

Appendix RF Test Data for 2.4G

Company: : Guangzhou Zhiying Technology Co., Ltd

EUT : Wireless Intercom Base Station

FCC ID: : 2AXWL-XSTATION

Model Number : Xtalk XStation

Report No. : HTT2026061117F01

Reviewed By : Heber He

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
SRD	SISO	2402	1	2.028	/	Pass
		2440	1	2.033	/	Pass
		2480	1	2.032	/	Pass

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
SRD	SISO	2402	2	2.009	/	Pass
		2440	2	2.025	/	Pass
		2480	2	2.031	/	Pass

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
SRD	SISO	2402	3	2.047	/	Pass
		2440	3	2.025	/	Pass
		2480	3	2.032	/	Pass

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
SRD	SISO	2402	4	2.012	/	Pass
		2440	4	2.036	/	Pass
		2480	4	2.014	/	Pass

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
SRD	SISO	2402	5	2.011	/	Pass
		2440	5	2.053	/	Pass
		2480	5	2.029	/	Pass

1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
SRD	SISO	2402	1	2.346	/	Pass
		2440	1	2.247	/	Pass
		2480	1	2.303	/	Pass

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
SRD	SISO	2402	2	2.352	/	Pass
		2440	2	2.283	/	Pass
		2480	2	2.311	/	Pass

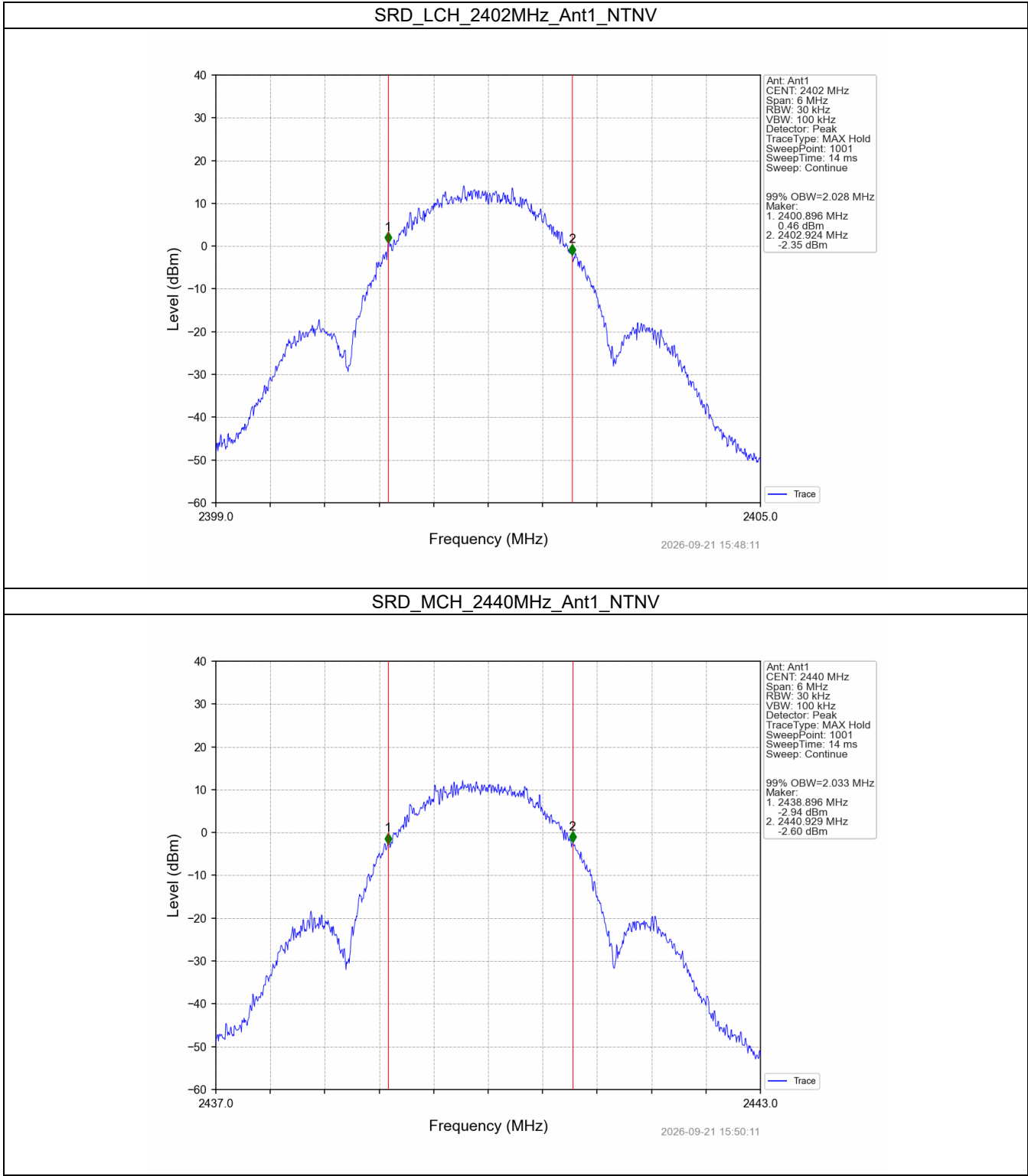
Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
SRD	SISO	2402	3	2.307	/	Pass
		2440	3	2.340	/	Pass
		2480	3	2.276	/	Pass

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
SRD	SISO	2402	4	2.359	/	Pass
		2440	4	2.267	/	Pass
		2480	4	2.345	/	Pass

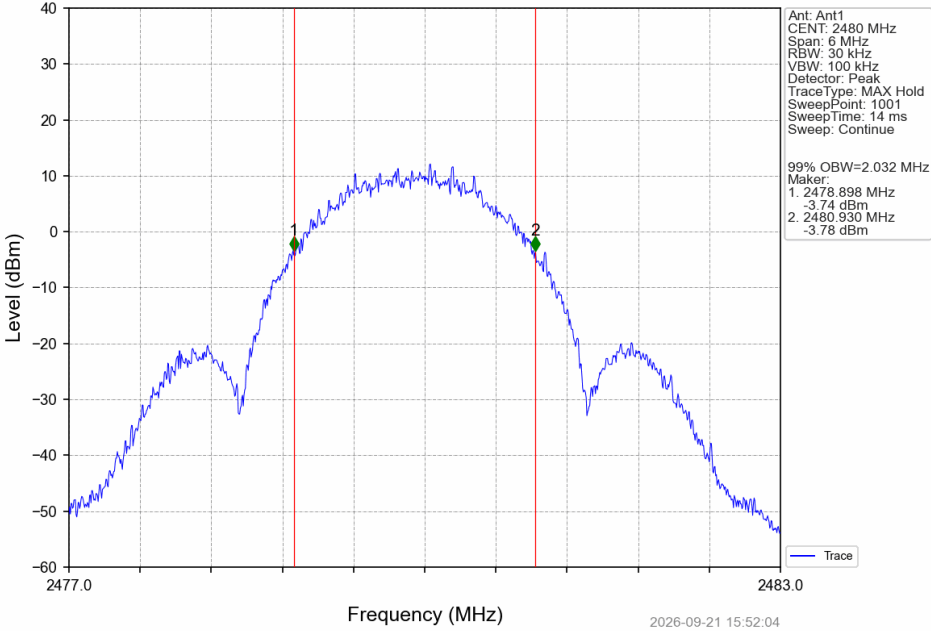
Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
SRD	SISO	2402	5	2.318	/	Pass
		2440	5	2.325	/	Pass
		2480	5	2.319	/	Pass

1.2 Test Graph

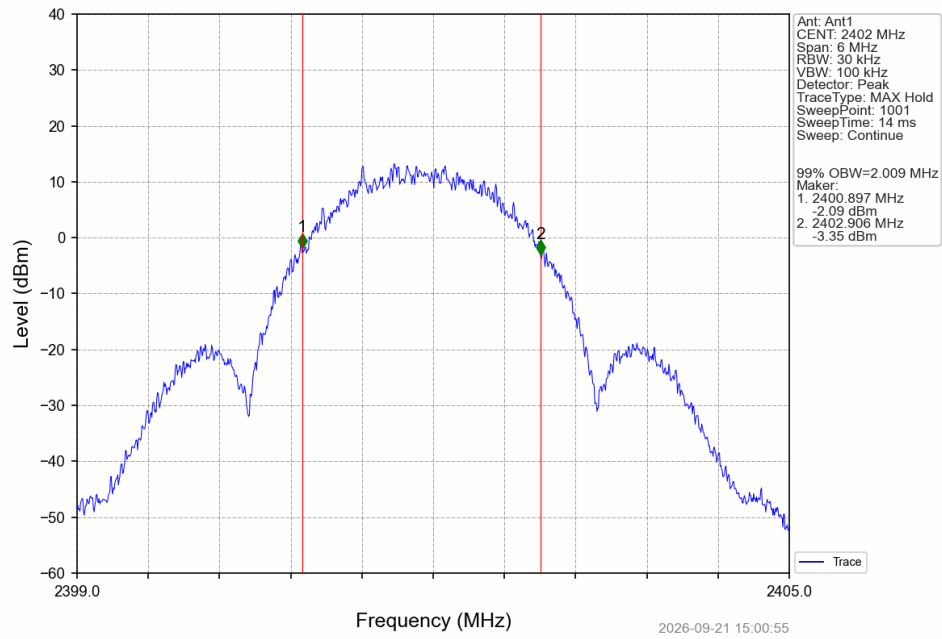
1.2.1 OBW



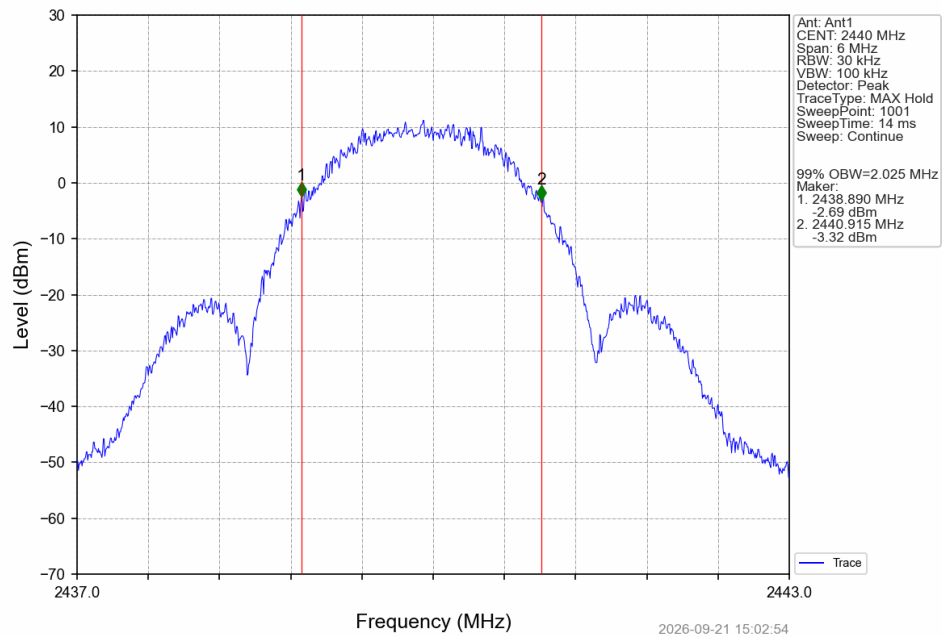
SRD_HCH_2480MHz_Ant1_NTNV



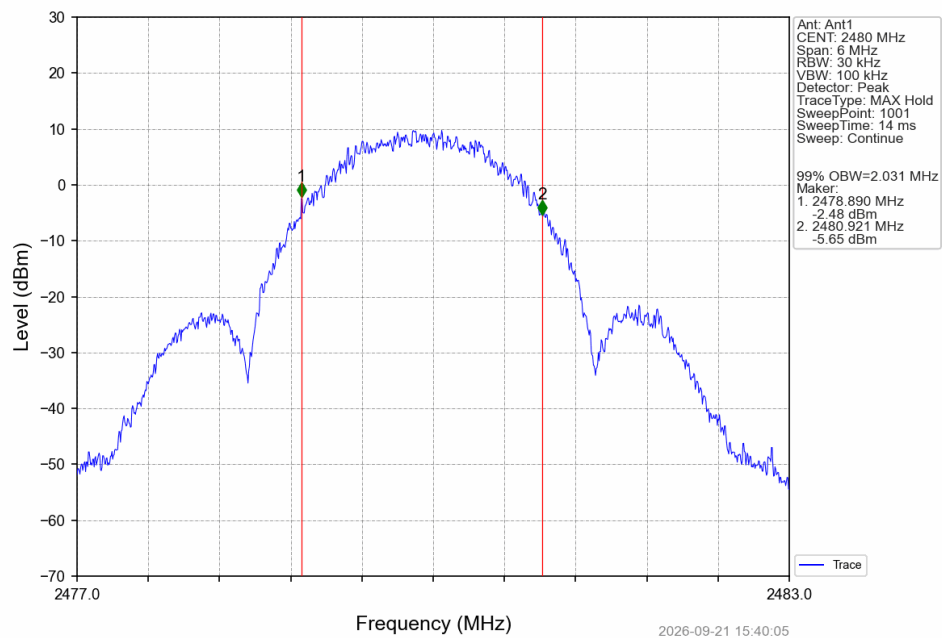
SRD_LCH_2402MHz_Ant2_NTNV



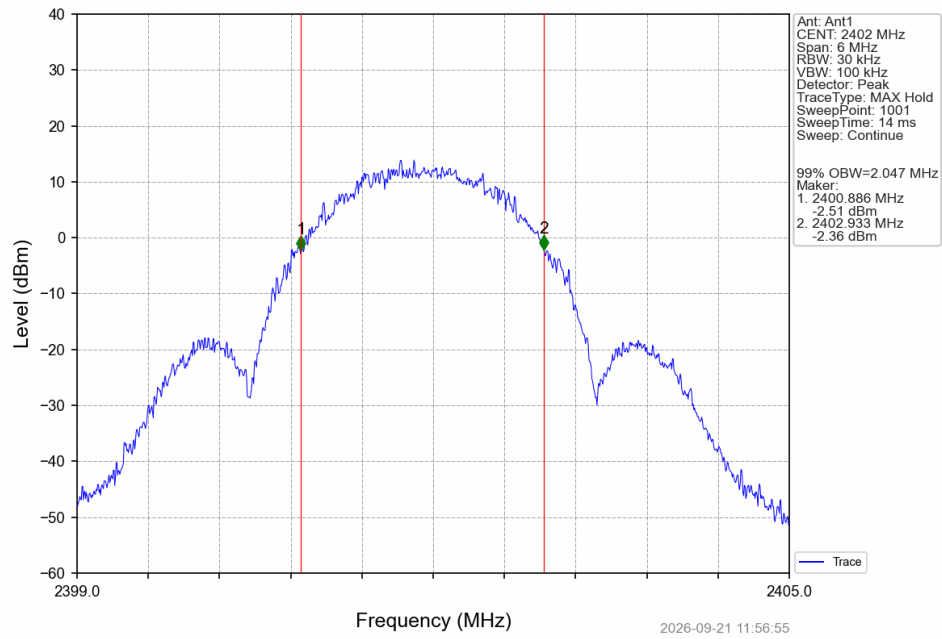
SRD_MCH_2440MHz_Ant2_NTNV



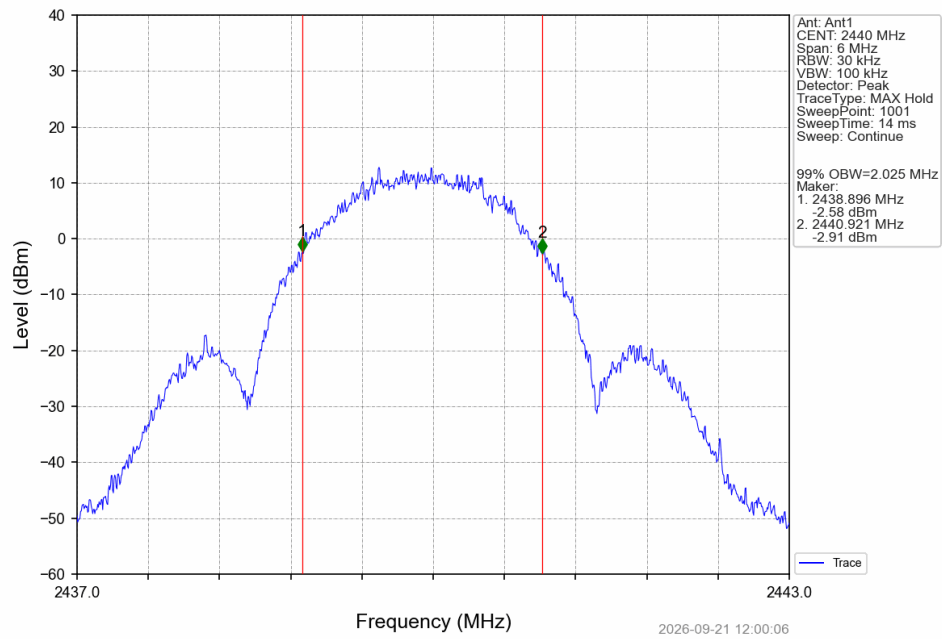
SRD_HCH_2480MHz_Ant2_NTNV



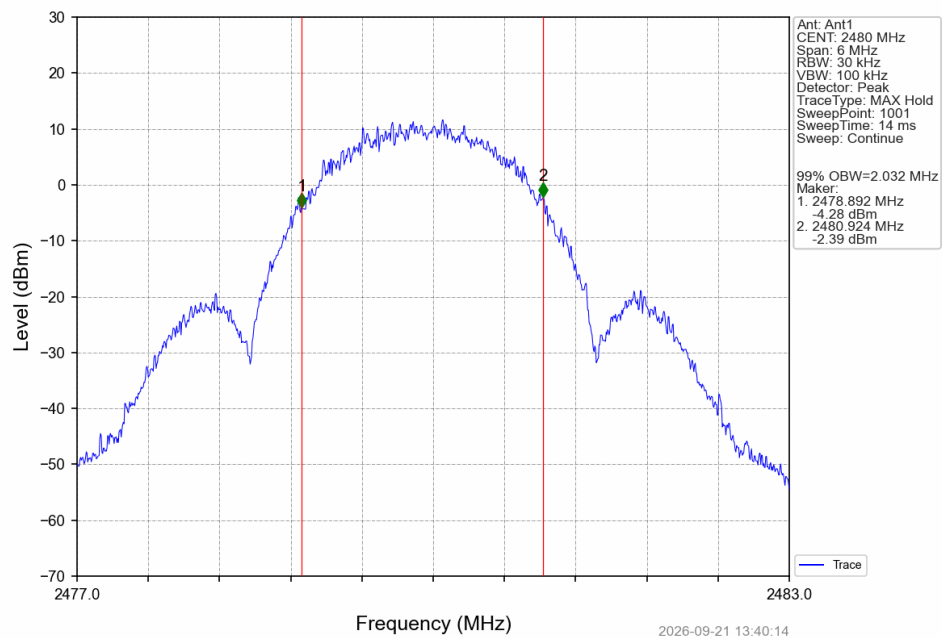
SRD_LCH_2402MHz_Ant3_NTNV



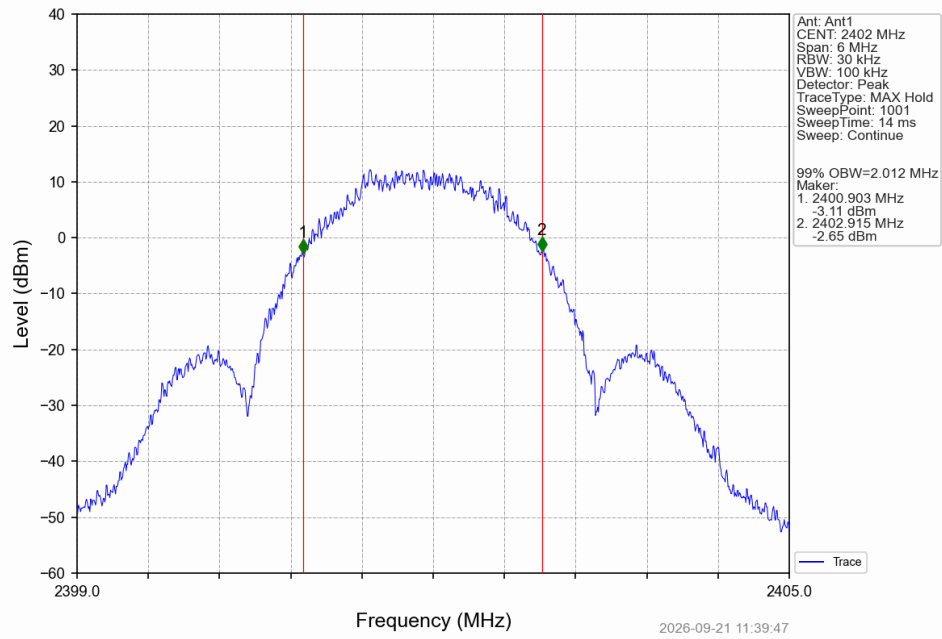
SRD_MCH_2440MHz_Ant3_NTNV



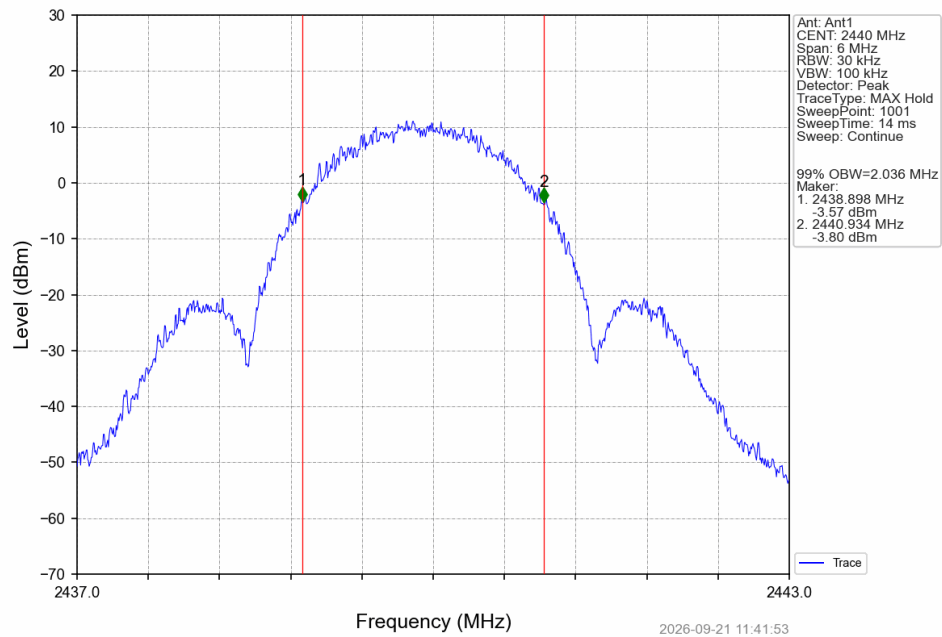
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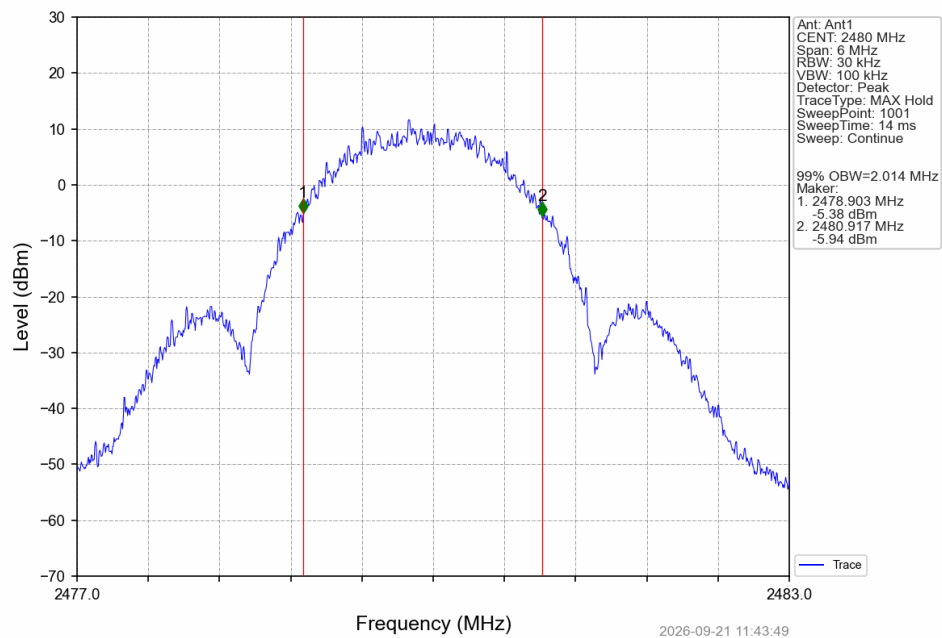
SRD_LCH_2402MHz_Ant4_NTNV



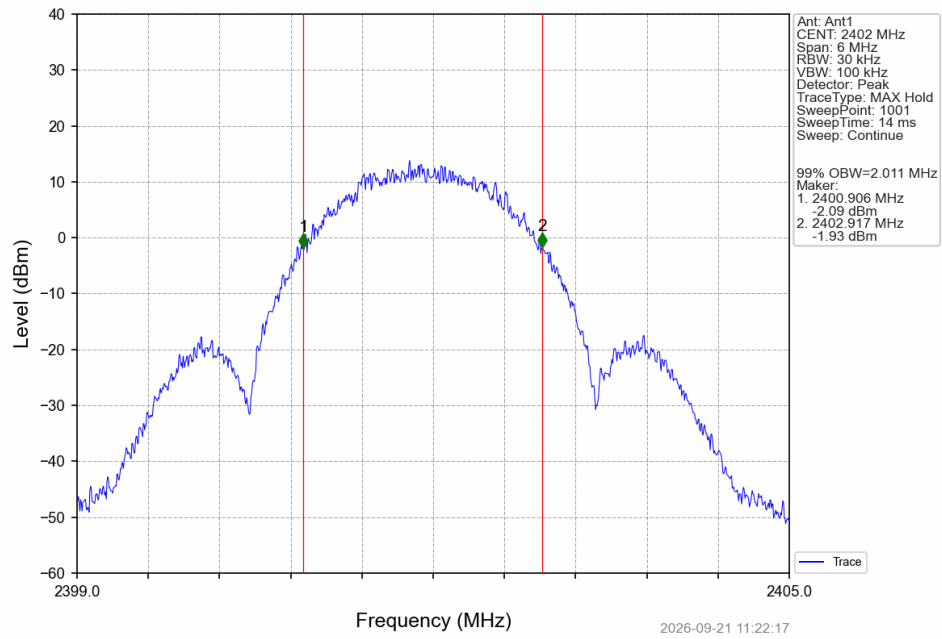
SRD_MCH_2440MHz_Ant4_NTNV



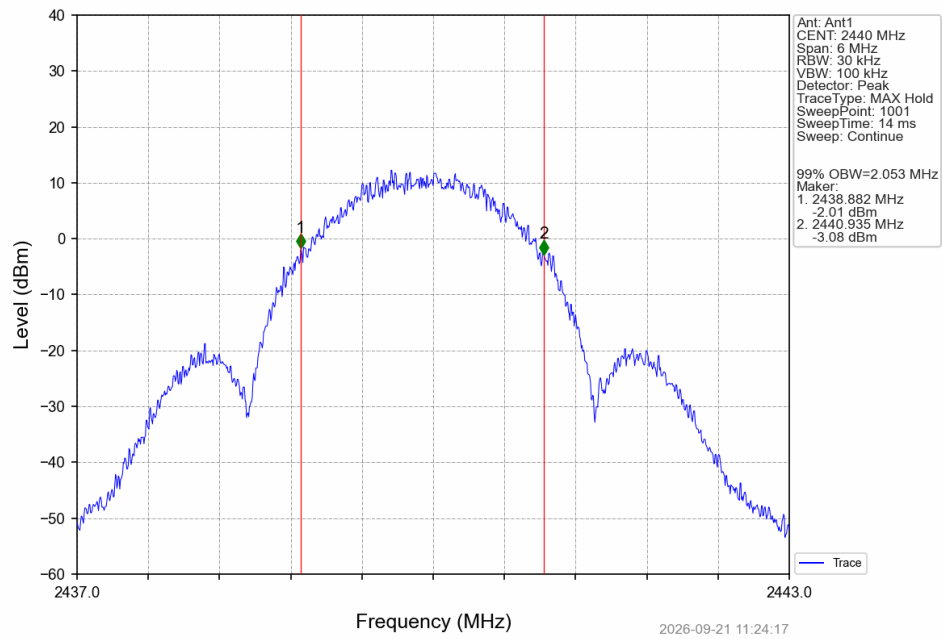
SRD_HCH_2480MHz_Ant4_NTNV



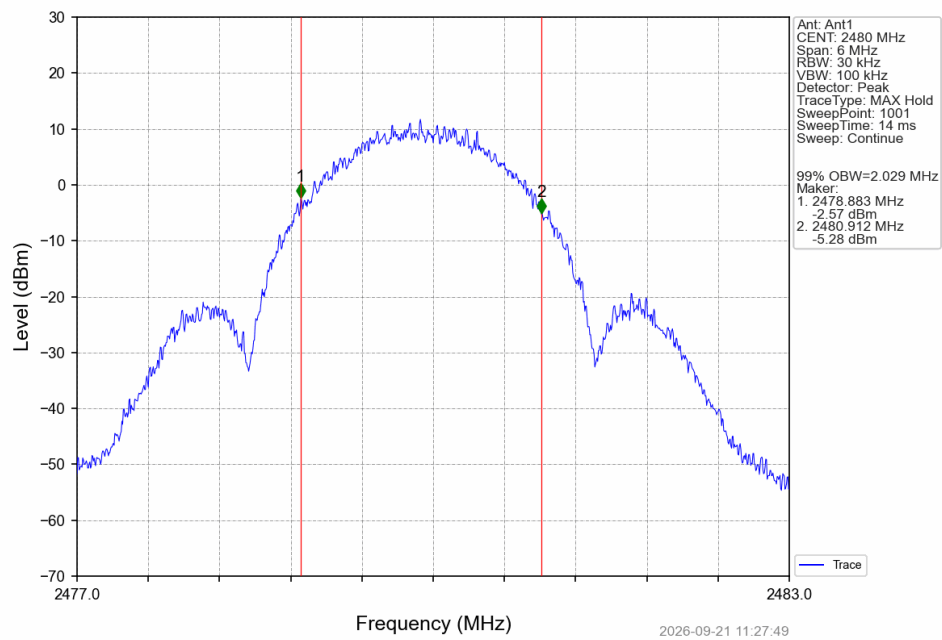
SRD_LCH_2402MHz_Ant5_NTNV



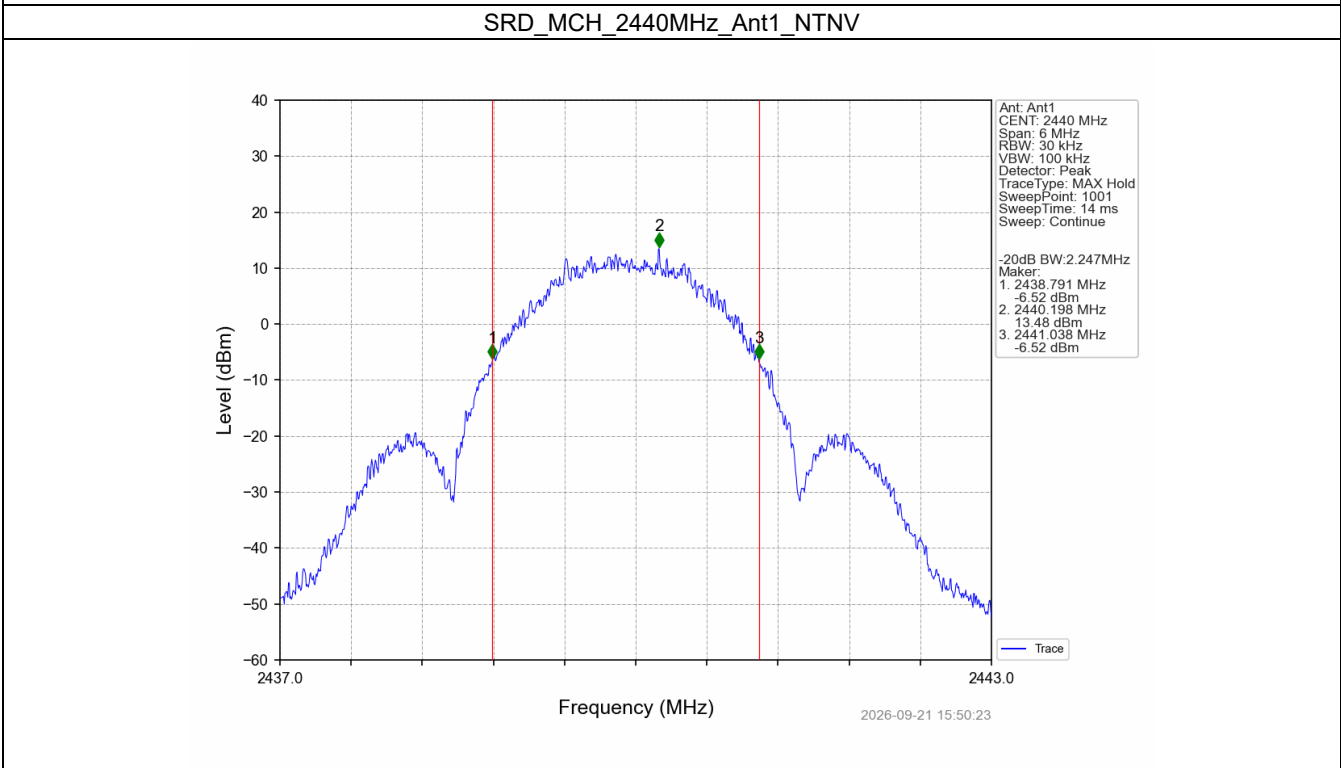
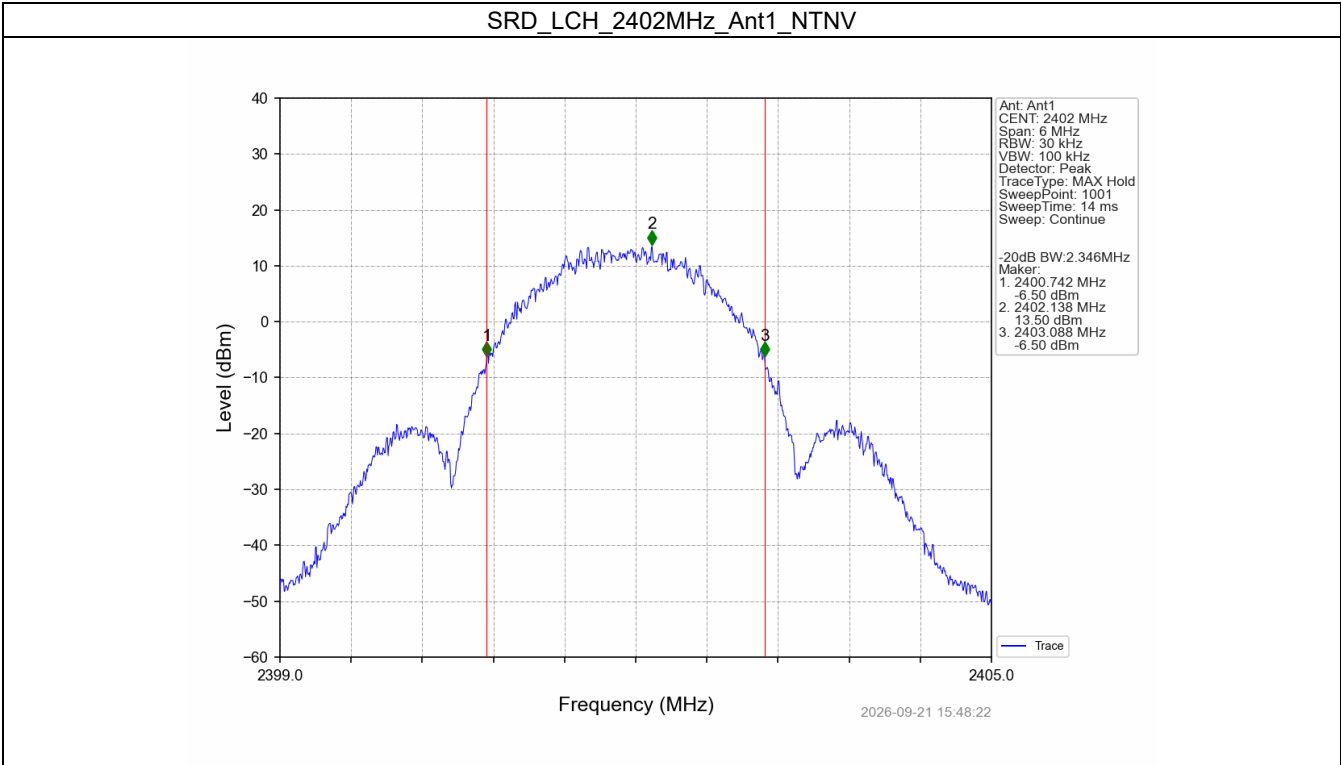
SRD_MCH_2440MHz_Ant5_NTNV



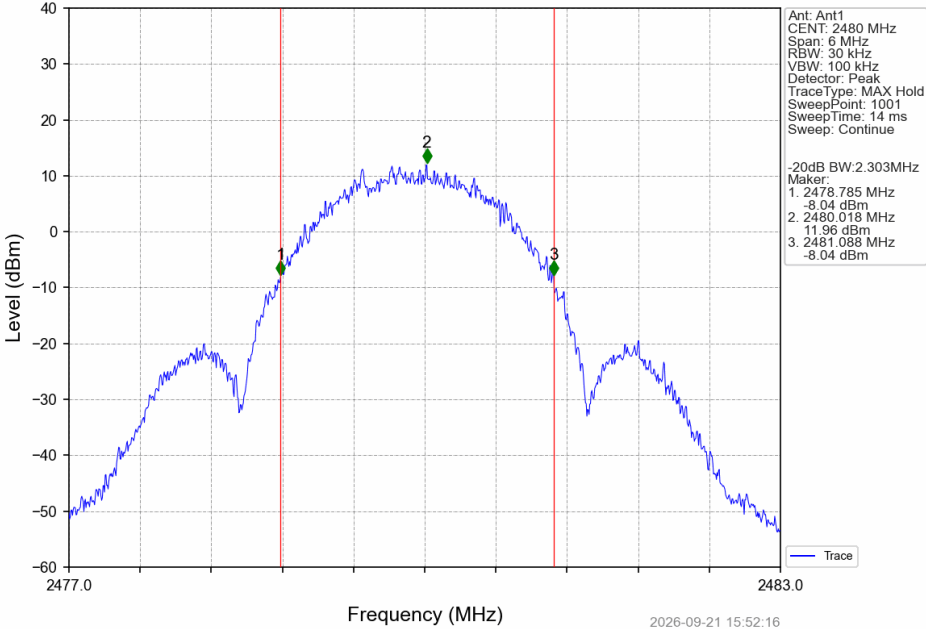
SRD_HCH_2480MHz_Ant5_NTNV



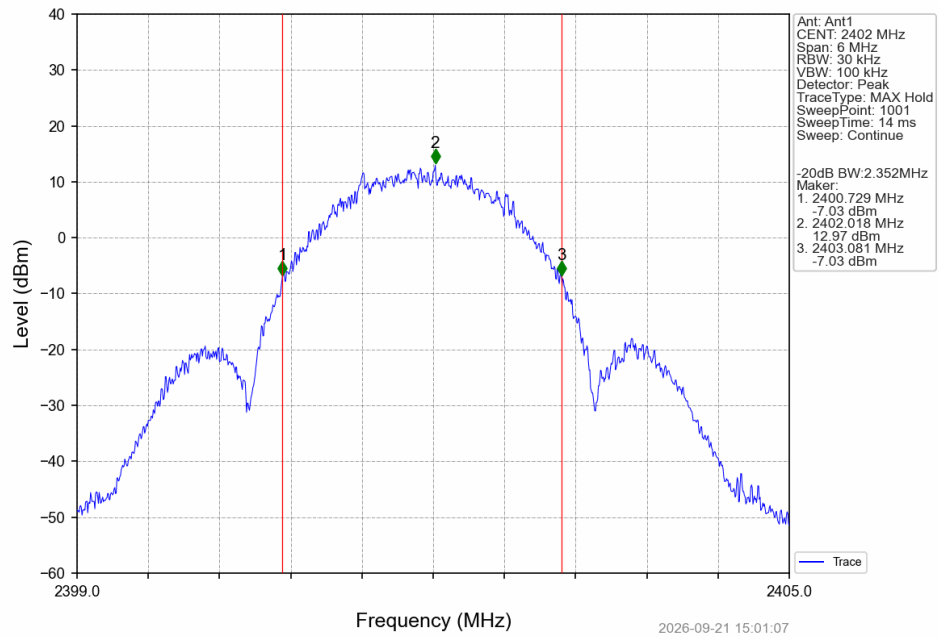
1.2.2 20dB BW



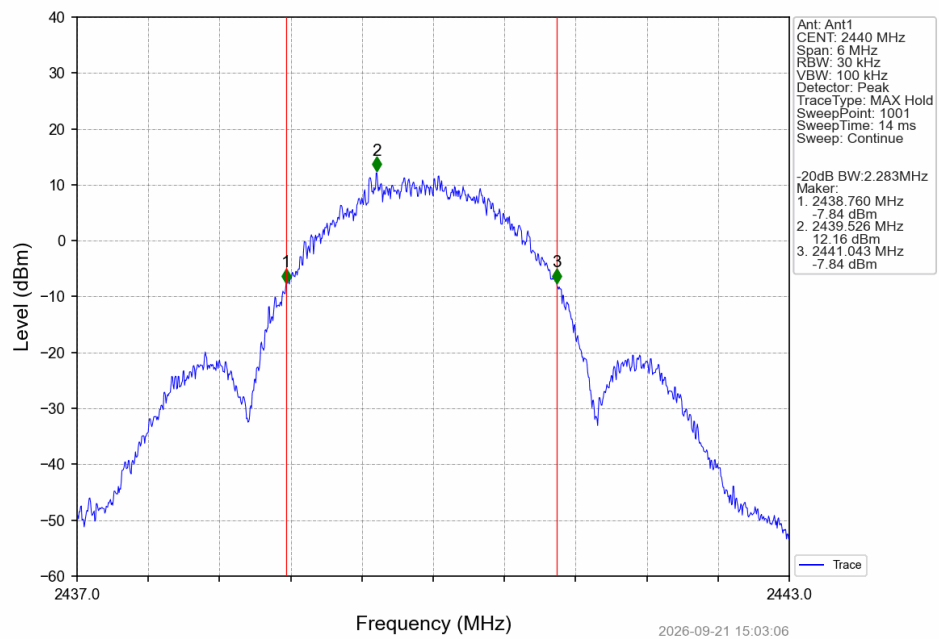
SRD_HCH_2480MHz_Ant1_NTNV



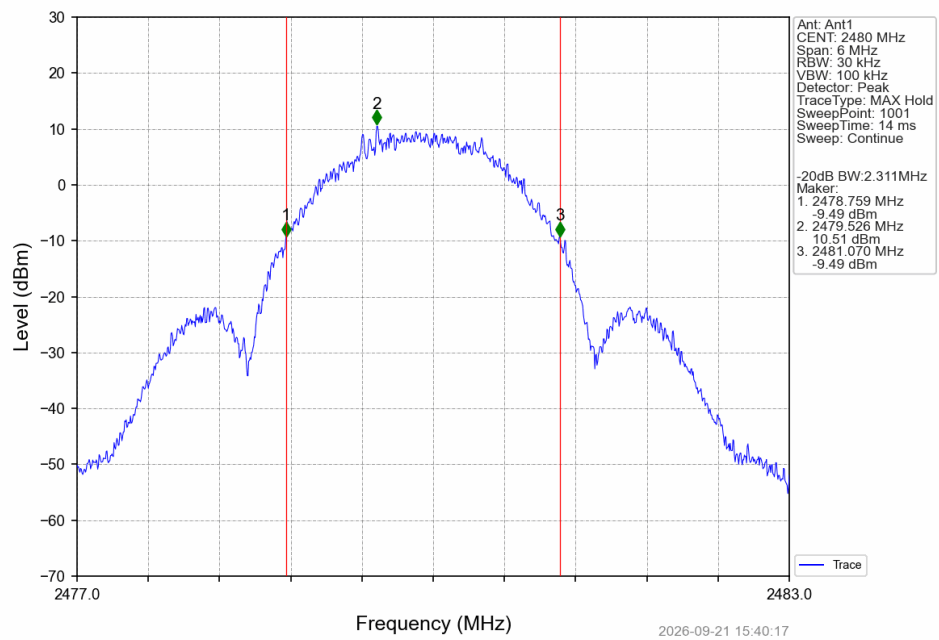
SRD_LCH_2402MHz_Ant2_NTNV



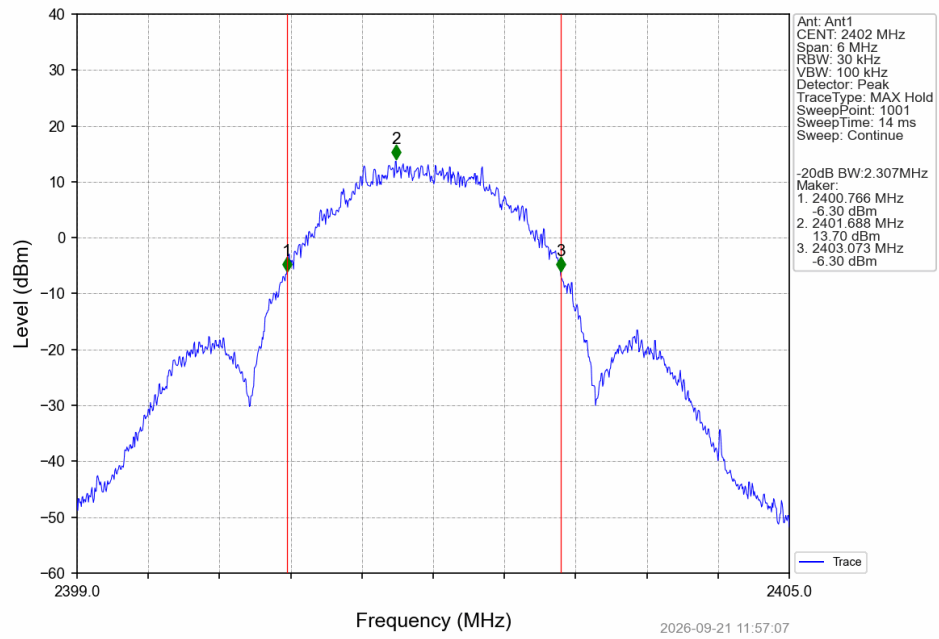
SRD_MCH_2440MHz_Ant2_NTNV



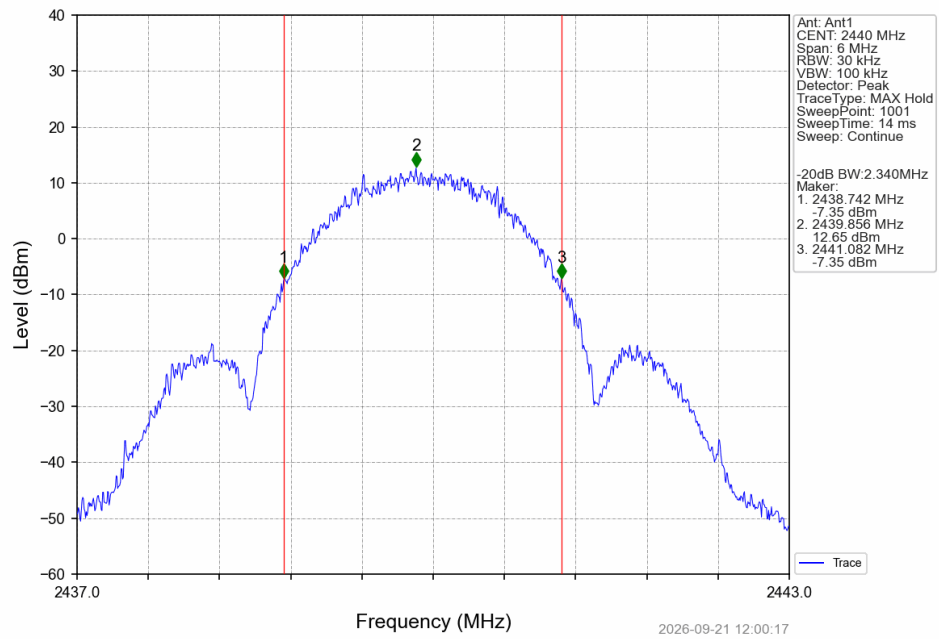
SRD_HCH_2480MHz_Ant2_NTNV



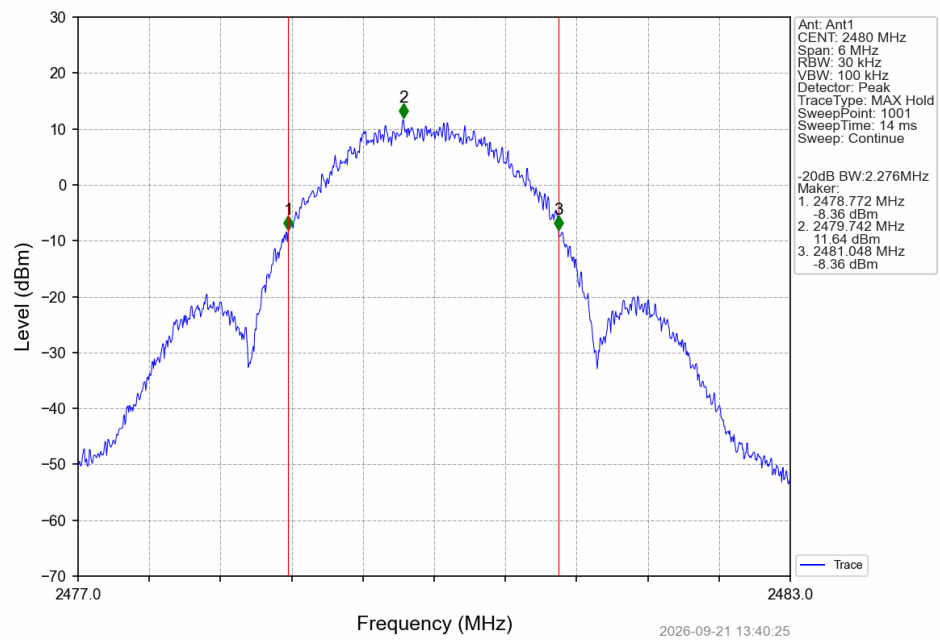
SRD_LCH_2402MHz_Ant3_NTNV



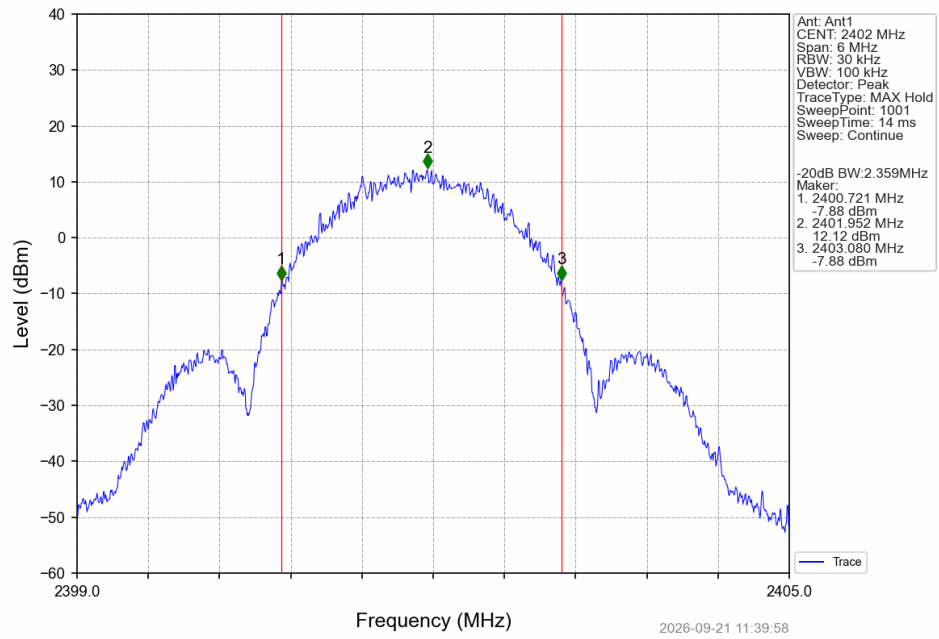
SRD_MCH_2440MHz_Ant3_NTNV



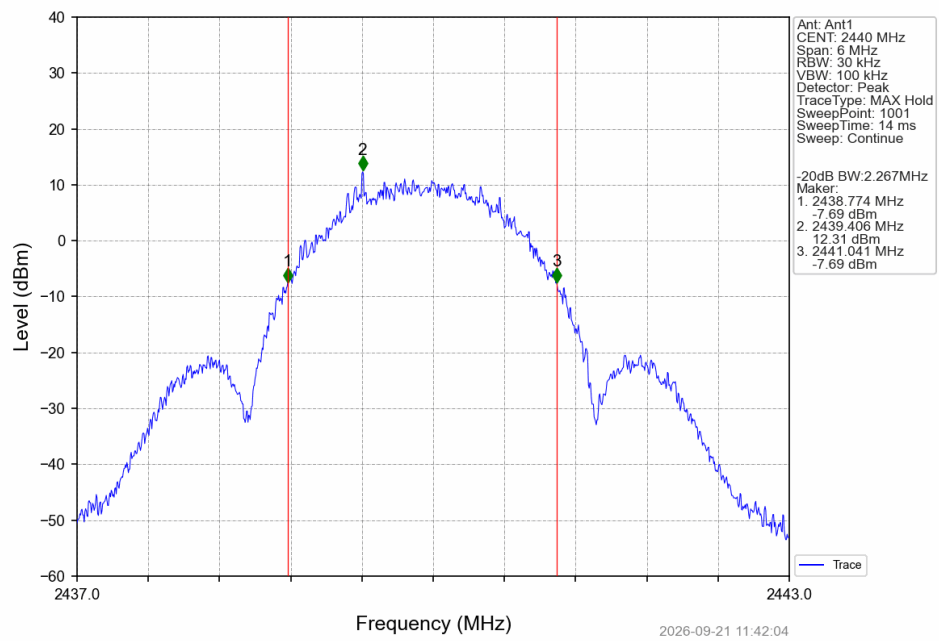
SRD_HCH_2480MHz_Ant3_NTNV



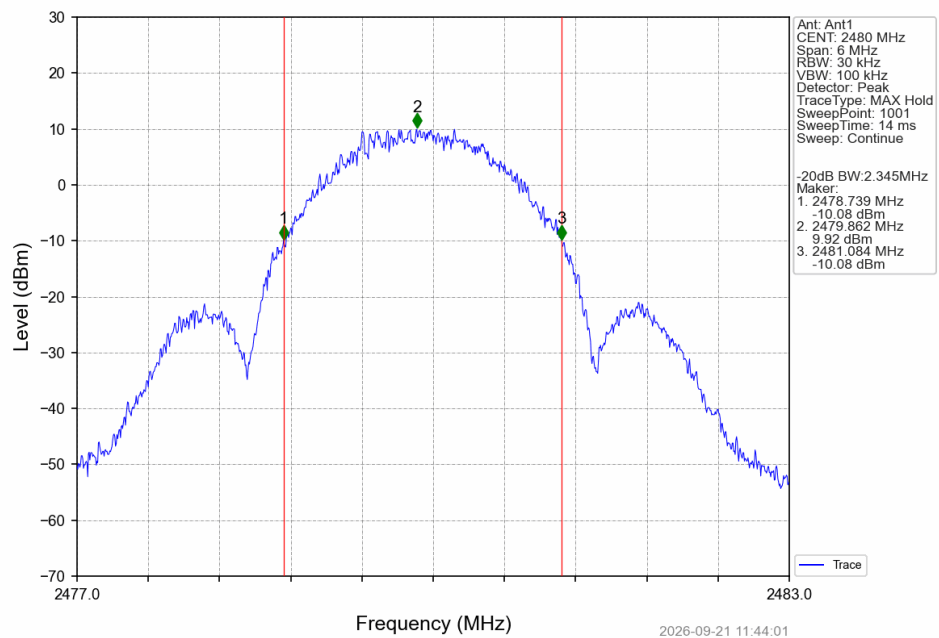
SRD_LCH_2402MHz_Ant4_NTNV



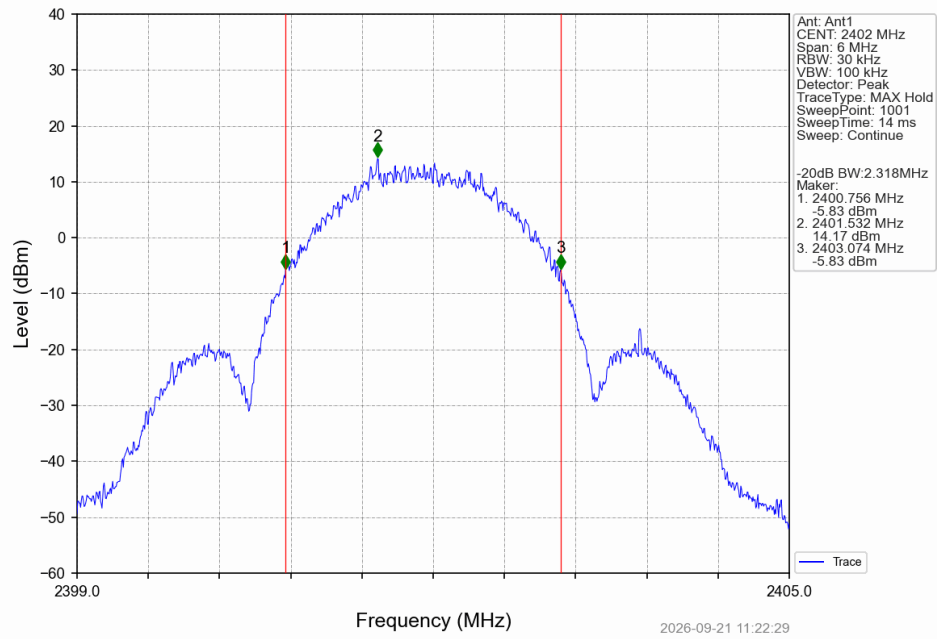
SRD_MCH_2440MHz_Ant4_NTNV



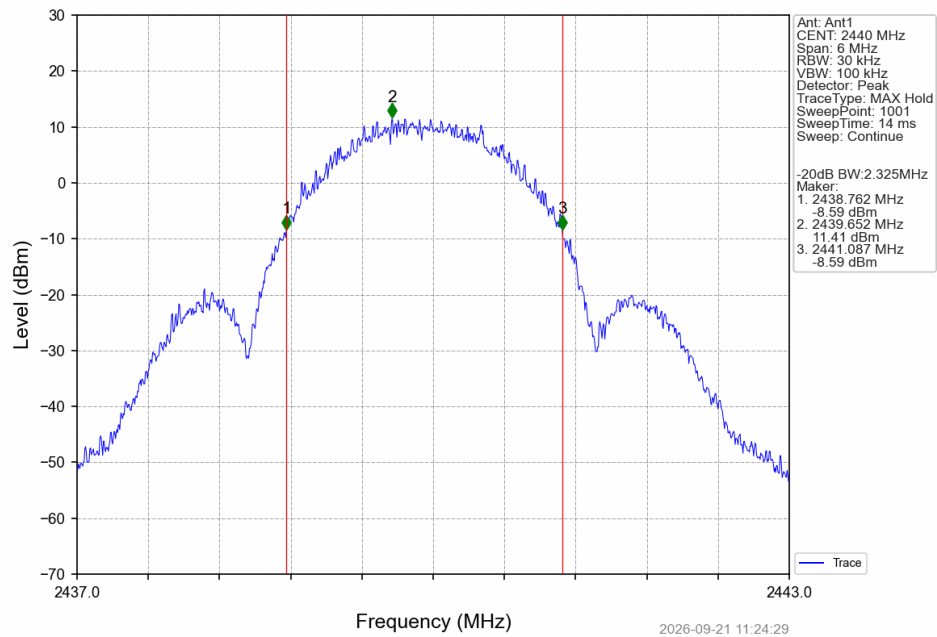
SRD_HCH_2480MHz_Ant4_NTNV



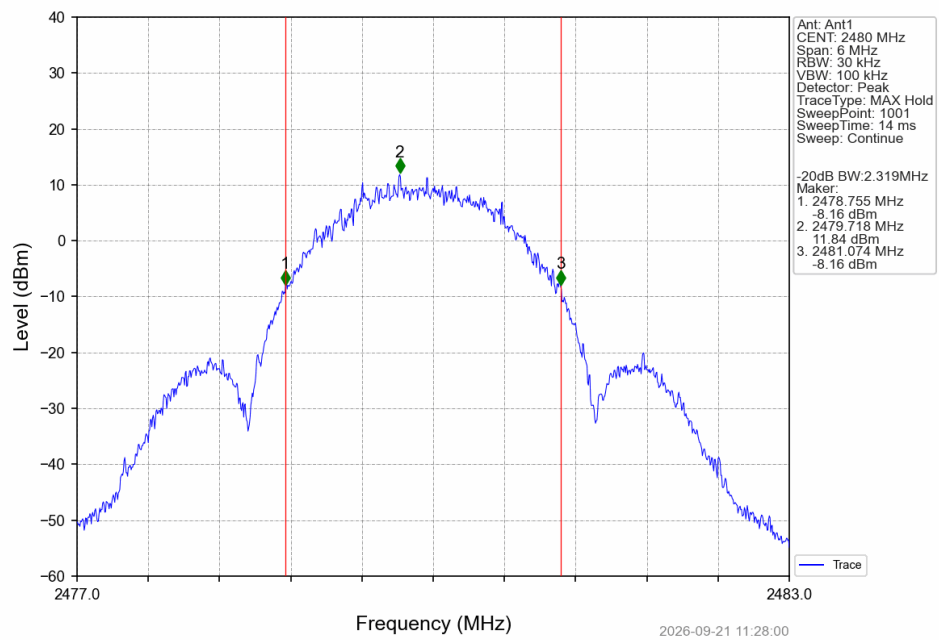
SRD_LCH_2402MHz_Ant5_NTNV



SRD_MCH_2440MHz_Ant5_NTNV



SRD_HCH_2480MHz_Ant5_NTNV



2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
SRD	SISO	2402	18.72	<=20.97	Pass
		2440	17.52	<=20.97	Pass
		2480	16.38	<=20.97	Pass

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant2	Limit	
SRD	SISO	2402	17.67	<=20.97	Pass
		2440	16.41	<=20.97	Pass
		2480	15.09	<=20.97	Pass

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant3	Limit	
SRD	SISO	2402	18.74	<=20.97	Pass
		2440	17.52	<=20.97	Pass
		2480	16.43	<=20.97	Pass

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant4	Limit	
SRD	SISO	2402	17.24	<=20.97	Pass
		2440	16.50	<=20.97	Pass
		2480	15.38	<=20.97	Pass

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant5	Limit	
SRD	SISO	2402	18.22	<=20.97	Pass
		2440	16.93	<=20.97	Pass
		2480	15.72	<=20.97	Pass

3. Carrier Frequency Separation

3.1 Test Result

3.1.1 Ant1

Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
SRD	SISO	HOPP	2.000	2.346	≥ 1.564	Pass

Ant2						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
SRD	SISO	HOPP	2.000	2.352	≥ 1.568	Pass

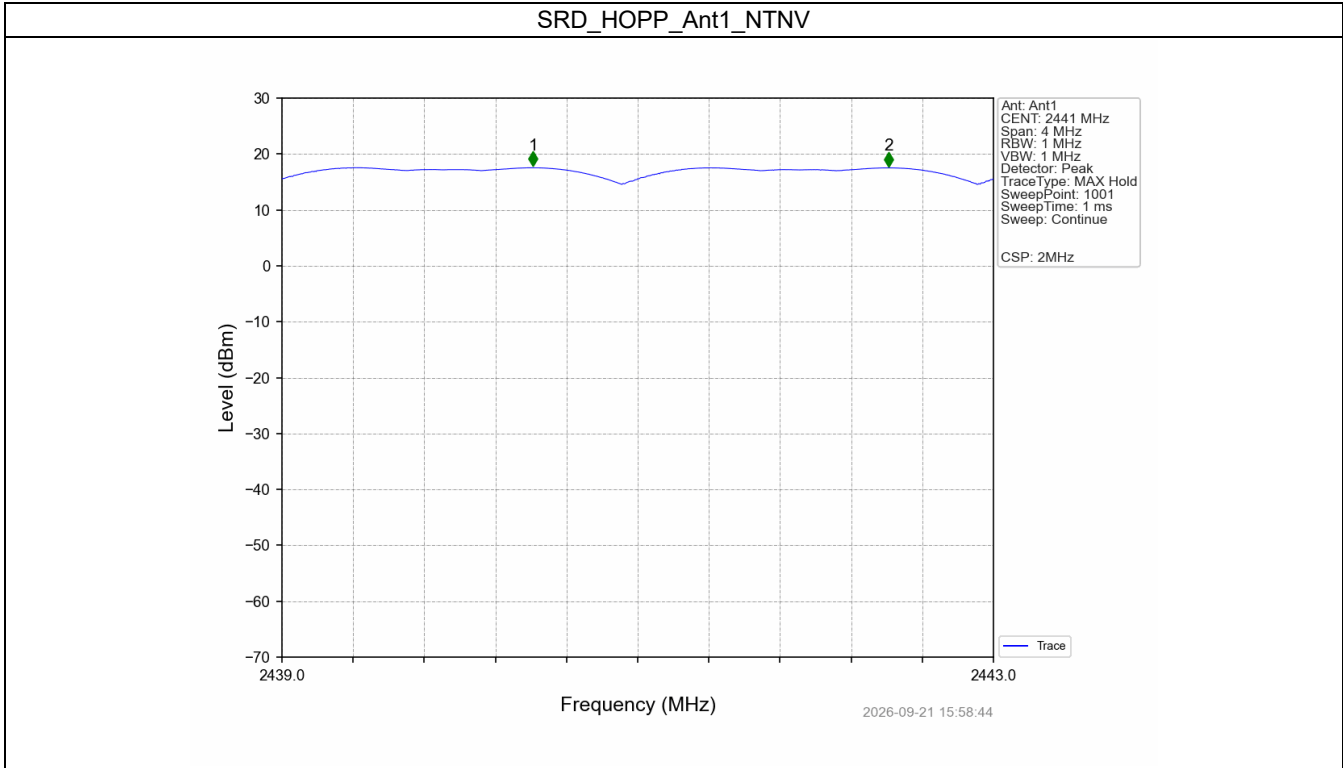
Ant3						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
SRD	SISO	HOPP	2.000	2.340	≥ 1.56	Pass

Ant4						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
SRD	SISO	HOPP	2.000	2.359	≥ 1.573	Pass

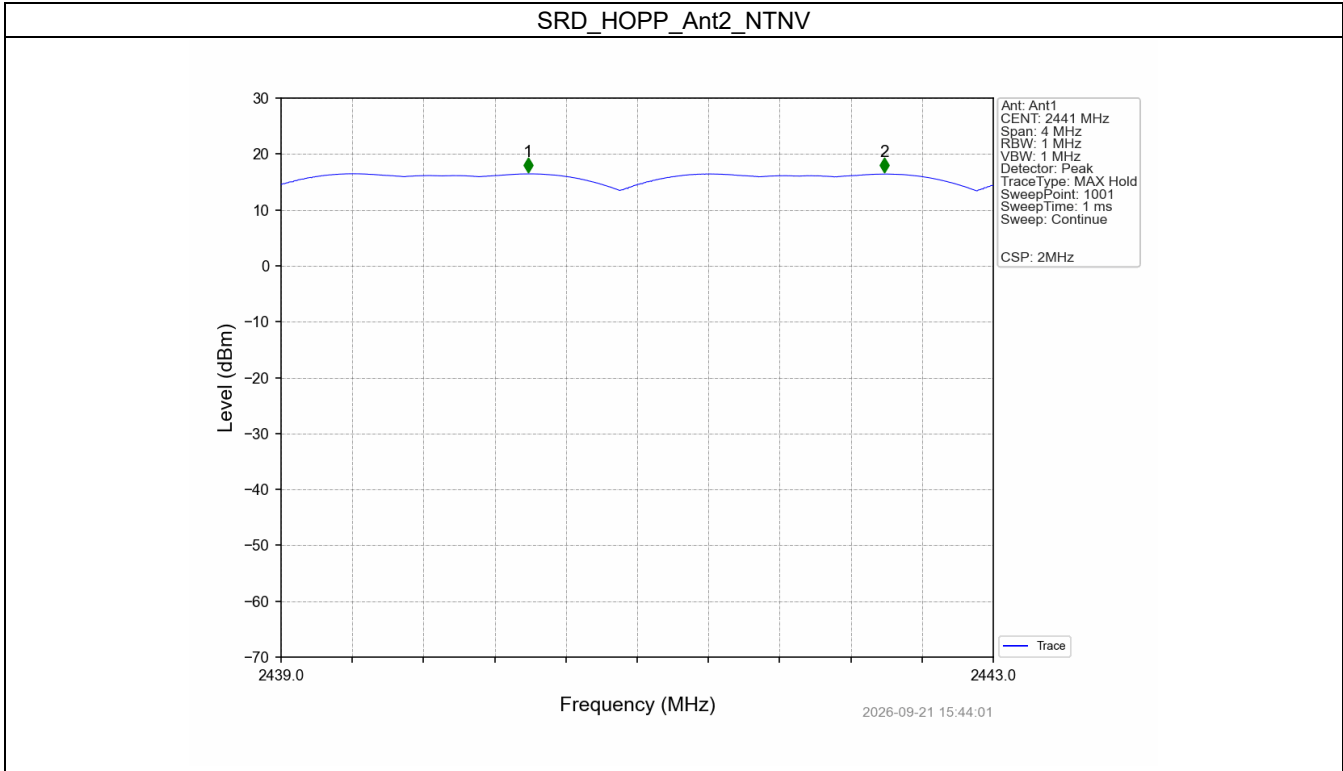
Ant5						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
SRD	SISO	HOPP	2.000	2.325	≥ 1.55	Pass

3.2 Test Graph

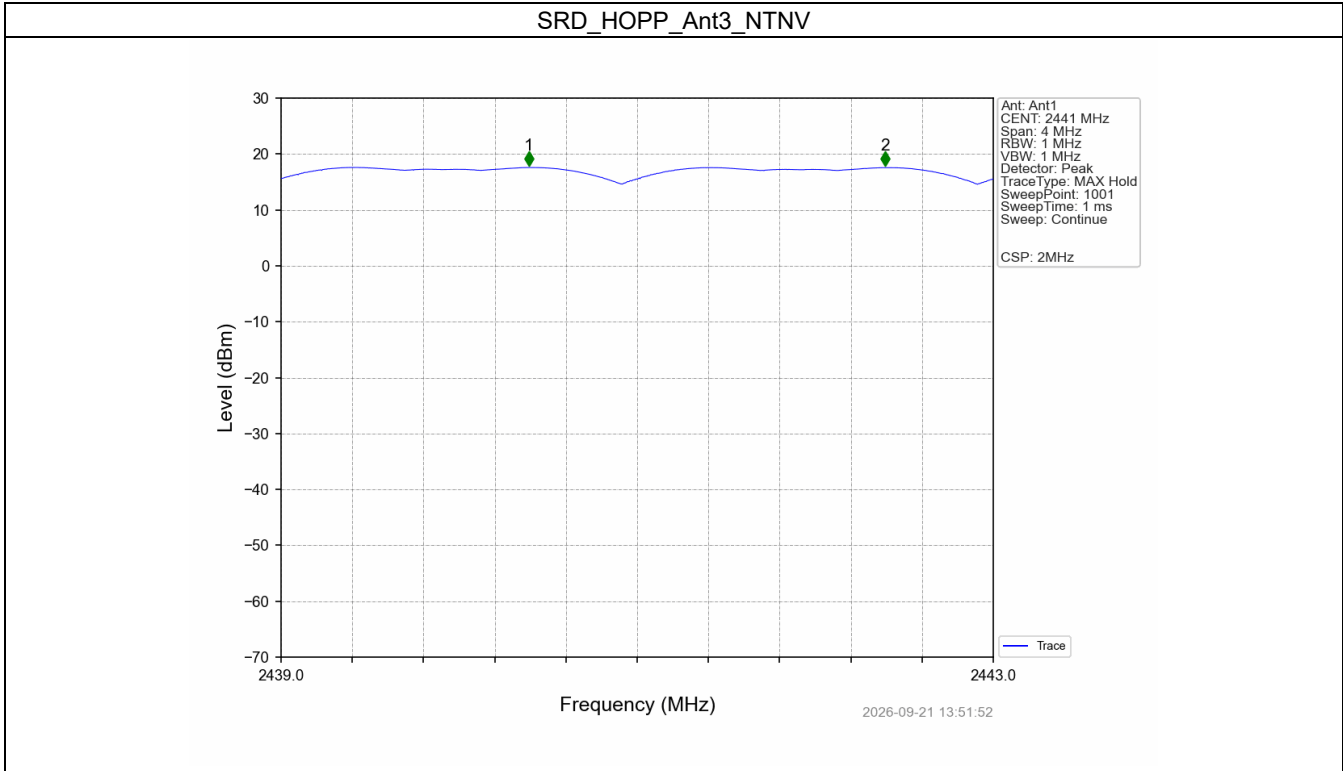
3.2.1 Ant1



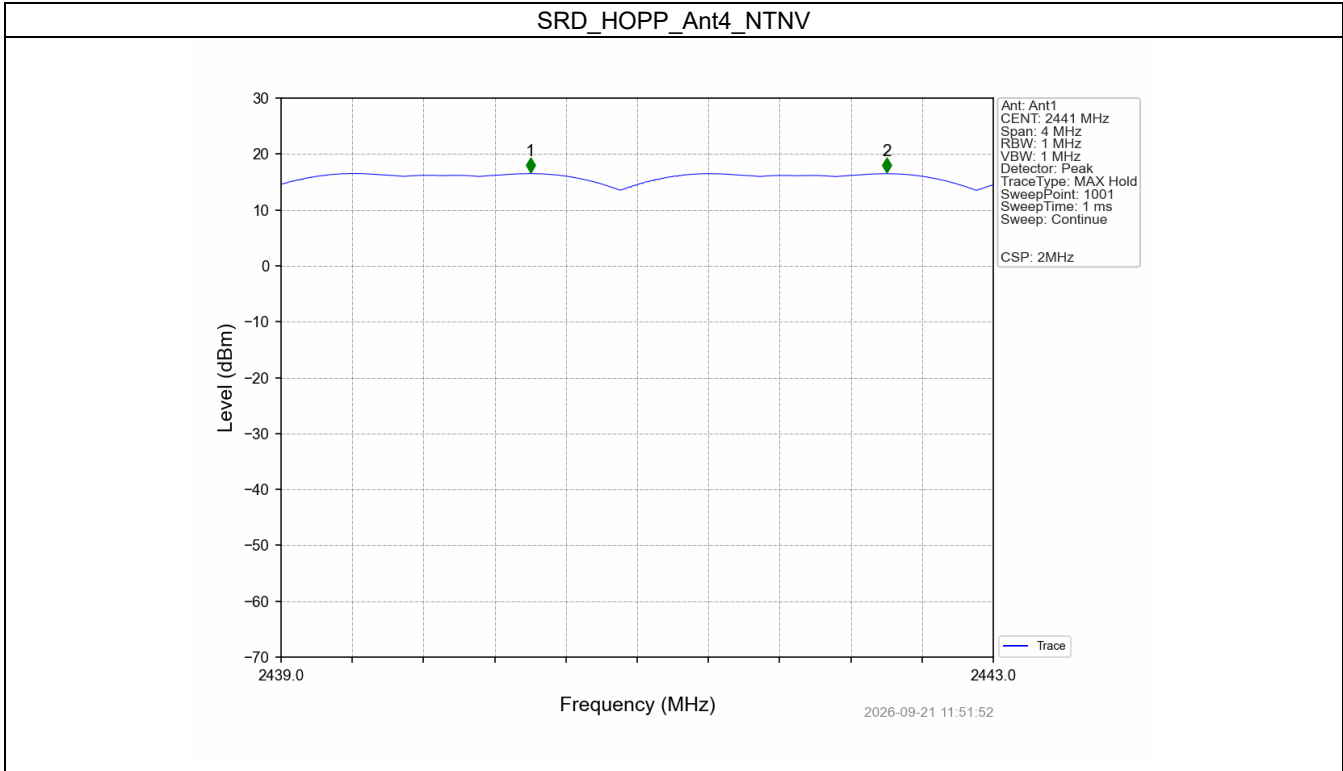
Ant2



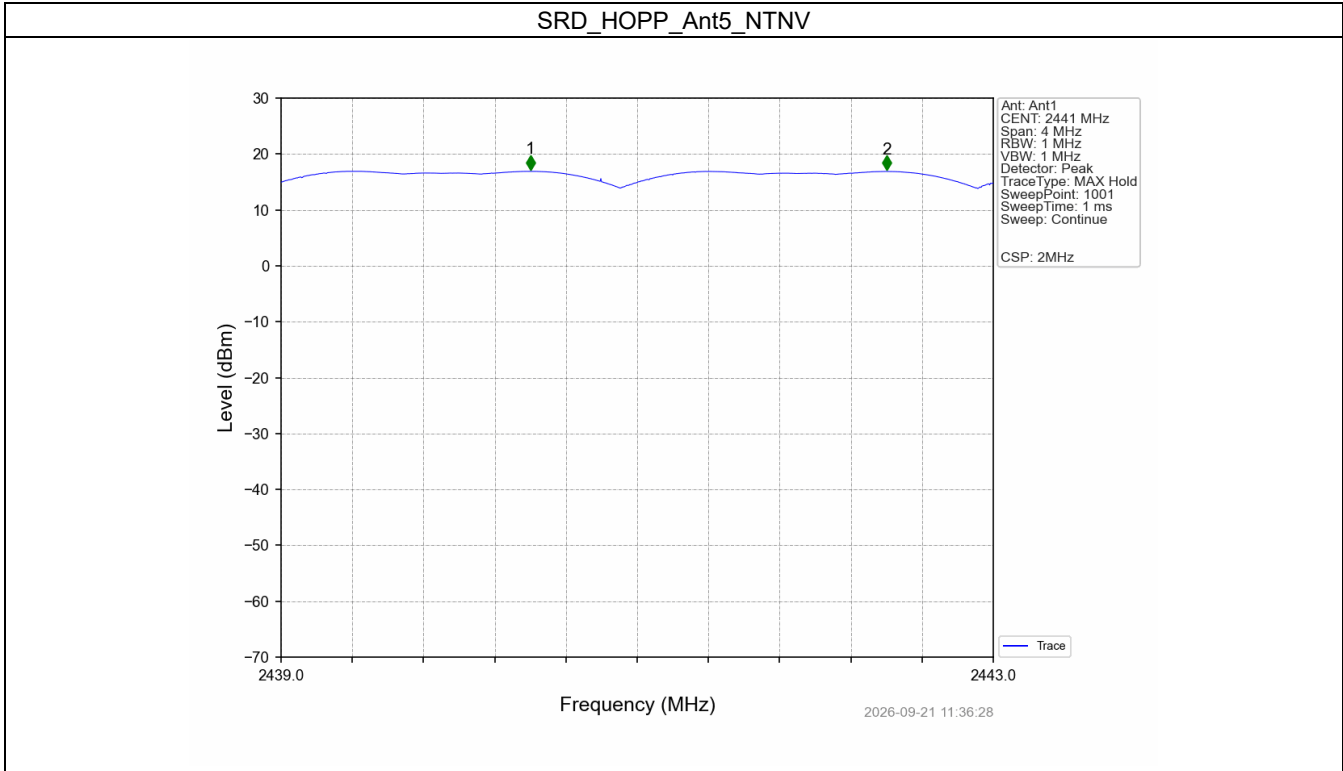
Ant3



Ant4



Ant5



4. Number of Hopping Frequencies

4.1 Test Result

4.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
SRD	SISO	HOPP	40	≥ 15	Pass

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			Ant2	Limit	
SRD	SISO	HOPP	40	≥ 15	Pass

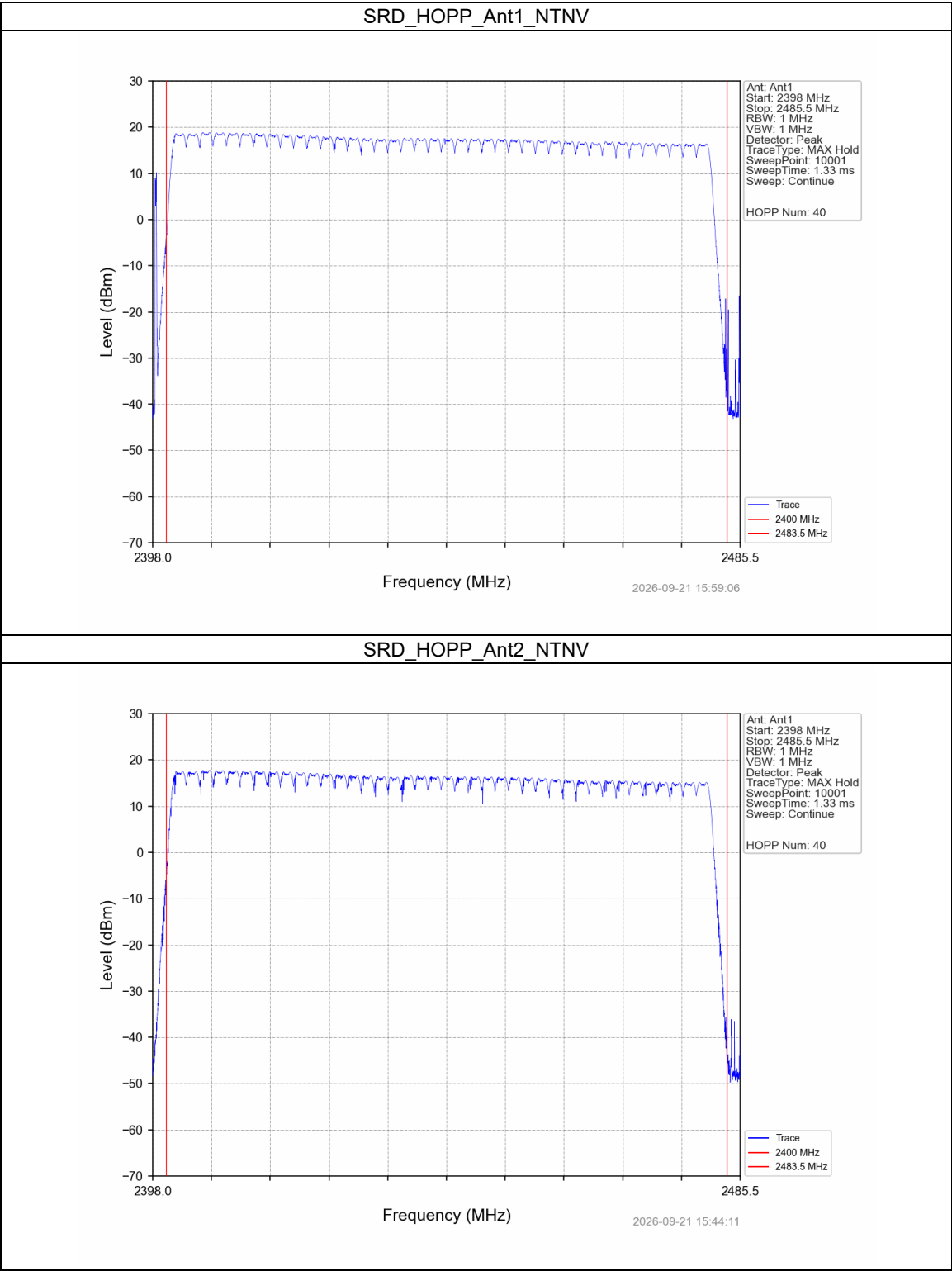
Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			Ant3	Limit	
SRD	SISO	HOPP	40	≥ 15	Pass

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			Ant4	Limit	
SRD	SISO	HOPP	40	≥ 15	Pass

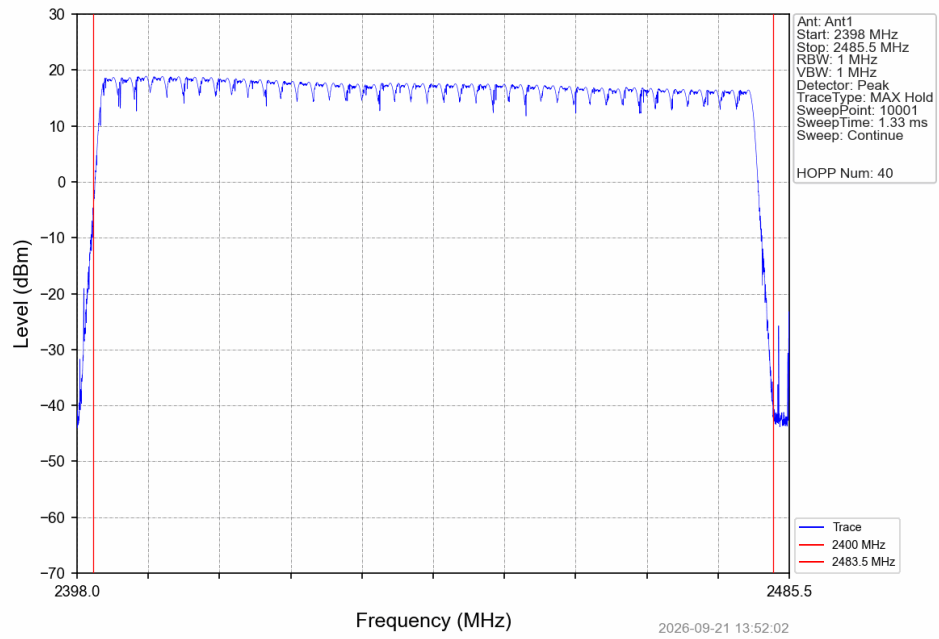
Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			Ant5	Limit	
SRD	SISO	HOPP	40	≥ 15	Pass

4.2 Test Graph

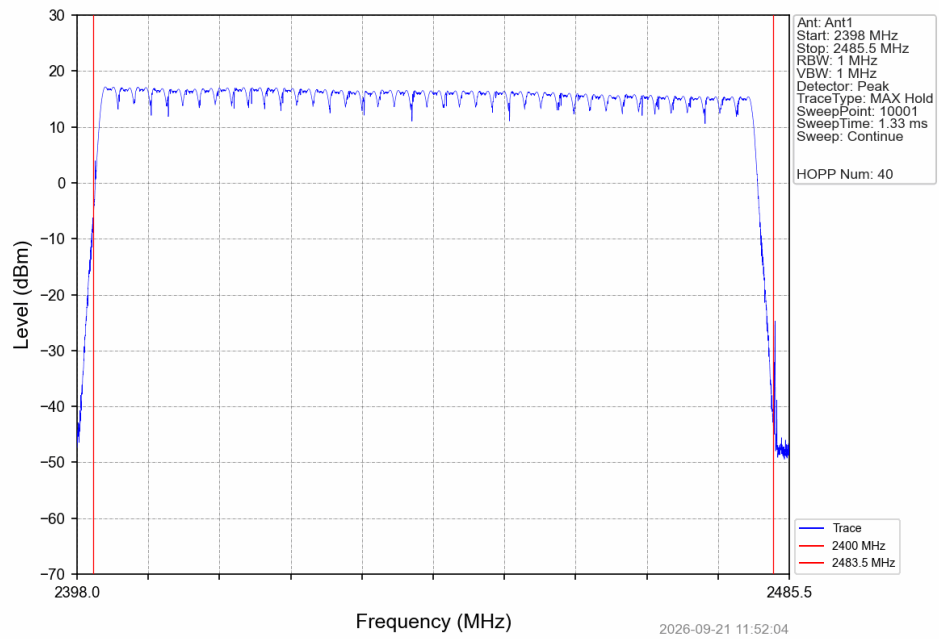
4.2.1 HoppNum



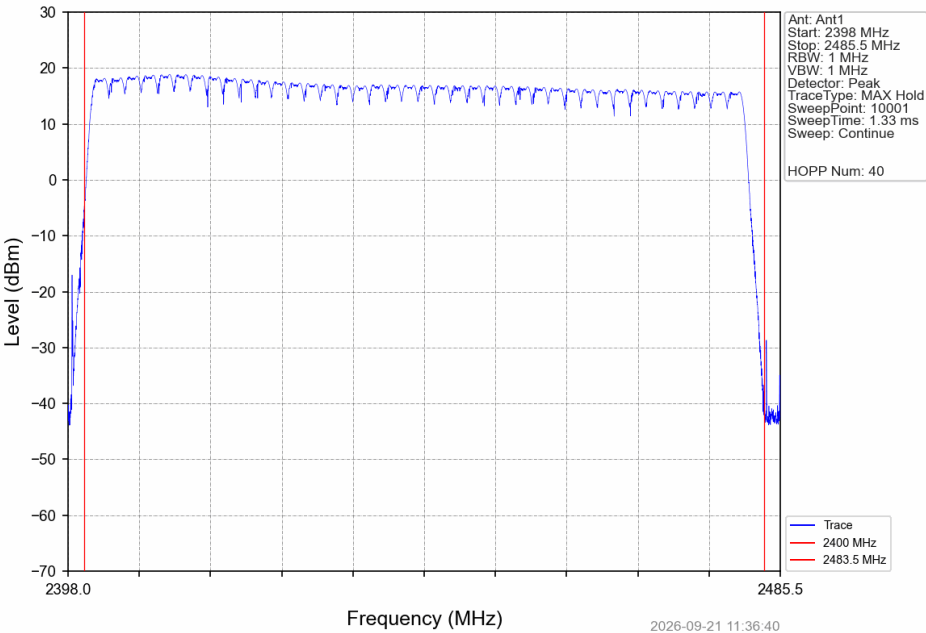
SRD_HOPP_Ant3_NTNV



SRD_HOPP_Ant4_NTNV



SRD_HOPP_Ant5_NTNV



5. Time of Occupancy (Dwell Time)

5.1 Test Result

5.1.1 Ant1

Ant1								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
SRD	SISO	HOPP	19.895	16.000	20	397.900	<=400	Pass

Ant2

Ant2								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
SRD	SISO	HOPP	19.891	16.000	20	397.820	<=400	Pass

Ant3

Ant3								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
SRD	SISO	HOPP	19.891	16.000	20	397.820	<=400	Pass

Ant4

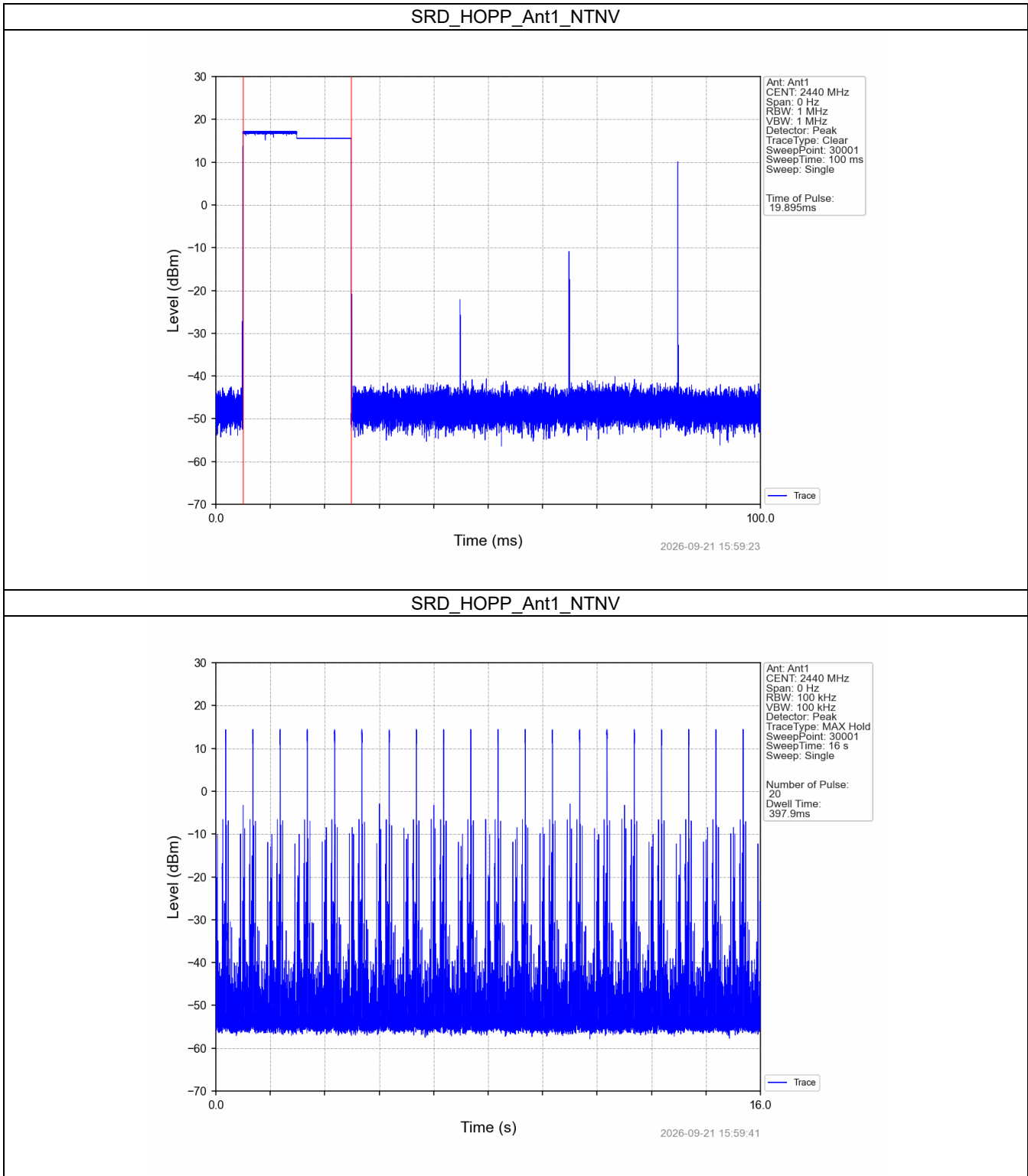
Ant4								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
SRD	SISO	HOPP	19.895	16.000	20	397.900	<=400	Pass

Ant5

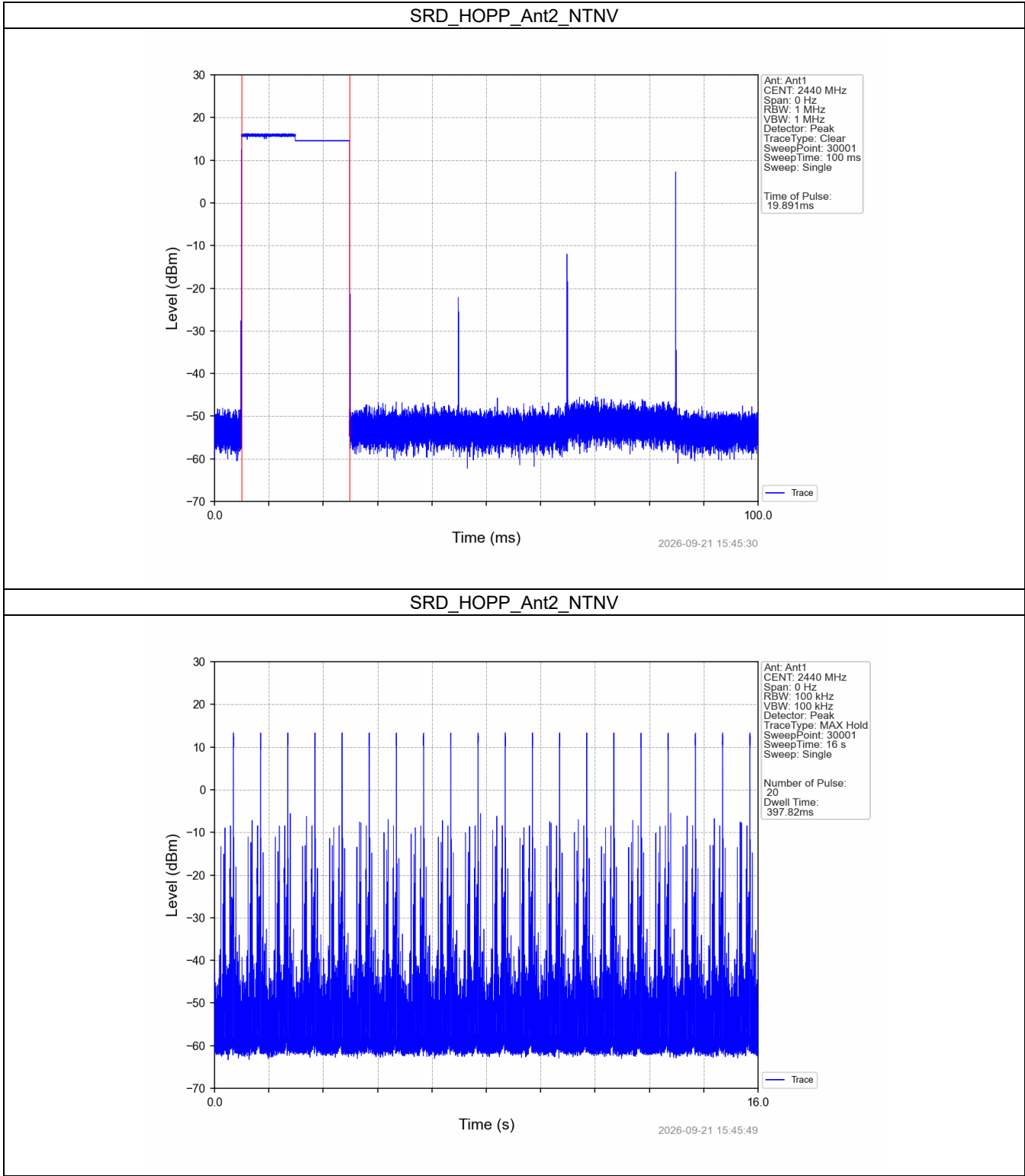
Ant5								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
SRD	SISO	HOPP	19.895	16.000	20	397.900	<=400	Pass

5.2 Test Graph

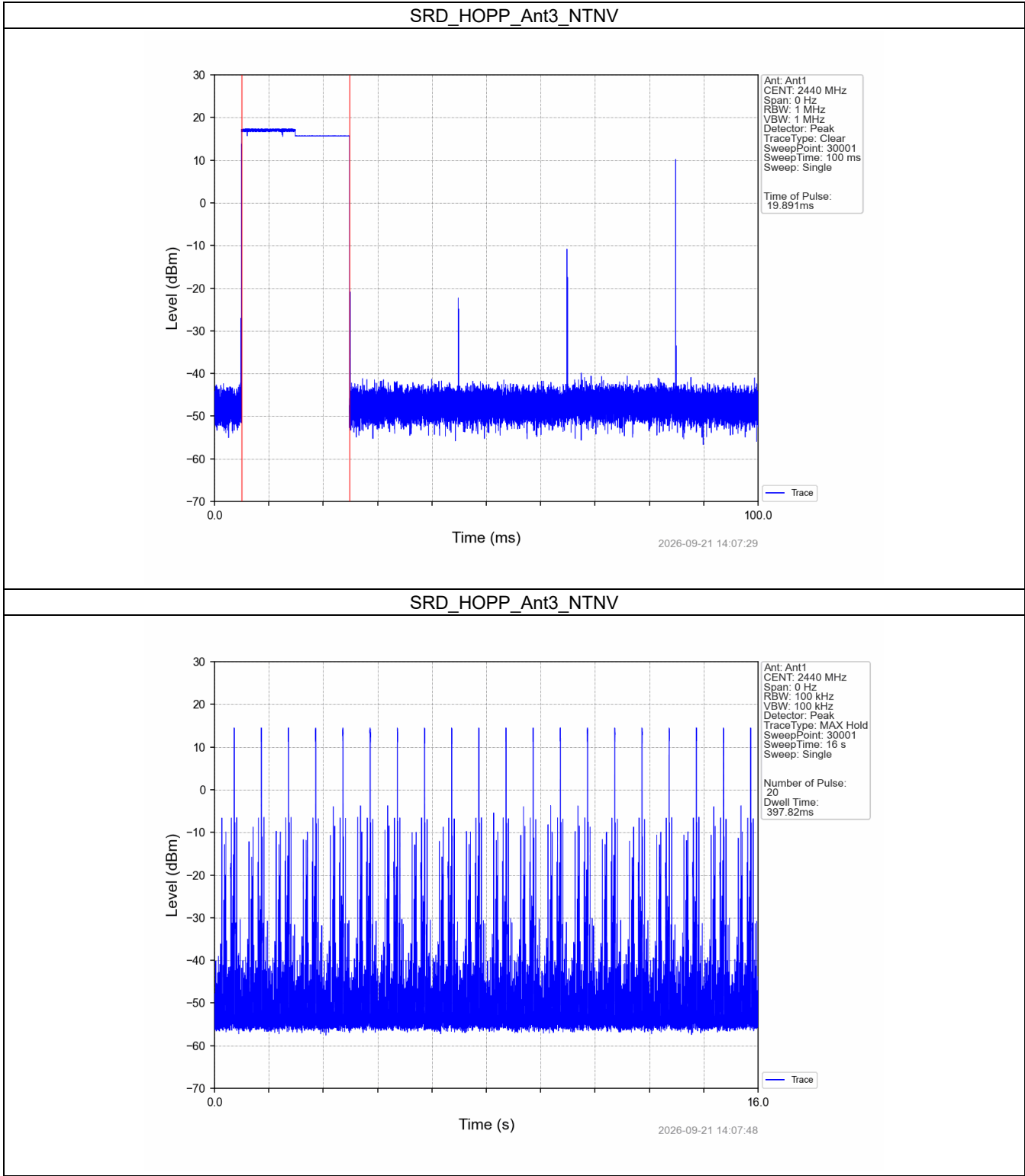
5.2.1 Ant1



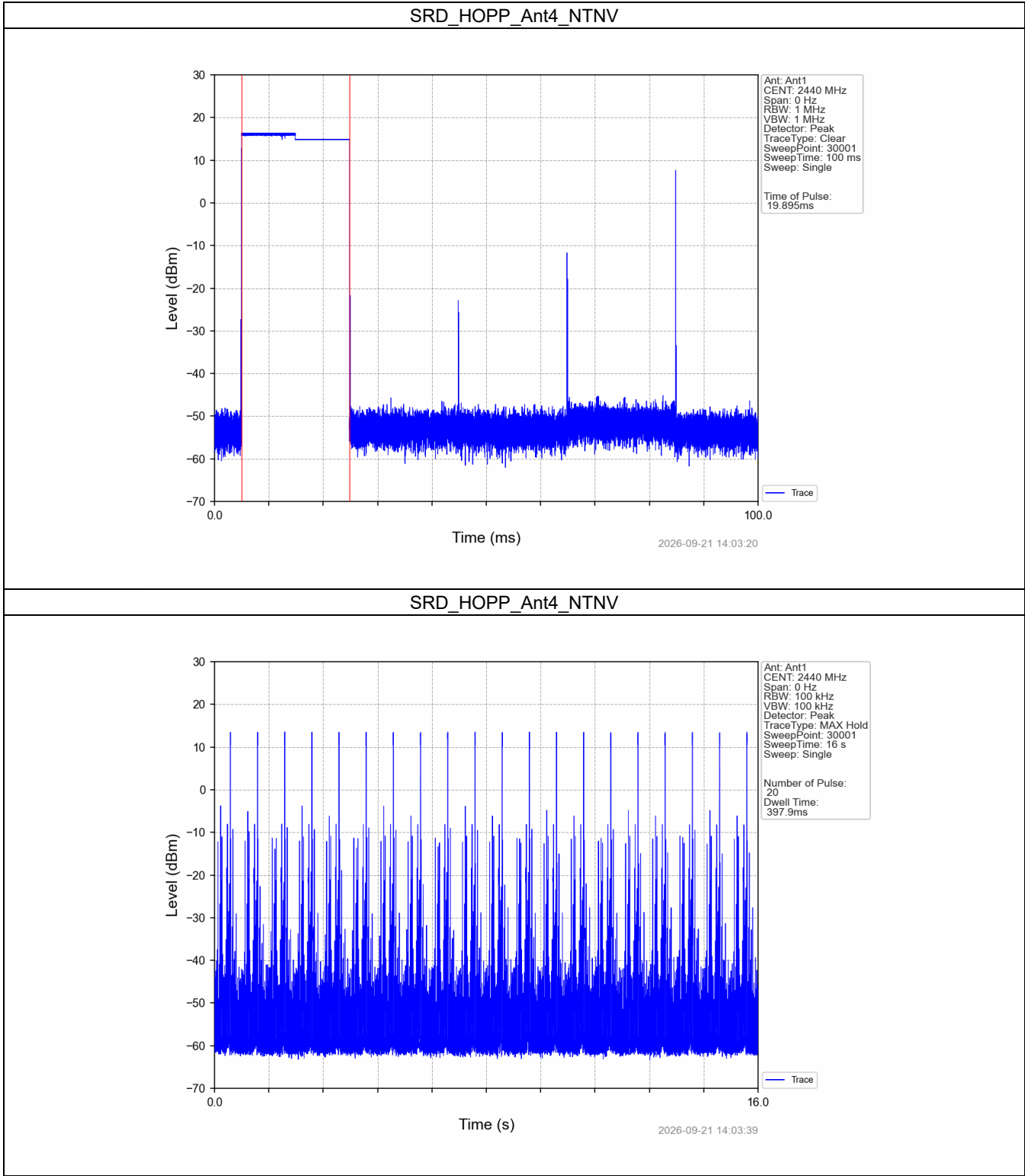
Ant2



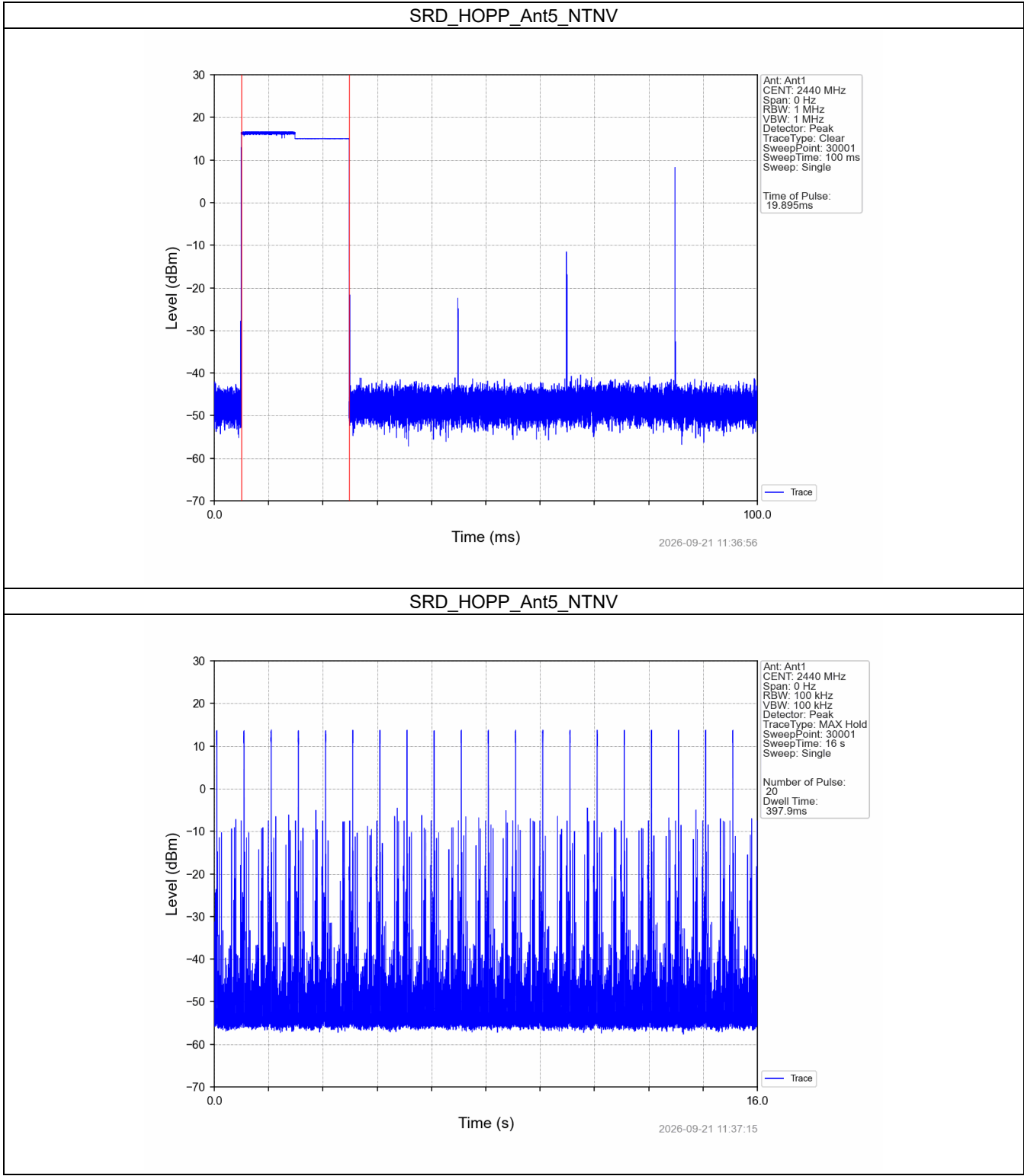
Ant3



Ant4



Ant5



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
SRD	SISO	2402	1	17.12
		2440	1	16.24
		2480	1	14.44
		HOPP	1	18.83
				18.83

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
SRD	SISO	2402	2	15.69
		2440	2	14.81
		2480	2	13.52
		HOPP	2	17.75
				17.75

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
SRD	SISO	2402	3	16.86
		2440	3	15.70
		2480	3	14.84
		HOPP	3	18.87
				18.87

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
SRD	SISO	2402	4	15.72
		2440	4	15.00
		2480	4	14.77
		HOPP	4	17.09
				17.09

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
SRD	SISO	2402	5	16.46
		2440	5	15.13
		2480	5	14.10
		HOPP	5	18.83
				18.83

6.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
SRD	SISO	2402	1	17.12	-2.88	Pass
		2440	1	16.24	-3.76	Pass
		2480	1	14.44	-5.56	Pass
		HOPP	1	18.83	-1.17	Pass
				18.83	-1.17	Pass

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
SRD	SISO	2402	2	15.69	-4.31	Pass
		2440	2	14.81	-5.19	Pass
		2480	2	13.52	-6.48	Pass
		HOPP	2	17.75	-2.25	Pass
				17.75	-2.25	Pass

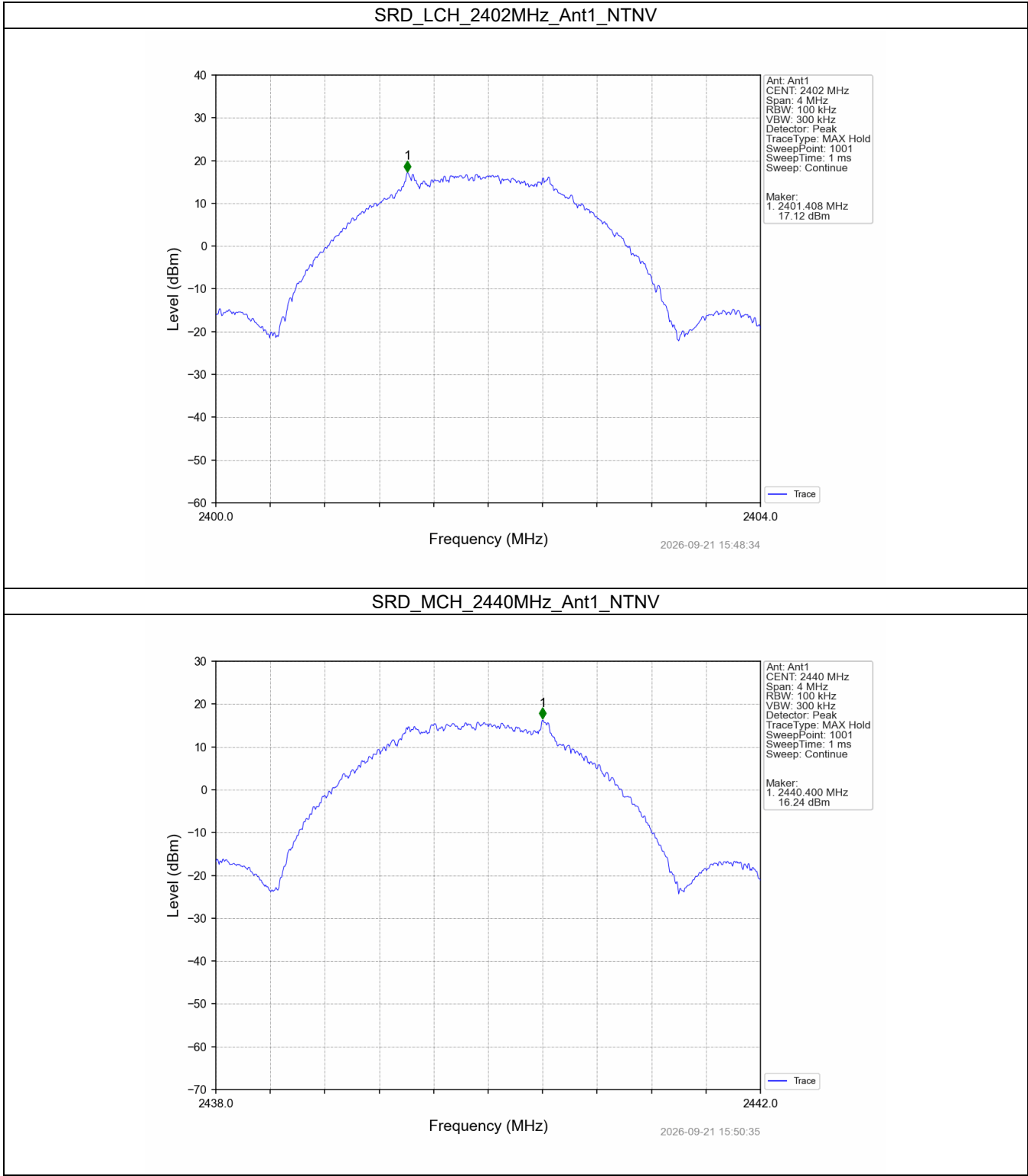
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
SRD	SISO	2402	3	16.86	-3.14	Pass
		2440	3	15.70	-4.30	Pass
		2480	3	14.84	-5.16	Pass
		HOPP	3	18.87	-1.13	Pass
				18.87	-1.13	Pass

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
SRD	SISO	2402	4	15.72	-4.28	Pass
		2440	4	15.00	-5.00	Pass
		2480	4	14.77	-5.23	Pass
		HOPP	4	17.09	-2.91	Pass
				17.09	-2.91	Pass

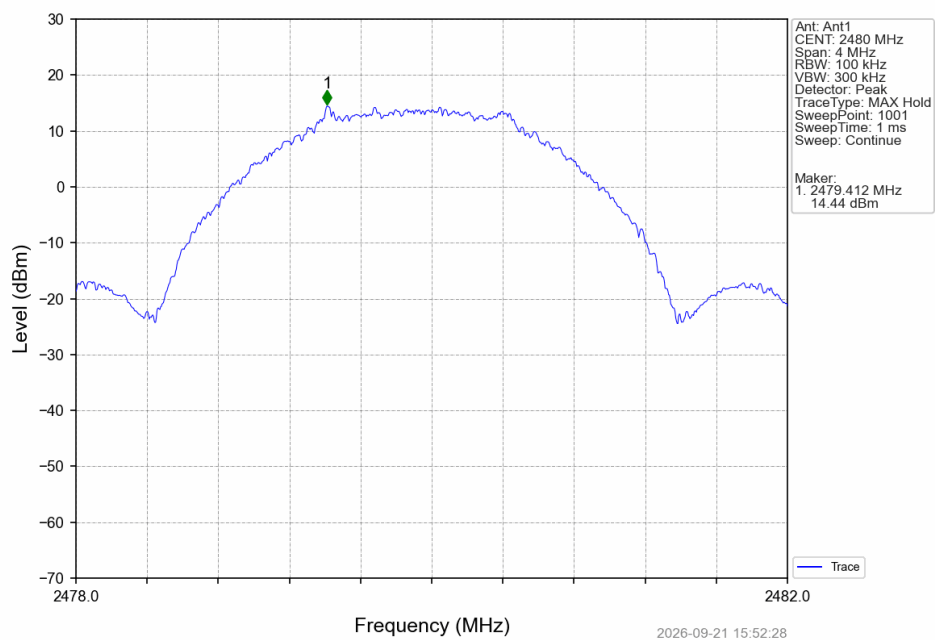
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
SRD	SISO	2402	5	16.46	-3.54	Pass
		2440	5	15.13	-4.87	Pass
		2480	5	14.10	-5.90	Pass
		HOPP	5	18.83	-1.17	Pass
				18.83	-1.17	Pass

6.2 Test Graph

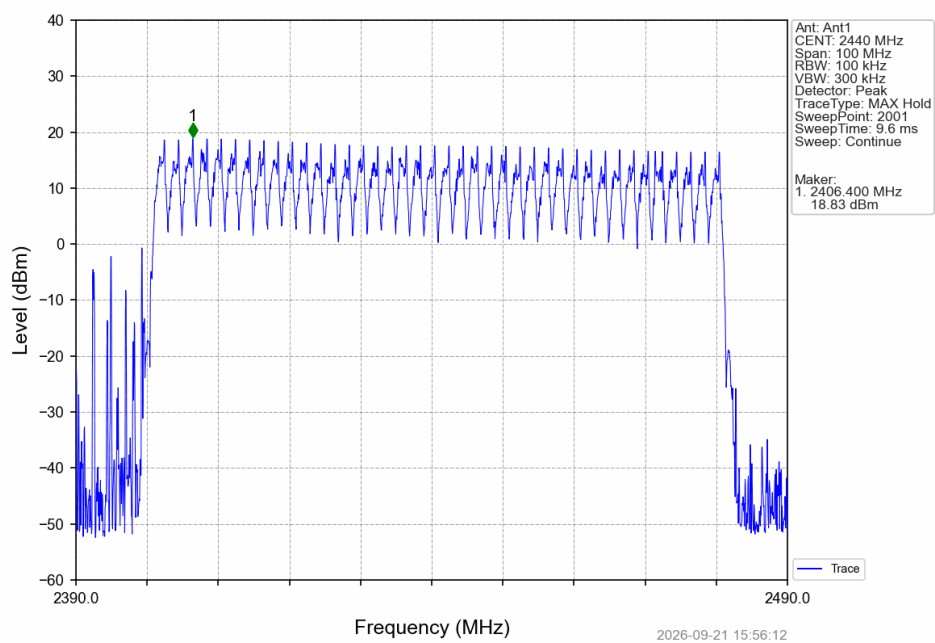
7.2.1 Ref



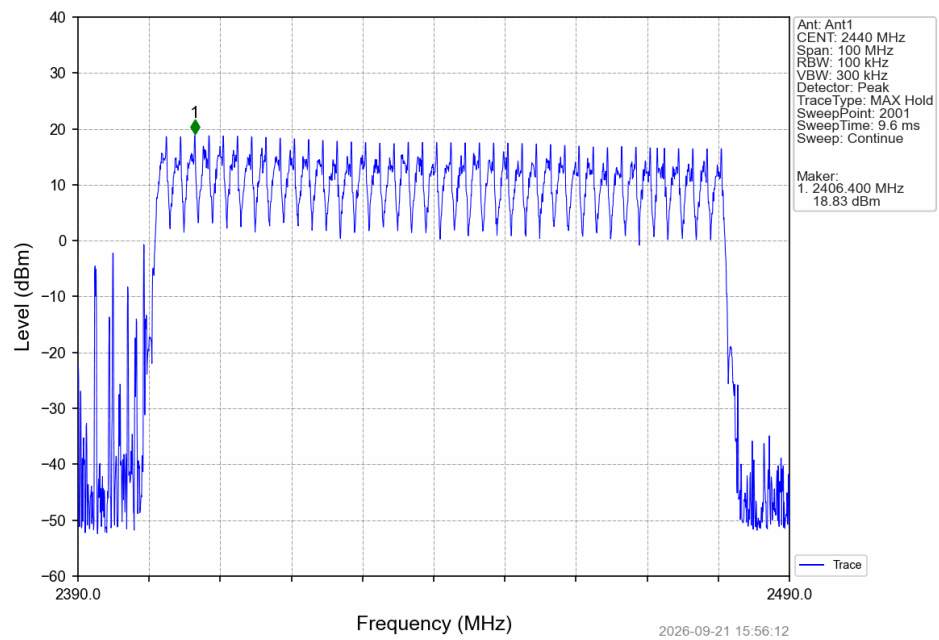
SRD_HCH_2480MHz_Ant1_NTNV



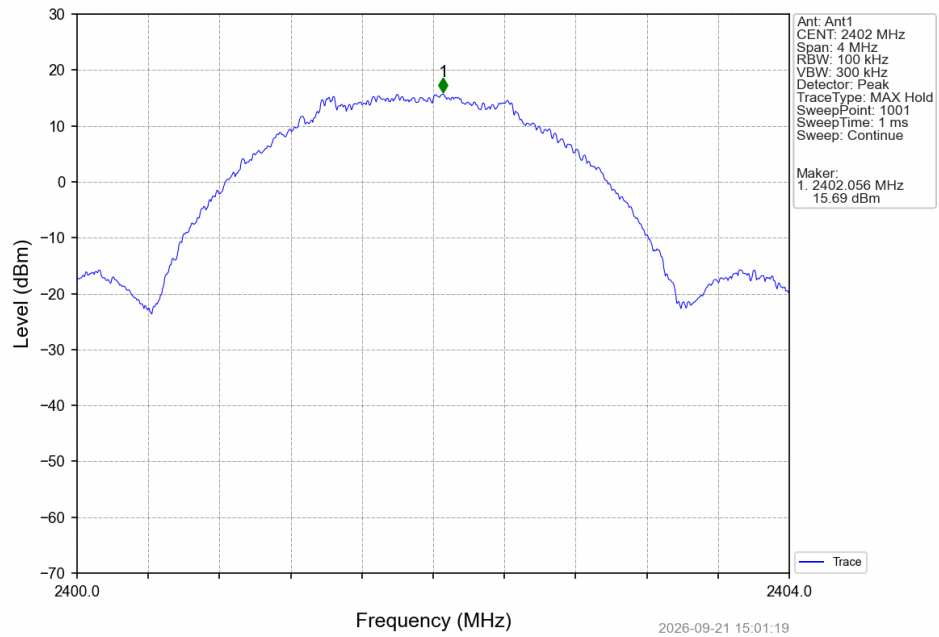
SRD_HOPP_2440MHz_Ant1_NTNV



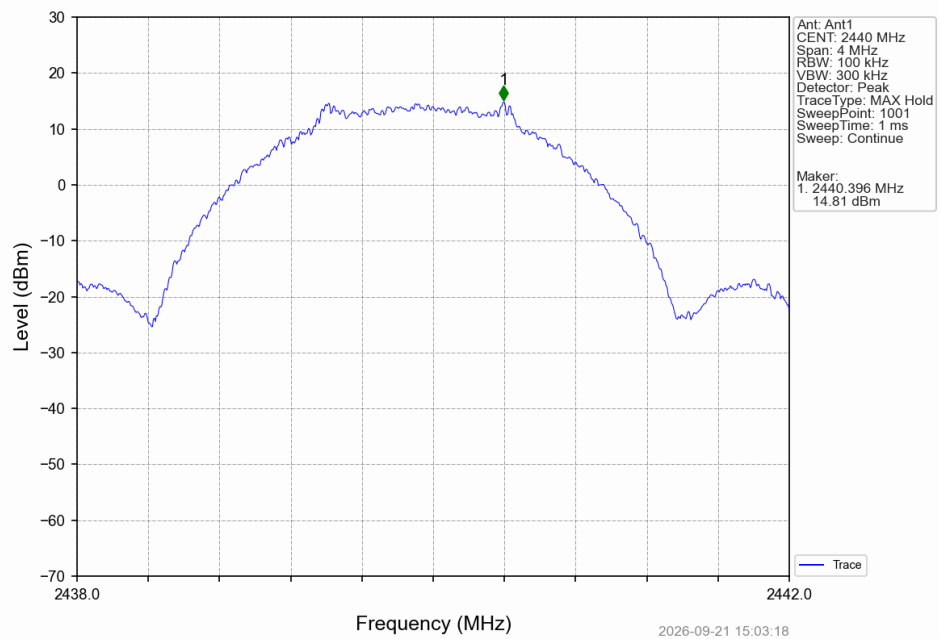
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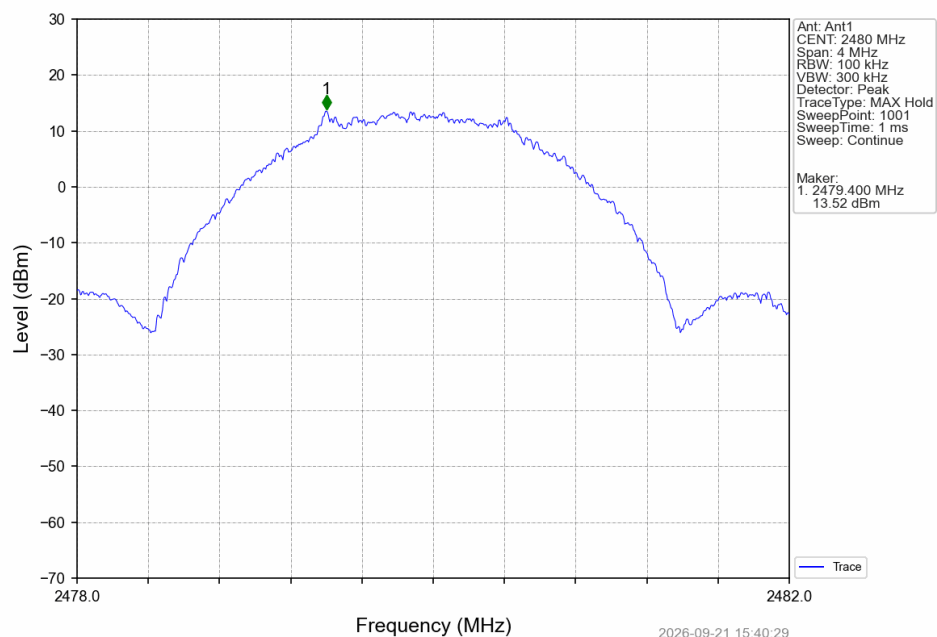
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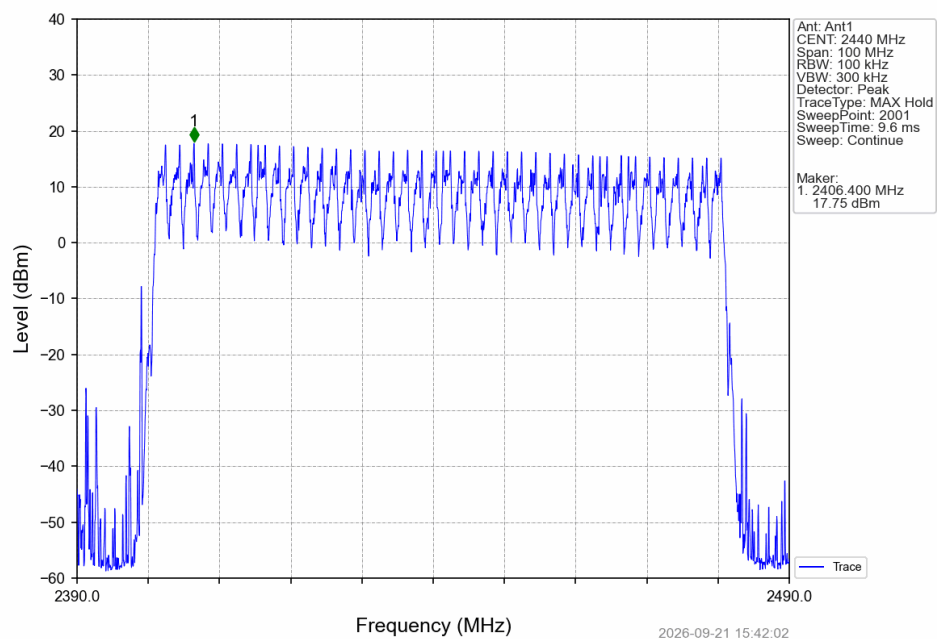
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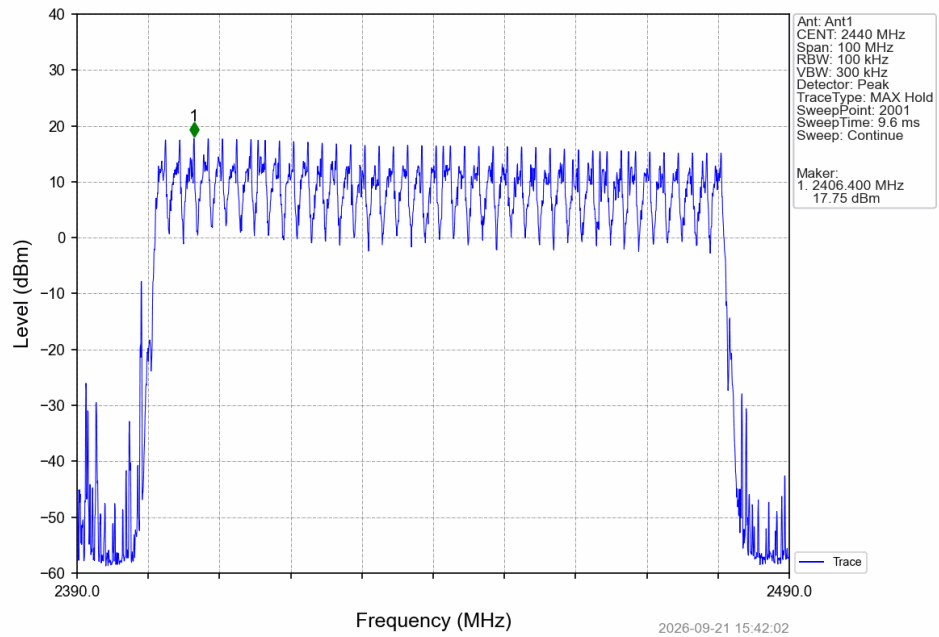
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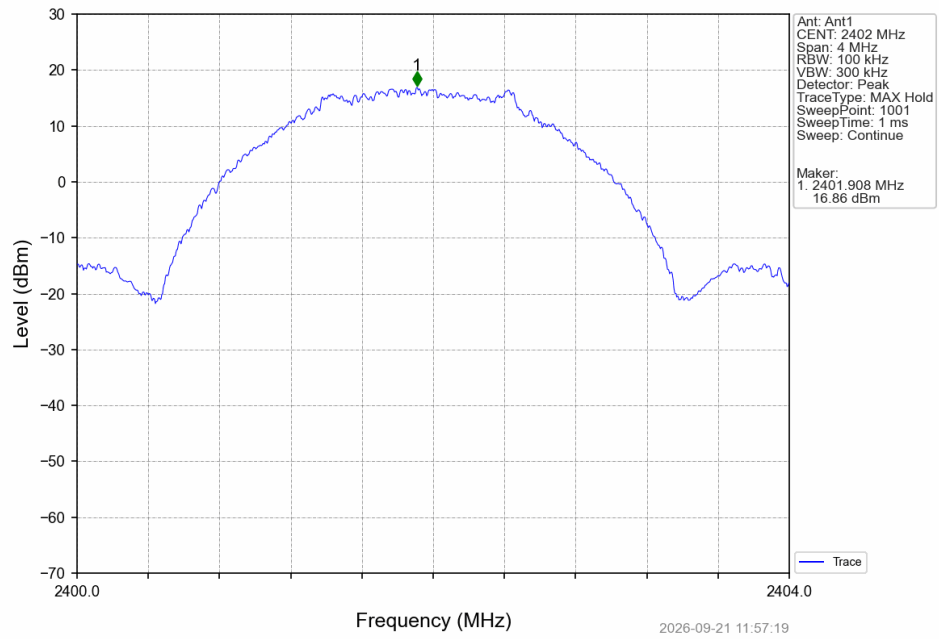
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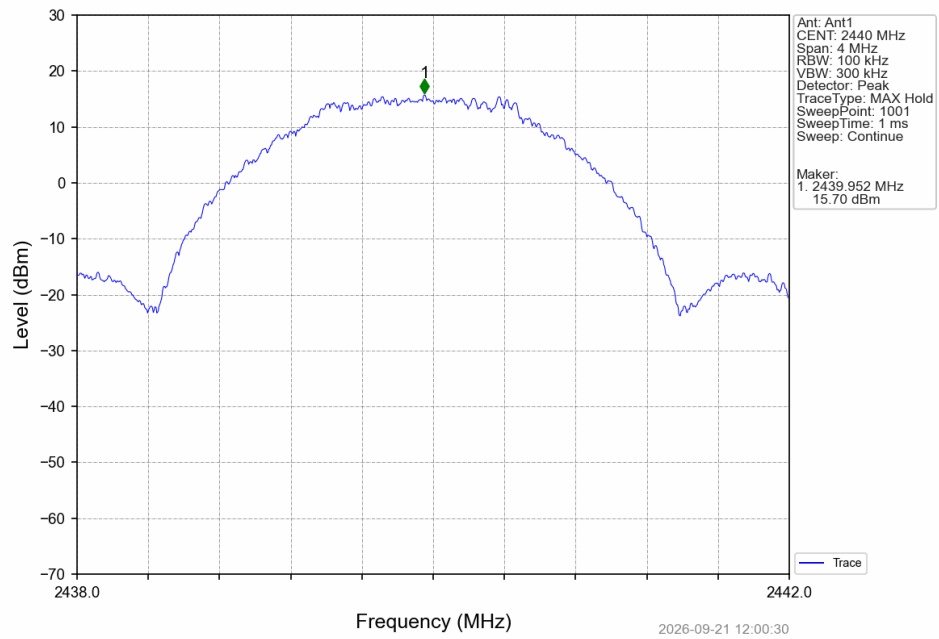
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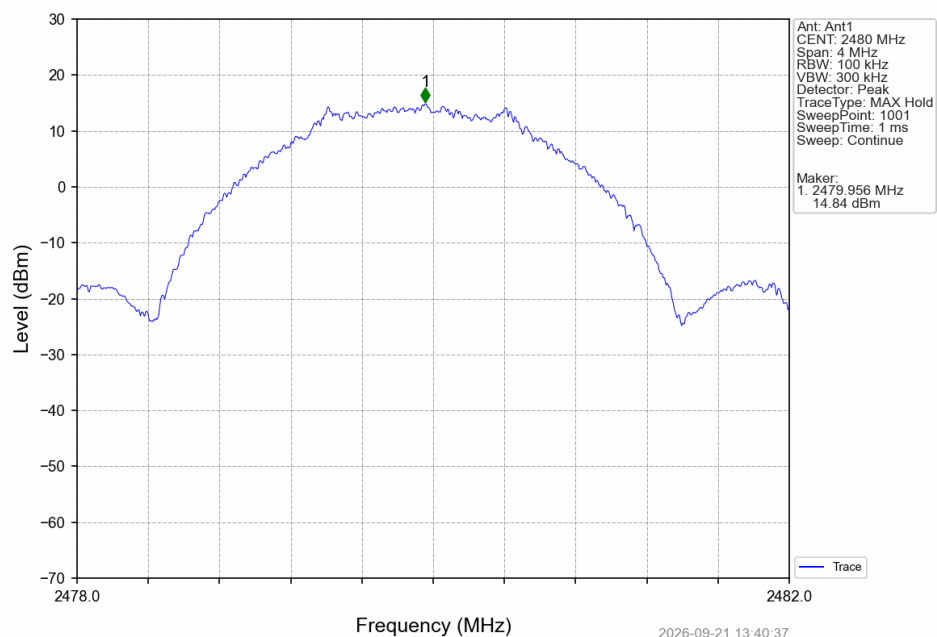
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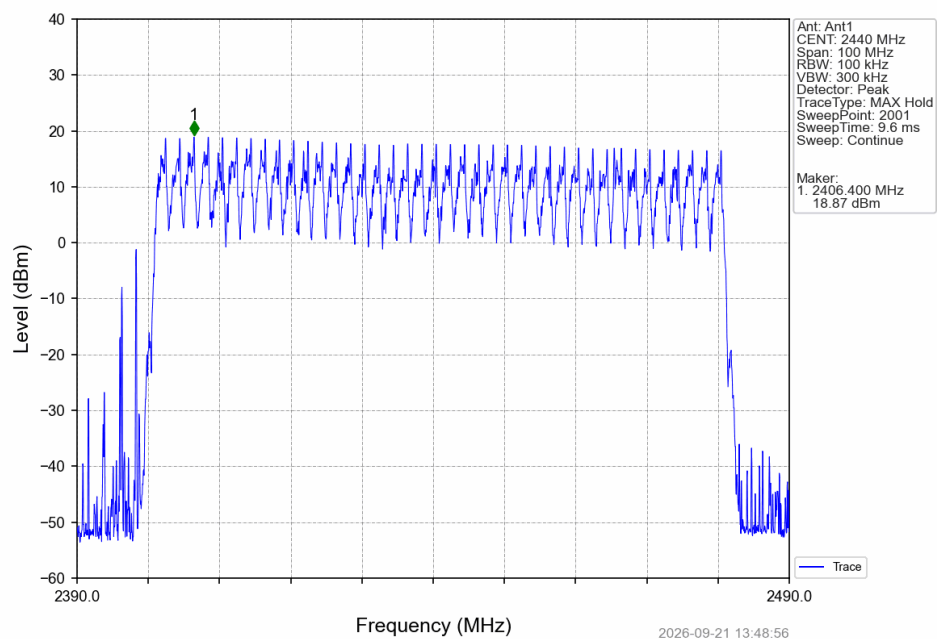
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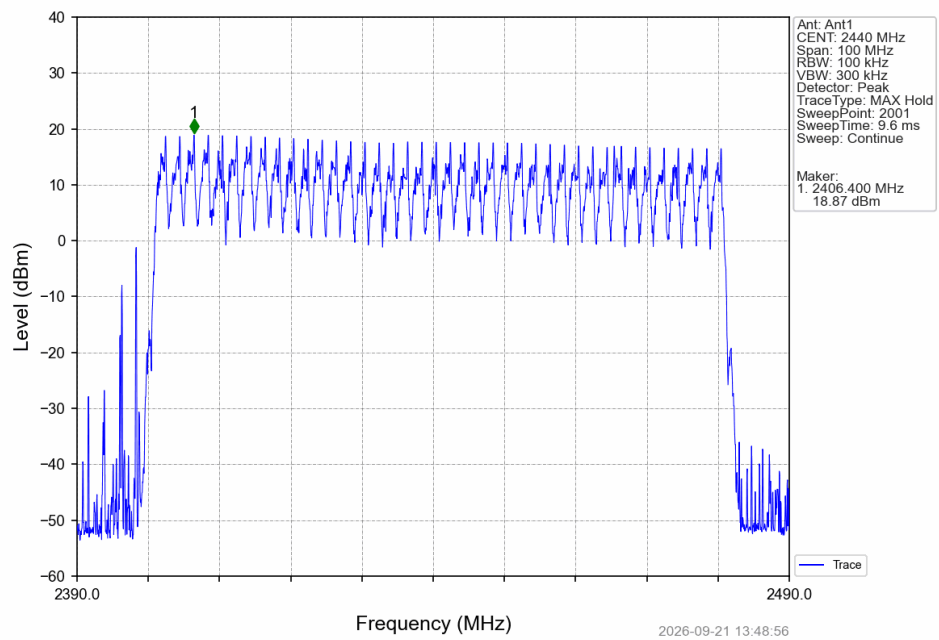
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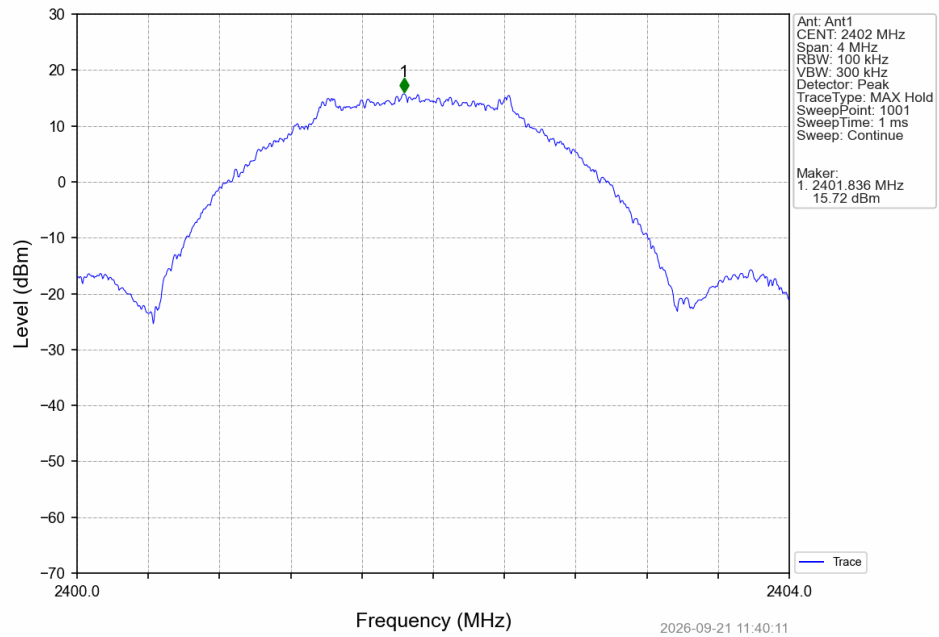
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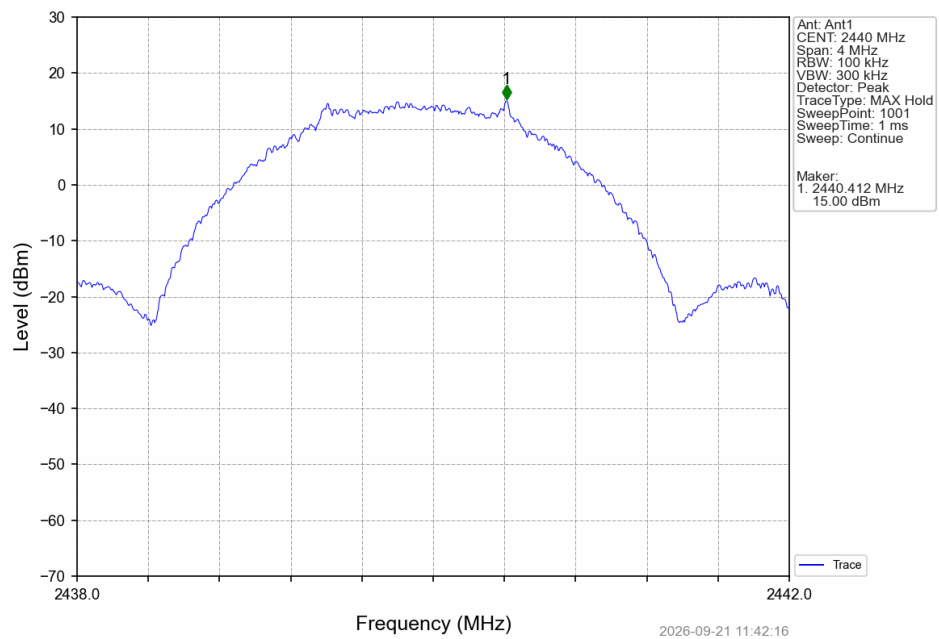
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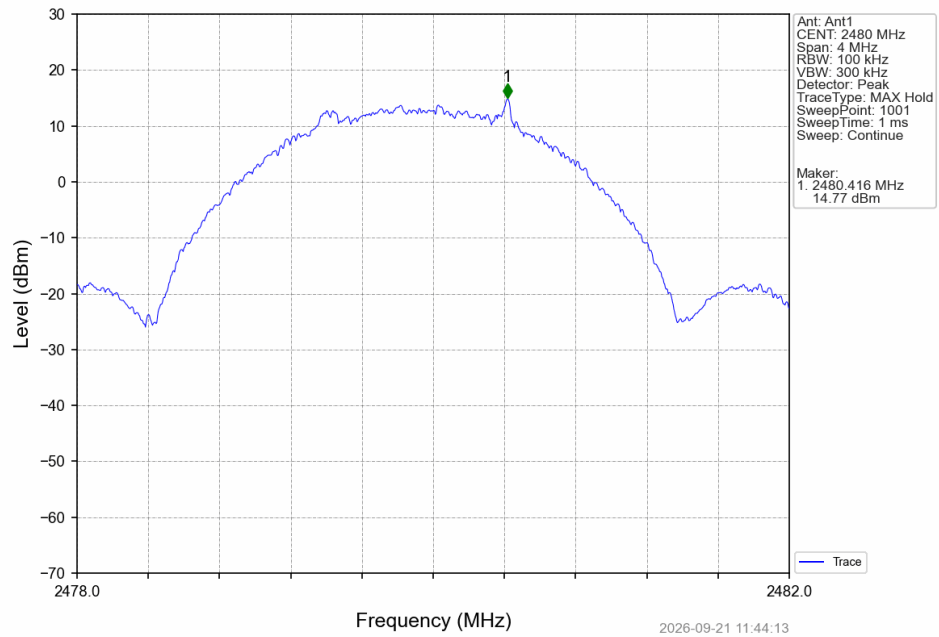
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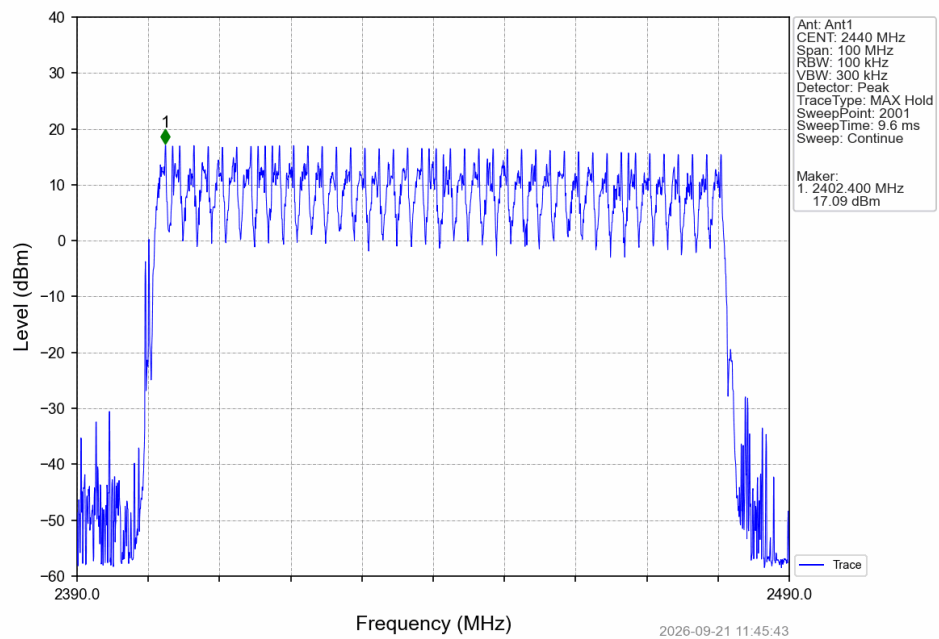
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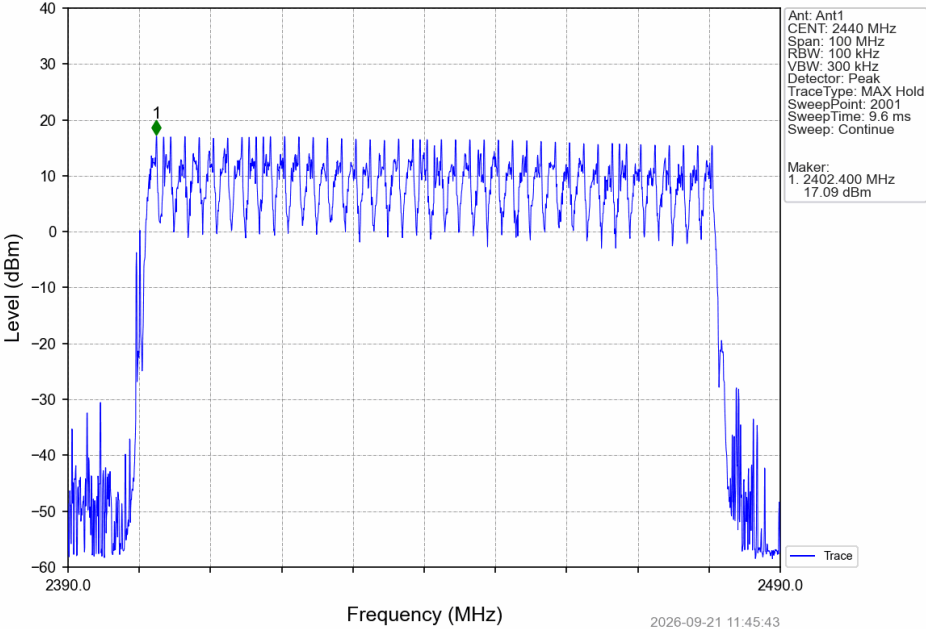
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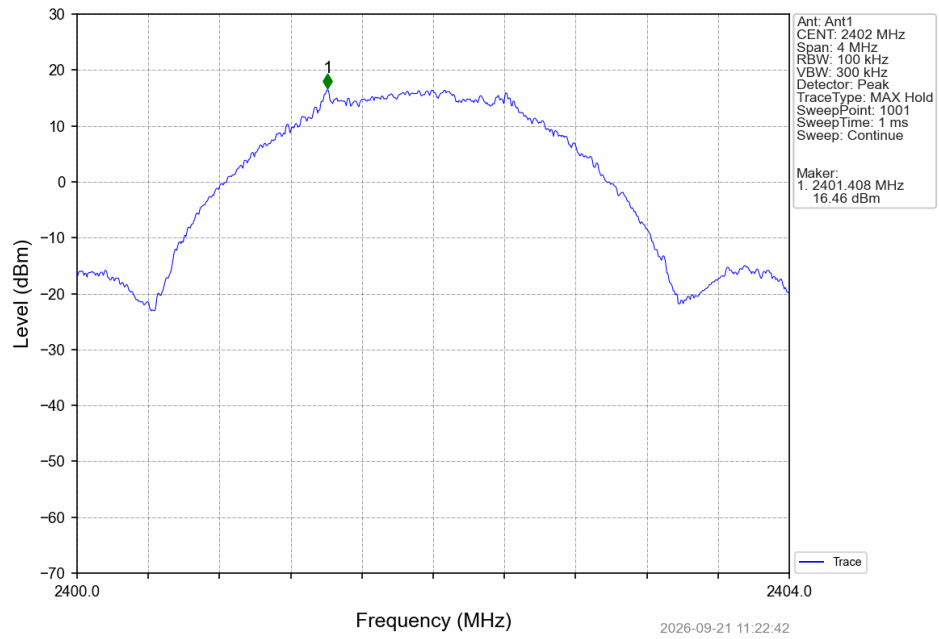
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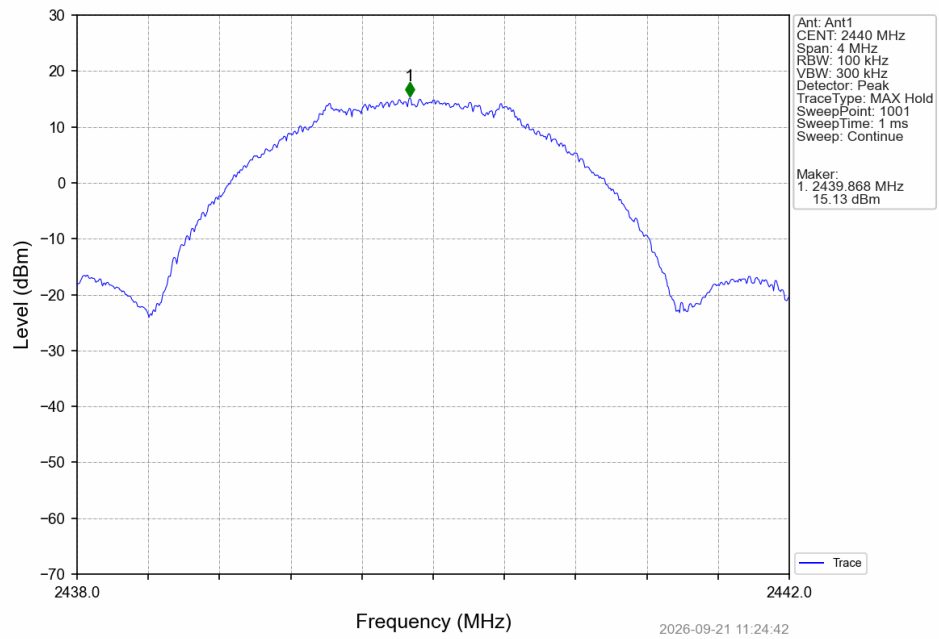
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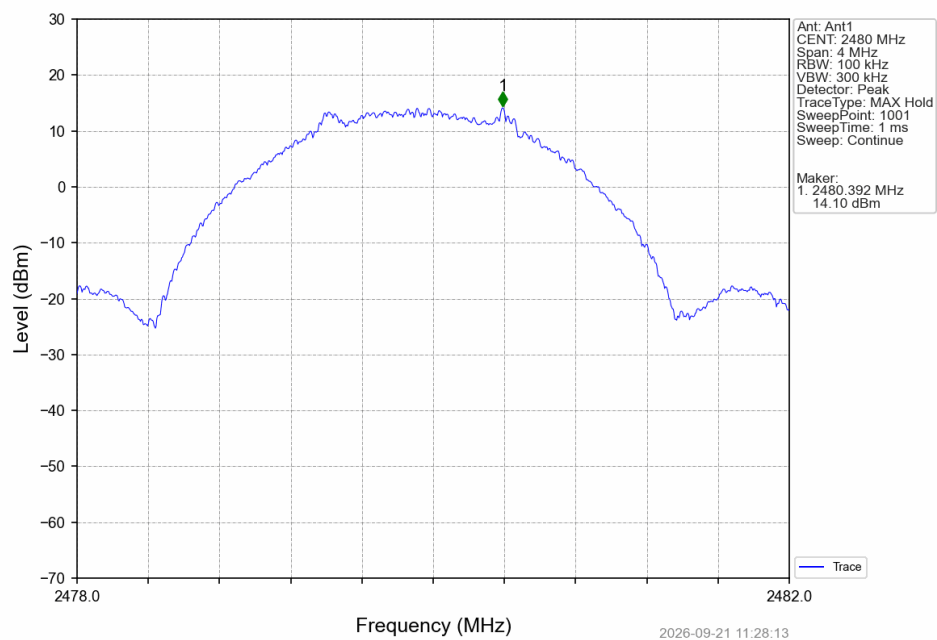
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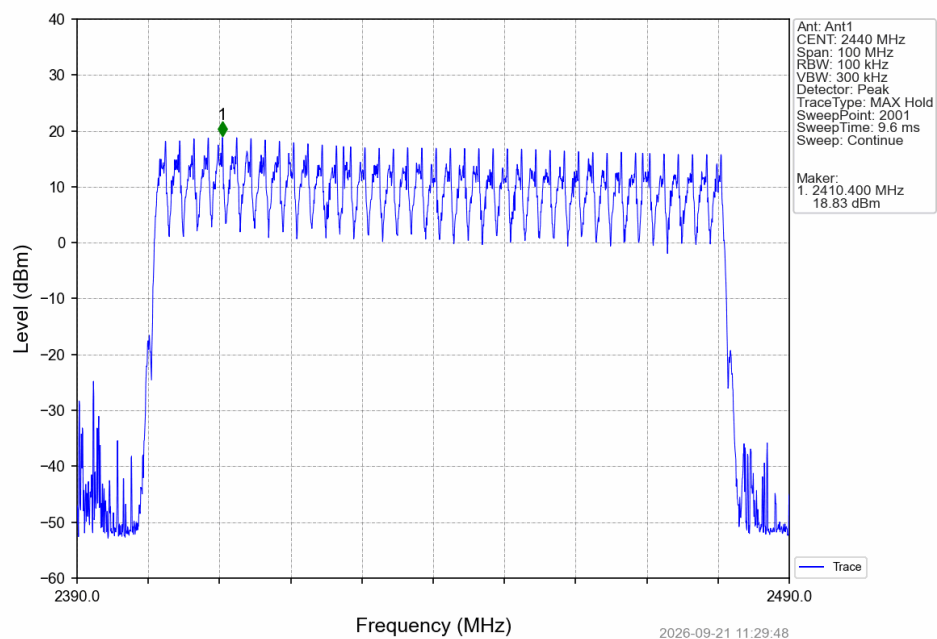
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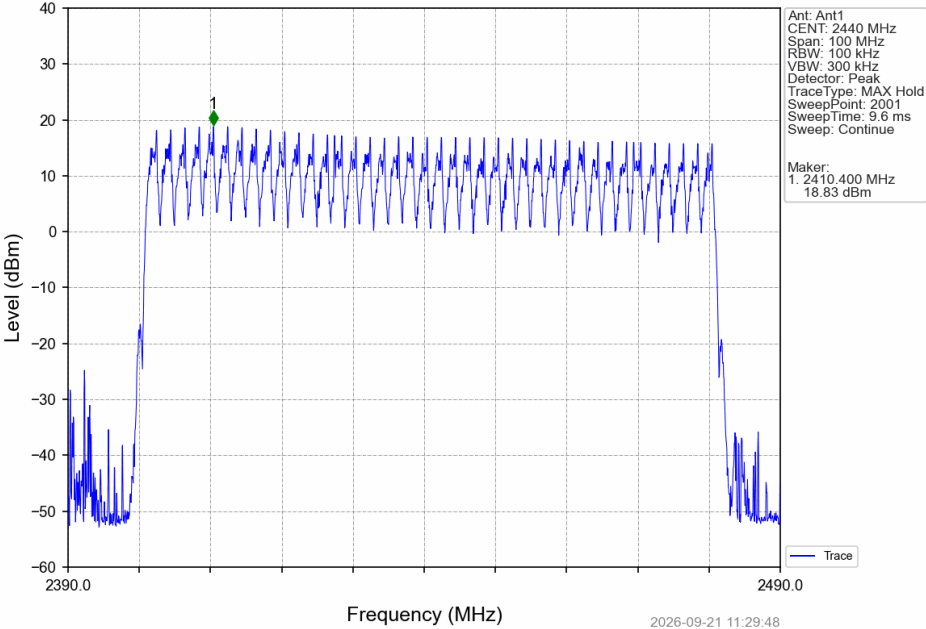
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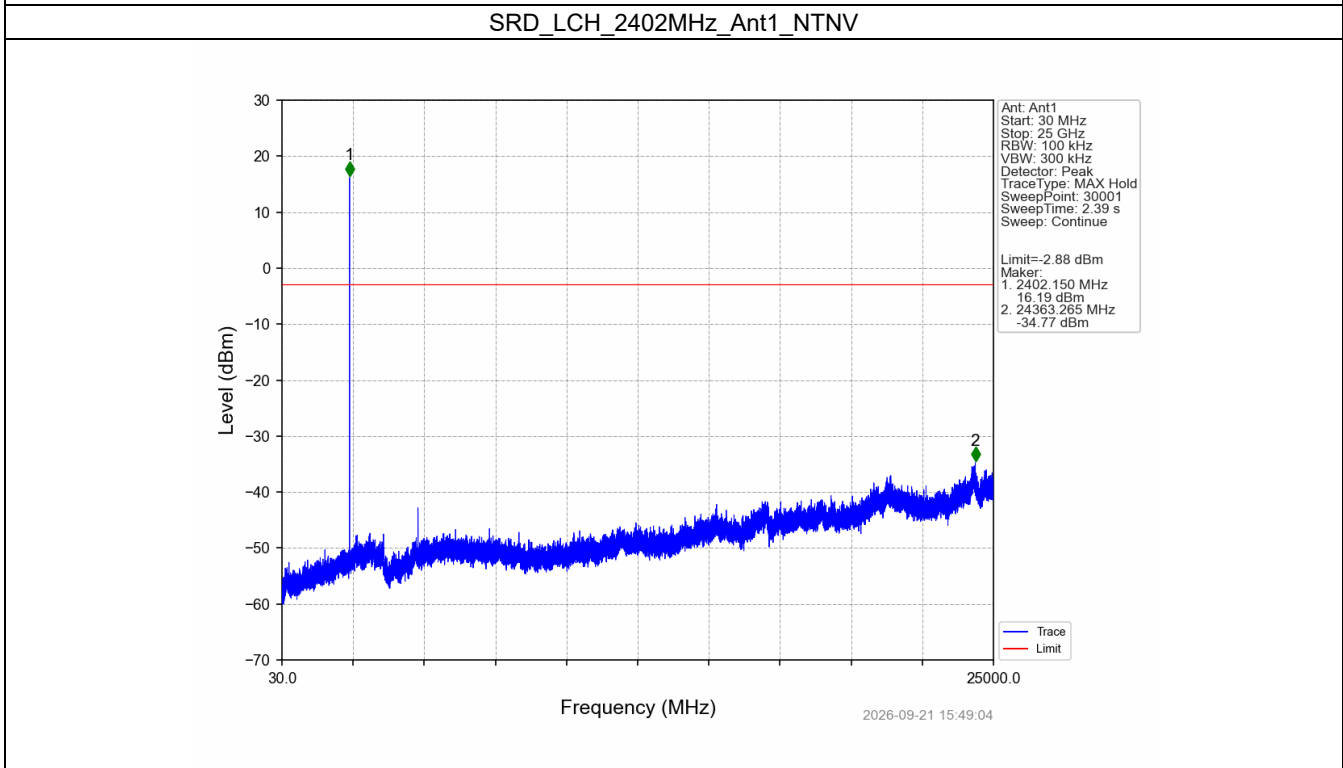
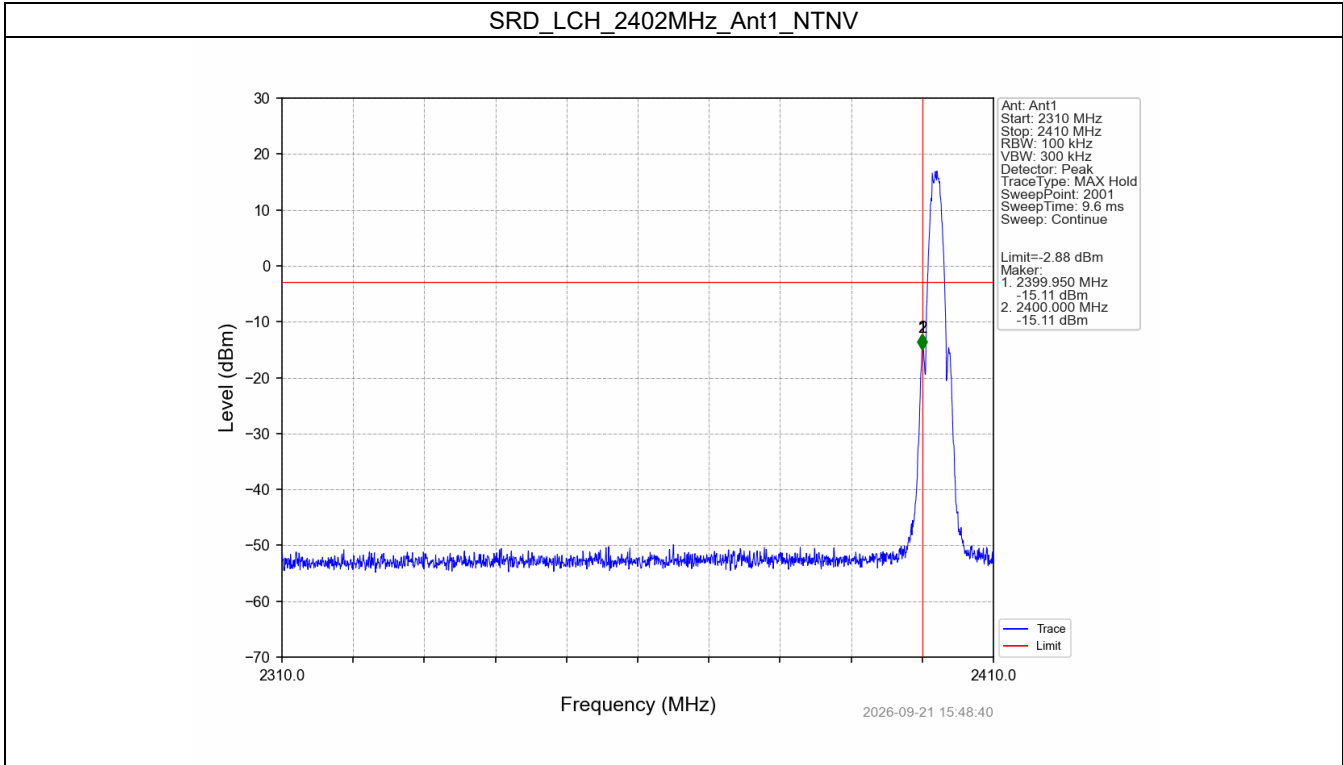
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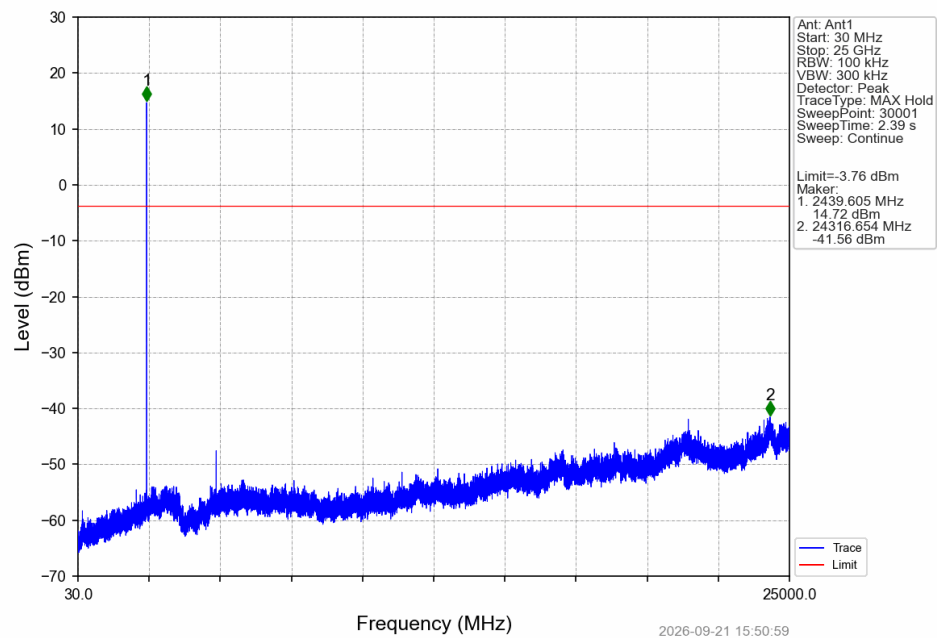
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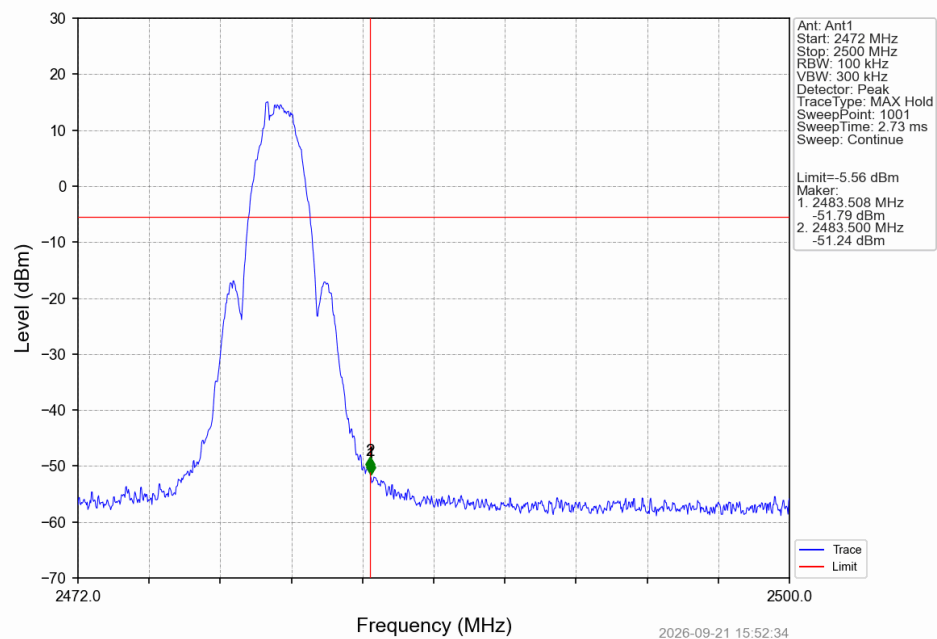
7.2.2 CSE



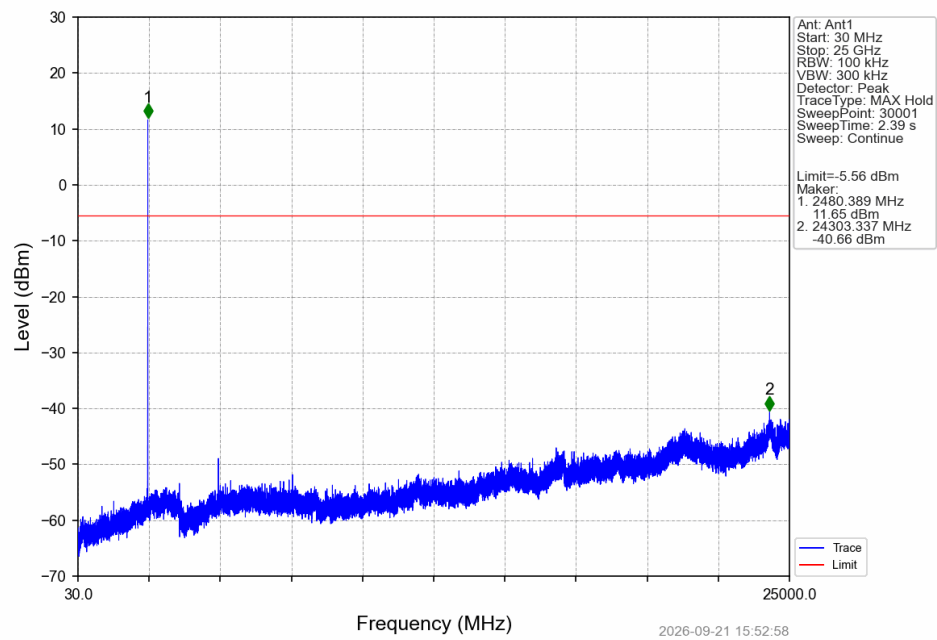
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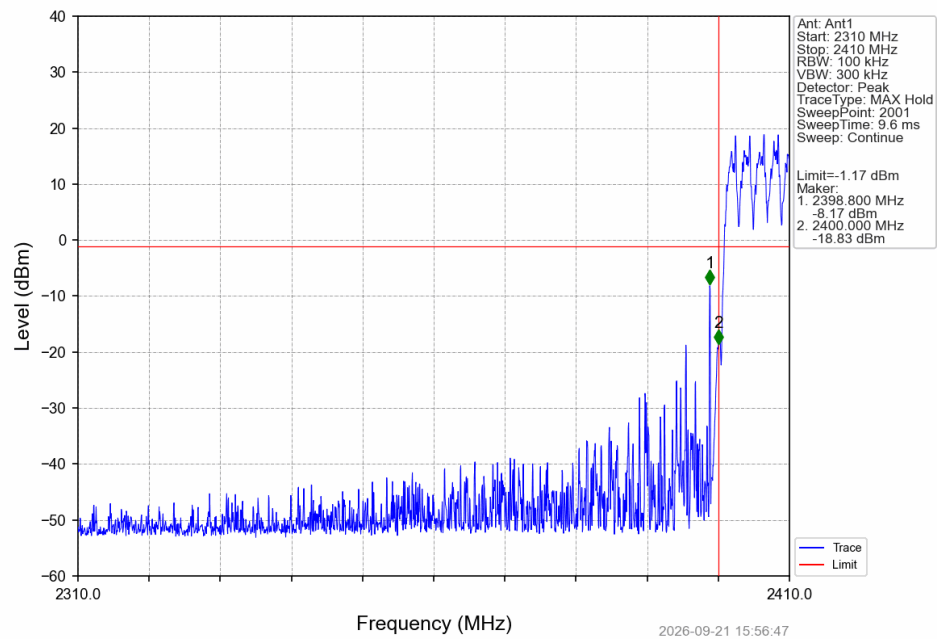
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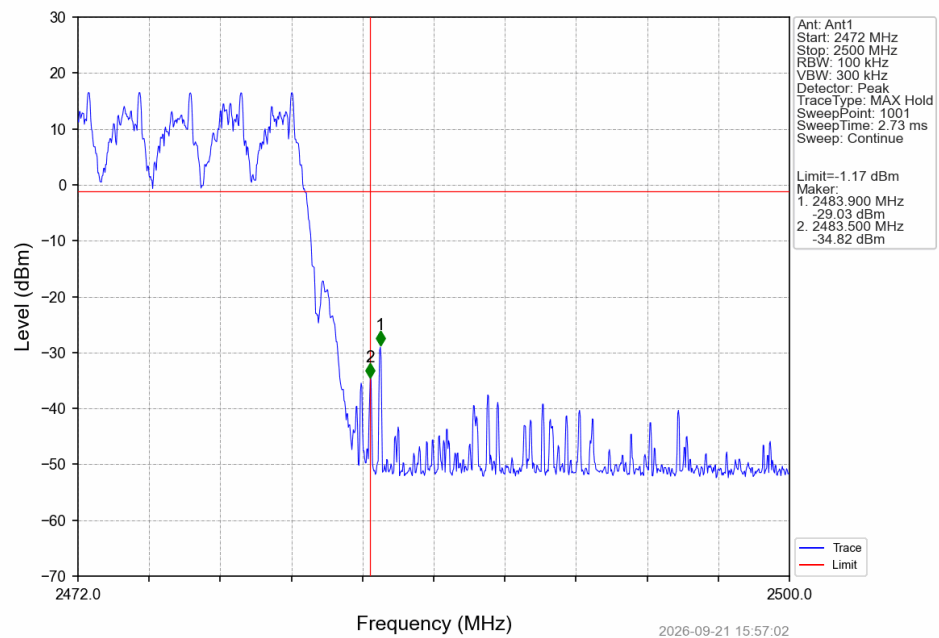
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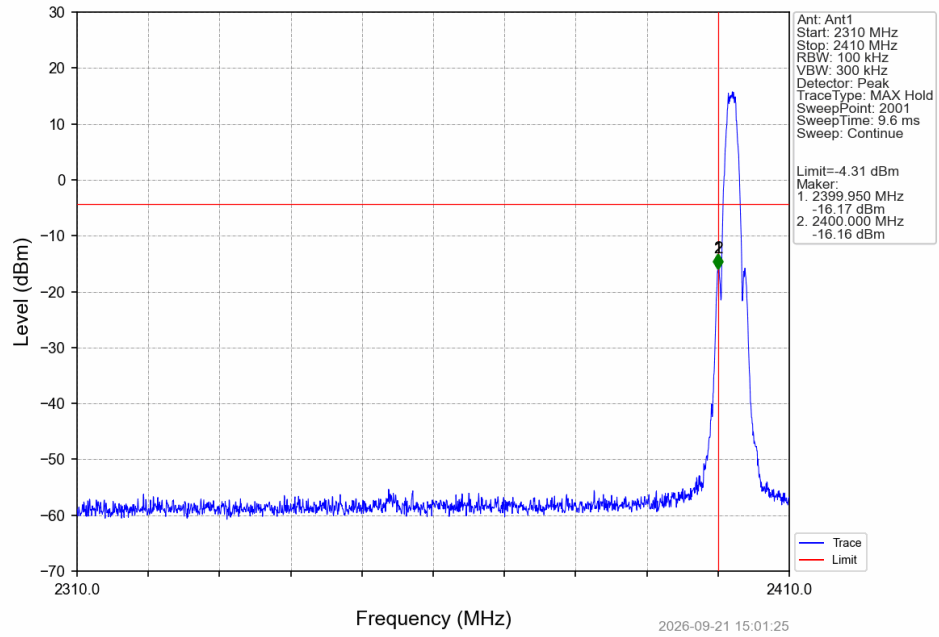
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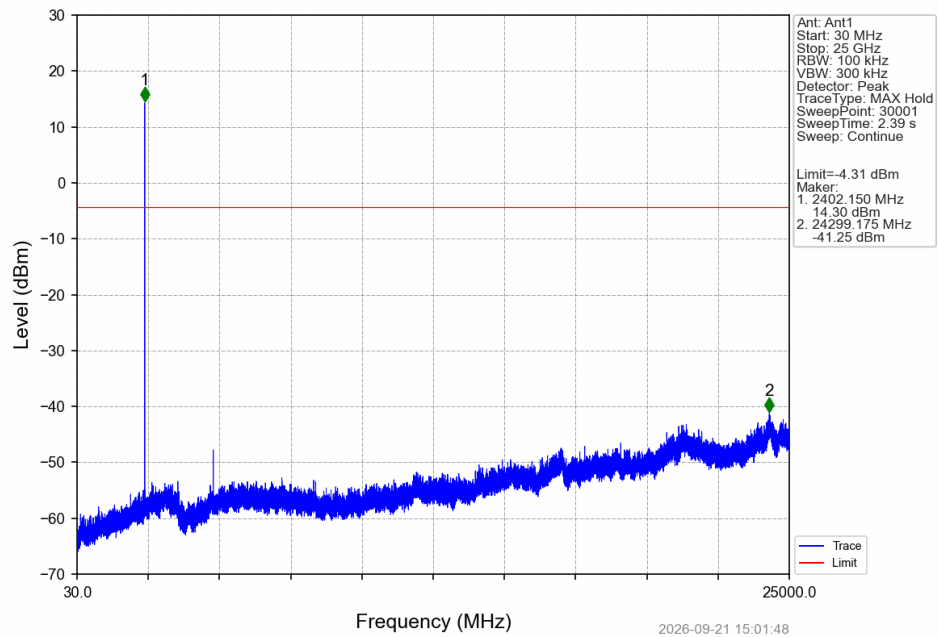
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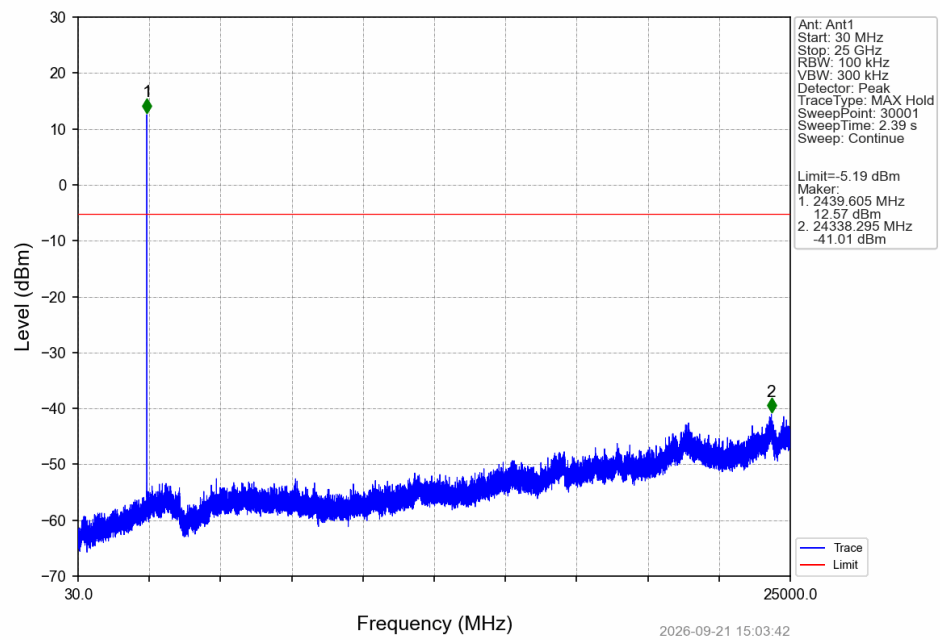
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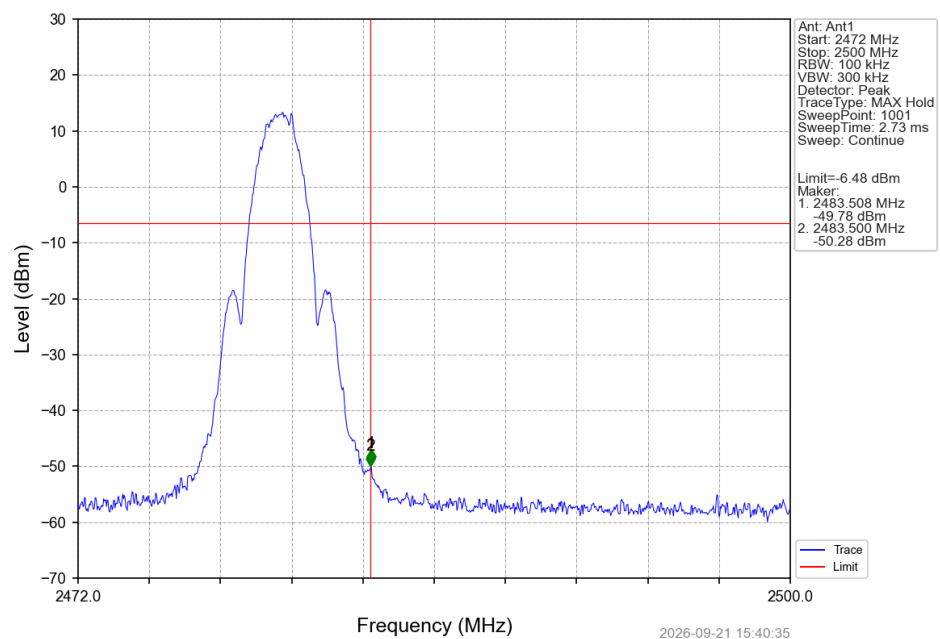
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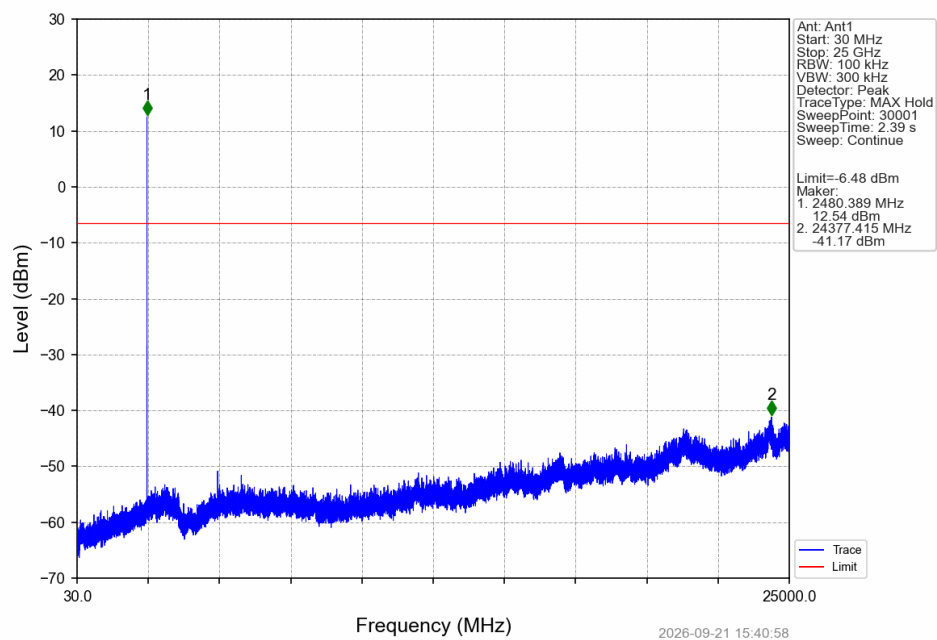
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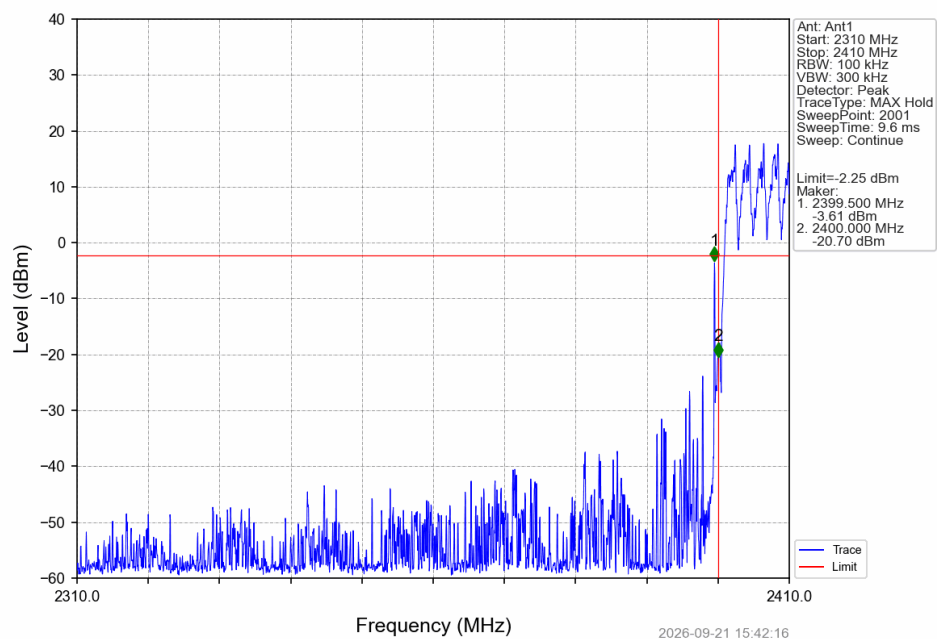
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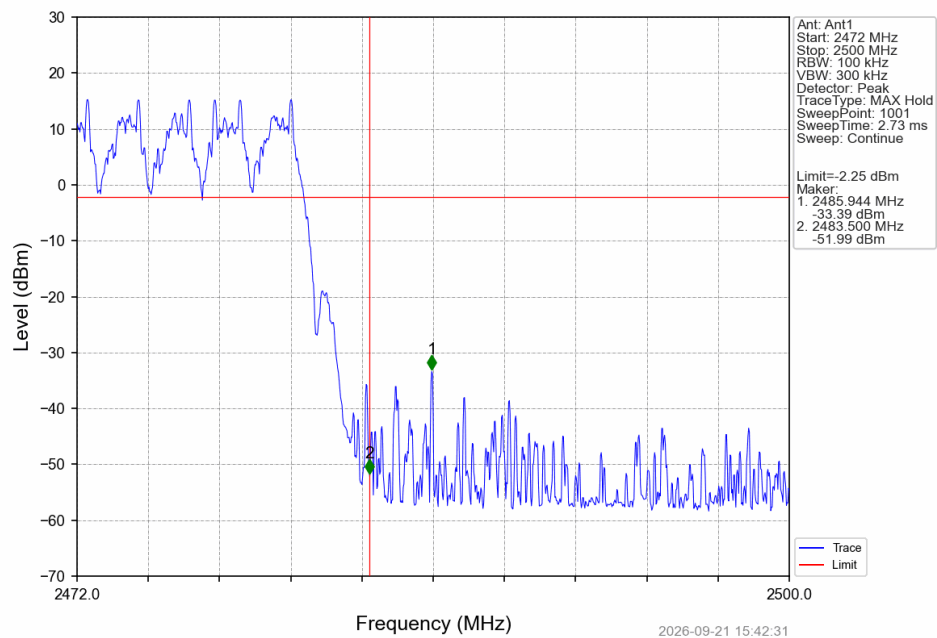
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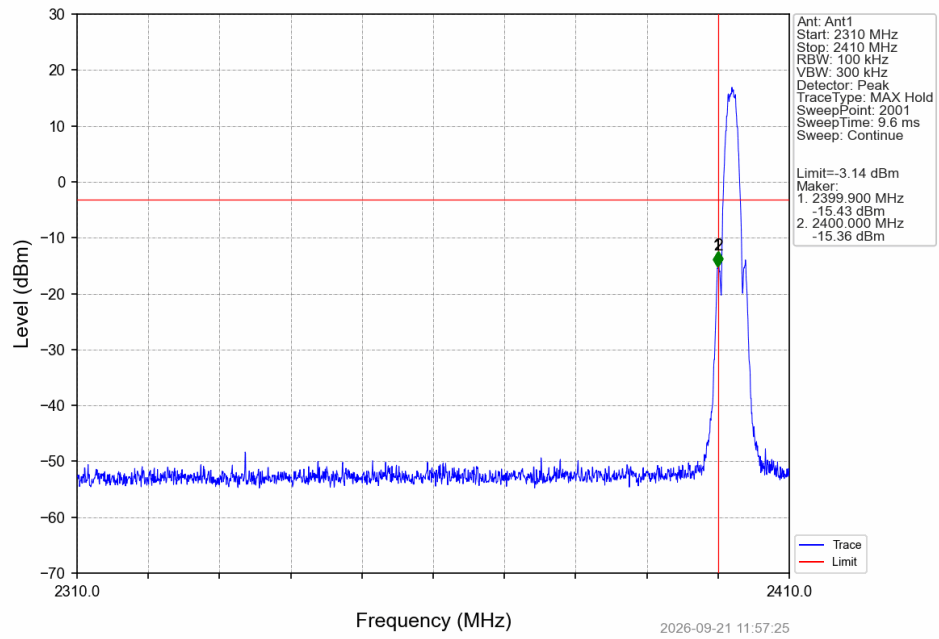
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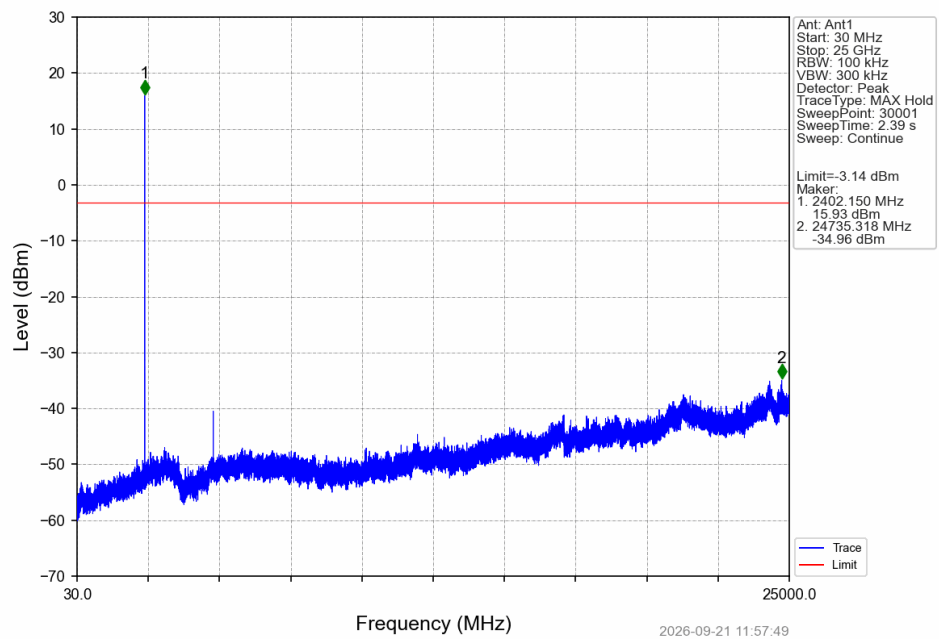
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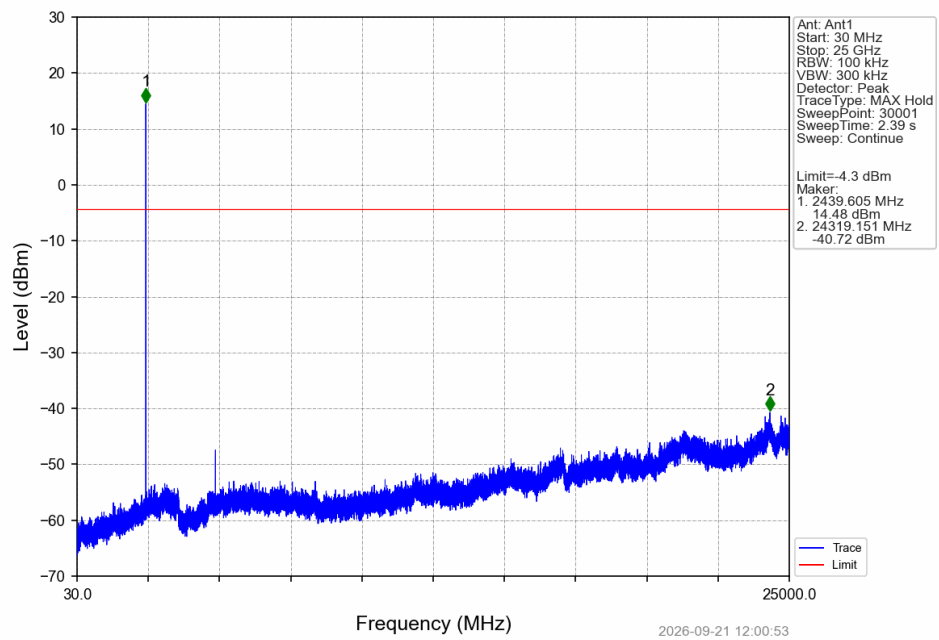
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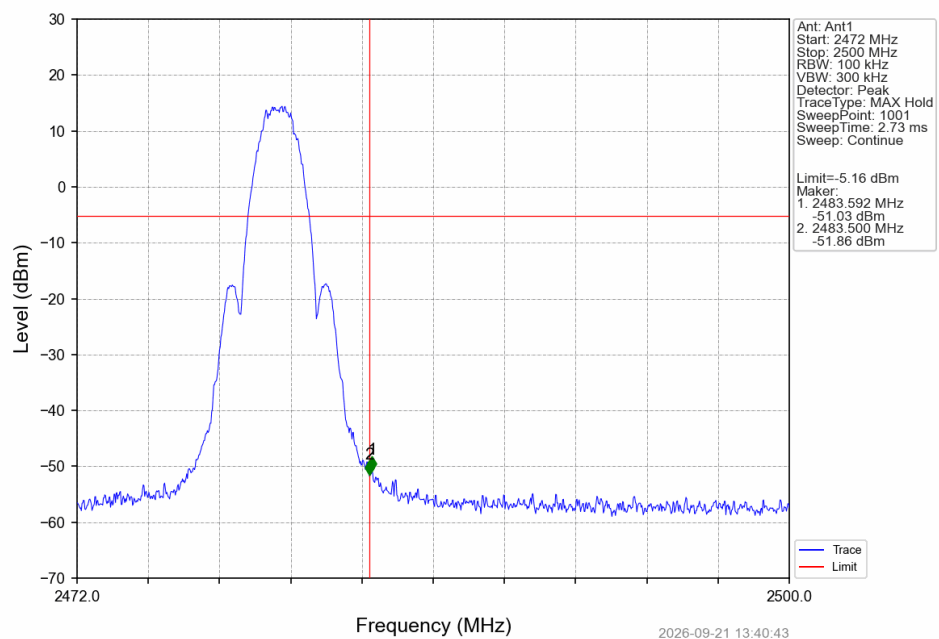
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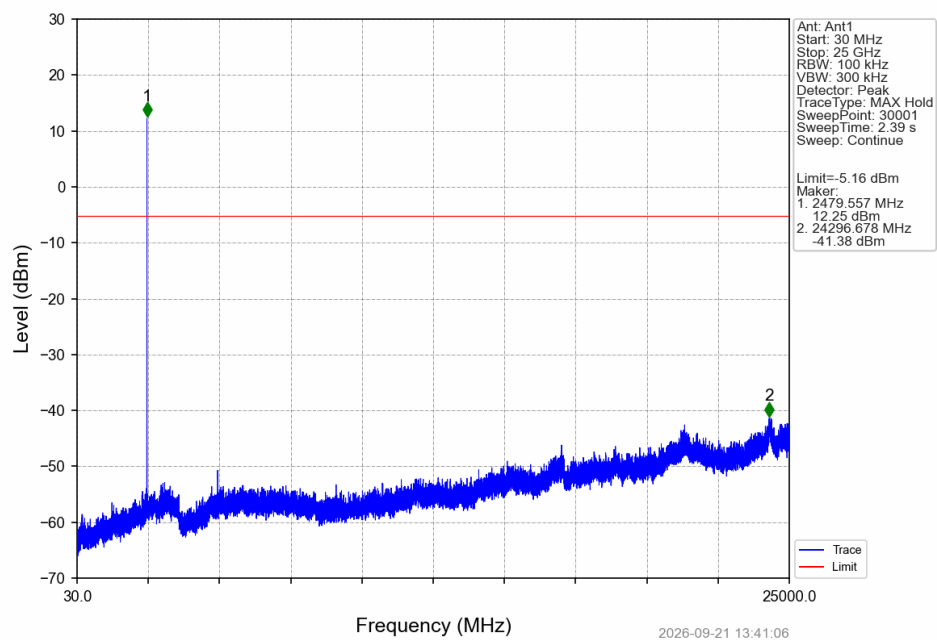
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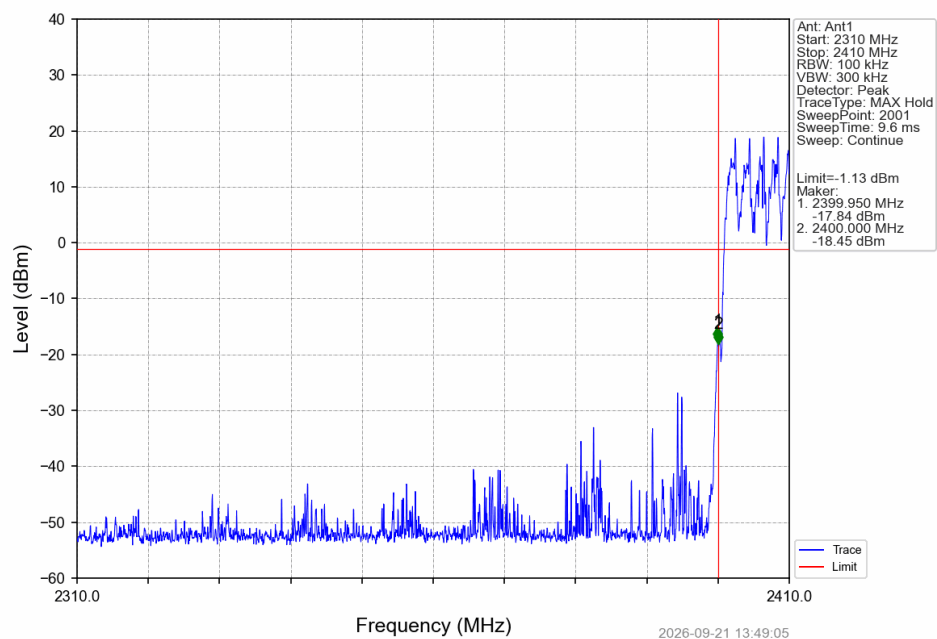
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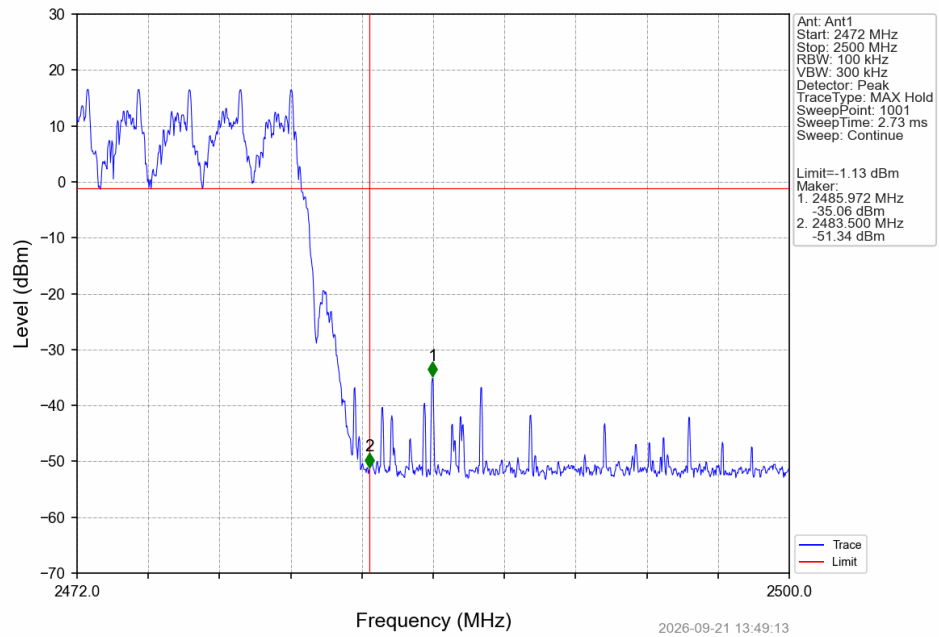
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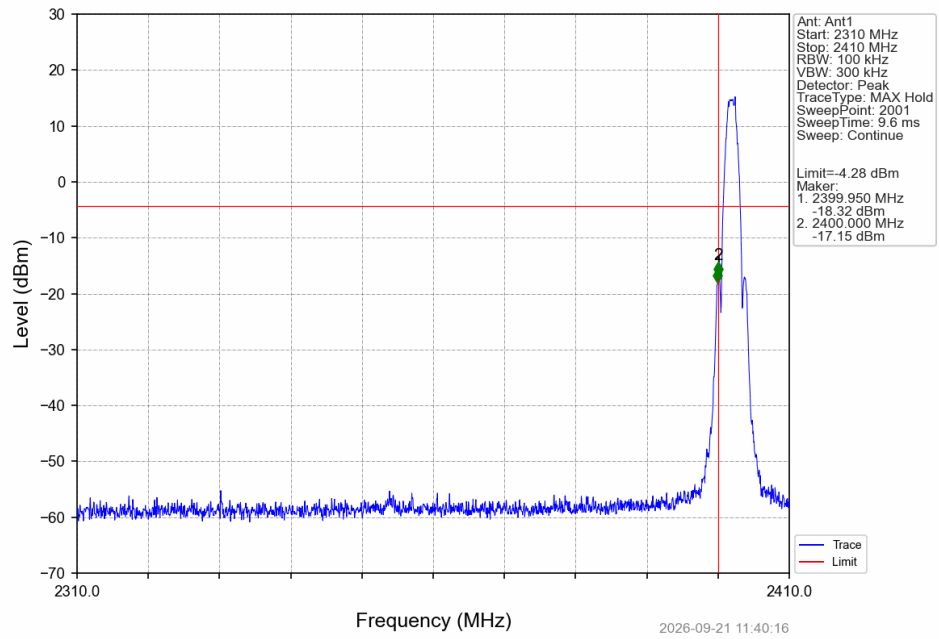
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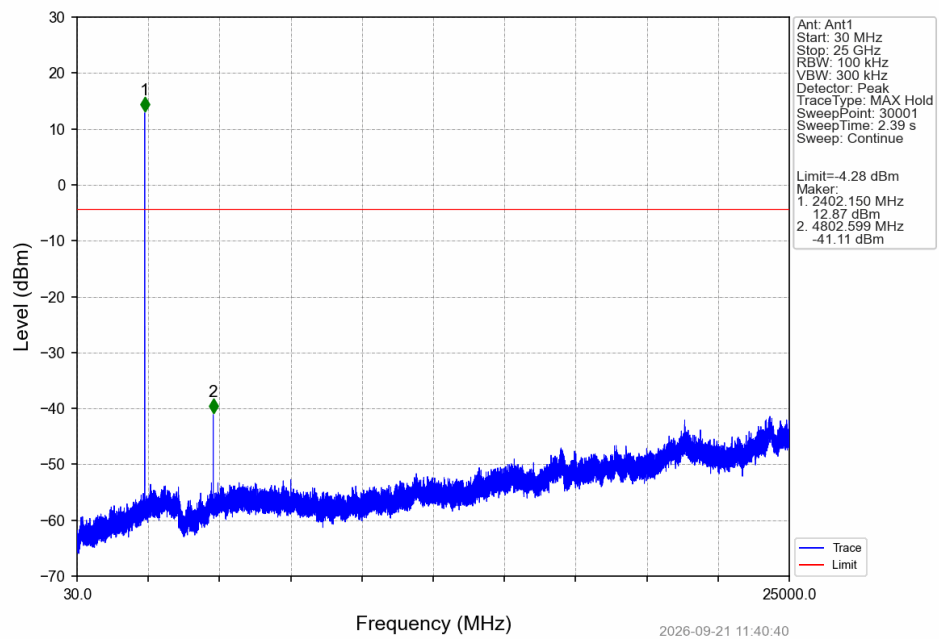
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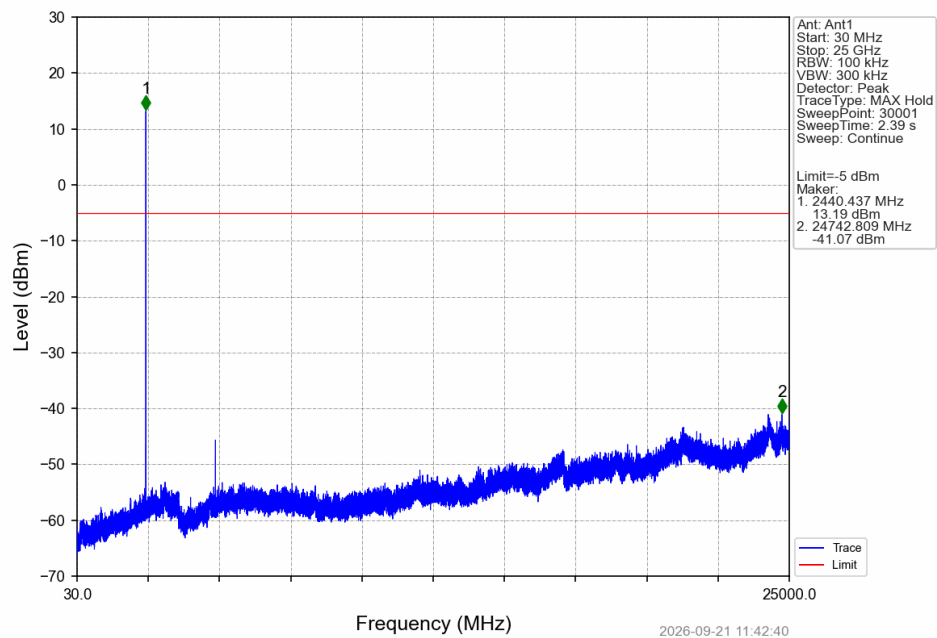
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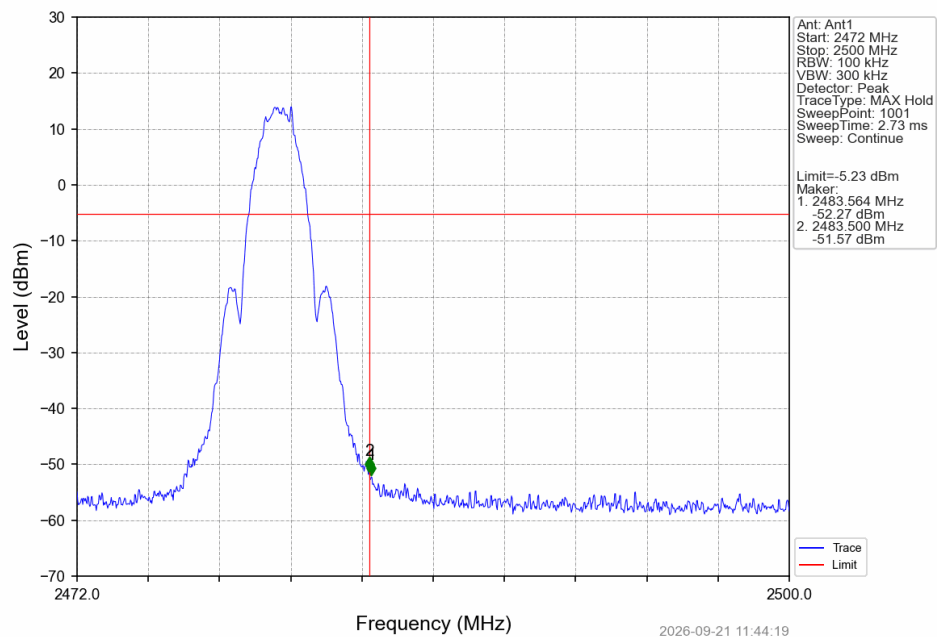
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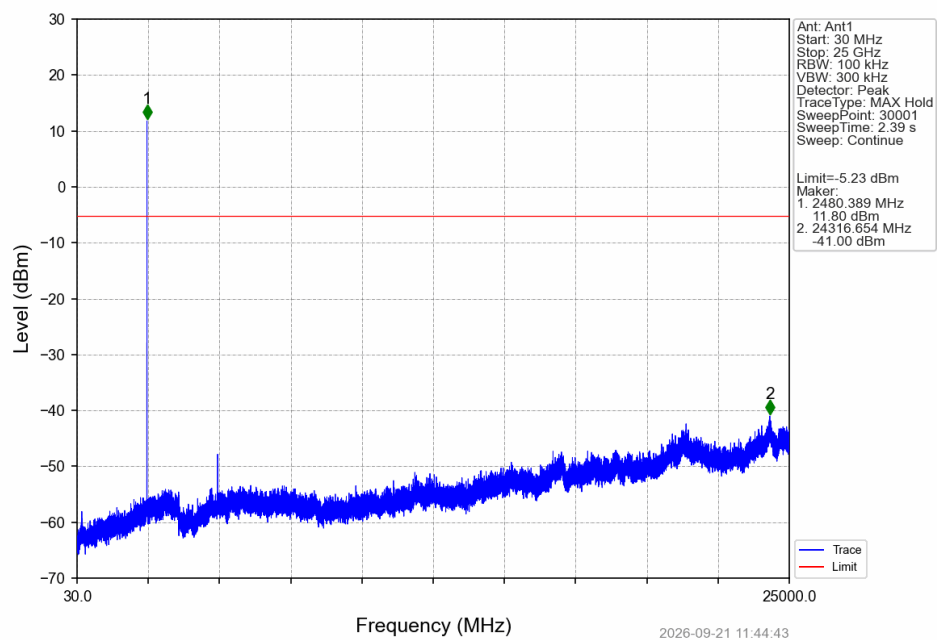
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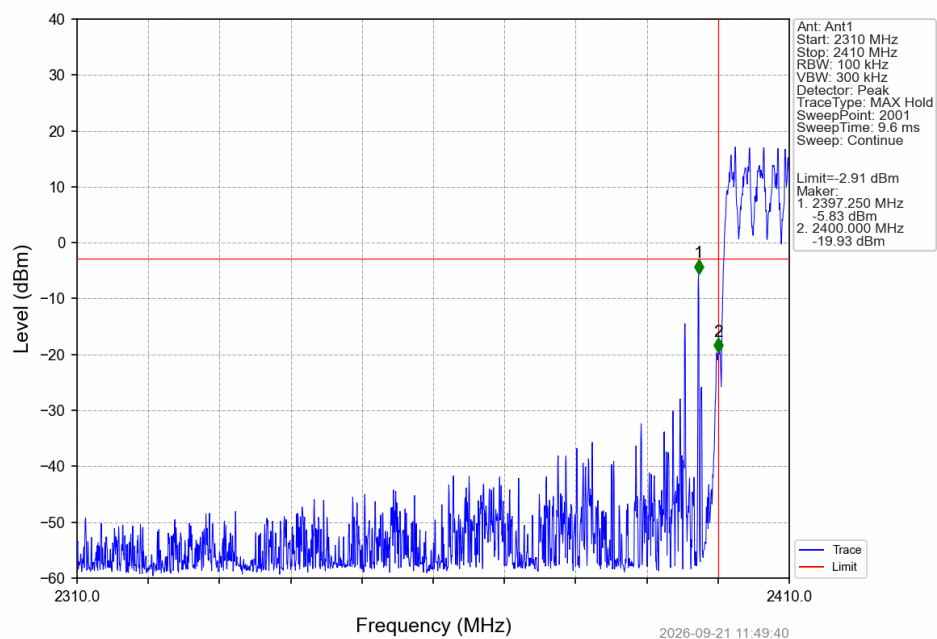
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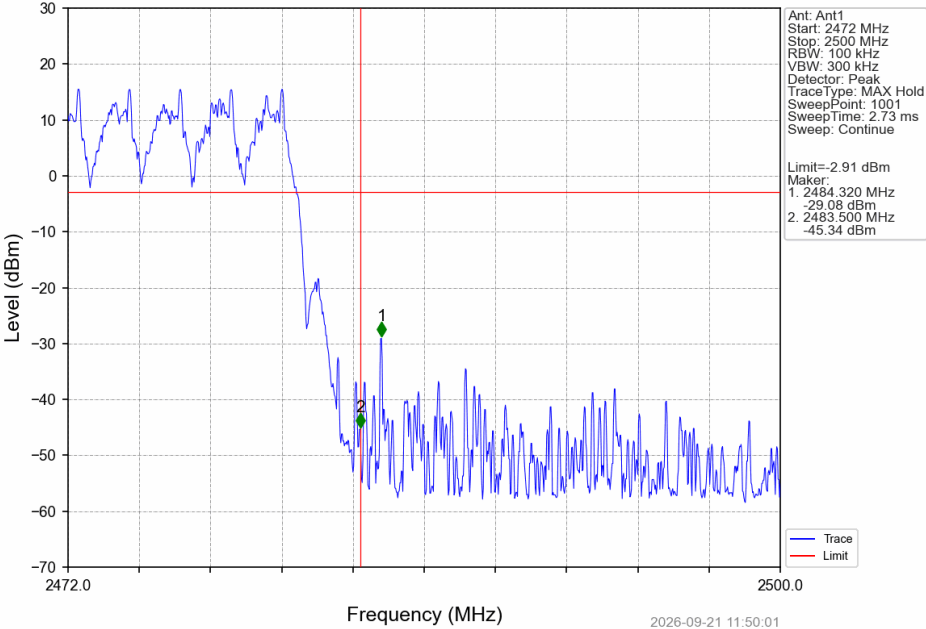
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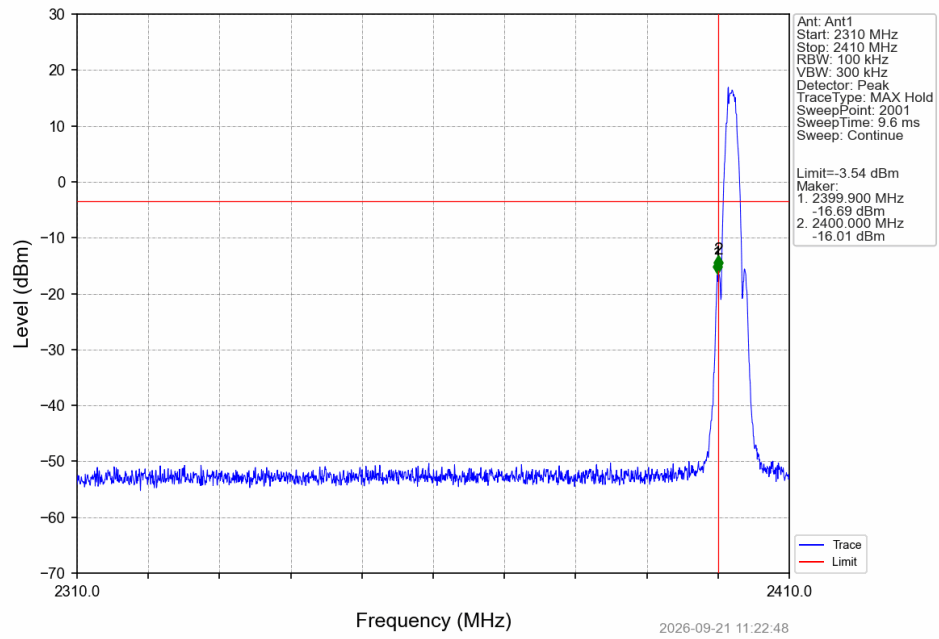
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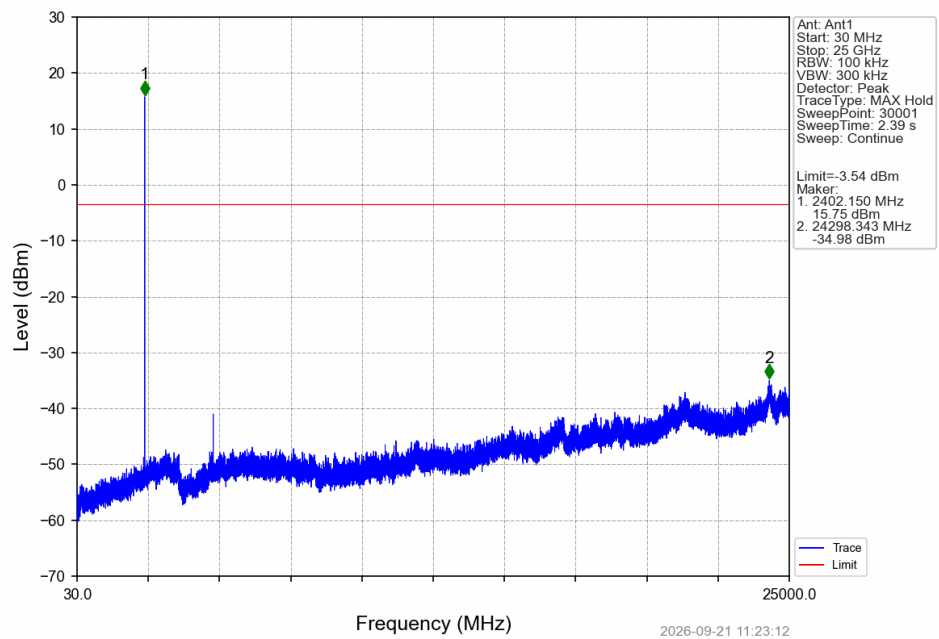
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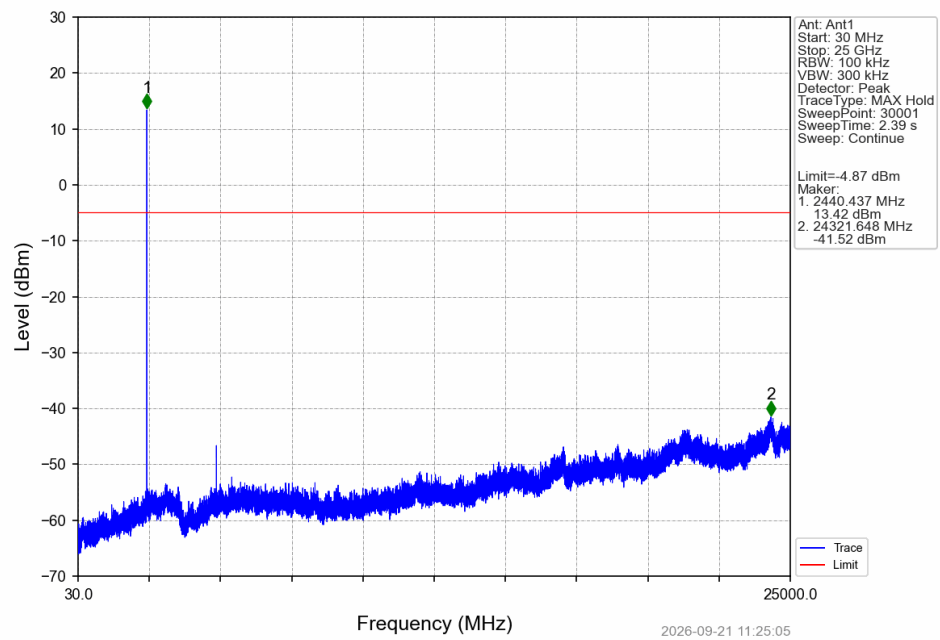
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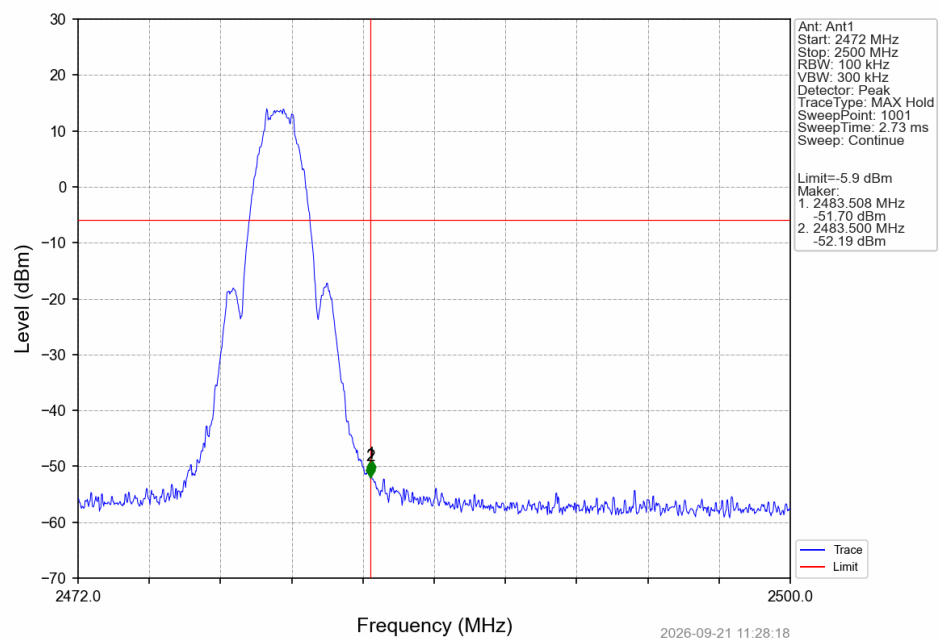
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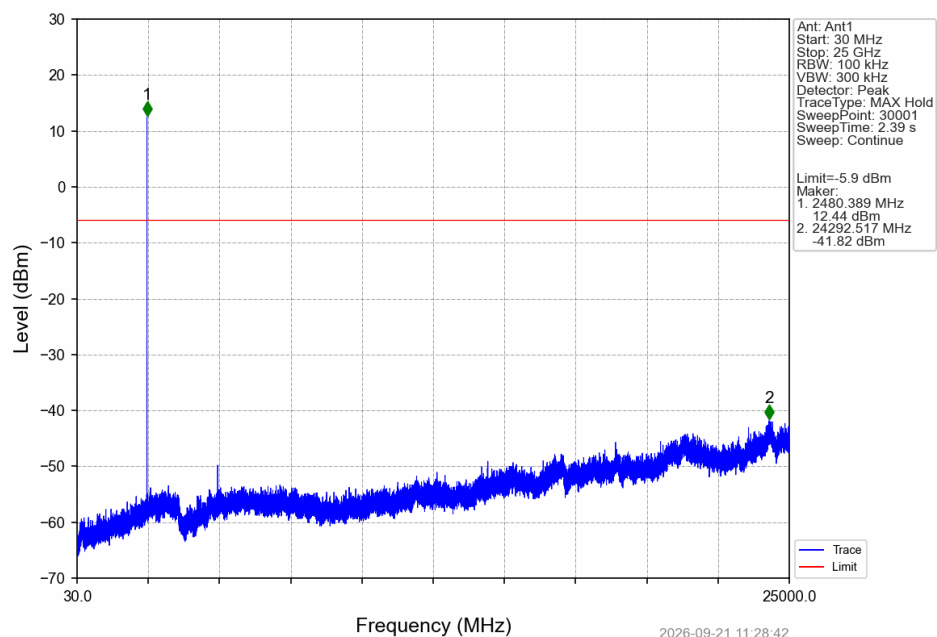
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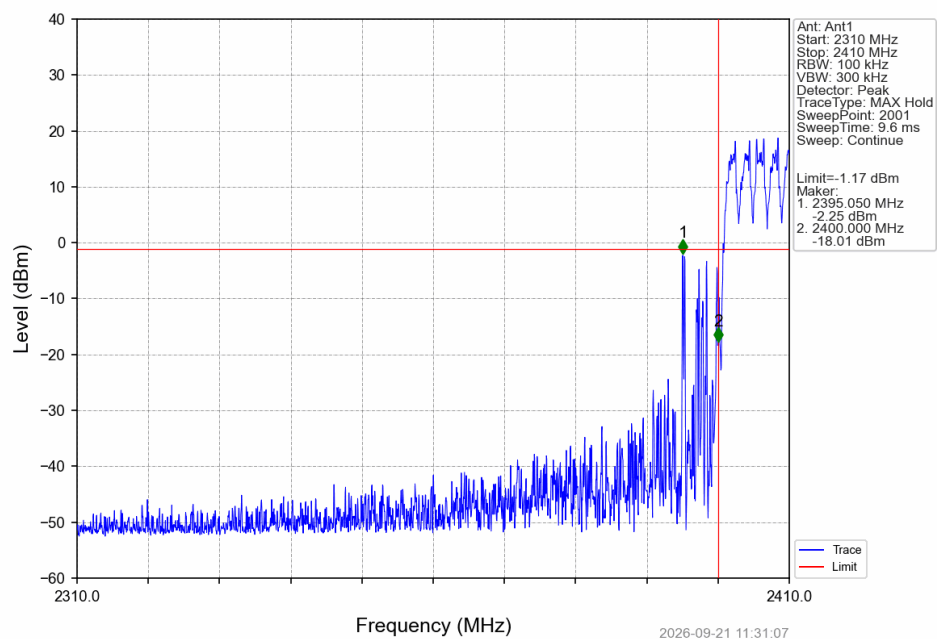
SRD_HCH_2480MHz_Ant5_NTNV



SRD_HCH_2480MHz_Ant5_NTNV



SRD_HOPP_Ant5_NTNV



SRD_HOPP_Ant5_NTNV

