



Shenzhen CTL Testing Technology Co., Ltd.

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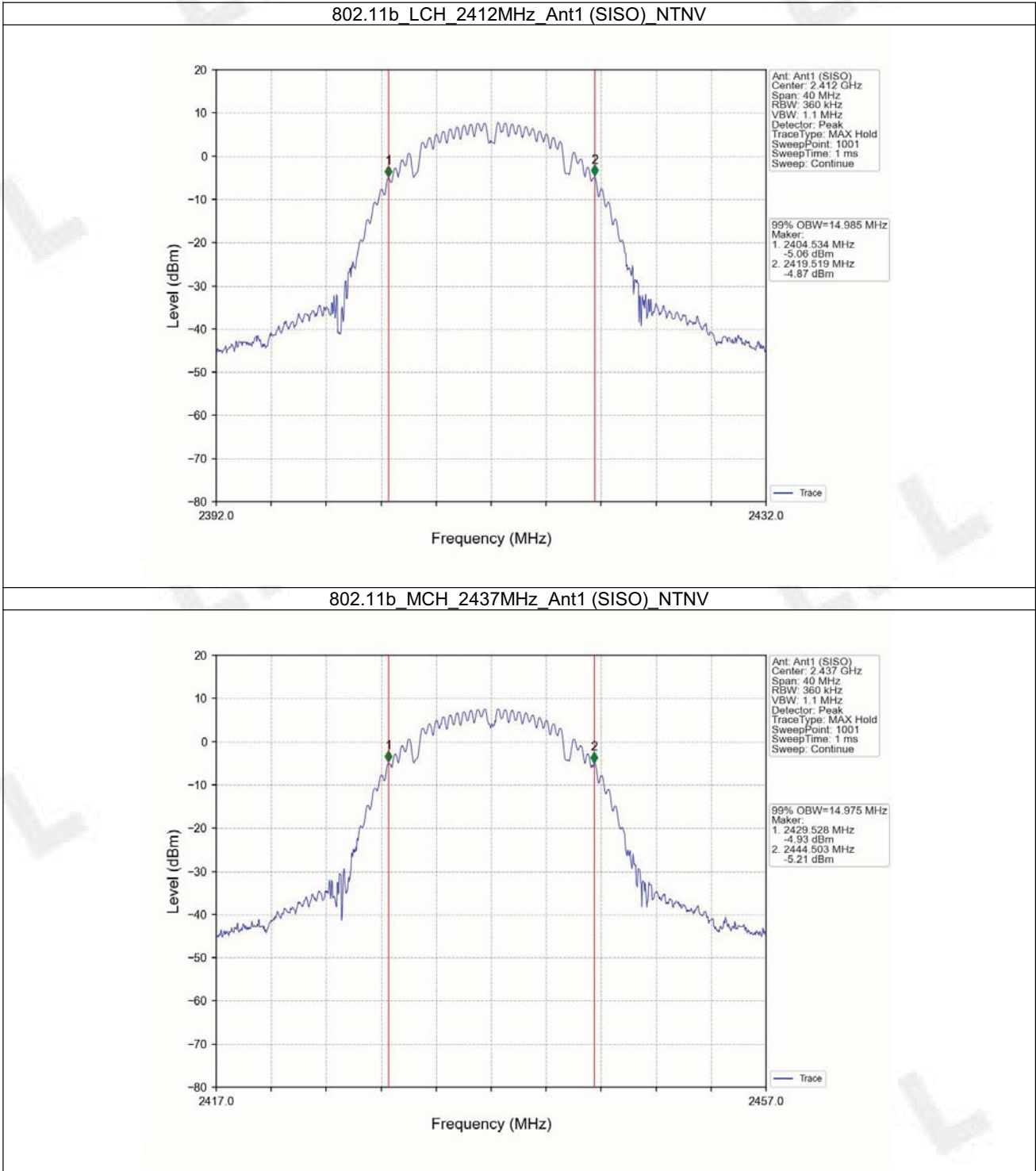
1. Bandwidth

1.1 OBW

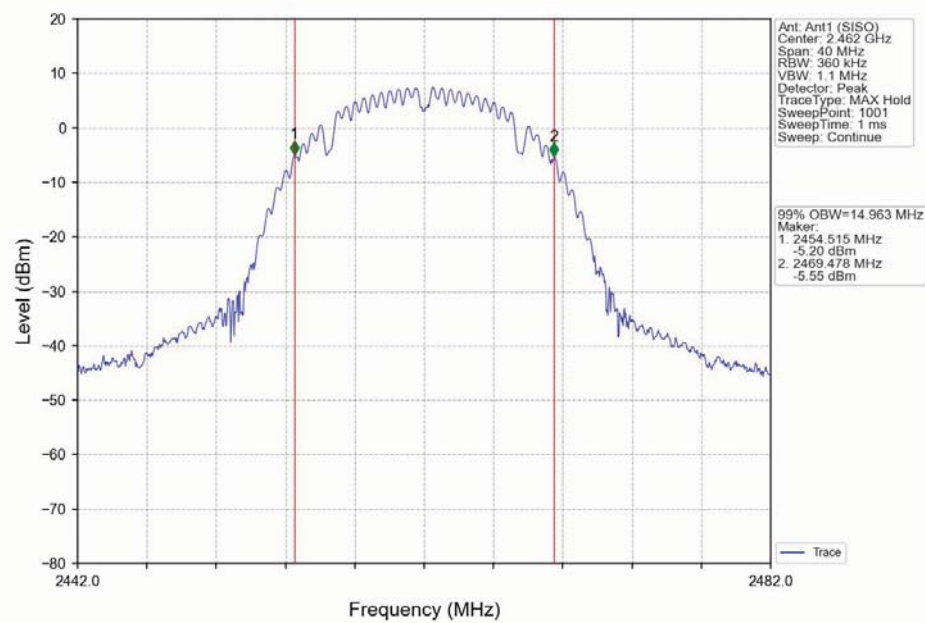
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.985	Pass
		2437	1	14.975	Pass
		2462	1	14.963	Pass
802.11g	SISO	2412	1	17.575	Pass
		2437	1	17.495	Pass
		2462	1	17.565	Pass
802.11n (HT20)	SISO	2412	1	18.394	Pass
		2437	1	18.262	Pass
		2462	1	18.629	Pass
802.11n (HT40)	SISO	2422	1	36.719	Pass
		2437	1	36.451	Pass
		2452	1	36.679	Pass

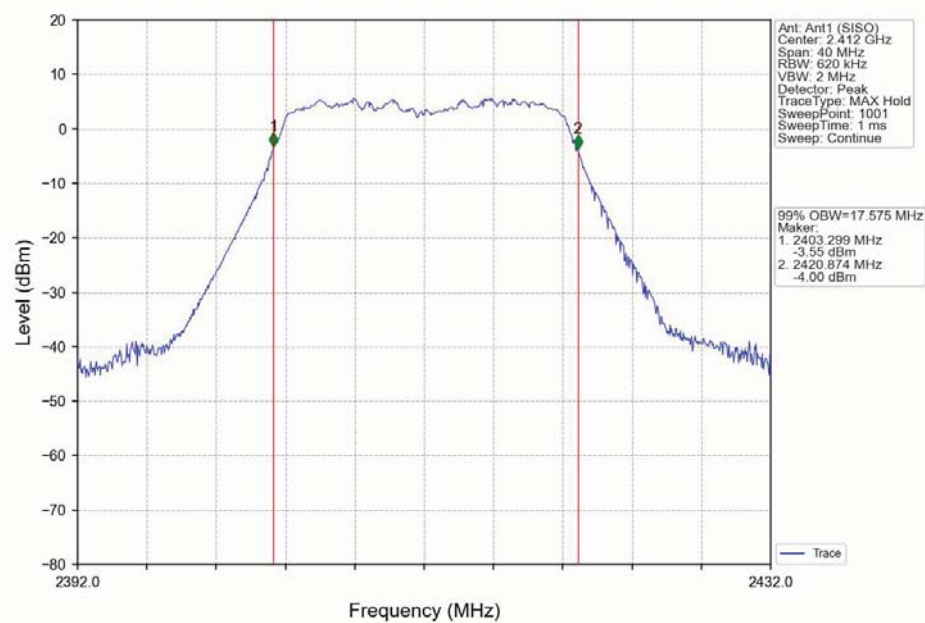
1.1.2 Test Graph



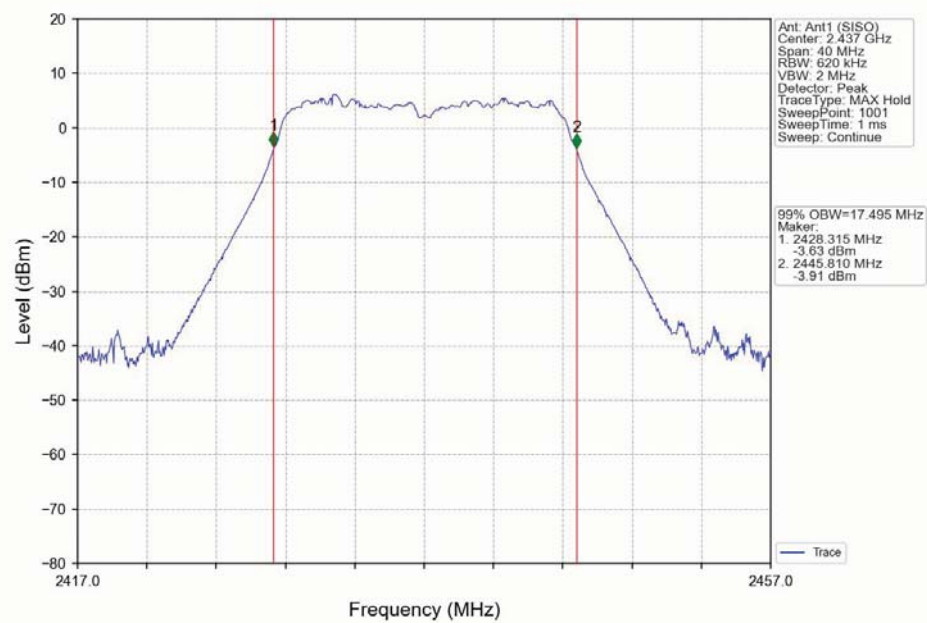
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



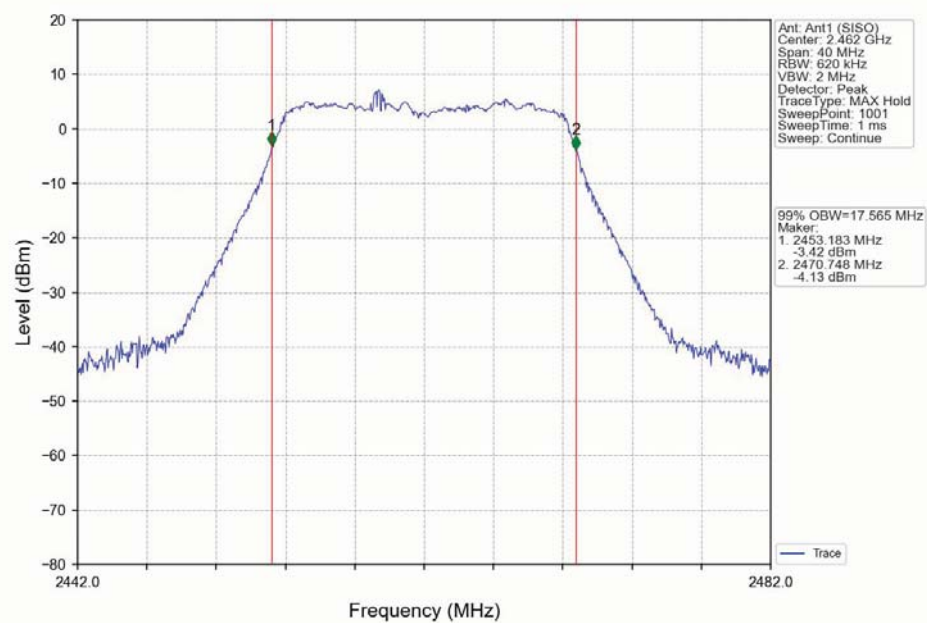
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



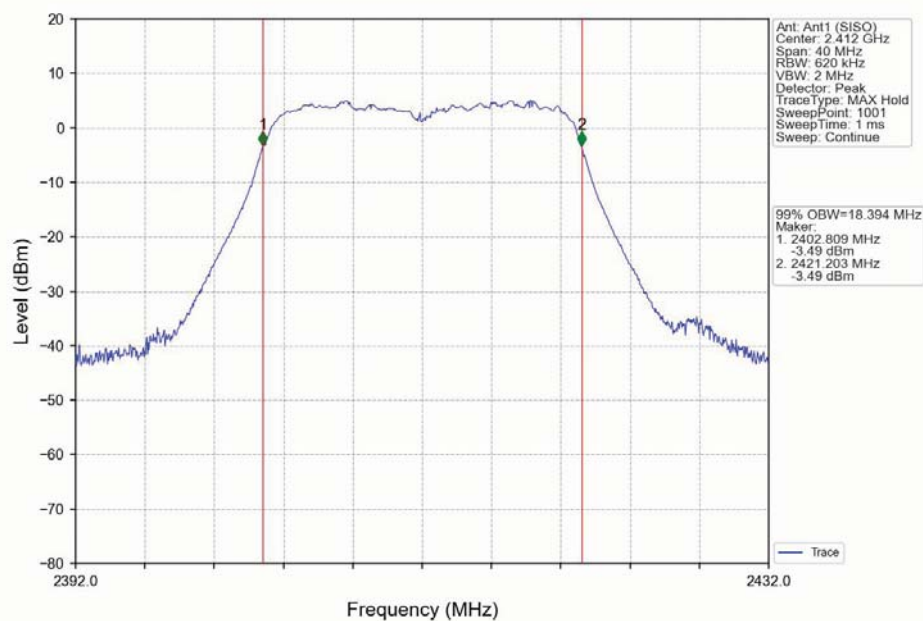
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



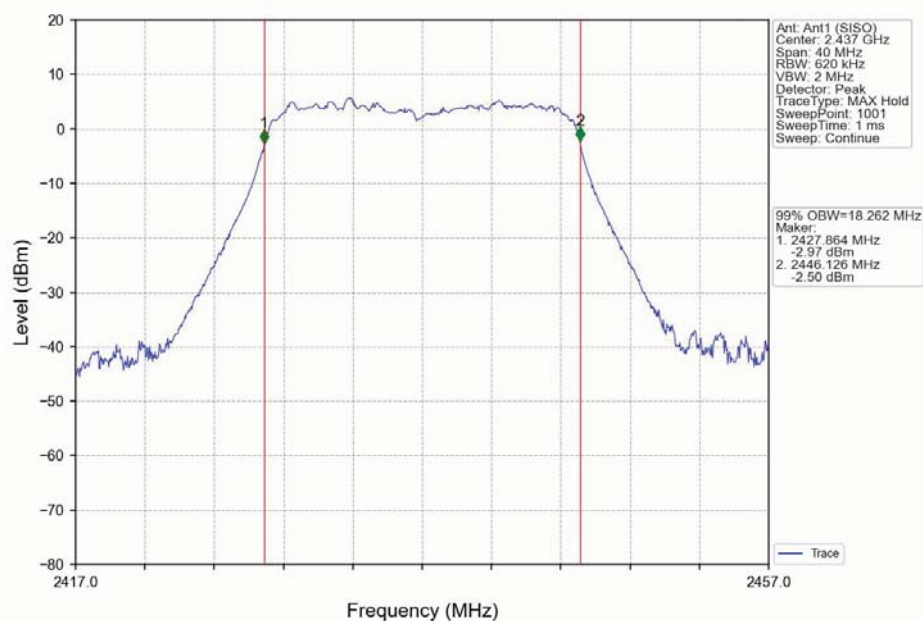
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



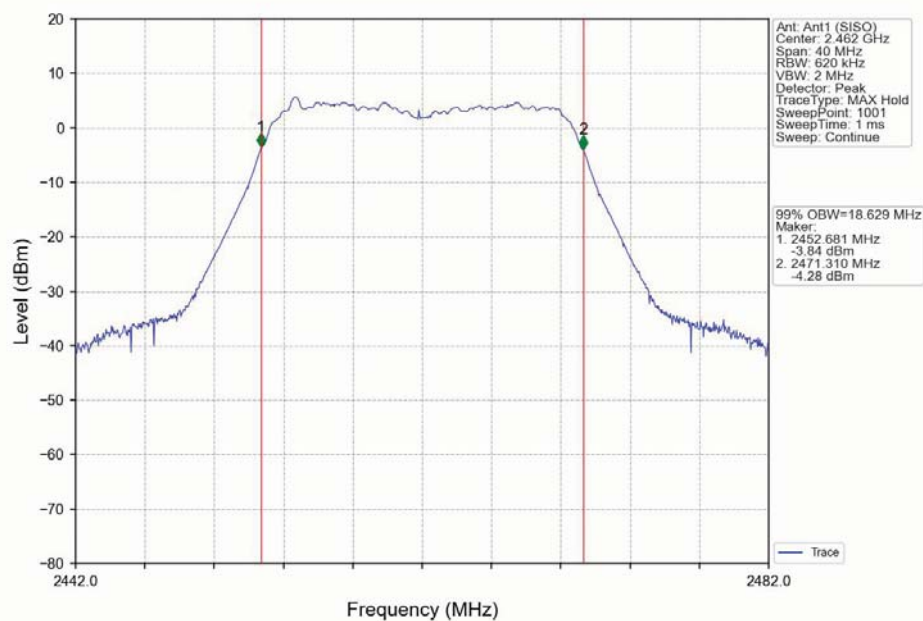
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



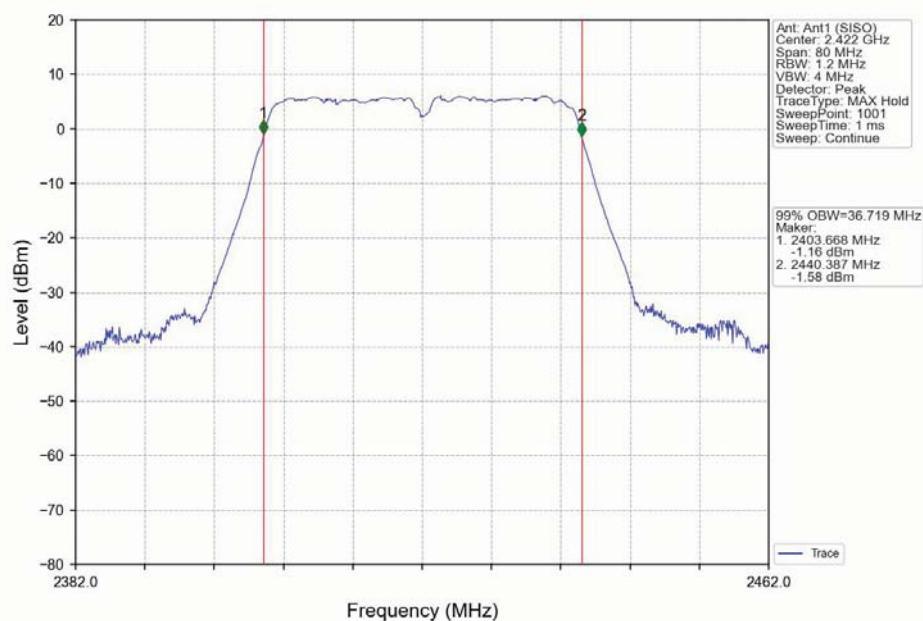
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



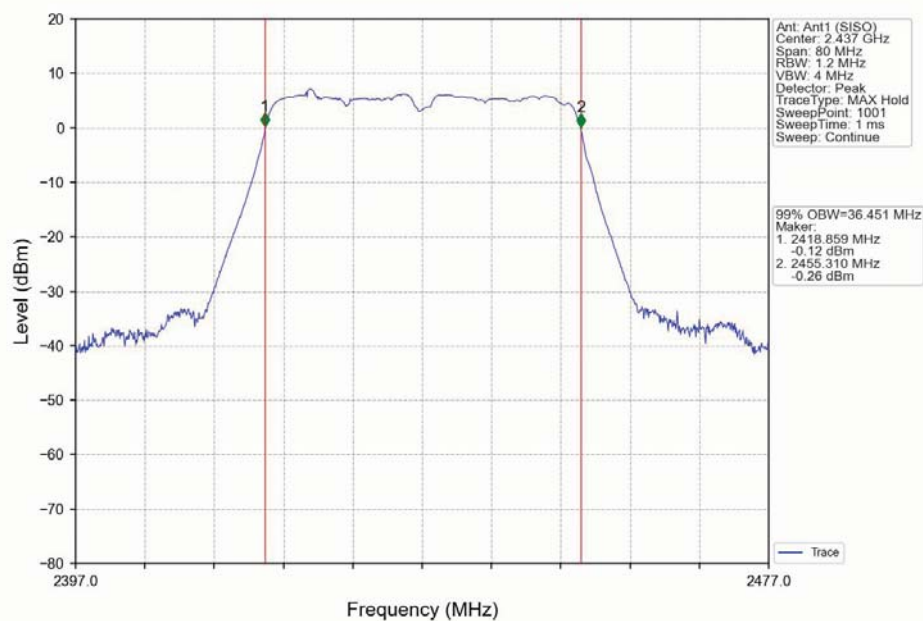
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



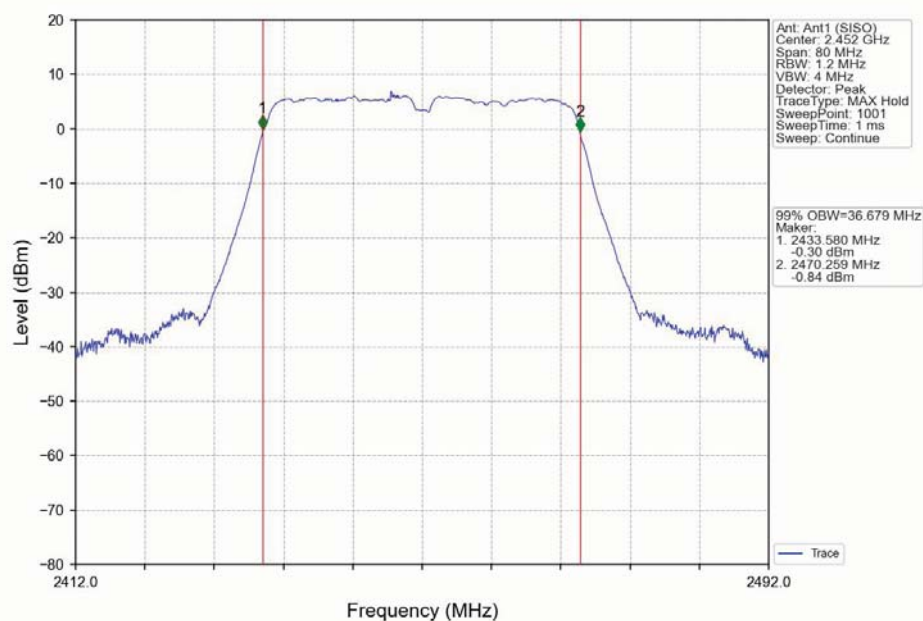
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

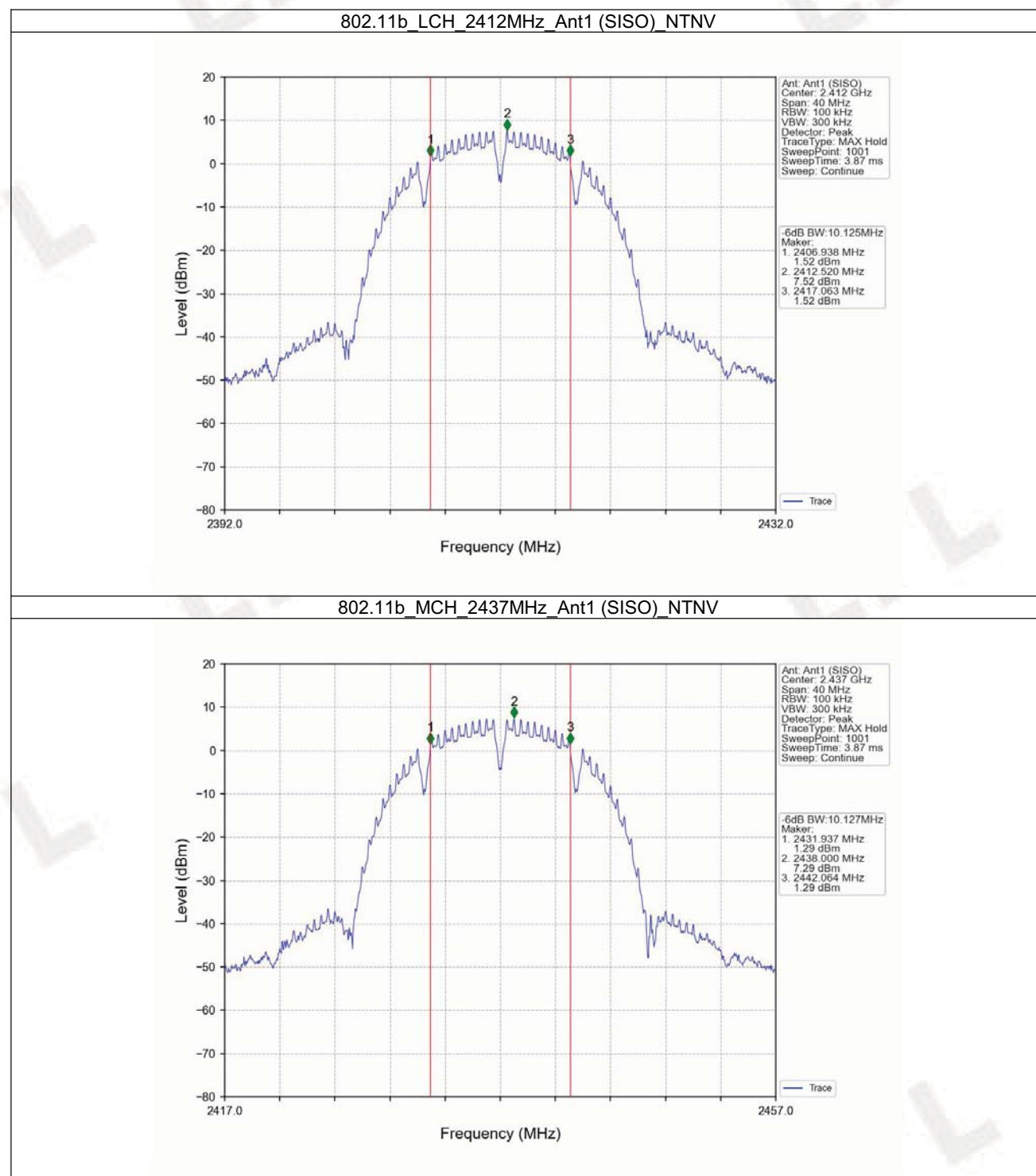


1.2 6dB BW

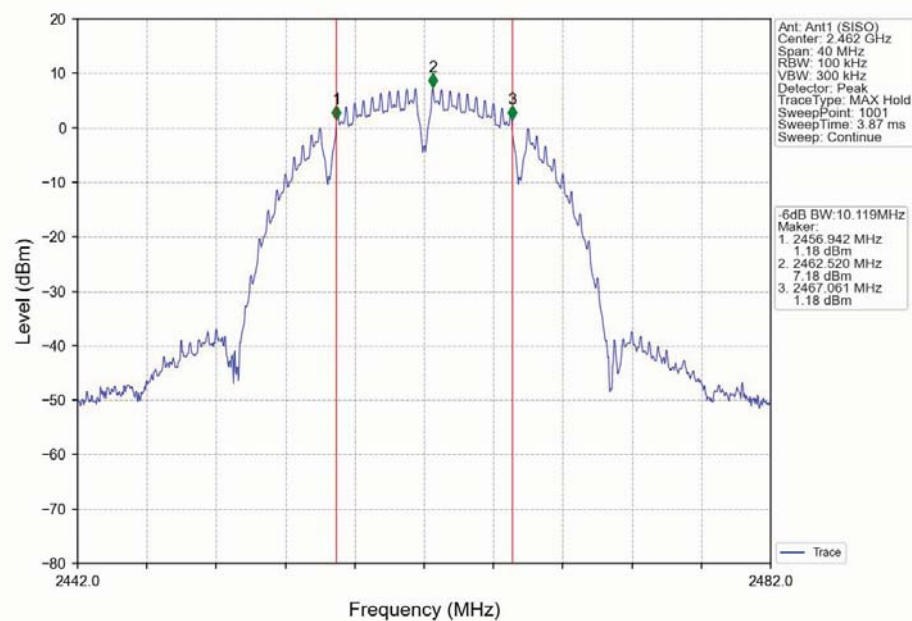
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.125	≥ 0.5	Pass
		2437	1	10.127	≥ 0.5	Pass
		2462	1	10.119	≥ 0.5	Pass
802.11g	SISO	2412	1	16.363	≥ 0.5	Pass
		2437	1	16.356	≥ 0.5	Pass
		2462	1	16.360	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.092	≥ 0.5	Pass
		2437	1	17.077	≥ 0.5	Pass
		2462	1	17.068	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.578	≥ 0.5	Pass
		2437	1	35.360	≥ 0.5	Pass
		2452	1	35.391	≥ 0.5	Pass

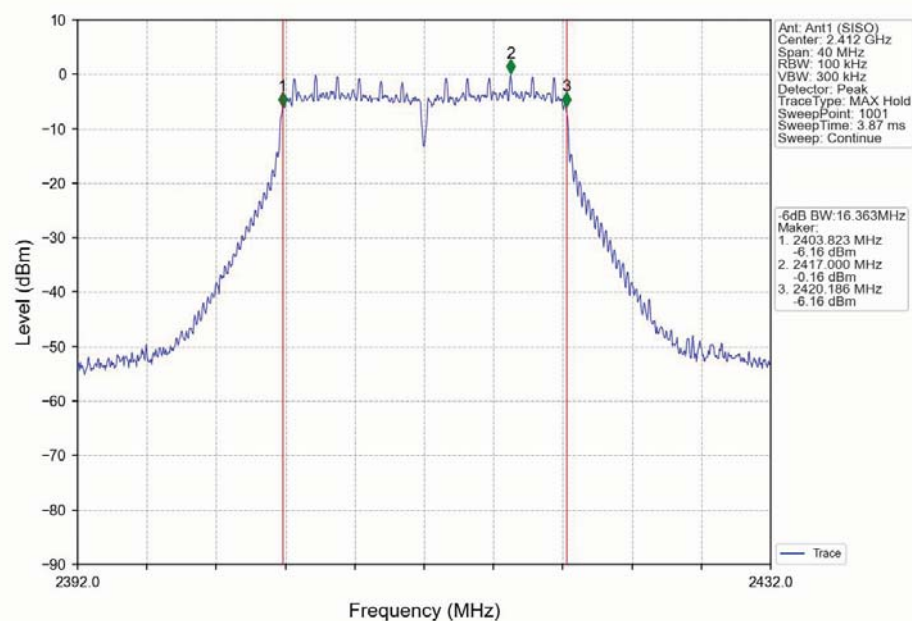
1.2.2 Test Graph



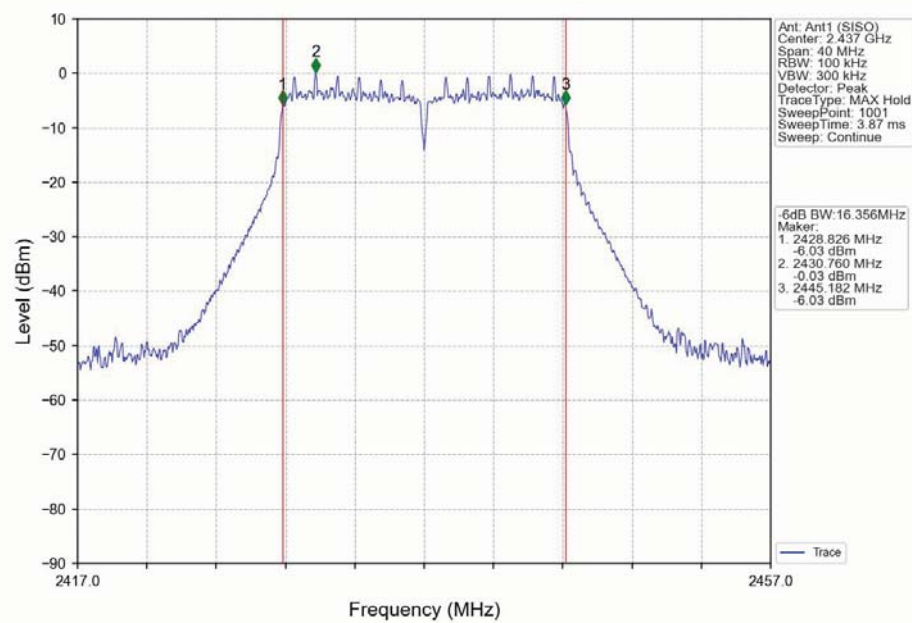
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



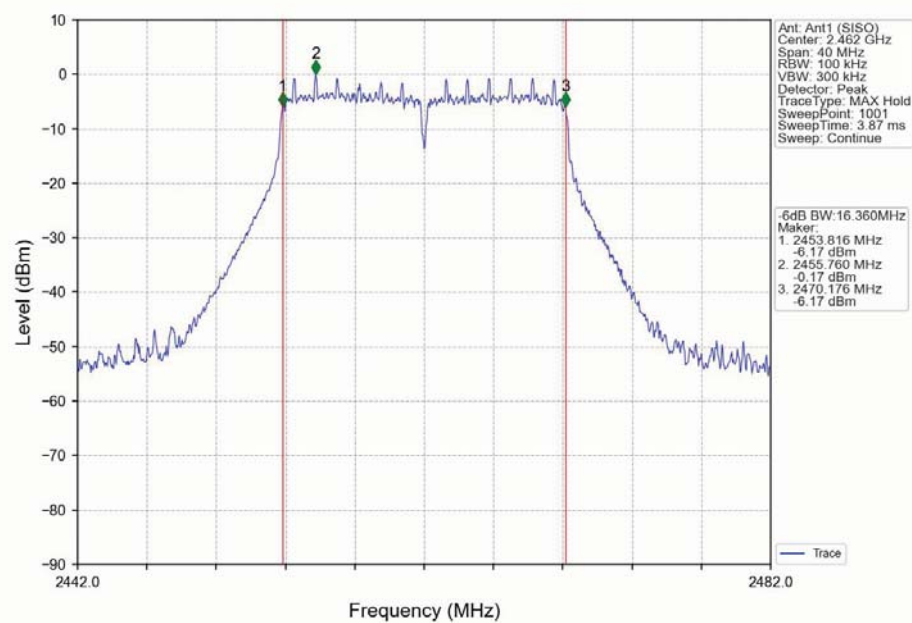
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



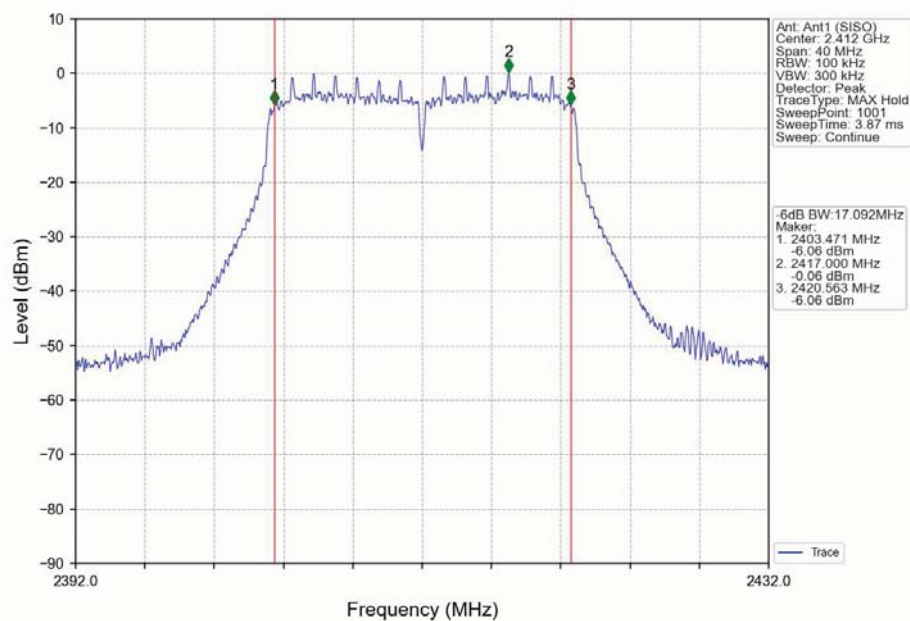
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



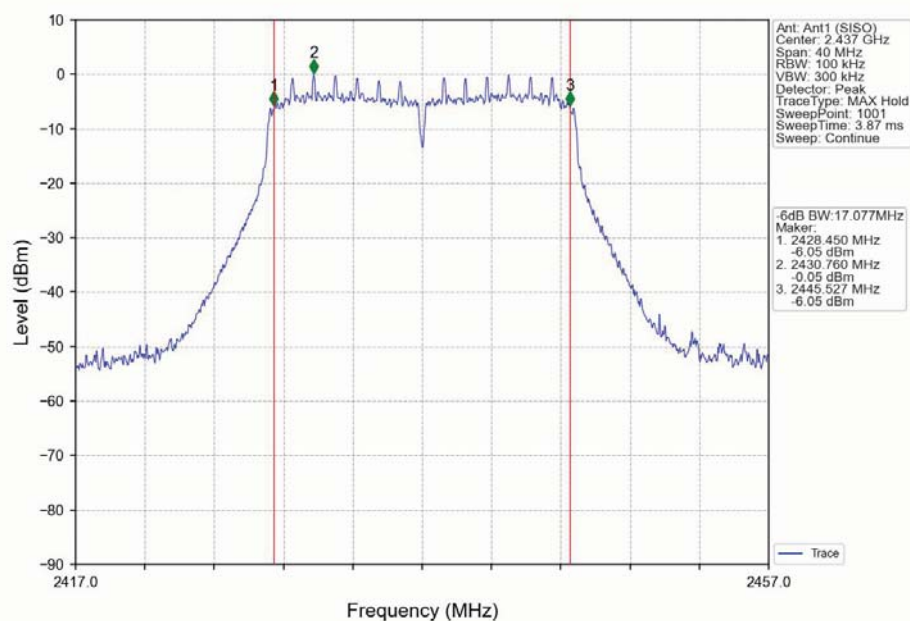
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



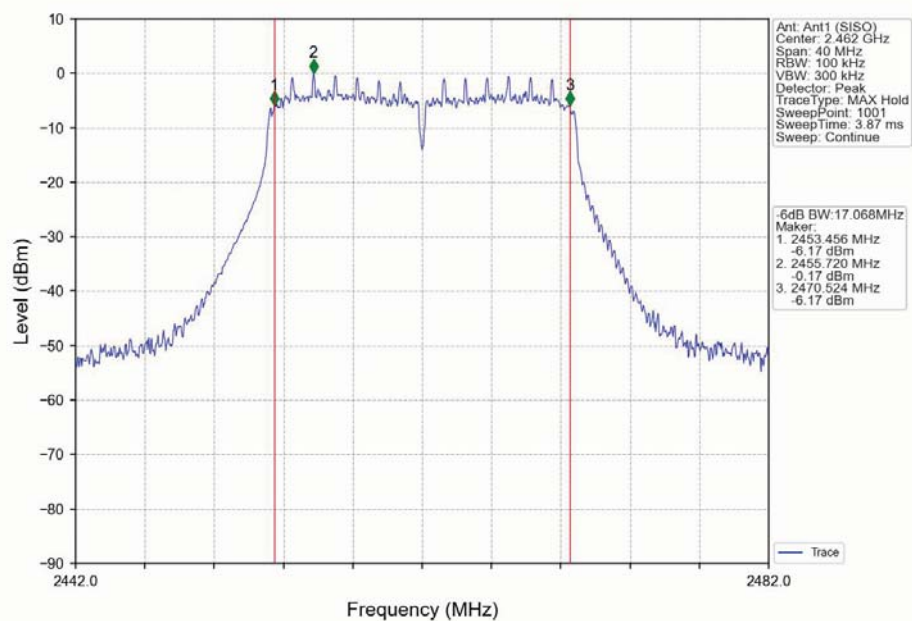
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



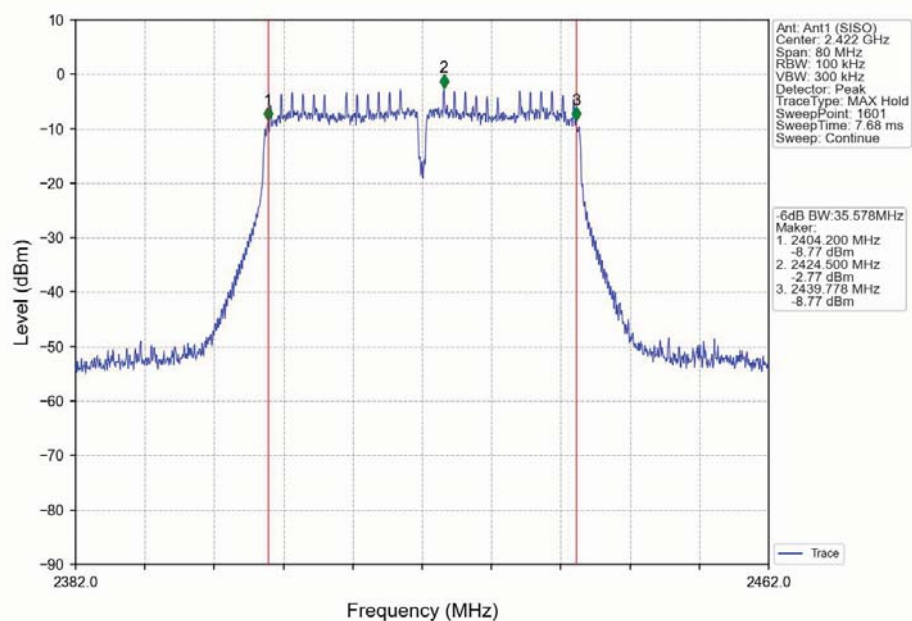
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



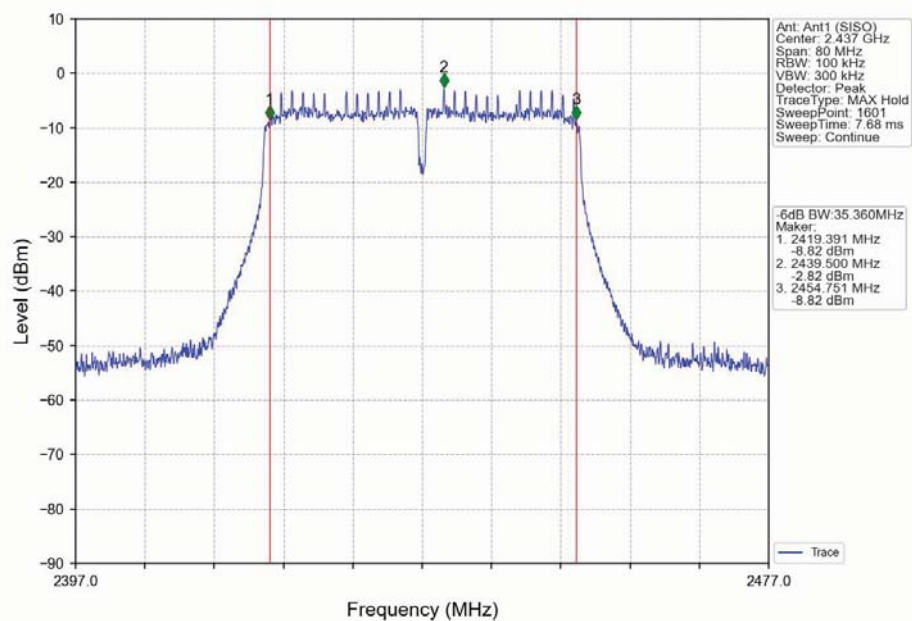
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



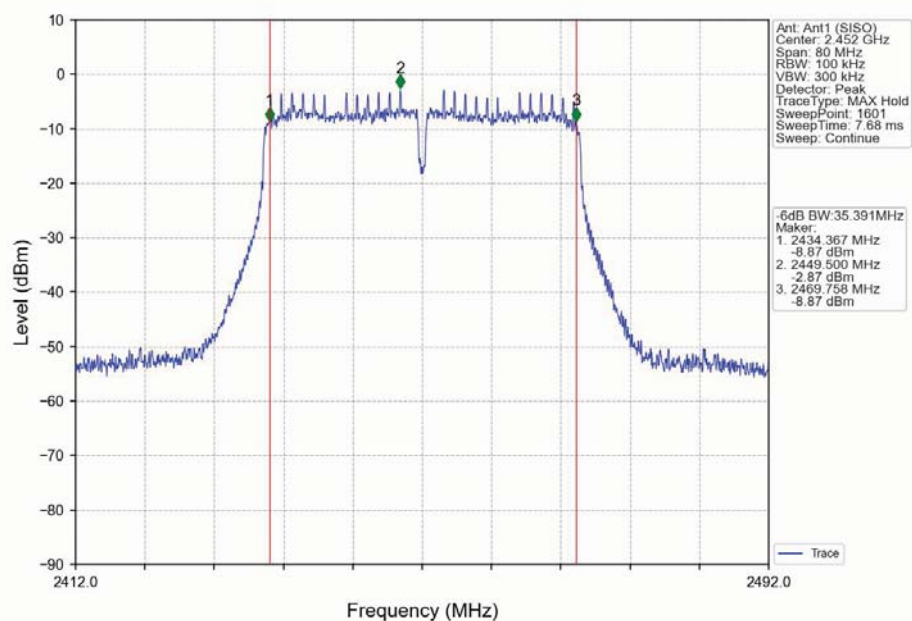
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Maximum Conducted Output Power

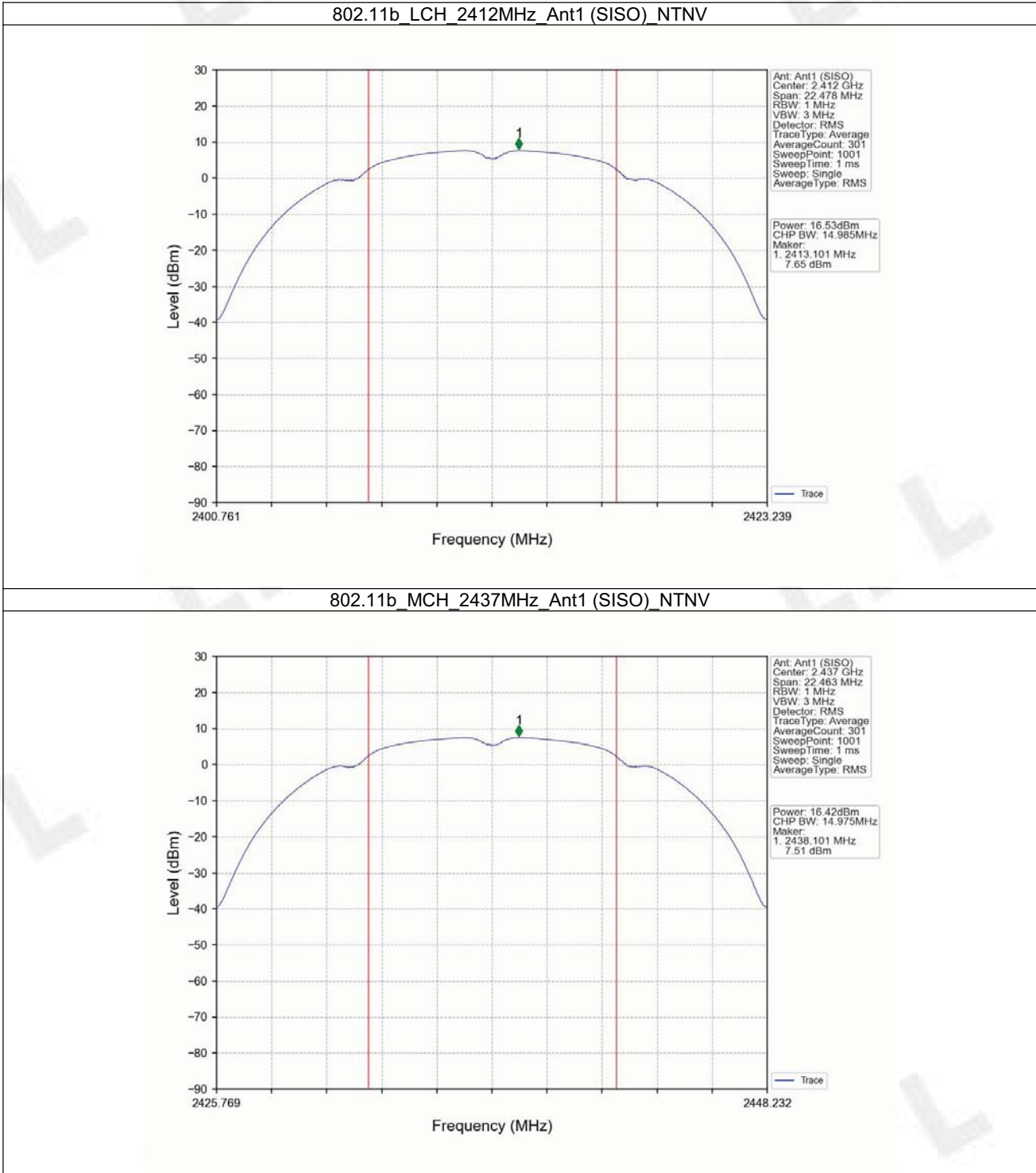
2.1 Power

2.1.1 Test Result

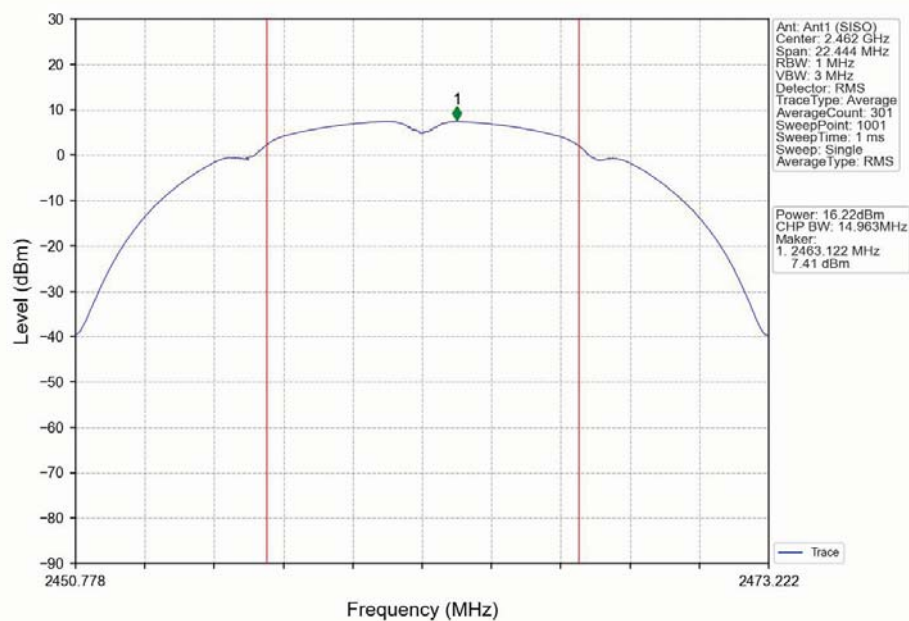
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit	
802.11b	SISO	2412	16.53	0.00	16.53	<=30	Pass
		2437	16.42	0.00	16.42	<=30	Pass
		2462	16.22	0.00	16.22	<=30	Pass
802.11g	SISO	2412	11.68	0.00	11.68	<=30	Pass
		2437	11.38	0.00	11.38	<=30	Pass
		2462	11.78	0.00	11.78	<=30	Pass
802.11n (HT20)	SISO	2412	11.59	0.00	11.59	<=30	Pass
		2437	11.49	0.00	11.49	<=30	Pass
		2462	11.75	0.00	11.75	<=30	Pass
802.11n (HT40)	SISO	2422	11.72	0.00	11.72	<=30	Pass
		2437	11.58	0.00	11.58	<=30	Pass
		2452	11.80	0.00	11.80	<=30	Pass

Note1: Antenna Gain: Ant1: 2.06dBi;

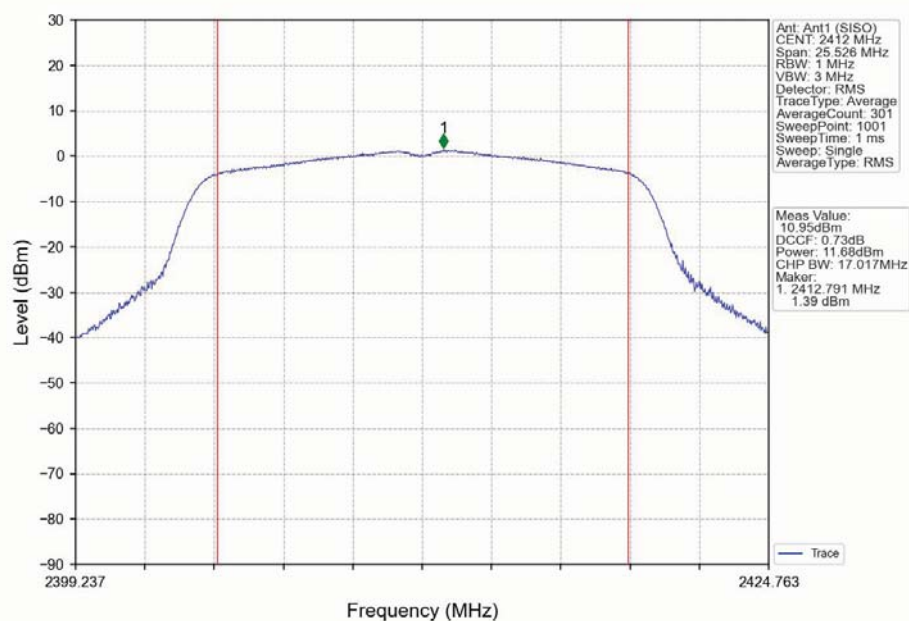
2.1.2 Test Graph



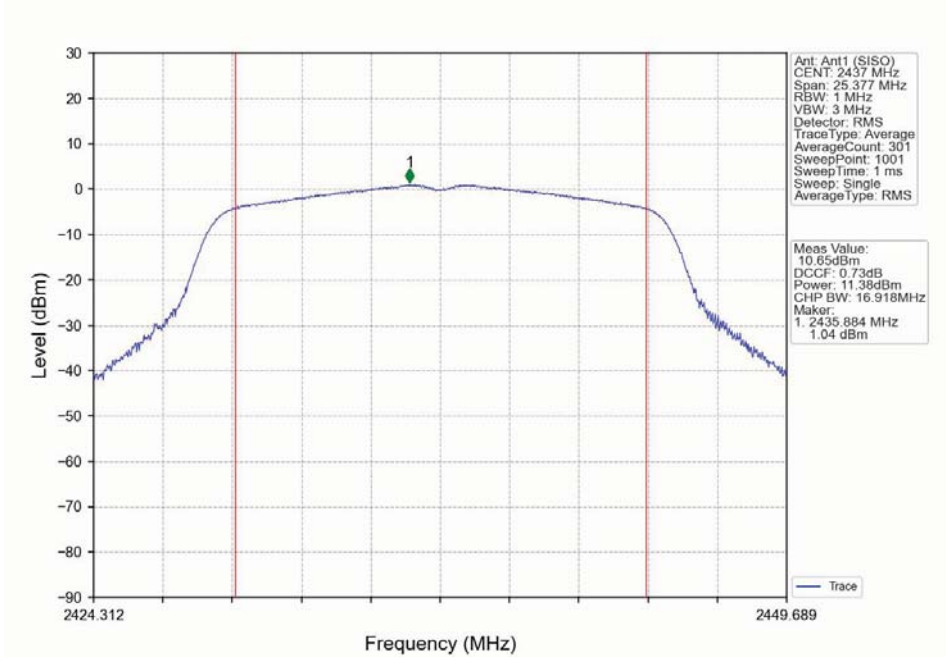
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



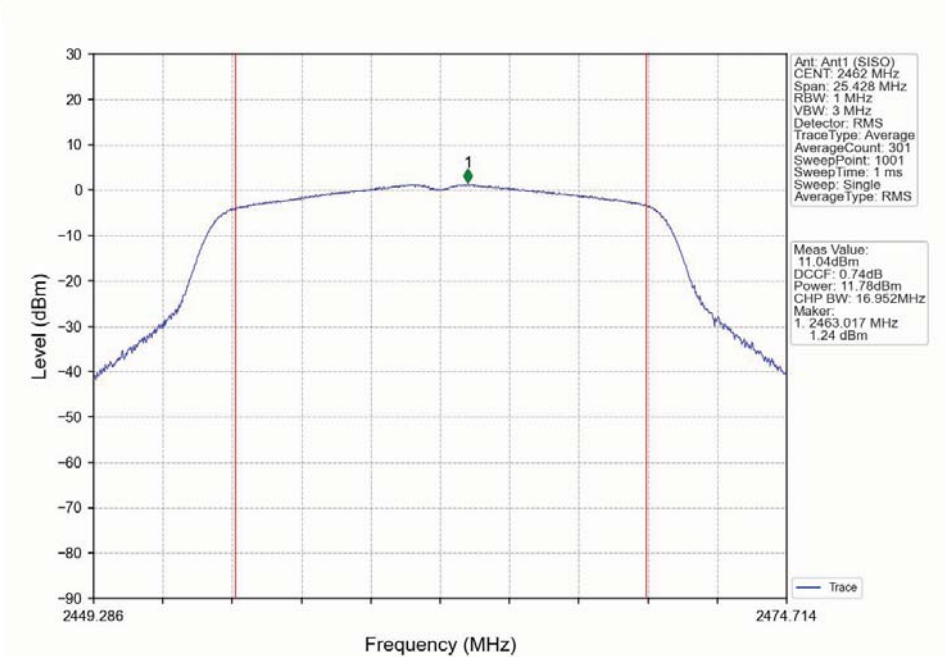
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



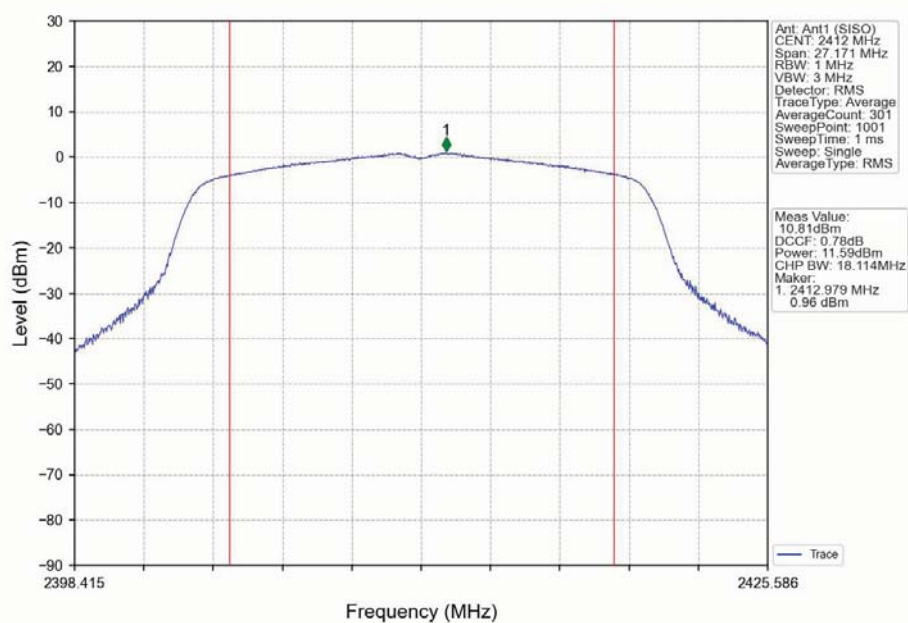
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



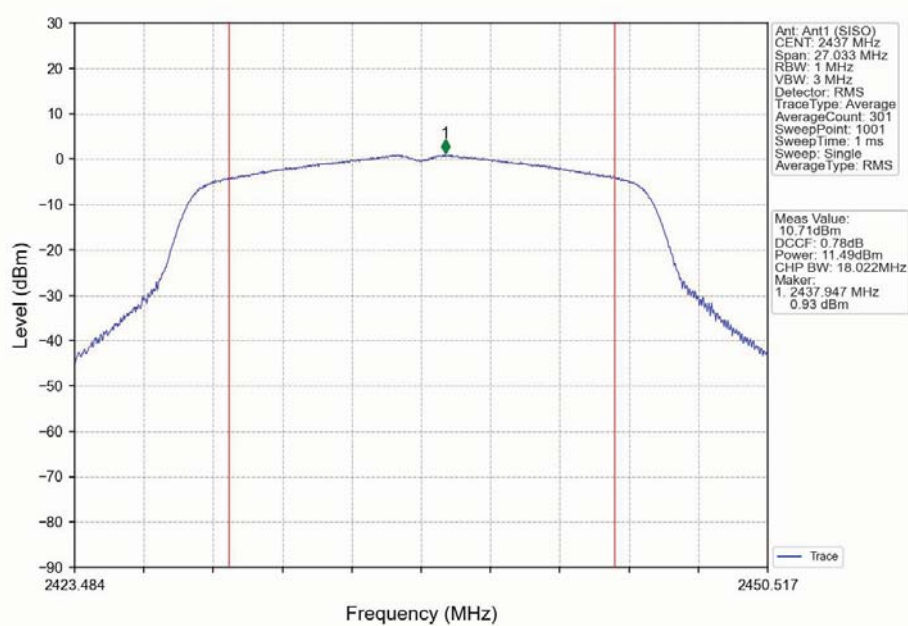
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



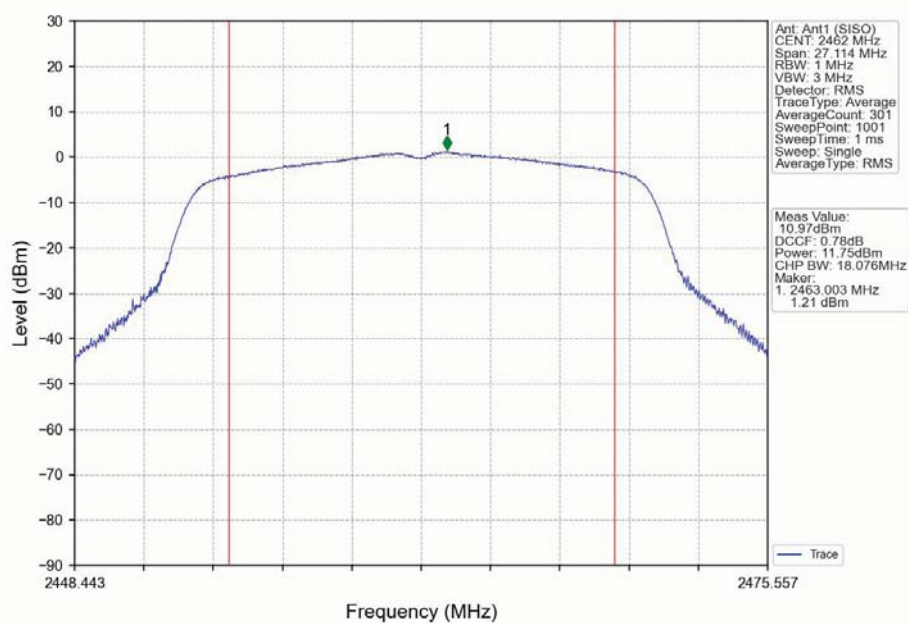
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



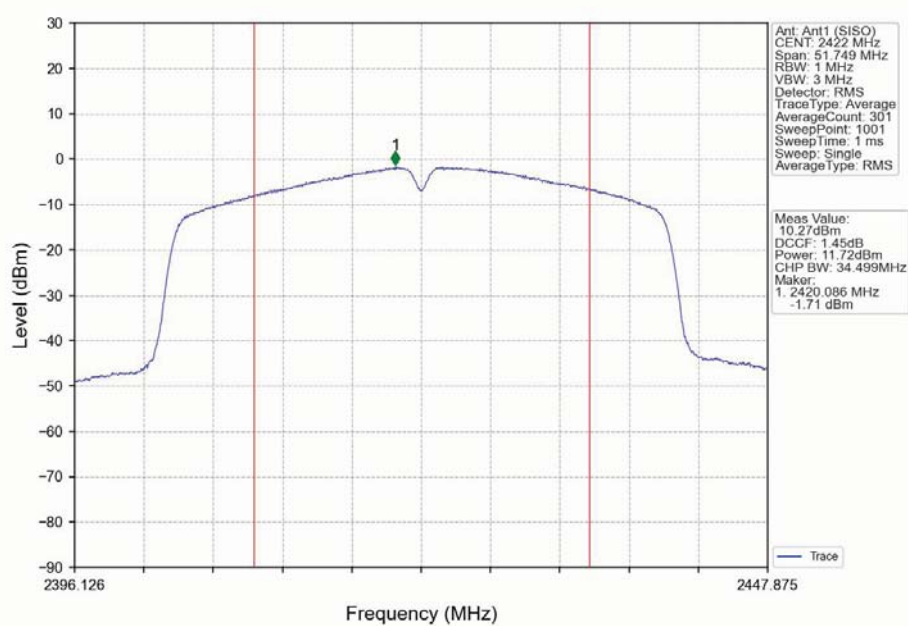
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



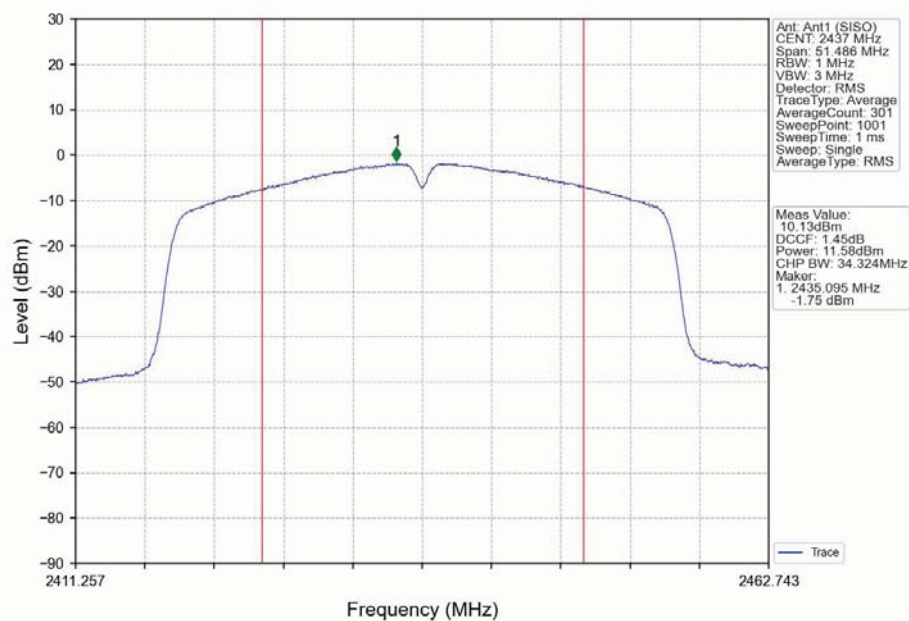
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



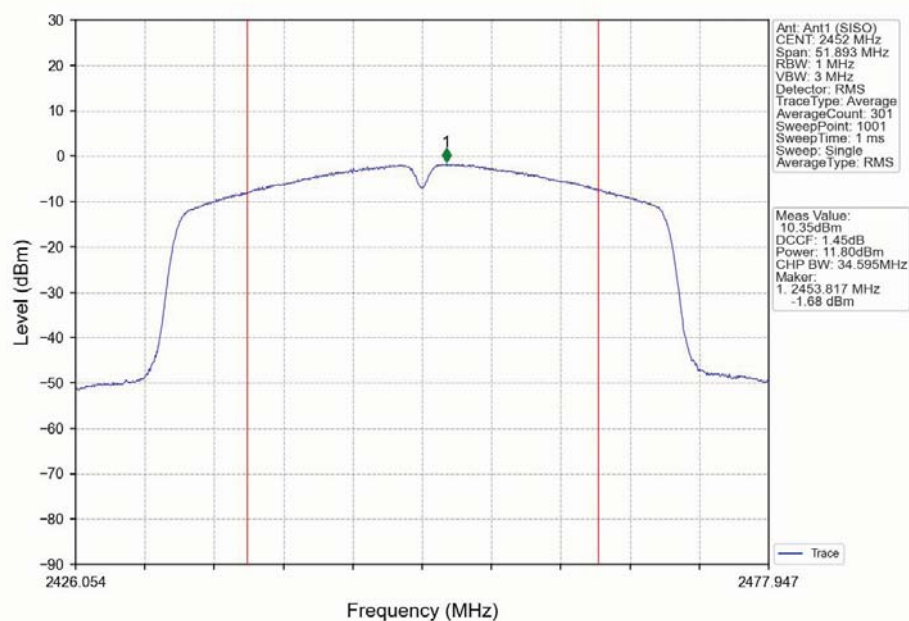
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

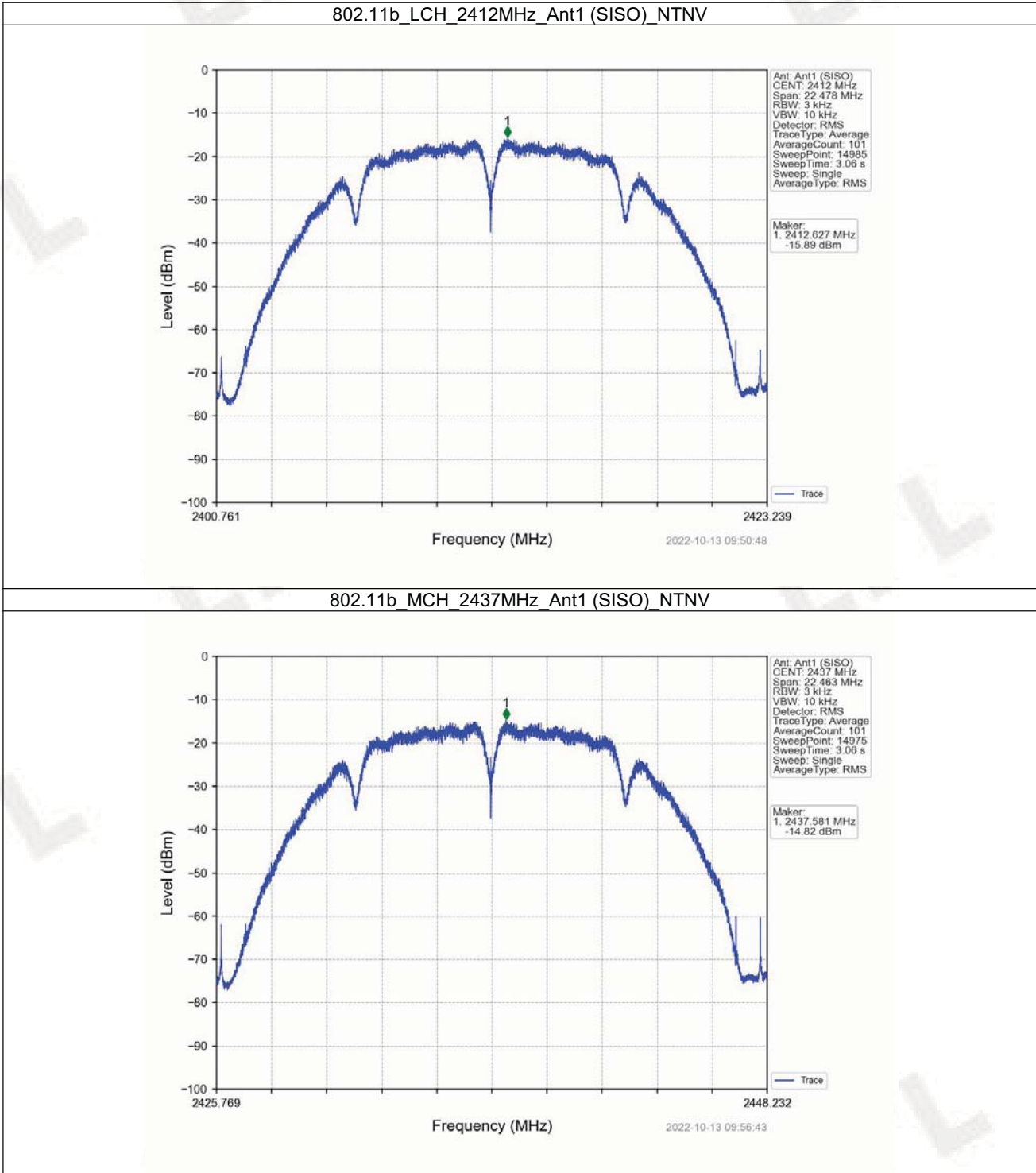


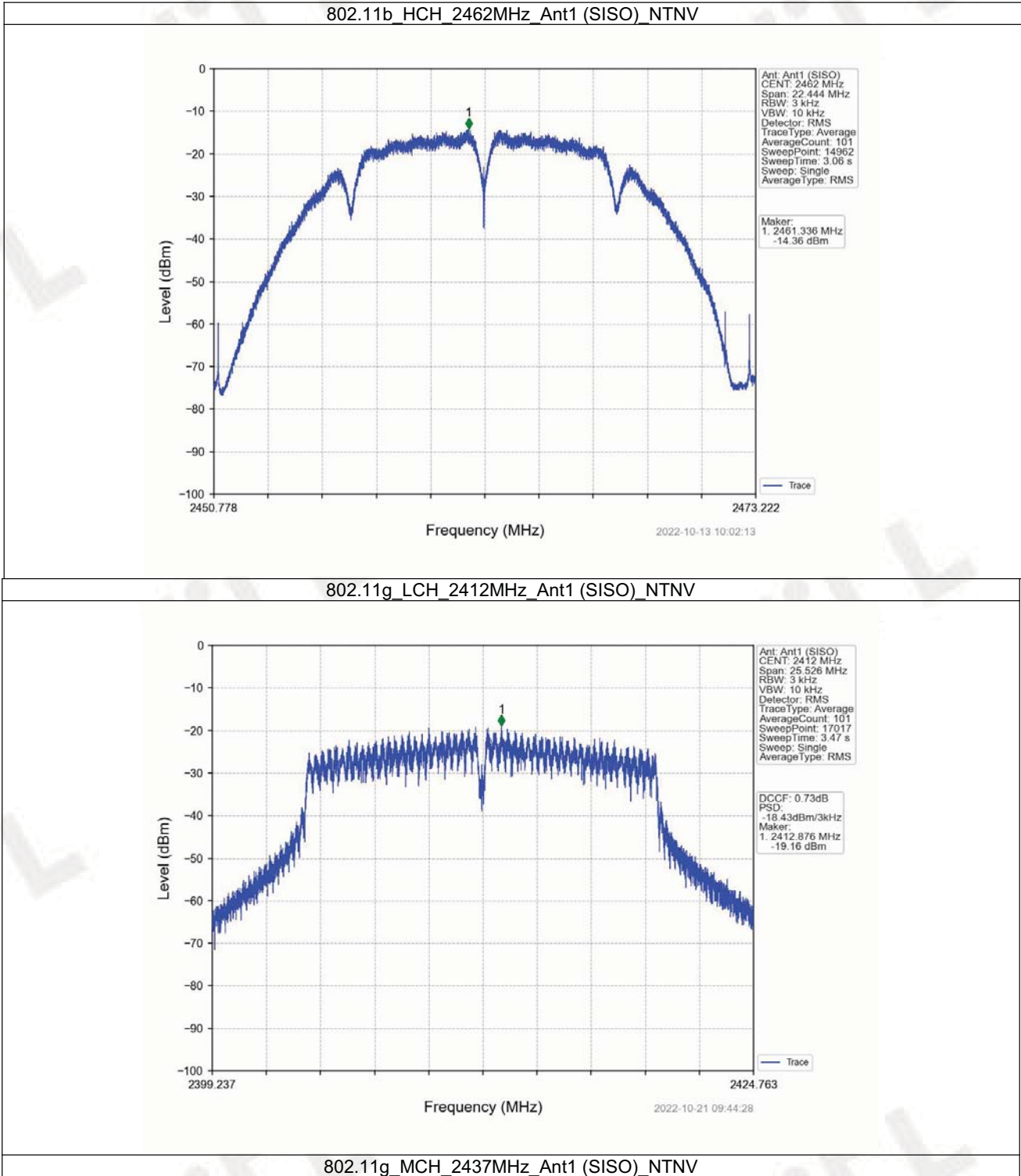
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

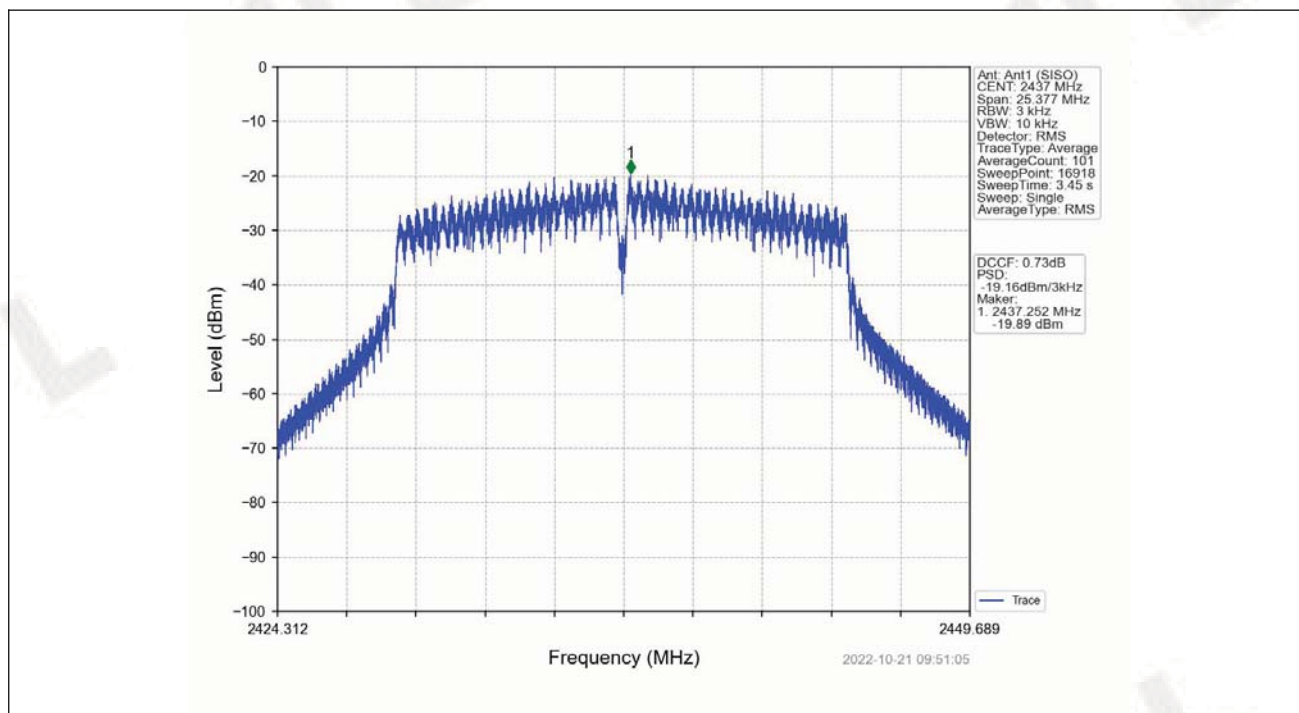


Note1: Antenna Gain: Ant1: 2.06dBi;

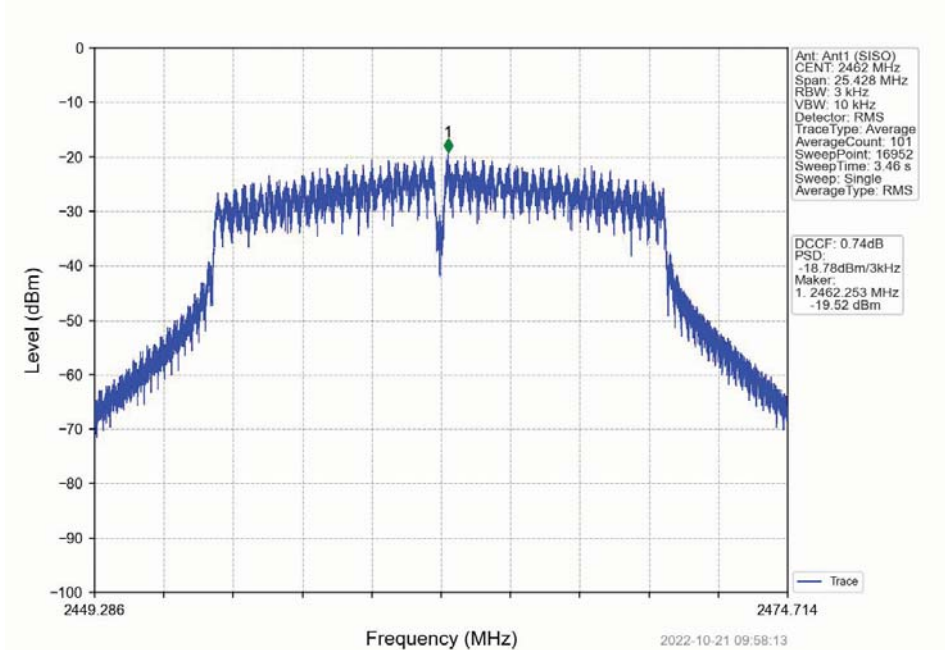
3.1.2 Test Graph



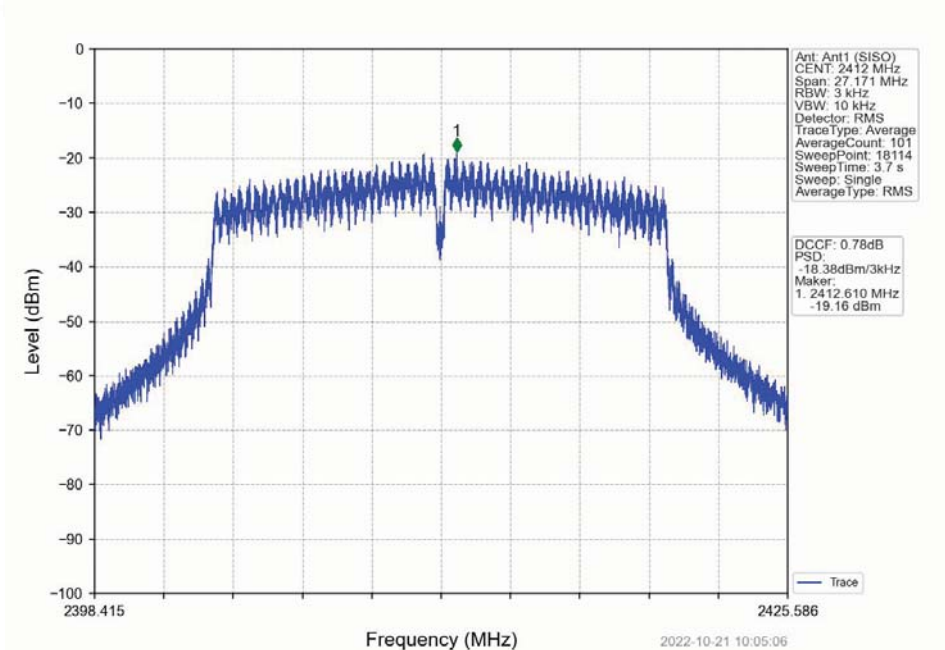




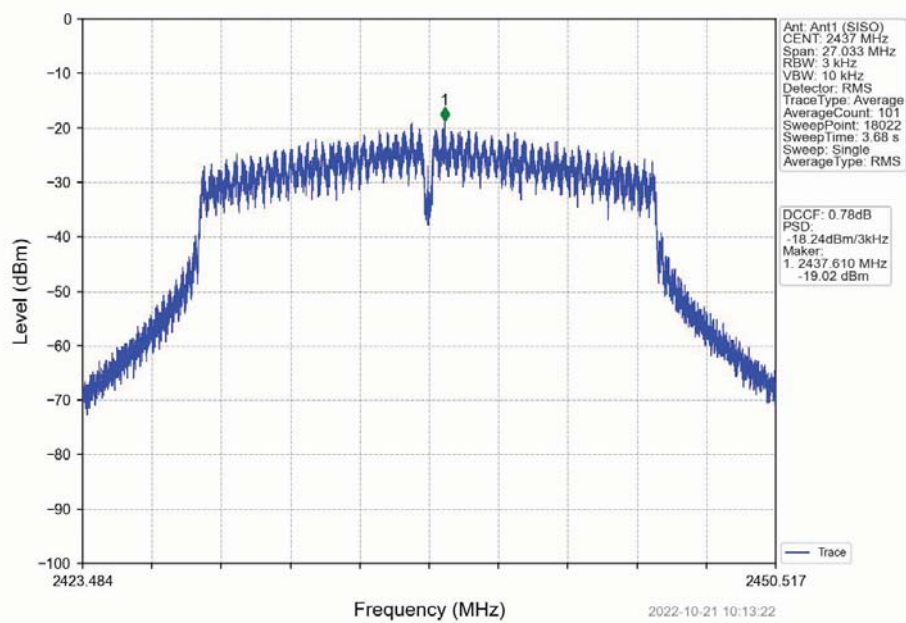
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



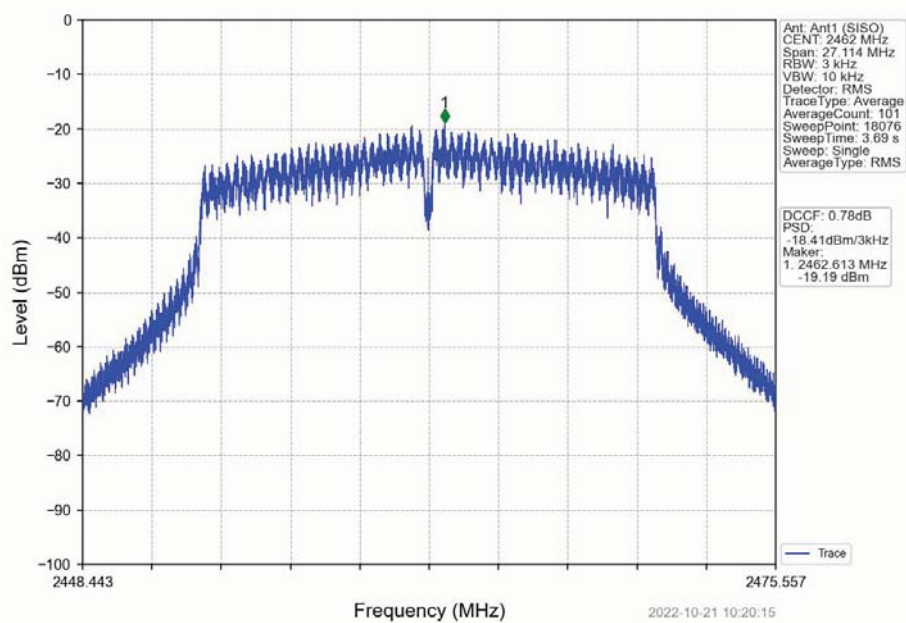
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



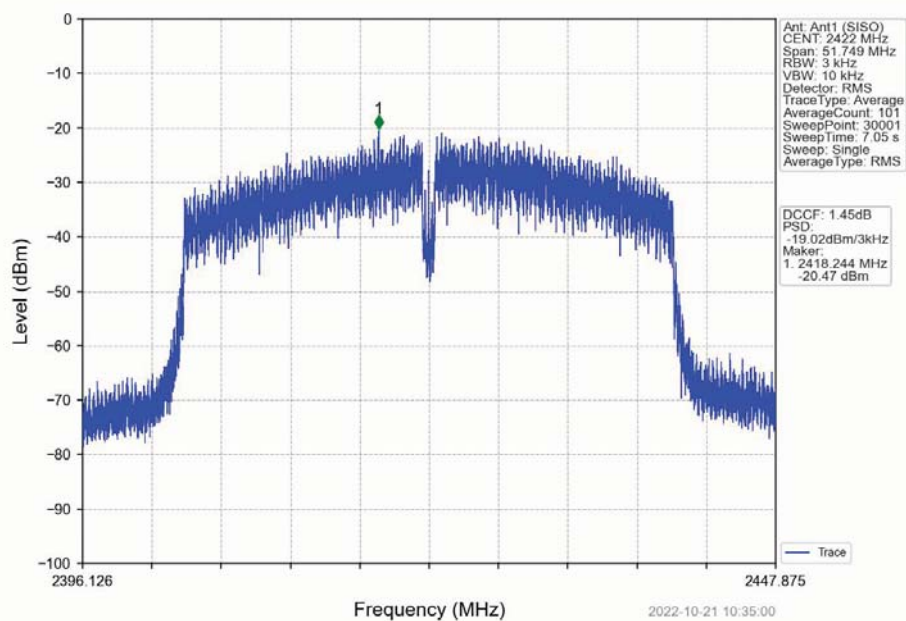
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



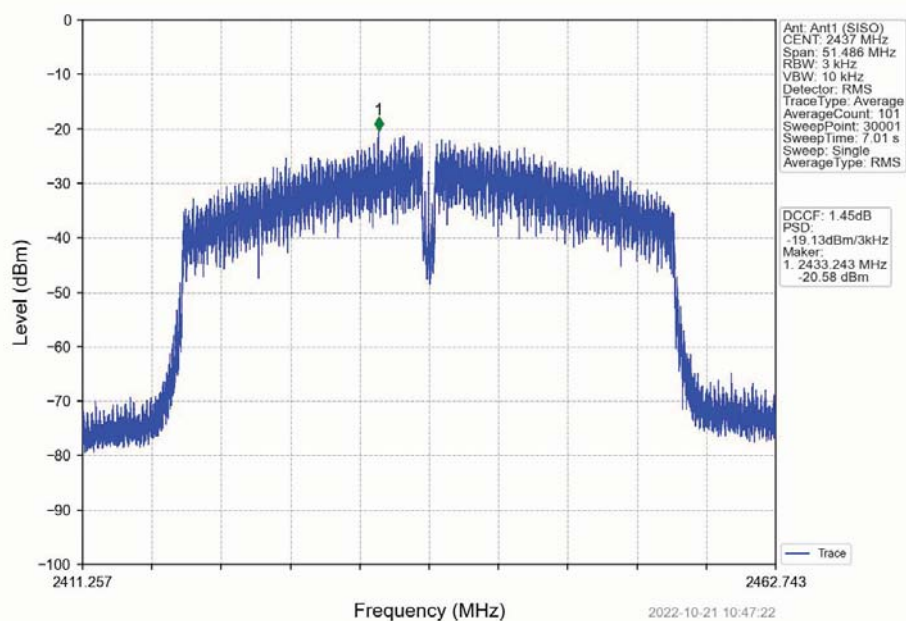
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

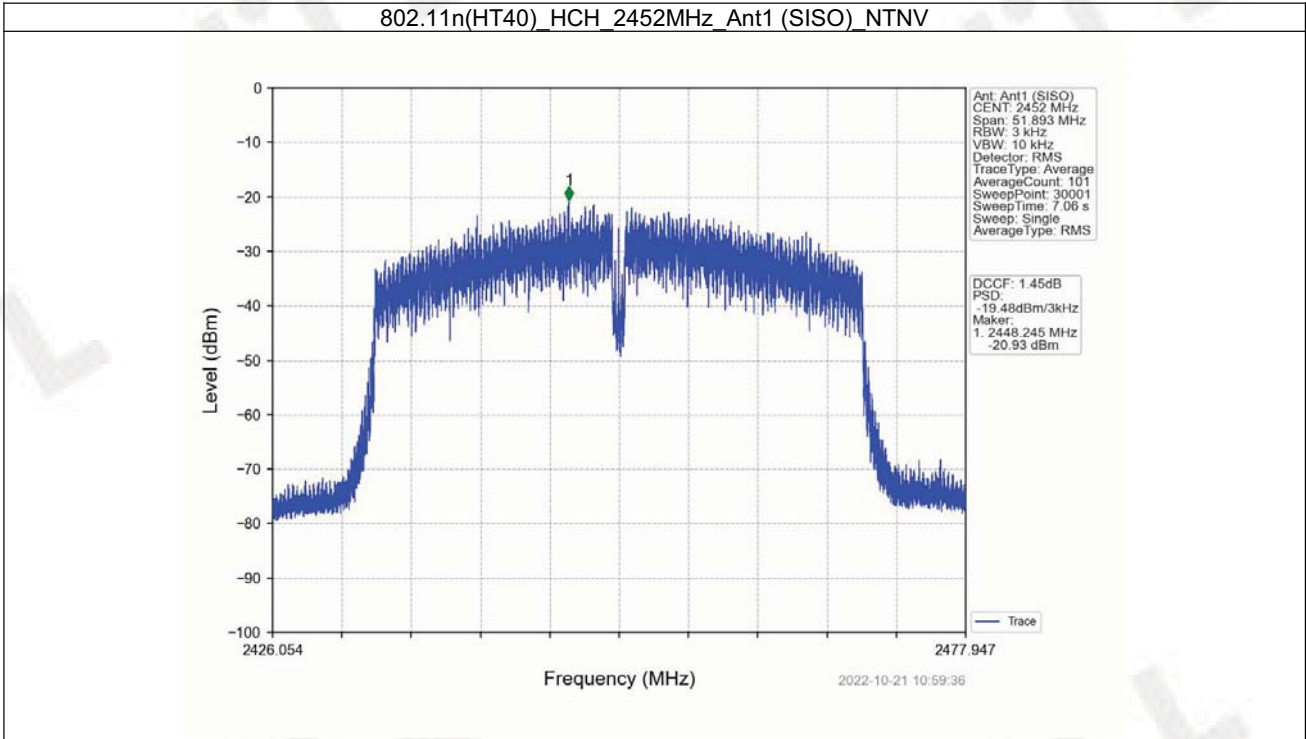


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV





4. Unwanted Emissions In Non-restricted Frequency Bands

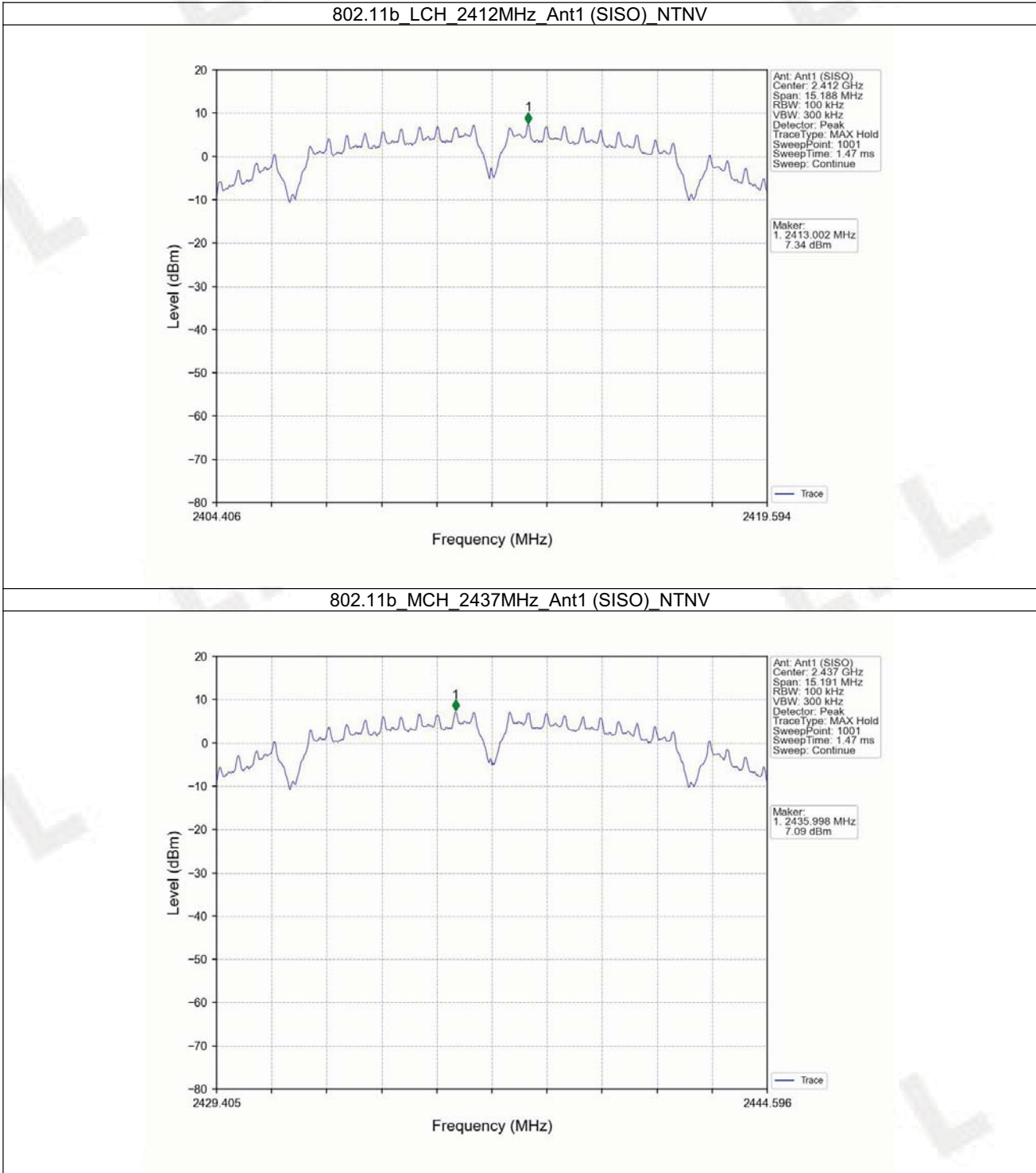
4.1 Ref

4.1.1 Test Result

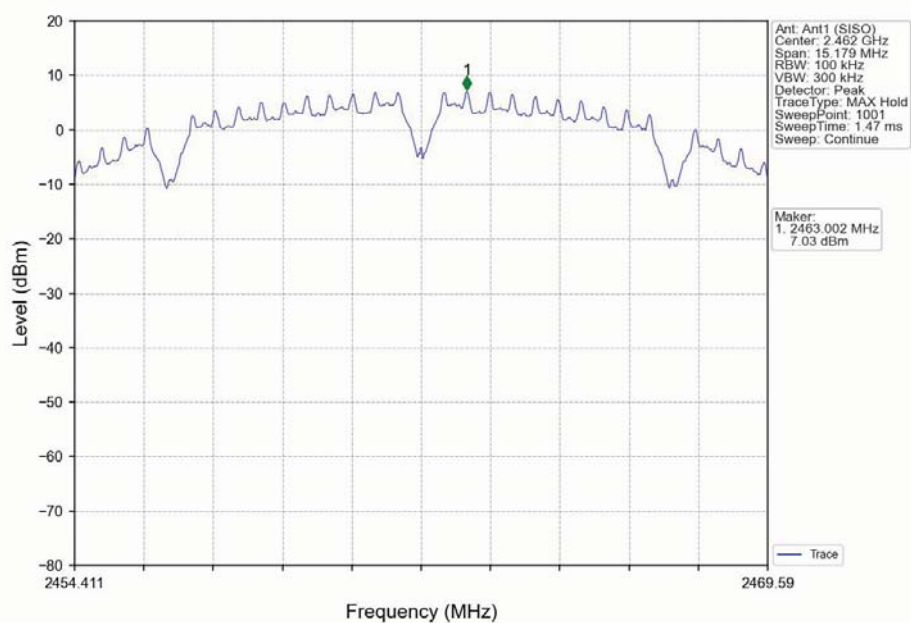
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	7.34
		2437	1	7.09
		2462	1	7.03
802.11g	SISO	2412	1	-0.19
		2437	1	-0.19
		2462	1	-0.24
802.11n (HT20)	SISO	2412	1	-0.09
		2437	1	-0.12
		2462	1	-0.25
802.11n (HT40)	SISO	2422	1	-2.90
		2437	1	-2.82
		2452	1	-2.92

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.

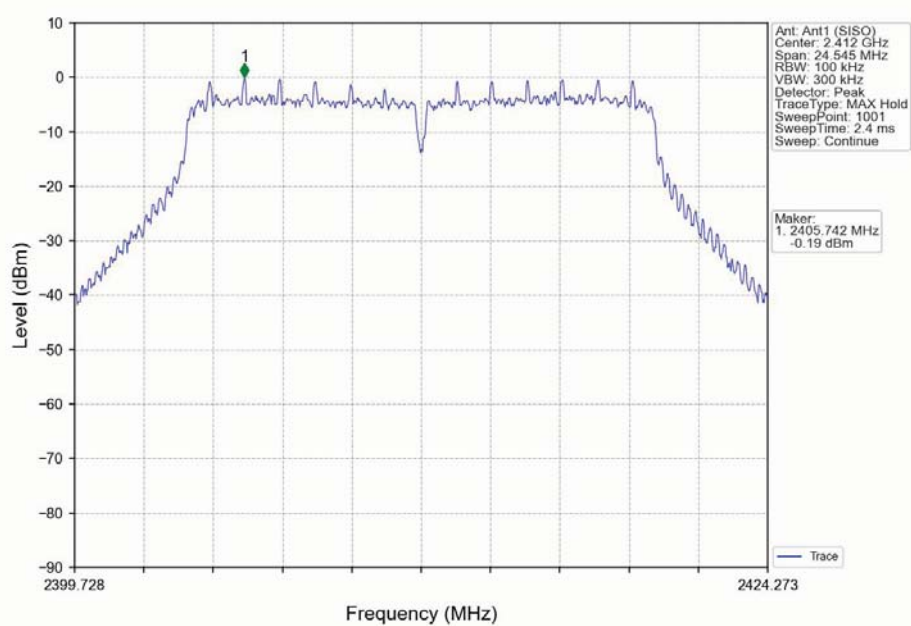
4.1.2 Test Graph



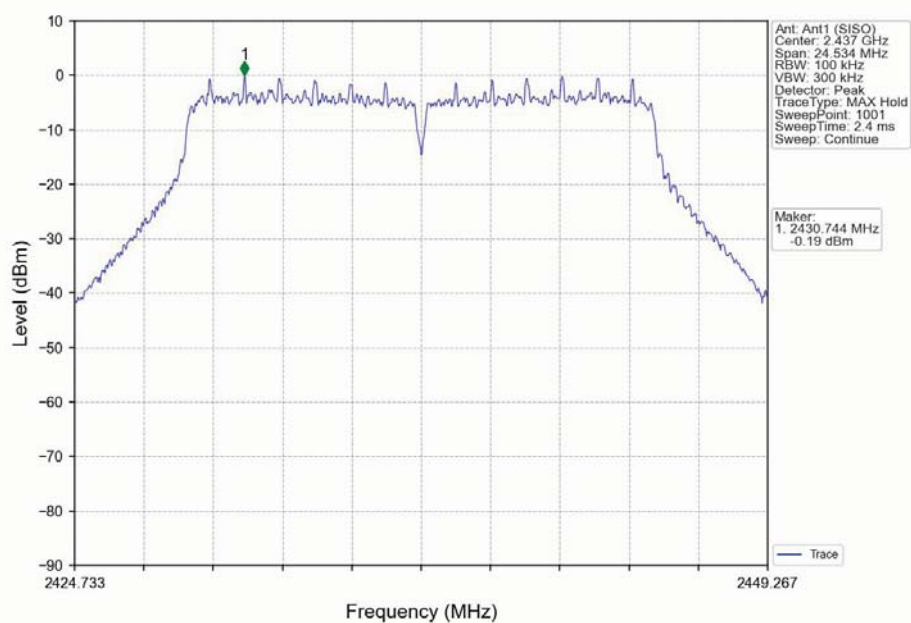
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



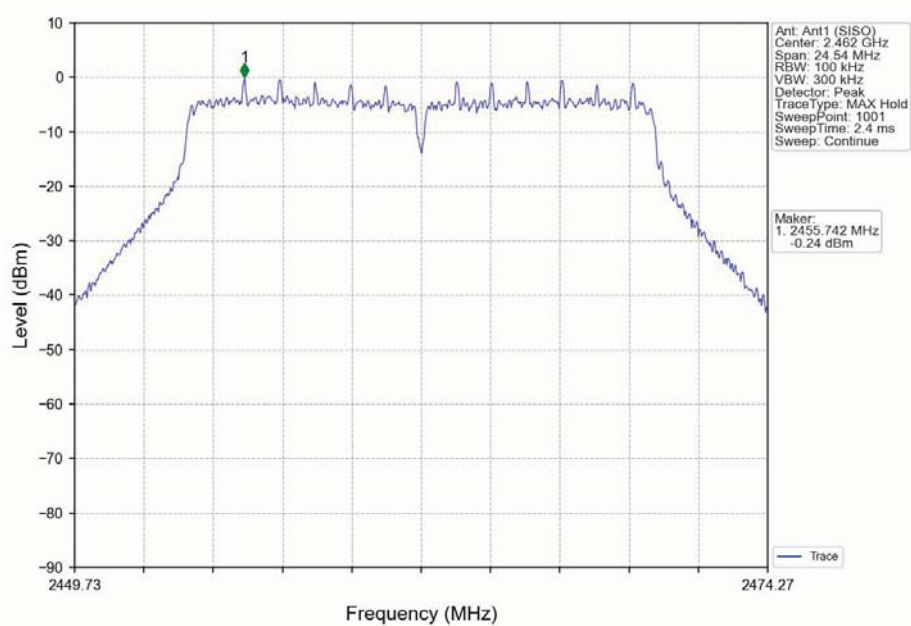
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



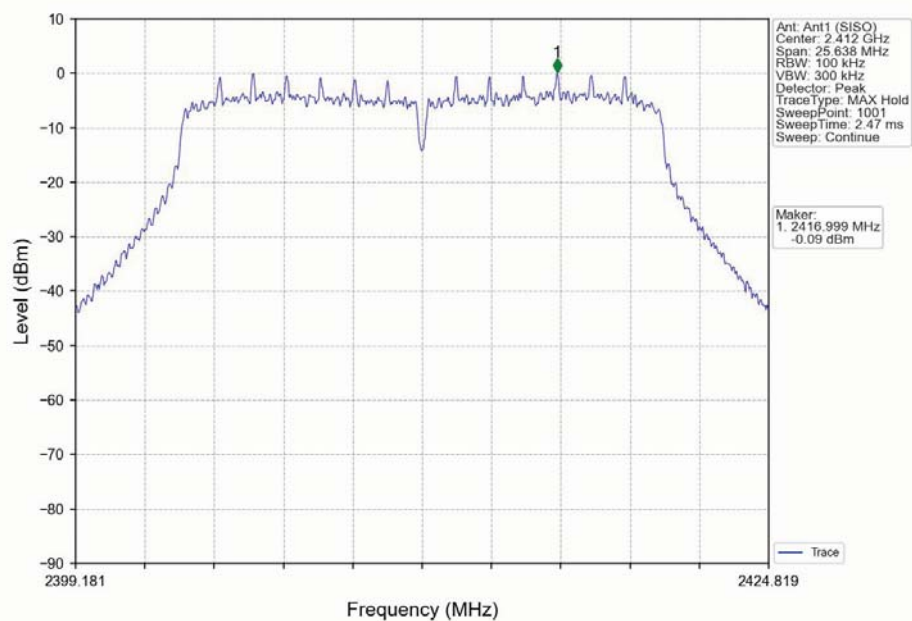
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



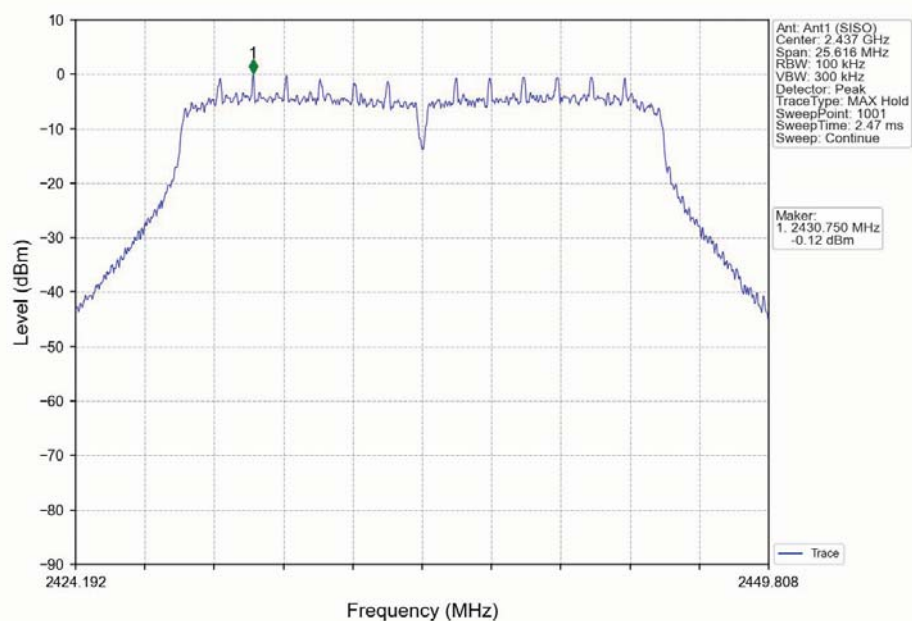
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



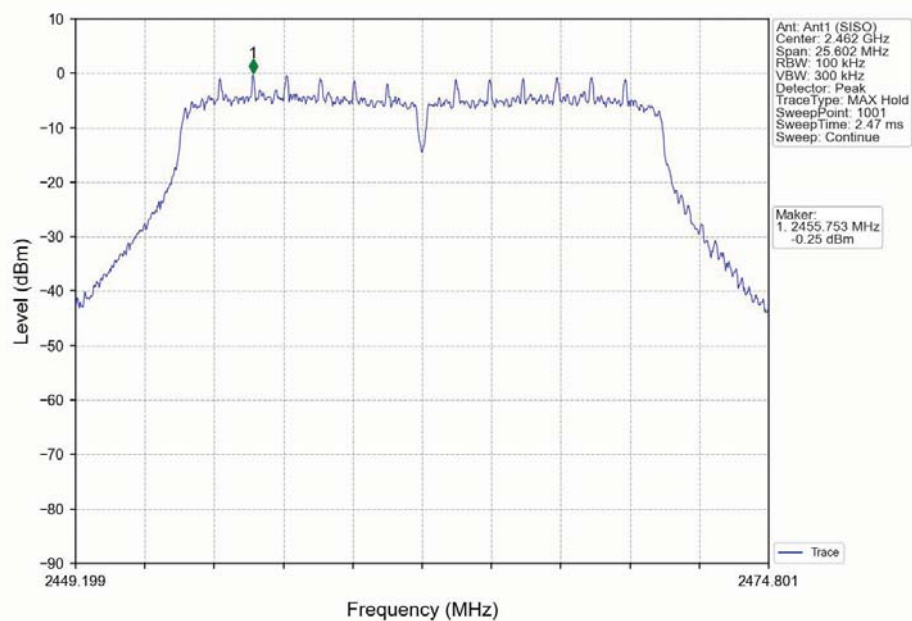
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



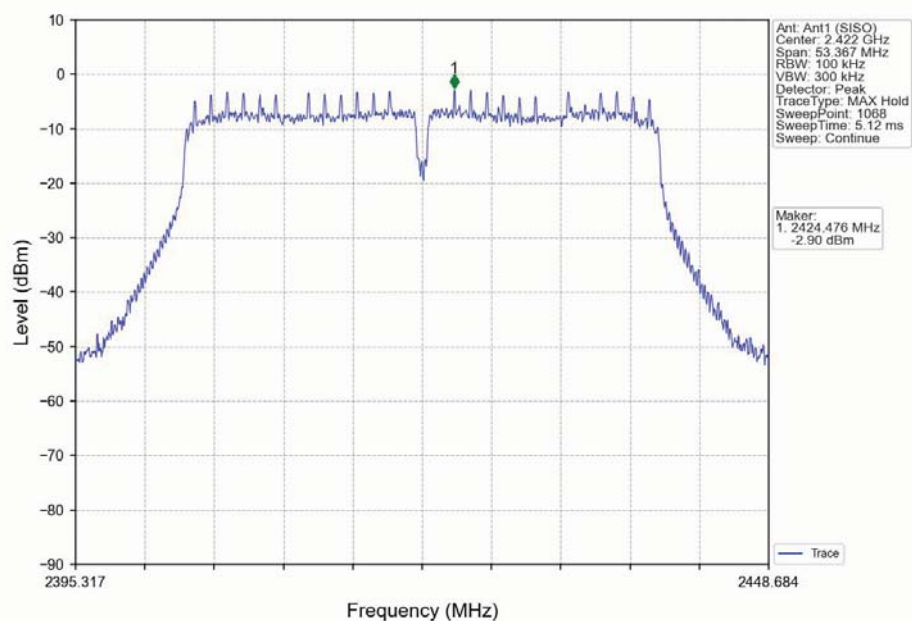
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



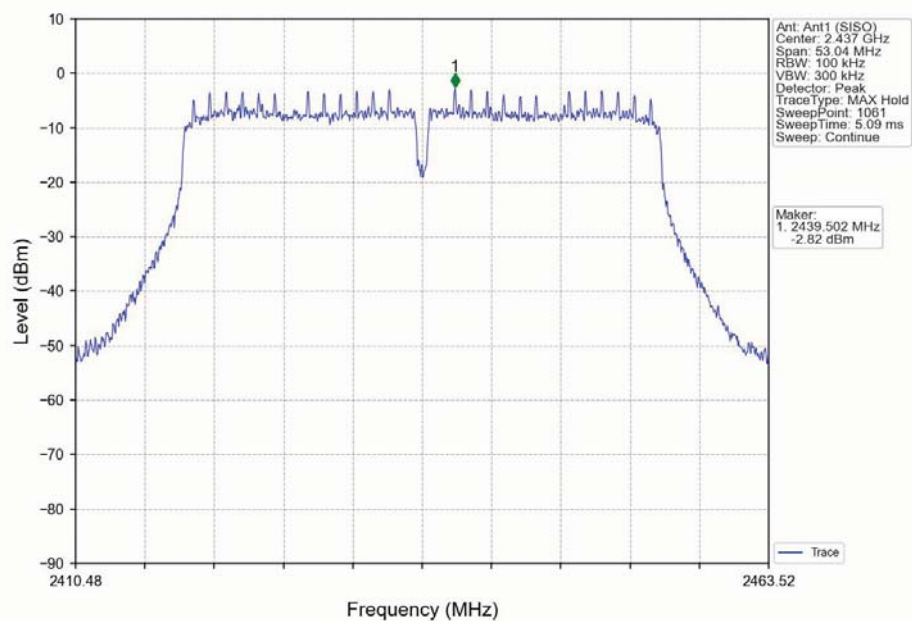
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



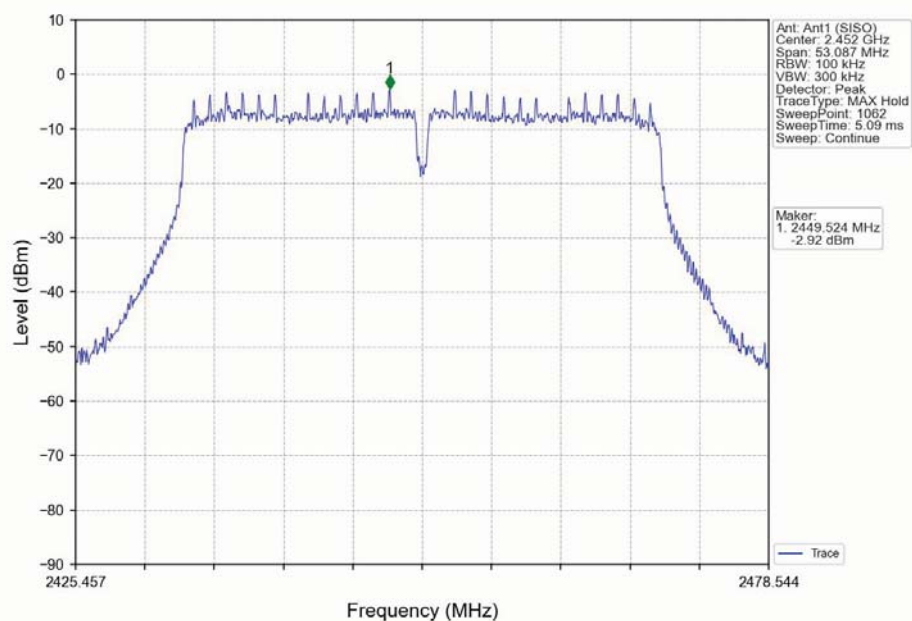
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



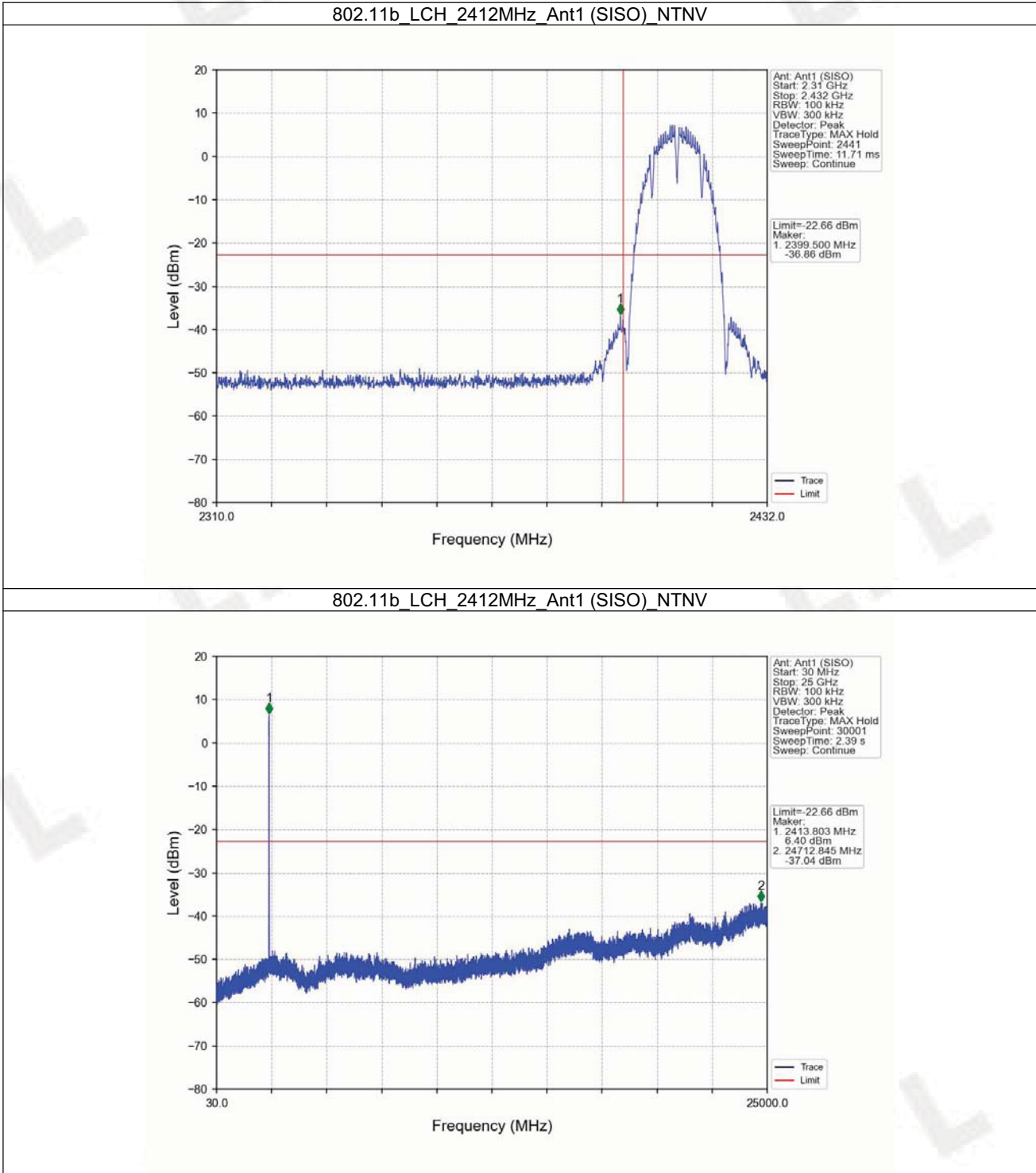
4.2 CSE

4.2.1 Test Result

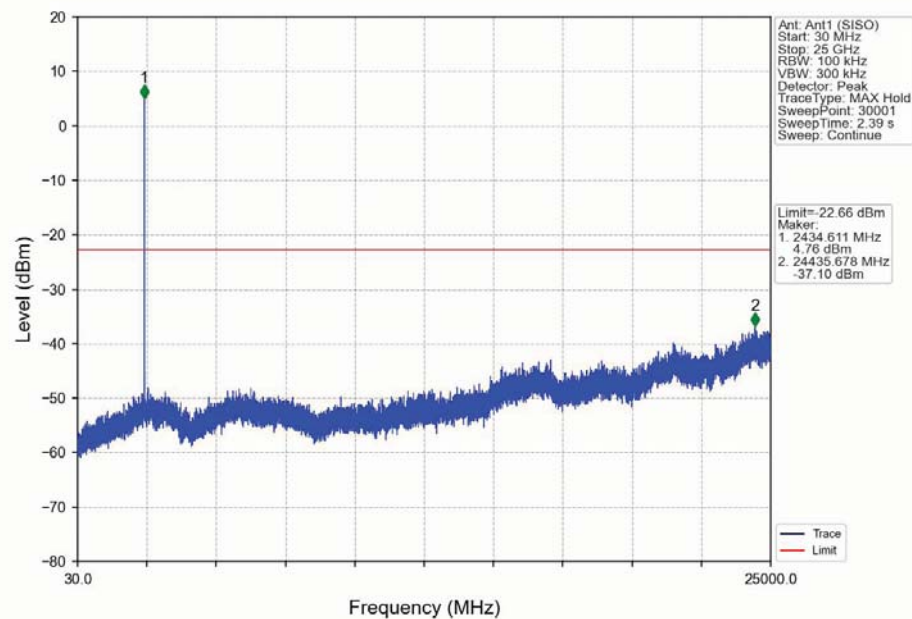
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.34	-22.66	Pass
		2437	1	7.34	-22.66	Pass
		2462	1	7.34	-22.66	Pass
802.11g	SISO	2412	1	-0.19	-30.19	Pass
		2437	1	-0.19	-30.19	Pass
		2462	1	-0.19	-30.19	Pass
802.11n (HT20)	SISO	2412	1	-0.09	-30.09	Pass
		2437	1	-0.09	-30.09	Pass
		2462	1	-0.09	-30.09	Pass
802.11n (HT40)	SISO	2422	1	-2.82	-32.82	Pass
		2437	1	-2.82	-32.82	Pass
		2452	1	-2.82	-32.82	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.

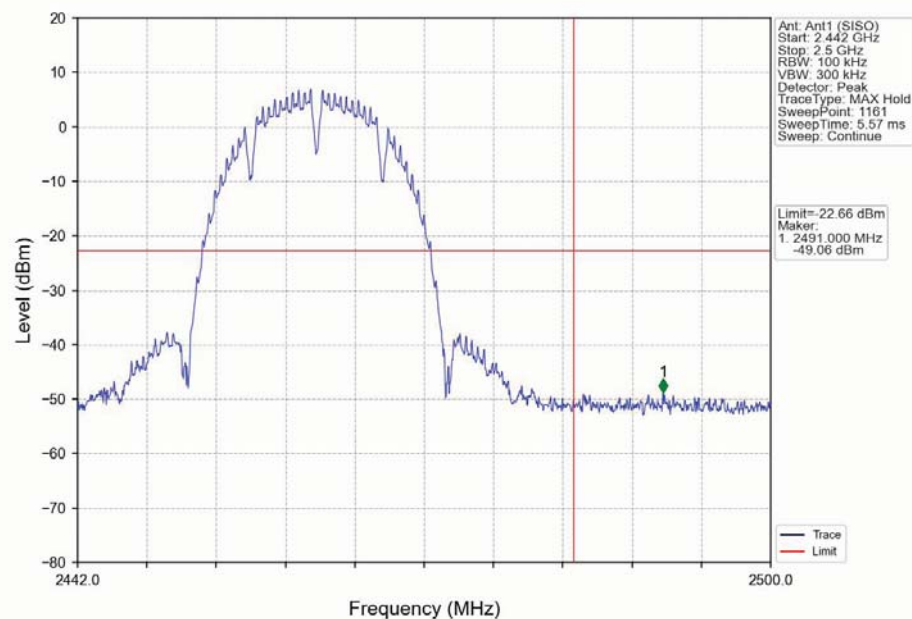
4.2.2 Test Graph



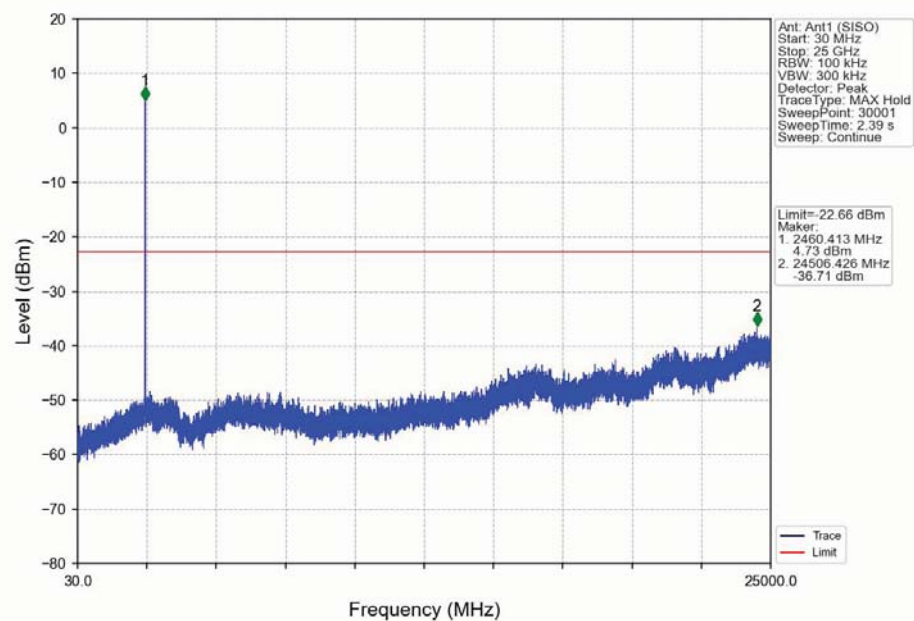
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



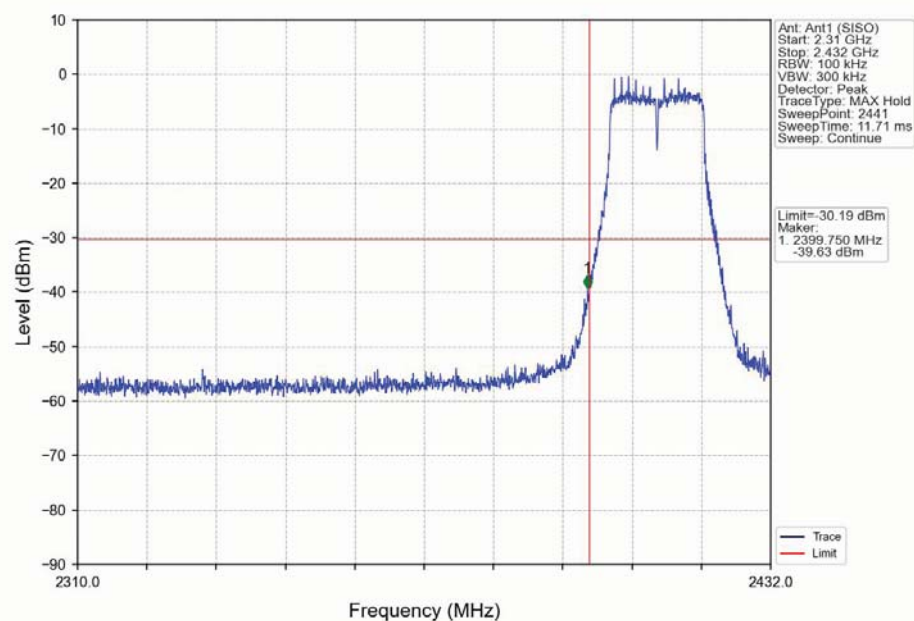
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



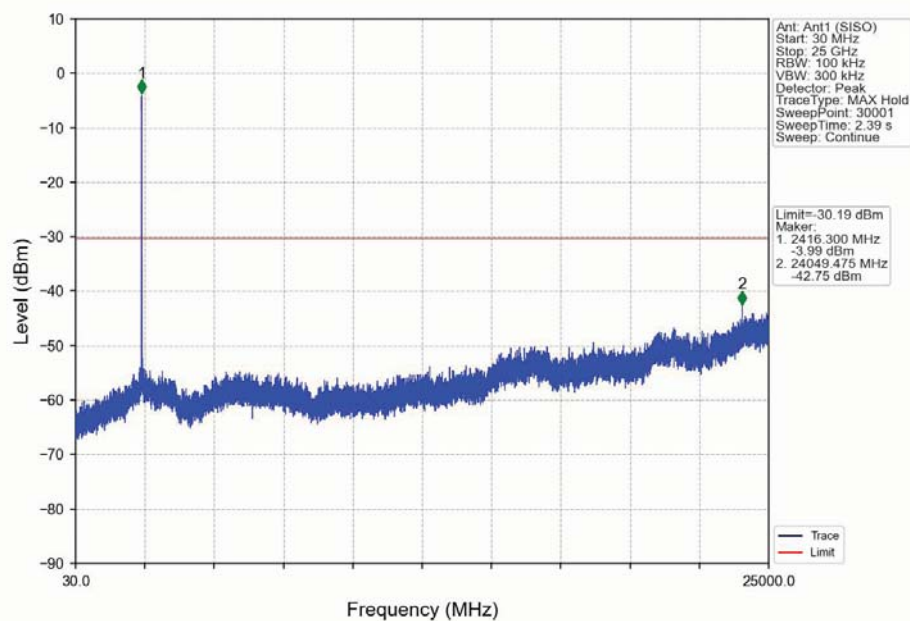
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



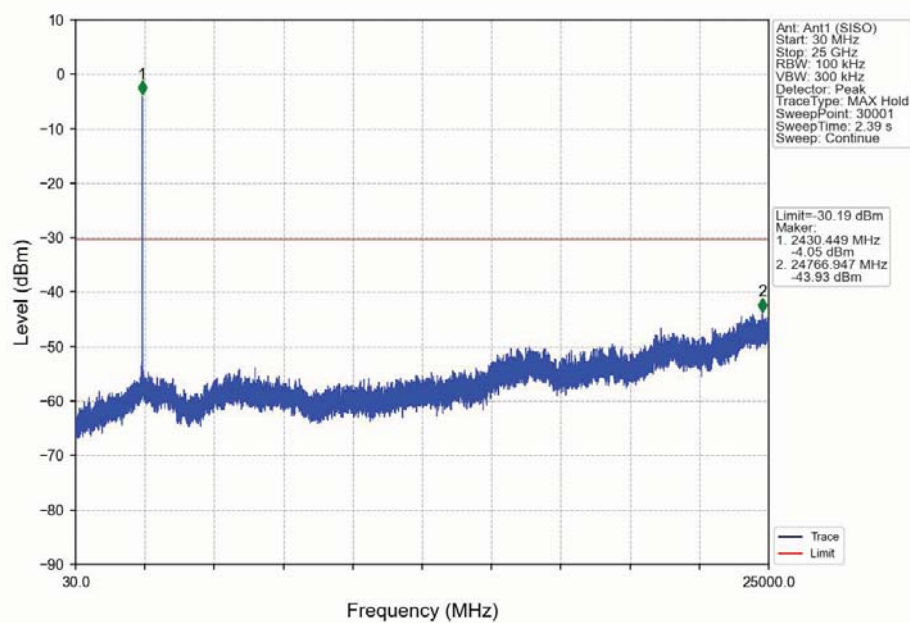
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



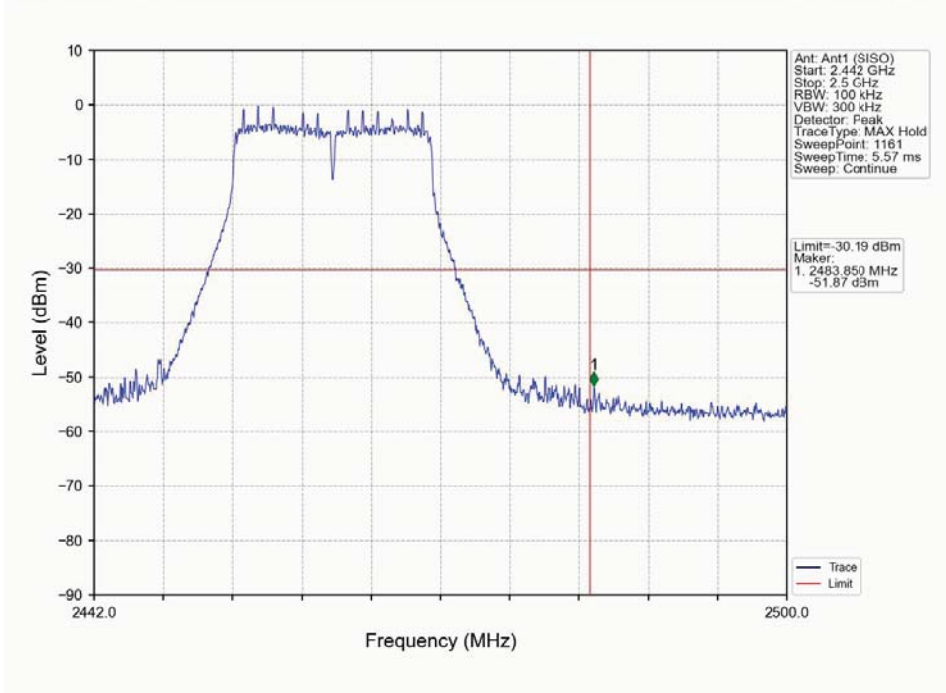
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



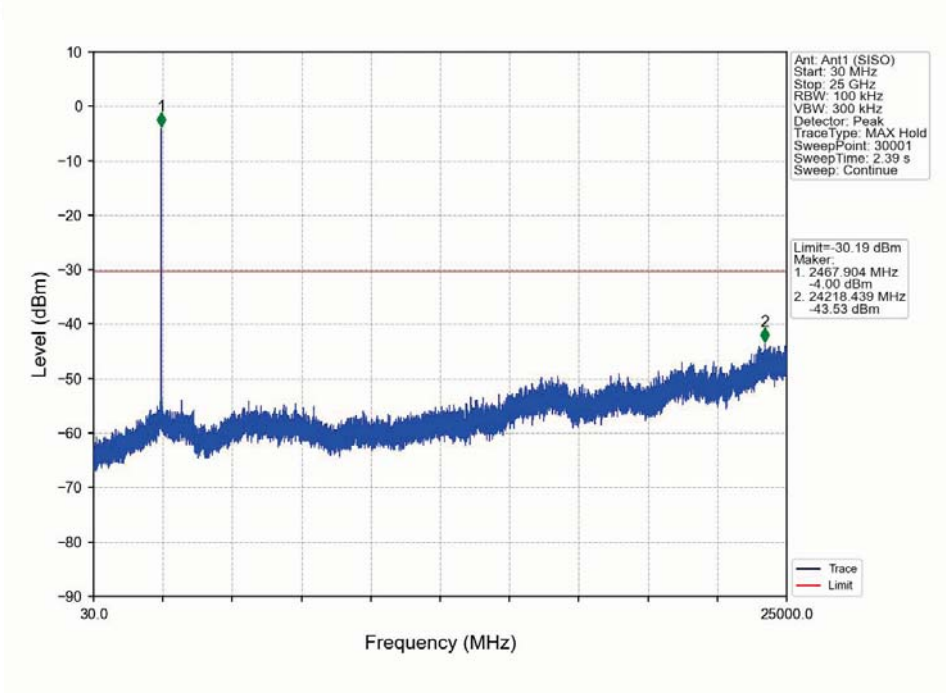
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



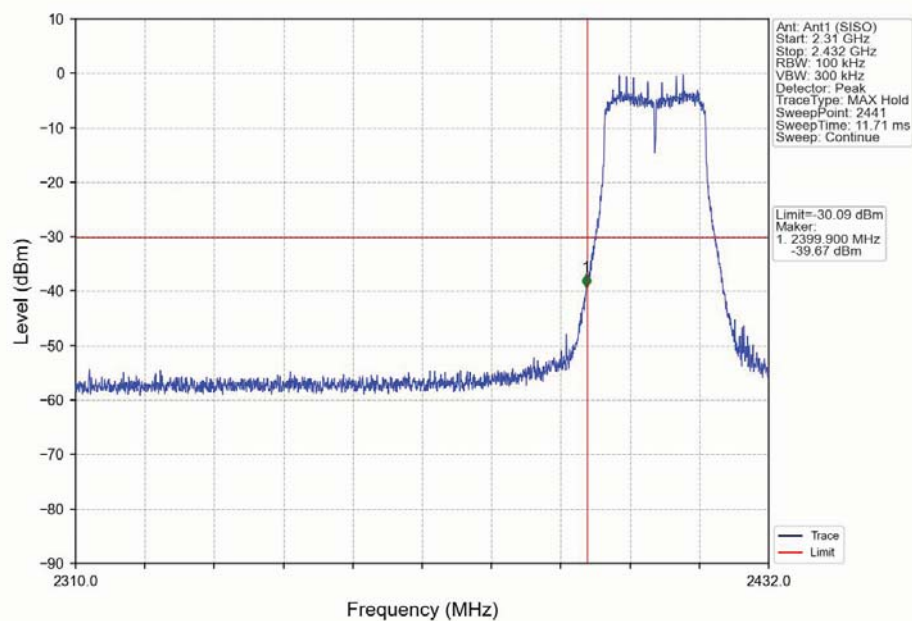
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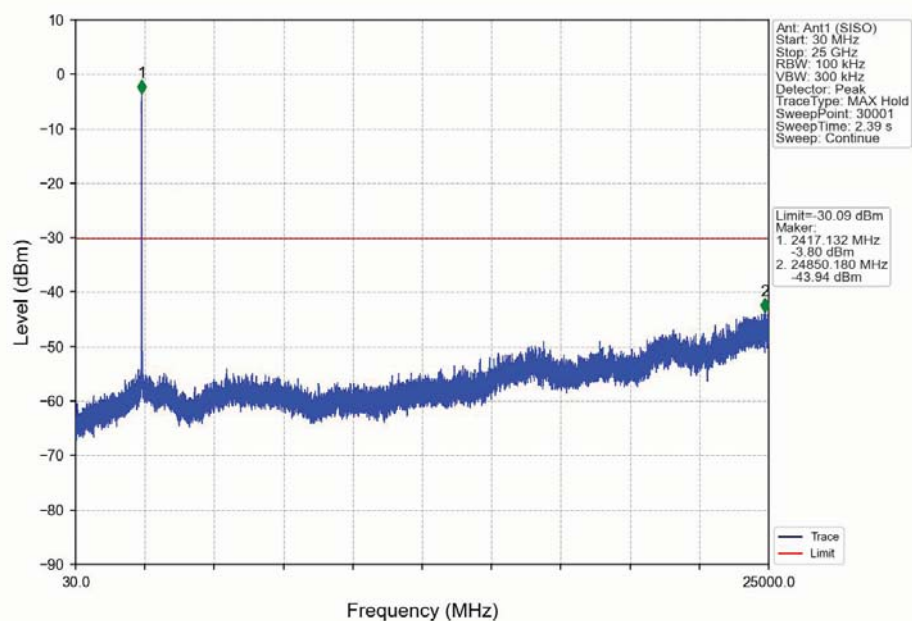
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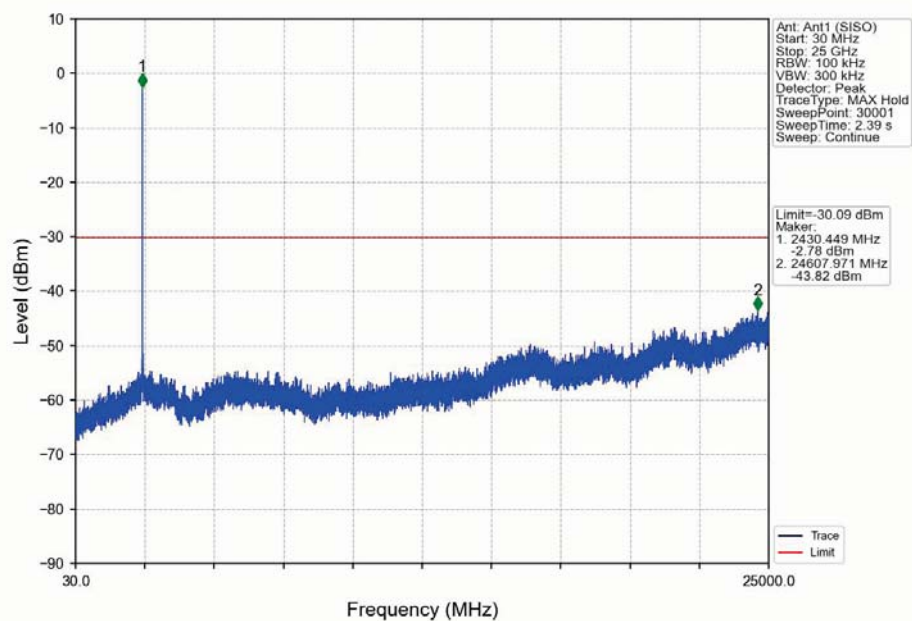
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



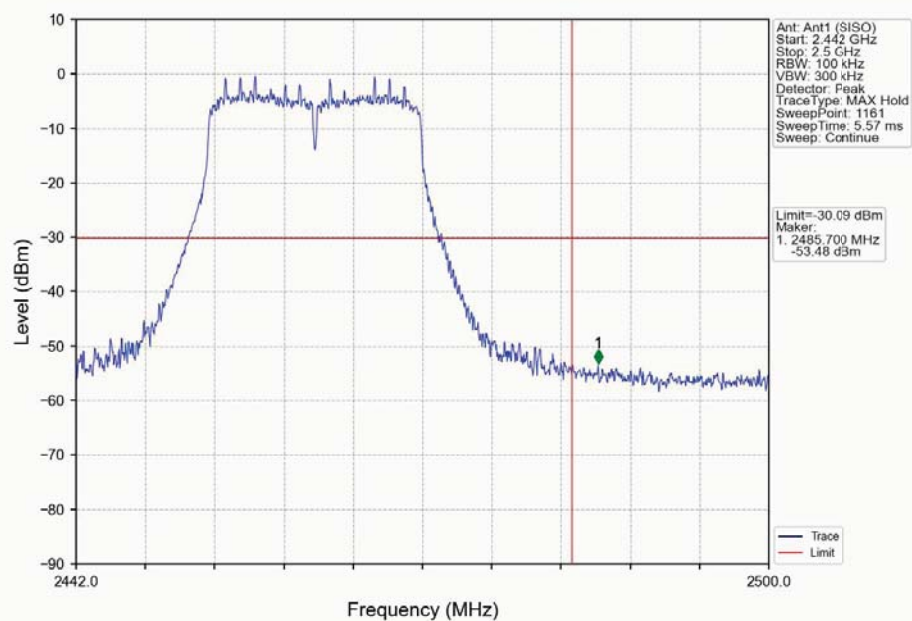
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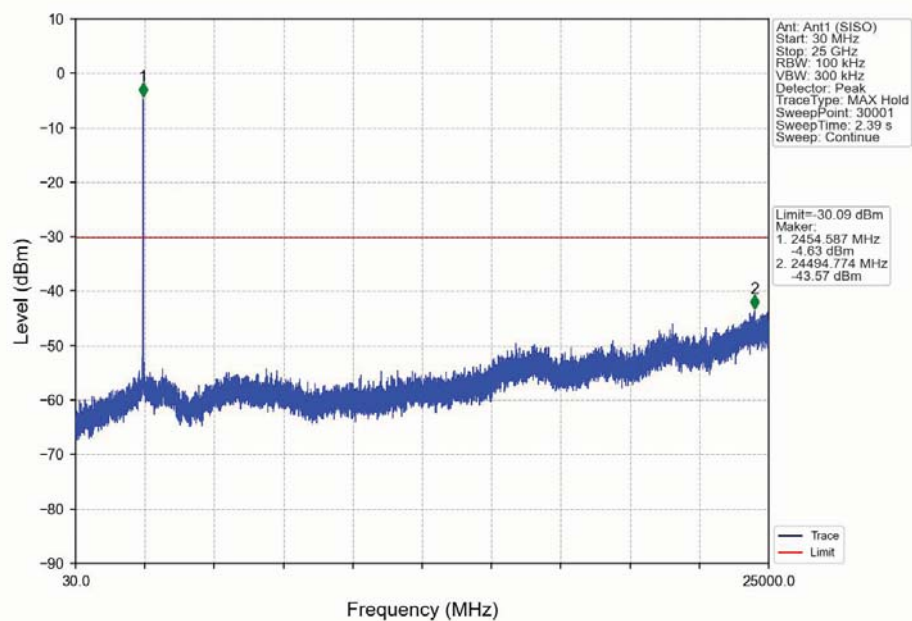
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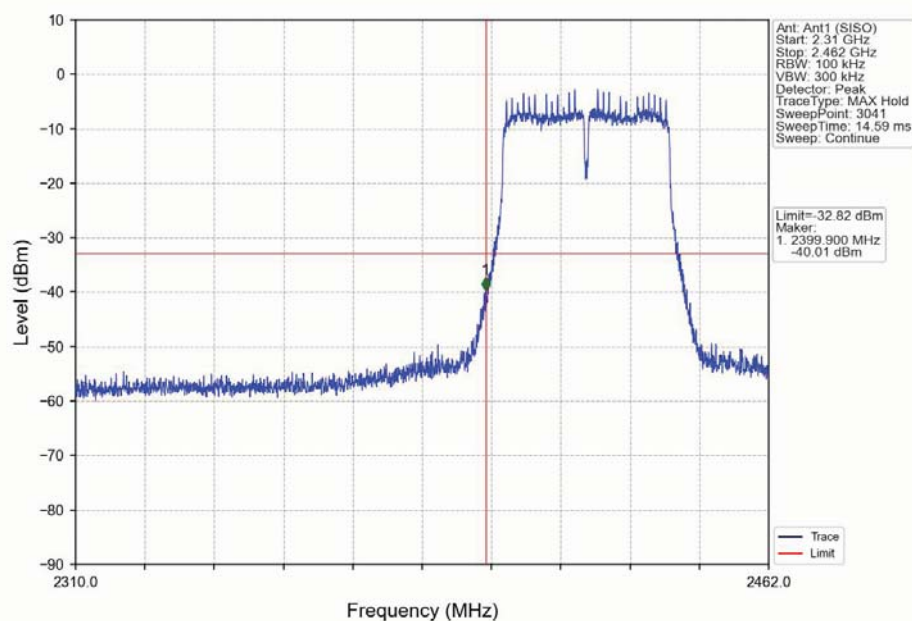
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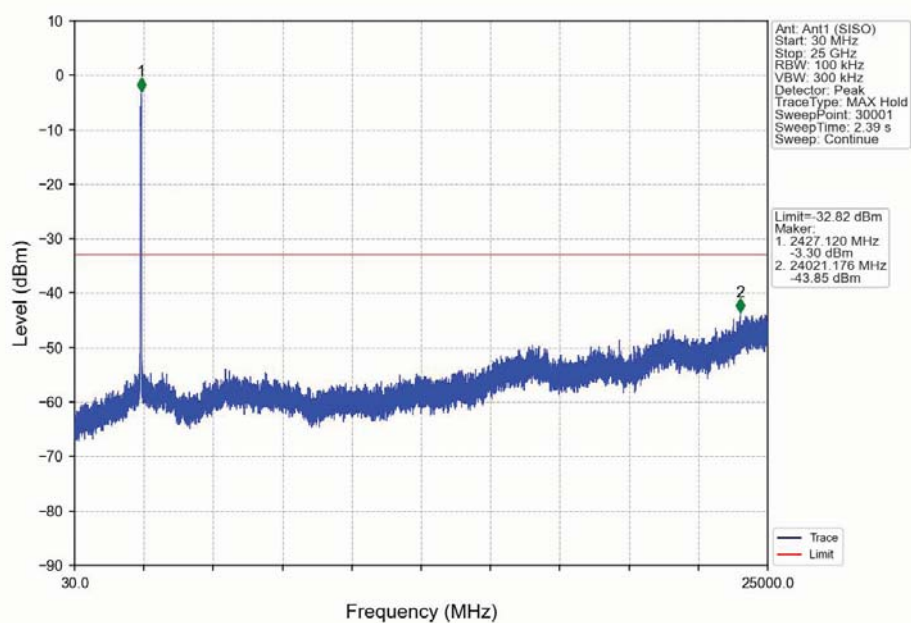
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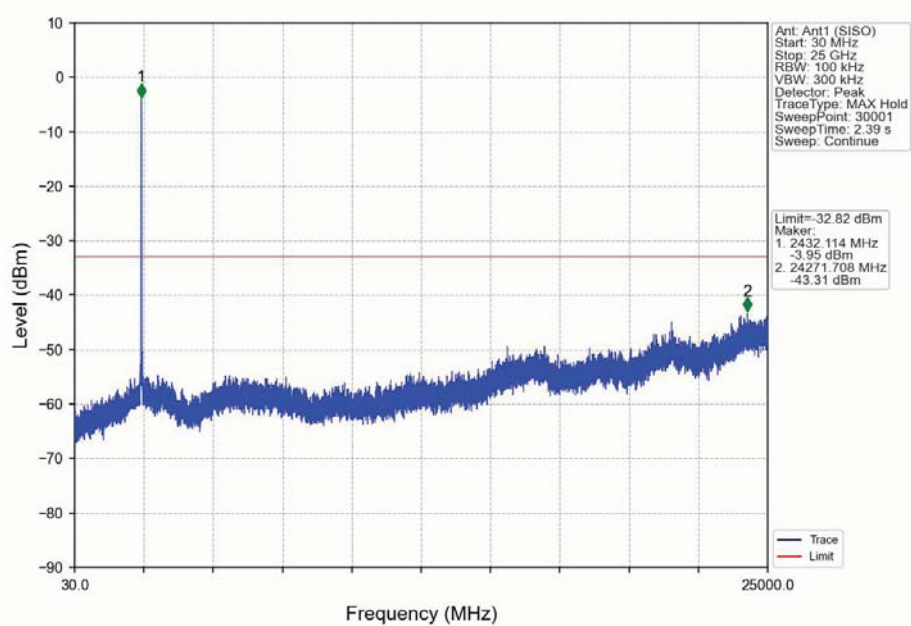
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



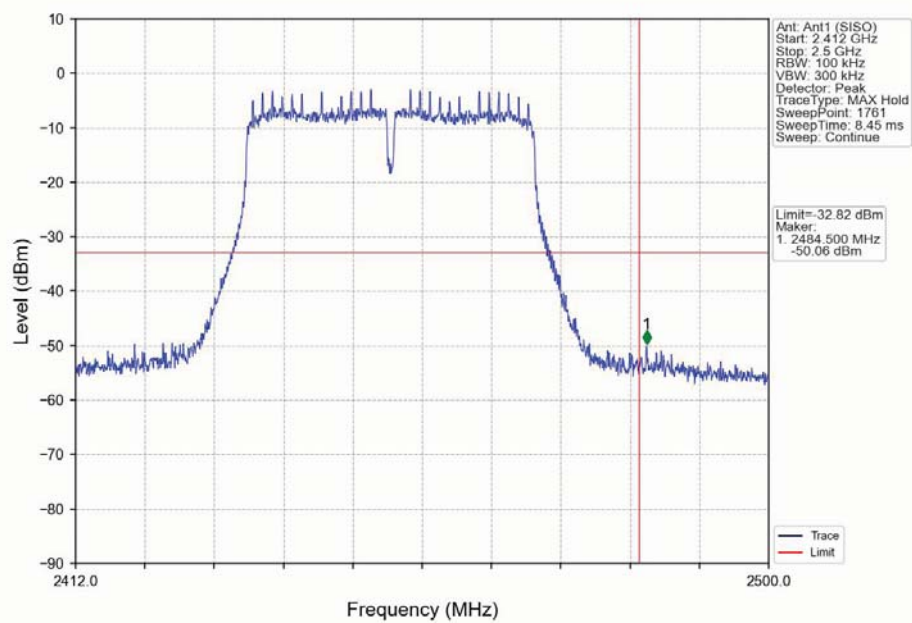
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

