

Appendix RF Test Data for 2.4GWIFI

Company: : Enorforce Technology Co., Ltd.

EUT : AI Pet Companion Robot

FCC ID: : 2BUNK-ENORE1

Model Number : ENOR E1

Report No. : HTT2025121325F02

Reviewed By : Heber He

1. Duty Cycle

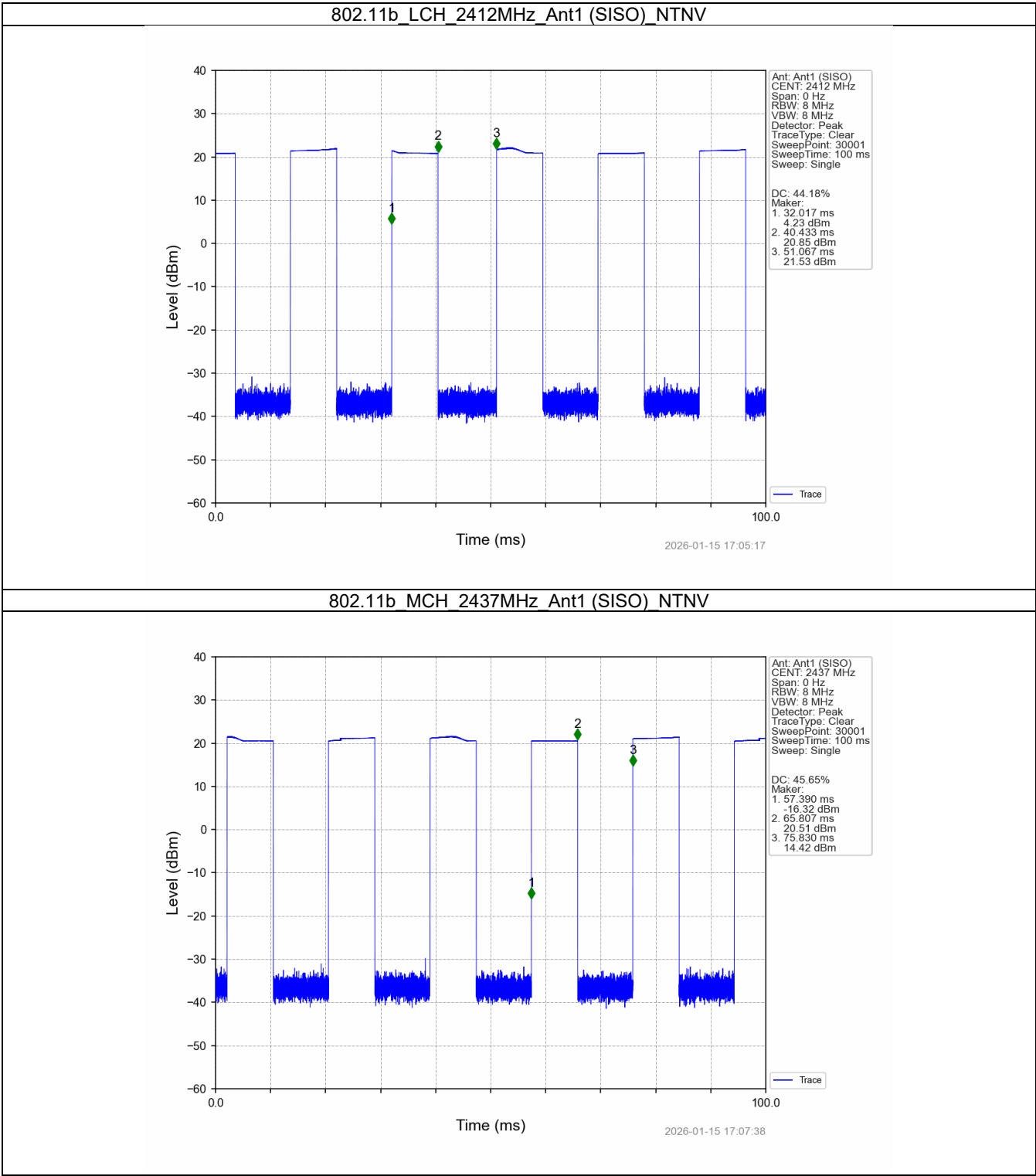
1.1 Test Result

1.1.1 Ant1

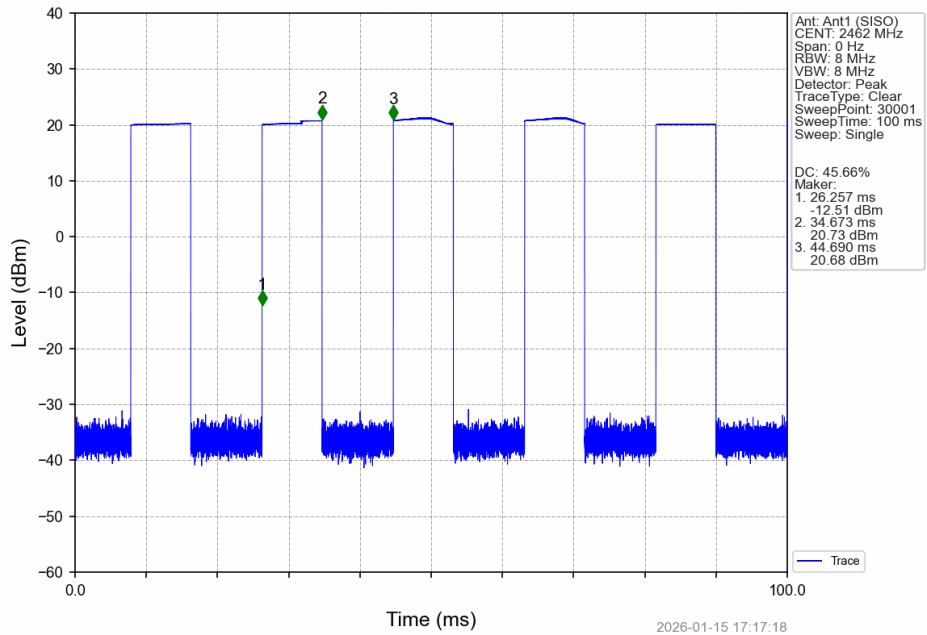
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.416	19.050	44.18	3.55	1.50
		2437	8.417	18.440	45.65	3.41	0.03
		2462	8.416	18.433	45.66	3.40	0.02
802.11g	SISO	2412	1.397	11.427	12.23	9.13	0.03
		2437	1.397	11.427	12.23	9.13	0.03
		2462	1.397	11.427	12.23	9.13	0.04
802.11n (HT20)	SISO	2412	5.090	15.117	33.67	4.73	0.02
		2437	5.090	15.117	33.67	4.73	0.03
		2462	5.090	15.120	33.66	4.73	0.02
802.11n (HT40)	SISO	2422	4.897	14.920	32.82	4.84	0.02
		2437	4.897	14.920	32.82	4.84	0.02
		2452	4.897	14.924	32.81	4.84	0.03
802.11ax (HEW20)	SISO	2412	3.877	13.907	27.88	5.55	0.02
		2437	3.877	13.907	27.88	5.55	0.01
		2462	3.876	13.906	27.87	5.55	0.04
802.11ax (HEW40)	SISO	2422	3.870	13.893	27.86	5.55	0.02
		2437	3.874	13.904	27.86	5.55	0.02
		2452	3.873	13.900	27.86	5.55	0.02

1.2 Test Graph

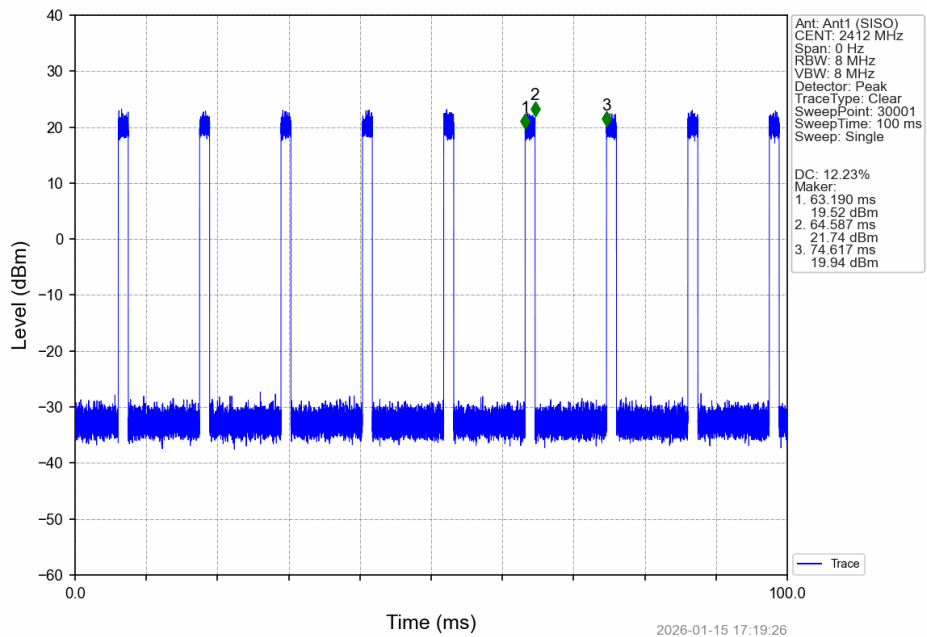
1.2.1 Ant1



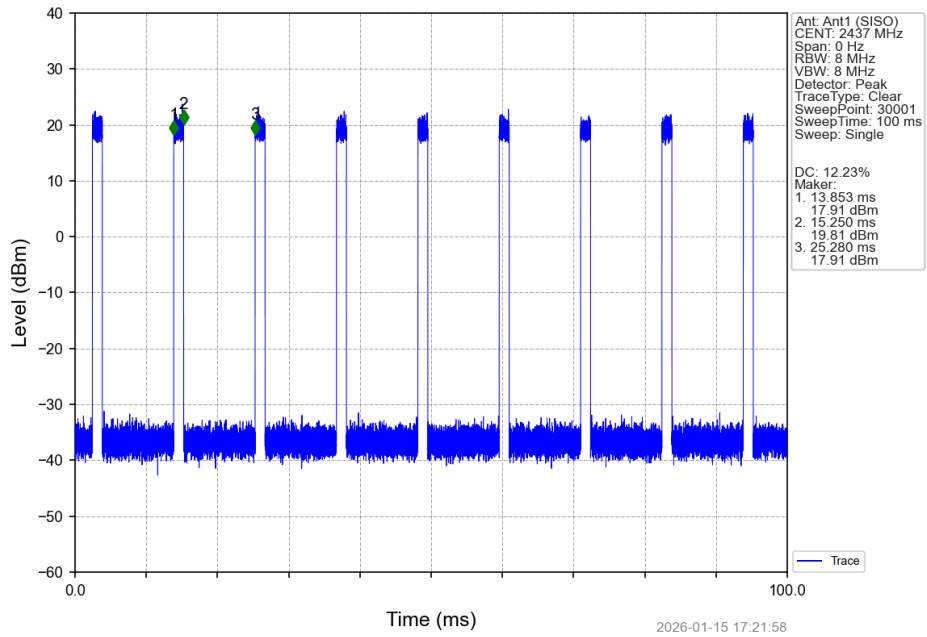
802.11b HCH 2462MHz Ant1 (SISO) NTN



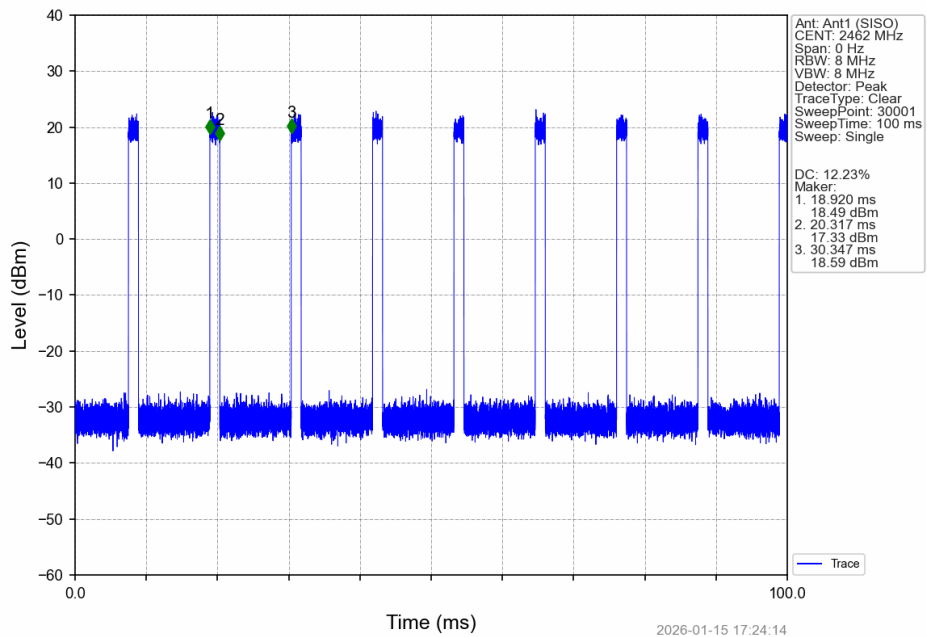
802.11g LCH 2412MHz Ant1 (SISO) NTN



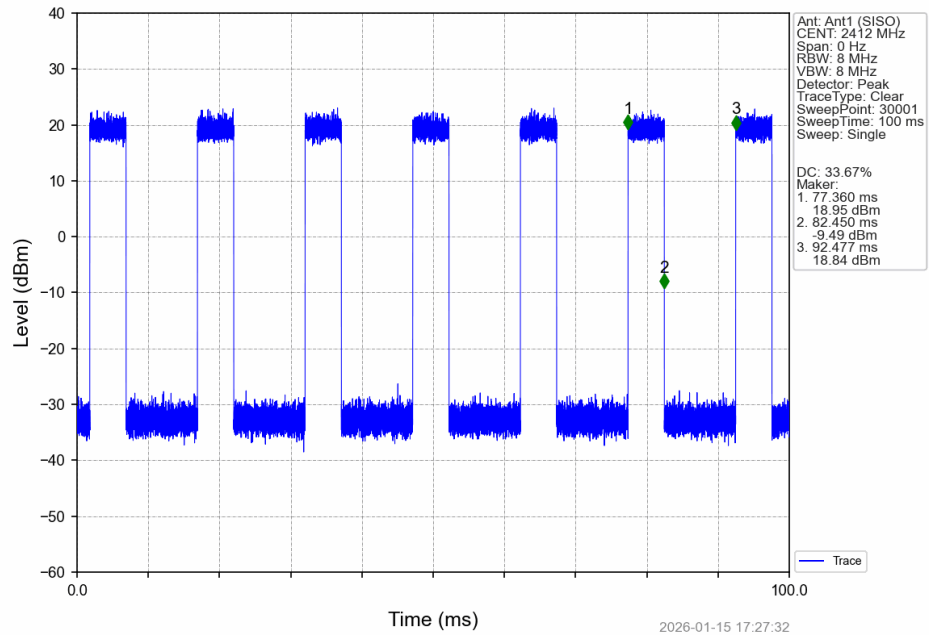
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



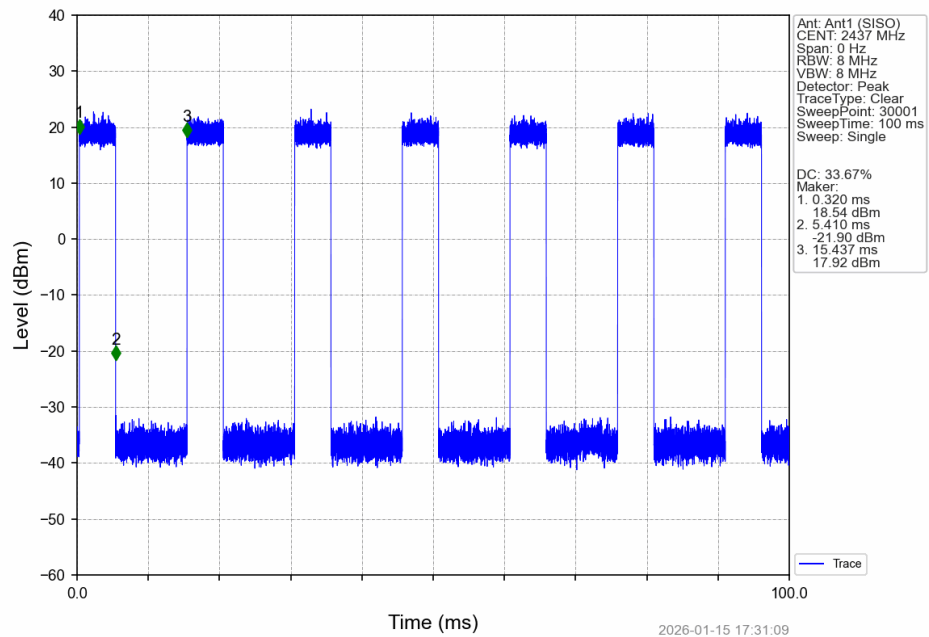
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



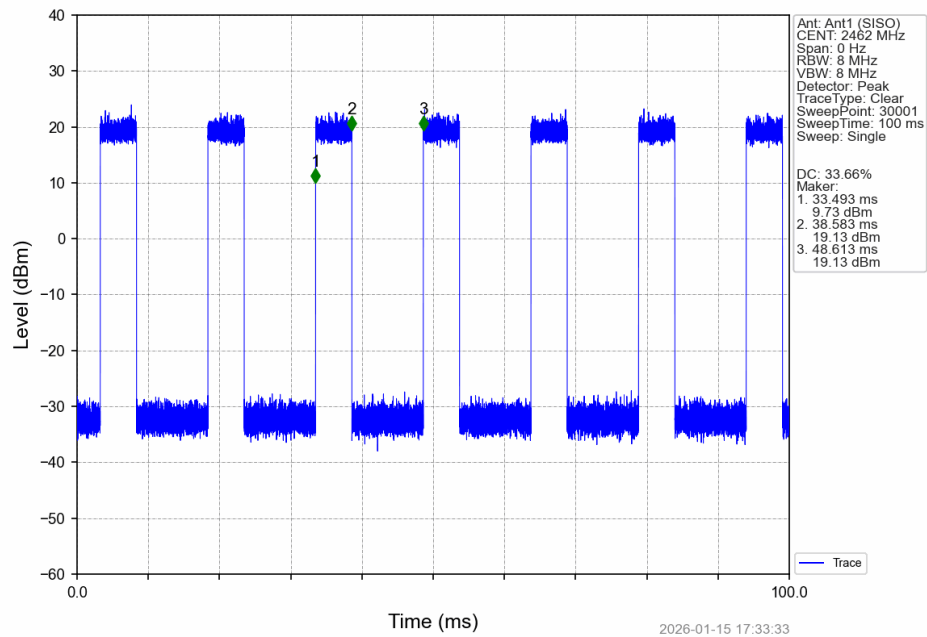
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



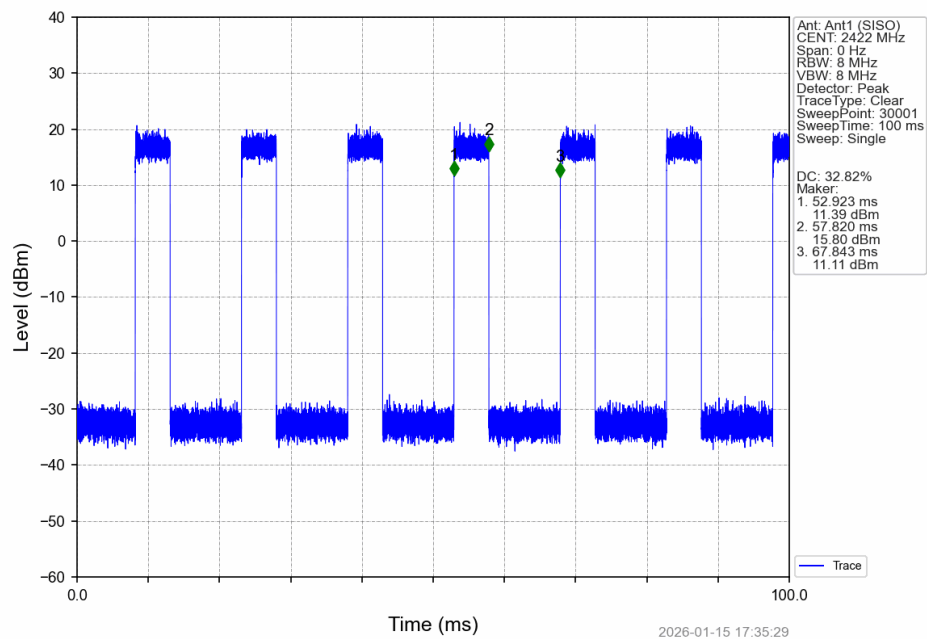
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTN



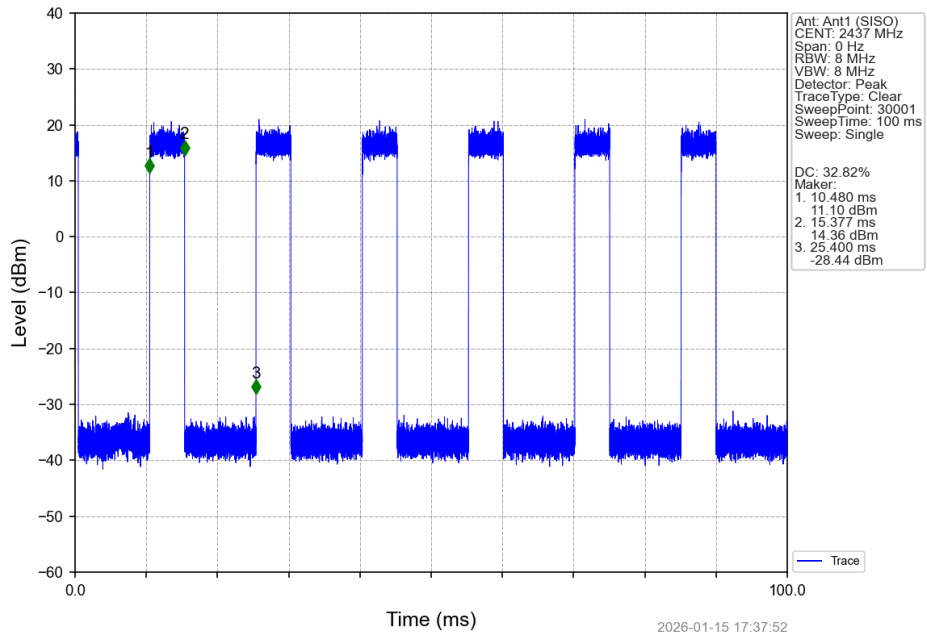
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



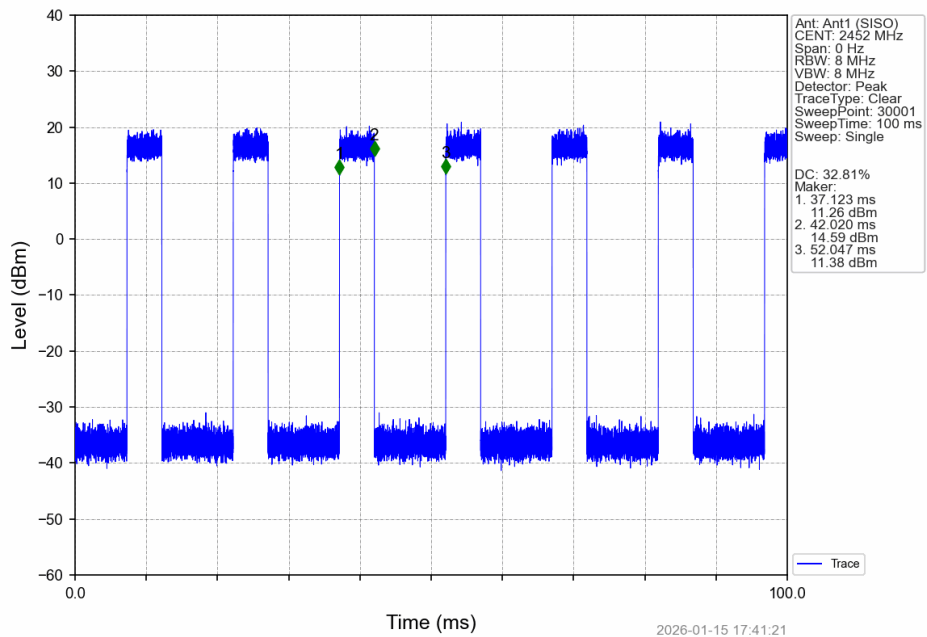
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



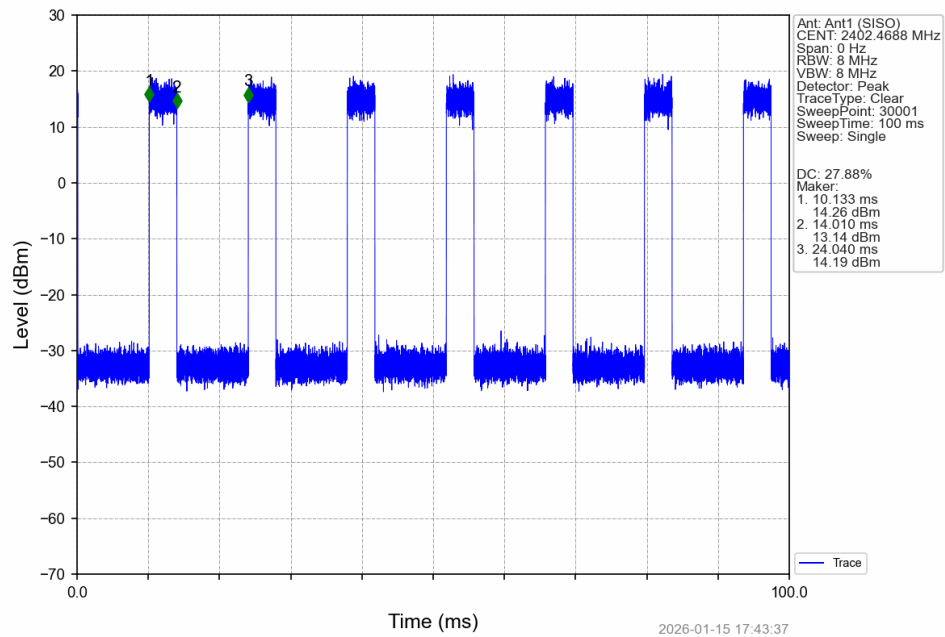
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



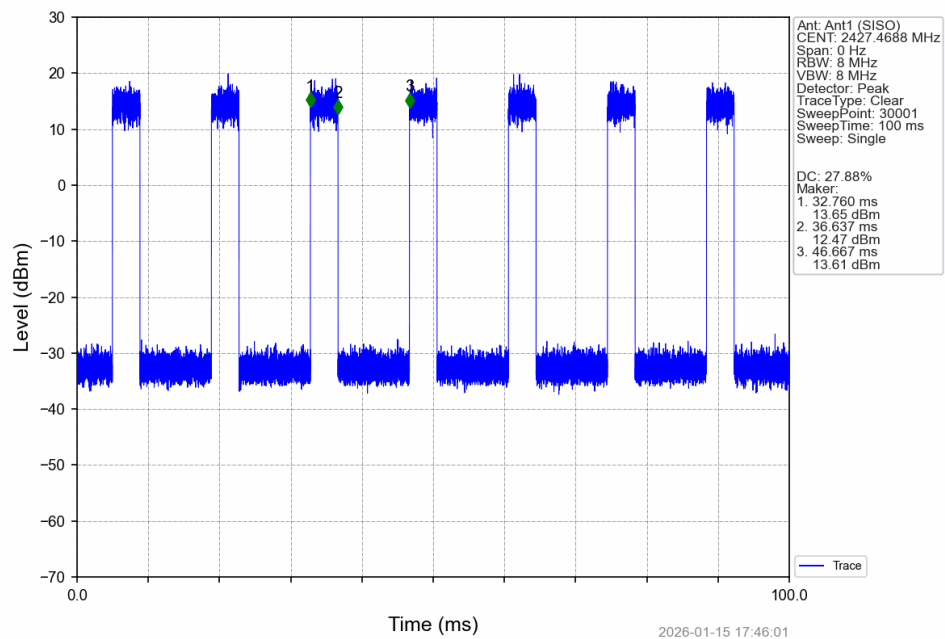
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



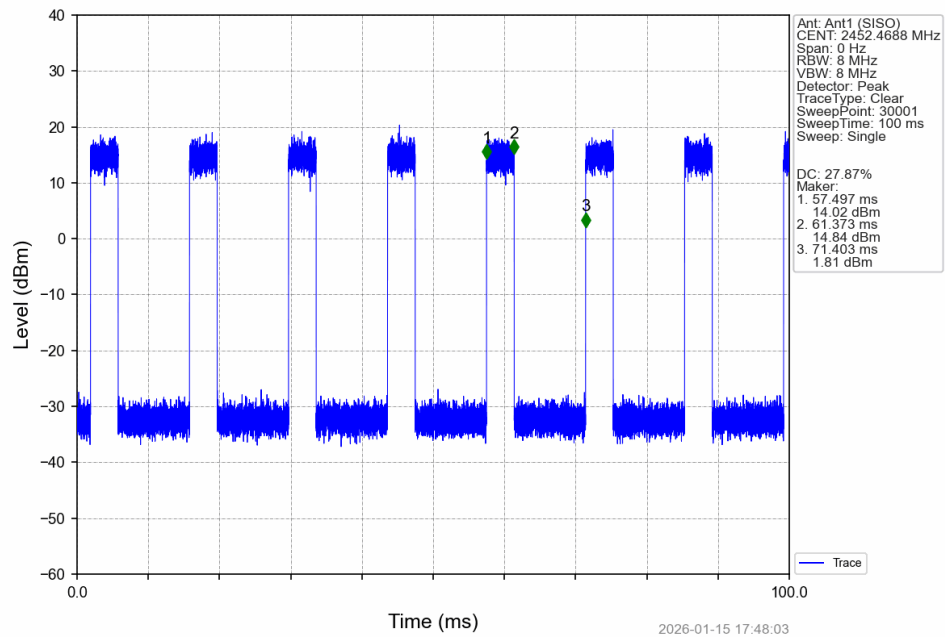
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (SISO) NTN



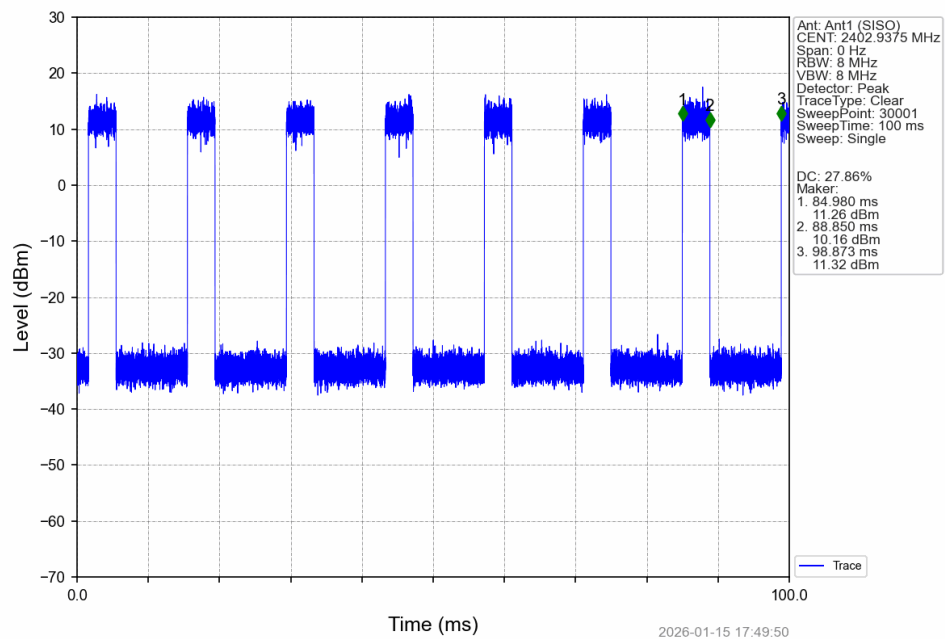
802.11ax(HEW20) MCH 2437MHz SU / Ant1 (SISO) NTN



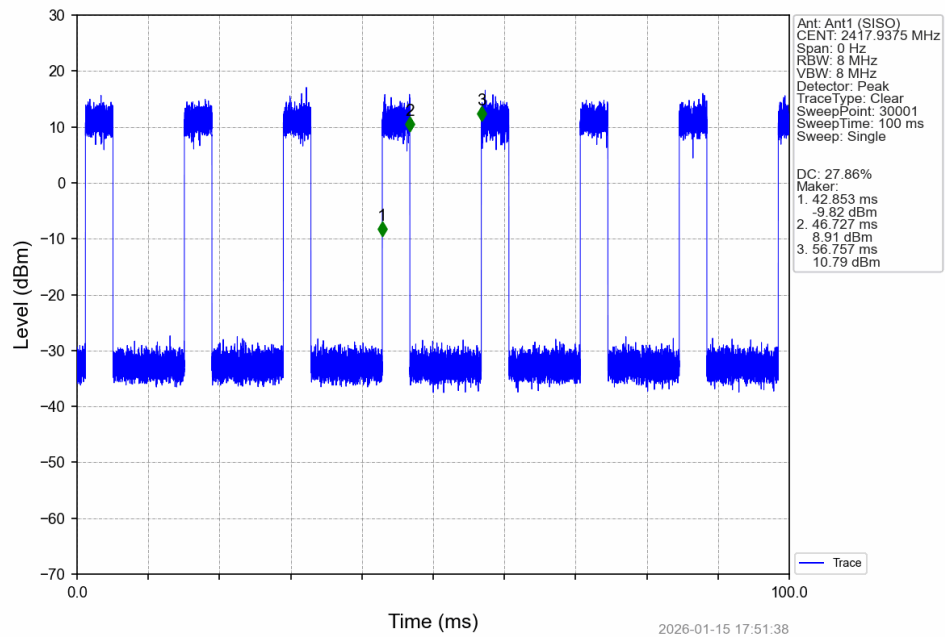
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (SISO) NTNv



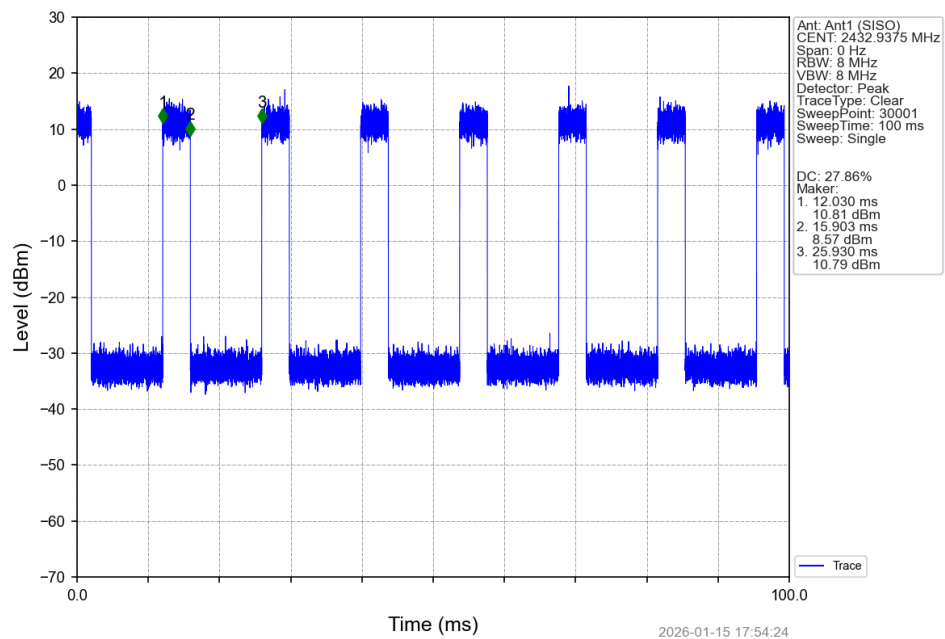
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (SISO) NTNv



802.11ax(HEW40) MCH 2437MHz SU / Ant1 (SISO) NTNv



802.11ax(HEW40) HCH 2452MHz SU / Ant1 (SISO) NTNv



2. Bandwidth

2.1 Test Result

2.1.1 OBW

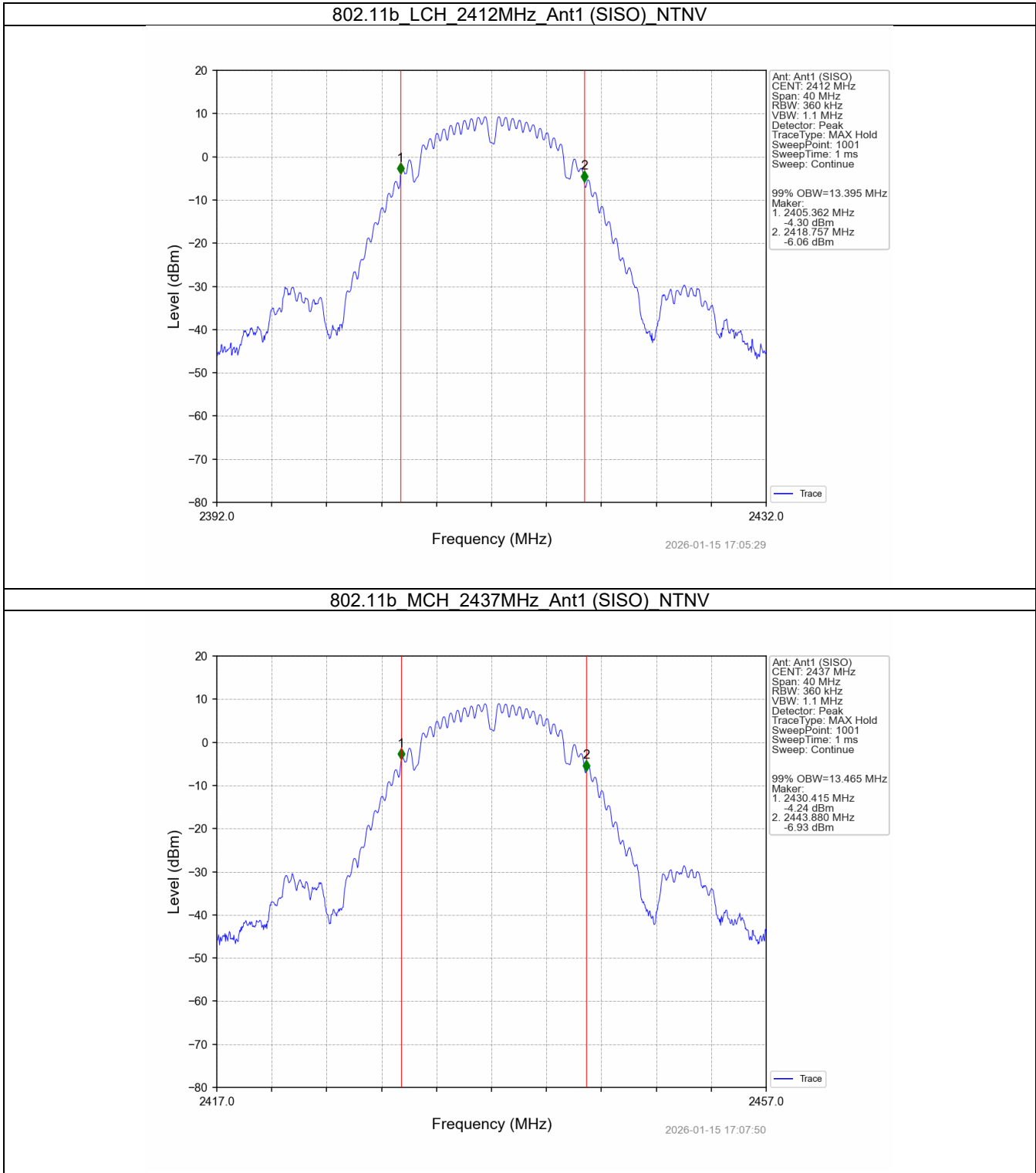
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.395	/	Pass
		2437	1	13.465	/	Pass
		2462	1	13.499	/	Pass
802.11g	SISO	2412	1	18.236	/	Pass
		2437	1	18.205	/	Pass
		2462	1	17.792	/	Pass
802.11n (HT20)	SISO	2412	1	19.530	/	Pass
		2437	1	19.559	/	Pass
		2462	1	18.987	/	Pass
802.11n (HT40)	SISO	2422	1	37.520	/	Pass
		2437	1	37.453	/	Pass
		2452	1	37.441	/	Pass
802.11ax (HEW20)	SISO	2412	1	19.235	/	Pass
		2437	1	19.309	/	Pass
		2462	1	19.385	/	Pass
802.11ax (HEW40)	SISO	2422	1	38.486	/	Pass
		2437	1	38.418	/	Pass
		2452	1	38.377	/	Pass

2.1.2 6dB BW

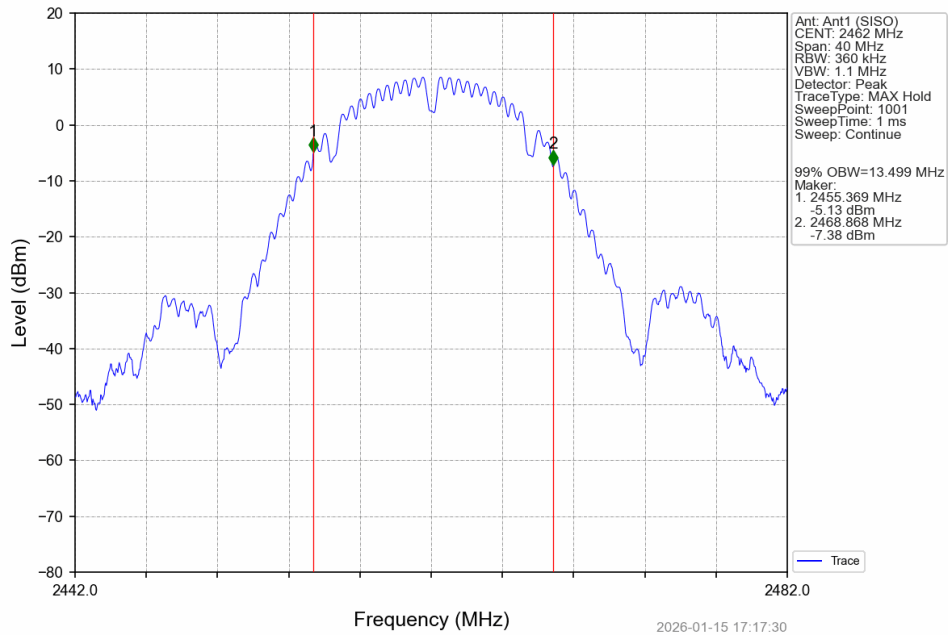
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.273	≥ 0.5	Pass
		2437	1	9.264	≥ 0.5	Pass
		2462	1	9.273	≥ 0.5	Pass
802.11g	SISO	2412	1	16.393	≥ 0.5	Pass
		2437	1	16.397	≥ 0.5	Pass
		2462	1	16.217	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.791	≥ 0.5	Pass
		2437	1	17.528	≥ 0.5	Pass
		2462	1	17.543	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.025	≥ 0.5	Pass
		2437	1	36.294	≥ 0.5	Pass
		2452	1	35.861	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	1	17.697	≥ 0.5	Pass
		2437	1	18.651	≥ 0.5	Pass
		2462	1	18.618	≥ 0.5	Pass
802.11ax (HEW40)	SISO	2422	1	37.230	≥ 0.5	Pass
		2437	1	37.184	≥ 0.5	Pass
		2452	1	37.345	≥ 0.5	Pass

2.2 Test Graph

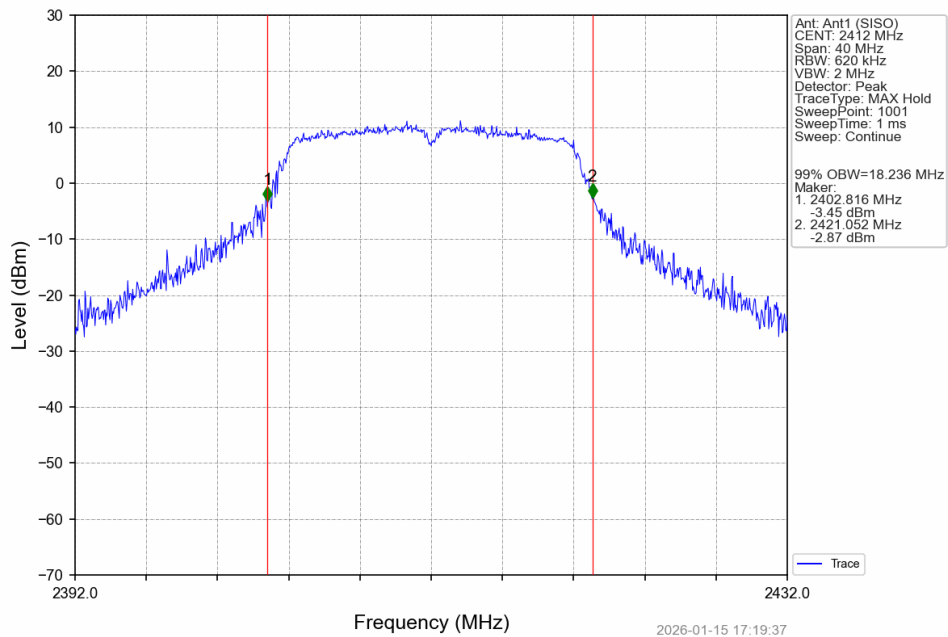
2.2.1 OBW



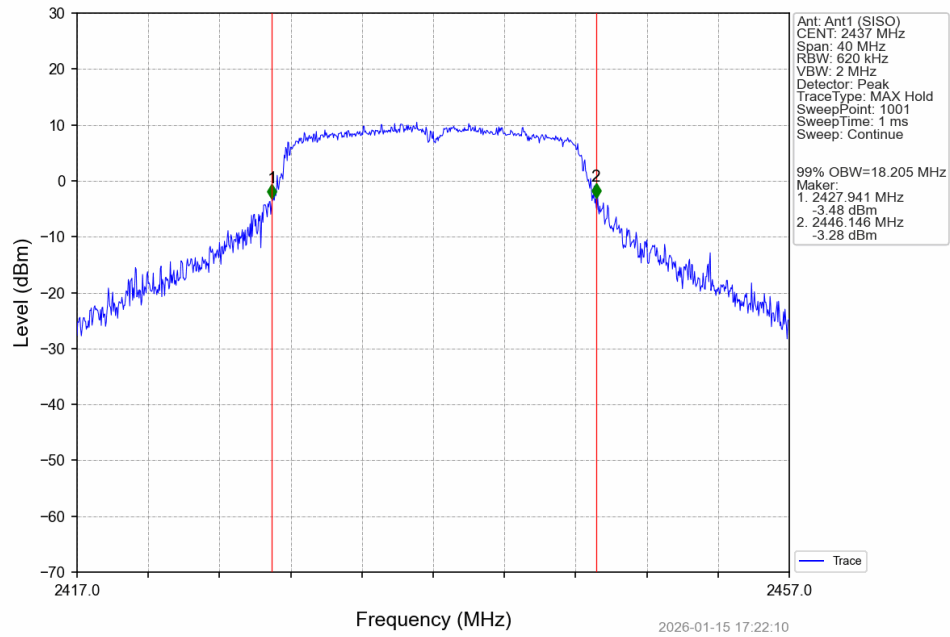
802.11b HCH 2462MHz Ant1 (SISO) NTN



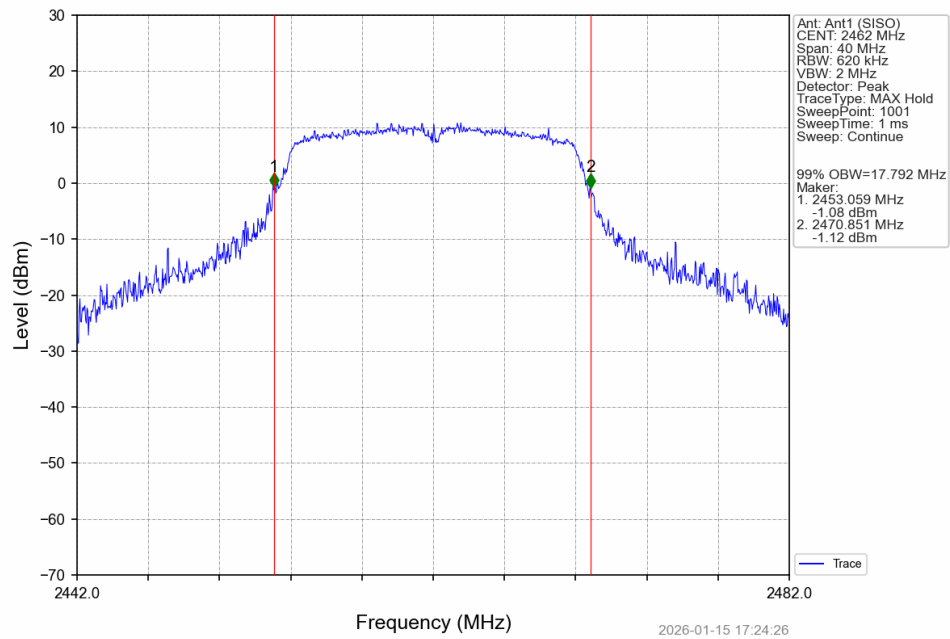
802.11g LCH 2412MHz Ant1 (SISO) NTN



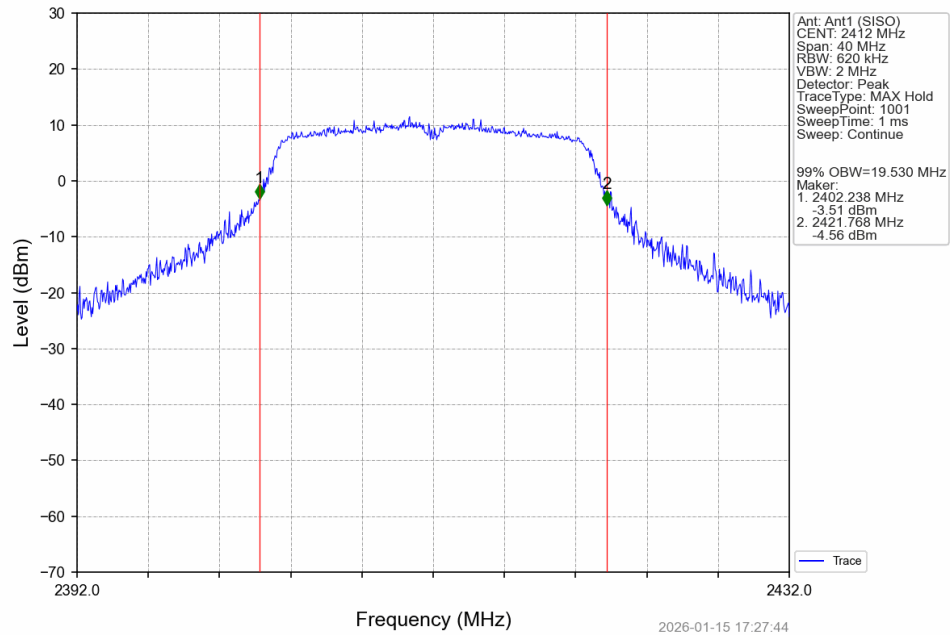
802.11g MCH 2437MHz Ant1 (SISO) NTN



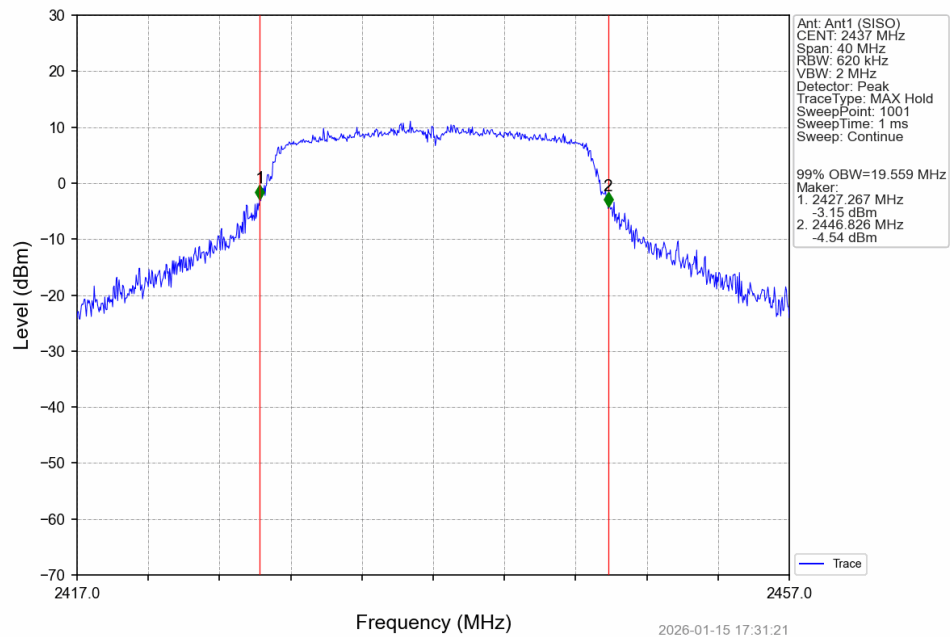
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



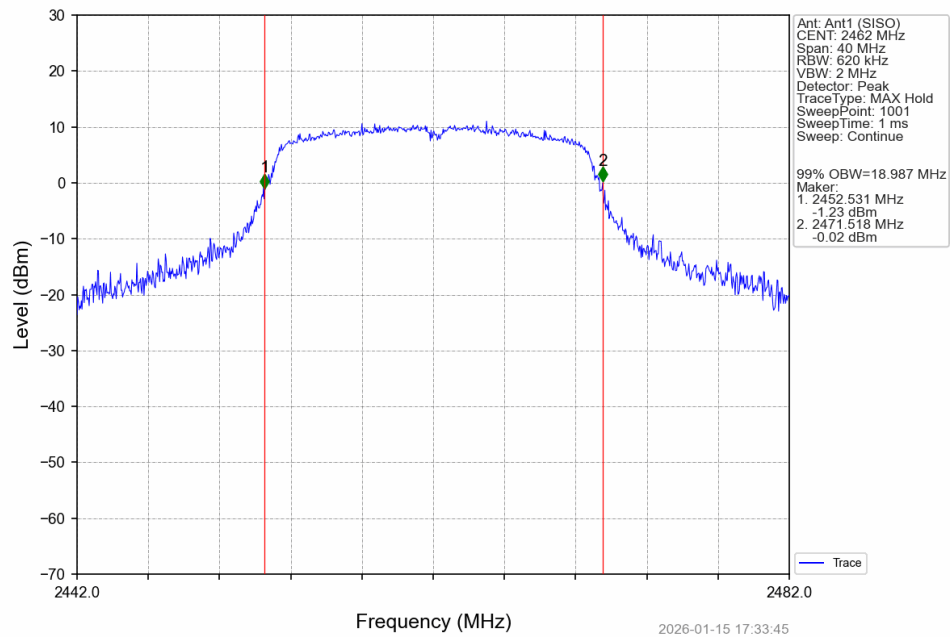
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



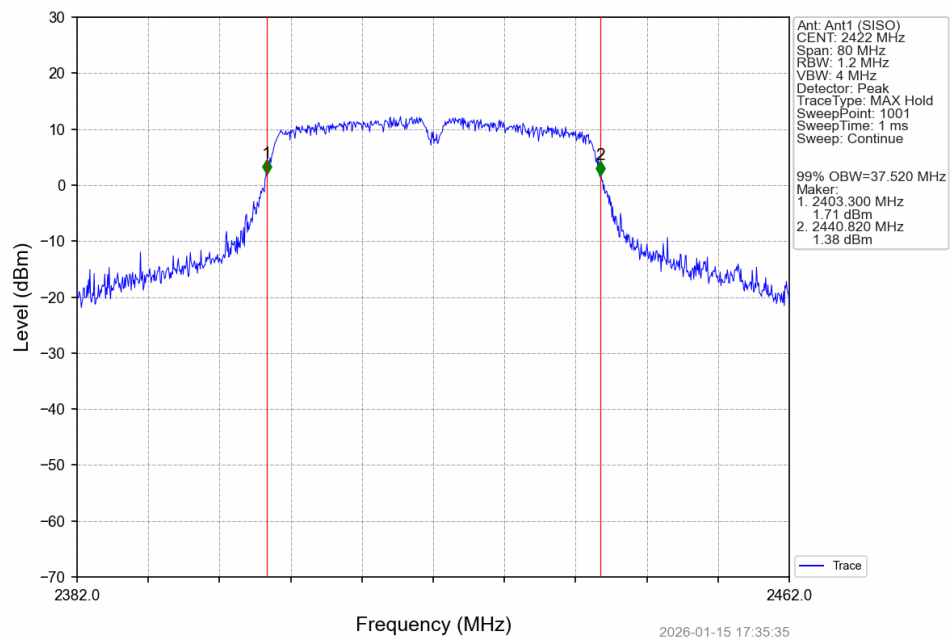
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTN



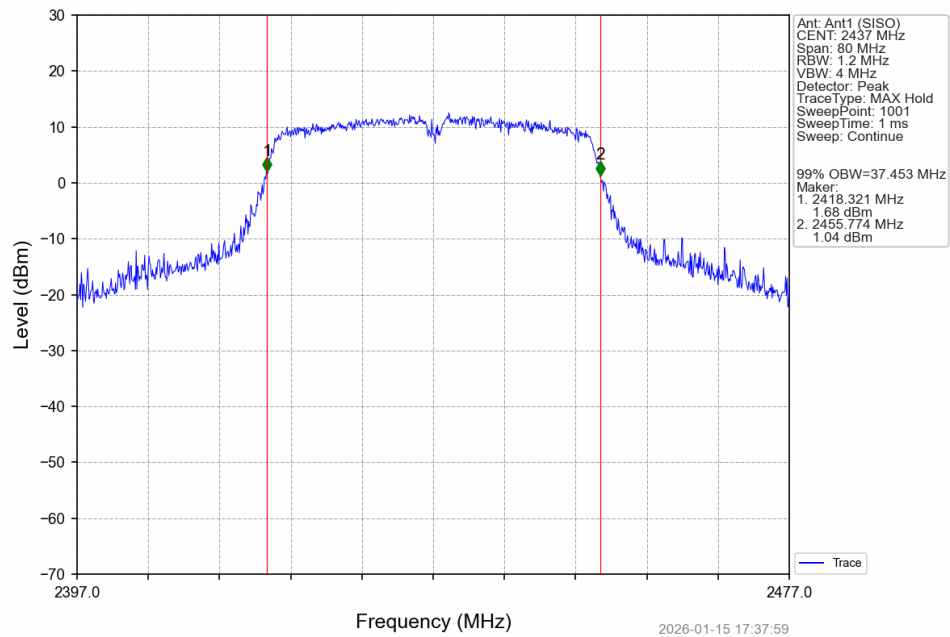
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



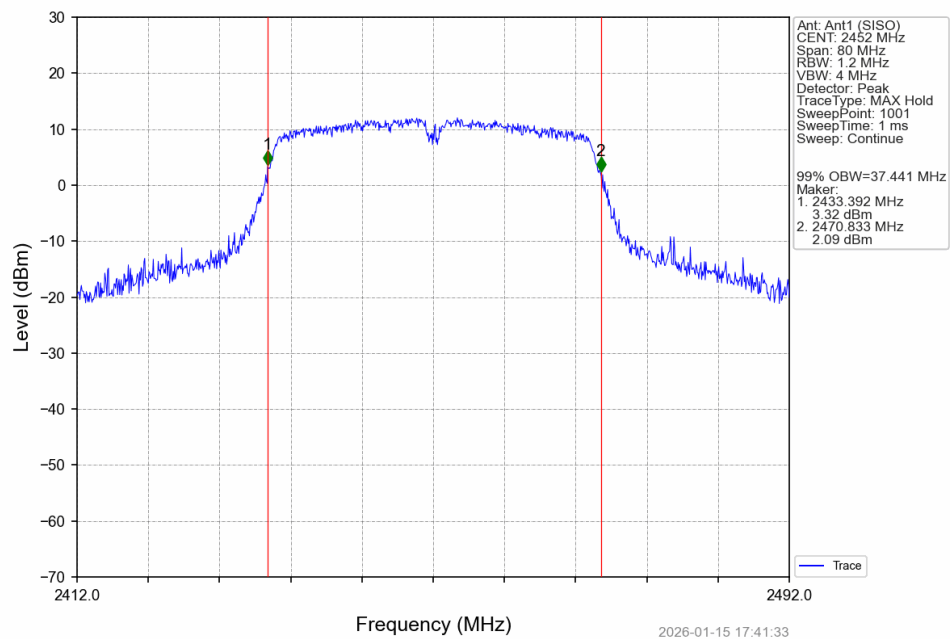
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



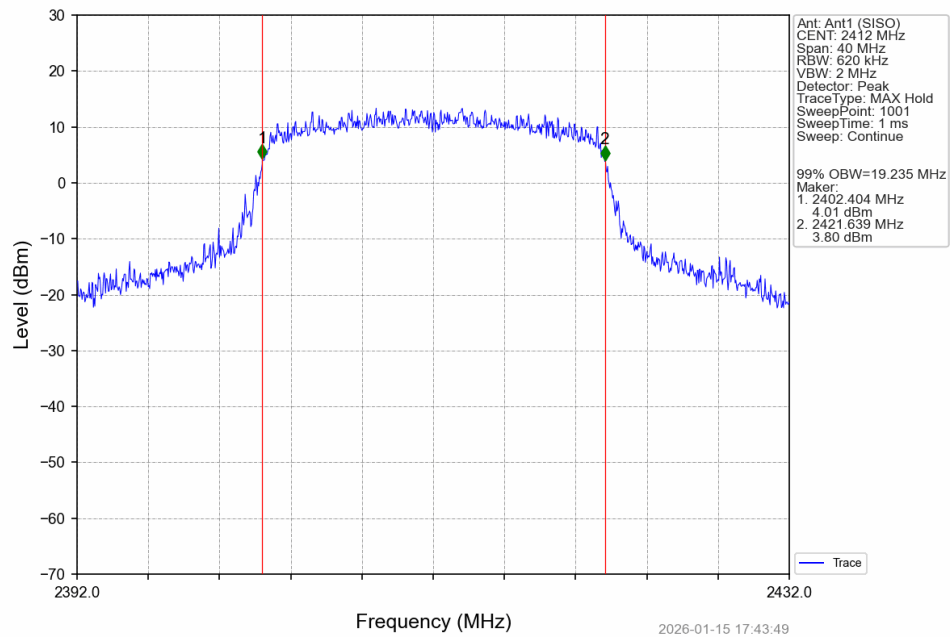
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



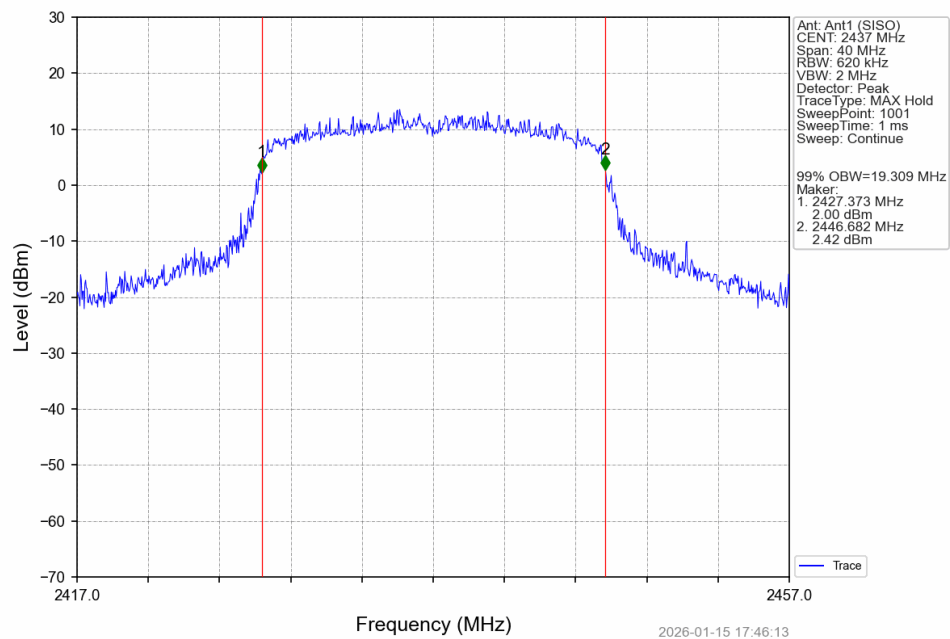
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



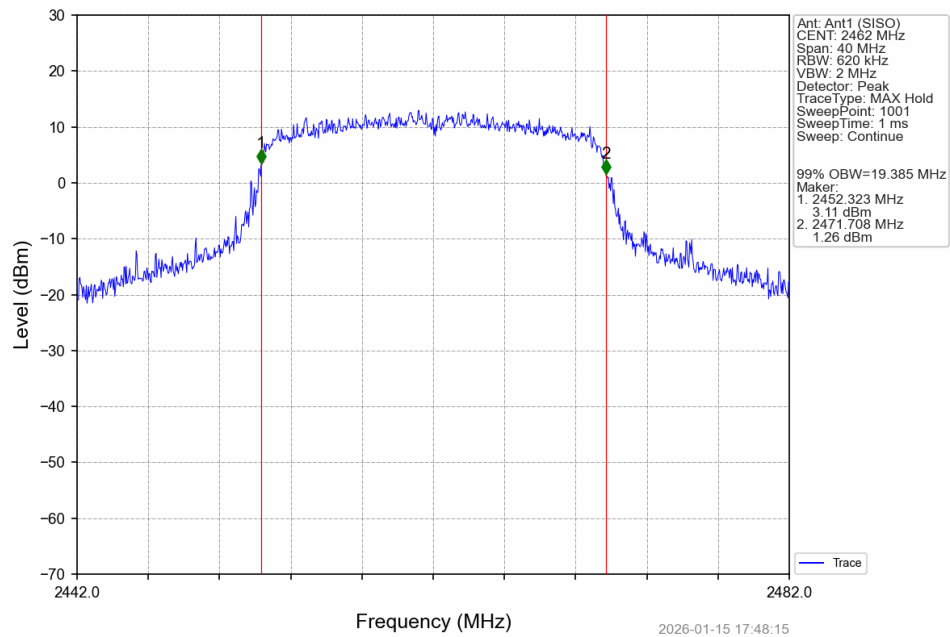
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (SISO) NTN



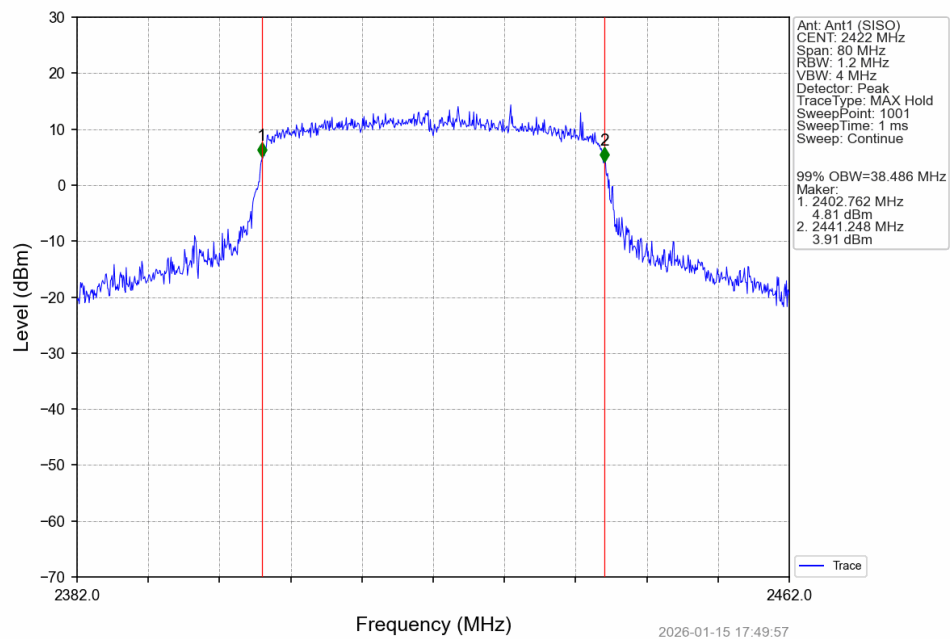
802.11ax(HEW20)_MCH_2437MHz_SU / Ant1 (SISO) NTN



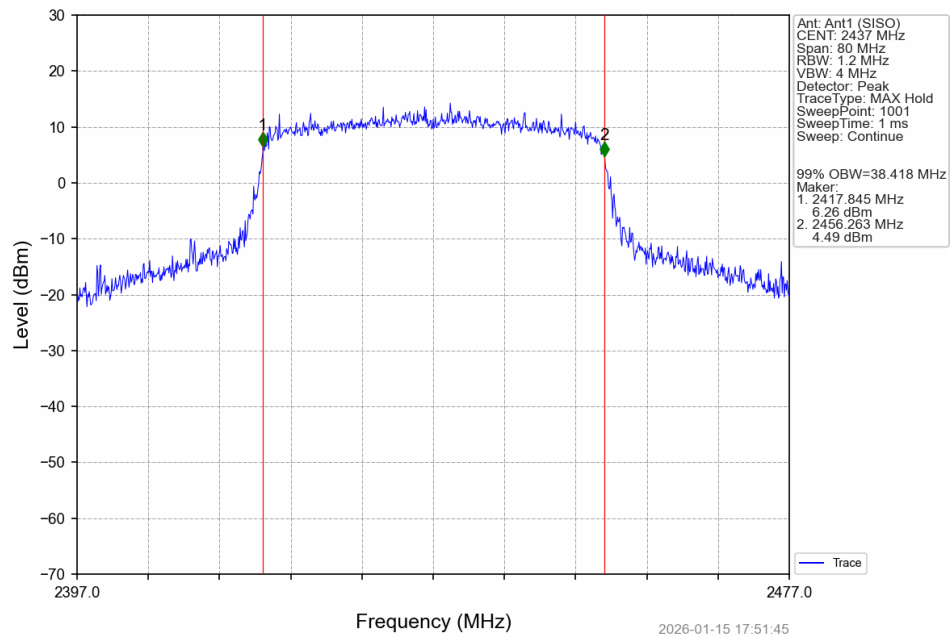
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (SISO) NTNv



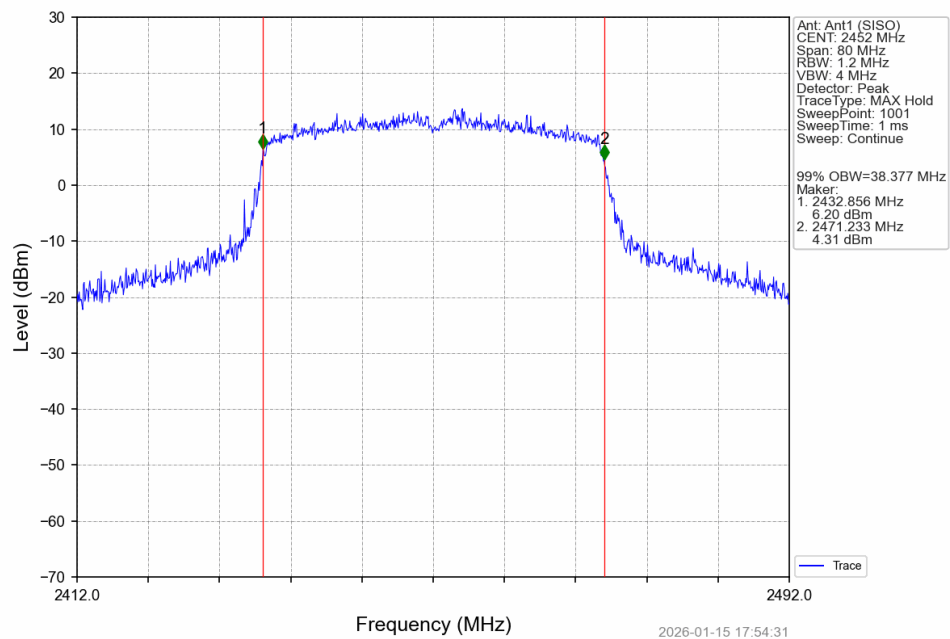
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (SISO) NTNv



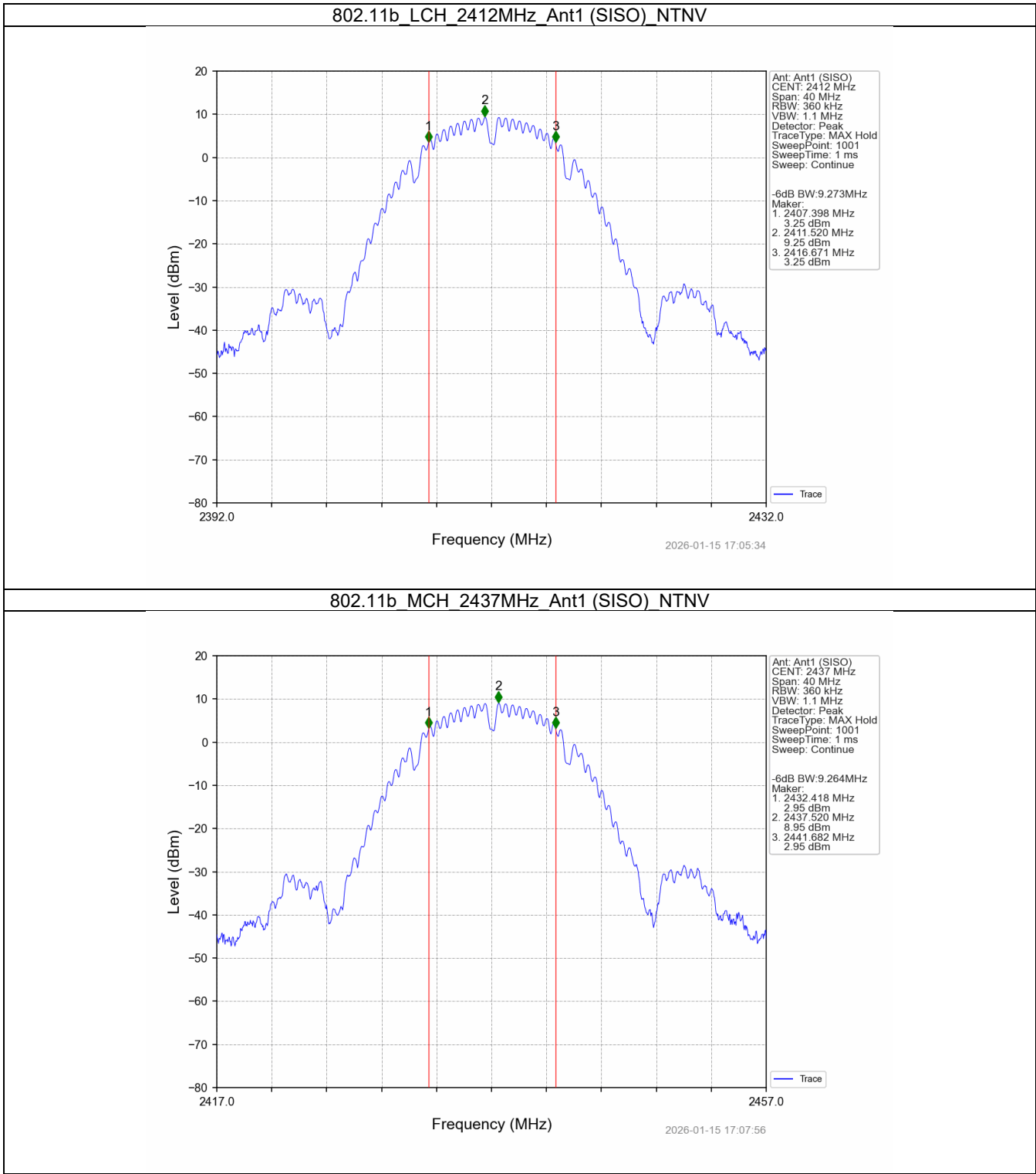
802.11ax(HEW40) MCH 2437MHz SU / Ant1 (SISO) NTNv



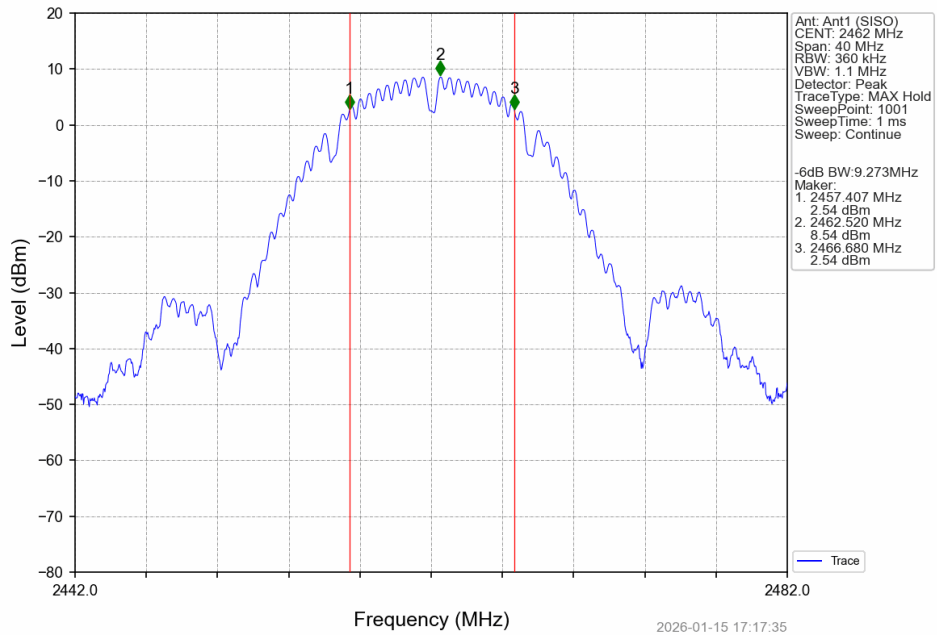
802.11ax(HEW40) HCH 2452MHz SU / Ant1 (SISO) NTNv



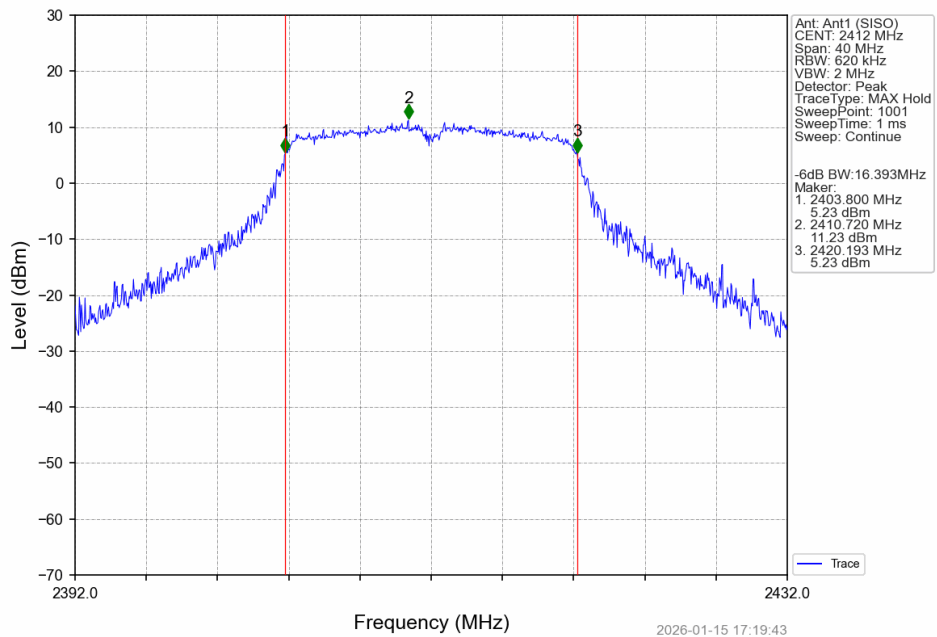
2.2.2 6dB BW



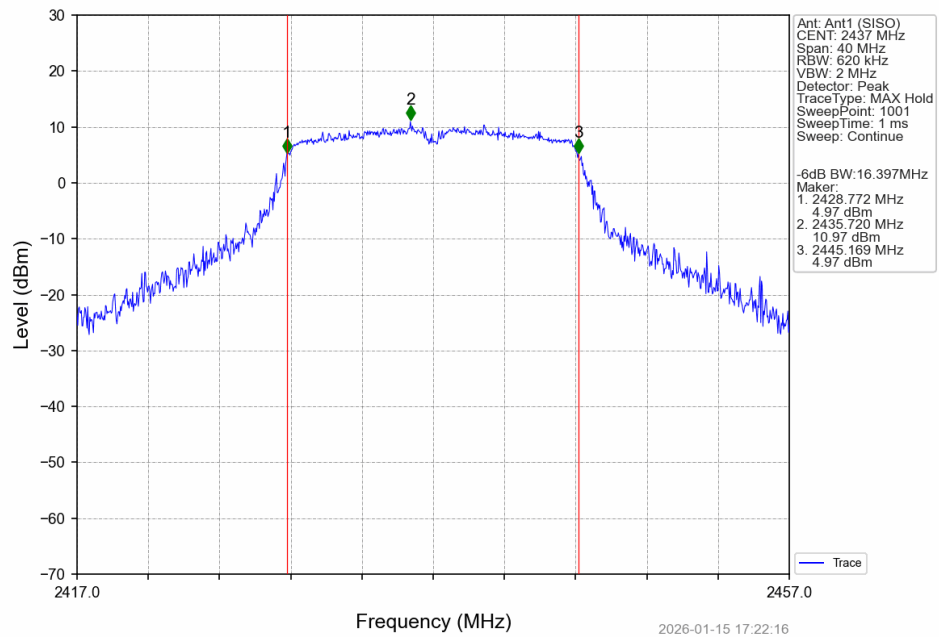
802.11b HCH 2462MHz Ant1 (SISO) NTN



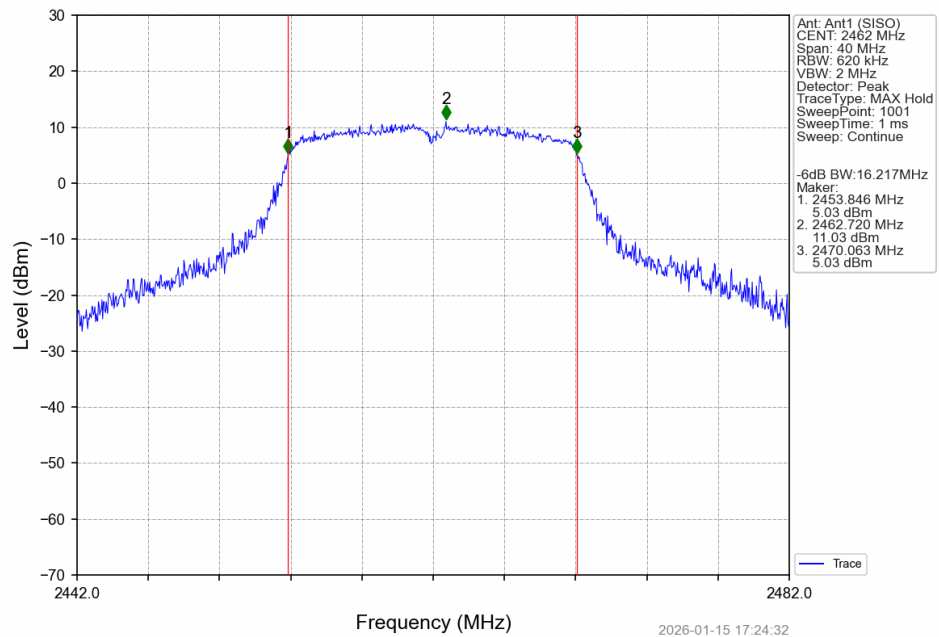
802.11g LCH 2412MHz Ant1 (SISO) NTN



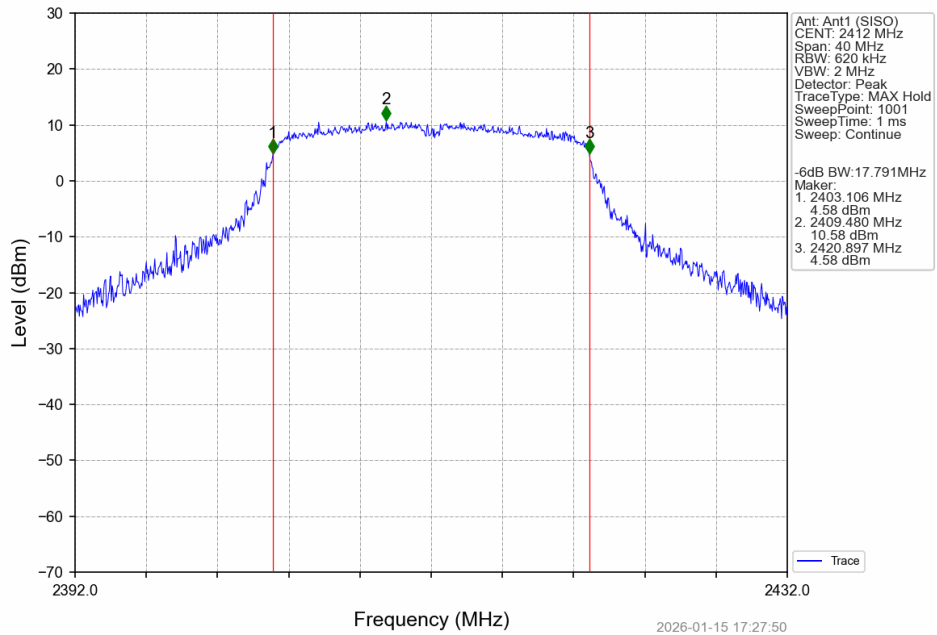
802.11g MCH 2437MHz Ant1 (SISO) NTN



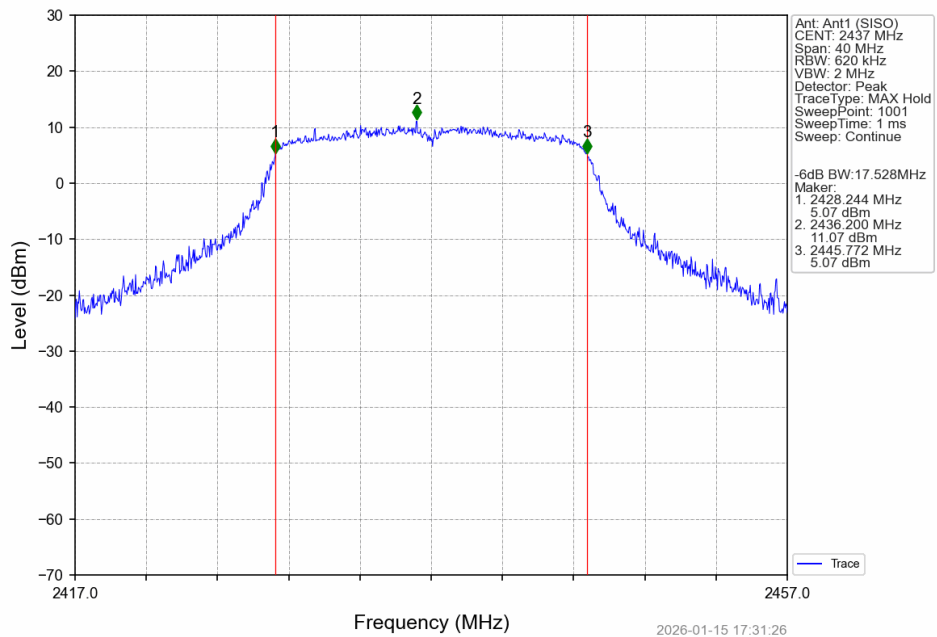
802.11g_HCH_2462MHz_Ant1 (SISO)_NTN



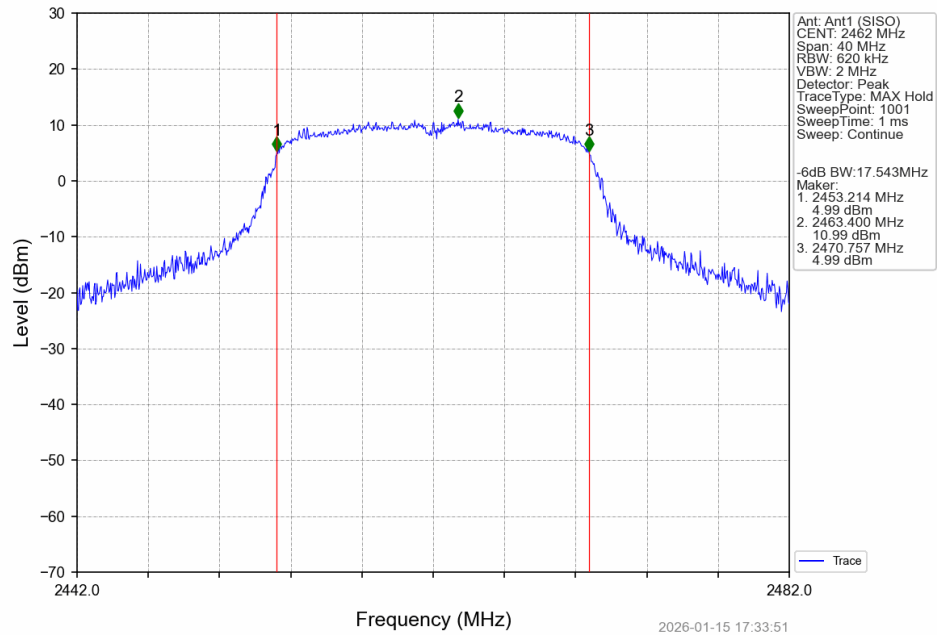
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



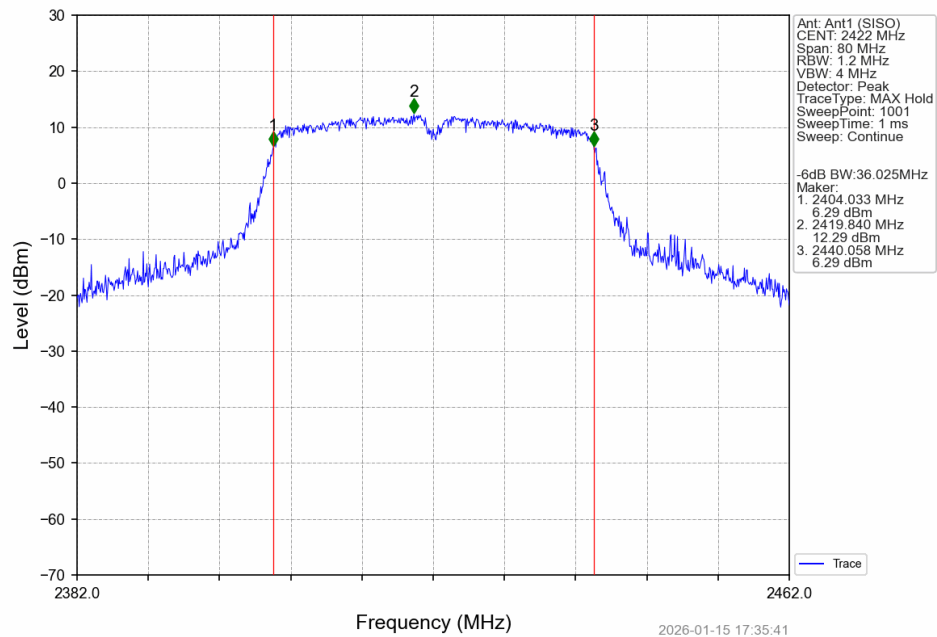
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



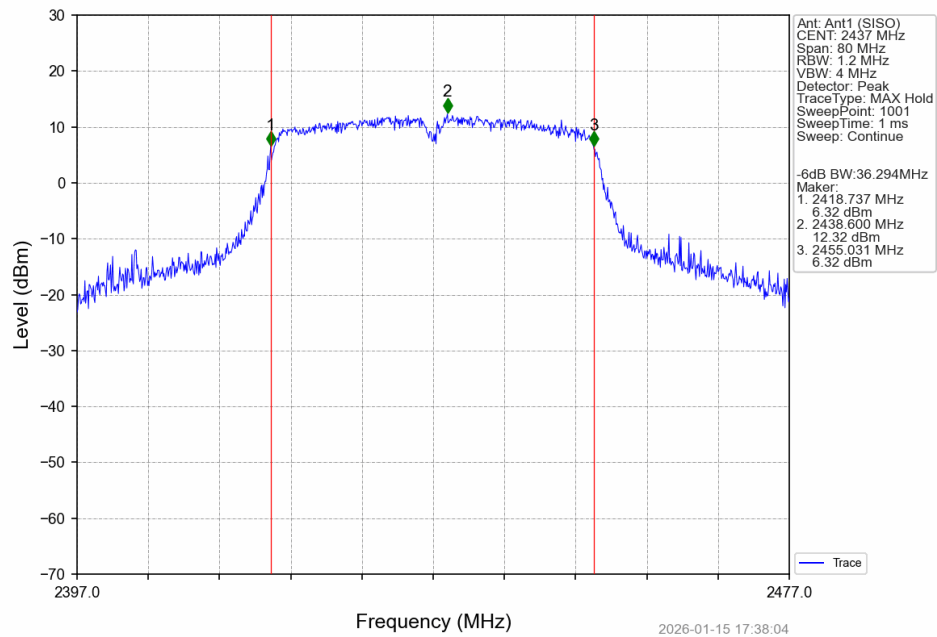
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



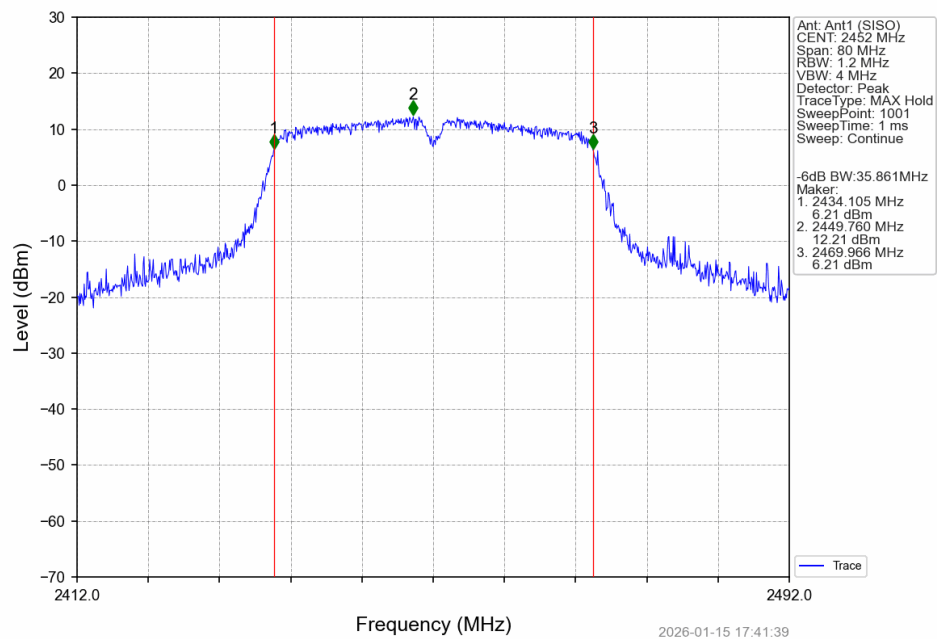
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



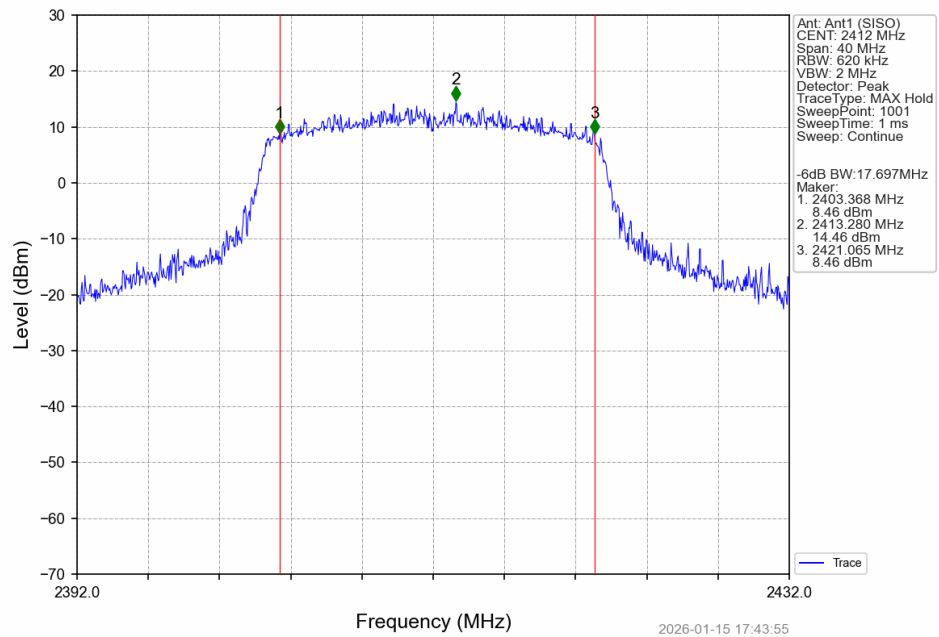
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



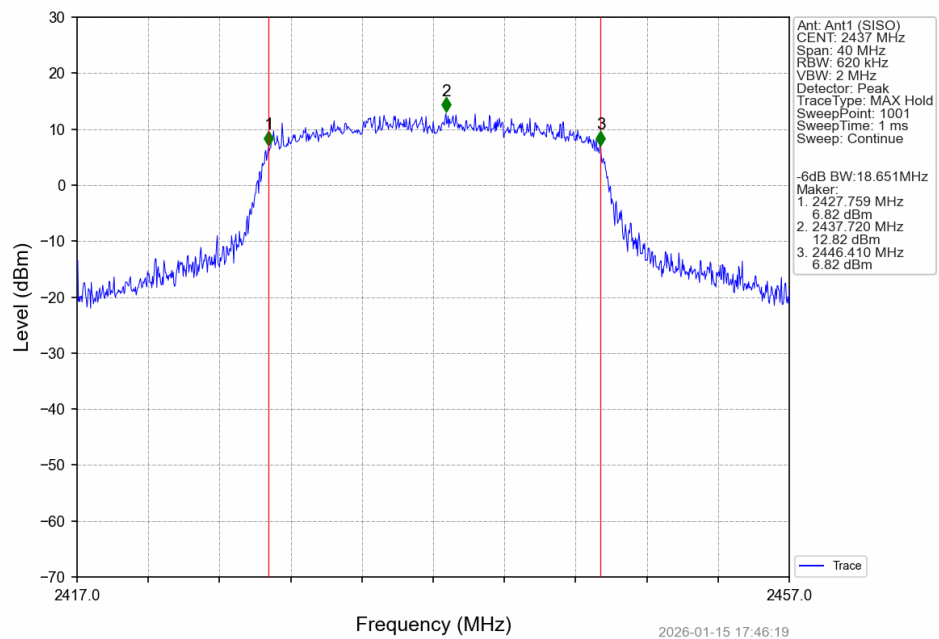
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



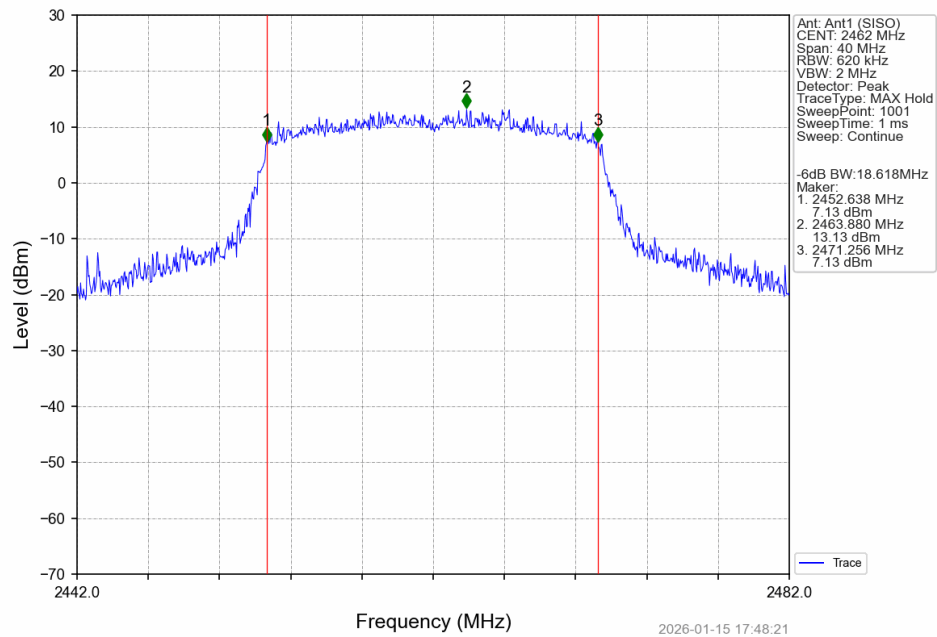
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (SISO) NTN



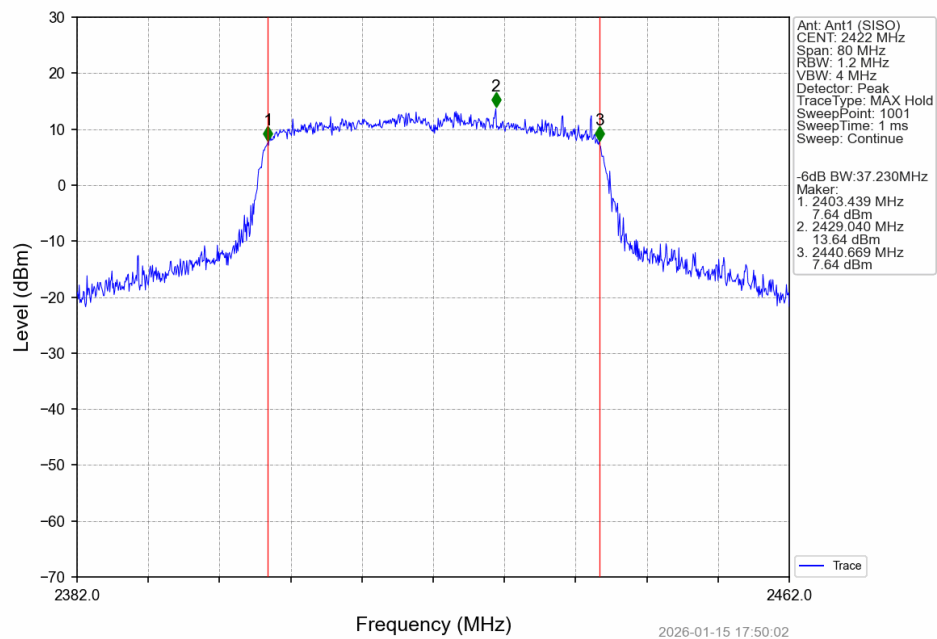
802.11ax(HEW20)_MCH 2437MHz SU / Ant1 (SISO) NTN



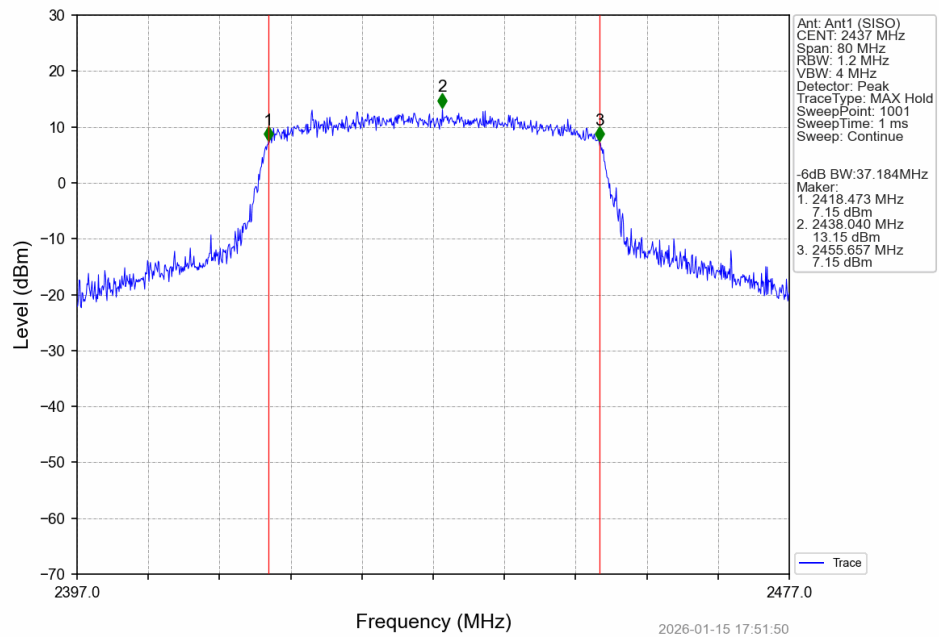
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (SISO) NTNv



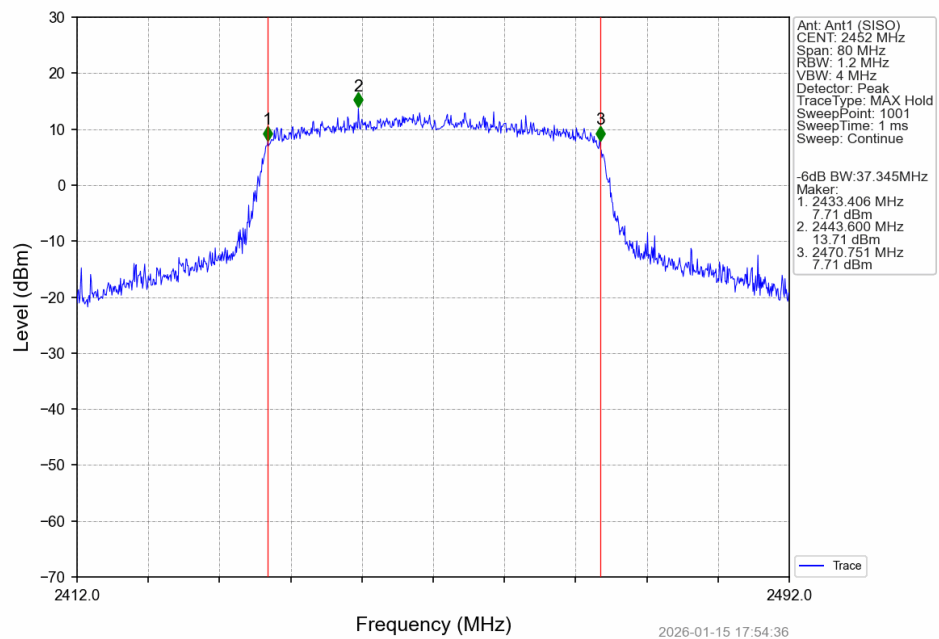
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (SISO) NTNv



802.11ax(HEW40) MCH 2437MHz SU / Ant1 (SISO) NTN



802.11ax(HEW40) HCH 2452MHz SU / Ant1 (SISO) NTN



3. Maximum Conducted Output Power

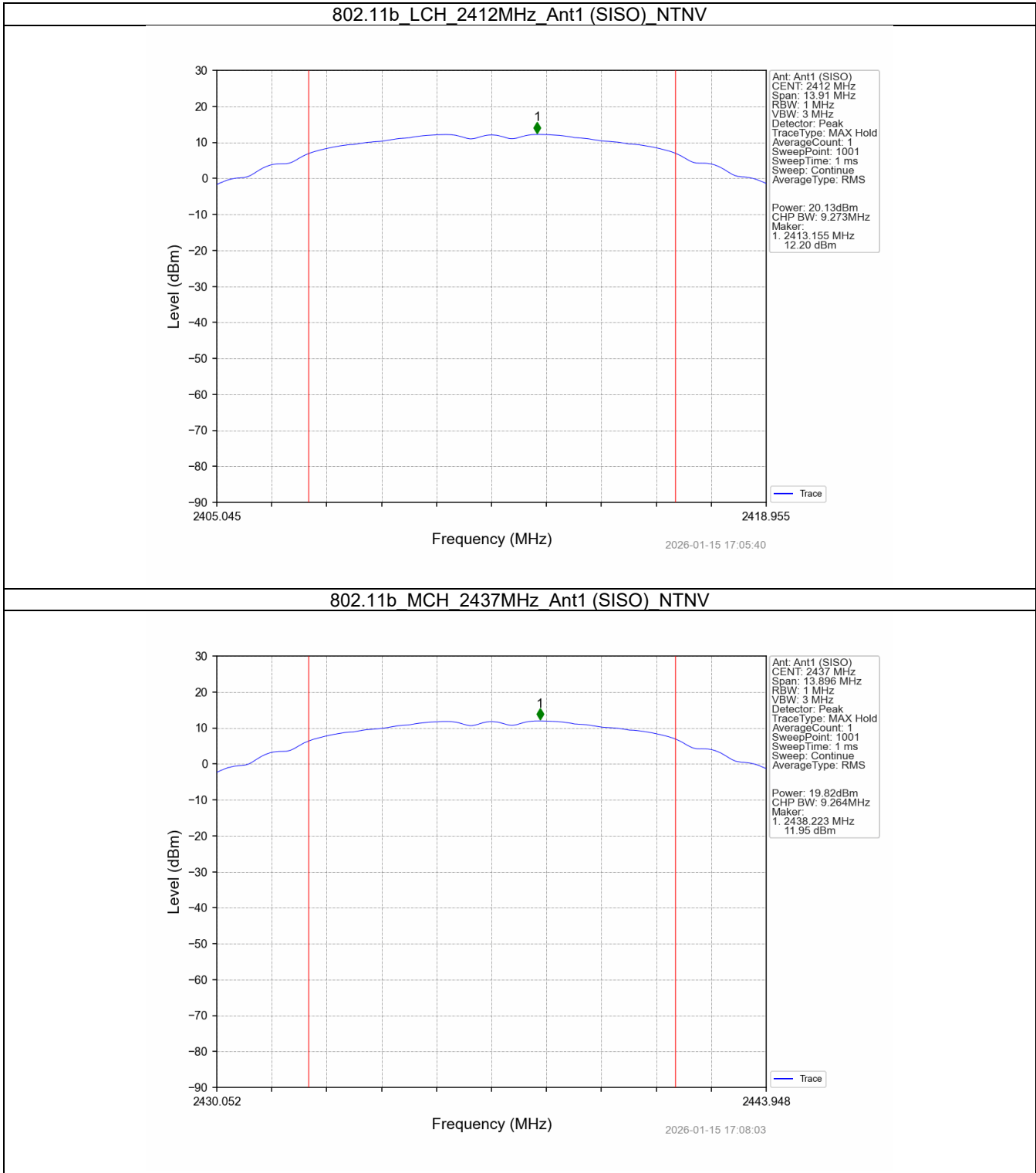
3.1 Test Result

3.1.1 Power

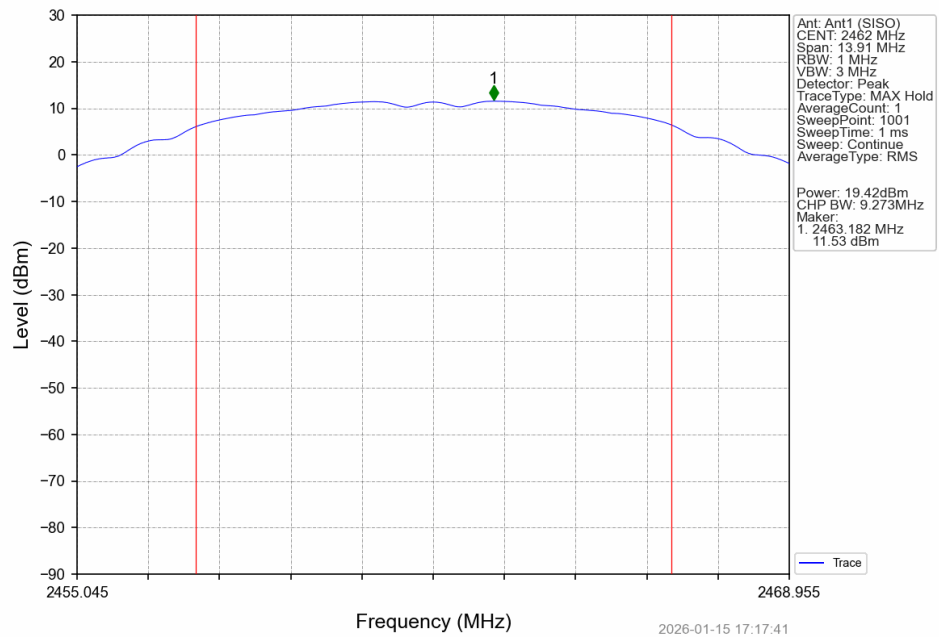
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	20.13	<=30	Pass
		2437	19.82	<=30	Pass
		2462	19.42	<=30	Pass
802.11g	SISO	2412	23.62	<=30	Pass
		2437	23.31	<=30	Pass
		2462	23.49	<=30	Pass
802.11n (HT20)	SISO	2412	24.00	<=30	Pass
		2437	23.62	<=30	Pass
		2462	23.91	<=30	Pass
802.11n (HT40)	SISO	2422	24.44	<=30	Pass
		2437	24.31	<=30	Pass
		2452	24.21	<=30	Pass
802.11ax (HEW20)	SISO	2412	25.01	<=30	Pass
		2437	24.69	<=30	Pass
		2462	24.87	<=30	Pass
802.11ax (HEW40)	SISO	2422	25.09	<=30	Pass
		2437	24.89	<=30	Pass
		2452	24.83	<=30	Pass

3.2 Test Graph

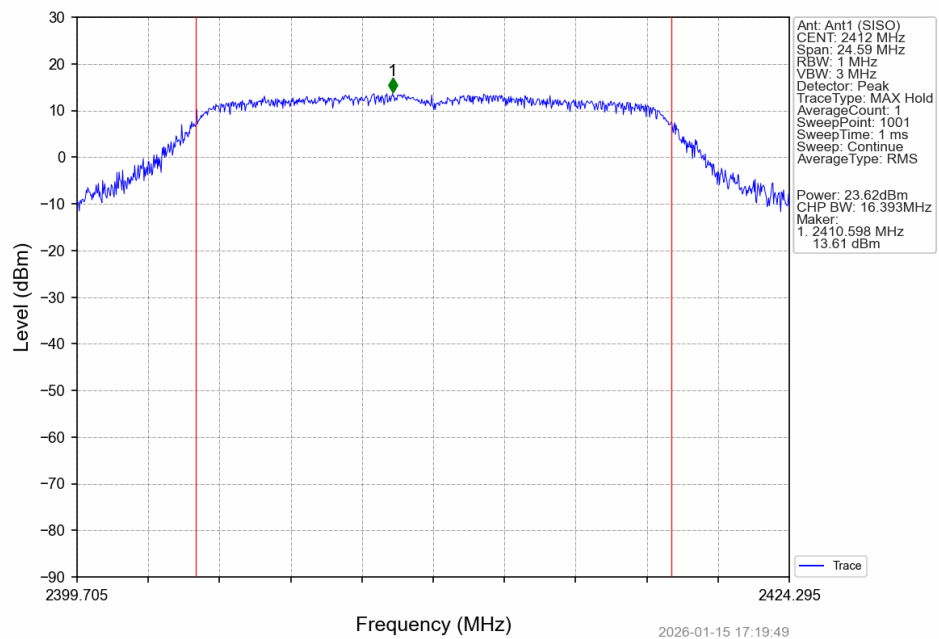
3.2.1 Power



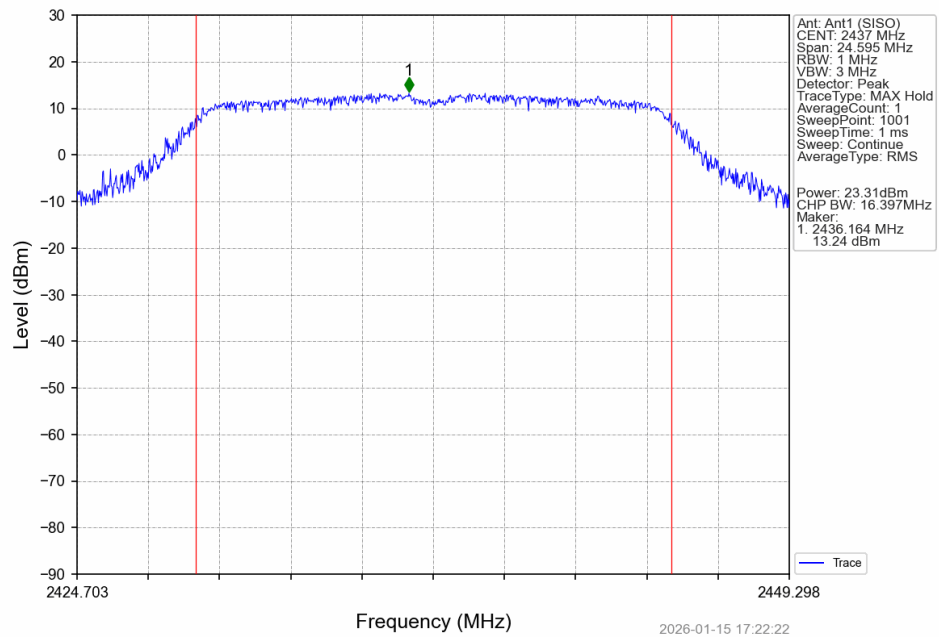
802.11b HCH 2462MHz Ant1 (SISO) NTN



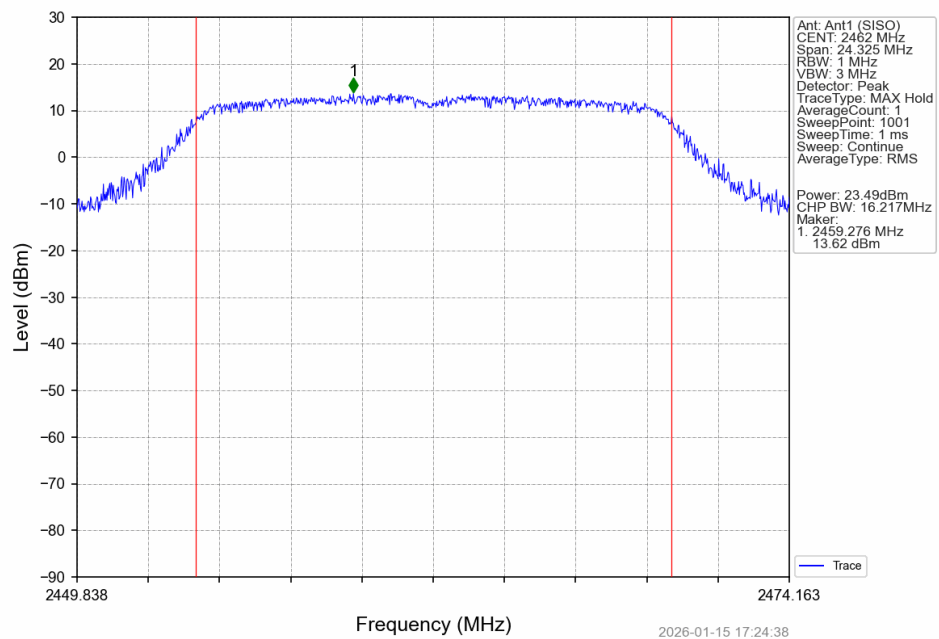
802.11g LCH 2412MHz Ant1 (SISO) NTN



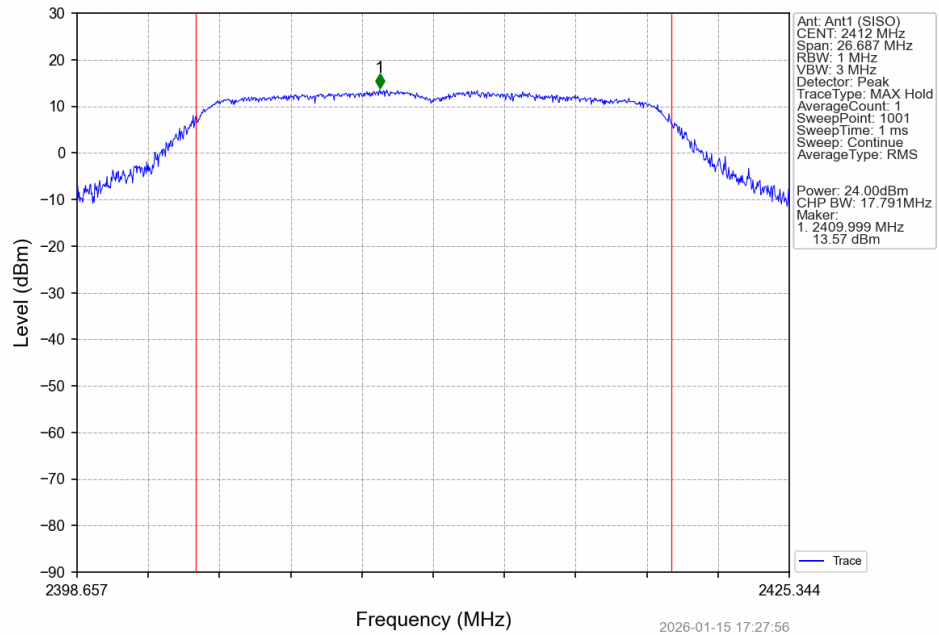
802.11g MCH 2437MHz Ant1 (SISO) NTN



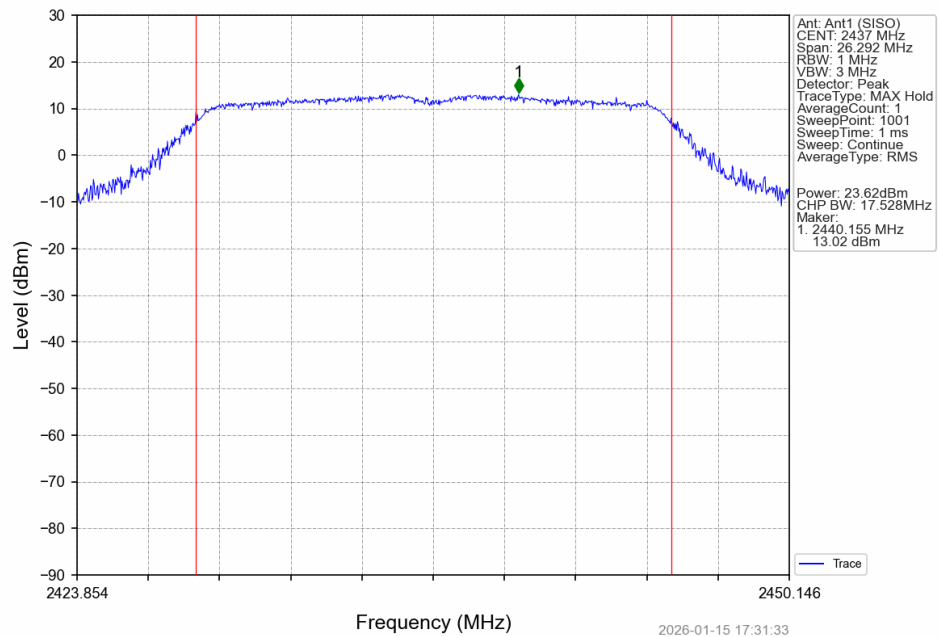
802.11g_HCH_2462MHz_Ant1 (SISO)_NTN



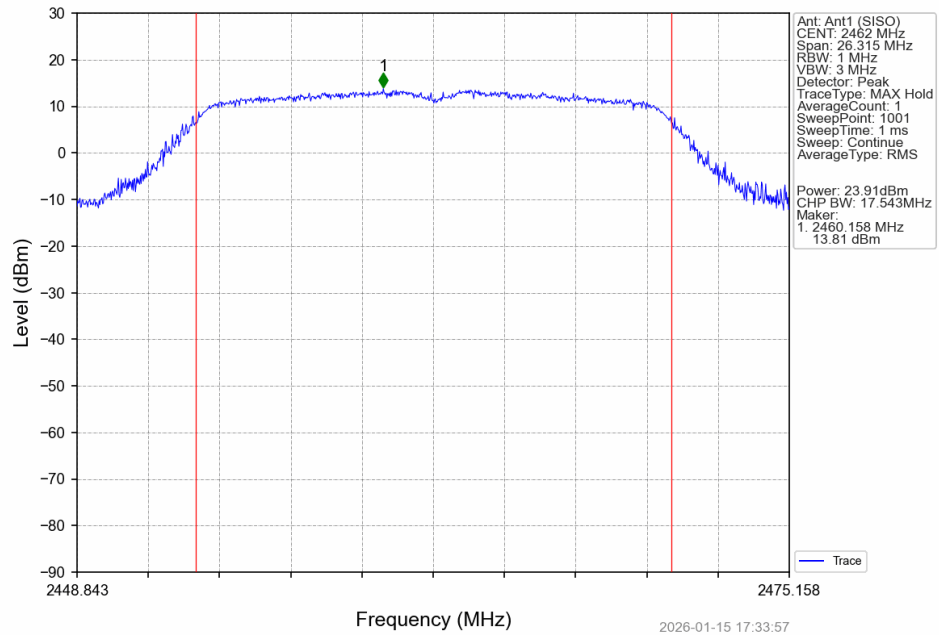
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



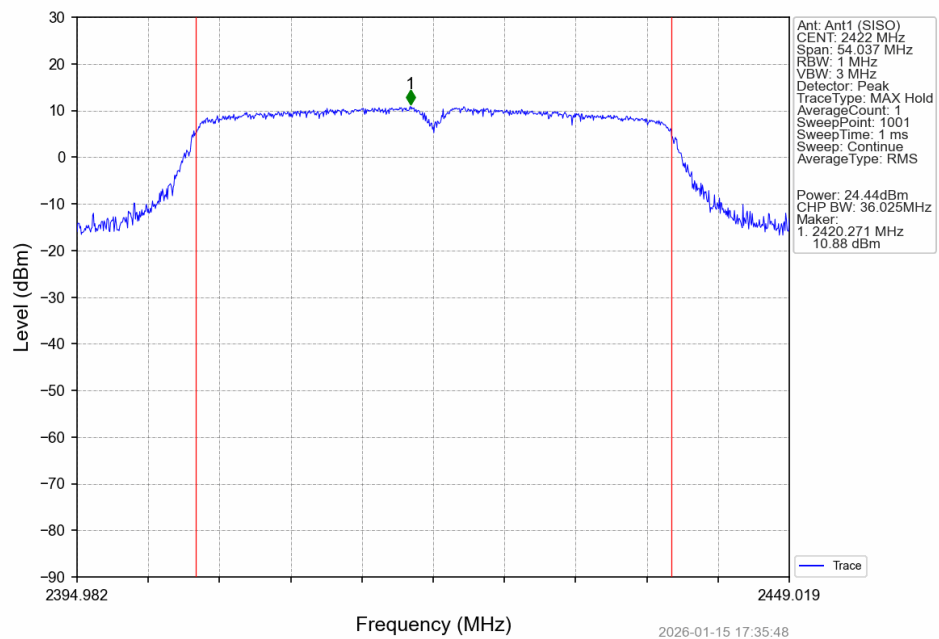
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



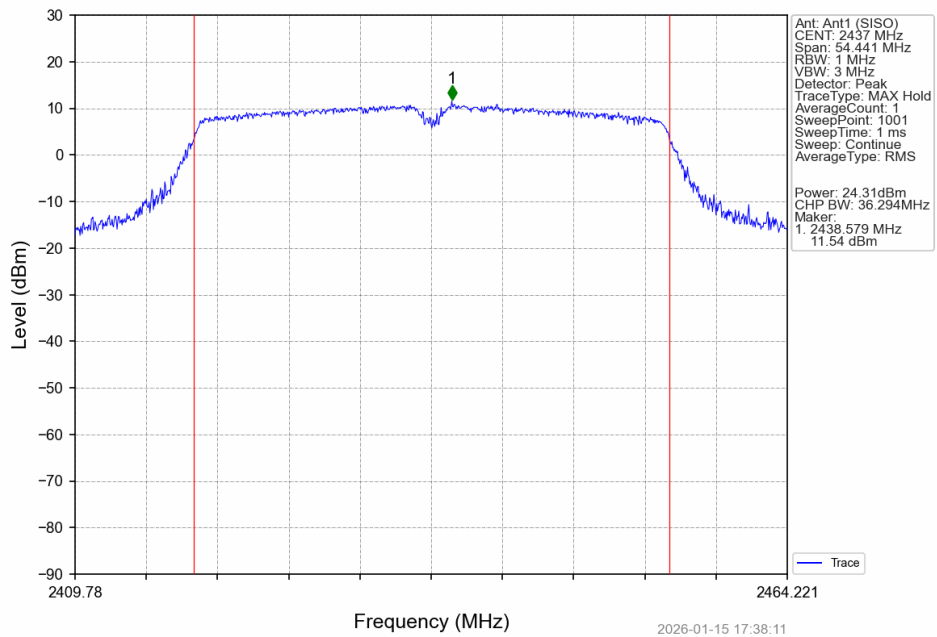
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



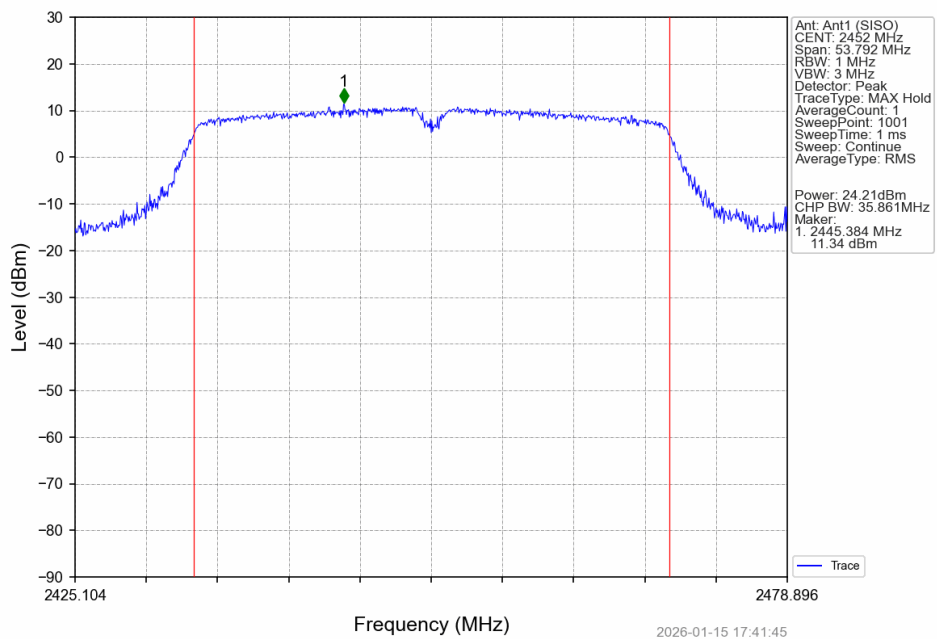
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



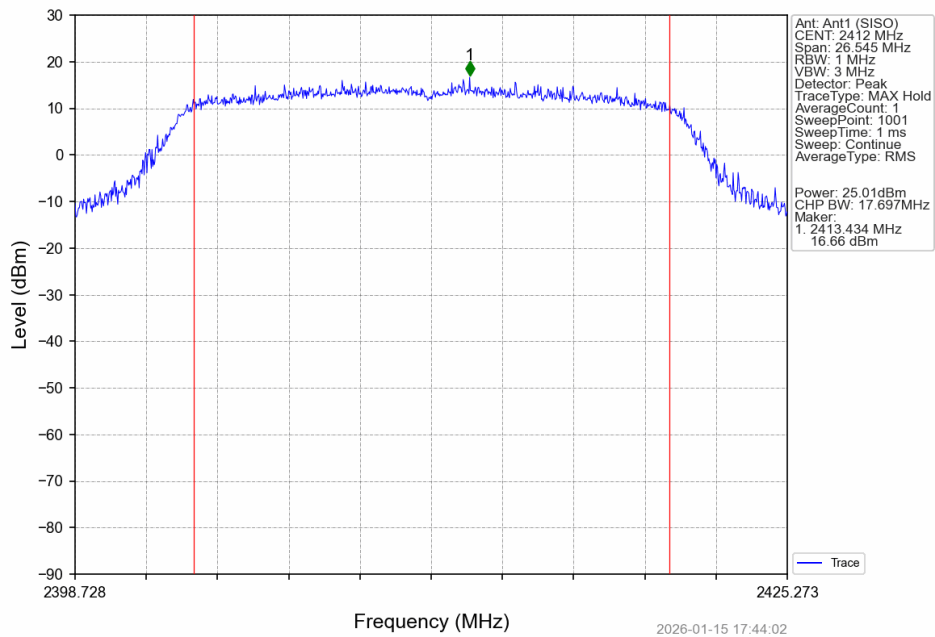
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



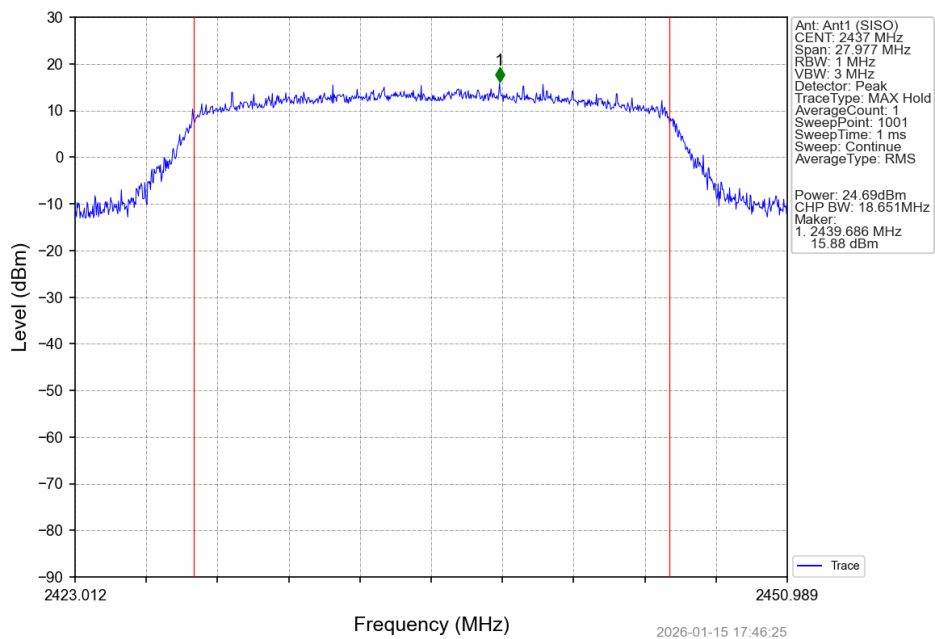
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



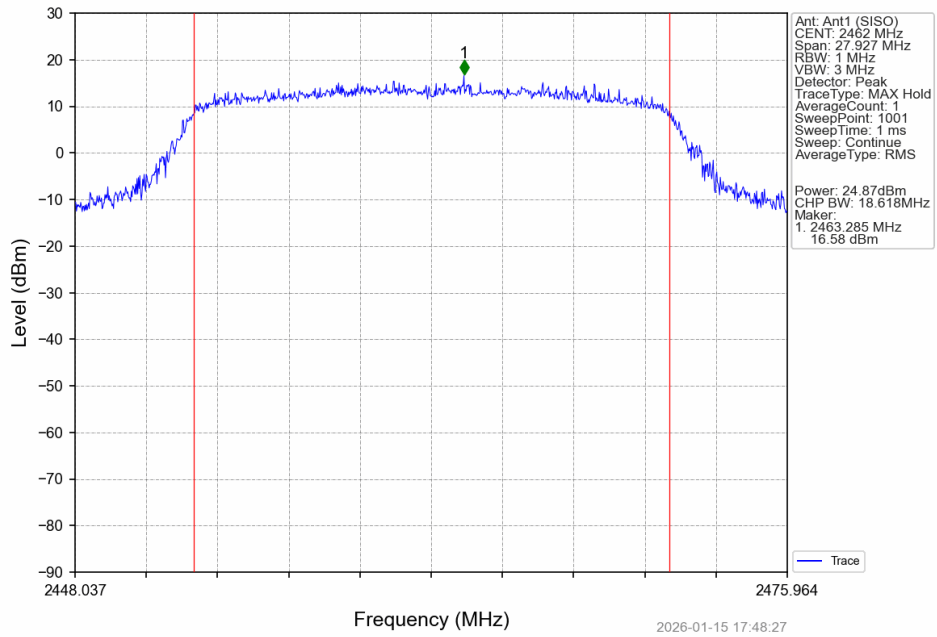
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (SISO) NTN



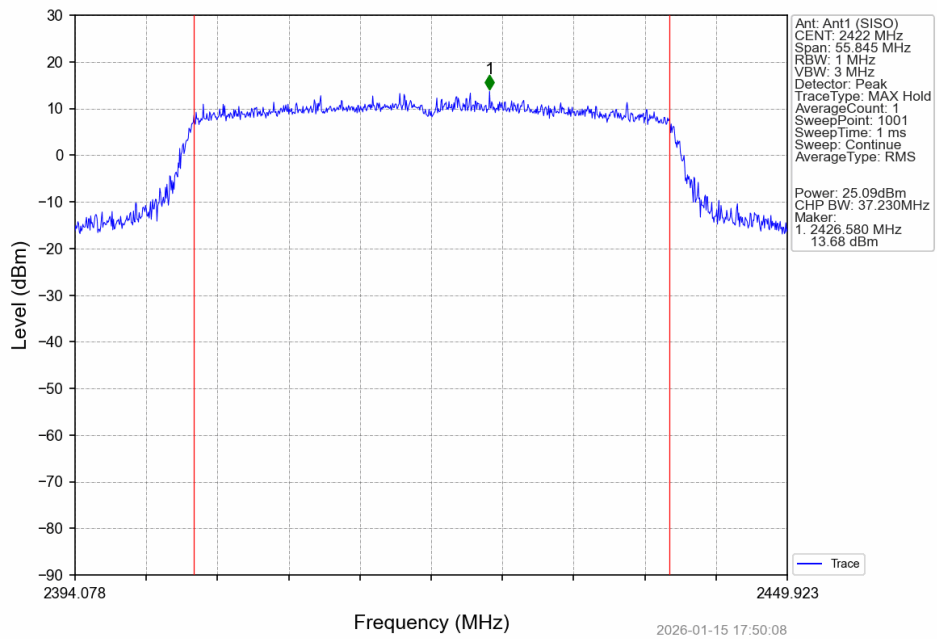
802.11ax(HEW20)_MCH_2437MHz_SU / Ant1 (SISO)_NTNV



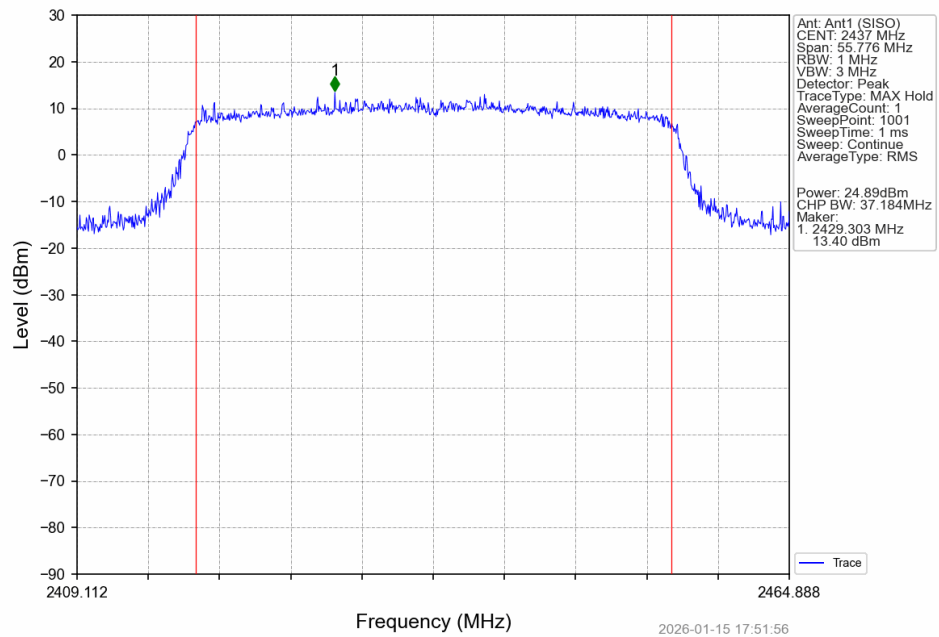
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (SISO) NTNv



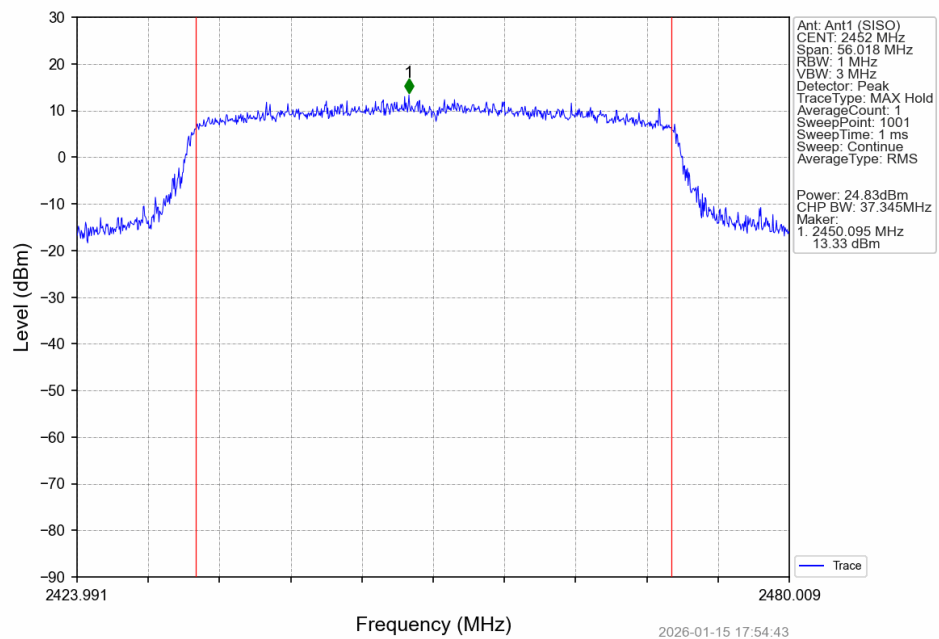
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (SISO) NTNv



802.11ax(HEW40) MCH 2437MHz SU / Ant1 (SISO) NTN



802.11ax(HEW40) HCH 2452MHz SU / Ant1 (SISO) NTN



4. Maximum Power Spectral Density

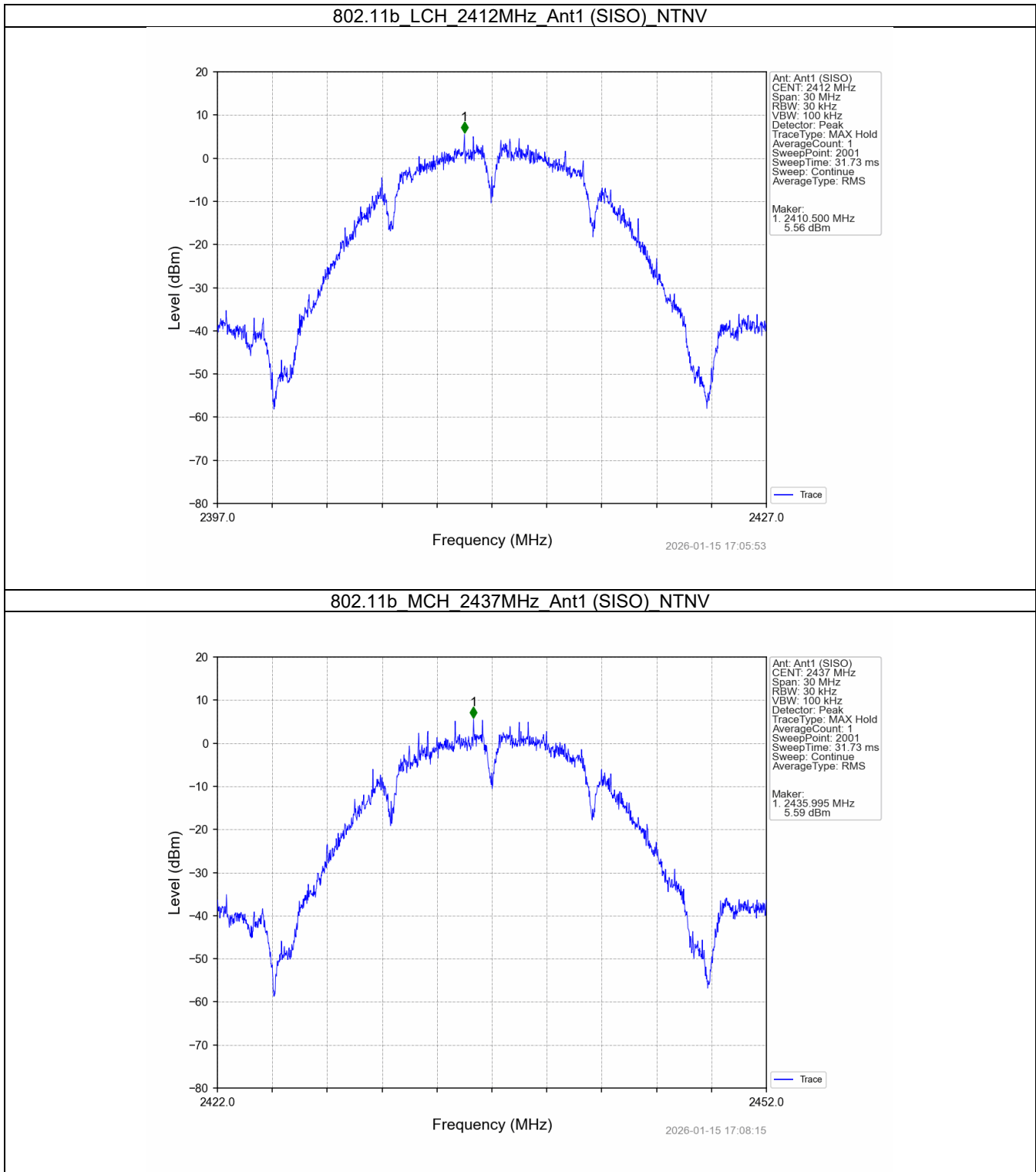
4.1 Test Result

4.1.1 PSD

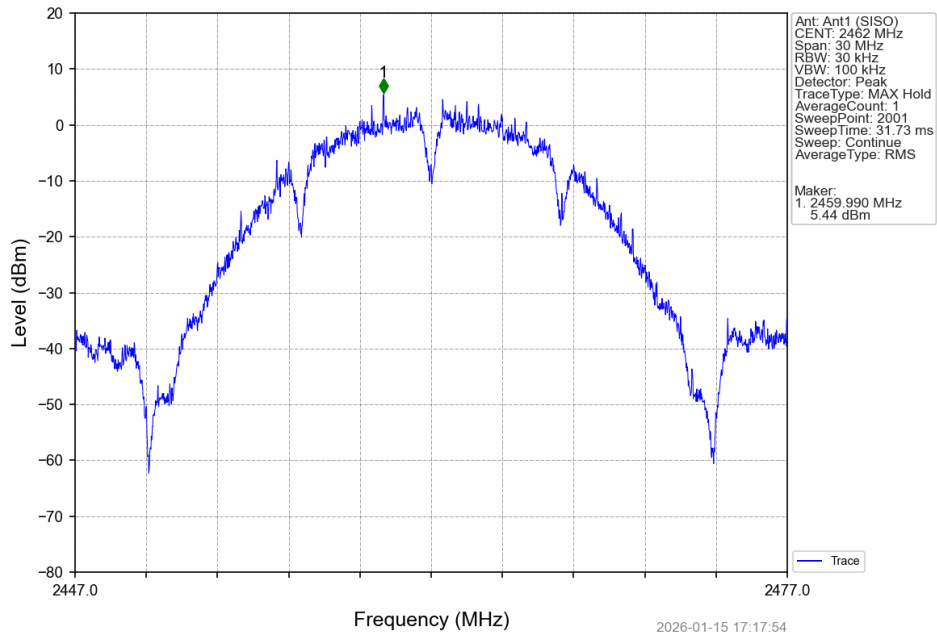
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	5.56	<=8	Pass
		2437	5.59	<=8	Pass
		2462	5.44	<=8	Pass
802.11g	SISO	2412	5.44	<=8	Pass
		2437	4.97	<=8	Pass
		2462	5.44	<=8	Pass
802.11n (HT20)	SISO	2412	4.93	<=8	Pass
		2437	5.19	<=8	Pass
		2462	5.28	<=8	Pass
802.11n (HT40)	SISO	2422	2.77	<=8	Pass
		2437	2.66	<=8	Pass
		2452	1.71	<=8	Pass
802.11ax (HEW20)	SISO	2412	5.51	<=8	Pass
		2437	5.79	<=8	Pass
		2462	5.35	<=8	Pass
802.11ax (HEW40)	SISO	2422	2.94	<=8	Pass
		2437	3.06	<=8	Pass
		2452	2.58	<=8	Pass

4.2 Test Graph

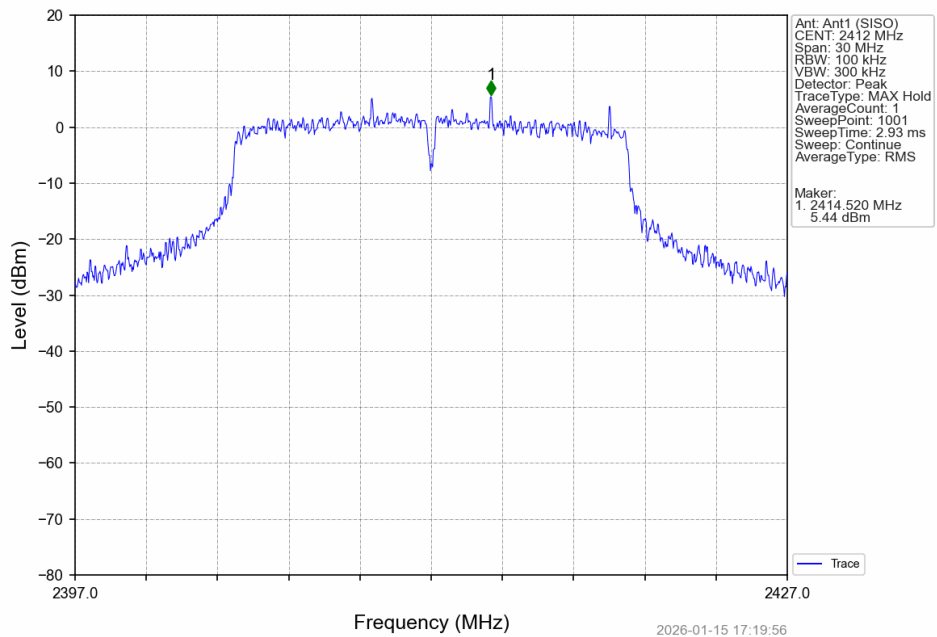
4.2.1 PSD



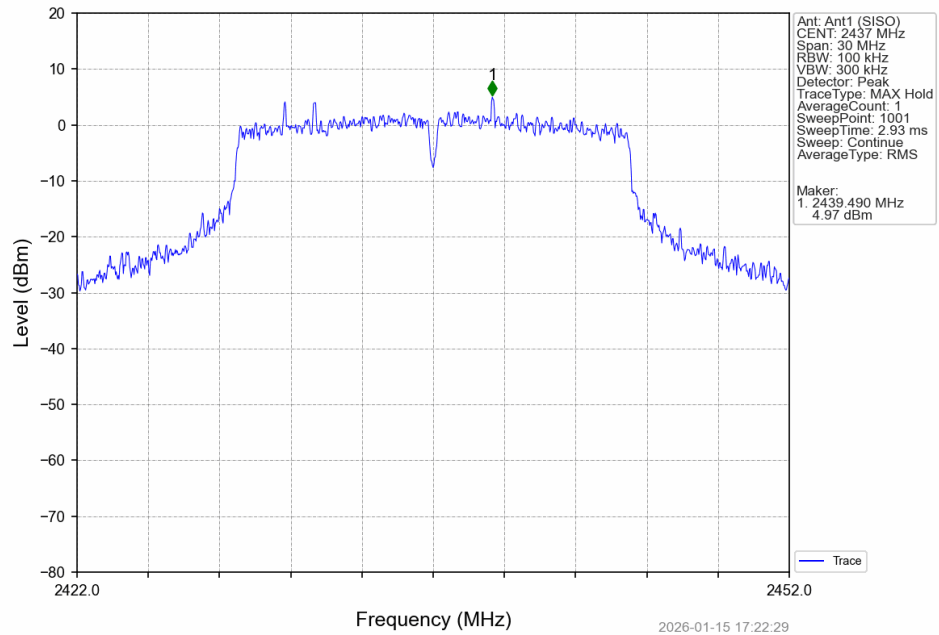
802.11b HCH 2462MHz Ant1 (SISO) NTN



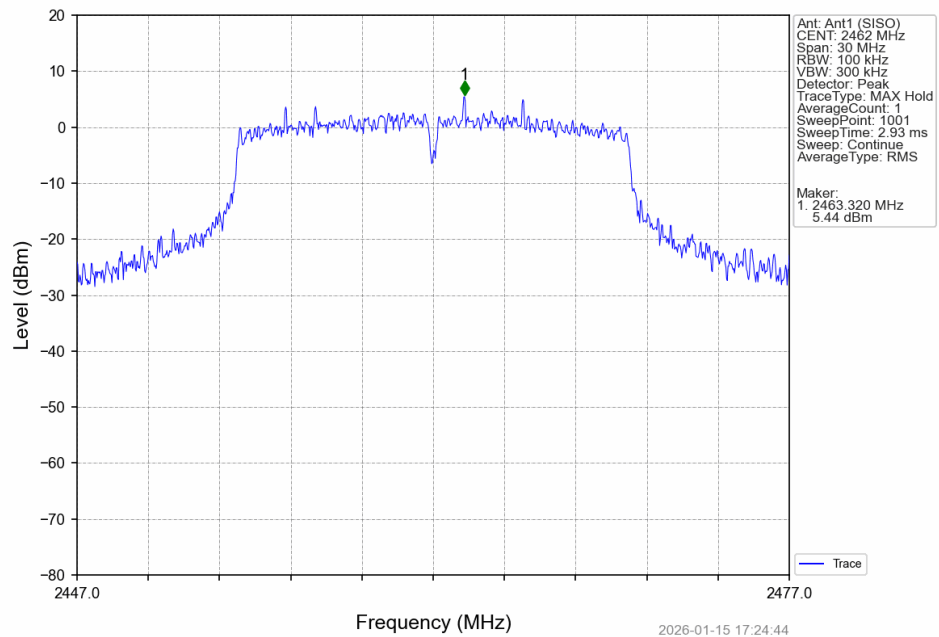
802.11g LCH 2412MHz Ant1 (SISO) NTN



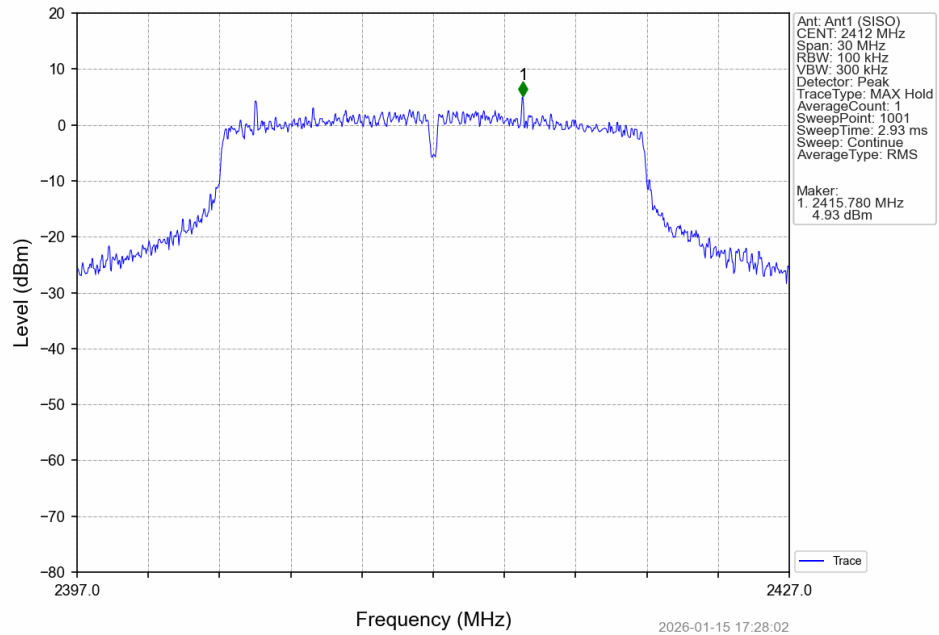
802.11g MCH 2437MHz Ant1 (SISO) NTN



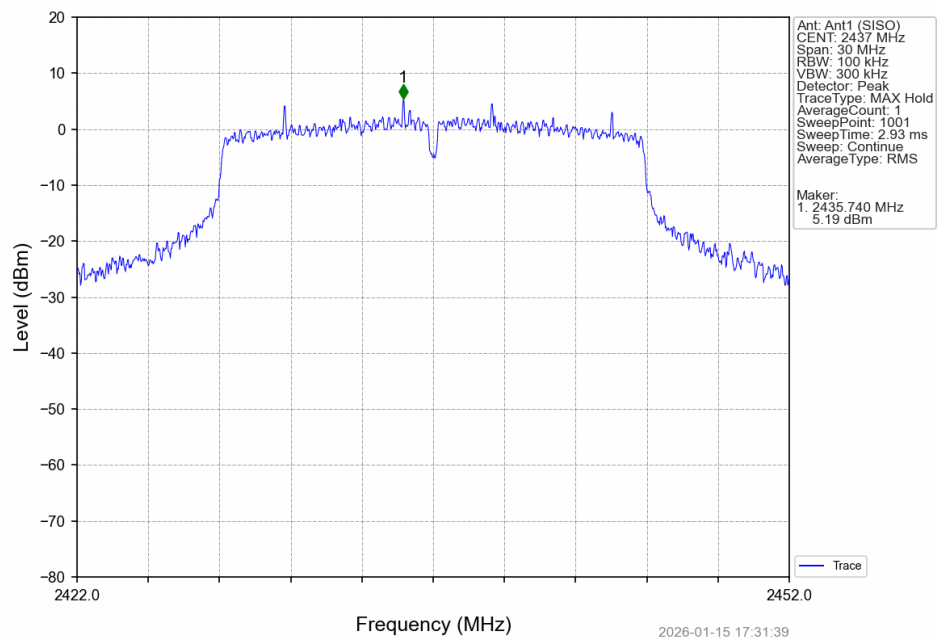
802.11g_HCH_2462MHz_Ant1 (SISO)_NTN



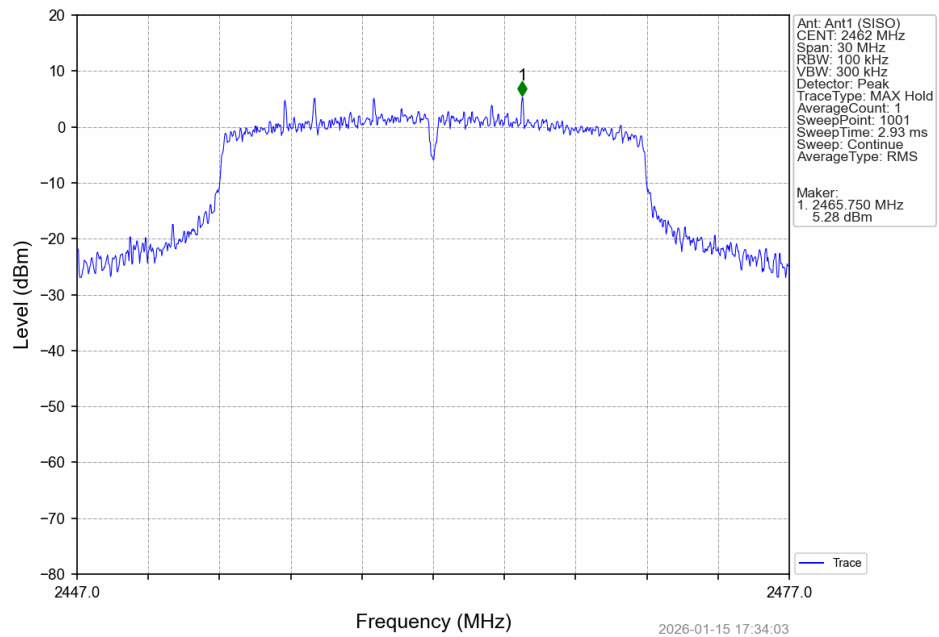
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



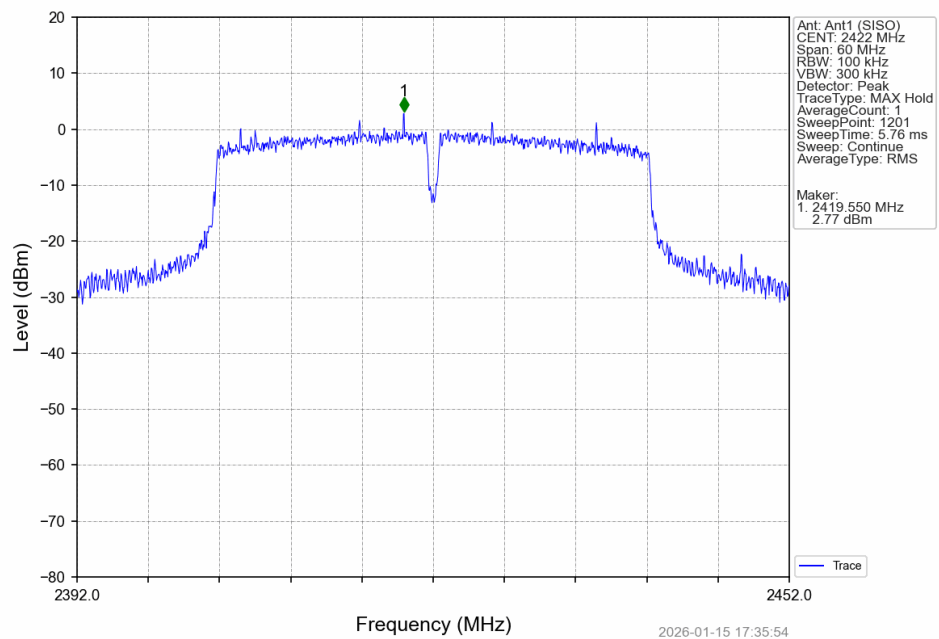
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



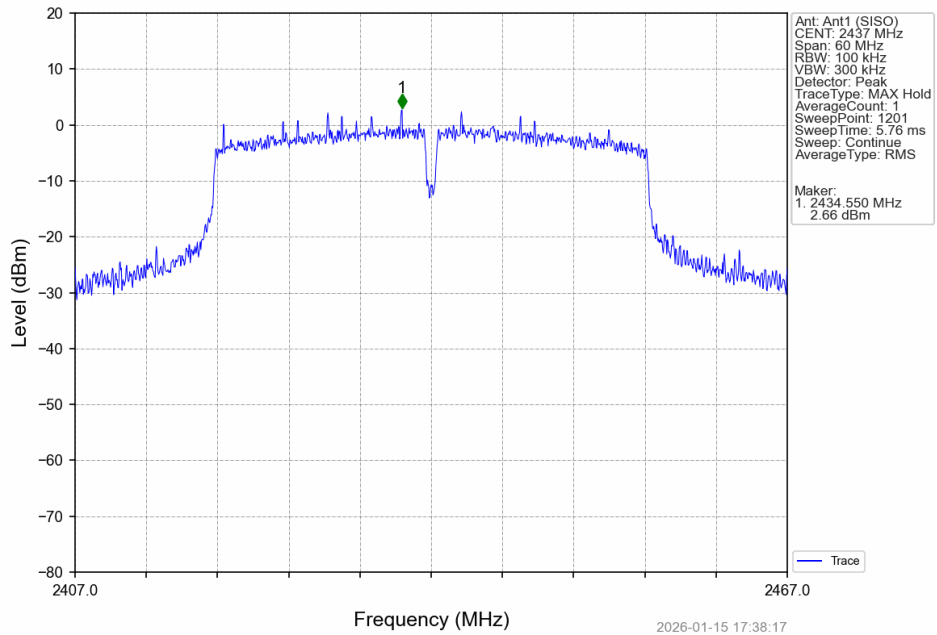
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



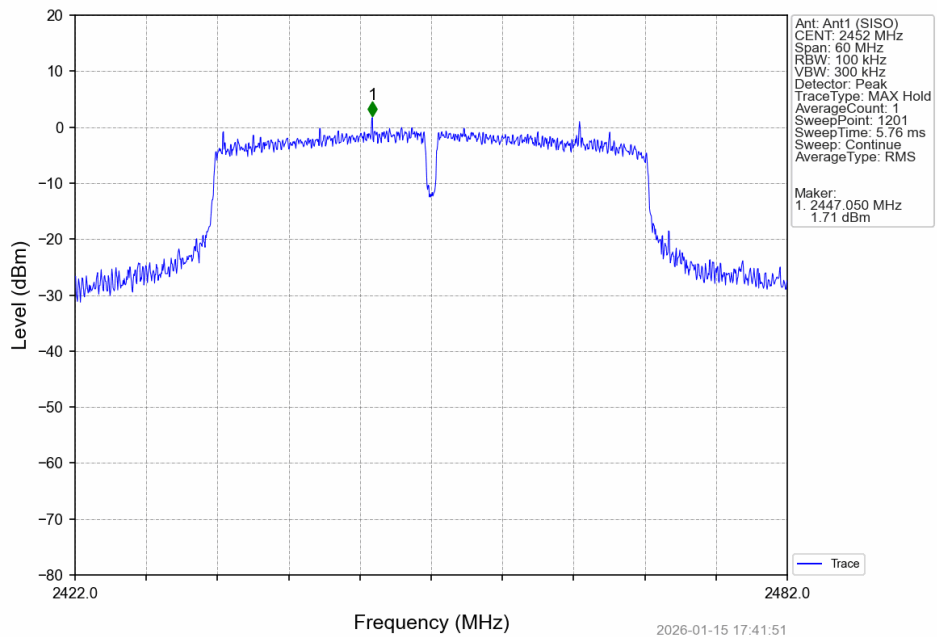
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



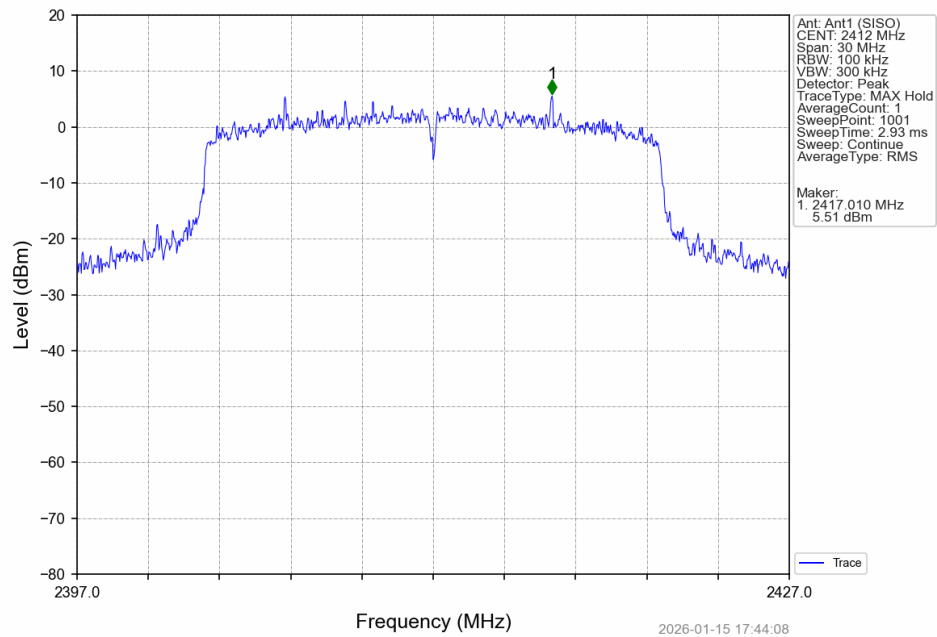
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



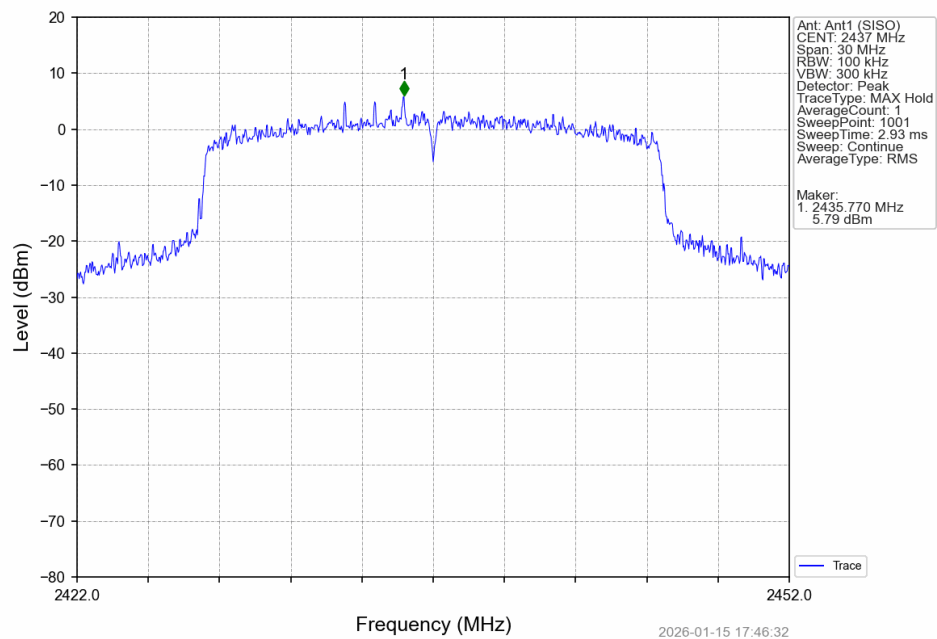
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



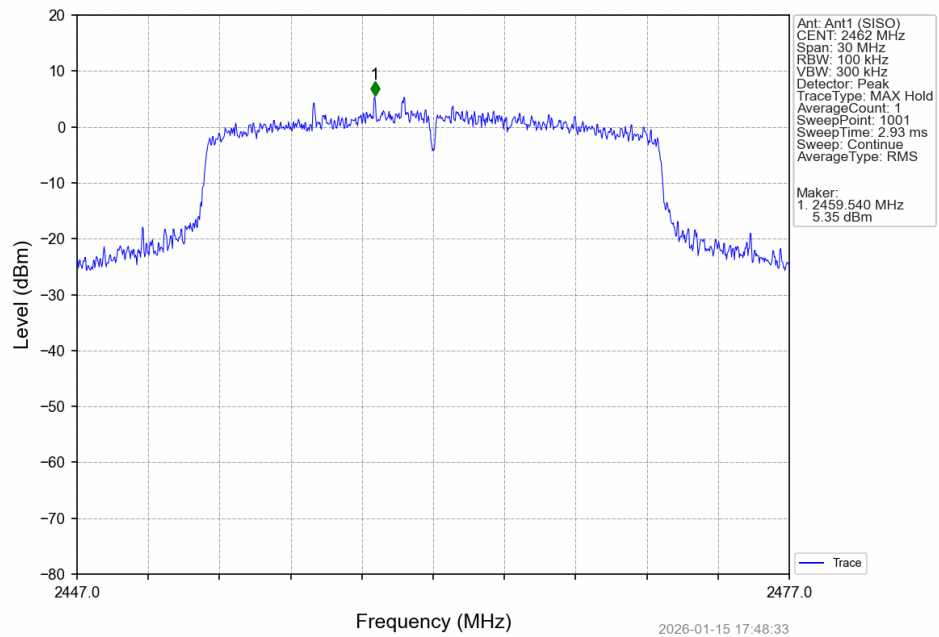
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (SISO) NTN



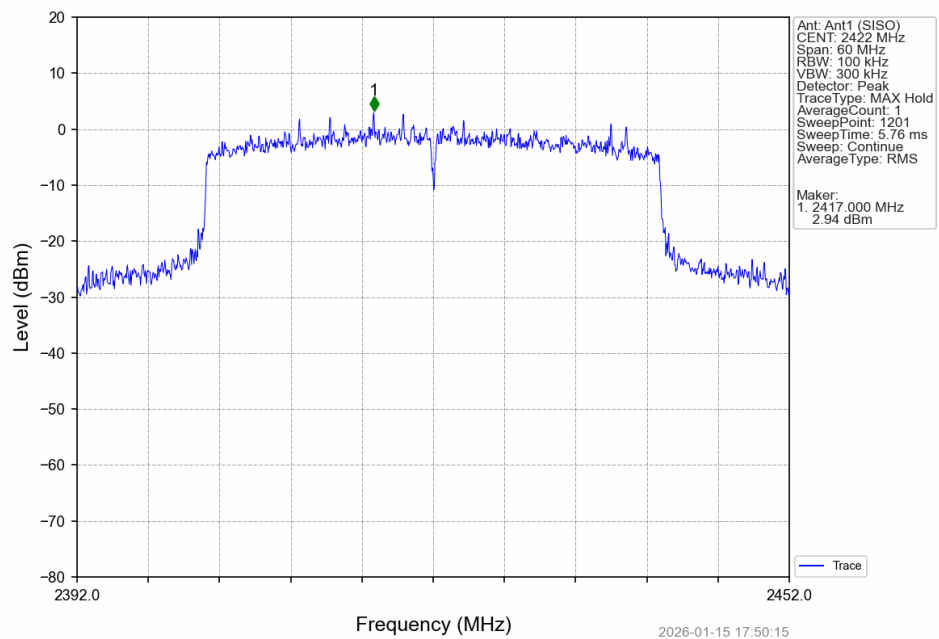
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (SISO)_NTNV



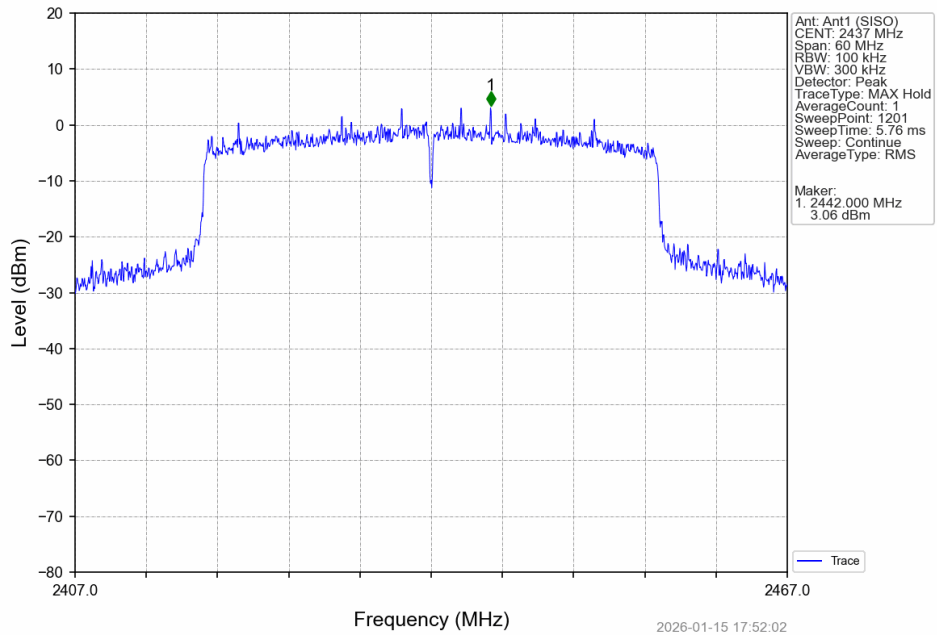
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (SISO) NTNv



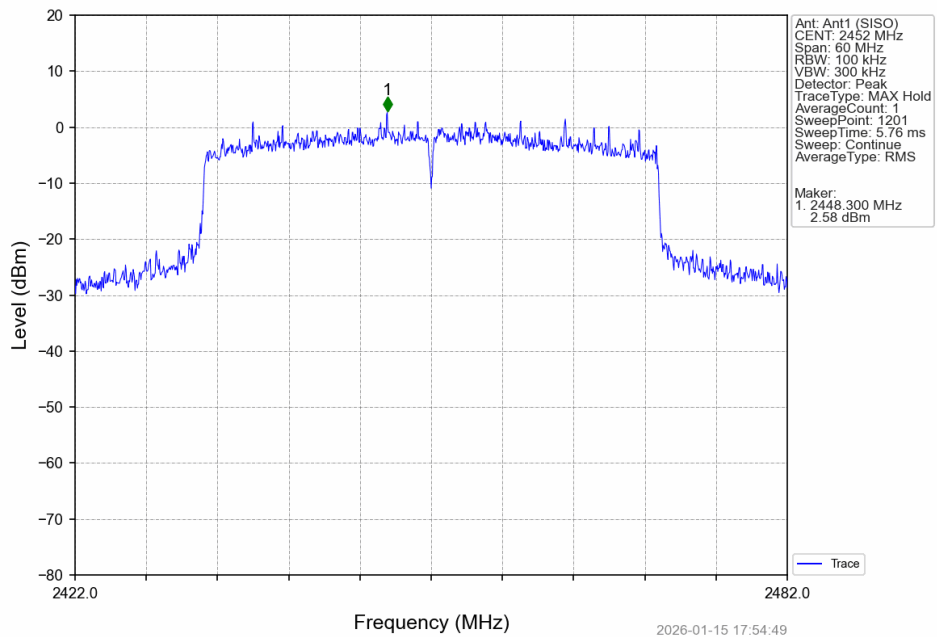
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (SISO) NTNv



802.11ax(HEW40) MCH 2437MHz SU / Ant1 (SISO) NTNv



802.11ax(HEW40) HCH 2452MHz SU / Ant1 (SISO) NTNv



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

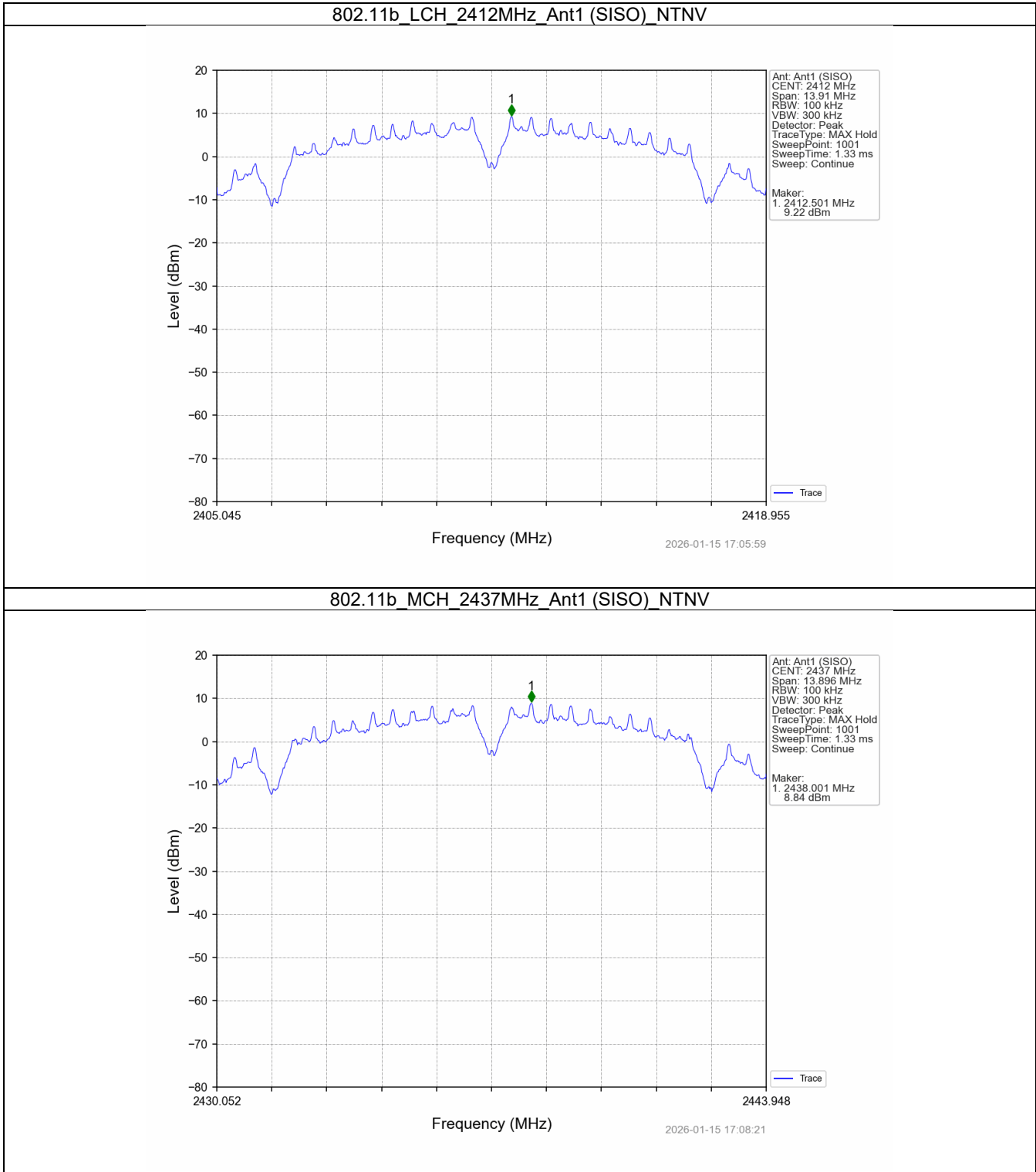
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	9.22
		2437	1	8.84
		2462	1	8.40
802.11g	SISO	2412	1	5.44
		2437	1	5.68
		2462	1	6.24
802.11n (HT20)	SISO	2412	1	6.15
		2437	1	5.16
		2462	1	5.39
802.11n (HT40)	SISO	2422	1	3.00
		2437	1	2.57
		2452	1	2.34
802.11ax (HEW20)	SISO	2412	1	6.37
		2437	1	5.13
		2462	1	5.12
802.11ax (HEW40)	SISO	2422	1	2.69
		2437	1	1.06
		2452	1	0.99
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

5.1.2 CSE

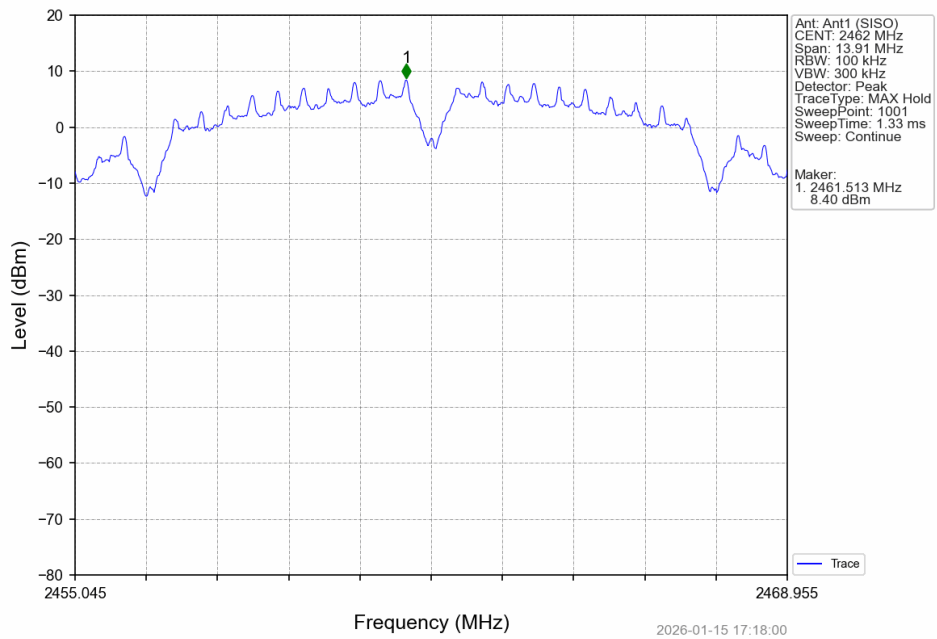
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	9.22	-10.78	Pass
		2437	1	8.84	-11.16	Pass
		2462	1	8.40	-11.60	Pass
802.11g	SISO	2412	1	5.44	-14.56	Pass
		2437	1	5.68	-14.32	Pass
		2462	1	6.24	-13.76	Pass
802.11n (HT20)	SISO	2412	1	6.15	-13.85	Pass
		2437	1	5.16	-14.84	Pass
		2462	1	5.39	-14.61	Pass
802.11n (HT40)	SISO	2422	1	3.00	-17.00	Pass
		2437	1	2.57	-17.43	Pass
		2452	1	2.34	-17.66	Pass
802.11ax (HEW20)	SISO	2412	1	6.37	-13.63	Pass
		2437	1	5.13	-14.87	Pass
		2462	1	5.12	-14.88	Pass
802.11ax (HEW40)	SISO	2422	1	2.69	-17.31	Pass
		2437	1	1.06	-18.94	Pass
		2452	1	0.99	-19.01	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

5.2 Test Graph

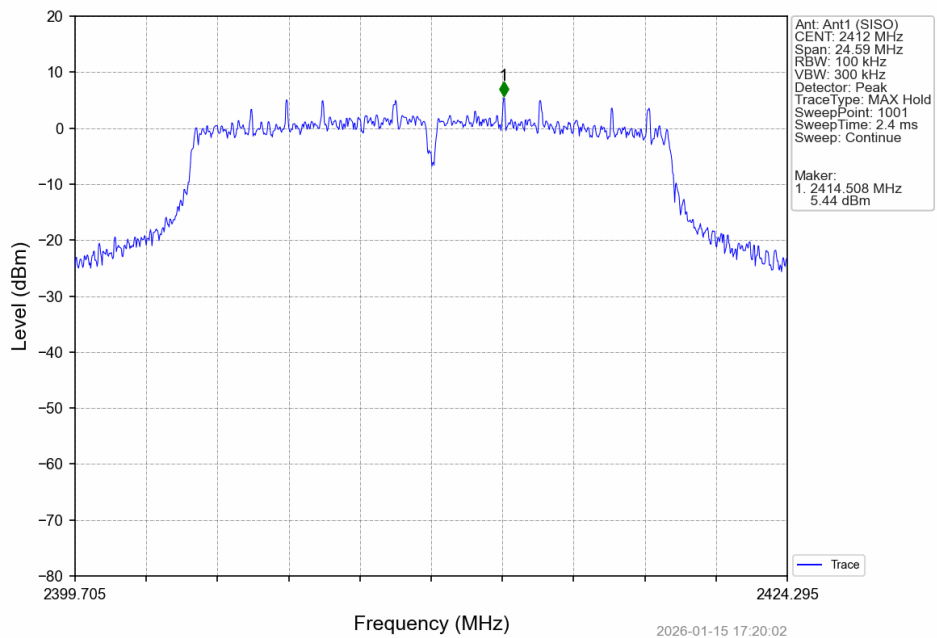
5.2.1 Ref



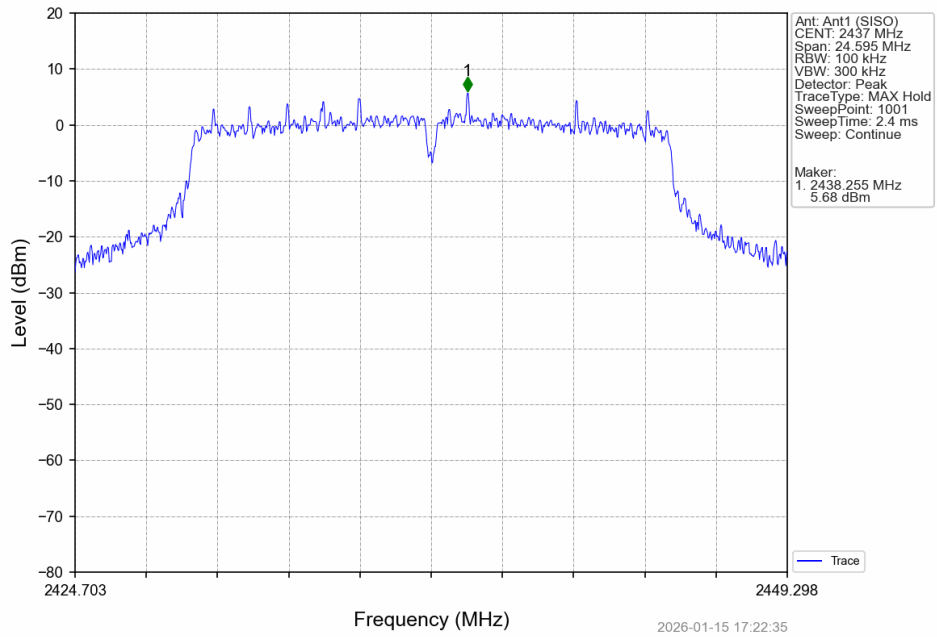
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



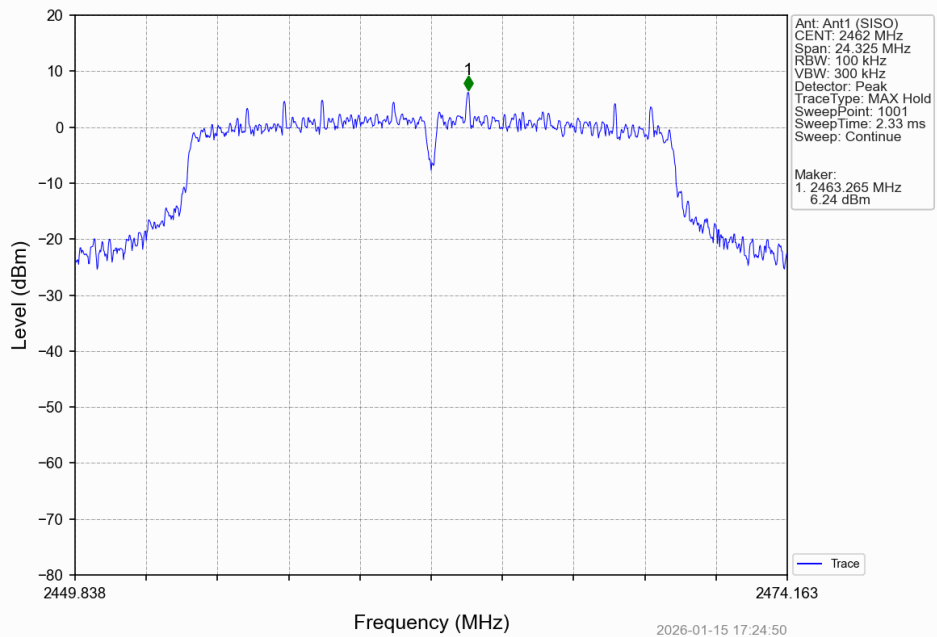
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



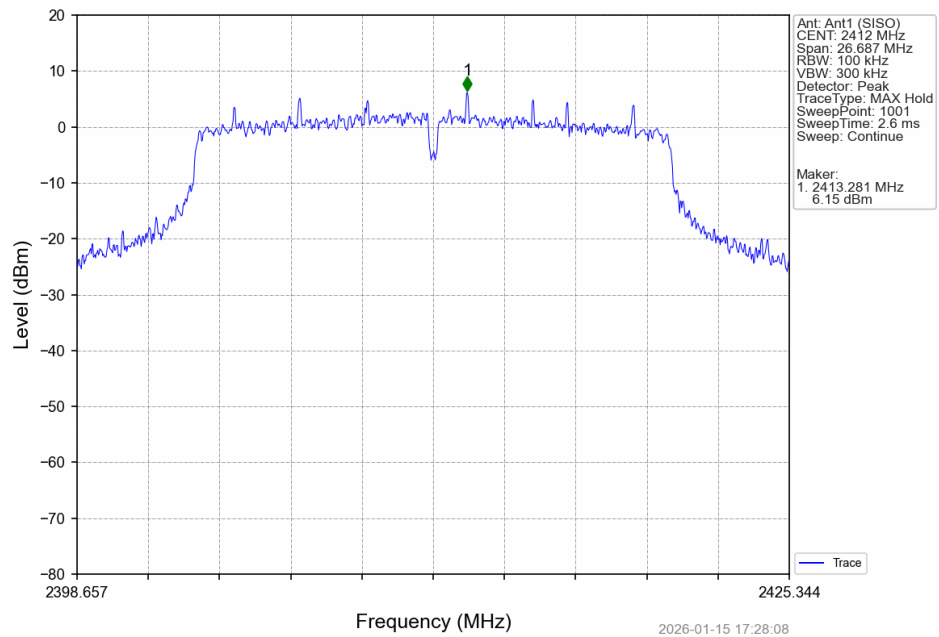
802.11g MCH 2437MHz Ant1 (SISO) NTN



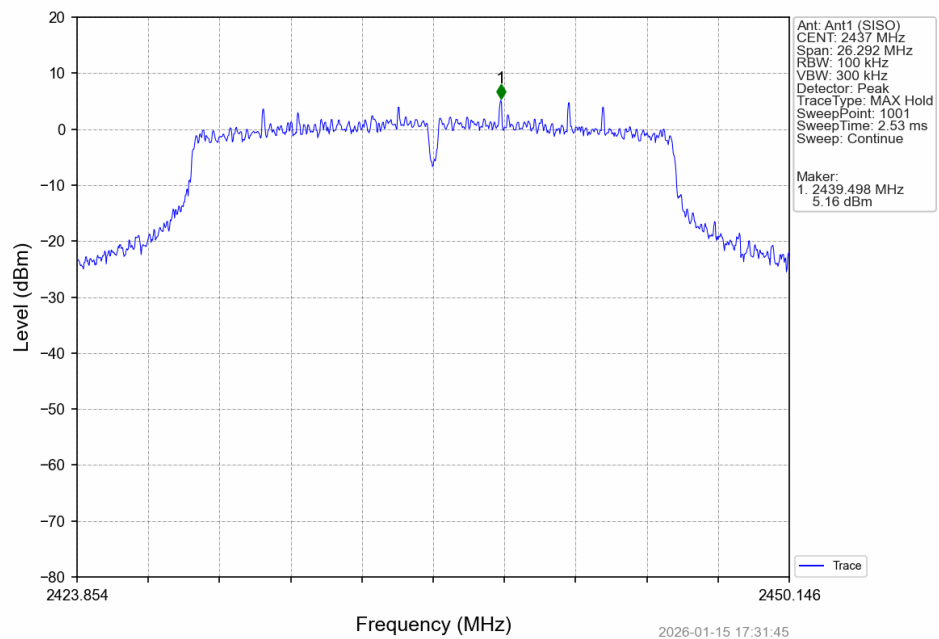
802.11g_HCH_2462MHz_Ant1 (SISO)_NTN



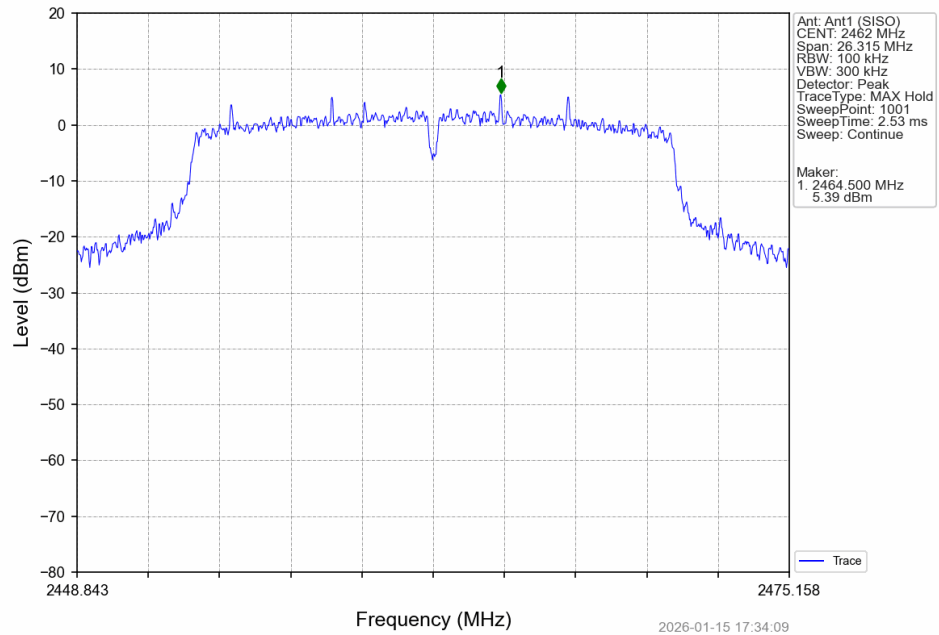
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



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



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



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

