

ANNEX E TEST DATA

For

Project No.:	8235EU120807W
Client:	Cruise Cloud Technology (Shenzhen) Corporation Limited
Product Name:	Dashcam
Model No.:	MINI 2
FCC ID:	2A2Z5-MINI
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-11-18

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass



1. Duty Cycle

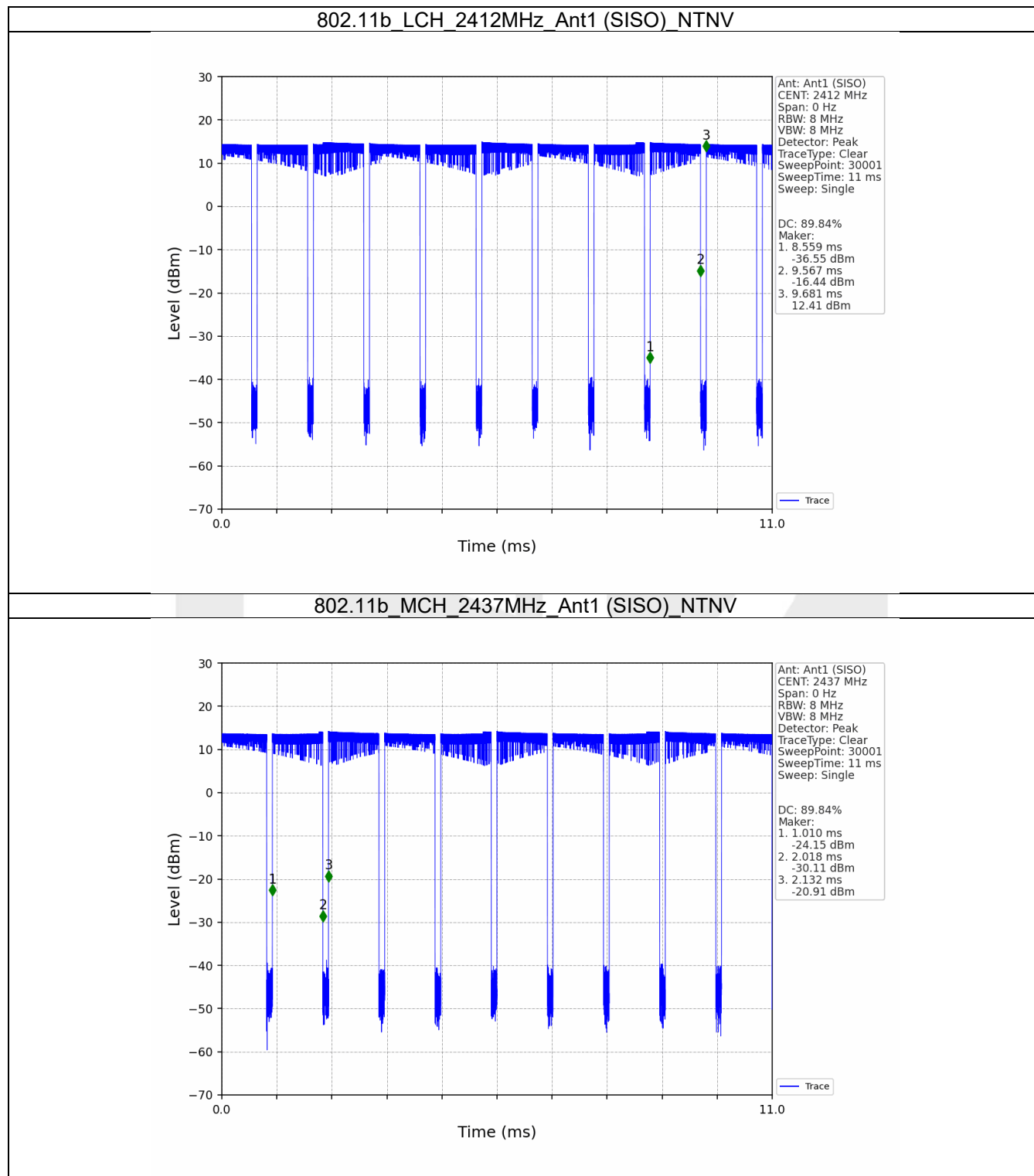
1.1 Test Result

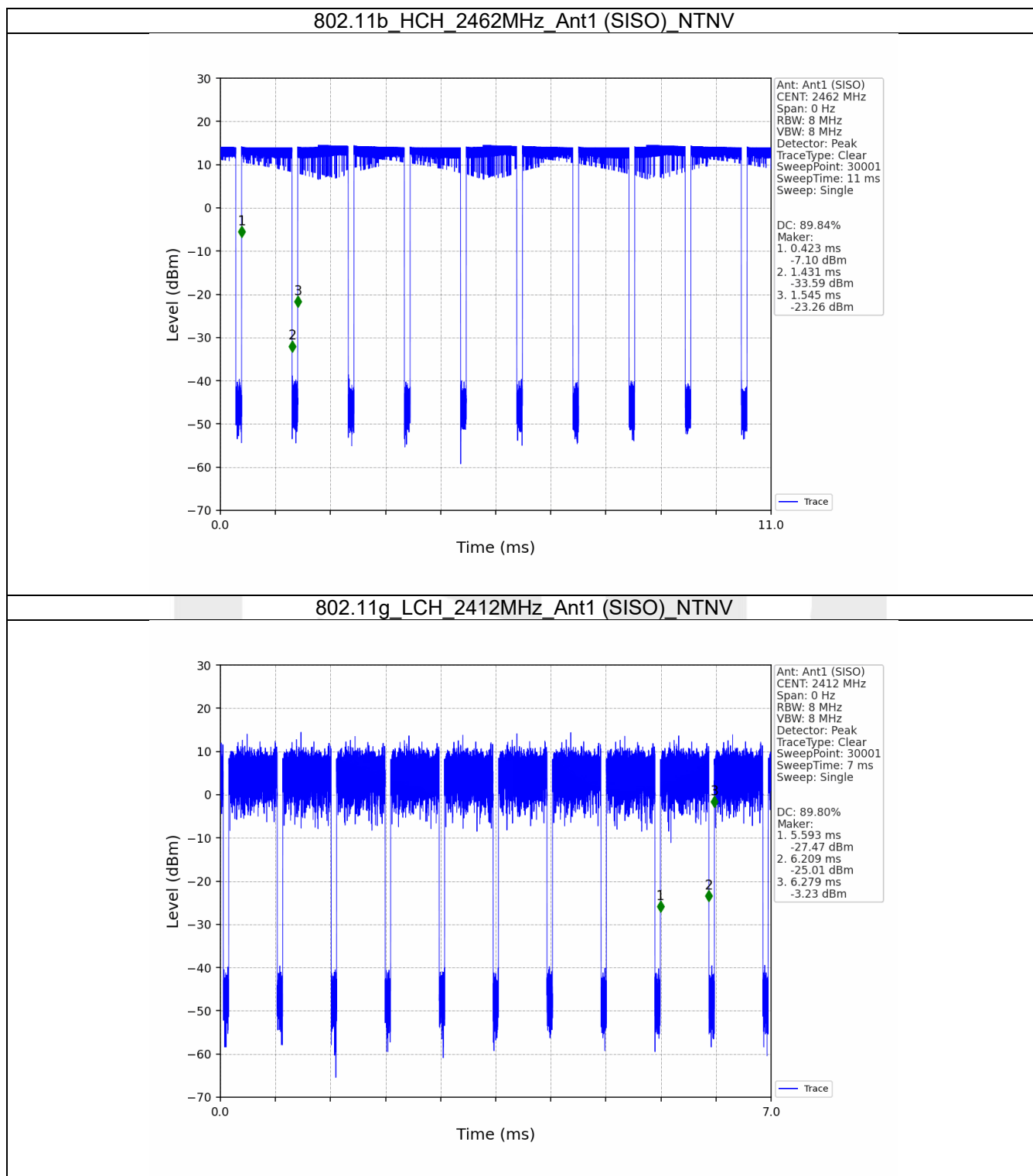
1.1.1 Ant1

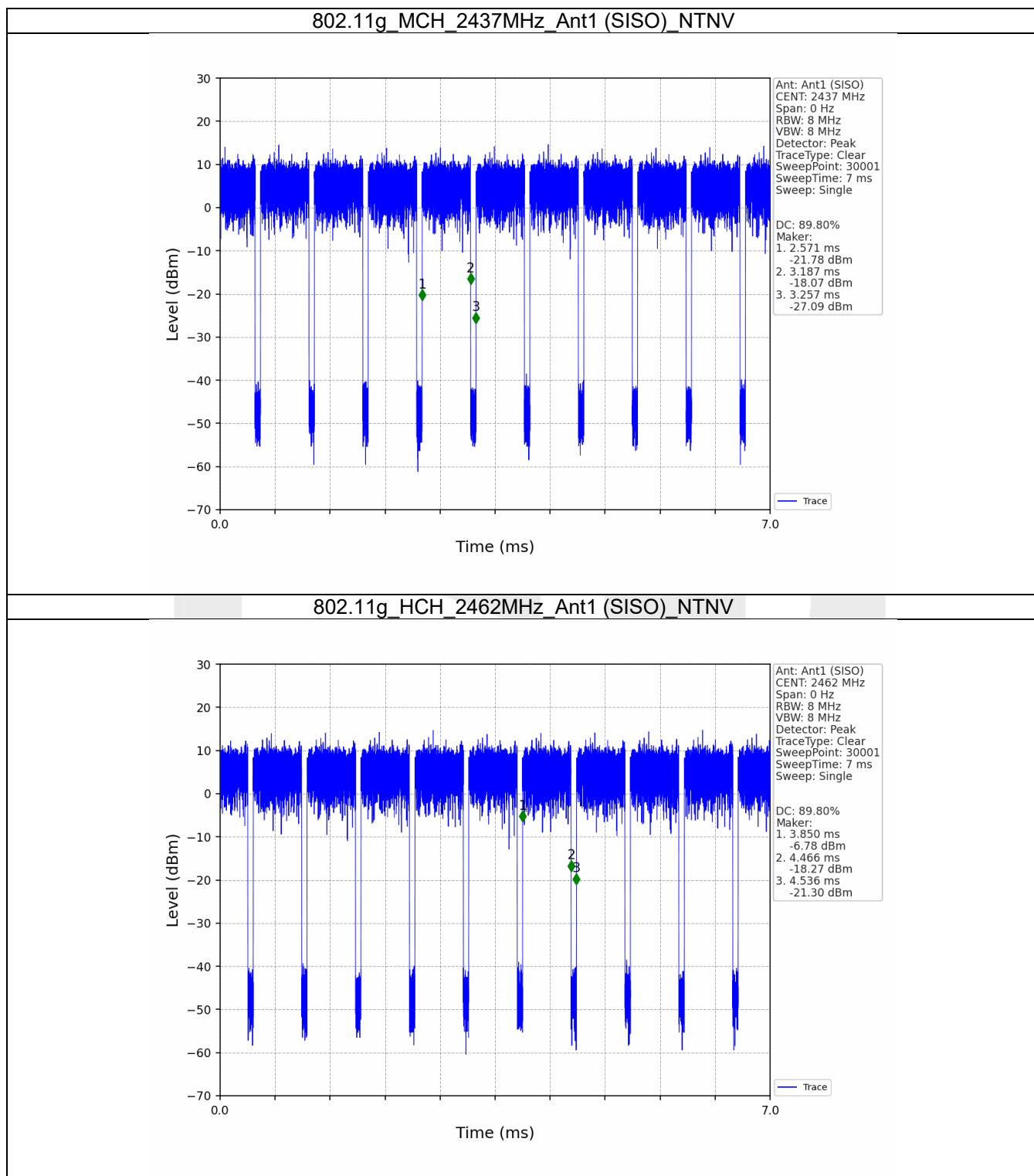
Ant1								
Mode	TX Type	Frequency (MHz)	RU	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	1.008	1.122	89.84	0.47	0.12
		2437	/	1.008	1.122	89.84	0.47	0.00
		2462	/	1.008	1.122	89.84	0.47	0.06
802.11g	SISO	2412	/	0.616	0.686	89.80	0.47	0.15
		2437	/	0.616	0.686	89.80	0.47	0.16
		2462	/	0.616	0.686	89.80	0.47	0.16
802.11n (HT20)	SISO	2412	/	0.613	0.683	89.75	0.47	0.15
		2437	/	0.612	0.683	89.60	0.48	0.16
		2462	/	0.613	0.683	89.75	0.47	0.15
802.11ax (HEW20)	SISO	2412	SU	1.021	1.121	91.08	0.41	0.07
		2437	SU	1.021	1.120	91.16	0.40	0.07
		2462	SU	1.021	1.121	91.08	0.41	0.07

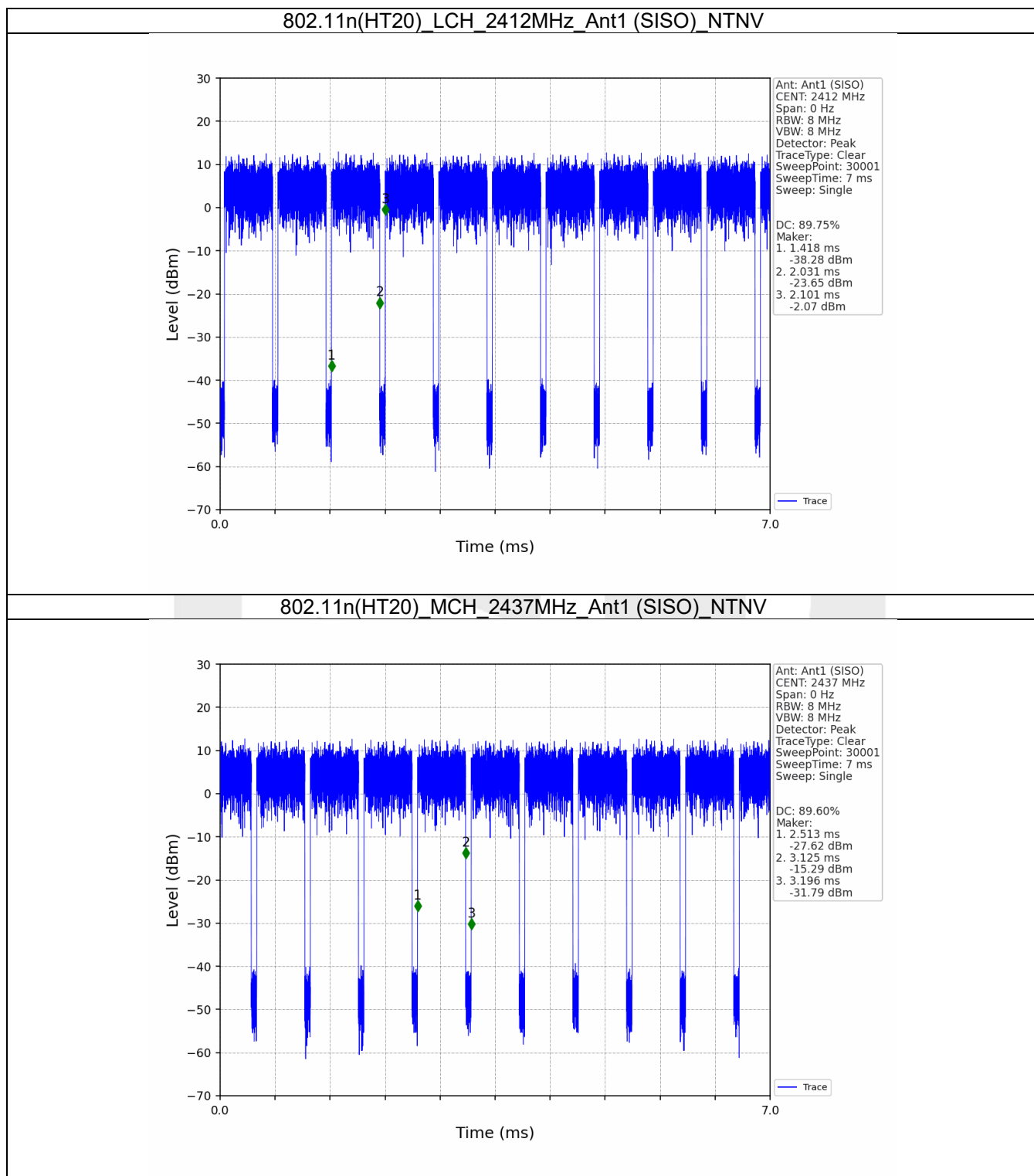
1.2 Test Graph

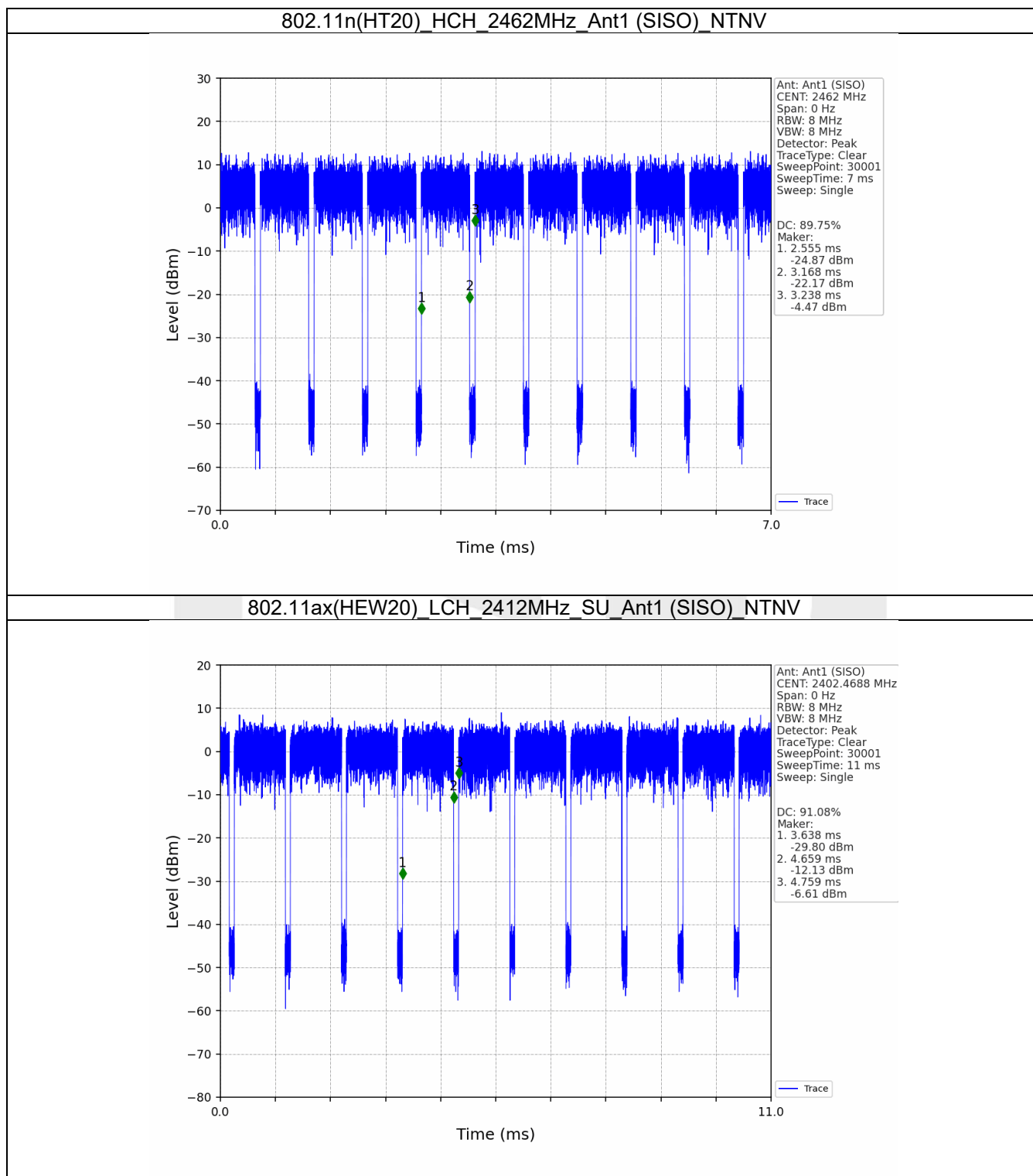
1.2.1 Ant1

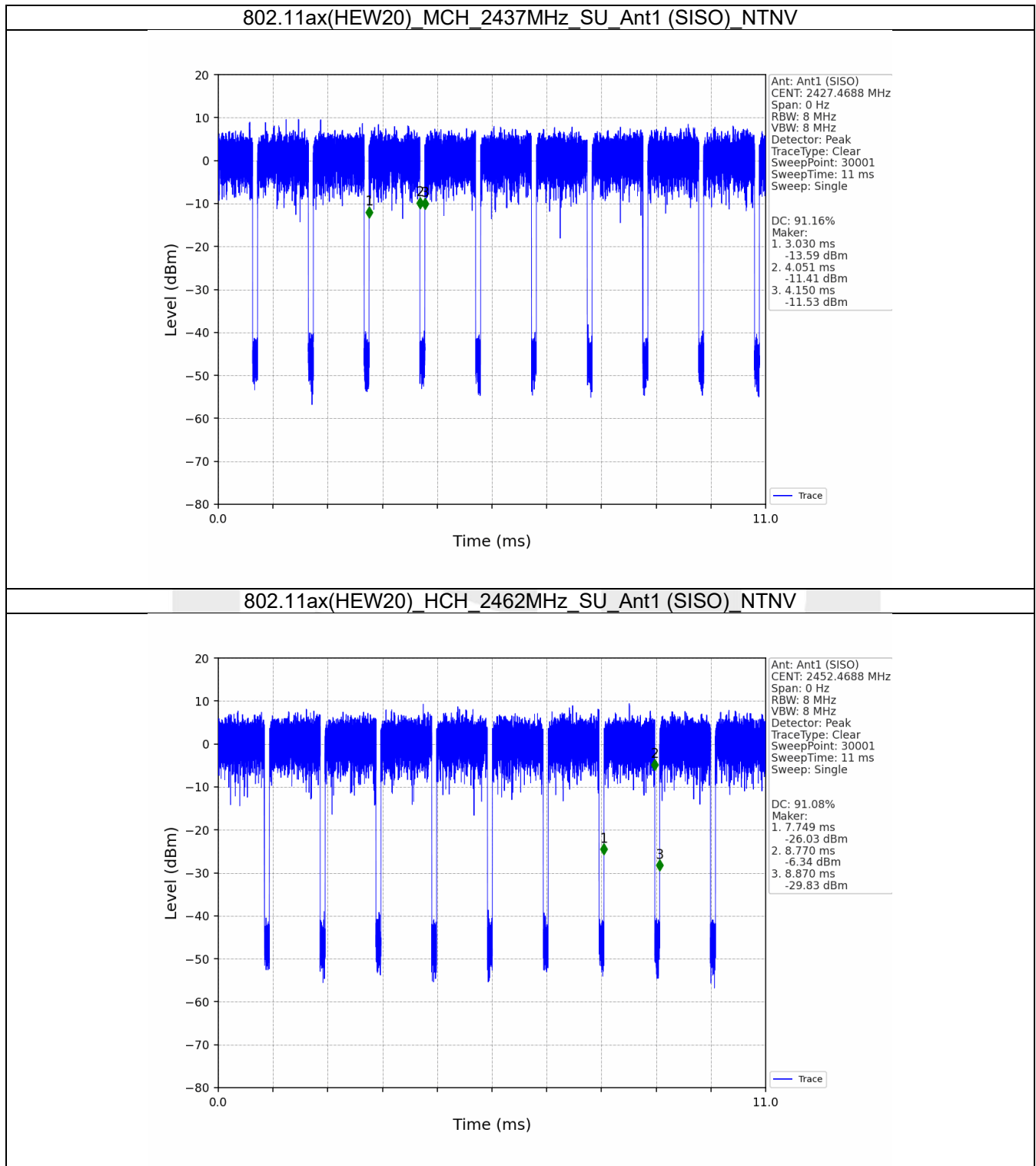












2. Bandwidth

2.1 Test Result

2.1.1 OBW

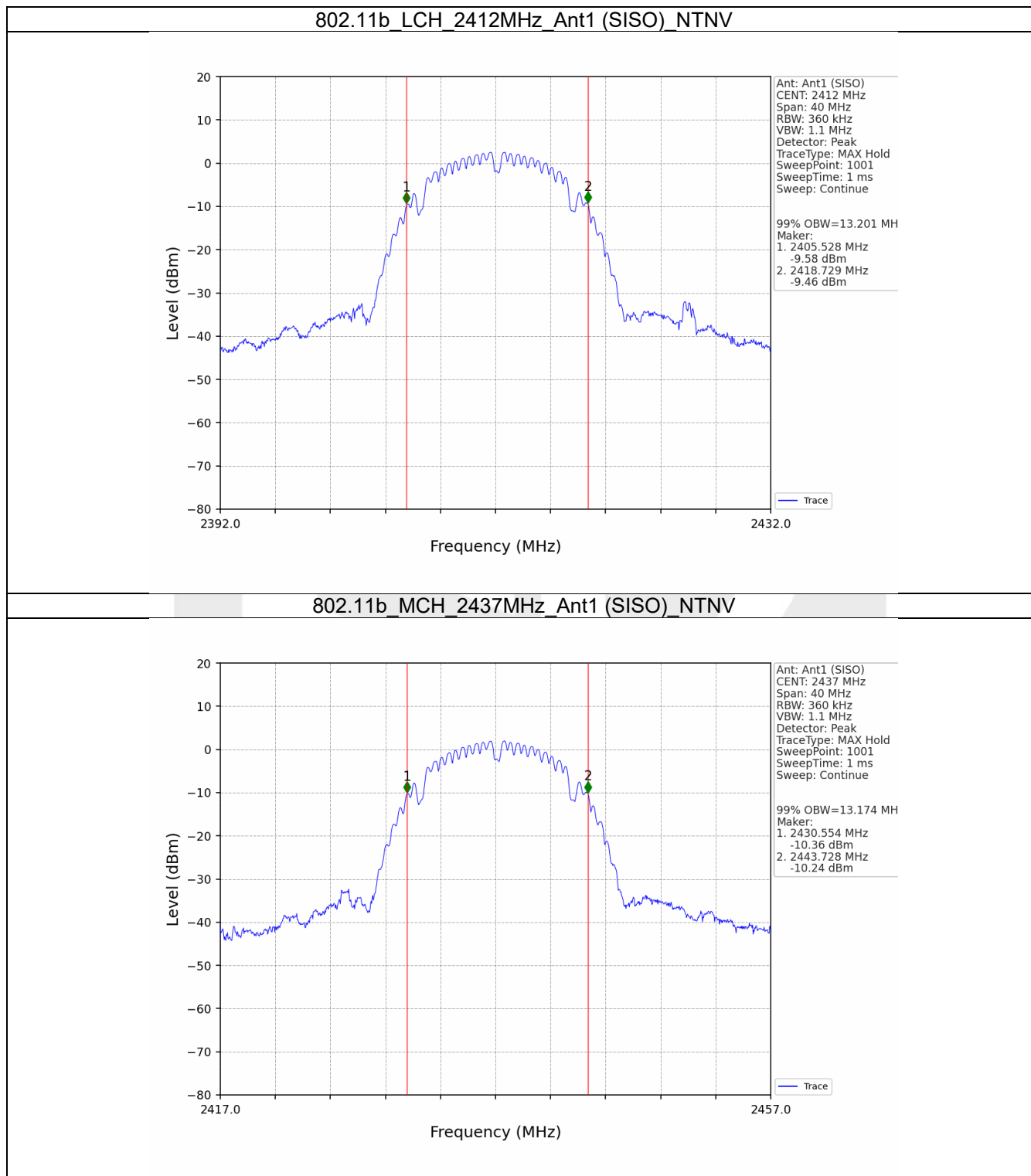
Mode	TX Type	Frequency (MHz)	RU	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
802.11b	SISO	2412	/	1	13.201	/	Pass
		2437	/	1	13.174	/	Pass
		2462	/	1	13.154	/	Pass
802.11g	SISO	2412	/	1	18.493	/	Pass
		2437	/	1	18.407	/	Pass
		2462	/	1	18.386	/	Pass
802.11n (HT20)	SISO	2412	/	1	19.199	/	Pass
		2437	/	1	19.158	/	Pass
		2462	/	1	19.111	/	Pass
802.11ax (HEW20)	SISO	2412	SU	1	19.209	/	Pass
		2437	SU	1	19.163	/	Pass
		2462	SU	1	19.121	/	Pass

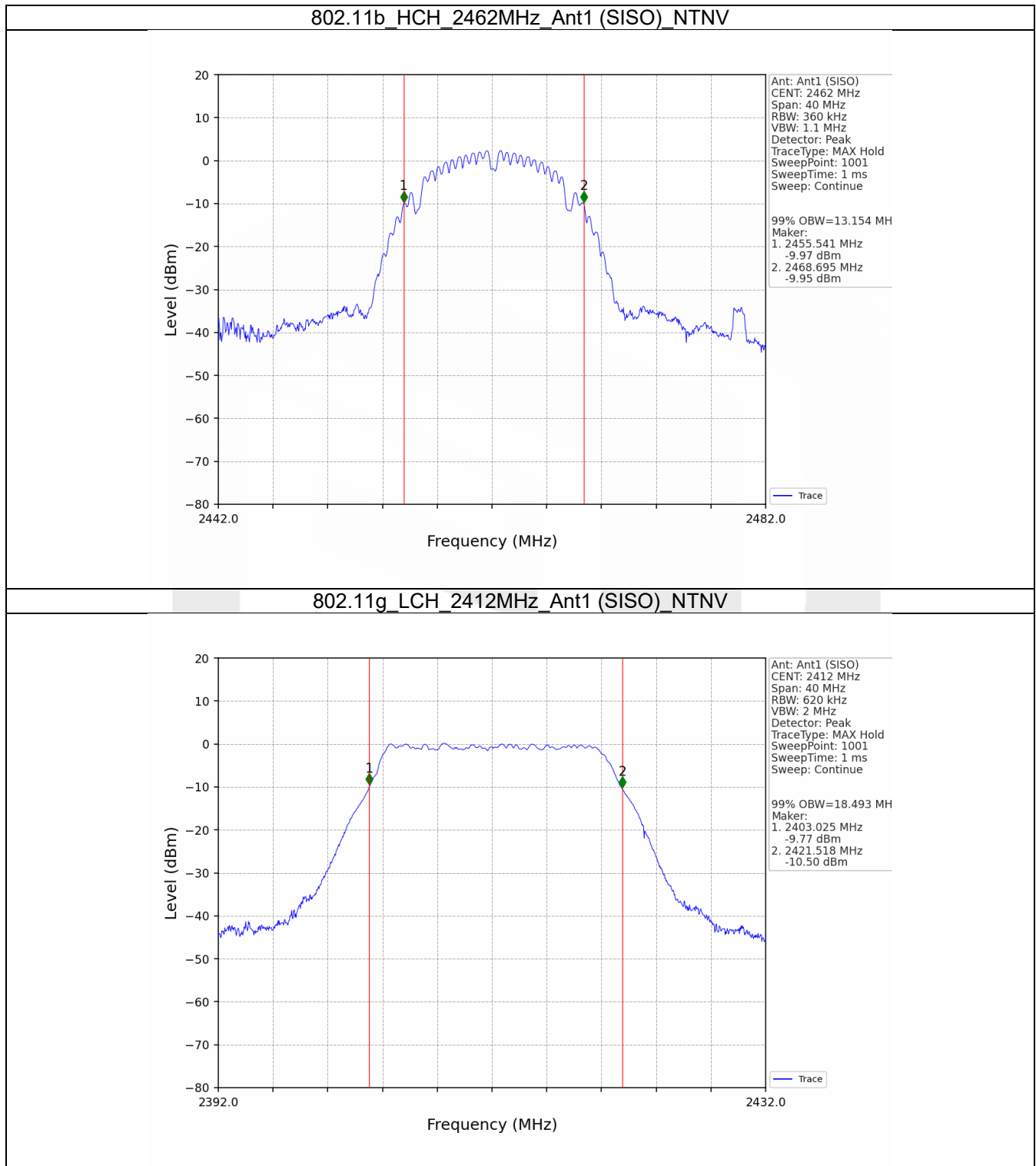
2.1.2 6dB BW

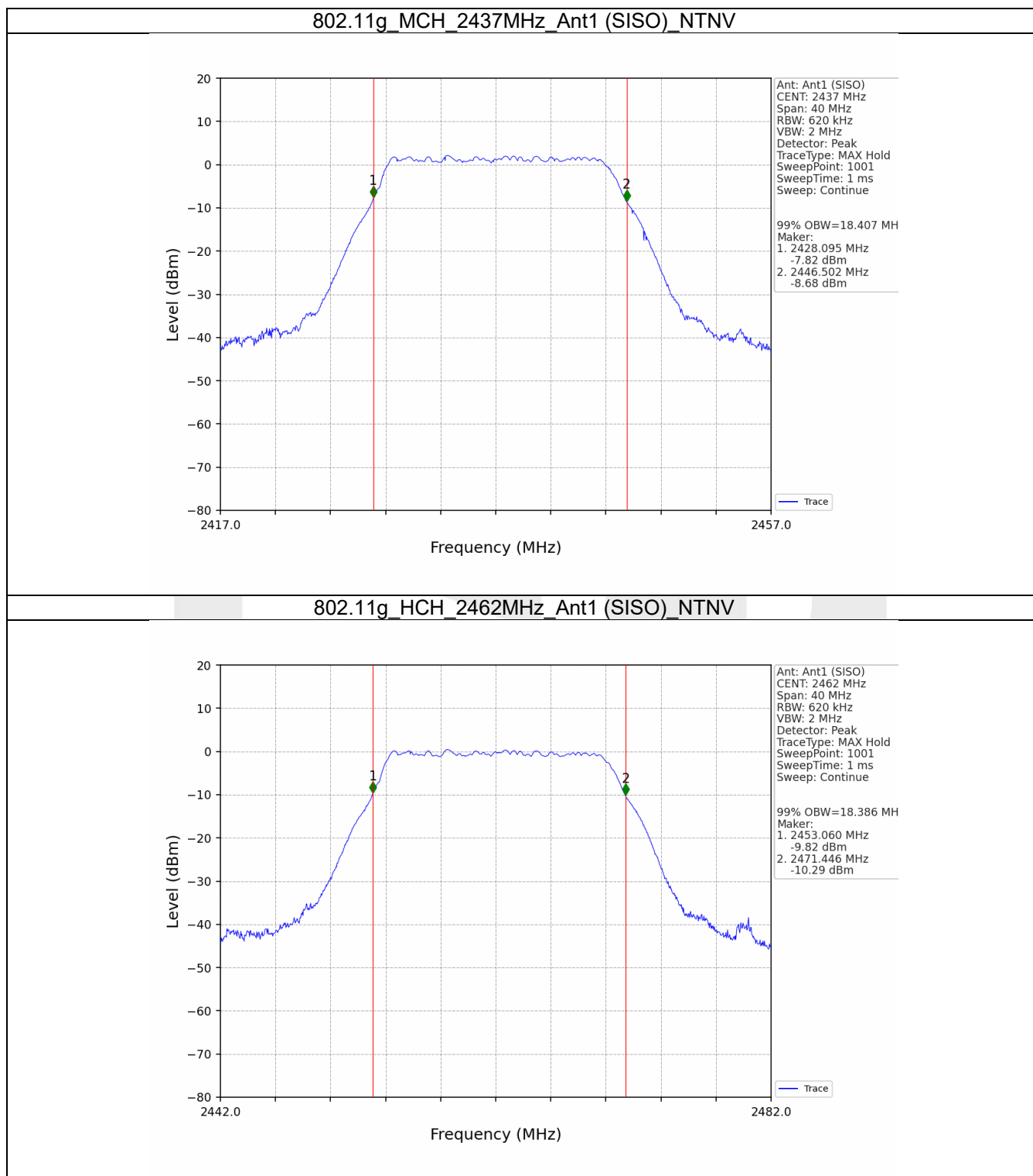
Mode	TX Type	Frequency (MHz)	RU	ANT	6dB Bandwidth (MHz)		Verdict
					Result	Limit	
802.11b	SISO	2412	/	1	10.085	≥ 0.5	Pass
		2437	/	1	9.707	≥ 0.5	Pass
		2462	/	1	9.365	≥ 0.5	Pass
802.11g	SISO	2412	/	1	17.182	≥ 0.5	Pass
		2437	/	1	17.165	≥ 0.5	Pass
		2462	/	1	17.074	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	1	18.357	≥ 0.5	Pass
		2437	/	1	18.262	≥ 0.5	Pass
		2462	/	1	18.139	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	1	18.703	≥ 0.5	Pass
		2437	SU	1	18.628	≥ 0.5	Pass
		2462	SU	1	18.581	≥ 0.5	Pass

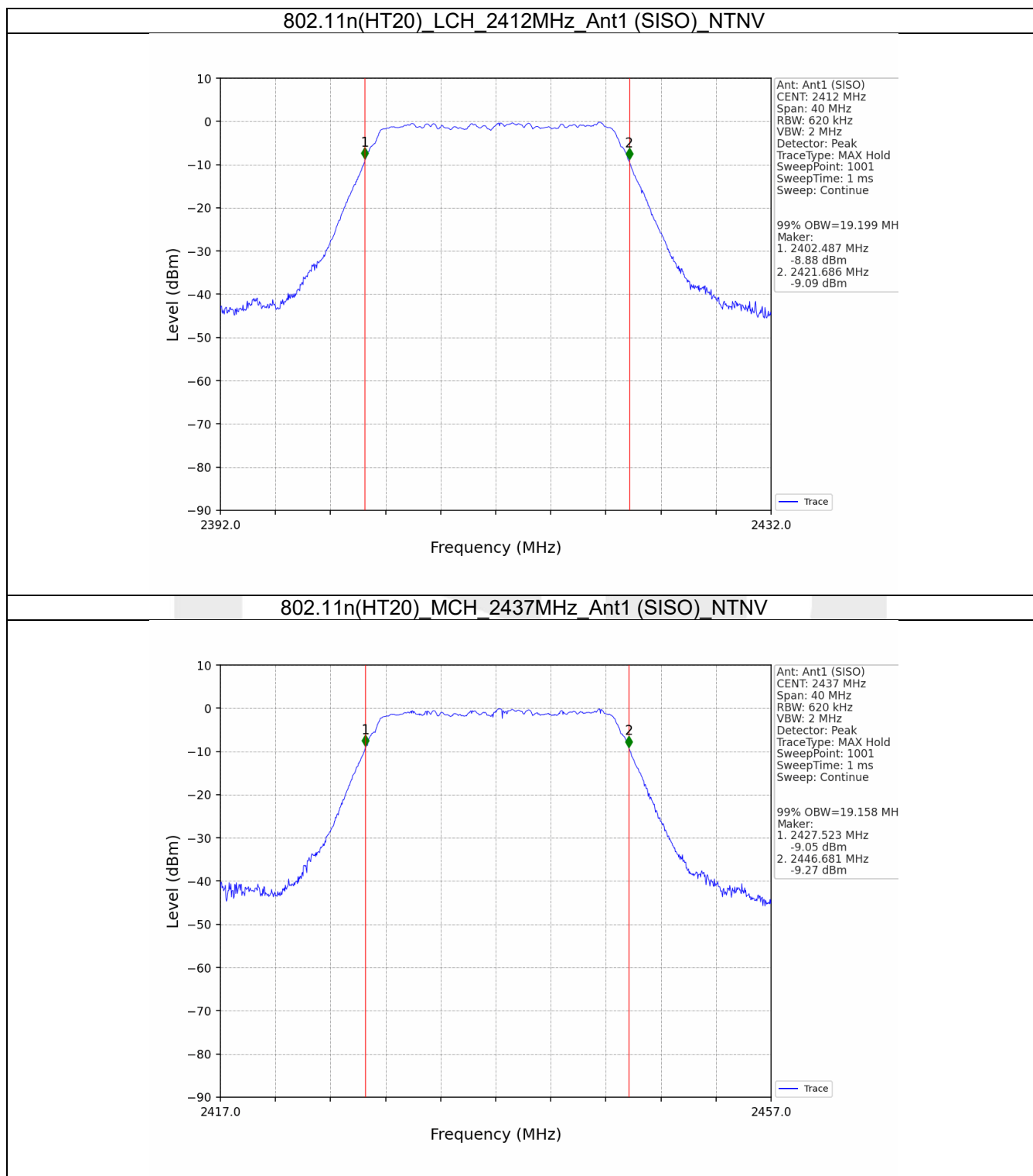
2.2 Test Graph

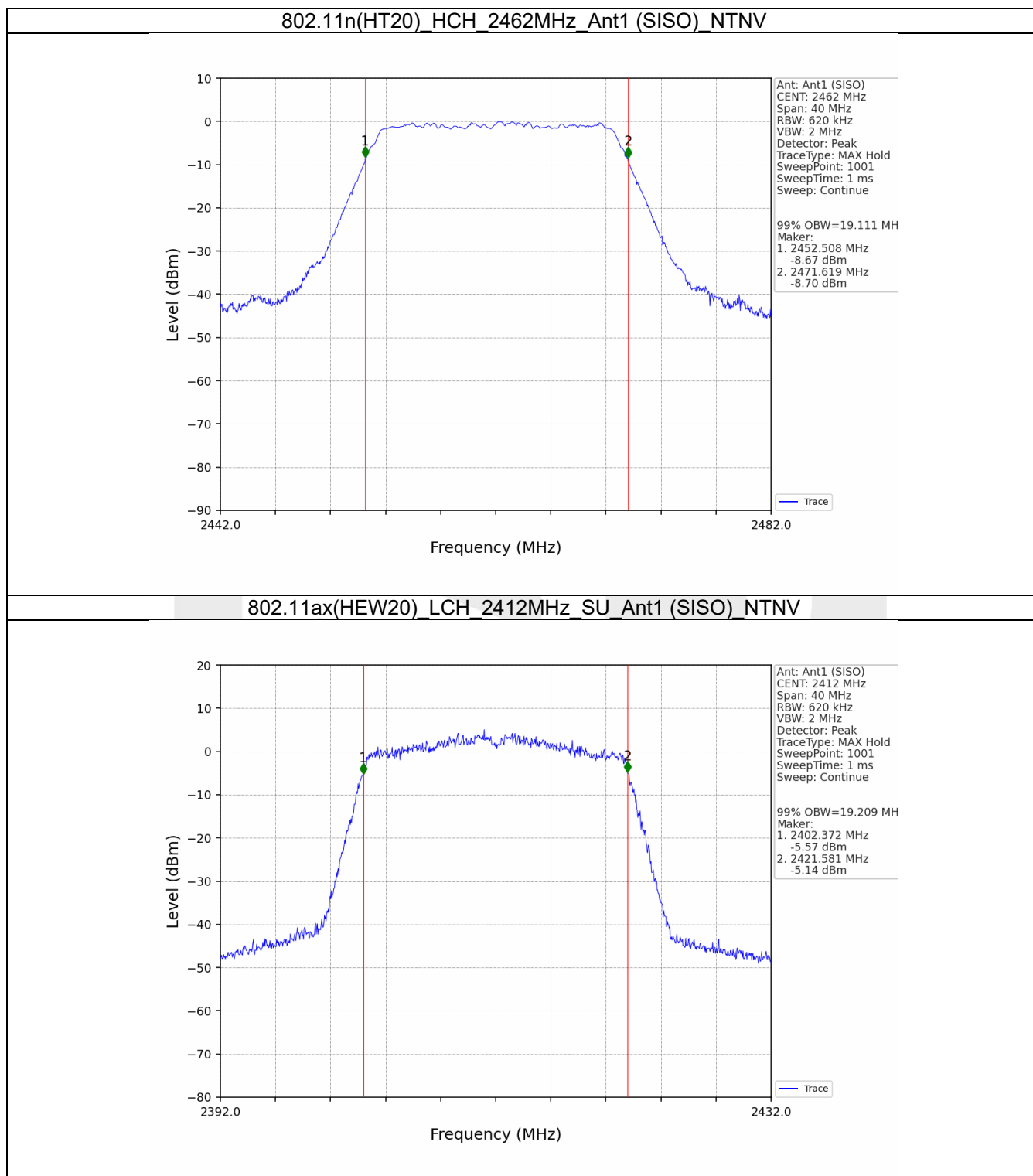
2.2.1 OBW

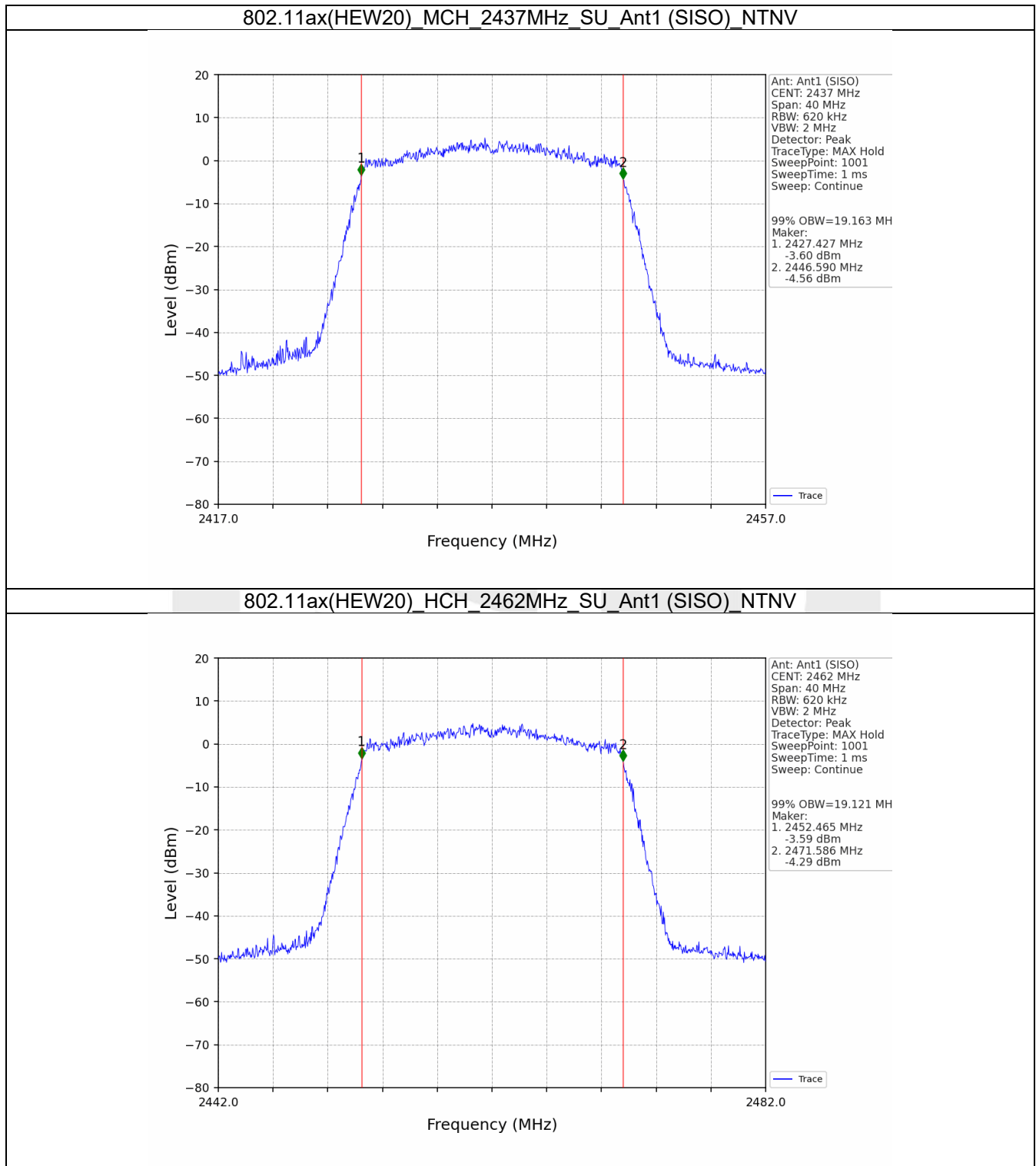




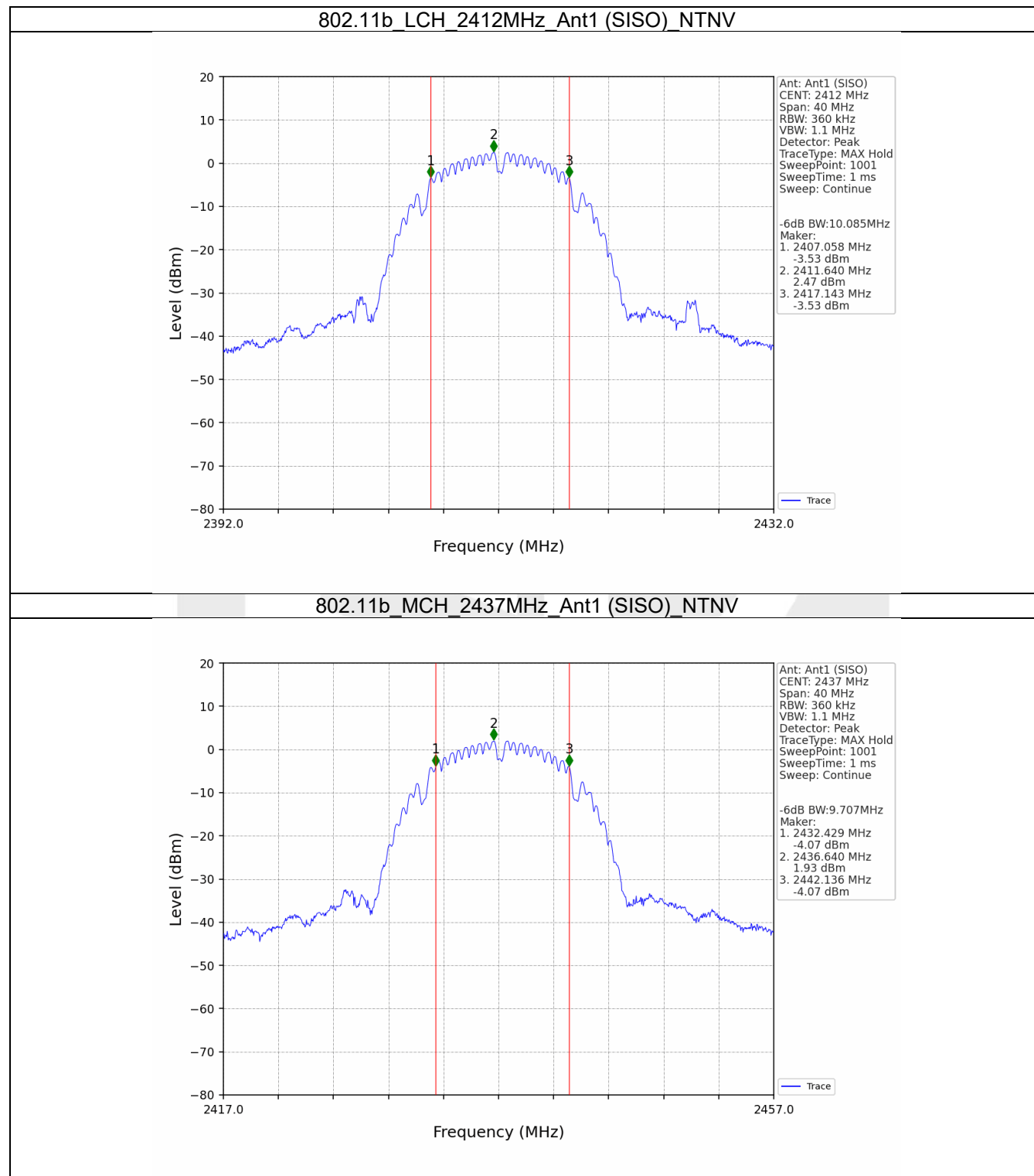


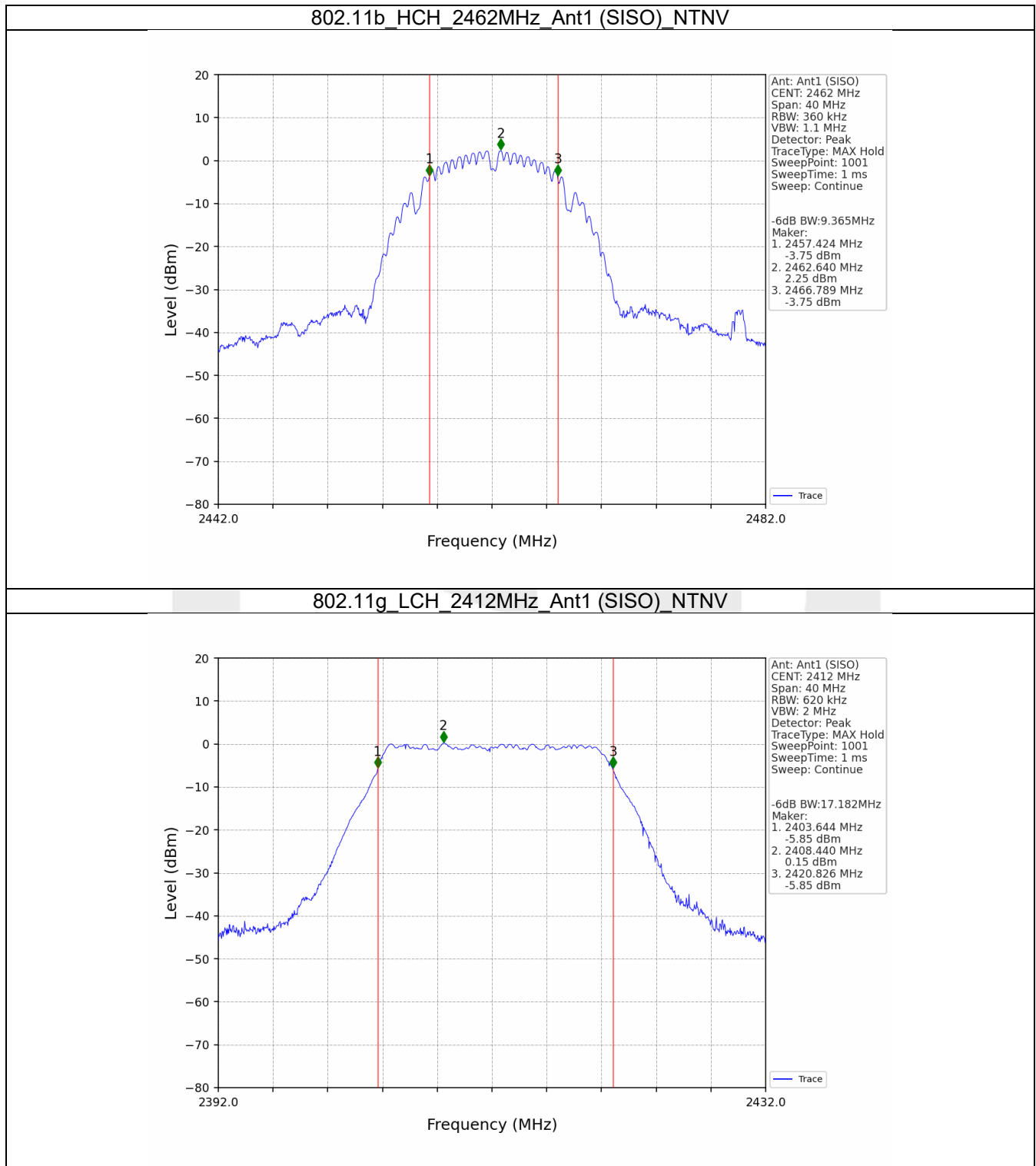


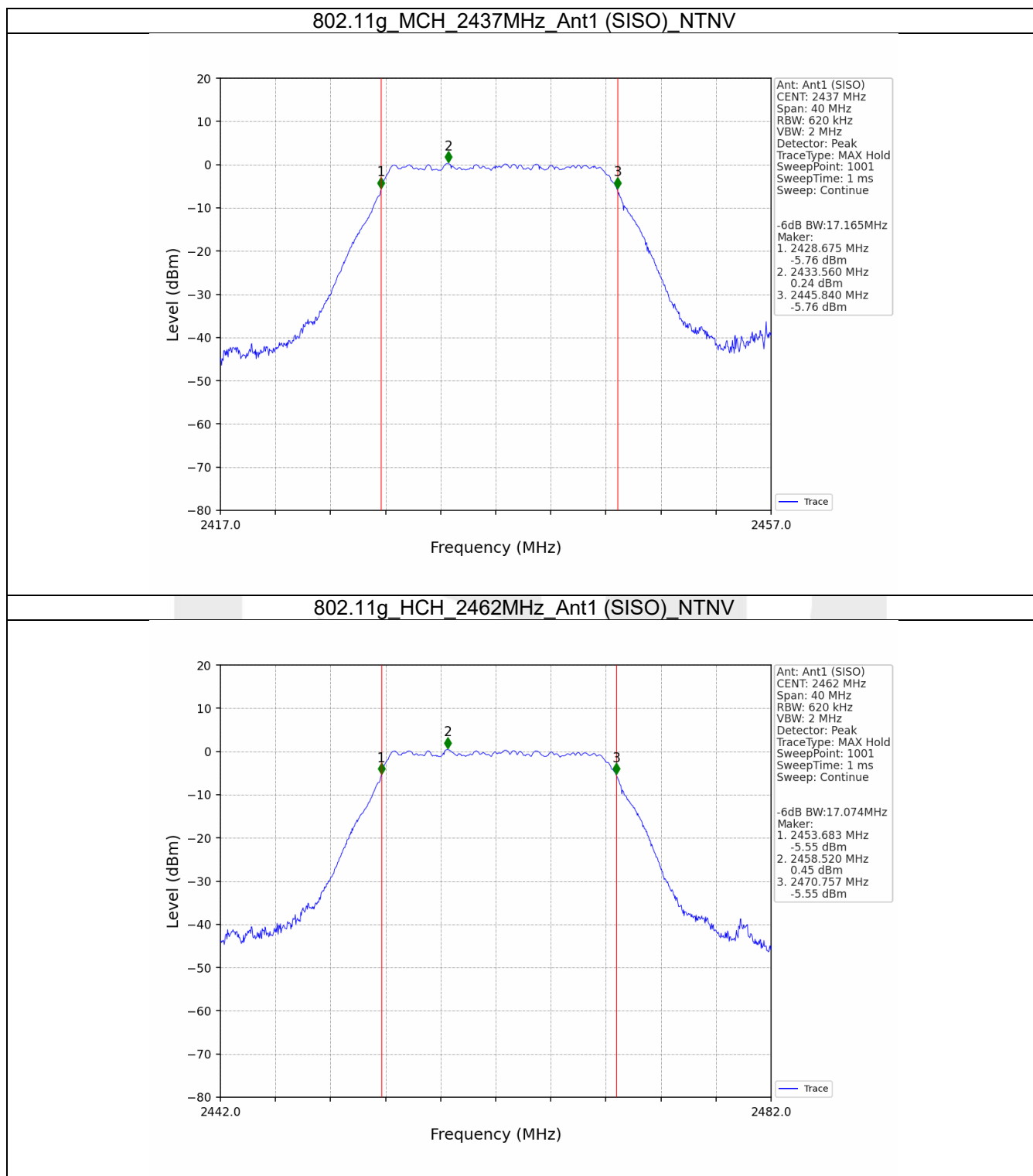


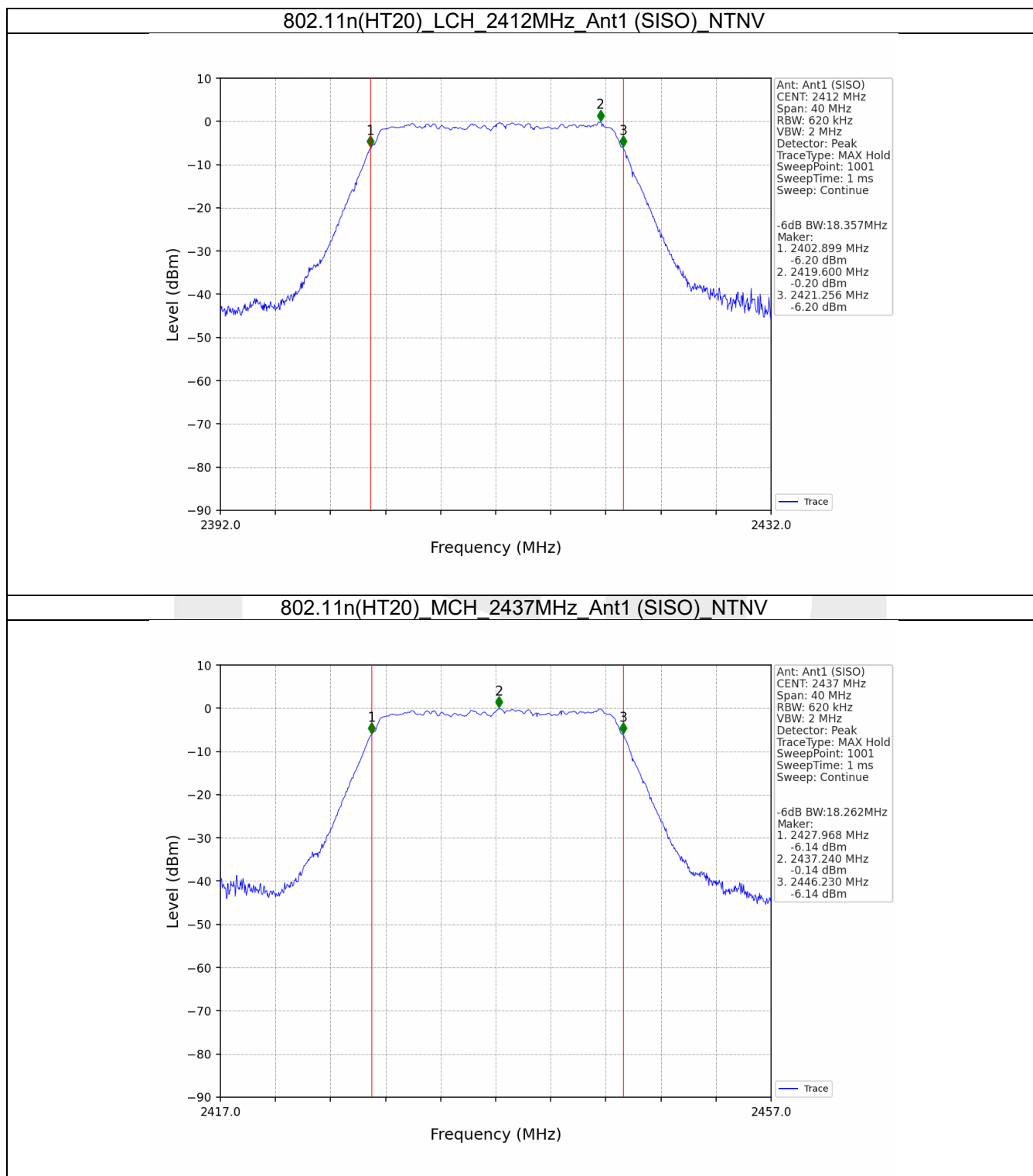


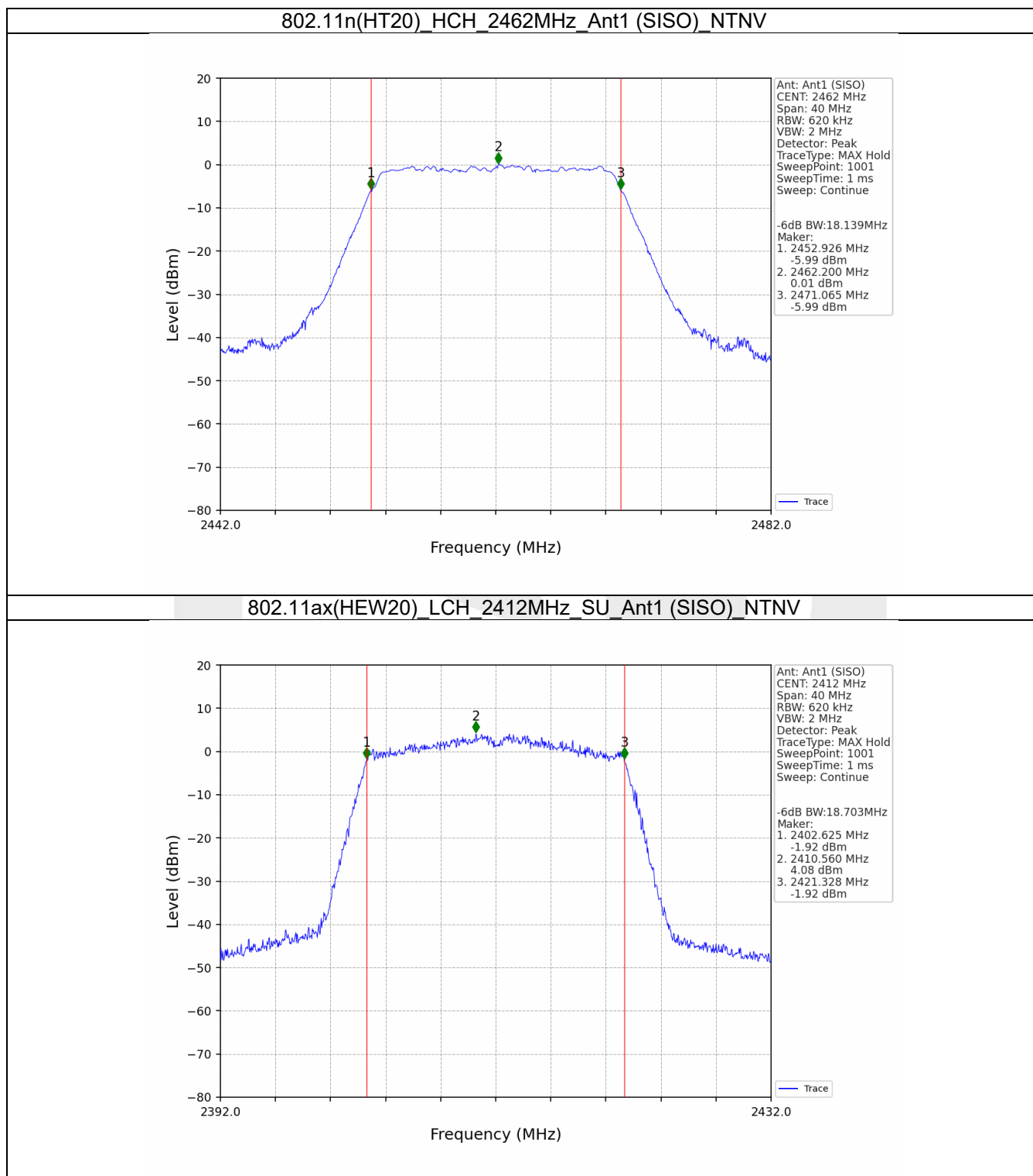
2.2.2 6dB BW



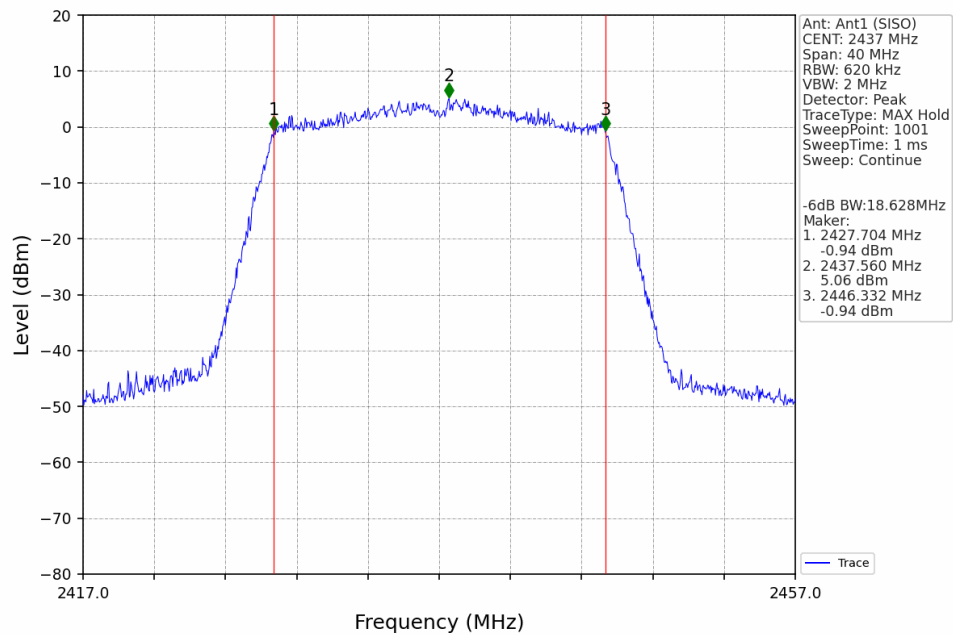




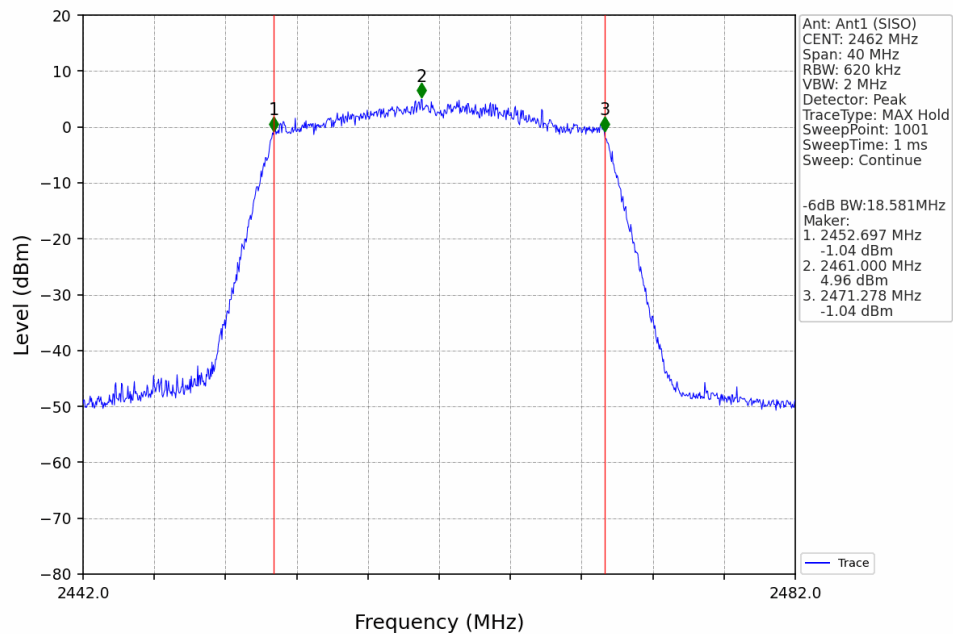




802.11ax(HEW20)_MCH_2437MHz_SU_Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_SU_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
802.11b	SISO	2412	/	13.45	<=30	Pass
		2437	/	12.91	<=30	Pass
		2462	/	13.17	<=30	Pass
802.11g	SISO	2412	/	14.25	<=30	Pass
		2437	/	14.34	<=30	Pass
		2462	/	14.45	<=30	Pass
802.11n (HT20)	SISO	2412	/	14.24	<=30	Pass
		2437	/	14.25	<=30	Pass
		2462	/	14.34	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	15.34	<=30	Pass
		2437	SU	16.22	<=30	Pass
		2462	SU	15.95	<=30	Pass

4. Maximum Power Spectral Density

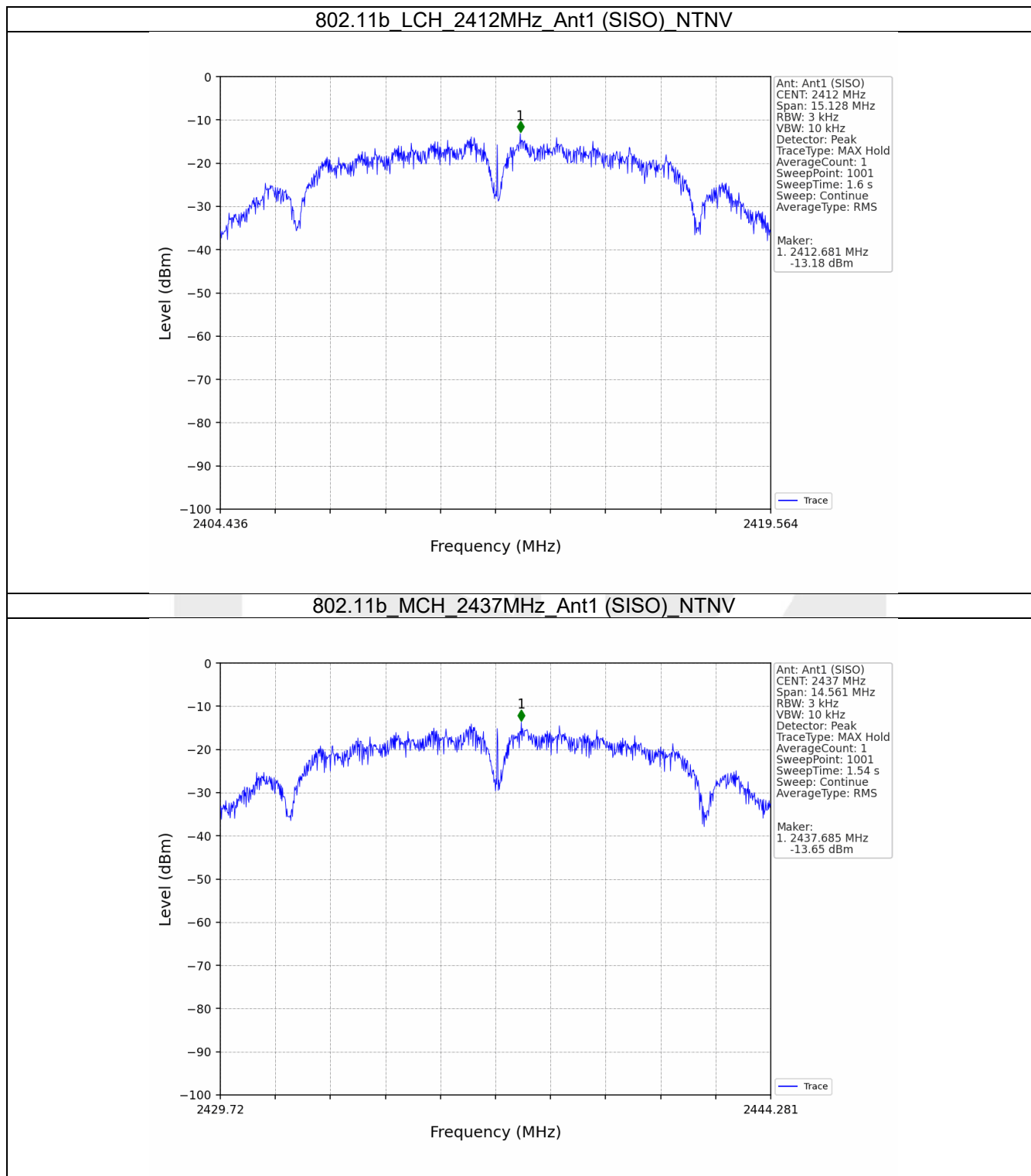
4.1 Test Result

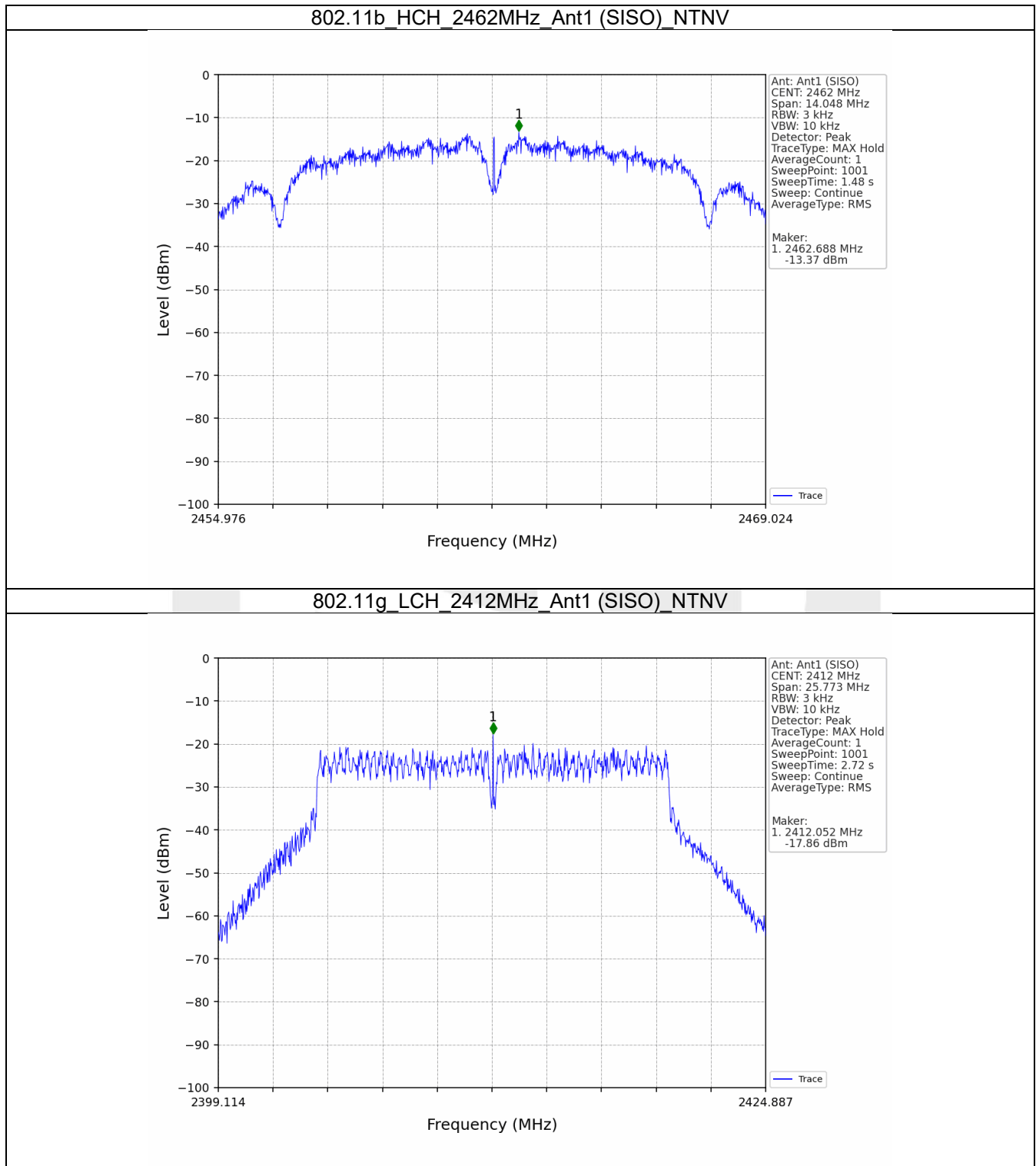
4.1.1 PSD

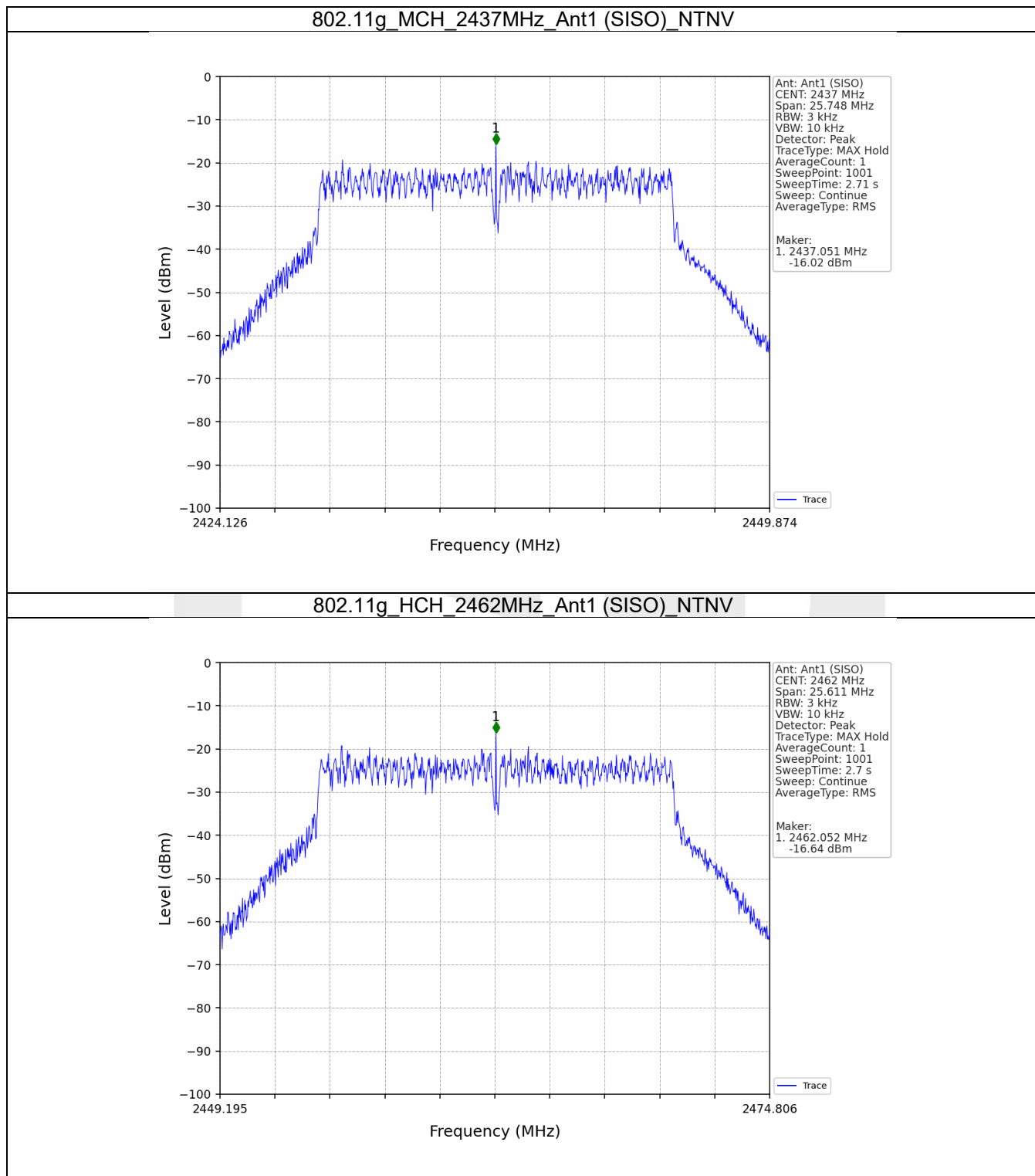
Mode	TX Type	Frequency (MHz)	RU	Maximum PSD (dBm/3kHz)		Verdict
				ANT1	Limit	
802.11b	SISO	2412	/	-13.18	<=8	Pass
		2437	/	-13.65	<=8	Pass
		2462	/	-13.37	<=8	Pass
802.11g	SISO	2412	/	-17.86	<=8	Pass
		2437	/	-16.02	<=8	Pass
		2462	/	-16.64	<=8	Pass
802.11n (HT20)	SISO	2412	/	-17.98	<=8	Pass
		2437	/	-16.84	<=8	Pass
		2462	/	-15.87	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	-19.77	<=8	Pass
		2437	SU	-18.53	<=8	Pass
		2462	SU	-19.60	<=8	Pass

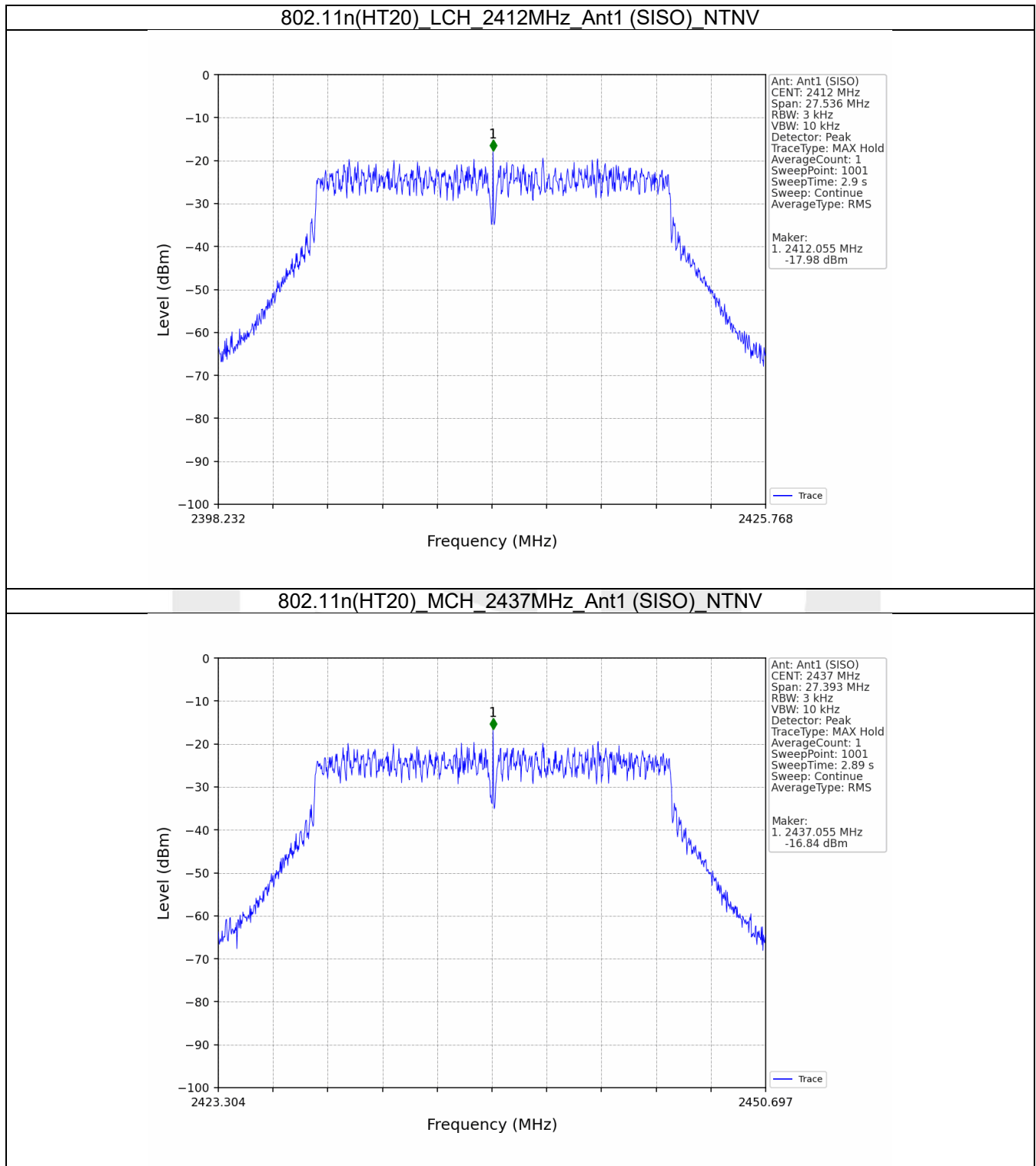
4.2 Test Graph

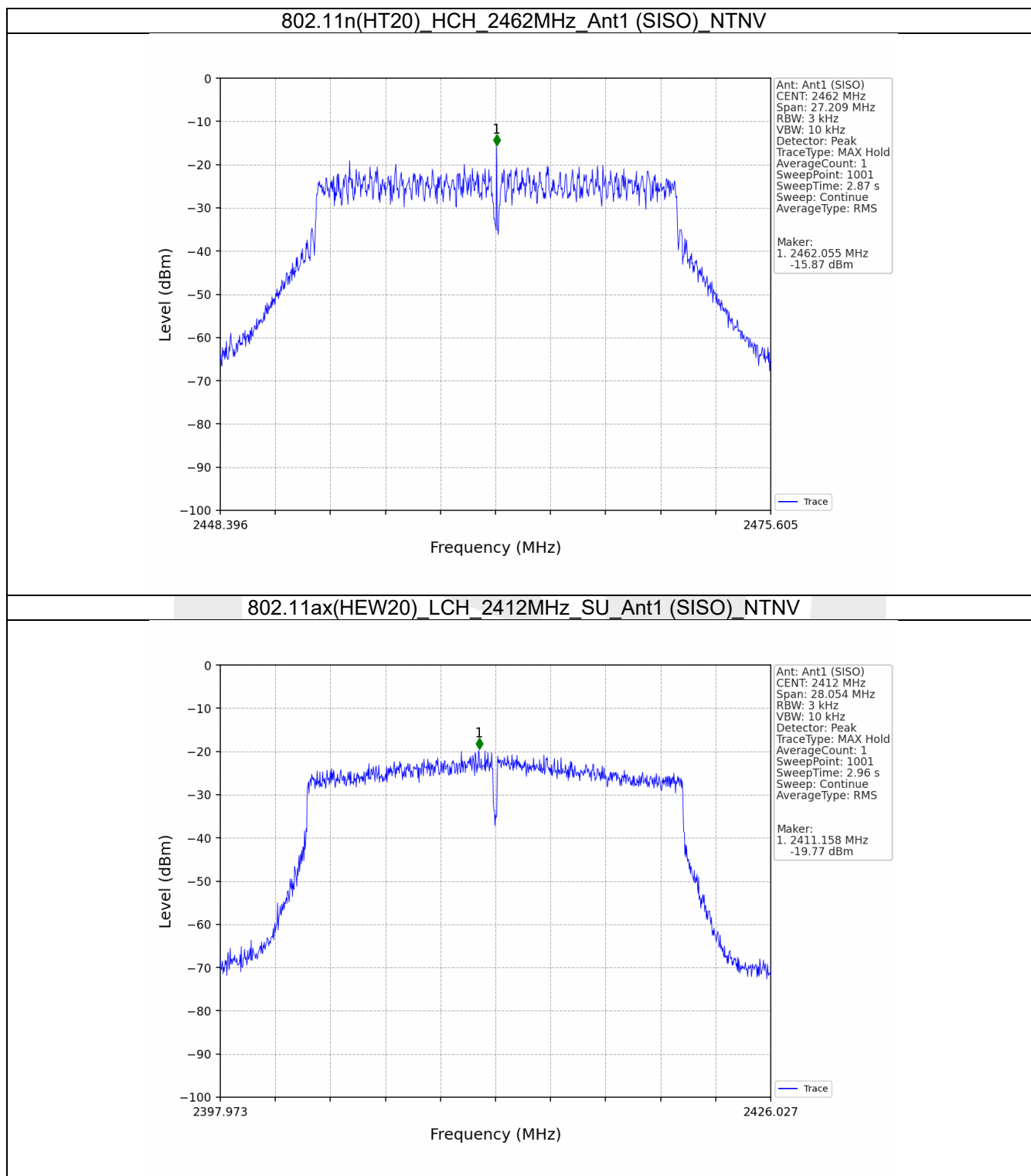
4.2.1 PSD

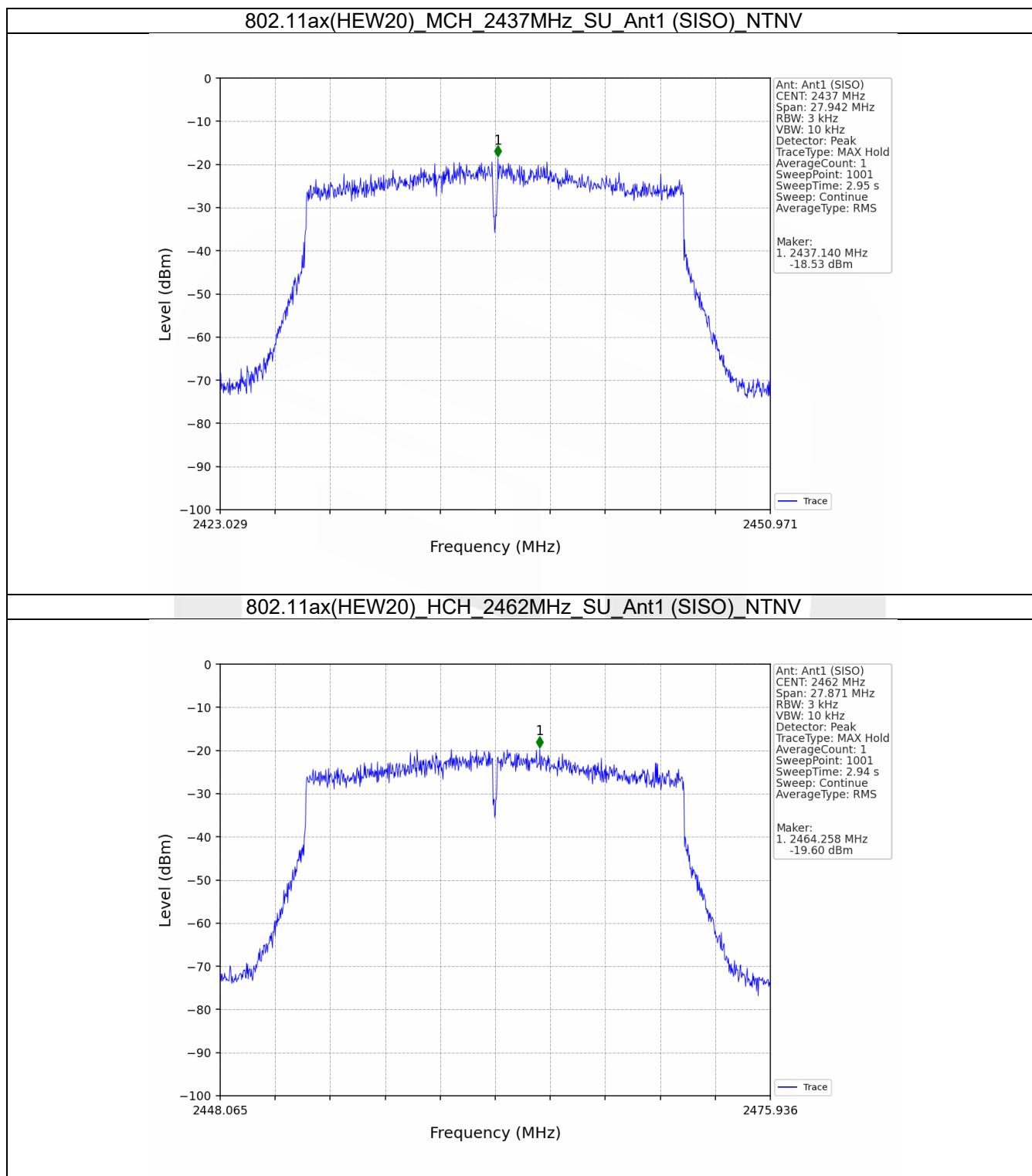












5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	1	1.15
		2437	/	1	0.69
		2462	/	1	1.09
802.11g	SISO	2412	/	1	-4.72
		2437	/	1	-4.62
		2462	/	1	-4.48
802.11n (HT20)	SISO	2412	/	1	-4.78
		2437	/	1	-4.74
		2462	/	1	-4.64
802.11ax (HEW20)	SISO	2412	SU	1	-5.71
		2437	SU	1	-5.15
		2462	SU	1	-5.35

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.

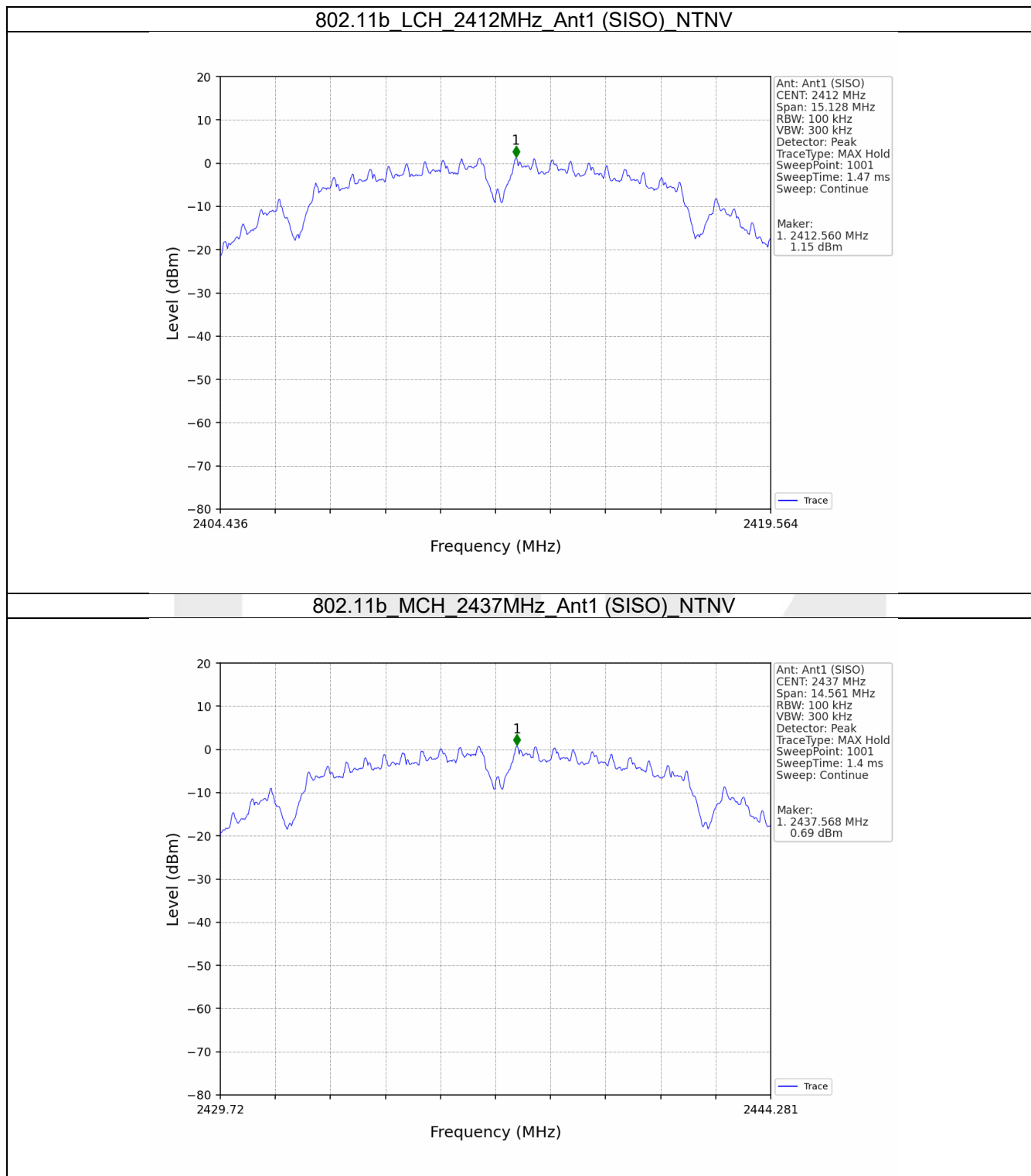
5.1.2 CSE

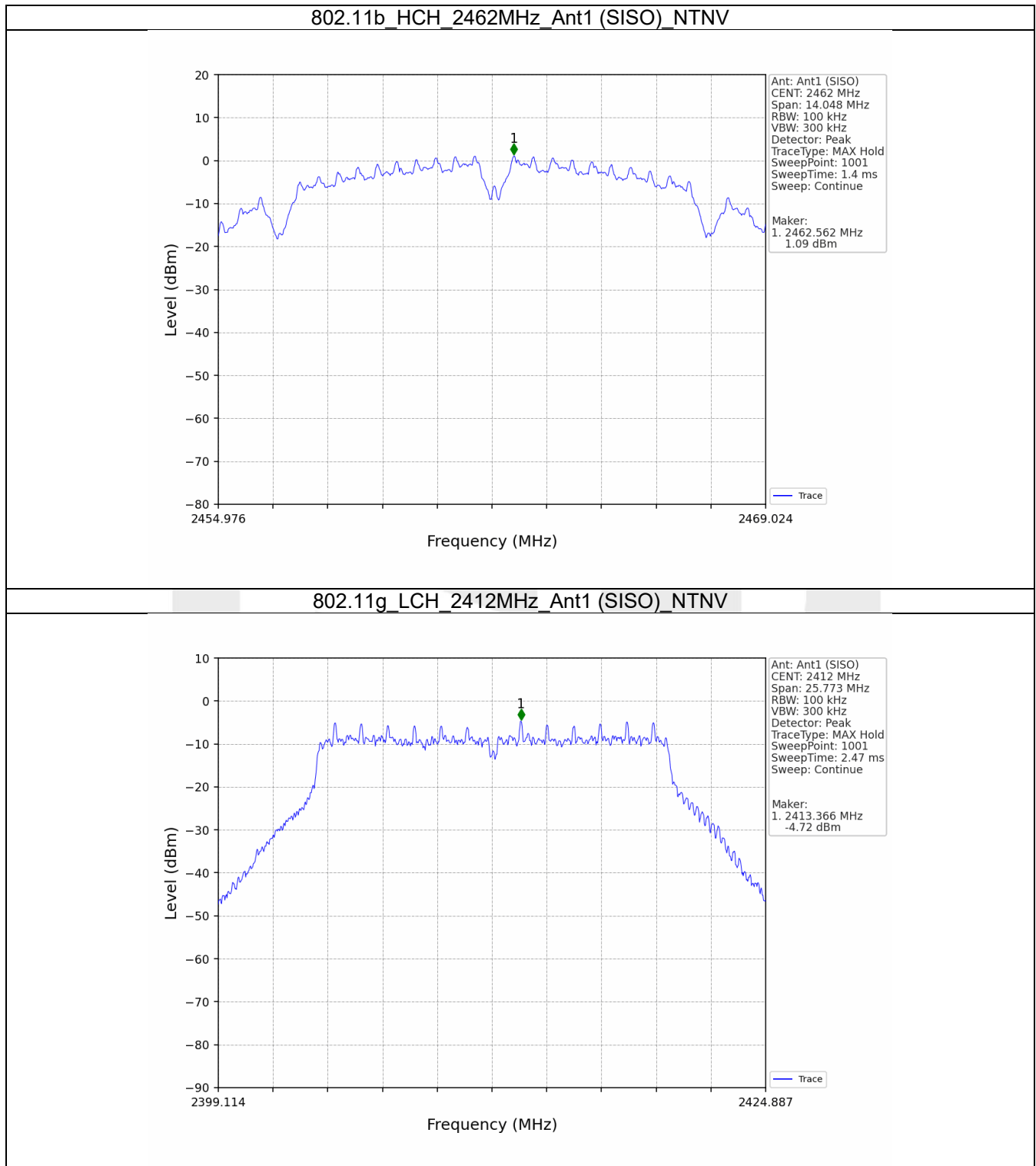
Mode	TX Type	Frequency (MHz)	RU	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	1	1.15	-18.85	Pass
		2437	/	1	0.69	-19.31	Pass
		2462	/	1	1.09	-18.91	Pass
802.11g	SISO	2412	/	1	-4.72	-24.72	Pass
		2437	/	1	-4.62	-24.62	Pass
		2462	/	1	-4.48	-24.48	Pass
802.11n (HT20)	SISO	2412	/	1	-4.78	-24.78	Pass
		2437	/	1	-4.74	-24.74	Pass
		2462	/	1	-4.64	-24.64	Pass
802.11ax (HEW20)	SISO	2412	SU	1	-5.71	-25.71	Pass
		2437	SU	1	-5.15	-25.15	Pass
		2462	SU	1	-5.35	-25.35	Pass

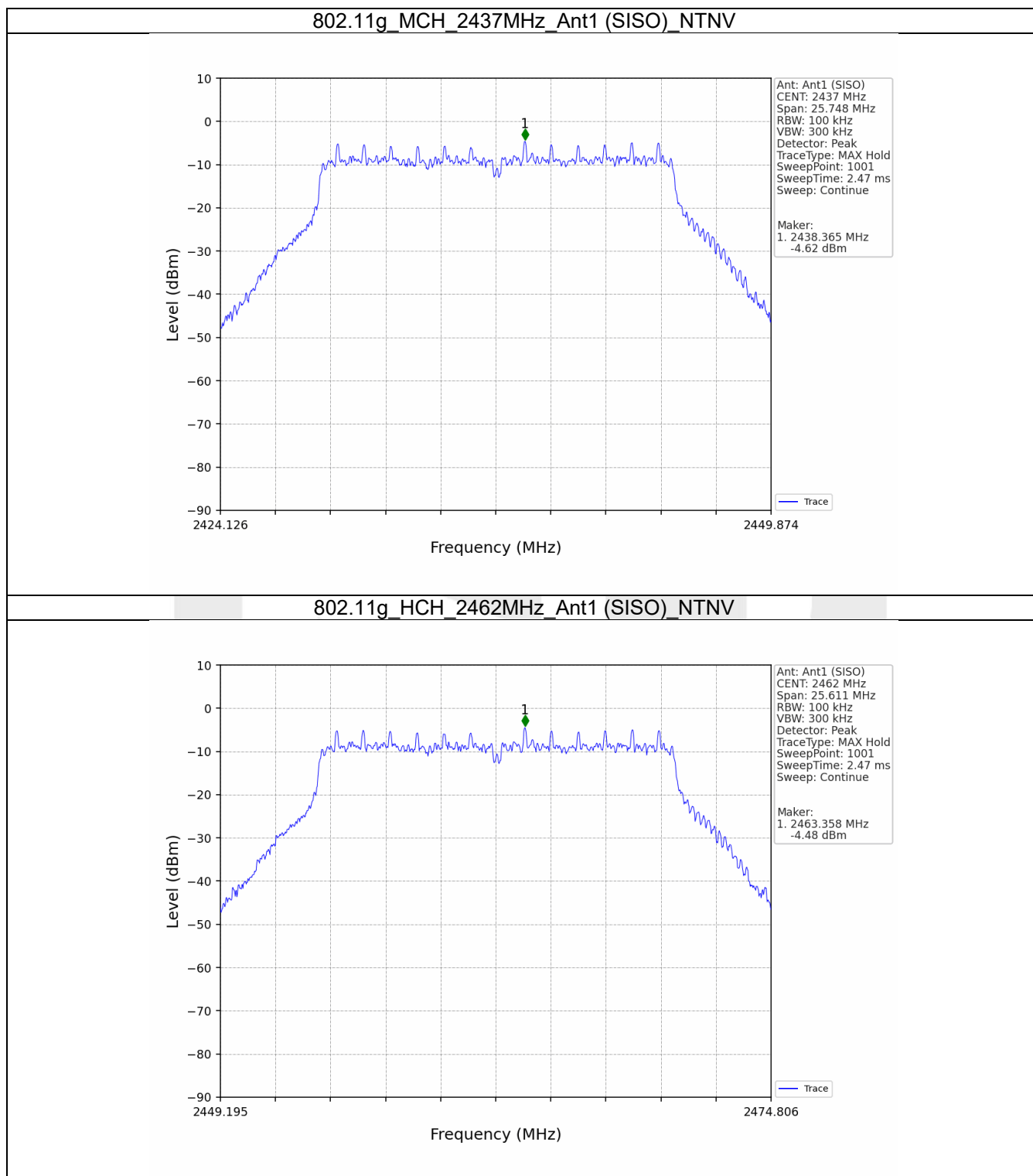
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

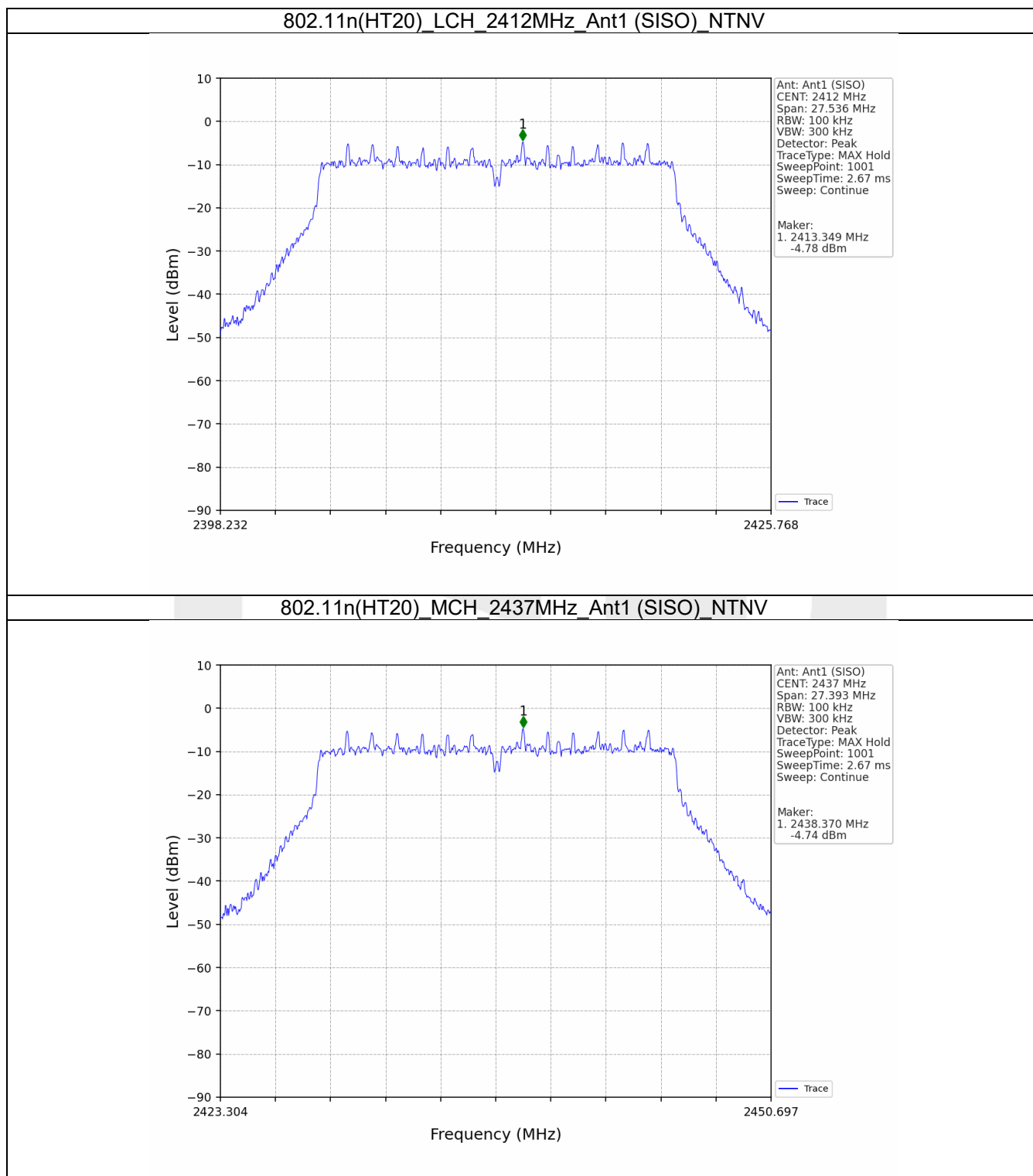
5.2 Test Graph

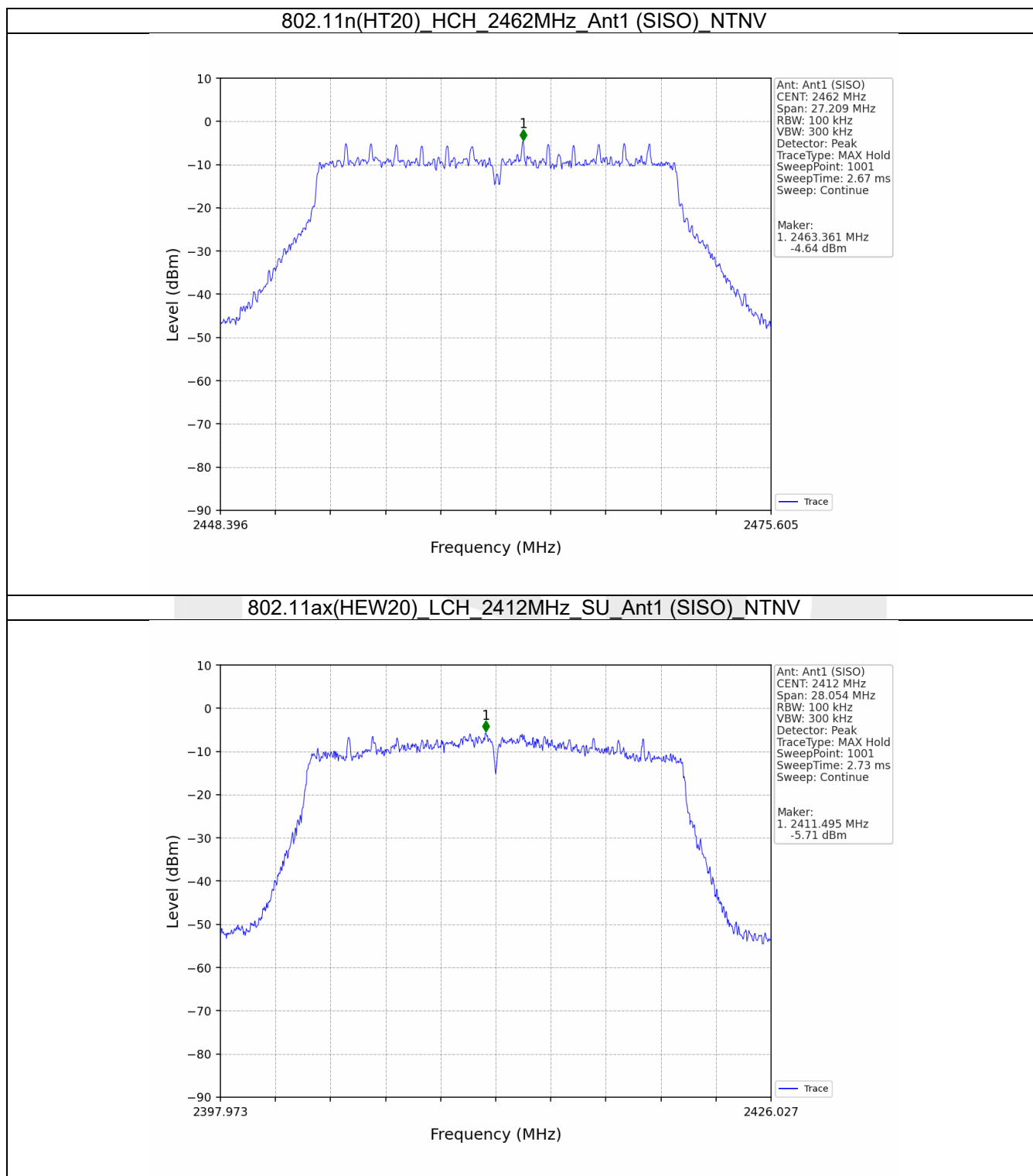
5.2.1 Ref

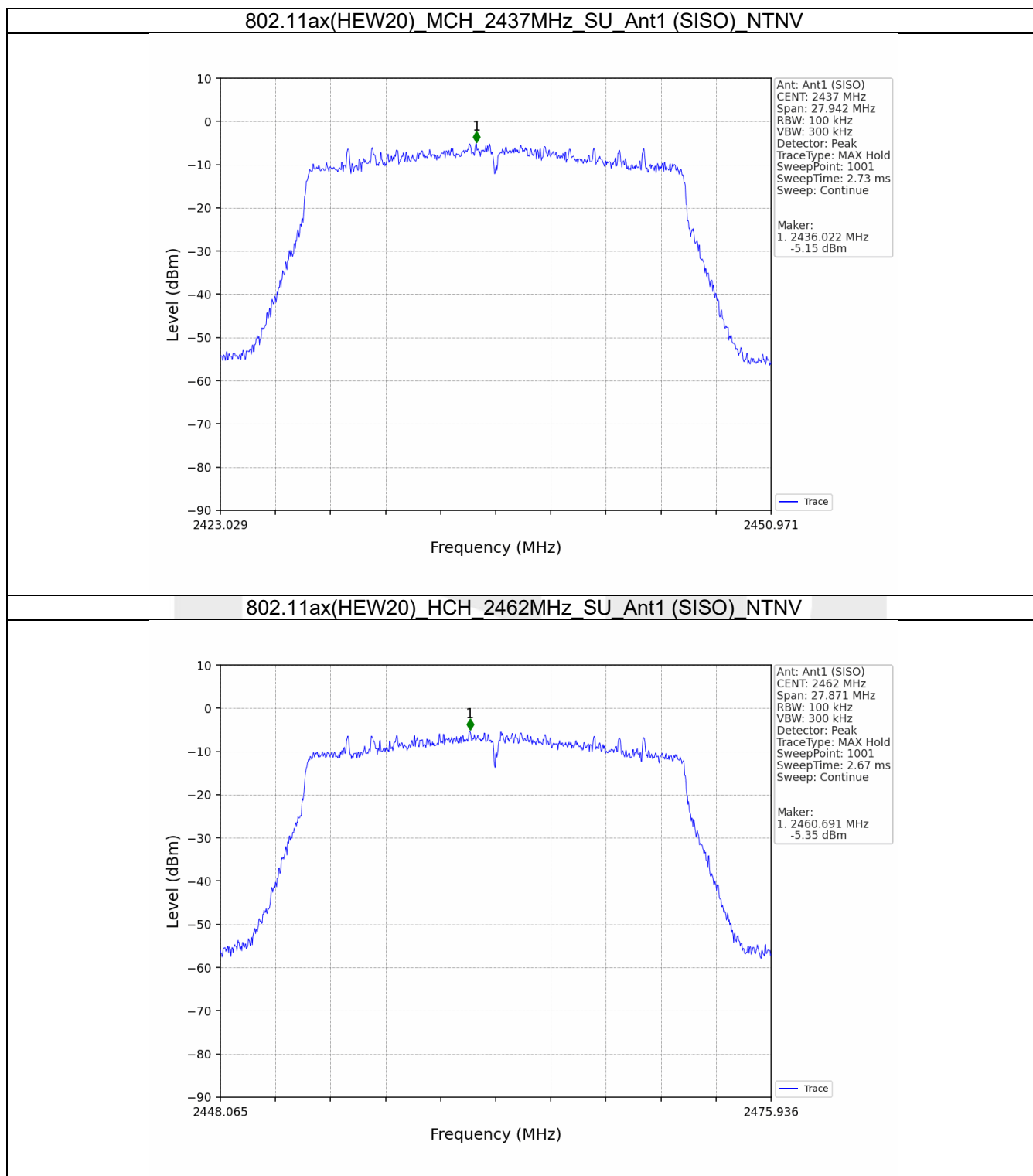




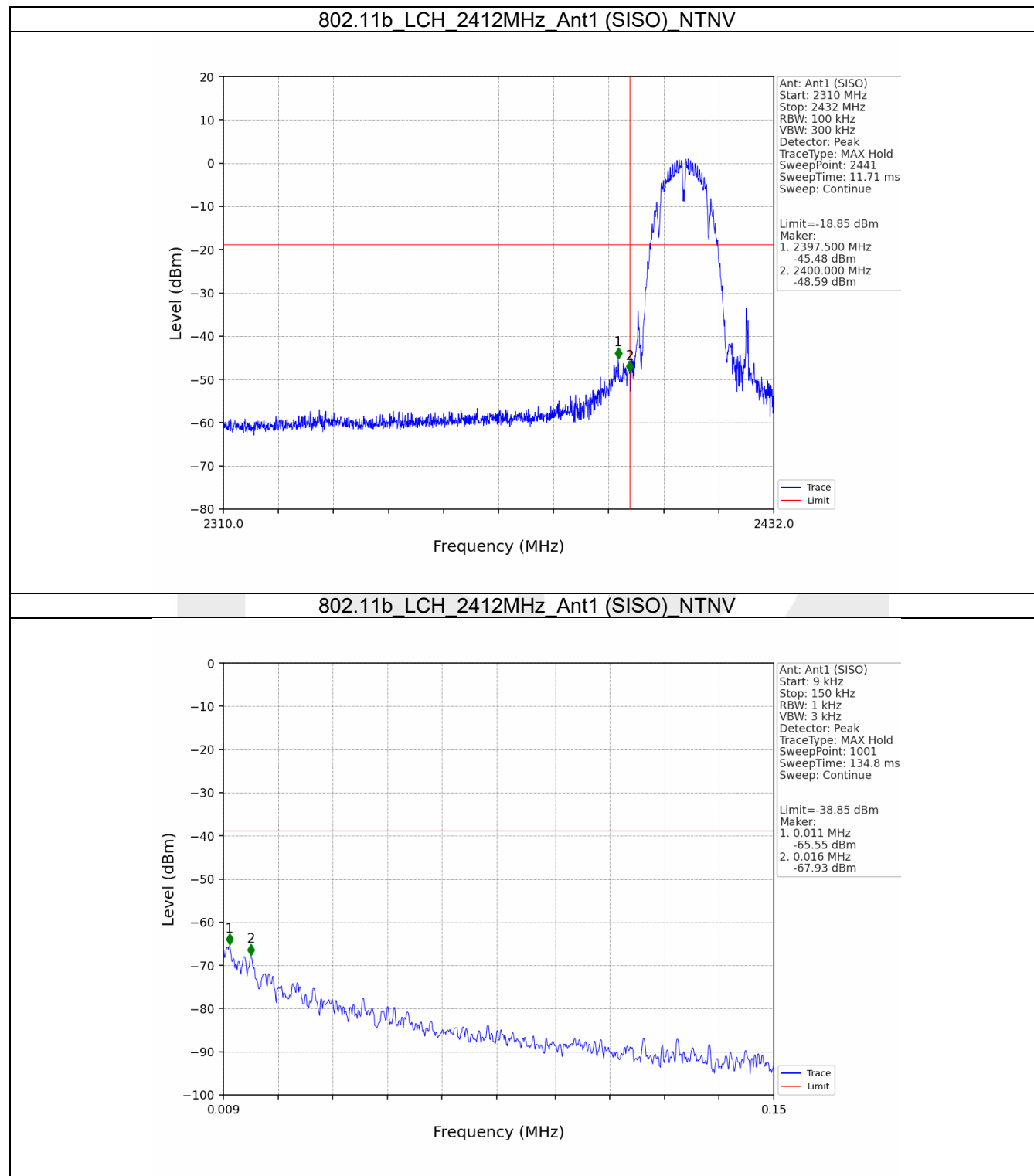


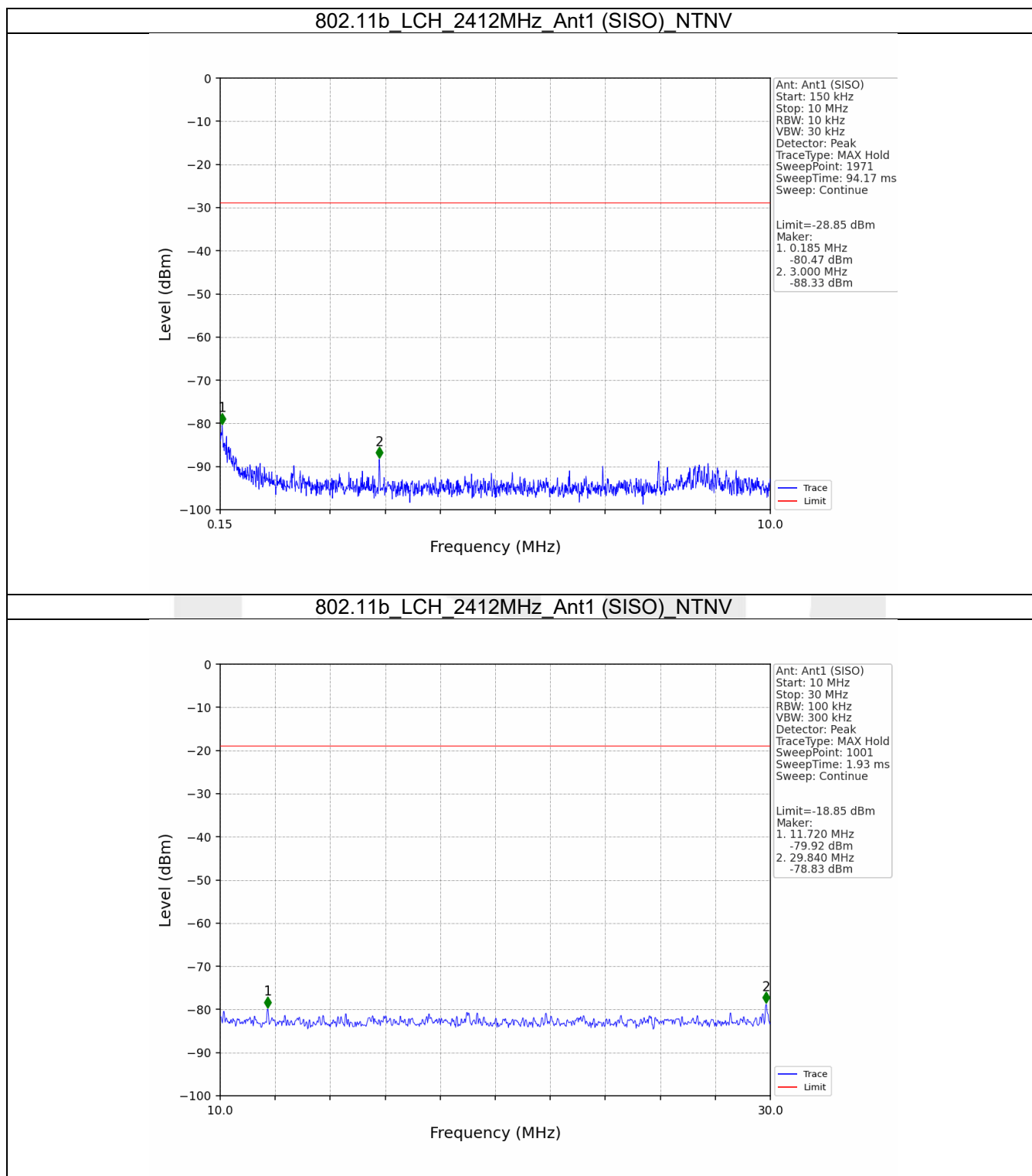


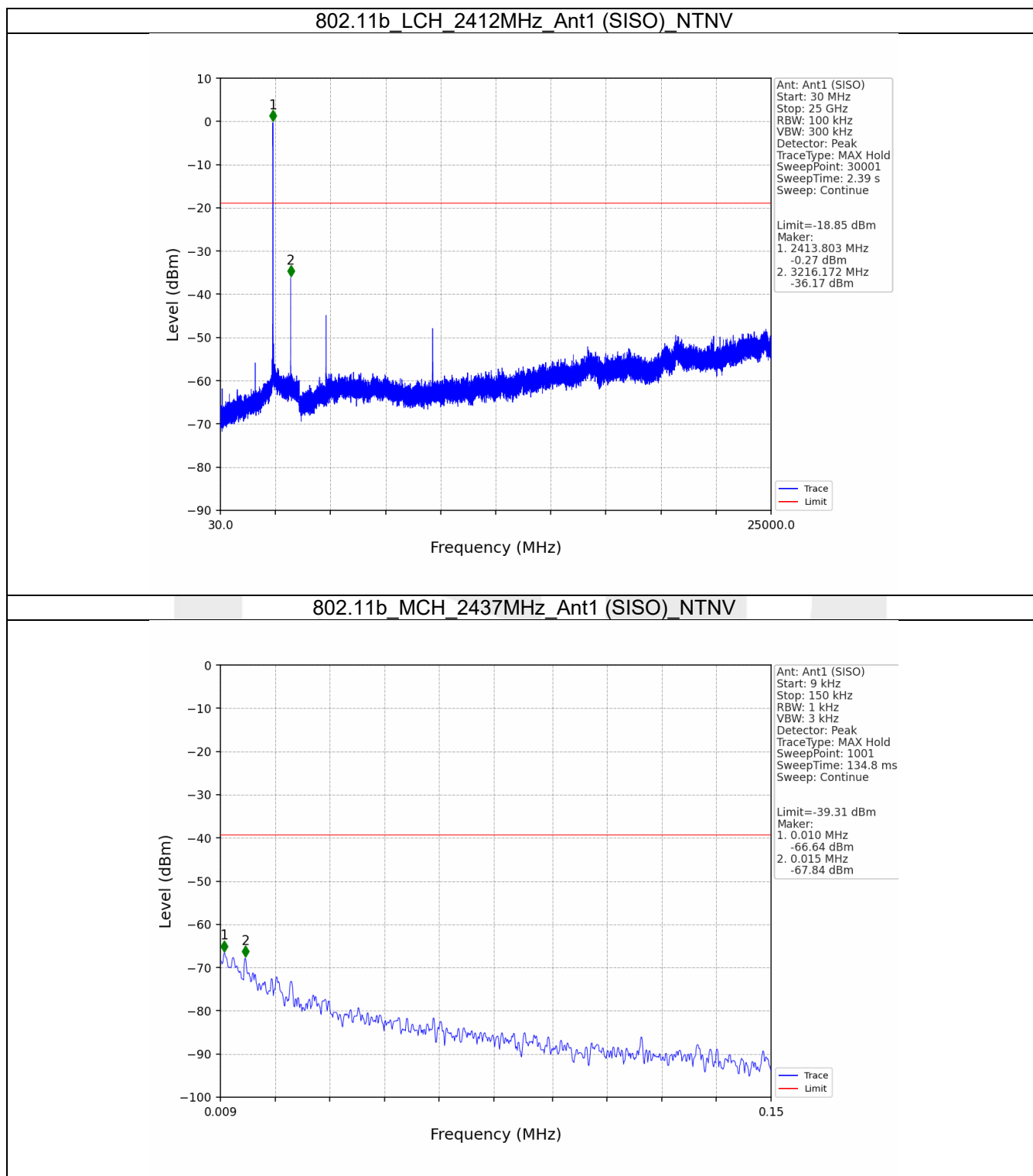


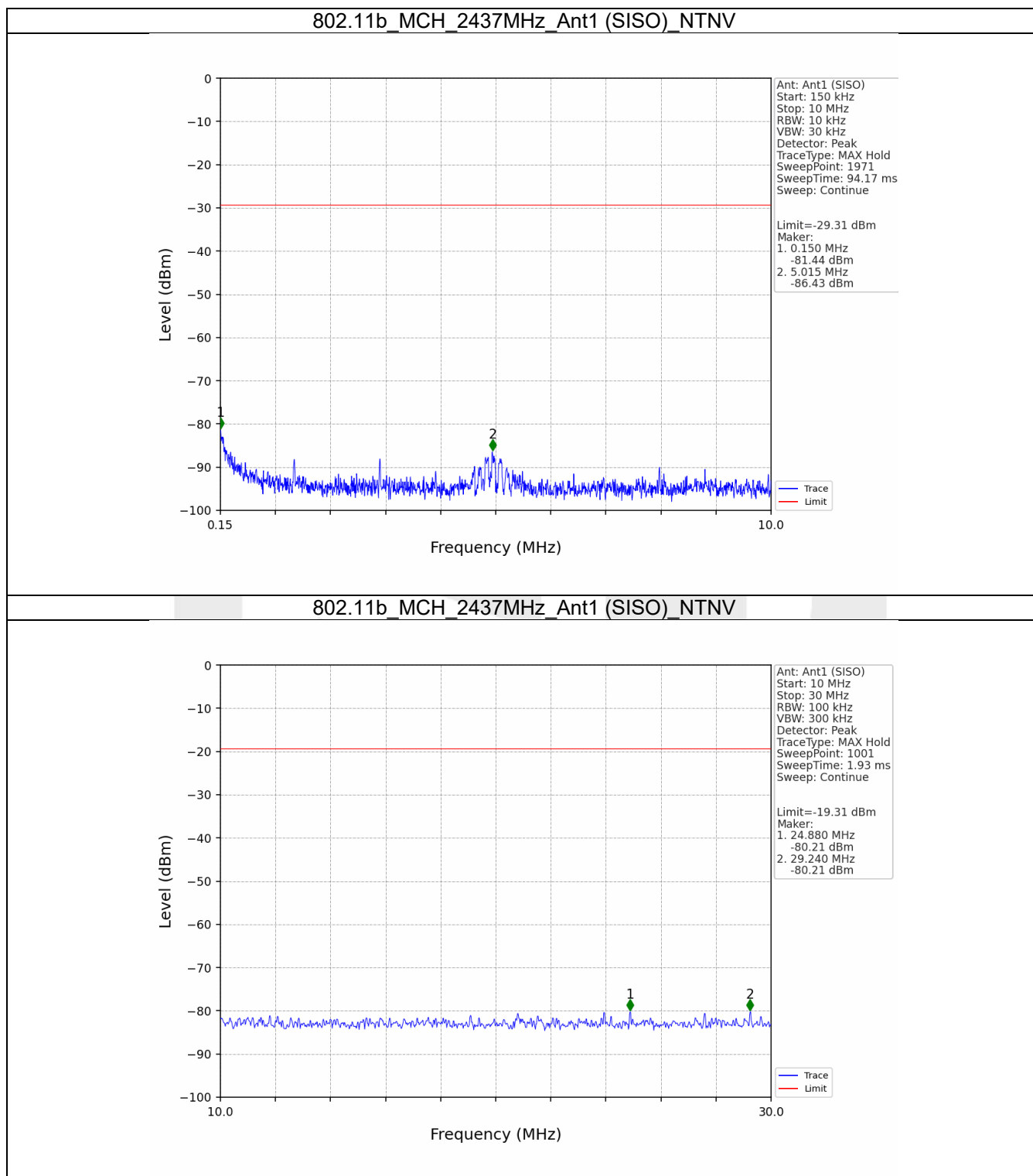


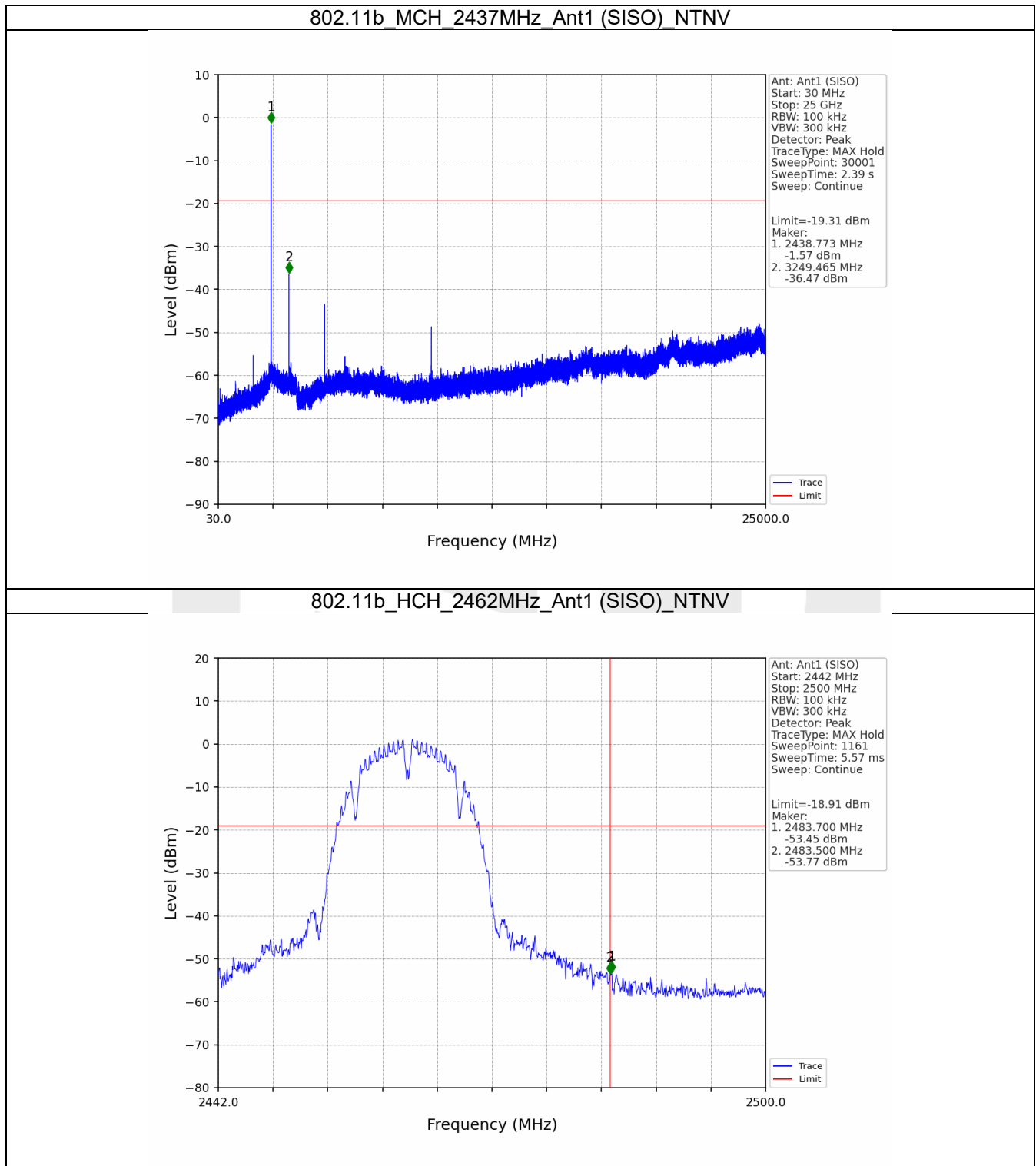
5.2.2 CSE

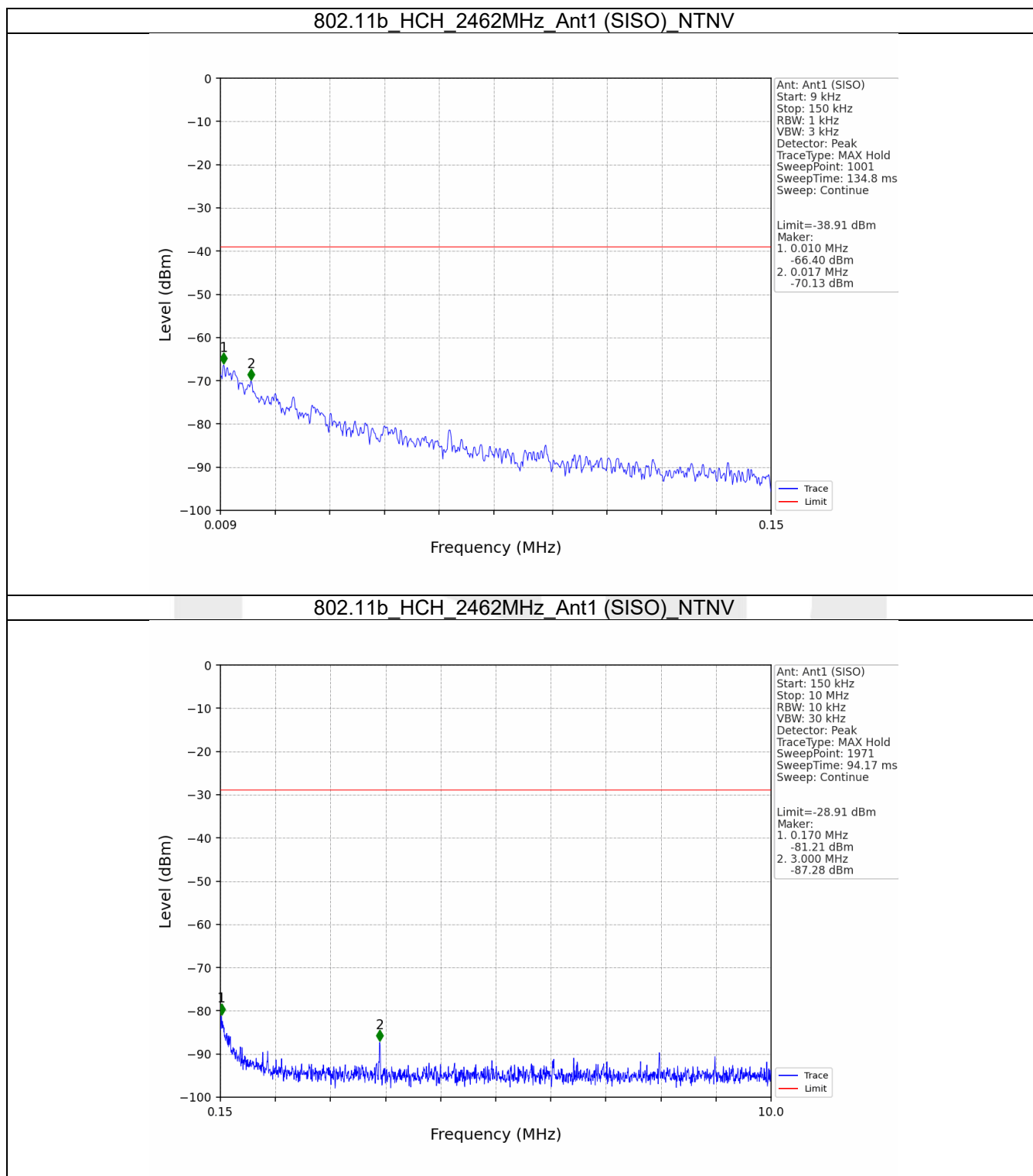


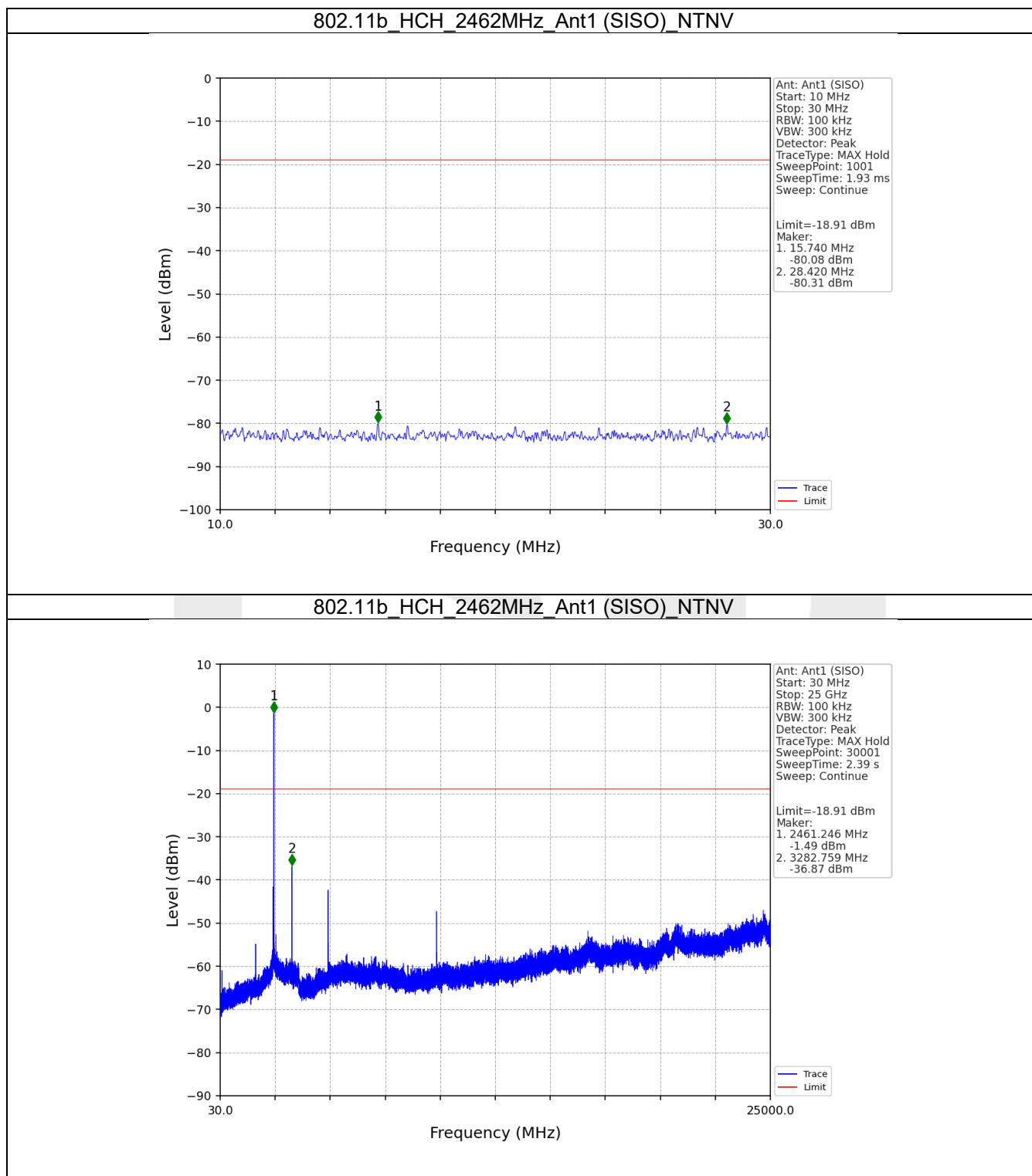


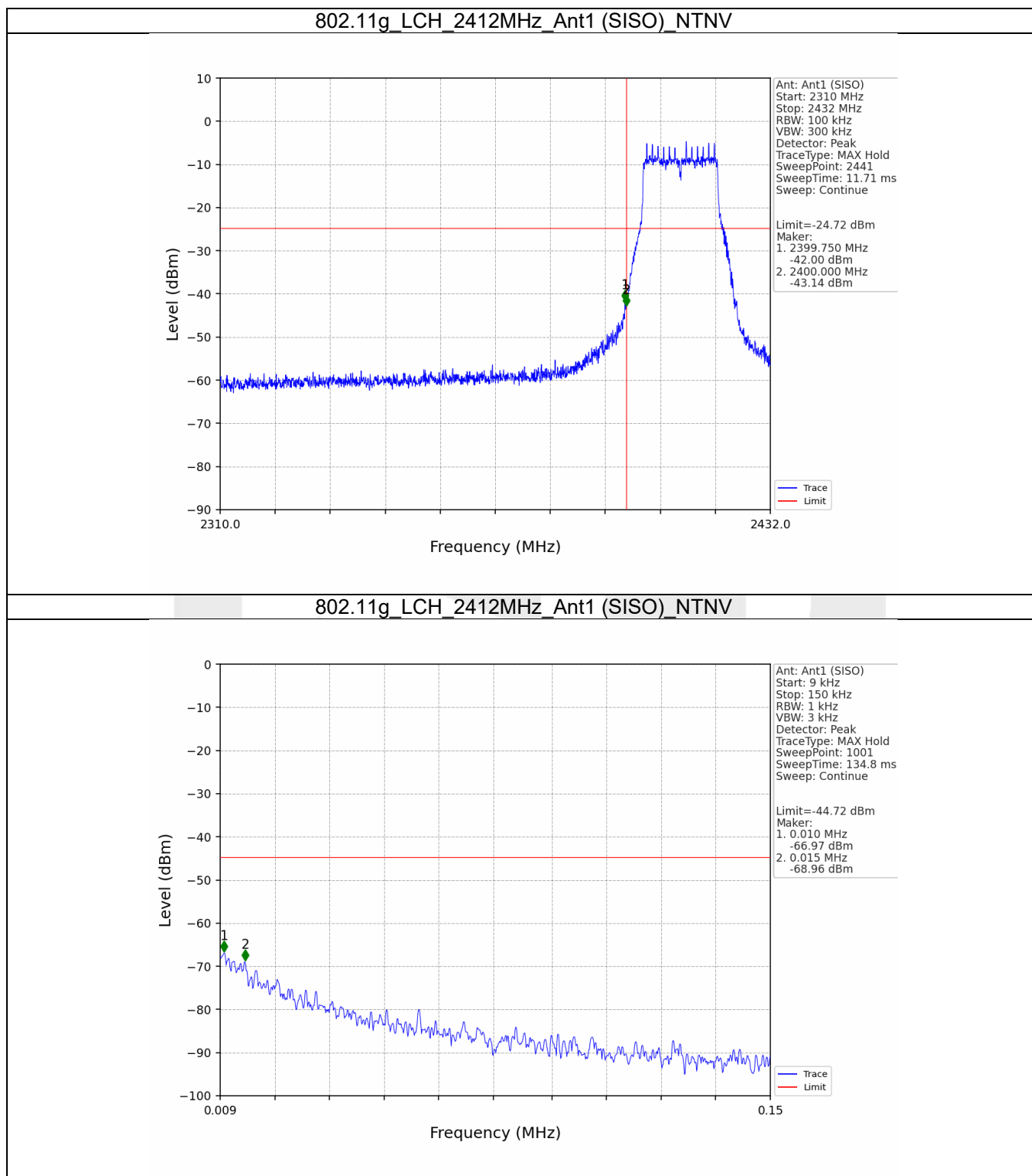


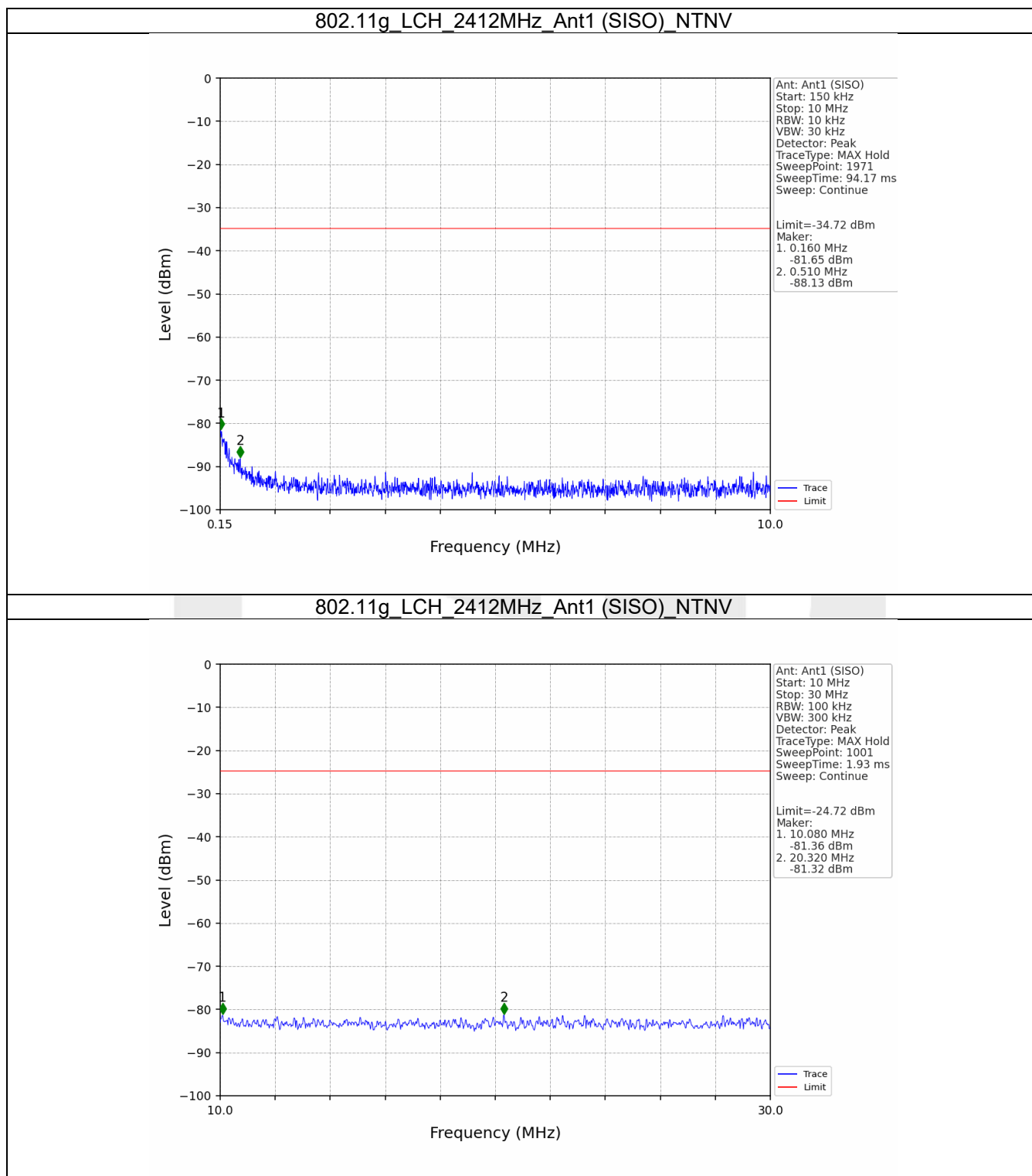


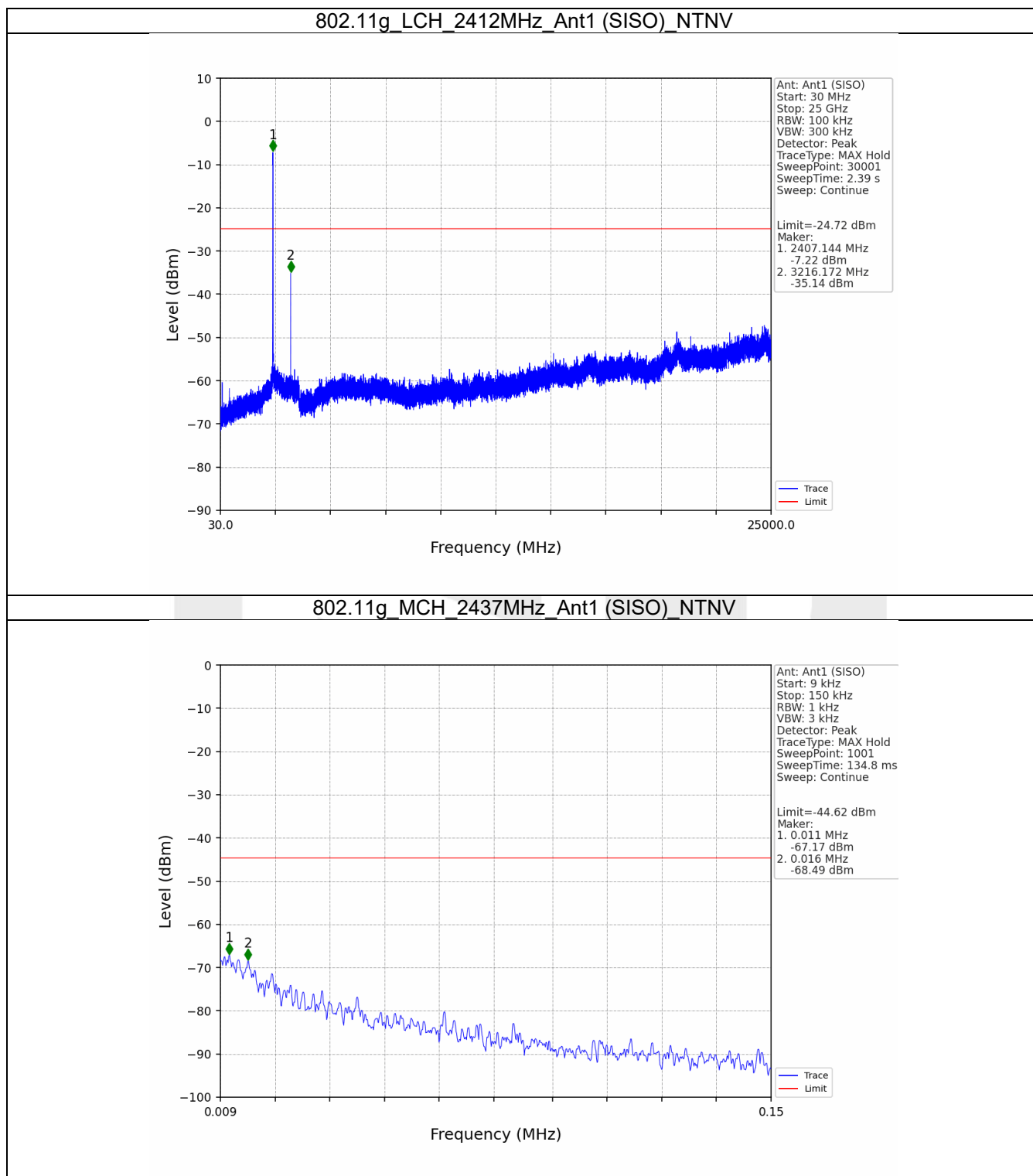


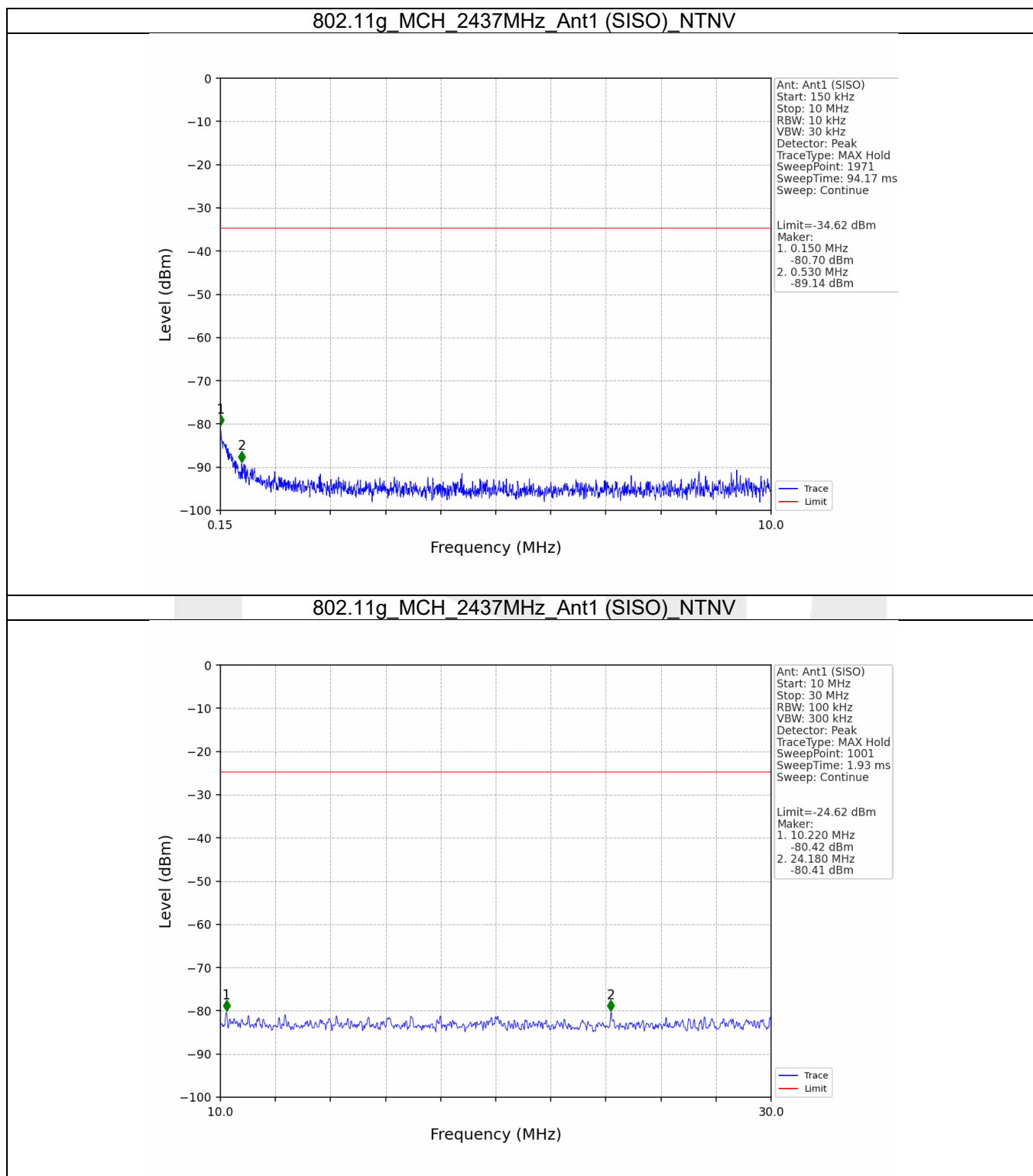


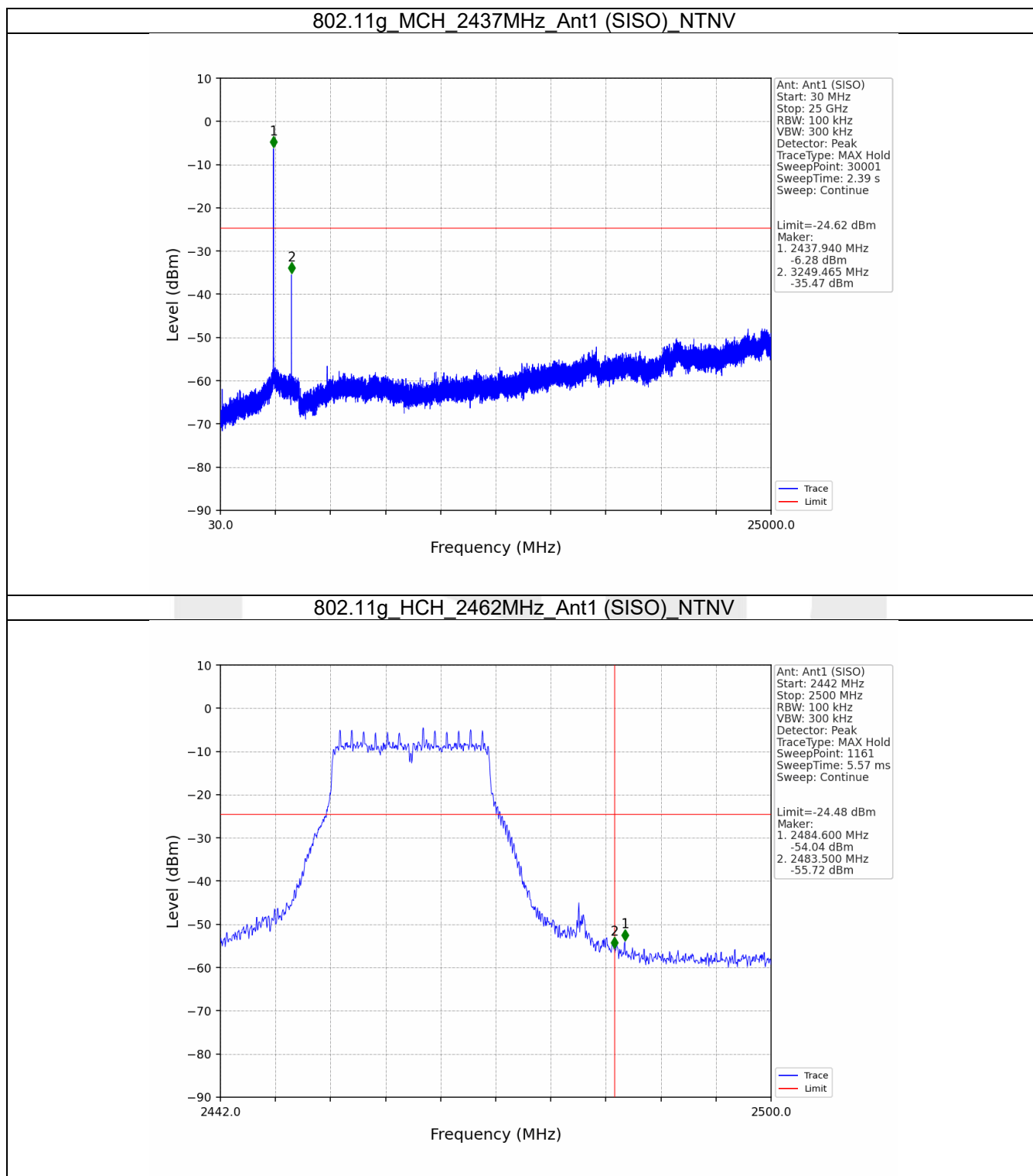


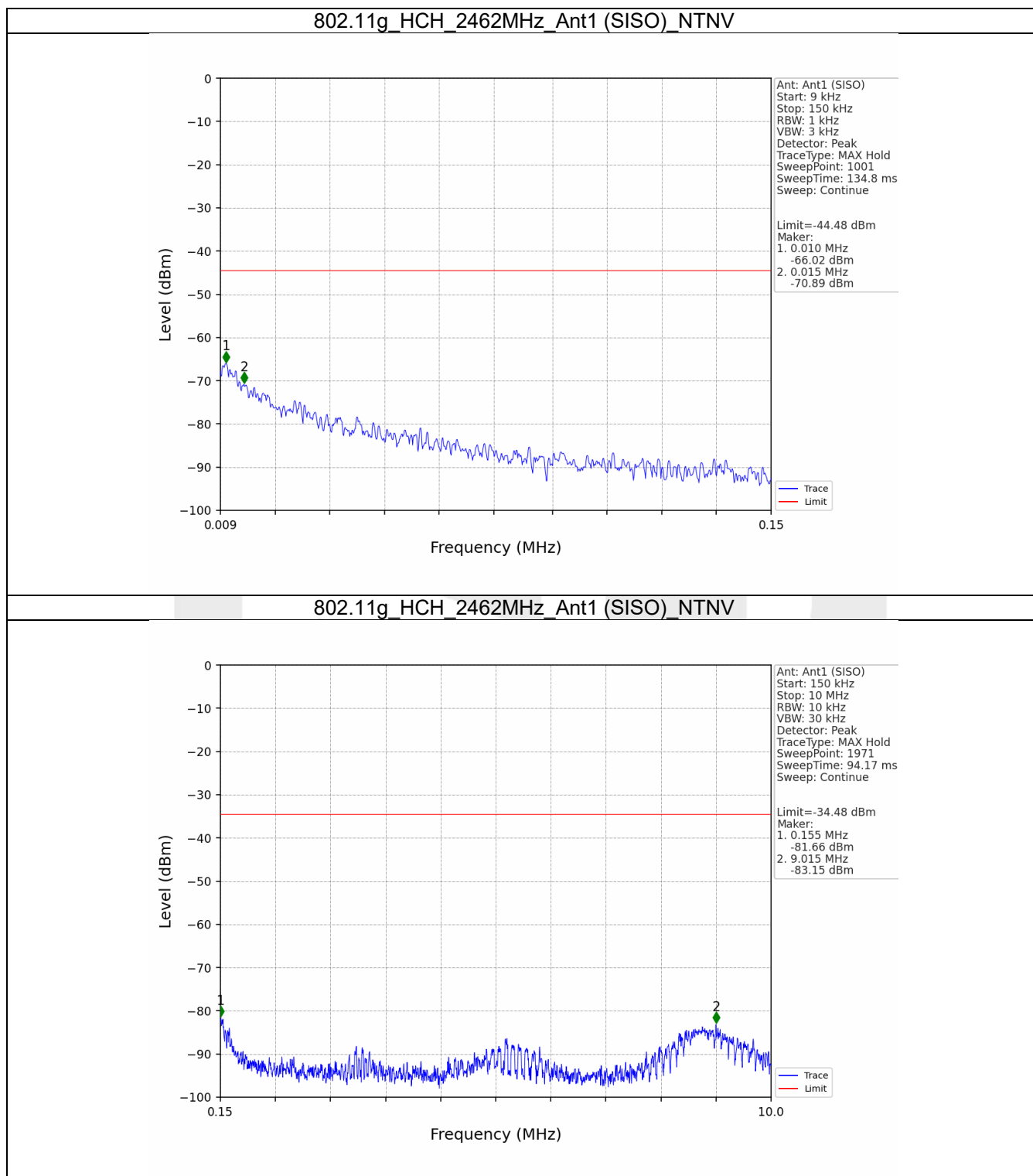


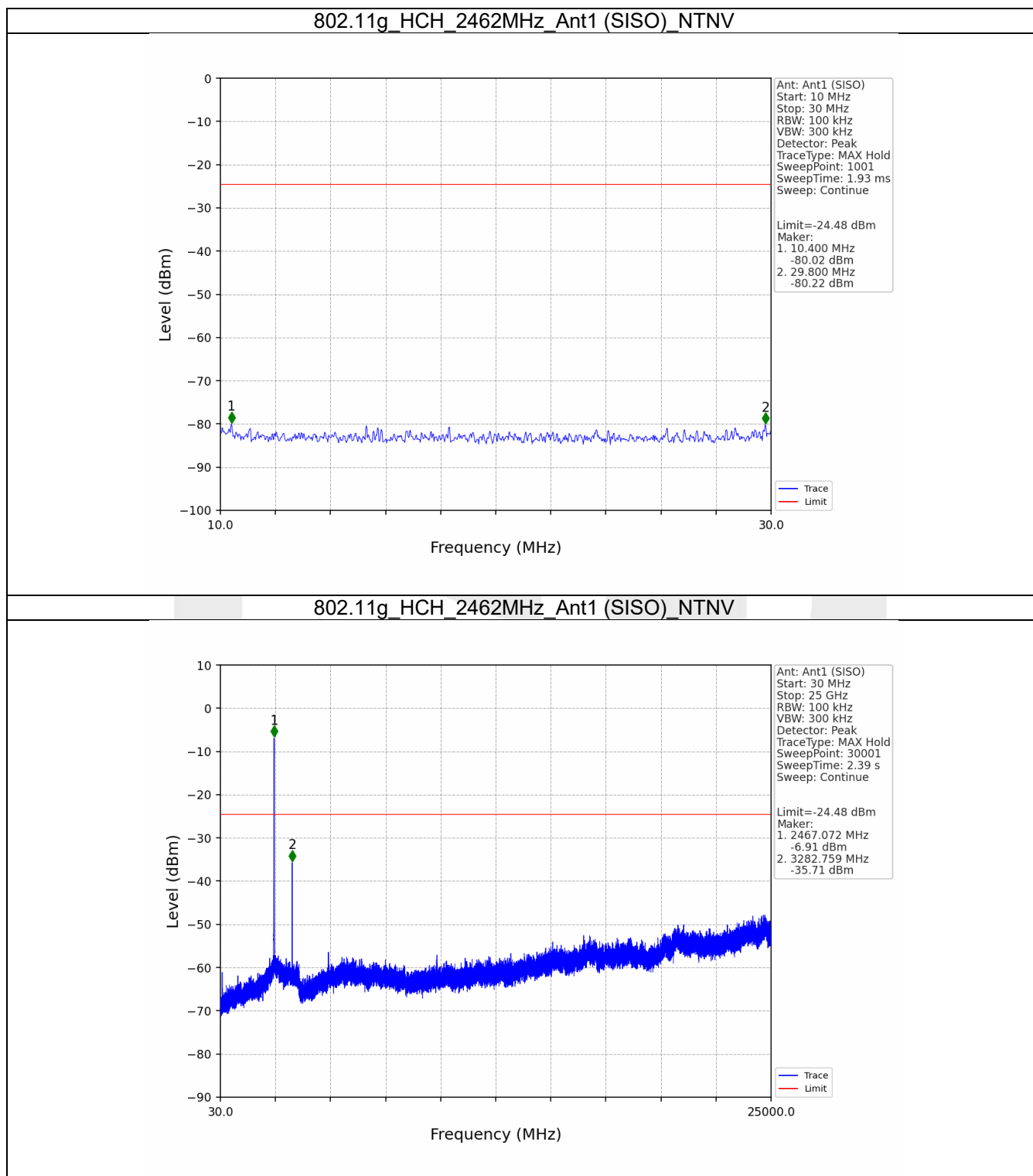


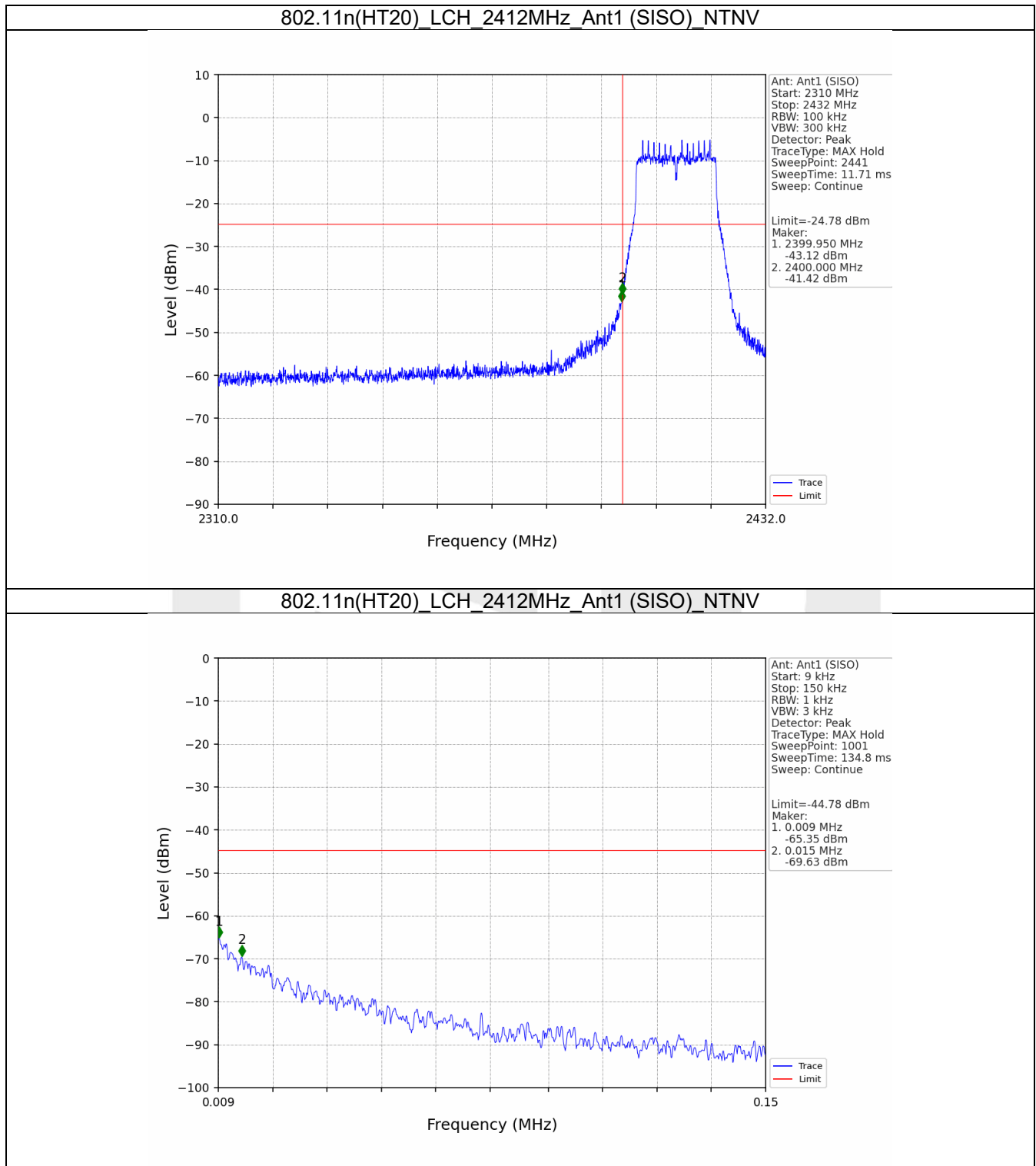


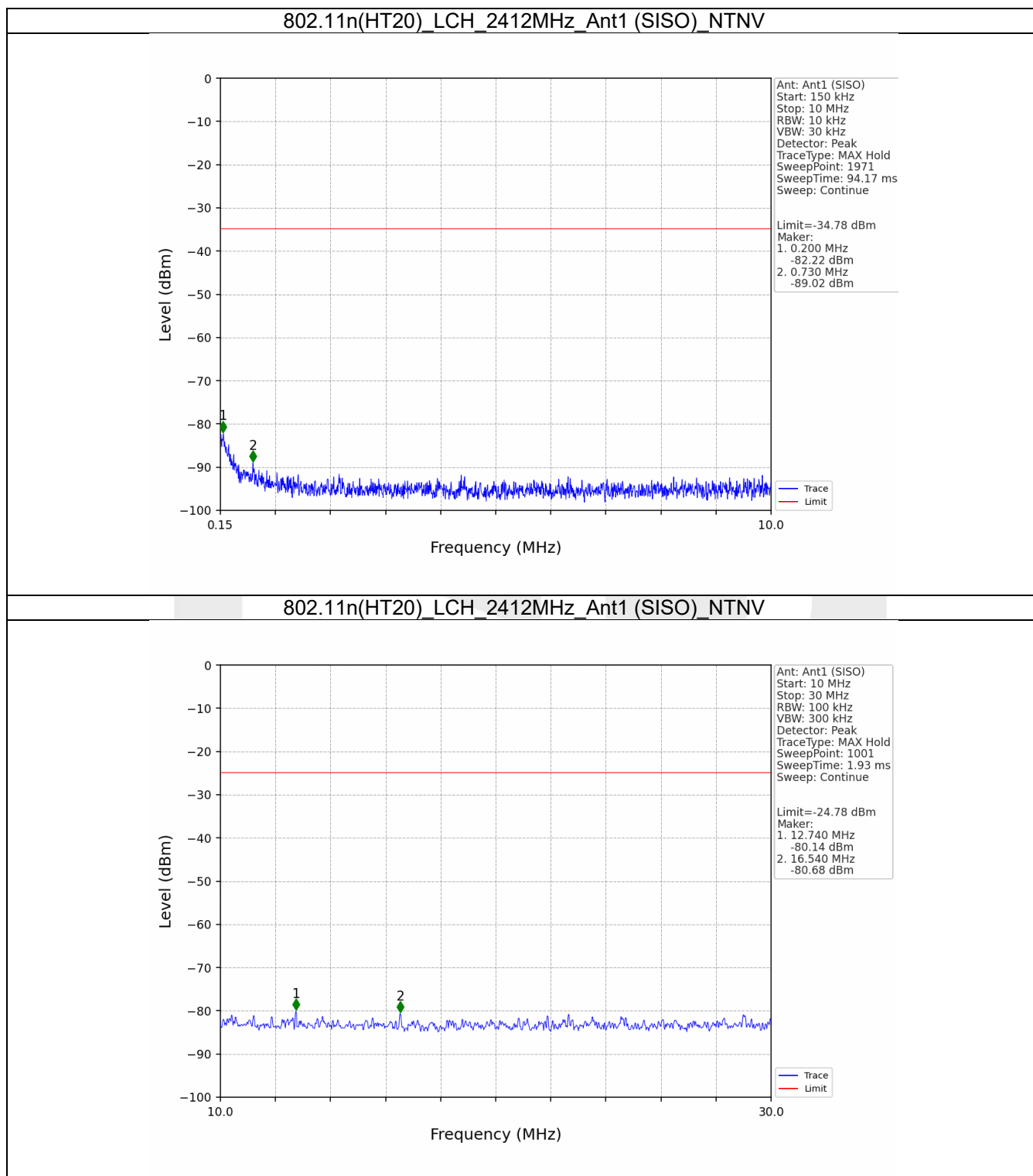


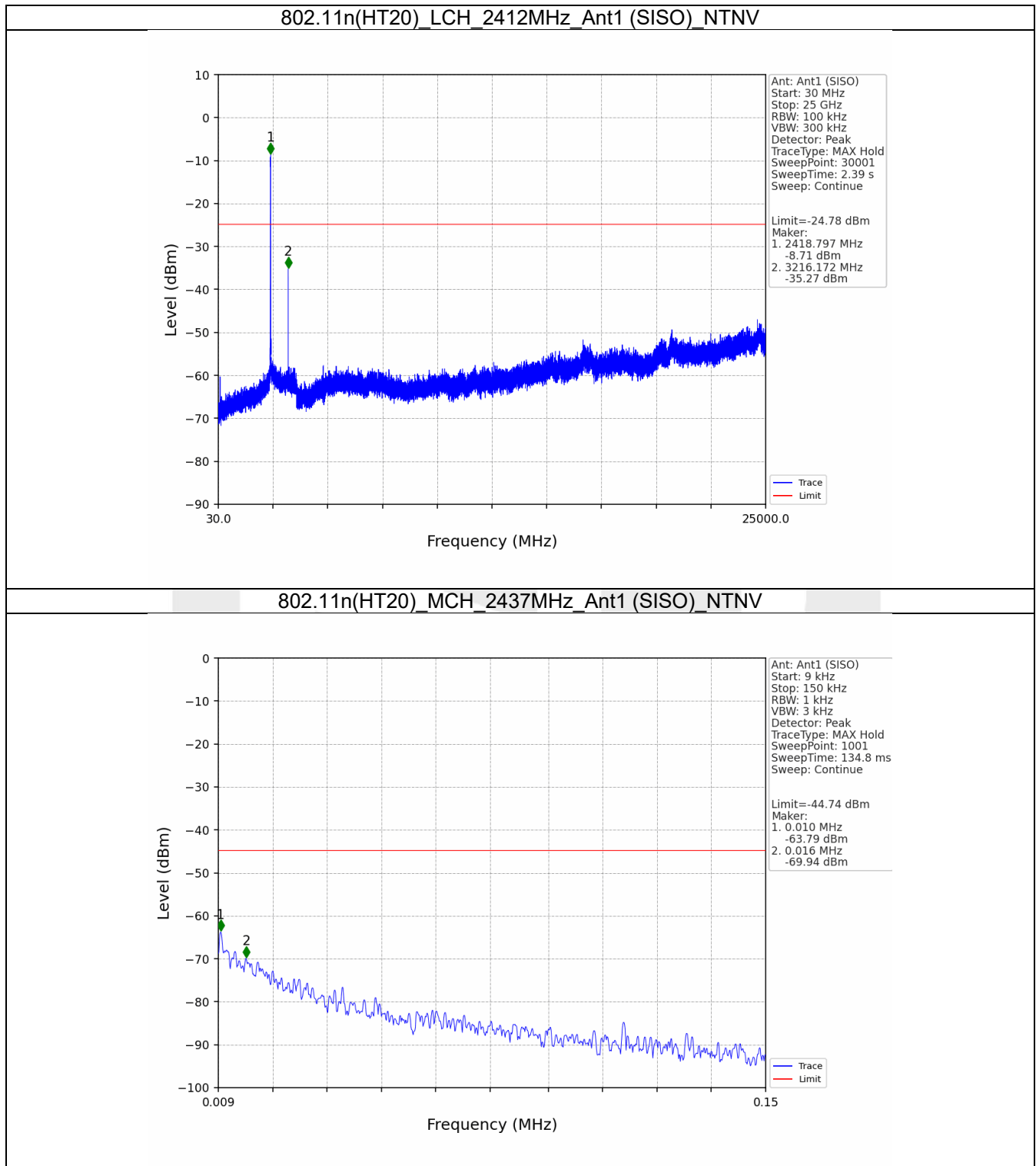


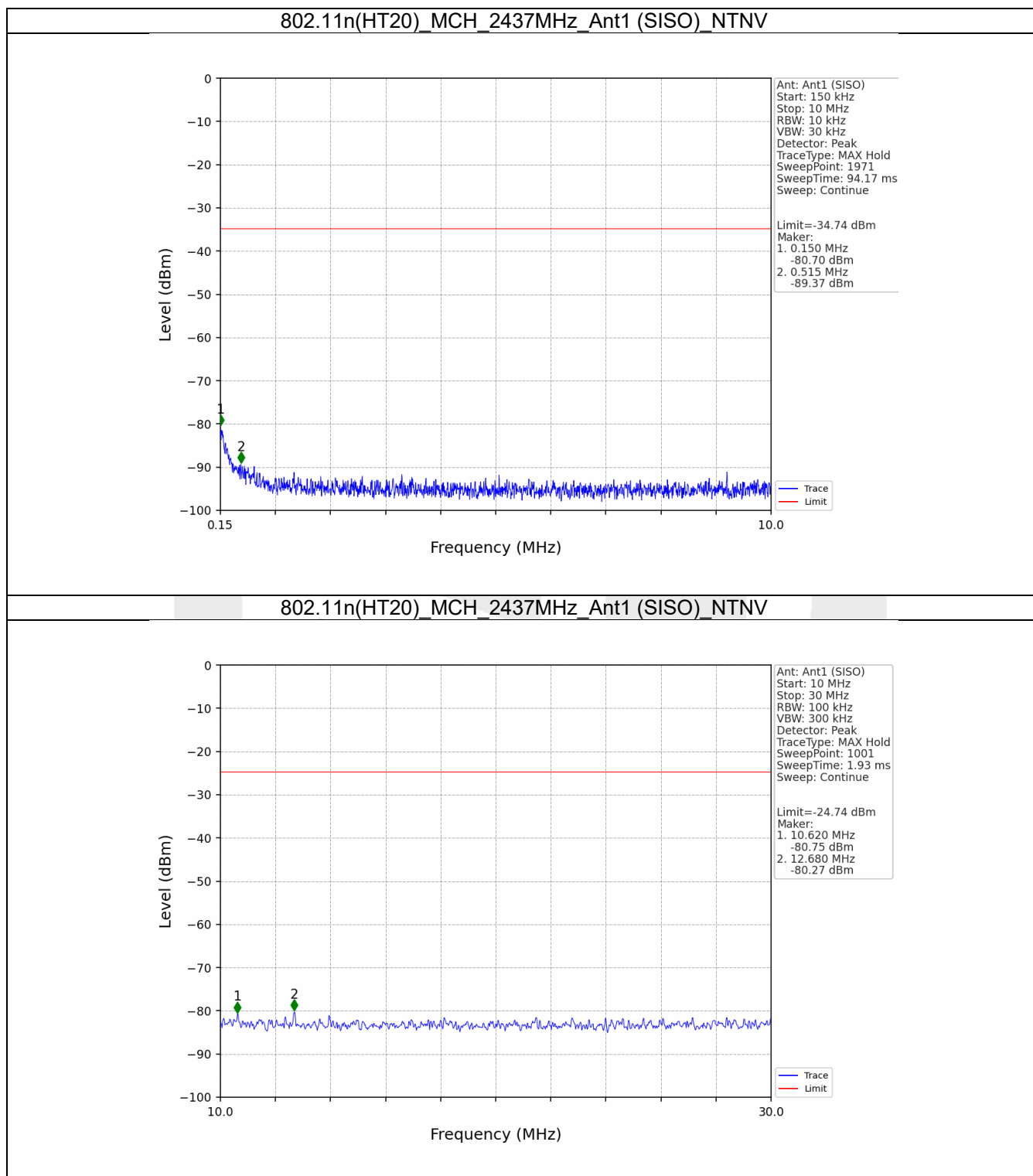


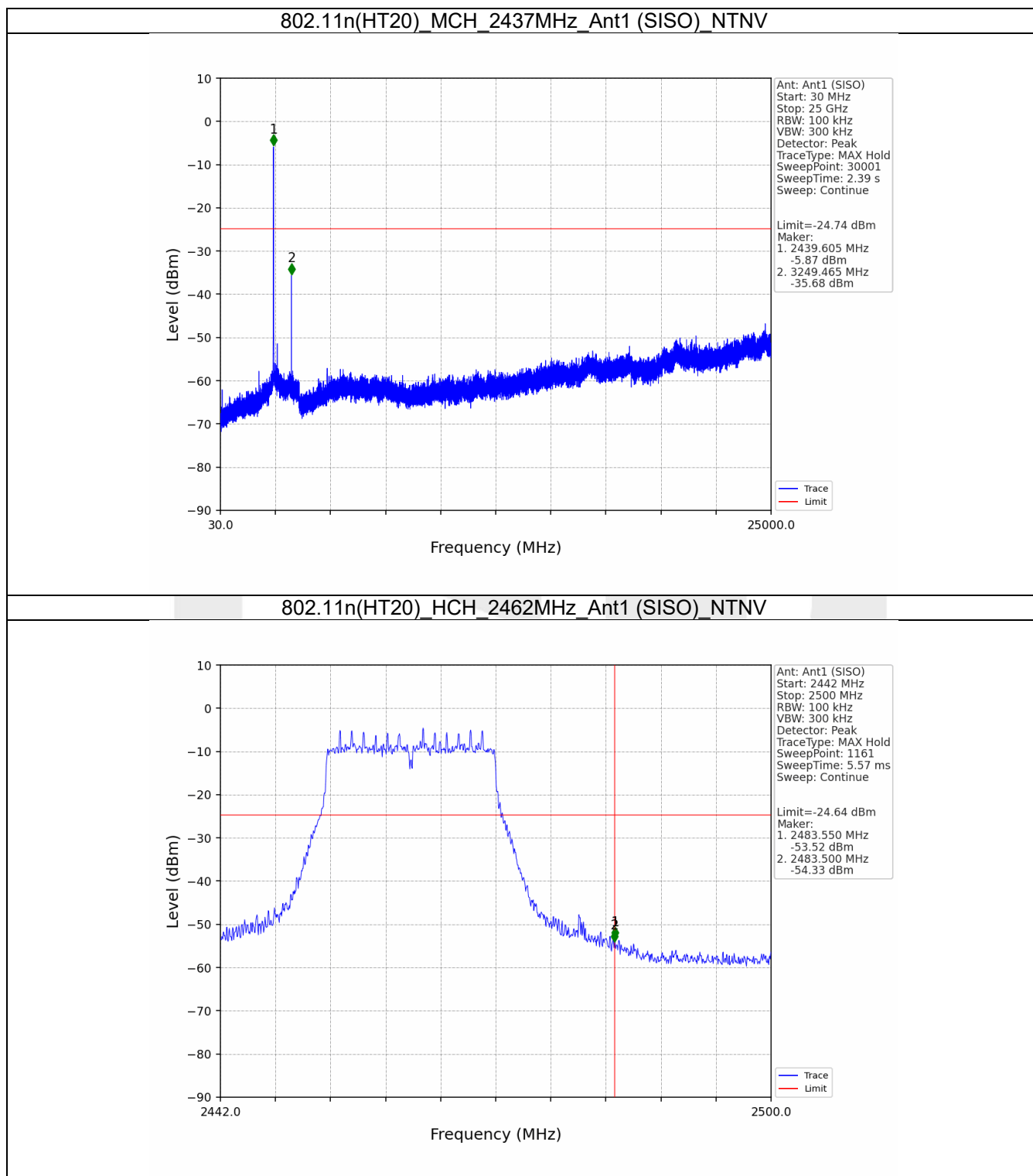


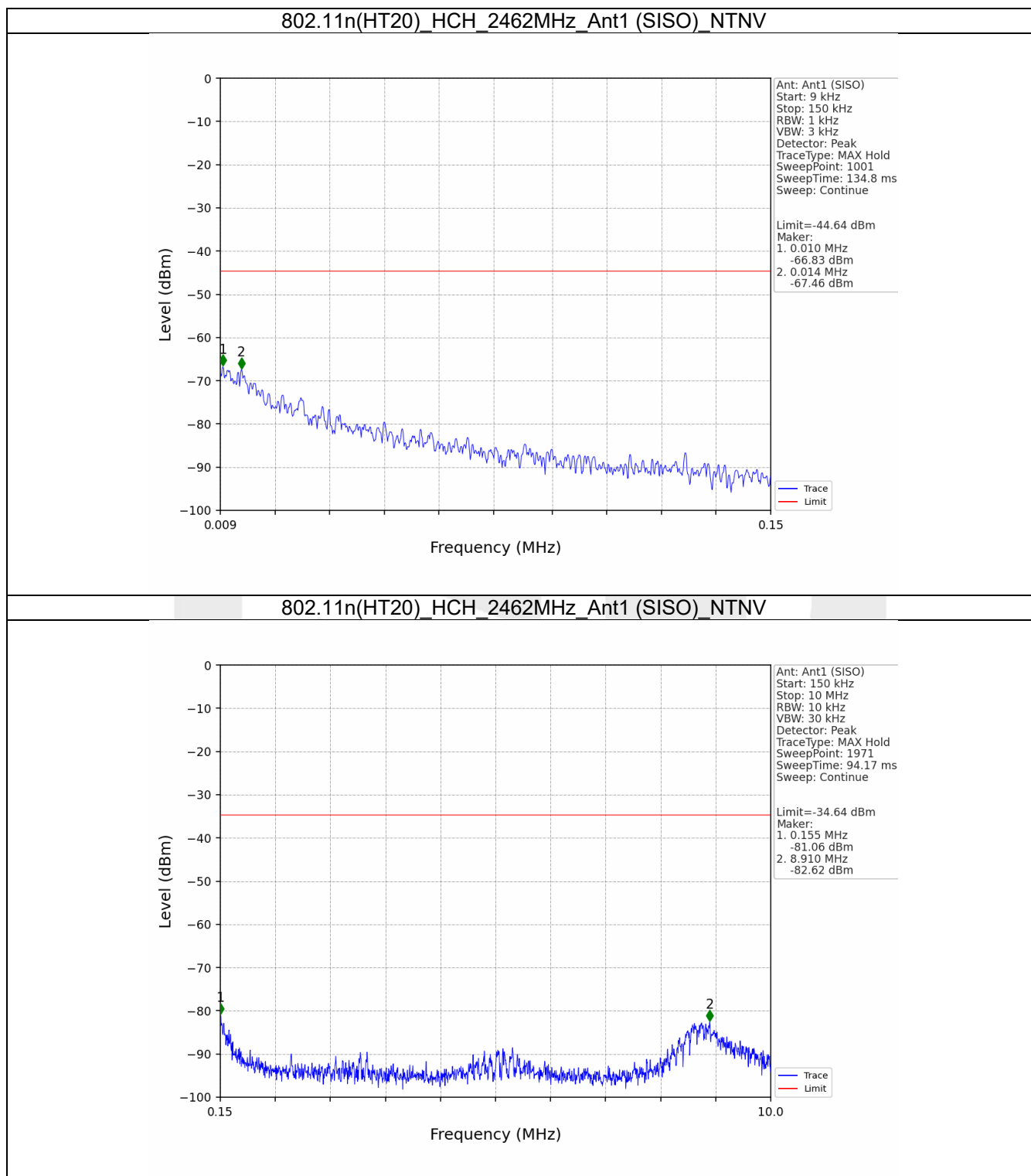


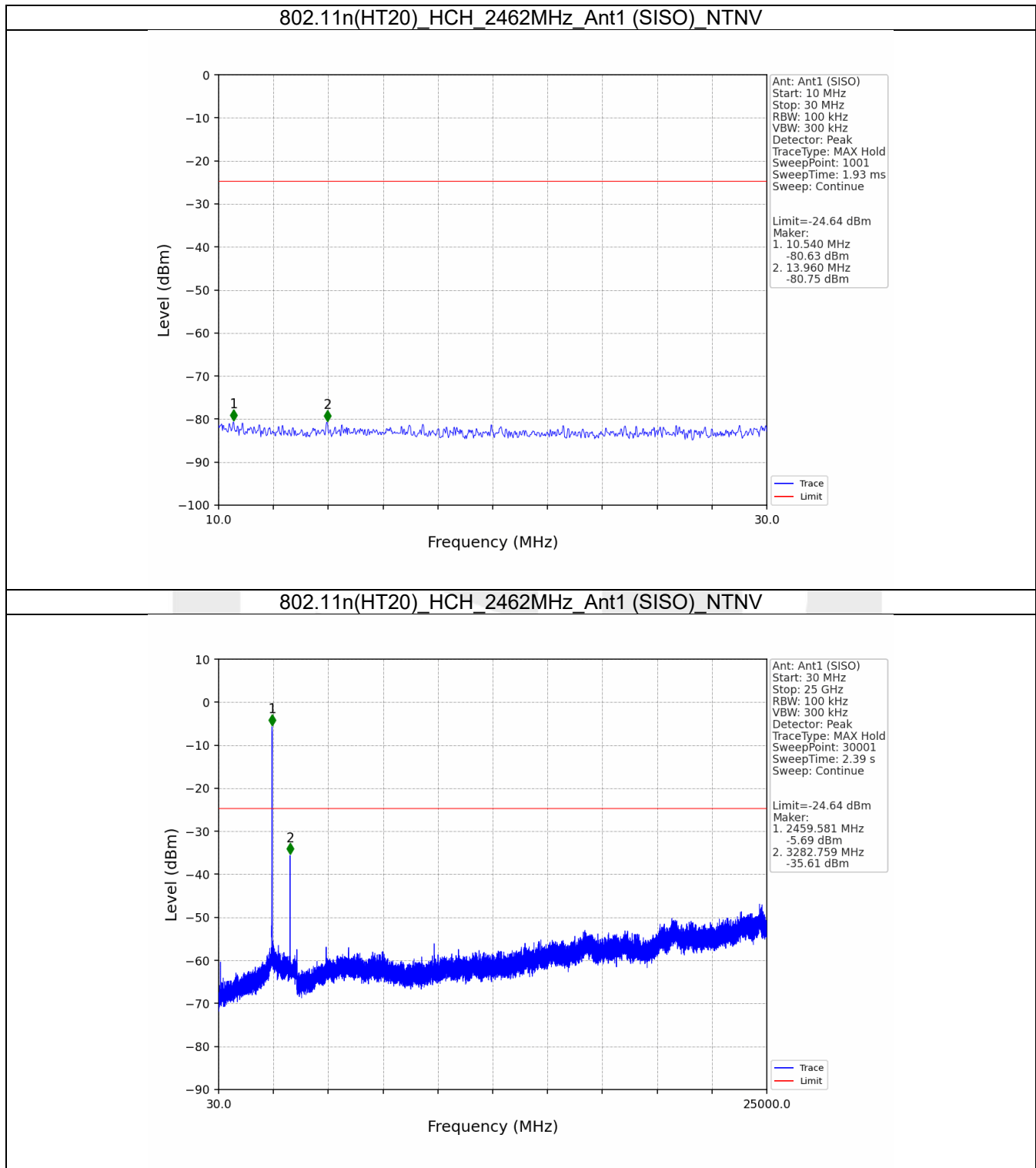


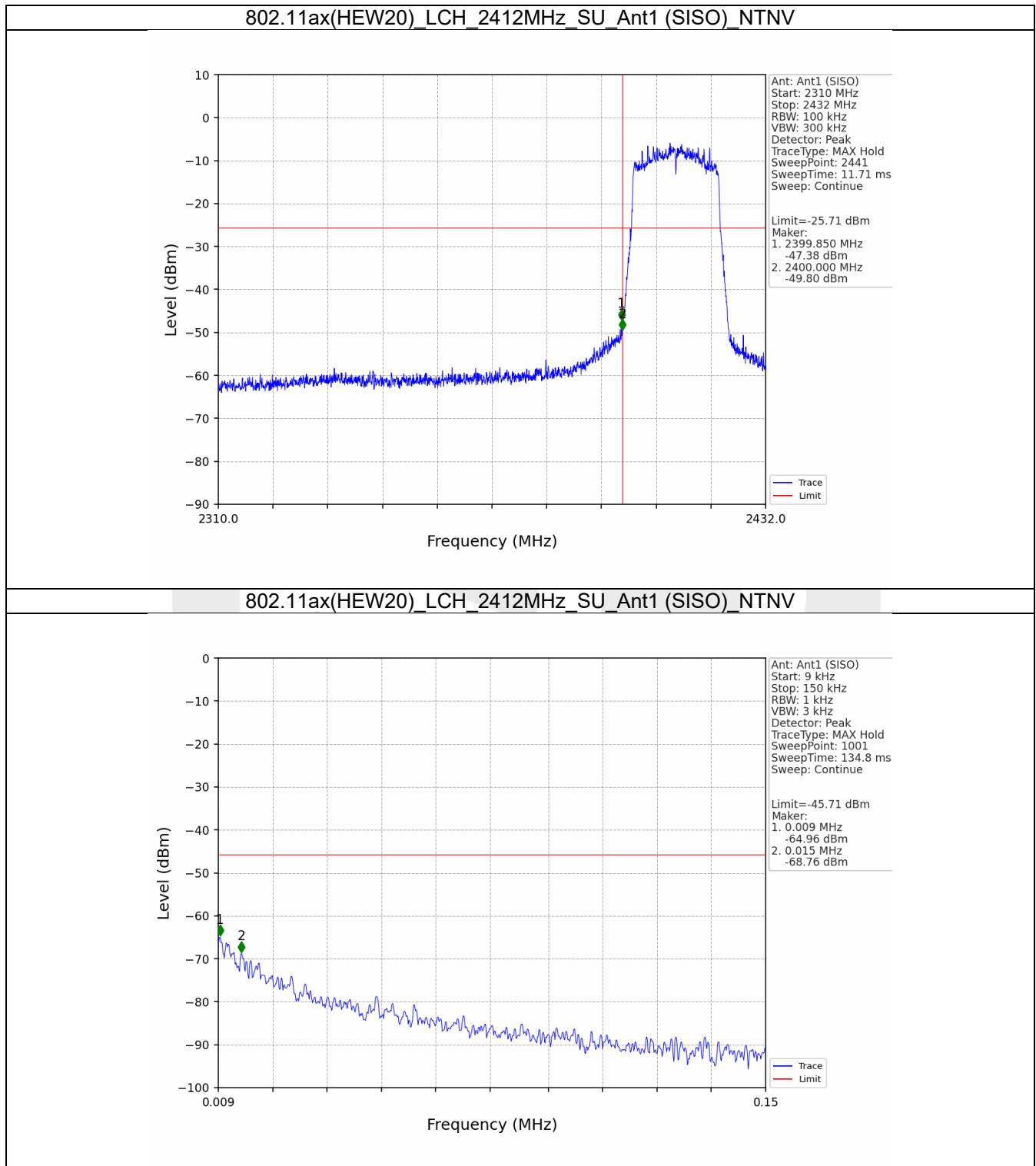


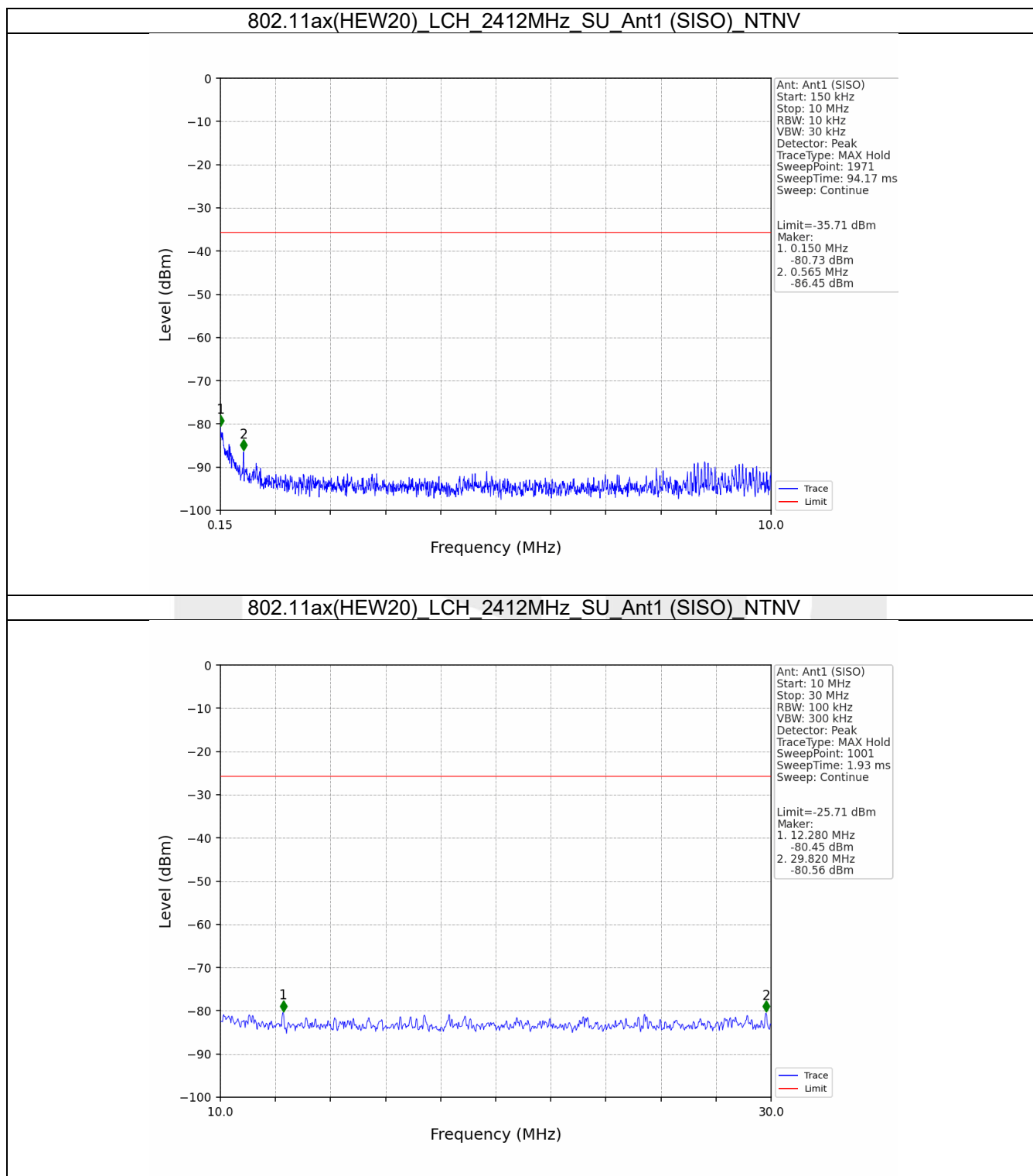


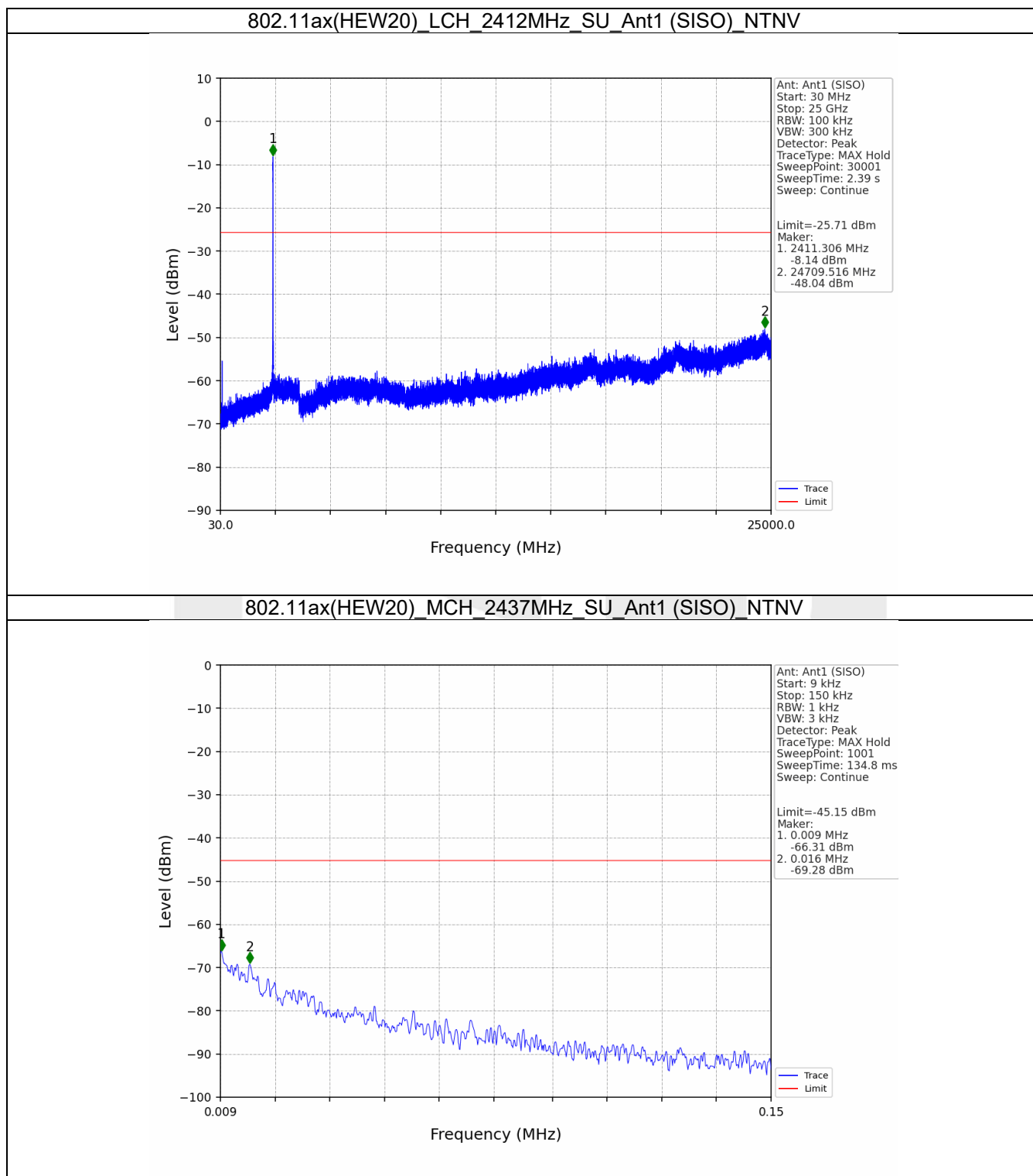


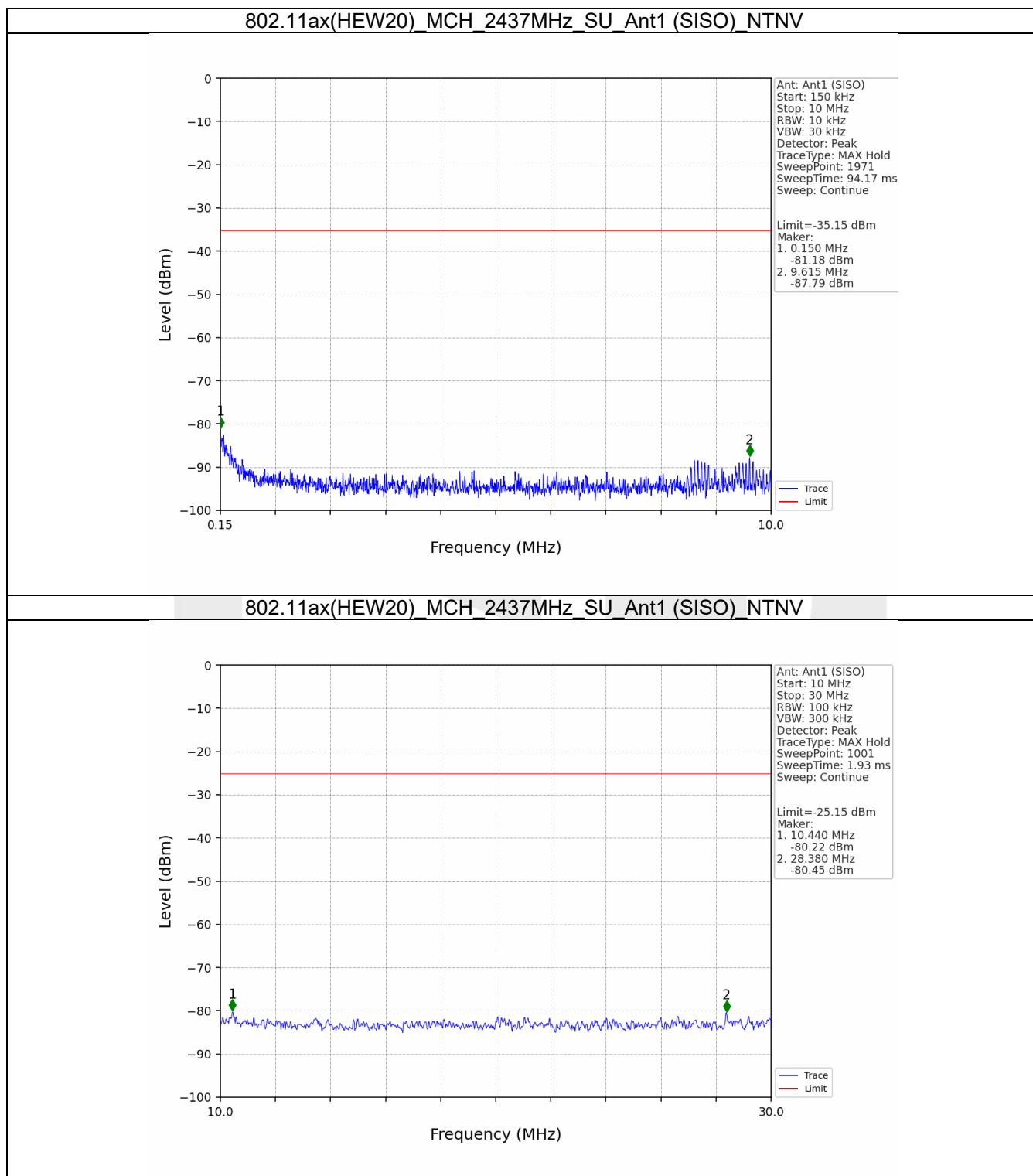


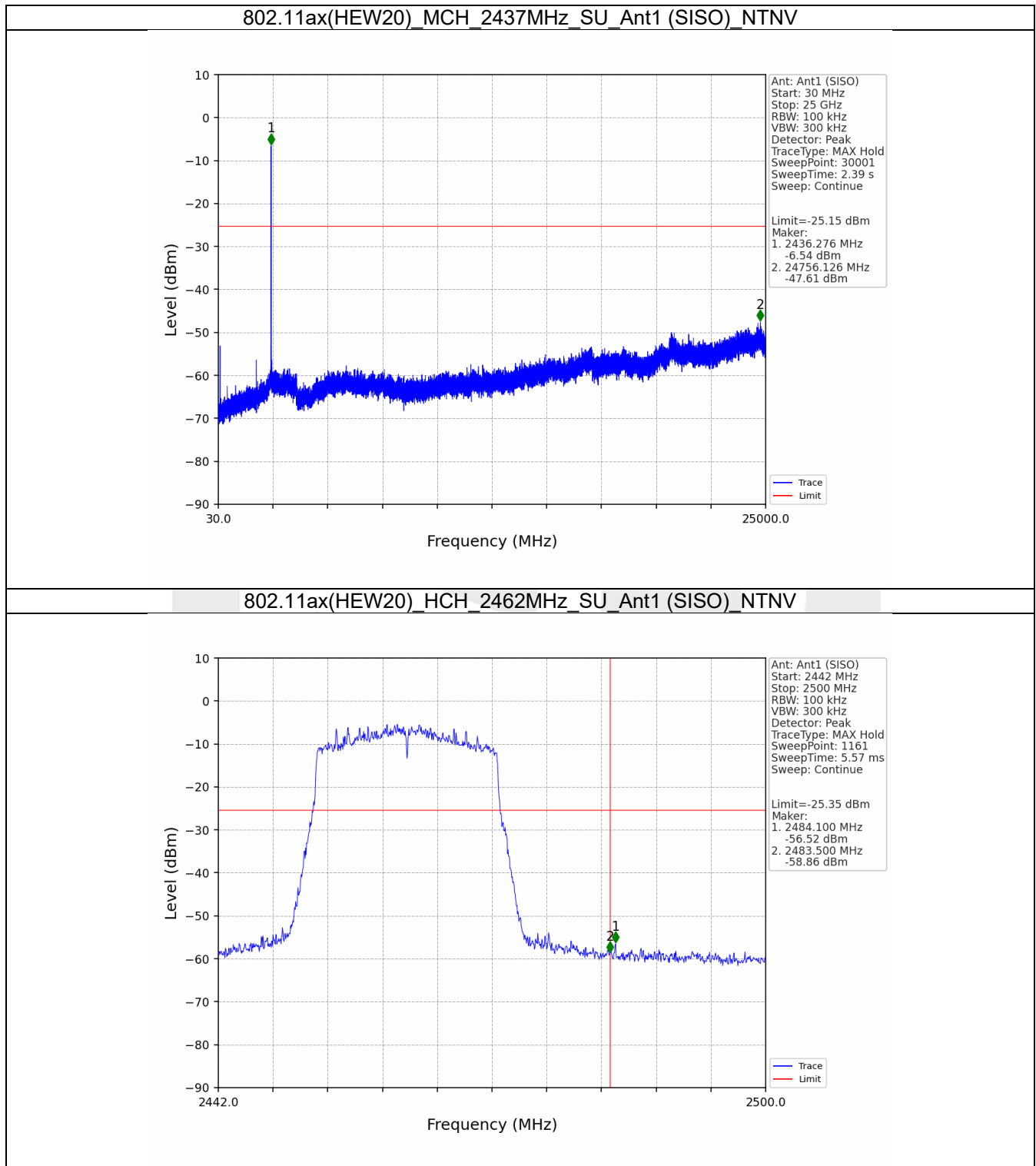


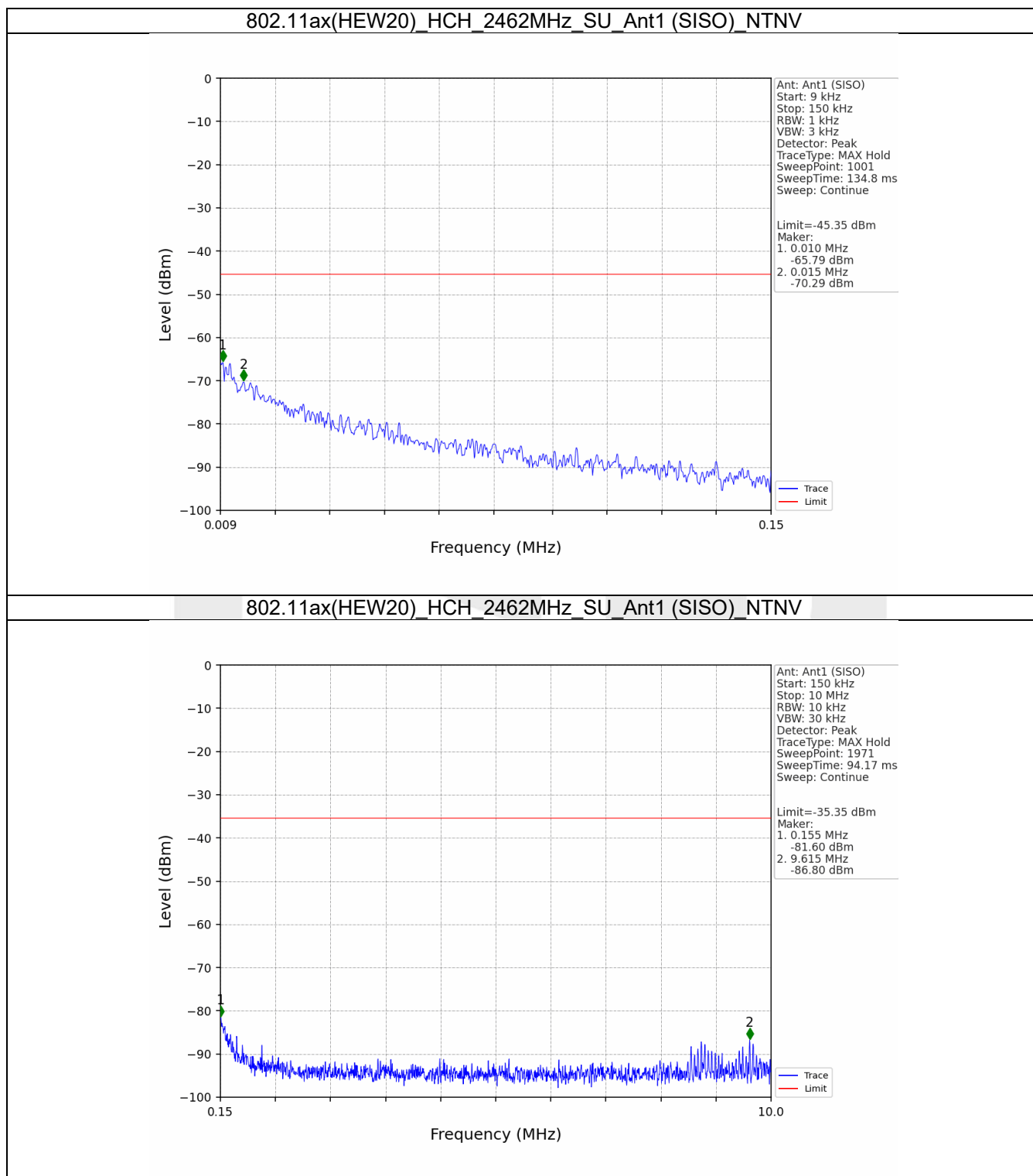


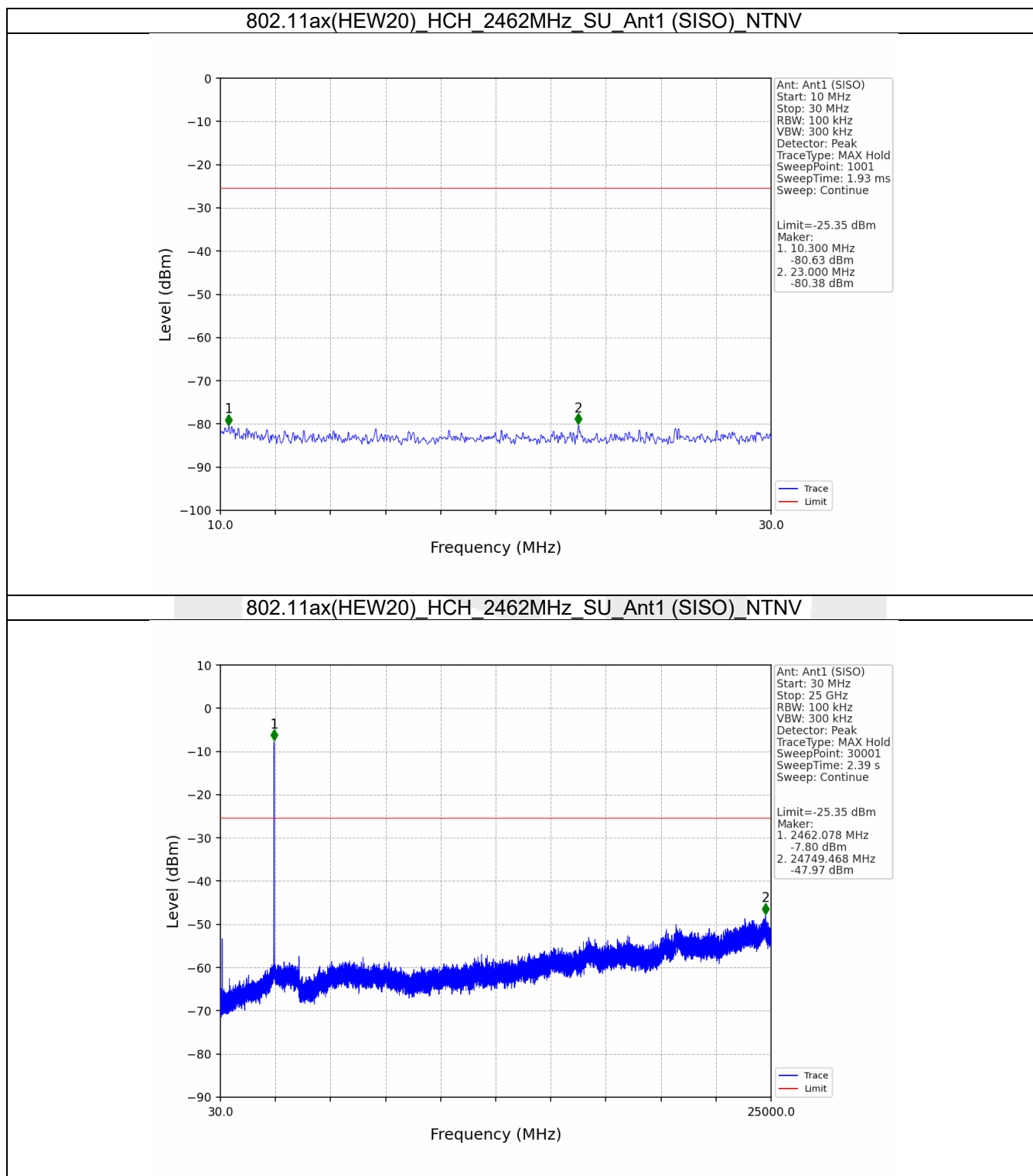












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