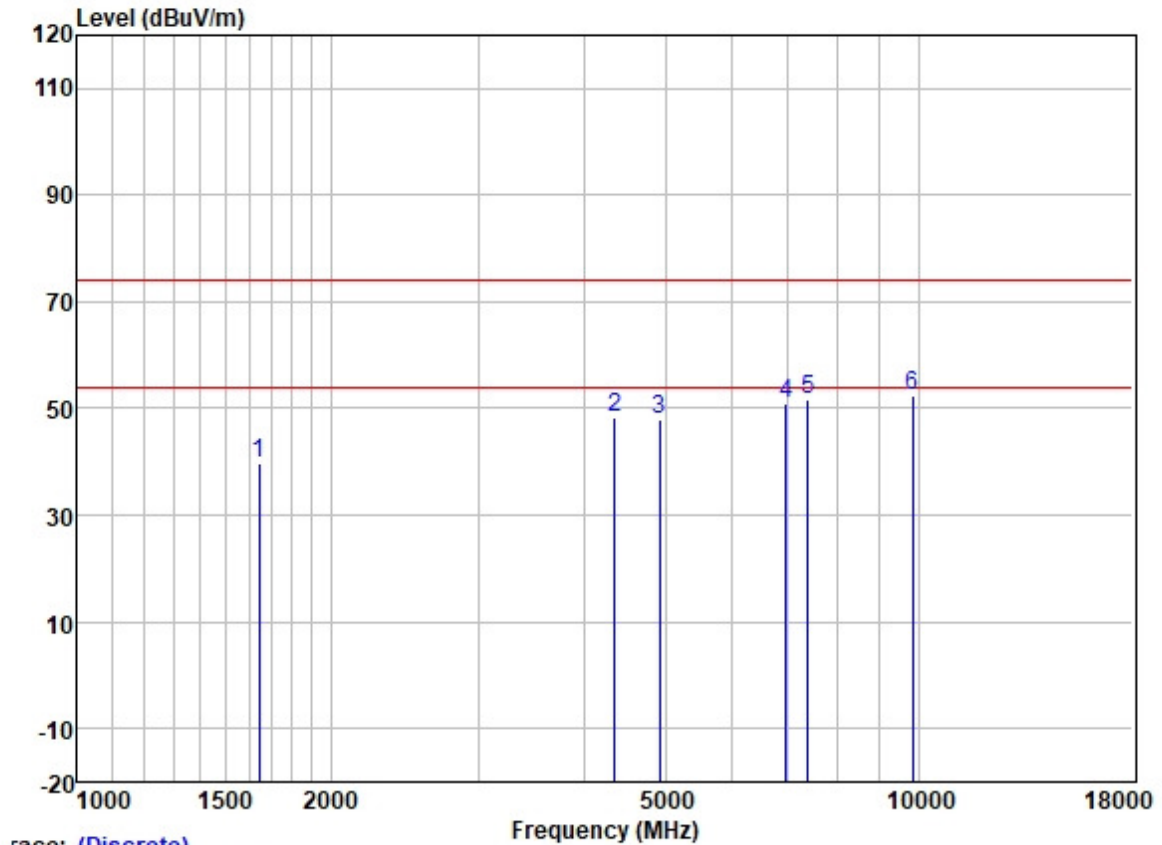
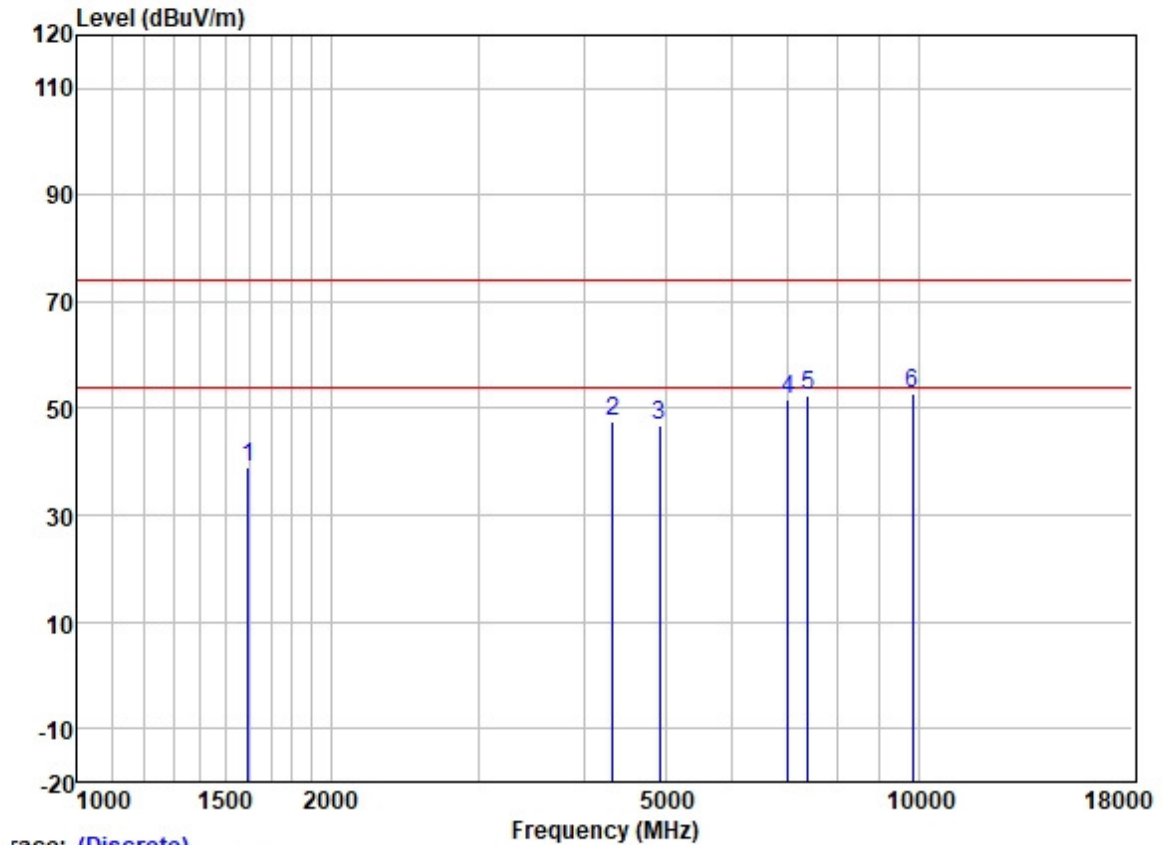


Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1644.019	49.20	25.63	2.80	37.93	39.70	74.00	-34.30	HORIZONTAL	Peak
2	4354.454	49.87	30.59	4.68	36.81	48.33	74.00	-25.67	HORIZONTAL	Peak
3	4924.000	47.53	31.62	5.60	36.84	47.91	74.00	-26.09	HORIZONTAL	Peak
4	6954.852	47.28	34.95	5.81	37.21	50.83	74.00	-23.17	HORIZONTAL	Peak
5	7386.000	46.69	36.17	6.19	37.45	51.60	74.00	-22.40	HORIZONTAL	Peak
6	9848.000	44.10	38.58	6.99	37.41	52.26	74.00	-21.74	HORIZONTAL	Peak

Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1597.181	48.68	25.58	2.80	37.98	39.08	74.00	-34.92	VERTICAL Peak
2	4329.354	49.29	30.54	4.67	36.81	47.69	74.00	-26.31	VERTICAL Peak
3	4924.000	46.48	31.62	5.60	36.84	46.86	74.00	-27.14	VERTICAL Peak
4	6995.172	48.17	35.00	5.81	37.25	51.73	74.00	-22.27	VERTICAL Peak
5	7386.000	47.52	36.17	6.19	37.45	52.43	74.00	-21.57	VERTICAL Peak
6	9848.000	44.67	38.58	6.99	37.41	52.83	74.00	-21.17	VERTICAL Peak

8 Test Setup Photo

Refer to Appendix – Setup Photo for GZCR2110021230AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021230AT



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10 Appendix

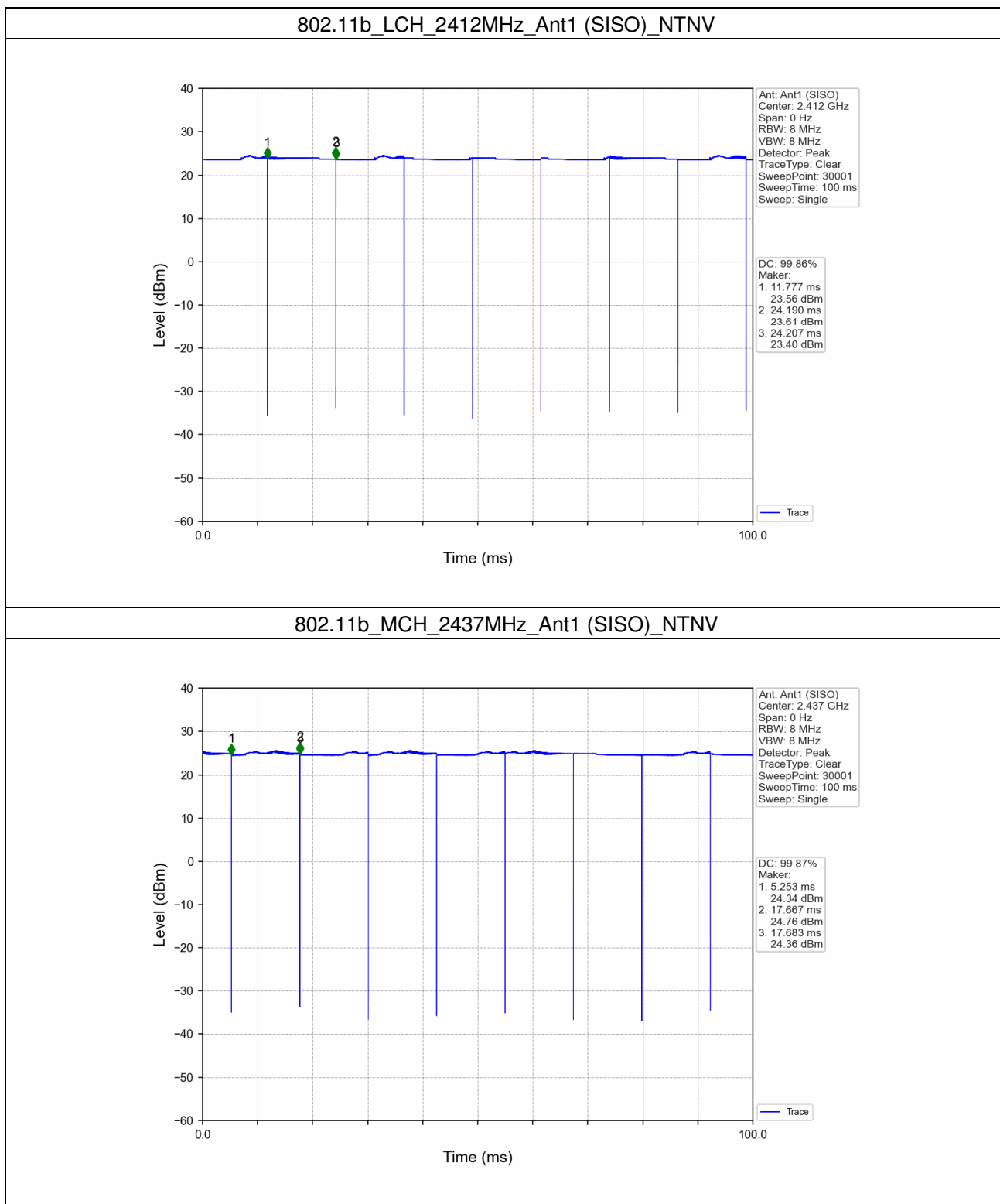
1. Duty Cycle

1.1 Ant1

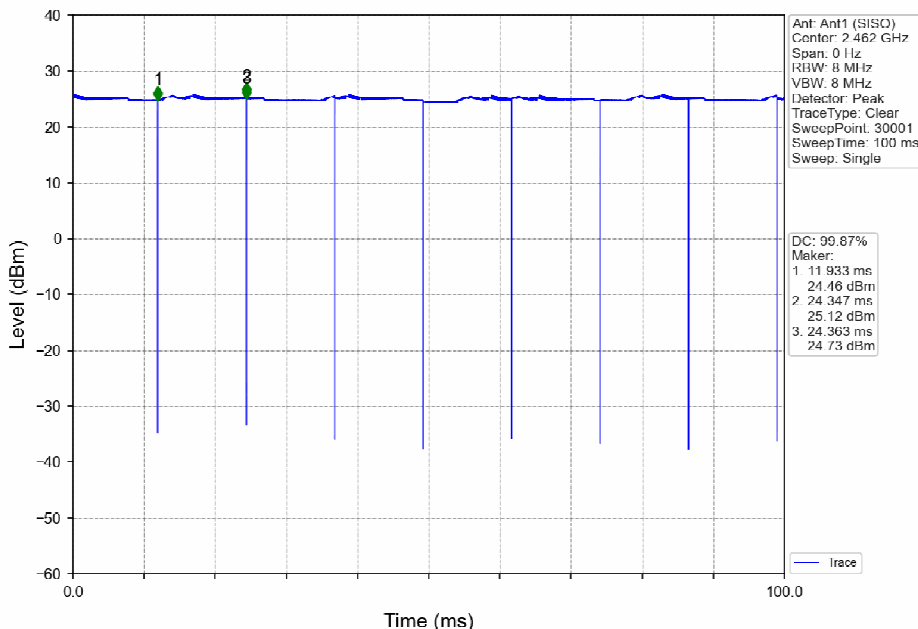
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.413	12.430	99.86	0.01	0.00
		2437	12.414	12.430	99.87	0.01	0.00
		2462	12.414	12.430	99.87	0.01	0.00
802.11g	SISO	2412	2.062	2.083	98.99	0.04	0.04
		2437	2.063	2.084	98.99	0.04	0.04
		2462	2.063	2.082	99.09	0.04	0.04
802.11n (HT20)	MIMO	2412	1.919	1.939	98.97	0.05	0.00
		2437	1.920	1.940	98.97	0.05	0.03
		2462	1.919	1.940	98.92	0.05	0.03

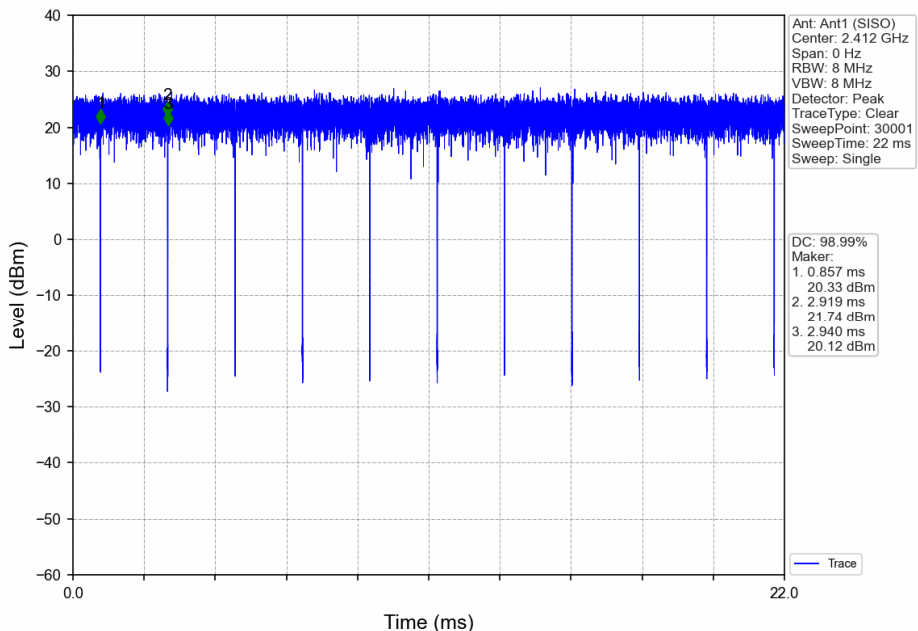
1.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

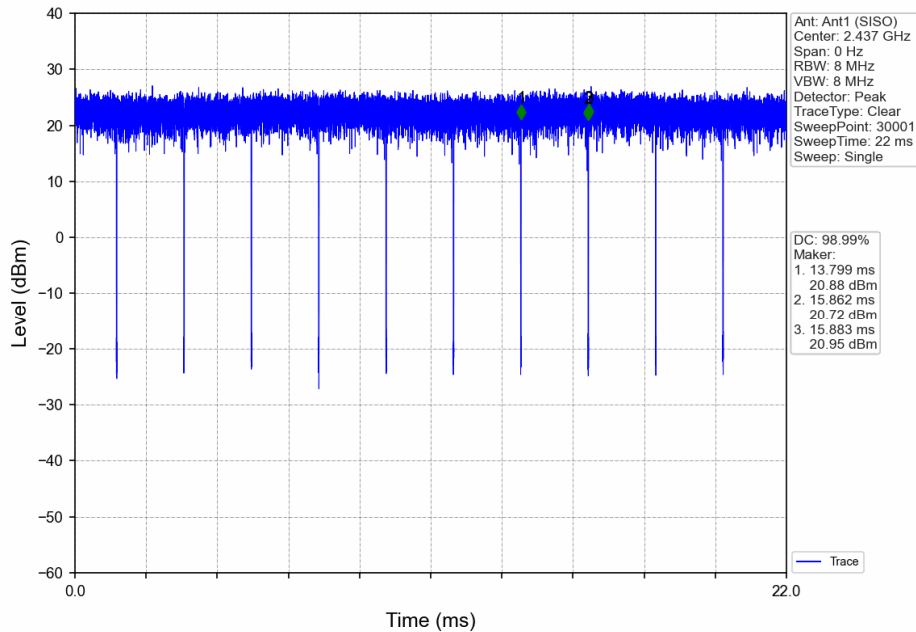


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

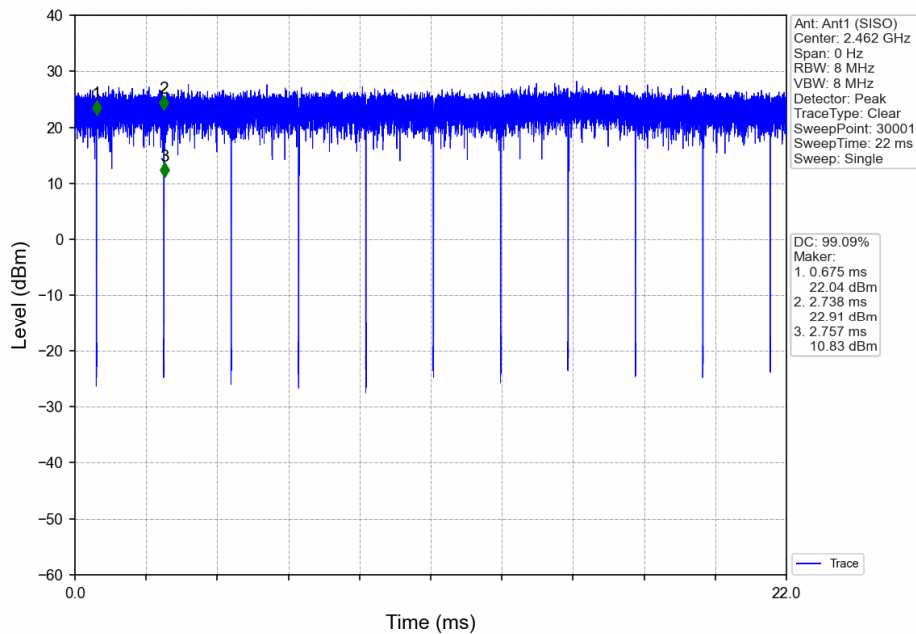


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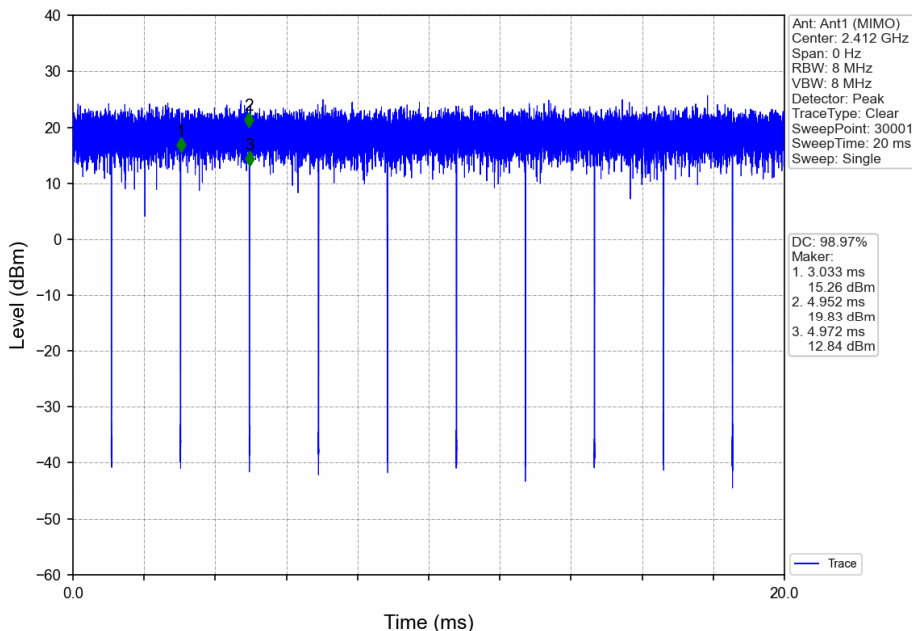
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



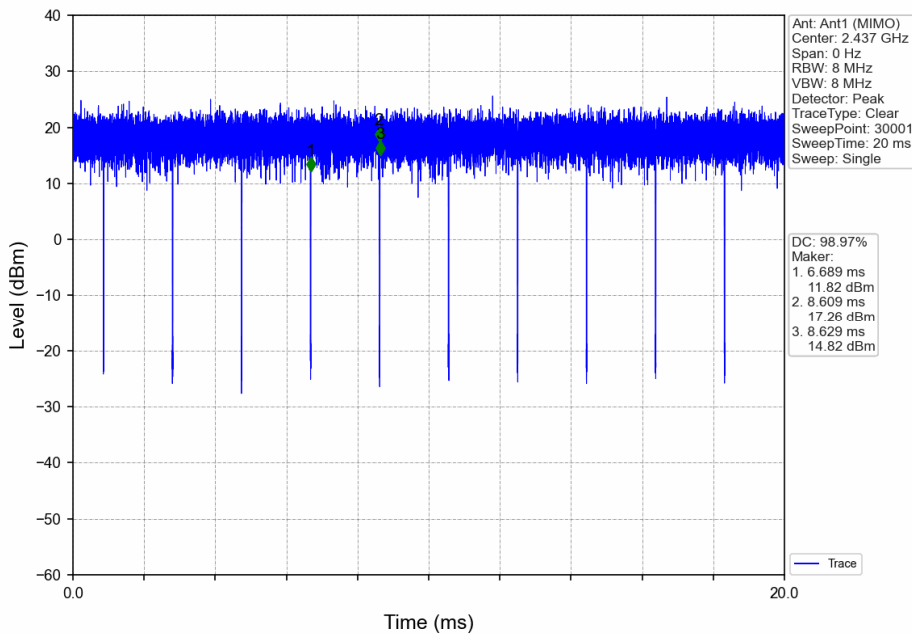
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



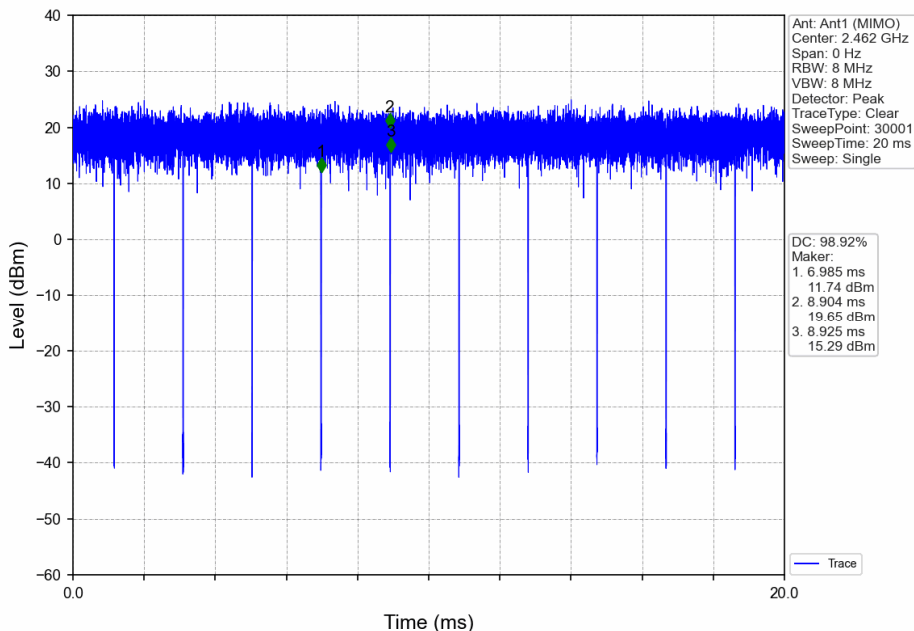
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

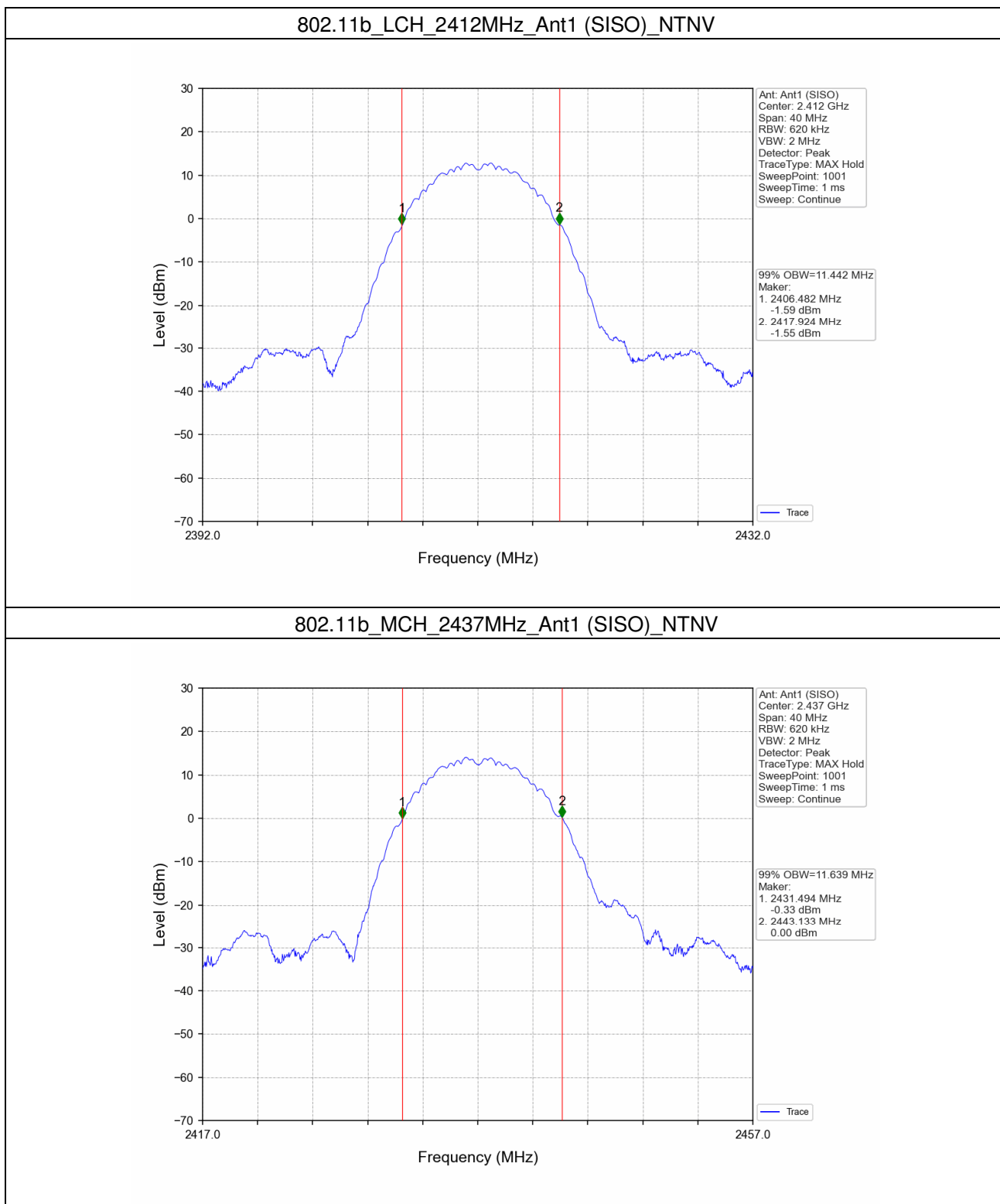
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	11.442	Pass
		2437	1	11.639	Pass
		2462	1	11.755	Pass
802.11g	SISO	2412	1	21.546	Pass
		2437	1	21.124	Pass
		2462	1	23.546	Pass
802.11n (HT20)	MIMO	2412	1	19.263	Pass
		2437	1	19.136	Pass
		2462	1	19.089	Pass



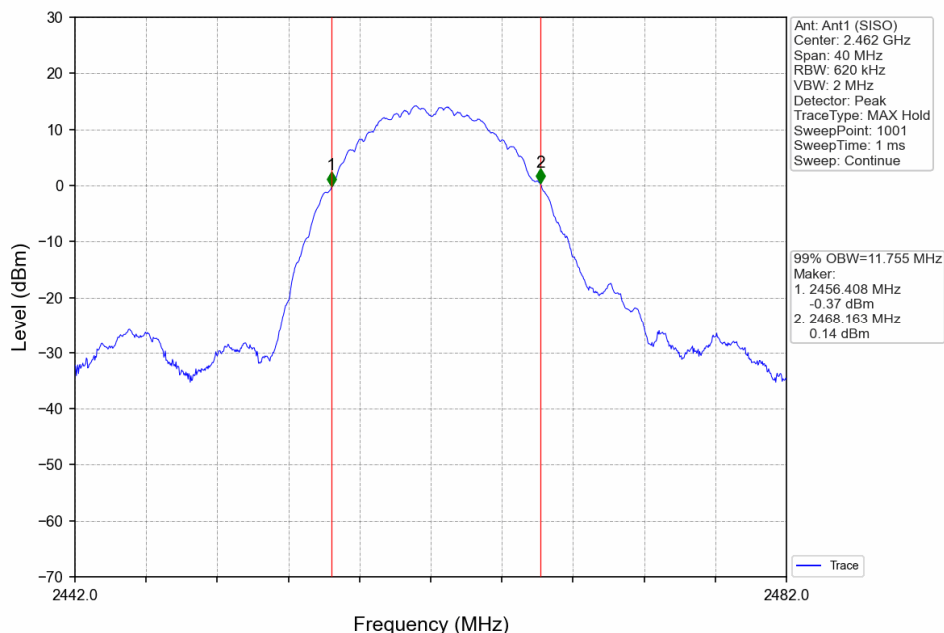
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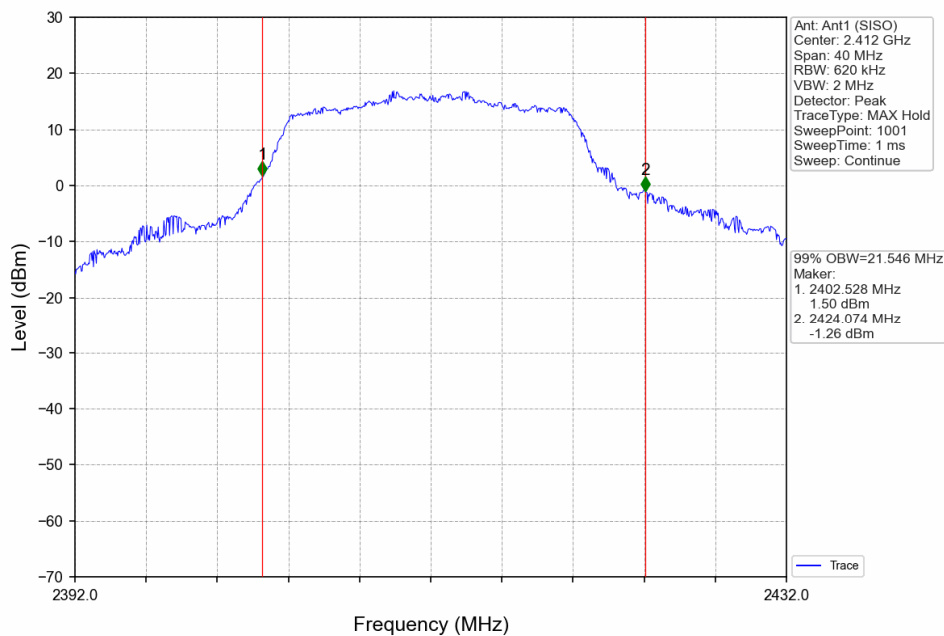
2.1.2 Test Graph



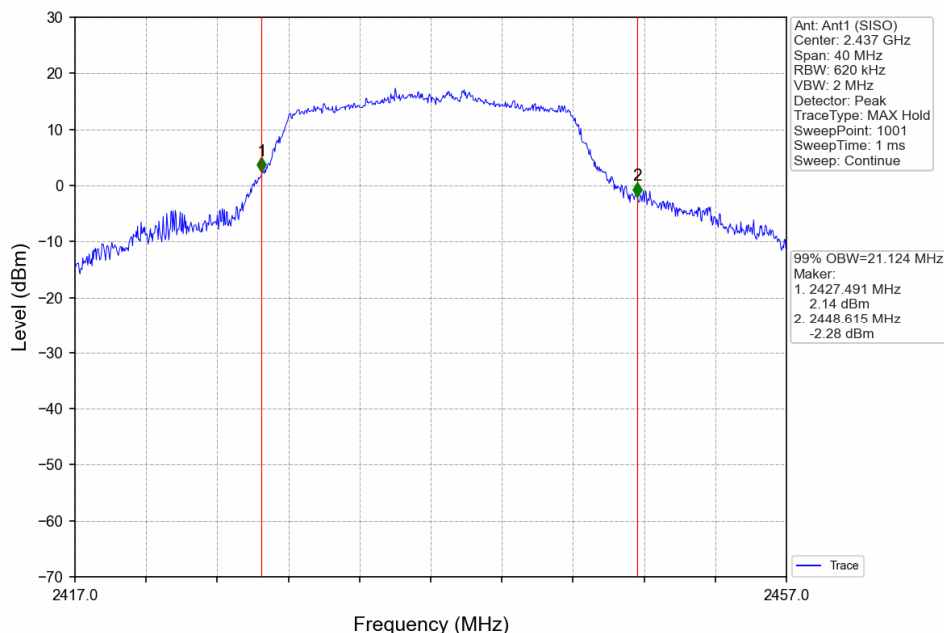
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



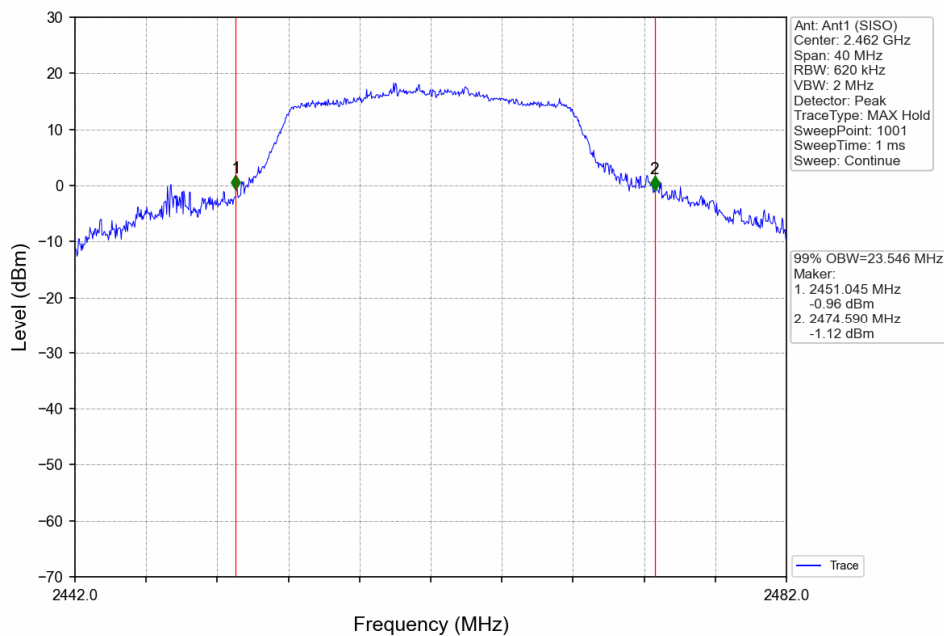
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



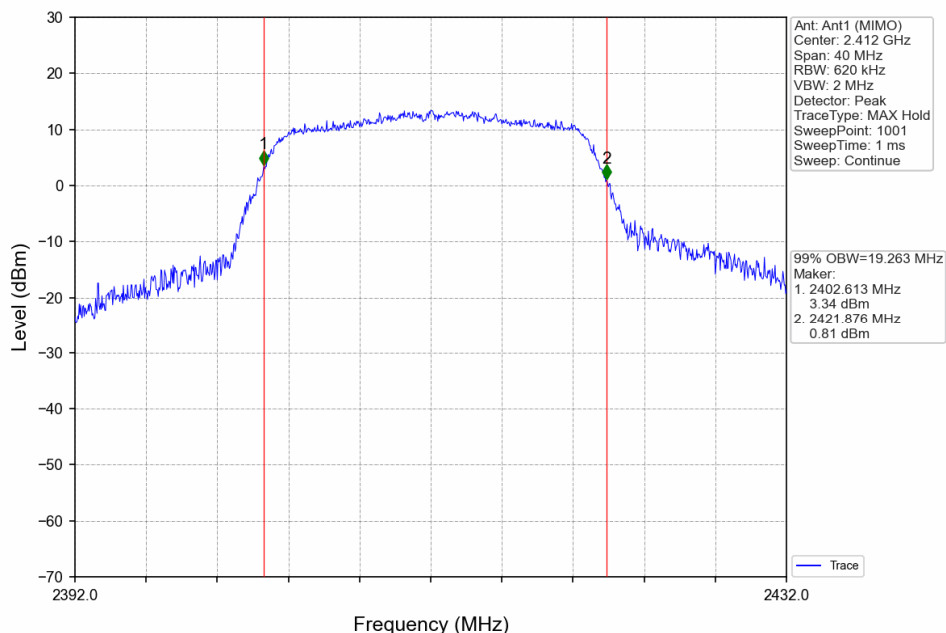
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



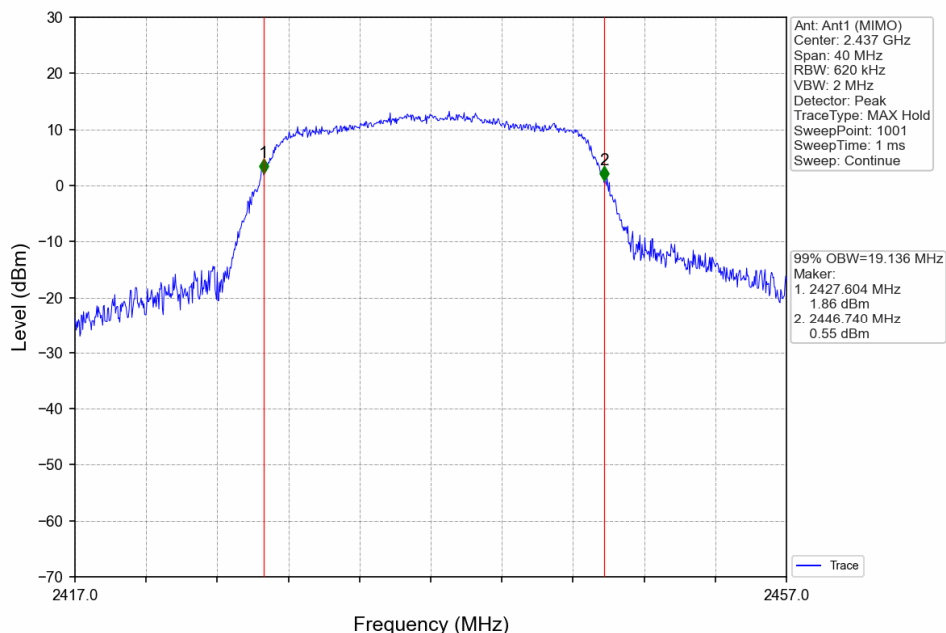
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



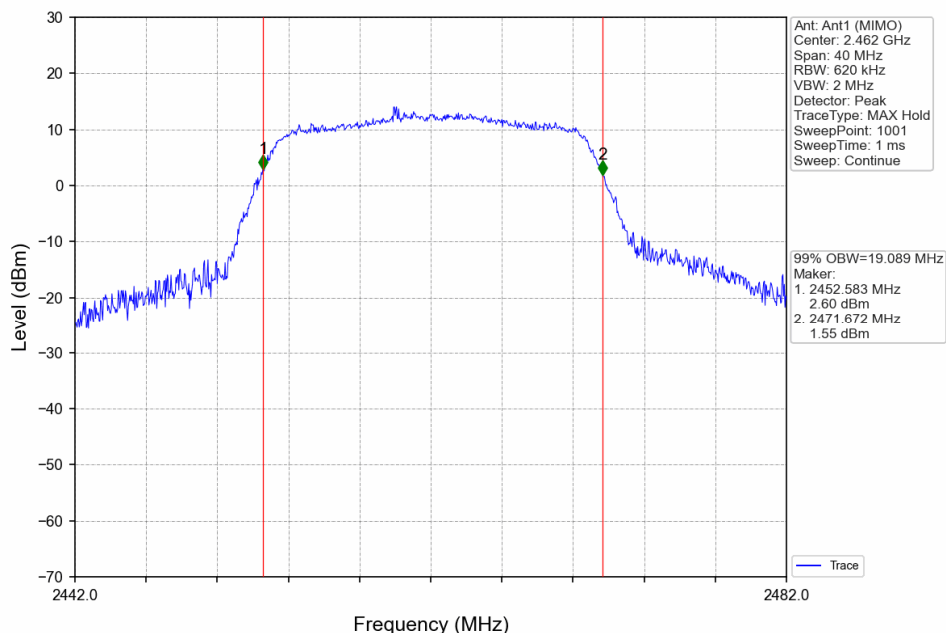
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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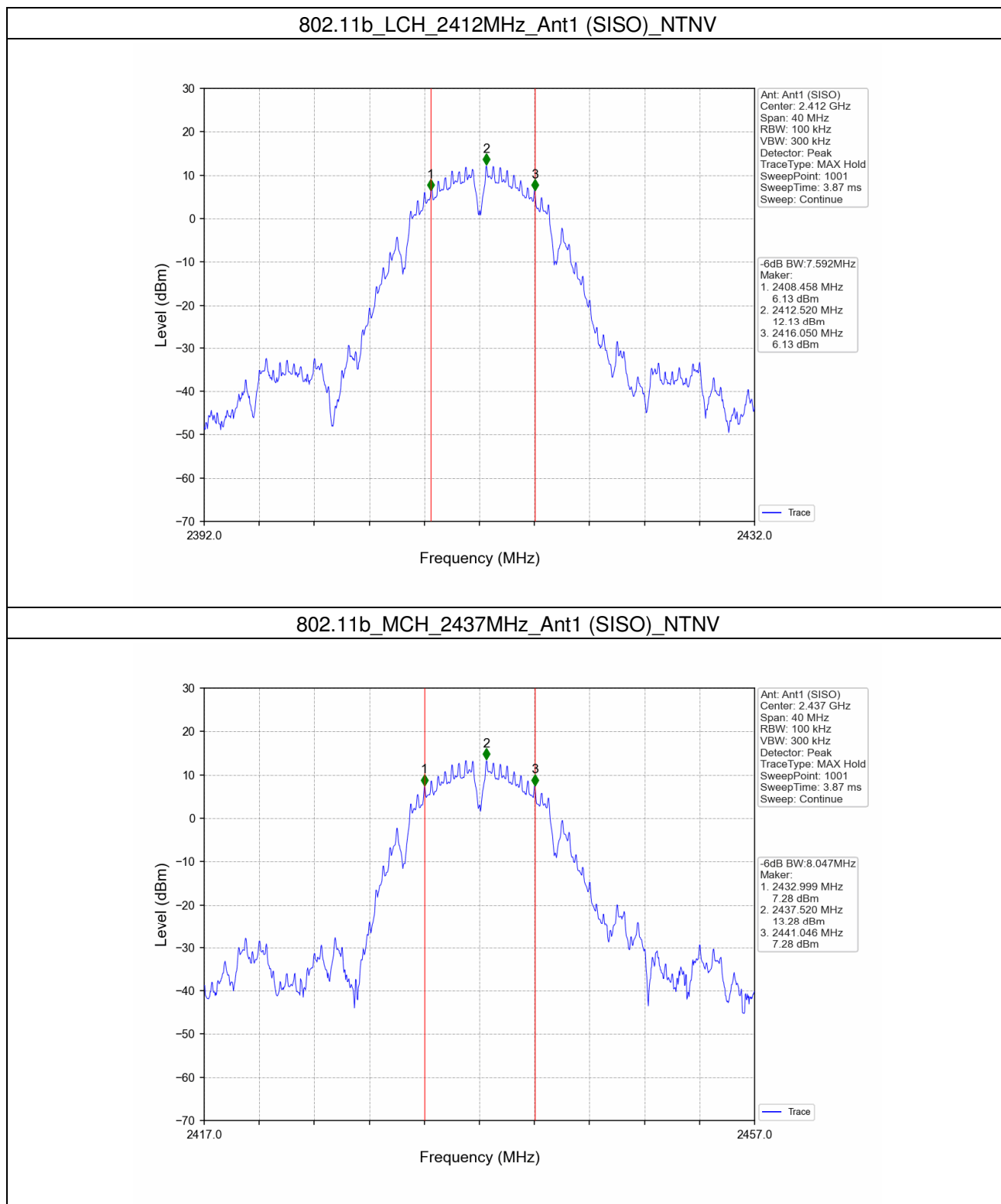
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2.2 6dB BW

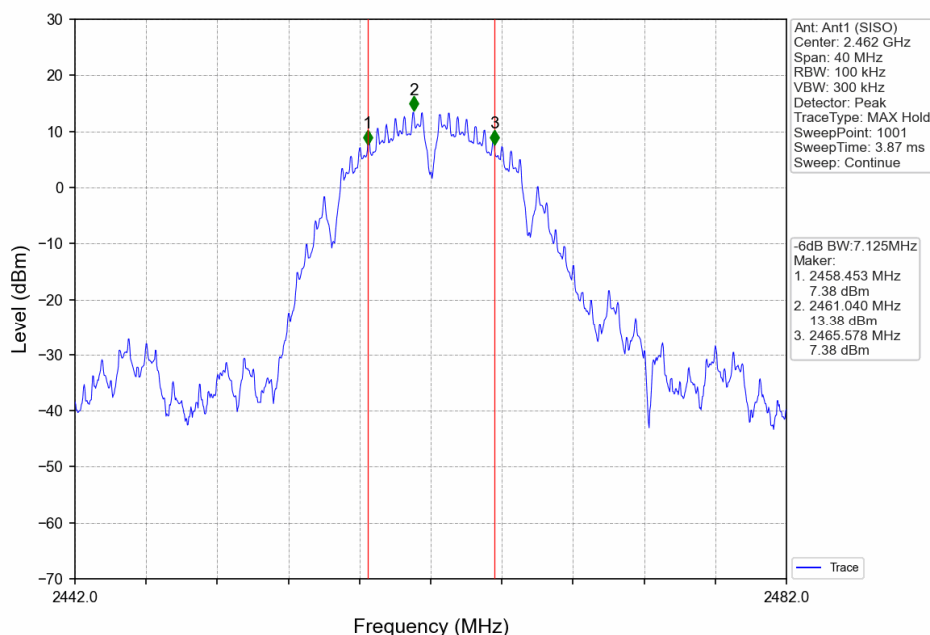
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.592	≥ 0.5	Pass
		2437	1	8.047	≥ 0.5	Pass
		2462	1	7.125	≥ 0.5	Pass
802.11g	SISO	2412	1	16.360	≥ 0.5	Pass
		2437	1	16.373	≥ 0.5	Pass
		2462	1	16.429	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.596	≥ 0.5	Pass
		2437	1	17.599	≥ 0.5	Pass
		2462	1	17.591	≥ 0.5	Pass

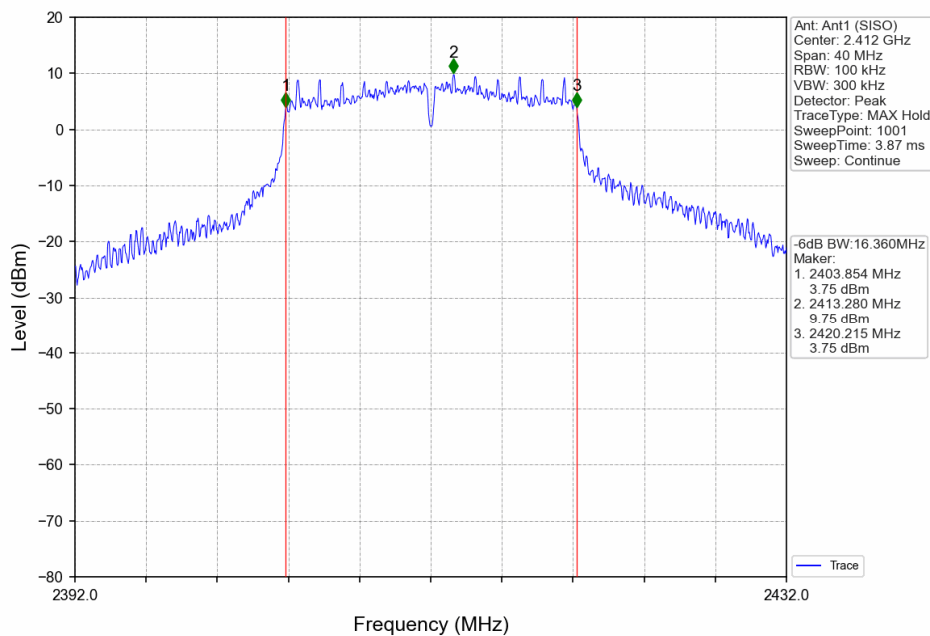
2.2.2 Test Graph



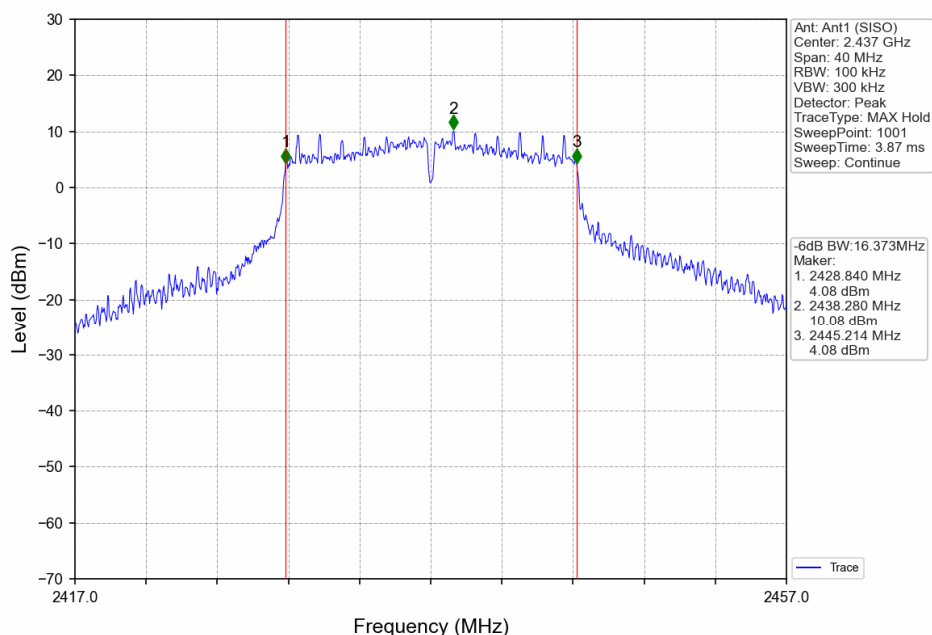
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



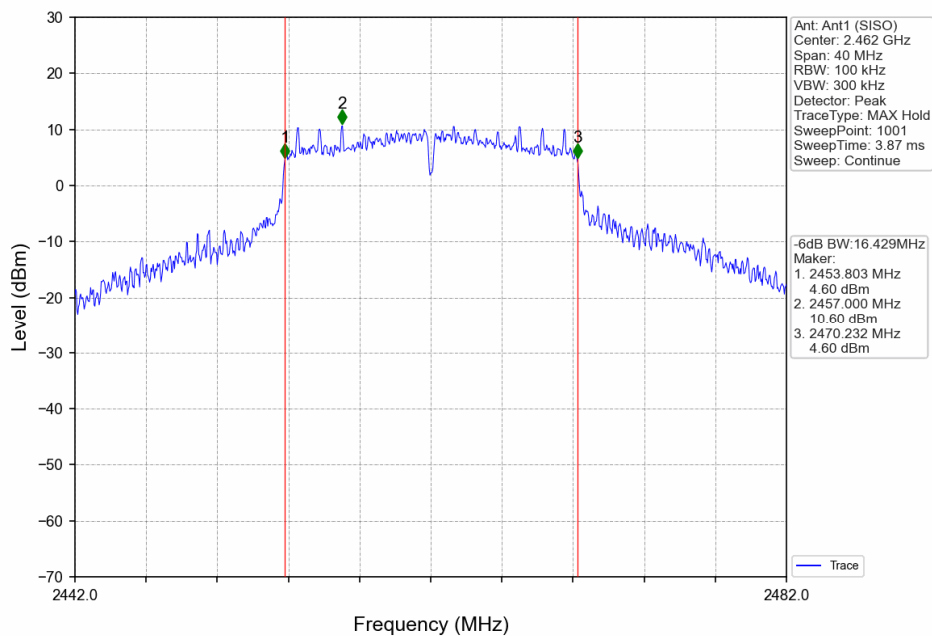
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



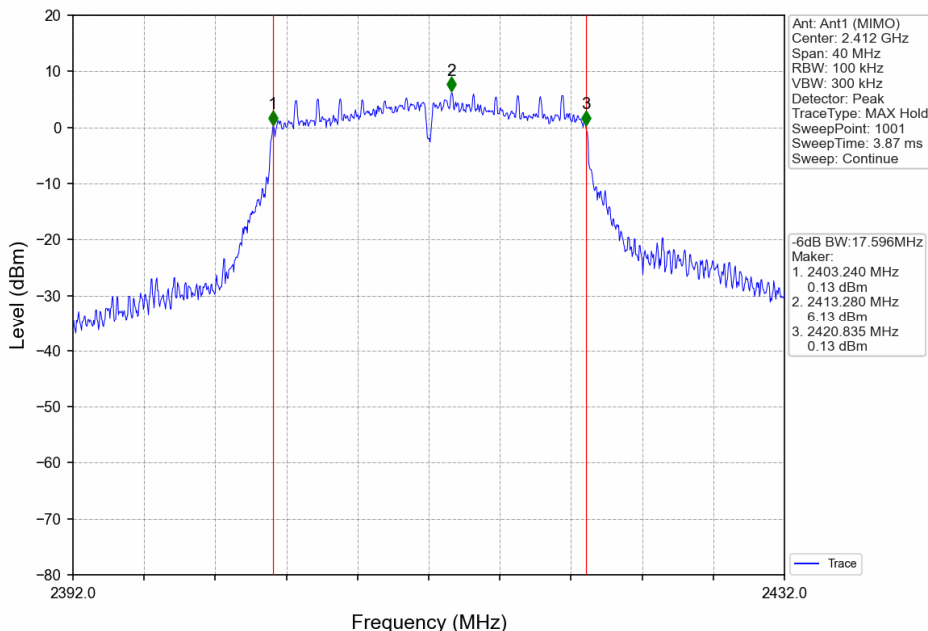
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



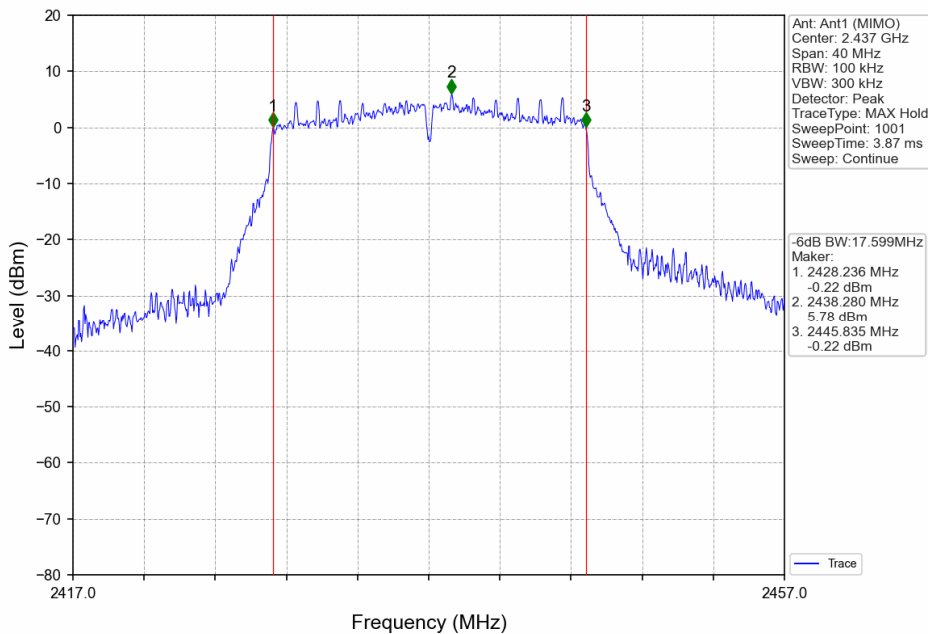
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

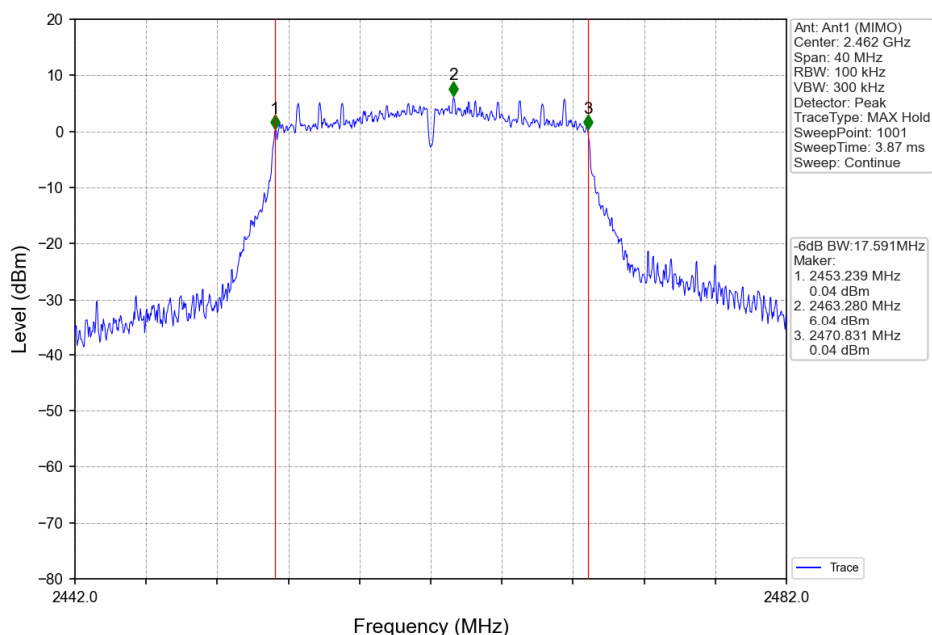


802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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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	Ant2	MIMO	Limit	
802.11b	SISO	2412	20.31	19.61	/	<=30	Pass
		2437	21.15	20.52	/	<=30	Pass
		2462	20.03	19.19	/	<=30	Pass
802.11g	SISO	2412	22.01	22.57	/	<=30	Pass
		2437	22.21	22.24	/	<=30	Pass
		2462	22.04	22.00	/	<=30	Pass
802.11n (HT20)	MIMO	2412	21.57	21.36	24.48	<=30	Pass
		2437	21.01	21.22	24.13	<=30	Pass
		2462	20.75	21.00	23.89	<=30	Pass
Note1: Antenna Gain: Ant1: 3.59dBi; Ant2: 3.59dBi; Note2: Directional Gain: 3.59dBi							

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

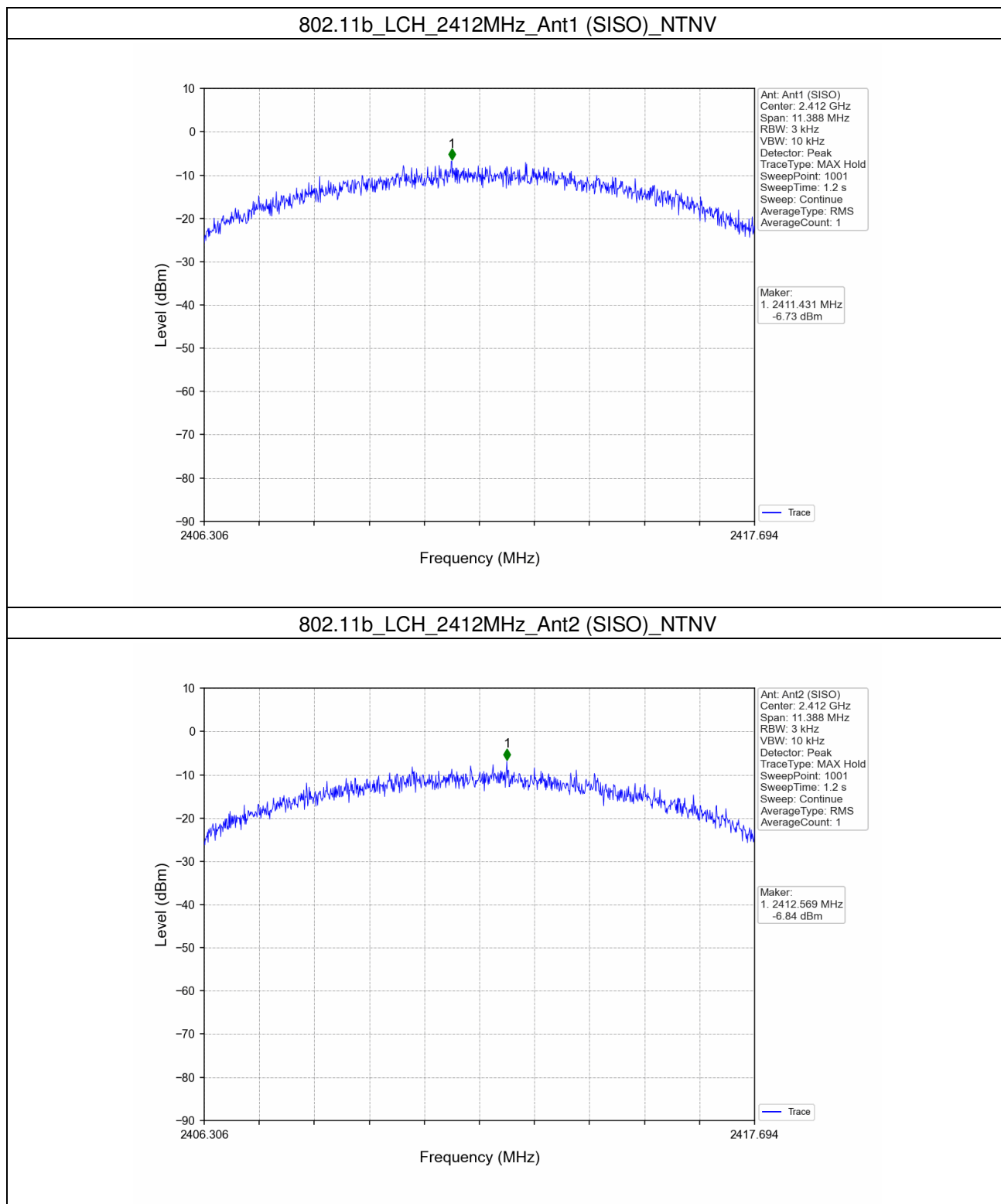
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-6.73	-6.84	/	<=8	Pass
		2437	-7.41	-7.54	/	<=8	Pass
		2462	-7.10	-7.39	/	<=8	Pass
802.11g	SISO	2412	-8.67	-9.38	/	<=8	Pass
		2437	-9.46	-9.78	/	<=8	Pass
		2462	-9.15	-10.43	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-11.40	-11.77	-8.94	<=8	Pass
		2437	-12.33	-12.01	-9.37	<=8	Pass
		2462	-11.59	-11.81	-8.92	<=8	Pass



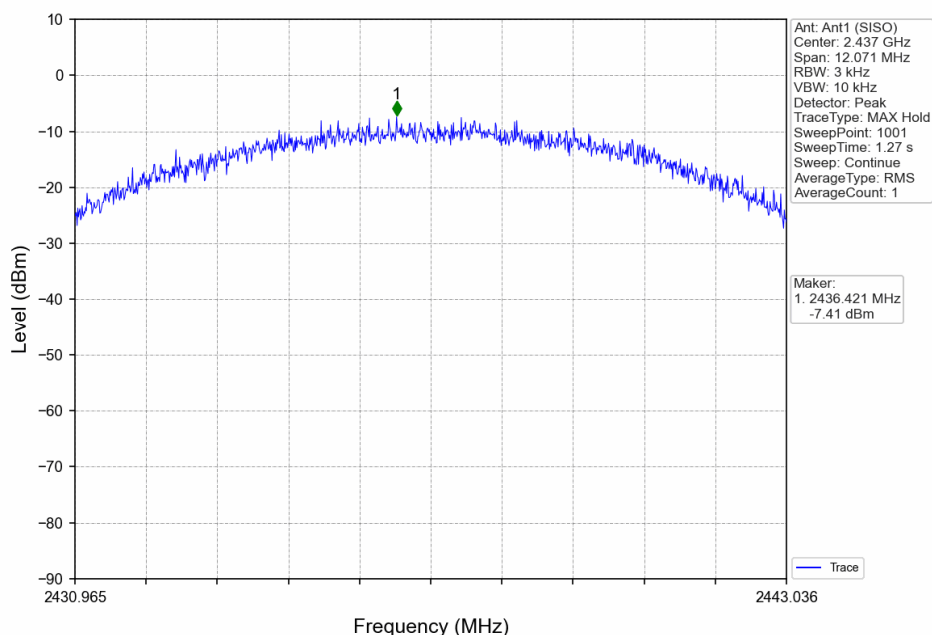
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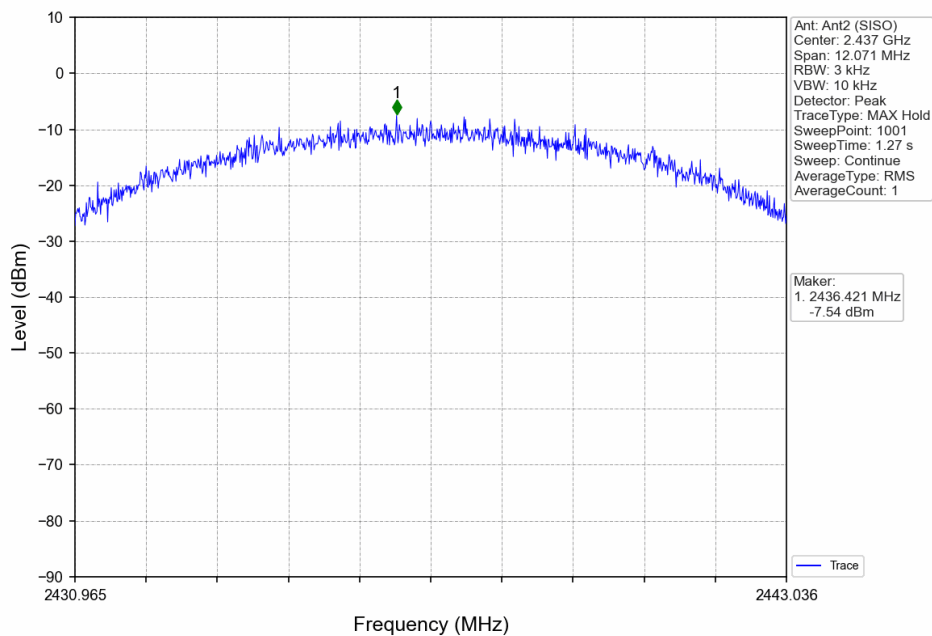
4.1.2 Test Graph



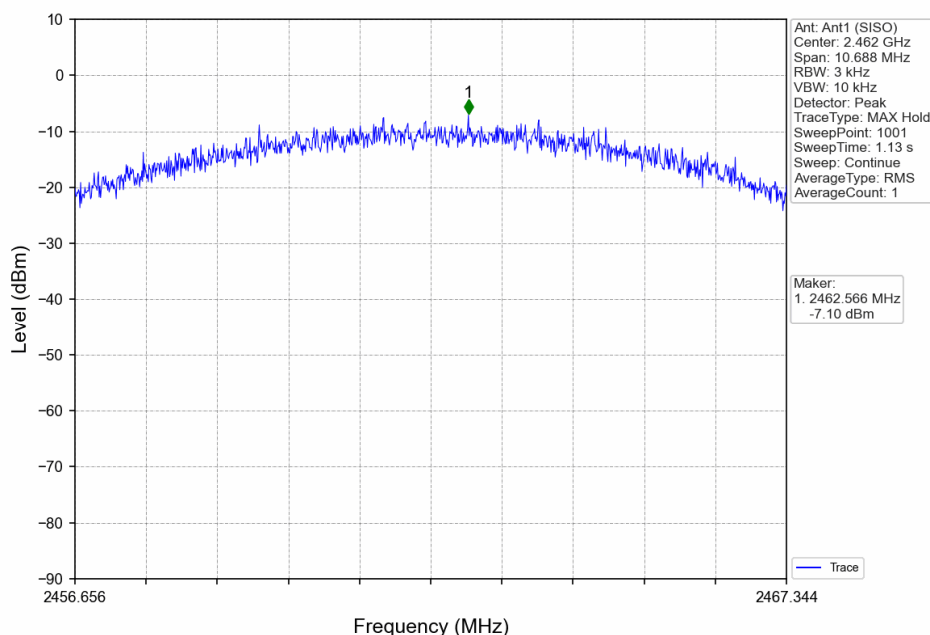
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



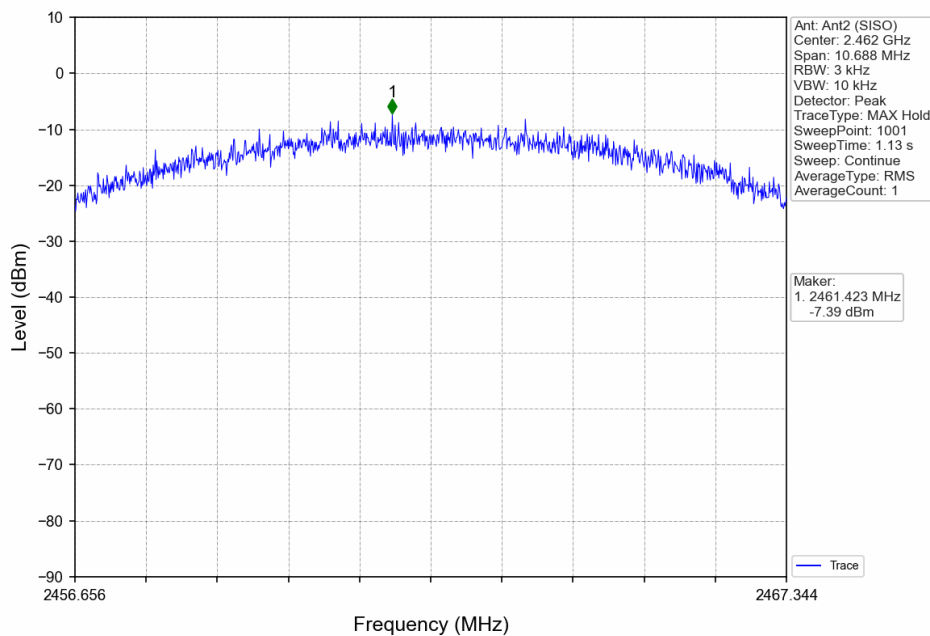
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



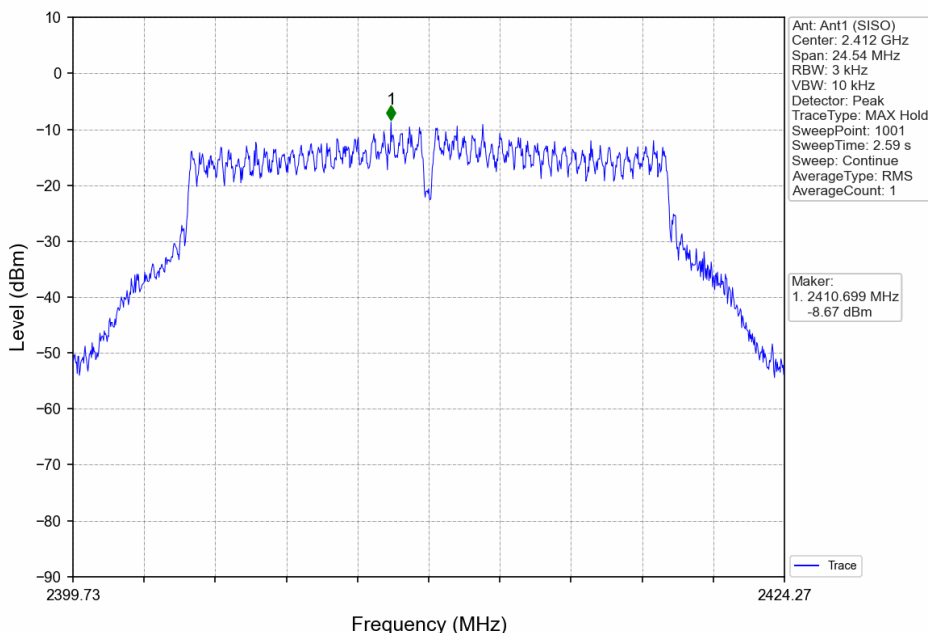
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



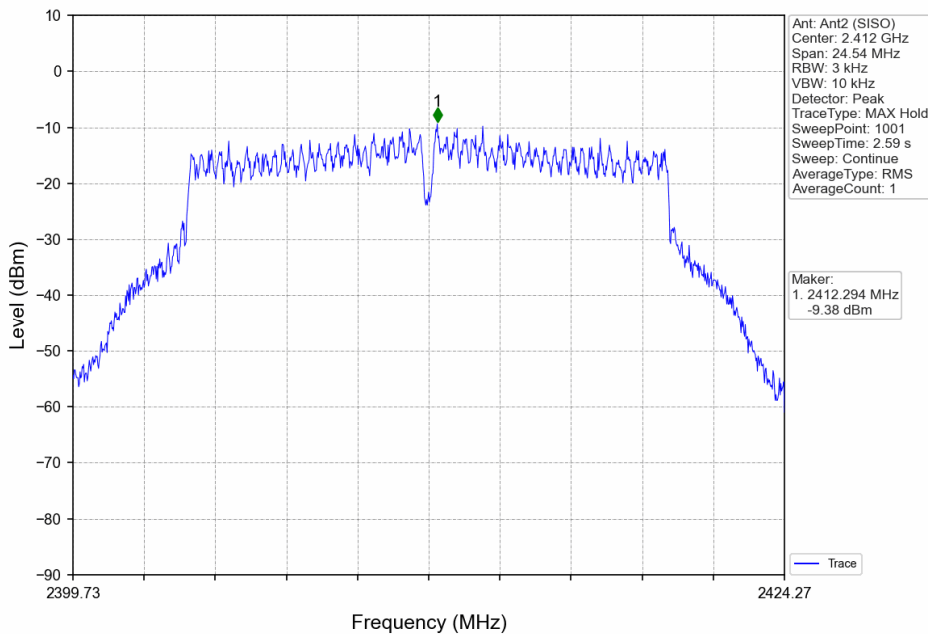
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



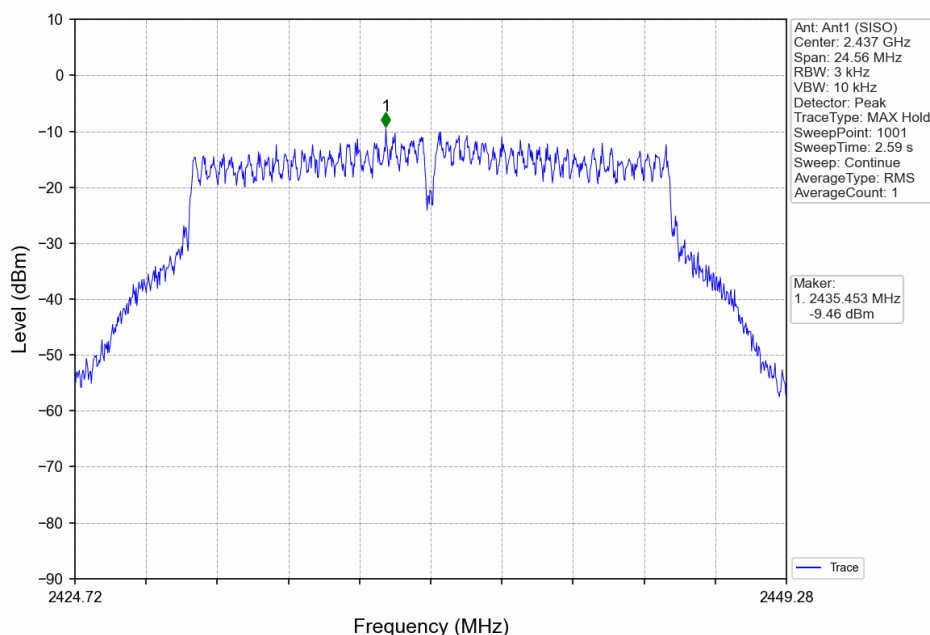
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



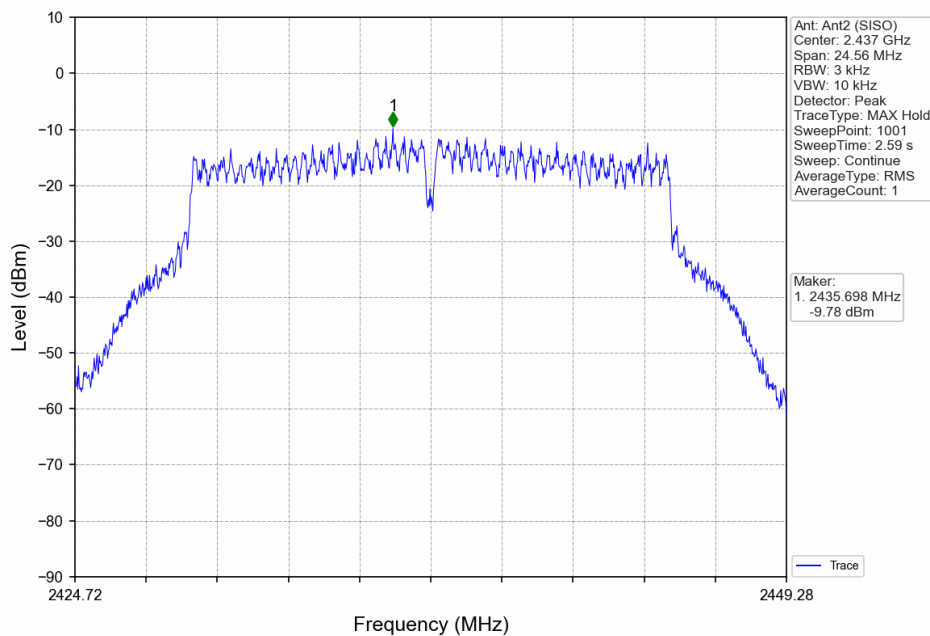
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



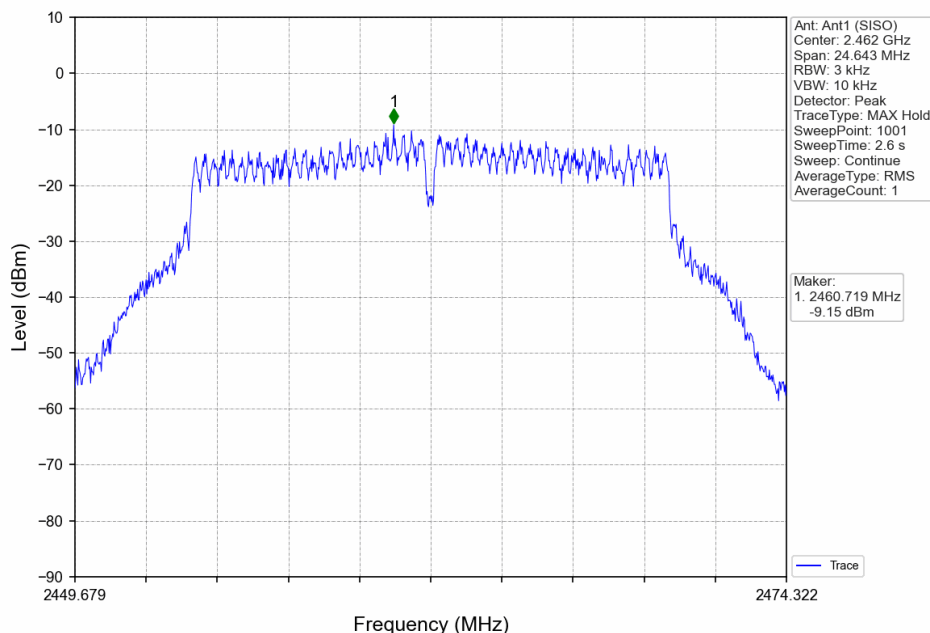
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



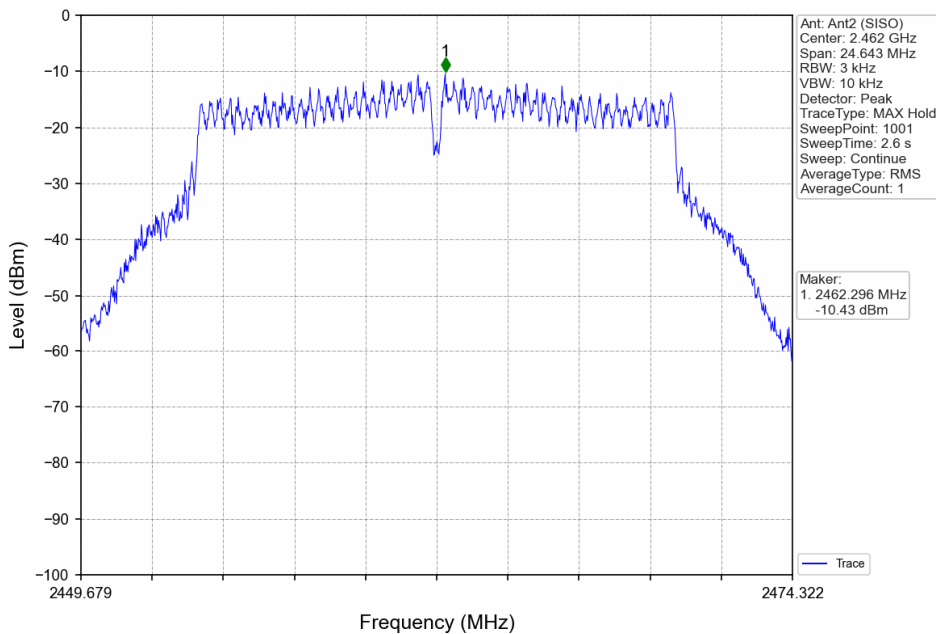
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



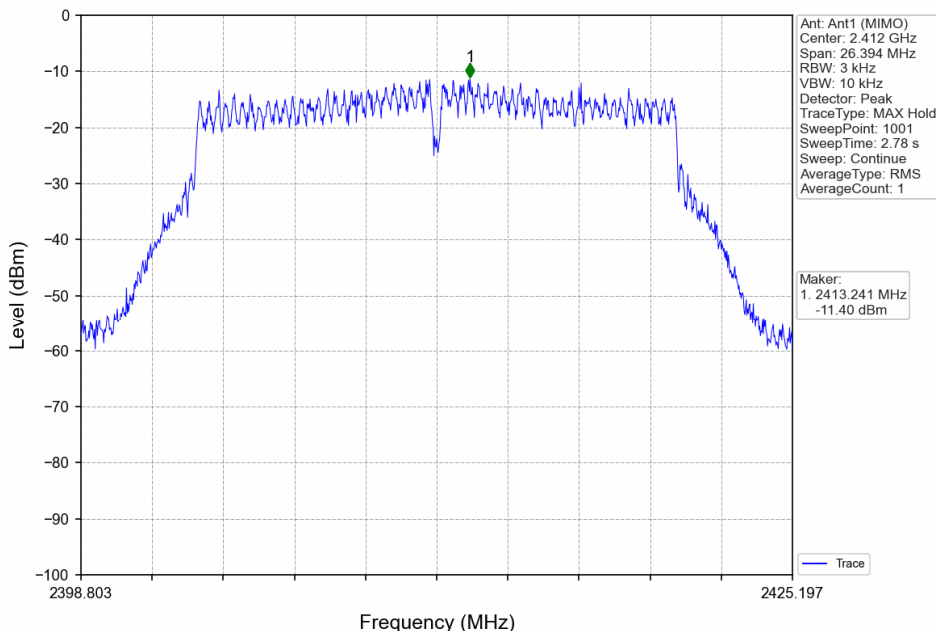
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



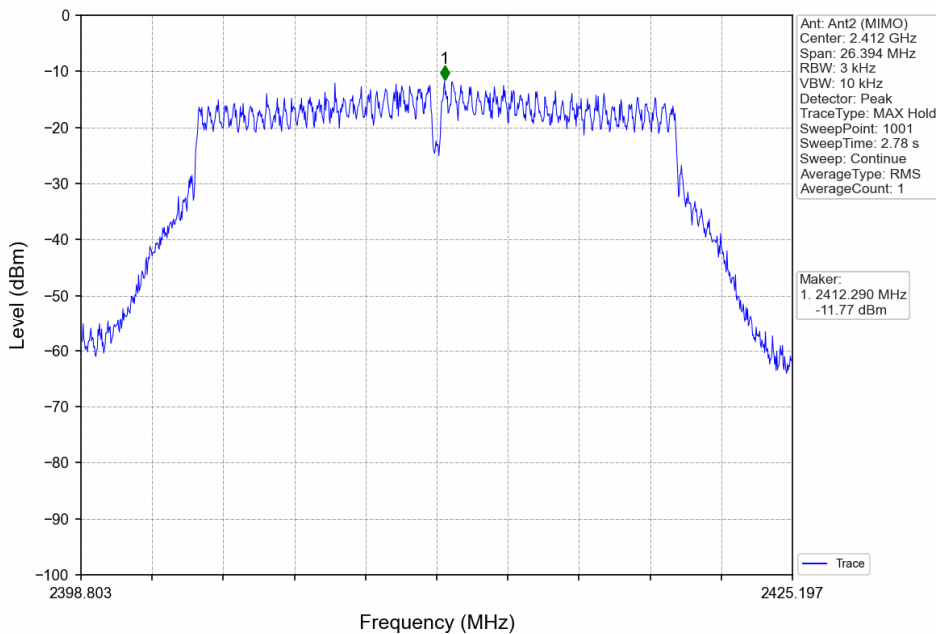
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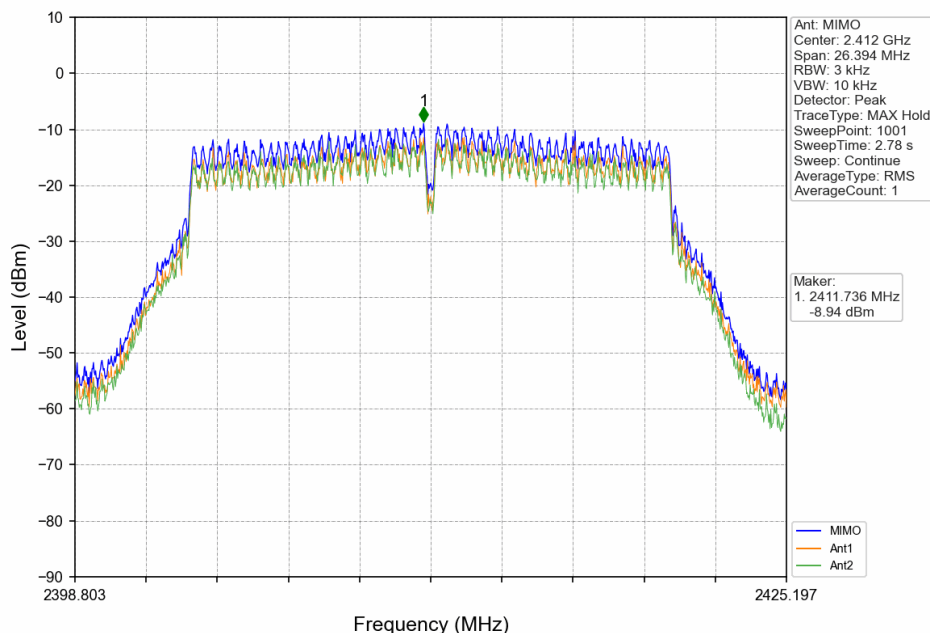
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



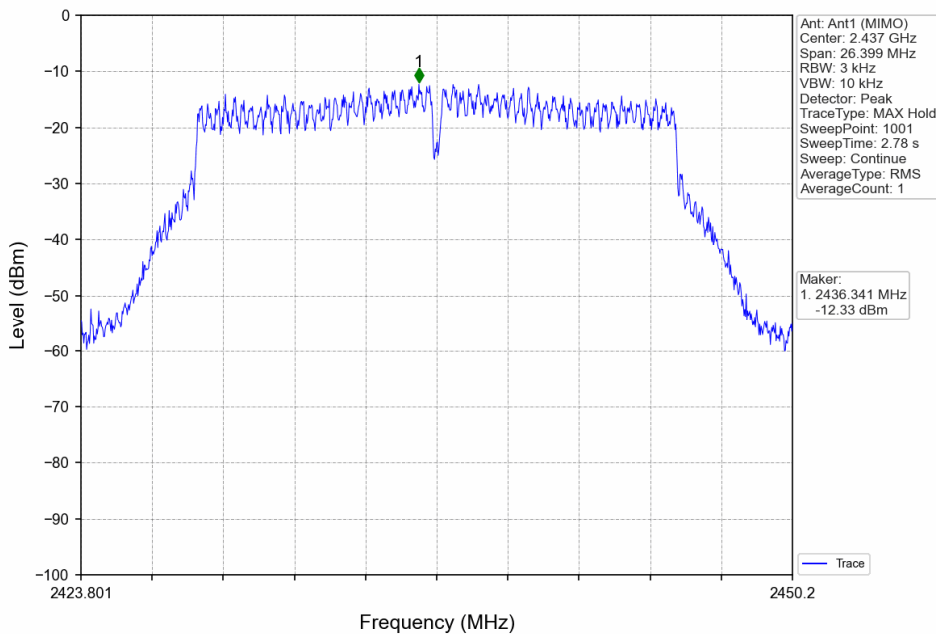
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_MIMO_NTNV

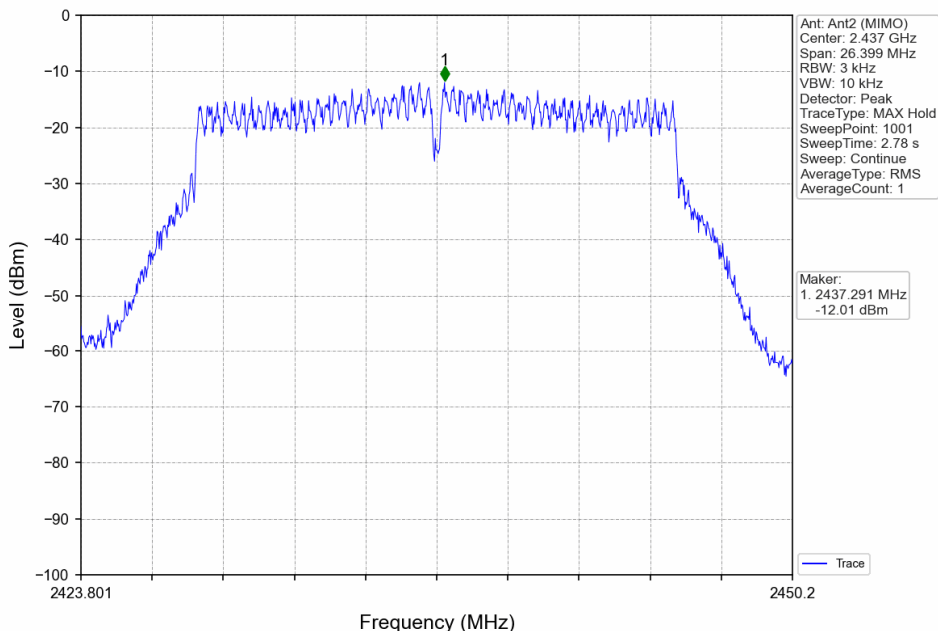


802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

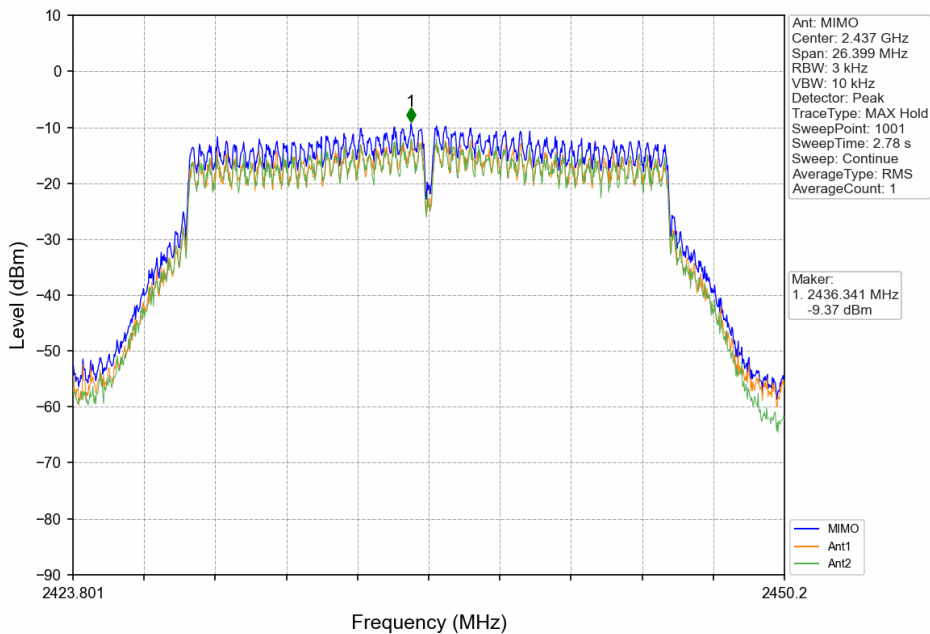


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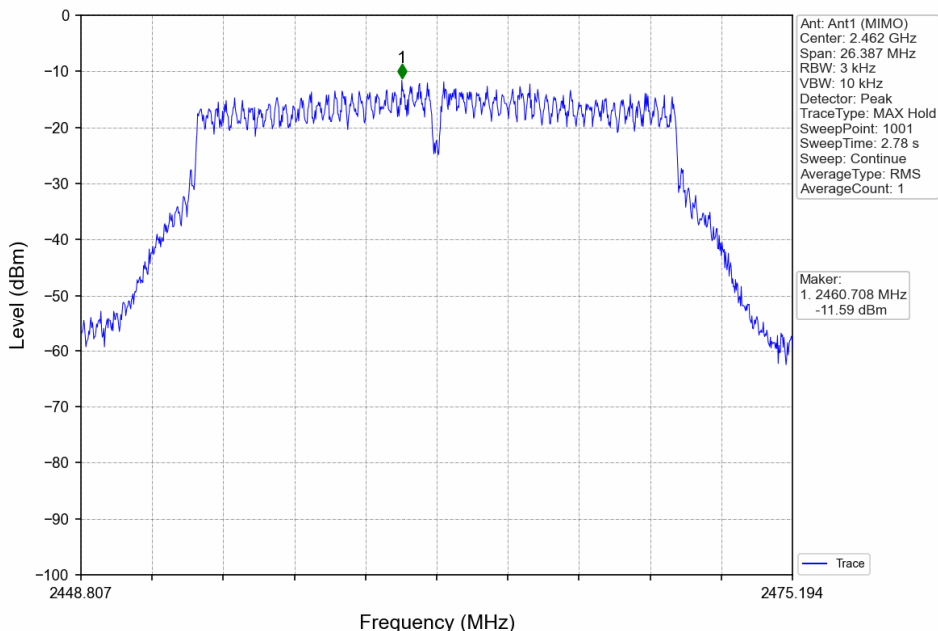
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



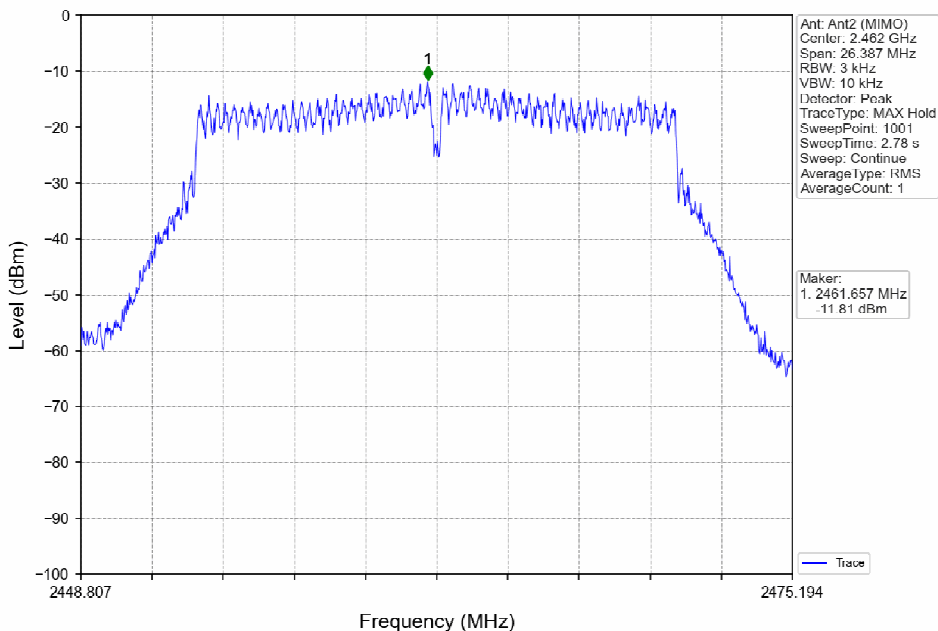
802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV

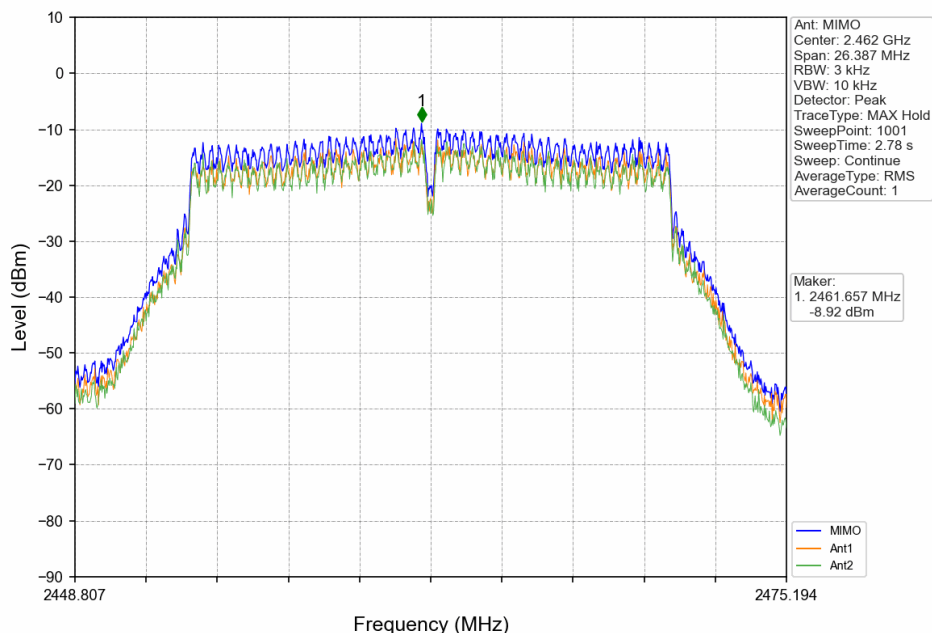


802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

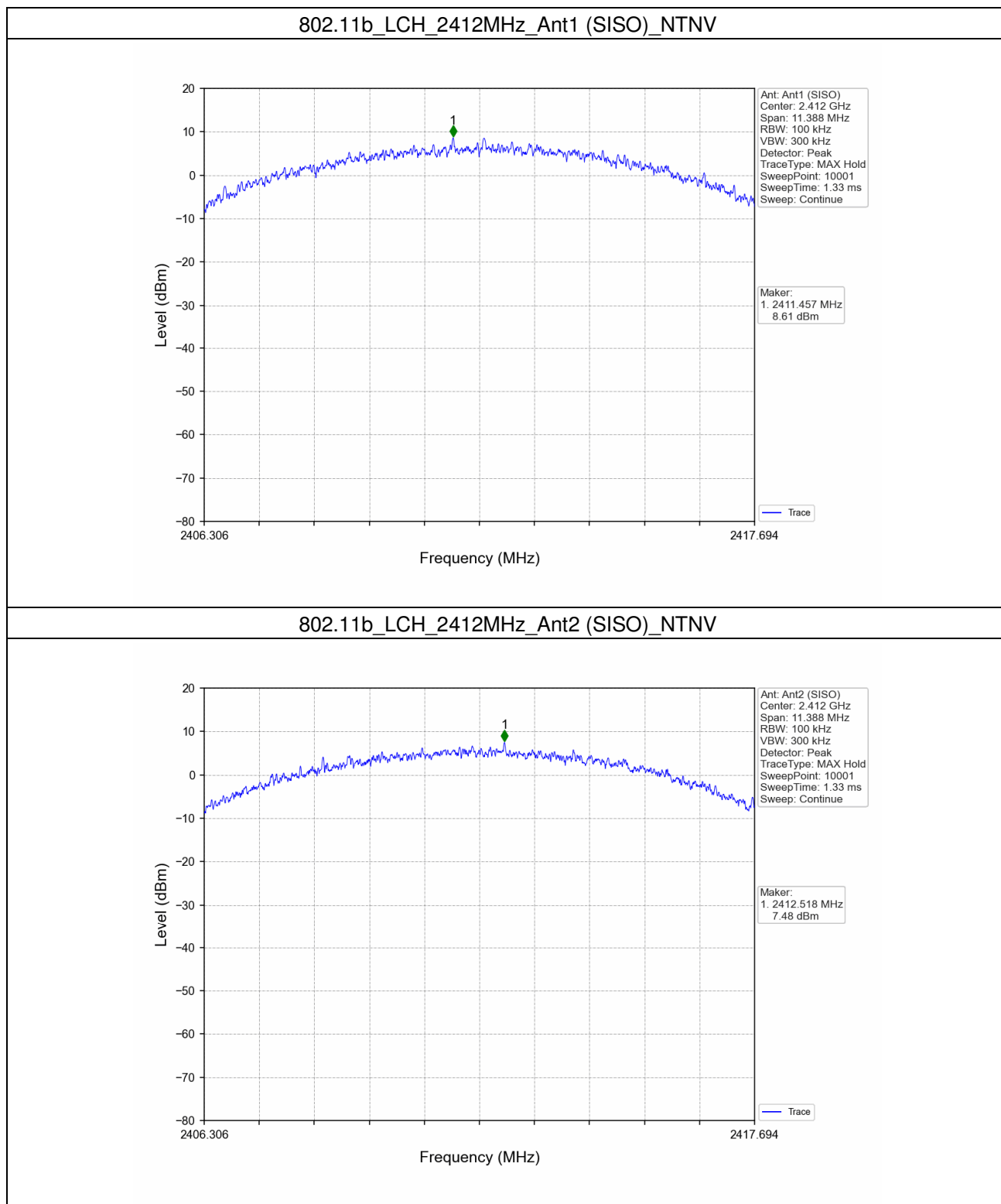
5.1 Ref

5.1.1 Test Result

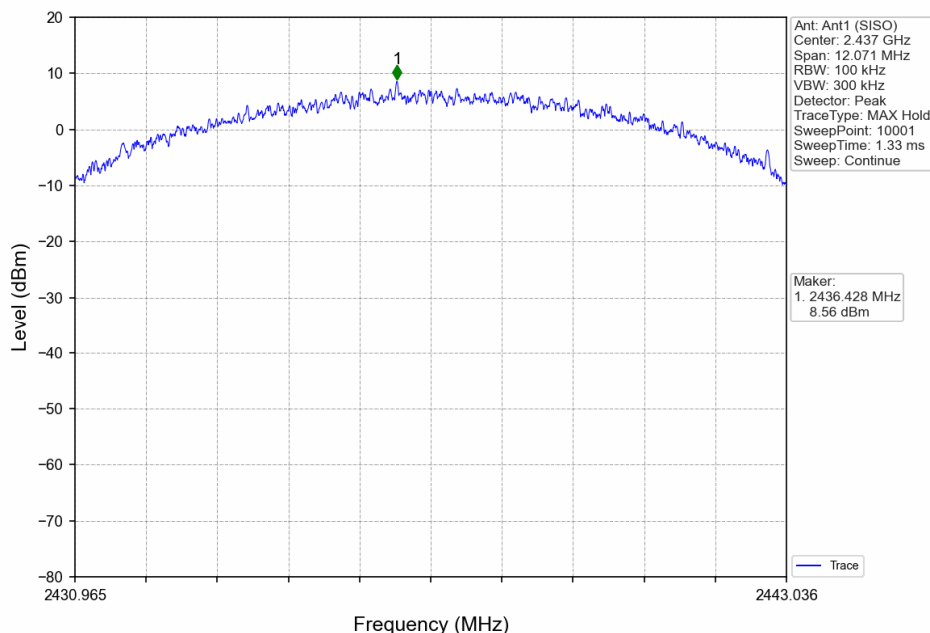
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	8.61
			2	7.48
		2437	1	8.56
			2	6.64
		2462	1	6.85
			2	6.62
802.11g	SISO	2412	1	3.06
			2	2.31
		2437	1	2.82
			2	1.90
		2462	1	2.51
			2	1.89
802.11n (HT20)	MIMO	2412	1	2.12
			2	1.34
		2437	1	0.99
			2	0.99
		2462	1	1.74
			2	1.00

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.

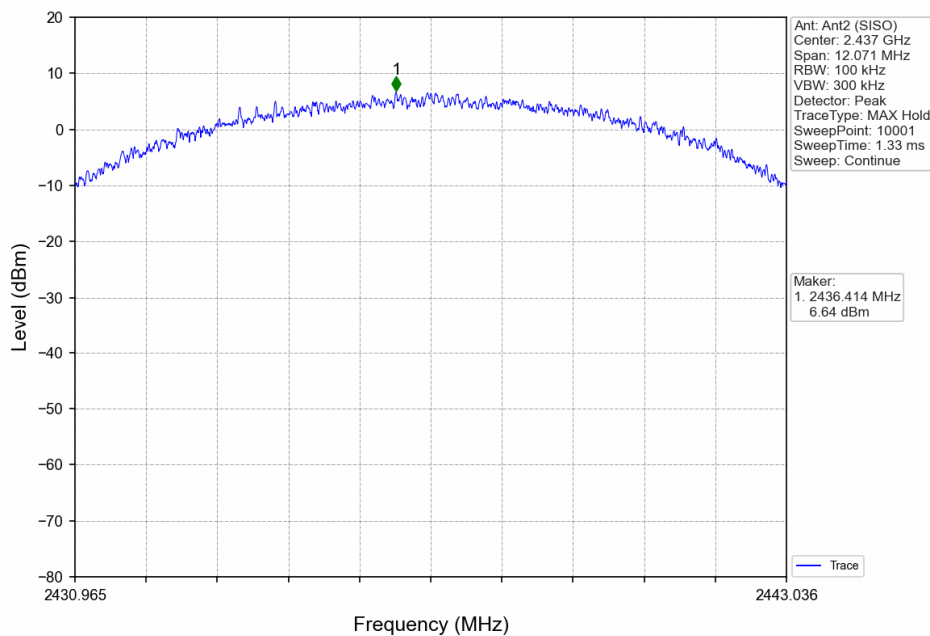
5.1.2 Test Graph



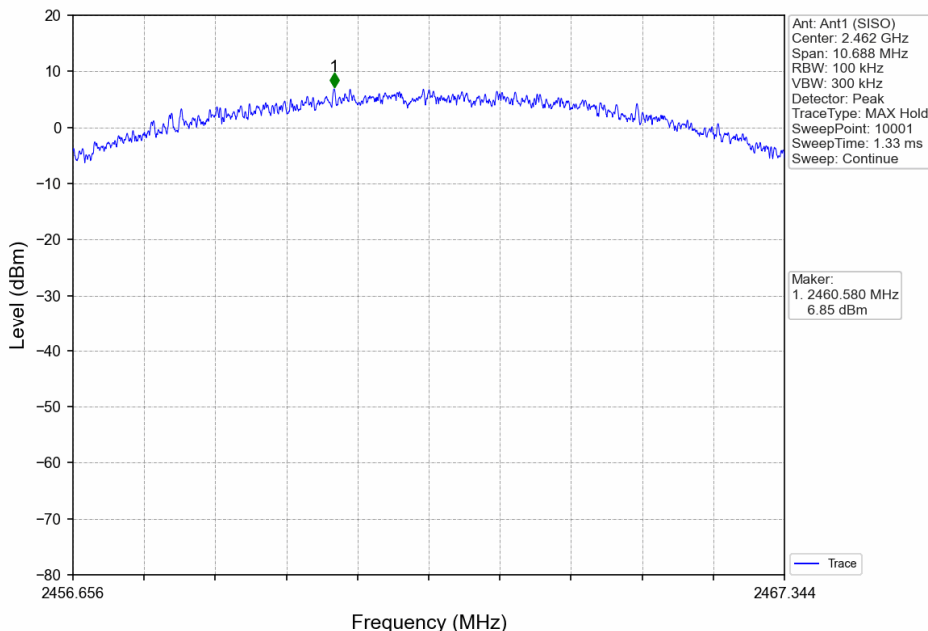
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



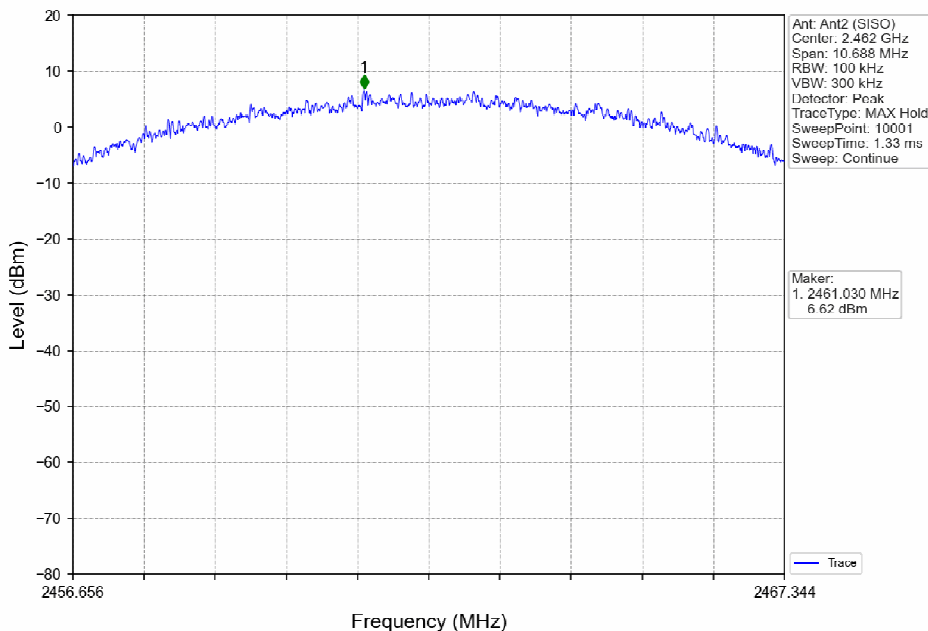
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

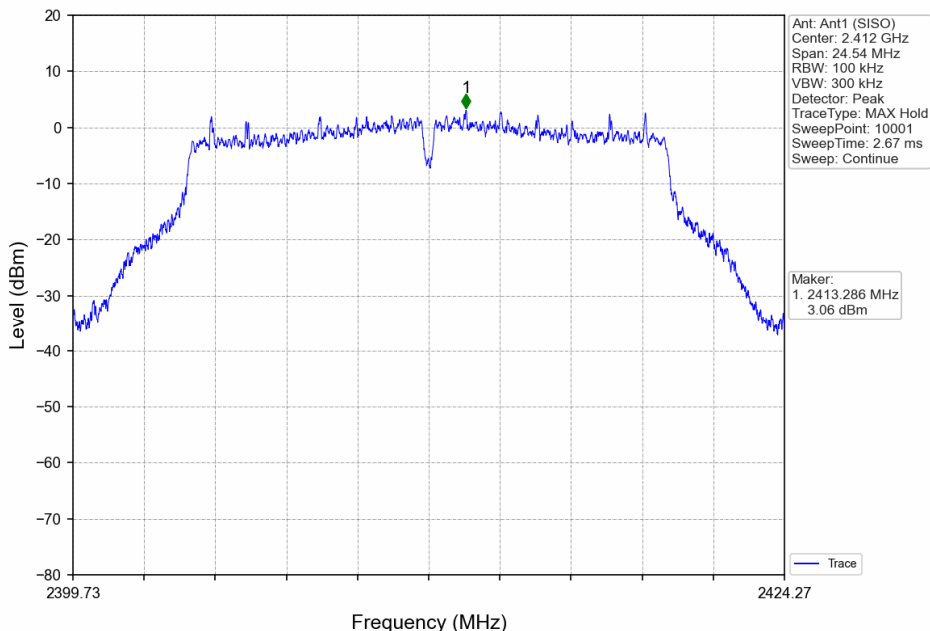


802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

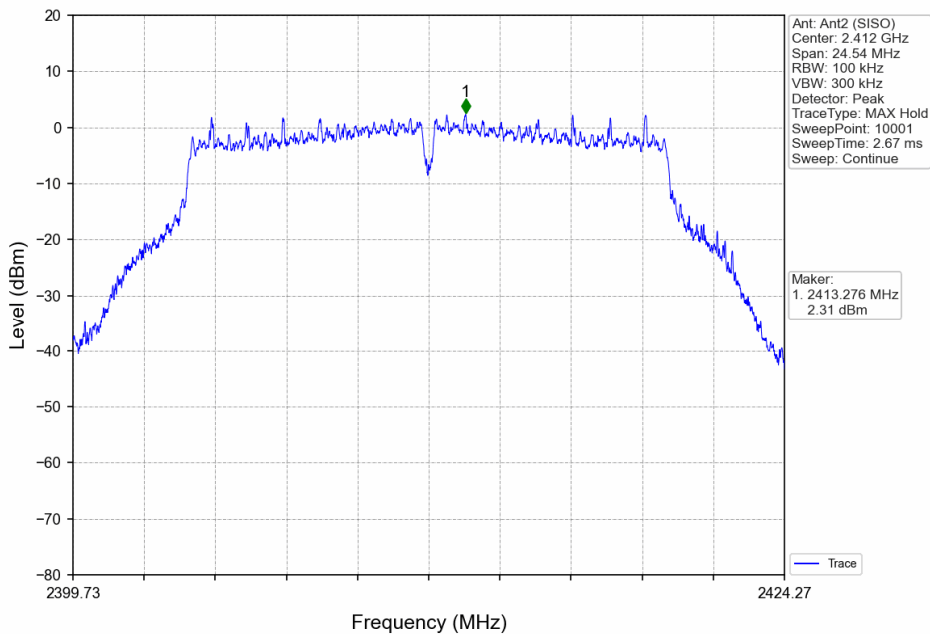


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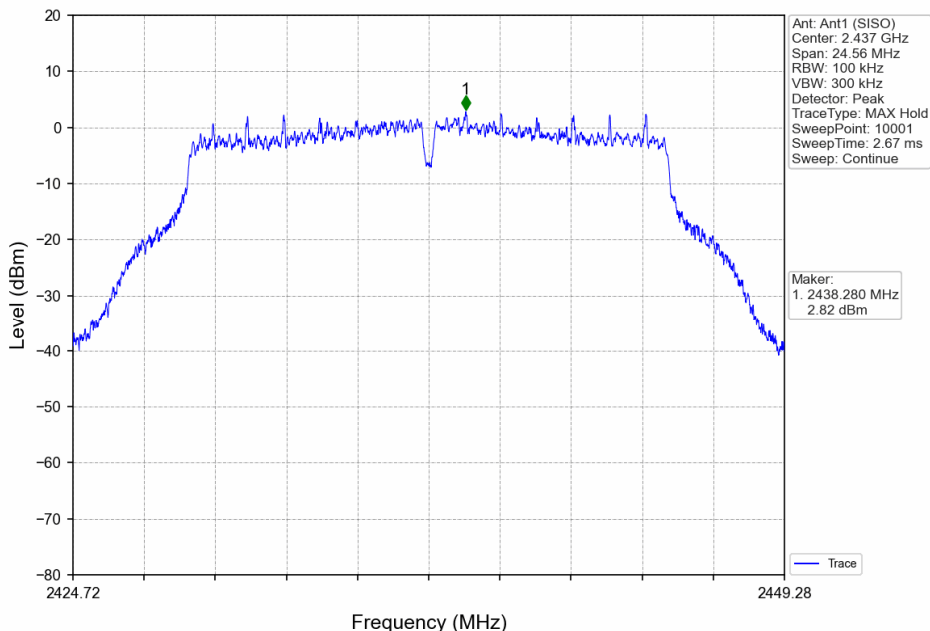
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



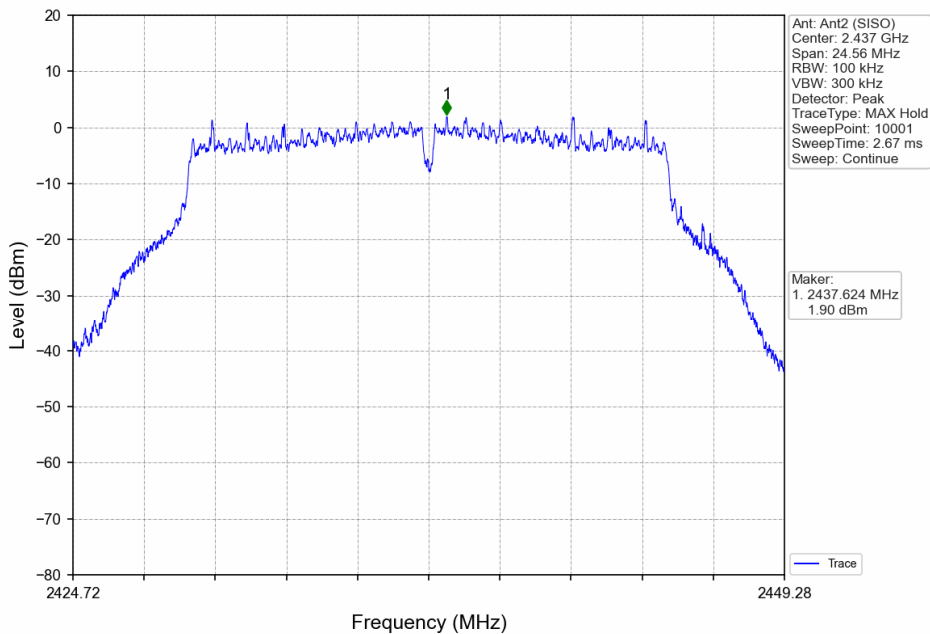
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



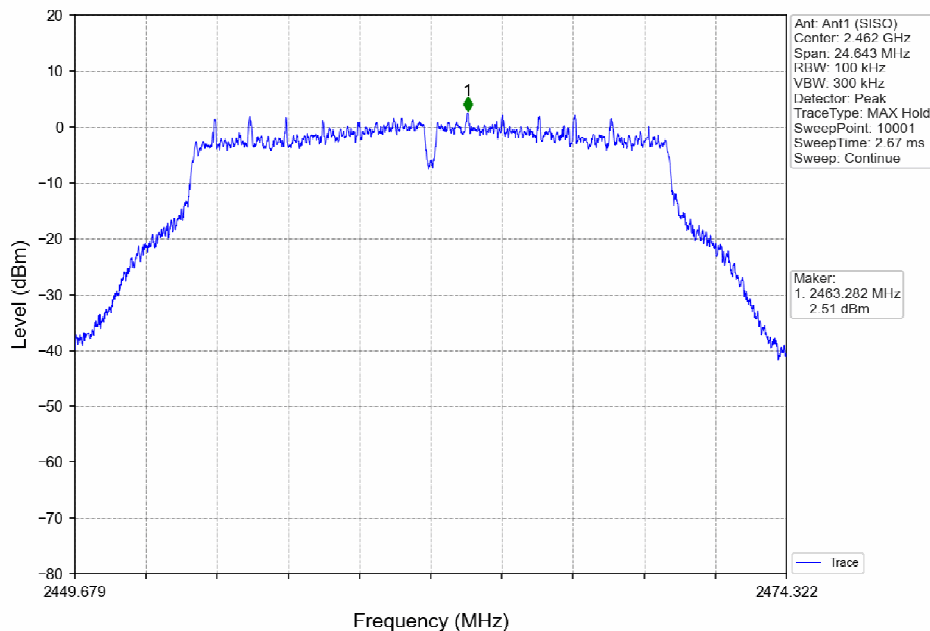
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



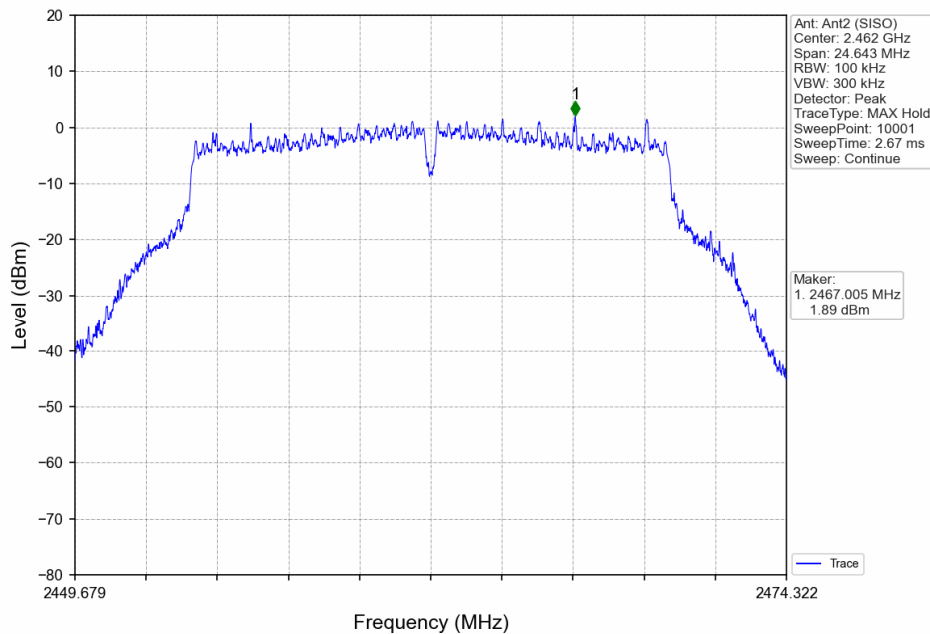
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



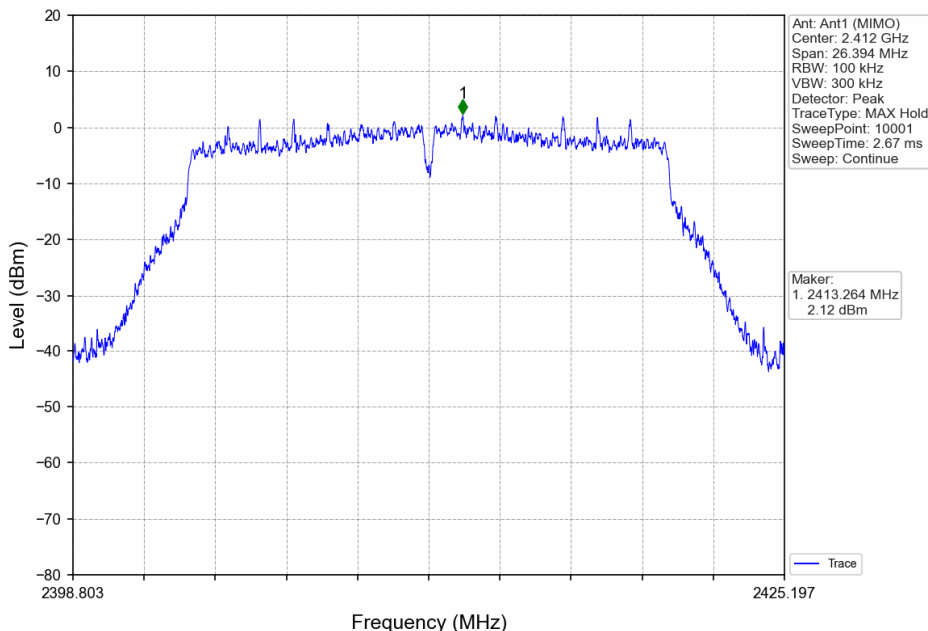
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



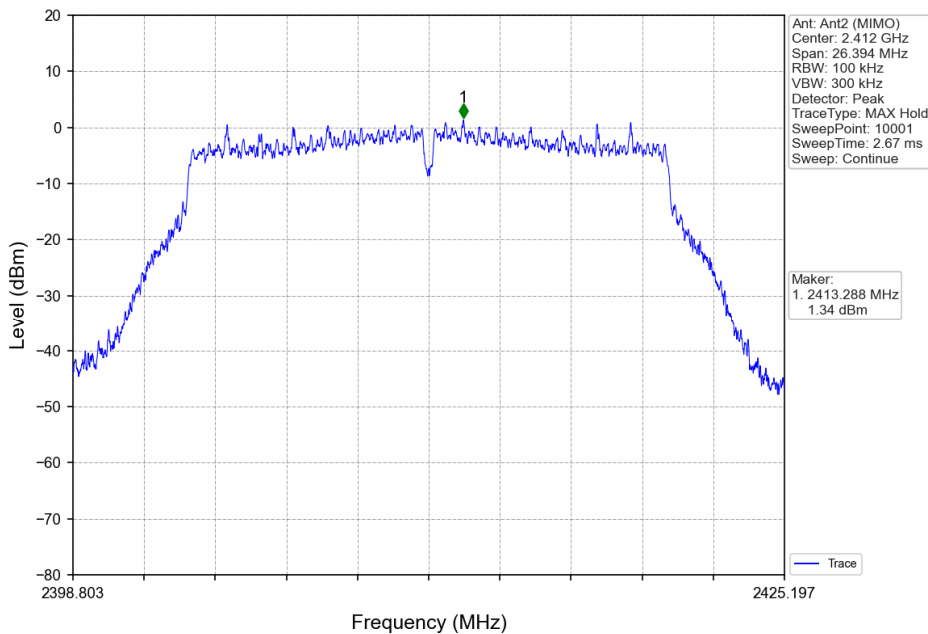
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



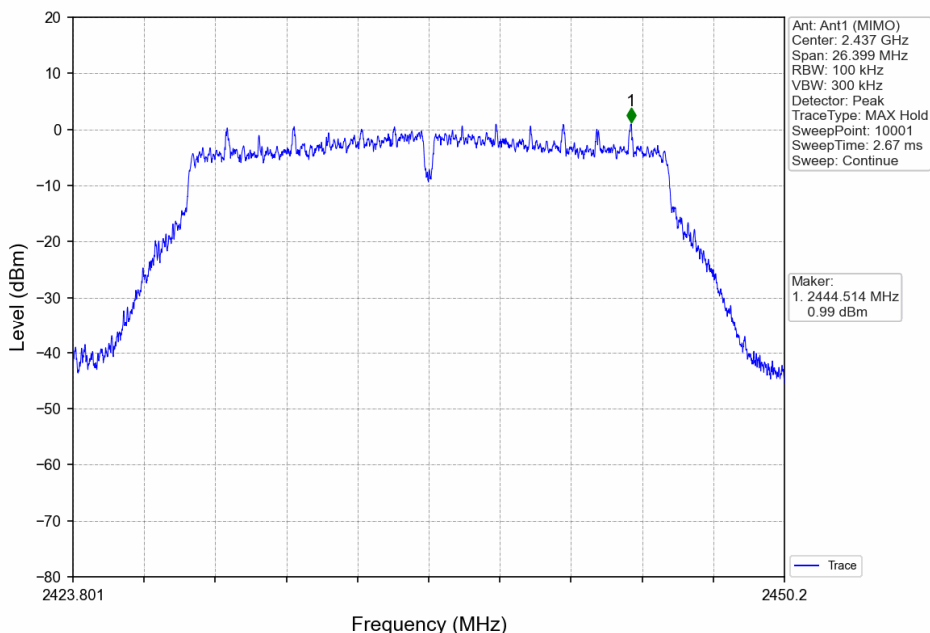
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



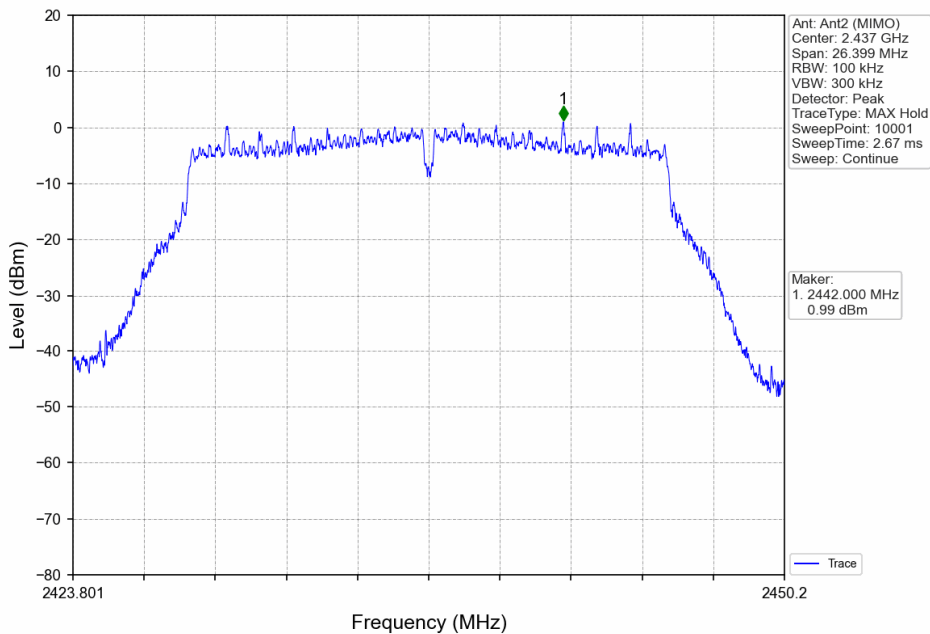
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



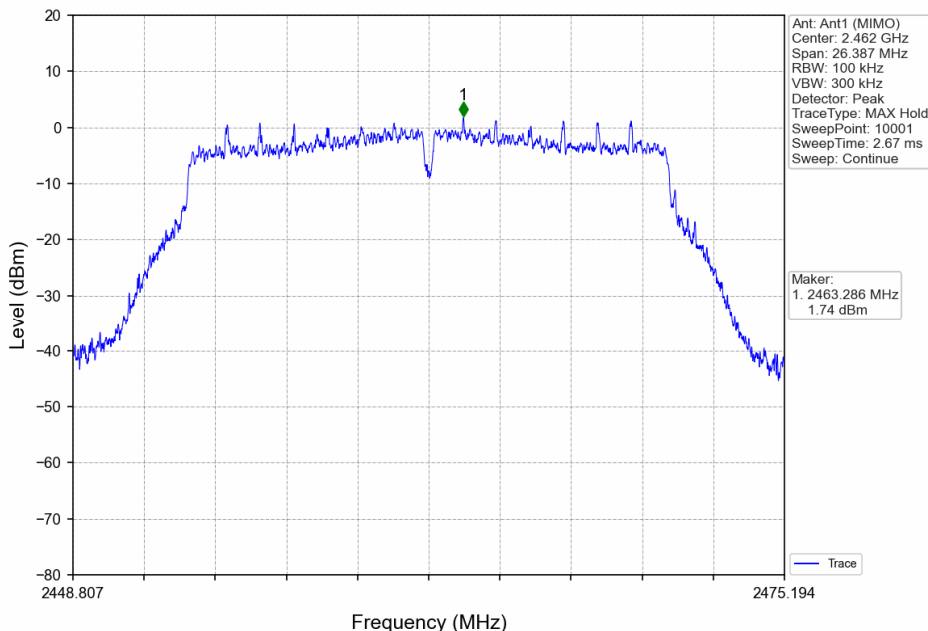
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



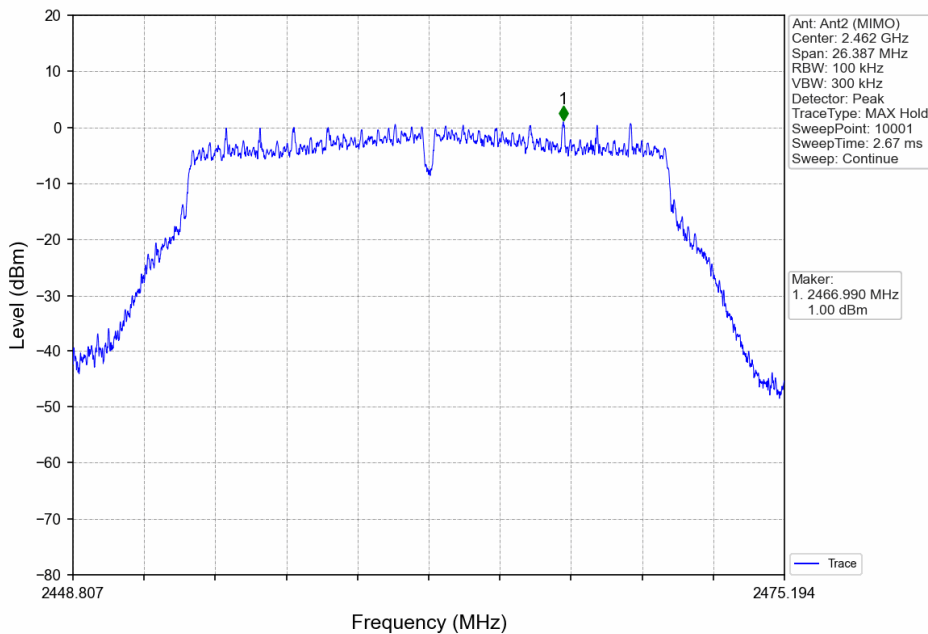
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



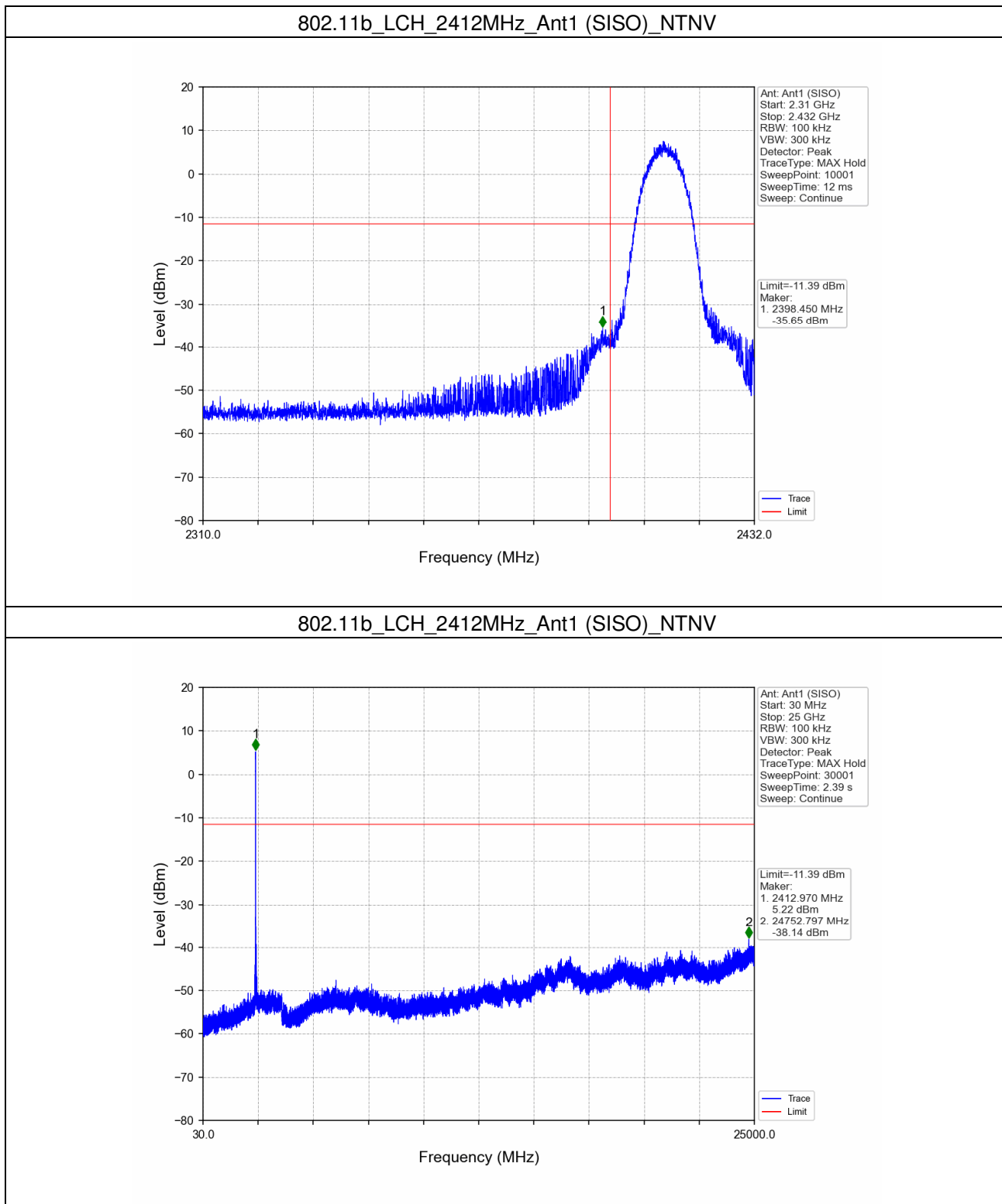
5.2 CSE

5.2.1 Test Result

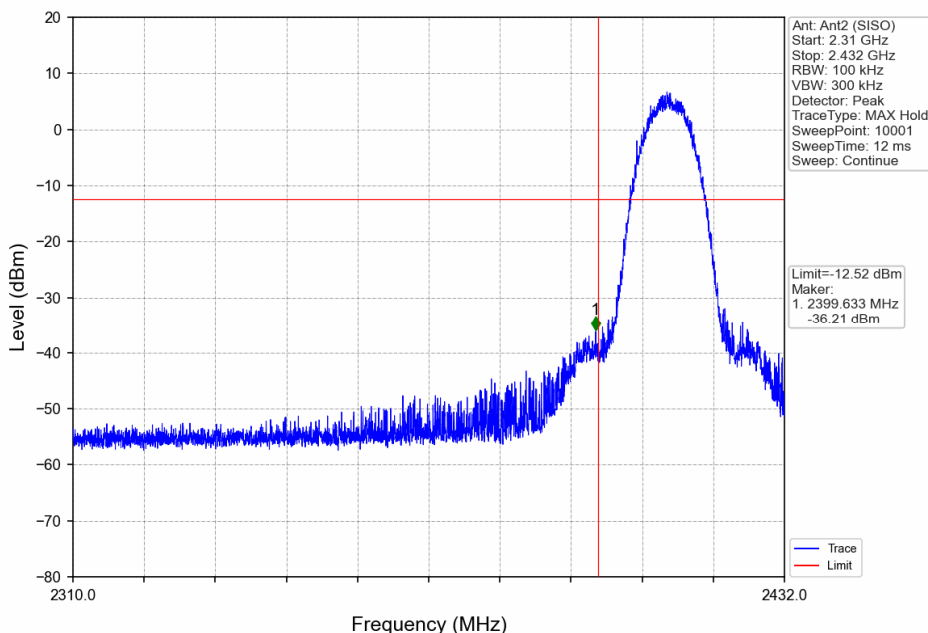
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.61	-11.39	Pass
			2	7.48	-12.52	Pass
		2437	1	8.61	-11.39	Pass
			2	7.48	-12.52	Pass
		2462	1	8.61	-11.39	Pass
			2	7.48	-12.52	Pass
802.11g	SISO	2412	1	3.06	-16.94	Pass
			2	2.31	-17.69	Pass
		2437	1	3.06	-16.94	Pass
			2	2.31	-17.69	Pass
		2462	1	3.06	-16.94	Pass
			2	2.31	-17.69	Pass
802.11n (HT20)	MIMO	2412	1	2.12	-17.88	Pass
			2	1.34	-18.66	Pass
		2437	1	2.12	-17.88	Pass
			2	1.34	-18.66	Pass
		2462	1	2.12	-17.88	Pass
			2	1.34	-18.66	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.

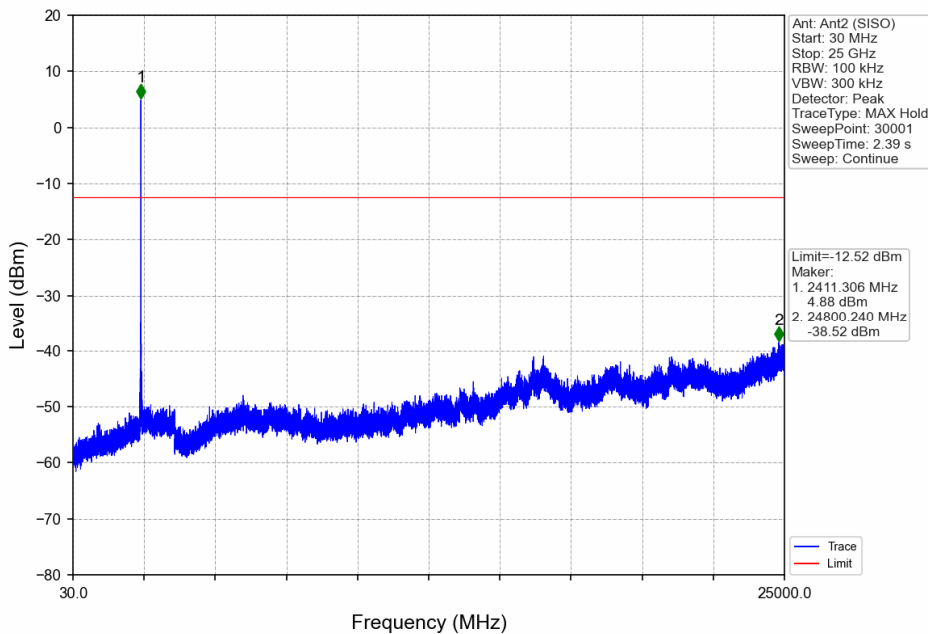
5.2.2 Test Graph



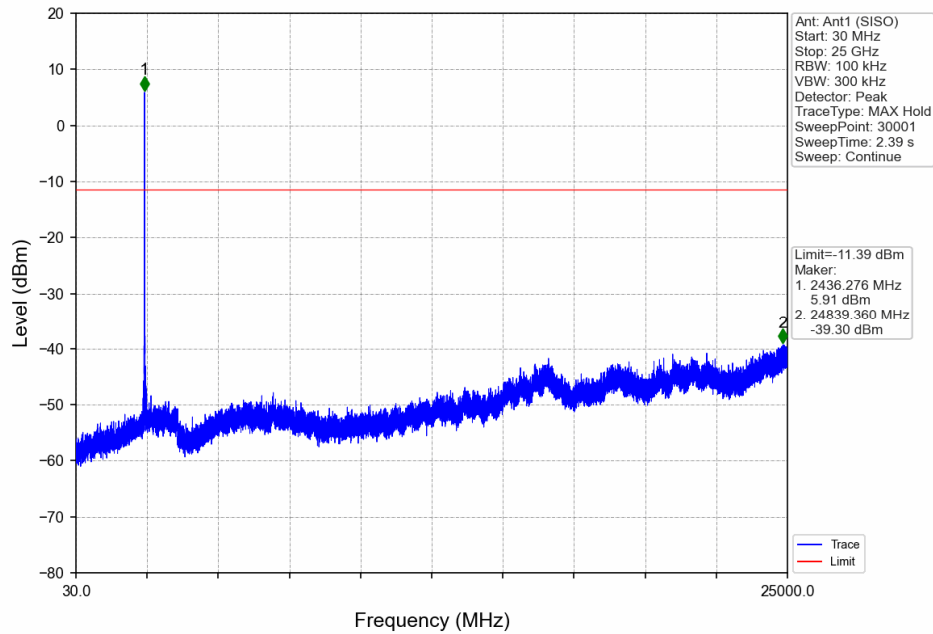
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



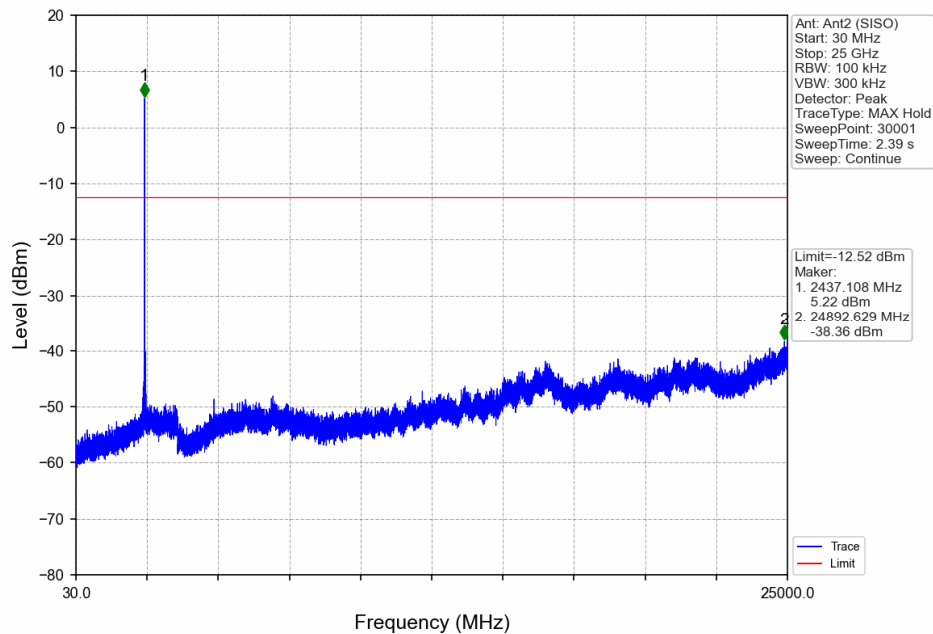
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



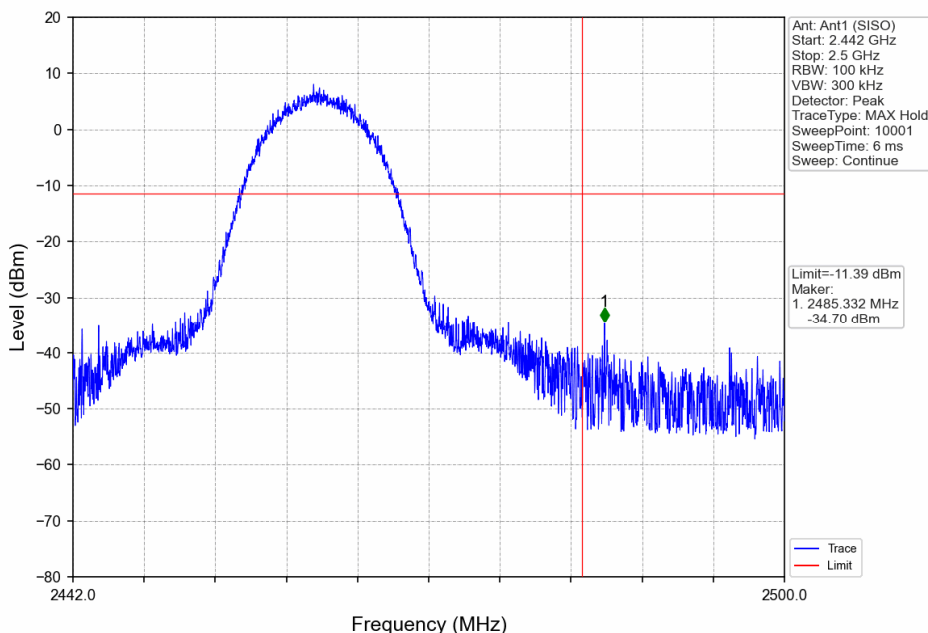
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



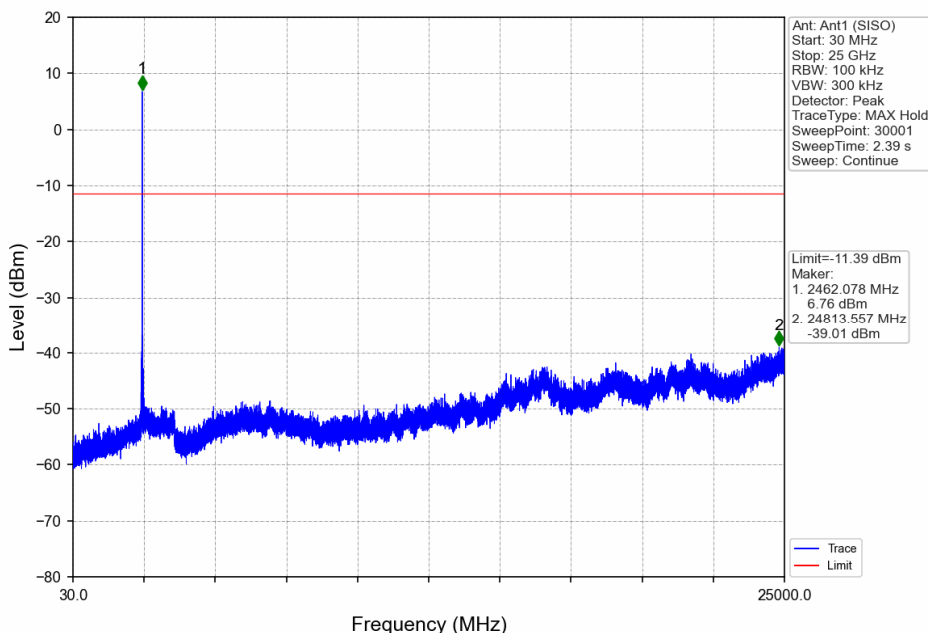
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



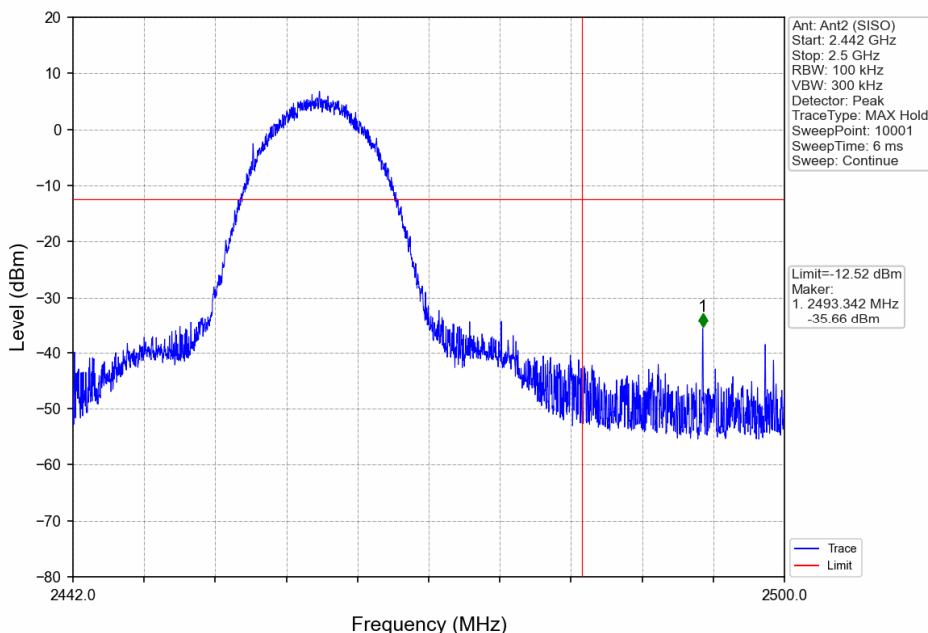
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



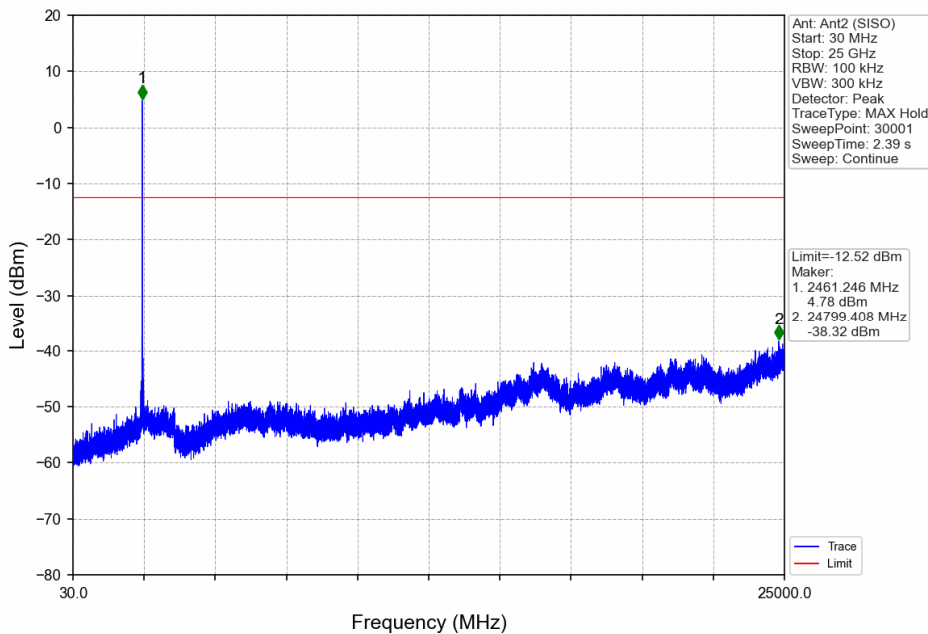
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

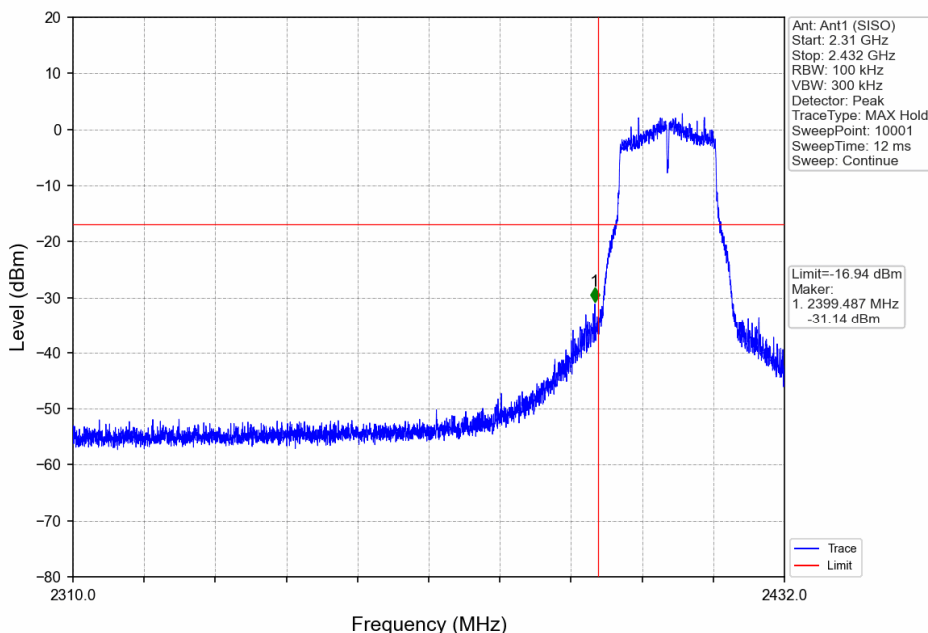


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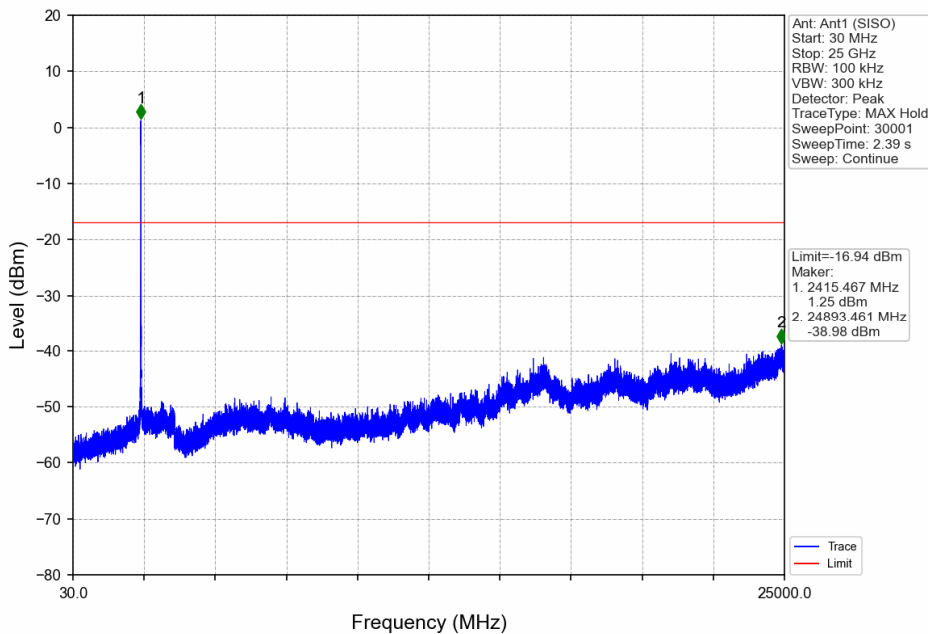


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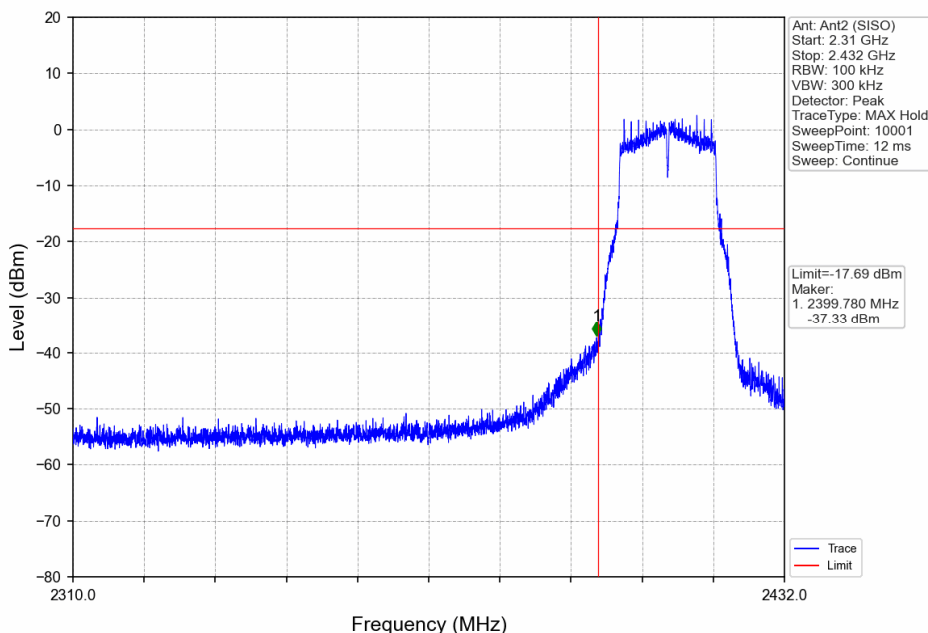
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



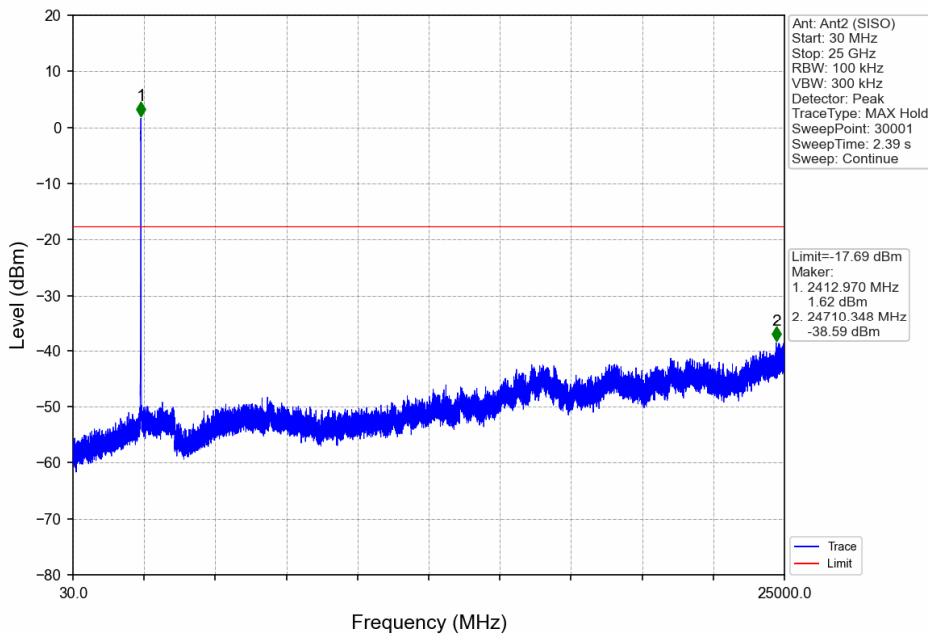
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



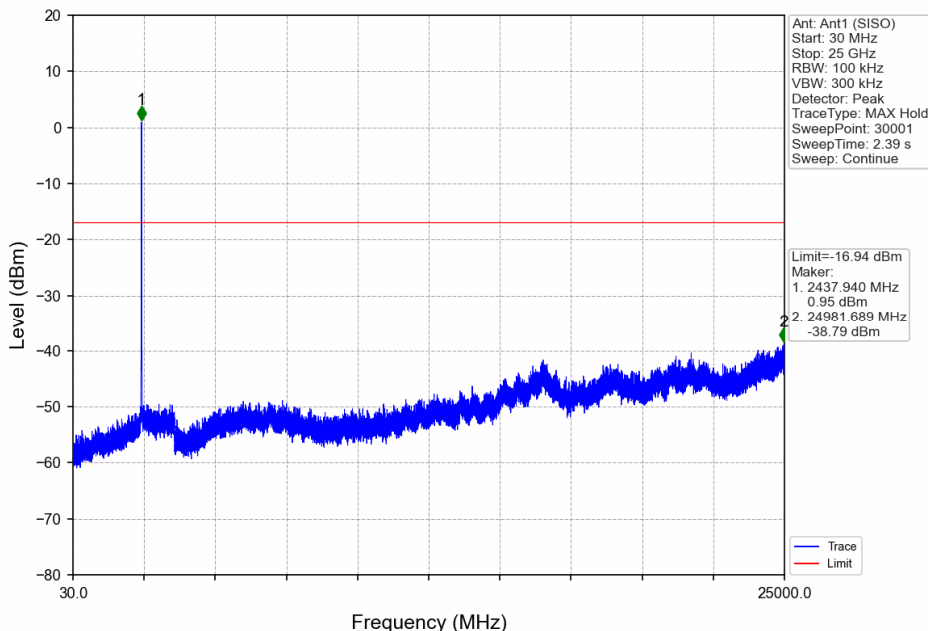
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



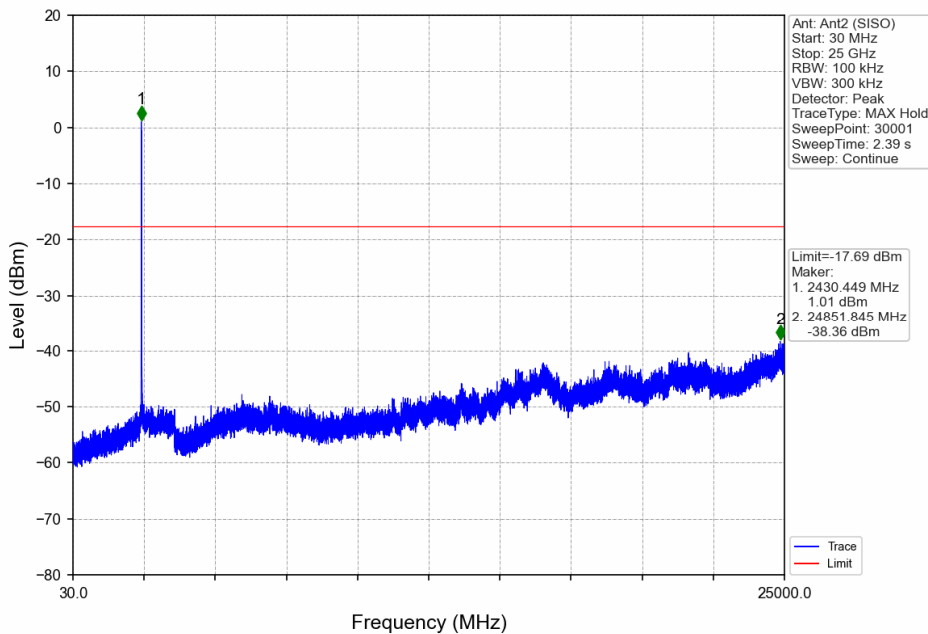
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



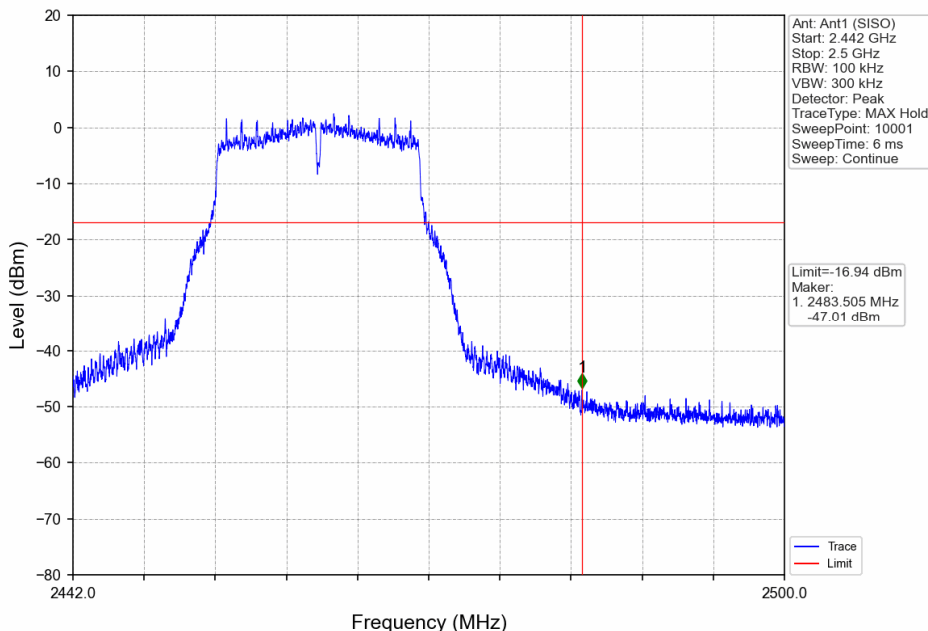
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



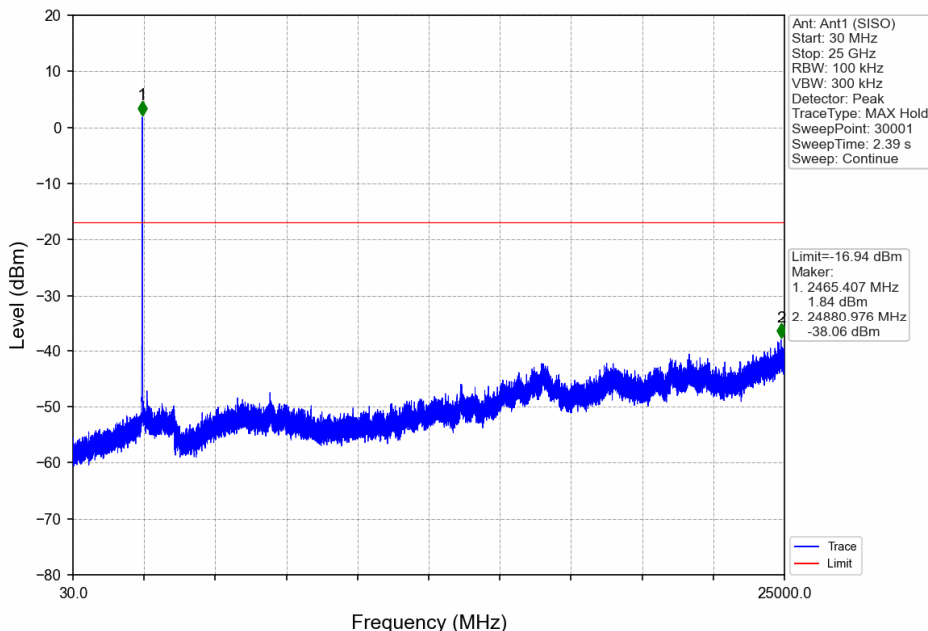
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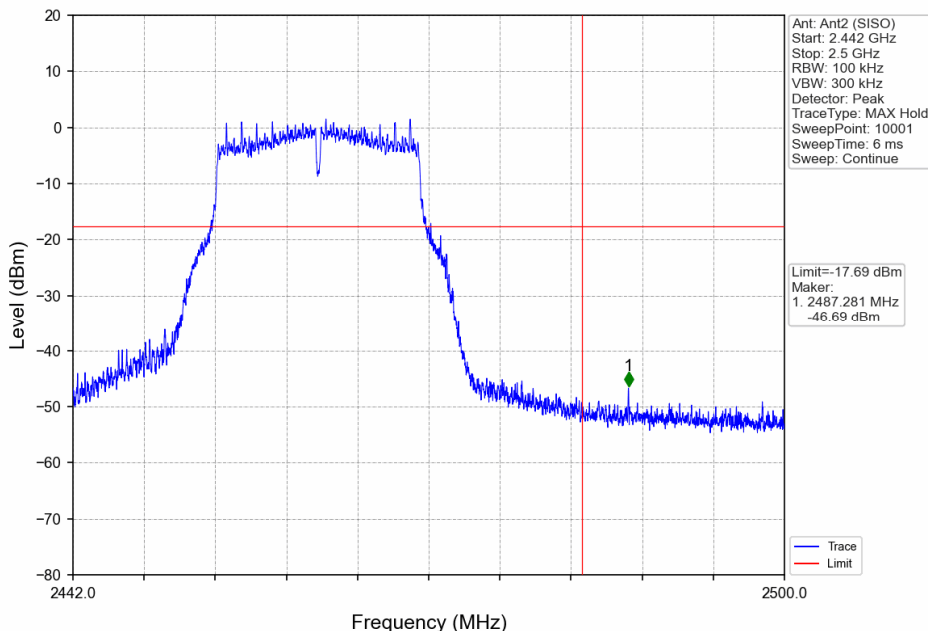
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



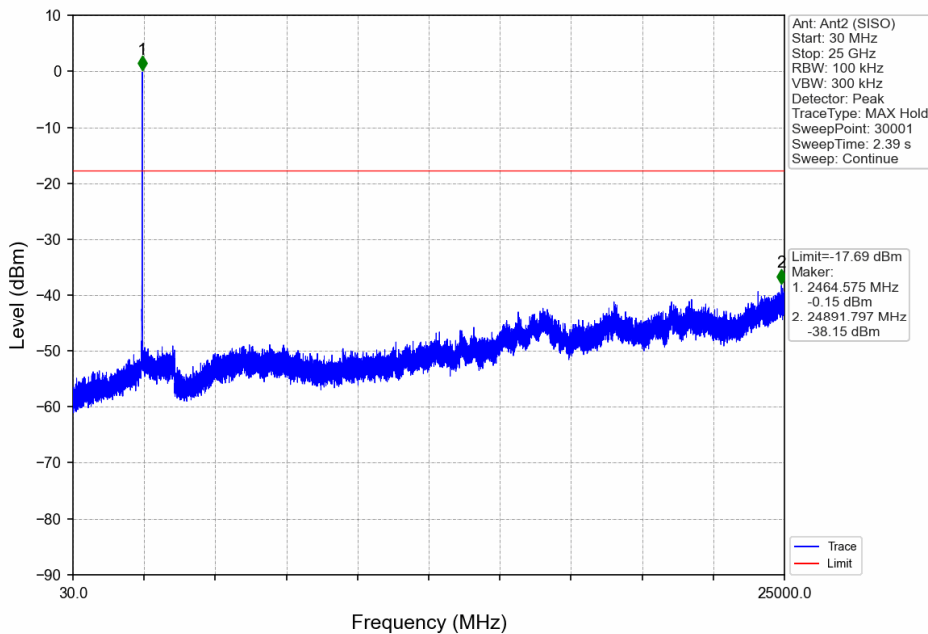
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



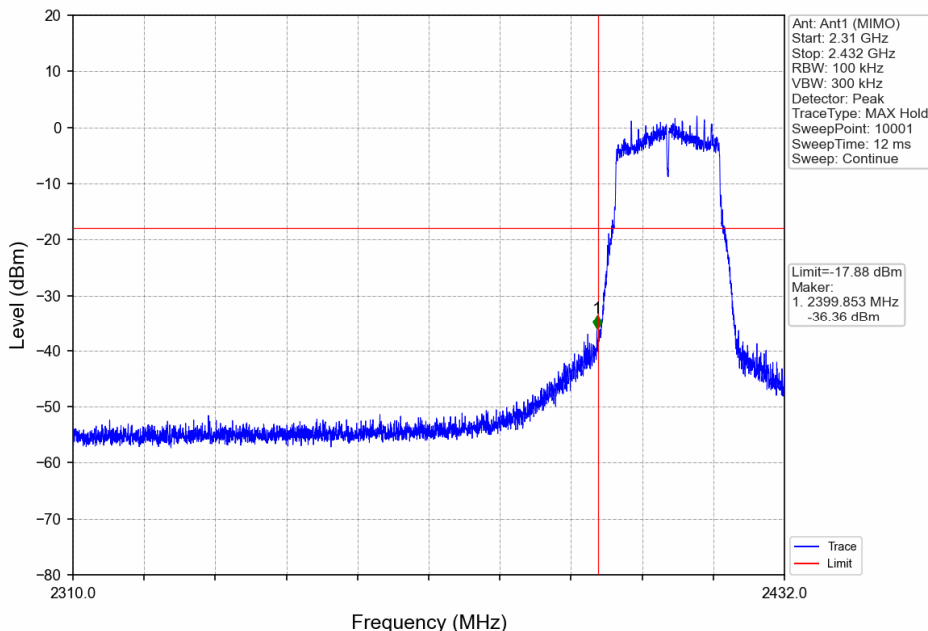
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



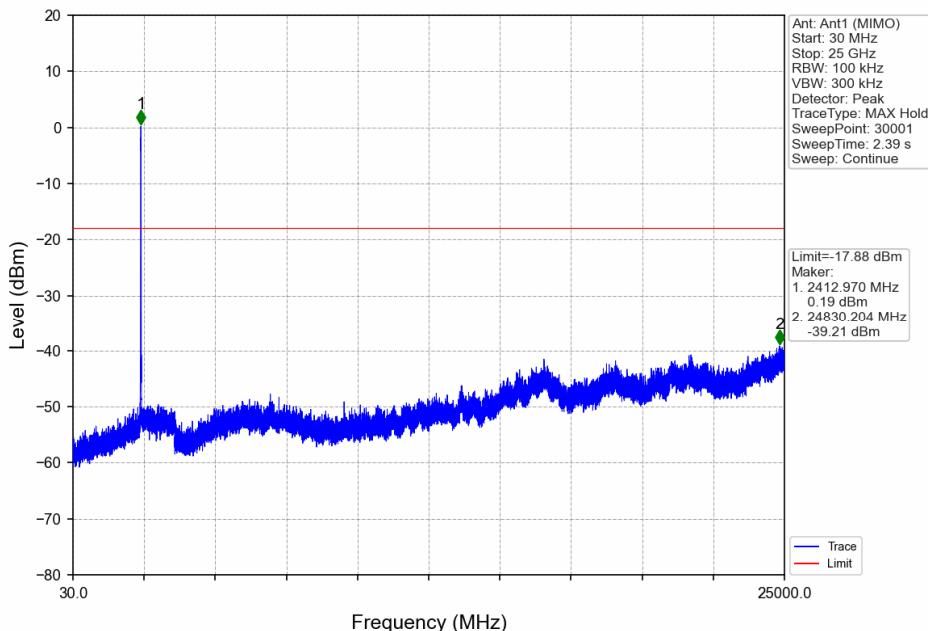
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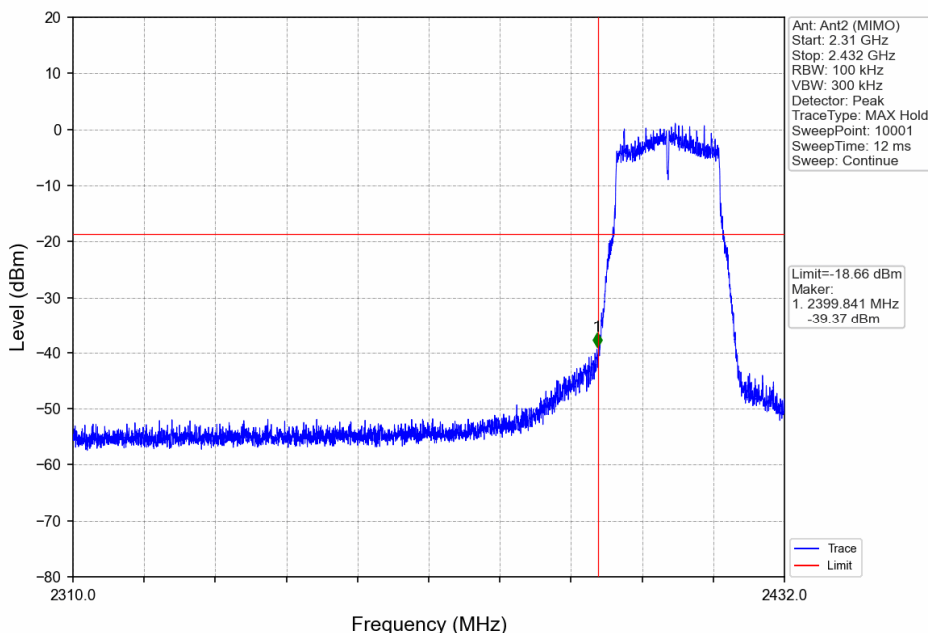
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



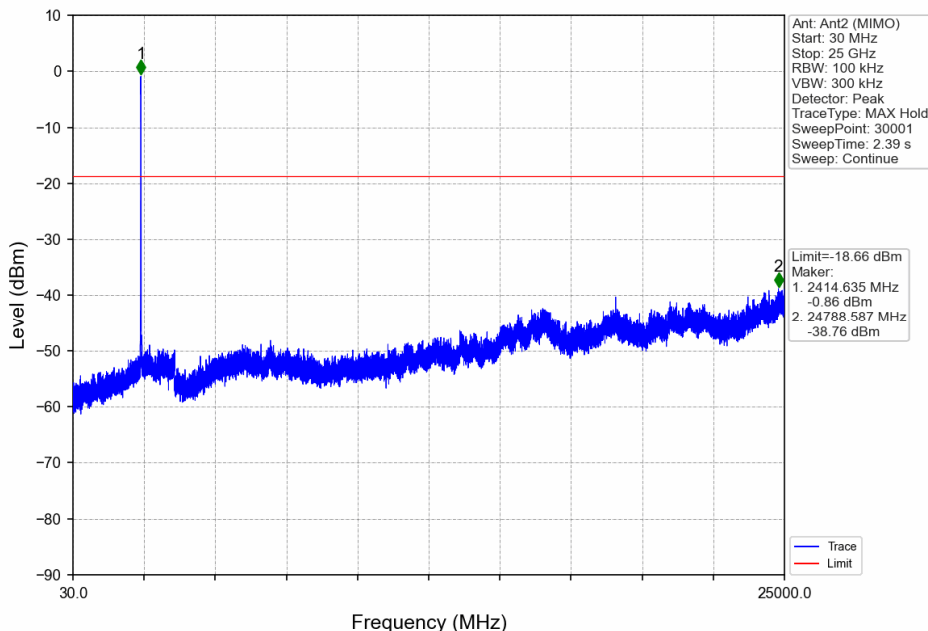
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV

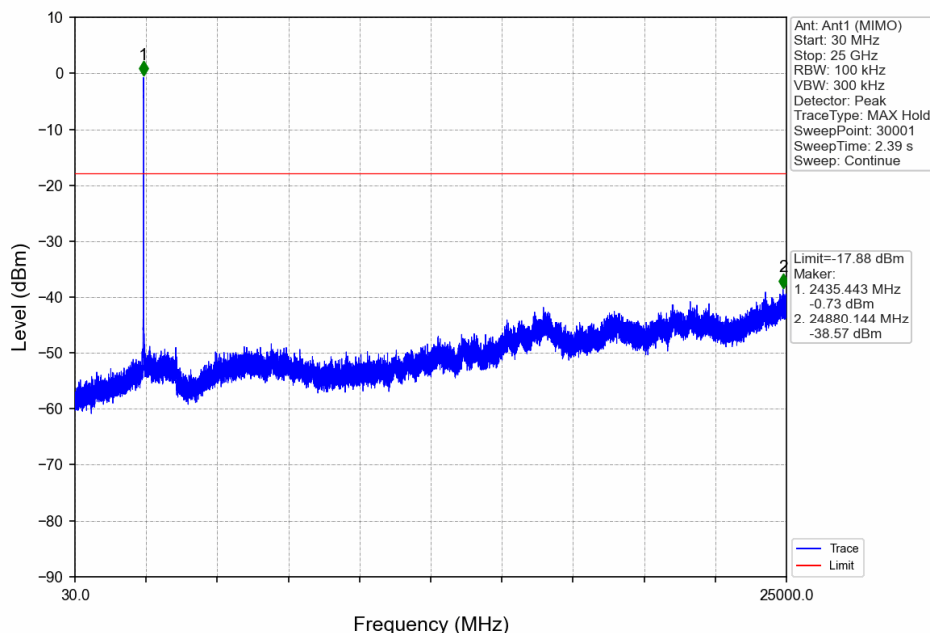


802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV

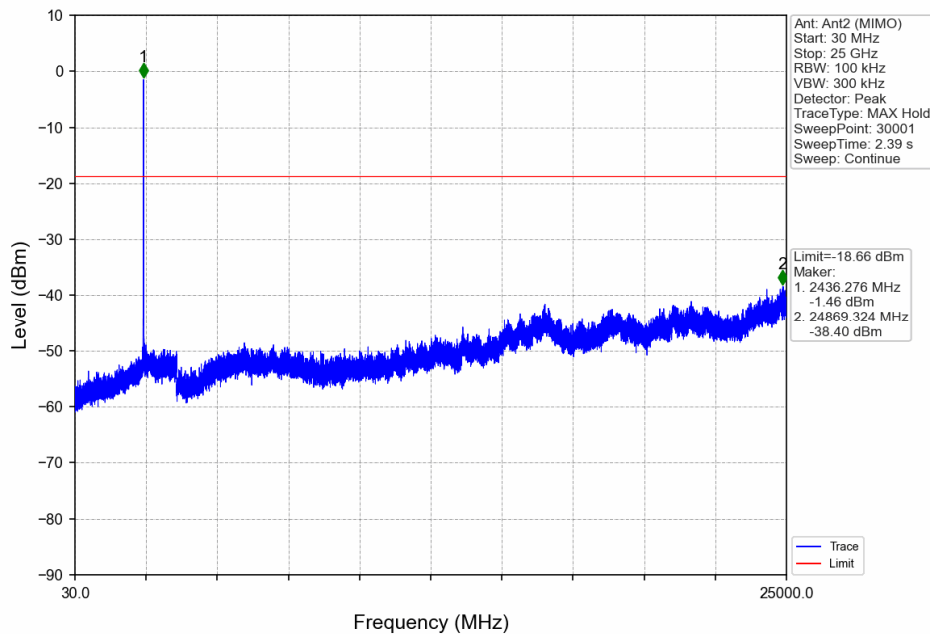


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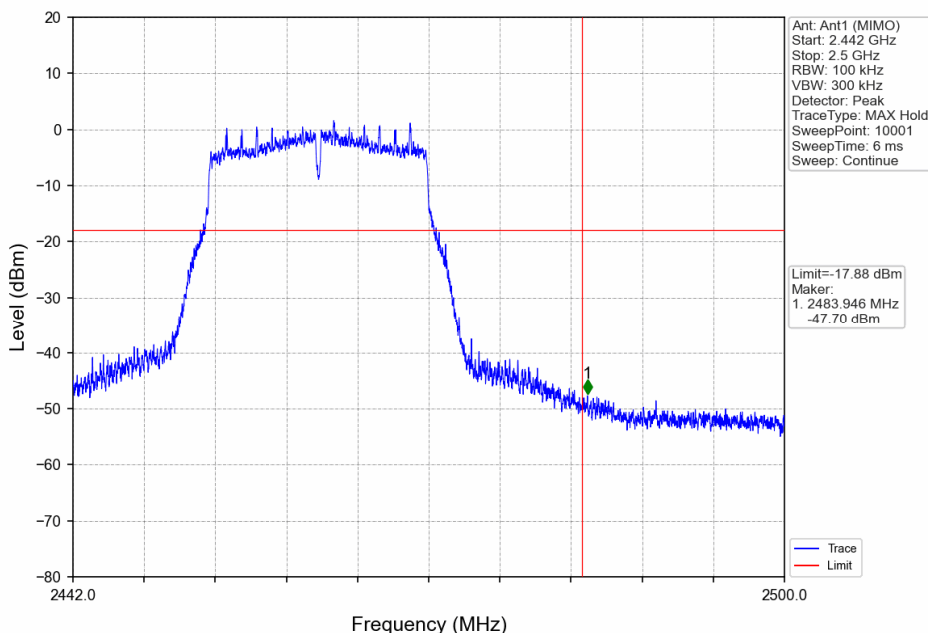
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



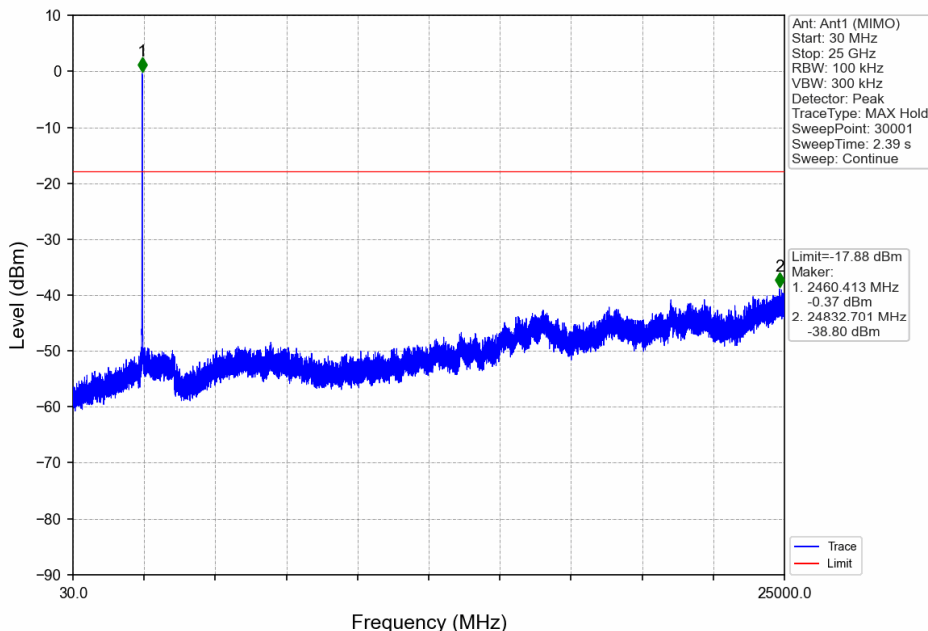
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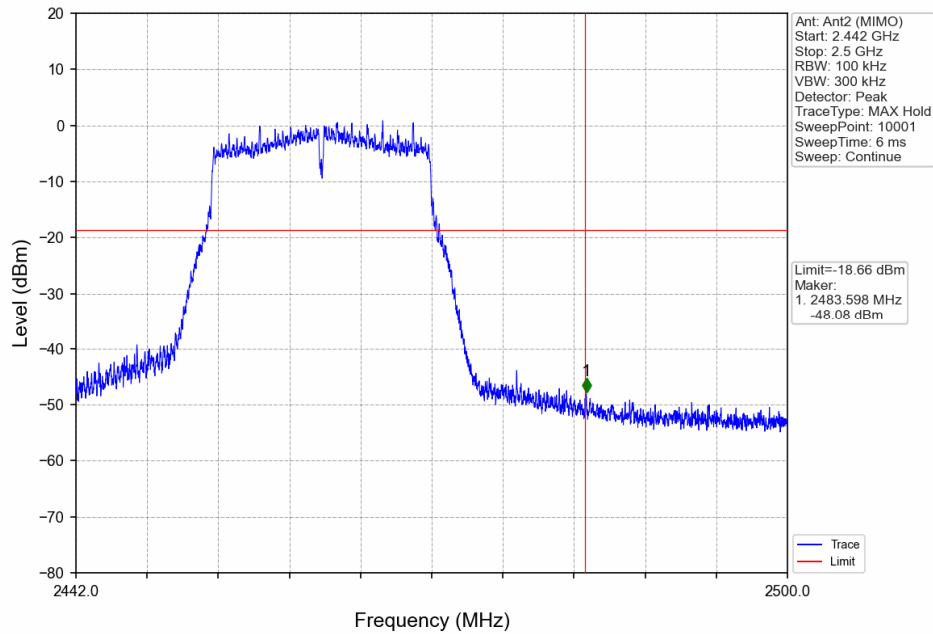
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



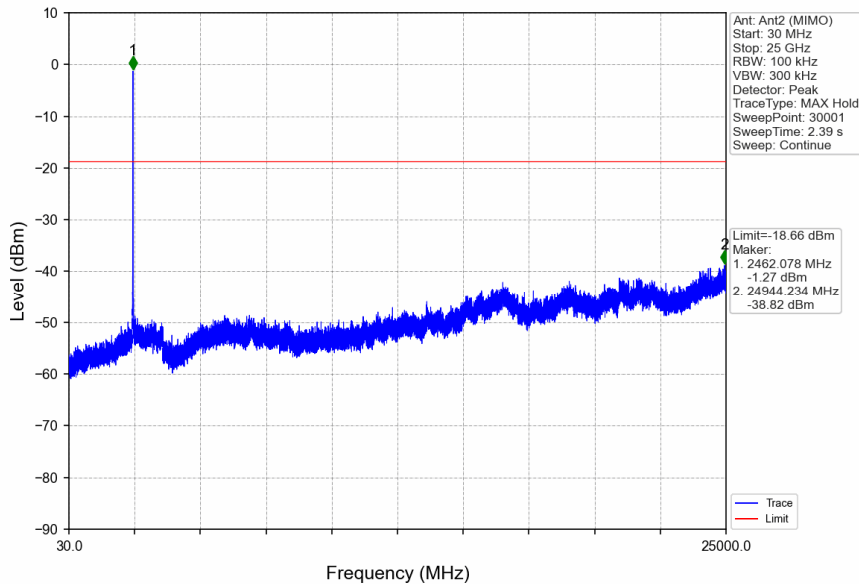
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



- End of the Report -



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