

RF Test Report

Project Number: 5214055**Offer Number: SUW-202408006976****Report Number: 5214055EMC02****Revision Level: 4****Client: Alarm.com Incorporated****Equipment Under Test: Alarm.com 4MP Indoor/Outdoor Spotlight Battery Camera****Model Number: ADC-V731B****FCC ID: YL6-143V731B****IC ID: 9111A-143V731B****Applicable Standards: ANSI C63.10: 2020 (FCC Part 15 Subpart C, § 15.247)****RSS-247, Issue 3****RSS-GEN Issue 5****Report issued on: 29 May 2025****Report revised on: 18 July 2025****Test Result: Compliant**

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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1 Summary of Test Results

Test Description	Test Specification		Test Result
Bandwidth	15.247(a)(2)	RSS-247 S5.2 (a) RSS-GEN S6.6	Compliant
Peak Output Power	15.247(b)(3)	RSS-247 S5.4 (d)	Compliant
Power Spectral Density	15.247(e)	RSS-247 S5.2 (b)	Compliant
Conducted Spurious Emissions / Band Edge	15.247(d)	RSS-247 S5.5	Compliant
Field Strength of Spurious Radiation	15.247(d), 15.209	RSS-247 S5.5	Compliant
Emissions in Restricted Frequency Bands	15.205, 15.209	RSS-GEN S8.9, S8.10	Compliant
Antenna Requirement	15.203	RSS-GEN S8.3	Compliant
AC Powerline Conducted Emissions	15.107, 15.207	RSS-GEN S8.8	N/A (1)

1) Product is battery powered. Conducted Emissions not applicable.

1.1 Modifications Required for Compliance

None

2 General Information

2.1 Client Information

Name: Alarm.com Incorporated
Address: 8281 Greensboro Drive, Suite 100
City, State, Zip, Country: Tysons, VA 22102, USA

2.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

2.3 General Information of EUT

Product Marketing Name (PMN): Alarm.com 4MP Indoor/Outdoor Spotlight Battery Camera
Model Number (HVIN): ADC-V731B
Firmware Version ID (FVIN): v0.0.22-v731b-20240927-dev
Serial Number: 50407410F2F1 (Conducted Sample); 50407410F2B2 (Radiated Sample)

Frequency Range: 2402 – 2480 MHz
Data Modes: Bluetooth Low Energy – GFSK
Antenna:

2.4GHz	Frequency(MHz)	2400	2450	2500
Ant.1	Peak Gain(dBi)	1.7	1.5	1.4
	Efficiency(%)	62	60	59
Ant.2	Peak Gain(dBi)	1.9	2.0	1.7
	Efficiency(%)	62	60	57

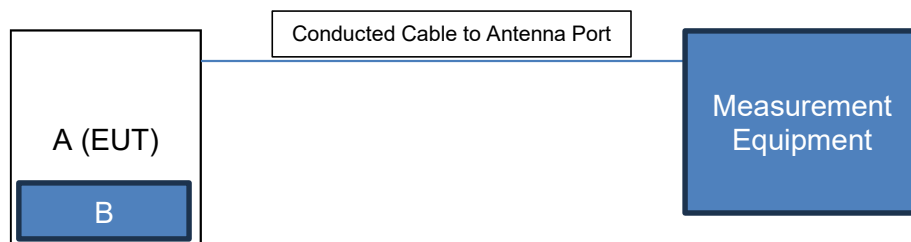
Rated Voltage: Battery (3.6VDC)
Test Voltage: Battery (3.6VDC)

Sample Received Date: 21 October 2024
Dates of testing: 02 November 2024 – 18 July 2025

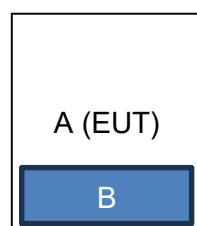
2.4 Operating Modes and Conditions

The EUT was programmed by the manufacturer to transmit on low, mid and high channels in all necessary modulation and modes of operation.

2.5 EUT Connection Block Diagram – Conducted Measurements



2.6 EUT Connection Block Diagram – Radiated Measurements



Inside Chamber

Outside Chamber

2.7 System Configurations

Device Reference	Manufacturer	Description	Model Number	Serial Number
A	Alarm.com Incorporated	Alarm.com 4MP Indoor/Outdoor Spotlight Battery Camera (Conducted Sample)	ADC-V731B	50407410F2F1
A	Alarm.com Incorporated	Alarm.com 4MP Indoor/Outdoor Spotlight Battery Camera (Radiated Sample)	ADC-V731B	50407410F2B2
B	Fuji Electronics (Shenzhen) Co., LTD	Battery	833002	FJ8330022401000139

2.8 Cable List

Cable reference	Port Name	Start	End	Cable Length (m)	Ferrite installed?	Shielded?
1	None					

3 Bandwidth

3.1 Test Result

Test Description	Test Specification		Test Result
6 dB bandwidth	15.247(a)(2)	RSS-247 S5.2 (a) RSS-GEN S6.6	Compliant

3.2 Test Method

The procedures from ANSI C63.10:2020 clause 11.8 and KDB 558074 D01 15.247 Meas Guidance v05r02 were used to determine the 6 dB bandwidth.

3.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.52 °C

Relative Humidity: 48.3 %

Atmospheric Pressure: 99.12 kPa

3.4 Test Equipment

Test End Date: 15-May-2025

Tester: SGM

Equipment	Manufacturer	Model	Asset Number	Cal Date	Cal Due Date
RF CABLE SMA TO SMA, 0.01-40GHZ	TELEDYNE STORM MICROWAVE	084-0505-059	20108	3-Apr-2025	3-Apr-2026
RF CABLE SMA TO SMA, 0.01-40GHZ	TELEDYNE STORM MICROWAVE	084-0505-059	20109	3-Apr-2025	3-Apr-2026
TSTPASS SWITCHBOX	TSTPASS	SB2	23009	4-Apr-2025	4-Apr-2026
SIGNAL ANALYZER (TS8997)	ROHDE & SCHWARZ	FSV30	B085749	4-Mar-2025	4-Mar-2026

3.5 Test Data - 99%OBW

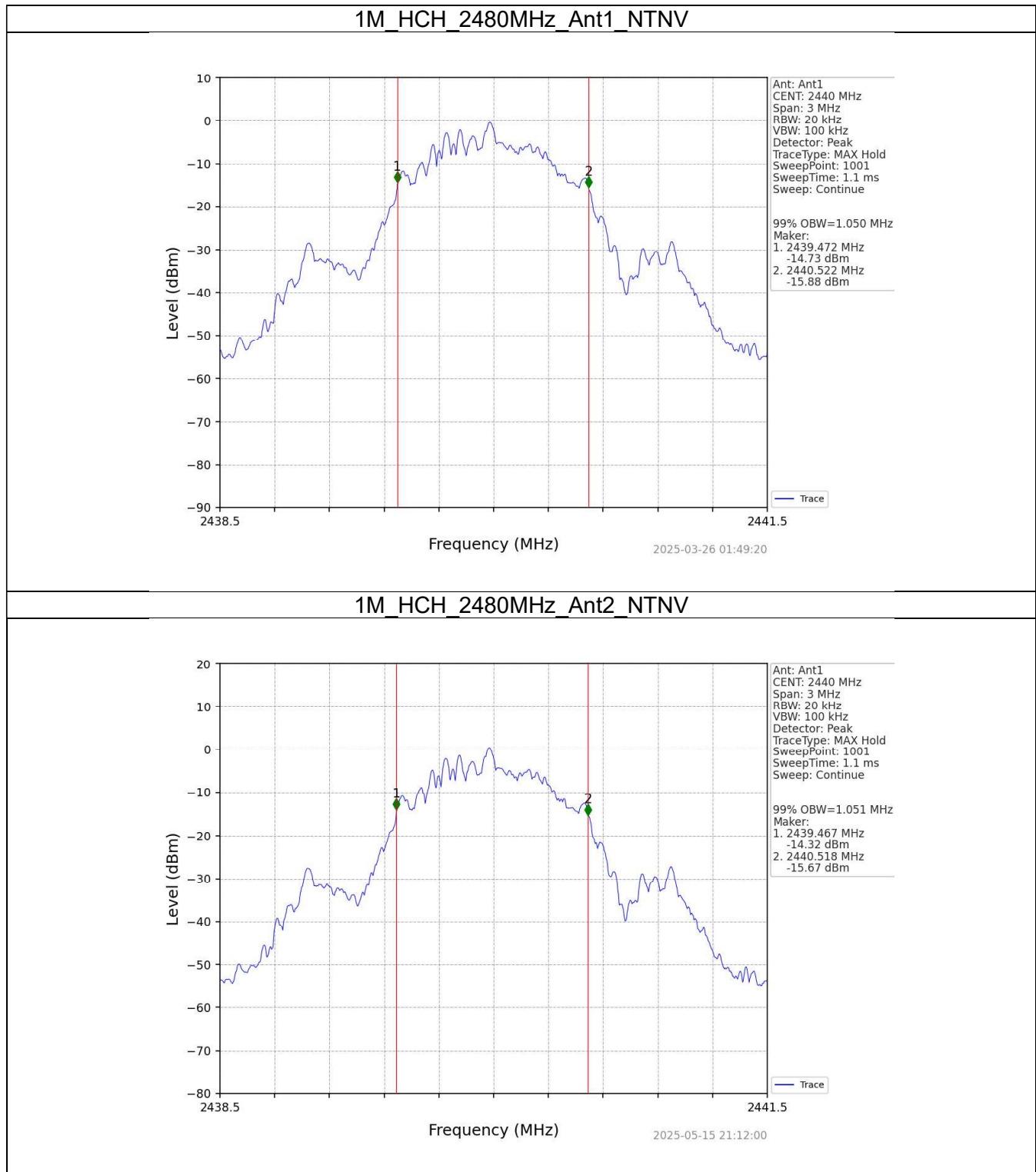
Ant 1

Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
			Result	Limit	
1M	SISO	2402	1.047	/	Pass
		2440	1.050	/	Pass
		2480	1.048	/	Pass
2M	SISO	2402	2.087	/	Pass
		2440	2.086	/	Pass
		2480	2.086	/	Pass

Ant 2

Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
			Result	Limit	
1M	SISO	2402	1.048	/	Pass
		2440	1.051	/	Pass
		2480	1.046	/	Pass
2M	SISO	2402	2.088	/	Pass
		2440	2.088	/	Pass
		2480	2.083	/	Pass

3.5.1 Example Plots



3.5.2 Test Data – 6dB down

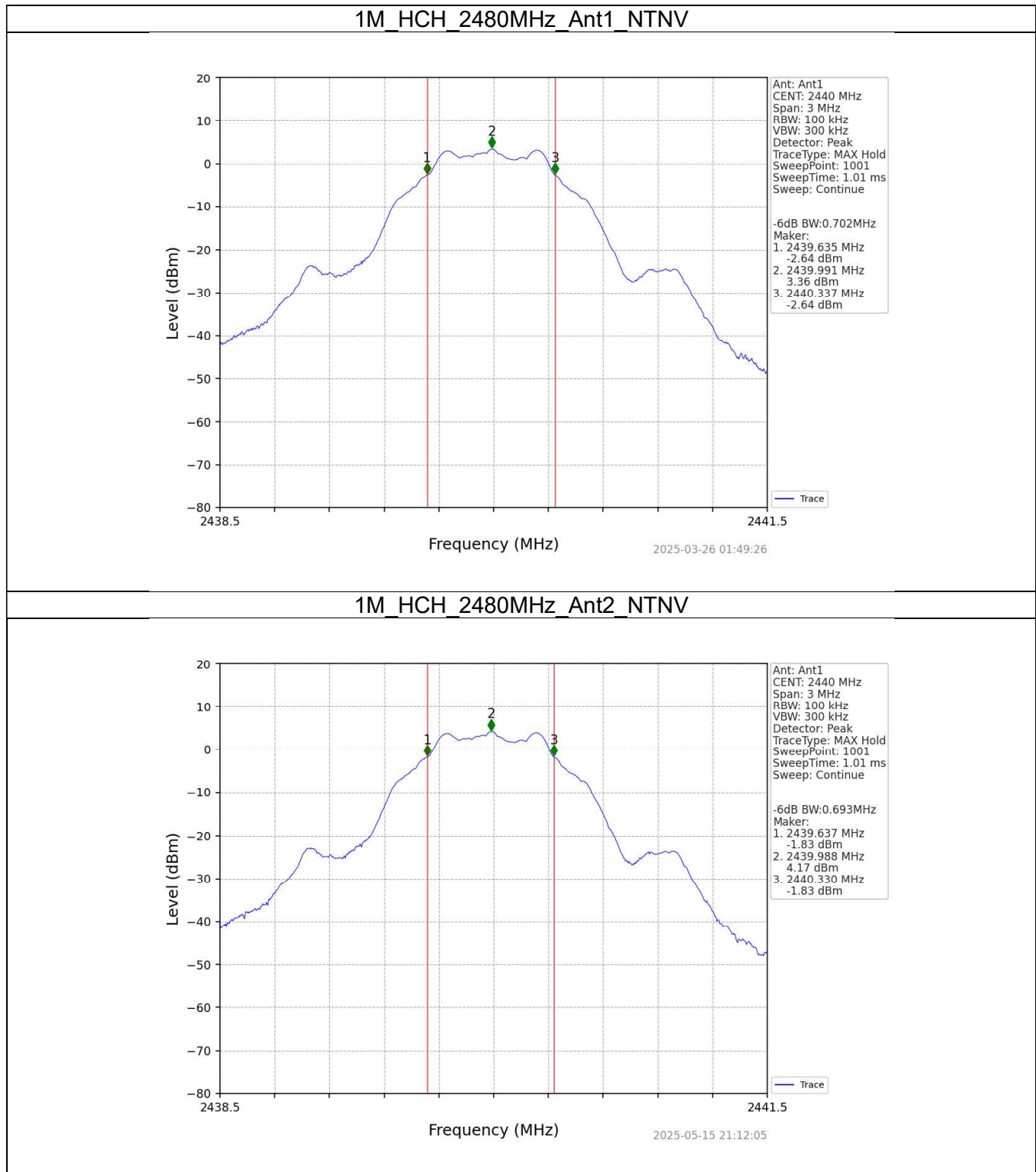
Ant 1

Mode	TX Type	Frequency (MHz)	6dB Bandwidth (MHz)		Verdict
			Result	Limit	
1M	SISO	2402	0.702	≥ 0.5	Pass
		2440	0.702	≥ 0.5	Pass
		2480	0.703	≥ 0.5	Pass
2M	SISO	2402	1.286	≥ 0.5	Pass
		2440	1.293	≥ 0.5	Pass
		2480	1.295	≥ 0.5	Pass

Ant 2

Mode	TX Type	Frequency (MHz)	6dB Bandwidth (MHz)		Verdict
			Result	Limit	
1M	SISO	2402	0.710	≥ 0.5	Pass
		2440	0.693	≥ 0.5	Pass
		2480	0.684	≥ 0.5	Pass
2M	SISO	2402	1.312	≥ 0.5	Pass
		2440	1.294	≥ 0.5	Pass
		2480	1.277	≥ 0.5	Pass

3.5.3 Example Plots



4 Peak Output Power

4.1 Test Result

Test Description	Test Specification		Test Result
Peak Output Power	15.247(b)(3)	RSS-247 S5.4 (d)	Compliant

4.2 Test Method

Fundamental peak power measurements were recorded using the procedures from ANSI C63.10:2020 clause 11.9 and KDB 558074 D01 15.247 Meas Guidance v05r02.

Limit

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. For using antennas with greater than 6dBi of gain, the limit is reduced in dB by the amount the gain exceeds 6dBi (e.g. for a 7.4dBi antenna, the limit is reduced from 30dBm to 28.6dBm)

4.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.52 °C

Relative Humidity: 48.3 %

Atmospheric Pressure: 99.12 kPa

4.4 Test Equipment

Test End Date: 26-Mar-2025

Tester: SGM

Equipment	Manufacturer	Model	Asset Number	Cal Date	Cal Due Date
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM MICROWAVE	20108	20-Mar-24	20-Apr-2025
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	3-Jan-2024	3-Jan-2025
TSTPASS SWITCHBOX	SB2	TSTPASS	23009	8-Apr-2024	8-Apr-2025

Test End Date: 15-May-2025

Tester: SGM

Equipment	Manufacturer	Model	Asset Number	Cal Date	Cal Due Date
RF CABLE SMA TO SMA, 0.01-40GHZ	TELEDYNE STORM MICROWAVE	084-0505-059	20108	3-Apr-2025	3-Apr-2026
RF CABLE SMA TO SMA, 0.01-40GHZ	TELEDYNE STORM MICROWAVE	084-0505-059	20109	3-Apr-2025	3-Apr-2026
TSTPASS SWITCHBOX	TSTPASS	SB2	23009	4-Apr-2025	4-Apr-2026
SIGNAL ANALYZER (TS8997)	ROHDE & SCHWARZ	FSV30	B085749	4-Mar-2025	4-Mar-2026

4.5 Test Data

Antenna 1

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	4.24	<=30	Pass
		2440	4.19	<=30	Pass
		2480	4.50	<=30	Pass
2M	SISO	2402	3.96	<=30	Pass
		2440	4.03	<=30	Pass
		2480	4.90	<=30	Pass

Note1: Antenna Gain: Ant1: 1.70dBi;

Antenna 2

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	4.78	<=30	Pass
		2440	5.05	<=30	Pass
		2480	4.90	<=30	Pass
2M	SISO	2402	4.77	<=30	Pass
		2440	5.04	<=30	Pass
		2480	4.92	<=30	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;

Antenna 1 - EIRP

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.94	<=36.02	Pass
		2440	5.89	<=36.02	Pass
		2480	6.20	<=36.02	Pass
2M	SISO	2402	5.66	<=36.02	Pass
		2440	5.73	<=36.02	Pass
		2480	6.60	<=36.02	Pass

Note1: Antenna Gain: Ant1: 1.70dBi;

Note2: E.I.R.P = Measured Power + Antenna Gain

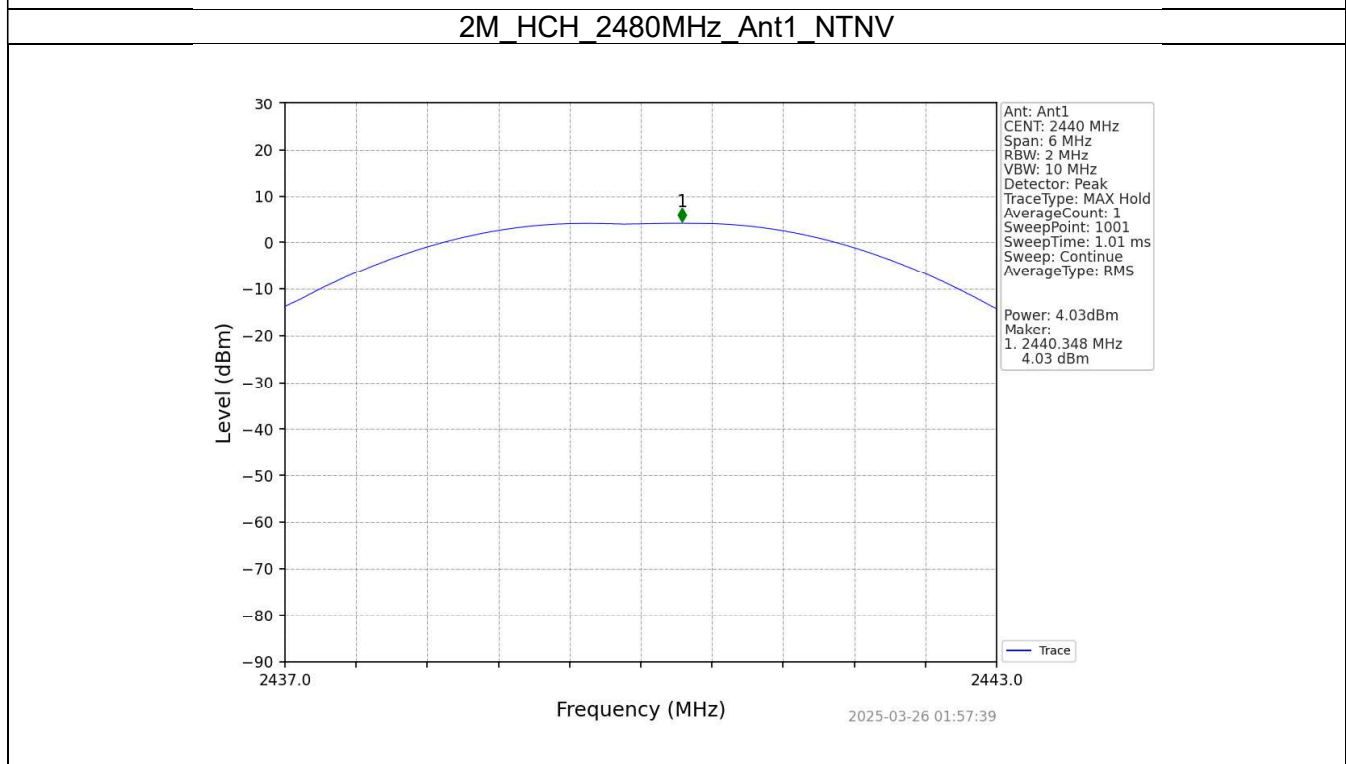
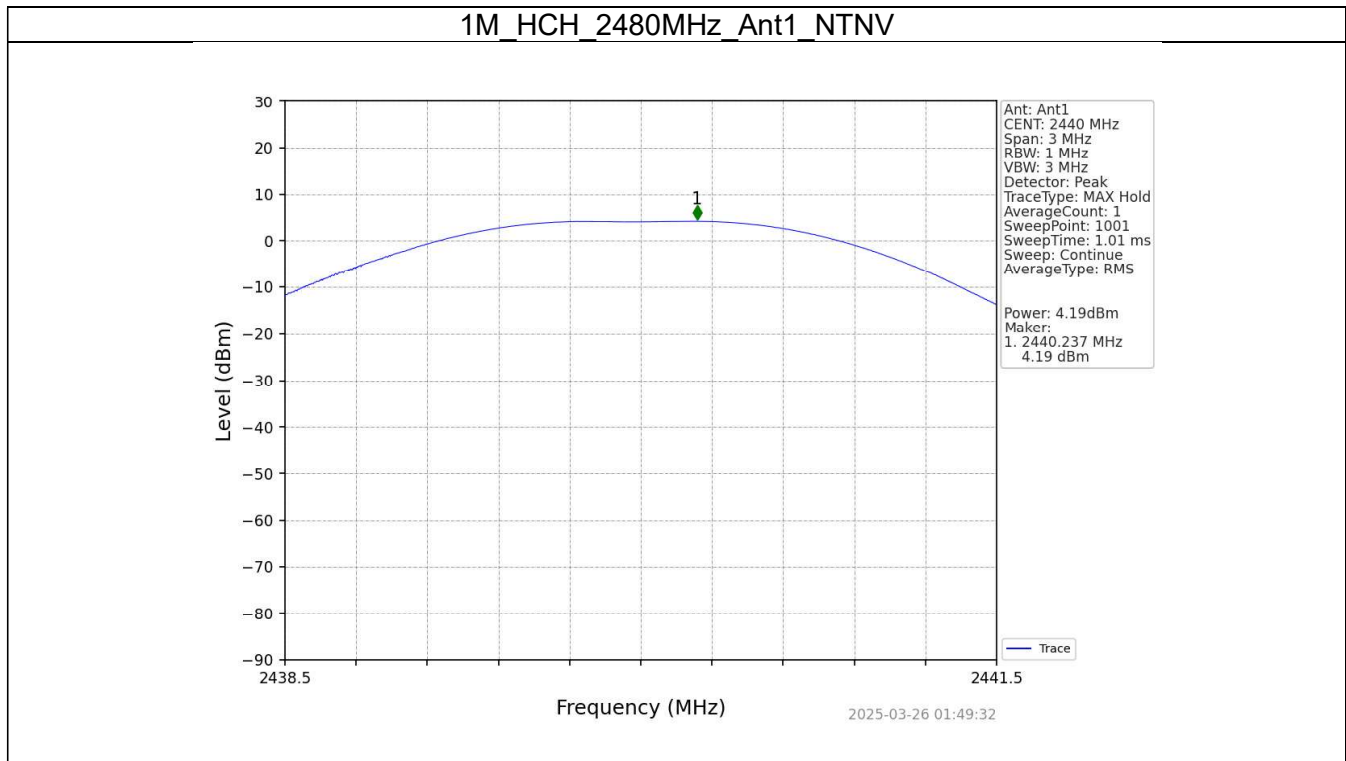
Antenna 2 – EIRP

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	6.78	<=36.02	Pass
		2440	7.05	<=36.02	Pass
		2480	6.90	<=36.02	Pass
2M	SISO	2402	6.77	<=36.02	Pass
		2440	7.04	<=36.02	Pass
		2480	6.92	<=36.02	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;

Note2: E.I.R.P = Measured Power + Antenna Gain

4.5.1 Example Plots



5 Power Spectral Density

5.1 Test Result

Test Description	Test Specification		Test Result
Power Spectral Density	15.247(e)	RSS-247 S5.2 (b)	Compliant

5.2 Test Method

Power spectral density measurements were recorded using the procedures from ANSI C63.10:2020 clause 11.10 and KDB 558074 D01 15.247 Meas Guidance v05r02 .

Limit

The limit is 8 dBm.

5.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.52 °C

Relative Humidity: 48.3 %

Atmospheric Pressure: 99.12 kPa

5.4 Test Equipment

Test End Date: 26-Mar-2025

Tester: SGM

Equipment	Manufacturer	Model	Asset Number	Cal Date	Cal Due Date
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM MICROWAVE	20108	20-Mar-24	20-Apr-2025
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	3-Jan-2024	3-Jan-2025
TSTPASS SWITCHBOX	SB2	TSTPASS	23009	8-Apr-2024	8-Apr-2025

Test End Date: 15-May-2025

Tester: SGM

Equipment	Manufacturer	Model	Asset Number	Cal Date	Cal Due Date
RF CABLE SMA TO SMA, 0.01-40GHZ	TELEDYNE STORM MICROWAVE	084-0505-059	20108	3-Apr-2025	3-Apr-2026
RF CABLE SMA TO SMA, 0.01-40GHZ	TELEDYNE STORM MICROWAVE	084-0505-059	20109	3-Apr-2025	3-Apr-2026
TSTPASS SWITCHBOX	TSTPASS	SB2	23009	4-Apr-2025	4-Apr-2026
SIGNAL ANALYZER (TS8997)	ROHDE & SCHWARZ	FSV30	B085749	4-Mar-2025	4-Mar-2026

5.5 Test Data

Antenna 1

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-10.51	<=8	Pass
		2440	-10.54	<=8	Pass
		2480	-10.23	<=8	Pass
2M	SISO	2402	-14.33	<=8	Pass
		2440	-14.30	<=8	Pass
		2480	-13.39	<=8	Pass

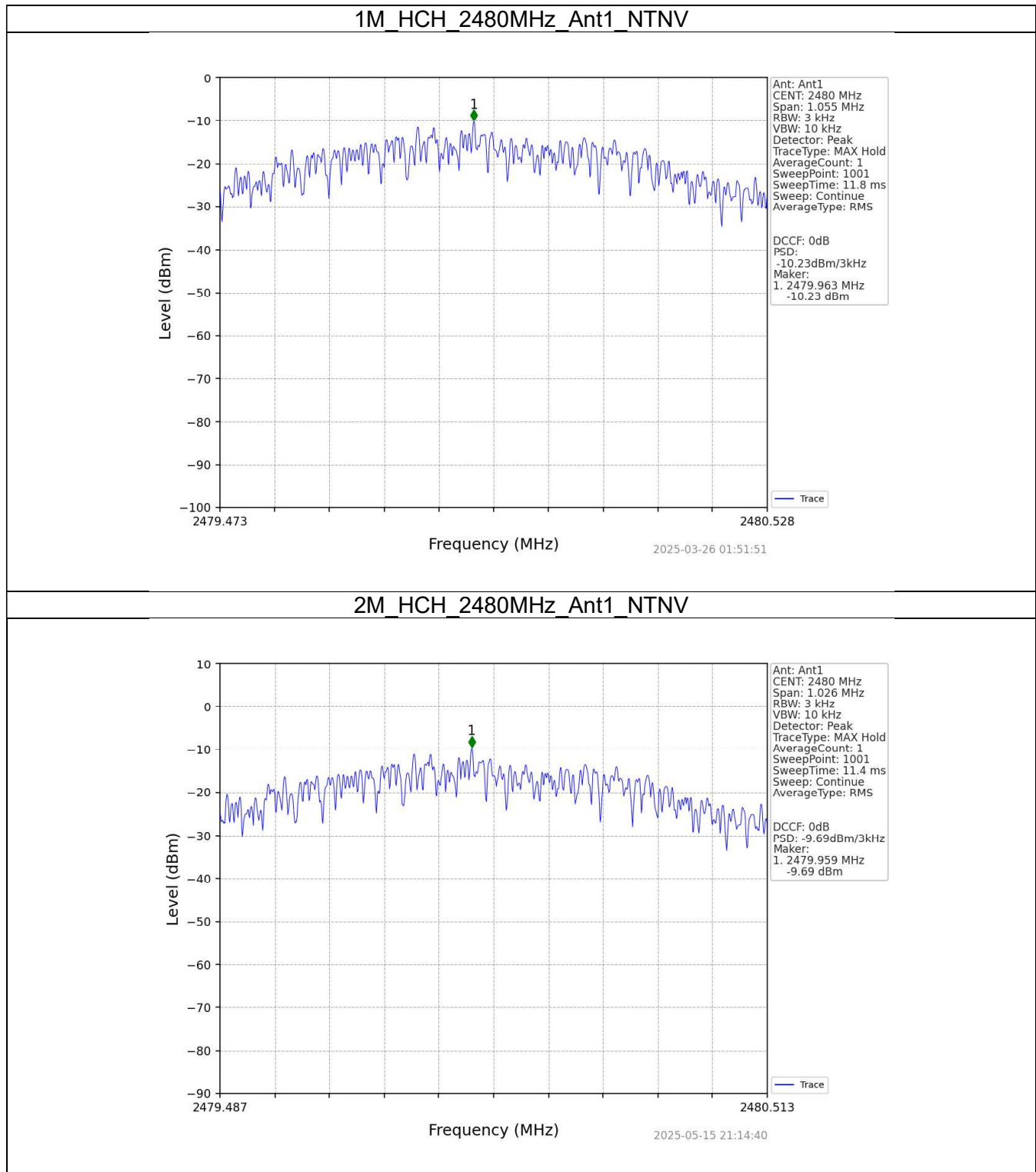
Note1: Antenna Gain: Ant1: 1.70dBi;

Antenna 2

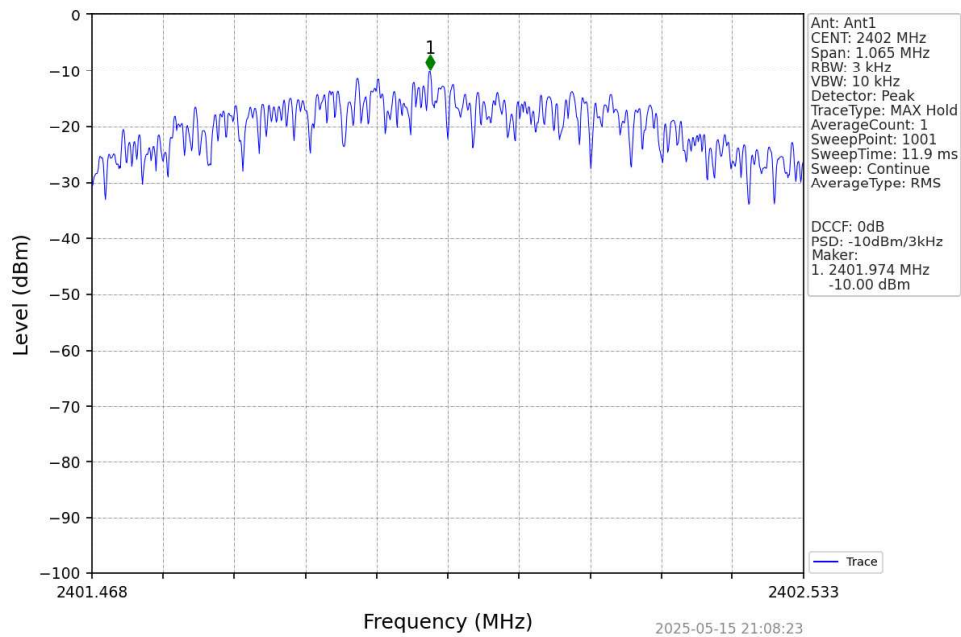
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-10.00	<=8	Pass
		2440	-9.65	<=8	Pass
		2480	-9.69	<=8	Pass
2M	SISO	2402	-13.58	<=8	Pass
		2440	-13.16	<=8	Pass
		2480	-13.27	<=8	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;

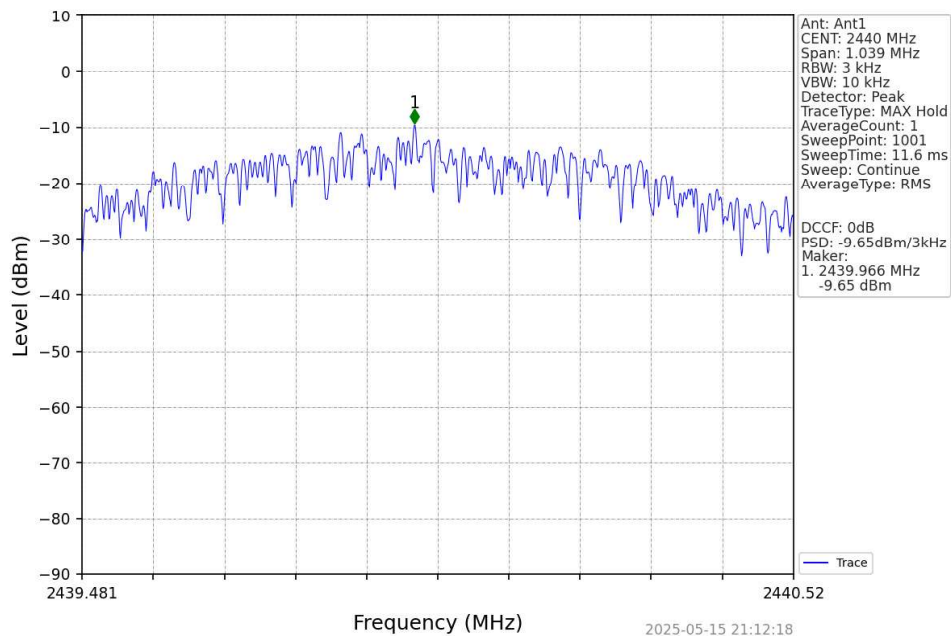
5.5.1 Example Plots



1M_LCH_2402MHz_Ant2_NTNV



2M_LCH_2440MHz_Ant2_NTNV



6 Conducted Spurious Emissions / Band Edge

6.1 Test Result

Test Description	Test Specification		Test Result
Conducted Spurious Emissions	15.247(d)	RSS-247 S5.5	Compliant

6.2 Test Method

Spurious emissions in non-restricted frequency bands were recorded using the methods defined in ANSI C63.10:2020 clause 11.11 and KDB 558074 D01 15.247 Meas Guidance v05r02 .

Lowest, middle, and highest channels were investigated.

Because the maximum conducted peak output power was used to determine compliance with the output power limits, the limit in any 100 kHz band outside of the authorized band is 20 dB below the maximum in-band peak level.

6.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.52 °C

Relative Humidity: 48.3 %

Atmospheric Pressure: 99.12 kPa

6.4 Test Equipment

Test End Date: 26-Mar-2025

Tester: SGM

Equipment	Manufacturer	Model	Asset Number	Cal Date	Cal Due Date
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM MICROWAVE	20108	20-Mar-24	20-Apr-2025
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	3-Jan-2024	3-Jan-2025
TSTPASS SWITCHBOX	SB2	TSTPASS	23009	8-Apr-2024	8-Apr-2025

Test End Date: 15-May-2025

Tester: SGM

Equipment	Manufacturer	Model	Asset Number	Cal Date	Cal Due Date
RF CABLE SMA TO SMA, 0.01-40GHZ	TELEDYNE STORM MICROWAVE	084-0505-059	20108	3-Apr-2025	3-Apr-2026
RF CABLE SMA TO SMA, 0.01-40GHZ	TELEDYNE STORM MICROWAVE	084-0505-059	20109	3-Apr-2025	3-Apr-2026
TSTPASS SWITCHBOX	TSTPASS	SB2	23009	4-Apr-2025	4-Apr-2026
SIGNAL ANALYZER (TS8997)	ROHDE & SCHWARZ	FSV30	B085749	4-Mar-2025	4-Mar-2026

6.5 Test Data – DTS Band Edge

Antenna 1

Ref

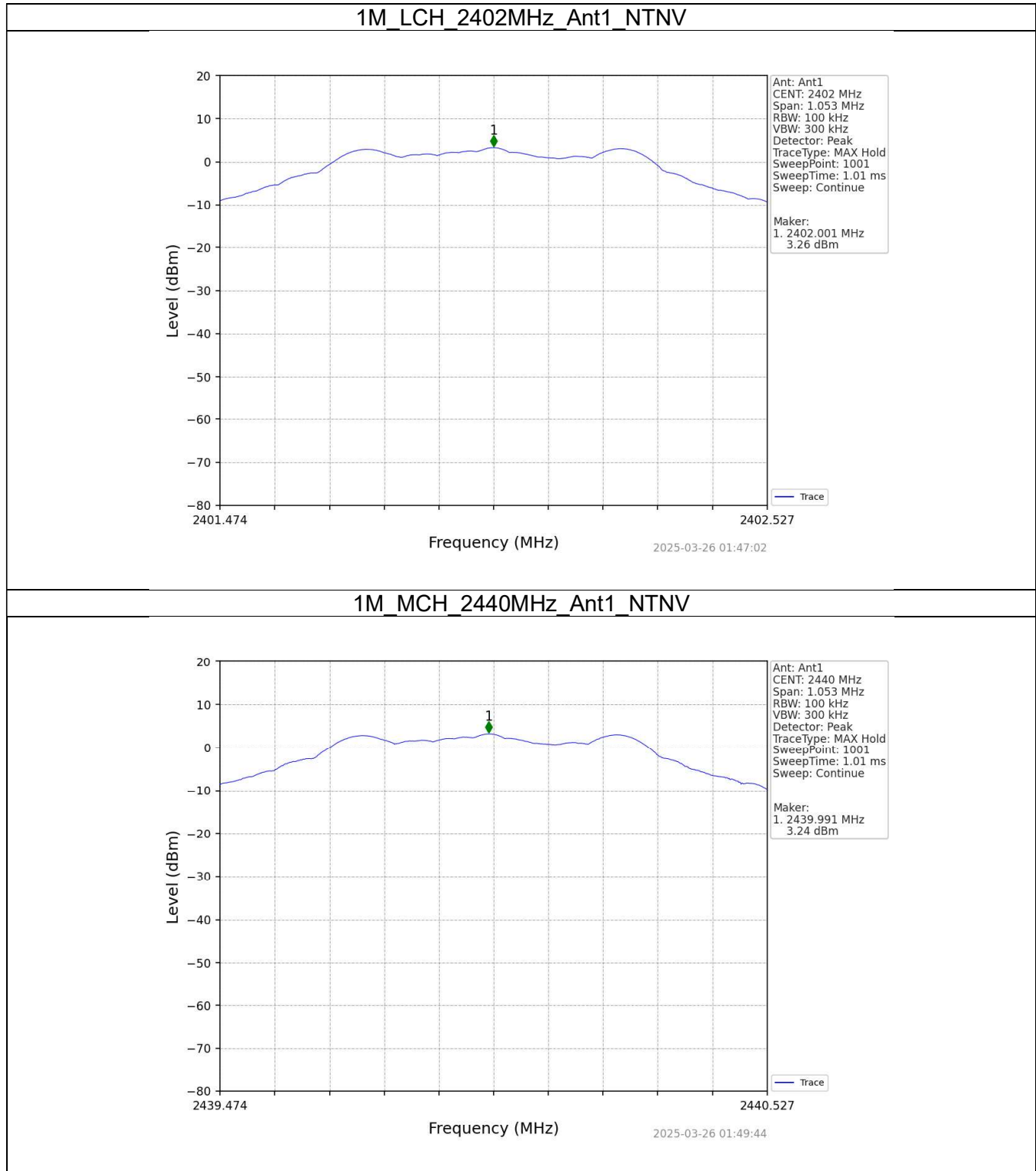
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	3.26
		2440	1	3.24
		2480	1	3.52
2M	SISO	2402	1	2.17
		2440	1	2.17
		2480	1	3.04
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

CSE

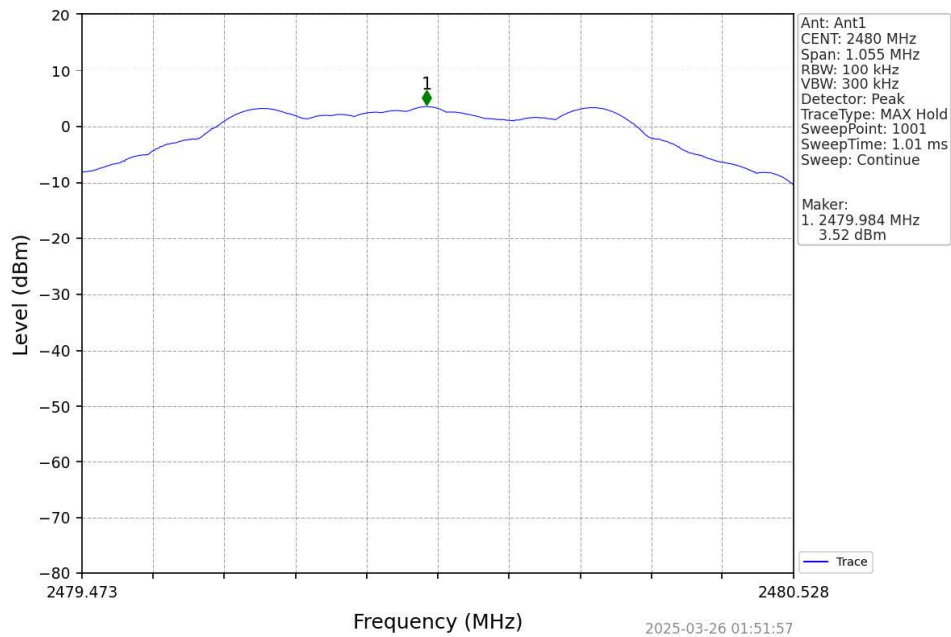
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	3.52	-16.48	Pass
		2440	1	3.52	-16.48	Pass
		2480	1	3.52	-16.48	Pass
2M	SISO	2402	1	3.04	-16.96	Pass
		2440	1	3.04	-16.96	Pass
		2480	1	3.04	-16.96	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

Test Graph

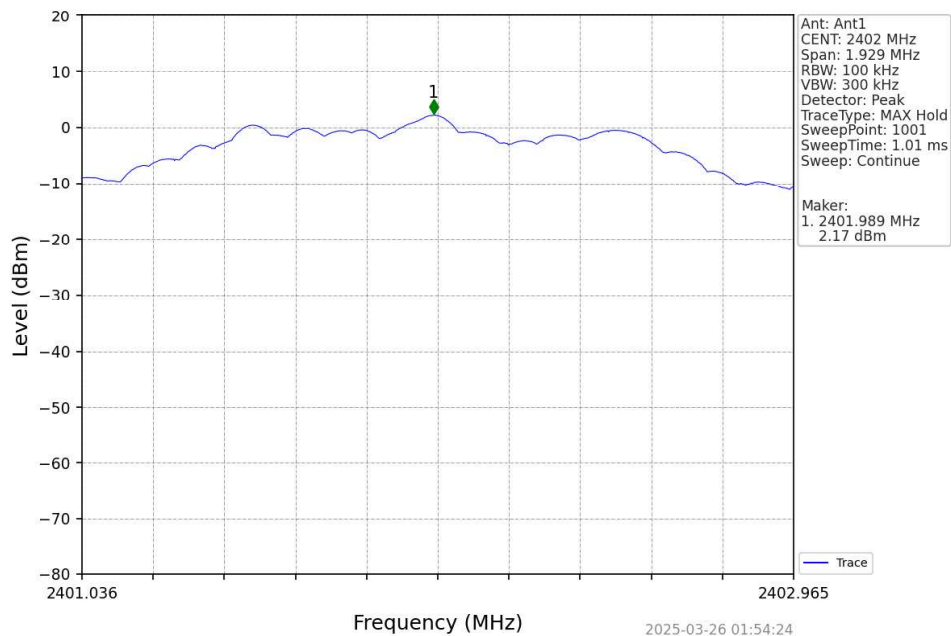
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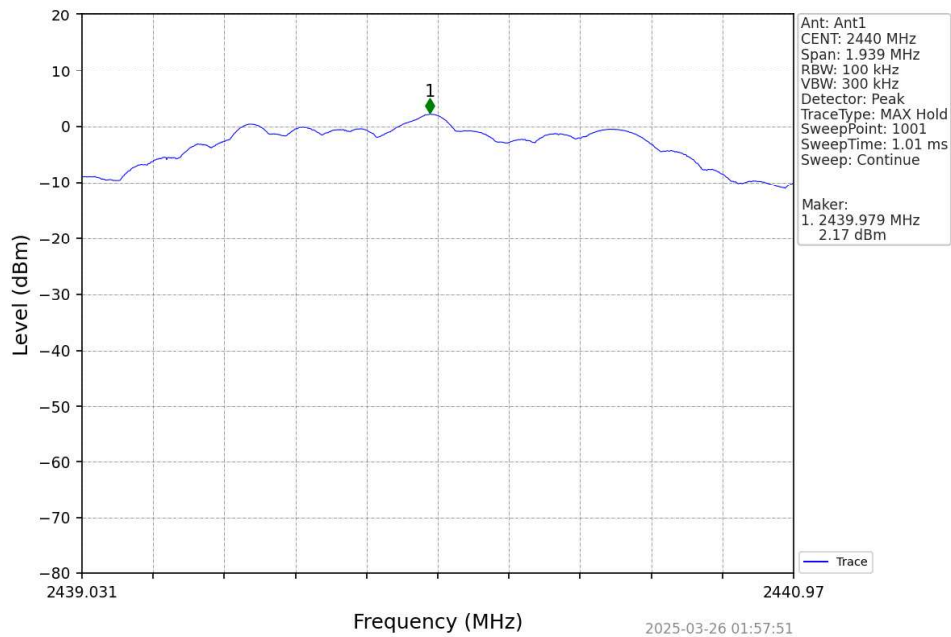
1M_HCH_2480MHz_Ant1_NTNV



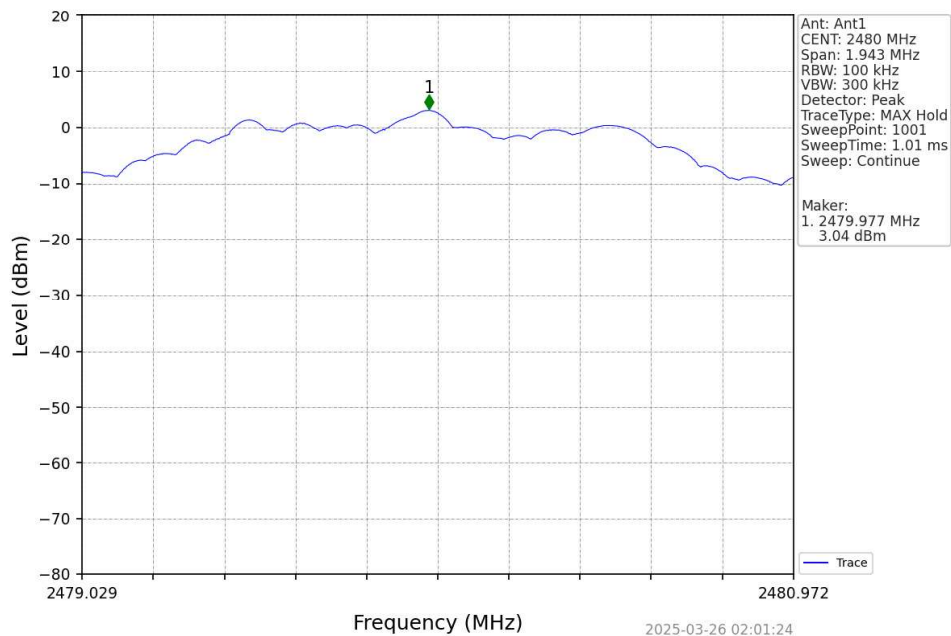
2M_LCH_2402MHz_Ant1_NTNV



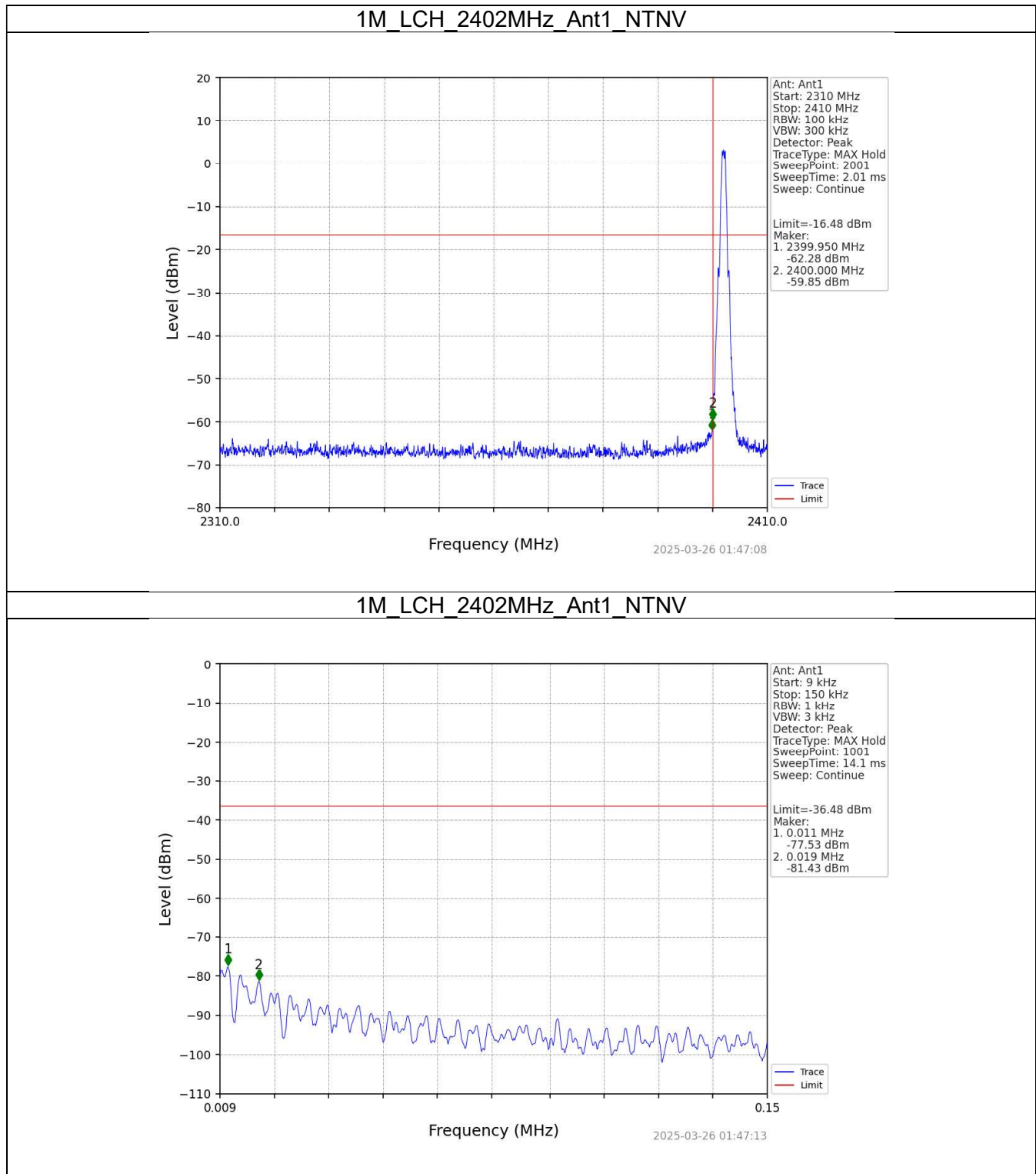
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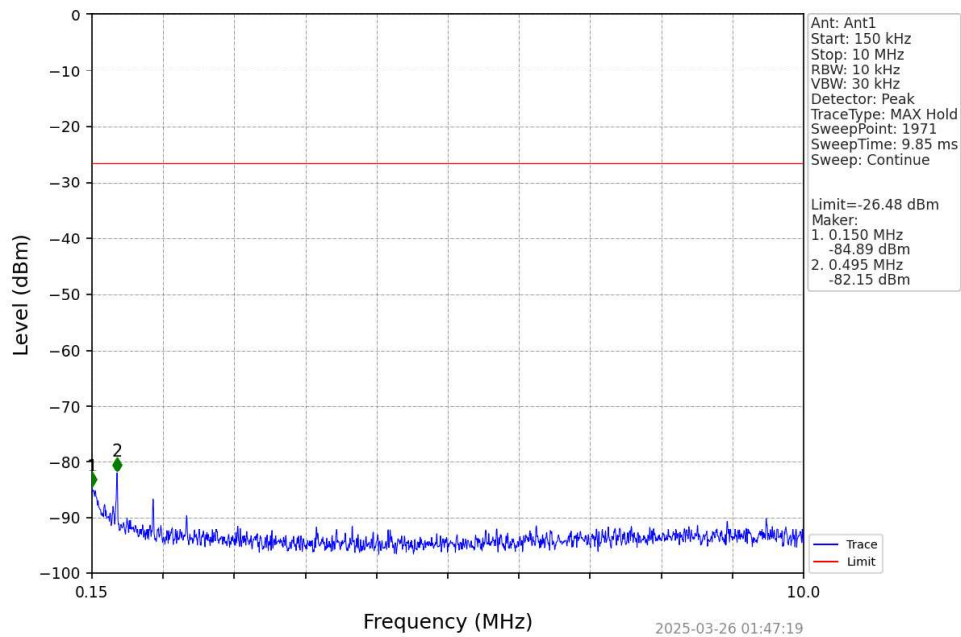
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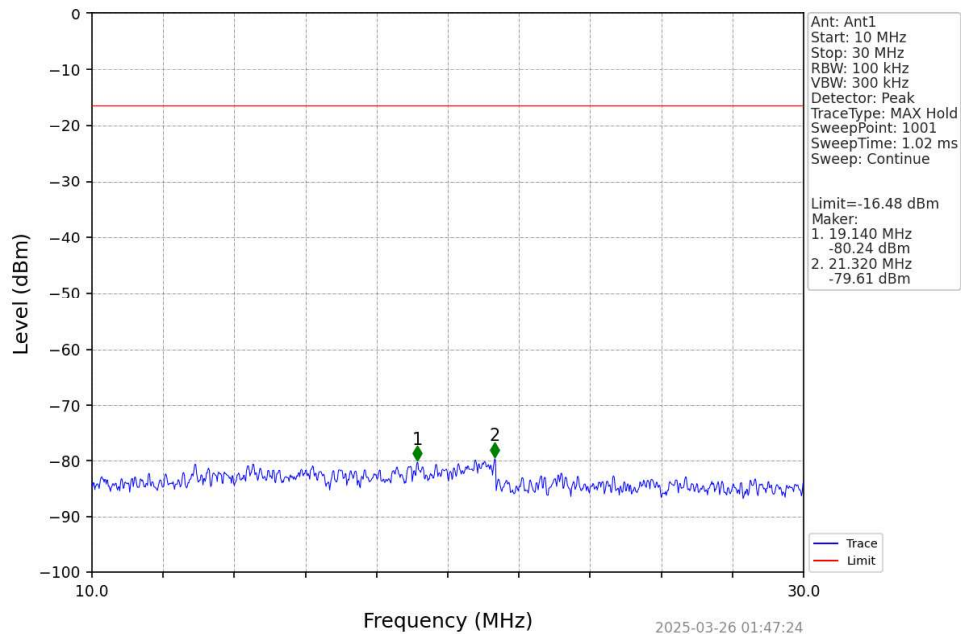
CSE



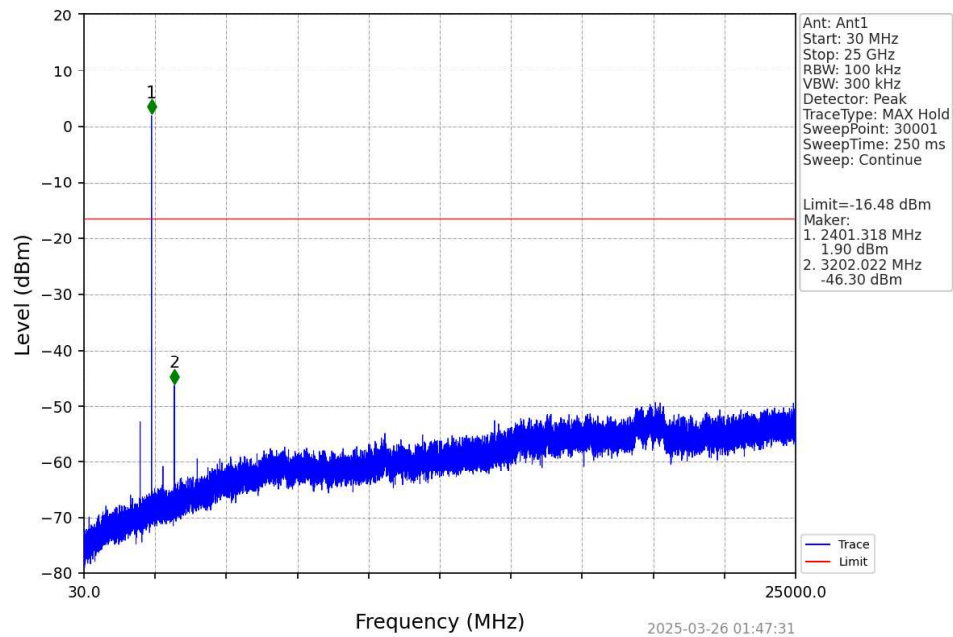
1M_LCH_2402MHz_Ant1_NTNV



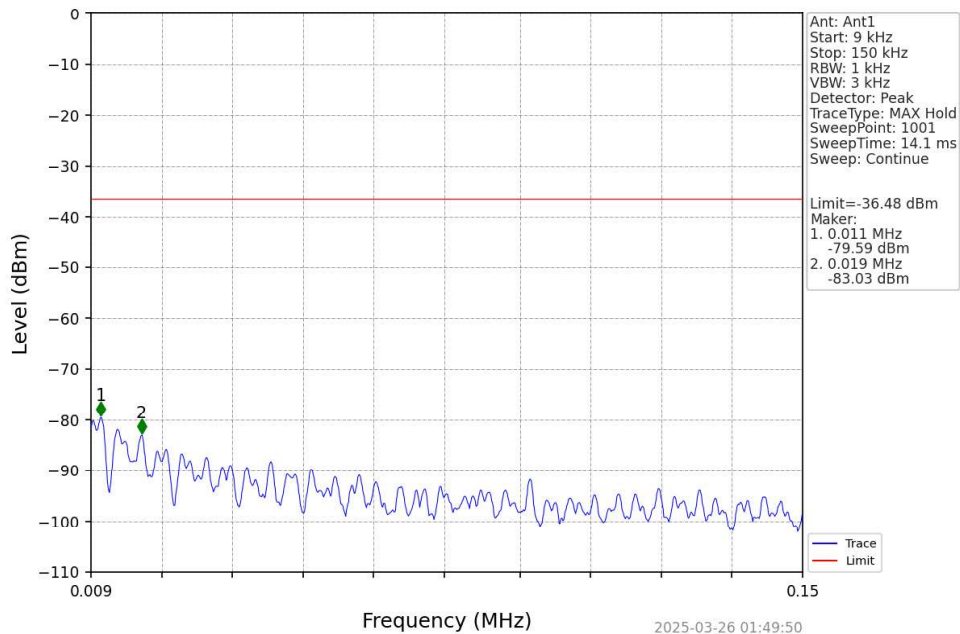
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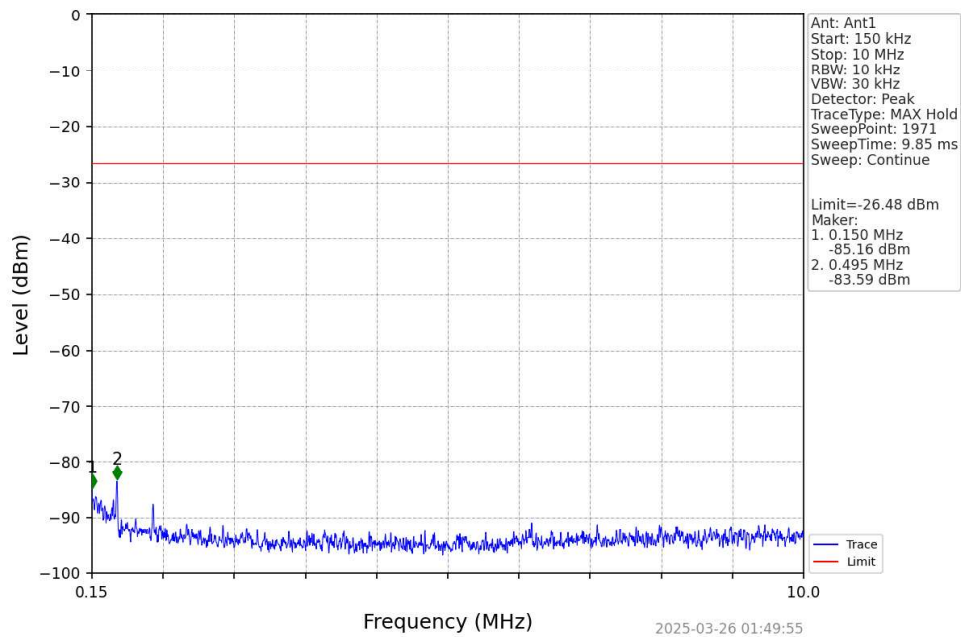
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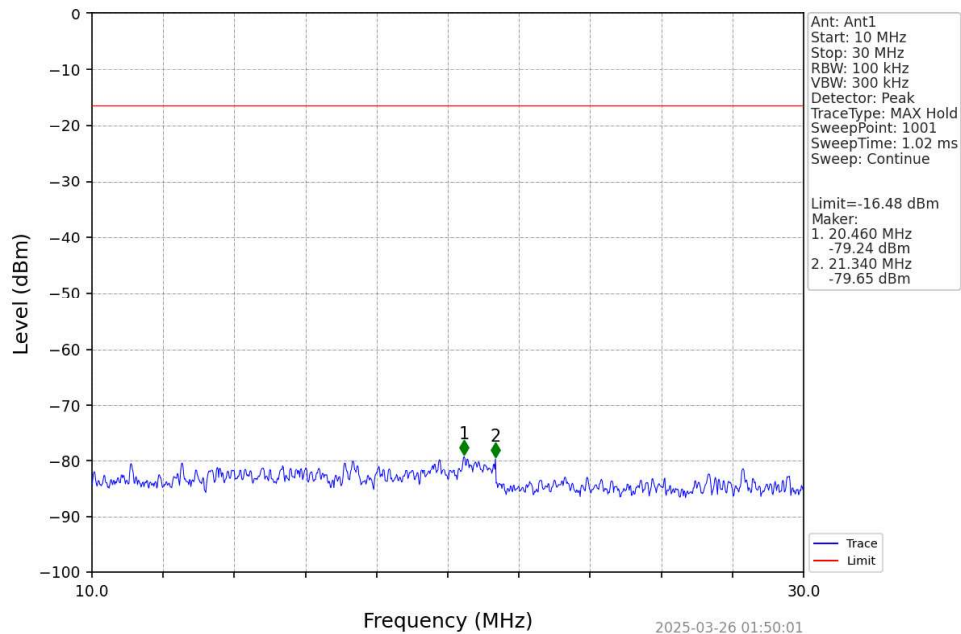
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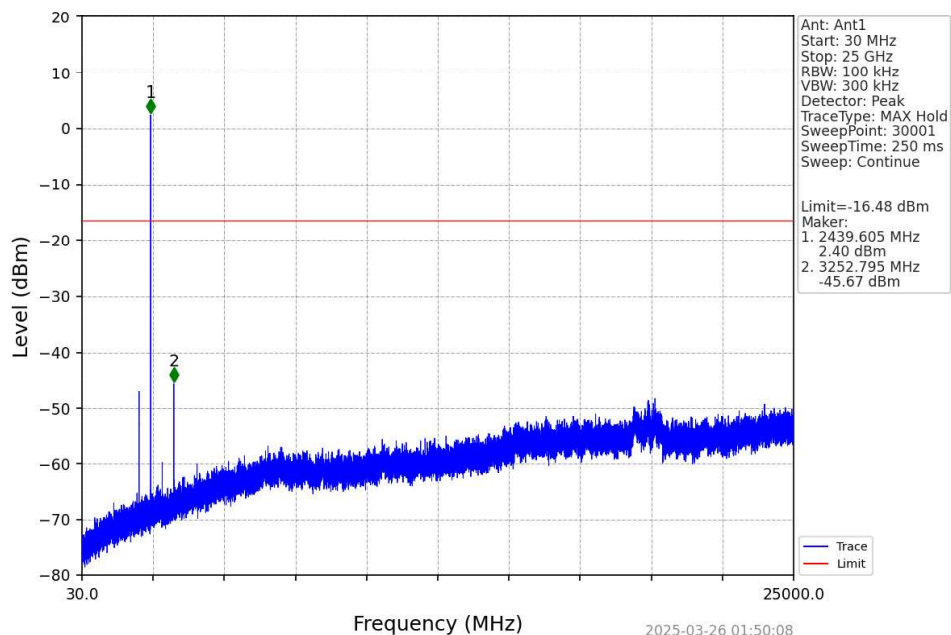
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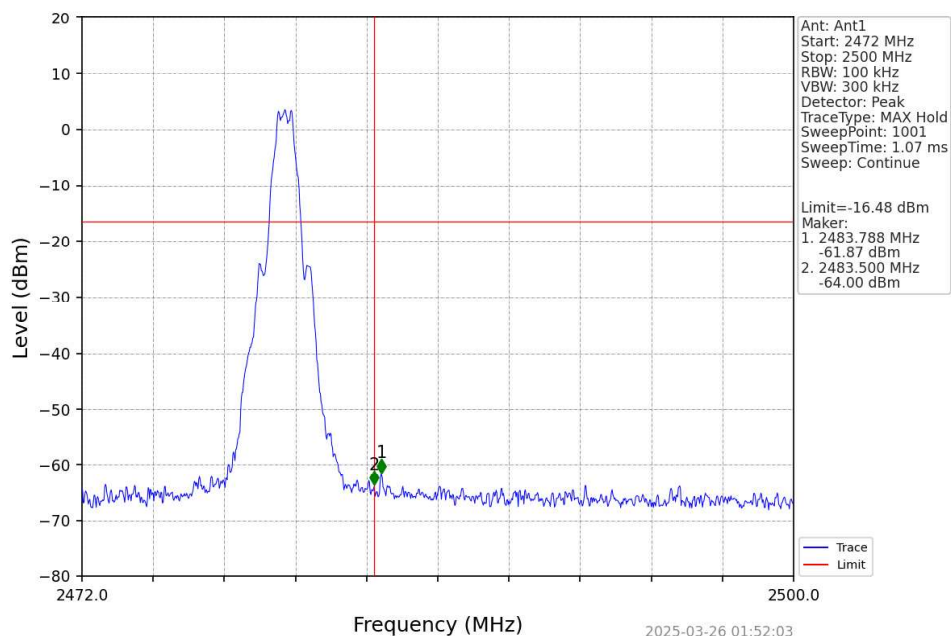
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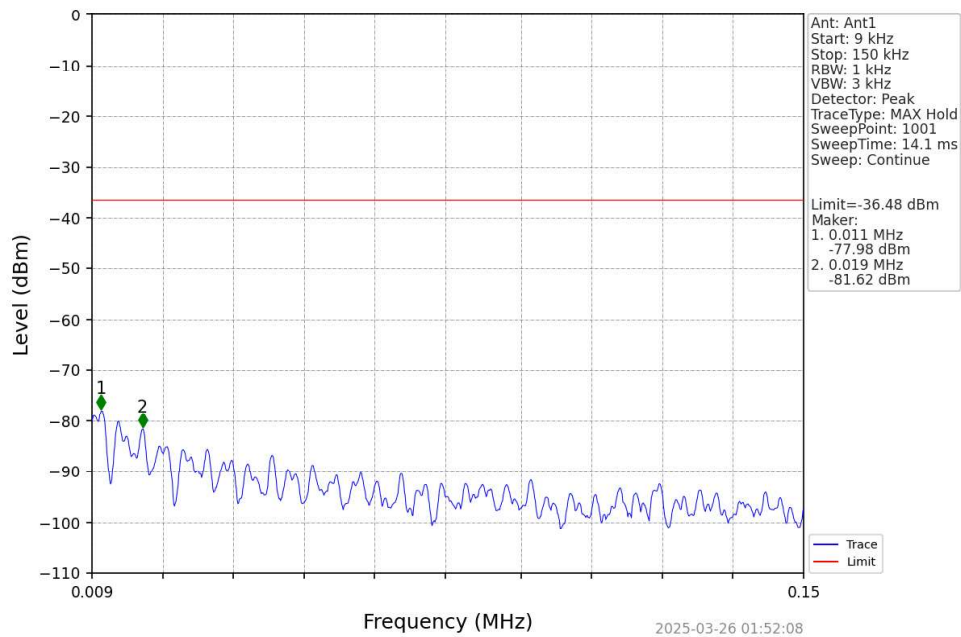
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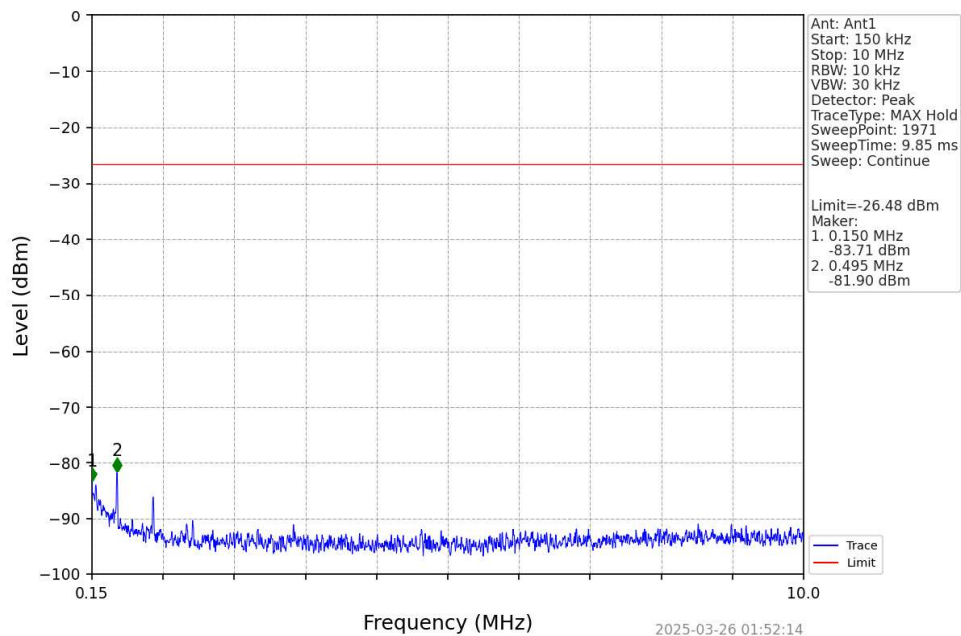
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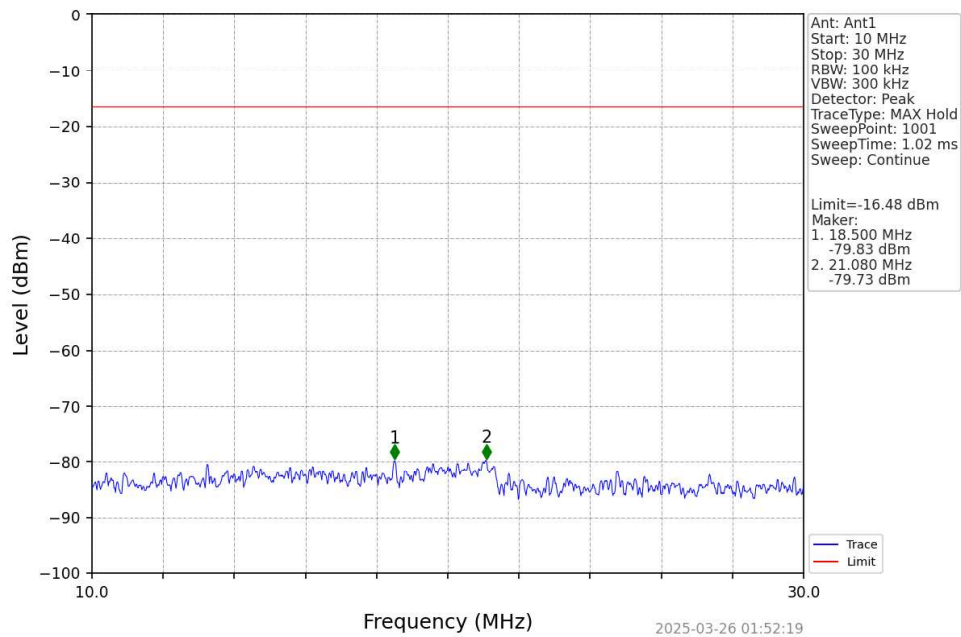
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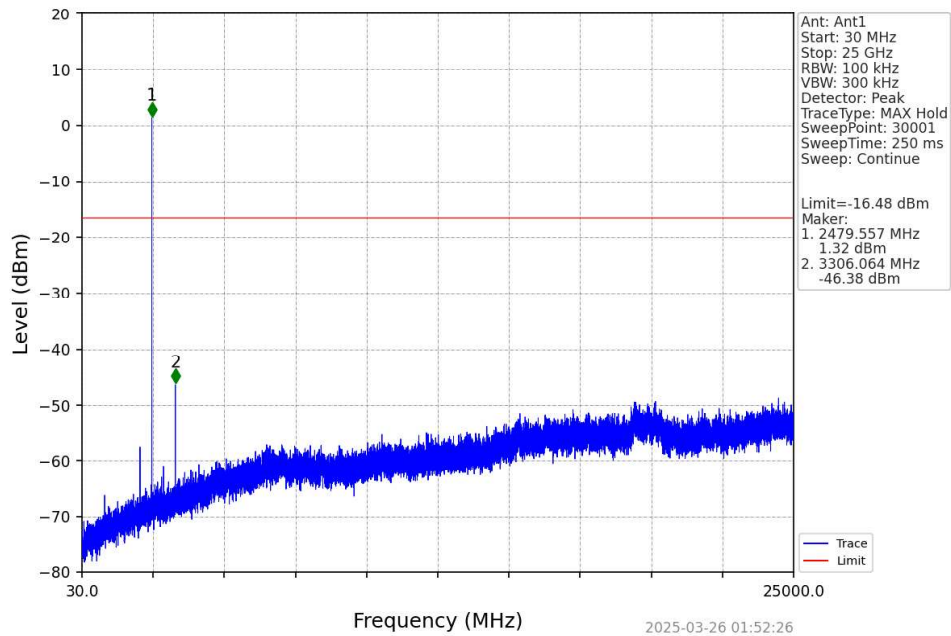
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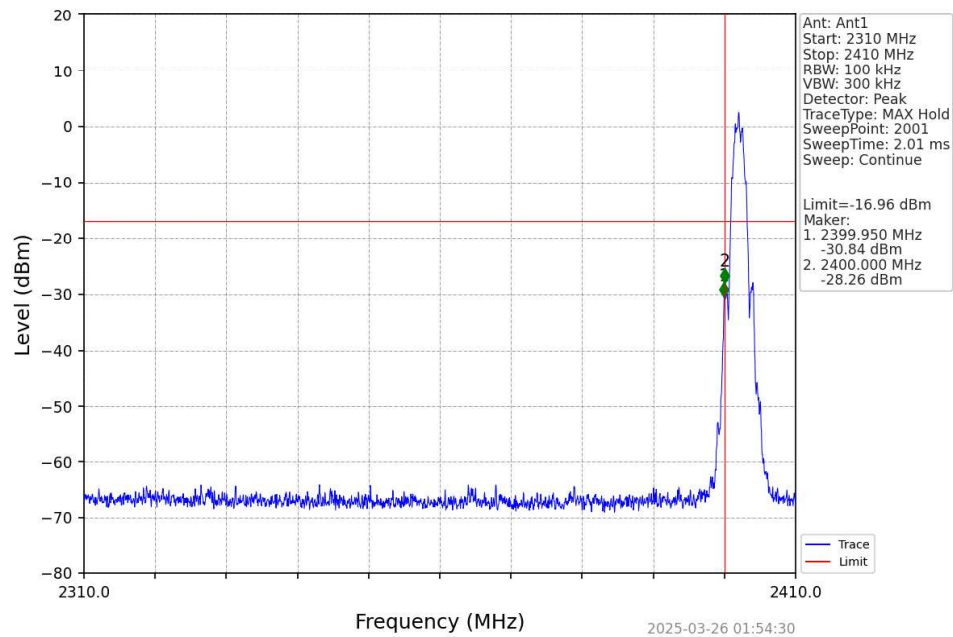
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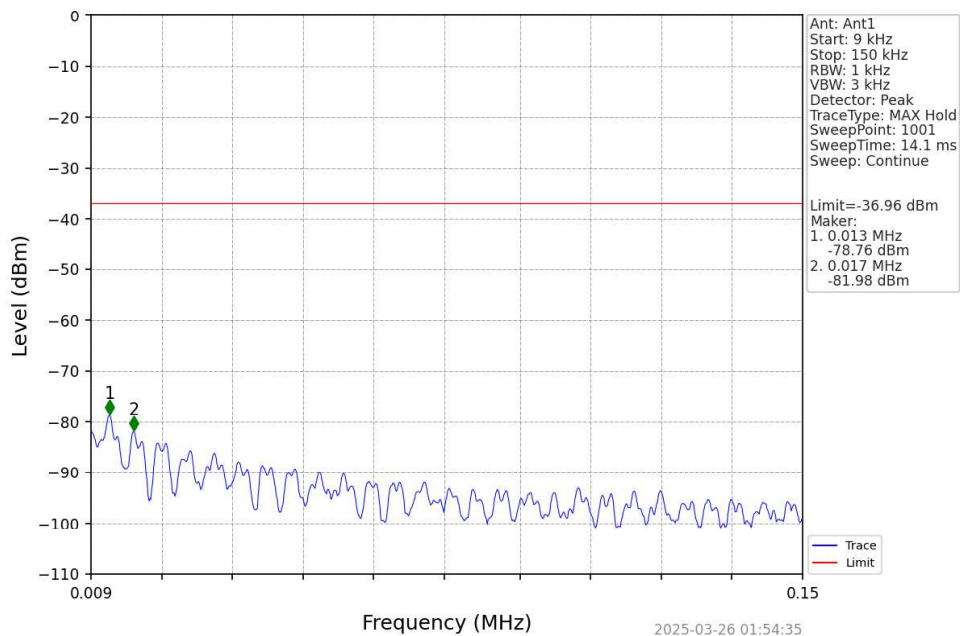
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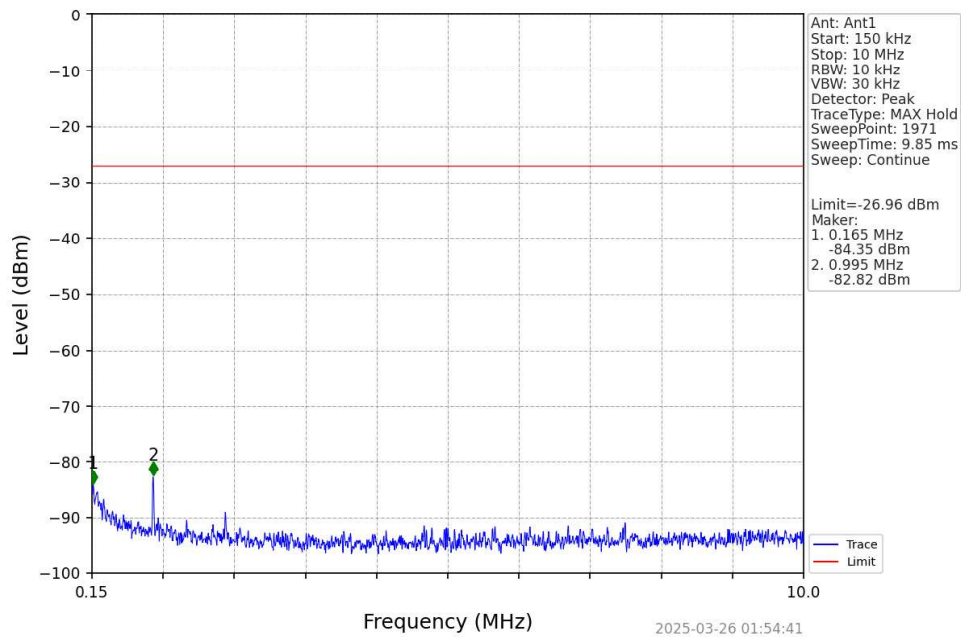
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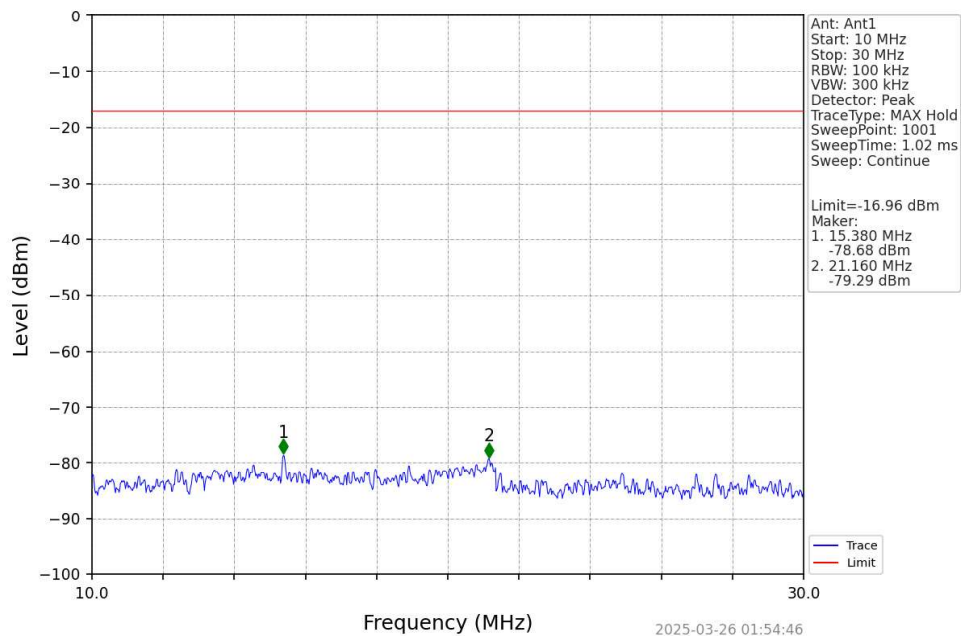
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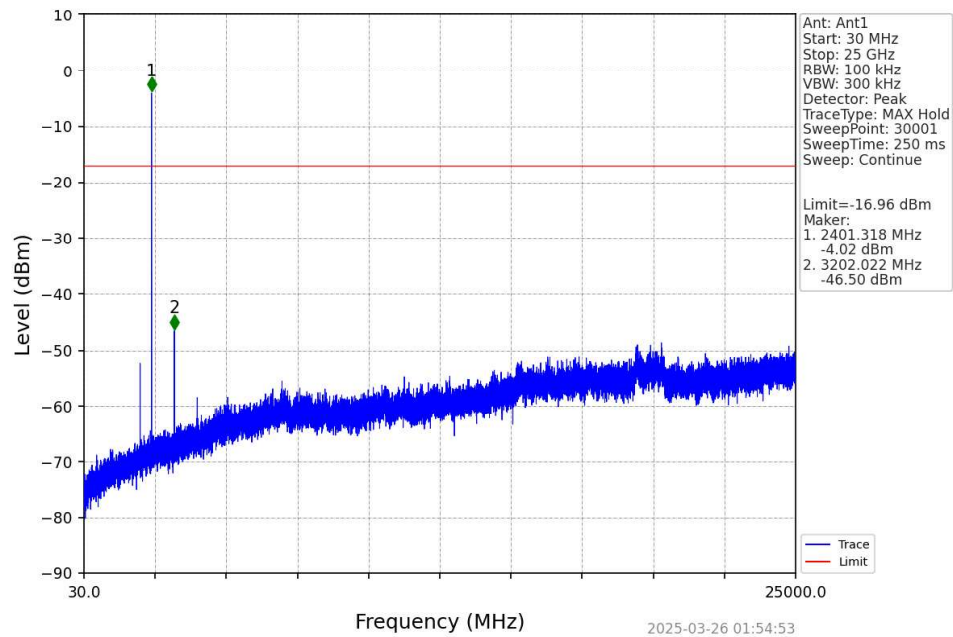
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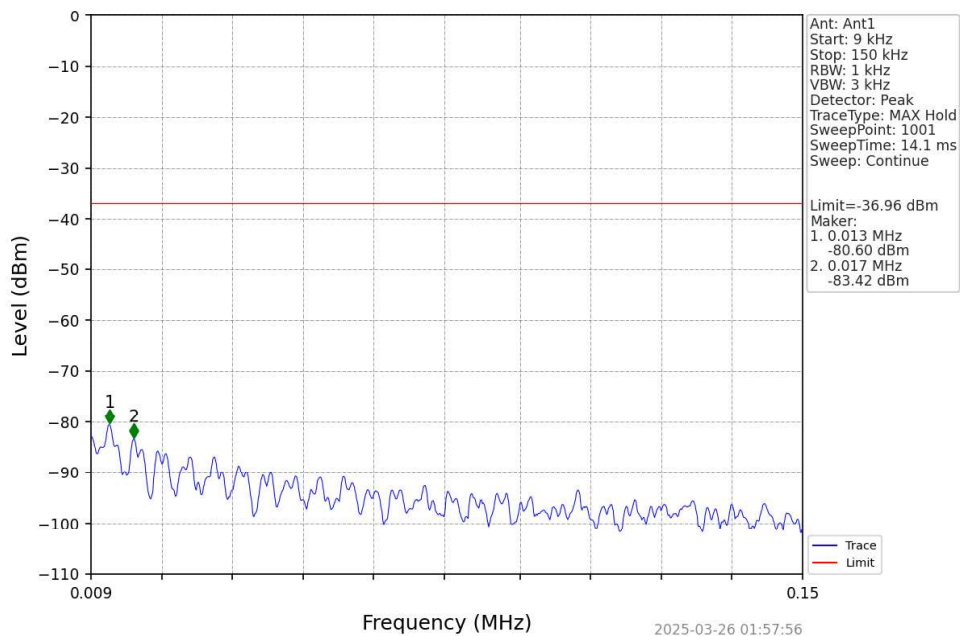
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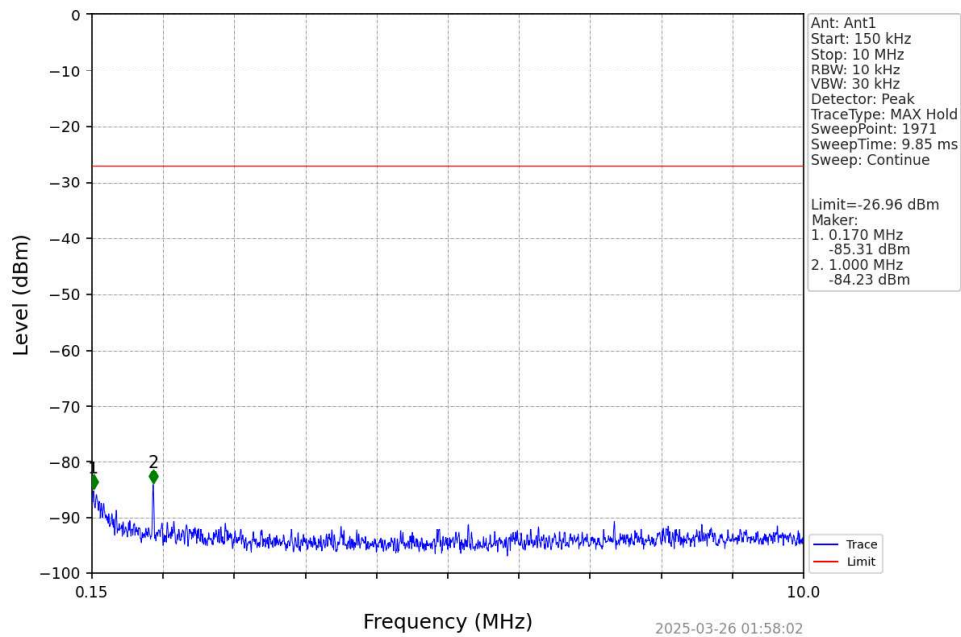
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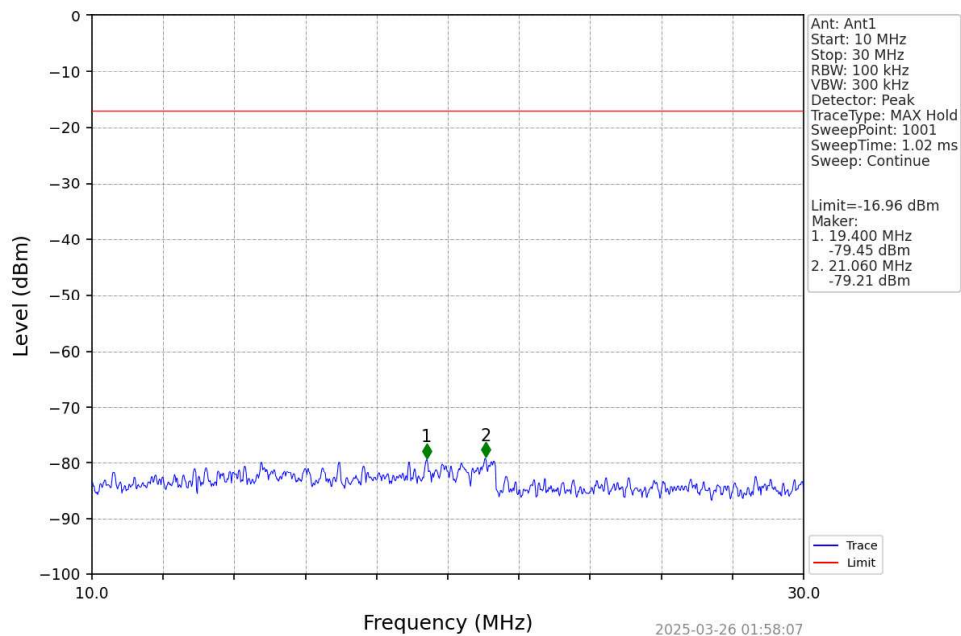
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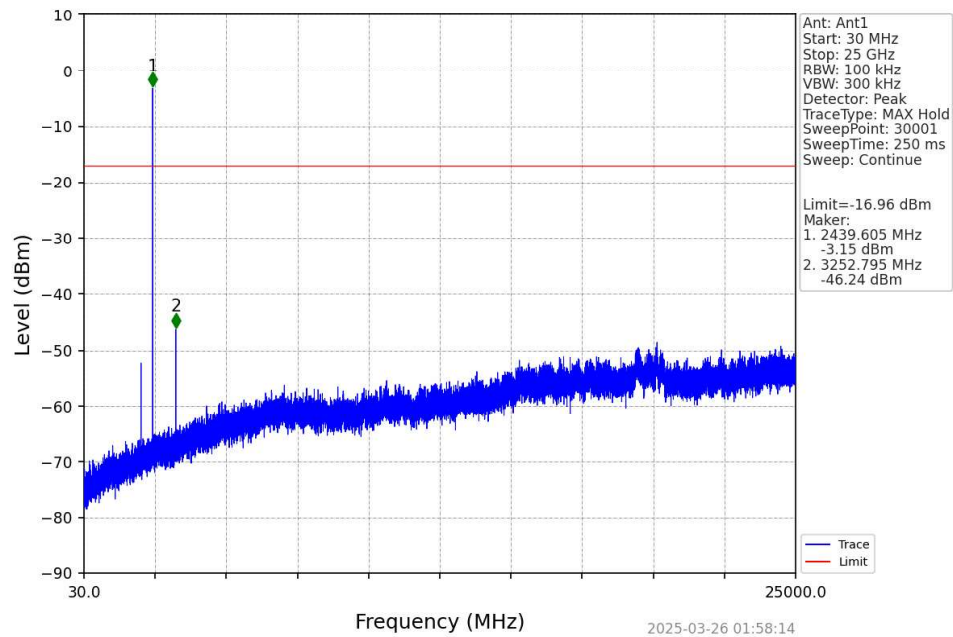
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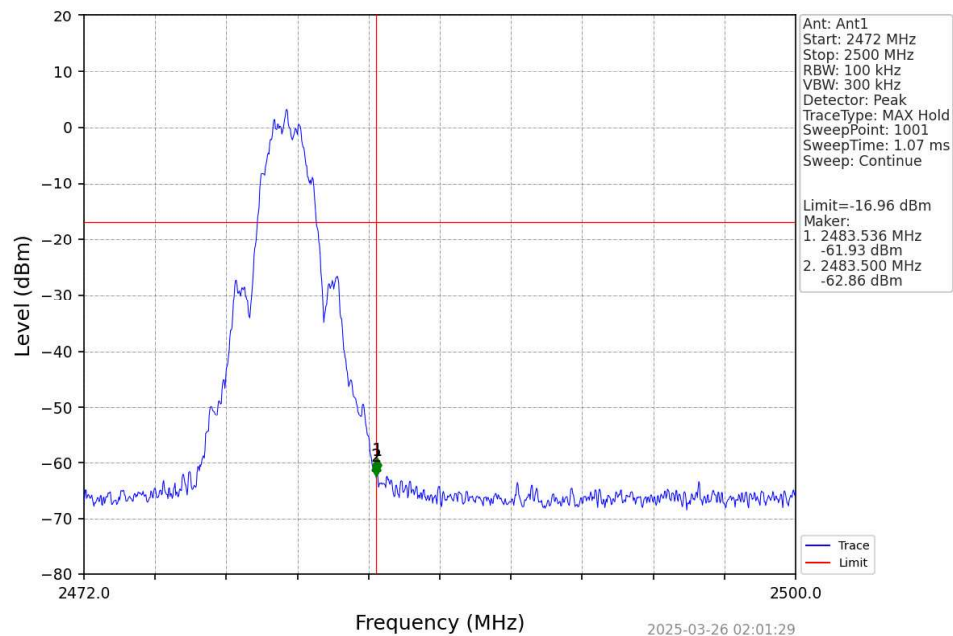
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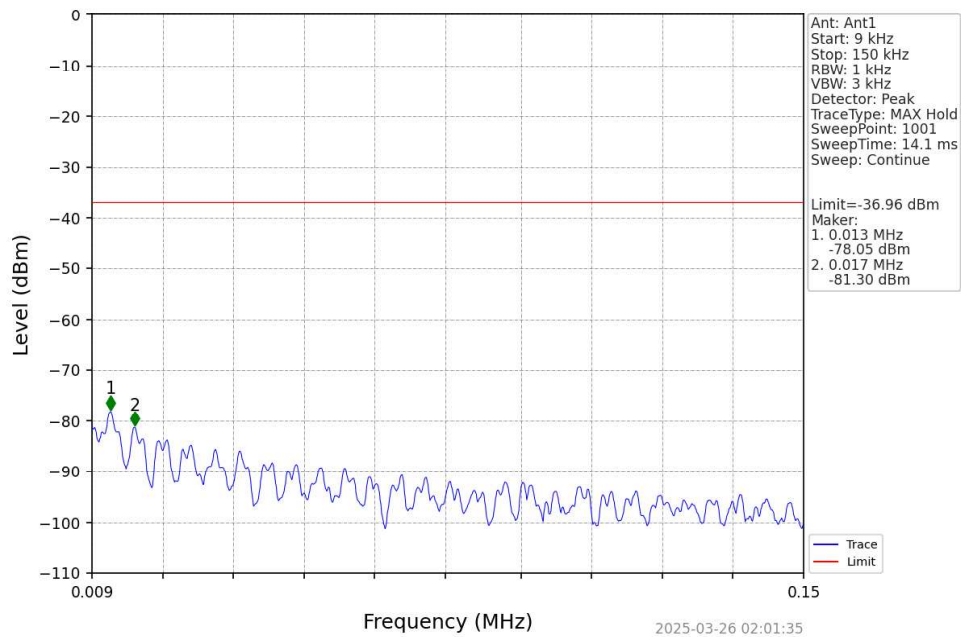
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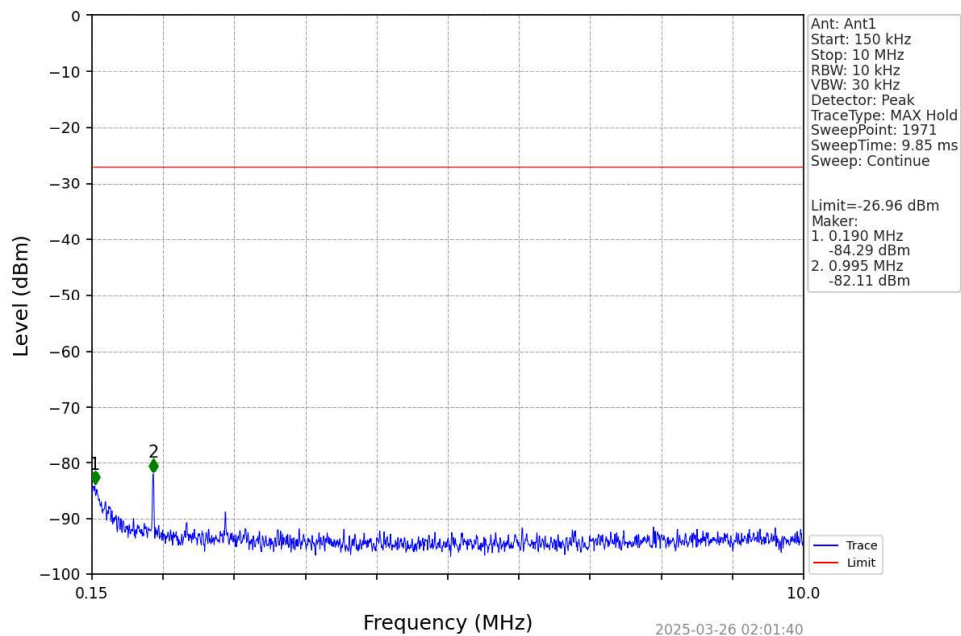
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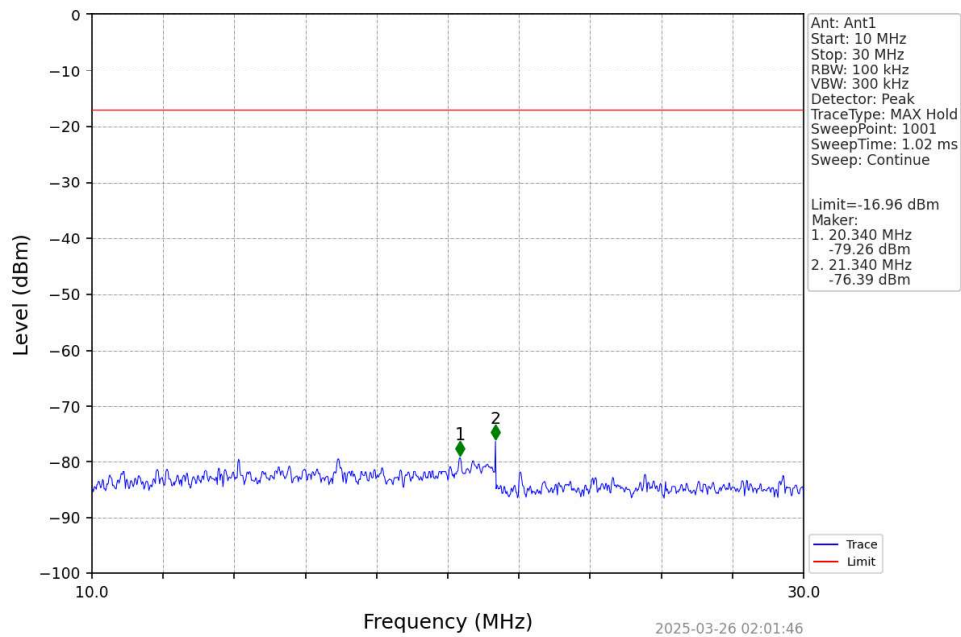
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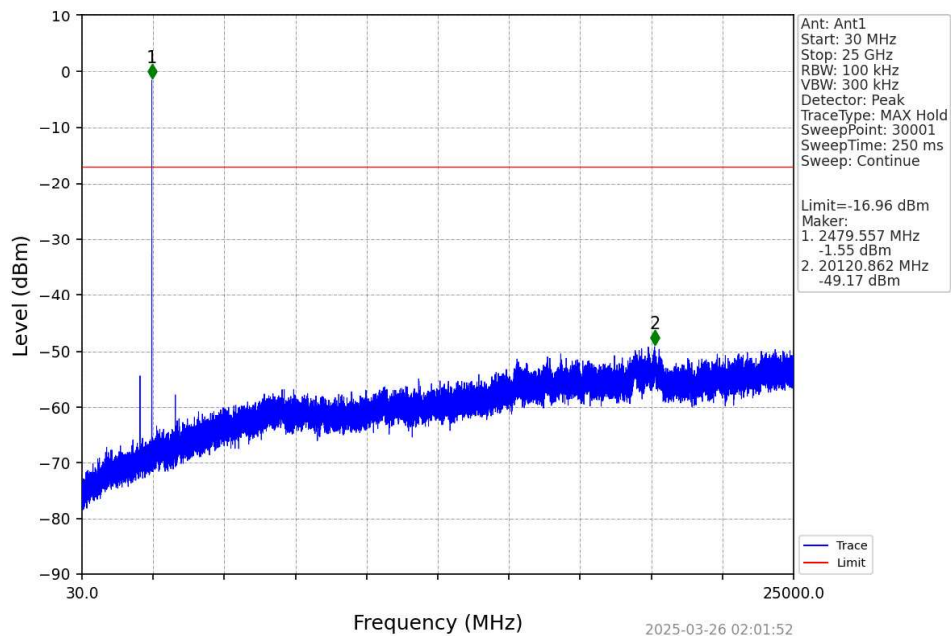
2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



Antenna 2

Ref

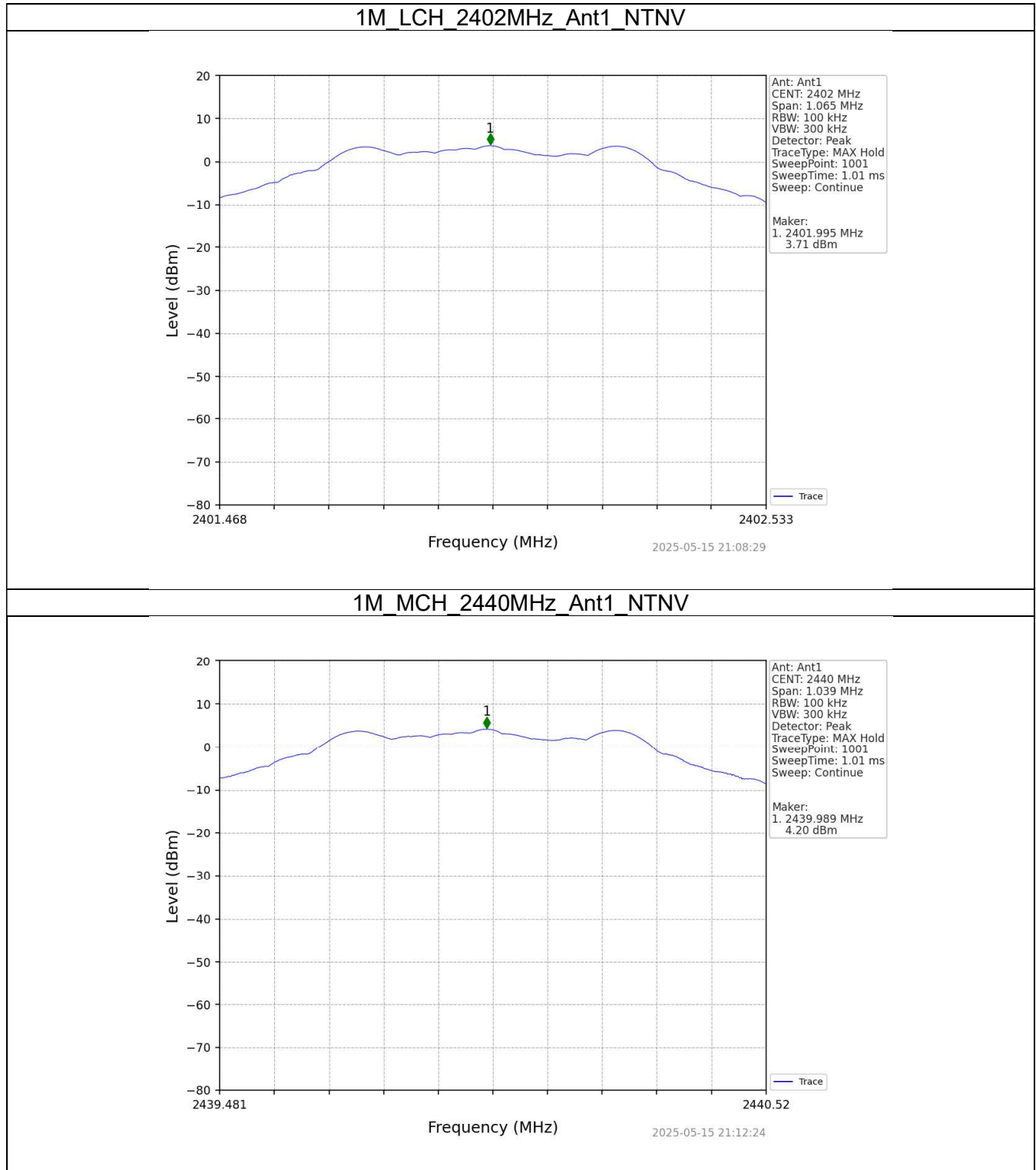
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	3.71
		2440	1	4.20
		2480	1	4.18
2M	SISO	2402	1	2.78
		2440	1	3.26
		2480	1	3.26
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

CSE

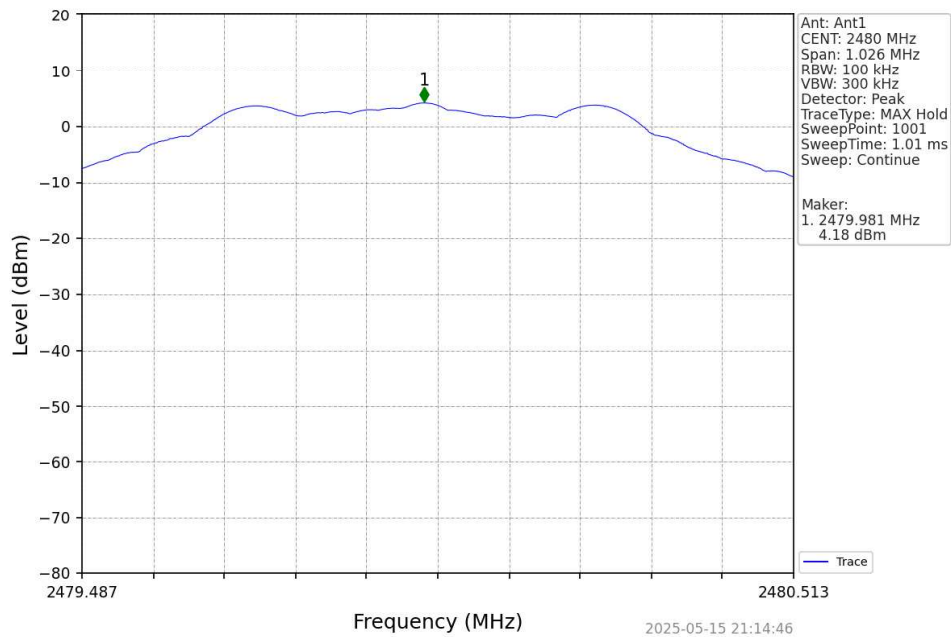
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.20	-15.80	Pass
		2440	1	4.20	-15.80	Pass
		2480	1	4.20	-15.80	Pass
2M	SISO	2402	1	3.26	-16.74	Pass
		2440	1	3.26	-16.74	Pass
		2480	1	3.26	-16.74	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

Test Graph

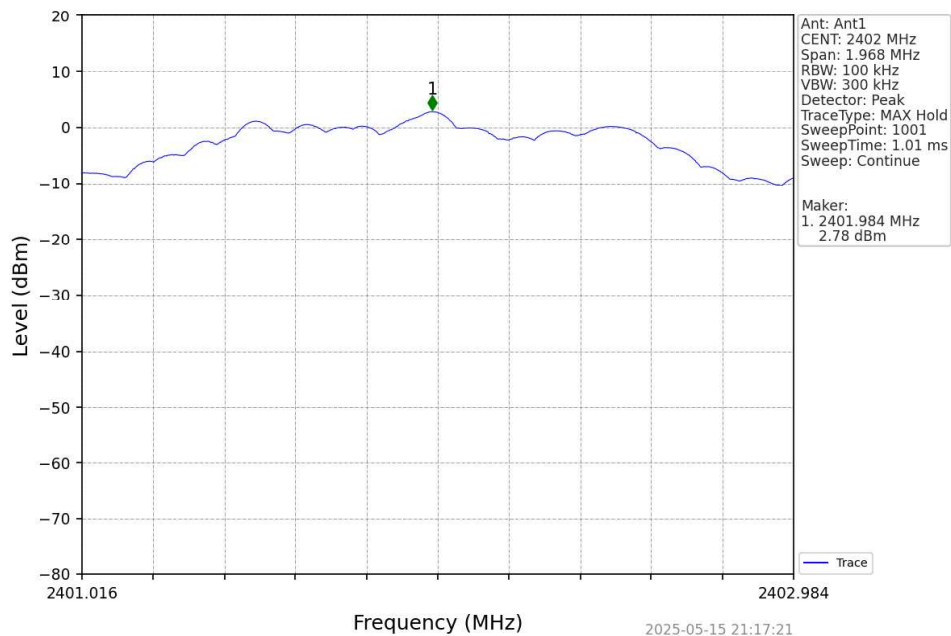
Ref



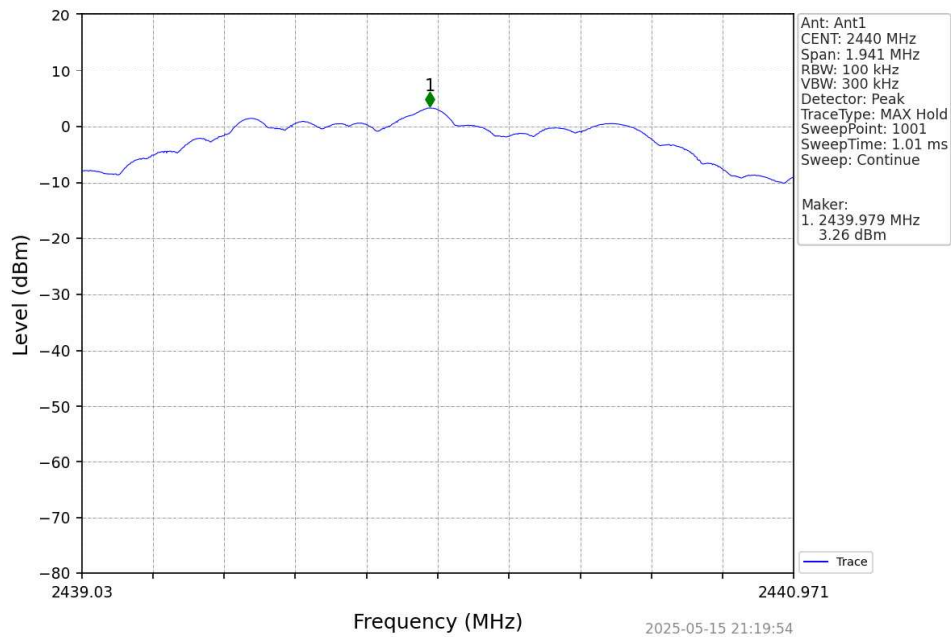
1M_HCH_2480MHz_Ant1_NTNV



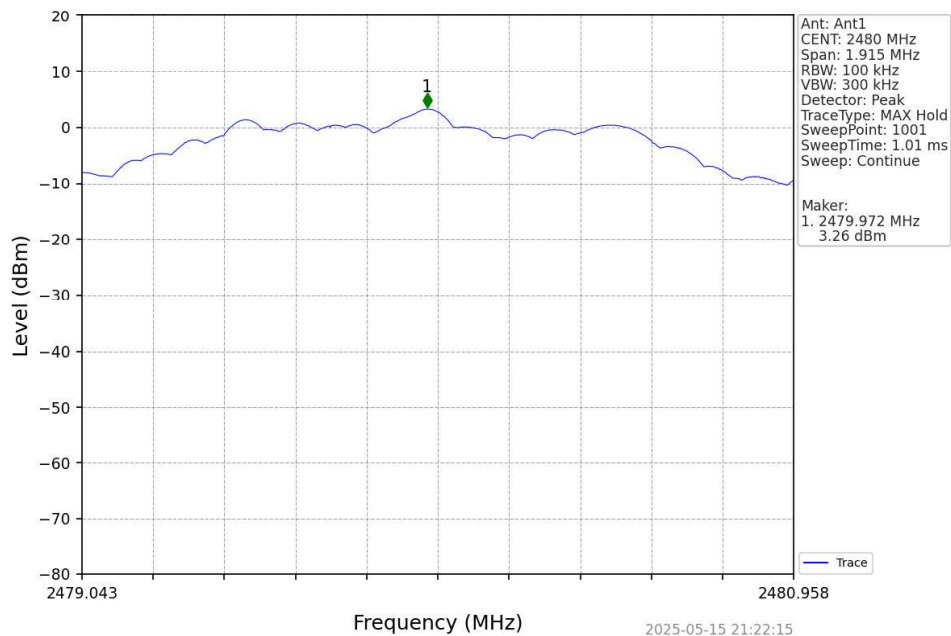
2M_LCH_2402MHz_Ant1_NTNV



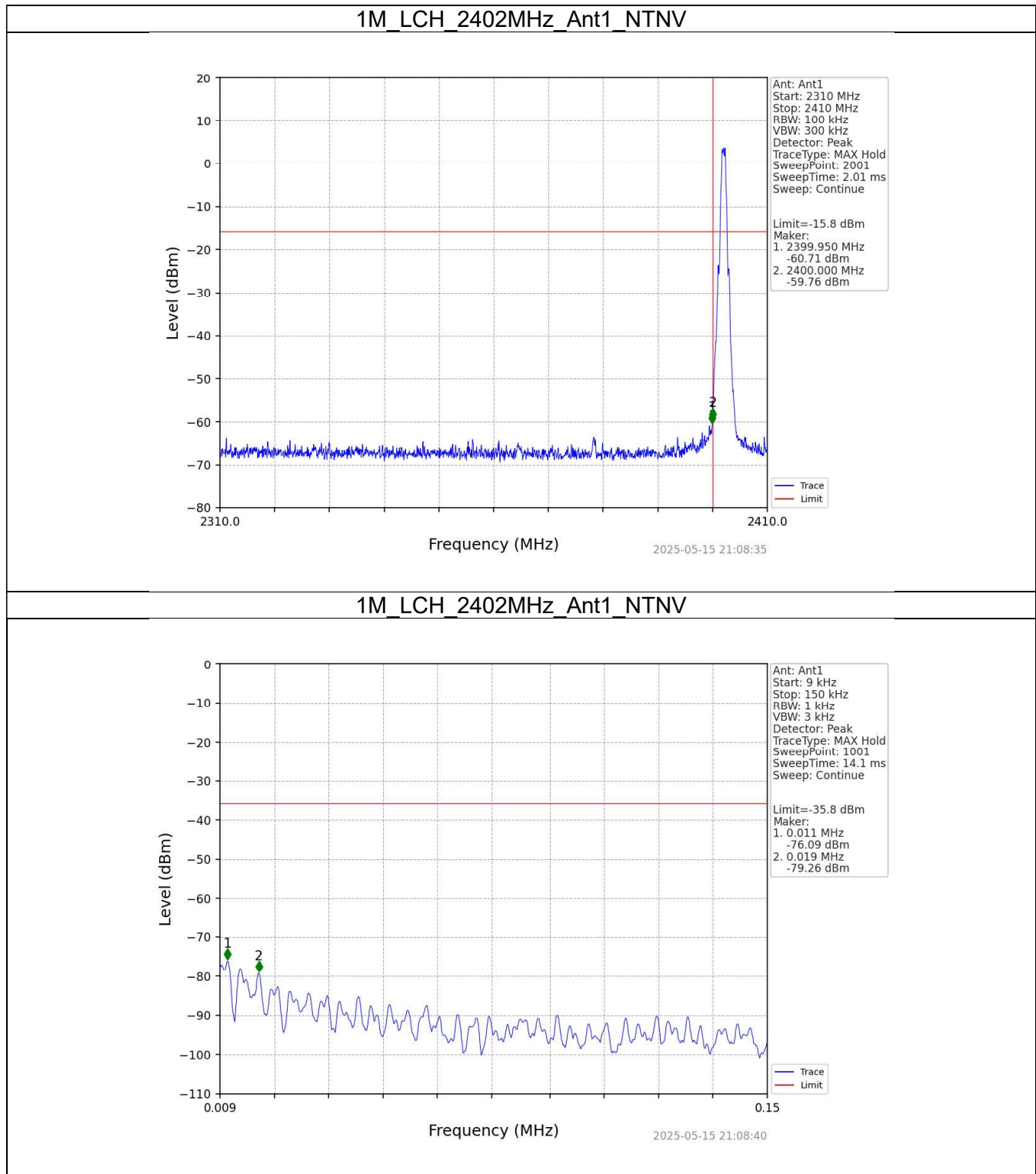
2M_MCH_2440MHz_Ant1_NTNV



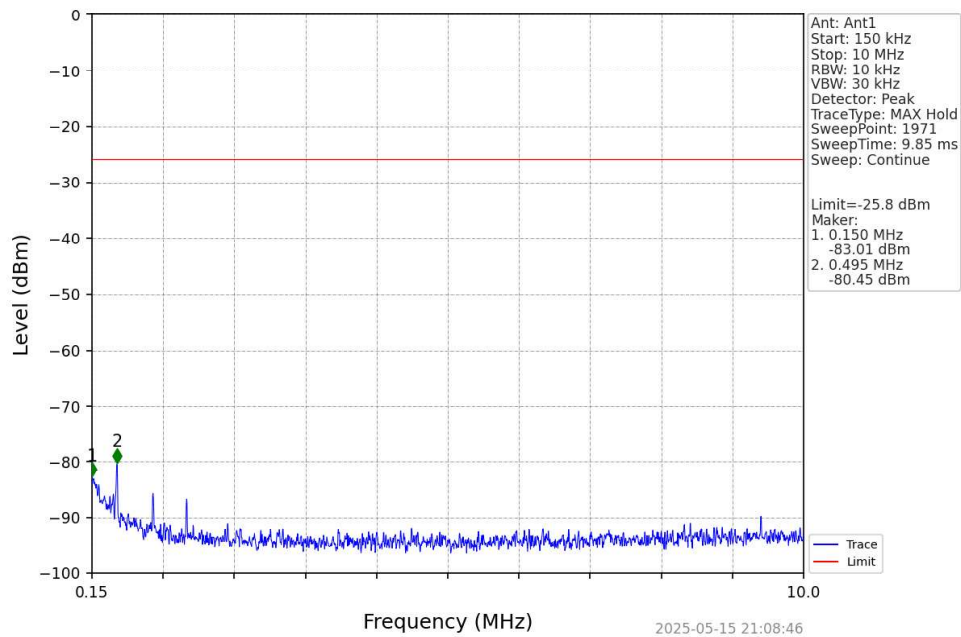
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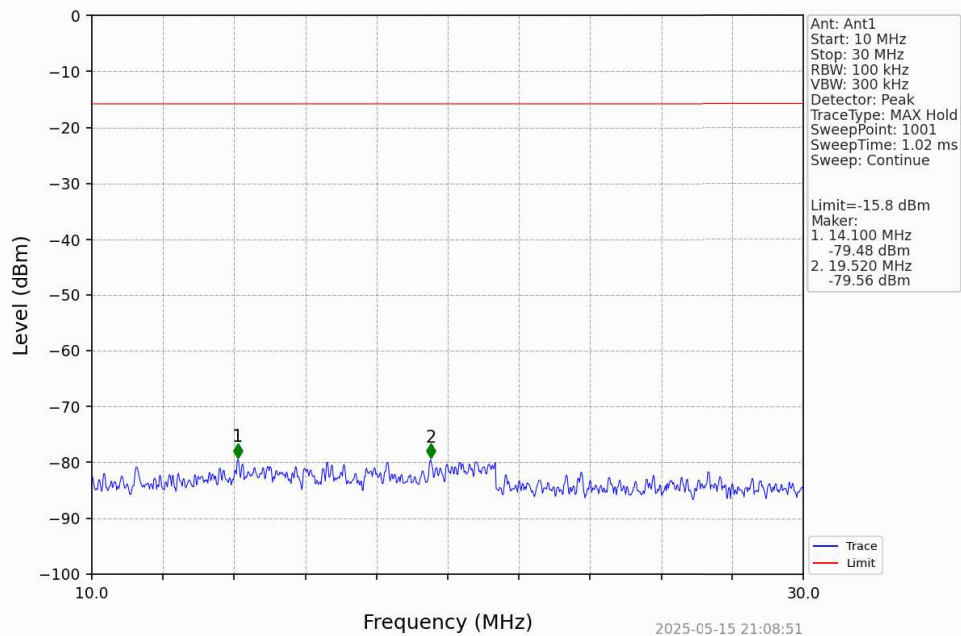
CSE



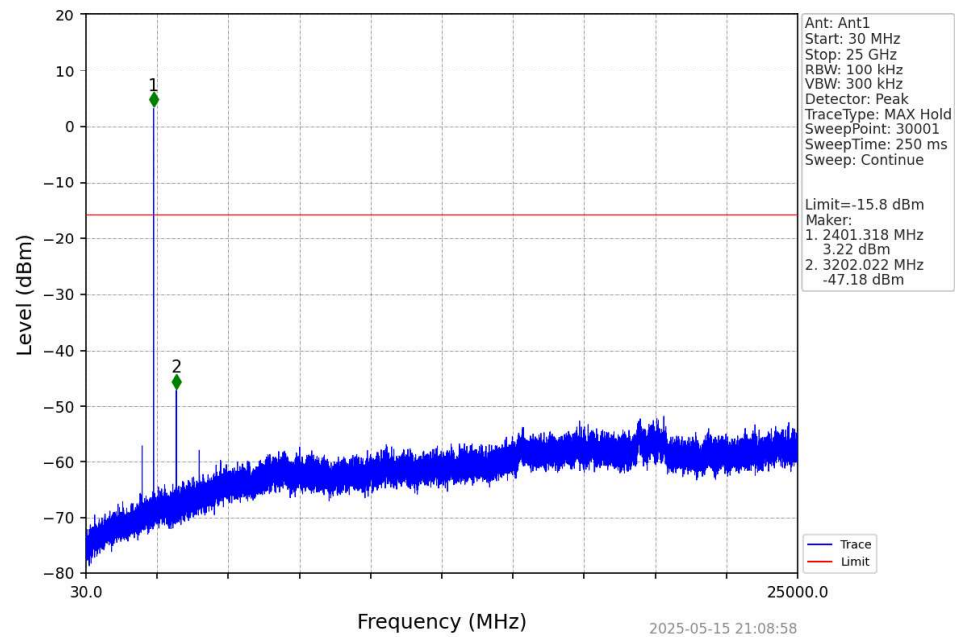
1M_LCH_2402MHz_Ant1_NTNV



1M_LCH_2402MHz_Ant1_NTNV



1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

