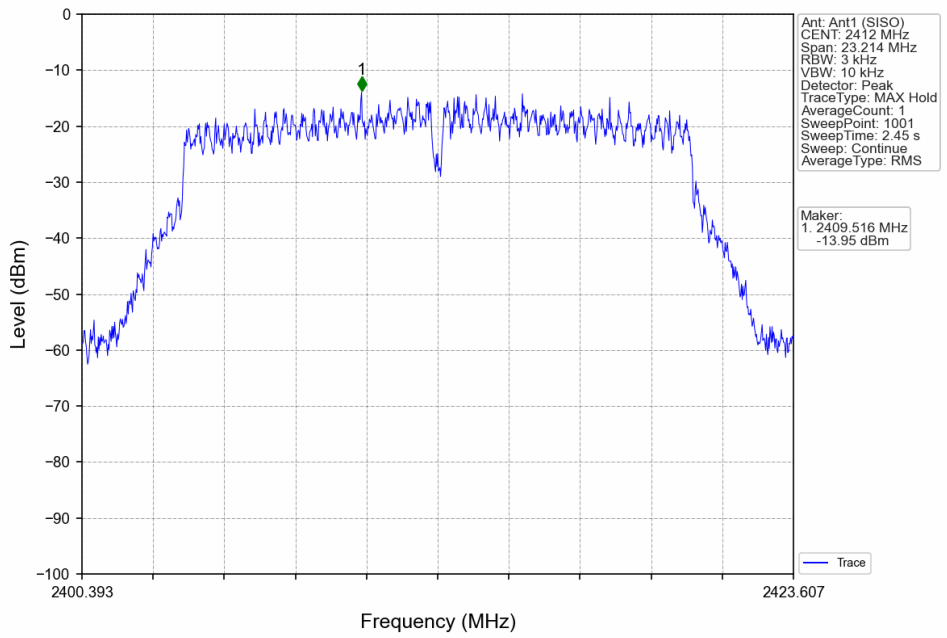
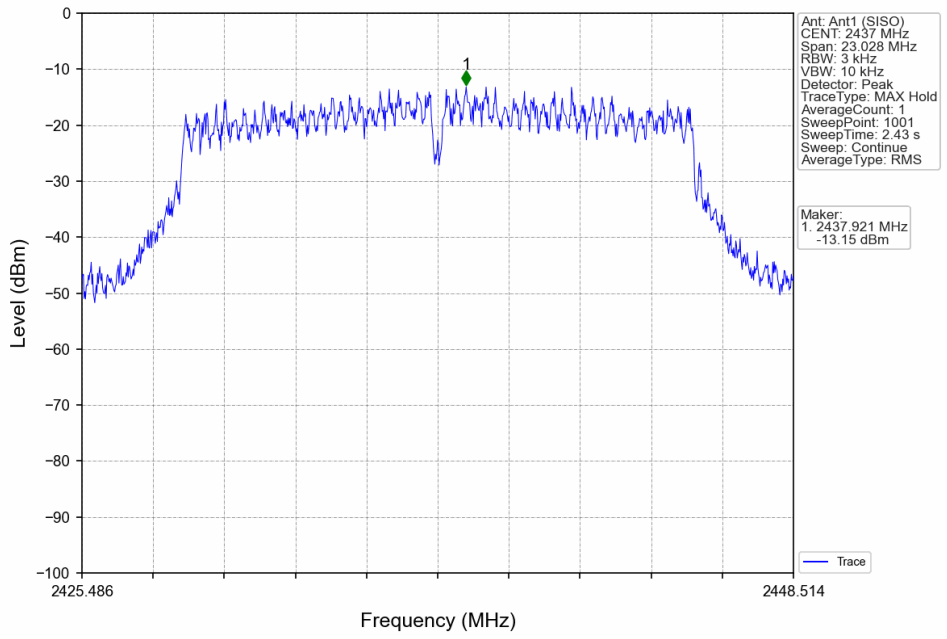


802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV

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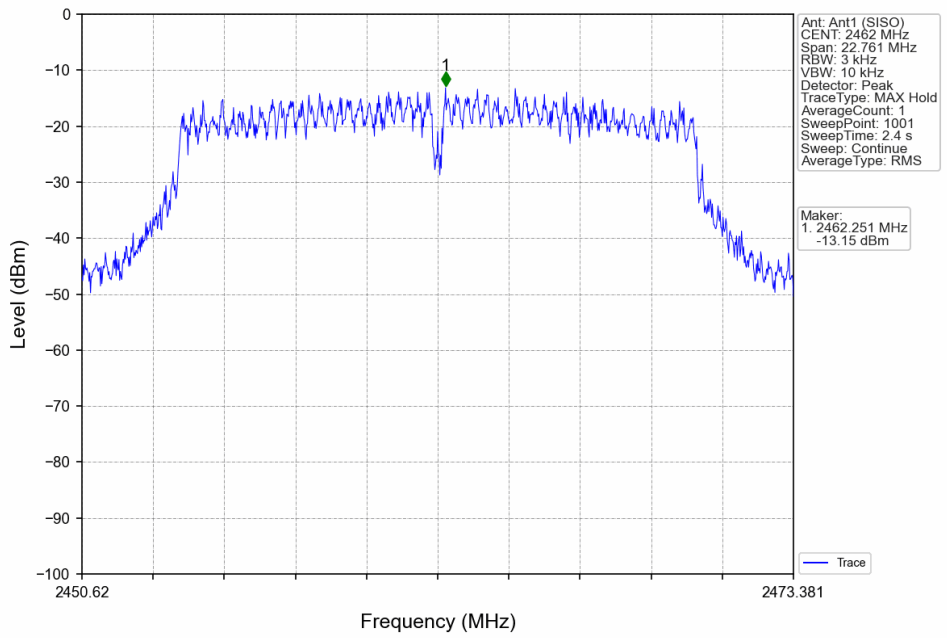
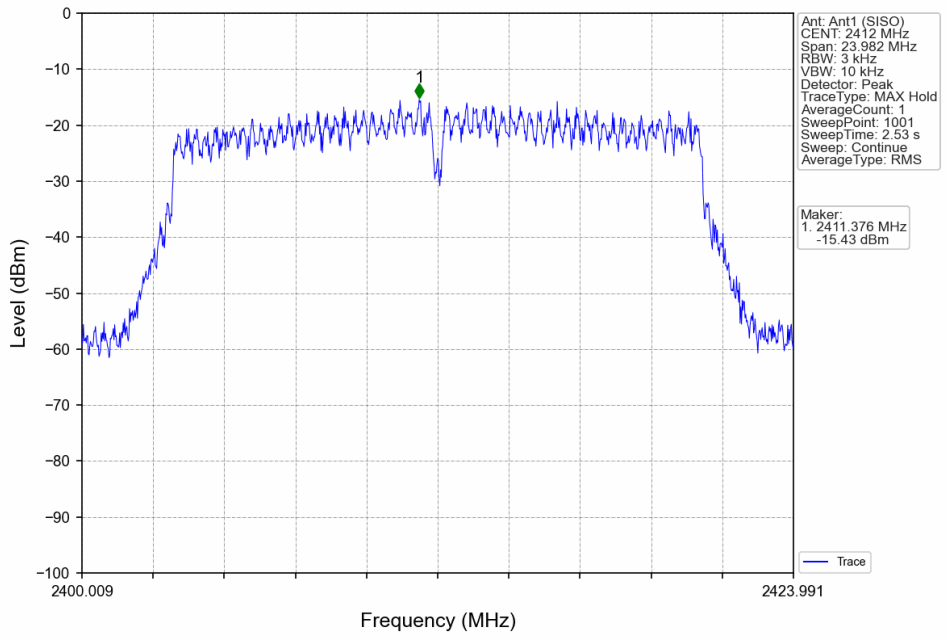


802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV

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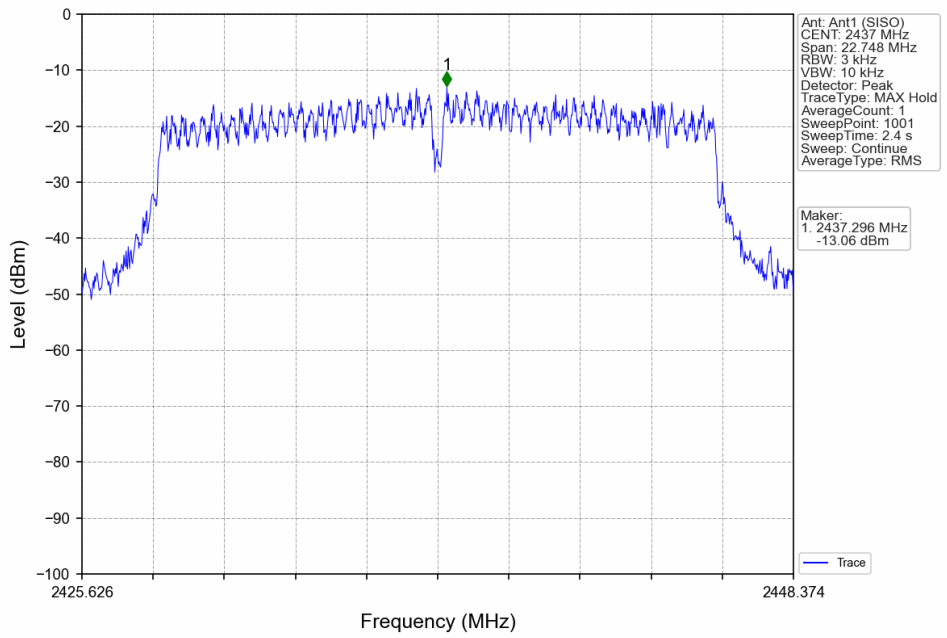
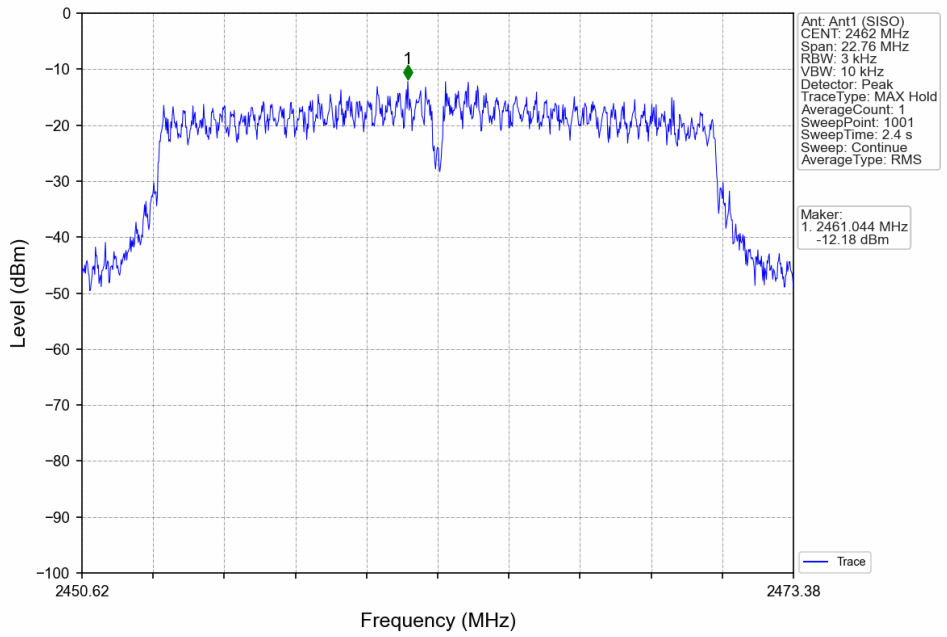


802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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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	8.03
		2437	1	7.80
		2462	1	8.00
802.11g	SISO	2412	1	3.36
		2437	1	3.99
		2462	1	3.52
802.11b	SISO	2412	2	6.43
		2437	2	6.16
		2462	2	5.80
802.11g	SISO	2412	2	0.93
		2437	2	2.24
		2462	2	2.48
802.11n (HT20)	MIMO	2412	1&2	3.62
		2437	1&2	4.28
		2462	1&2	4.19
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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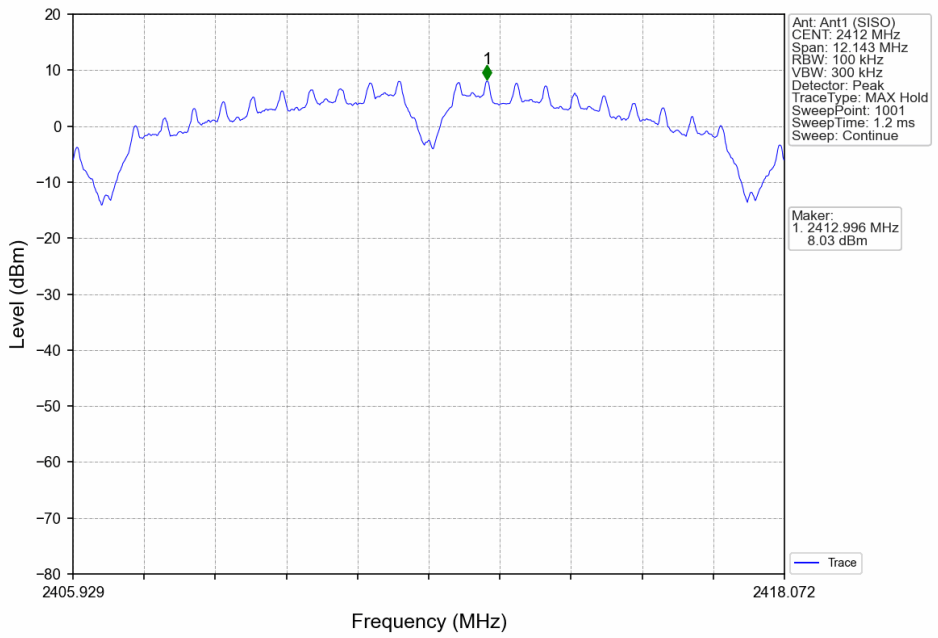
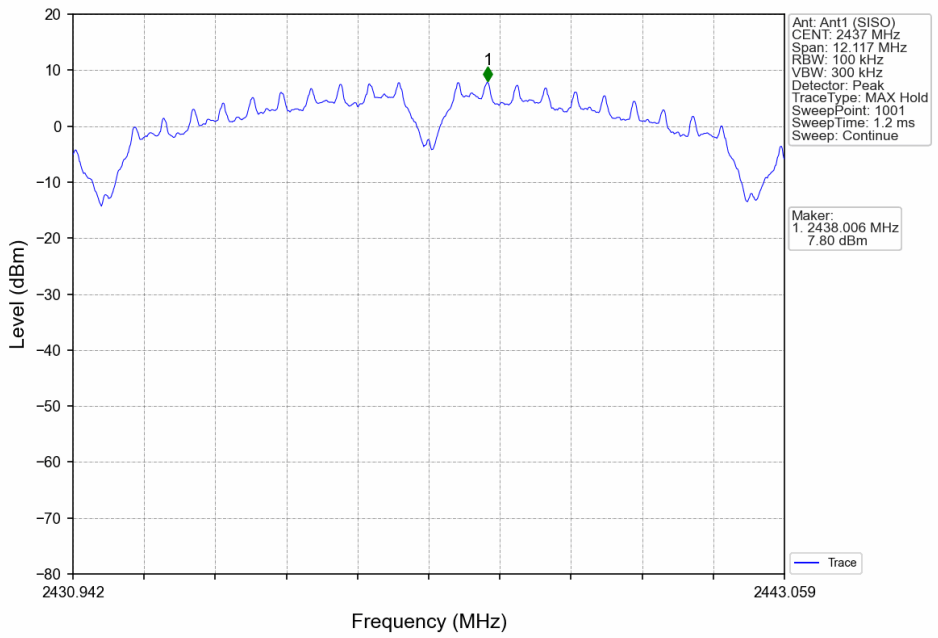
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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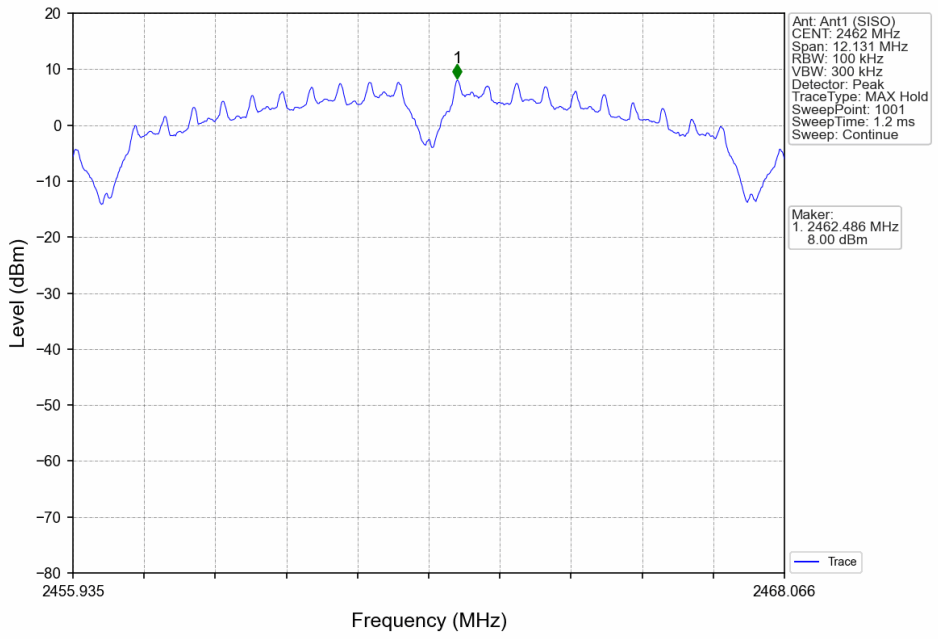
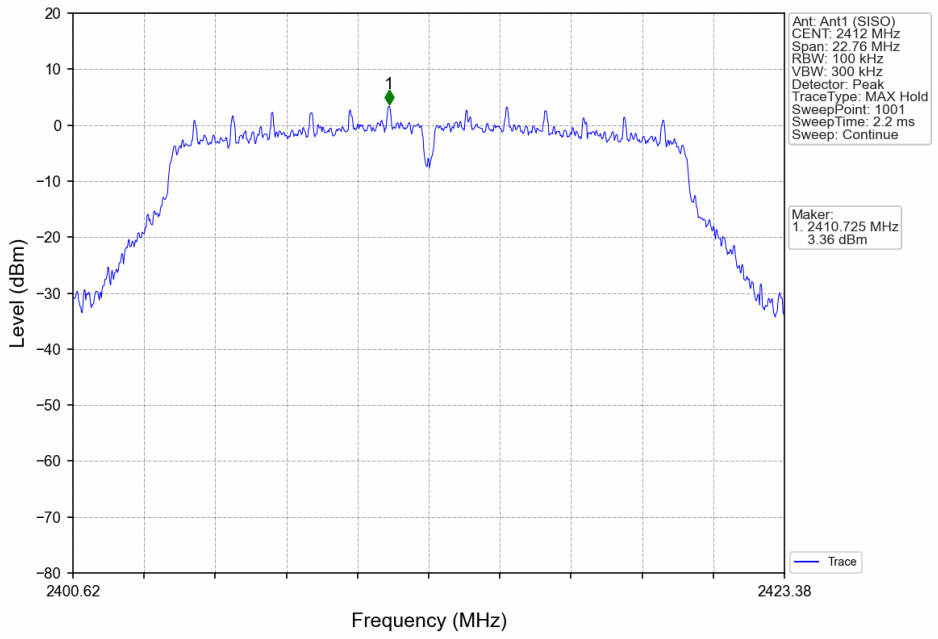
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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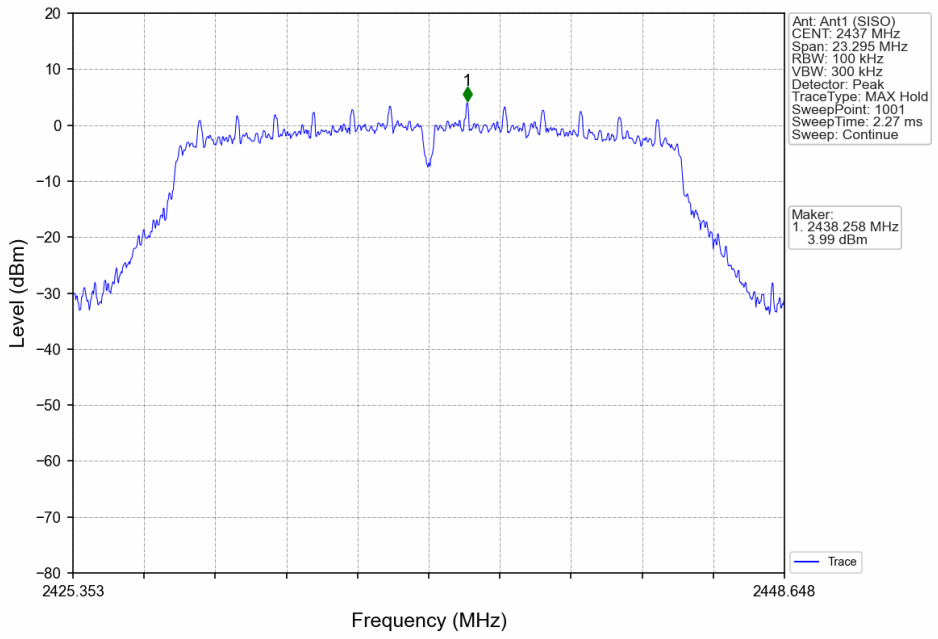
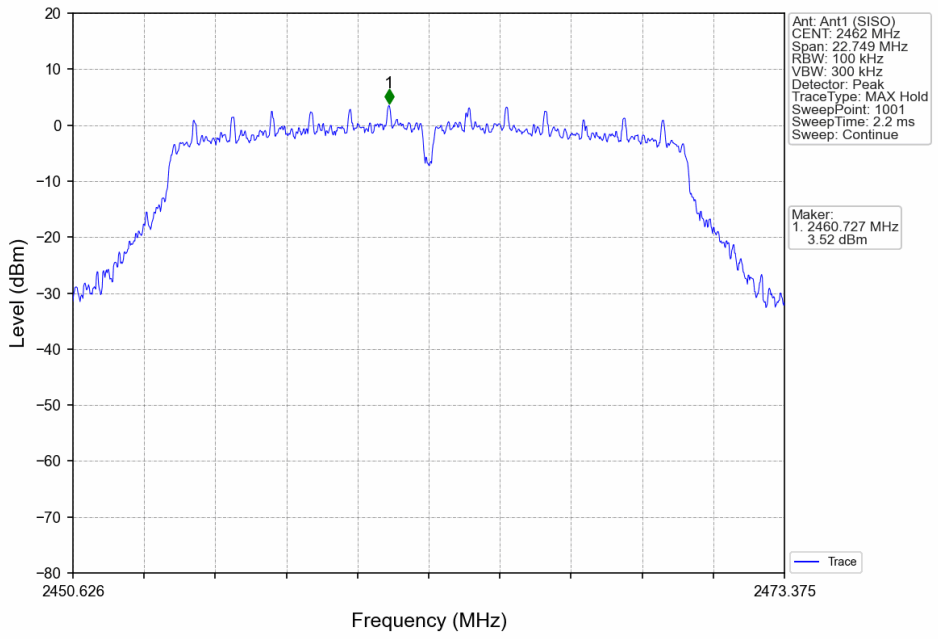
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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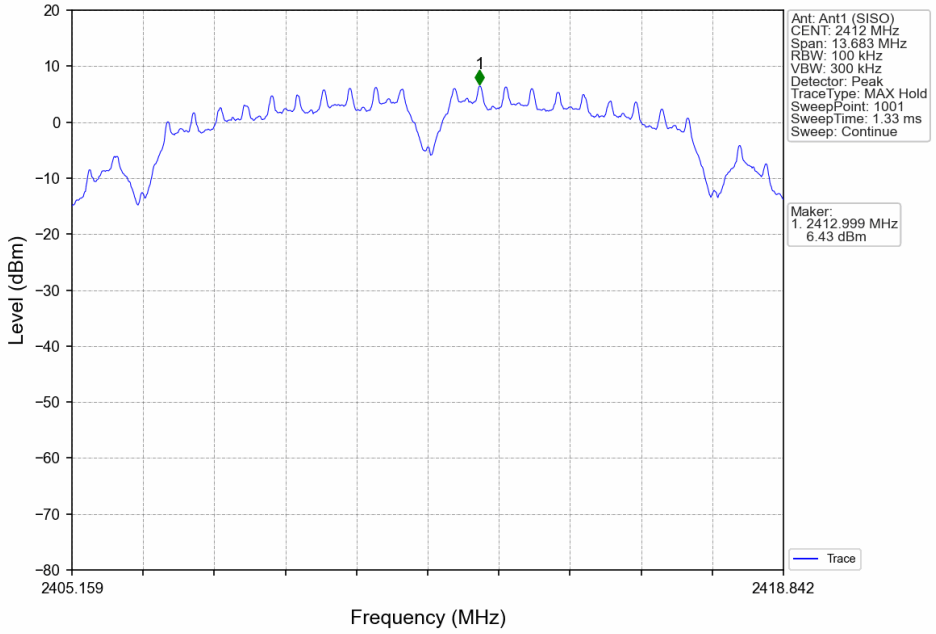
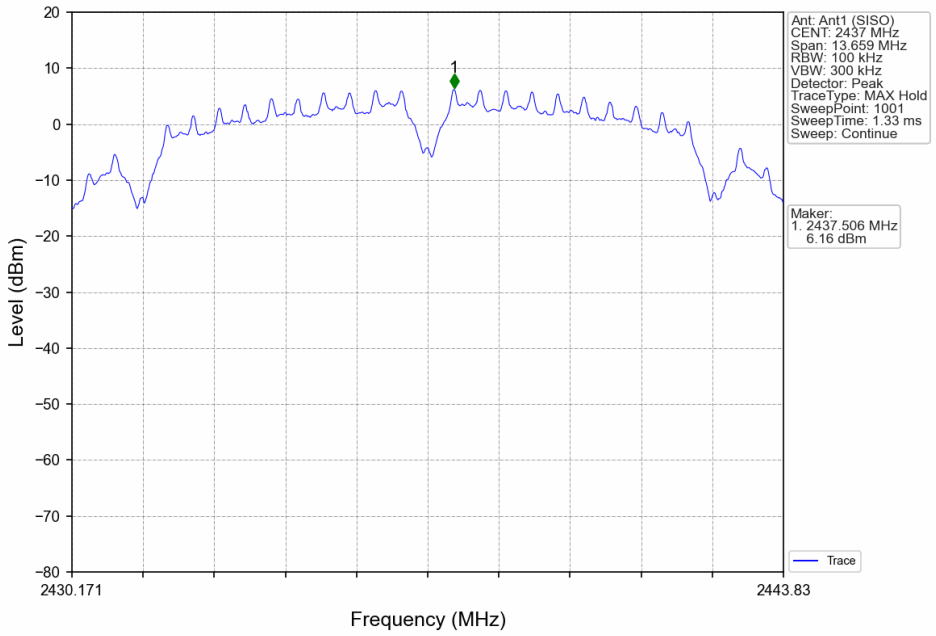
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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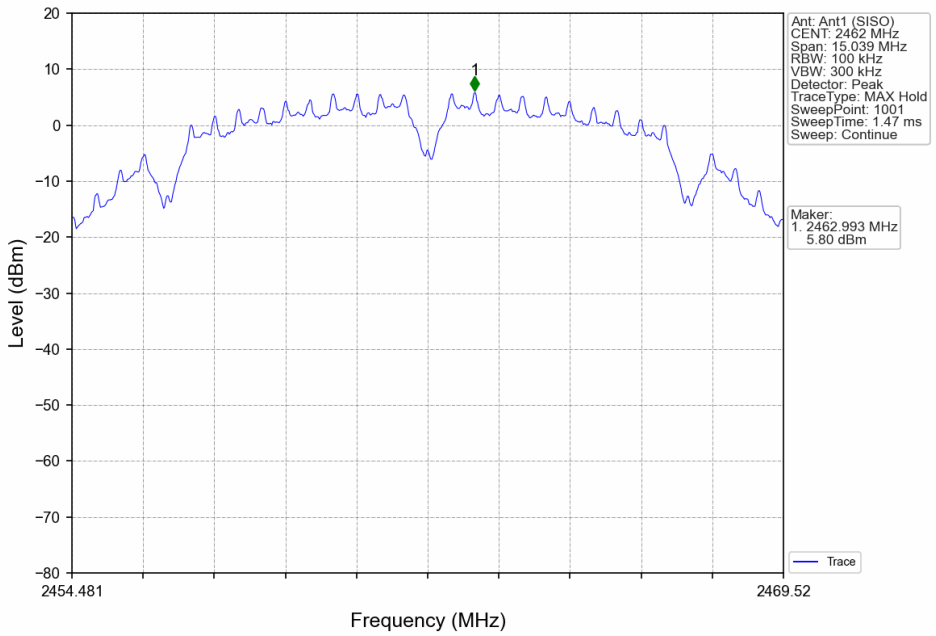
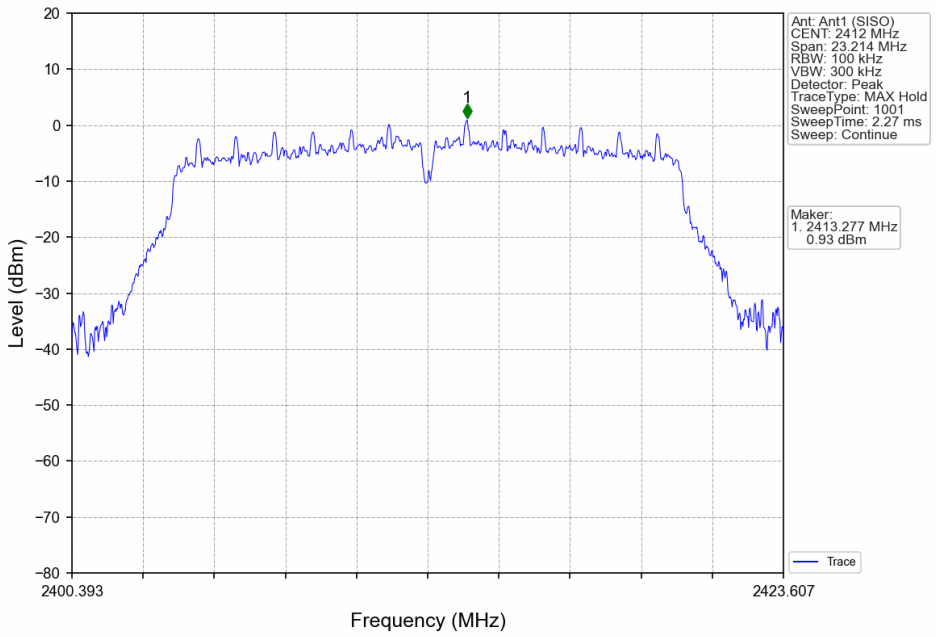
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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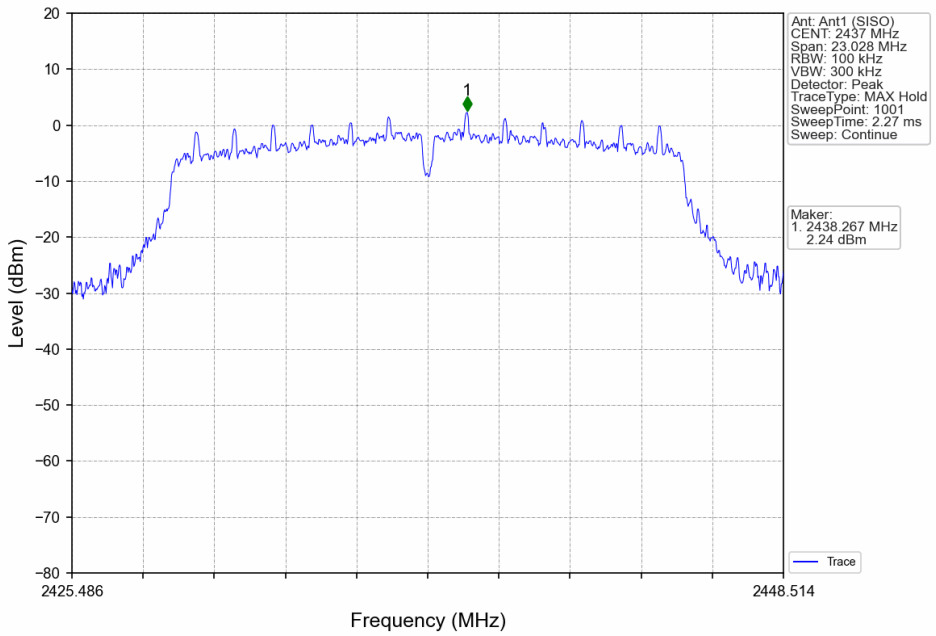
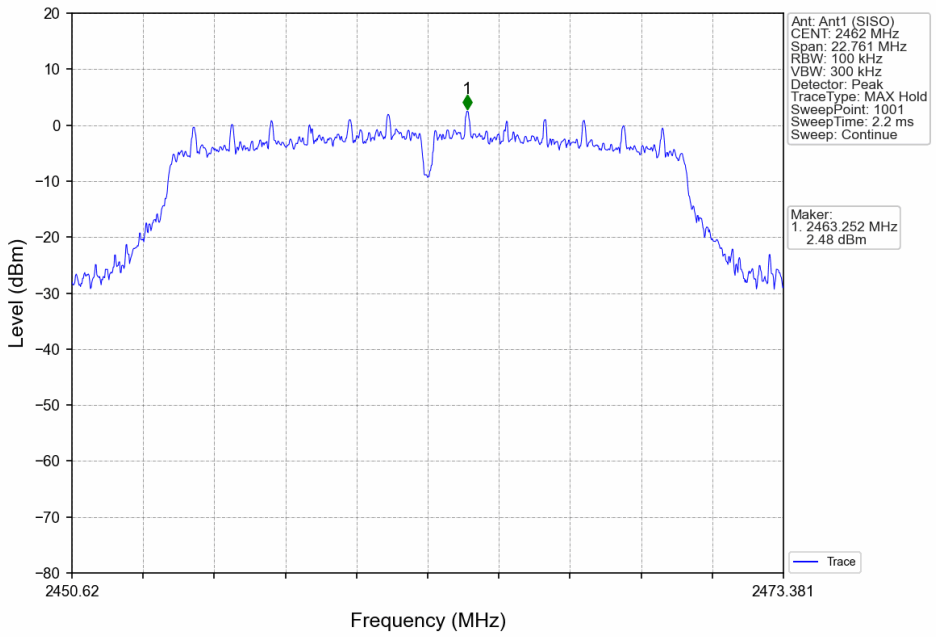
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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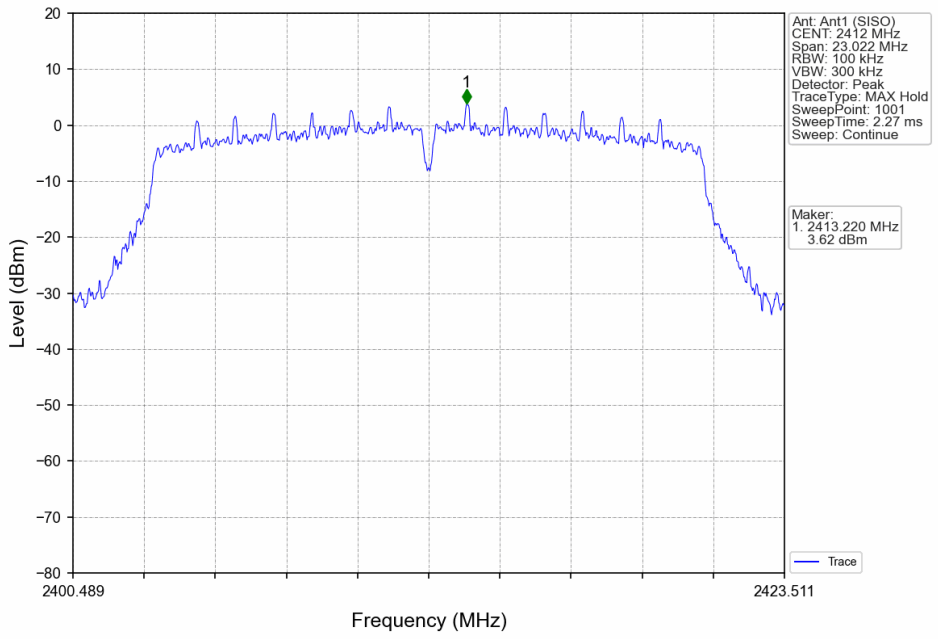
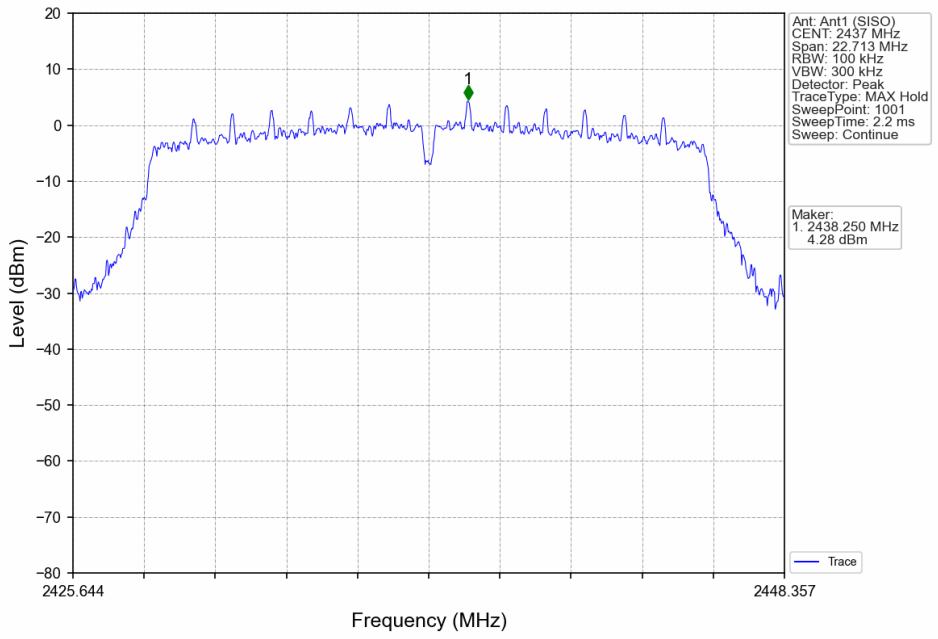
802.11n(HT20)_LCH_2412MHz_Ant1&2 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1&2 (SISO)_NTNV



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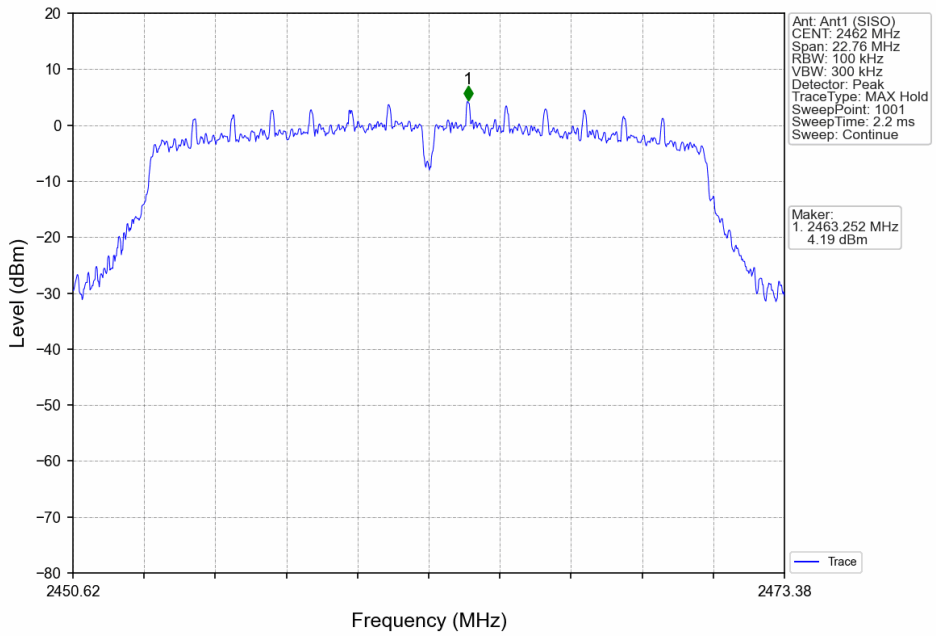
802.11n(HT20)_HCH_2462MHz_Ant1&2 (SISO)_NTNV



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	8.03	-11.97	Pass
		2437	1	8.03	-11.97	Pass
		2462	1	8.03	-11.97	Pass
802.11g	SISO	2412	1	3.99	-16.01	Pass
		2437	1	3.99	-16.01	Pass
		2462	1	3.99	-16.01	Pass
802.11b	SISO	2412	2	6.43	-13.57	Pass
		2437	2	6.43	-13.57	Pass
		2462	2	6.43	-13.57	Pass
802.11g	SISO	2412	2	2.48	-17.52	Pass
		2437	2	2.48	-17.52	Pass
		2462	2	2.48	-17.52	Pass
802.11n (HT20)	MIMO	2412	1	4.28	-15.72	Pass
		2437	1	4.28	-15.72	Pass
		2462	1	4.28	-15.72	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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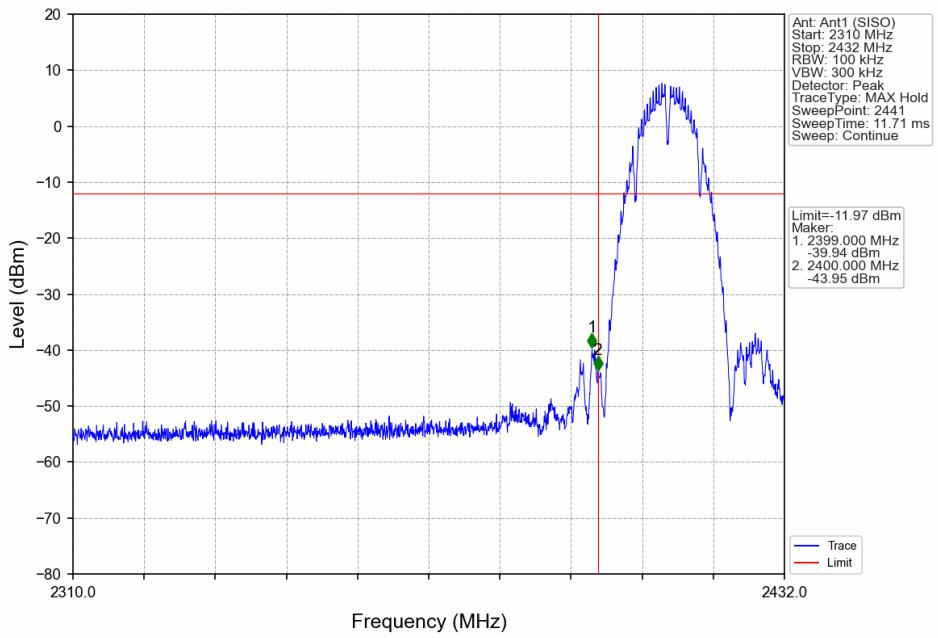
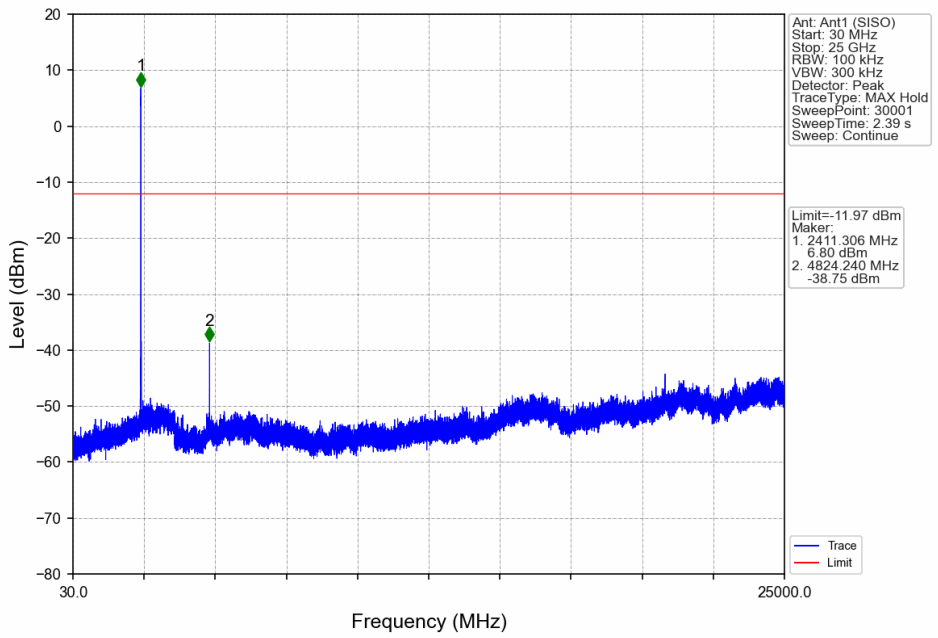
5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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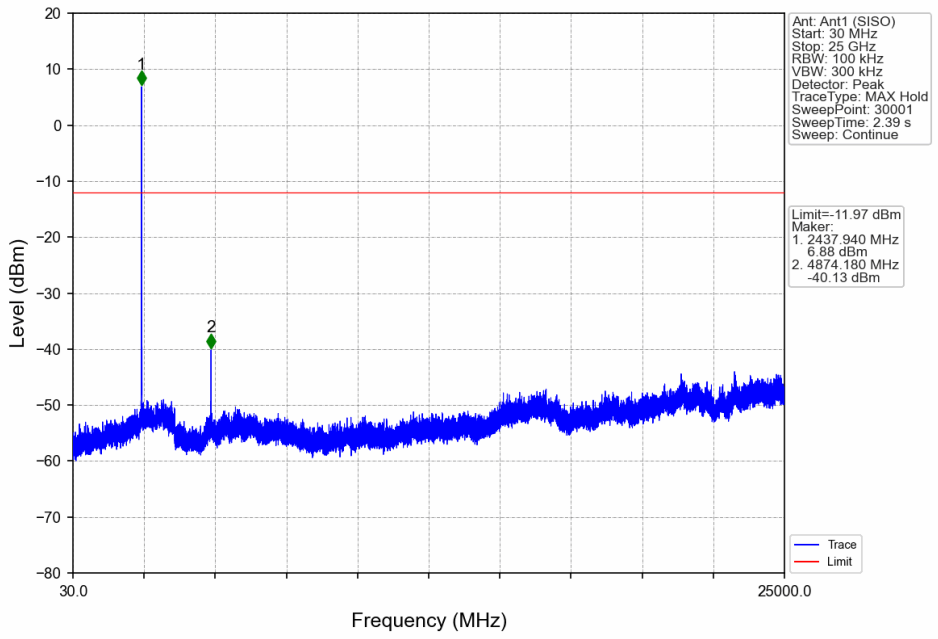
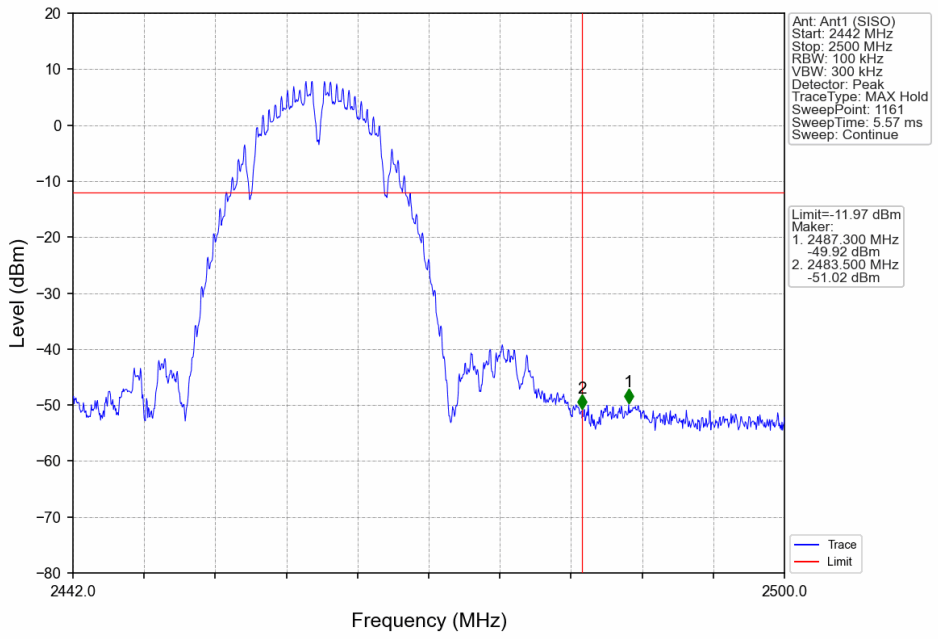
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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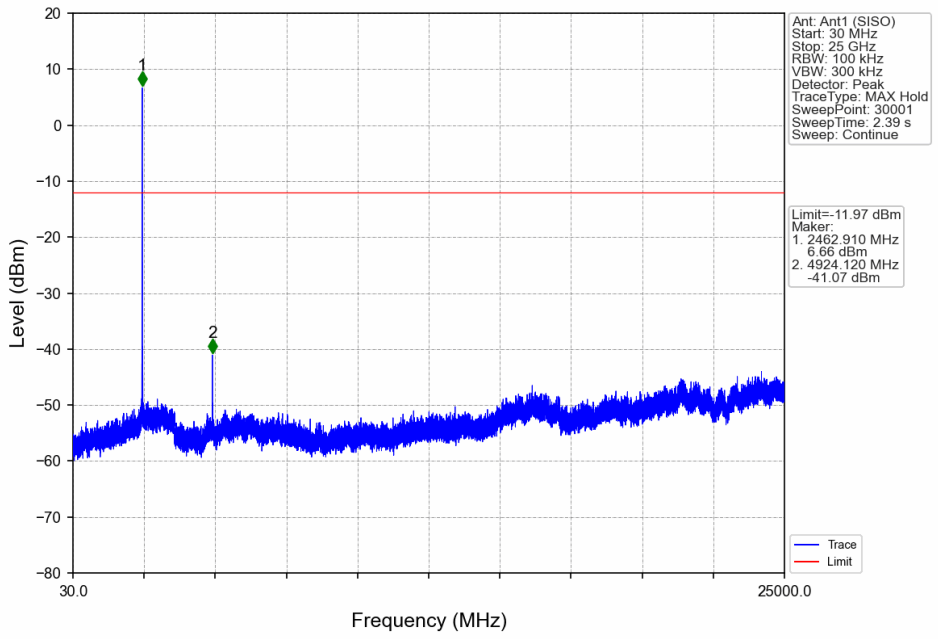
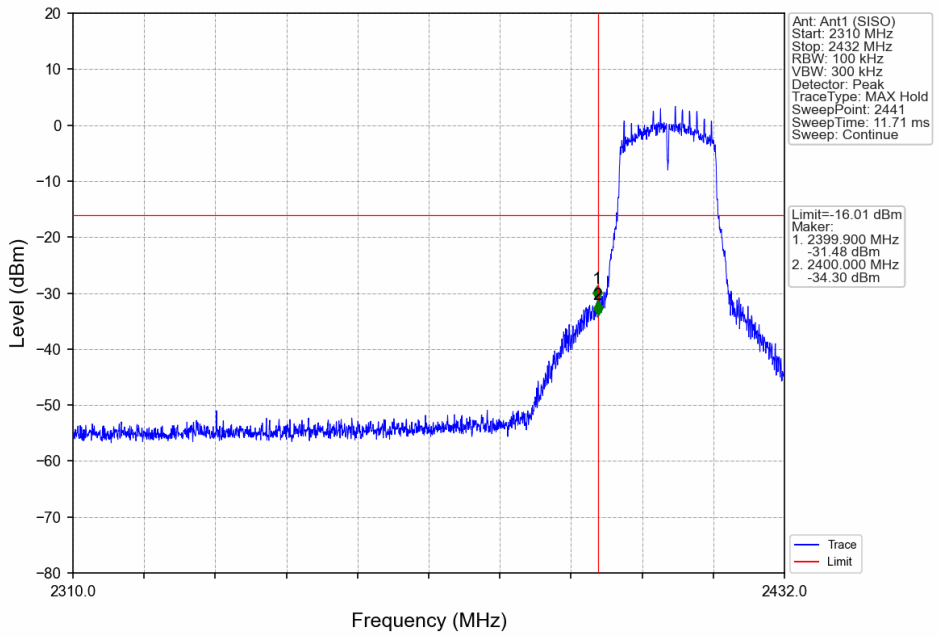
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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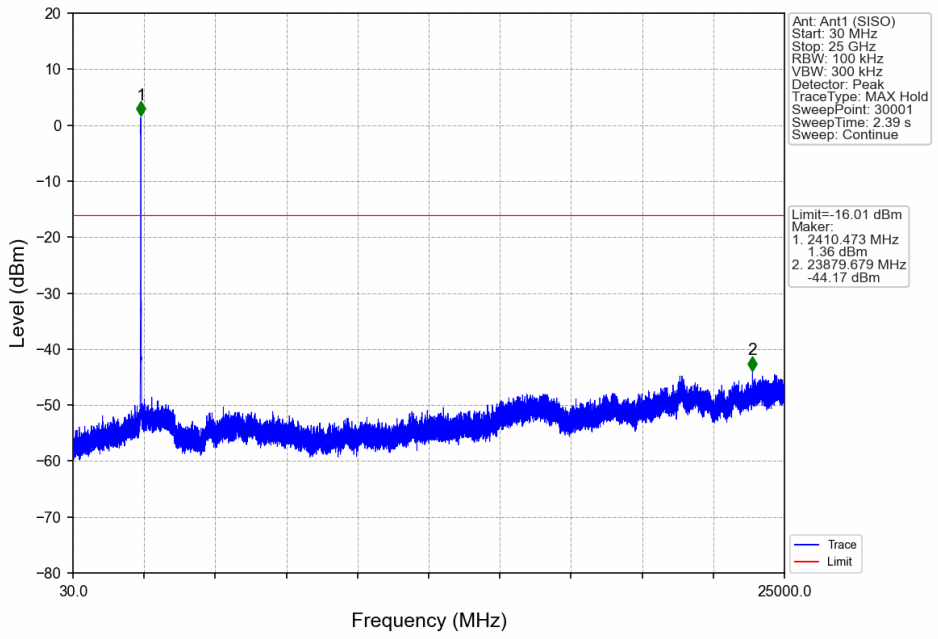
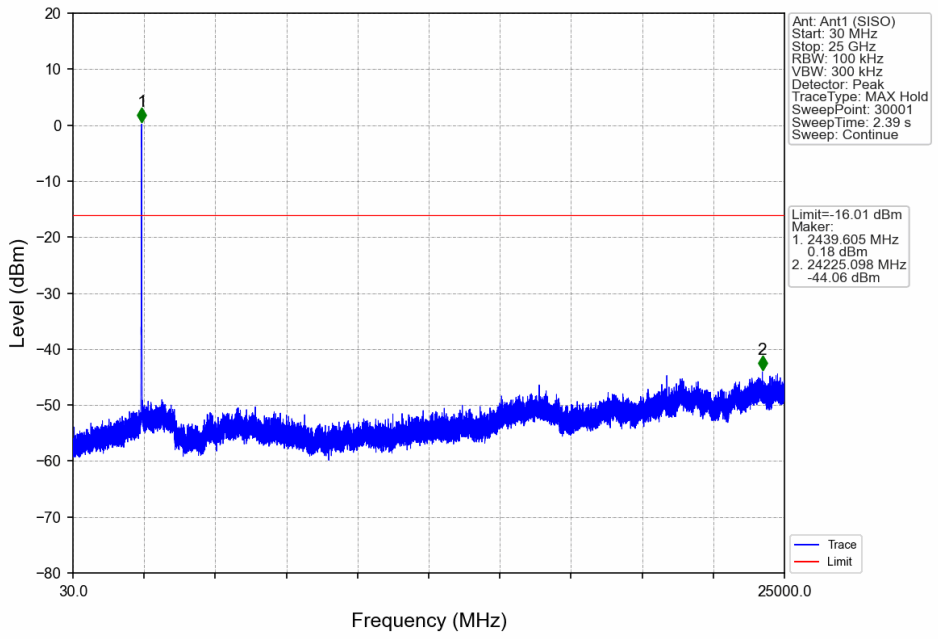
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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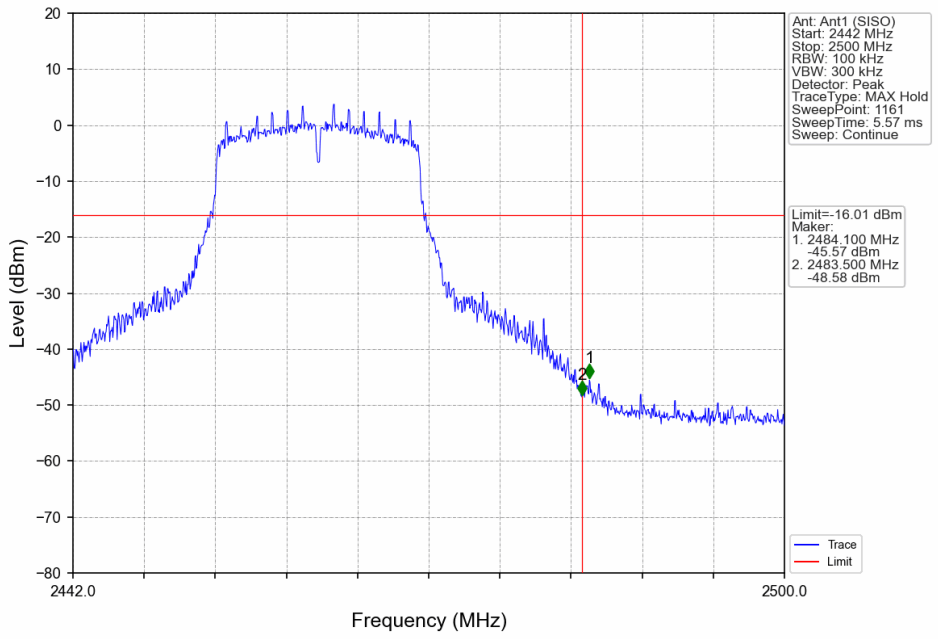
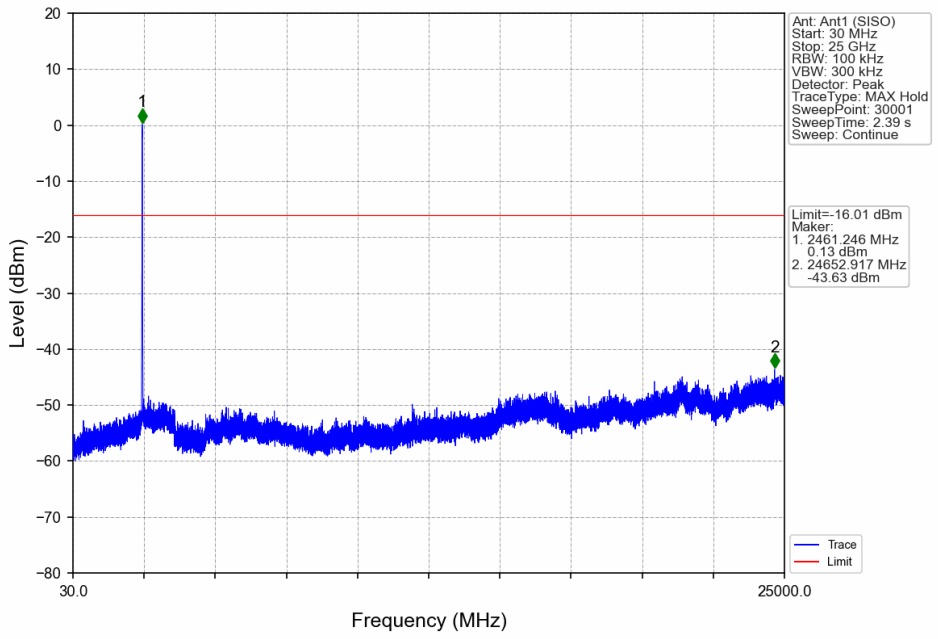
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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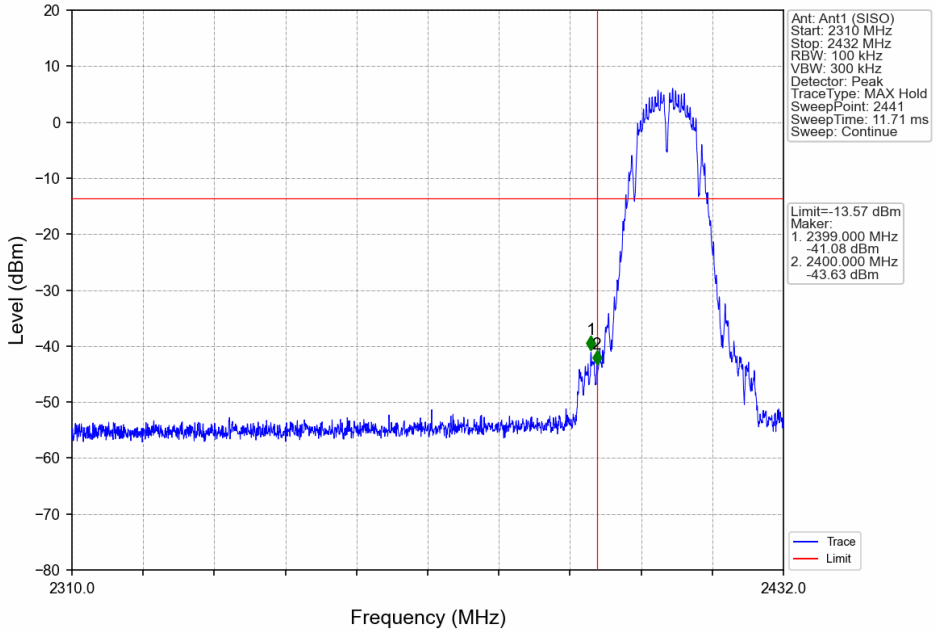
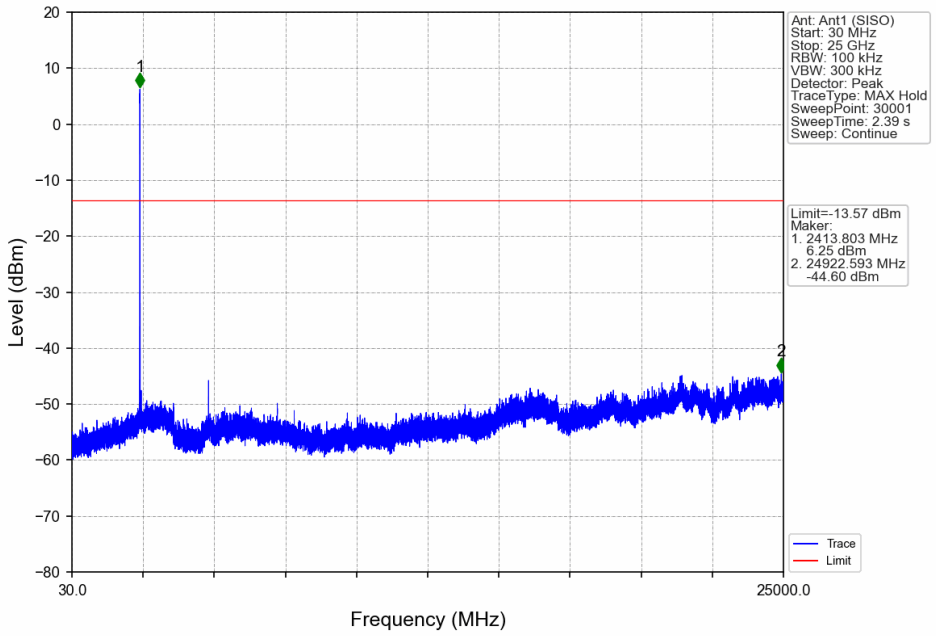
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

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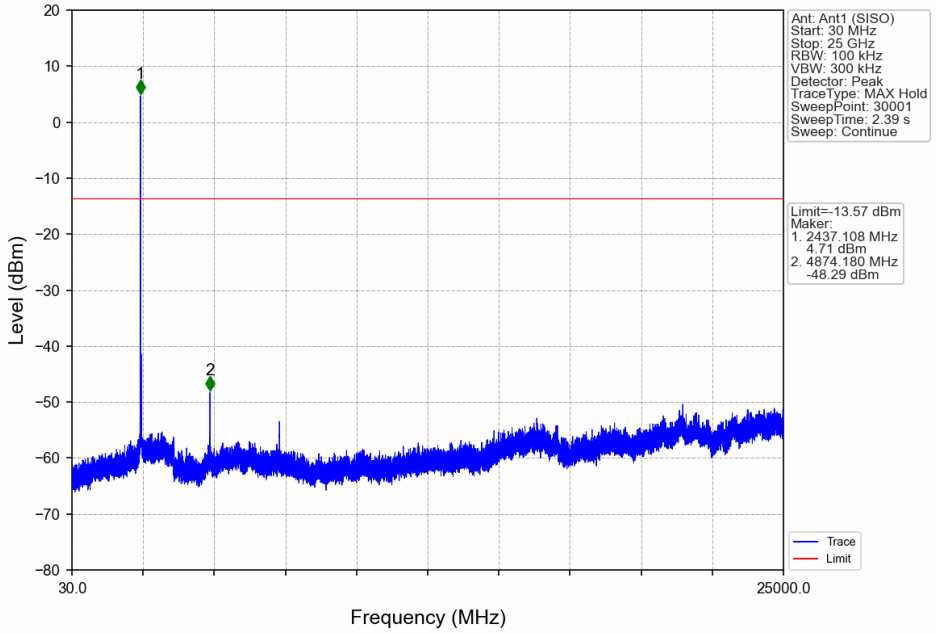
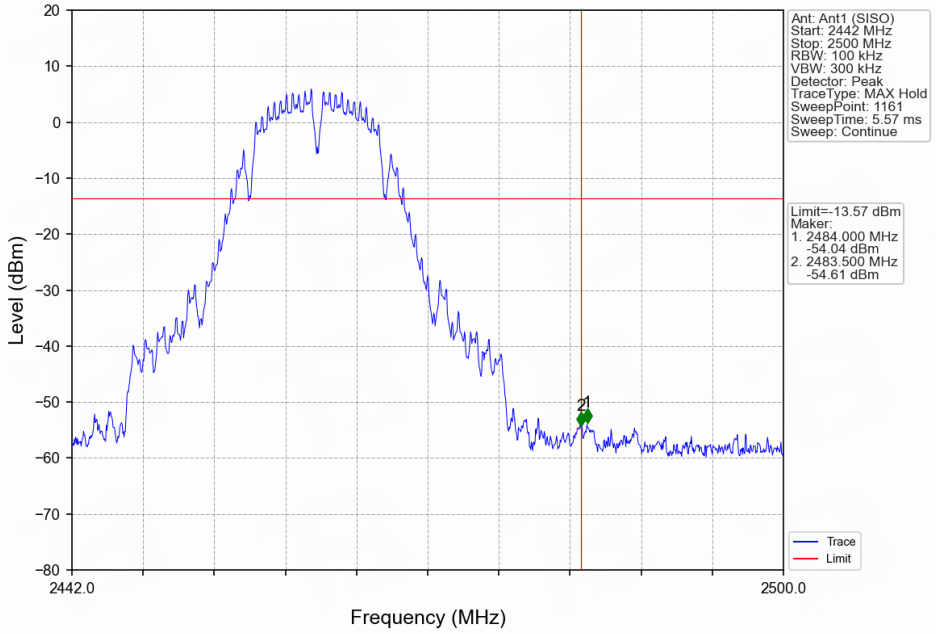


802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

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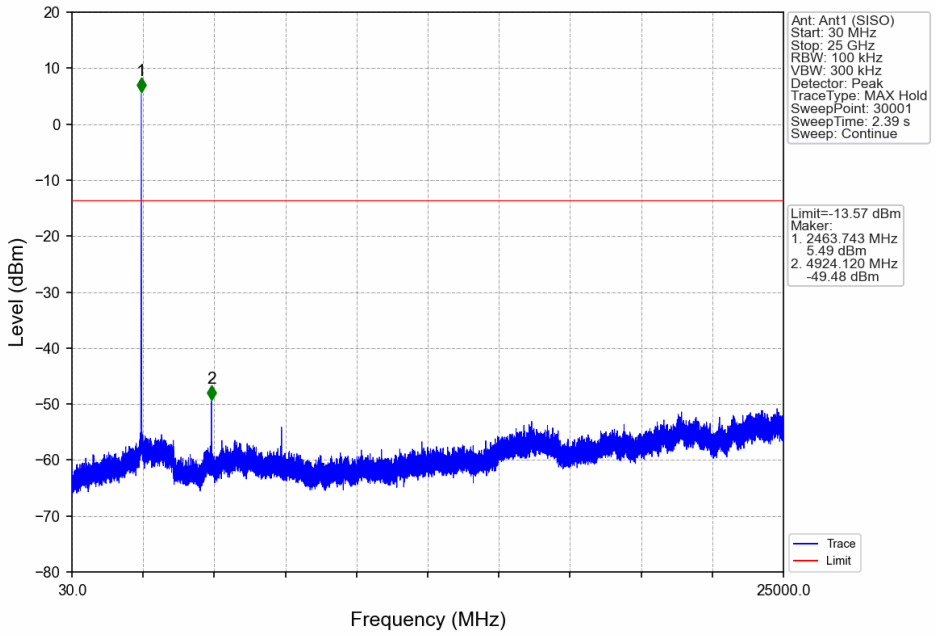
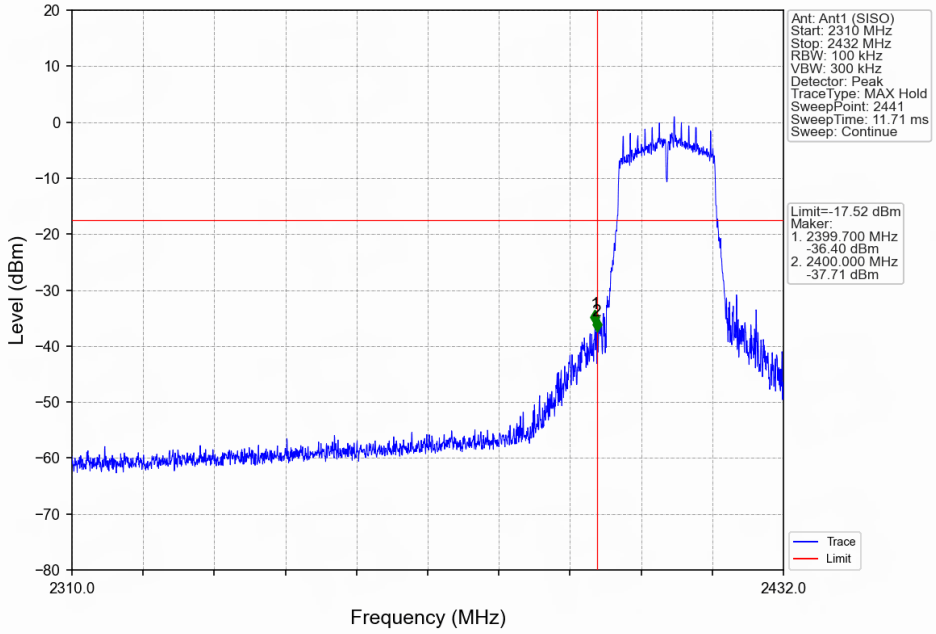


802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV

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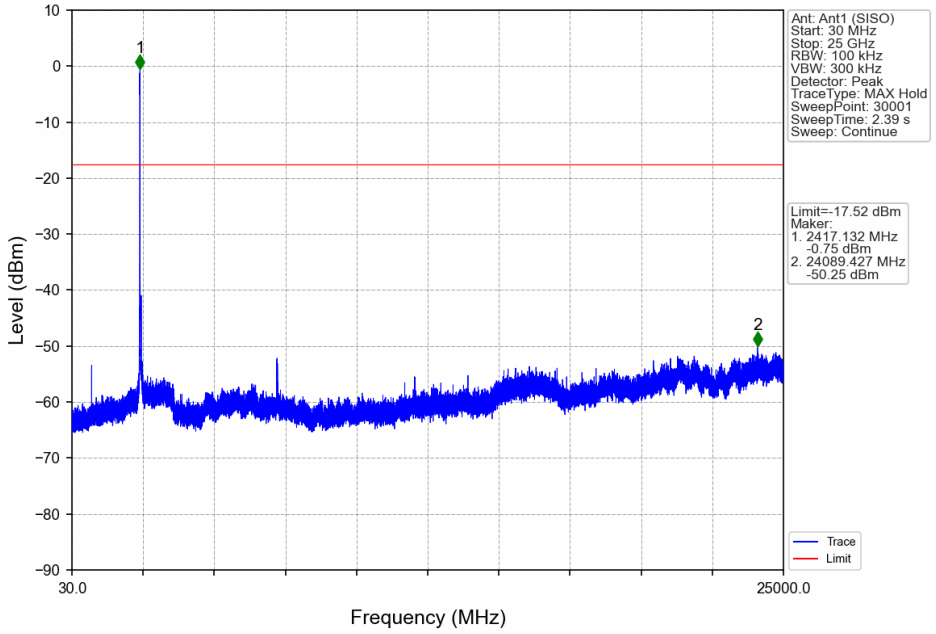
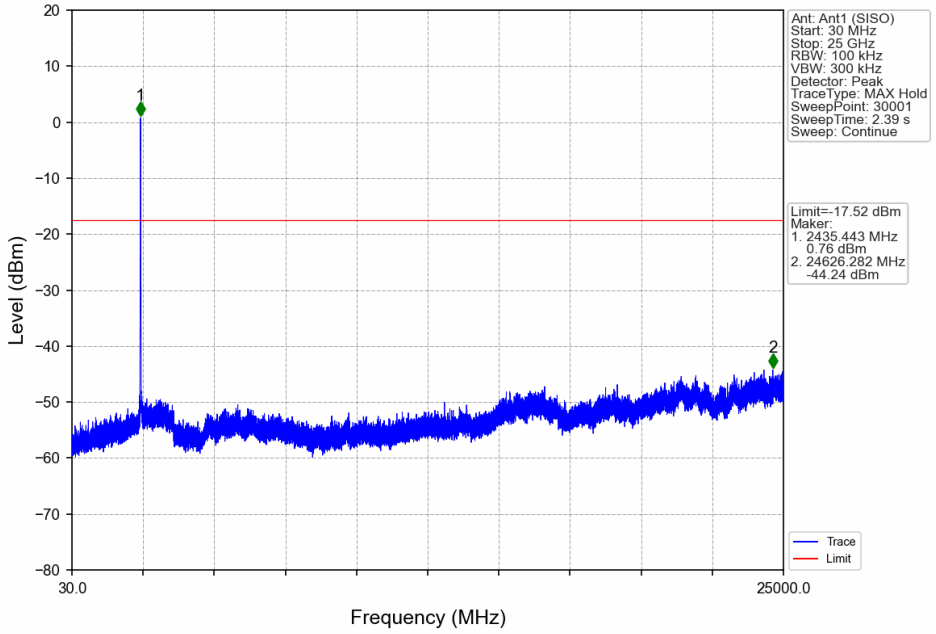


802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV

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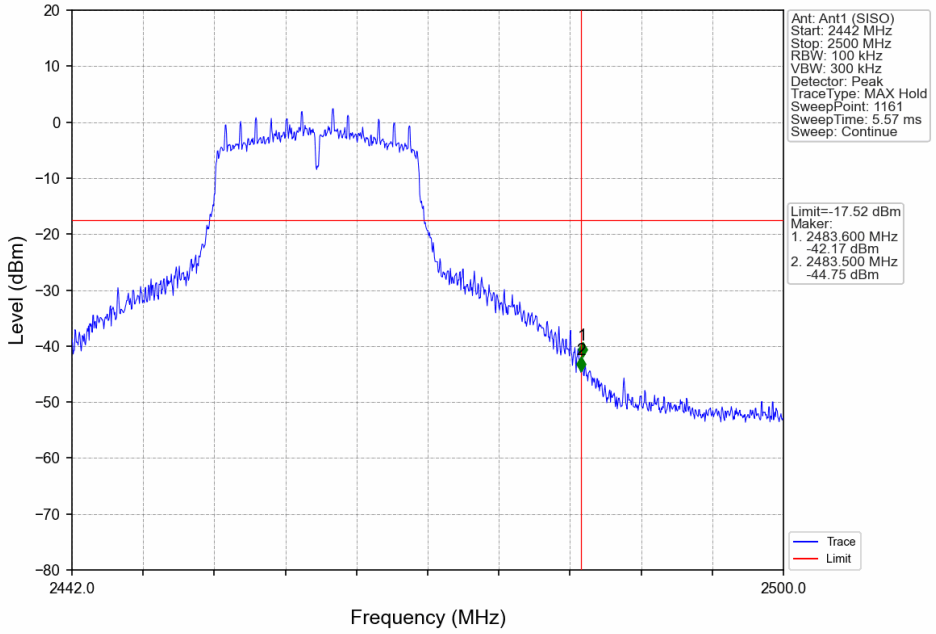
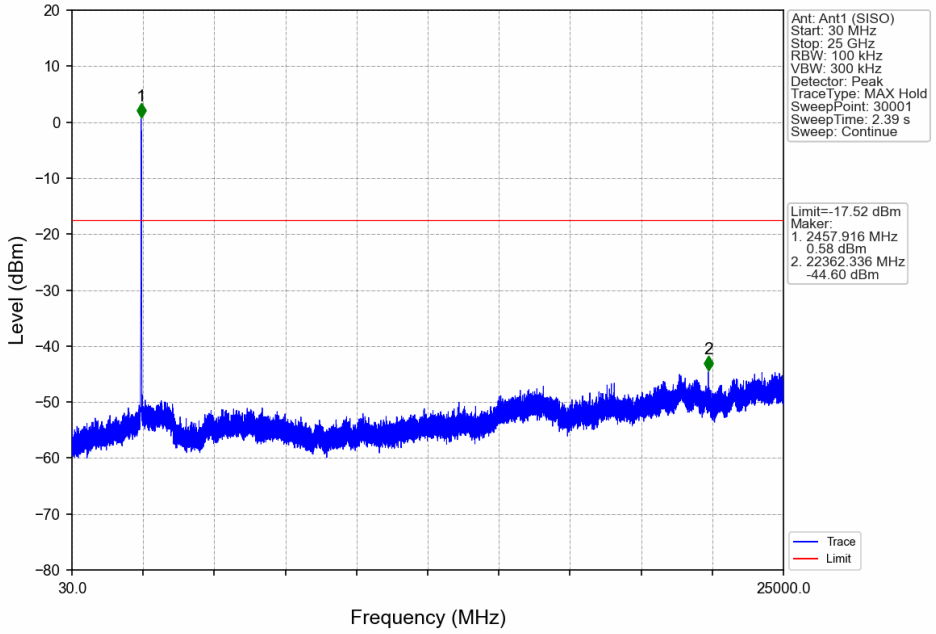


802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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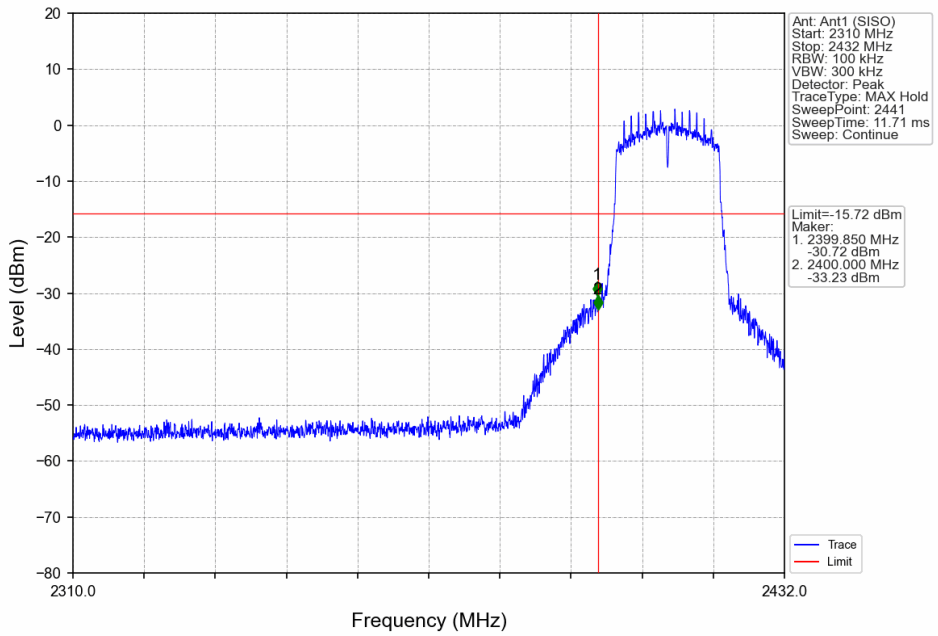
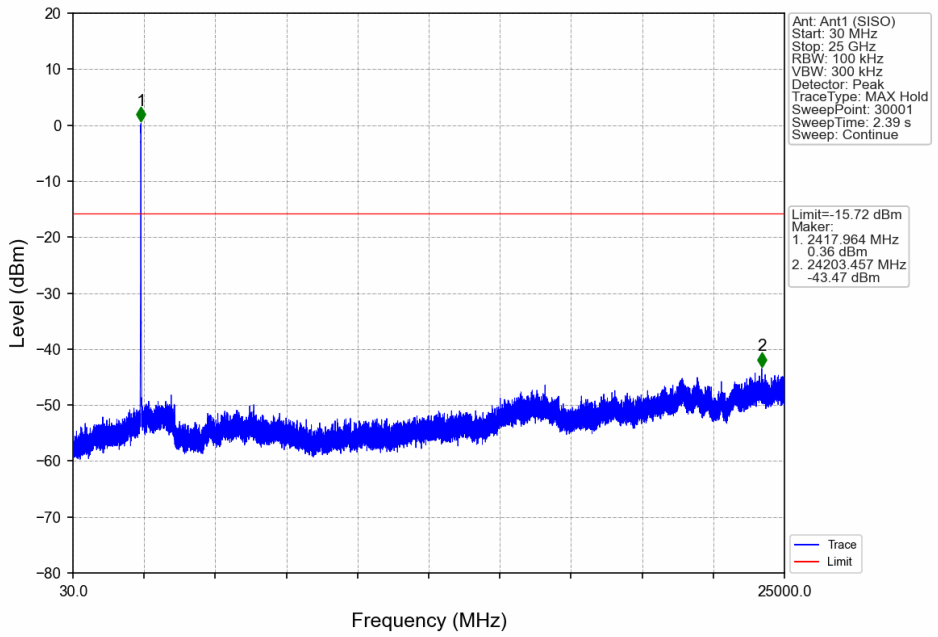
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_ Ant1 (MIMO)_NTNV



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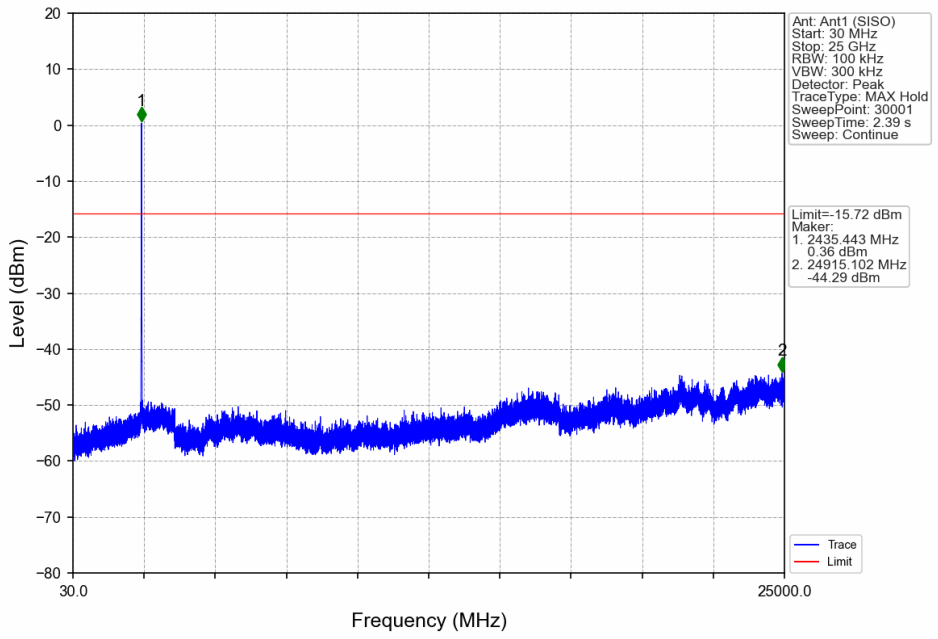
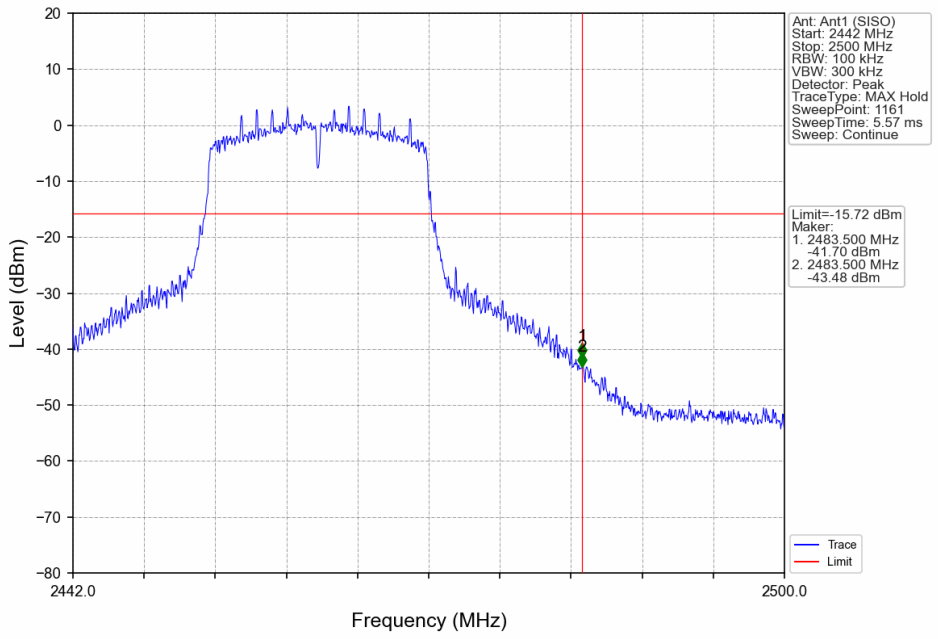
802.11n(HT20)_MCH_2437MHz_ Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_ Ant1 (MIMO)_NTNV



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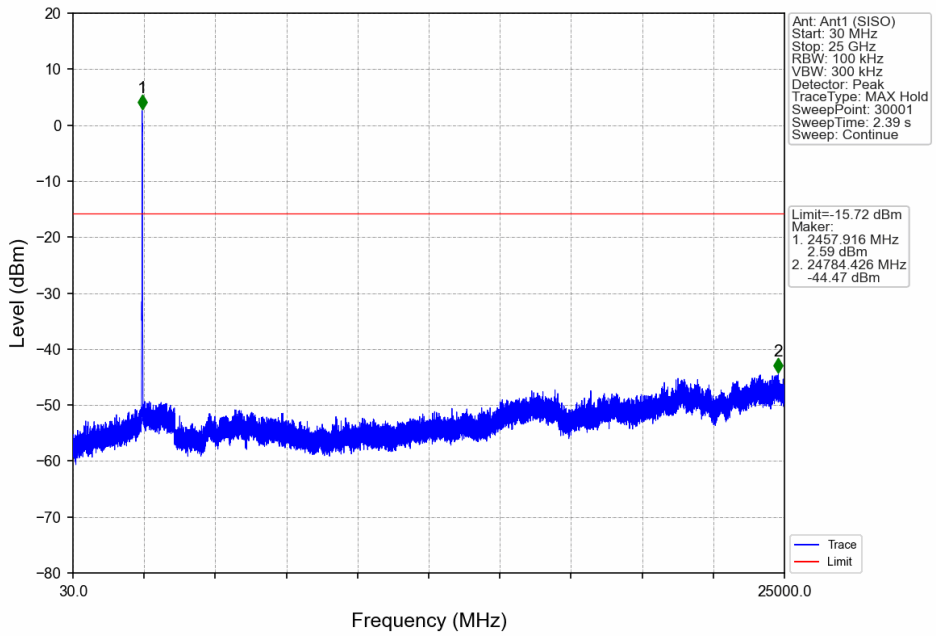
802.11n(HT20)_HCH_2462MHz_ Ant1 (MIMO)_NTNV



6. Form731
6.1 Form731
6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.1396	21.45

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IC AIC8800D

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	8.383	8.413	99.64	0.02	0.04
		2437	8.383	8.413	99.64	0.02	0.04
		2462	8.383	8.413	99.64	0.02	0.04
802.11g	SISO	2412	1.393	1.428	97.55	0.11	0.07
		2437	1.392	1.428	97.48	0.11	0.03
		2462	1.394	1.428	97.62	0.10	0.07
802.11n (HT20)	MIMO	2412	1.302	1.335	97.53	0.11	0.03
		2437	1.300	1.335	97.38	0.12	0.10
		2462	1.301	1.336	97.38	0.12	0.07

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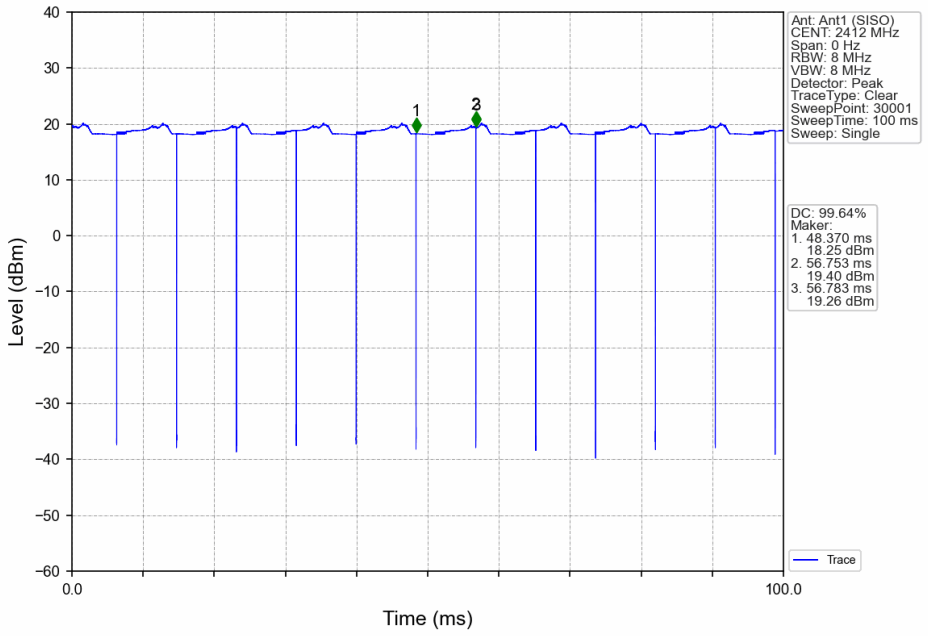
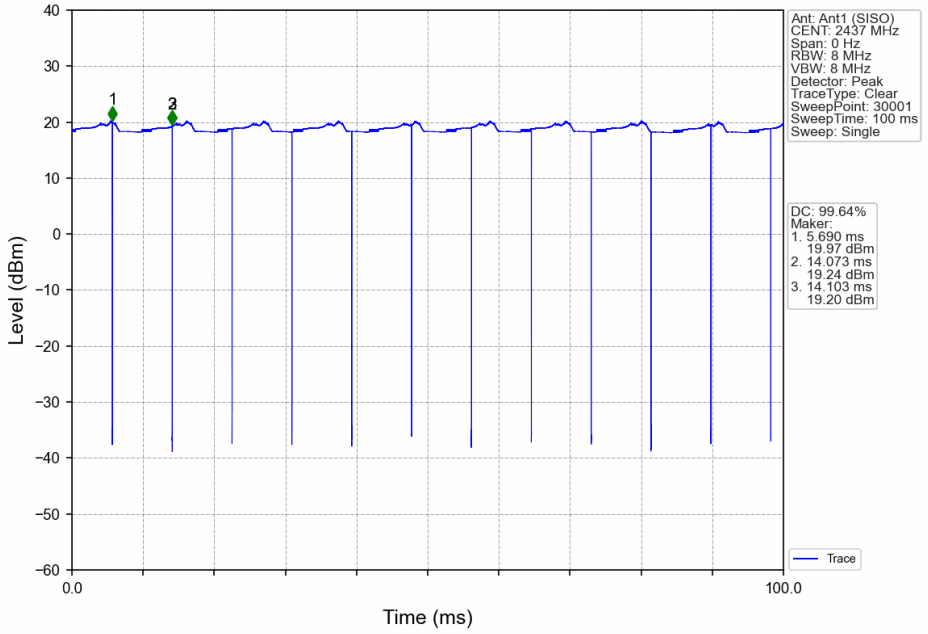
1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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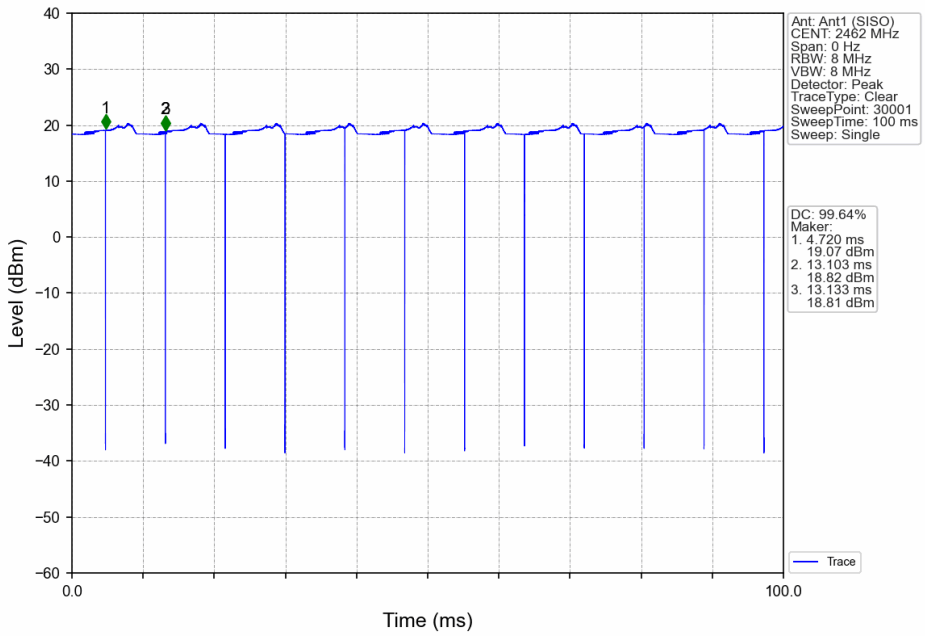
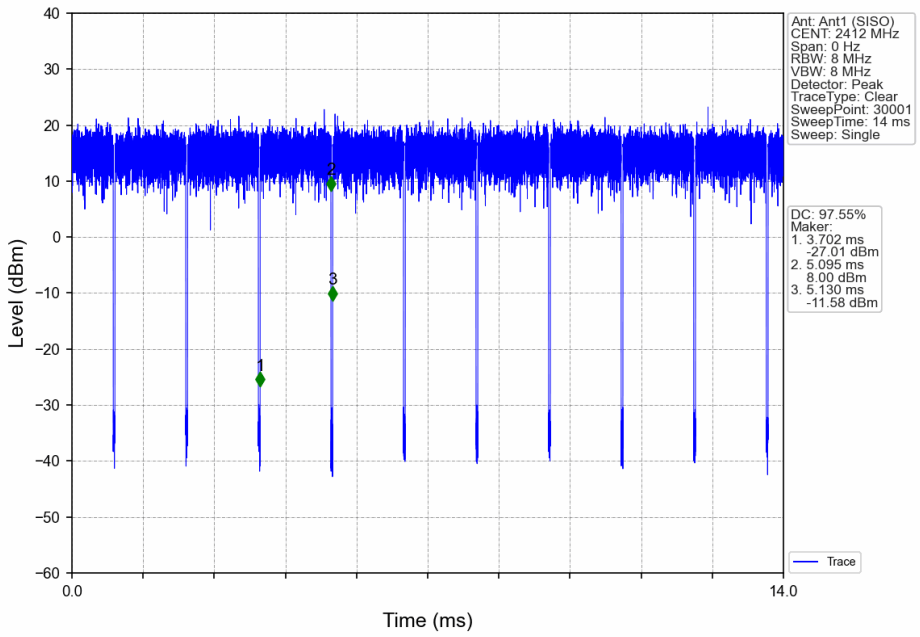
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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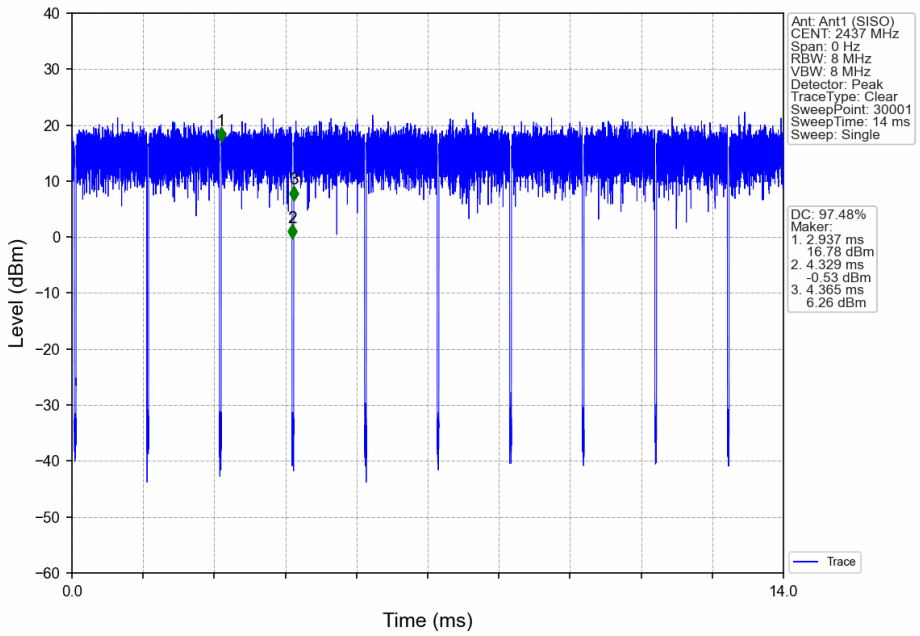
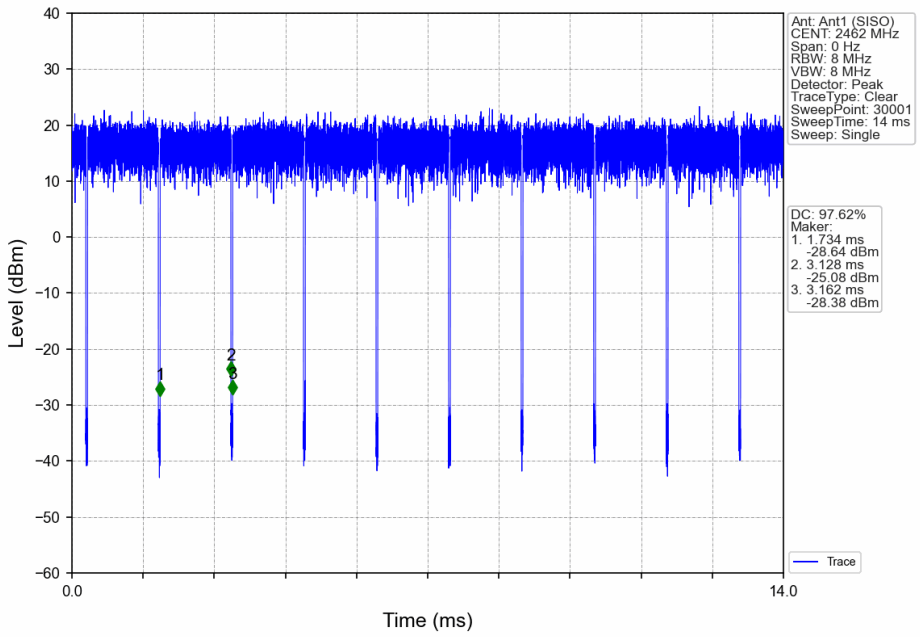
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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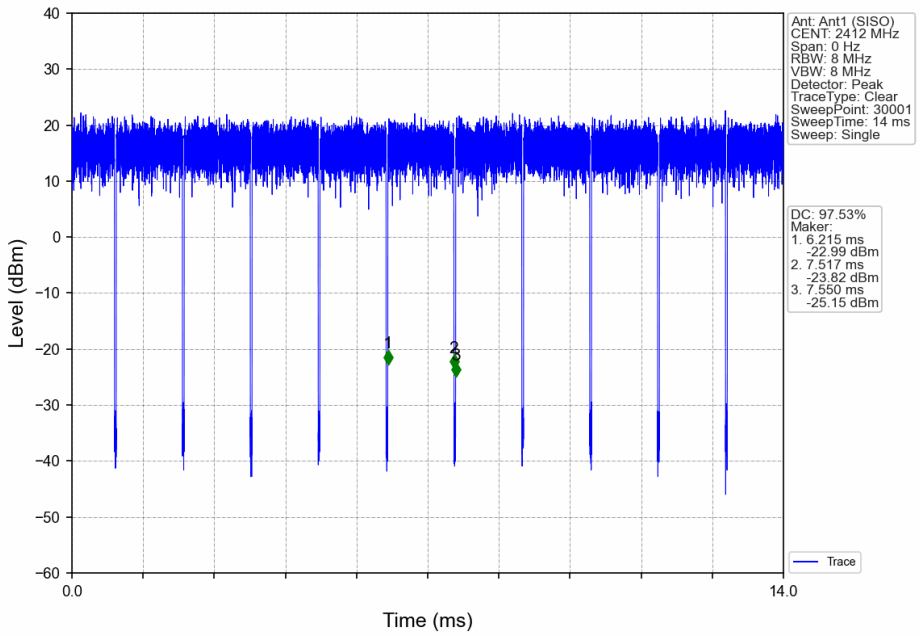
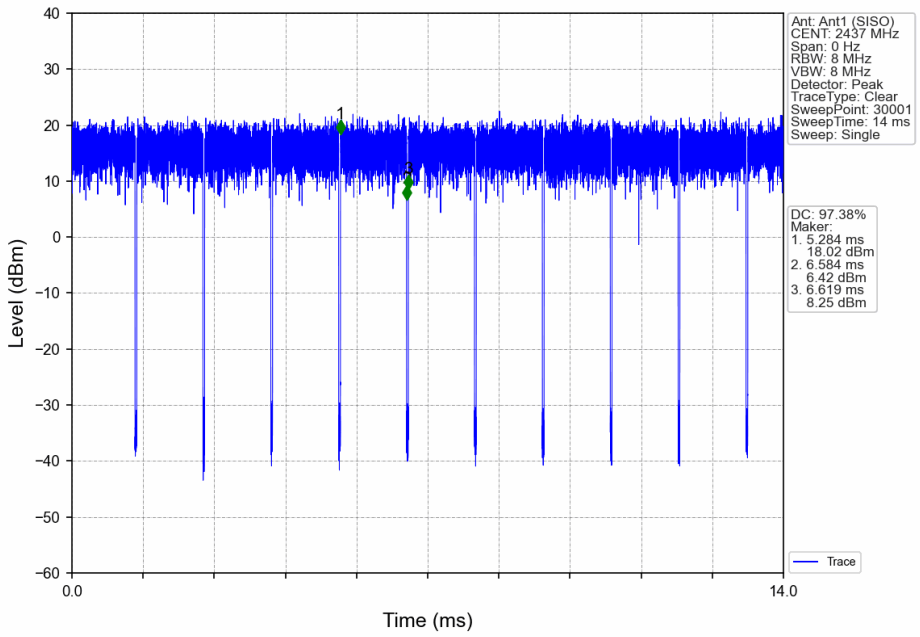
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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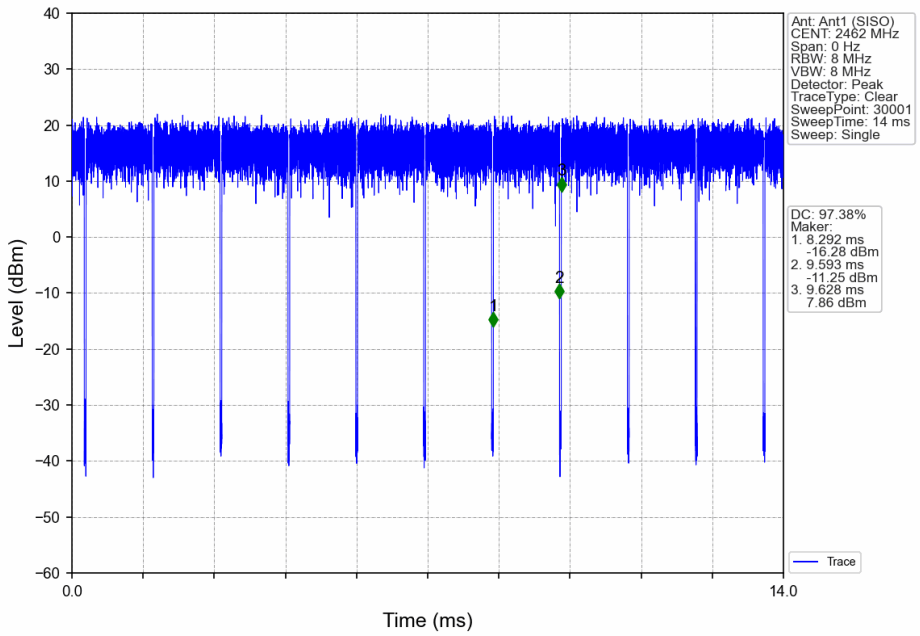
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



1.2 Ant2

1.2.1 Test Result

Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.484	12.527	99.66	0.01	0.13
		2437	12.480	12.533	99.58	0.02	0.13
		2462	12.480	12.533	99.58	0.02	0.19
802.11g	SISO	2412	2.073	2.133	97.19	0.12	1.25
		2437	2.073	2.133	97.19	0.12	1.25
		2462	2.073	2.115	98.01	0.09	0.44
802.11n (HT20)	MIMO	2412	1.933	1.984	97.43	0.11	0.89
		2437	1.933	1.975	97.87	0.09	0.50
		2462	1.933	1.984	97.43	0.11	0.89

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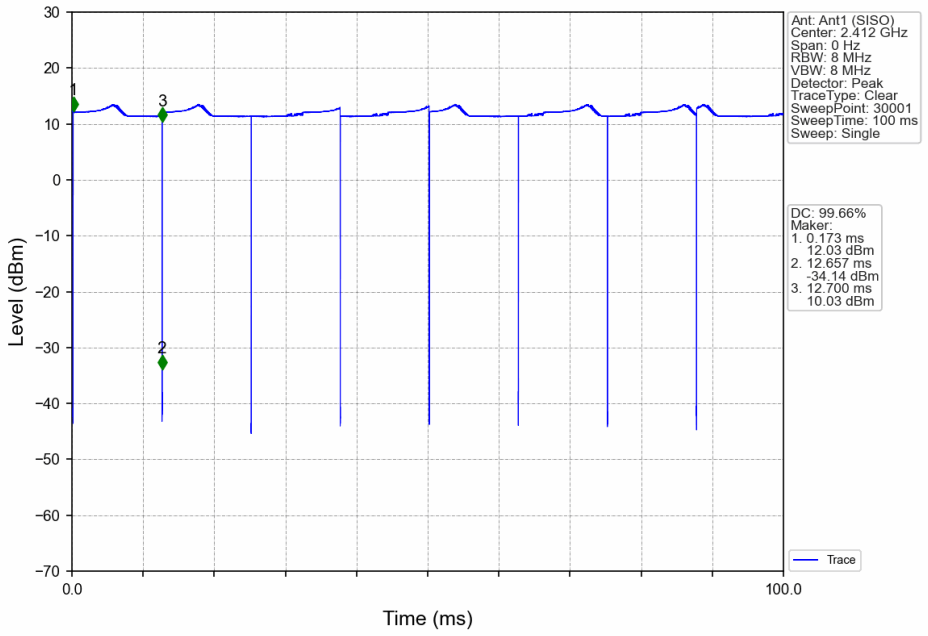
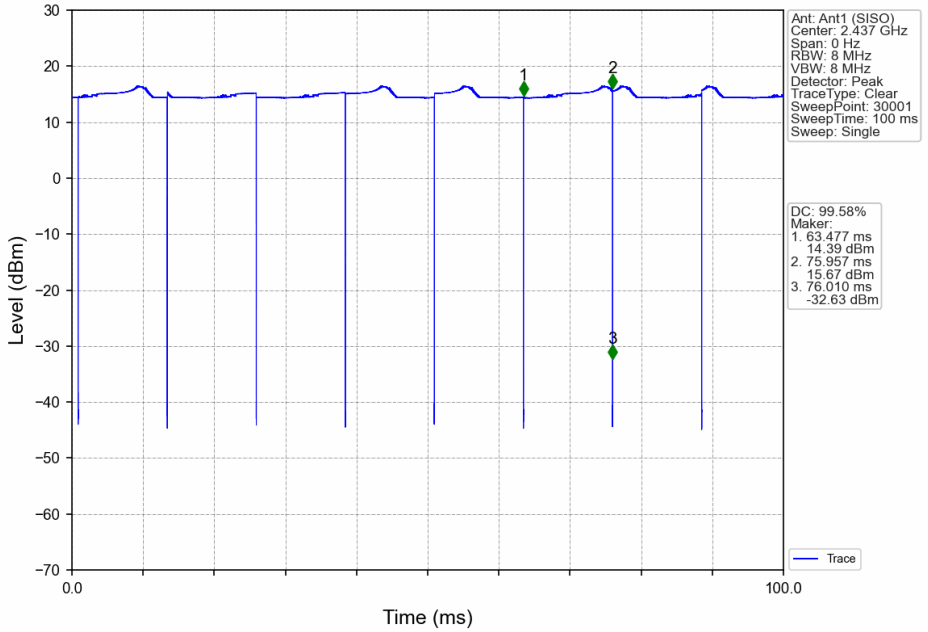
1.2.2 Test Graph

802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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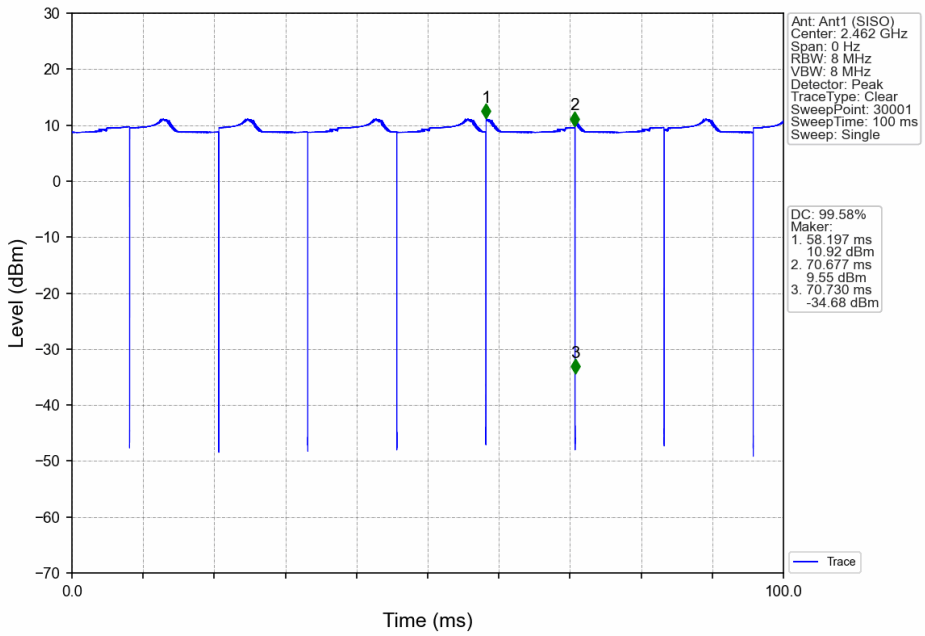
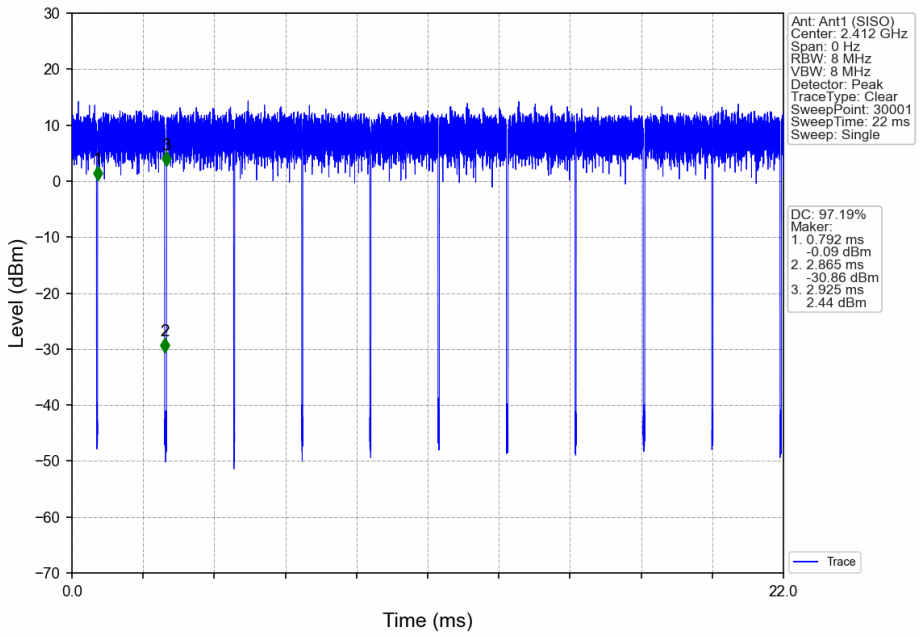
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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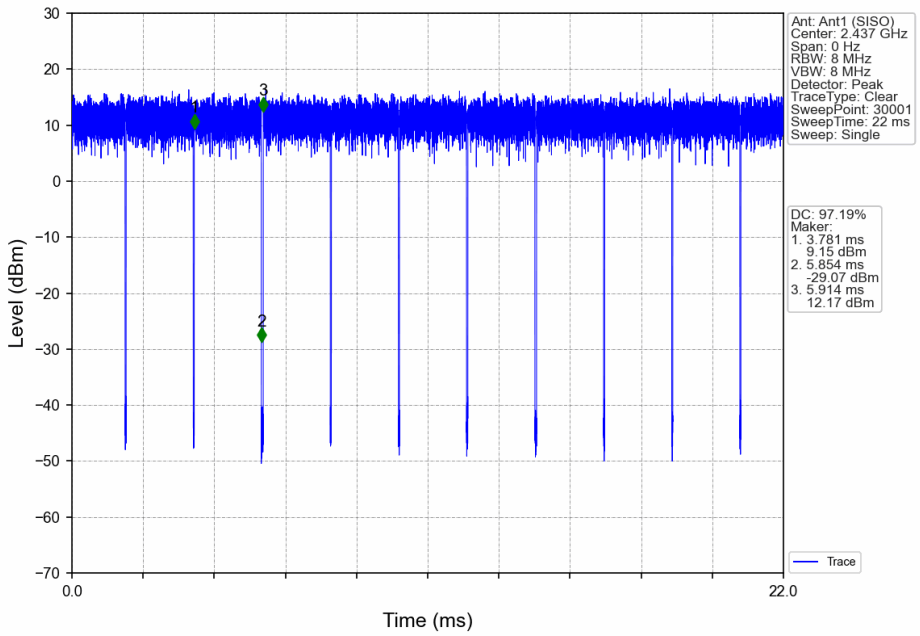
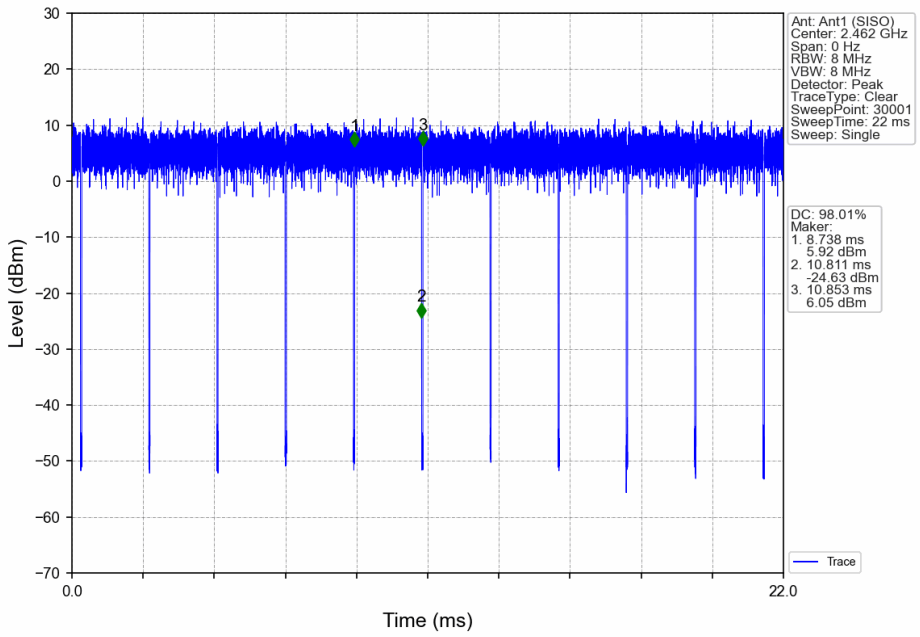
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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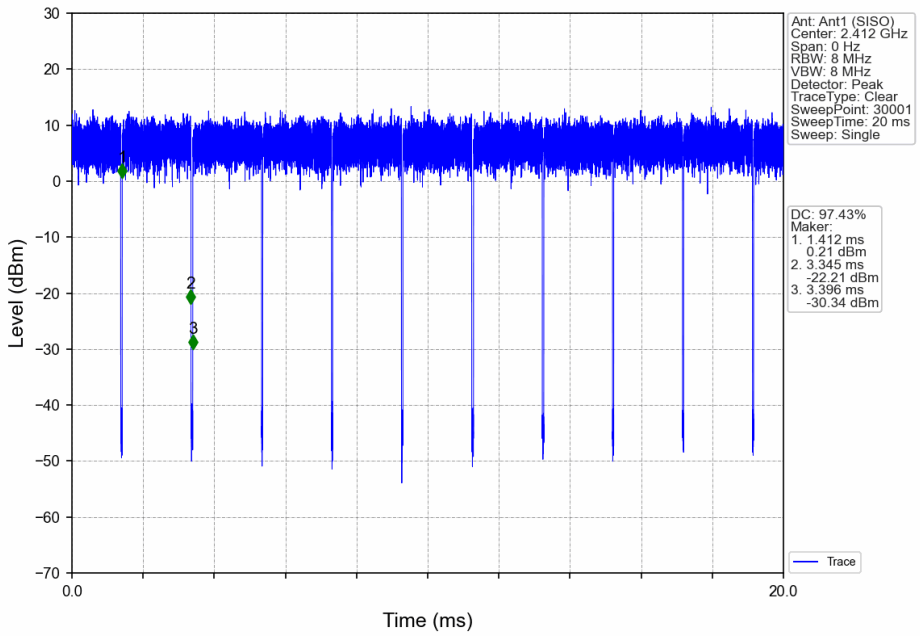
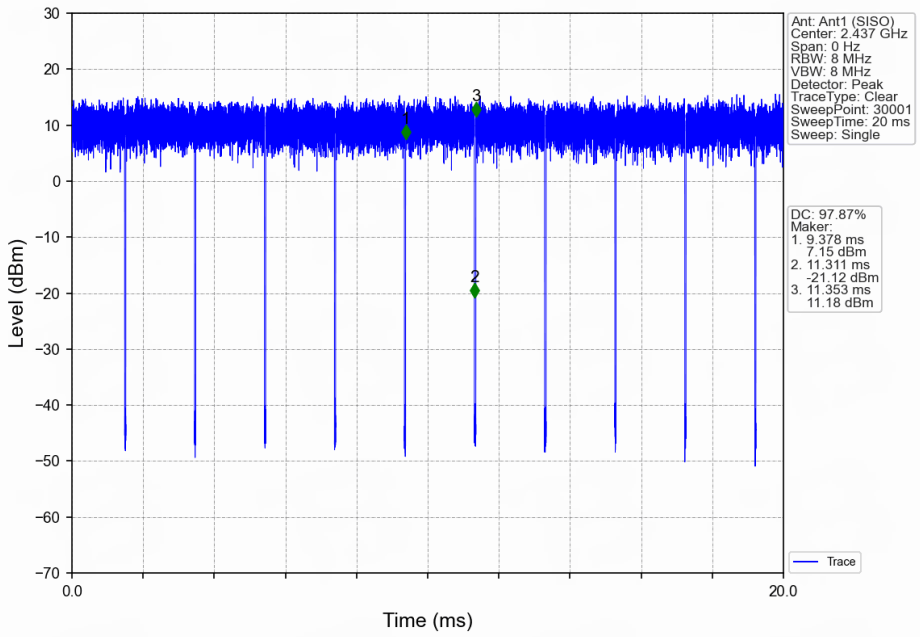
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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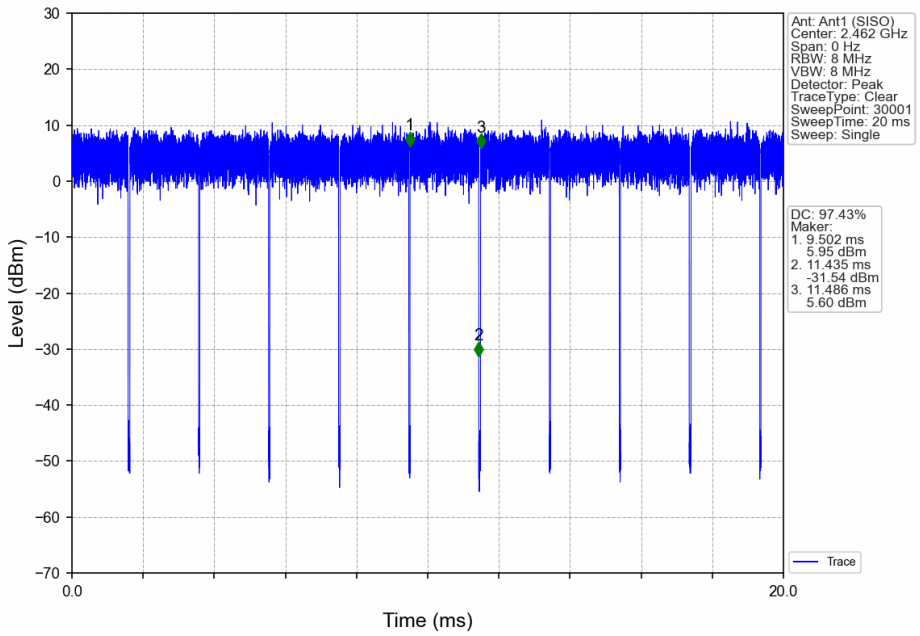
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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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	12.847	Pass
		2437	1	12.810	Pass
		2462	1	12.791	Pass
802.11g	SISO	2412	1	17.453	Pass
		2437	1	17.472	Pass
		2462	1	17.454	Pass
802.11b	SISO	2412	2	12.074	Pass
		2437	2	12.039	Pass
		2462	2	12.247	Pass
802.11g	SISO	2412	2	18.700	Pass
		2437	2	18.205	Pass
		2462	2	19.226	Pass
802.11n (HT20)	MIMO	2412	1&2	18.272	Pass
		2437	1&2	18.220	Pass
		2462	1&2	18.266	Pass

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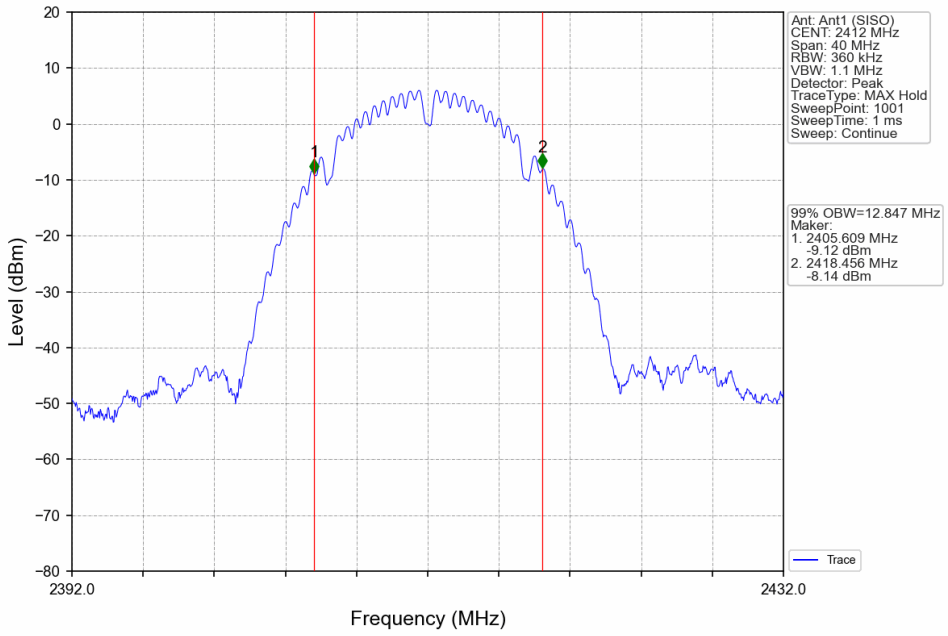
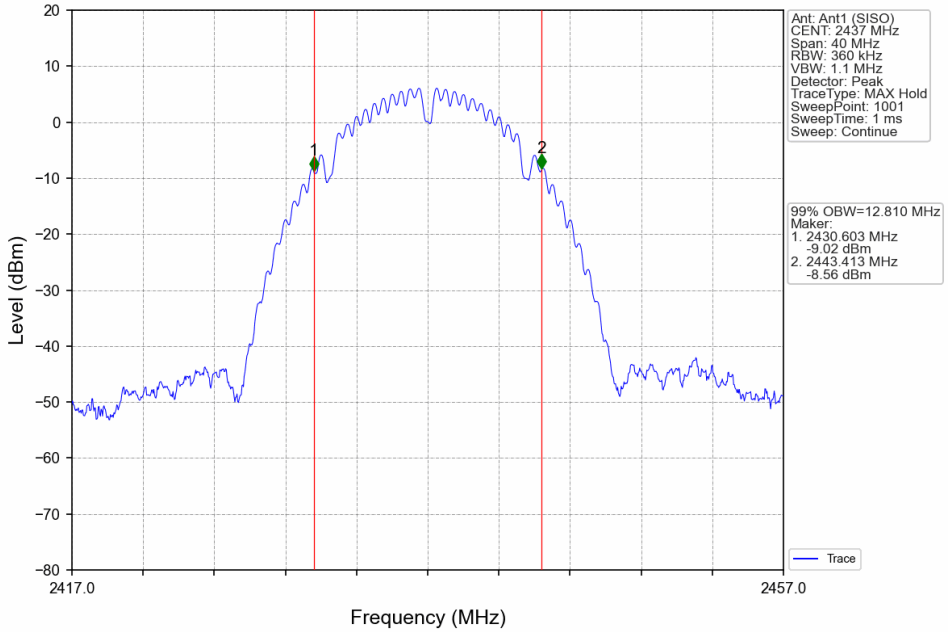
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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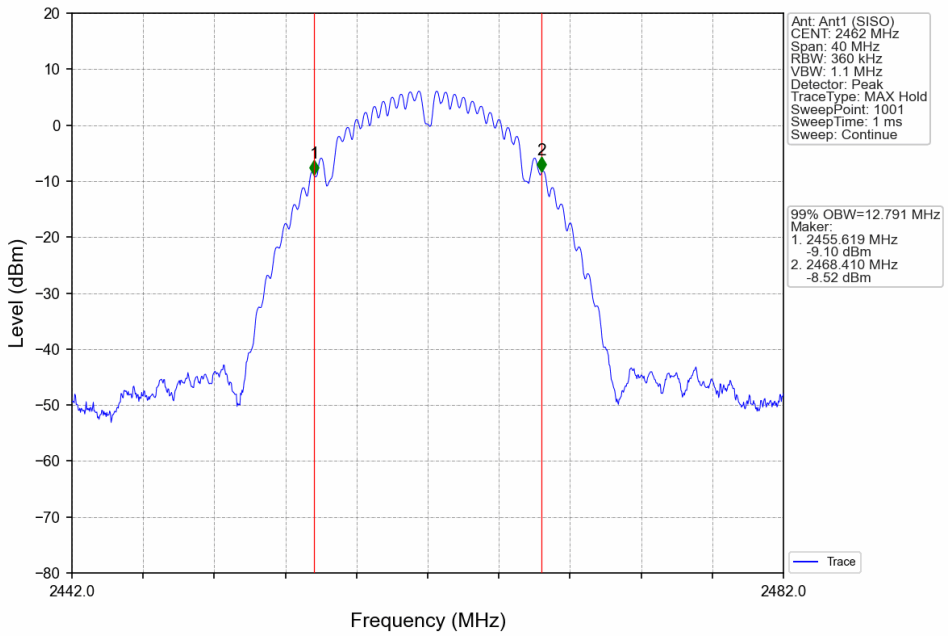
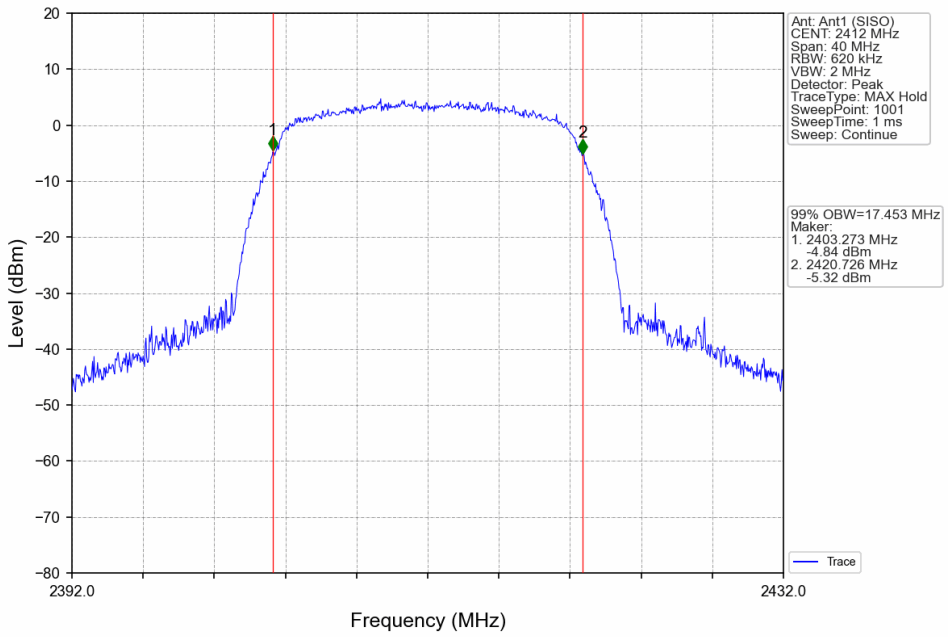
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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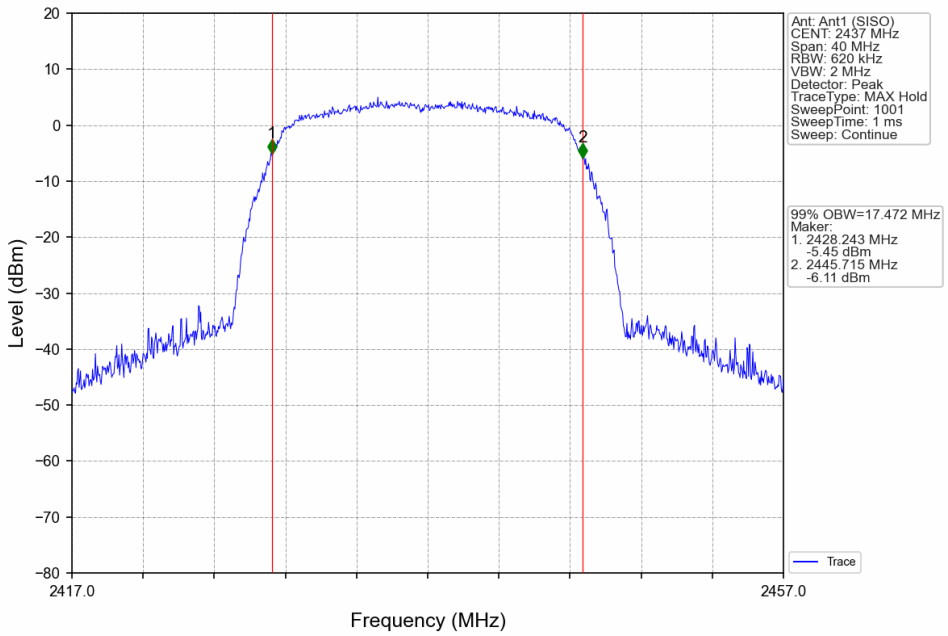
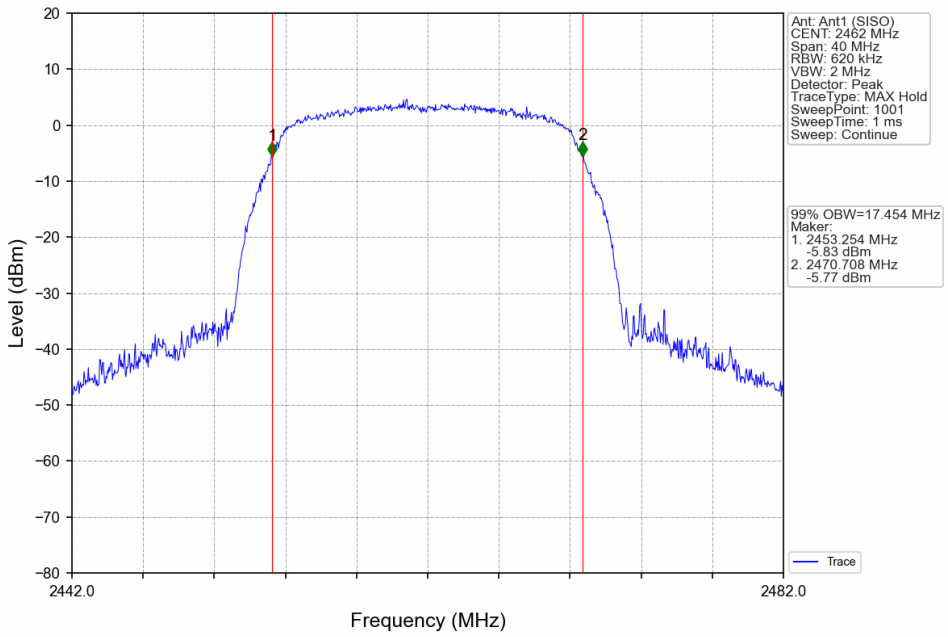
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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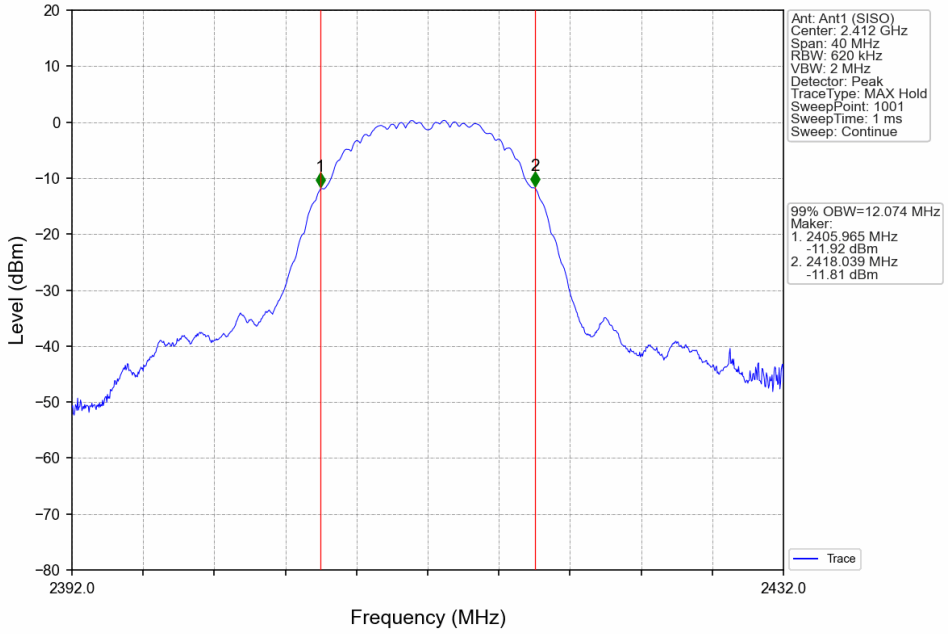
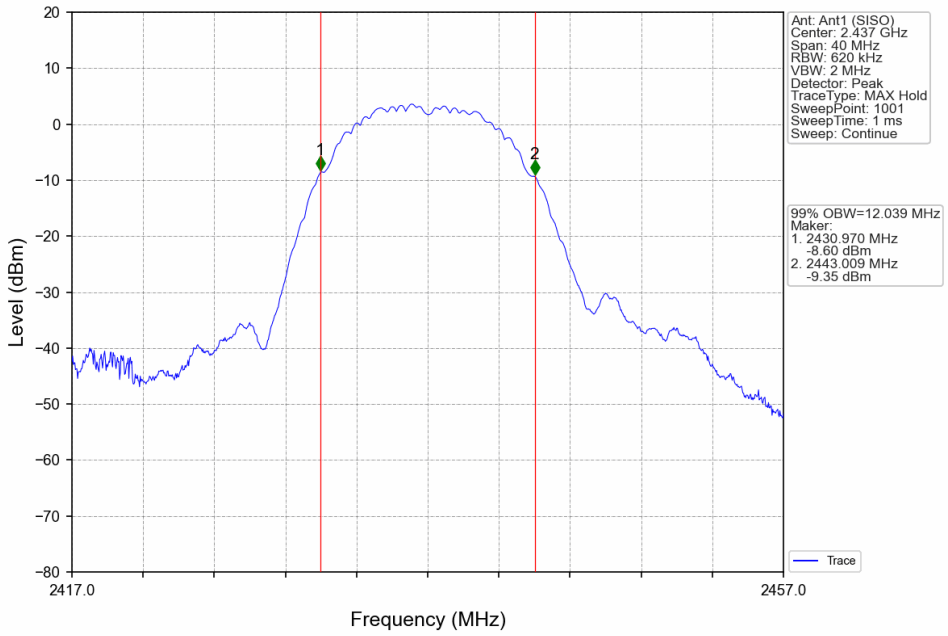
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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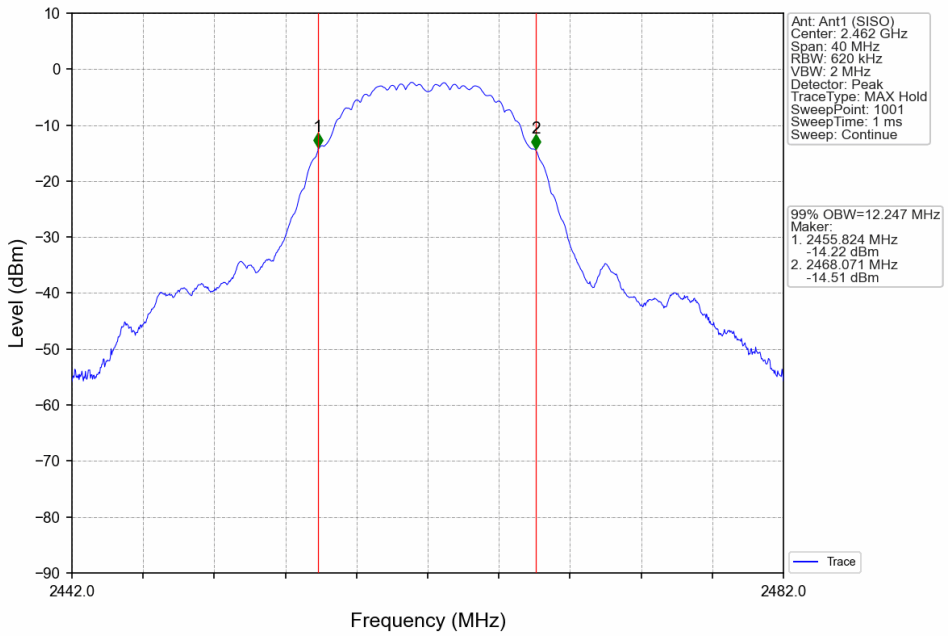
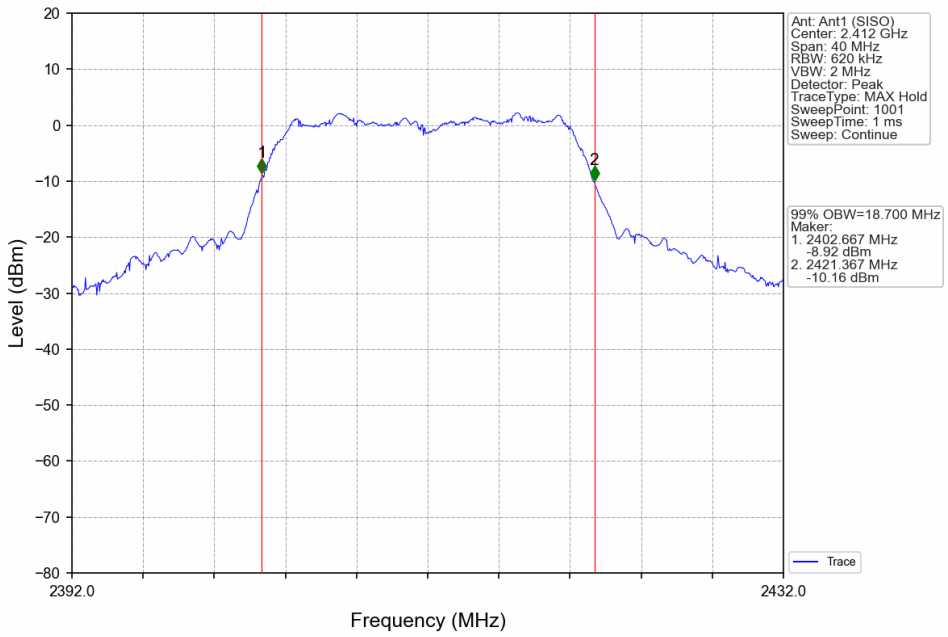
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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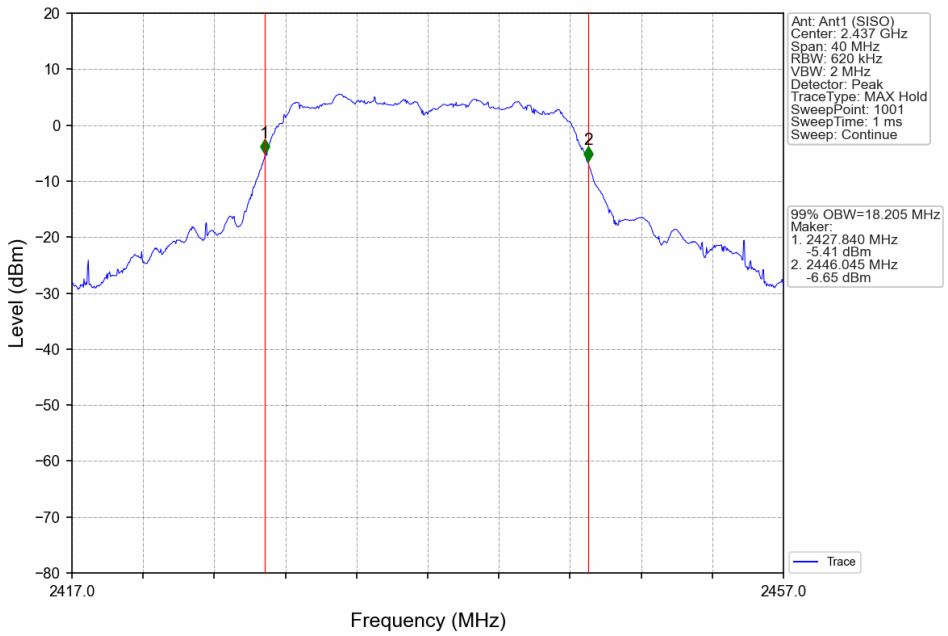
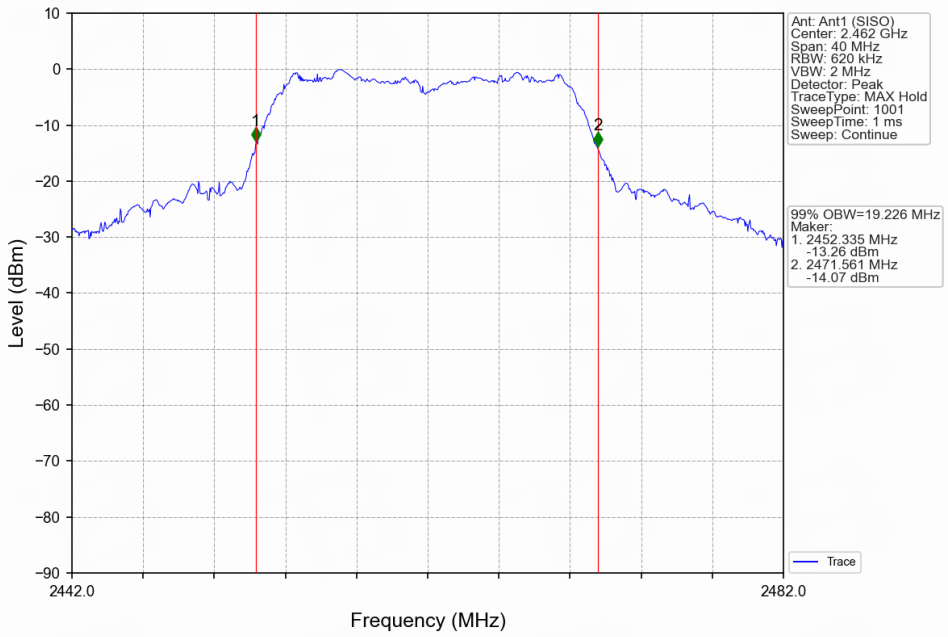
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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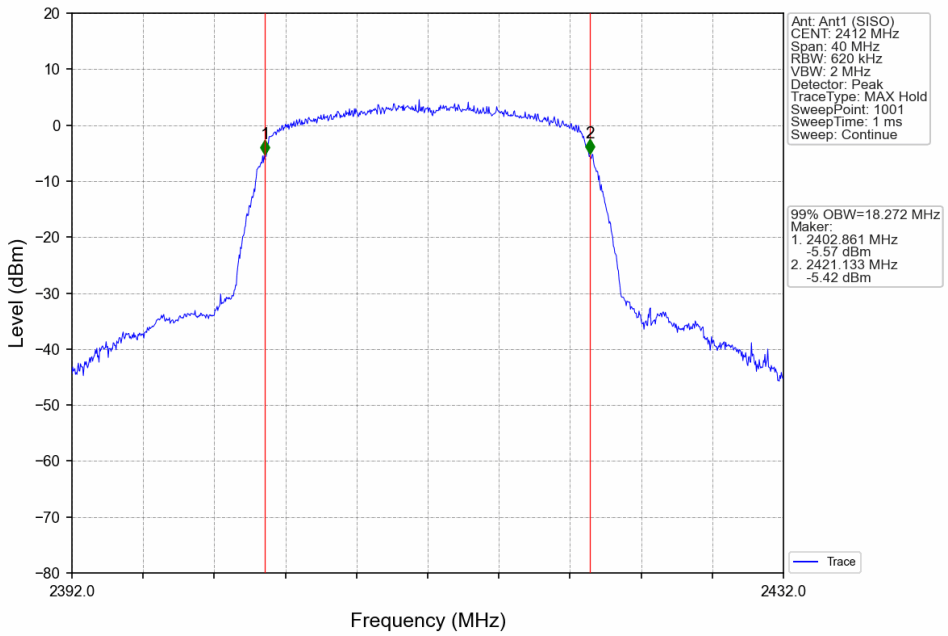
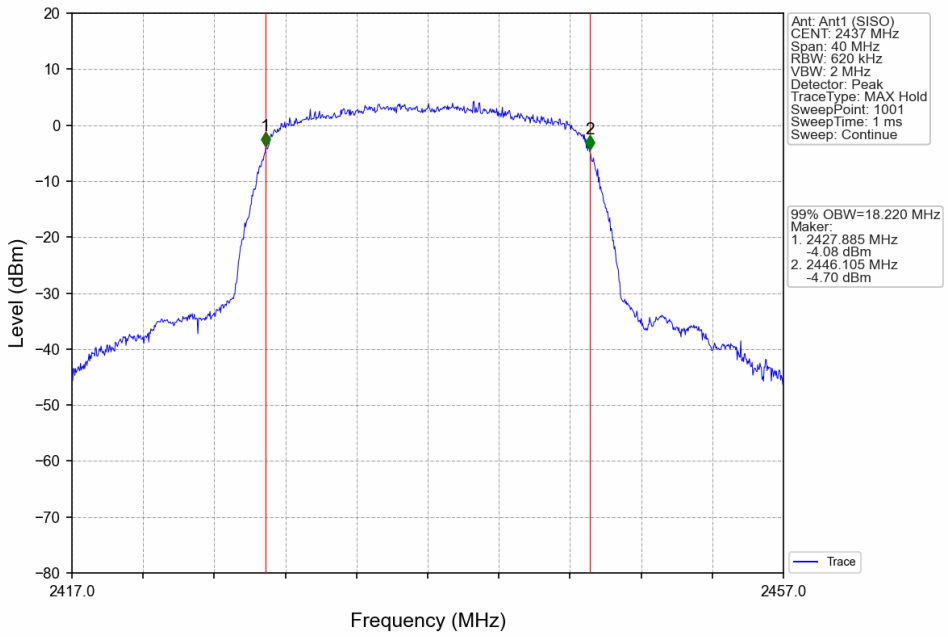
802.11n(HT20)_LCH_2412MHz_Ant1&2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1&2 (MIMO)_NTNV



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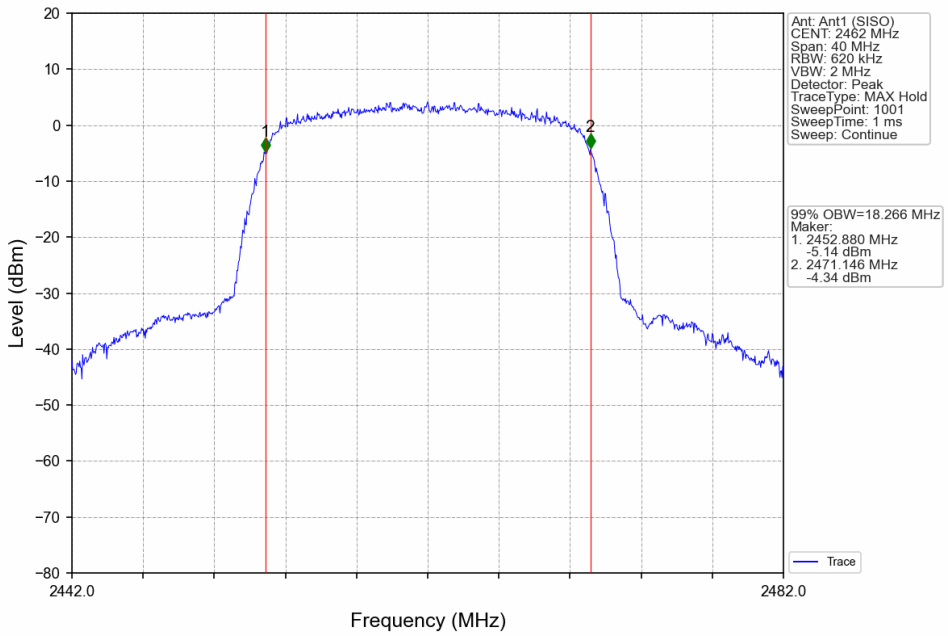
802.11n(HT20)_HCH_2462MHz_Ant1&2 (MIMO)_NTNV



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	8.097	>=0.5	Pass
		2437	1	8.095	>=0.5	Pass
		2462	1	8.108	>=0.5	Pass
802.11g	SISO	2412	1	15.171	>=0.5	Pass
		2437	1	15.161	>=0.5	Pass
		2462	1	15.174	>=0.5	Pass
802.11b	SISO	2412	2	9.151	>=0.5	Pass
		2437	2	9.107	>=0.5	Pass
		2462	2	9.182	>=0.5	Pass
802.11g	SISO	2412	2	16.459	>=0.5	Pass
		2437	2	15.789	>=0.5	Pass
		2462	2	16.465	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1&2	15.171	>=0.5	Pass
		2437	1&2	15.175	>=0.5	Pass
		2462	1&2	15.171	>=0.5	Pass

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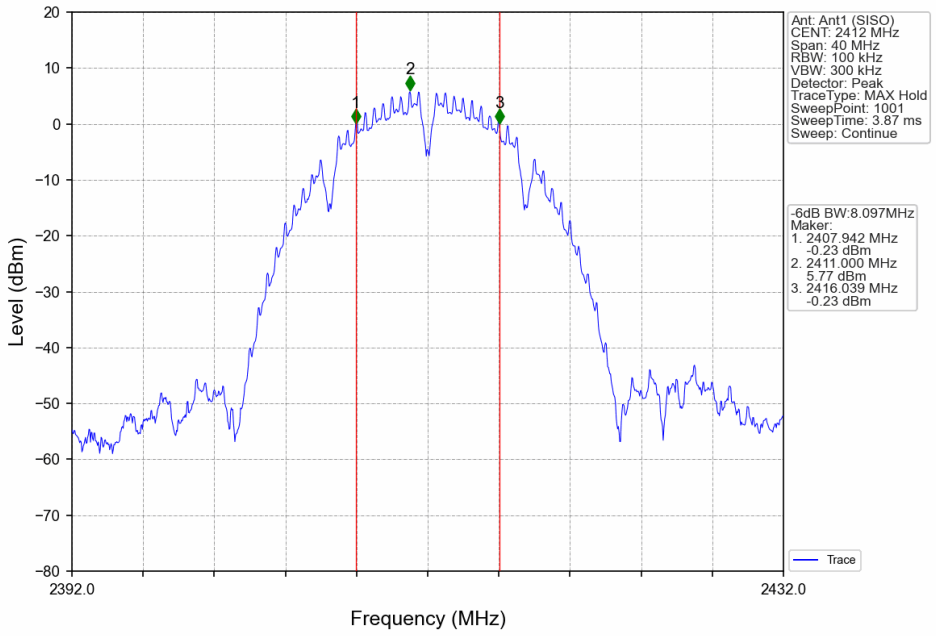
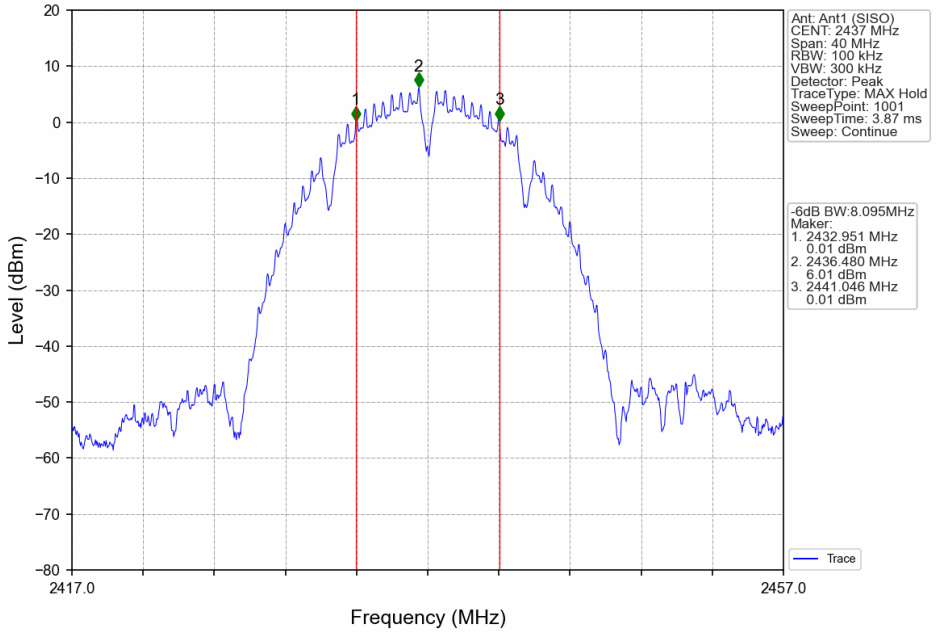
2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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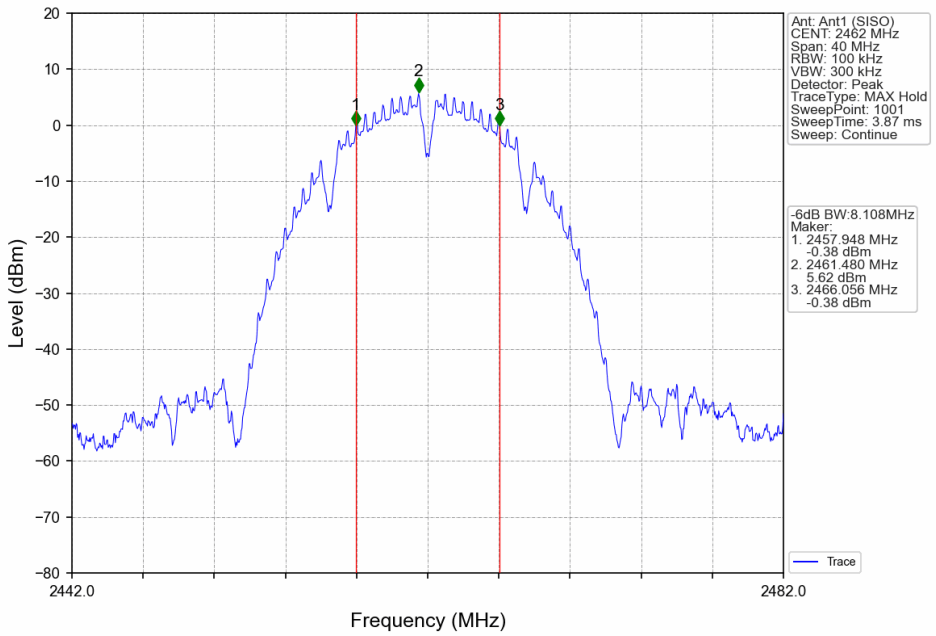
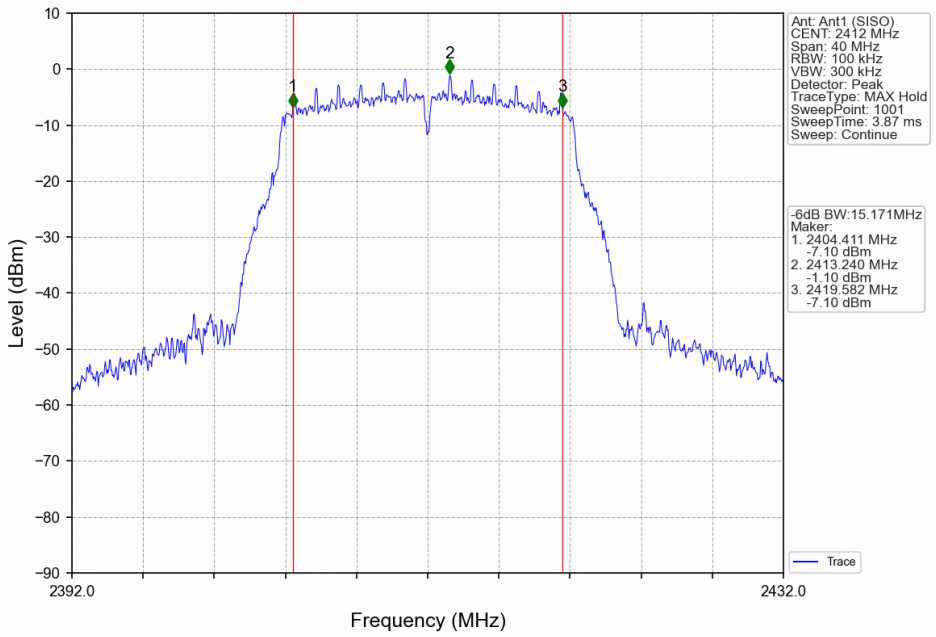
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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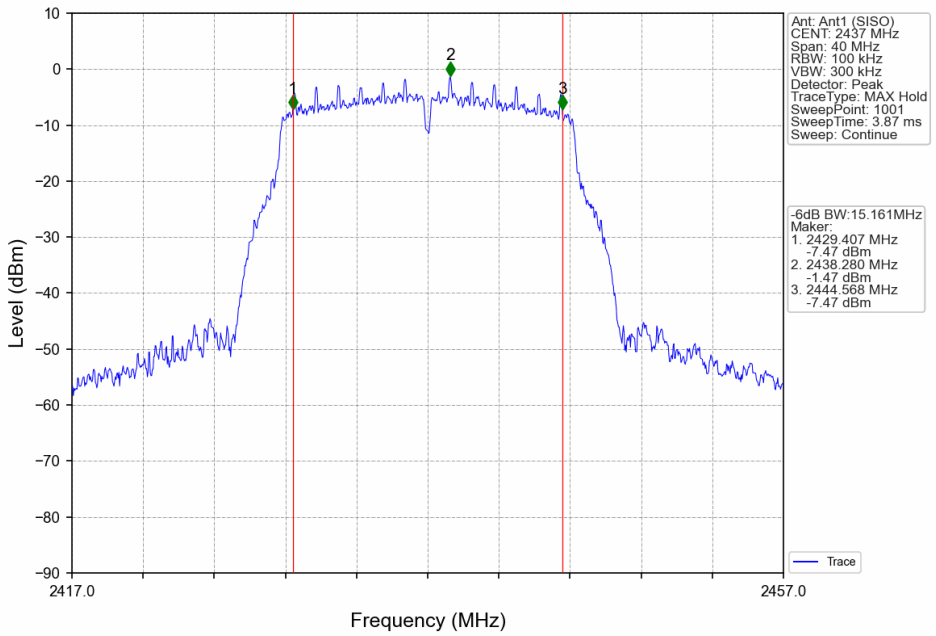
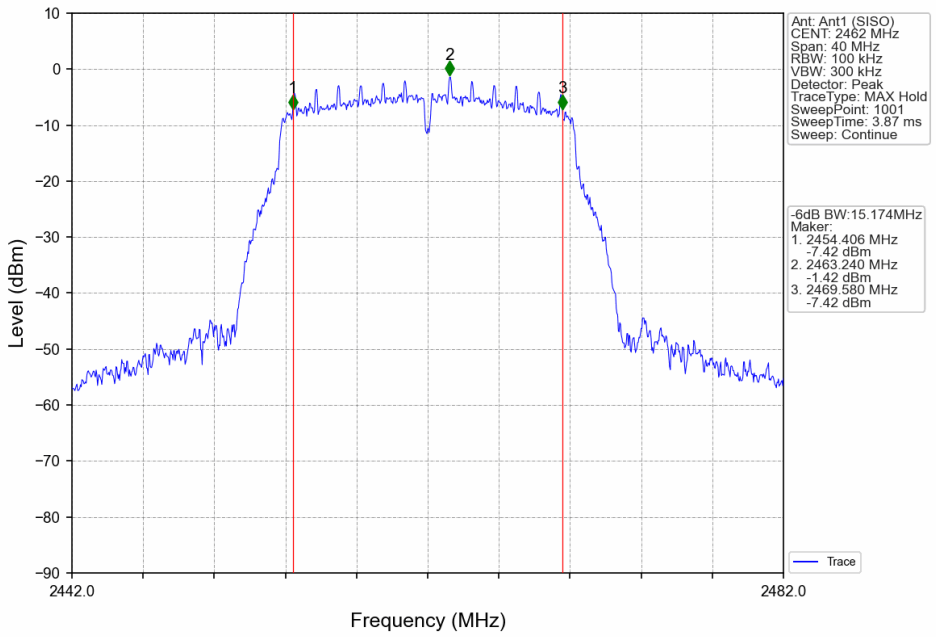
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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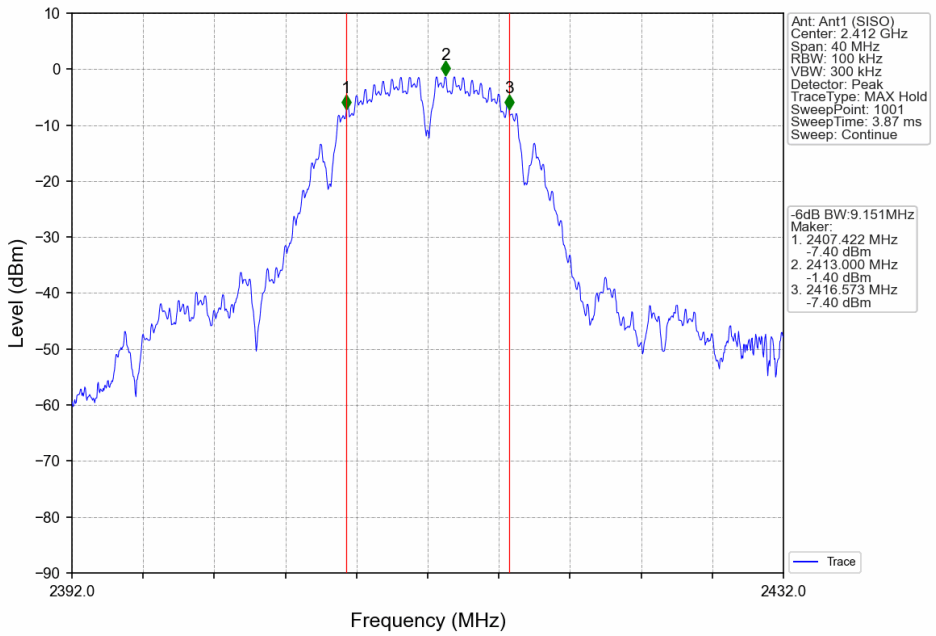
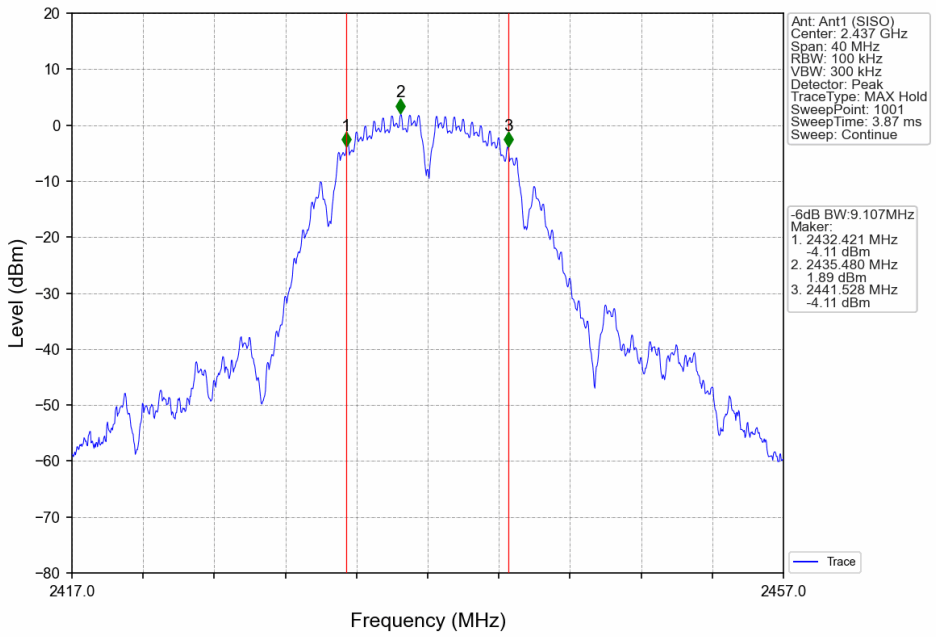
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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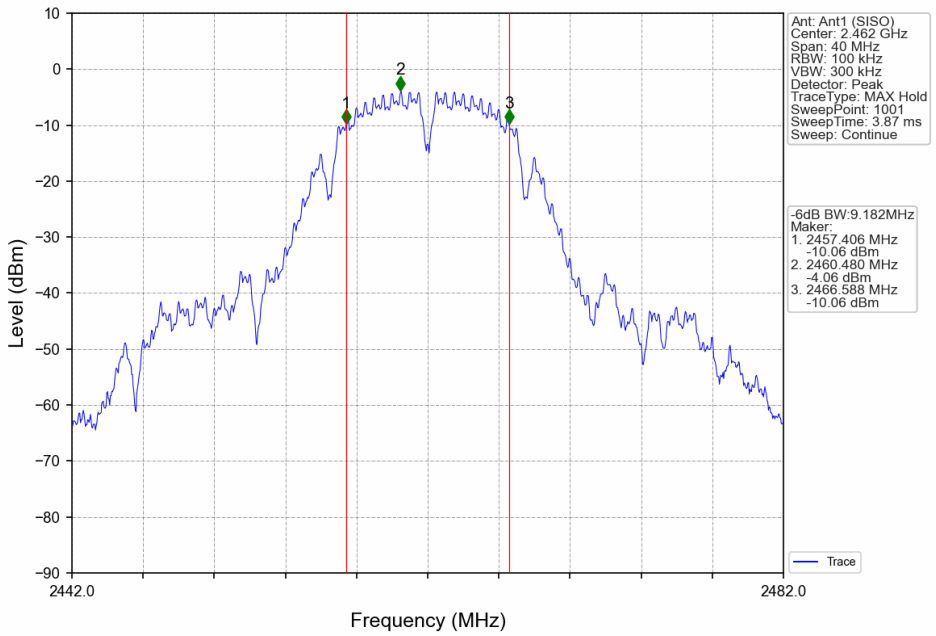
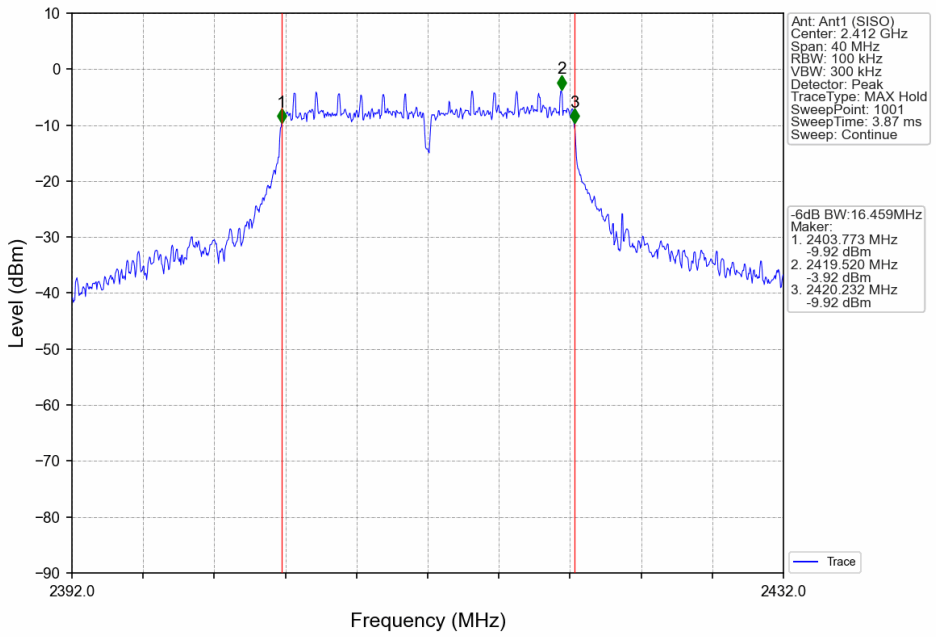
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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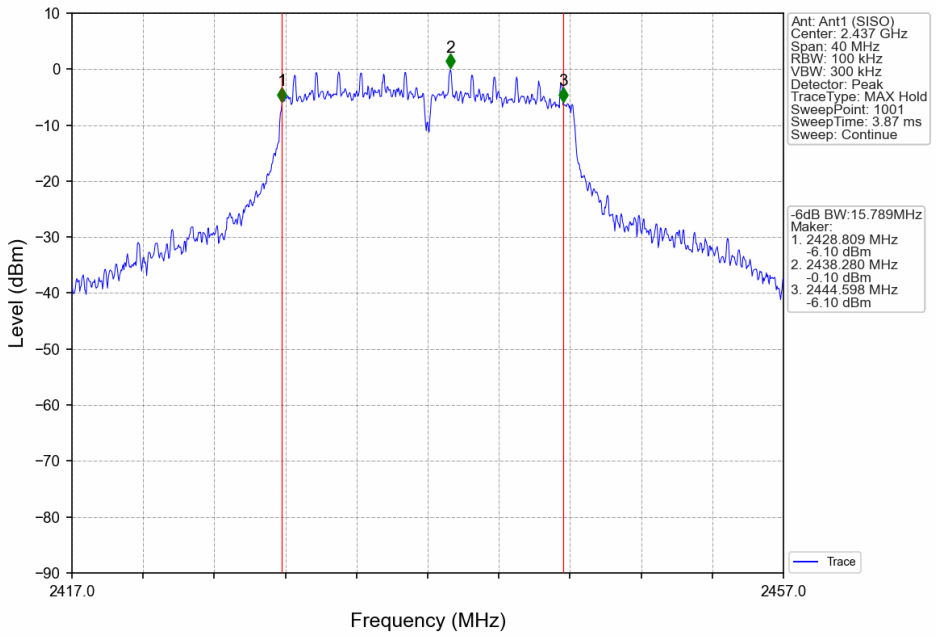
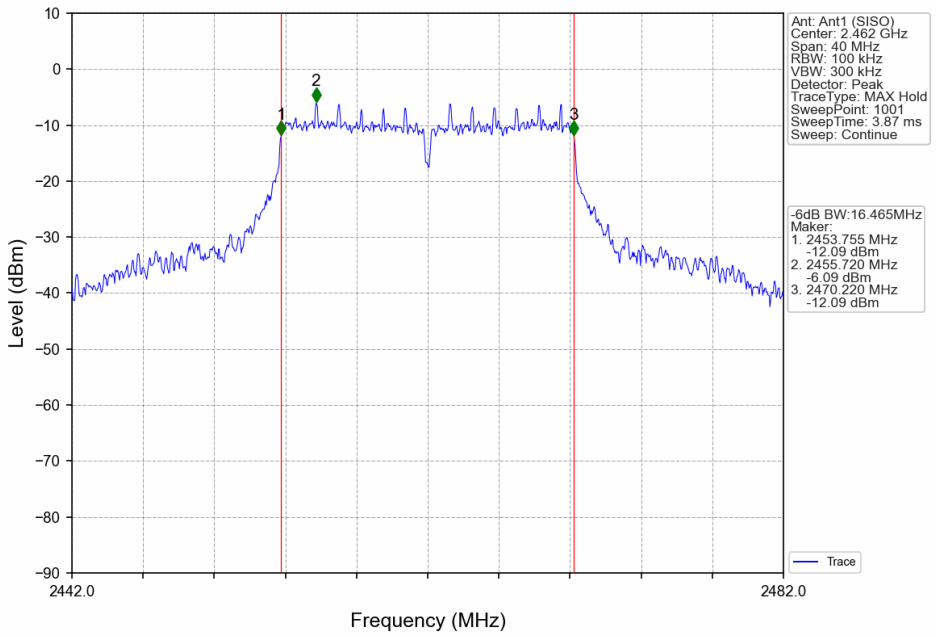
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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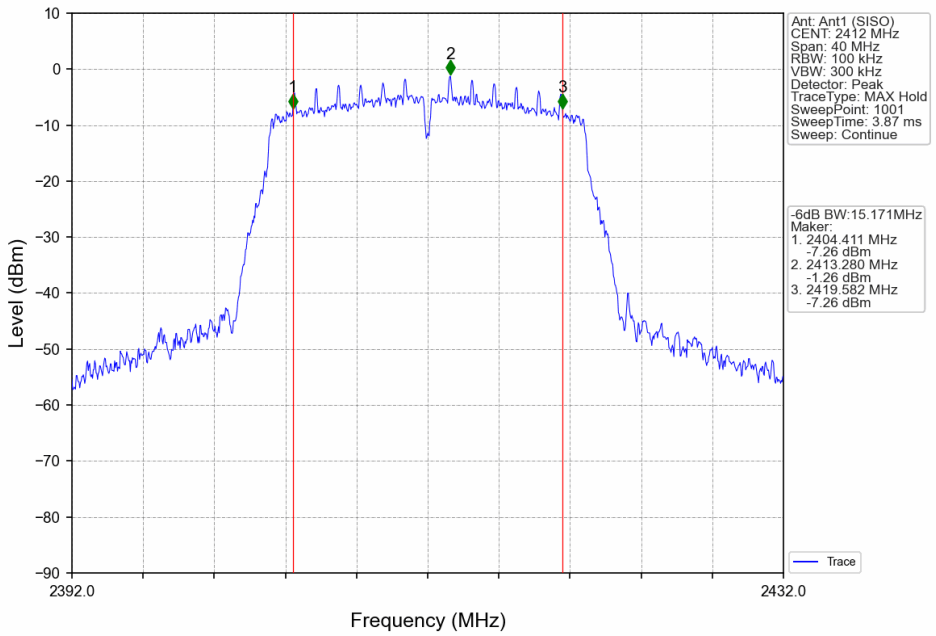
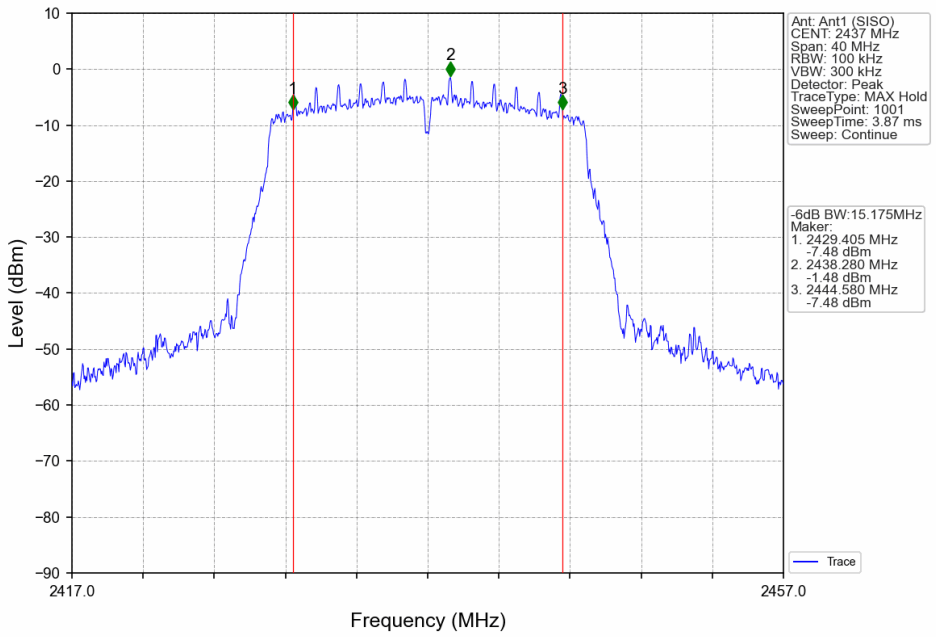
802.11n(HT20)_LCH_2412MHz_Ant1&2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1&2 (MIMO)_NTNV



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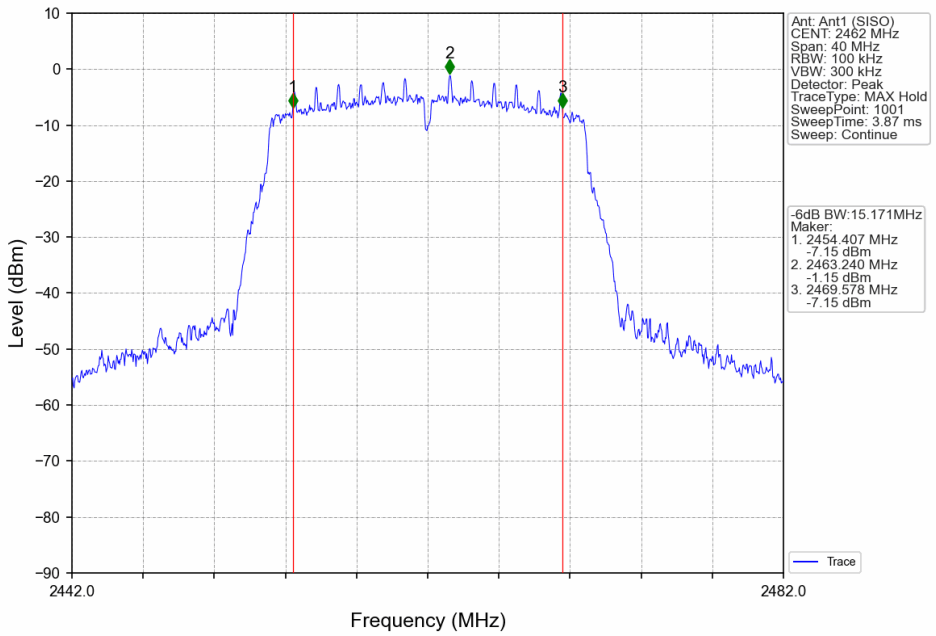
802.11n(HT20)_HCH_2462MHz_Ant1&2 (MIMO)_NTNV



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	16.10	10.90	/	<=30	Pass
		2437	16.13	13.90	/	<=30	Pass
		2462	16.16	8.28	/	<=30	Pass
802.11g	SISO	2412	16.40	15.36	/	<=30	Pass
		2437	16.22	18.12	/	<=30	Pass
		2462	16.23	12.85	/	<=30	Pass
802.11n (HT20)	MIMO	2412	16.17	14.46	18.41	<=30	Pass
		2437	16.20	17.28	19.78	<=30	Pass
		2462	16.27	12.31	17.73	<=30	Pass

Note1: Antenna Gain: Ant1: 2.00dBi; Ant2: 2.00dBi;

Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)

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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-9.38	-17.07	/	<=8	Pass
		2437	-7.03	-4.09	/	<=8	Pass
		2462	-7.90	-17.05	/	<=8	Pass
802.11g	SISO	2412	-15.71	-19.45	/	<=8	Pass
		2437	-15.73	-16.31	/	<=8	Pass
		2462	-16.15	-21.79	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.89	-20.94	-13.92	<=8	Pass
		2437	-15.16	-17.05	-12.99	<=8	Pass
		2462	-16.77	-22.56	-15.75	<=8	Pass

Note1: Antenna Gain: Ant1: 2.0dBi; Ant2: 2.0dBi;

Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)

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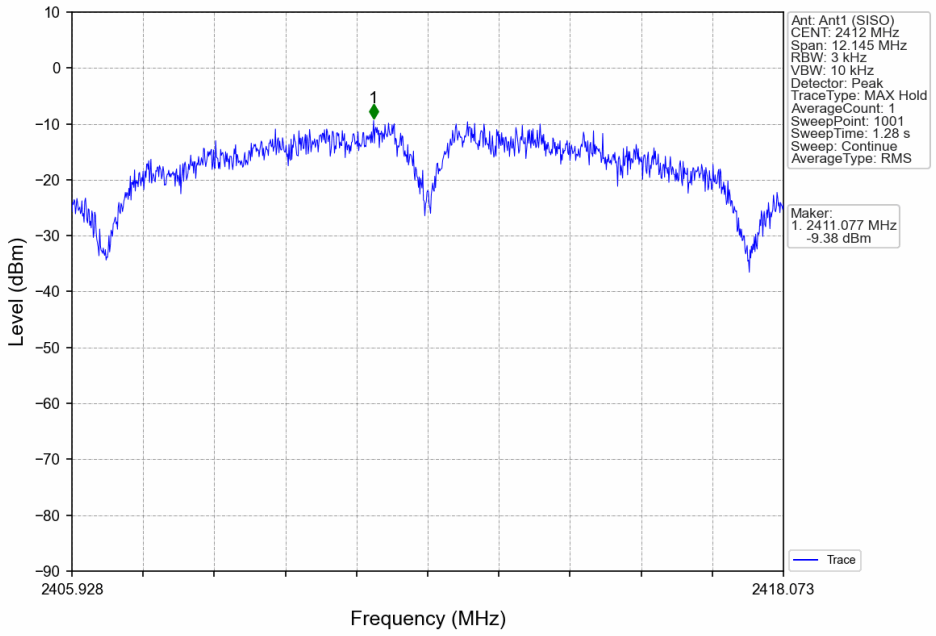
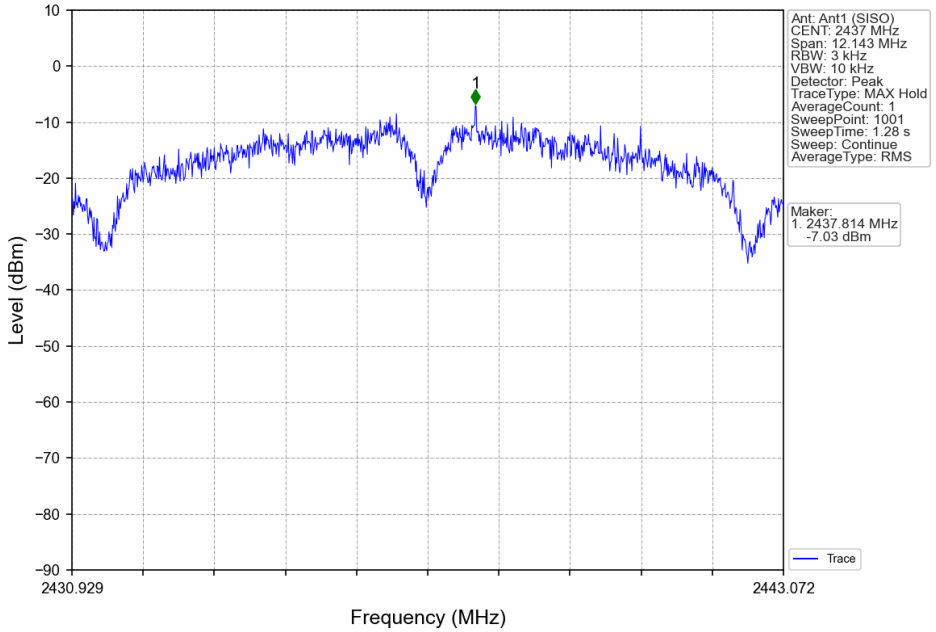
4.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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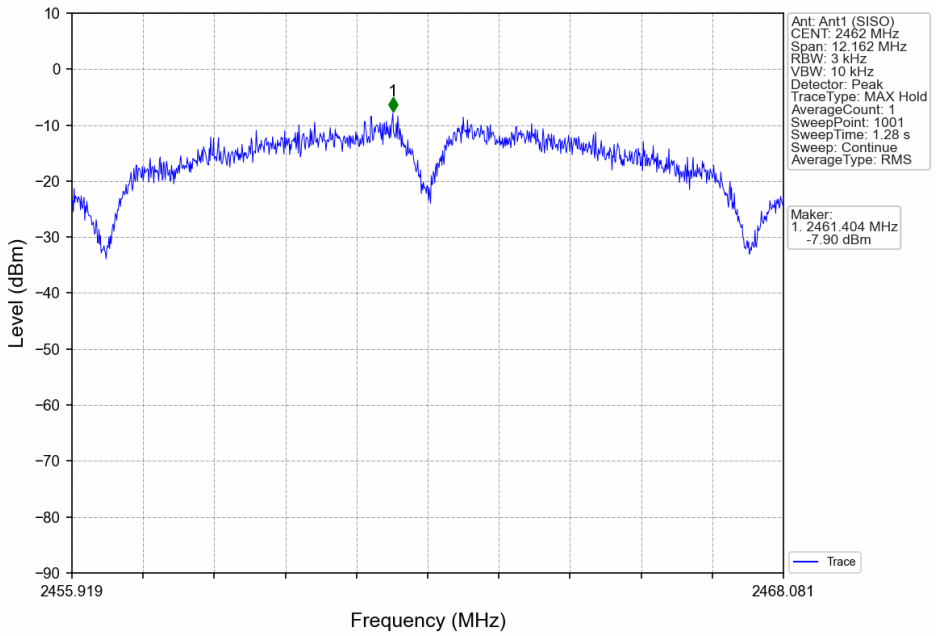
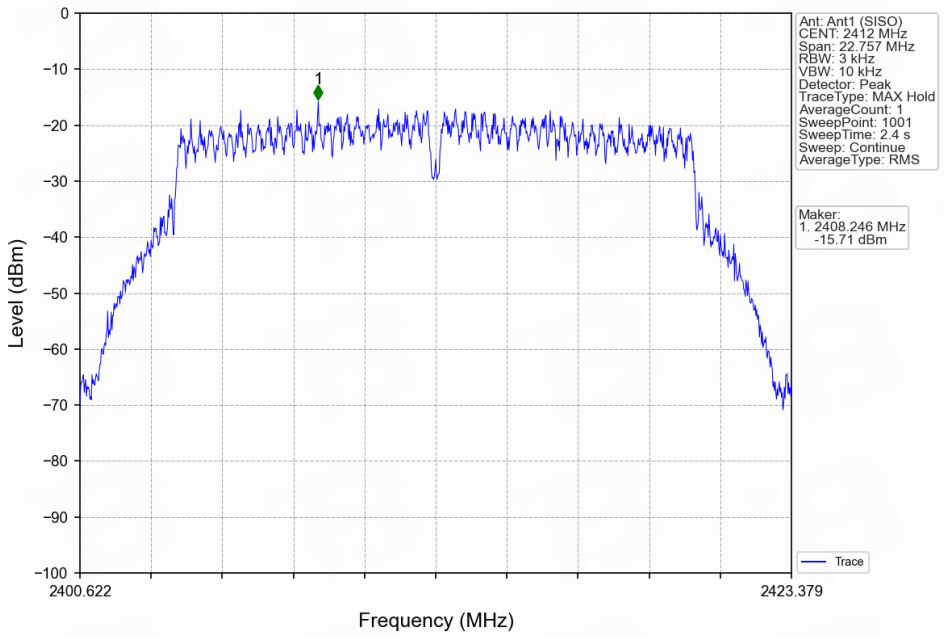
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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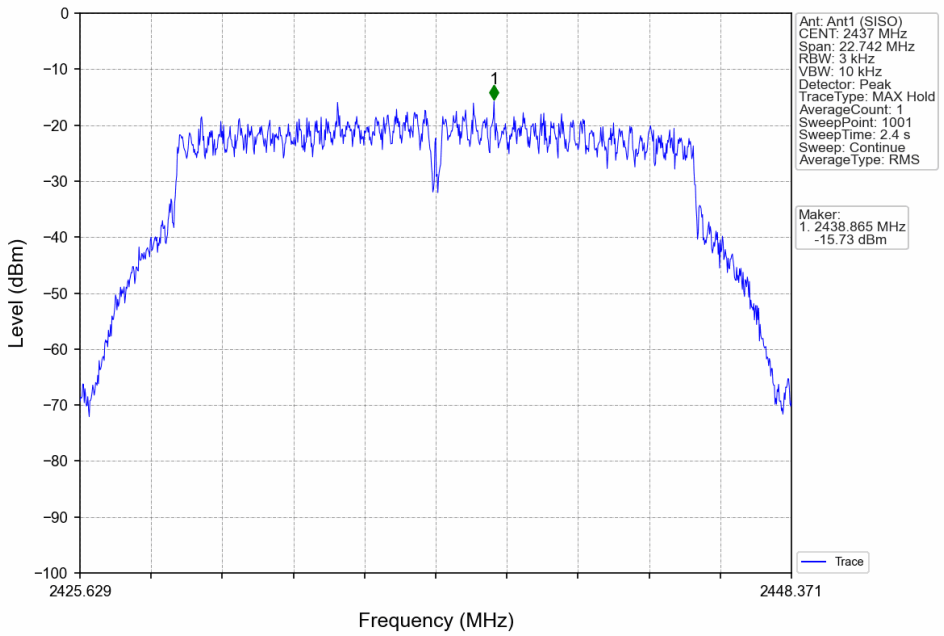
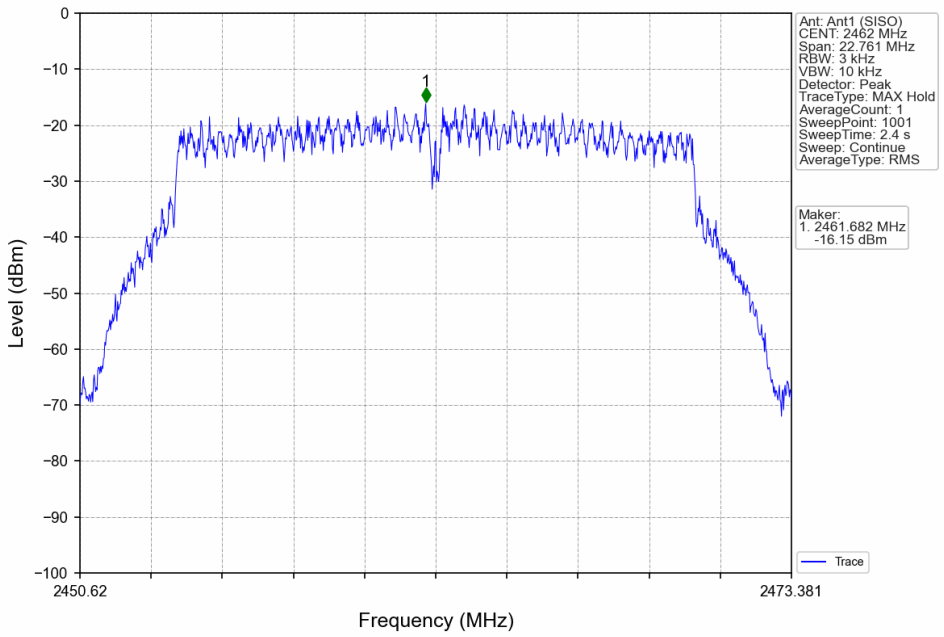
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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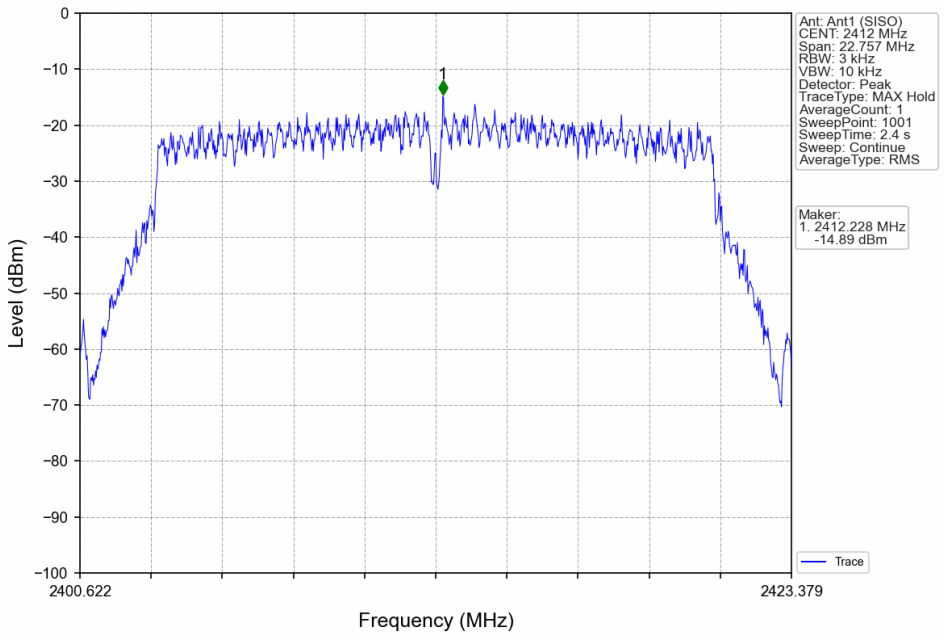
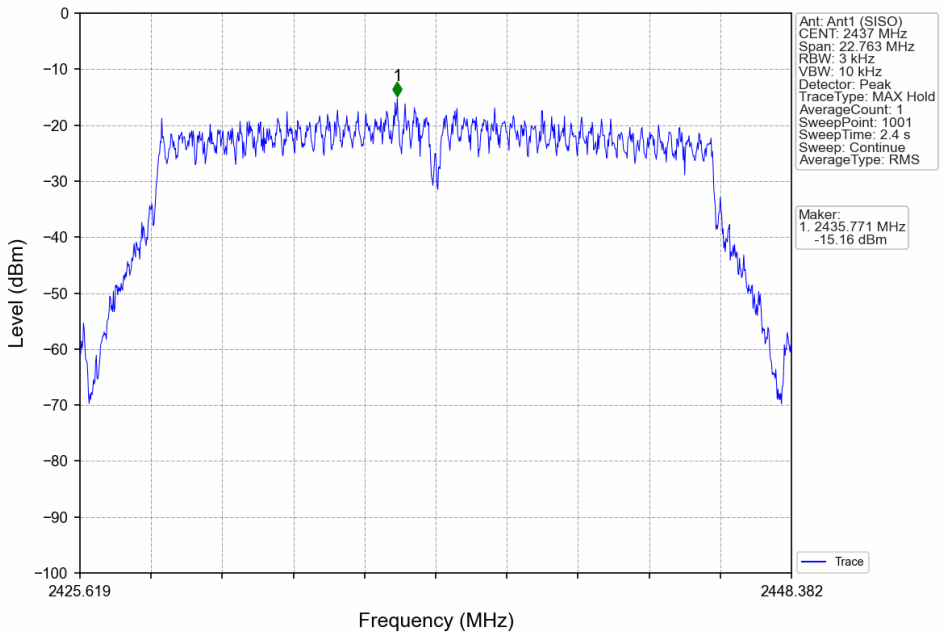
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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