10 Appendix

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 (%)
1M	SISO	2402	2.146	2.501	85.81	0.66	0.06
		2440	2.146	2.500	85.84	0.66	0.03
		2480	2.146	2.500	85.84	0.66	0.03
2M	SISO	2402	1.089	1.875	58.08	2.36	0.03
		2440	1.089	1.875	58.08	2.36	0.03
		2480	1.080	1.875	57.60	2.40	0.03
802.11b	SISO	2412	12.417	12.547	98.96	0.05	0.03
		2437	12.417	12.547	98.96	0.05	0.03
		2462	12.417	12.547	98.96	0.05	0.03
802.11g	SISO	2412	2.064	2.194	94.07	0.27	0.03
		2437	2.065	2.195	94.08	0.27	0.03
		2462	2.064	2.194	94.07	0.27	0.04
802.11n (HT20)	SISO	2412	1.920	2.049	93.70	0.28	0.04
		2437	1.921	2.050	93.71	0.28	0.04
		2462	1.921	2.050	93.71	0.28	0.04

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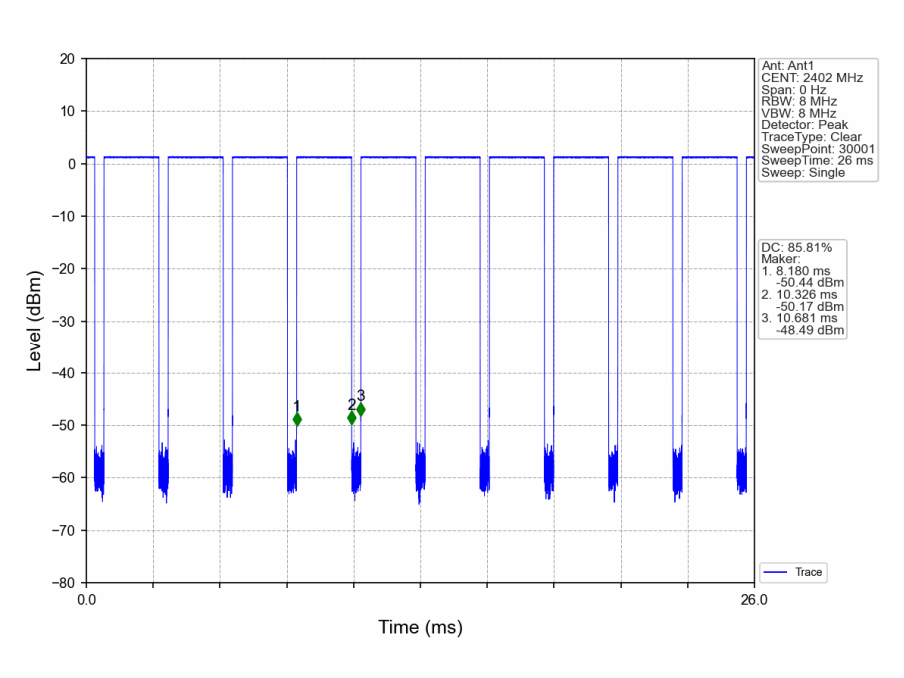
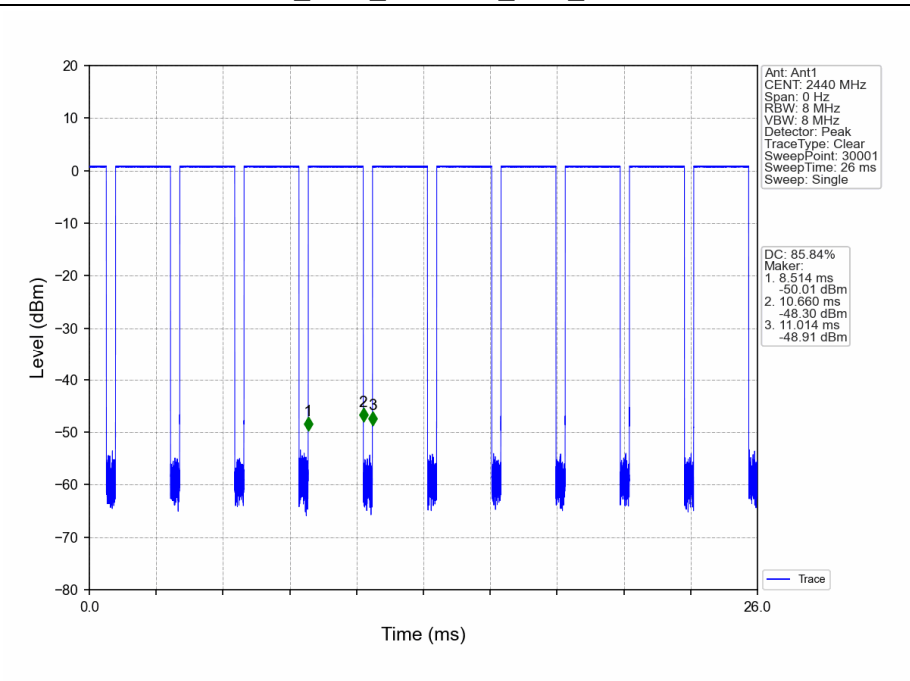
1.1.2 Test Graph

1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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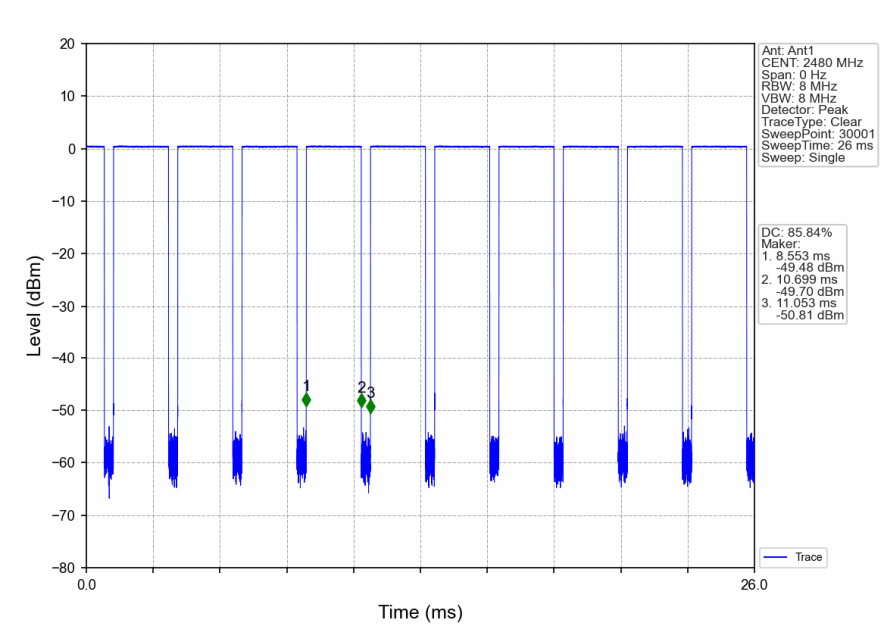
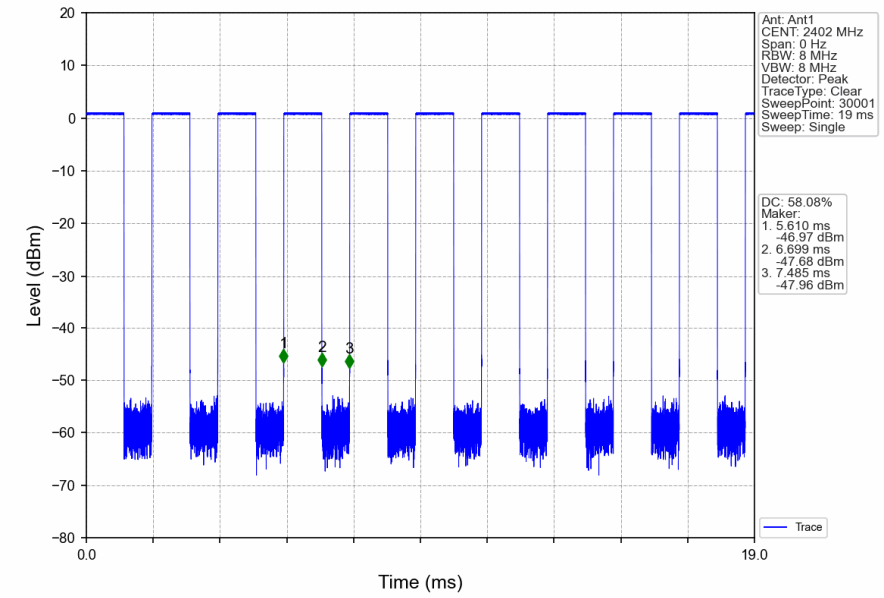
1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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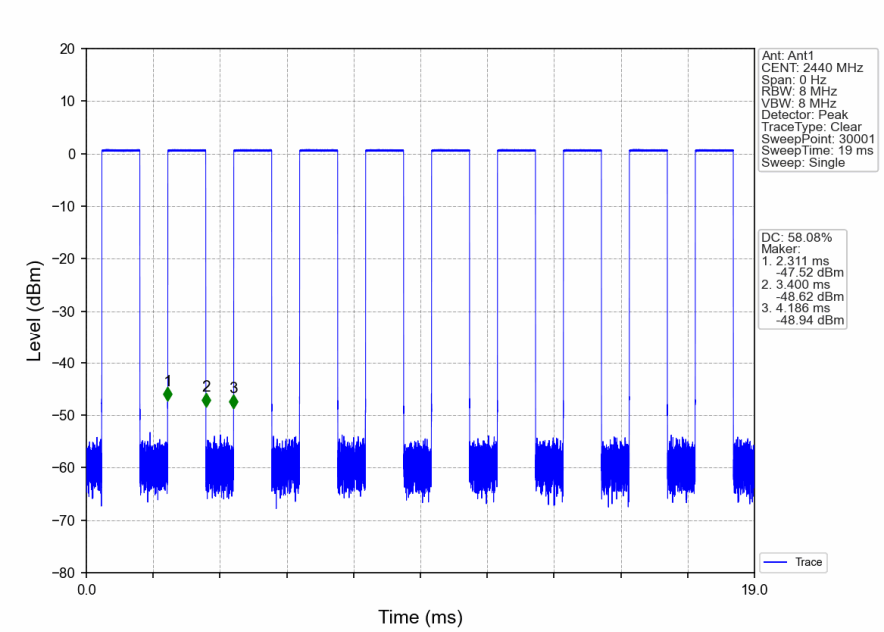
2M_MCH_2440MHz_Ant1_NTNV



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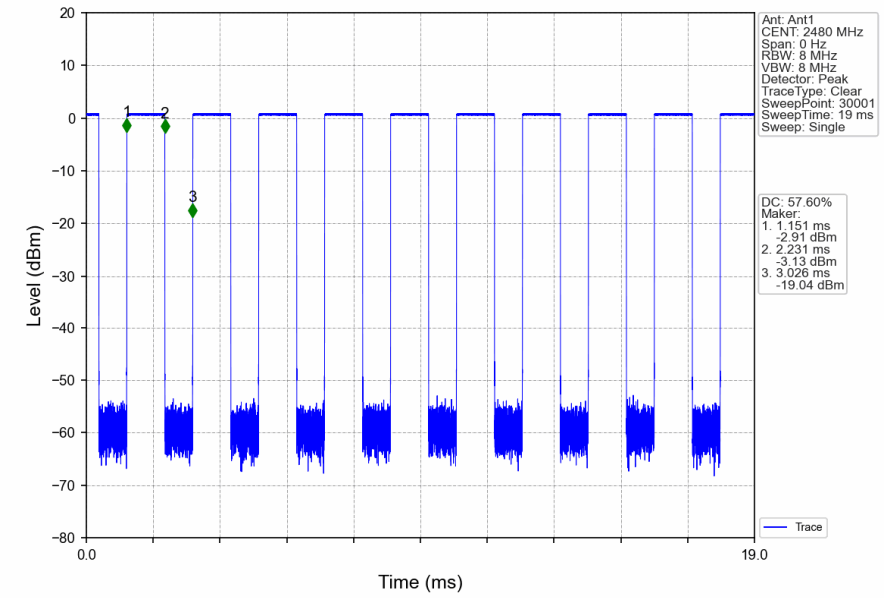

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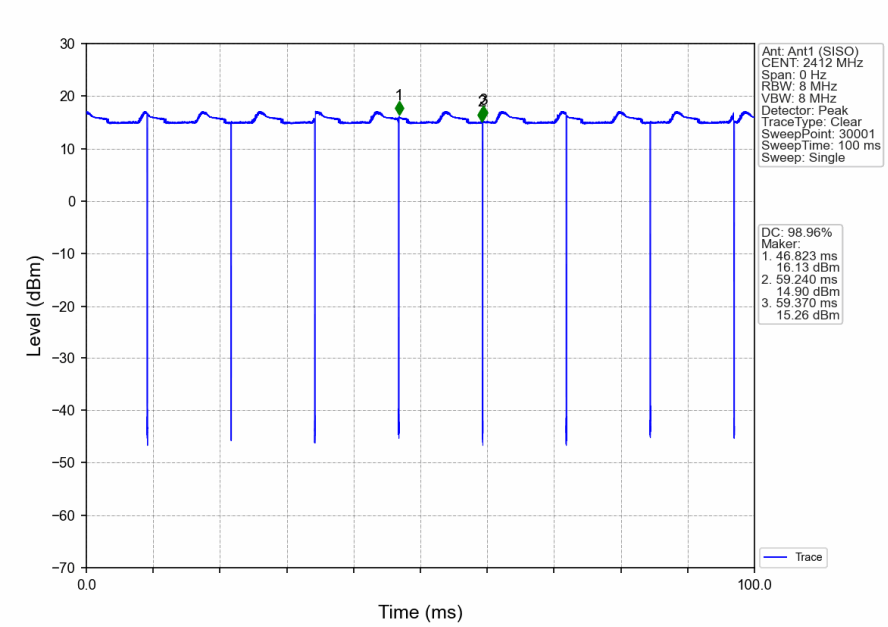
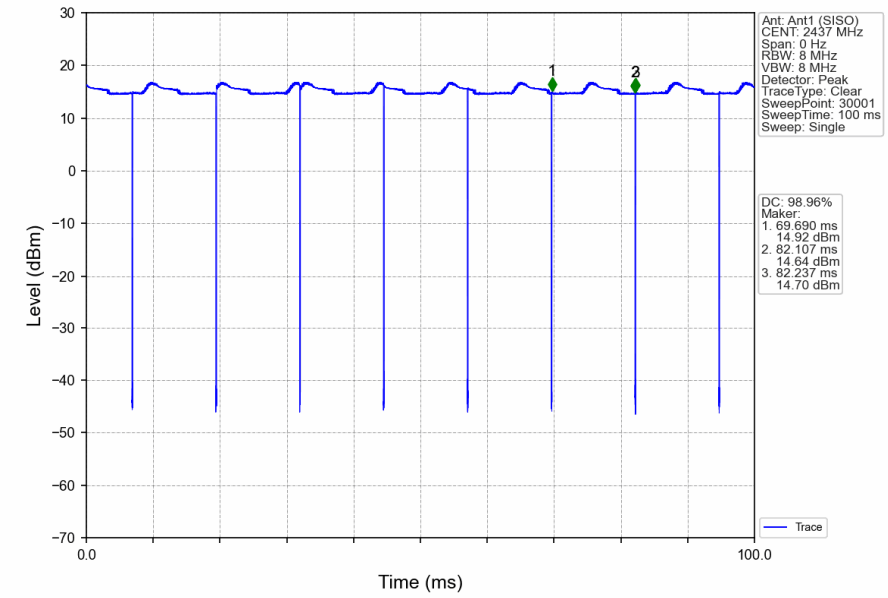
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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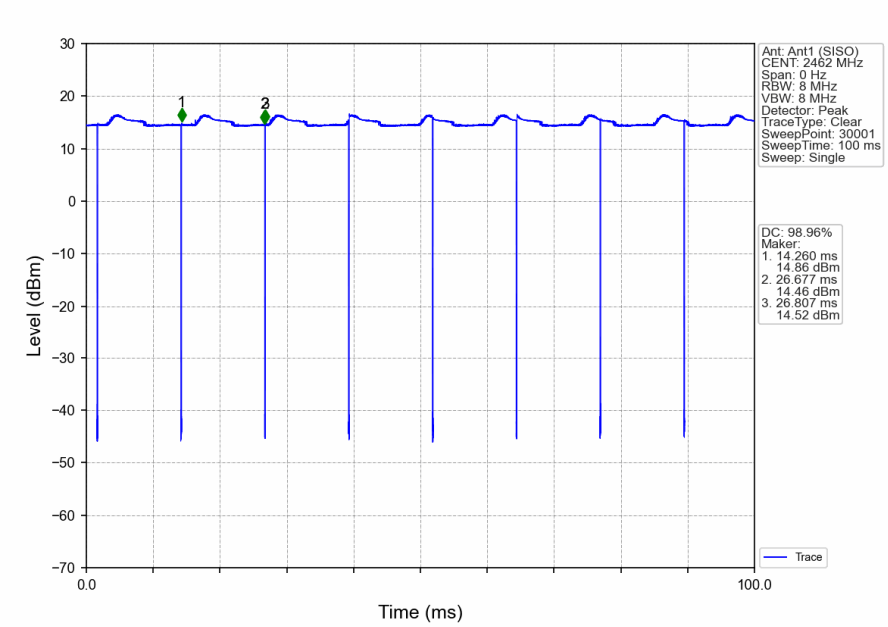
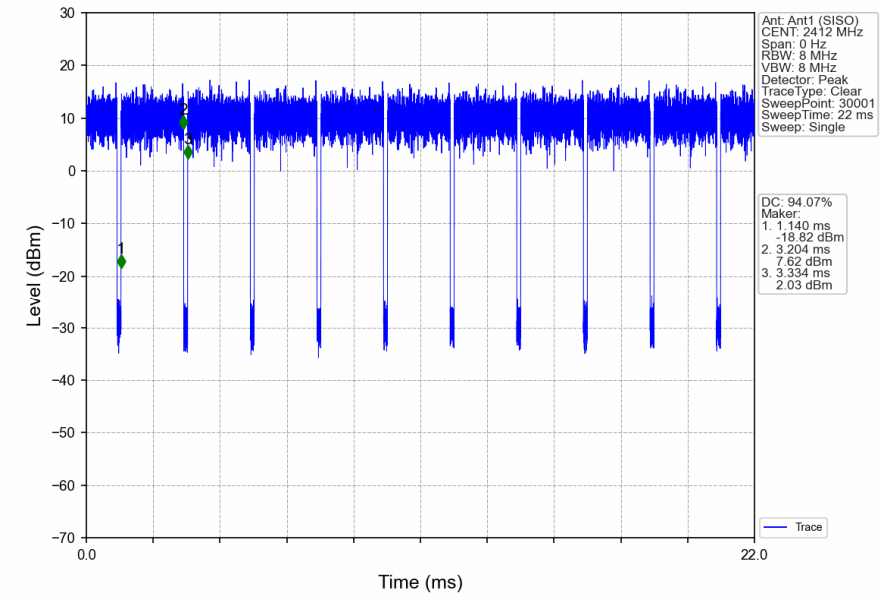
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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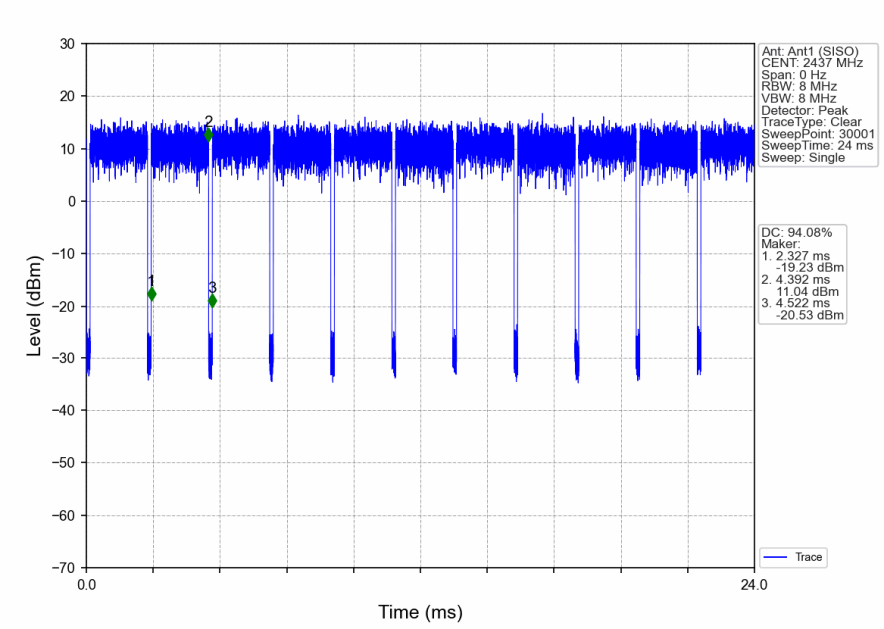
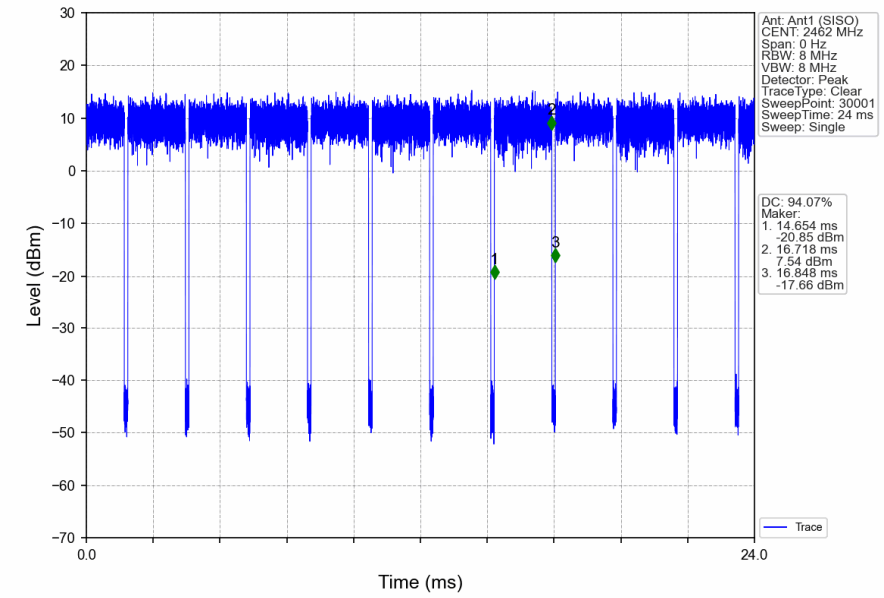
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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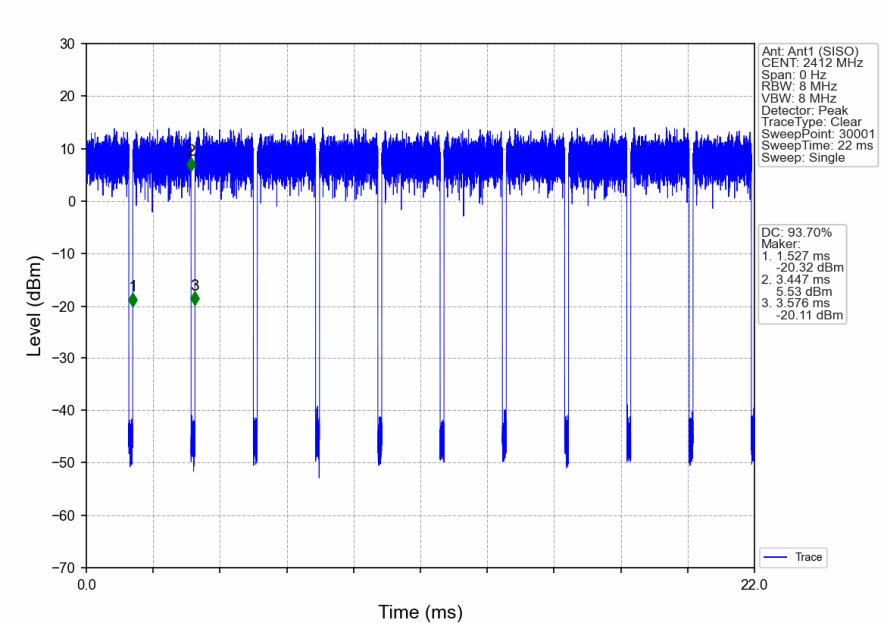
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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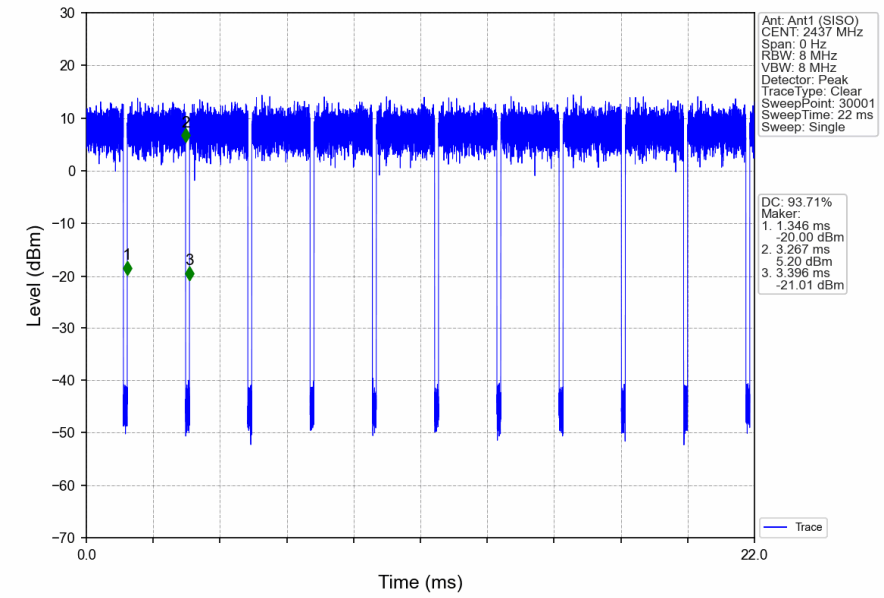

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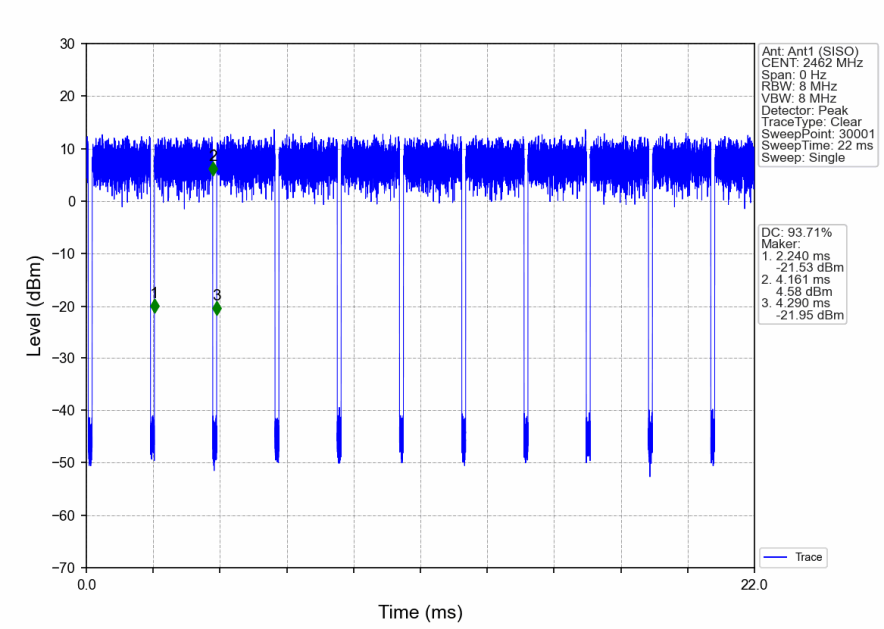
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 6dB BW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.661	>=0.5	Pass
		2440	1	0.660	>=0.5	Pass
		2480	1	0.662	>=0.5	Pass
2M	SISO	2402	1	1.143	>=0.5	Pass
		2440	1	1.143	>=0.5	Pass
		2480	1	1.135	>=0.5	Pass
802.11b	SISO	2412	1	9.597	>=0.5	Pass
		2437	1	10.059	>=0.5	Pass
		2462	1	10.059	>=0.5	Pass
802.11g	SISO	2412	1	16.344	>=0.5	Pass
		2437	1	16.309	>=0.5	Pass
		2462	1	16.302	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.096	>=0.5	Pass
		2437	1	17.064	>=0.5	Pass
		2462	1	16.575	>=0.5	Pass

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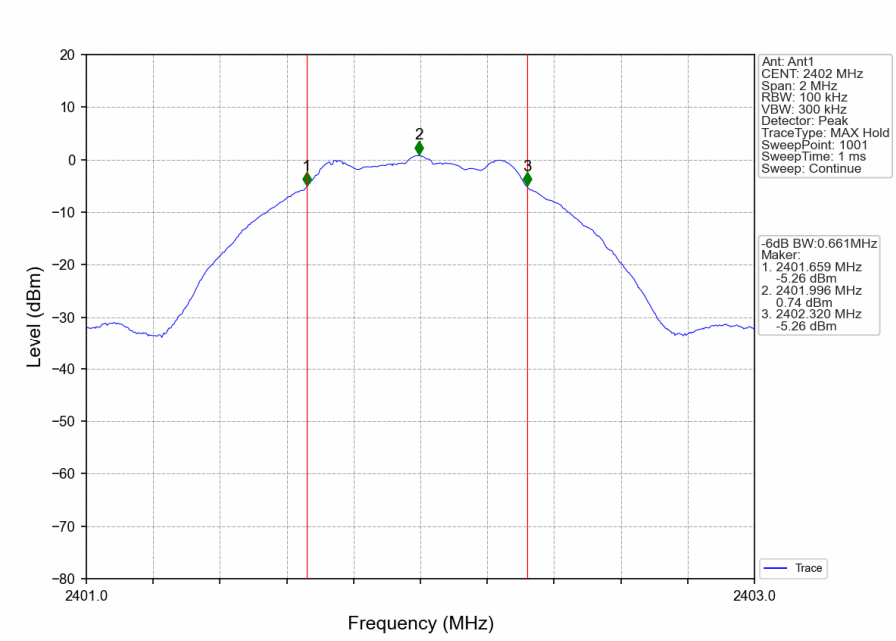
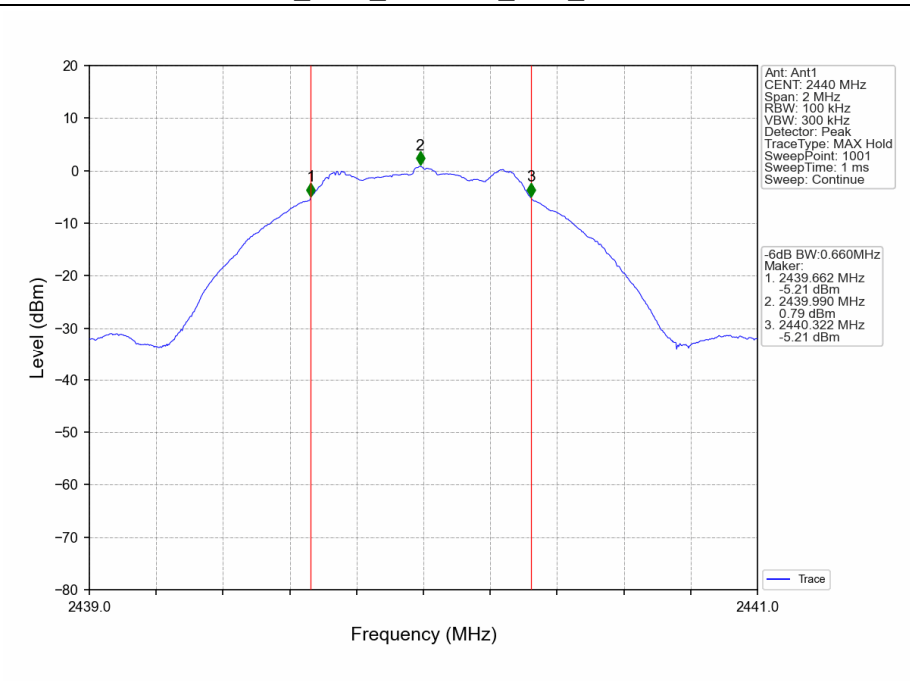
2.1.2 Test Graph

1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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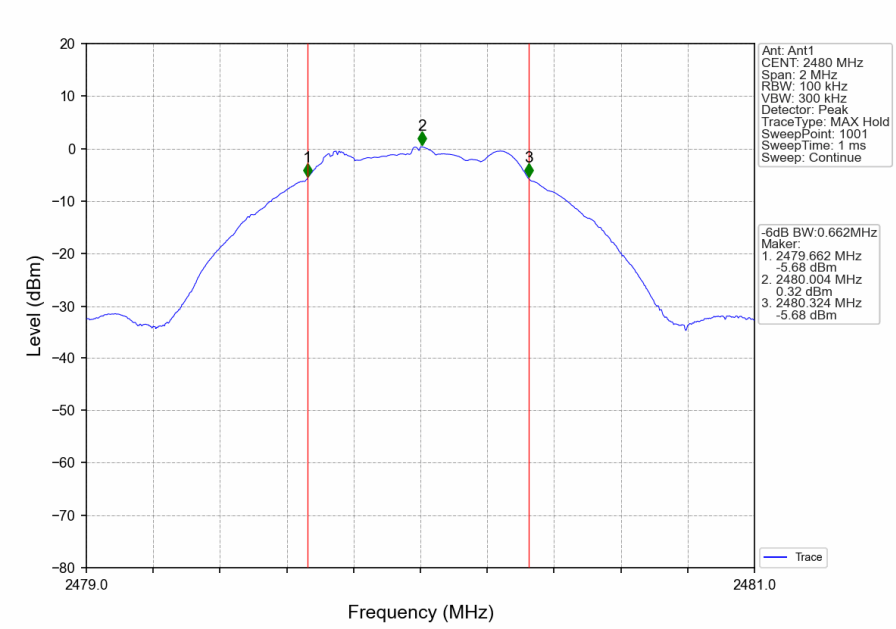
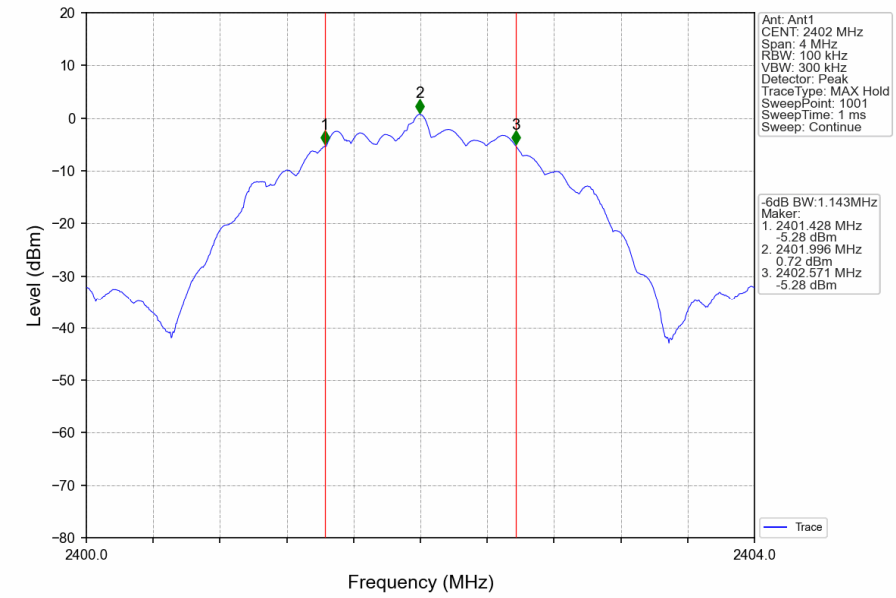
1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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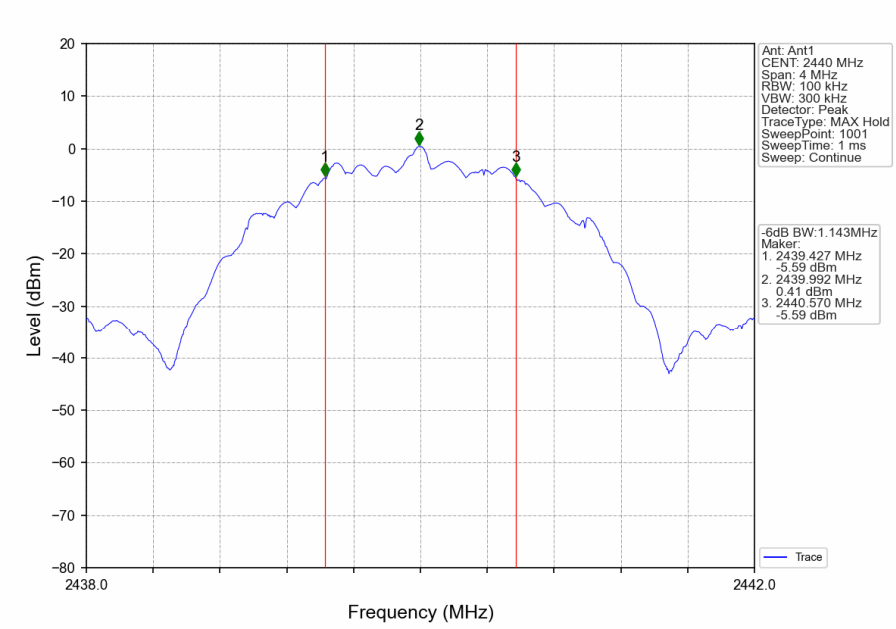
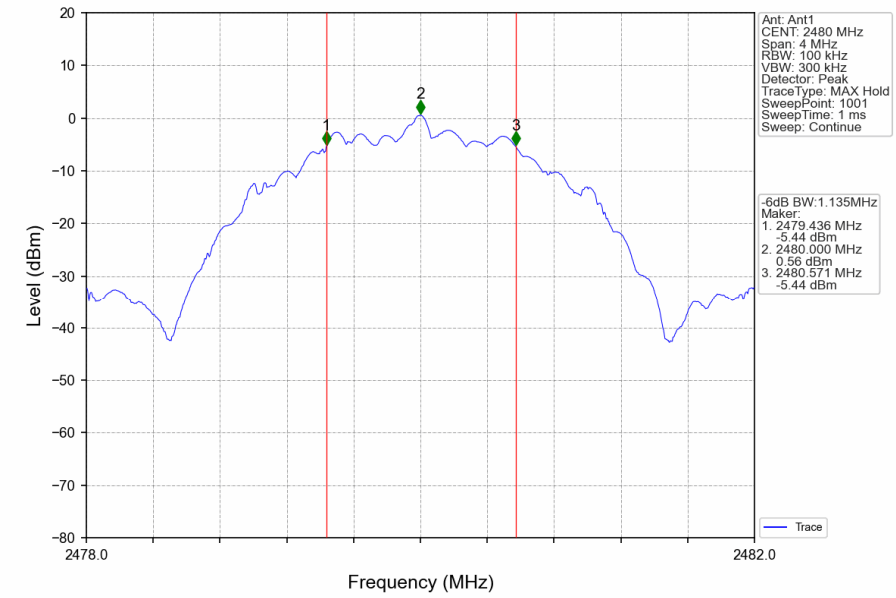
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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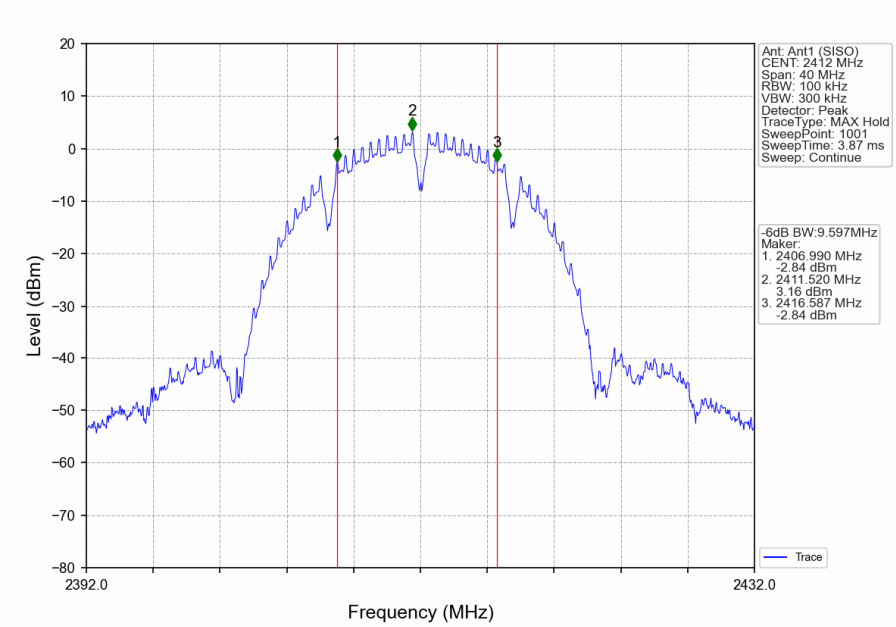
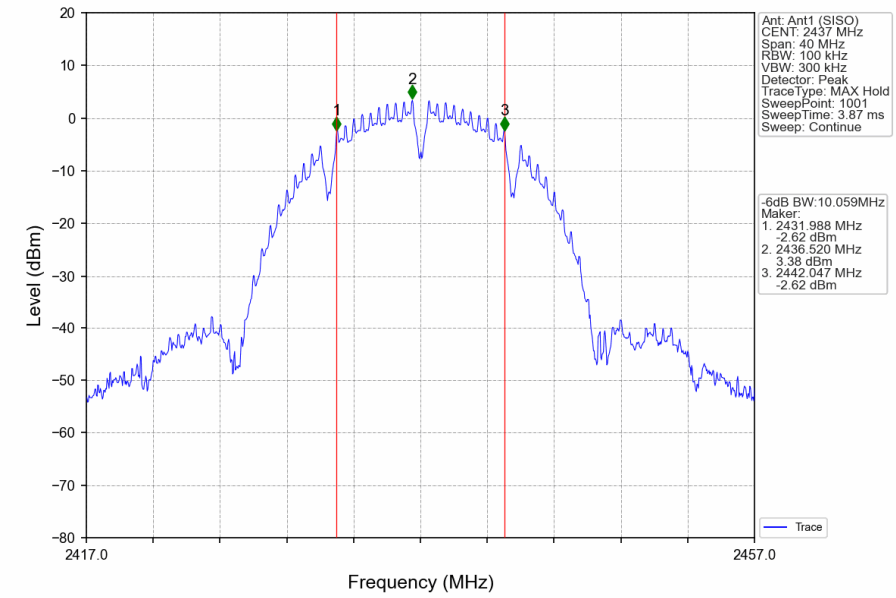
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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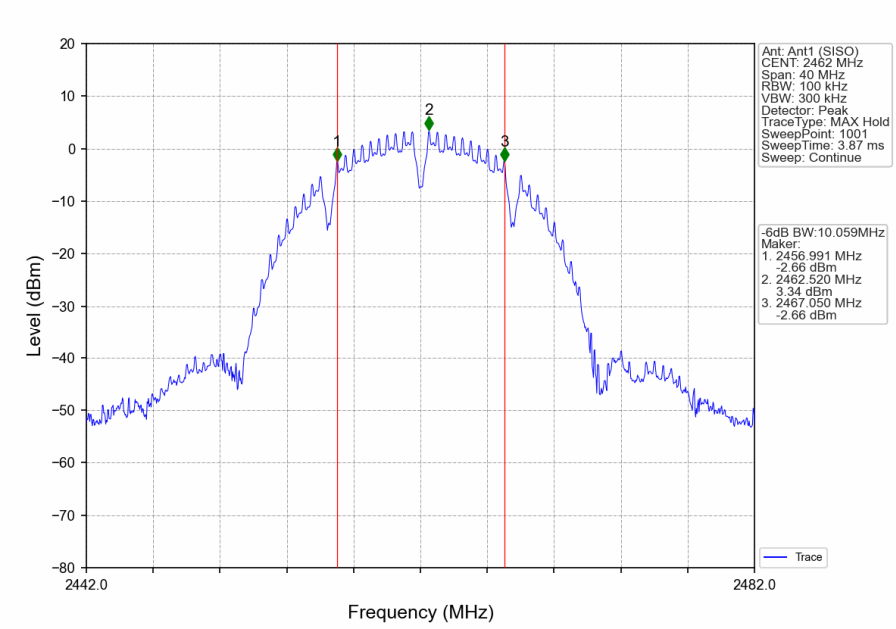
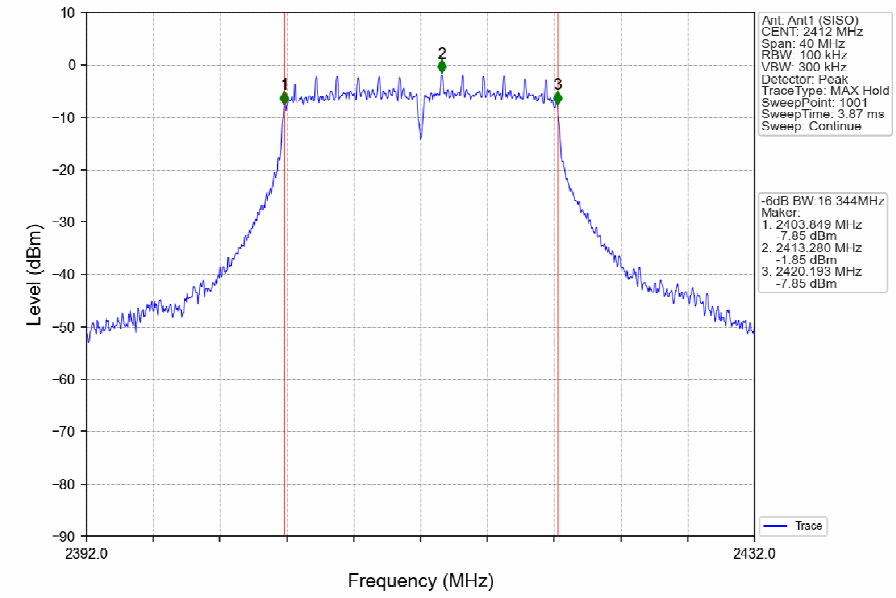
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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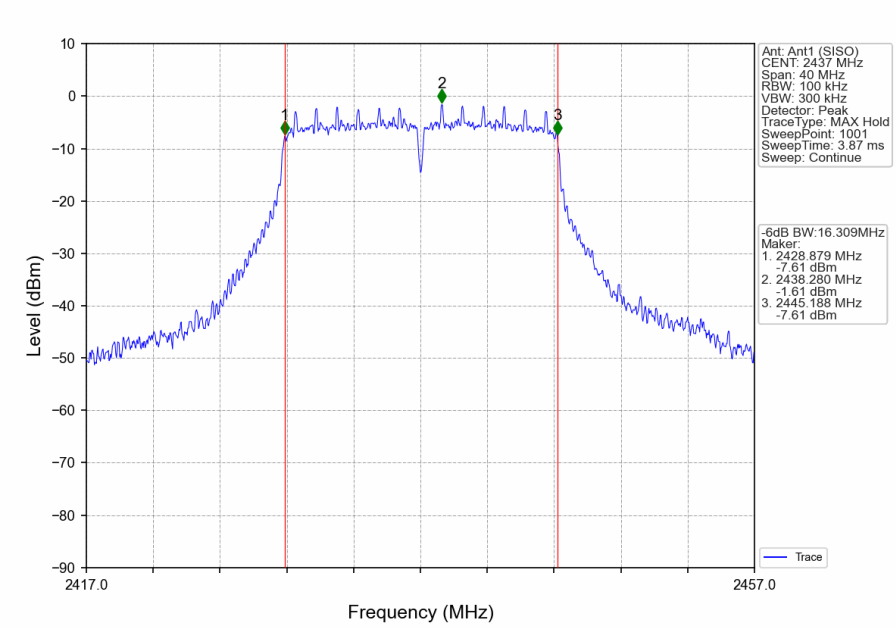
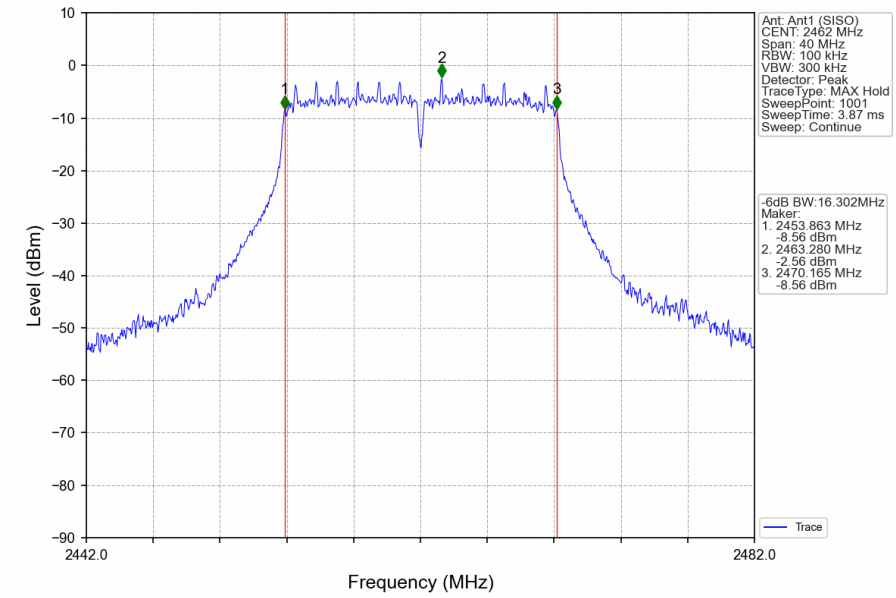
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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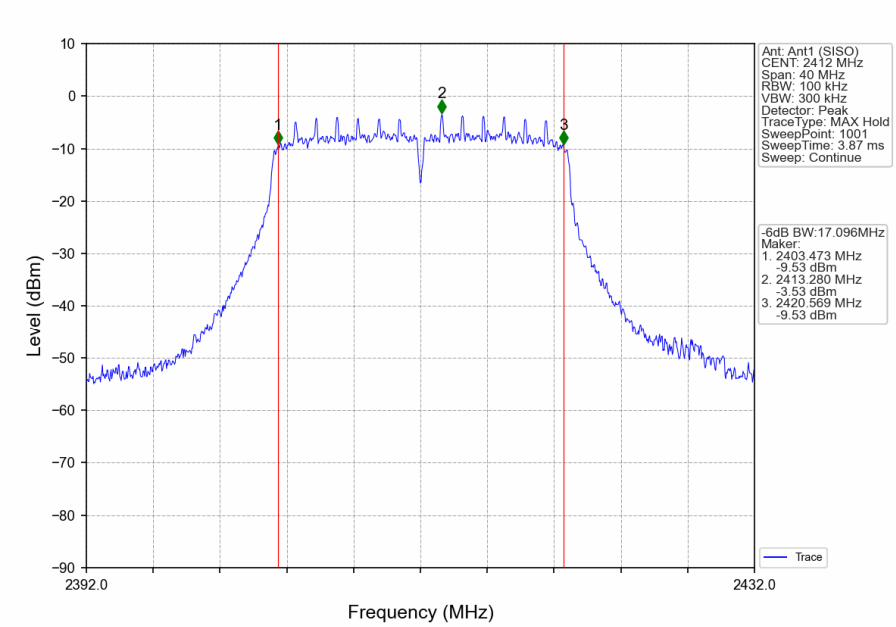
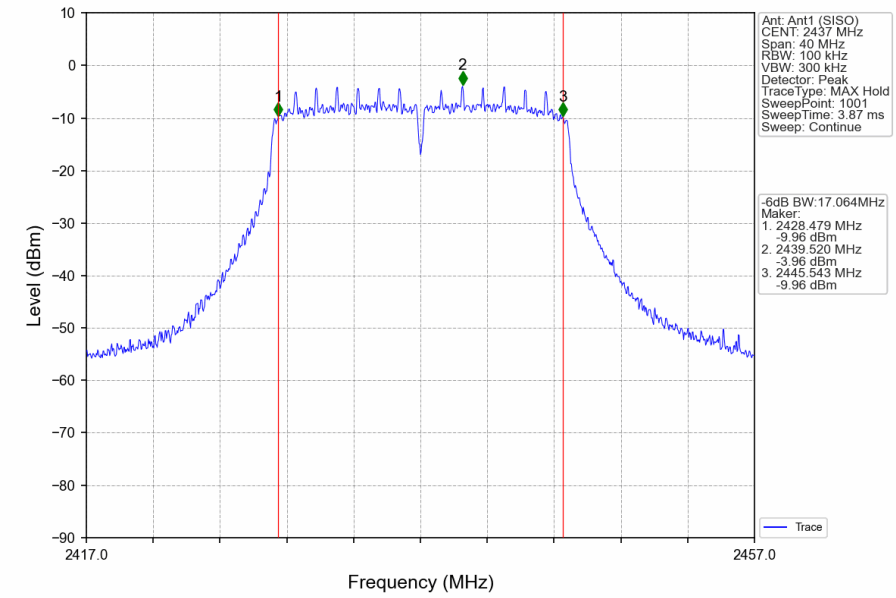
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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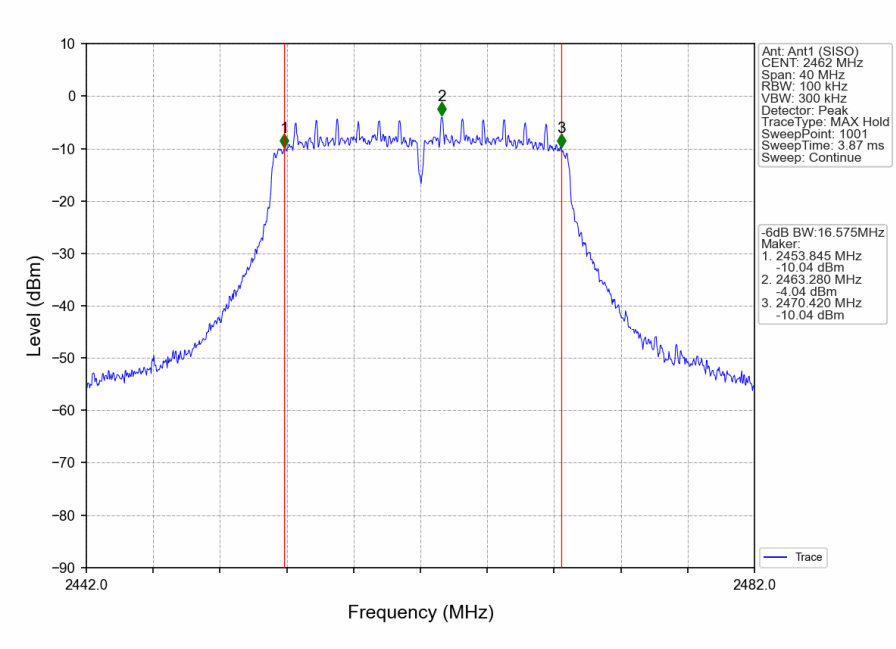
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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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	
1M	SISO	2402	0.84	<=30	Pass
		2440	0.83	<=30	Pass
		2480	0.48	<=30	Pass
2M	SISO	2402	0.90	<=30	Pass
		2440	0.65	<=30	Pass
		2480	0.73	<=30	Pass
802.11b	SISO	2412	14.42	<=30	Pass
		2437	14.66	<=30	Pass
		2462	14.50	<=30	Pass
802.11g	SISO	2412	17.00	<=30	Pass
		2437	16.98	<=30	Pass
		2462	16.02	<=30	Pass
802.11n (HT20)	SISO	2412	15.01	<=30	Pass
		2437	14.80	<=30	Pass
		2462	14.29	<=30	Pass
Note1: Antenna Gain: Ant1: 2.50dBi;					

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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	
1M	SISO	2402	-14.71	<=8	Pass
		2440	-15.11	<=8	Pass
		2480	-15.24	<=8	Pass
2M	SISO	2402	-15.59	<=8	Pass
		2440	-16.25	<=8	Pass
		2480	-16.38	<=8	Pass
802.11b	SISO	2412	-11.59	<=8	Pass
		2437	-10.85	<=8	Pass
		2462	-9.84	<=8	Pass
802.11g	SISO	2412	-16.71	<=8	Pass
		2437	-15.66	<=8	Pass
		2462	-17.14	<=8	Pass
802.11n (HT20)	SISO	2412	-19.22	<=8	Pass
		2437	-17.32	<=8	Pass
		2462	-19.09	<=8	Pass
Note1: Antenna Gain: Ant1: 2.50dBi;					

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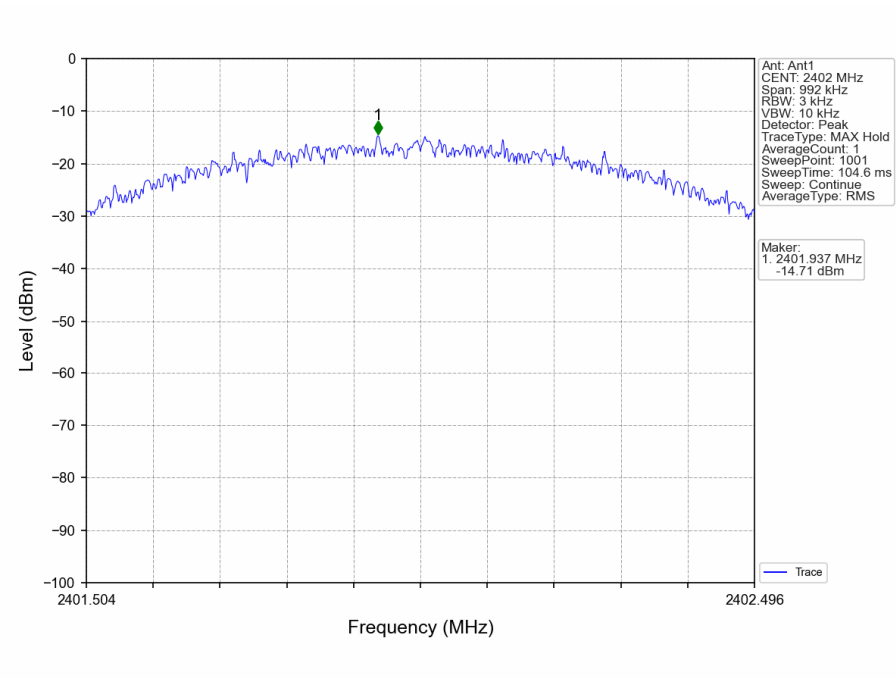
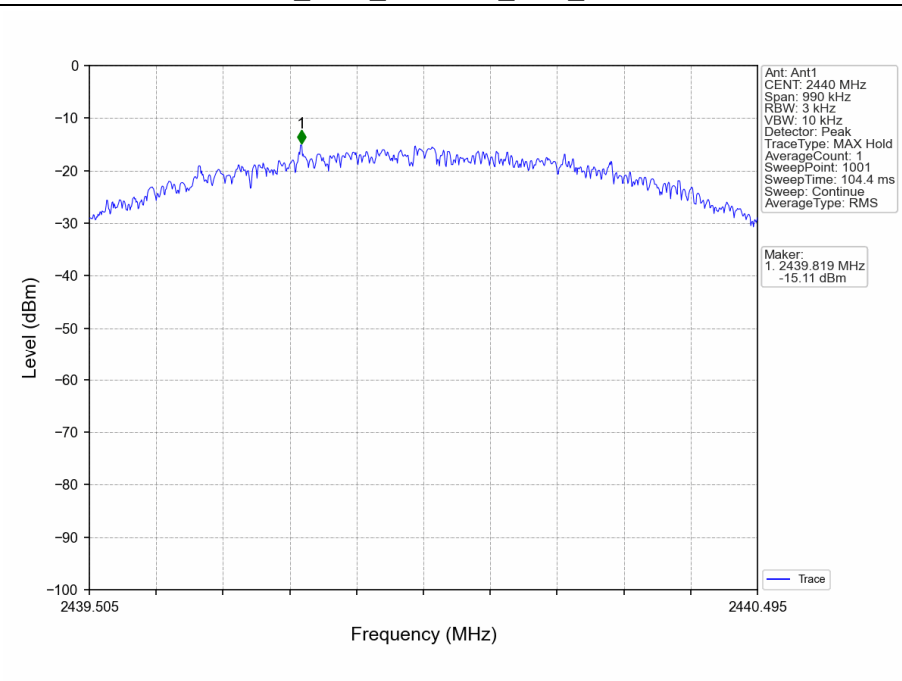
4.1.2 Test Graph

1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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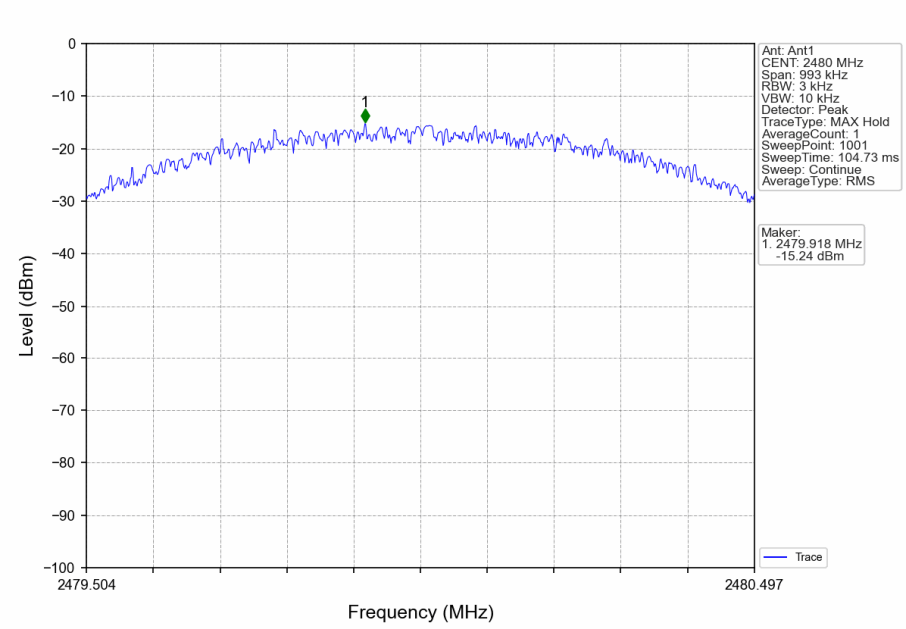
1M_HCH_2480MHz_Ant1_NTNV



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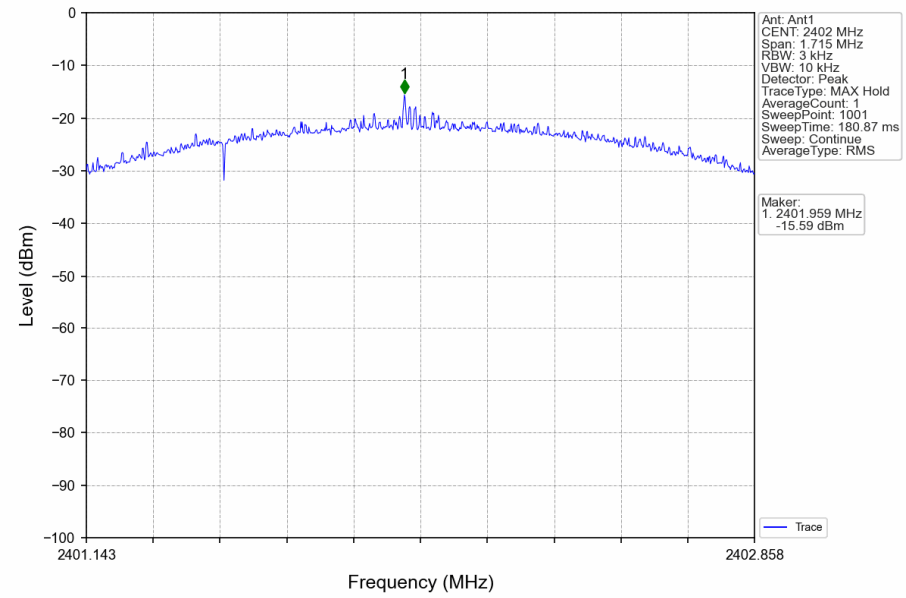

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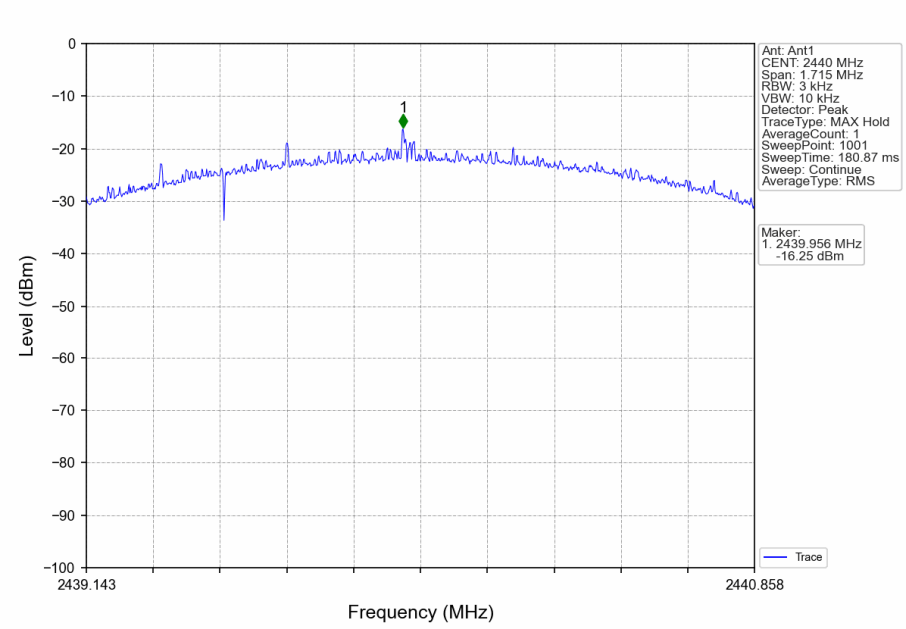
2M_MCH_2440MHz_Ant1_NTNV



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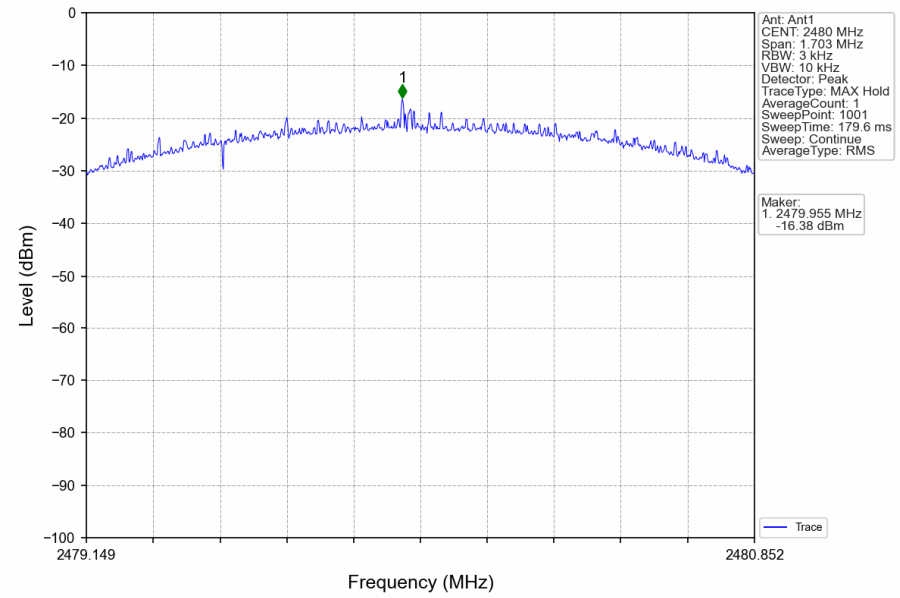

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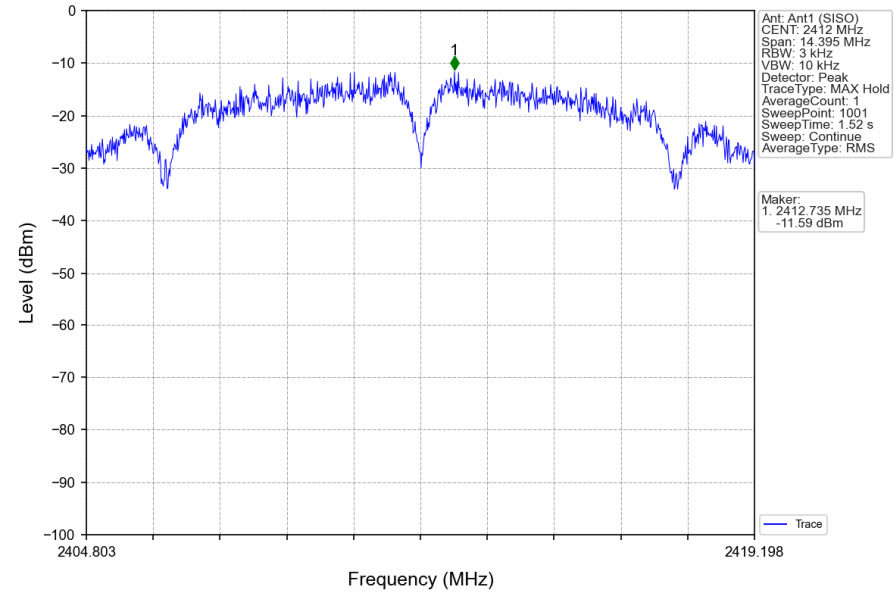
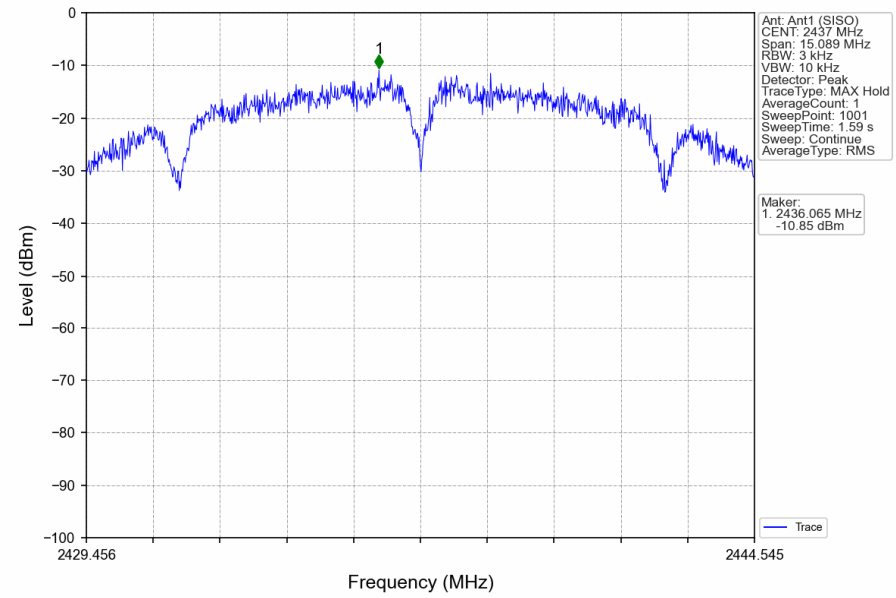
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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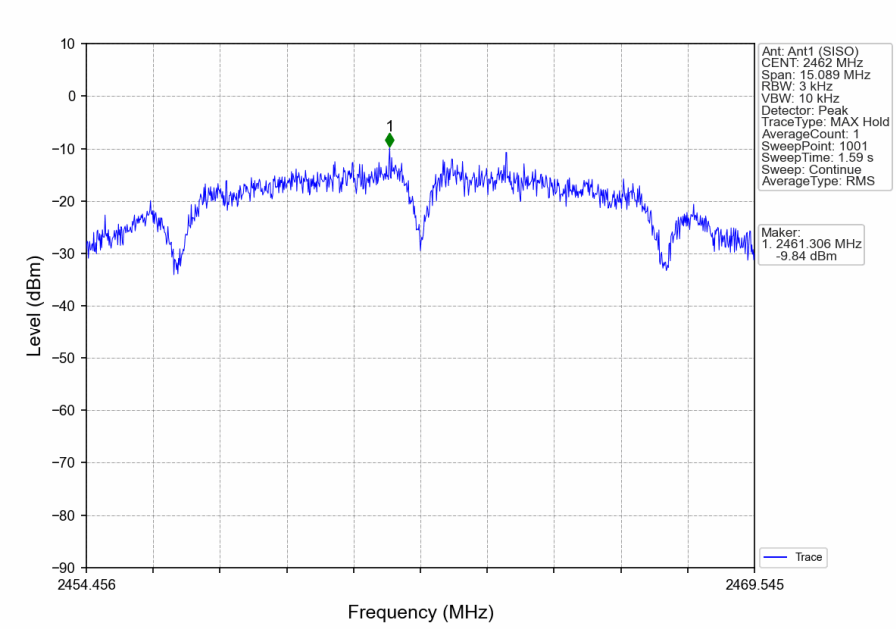
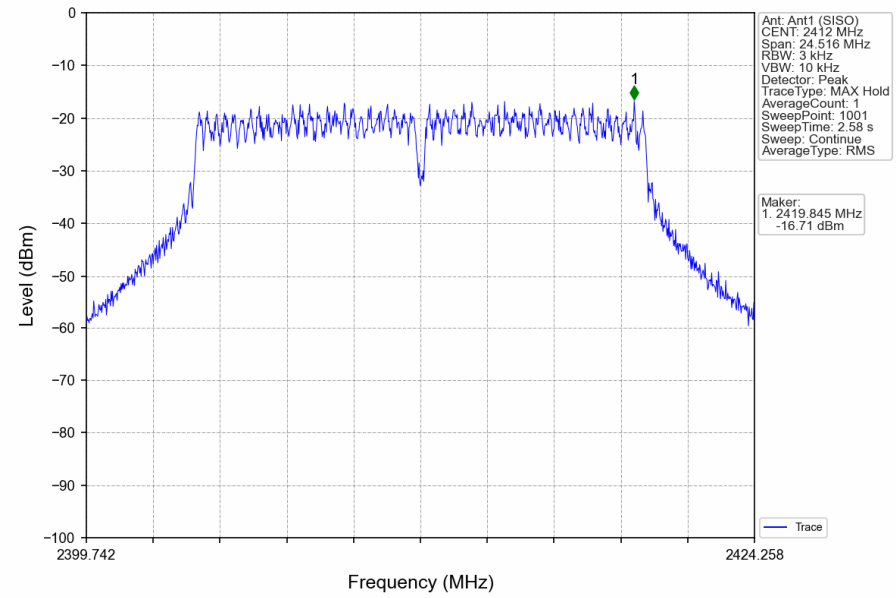
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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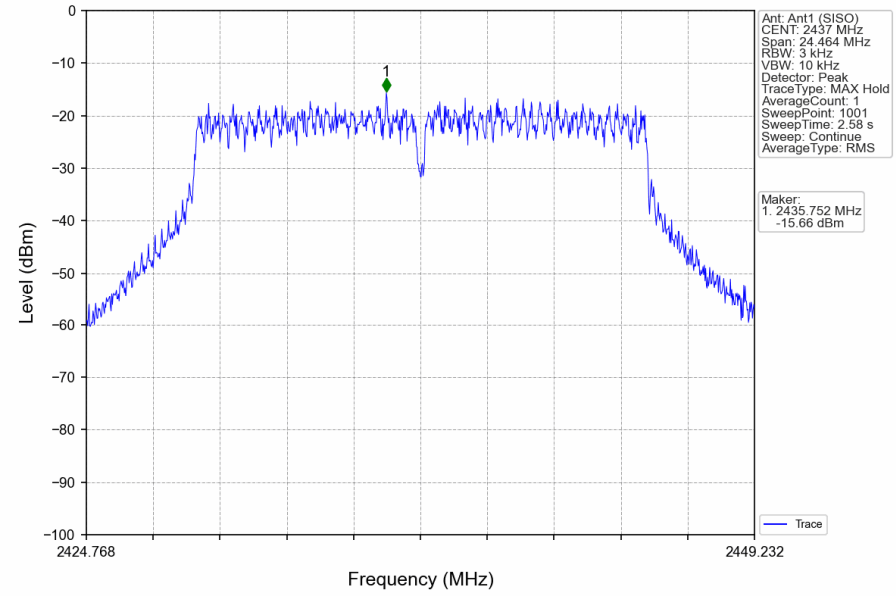
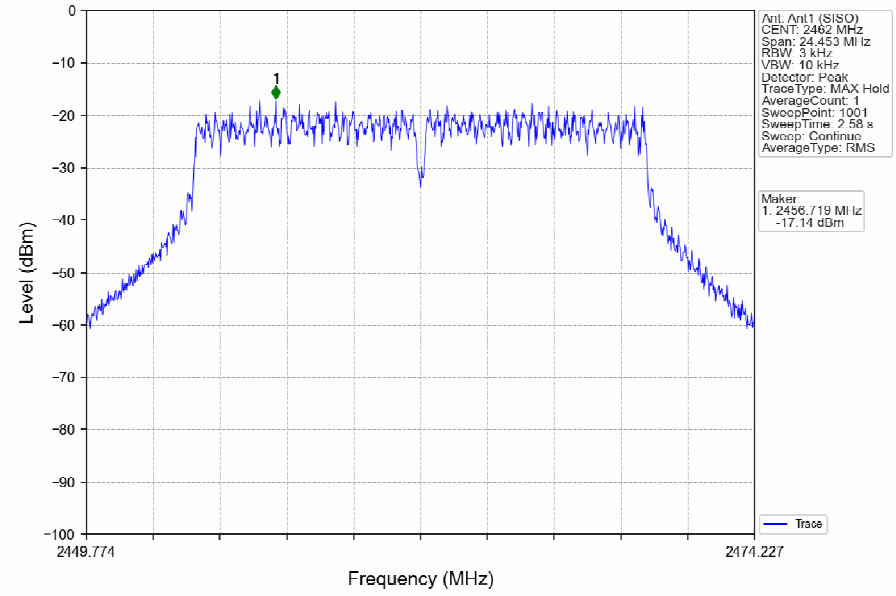
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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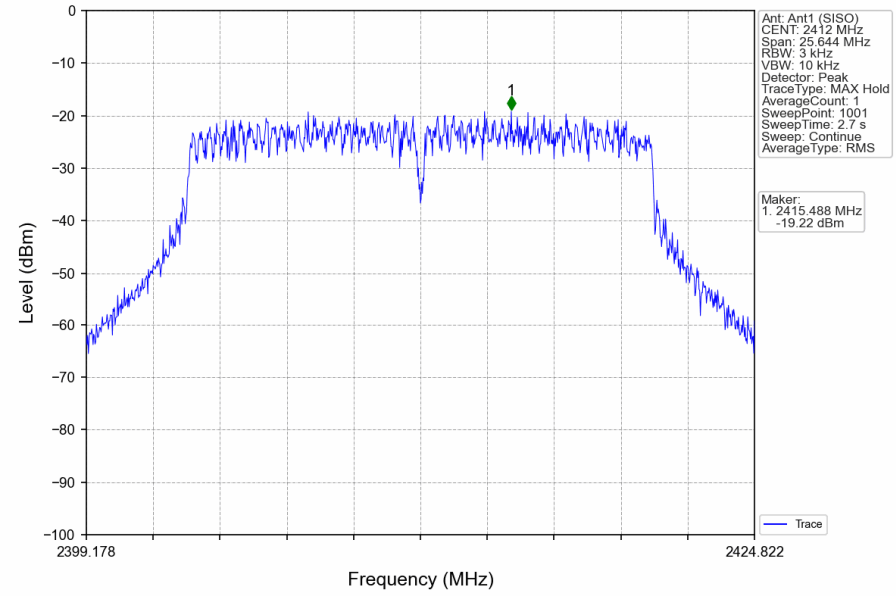
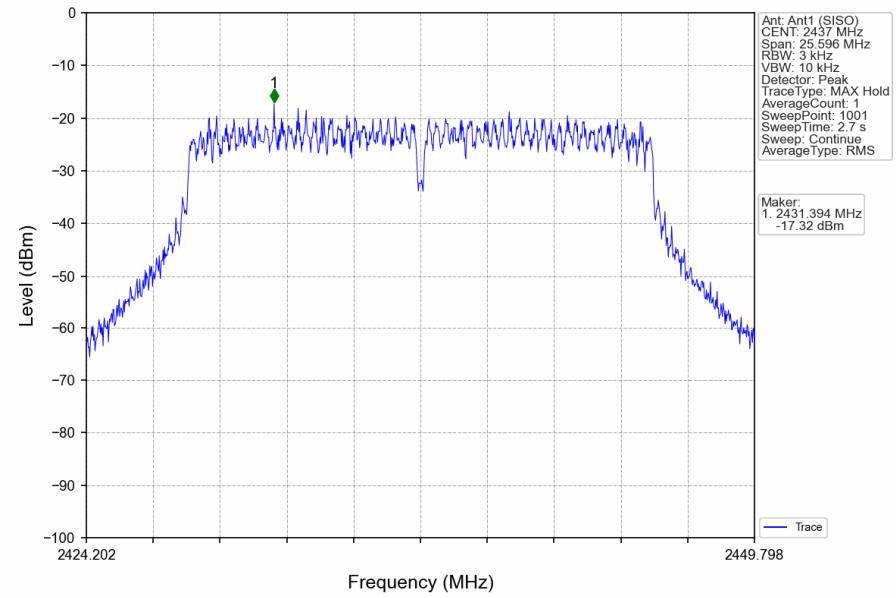
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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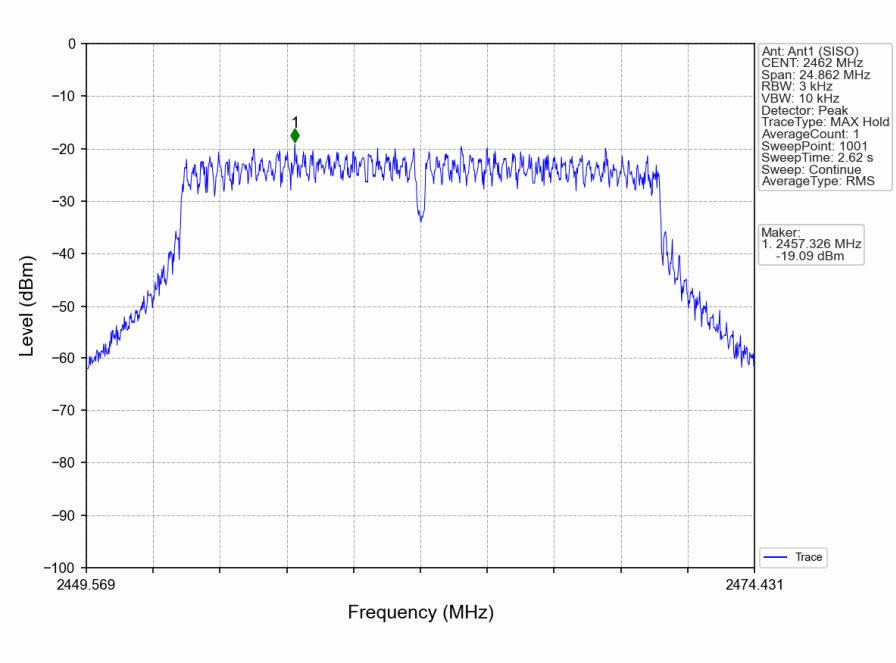
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.82
		2440	1	0.75
		2480	1	0.42
2M	SISO	2402	1	0.71
		2440	1	0.48
		2480	1	0.53
802.11b	SISO	2412	1	3.10
		2437	1	3.11
		2462	1	2.93
802.11g	SISO	2412	1	-1.69
		2437	1	-1.69
		2462	1	-2.98
802.11n (HT20)	SISO	2412	1	-3.51
		2437	1	-3.92
		2462	1	-4.34
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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检验检测专用章
Inspection & Testing Services
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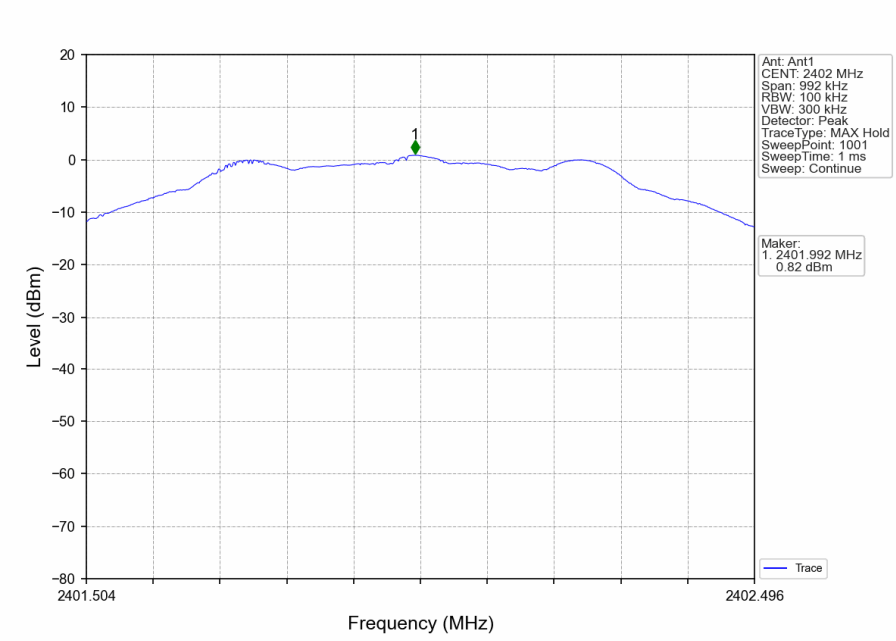
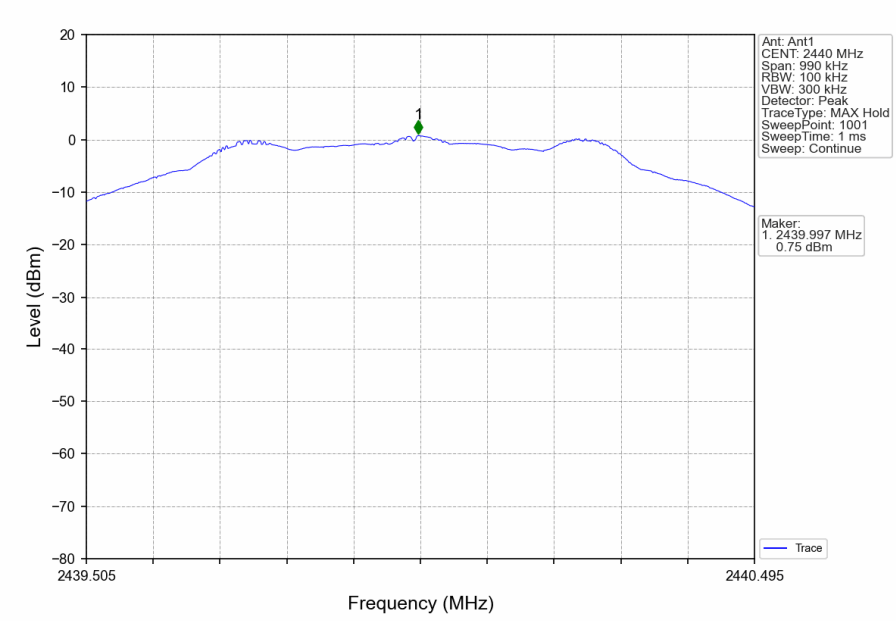
5.1.2 Test Graph

1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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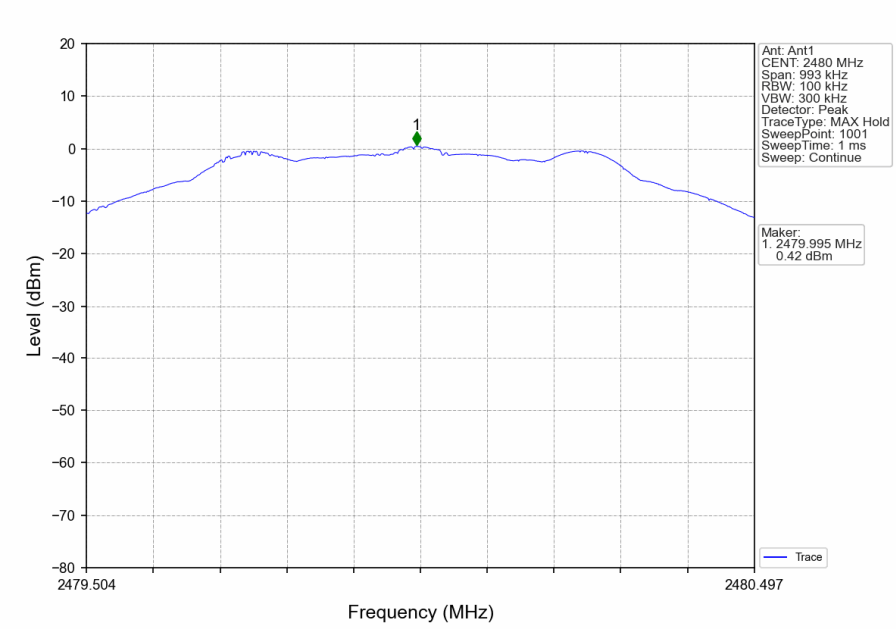
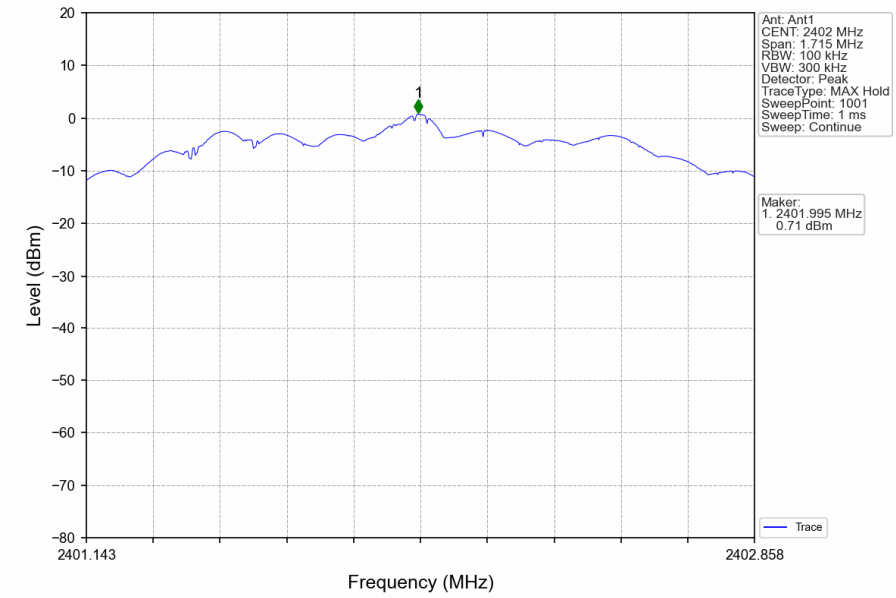
1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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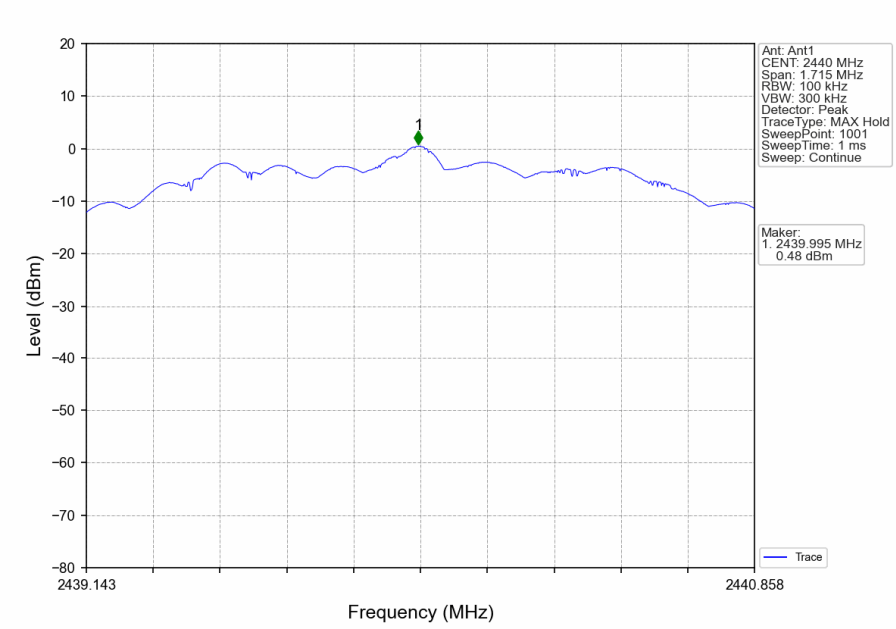
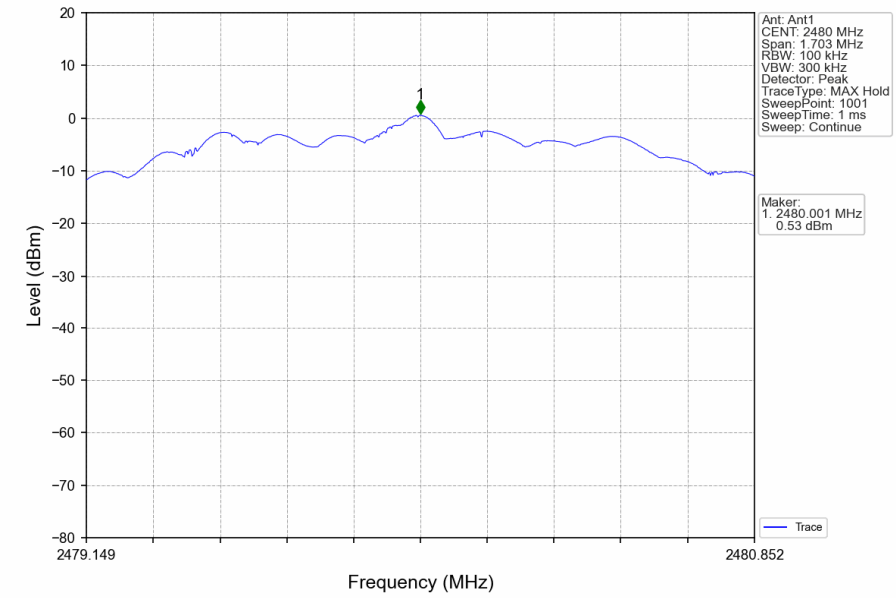
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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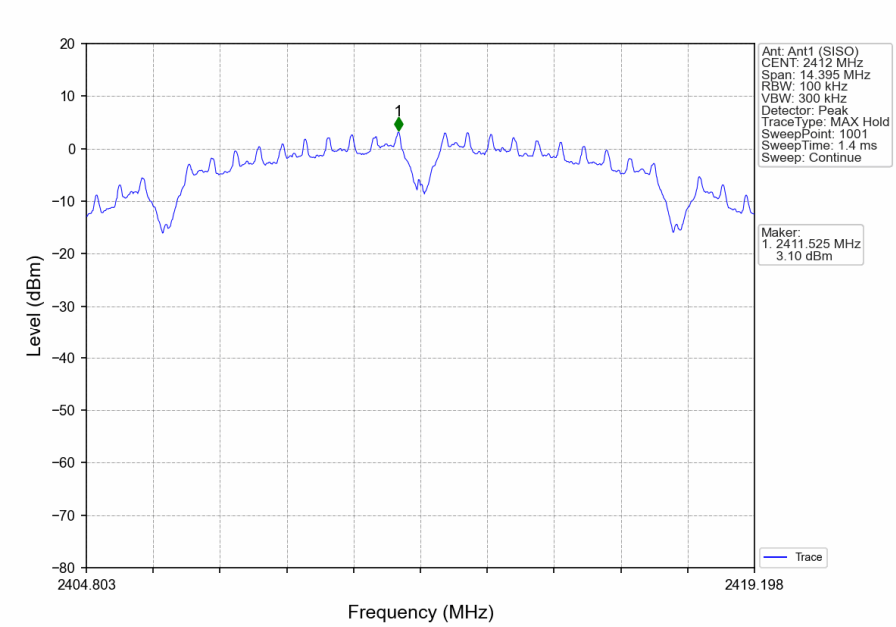
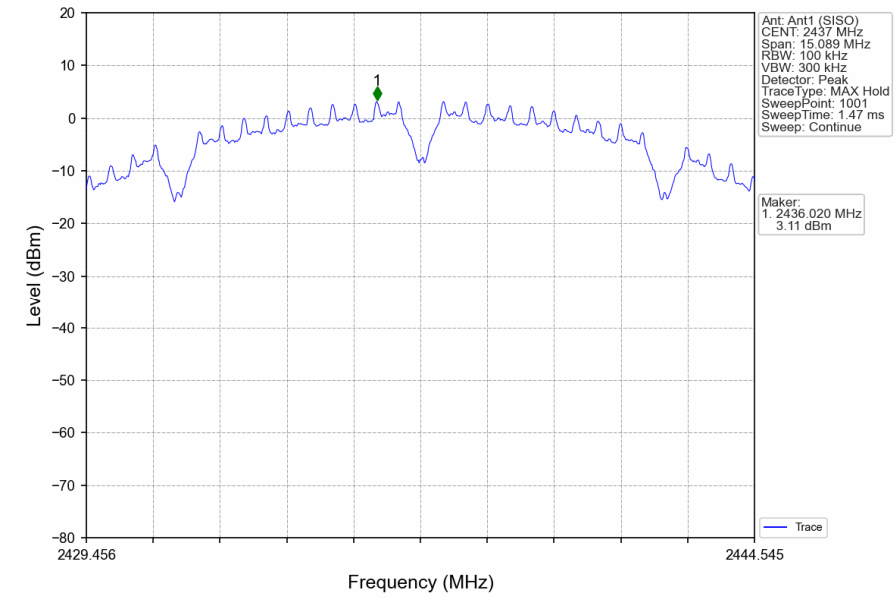
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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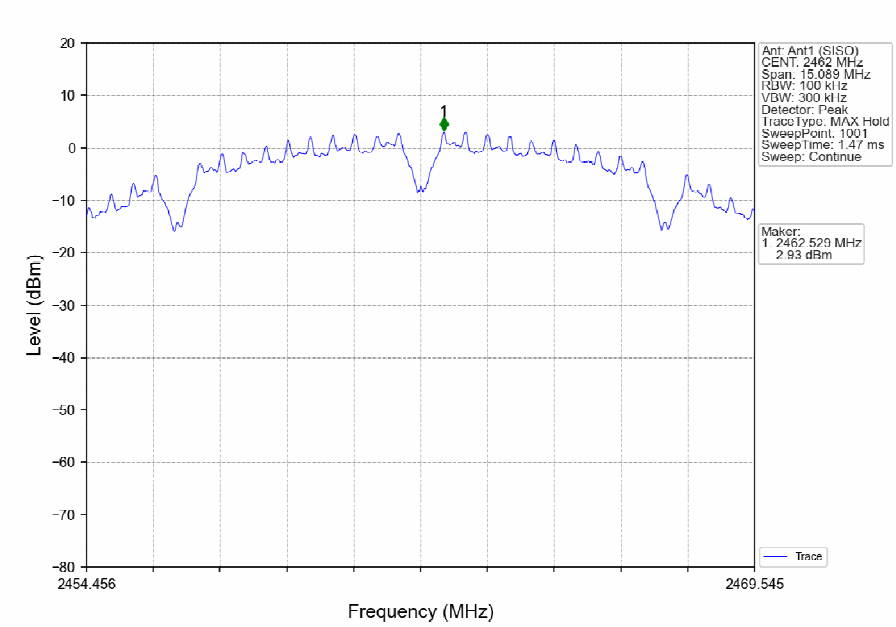
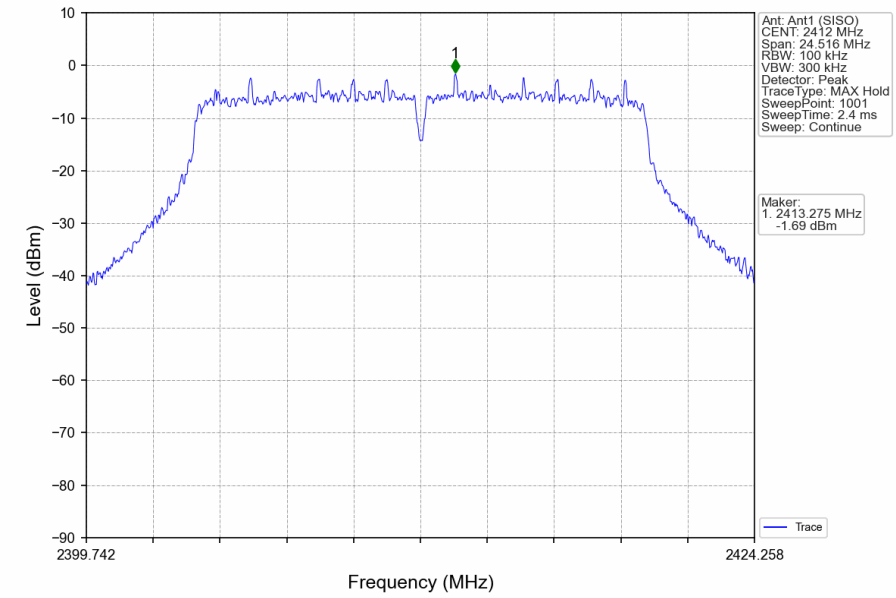
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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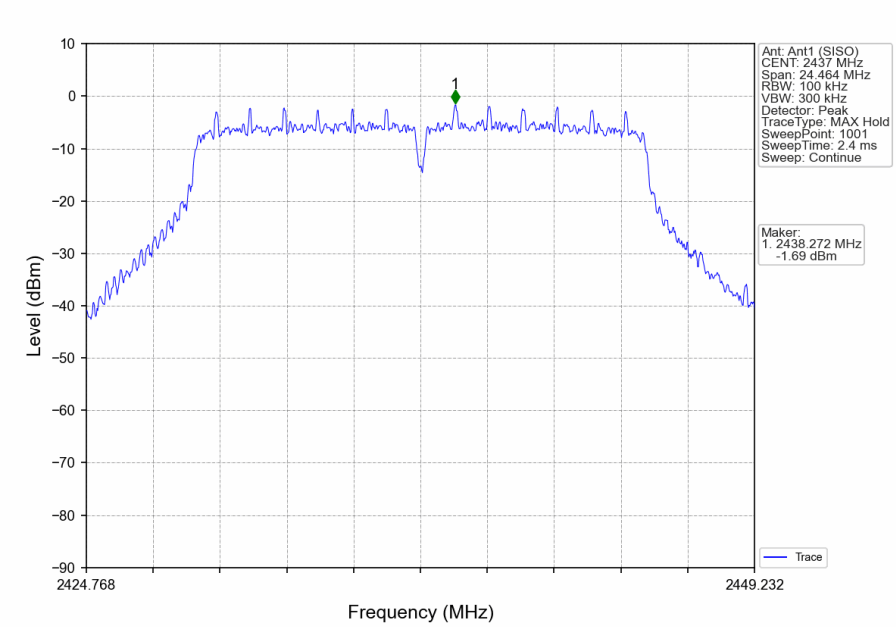
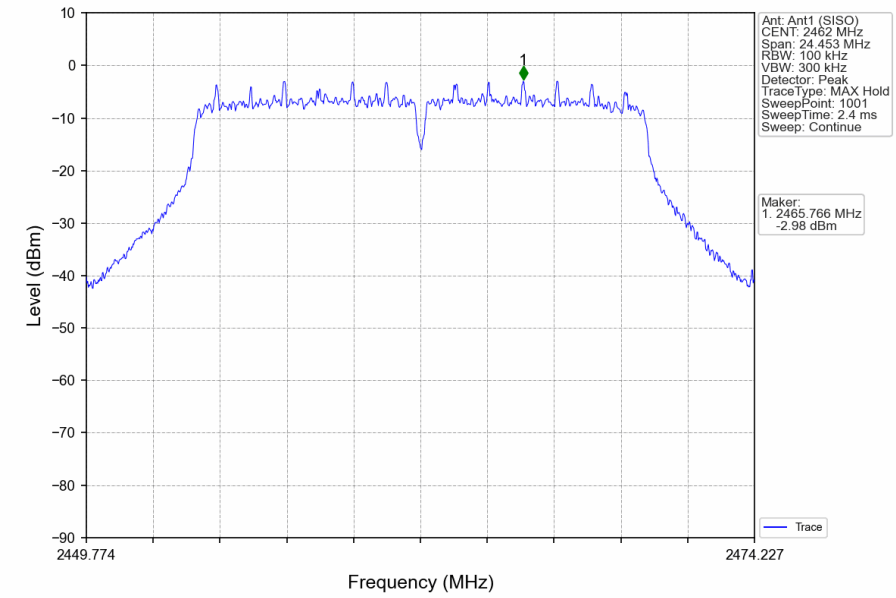
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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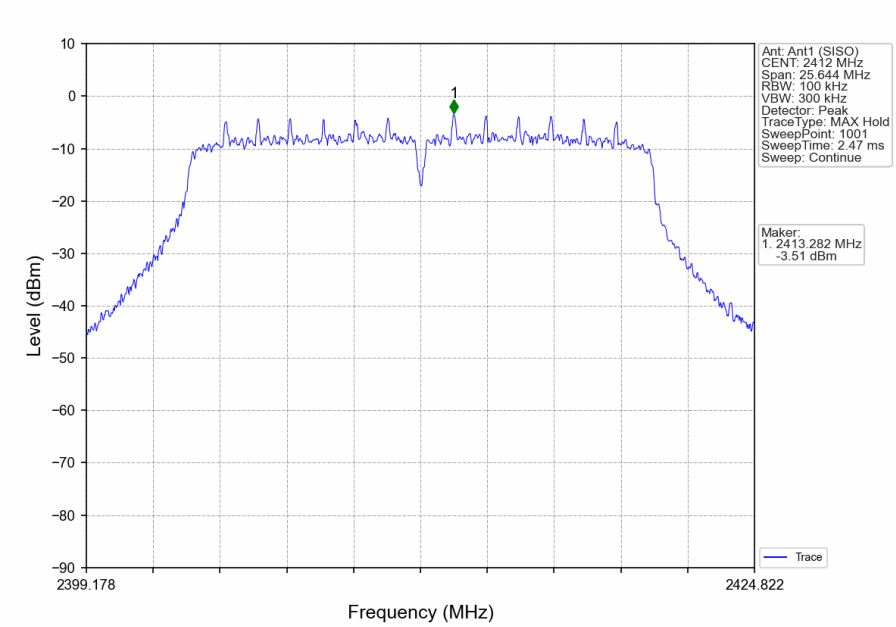
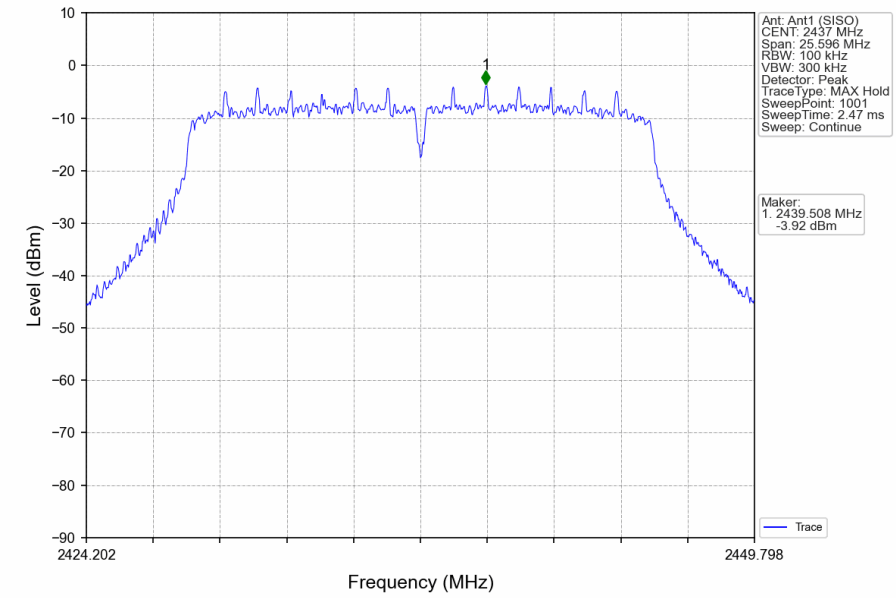
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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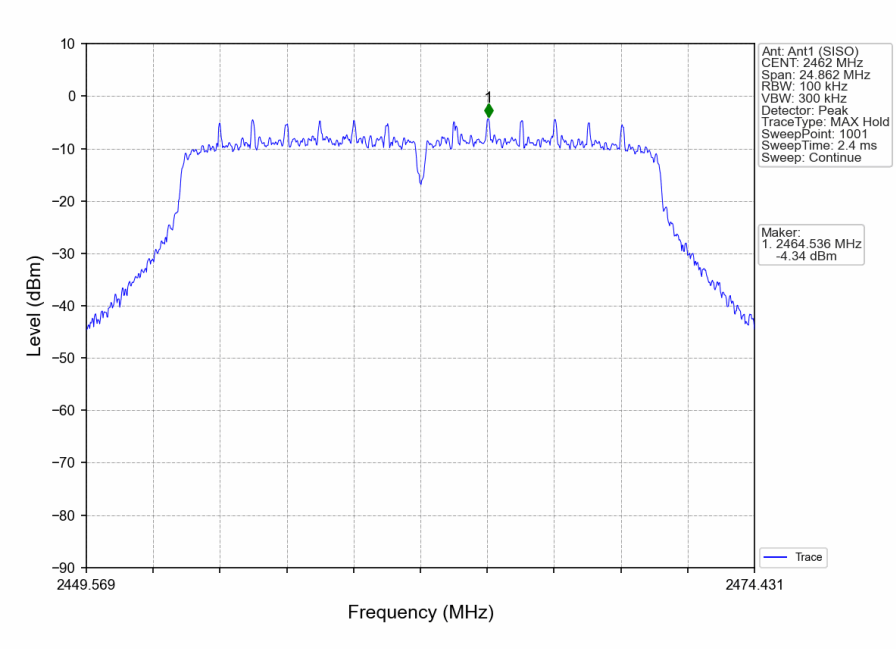
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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5.2 CSE and Band Edges

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.82	-19.18	Pass
		2440	1	0.82	-19.18	Pass
		2480	1	0.82	-19.18	Pass
2M	SISO	2402	1	0.71	-19.29	Pass
		2440	1	0.71	-19.29	Pass
		2480	1	0.71	-19.29	Pass
802.11b	SISO	2412	1	3.11	-16.89	Pass
		2437	1	3.11	-16.89	Pass
		2462	1	3.11	-16.89	Pass
802.11g	SISO	2412	1	-1.69	-21.69	Pass
		2437	1	-1.69	-21.69	Pass
		2462	1	-1.69	-21.69	Pass
802.11n (HT20)	SISO	2412	1	-3.51	-23.51	Pass
		2437	1	-3.51	-23.51	Pass
		2462	1	-3.51	-23.51	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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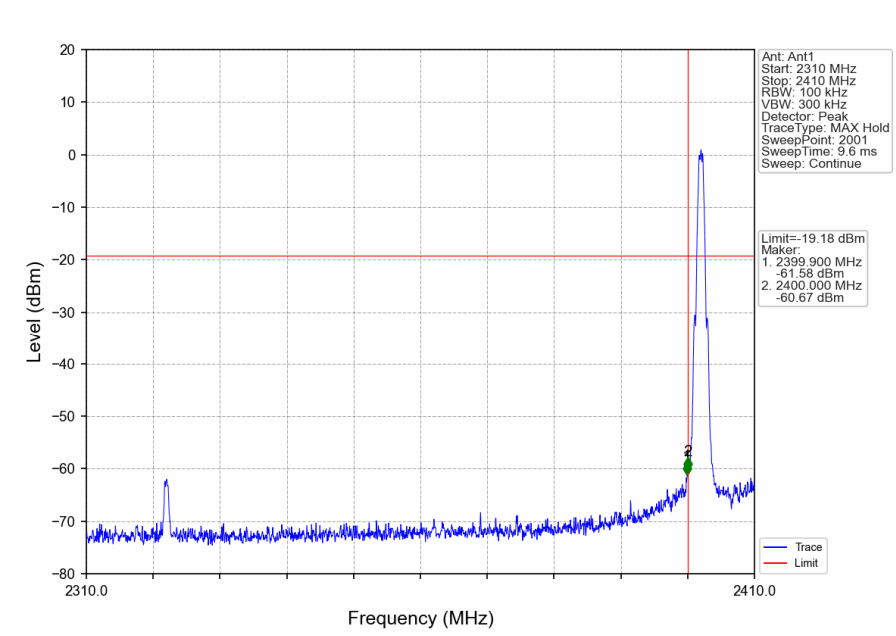
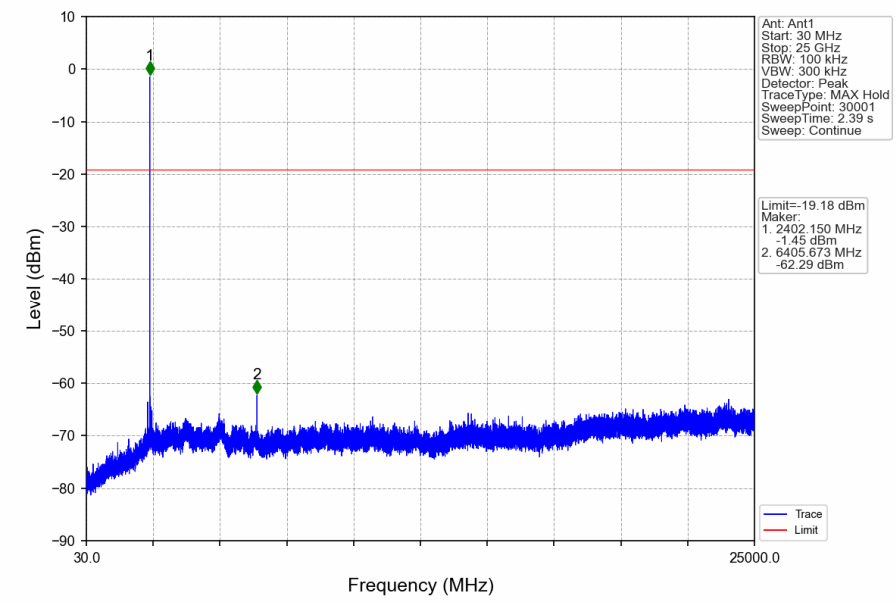
5.2.2 Test Graph

1M_LCH_2402MHz_Ant1_NTNV



1M_LCH_2402MHz_Ant1_NTNV



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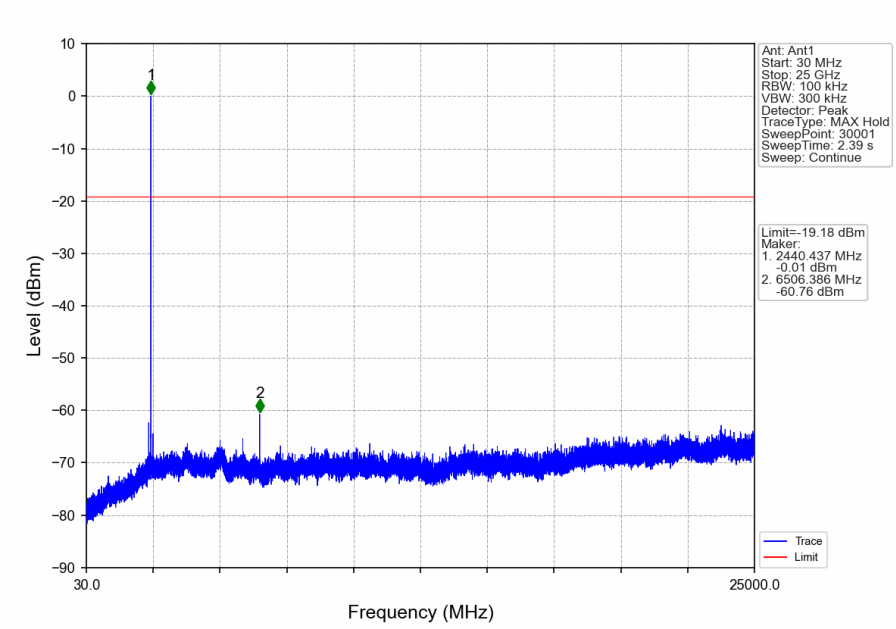
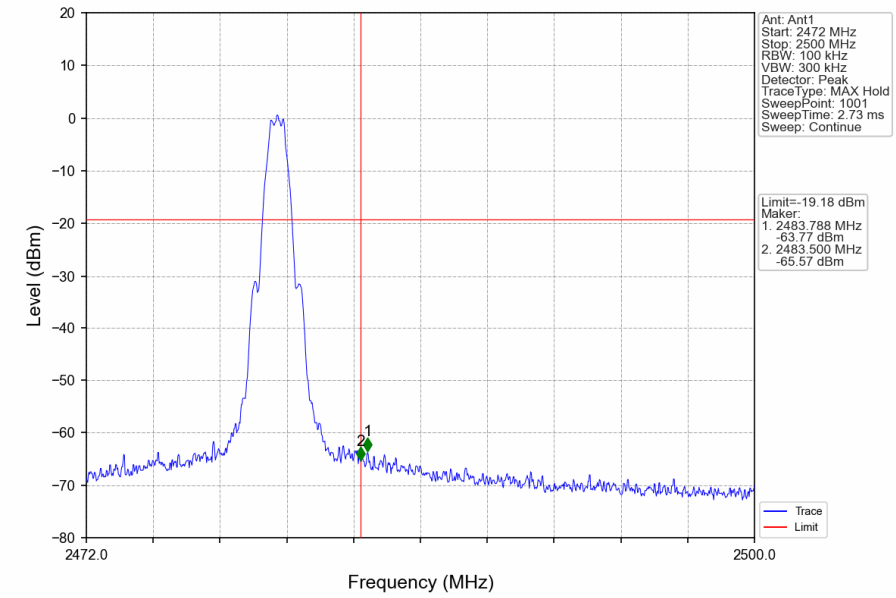
1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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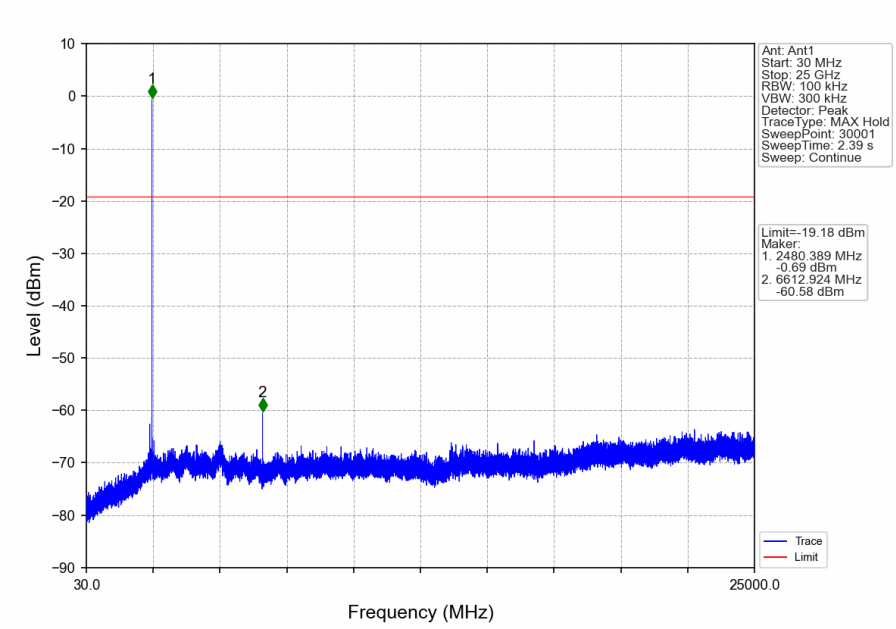
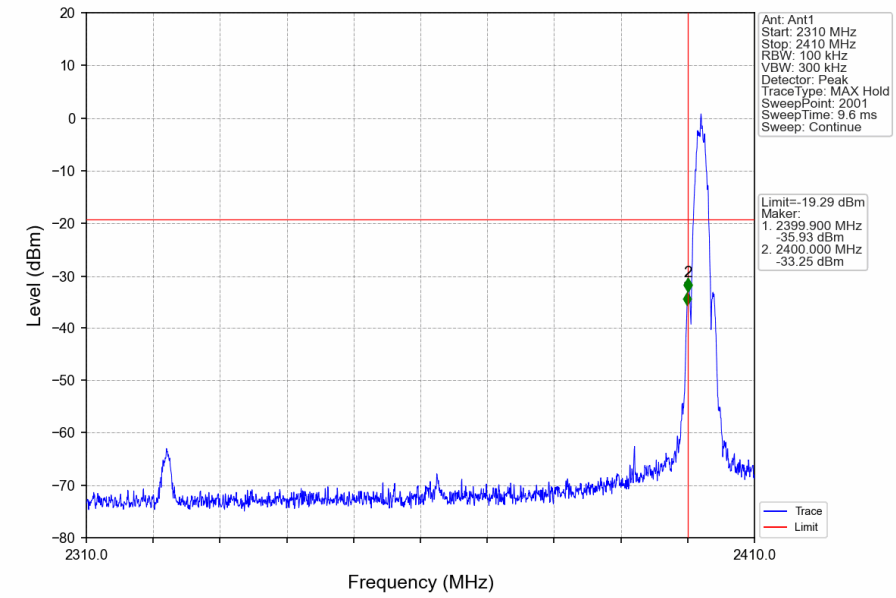
1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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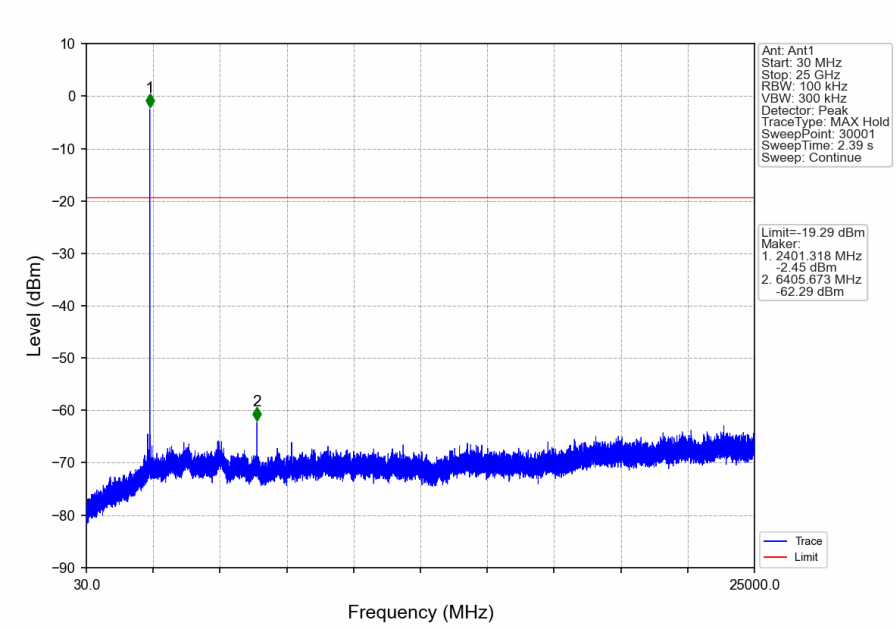
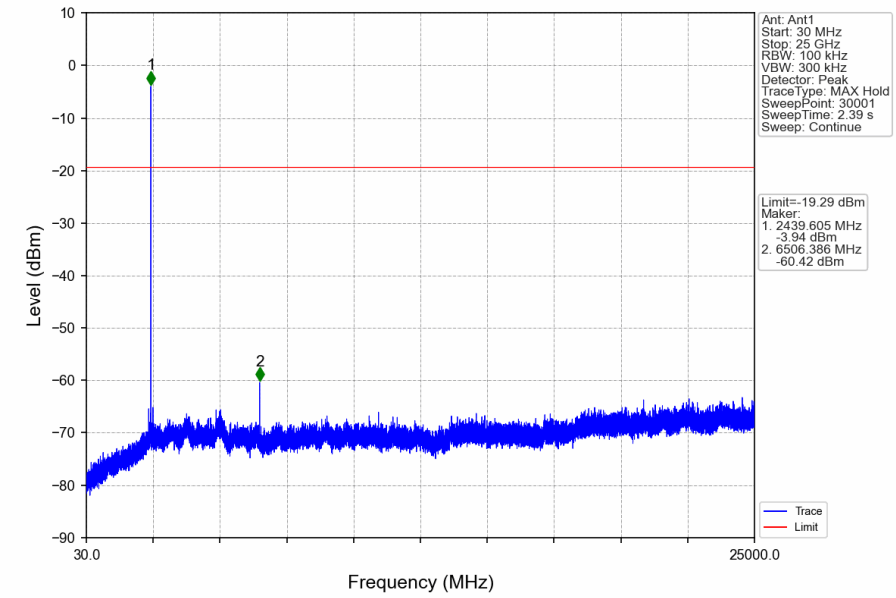
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



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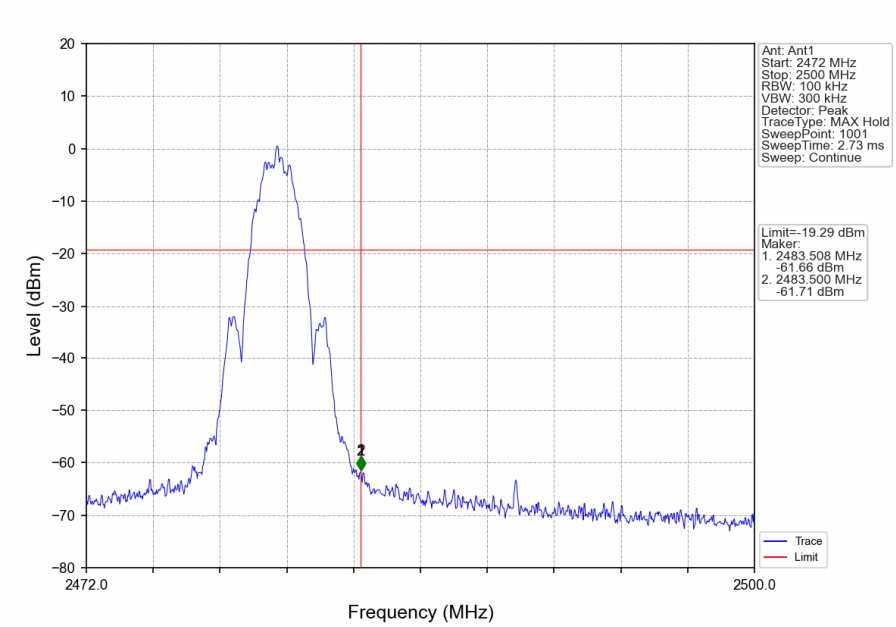
2M_HCH_2480MHz_Ant1_NTNV



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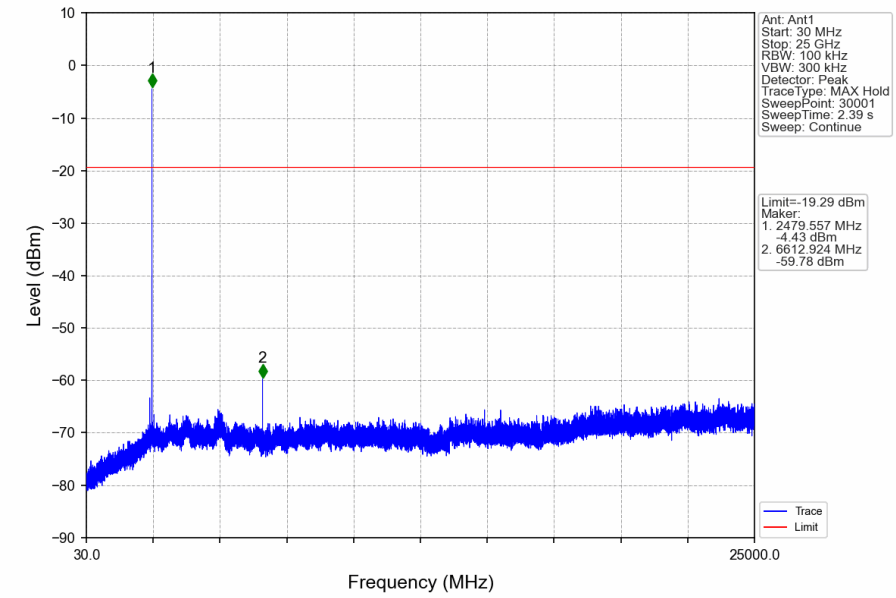

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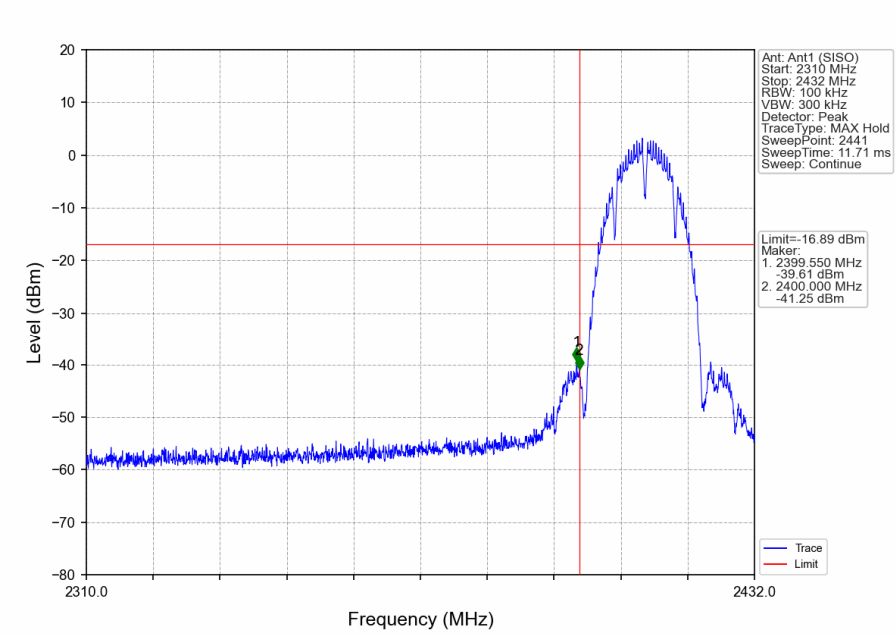
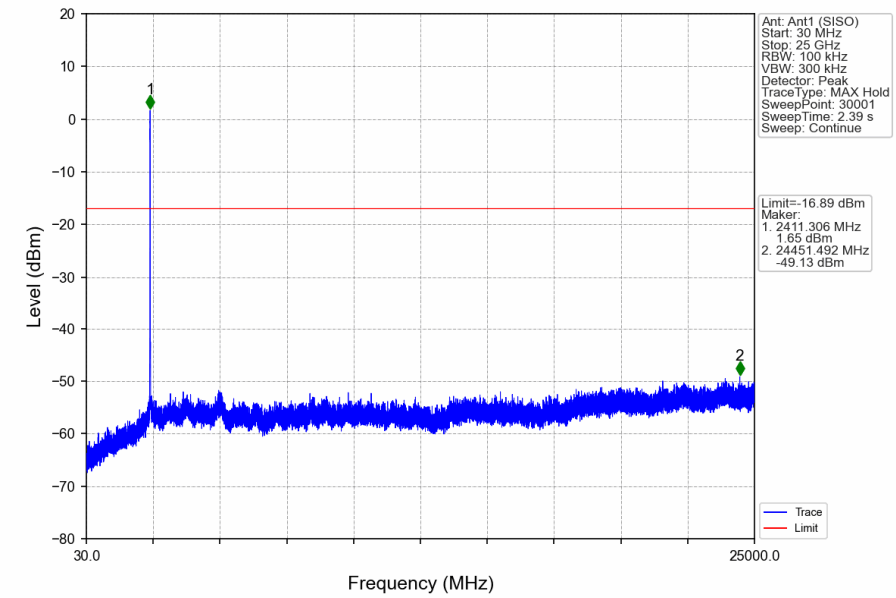
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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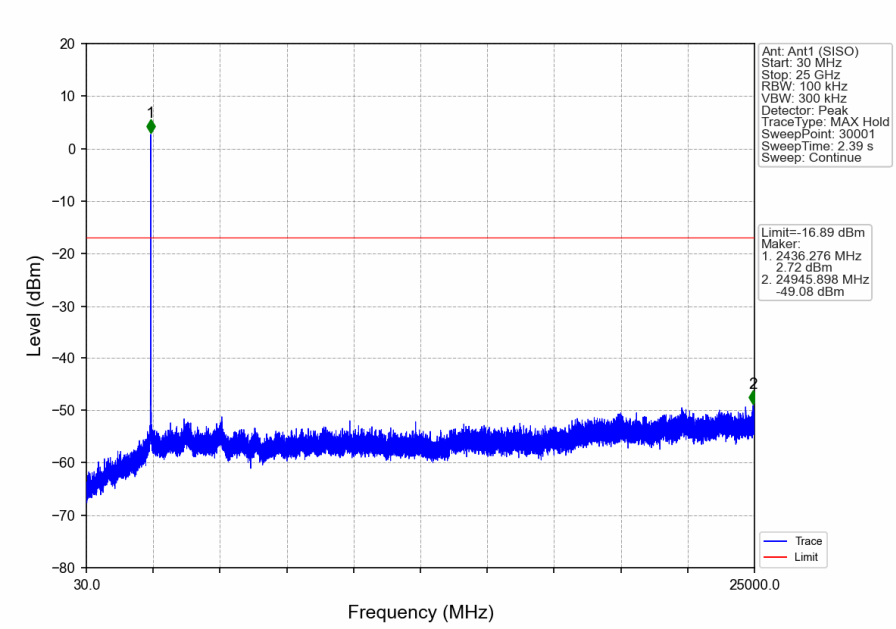
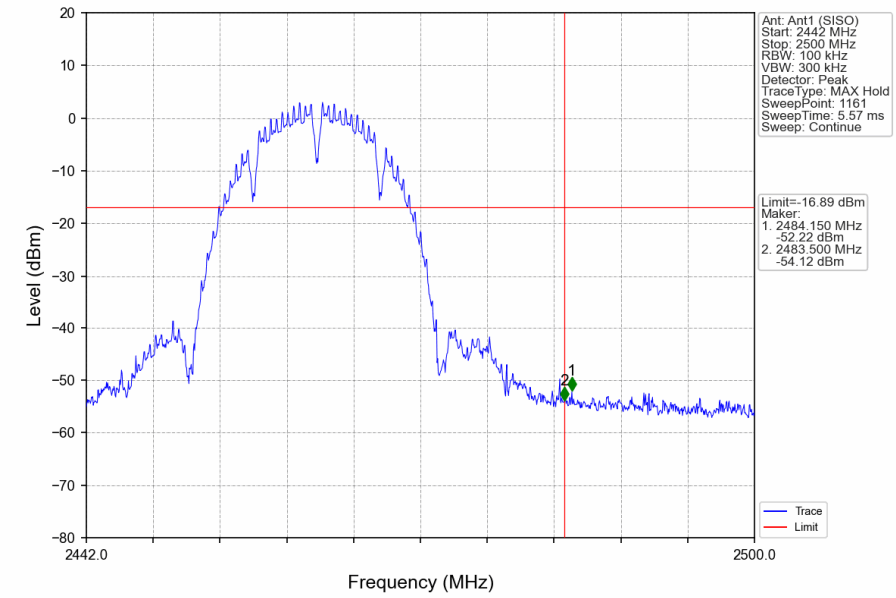
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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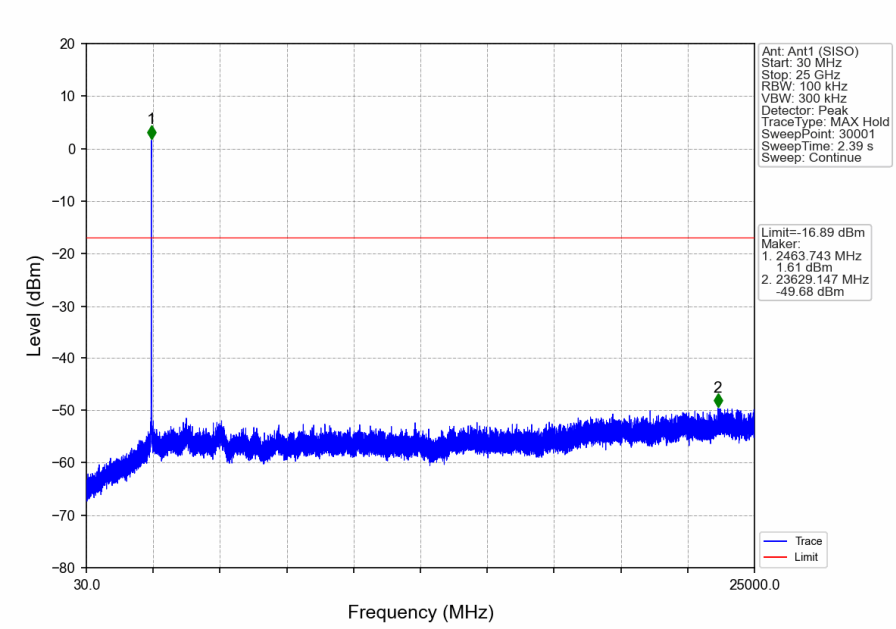
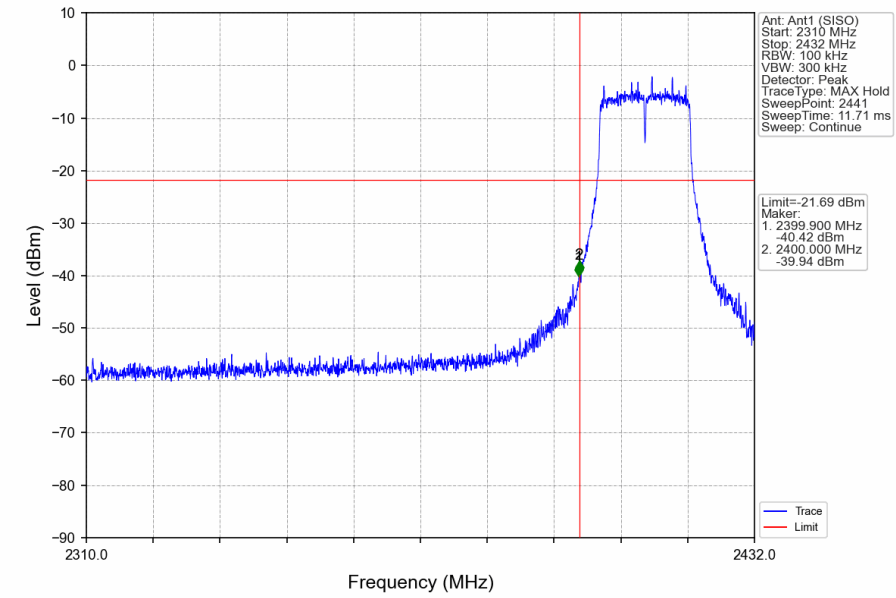
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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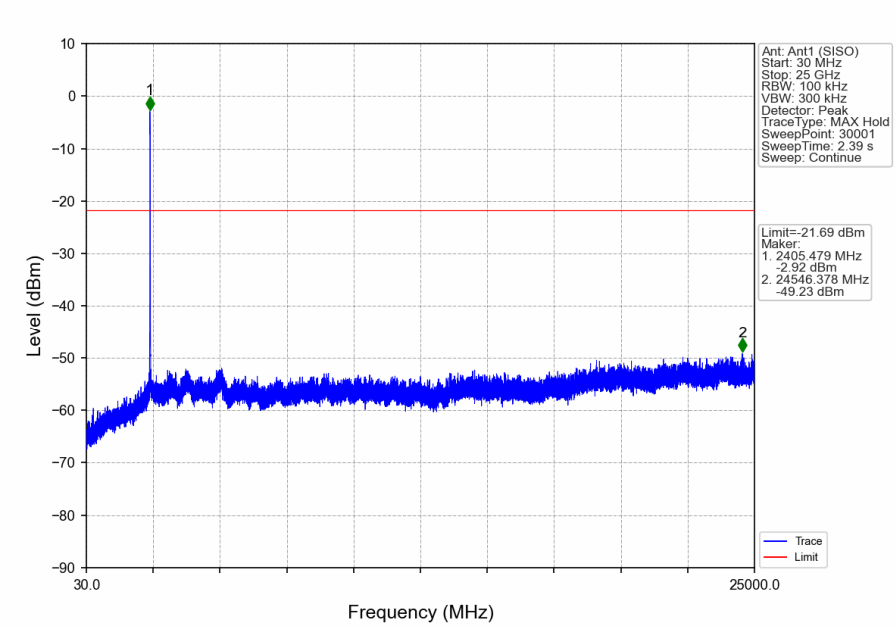
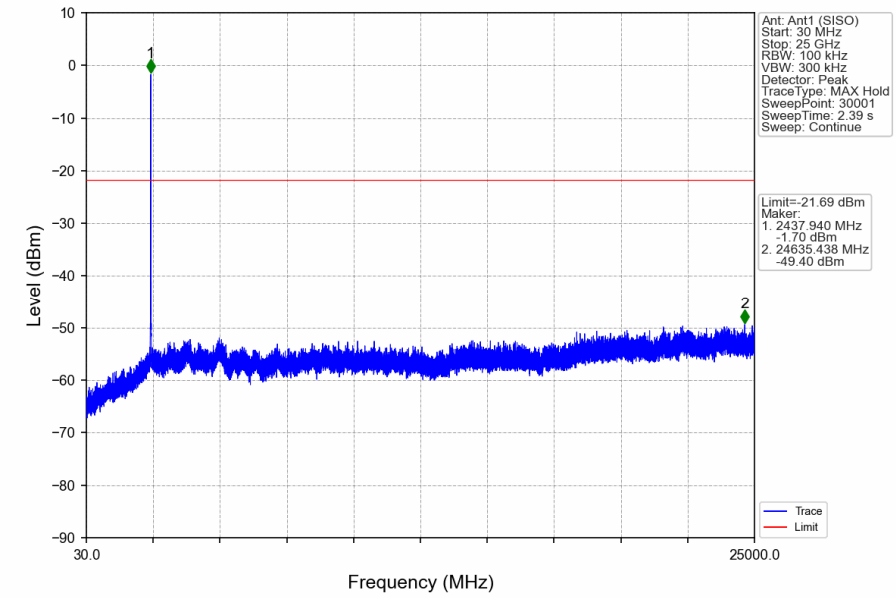
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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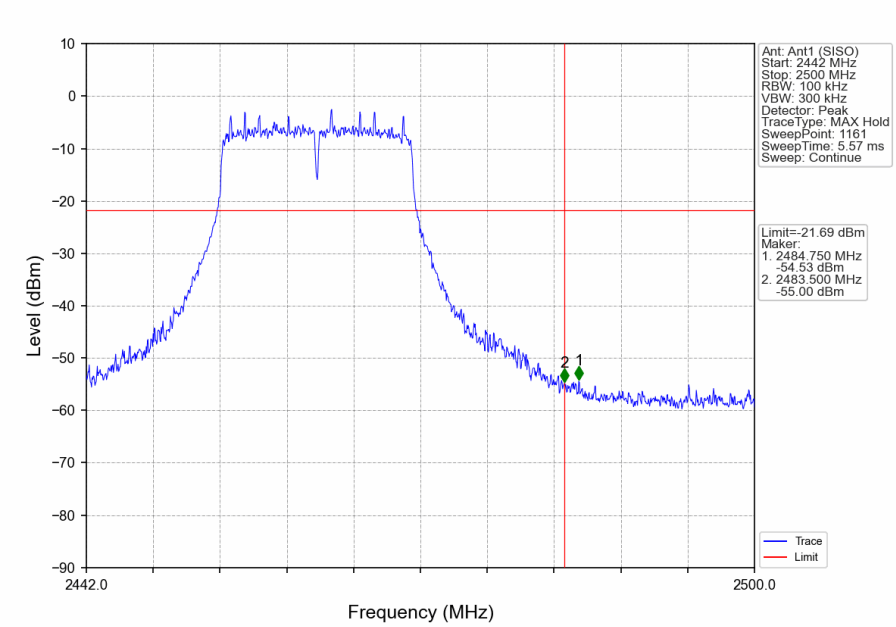
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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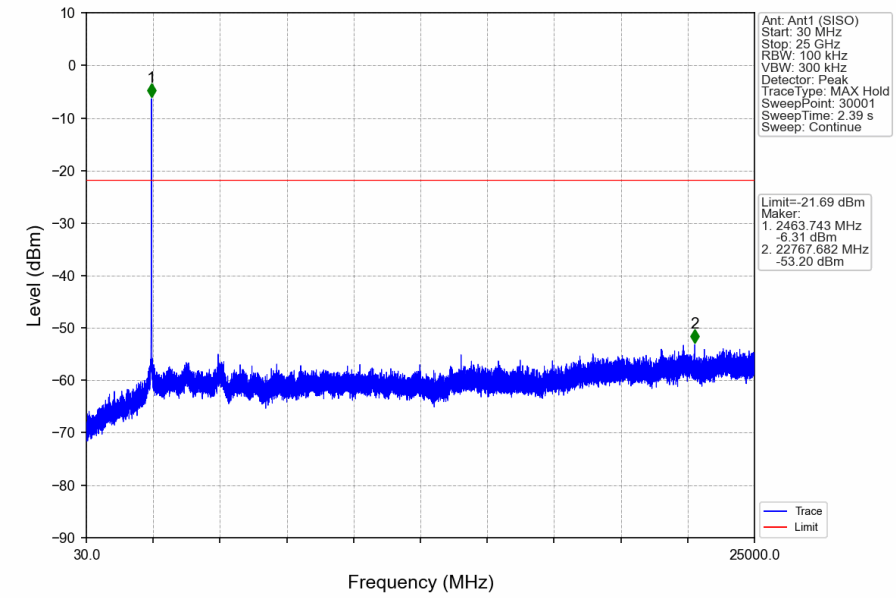

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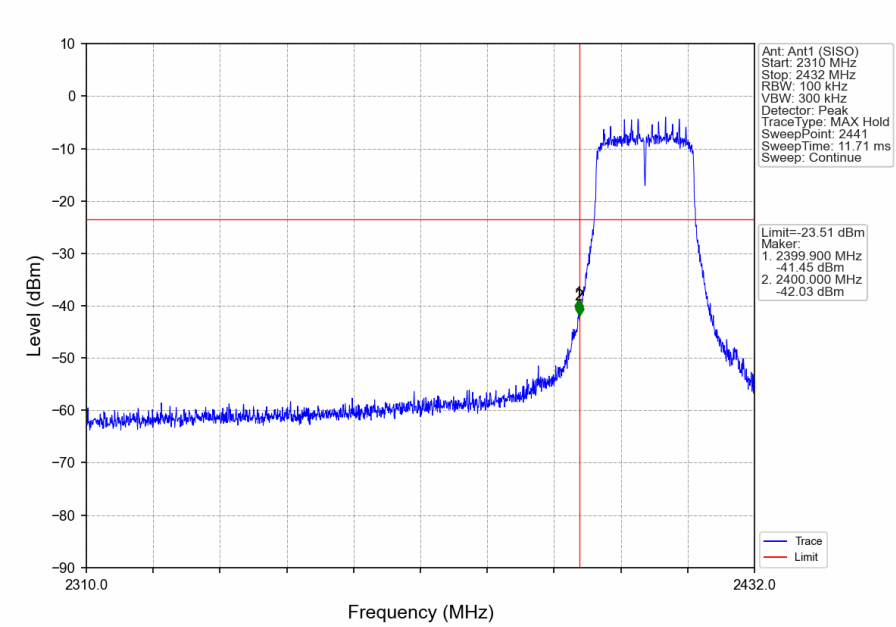
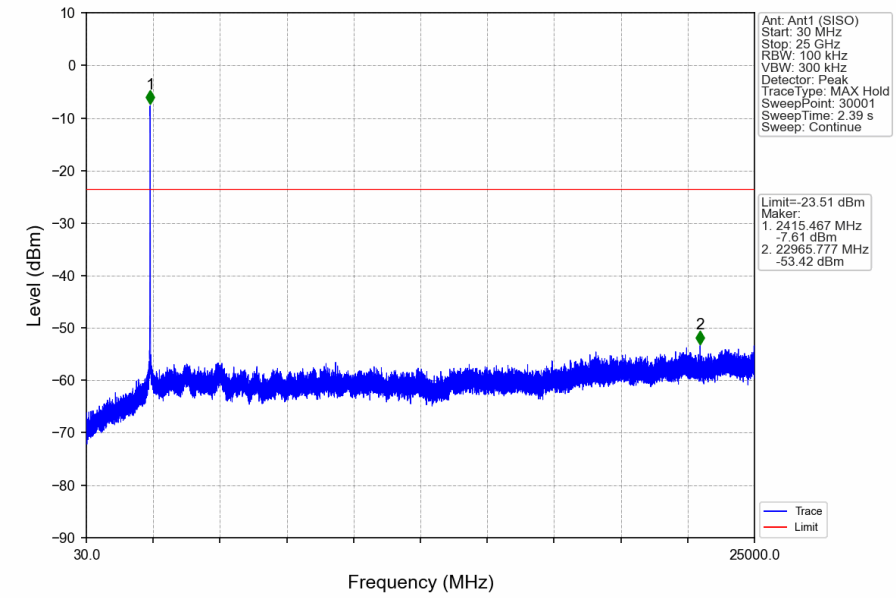
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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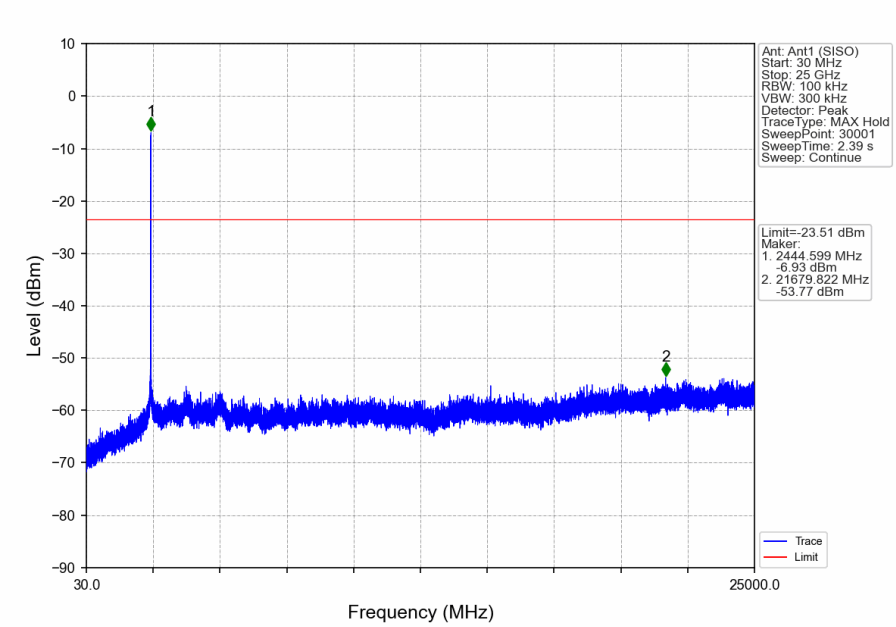
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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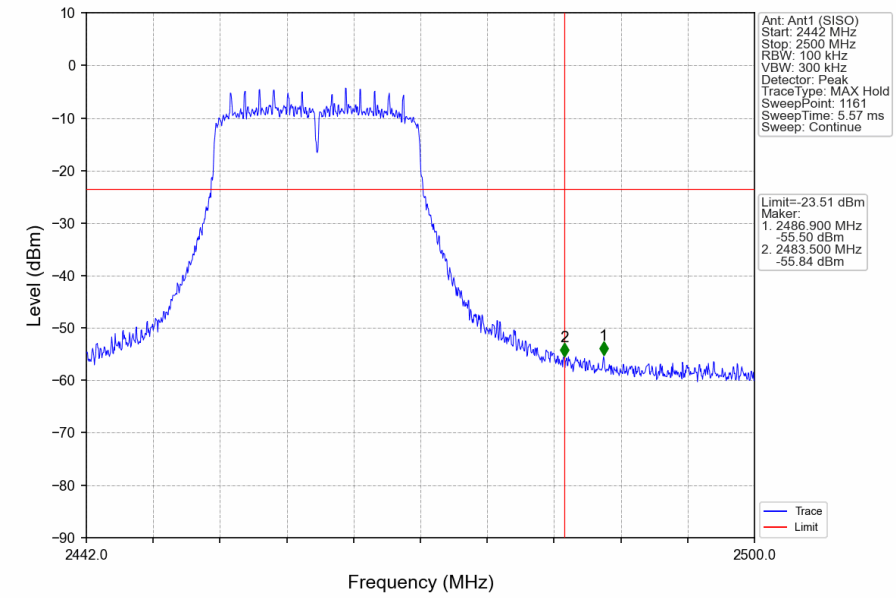

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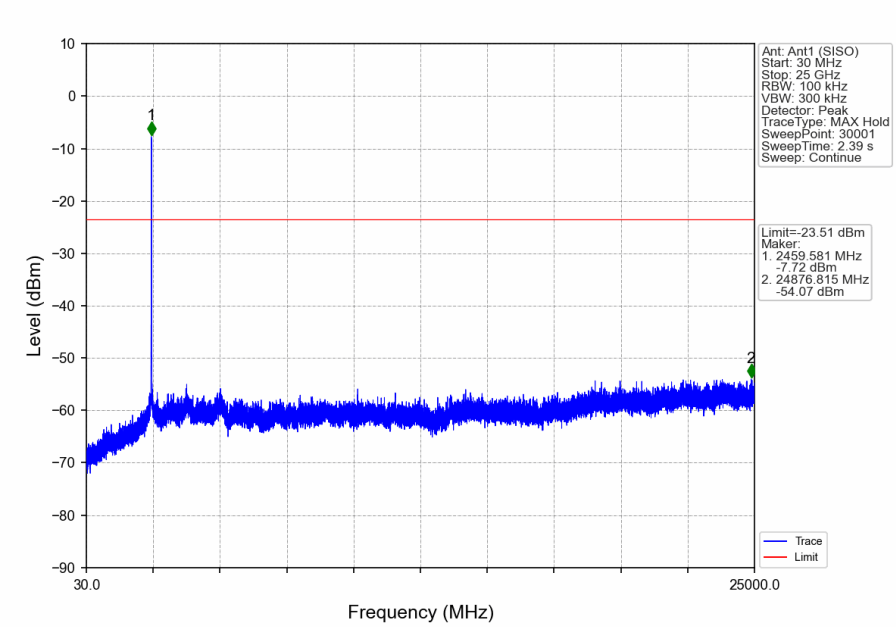
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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