

Appendix RF Test Data for BLE

Company: : Shenzhen Snail SupplyChain Co., Ltd.

EUT : Smart Body Fat Scale

FCC ID: : 2BWXD-FG2317WB

Model Number : FG2317WB

Report No. : HTT202607584F01

Reviewed By : Heber He

1. Duty Cycle

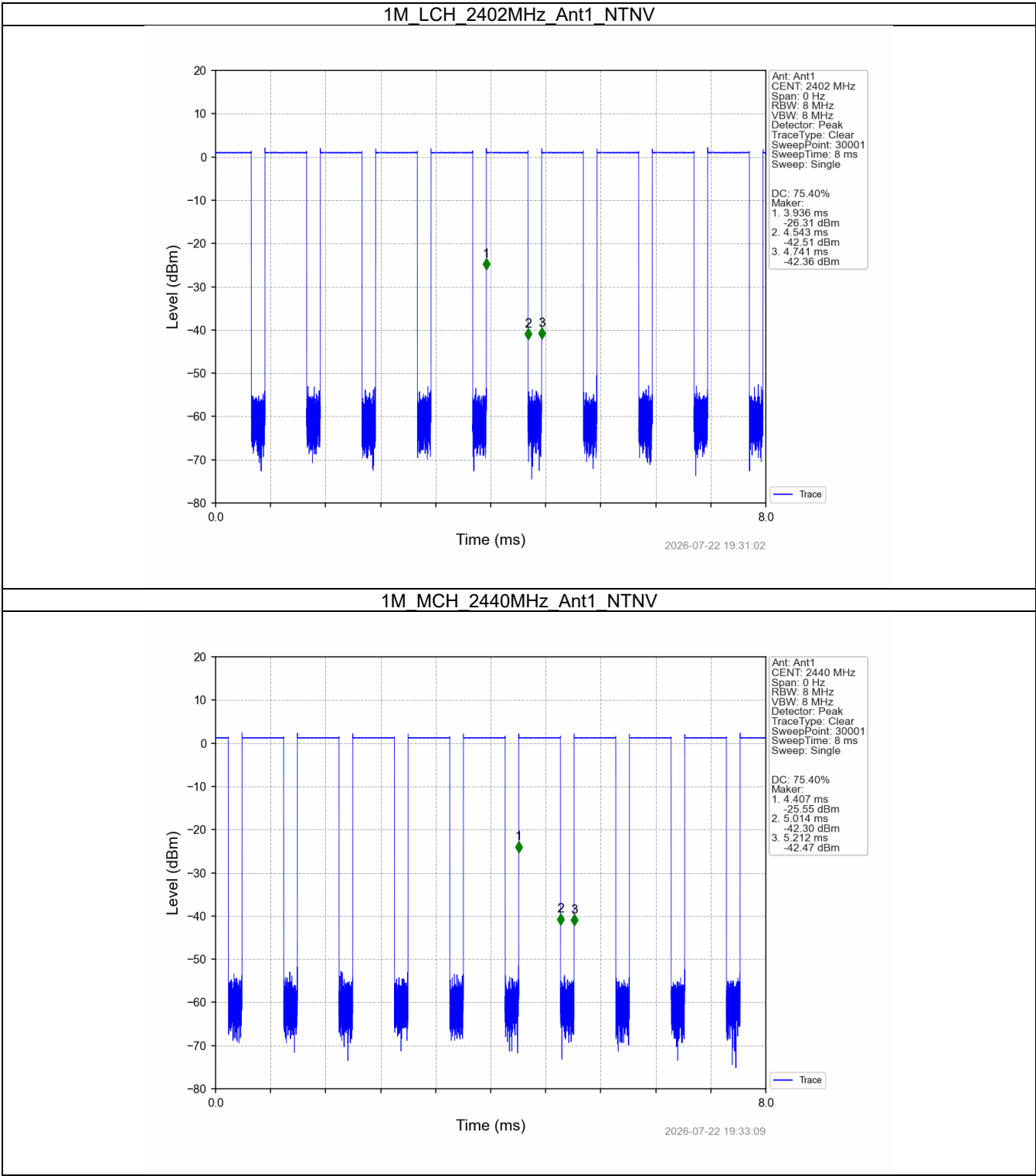
1.1 Test Result

1.1.1 Ant1

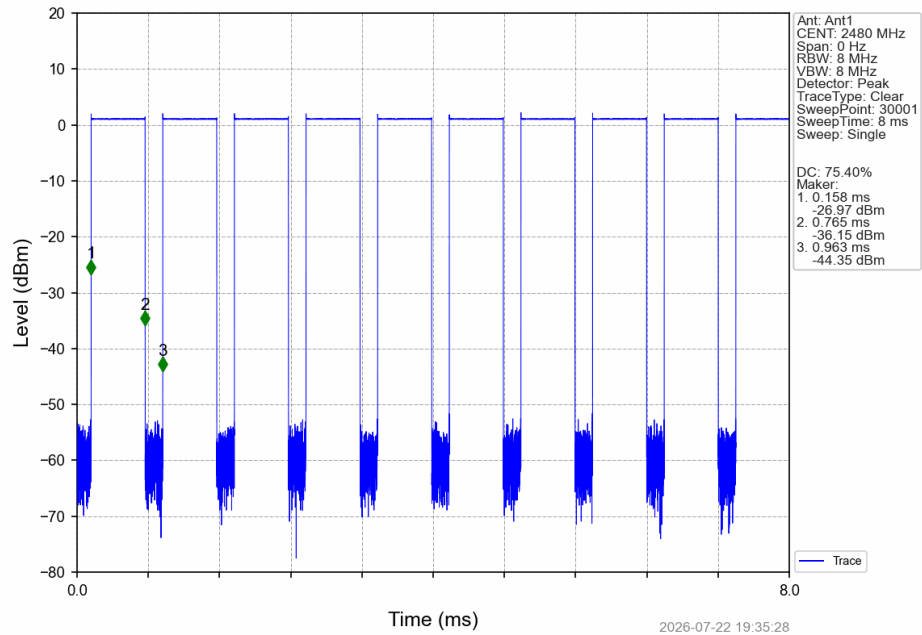
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.607	0.805	75.40	1.23	0.03
		2440	0.607	0.805	75.40	1.23	0.03
		2480	0.607	0.805	75.40	1.23	0.03
2M	SISO	2402	0.310	0.508	61.02	2.15	0.02
		2440	0.310	0.508	61.02	2.15	0.03
		2480	0.311	0.509	61.10	2.14	0.03

1.2 Test Graph

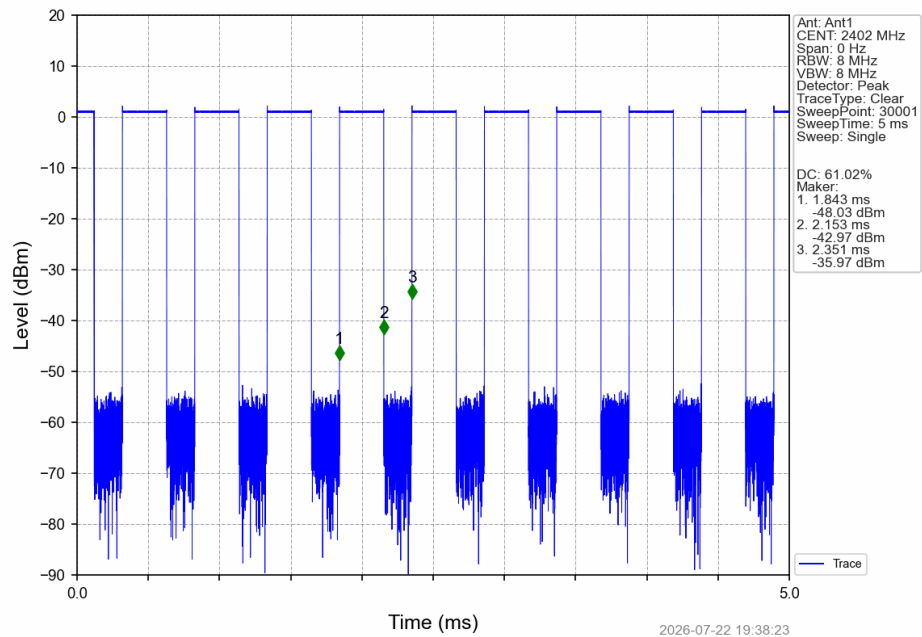
1.2.1 Ant1



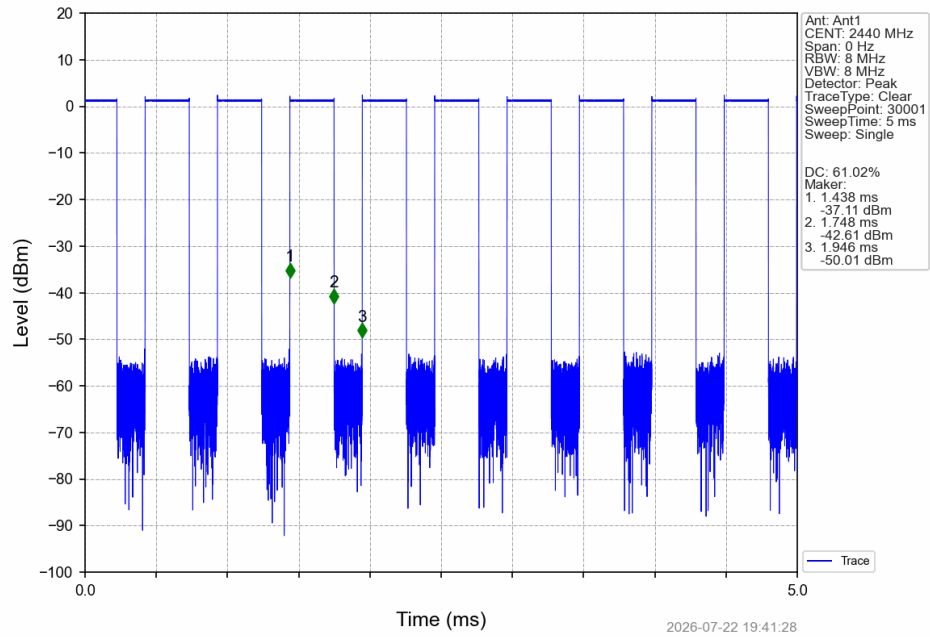
1M_HCH_2480MHz_Ant1_NTNV



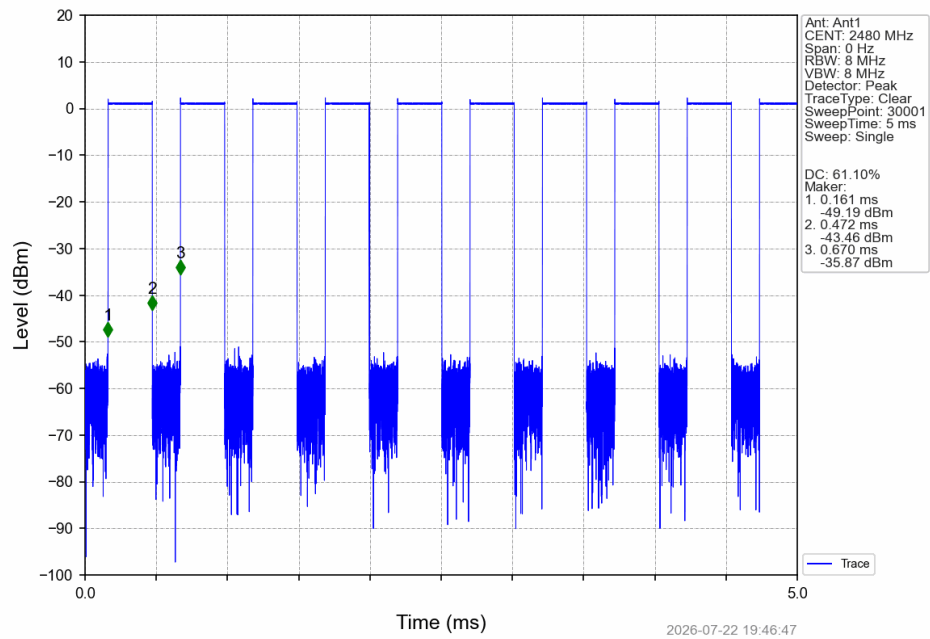
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

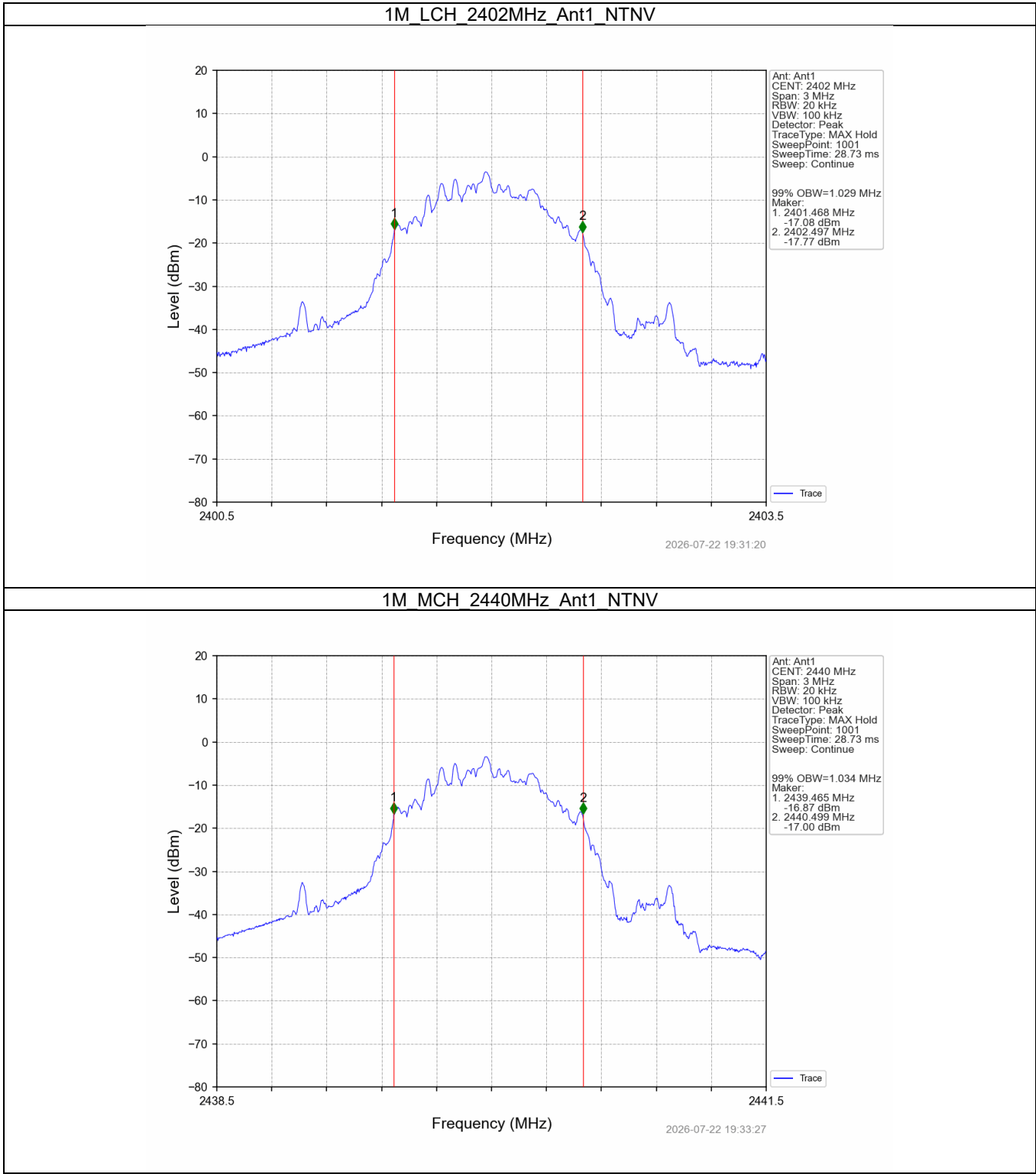
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.029	/	Pass
		2440	1	1.034	/	Pass
		2480	1	1.039	/	Pass
2M	SISO	2402	1	2.044	/	Pass
		2440	1	2.037	/	Pass
		2480	1	2.035	/	Pass

2.1.2 6dB BW

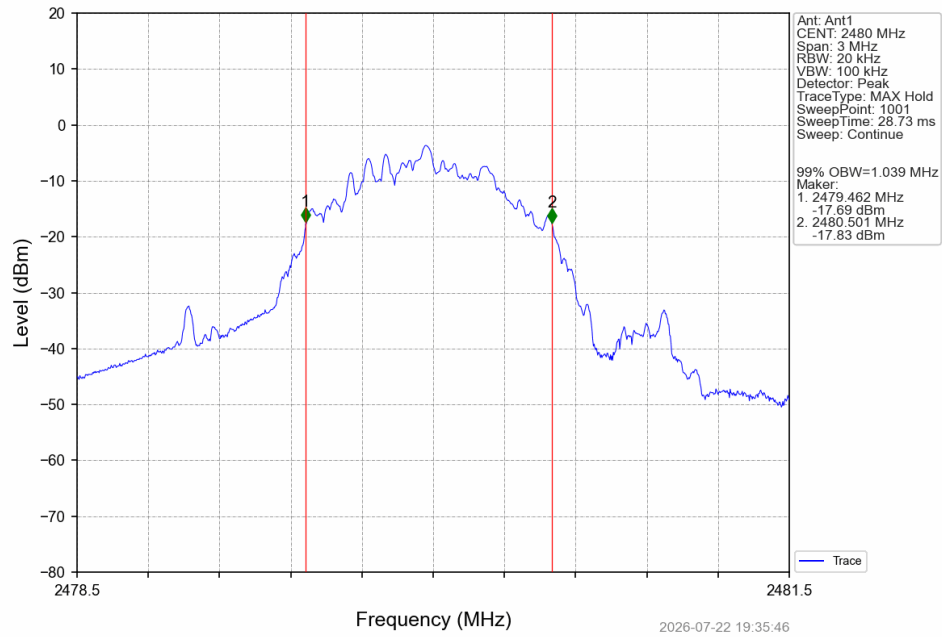
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.674	≥ 0.5	Pass
		2440	1	0.680	≥ 0.5	Pass
		2480	1	0.675	≥ 0.5	Pass
2M	SISO	2402	1	1.188	≥ 0.5	Pass
		2440	1	1.190	≥ 0.5	Pass
		2480	1	1.188	≥ 0.5	Pass

2.2 Test Graph

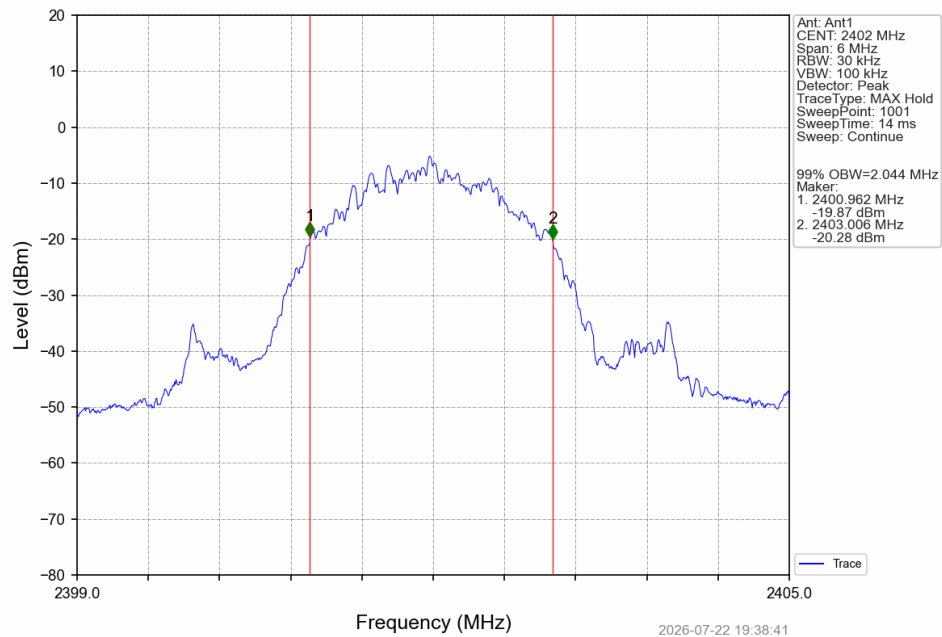
2.2.1 OBW



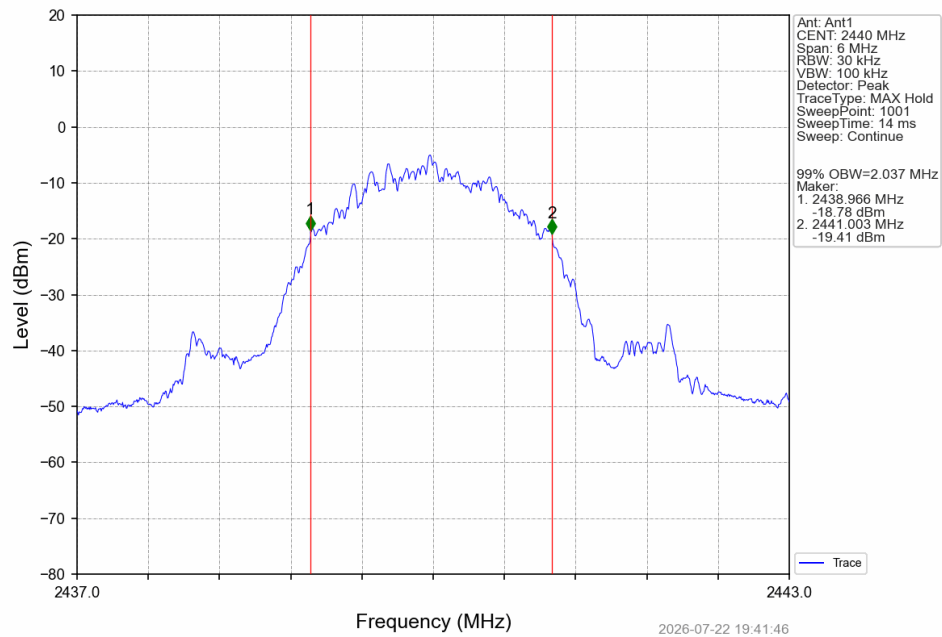
1M_HCH_2480MHz_Ant1_NTNV



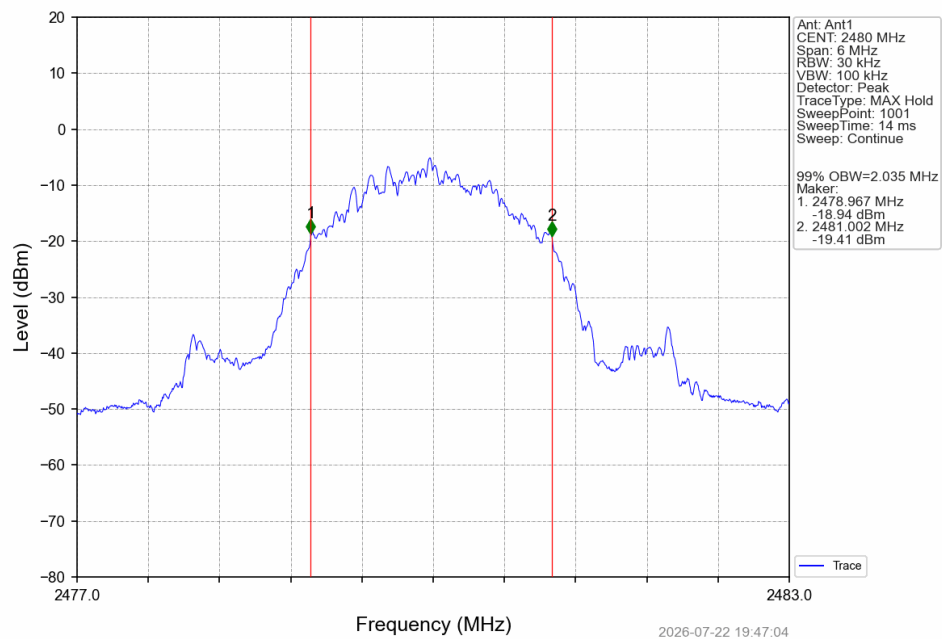
2M_LCH_2402MHz_Ant1_NTNV



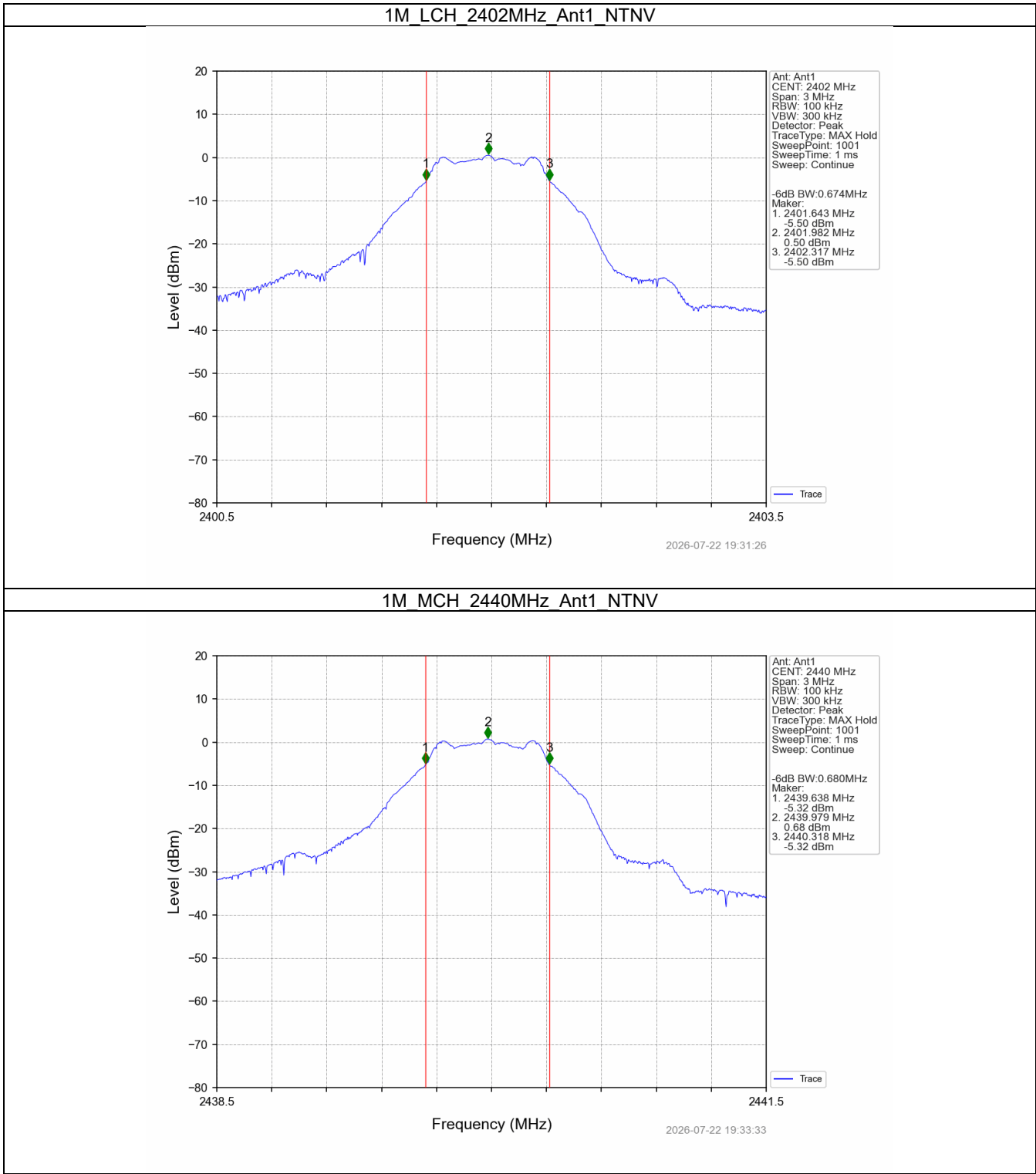
2M_MCH_2440MHz_Ant1_NTNV



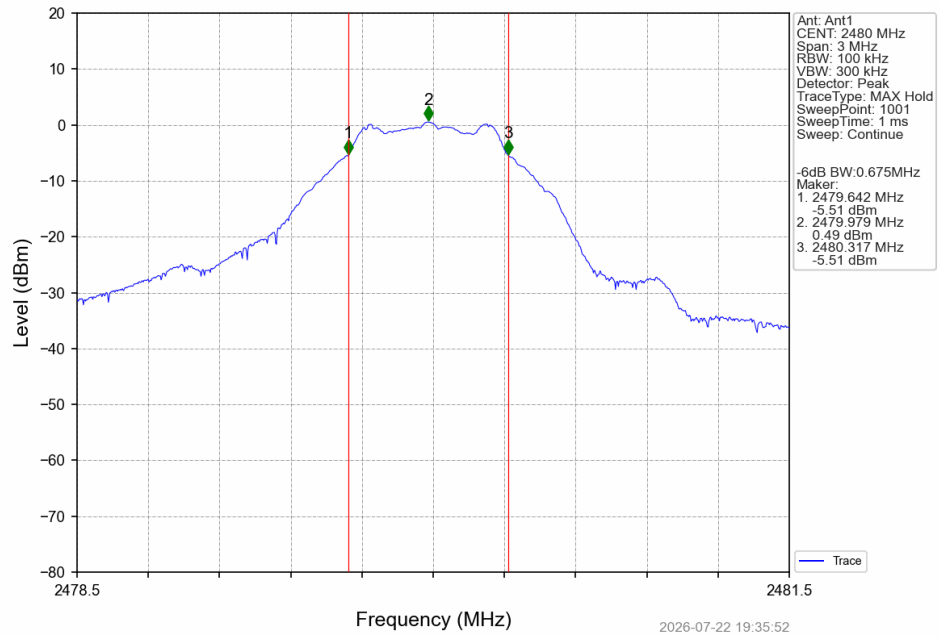
2M_HCH_2480MHz_Ant1_NTNV



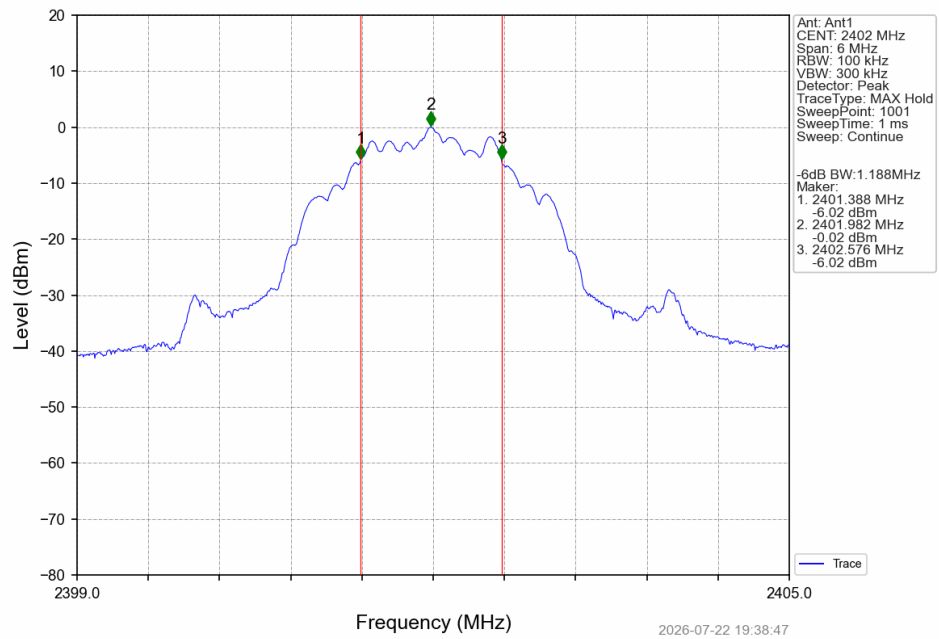
2.2.2 6dB BW



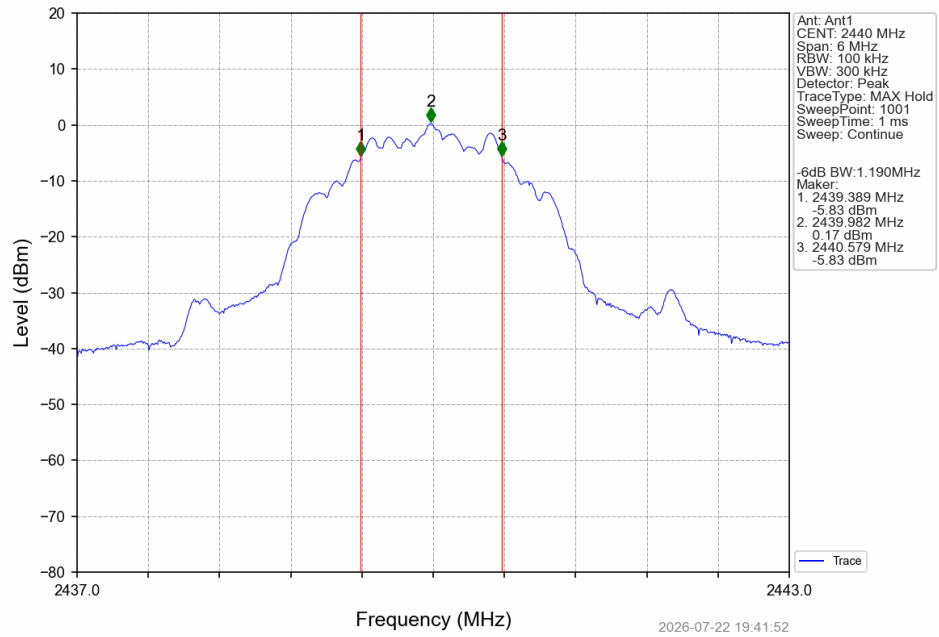
1M_HCH_2480MHz_Ant1_NTNV



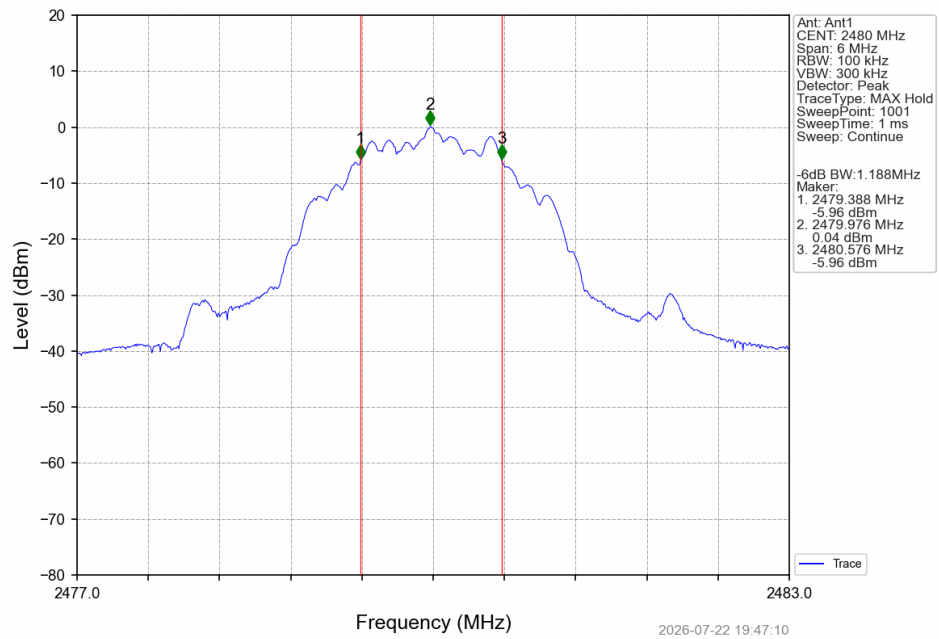
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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	
1M	SISO	2402	1.04	<=30	Pass
		2440	1.24	<=30	Pass
		2480	1.06	<=30	Pass
2M	SISO	2402	1.15	<=30	Pass
		2440	1.36	<=30	Pass
		2480	1.20	<=30	Pass

4. Maximum Power Spectral Density

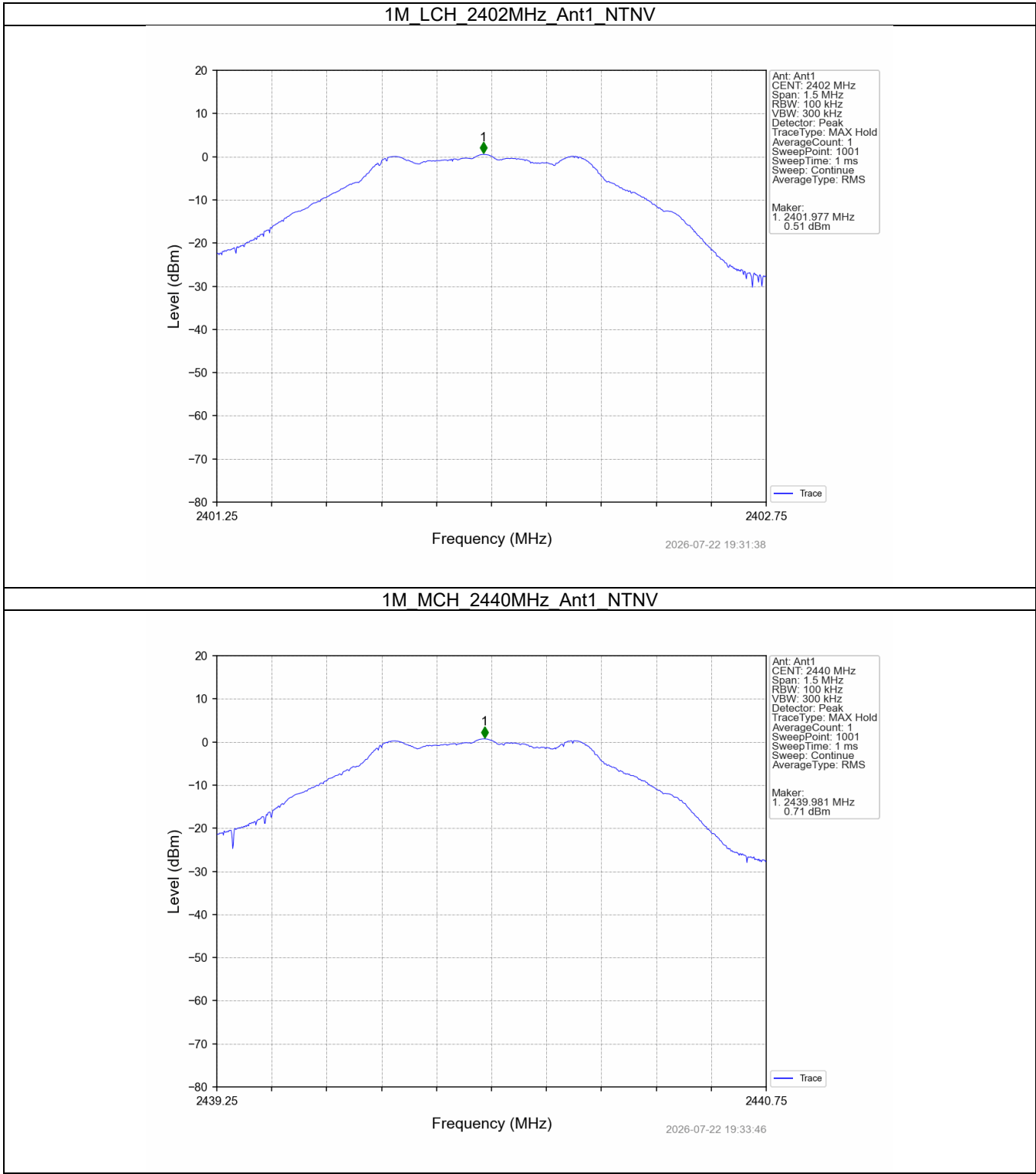
4.1 Test Result

4.1.1 PSD

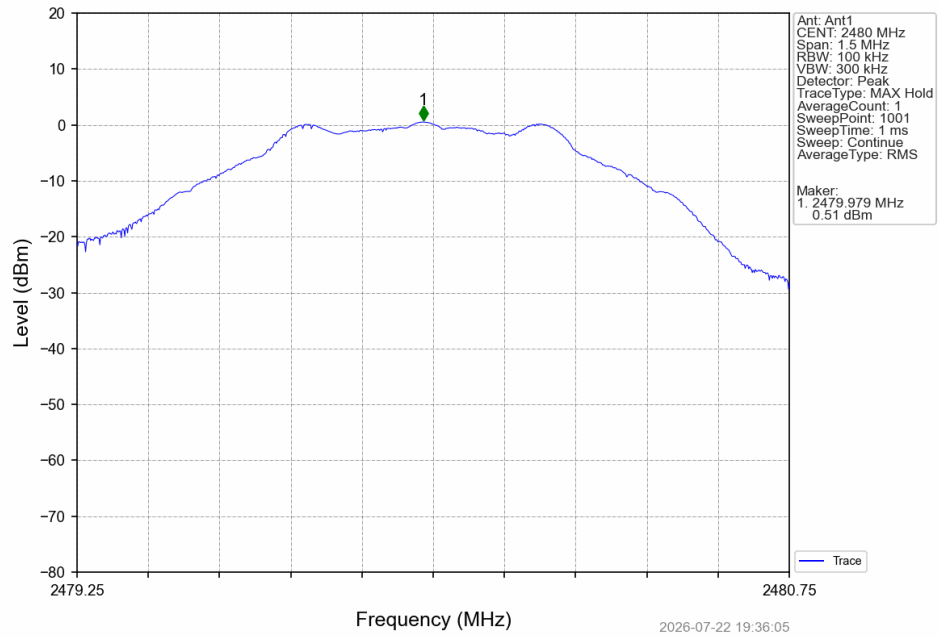
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	0.51dBm/100kHz	<=8	Pass
		2440	0.71dBm/100kHz	<=8	Pass
		2480	0.51dBm/100kHz	<=8	Pass
2M	SISO	2402	-0.13dBm/100kHz	<=8	Pass
		2440	0.07dBm/100kHz	<=8	Pass
		2480	-0.09dBm/100kHz	<=8	Pass

4.2 Test Graph

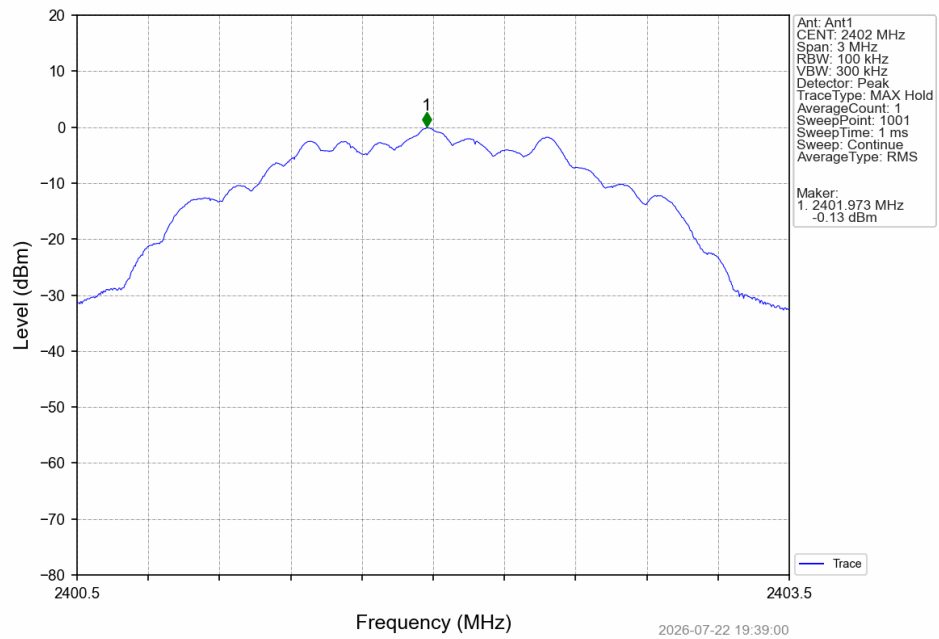
4.2.1 PSD



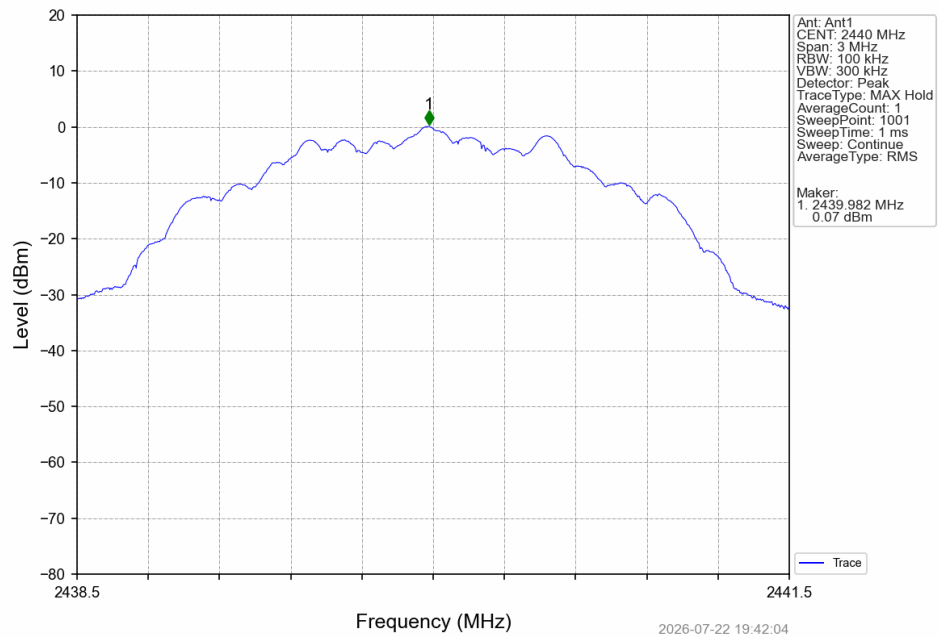
1M_HCH_2480MHz_Ant1_NTNV



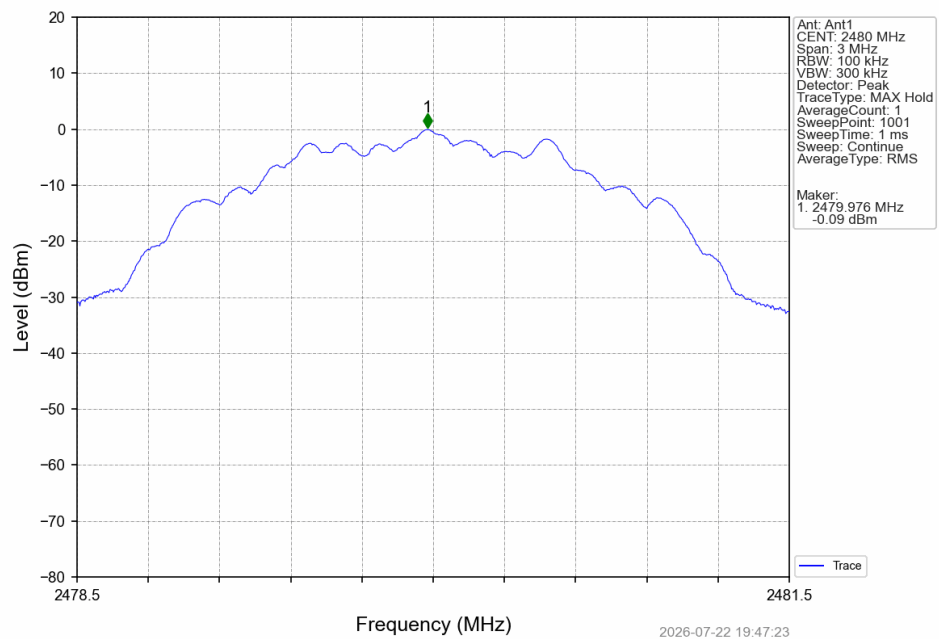
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

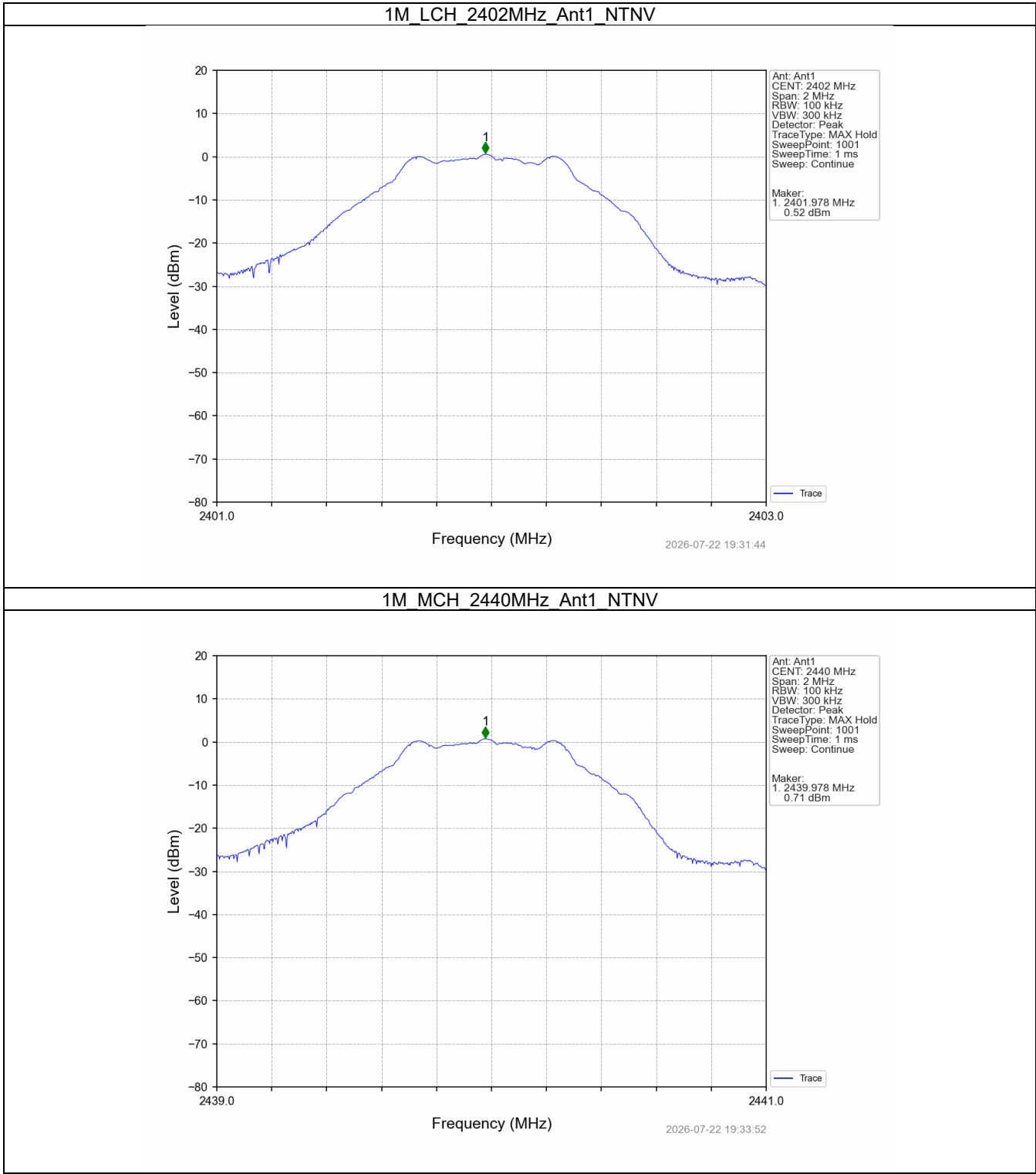
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.52
		2440	1	0.71
		2480	1	0.50
2M	SISO	2402	1	-0.10
		2440	1	0.10
		2480	1	-0.05

5.1.2 CSE

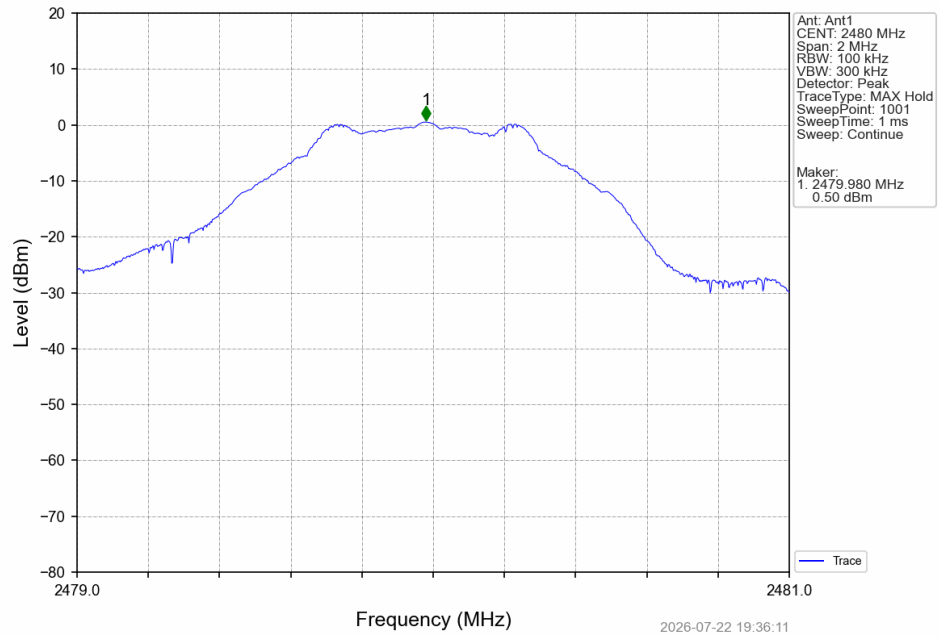
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.52	-19.48	Pass
		2440	1	0.71	-19.29	Pass
		2480	1	0.50	-19.50	Pass
2M	SISO	2402	1	-0.10	-20.10	Pass
		2440	1	0.10	-19.90	Pass
		2480	1	-0.05	-20.05	Pass

5.2 Test Graph

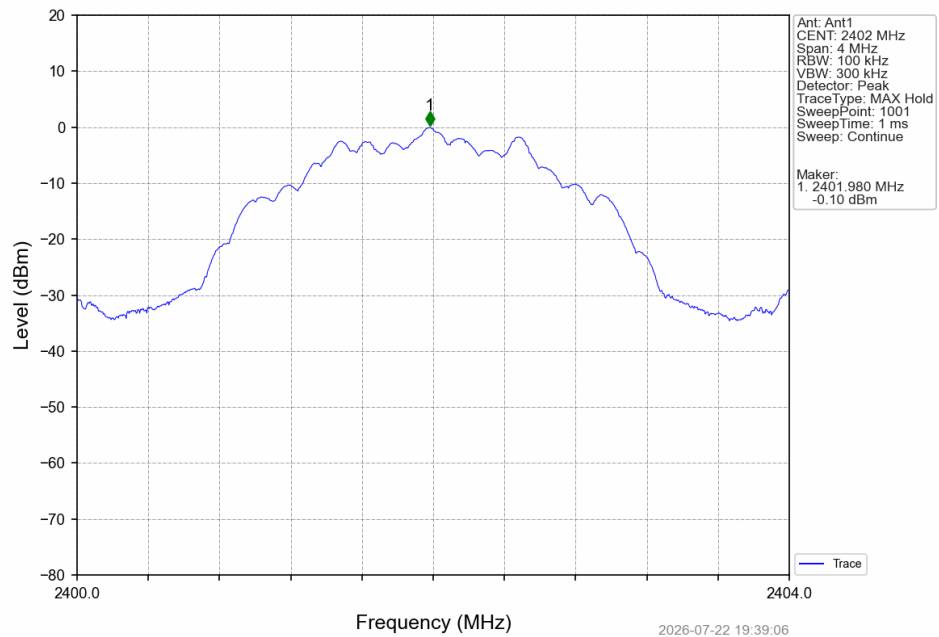
5.2.1 Ref



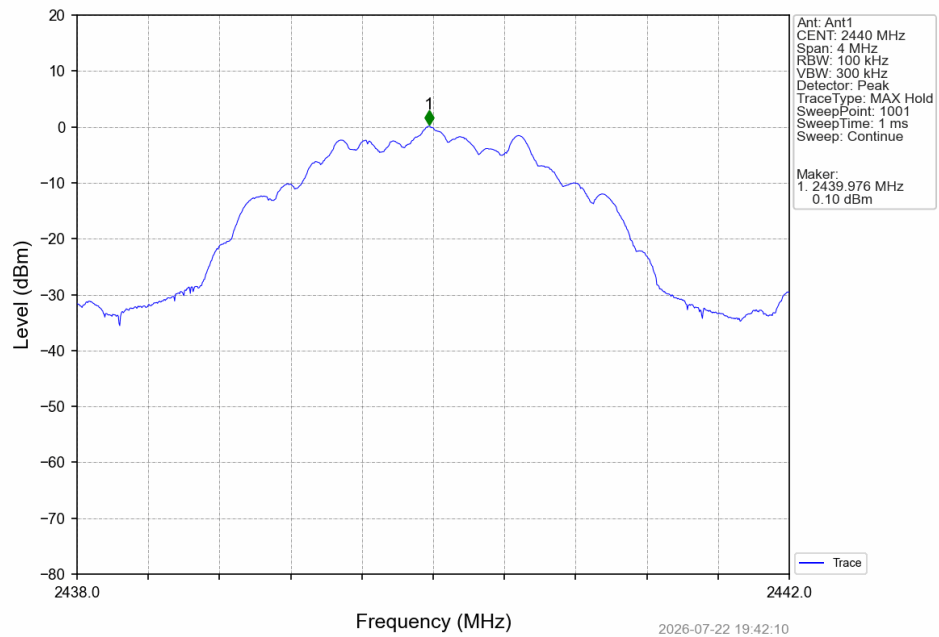
1M_HCH_2480MHz_Ant1_NTNV



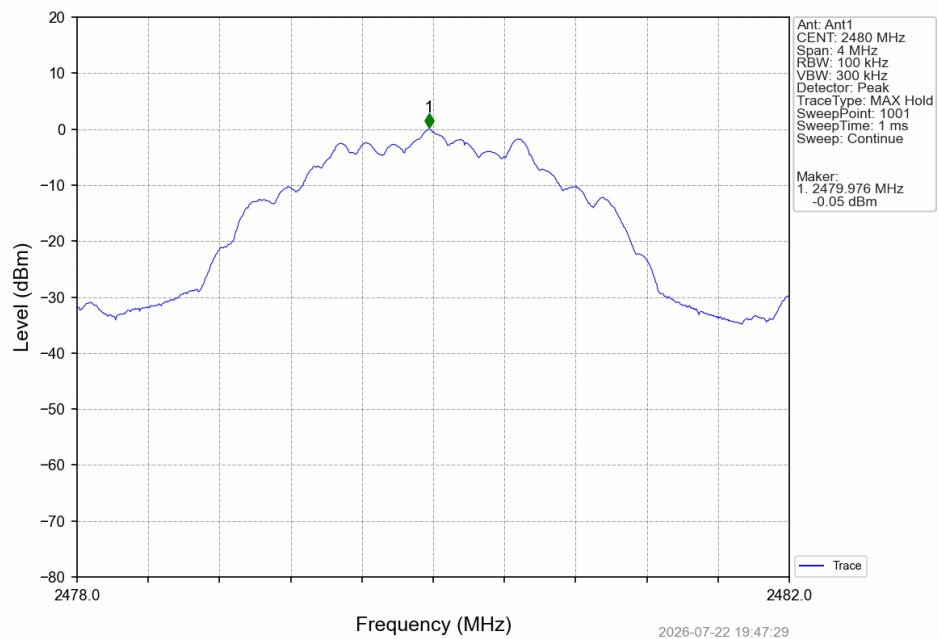
2M_LCH_2402MHz_Ant1_NTNV



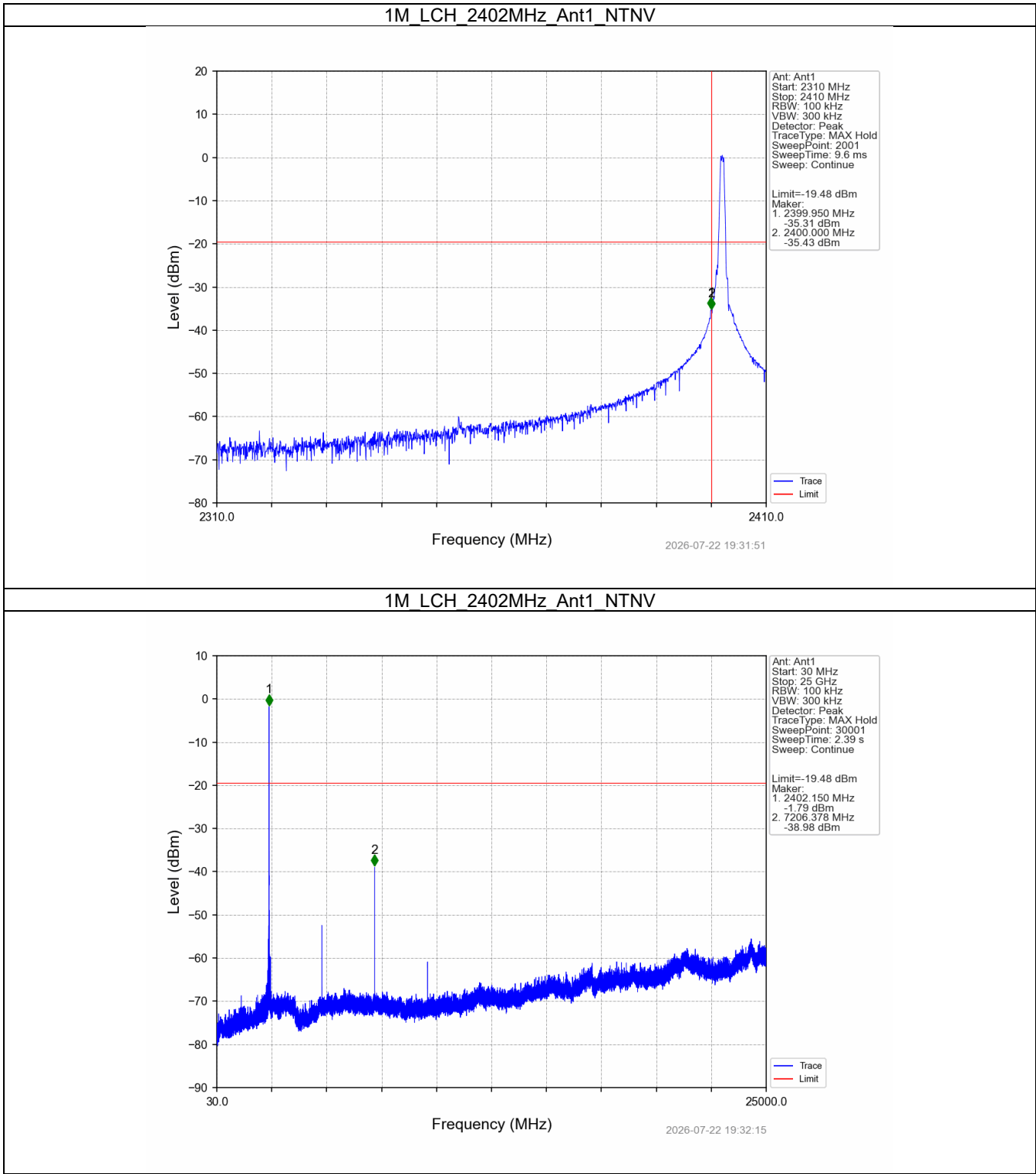
2M_MCH_2440MHz_Ant1_NTNV



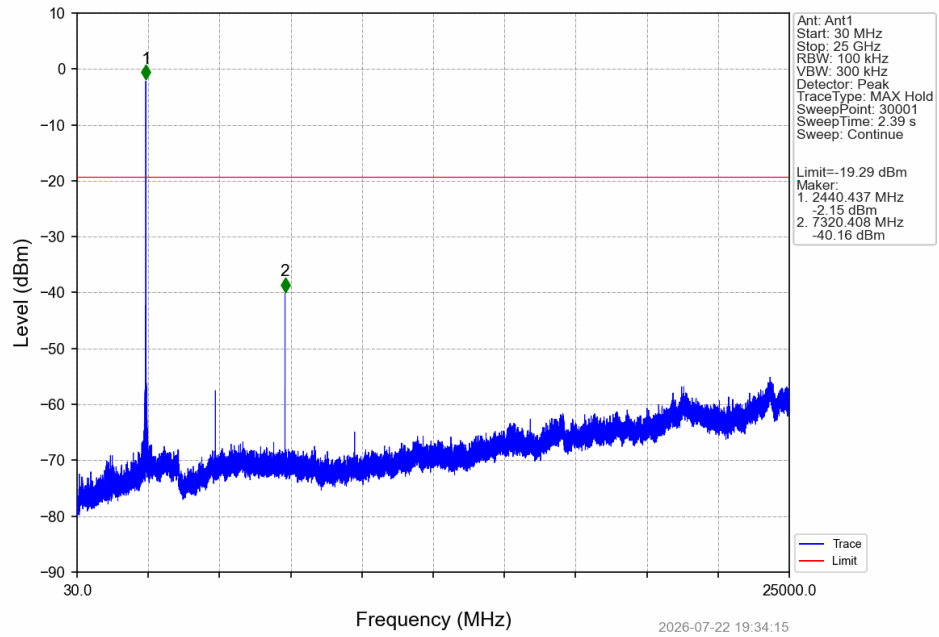
2M_HCH_2480MHz_Ant1_NTNV



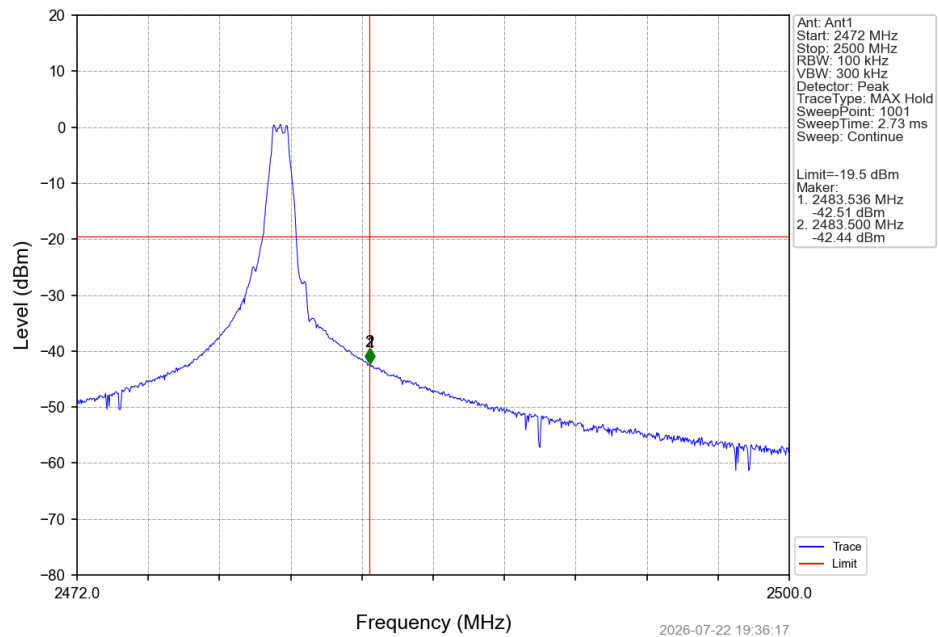
5.2.2 CSE



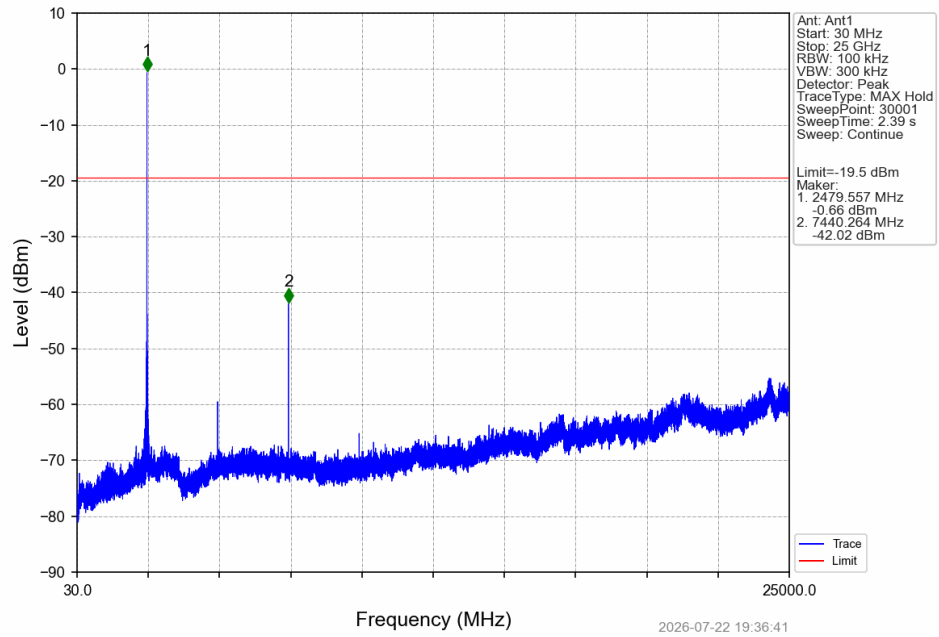
1M_MCH_2440MHz_Ant1_NTNV



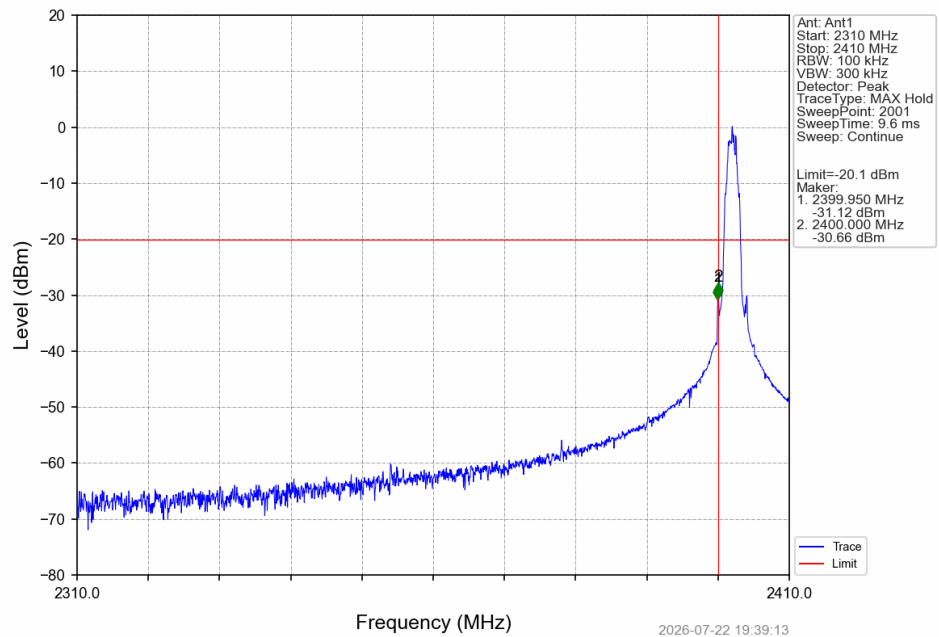
1M_HCH_2480MHz_Ant1_NTNV



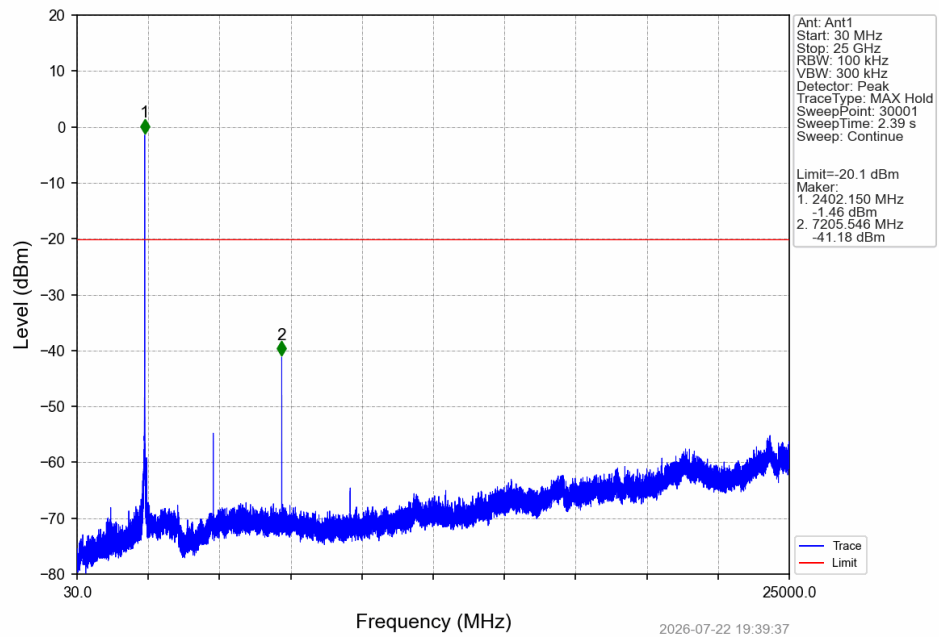
1M_HCH_2480MHz_Ant1_NTNV



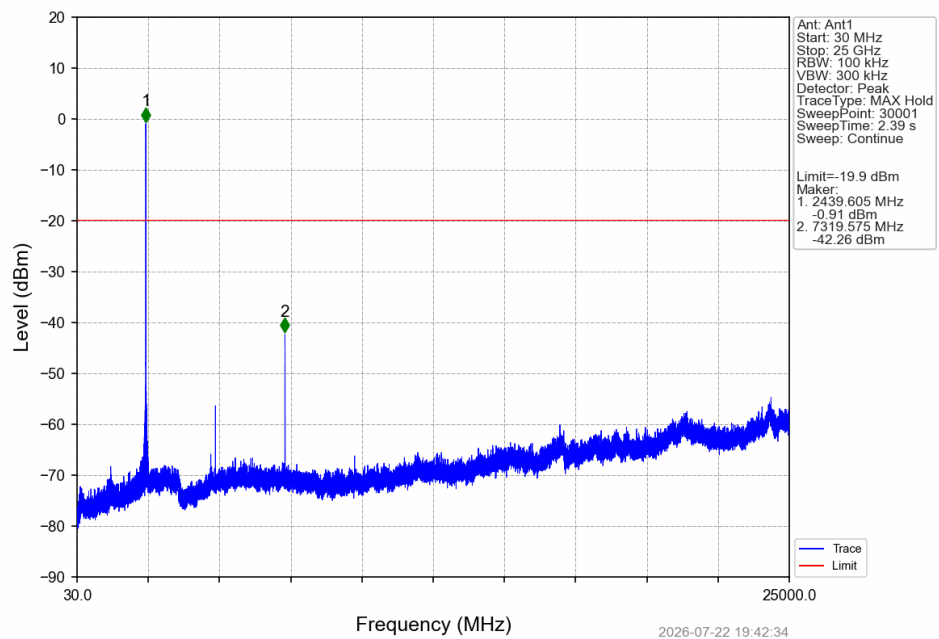
2M_LCH_2402MHz_Ant1_NTNV



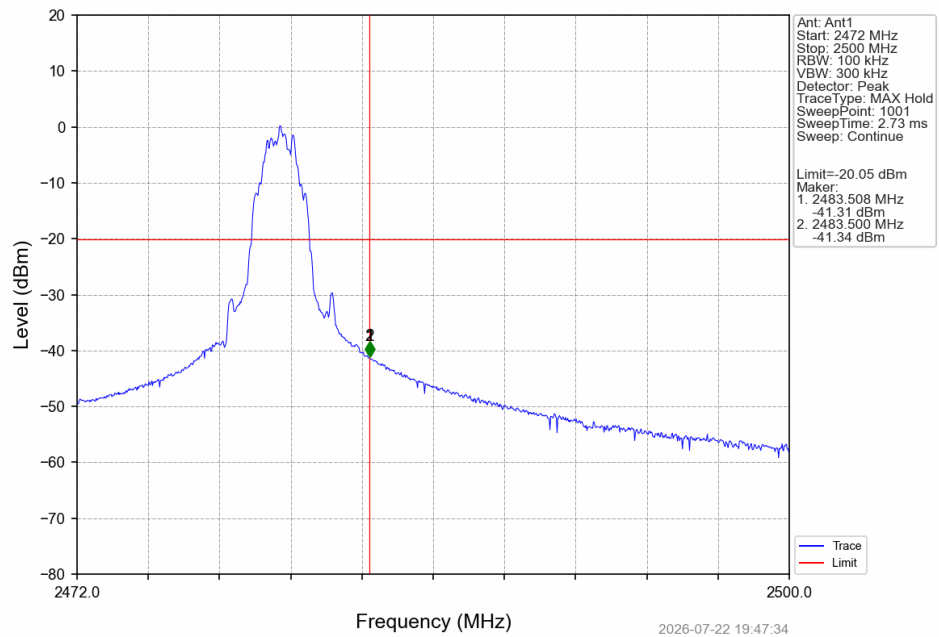
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV

