



1. Bandwidth

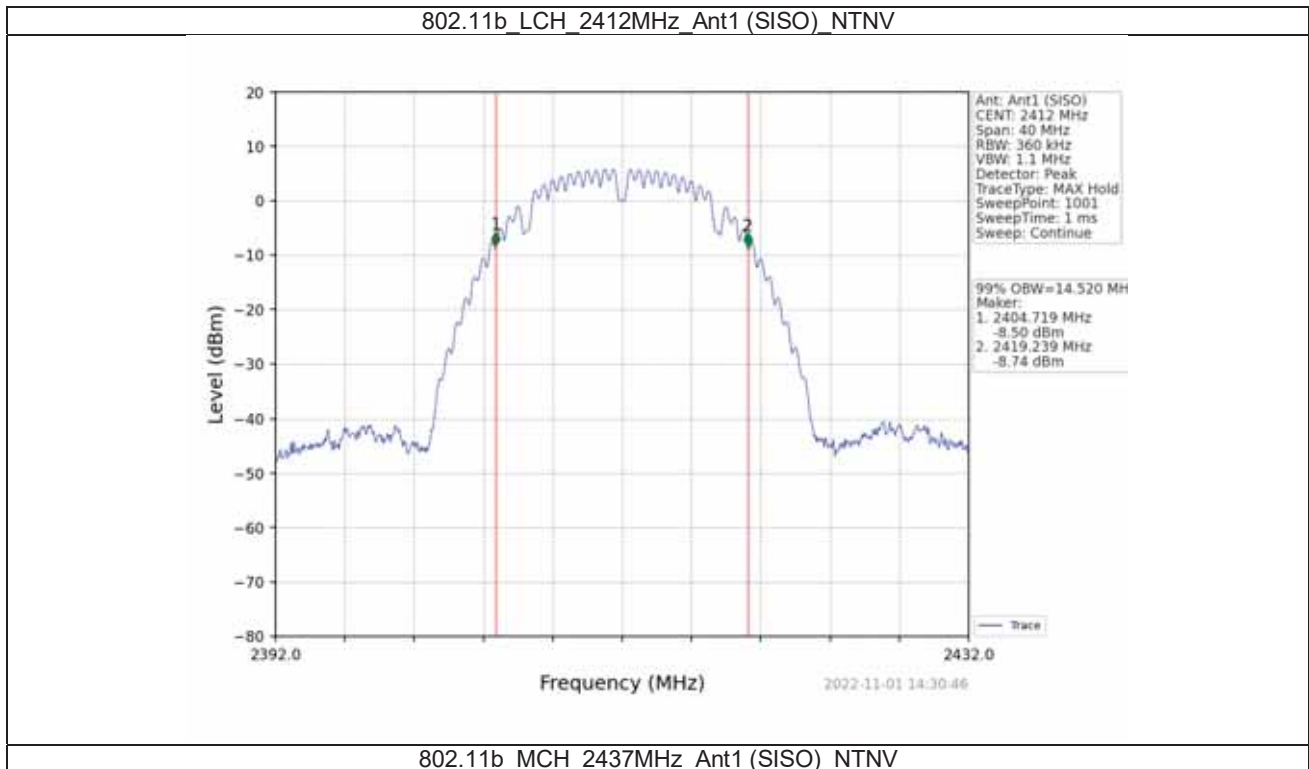
1.1 OBW

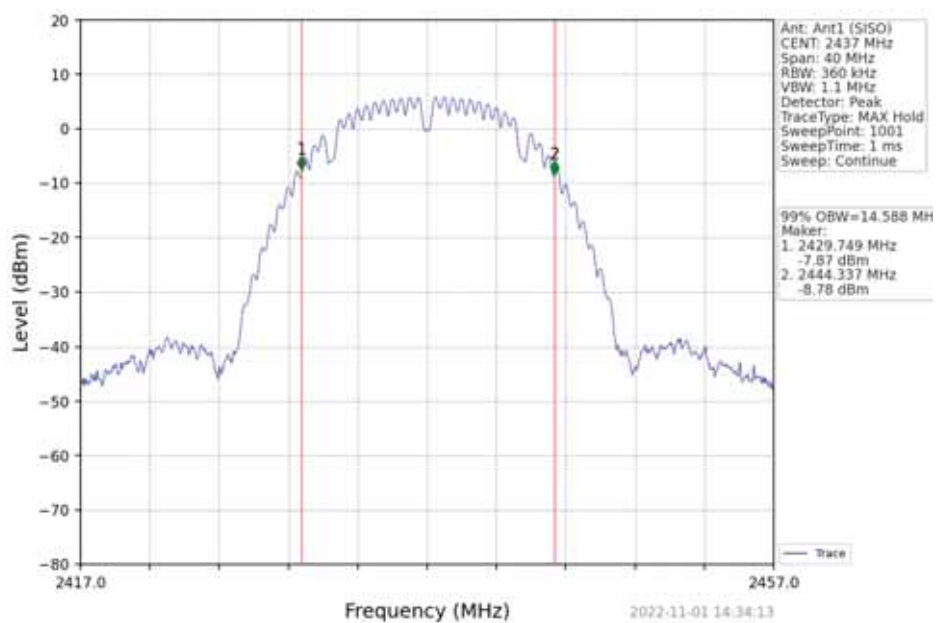
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)	Verdict
						Result	
802.11b	SISO	2412	/	/	1	14.520	Pass
		2437	/	/	1	14.588	Pass
		2462	/	/	1	14.672	Pass
802.11g	SISO	2412	/	/	1	17.085	Pass
		2437	/	/	1	17.063	Pass
		2462	/	/	1	17.110	Pass
802.11n (HT20)	MIMO	2412	/	/	1	18.187	Pass
		2437	/	/	1	18.185	Pass
		2462	/	/	1	18.244	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.506	Pass
		2437	/	/	1	36.409	Pass
		2452	/	/	1	36.575	Pass

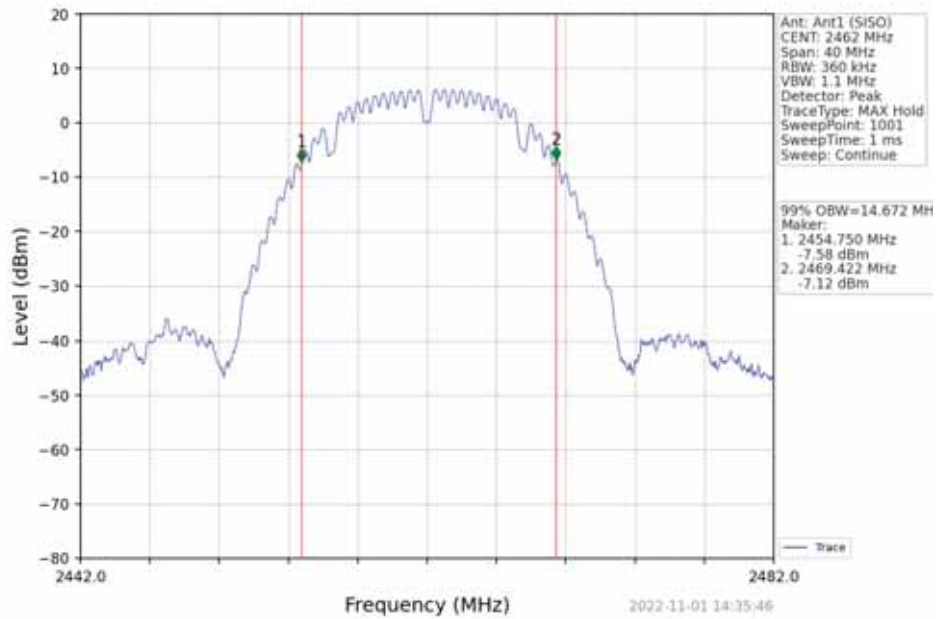


1.1.2 Test Graph

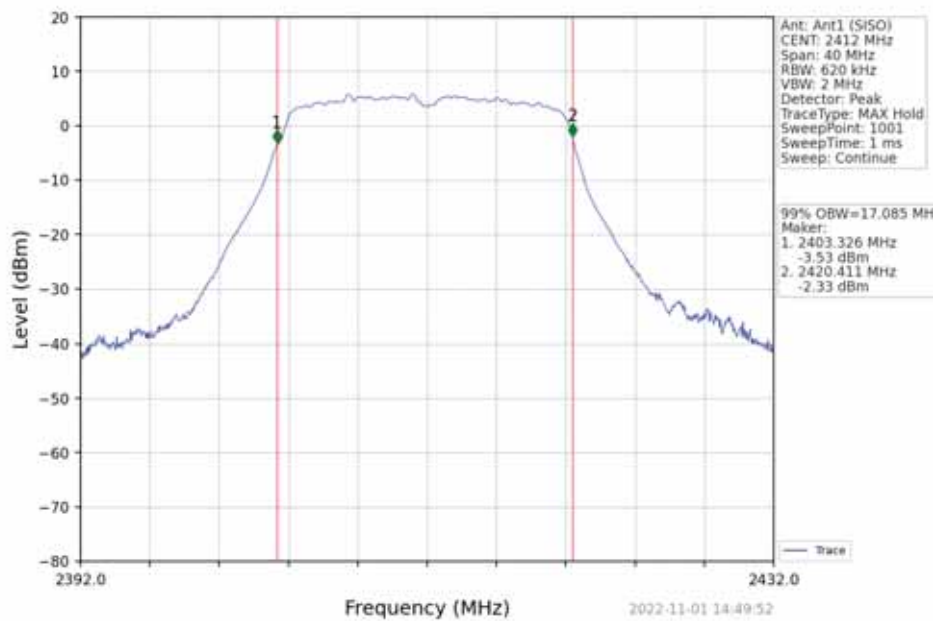




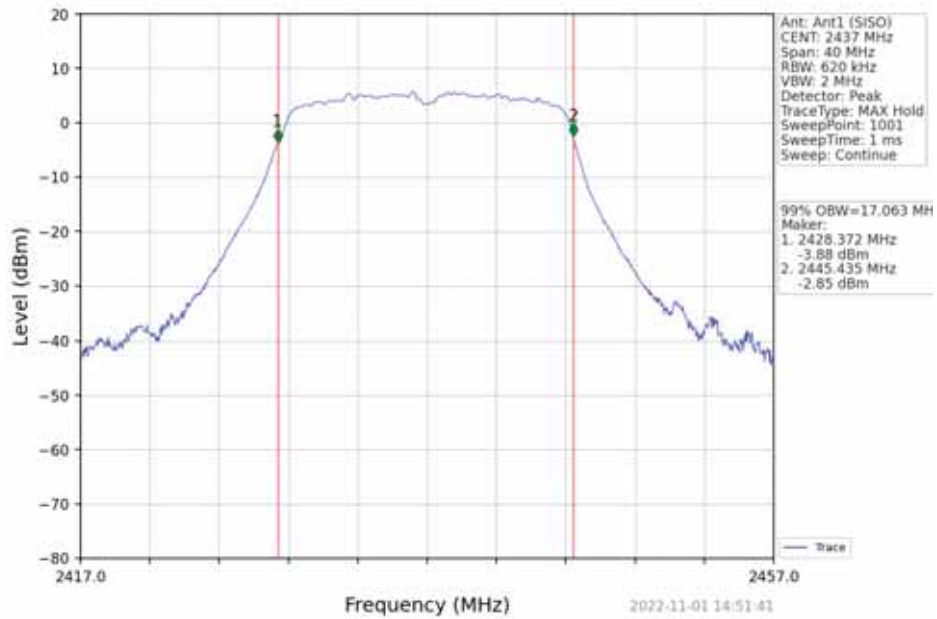
802.11b_HCH_2462MHz_Ant1 (SISO) NTNV



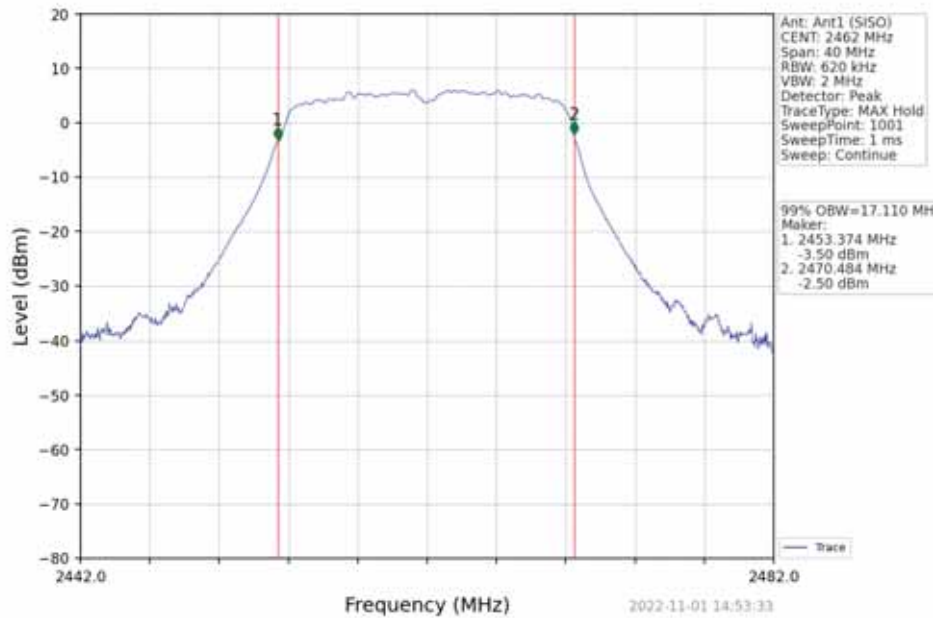
802.11g_LCH_2412MHz_Ant1 (SISO) NTNV



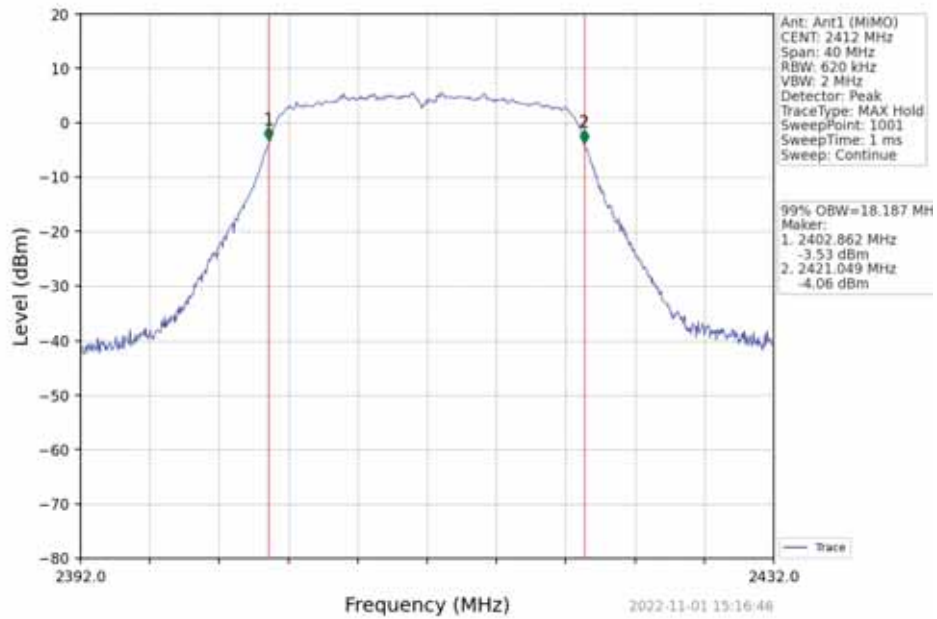
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



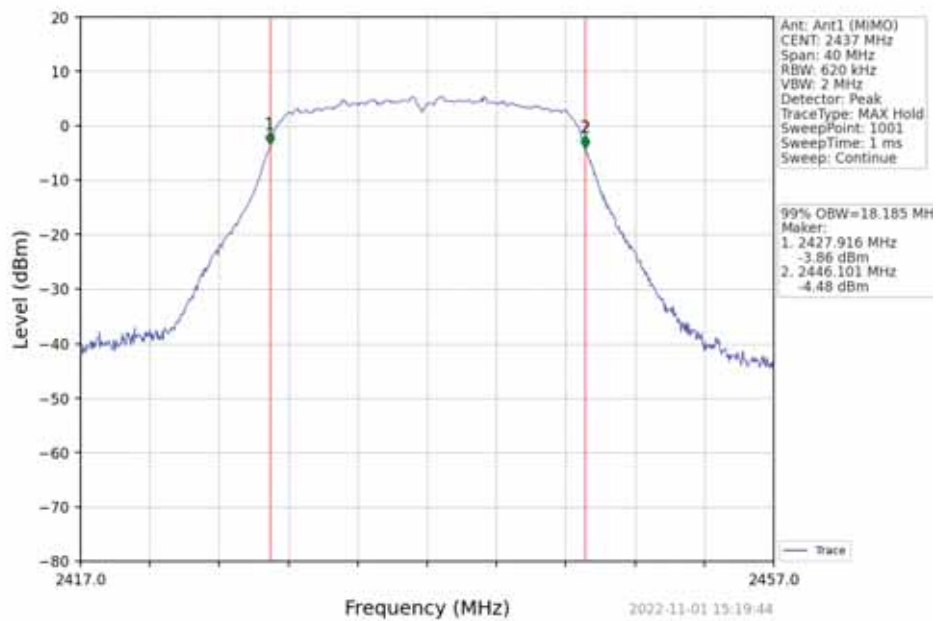
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

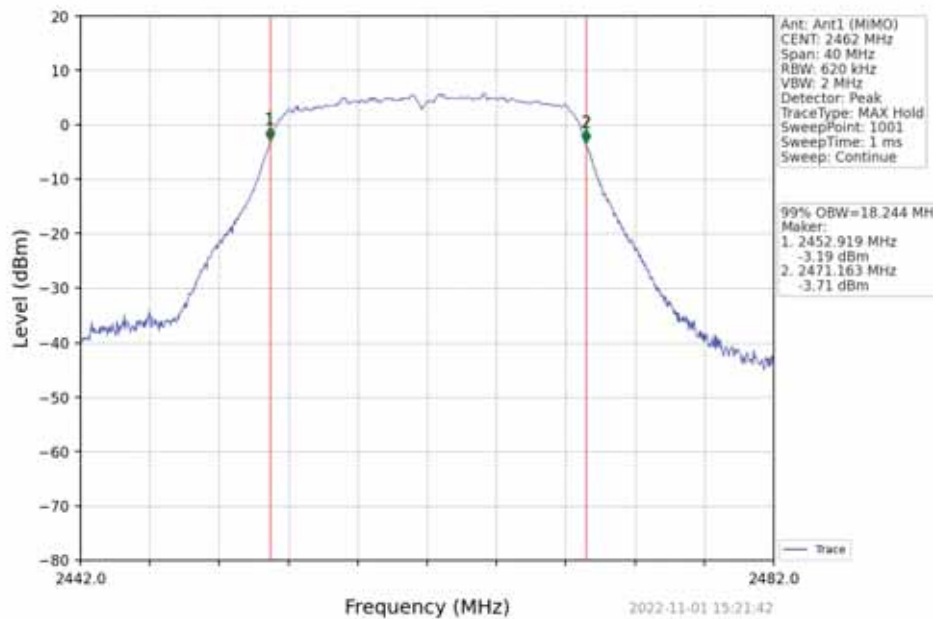


802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

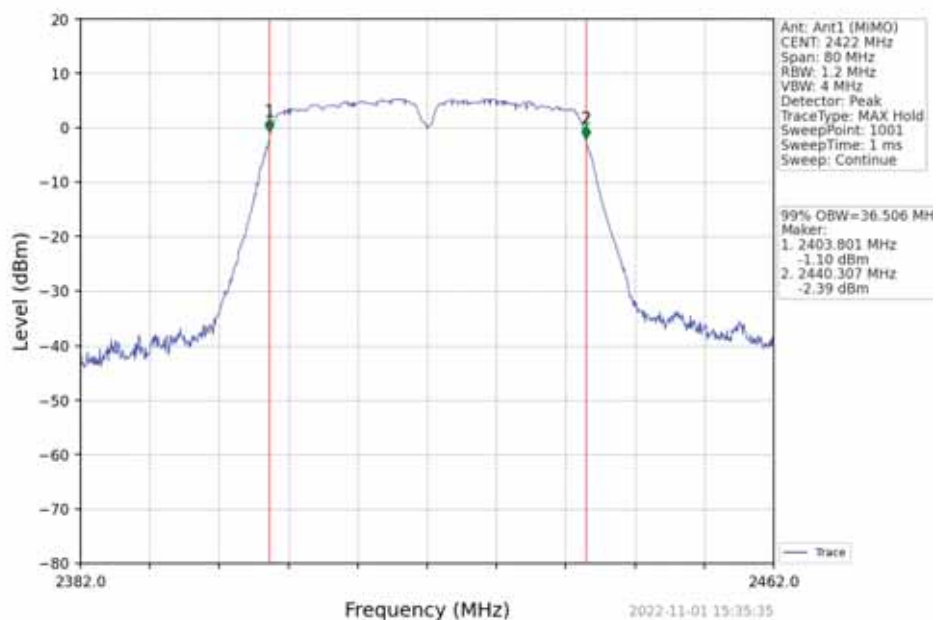




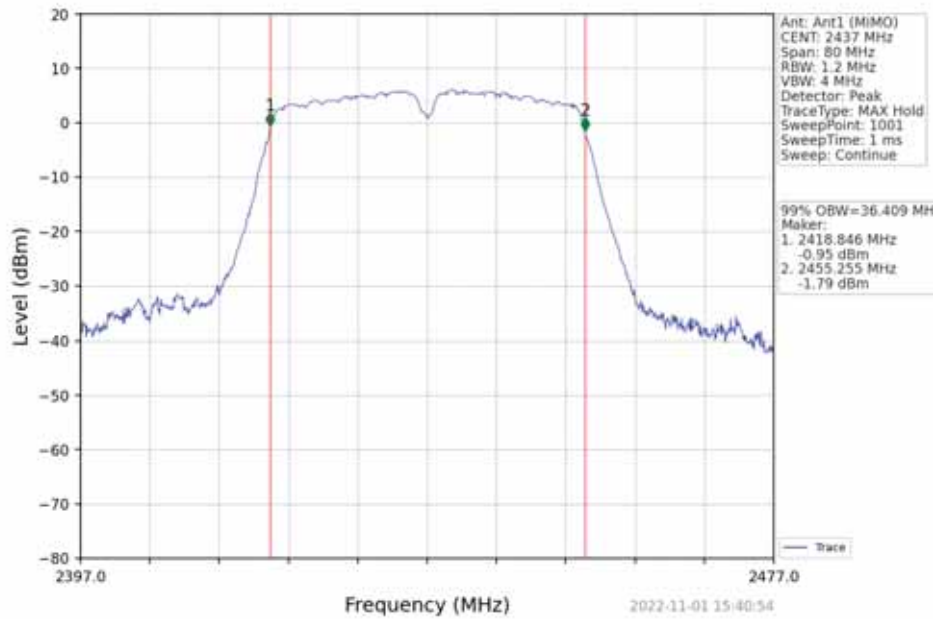
802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTN



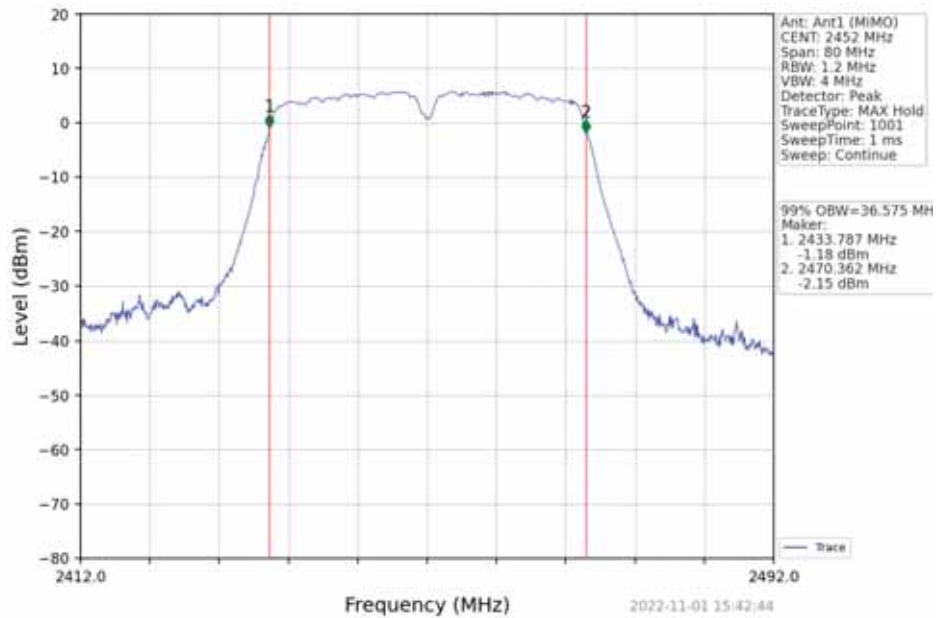
802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTN



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV





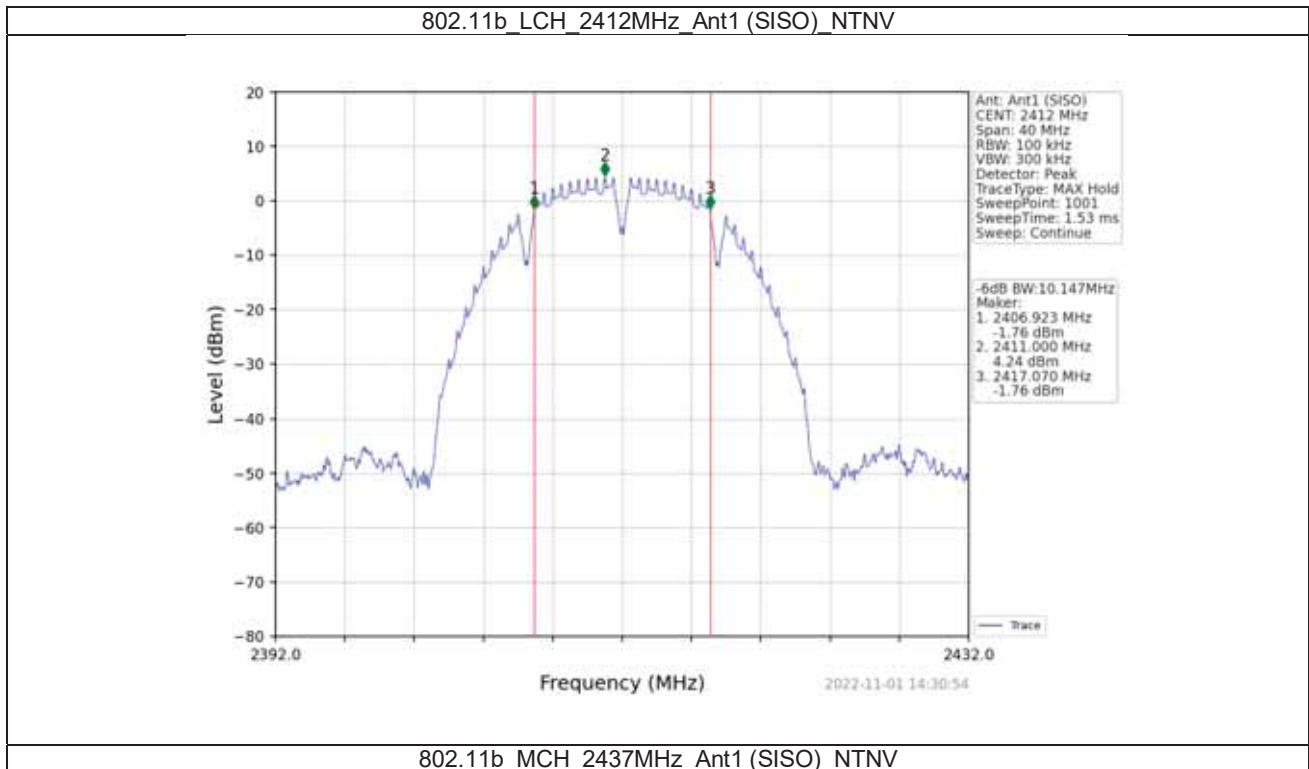
1.2 6dB BW

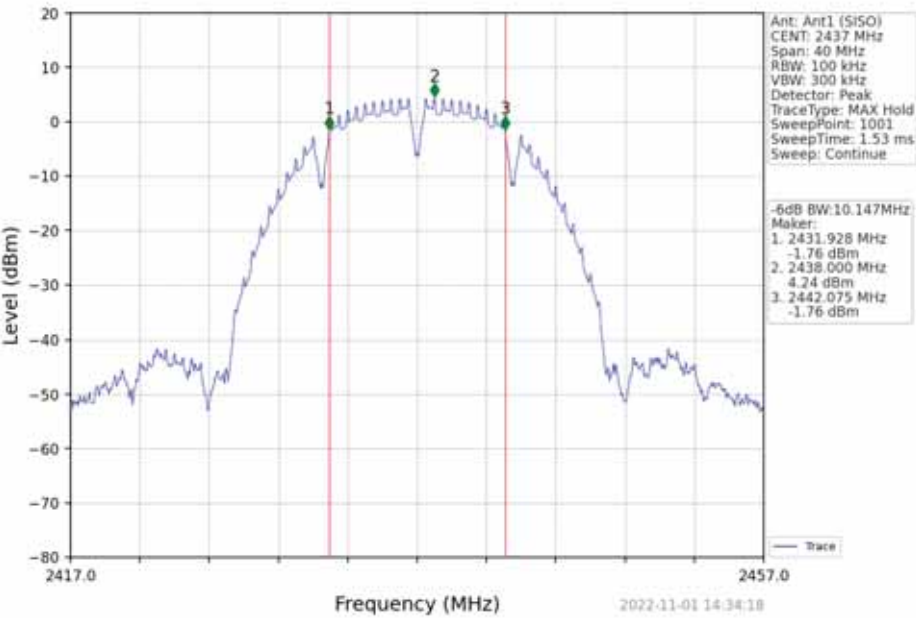
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	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	10.149	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	16.411	≥ 0.5	Pass
		2437	/	/	1	16.396	≥ 0.5	Pass
		2462	/	/	1	16.402	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.626	≥ 0.5	Pass
		2437	/	/	1	17.620	≥ 0.5	Pass
		2462	/	/	1	17.638	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.415	≥ 0.5	Pass
		2437	/	/	1	36.375	≥ 0.5	Pass
		2452	/	/	1	36.436	≥ 0.5	Pass

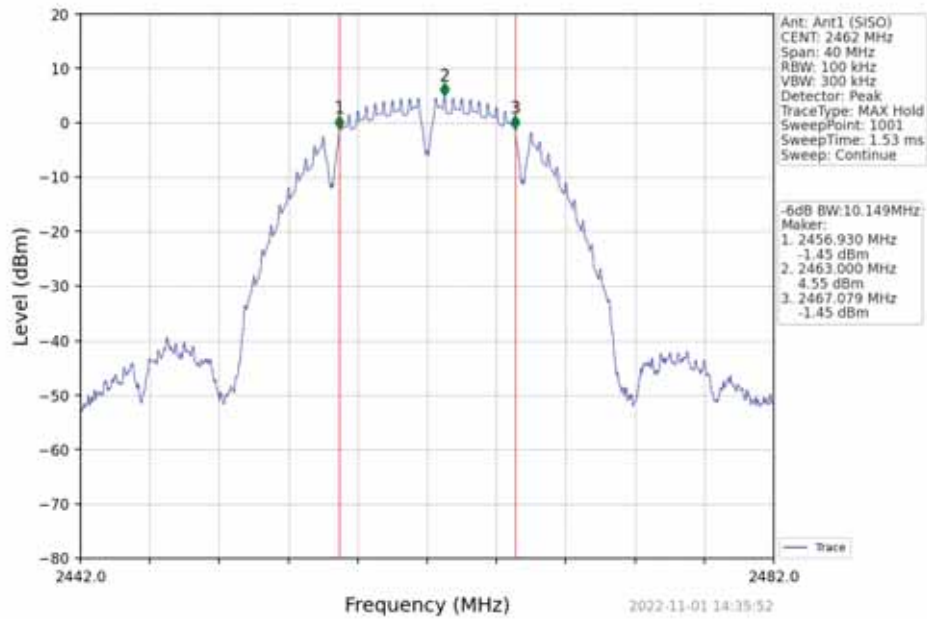


1.2.2 Test Graph

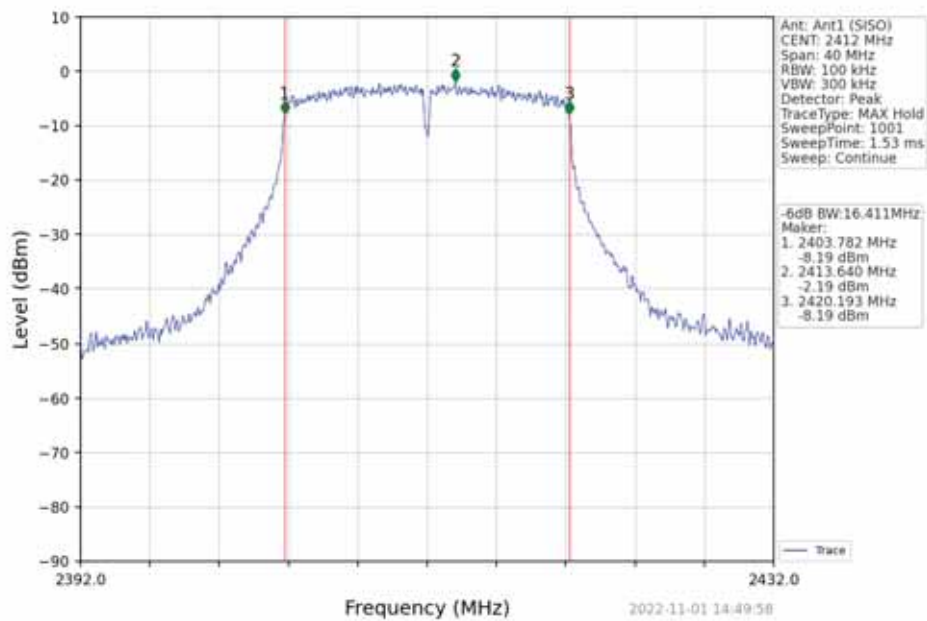




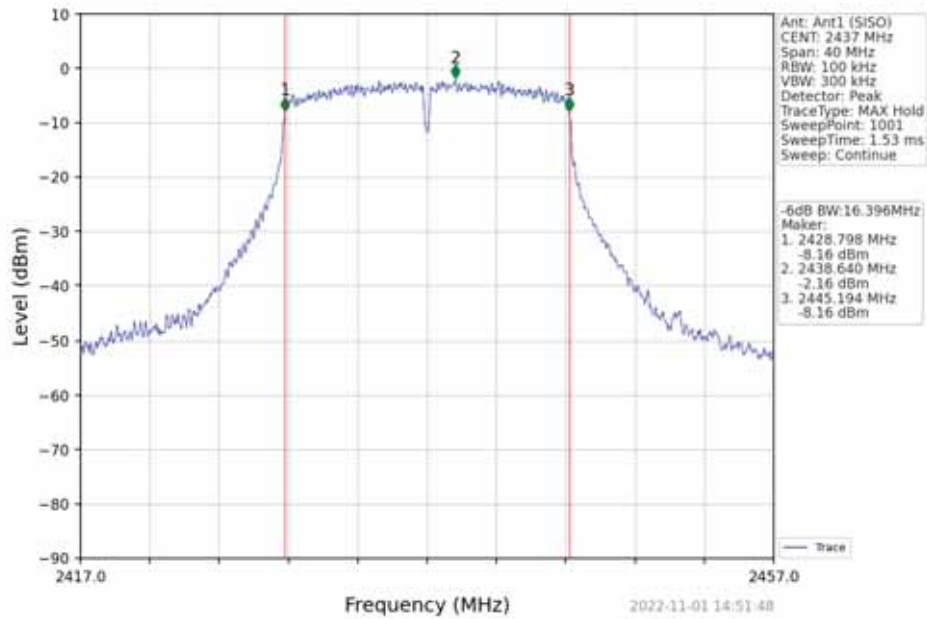
802.11b_HCH_2462MHz_Ant1 (SISO) NTN



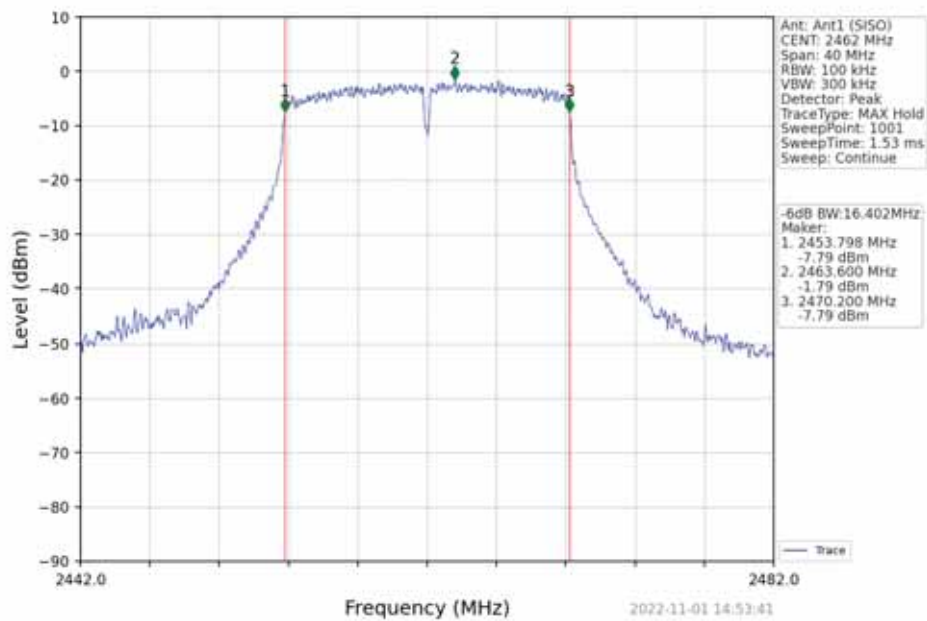
802.11g_LCH_2412MHz_Ant1 (SISO) NTN



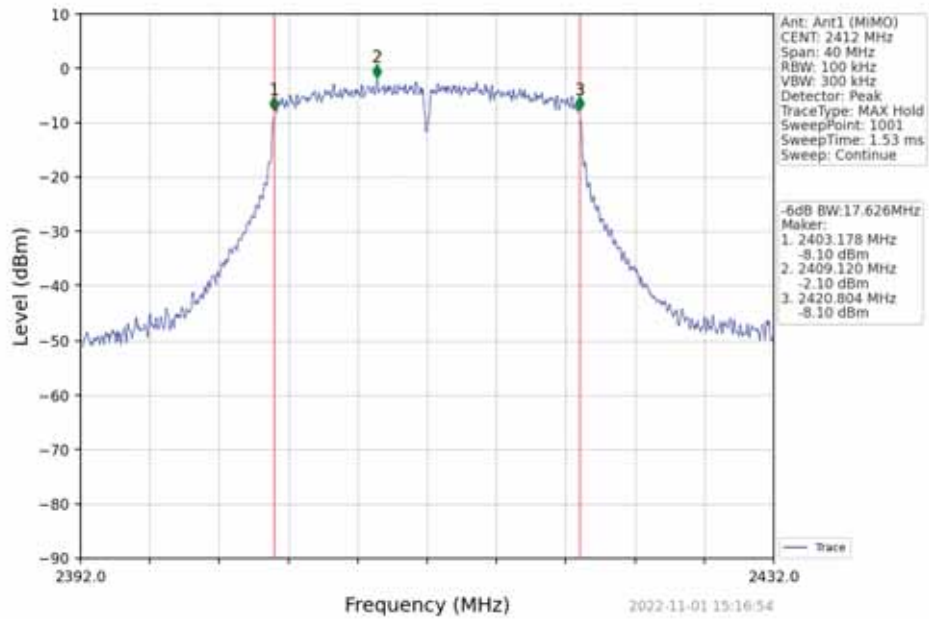
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



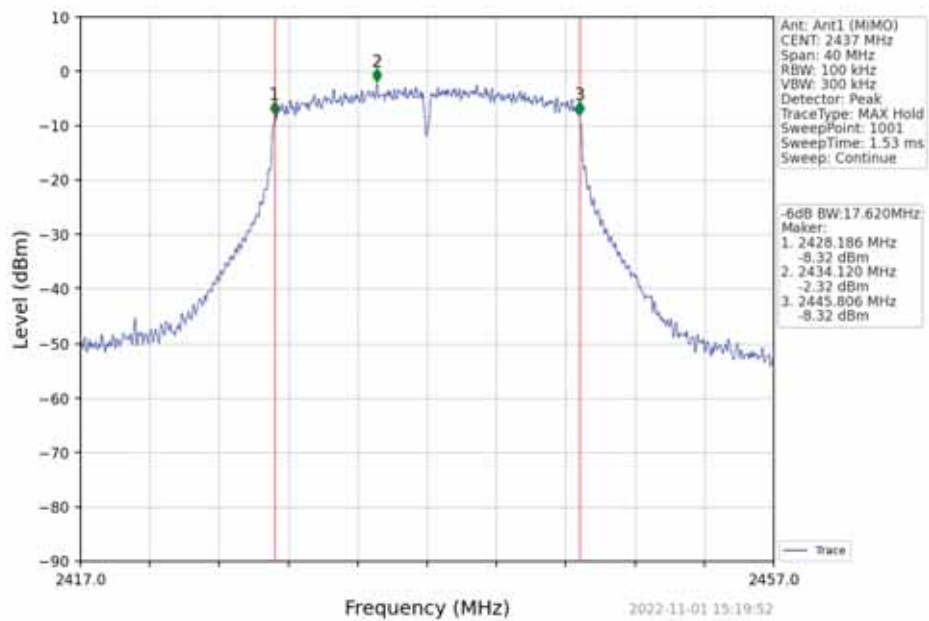
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

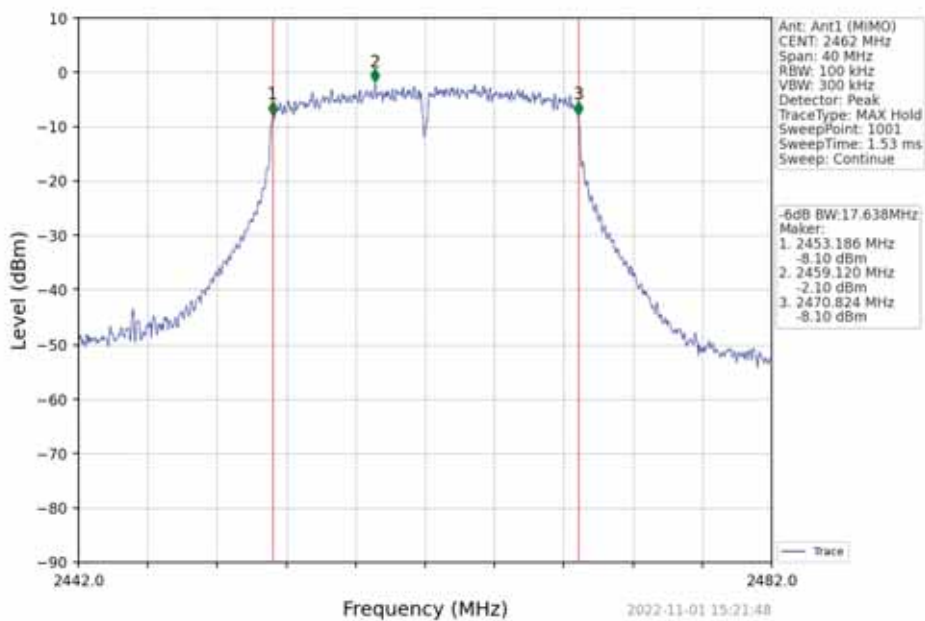


802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

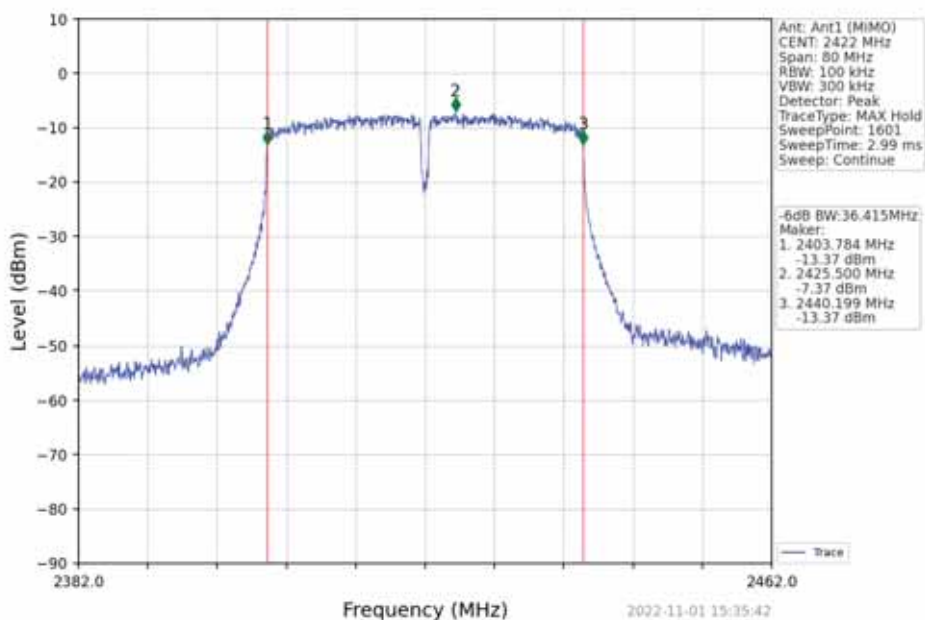




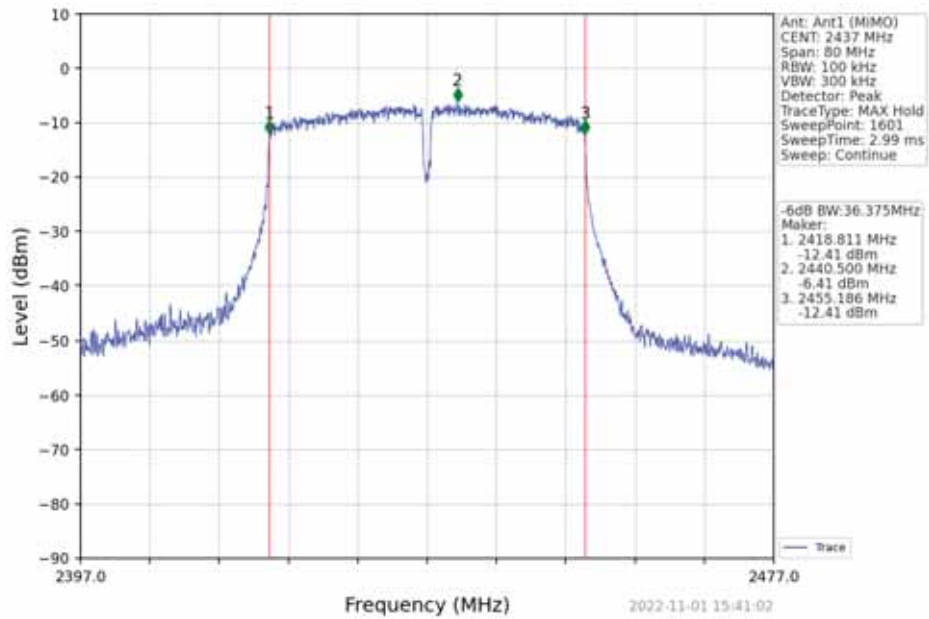
802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTN



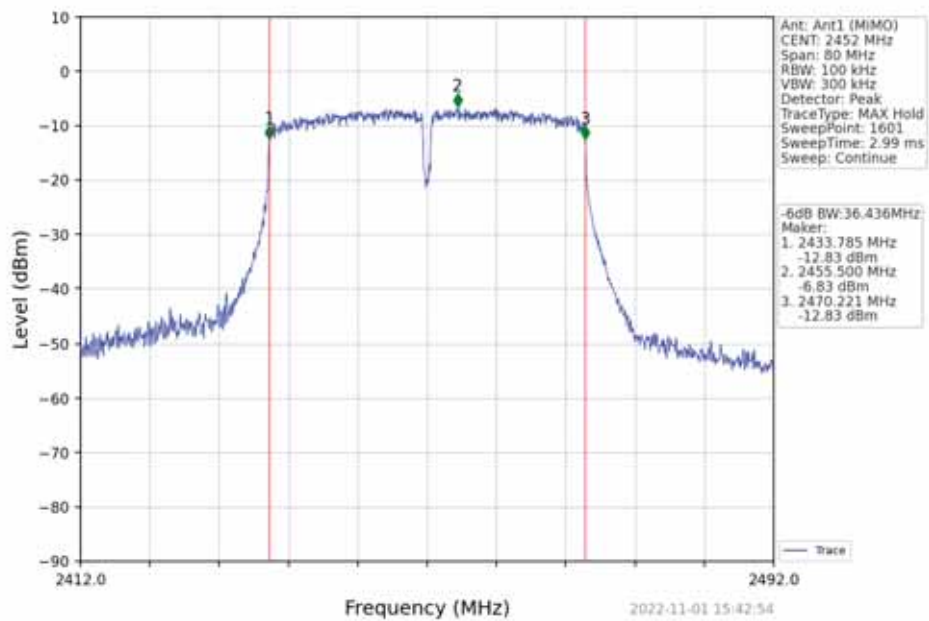
802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTN



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



2. Maximum Conducted Output Power

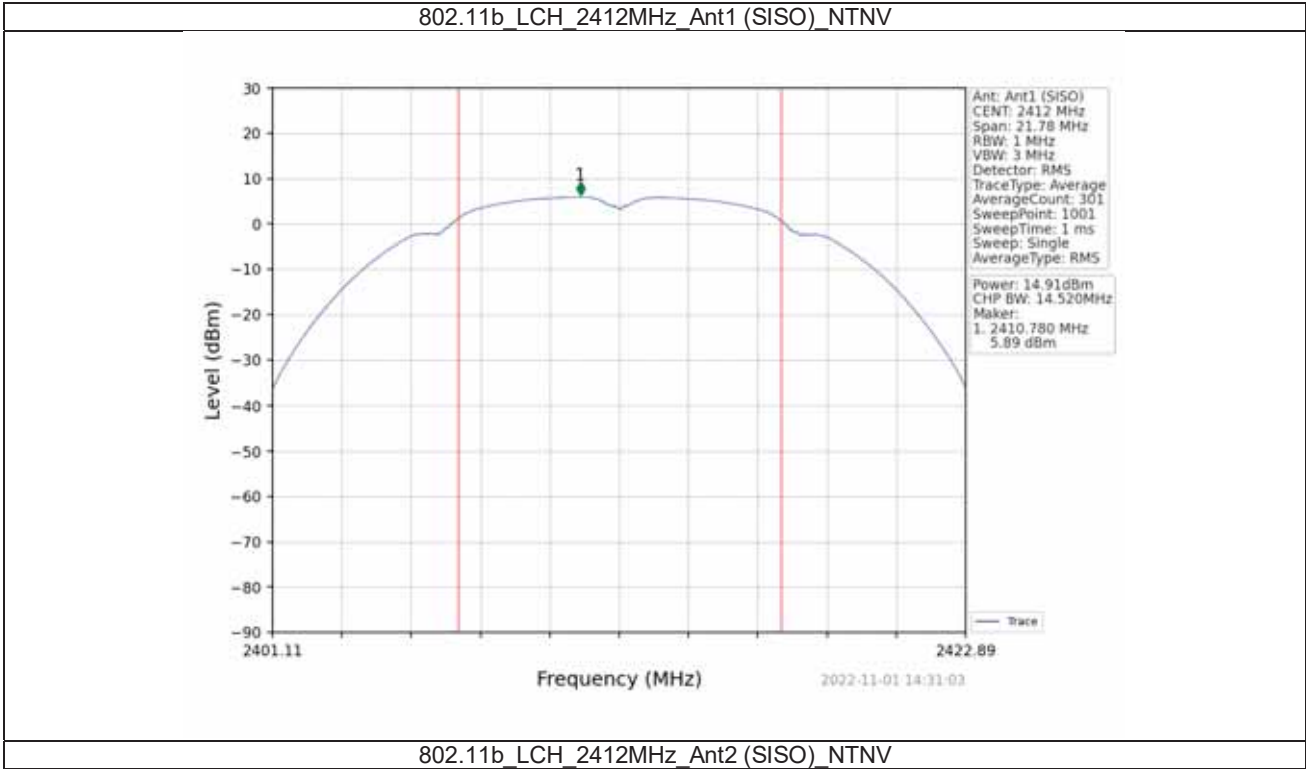
2.1 Power

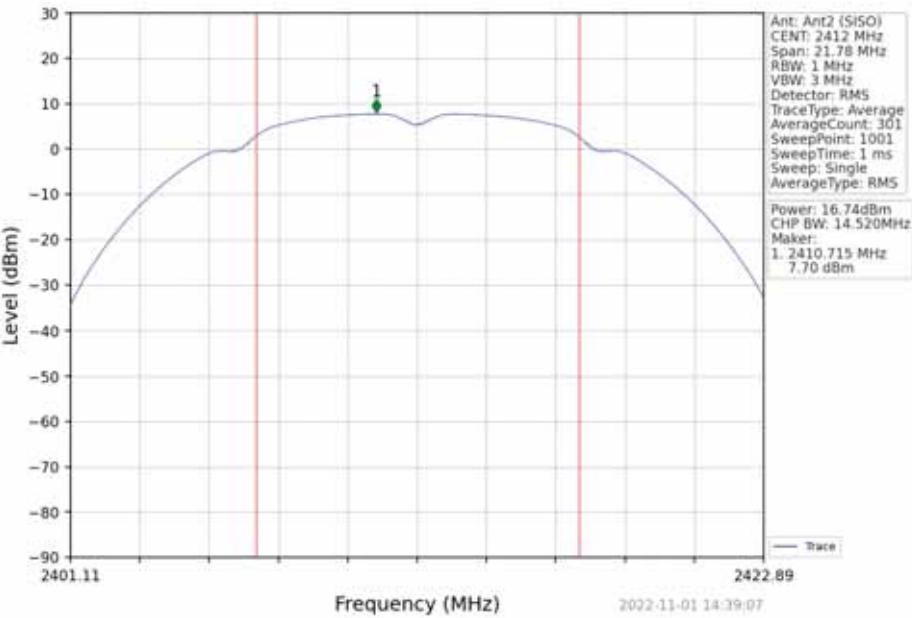
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	14.91	16.74	/	<=30	Pass
		2437	/	/	14.92	16.62	/	<=30	Pass
		2462	/	/	15.24	16.63	/	<=30	Pass
802.11g	SISO	2412	/	/	11.88	13.00	/	<=30	Pass
		2437	/	/	11.80	13.14	/	<=30	Pass
		2462	/	/	12.22	13.03	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	11.47	10.98	14.24	<=27.7	Pass
		2437	/	/	11.25	10.24	13.39	<=27.7	Pass
		2462	/	/	11.64	10.36	14.06	<=27.7	Pass
802.11n (HT40)	MIMO	2422	/	/	10.13	10.41	13.28	<=27.7	Pass
		2437	/	/	10.52	10.34	13.44	<=27.7	Pass
		2452	/	/	10.65	10.30	13.49	<=27.7	Pass
Note1: Antenna Gain: Ant1: 5.02dBi; Ant2: 5.56dBi; Note2: Directional Gain: 8.30dBi;									

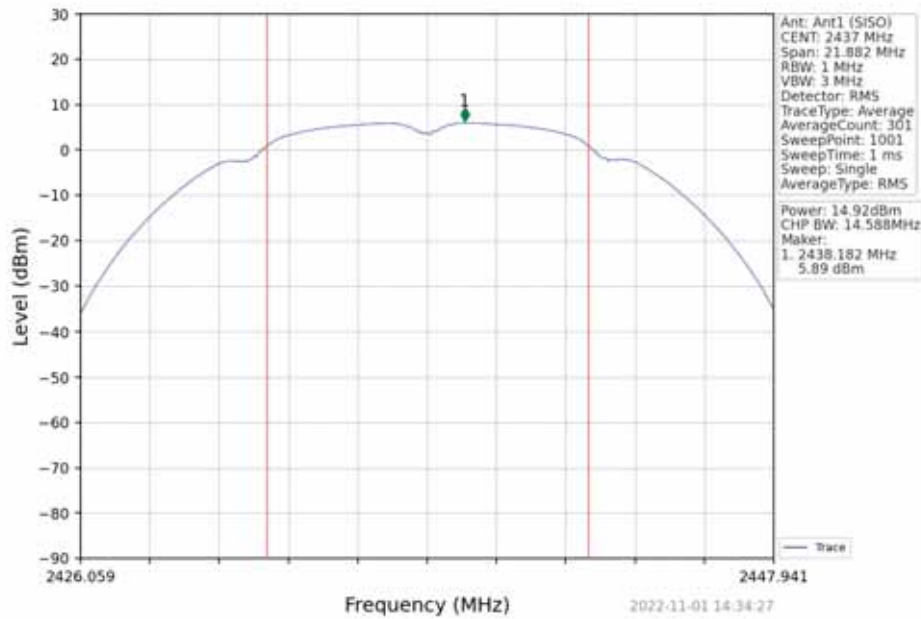


2.1.2 Test Graph

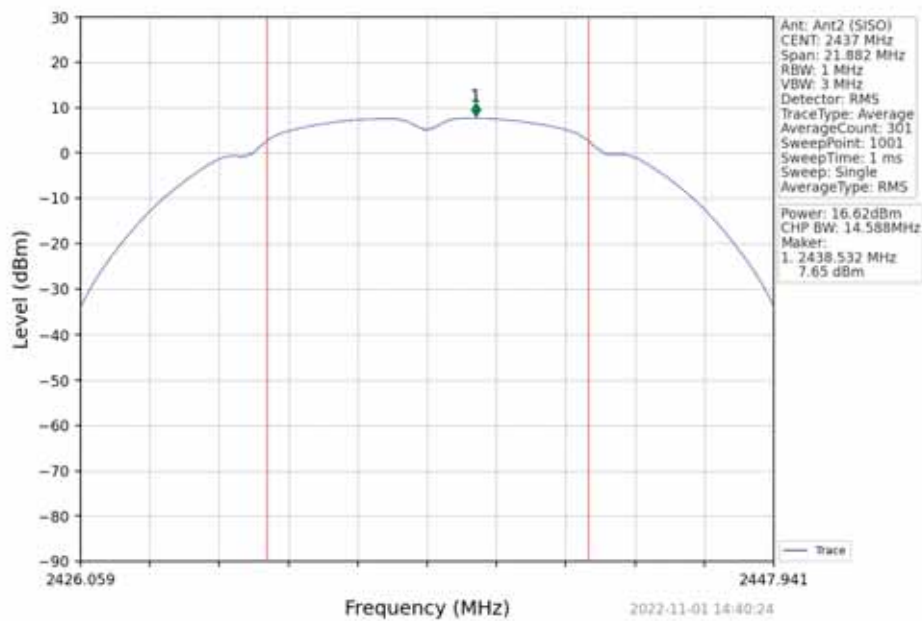




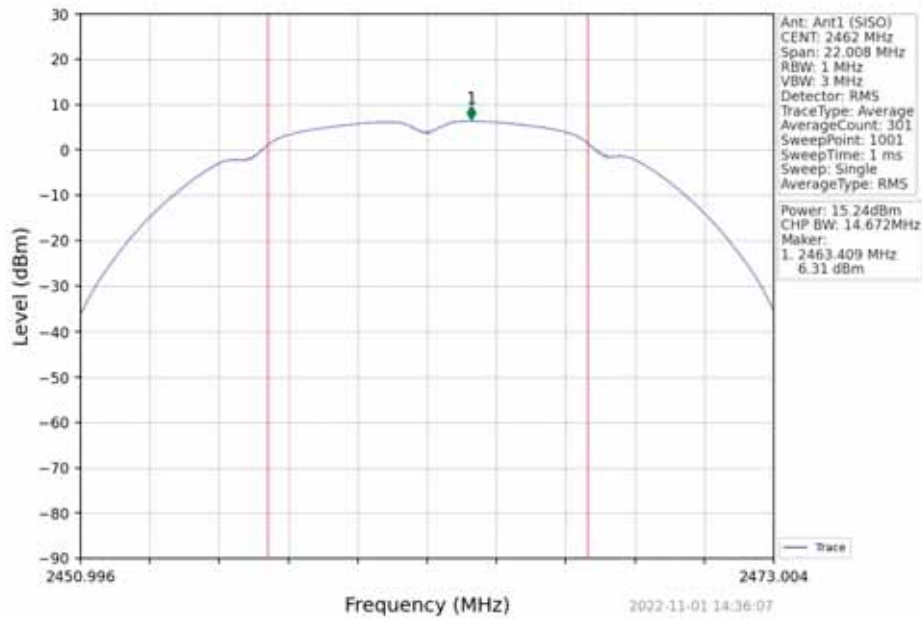
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



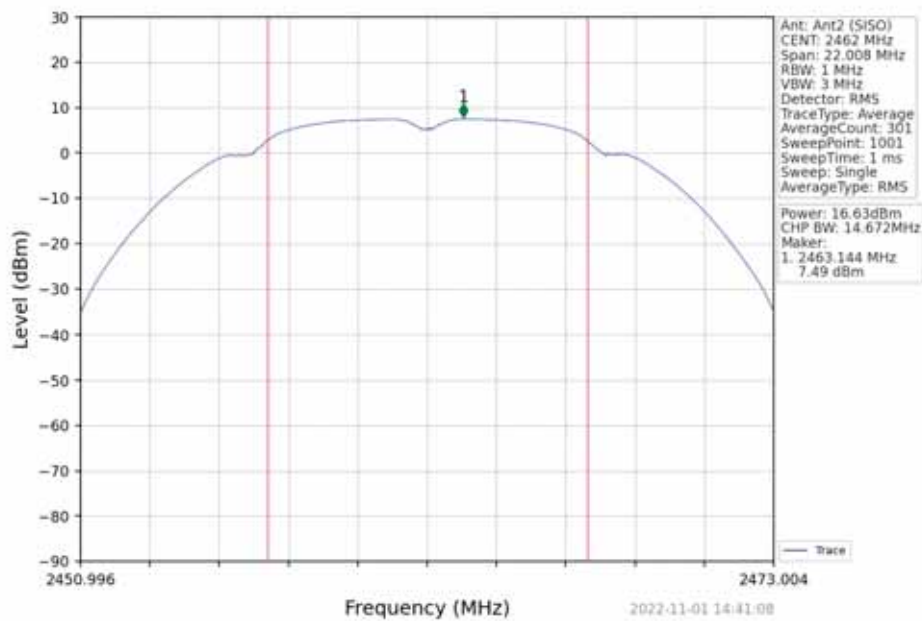
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



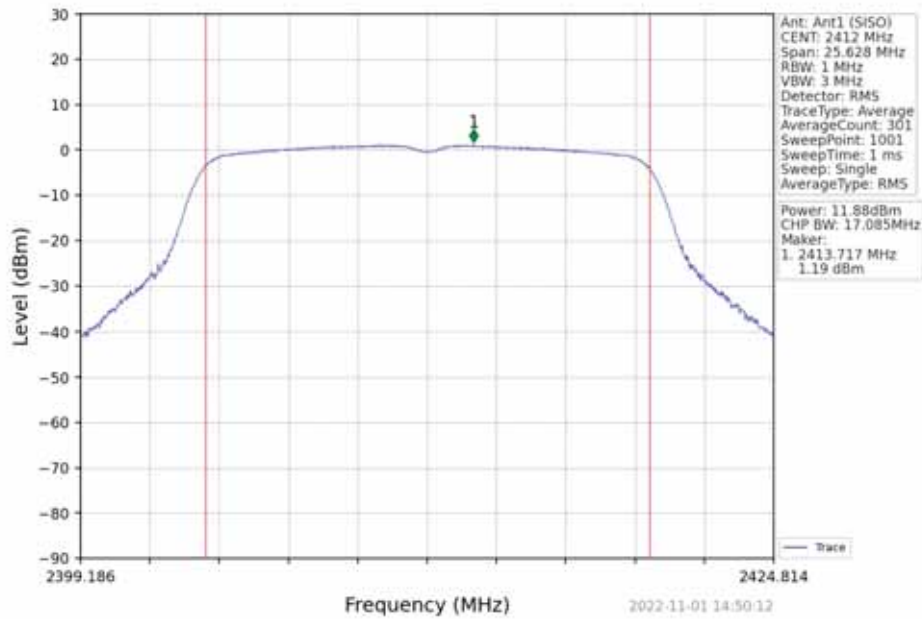
802.11b_HCH_2462MHz_Ant1 (SISO) NTN



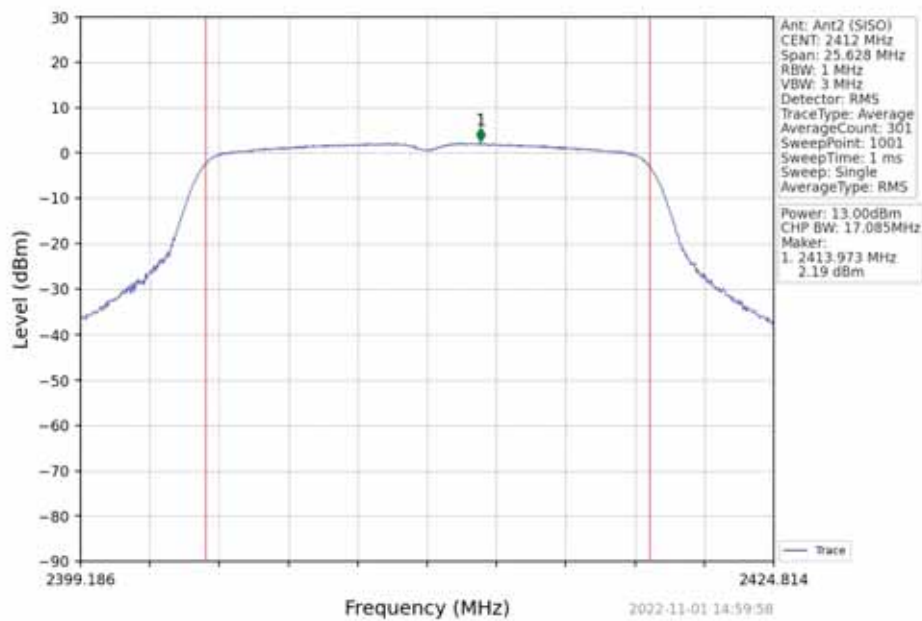
802.11b_HCH_2462MHz_Ant2 (SISO) NTN



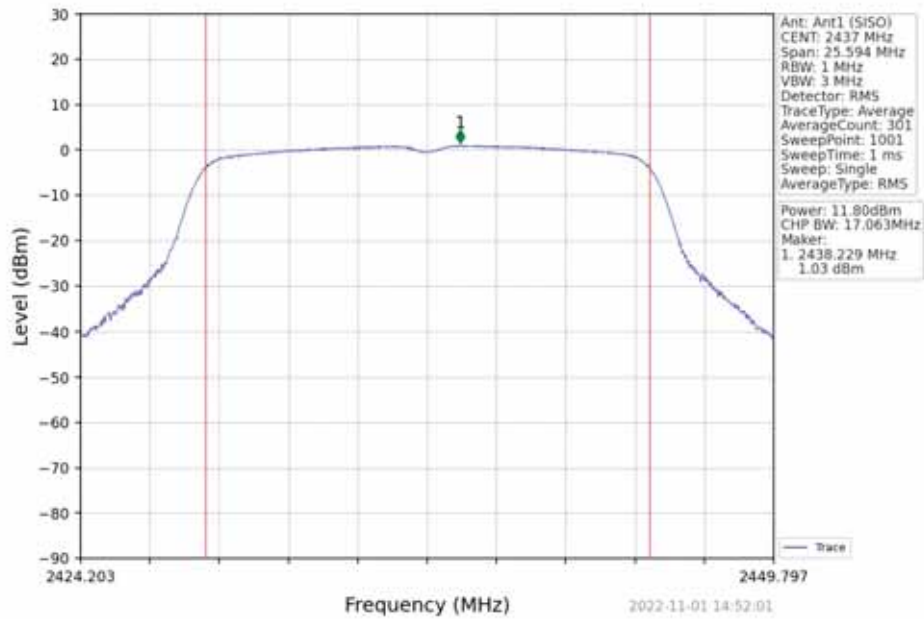
802.11g_LCH_2412MHz_Ant1 (SISO) NTN



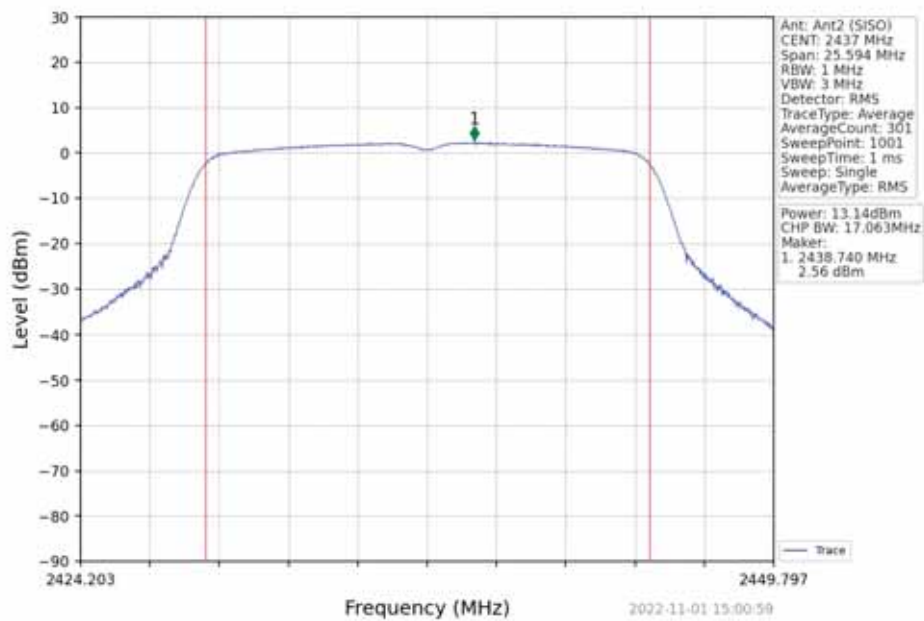
802.11g_LCH_2412MHz_Ant2 (SISO) NTN



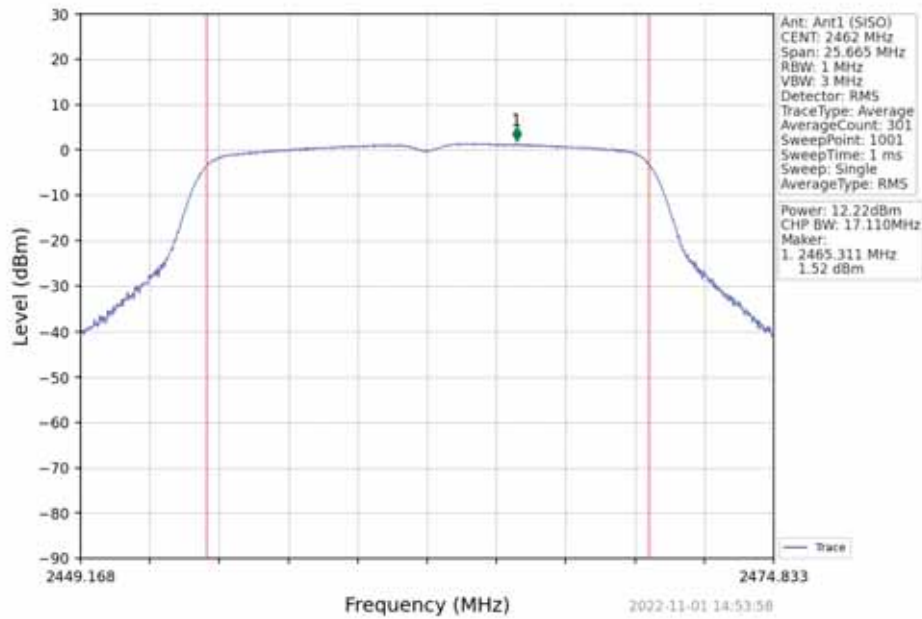
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



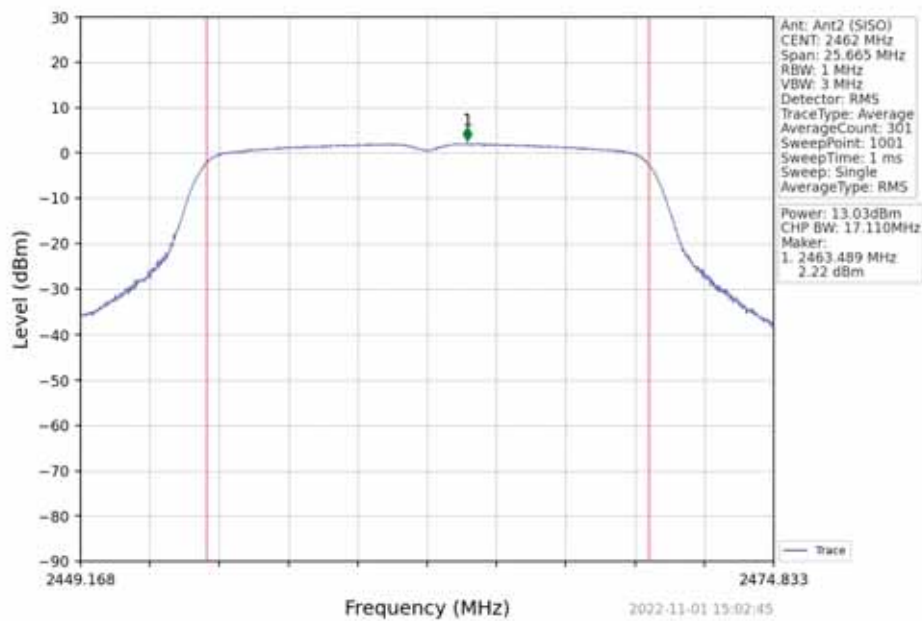
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



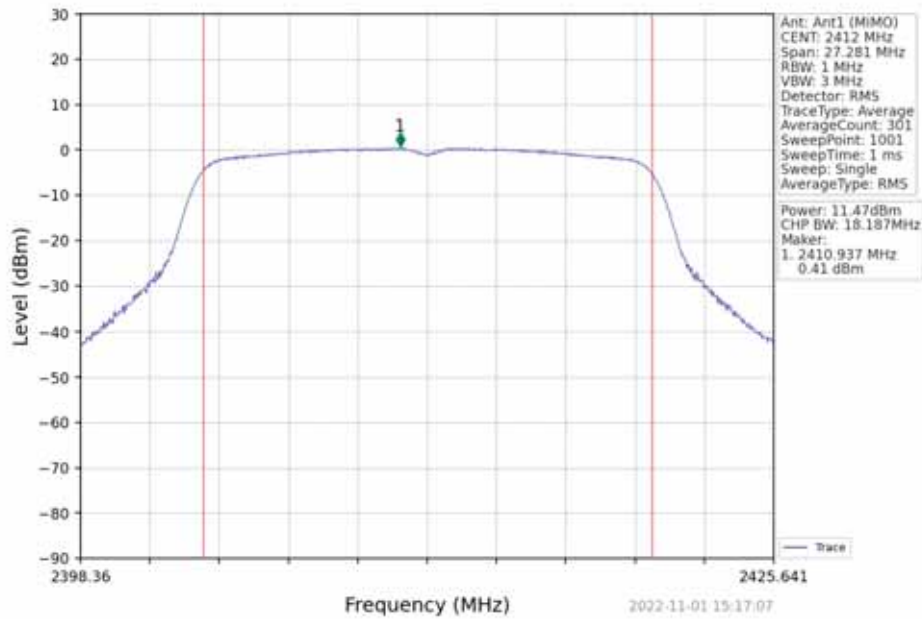
802.11g_HCH_2462MHz_Ant1 (SISO) NTN



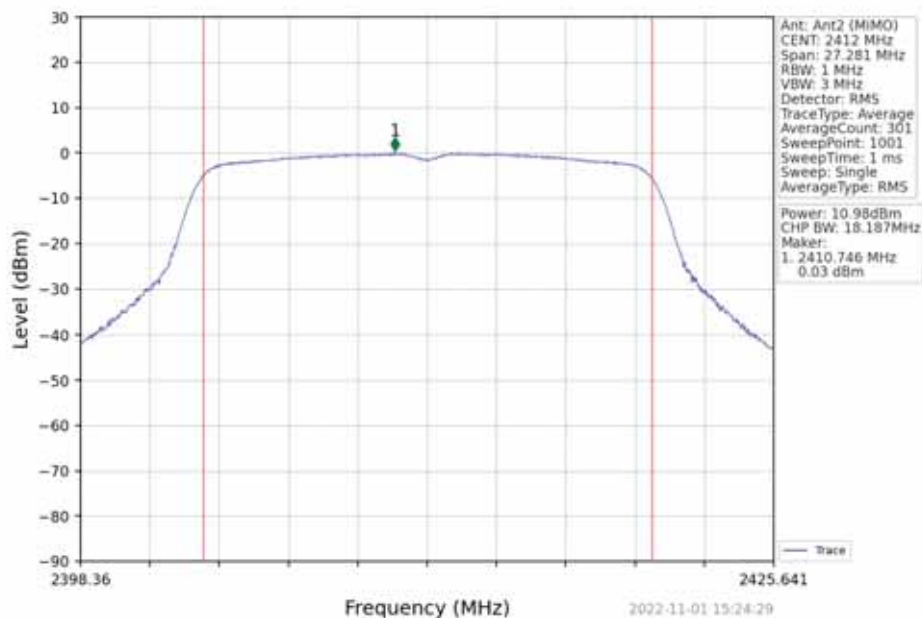
802.11g_HCH_2462MHz_Ant2 (SISO) NTN



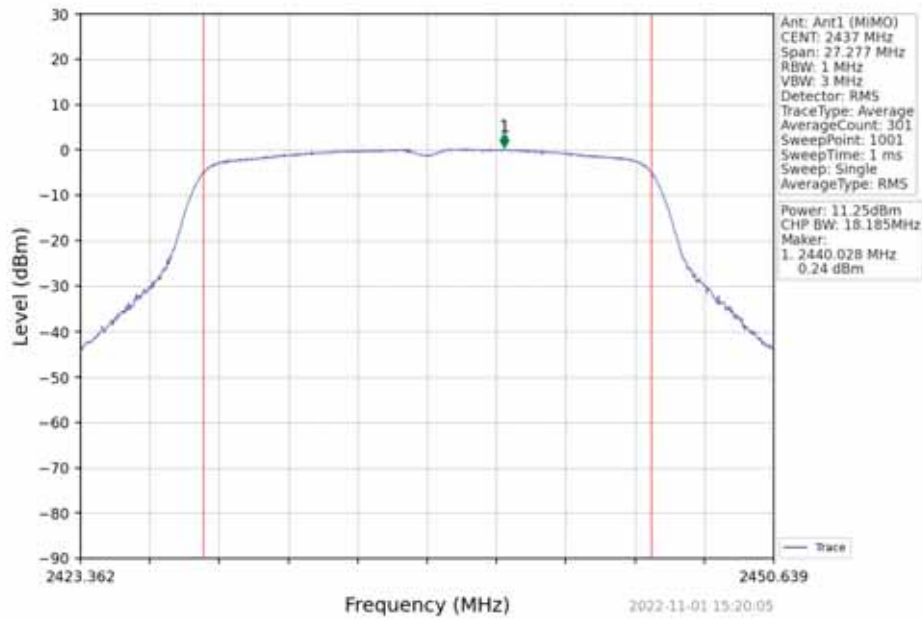
802.11n(HT20) LCH 2412MHz_Ant1 (MIMO) NTN



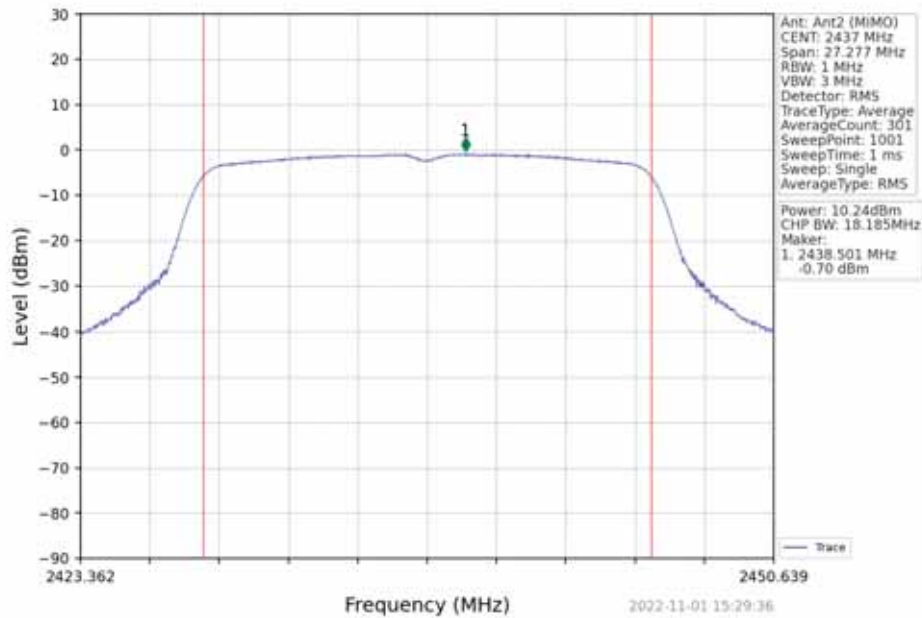
802.11n(HT20) LCH 2412MHz_Ant2 (MIMO) NTN



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

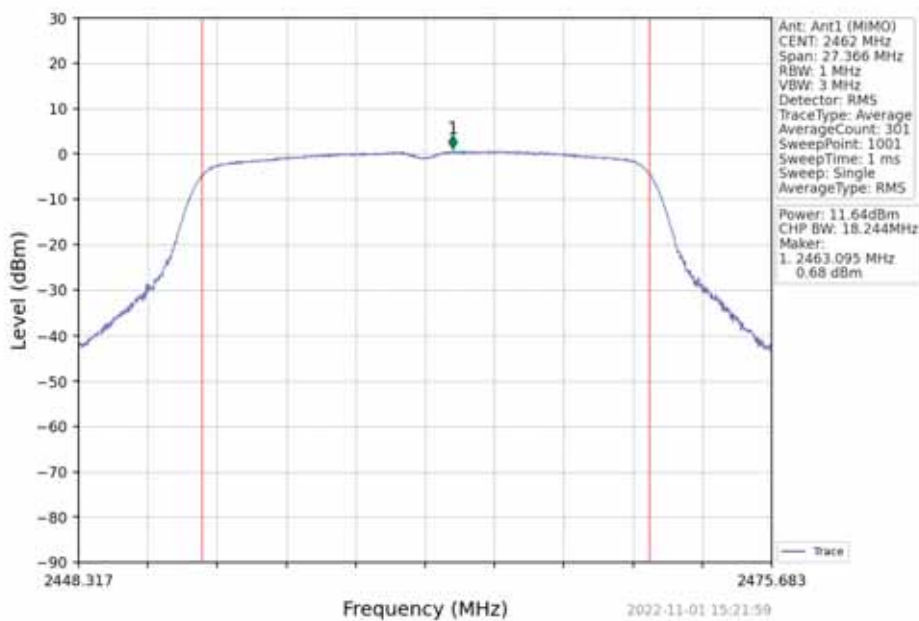


802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV

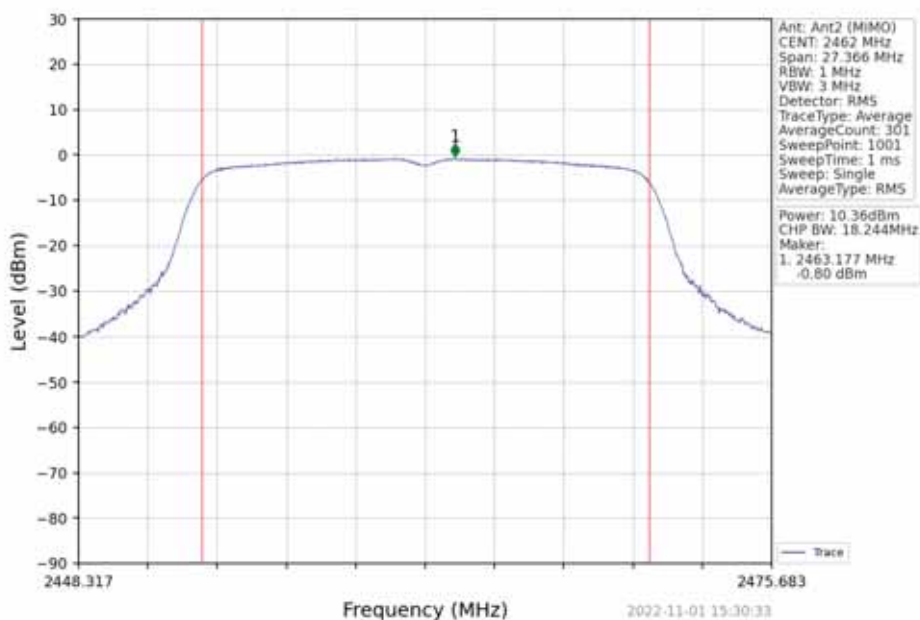




802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV

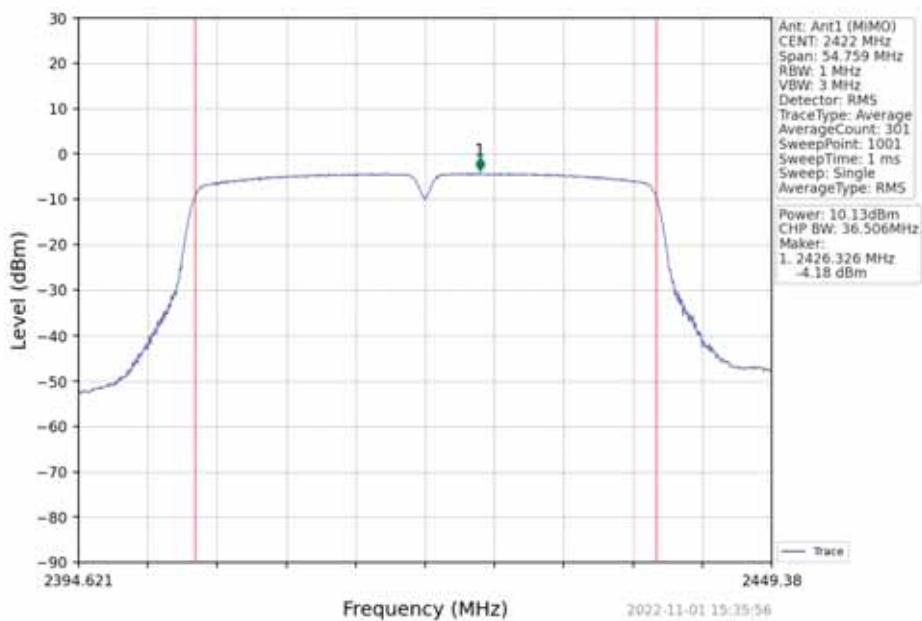


802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV

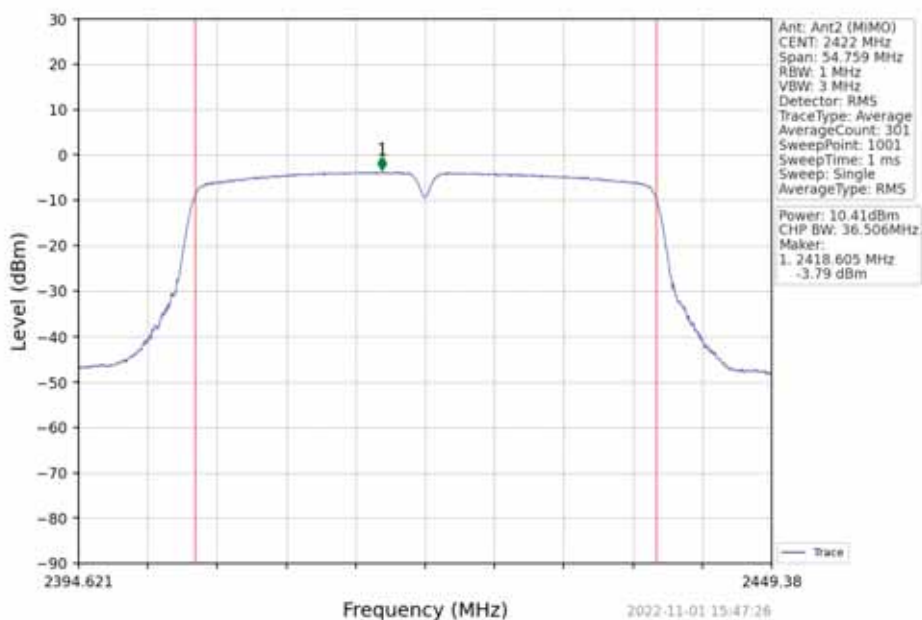




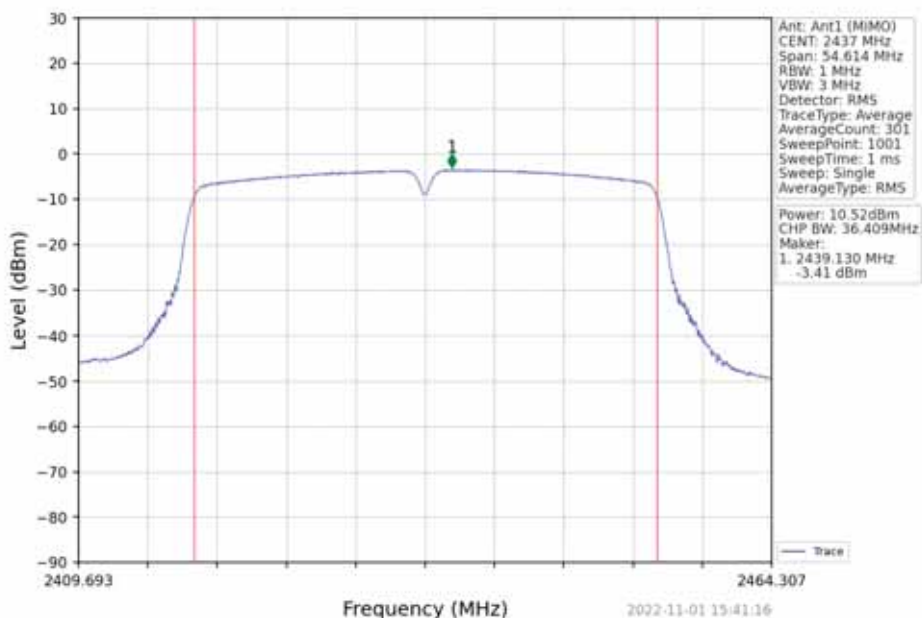
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



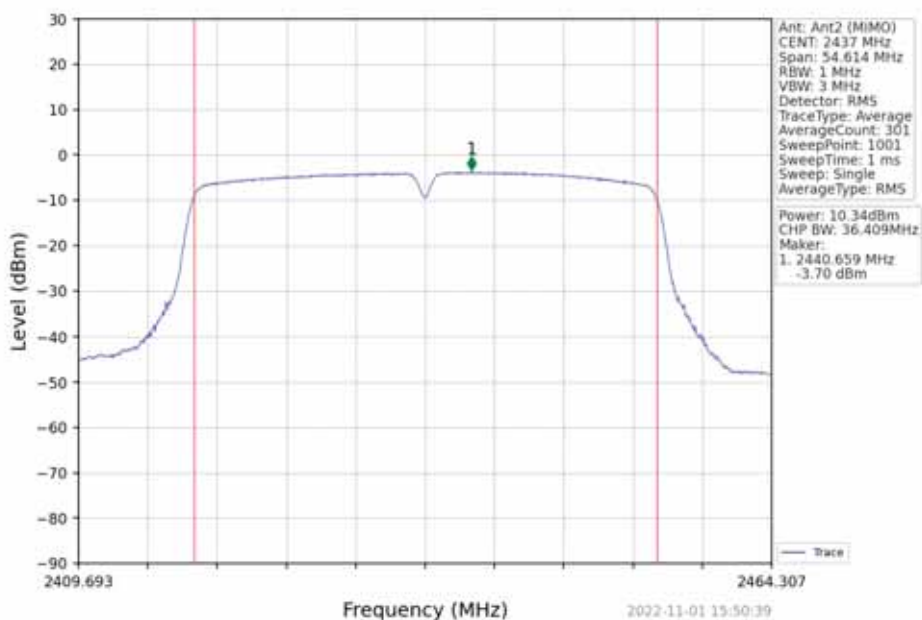
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



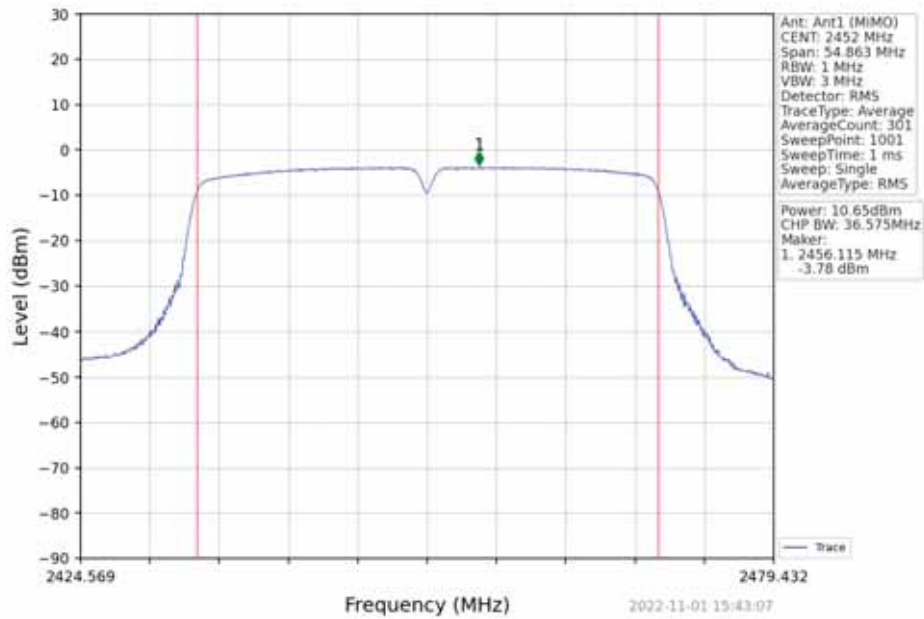
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



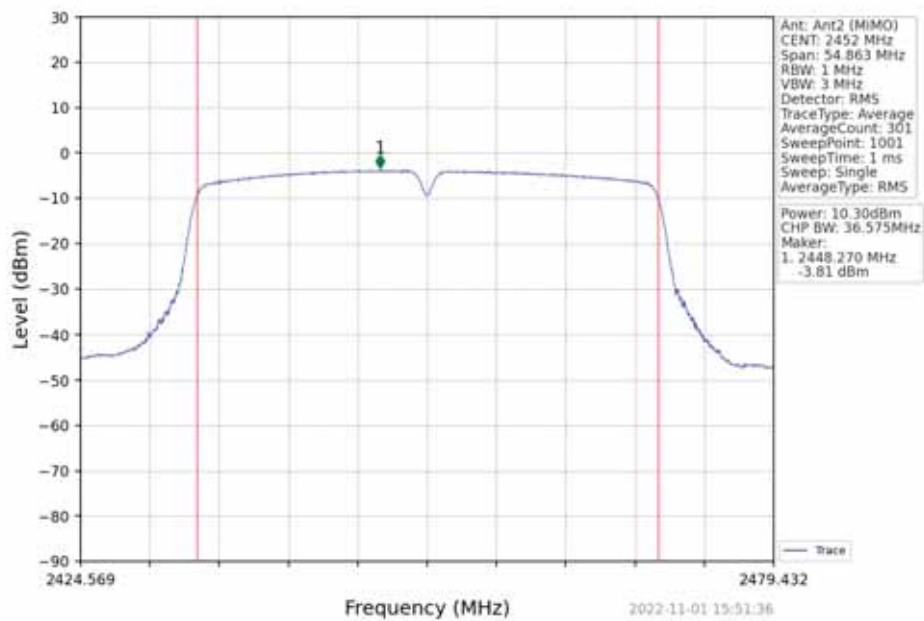
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV



3. Maximum Power Spectral Density

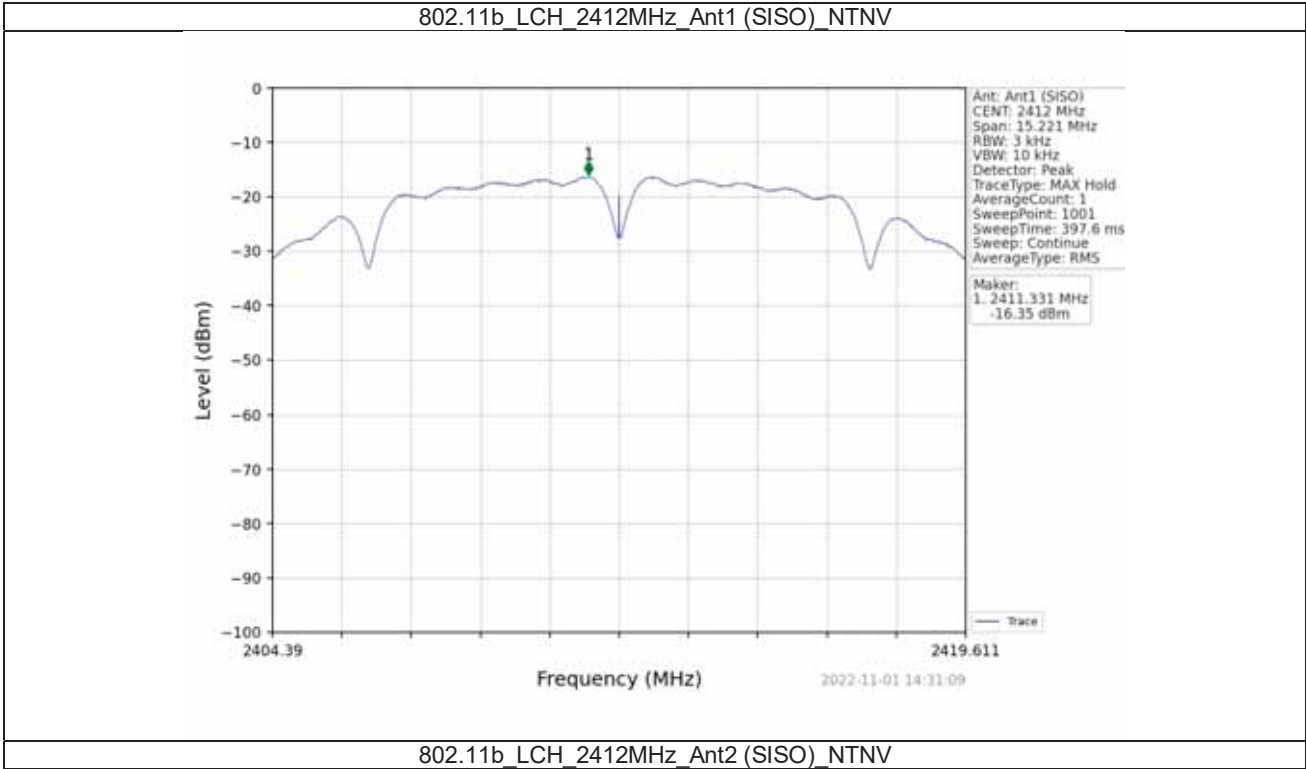
3.1 PSD

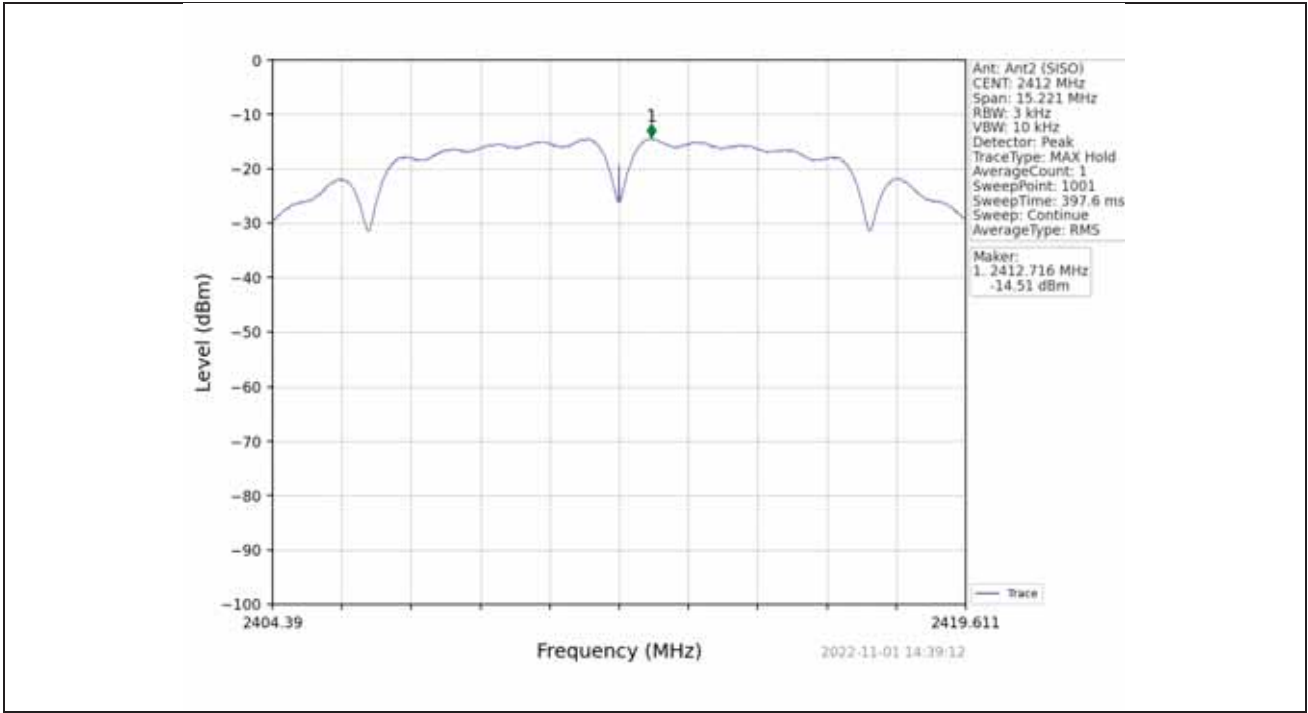
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	-16.35	-14.51	/	<=8	Pass
		2437	/	/	-16.31	-14.73	/	<=8	Pass
		2462	/	/	-15.98	-14.71	/	<=8	Pass
802.11g	SISO	2412	/	/	-16.82	-15.60	/	<=8	Pass
		2437	/	/	-16.77	-15.53	/	<=8	Pass
		2462	/	/	-16.55	-15.83	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-16.94	-17.91	-14.39	<=5.7	Pass
		2437	/	/	-16.43	-17.64	-14.18	<=5.7	Pass
		2462	/	/	-16.44	-17.88	-14.31	<=5.7	Pass
802.11n (HT40)	MIMO	2422	/	/	-19.67	-19.29	-16.47	<=5.7	Pass
		2437	/	/	-19.66	-19.48	-16.56	<=5.7	Pass
		2452	/	/	-19.47	-20.31	-16.94	<=5.7	Pass
Note1: Antenna Gain: Ant1: 5.02dBi; Ant2: 5.56dBi; Note2: Directional Gain: 8.30dBi;									

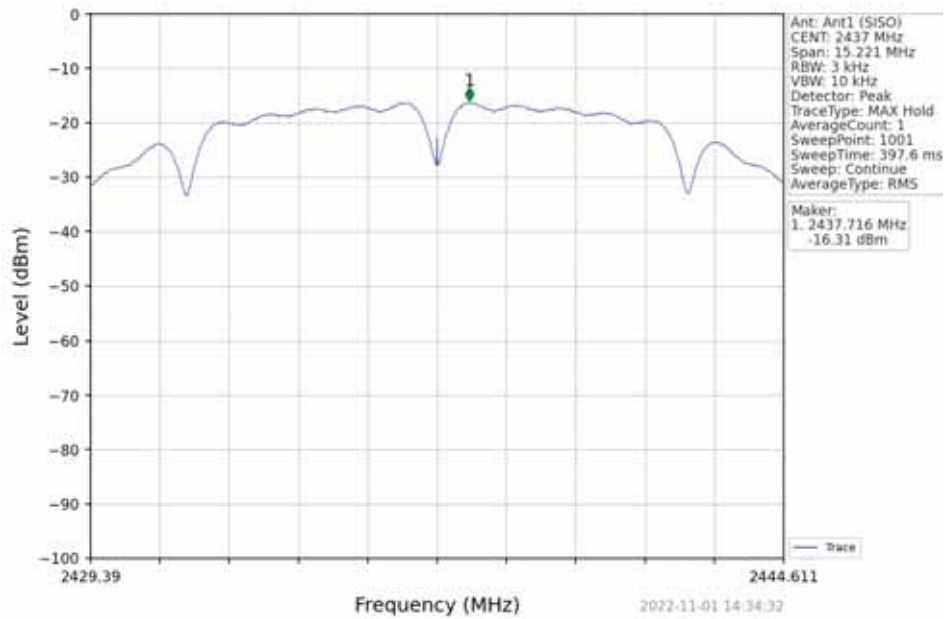


3.1.2 Test Graph

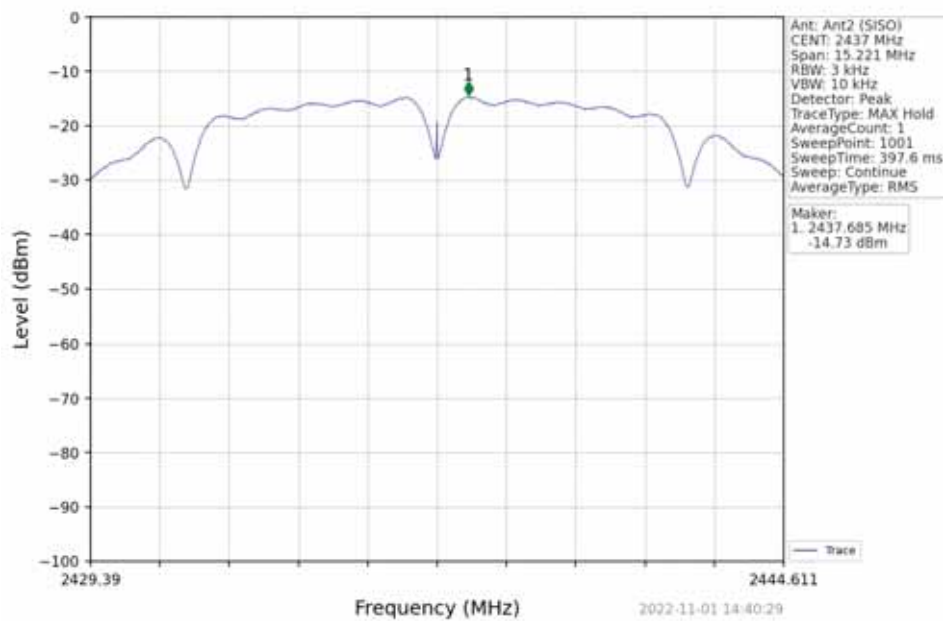




802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

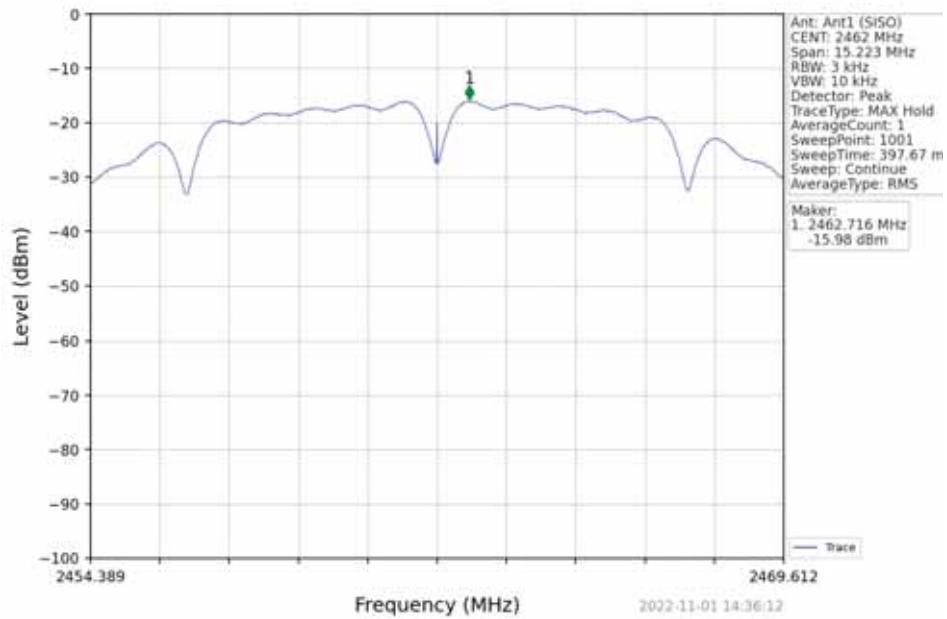


802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

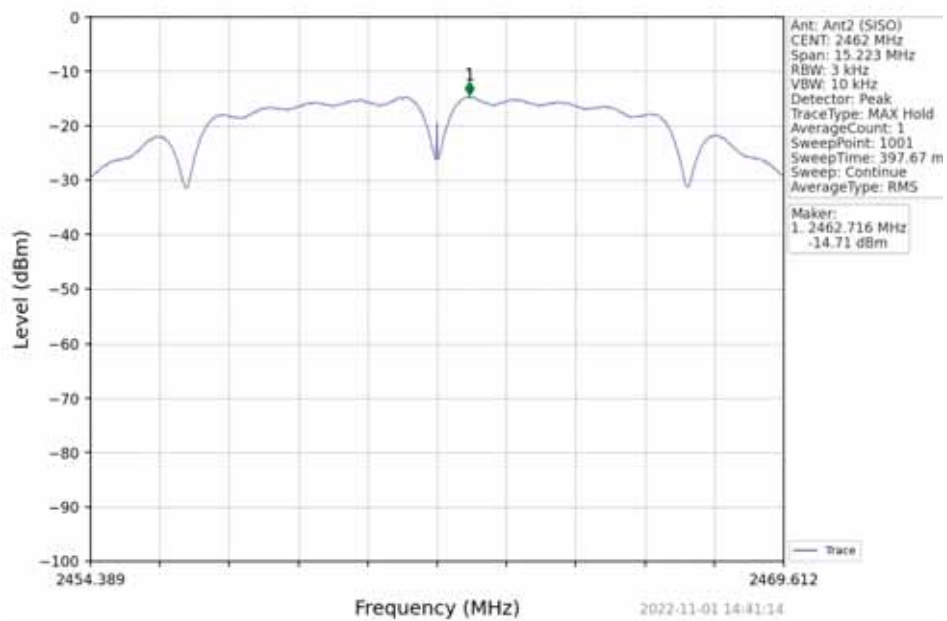




802.11b_HCH_2462MHz_Ant1 (SISO) NTNV

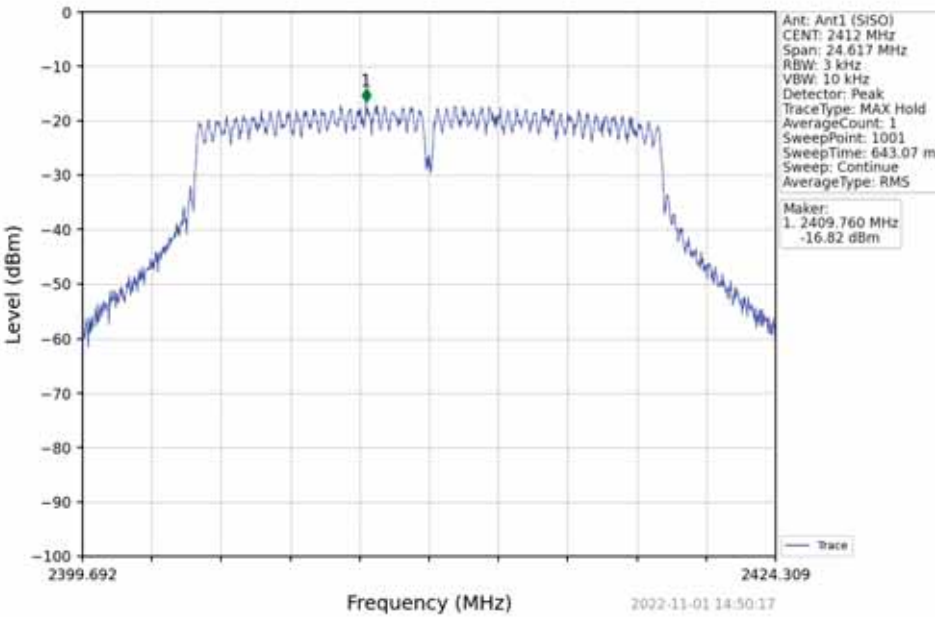


802.11b_HCH_2462MHz_Ant2 (SISO) NTNV

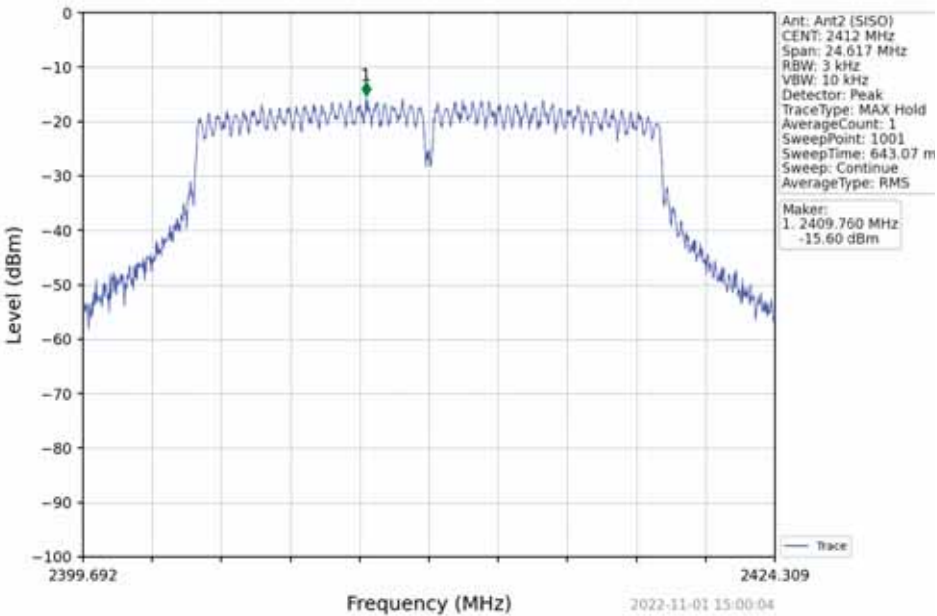




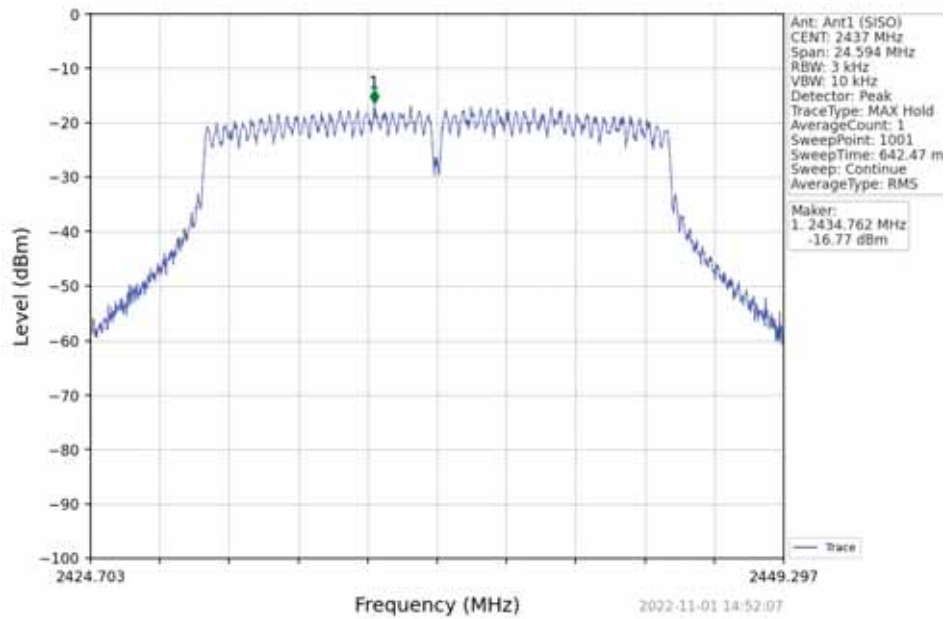
802.11g_LCH_2412MHz_Ant1 (SISO) NTN



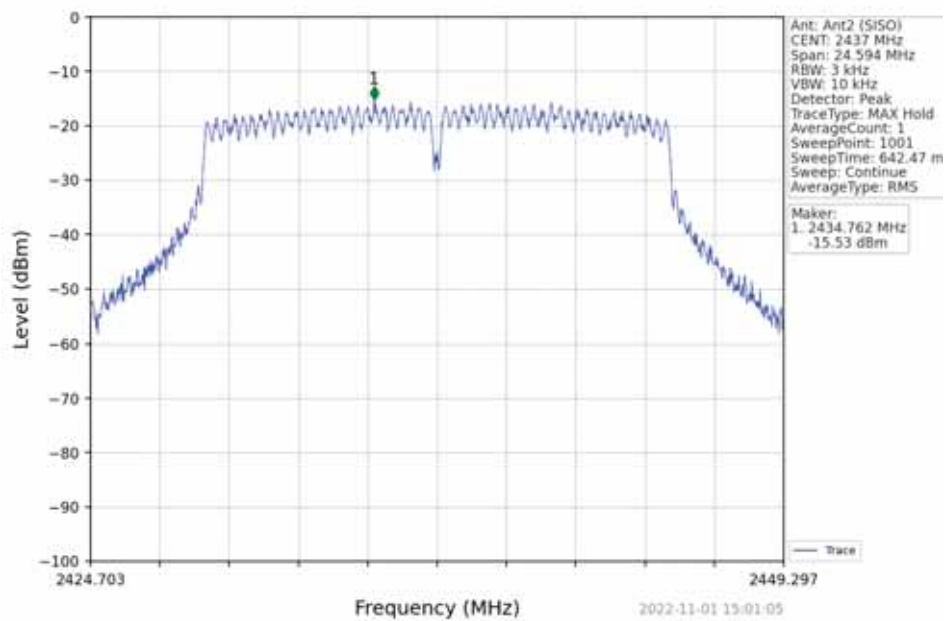
802.11g_LCH_2412MHz_Ant2 (SISO) NTN



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

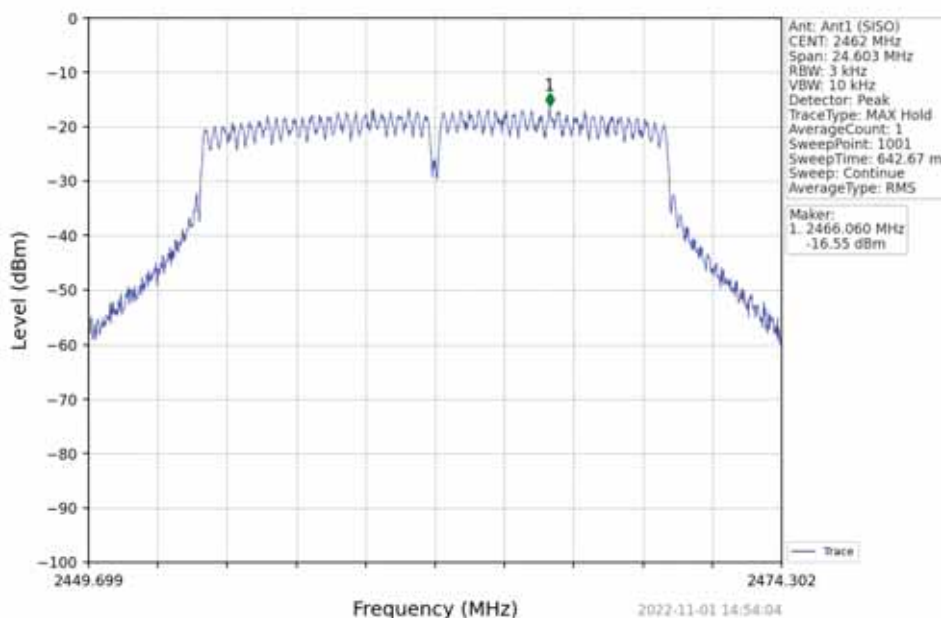


802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV

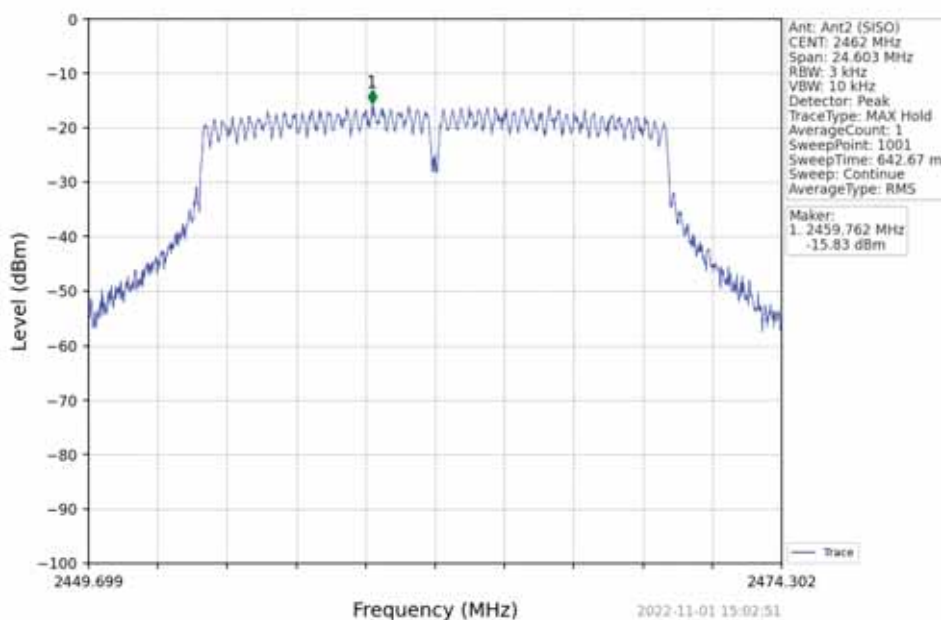




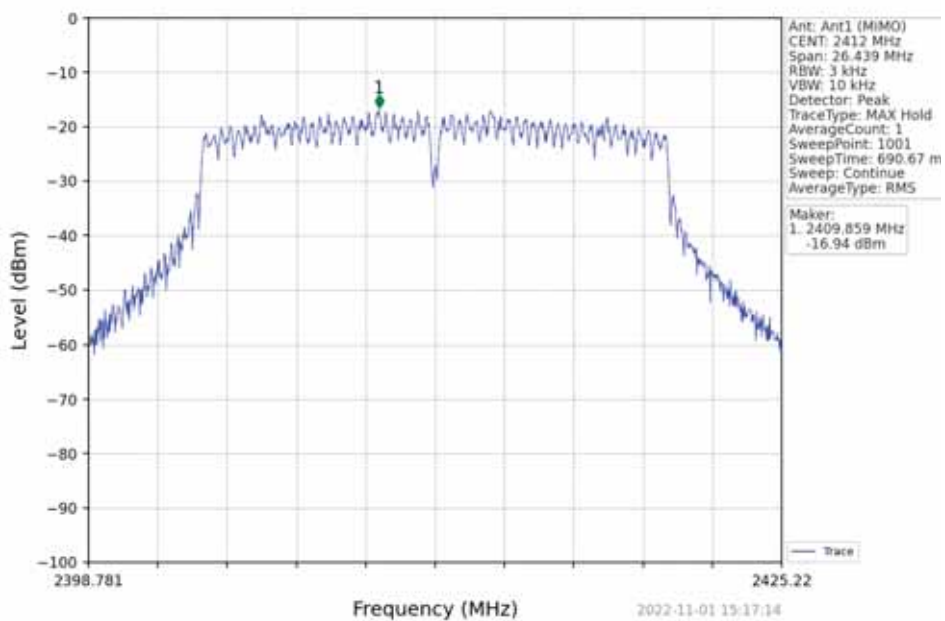
802.11g_HCH_2462MHz_Ant1 (SISO) NTNV



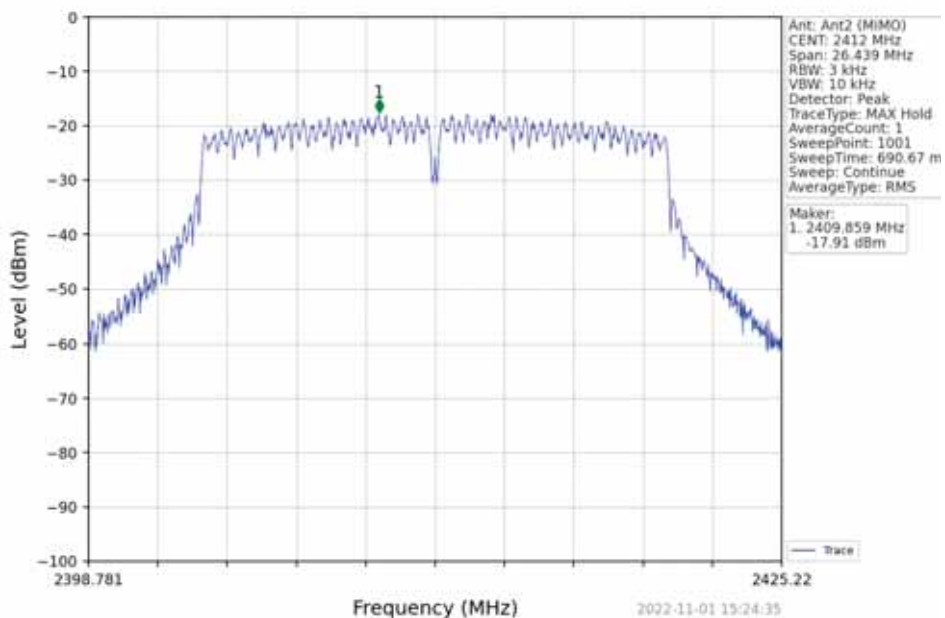
802.11g_HCH_2462MHz_Ant2 (SISO) NTNV



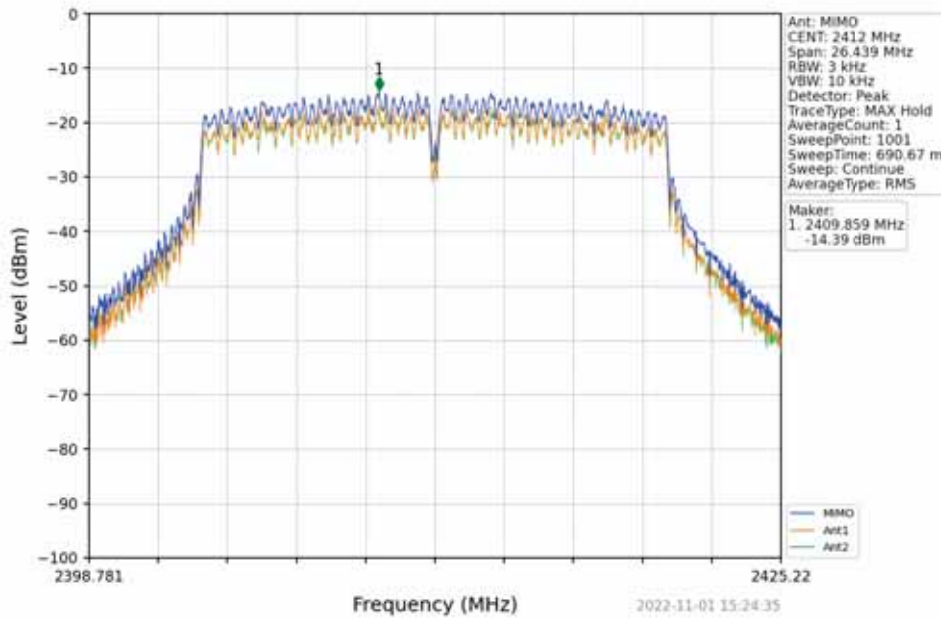
802.11n(HT20) LCH 2412MHz_Ant1 (MIMO) NTN



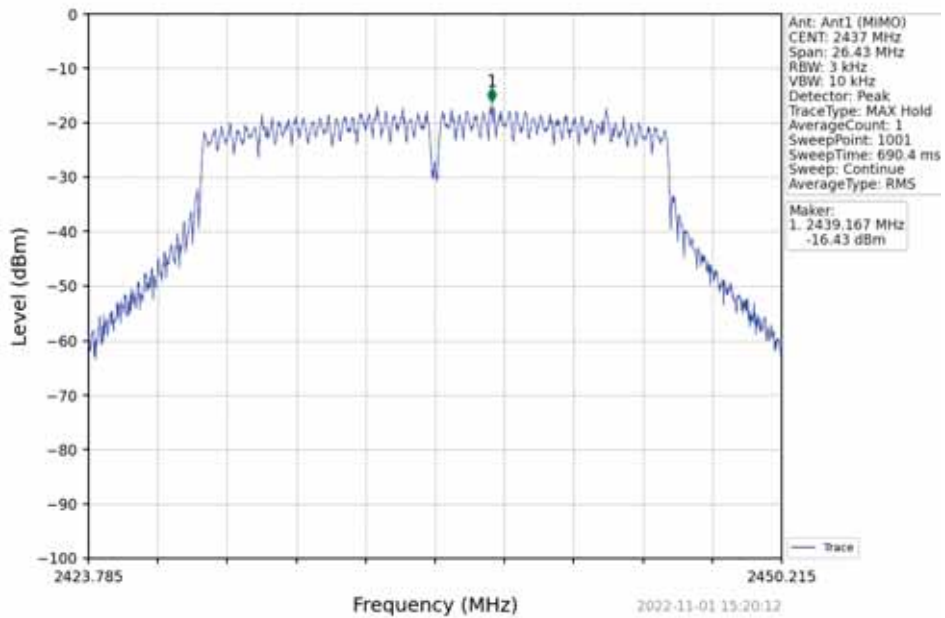
802.11n(HT20) LCH 2412MHz_Ant2 (MIMO) NTN



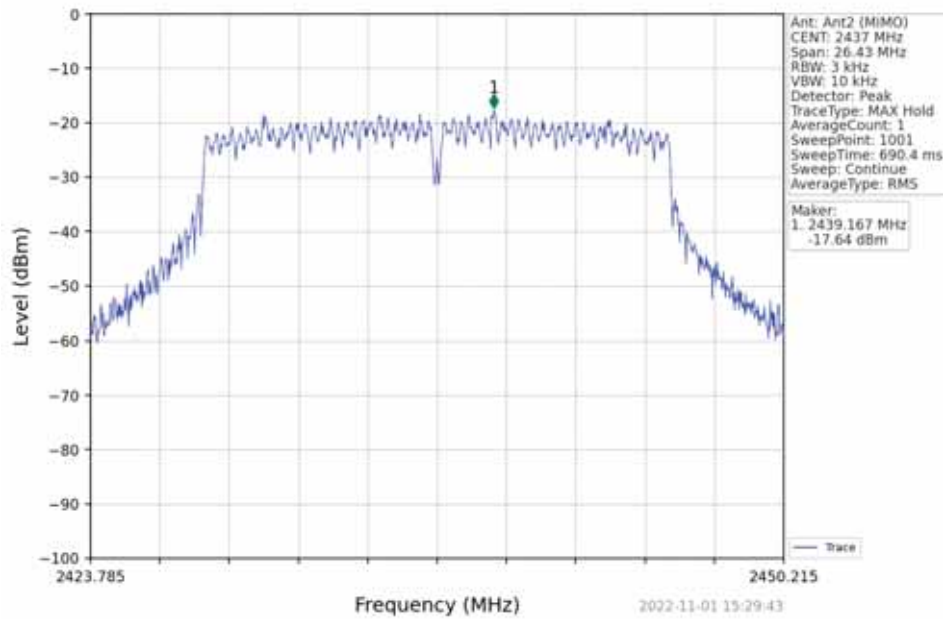
802.11n(HT20) LCH_2412MHz_MIMO_NTNV



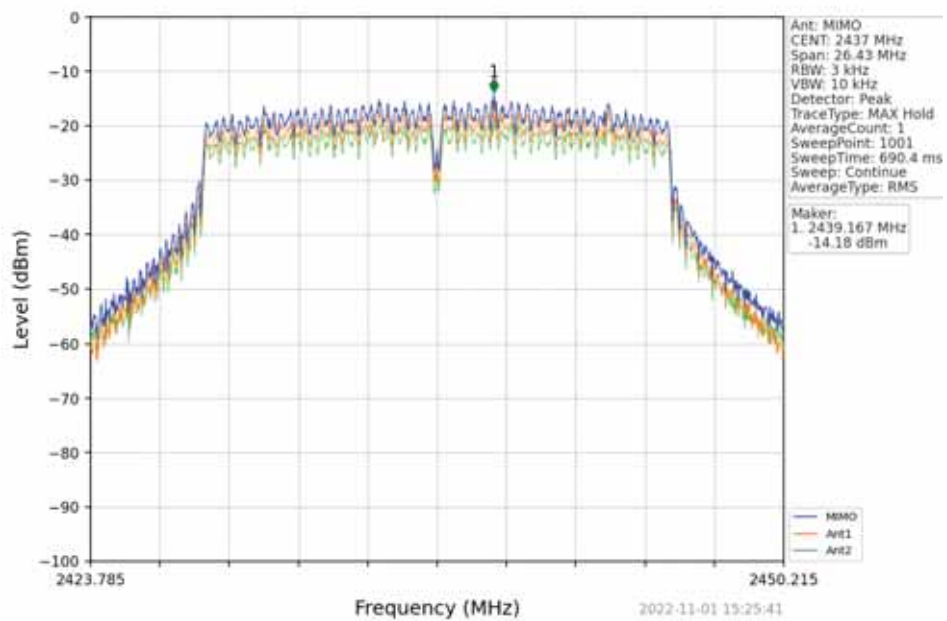
802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



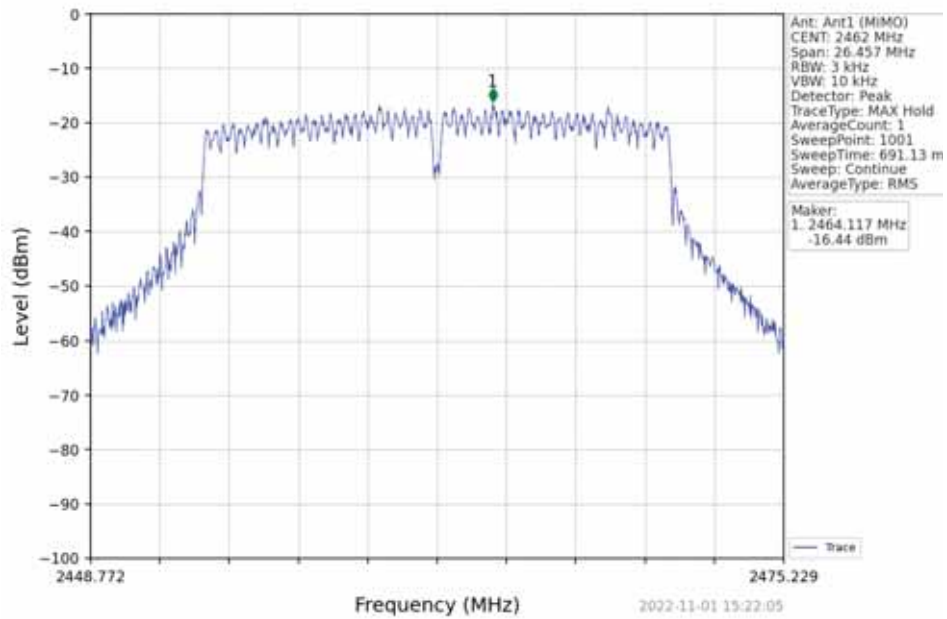
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



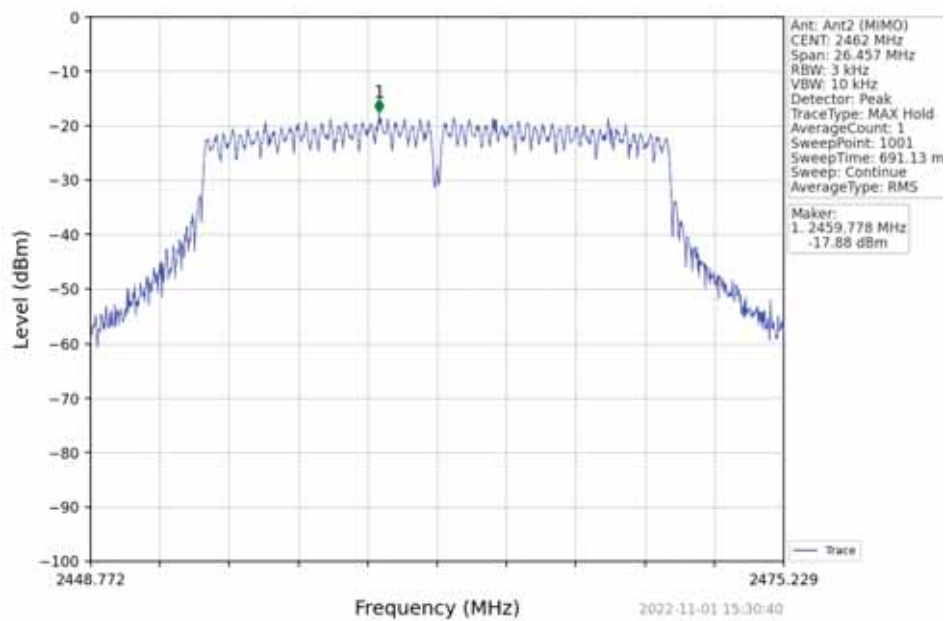
802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



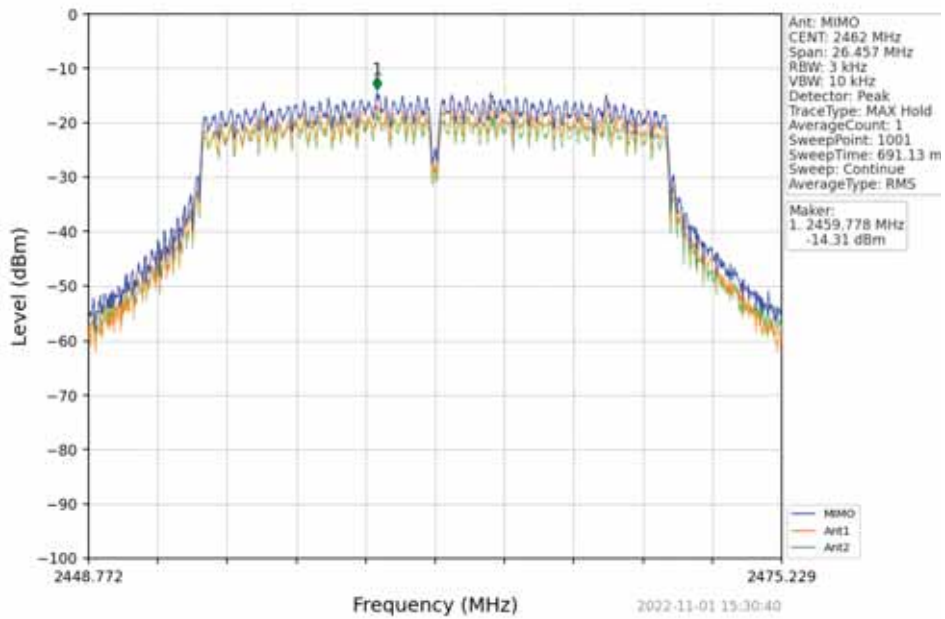
802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



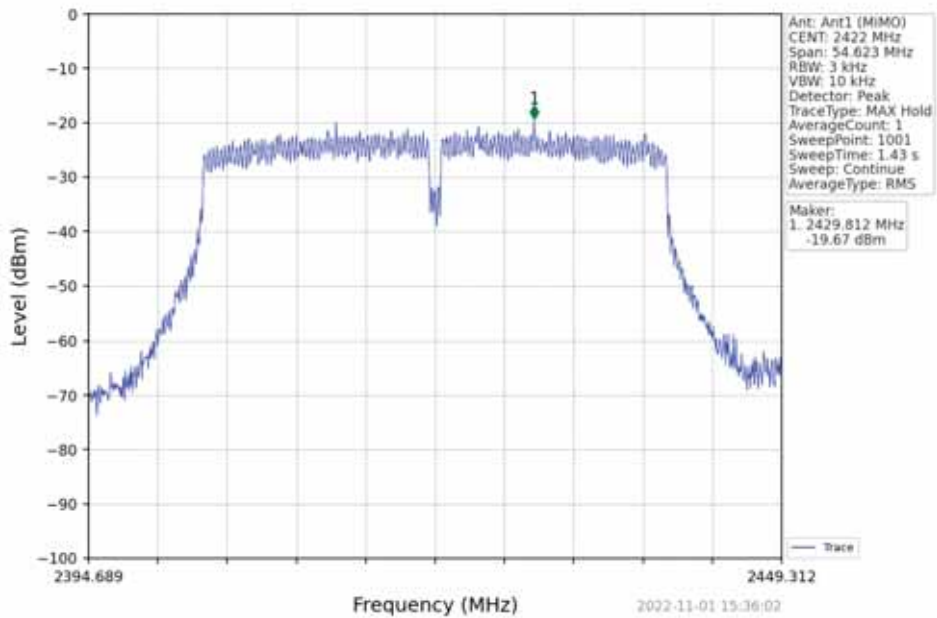
802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



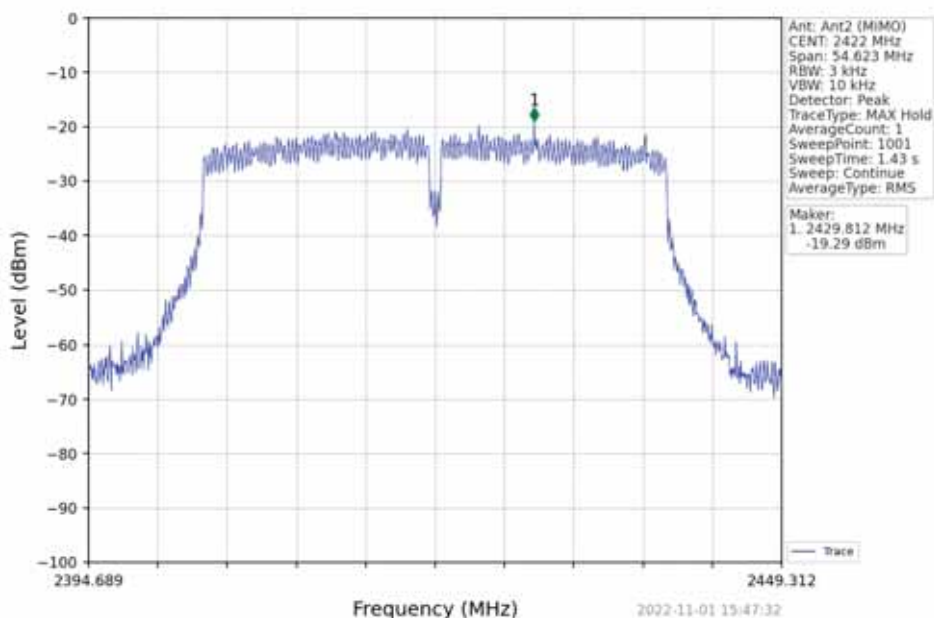
802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



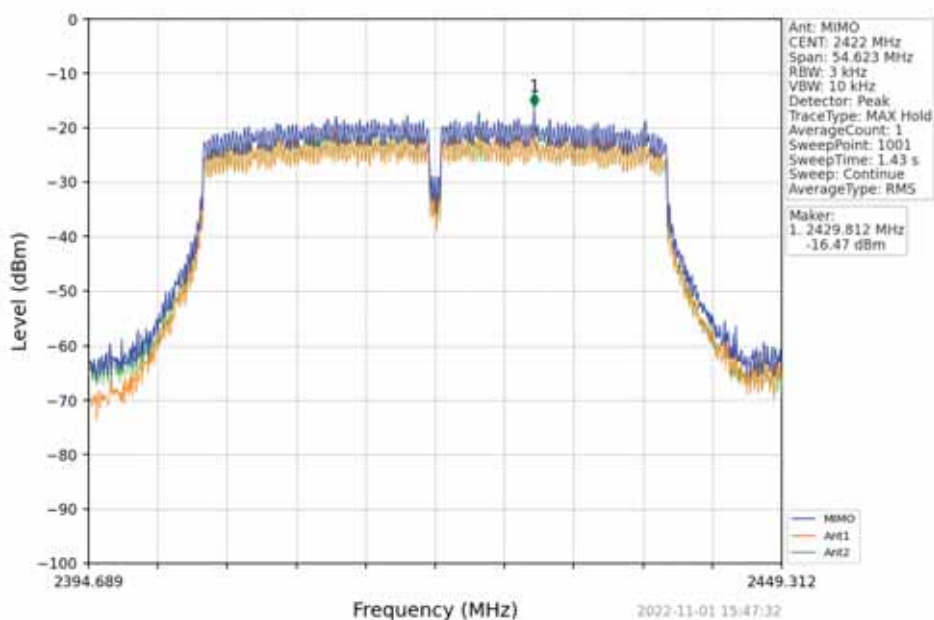
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV

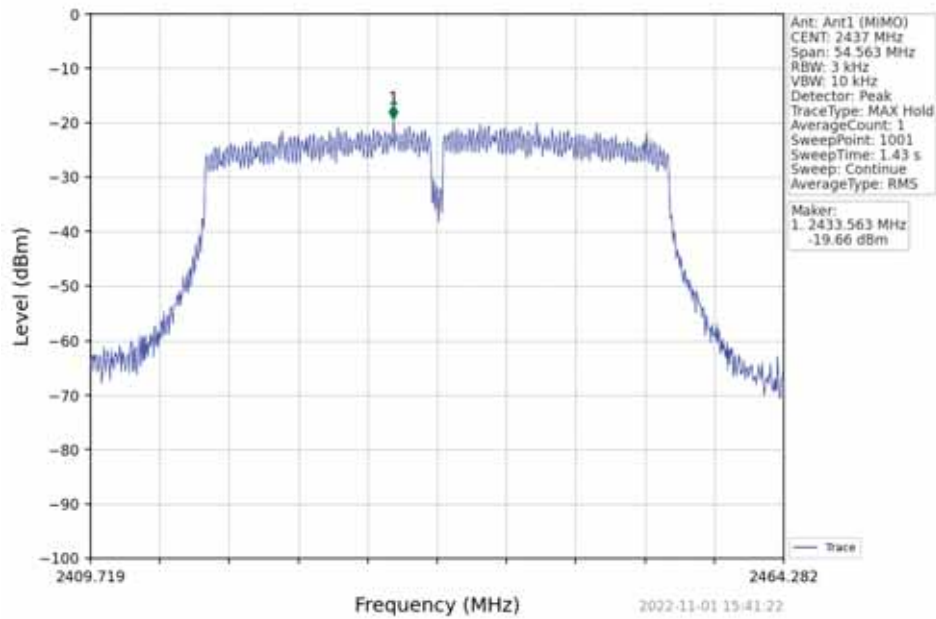


802.11n(HT40)_LCH_2422MHz_MIMO_NTNV

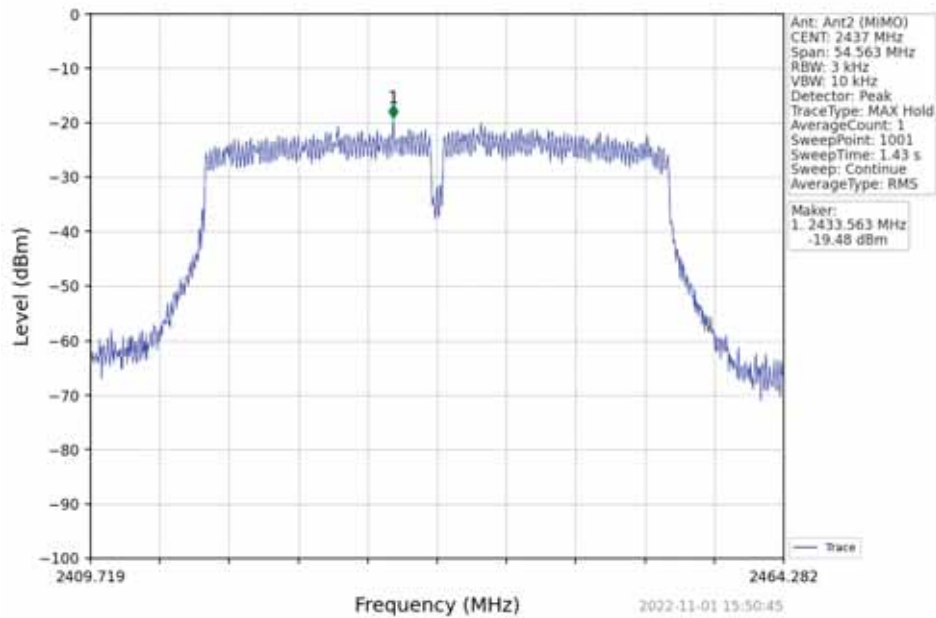




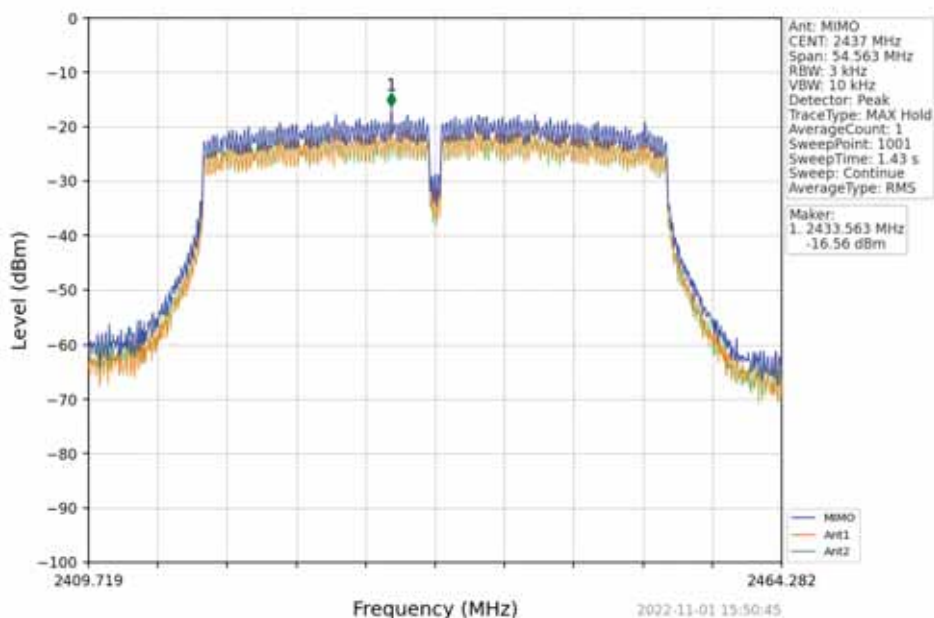
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



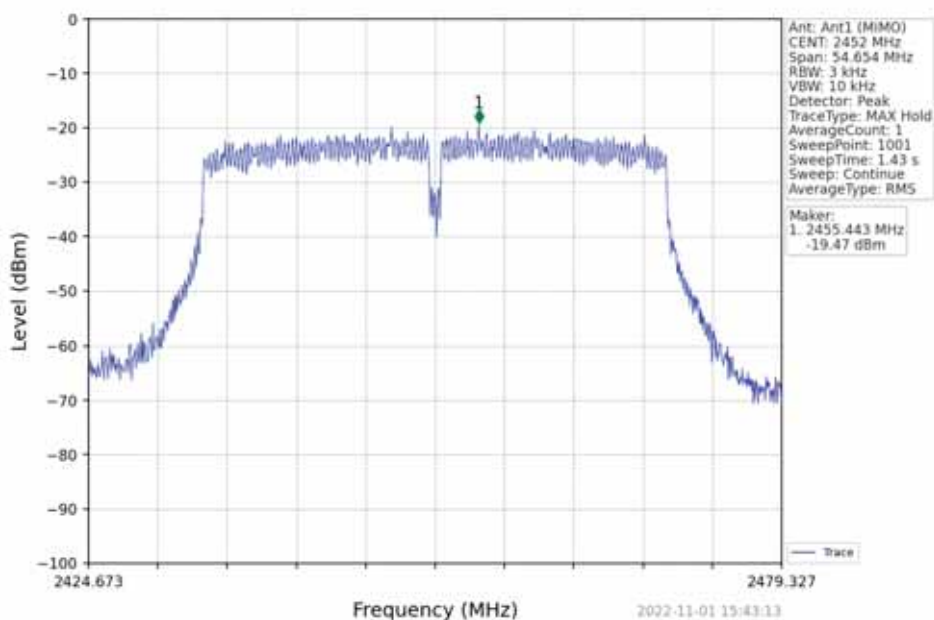
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



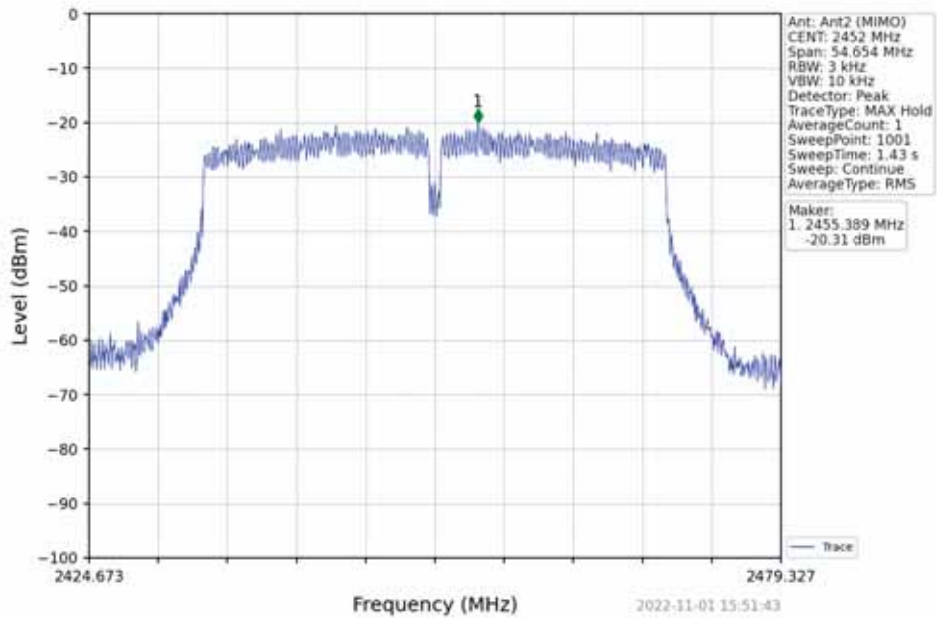
802.11n(HT40)_MCH_2437MHz_MIMO_NTNV



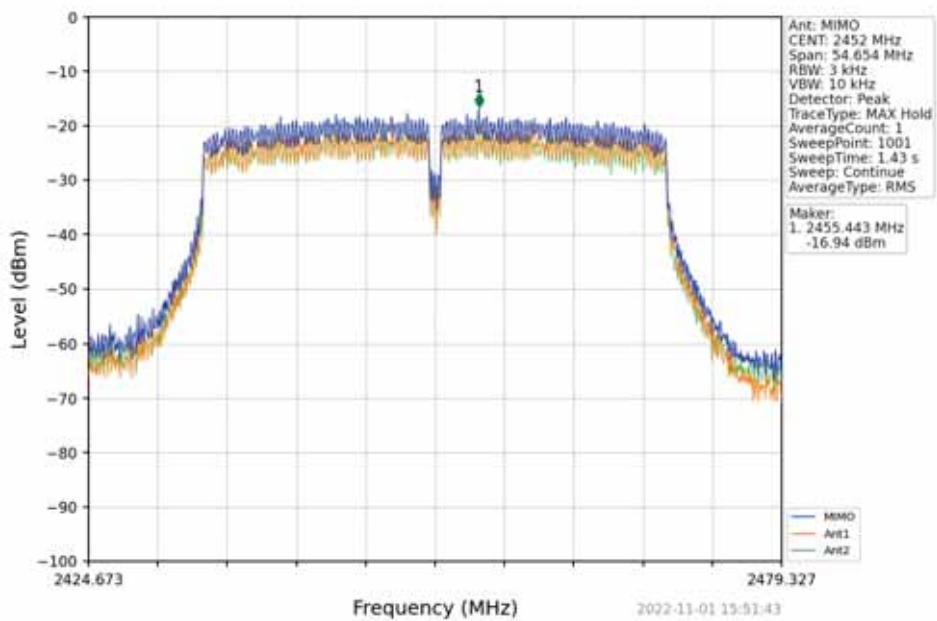
802.11n(HT40)_HCH_2452MHz_Ant1(MIMO)_NTNV



802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz MIMO NTNV



4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Ref

4.1.1 Test Result

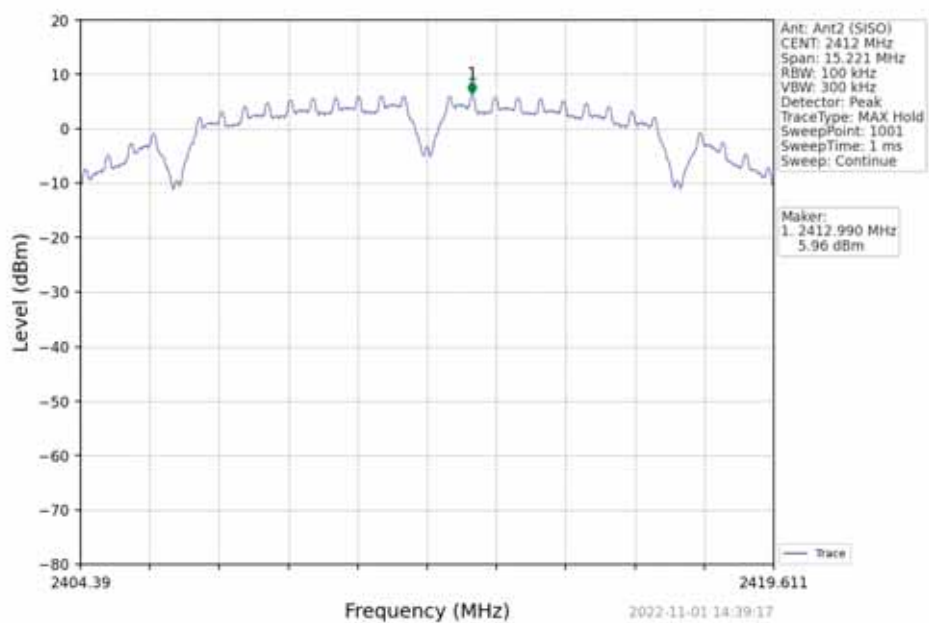
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	4.16
					2	5.96
		2437	/	/	1	4.18
					2	5.75
		2462	/	/	1	4.45
					2	5.75
802.11g	SISO	2412	/	/	1	-2.12
					2	-1.14
		2437	/	/	1	-2.35
					2	-0.88
		2462	/	/	1	-1.82
					2	-1.11
802.11n (HT20)	MIMO	2412	/	/	1	-1.95
					2	-1.43
		2437	/	/	1	-2.48
					2	-4.68
		2462	/	/	1	-2.19
					2	-3.27
802.11n (HT40)	MIMO	2422	/	/	1	-7.49
					2	-7.61
		2437	/	/	1	-7.29
					2	-6.93
		2452	/	/	1	-6.92
					2	-7.00

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.

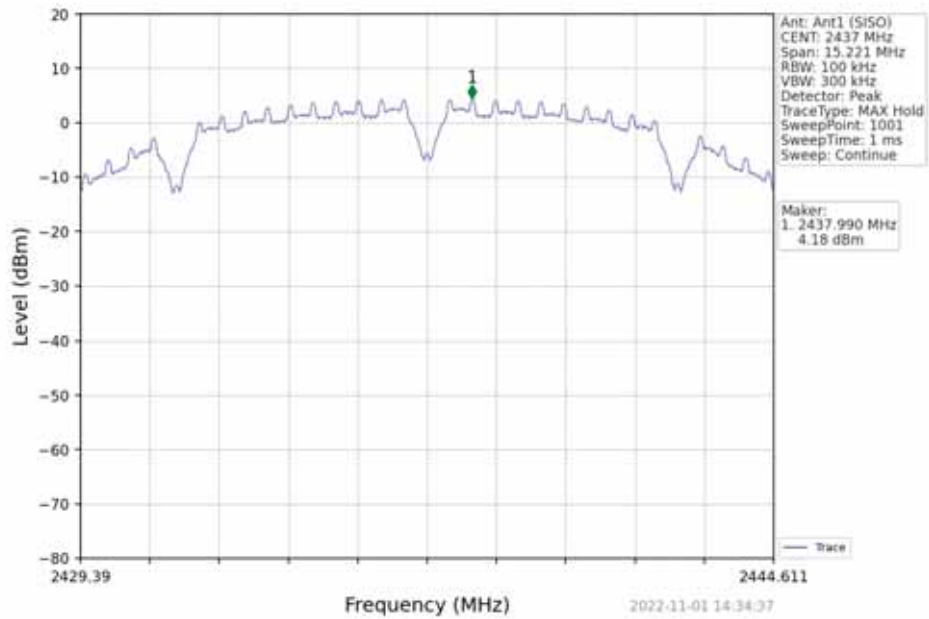


4.1.2 Test Graph

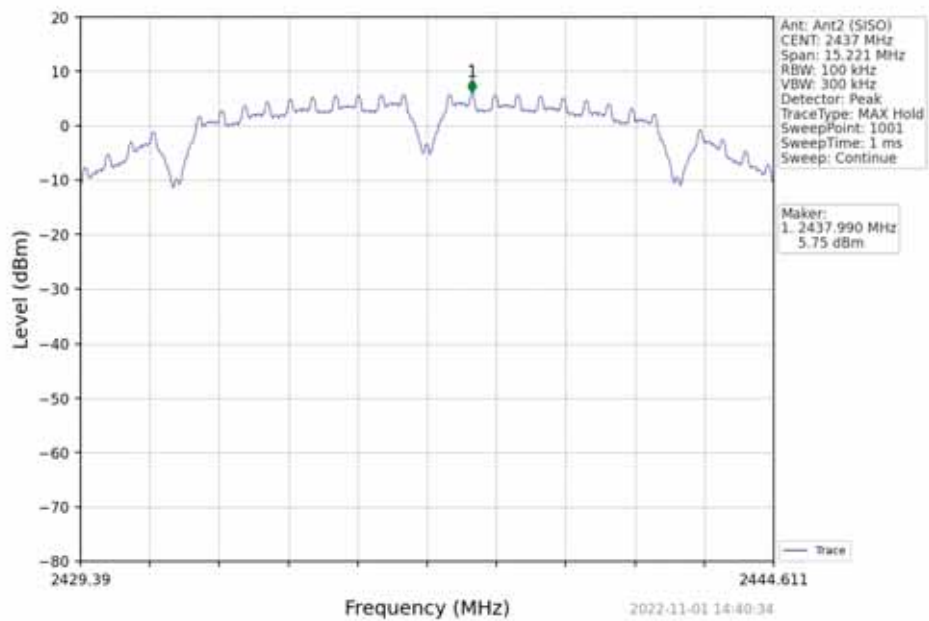




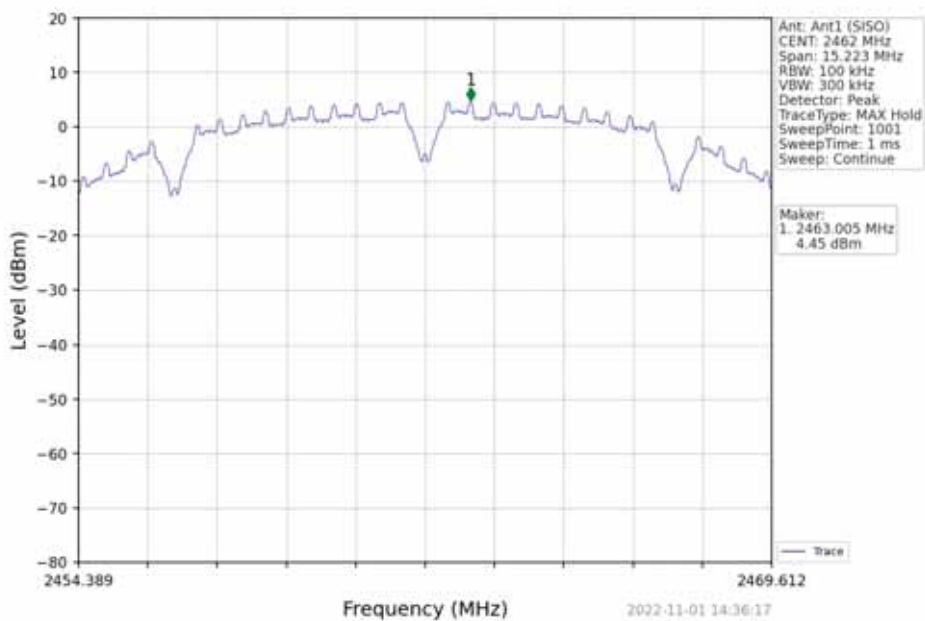
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



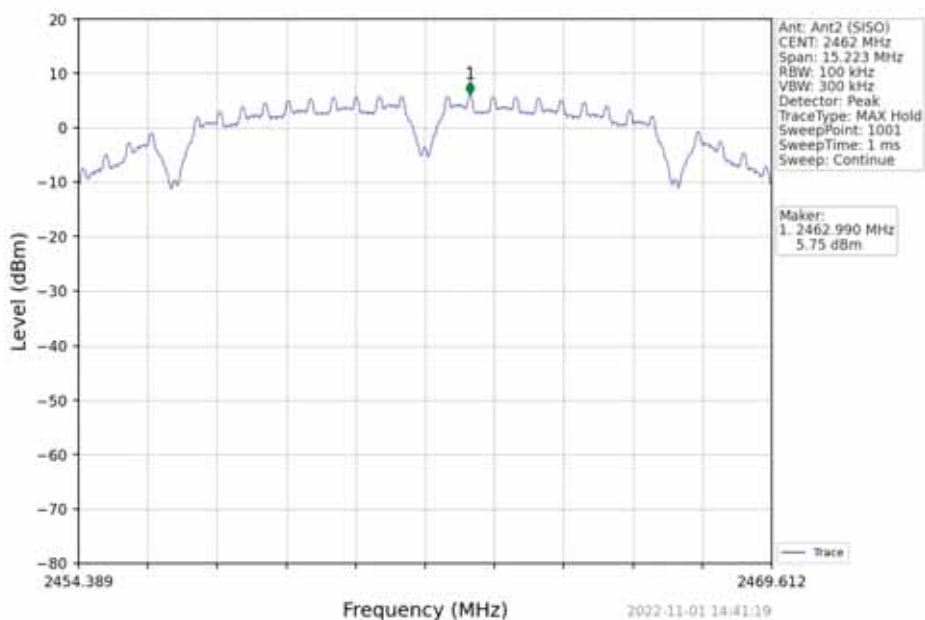
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO) NTN

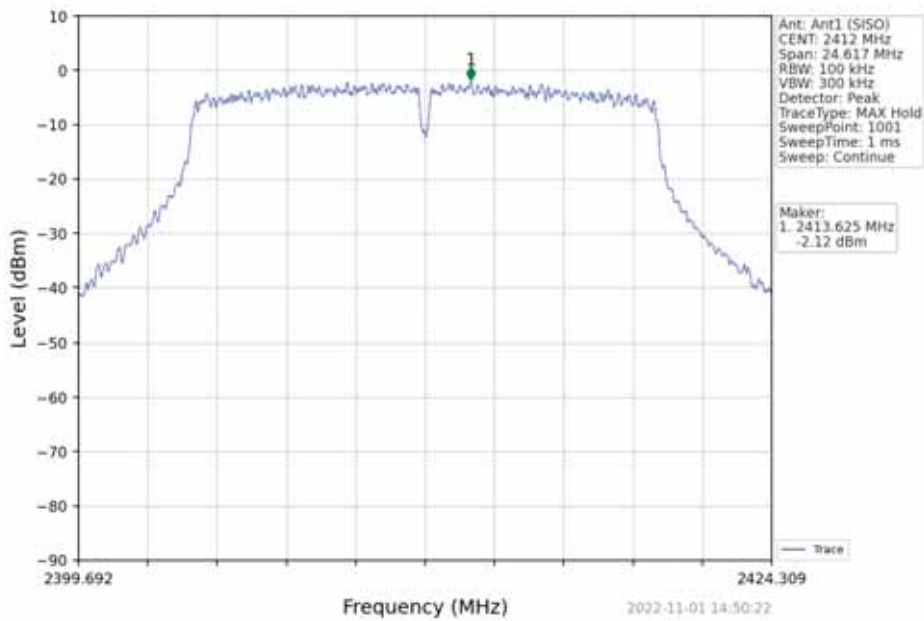


802.11b_HCH_2462MHz_Ant2 (SISO) NTN

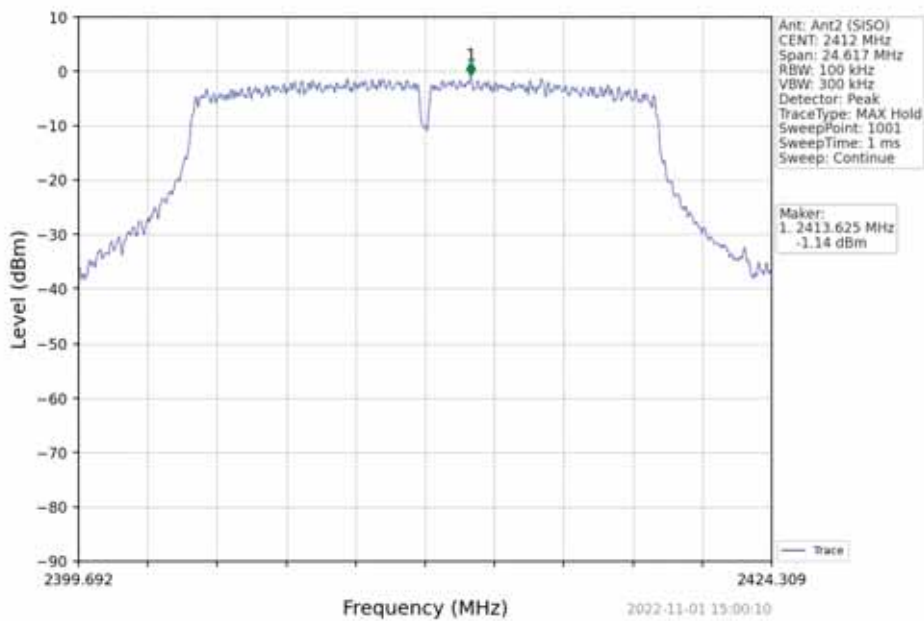




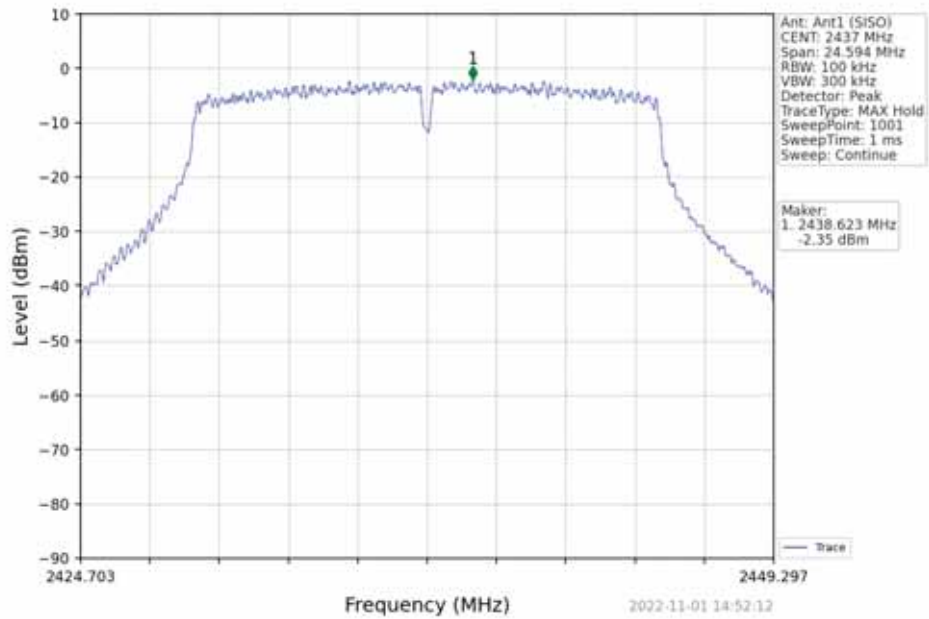
802.11g_LCH_2412MHz_Ant1 (SISO) NTN



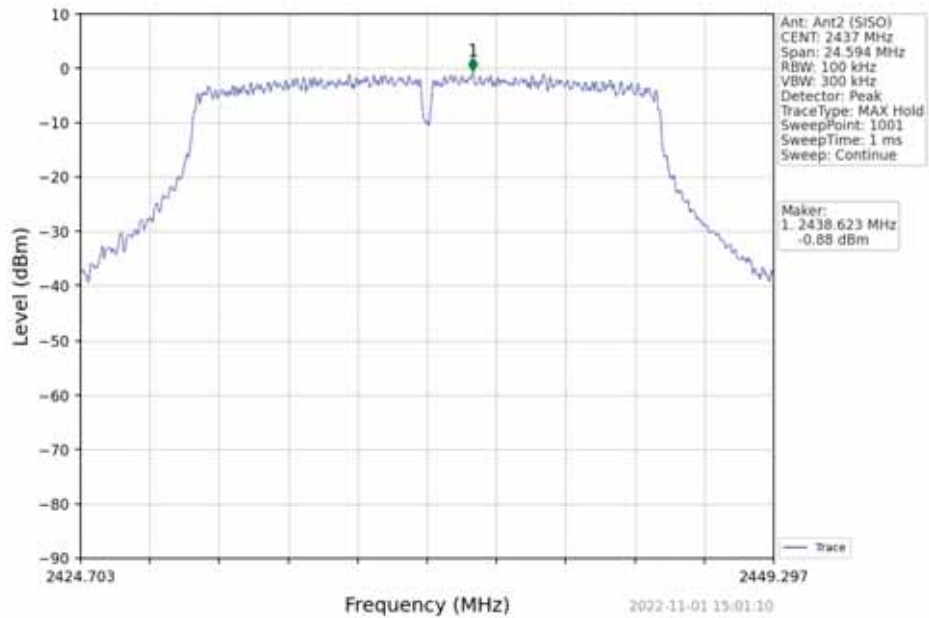
802.11g_LCH_2412MHz_Ant2 (SISO) NTN



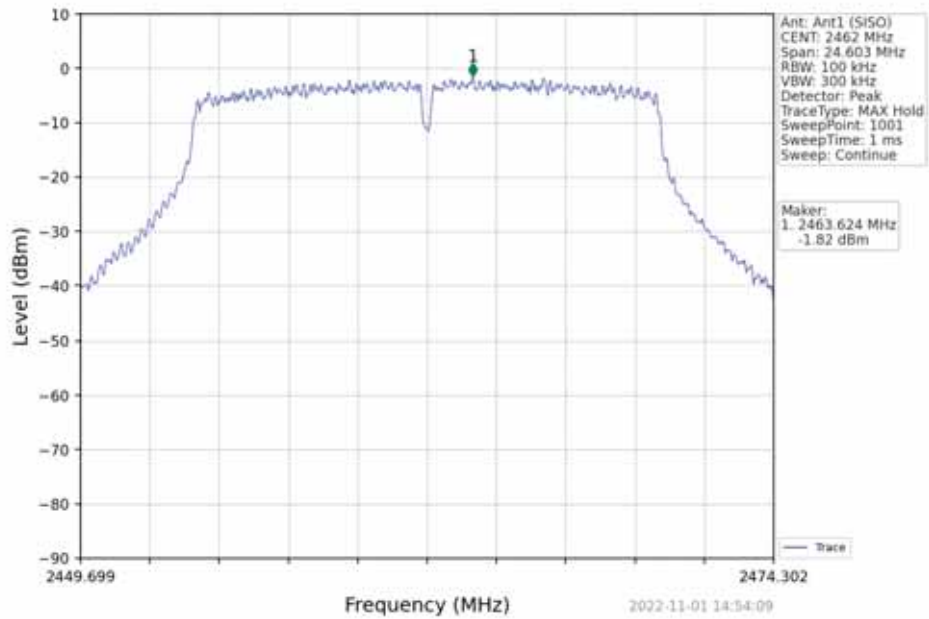
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



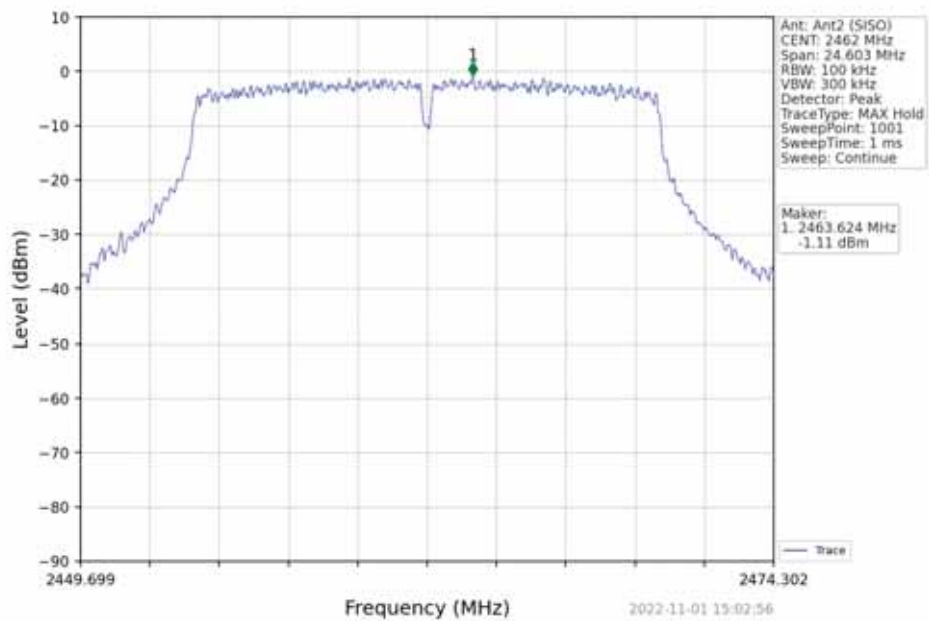
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO) NTNV

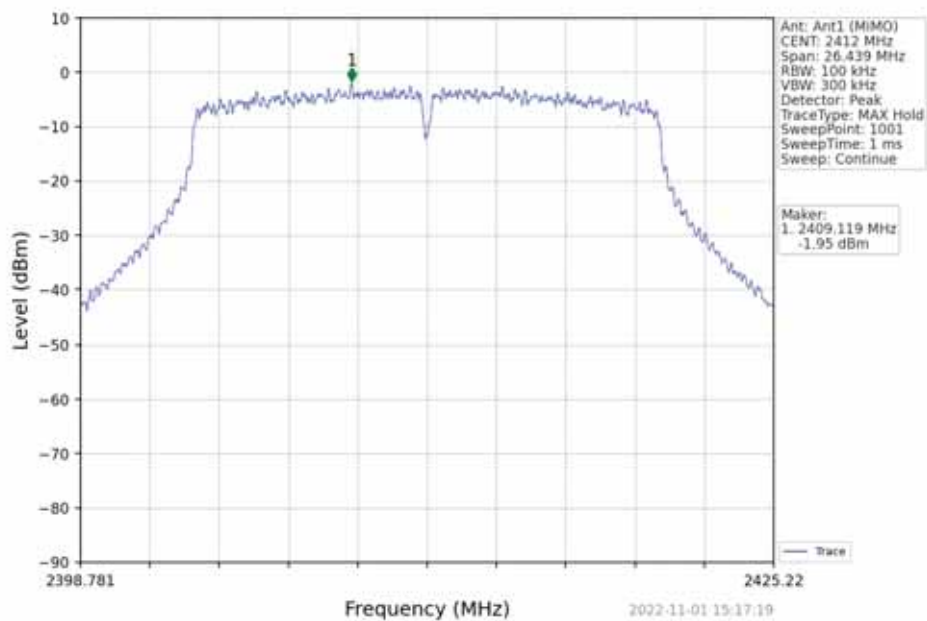


802.11g_HCH_2462MHz_Ant2 (SISO) NTNV

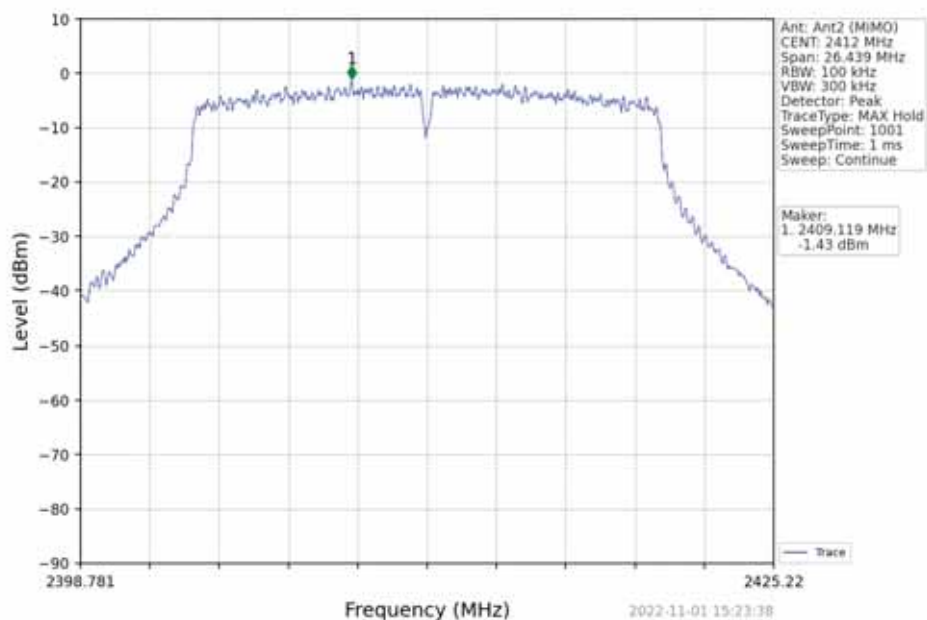




802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

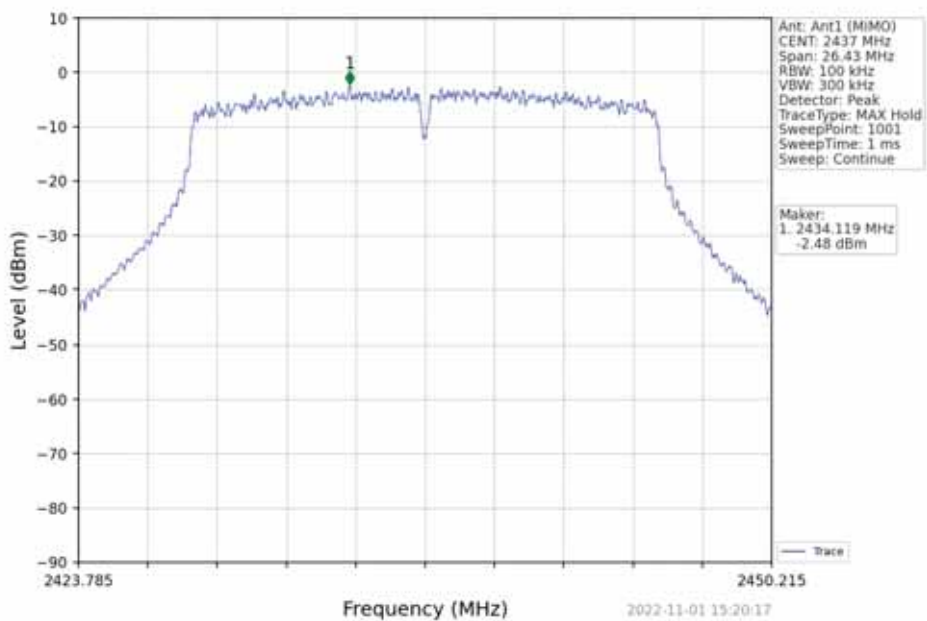


802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV

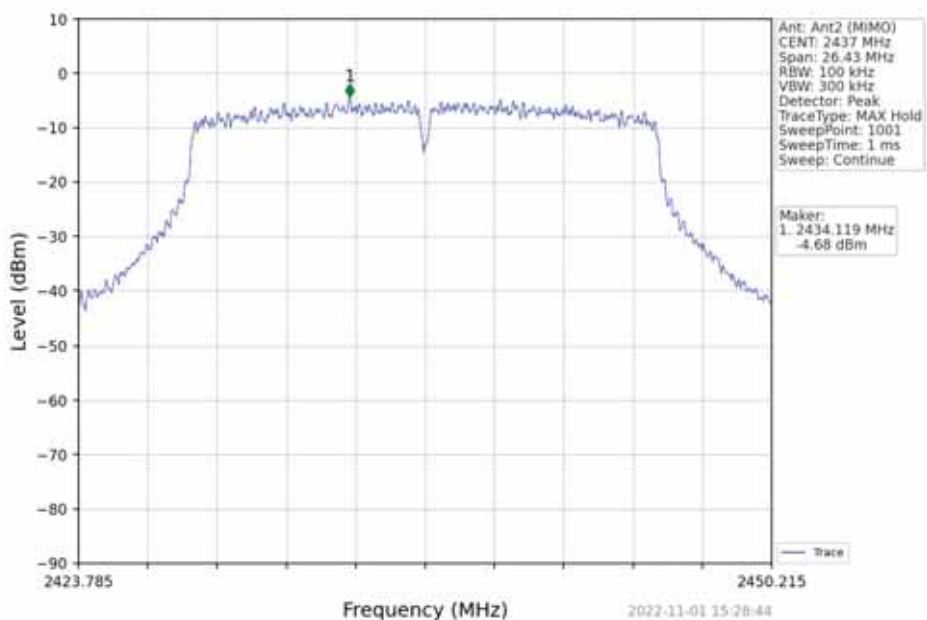




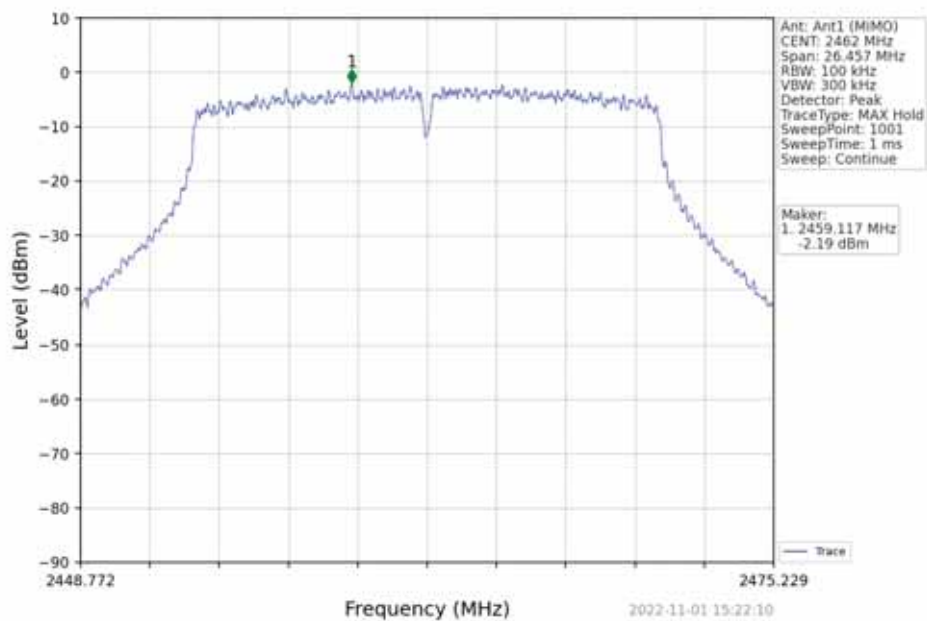
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



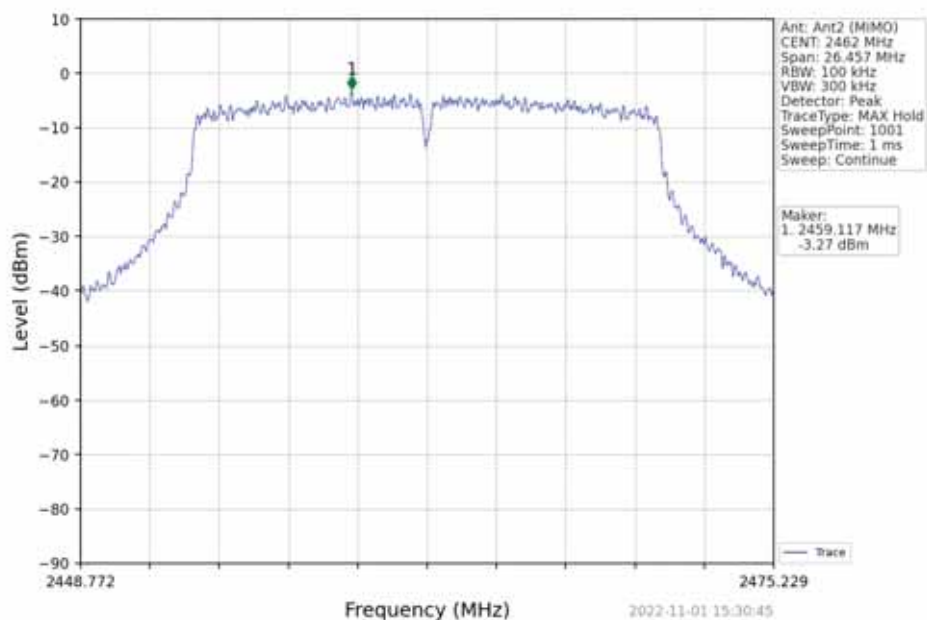
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



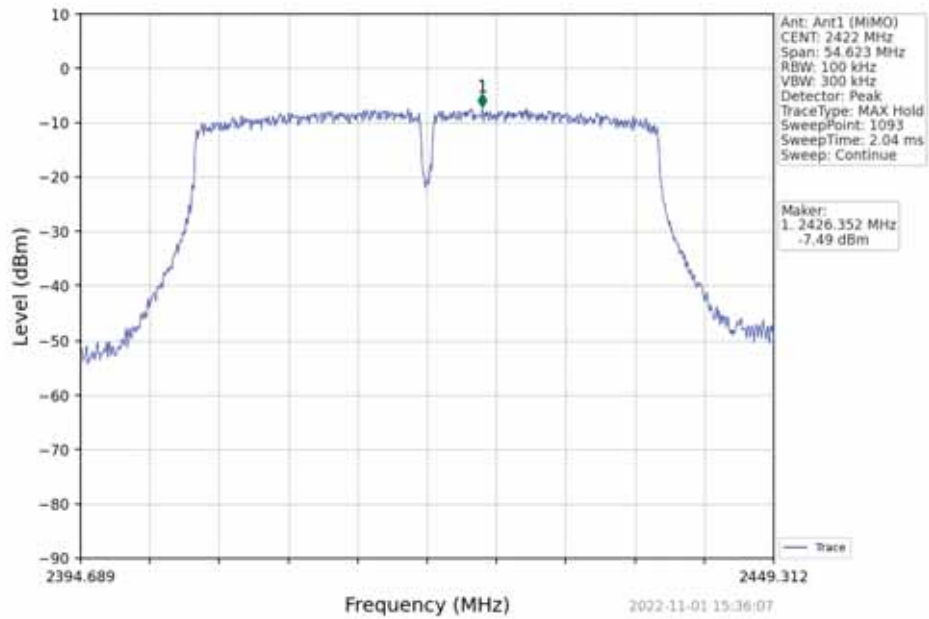
802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



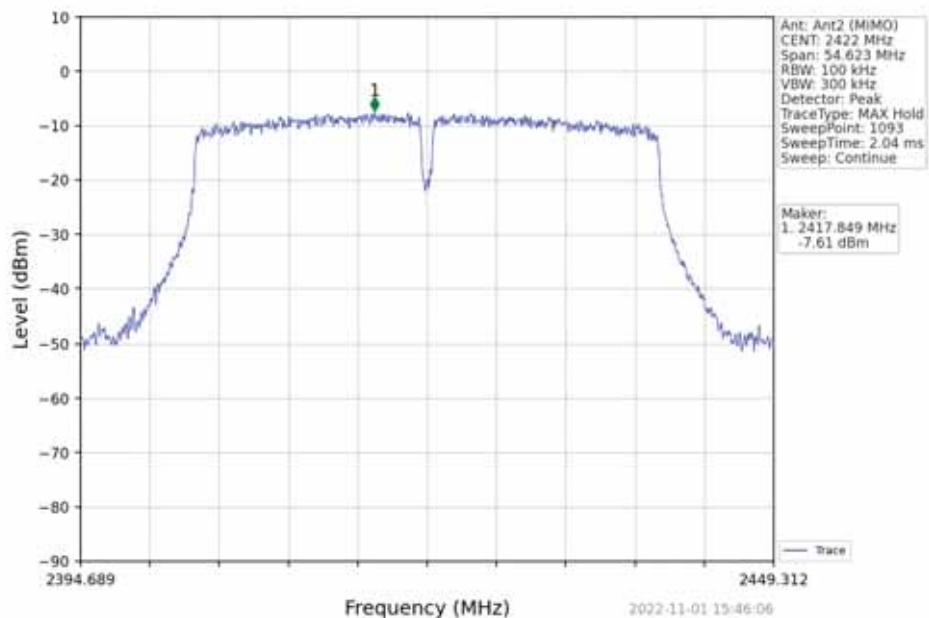
802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



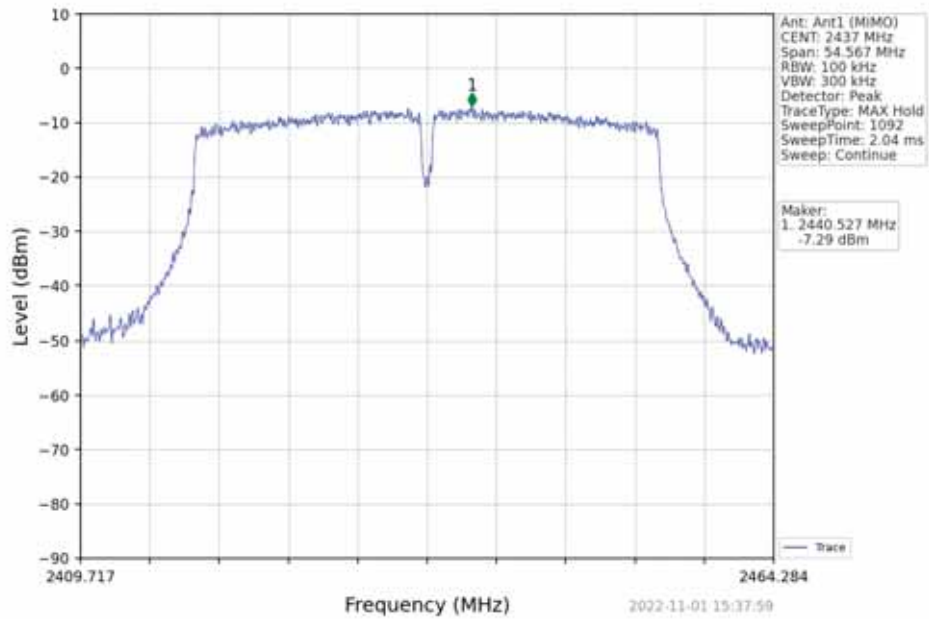
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



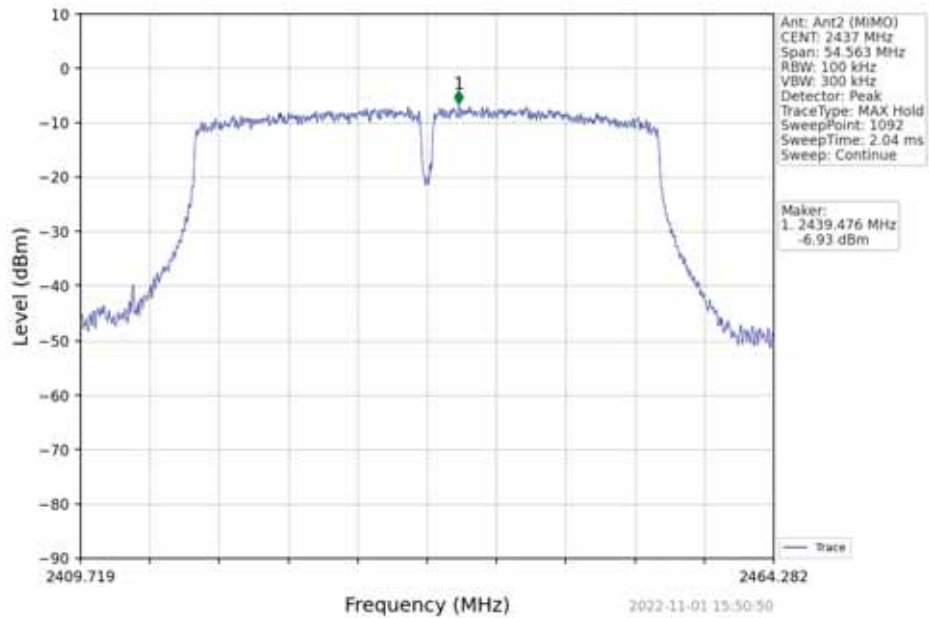
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



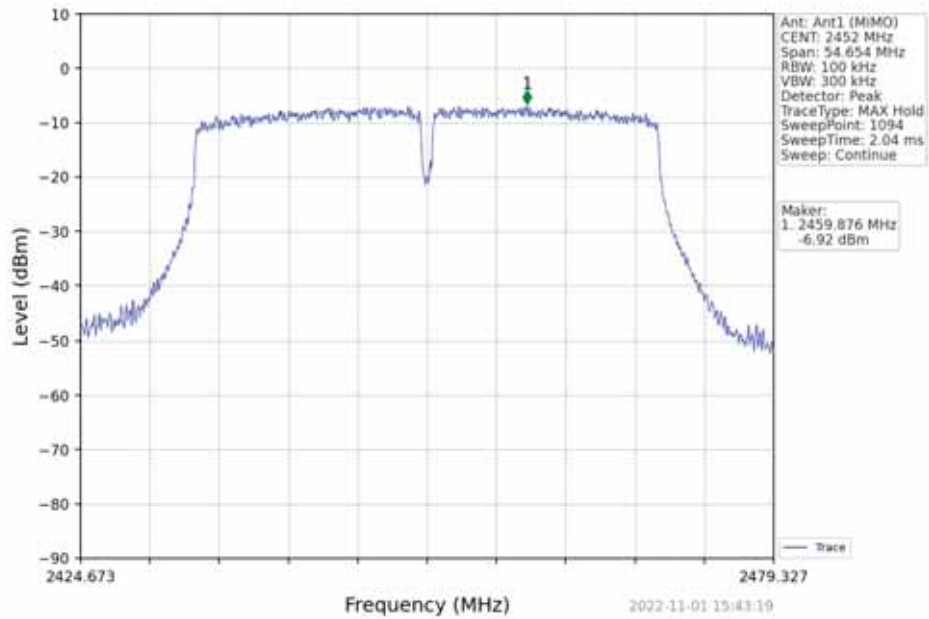
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



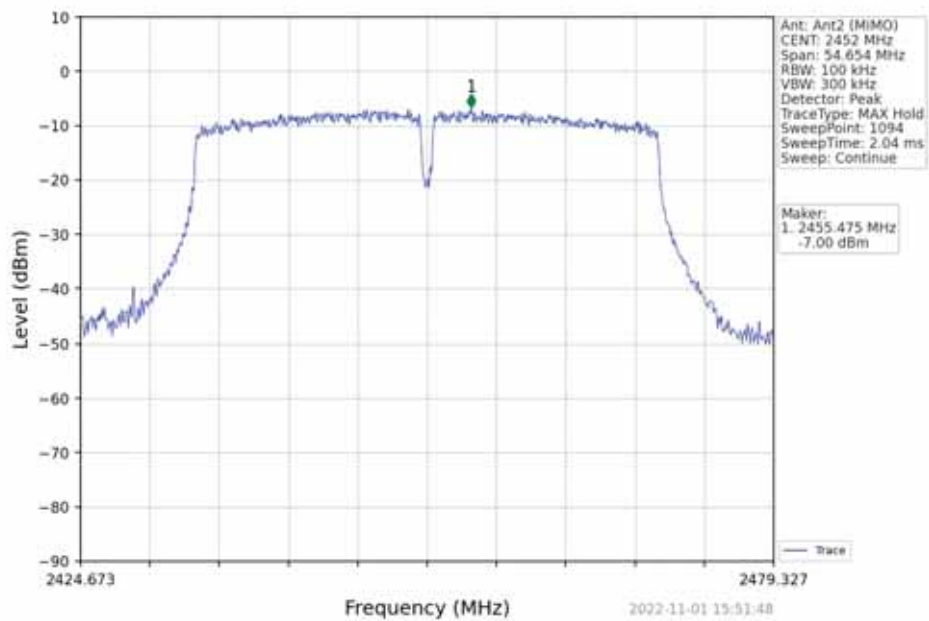
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTN



802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTN





4.2 CSE

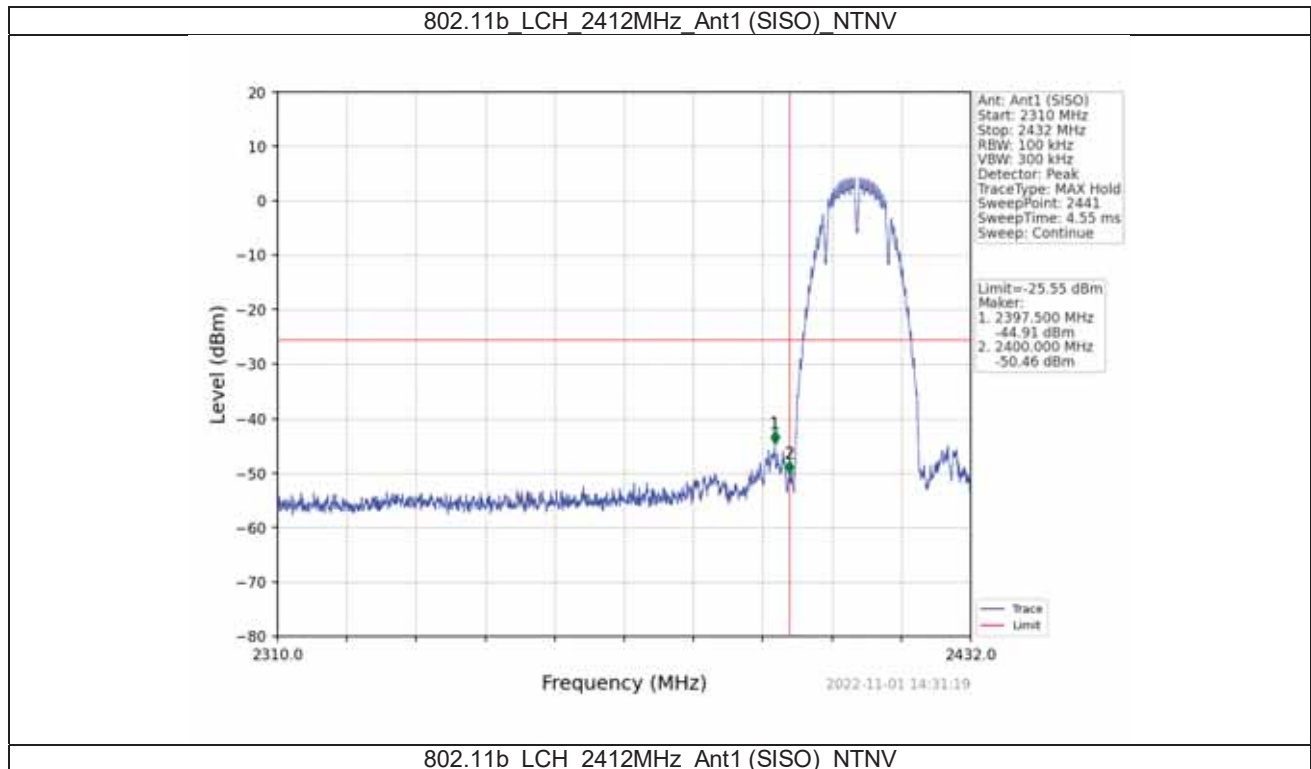
4.2.1 Test Result

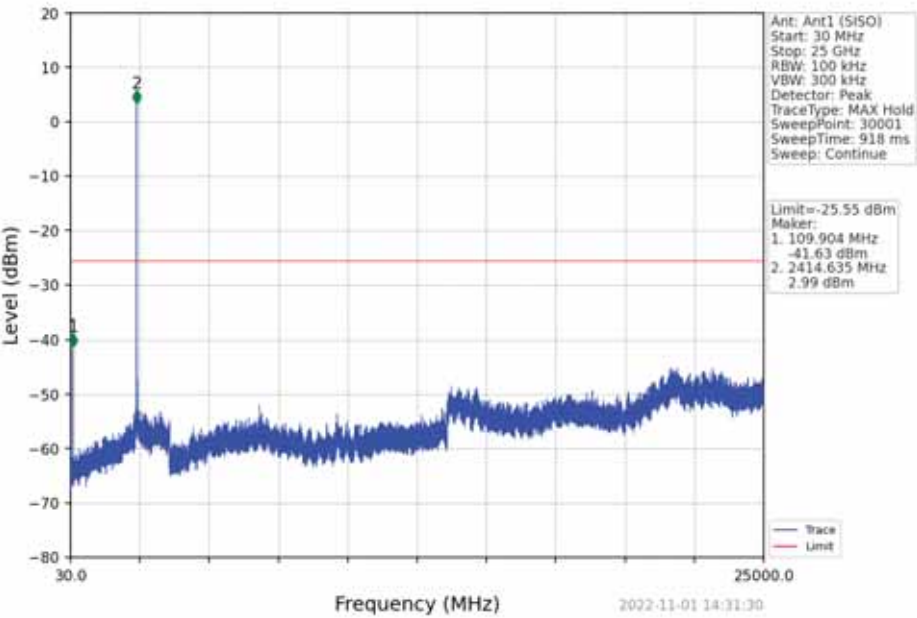
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	4.45	-25.55	Pass
					2	5.96	-24.04	Pass
		2437	/	/	1	4.45	-25.55	Pass
					2	5.96	-24.04	Pass
		2462	/	/	1	4.45	-25.55	Pass
					2	5.96	-24.04	Pass
802.11g	SISO	2412	/	/	1	-1.82	-31.82	Pass
					2	-0.88	-30.88	Pass
		2437	/	/	1	-1.82	-31.82	Pass
					2	-0.88	-30.88	Pass
		2462	/	/	1	-1.82	-31.82	Pass
					2	-0.88	-30.88	Pass
802.11n (HT20)	MIMO	2412	/	/	1	-1.95	-31.95	Pass
					2	-1.43	-31.43	Pass
		2437	/	/	1	-1.95	-31.95	Pass
					2	-1.43	-31.43	Pass
		2462	/	/	1	-1.95	-31.95	Pass
					2	-1.43	-31.43	Pass
802.11n (HT40)	MIMO	2422	/	/	1	-6.92	-36.92	Pass
					2	-6.93	-36.93	Pass
		2437	/	/	1	-6.92	-36.92	Pass
					2	-6.93	-36.93	Pass
		2452	/	/	1	-6.92	-36.92	Pass
					2	-6.93	-36.93	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.

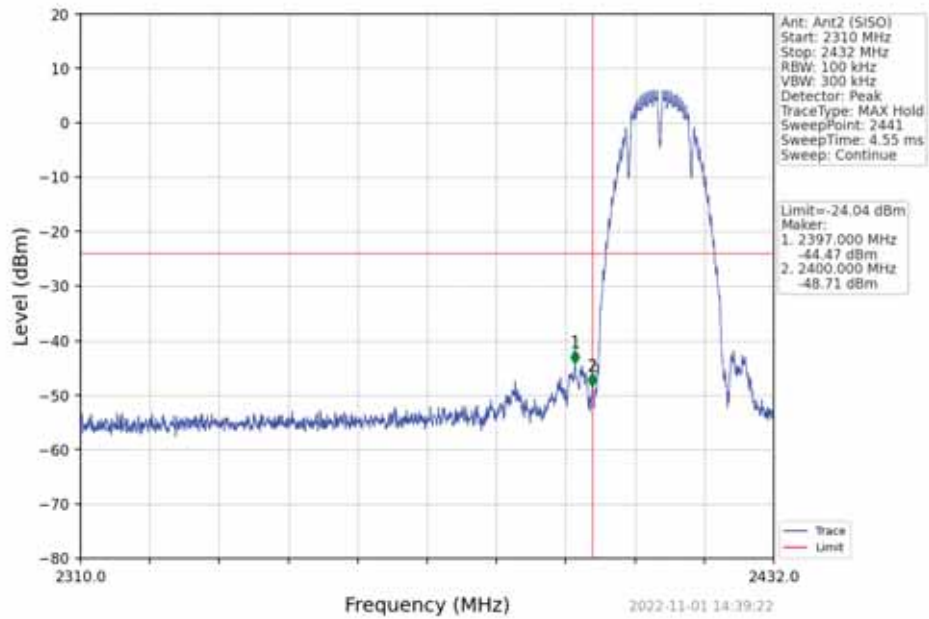


4.2.2 Test Graph

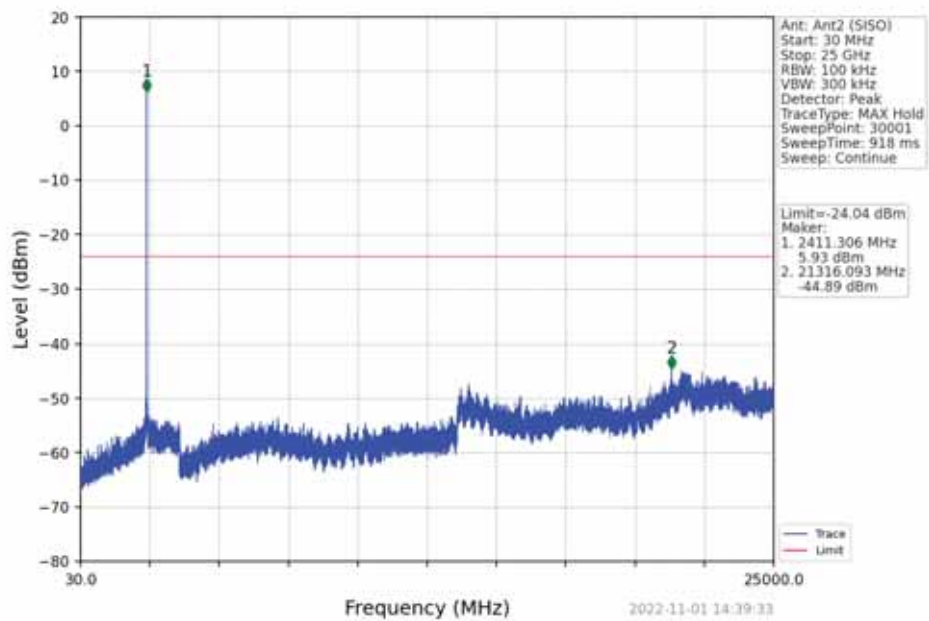




802.11b_LCH_2412MHz_Ant2 (SISO) NTNV

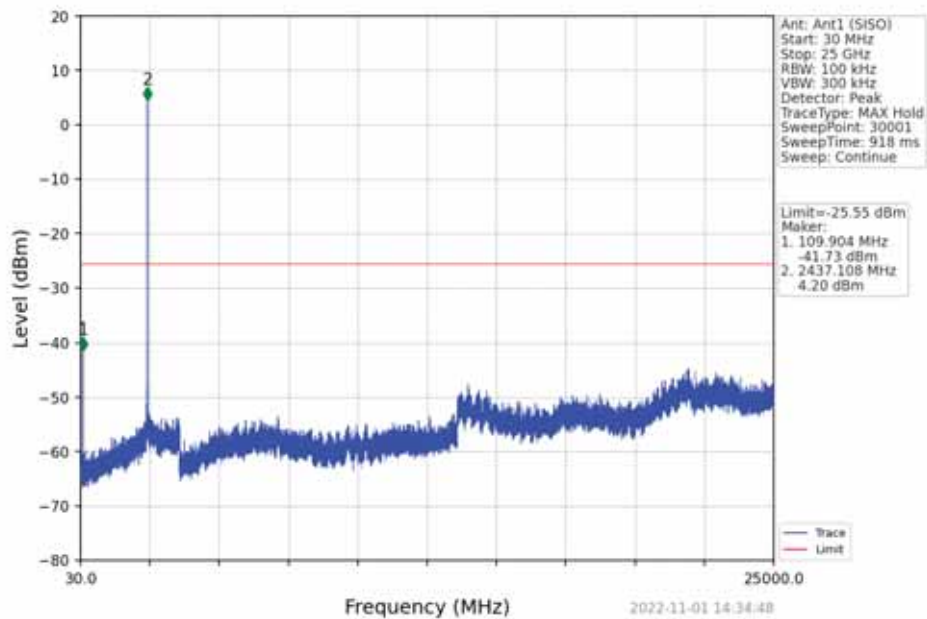


802.11b_LCH_2412MHz_Ant2 (SISO) NTNV

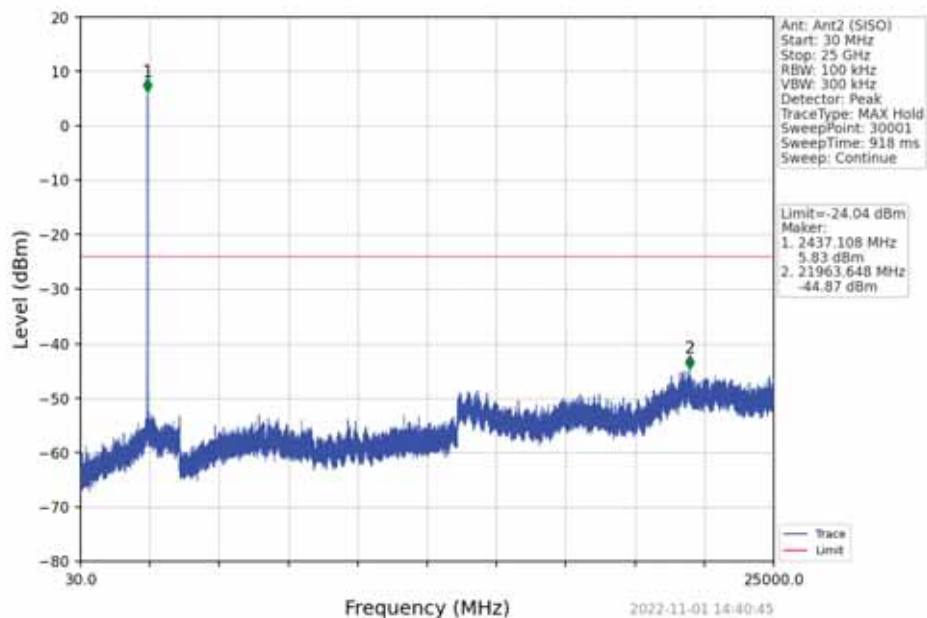




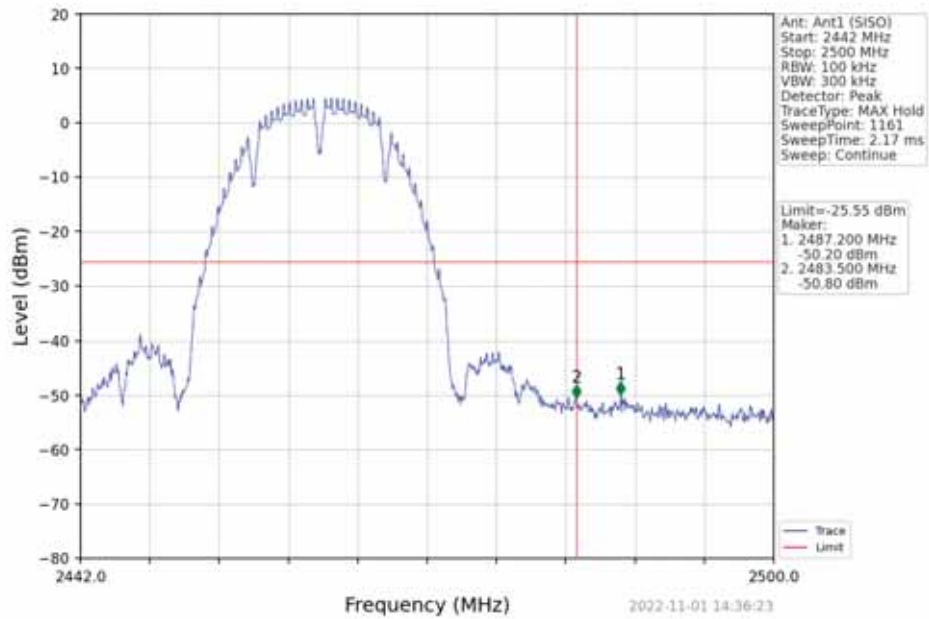
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



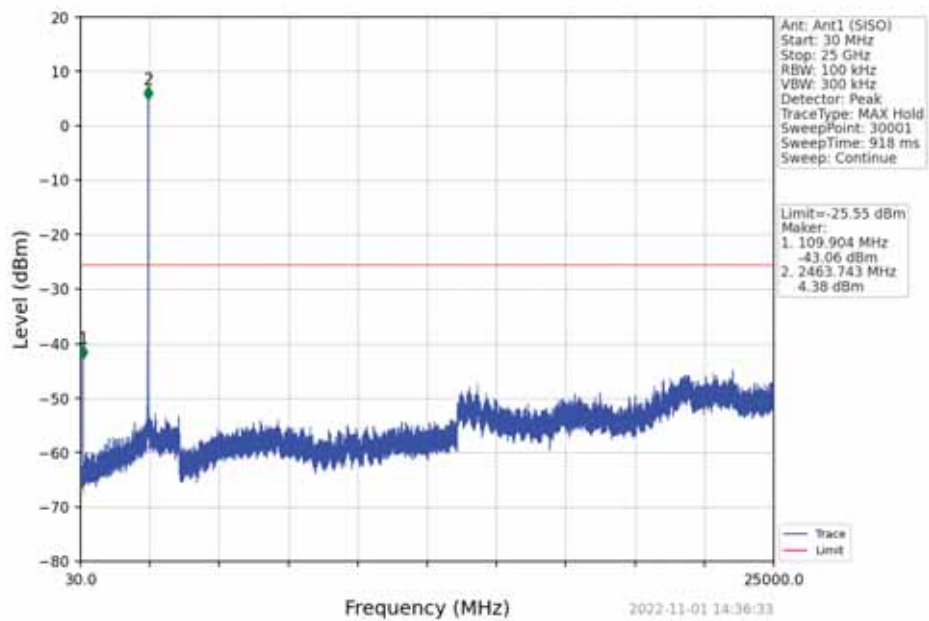
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



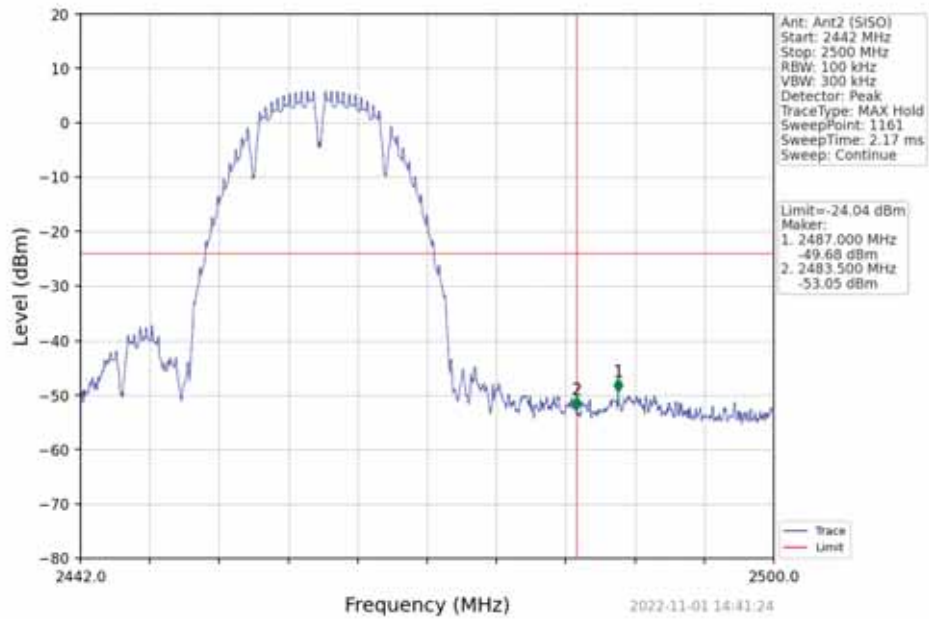
802.11b_HCH_2462MHz_Ant1 (SISO) NTNV



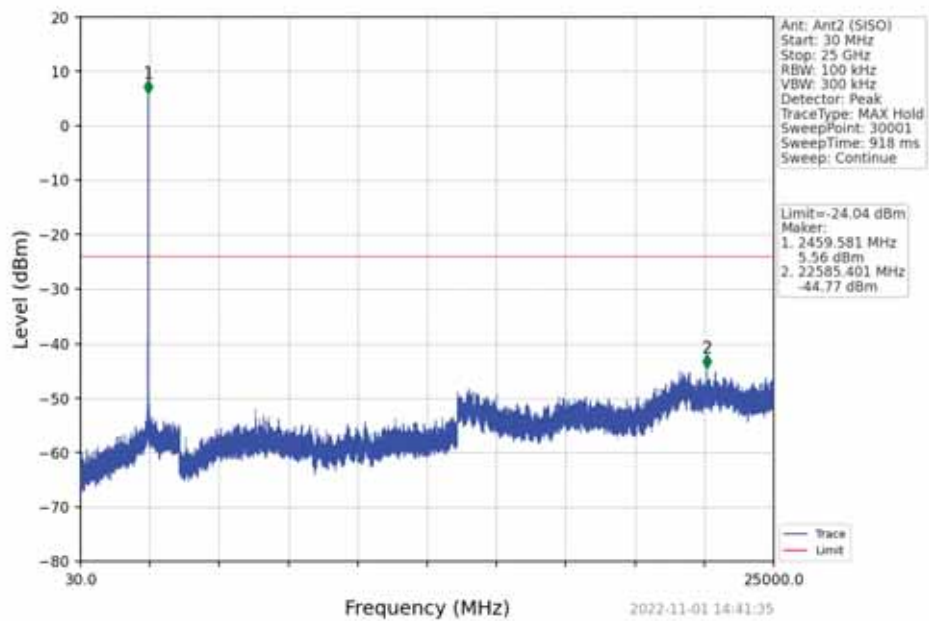
802.11b_HCH_2462MHz_Ant1 (SISO) NTNV



802.11b_HCH_2462MHz_Ant2(SISO)_NTNV

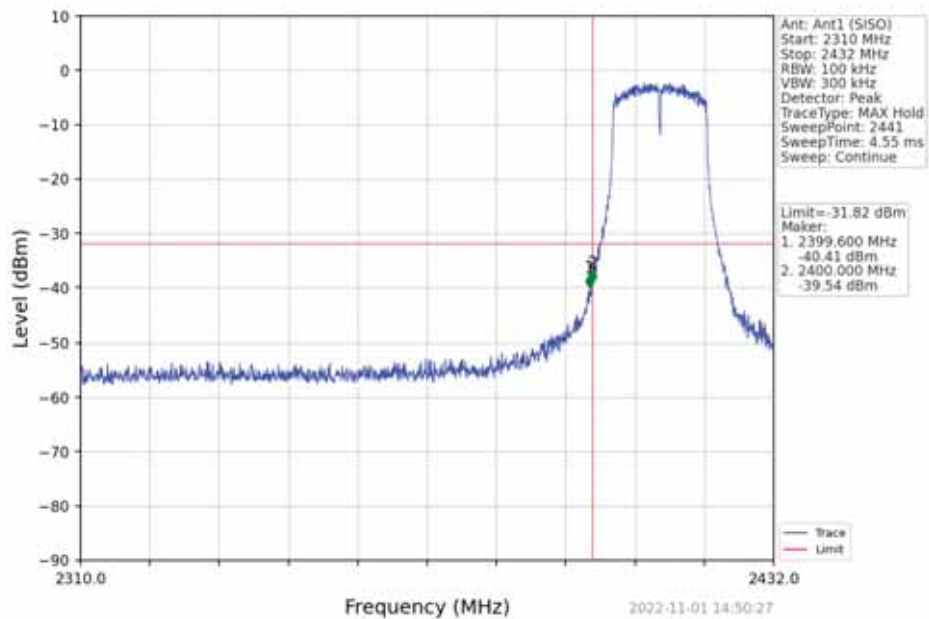


802.11b_HCH_2462MHz_Ant2(SISO)_NTNV

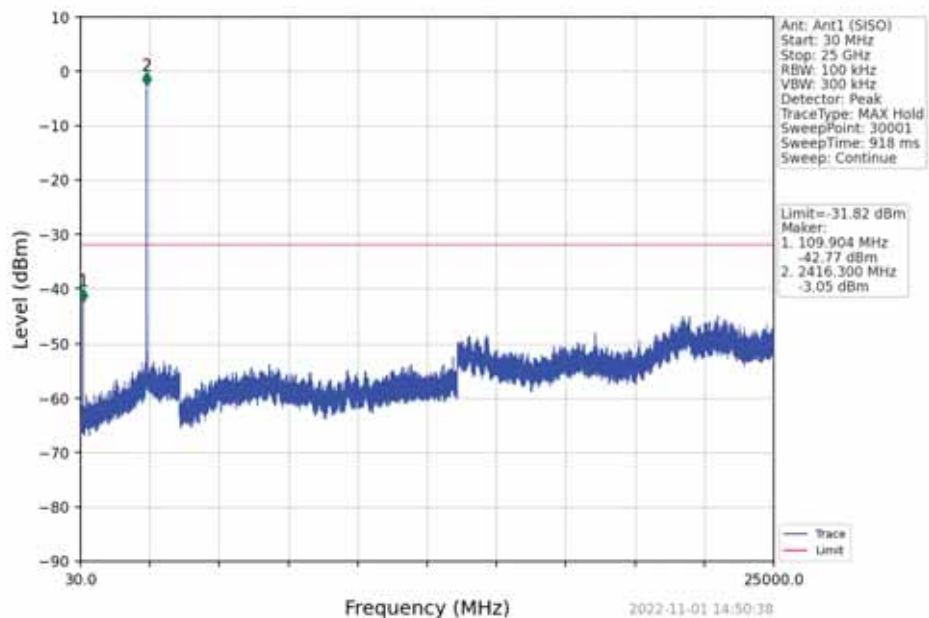




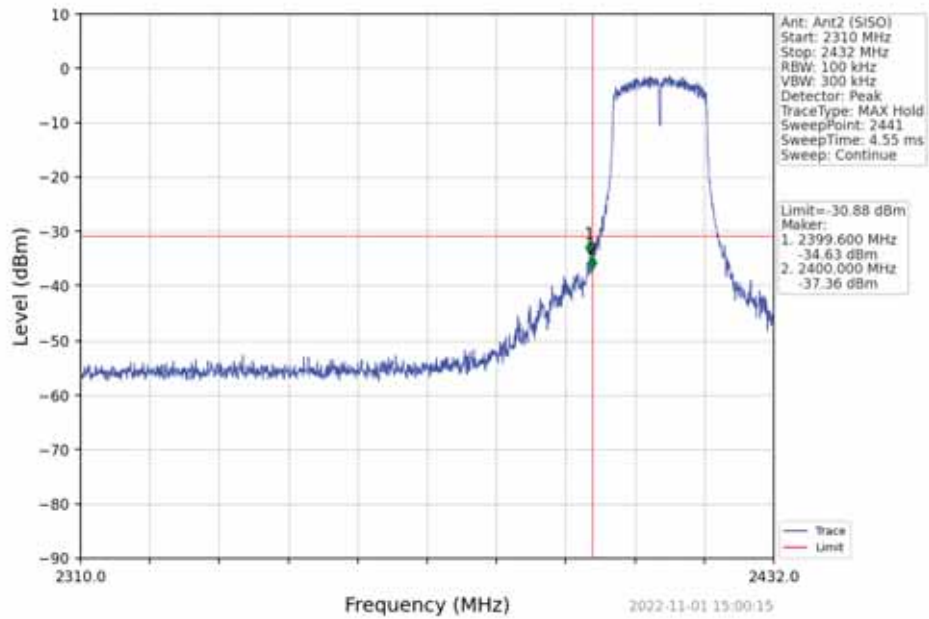
802.11g_LCH_2412MHz_Ant1 (SISO) NTN



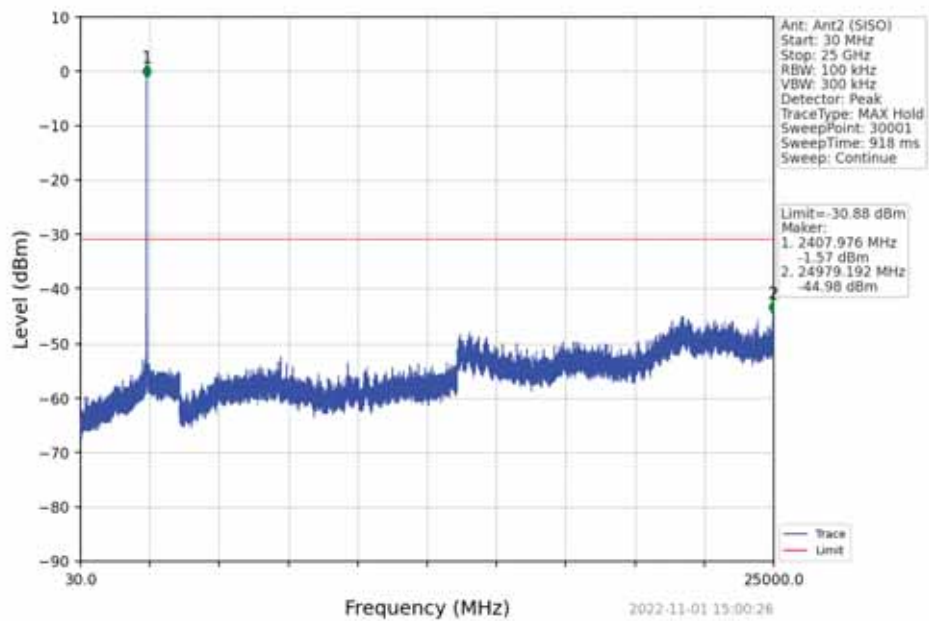
802.11g_LCH_2412MHz_Ant1 (SISO) NTN



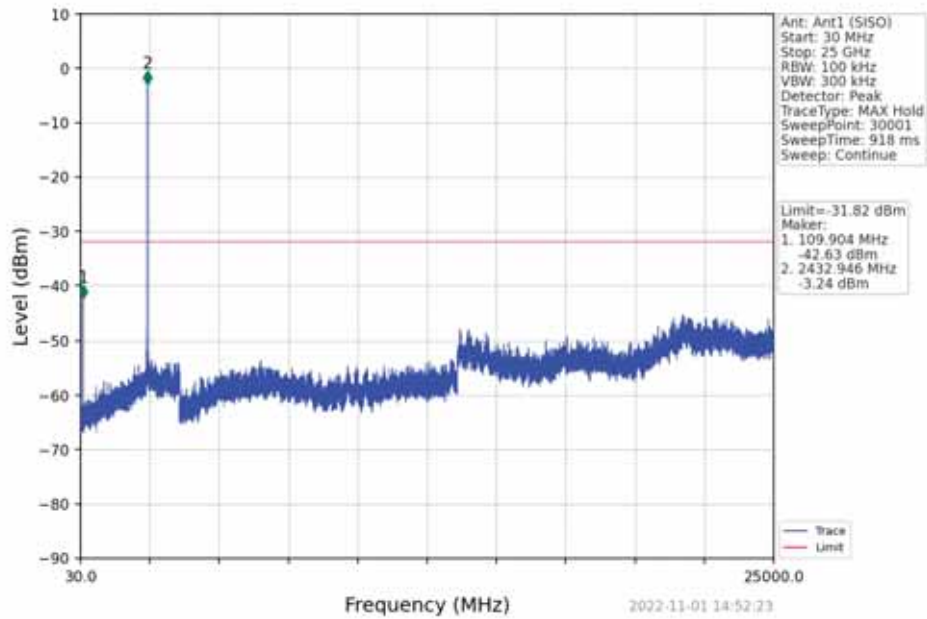
802.11g_LCH_2412MHz_Ant2 (SISO) NTNV



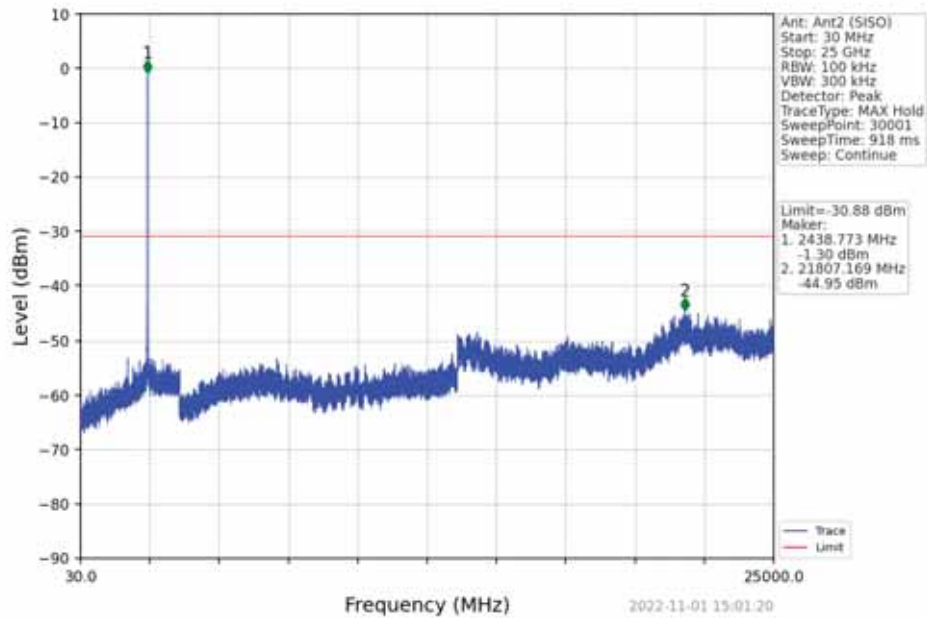
802.11g_LCH_2412MHz_Ant2 (SISO) NTNV



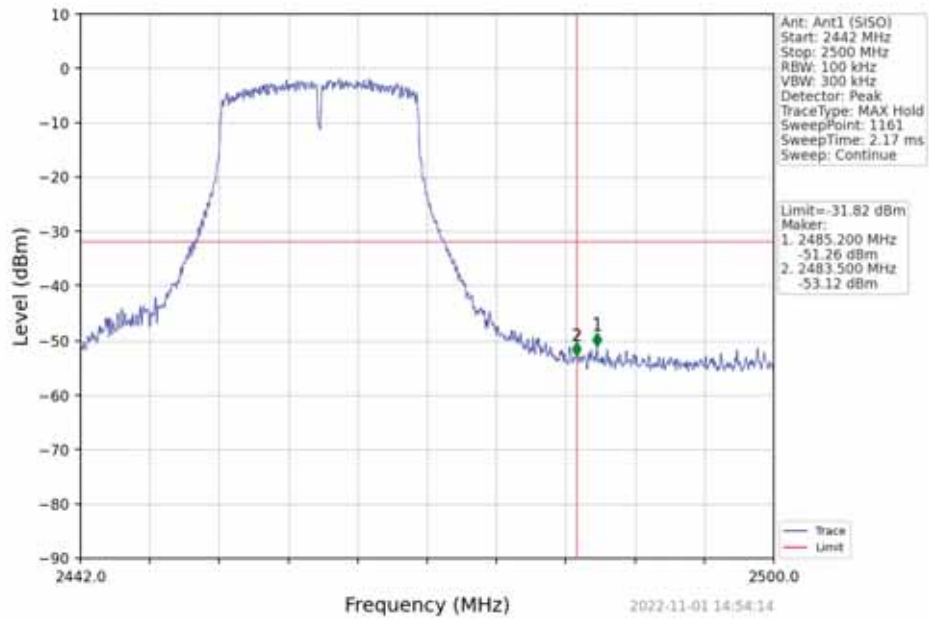
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



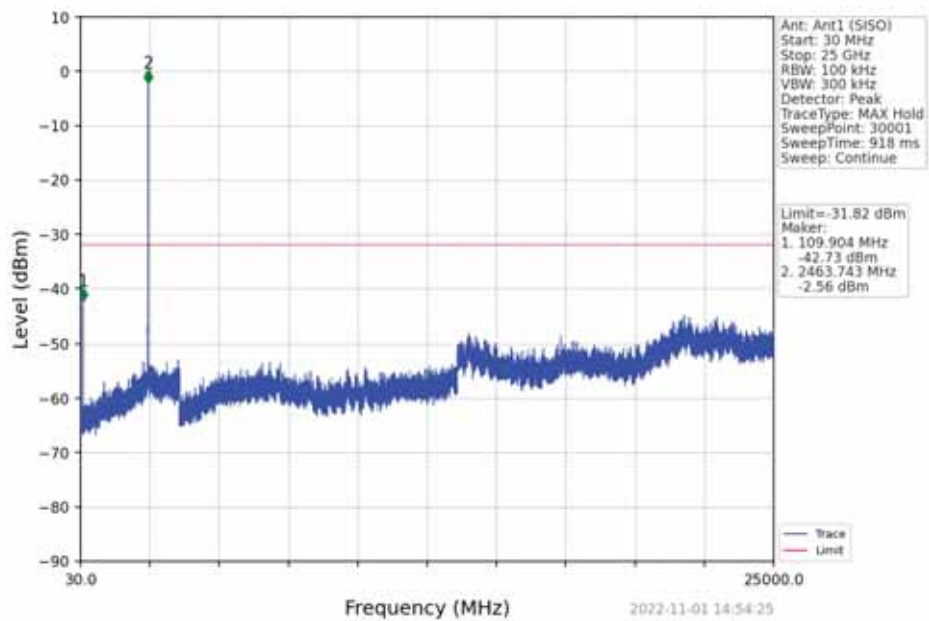
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



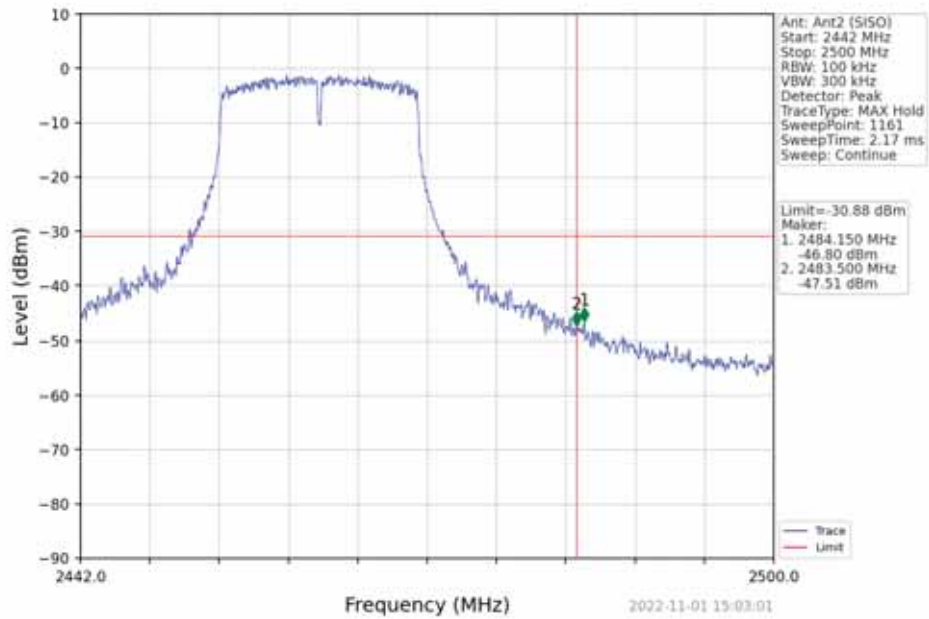
802.11g_HCH_2462MHz_Ant1 (SISO) NTNV



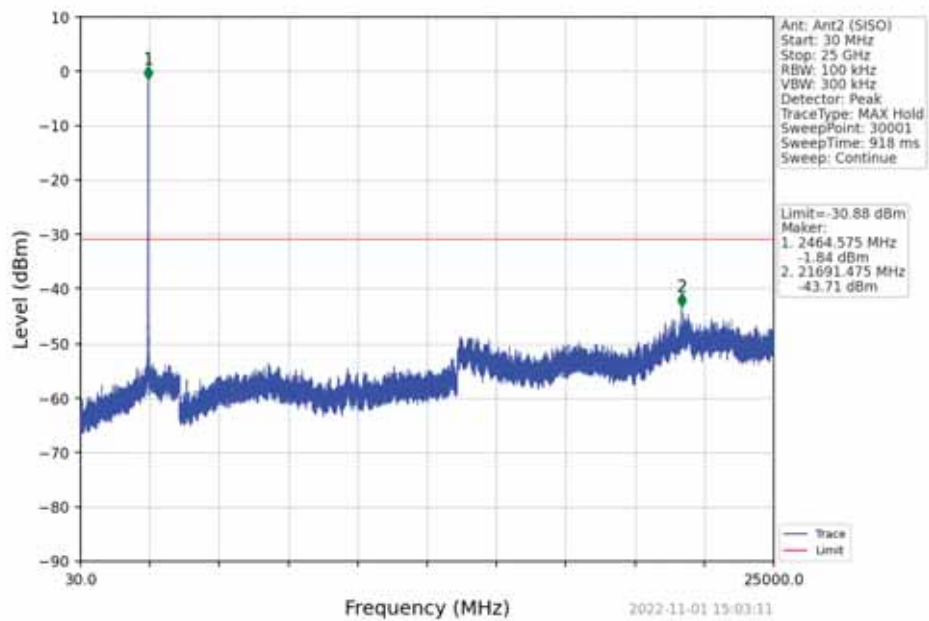
802.11g_HCH_2462MHz_Ant1 (SISO) NTNV



802.11g_HCH_2462MHz_Ant2(SISO)_NTNV

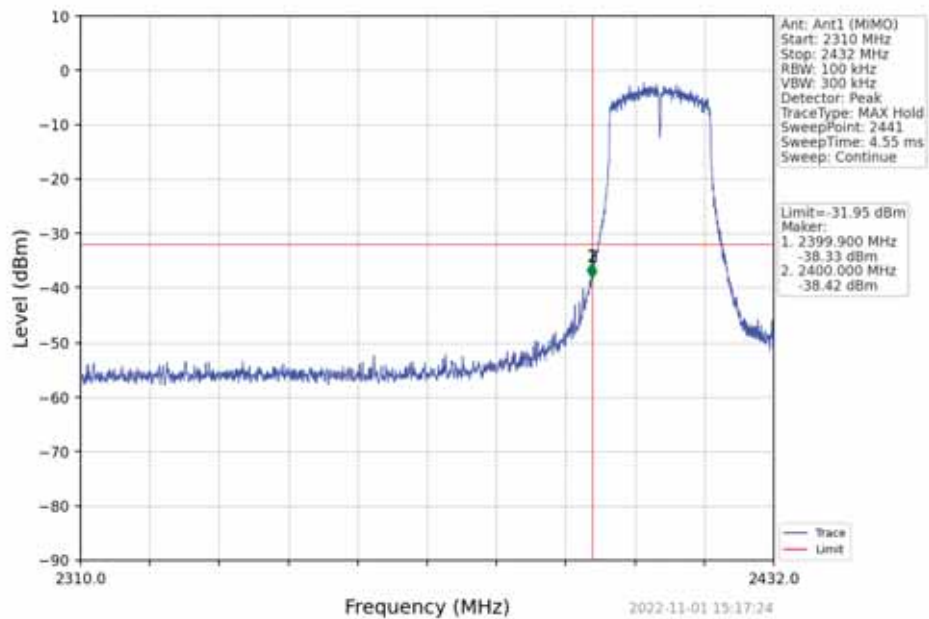


802.11g_HCH_2462MHz_Ant2(SISO)_NTNV

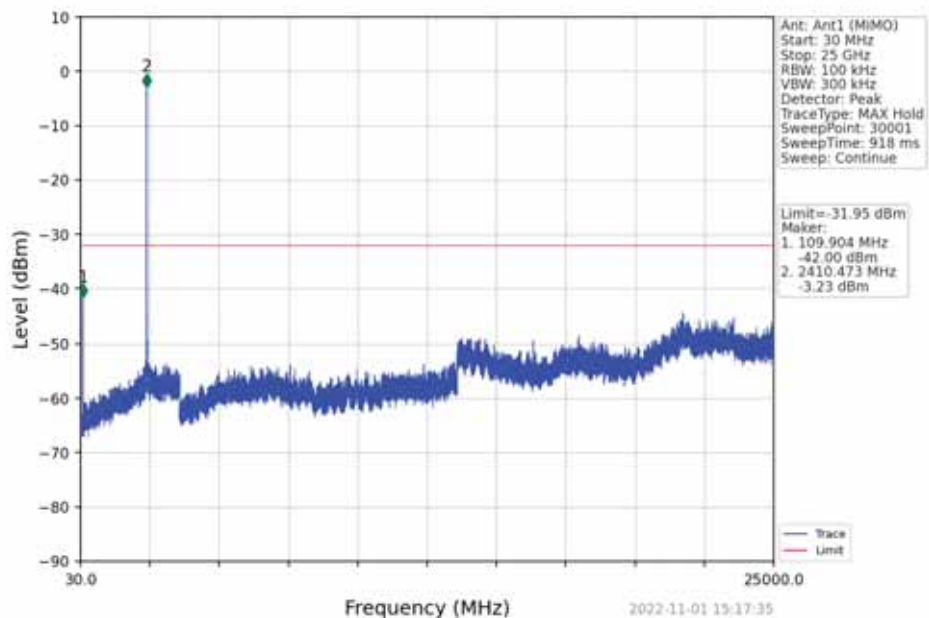




802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

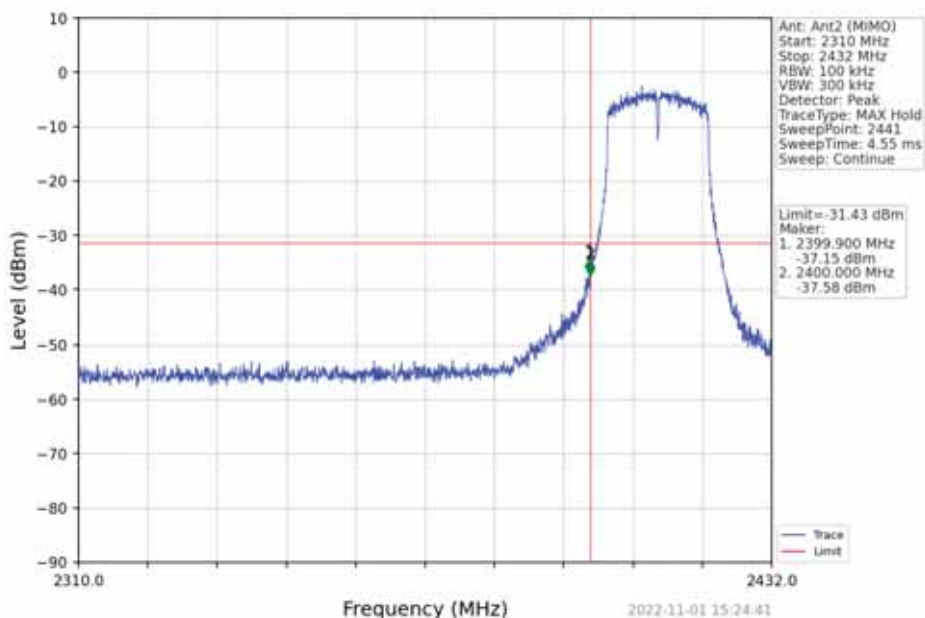


802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

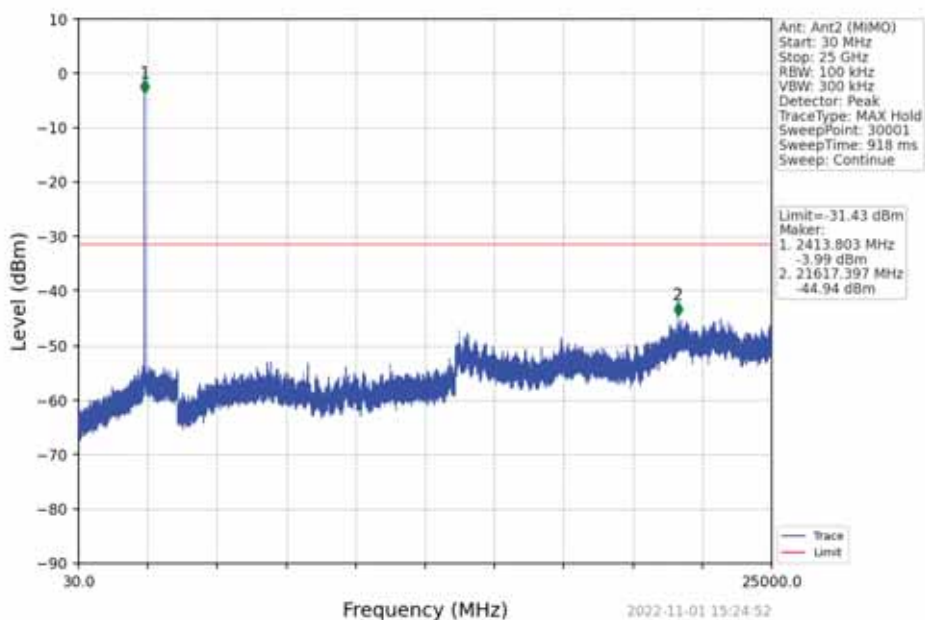




802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV

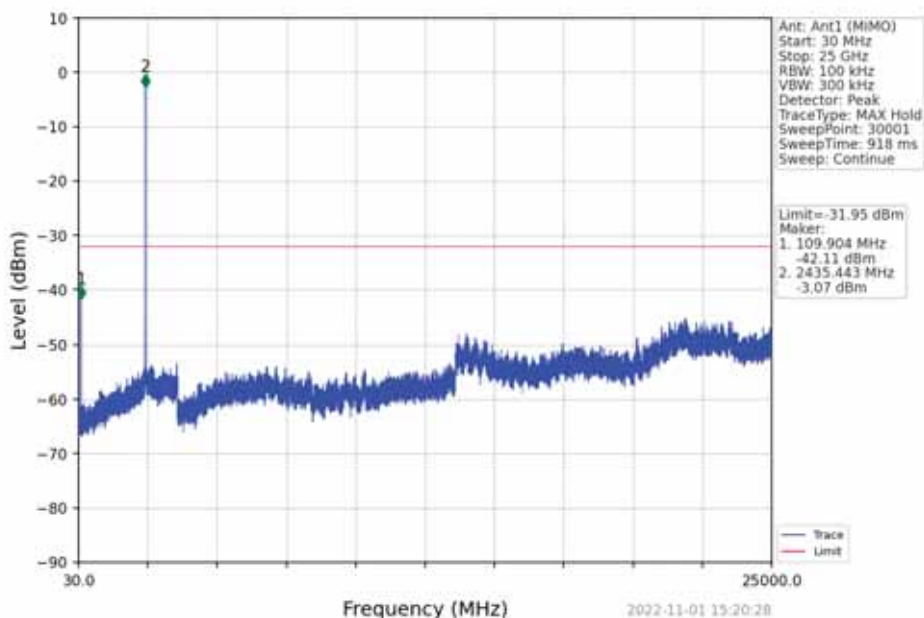


802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV

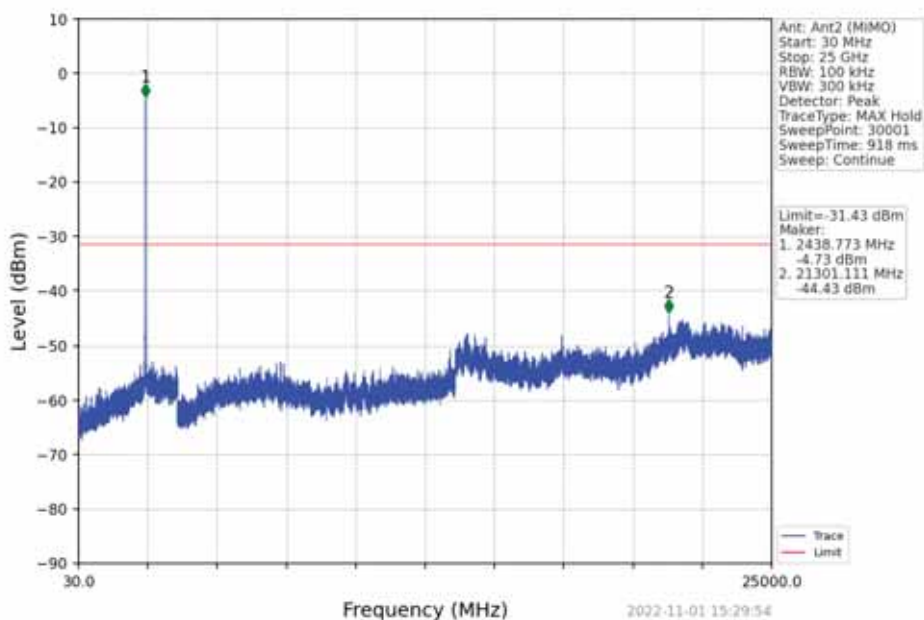




802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTNV

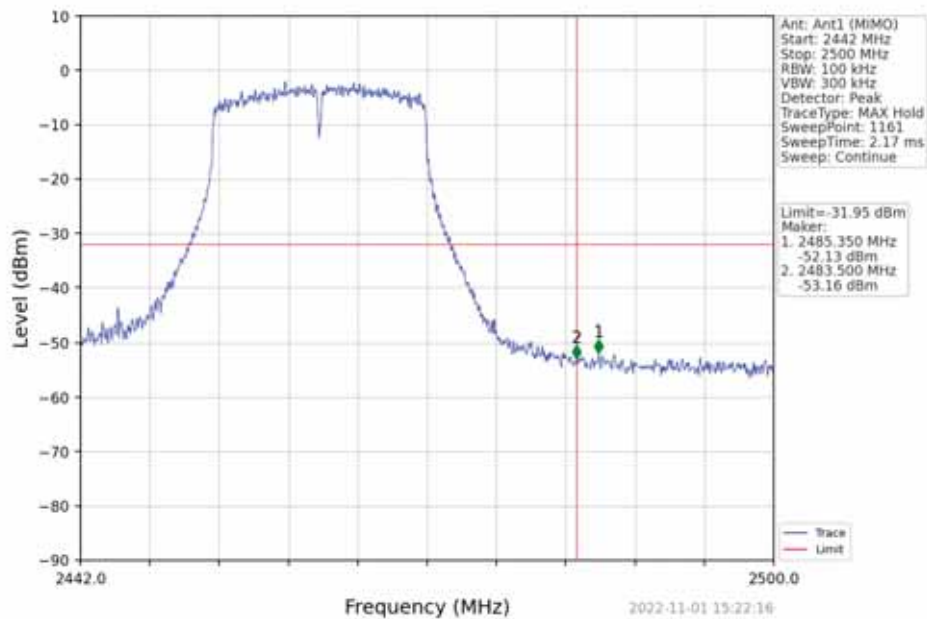


802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTNV

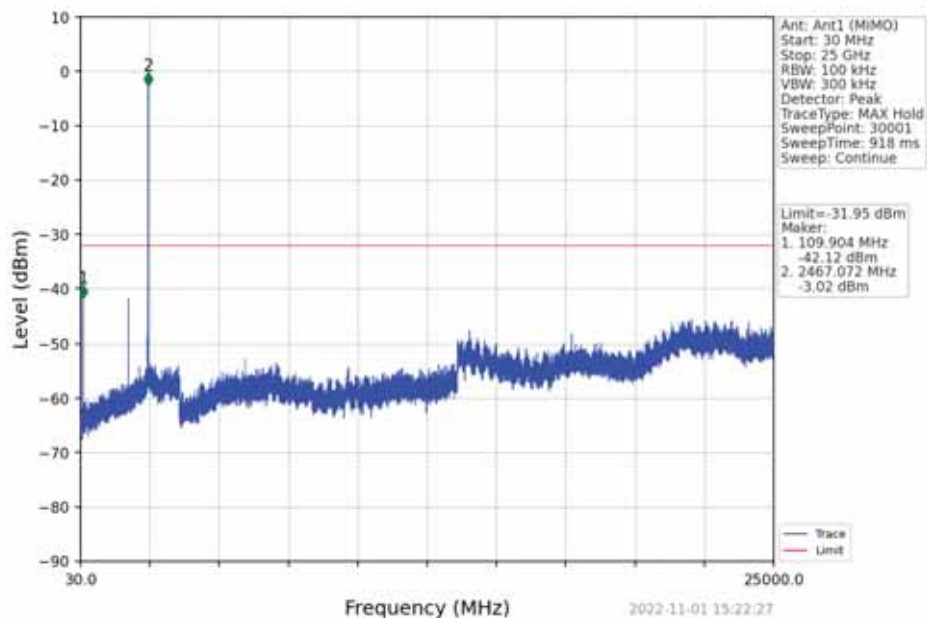




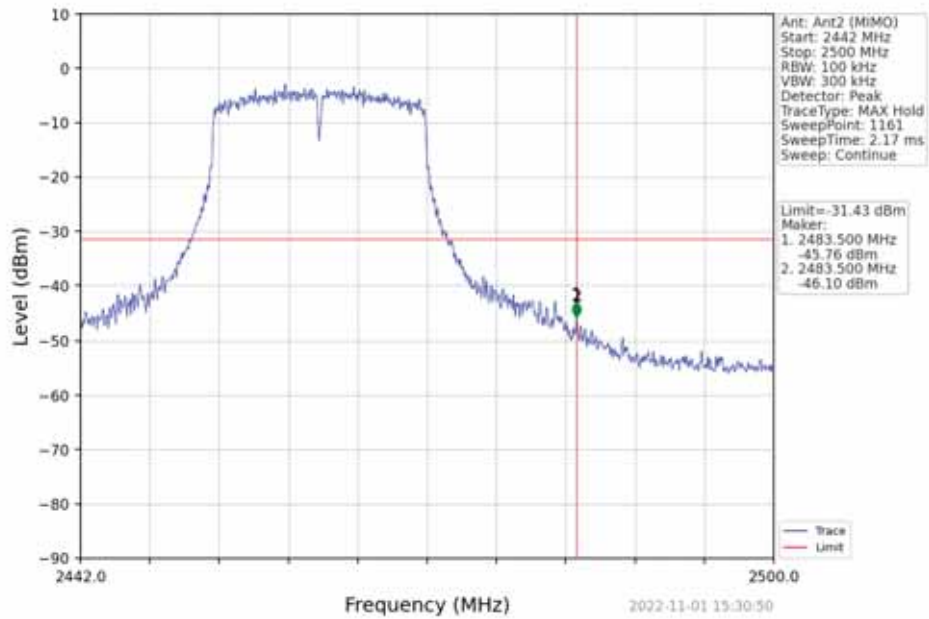
802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTNV



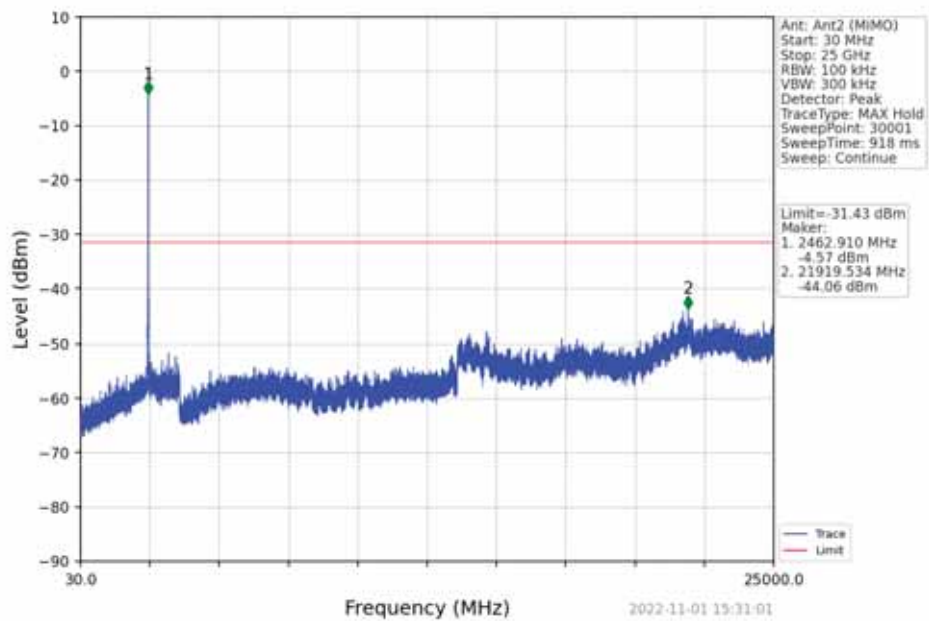
802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTNV



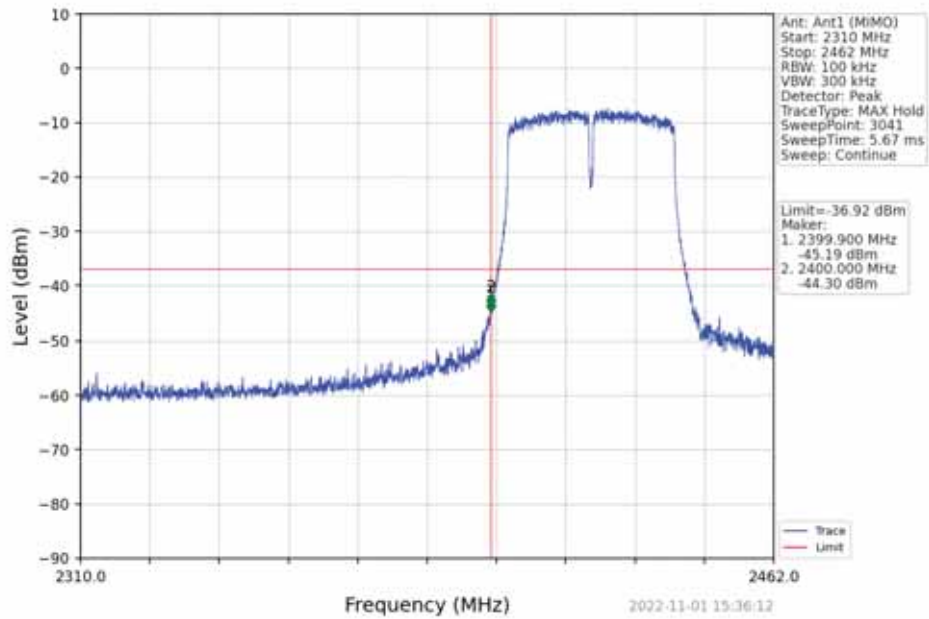
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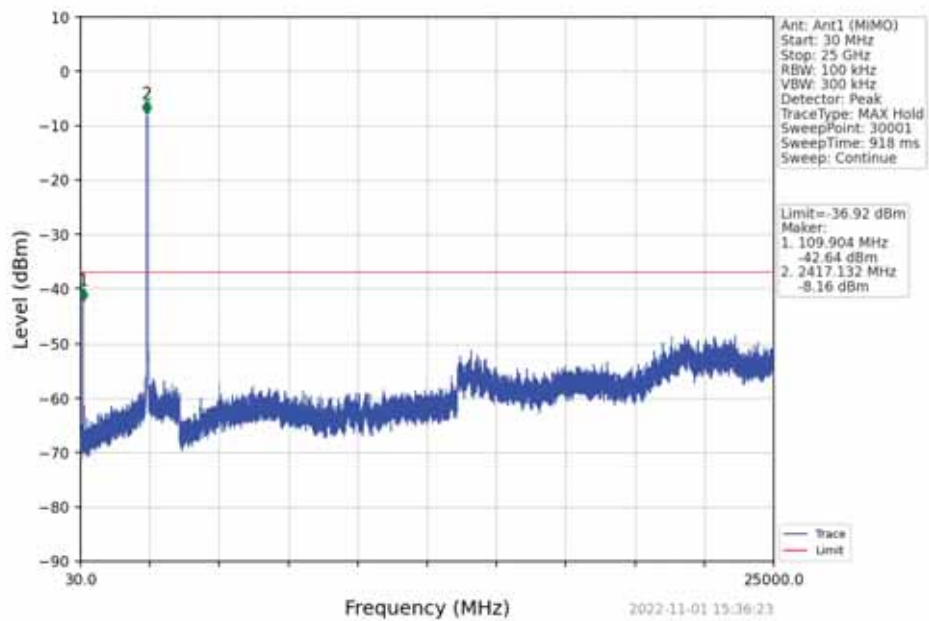
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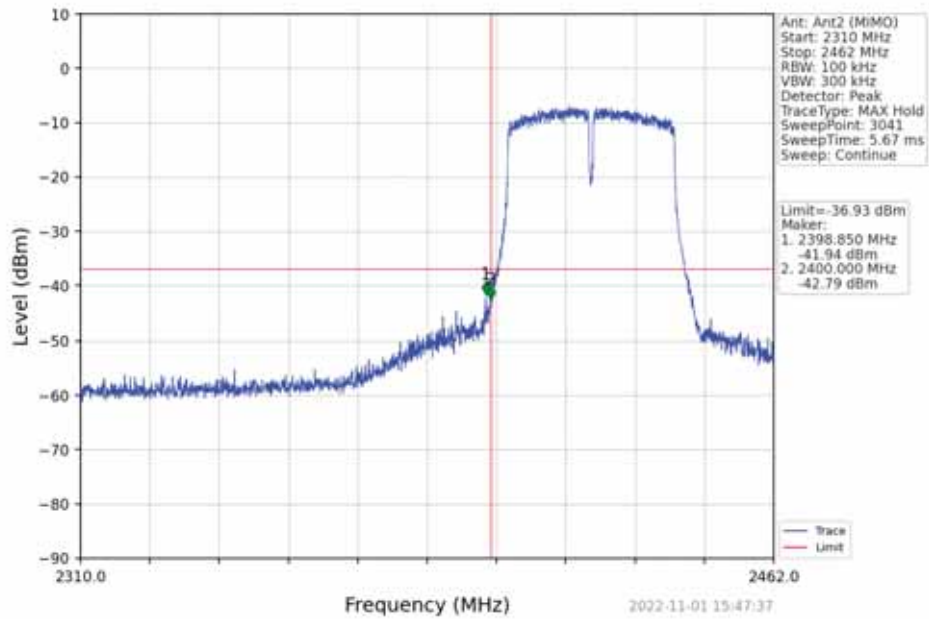
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



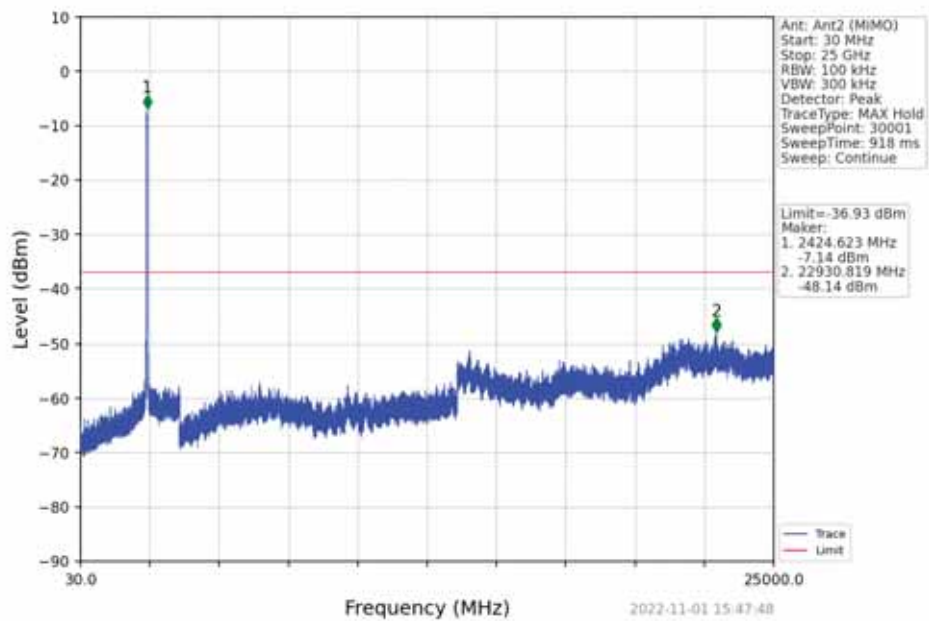
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



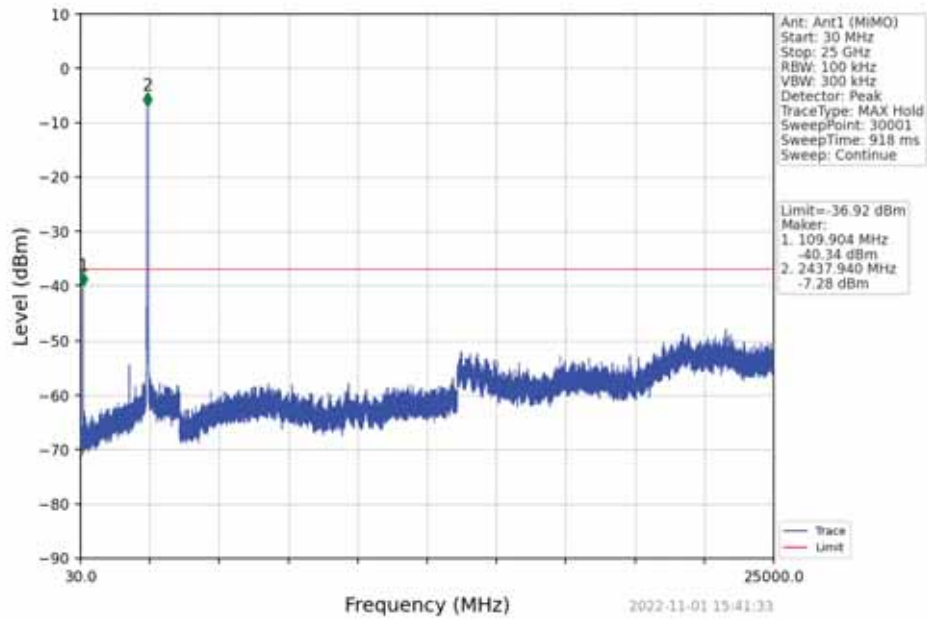
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



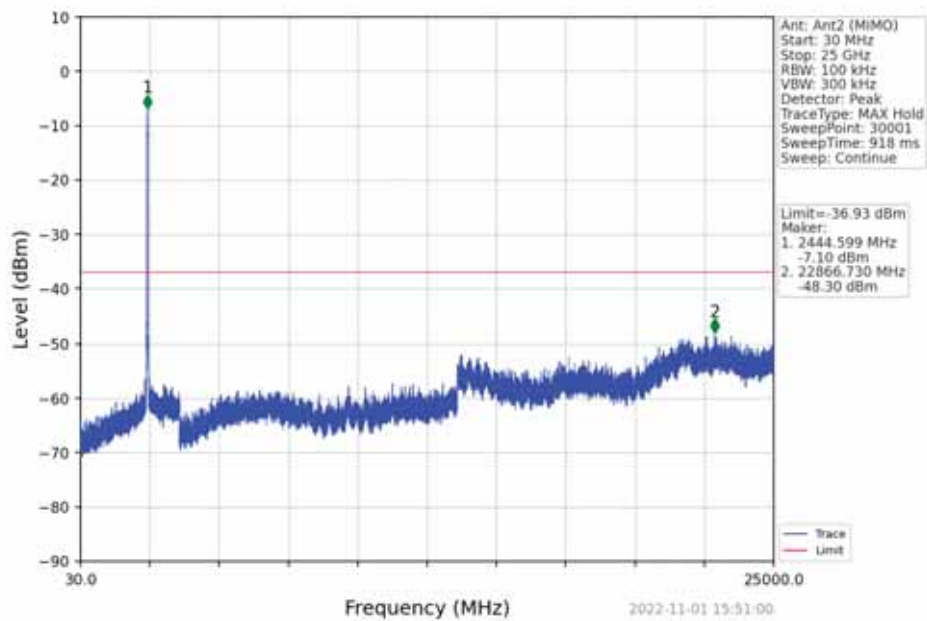
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



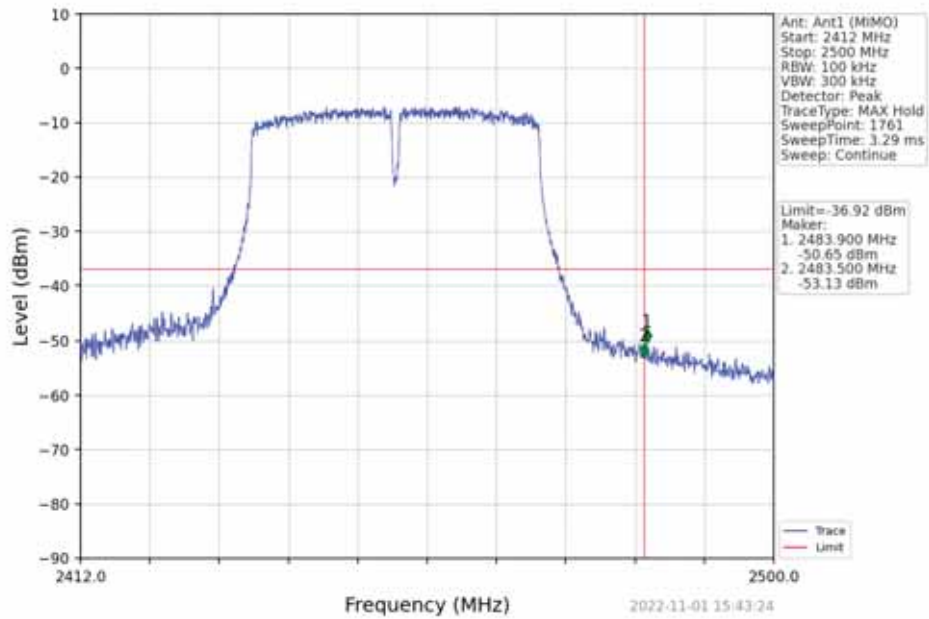
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



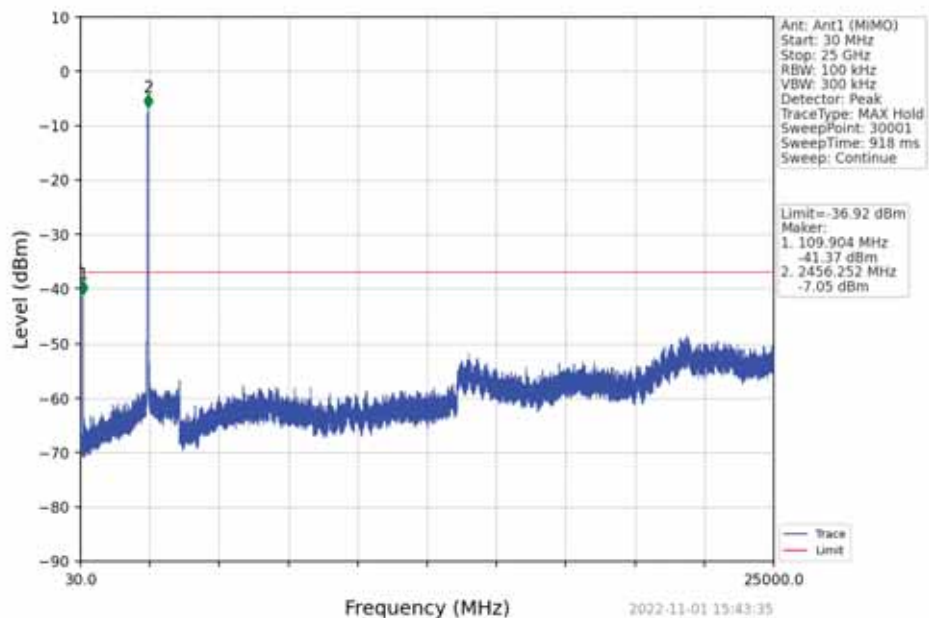
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV

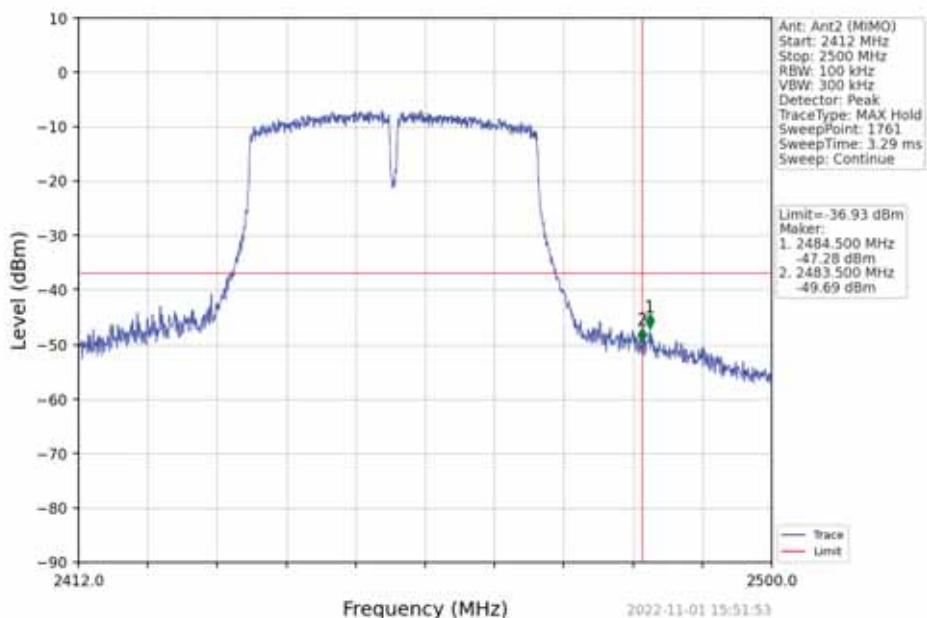


802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV





802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV

