

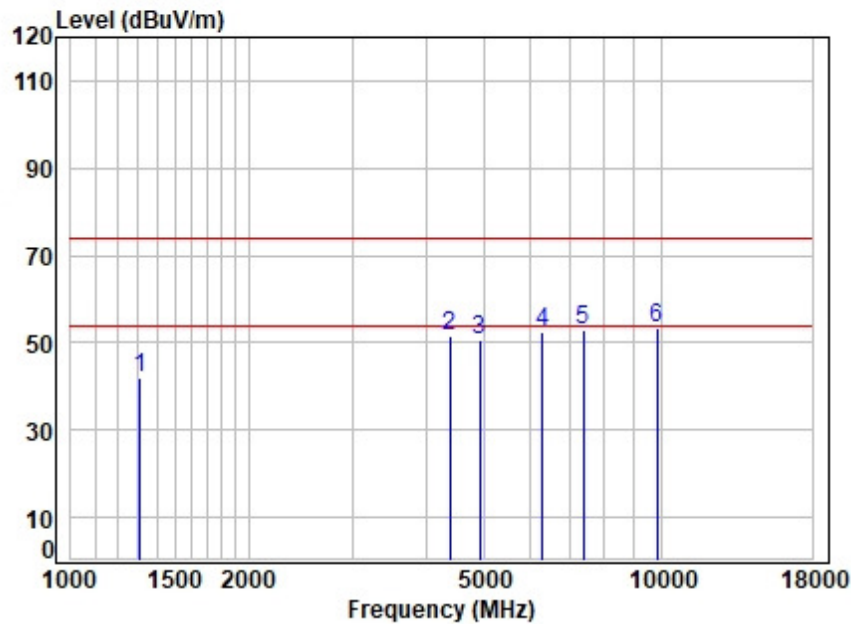
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047204

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 2462 TX RSE
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1308.399	3.39	24.24	52.73	67.18	42.08	74.00	-31.92	peak
2	4379.699	7.47	30.04	52.92	67.15	51.74	74.00	-22.26	peak
3	4924.000	8.18	31.23	53.08	64.19	50.52	74.00	-23.48	peak
4	6285.695	7.67	33.68	53.01	63.98	52.32	74.00	-21.68	peak
5	7386.000	8.38	36.27	53.54	61.74	52.85	74.00	-21.15	peak
6	9848.000	11.23	38.07	53.35	57.49	53.44	74.00	-20.56	peak



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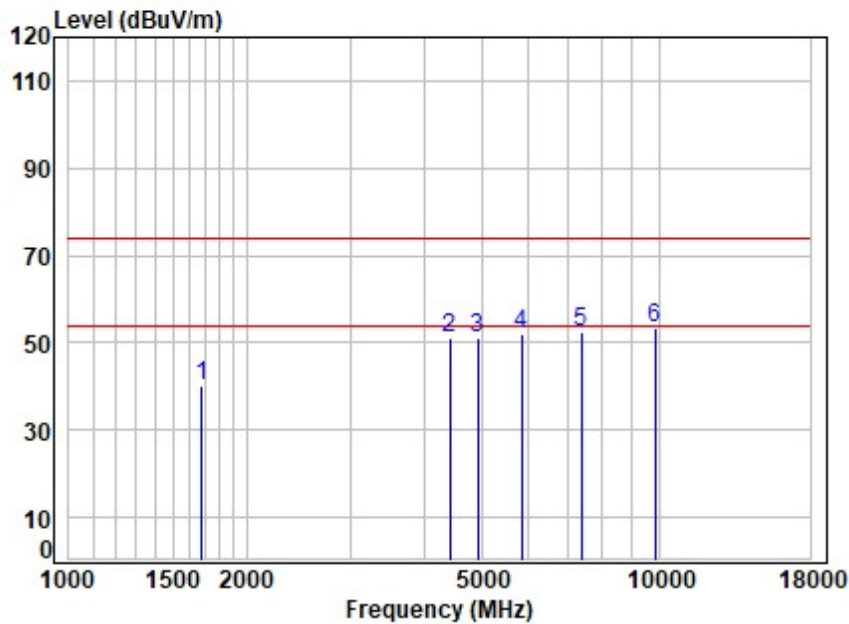
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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00472AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	4.16	24.97	52.95	64.19	40.37	74.00	-33.63	peak
2	4417.841	7.47	30.09	52.93	66.25	50.88	74.00	-23.12	peak
3	4924.000	8.18	31.23	53.08	64.91	51.24	74.00	-22.76	peak
4	5847.517	7.83	32.46	52.84	64.49	51.94	74.00	-22.06	peak
5	7386.000	8.38	36.27	53.54	61.57	52.68	74.00	-21.32	peak
6	9848.000	11.23	38.07	53.35	57.66	53.61	74.00	-20.39	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2211000472AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2211000472AT



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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	8.416	8.510	98.90	0.05	0.00
		2437	8.417	8.510	98.91	0.05	0.00
		2462	8.416	8.510	98.90	0.05	0.04
802.11g	SISO	2412	1.396	1.495	93.38	0.30	0.00
		2437	1.396	1.495	93.38	0.30	0.06
		2462	1.397	1.495	93.44	0.29	0.00
802.11n (HT20)	SISO	2412	1.308	1.407	92.96	0.32	0.00
		2437	1.308	1.407	92.96	0.32	0.07
		2462	1.309	1.407	93.03	0.31	0.00
802.11n (HT40)	SISO	2422	0.648	0.746	86.86	0.61	0.00
		2437	0.648	0.747	86.75	0.62	0.04
		2452	0.649	0.747	86.88	0.61	0.04



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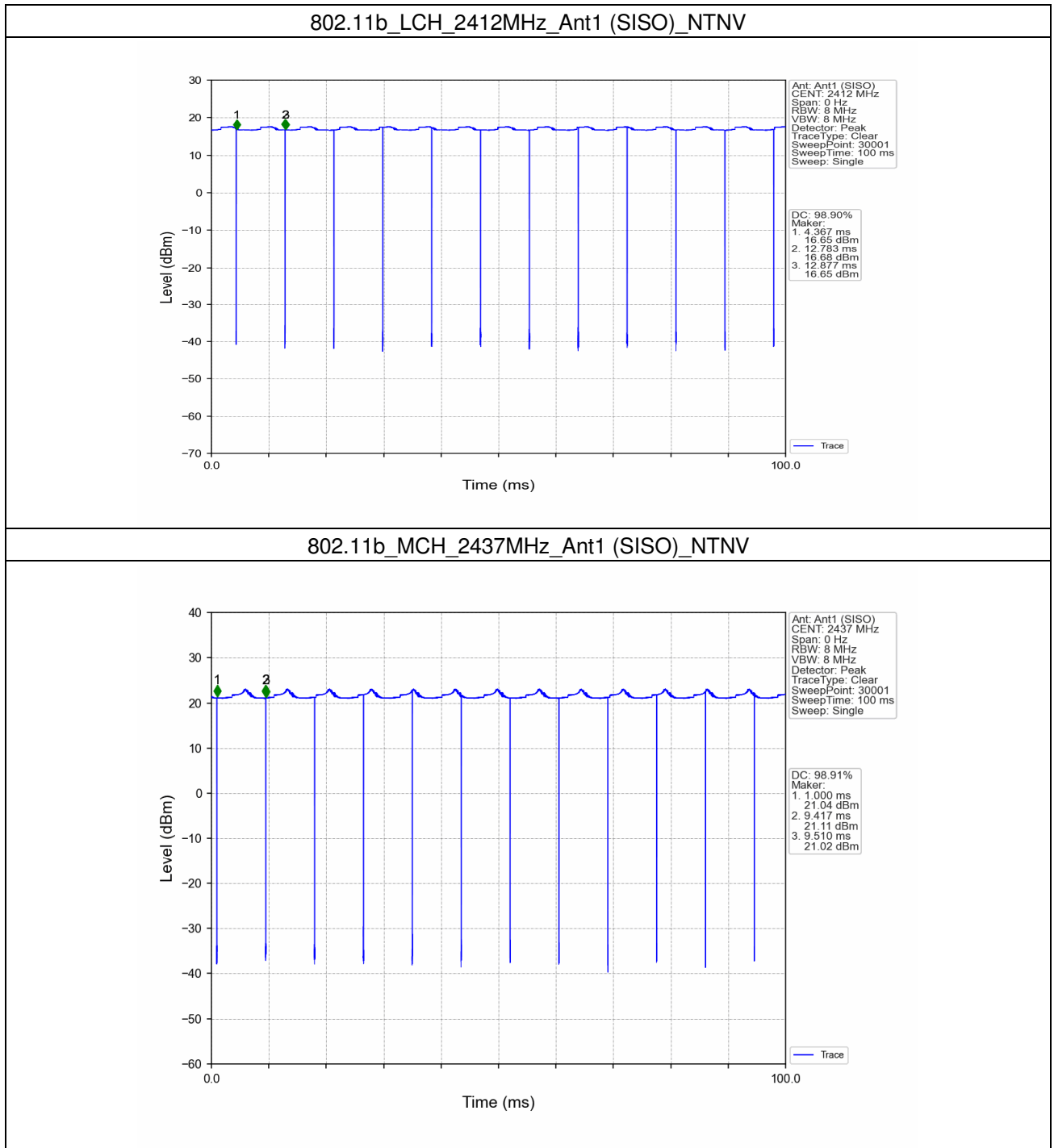
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1.1.2 Test Graph



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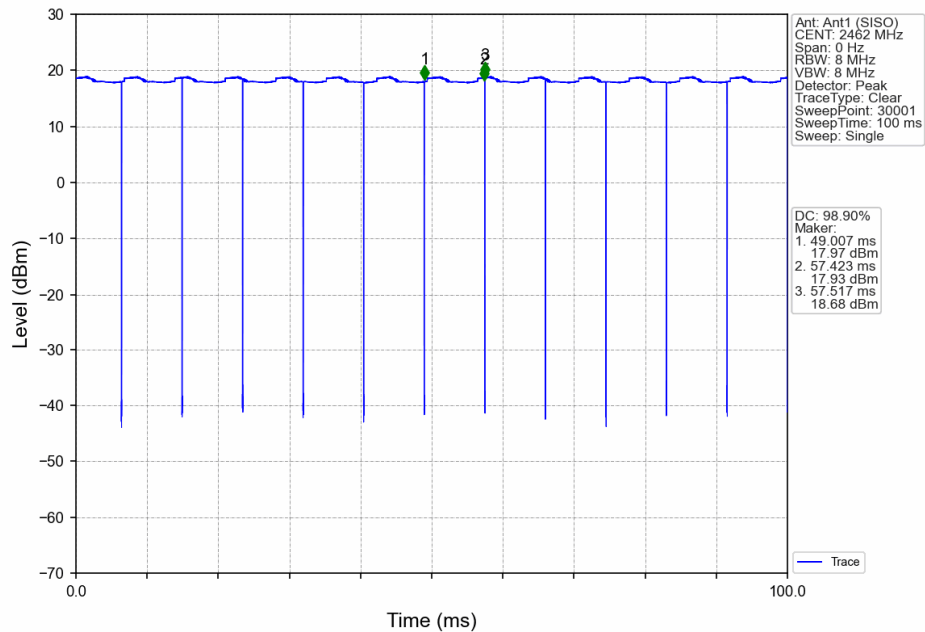
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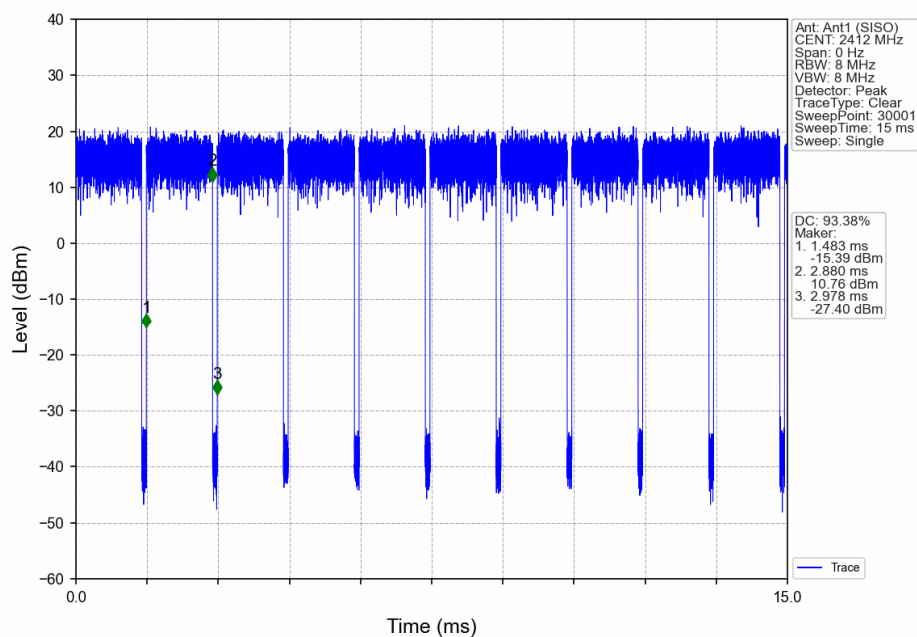
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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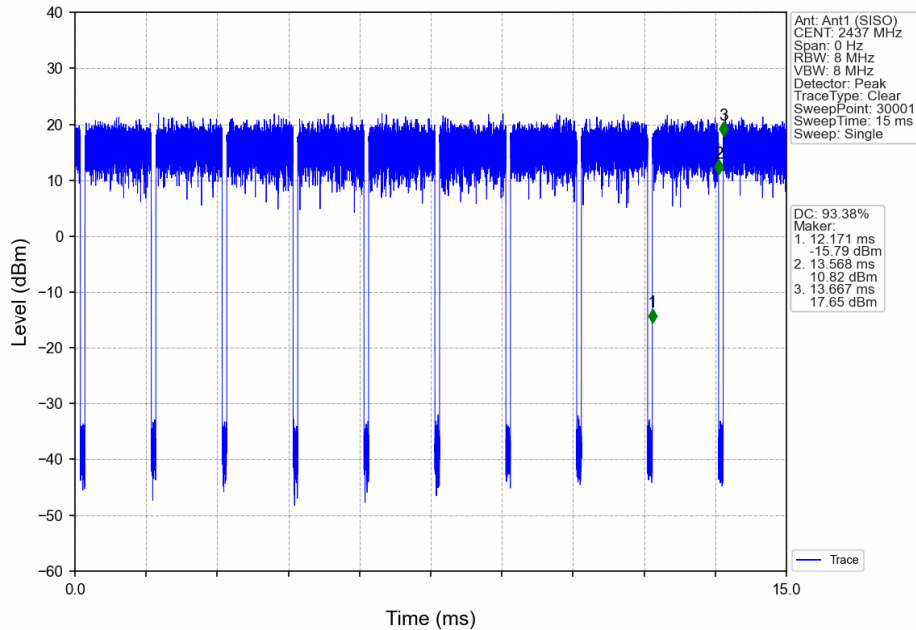
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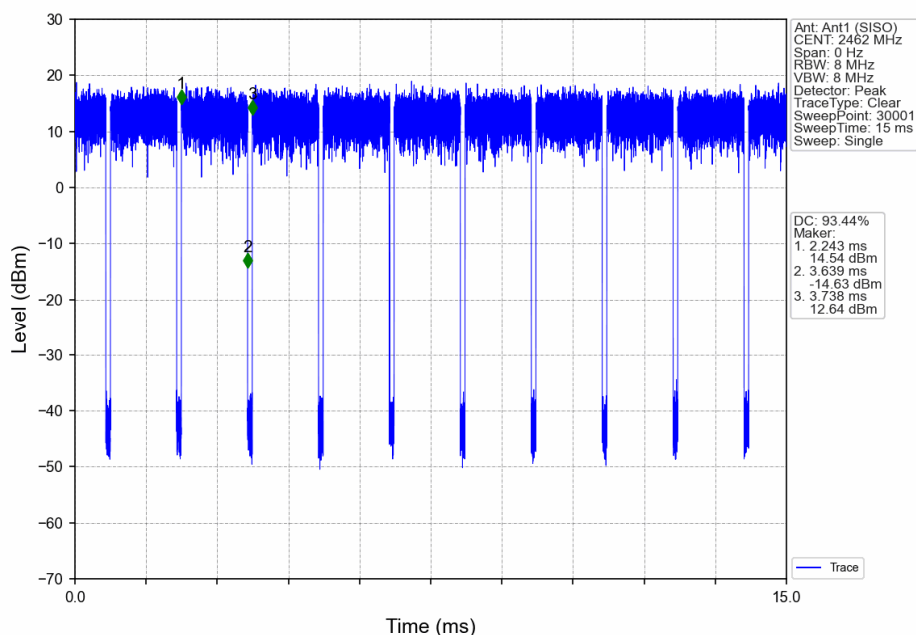
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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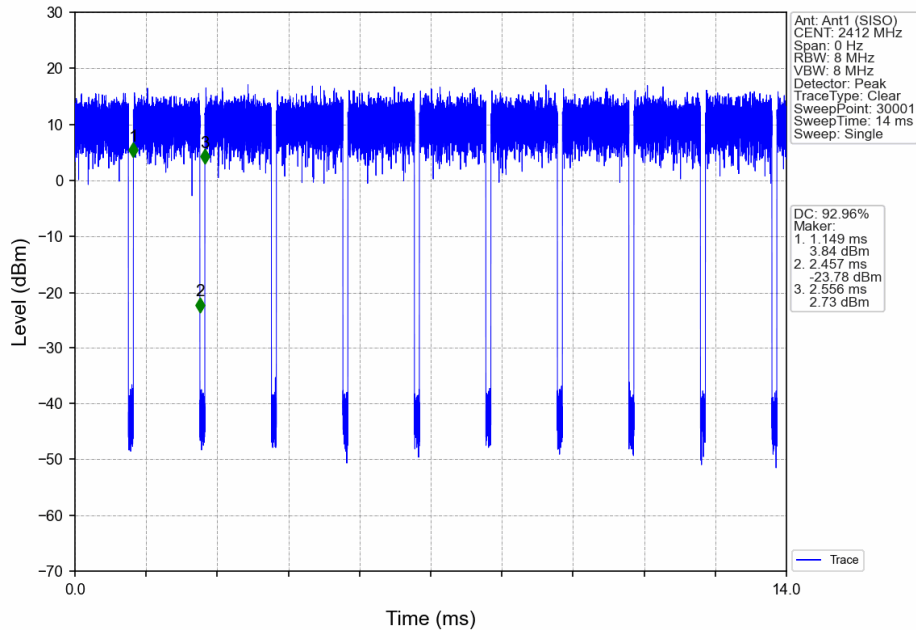
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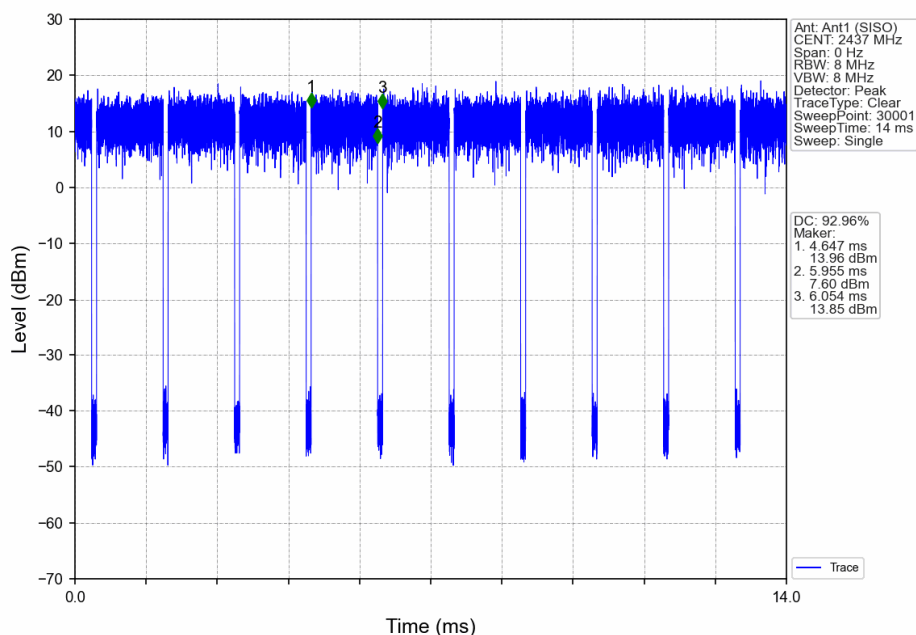
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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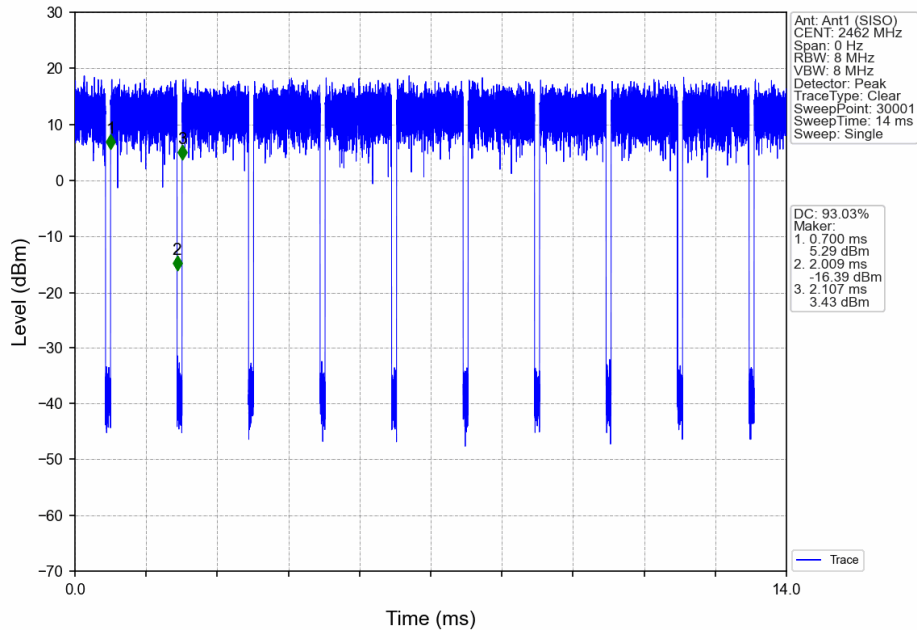
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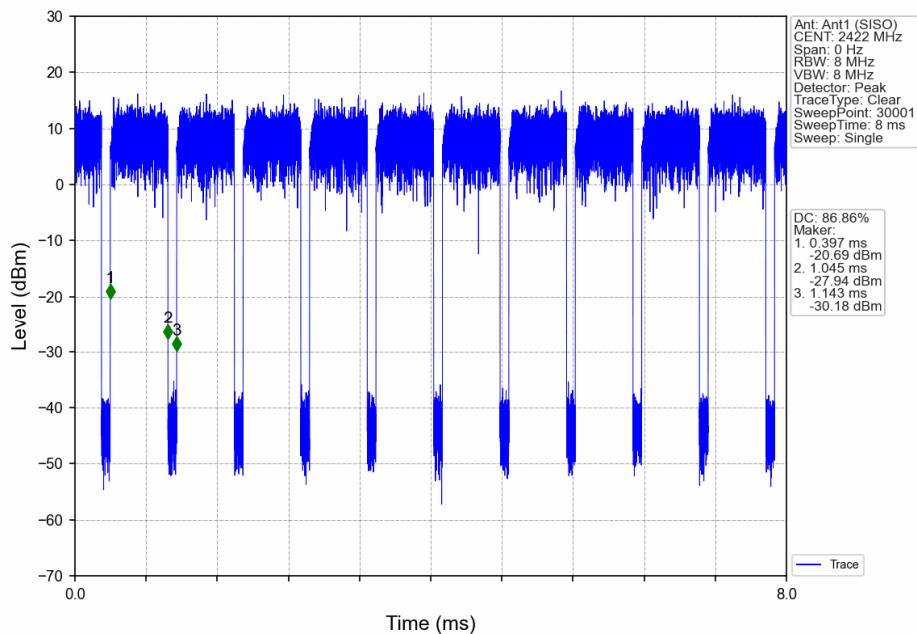
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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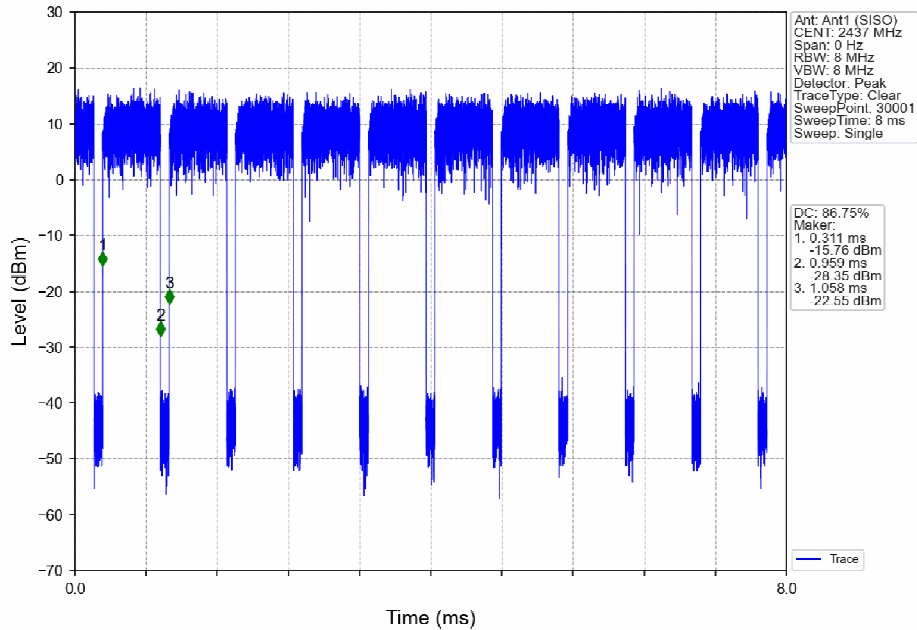
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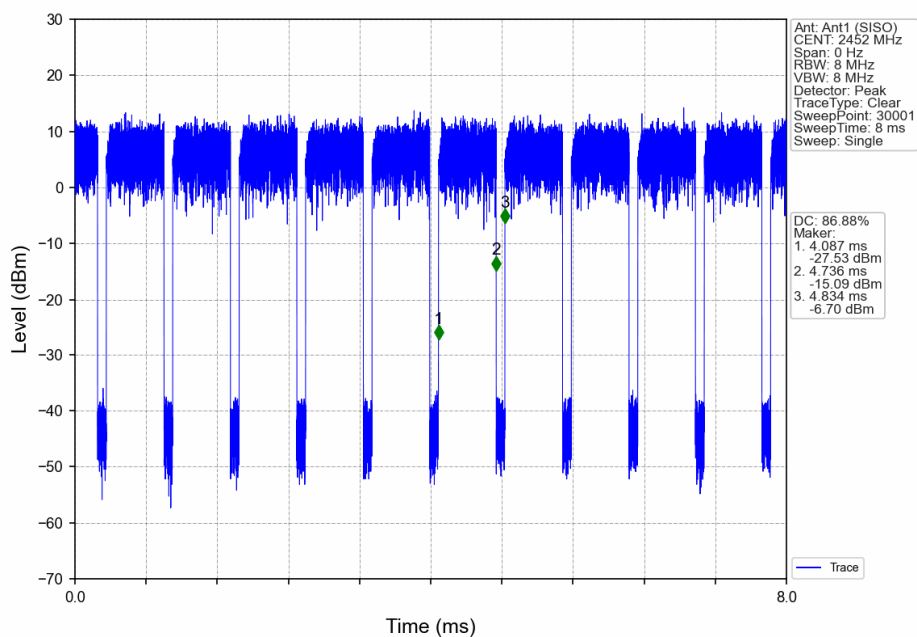
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	11.837	Pass
		2437	1	12.083	Pass
		2462	1	12.001	Pass
802.11g	SISO	2412	1	21.019	Pass
		2437	1	18.125	Pass
		2462	1	19.185	Pass
802.11n (HT20)	SISO	2412	1	20.138	Pass
		2437	1	19.855	Pass
		2462	1	19.612	Pass
802.11n (HT40)	SISO	2422	1	37.049	Pass
		2437	1	37.339	Pass
		2452	1	36.979	Pass



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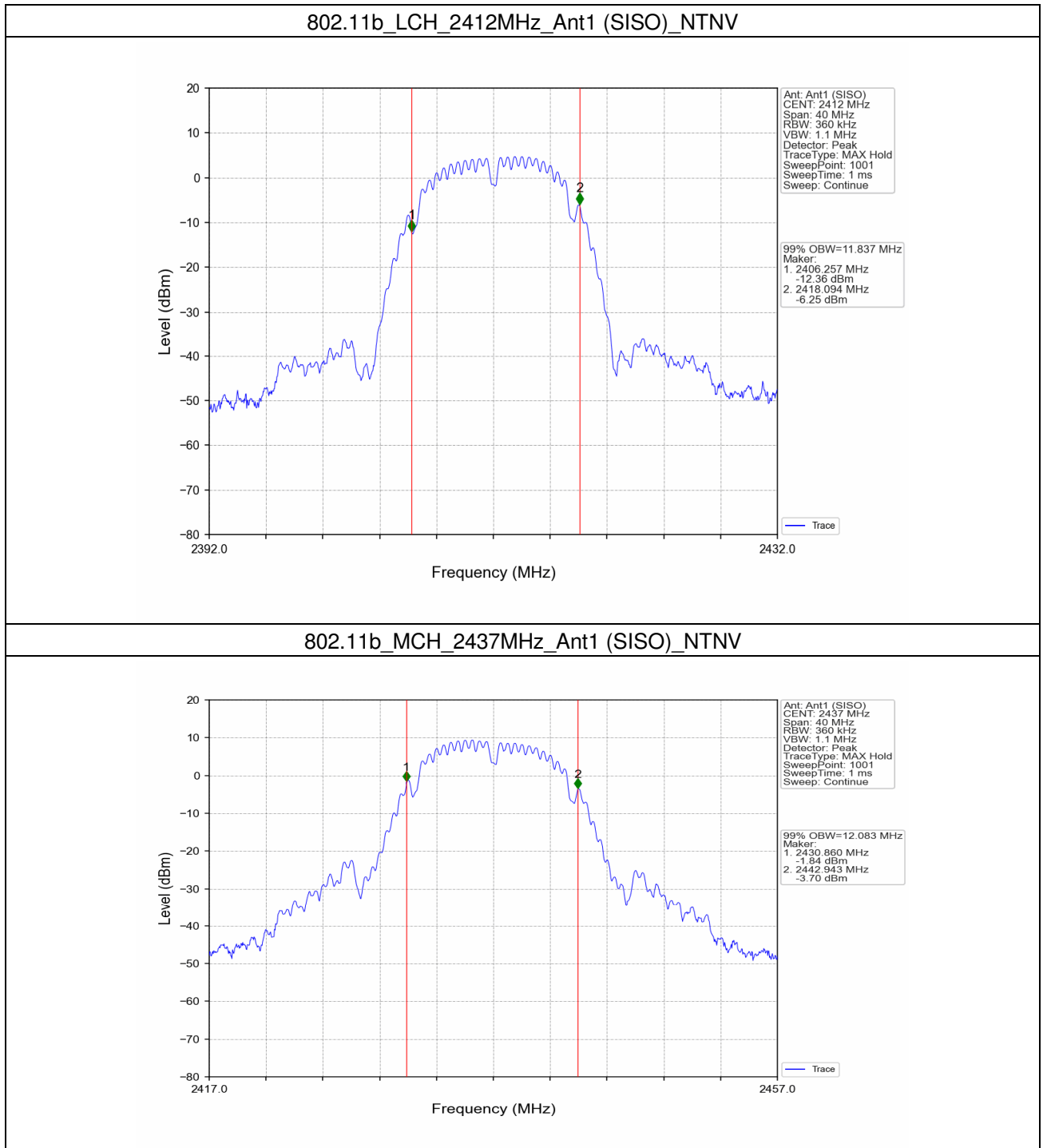
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2.1.2 Test Graph



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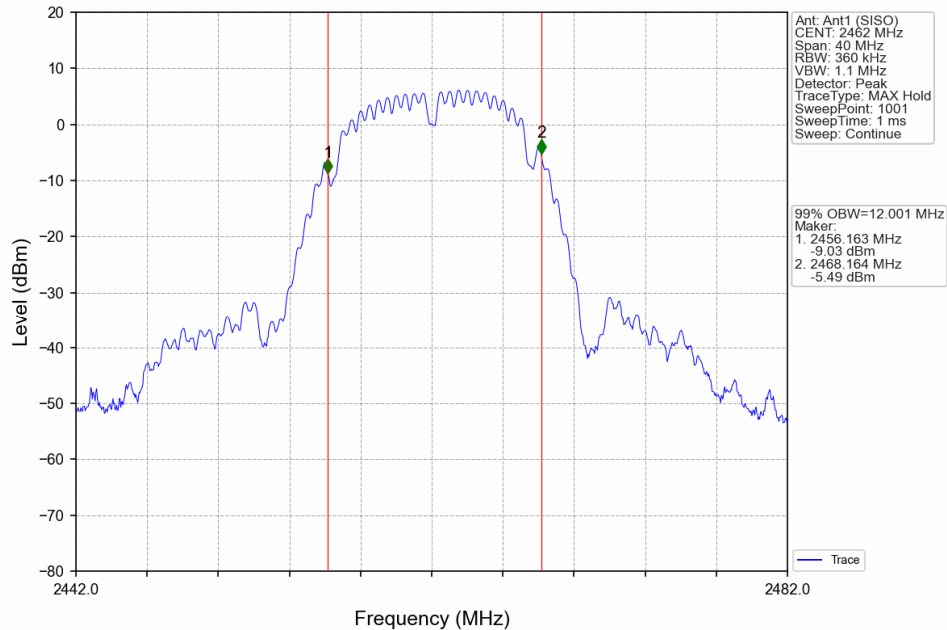
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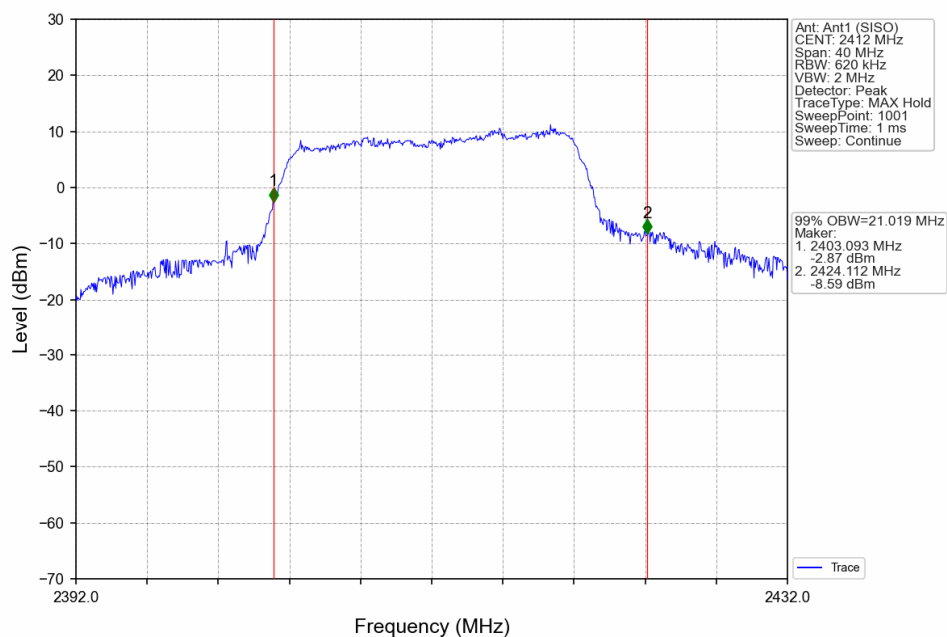
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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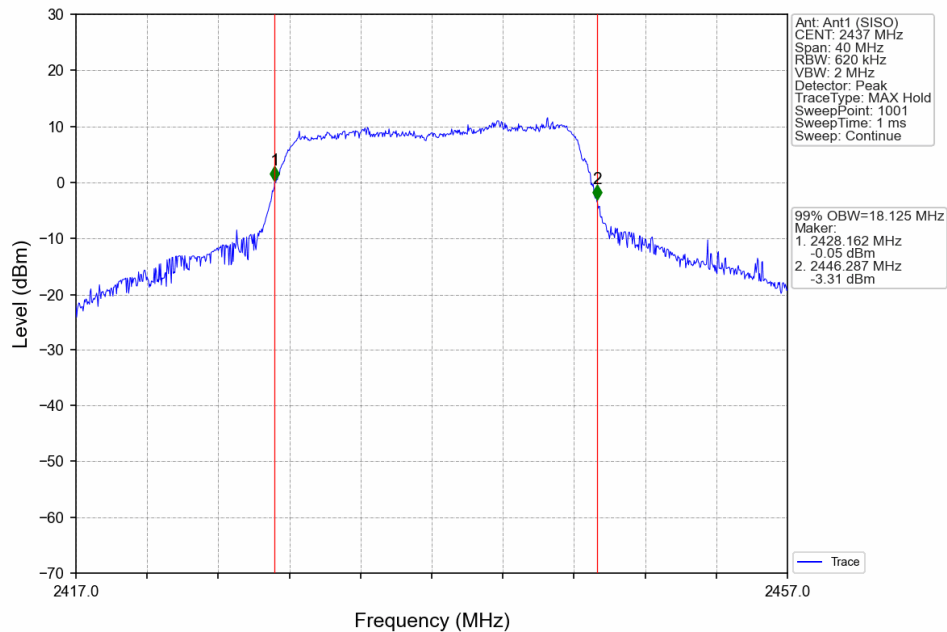
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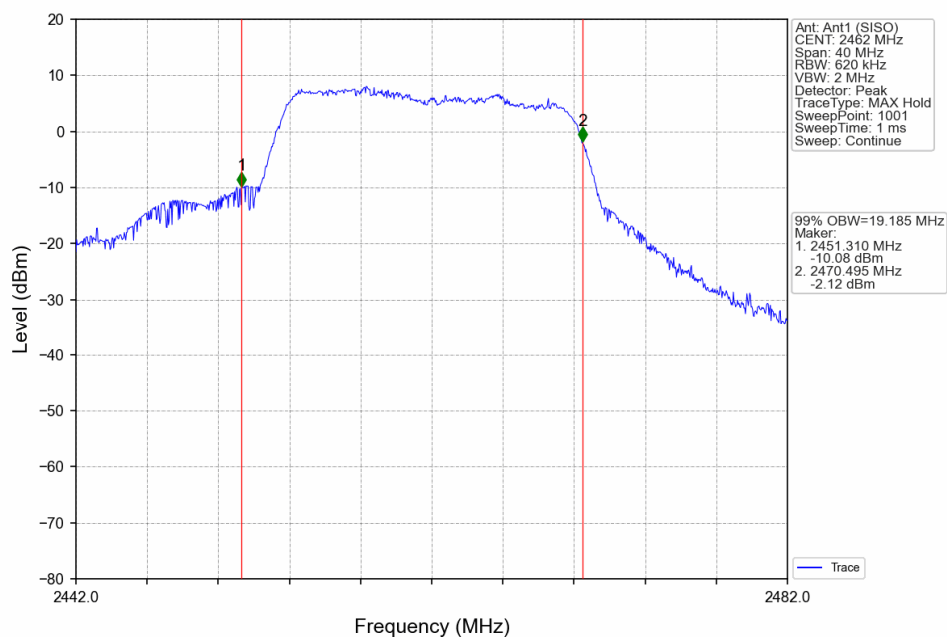
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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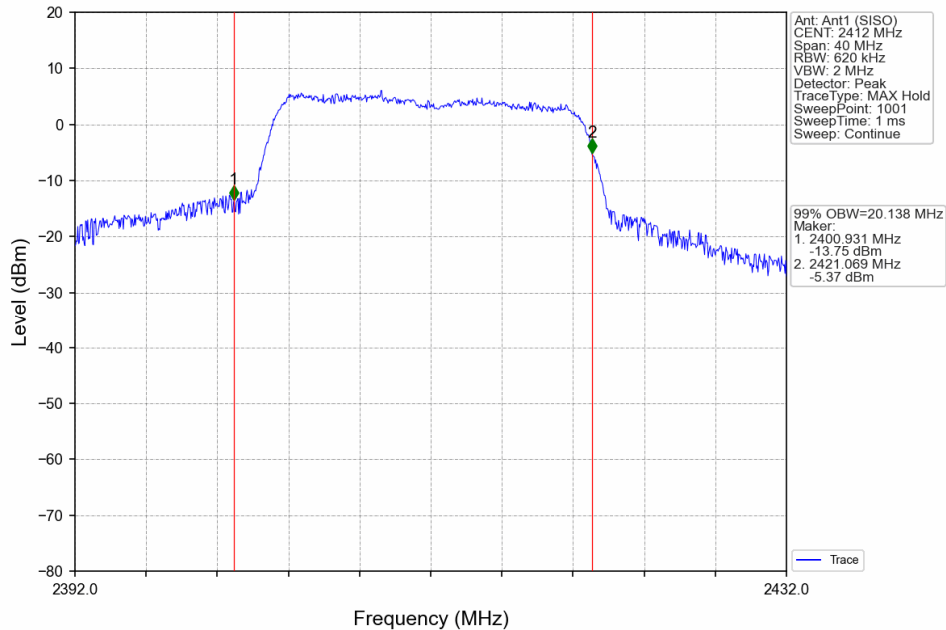
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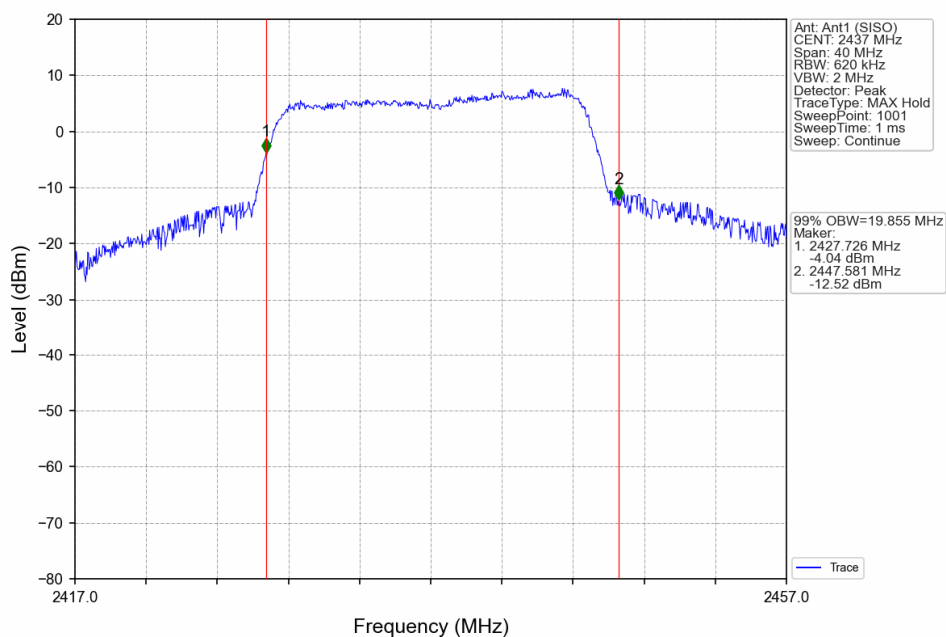
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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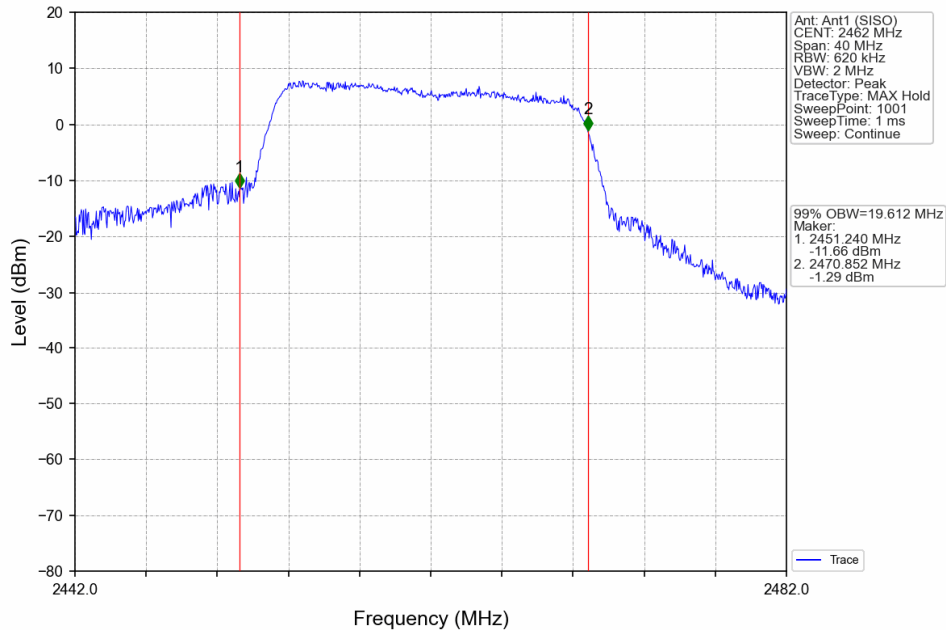
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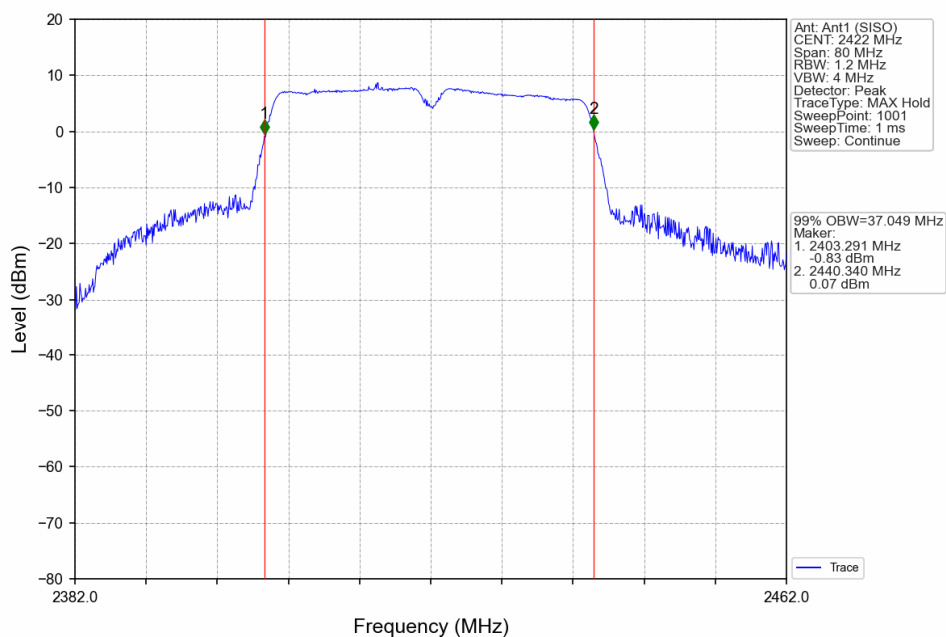
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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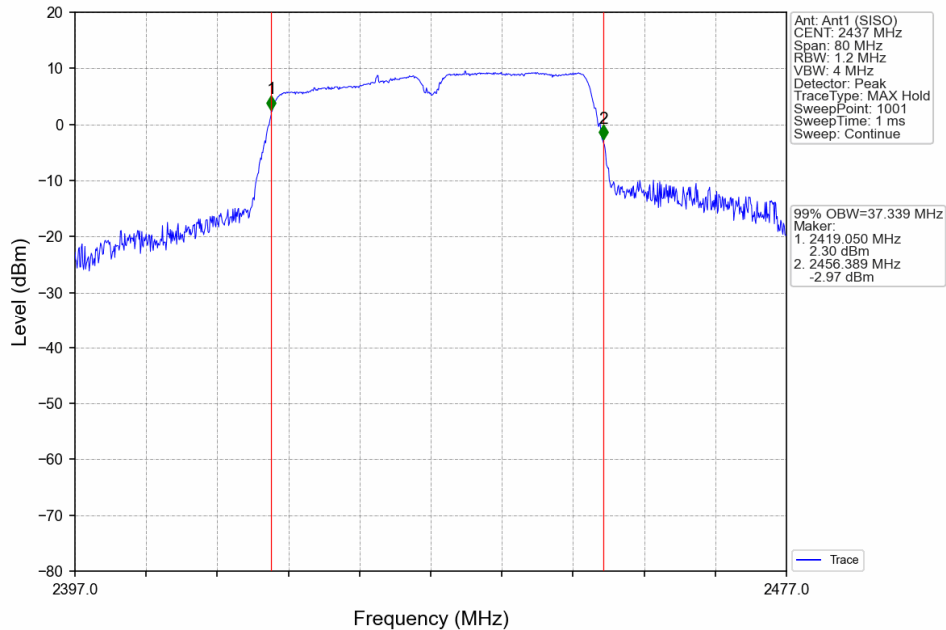
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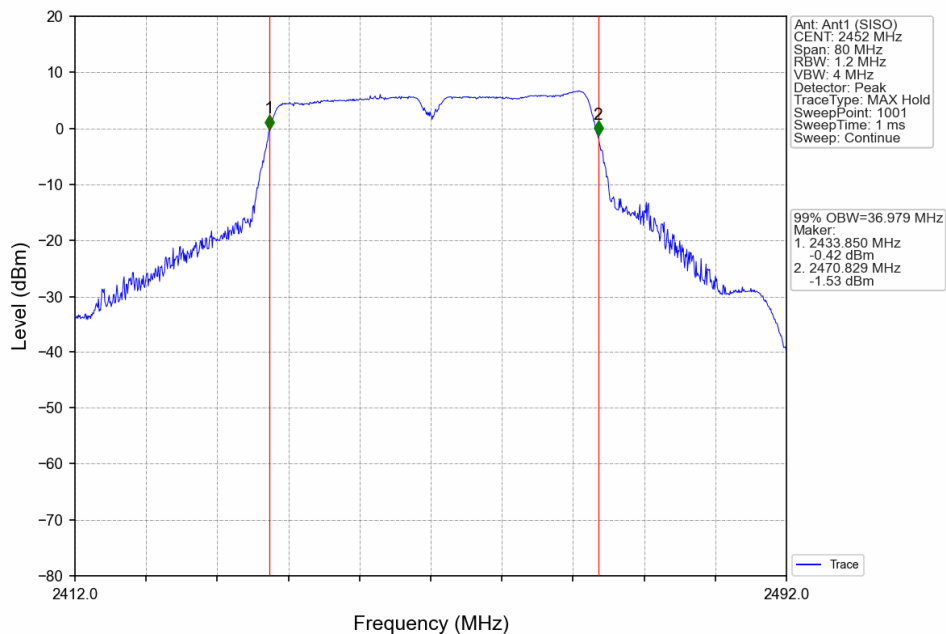
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_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	9.562	≥ 0.5	Pass
		2437	1	9.097	≥ 0.5	Pass
		2462	1	9.571	≥ 0.5	Pass
802.11g	SISO	2412	1	15.780	≥ 0.5	Pass
		2437	1	16.124	≥ 0.5	Pass
		2462	1	15.810	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.572	≥ 0.5	Pass
		2437	1	16.942	≥ 0.5	Pass
		2462	1	16.386	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.752	≥ 0.5	Pass
		2437	1	35.726	≥ 0.5	Pass
		2452	1	35.812	≥ 0.5	Pass



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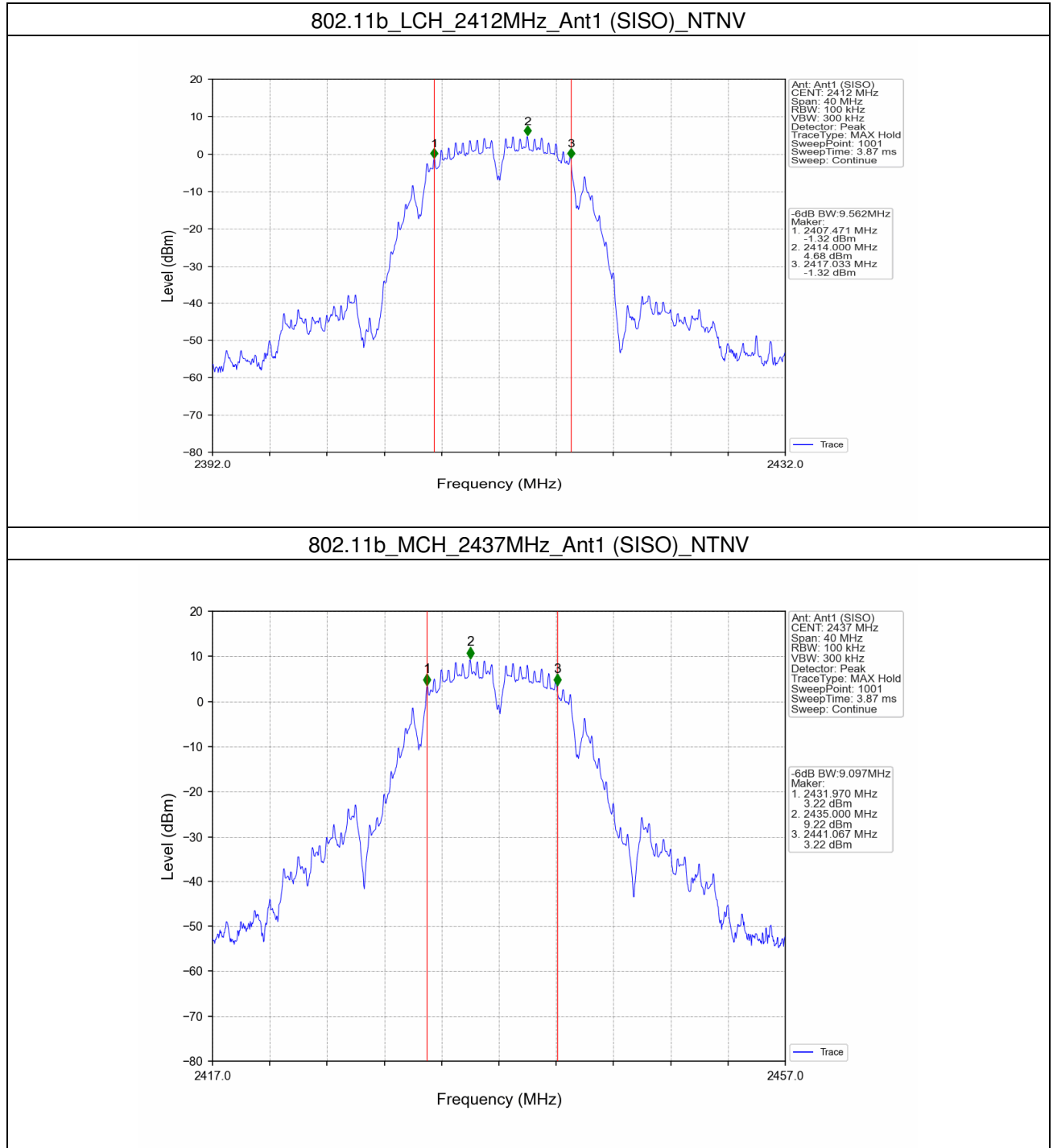
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2.2.2 Test Graph



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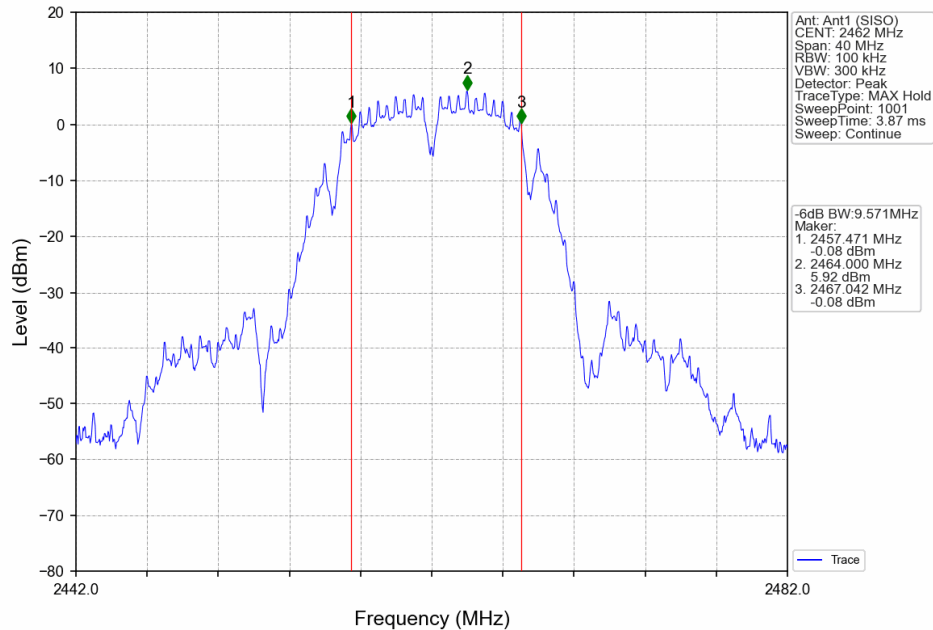
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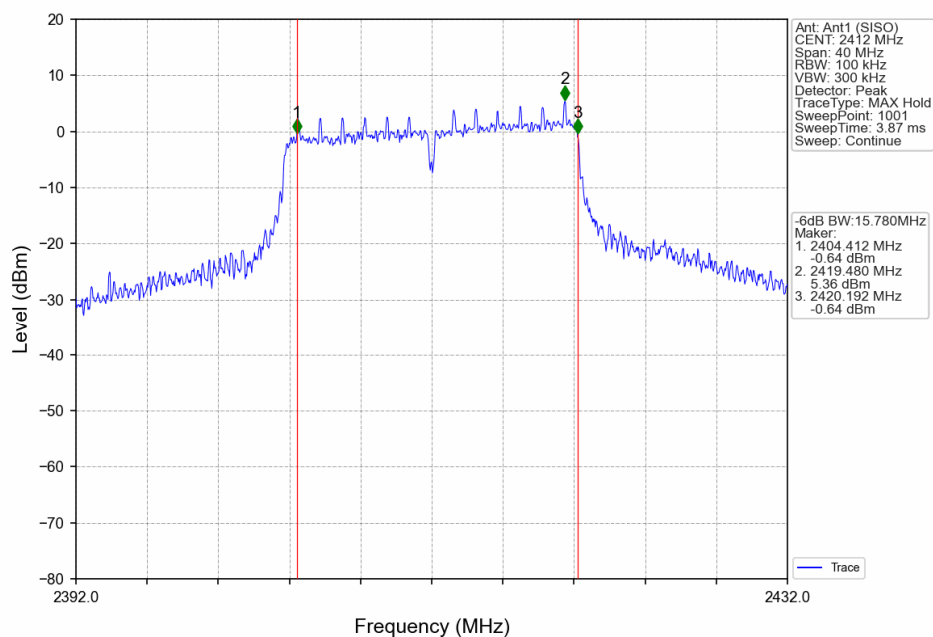
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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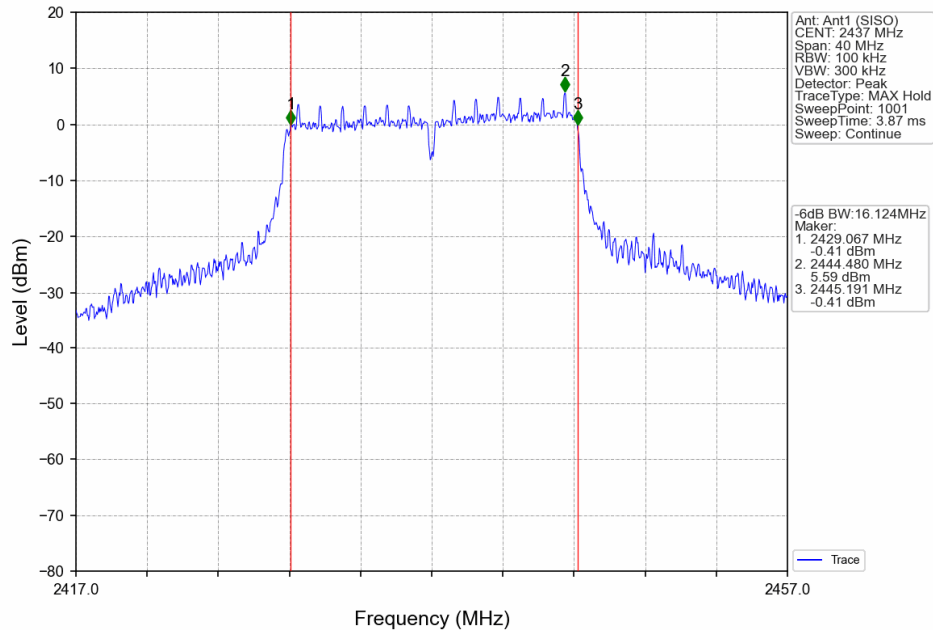
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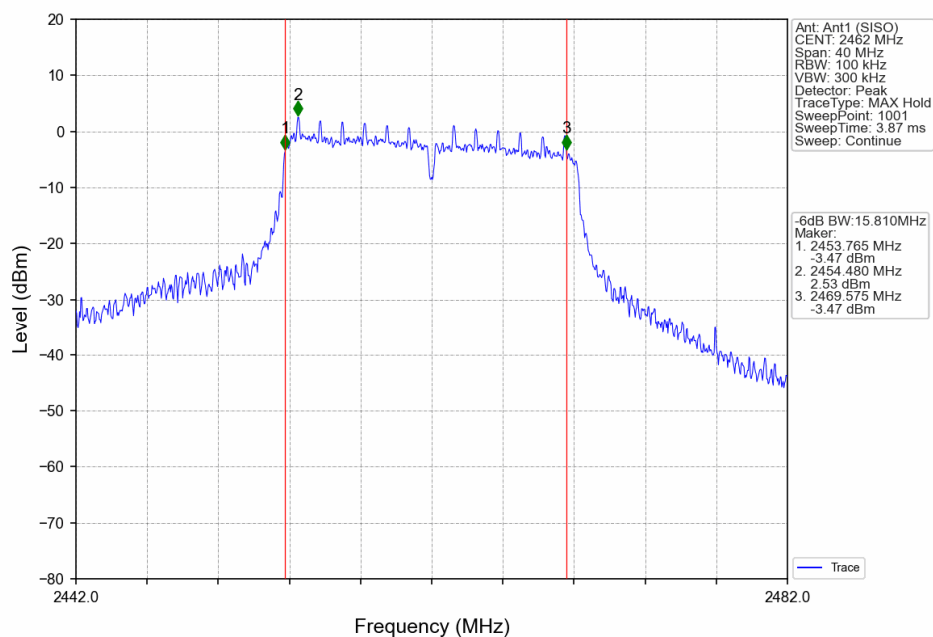
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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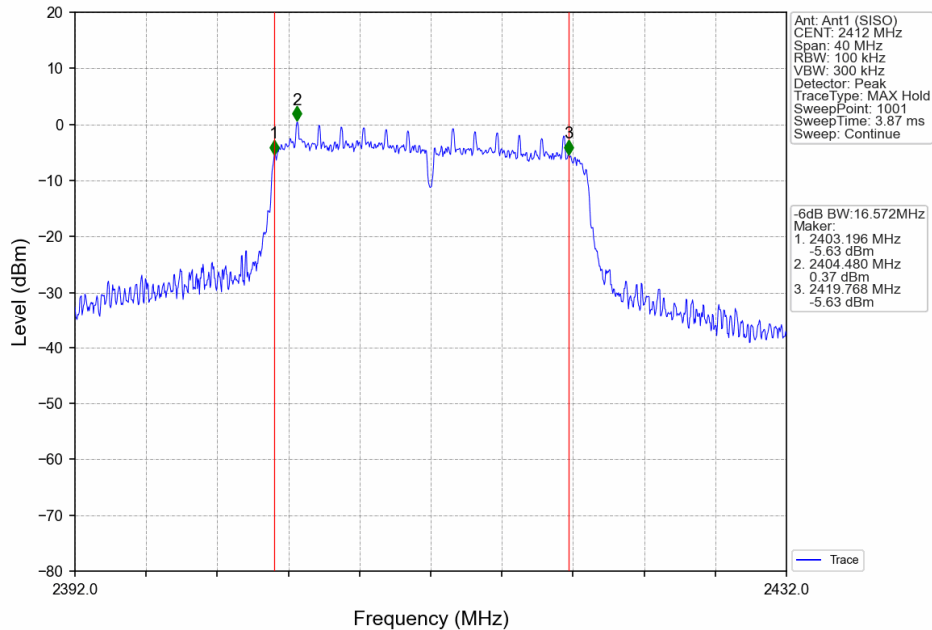
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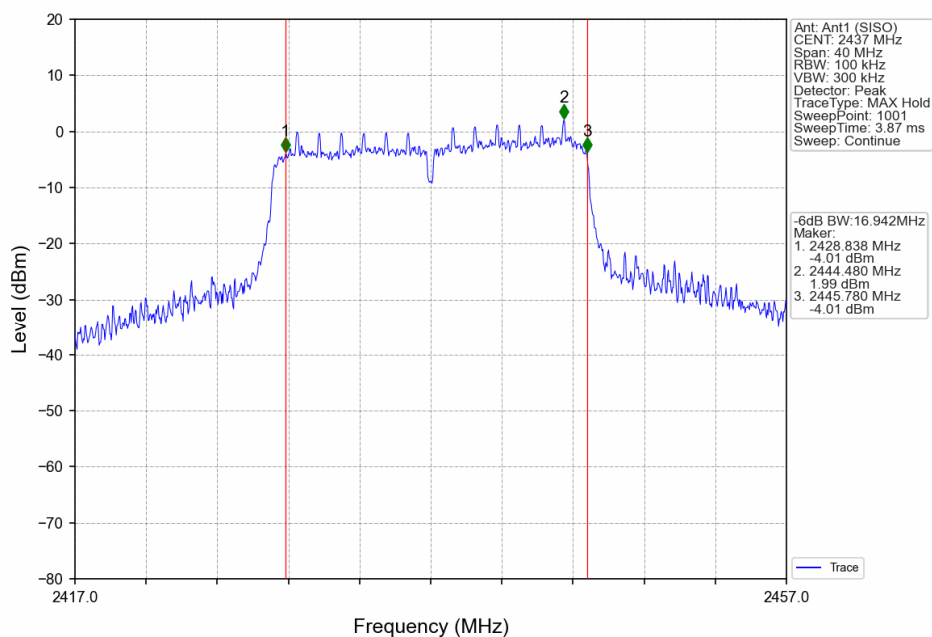
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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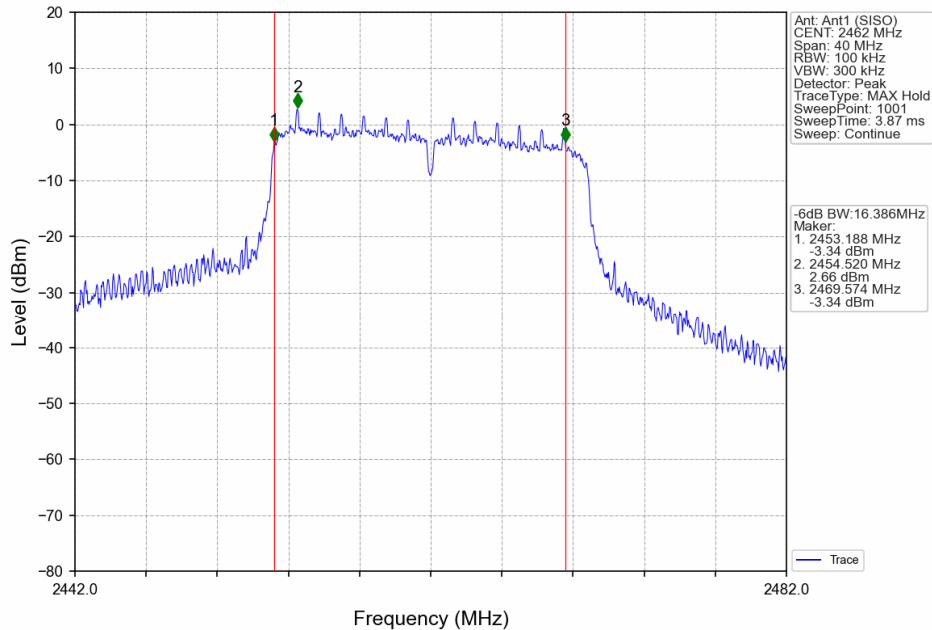
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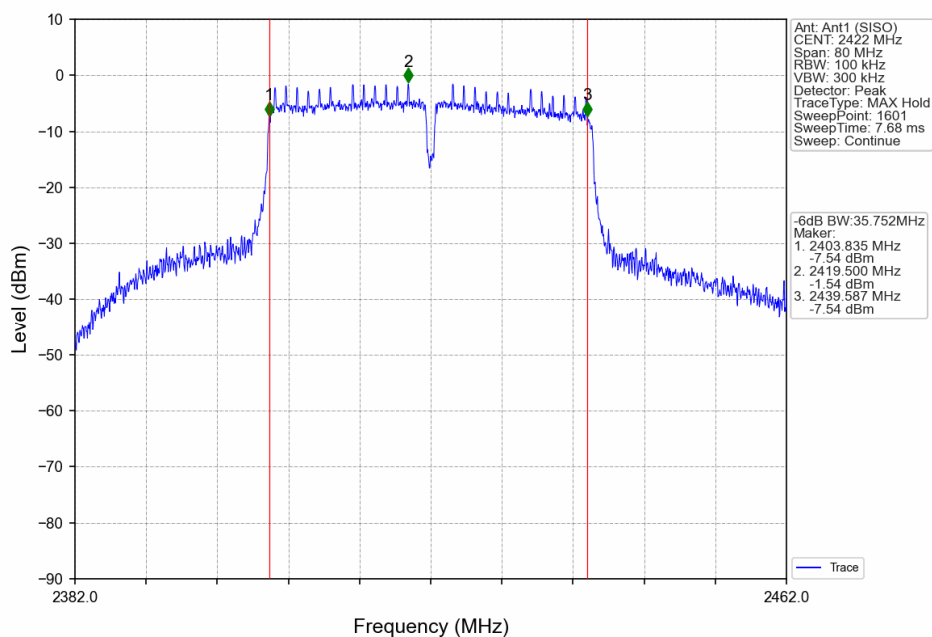
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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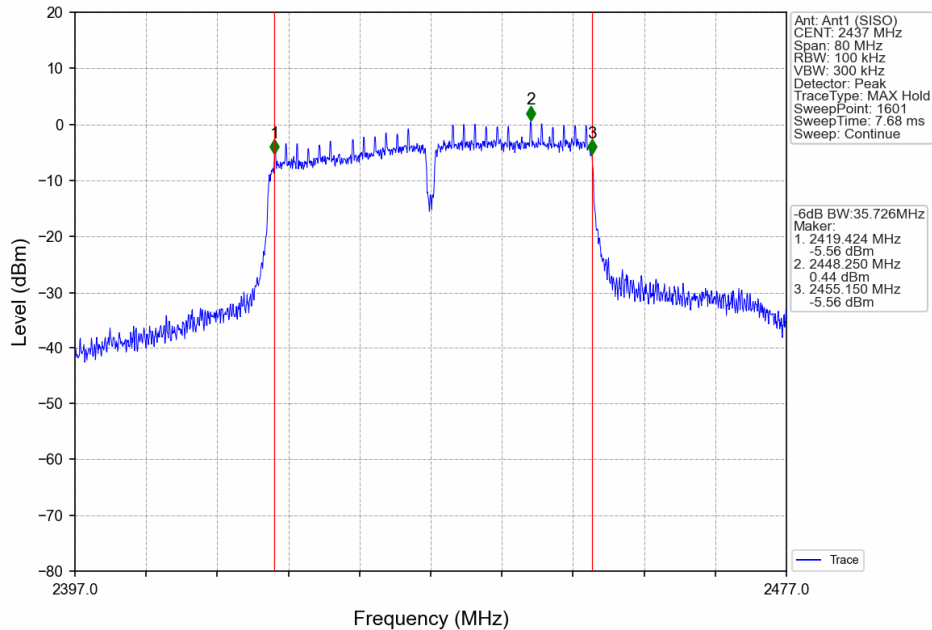
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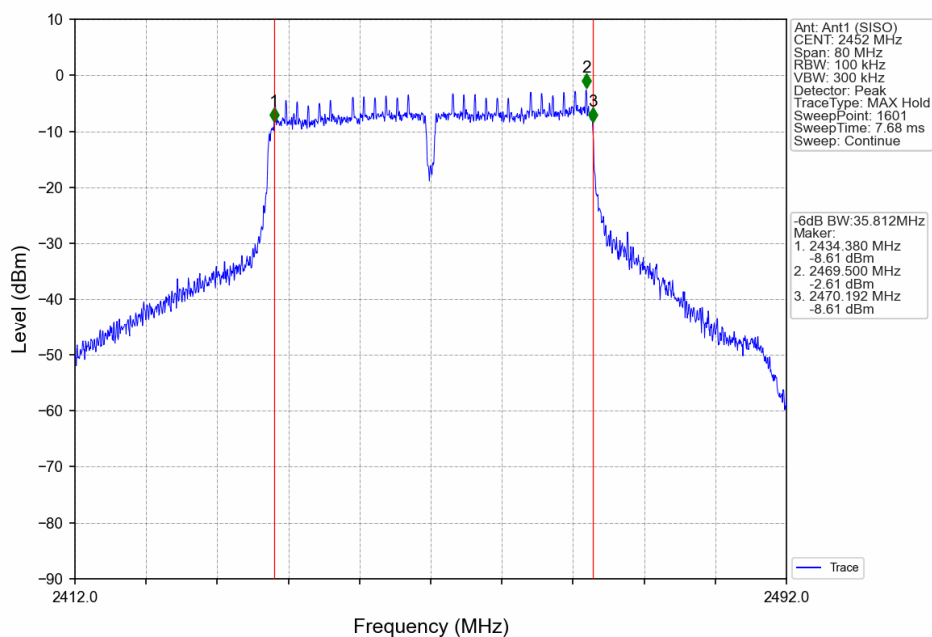
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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 Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.34	≤ 30	Pass
		2437	15.66	≤ 30	Pass
		2462	15.78	≤ 30	Pass
802.11g	SISO	2412	19.48	≤ 30	Pass
		2437	20.16	≤ 30	Pass
		2462	20.38	≤ 30	Pass
802.11n (HT20)	SISO	2412	19.37	≤ 30	Pass
		2437	20.16	≤ 30	Pass
		2462	20.29	≤ 30	Pass
802.11n (HT40)	SISO	2422	20.53	≤ 30	Pass
		2437	19.89	≤ 30	Pass
		2452	18.86	≤ 30	Pass

Note1: Antenna Gain: Ant1: -1.19dBi;



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-11.88	<=8	Pass
		2437	-9.61	<=8	Pass
		2462	-9.14	<=8	Pass
802.11g	SISO	2412	-13.63	<=8	Pass
		2437	-12.61	<=8	Pass
		2462	-12.69	<=8	Pass
802.11n (HT20)	SISO	2412	-13.98	<=8	Pass
		2437	-12.38	<=8	Pass
		2462	-12.08	<=8	Pass
802.11n (HT40)	SISO	2422	-16.33	<=8	Pass
		2437	-16.50	<=8	Pass
		2452	-17.93	<=8	Pass

Note1: Antenna Gain: Ant1: -1.19dBi;



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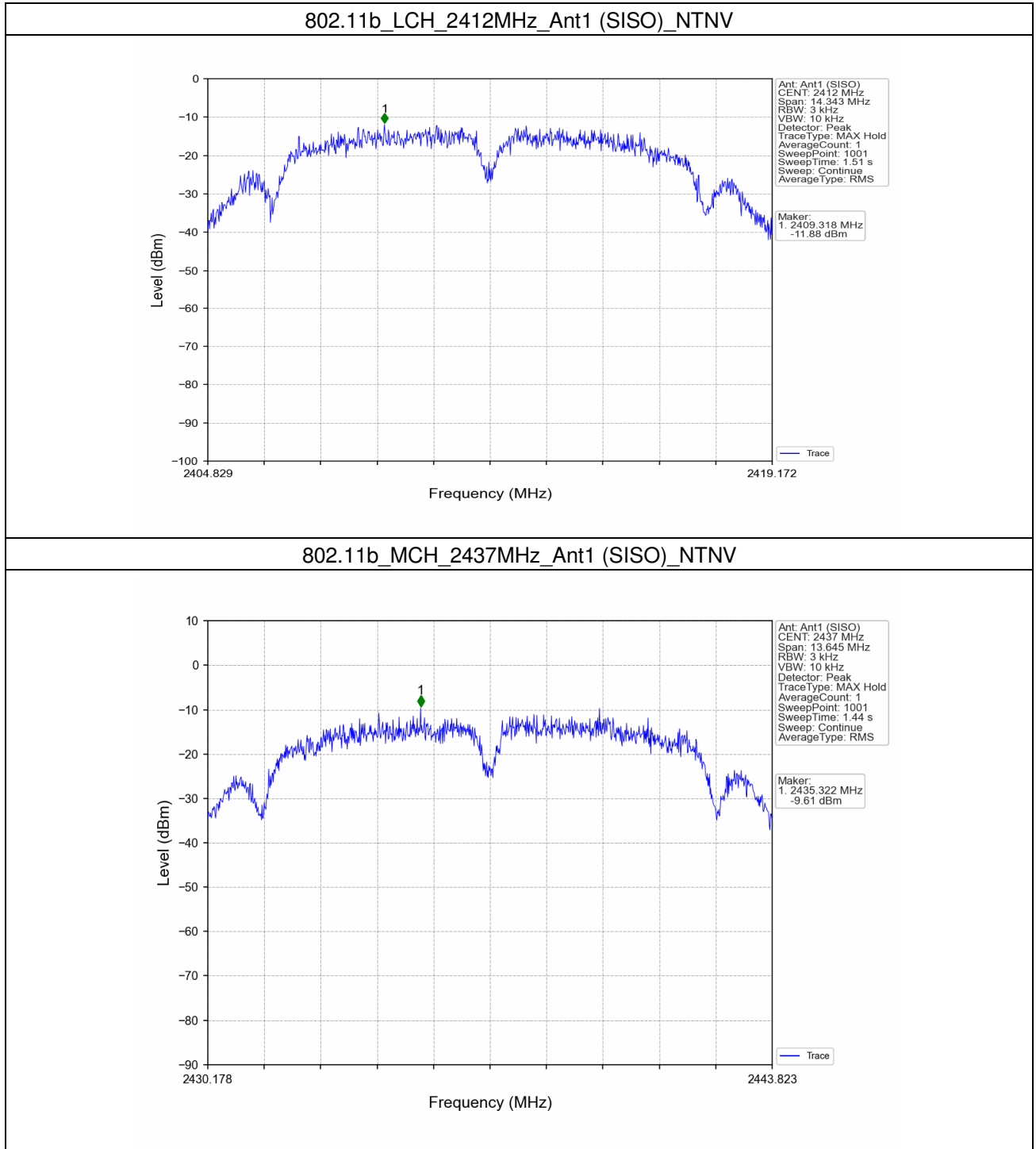
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4.1.2 Test Graph



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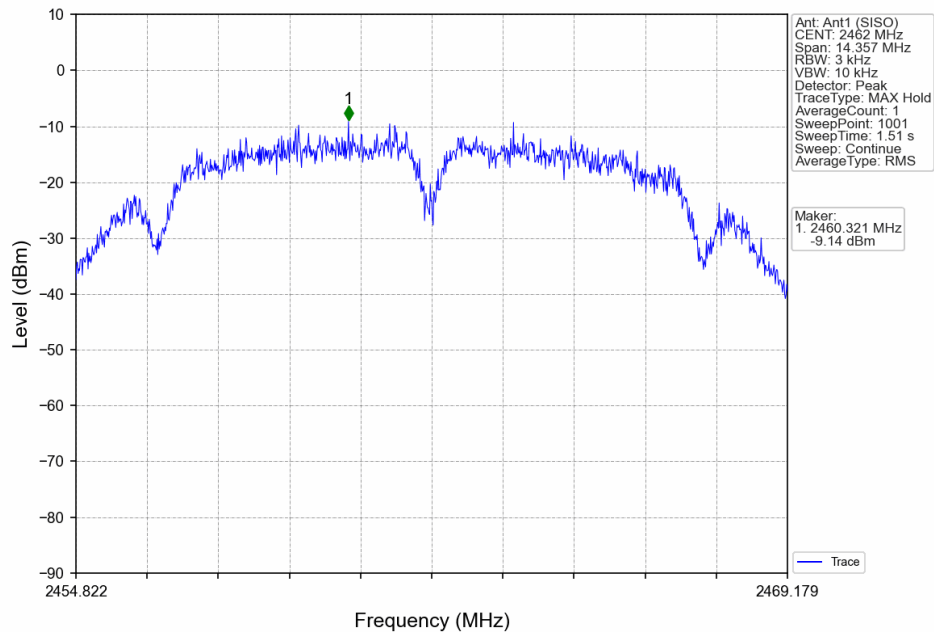
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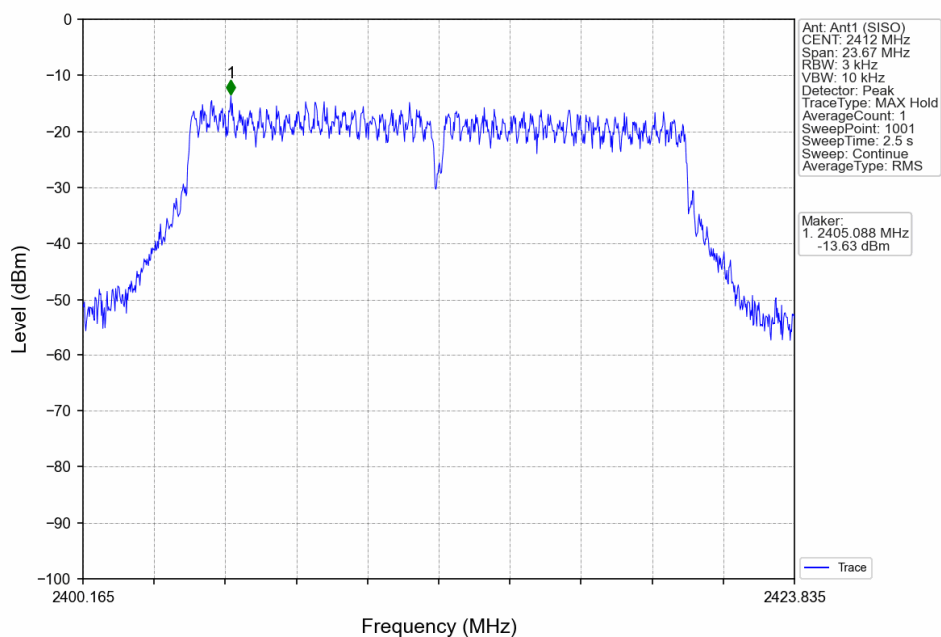
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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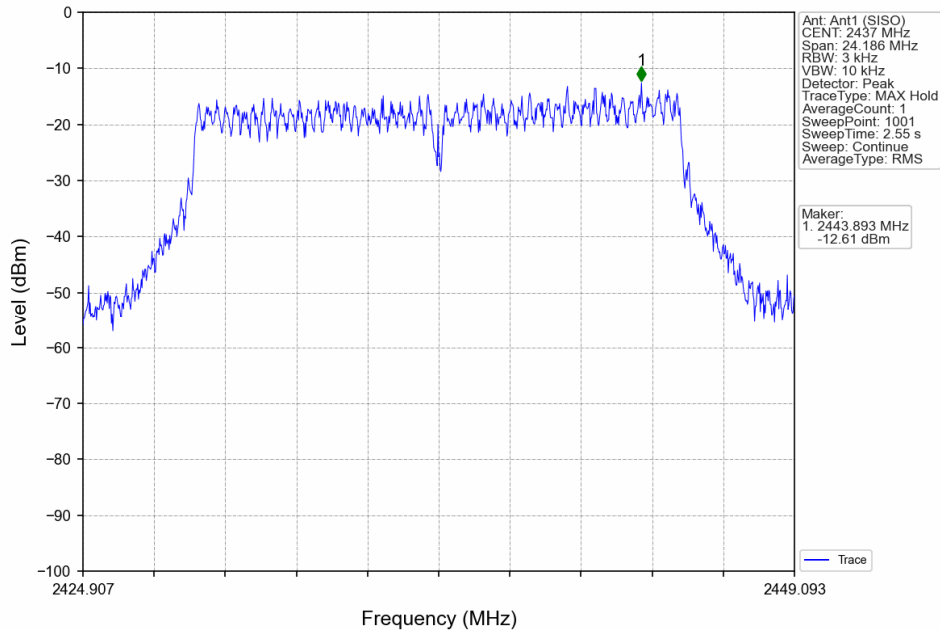
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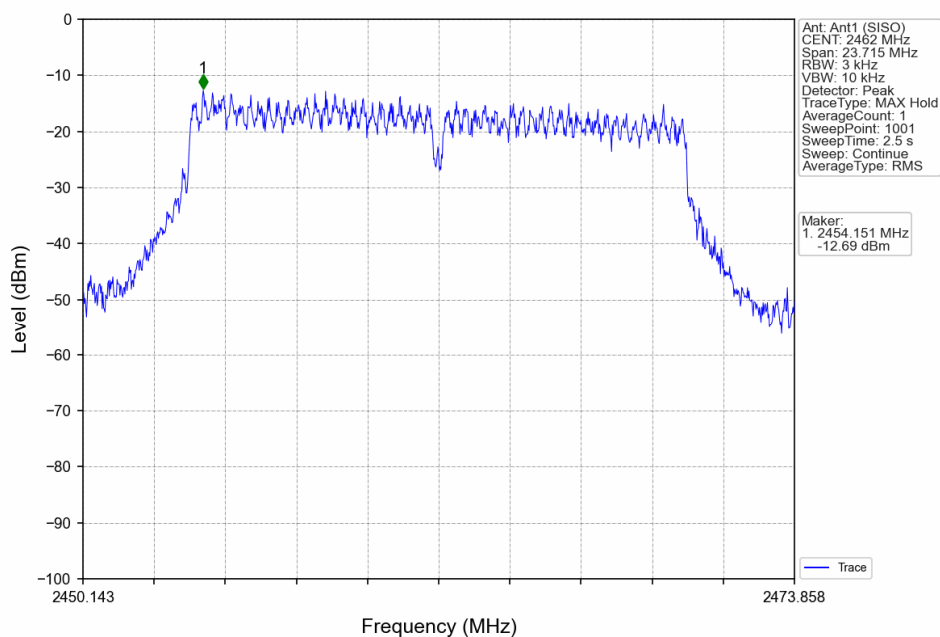
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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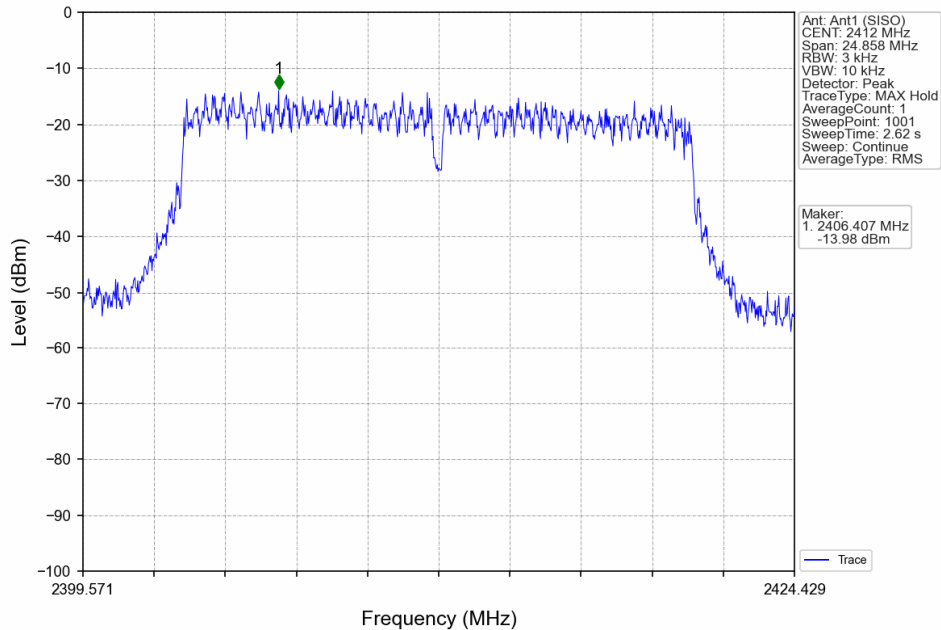
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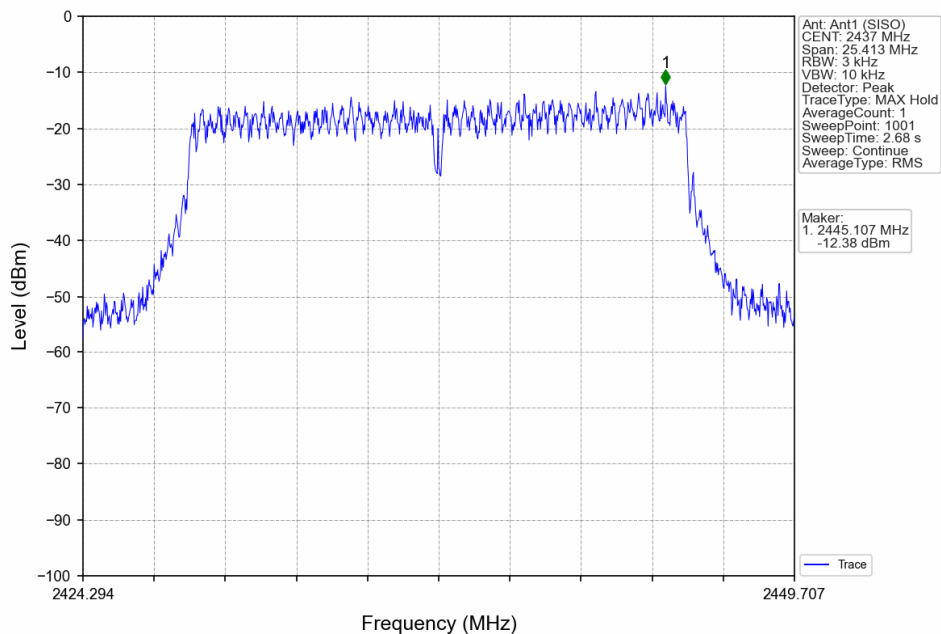
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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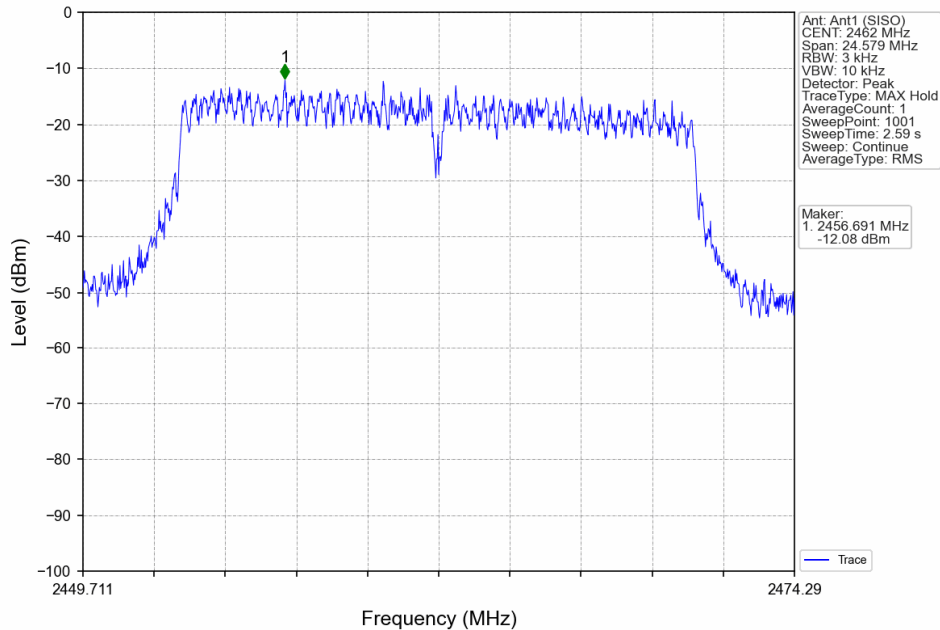
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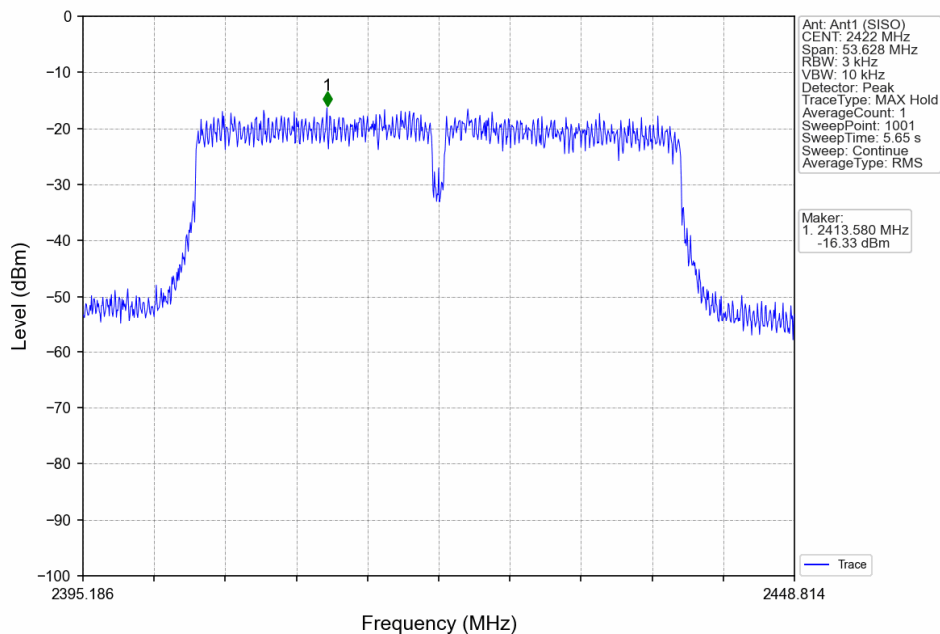
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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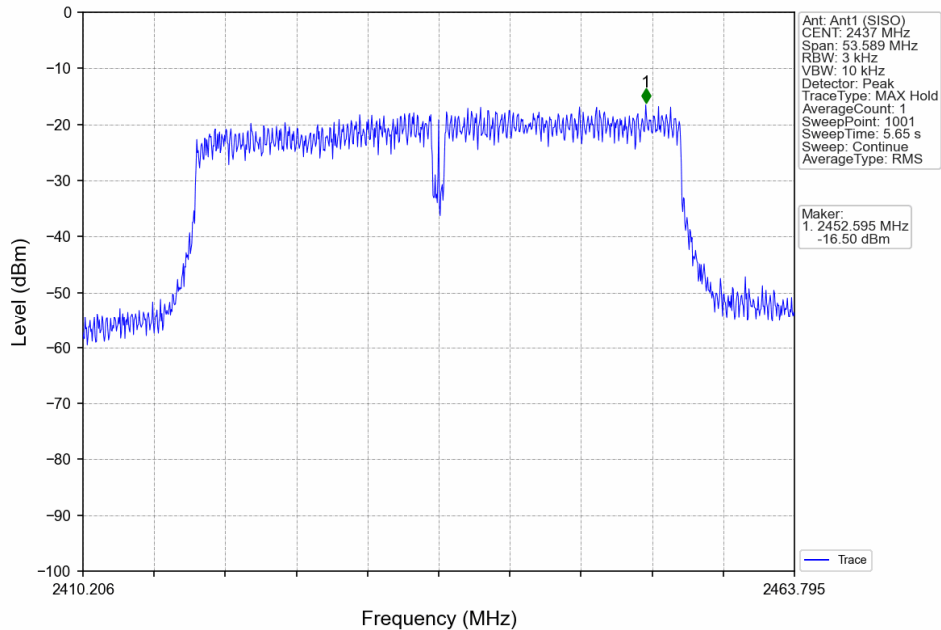
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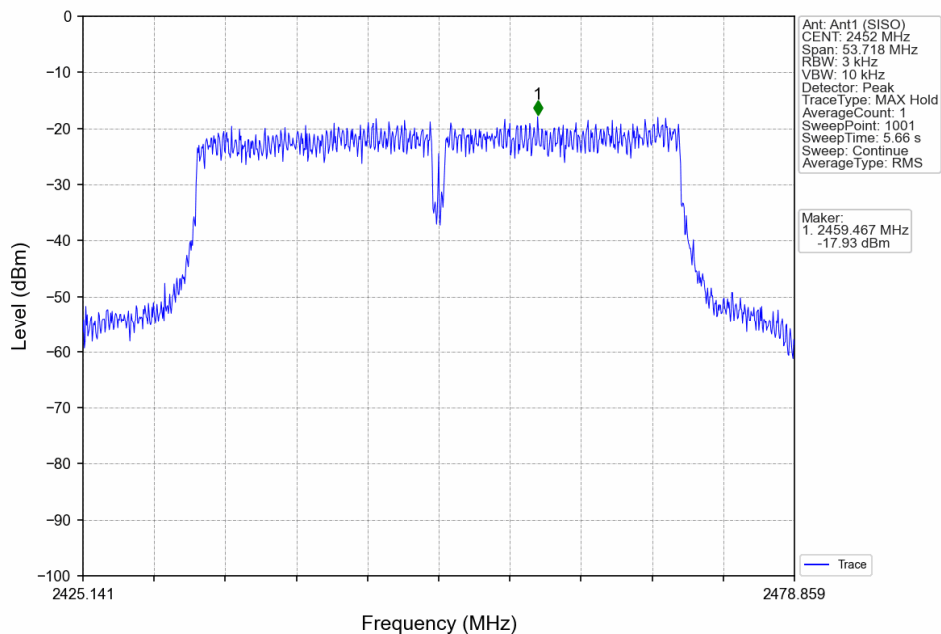
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	4.45
		2437	1	4.57
		2462	1	4.39
802.11g	SISO	2412	1	1.10
		2437	1	1.78
		2462	1	2.13
802.11n (HT20)	SISO	2412	1	1.31
		2437	1	2.00
		2462	1	1.78
802.11n (HT40)	SISO	2422	1	-1.62
		2437	1	-1.37
		2452	1	-1.68

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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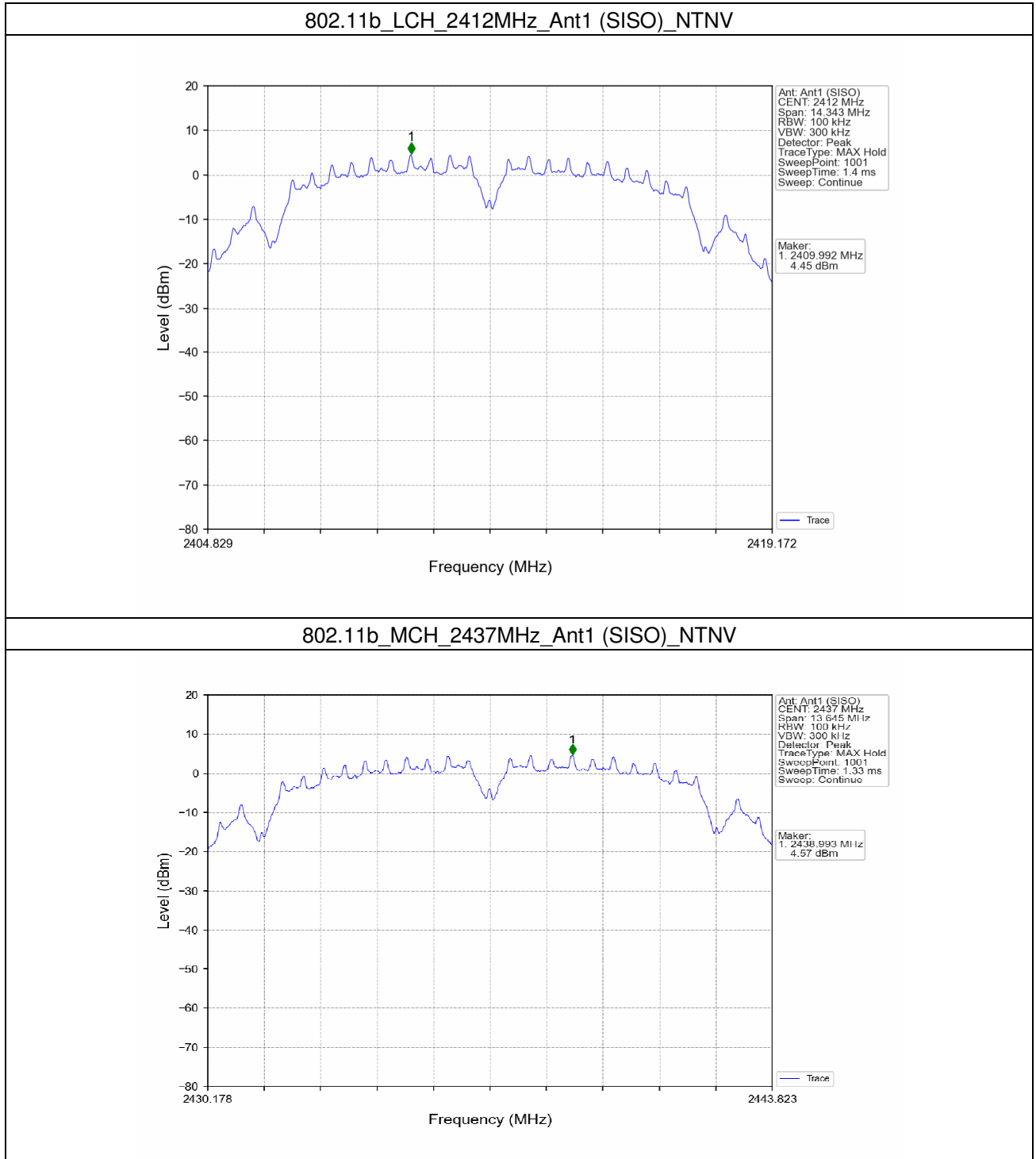
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5.1.2 Test Graph



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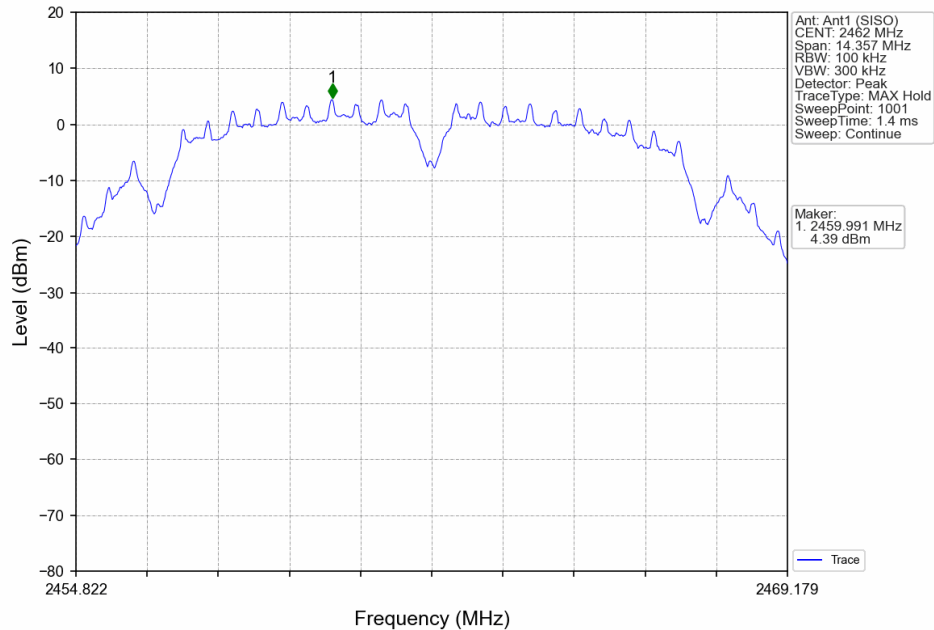
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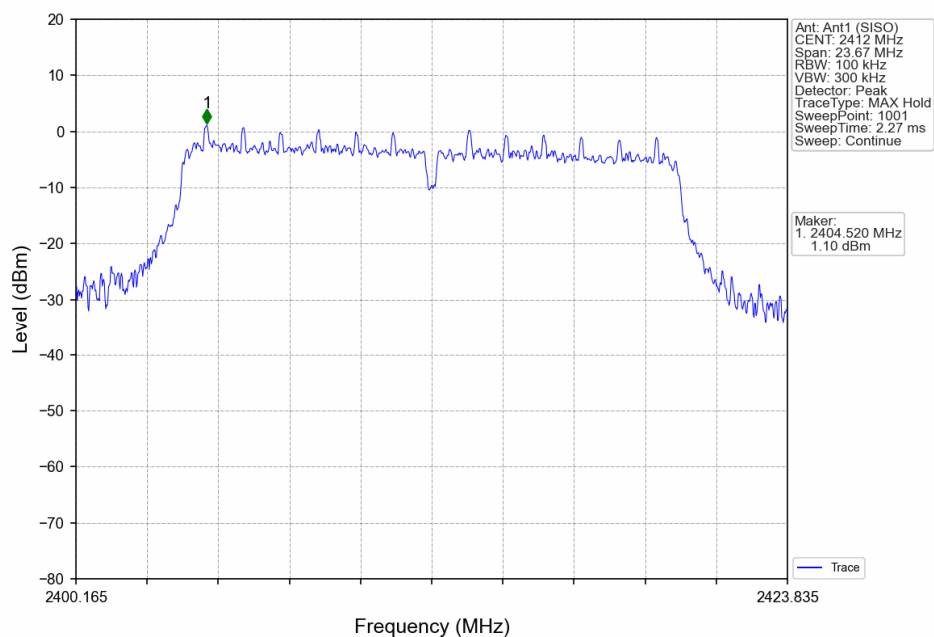
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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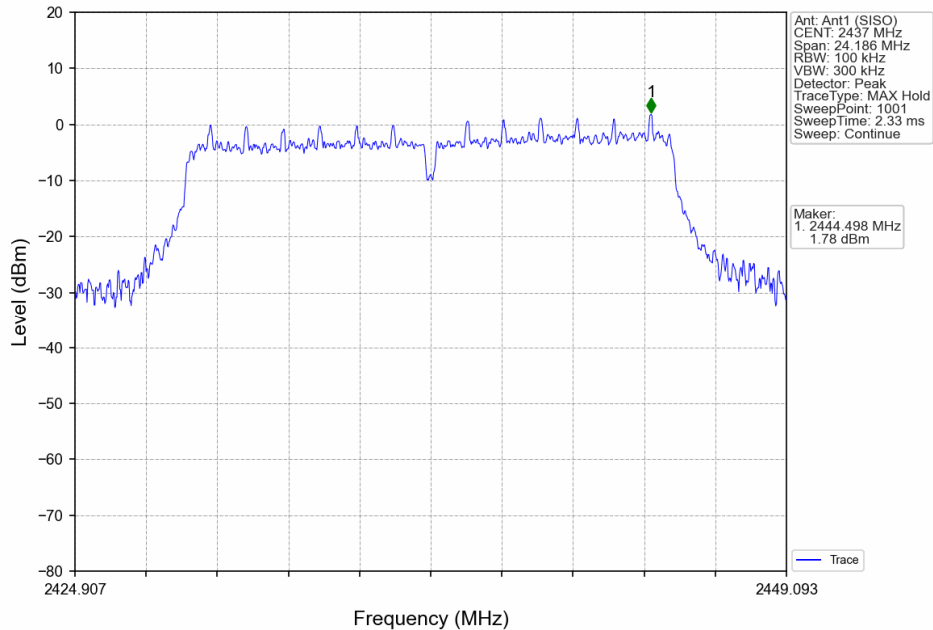
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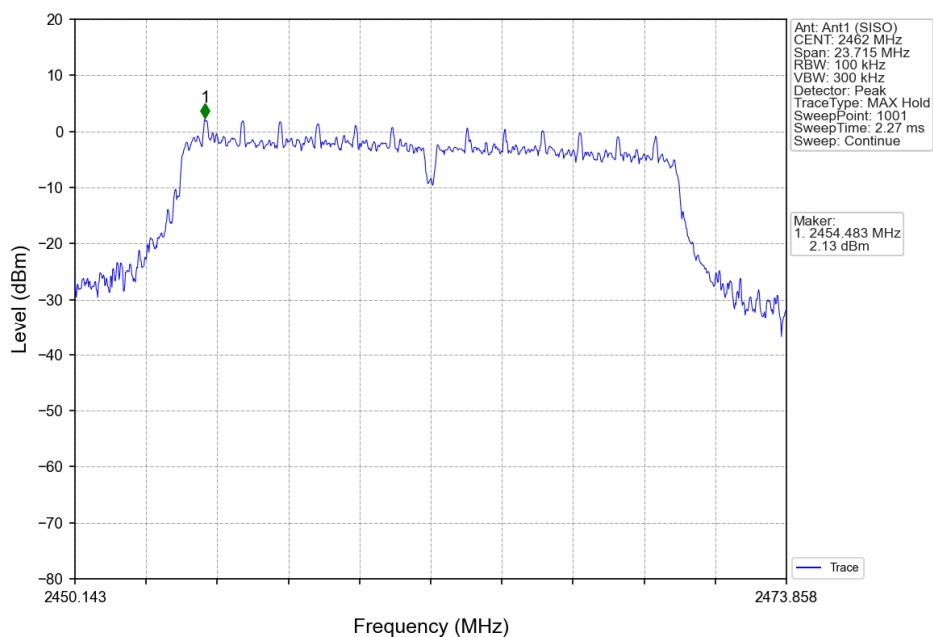
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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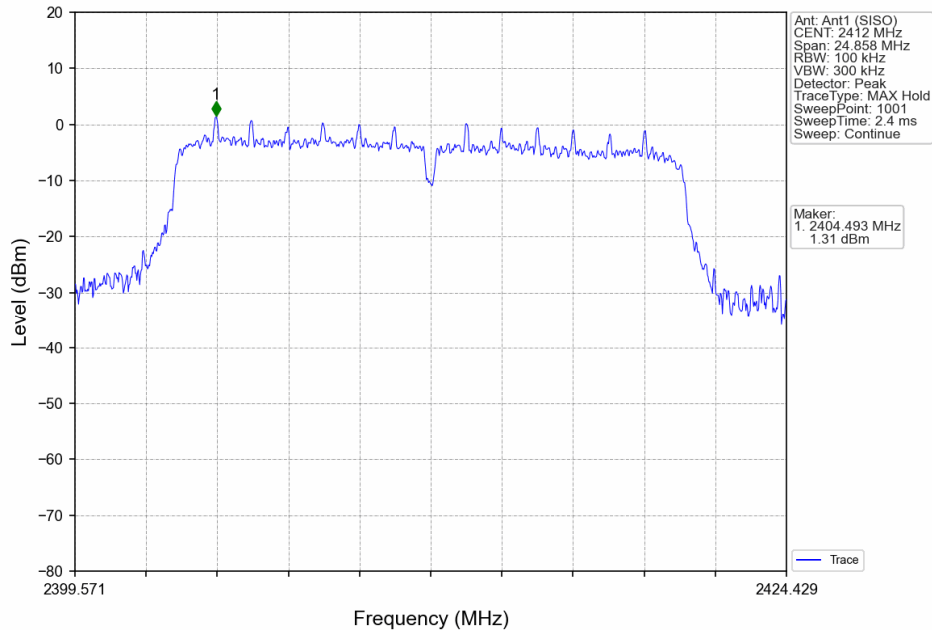
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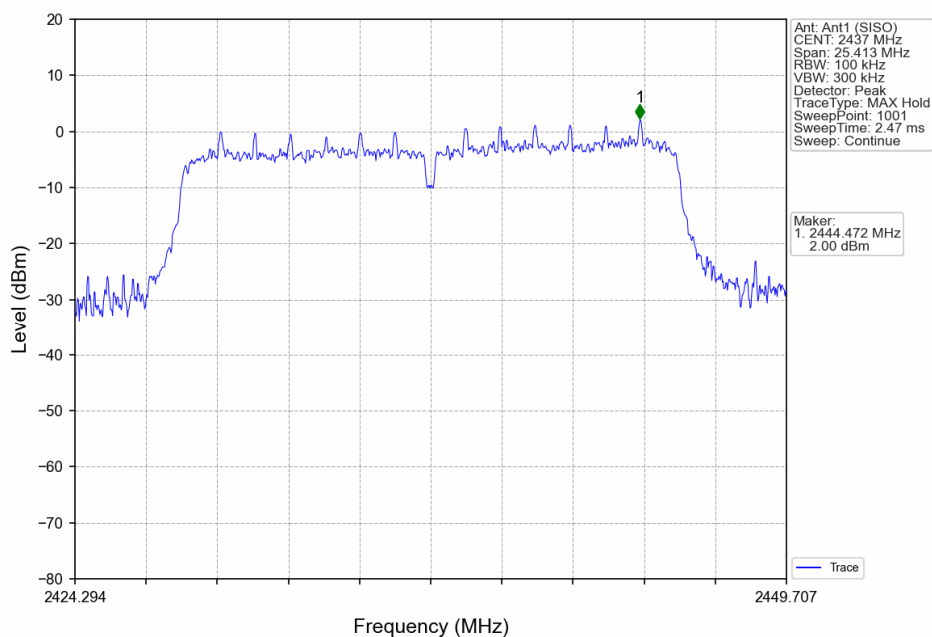
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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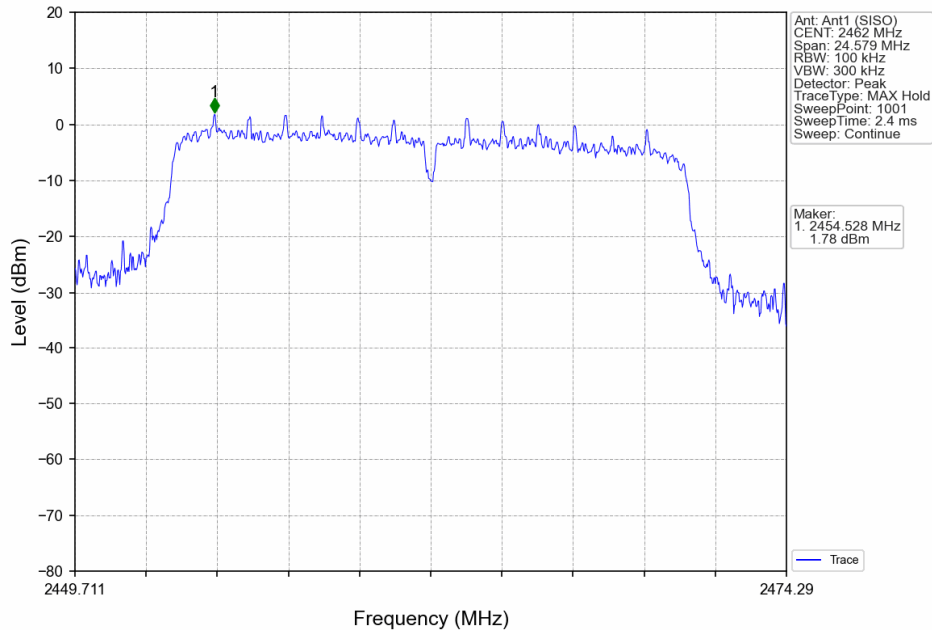
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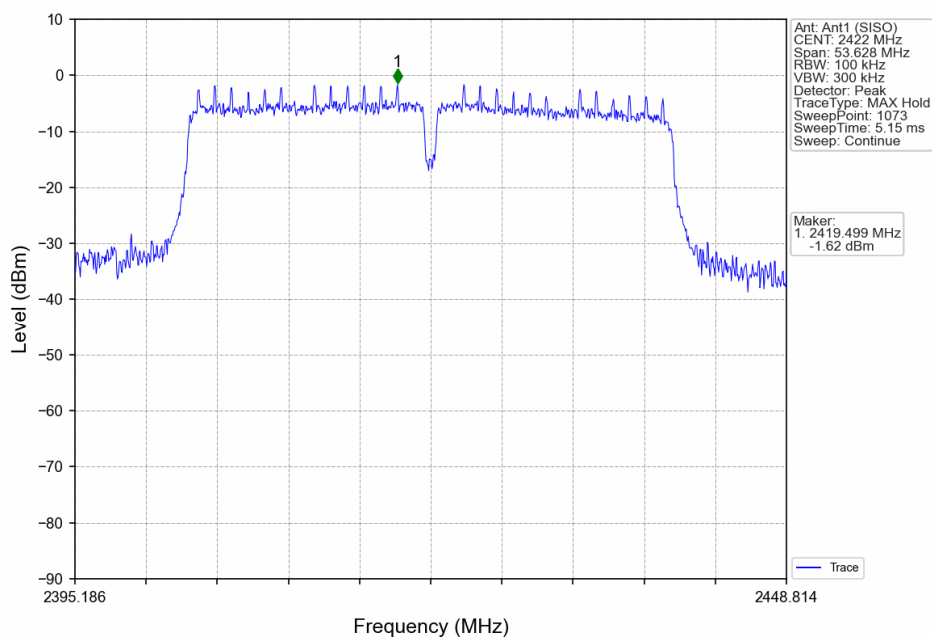
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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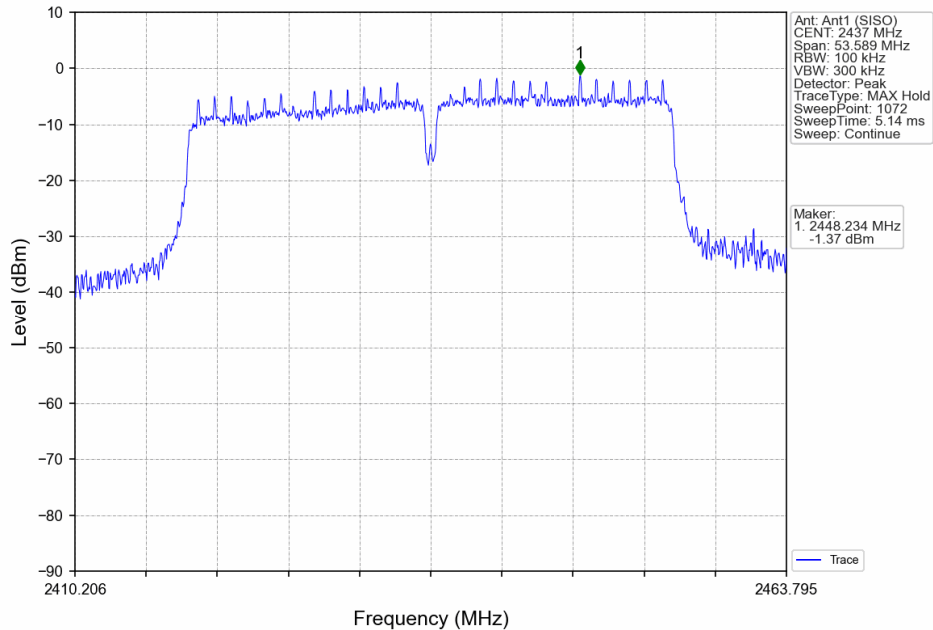
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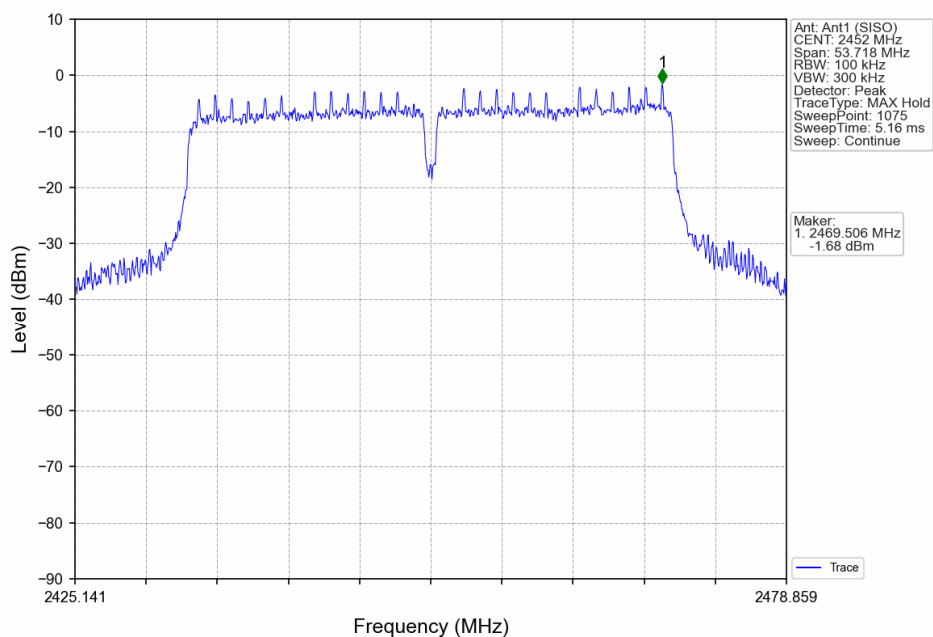
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.57	-15.43	Pass
		2437	1	4.57	-15.43	Pass
		2462	1	4.57	-15.43	Pass
802.11g	SISO	2412	1	2.13	-17.87	Pass
		2437	1	2.13	-17.87	Pass
		2462	1	2.13	-17.87	Pass
802.11n (HT20)	SISO	2412	1	2.00	-18.00	Pass
		2437	1	2.00	-18.00	Pass
		2462	1	2.00	-18.00	Pass
802.11n (HT40)	SISO	2422	1	-1.37	-21.37	Pass
		2437	1	-1.37	-21.37	Pass
		2452	1	-1.37	-21.37	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

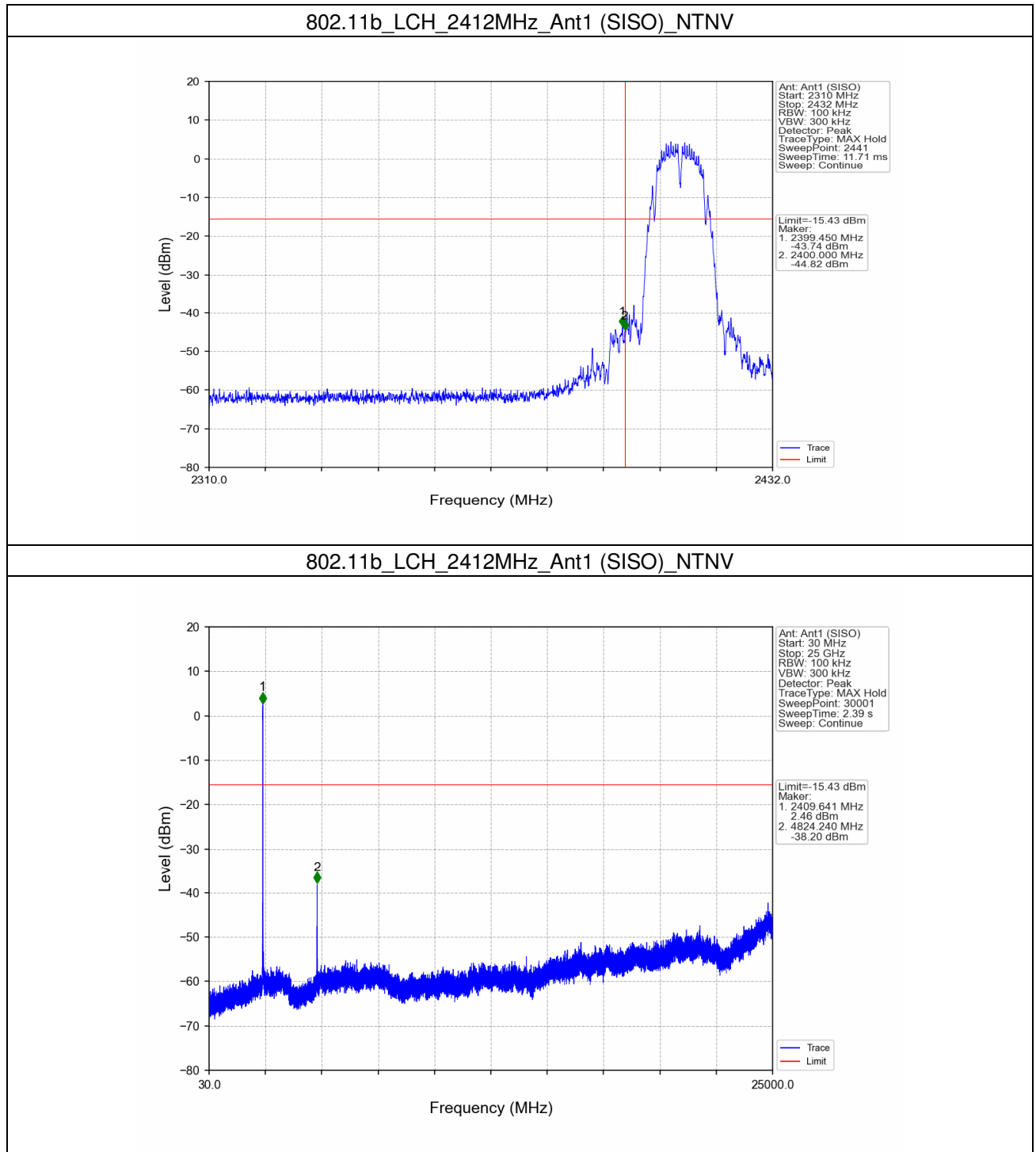


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5.2.2 Test Graph



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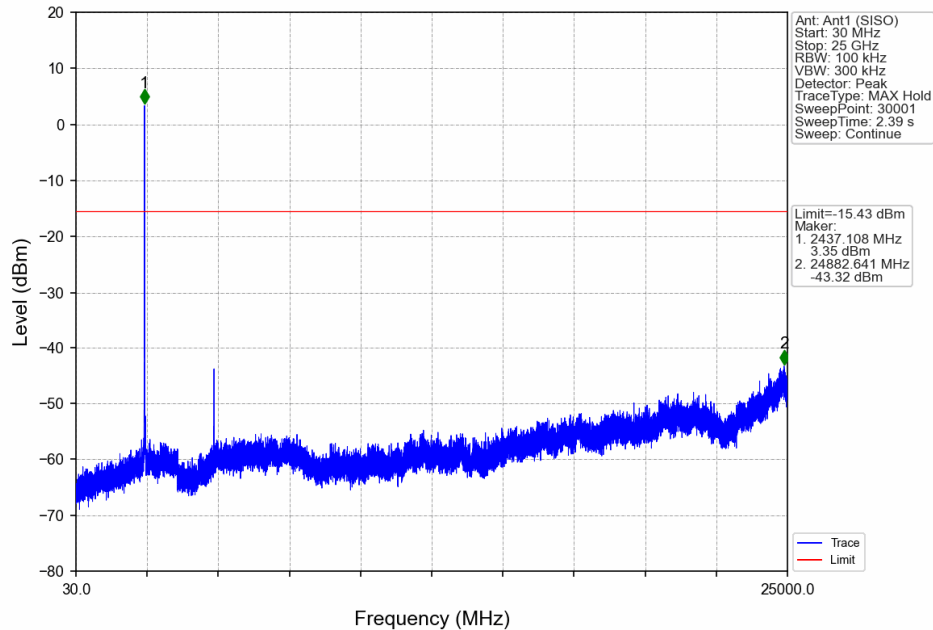
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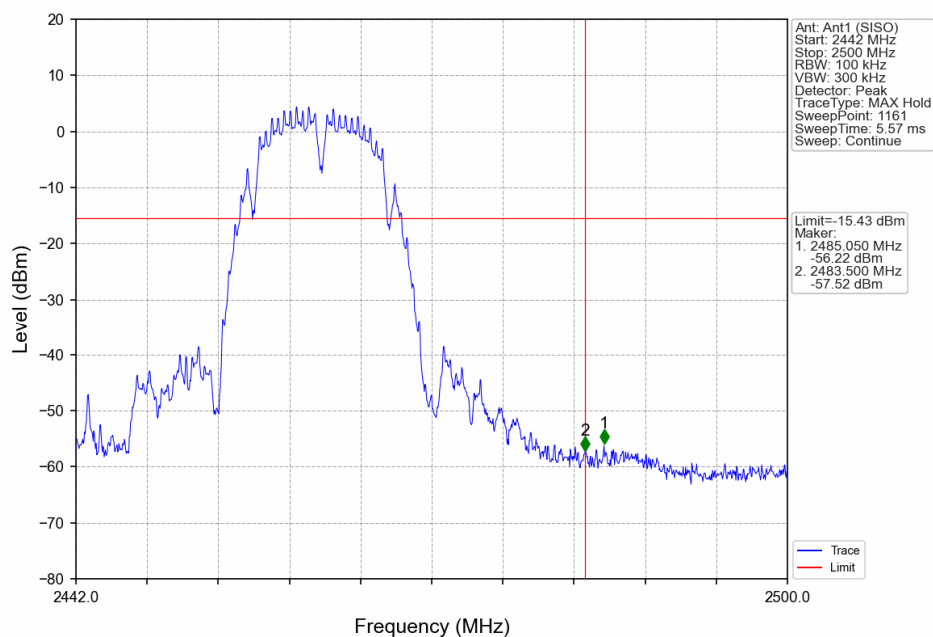
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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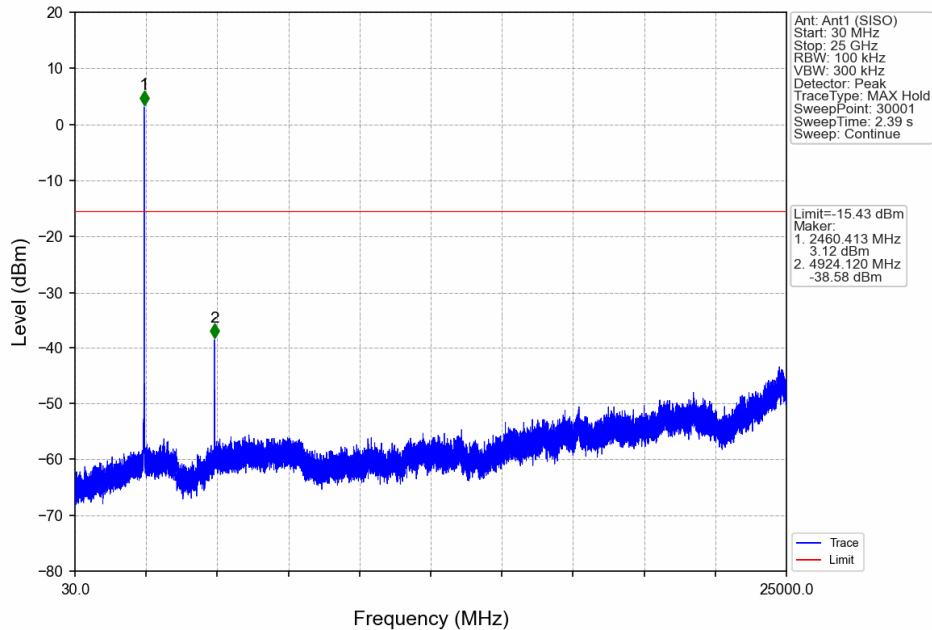
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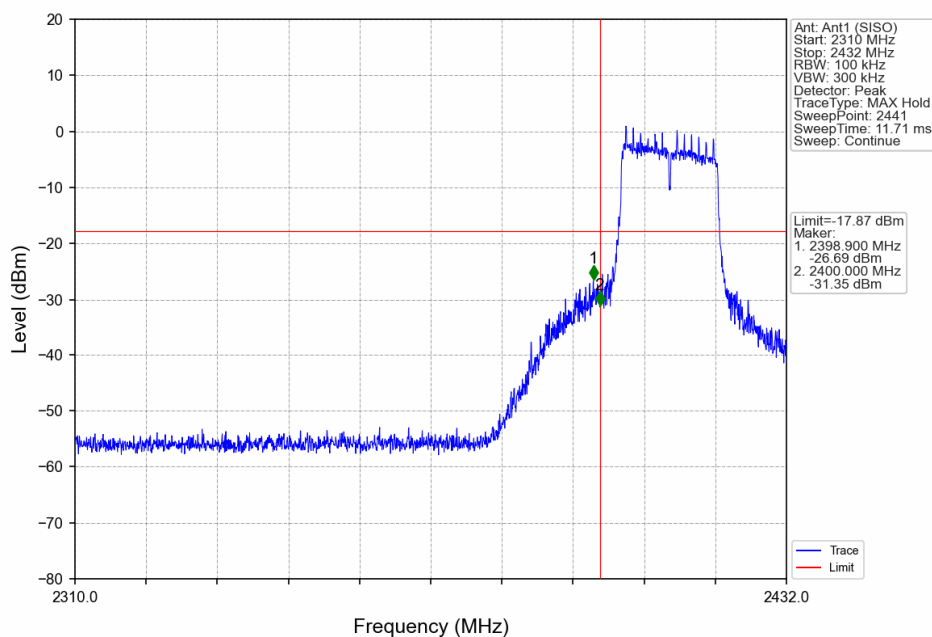
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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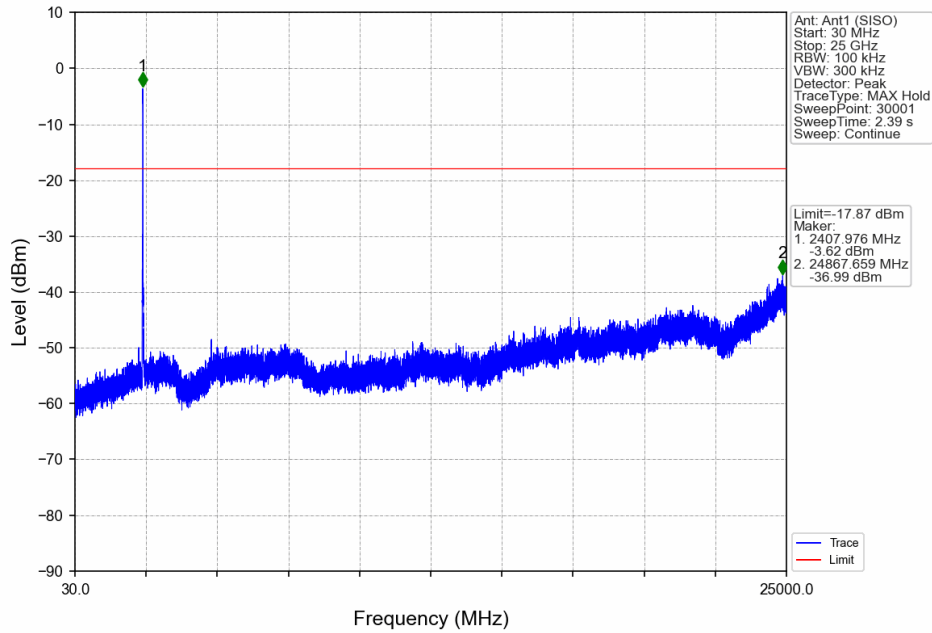
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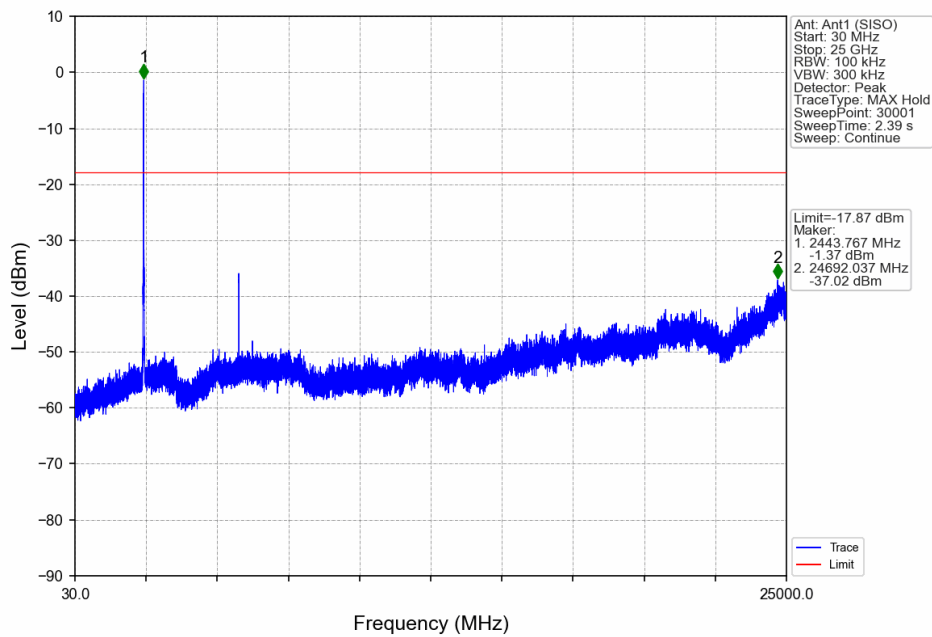
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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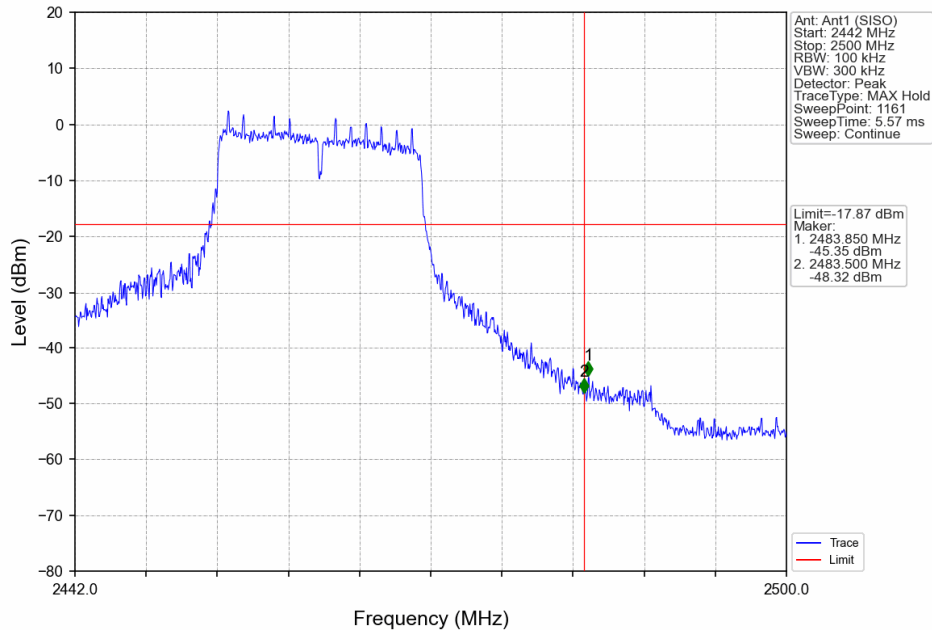
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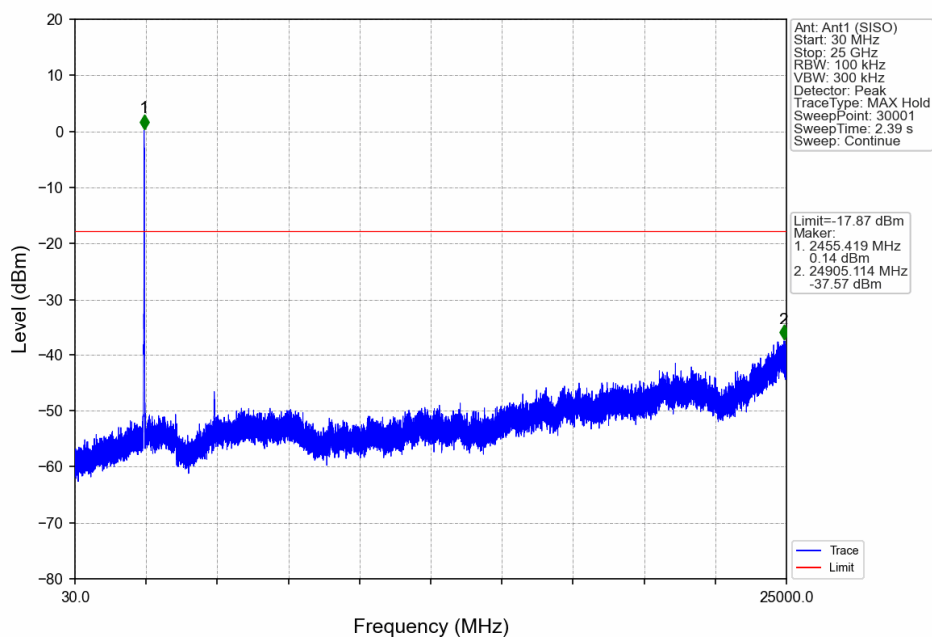
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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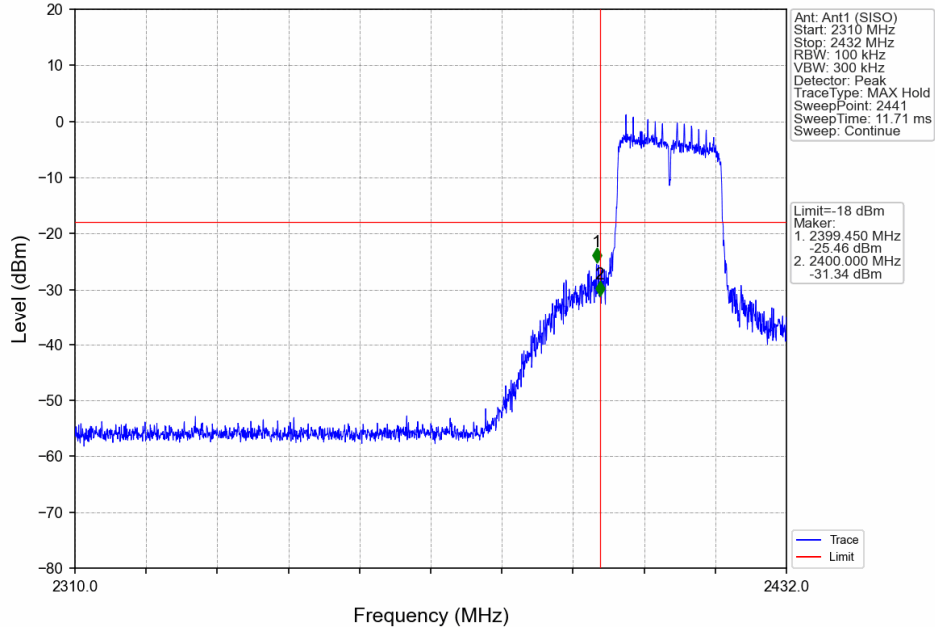
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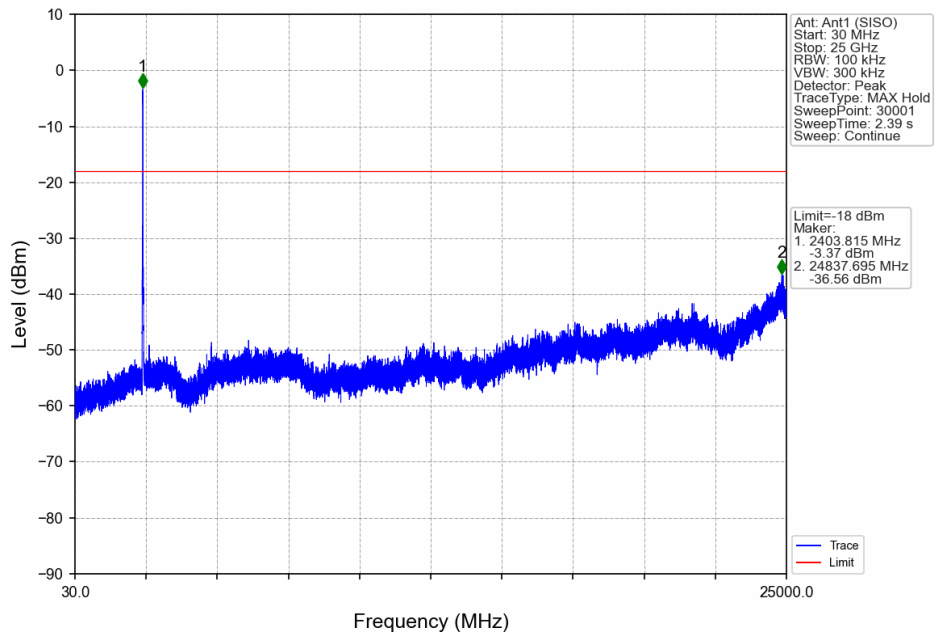
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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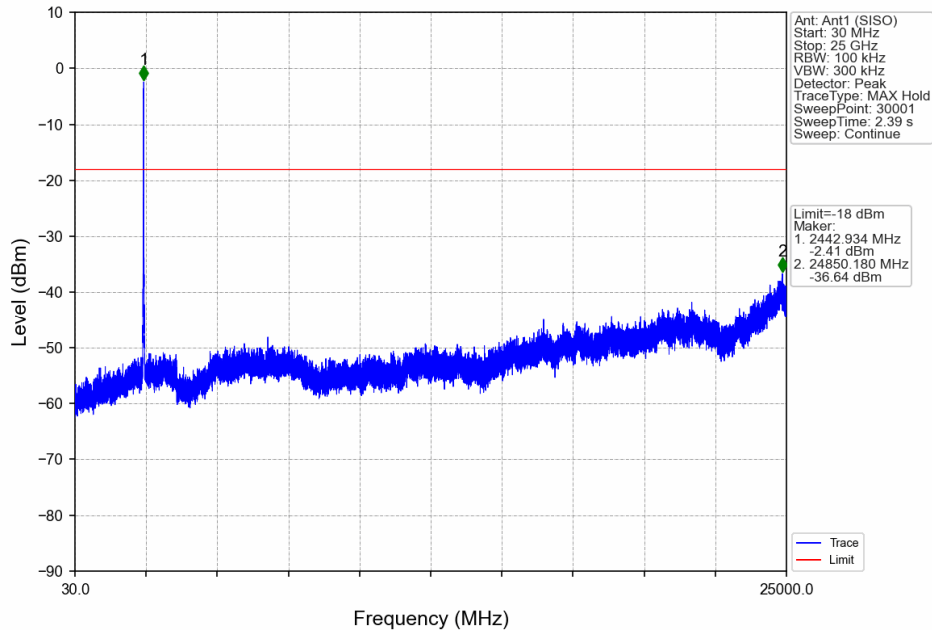
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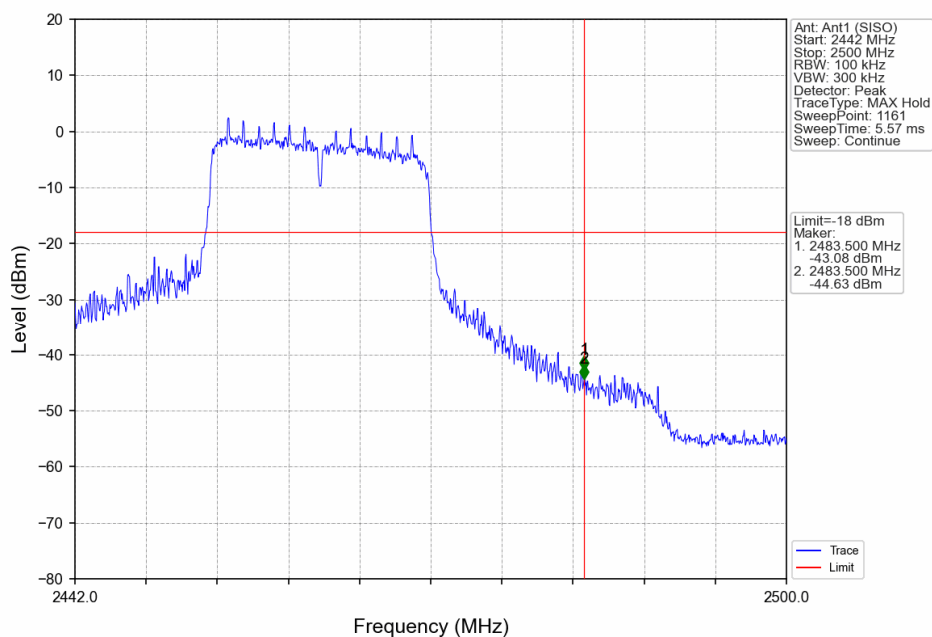
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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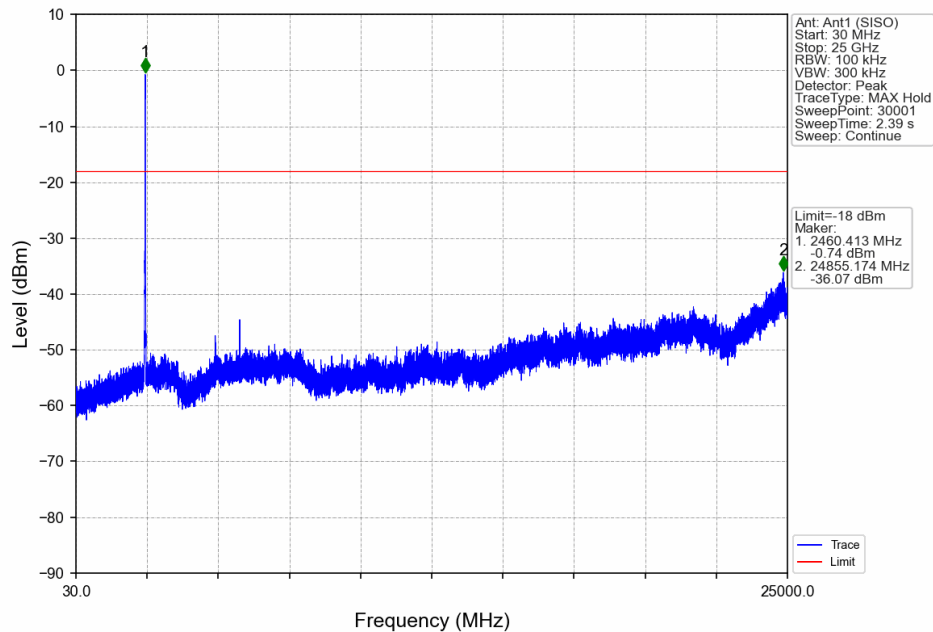
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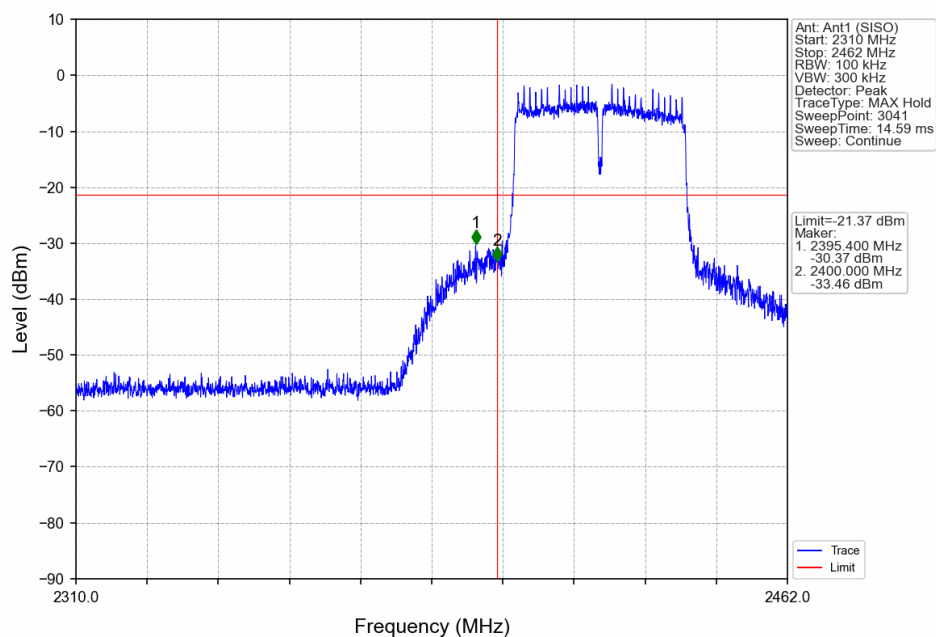
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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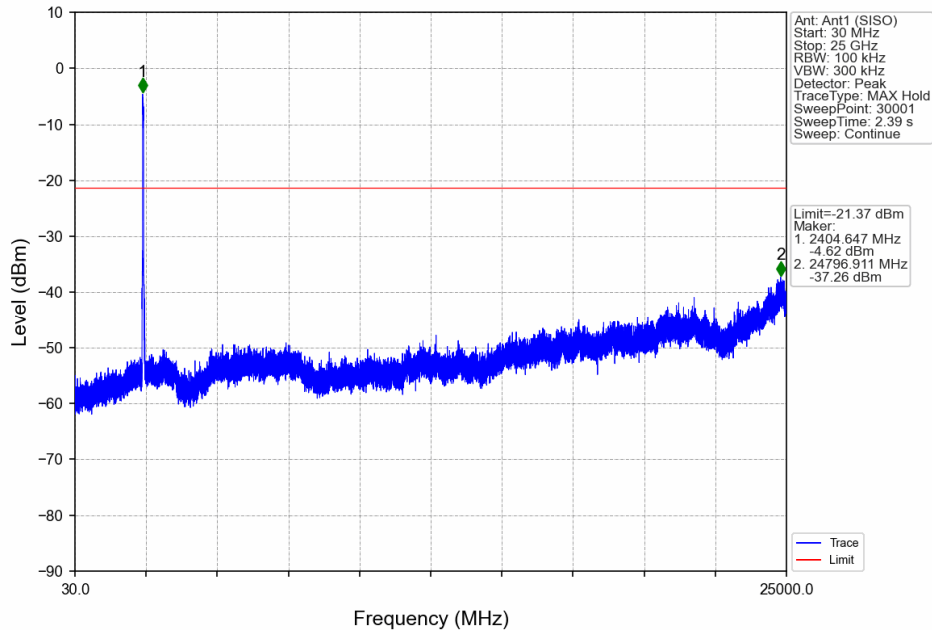
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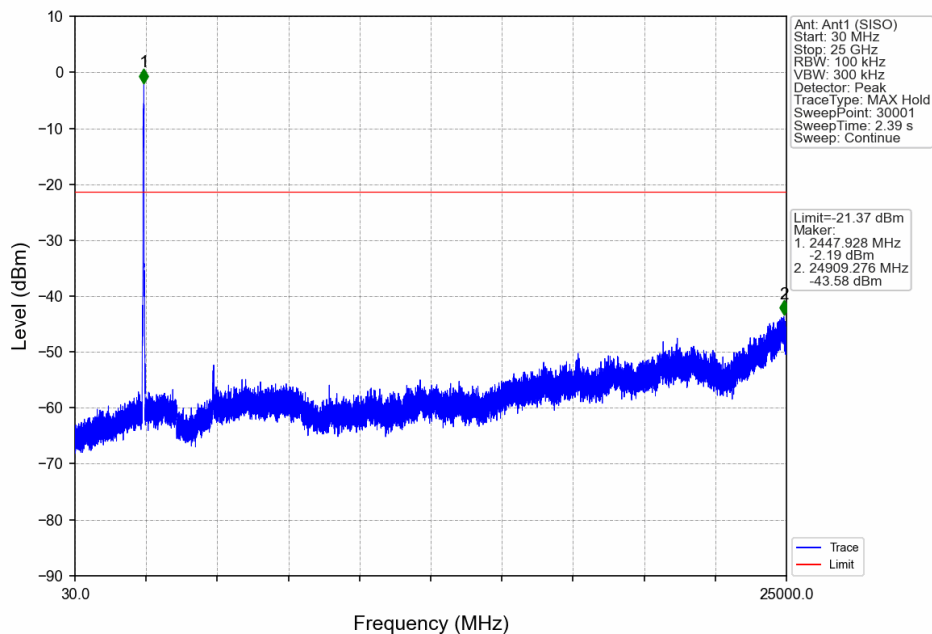
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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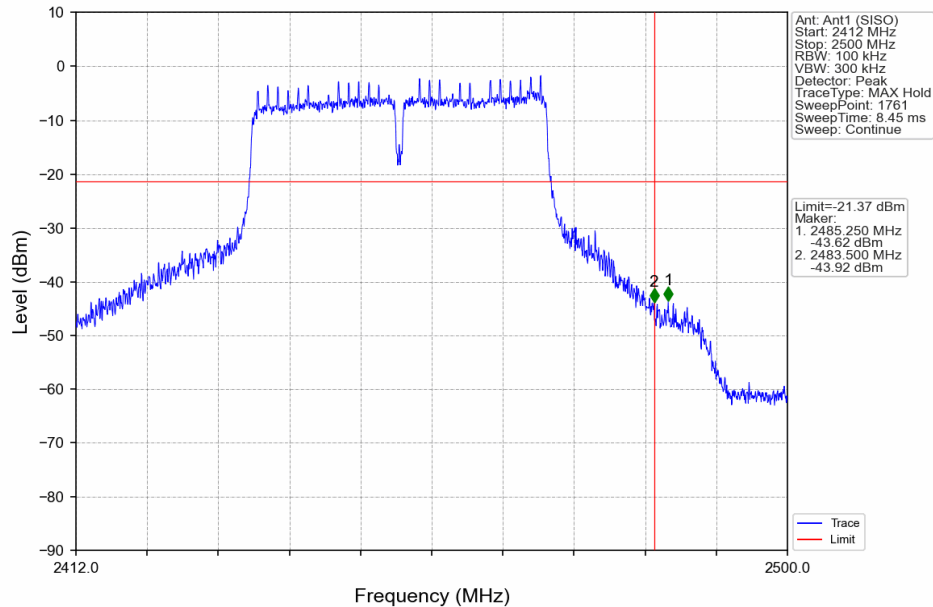
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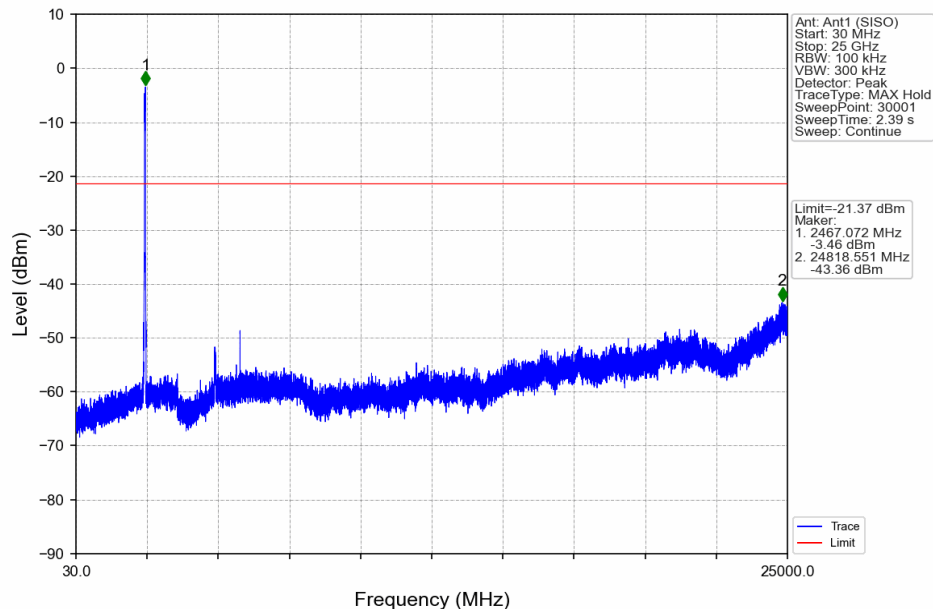
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