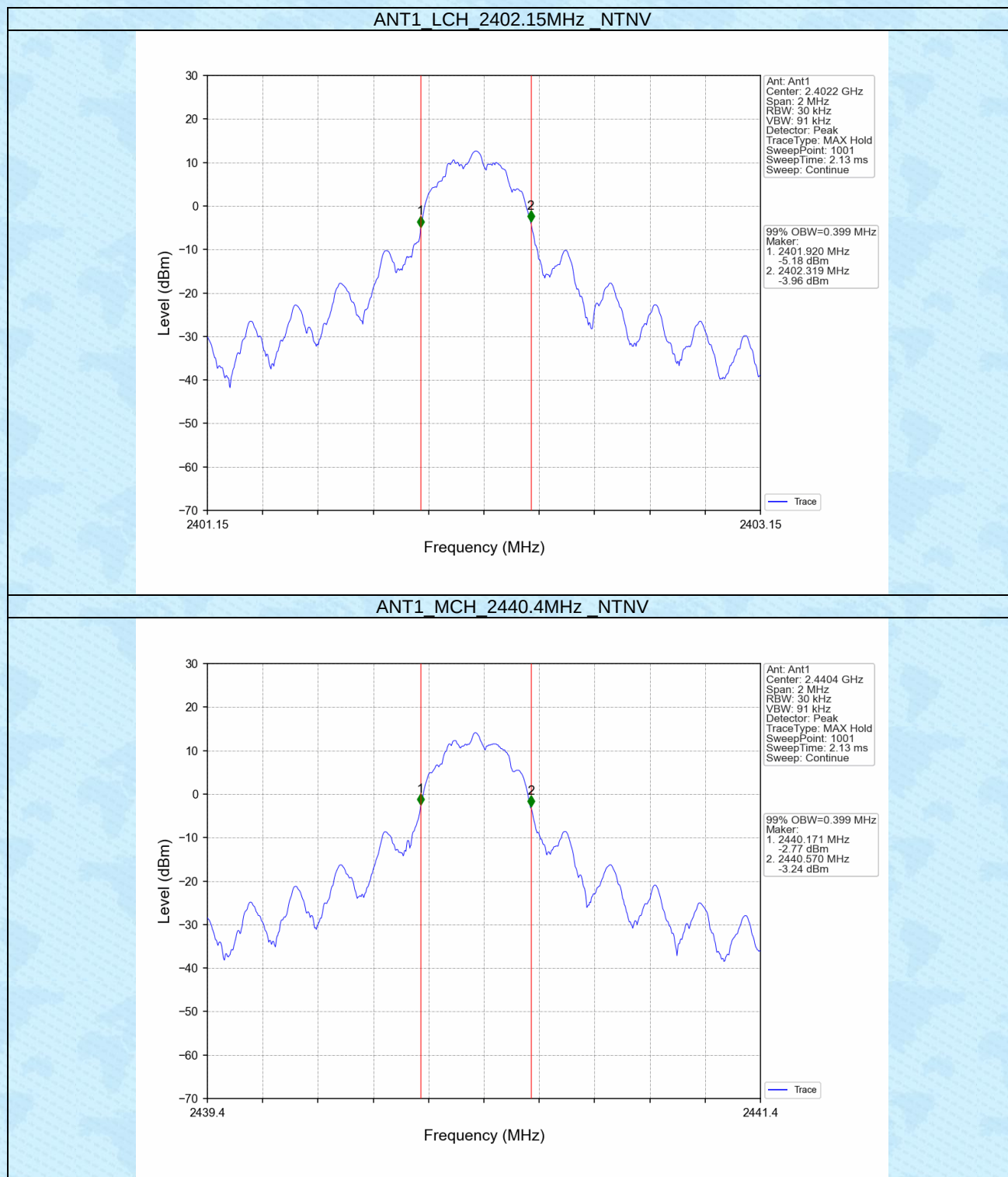


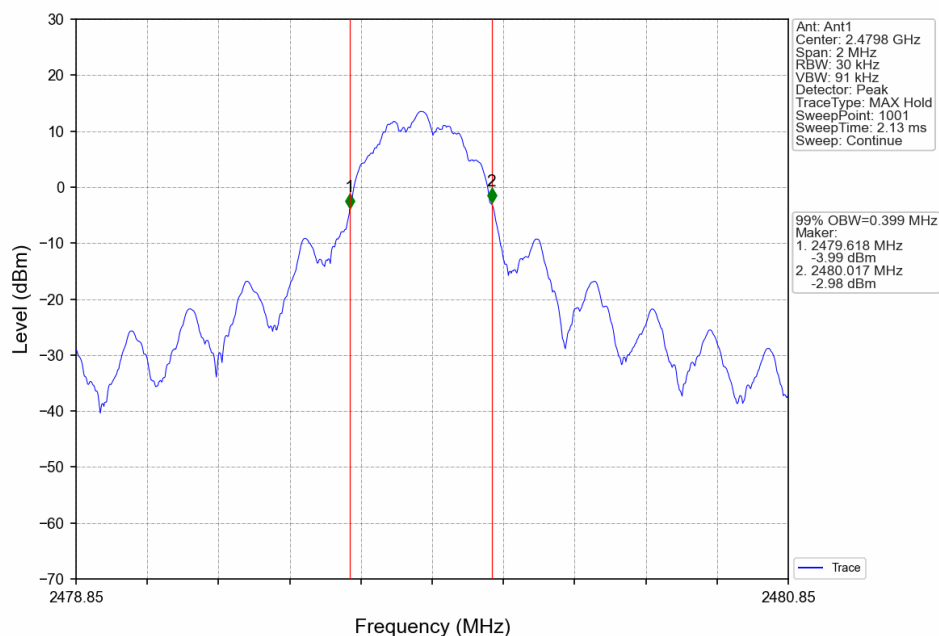
Appendix for 15.247**1. Bandwidth****1.1 OBW****1.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
GMSK	SISO	2402.15	ANT1	0.399	Pass
		2440.4	ANT1	0.399	Pass
		2479.85	ANT1	0.399	Pass
GMSK	SISO	2402.15	ANT2	0.403	Pass
		2440.4	ANT2	0.400	Pass
		2479.85	ANT2	0.392	Pass

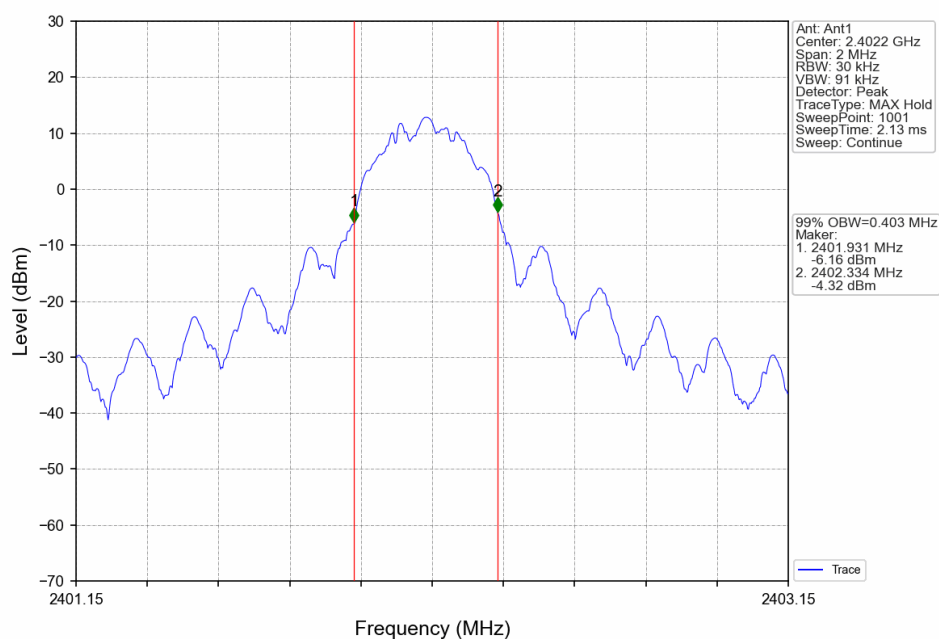
1.1.2 Test Graph



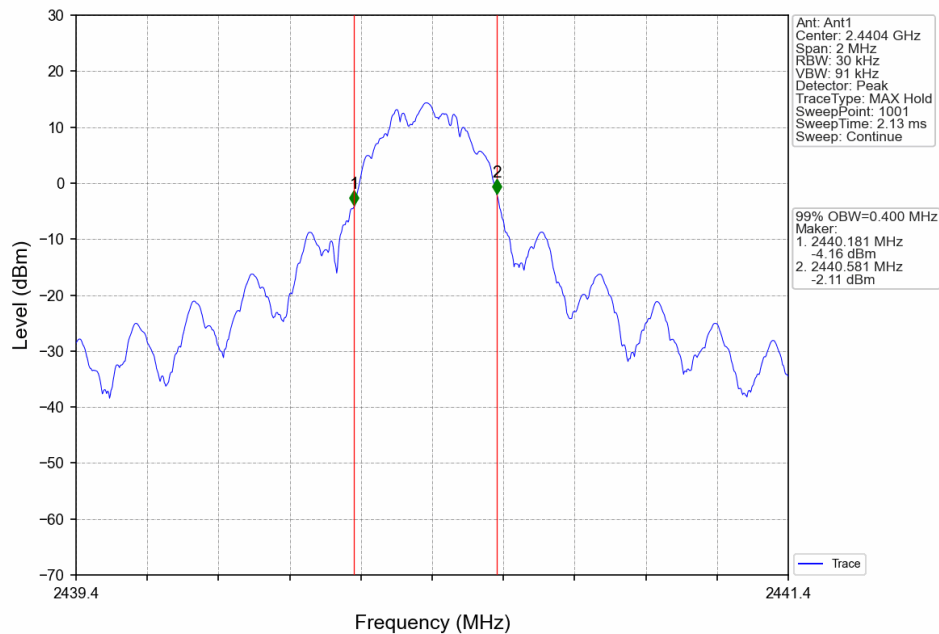
ANT1_HCH_2479.85MHz_NTNV



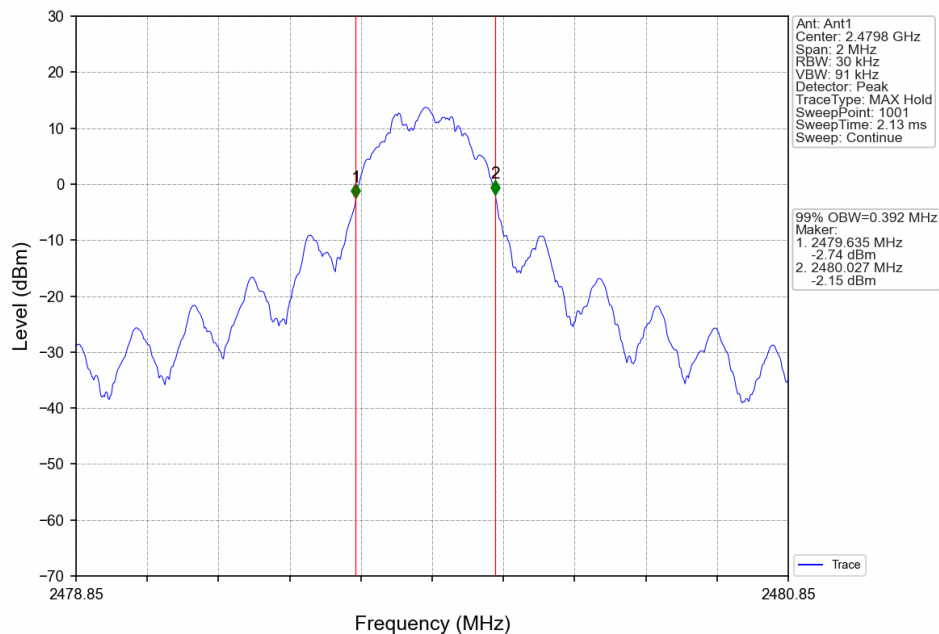
ANT2_LCH_2402.15MHz_NTNV



ANT2_MCH_2440.4MHz_NTNV



ANT2_HCH_2479.85MHz_NTNV

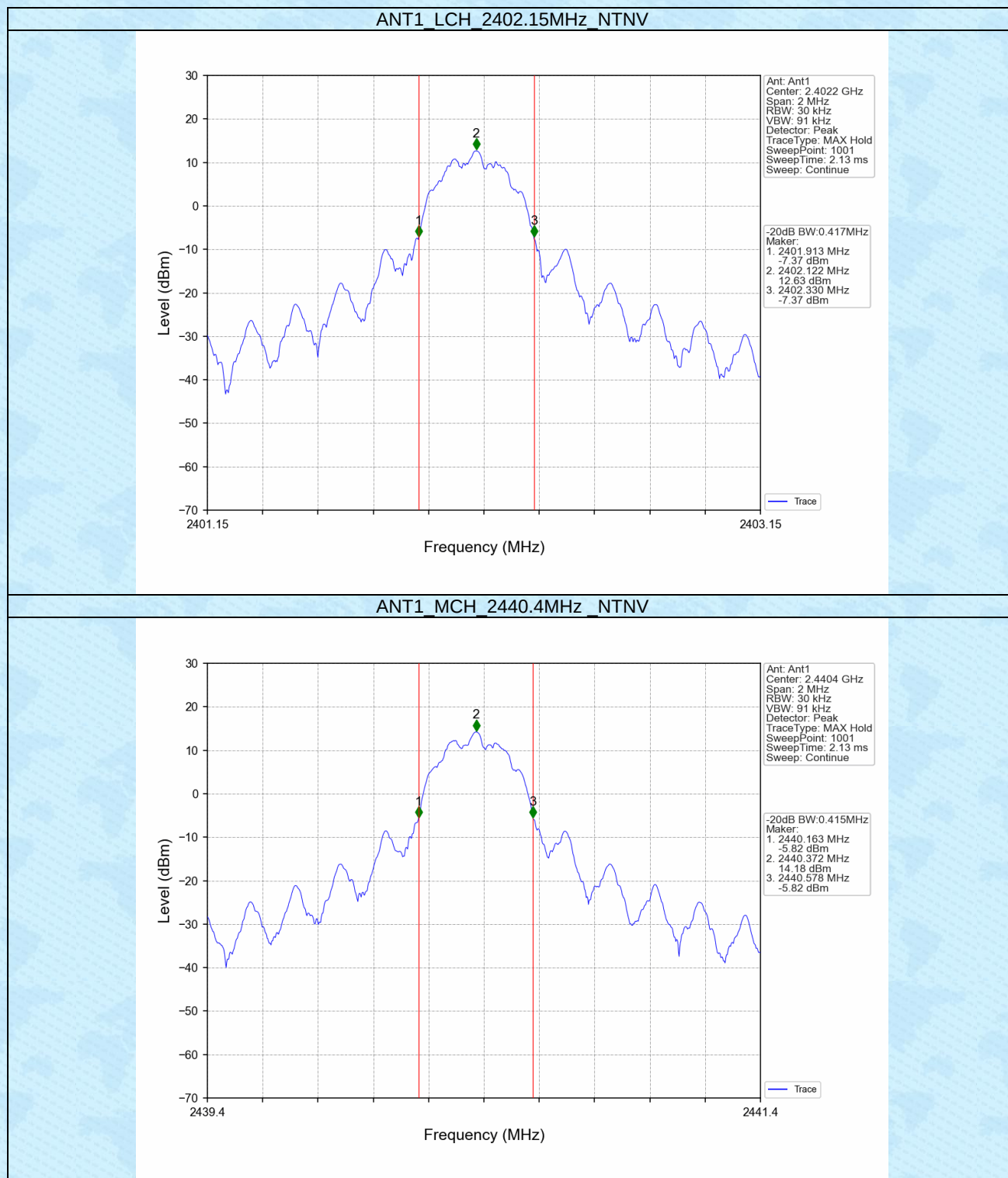


1.2 20dB BW

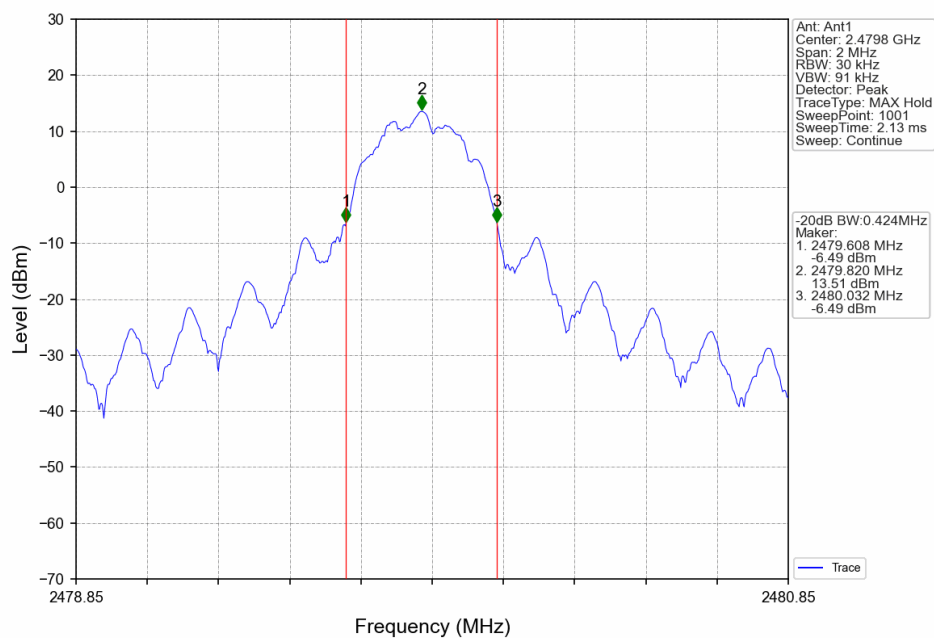
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)	Verdict
				Result	
GMSK	SISO	2402.15	ANT1	0.417	Pass
		2440.4	ANT1	0.415	Pass
		2479.85	ANT1	0.424	Pass
GMSK	SISO	2402.15	ANT2	0.432	Pass
		2440.4	ANT2	0.431	Pass
		2479.85	ANT2	0.424	Pass

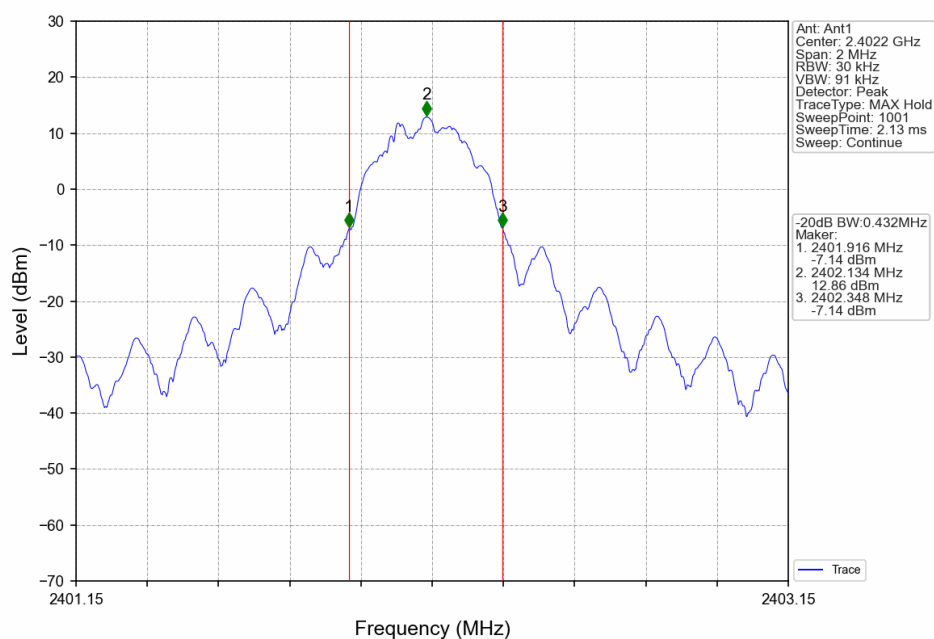
1.2.2 Test Graph



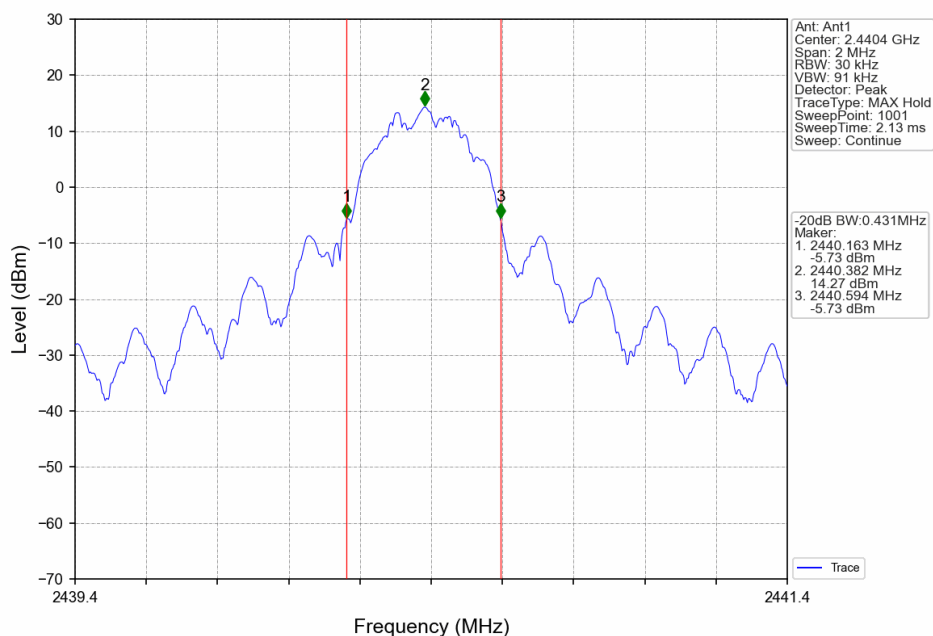
ANT1_HCH_2479.85MHz_NTNV



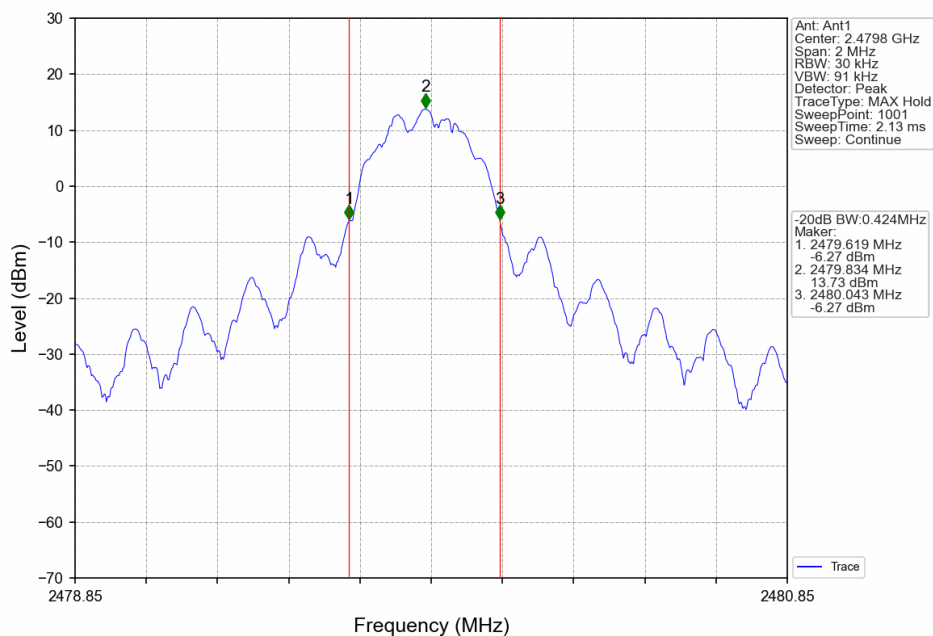
ANT2_LCH_2402.15MHz_NTNV



ANT2_MCH_2440.4MHz_NTNV



ANT2_HCH_2479.85MHz_NTNV



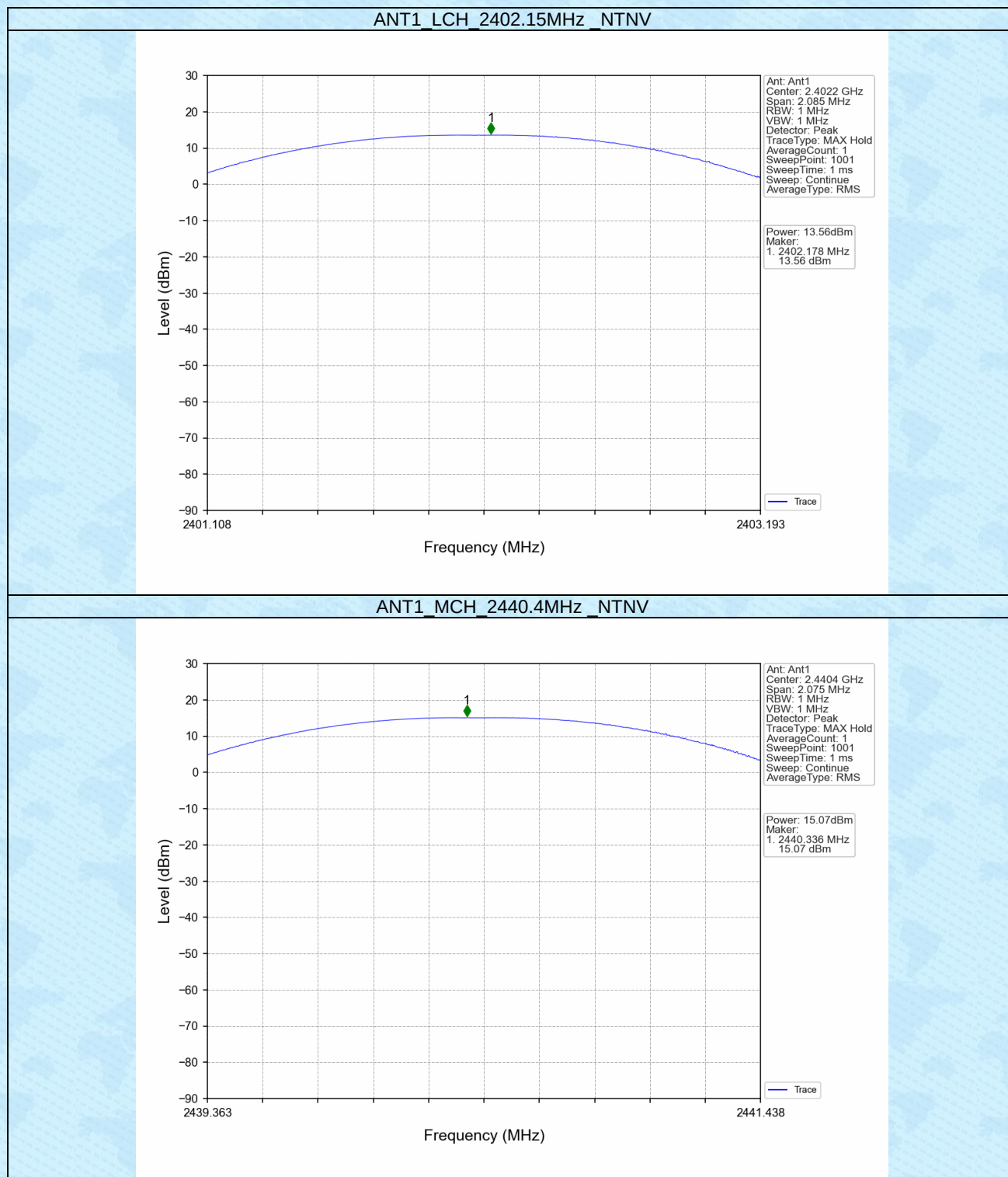
2. Maximum Conducted Output Power

2.1 Power

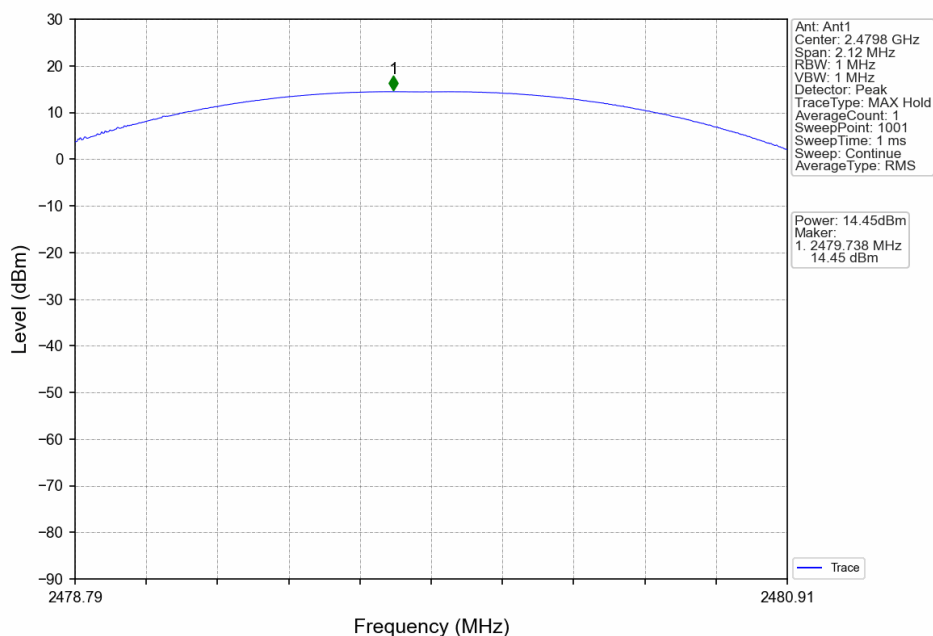
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)			Verdict
			ANT 1	ANT 2	Limit	
GMSK	SISO	2402.15	13.56	13.78	≤ 20.97	Pass
		2440.4	15.07	15.26	≤ 20.97	Pass
		2479.85	14.45	14.68	≤ 20.97	Pass

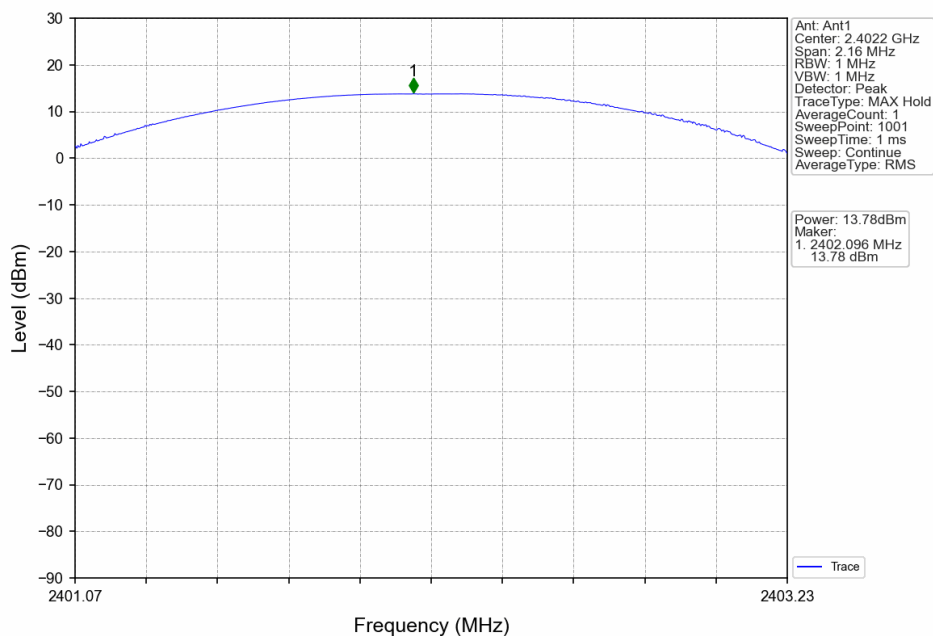
2.1.2 Test Graph



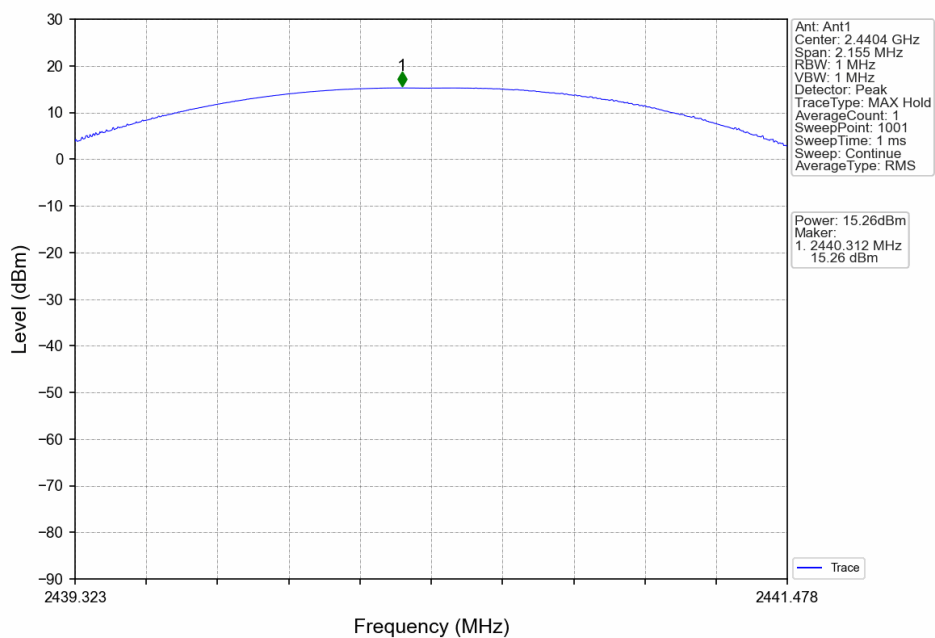
ANT1_HCH_2479.85MHz_NTNV



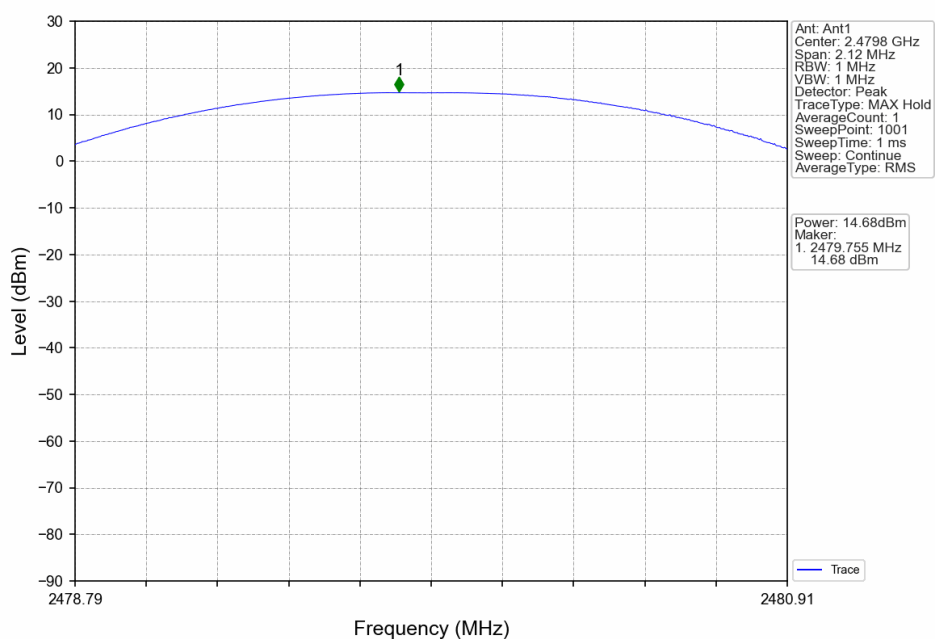
ANT2_LCH_2402.15MHz_NTNV



ANT2_MCH_2440.4MHz_NTNV



ANT2_HCH_2479.85MHz_NTNV

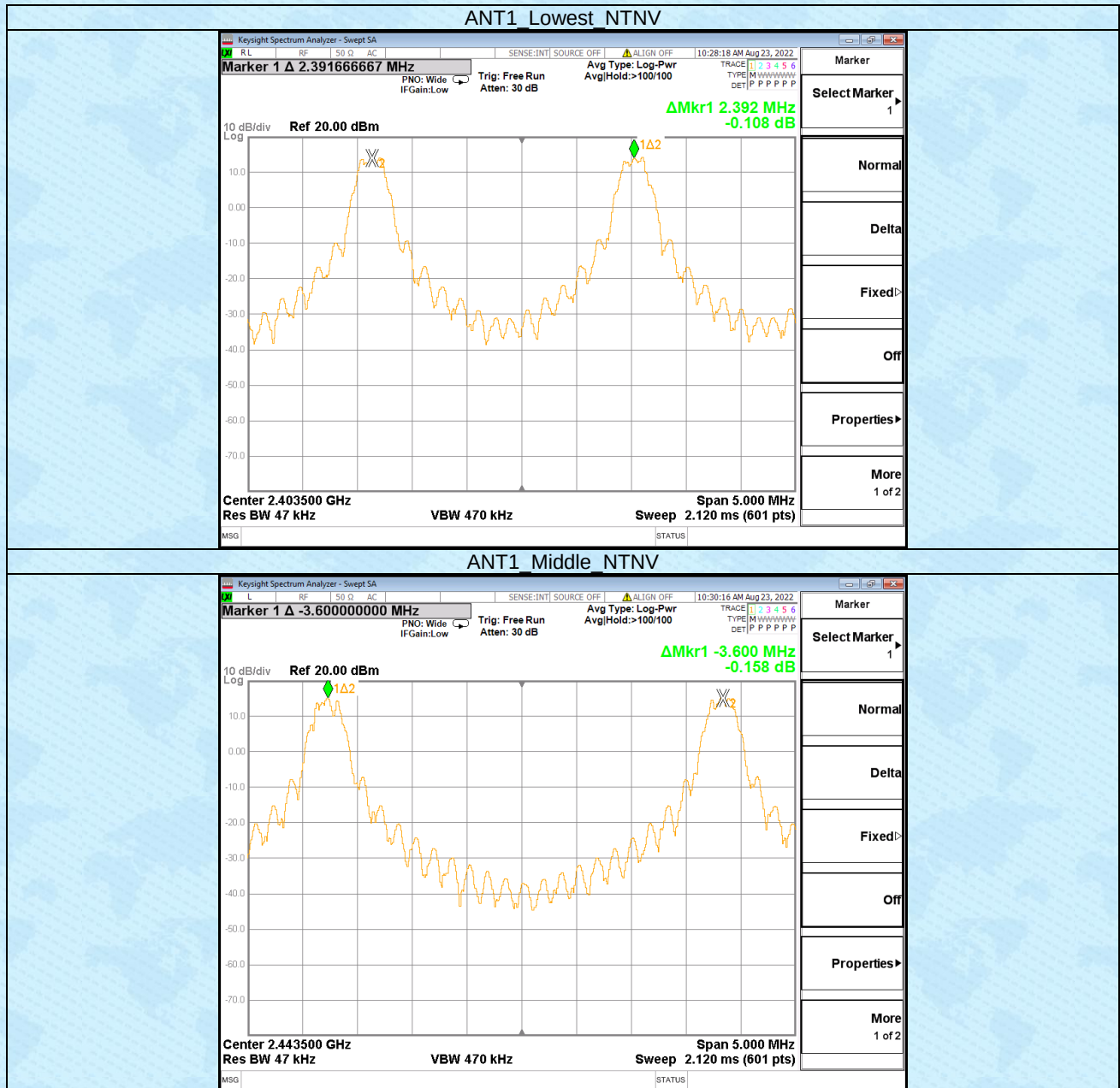


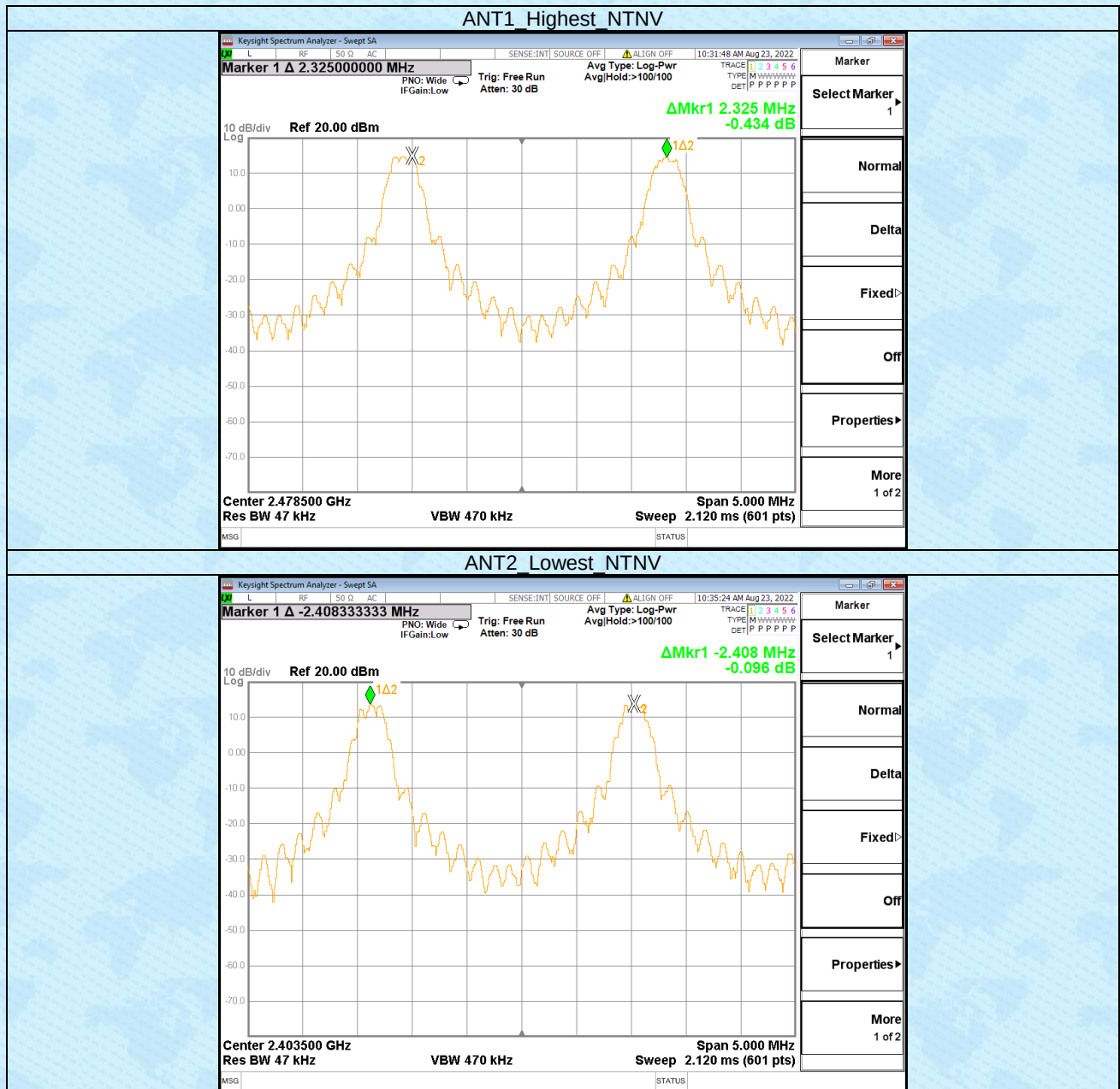
3. Carrier Frequency Separation

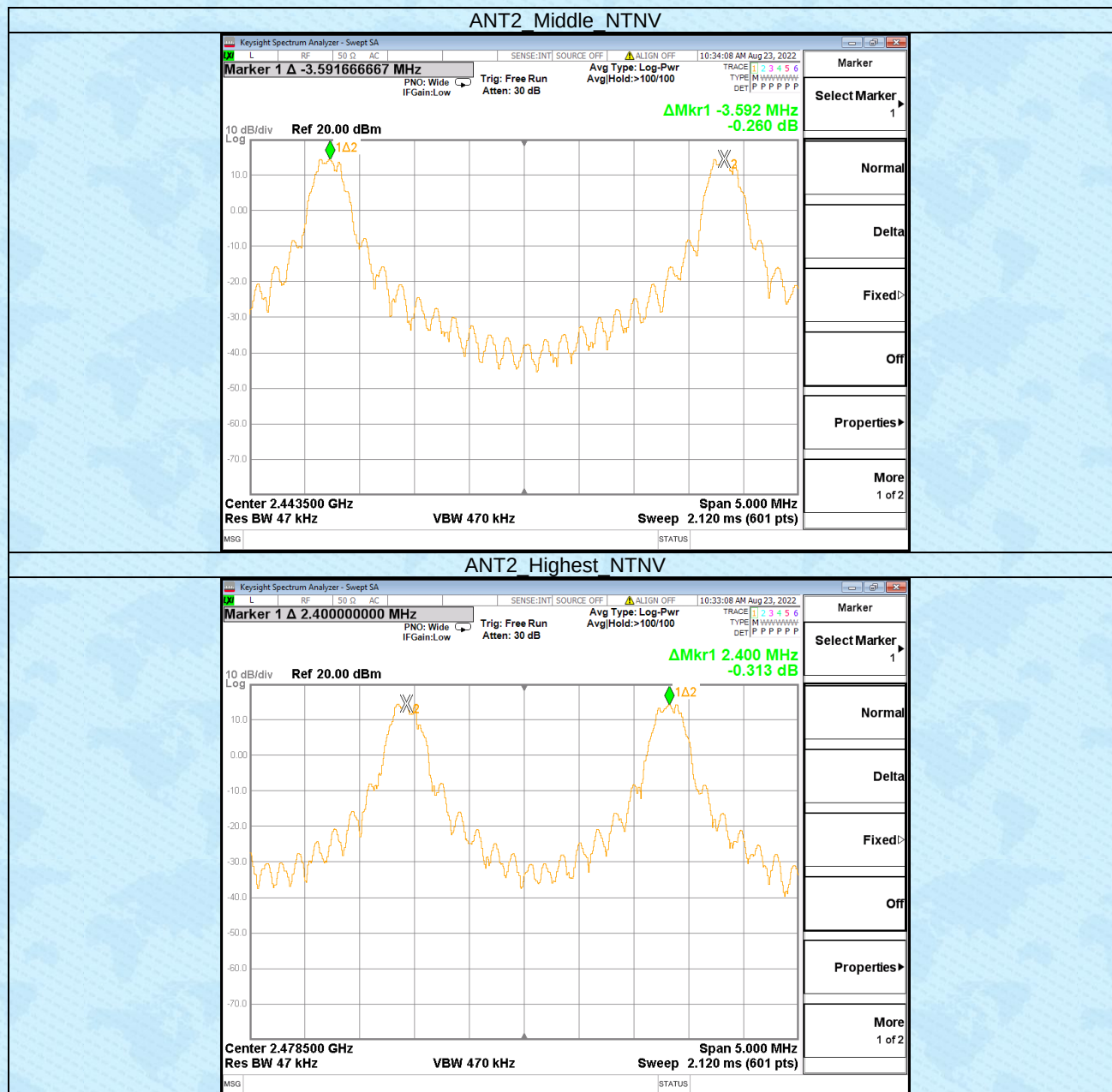
3.1 Test Result

ANT	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
ANT1	SISO	Lowest	2.392	0.417	0.278	Pass
		Middle	3.600	0.415	0.277	Pass
		Highest	2.325	0.424	0.283	Pass
ANT2	SISO	Lowest	2.408	0.432	0.288	Pass
		Middle	3.592	0.431	0.287	Pass
		Highest	2.400	0.424	0.283	Pass

3. 2 Test Graph







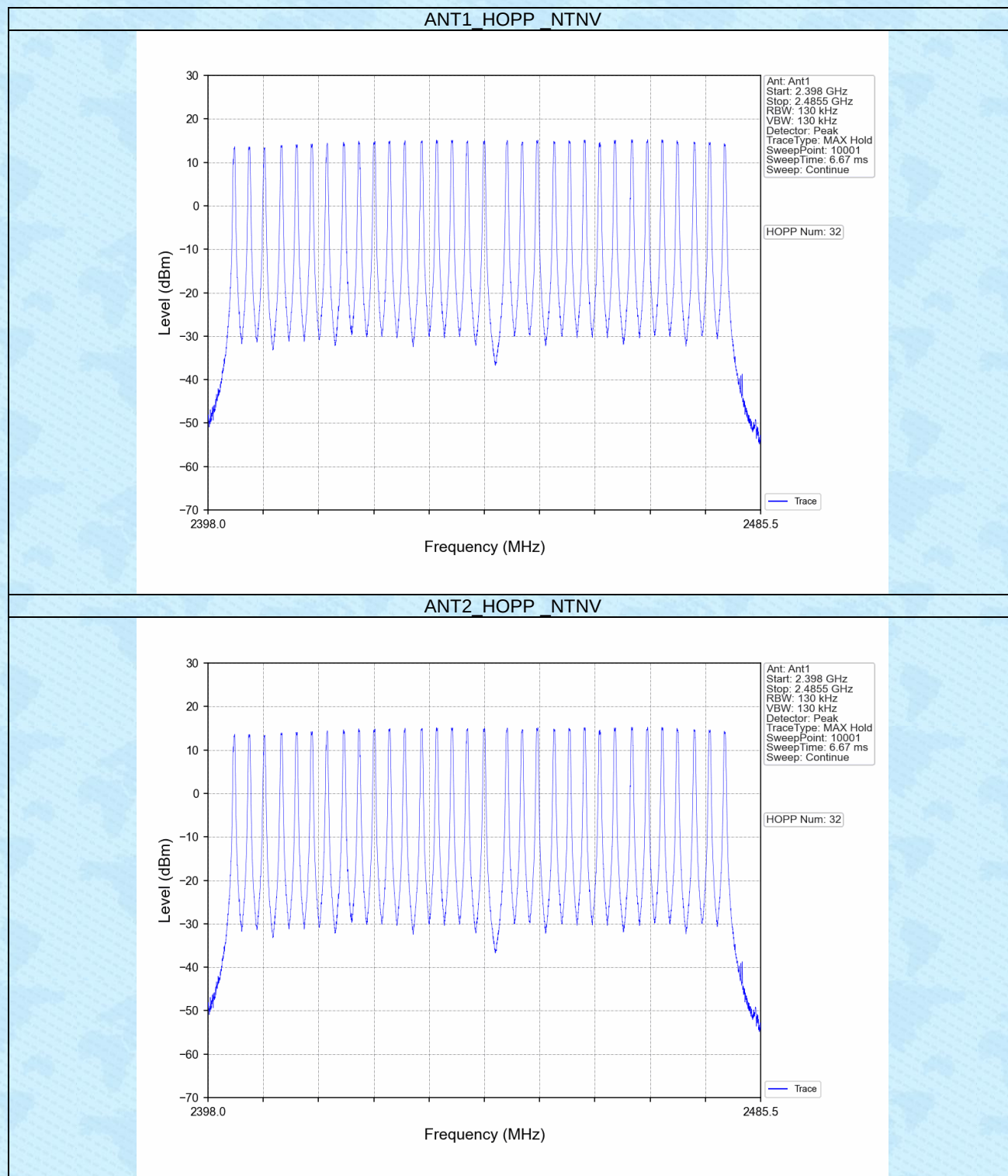
4. Number of Hopping Frequencies

4.1 Hopp Num

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies			Verdict
			ANT 1	ANT 2	Limit	
FHSS	SISO	HOPP	32	32	≥ 15	Pass

4.1.2 Test Graph



5. Time of Occupancy (Dwell Time)

5.1 Test Result

ANT	TX Type	Test channel	Ton (ms)	Dwell time(ms)	Limit(ms)	Result
ANT1	SISO	Lowest	2.467	221.04	400	Pass
		Middle	2.500	224.00	400	Pass
		Highest	2.500	224.00	400	Pass
ANT2	SISO	Lowest	2.500	224.00	400	Pass
		Middle	2.500	224.00	400	Pass
		Highest	2.500	224.00	400	Pass

The formula as below:

ANT1:

Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=2.467ms*7*0.4*32=221.04ms

Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=2.500ms*7*0.4*32=224.00ms

Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=2.500ms*7*0.4*32=224.00ms

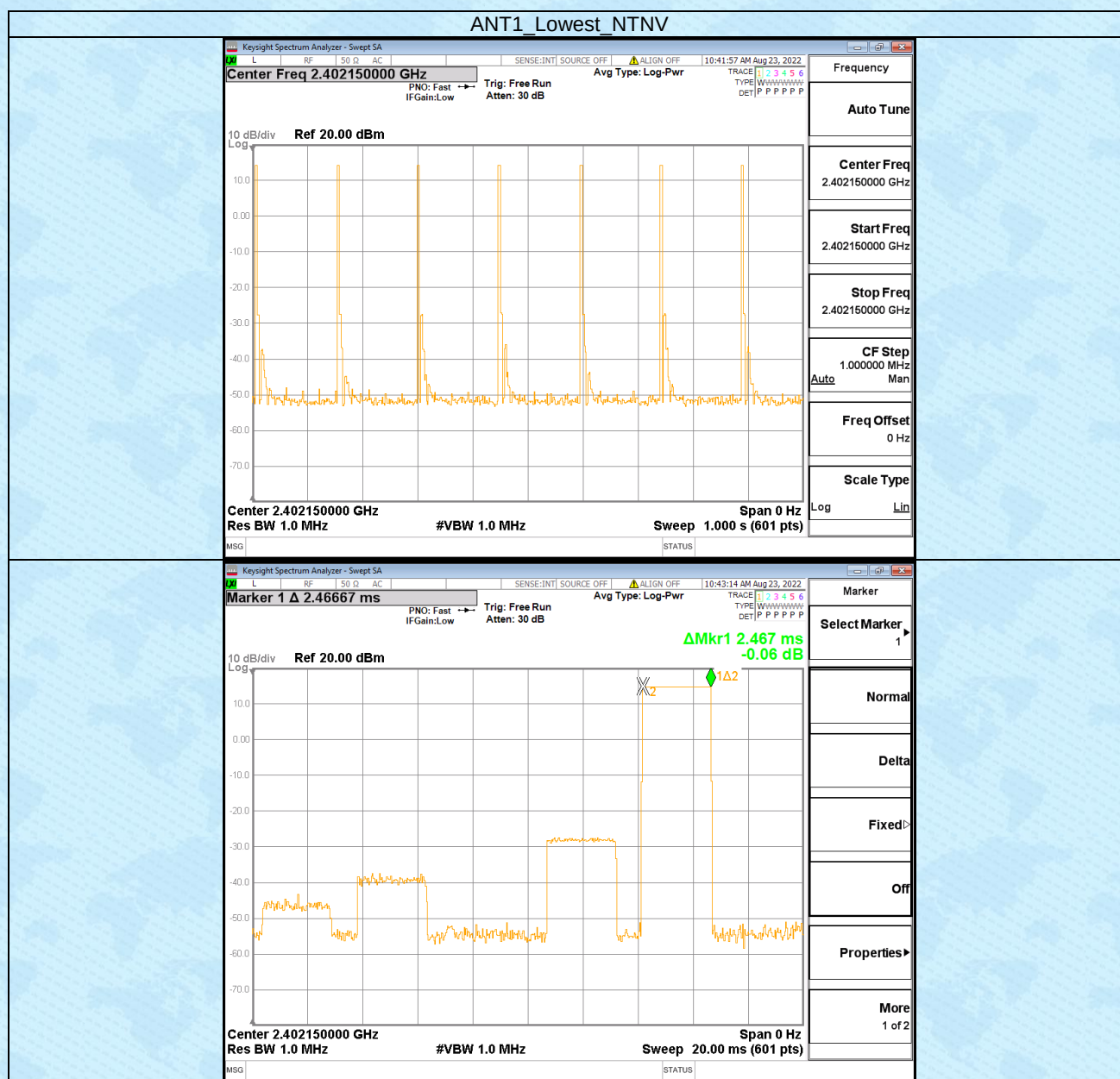
ANT2:

Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=2.500ms*7*0.4*32=224.00ms

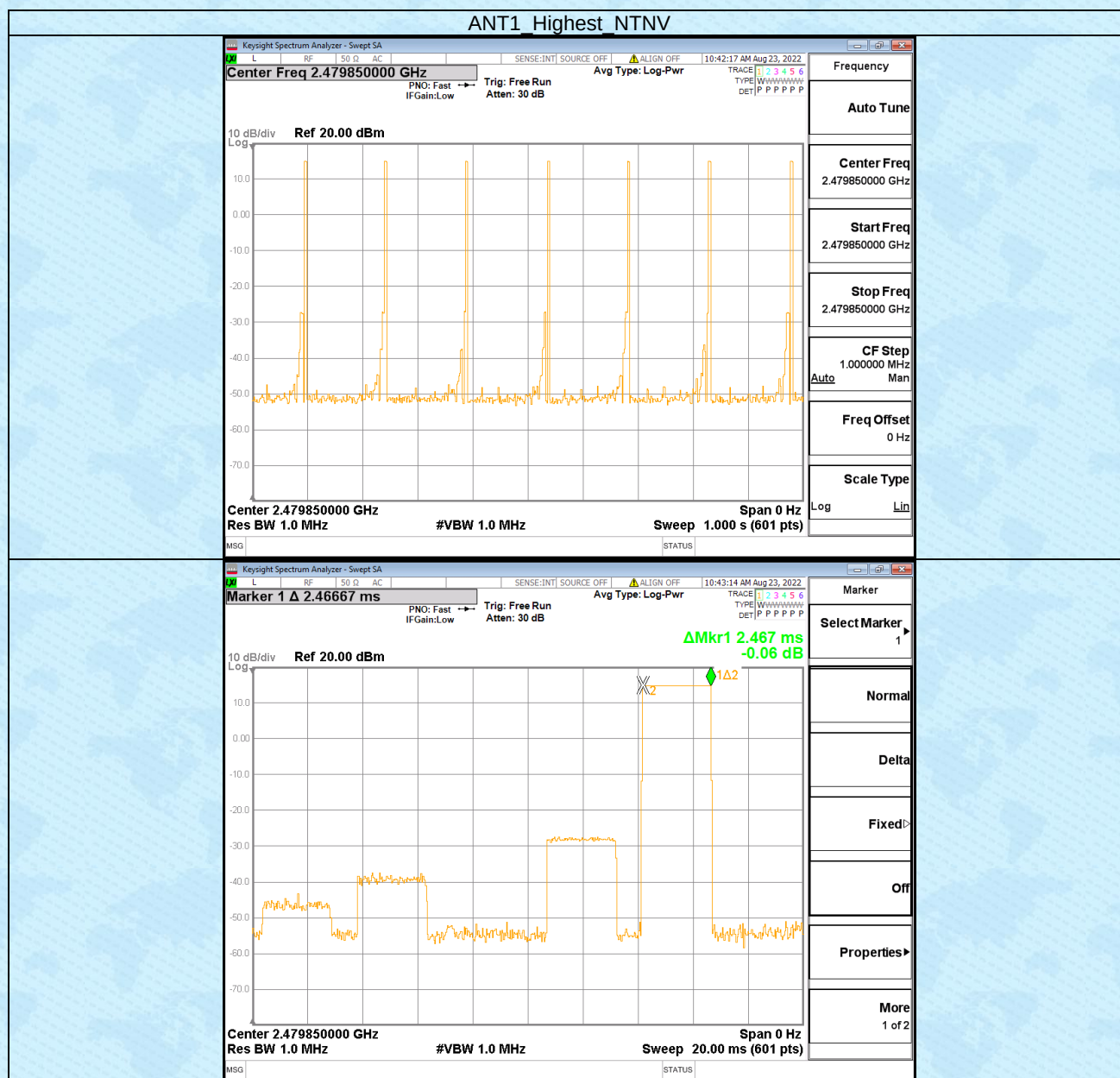
Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=2.500ms*7*0.4*32=224.00ms

Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=2.500ms*7*0.4*32=224.00ms

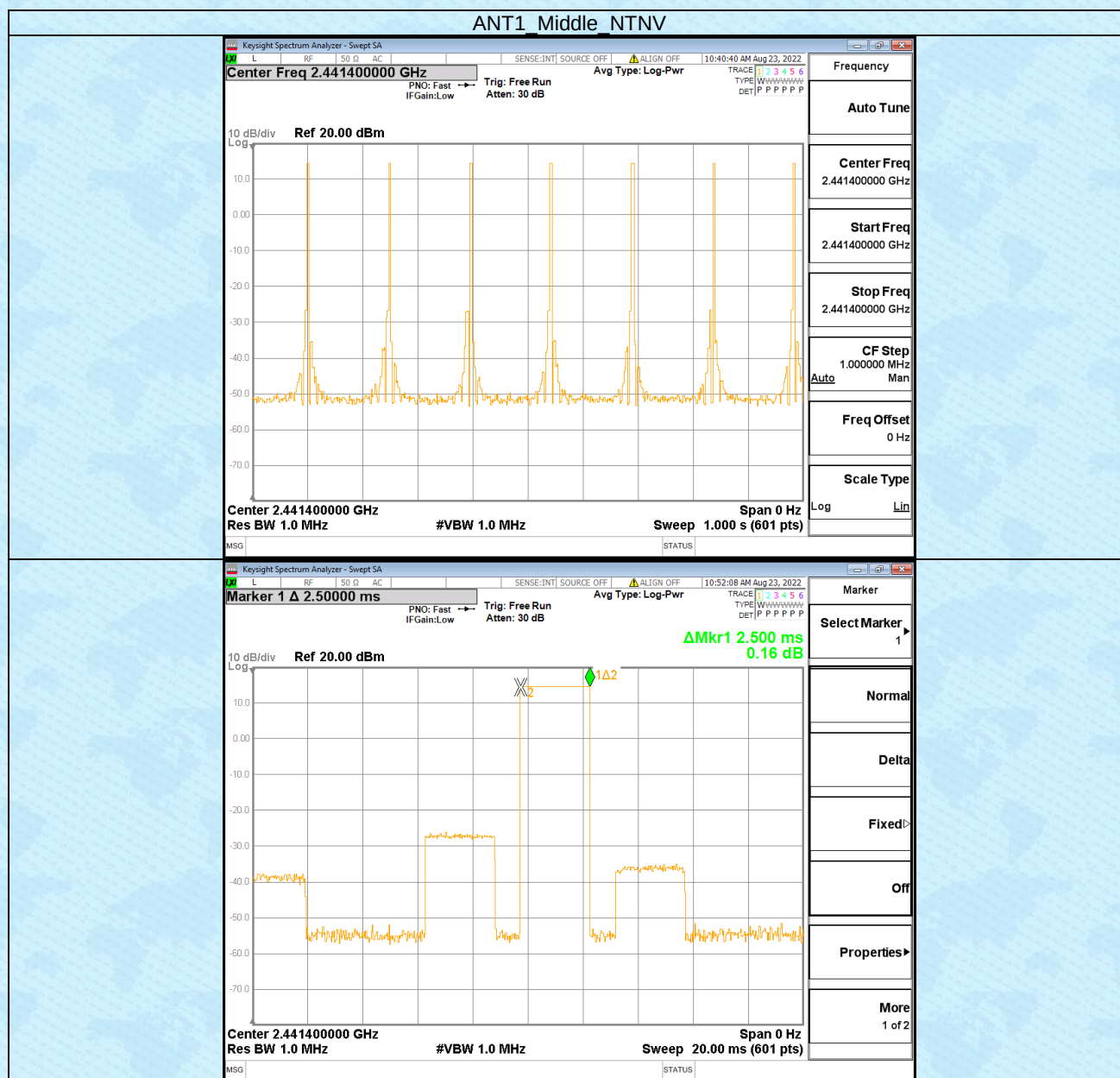
5.2 Test Graph

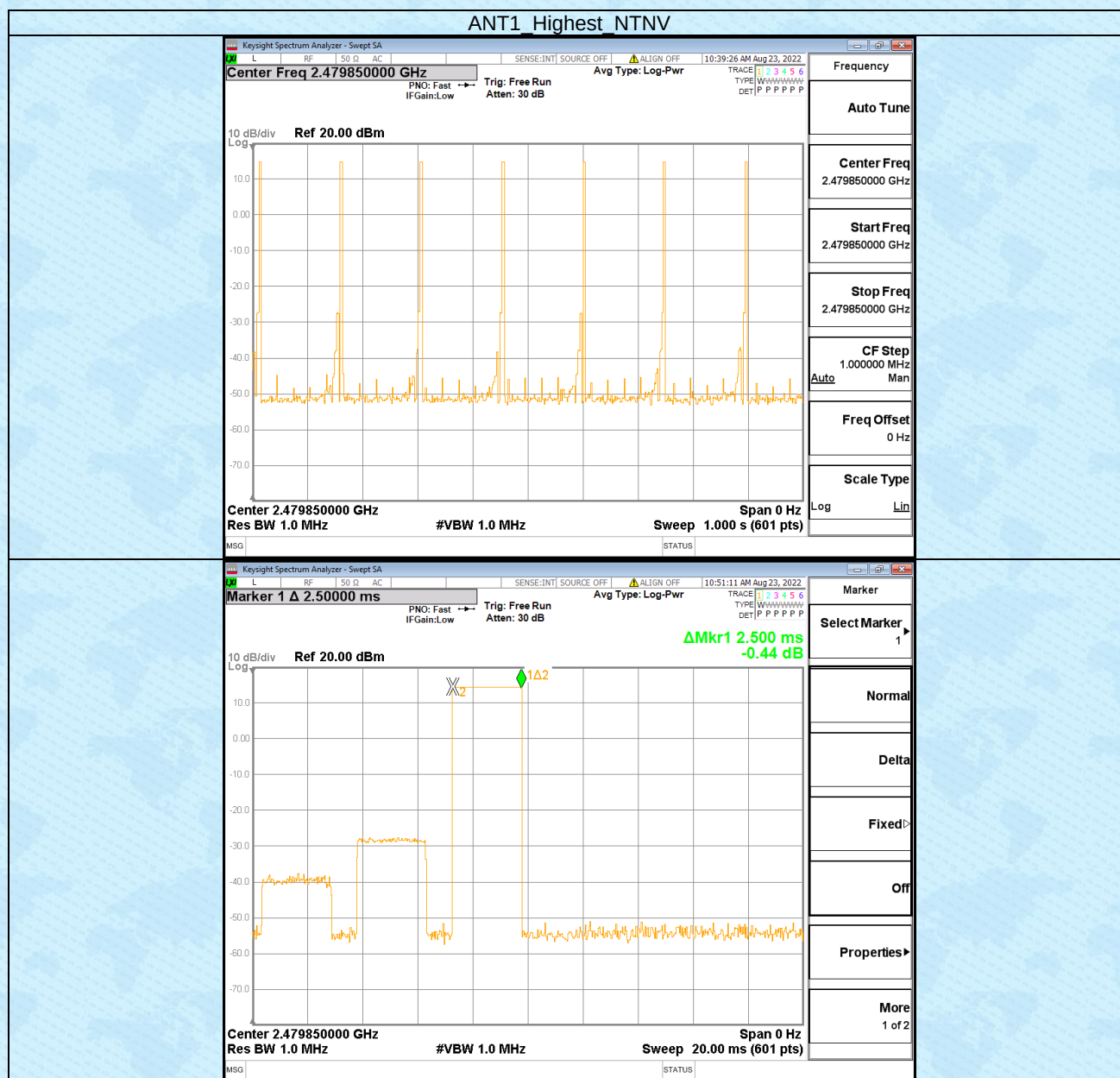












6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

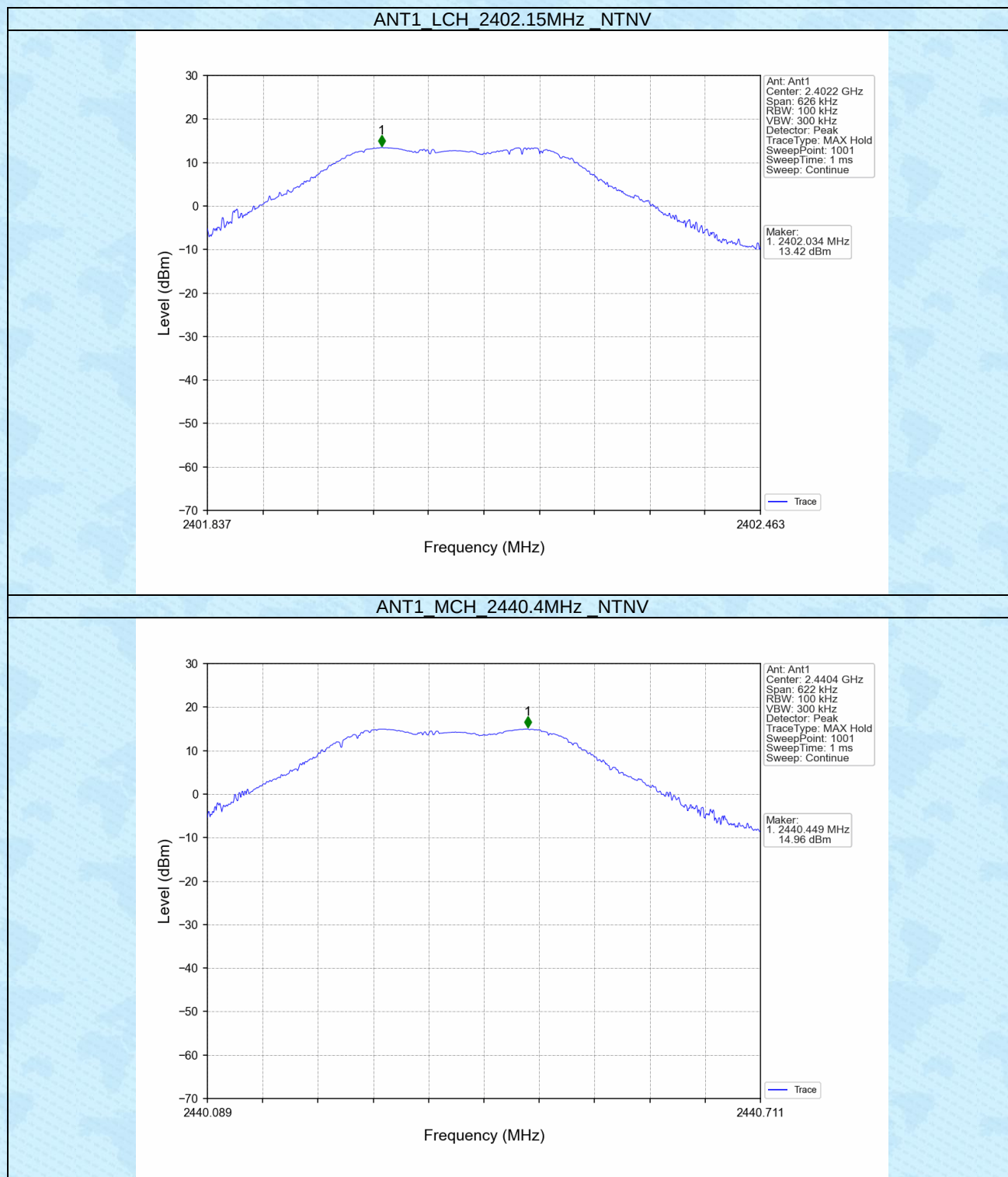
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
FHSS	SISO	2402.15	ANT1	13.42
		2440.4	ANT1	14.96
		2479.85	ANT1	14.36
	SISO	2402.15	ANT2	13.63
		2440.4	ANT2	15.12
		2479.85	ANT2	14.55

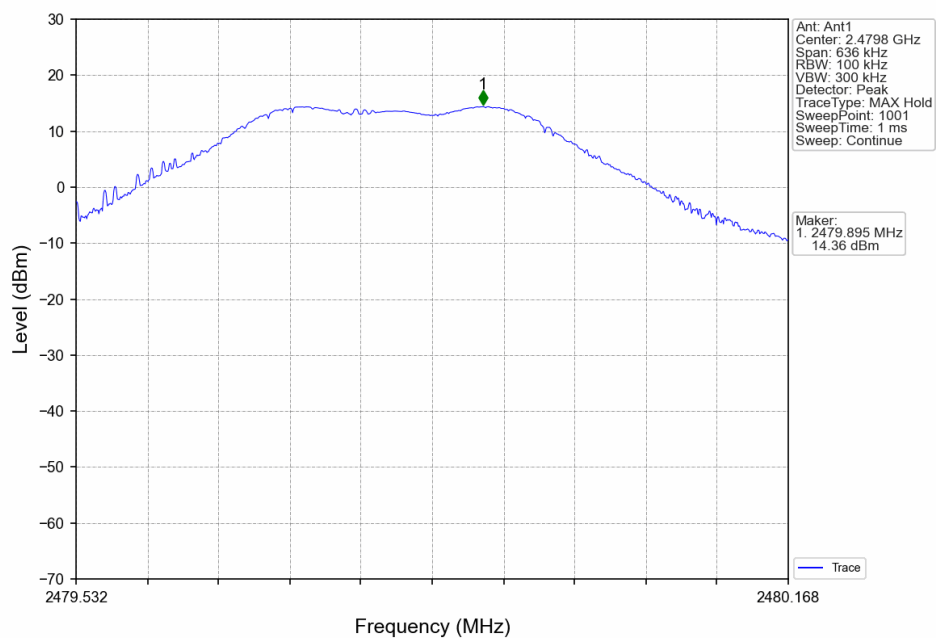
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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.

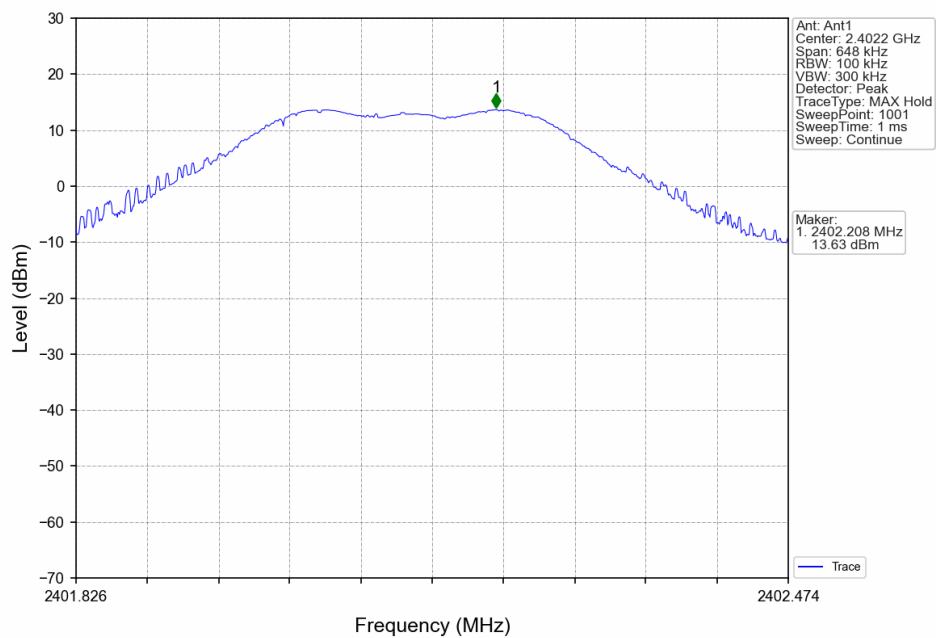
6.1.2 Test Graph



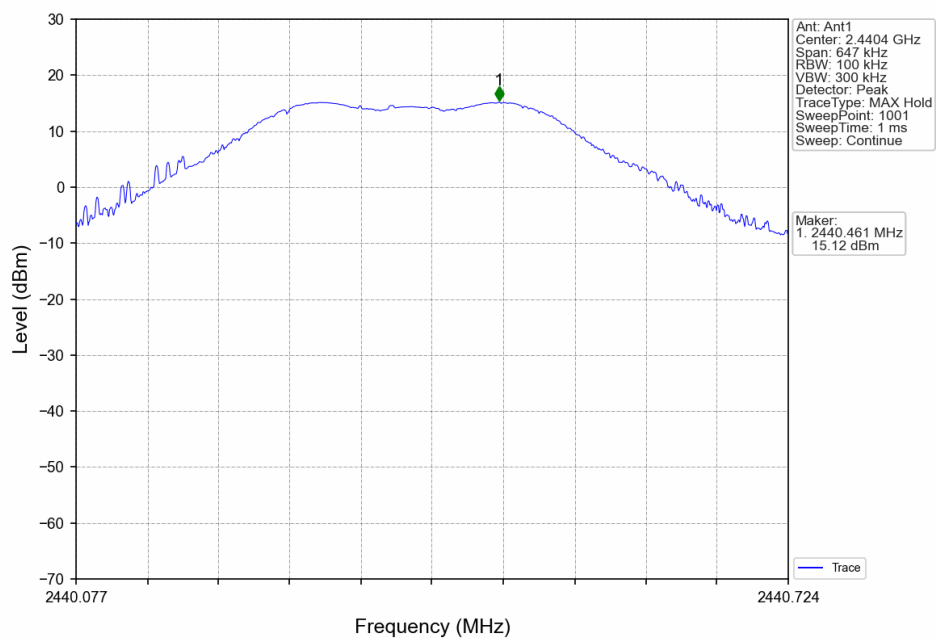
ANT1_HCH_2479.85MHz_NTNV



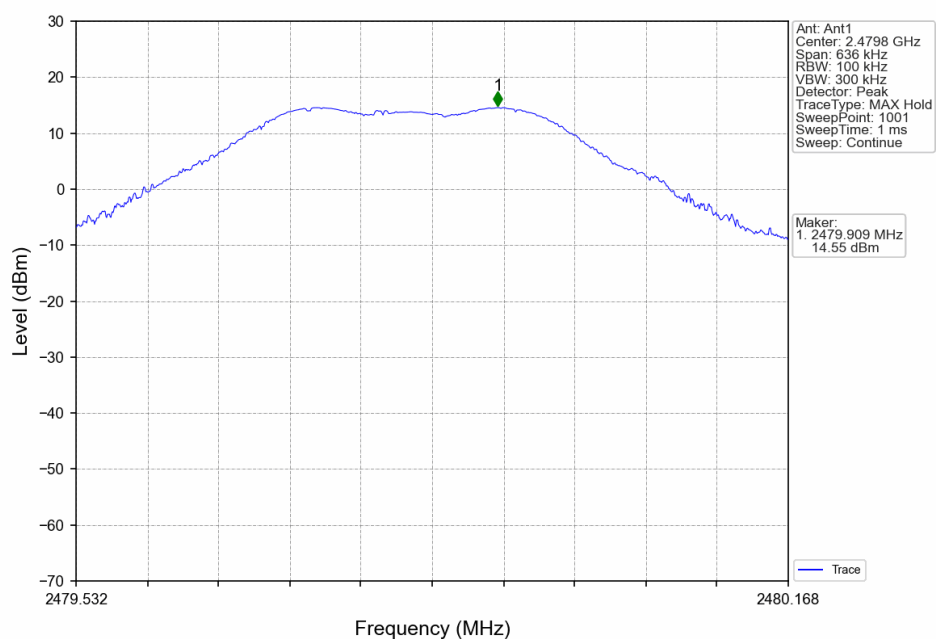
ANT2_LCH_2402.15MHz_NTNV



ANT2_MCH_2440.4MHz_NTNV



ANT2_HCH_2479.85MHz_NTNV



6.2 CSE

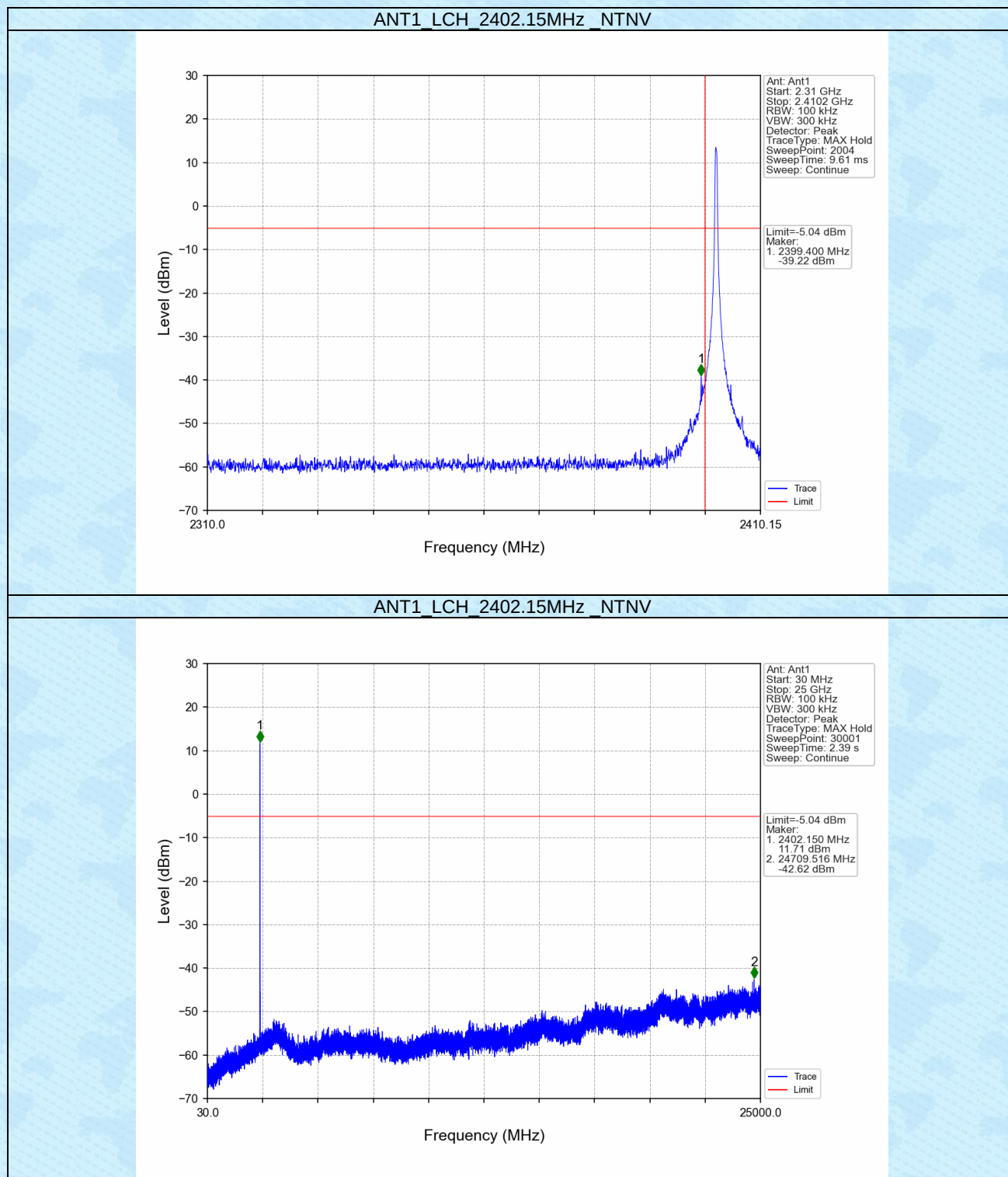
6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
FHSS	SISO	2402.15	ANT1	14.96	-5.04	Pass
		2440.4	ANT1	14.96	-5.04	Pass
		2479.85	ANT1	14.96	-5.04	Pass
		HOPP	ANT1	14.96	-5.04	Pass
	SISO	2402.15	ANT2	15.12	-4.88	Pass
		2440.4	ANT2	15.12	-4.88	Pass
		2479.85	ANT2	15.12	-4.88	Pass
		HOPP	ANT2	15.12	-4.88	Pass

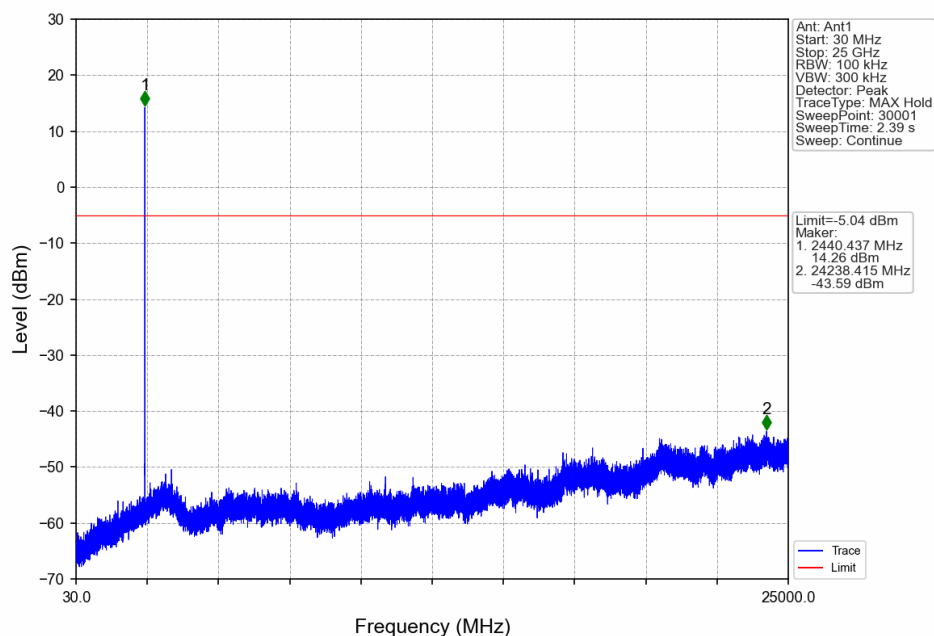
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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.

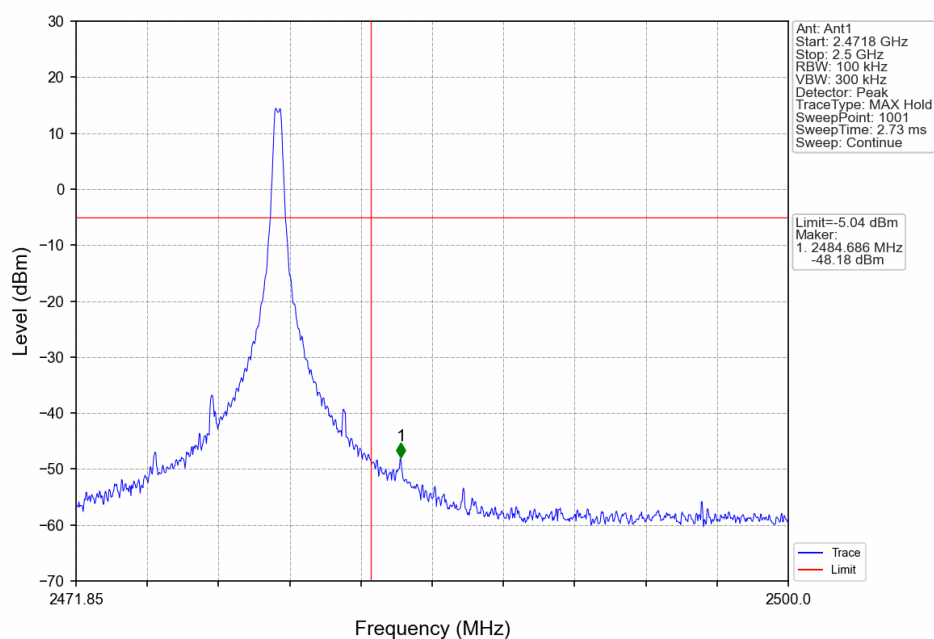
6.2.2 Test Graph



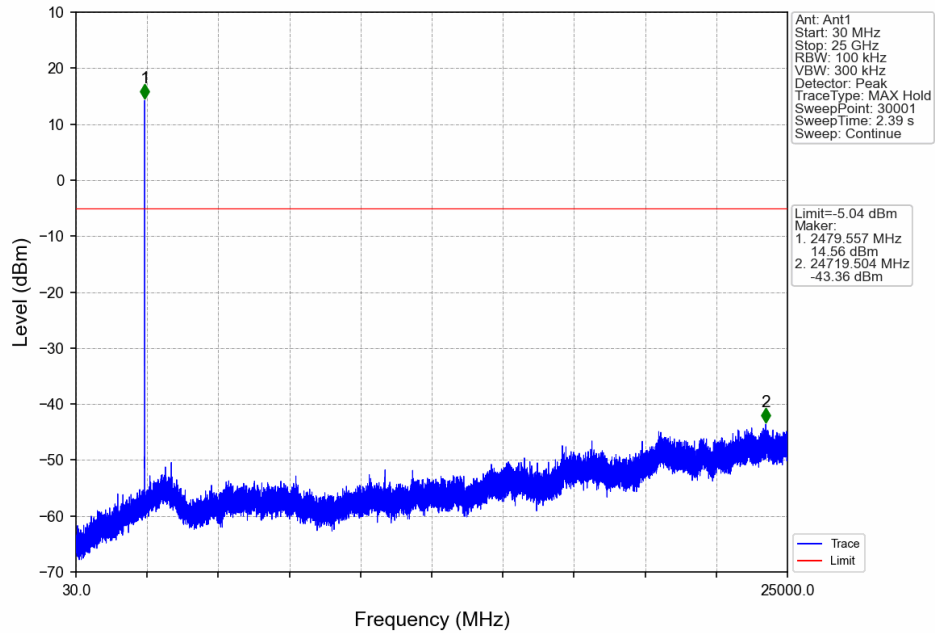
ANT1_MCH_2440.4MHz_NTNV



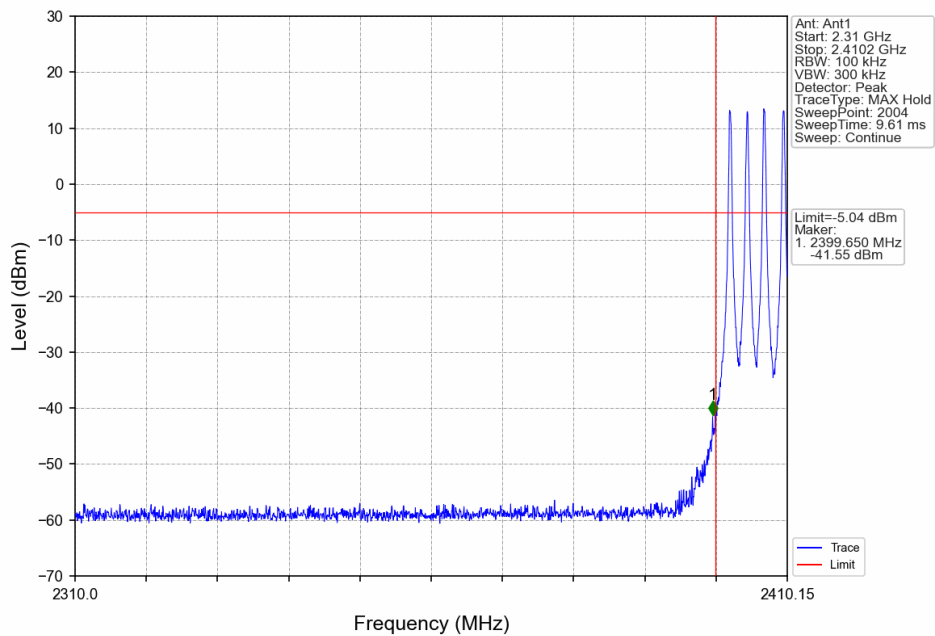
ANT1_HCH_2479.85MHz_NTNV



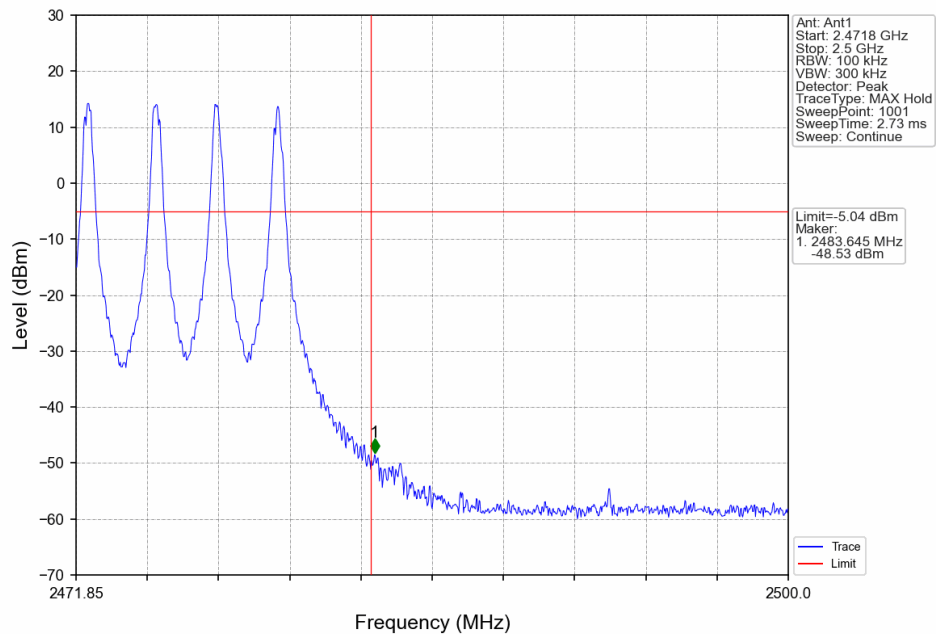
ANT1_HCH_2479.85MHz_NTNV



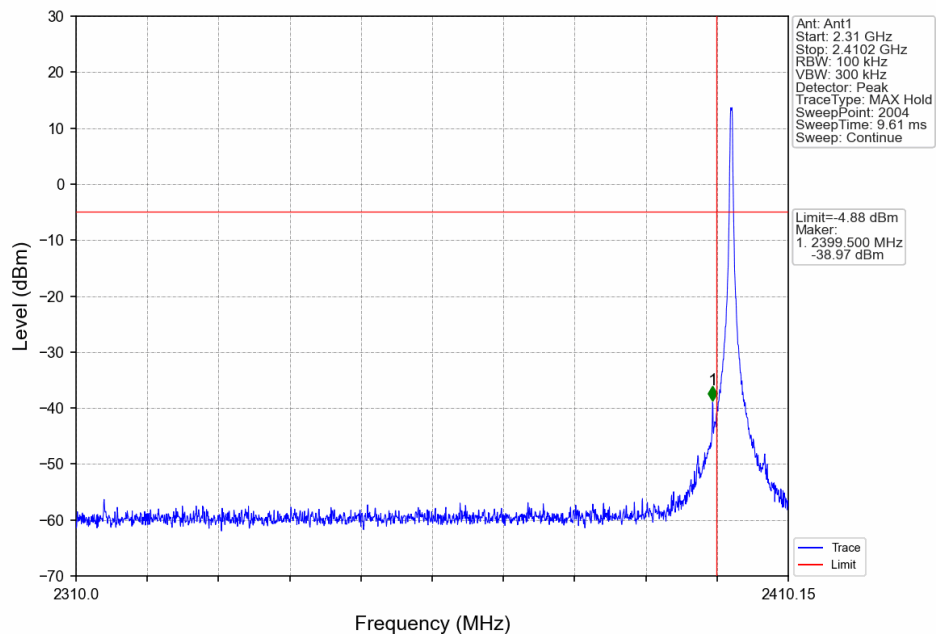
ANT1_HOPP_NTNV



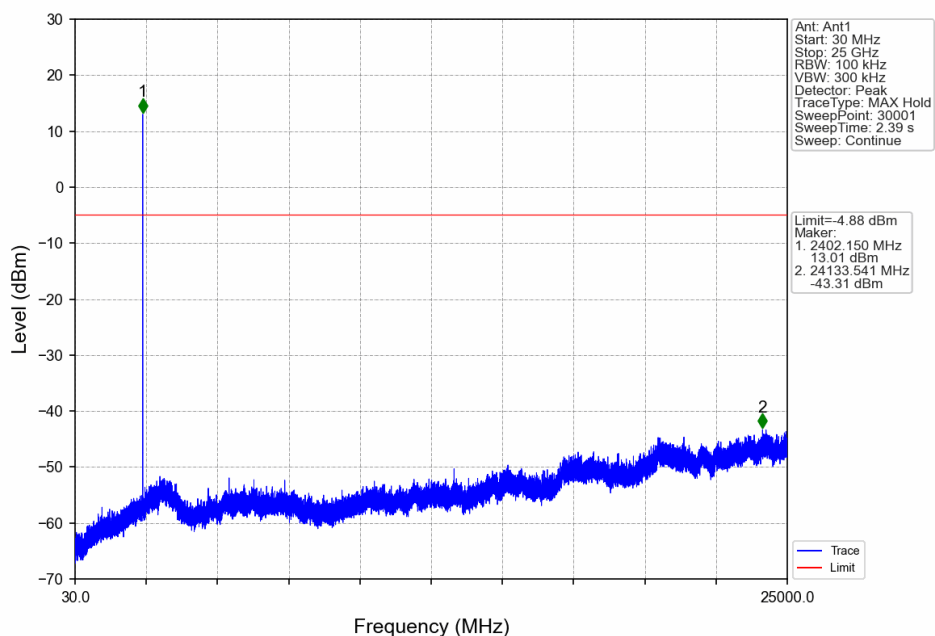
ANT1_HOPP_NTNV



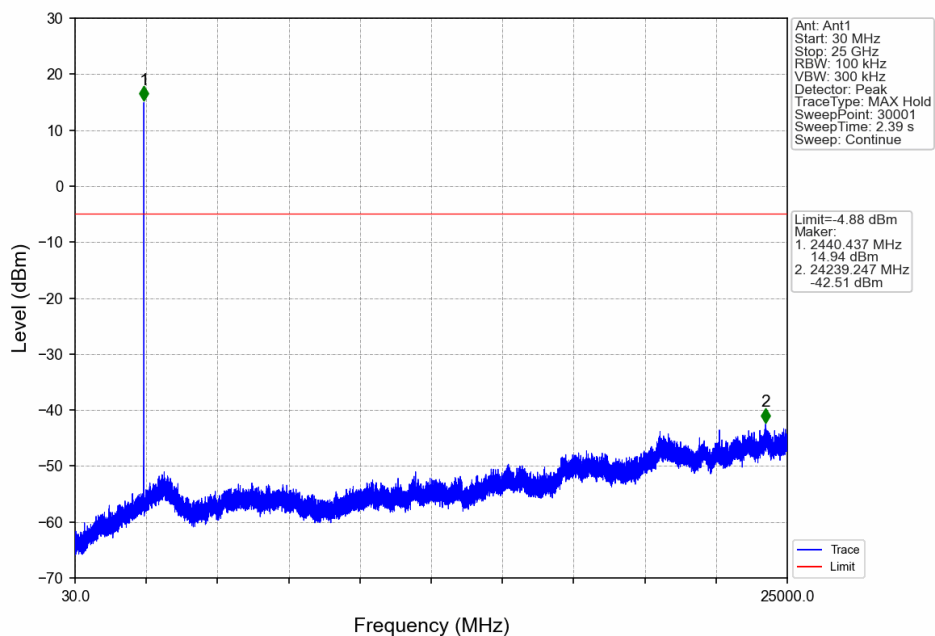
ANT2_LCH_2402.15MHz_NTNV



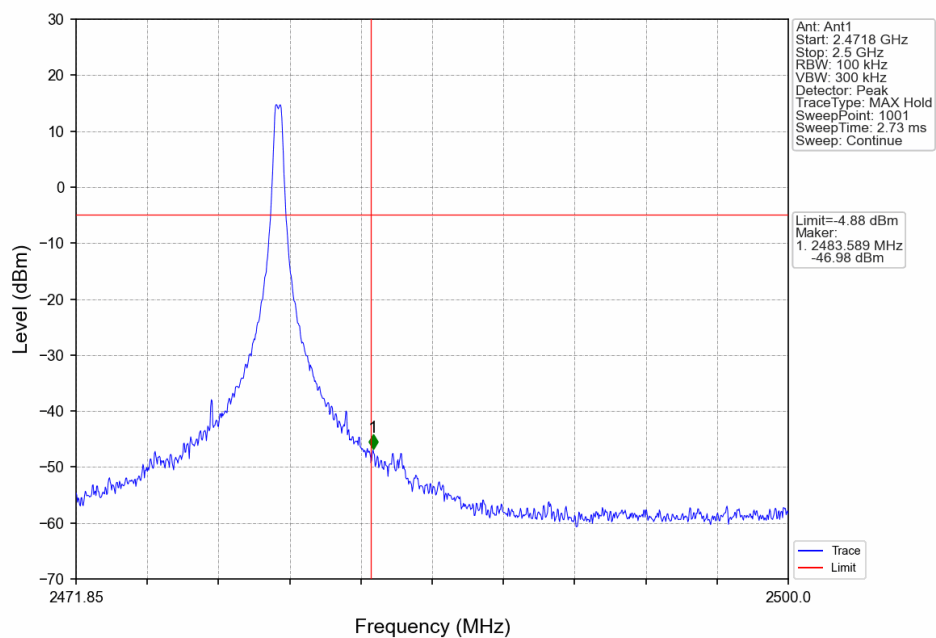
ANT2_LCH_2402.15MHz_NTNV



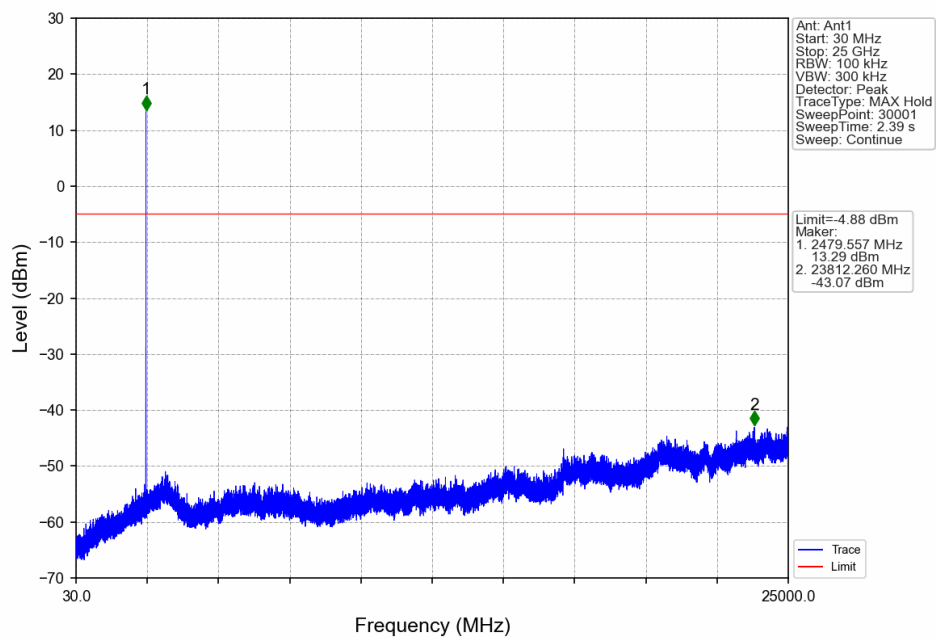
ANT2_MCH_2440.4MHz_NTNV

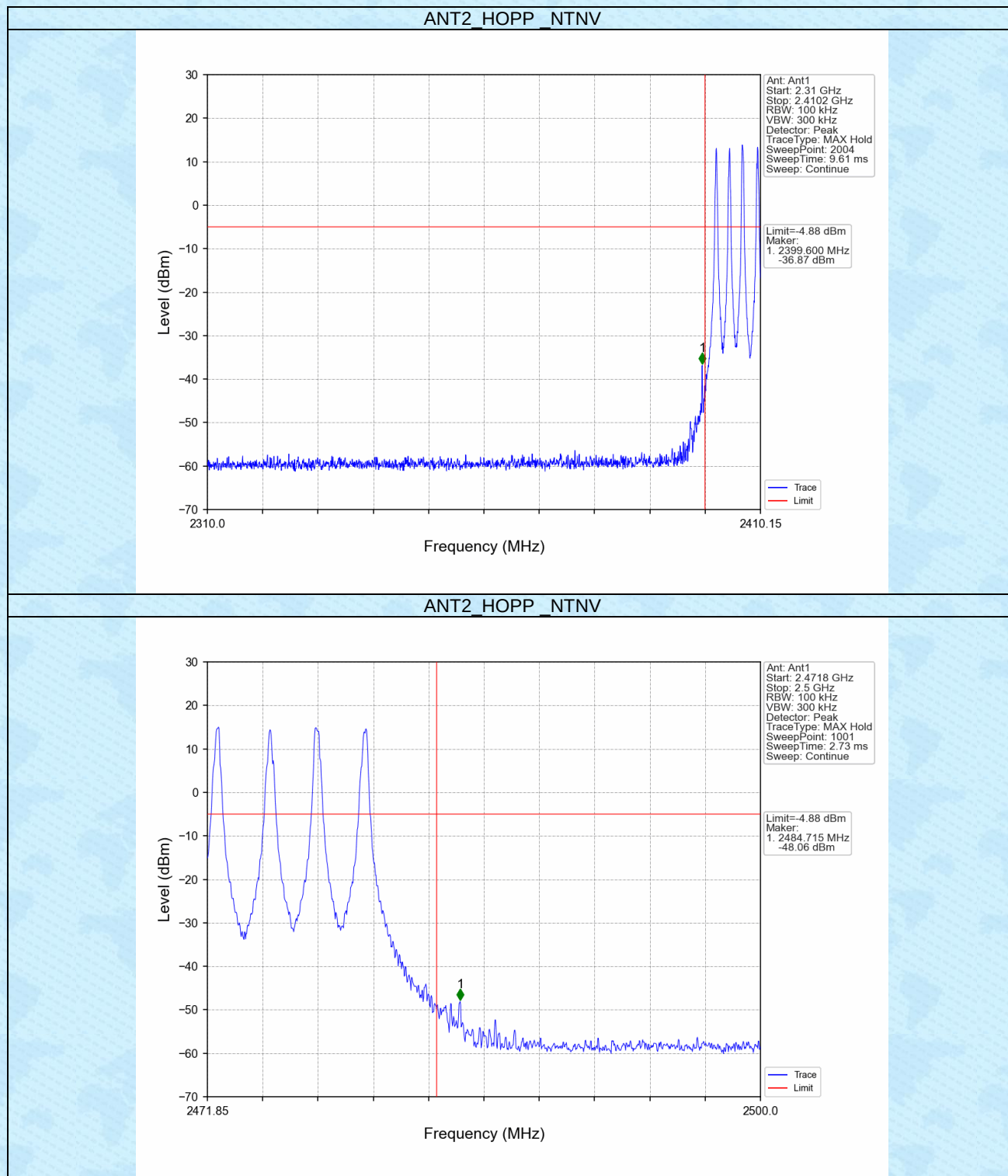


ANT2_HCH_2479.85MHz_NTNV



ANT2_HCH_2479.85MHz_NTNV





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