

ANNEX TEST DATA WIFI2.4G

FCC ID: 2BWIV-SY-F6-V

Applicant: Yile Plastics & Mould Technology(Jiashan) Co.,Ltd

Address: No. 208 Zhenguo Road, Jiashan County, Jiaxing City, Zhejiang Province, China

Manufacturer: Yile Plastics & Mould Technology(Jiashan) Co.,Ltd

Address: No. 208 Zhenguo Road, Jiashan County, Jiaxing City, Zhejiang Province, China

Product Name: Automatic pet feeder

Trade Mark: N/A

Model Number: SY-F6-V, SY-F6-E, SY-F6-T

Date of Receipt: May 20, 2026

Test Date: May 20, 2026 - Jun. 02, 2026

Date of Report: Jun. 02, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 C 15.247
ANSI C63.10-2020+Cor.1-2023

Test Result: Pass

Report Number: DLE-260520007R

1. Duty Cycle

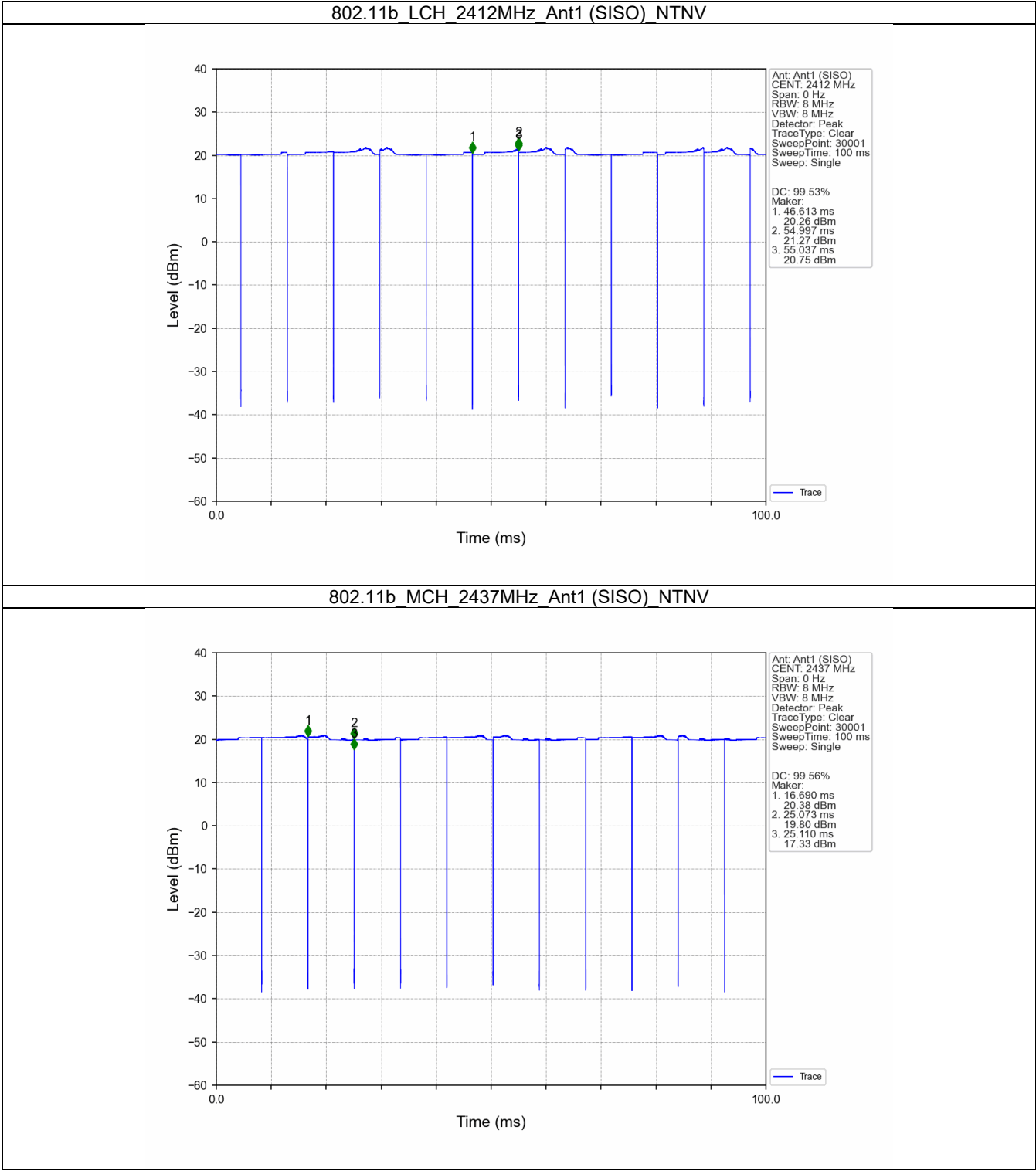
1.1 Test Result

1.1.1 Ant1

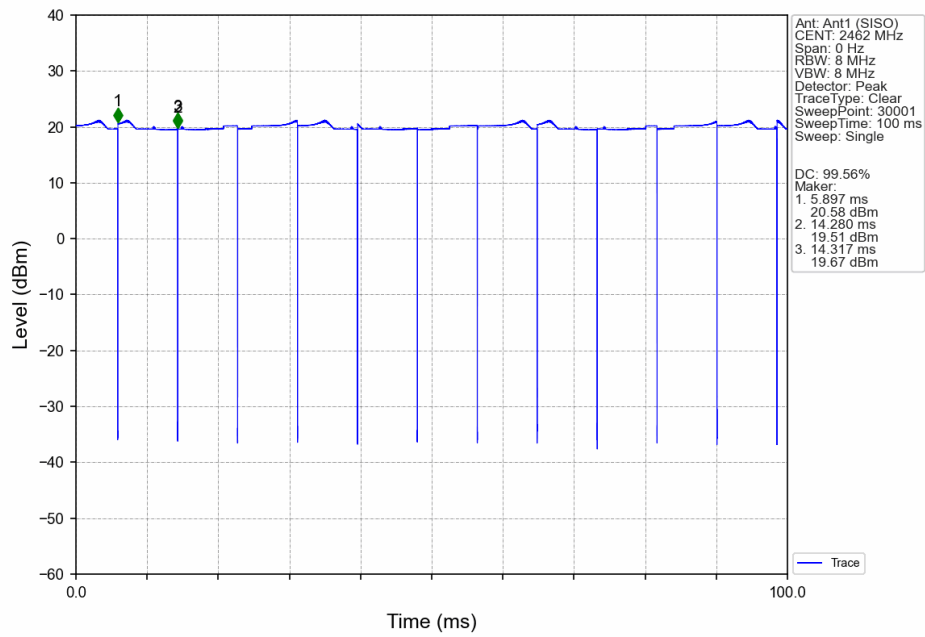
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.384	8.424	99.53	0.02	0.04
		2437	8.383	8.420	99.56	0.02	0.00
		2462	8.383	8.420	99.56	0.02	0.00
802.11g	SISO	2412	1.394	1.436	97.08	0.13	0.00
		2437	1.394	1.436	97.08	0.13	0.00
		2462	1.393	1.436	97.01	0.13	0.03
802.11n (HT20)	SISO	2412	1.302	1.345	96.80	0.14	0.00
		2437	1.302	1.344	96.88	0.14	0.00
		2462	1.302	1.345	96.80	0.14	0.03
802.11n (HT40)	SISO	2422	0.650	0.693	93.80	0.28	0.06
		2437	0.650	0.692	93.93	0.27	0.03
		2452	0.650	0.692	93.93	0.27	0.00

1.2 Test Graph

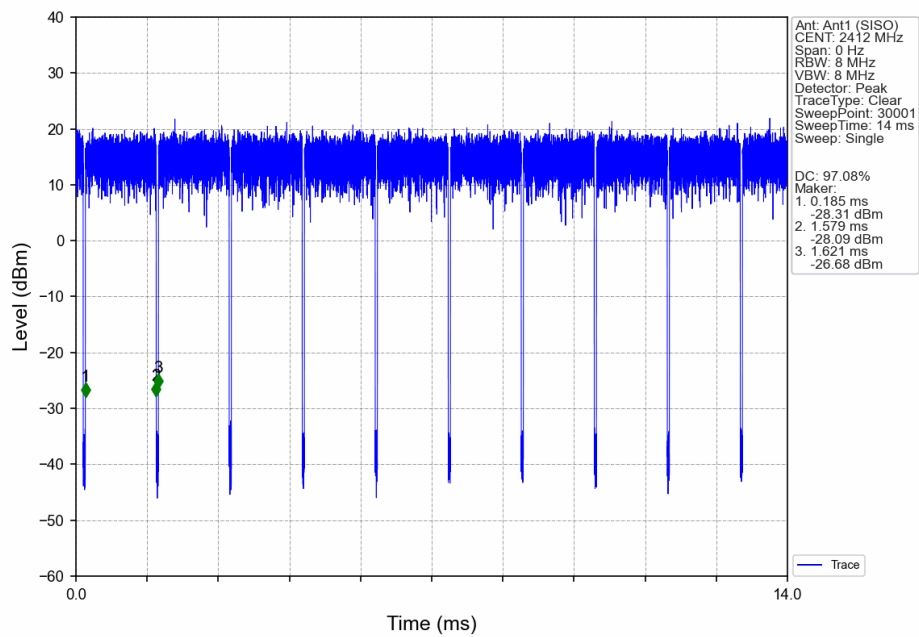
1.2.1 Ant1



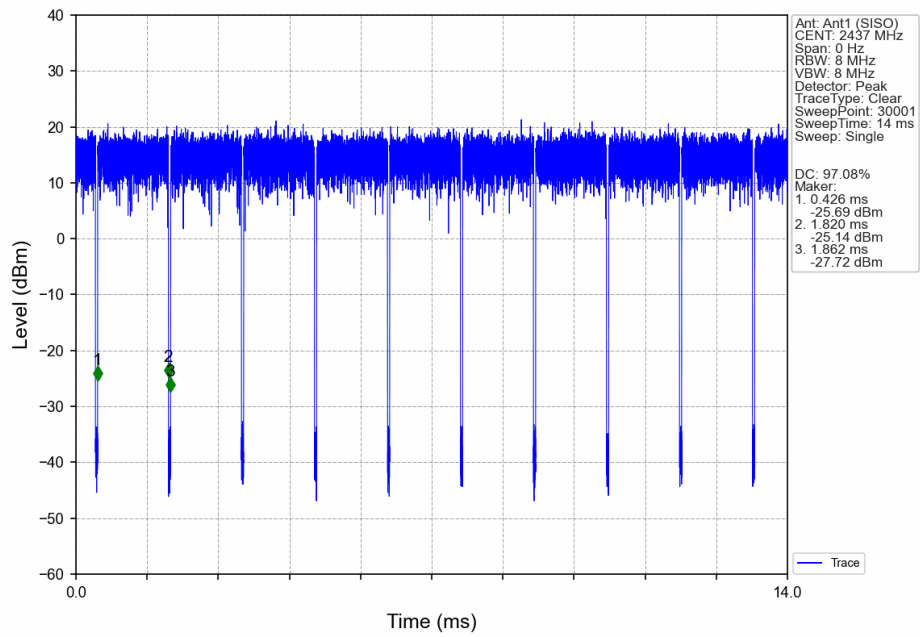
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



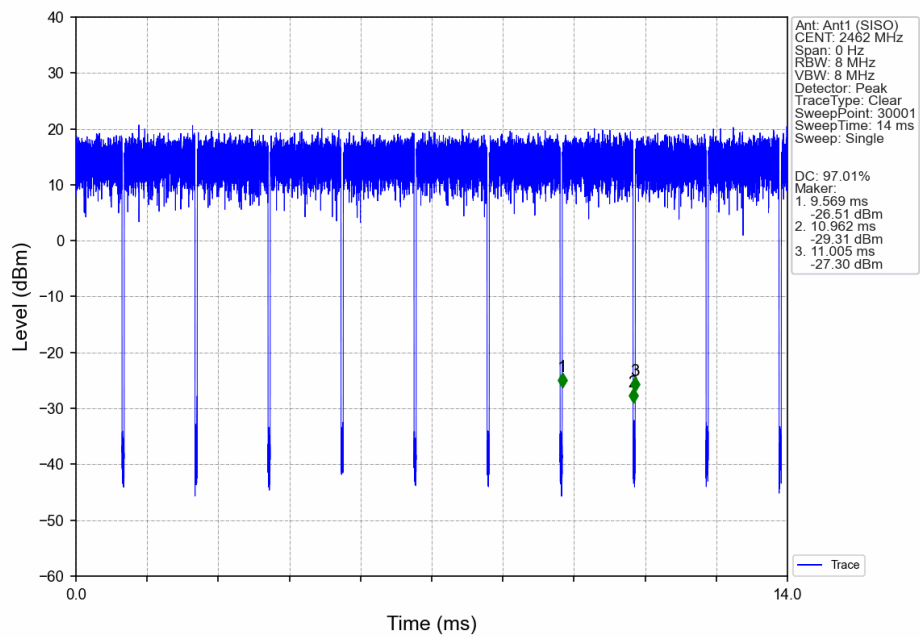
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



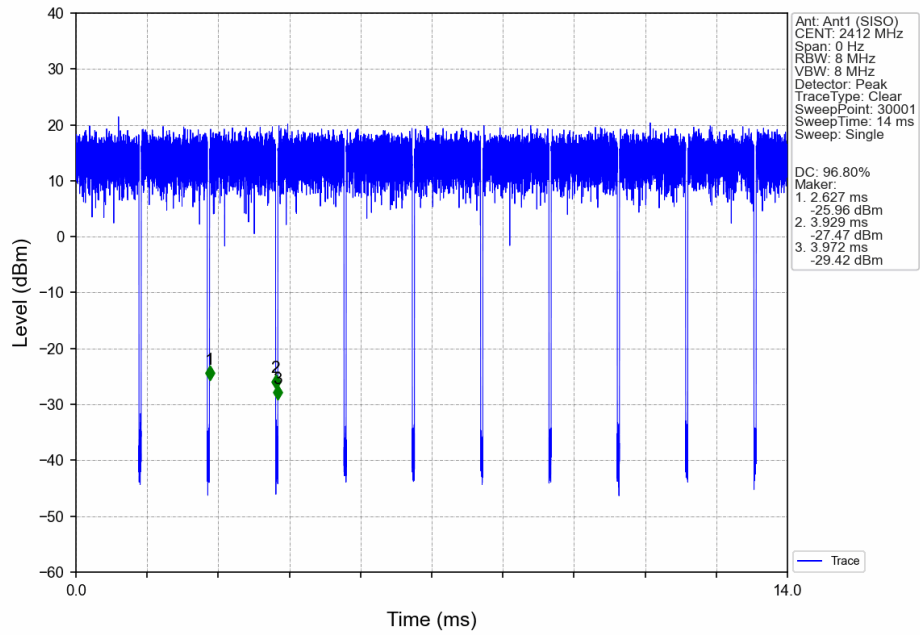
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



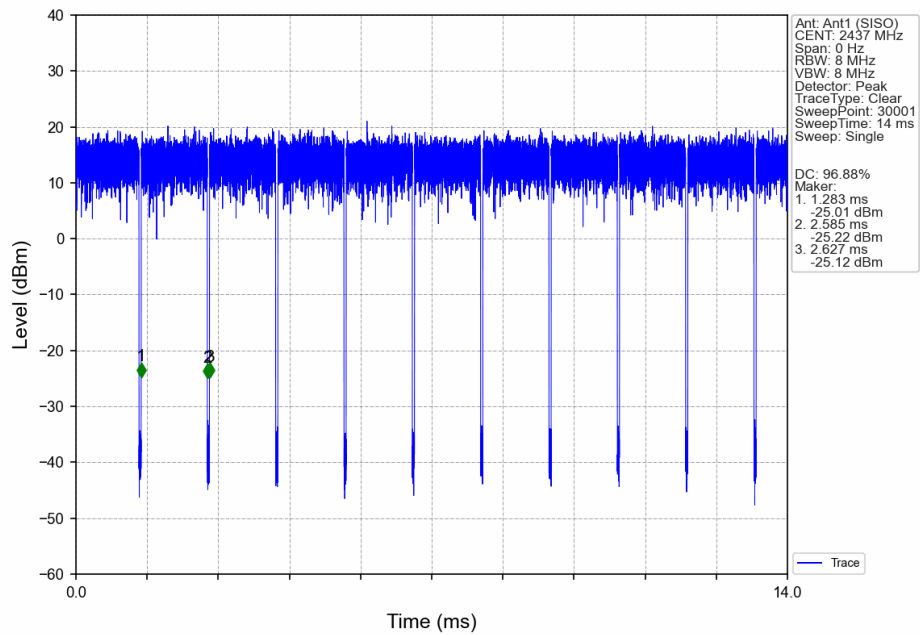
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



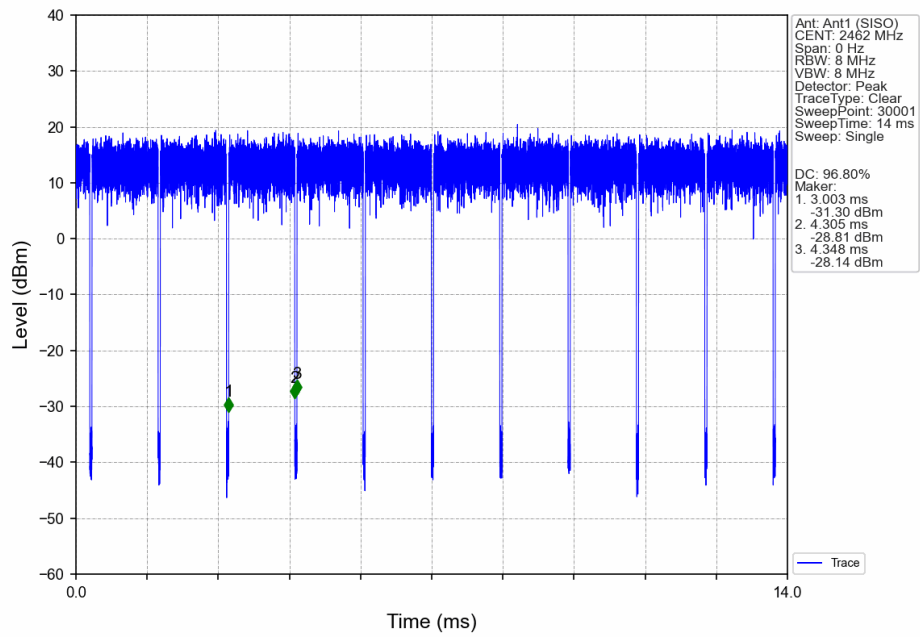
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



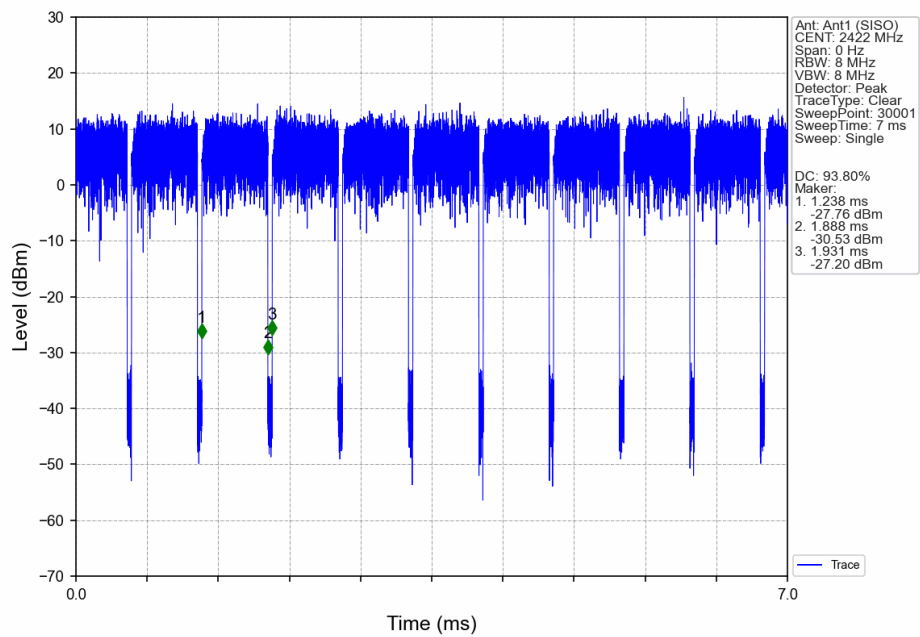
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



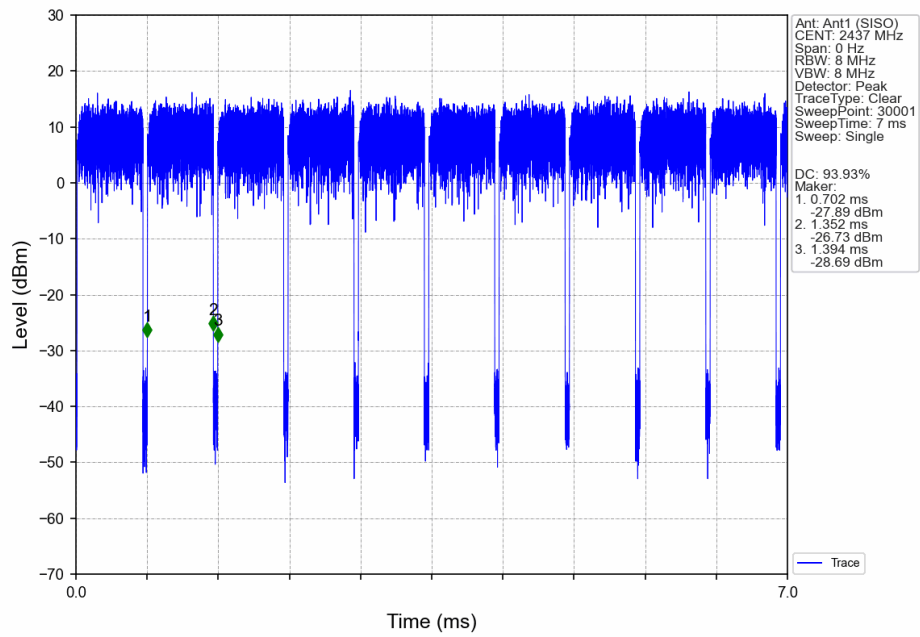
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



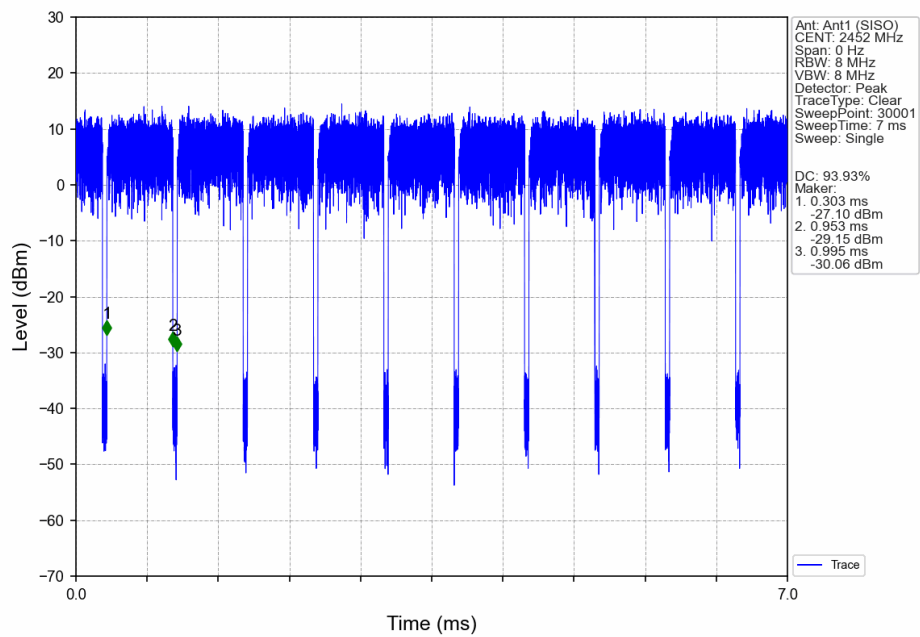
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

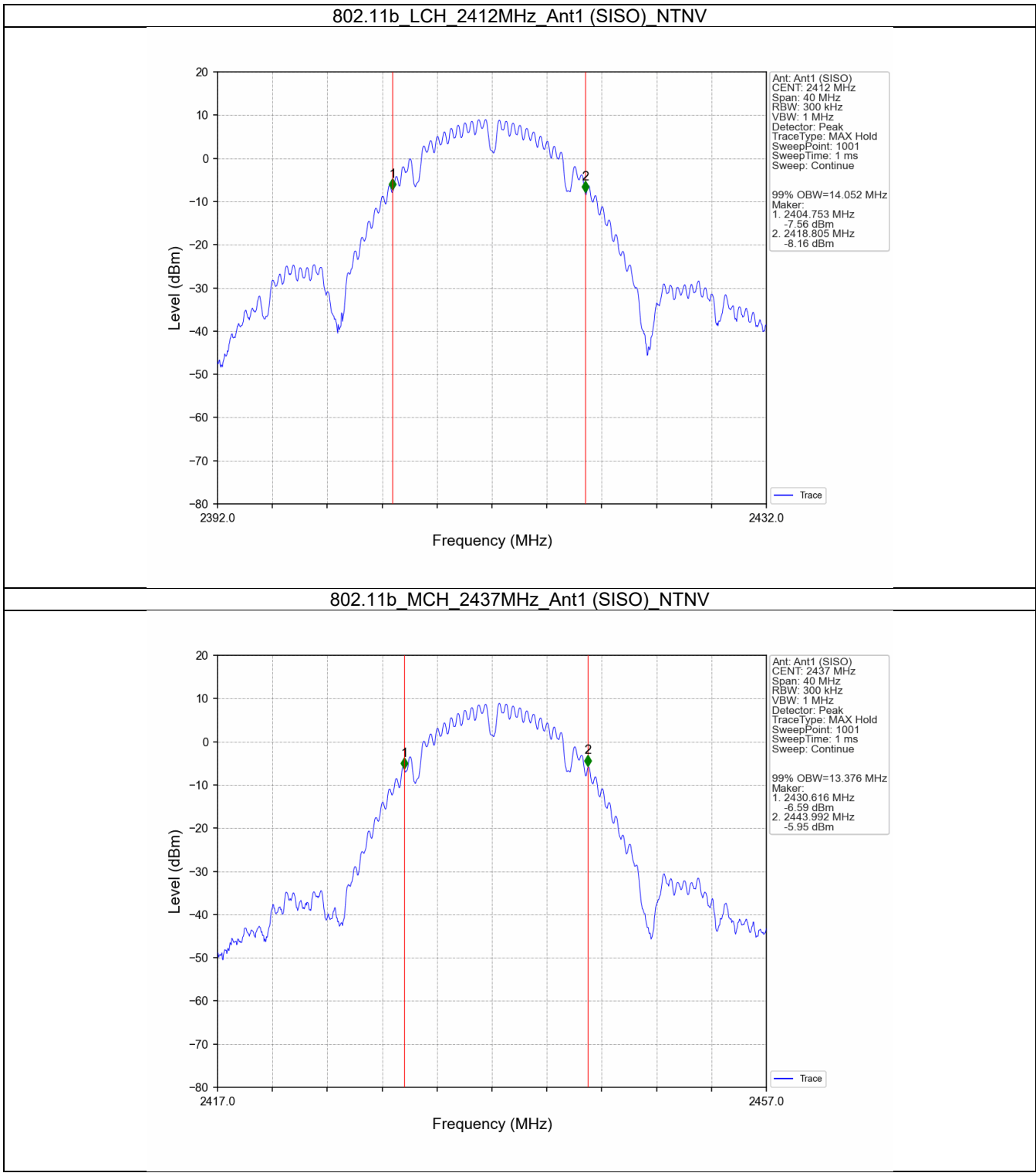
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.052	/	Pass
		2437	1	13.376	/	Pass
		2462	1	14.342	/	Pass
802.11g	SISO	2412	1	17.129	/	Pass
		2437	1	16.558	/	Pass
		2462	1	17.210	/	Pass
802.11n (HT20)	SISO	2412	1	17.967	/	Pass
		2437	1	17.644	/	Pass
		2462	1	18.076	/	Pass
802.11n (HT40)	SISO	2422	1	37.215	/	Pass
		2437	1	35.855	/	Pass
		2452	1	36.579	/	Pass

2.1.2 6dB BW

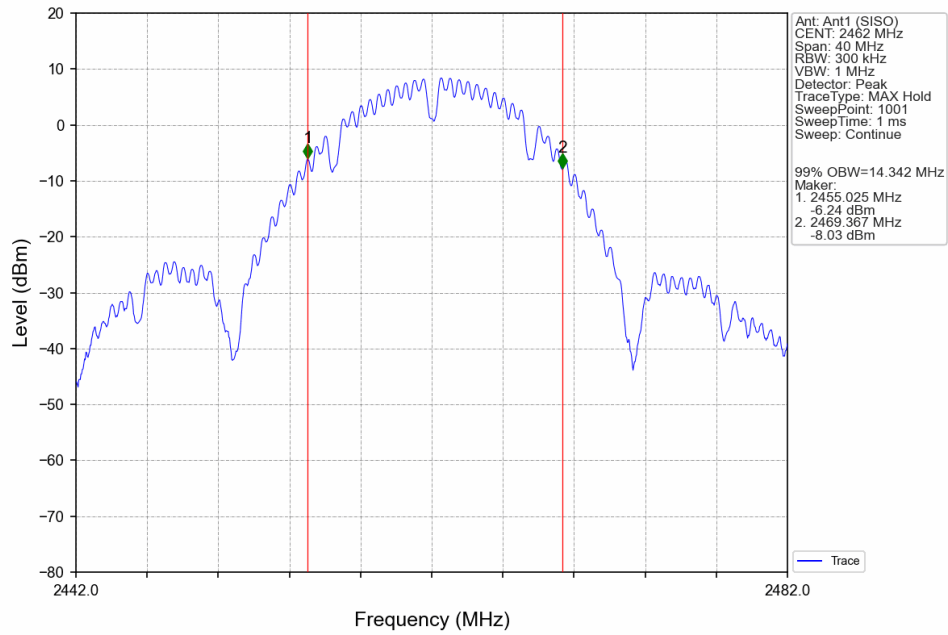
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.735	≥ 0.5	Pass
		2437	1	8.636	≥ 0.5	Pass
		2462	1	9.169	≥ 0.5	Pass
802.11g	SISO	2412	1	16.081	≥ 0.5	Pass
		2437	1	15.088	≥ 0.5	Pass
		2462	1	16.430	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.347	≥ 0.5	Pass
		2437	1	16.530	≥ 0.5	Pass
		2462	1	17.569	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.793	≥ 0.5	Pass
		2437	1	26.413	≥ 0.5	Pass
		2452	1	34.741	≥ 0.5	Pass

2.2 Test Graph

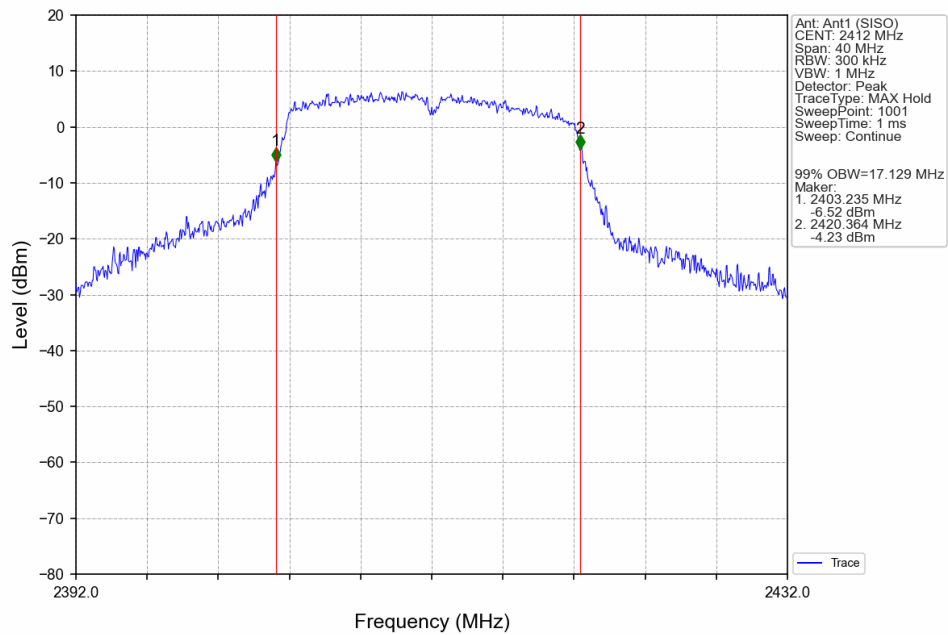
2.2.1 OBW



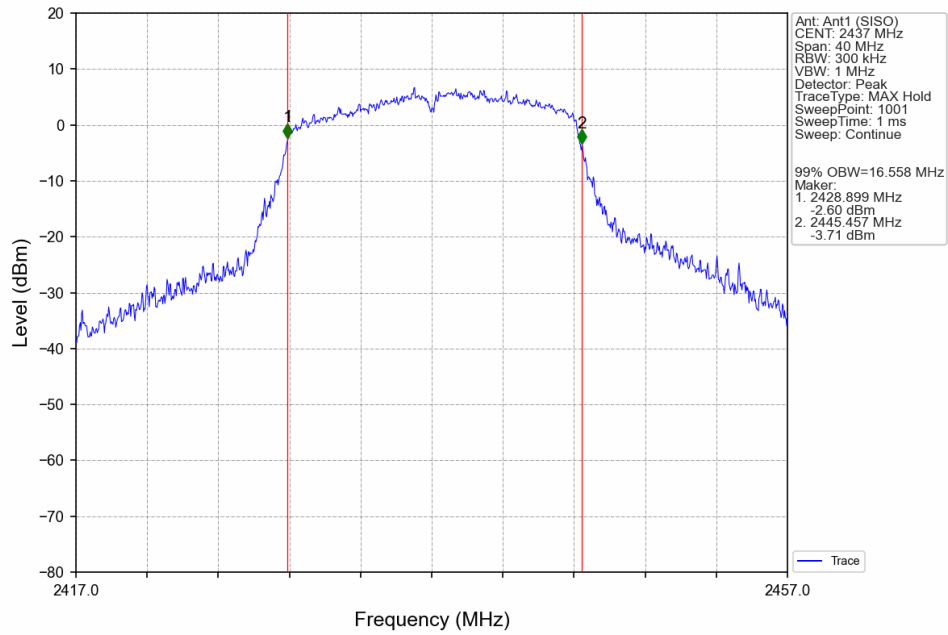
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



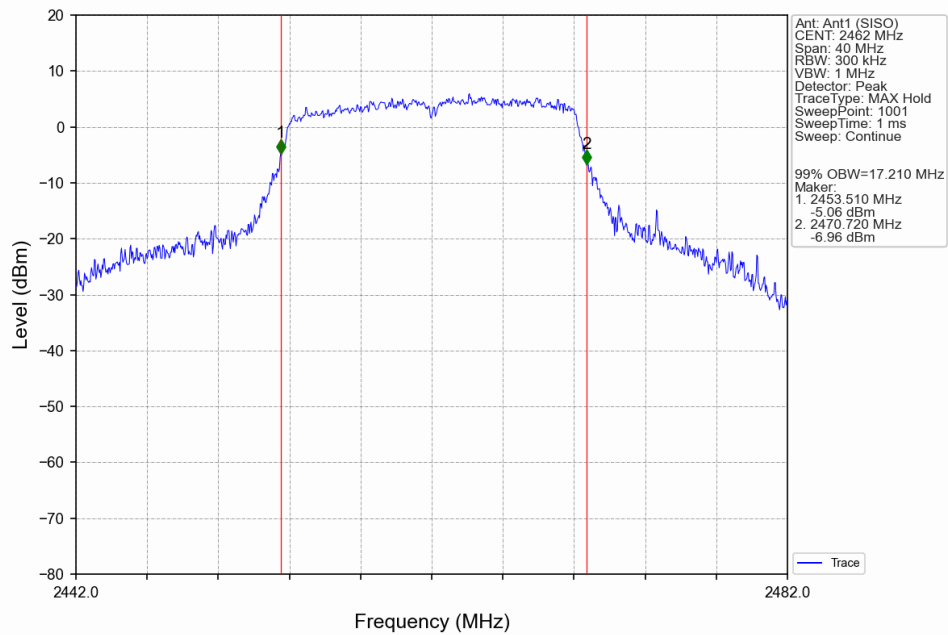
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



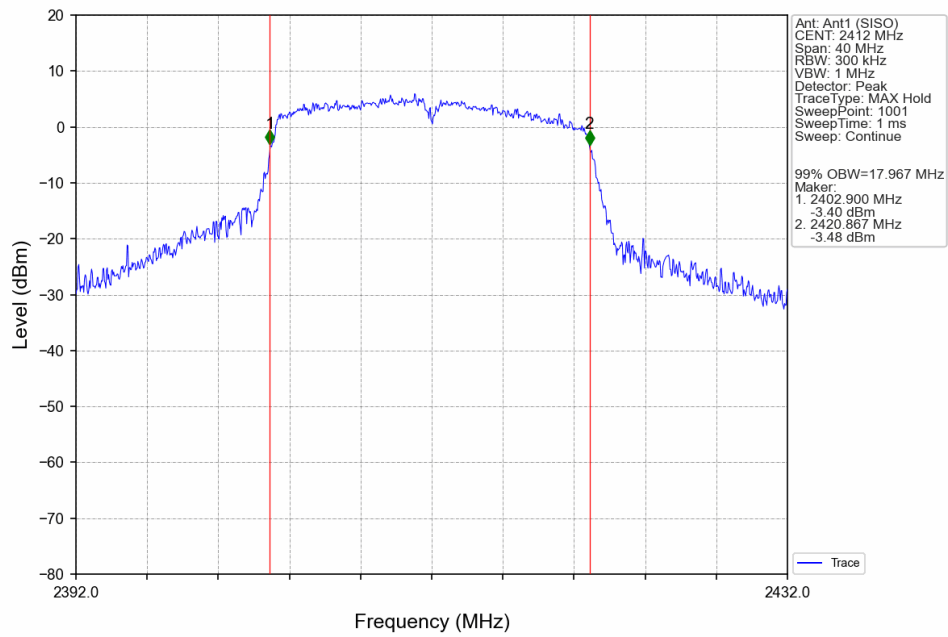
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



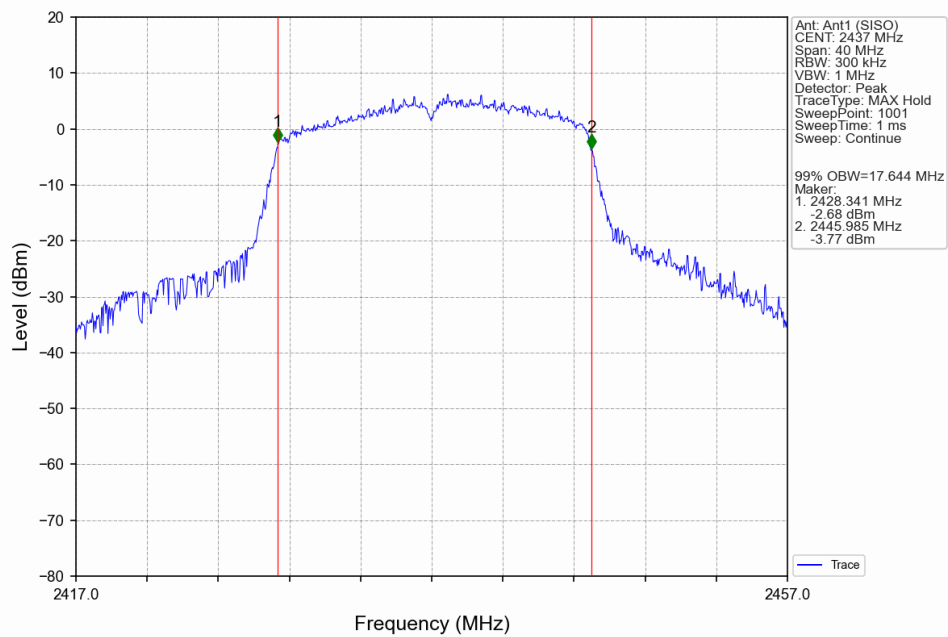
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



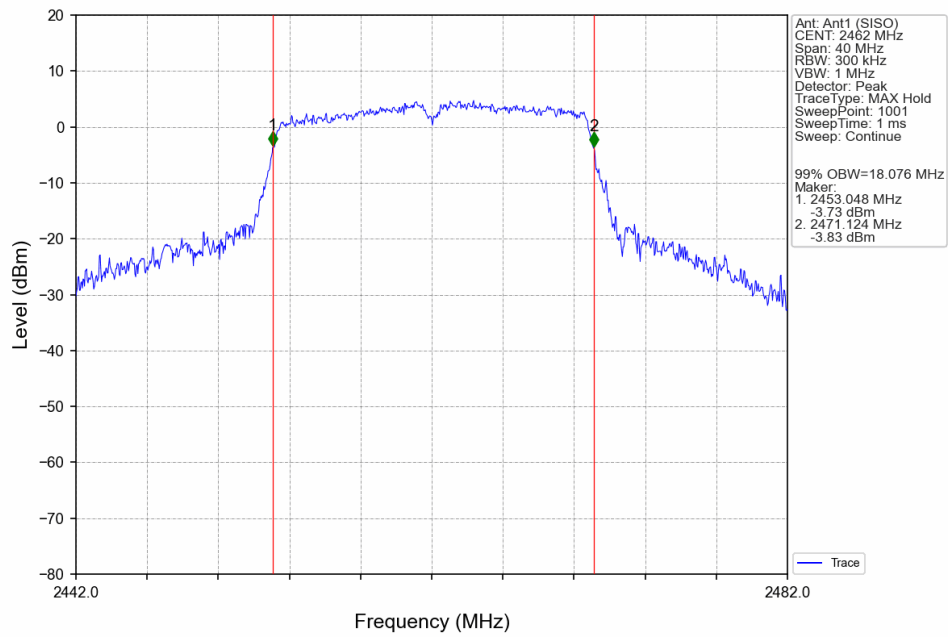
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



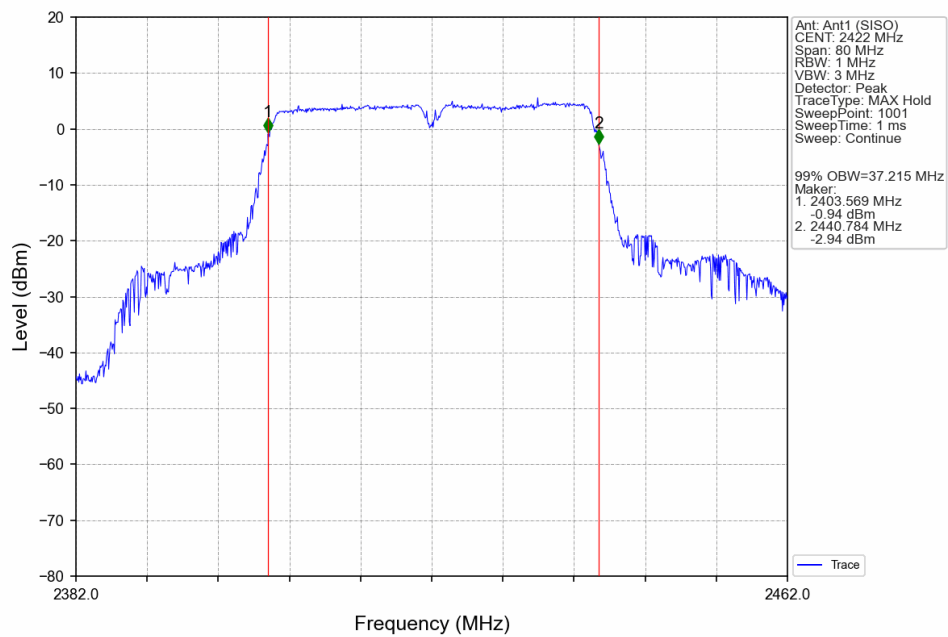
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



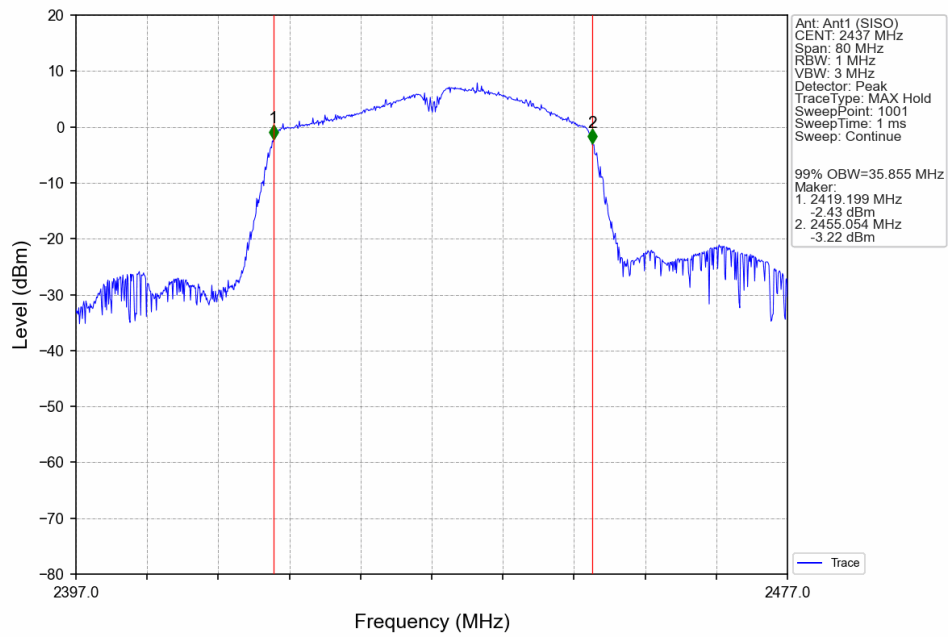
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



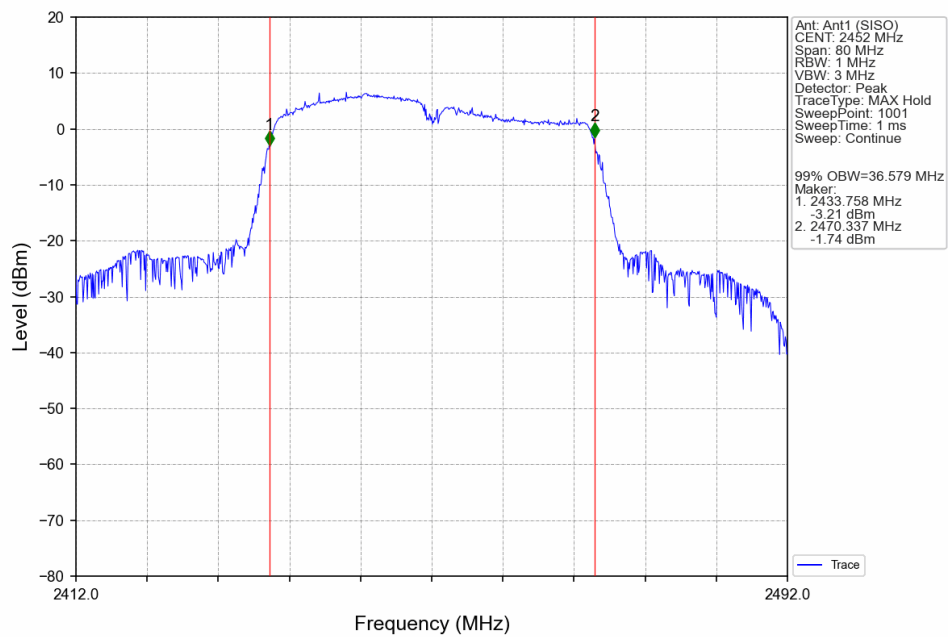
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



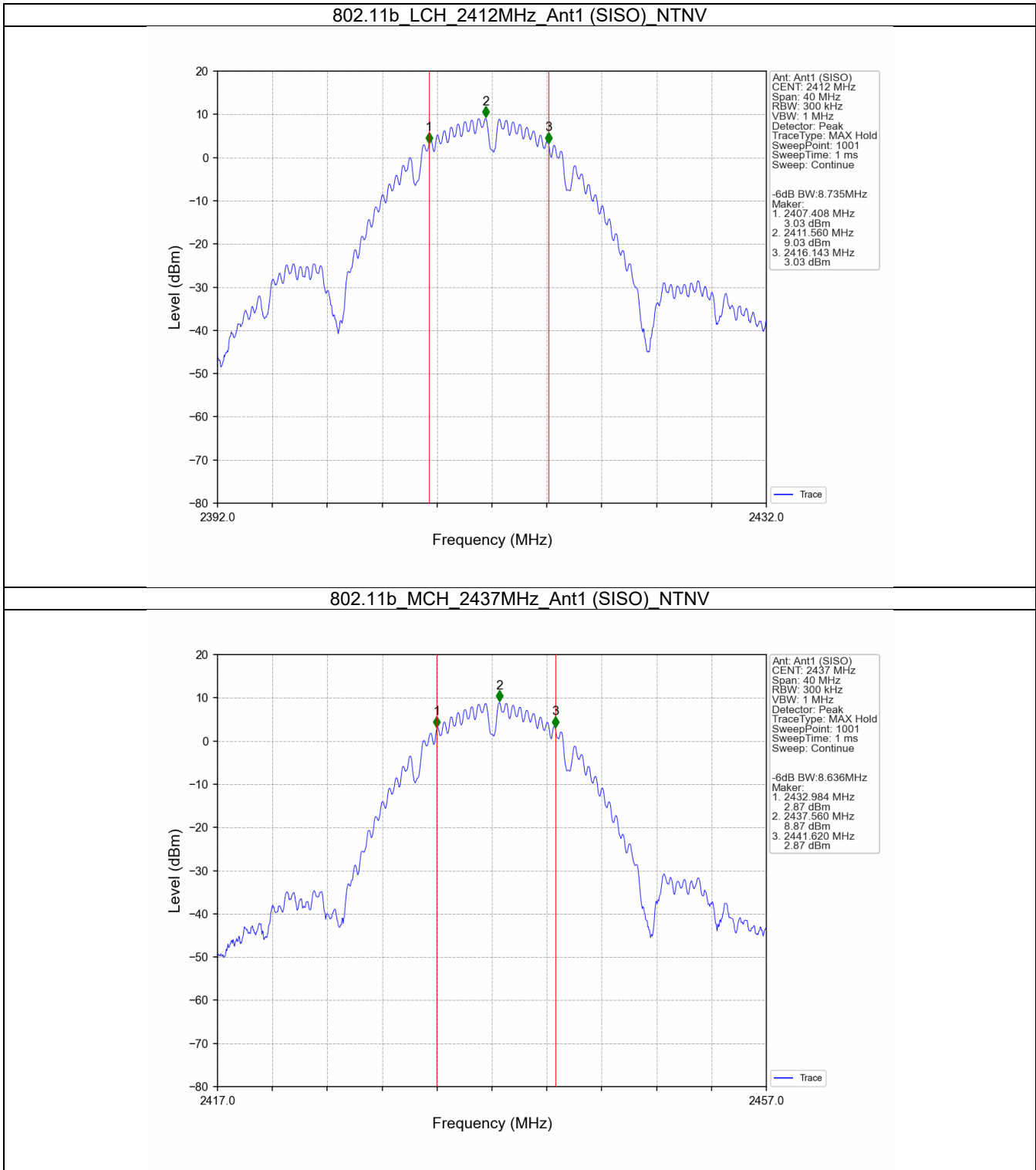
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



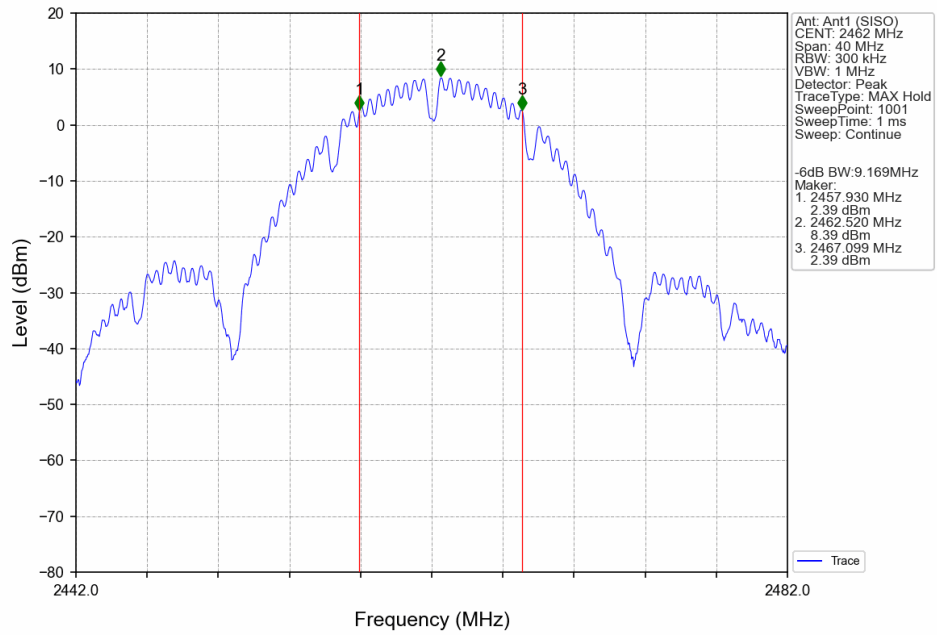
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



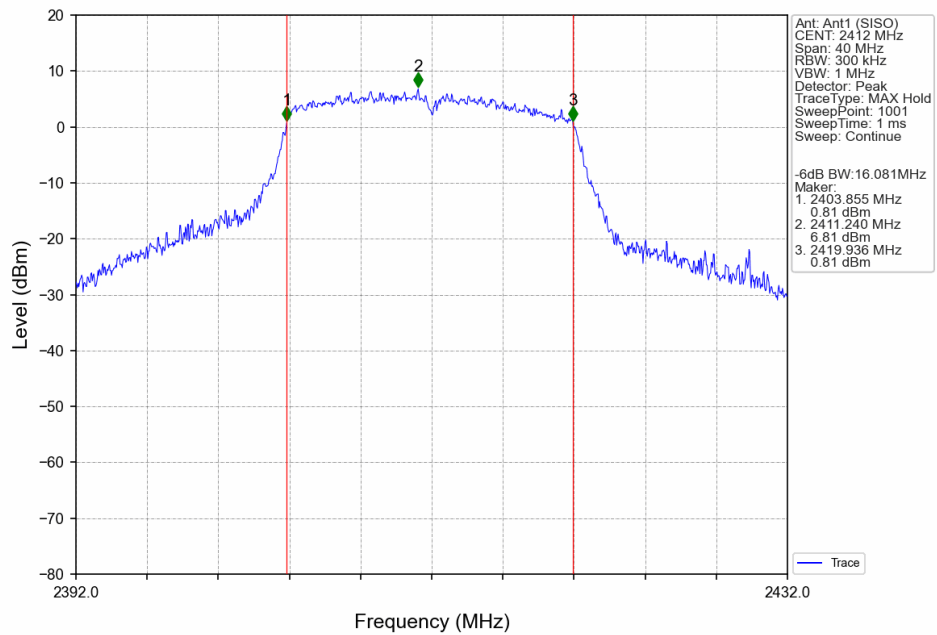
2.2.2 6dB BW



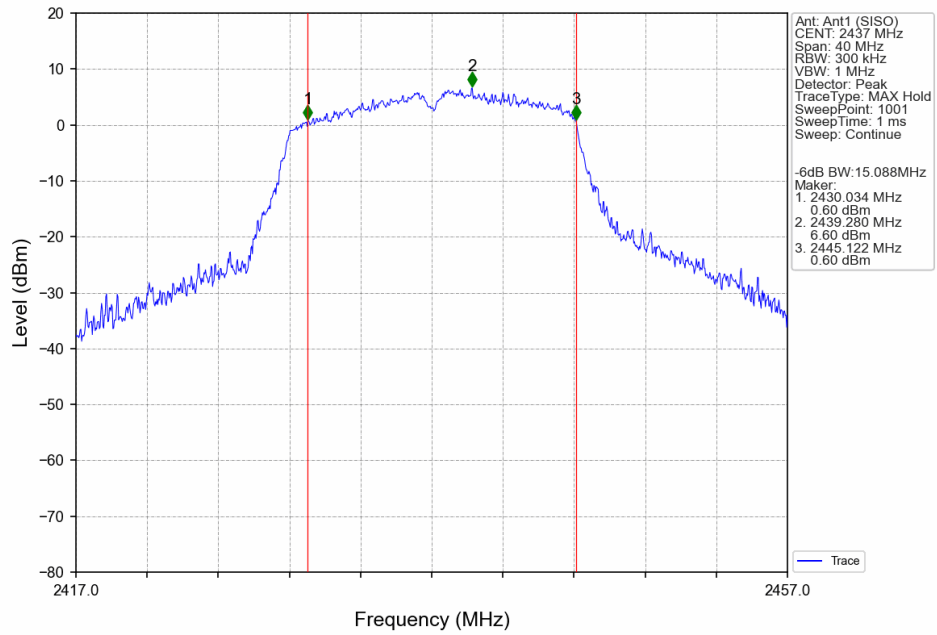
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



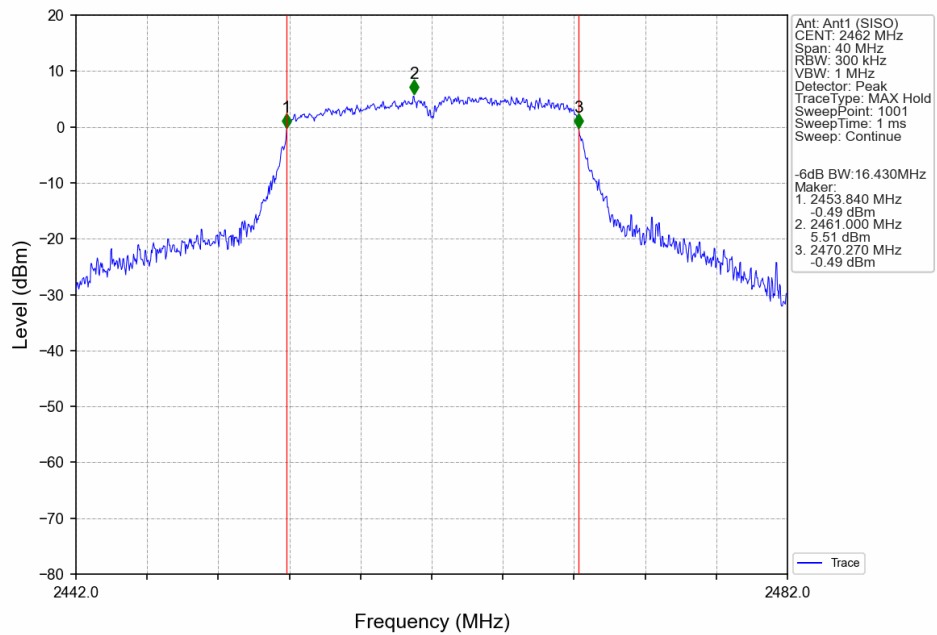
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



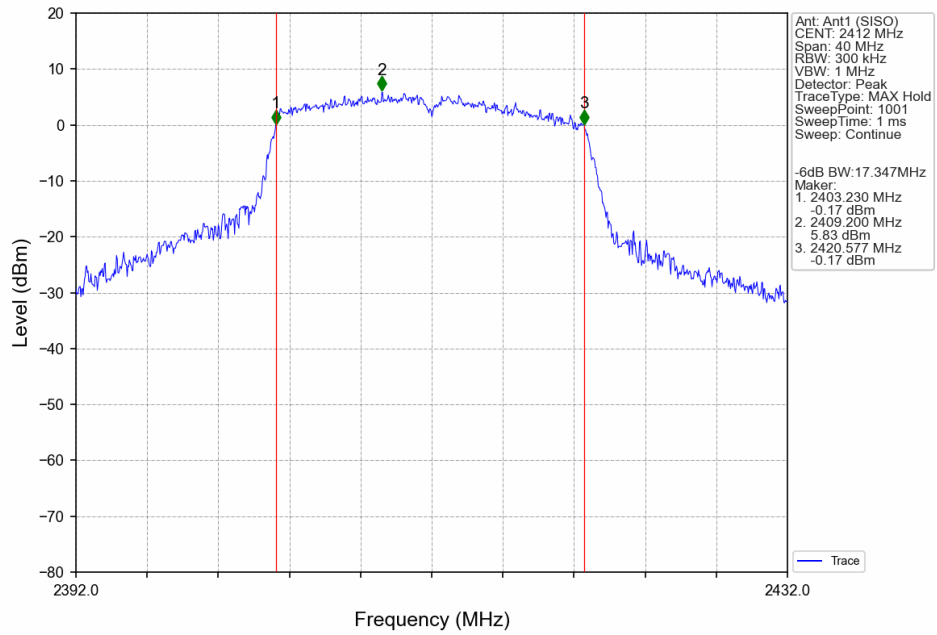
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



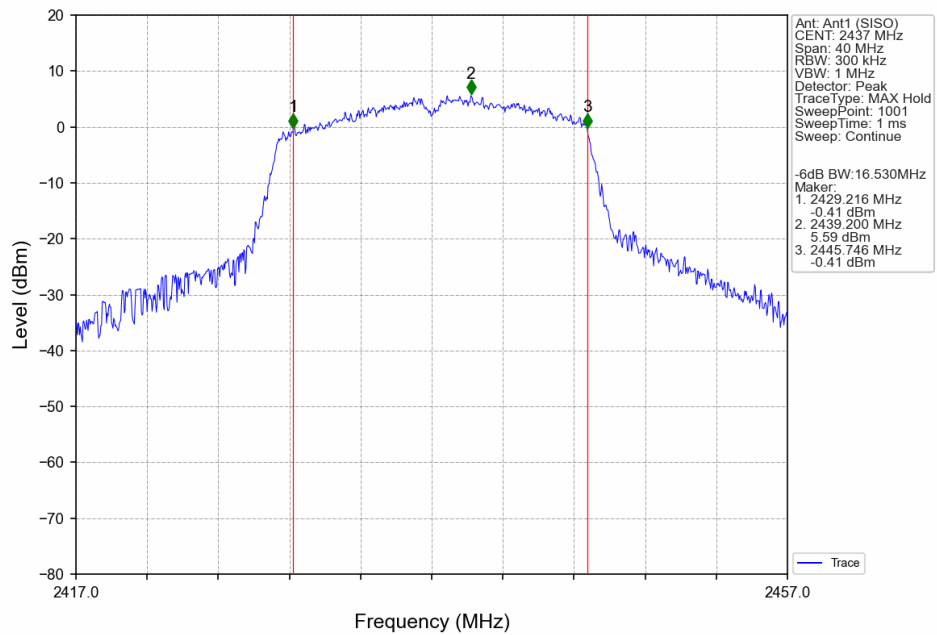
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



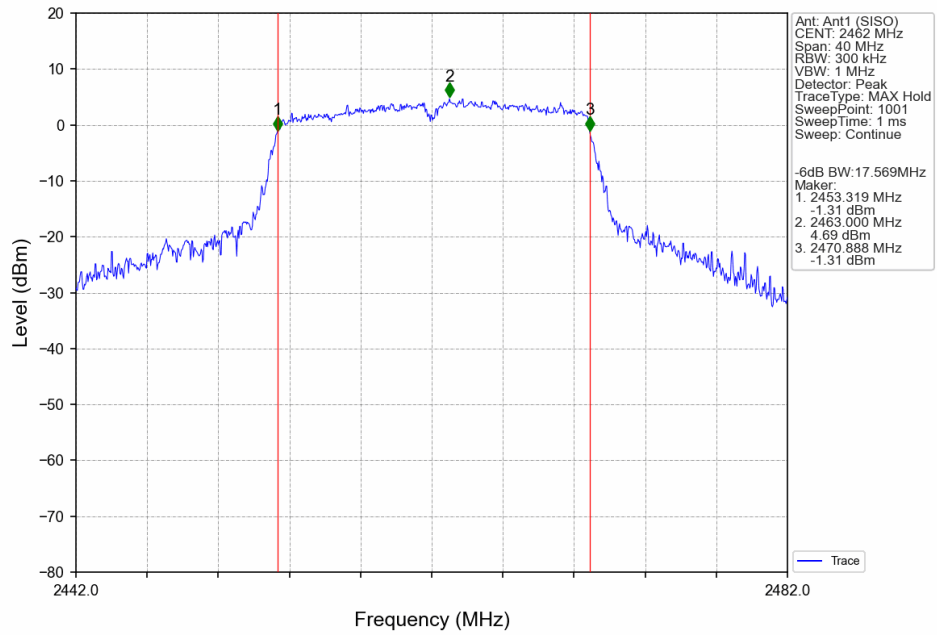
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



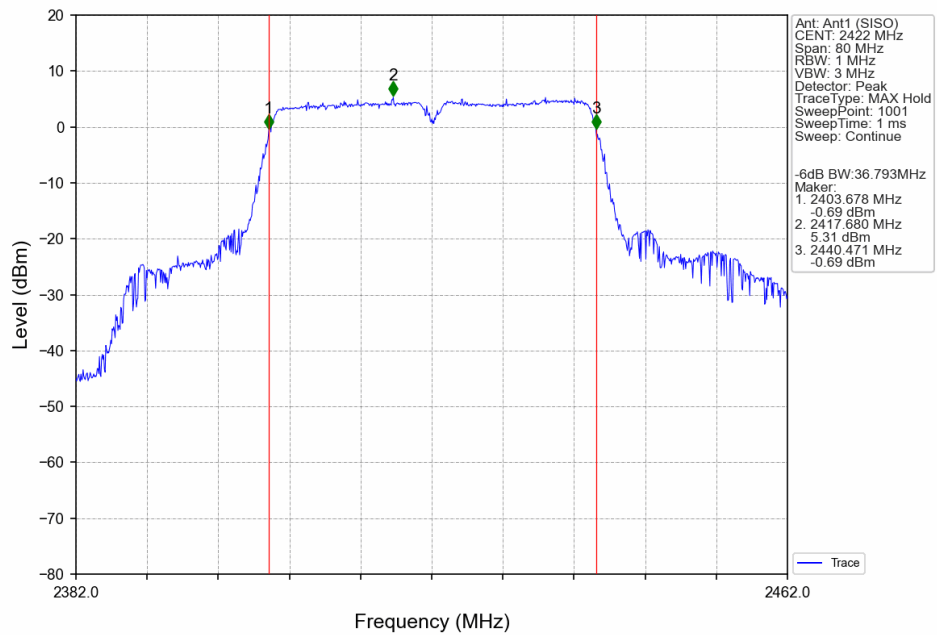
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



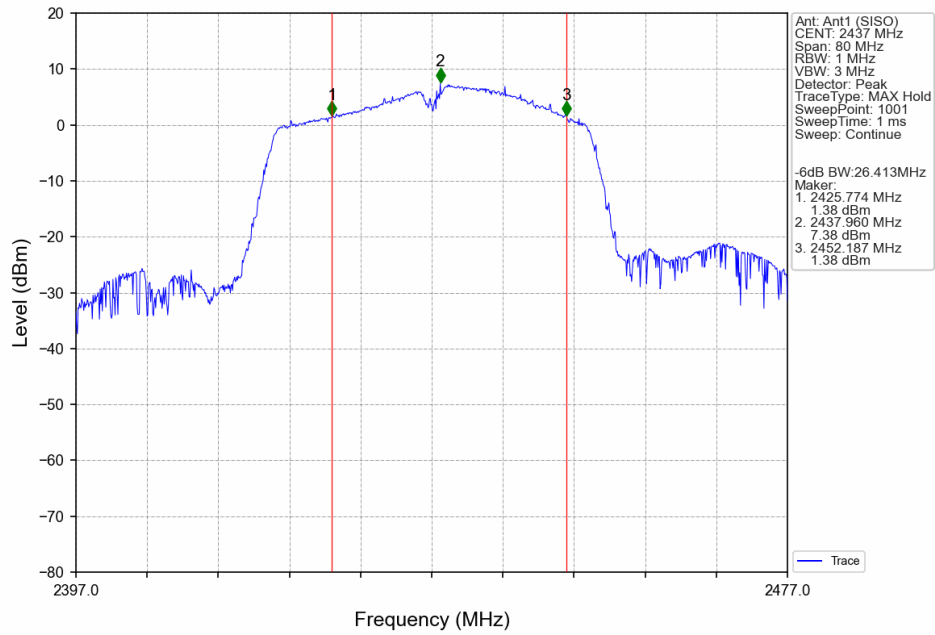
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



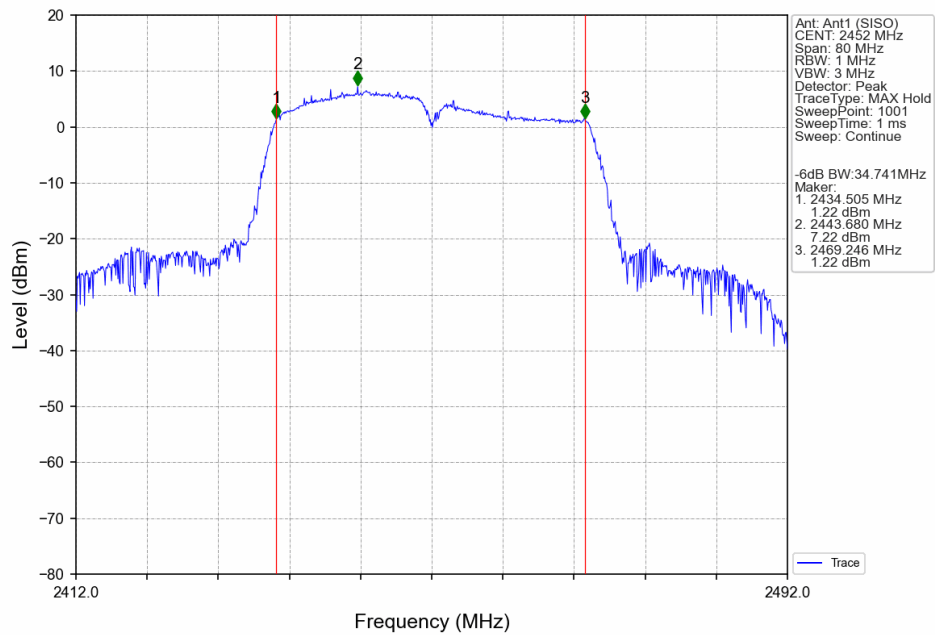
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

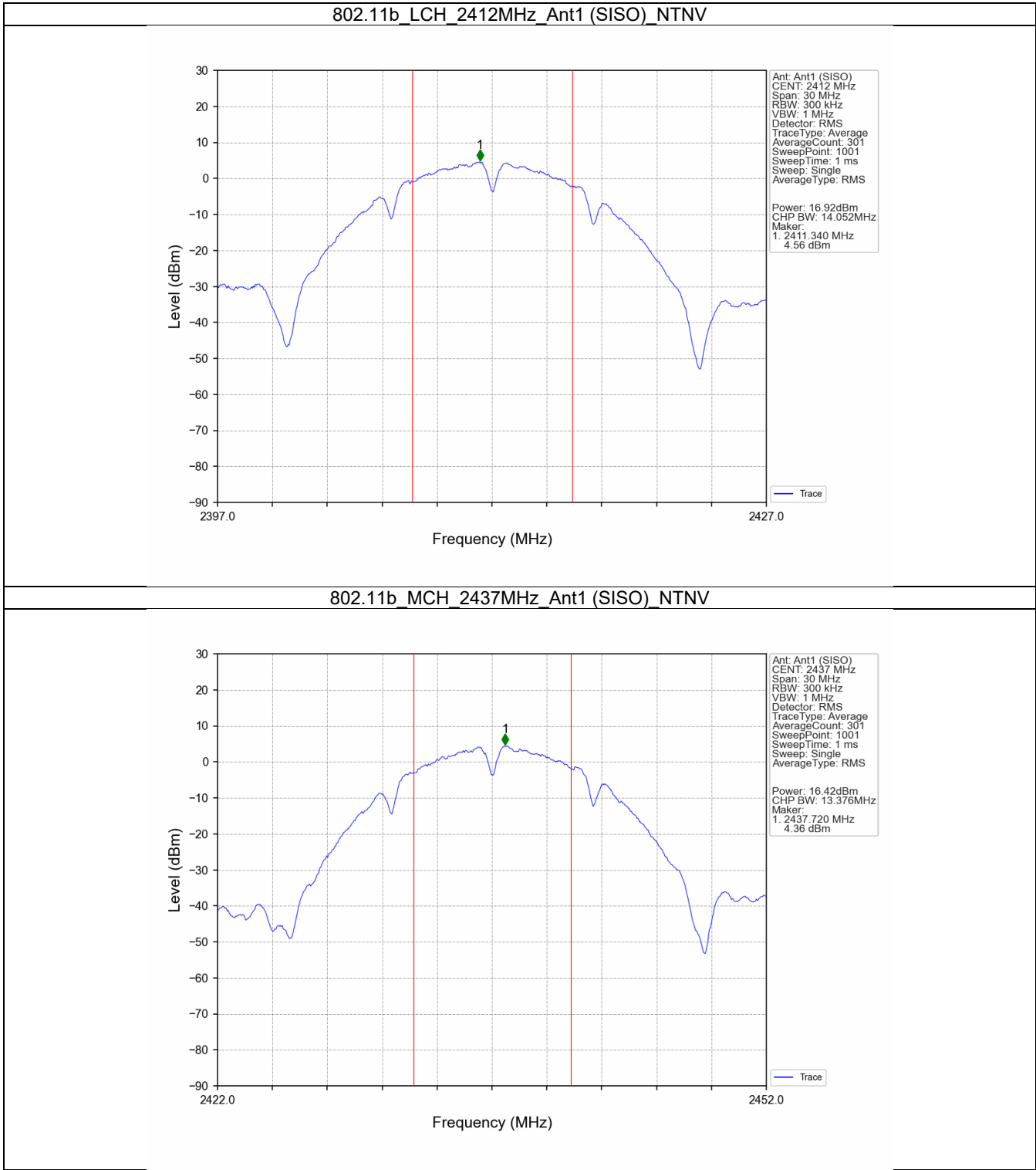
3.1 Test Result

3.1.1 Power

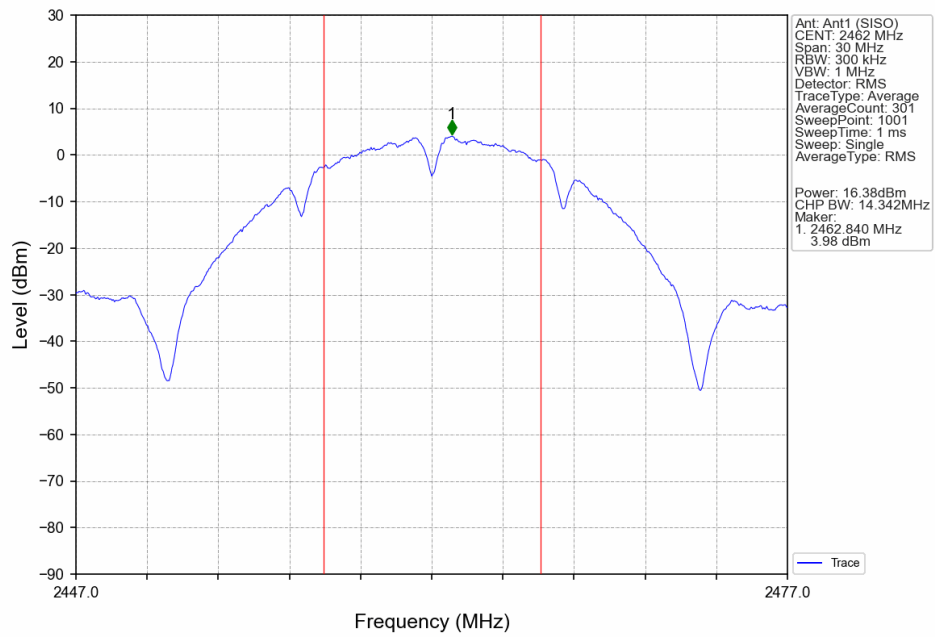
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	16.92	<=30	Pass
		2437	16.42	<=30	Pass
		2462	16.38	<=30	Pass
802.11g	SISO	2412	14.32	<=30	Pass
		2437	13.83	<=30	Pass
		2462	13.92	<=30	Pass
802.11n (HT20)	SISO	2412	13.70	<=30	Pass
		2437	13.26	<=30	Pass
		2462	13.20	<=30	Pass
802.11n (HT40)	SISO	2422	11.32	<=30	Pass
		2437	11.21	<=30	Pass
		2452	11.15	<=30	Pass

3.2 Test Graph

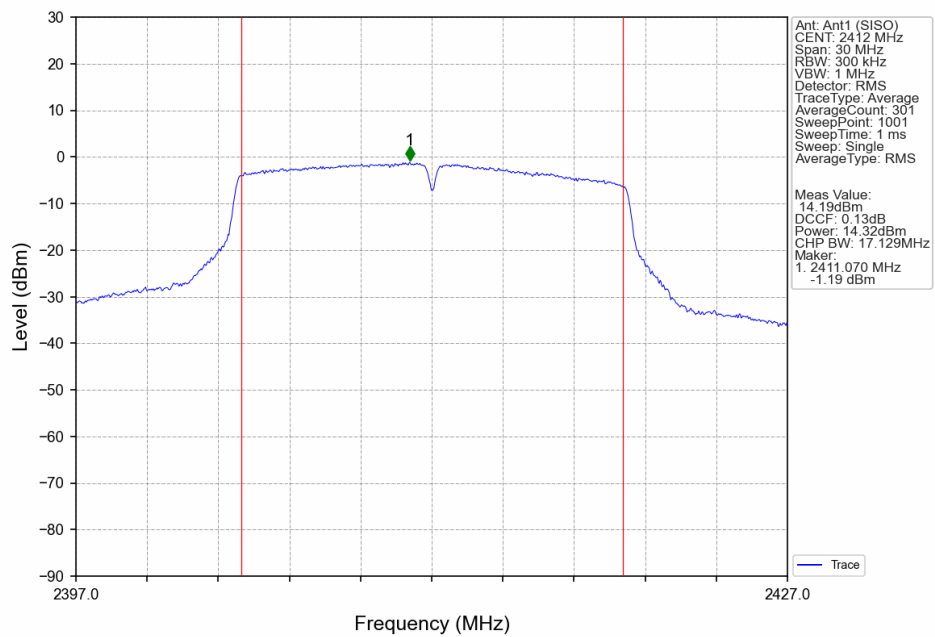
3.2.1 Power



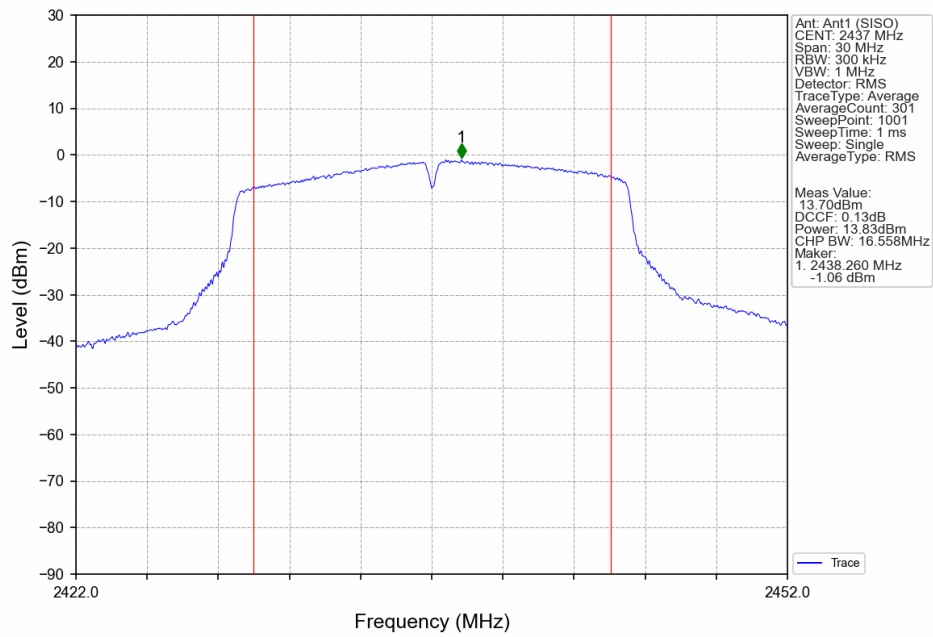
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



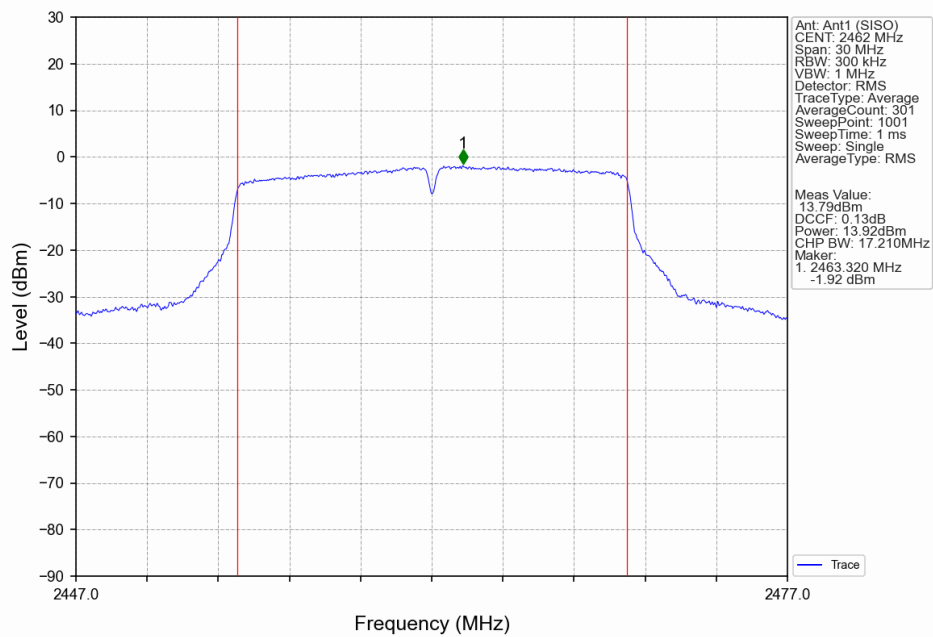
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



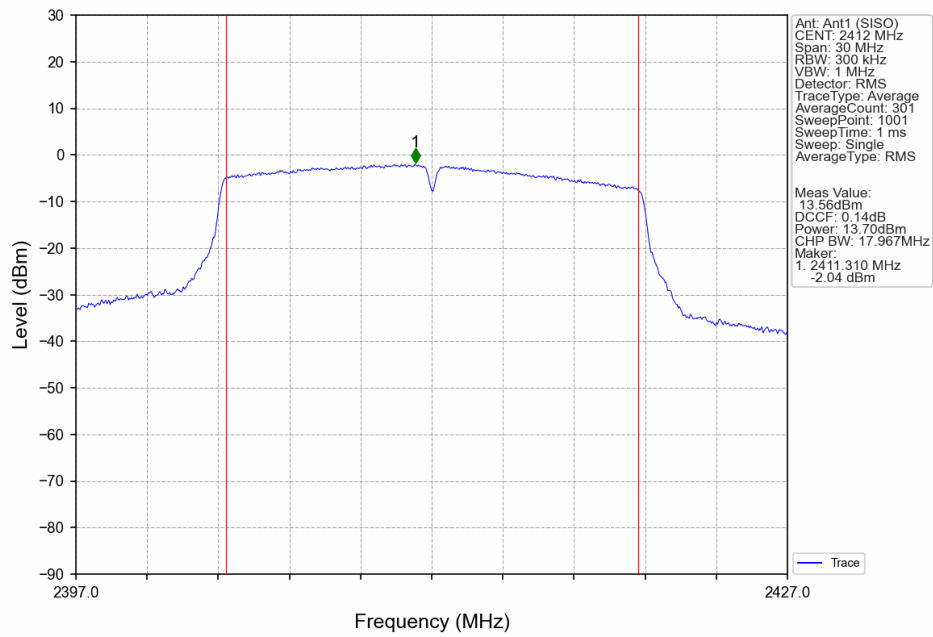
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



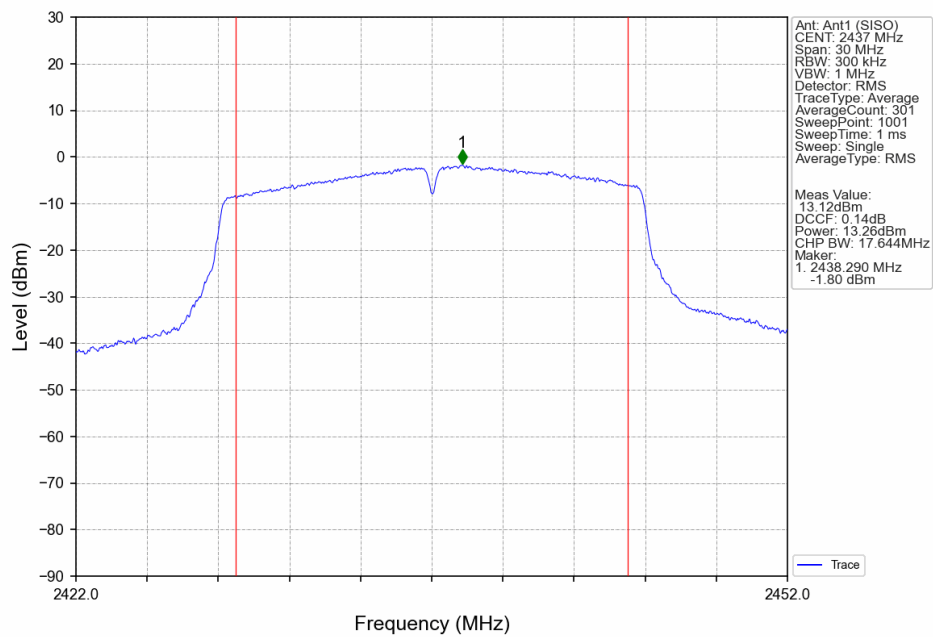
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



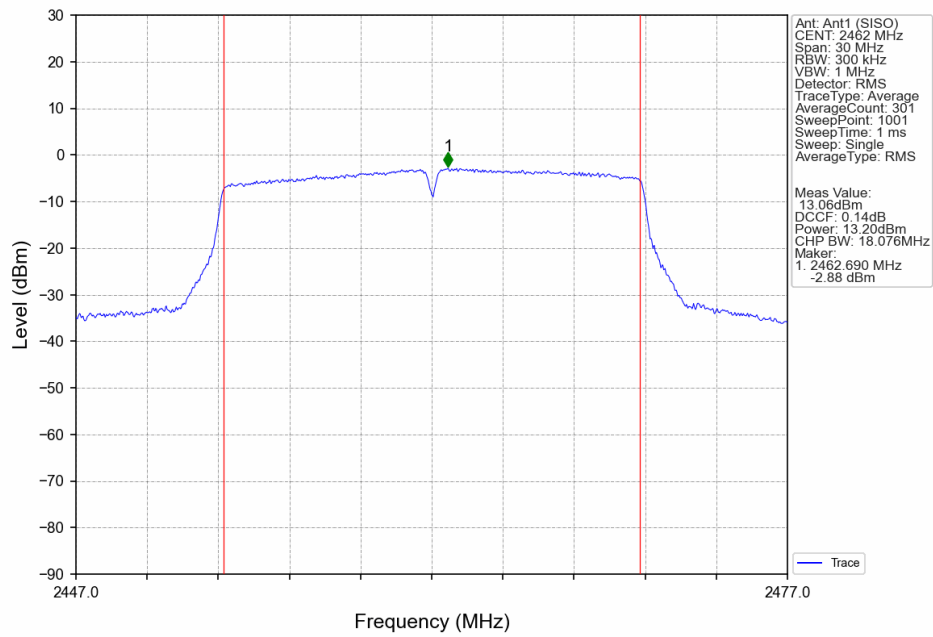
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



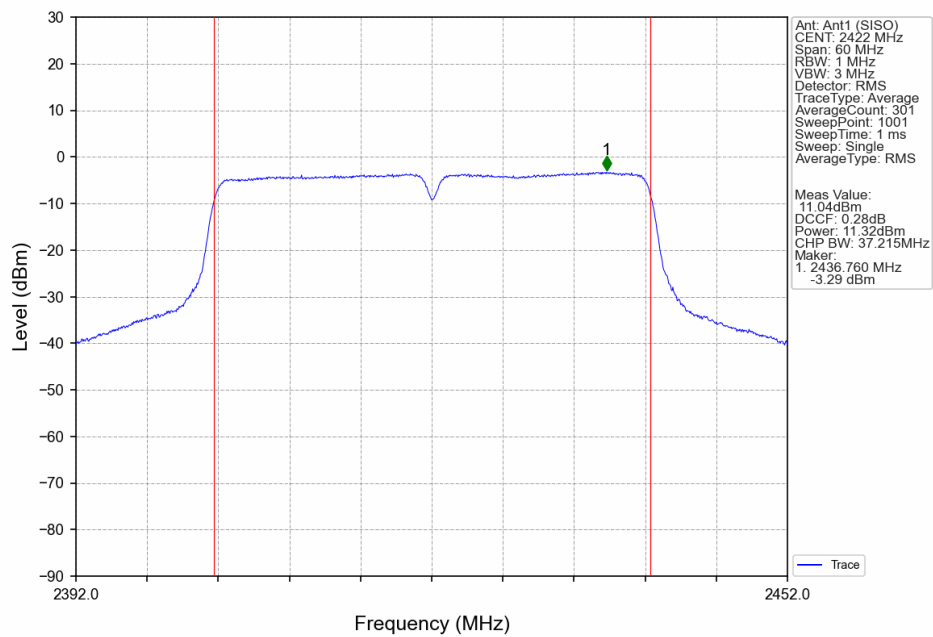
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



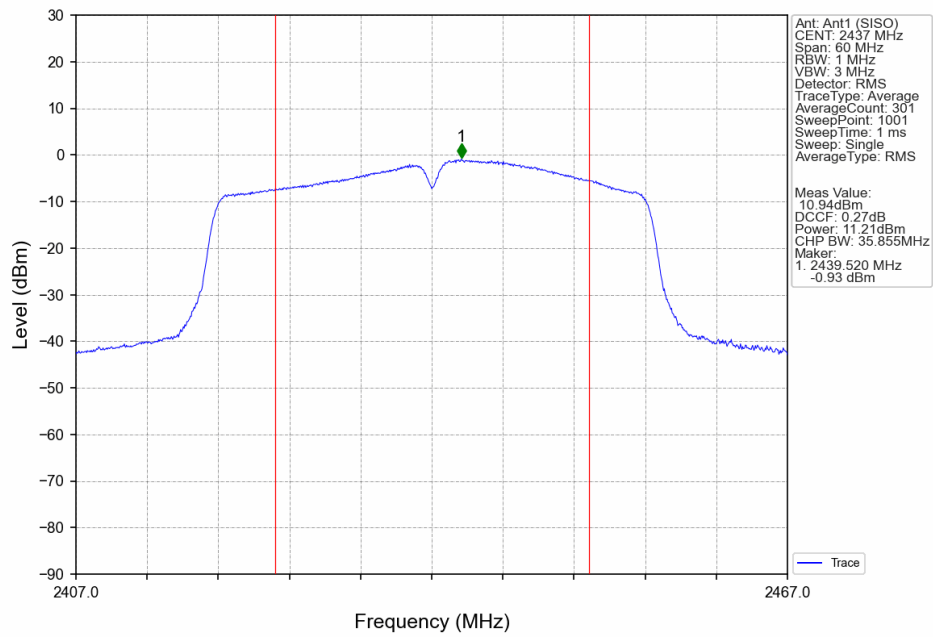
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



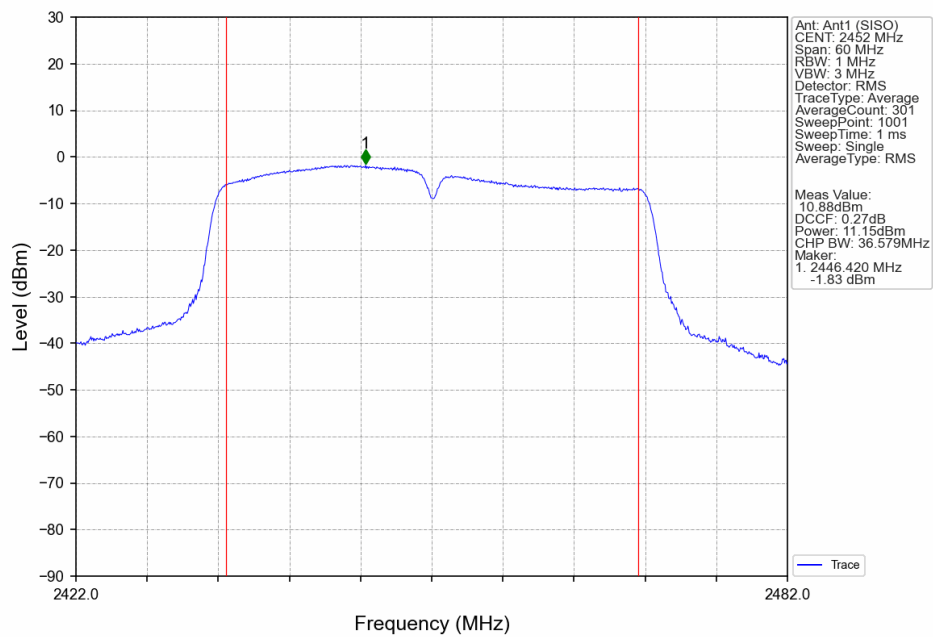
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



4. Maximum Power Spectral Density

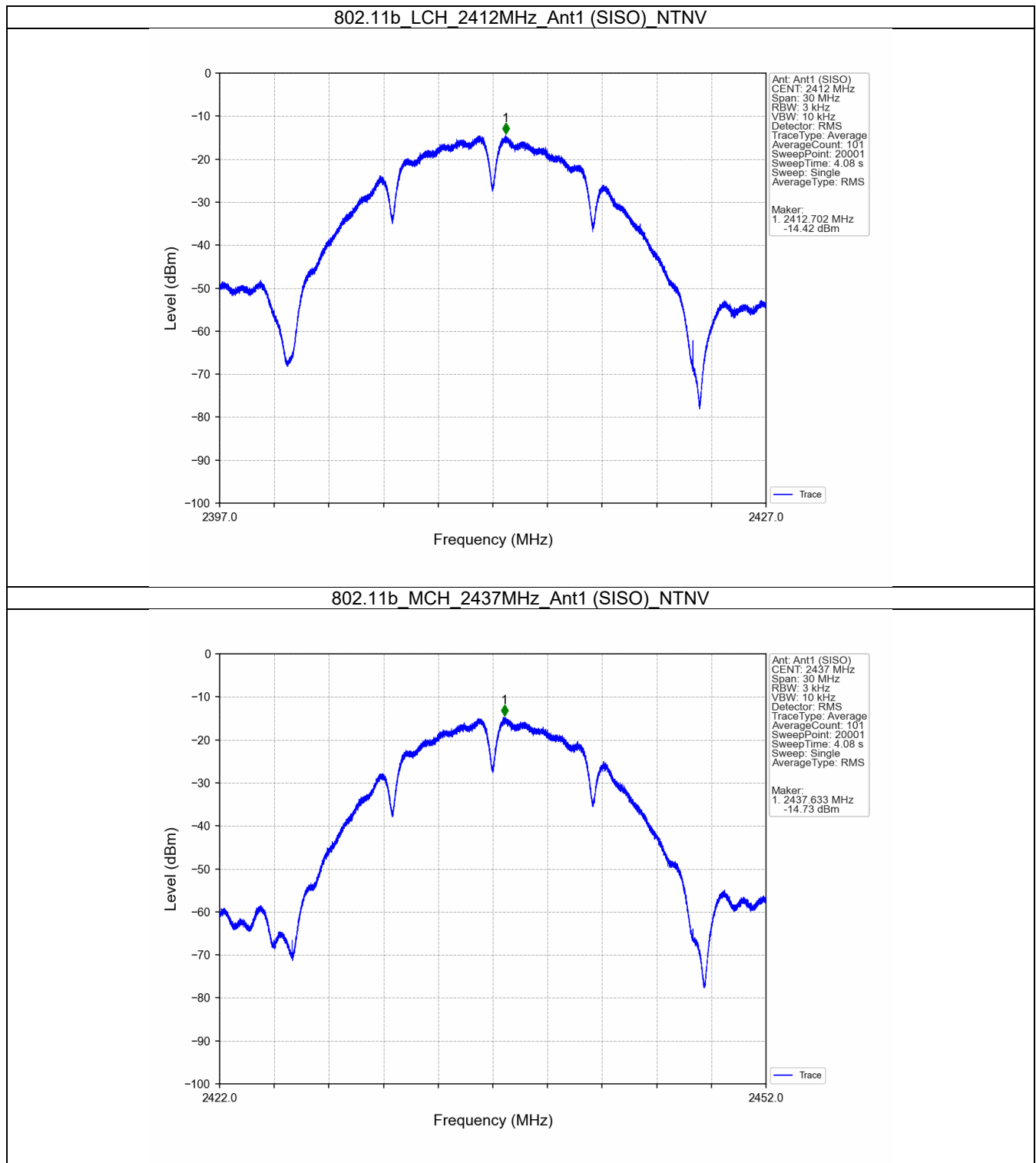
4.1 Test Result

4.1.1 PSD

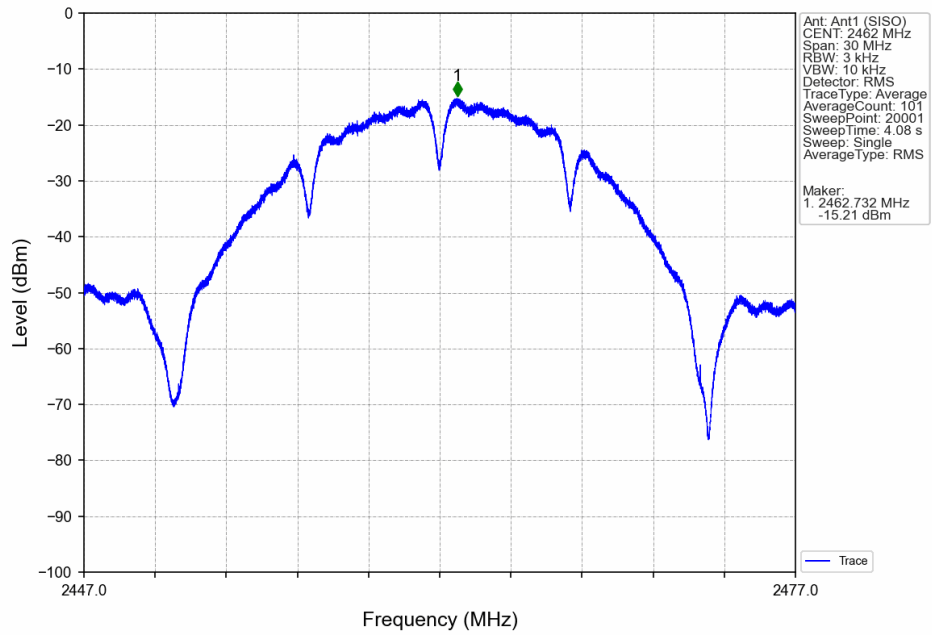
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-14.42	<=8	Pass
		2437	-14.73	<=8	Pass
		2462	-15.21	<=8	Pass
802.11g	SISO	2412	-19.02	<=8	Pass
		2437	-19.11	<=8	Pass
		2462	-19.59	<=8	Pass
802.11n (HT20)	SISO	2412	-19.28	<=8	Pass
		2437	-19.57	<=8	Pass
		2462	-20.09	<=8	Pass
802.11n (HT40)	SISO	2422	-23.33	<=8	Pass
		2437	-21.62	<=8	Pass
		2452	-21.90	<=8	Pass

4.2 Test Graph

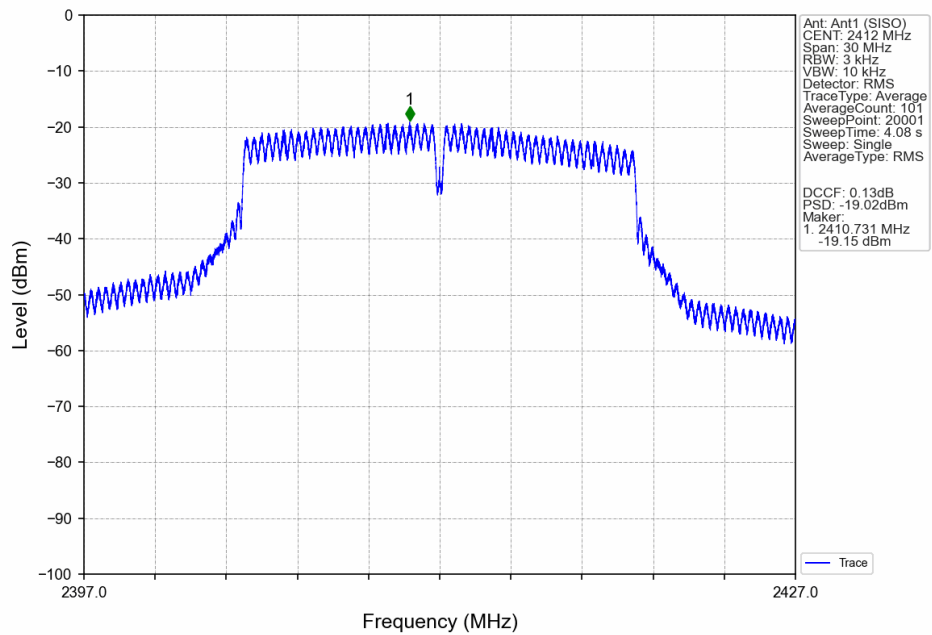
4.2.1 PSD



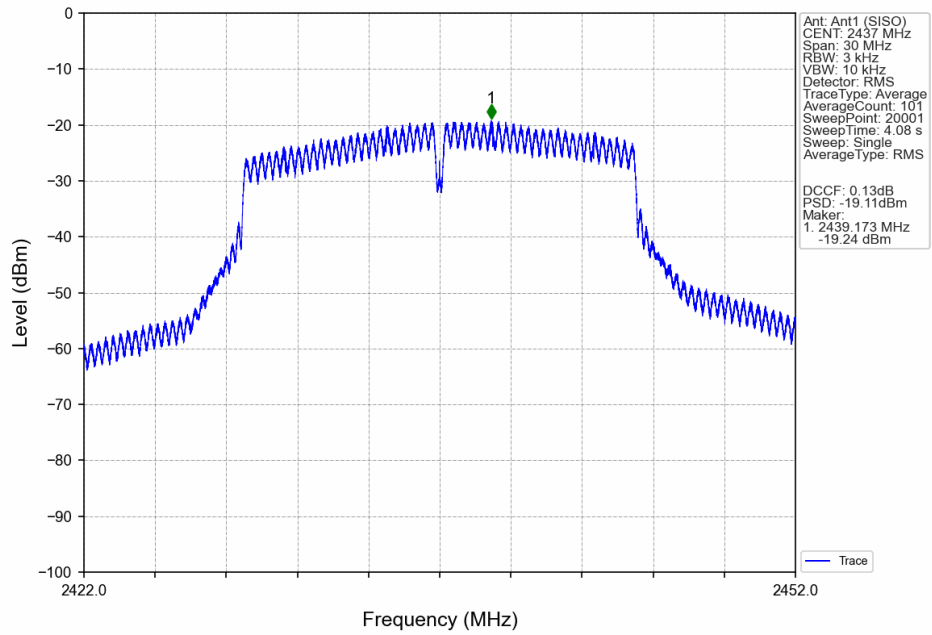
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



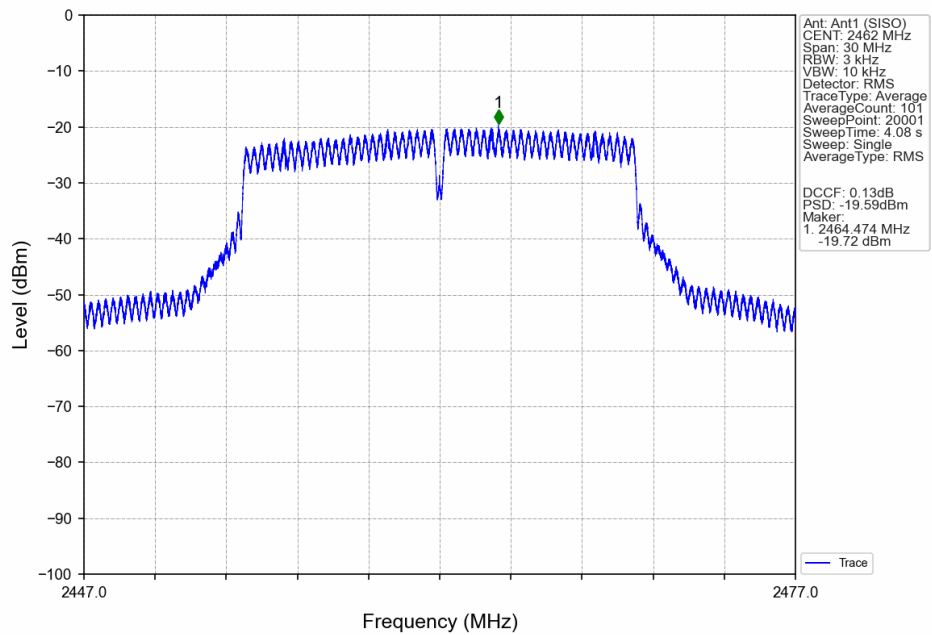
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



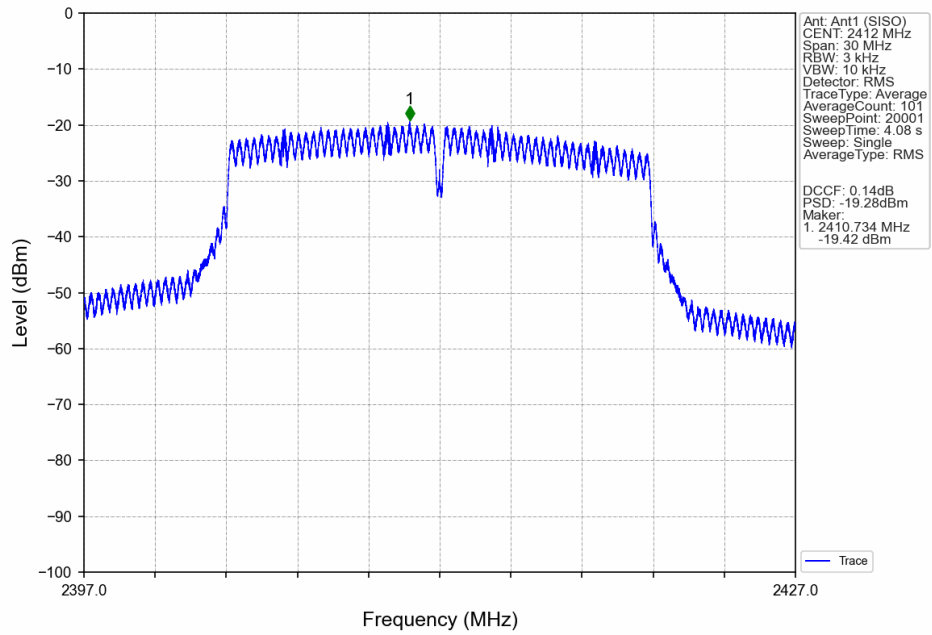
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



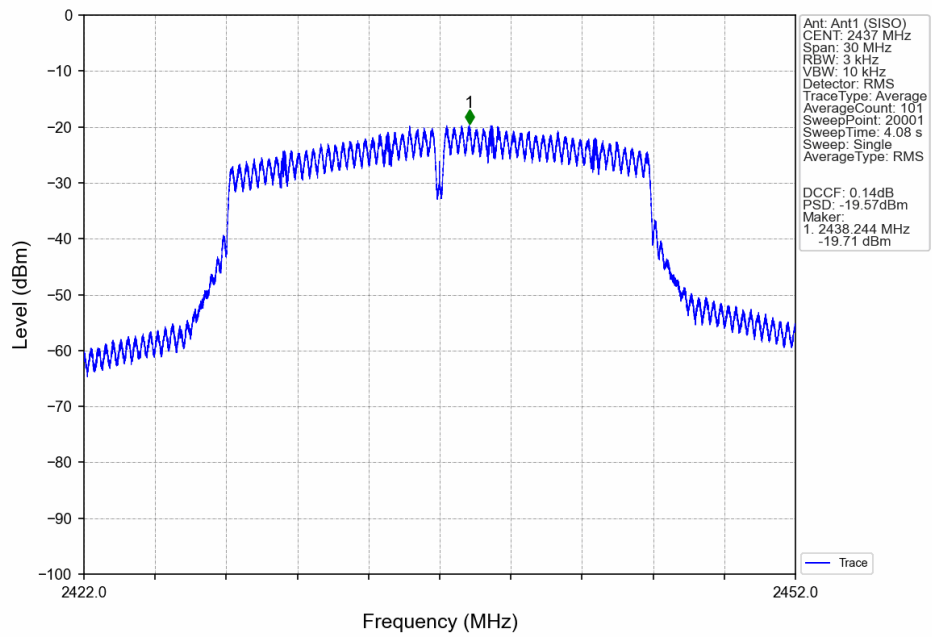
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



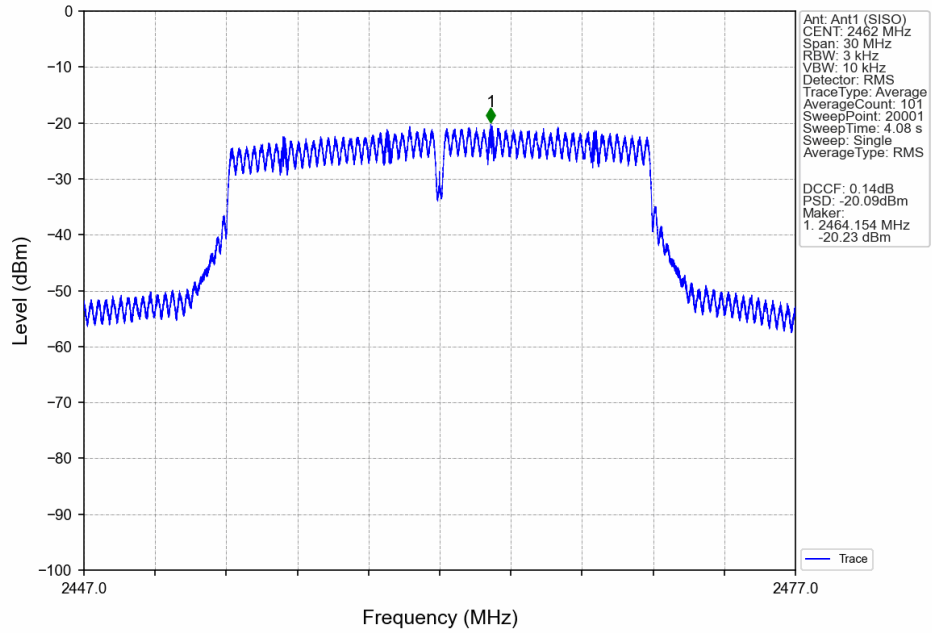
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



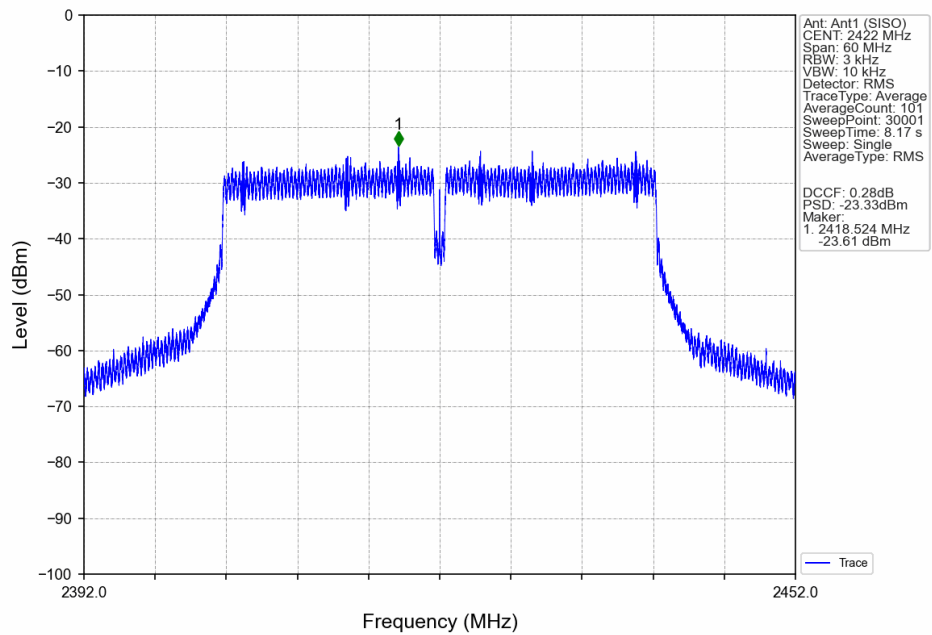
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



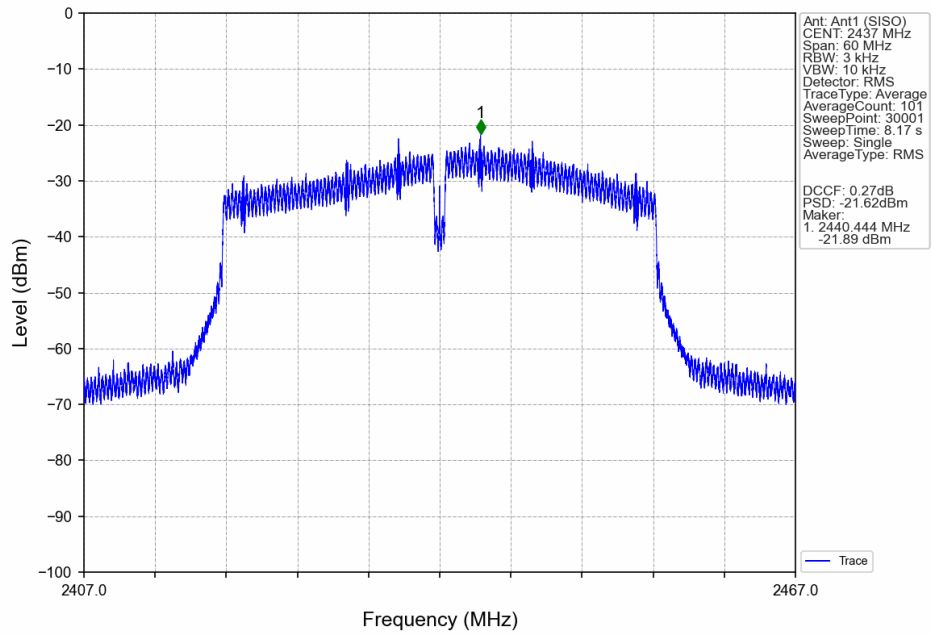
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



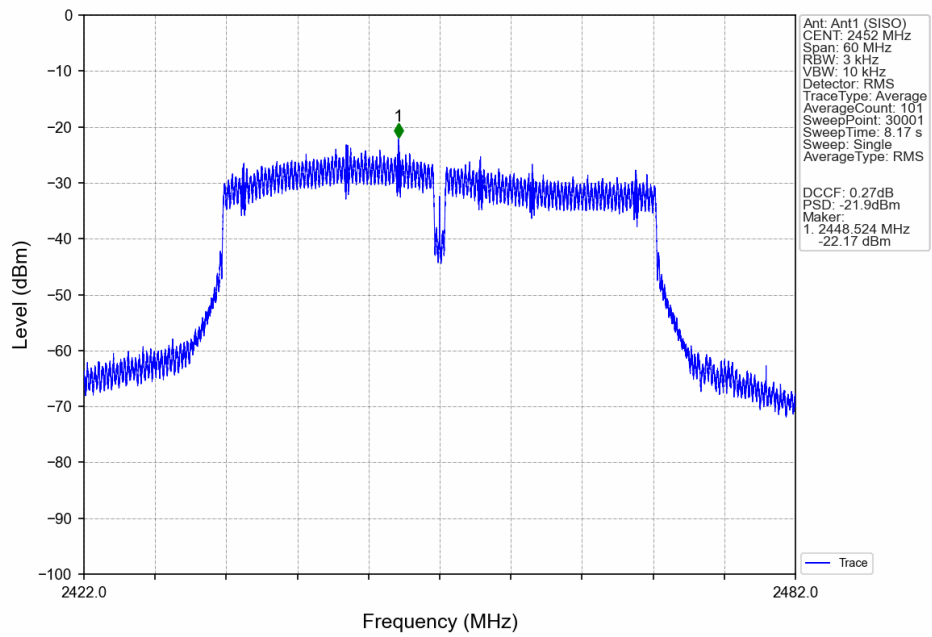
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

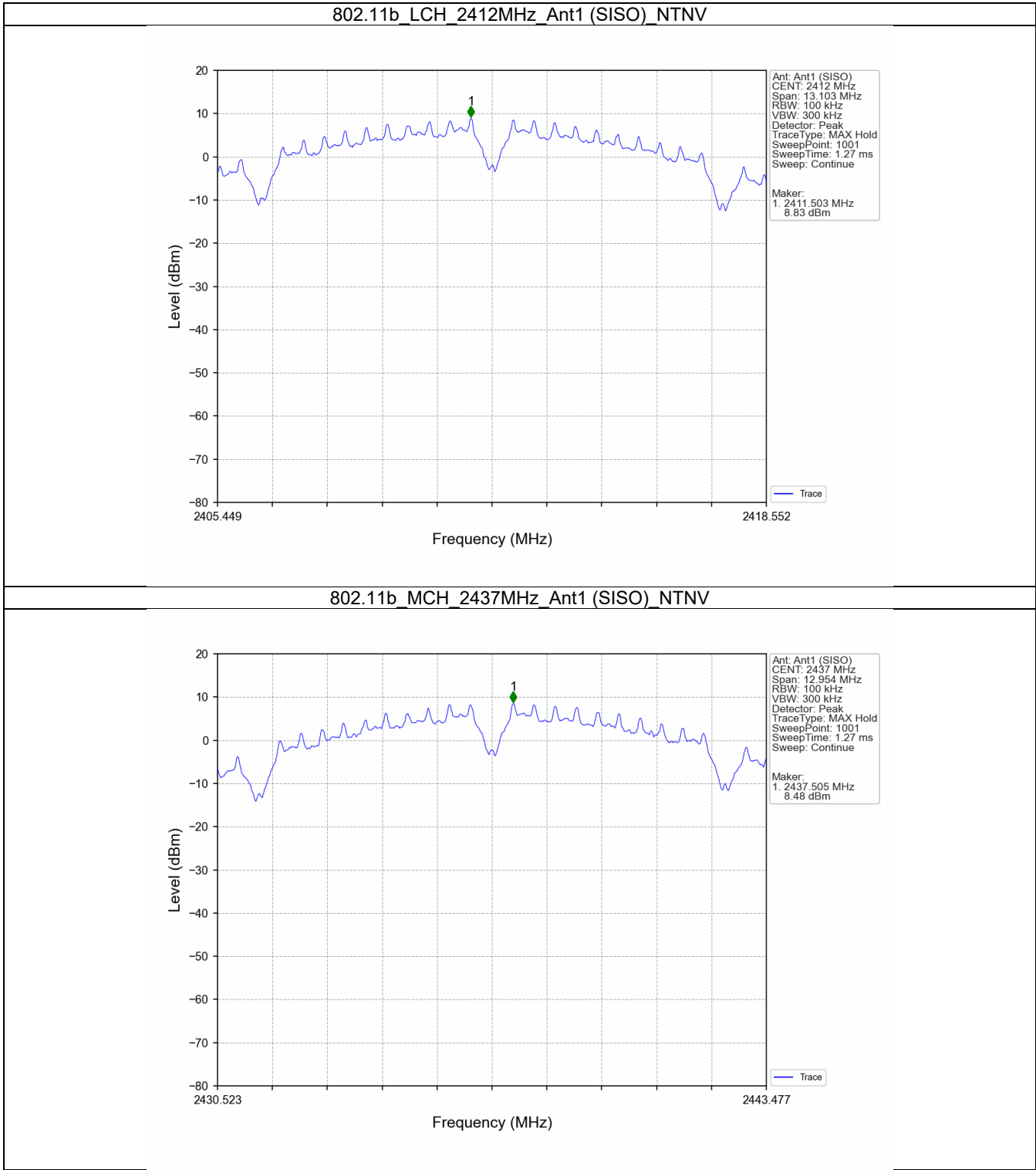
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	8.83
		2437	1	8.48
		2462	1	8.16
802.11g	SISO	2412	1	0.08
		2437	1	4.39
		2462	1	3.60
802.11n (HT20)	SISO	2412	1	0.47
		2437	1	3.91
		2462	1	3.11
802.11n (HT40)	SISO	2422	1	-6.24
		2437	1	-0.26
		2452	1	-1.03

5.1.2 CSE

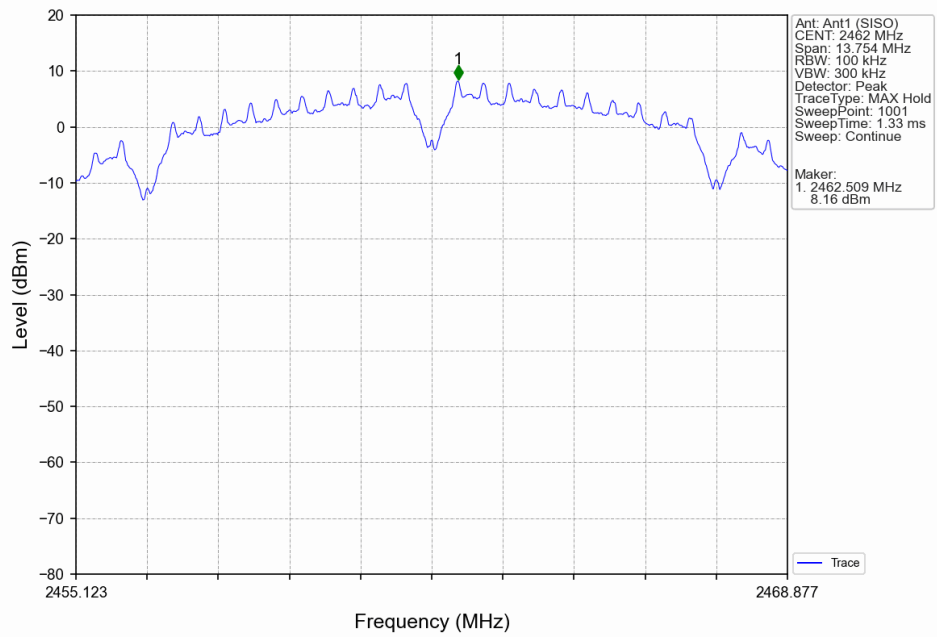
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.83	-21.17	Pass
		2437	1	8.48	-21.52	Pass
		2462	1	8.16	-21.84	Pass
802.11g	SISO	2412	1	0.08	-29.92	Pass
		2437	1	4.39	-25.61	Pass
		2462	1	3.60	-26.40	Pass
802.11n (HT20)	SISO	2412	1	0.47	-29.53	Pass
		2437	1	3.91	-26.09	Pass
		2462	1	3.11	-26.89	Pass
802.11n (HT40)	SISO	2422	1	-6.24	-36.24	Pass
		2437	1	-0.26	-30.26	Pass
		2452	1	-1.03	-31.03	Pass

5.2 Test Graph

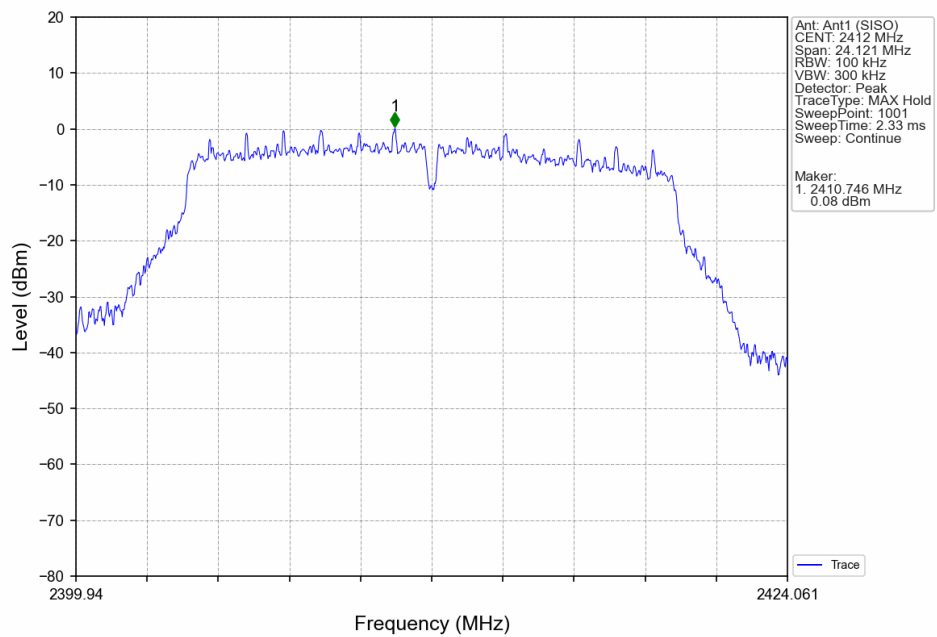
5.2.1 Ref



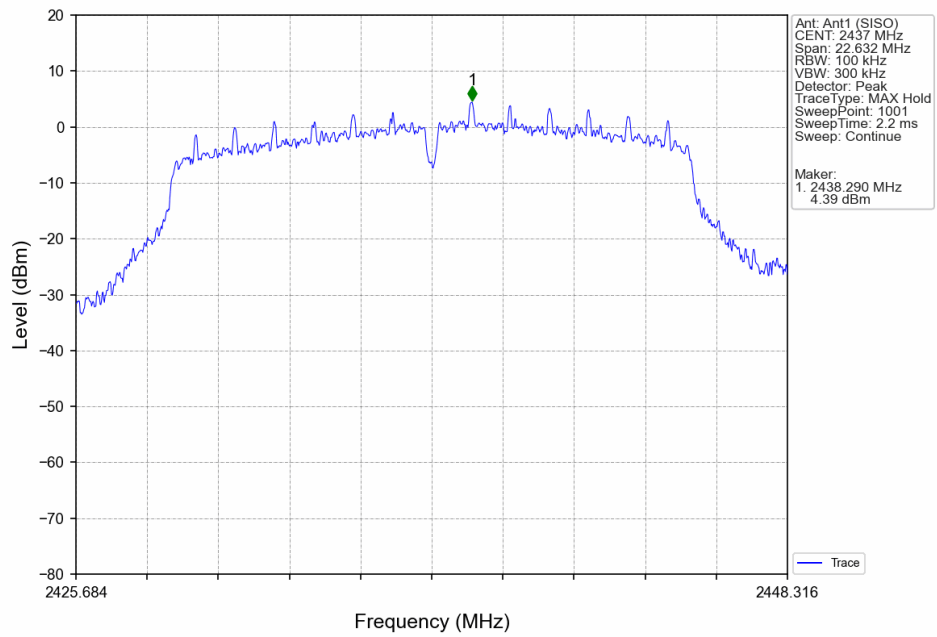
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



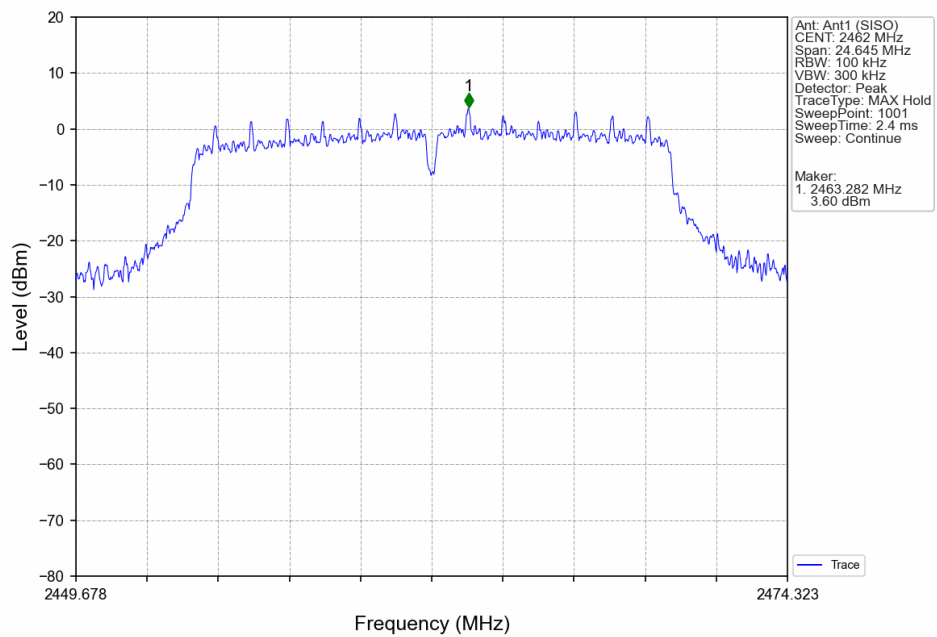
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



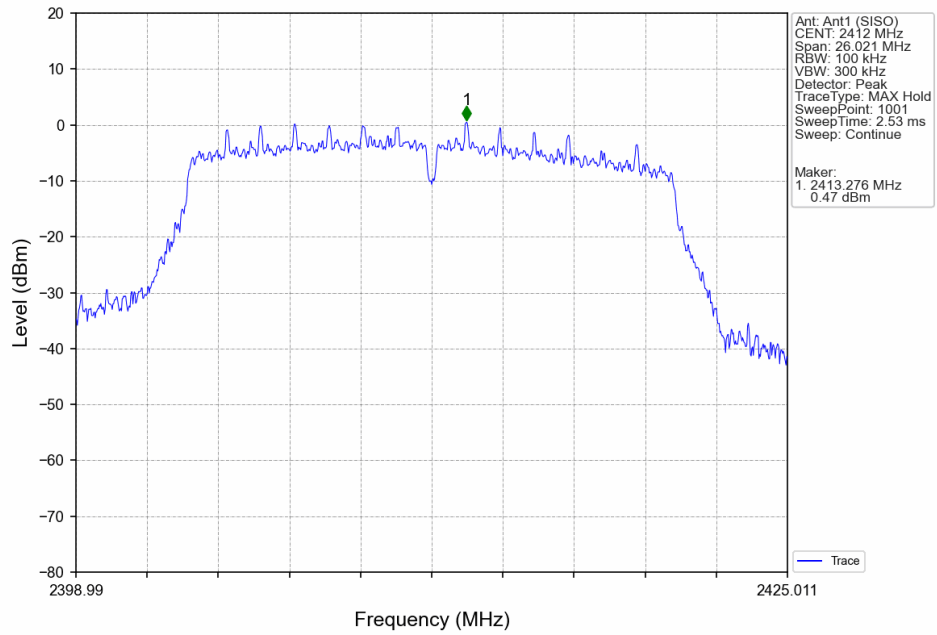
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



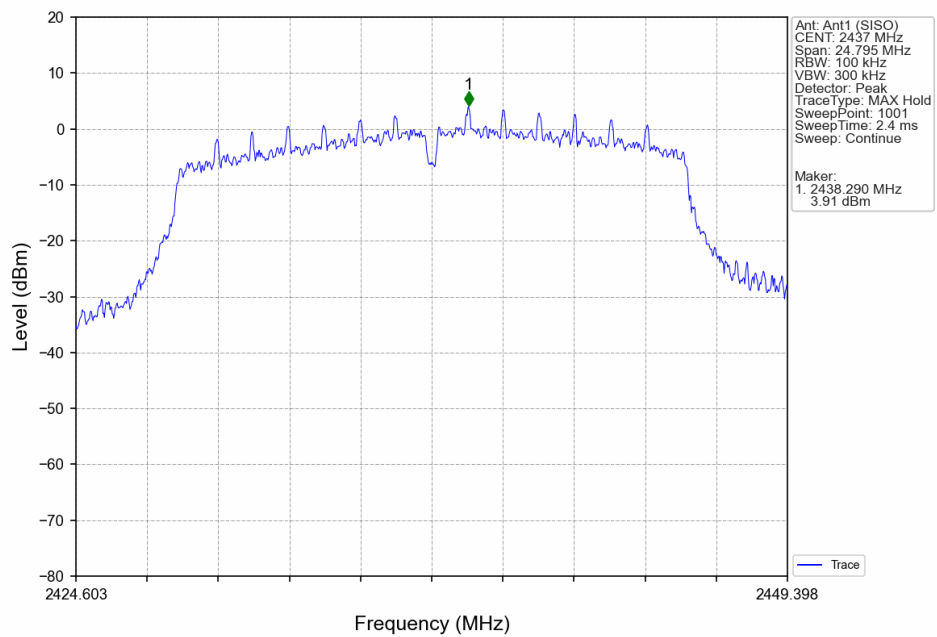
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



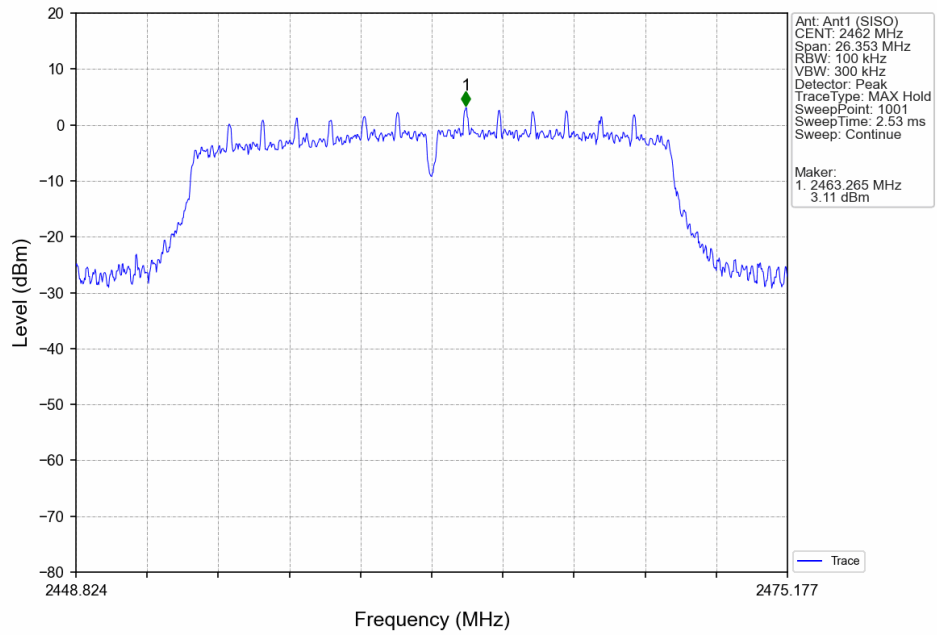
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



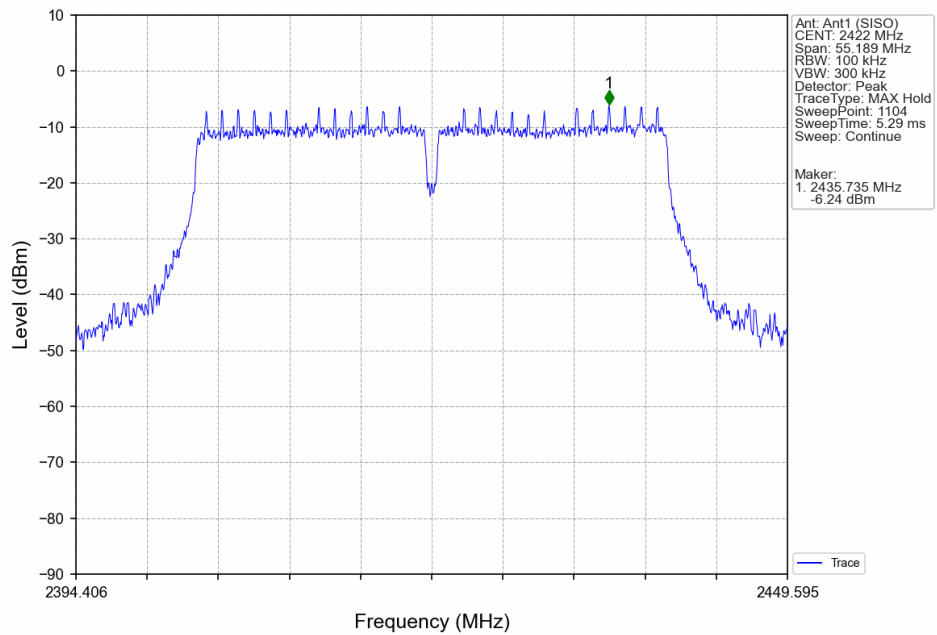
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



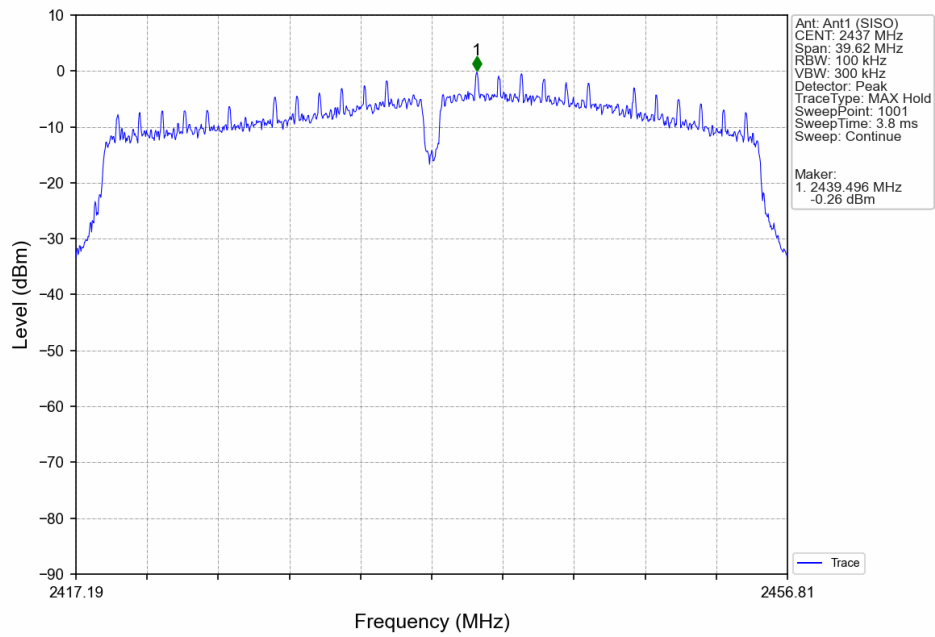
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



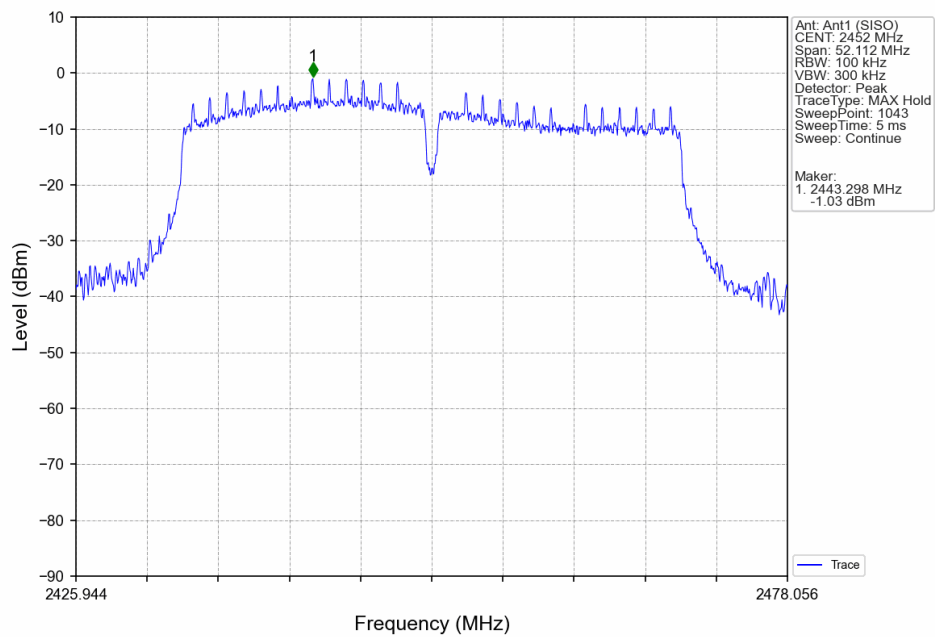
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



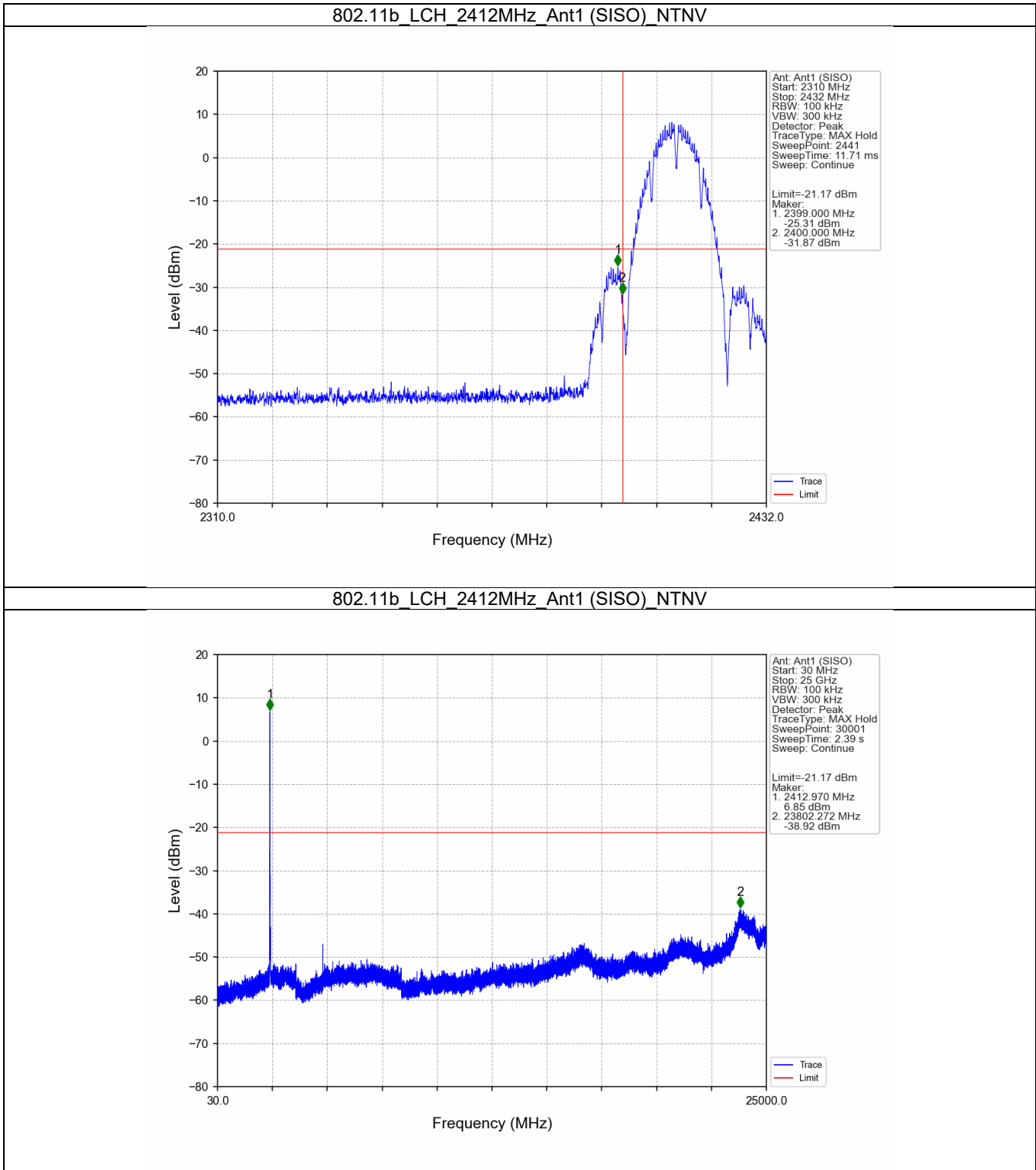
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



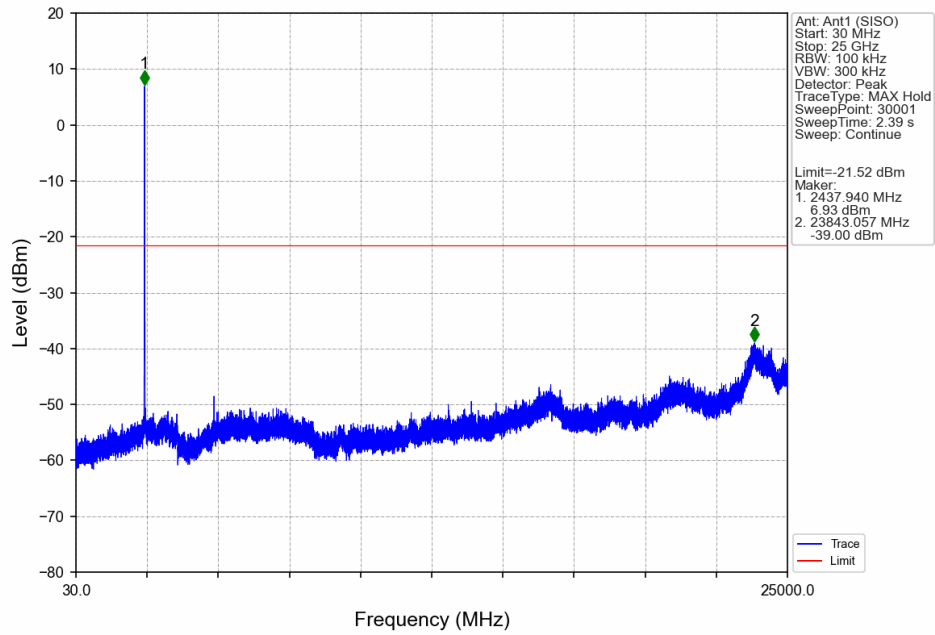
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



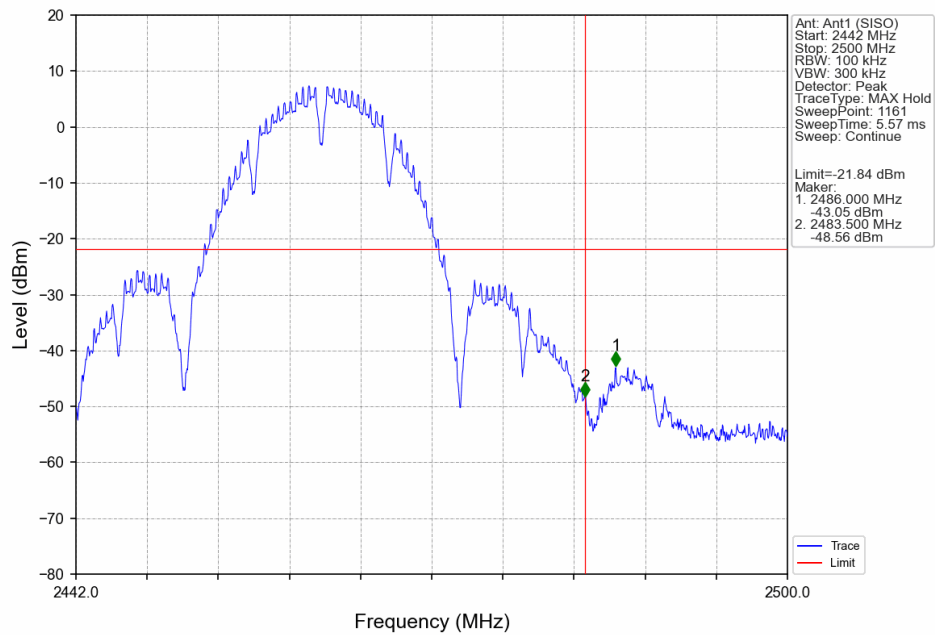
5.2.2 CSE



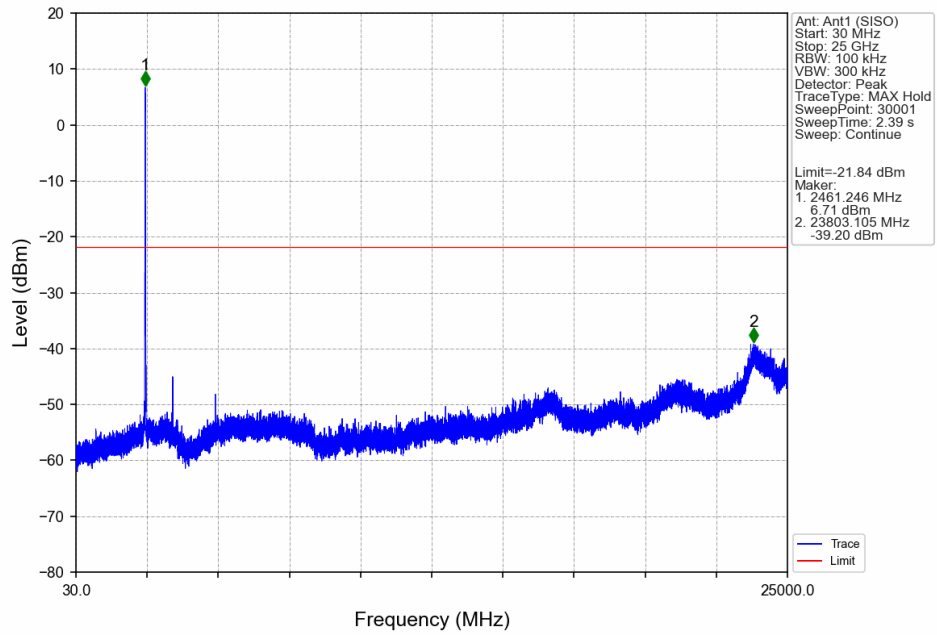
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



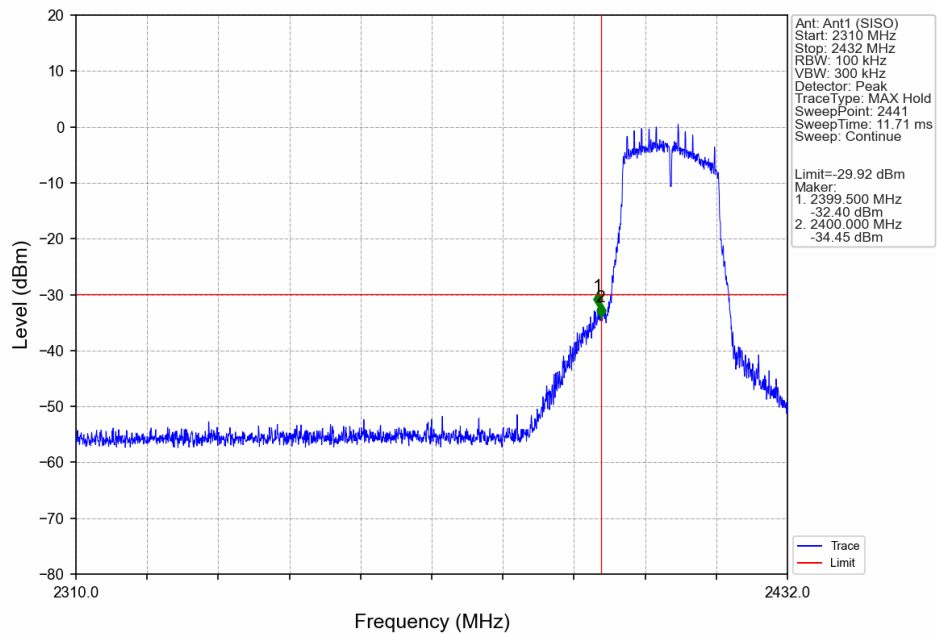
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



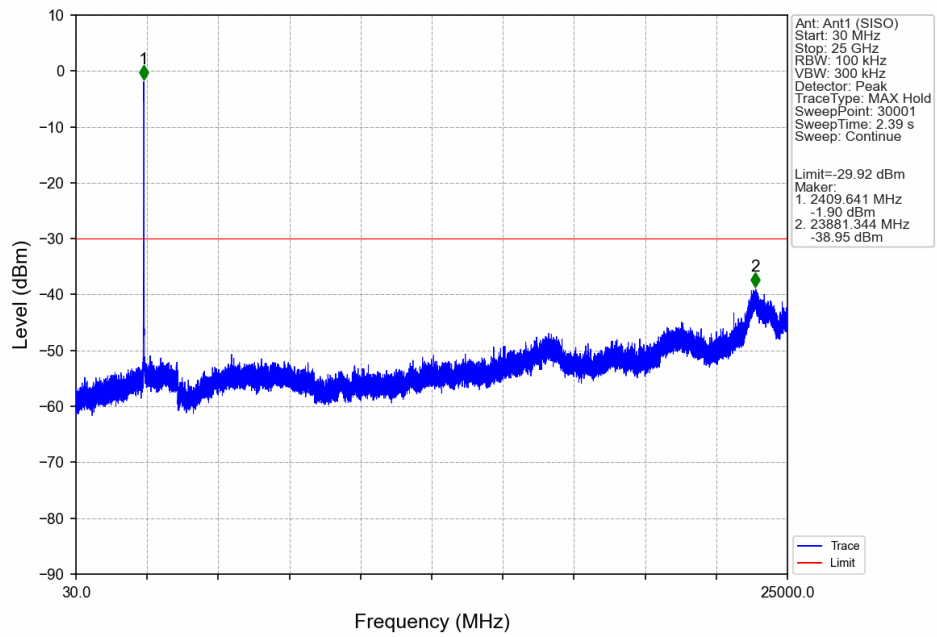
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



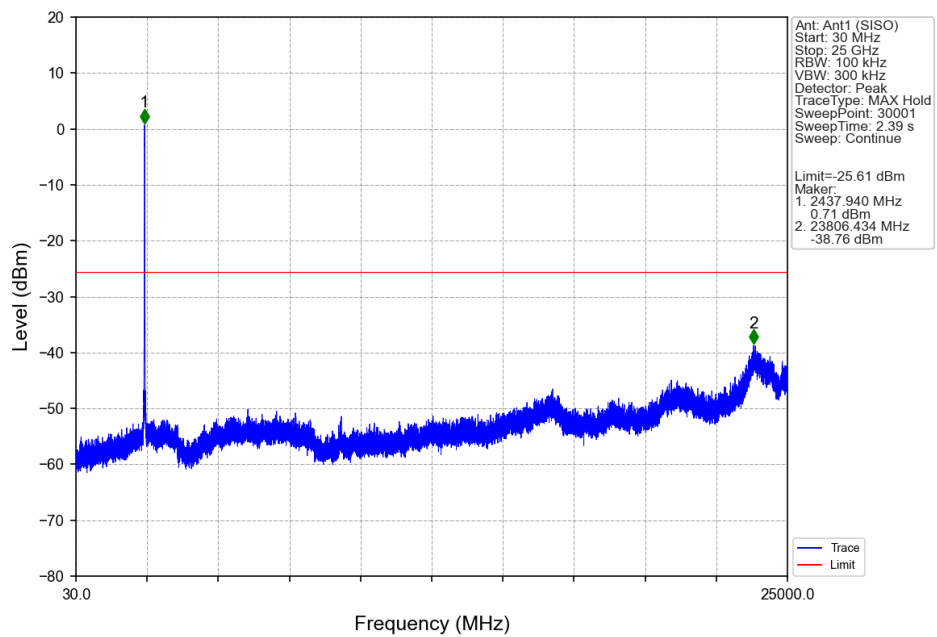
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



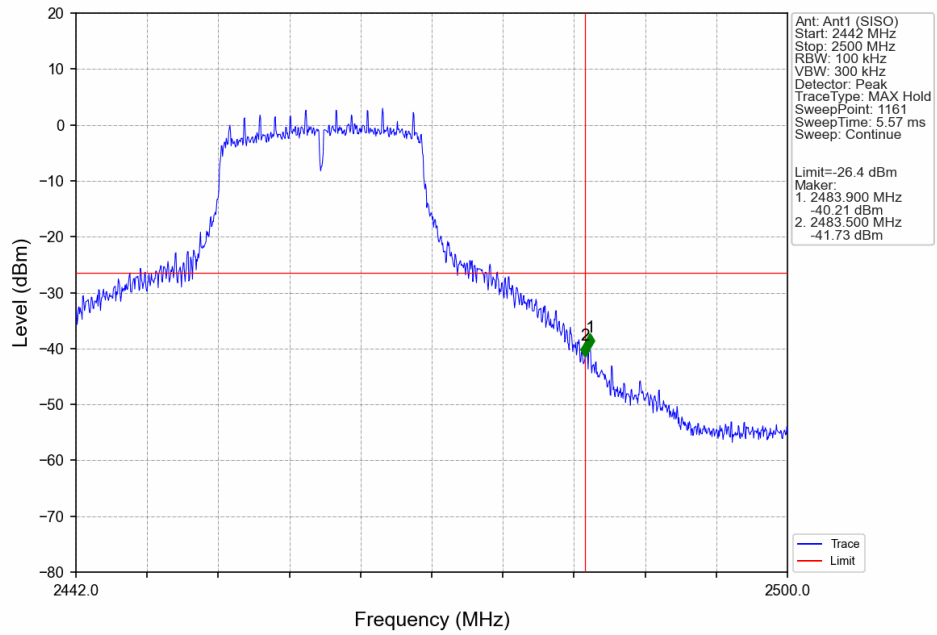
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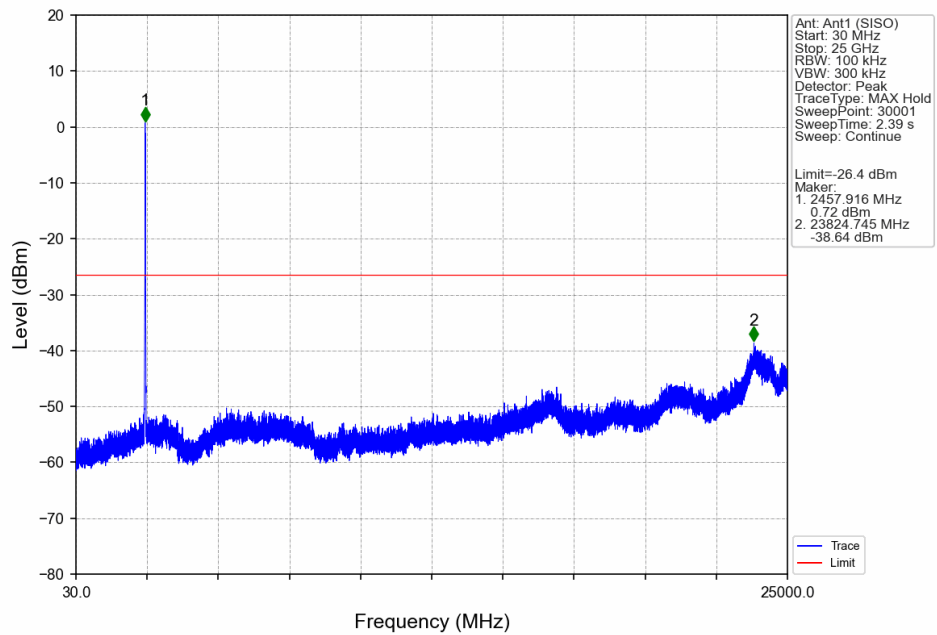
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



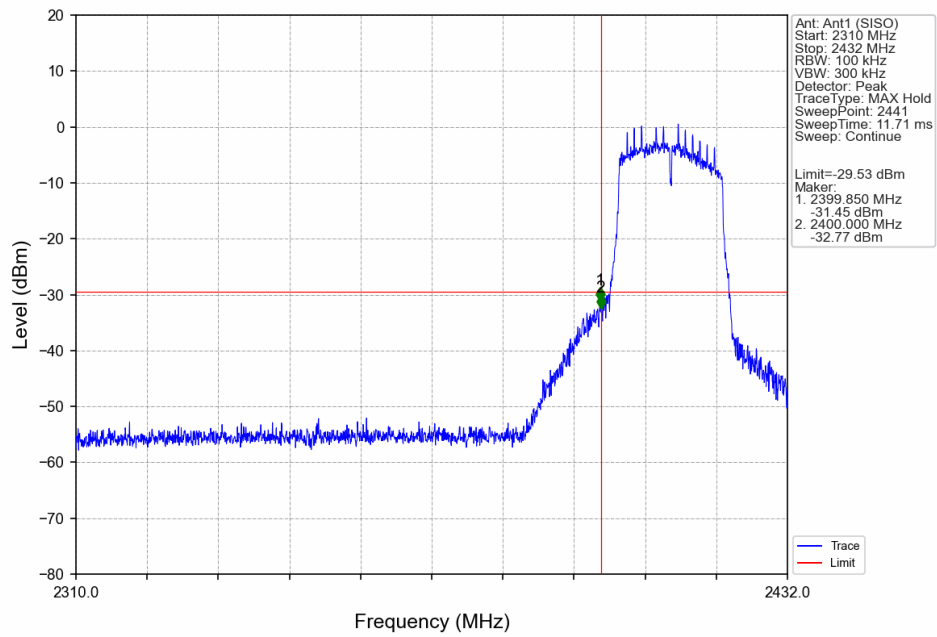
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



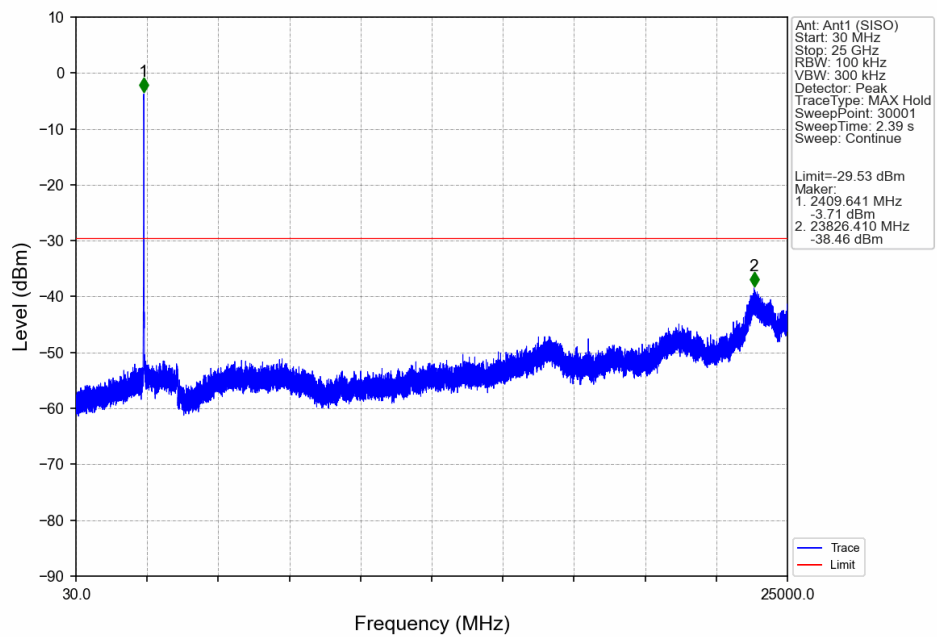
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



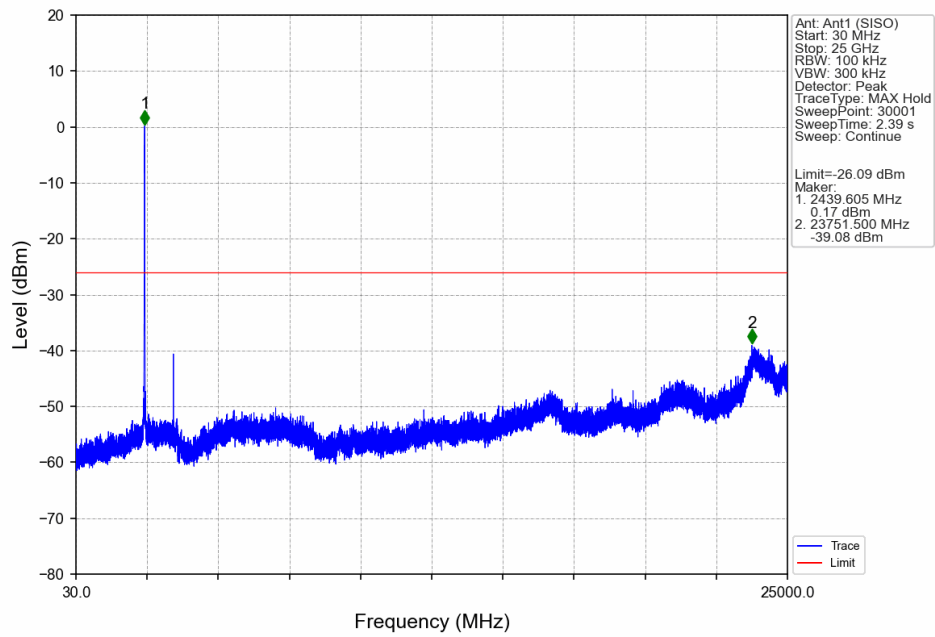
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



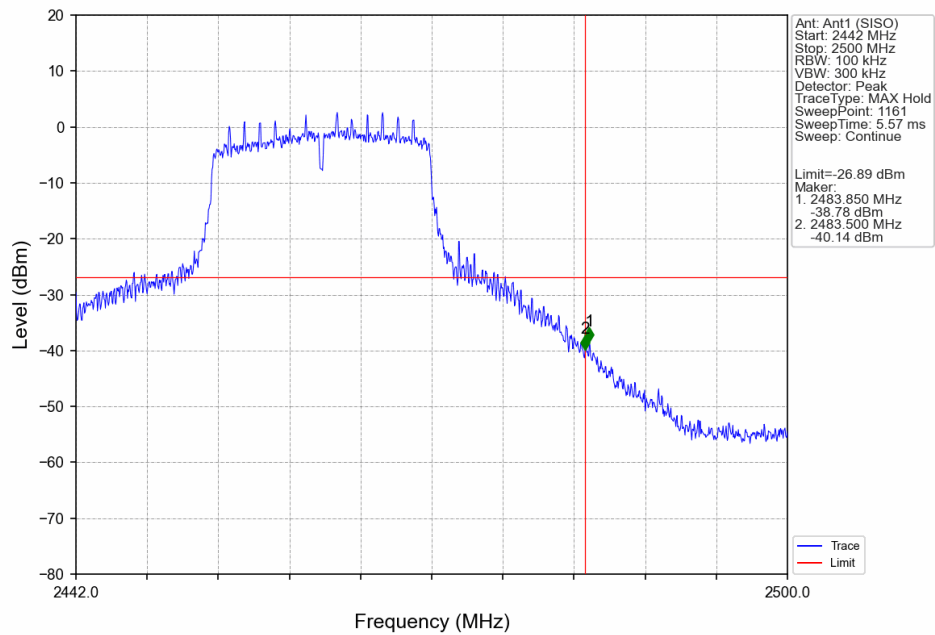
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



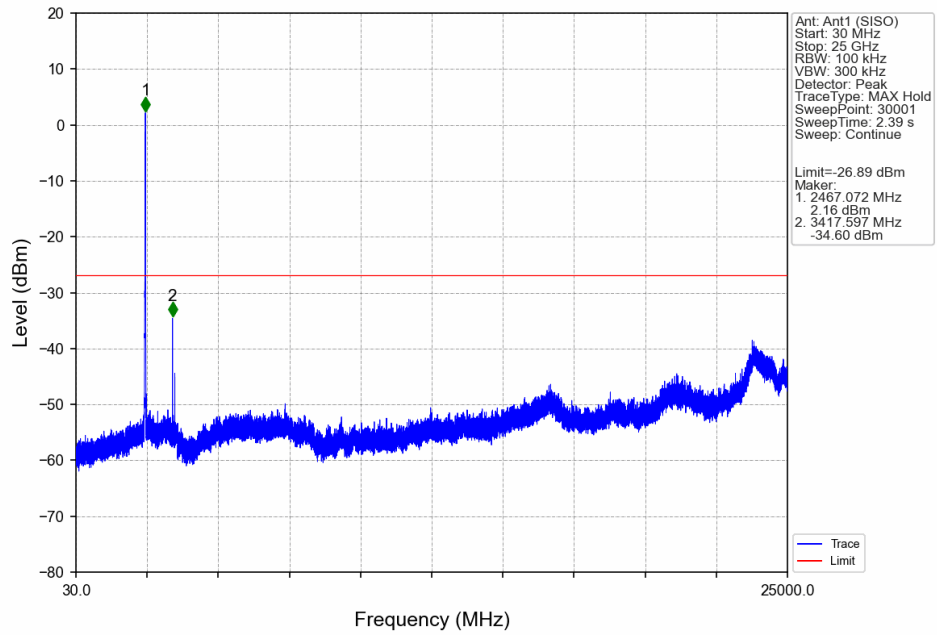
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



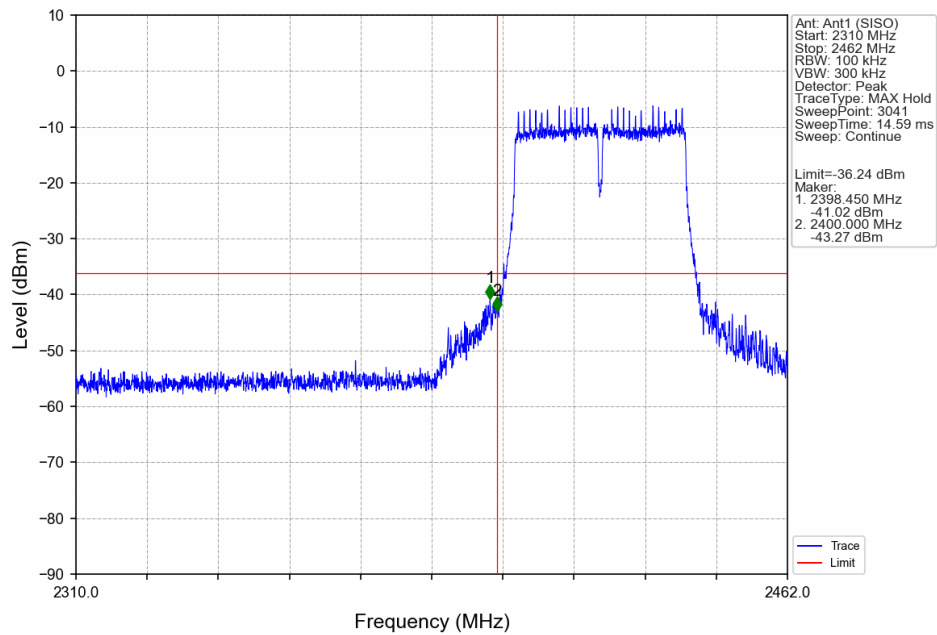
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



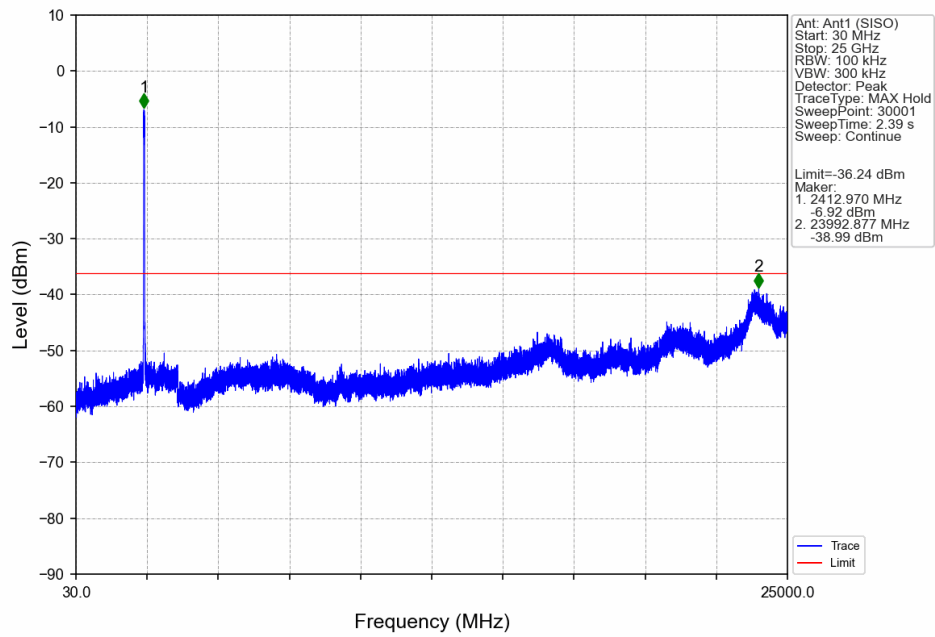
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



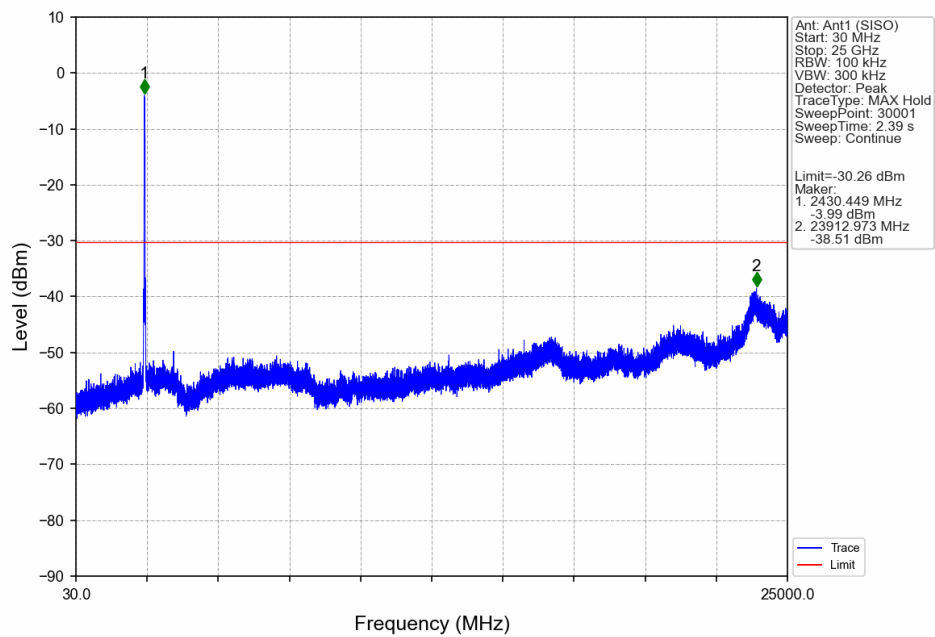
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



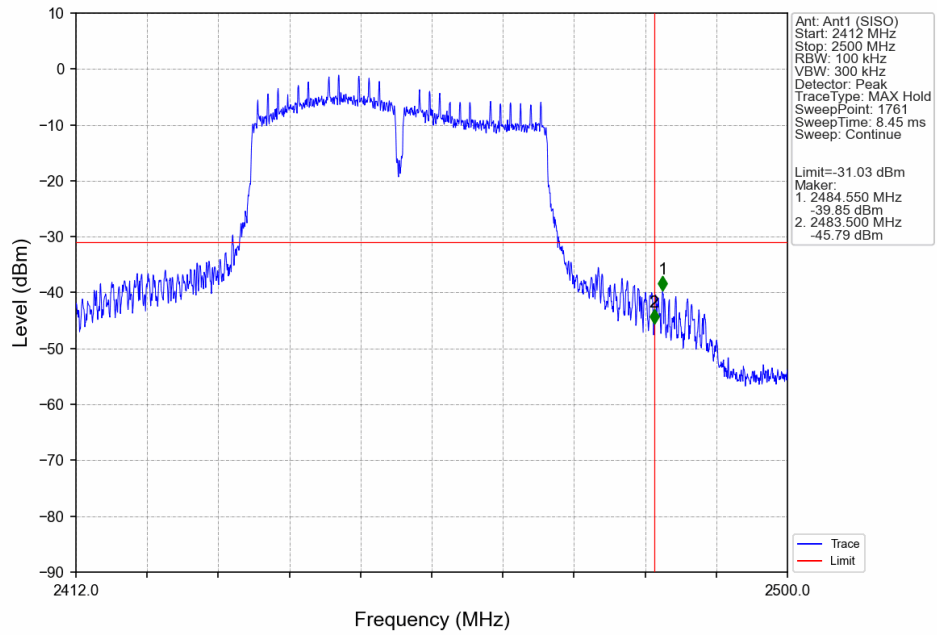
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

