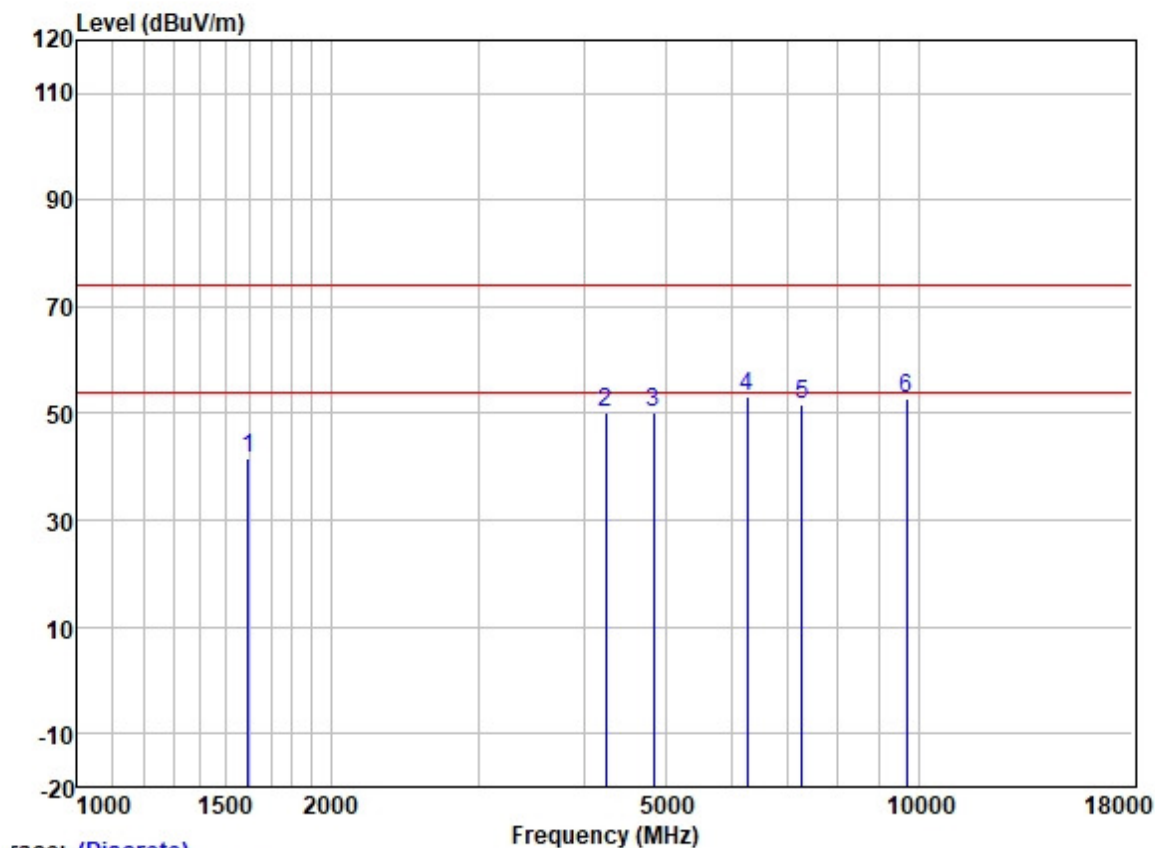
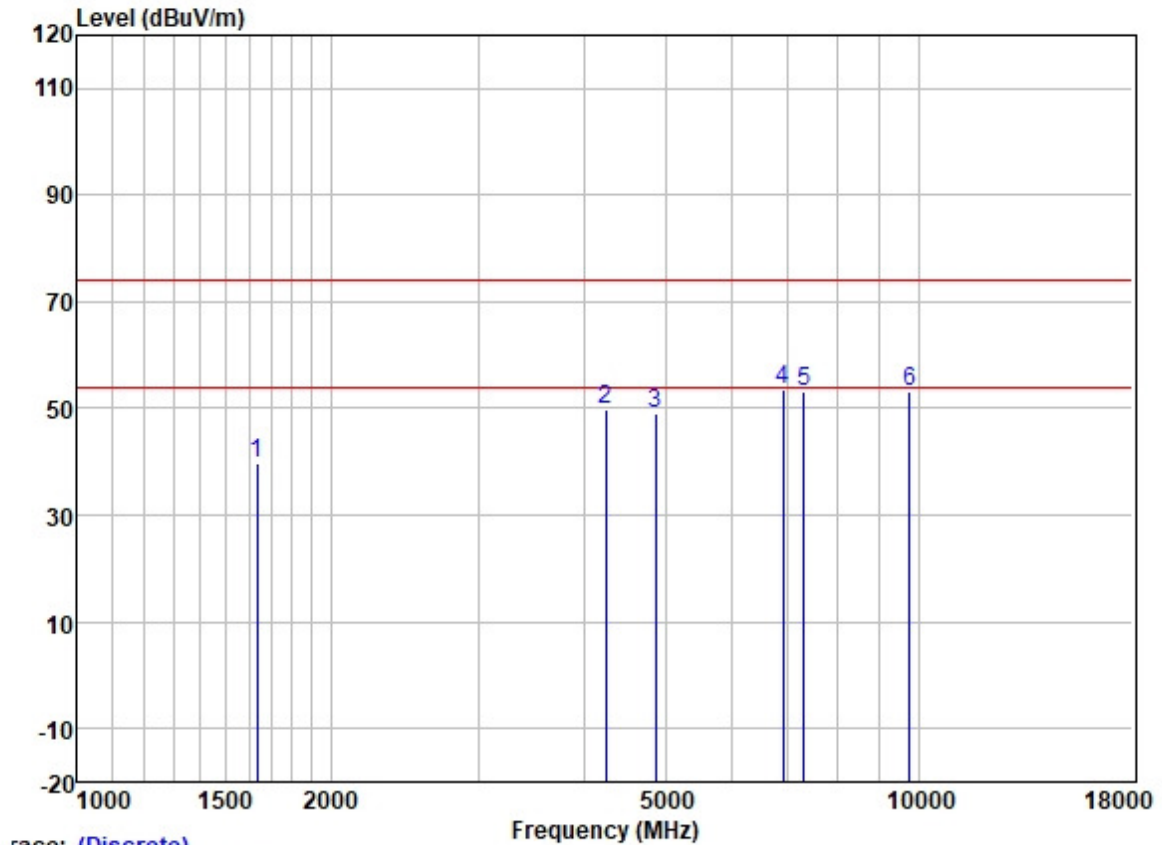


Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



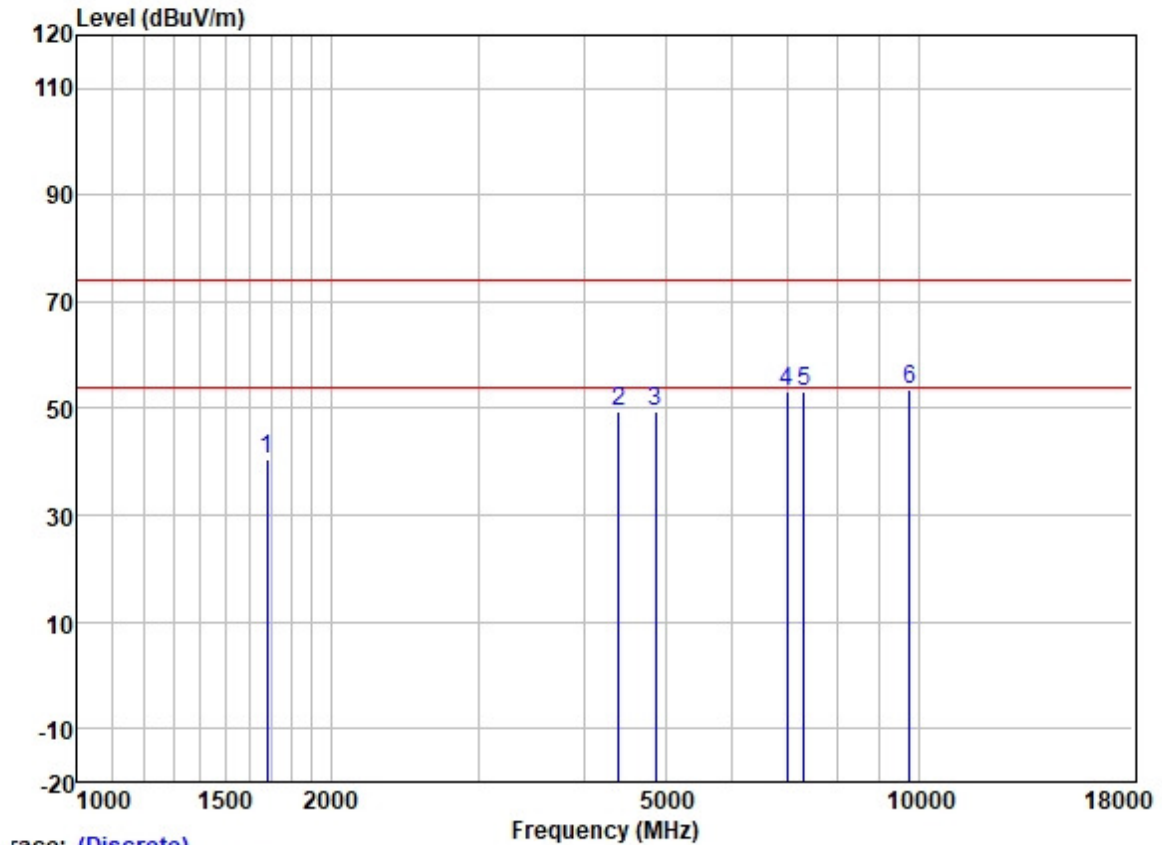
		Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1		1597.181	51.03	25.58	2.80	37.98	41.43	74.00	-32.57	VERTICAL	Peak
2		4242.641	52.07	30.30	4.62	36.81	50.18	74.00	-23.82	VERTICAL	Peak
3		4844.000	49.98	31.50	5.45	36.84	50.09	74.00	-23.91	VERTICAL	Peak
4		6249.464	50.85	33.20	6.02	36.95	53.12	74.00	-20.88	VERTICAL	Peak
5		7266.000	47.40	35.78	6.06	37.41	51.83	74.00	-22.17	VERTICAL	Peak
6		9688.000	44.90	38.44	7.04	37.42	52.96	74.00	-21.04	VERTICAL	Peak

Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



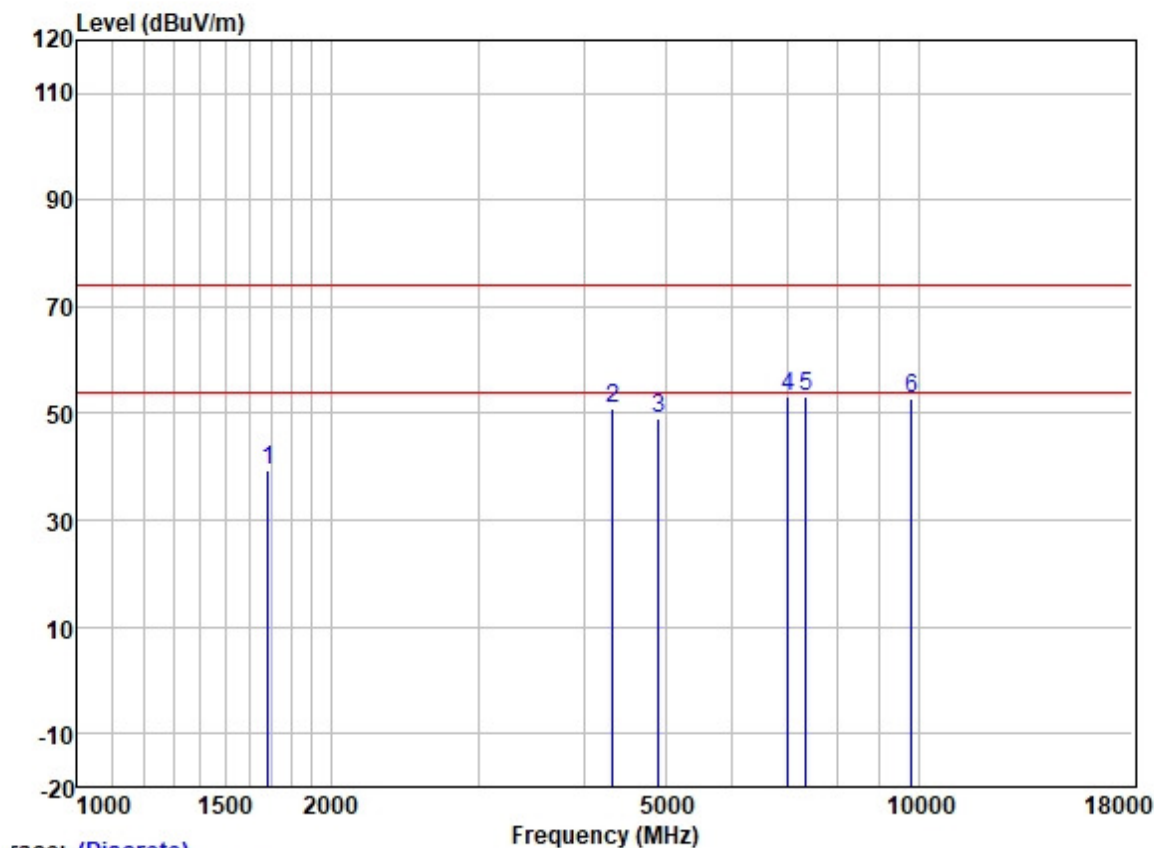
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1634.543	49.19	25.62	2.80	37.95	39.66	74.00	-34.34	HORIZONTAL	Peak
2	4242.641	51.88	30.30	4.62	36.81	49.99	74.00	-24.01	HORIZONTAL	Peak
3	4874.000	48.86	31.54	5.50	36.84	49.06	74.00	-24.94	HORIZONTAL	Peak
4	6894.806	50.24	34.85	5.81	37.18	53.72	74.00	-20.28	HORIZONTAL	Peak
5	7311.000	48.49	35.93	6.11	37.42	53.11	74.00	-20.89	HORIZONTAL	Peak
6	9748.000	45.21	38.50	7.02	37.41	53.32	74.00	-20.68	HORIZONTAL	Peak

Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



	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	1682.477	49.79	25.68	2.80	37.91	40.36	74.00	-33.64	VERTICAL	Peak
2	4405.090	51.04	30.68	4.70	36.81	49.61	74.00	-24.39	VERTICAL	Peak
3	4874.000	49.23	31.54	5.50	36.84	49.43	74.00	-24.57	VERTICAL	Peak
4	6974.982	49.44	34.97	5.81	37.23	52.99	74.00	-21.01	VERTICAL	Peak
5	7311.000	48.38	35.93	6.11	37.42	53.00	74.00	-21.00	VERTICAL	Peak
6	9748.000	45.30	38.50	7.02	37.41	53.41	74.00	-20.59	VERTICAL	Peak

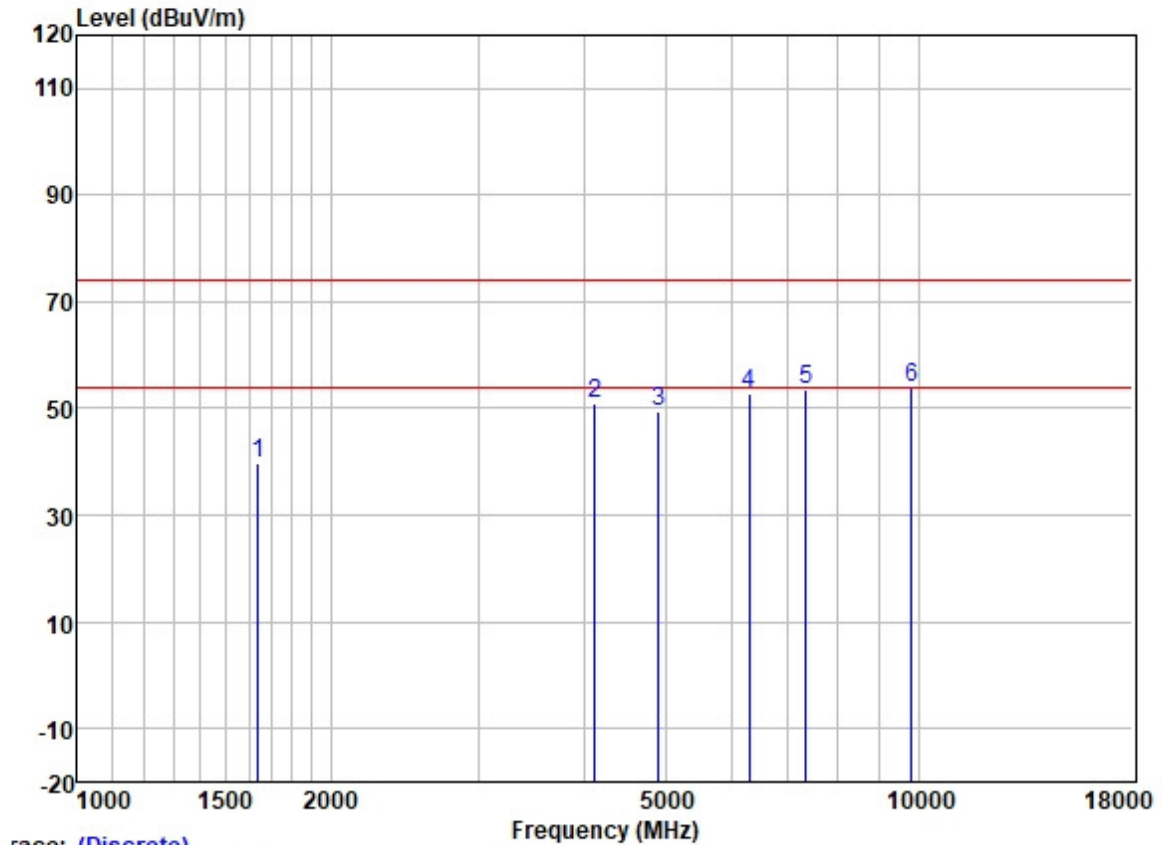
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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	1687.347	48.96	25.69	2.80	37.91	39.54	74.00	-34.46	HORIZONTAL	Peak
2	4329.354	52.38	30.54	4.67	36.81	50.78	74.00	-23.22	HORIZONTAL	Peak
3	4904.000	48.84	31.58	5.55	36.84	49.13	74.00	-24.87	HORIZONTAL	Peak
4	6995.172	49.60	35.00	5.81	37.25	53.16	74.00	-20.84	HORIZONTAL	Peak
5	7356.000	48.55	36.06	6.15	37.44	53.32	74.00	-20.68	HORIZONTAL	Peak
6	9808.000	44.79	38.56	7.00	37.41	52.94	74.00	-21.06	HORIZONTAL	Peak

Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1639.274	49.22	25.62	2.80	37.93	39.71	74.00	-34.29	VERTICAL	Peak
2	4121.768	53.14	29.98	4.60	36.80	50.92	74.00	-23.08	VERTICAL	Peak
3	4904.000	49.12	31.58	5.55	36.84	49.41	74.00	-24.59	VERTICAL	Peak
4	6285.695	50.47	33.37	5.98	36.95	52.87	74.00	-21.13	VERTICAL	Peak
5	7356.000	48.59	36.06	6.15	37.44	53.36	74.00	-20.64	VERTICAL	Peak
6	9808.000	45.63	38.56	7.00	37.41	53.78	74.00	-20.22	VERTICAL	Peak

7.10 Duty Cycle

Test Requirement KDB 558074 D01 v05r02 section 6
Test Method: ANSI C63.10 (2013) Section 11.6

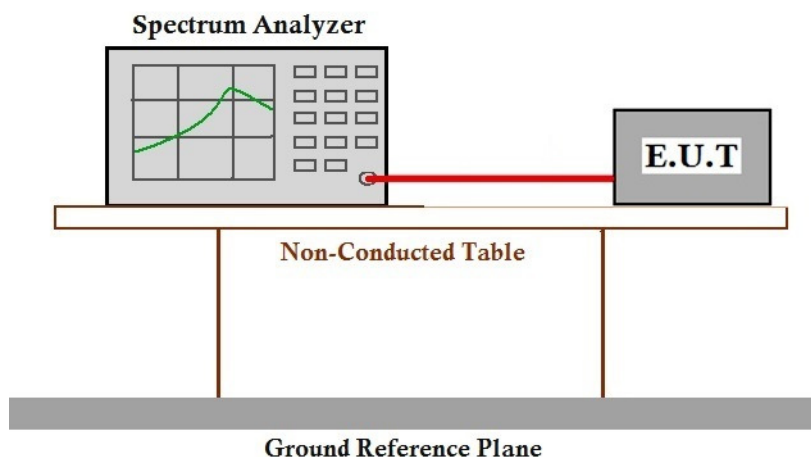
7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 20.4 °C Humidity: 50.6 % RH Atmospheric Pressure: 1015 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.
Pre-scan	03	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix –Setup Photos for GZCR2204000426AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2204000426AT



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10 Appendix

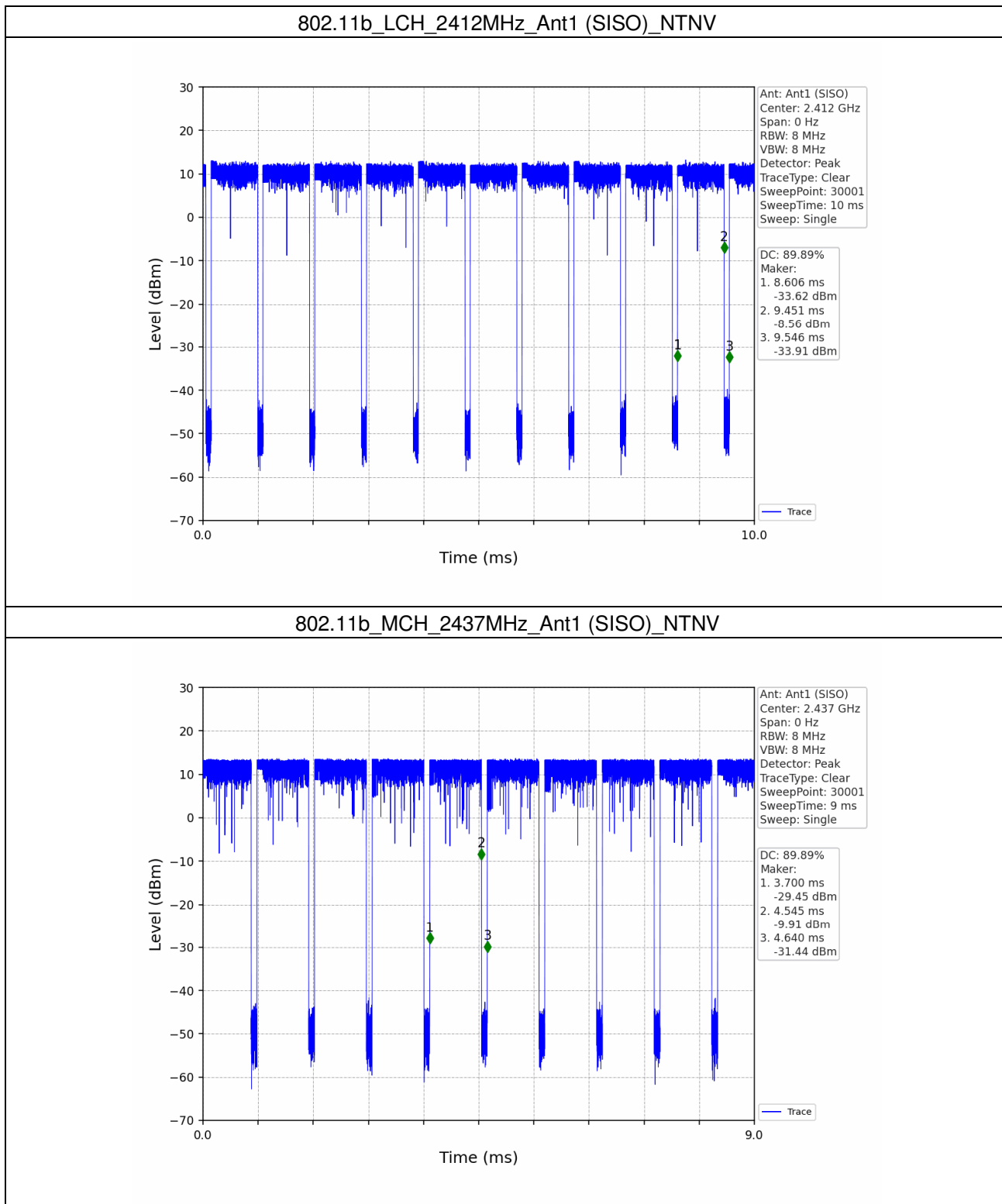
1. Duty Cycle

1.1 Ant1

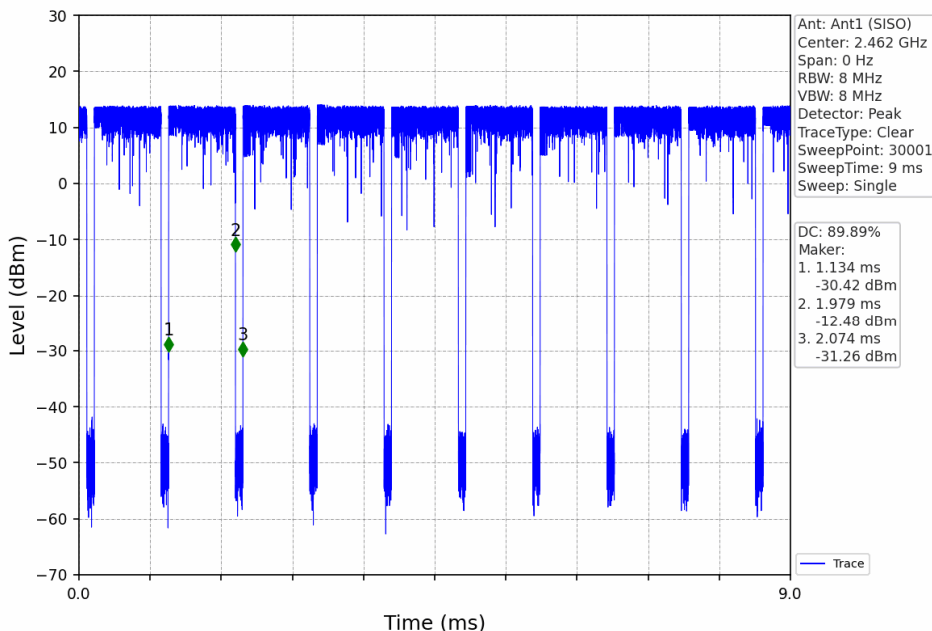
1.1.1 Test Result

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	0.845	0.940	89.89	0.46	0.04
		2437	0.845	0.940	89.89	0.46	0.03
		2462	0.845	0.940	89.89	0.46	0.03
802.11g	SISO	2412	0.181	0.279	64.87	1.88	0.08
		2437	0.178	0.279	63.80	1.95	0.05
		2462	0.177	0.279	63.44	1.98	0.12
802.11n (HT20)	SISO	2412	0.167	0.268	62.31	2.05	0.10
		2437	0.165	0.268	61.57	2.11	0.05
		2462	0.168	0.267	62.92	2.01	0.13
802.11n (HT40)	SISO	2422	0.649	0.691	93.92	0.27	0.00
		2437	0.650	0.691	94.07	0.27	0.00
		2452	0.651	0.691	94.21	0.26	0.07

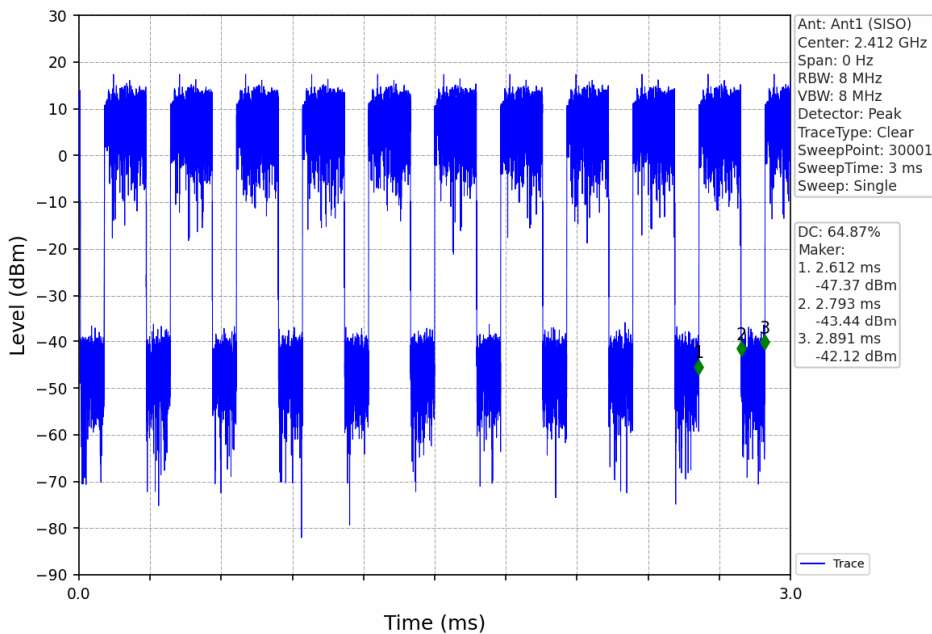
1.1.2 Test Graph



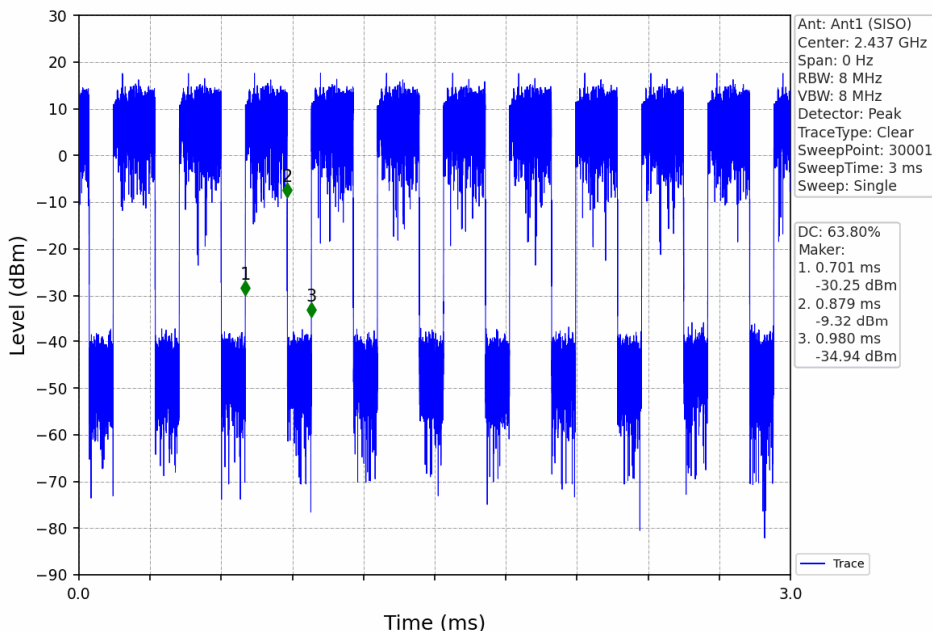
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



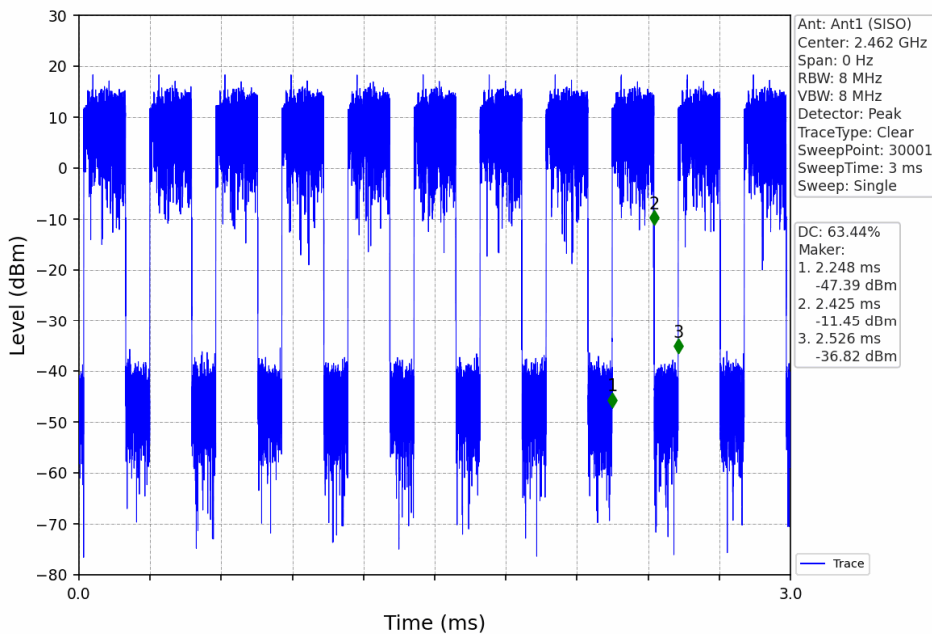
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



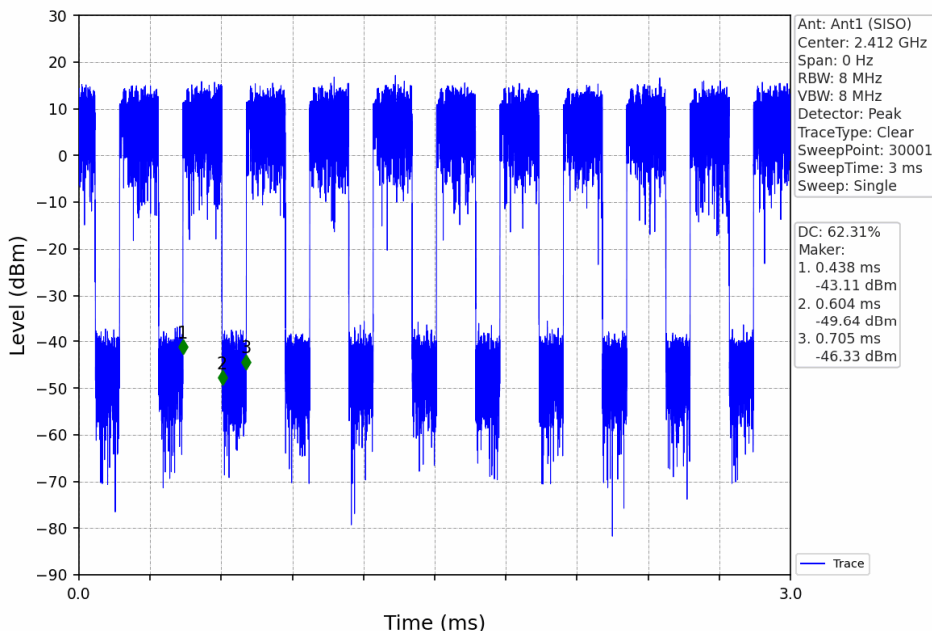
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



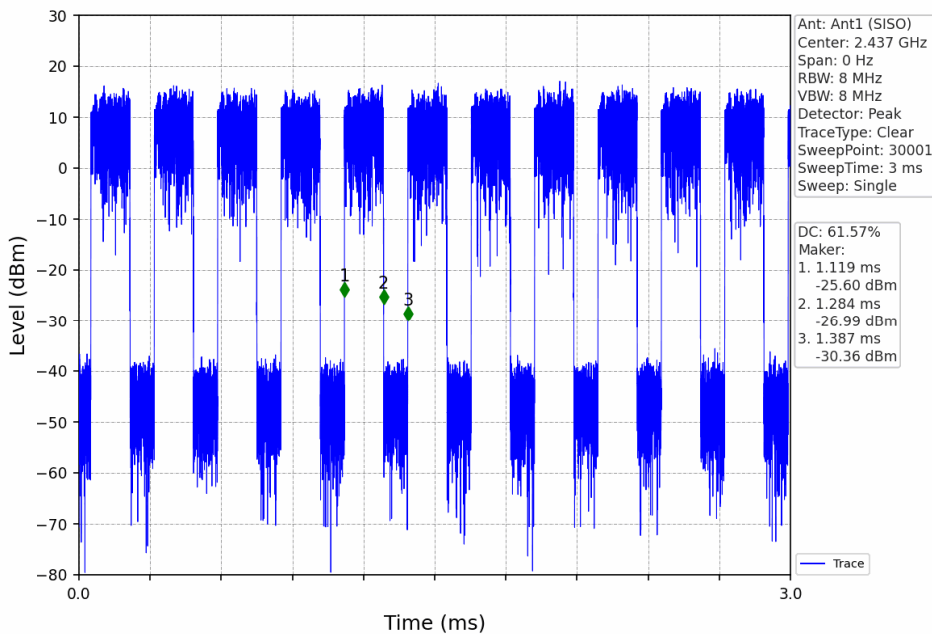
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



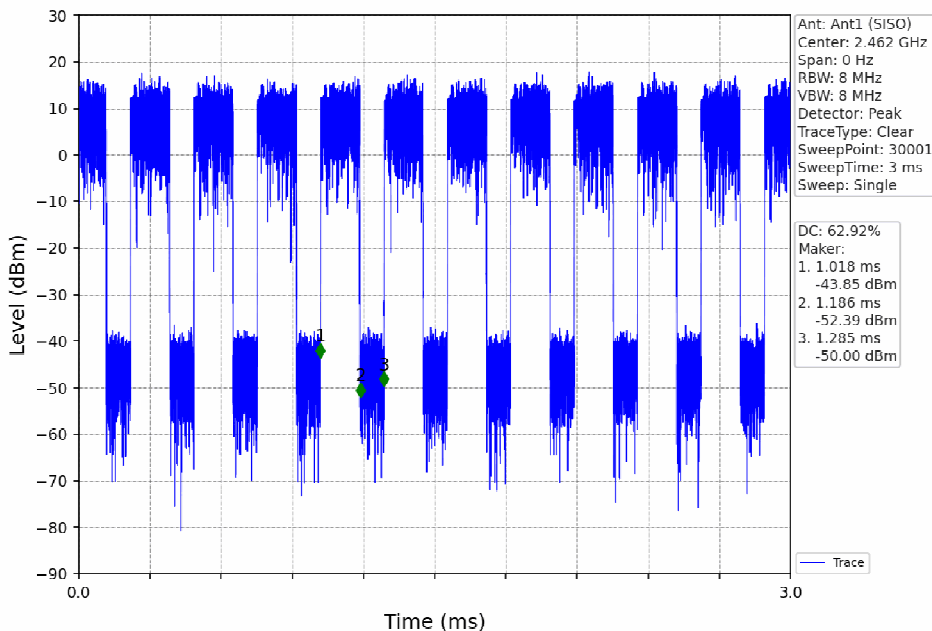
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



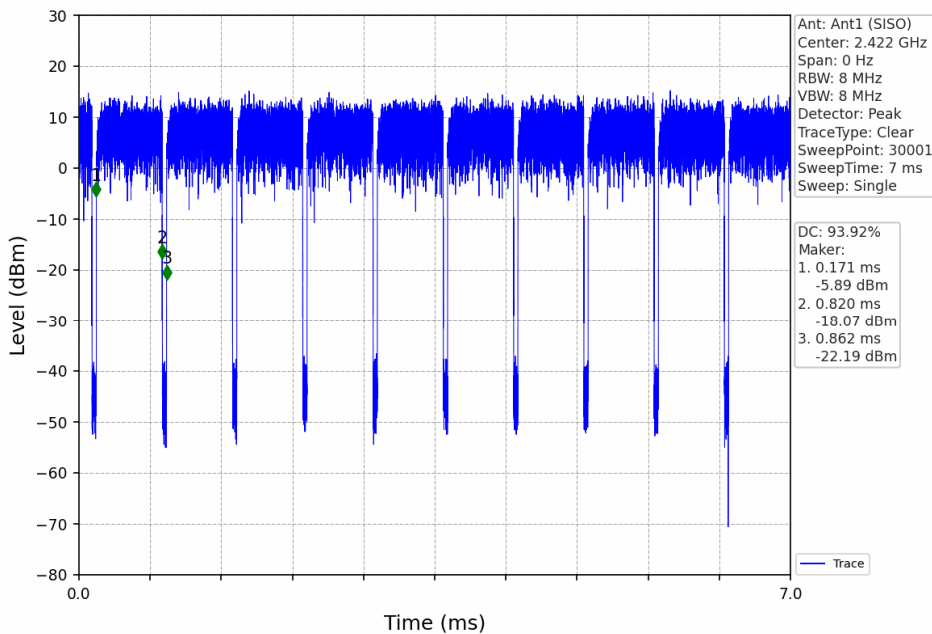
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



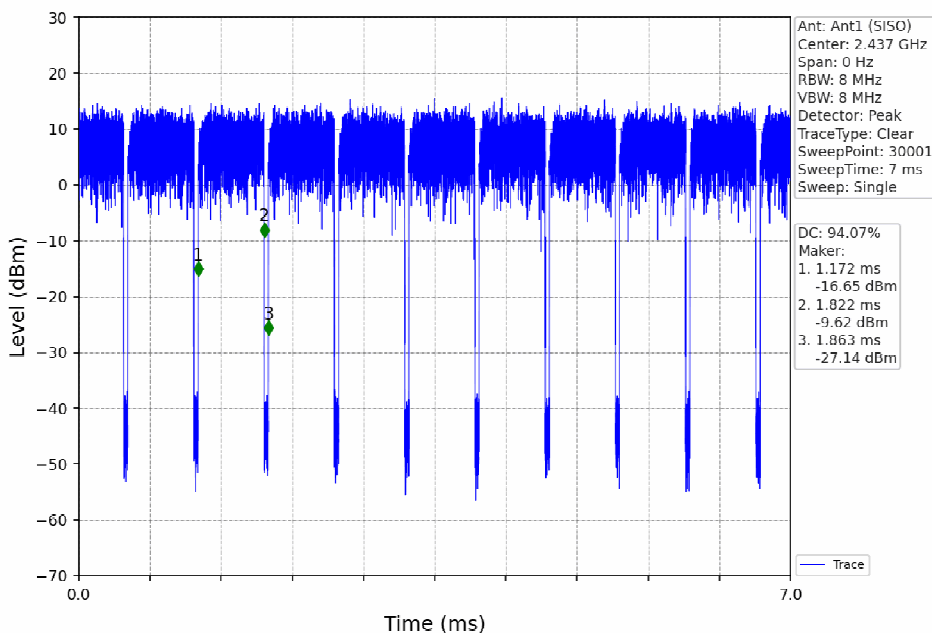
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



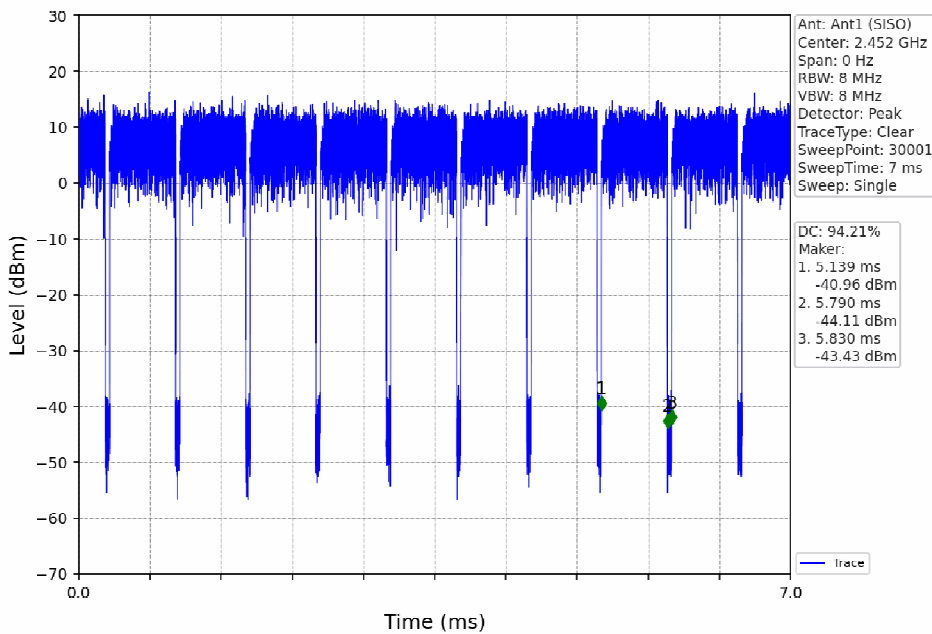
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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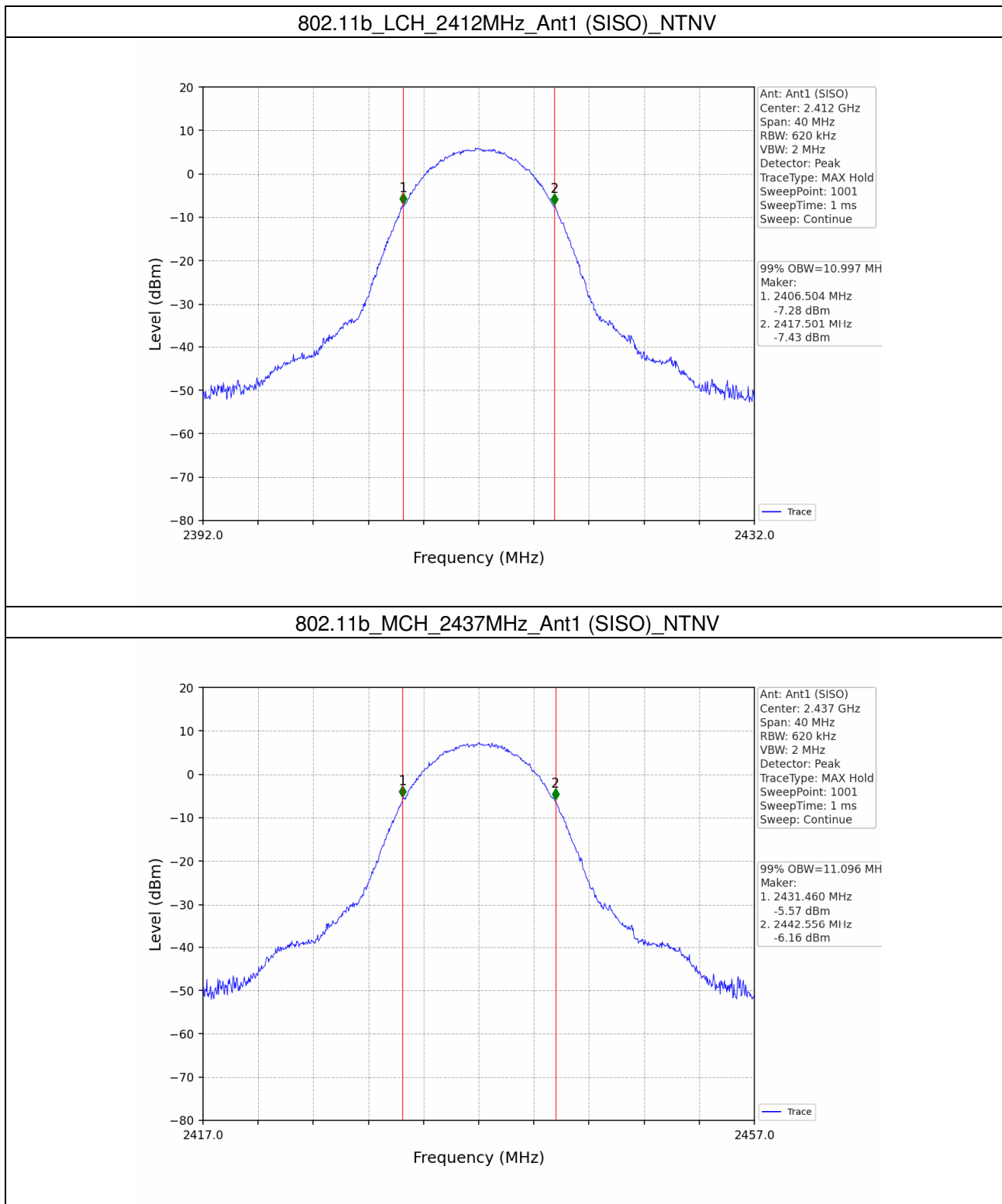
2. Bandwidth

2.1 OBW

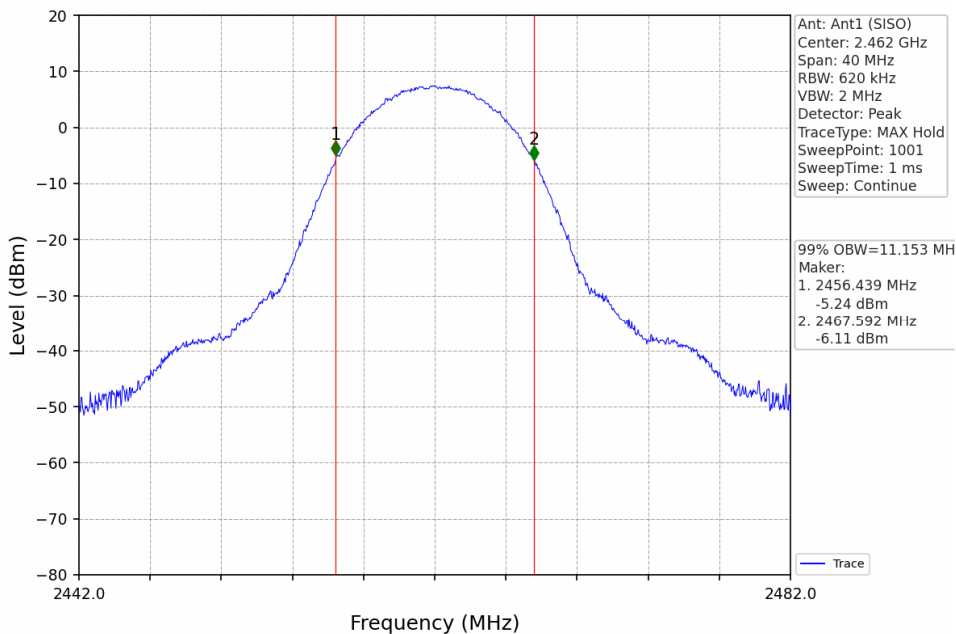
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	10.997	Pass
		2437	1	11.096	Pass
		2462	1	11.153	Pass
802.11g	SISO	2412	1	16.682	Pass
		2437	1	16.682	Pass
		2462	1	16.536	Pass
802.11n (HT20)	SISO	2412	1	18.230	Pass
		2437	1	18.169	Pass
		2462	1	18.073	Pass
802.11n (HT40)	SISO	2422	1	36.648	Pass
		2437	1	36.718	Pass
		2452	1	36.731	Pass

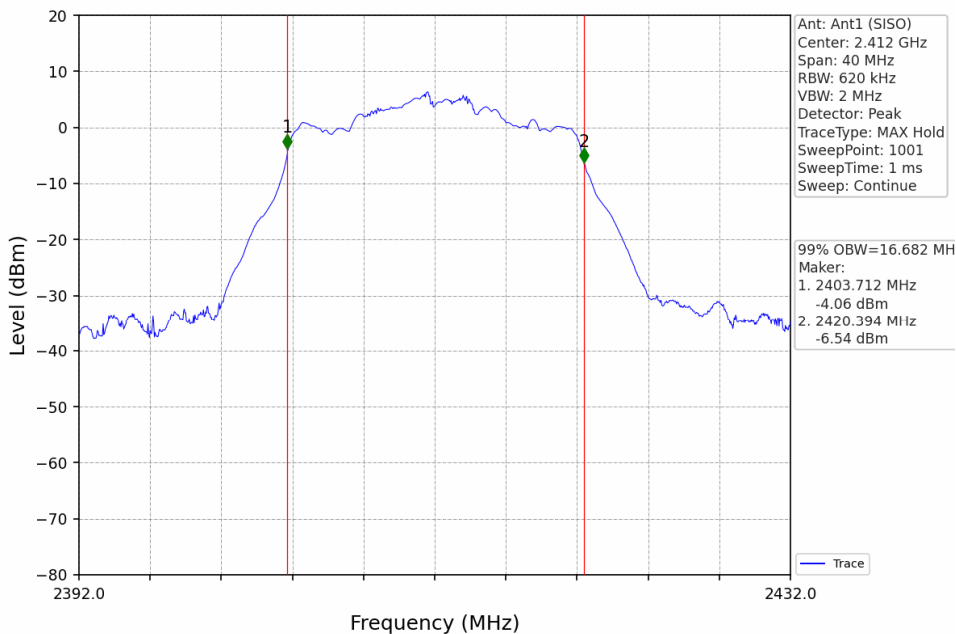
2.1.2 Test Graph



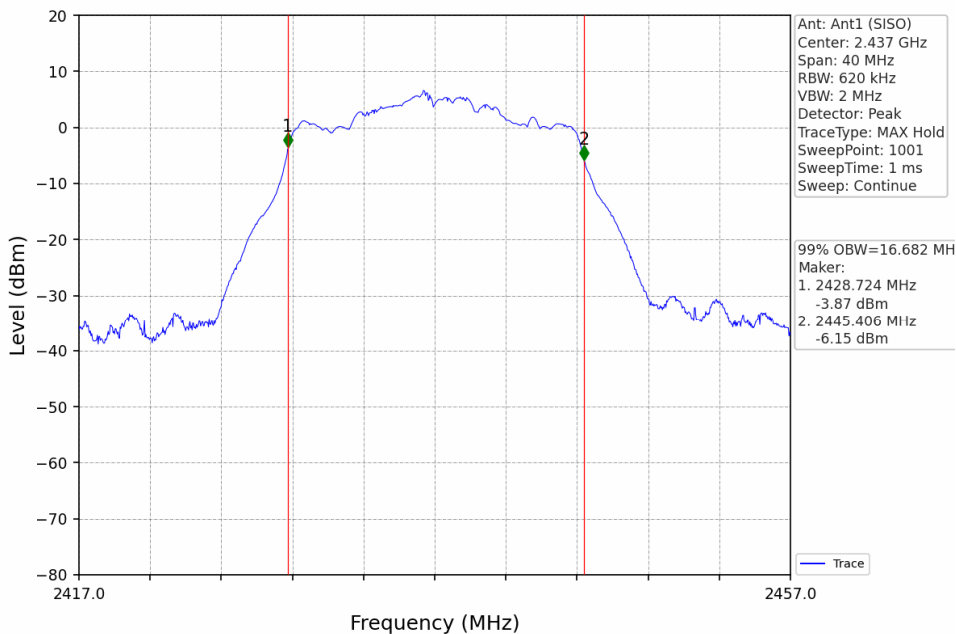
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



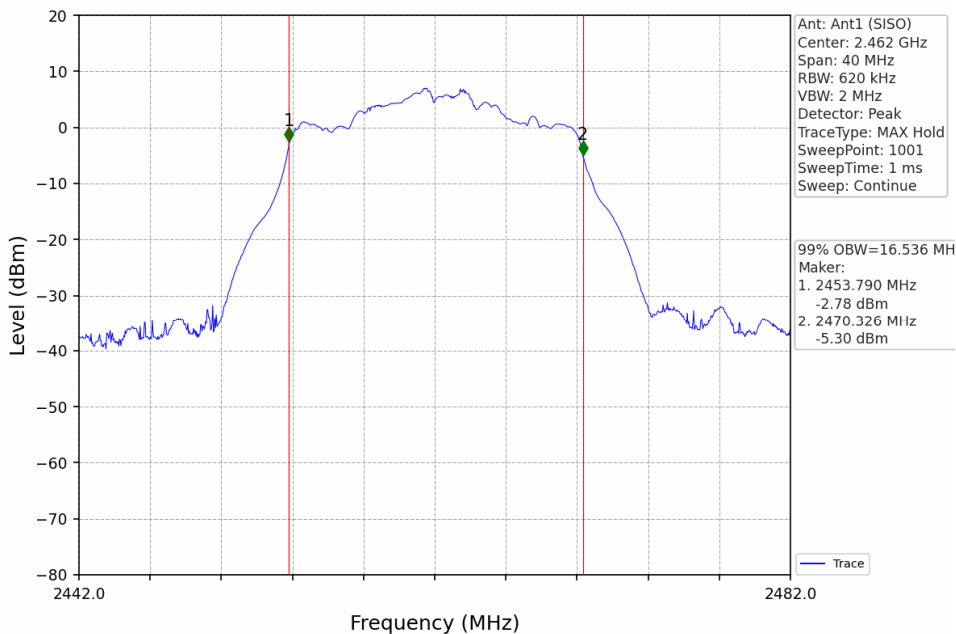
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



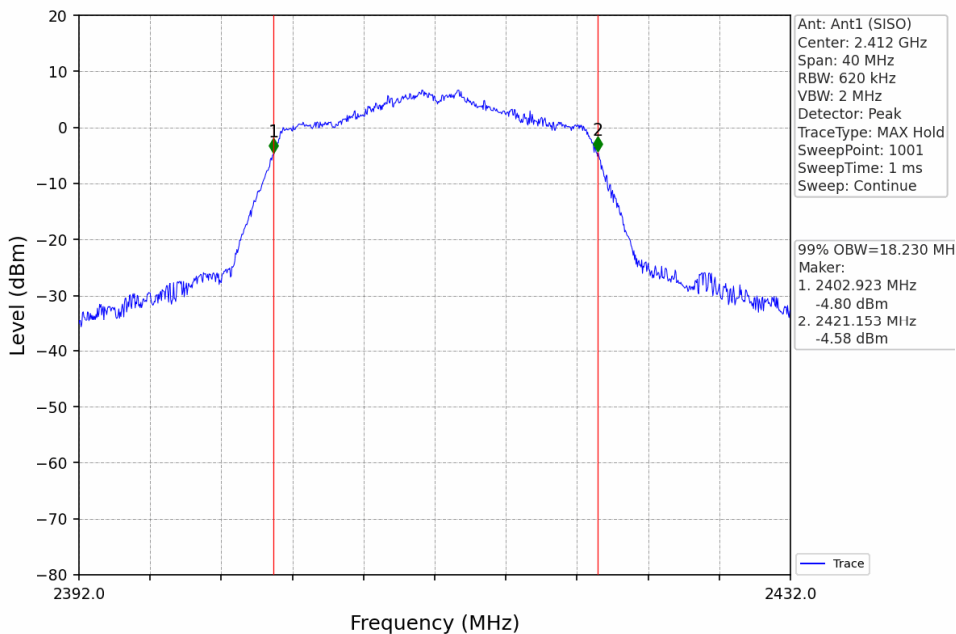
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



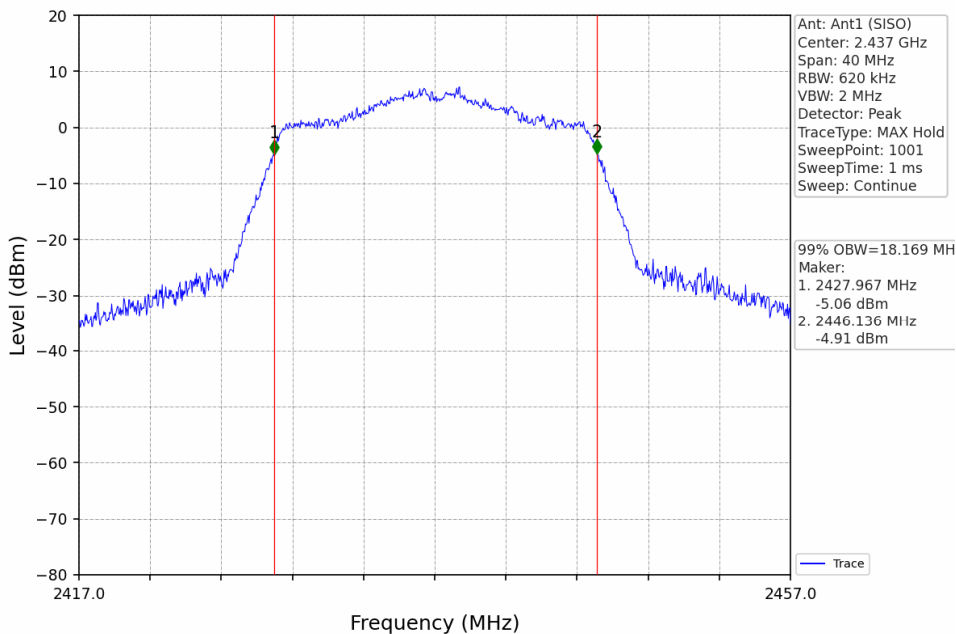
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

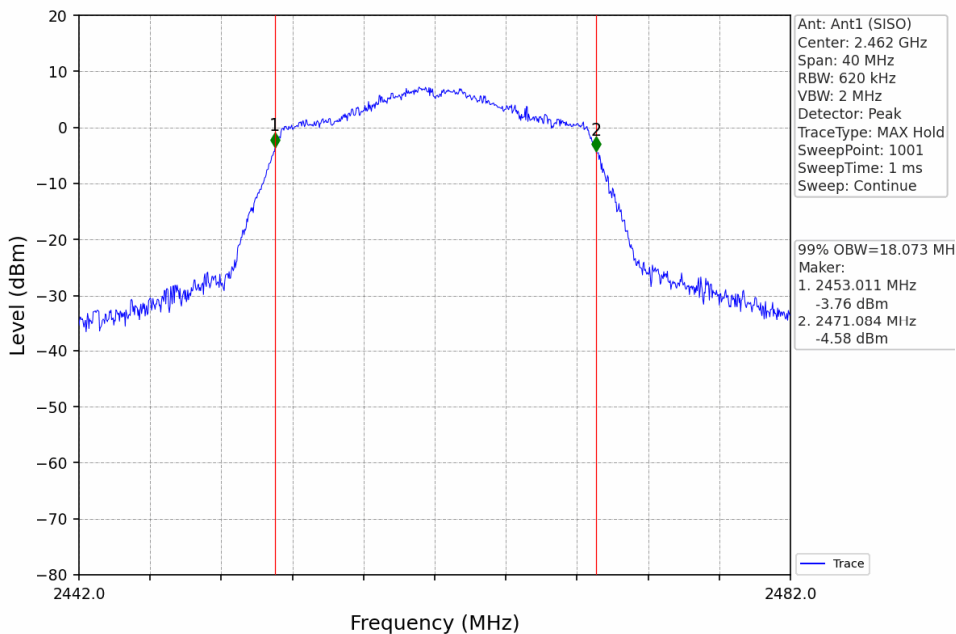


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

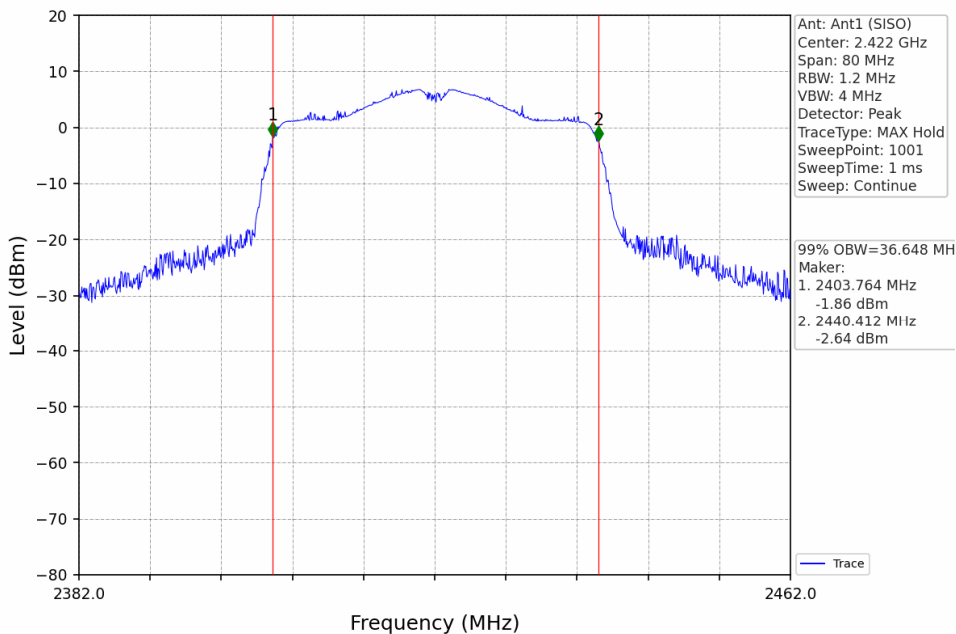


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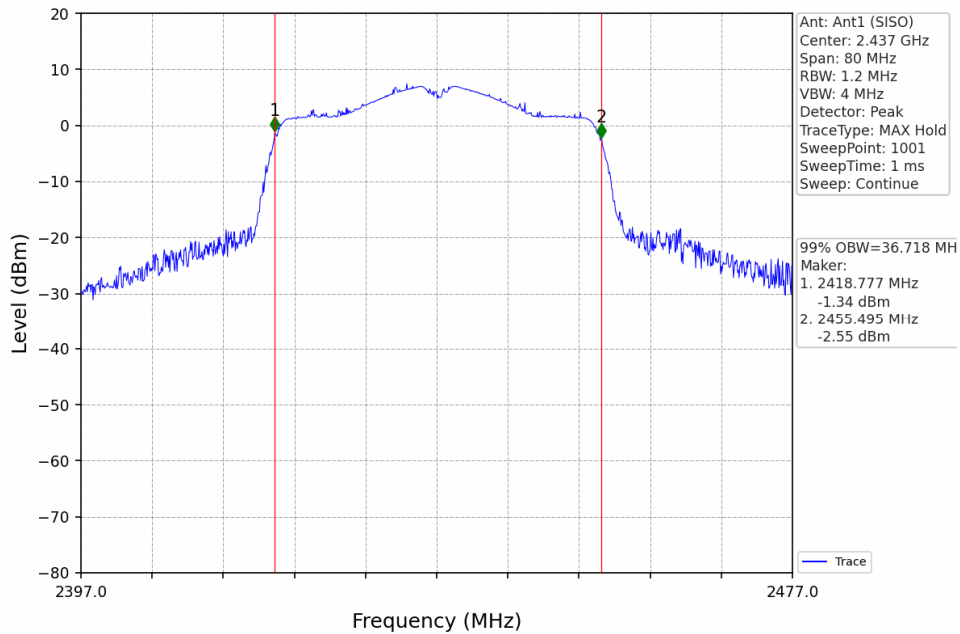
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



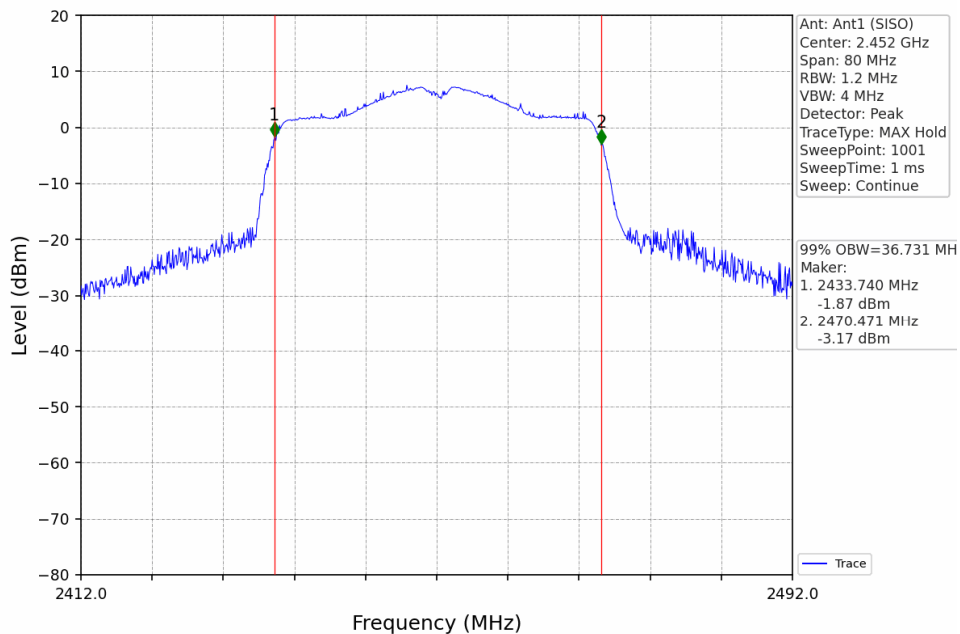
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2.2 6dB BW

2.2.1 Test Result

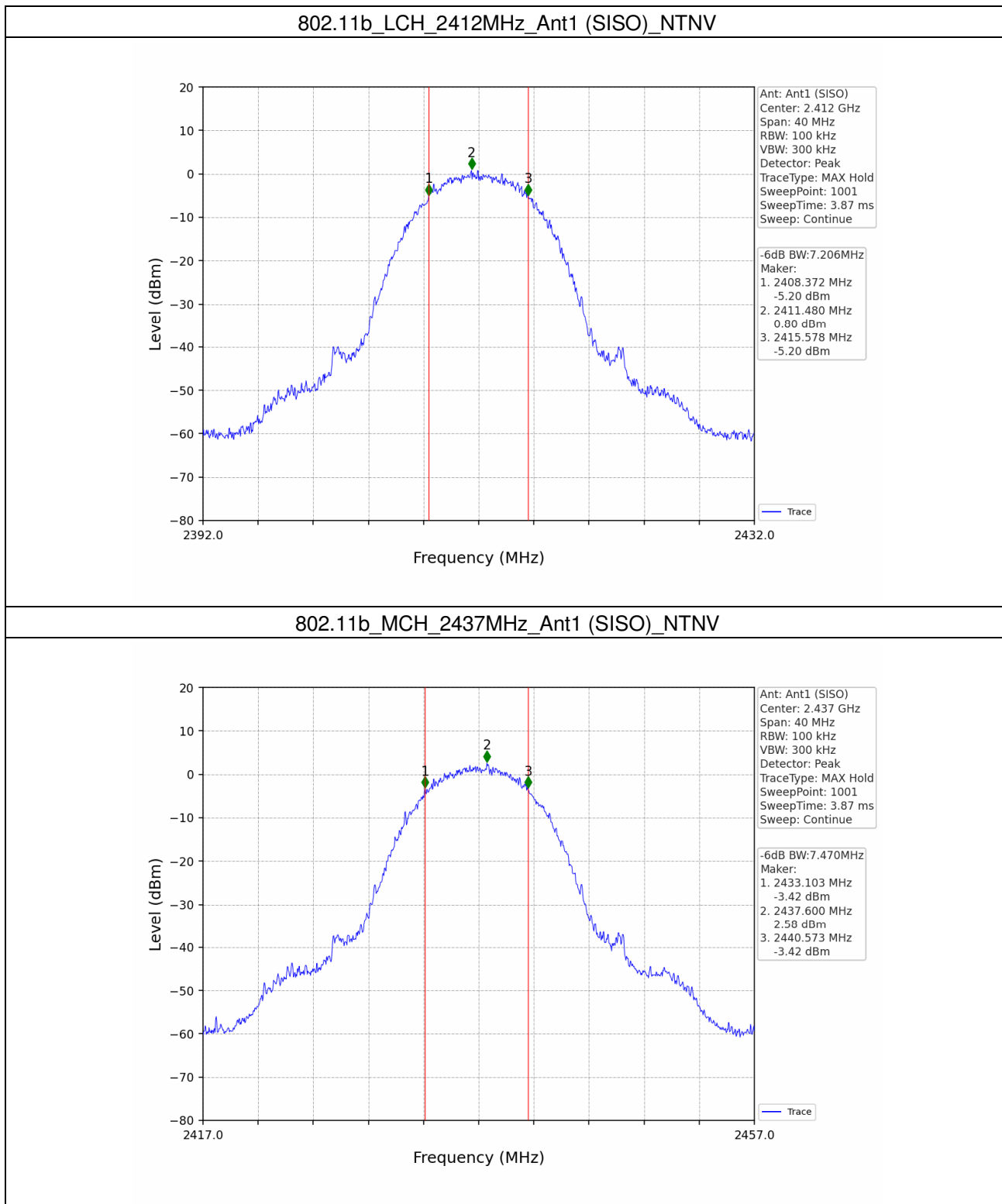
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.206	≥ 0.5	Pass
		2437	1	7.470	≥ 0.5	Pass
		2462	1	7.449	≥ 0.5	Pass
802.11g	SISO	2412	1	15.204	≥ 0.5	Pass
		2437	1	15.203	≥ 0.5	Pass
		2462	1	15.186	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.589	≥ 0.5	Pass
		2437	1	16.619	≥ 0.5	Pass
		2462	1	15.194	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.262	≥ 0.5	Pass
		2437	1	35.263	≥ 0.5	Pass
		2452	1	35.257	≥ 0.5	Pass



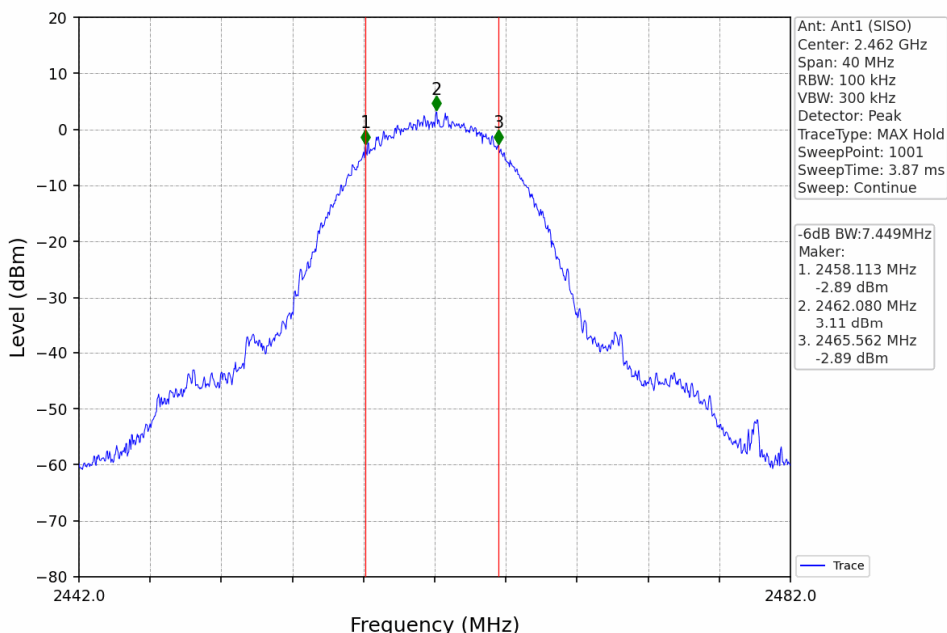
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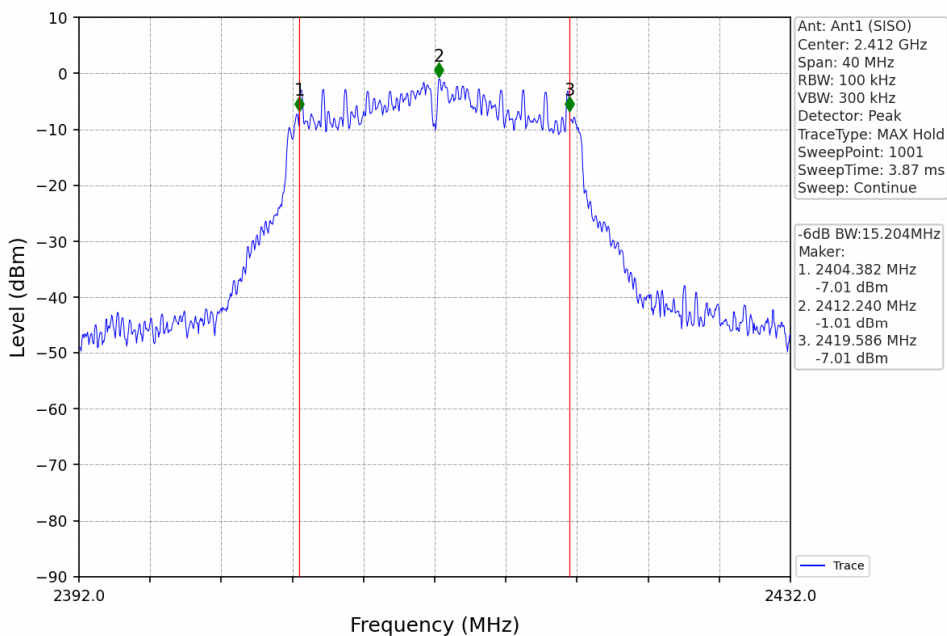
2.2.2 Test Graph



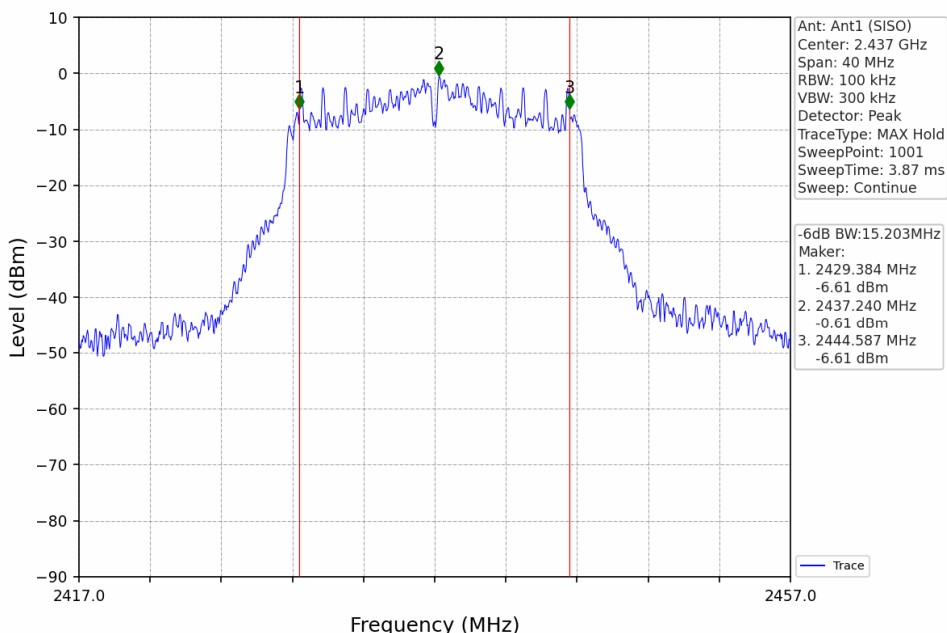
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



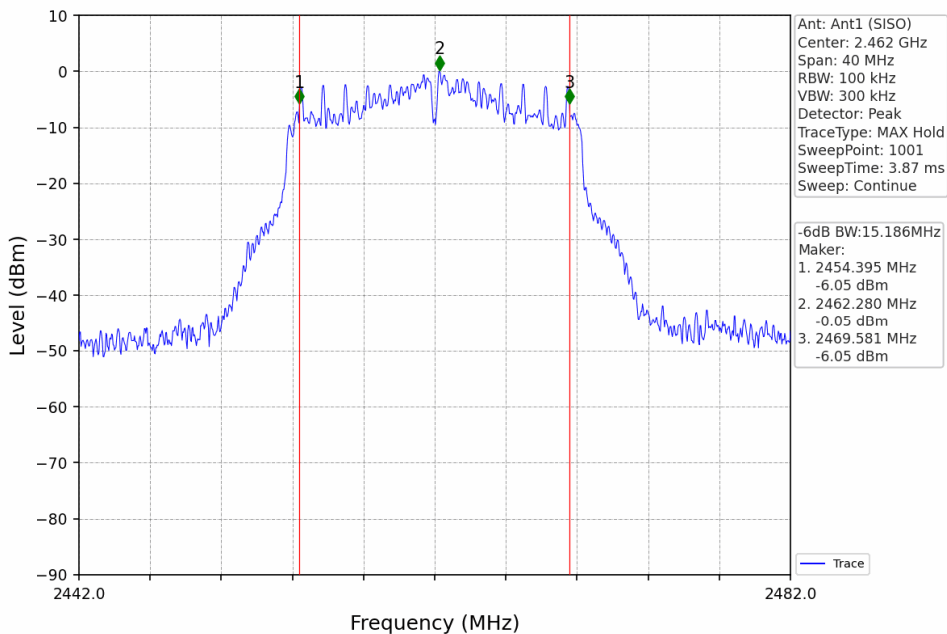
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



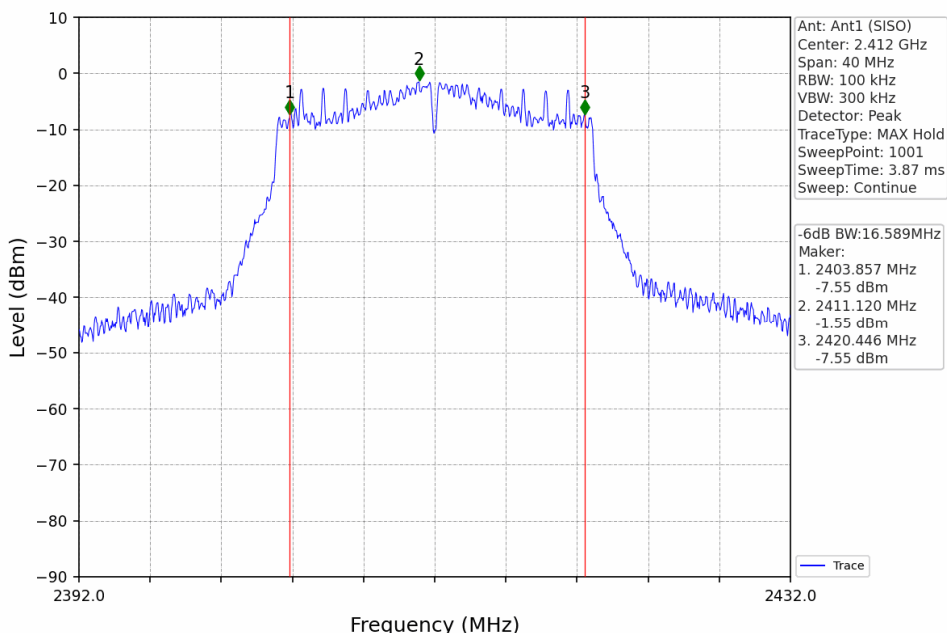
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



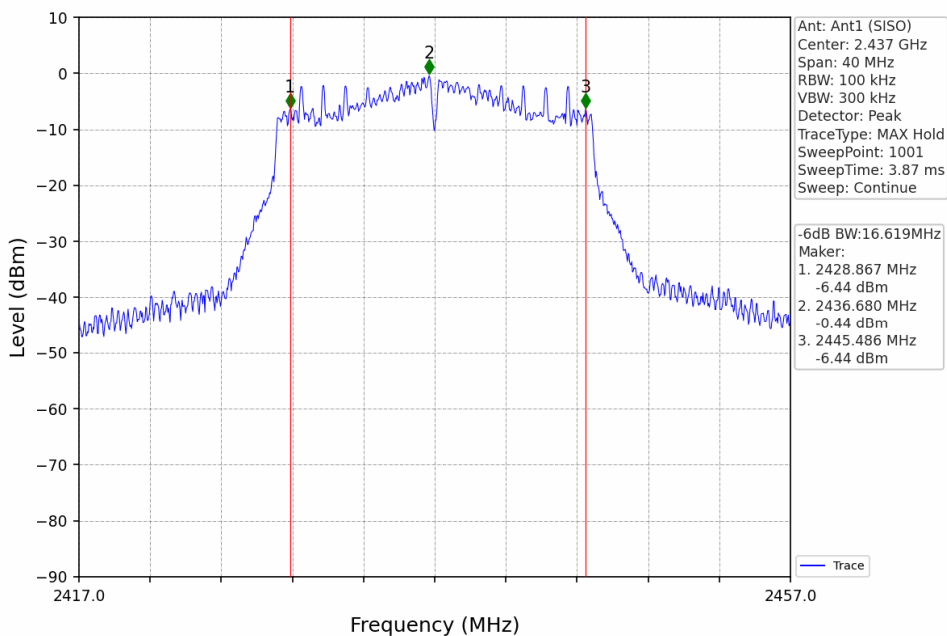
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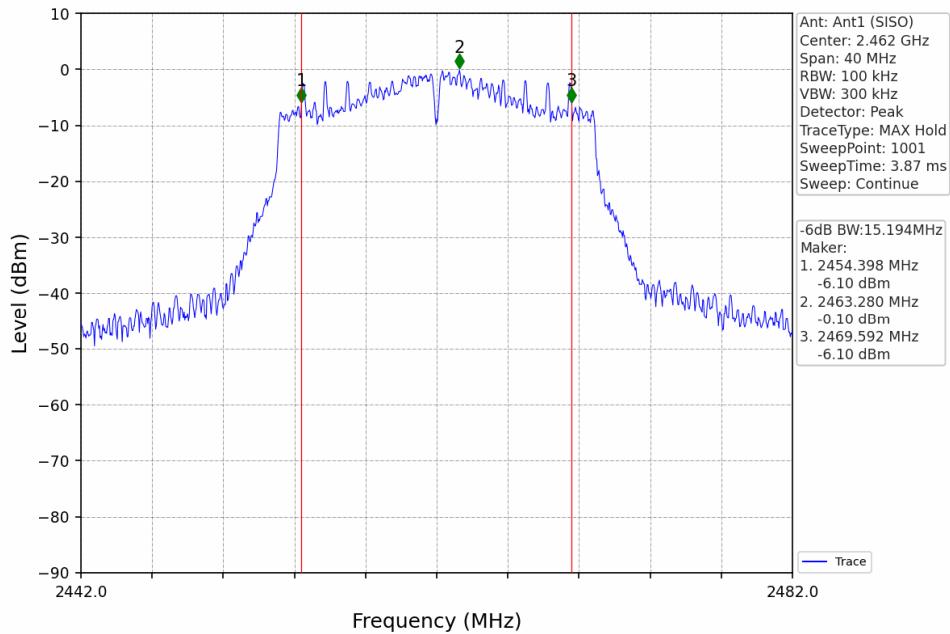
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



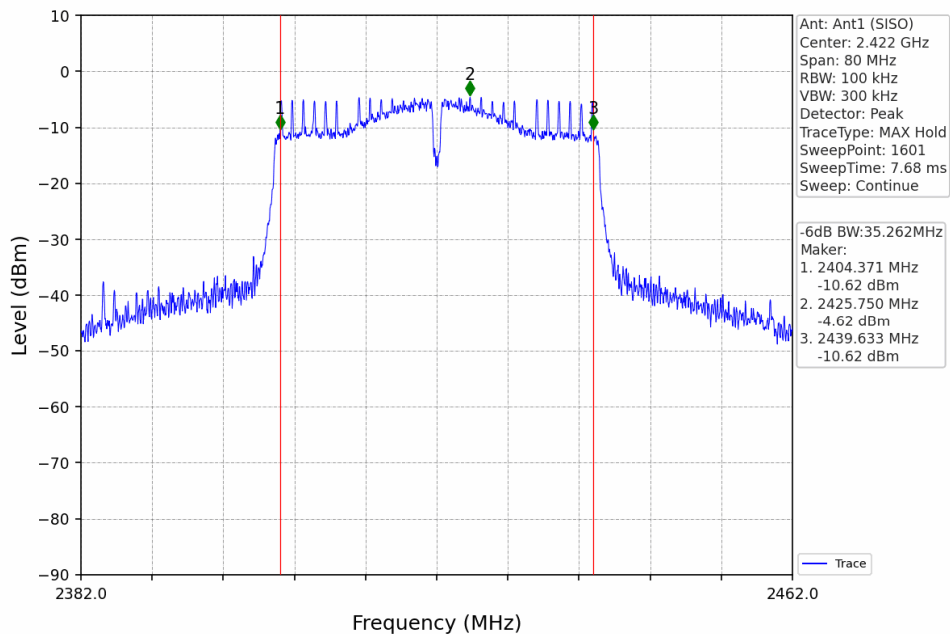
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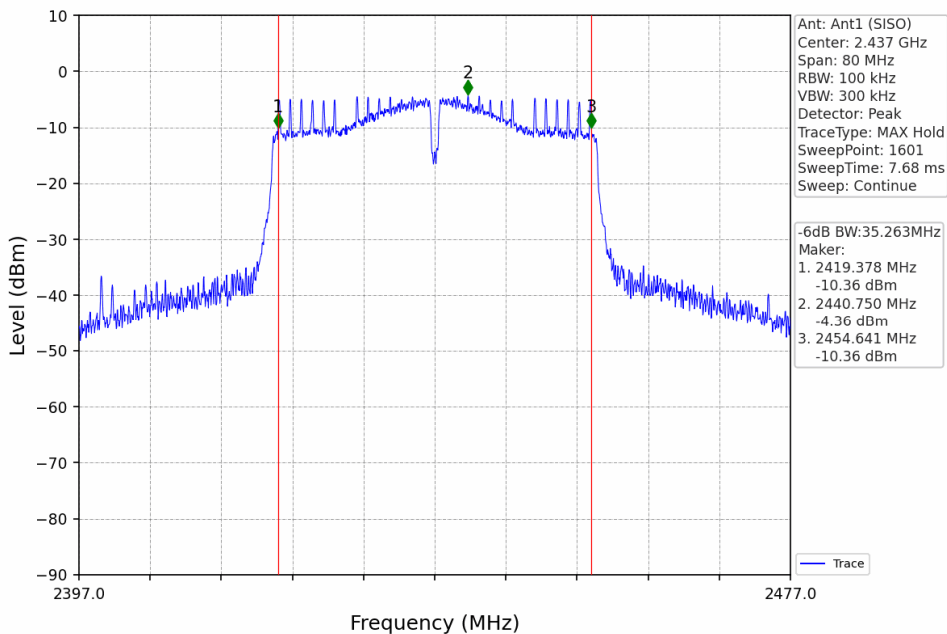
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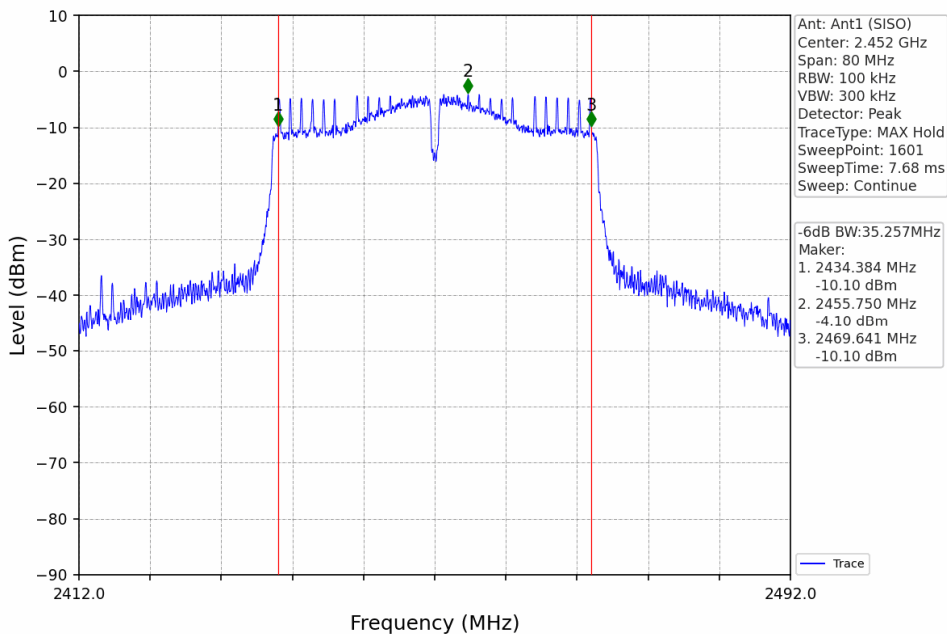
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_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 Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	8.15	≤ 30	Pass
		2437	9.51	≤ 30	Pass
		2462	9.78	≤ 30	Pass
802.11g	SISO	2412	8.98	≤ 30	Pass
		2437	9.25	≤ 30	Pass
		2462	9.72	≤ 30	Pass
802.11n (HT20)	SISO	2412	8.70	≤ 30	Pass
		2437	9.16	≤ 30	Pass
		2462	9.55	≤ 30	Pass
802.11n (HT40)	SISO	2422	9.39	≤ 30	Pass
		2437	9.62	≤ 30	Pass
		2452	9.68	≤ 30	Pass

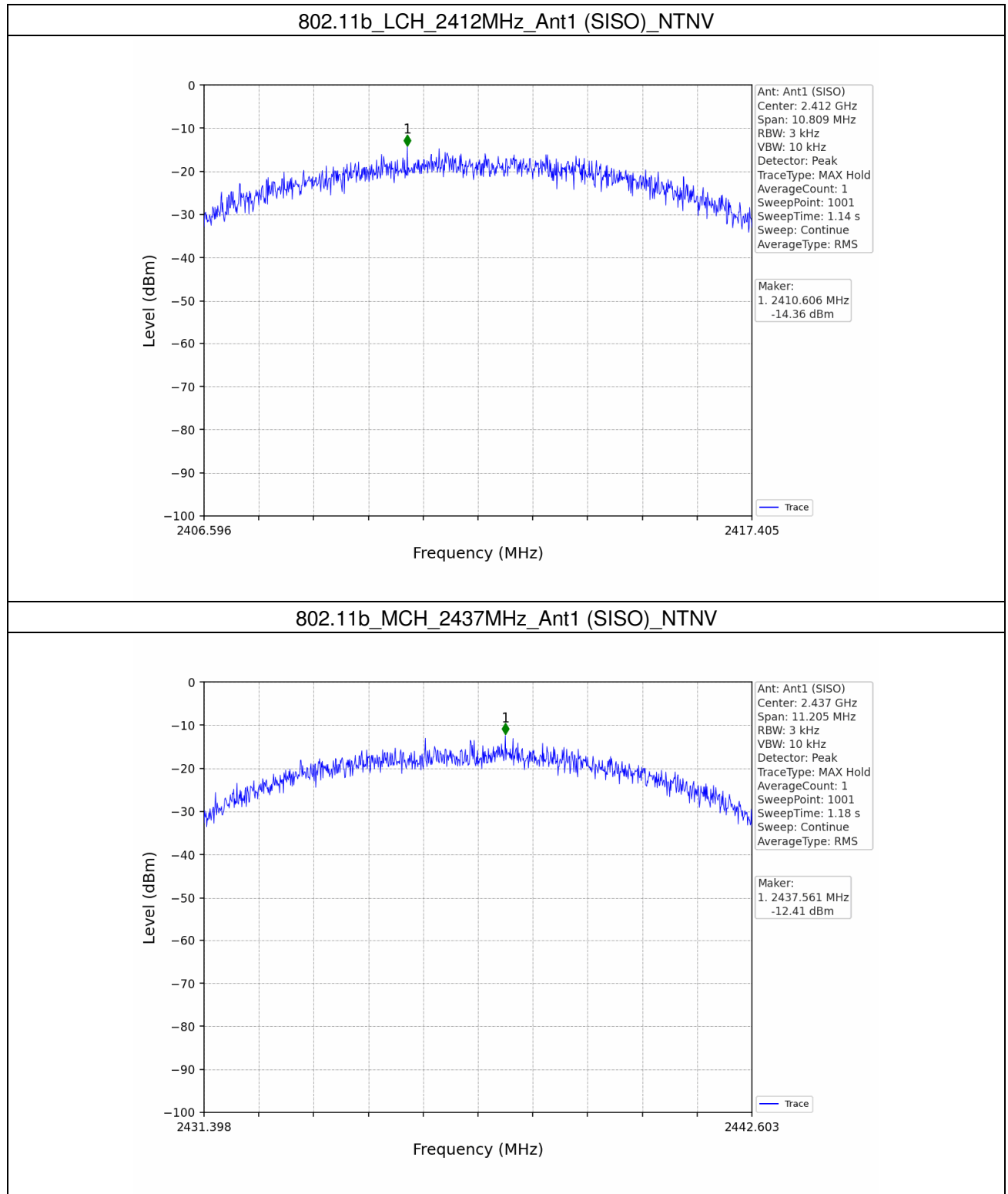
4. Maximum Power Spectral Density

4.1 PSD

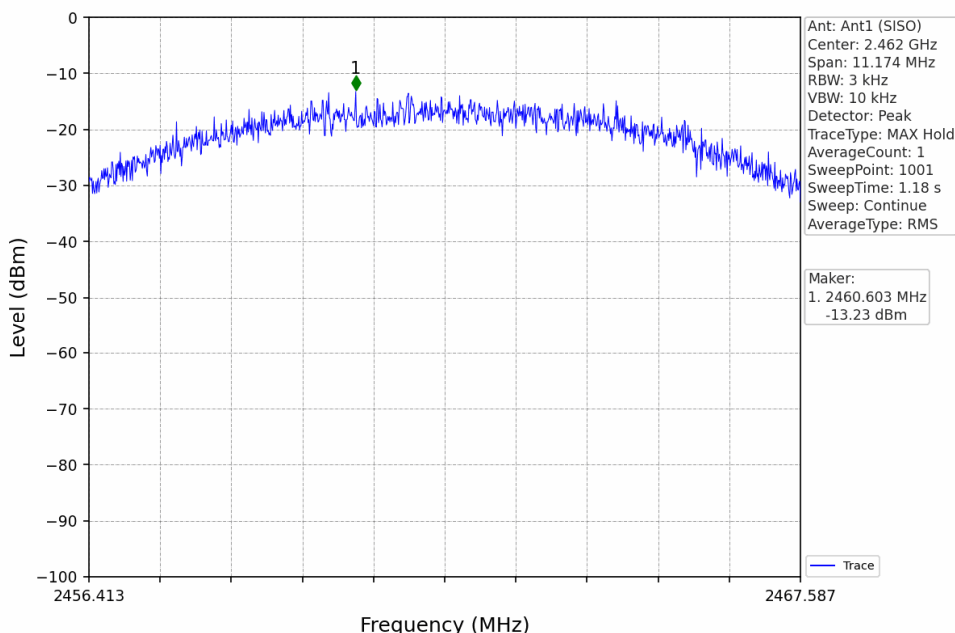
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-14.36	≤ 8	Pass
		2437	-12.41	≤ 8	Pass
		2462	-13.23	≤ 8	Pass
802.11g	SISO	2412	-16.41	≤ 8	Pass
		2437	-16.05	≤ 8	Pass
		2462	-15.52	≤ 8	Pass
802.11n (HT20)	SISO	2412	-16.06	≤ 8	Pass
		2437	-15.94	≤ 8	Pass
		2462	-13.73	≤ 8	Pass
802.11n (HT40)	SISO	2422	-17.00	≤ 8	Pass
		2437	-16.59	≤ 8	Pass
		2452	-16.81	≤ 8	Pass

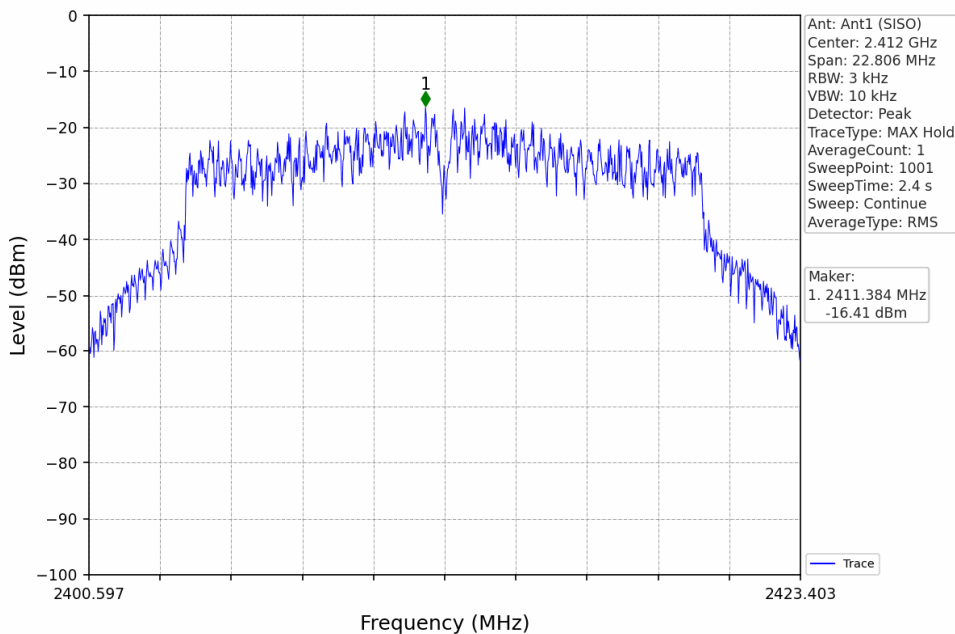
4.1.2 Test Graph



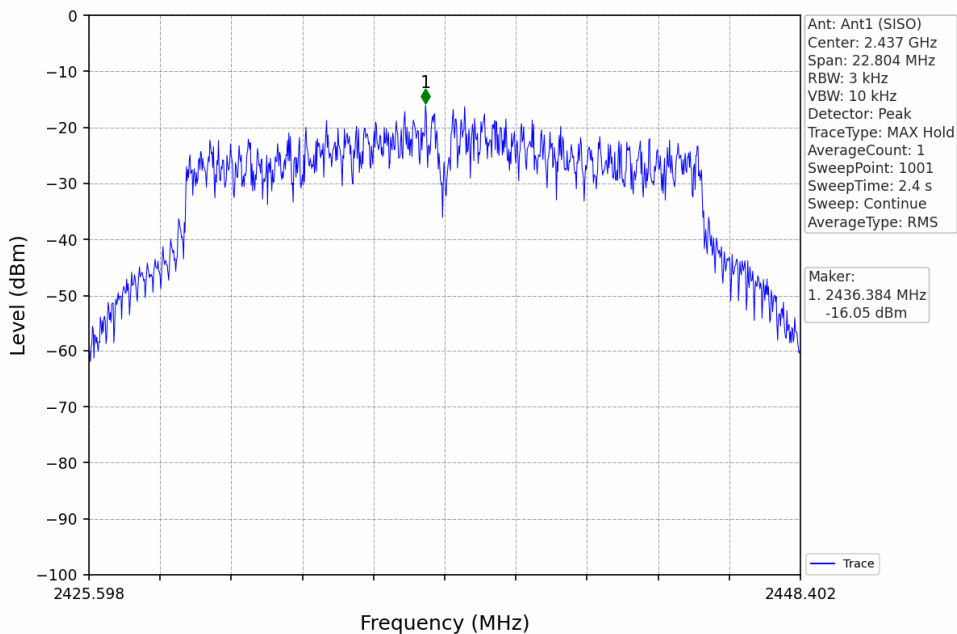
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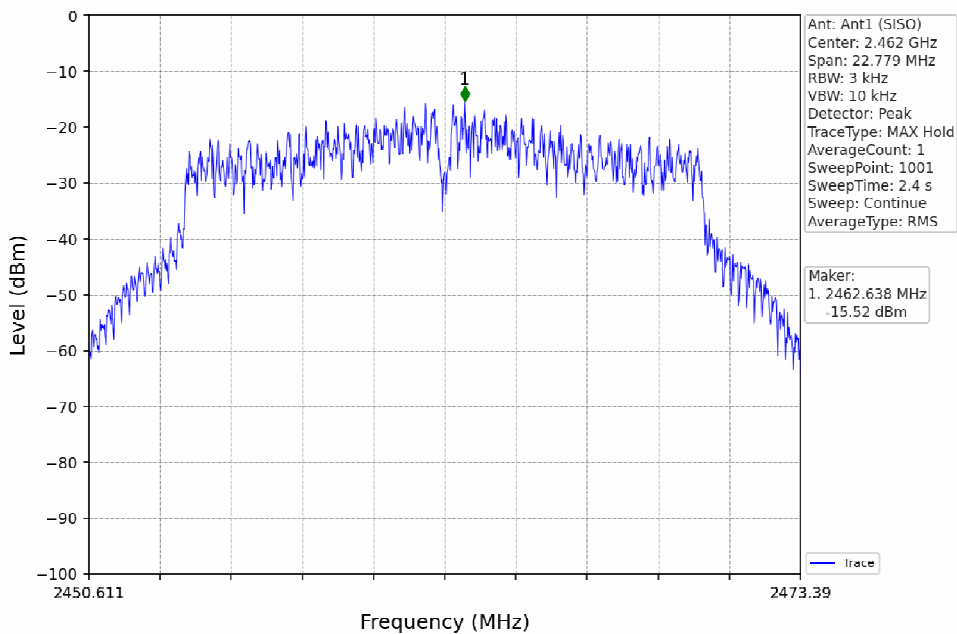
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



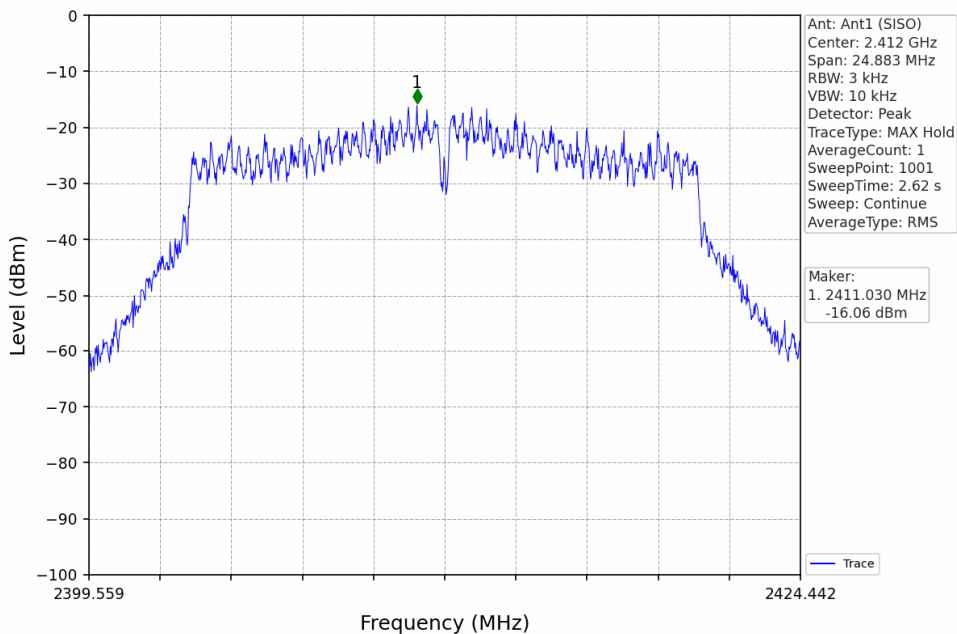
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



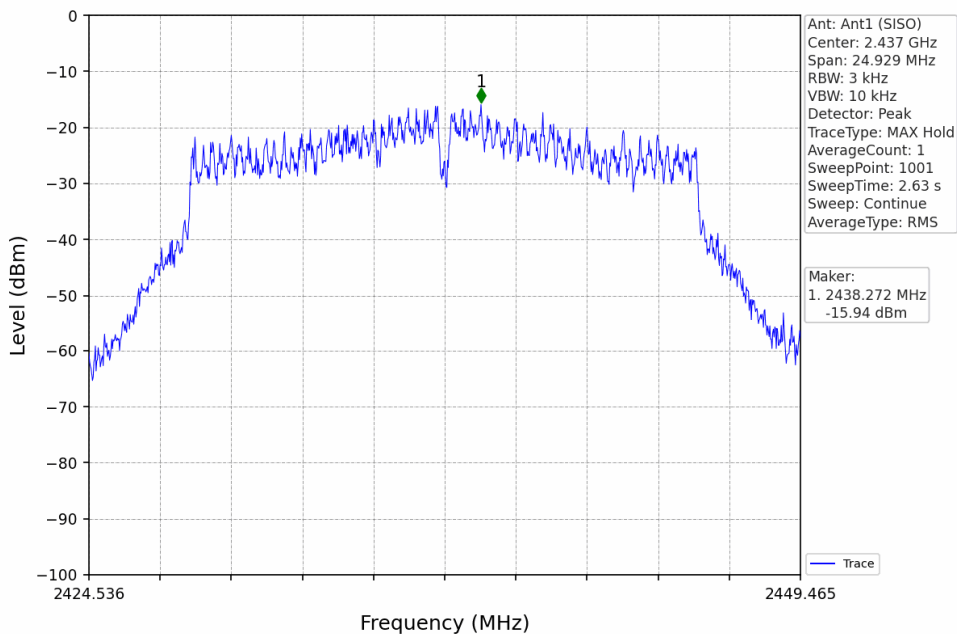
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



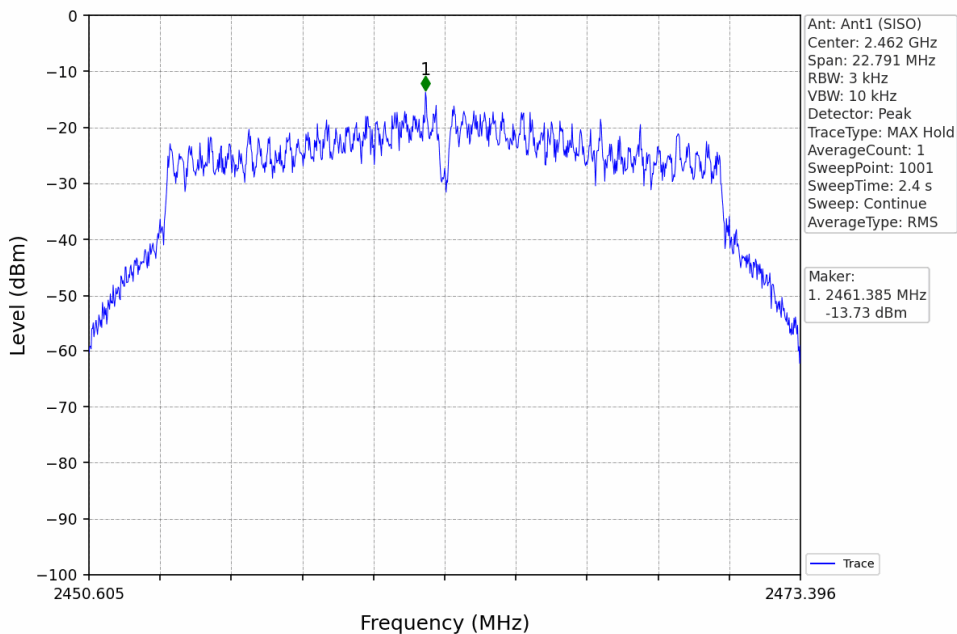
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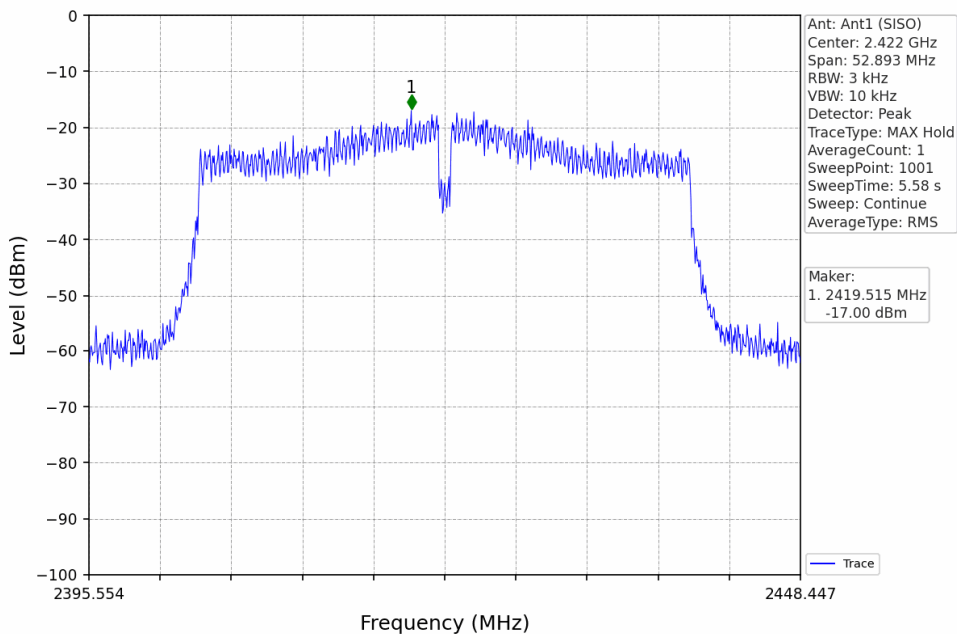
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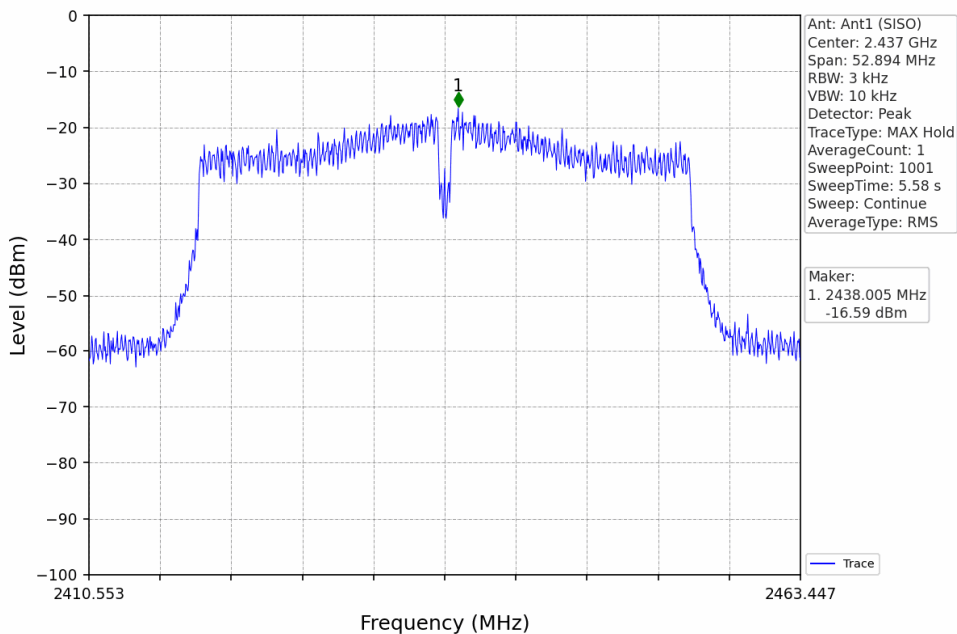
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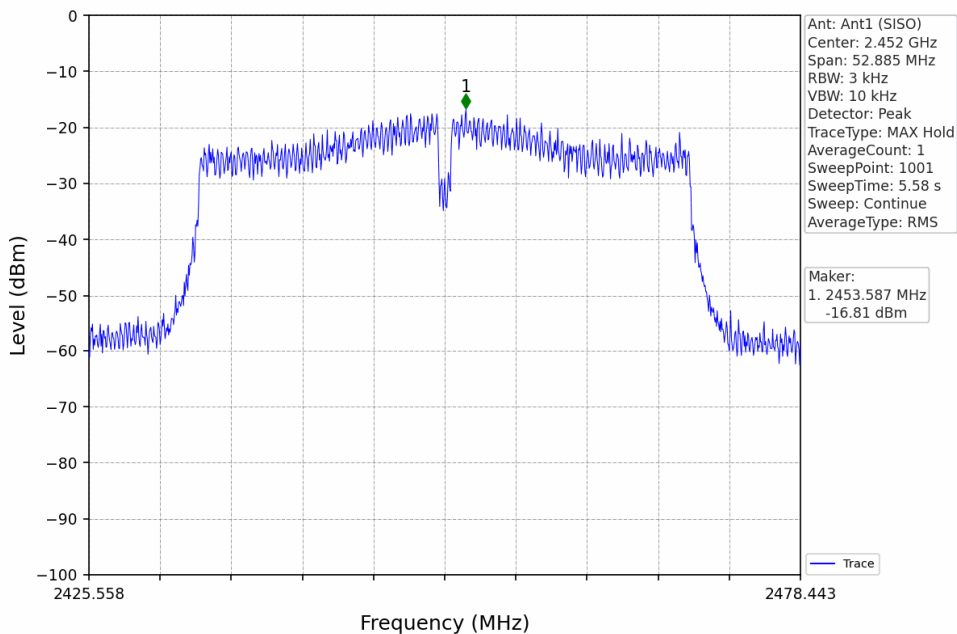
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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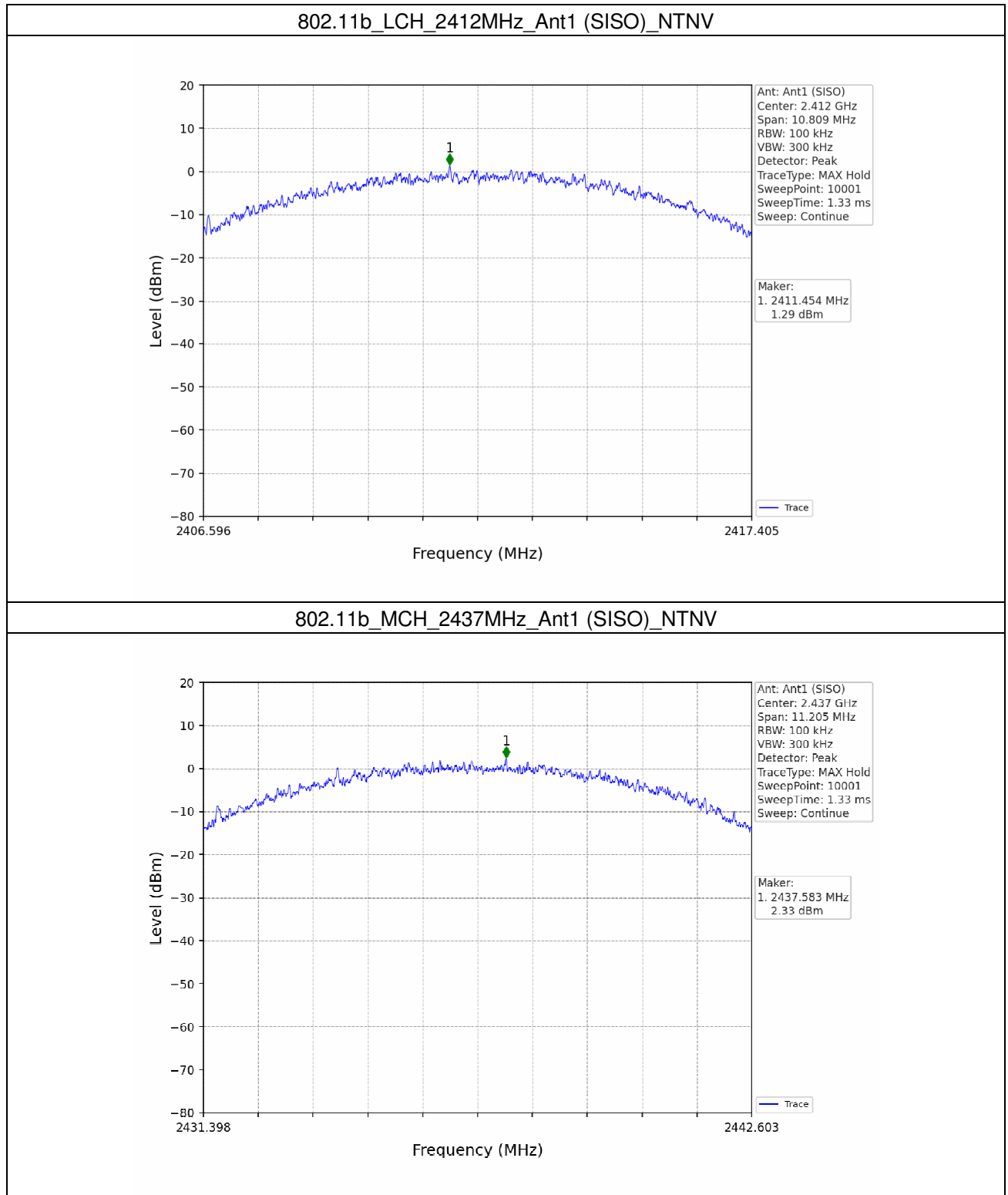
5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

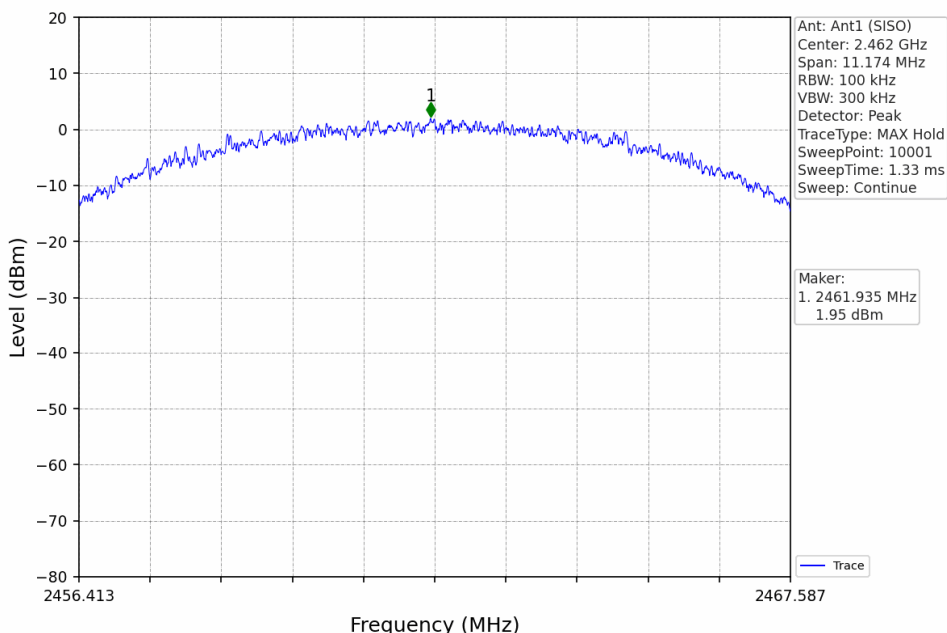
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	1.29
		2437	1	2.33
		2462	1	1.95
802.11g	SISO	2412	1	-1.14
		2437	1	-0.74
		2462	1	-0.19
802.11n (HT20)	SISO	2412	1	-1.48
		2437	1	-1.36
		2462	1	-0.56
802.11n (HT40)	SISO	2422	1	-4.38
		2437	1	-4.20
		2452	1	-4.20

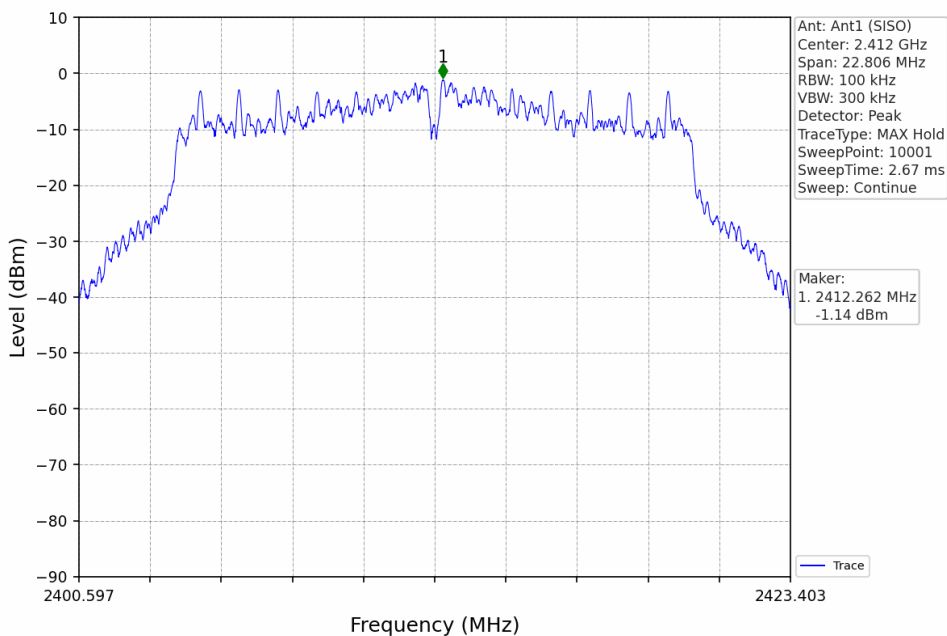
5.1.2 Test Graph



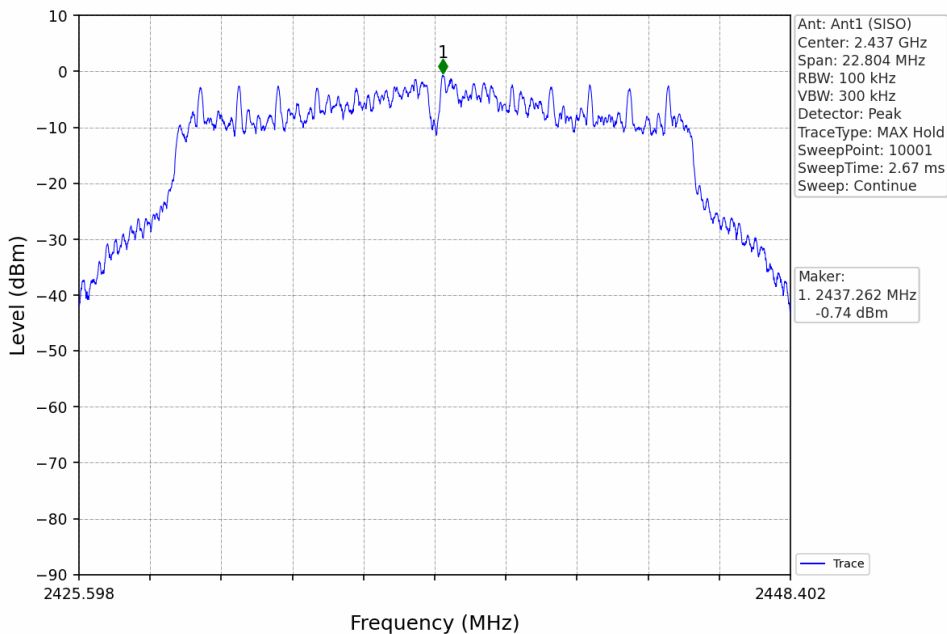
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



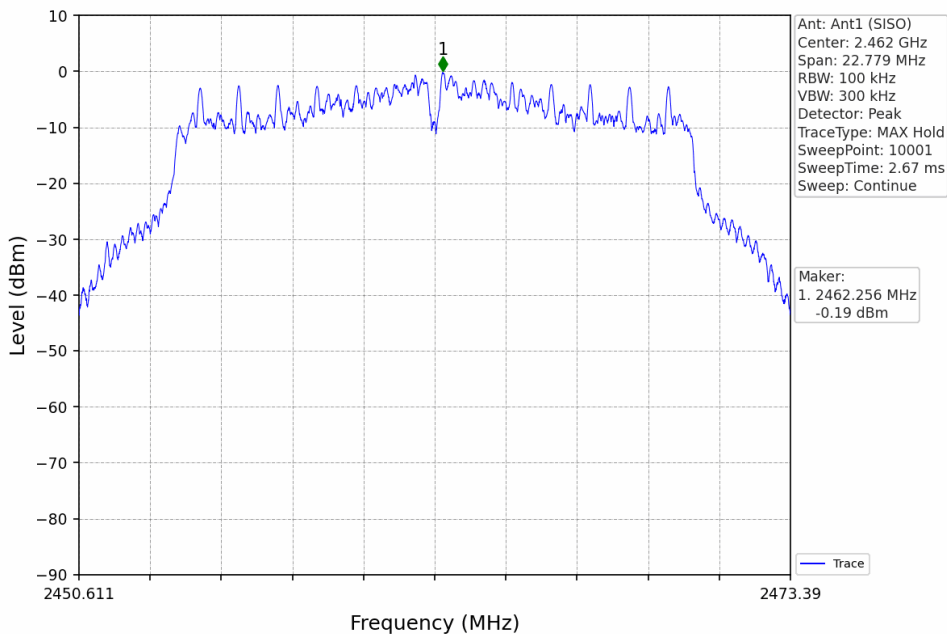
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



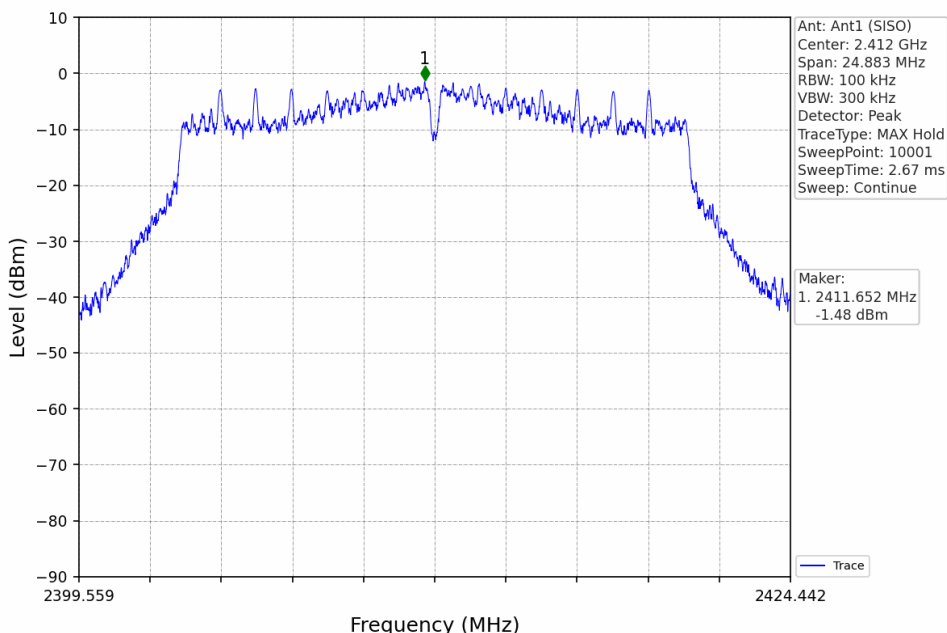
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



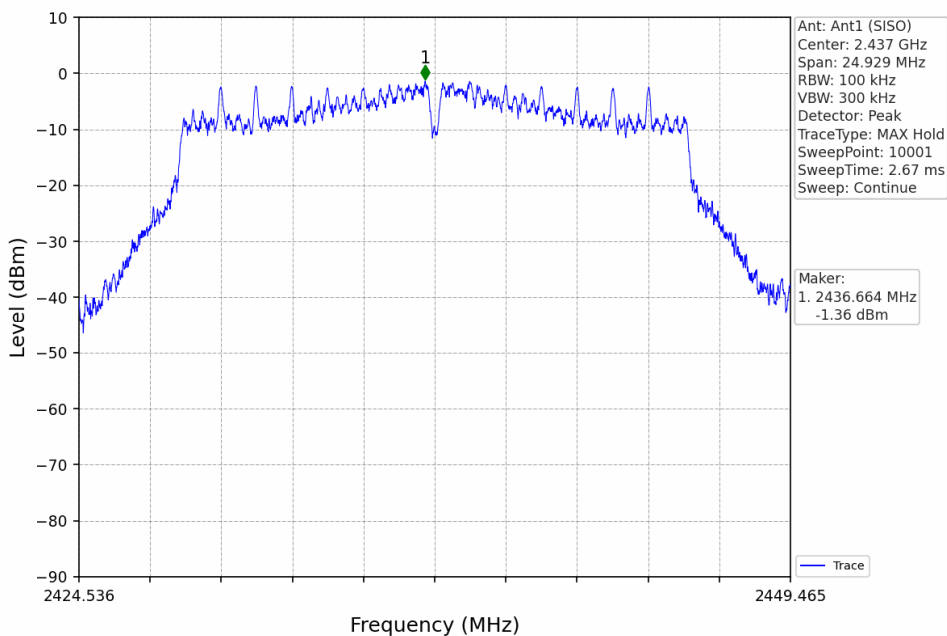
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



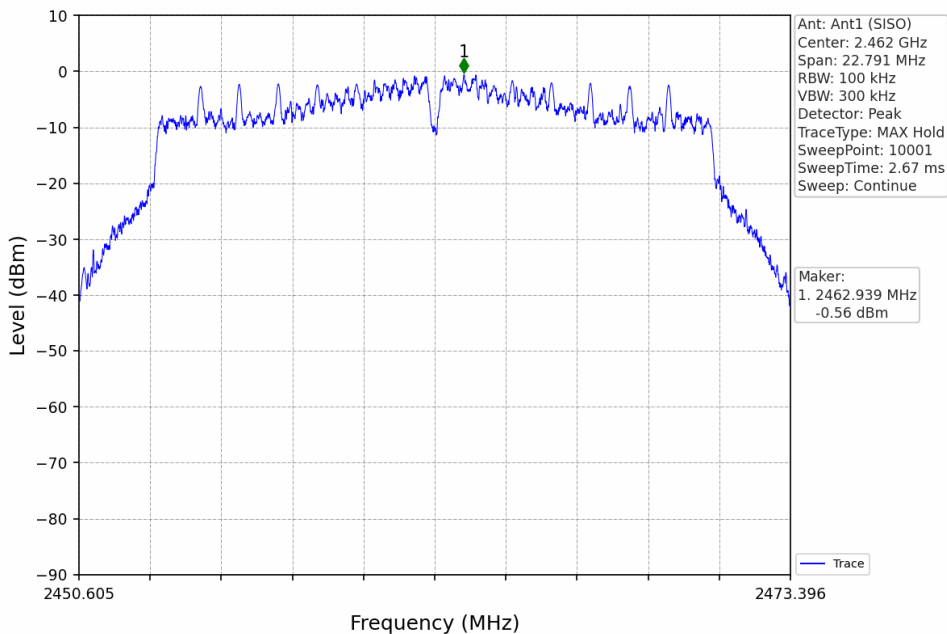
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



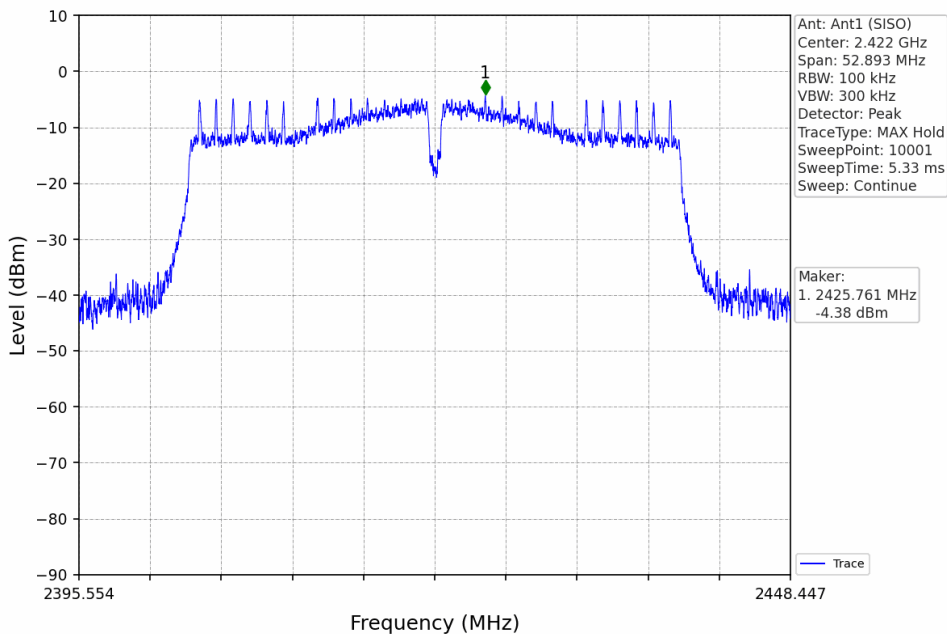
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



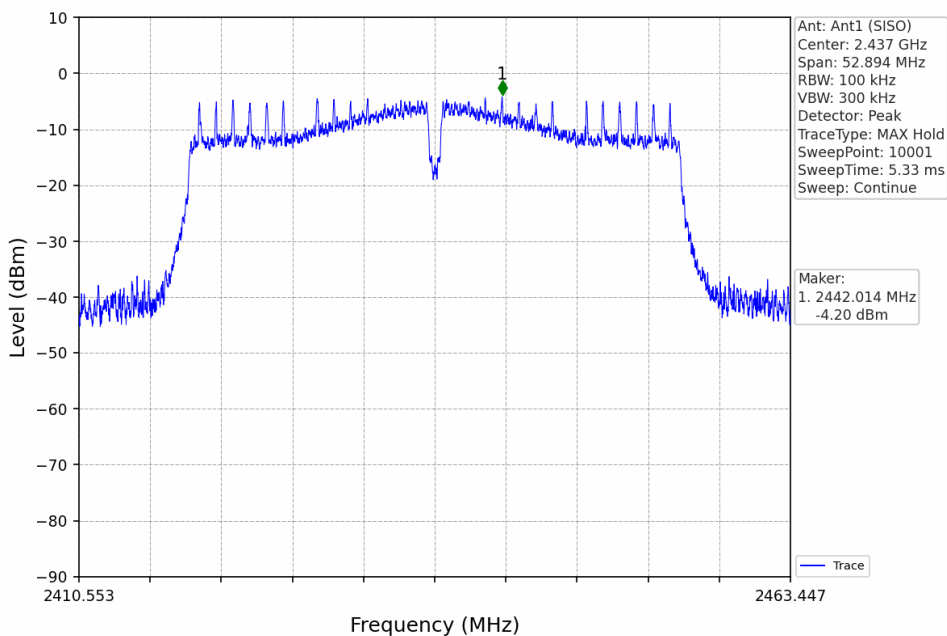
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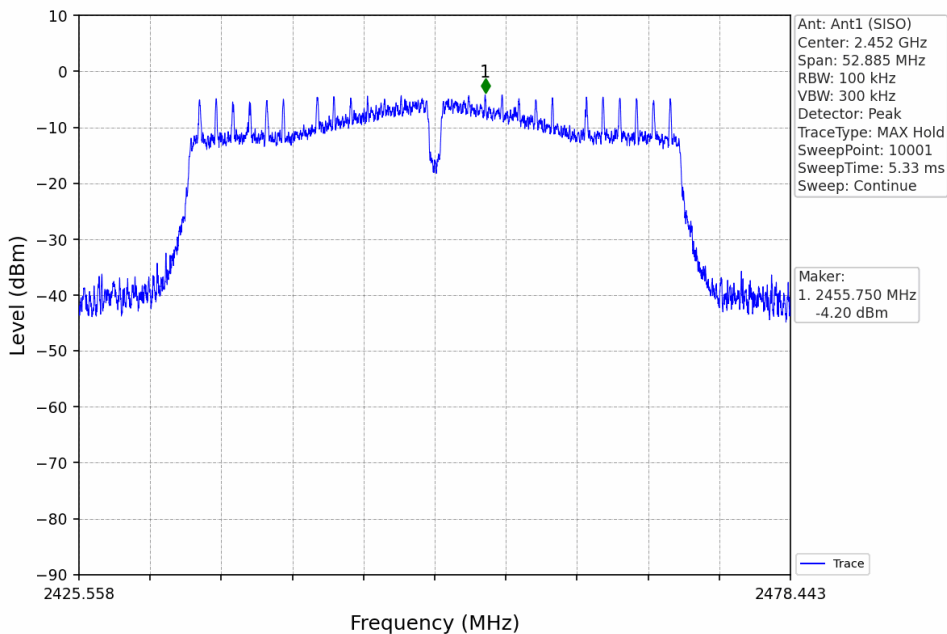
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5.2 CSE

5.2.1 Test Result

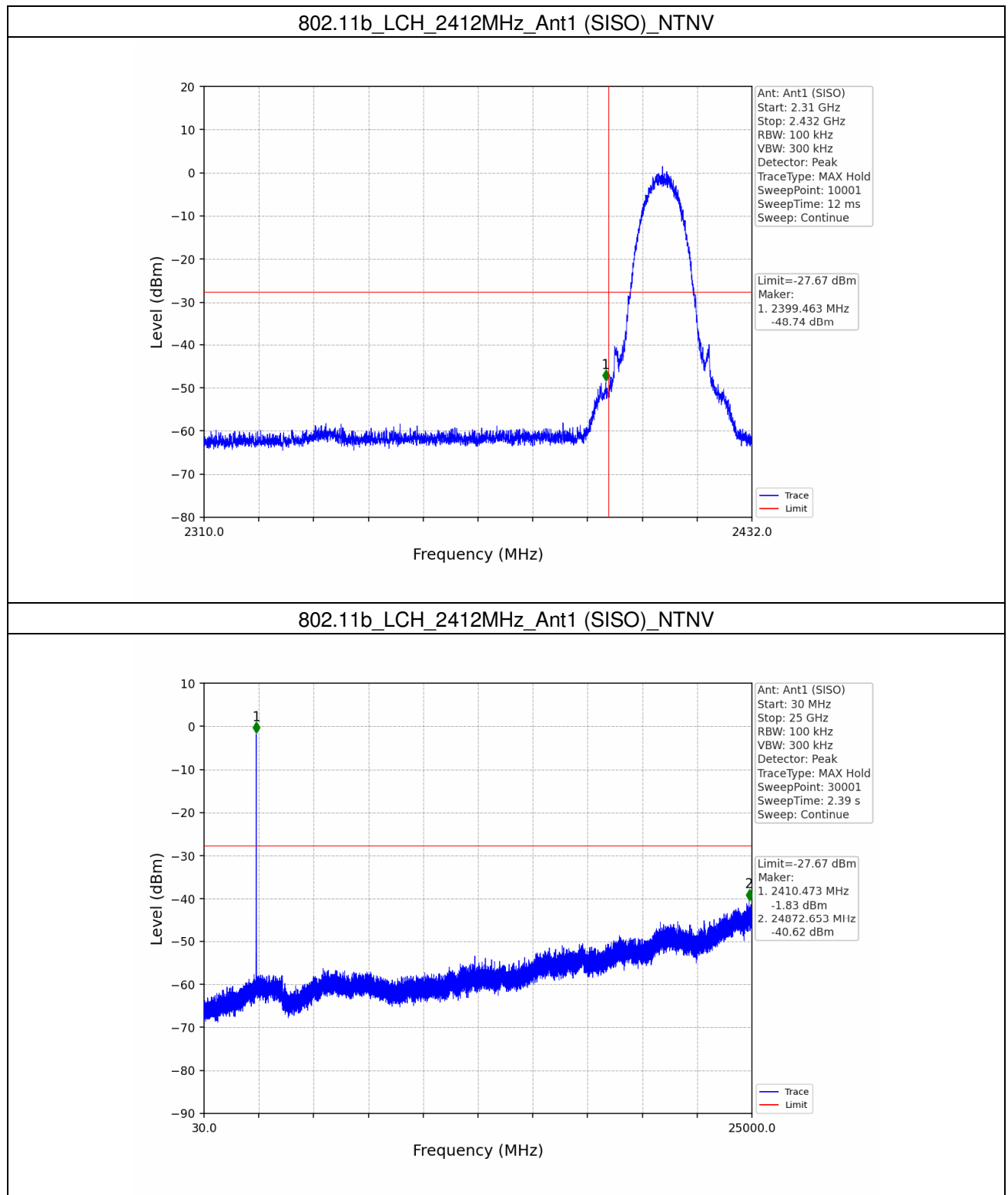
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.33	-27.67	Pass
		2437	1	2.33	-27.67	Pass
		2462	1	2.33	-27.67	Pass
802.11g	SISO	2412	1	-0.19	-30.19	Pass
		2437	1	-0.19	-30.19	Pass
		2462	1	-0.19	-30.19	Pass
802.11n (HT20)	SISO	2412	1	-0.56	-30.56	Pass
		2437	1	-0.56	-30.56	Pass
		2462	1	-0.56	-30.56	Pass
802.11n (HT40)	SISO	2422	1	-4.20	-34.20	Pass
		2437	1	-4.20	-34.20	Pass
		2452	1	-4.20	-34.20	Pass



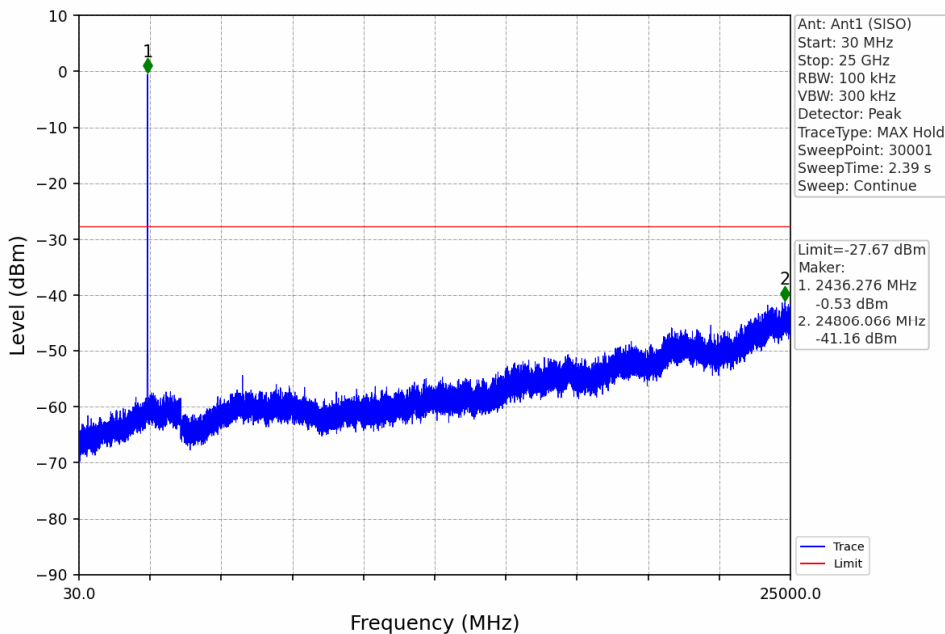
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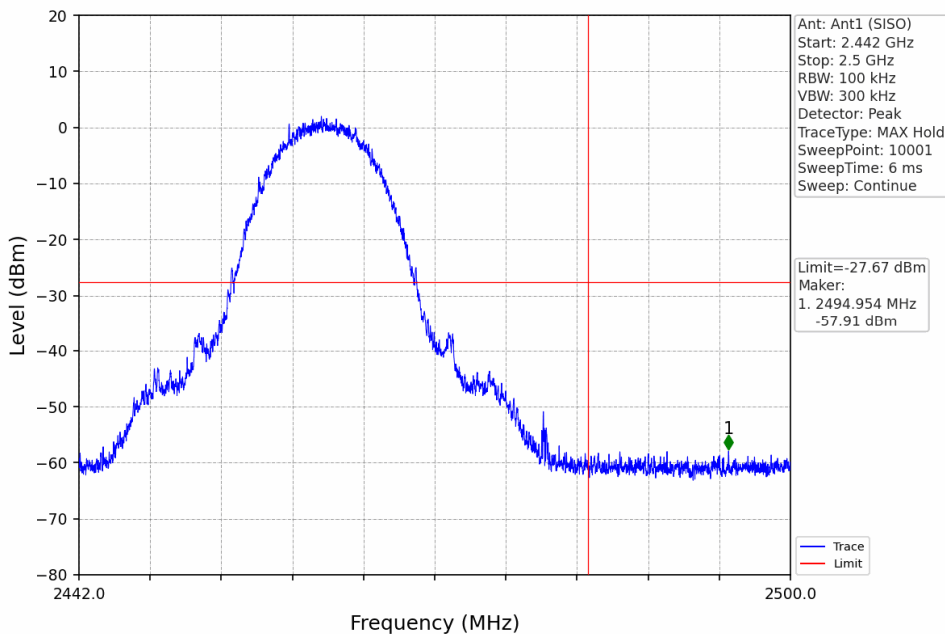
5.2.2 Test Graph



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



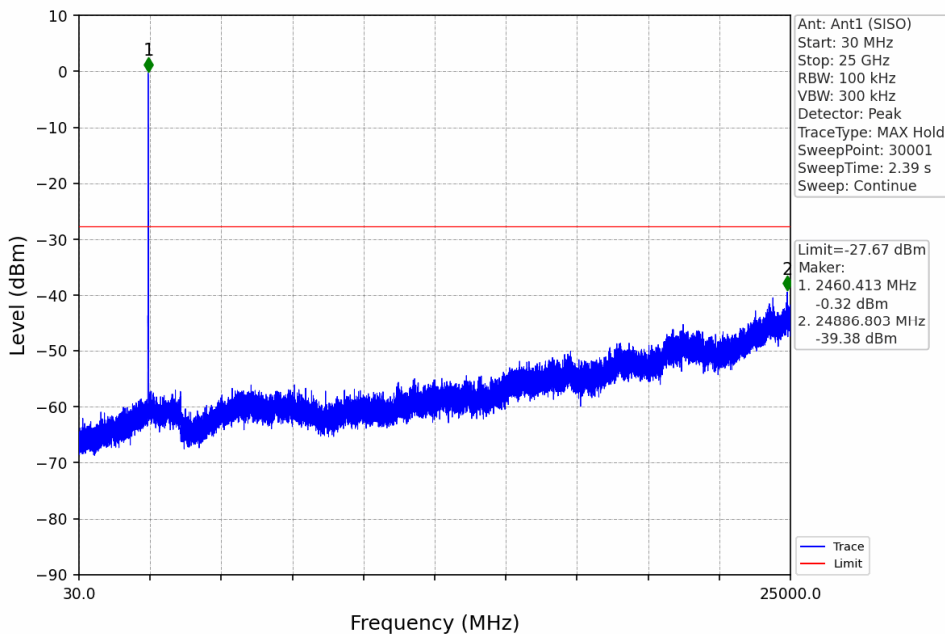
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



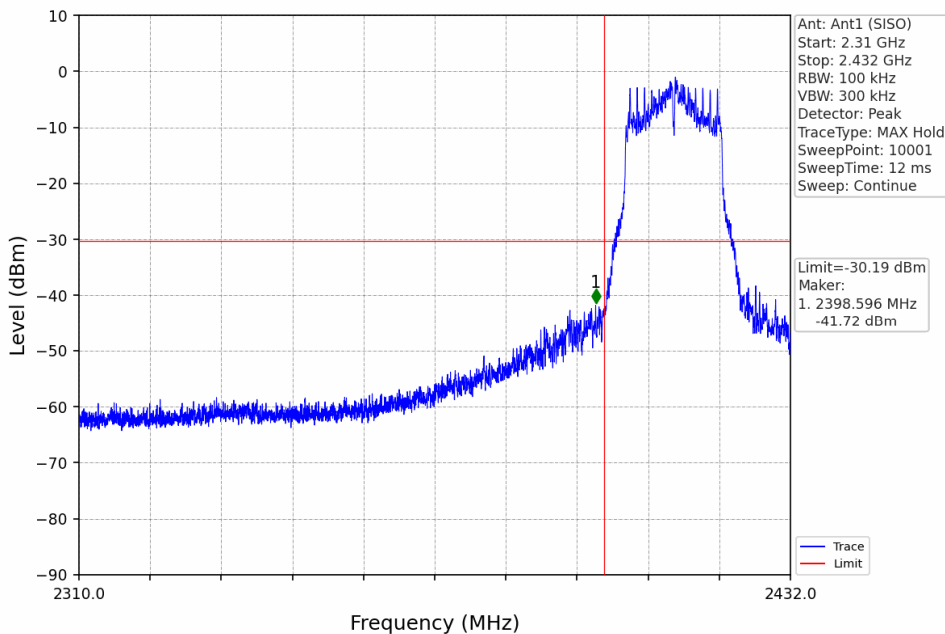
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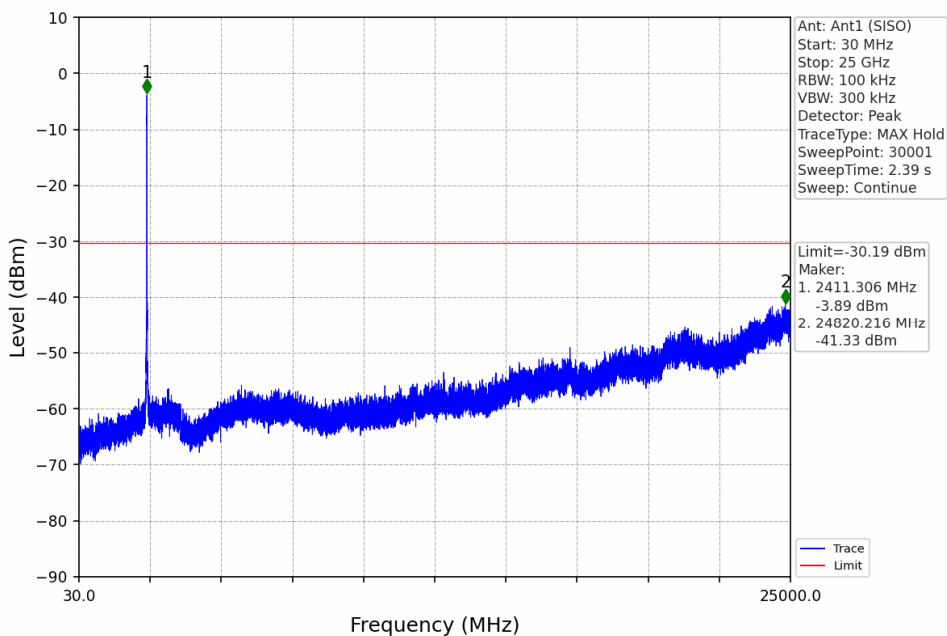
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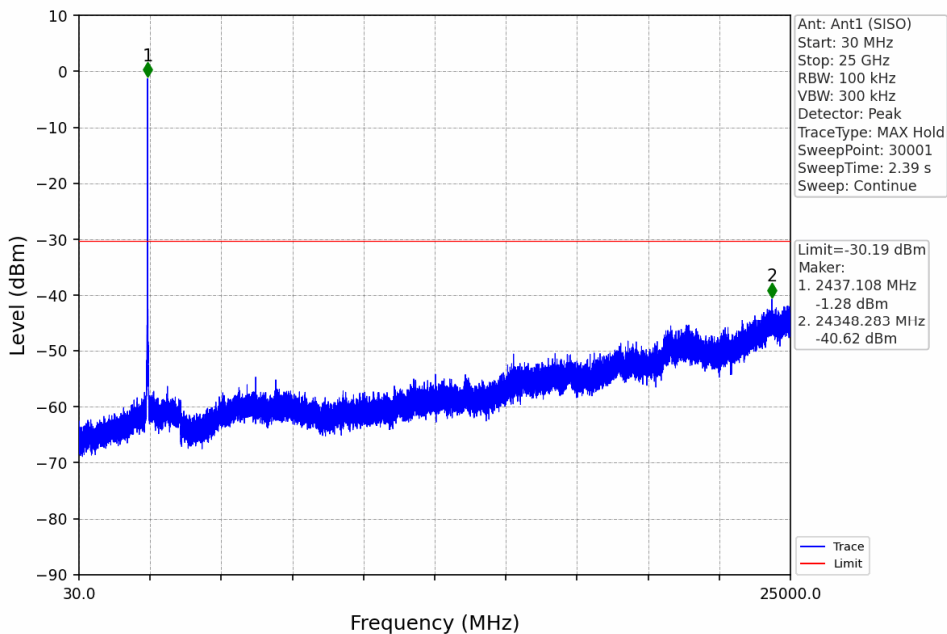
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



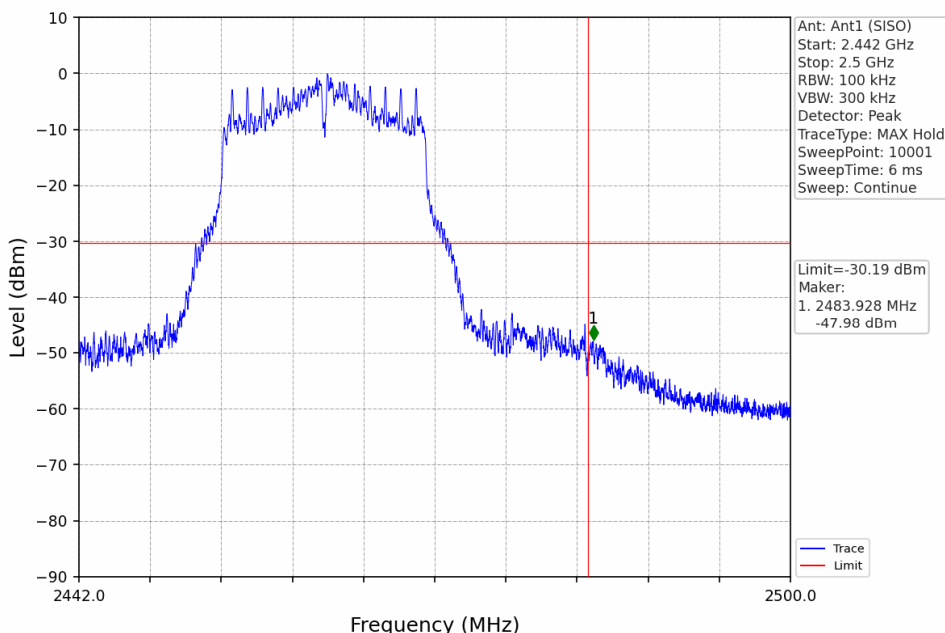
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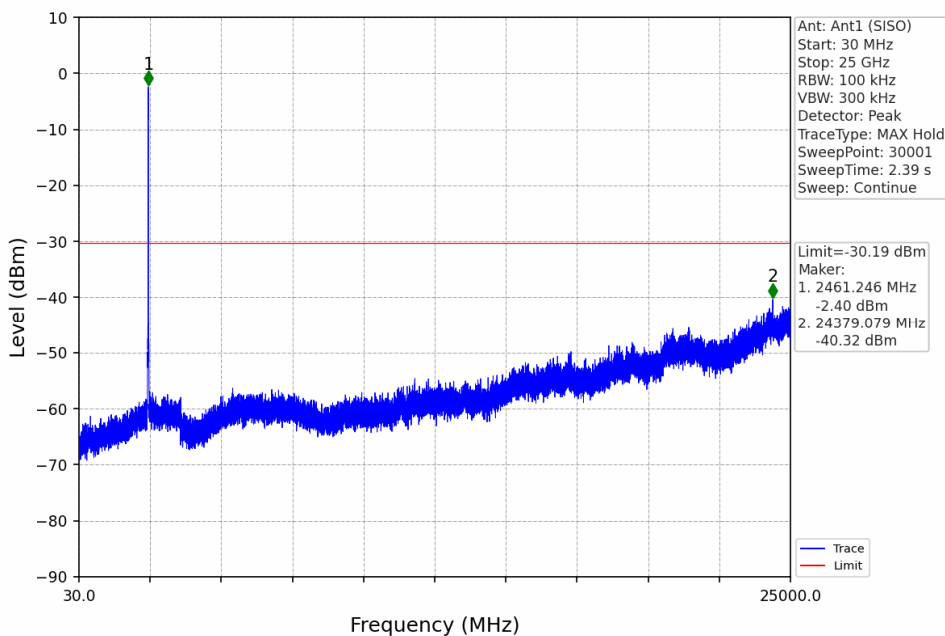
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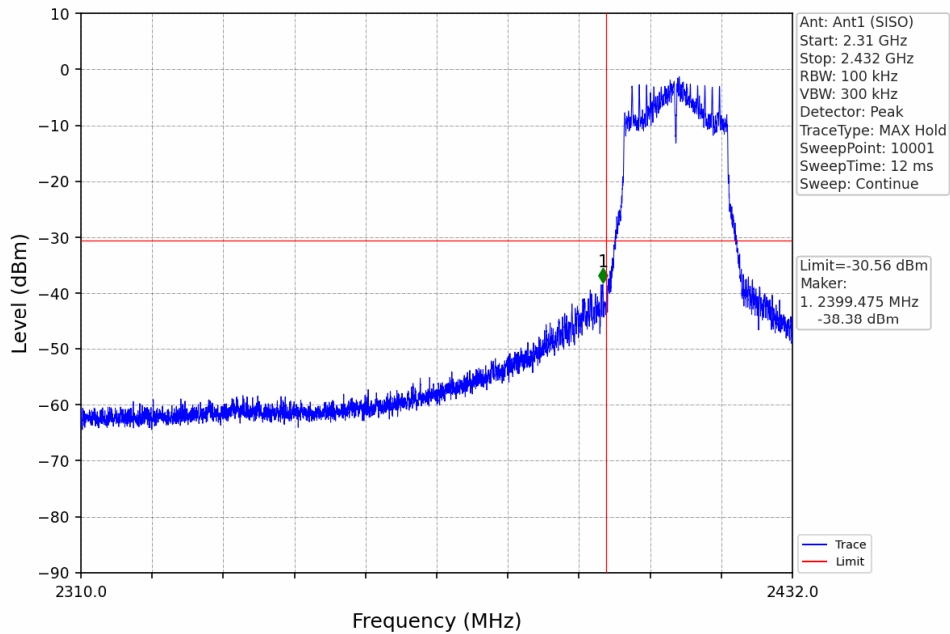
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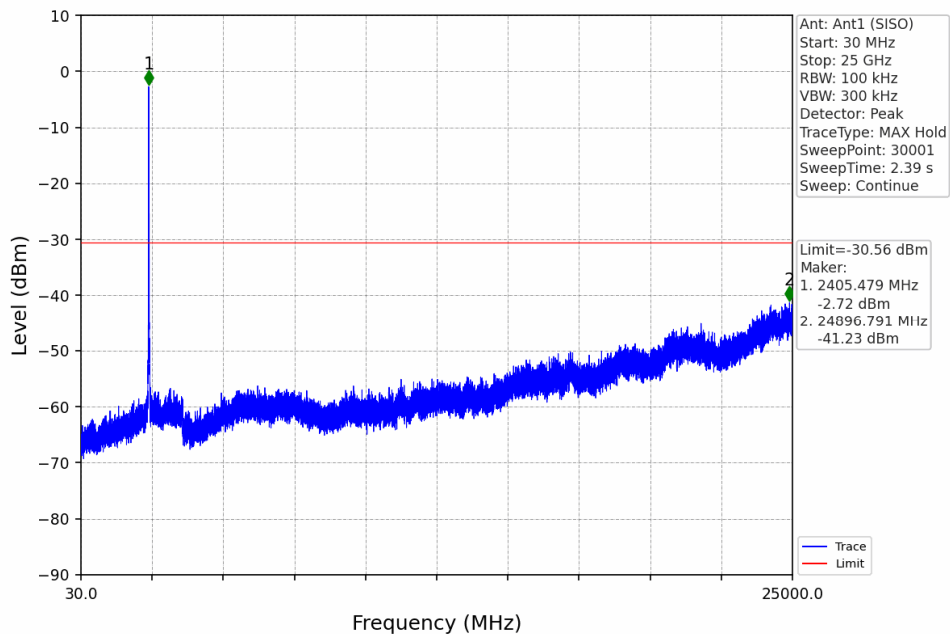
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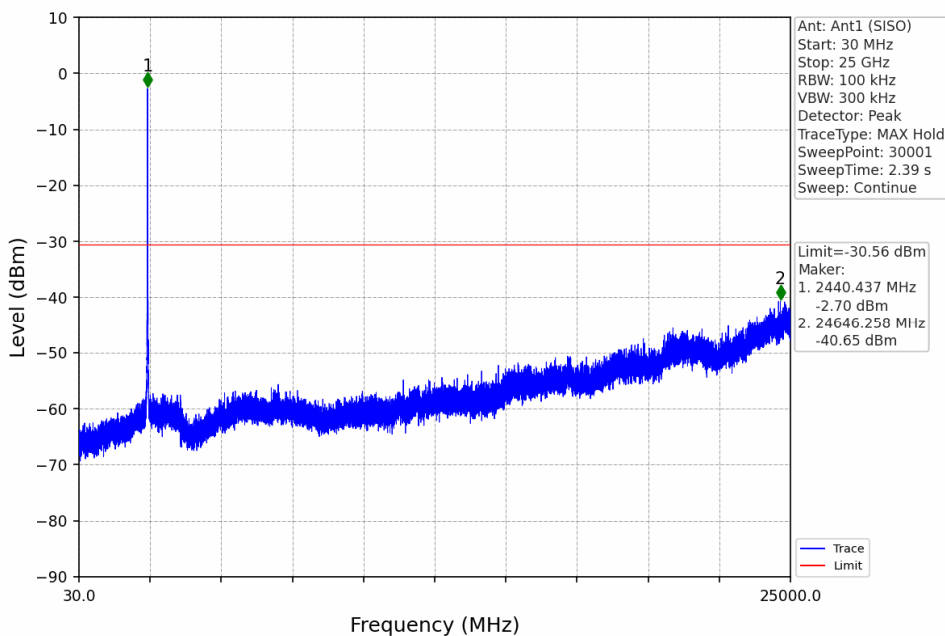
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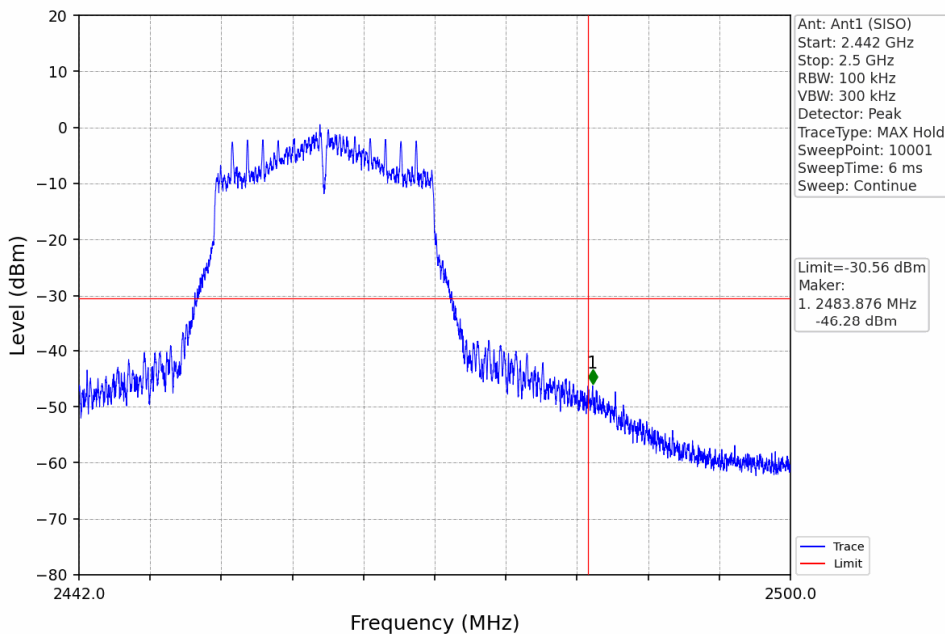
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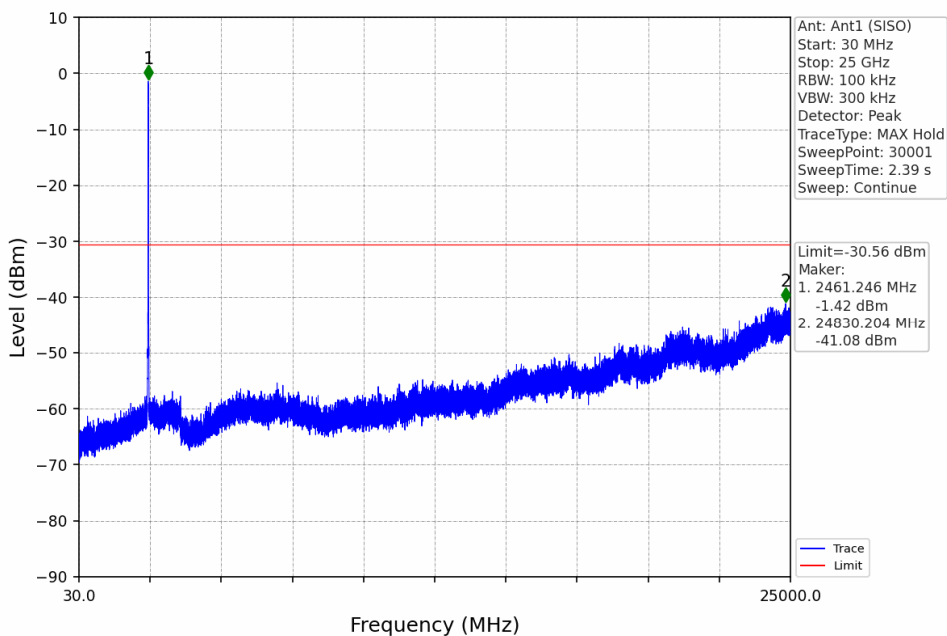
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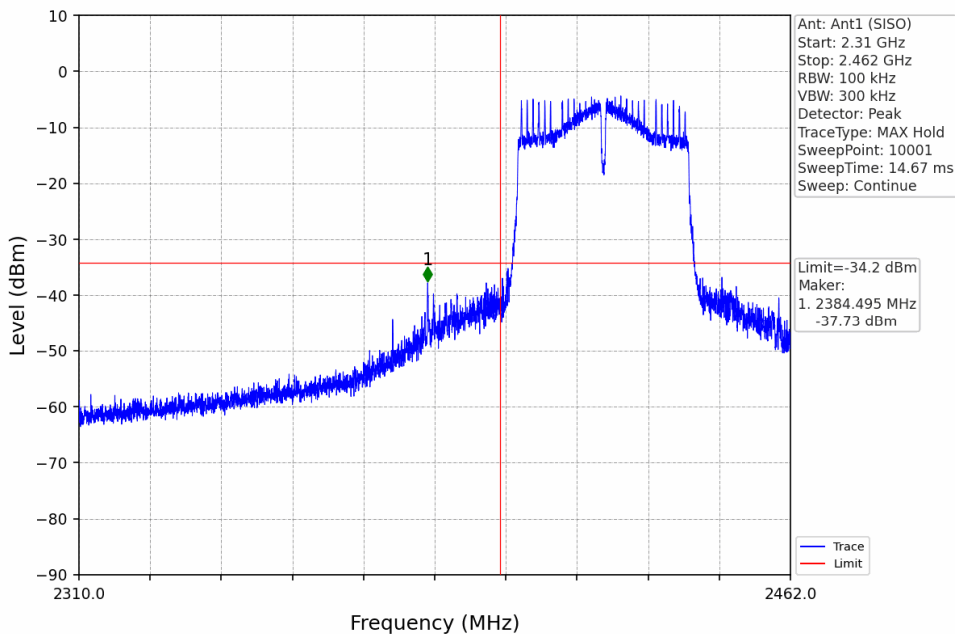
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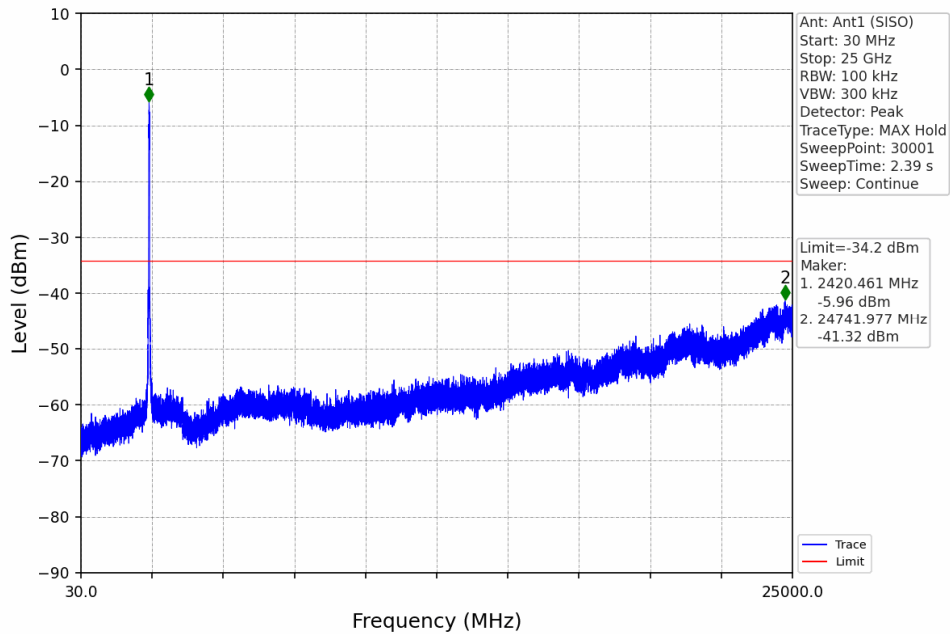
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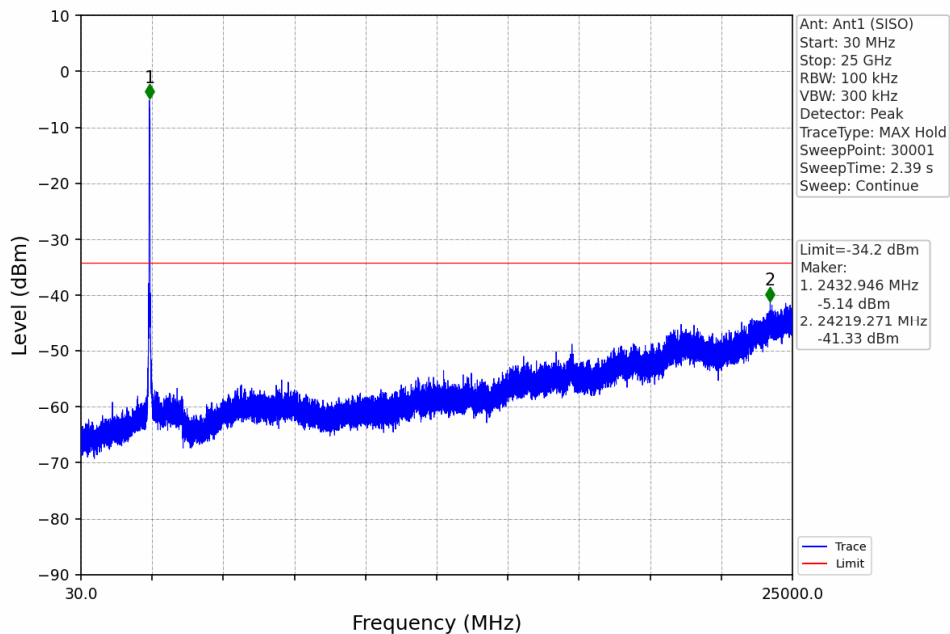
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

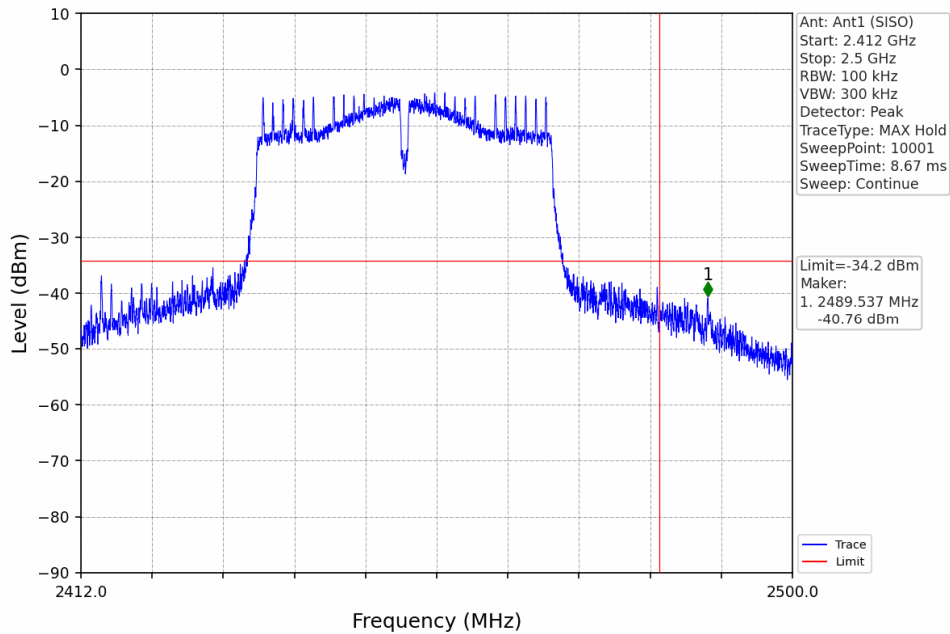


802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

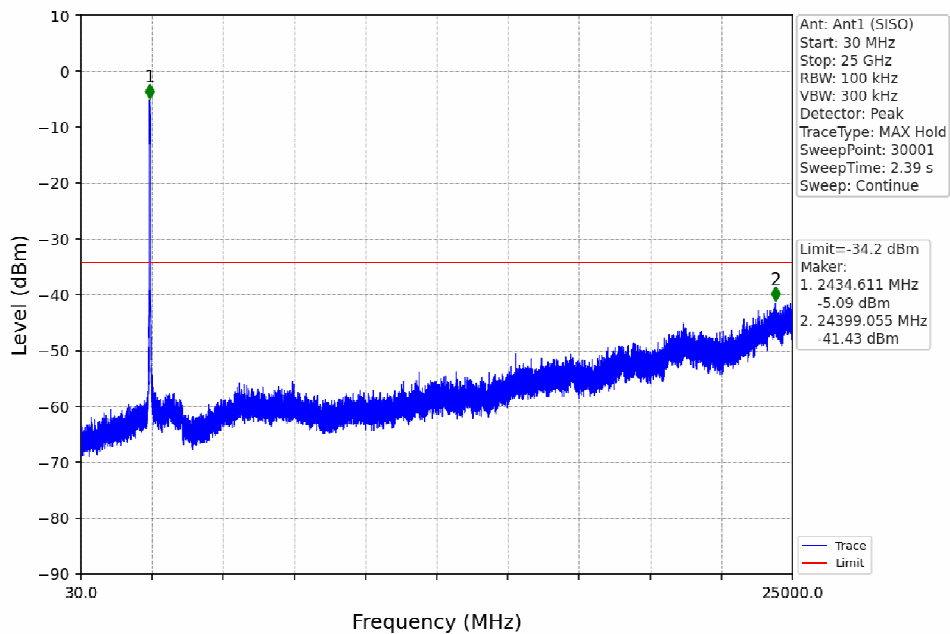


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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



- End of the Report -