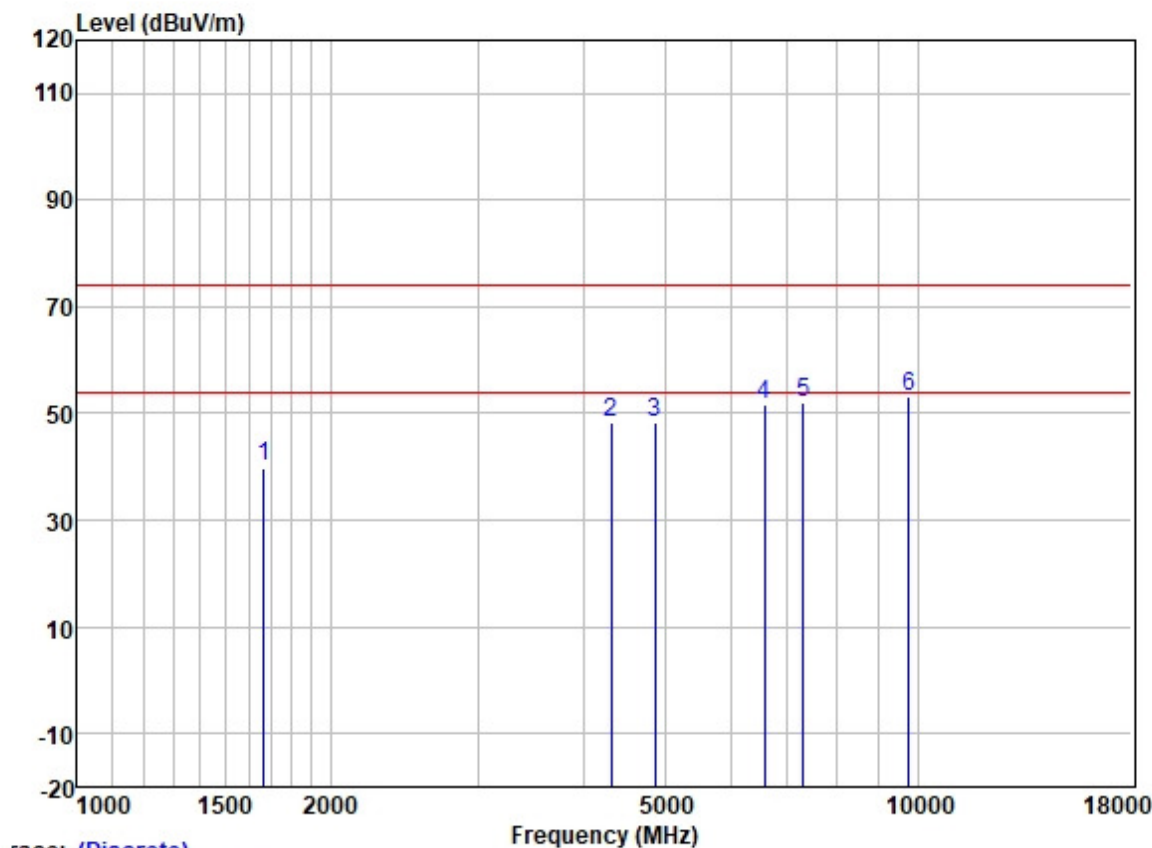


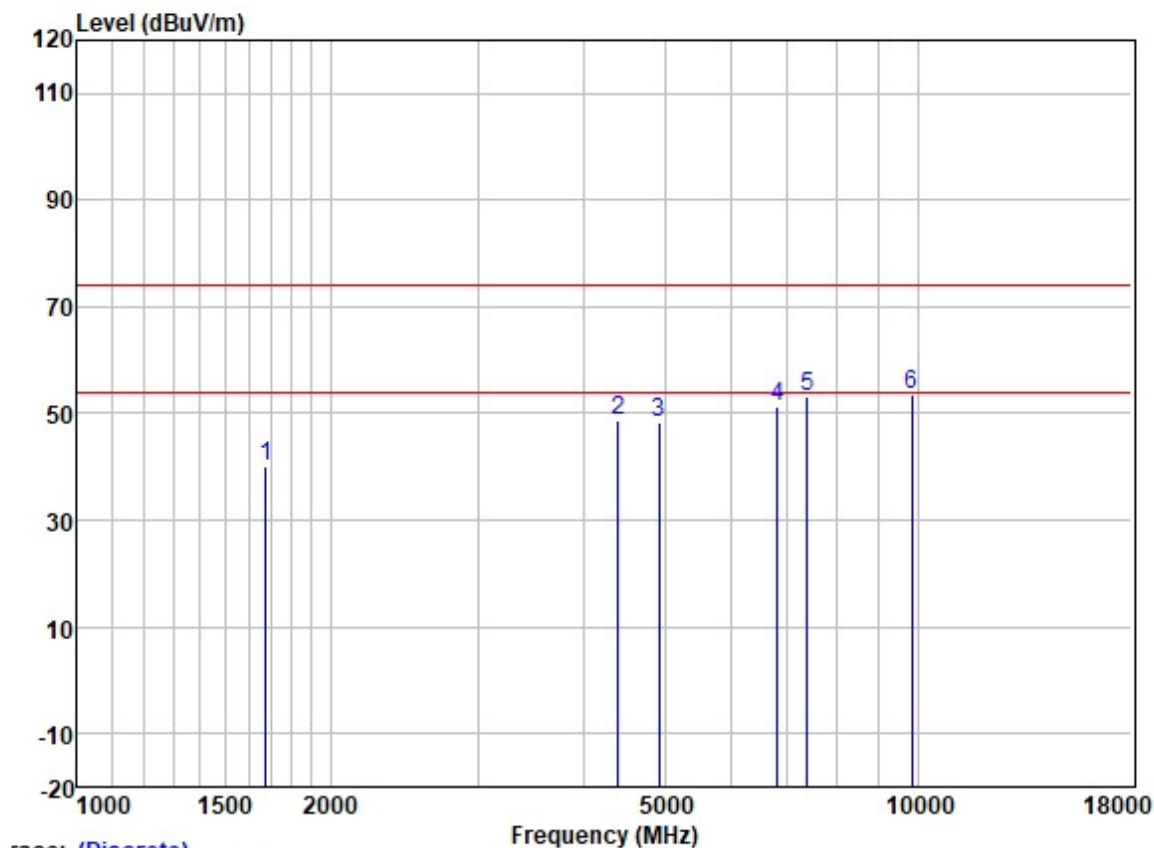
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1667.951	49.37	25.66	2.80	37.91	39.92	74.00	-34.08	VERTICAL	Peak
2	4316.859	50.01	30.51	4.66	36.81	48.37	74.00	-25.63	VERTICAL	Peak
3	4874.000	48.04	31.54	5.50	36.84	48.24	74.00	-25.76	VERTICAL	Peak
4	6564.209	48.73	34.09	5.84	37.03	51.63	74.00	-22.37	VERTICAL	Peak
5	7311.000	47.37	35.93	6.11	37.42	51.99	74.00	-22.01	VERTICAL	Peak
6	9748.000	44.99	38.50	7.02	37.41	53.10	74.00	-20.90	VERTICAL	Peak

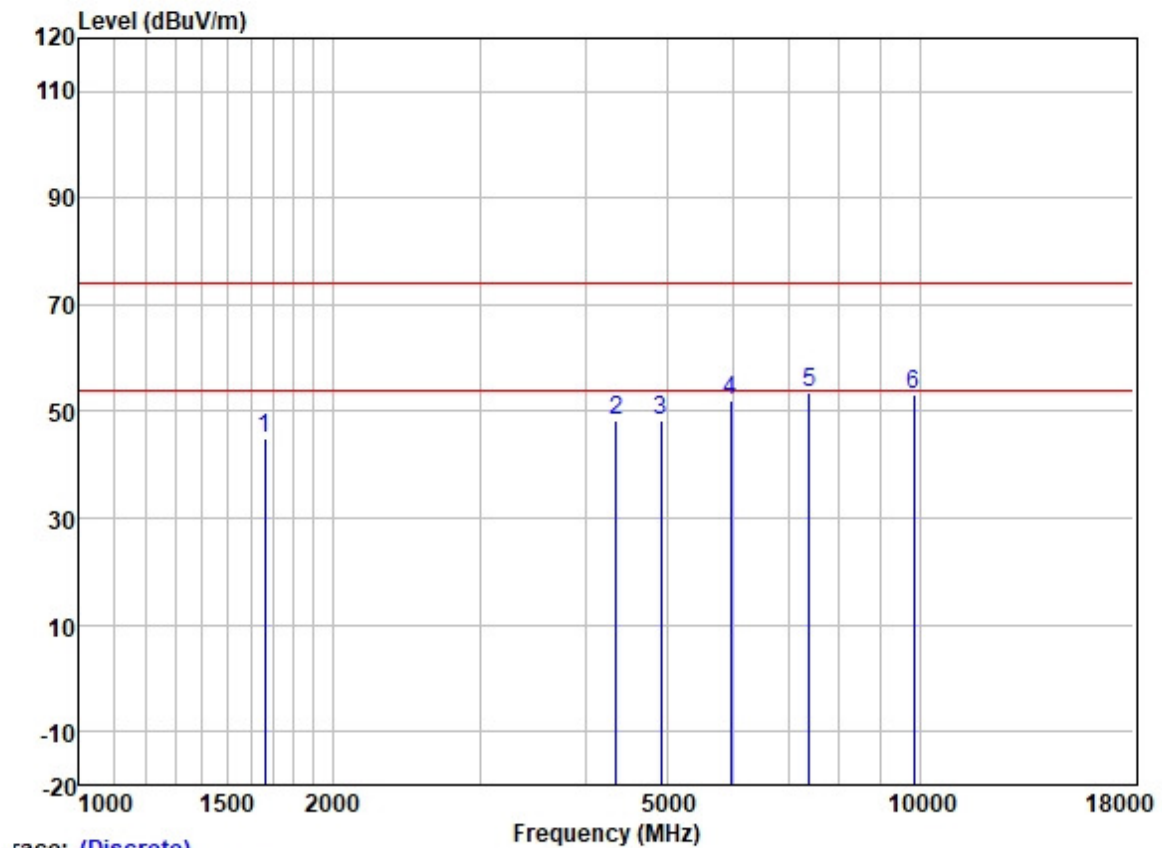
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1677.621	49.71	25.68	2.80	37.91	40.28	74.00	-33.72	HORIZONTAL	Peak
2	4405.090	50.01	30.68	4.70	36.81	48.58	74.00	-25.42	HORIZONTAL	Peak
3	4924.000	48.11	31.62	5.60	36.84	48.49	74.00	-25.51	HORIZONTAL	Peak
4	6815.551	47.95	34.70	5.82	37.13	51.34	74.00	-22.66	HORIZONTAL	Peak
5	7386.000	48.43	36.17	6.19	37.45	53.34	74.00	-20.66	HORIZONTAL	Peak
6	9848.000	45.42	38.58	6.99	37.41	53.58	74.00	-20.42	HORIZONTAL	Peak

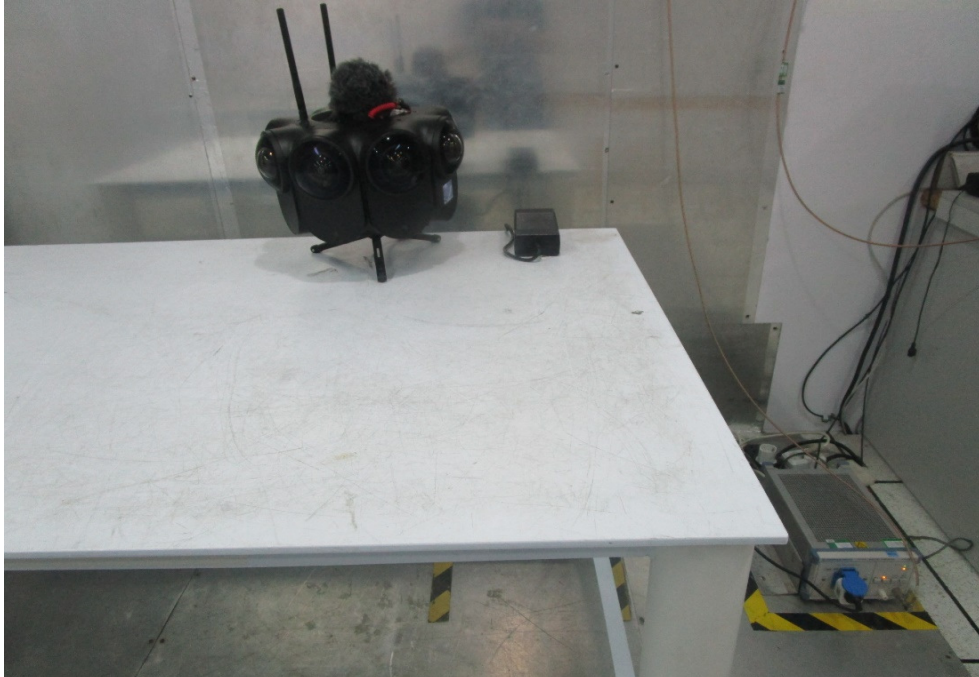
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



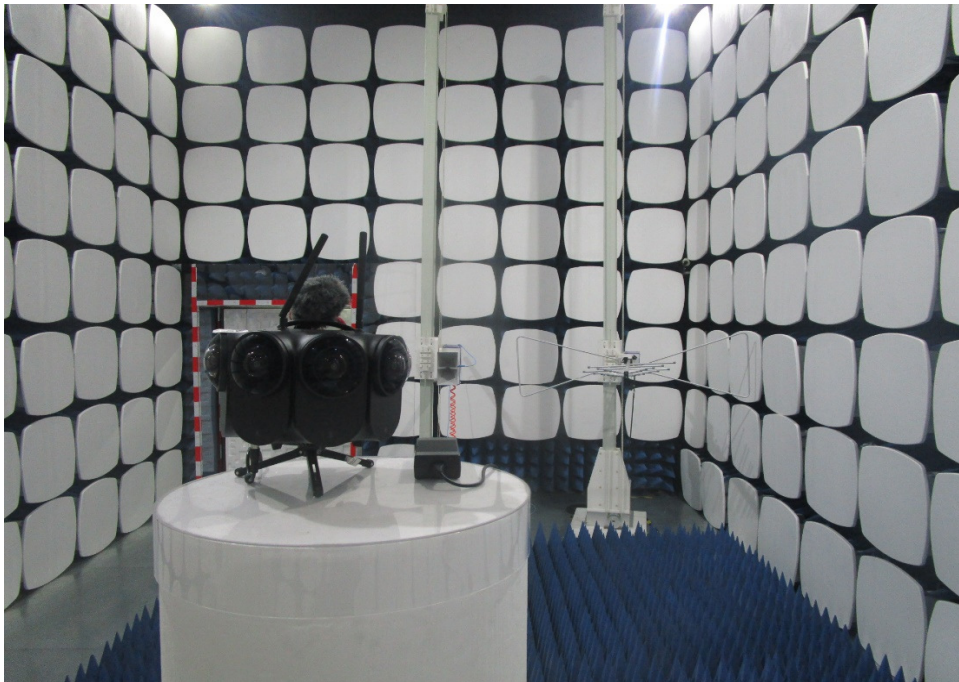
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	54.40	25.65	2.80	37.91	44.94	74.00	-29.06	VERTICAL	Peak
2	4354.454	49.98	30.59	4.68	36.81	48.44	74.00	-25.56	VERTICAL	Peak
3	4924.000	48.05	31.62	5.60	36.84	48.43	74.00	-25.57	VERTICAL	Peak
4	5949.811	50.46	32.36	6.05	36.90	51.97	74.00	-22.03	VERTICAL	Peak
5	7386.000	48.45	36.17	6.19	37.45	53.36	74.00	-20.64	VERTICAL	Peak
6	9848.000	44.93	38.58	6.99	37.41	53.09	74.00	-20.91	VERTICAL	Peak

8 Test Setup Photo

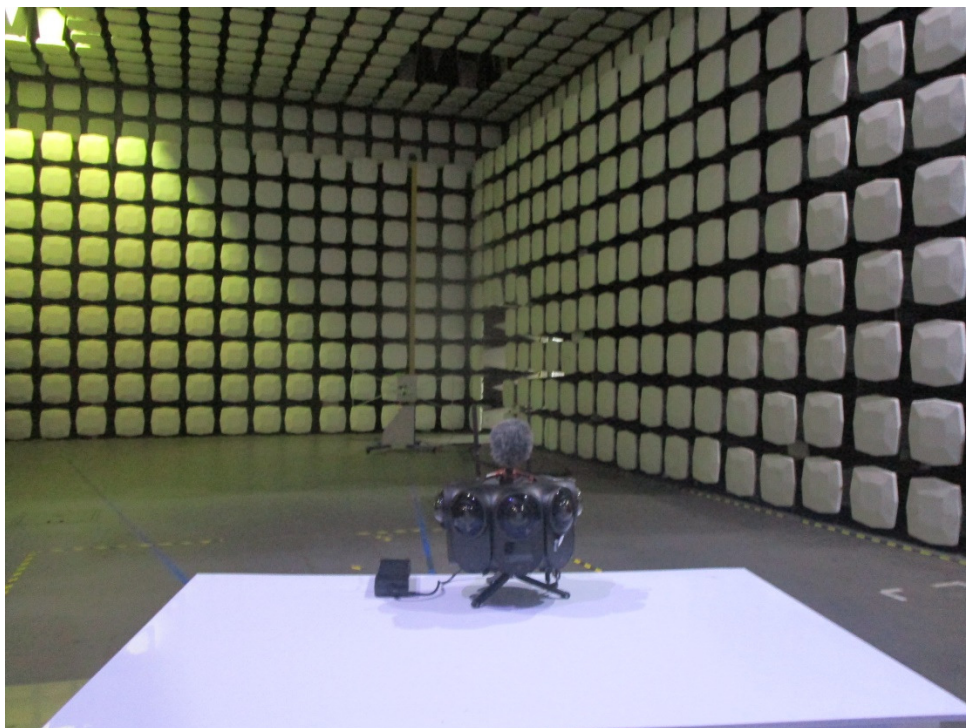
Conducted Emissions at AC Power Line (150kHz-30MHz)



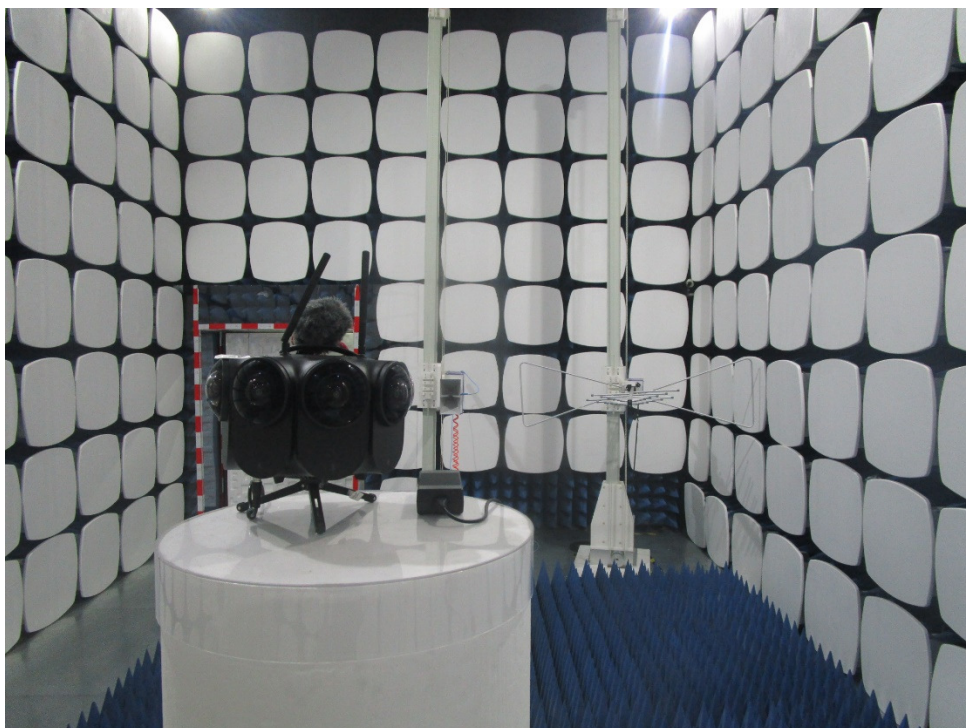
Radiated Emissions which fall in the restricted bands



Radiated Spurious Emissions (Below 1GHz)



Radiated Spurious Emissions (Above 1GHz)



9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021203AT

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

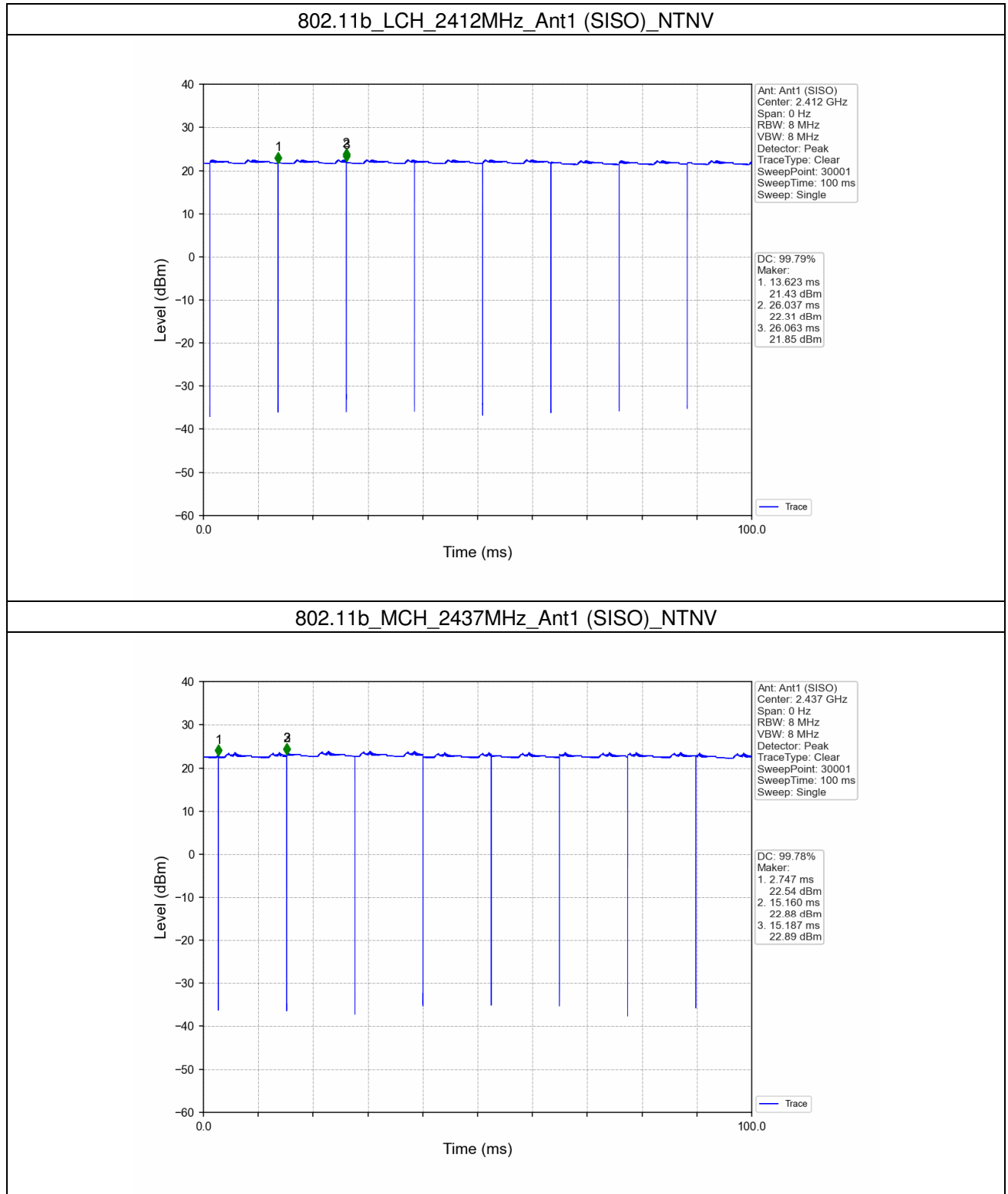
Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.414	12.440	99.79	0.01	0.03
		2437	12.413	12.440	99.78	0.01	0.00
		2462	12.414	12.440	99.79	0.01	0.03
802.11g	SISO	2412	2.064	2.084	99.04	0.04	0.03
		2437	2.064	2.083	99.09	0.04	0.04
		2462	2.064	2.084	99.04	0.04	0.04
802.11n (HT20)	MIMO	2412	1.920	1.940	98.97	0.05	0.03
		2437	1.920	1.940	98.97	0.05	0.03
		2462	1.920	1.940	98.97	0.05	0.03



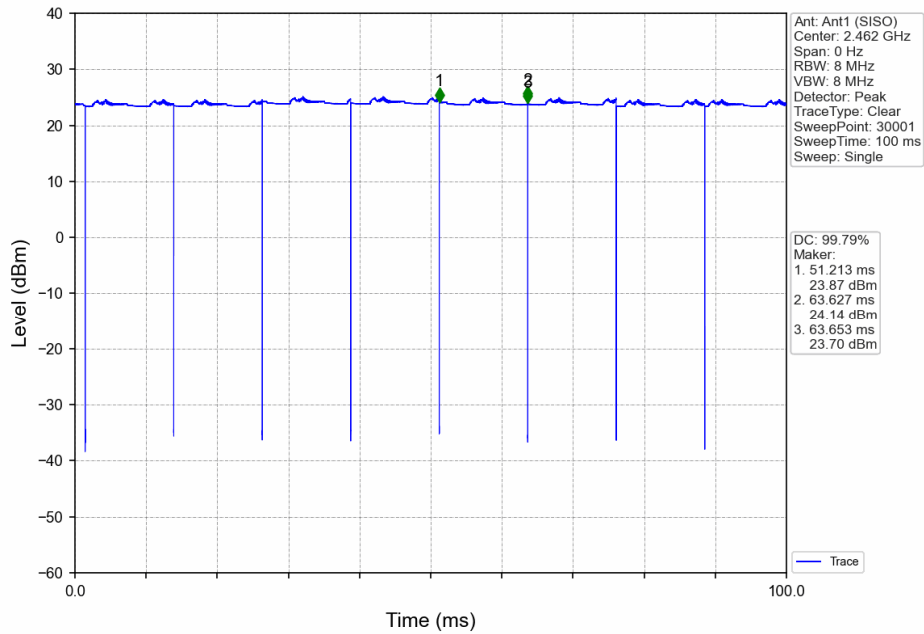
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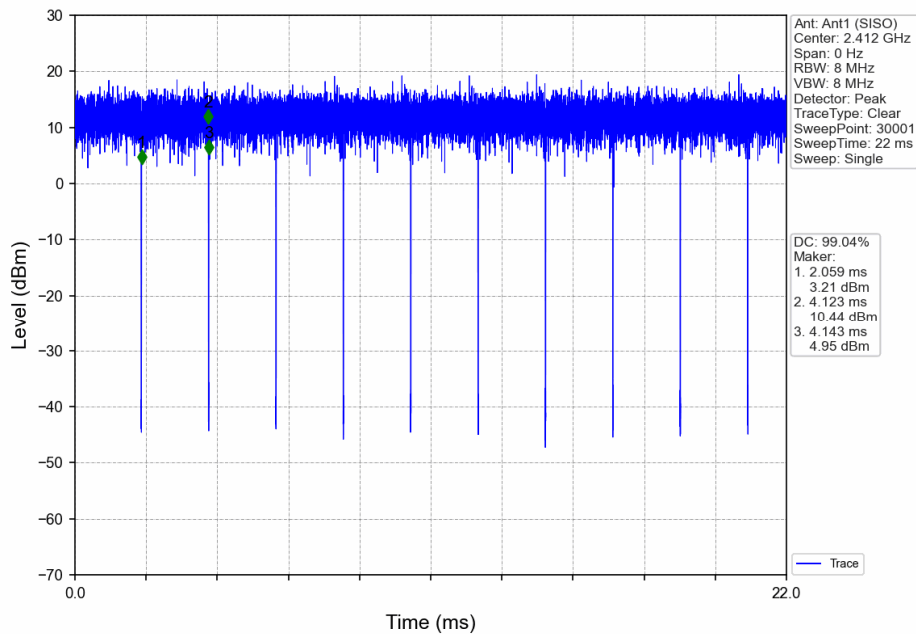
1.1.2 Test Graph



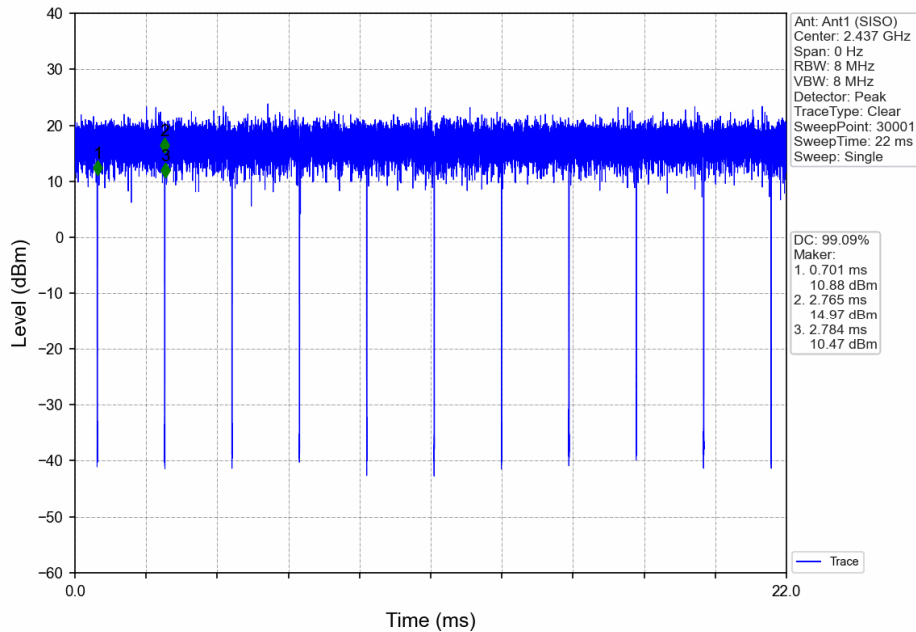
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



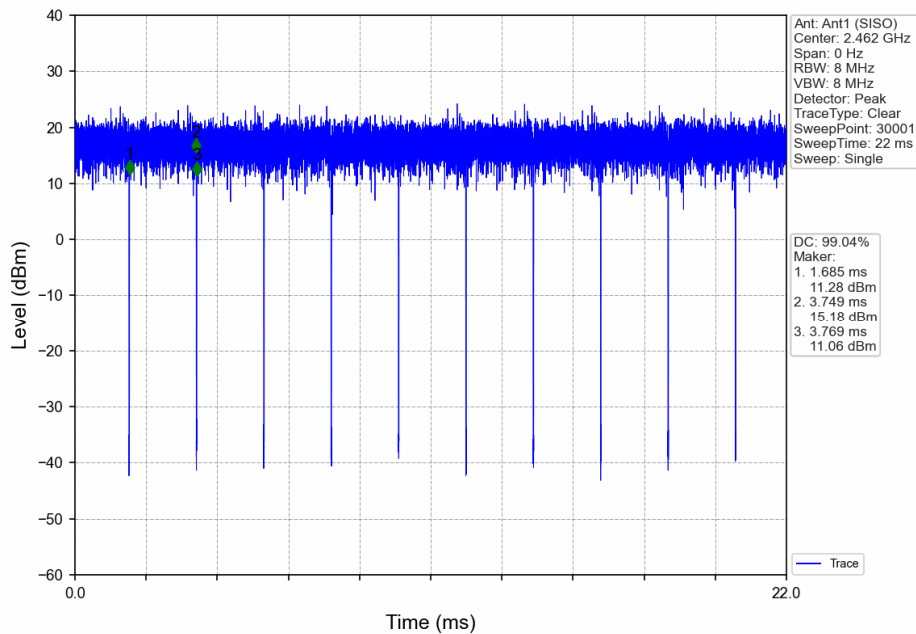
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



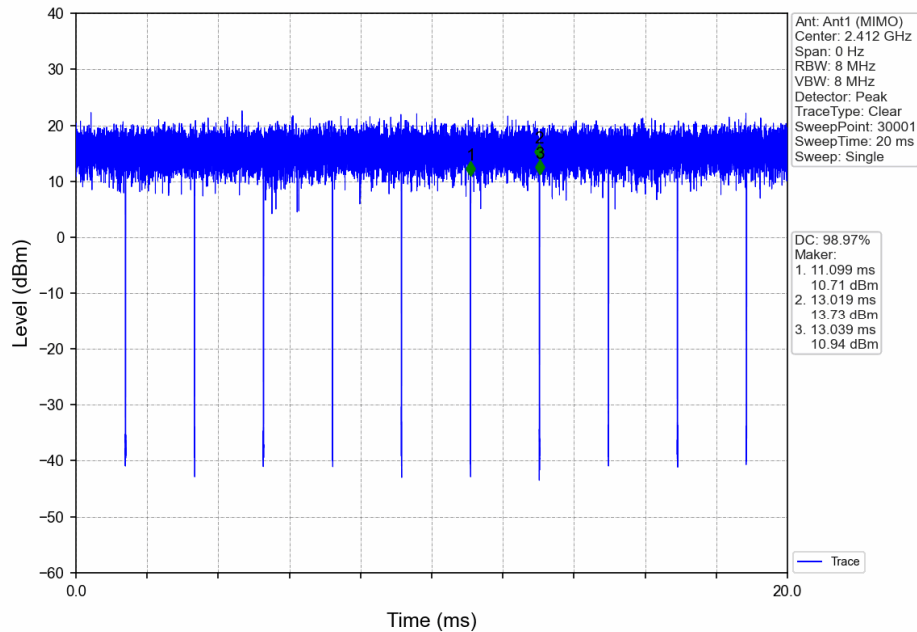
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



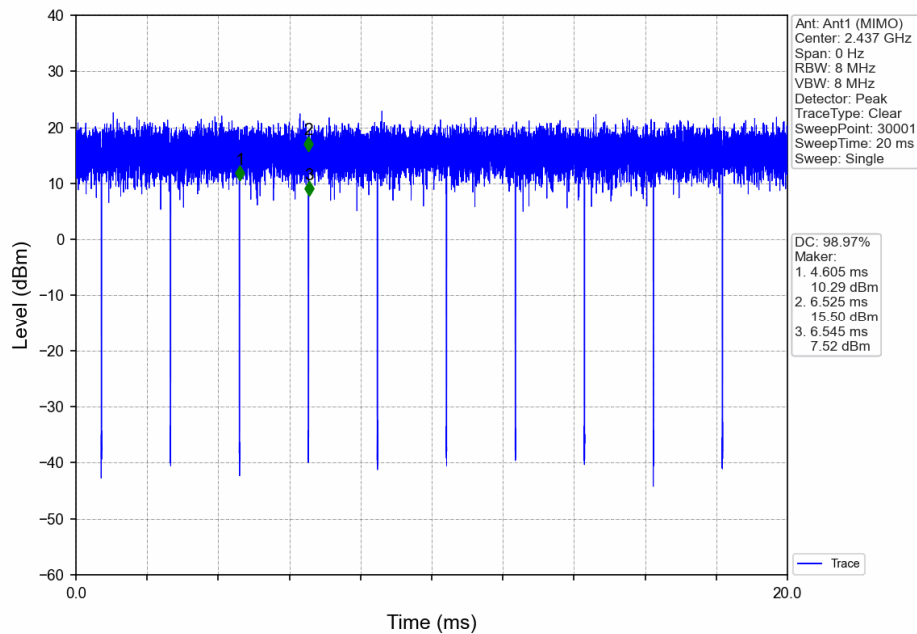
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



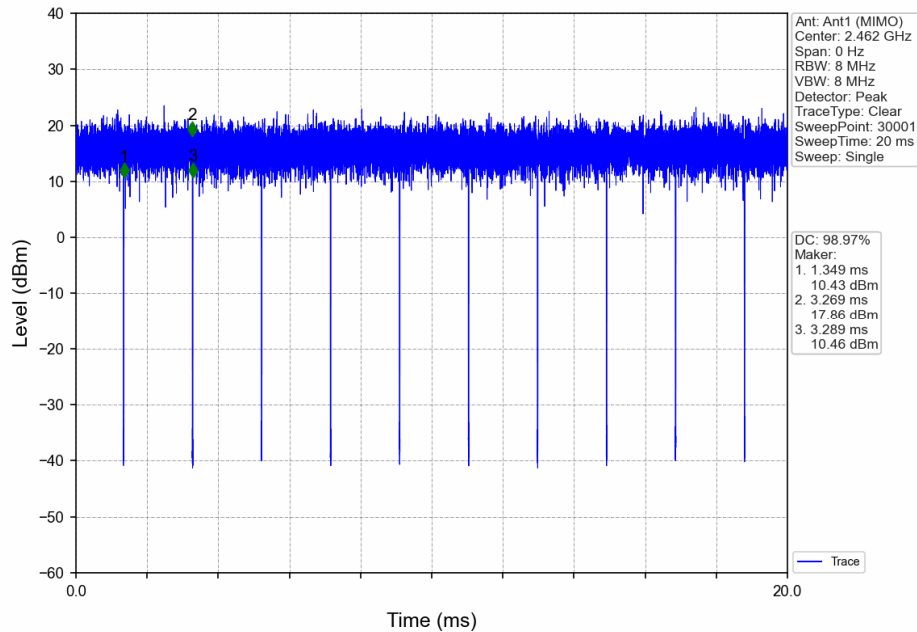
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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2. Bandwidth

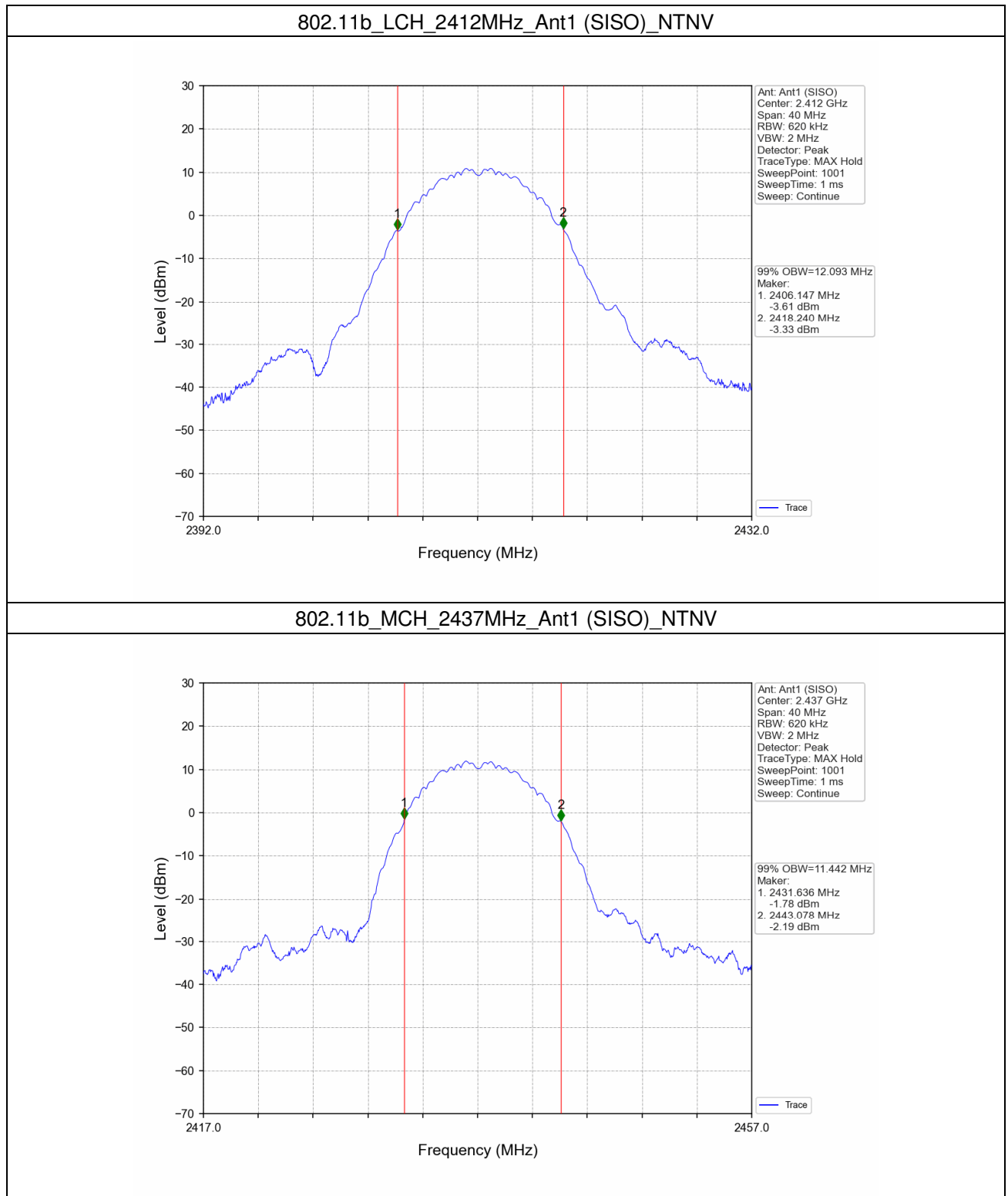
2.1 OBW

2.1.1 Test Result

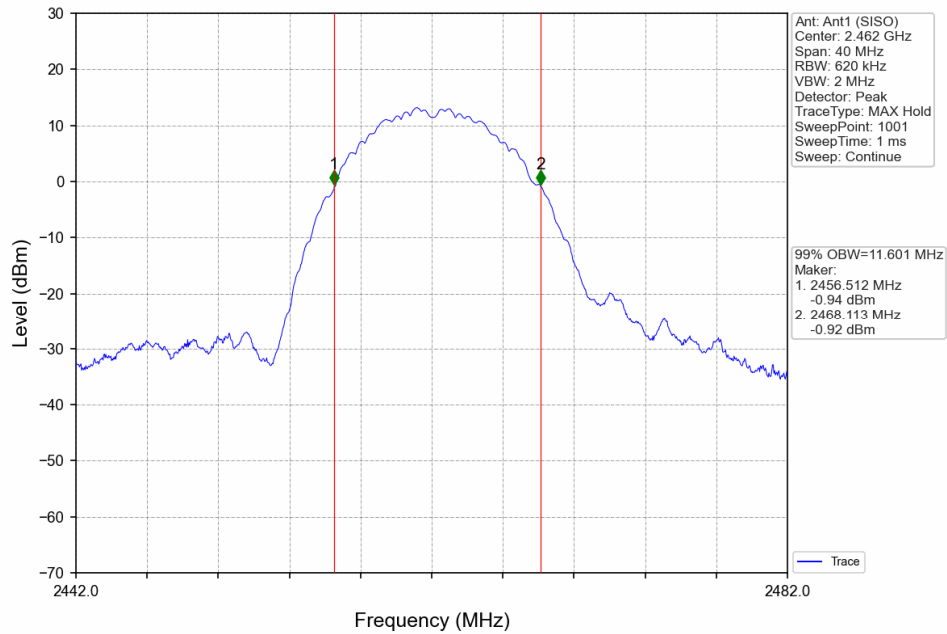
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	12.093	Pass
		2437	1	11.442	Pass
		2462	1	11.601	Pass
802.11g	SISO	2412	1	17.928	Pass
		2437	1	18.089	Pass
		2462	1	18.030	Pass
802.11n (HT20)	MIMO	2412	1	19.088	Pass
		2437	1	19.041	Pass
		2462	1	18.999	Pass

Remark: Both Ant1 and Ant2 have been tested, only record the worst case in the report.

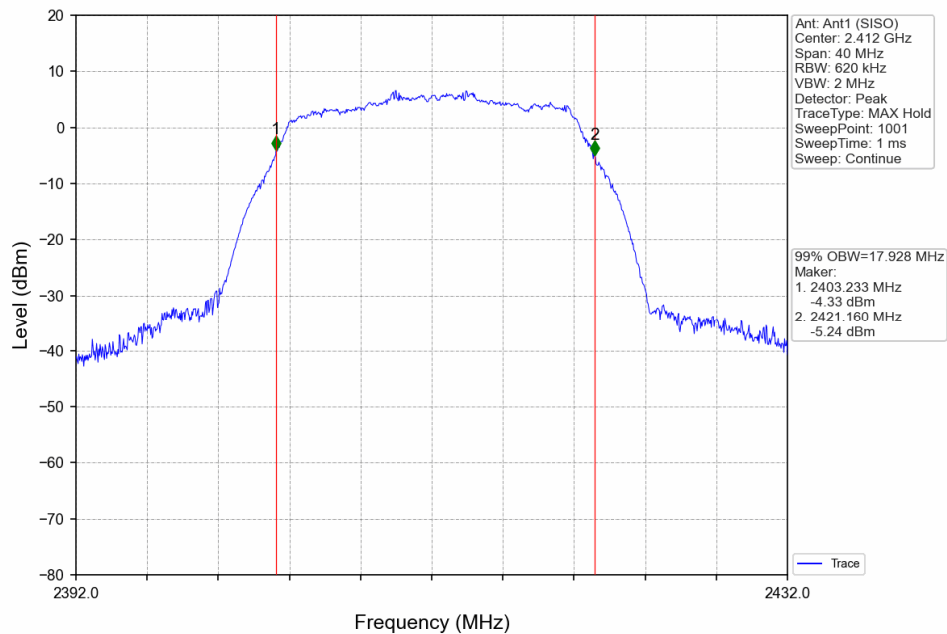
2.1.2 Test Graph



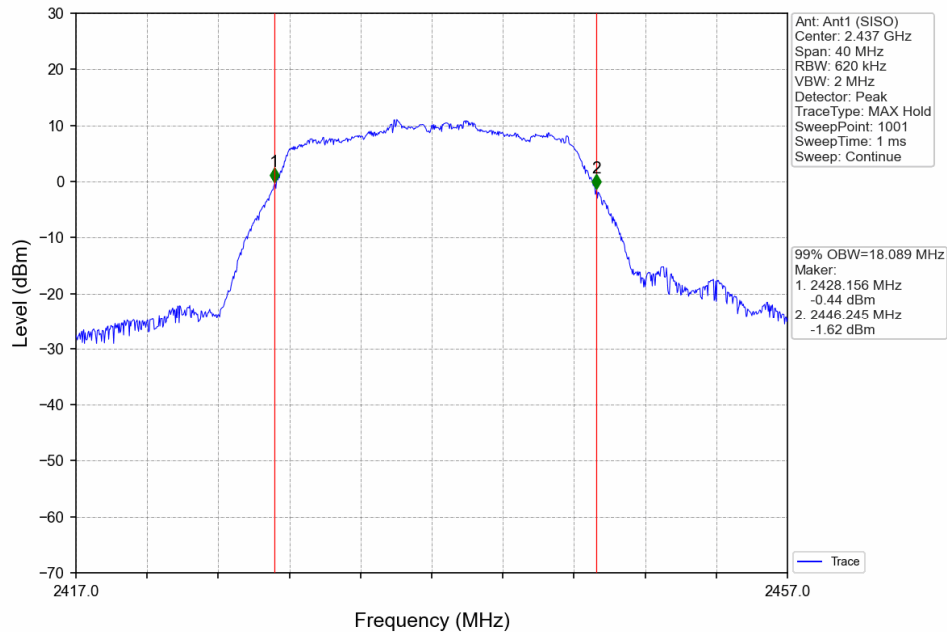
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



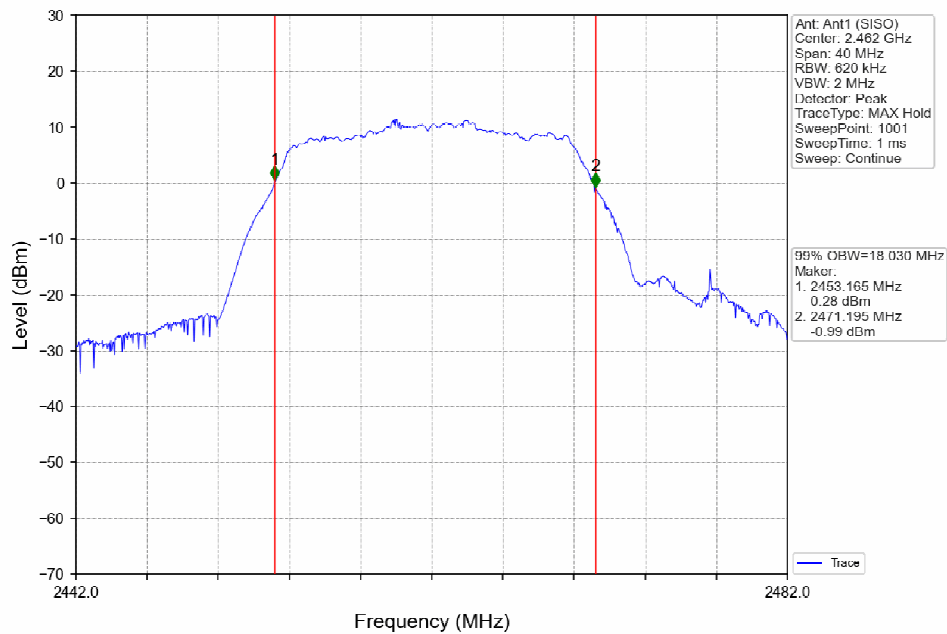
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



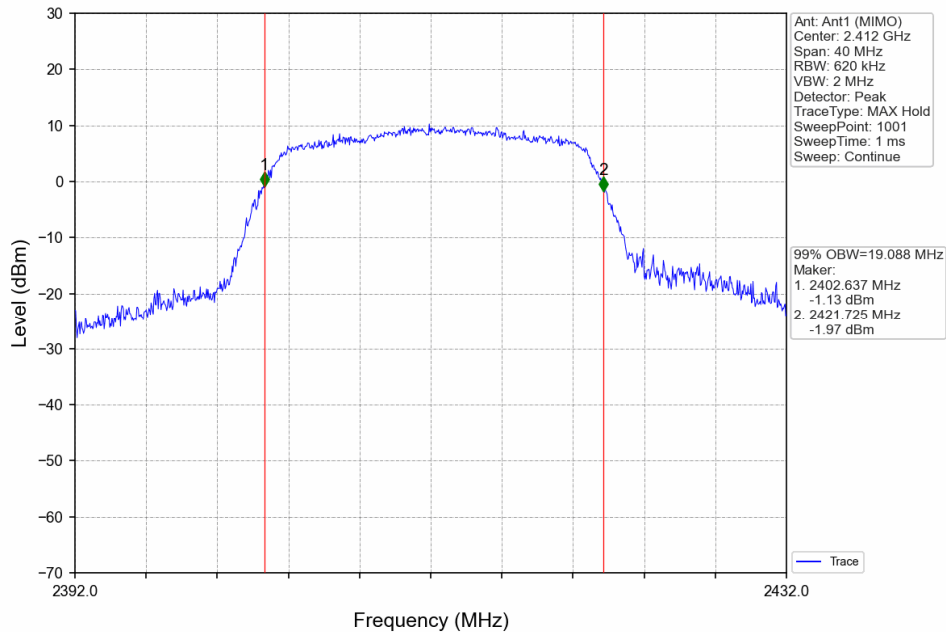
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



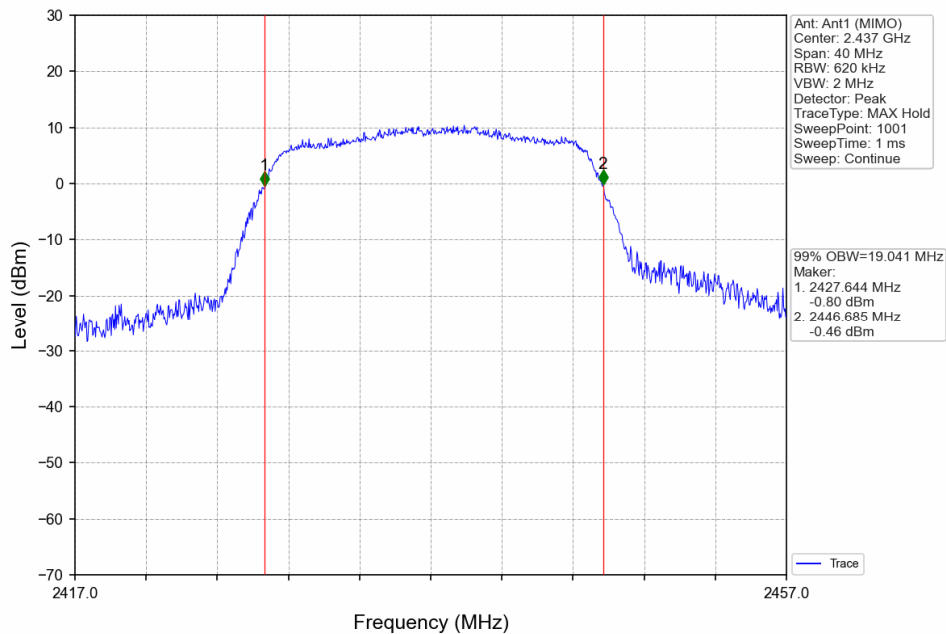
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



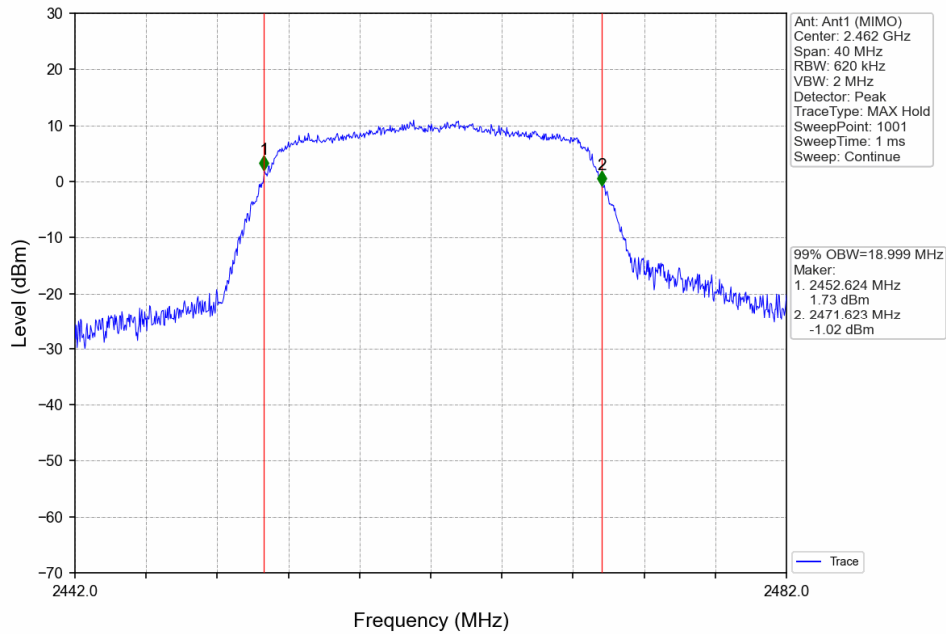
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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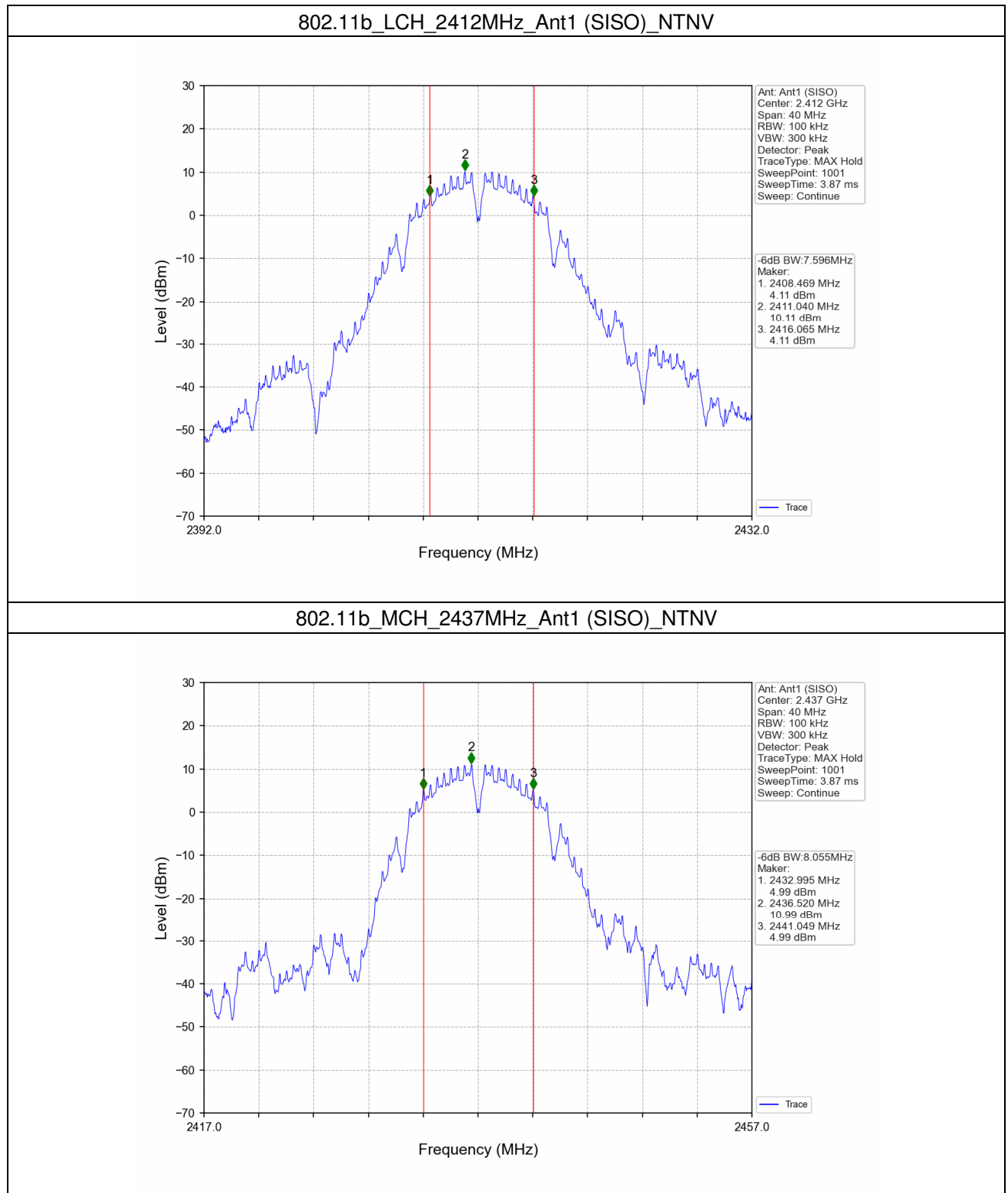
2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.596	≥ 0.5	Pass
		2437	1	8.055	≥ 0.5	Pass
		2462	1	7.119	≥ 0.5	Pass
802.11g	SISO	2412	1	16.370	≥ 0.5	Pass
		2437	1	16.393	≥ 0.5	Pass
		2462	1	16.372	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.349	≥ 0.5	Pass
		2437	1	17.398	≥ 0.5	Pass
		2462	1	17.588	≥ 0.5	Pass

Remark: Both Ant1 and Ant2 have been tested, only record the worst case in the report.

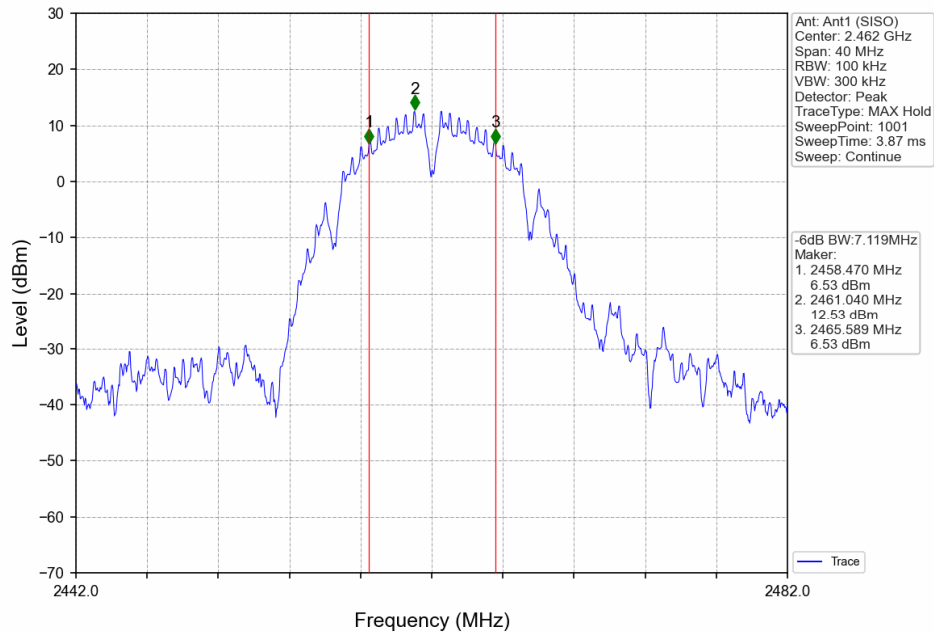
2.2.2 Test Graph



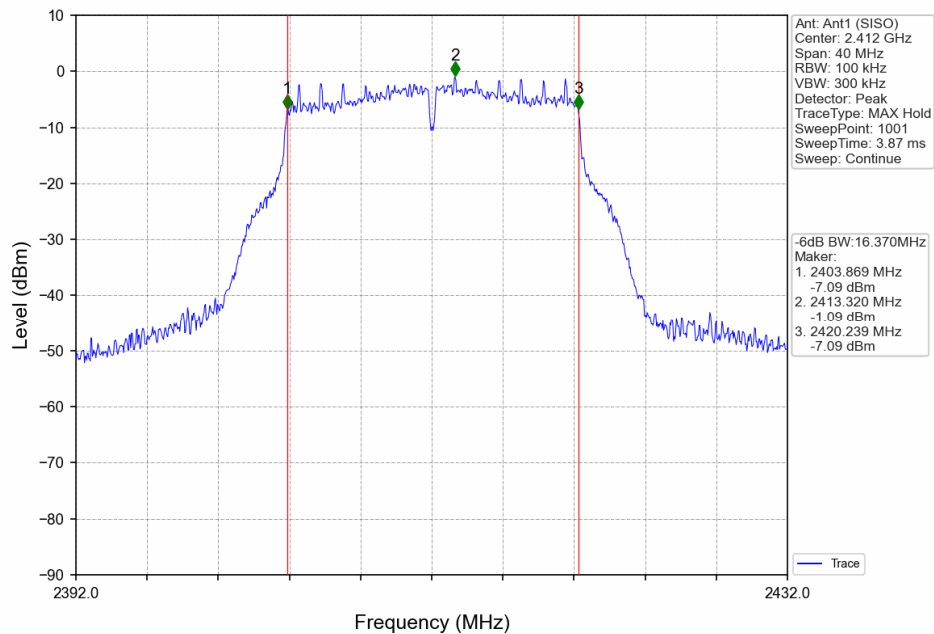
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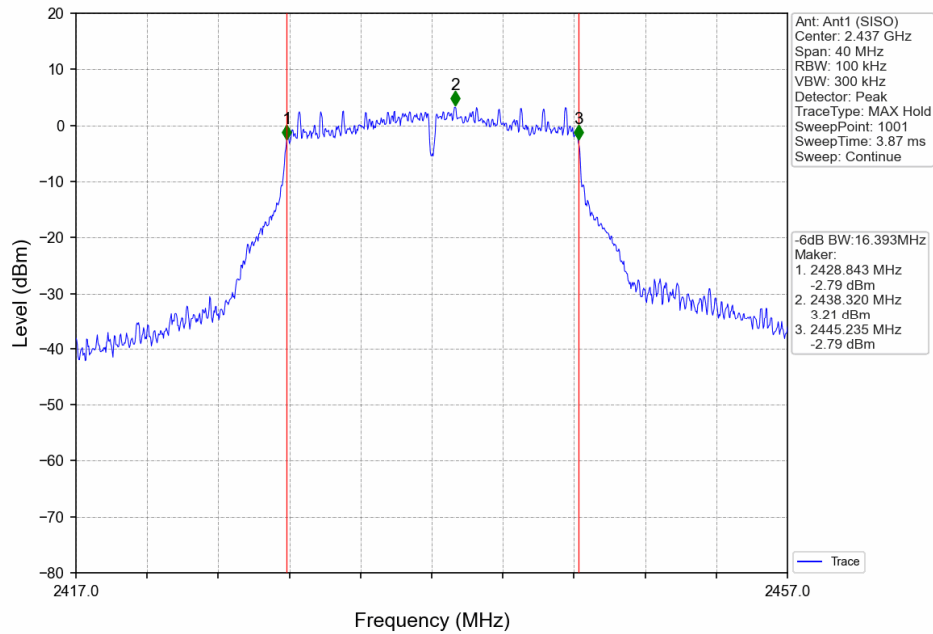
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



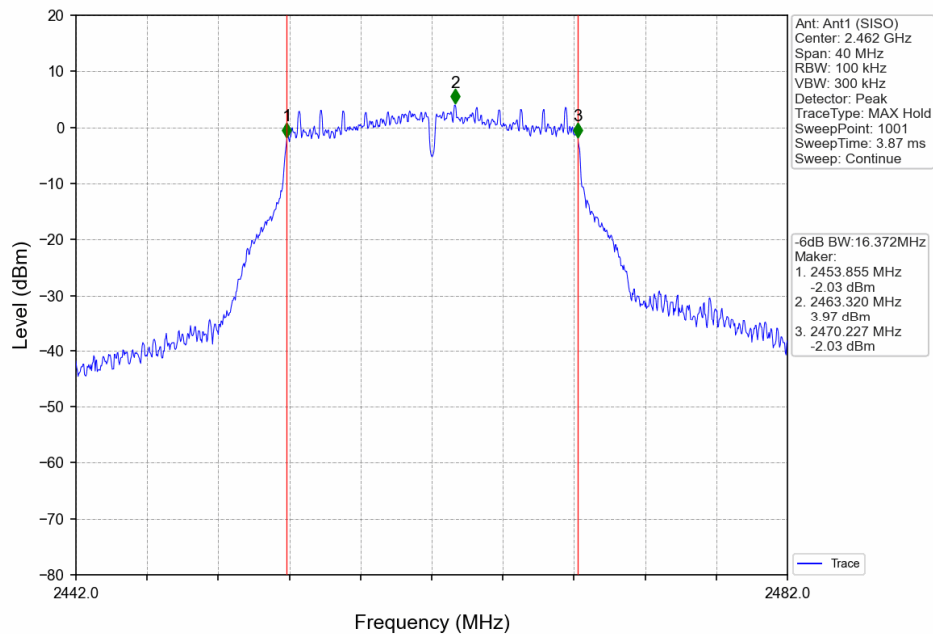
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



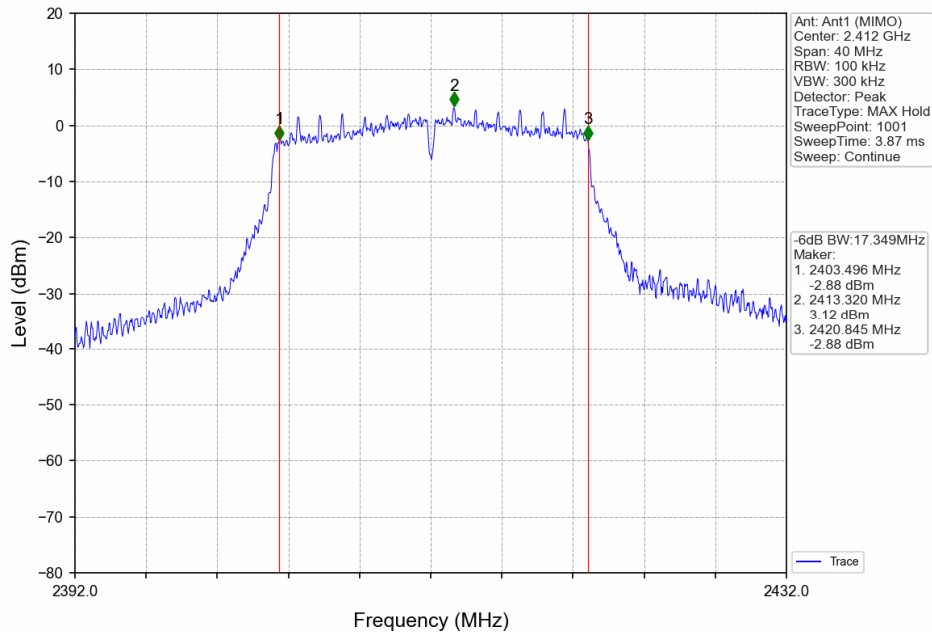
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



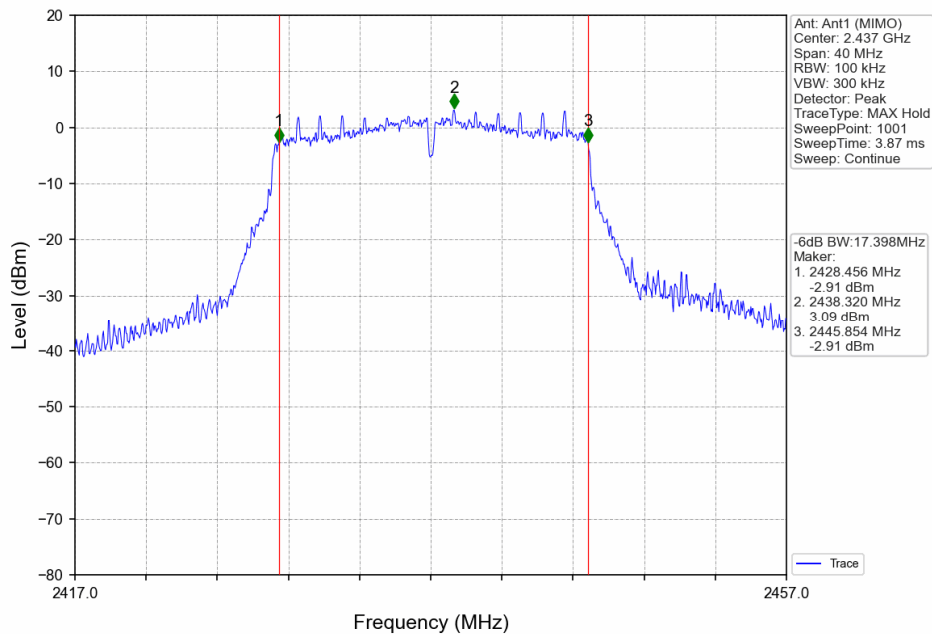
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



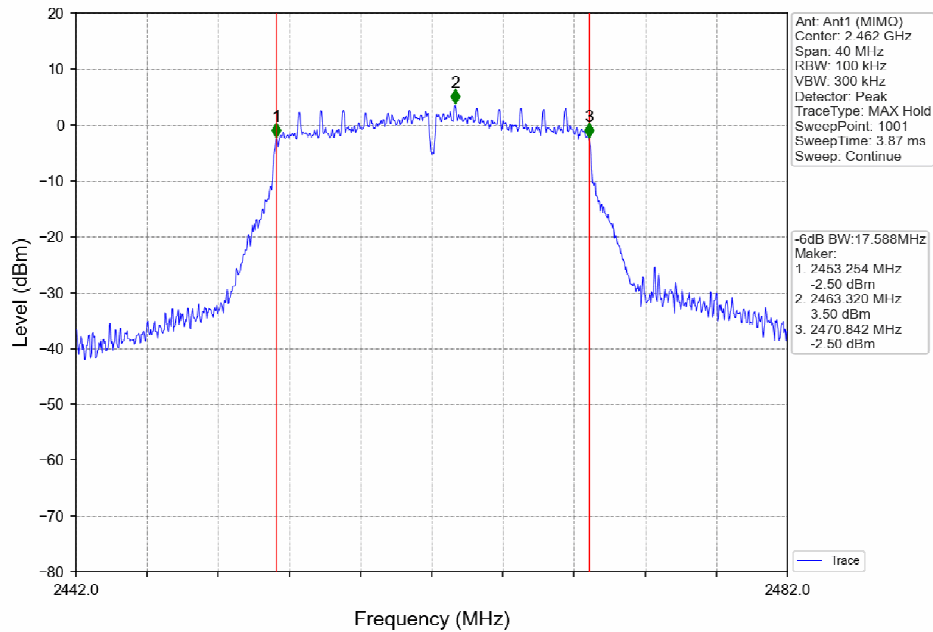
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	18.32	18.58	/	<=30	Pass
		2437	18.66	19.48	/	<=30	Pass
		2462	19.89	20.28	/	<=30	Pass
802.11g	SISO	2412	14.79	13.91	/	<=30	Pass
		2437	15.07	14.33	/	<=30	Pass
		2462	15.45	15.18	/	<=30	Pass
802.11n (HT20)	MIMO	2412	14.63	13.79	17.24	<=27.99	Pass
		2437	14.46	14.22	17.35	<=27.99	Pass
		2462	14.91	15.00	17.97	<=27.99	Pass

Note: MIMO limit=30dBm-(Directional antenna gain-6dBi)

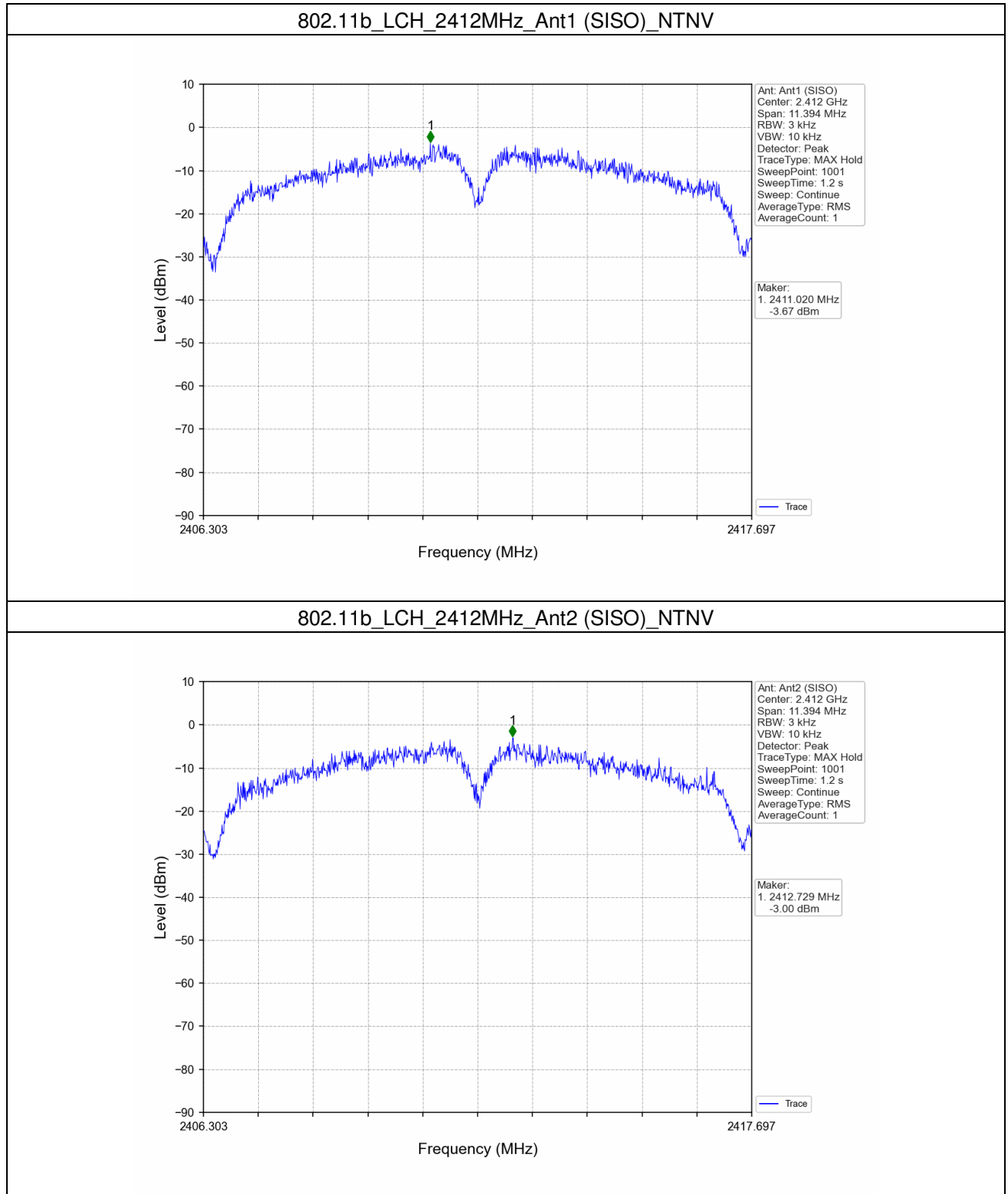
4. Maximum Power Spectral Density

4.1 PSD

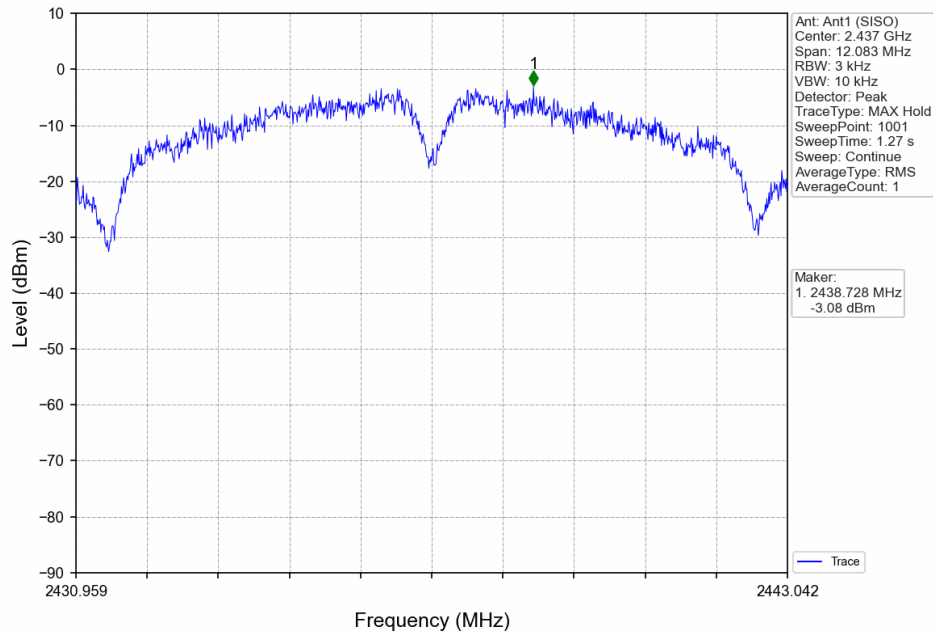
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-3.67	-3.00	/	<=8	Pass
		2437	-3.08	-1.97	/	<=8	Pass
		2462	-1.76	-0.48	/	<=8	Pass
802.11g	SISO	2412	-9.66	-9.23	/	<=8	Pass
		2437	-8.47	-10.39	/	<=8	Pass
		2462	-9.04	-8.49	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-9.91	-10.26	-7.56	<=8	Pass
		2437	-10.15	-10.13	-7.25	<=8	Pass
		2462	-9.69	-9.70	-7.15	<=8	Pass

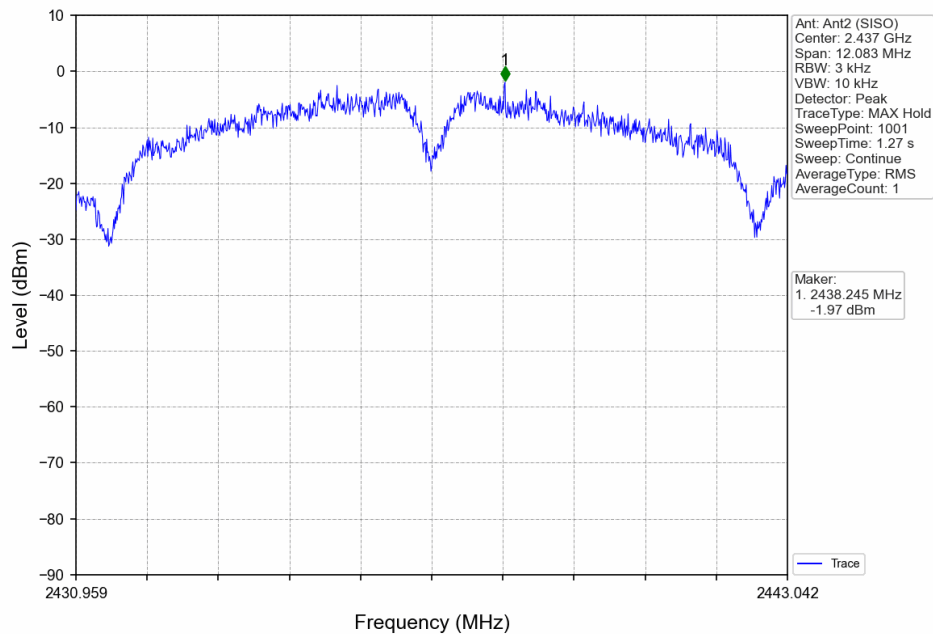
4.1.2 Test Graph



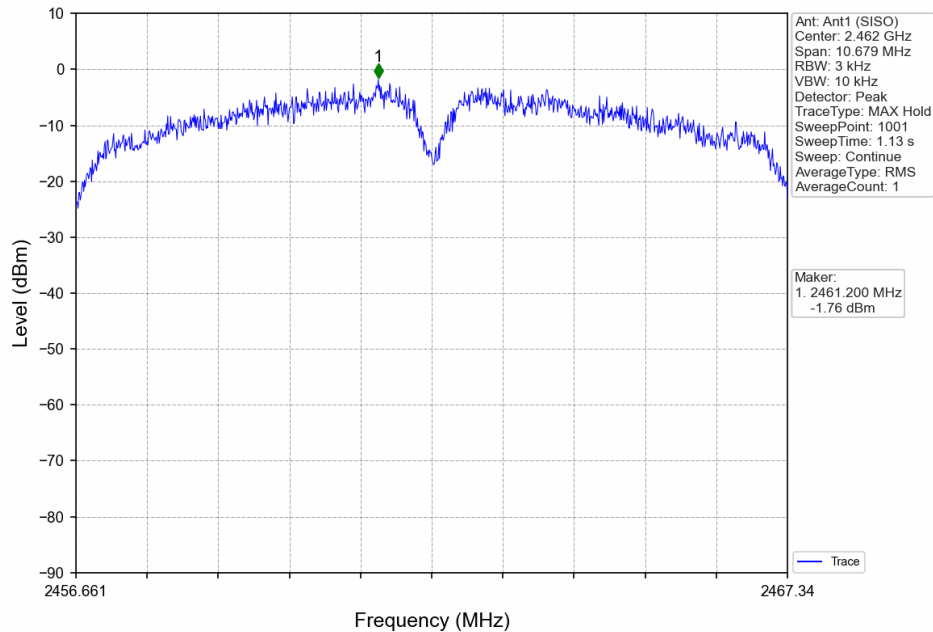
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



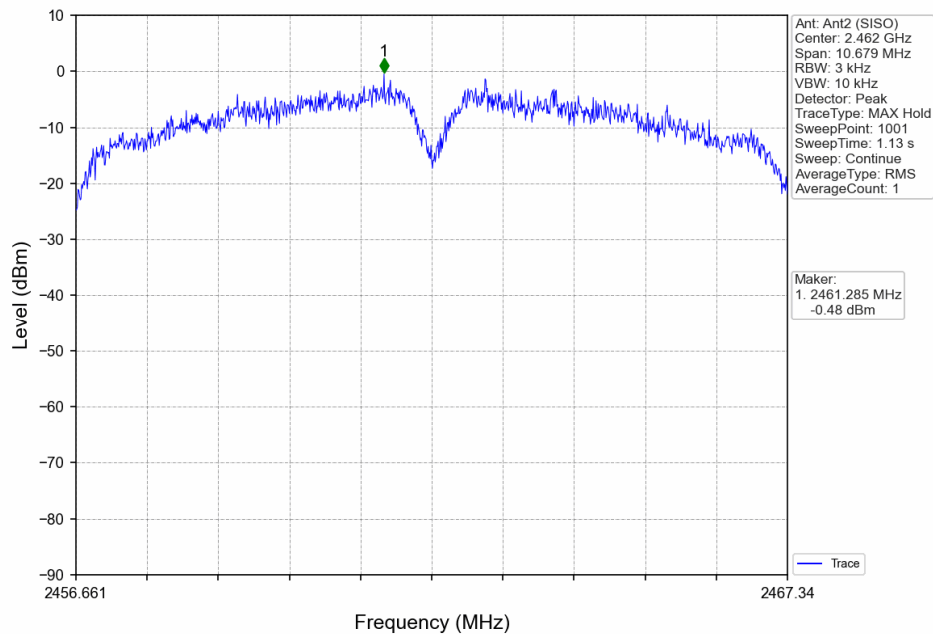
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



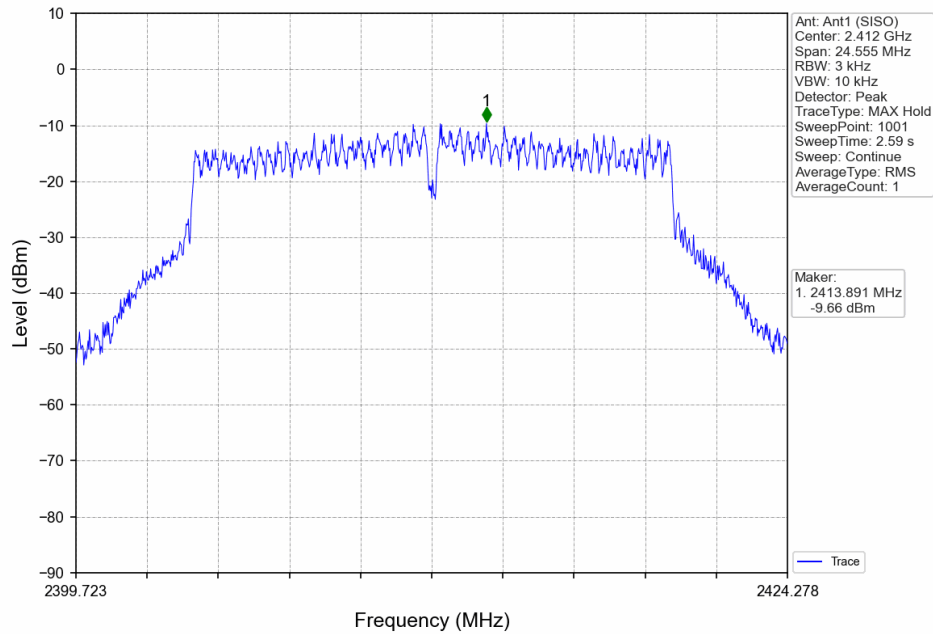
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



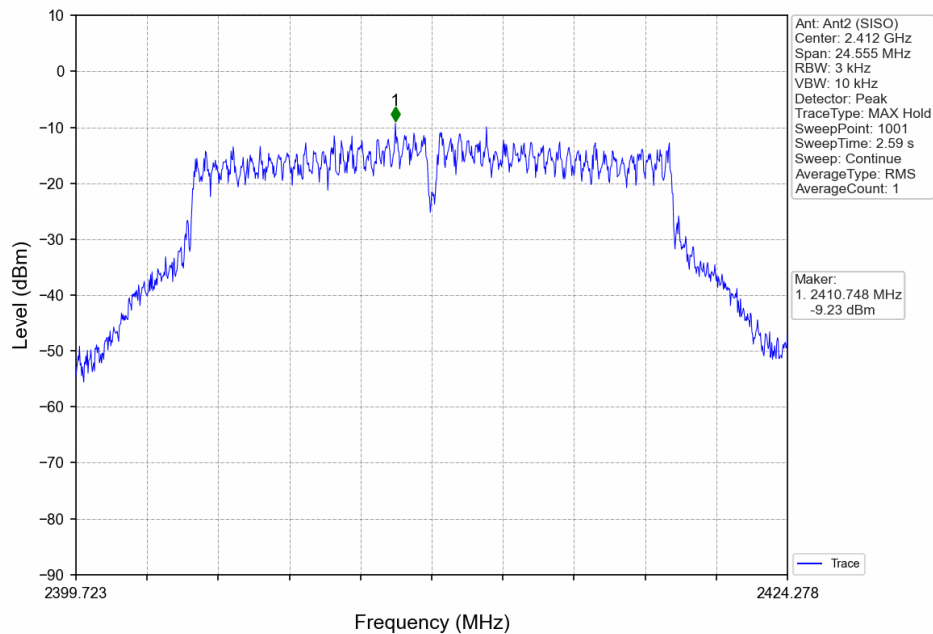
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



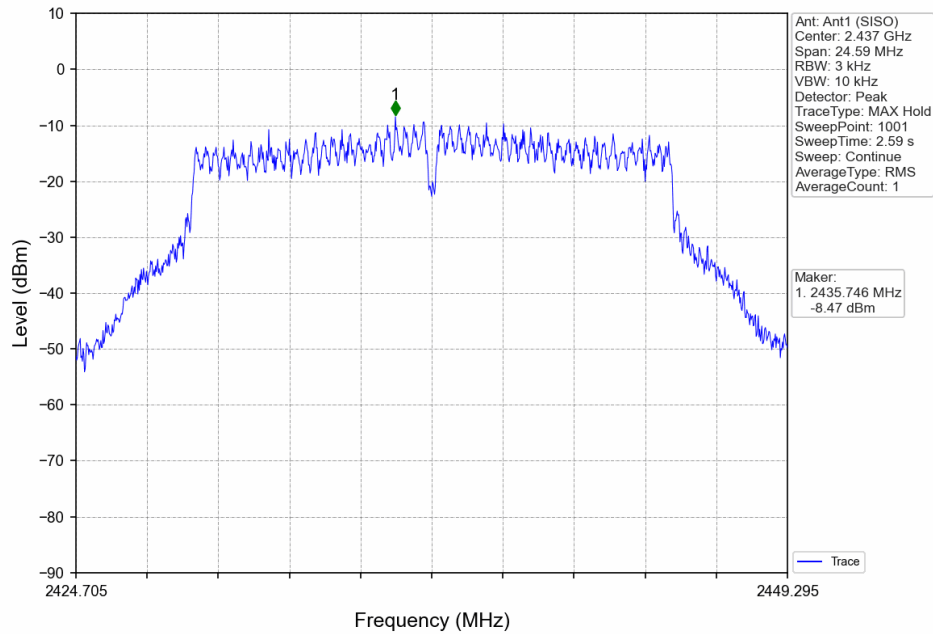
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



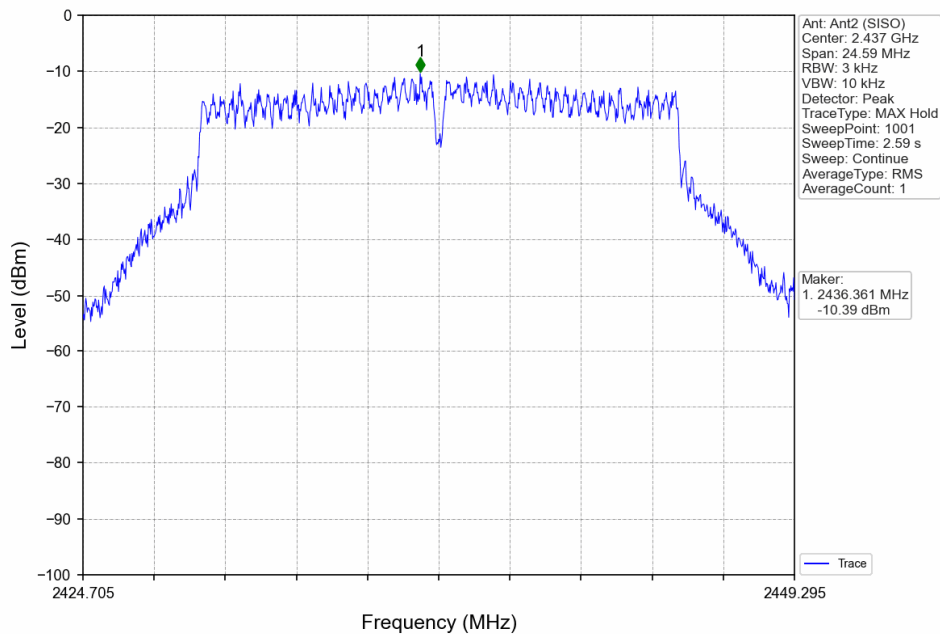
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



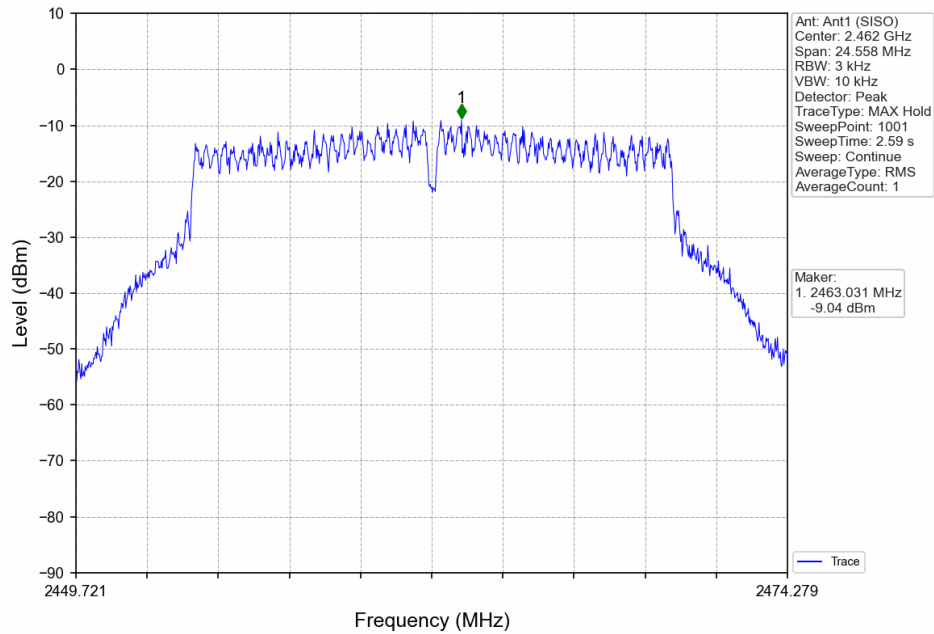
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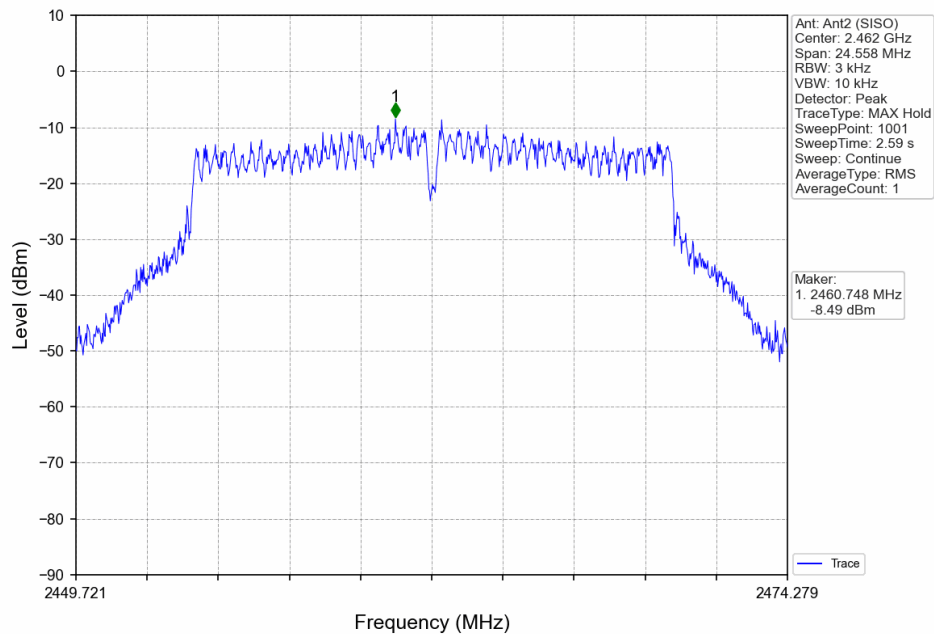
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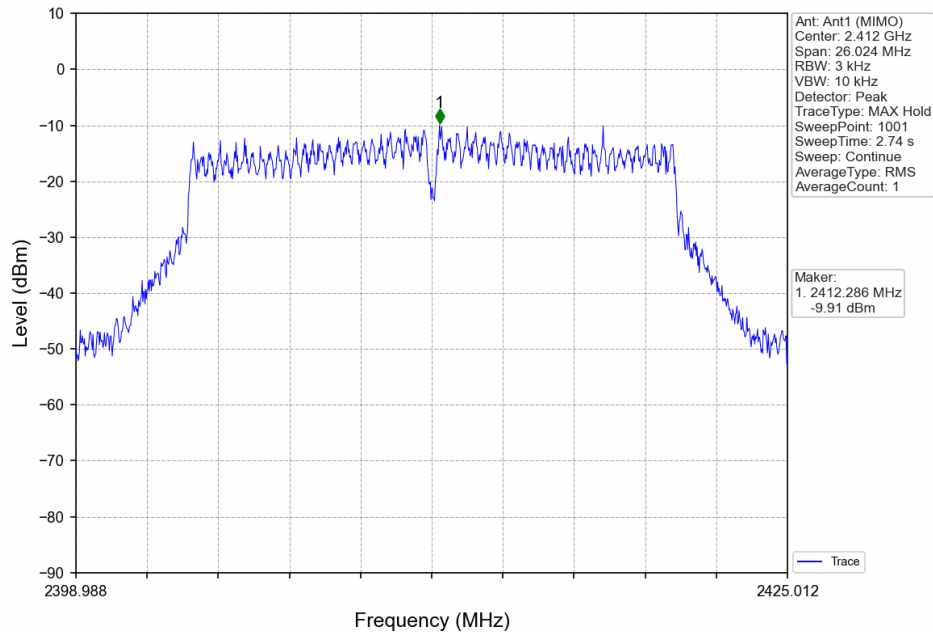
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



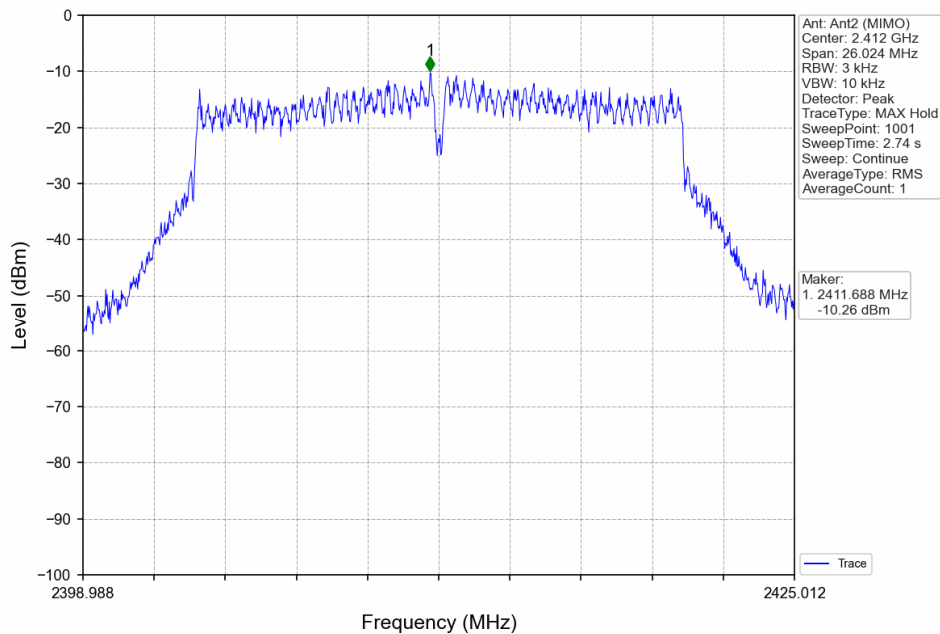
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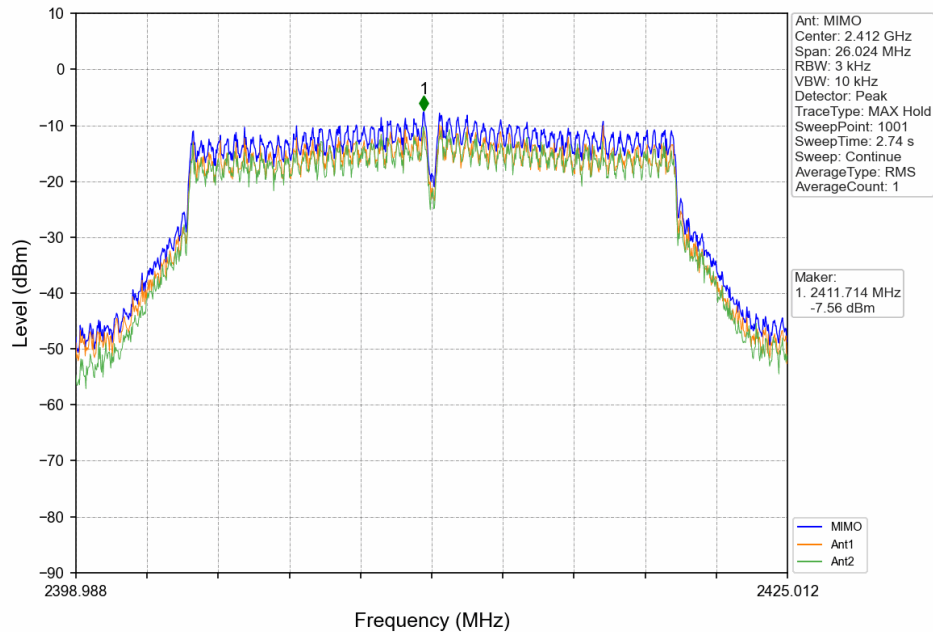
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



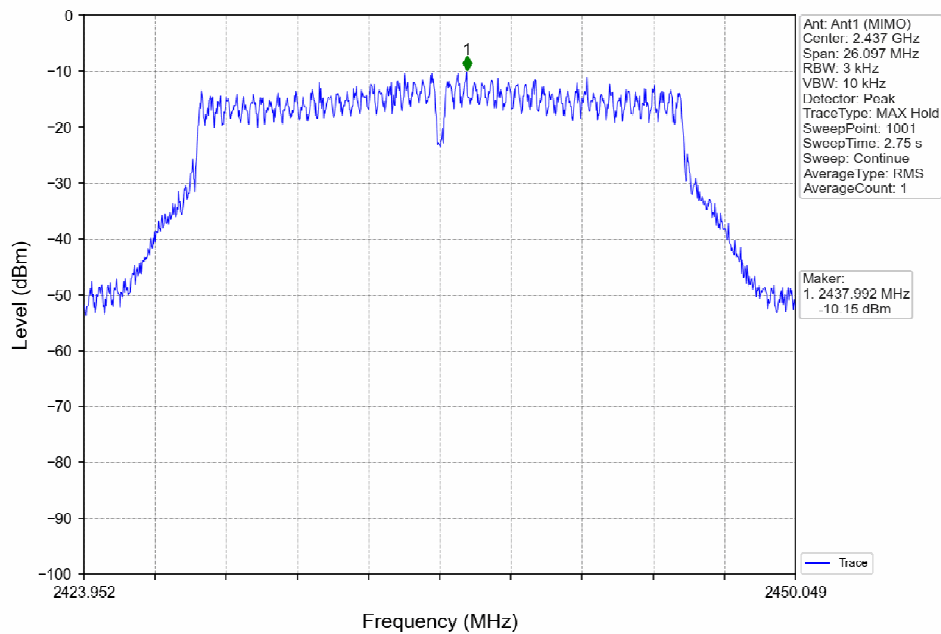
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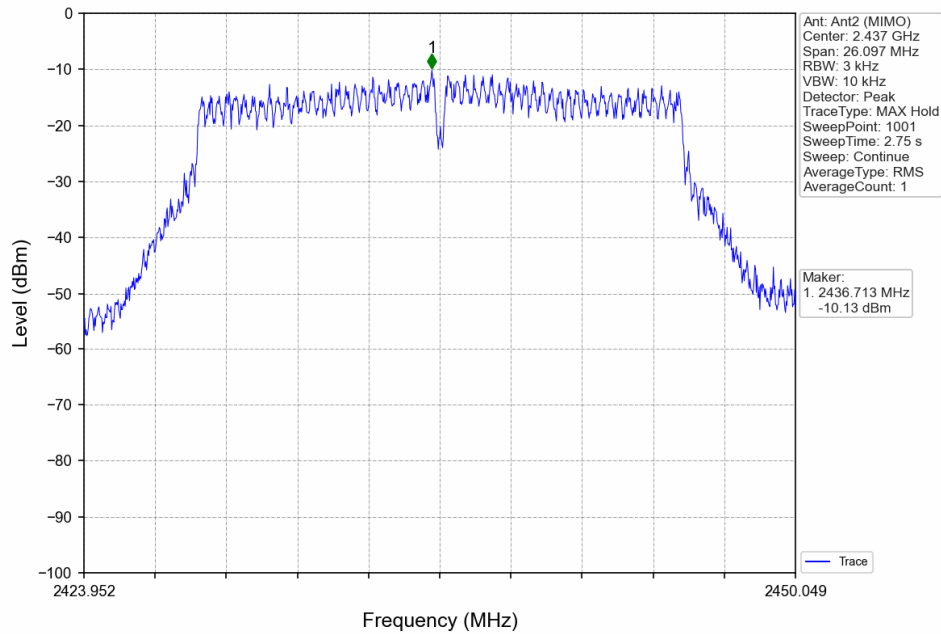
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



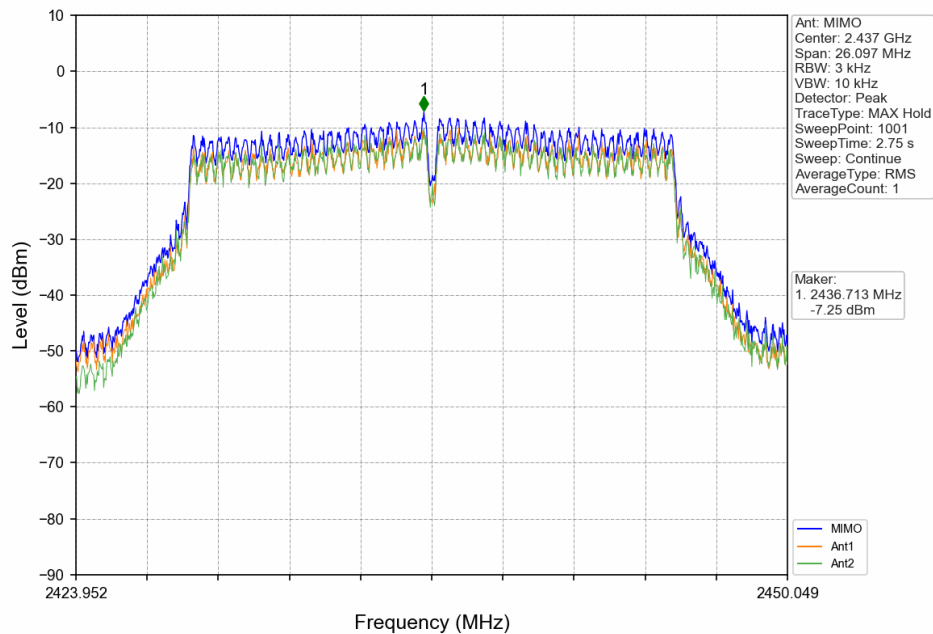
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



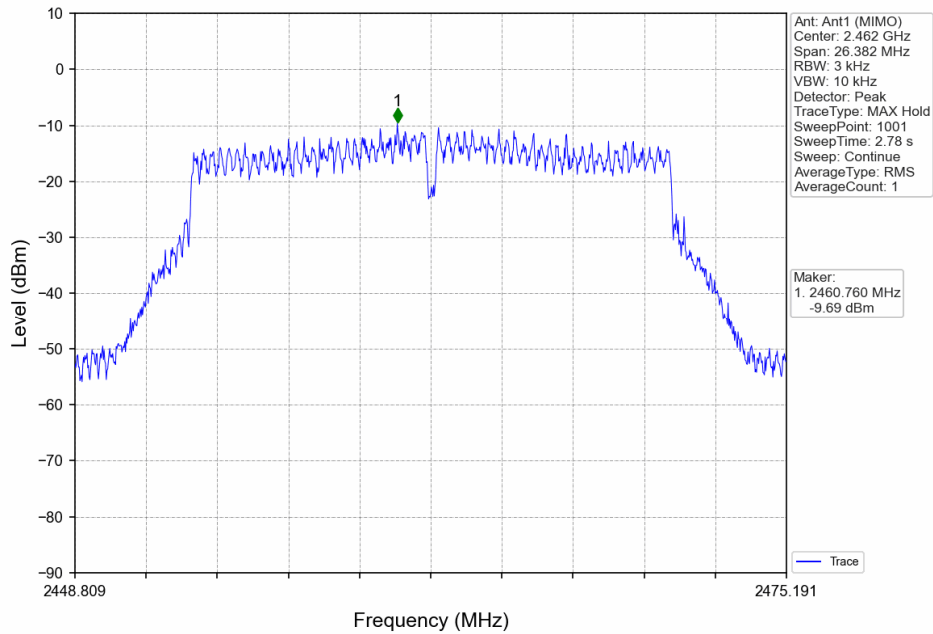
802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



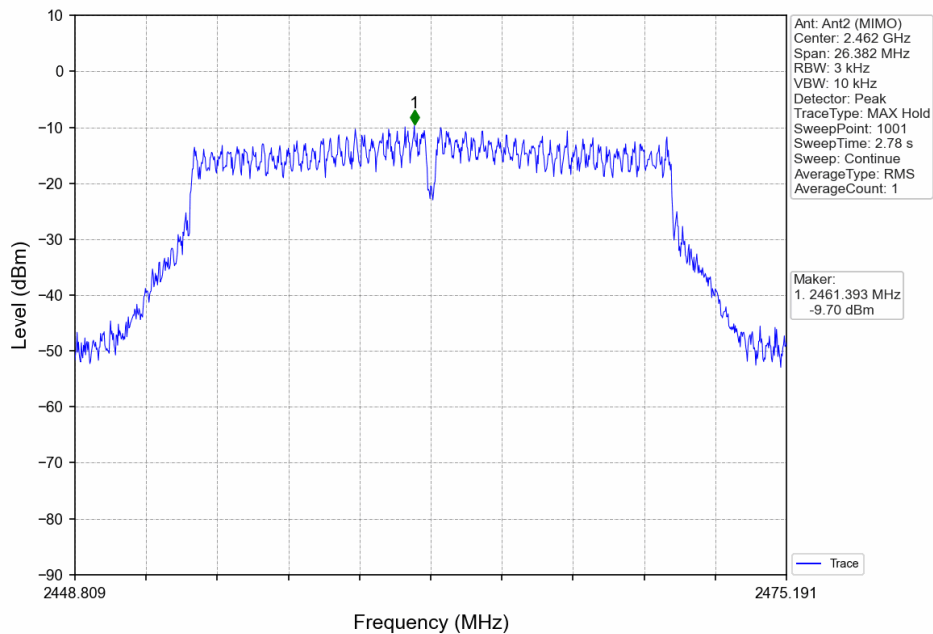
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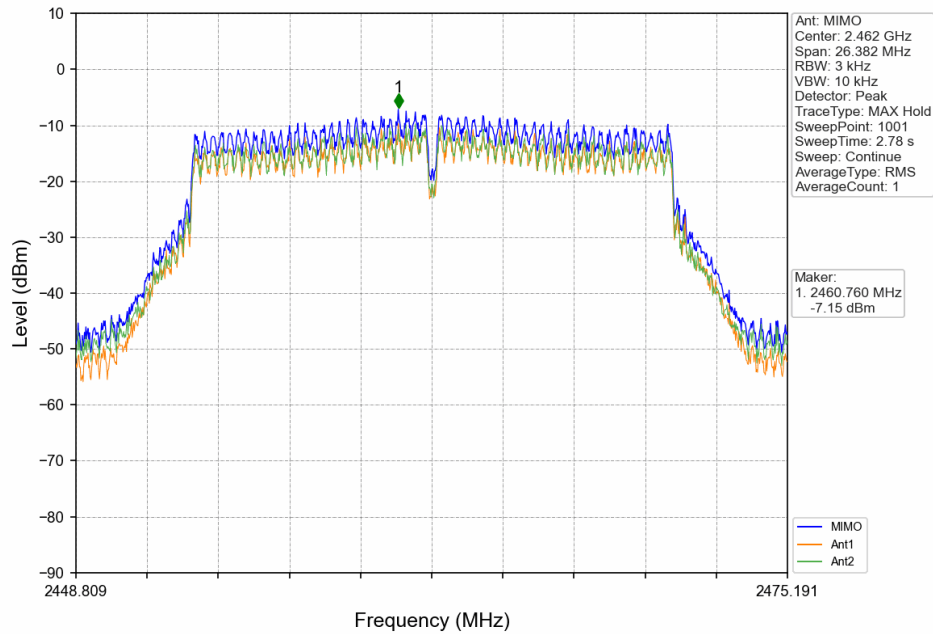
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



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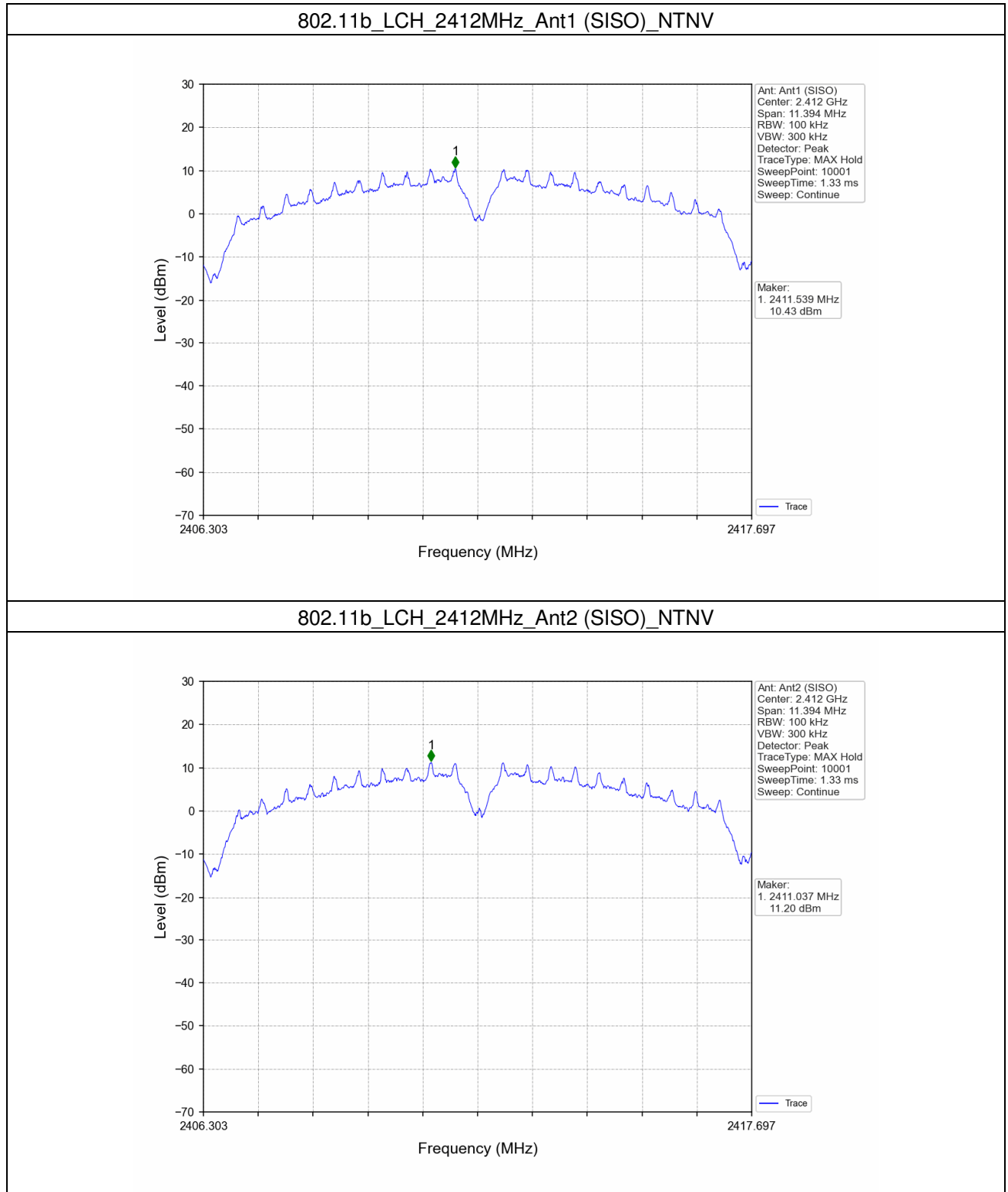
5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

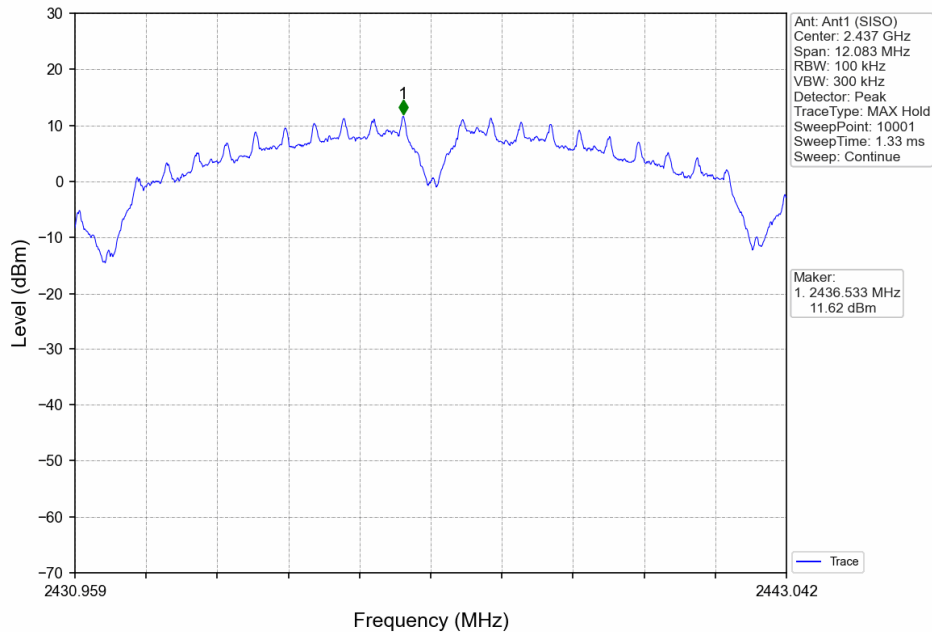
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	10.43
			2	11.20
		2437	1	11.62
			2	12.10
		2462	1	11.94
			2	12.76
802.11g	SISO	2412	1	3.06
			2	2.45
		2437	1	3.44
			2	2.71
		2462	1	3.52
			2	3.16
802.11n (HT20)	MIMO	2412	1	2.77
			2	2.52
		2437	1	2.88
			2	2.48
		2462	1	3.57
			2	3.42
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.				

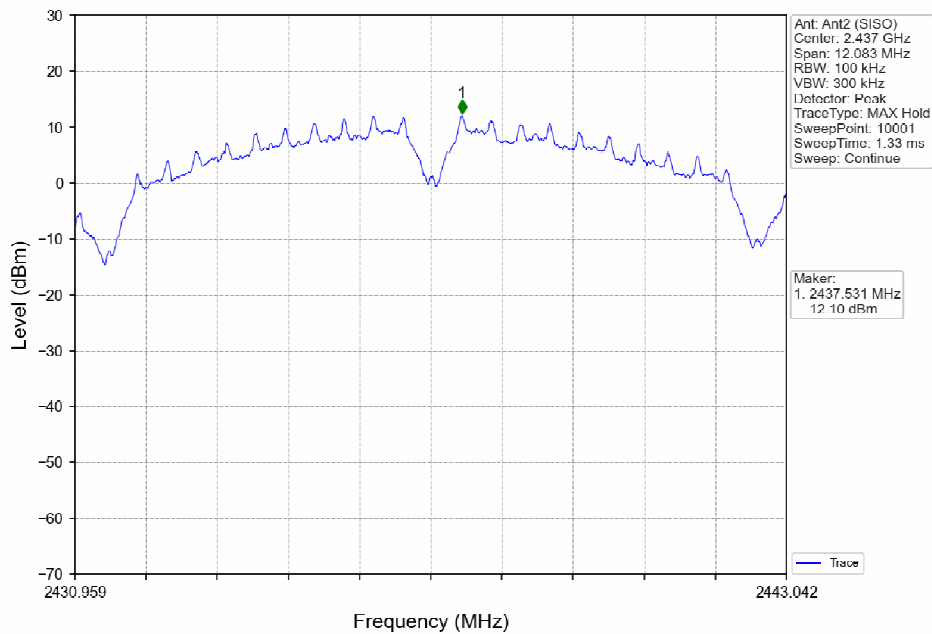
5.1.2 Test Graph



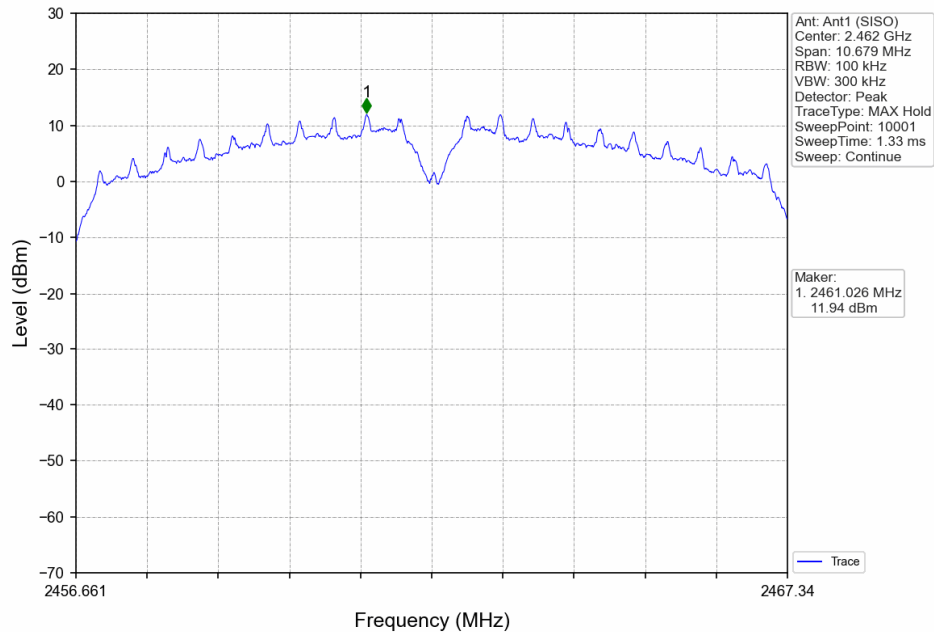
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



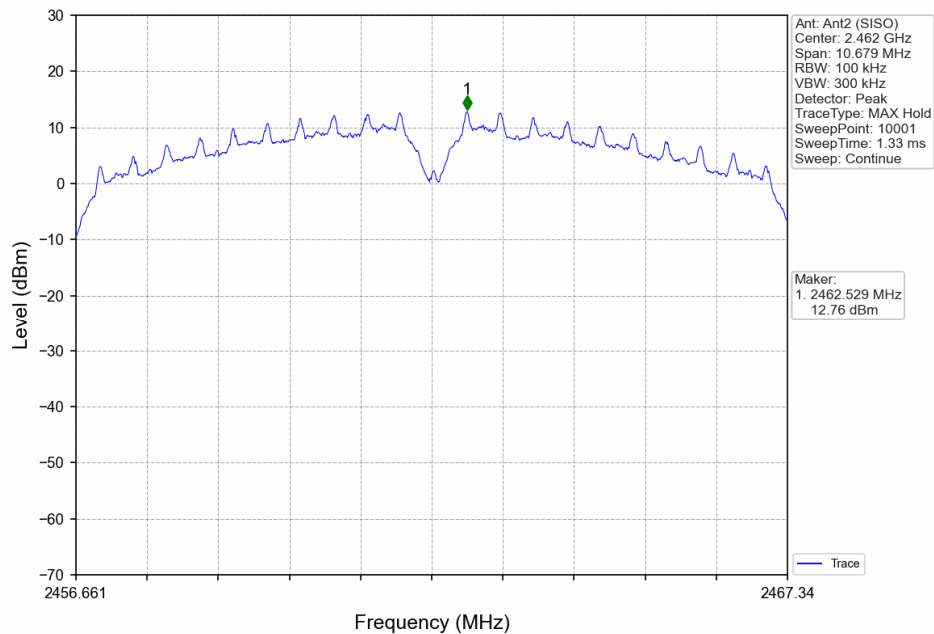
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



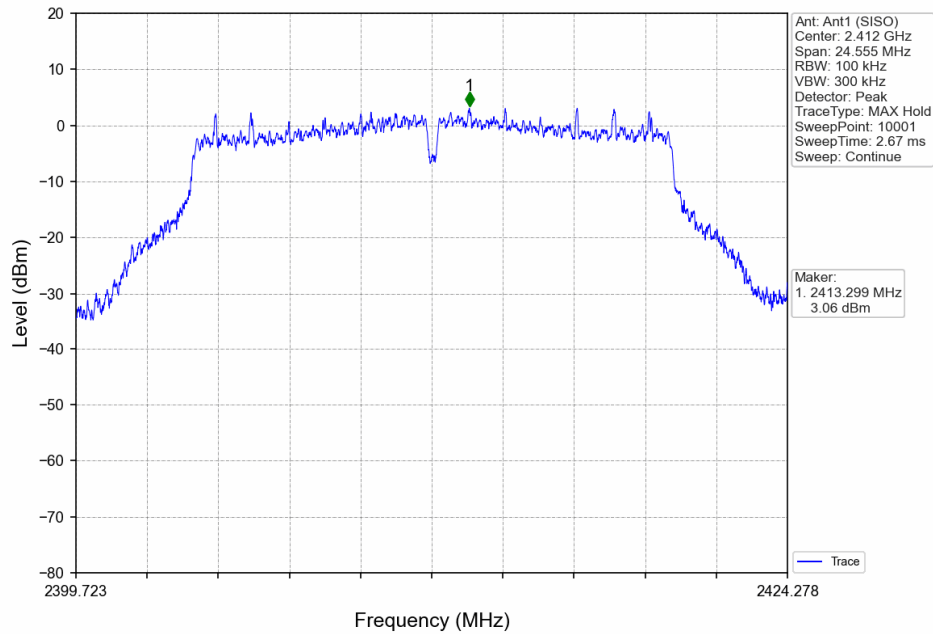
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



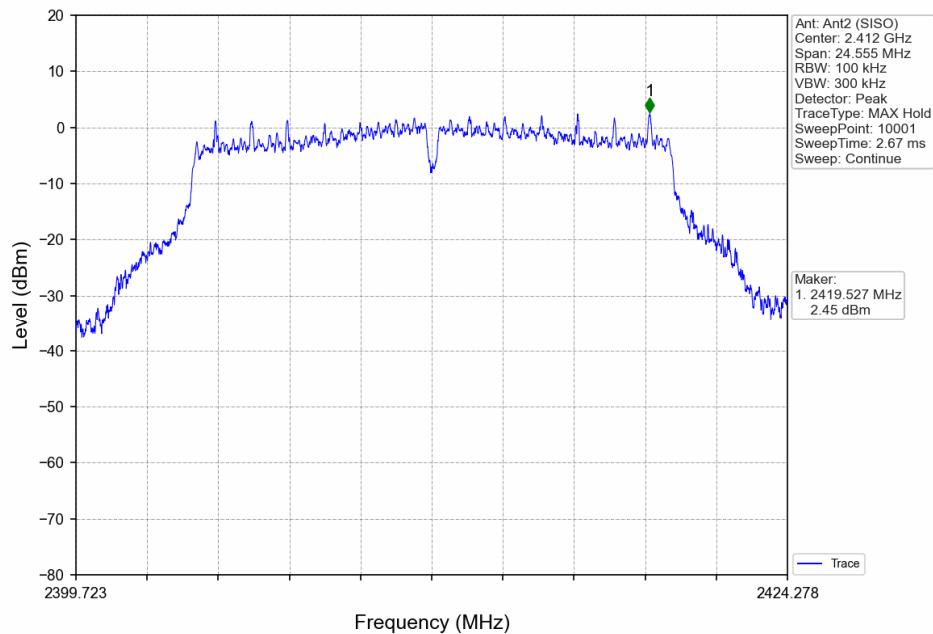
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



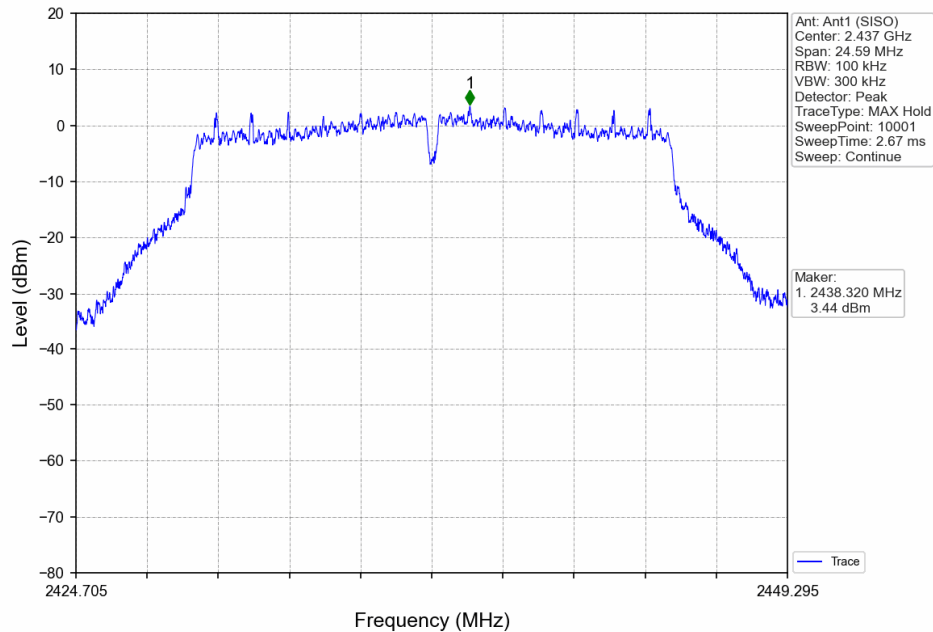
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



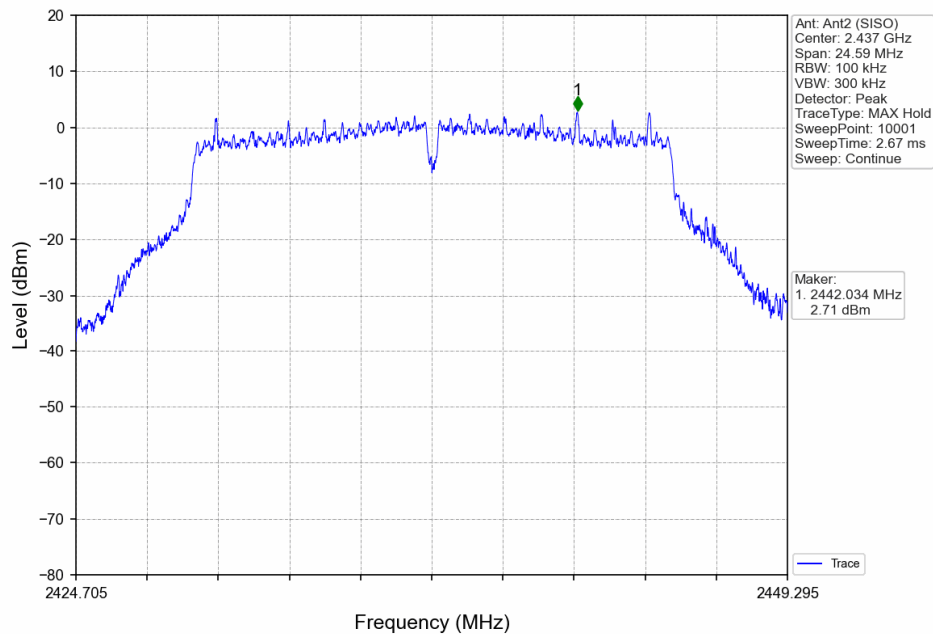
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



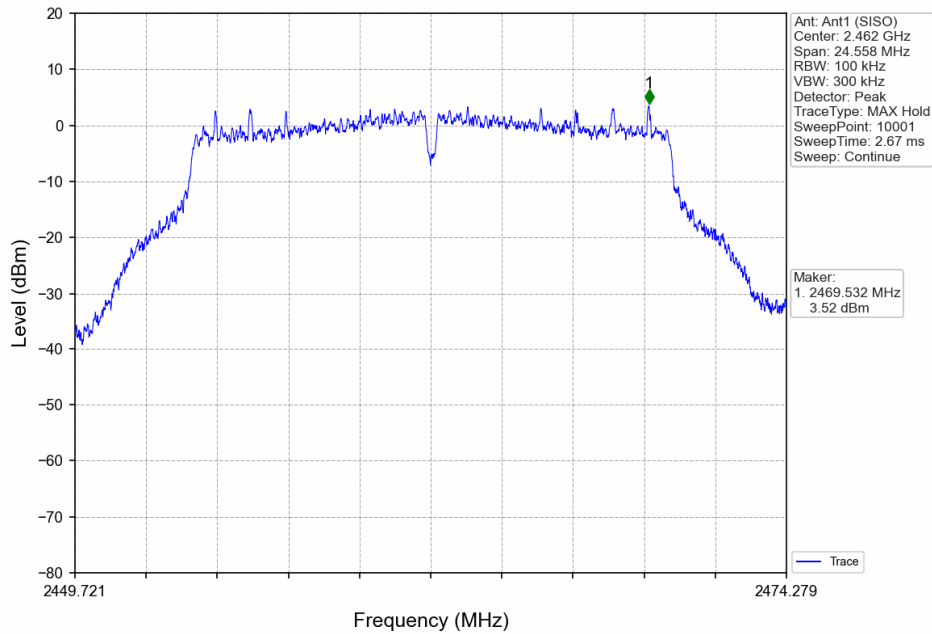
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



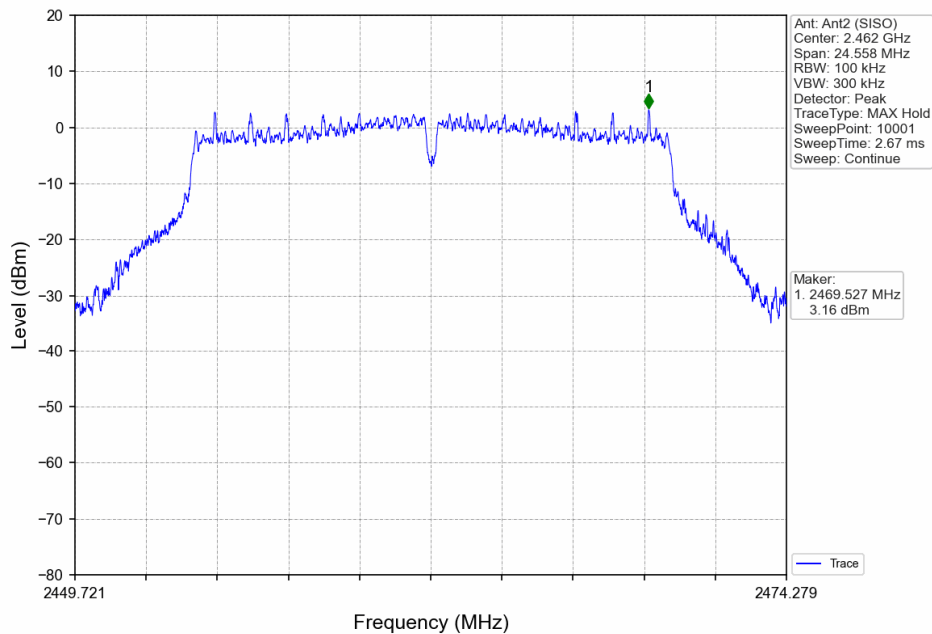
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



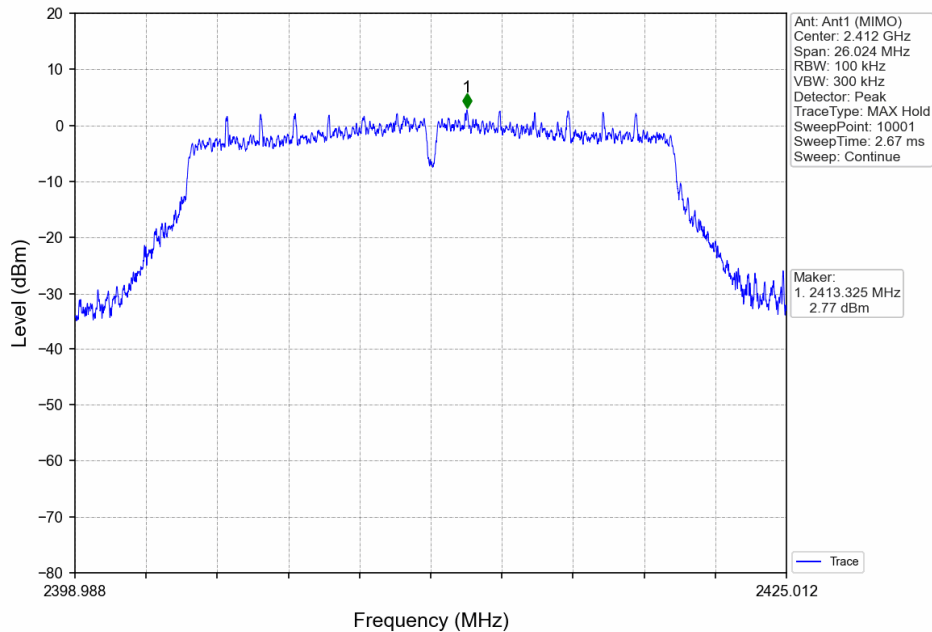
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



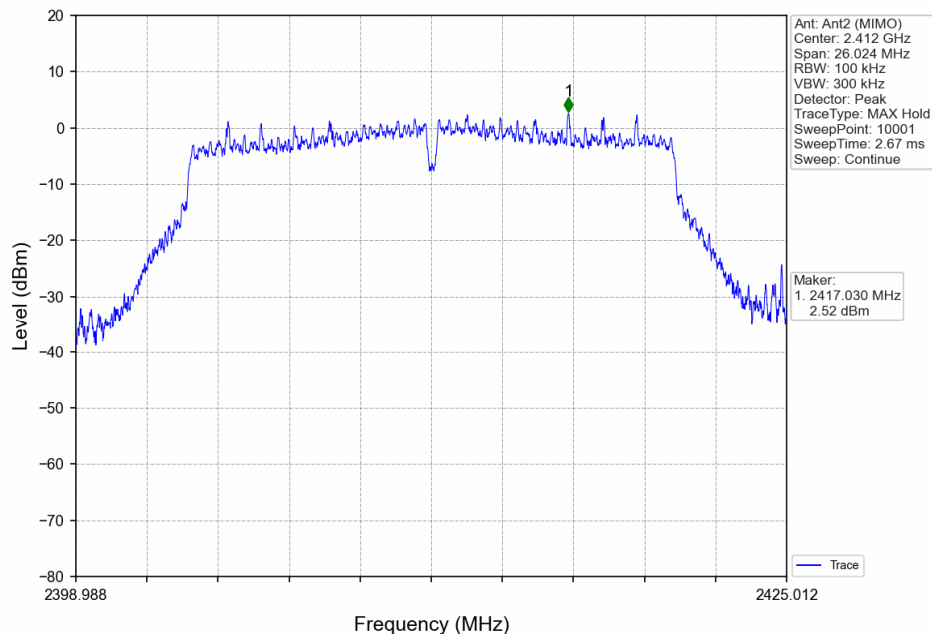
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



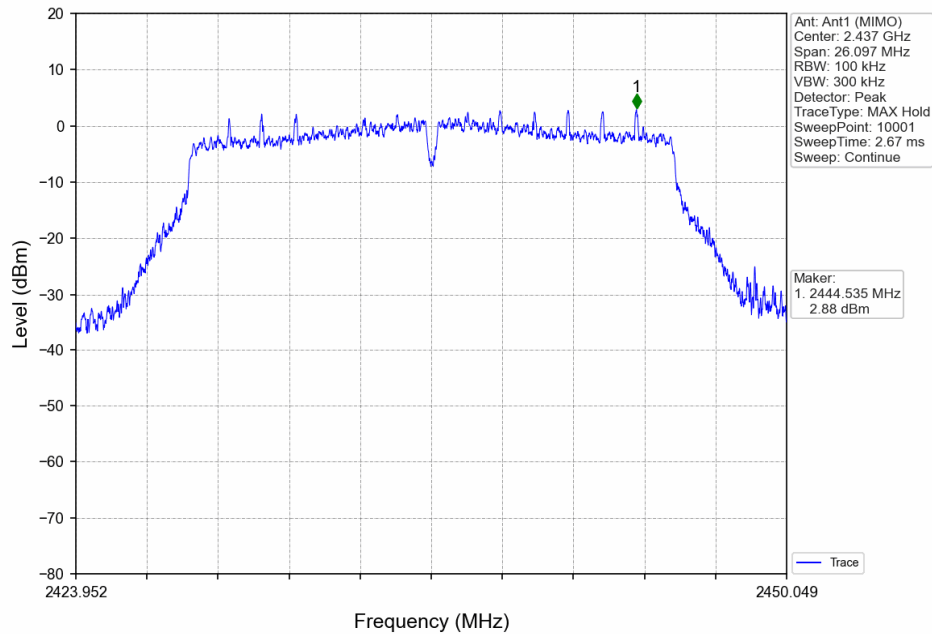
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



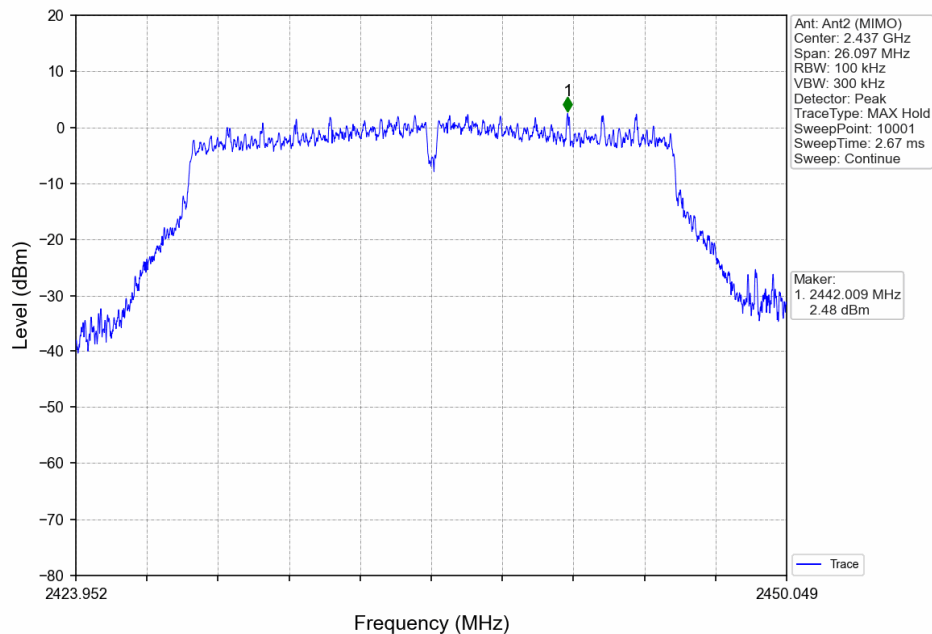
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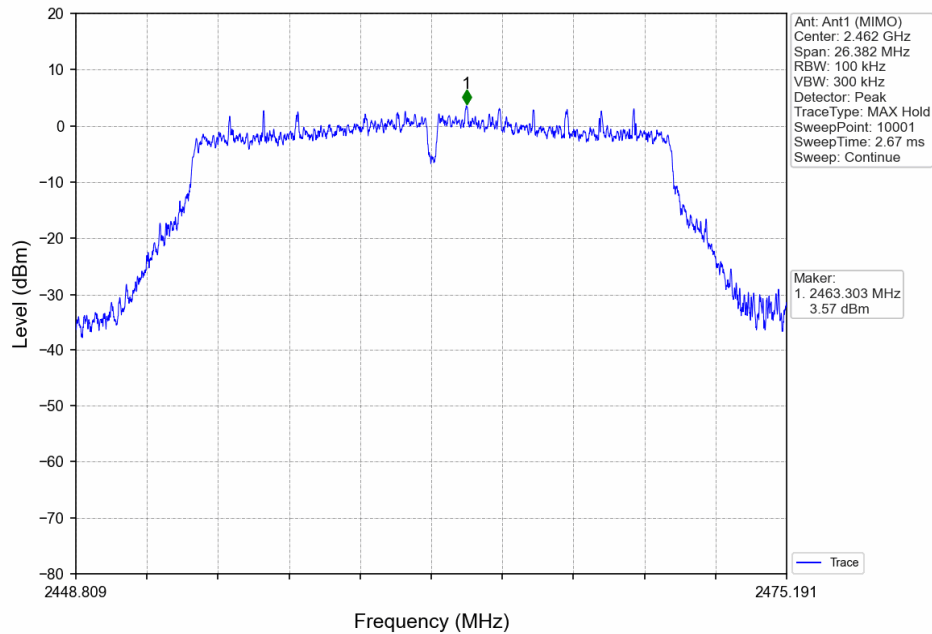
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



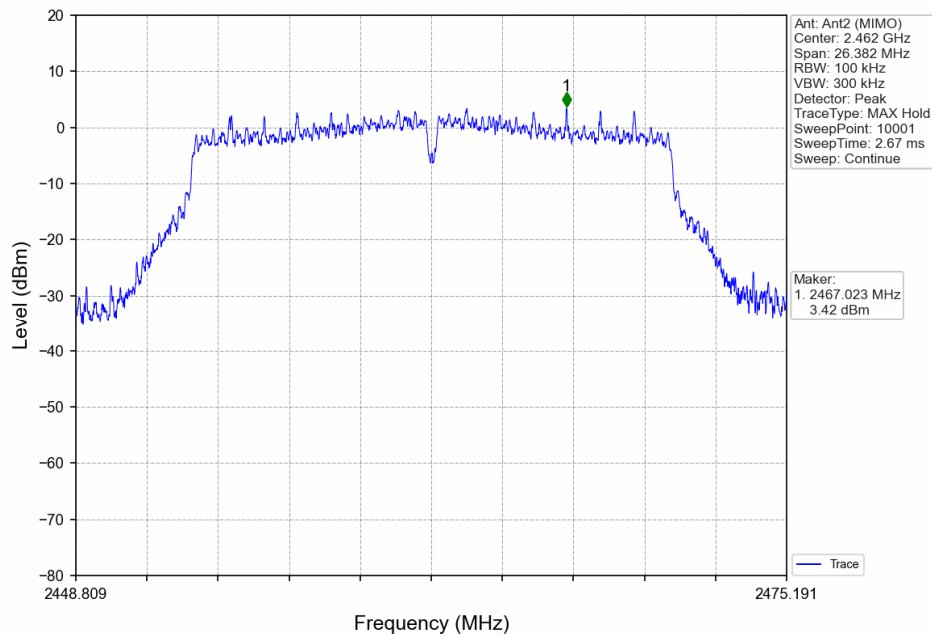
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



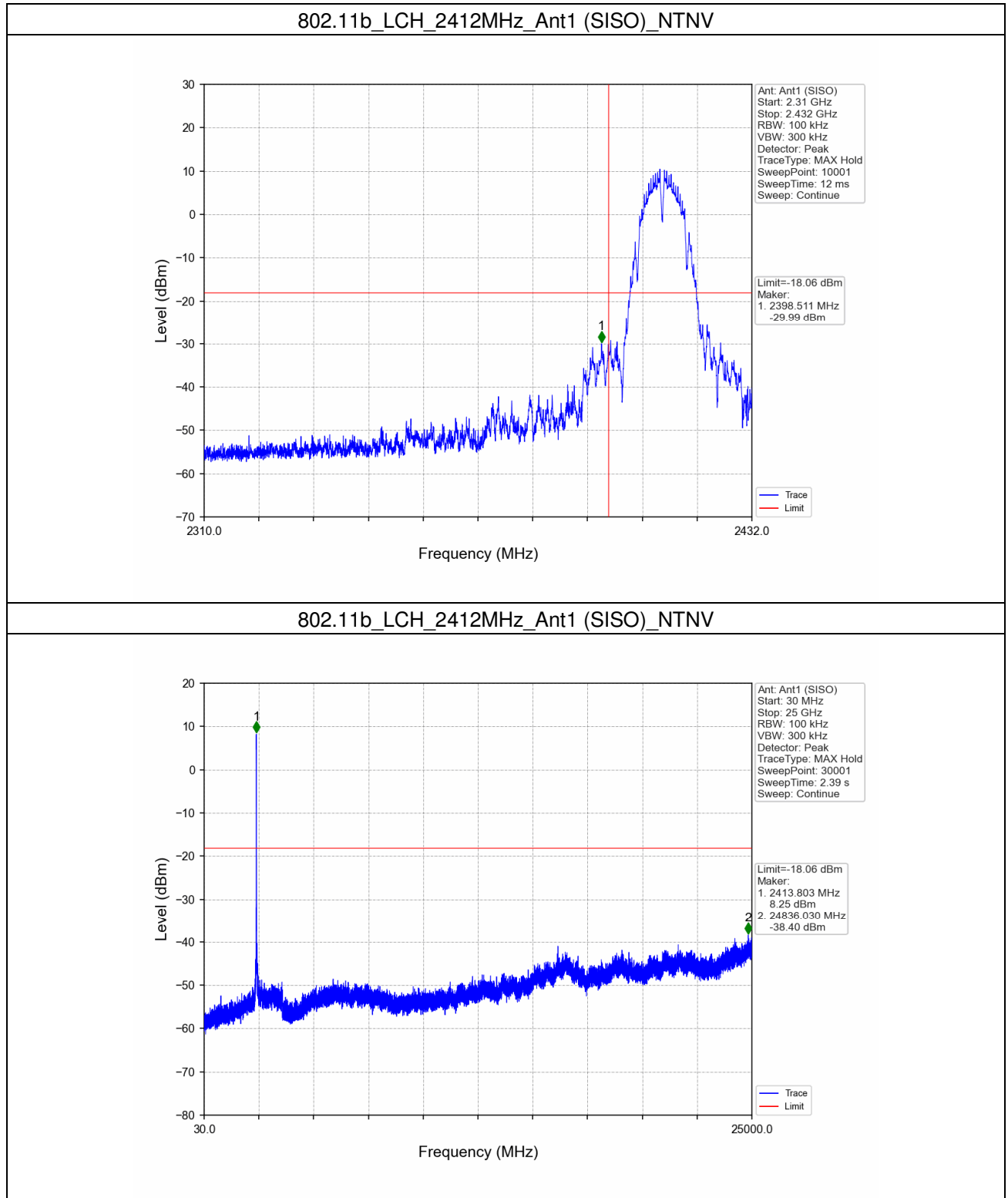
5.2 CSE

5.2.1 Test Result

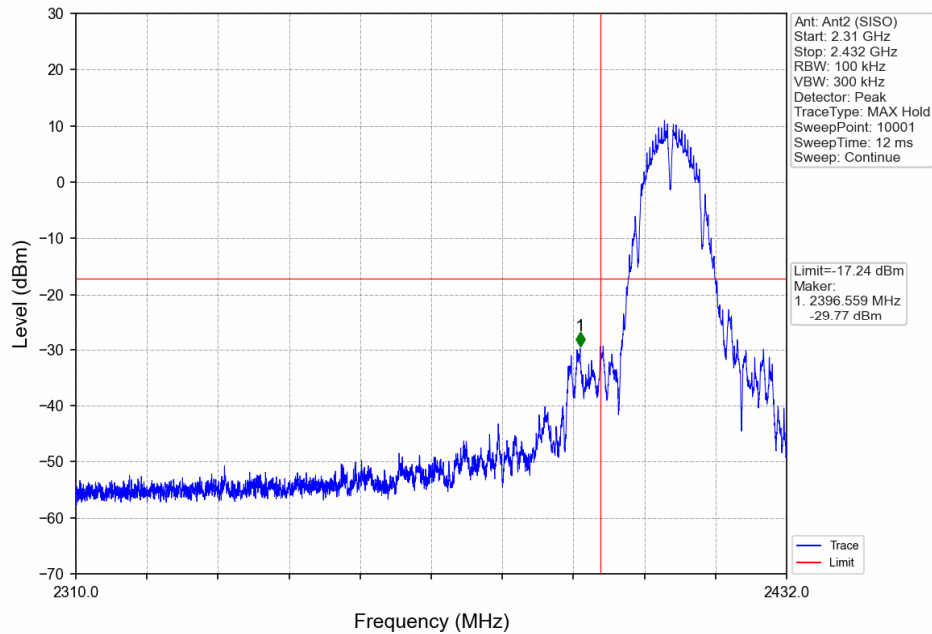
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	11.94	-18.06	Pass
			2	12.76	-17.24	Pass
		2437	1	11.94	-18.06	Pass
			2	12.76	-17.24	Pass
		2462	1	11.94	-18.06	Pass
			2	12.76	-17.24	Pass
802.11g	SISO	2412	1	3.52	-26.48	Pass
			2	3.16	-26.84	Pass
		2437	1	3.52	-26.48	Pass
			2	3.16	-26.84	Pass
		2462	1	3.52	-26.48	Pass
			2	3.16	-26.84	Pass
802.11n (HT20)	MIMO	2412	1	3.57	-26.43	Pass
			2	3.42	-26.58	Pass
		2437	1	3.57	-26.43	Pass
			2	3.42	-26.58	Pass
		2462	1	3.57	-26.43	Pass
			2	3.42	-26.58	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.

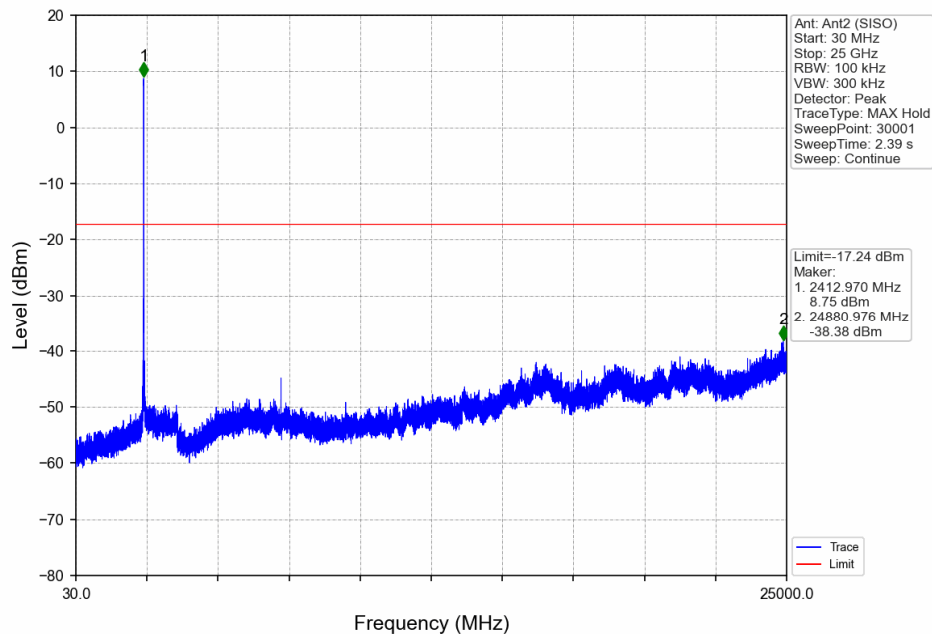
5.2.2 Test Graph



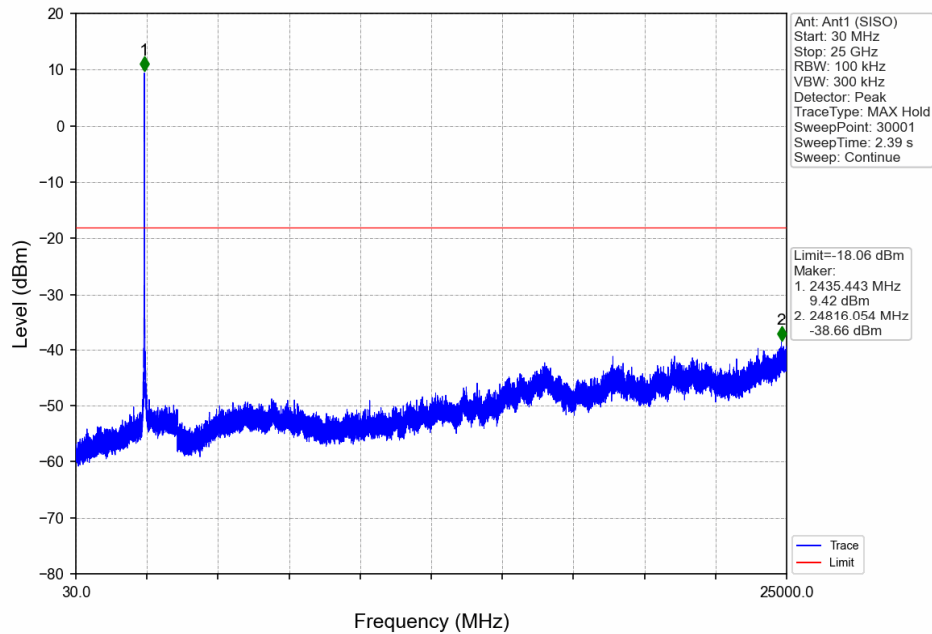
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



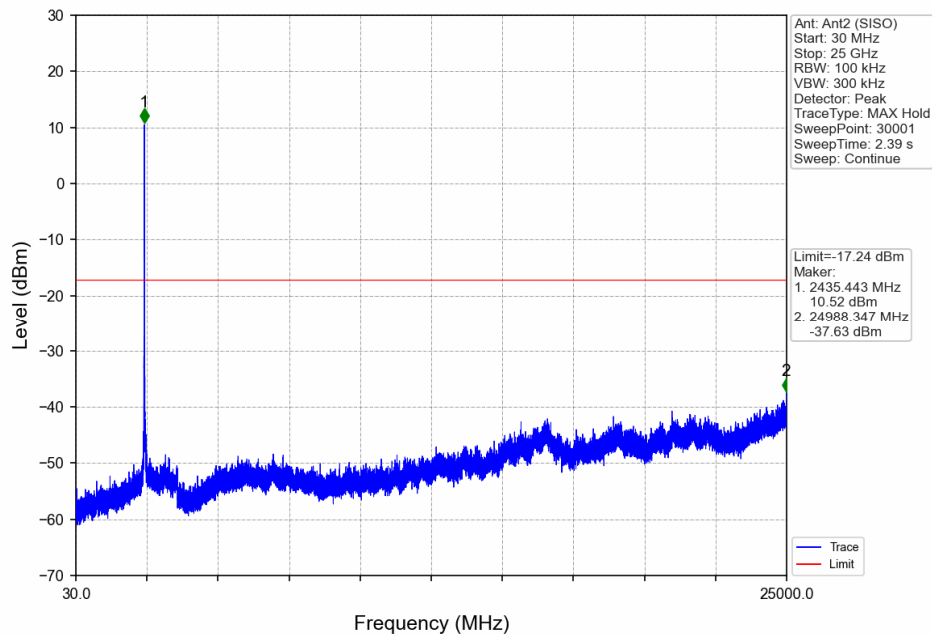
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



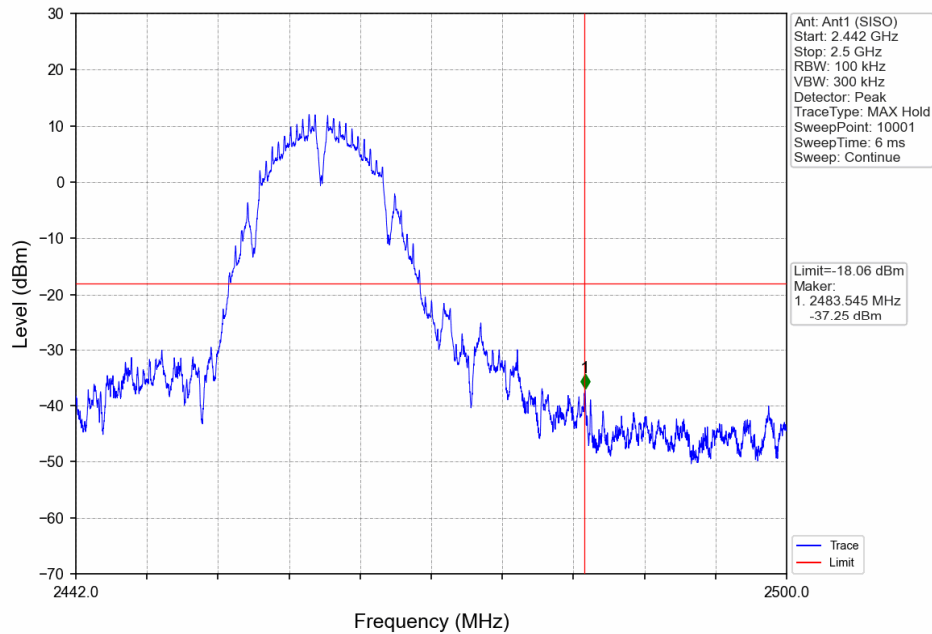
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



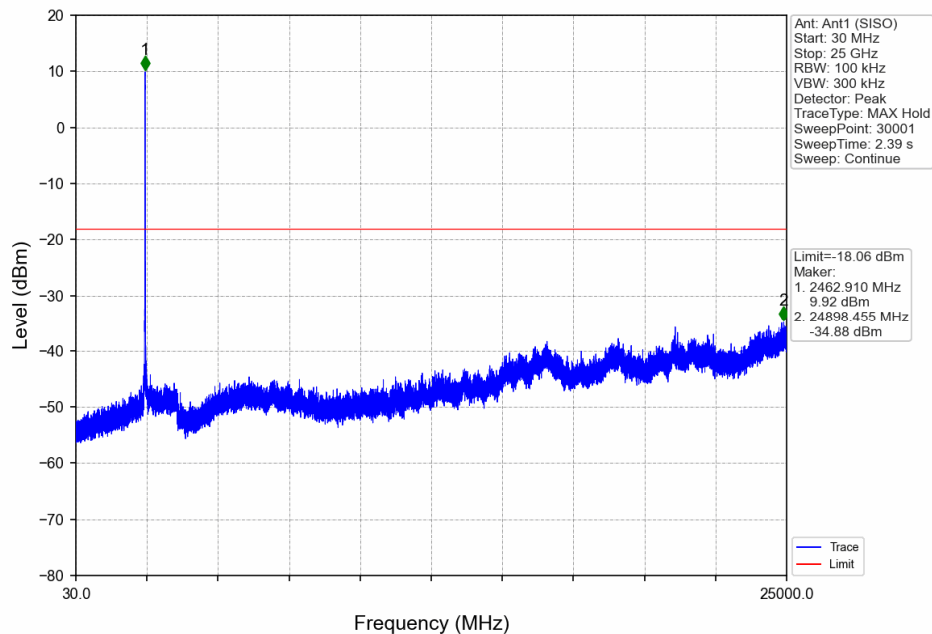
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



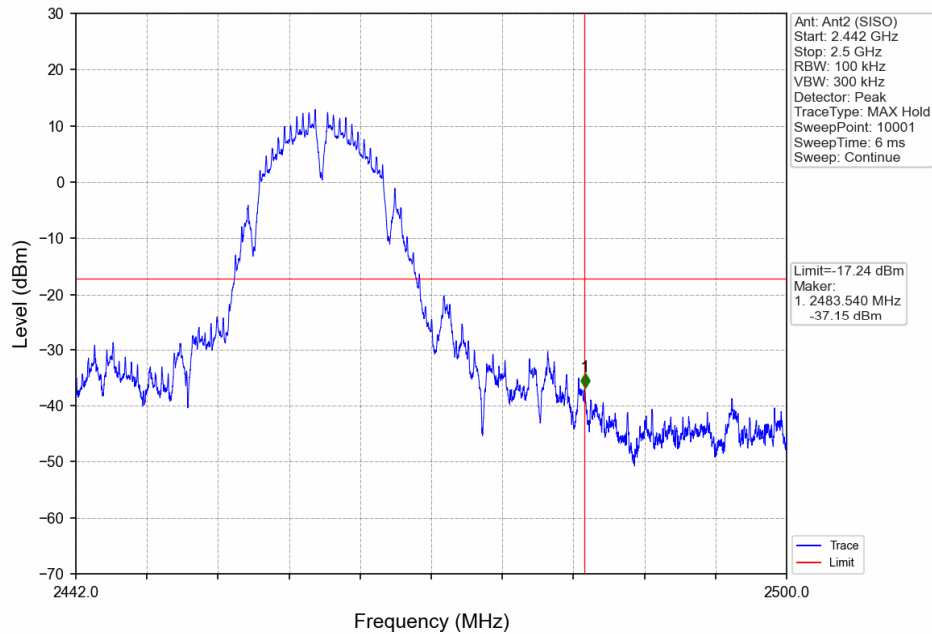
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



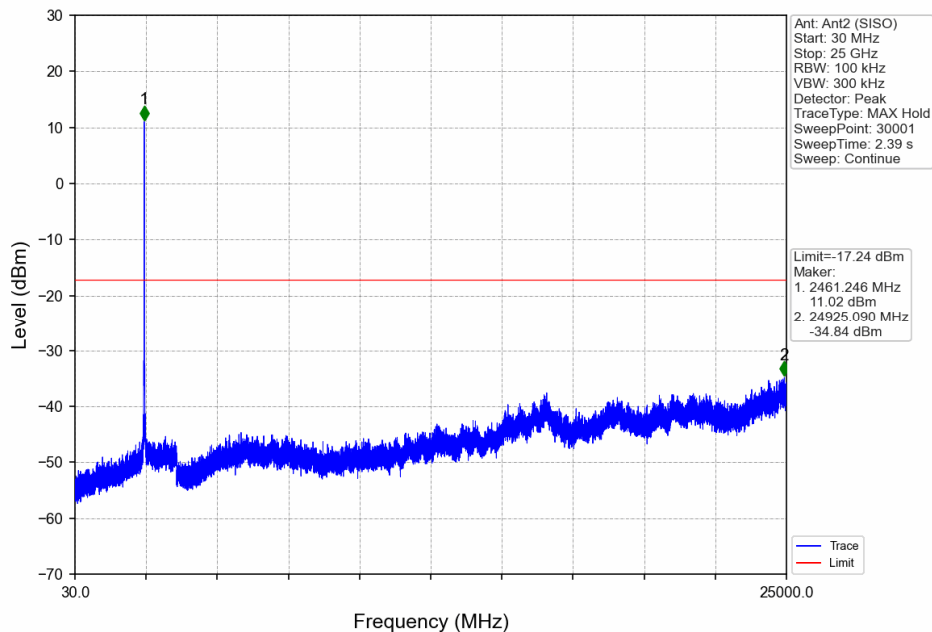
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



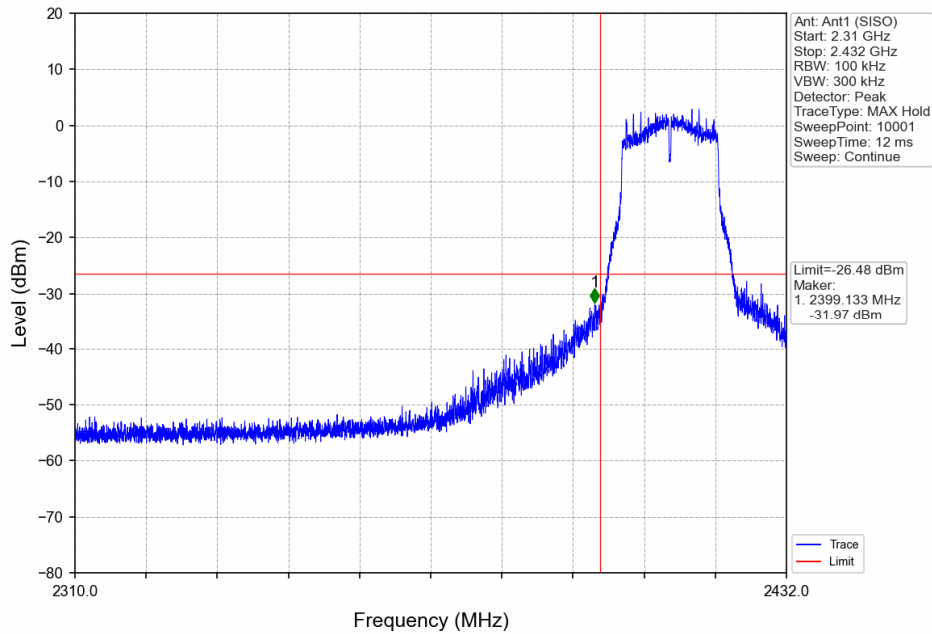
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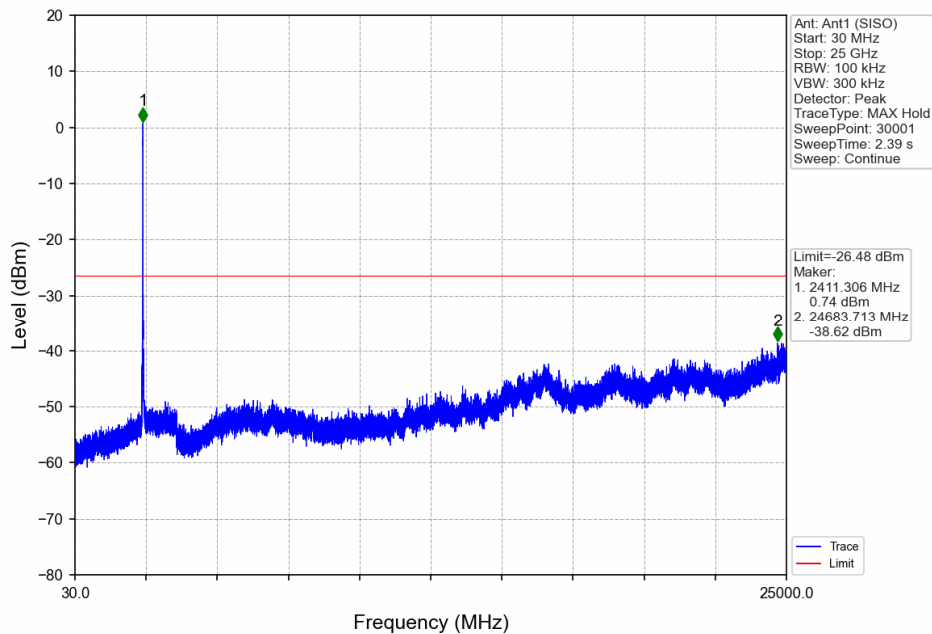
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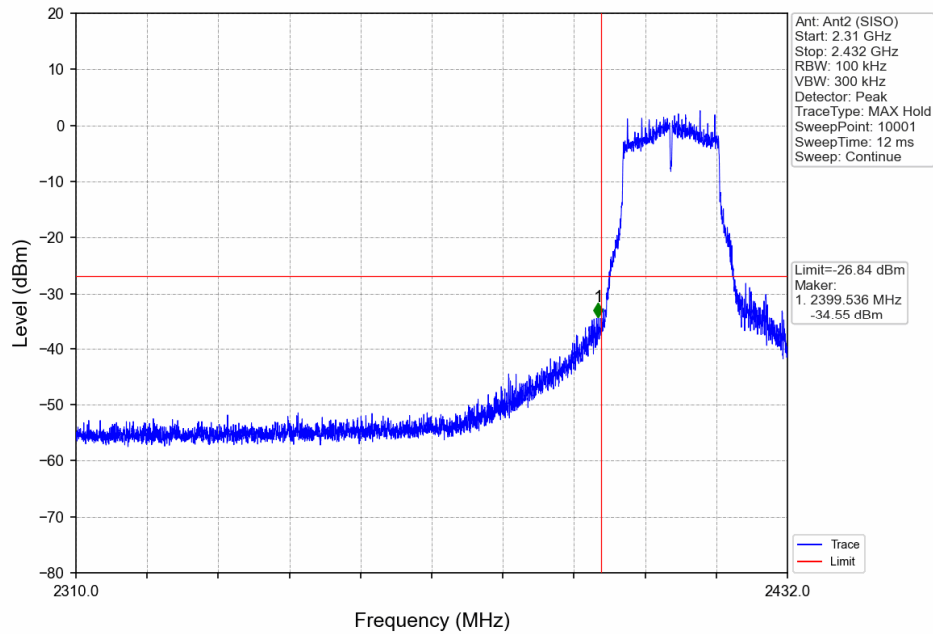
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



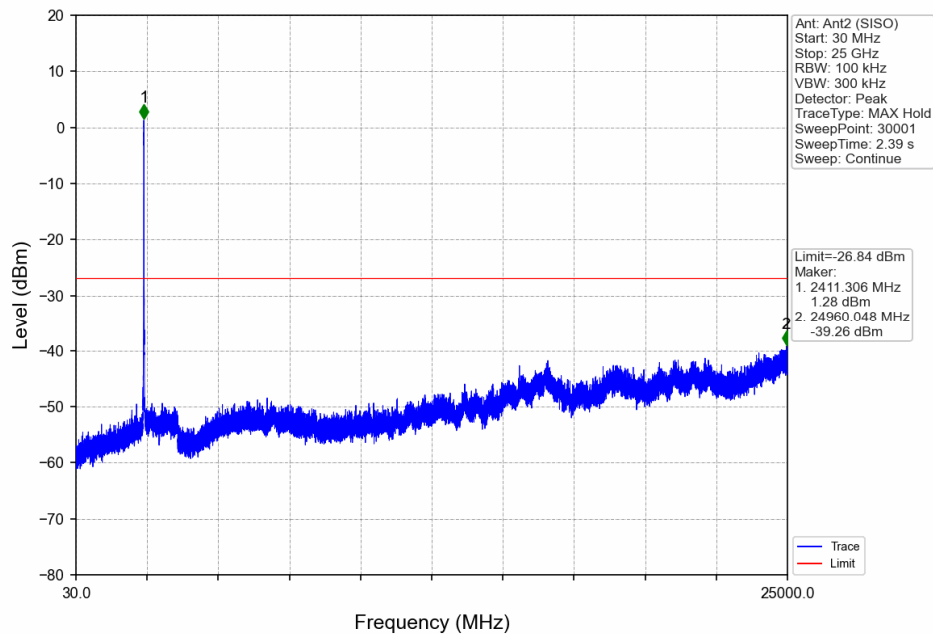
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



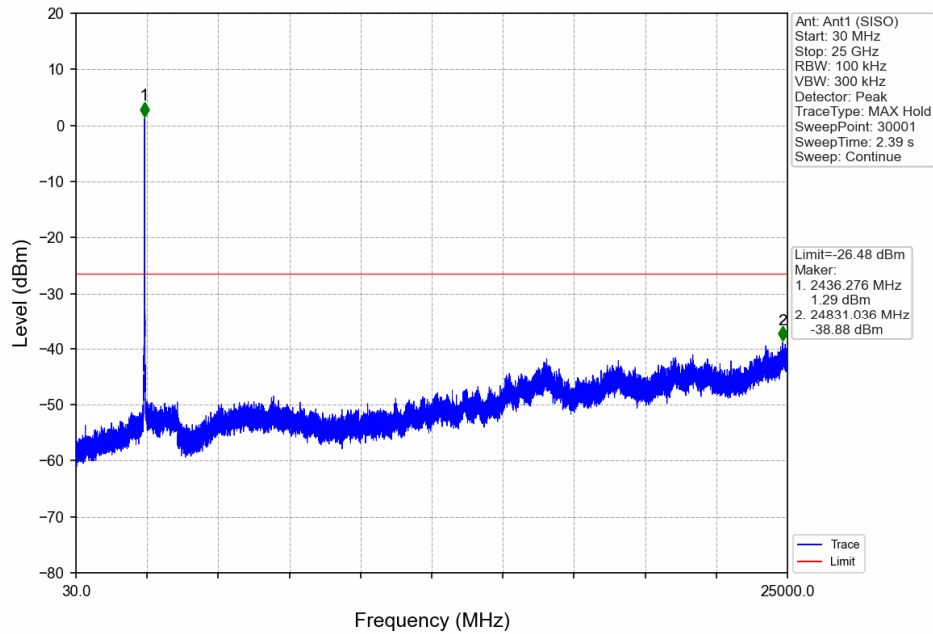
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



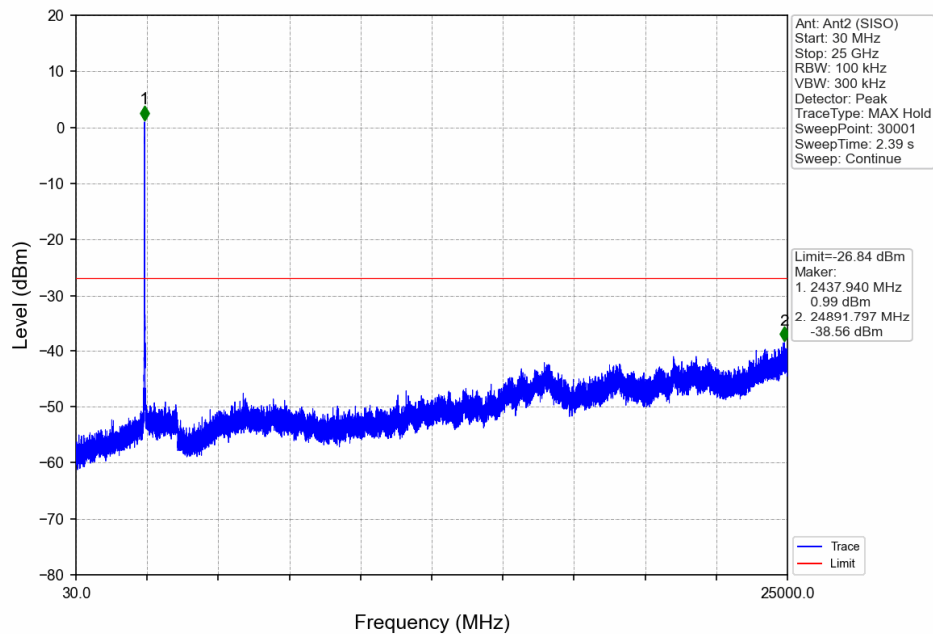
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



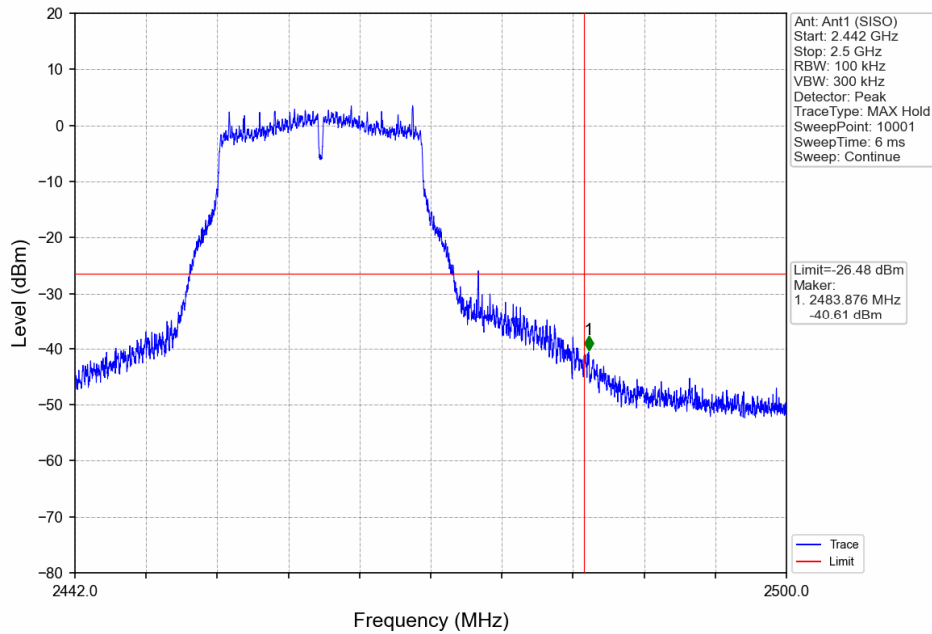
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



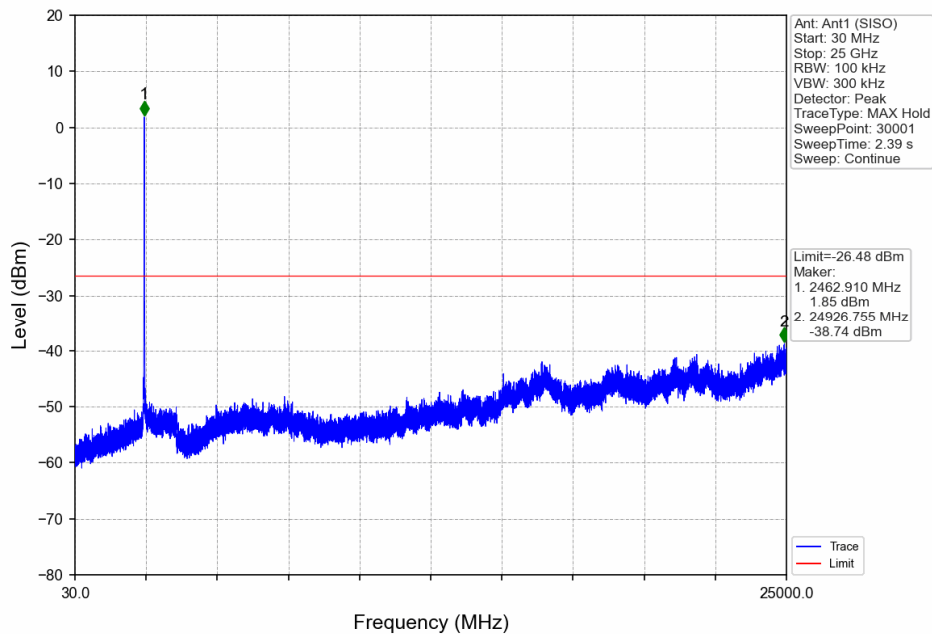
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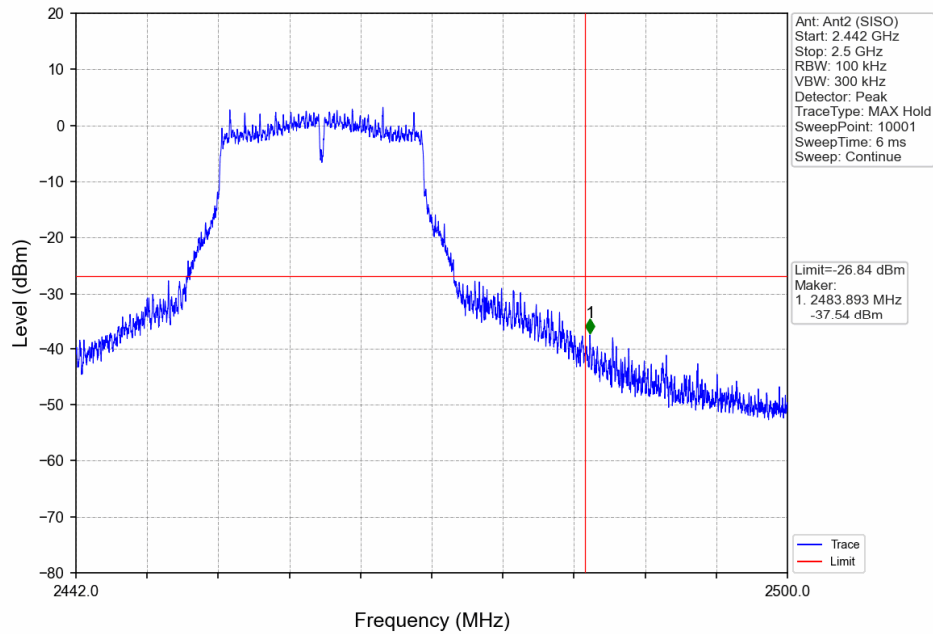
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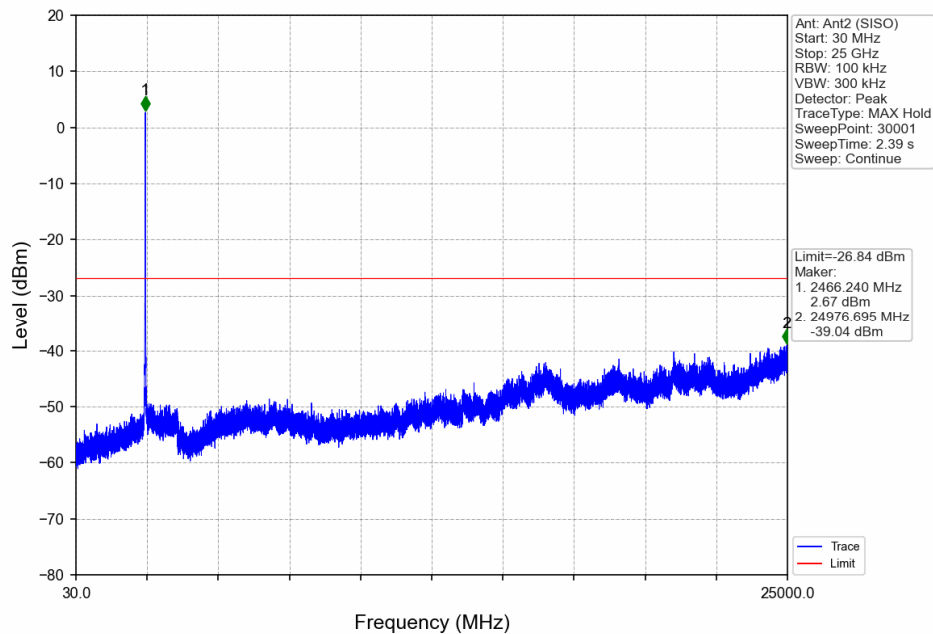
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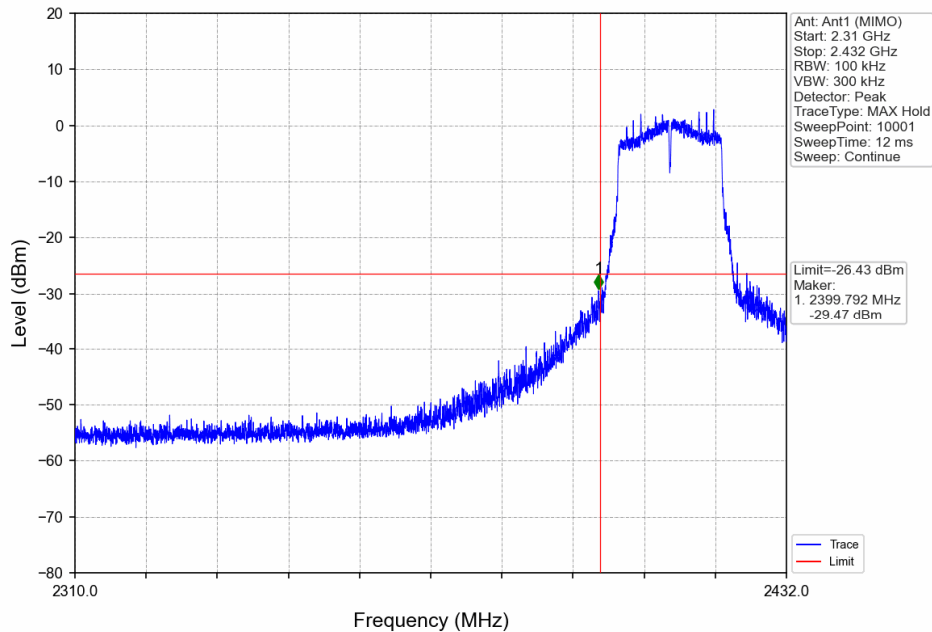
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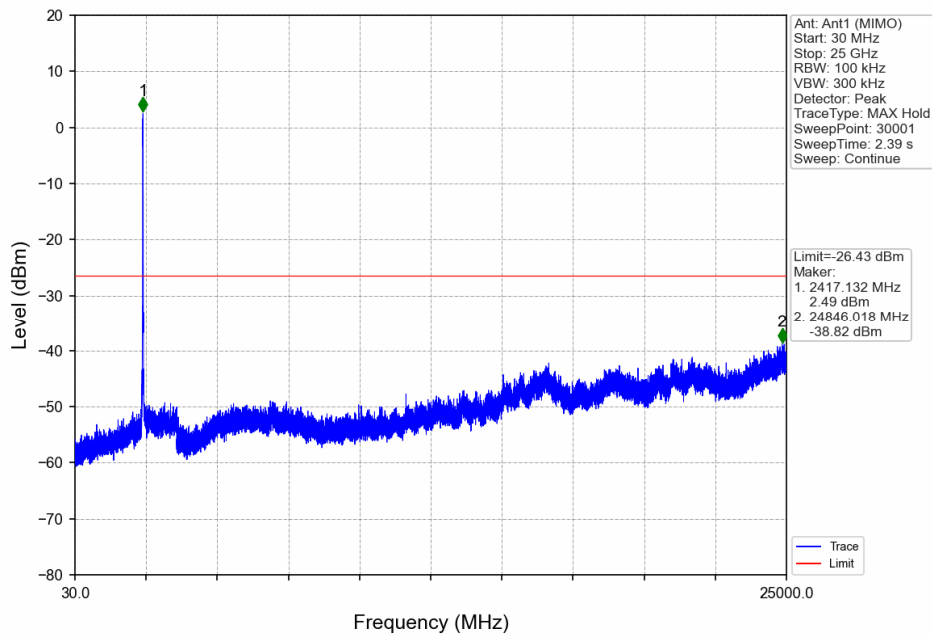
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



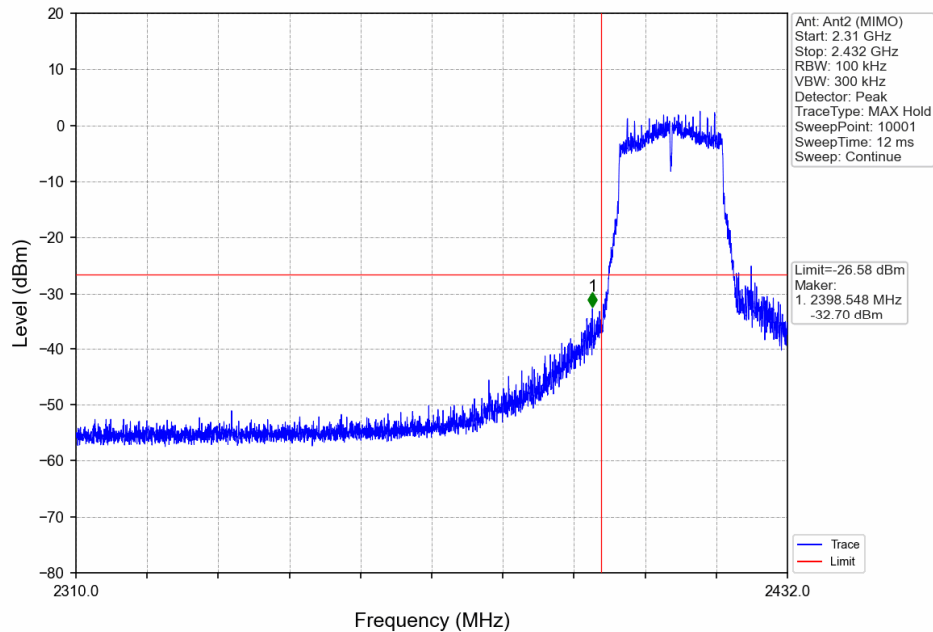
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



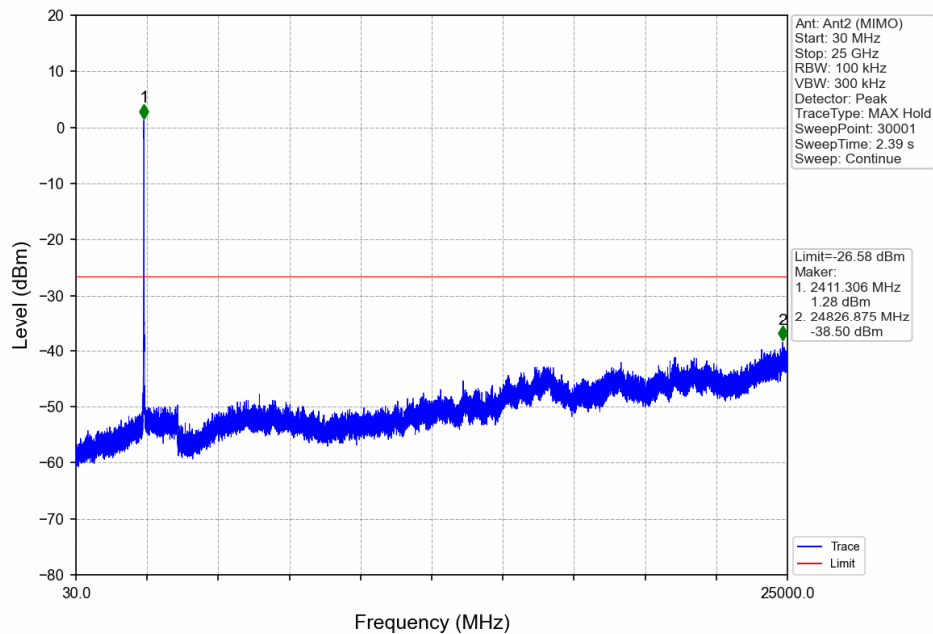
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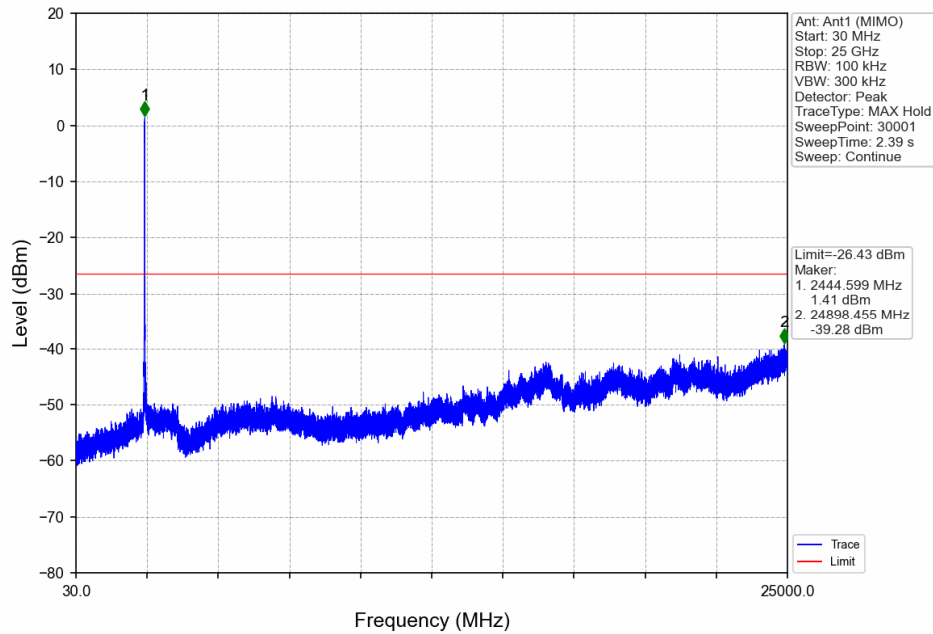
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



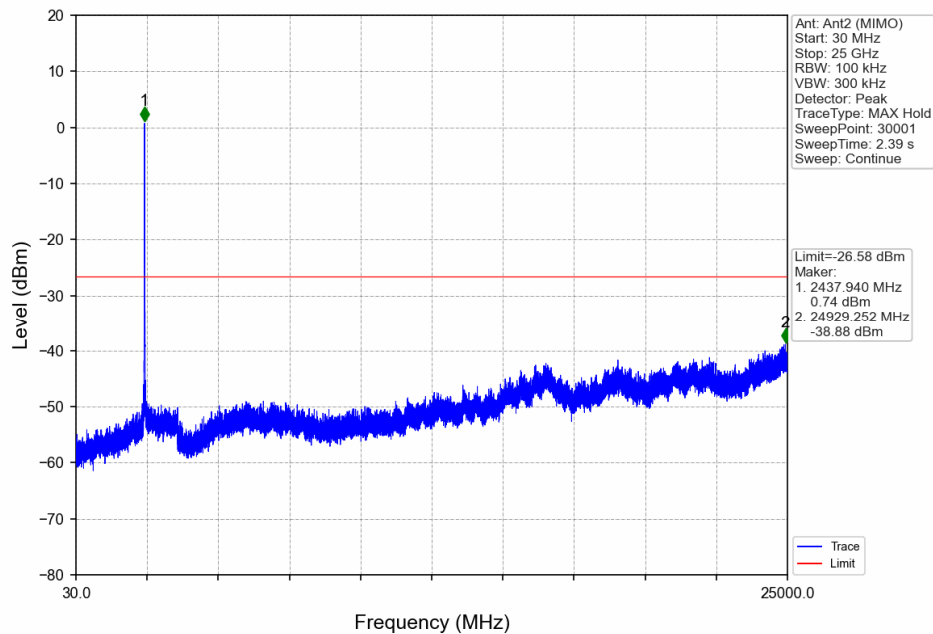
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



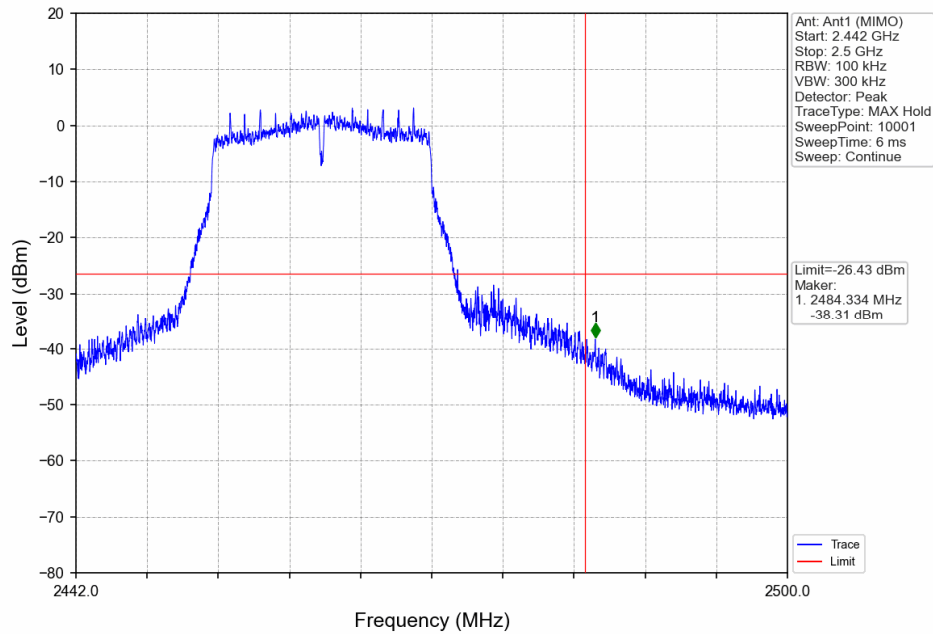
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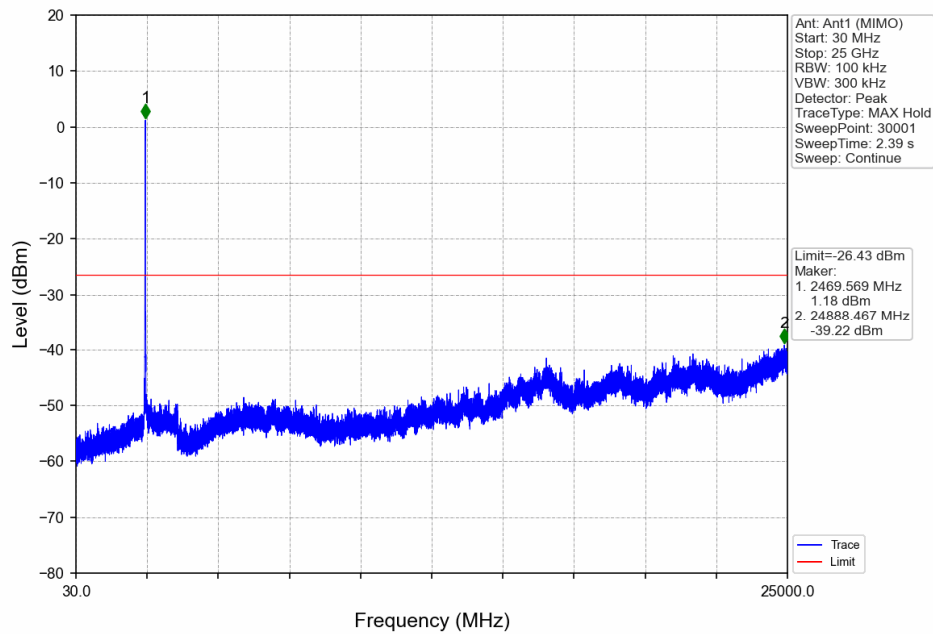
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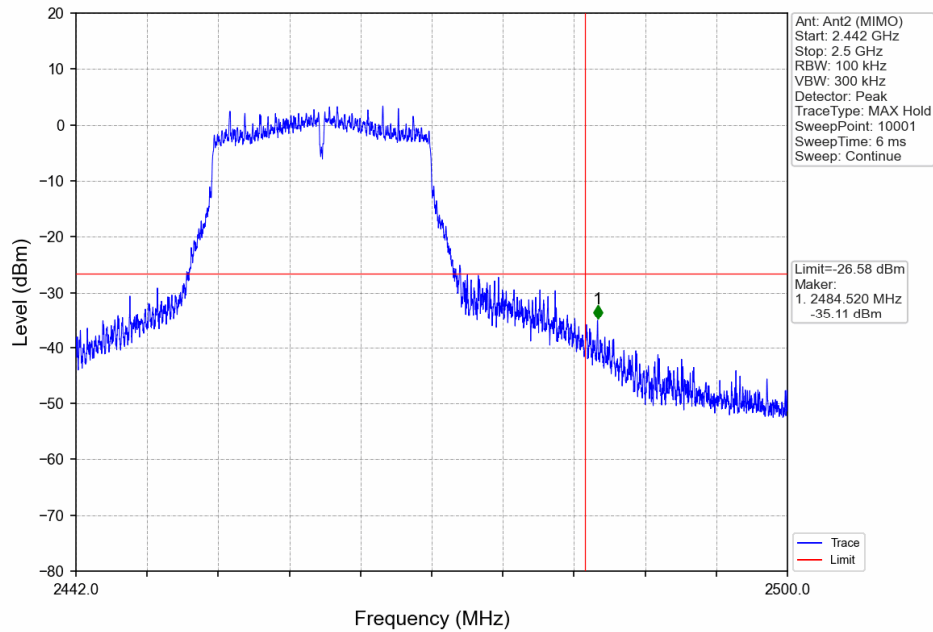
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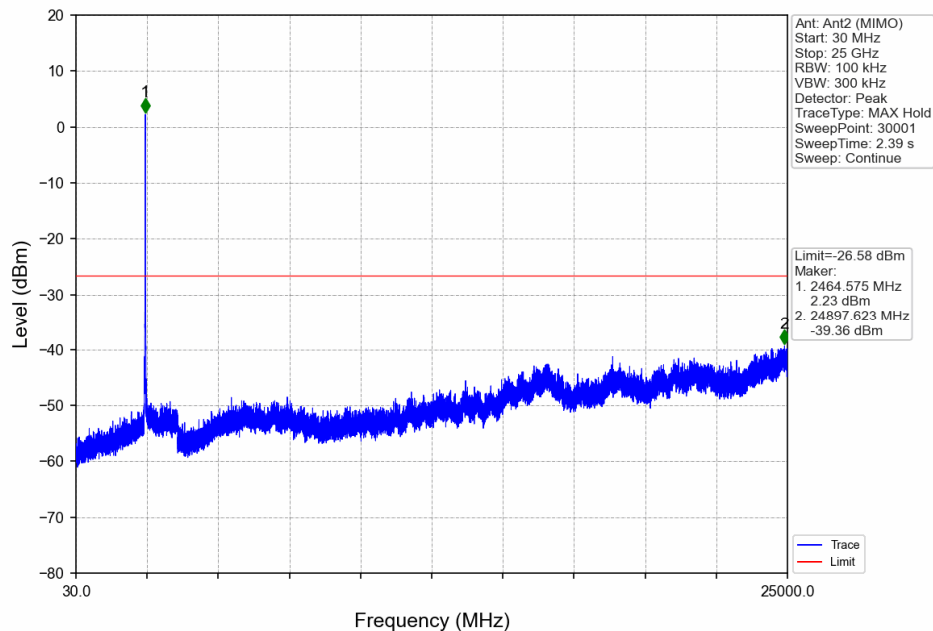
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



- End of the Report -