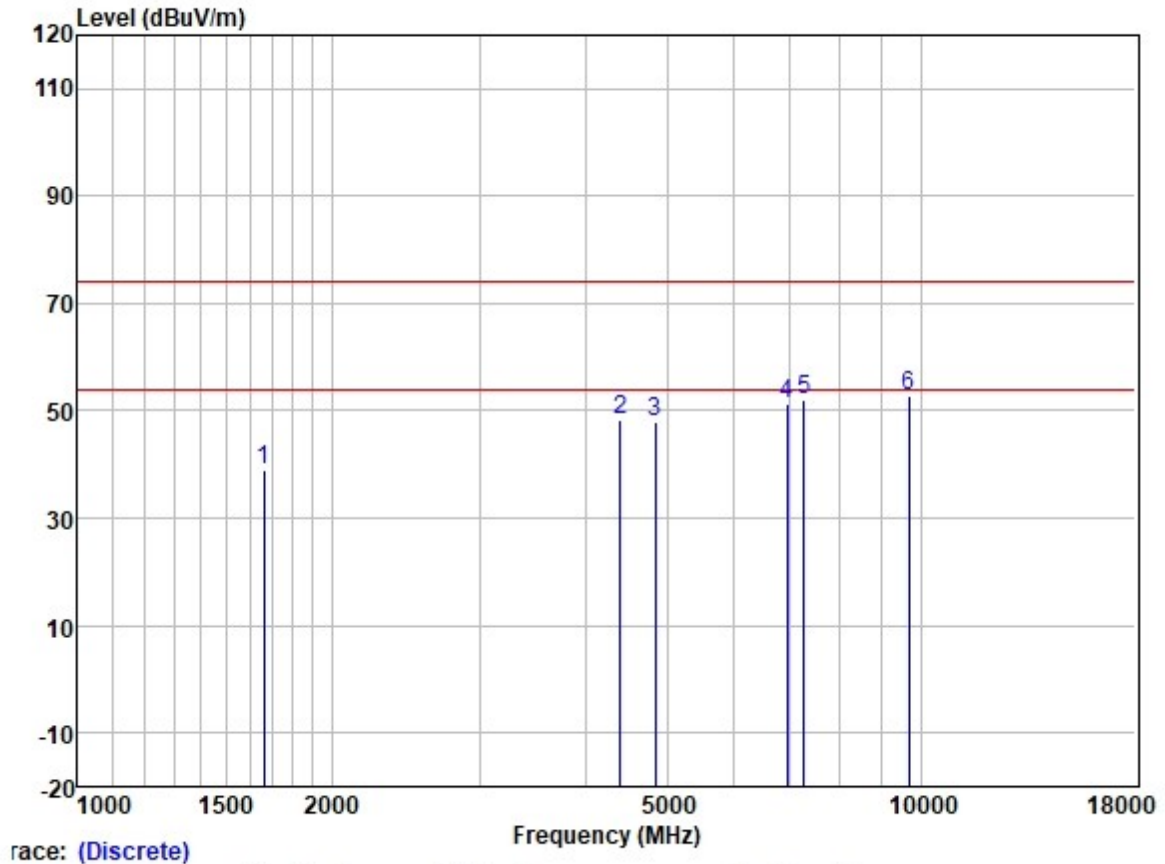
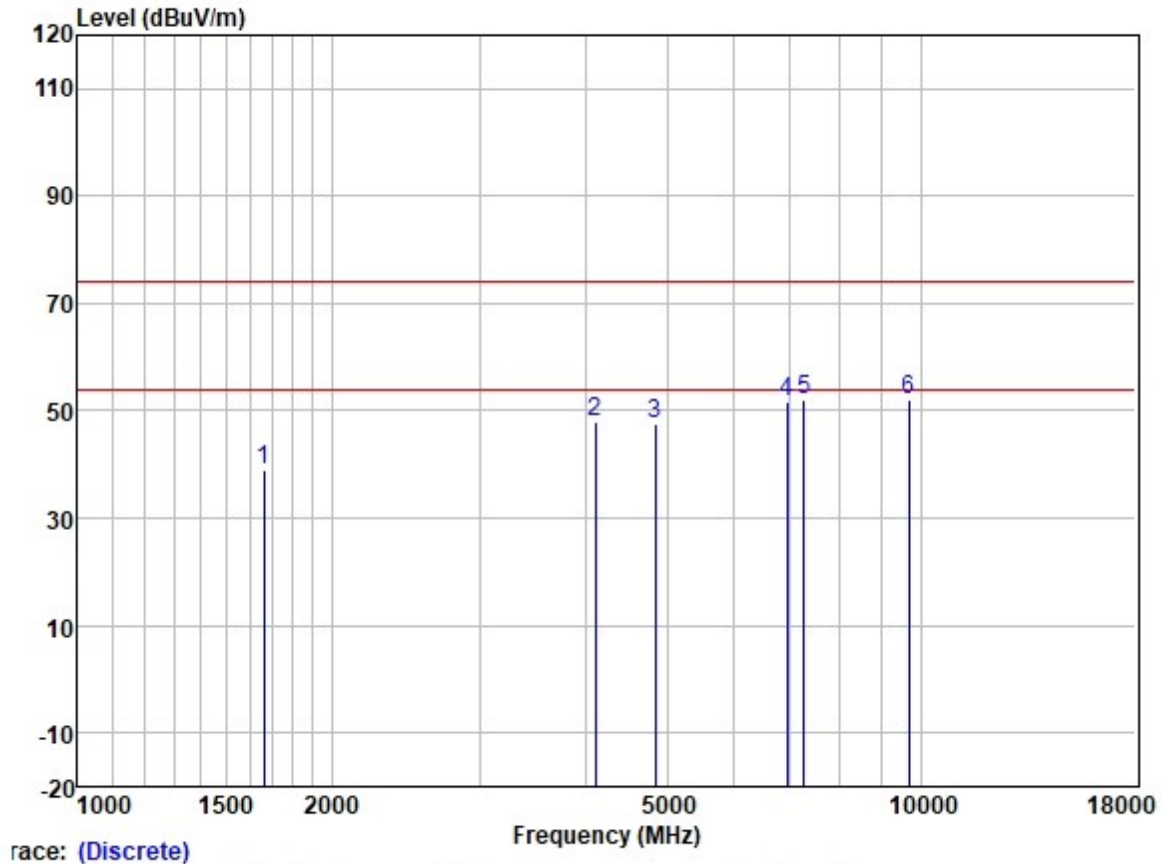


Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



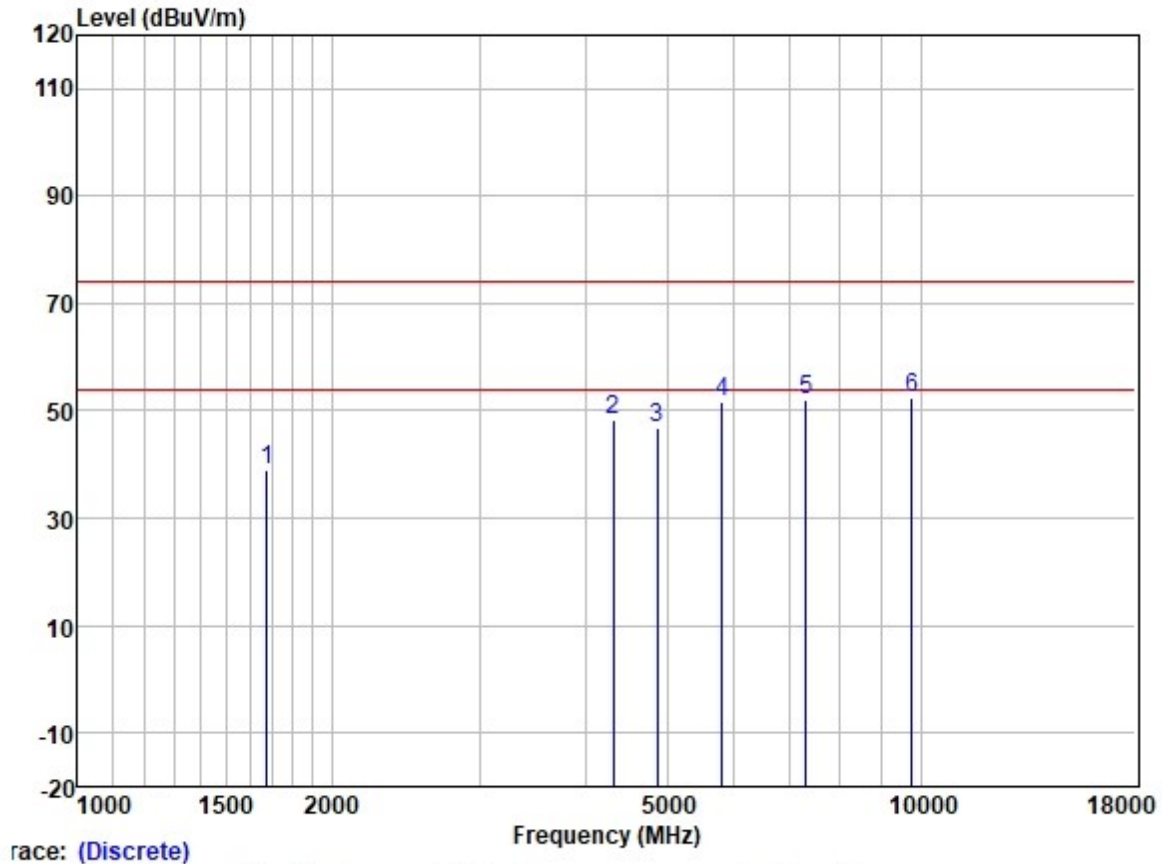
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	48.61	25.65	2.80	37.91	39.15	74.00	-34.85	HORIZONTAL	Peak
2	4405.090	49.87	30.68	4.70	36.81	48.44	74.00	-25.56	HORIZONTAL	Peak
3	4844.000	47.69	31.50	5.45	36.84	47.80	74.00	-26.20	HORIZONTAL	Peak
4	6934.778	47.83	34.92	5.81	37.19	51.37	74.00	-22.63	HORIZONTAL	Peak
5	7266.000	47.50	35.78	6.06	37.41	51.93	74.00	-22.07	HORIZONTAL	Peak
6	9688.000	44.65	38.44	7.04	37.42	52.71	74.00	-21.29	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



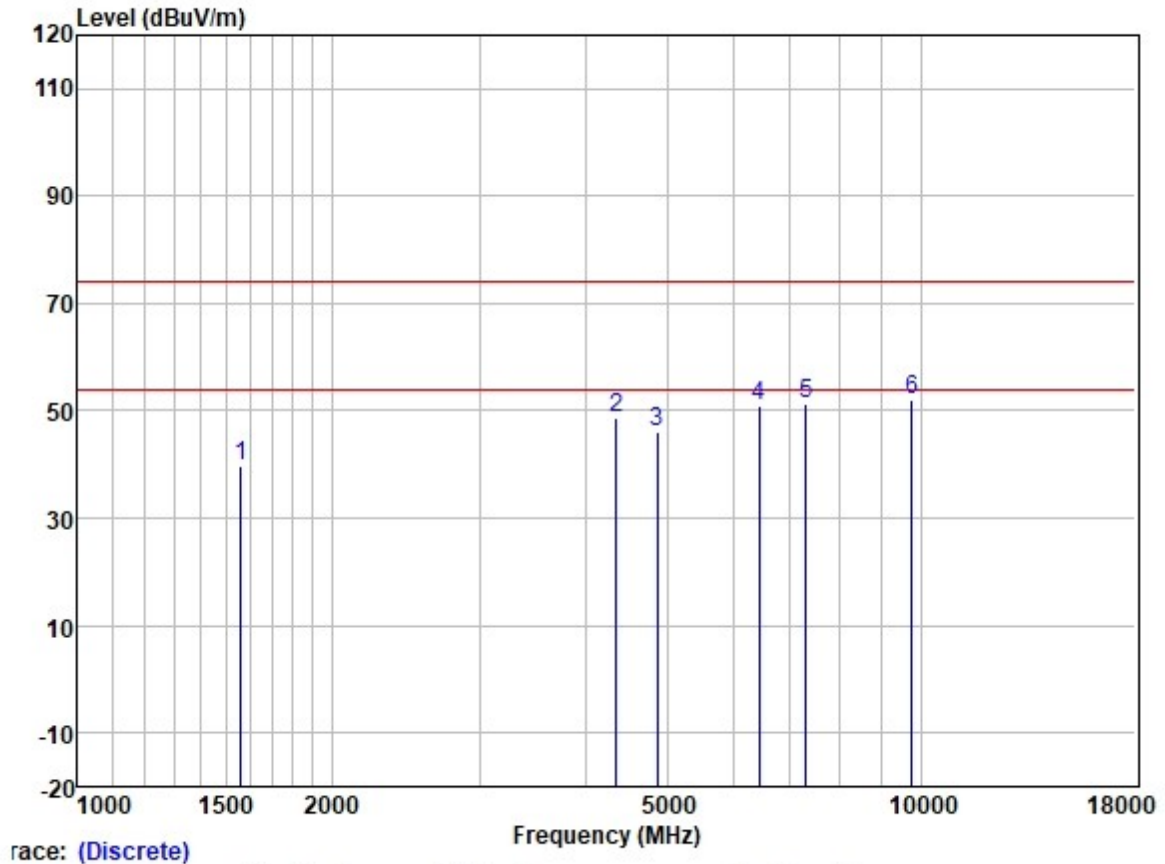
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	48.44	25.65	2.80	37.91	38.98	74.00	-35.02	VERTICAL	Peak
2	4109.872	50.08	29.96	4.60	36.80	47.84	74.00	-26.16	VERTICAL	Peak
3	4844.000	47.58	31.50	5.45	36.84	47.69	74.00	-26.31	VERTICAL	Peak
4	6934.778	48.00	34.92	5.81	37.19	51.54	74.00	-22.46	VERTICAL	Peak
5	7266.000	47.49	35.78	6.06	37.41	51.92	74.00	-22.08	VERTICAL	Peak
6	9688.000	43.97	38.44	7.04	37.42	52.03	74.00	-21.97	VERTICAL	Peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



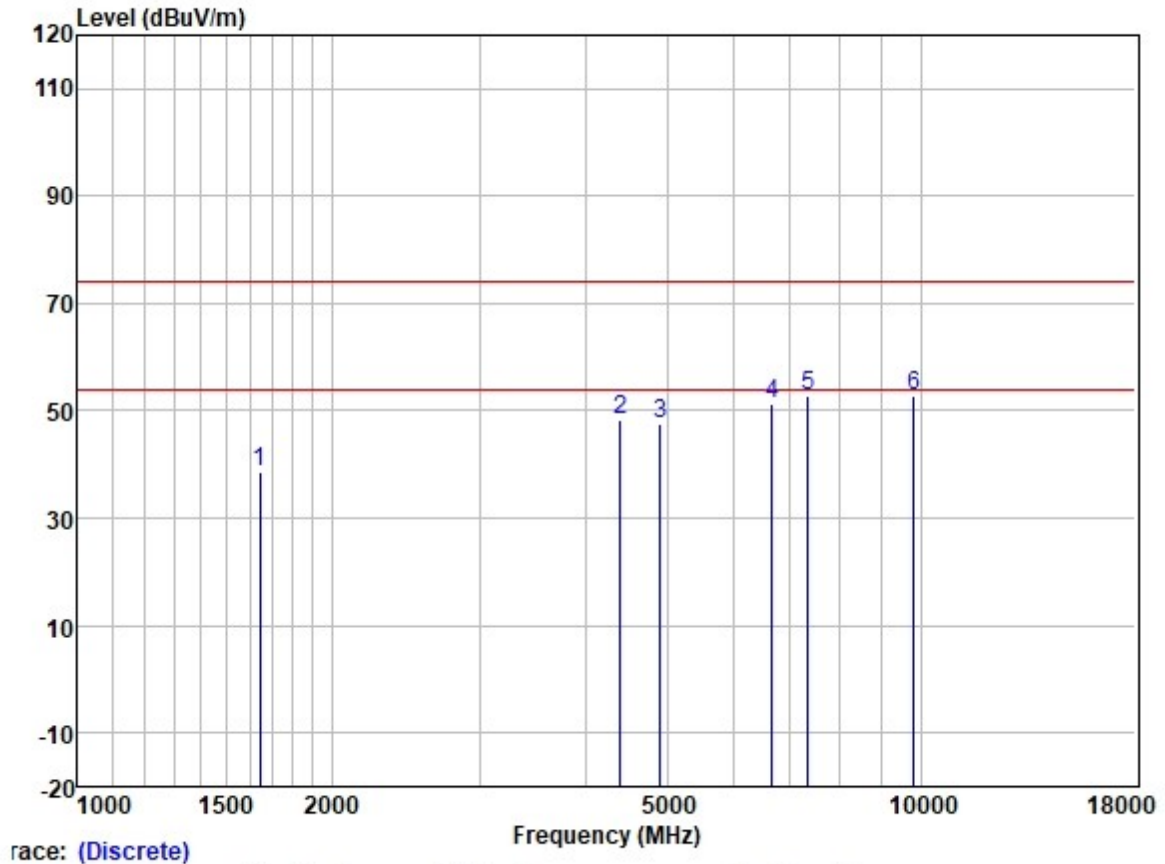
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1677.621	48.38	25.68	2.80	37.91	38.95	74.00	-35.05	HORIZONTAL
2	4316.859	50.05	30.51	4.66	36.81	48.41	74.00	-25.59	HORIZONTAL
3	4874.000	46.74	31.54	5.50	36.84	46.94	74.00	-27.06	HORIZONTAL
4	5813.812	50.21	32.21	6.07	36.90	51.59	74.00	-22.41	HORIZONTAL
5	7311.000	47.45	35.93	6.11	37.42	52.07	74.00	-21.93	HORIZONTAL
6	9748.000	44.28	38.50	7.02	37.41	52.39	74.00	-21.61	HORIZONTAL

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



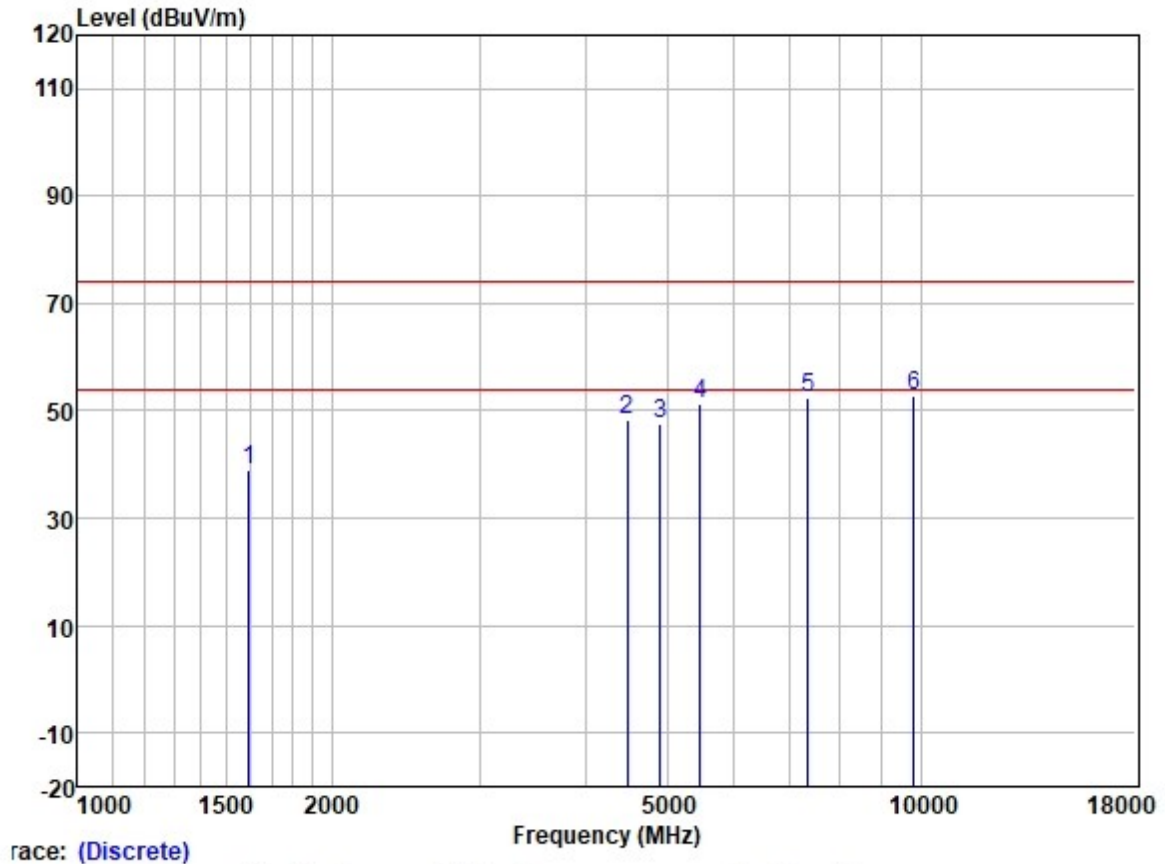
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1560.673	49.25	25.54	2.80	38.03	39.56	74.00	-34.44	VERTICAL	Peak
2	4354.454	50.15	30.59	4.68	36.81	48.61	74.00	-25.39	VERTICAL	Peak
3	4874.000	45.86	31.54	5.50	36.84	46.06	74.00	-27.94	VERTICAL	Peak
4	6432.732	48.34	33.83	5.88	36.99	51.06	74.00	-22.94	VERTICAL	Peak
5	7311.000	46.70	35.93	6.11	37.42	51.32	74.00	-22.68	VERTICAL	Peak
6	9748.000	44.08	38.50	7.02	37.41	52.19	74.00	-21.81	VERTICAL	Peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	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	1644.019	48.13	25.63	2.80	37.93	38.63	74.00	-35.37	HORIZONTAL Peak
2	4405.090	49.67	30.68	4.70	36.81	48.24	74.00	-25.76	HORIZONTAL Peak
3	4904.000	47.44	31.58	5.55	36.84	47.73	74.00	-26.27	HORIZONTAL Peak
4	6659.763	48.22	34.29	5.83	37.06	51.28	74.00	-22.72	HORIZONTAL Peak
5	7356.000	48.10	36.06	6.15	37.44	52.87	74.00	-21.13	HORIZONTAL Peak
6	9808.000	44.48	38.56	7.00	37.41	52.63	74.00	-21.37	HORIZONTAL Peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1597.181	48.56	25.58	2.80	37.98	38.96	74.00	-35.04	VERTICAL Peak
2	4482.150	49.32	30.78	4.99	36.81	48.28	74.00	-25.72	VERTICAL Peak
3	4904.000	47.13	31.58	5.55	36.84	47.42	74.00	-26.58	VERTICAL Peak
4	5471.422	50.19	31.80	6.31	36.88	51.42	74.00	-22.58	VERTICAL Peak
5	7356.000	47.72	36.06	6.15	37.44	52.49	74.00	-21.51	VERTICAL Peak
6	9808.000	44.57	38.56	7.00	37.41	52.72	74.00	-21.28	VERTICAL Peak



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7.10 Duty Cycle

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

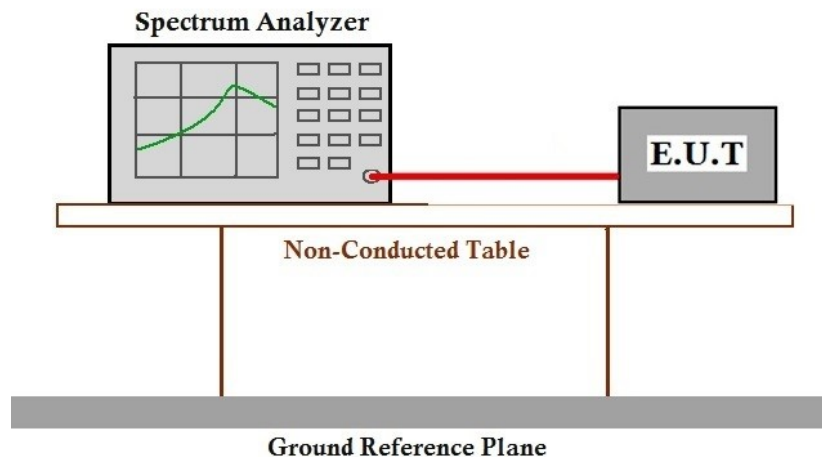
7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 24.7 °C Humidity: 55.6 % RH Atmospheric Pressure: 1003 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to External and Setup Photos for GZCR2111021424AT.

2 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2111021424AT

3 Appendix

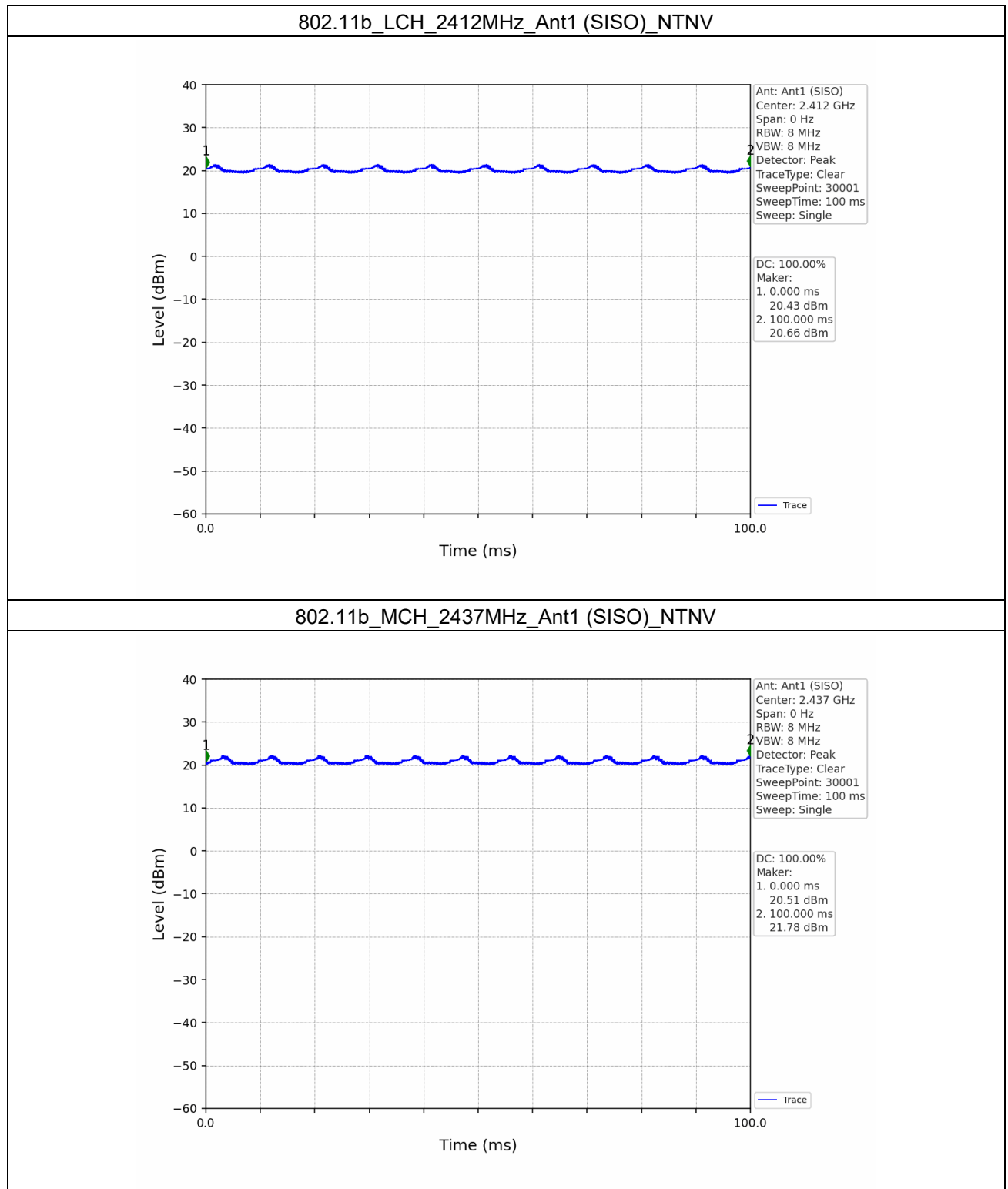
1. Duty Cycle

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	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00

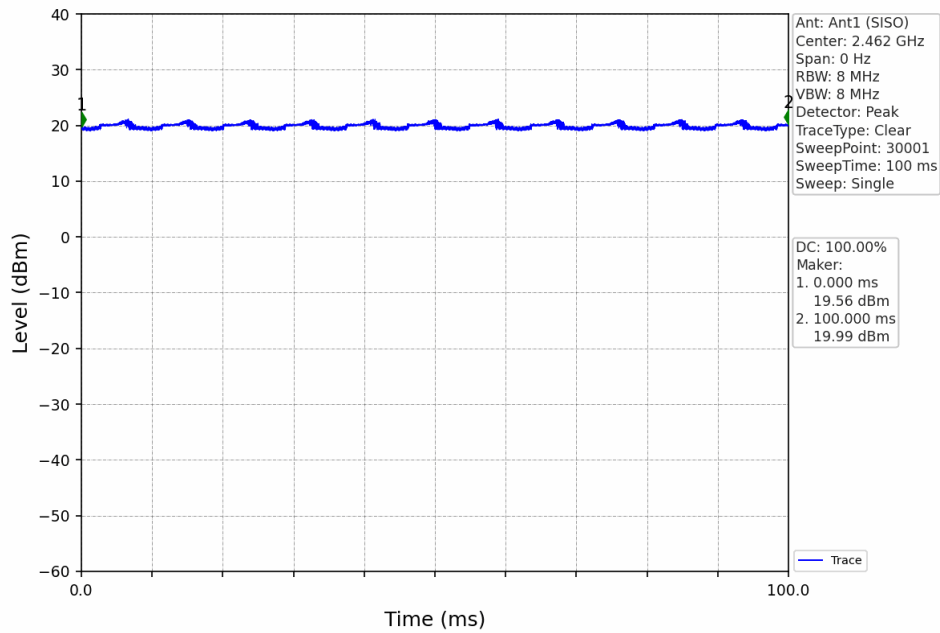
1.1.2 Test Graph



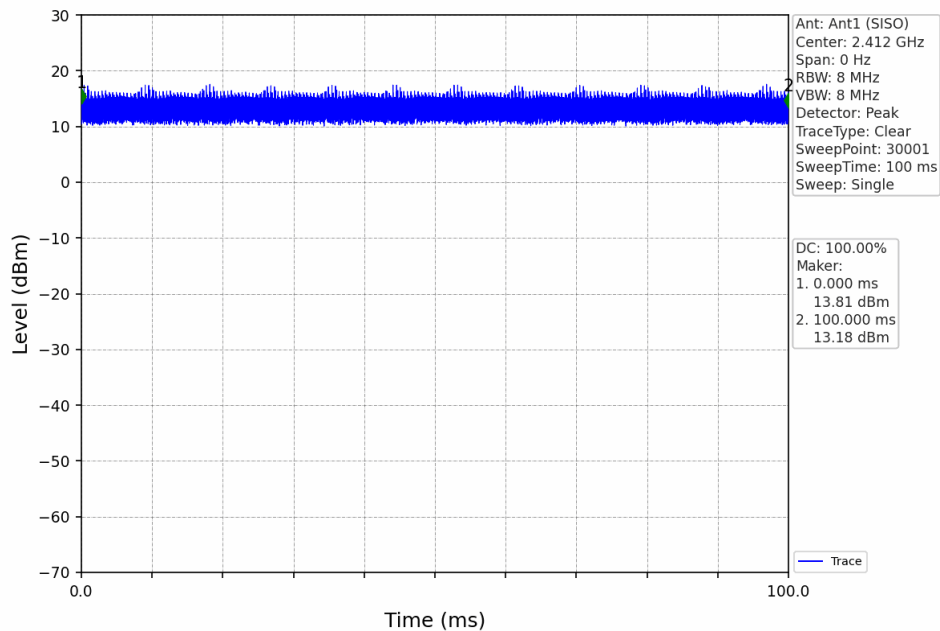
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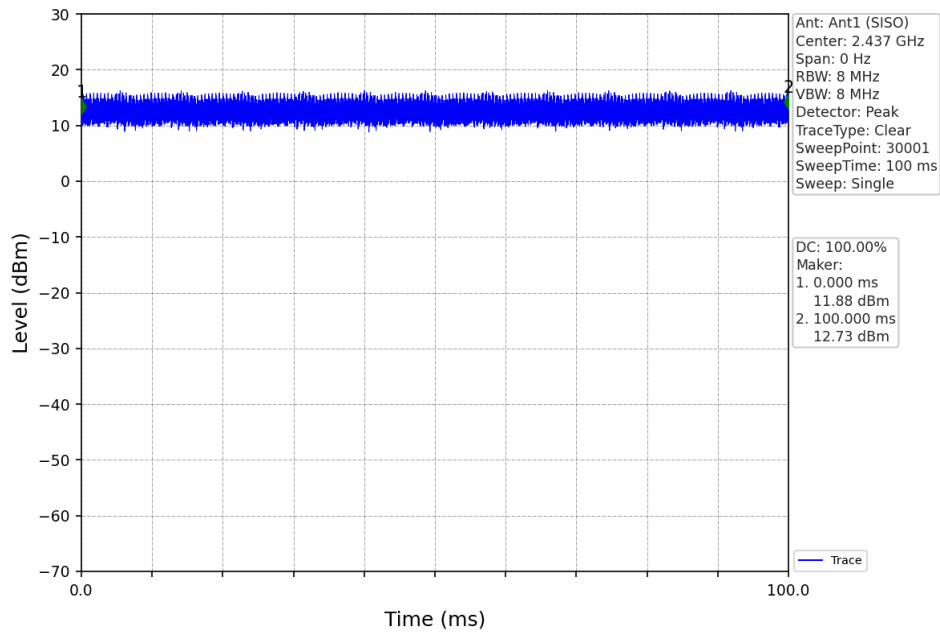
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



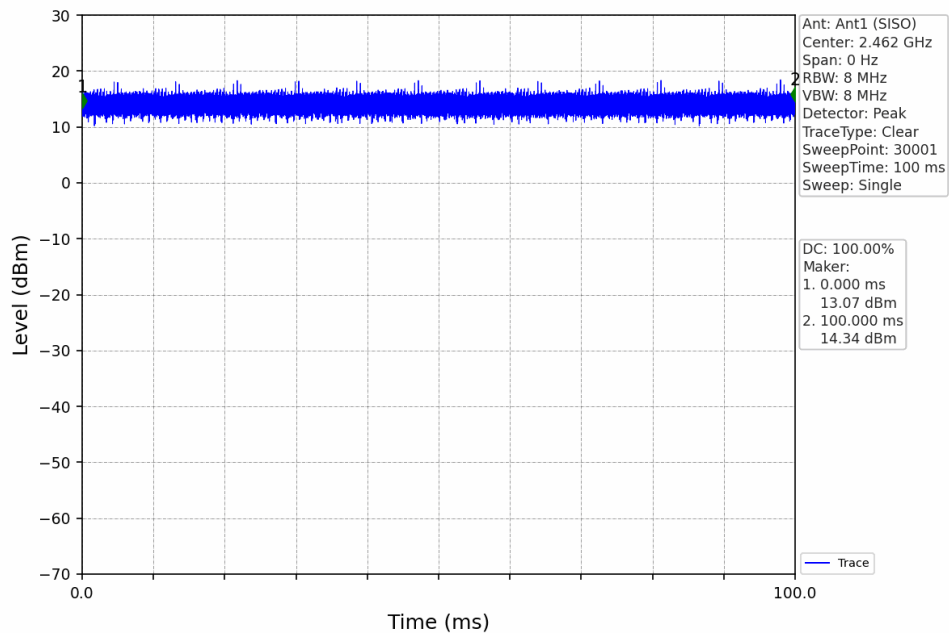
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



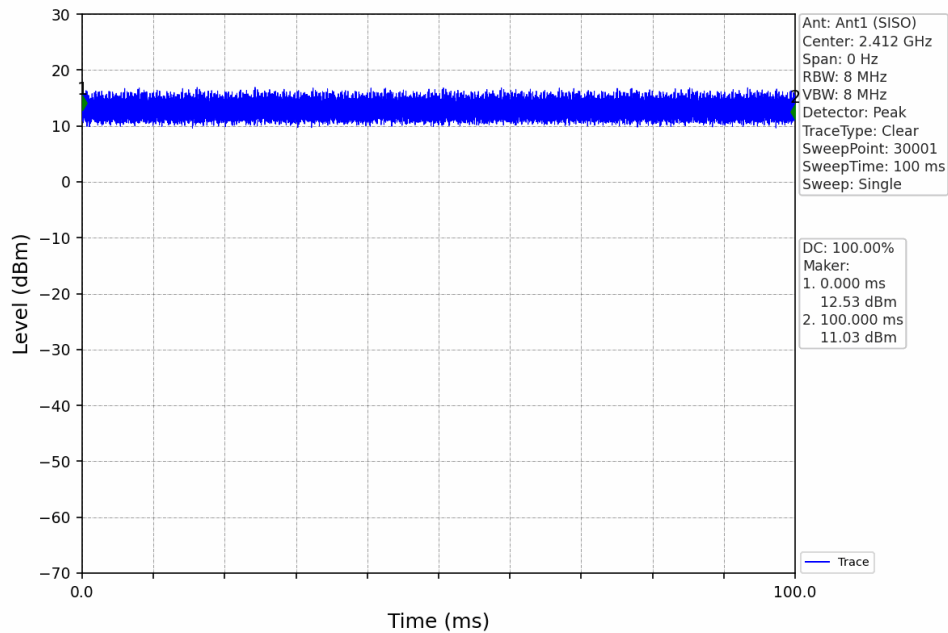
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



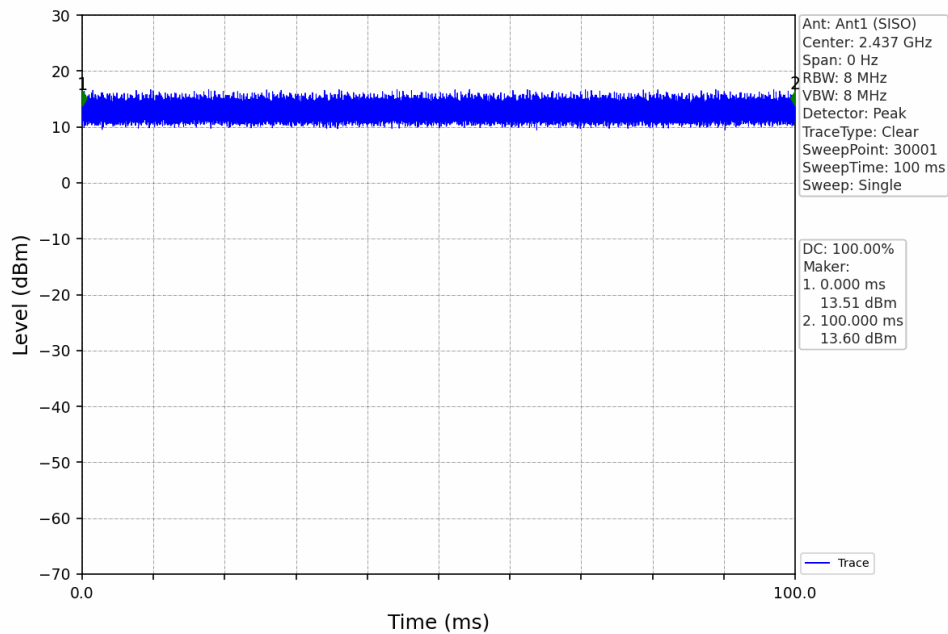
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



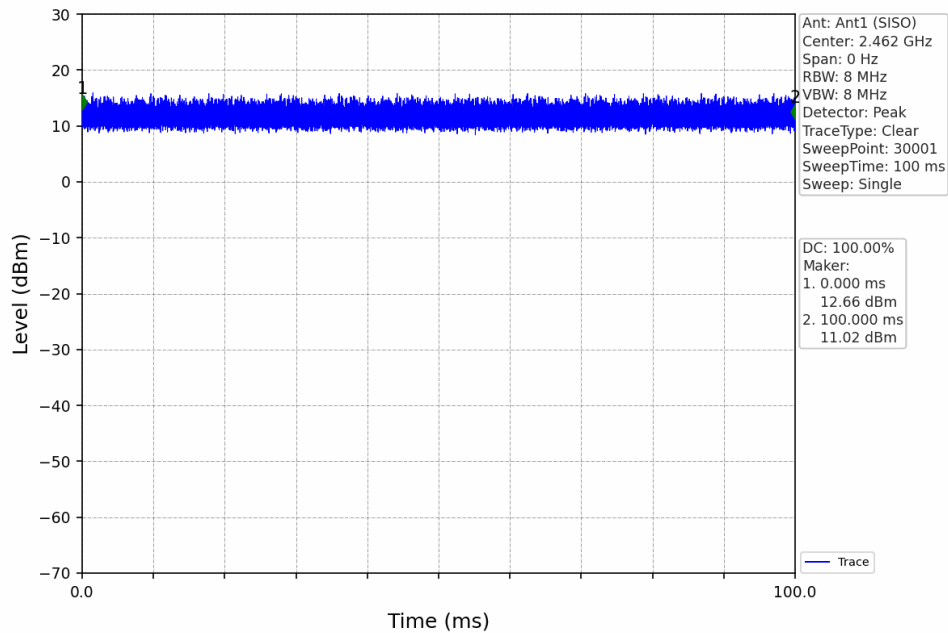
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



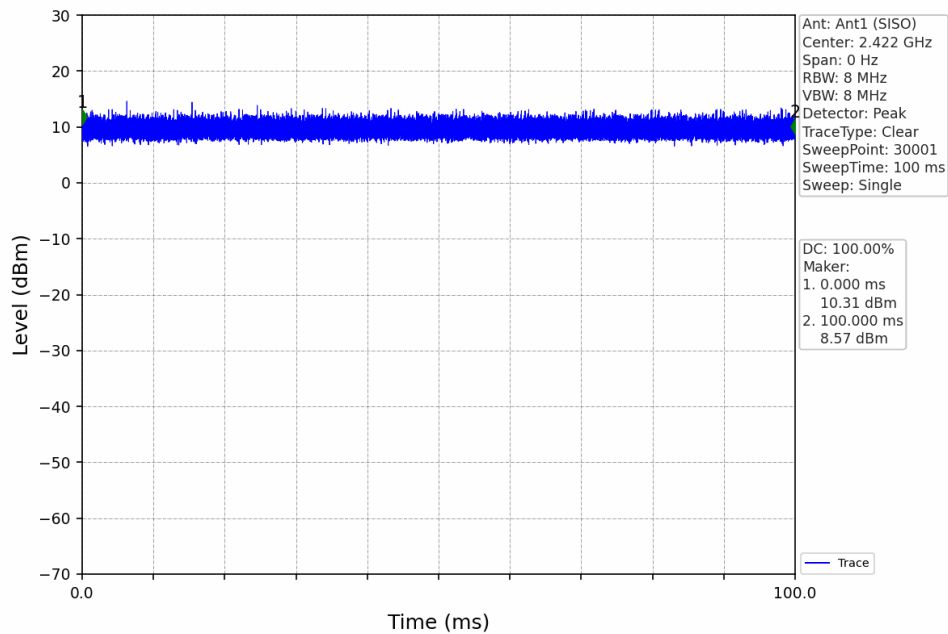
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



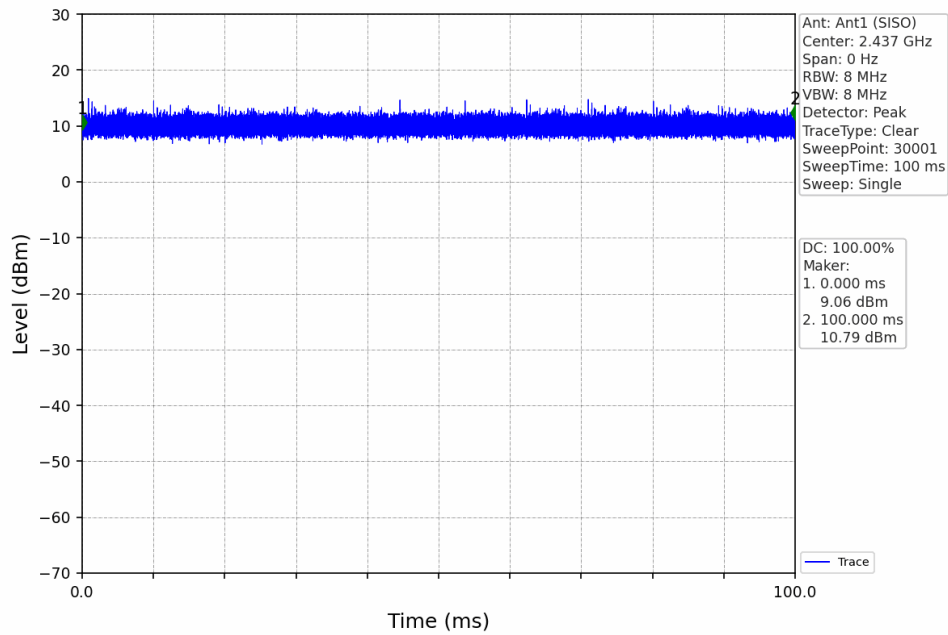
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



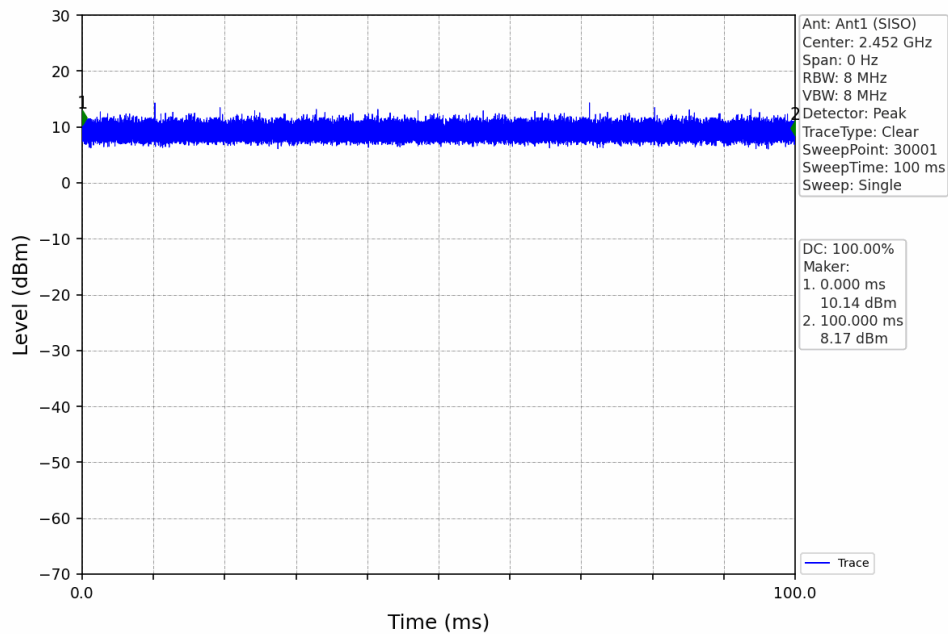
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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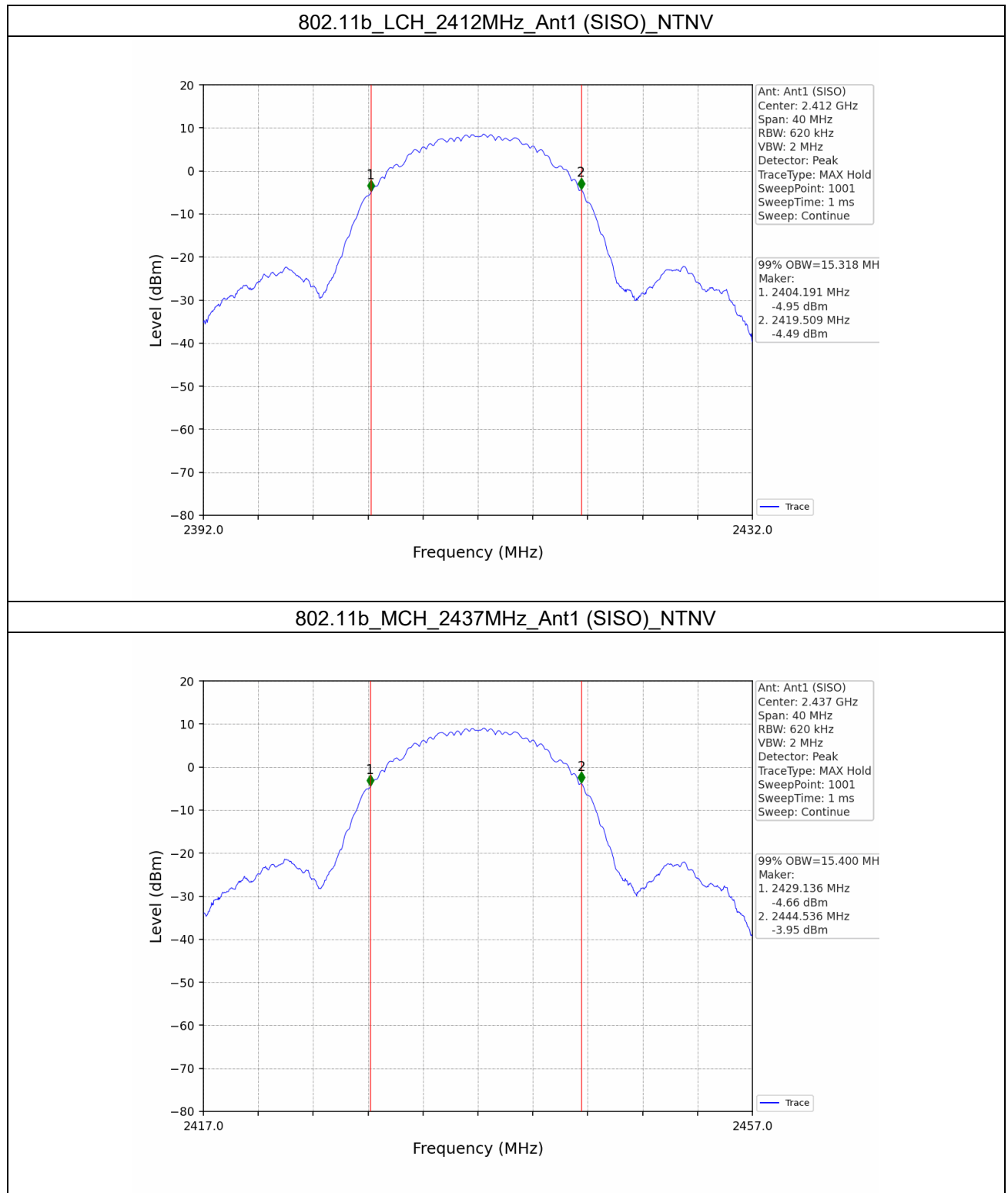
2. Bandwidth

2.1 OBW

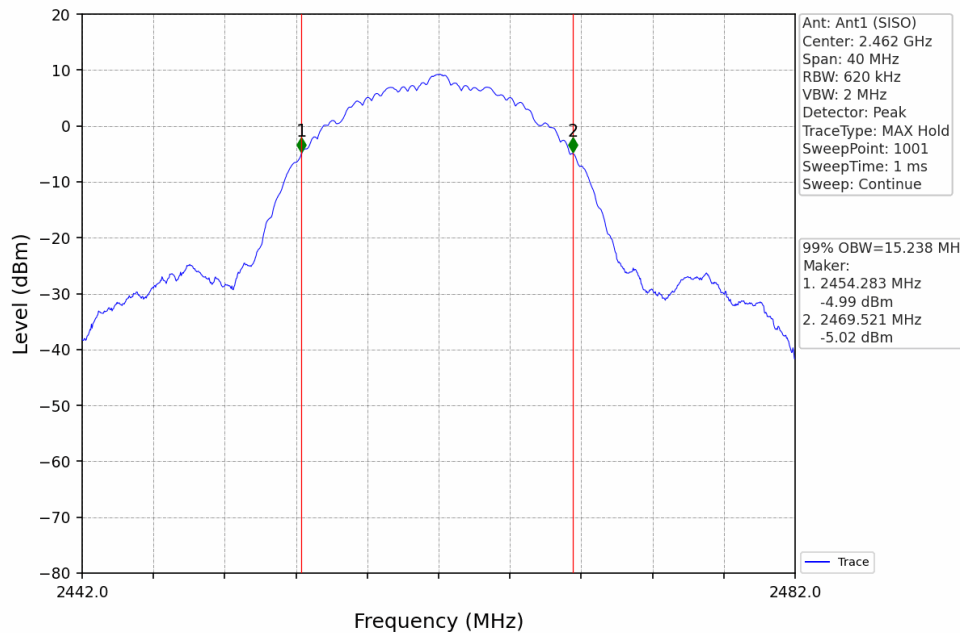
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	15.318	Pass
		2437	1	15.400	Pass
		2462	1	15.238	Pass
802.11g	SISO	2412	1	17.450	Pass
		2437	1	17.520	Pass
		2462	1	17.467	Pass
802.11n (HT20)	SISO	2412	1	18.421	Pass
		2437	1	18.379	Pass
		2462	1	18.402	Pass
802.11n (HT40)	SISO	2422	1	37.110	Pass
		2437	1	37.055	Pass
		2452	1	37.033	Pass

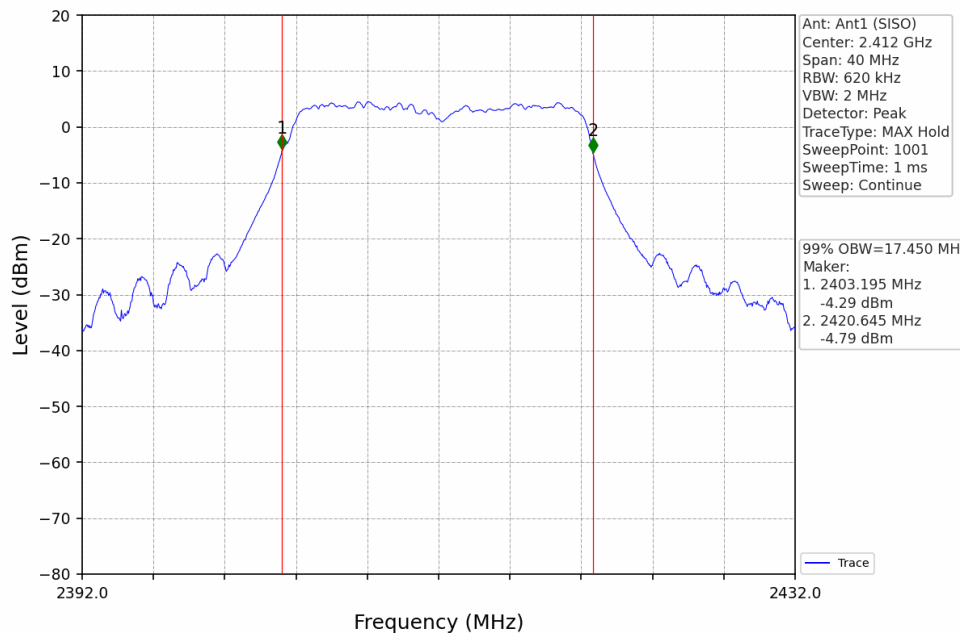
2.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



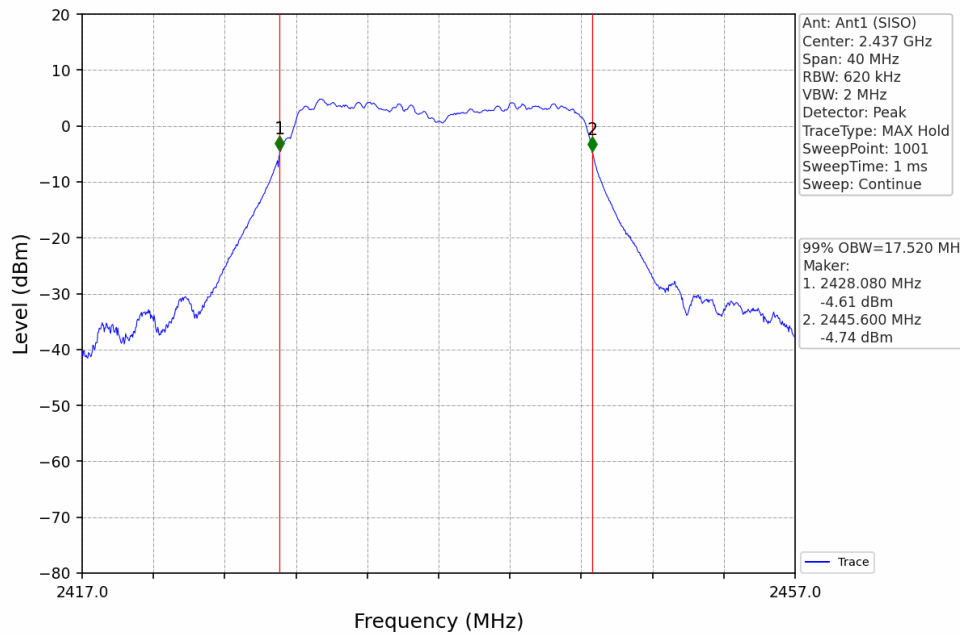
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



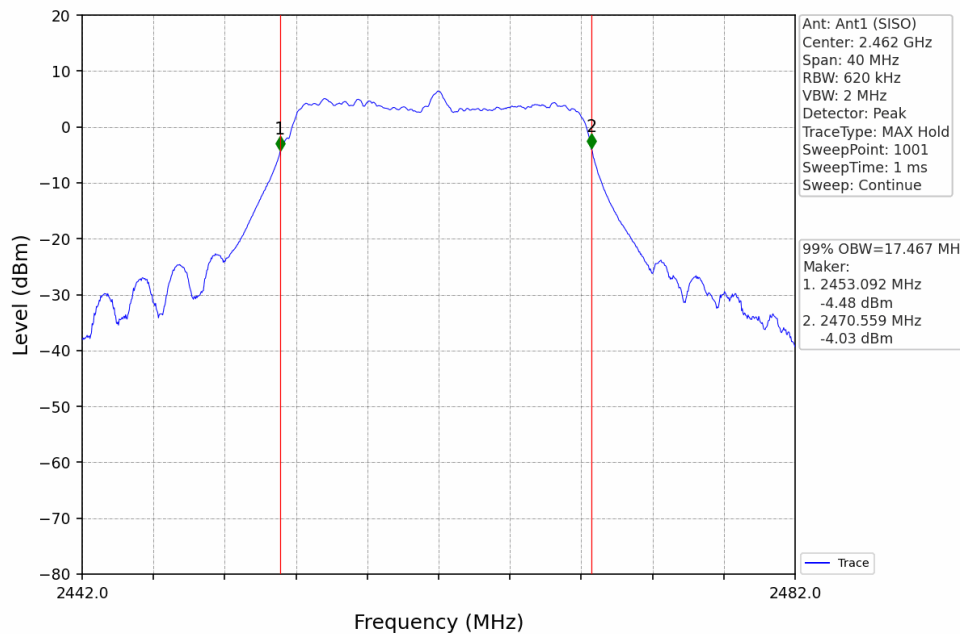
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



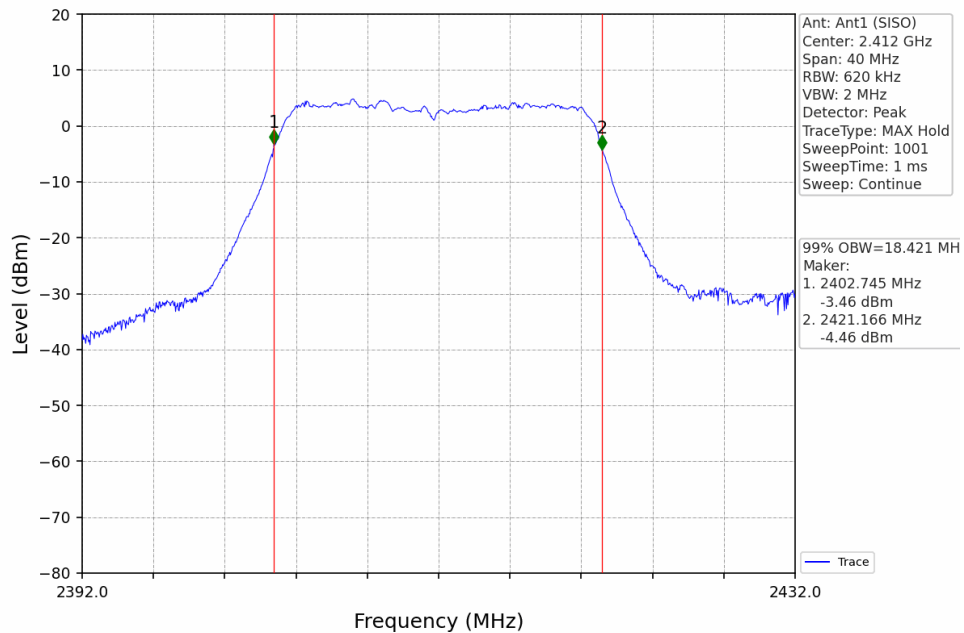
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



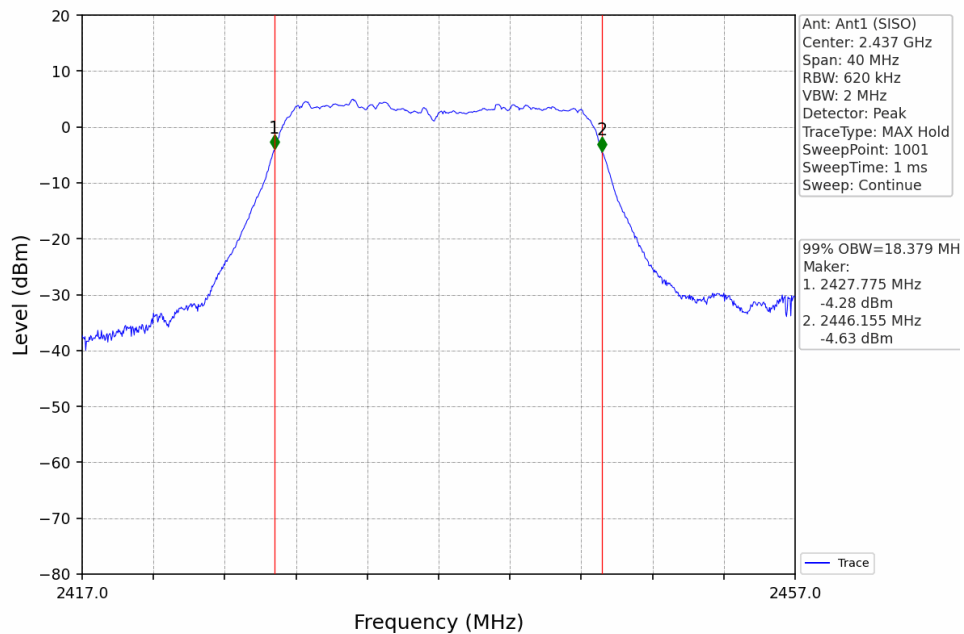
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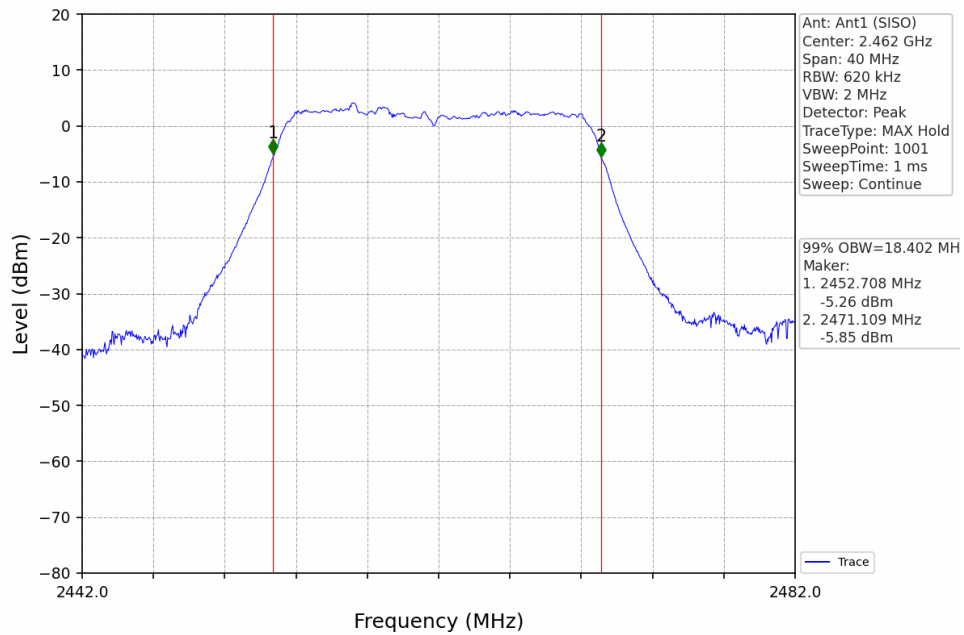
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



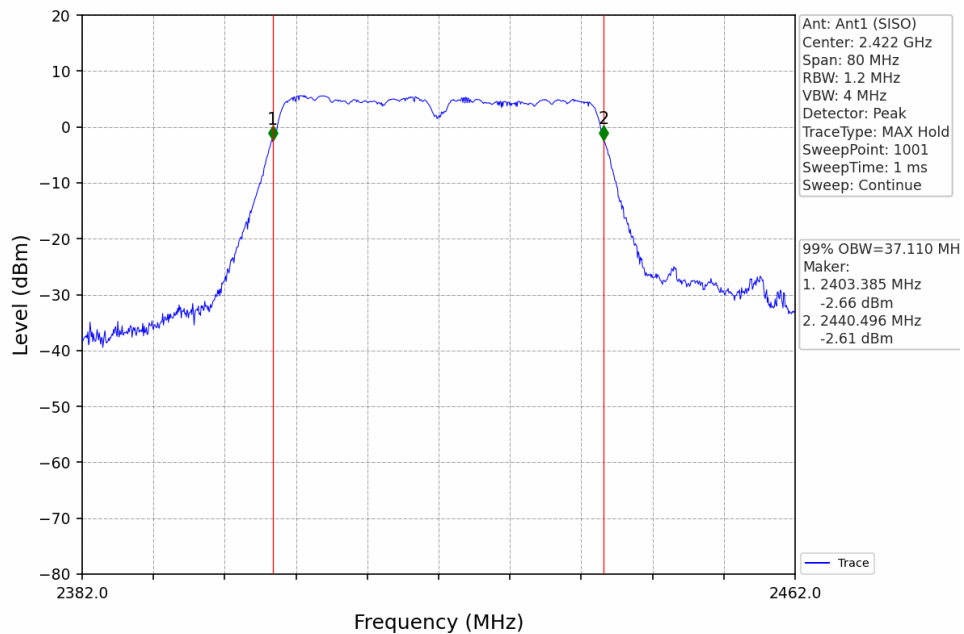
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



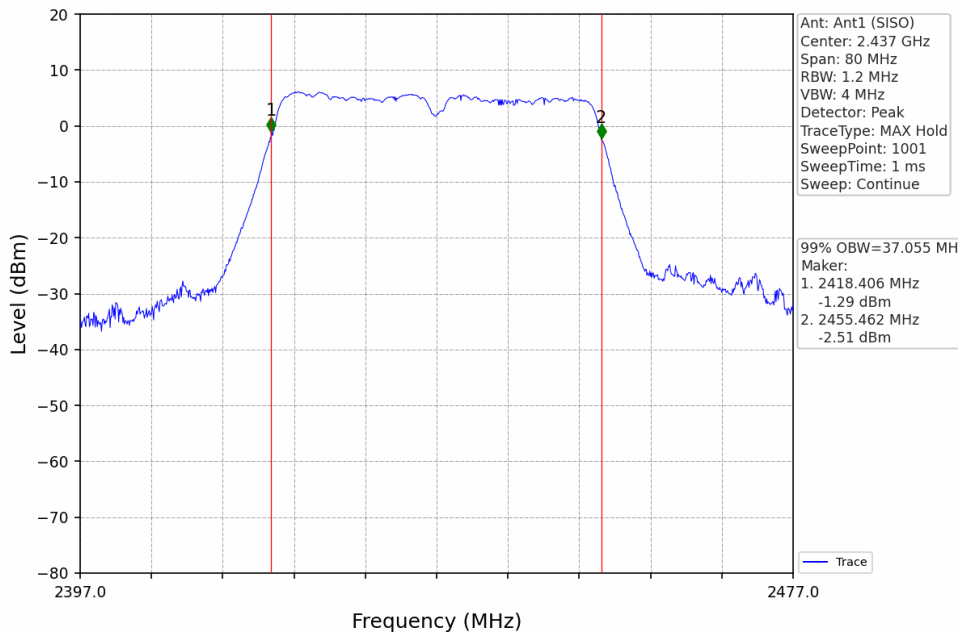
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



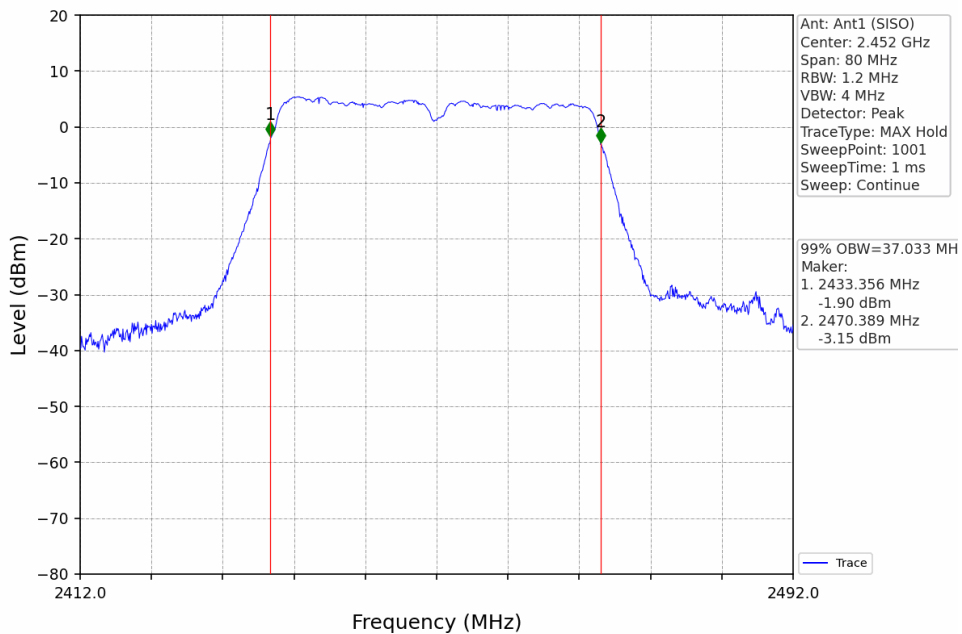
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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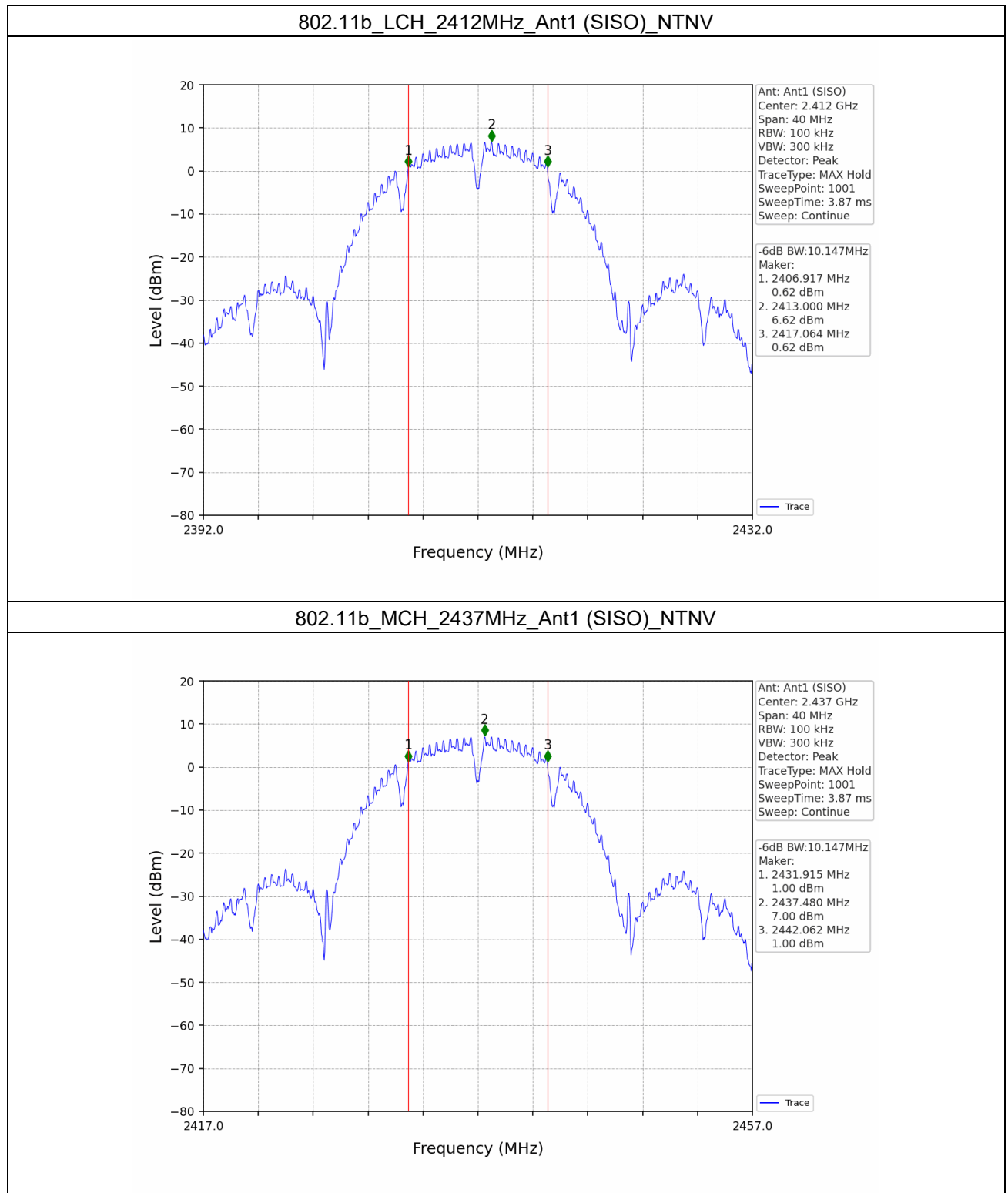
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2.2 6dB BW

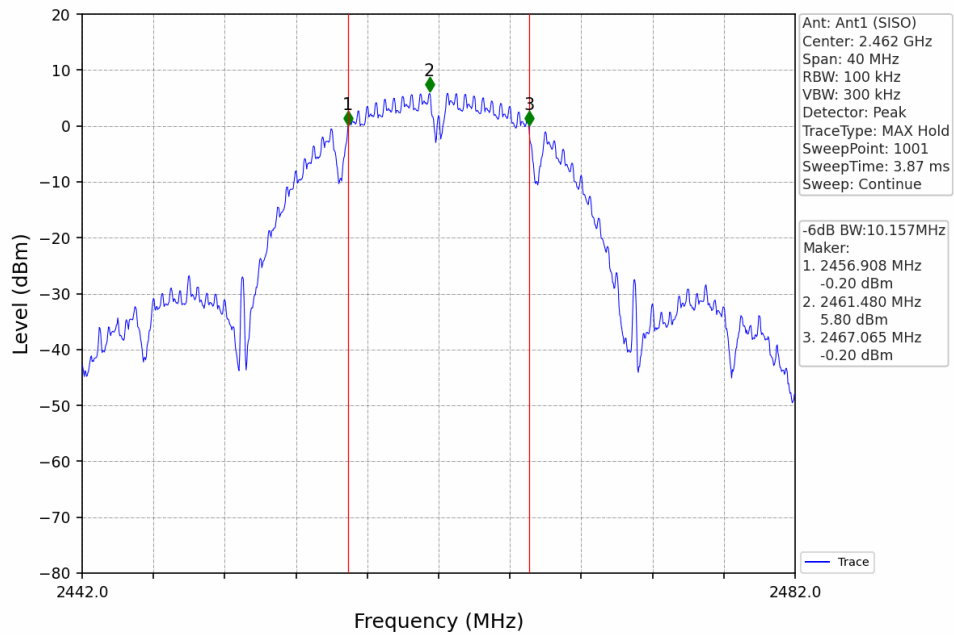
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.147	≥ 0.5	Pass
		2437	1	10.147	≥ 0.5	Pass
		2462	1	10.157	≥ 0.5	Pass
802.11g	SISO	2412	1	16.583	≥ 0.5	Pass
		2437	1	16.583	≥ 0.5	Pass
		2462	1	15.296	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.707	≥ 0.5	Pass
		2437	1	17.700	≥ 0.5	Pass
		2462	1	17.705	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.501	≥ 0.5	Pass
		2437	1	36.480	≥ 0.5	Pass
		2452	1	36.473	≥ 0.5	Pass

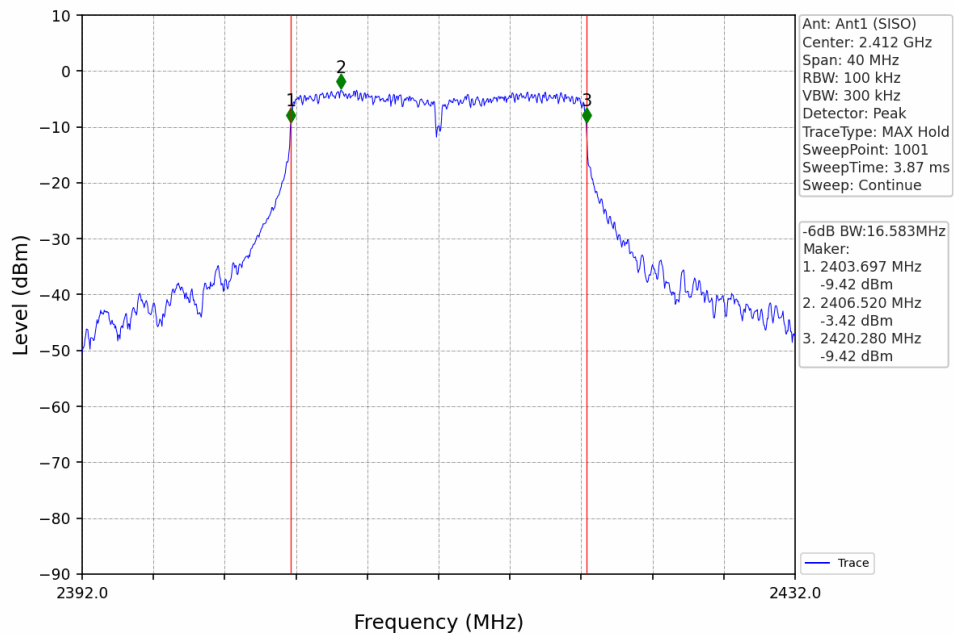
2.2.2 Test Graph



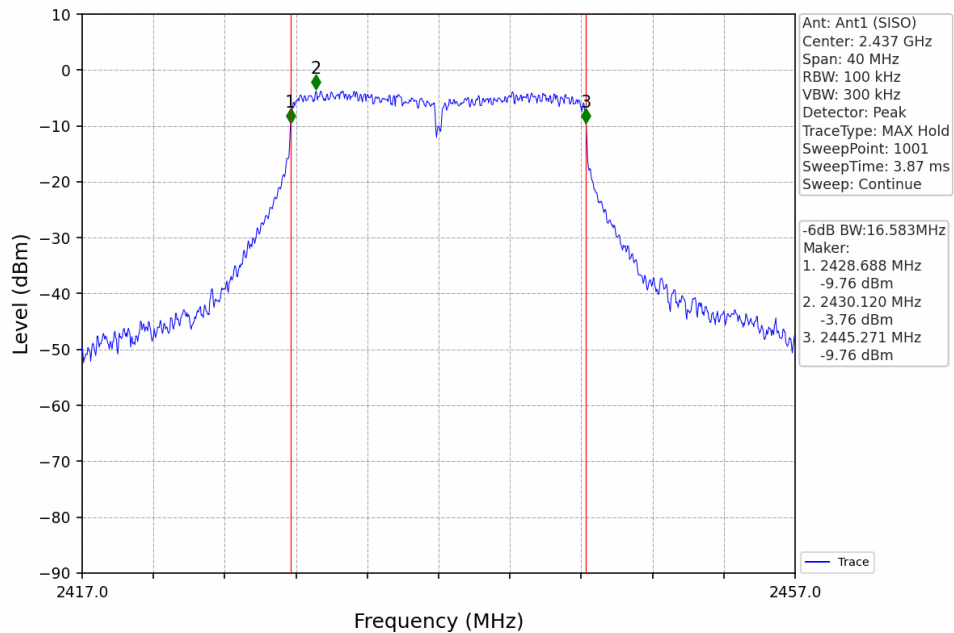
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



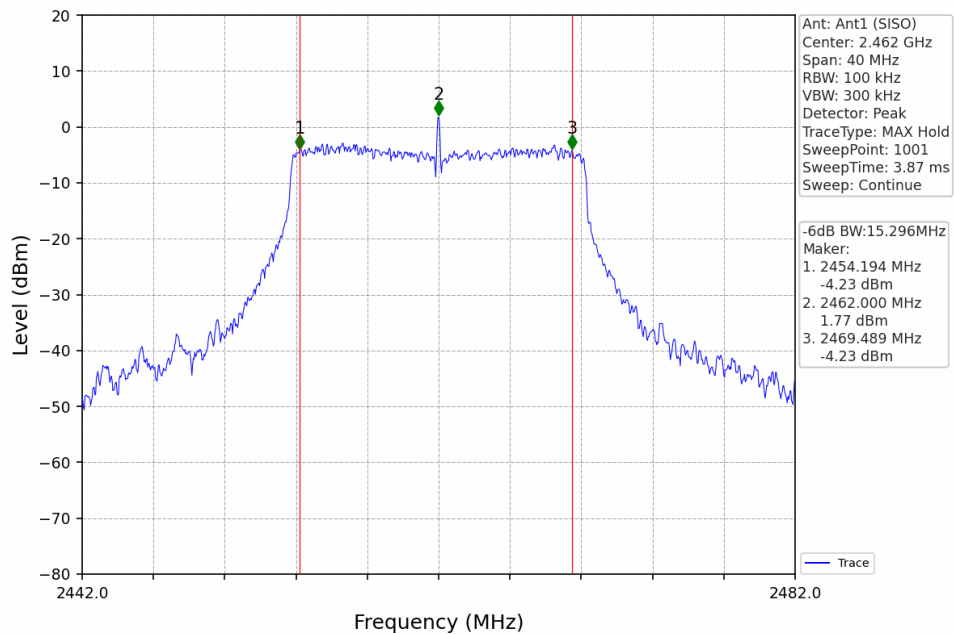
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



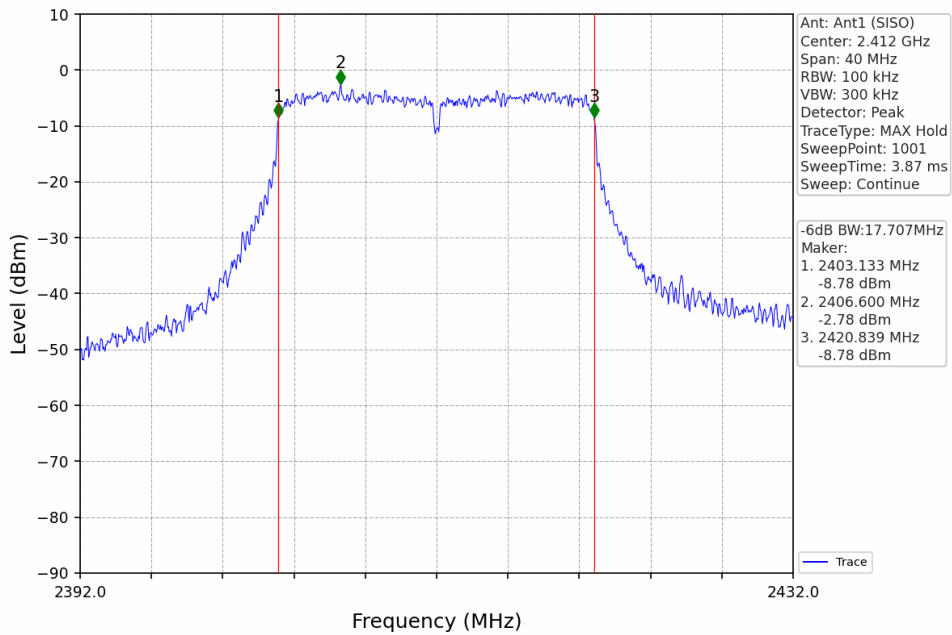
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



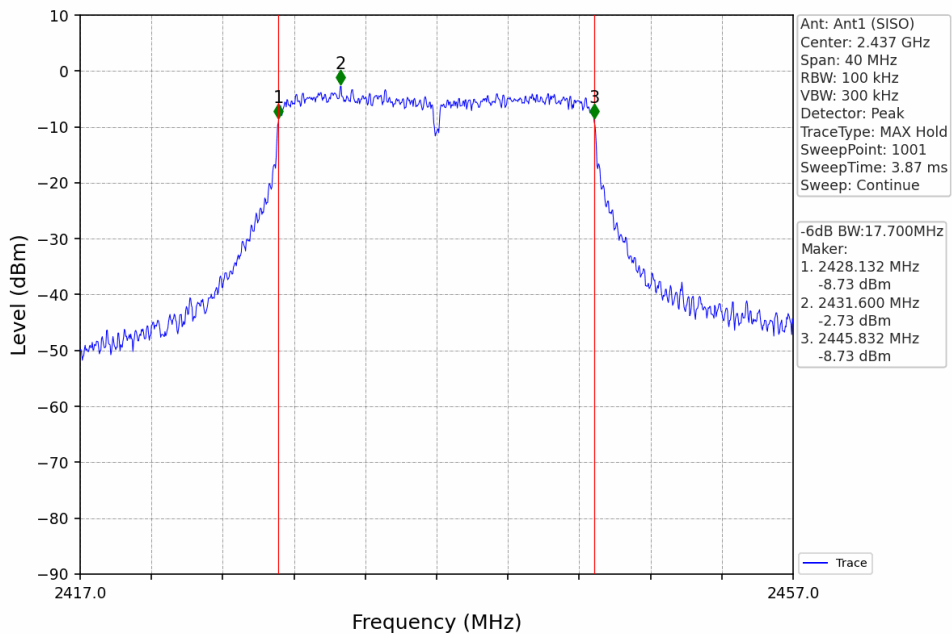
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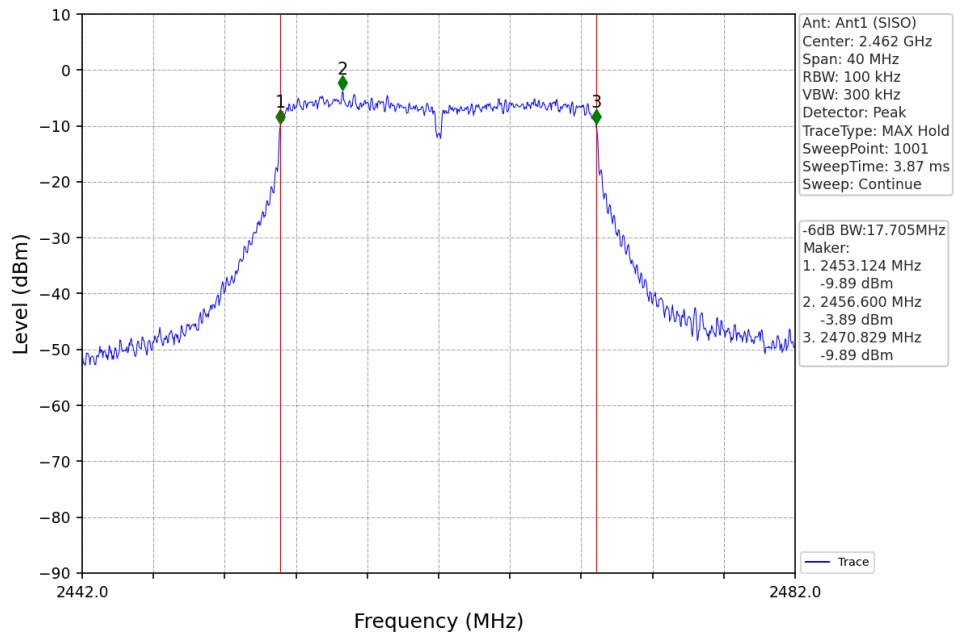
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



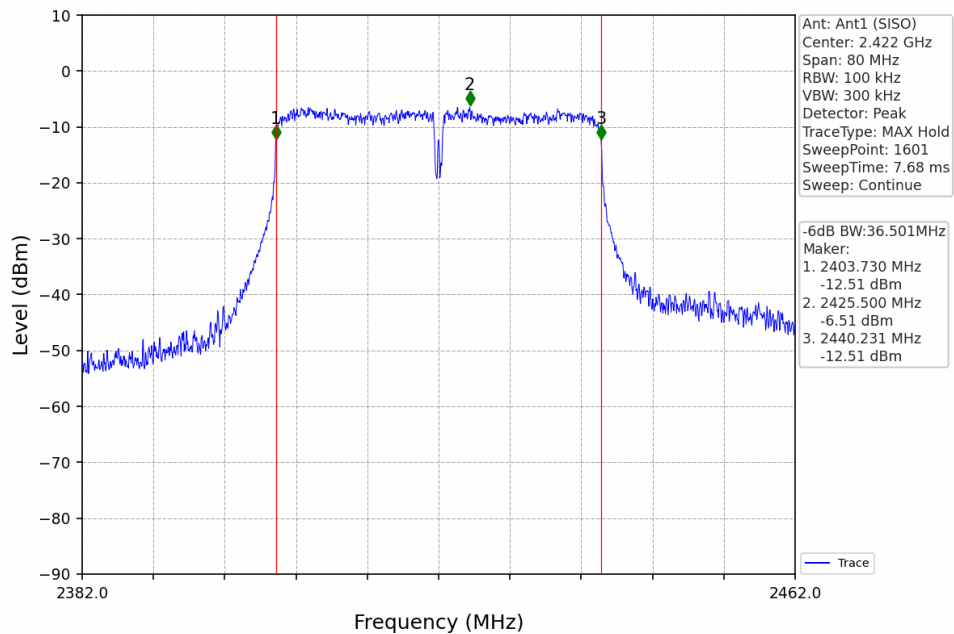
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



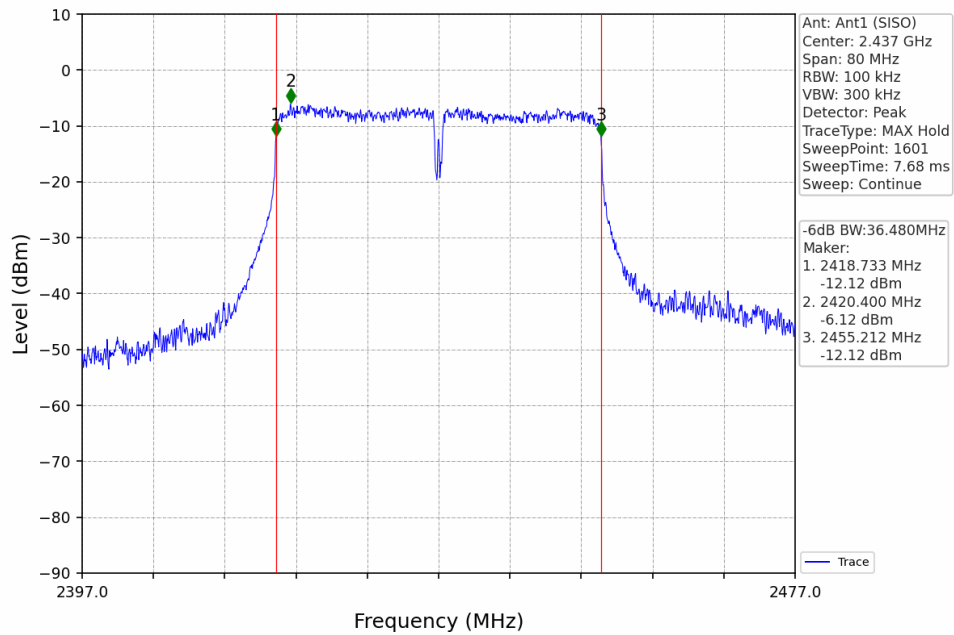
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



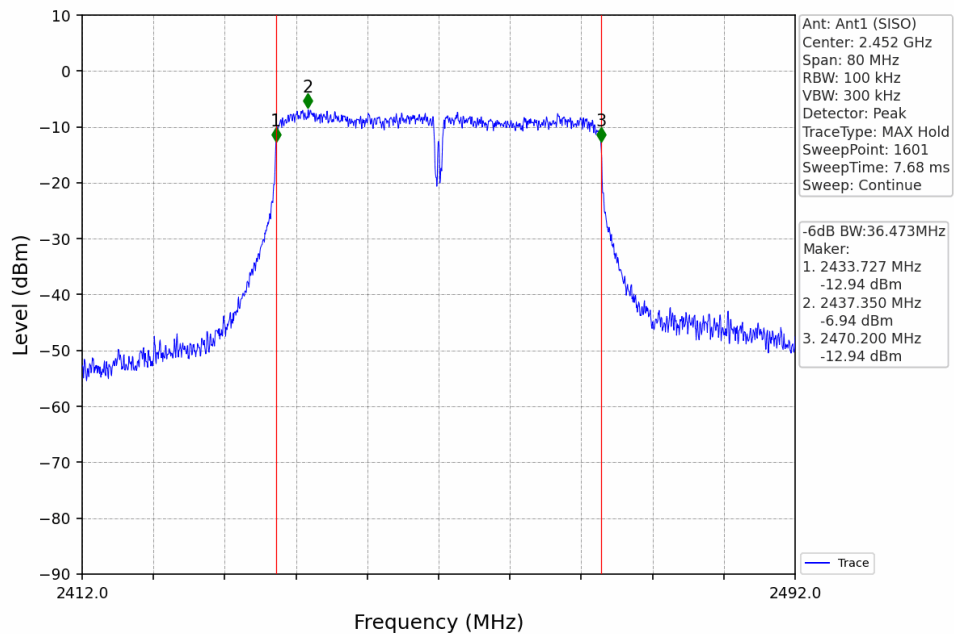
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

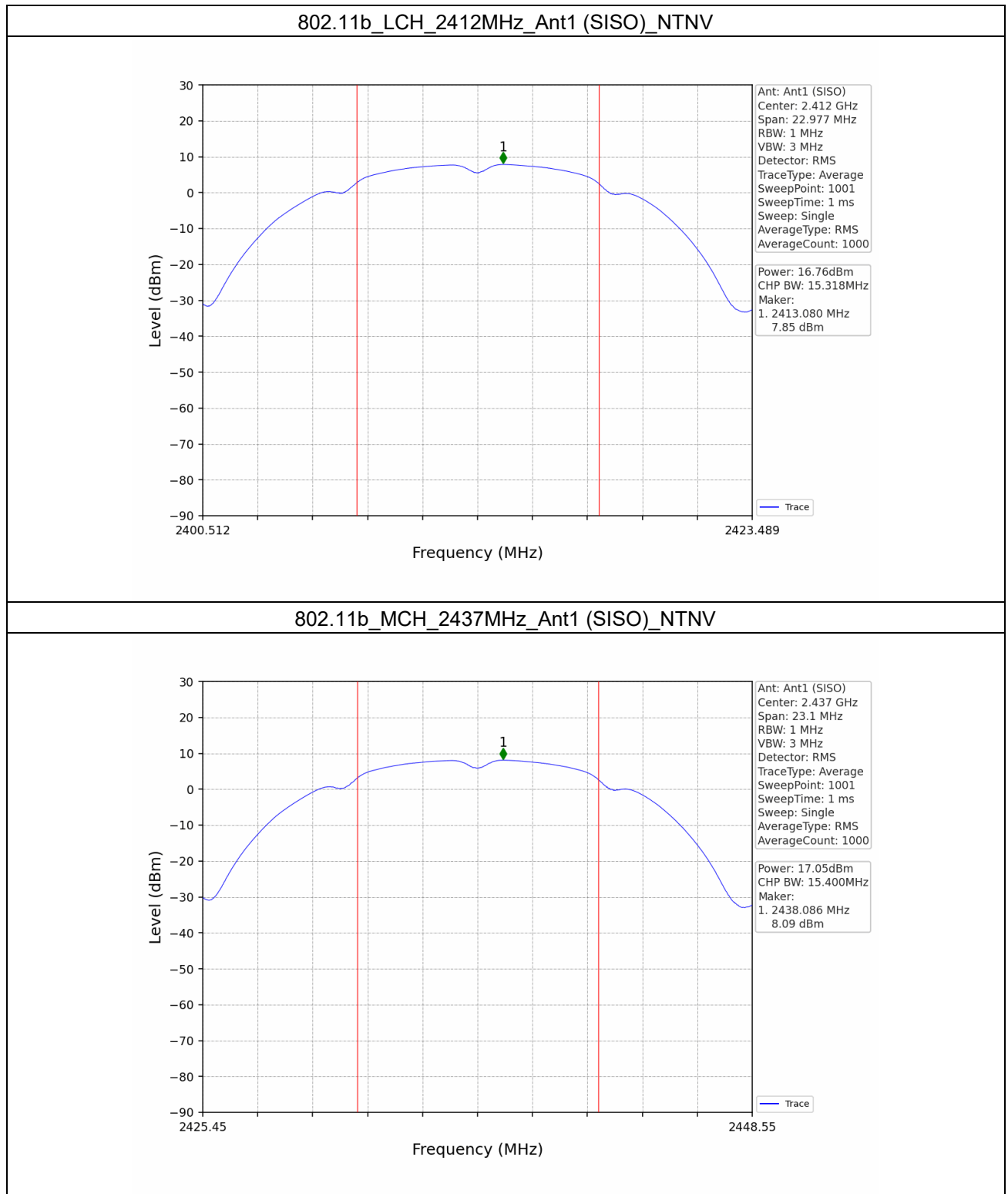
3.1 Power

3.1.1 Test Result

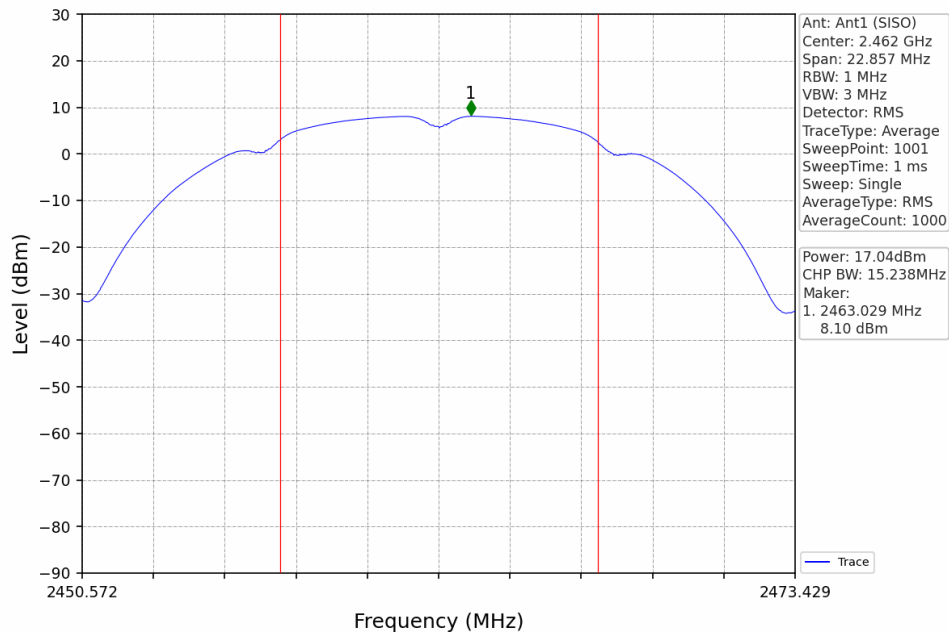
Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	16.76	<=30	Pass
		2437	17.05	<=30	Pass
		2462	17.04	<=30	Pass
802.11g	SISO	2412	14.08	<=30	Pass
		2437	13.65	<=30	Pass
		2462	13.22	<=30	Pass
802.11n (HT20)	SISO	2412	13.98	<=30	Pass
		2437	13.51	<=30	Pass
		2462	12.81	<=30	Pass
802.11n (HT40)	SISO	2422	14.12	<=30	Pass
		2437	13.75	<=30	Pass
		2452	11.97	<=30	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

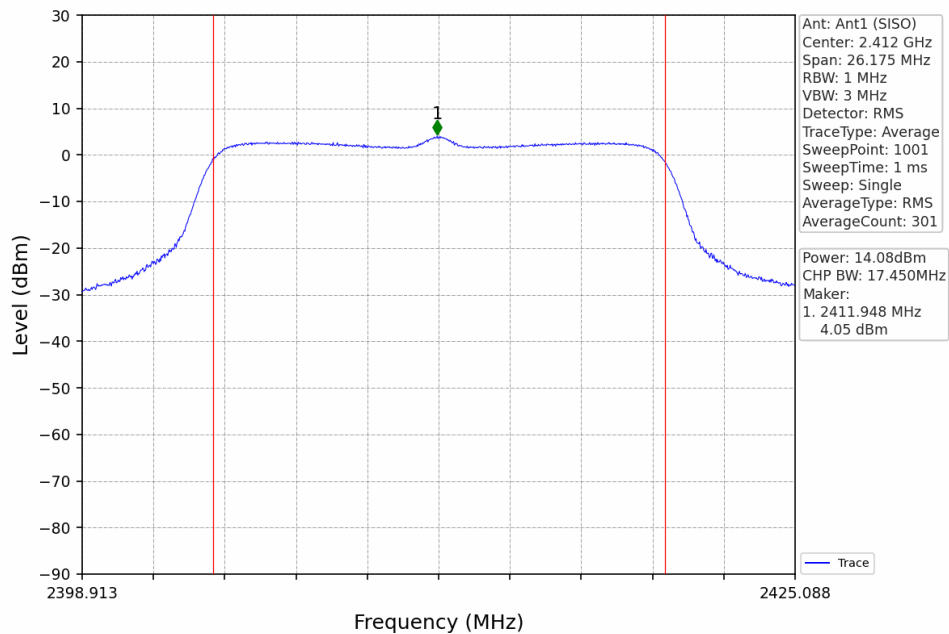
3.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



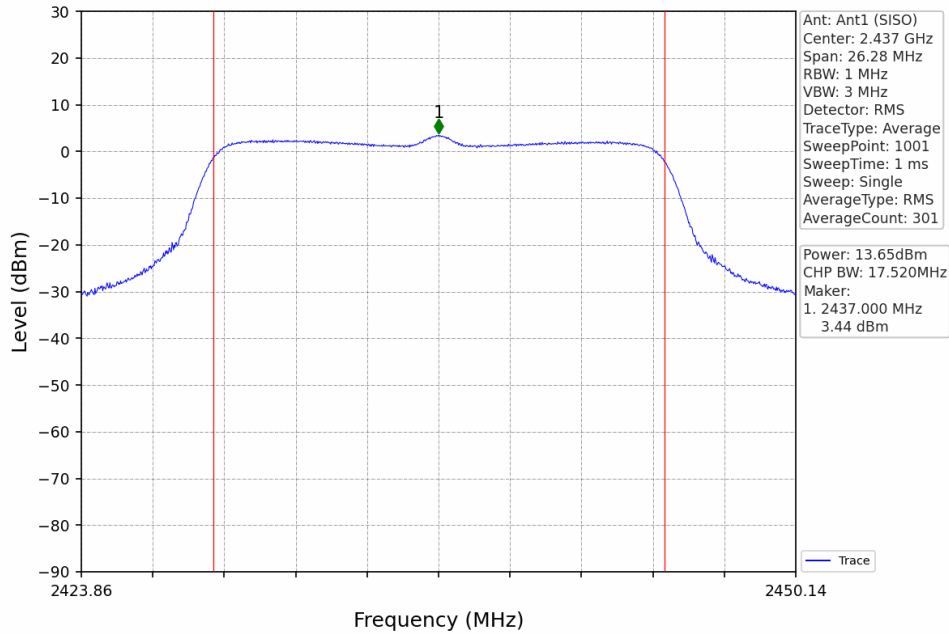
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



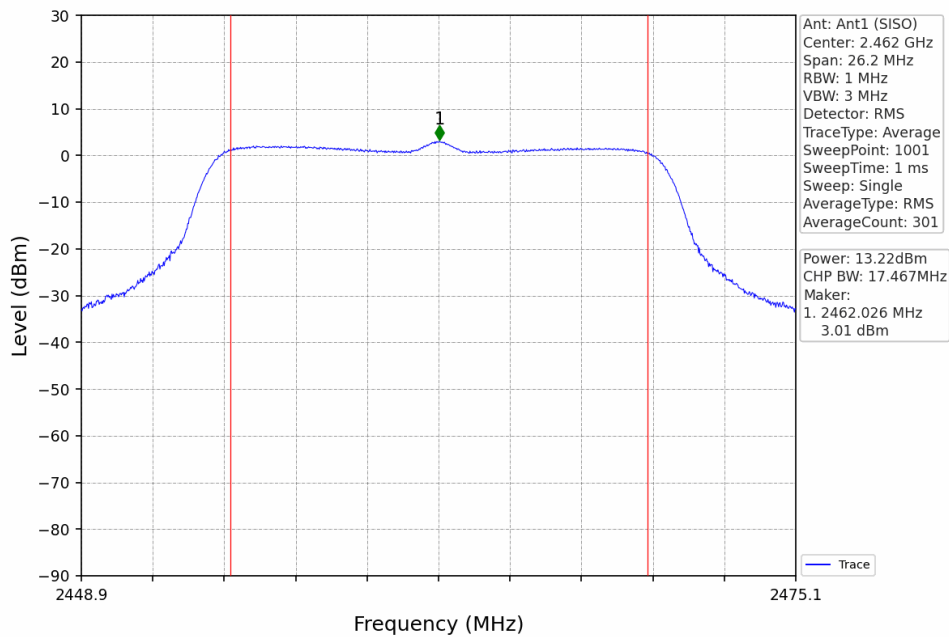
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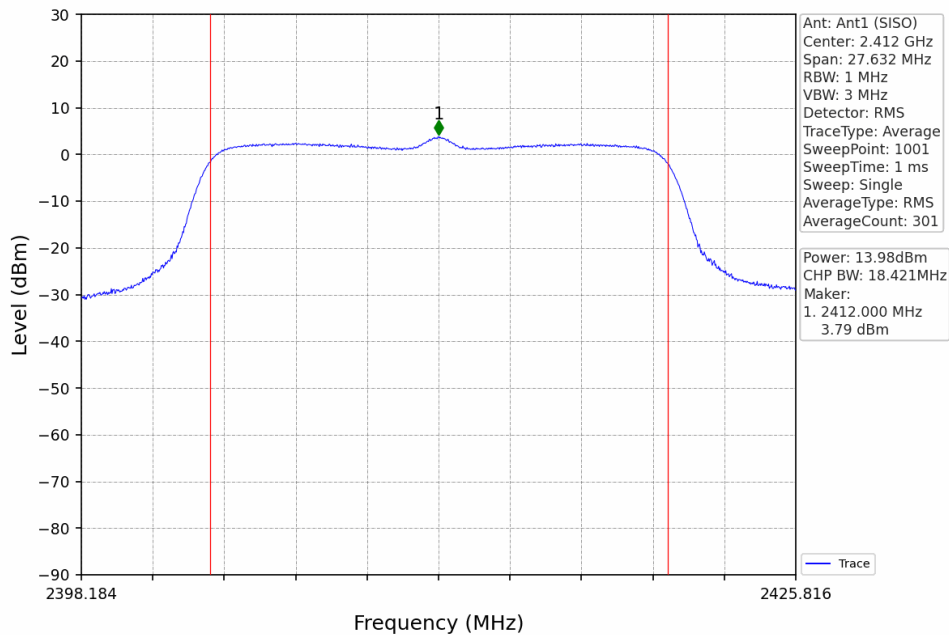
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



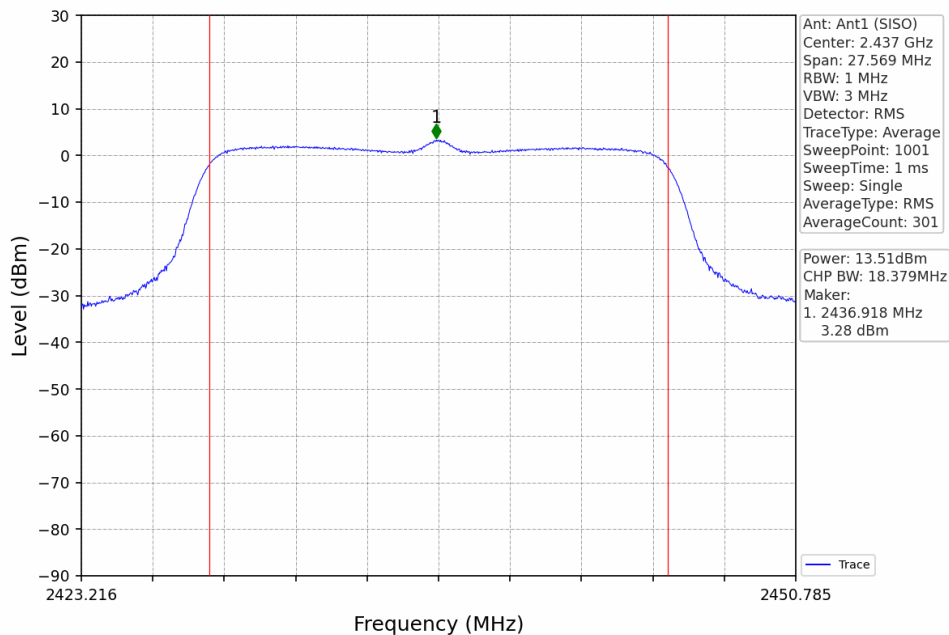
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



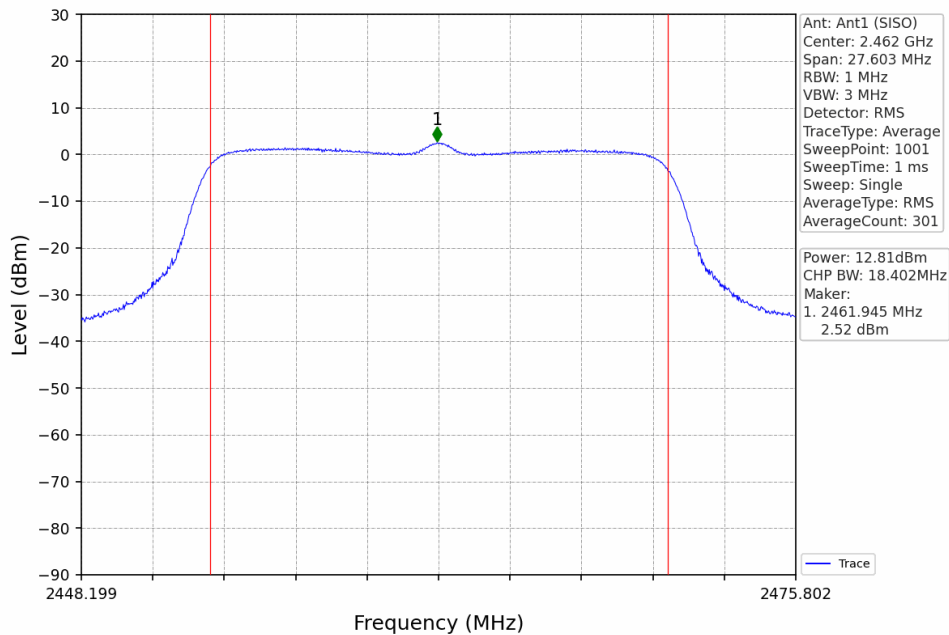
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



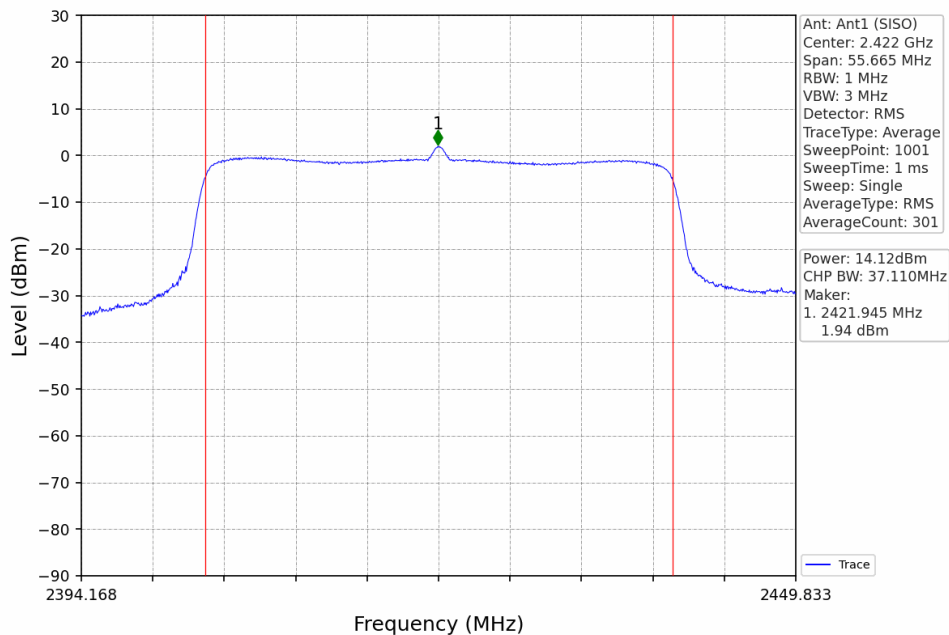
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



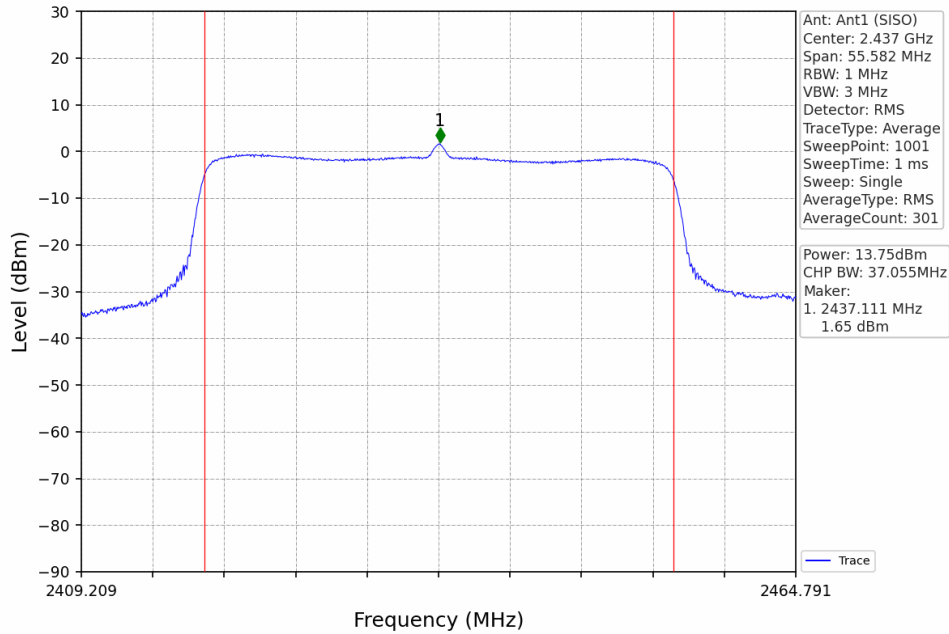
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



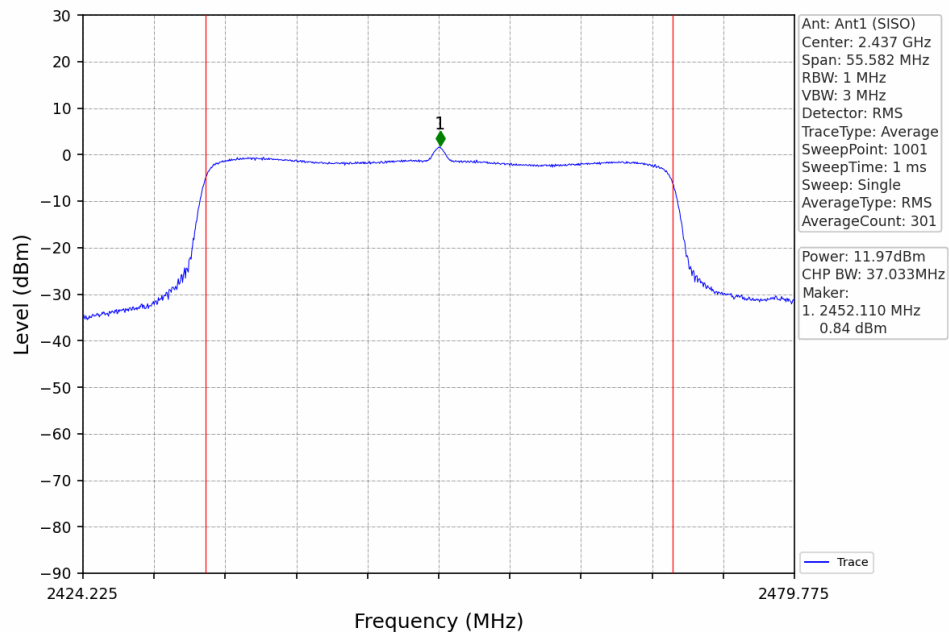
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



4. Maximum Power Spectral Density

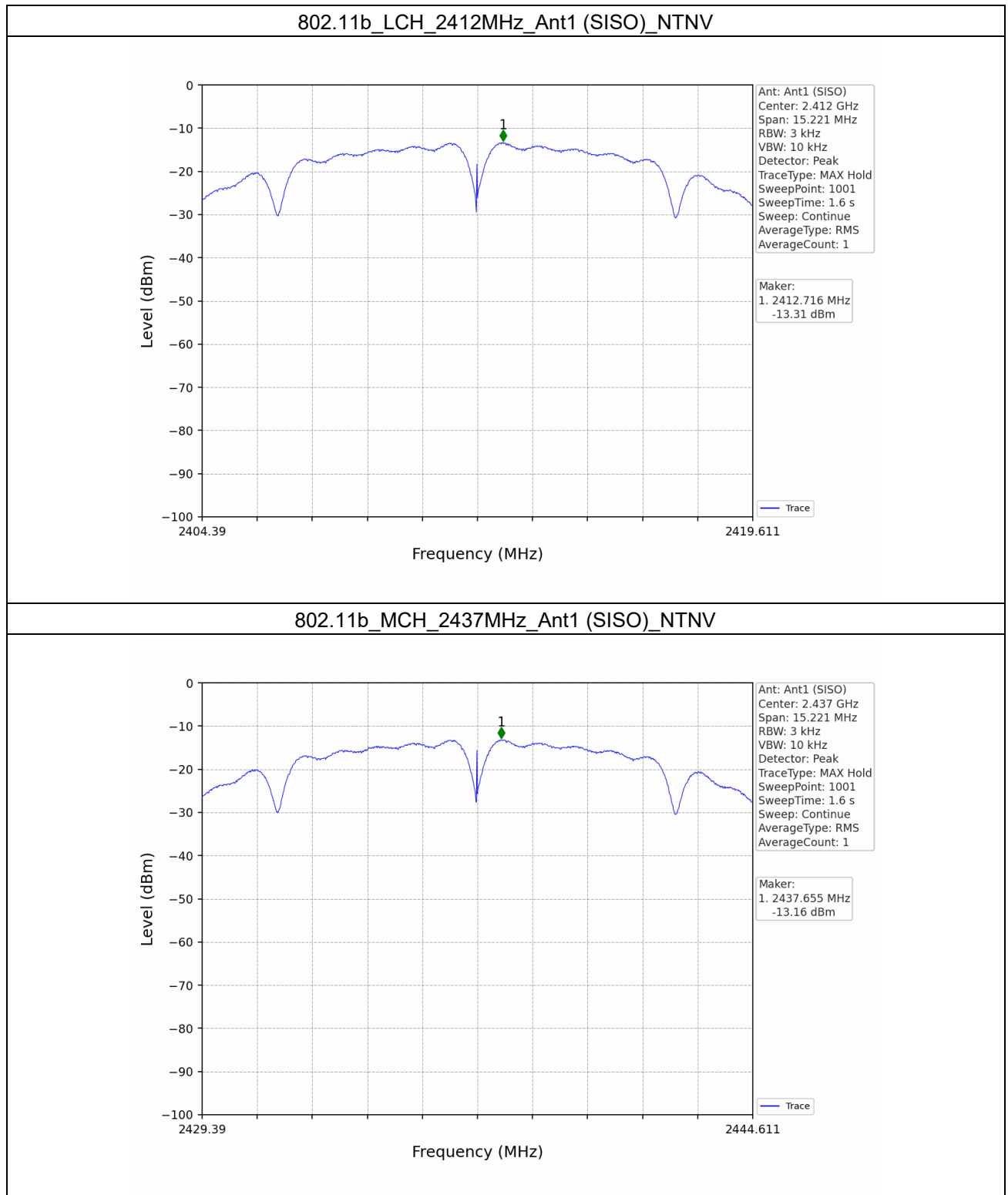
4.1 PSD

4.1.1 Test Result

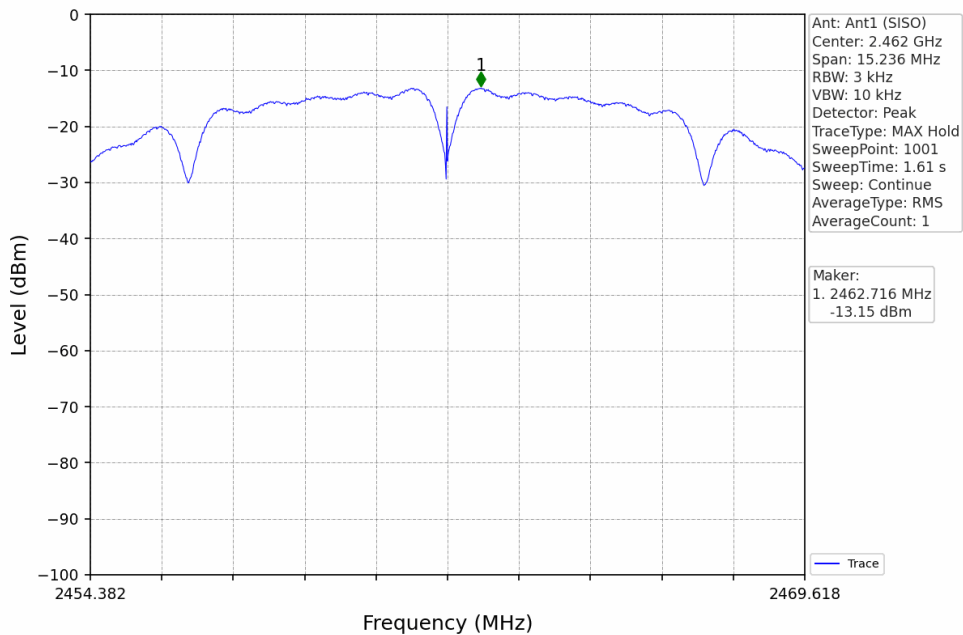
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-13.31	<=8	Pass
		2437	-13.16	<=8	Pass
		2462	-13.15	<=8	Pass
802.11g	SISO	2412	1.31	<=8	Pass
		2437	0.86	<=8	Pass
		2462	0.37	<=8	Pass
802.11n (HT20)	SISO	2412	1.26	<=8	Pass
		2437	0.77	<=8	Pass
		2462	0.09	<=8	Pass
802.11n (HT40)	SISO	2422	1.01	<=8	Pass
		2437	0.63	<=8	Pass
		2452	-0.04	<=8	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

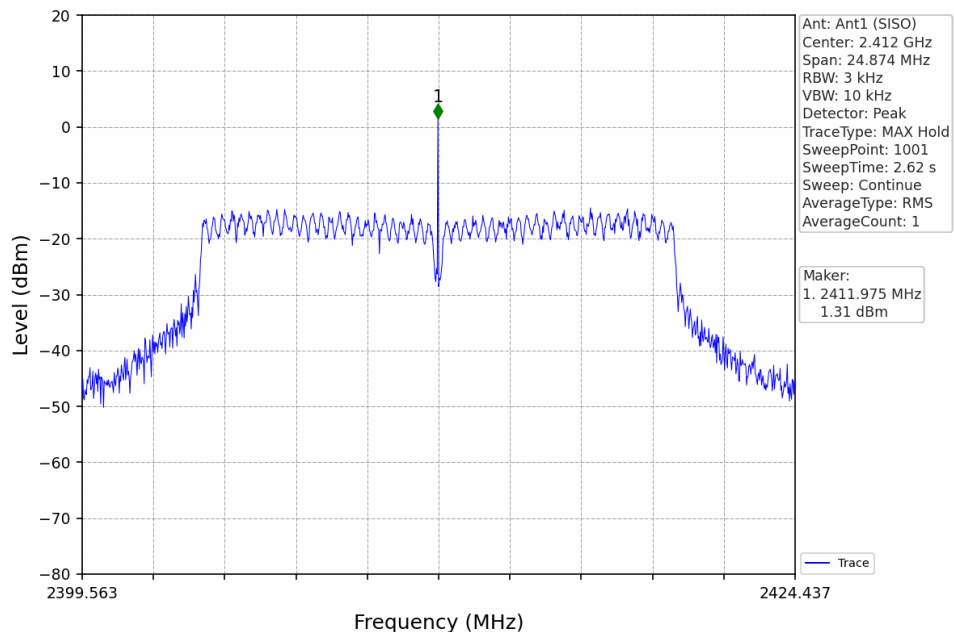
4.1.2 Test Graph



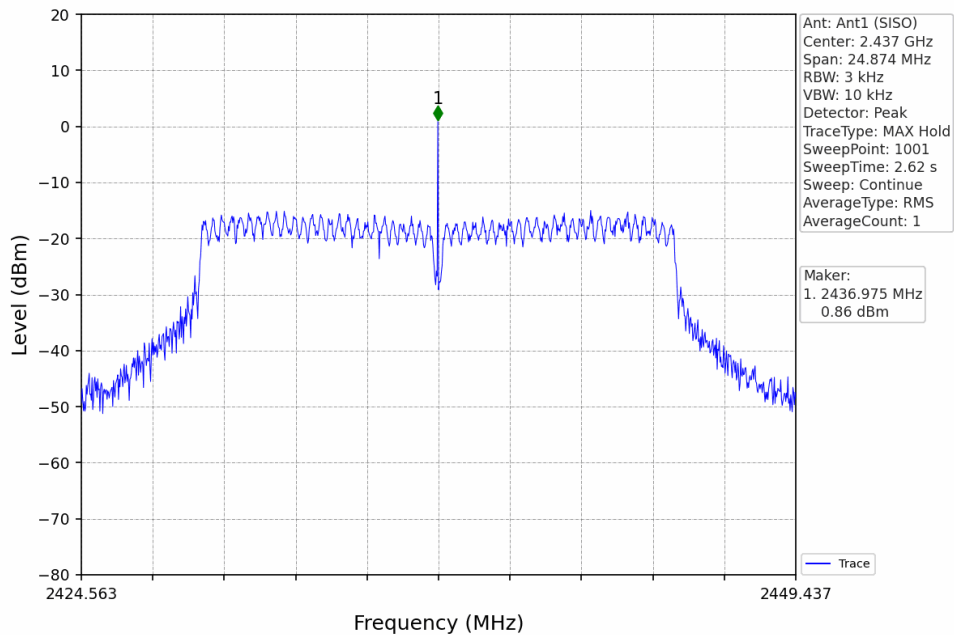
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



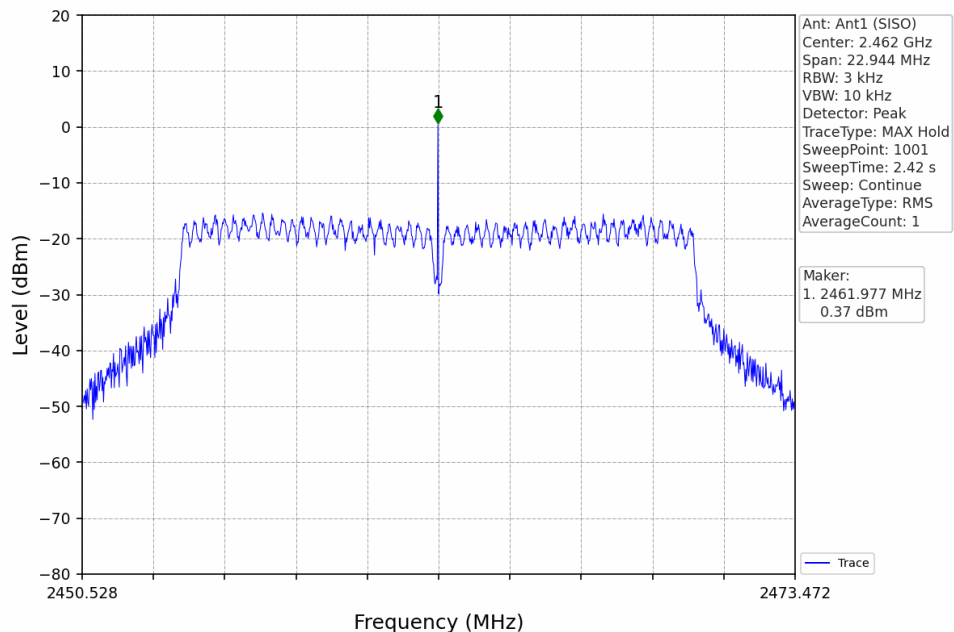
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



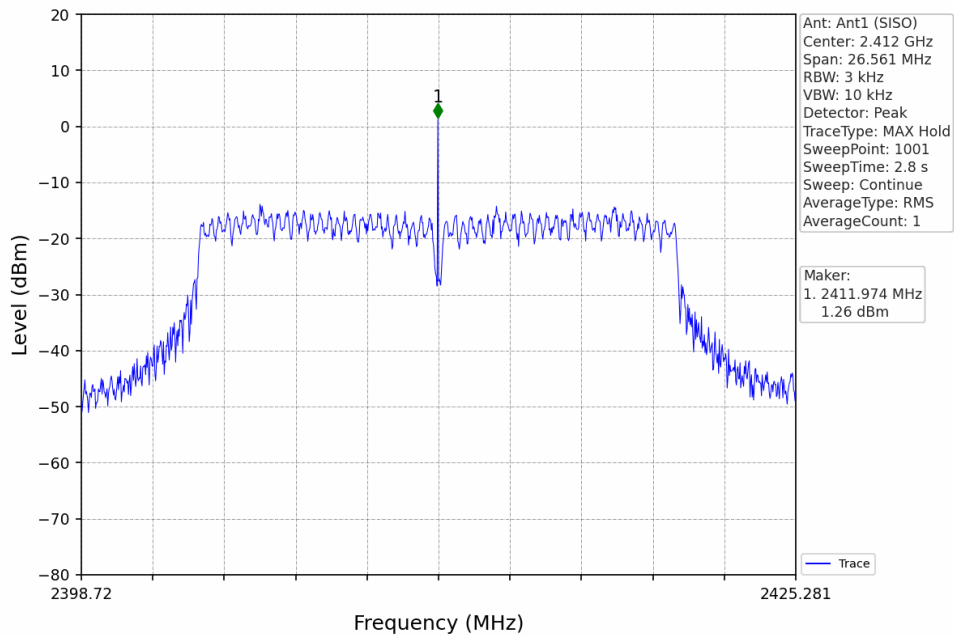
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



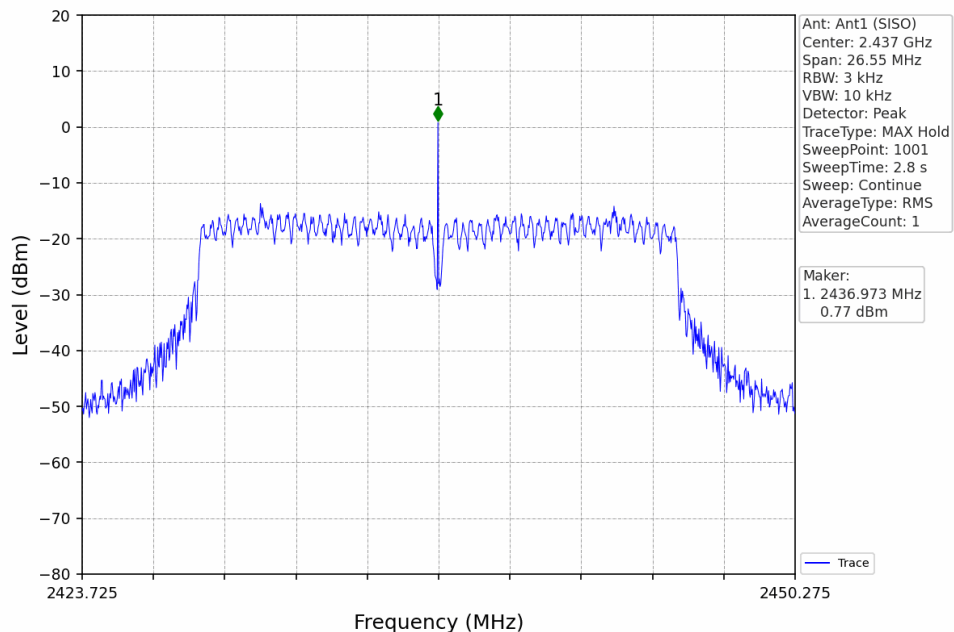
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



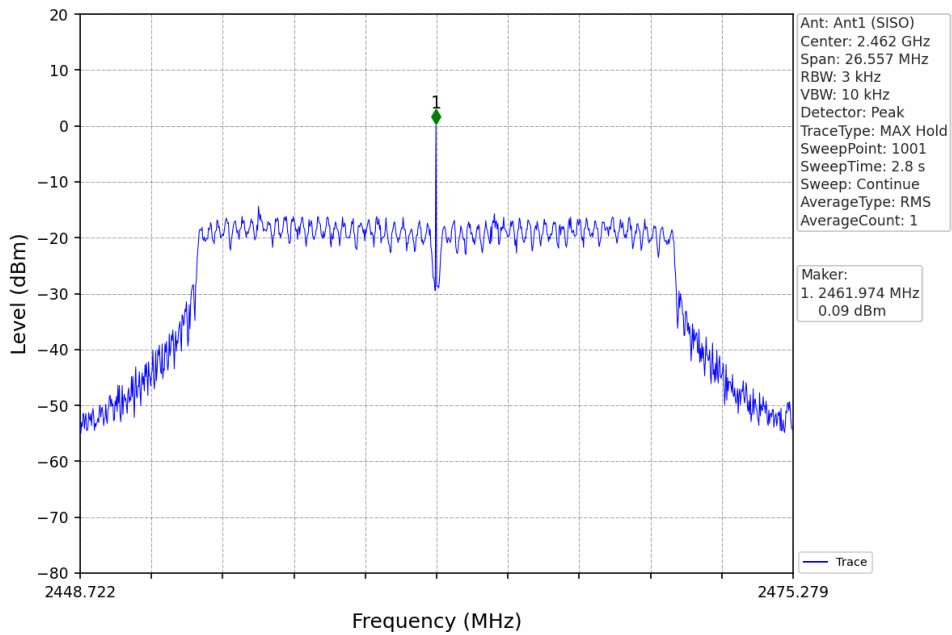
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



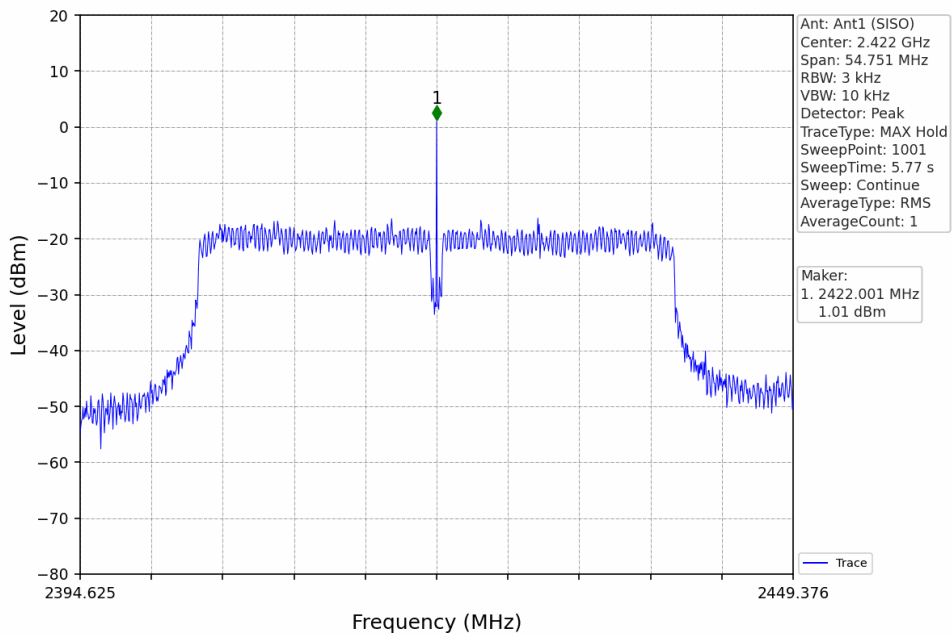
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



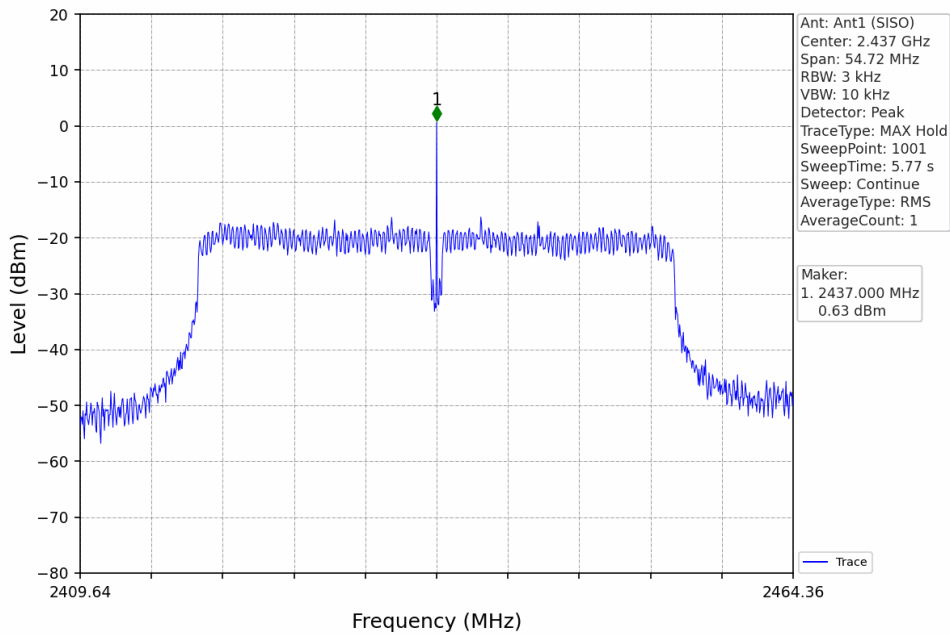
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



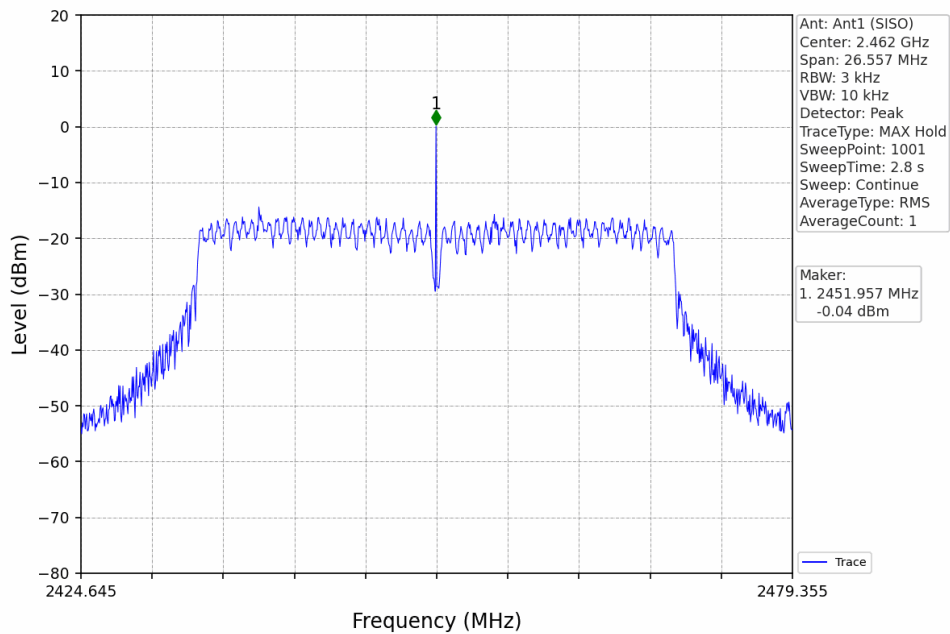
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

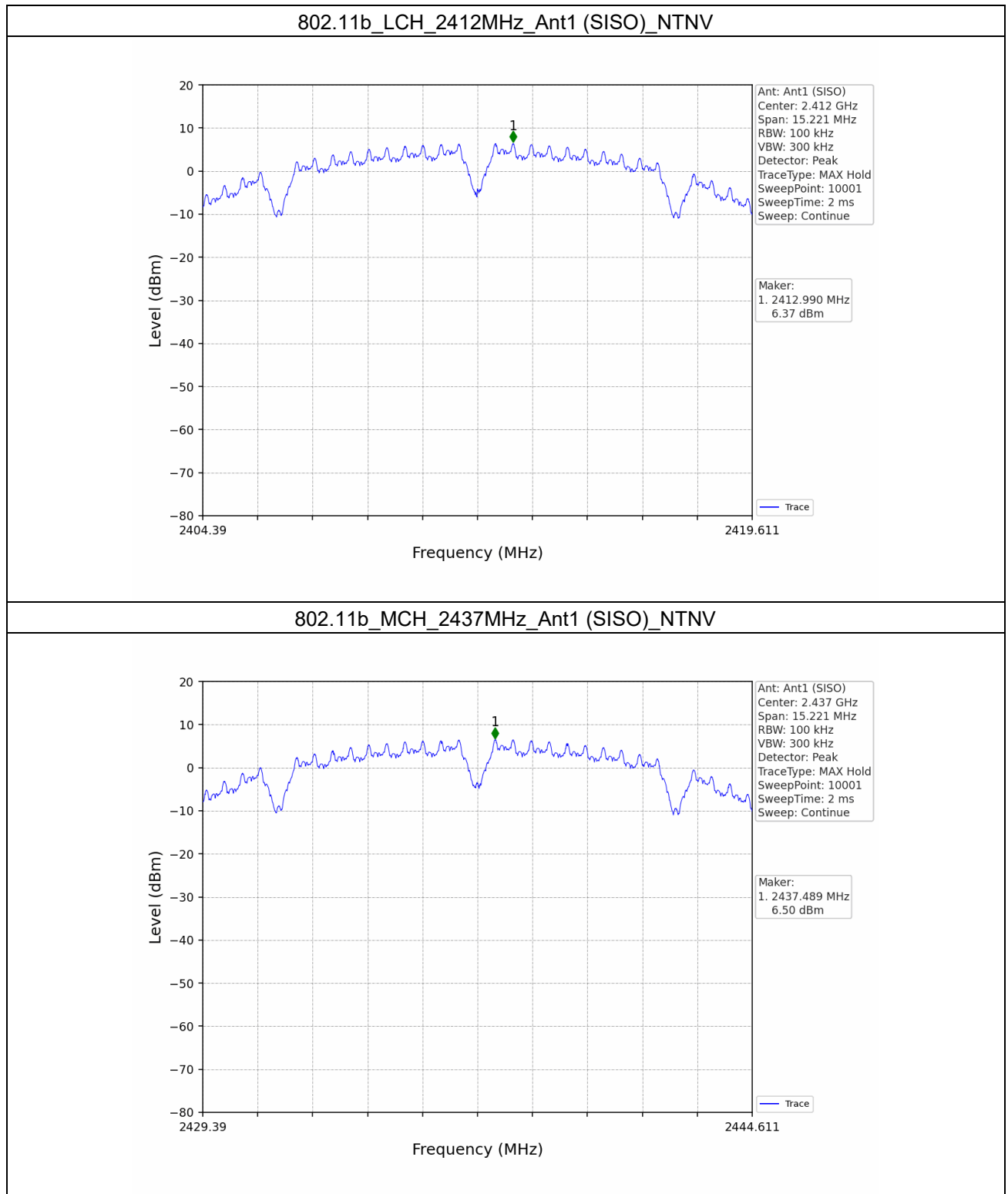
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.37
		2437	1	6.50
		2462	1	5.50
802.11g	SISO	2412	1	2.86
		2437	1	2.44
		2462	1	1.87
802.11n (HT20)	SISO	2412	1	2.50
		2437	1	2.12
		2462	1	1.48
802.11n (HT40)	SISO	2422	1	1.63
		2437	1	1.27
		2452	1	0.55

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.

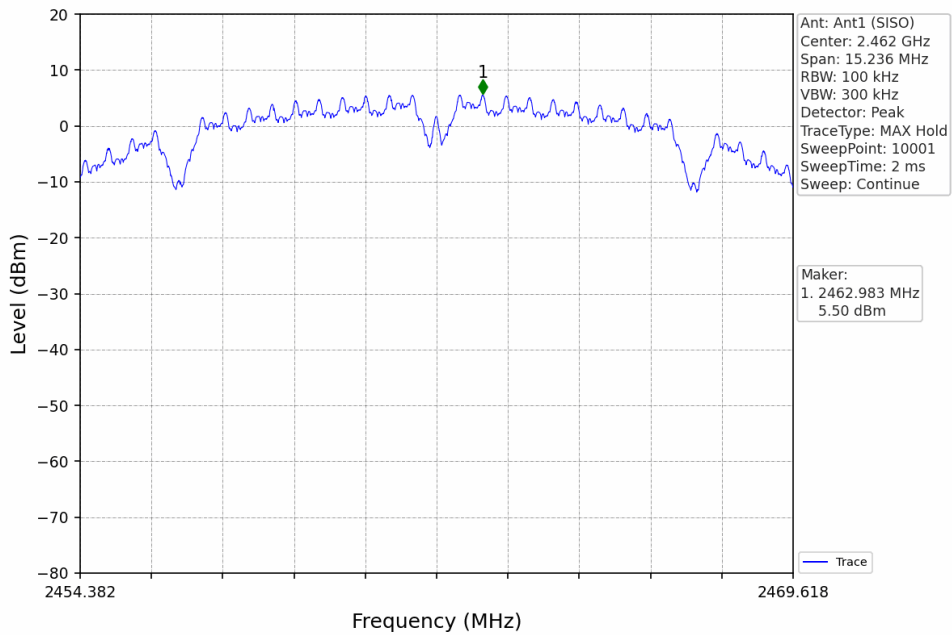
5.1.2 Test Graph



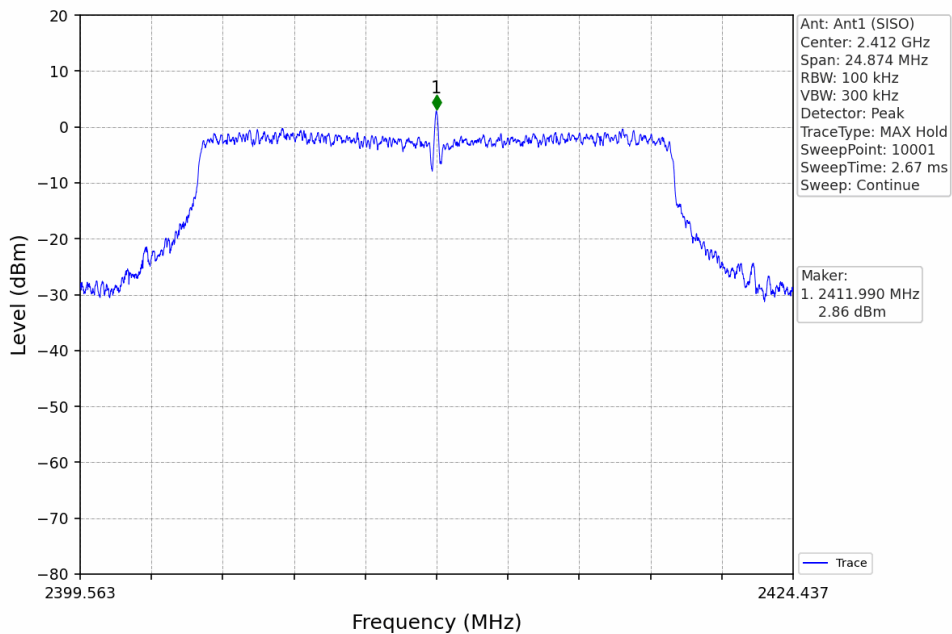
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



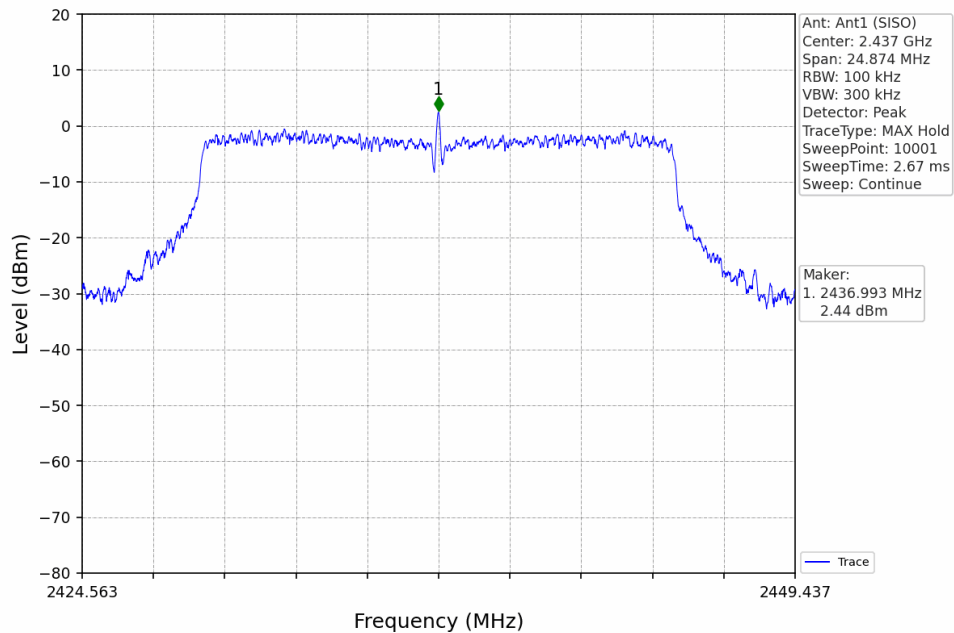
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



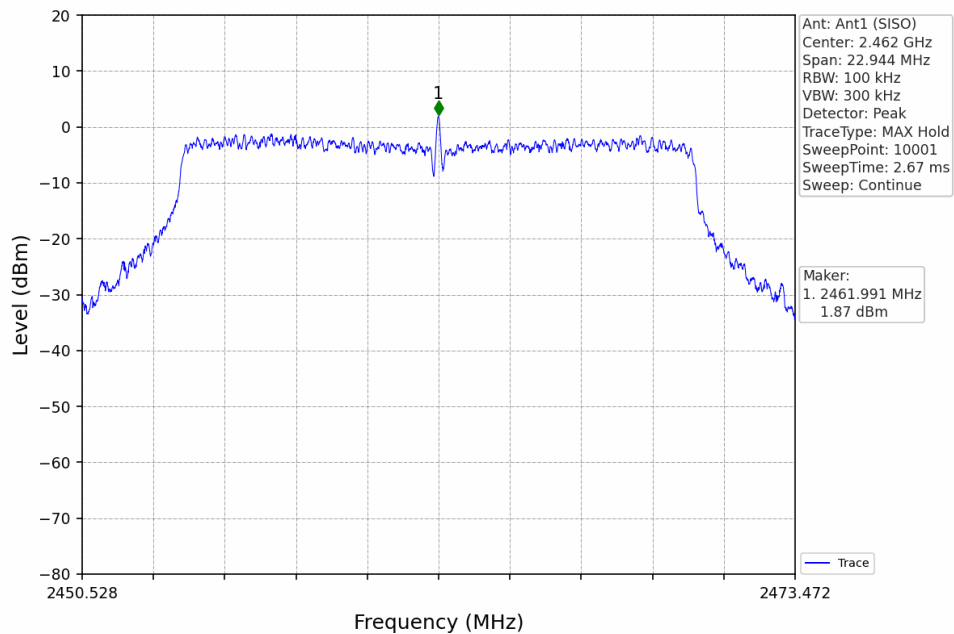
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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