Appendix A for SHCR210900026301

1. Duty Cycle

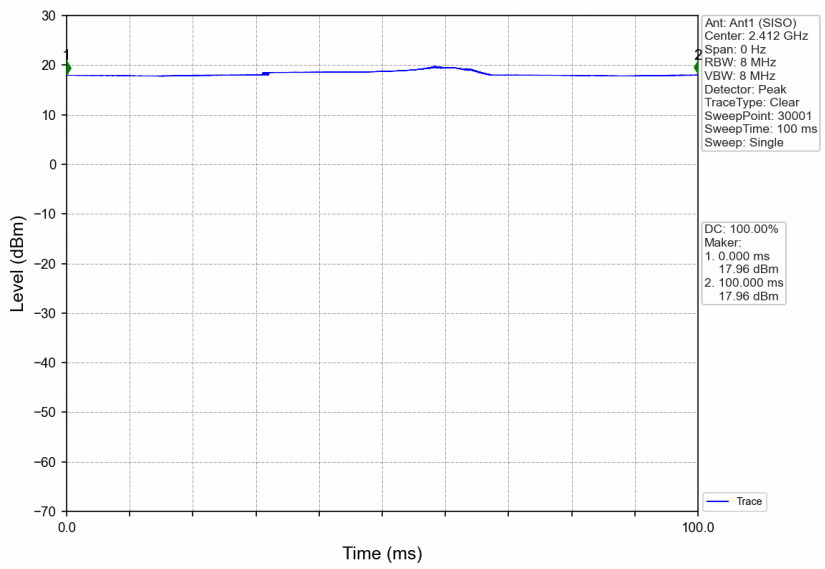
1.1 Ant1

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	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00

1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

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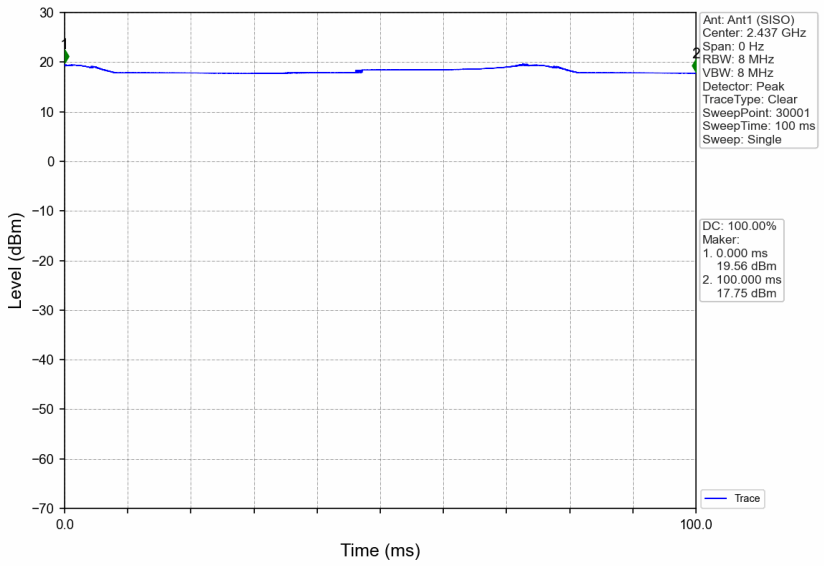

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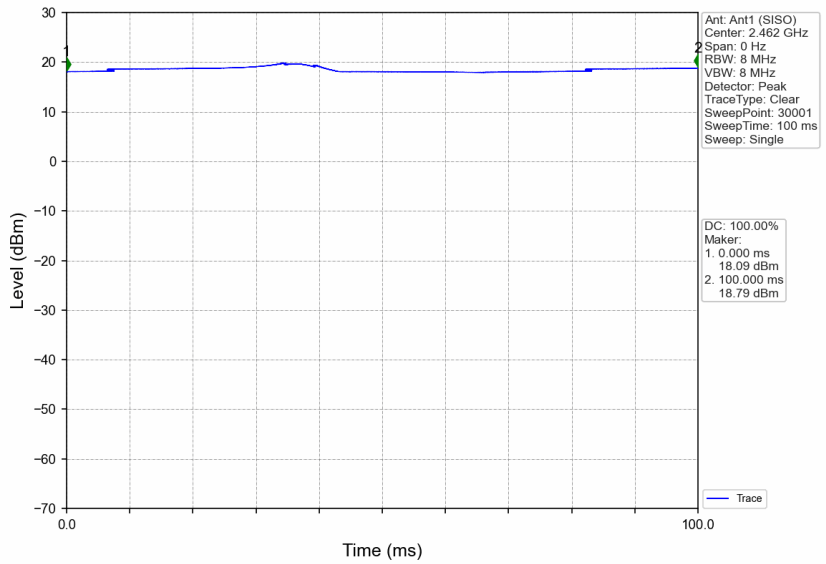
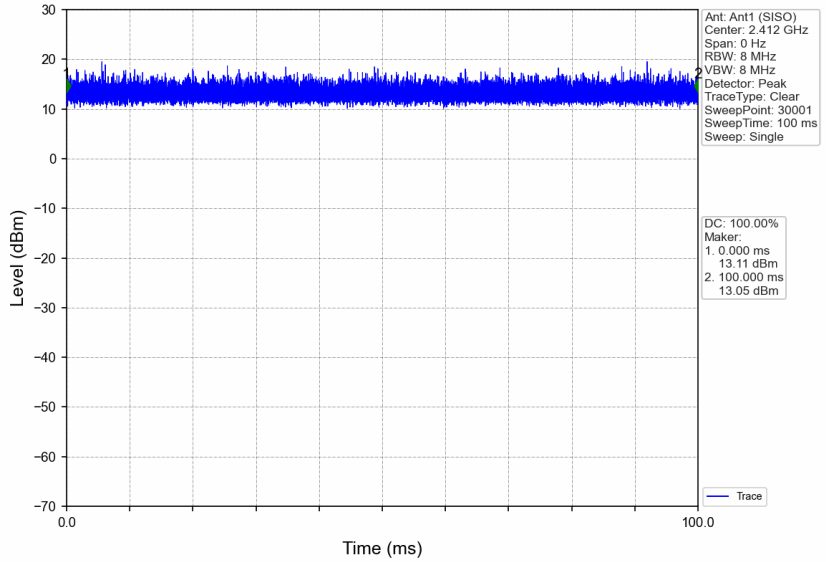
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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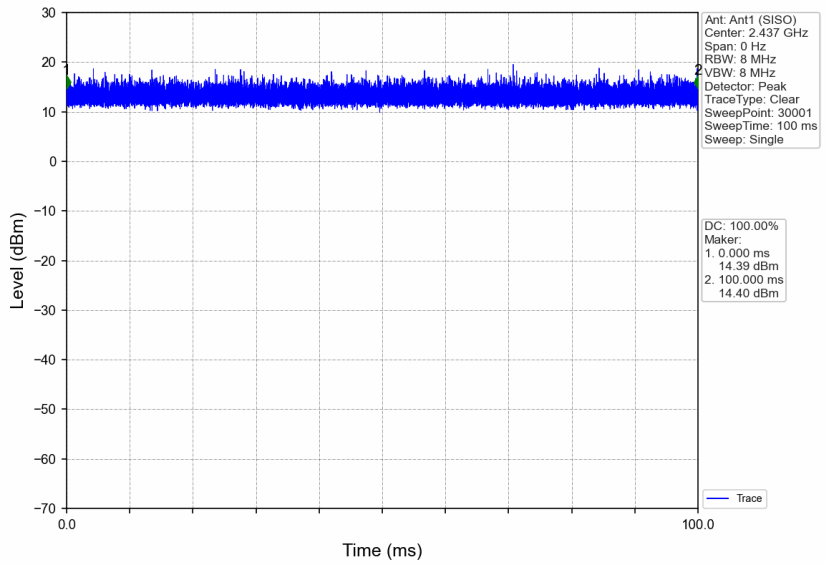
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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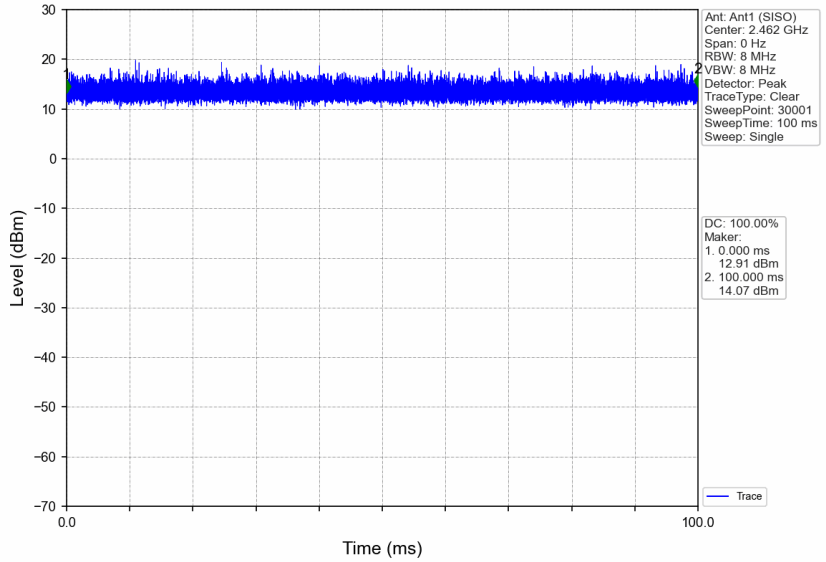

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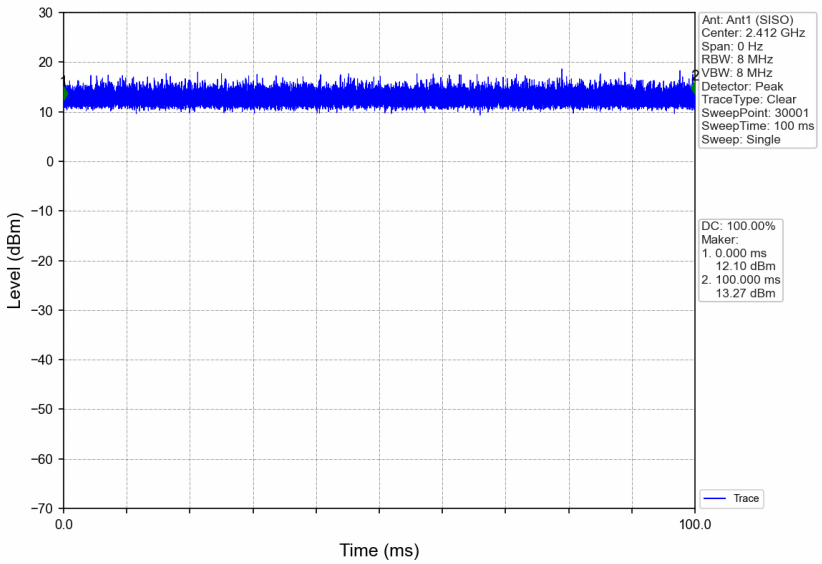
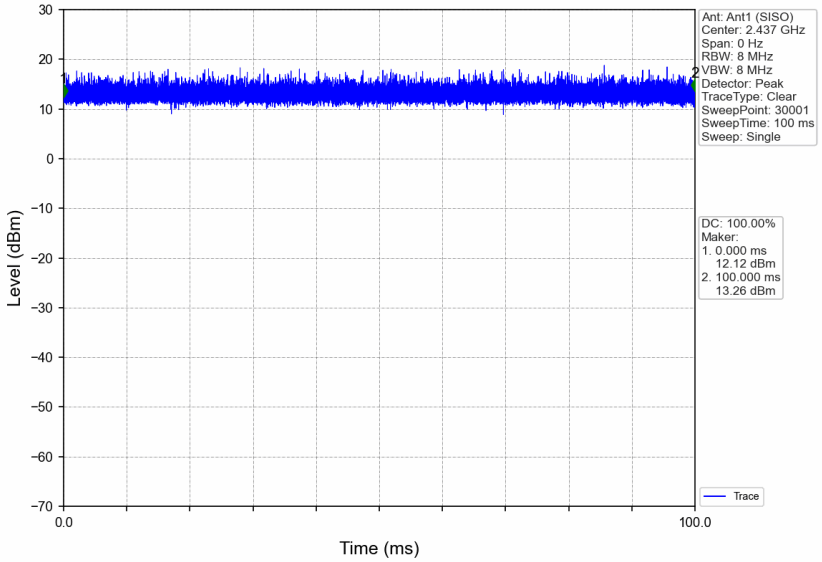
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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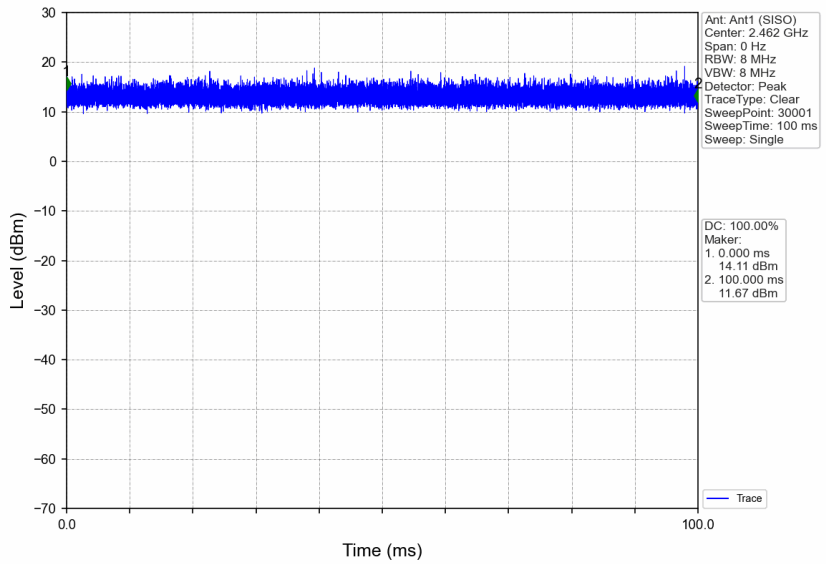
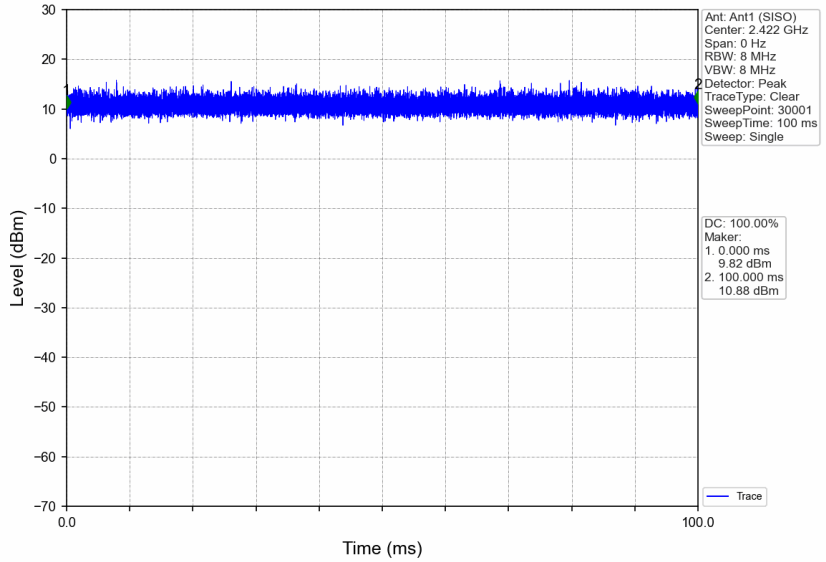
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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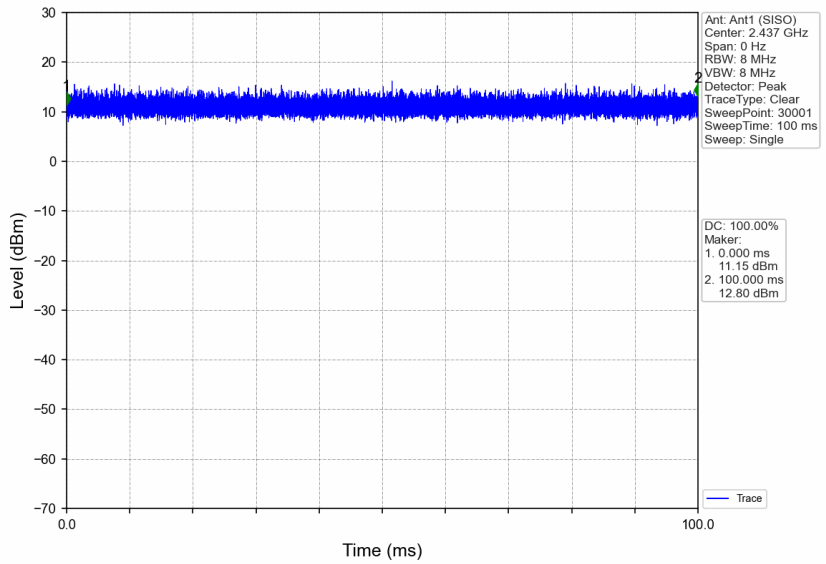
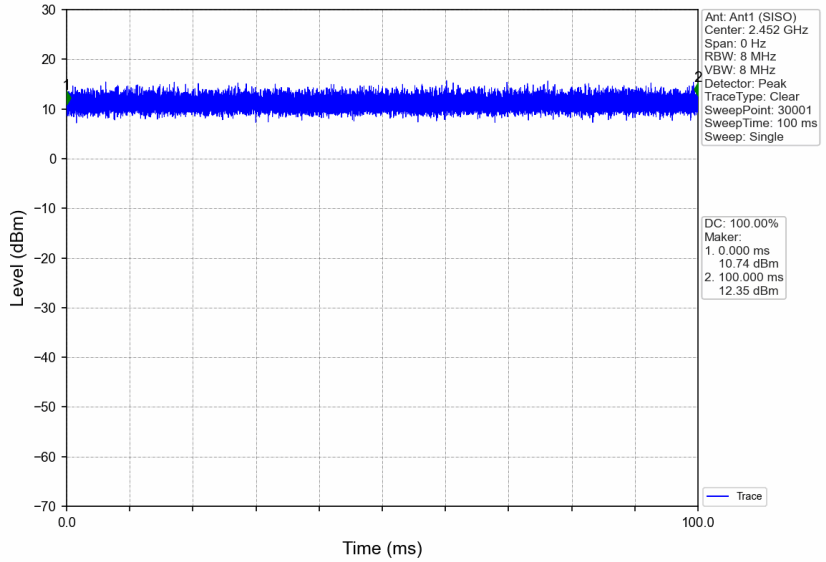
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	14.305	Pass
		2437	1	14.291	Pass
		2462	1	14.292	Pass
802.11g	SISO	2412	1	17.308	Pass
		2437	1	17.275	Pass
		2462	1	17.346	Pass
802.11n (HT20)	SISO	2412	1	18.072	Pass
		2437	1	18.083	Pass
		2462	1	18.085	Pass
802.11n (HT40)	SISO	2422	1	36.494	Pass
		2437	1	36.560	Pass
		2452	1	36.531	Pass

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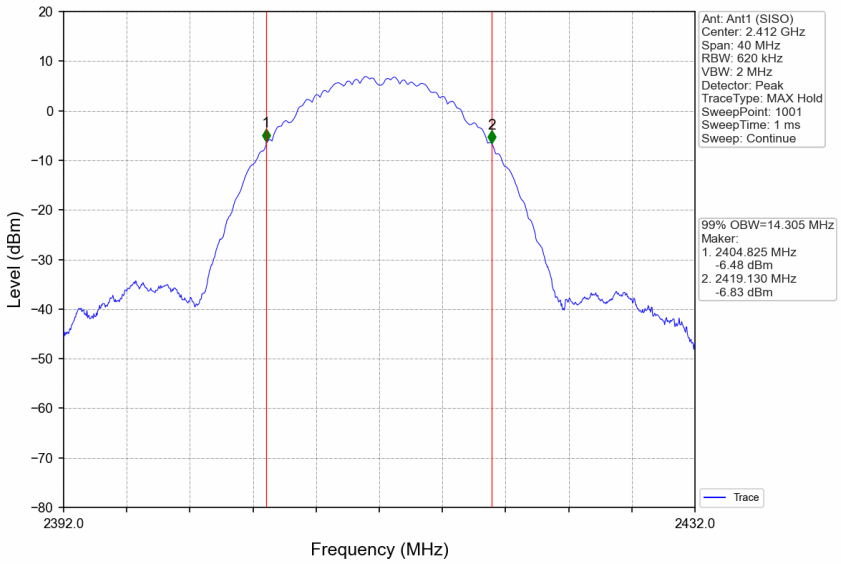
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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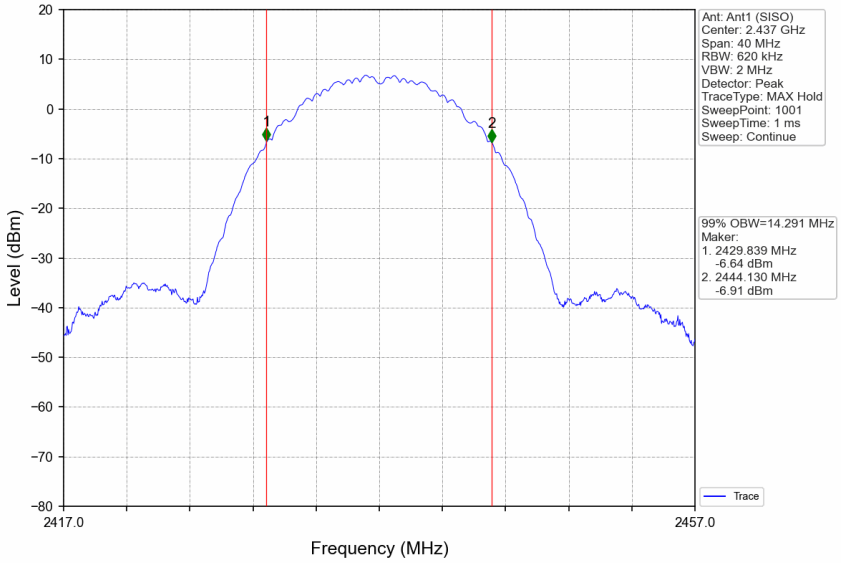

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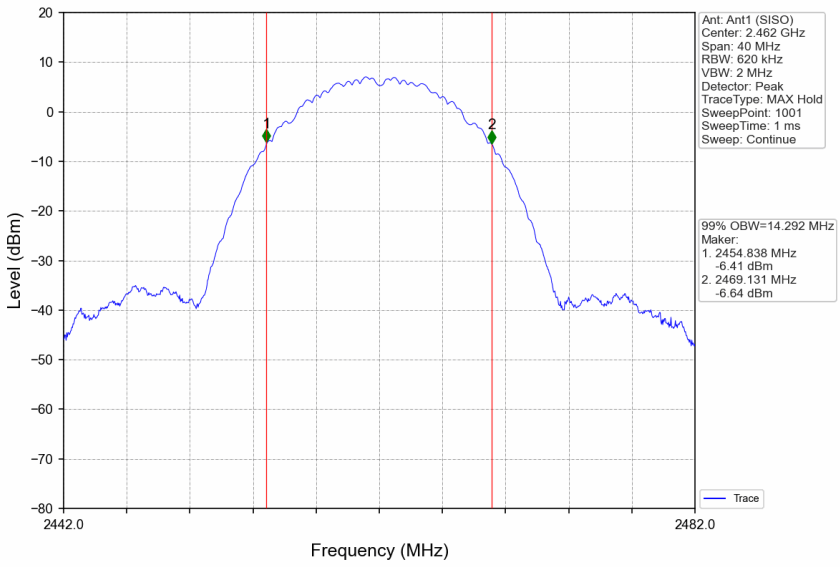

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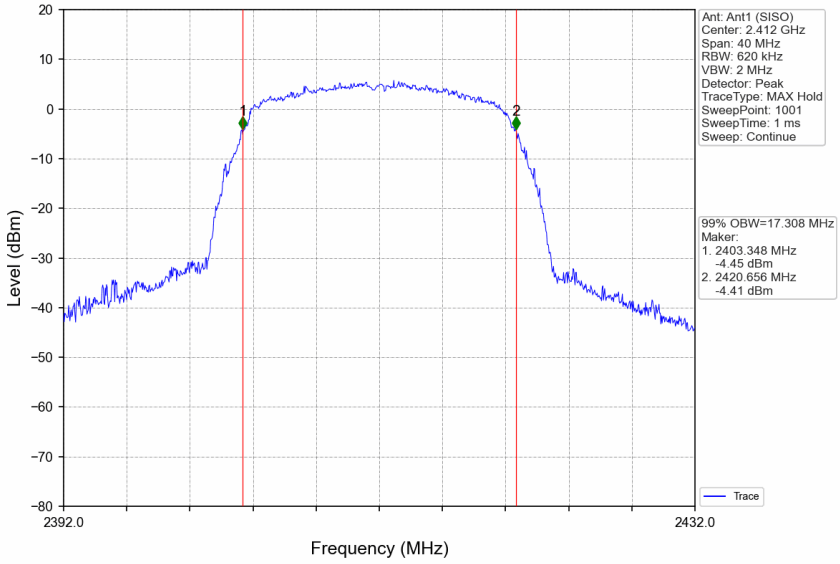

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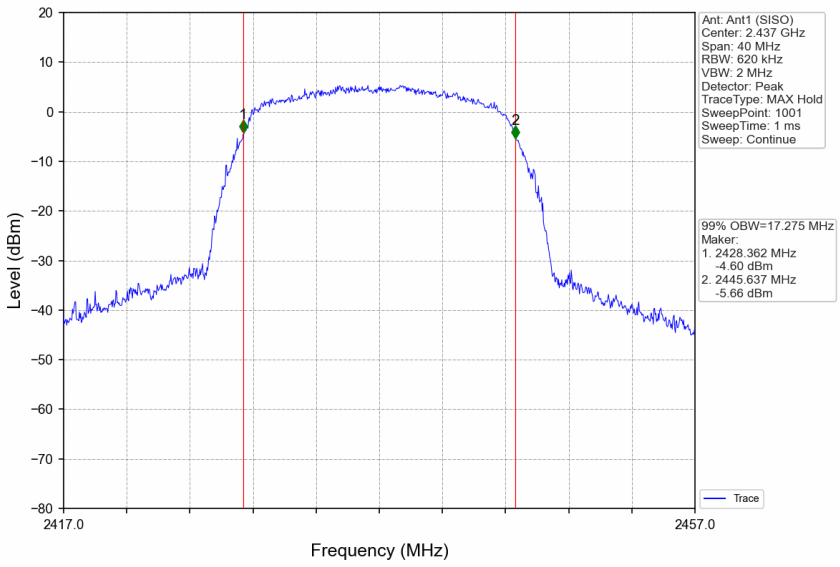

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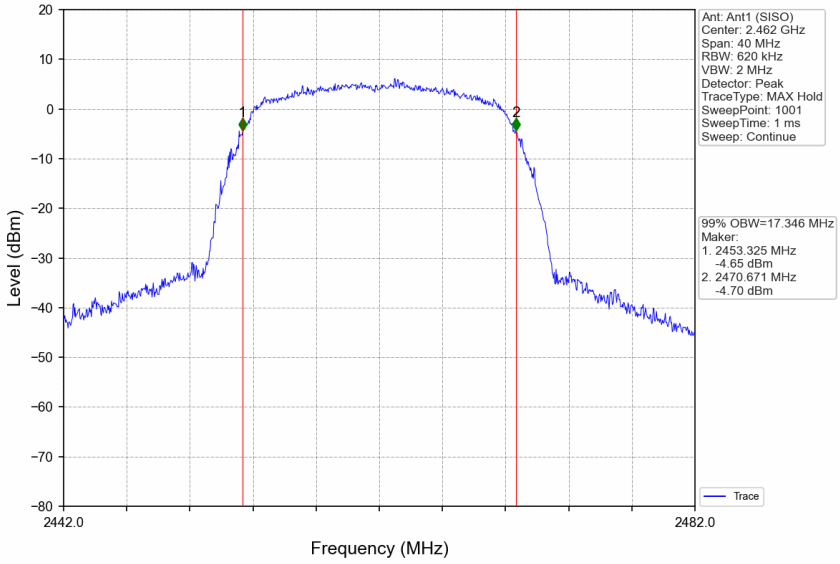

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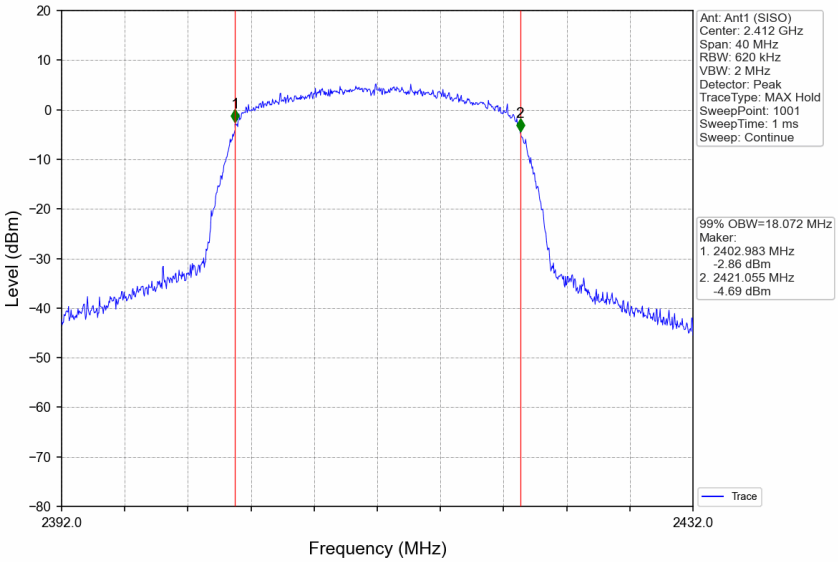
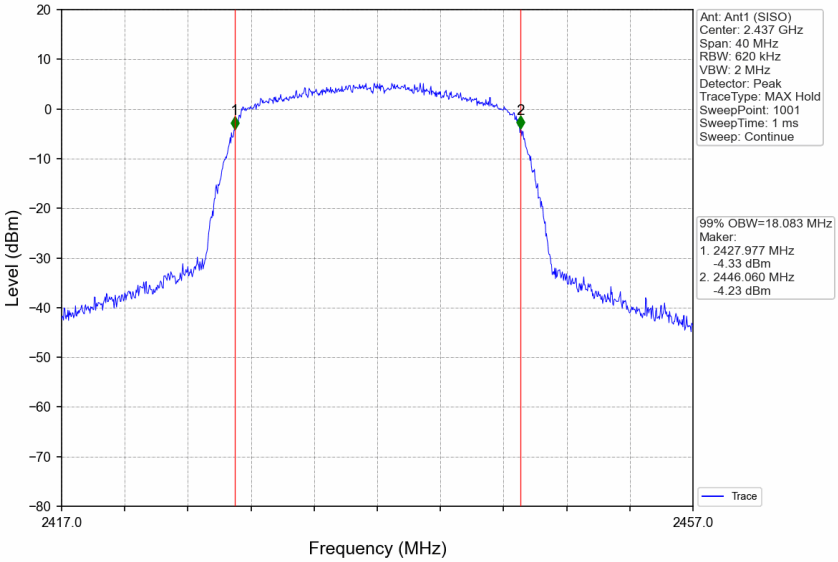
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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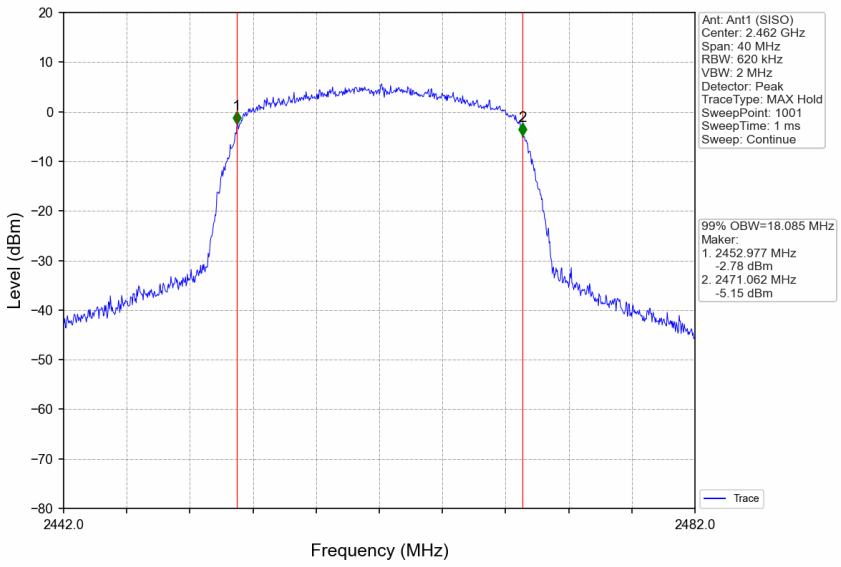
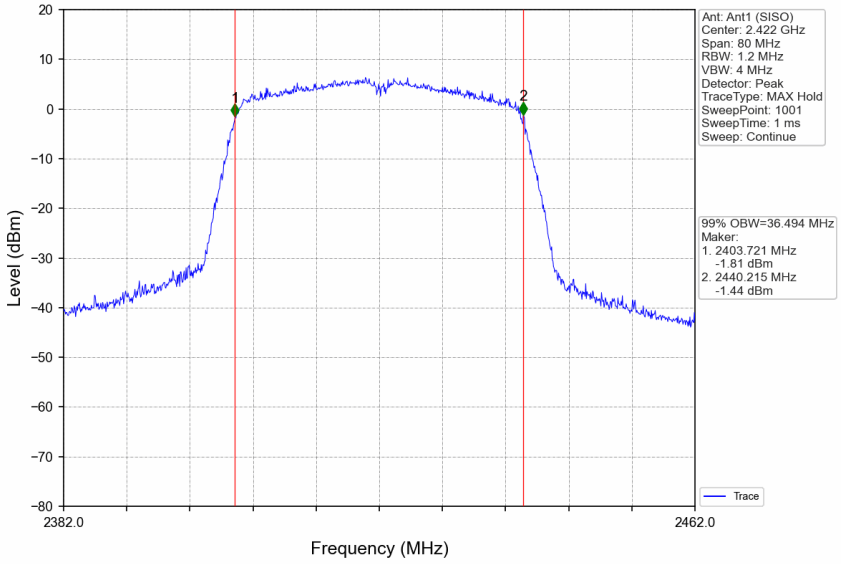
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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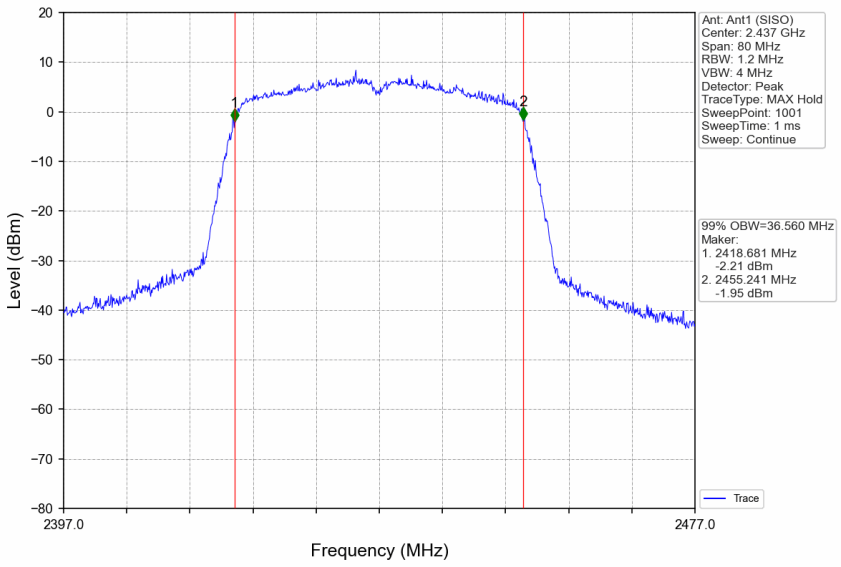
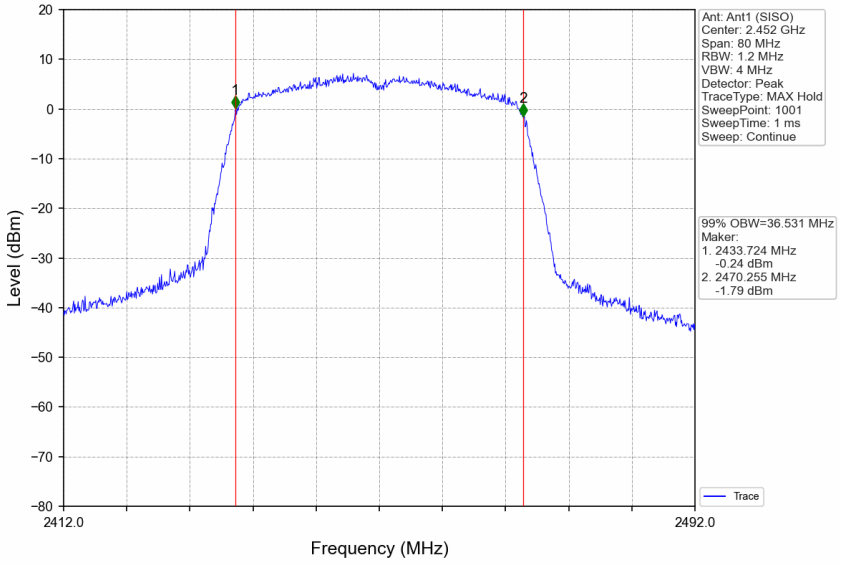
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.587	>=0.5	Pass
		2437	1	9.576	>=0.5	Pass
		2462	1	9.574	>=0.5	Pass
802.11g	SISO	2412	1	16.325	>=0.5	Pass
		2437	1	16.342	>=0.5	Pass
		2462	1	16.352	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.314	>=0.5	Pass
		2437	1	17.300	>=0.5	Pass
		2462	1	17.603	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.606	>=0.5	Pass
		2437	1	36.050	>=0.5	Pass
		2452	1	36.024	>=0.5	Pass

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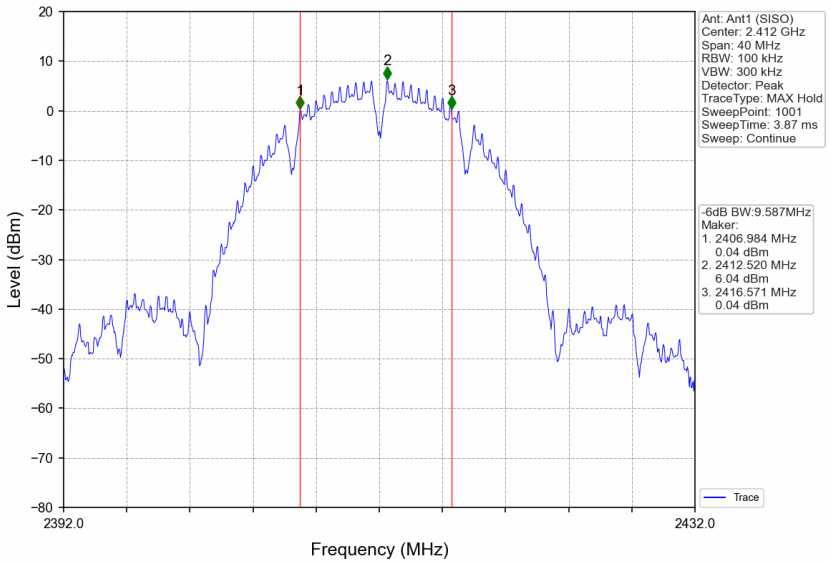
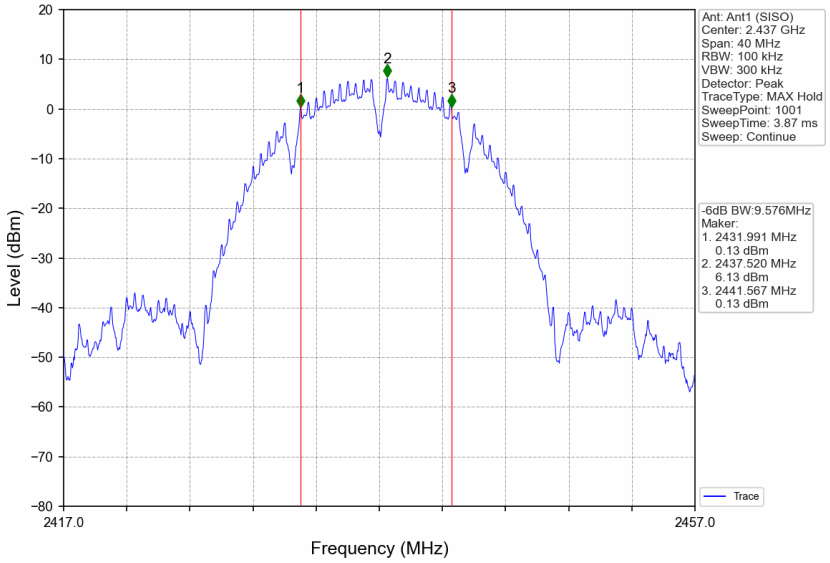
2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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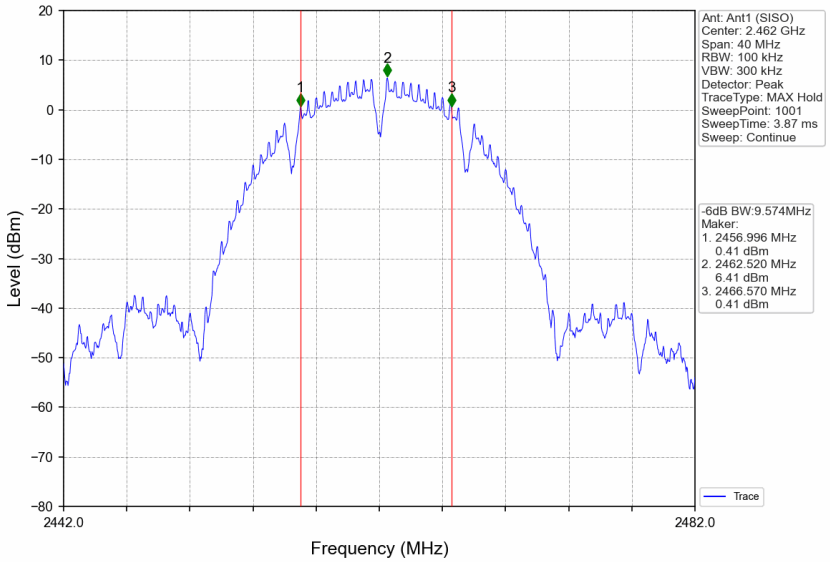
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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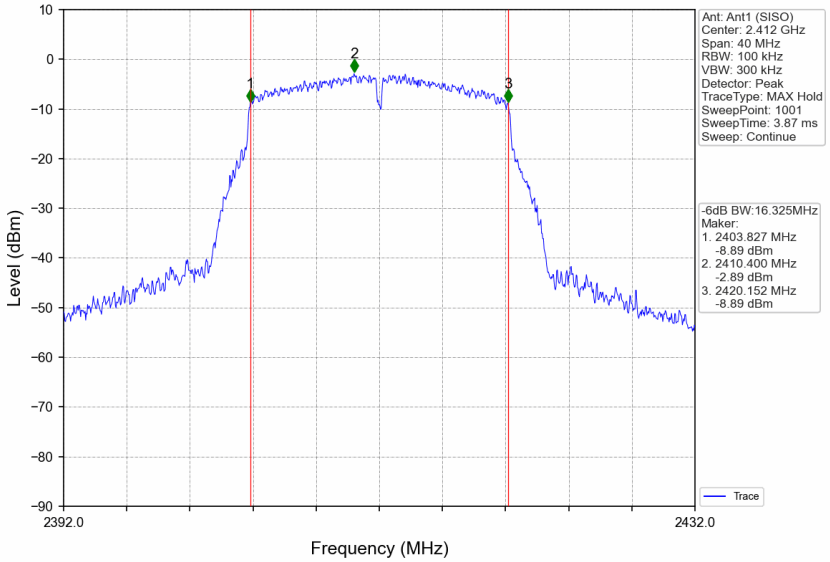

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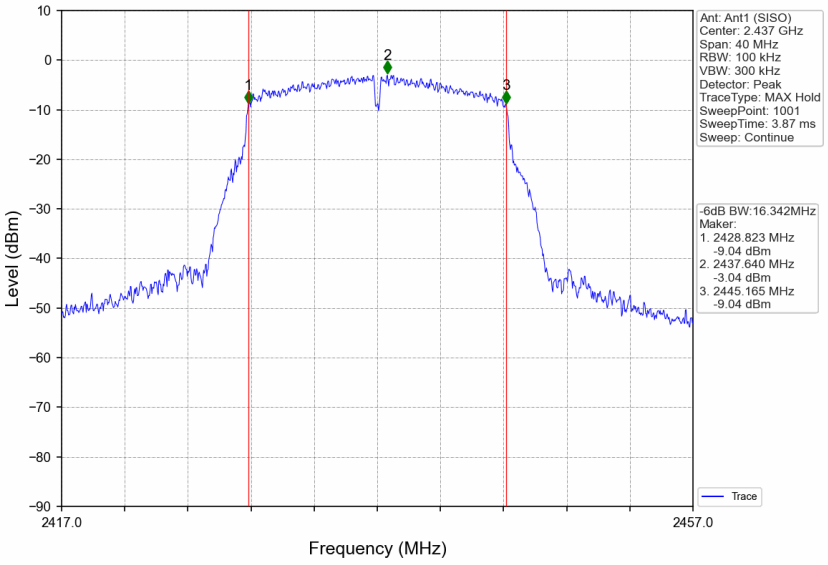
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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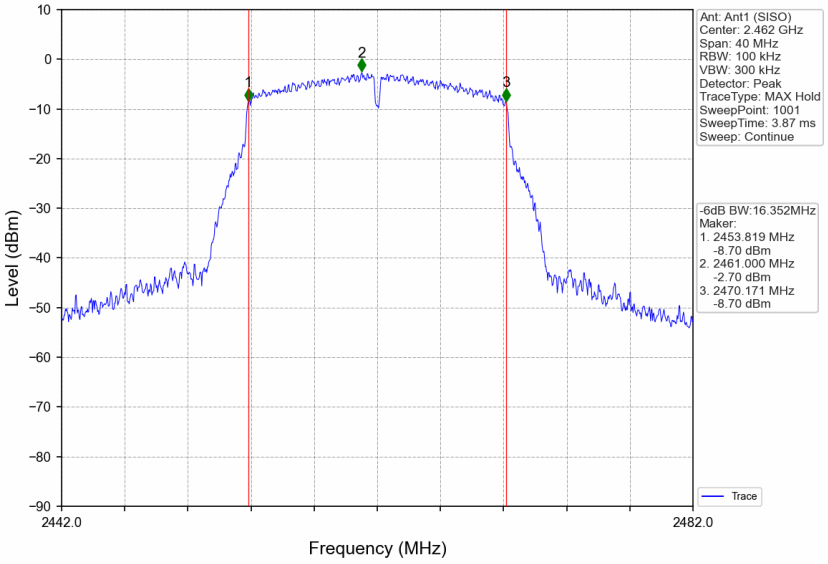

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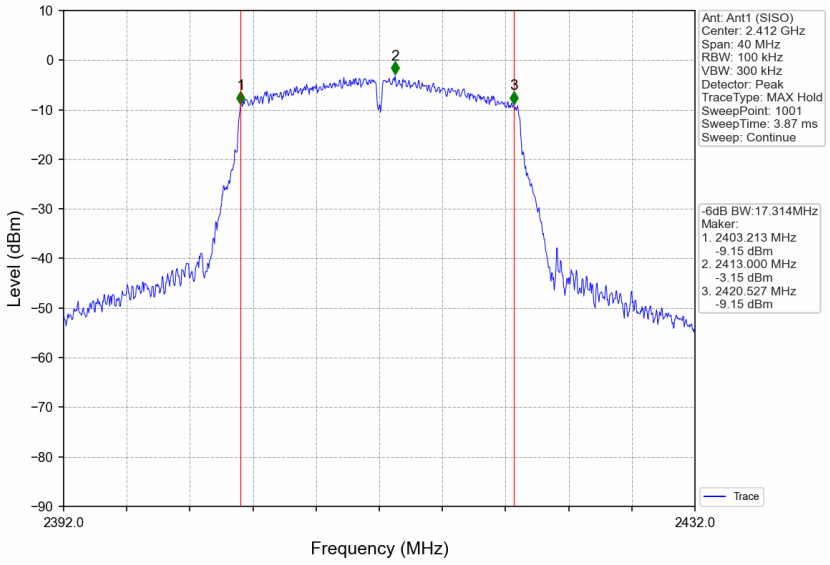
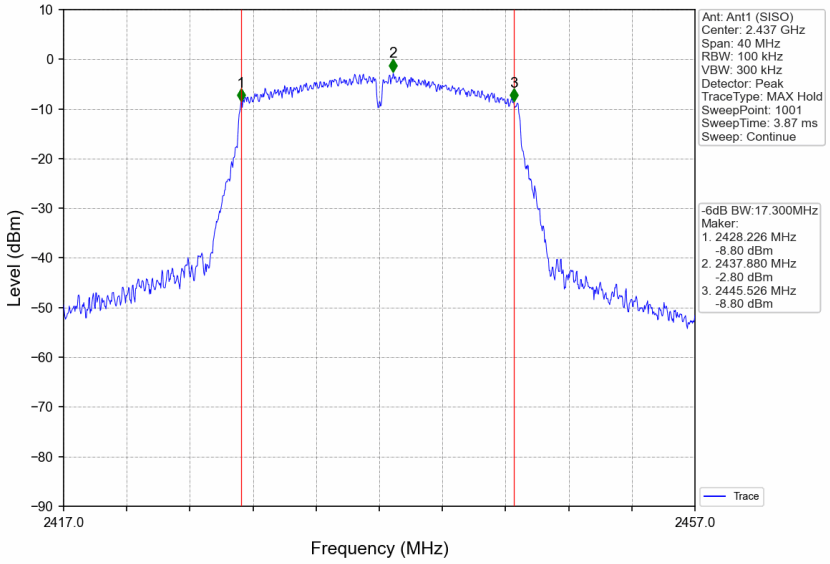
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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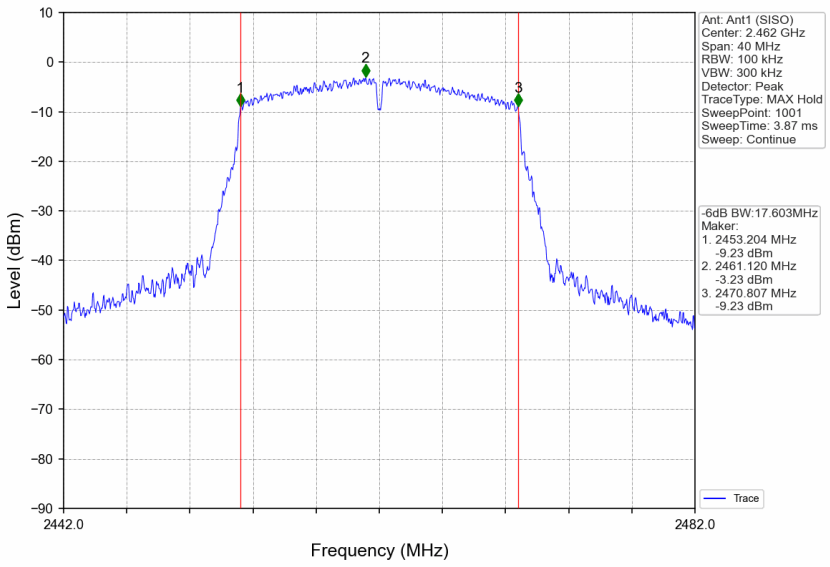

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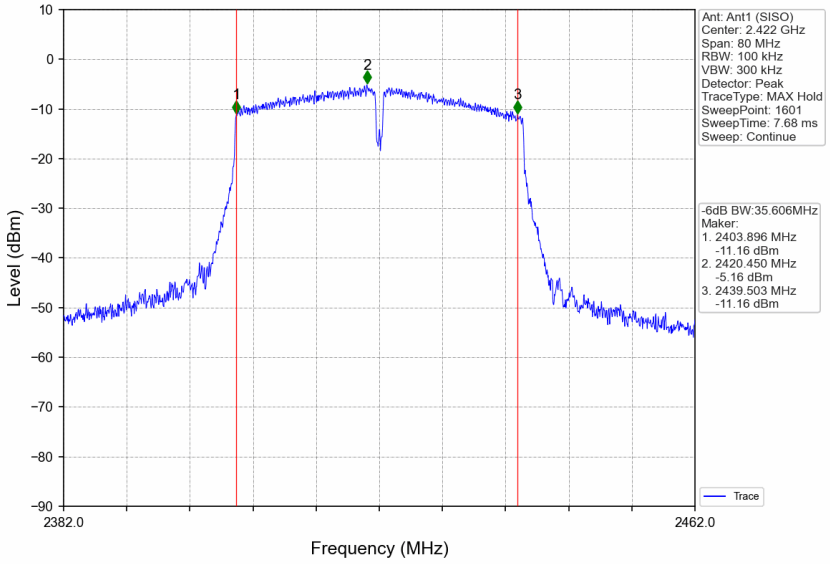

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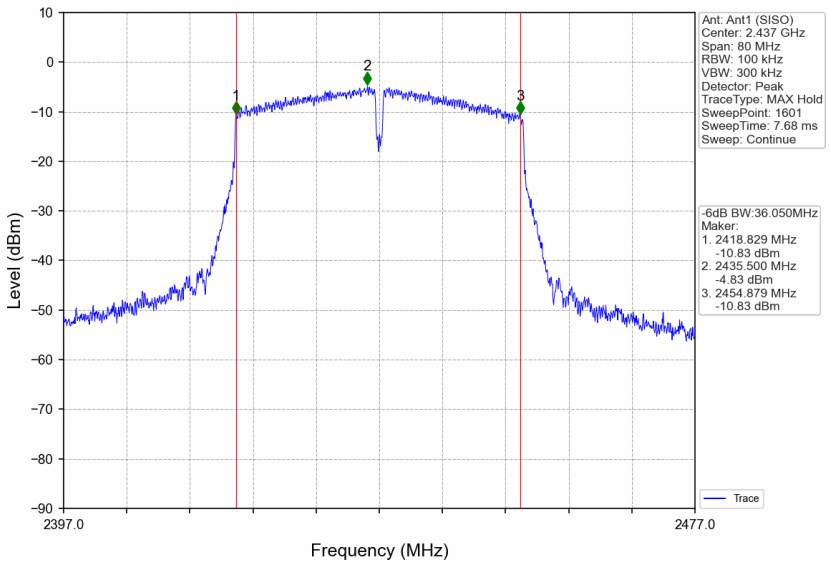
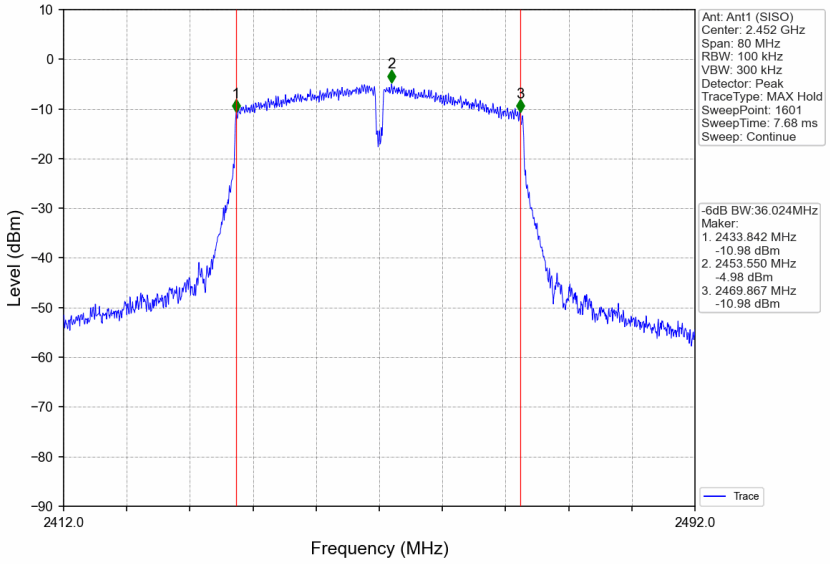
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	Limit	
802.11b	SISO	2412	17.29	<=30	Pass
		2437	17.18	<=30	Pass
		2462	17.41	<=30	Pass
802.11g	SISO	2412	17.47	<=30	Pass
		2437	17.50	<=30	Pass
		2462	17.74	<=30	Pass
802.11n (HT20)	SISO	2412	17.32	<=30	Pass
		2437	17.54	<=30	Pass
		2462	17.60	<=30	Pass
802.11n (HT40)	SISO	2422	17.89	<=30	Pass
		2437	18.30	<=30	Pass
		2452	18.31	<=30	Pass
Note1: Antenna Gain: Ant1: 1.73dBi;					

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	-8.14	<=8	Pass
		2437	-8.29	<=8	Pass
		2462	-7.73	<=8	Pass
802.11g	SISO	2412	-14.40	<=8	Pass
		2437	-14.55	<=8	Pass
		2462	-14.46	<=8	Pass
802.11n (HT20)	SISO	2412	-14.24	<=8	Pass
		2437	-14.94	<=8	Pass
		2462	-14.70	<=8	Pass
802.11n (HT40)	SISO	2422	-16.61	<=8	Pass
		2437	-16.97	<=8	Pass
		2452	-16.91	<=8	Pass
Note1: Antenna Gain: Ant1: 1.73dBi;					

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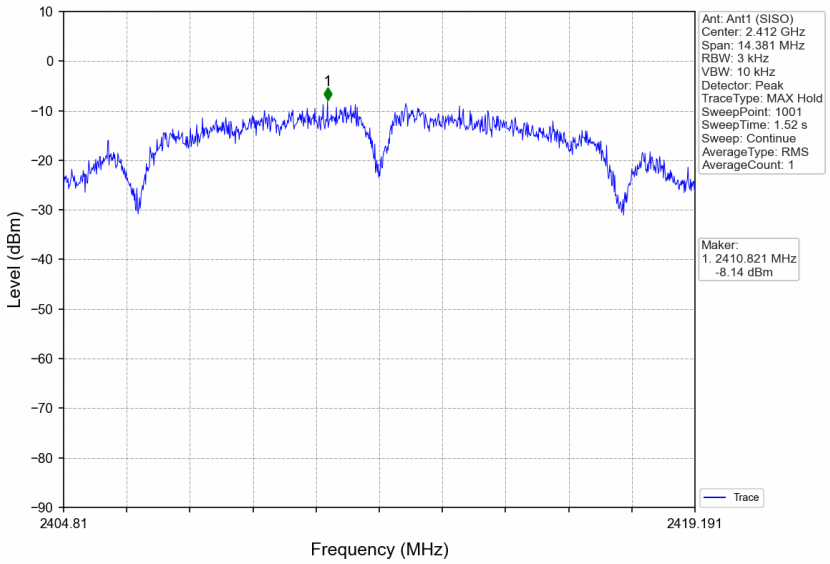
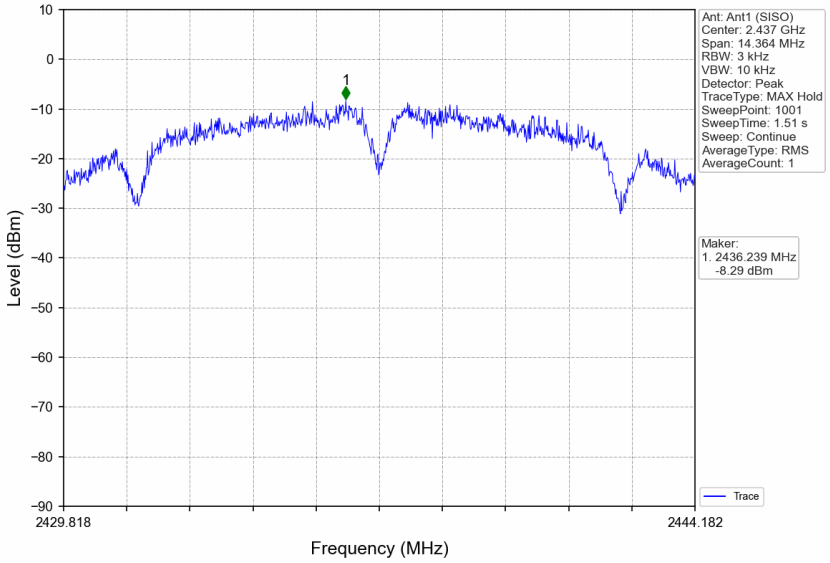
4.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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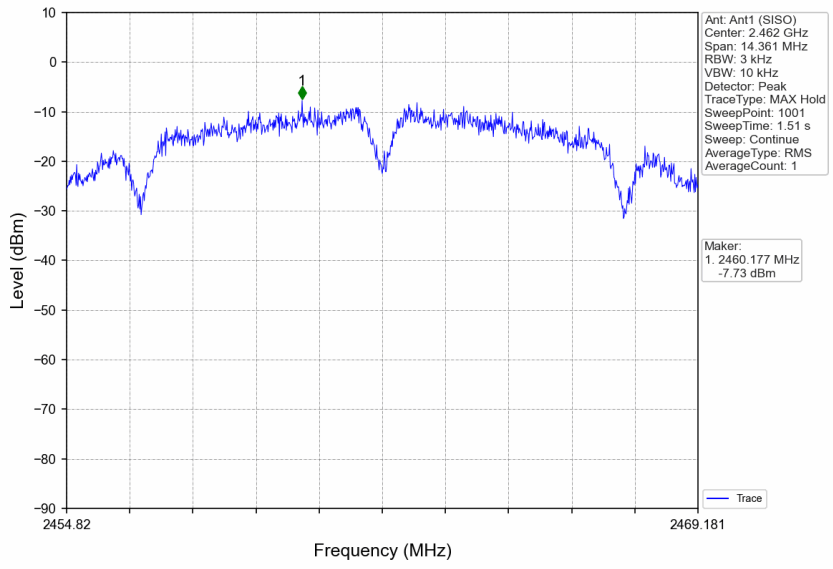
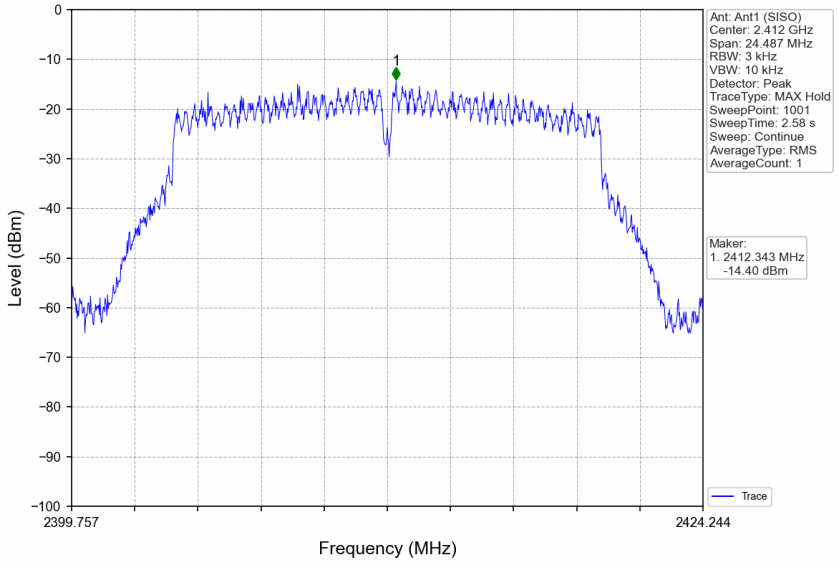
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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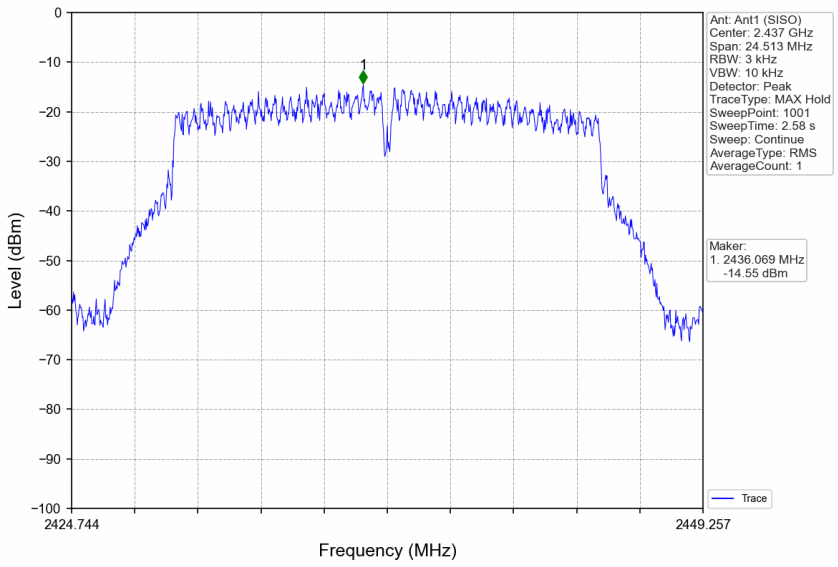
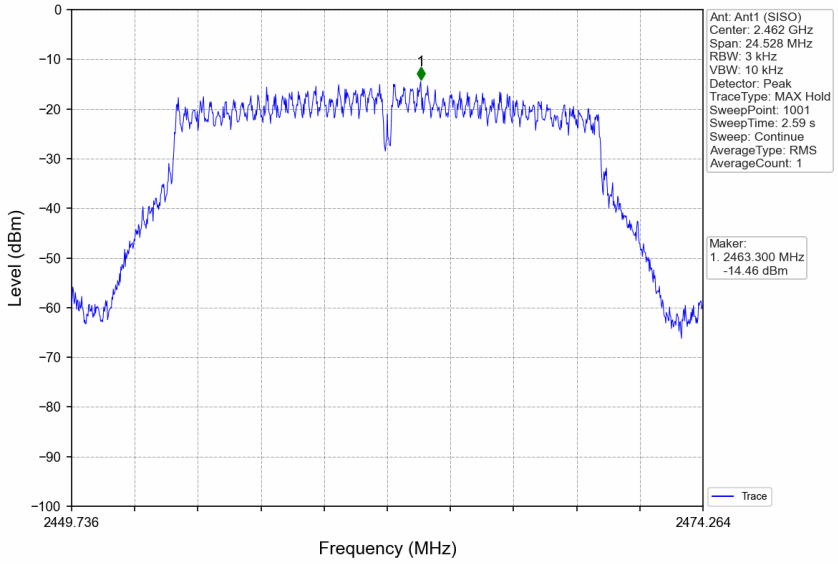
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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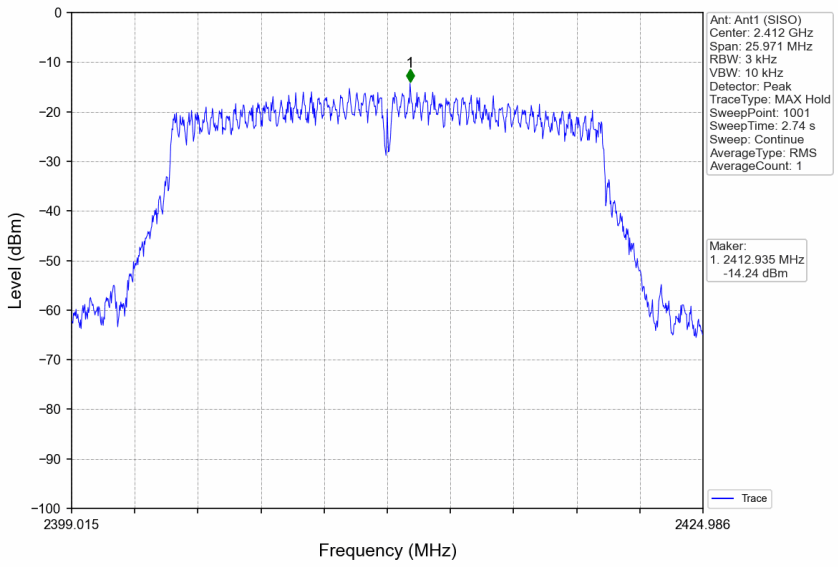
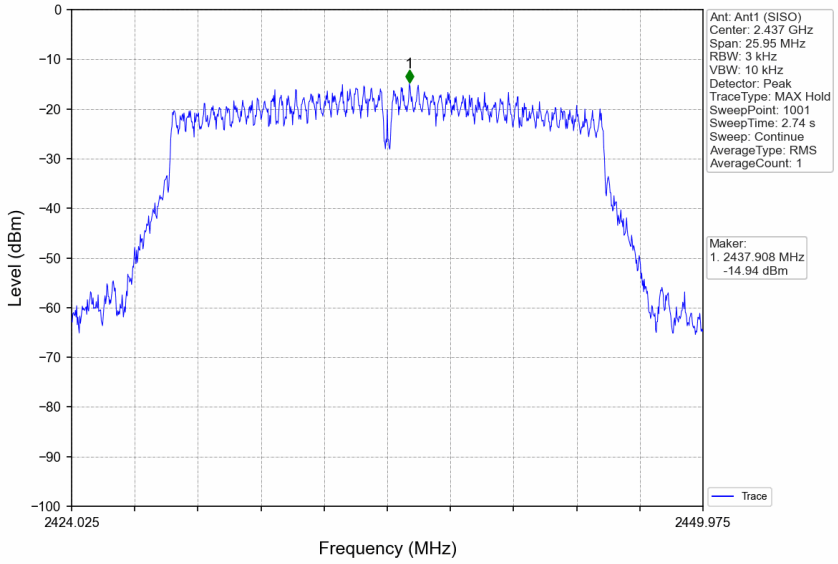
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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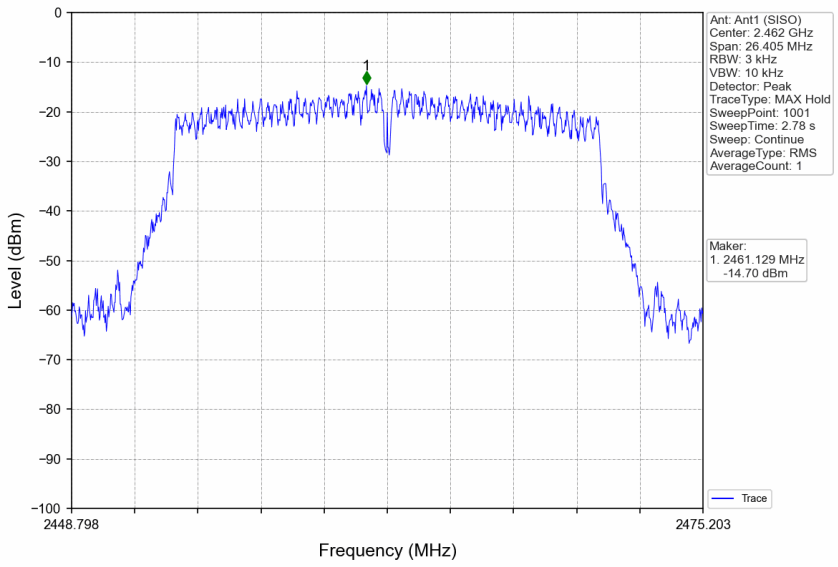
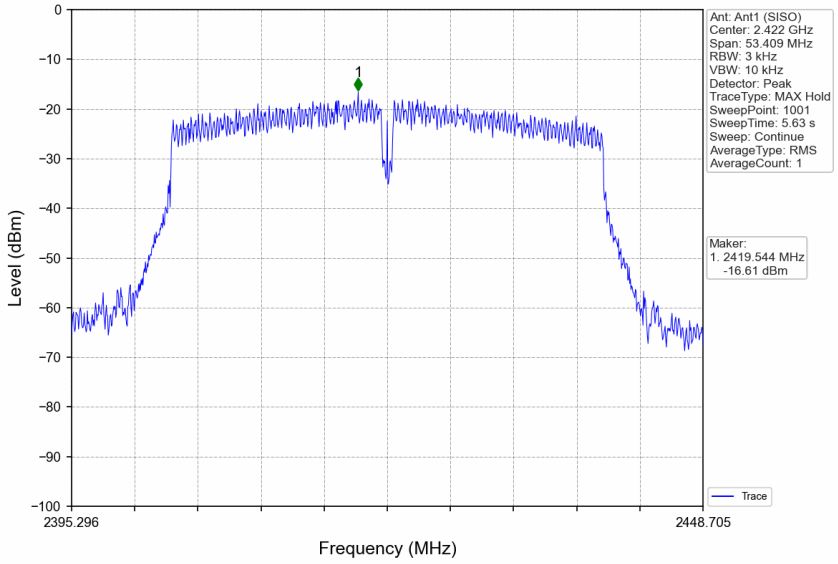
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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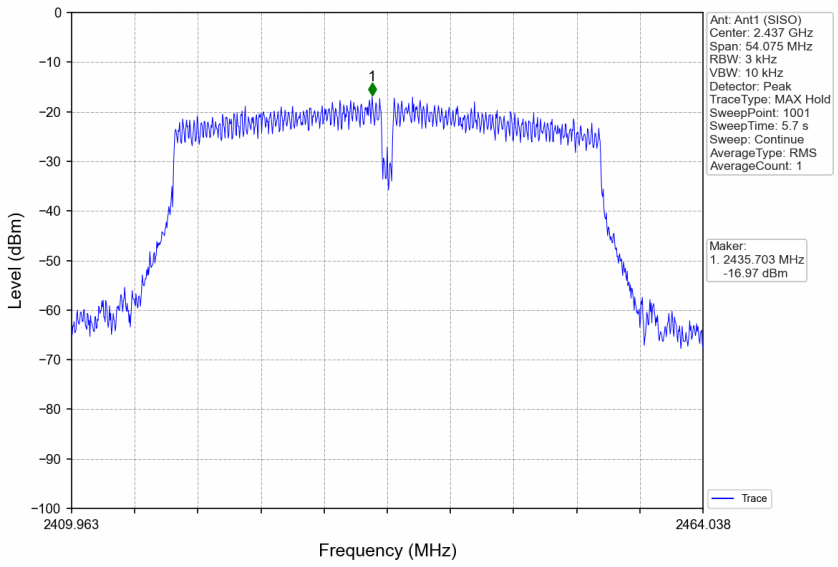
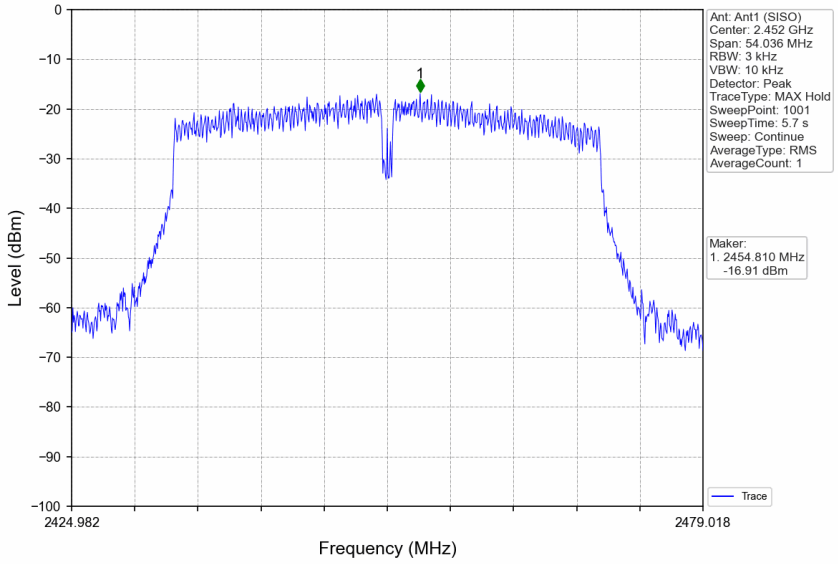
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	5.99
		2437	1	5.98
		2462	1	6.10
802.11g	SISO	2412	1	-3.08
		2437	1	-2.90
		2462	1	-2.72
802.11n (HT20)	SISO	2412	1	-3.24
		2437	1	-3.55
		2462	1	-3.31
802.11n (HT40)	SISO	2422	1	-5.34
		2437	1	-4.78
		2452	1	-5.24
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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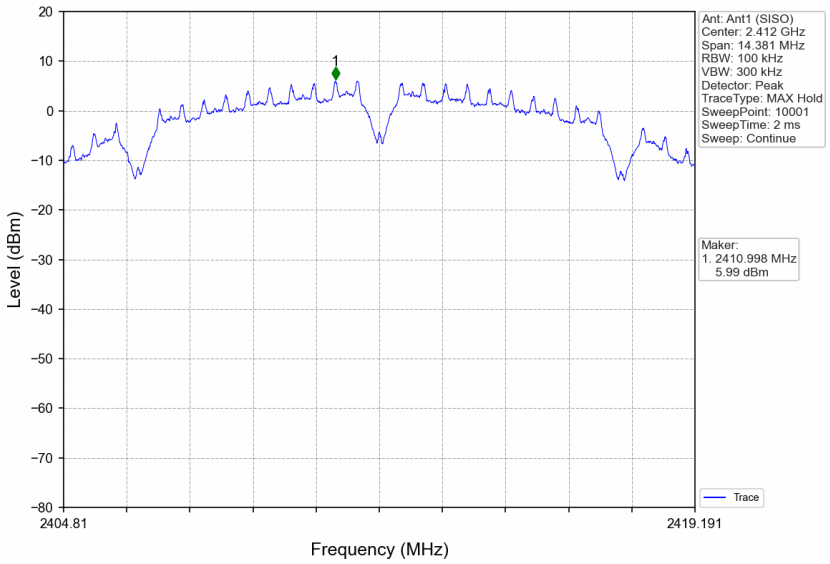
Member of the SGS Group (SGS SA)

5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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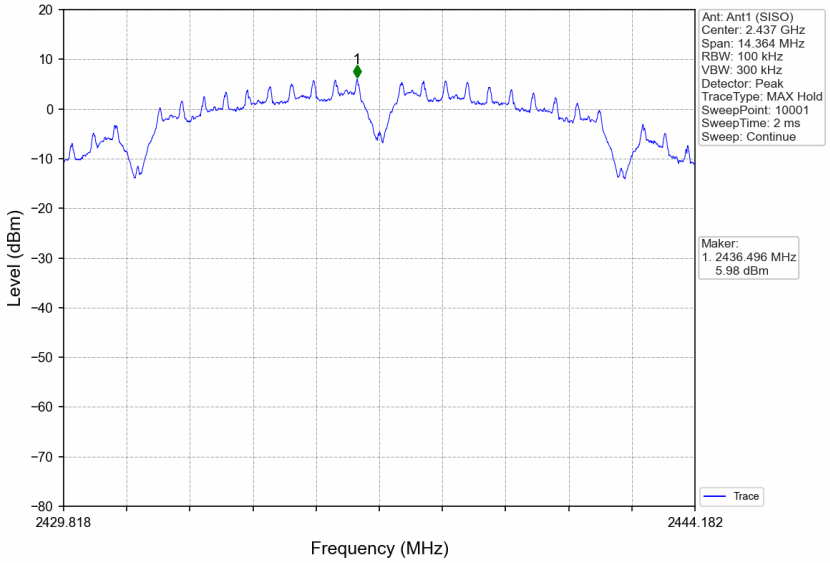

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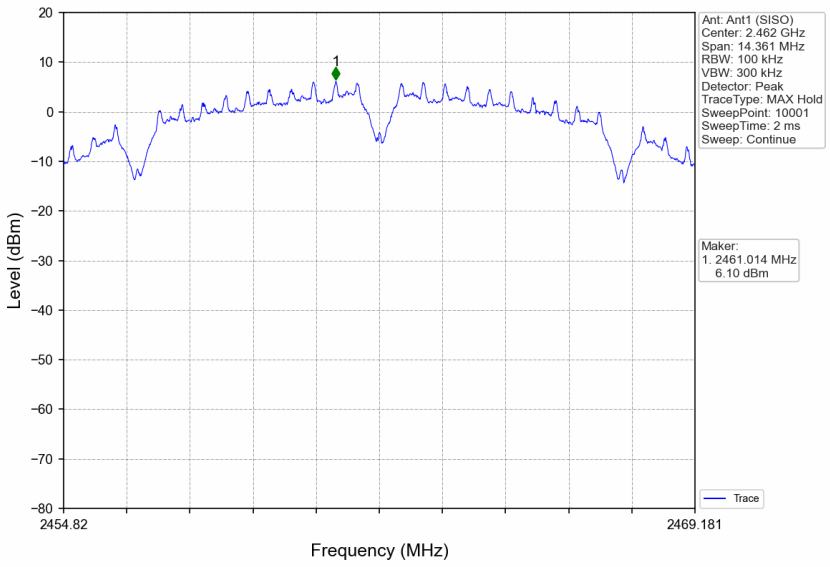
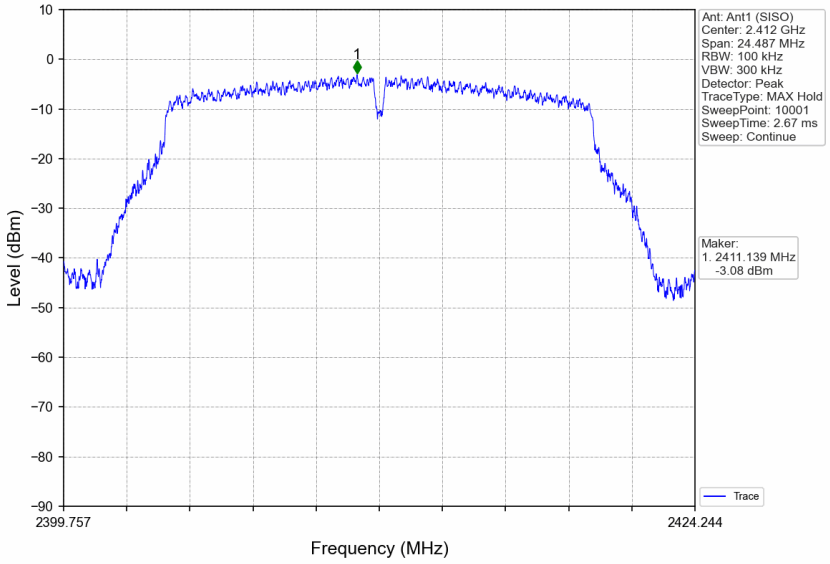
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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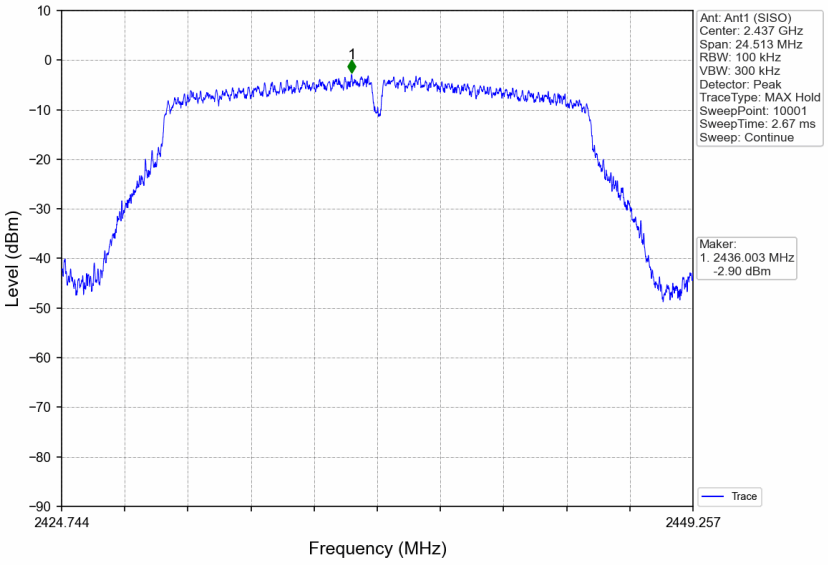
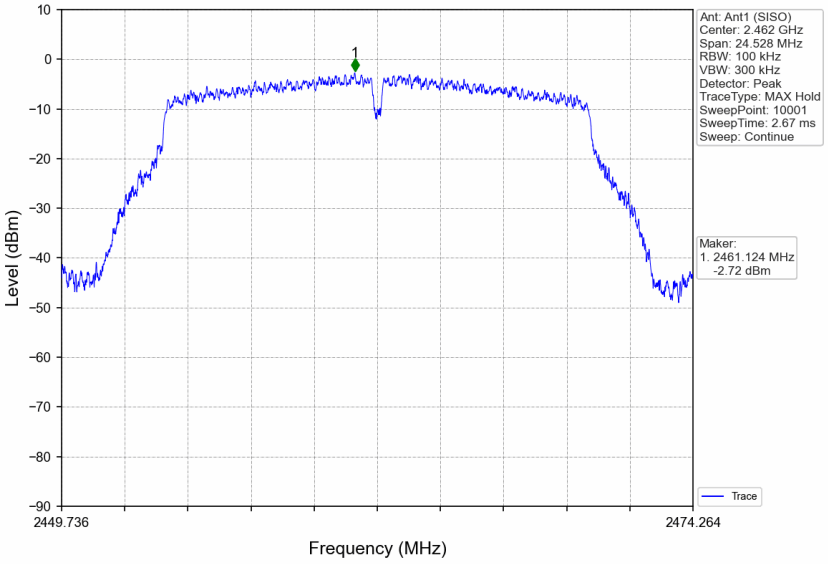
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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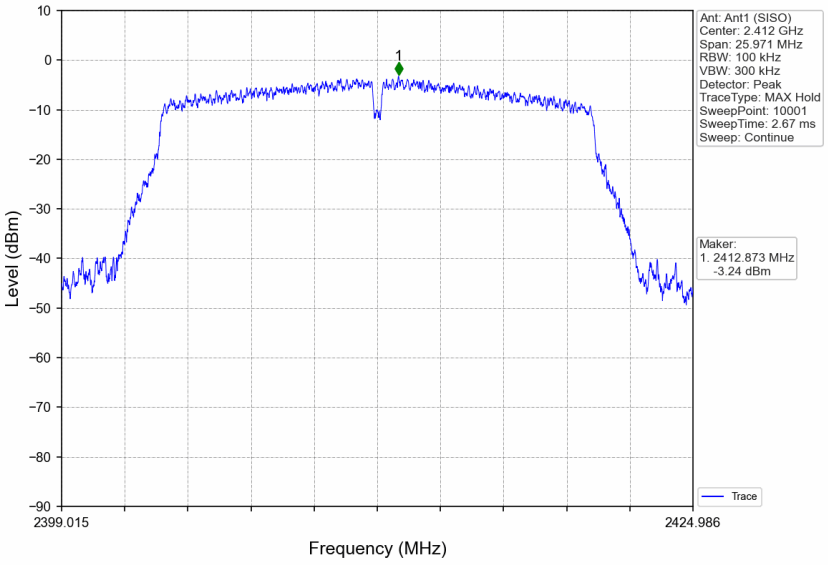
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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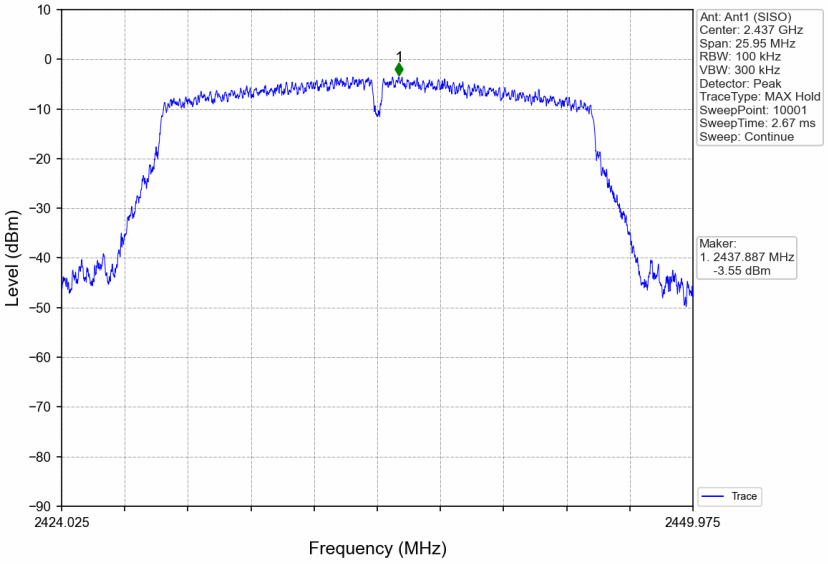

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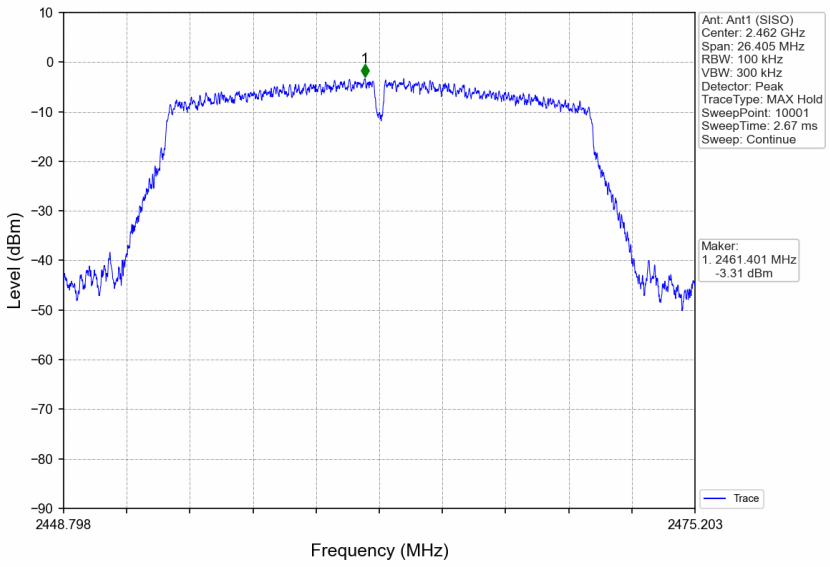
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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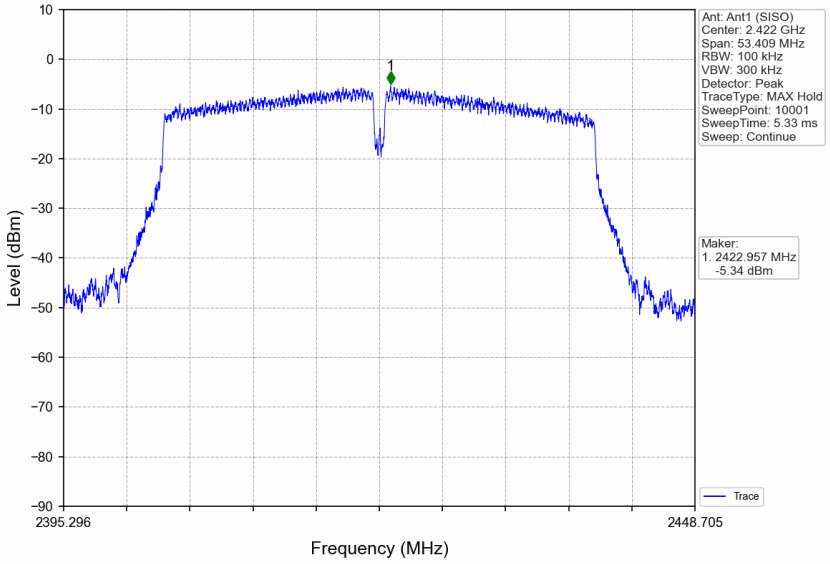

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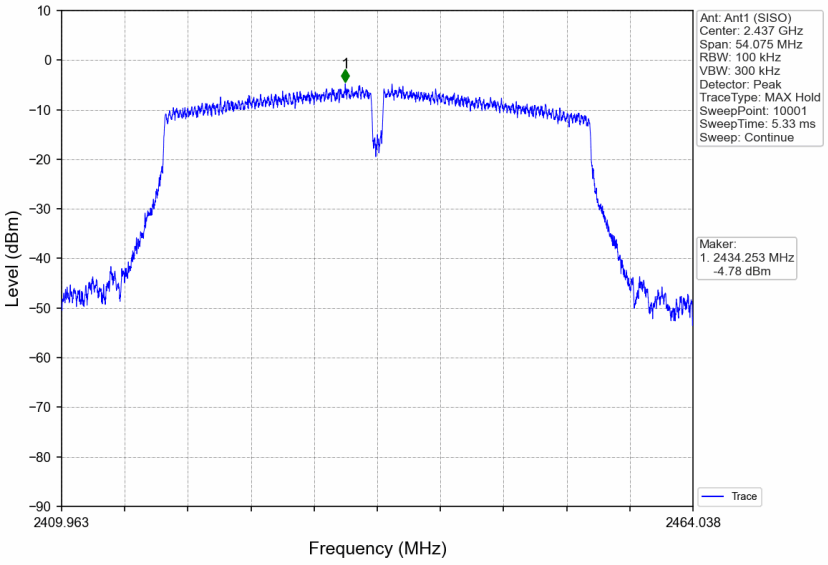
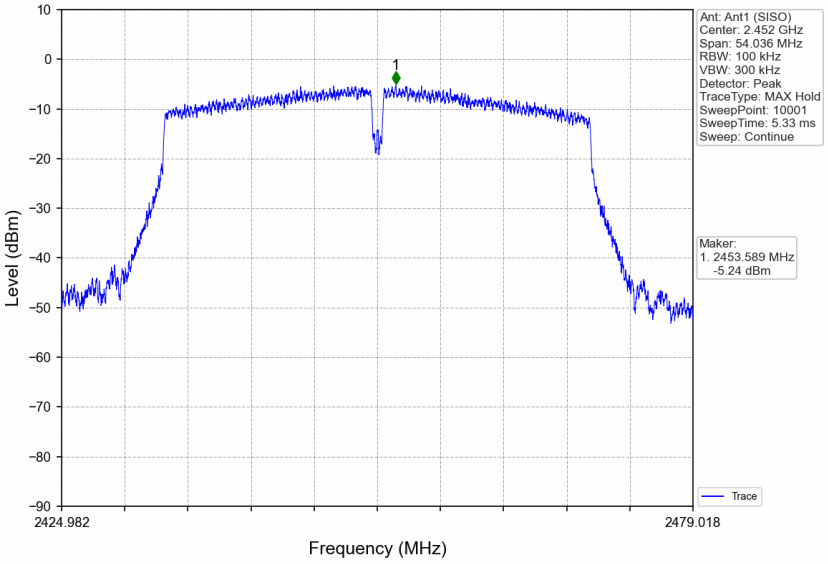
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	6.10	-13.90	Pass
		2437	1	6.10	-13.90	Pass
		2462	1	6.10	-13.90	Pass
802.11g	SISO	2412	1	-2.72	-22.72	Pass
		2437	1	-2.72	-22.72	Pass
		2462	1	-2.72	-22.72	Pass
802.11n (HT20)	SISO	2412	1	-3.24	-23.24	Pass
		2437	1	-3.24	-23.24	Pass
		2462	1	-3.24	-23.24	Pass
802.11n (HT40)	SISO	2422	1	-4.78	-24.78	Pass
		2437	1	-4.78	-24.78	Pass
		2452	1	-4.78	-24.78	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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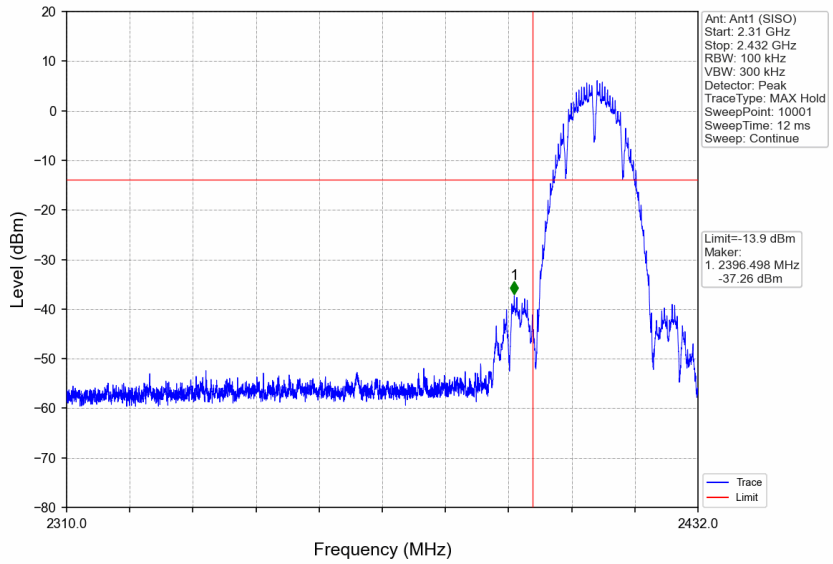
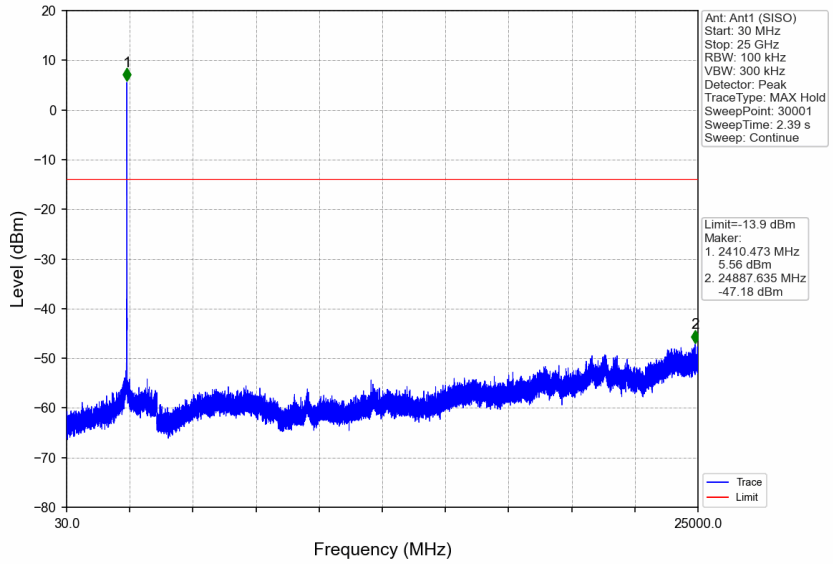
Member of the SGS Group (SGS SA)

5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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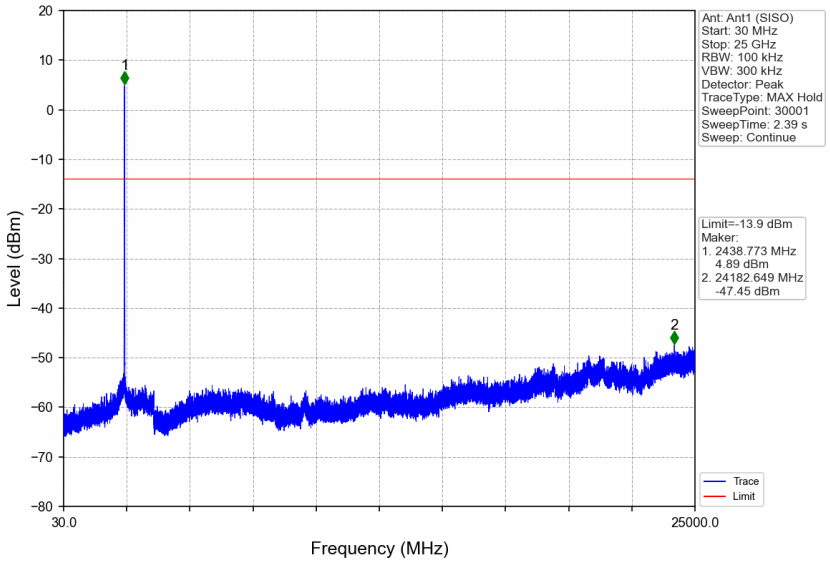
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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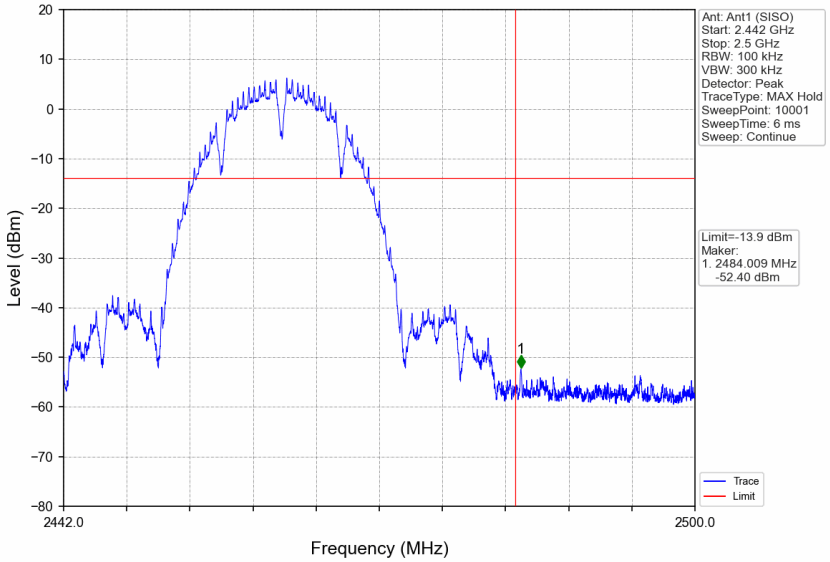

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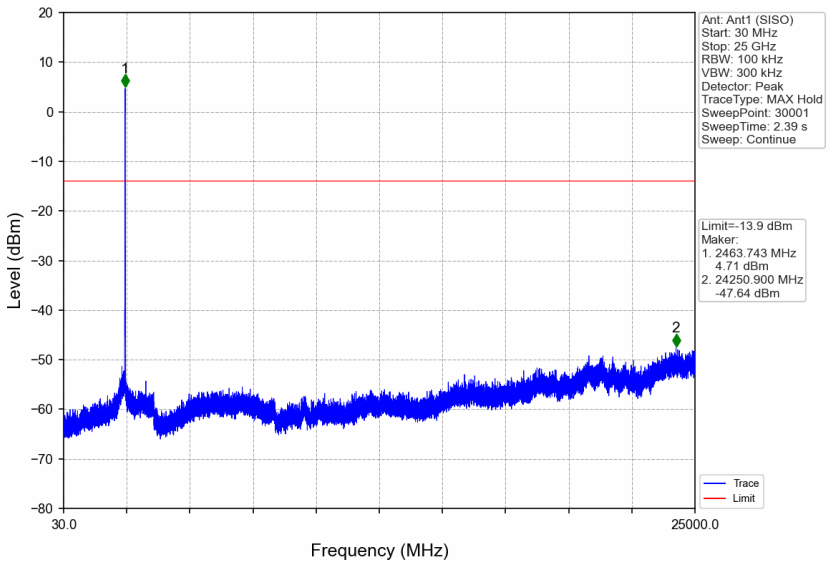

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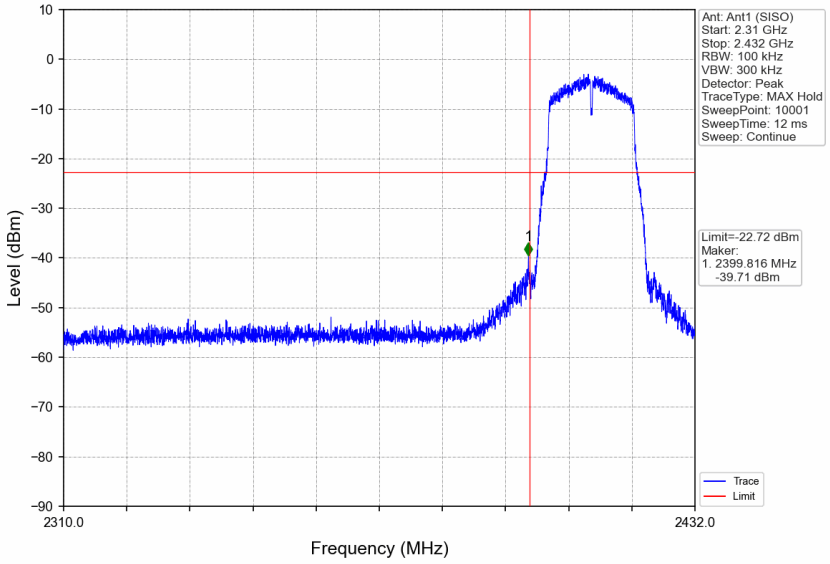

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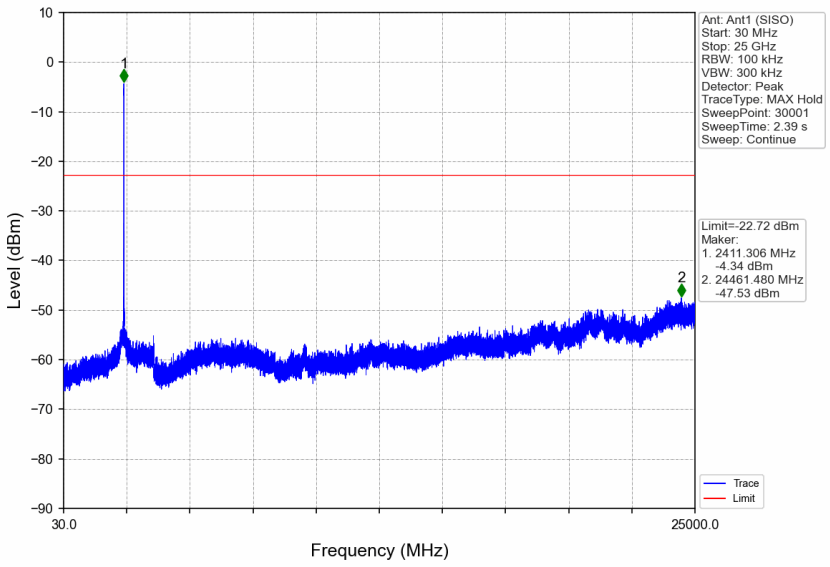

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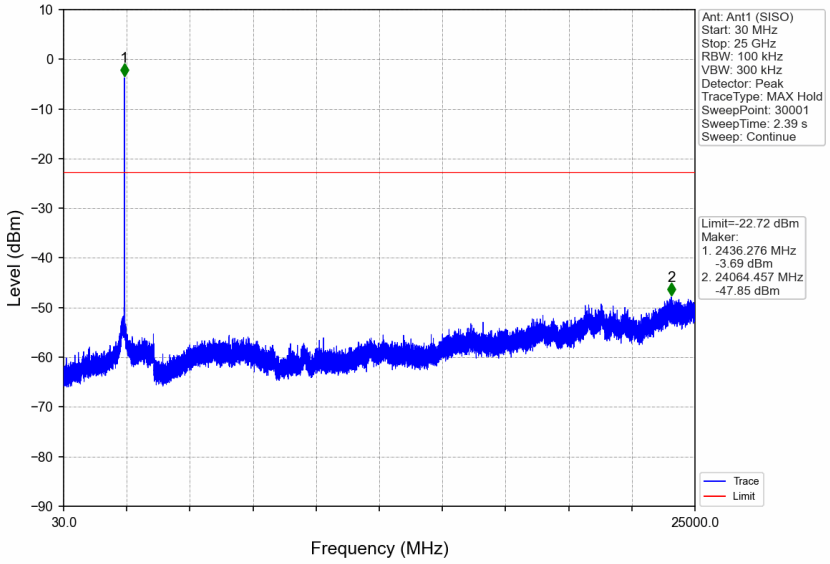

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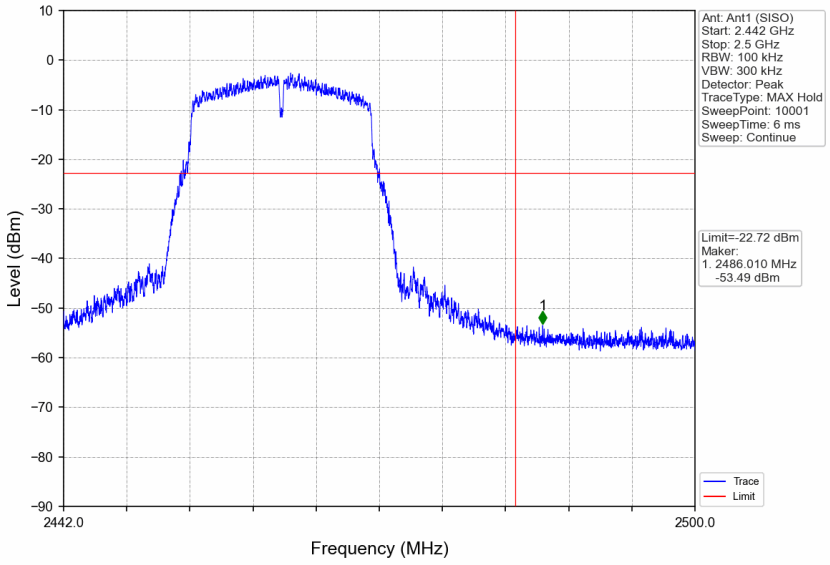

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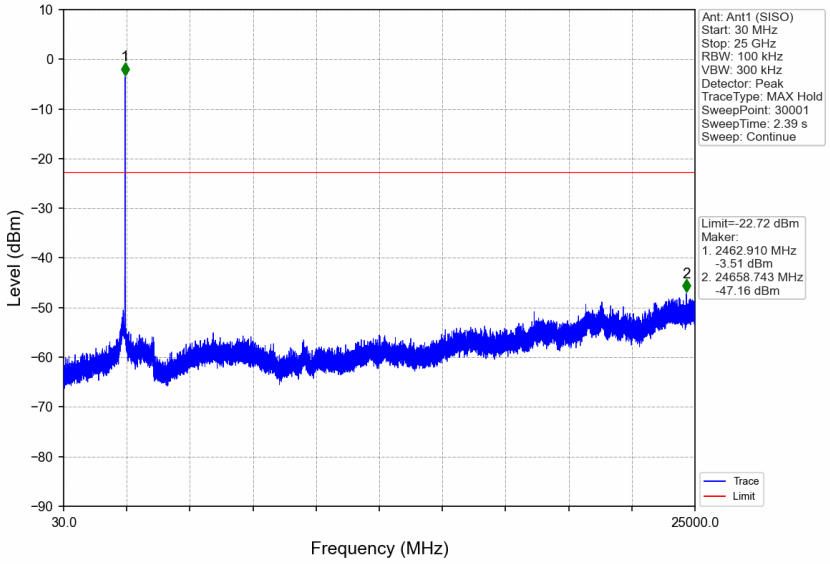

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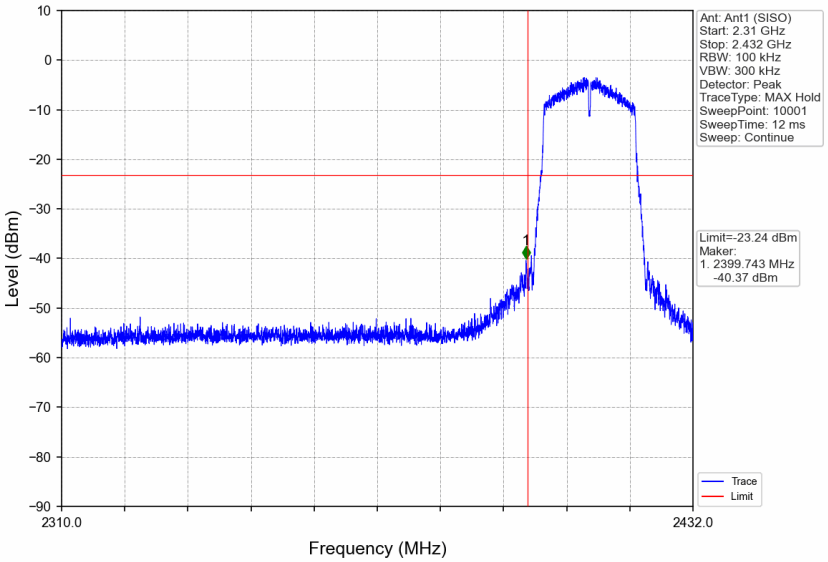
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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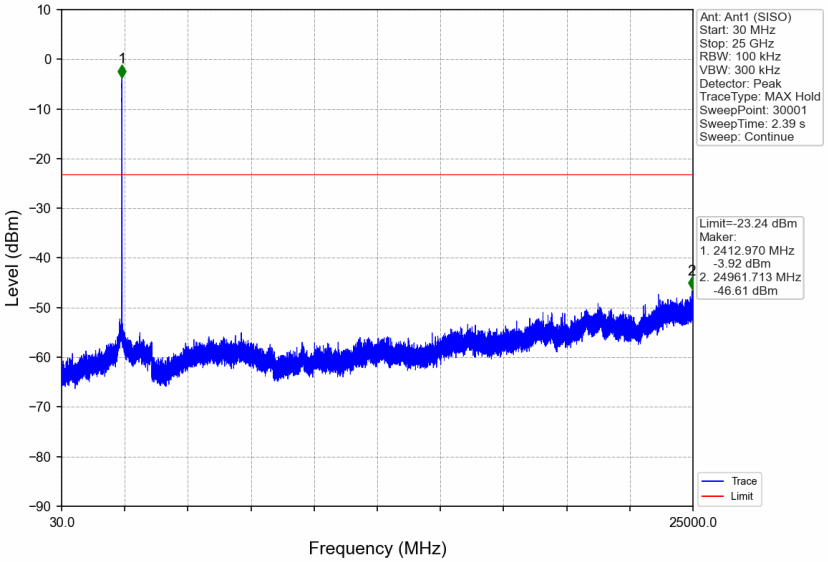

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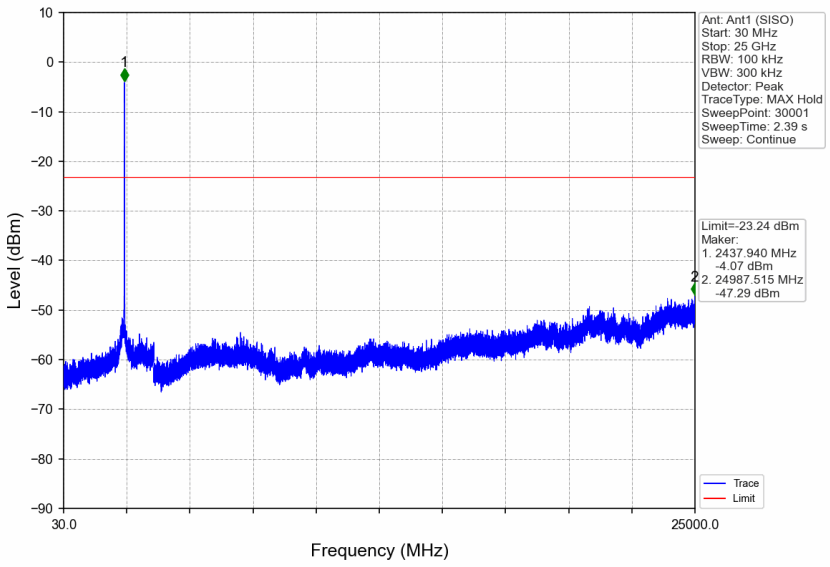
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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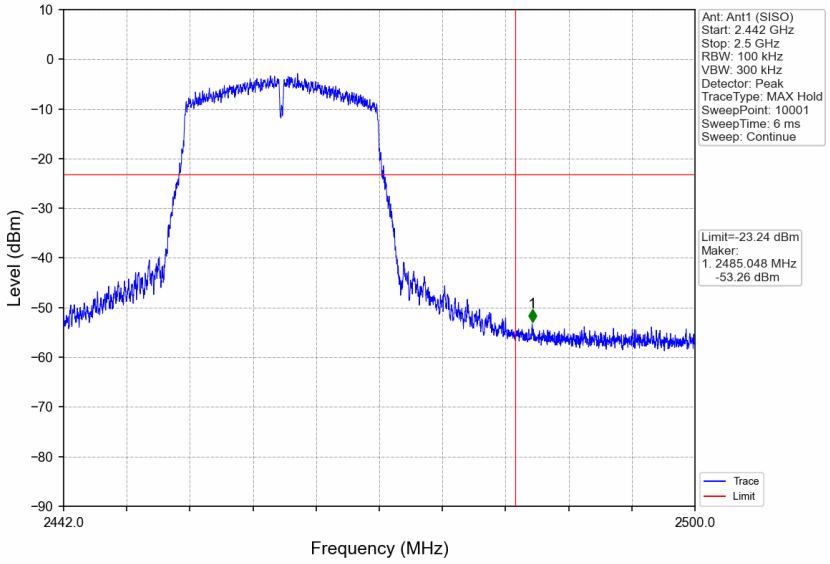

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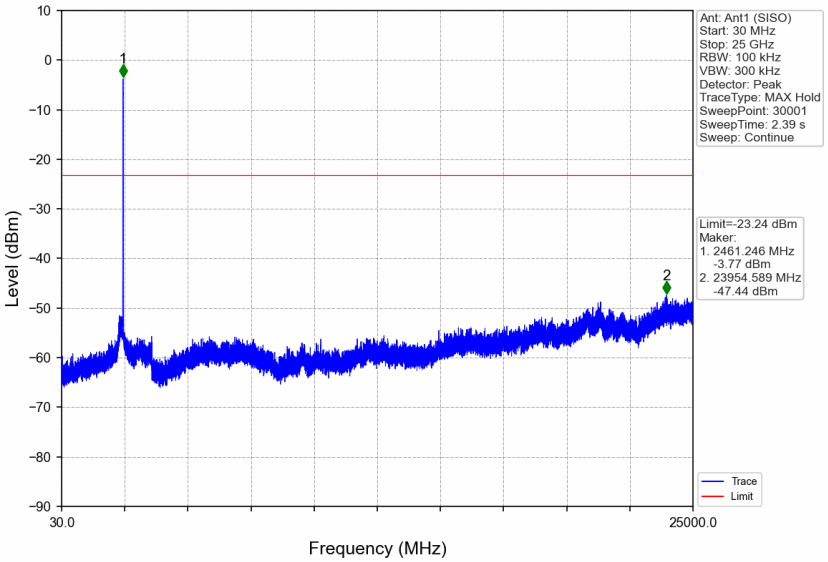
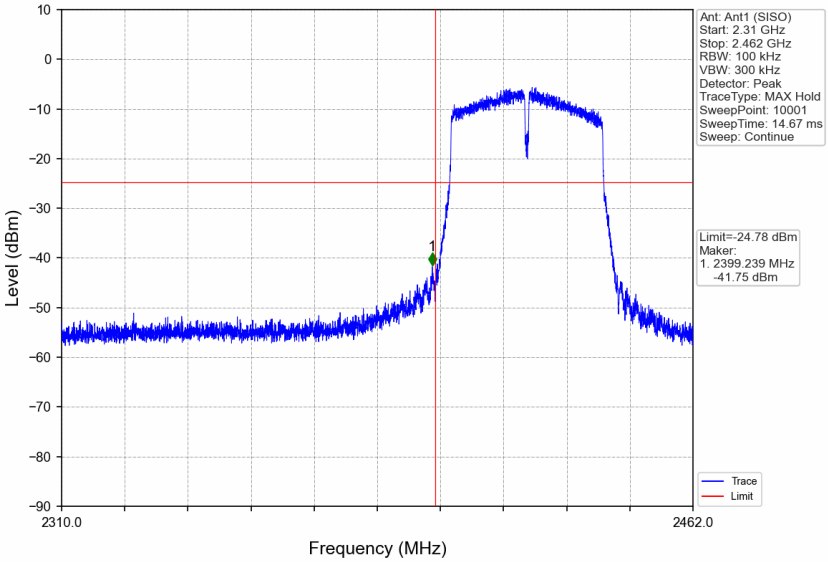
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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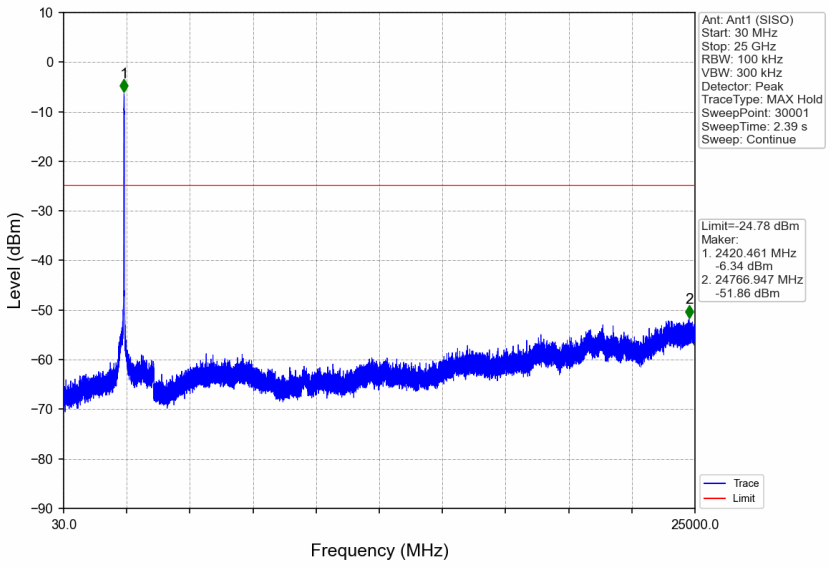
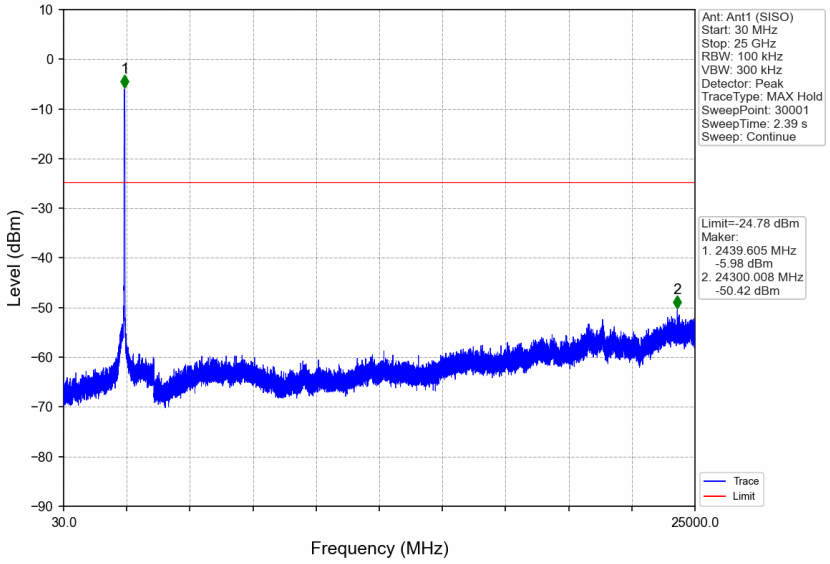
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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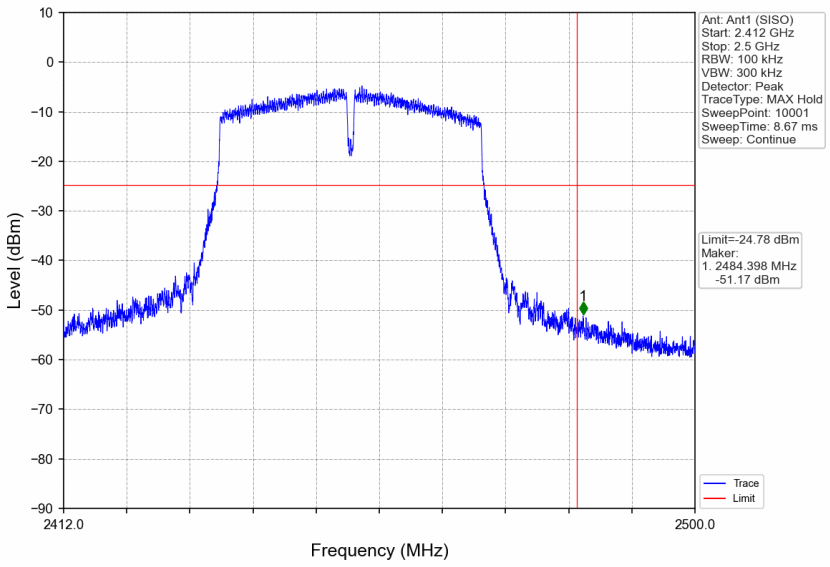
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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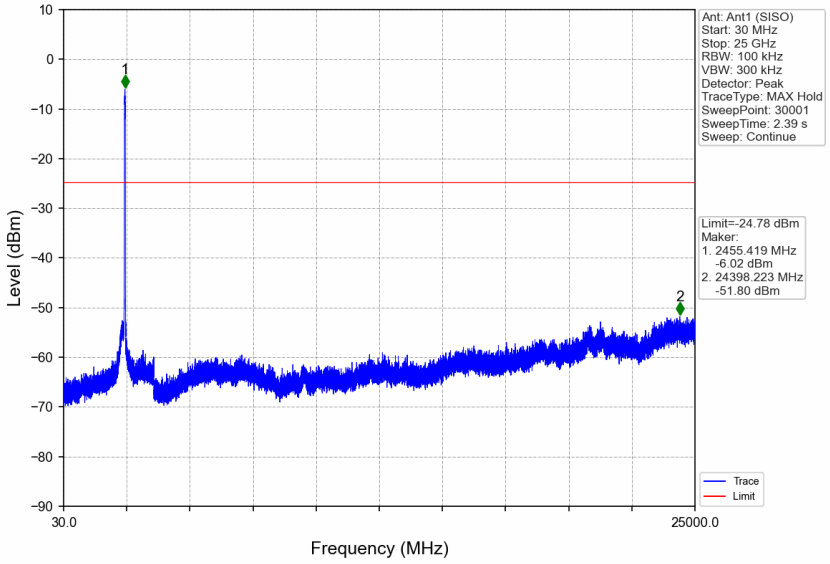

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