

Appendix C for SHCR212010005403-2.4G WIFI

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

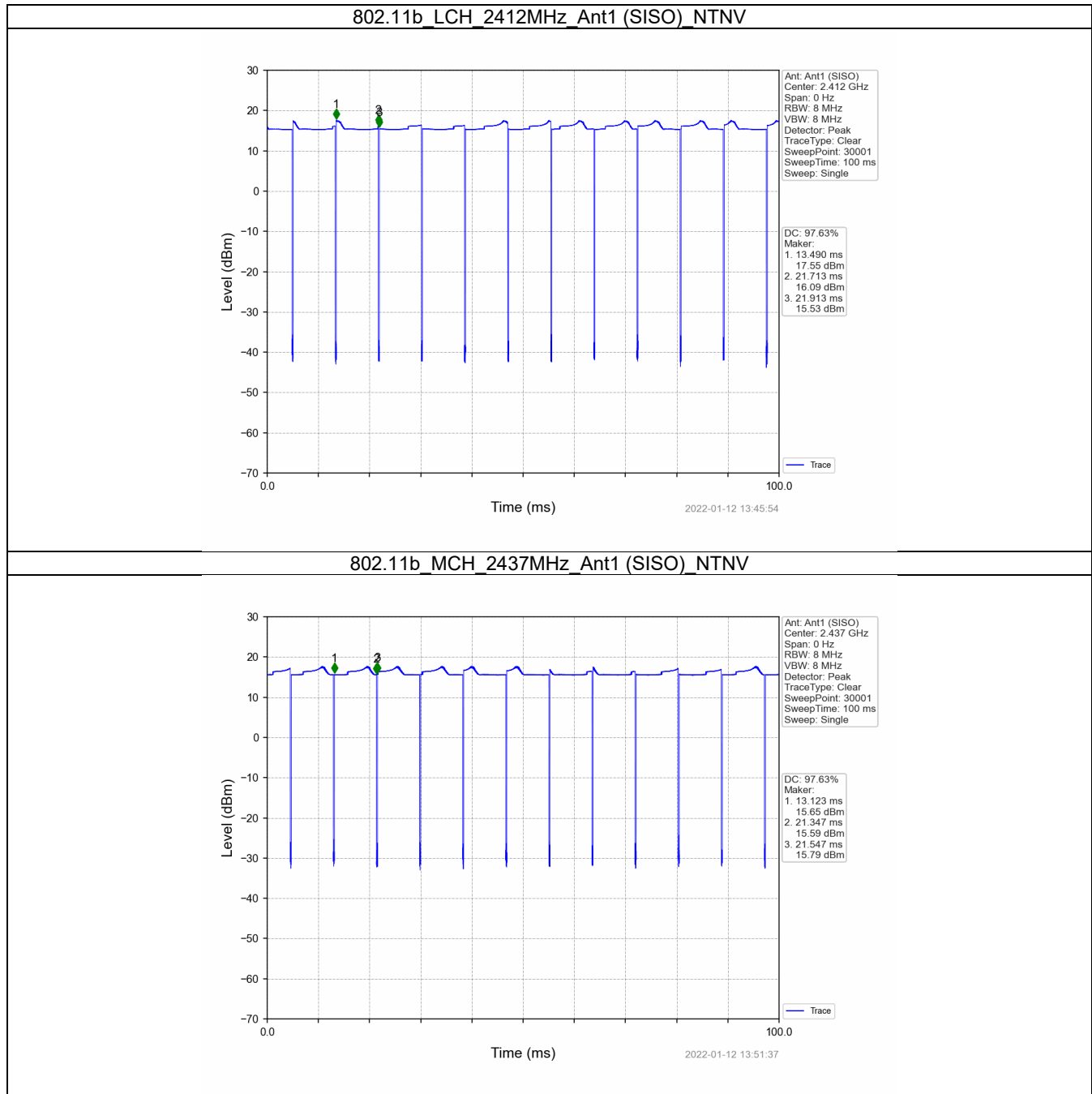
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.223	8.423	97.63	0.10	0.04
		2437	8.224	8.424	97.63	0.10	0.04
		2462	8.223	8.423	97.63	0.10	0.04
802.11g	SISO	2412	1.364	1.562	87.32	0.59	0.03
		2437	1.364	1.562	87.32	0.59	0.03
		2462	1.363	1.562	87.26	0.59	0.03
802.11n (HT20)	SISO	2412	1.276	1.475	86.51	0.63	0.03
		2437	1.276	1.475	86.51	0.63	0.03
		2462	1.276	1.474	86.57	0.63	0.00
802.11n (HT40)	SISO	2422	0.636	0.835	76.17	1.18	0.03
		2437	0.636	0.835	76.17	1.18	0.01
		2452	0.636	0.835	76.17	1.18	0.03



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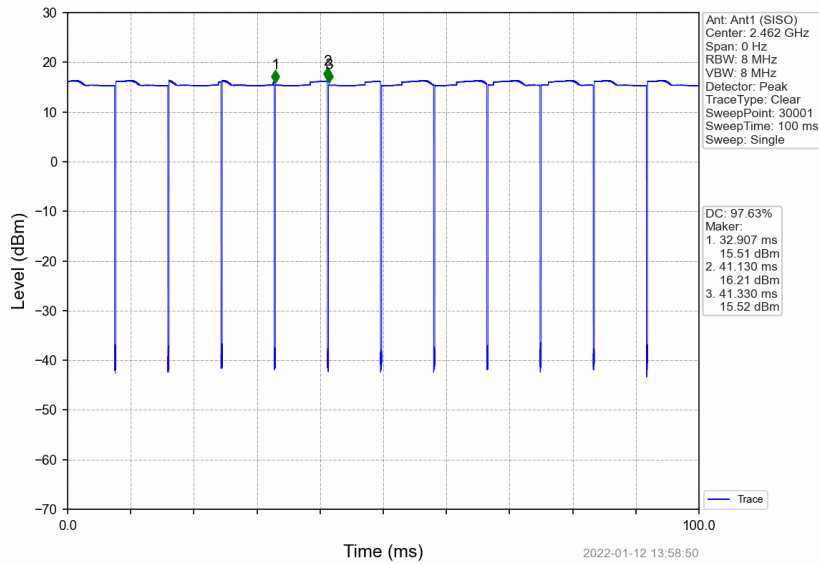
1.1.2 Test Graph



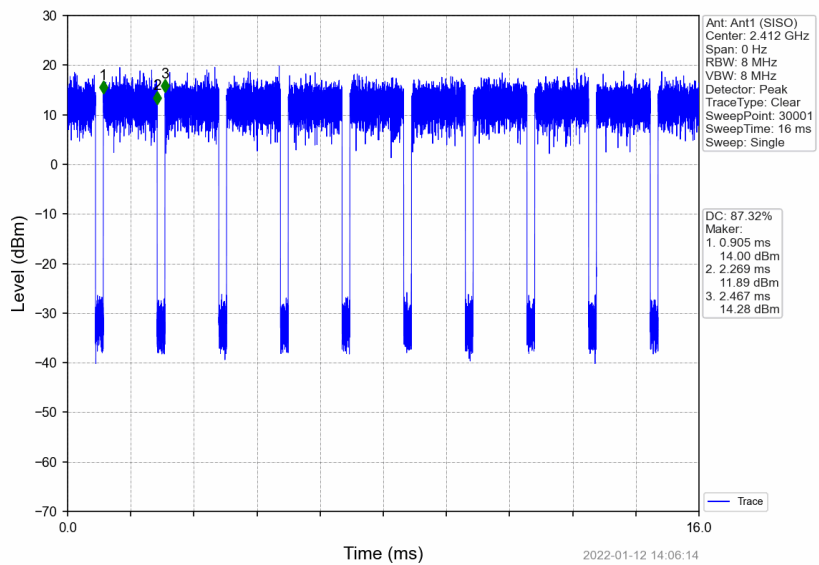
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802.11b HCH 2462MHz Ant1 (SISO) NTN



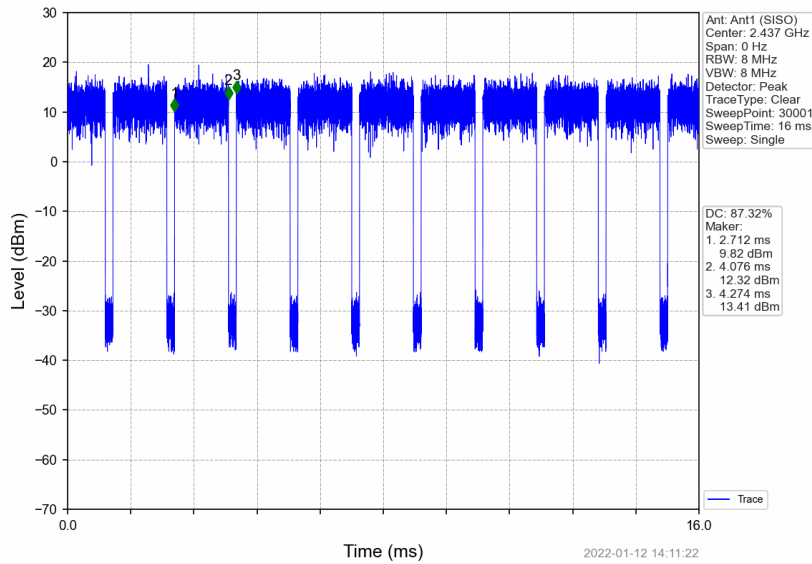
802.11g LCH 2412MHz Ant1 (SISO) NTN



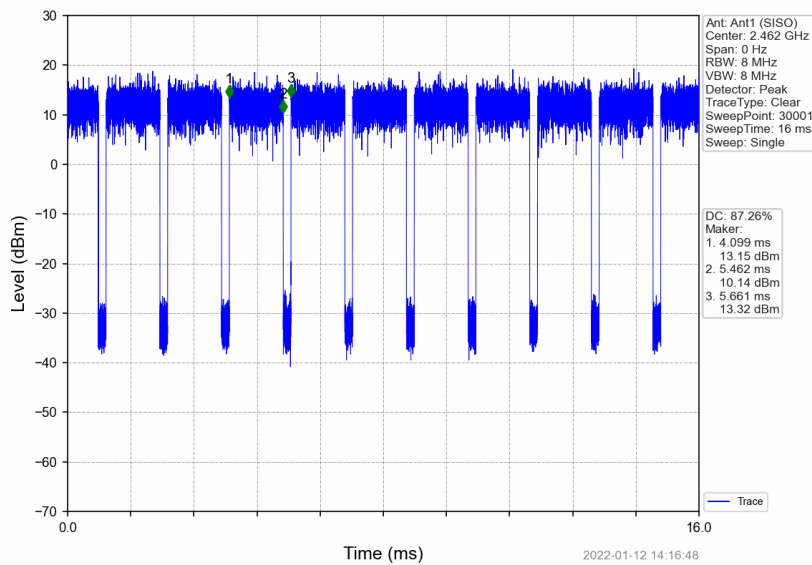
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802.11g MCH 2437MHz Ant1 (SISO) NTN



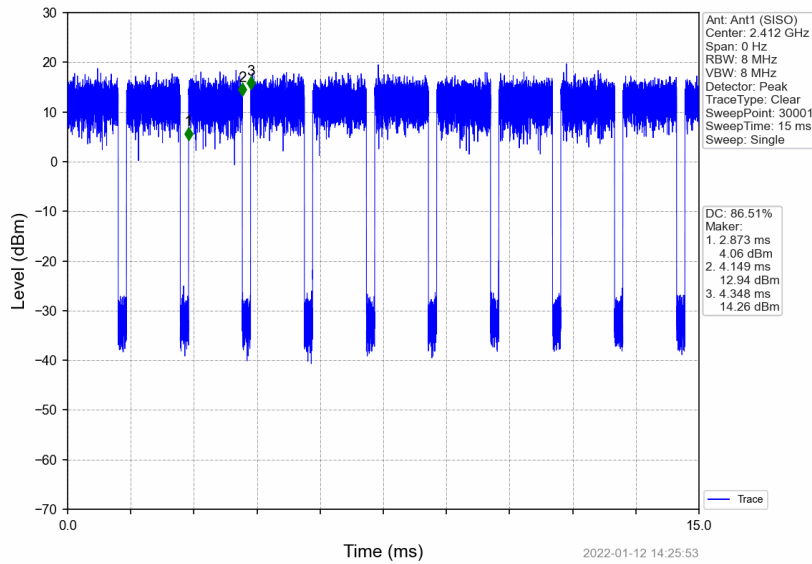
802.11g HCH 2462MHz Ant1 (SISO) NTN



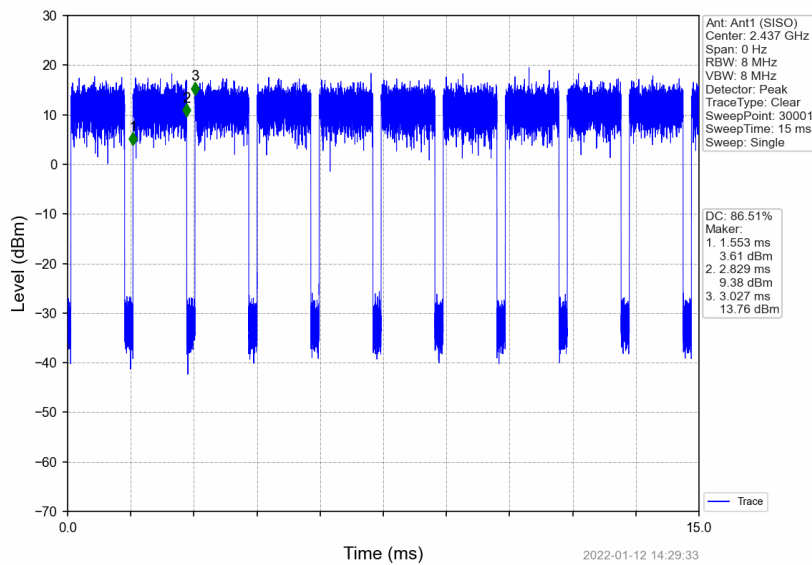
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



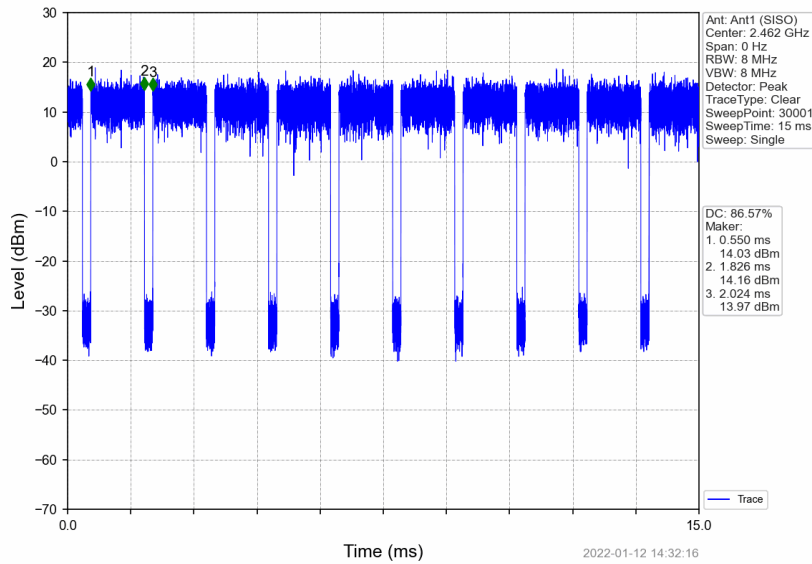
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



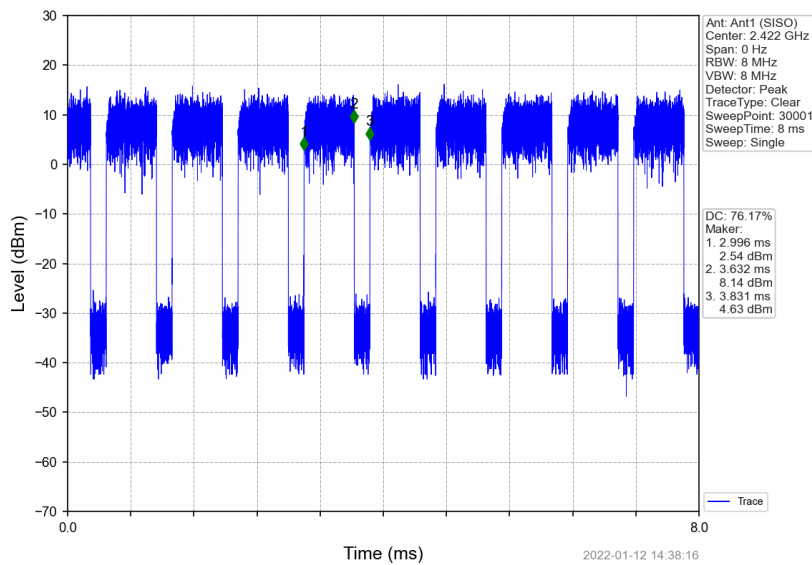
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



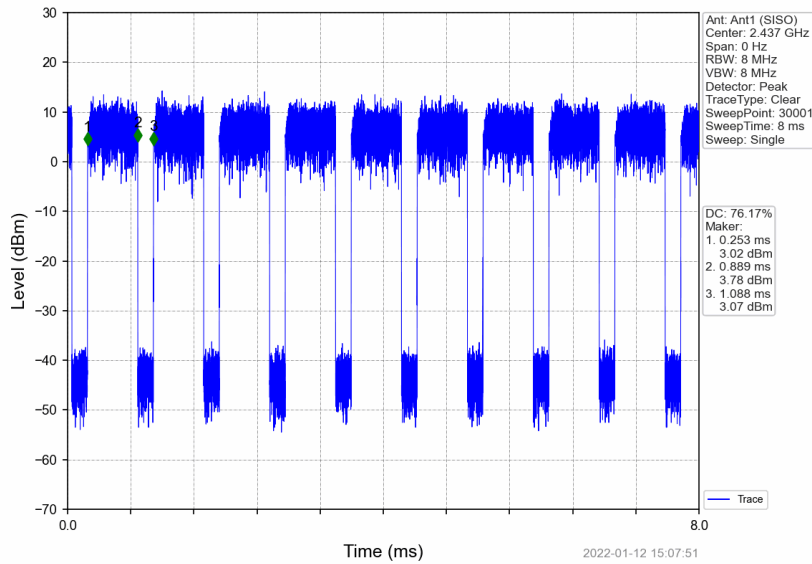
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



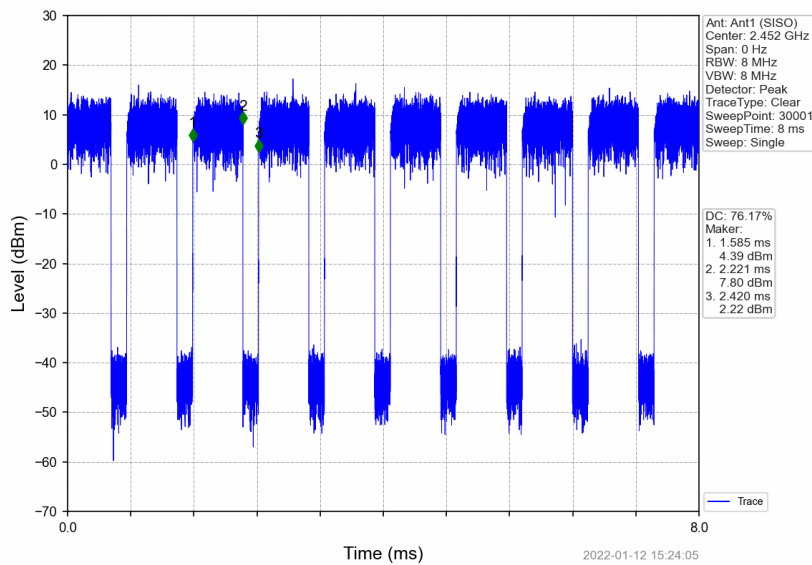
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802.11n(HT40) MCH_2437MHz Ant1 (SISO) NTV



802.11n(HT40) HCH_2452MHz Ant1 (SISO) NTV



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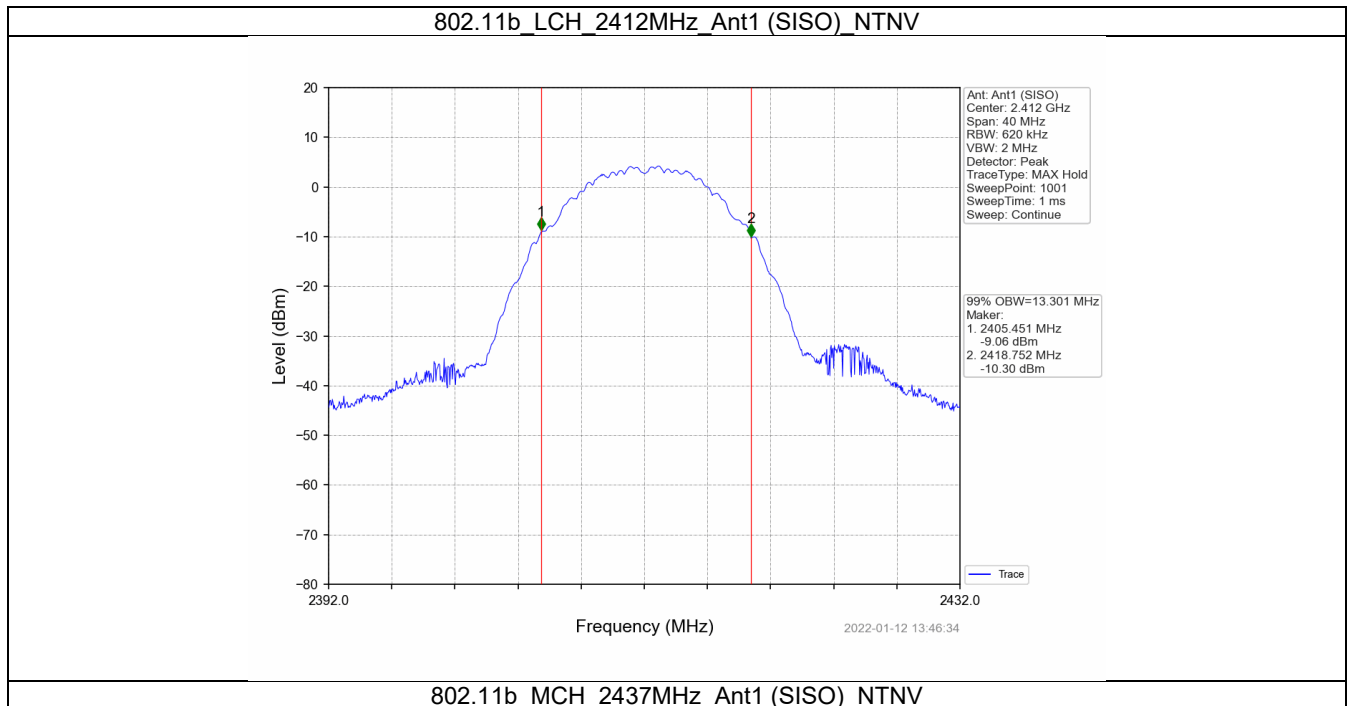
2. Bandwidth

2.1 OBW

2.1.1 Test Result

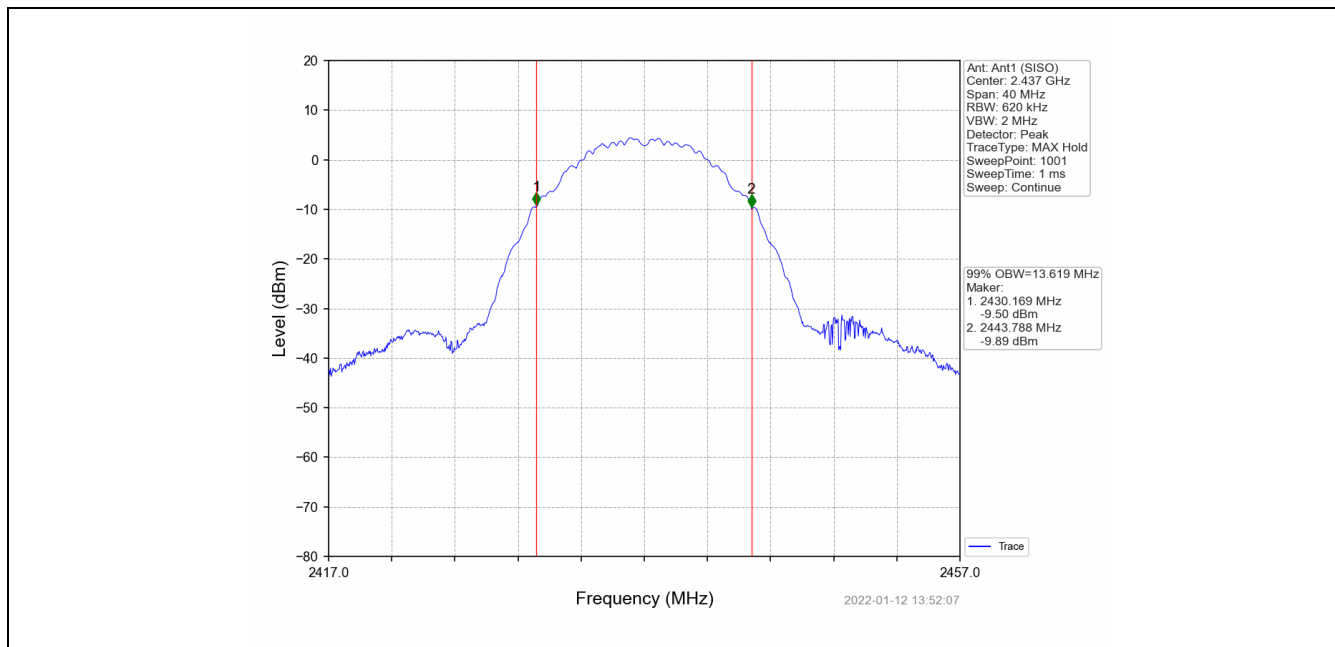
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)		Verdict
				Start	Result	
802.11b	SISO	2412	1		13.301	Pass
		2437	1		13.619	Pass
		2462	1		13.394	Pass
802.11g	SISO	2412	1		18.171	Pass
		2437	1		18.596	Pass
		2462	1		18.222	Pass
802.11n (HT20)	SISO	2412	1		18.941	Pass
		2437	1		19.274	Pass
		2462	1		19.007	Pass
802.11n (HT40)	SISO	2422	1		37.083	Pass
		2437	1		37.828	Pass
		2452	1		36.814	Pass

2.1.2 Test Graph

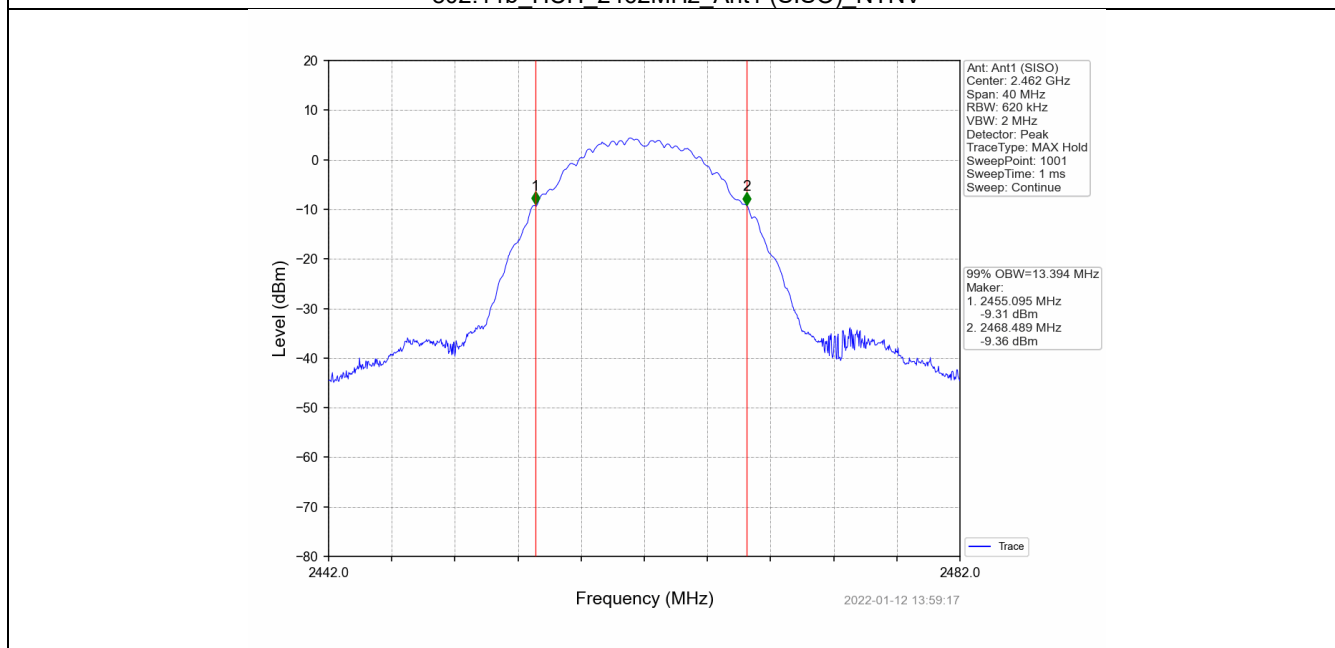


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802.11b_HCH_2462MHz_Ant1 (SISO) NTNv

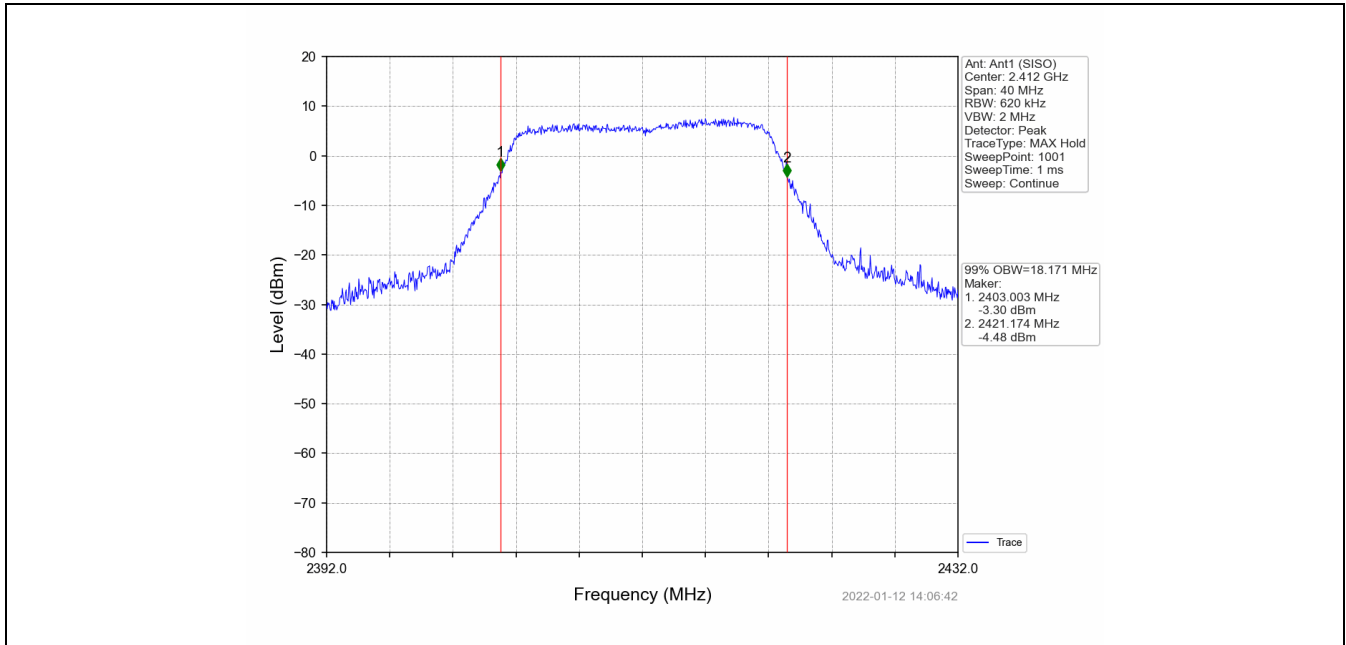


802.11g_LCH_2412MHz_Ant1 (SISO) NTNv

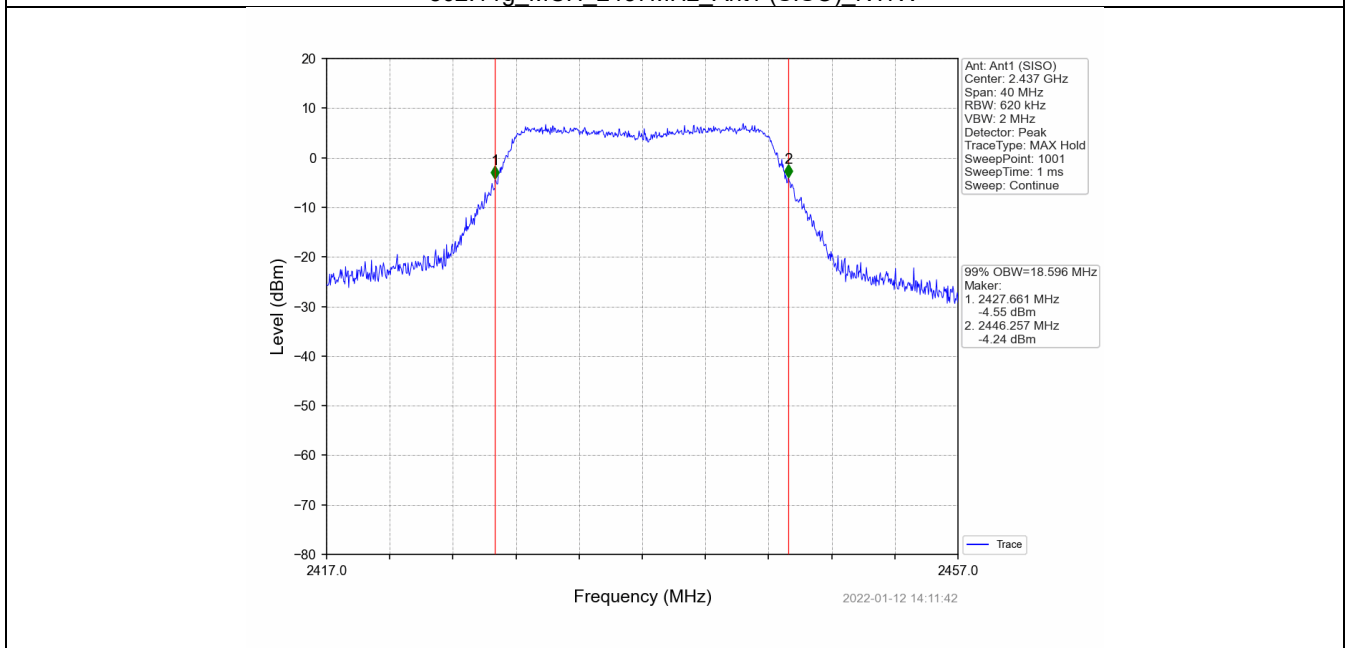


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802.11g_MCH_2437MHz_Ant1 (SISO) NTV

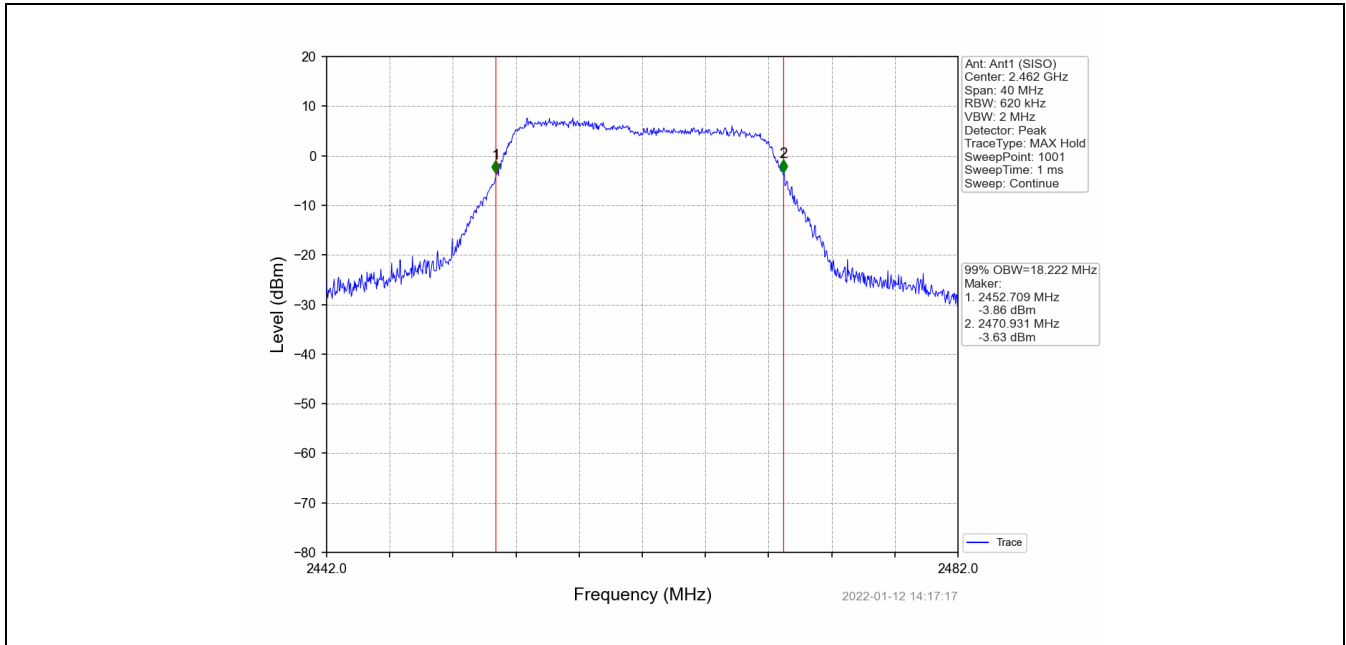


802.11g_HCH_2462MHz_Ant1 (SISO) NTV

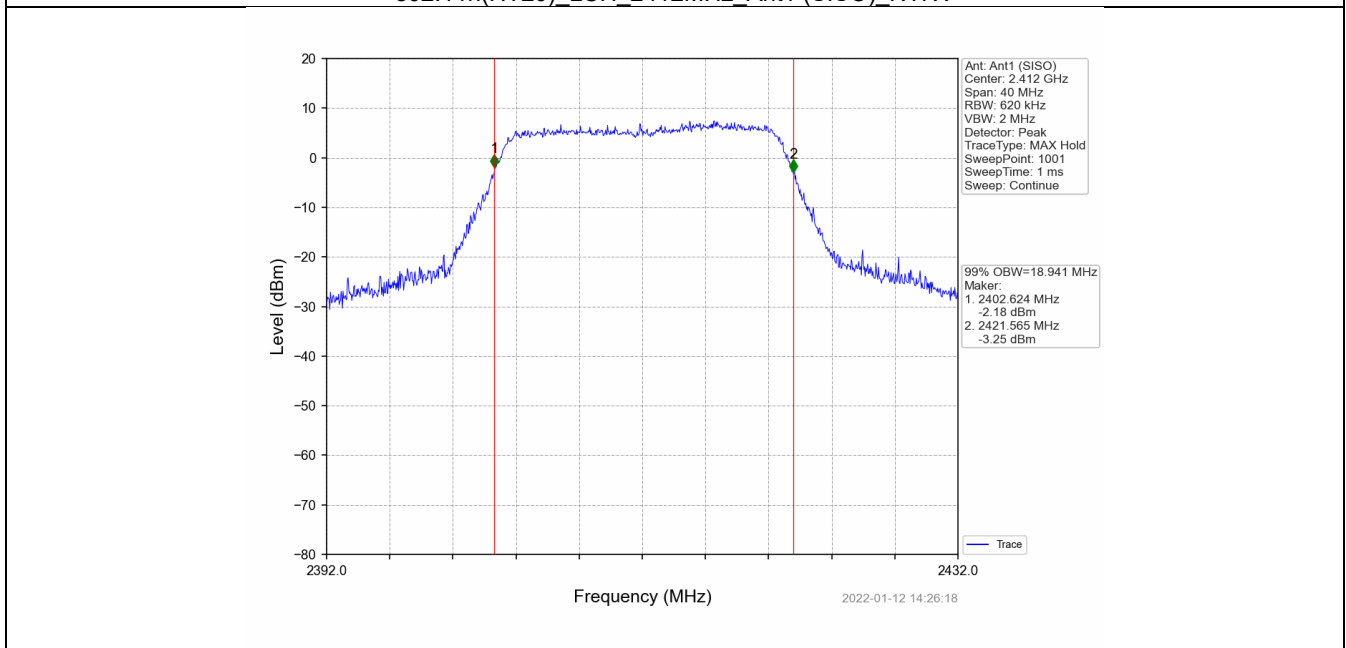


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802.11n(HT20) LCH_2412MHz_Ant1 (SISO)_NTNV

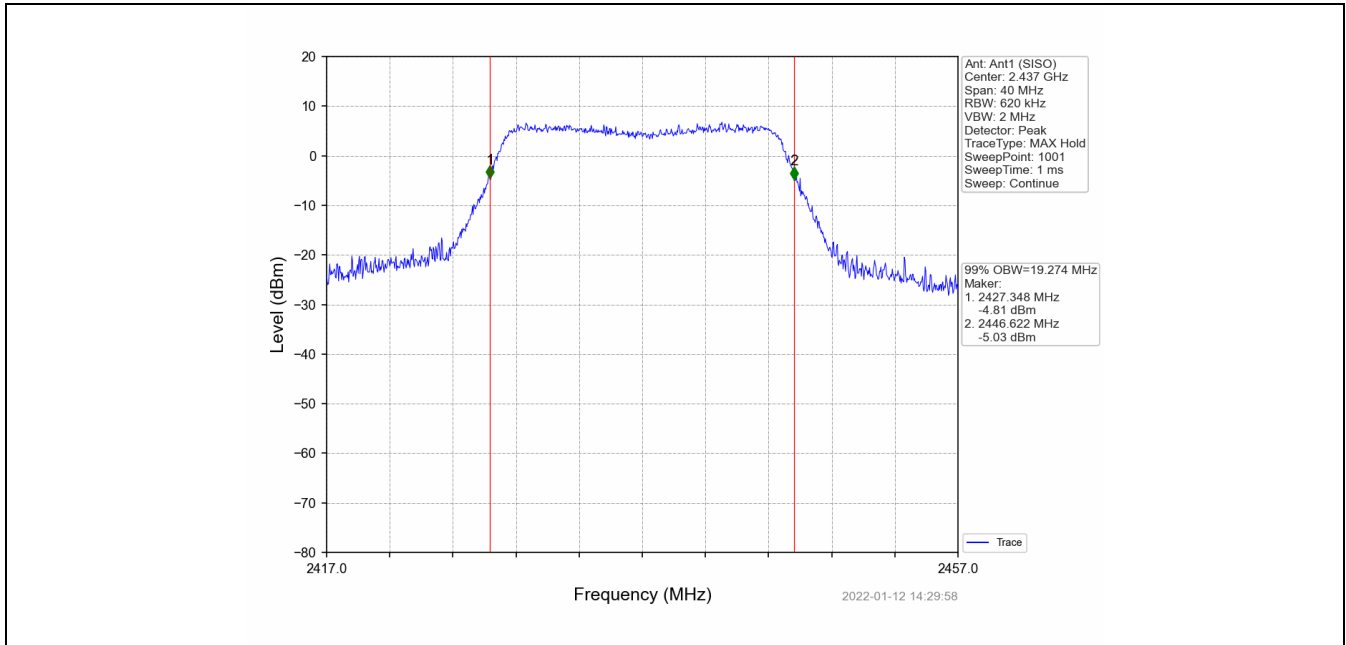


802.11n(HT20) MCH_2437MHz_Ant1 (SISO)_NTNV

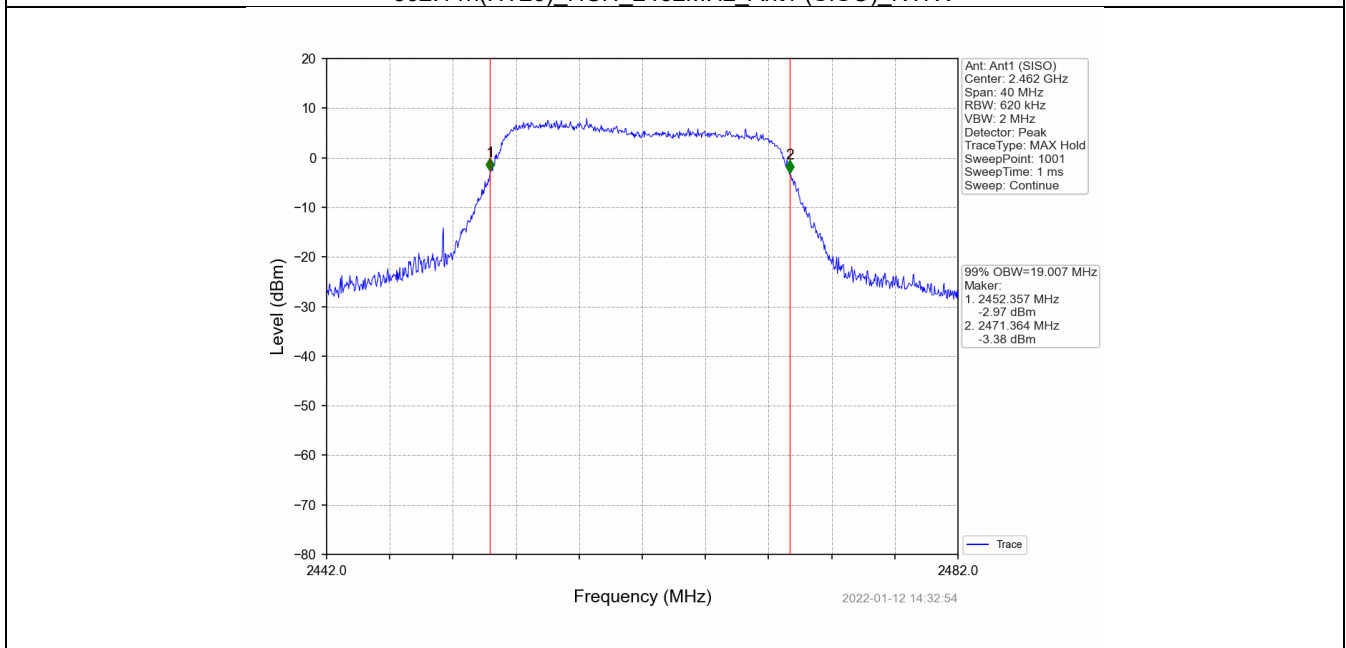


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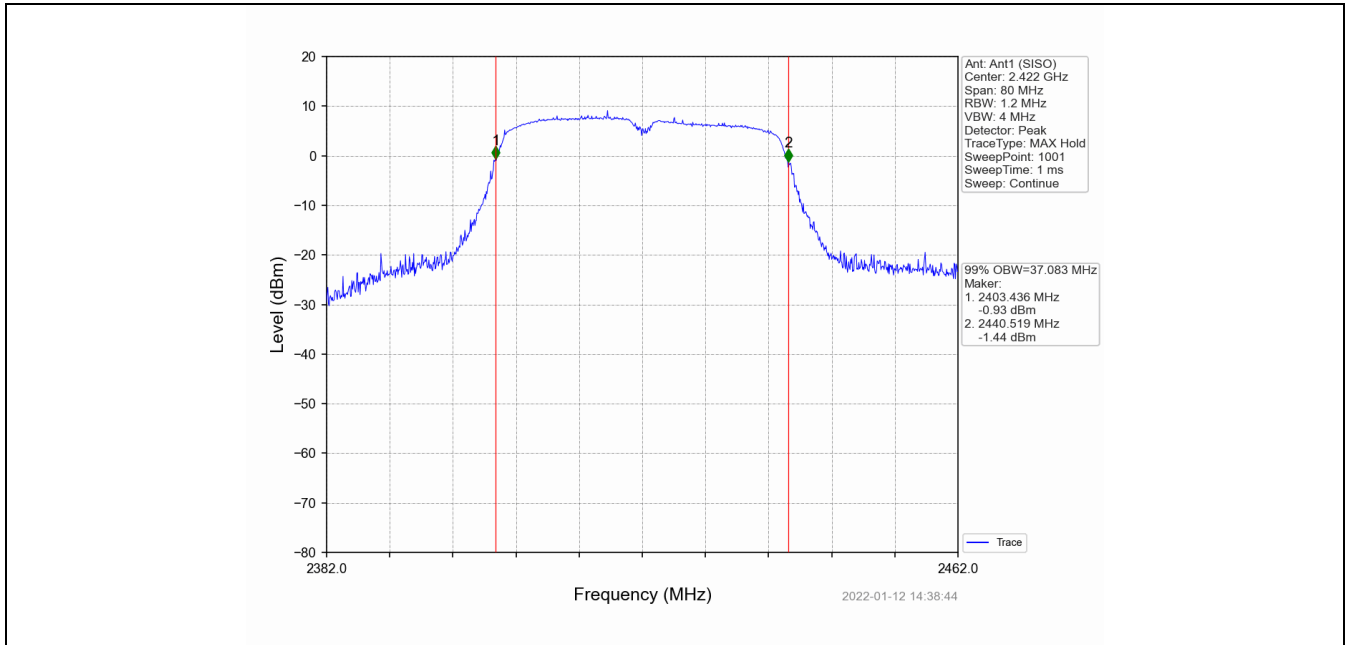


802.11n(HT40) LCH_2422MHz_Ant1 (SISO)_NTNV

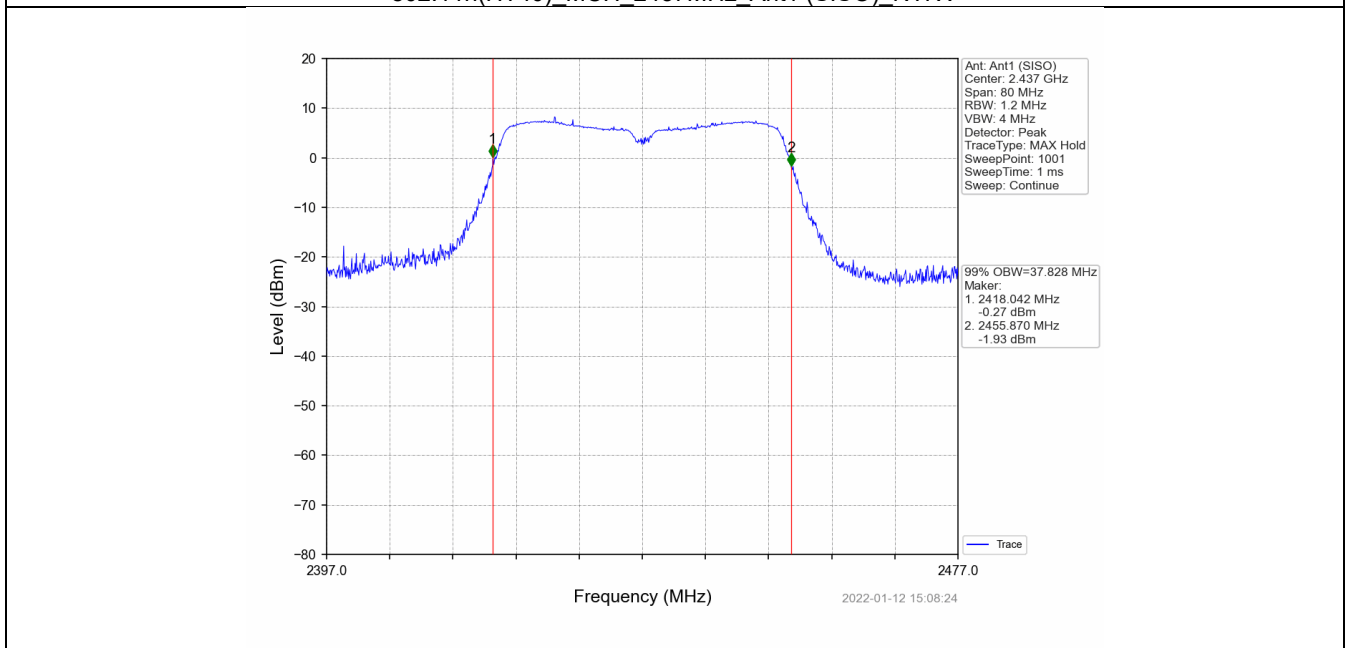


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802.11n(HT40) MCH_2437MHz Ant1 (SISO) NTV

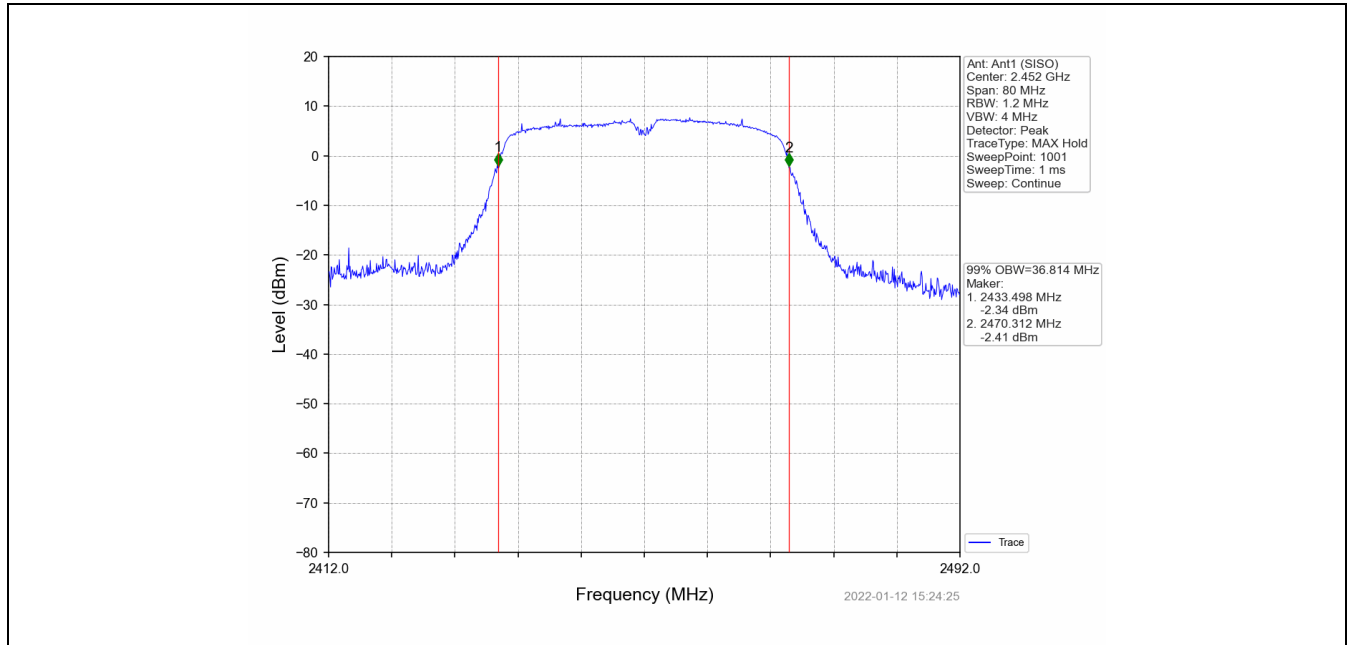


802.11n(HT40) HCH_2452MHz Ant1 (SISO) NTV



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2.2 6dB BW

2.2.1 Test Result

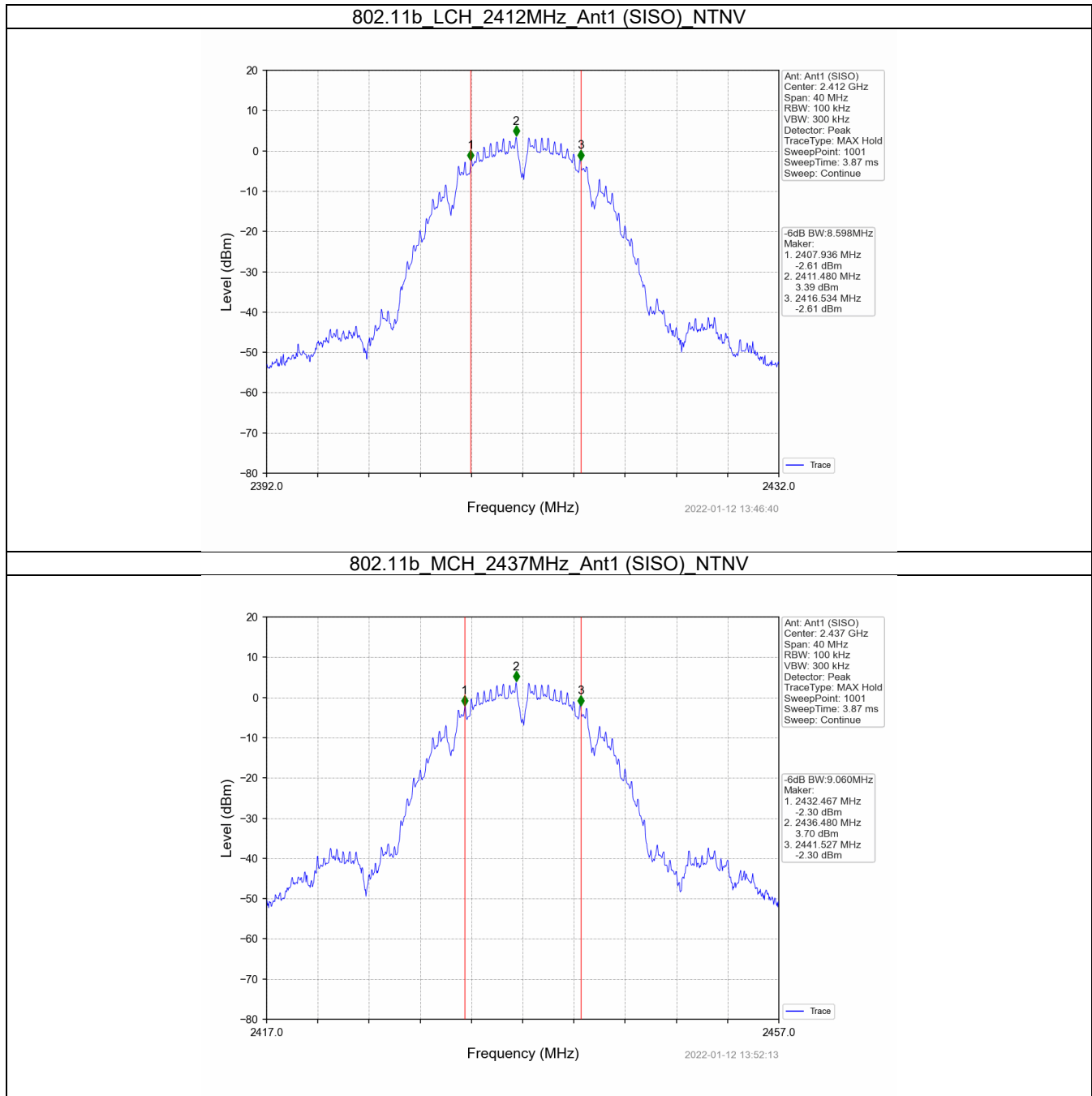
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.598	>=0.5	Pass
		2437	1	9.060	>=0.5	Pass
		2462	1	8.142	>=0.5	Pass
802.11g	SISO	2412	1	16.361	>=0.5	Pass
		2437	1	16.438	>=0.5	Pass
		2462	1	15.960	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.343	>=0.5	Pass
		2437	1	17.640	>=0.5	Pass
		2462	1	17.199	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.166	>=0.5	Pass
		2437	1	35.724	>=0.5	Pass
		2452	1	35.158	>=0.5	Pass



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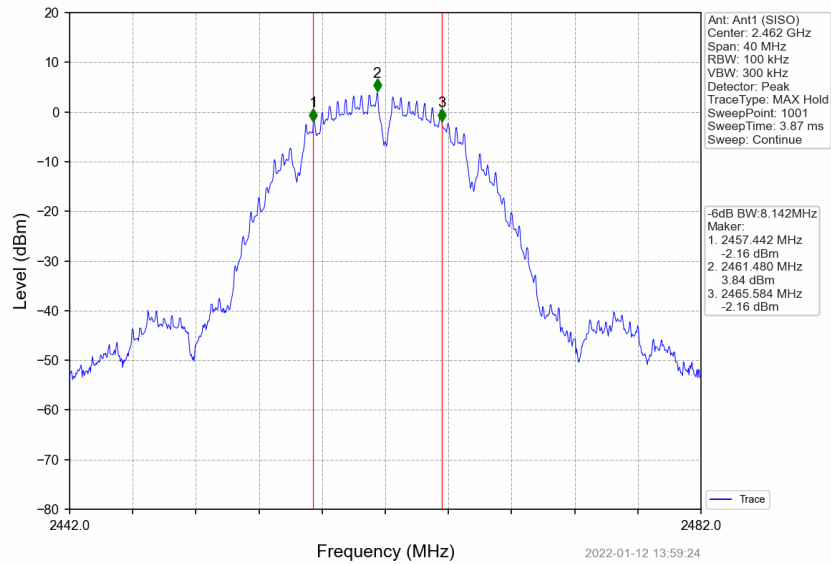
2.2.2 Test Graph



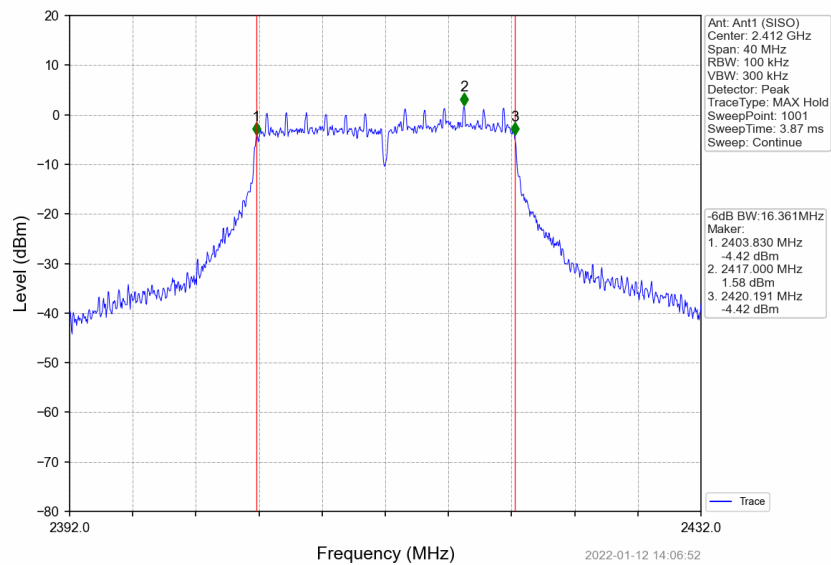
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802.11b HCH 2462MHz Ant1 (SISO) NTV



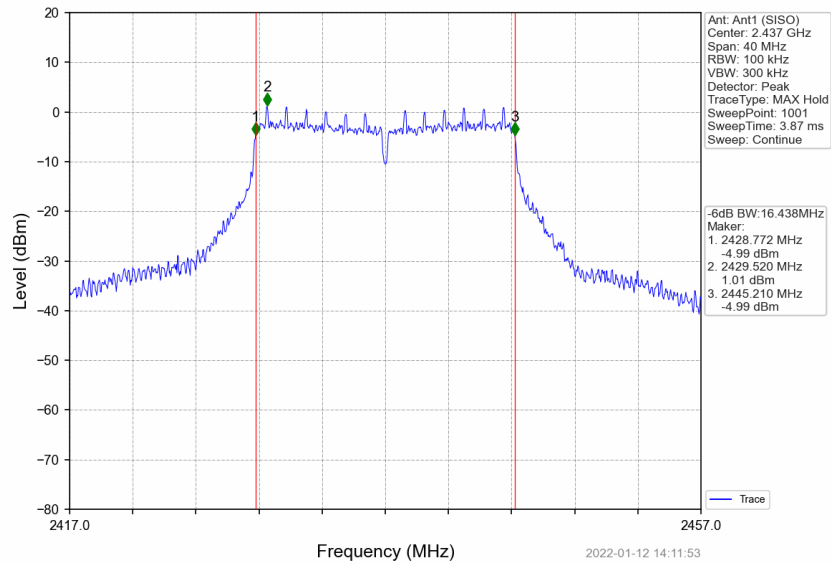
802.11g LCH 2412MHz Ant1 (SISO) NTV



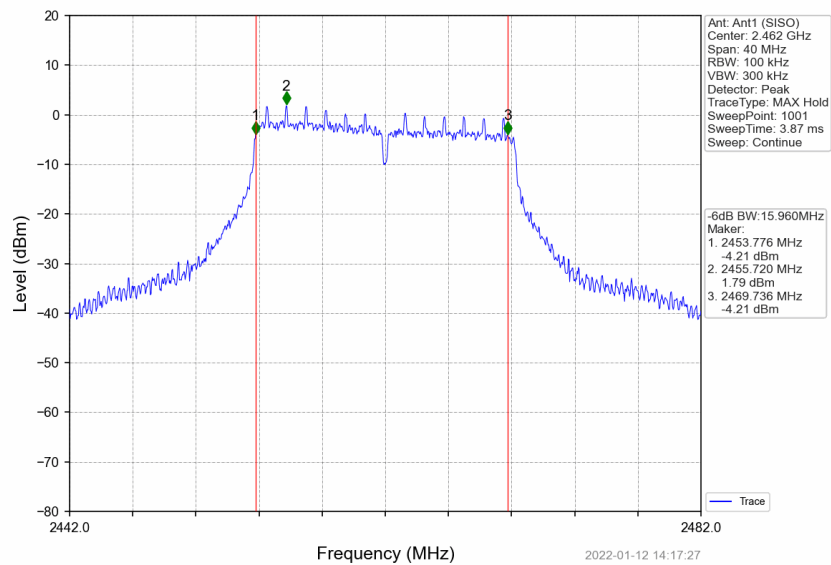
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802.11g MCH 2437MHz Ant1 (SISO) NTVN



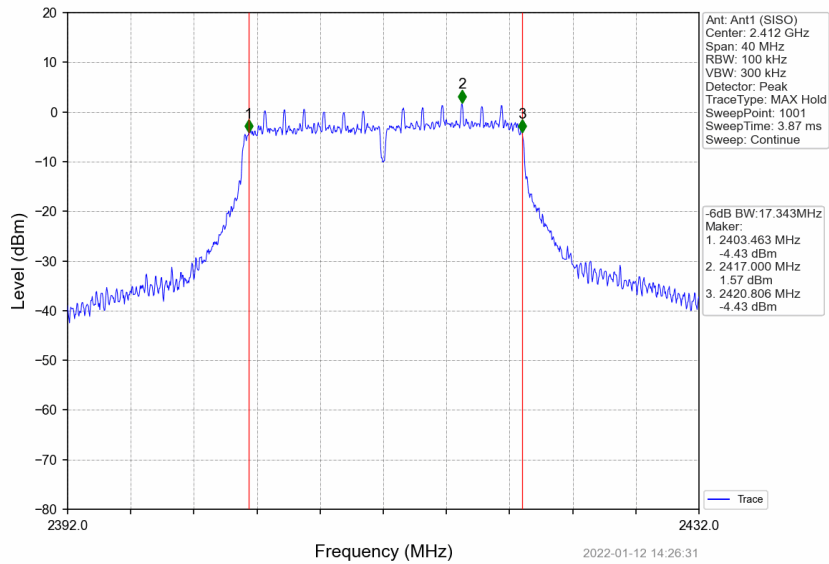
802.11g HCH 2462MHz Ant1 (SISO) NTVN



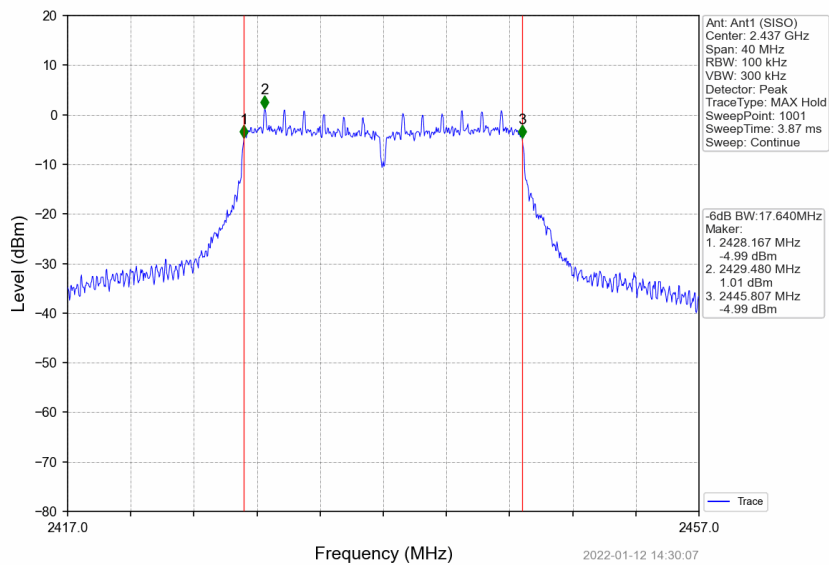
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



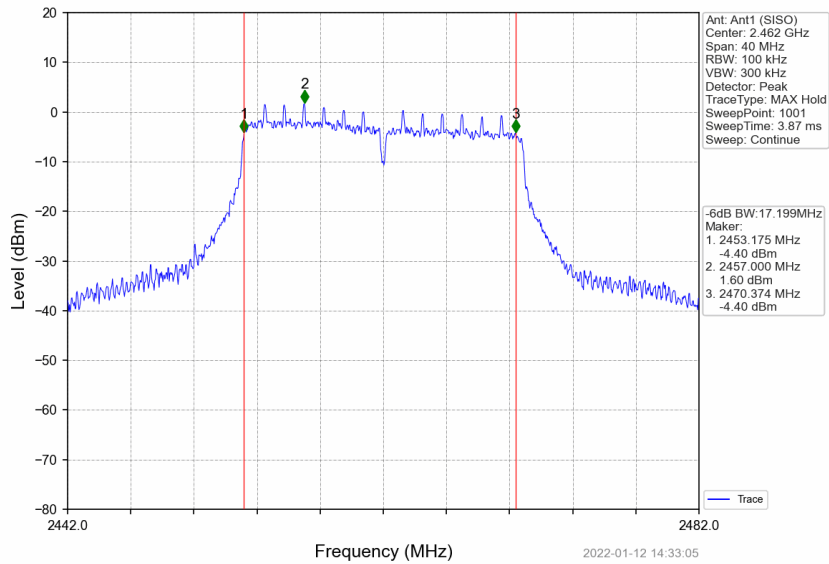
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



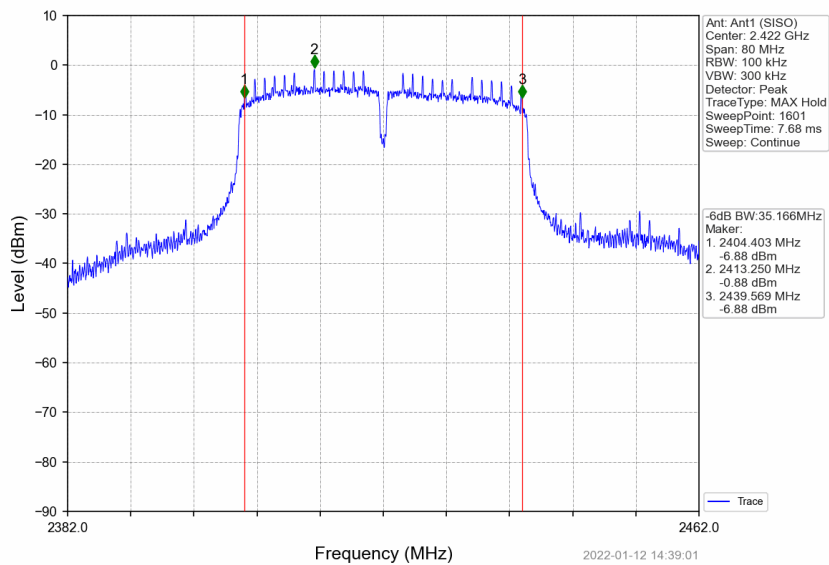
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV

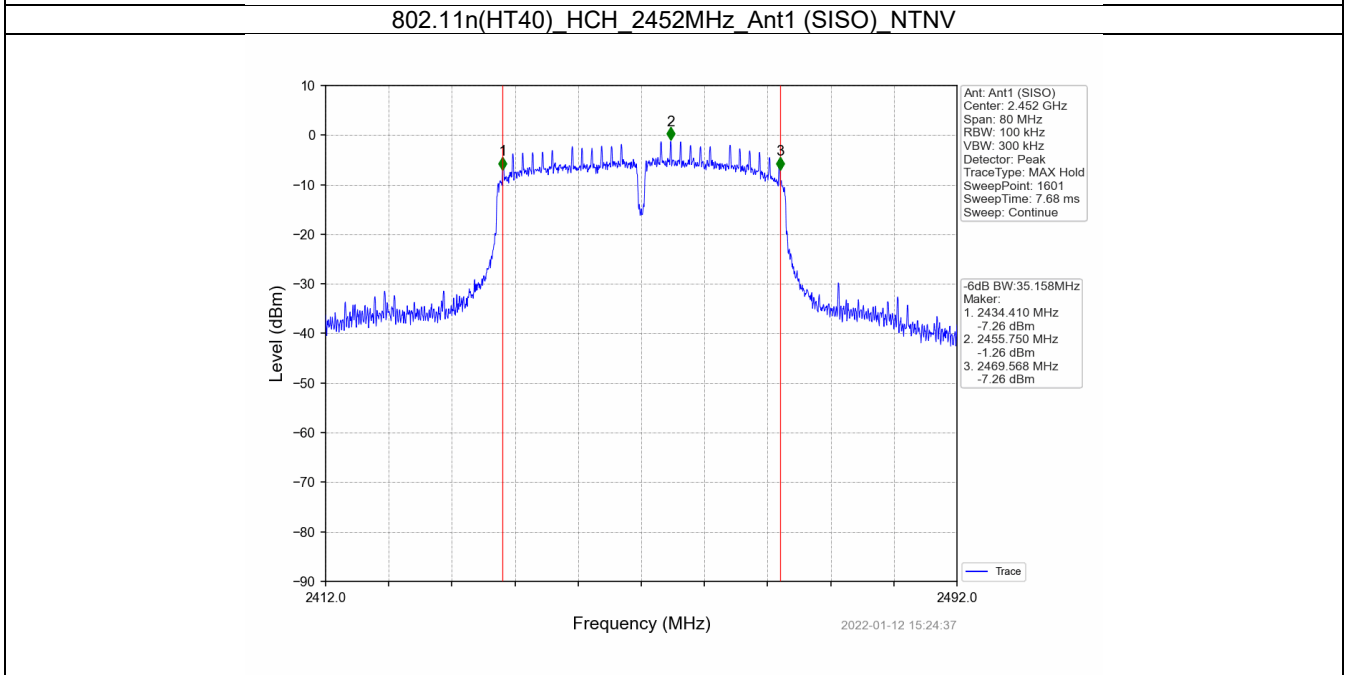
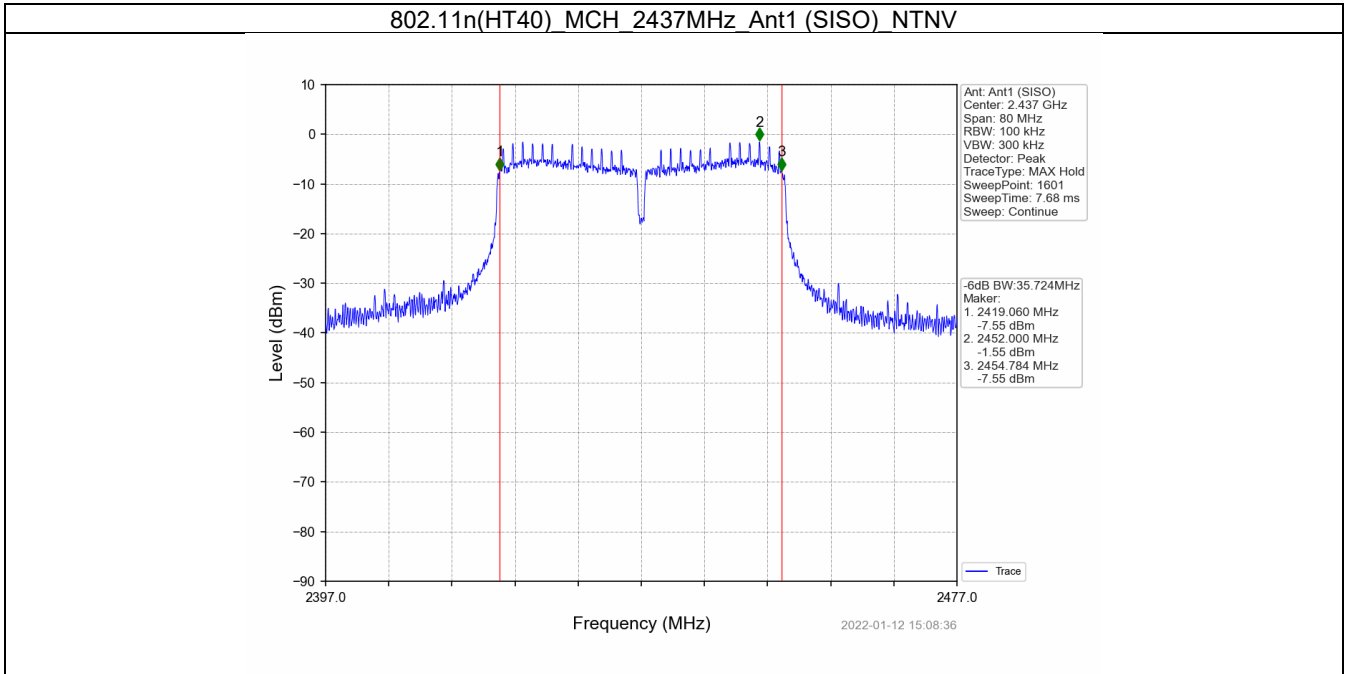


802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



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3. Maximum Conducted Output Power

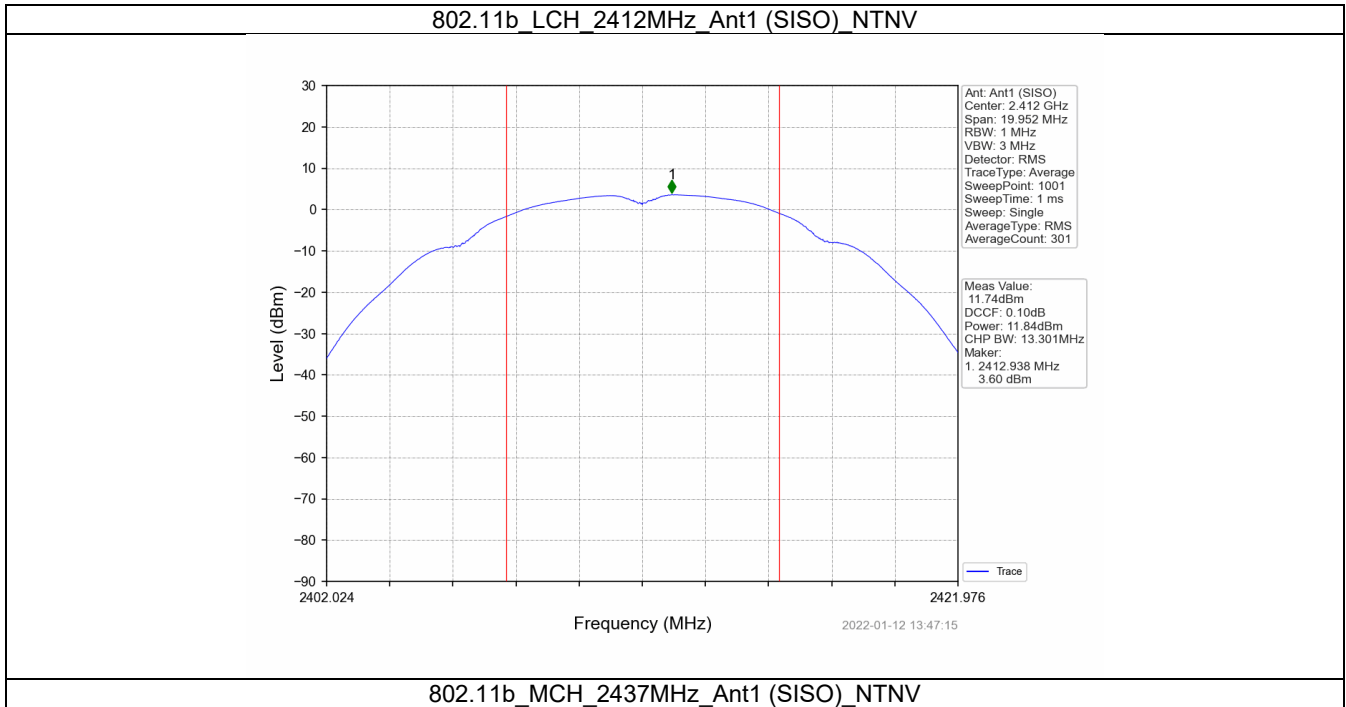
3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	11.84	<=30	Pass
		2437	12.20	<=30	Pass
		2462	11.95	<=30	Pass
802.11g	SISO	2412	12.12	<=30	Pass
		2437	11.87	<=30	Pass
		2462	11.88	<=30	Pass
802.11n (HT20)	SISO	2412	12.16	<=30	Pass
		2437	11.92	<=30	Pass
		2462	11.81	<=30	Pass
802.11n (HT40)	SISO	2422	12.17	<=30	Pass
		2437	11.95	<=30	Pass
		2452	11.77	<=30	Pass

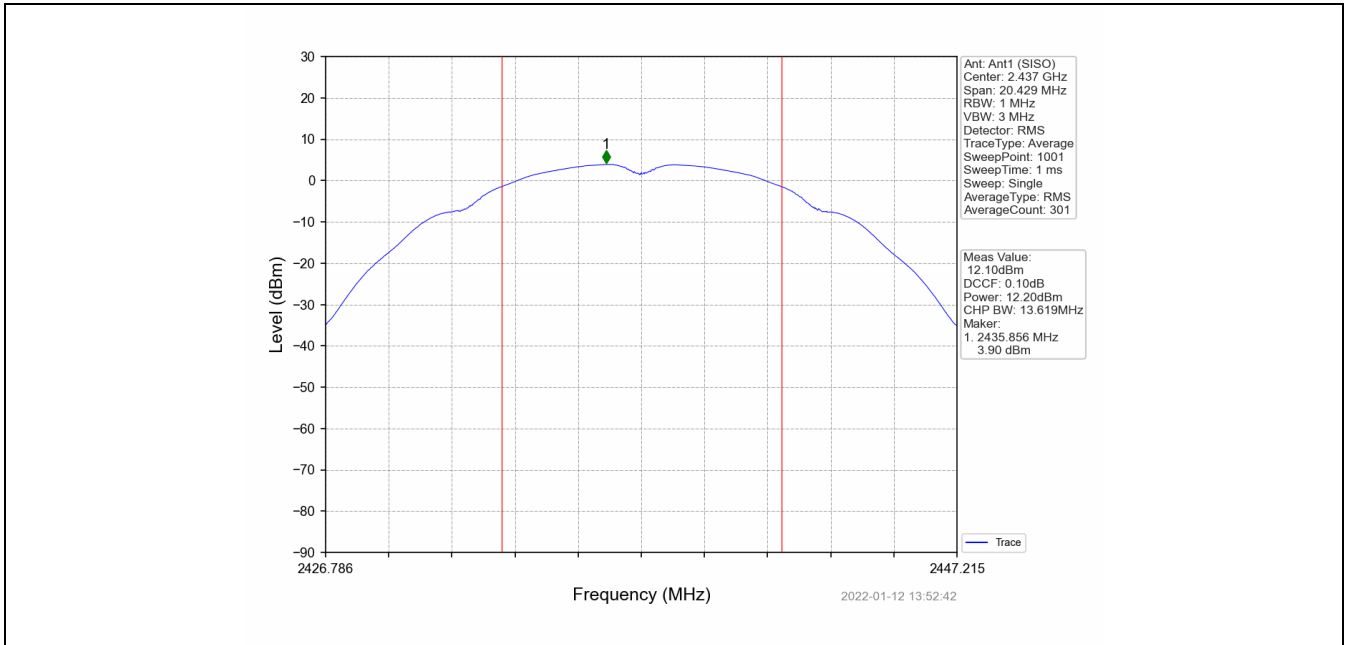
Note1: Antenna Gain: Ant1: -3.52dBi;

3.1.2 Test Graph

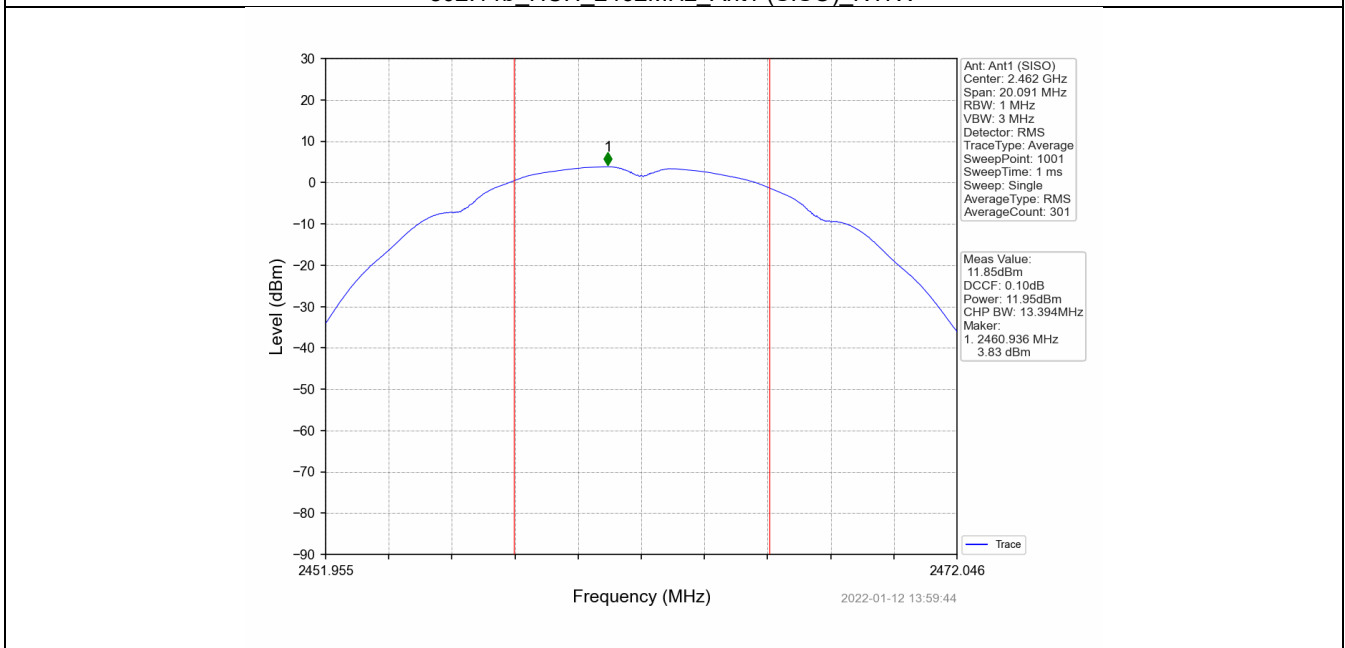


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802.11b HCH 2462MHz Ant1 (SISO) NTNv

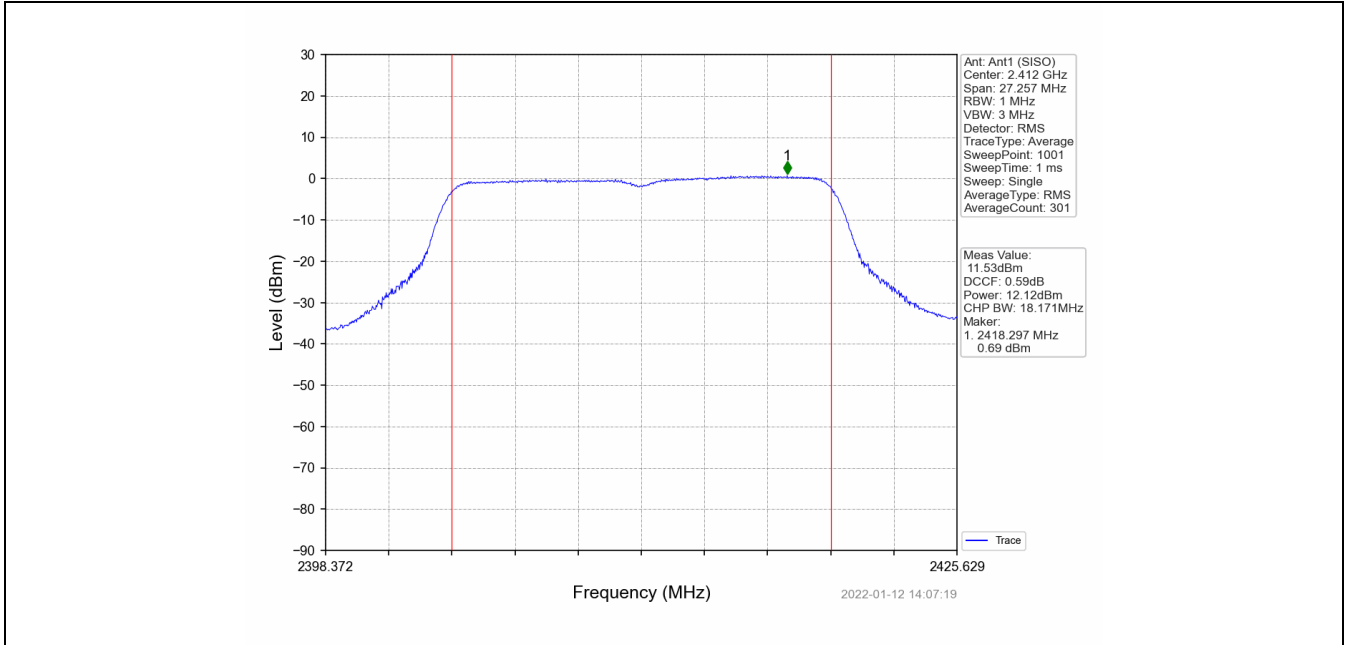


802.11g LCH 2412MHz Ant1 (SISO) NTNv

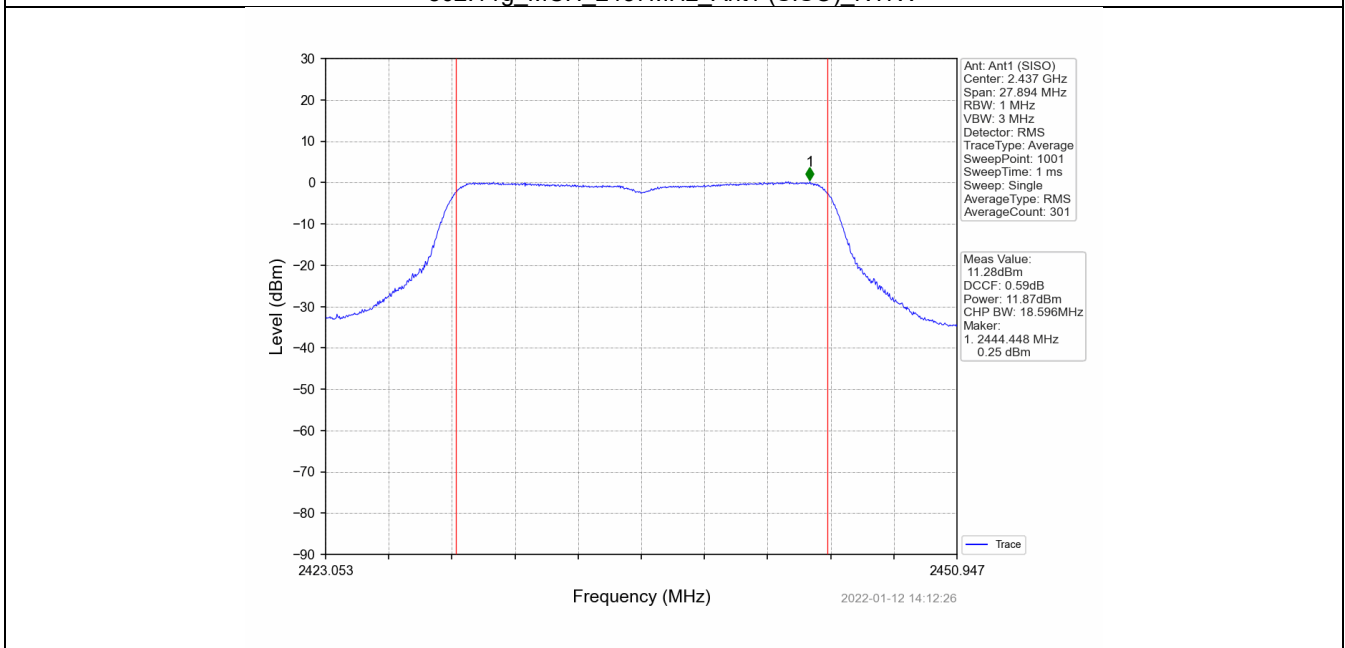


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802.11g_MCH_2437MHz_Ant1 (SISO) NTV

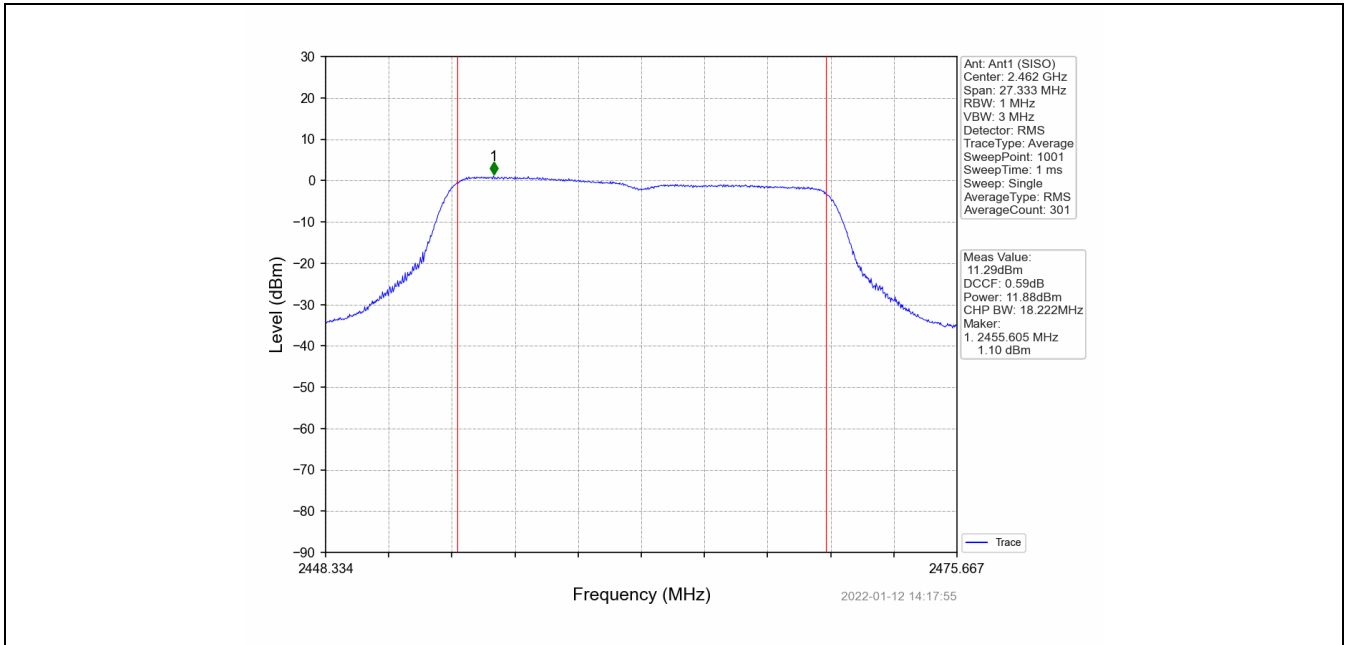


802.11g_HCH_2462MHz_Ant1 (SISO) NTV

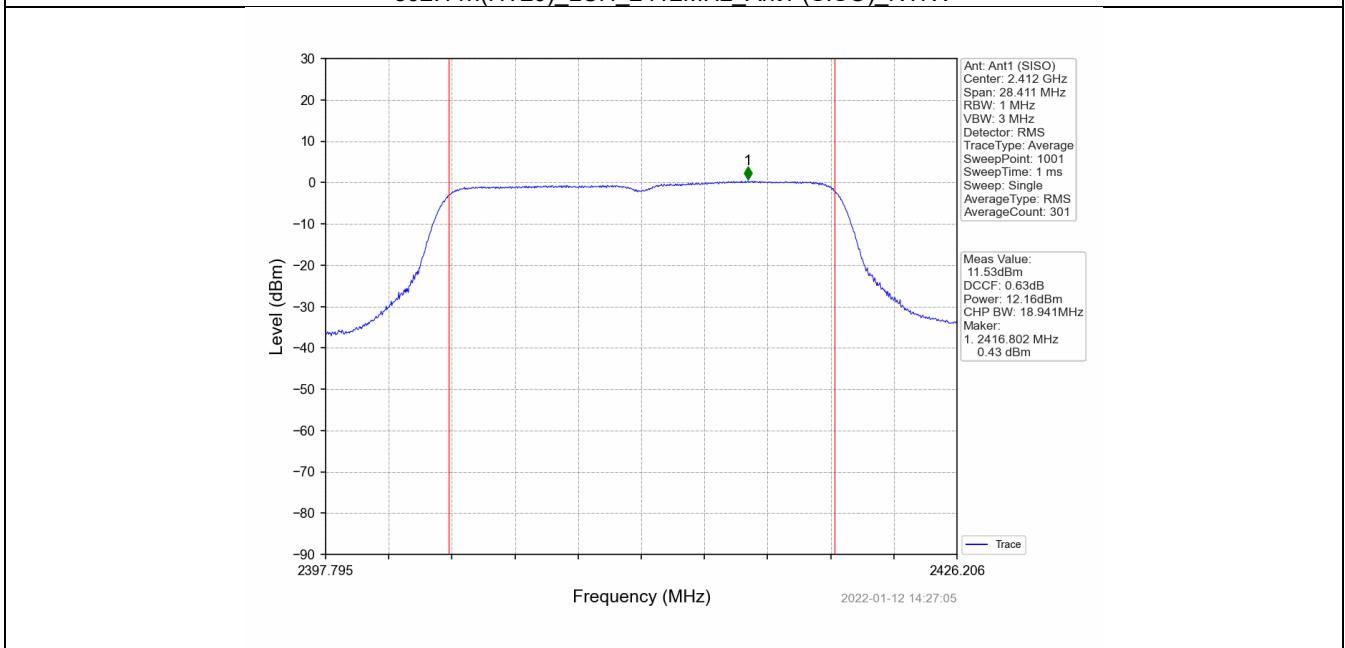


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802.11n(HT20) LCH_2412MHz_Ant1 (SISO) NTNv

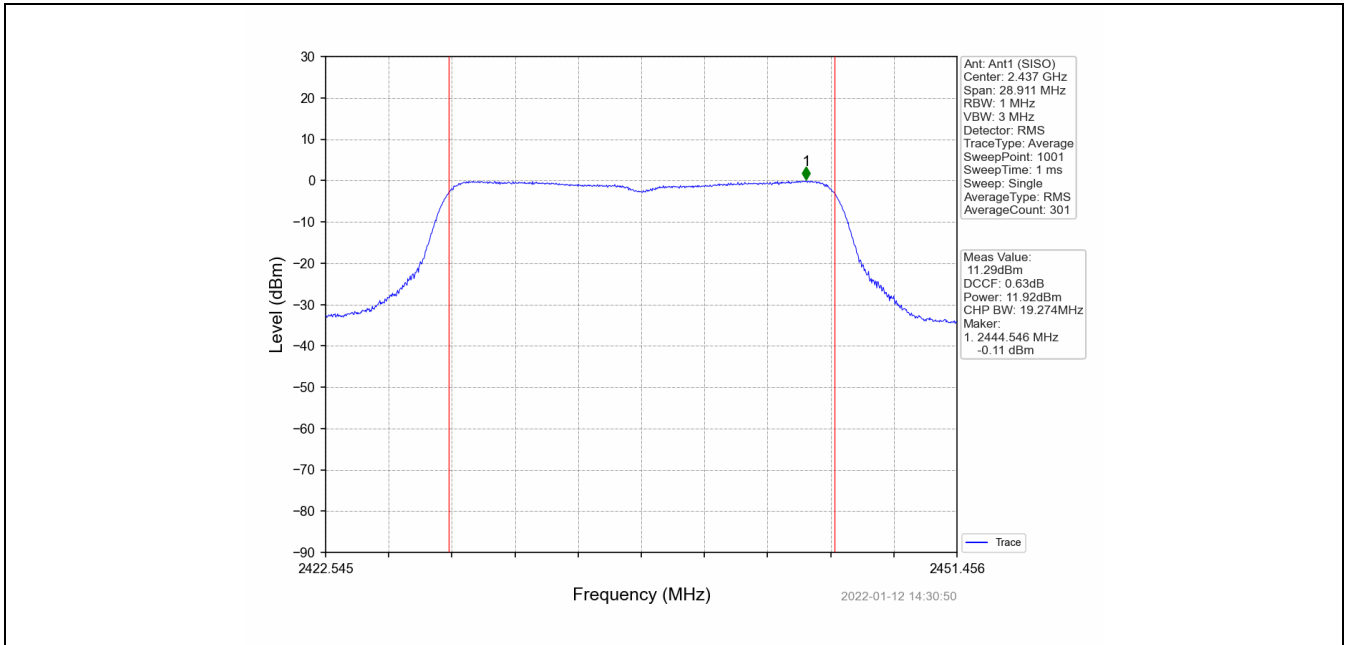


802.11n(HT20) MCH_2437MHz_Ant1 (SISO) NTNv

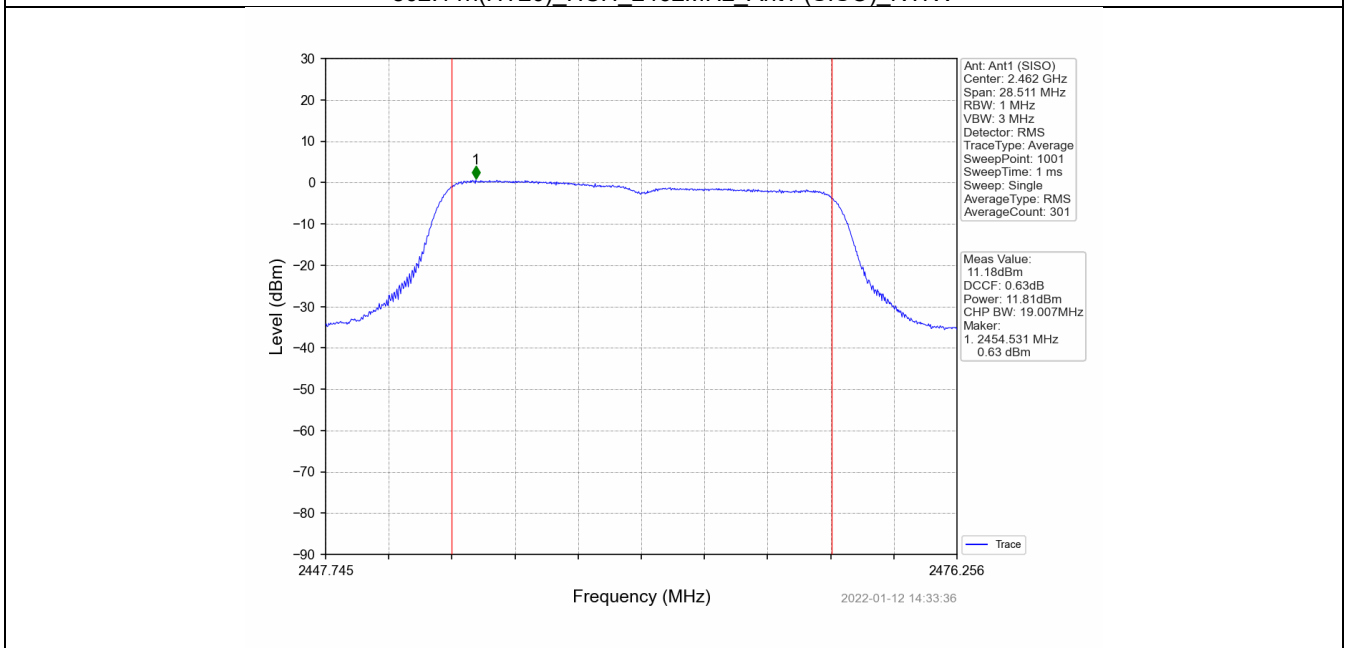


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802.11n(HT20) HCH_2462MHz Ant1 (SISO) NTNv

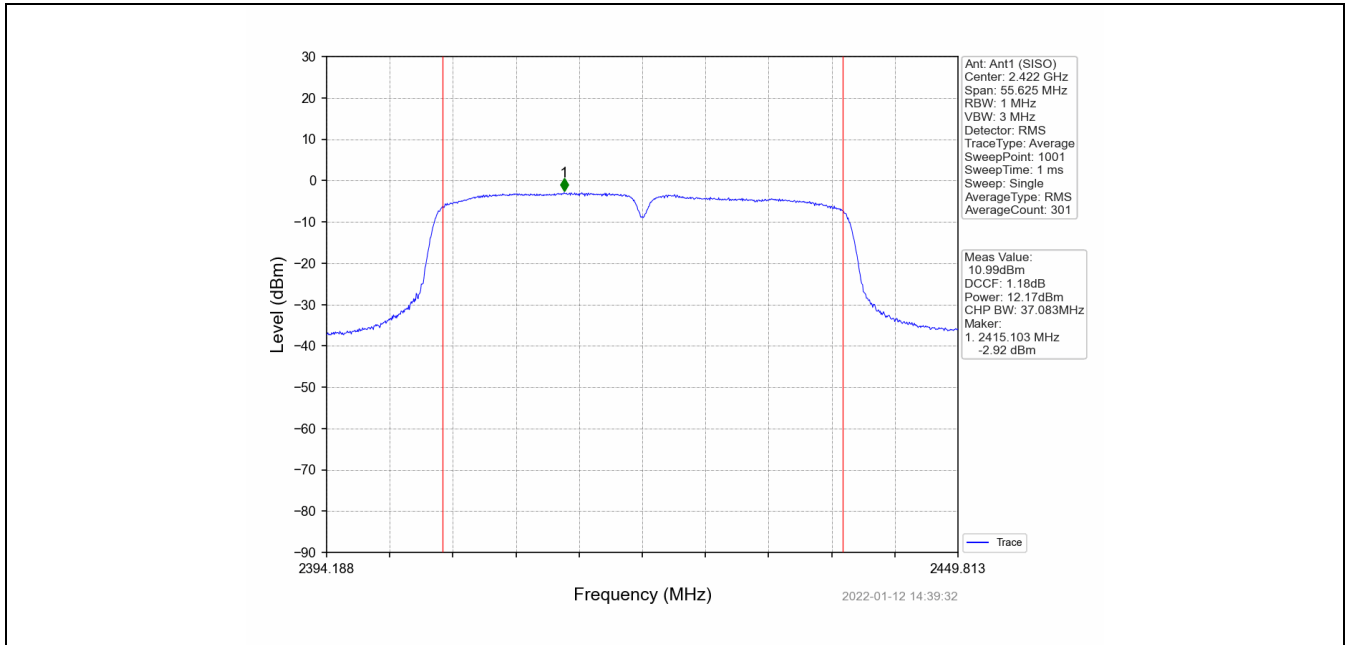


802.11n(HT40) LCH_2422MHz Ant1 (SISO) NTNv

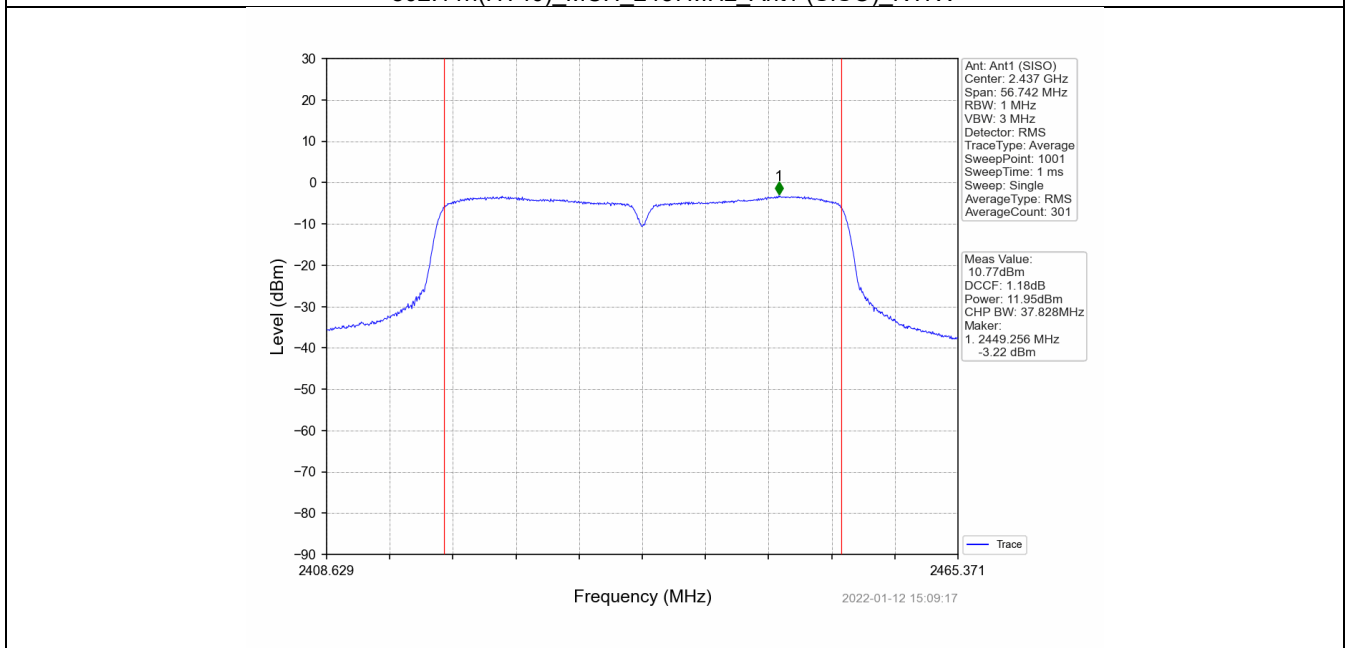


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802.11n(HT40) MCH_2437MHz Ant1 (SISO) NTN

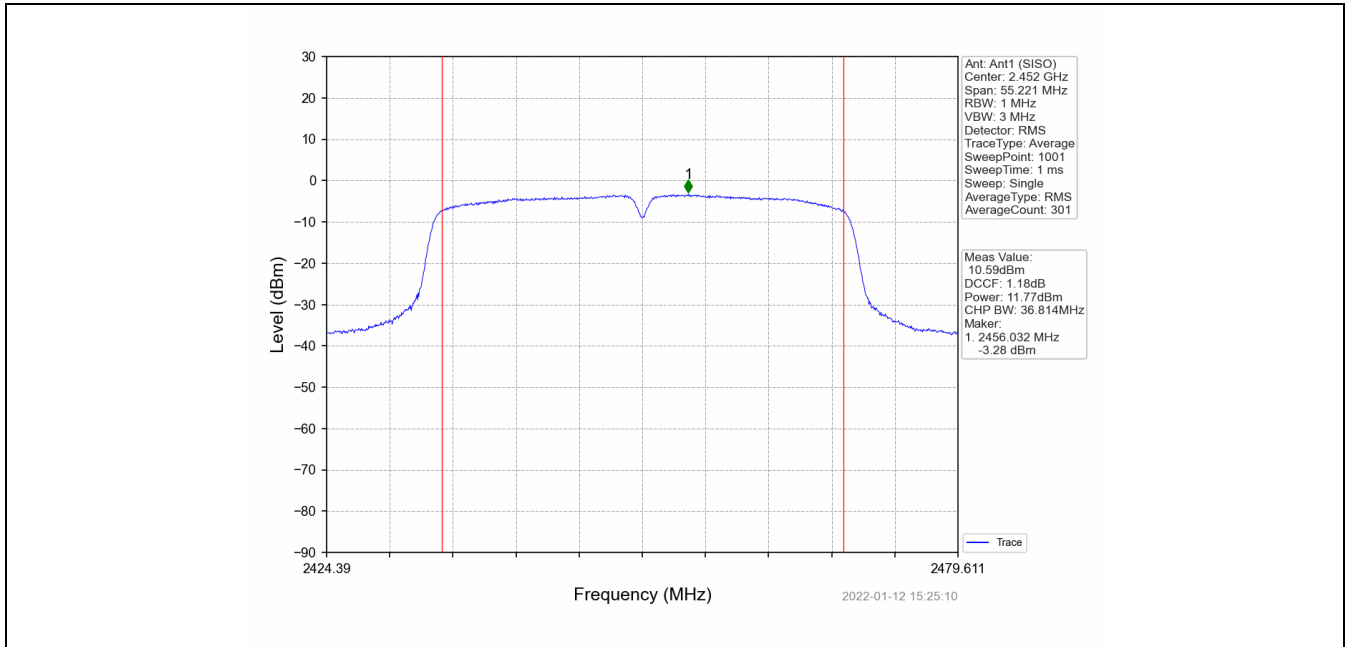


802.11n(HT40) HCH_2452MHz Ant1 (SISO) NTN



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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	-10.57	<=8	Pass
		2437	-10.58	<=8	Pass
		2462	-10.82	<=8	Pass
802.11g	SISO	2412	-12.21	<=8	Pass
		2437	-13.92	<=8	Pass
		2462	-12.71	<=8	Pass
802.11n (HT20)	SISO	2412	-12.70	<=8	Pass
		2437	-13.90	<=8	Pass
		2462	-14.04	<=8	Pass
802.11n (HT40)	SISO	2422	-15.66	<=8	Pass
		2437	-16.47	<=8	Pass
		2452	-16.33	<=8	Pass

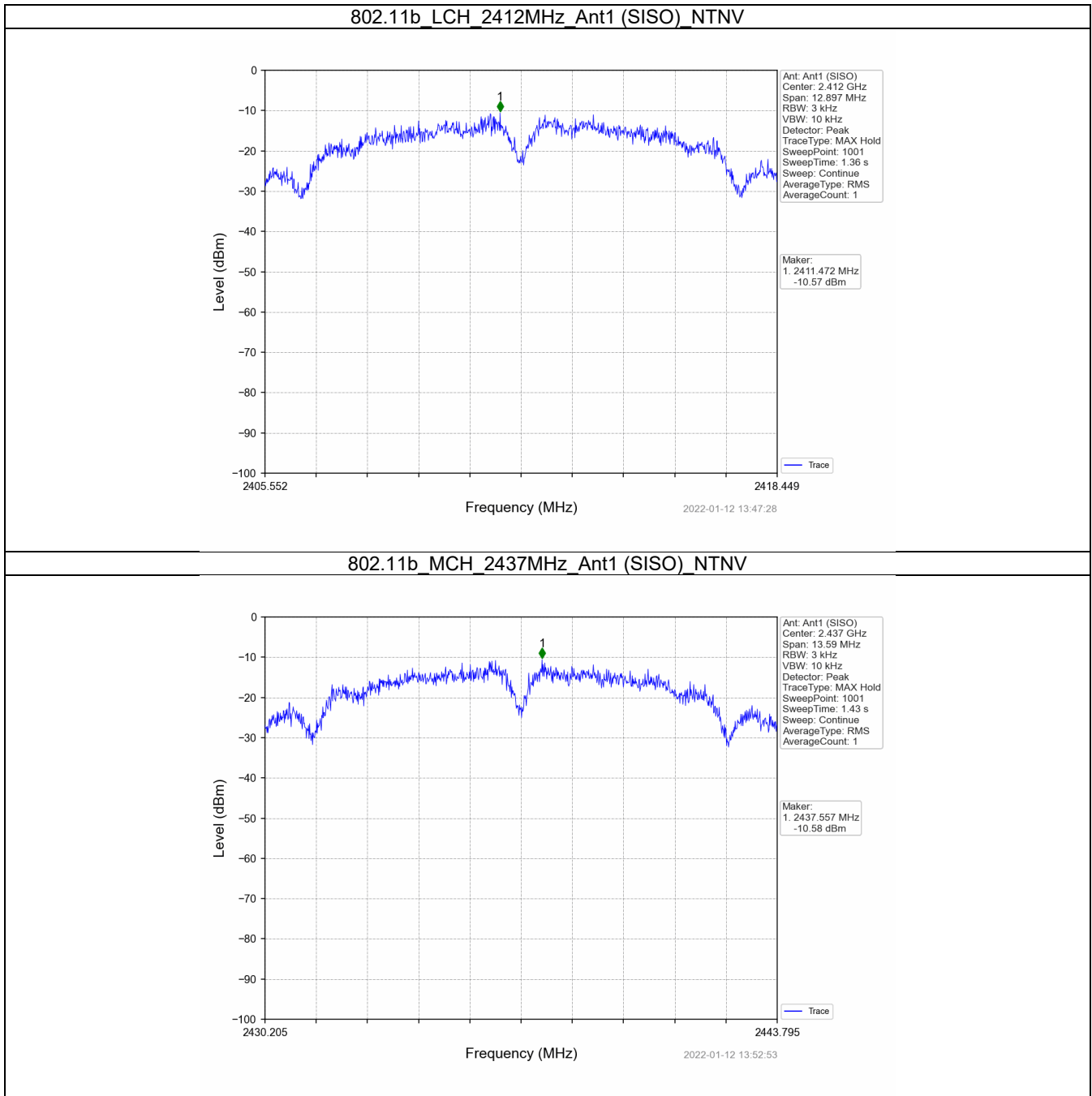
Note1: Antenna Gain: Ant1: -3.52dBi;



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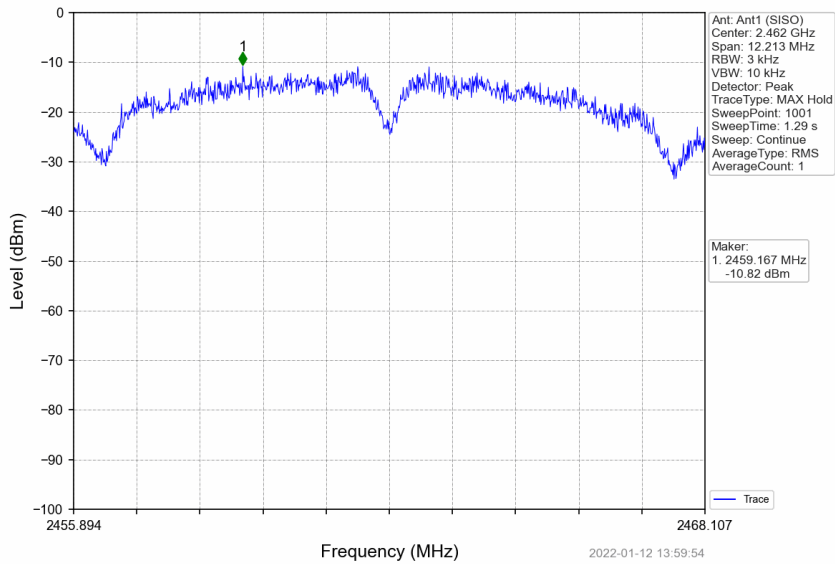
4.1.2 Test Graph



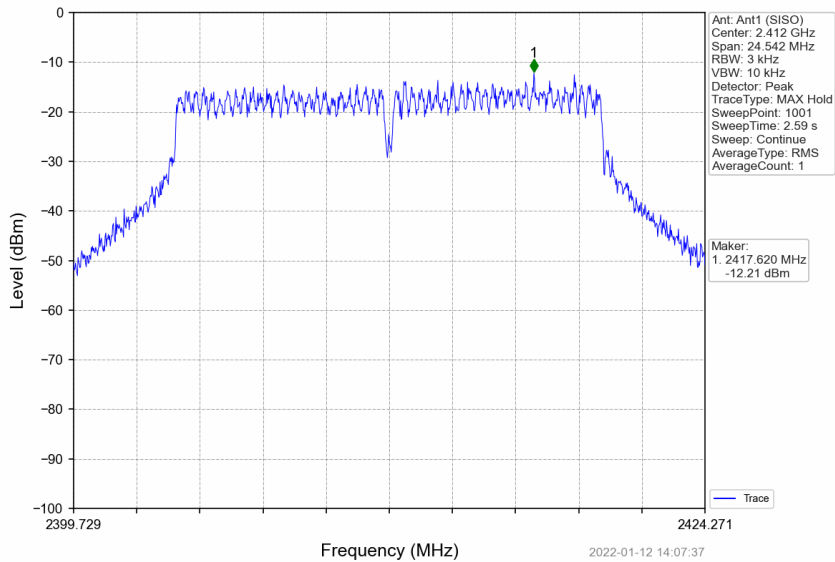
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802.11b HCH 2462MHz Ant1 (SISO) NTN



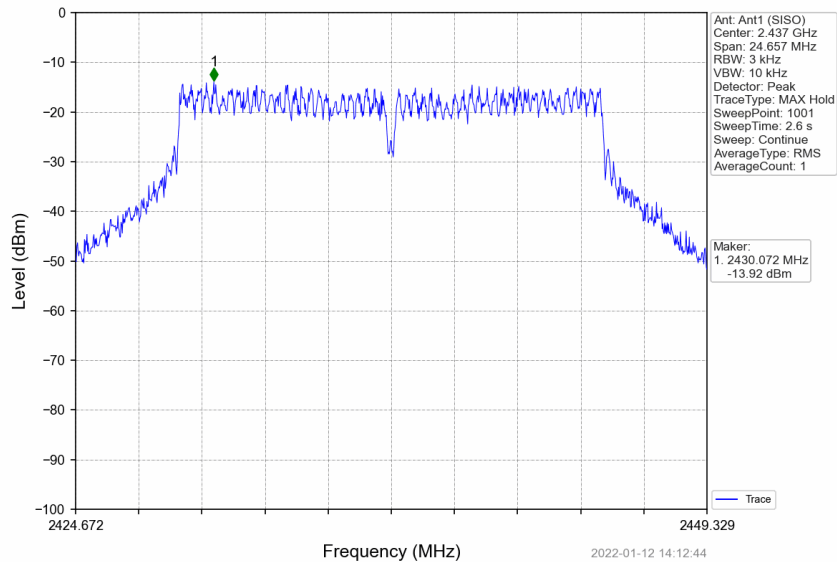
802.11g LCH 2412MHz Ant1 (SISO) NTN



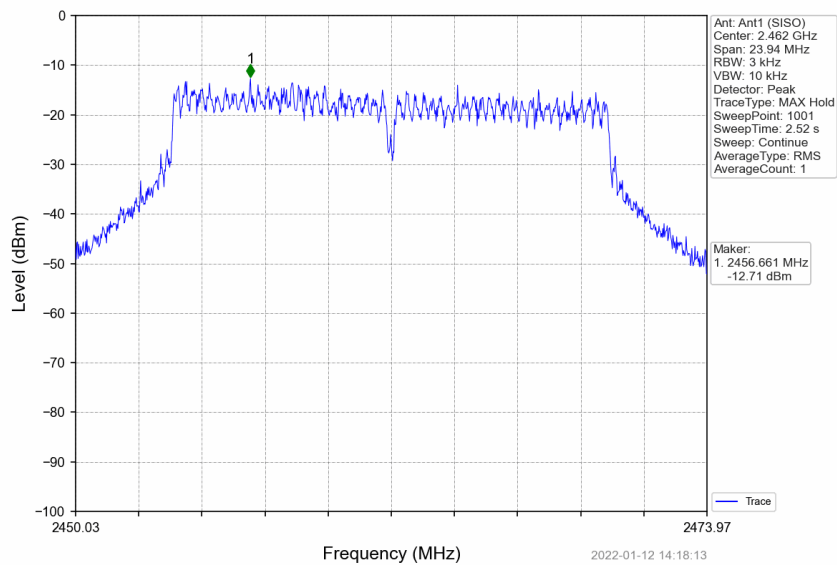
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802.11g MCH 2437MHz Ant1 (SISO) NTN



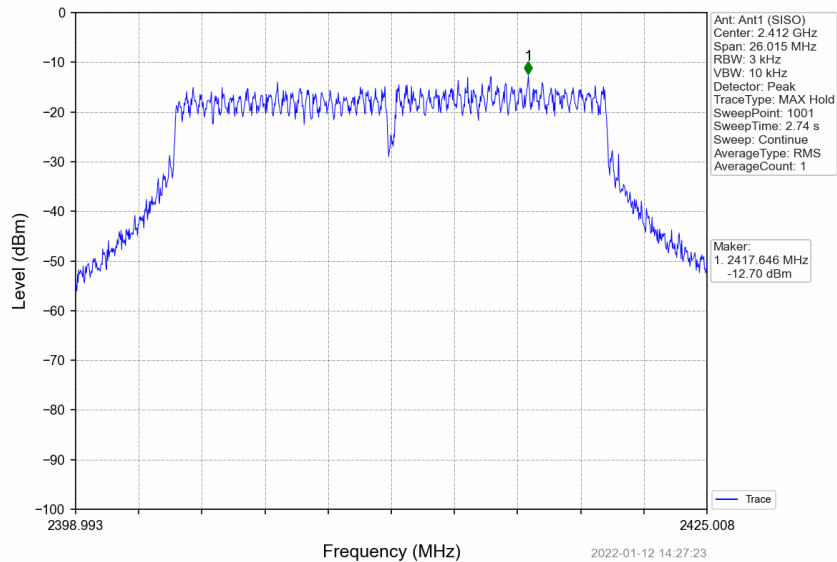
802.11g HCH 2462MHz Ant1 (SISO) NTN



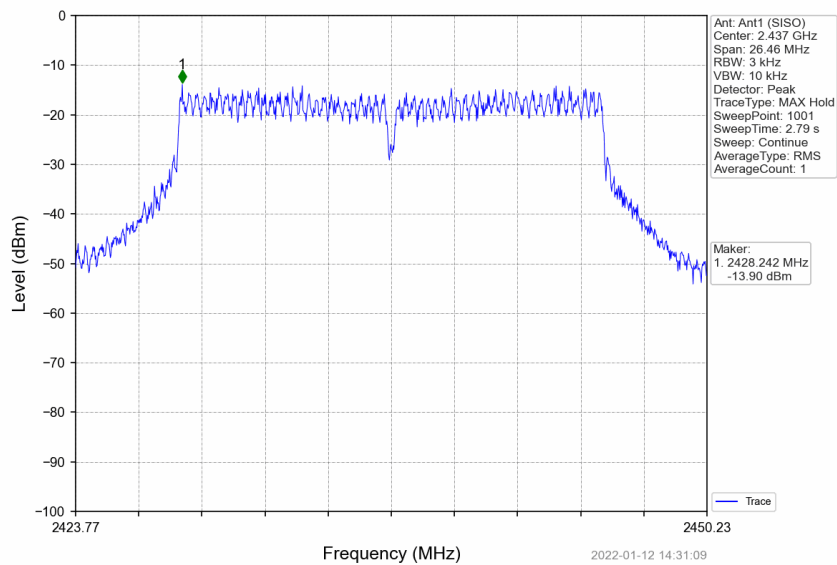
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



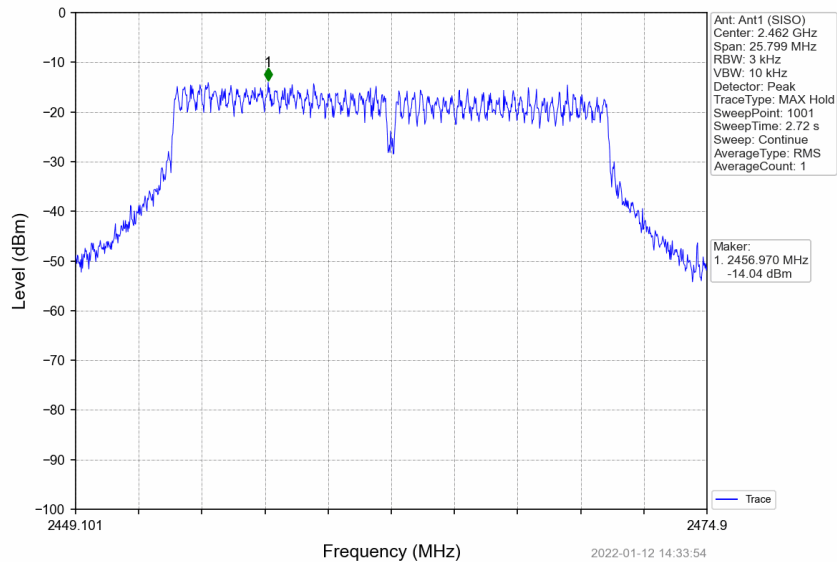
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



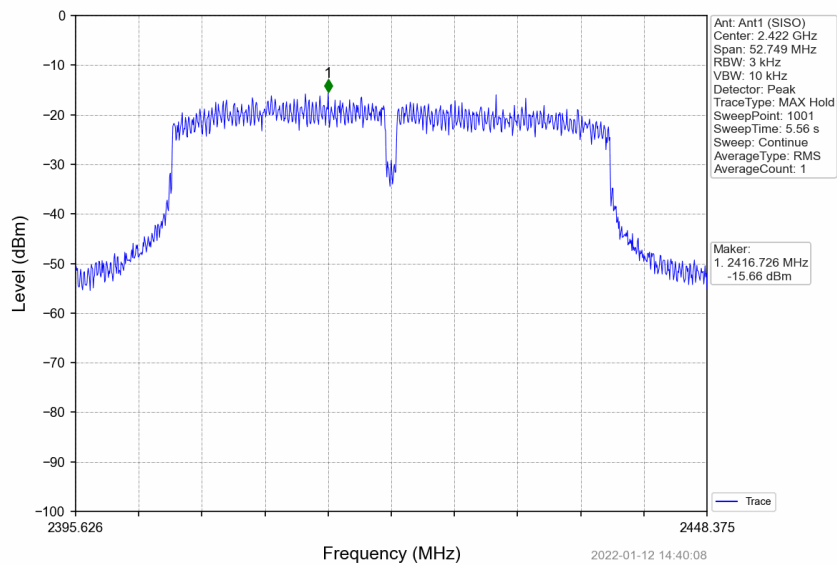
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



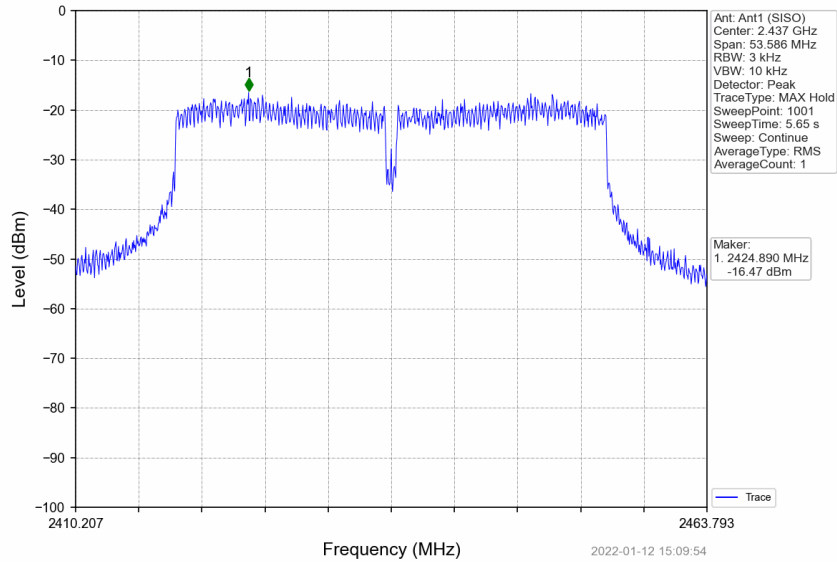
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



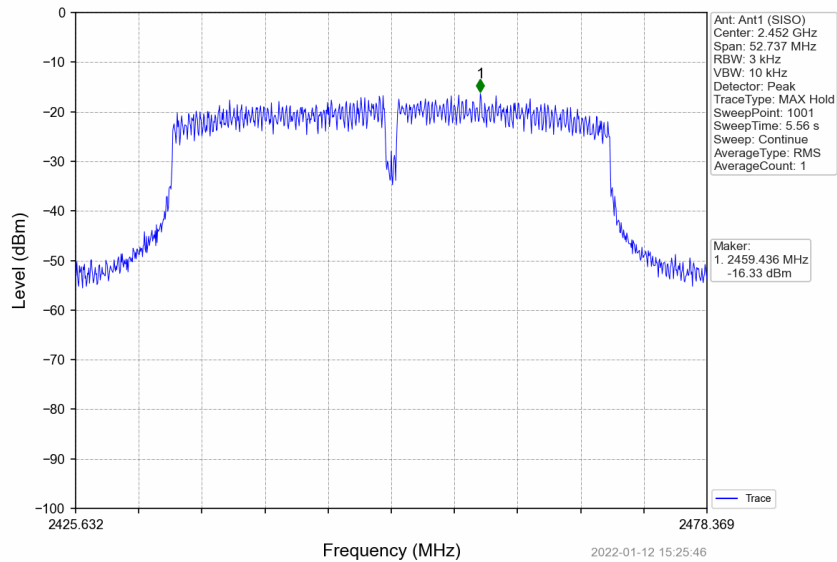
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802.11n(HT40) MCH_2437MHz Ant1 (SISO) NTV



802.11n(HT40) HCH_2452MHz Ant1 (SISO) NTV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

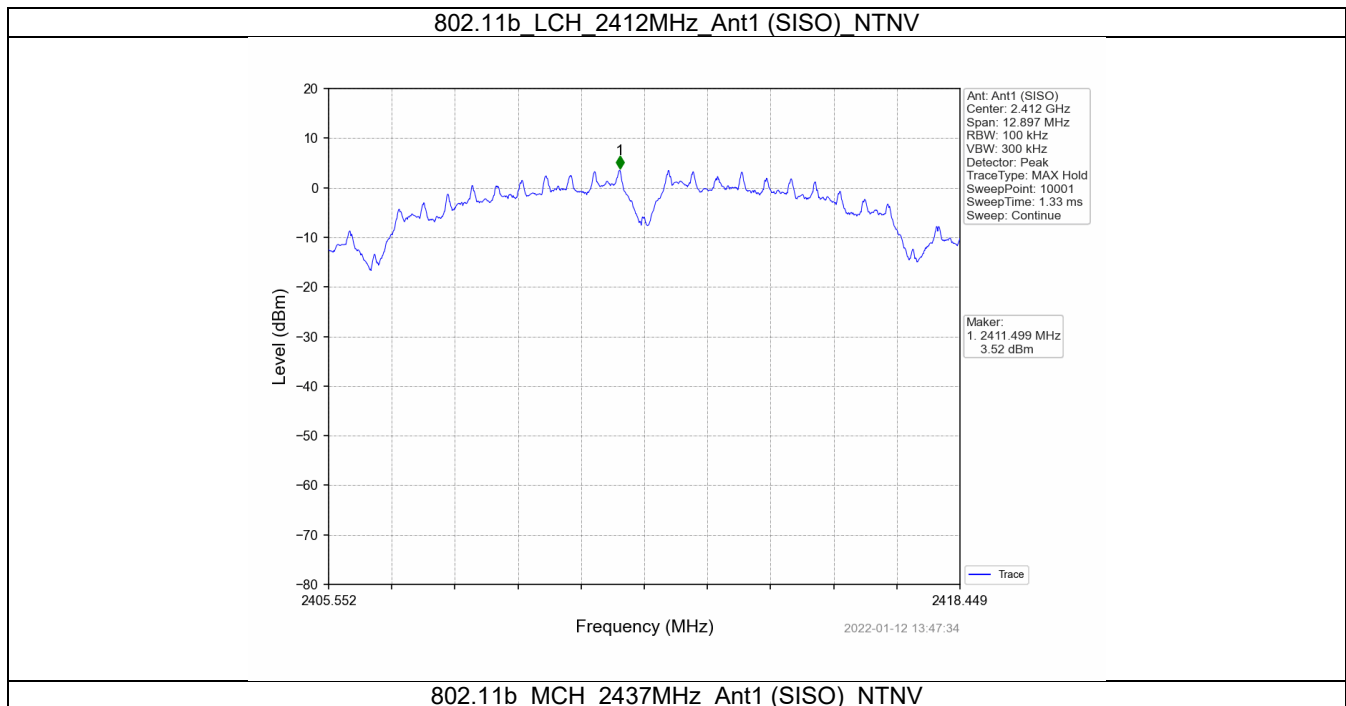
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	3.52
		2437	1	3.71
		2462	1	3.85
802.11g	SISO	2412	1	1.16
		2437	1	0.91
		2462	1	1.75
802.11n (HT20)	SISO	2412	1	1.54
		2437	1	0.88
		2462	1	1.69
802.11n (HT40)	SISO	2422	1	-1.18
		2437	1	-1.44
		2452	1	-1.33

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.

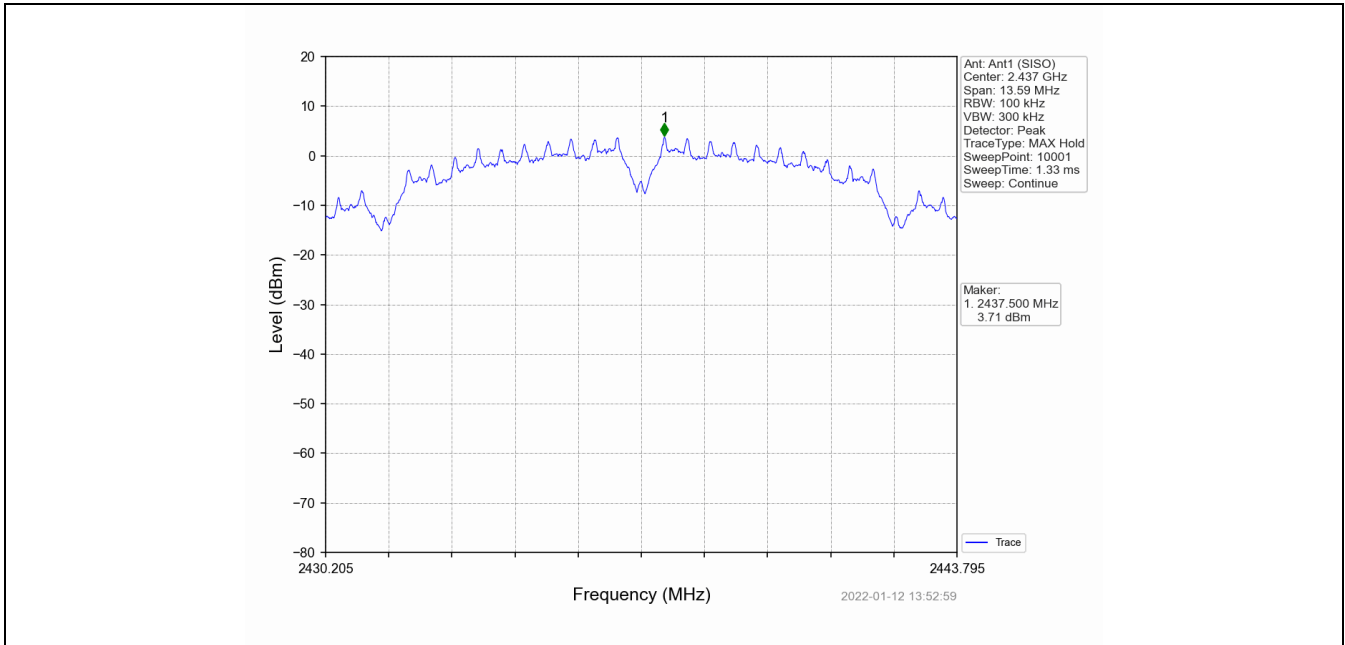
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

5.1.2 Test Graph

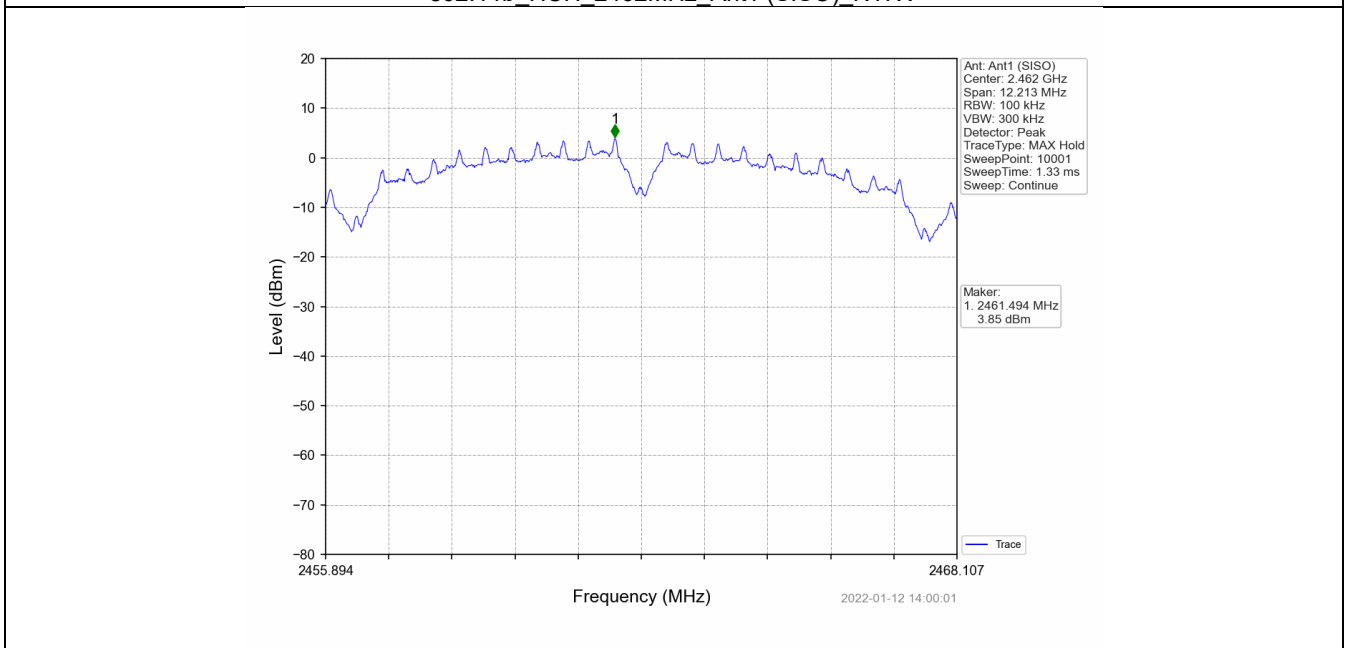


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802.11b_HCH_2462MHz_Ant1 (SISO) NTNv

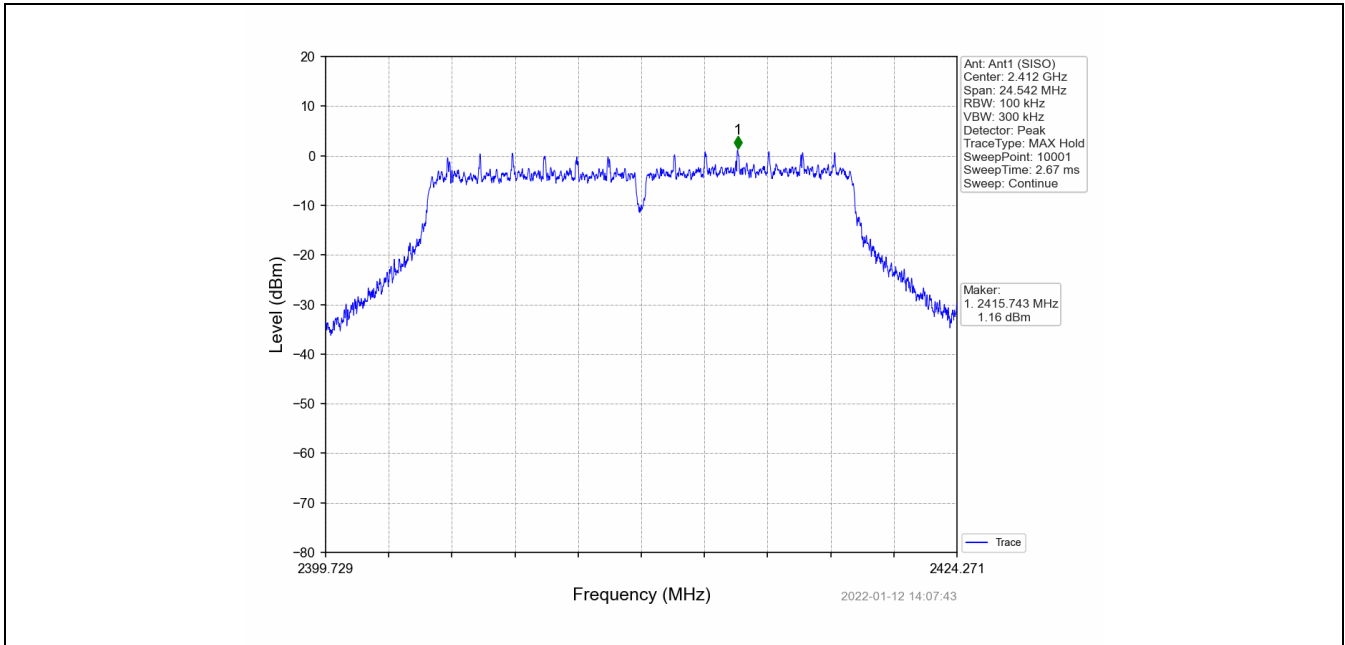


802.11g_LCH_2412MHz_Ant1 (SISO) NTNv

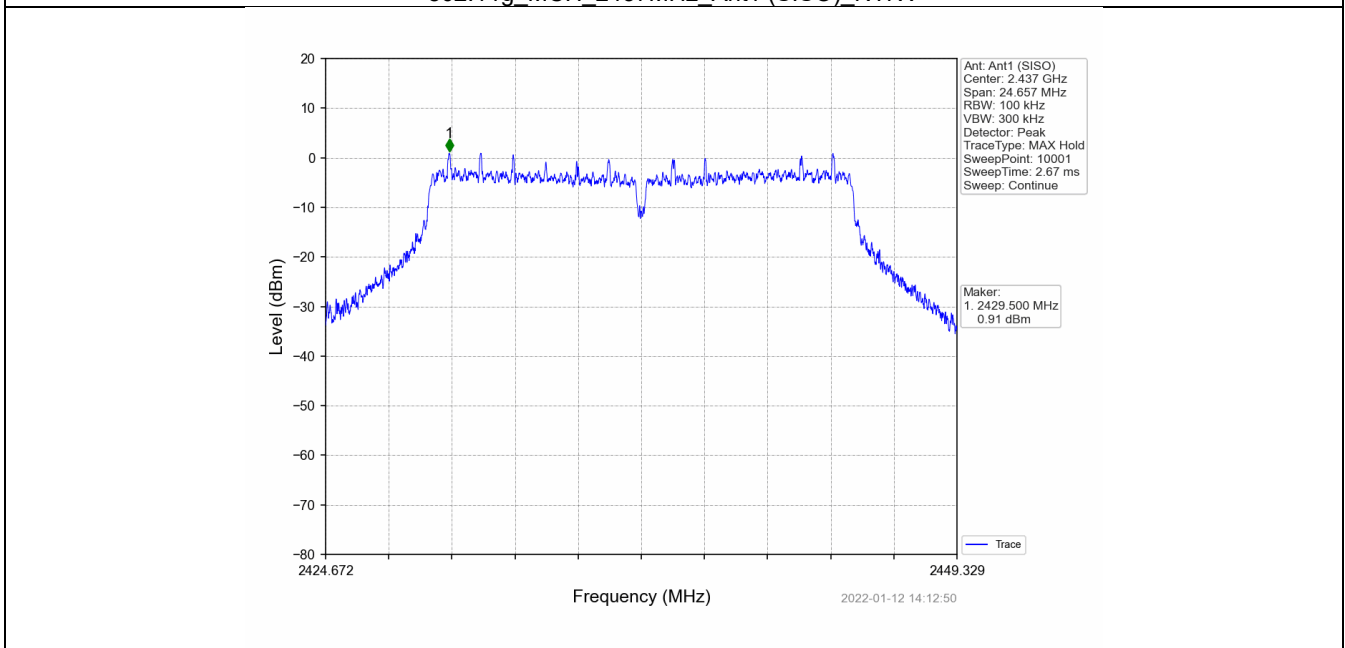


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802.11g_MCH_2437MHz_Ant1 (SISO) NTV

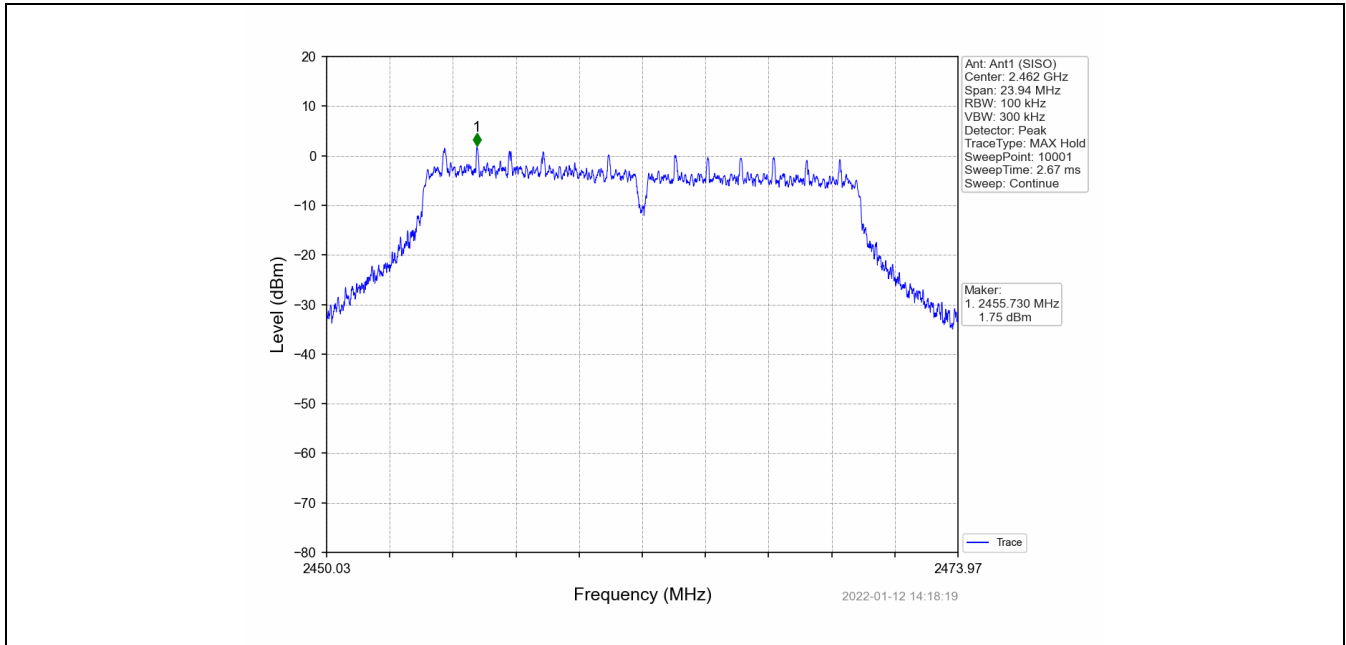


802.11g_HCH_2462MHz_Ant1 (SISO) NTV

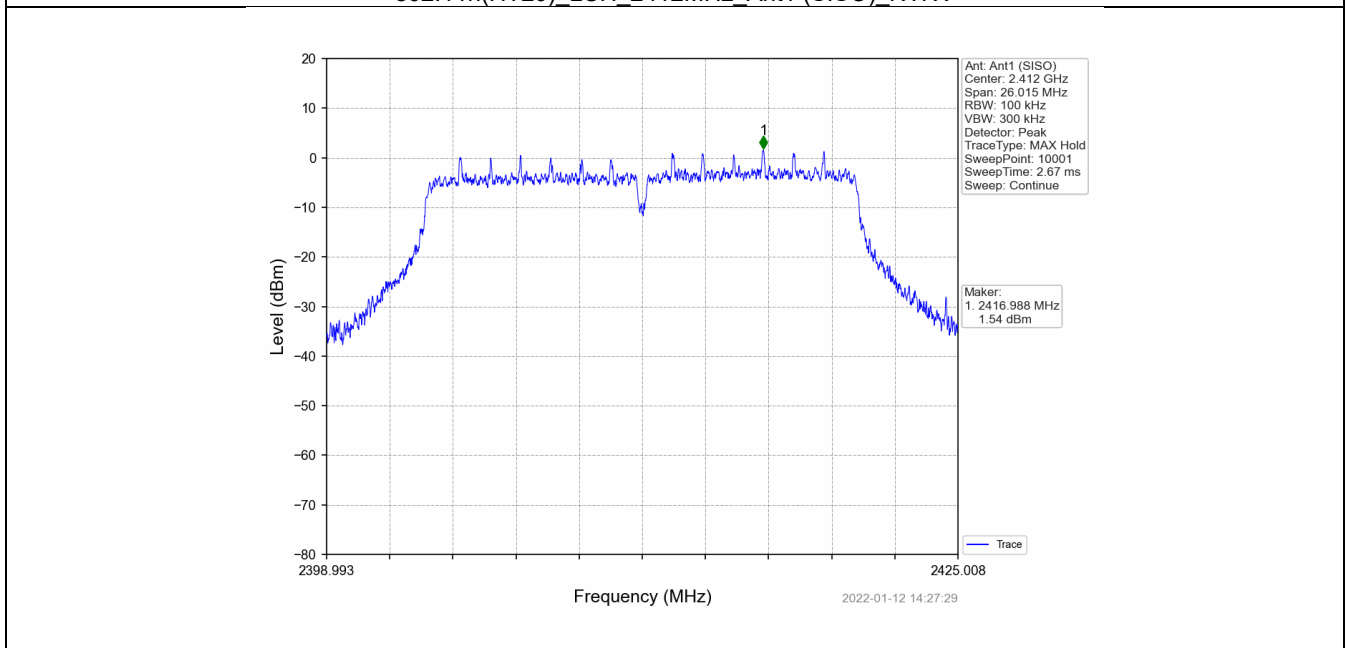


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802.11n(HT20) LCH_2412MHz_Ant1 (SISO)_NTNV

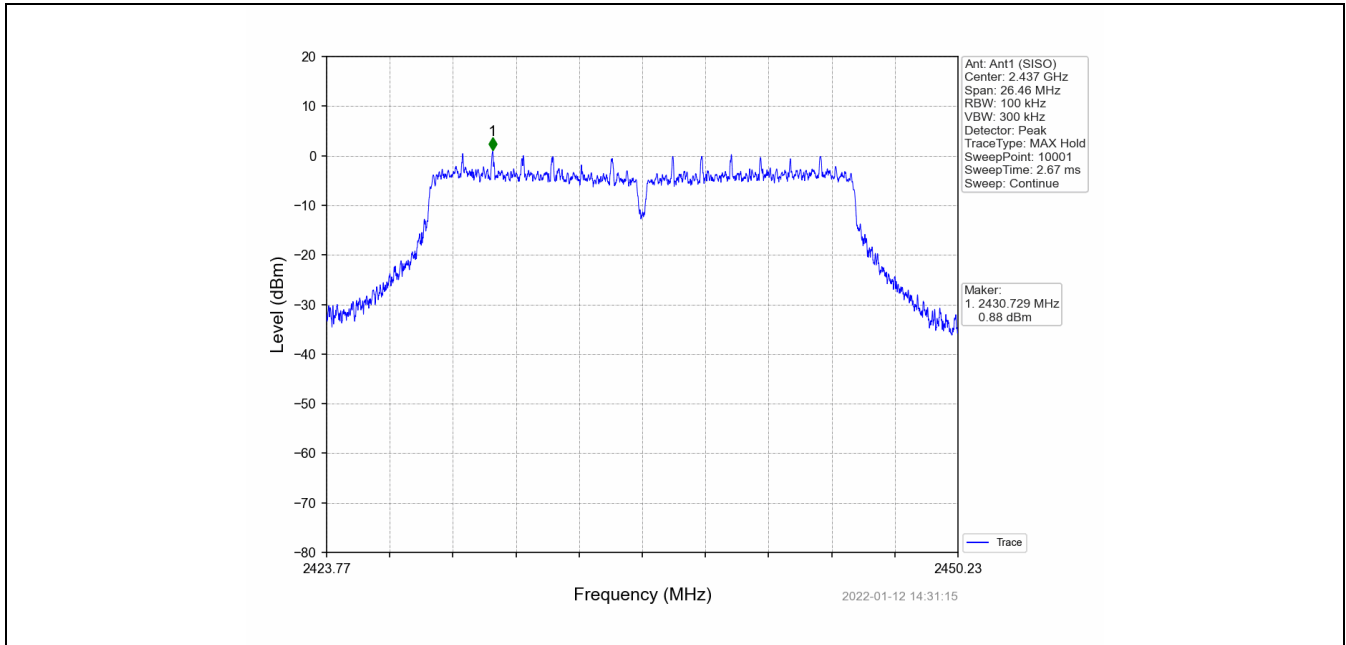


802.11n(HT20) MCH_2437MHz_Ant1 (SISO)_NTNV

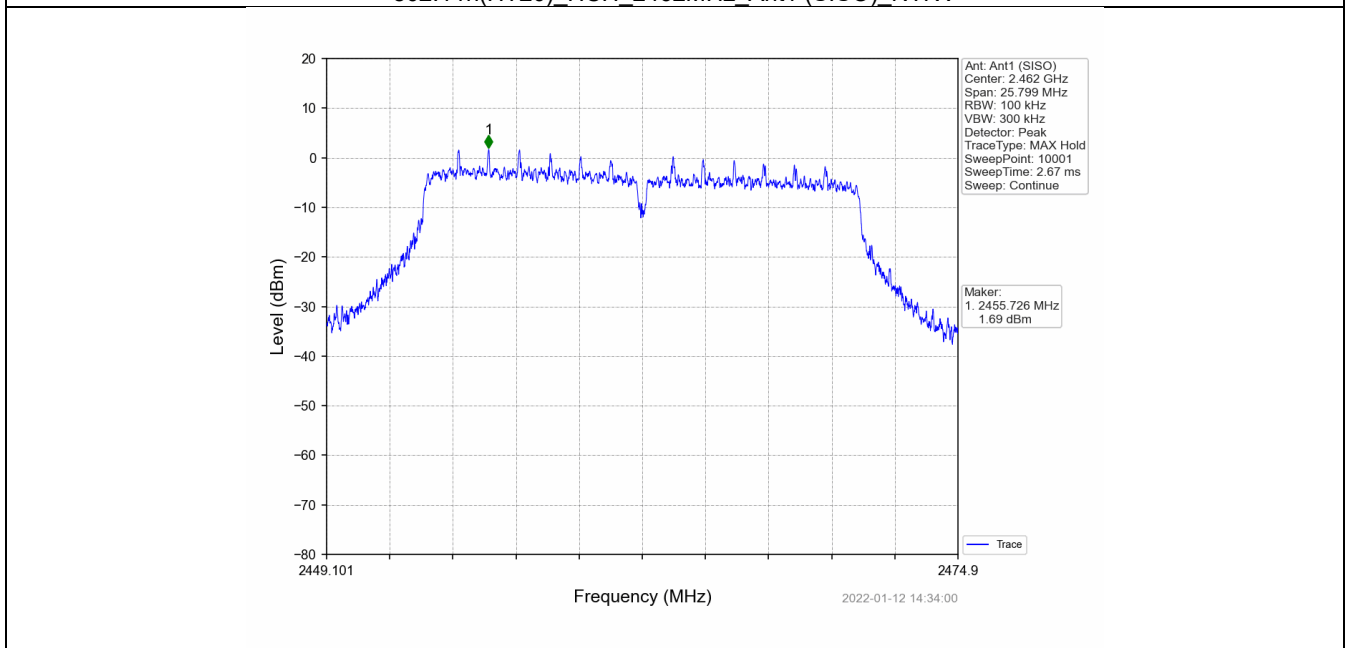


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802.11n(HT20) HCH_2462MHz_Ant1 (SISO)_NTNV

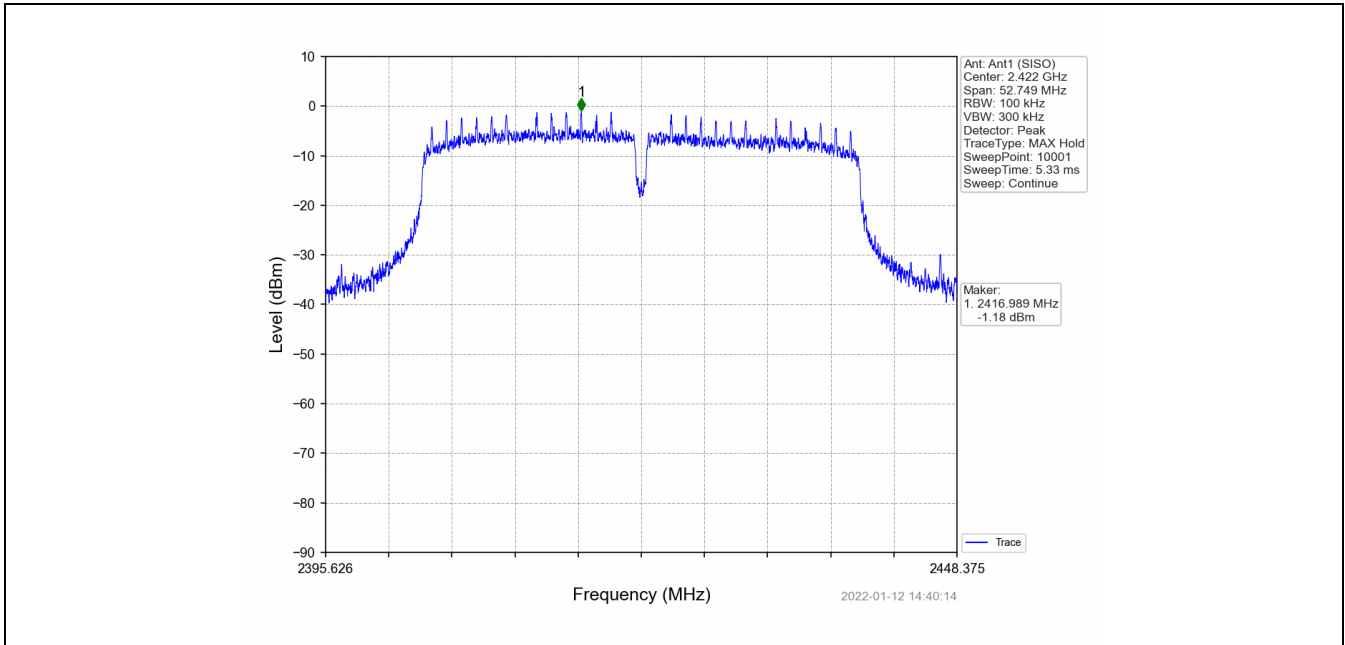


802.11n(HT40) LCH_2422MHz_Ant1 (SISO)_NTNV

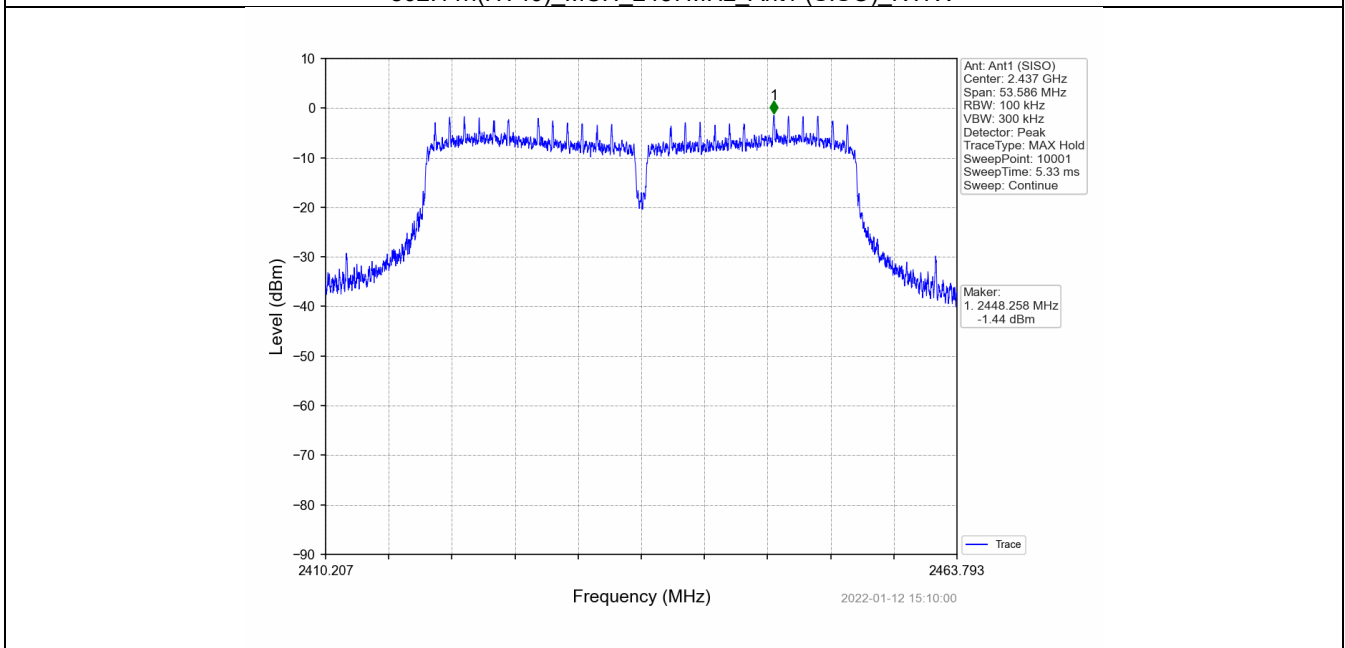


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802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN

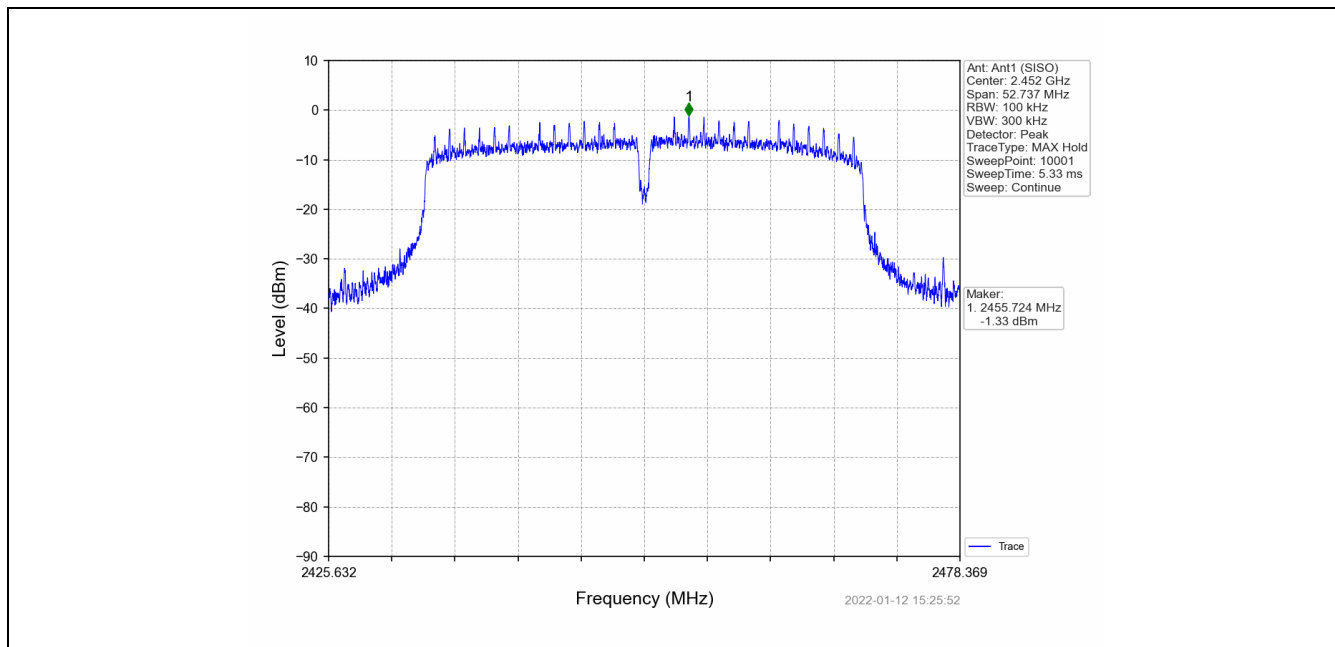


802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



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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	3.85	-26.15	Pass
		2437	1	3.85	-26.15	Pass
		2462	1	3.85	-26.15	Pass
802.11g	SISO	2412	1	1.75	-28.25	Pass
		2437	1	1.75	-28.25	Pass
		2462	1	1.75	-28.25	Pass
802.11n (HT20)	SISO	2412	1	1.69	-28.31	Pass
		2437	1	1.69	-28.31	Pass
		2462	1	1.69	-28.31	Pass
802.11n (HT40)	SISO	2422	1	-1.18	-31.18	Pass
		2437	1	-1.18	-31.18	Pass
		2452	1	-1.18	-31.18	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.

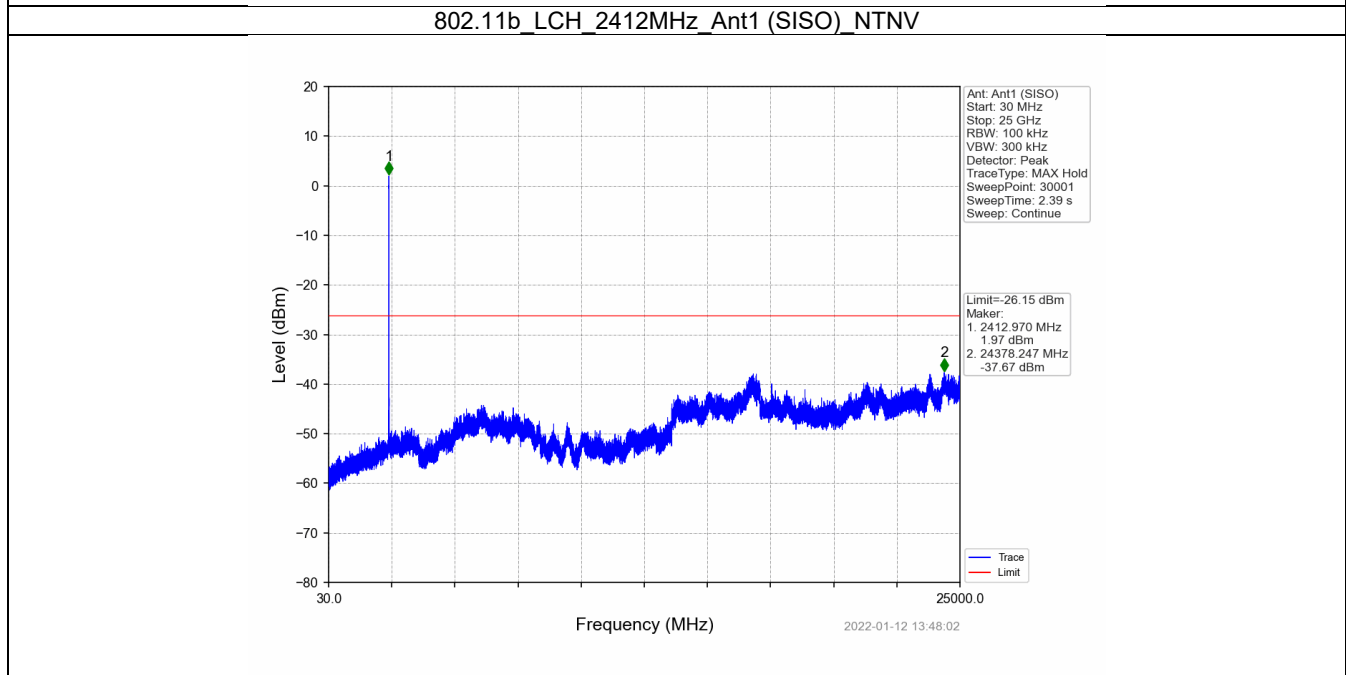
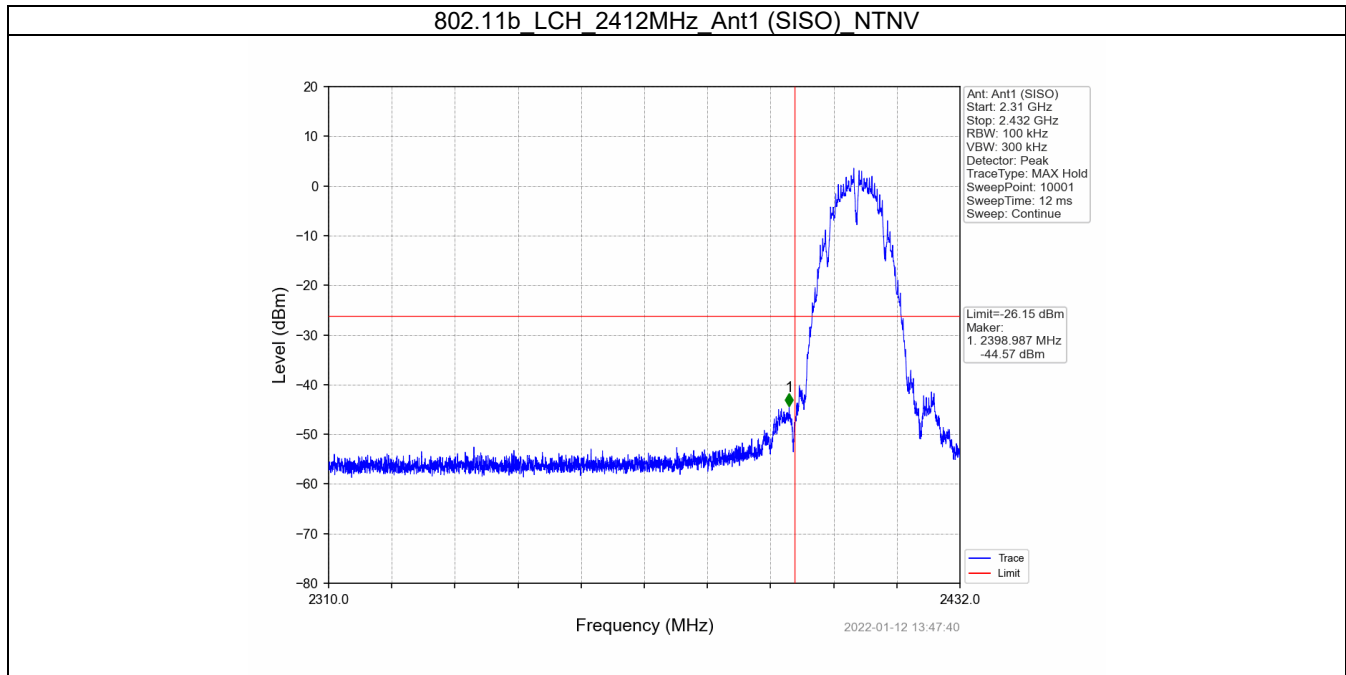
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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5.2.2 Test Graph

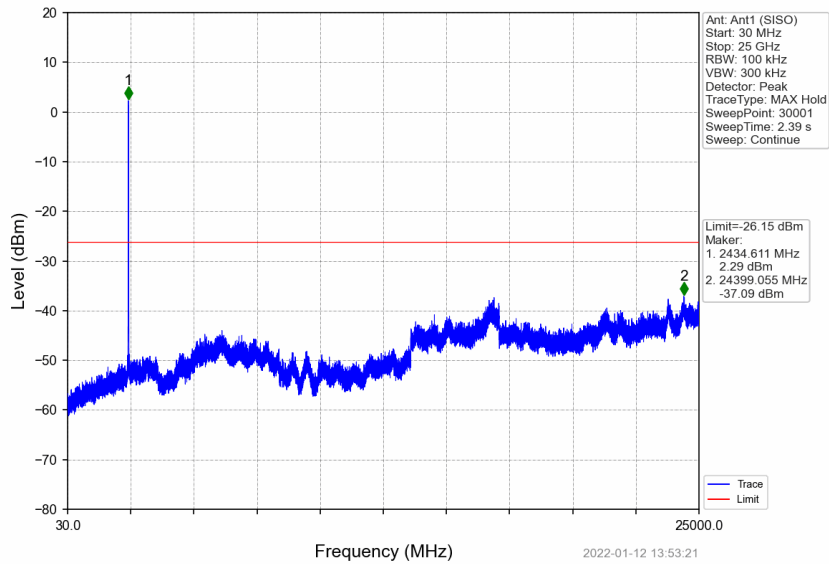


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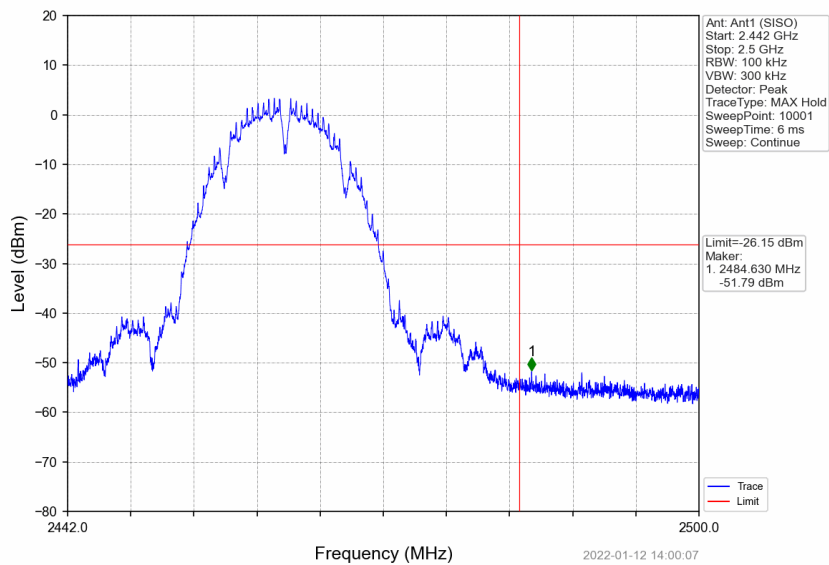
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802.11b MCH 2437MHz Ant1 (SISO) NTVN



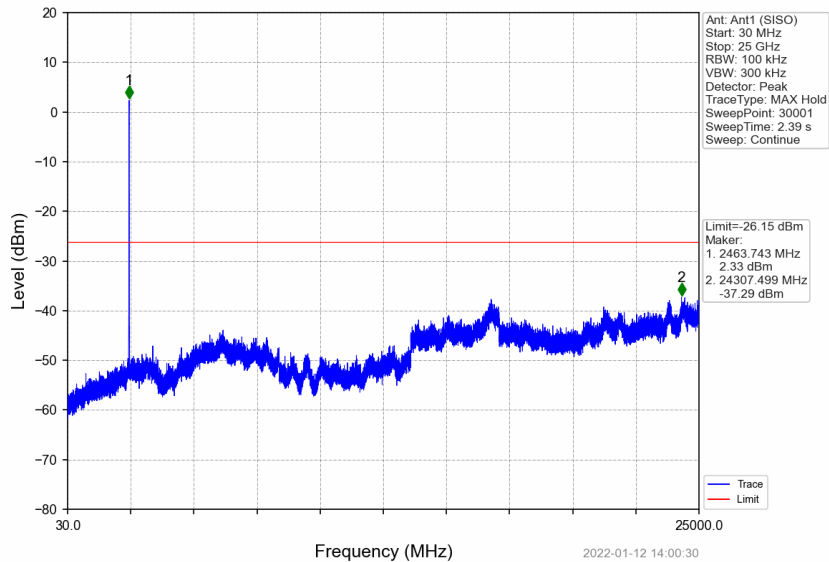
802.11b_HCH 2462MHz Ant1 (SISO) NTVN



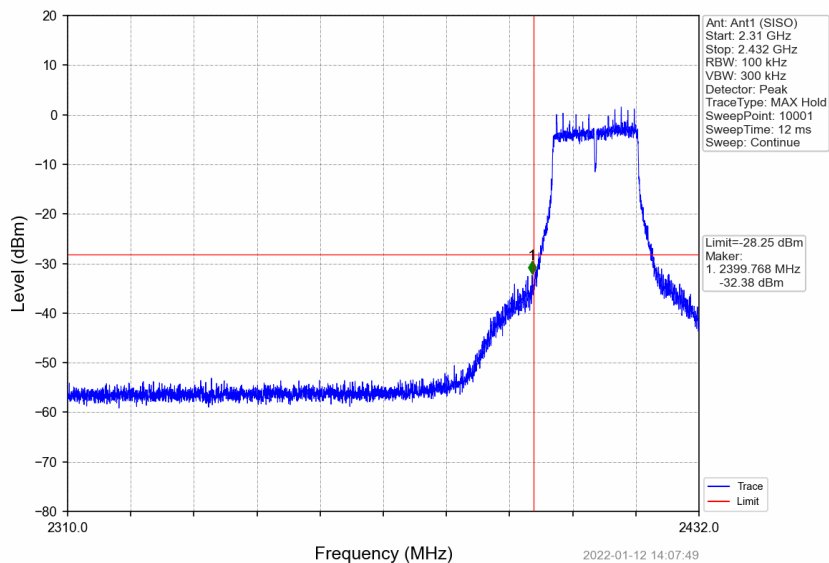
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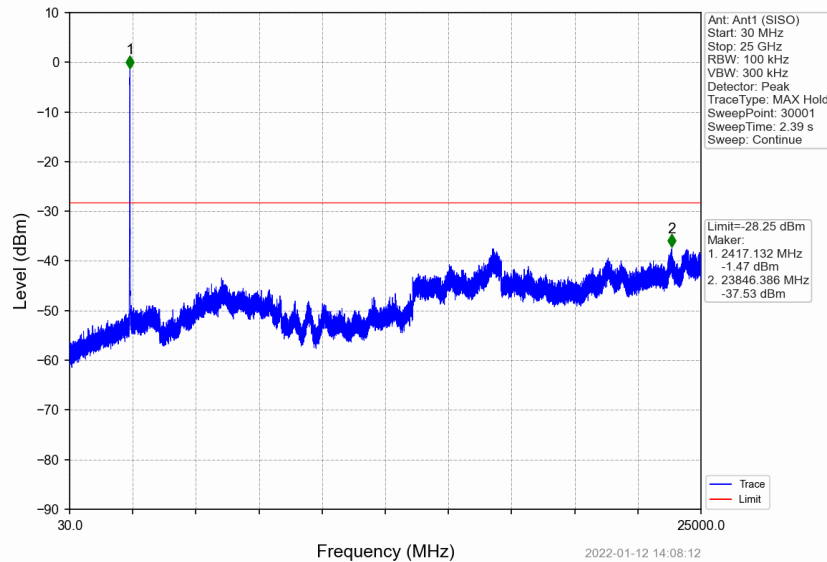
802.11g_LCH 2412MHz Ant1 (SISO) NTV



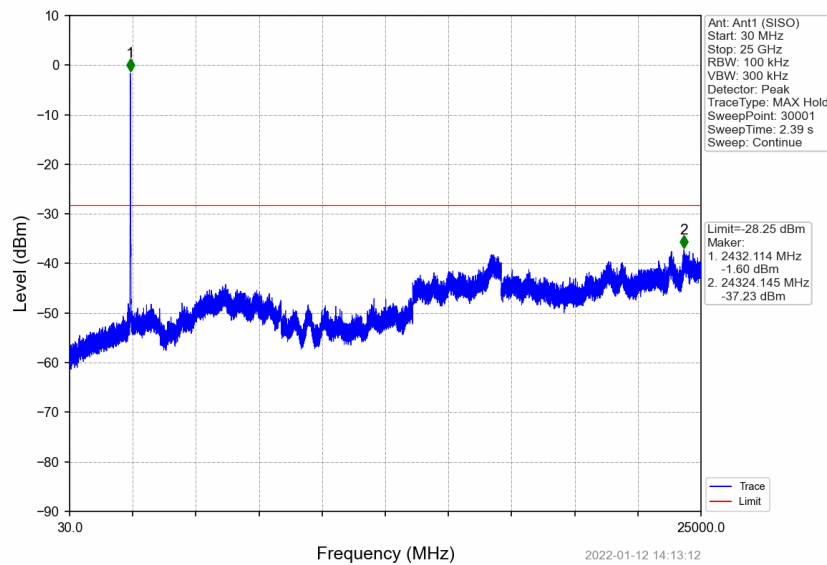
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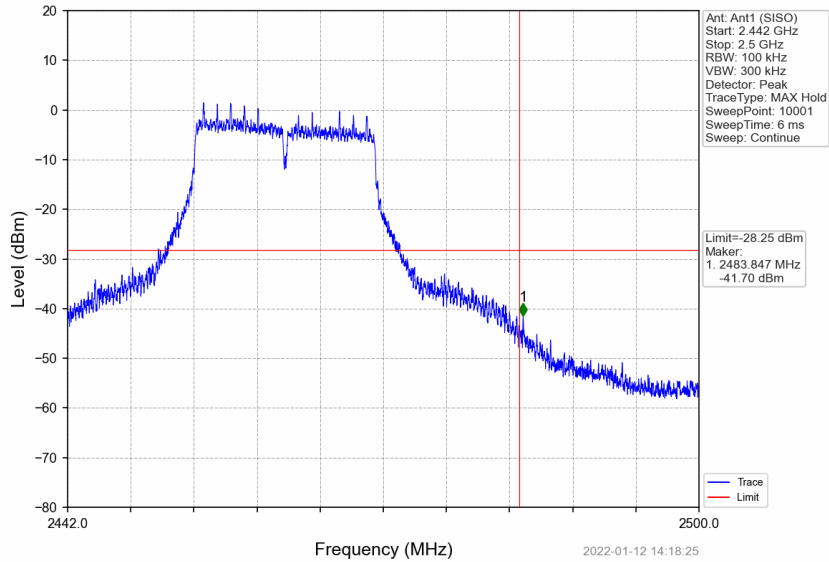
802.11g_MCH_2437MHz_Ant1 (SISO) NTN



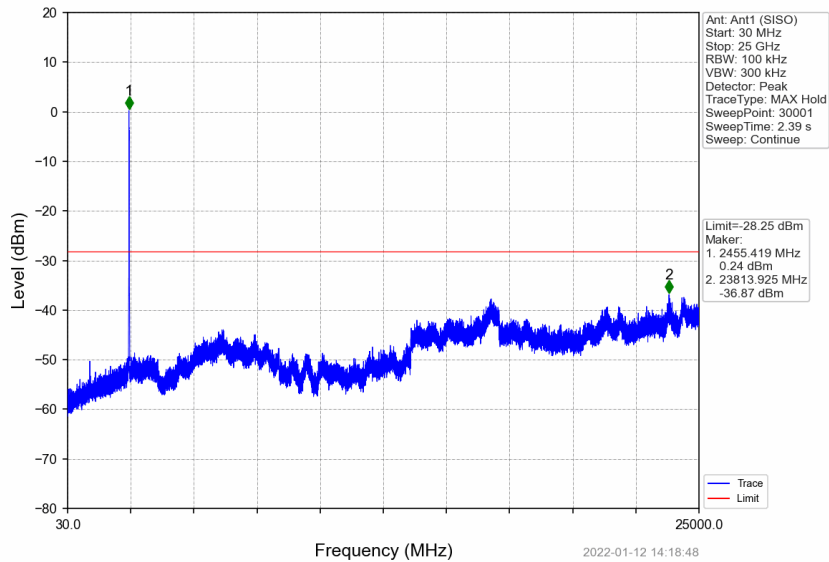
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802.11g HCH 2462MHz Ant1 (SISO) NTN



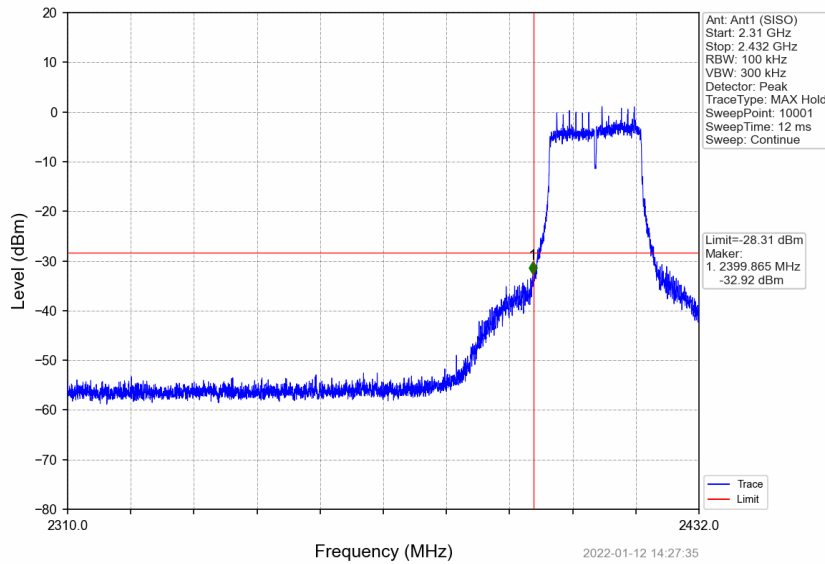
802.11g HCH 2462MHz Ant1 (SISO) NTN



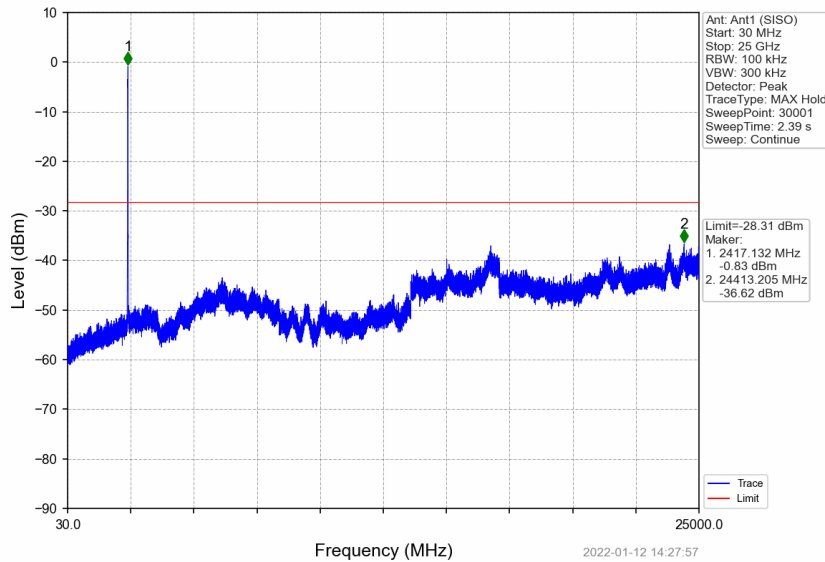
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



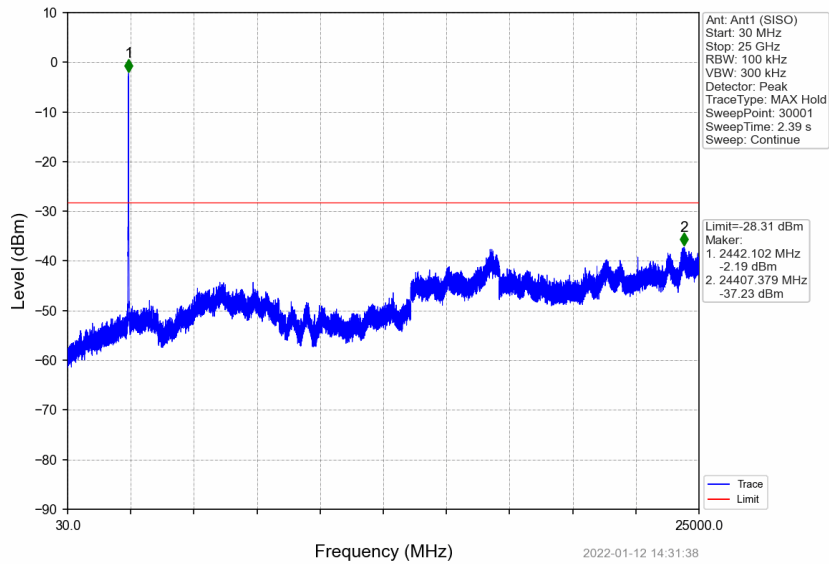
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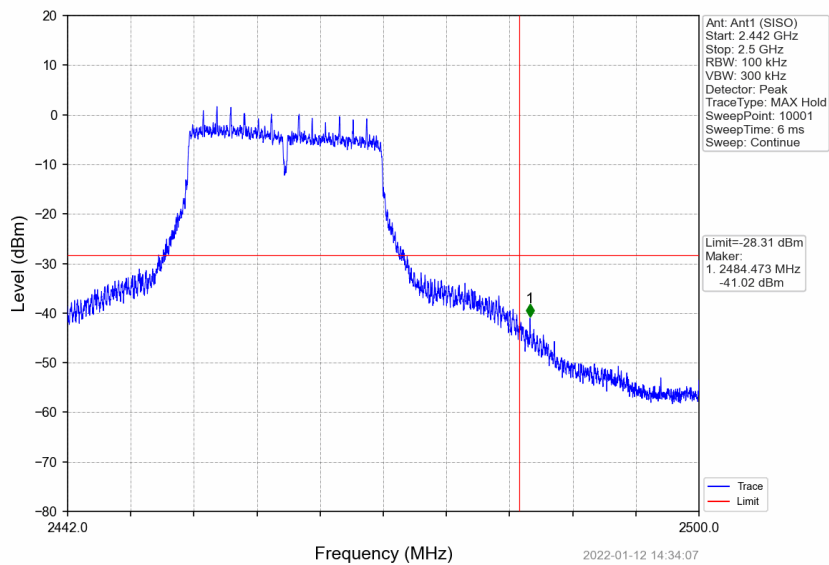
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802.11n(HT20) MCH_2437MHz Ant1 (SISO) NTV



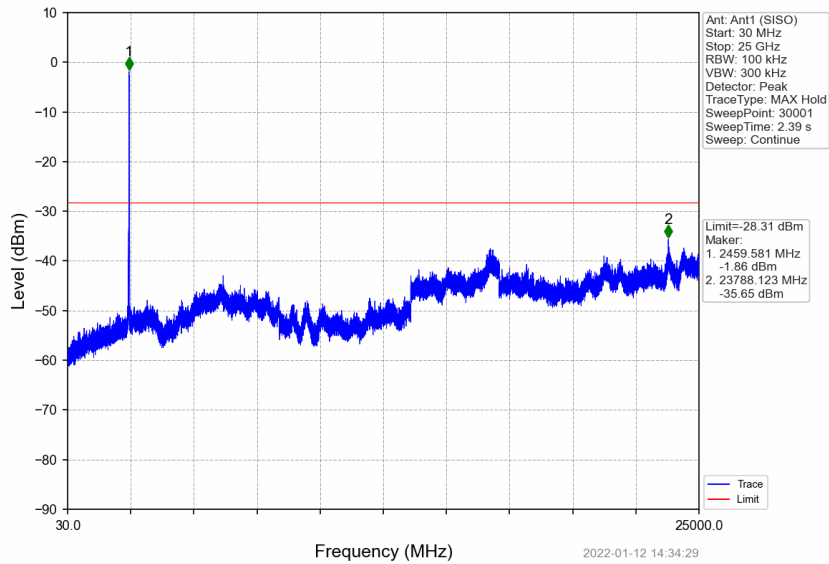
802.11n(HT20) HCH_2462MHz Ant1 (SISO) NTV



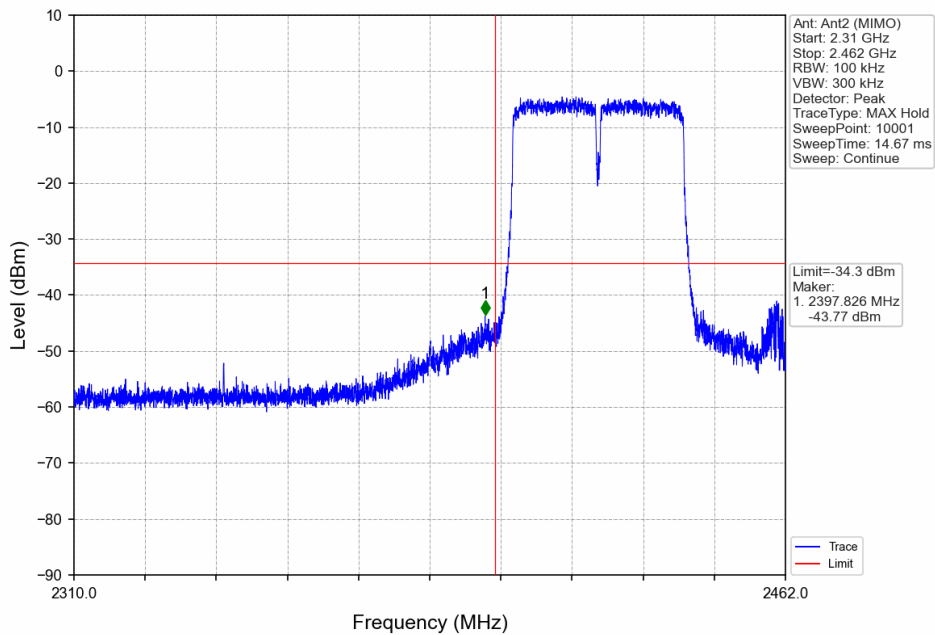
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV

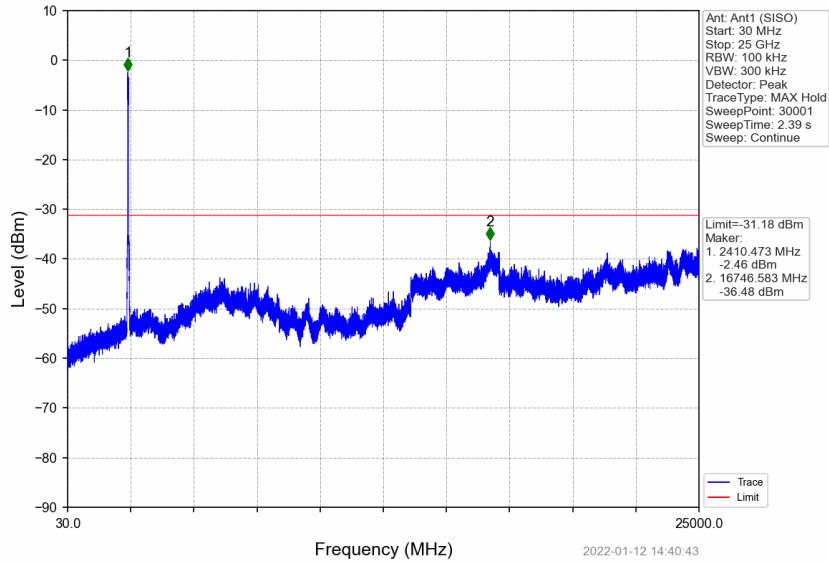


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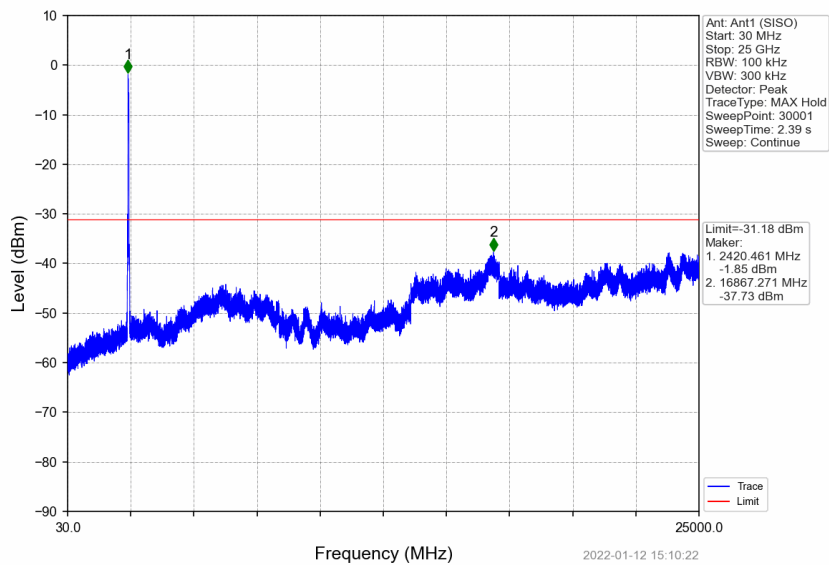
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802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



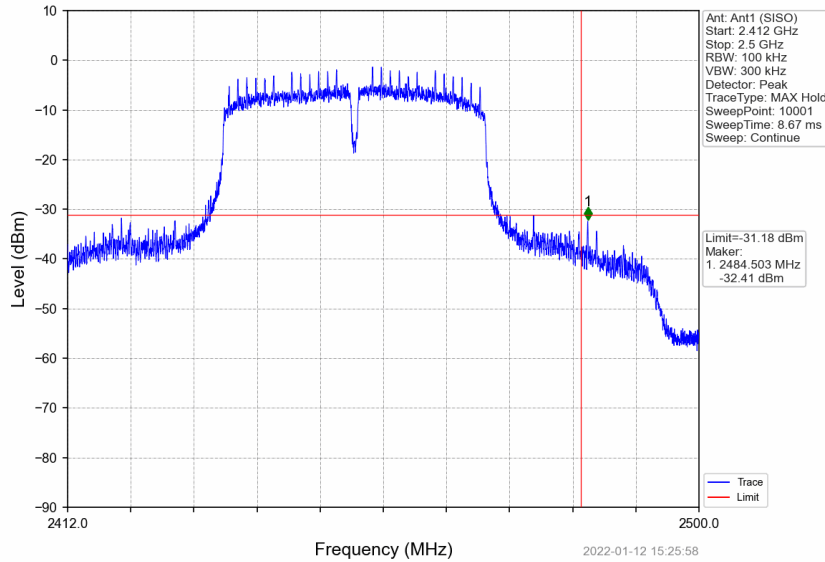
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTV



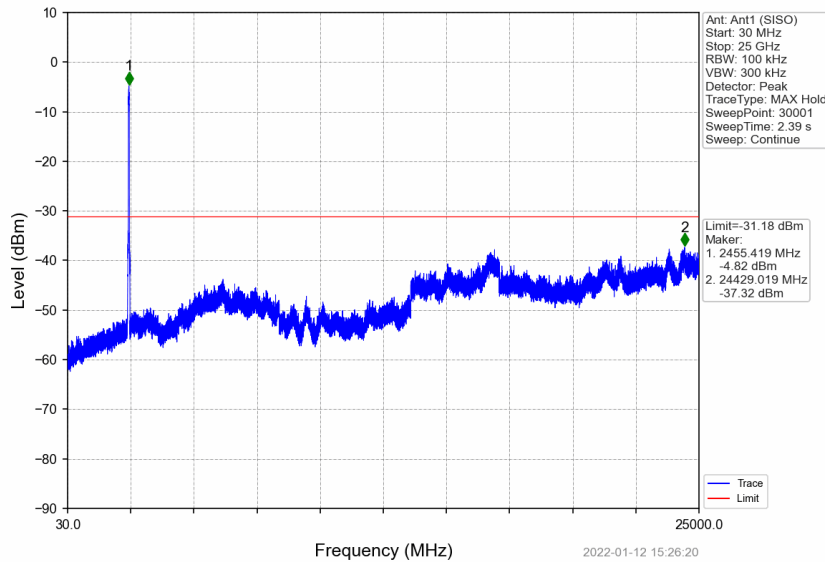
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802.11n(HT40) HCH_2452MHz Ant1 (SISO) NTV



802.11n(HT40) HCH_2452MHz Ant1 (SISO) NTV



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