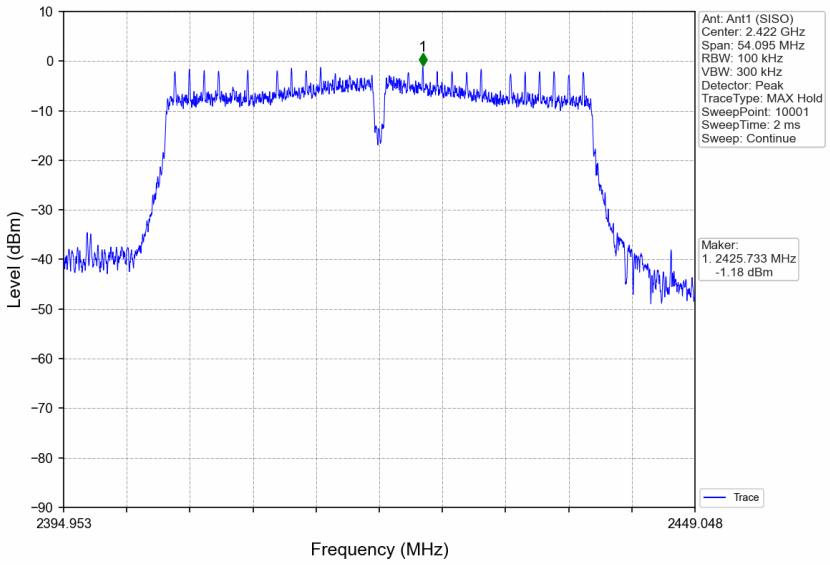
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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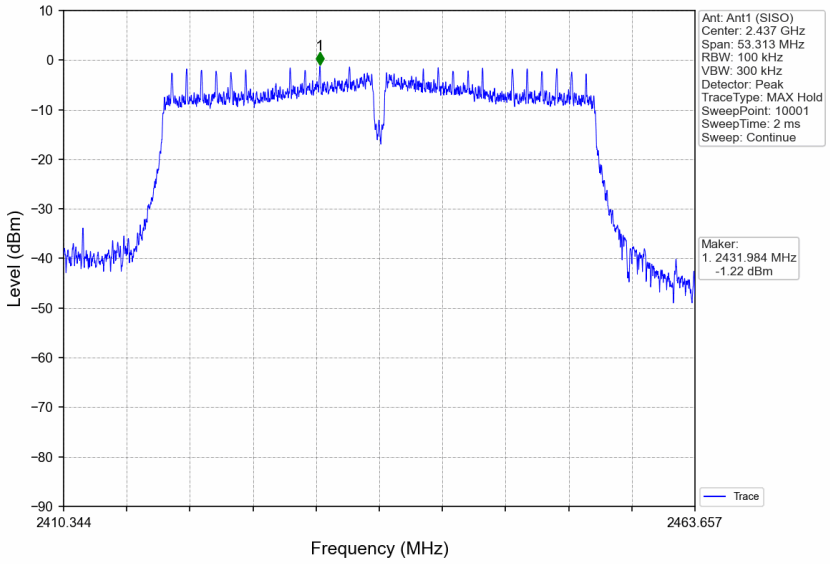
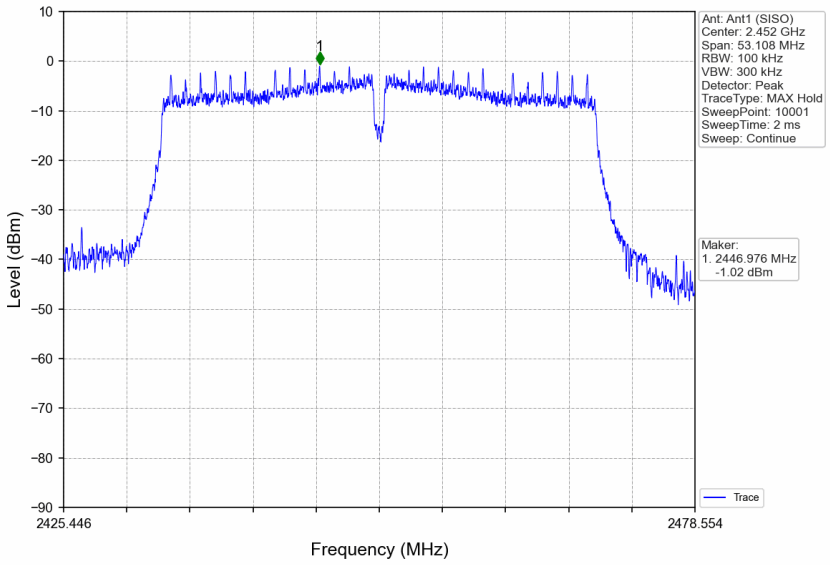
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_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	4.71	-25.29	Pass
		2437	1	4.71	-25.29	Pass
		2462	1	4.71	-25.29	Pass
802.11g	SISO	2412	1	1.68	-28.32	Pass
		2437	1	1.68	-28.32	Pass
		2462	1	1.68	-28.32	Pass
802.11n (HT20)	SISO	2412	1	1.74	-28.26	Pass
		2437	1	1.74	-28.26	Pass
		2462	1	1.74	-28.26	Pass
802.11n (HT40)	SISO	2422	1	-1.02	-31.02	Pass
		2437	1	-1.02	-31.02	Pass
		2452	1	-1.02	-31.02	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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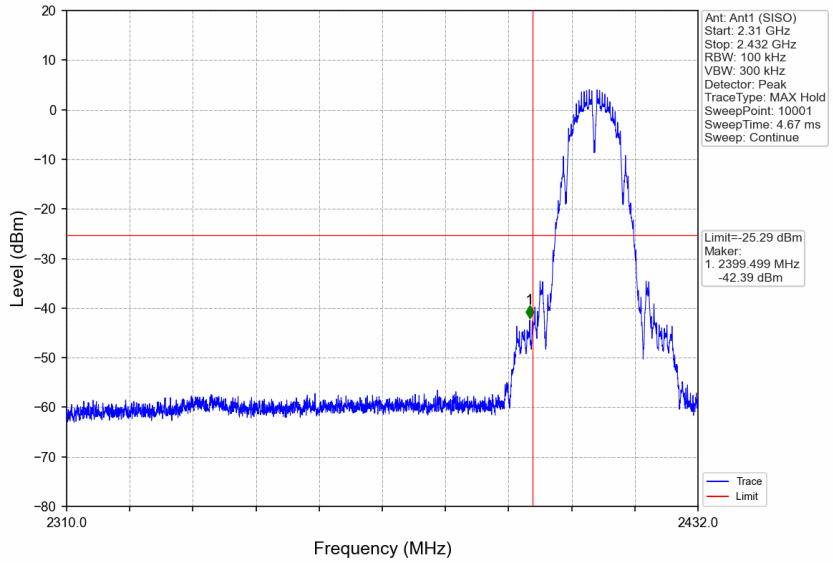
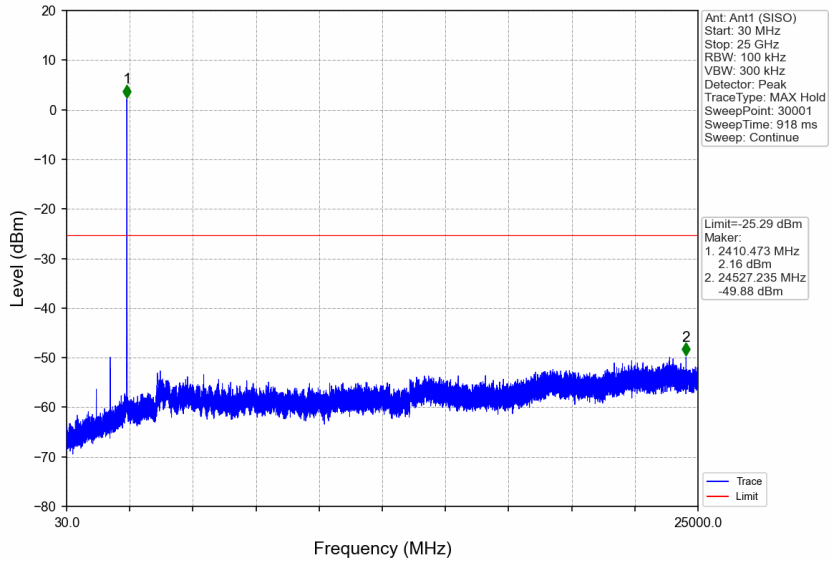
5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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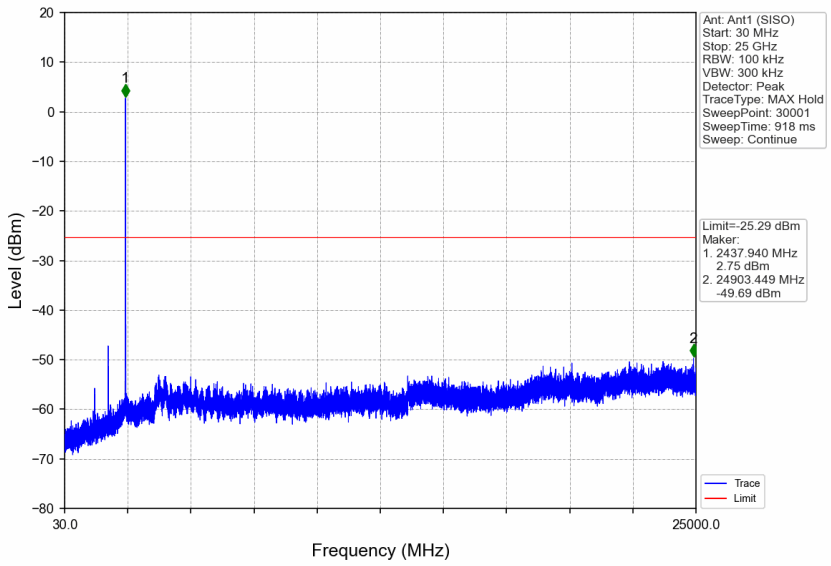
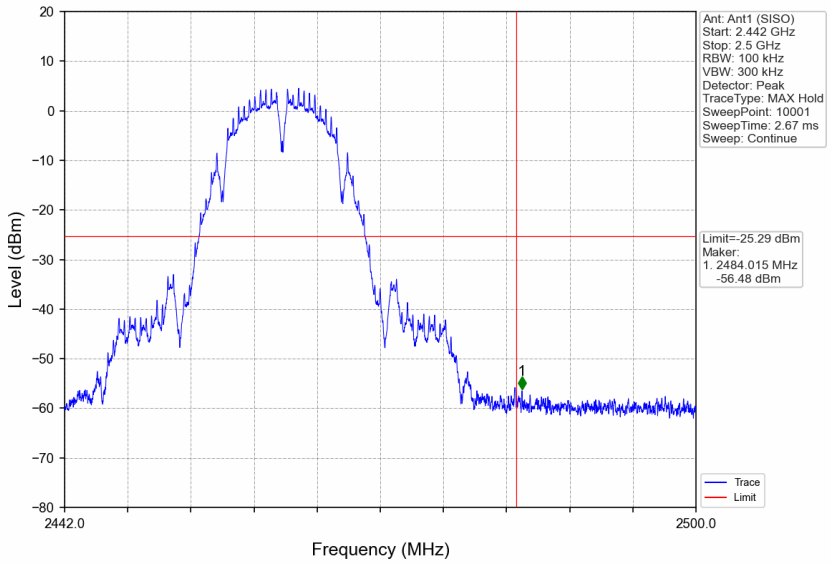
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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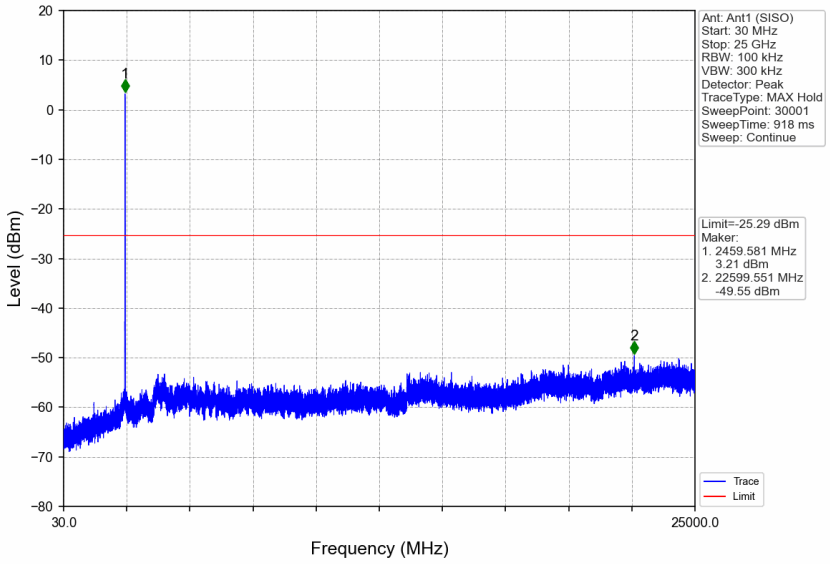
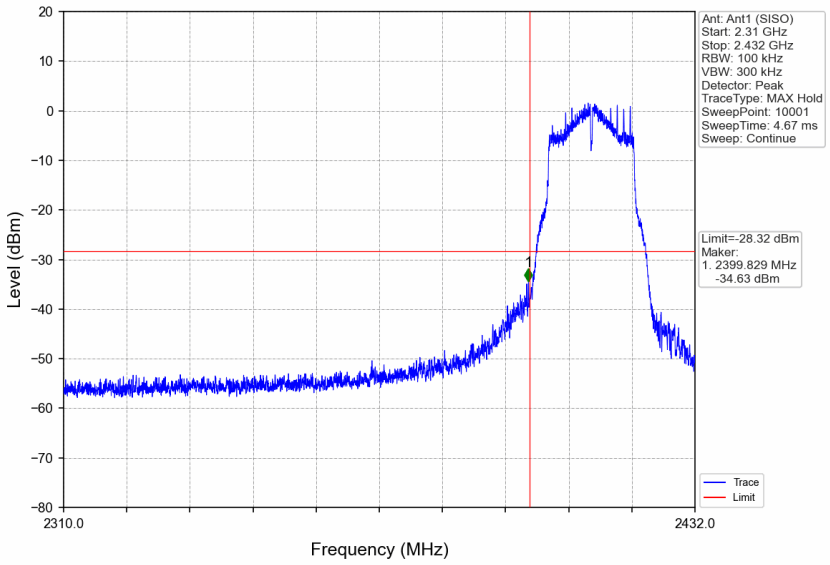
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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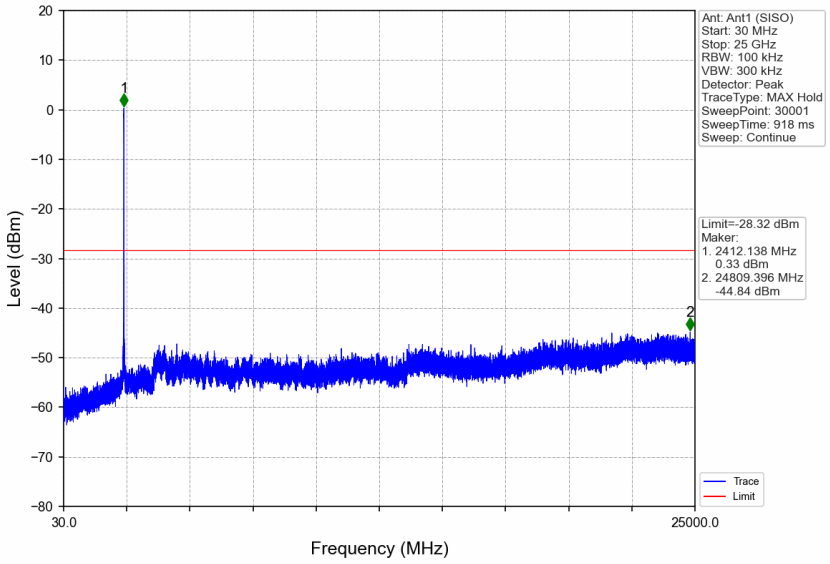
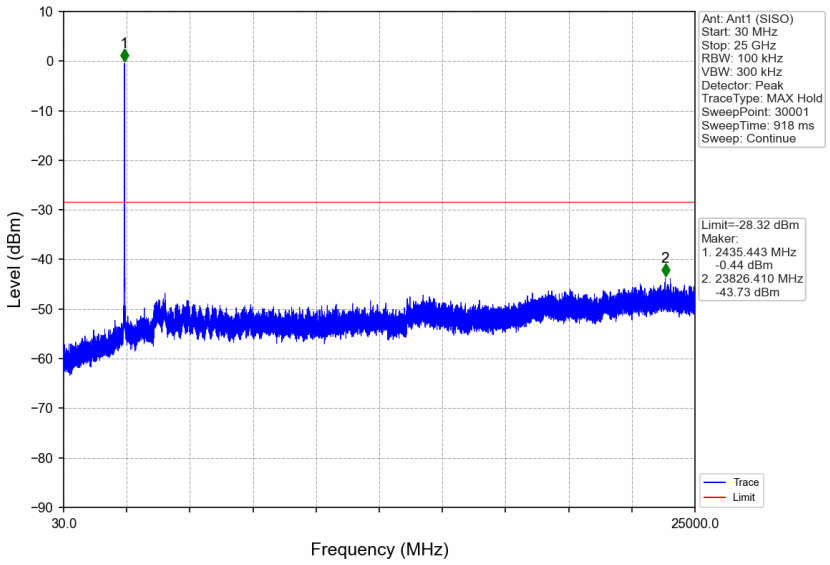
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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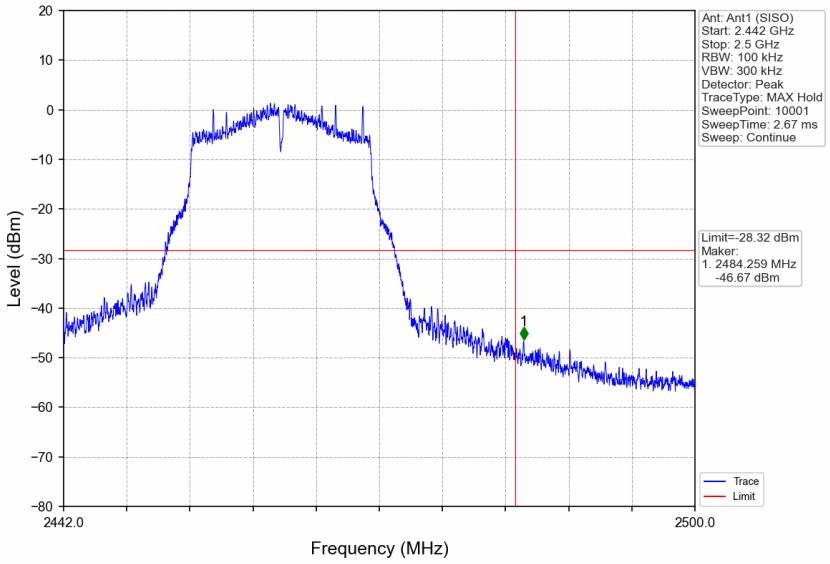
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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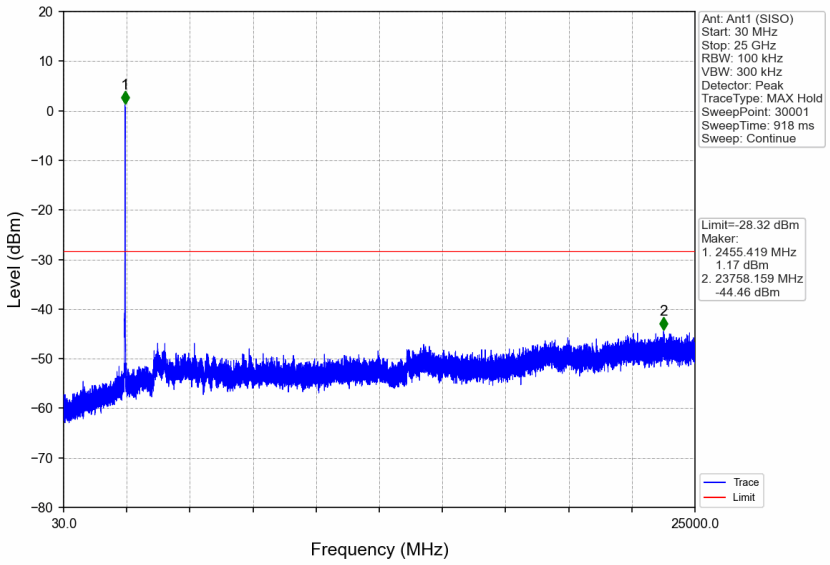

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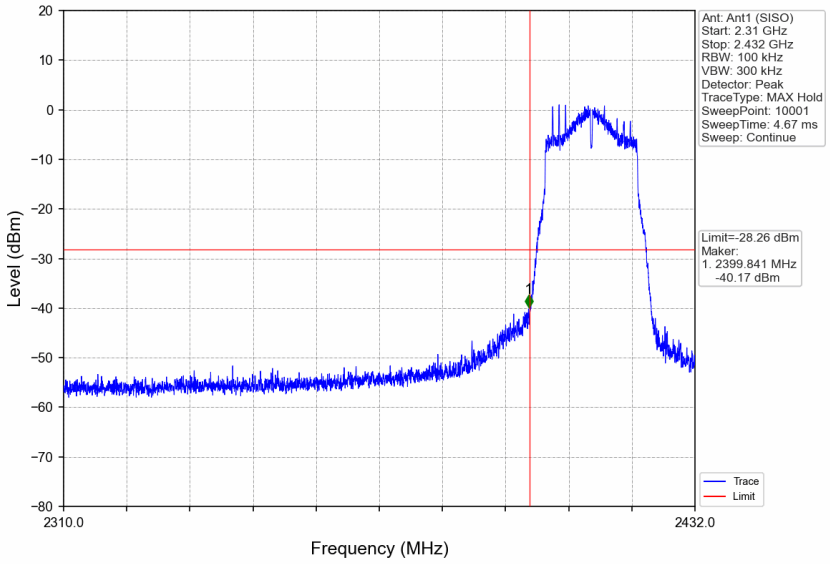
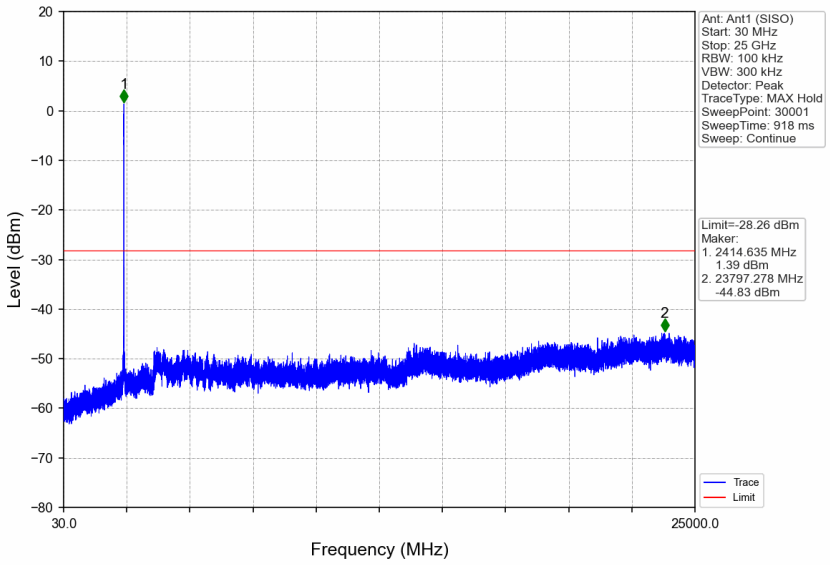
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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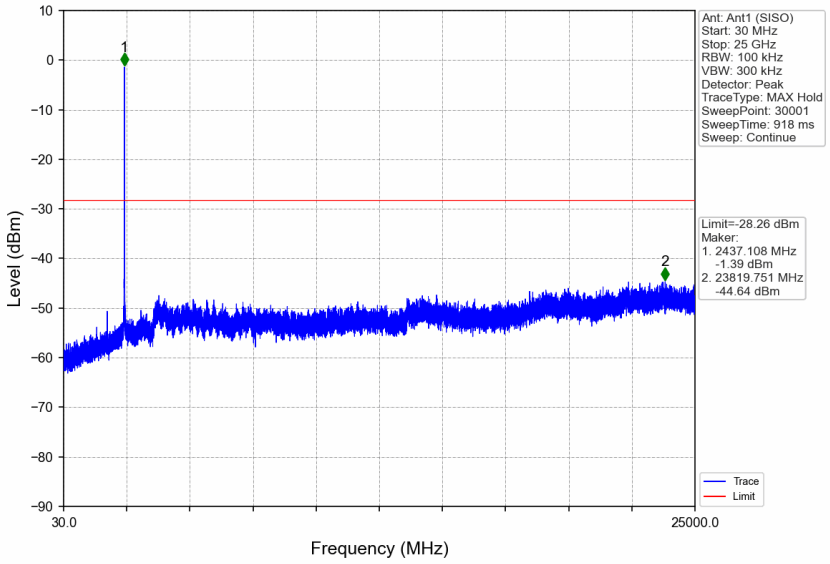
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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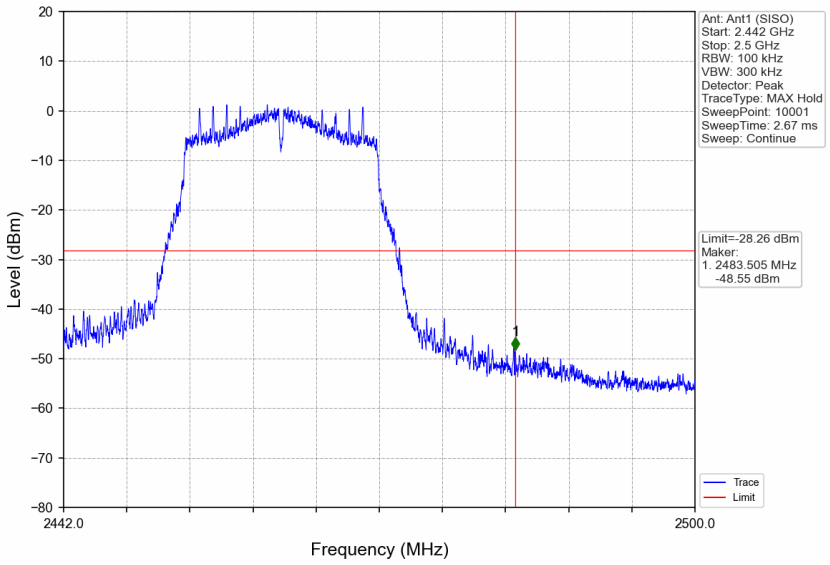

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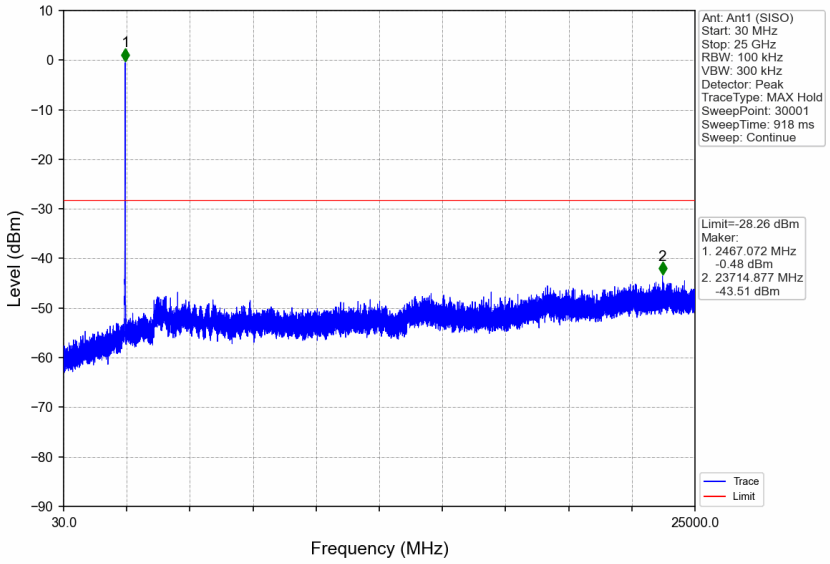
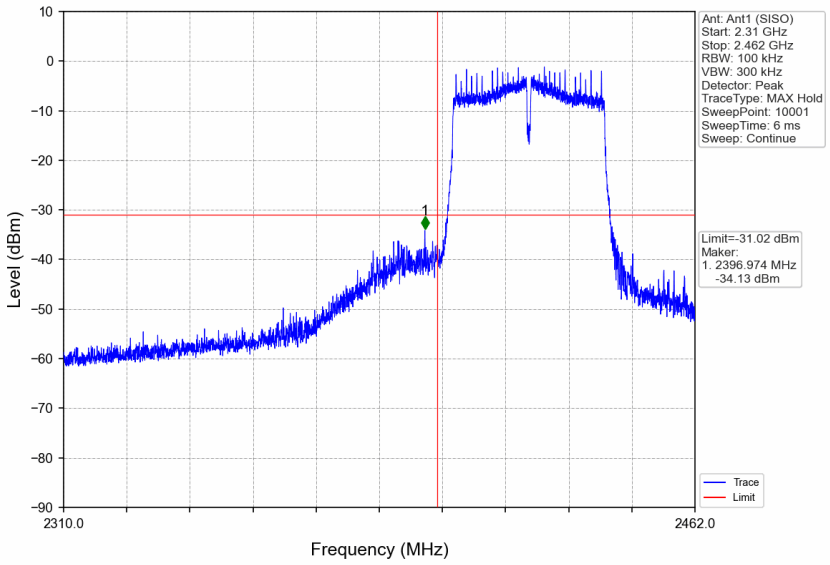
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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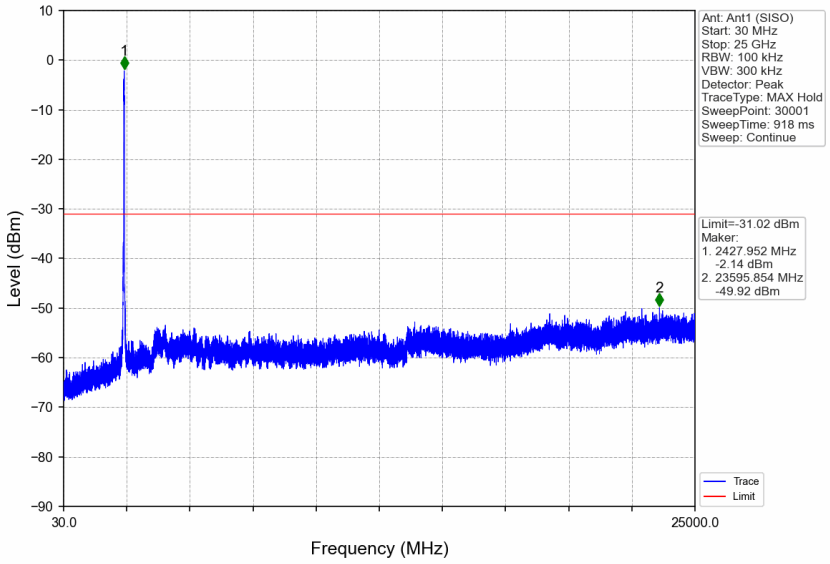
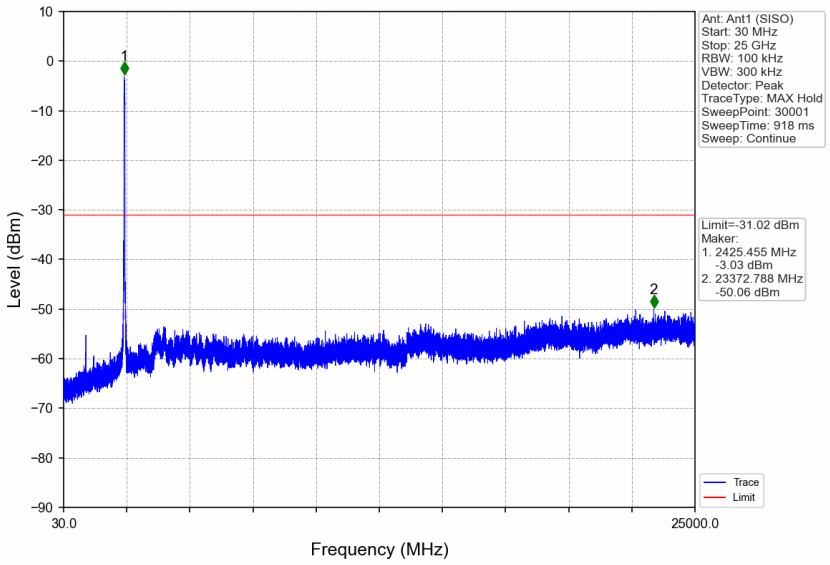
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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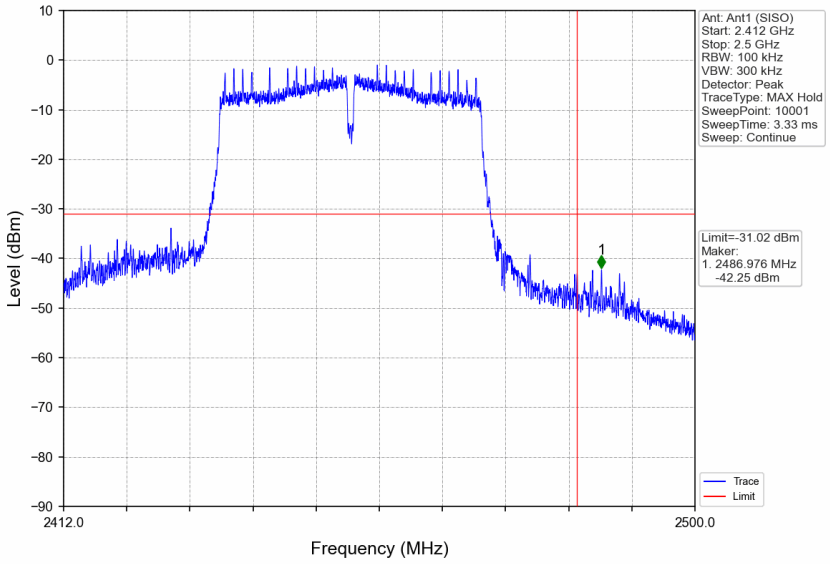
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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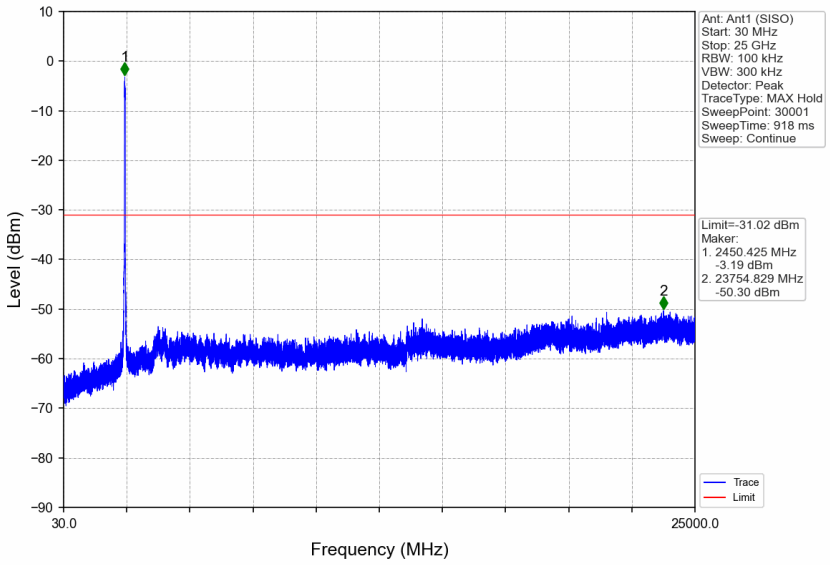

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