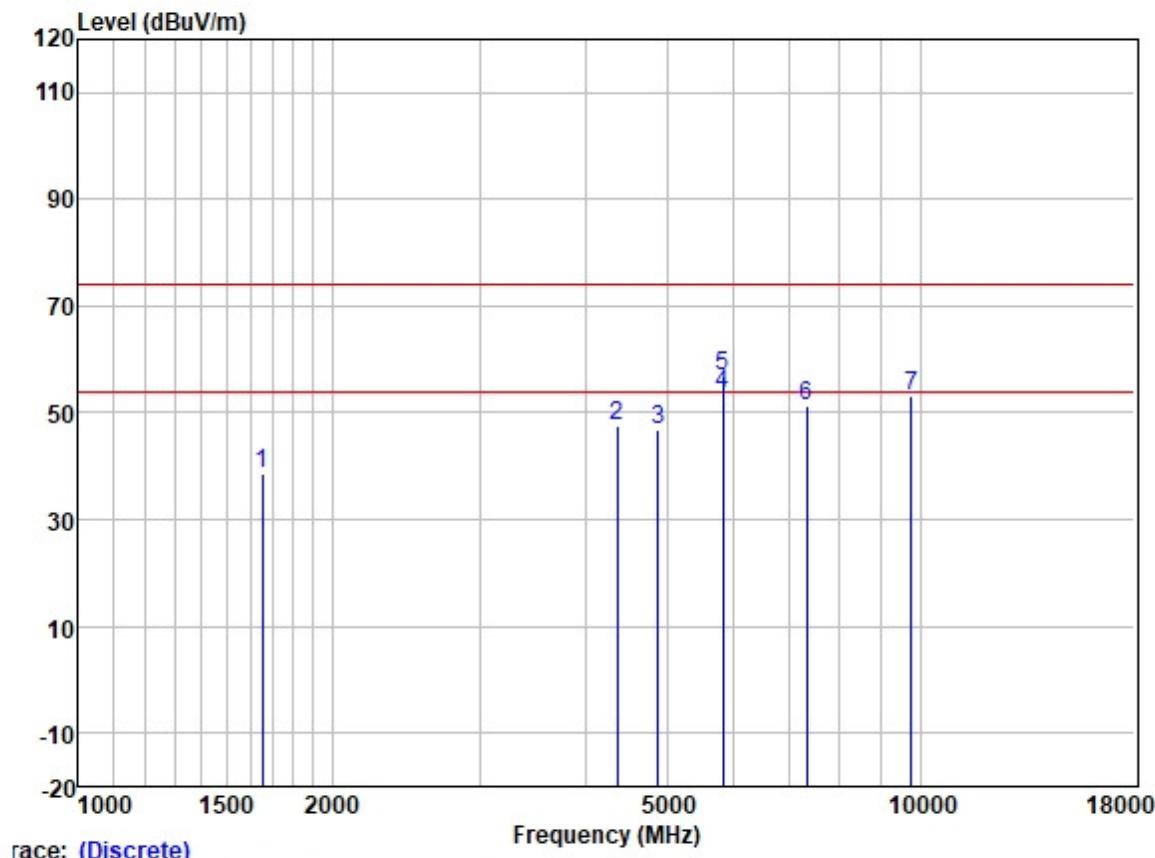


Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:middle; Antenna4



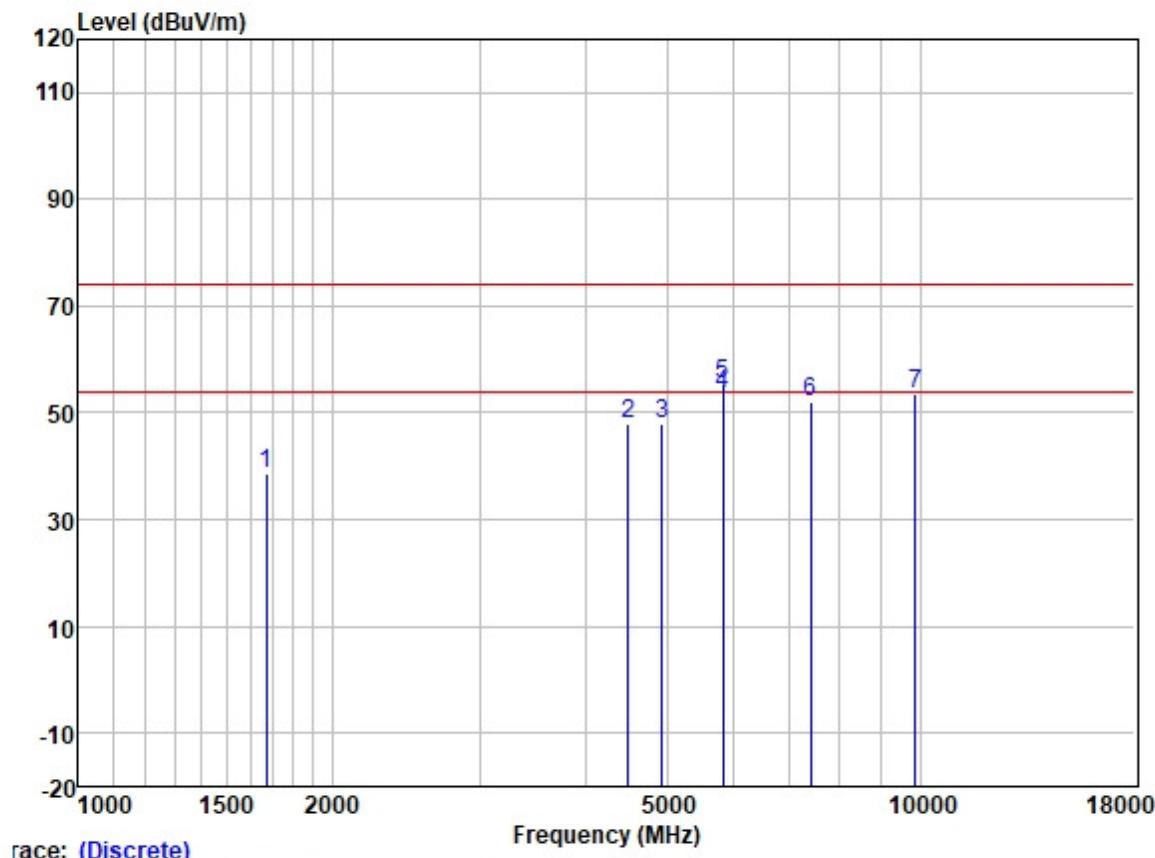
ReadAntenna	Cable	Preamp	Limit	Over	Remark								
					Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB			
1 1653.550	48.13	25.64	2.80	37.93	38.64	74.00	-35.36	VERTICAL	Peak				
2 4367.058	48.98	30.62	4.68	36.81	47.47	74.00	-26.53	VERTICAL	Peak				
3 4884.000	46.41	31.56	5.52	36.84	46.65	74.00	-27.35	VERTICAL	Peak				
4 5830.640	52.30	32.23	6.04	36.90	53.67	54.00	-0.33	VERTICAL	Average				
5 5830.640	55.60	32.23	6.04	36.90	56.97	74.00	-17.03	VERTICAL	Peak				
6 7326.000	46.52	36.00	6.13	37.43	51.22	74.00	-22.78	VERTICAL	Peak				
7 9768.000	45.21	38.53	7.01	37.41	53.34	74.00	-20.66	VERTICAL	Peak				

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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:High; Antenna4



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 1672.779	47.97	25.67	2.80	37.91	38.53	74.00	-35.47	HORIZONTAL	Peak		
2 4495.125	48.80	30.80	5.05	36.82	47.83	74.00	-26.17	HORIZONTAL	Peak		
3 4934.000	47.64	31.62	5.60	36.84	48.02	74.00	-25.98	HORIZONTAL	Peak		
4 5830.640	52.24	32.23	6.04	36.90	53.61	54.00	-0.39	HORIZONTAL	Average		
5 5830.640	53.88	32.23	6.04	36.90	55.25	74.00	-18.75	HORIZONTAL	Peak		
6 7401.000	47.00	36.22	6.20	37.46	51.96	74.00	-22.04	HORIZONTAL	Peak		
7 9868.000	45.37	38.60	6.98	37.41	53.54	74.00	-20.46	HORIZONTAL	Peak		

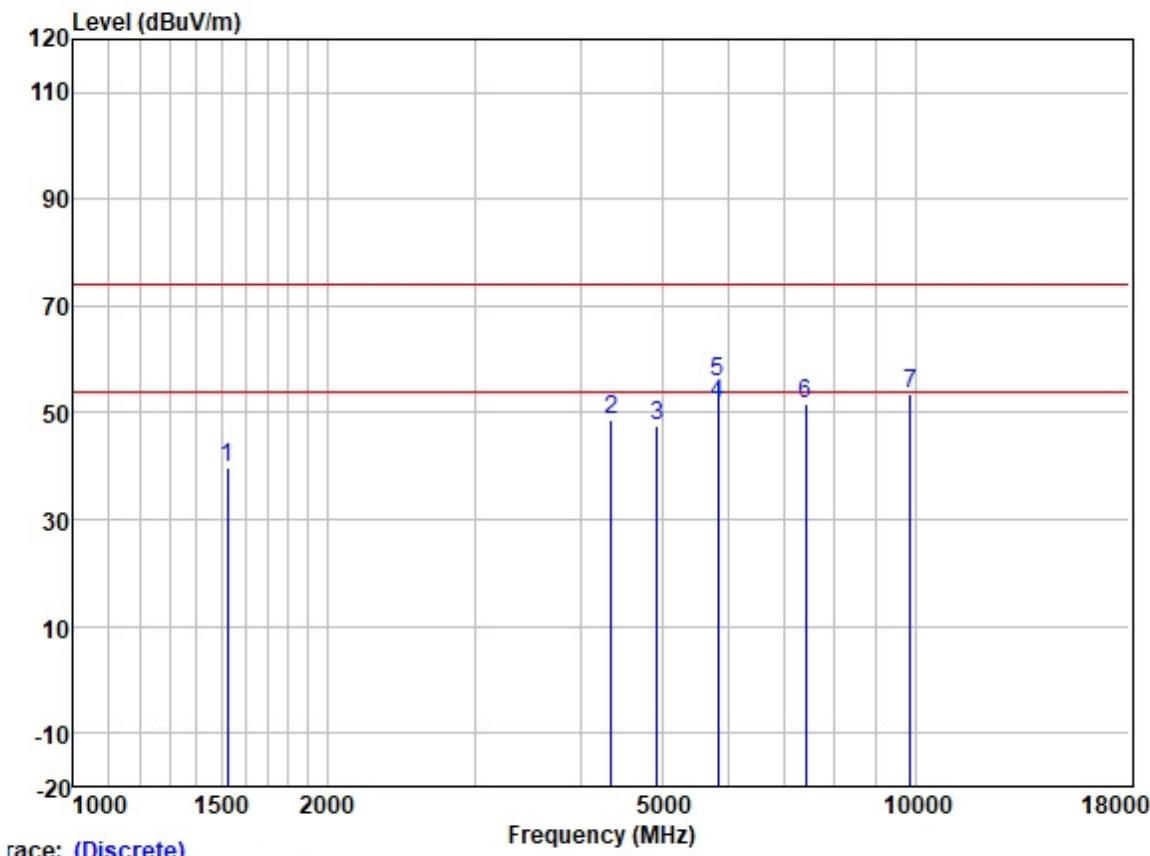
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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High; Antenna4



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 1525.000	49.62	25.52	2.80	38.07	39.87	74.00	-34.13	VERTICAL	Peak	
2 4354.454	50.20	30.59	4.68	36.81	48.66	74.00	-25.34	VERTICAL	Peak	
3 4934.000	47.16	31.62	5.60	36.84	47.54	74.00	-26.46	VERTICAL	Peak	
4 5830.640	50.29	32.23	6.04	36.90	51.66	54.00	-2.34	VERTICAL	Average	
5 5830.640	54.32	32.23	6.04	36.90	55.69	74.00	-18.31	VERTICAL	Peak	
6 7401.000	46.75	36.22	6.20	37.46	51.71	74.00	-22.29	VERTICAL	Peak	
7 9868.000	45.24	38.60	6.98	37.41	53.41	74.00	-20.59	VERTICAL	Peak	

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7.10 Duty Cycle

Test Requirement KDB 558074 D01 v05r02 section 6
Test Method: ANSI C63.10 (2013) Section 11.6

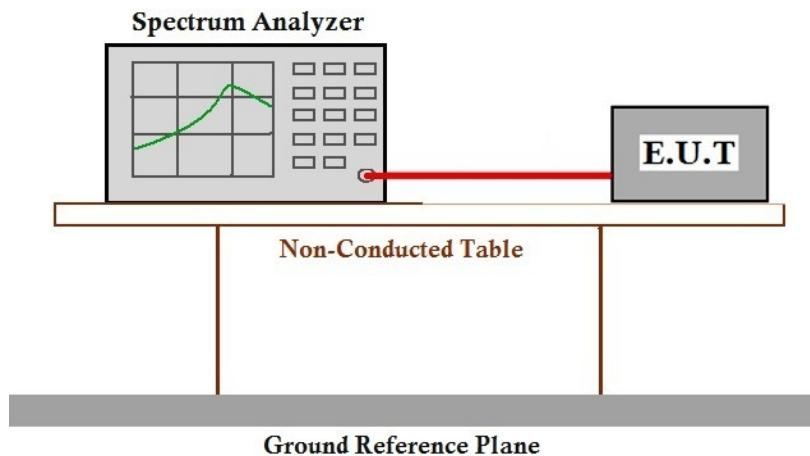
7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 21.2 °C Humidity: 52.4 % RH Atmospheric Pressure: 1003 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

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8 Test Setup Photo

Refer to Appendix - Test Setup Photos for GZCR2112021463AT.

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2112021463AT.

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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
2.4G Proprietary	SISO	2412	4.946	5.141	96.21	0.17	0.74
		2442	4.946	5.141	96.21	0.17	0.04
		2467	4.946	5.139	96.24	0.17	0.00

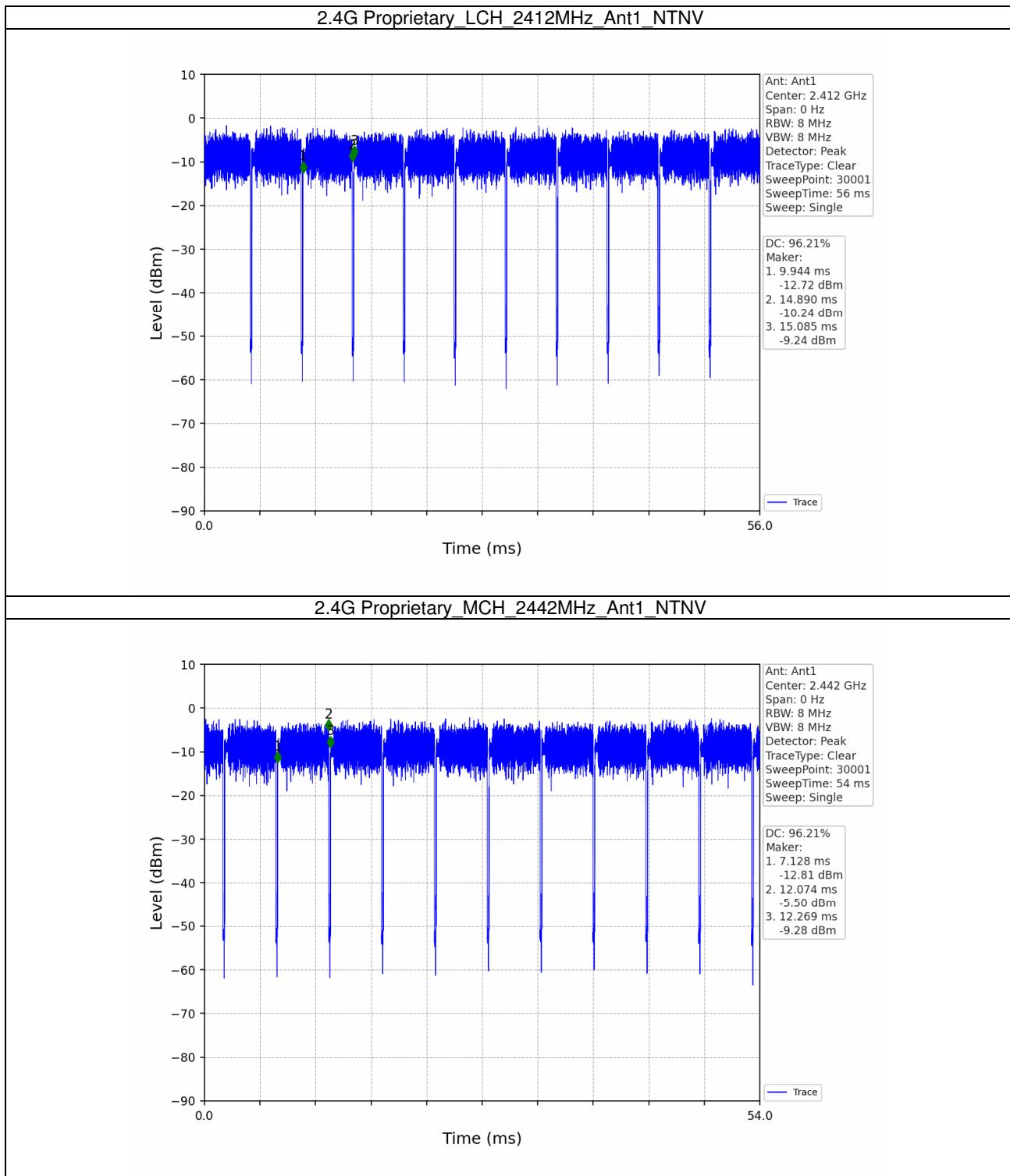


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1.1.2 Test Graph

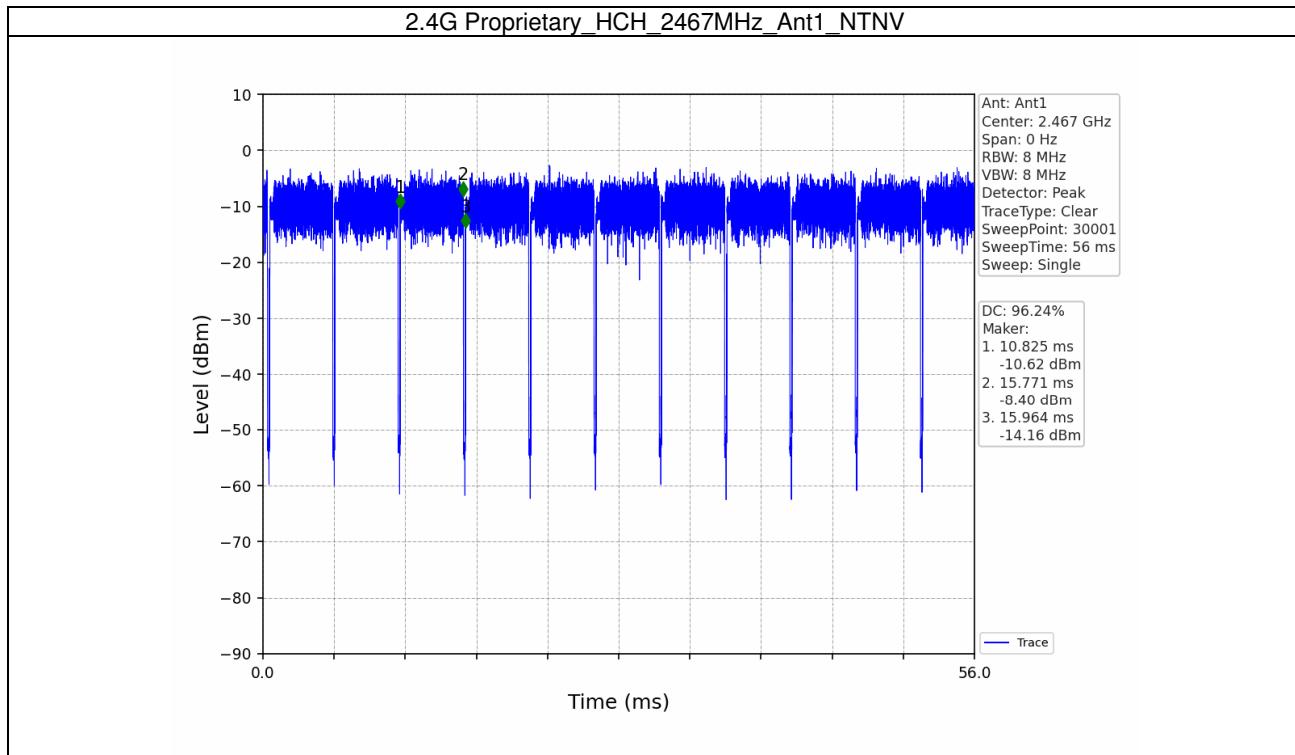


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1.2 Ant2

1.2.1 Test Result

Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
2.4G Proprietary	SISO	2412	4.946	5.140	96.23	0.17	0.03
		2442	4.946	5.141	96.21	0.17	0.04
		2467	4.946	5.141	96.21	0.17	0.04

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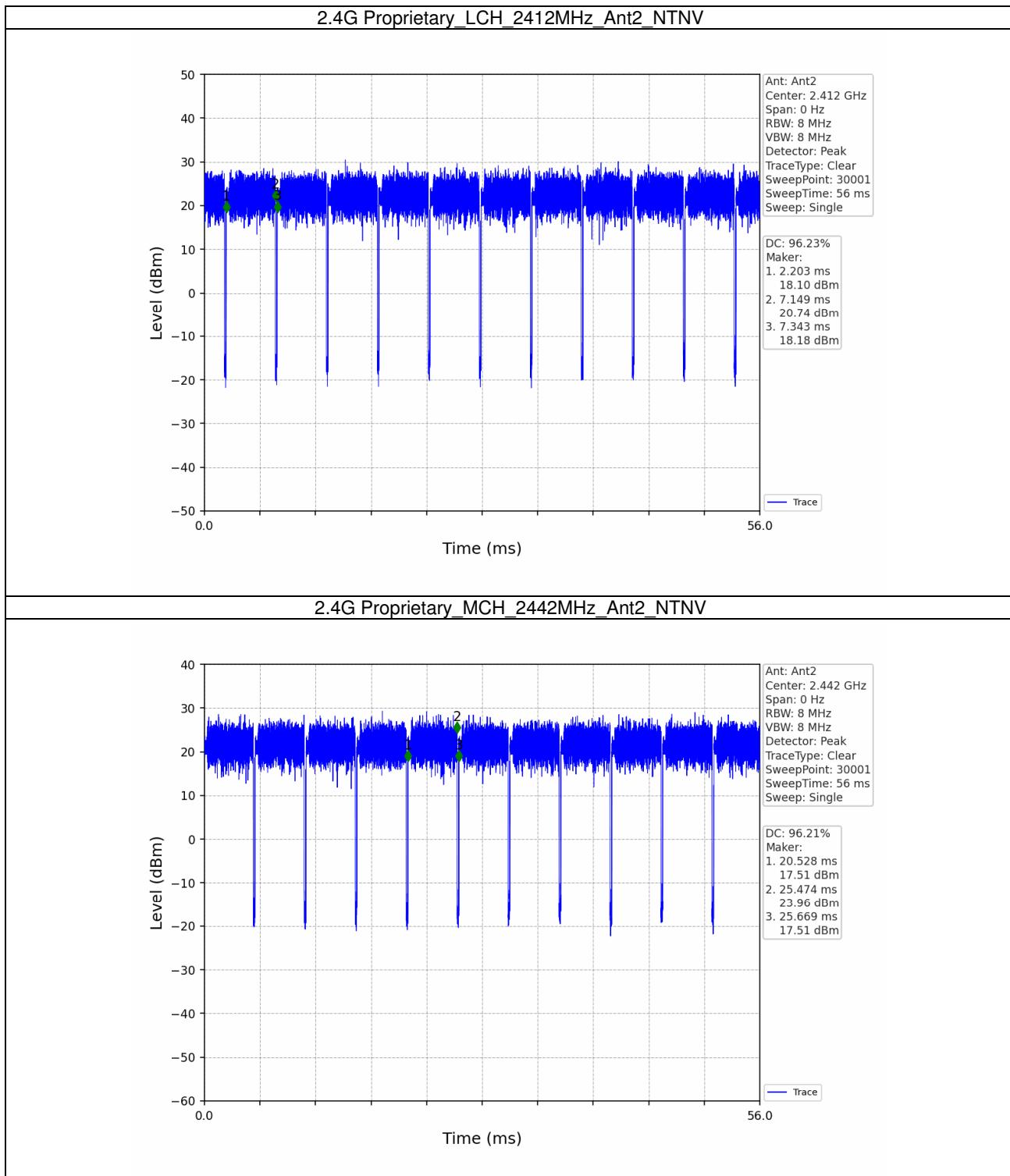


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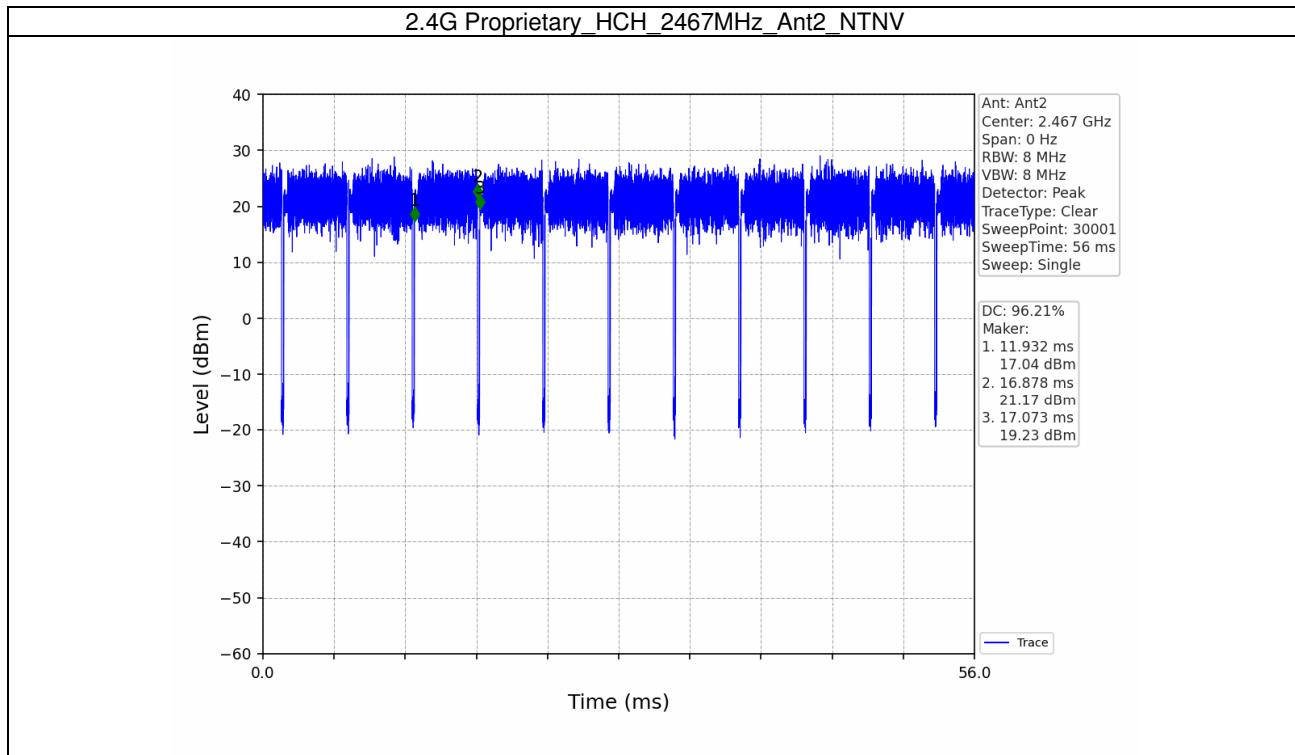
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1.2.2 Test Graph



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1.3 Ant3

1.3.1 Test Result

Ant3							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
2.4G Proprietary	SISO	2412	4.946	5.139	96.24	0.17	0.04
		2442	4.947	5.141	96.23	0.17	0.75
		2467	4.946	5.141	96.21	0.17	0.04

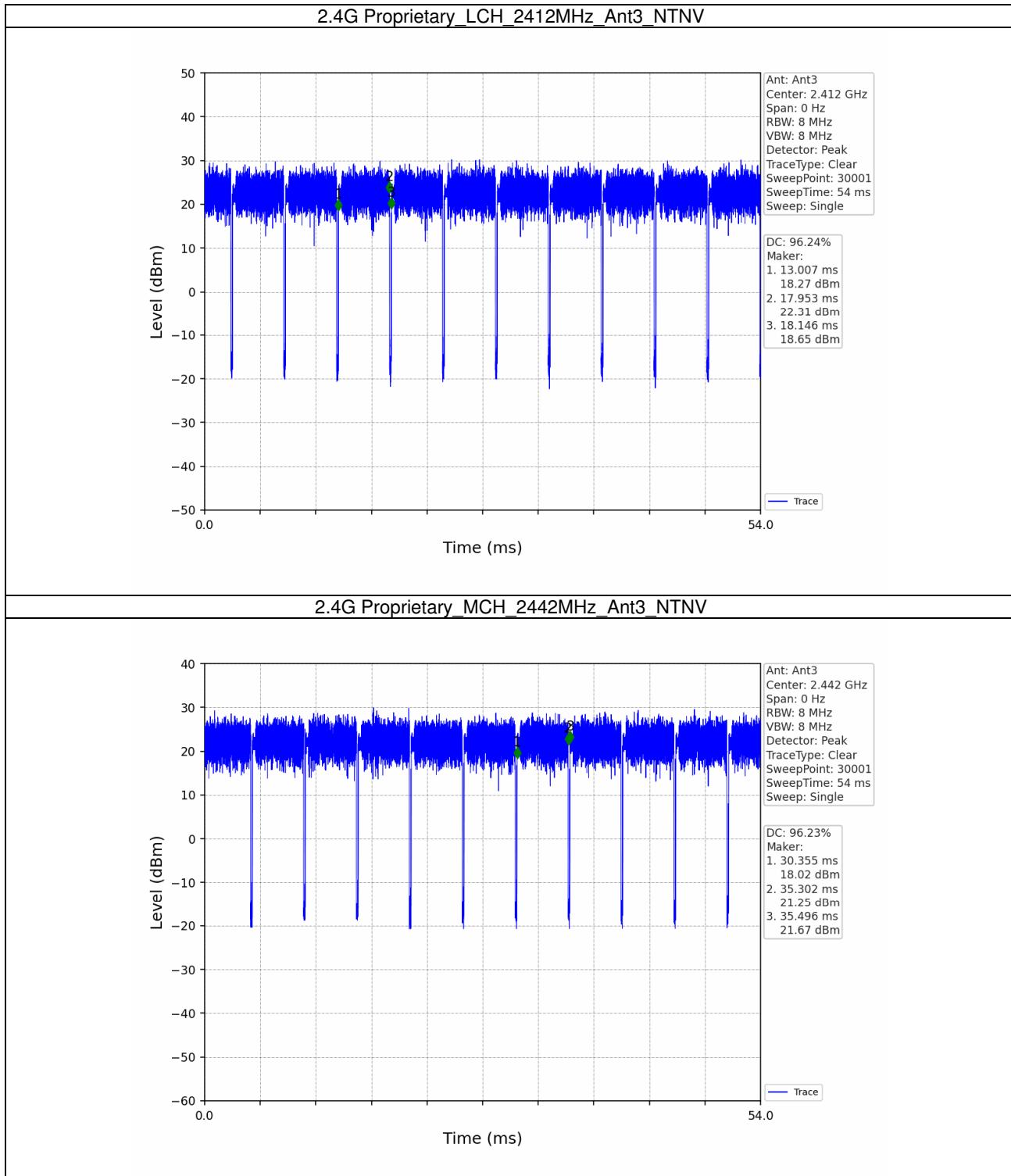
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1.3.2 Test Graph



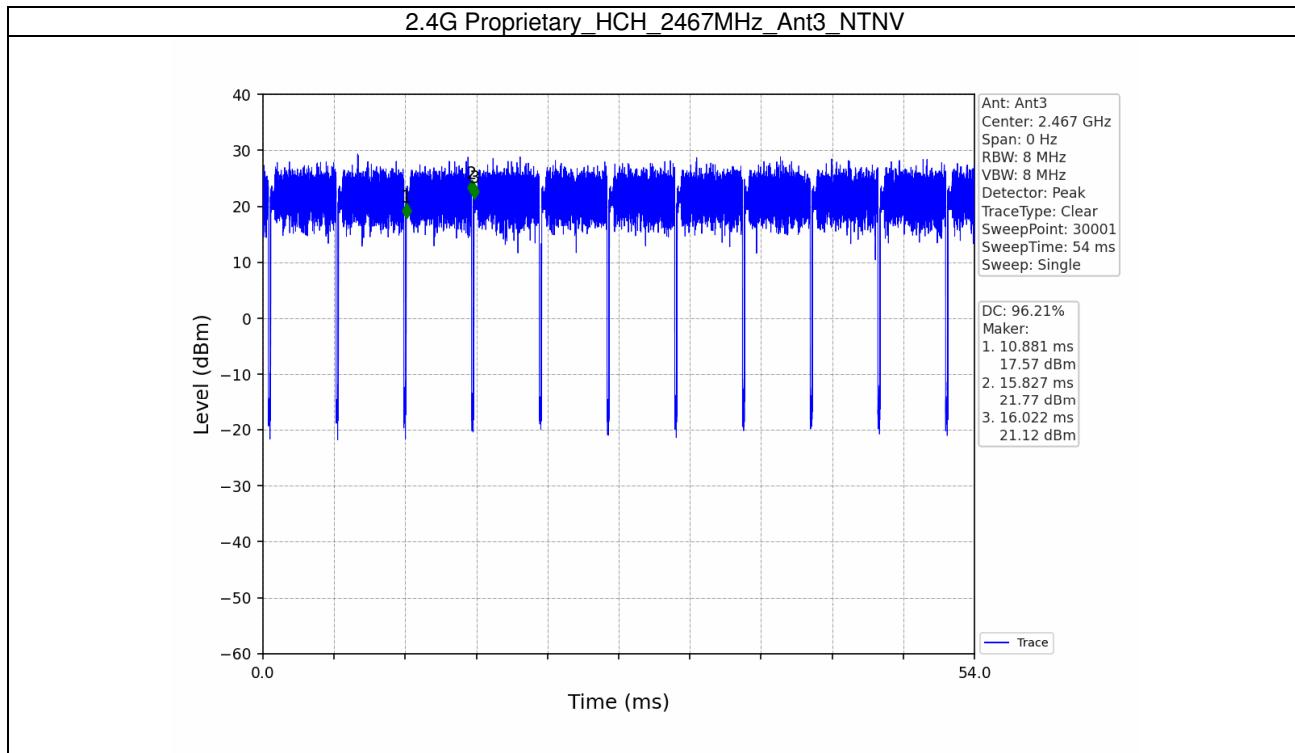
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1.4 Ant4**1.4.1 Test Result**

Ant4							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
2.4G Proprietary	SISO	2412	4.947	5.141	96.23	0.17	0.75
		2442	4.947	5.139	96.26	0.17	0.00
		2467	4.947	5.141	96.23	0.17	0.04

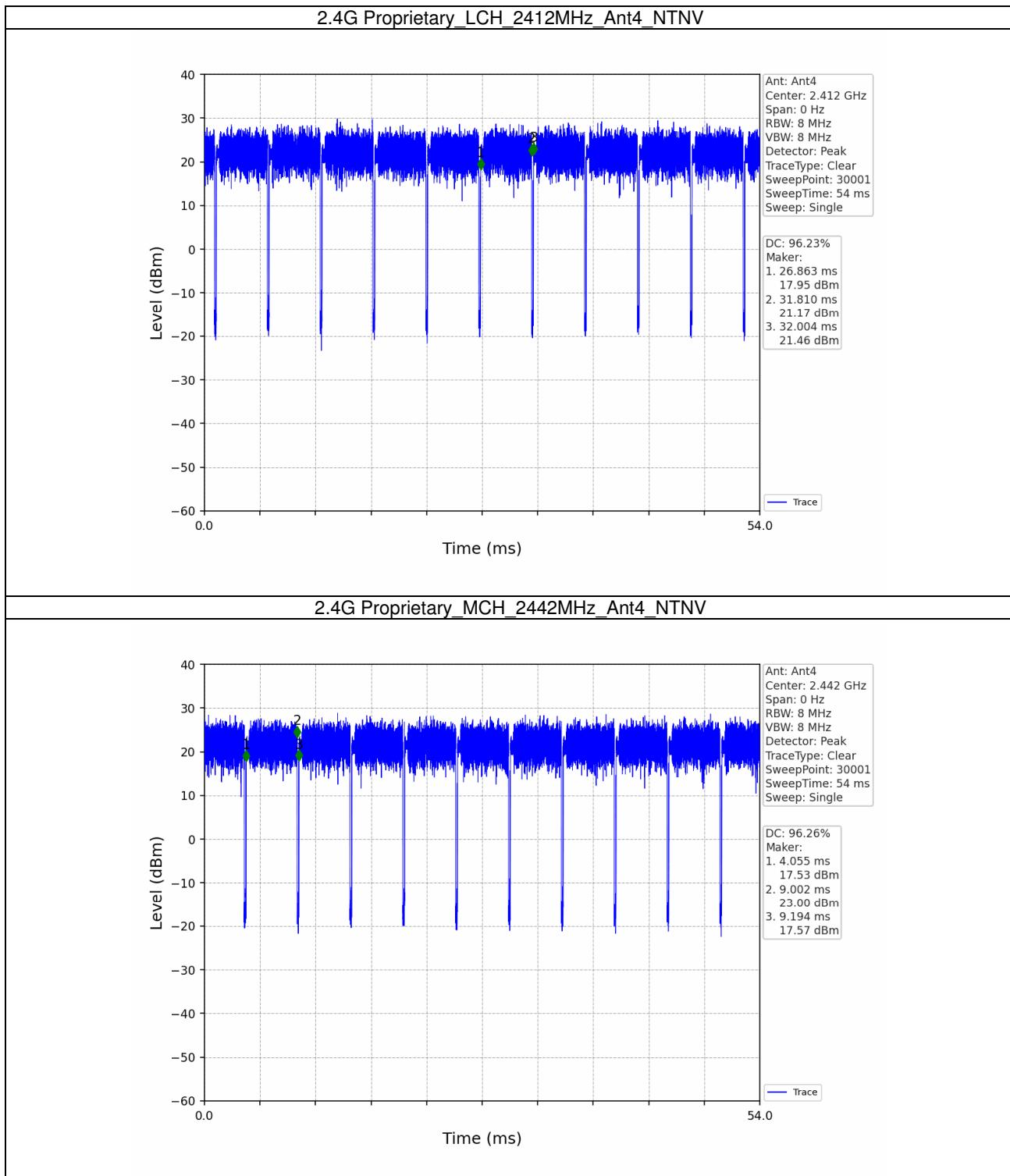
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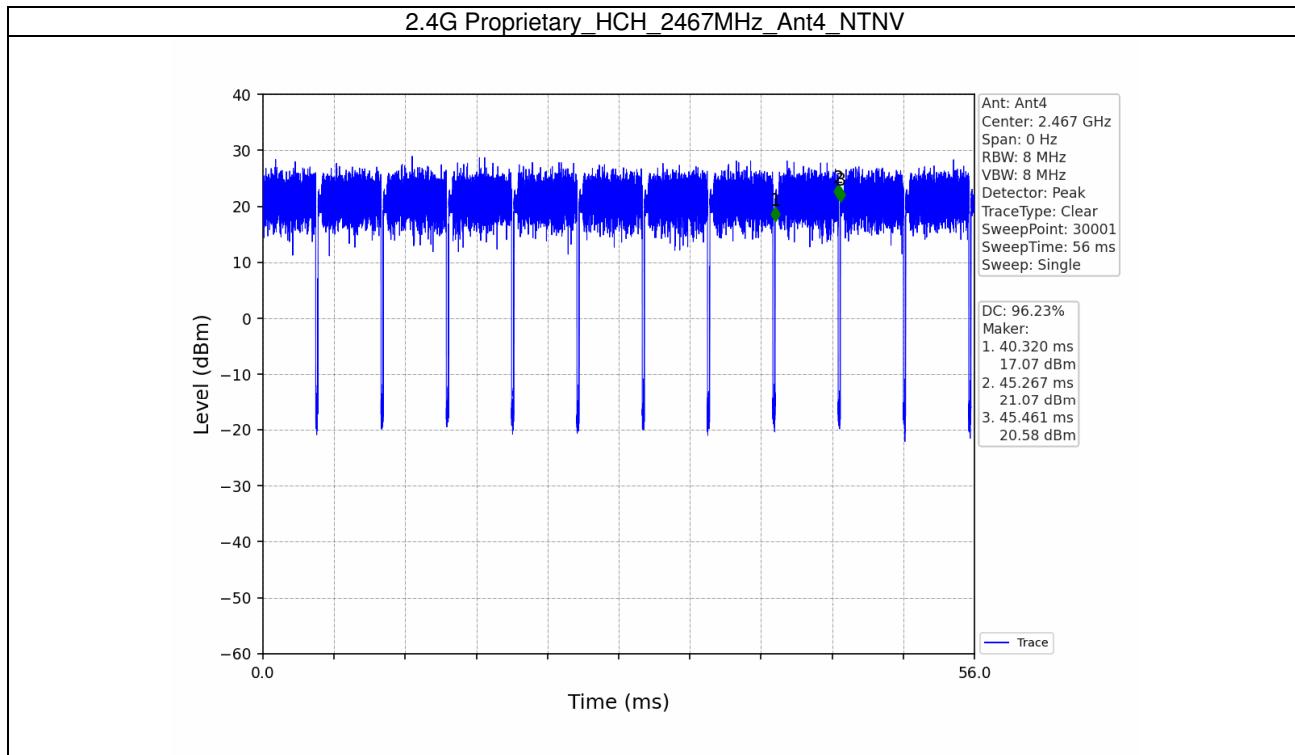
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1.4.2 Test Graph





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2. Bandwidth

2.1 6dB BW

2.1.1 Test Result

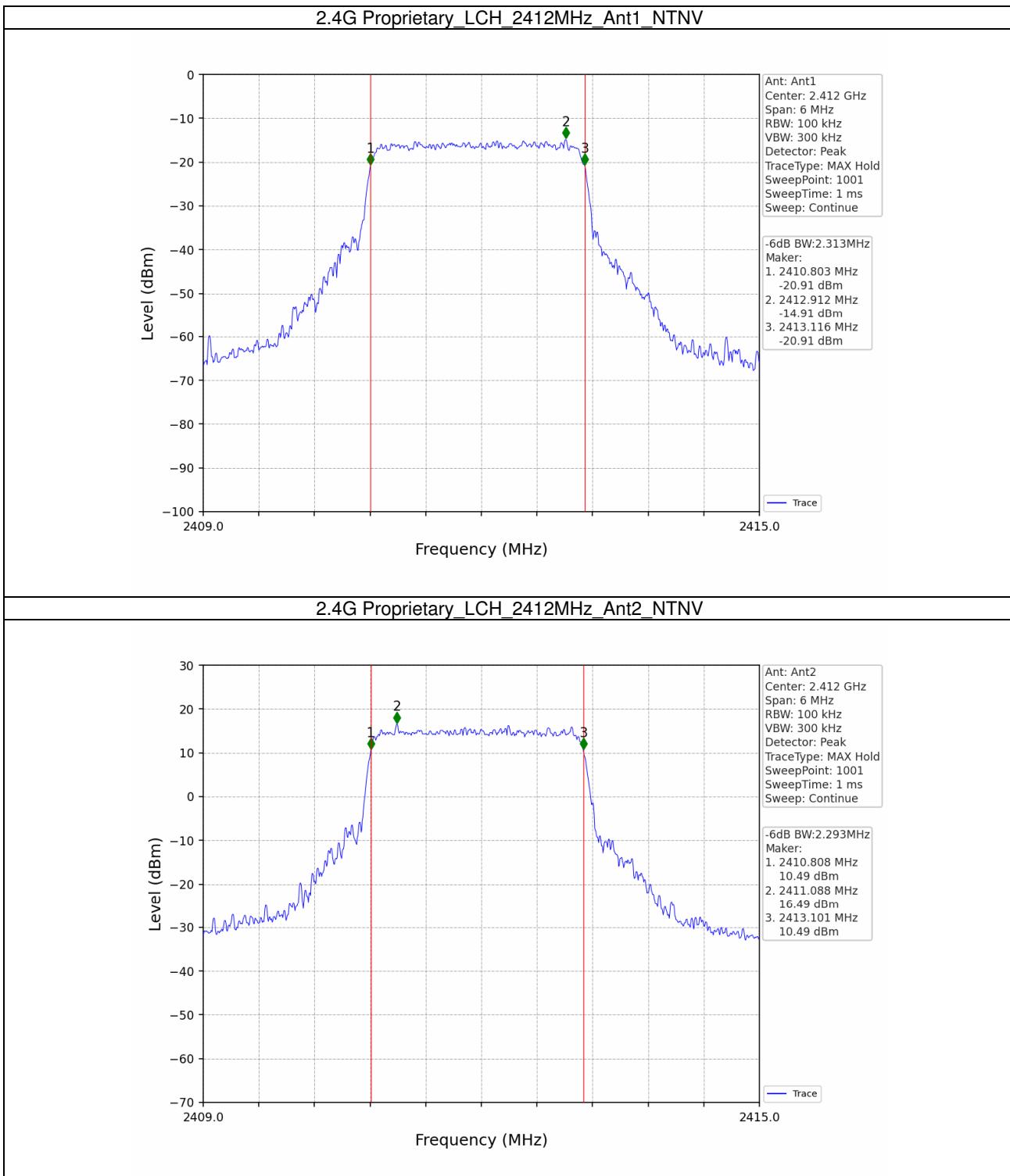
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
2.4G Proprietary	SISO	2412	1	2.313	>=0.5	Pass
			2	2.293	>=0.5	Pass
			3	2.296	>=0.5	Pass
			4	2.284	>=0.5	Pass
		2442	1	2.289	>=0.5	Pass
			2	2.288	>=0.5	Pass
			3	2.302	>=0.5	Pass
			4	2.314	>=0.5	Pass
		2467	1	2.304	>=0.5	Pass
			2	2.296	>=0.5	Pass
			3	2.293	>=0.5	Pass
			4	2.310	>=0.5	Pass

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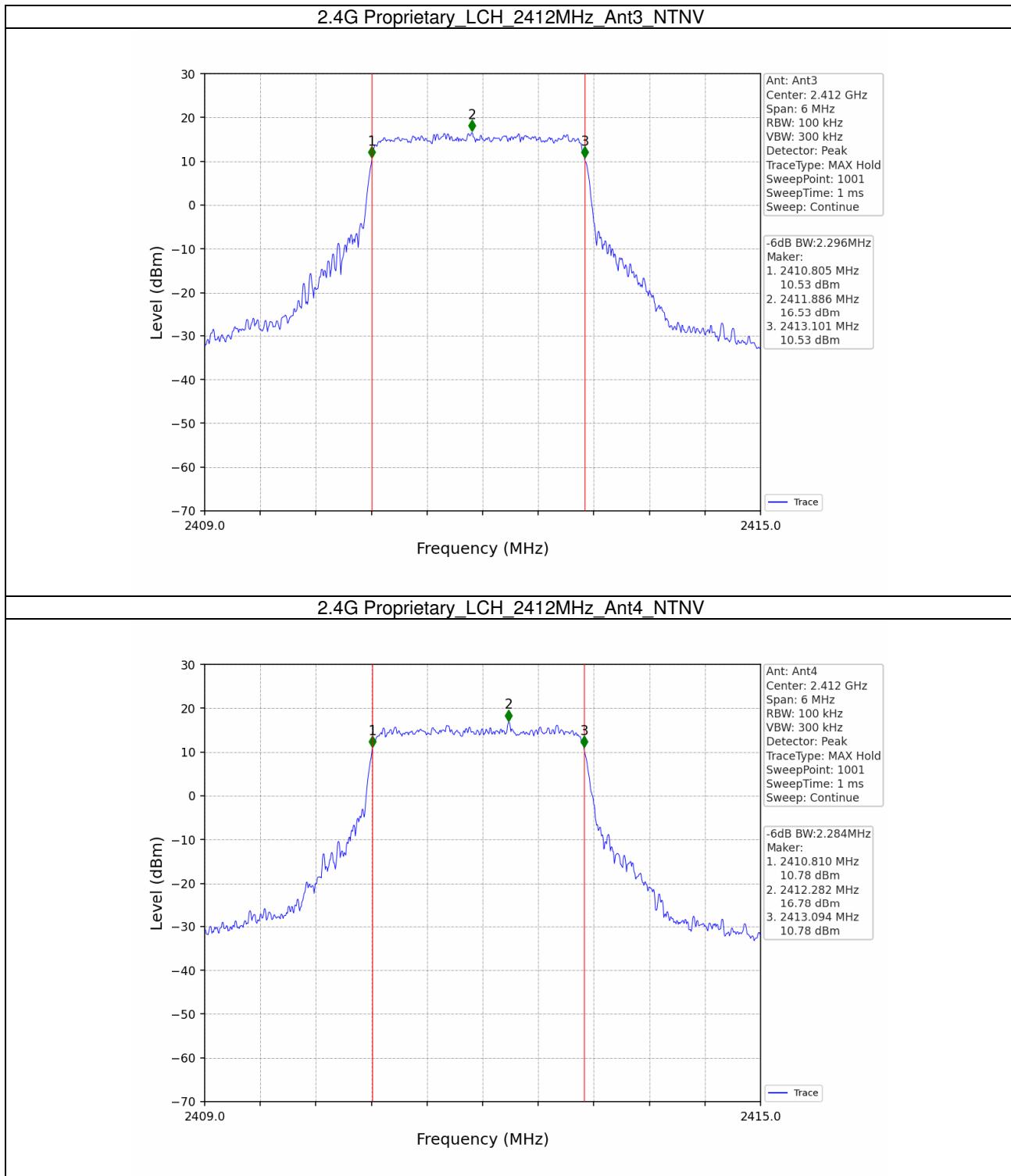


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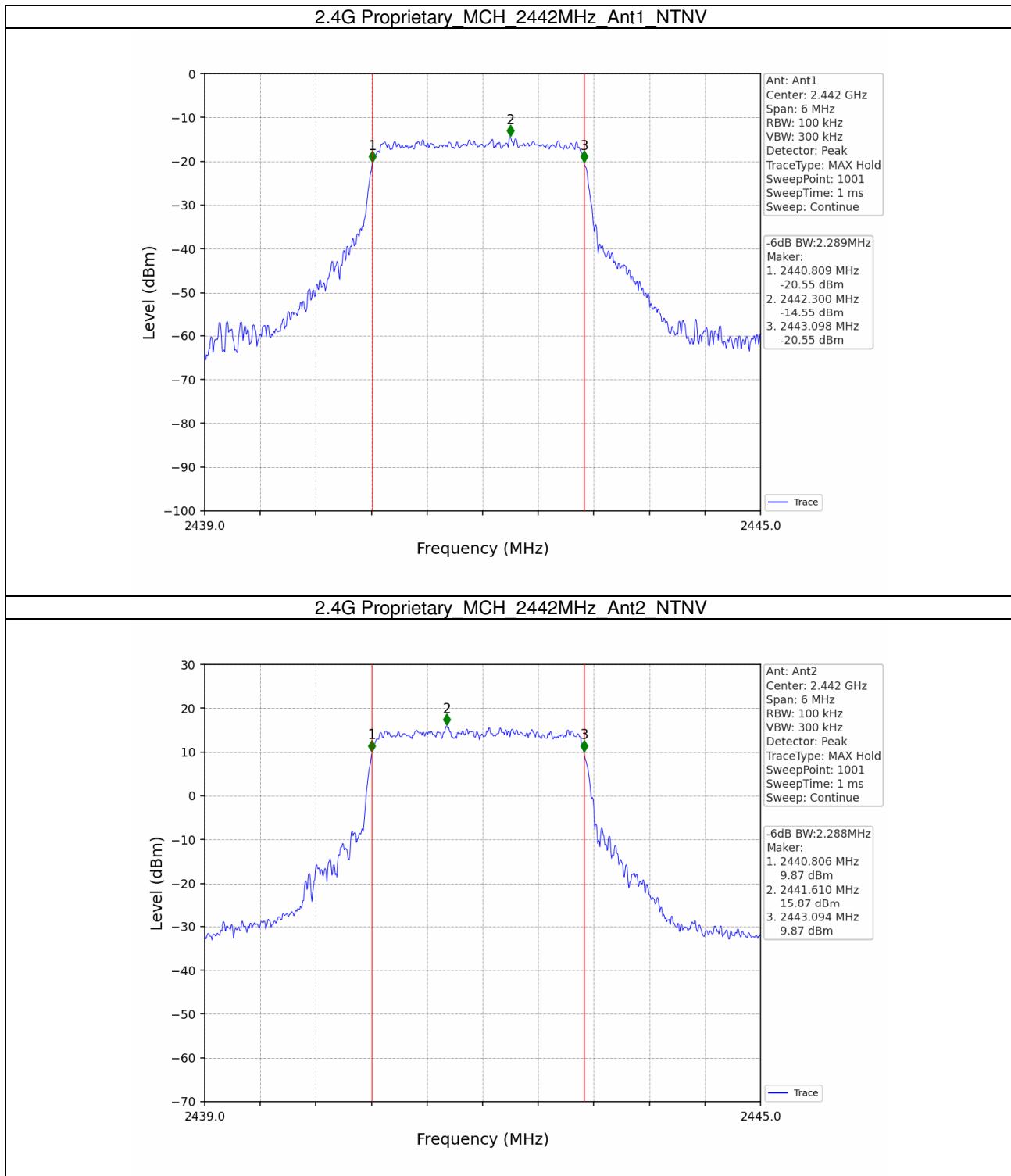
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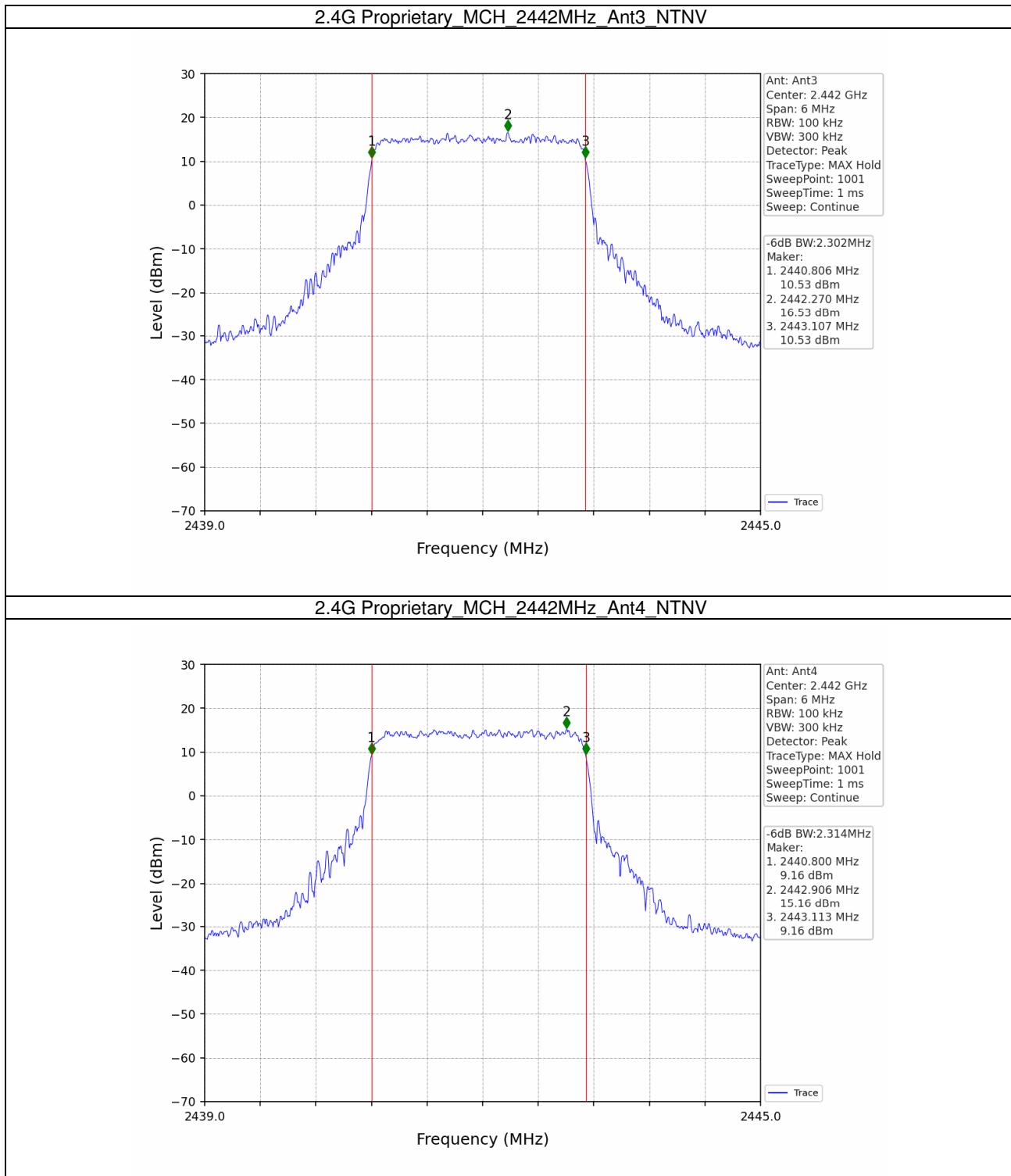
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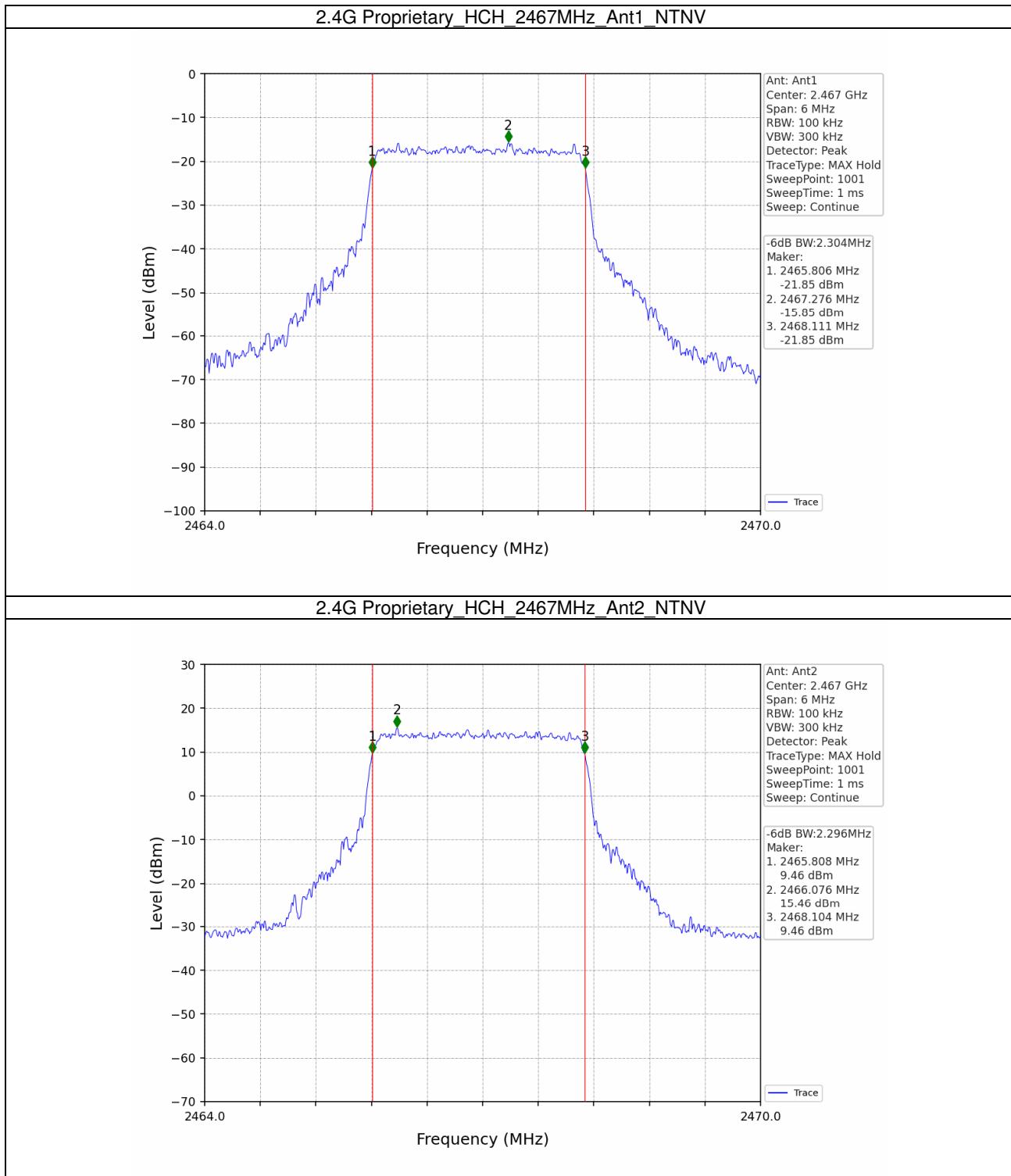


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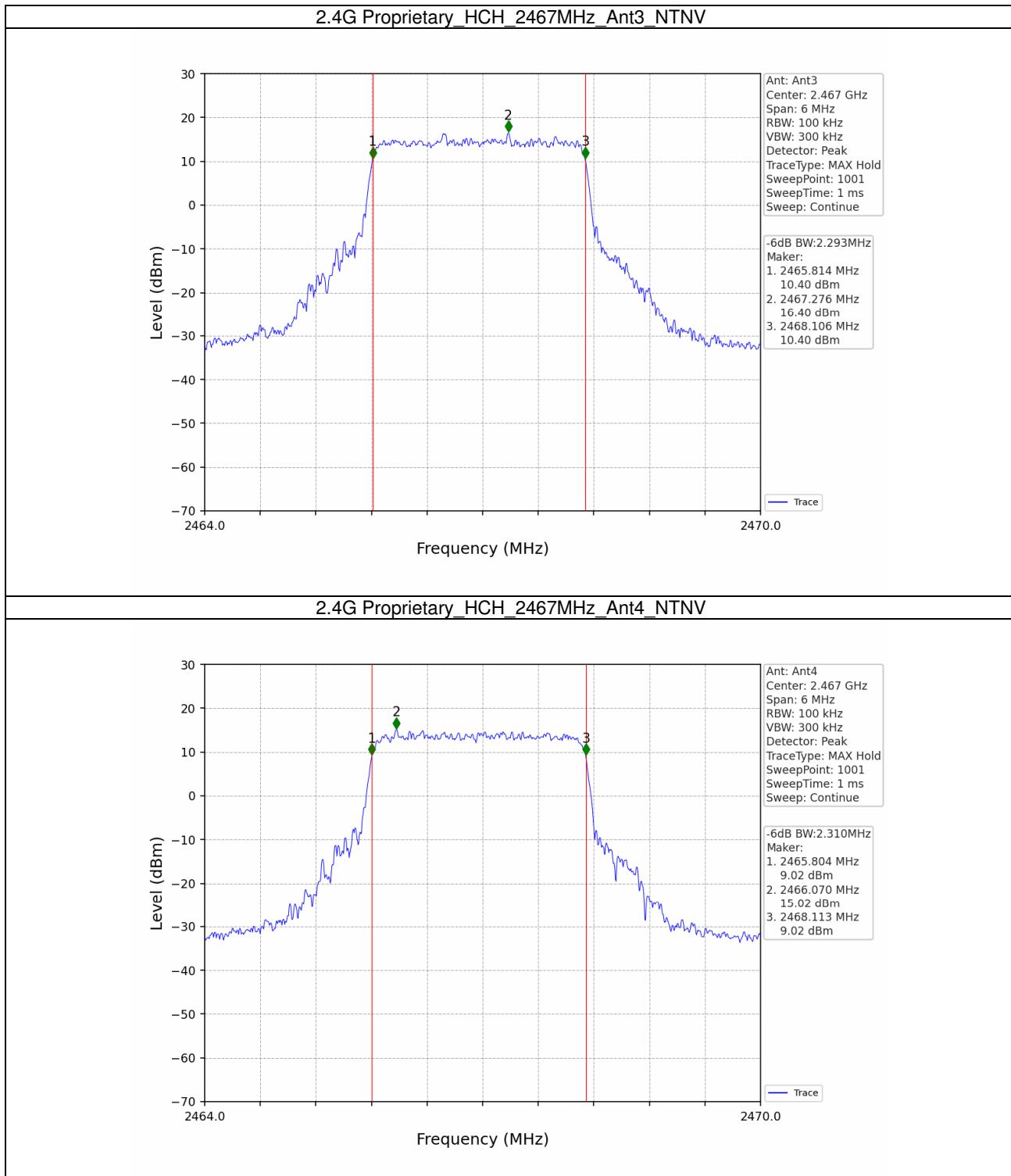


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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)					Verdict
			Ant1	Ant2	Ant3	Ant4	Limit	
2.4G Proprietary	SISO	2412	18.72	18.25	18.76	18.13	<=30	Pass
		2442	18.27	17.77	18.26	17.71	<=30	Pass
		2467	17.69	17.20	17.78	17.21	<=30	Pass

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)					Verdict
			Ant1	Ant2	Ant3	Ant4	Limit	
2.4G Proprietary	SISO	2412	5.31	5.19	5.58	5.12	<=8	Pass
		2442	5.04	4.57	5.14	4.30	<=8	Pass
		2467	4.55	4.19	4.59	4.11	<=8	Pass

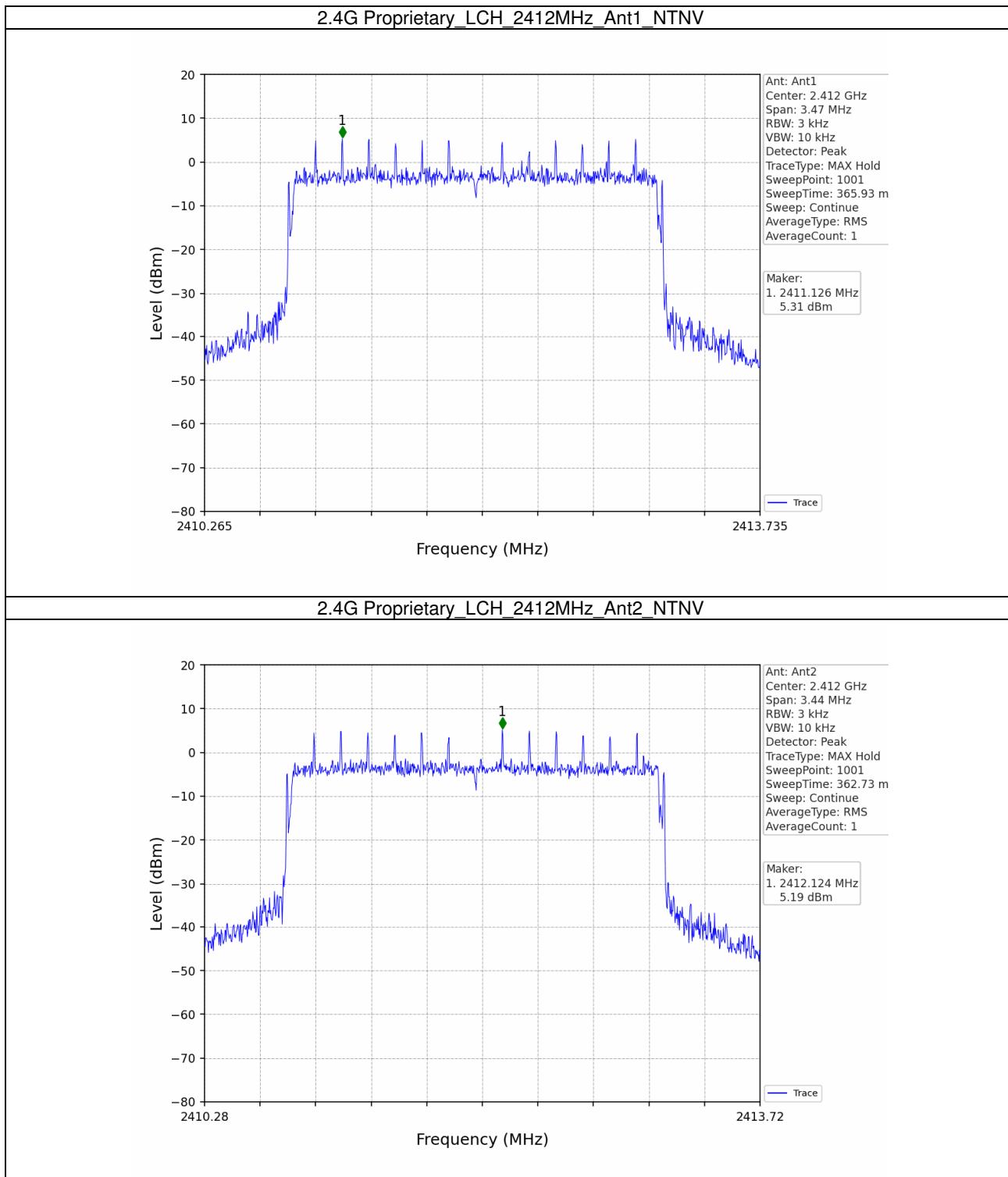
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4.1.2 Test Graph



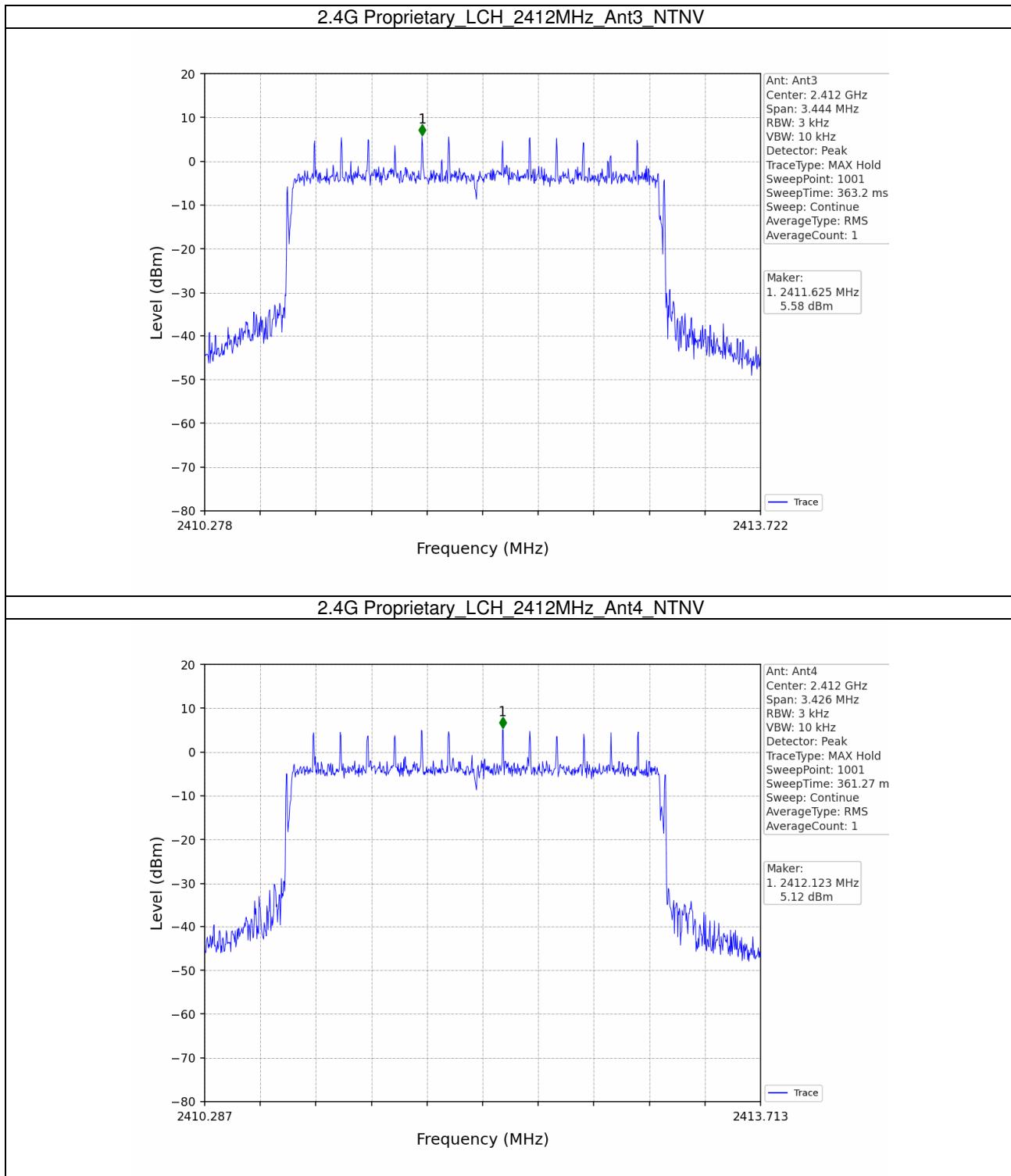
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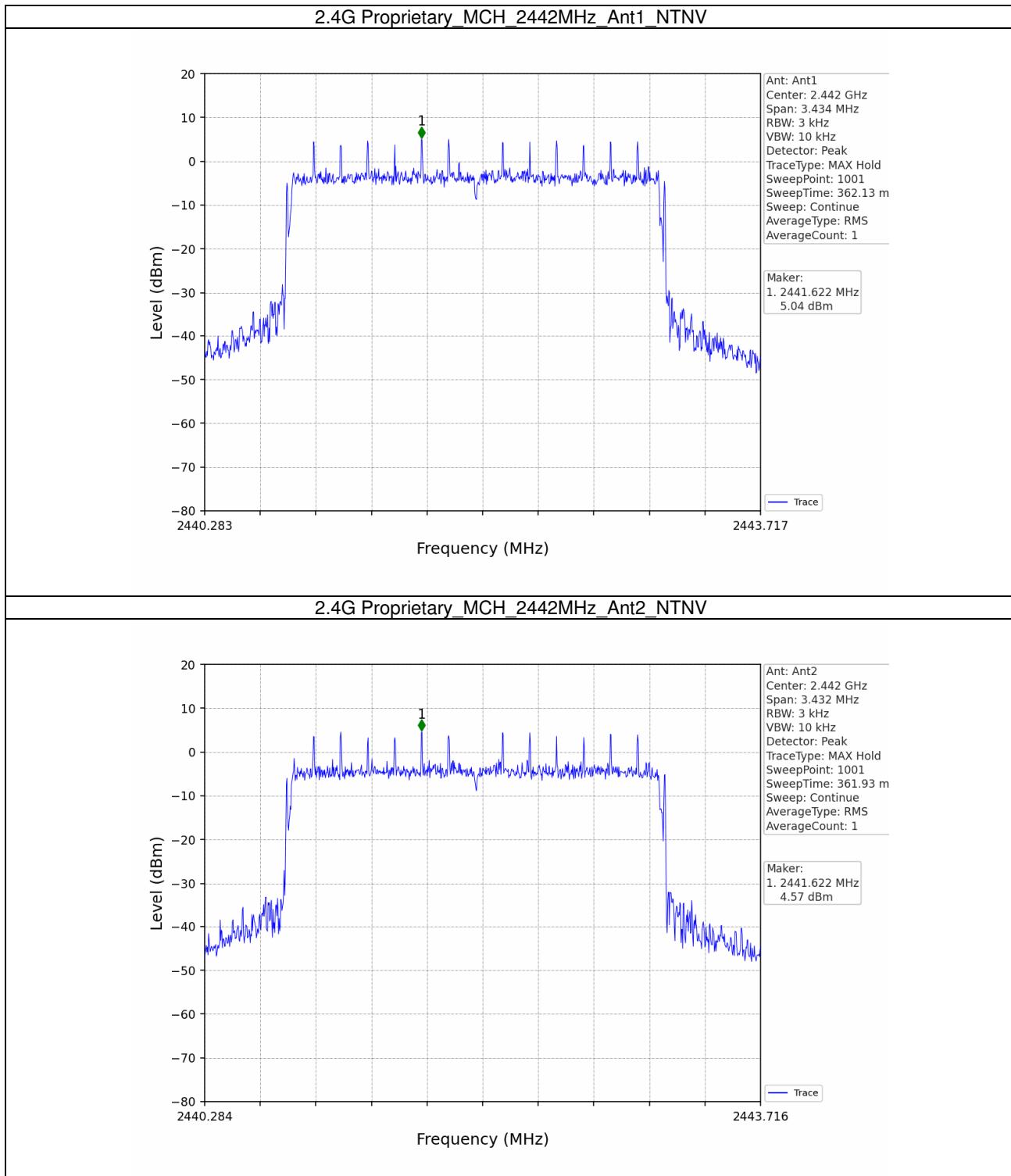


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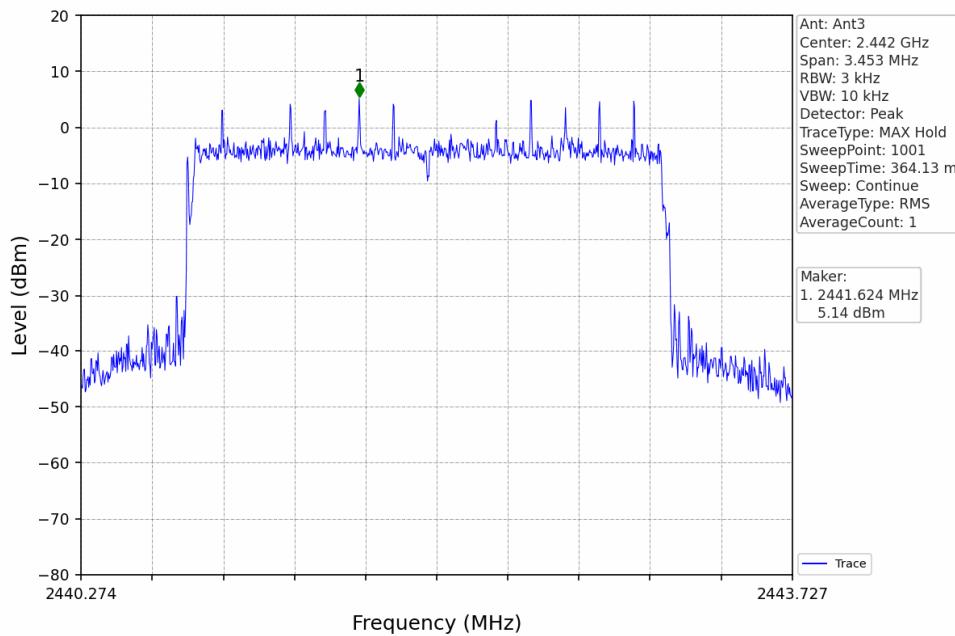
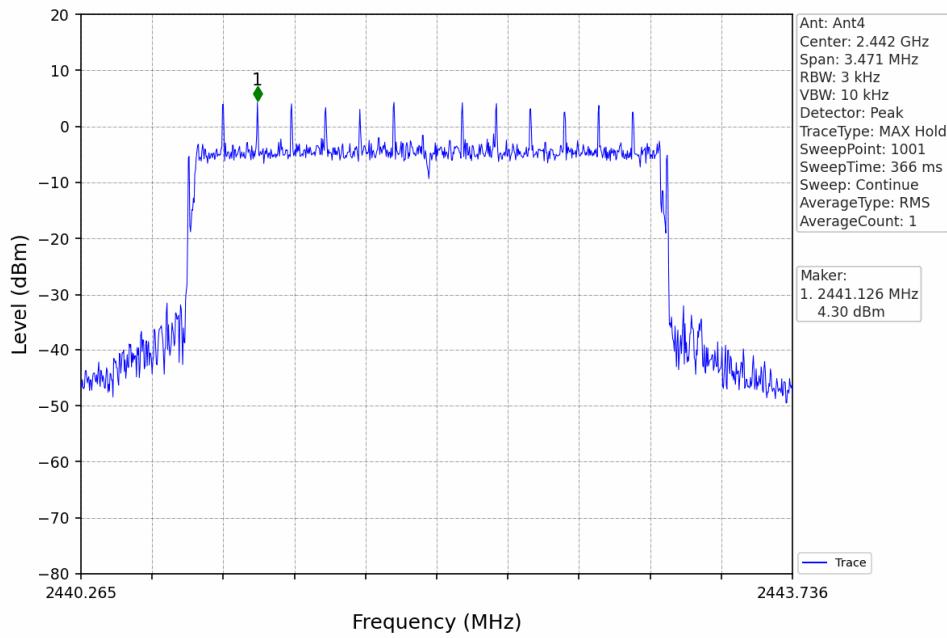


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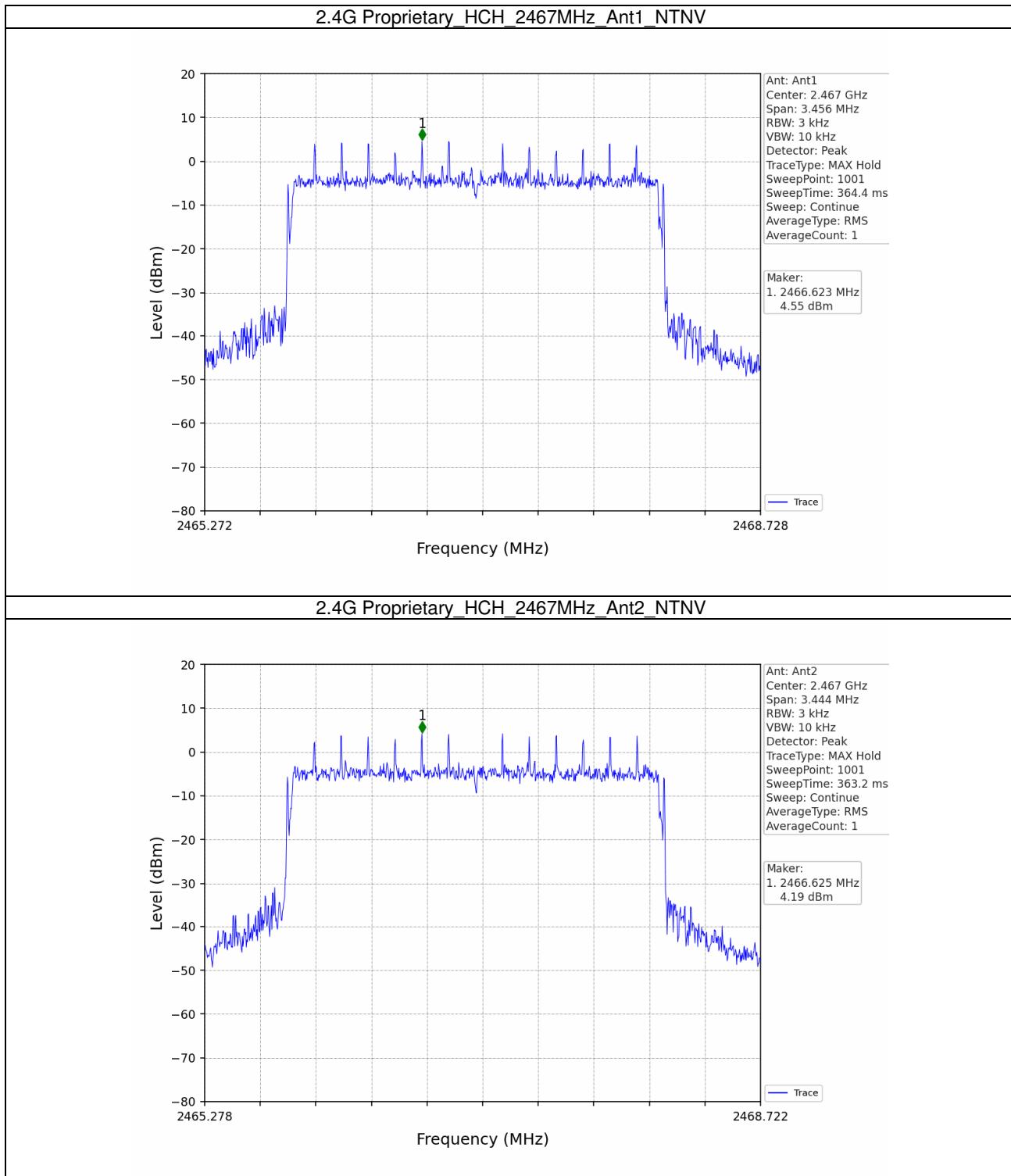
2.4G Proprietary_MCH_2442MHz_Ant3_NTNV**2.4G Proprietary_MCH_2442MHz_Ant4_NTNV**

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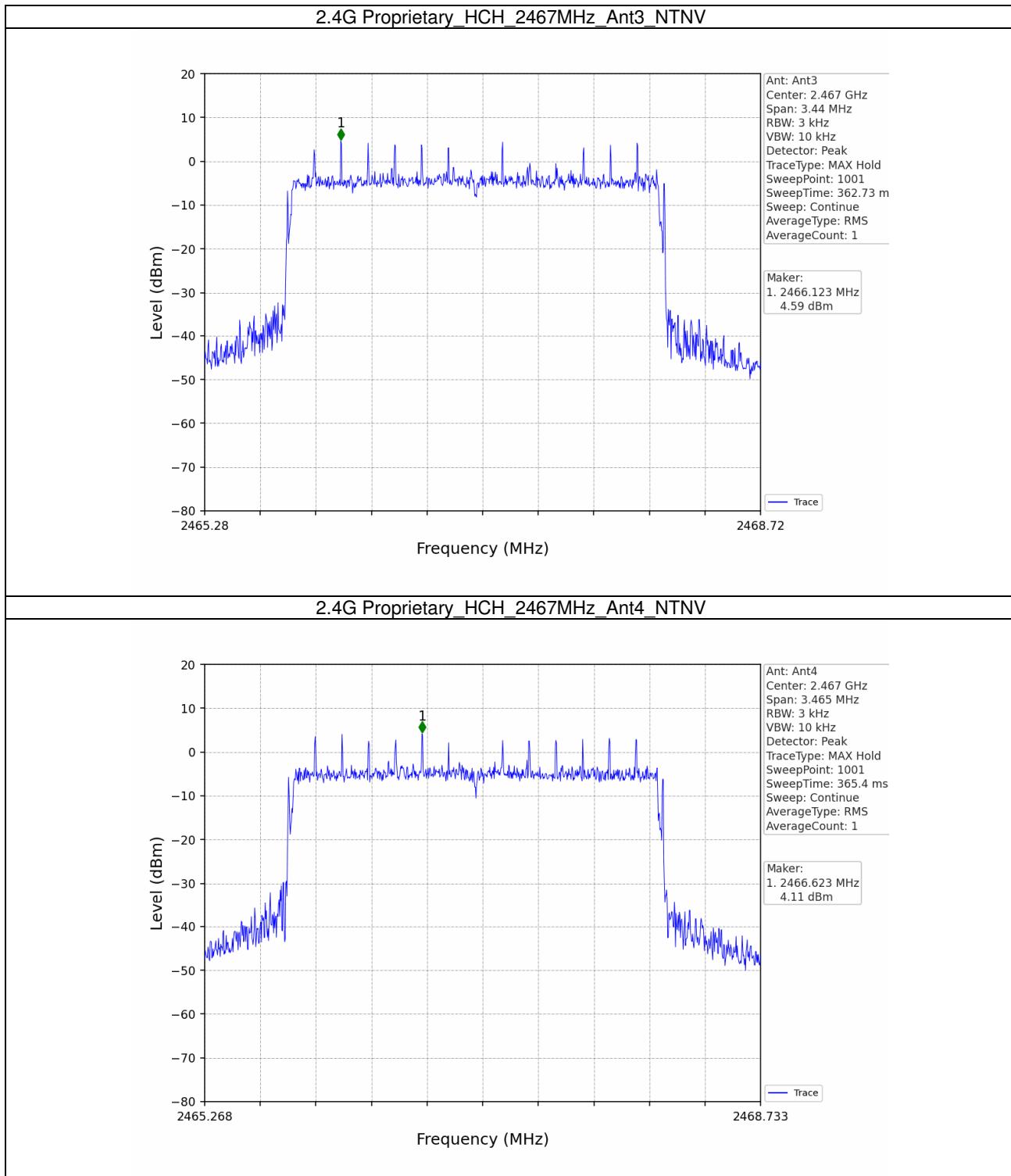


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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

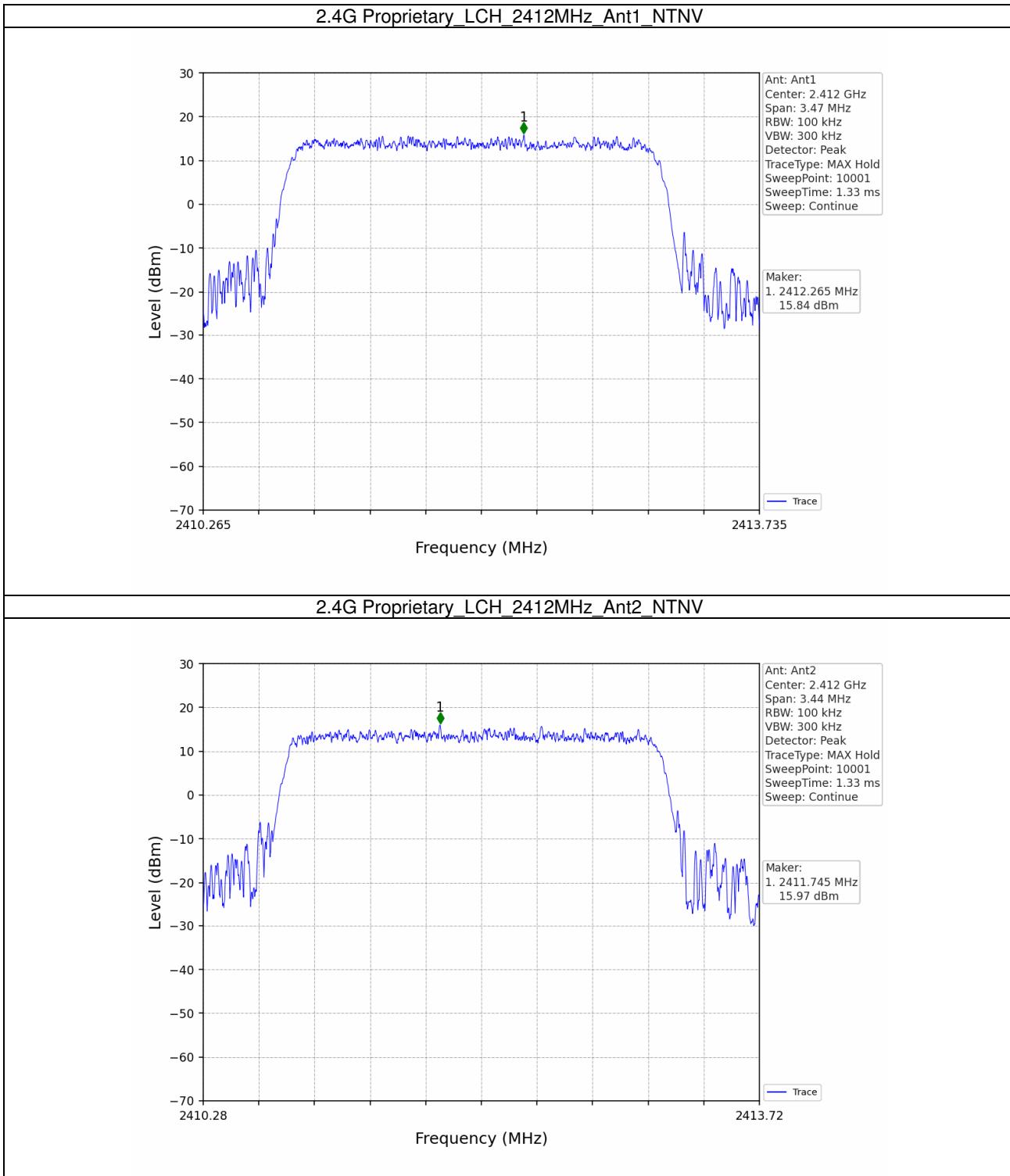
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
2.4G Proprietary	SISO	2412	1	15.84
			2	15.97
			3	16.92
			4	16.45
		2442	1	15.47
			2	15.82
			3	15.63
			4	15.91
		2467	1	15.63
			2	15.20
			3	15.28
			4	15.42

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5.1.2 Test Graph

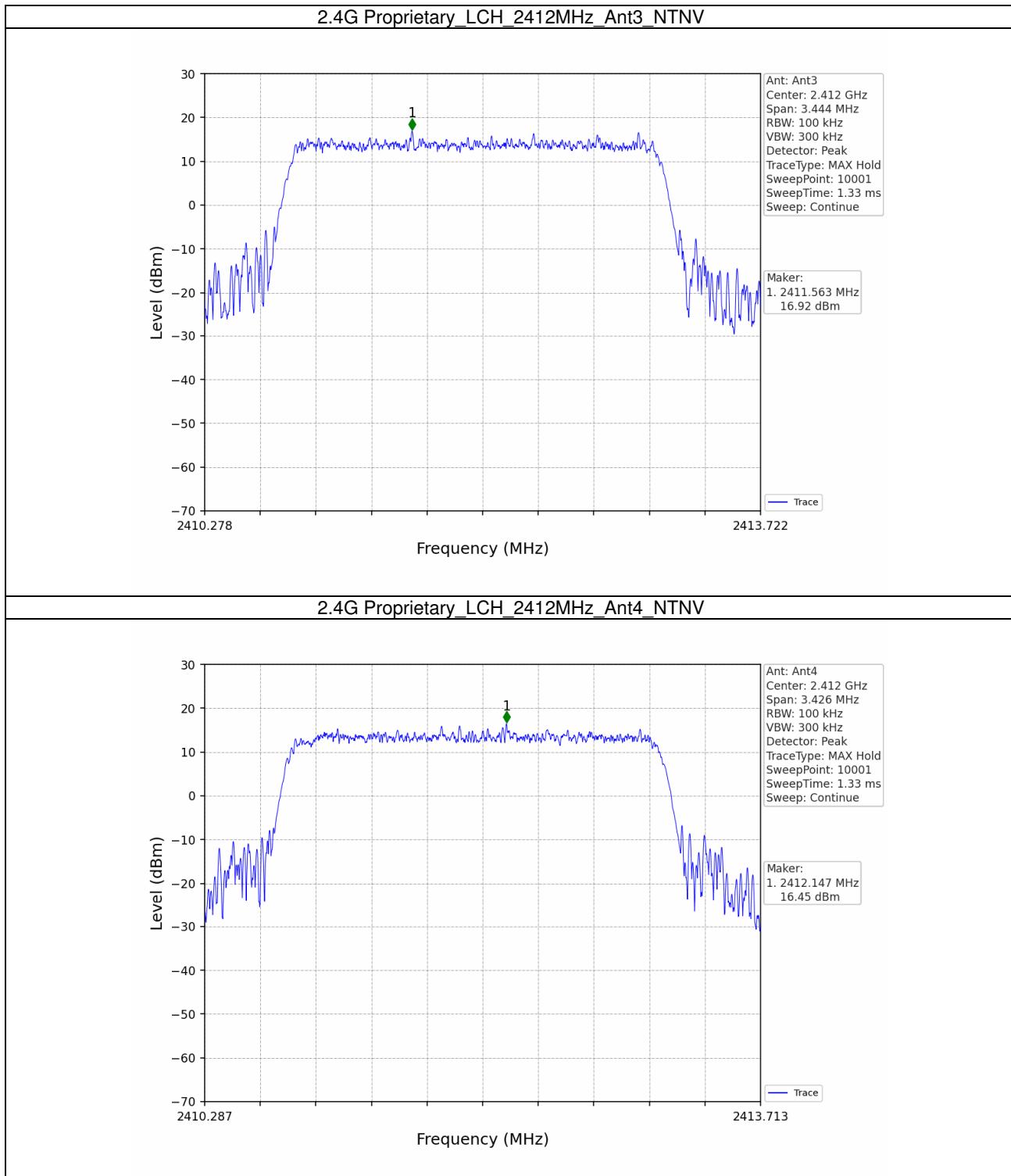


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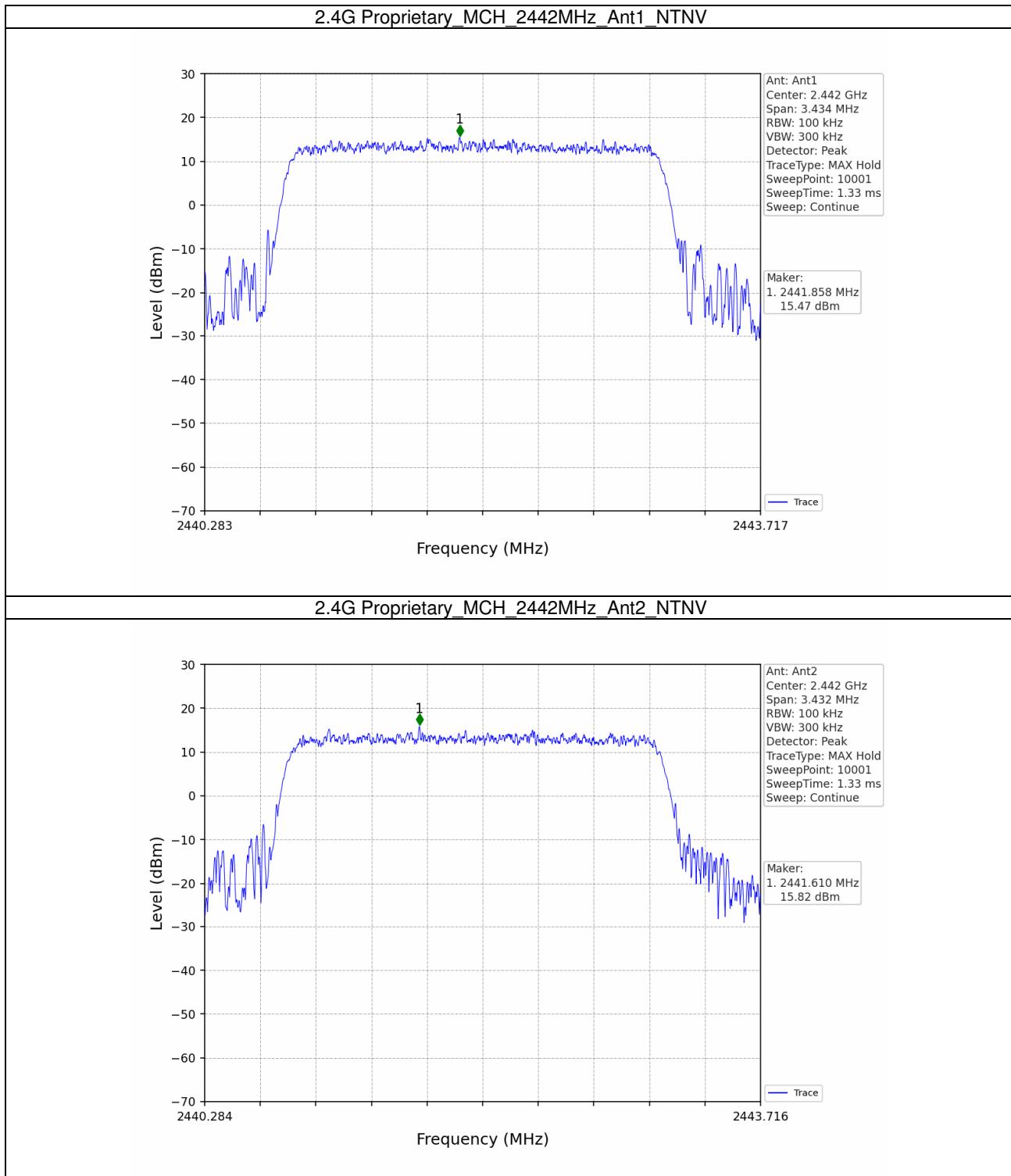


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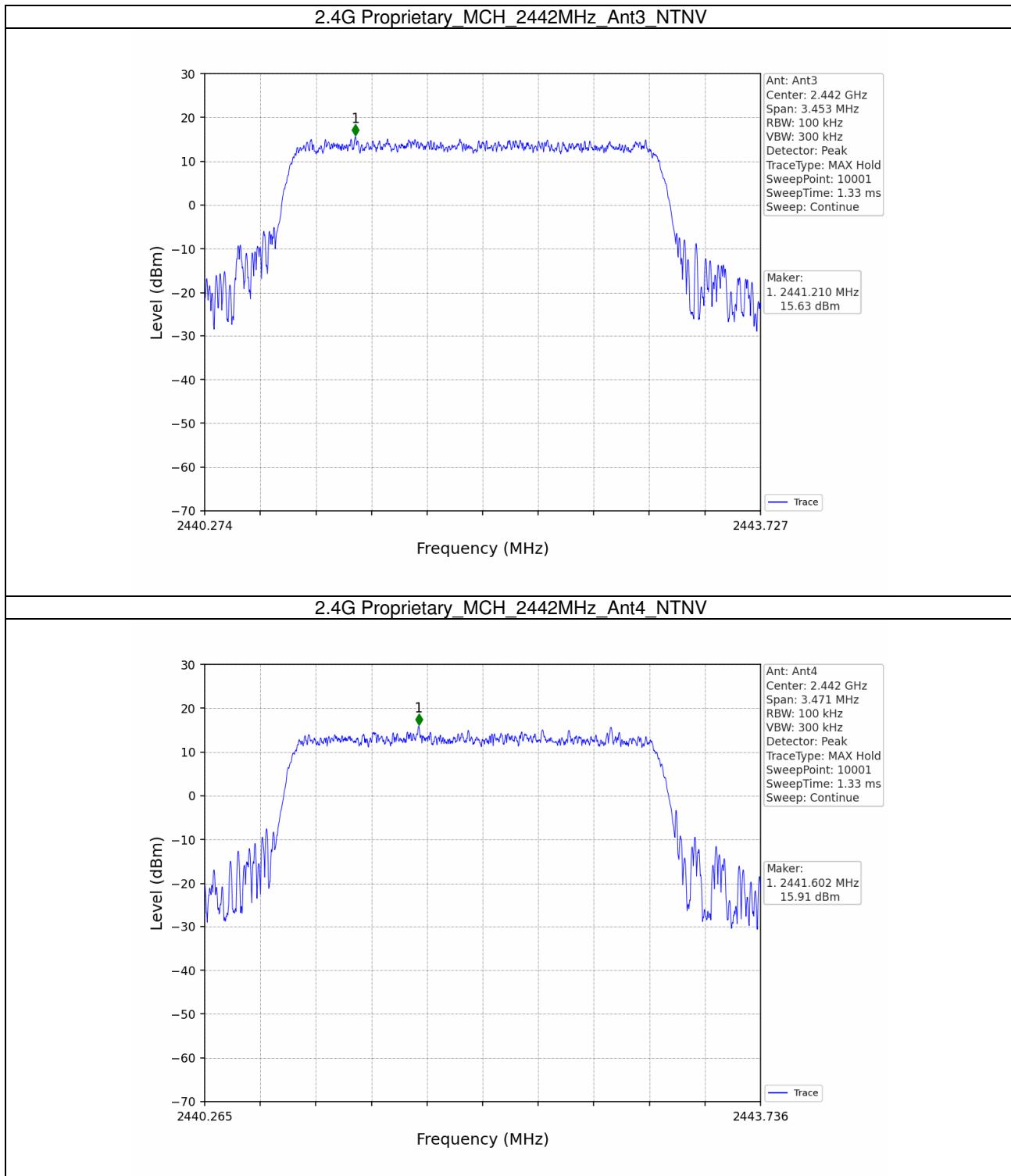


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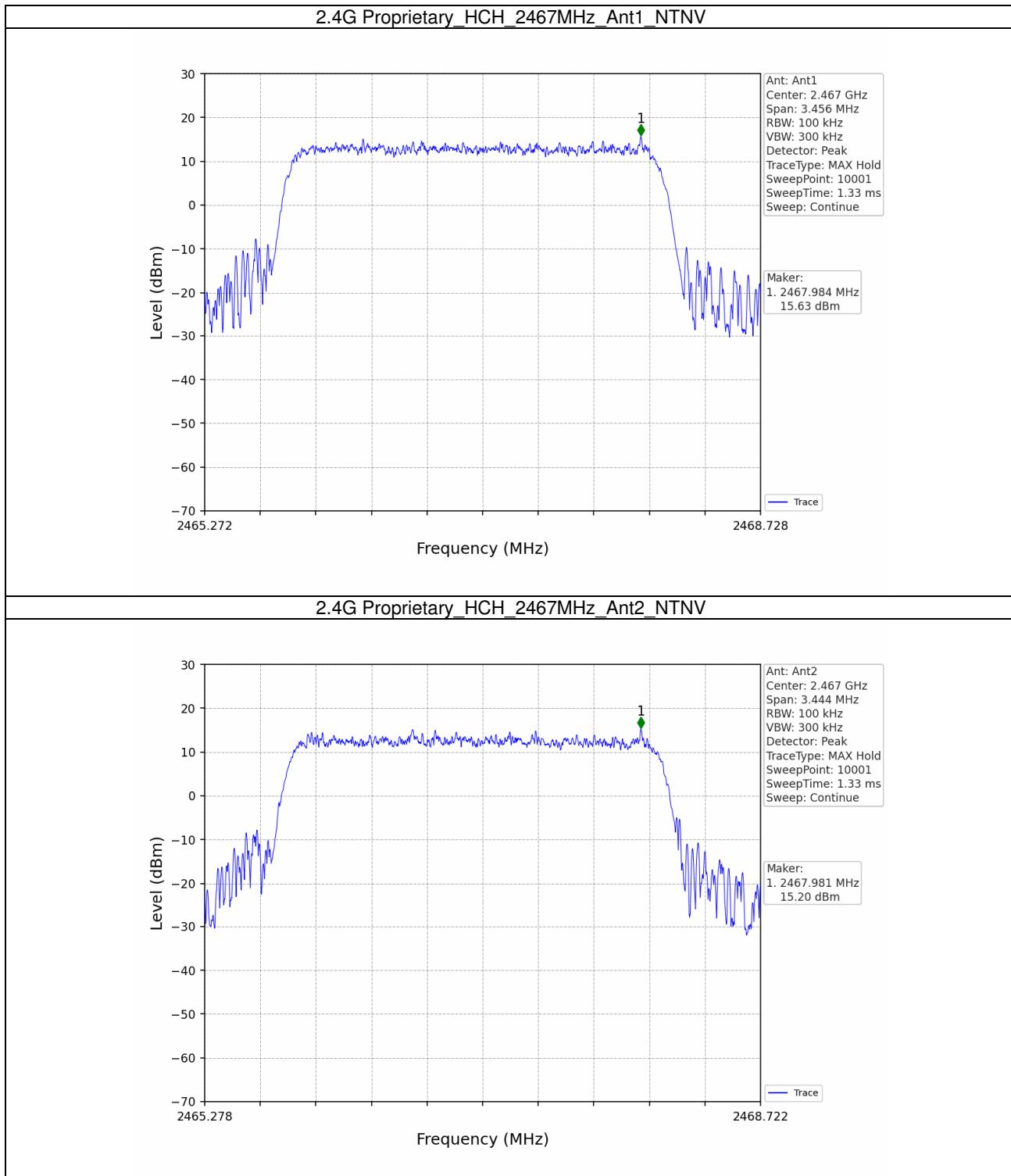


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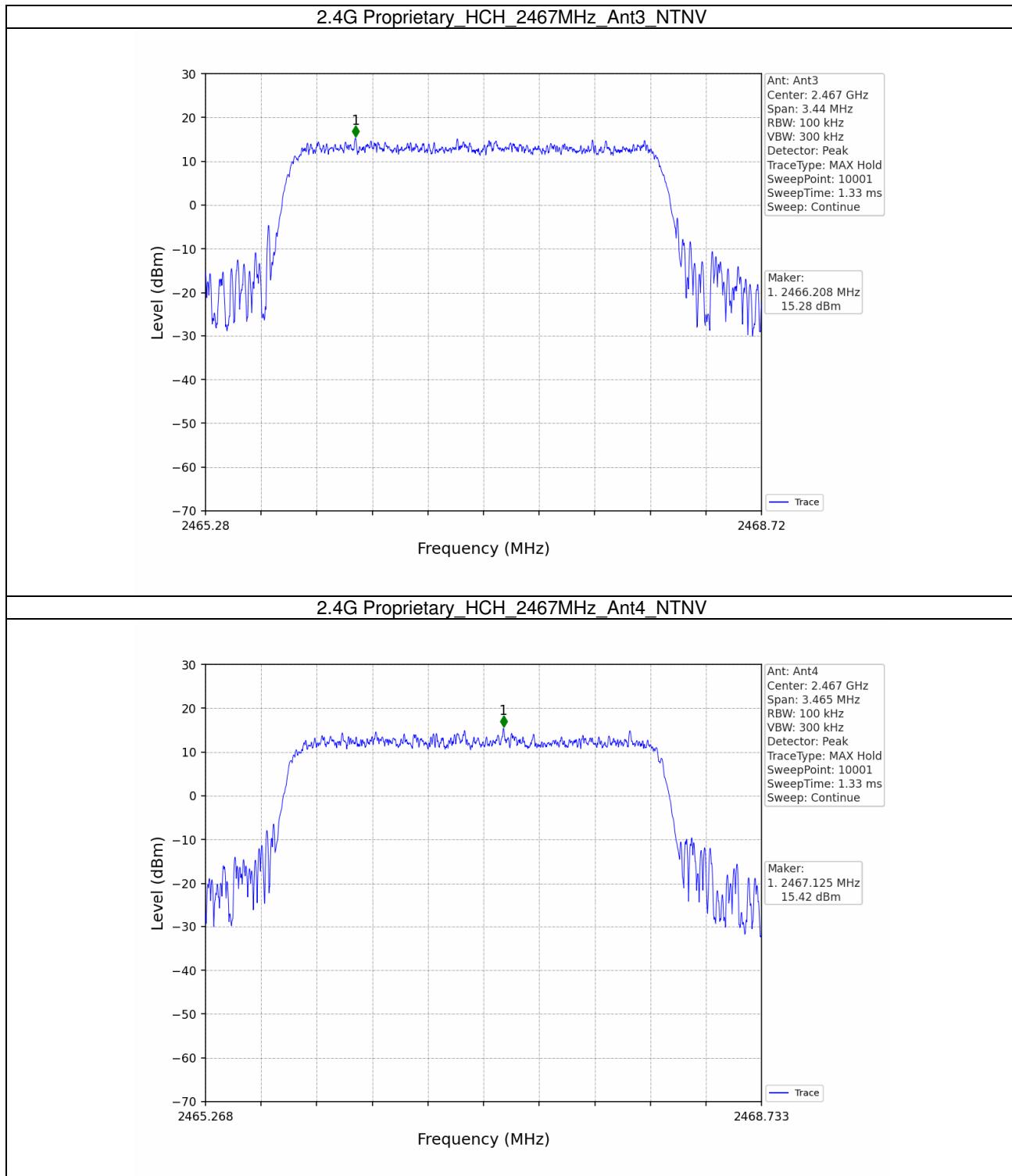


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5.2 CSE**5.2.1 Test Result**

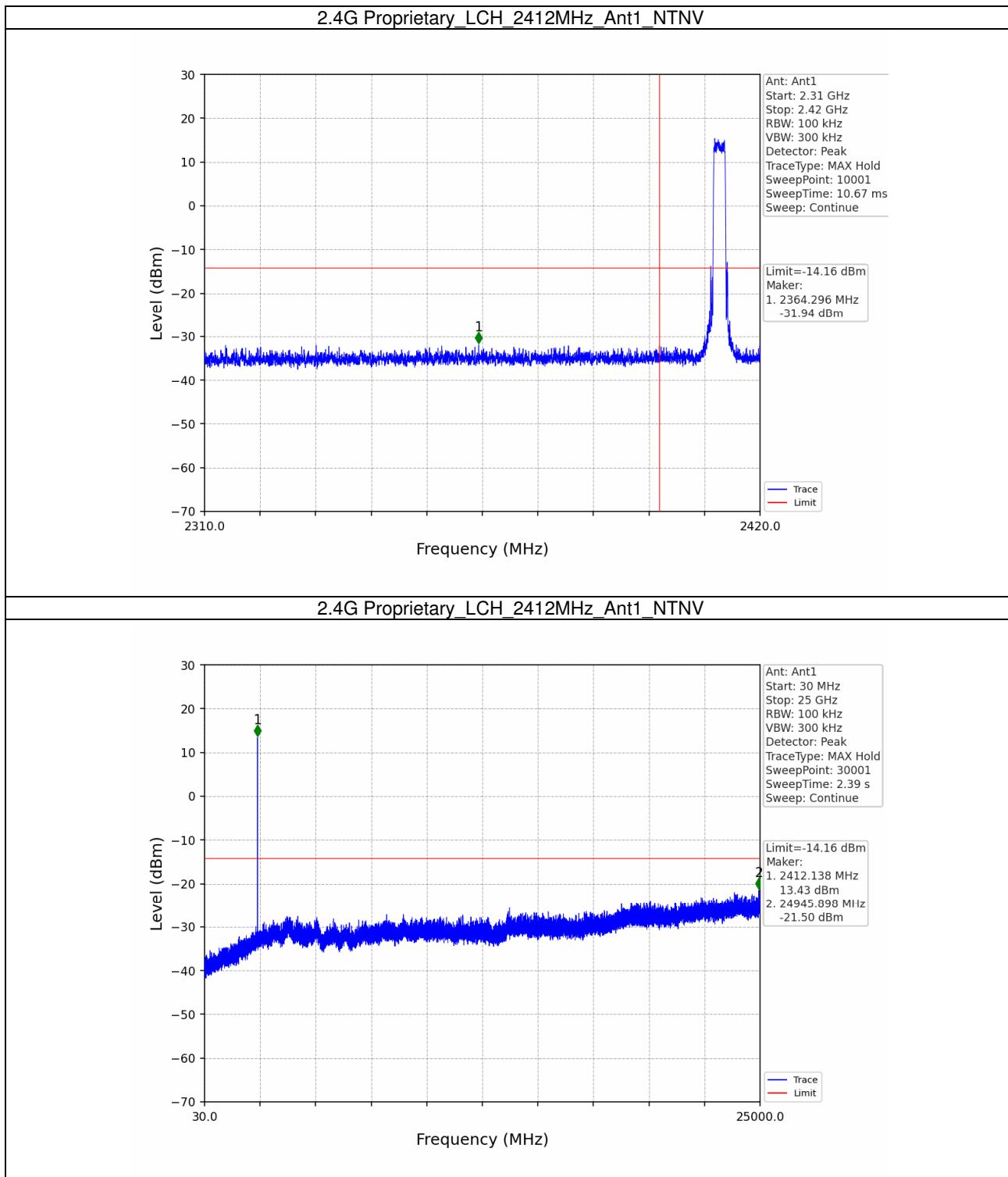
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
2.4G Proprietary	SISO	2412	1	15.84	-14.16	Pass
			2	15.97	-14.03	Pass
			3	16.92	-13.08	Pass
			4	16.45	-13.55	Pass
		2442	1	15.84	-14.16	Pass
			2	15.97	-14.03	Pass
			3	16.92	-13.08	Pass
			4	16.45	-13.55	Pass
		2467	1	15.84	-14.16	Pass
			2	15.97	-14.03	Pass
			3	16.92	-13.08	Pass
			4	16.45	-13.55	Pass

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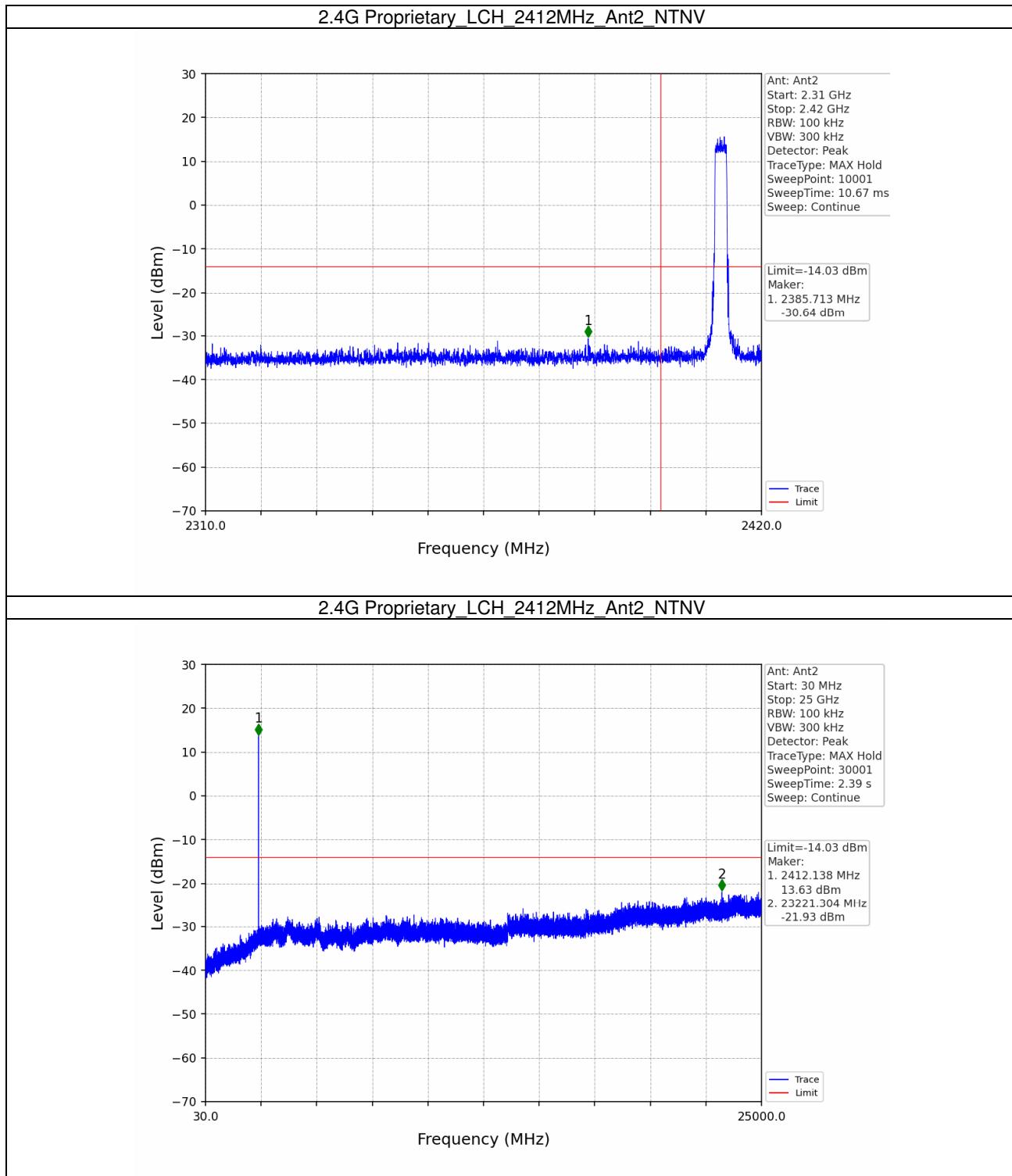


5.2.2 Test Graph



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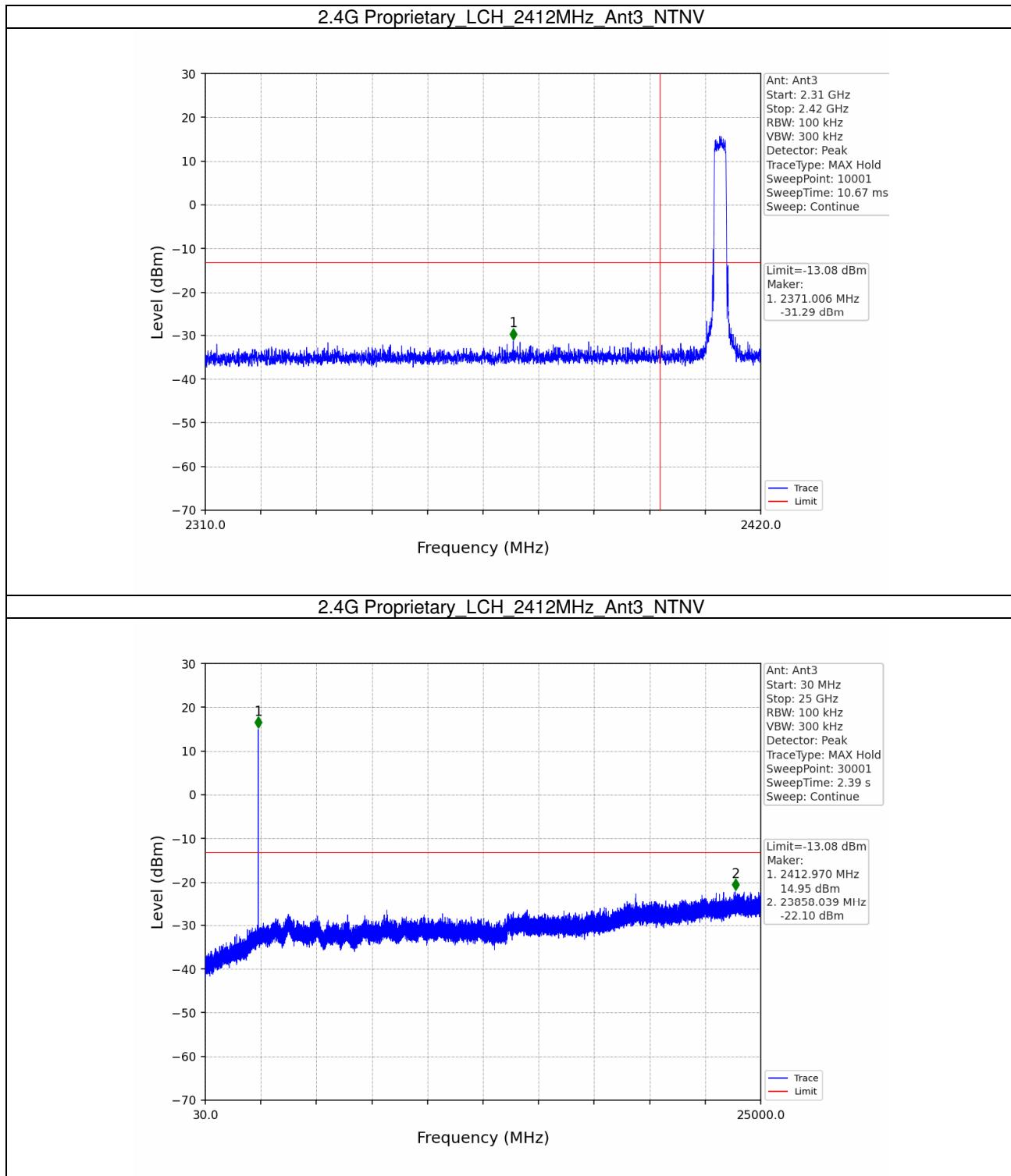


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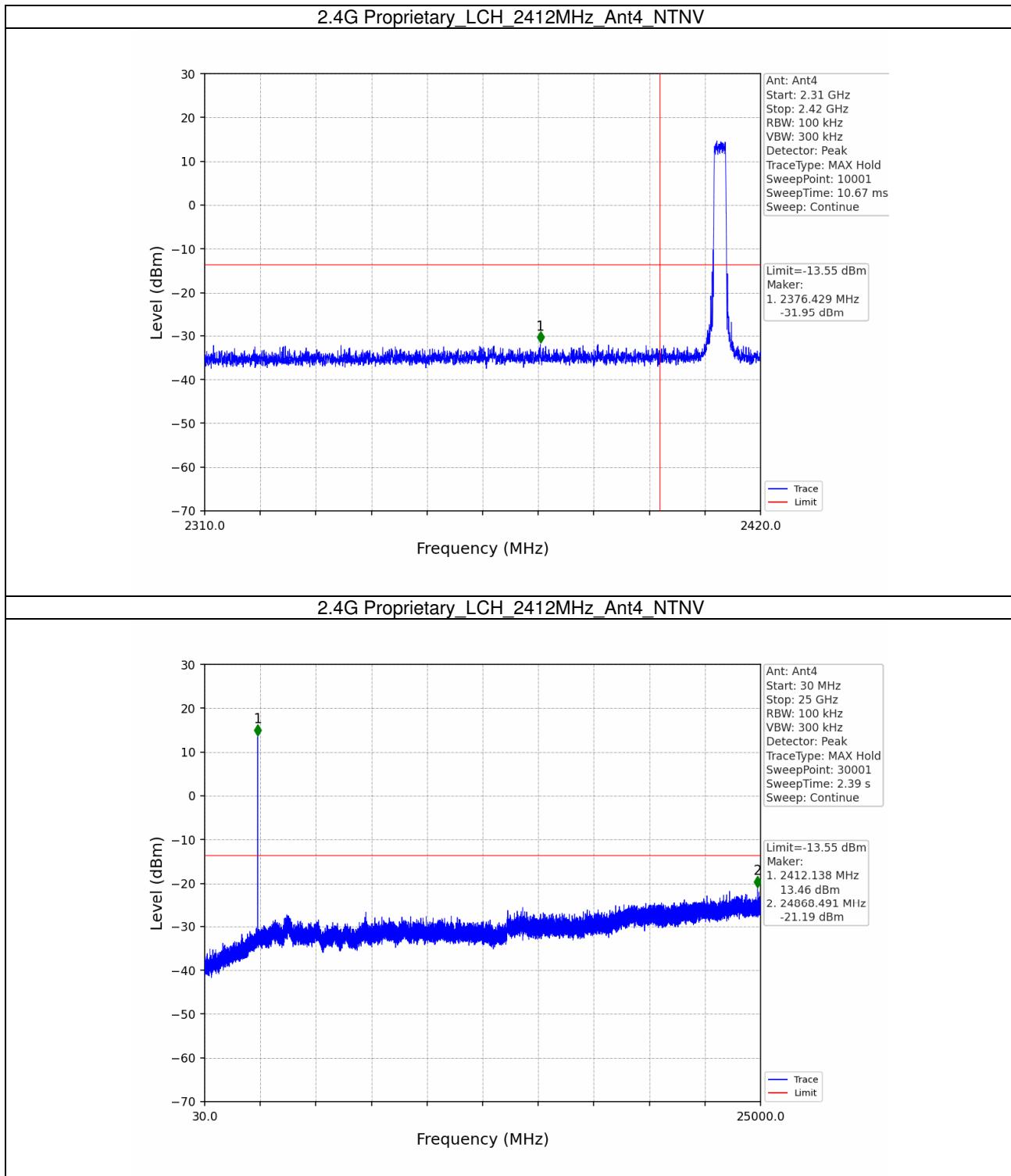


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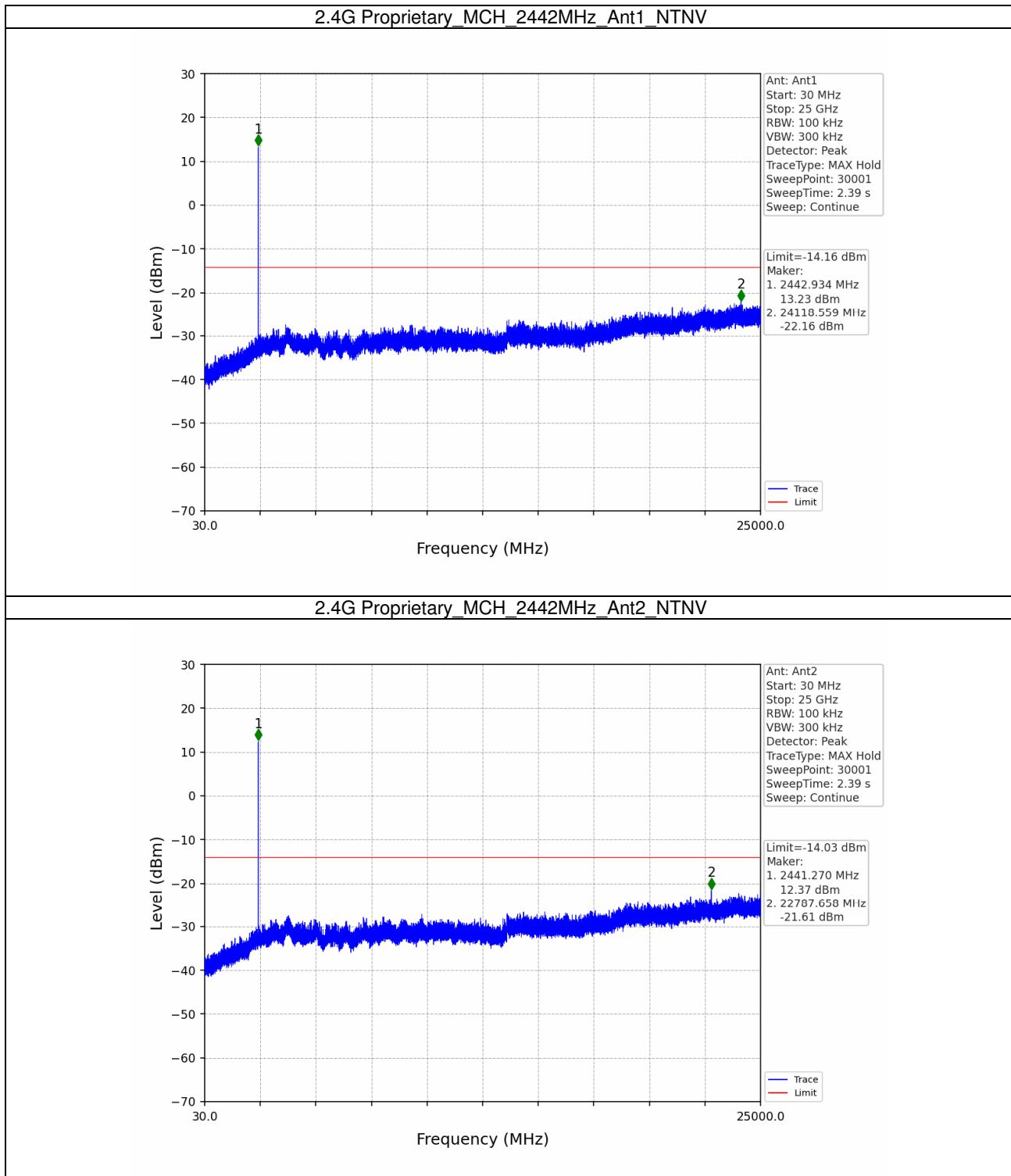


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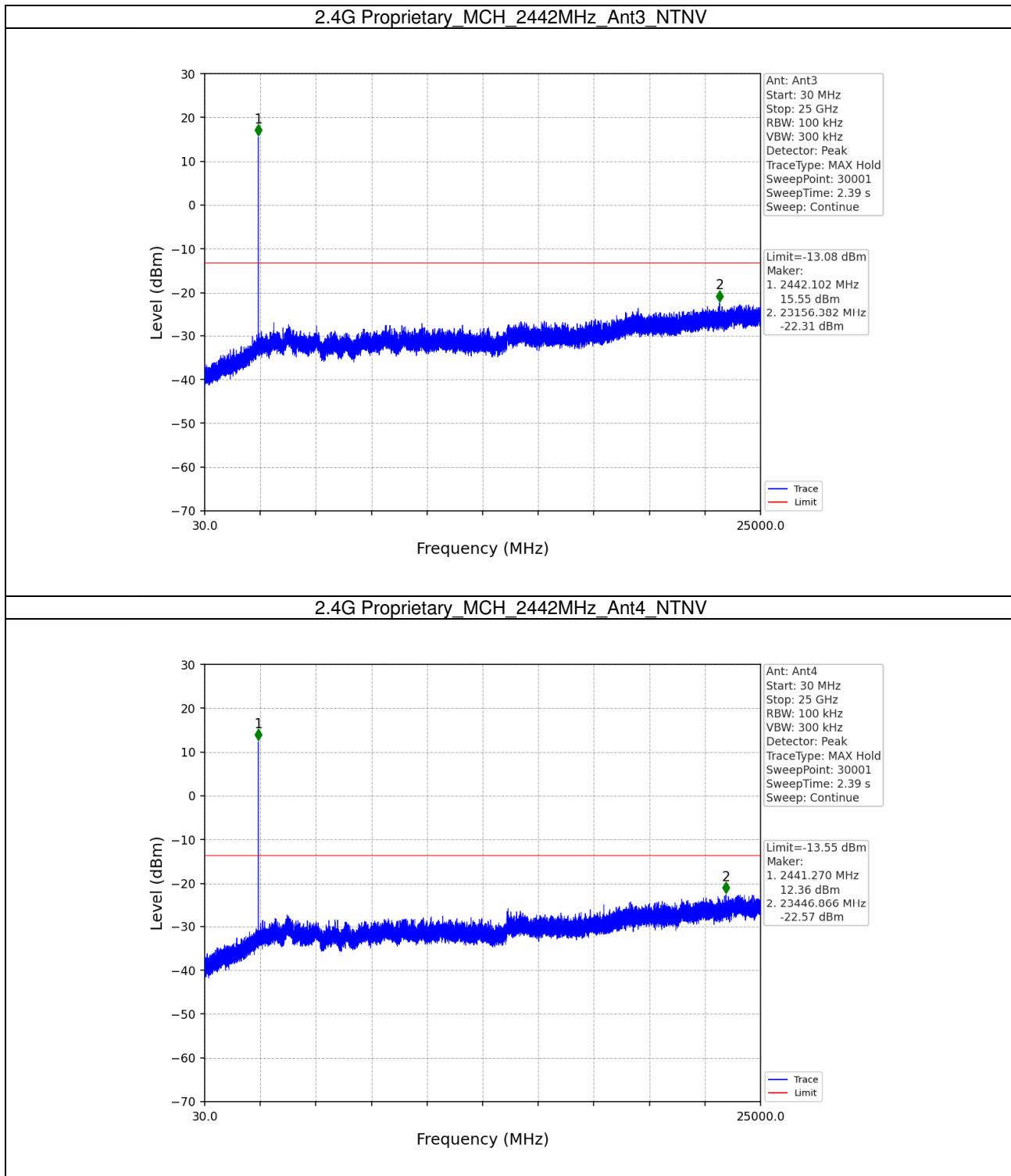


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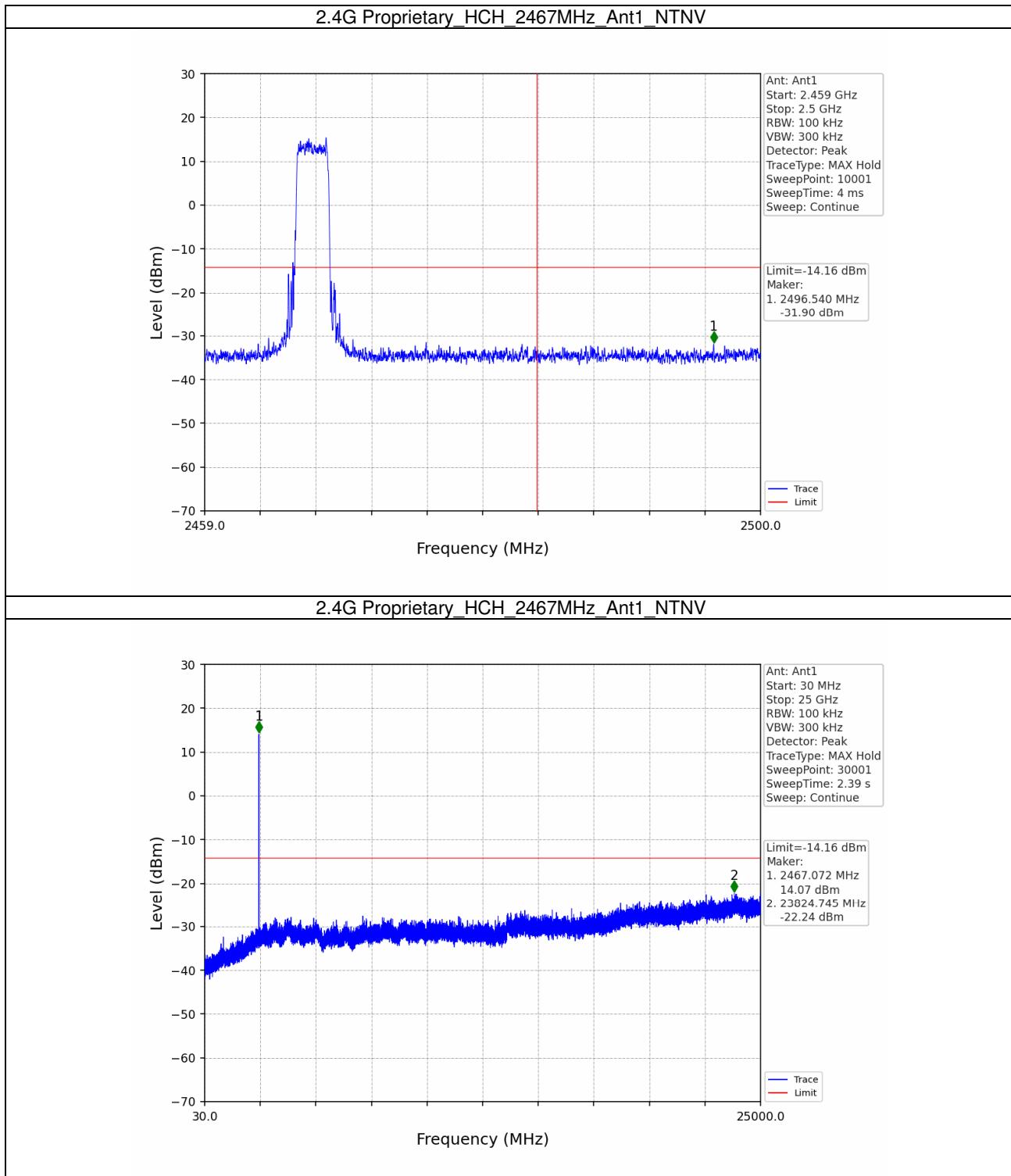


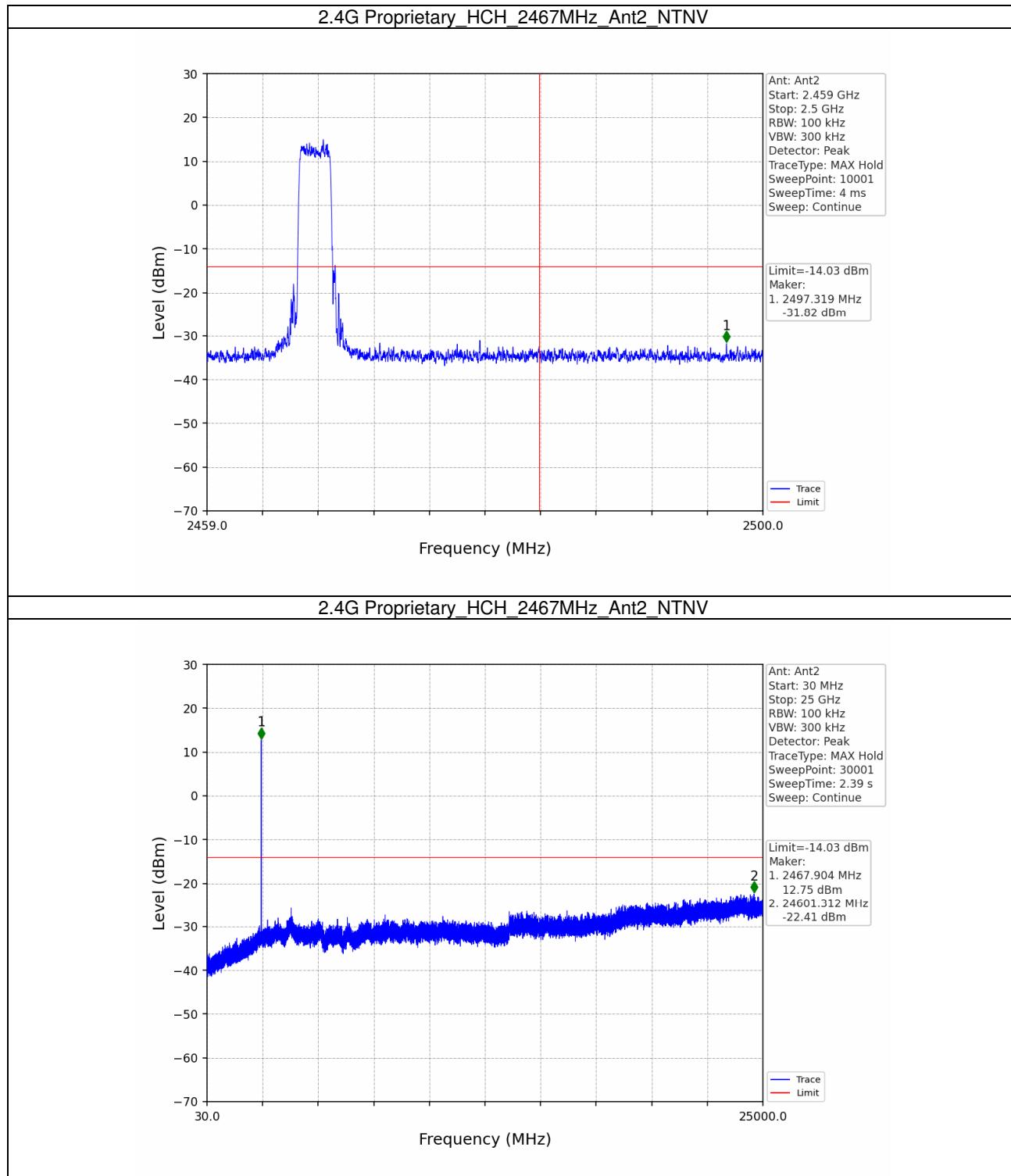
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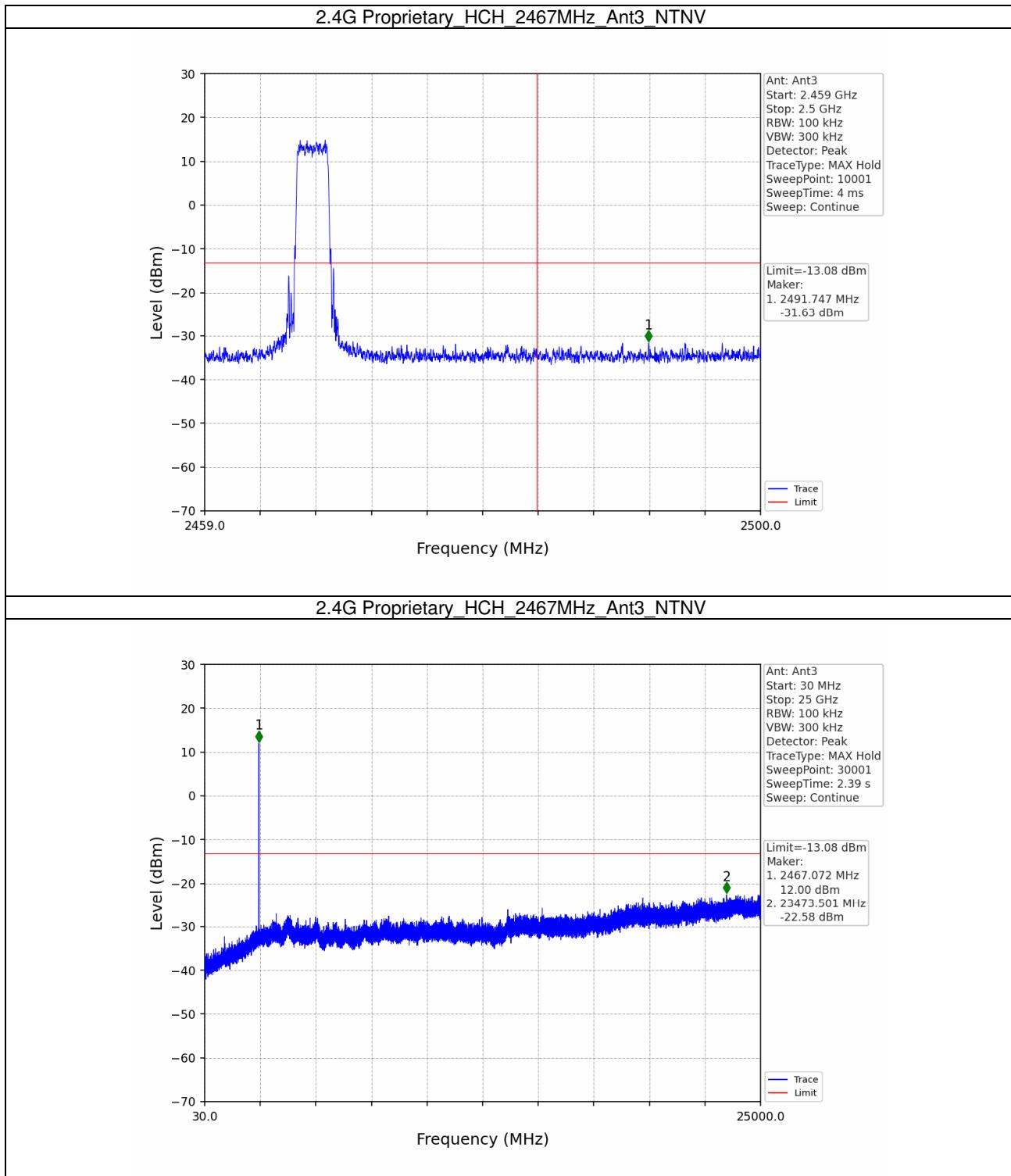


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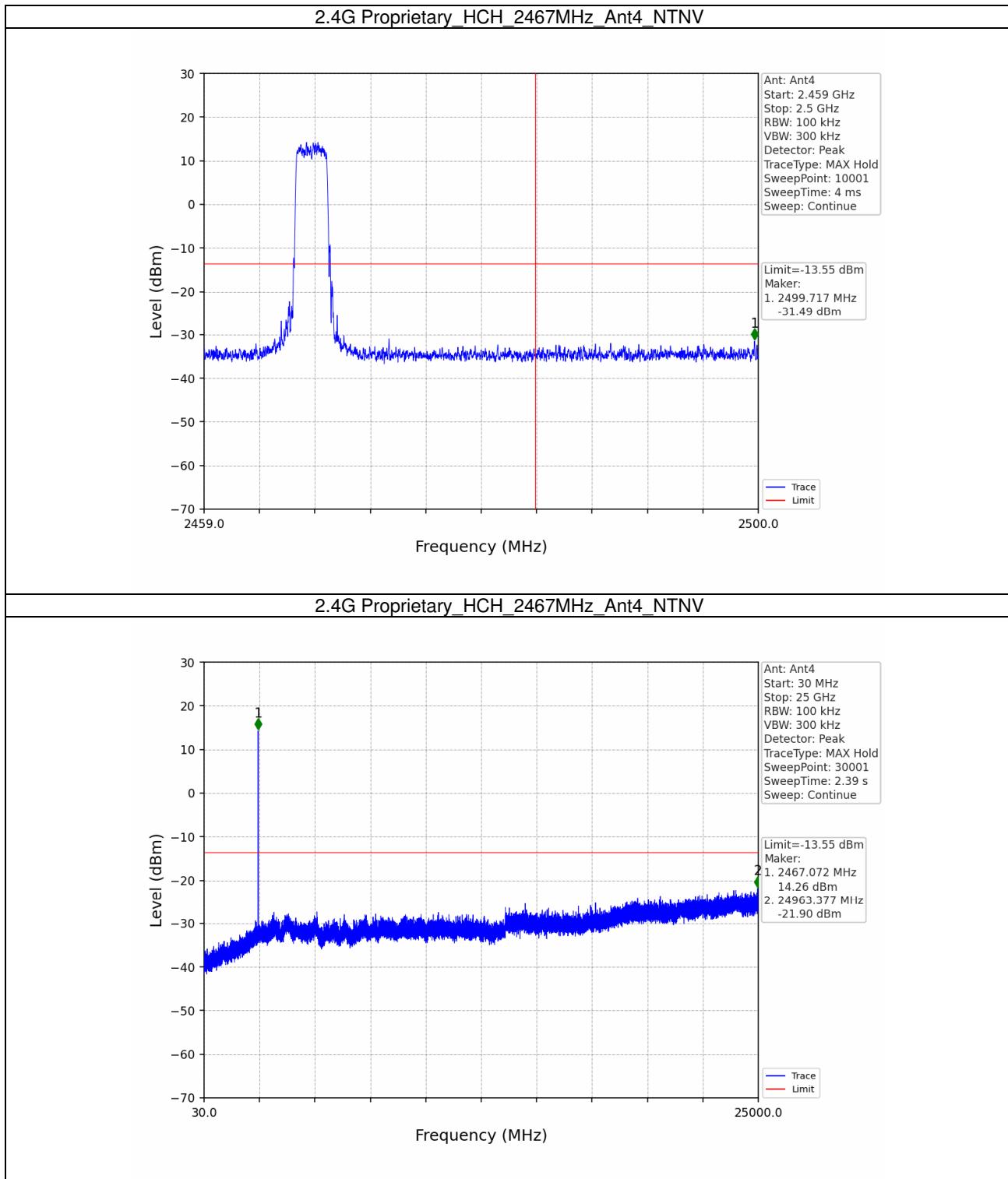


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