10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

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	1.683	16.823	10.00	10.00	0.02
		2437	1.683	16.823	10.00	10.00	0.02
		2462	1.683	16.823	10.00	10.00	0.02
802.11g	SISO	2412	1.393	13.977	9.97	10.01	0.02
		2437	1.393	13.976	9.97	10.01	0.02
		2462	1.393	13.977	9.97	10.01	0.02
802.11n (HT20)	SISO	2412	1.300	13.057	9.96	10.02	0.03
		2437	1.300	13.057	9.96	10.02	0.03
		2462	1.300	13.057	9.96	10.02	0.03

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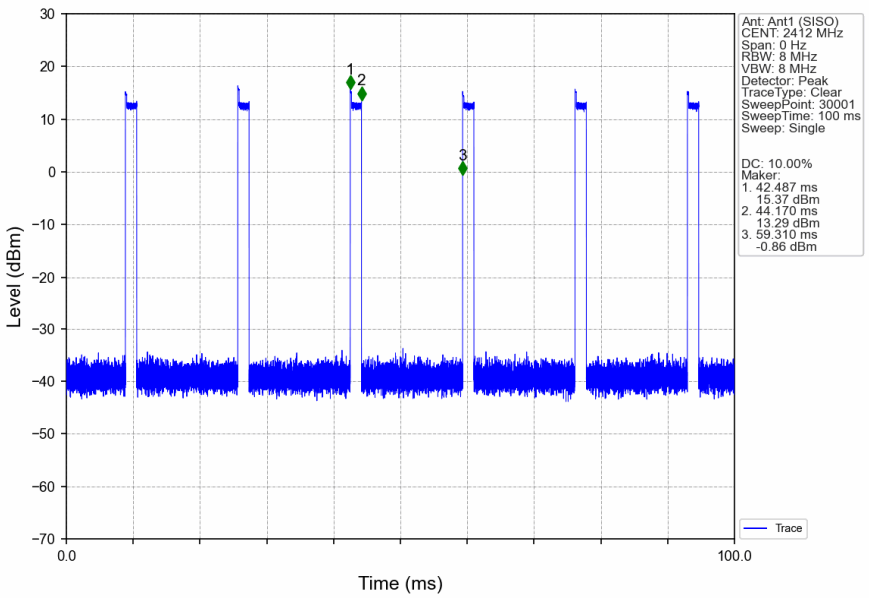
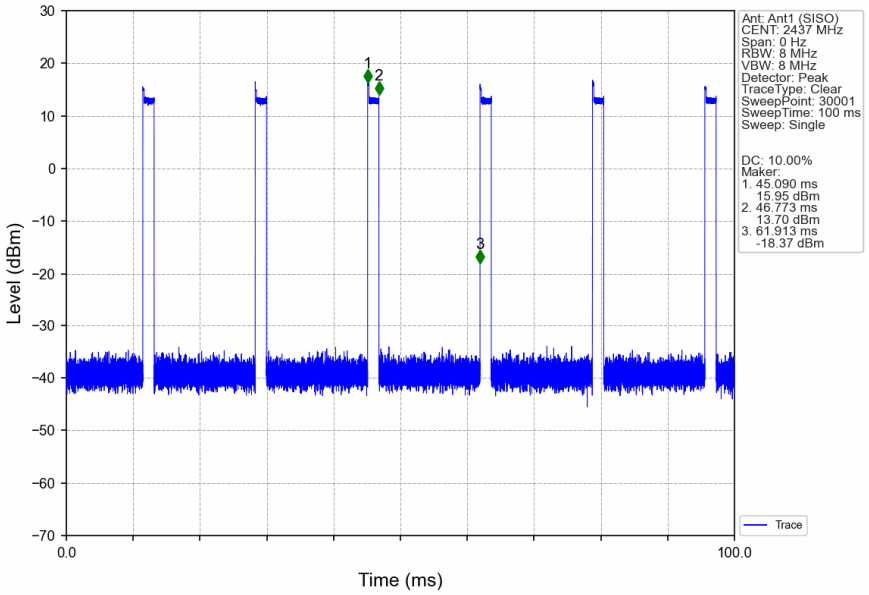
1.2 Test Graph

1.2.1 Ant1

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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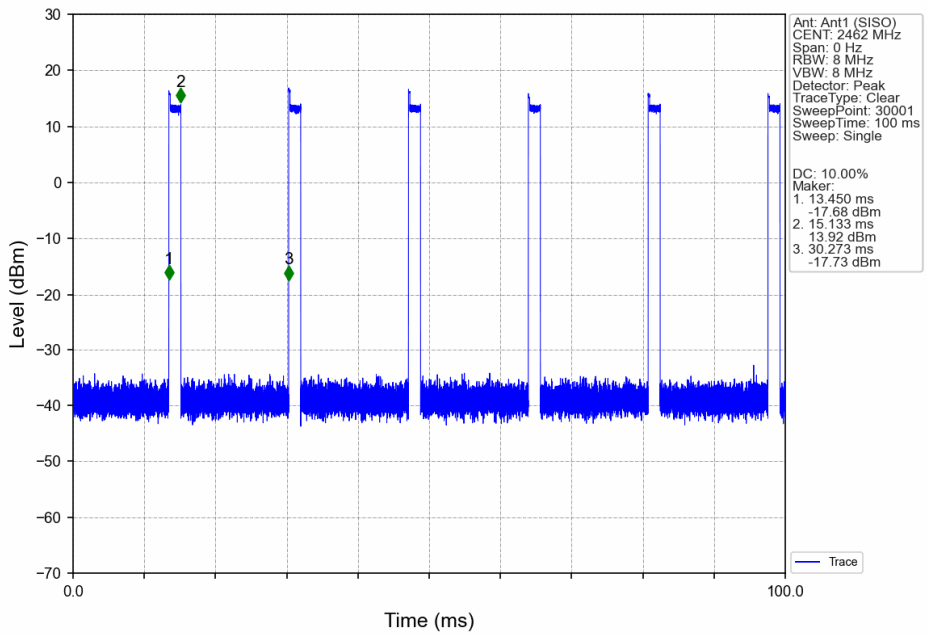
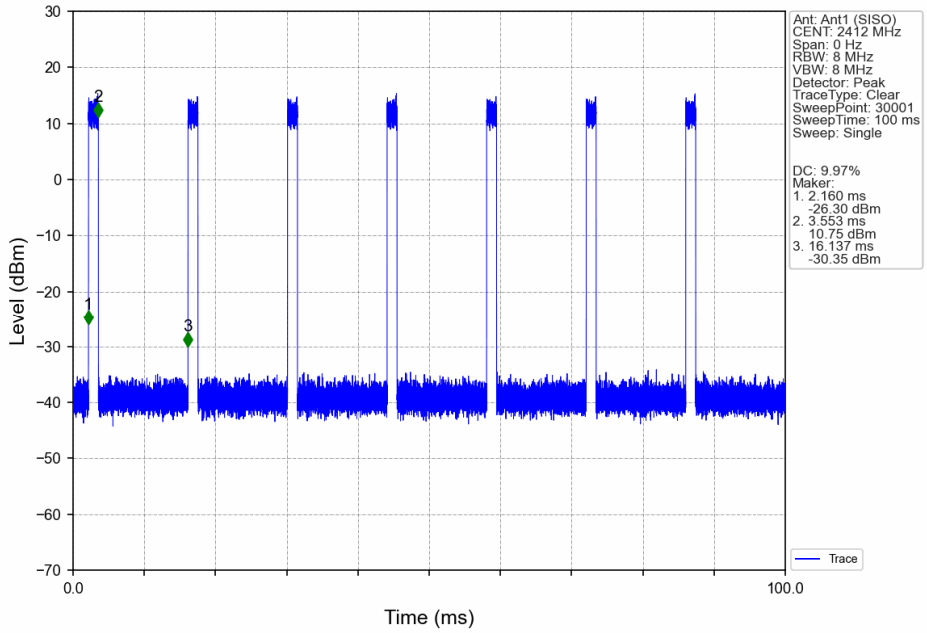
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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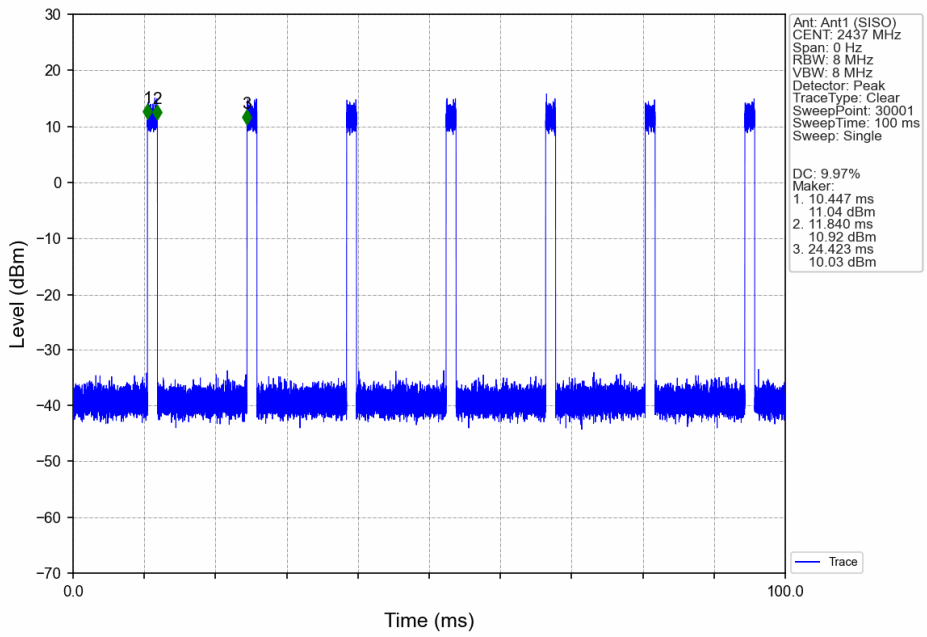
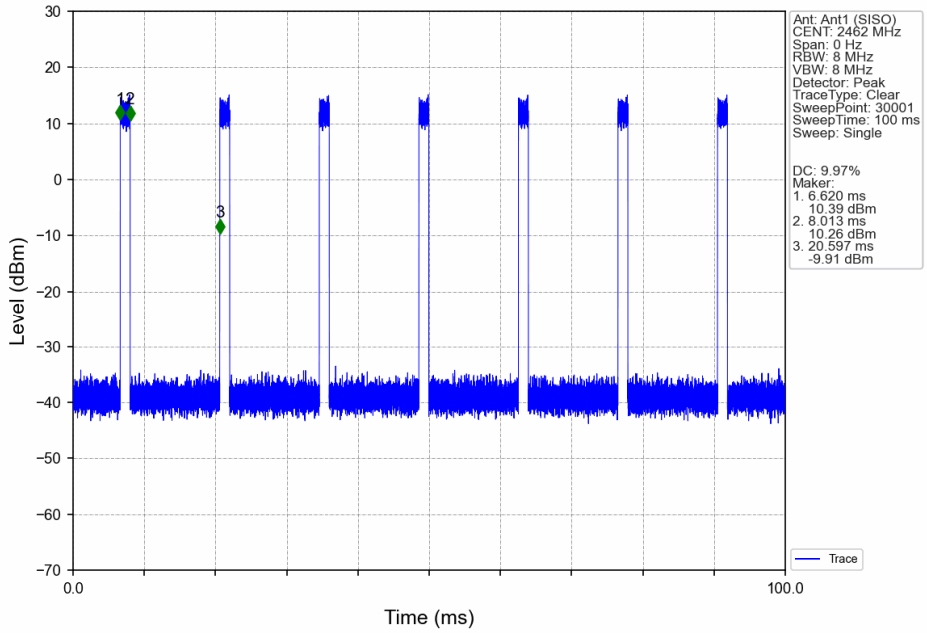
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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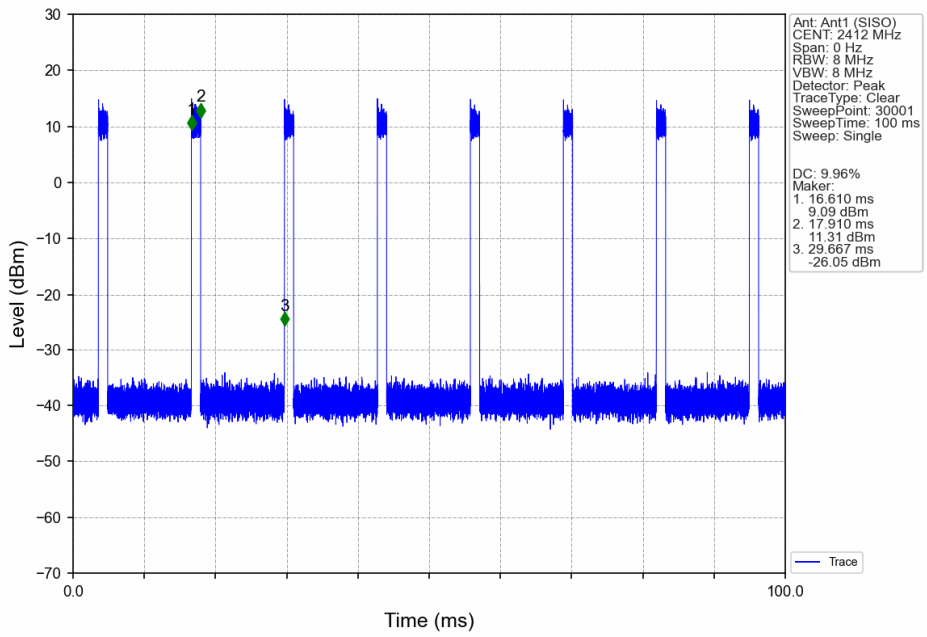
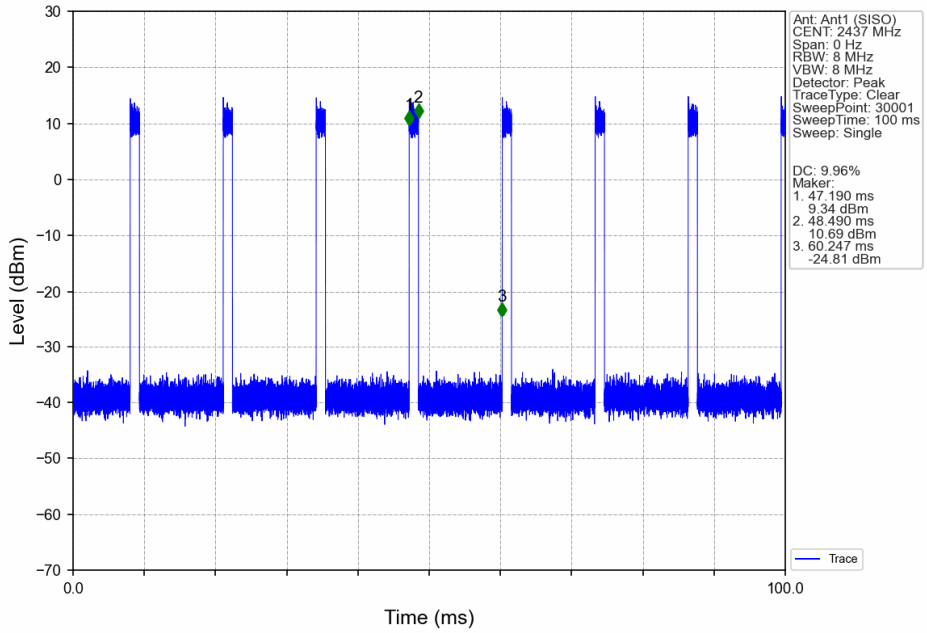
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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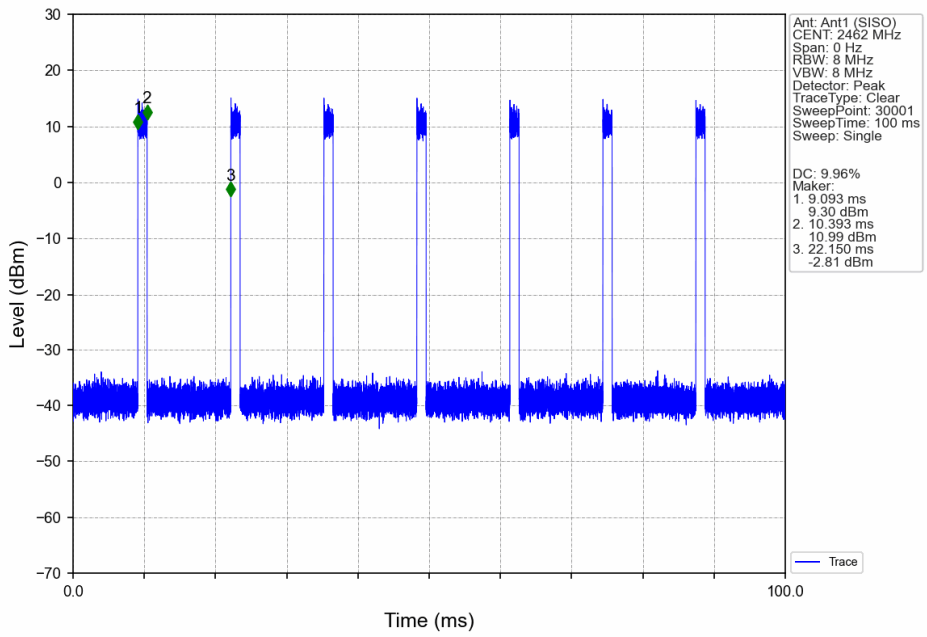
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.600	>=0.5	Pass
		2437	1	9.665	>=0.5	Pass
		2462	1	8.589	>=0.5	Pass
802.11g	SISO	2412	1	17.287	>=0.5	Pass
		2437	1	17.370	>=0.5	Pass
		2462	1	17.527	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	18.319	>=0.5	Pass
		2437	1	18.291	>=0.5	Pass
		2462	1	18.301	>=0.5	Pass

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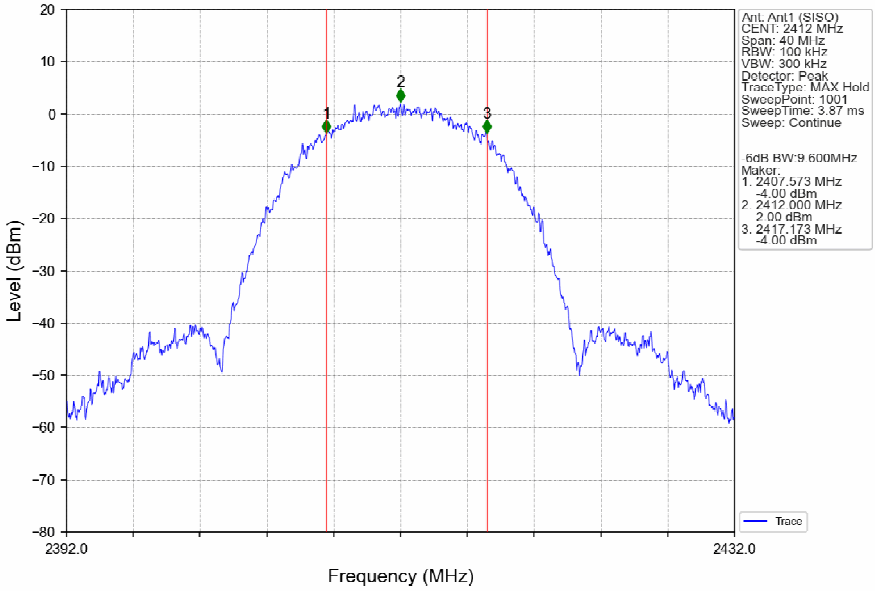
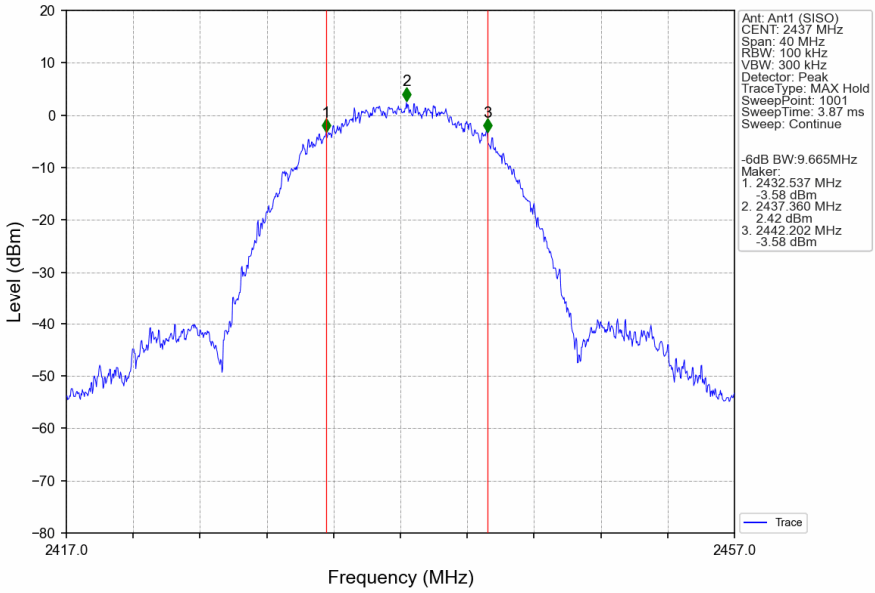
2.2 Test Graph

2.2.1 6dB BW

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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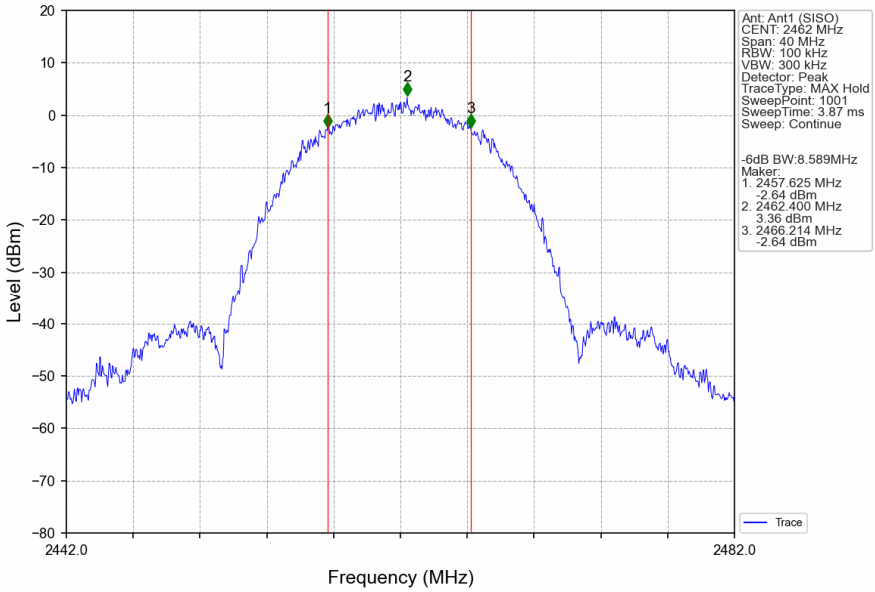
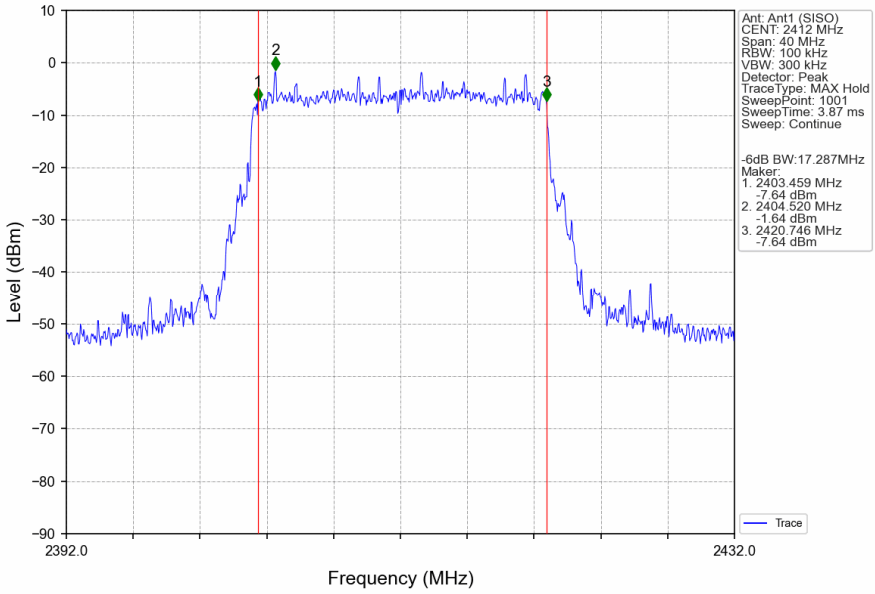
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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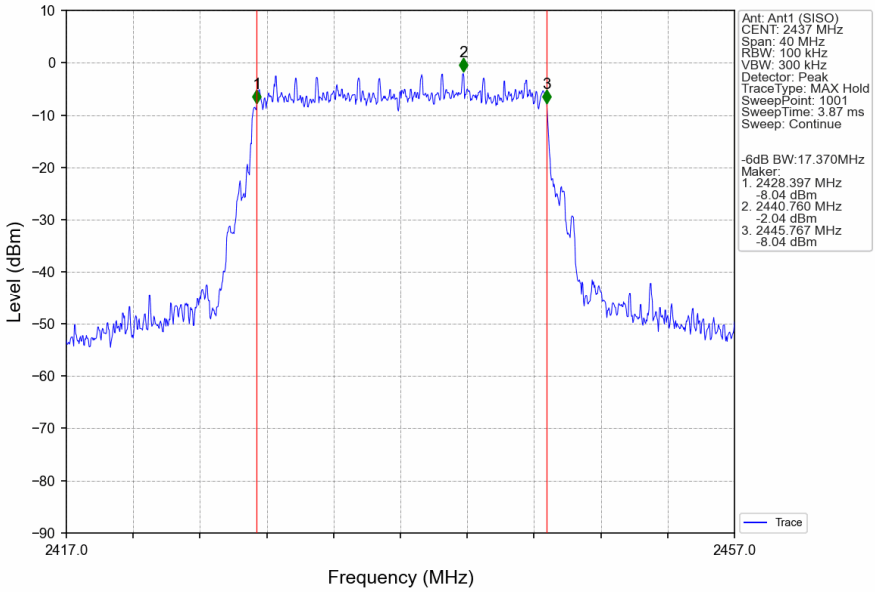
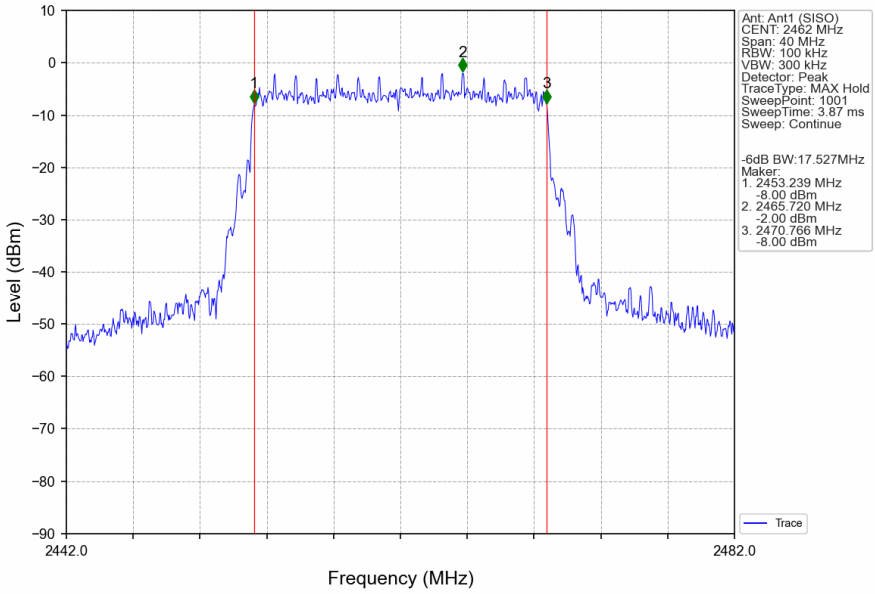
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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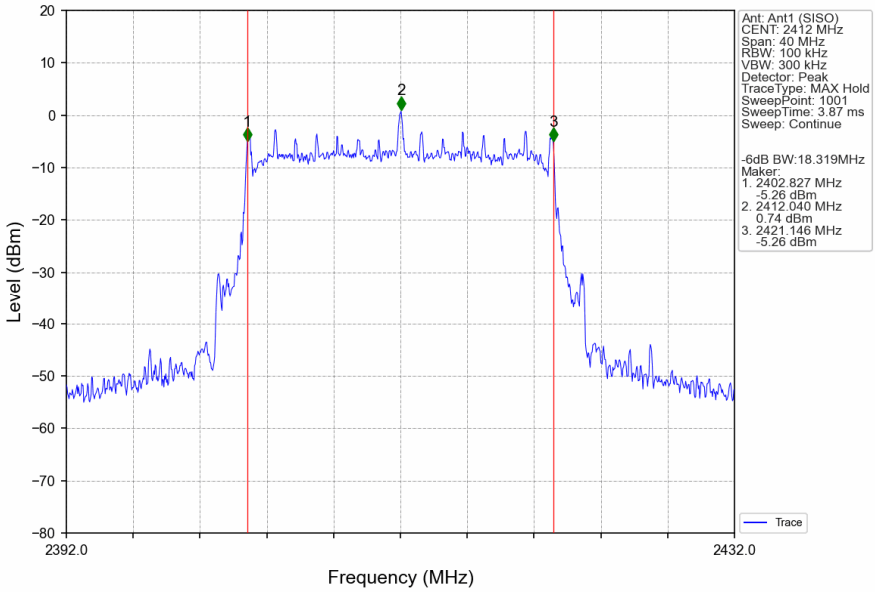
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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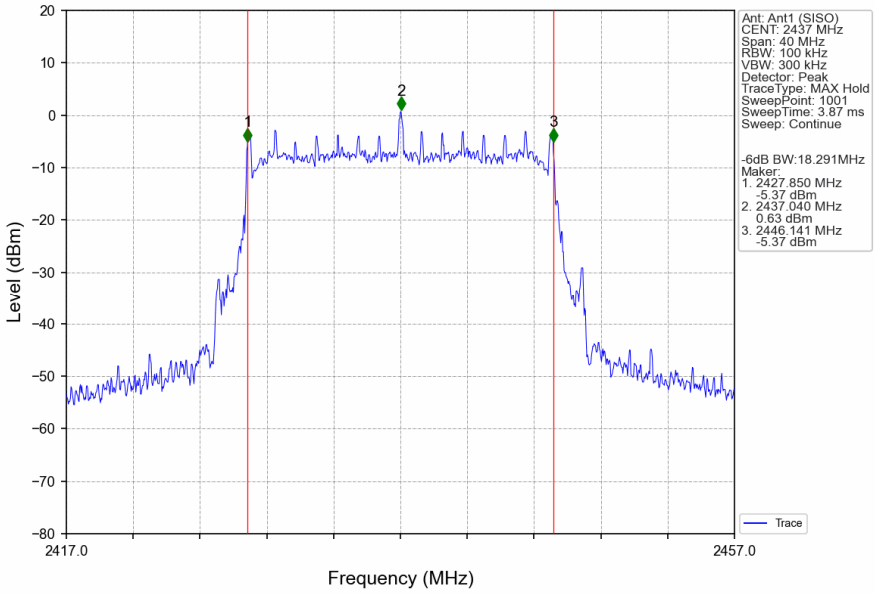

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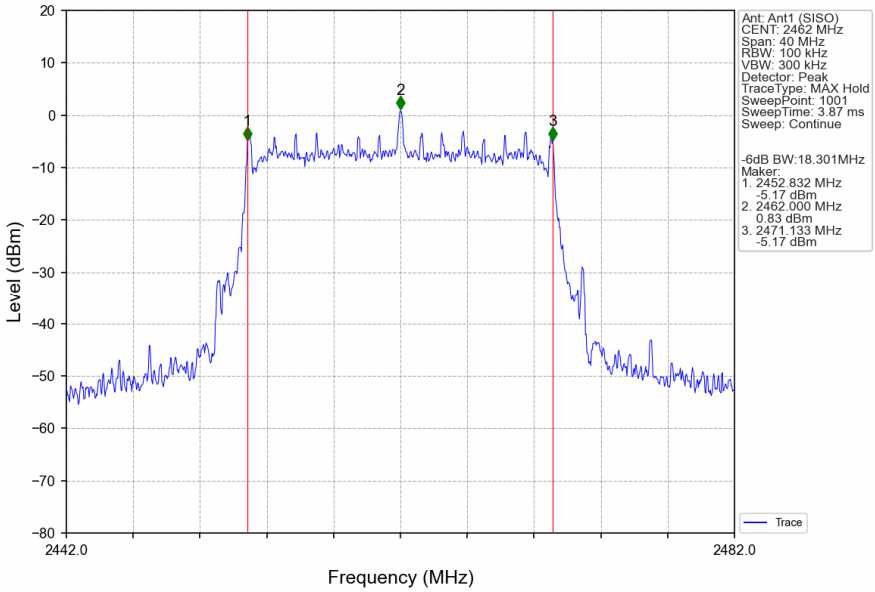
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	15.26	<=30	Pass
		2437	15.69	<=30	Pass
		2462	15.66	<=30	Pass
802.11g	SISO	2412	16.71	<=30	Pass
		2437	16.52	<=30	Pass
		2462	16.96	<=30	Pass
802.11n (HT20)	SISO	2412	15.91	<=30	Pass
		2437	15.70	<=30	Pass
		2462	16.02	<=30	Pass
Note1: Antenna Gain: Ant1: 0dBi;					

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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-11.76	<=8	Pass
		2437	-12.51	<=8	Pass
		2462	-11.51	<=8	Pass
802.11g	SISO	2412	-17.35	<=8	Pass
		2437	-17.12	<=8	Pass
		2462	-16.53	<=8	Pass
802.11n (HT20)	SISO	2412	-17.83	<=8	Pass
		2437	-17.15	<=8	Pass
		2462	-18.14	<=8	Pass
Note1: Antenna Gain: Ant1: 0dBi;					

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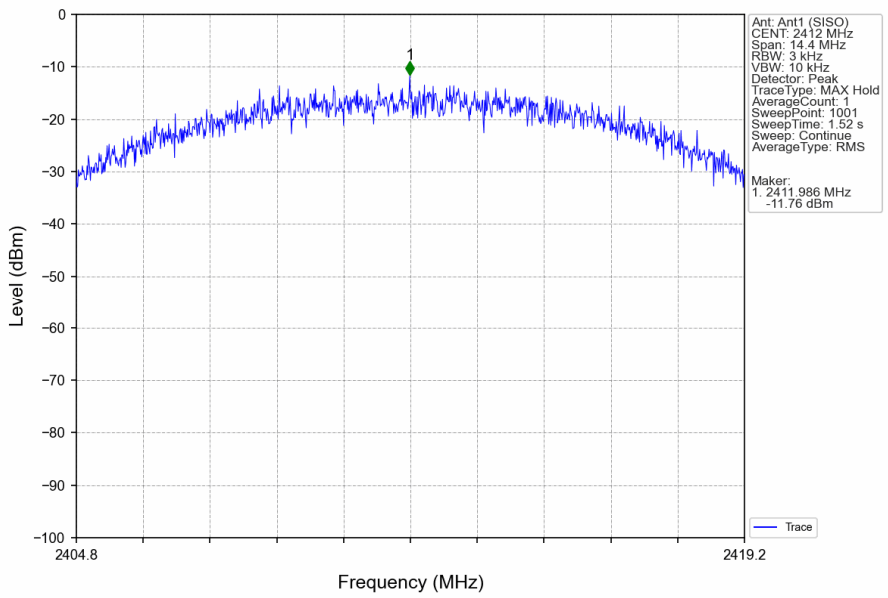
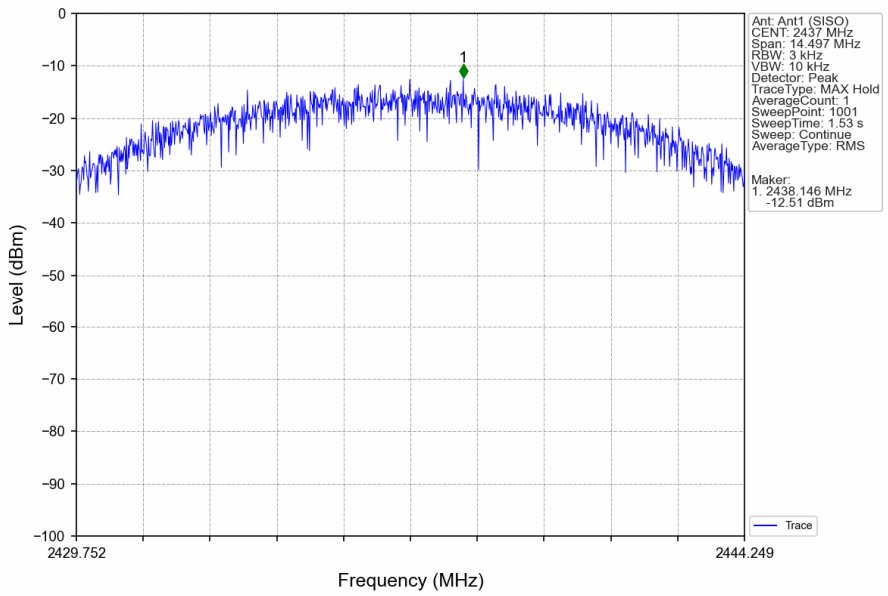
4.2 Test Graph

4.2.1 PSD

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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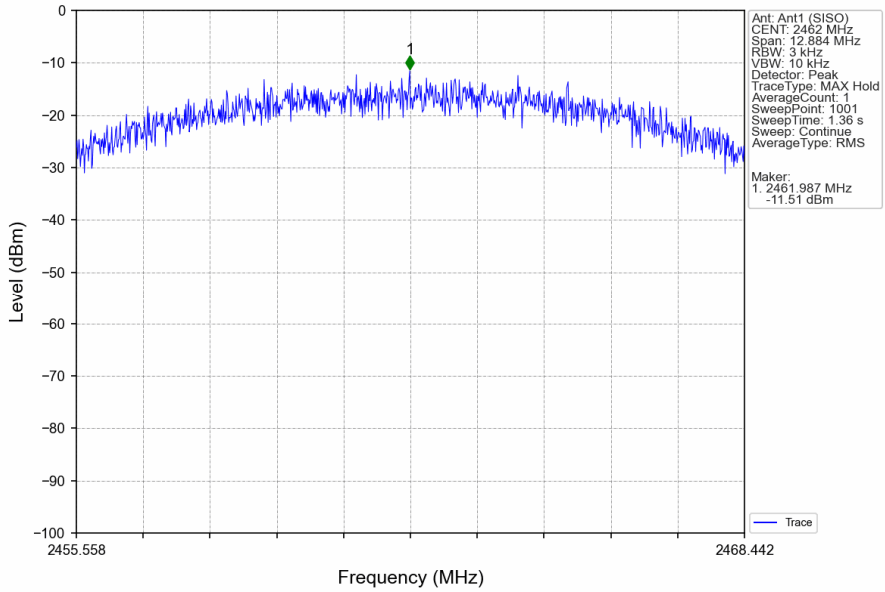
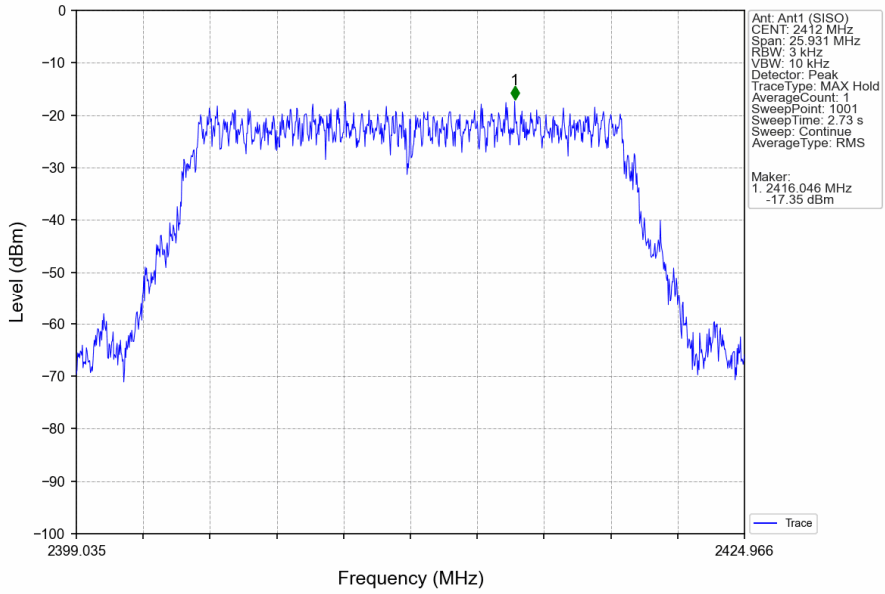
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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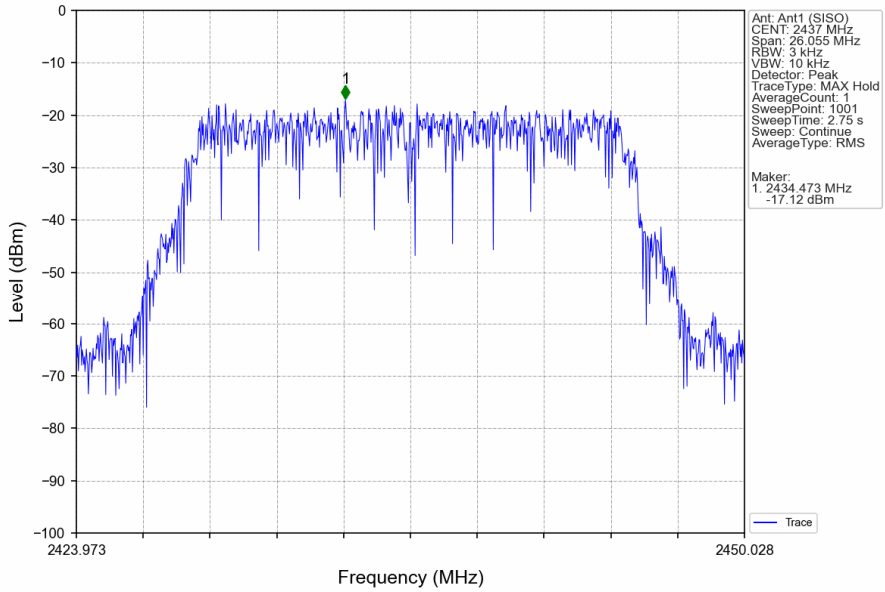
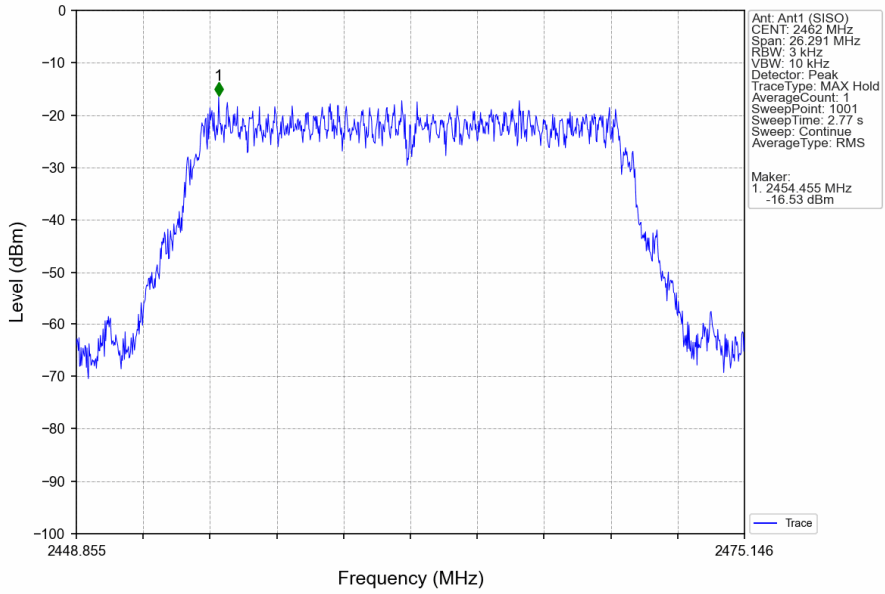
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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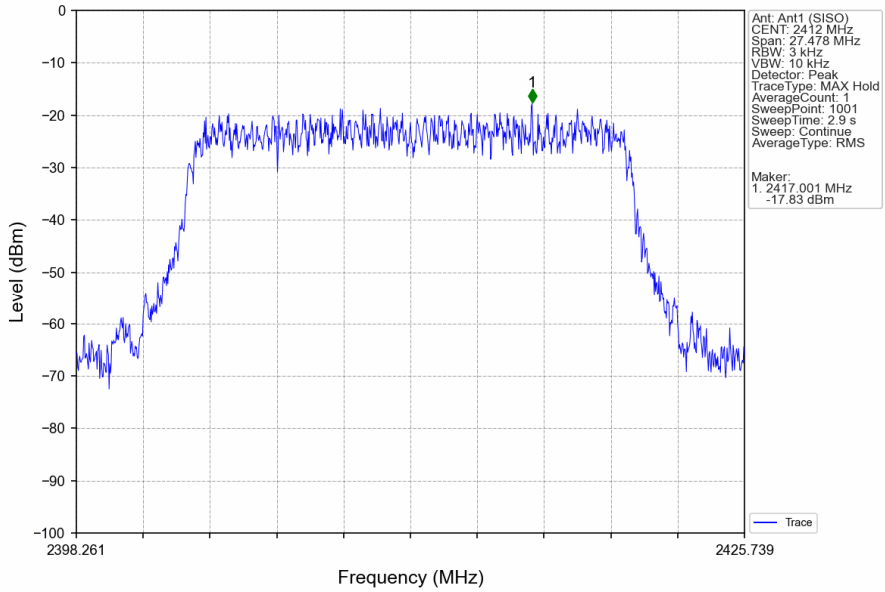
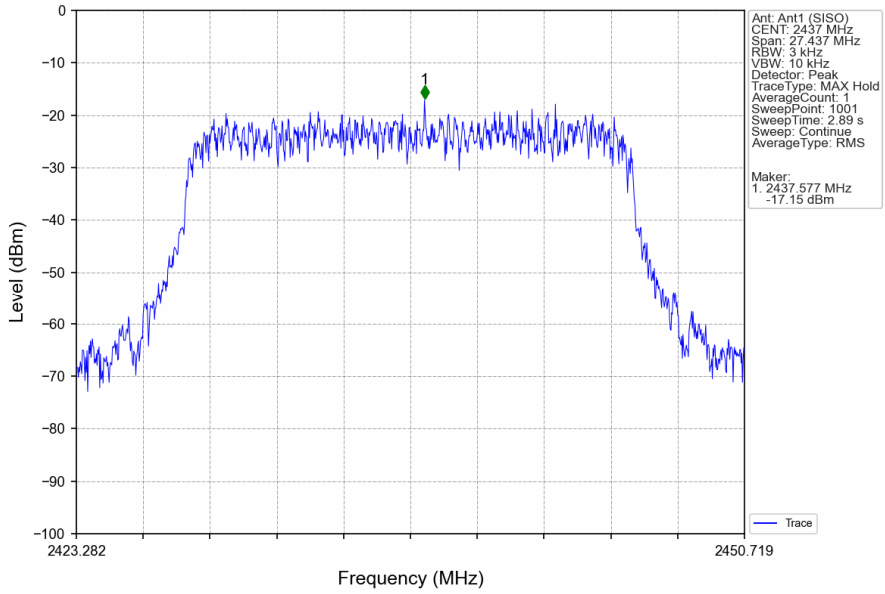
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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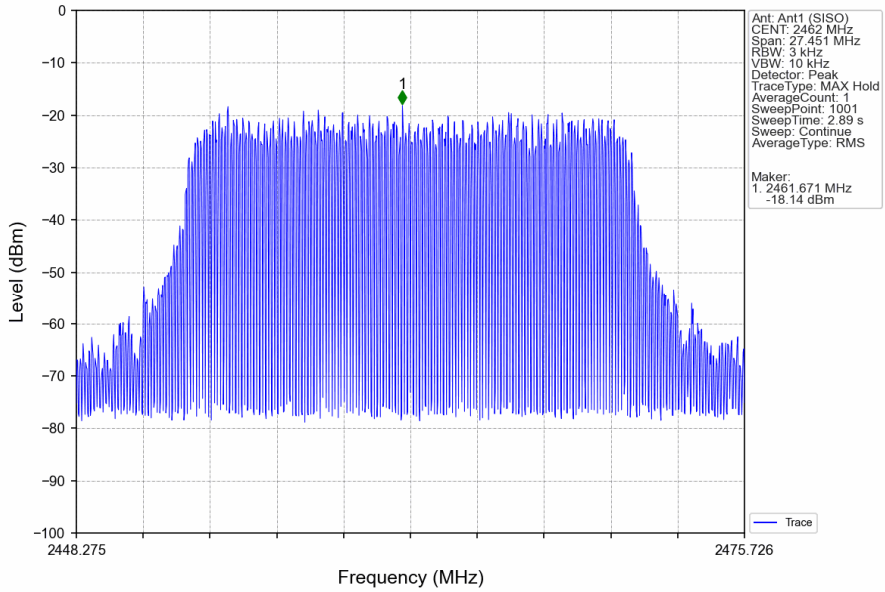
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	1.67
		2437	1	3.05
		2462	1	3.17
802.11g	SISO	2412	1	-1.99
		2437	1	-2.02
		2462	1	-1.98
802.11n (HT20)	SISO	2412	1	0.60
		2437	1	0.63
		2462	1	0.77
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.				

5.1.2 CSE and Band Edges

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.17	-16.83	Pass
		2437	1	3.17	-16.83	Pass
		2462	1	3.17	-16.83	Pass
802.11g	SISO	2412	1	-1.98	-21.98	Pass
		2437	1	-1.98	-21.98	Pass
		2462	1	-1.98	-21.98	Pass
802.11n (HT20)	SISO	2412	1	0.77	-19.23	Pass
		2437	1	0.77	-19.23	Pass
		2462	1	0.77	-19.23	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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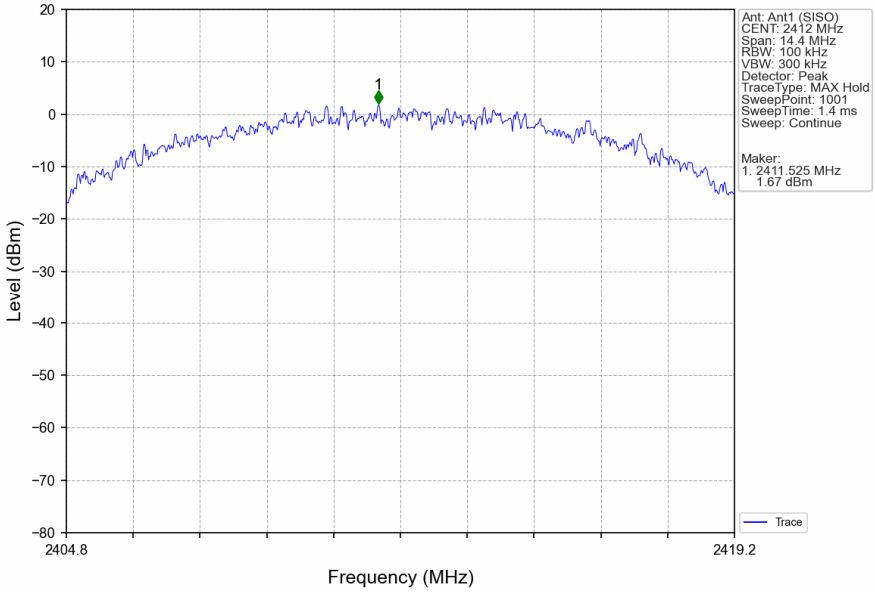
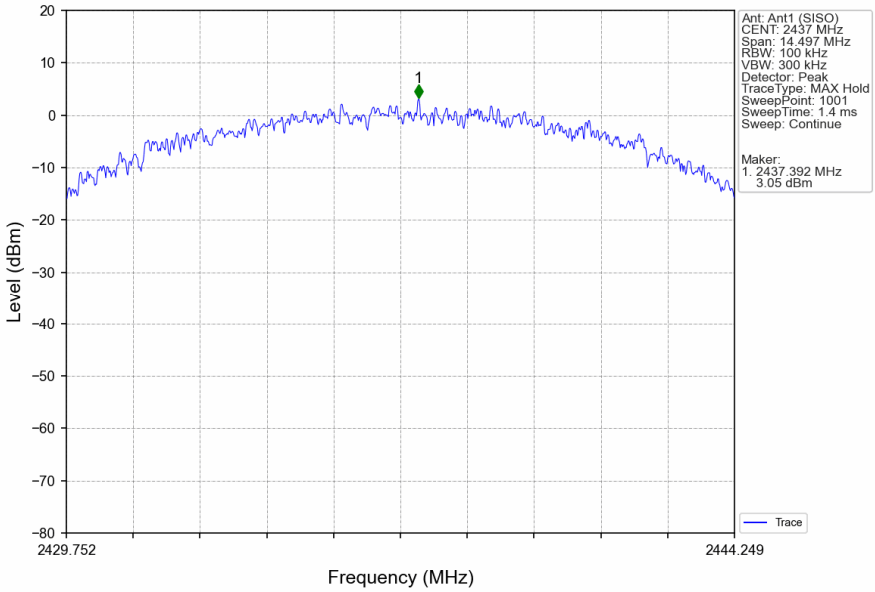
5.2 Test Graph

5.2.1 Ref

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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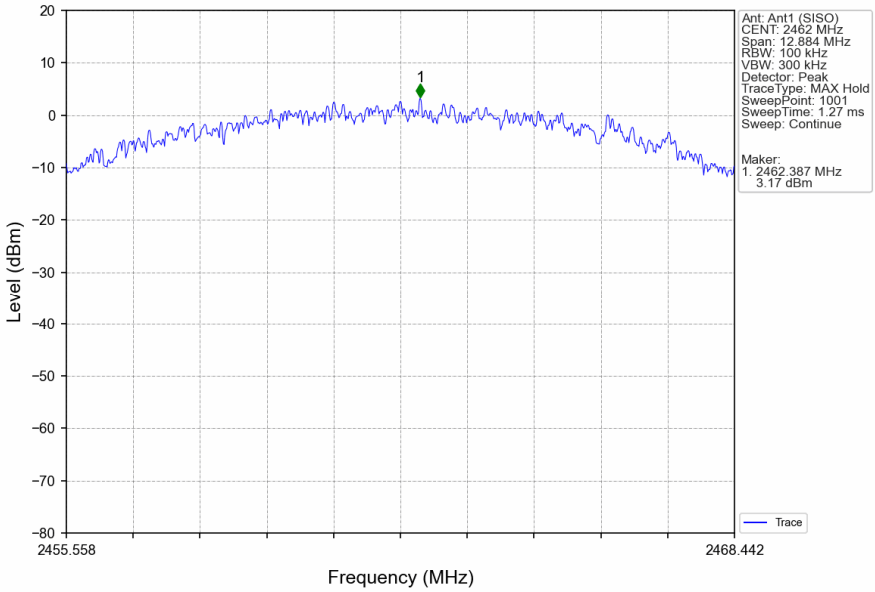
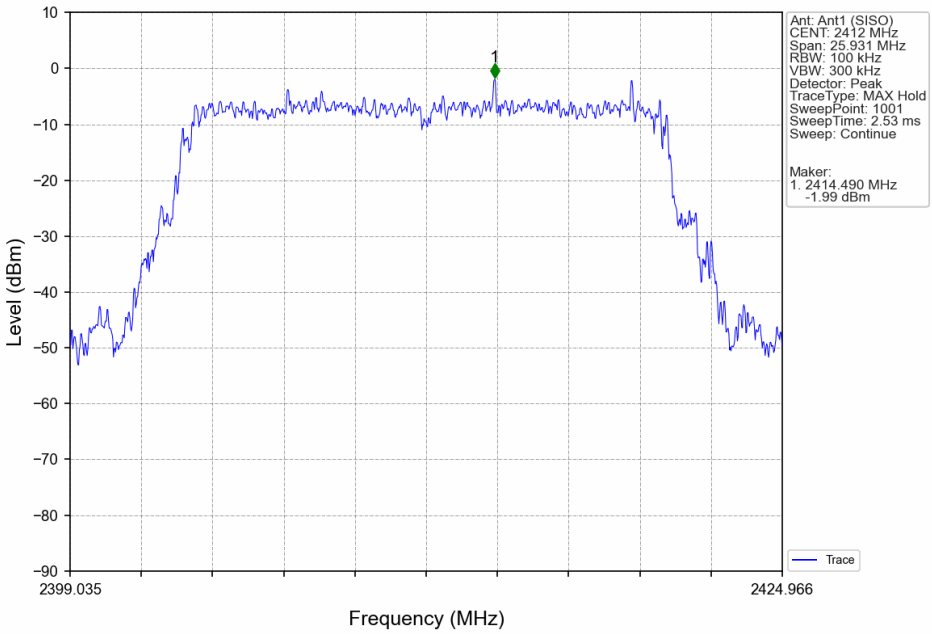
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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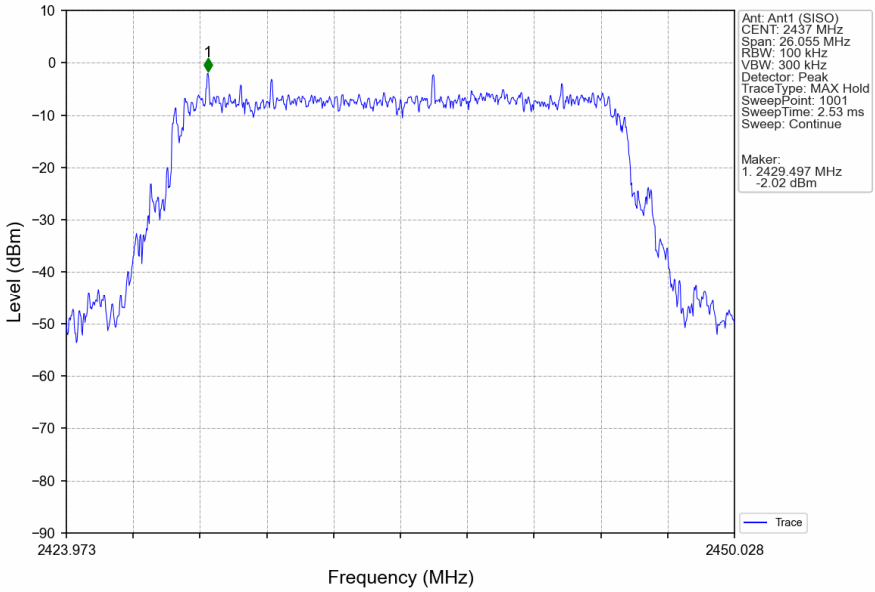
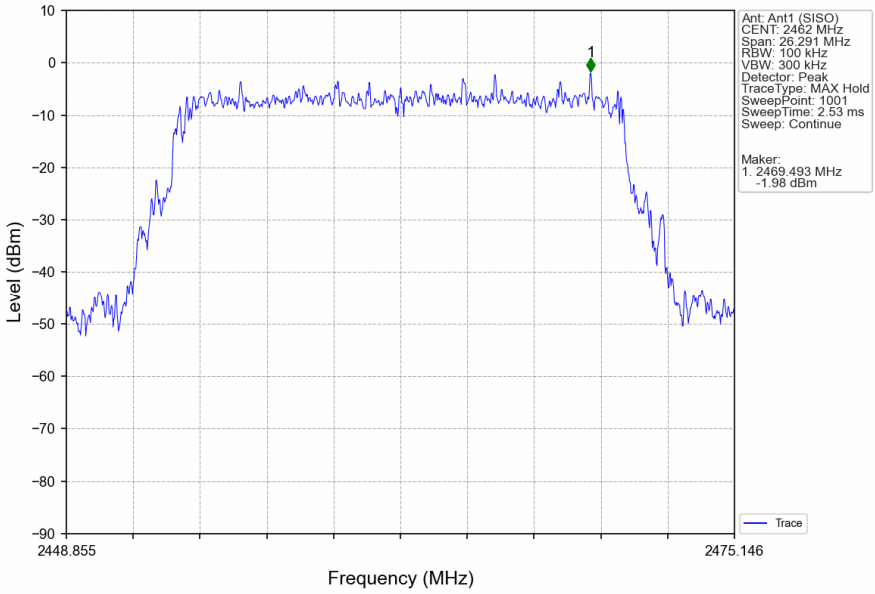


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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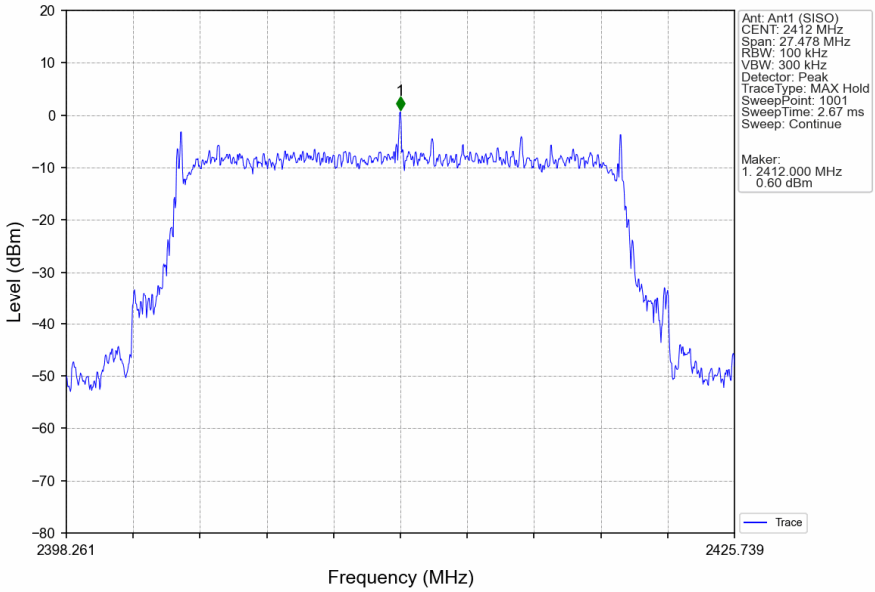
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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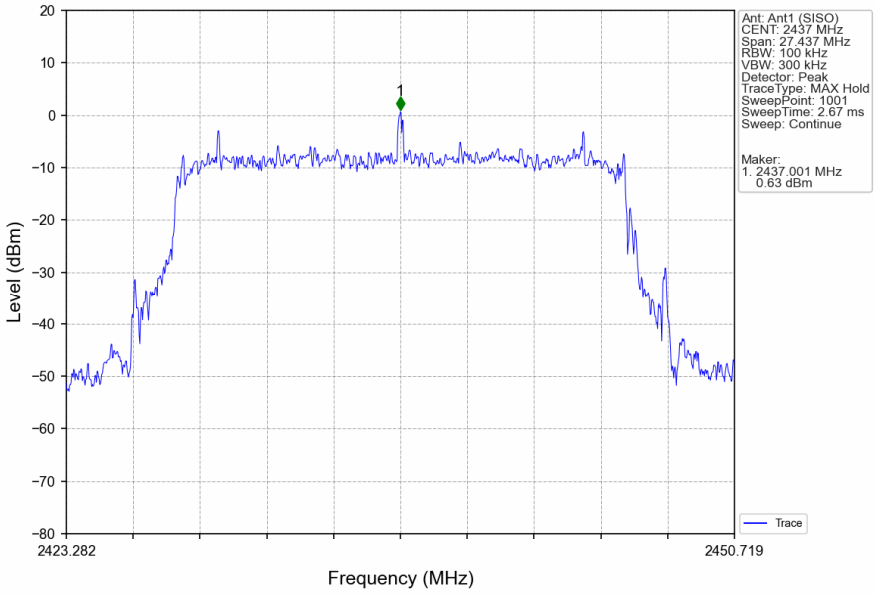

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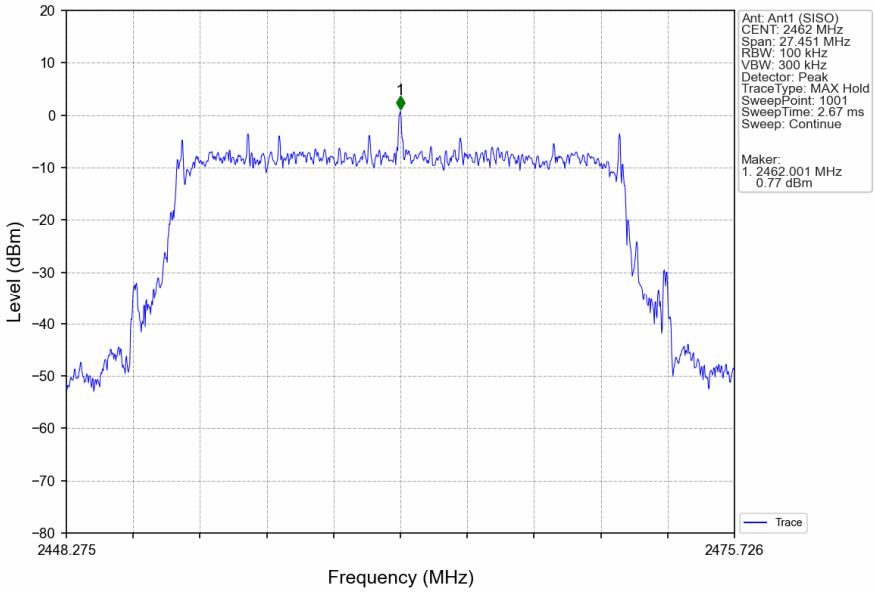

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5.2.2 CSE and Band Edges

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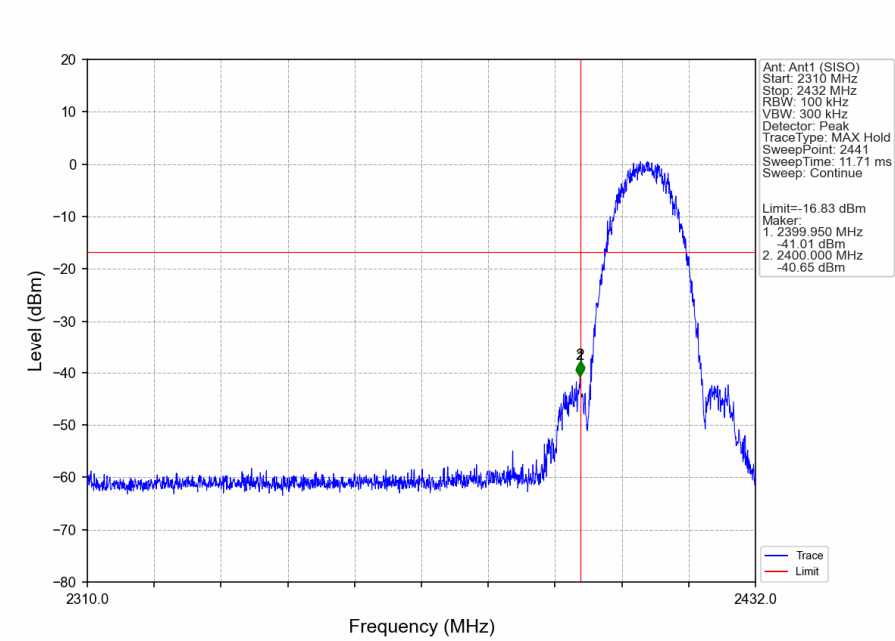
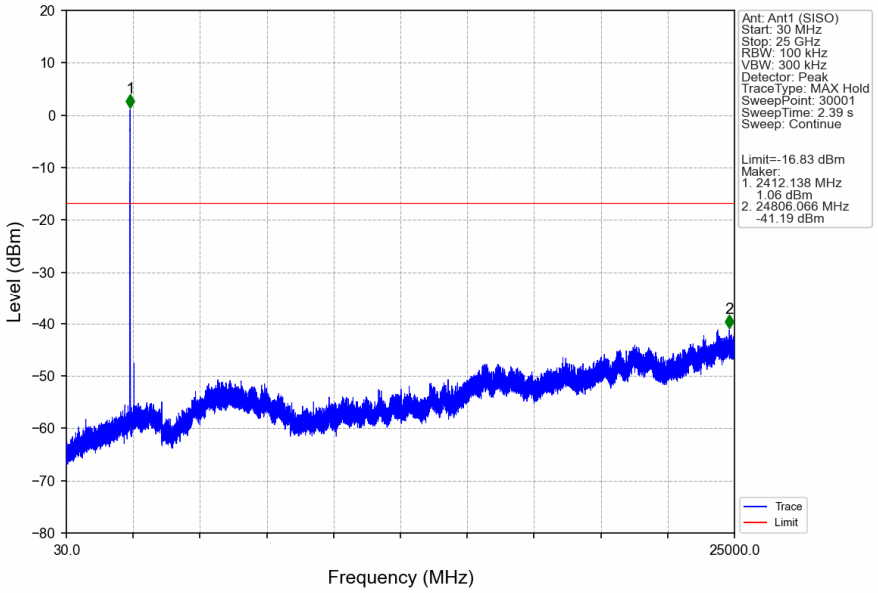


802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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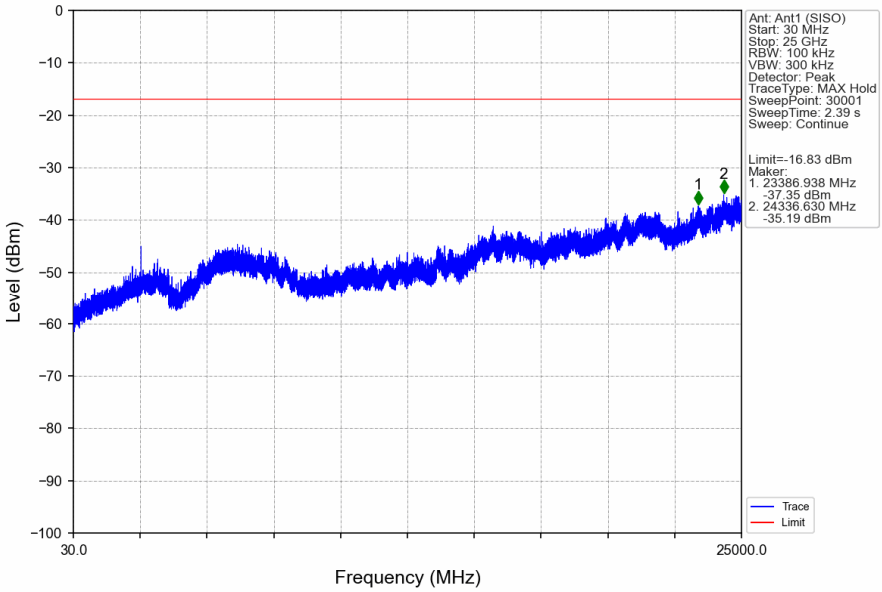
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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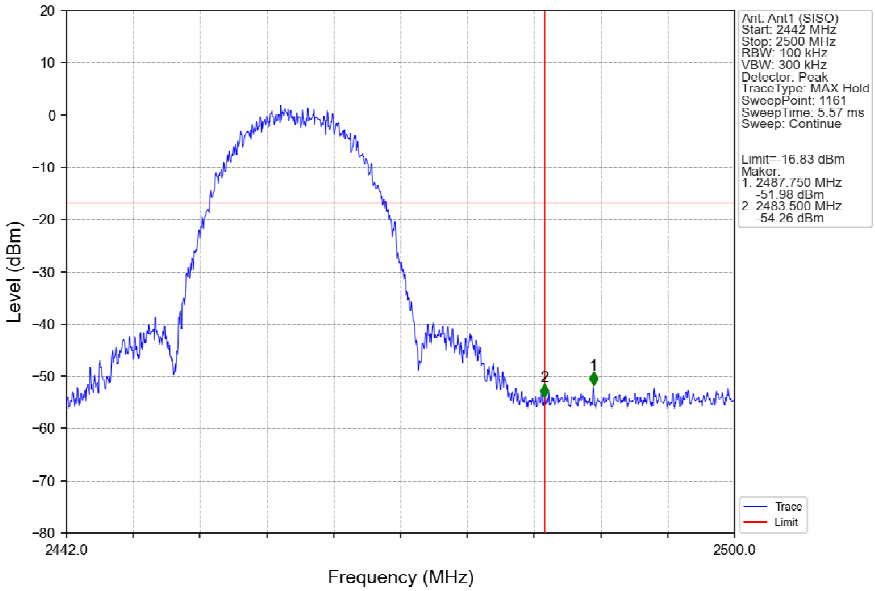

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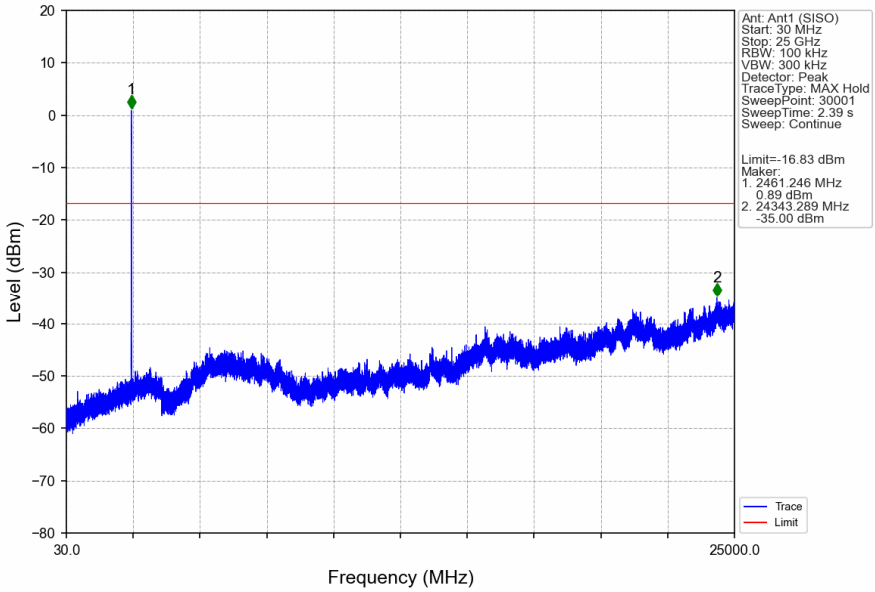
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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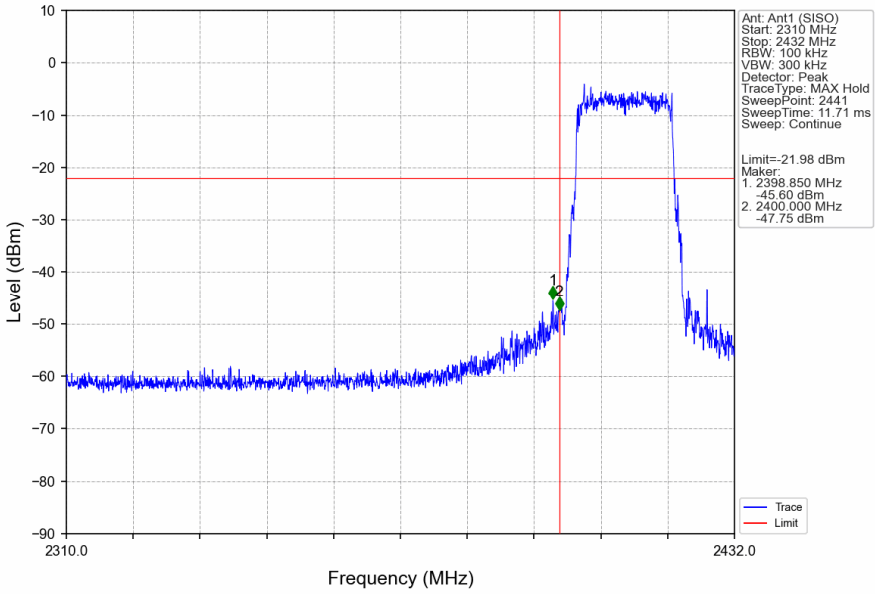

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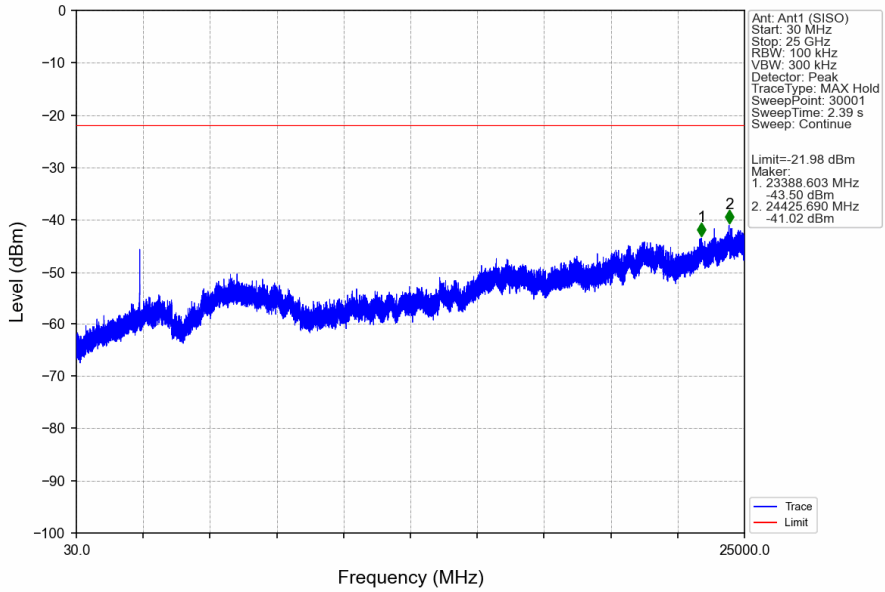
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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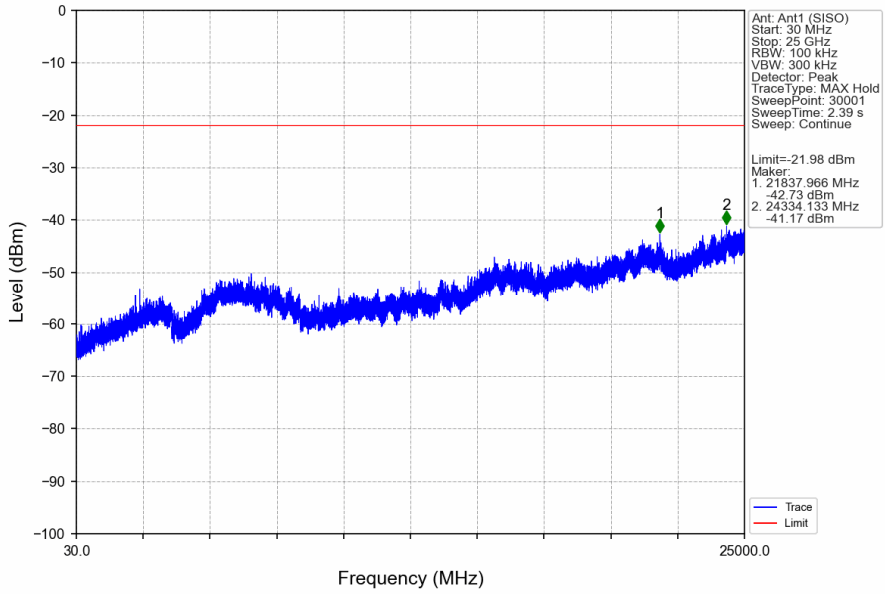

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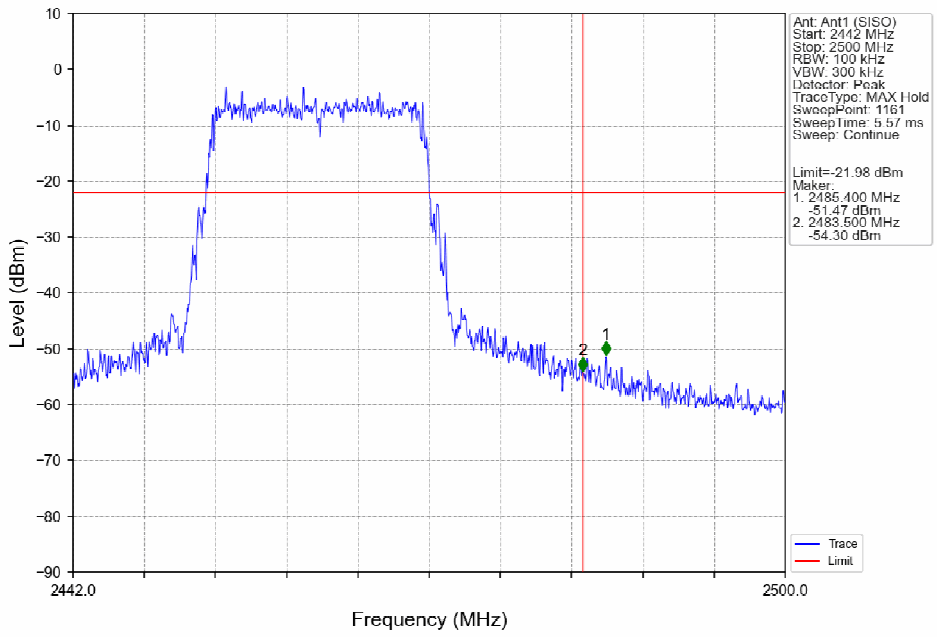
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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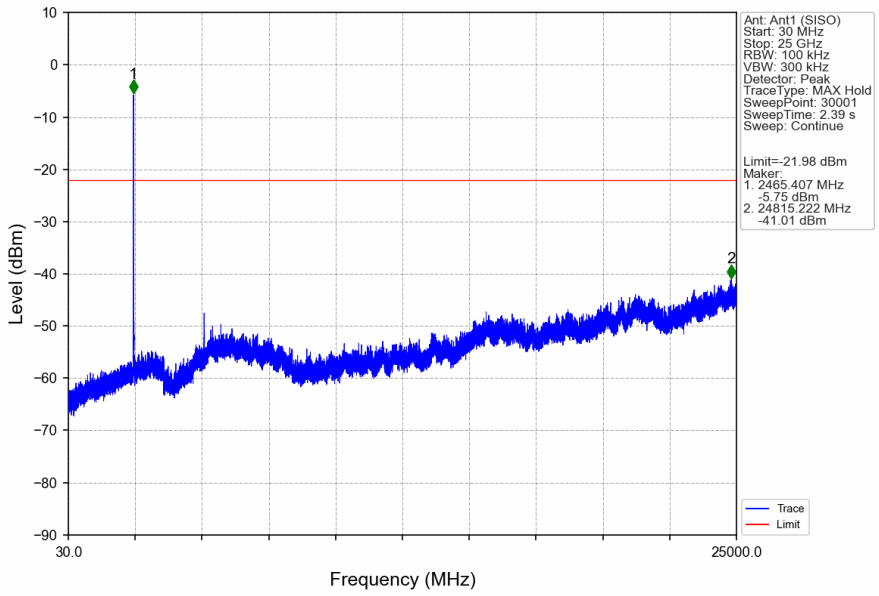

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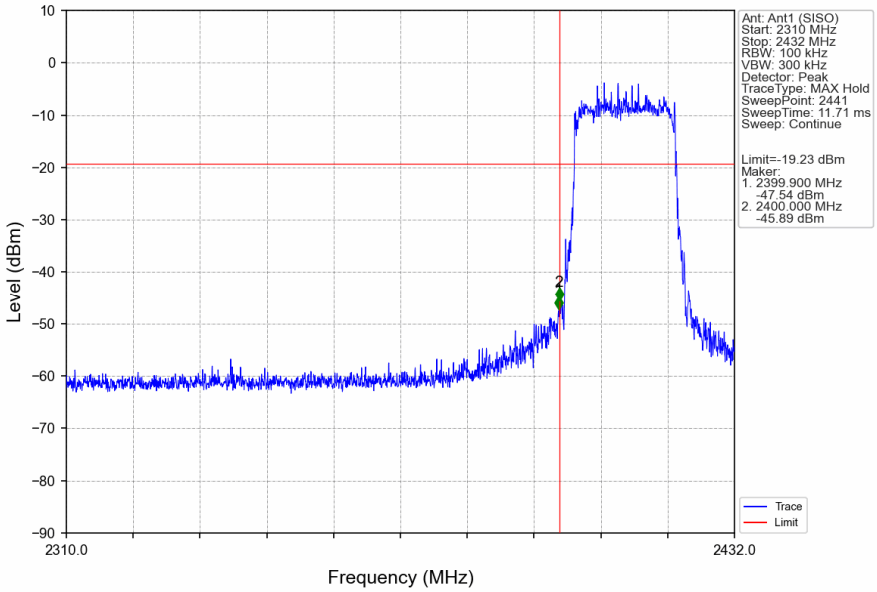
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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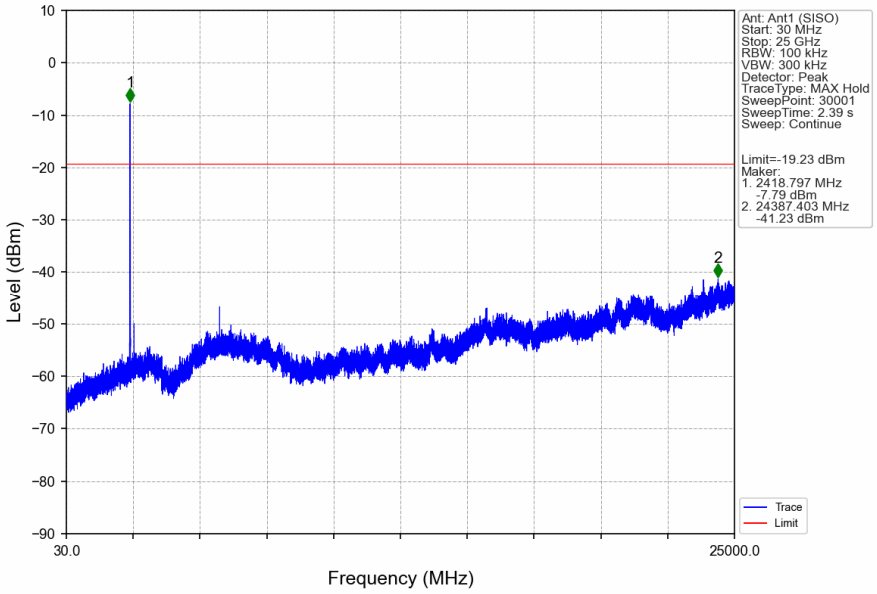

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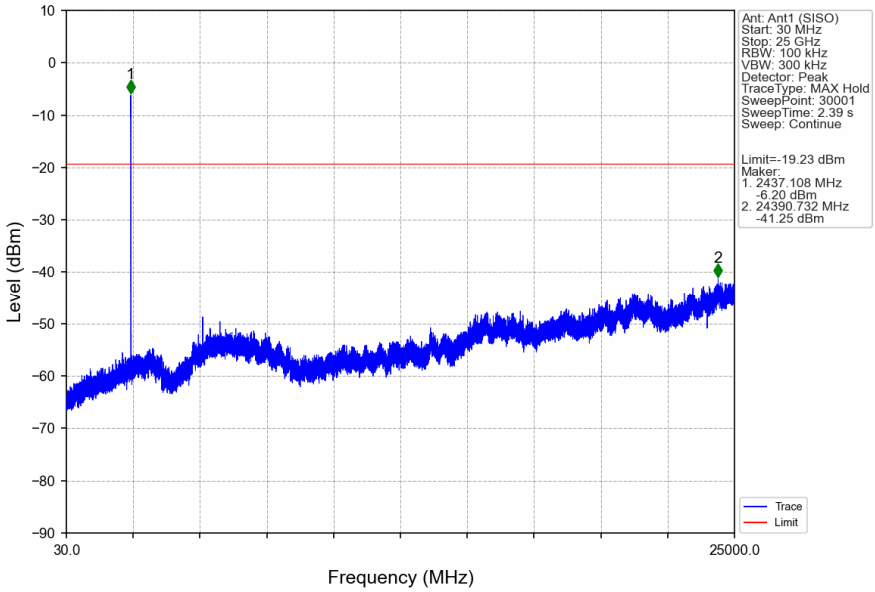
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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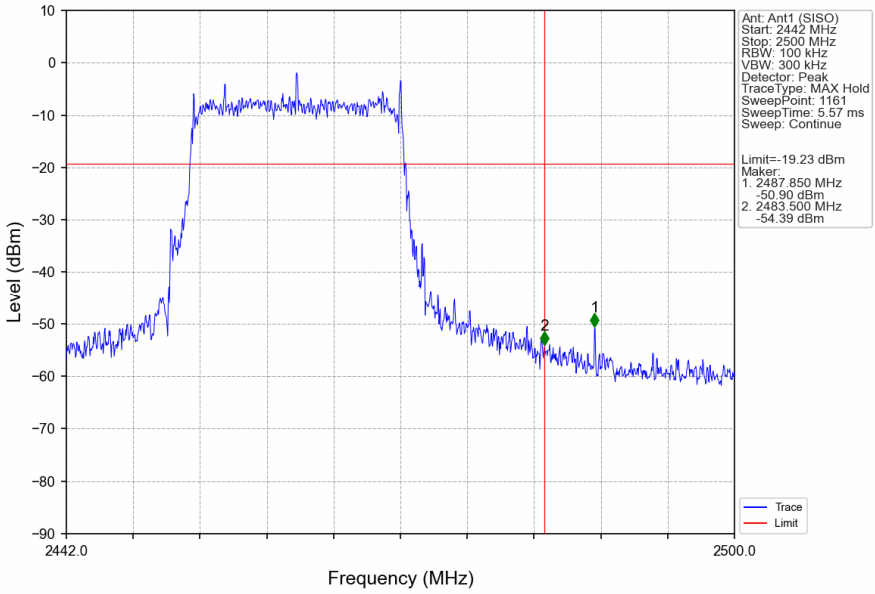

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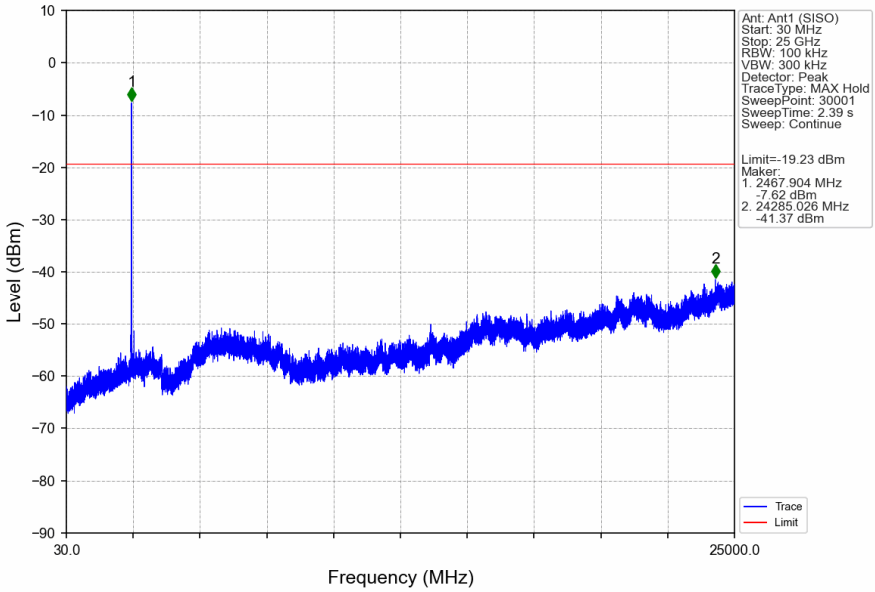
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



- End of the Report -

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