

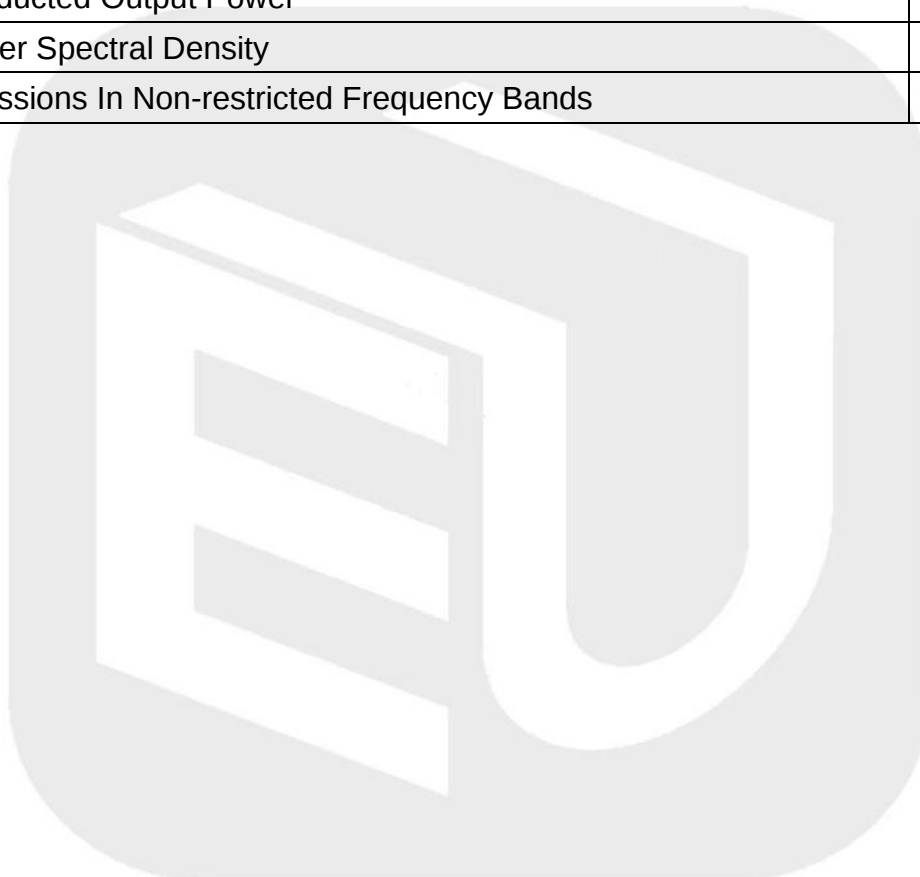
ANNEX E TEST DATA

For

Project No.:	8234EU013003W
Client:	Autel Intelligent Technology Corp., Ltd.
Product Description:	MaxiFlash VCMI2
Model No.:	MaxiFlash VCMI2
FCC ID:	WQ8-DC2333
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-11-13

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

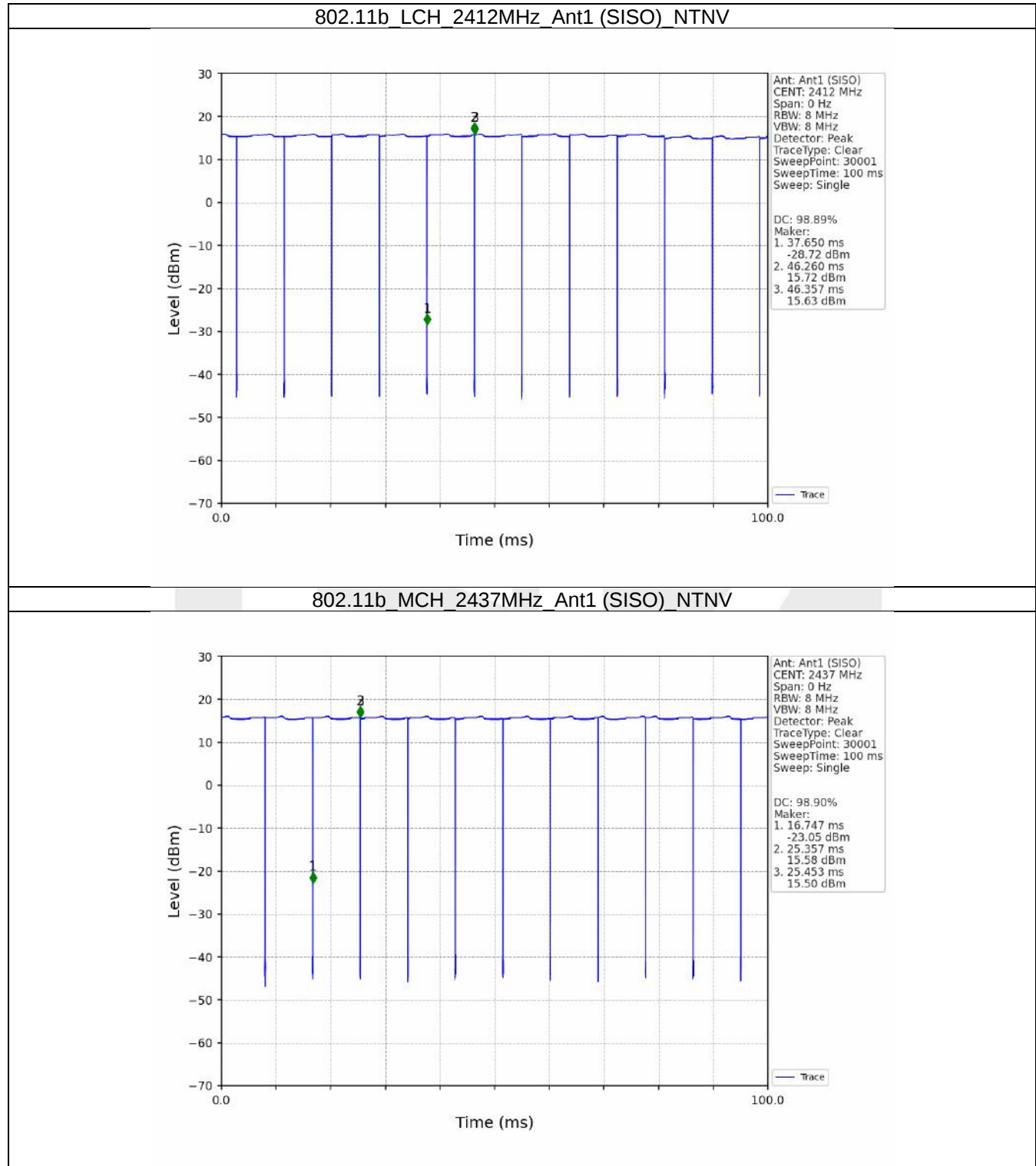
1.1 Test Result

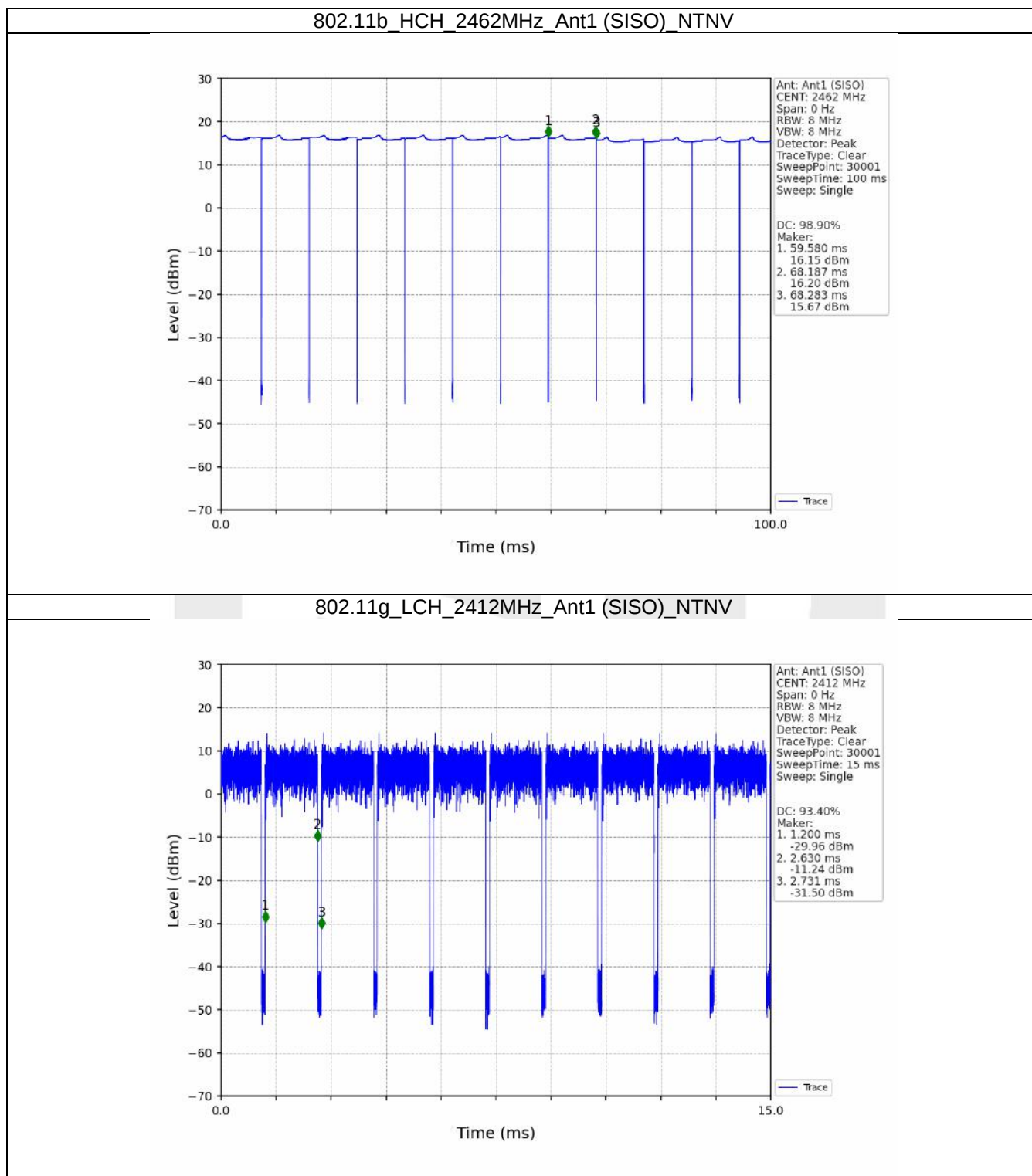
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.610	8.707	98.89	0.05	0.04
		2437	8.610	8.706	98.90	0.05	0.04
		2462	8.607	8.703	98.90	0.05	0.04
802.11g	SISO	2412	1.430	1.531	93.40	0.30	0.03
		2437	1.430	1.531	93.40	0.30	0.00
		2462	1.430	1.532	93.34	0.30	0.03
802.11n (HT20)	SISO	2412	1.338	1.439	92.98	0.32	0.00
		2437	1.337	1.439	92.91	0.32	0.00
		2462	1.338	1.440	92.92	0.32	0.03
802.11n (HT40)	SISO	2422	0.666	0.767	86.83	0.61	0.00
		2437	0.666	0.767	86.83	0.61	0.00
		2452	0.665	0.766	86.81	0.61	0.03

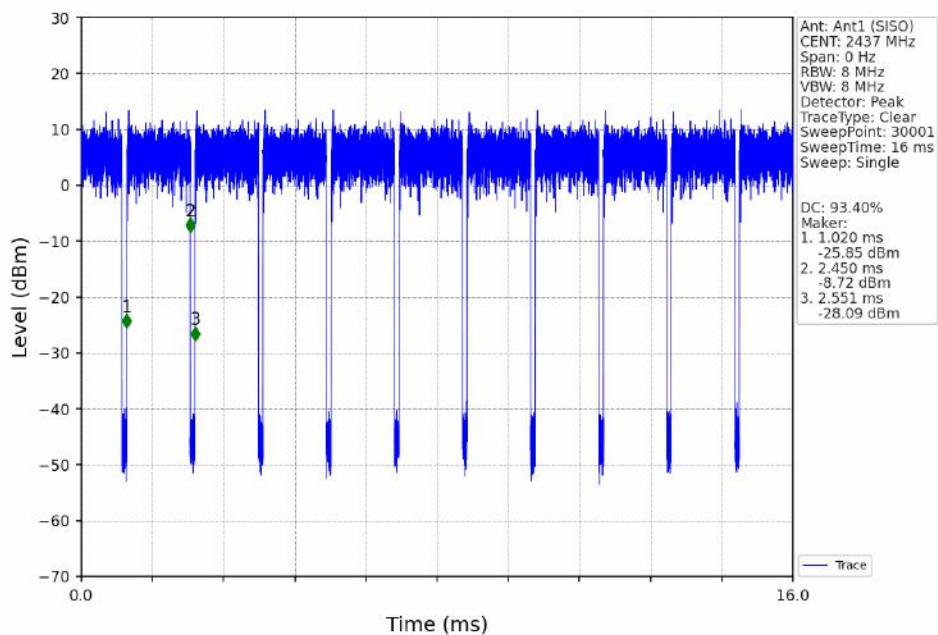
1.2 Test Graph

1.2.1 Ant1

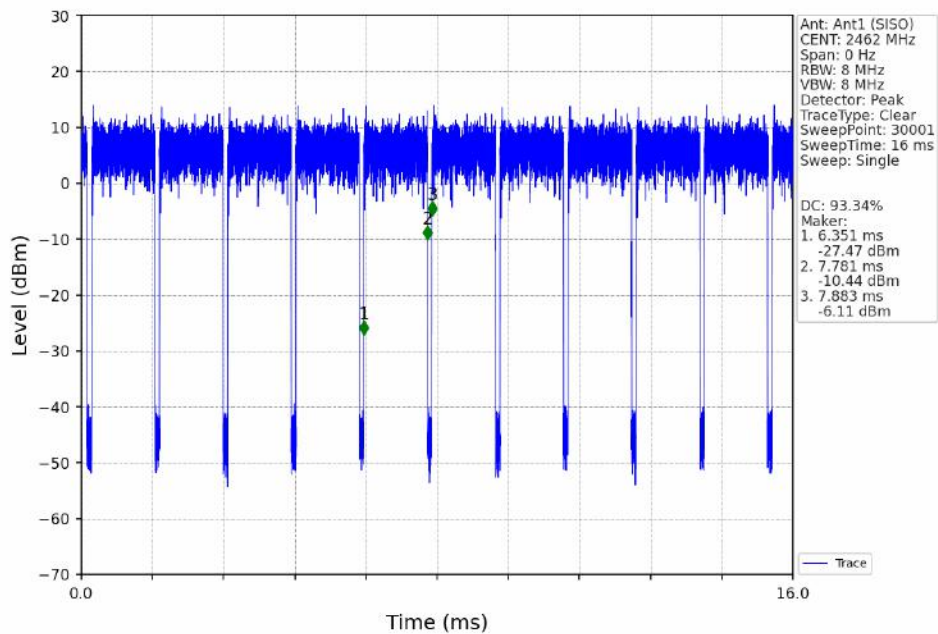




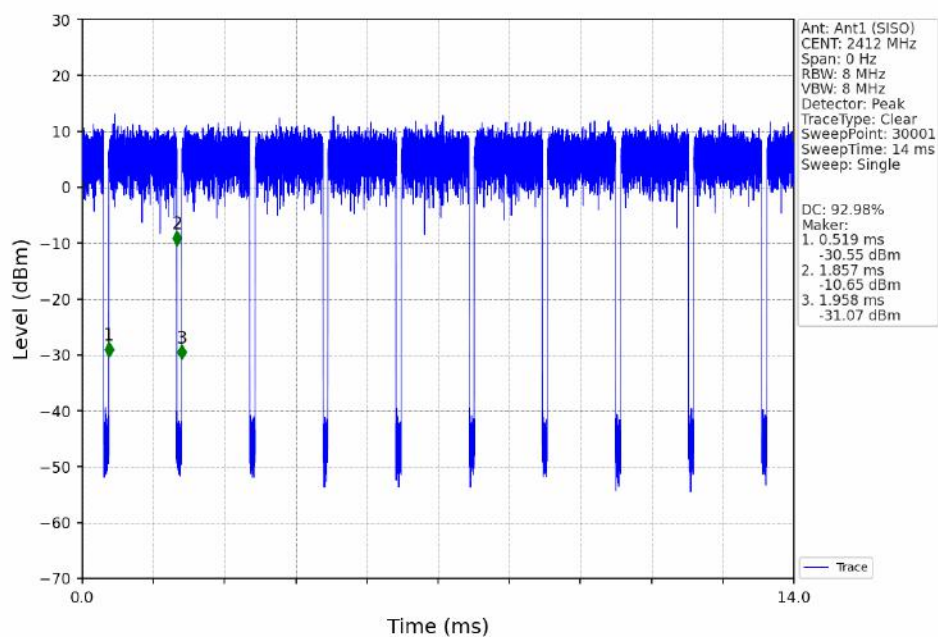
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



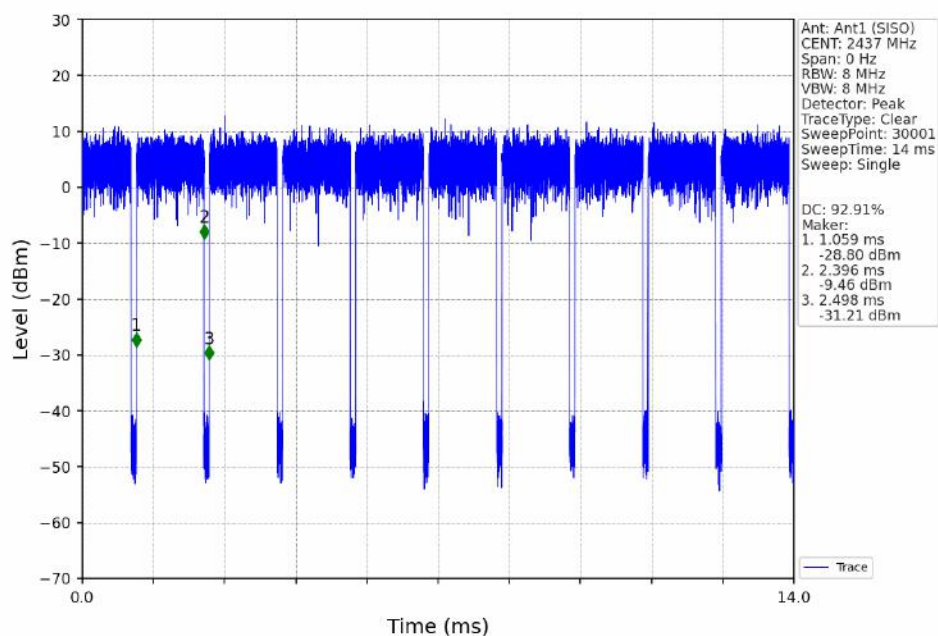
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

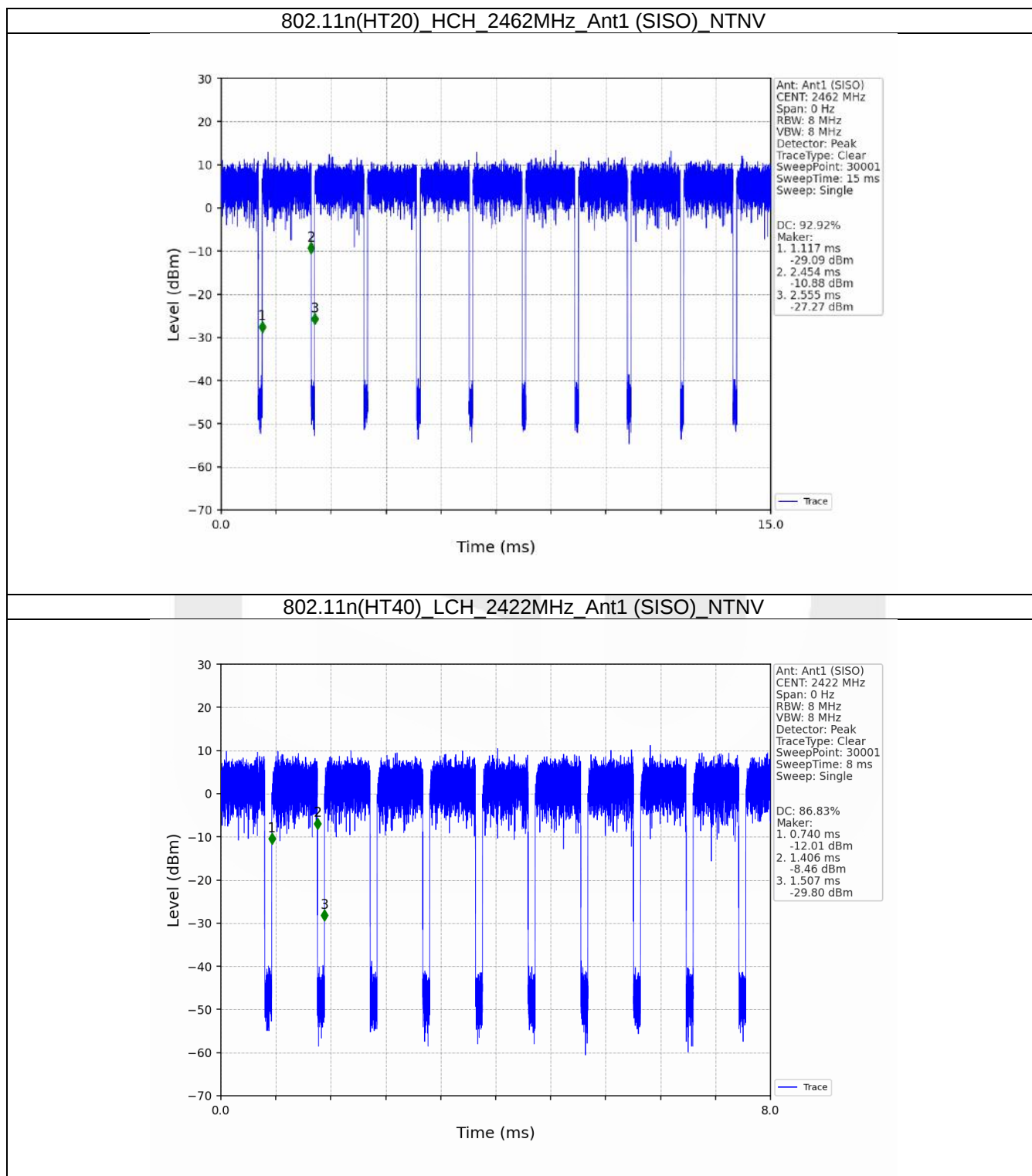


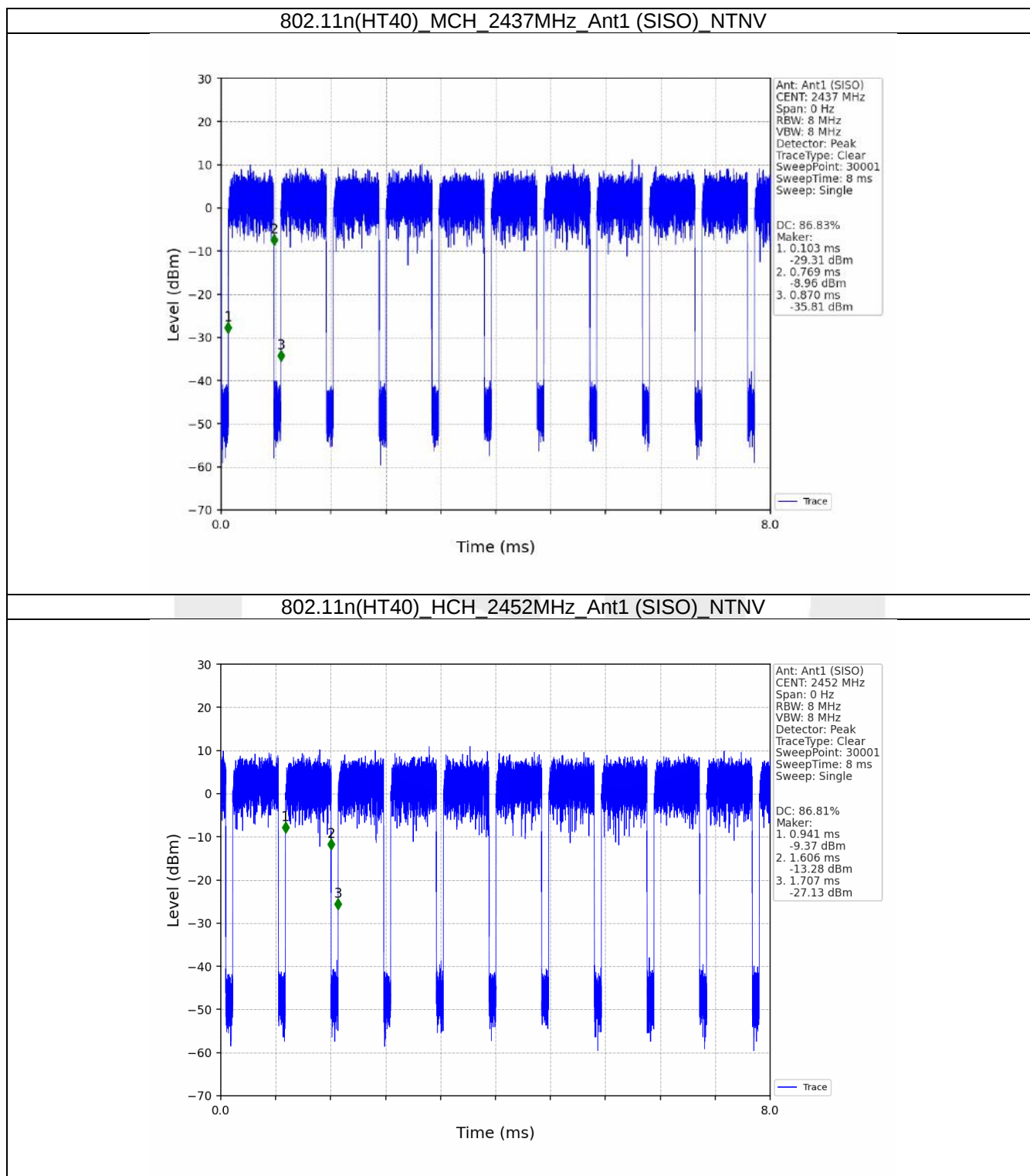
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV







2. Bandwidth

2.1 Test Result

2.1.1 OBW

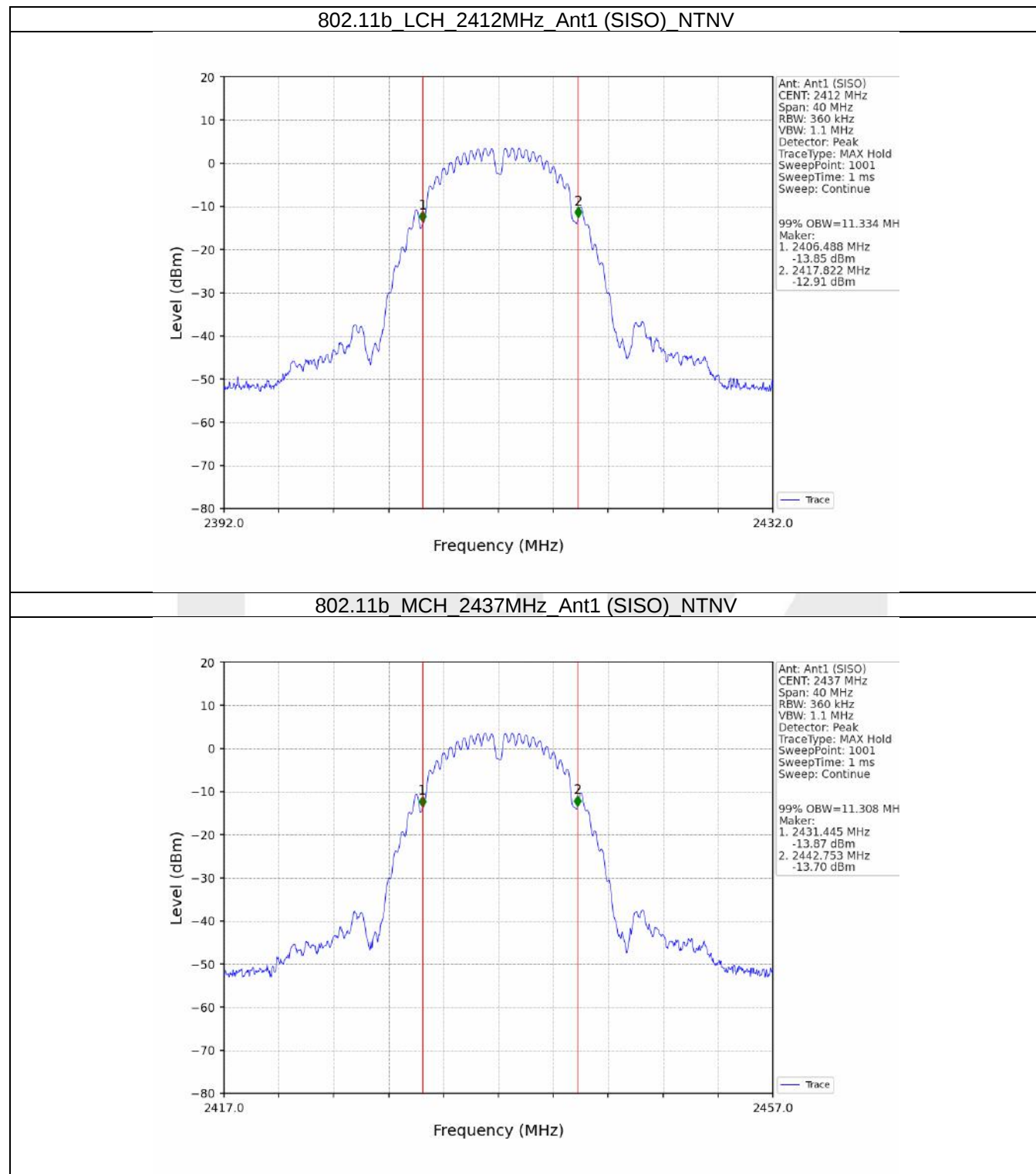
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	11.334	/	Pass
		2437	1	11.308	/	Pass
		2462	1	11.587	/	Pass
802.11g	SISO	2412	1	17.810	/	Pass
		2437	1	18.025	/	Pass
		2462	1	17.671	/	Pass
802.11n (HT20)	SISO	2412	1	18.485	/	Pass
		2437	1	18.747	/	Pass
		2462	1	18.449	/	Pass
802.11n (HT40)	SISO	2422	1	36.559	/	Pass
		2437	1	36.653	/	Pass
		2452	1	36.633	/	Pass

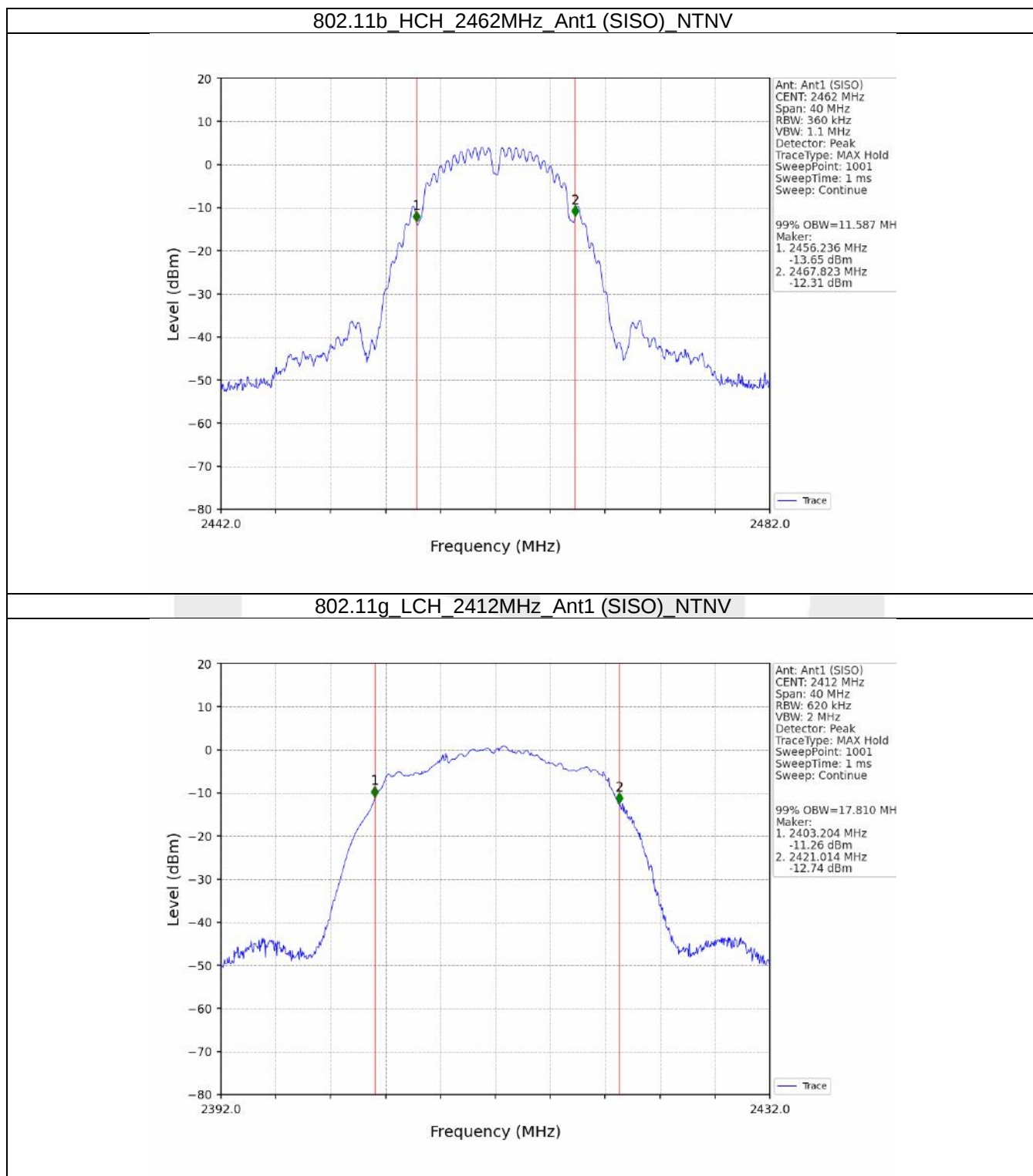
2.1.2 6dB BW

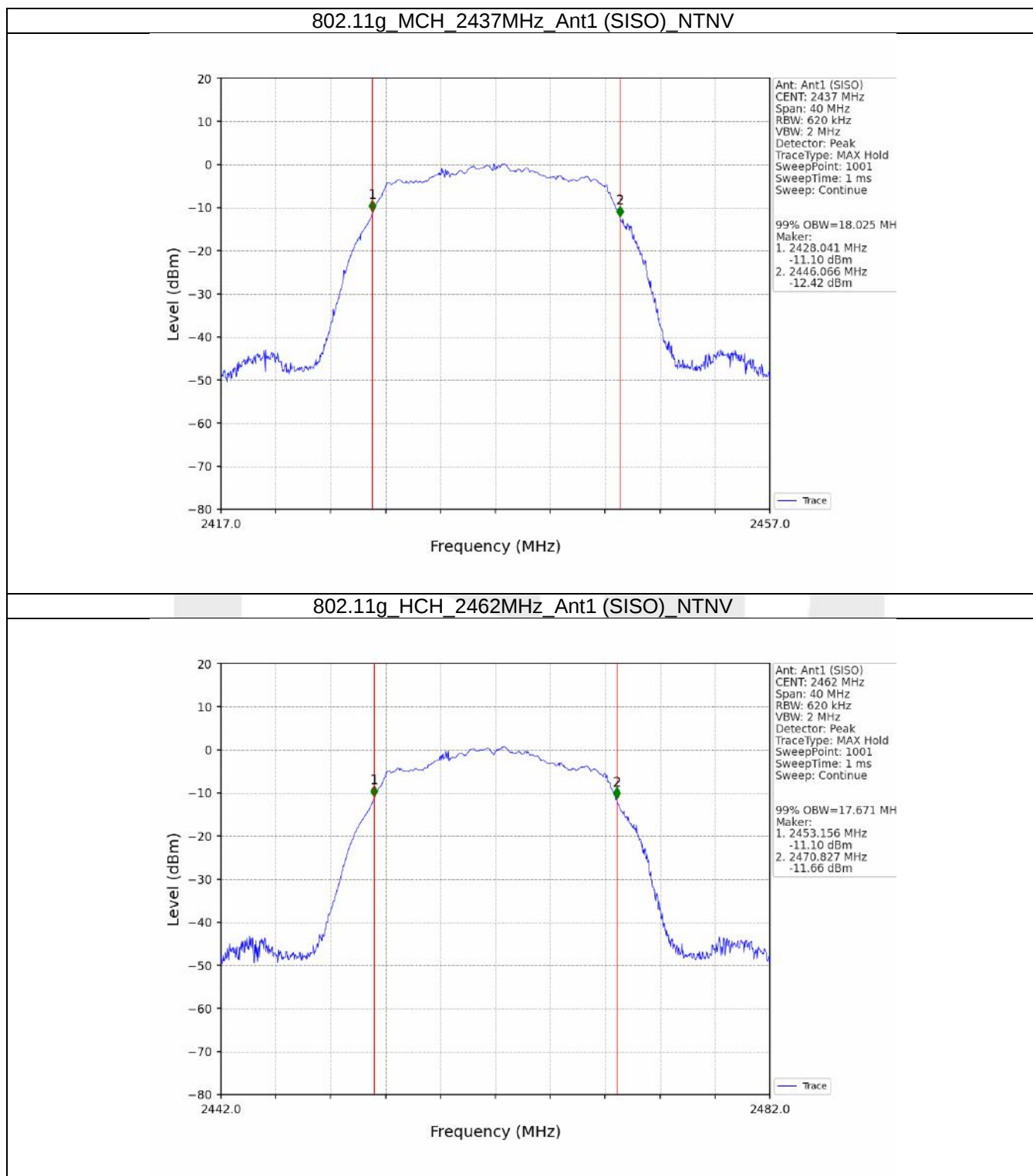
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.303	≥ 0.5	Pass
		2437	1	8.302	≥ 0.5	Pass
		2462	1	8.315	≥ 0.5	Pass
802.11g	SISO	2412	1	12.961	≥ 0.5	Pass
		2437	1	16.319	≥ 0.5	Pass
		2462	1	15.388	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.848	≥ 0.5	Pass
		2437	1	17.394	≥ 0.5	Pass
		2462	1	15.666	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.998	≥ 0.5	Pass
		2437	1	35.966	≥ 0.5	Pass
		2452	1	35.824	≥ 0.5	Pass

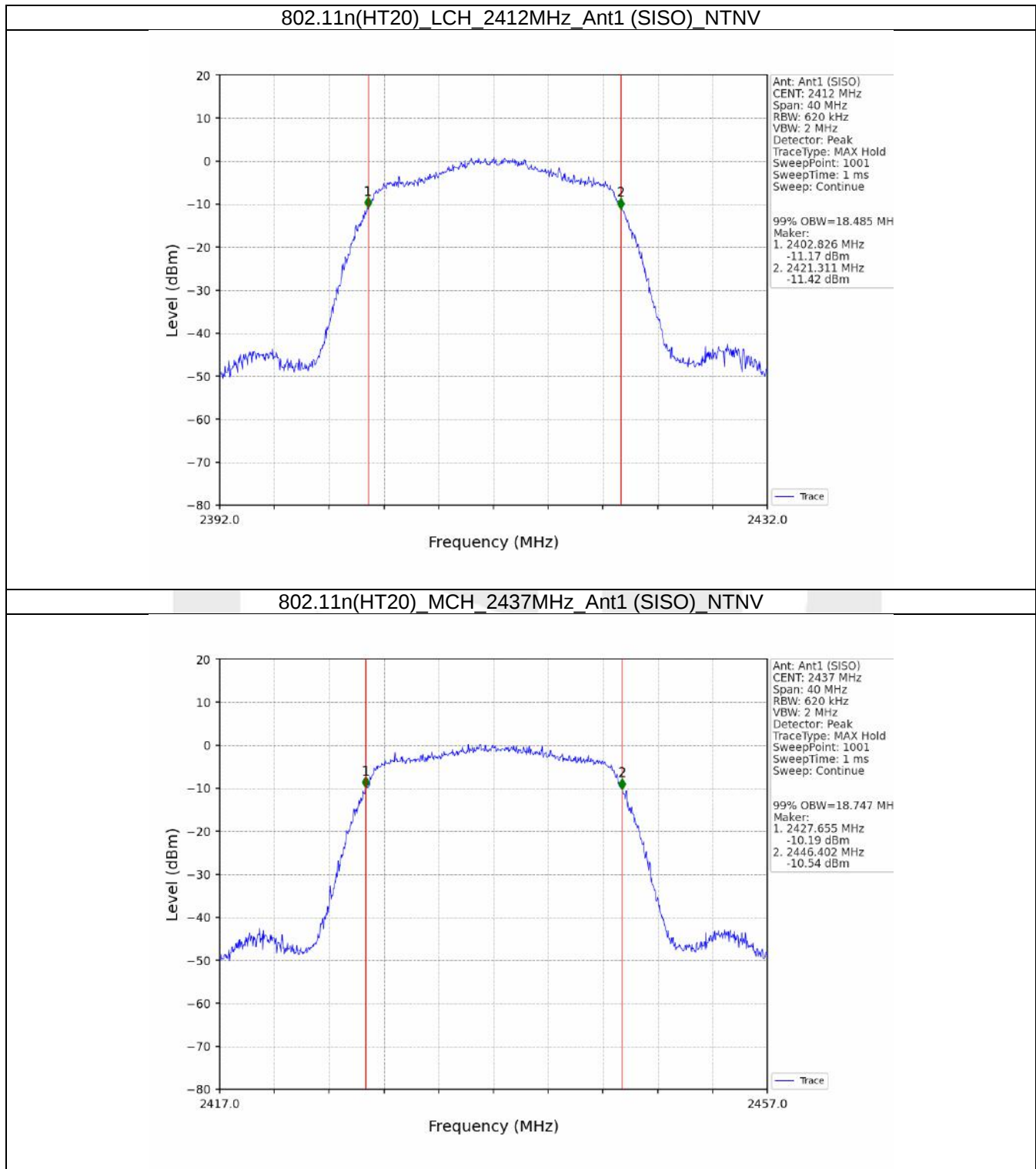
2.2 Test Graph

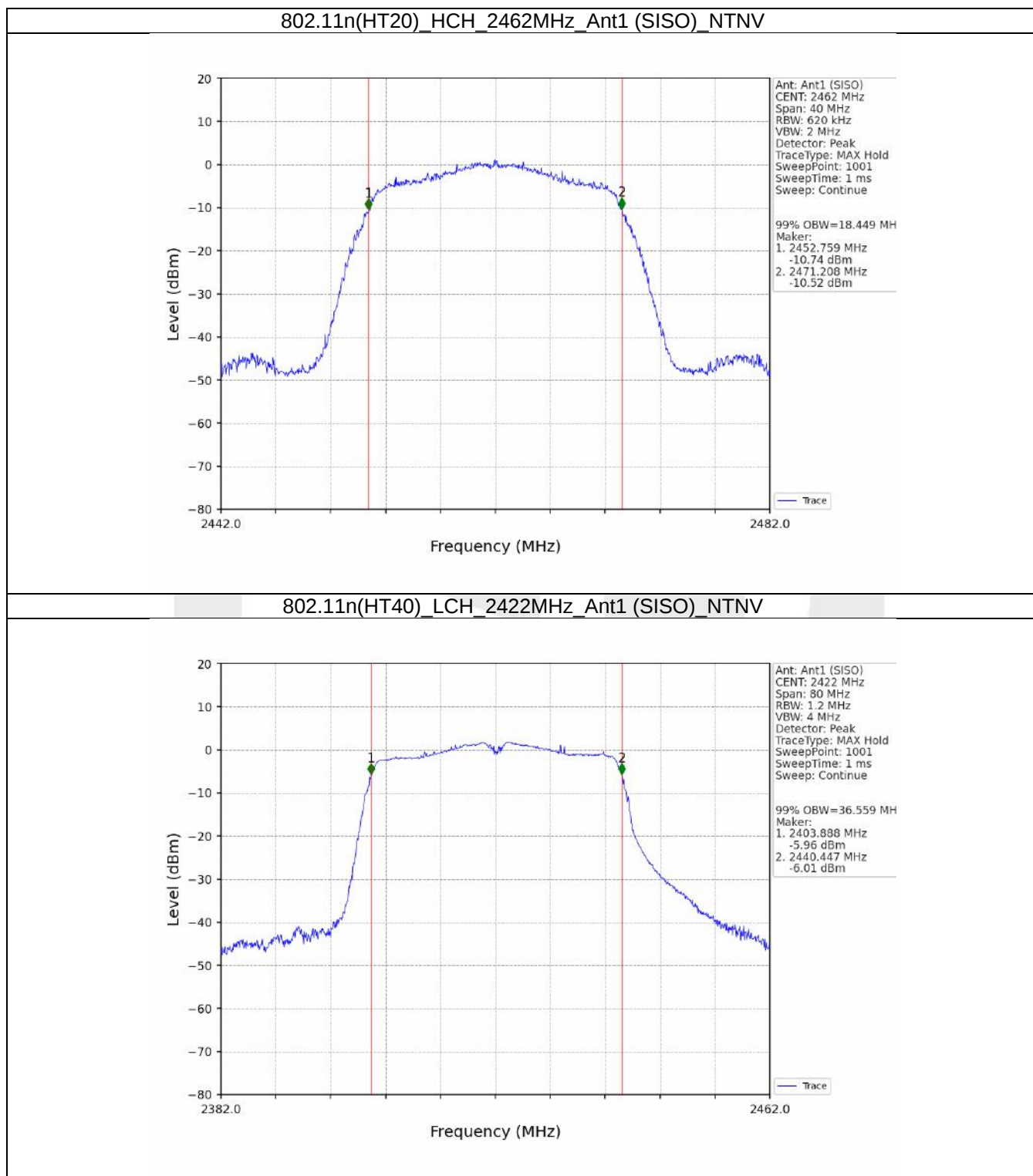
2.2.1 OBW

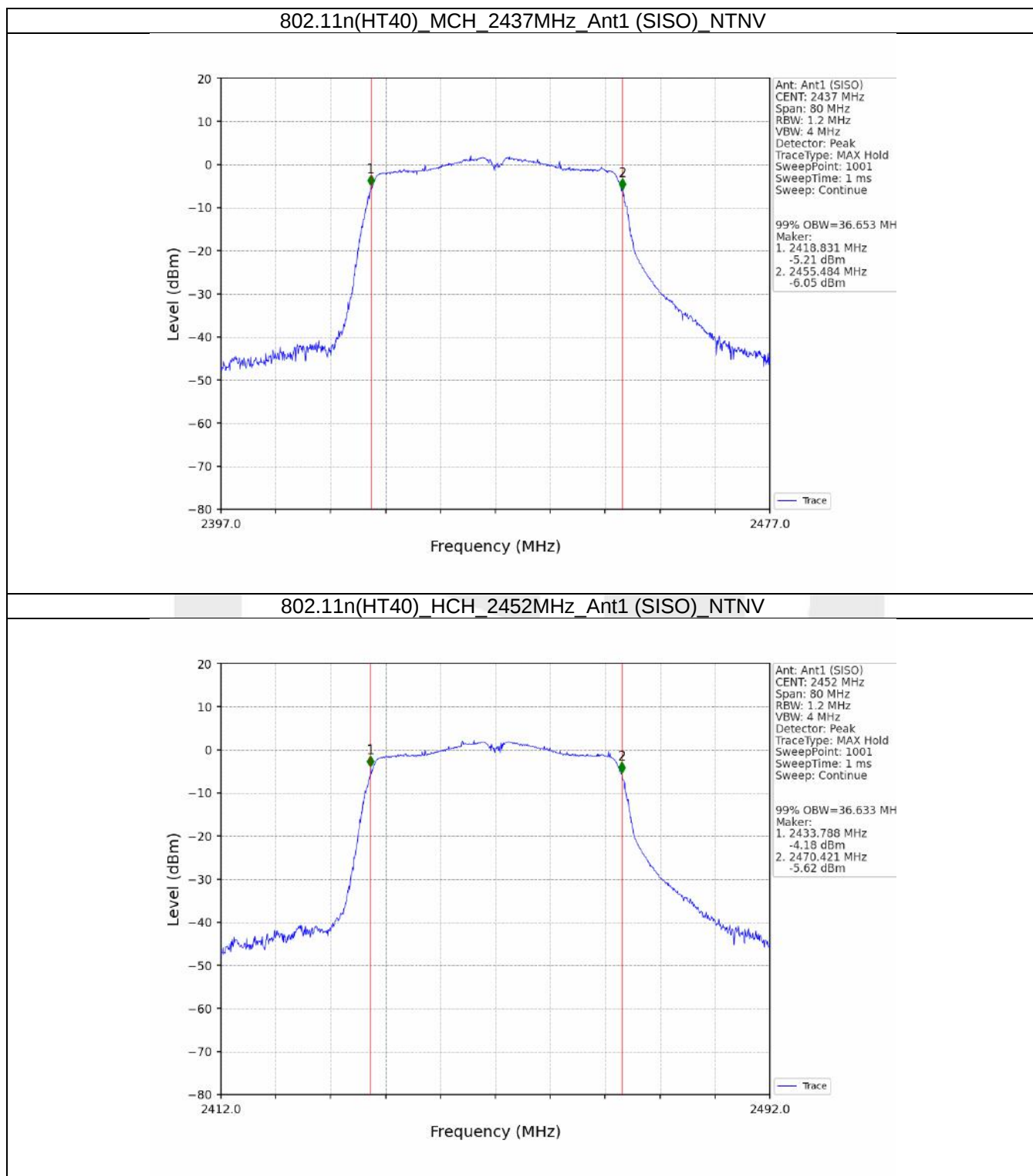




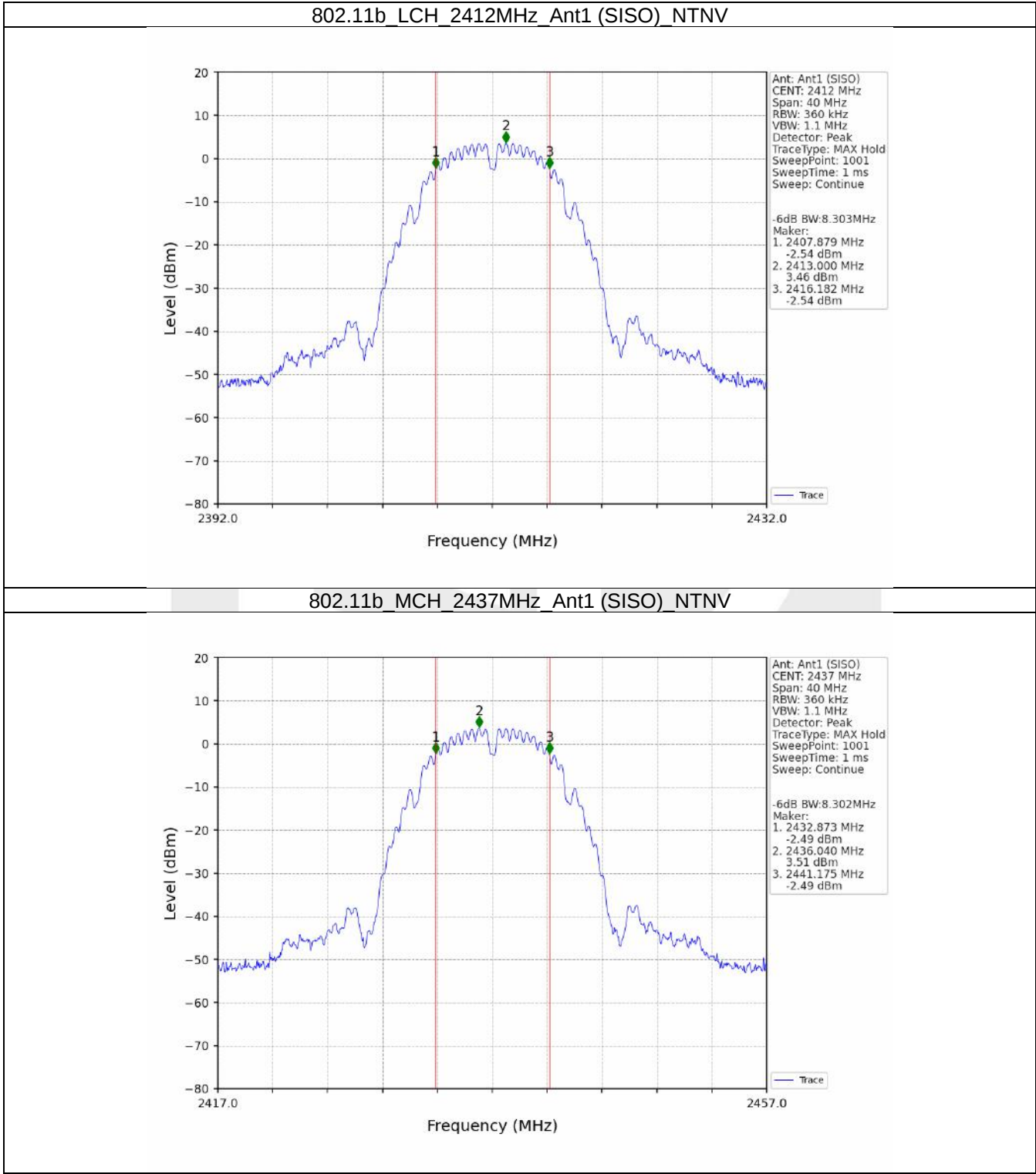




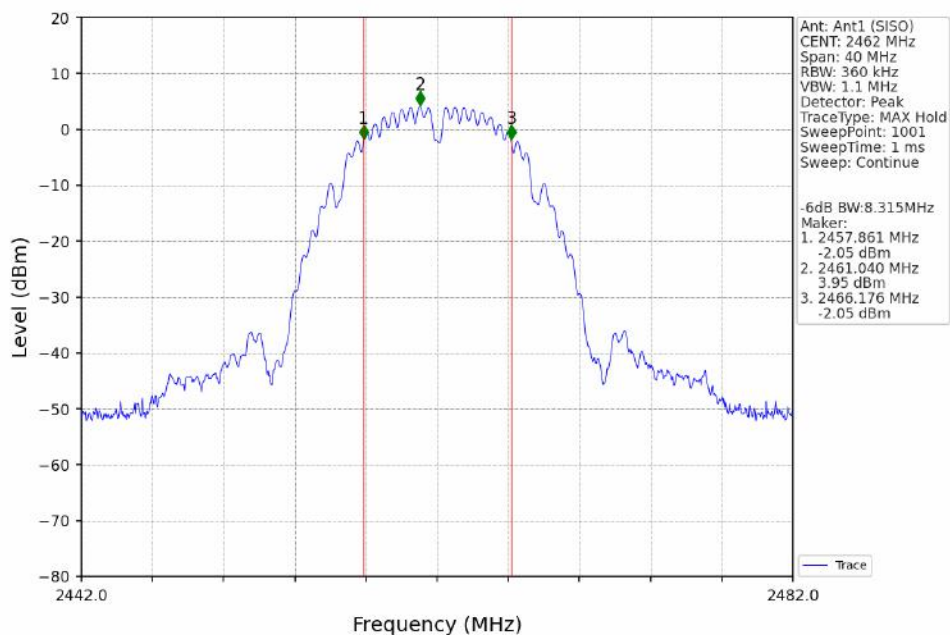




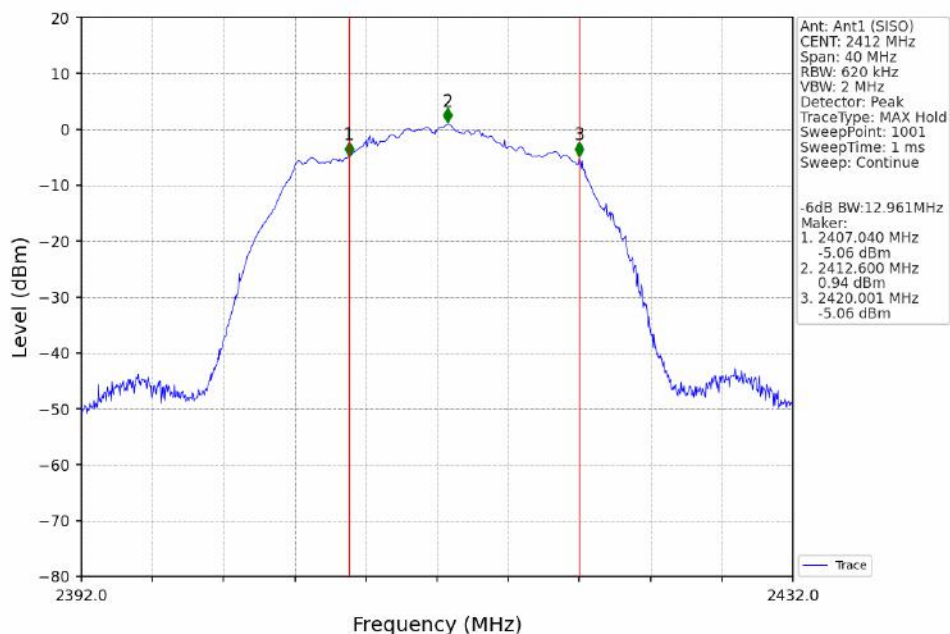
2.2.2 6dB BW



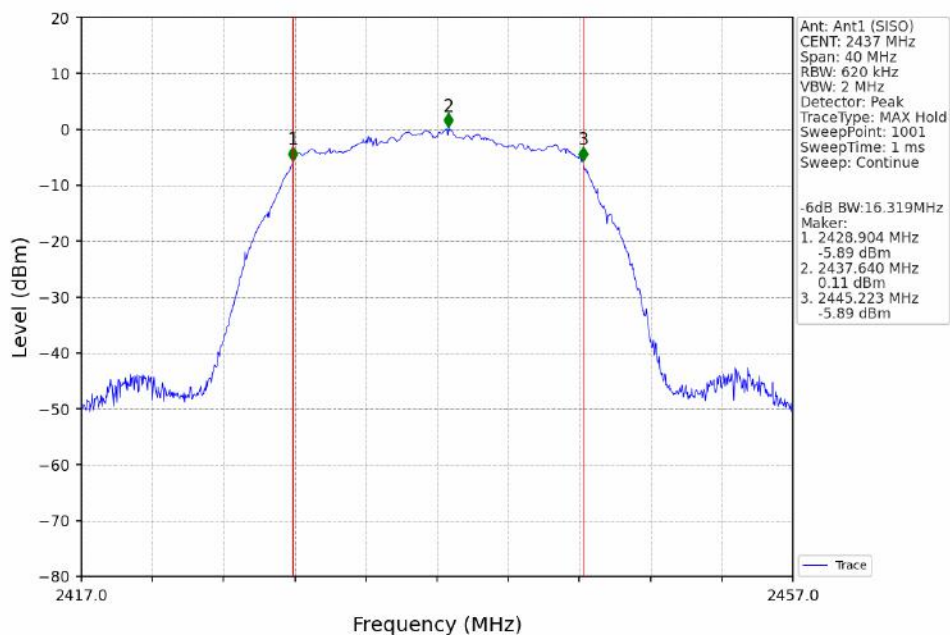
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



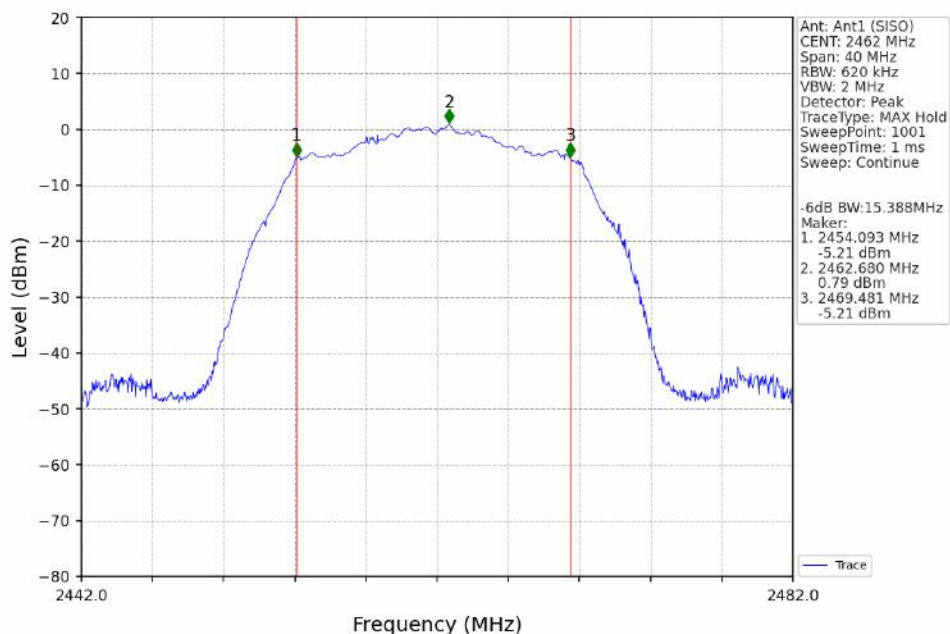
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



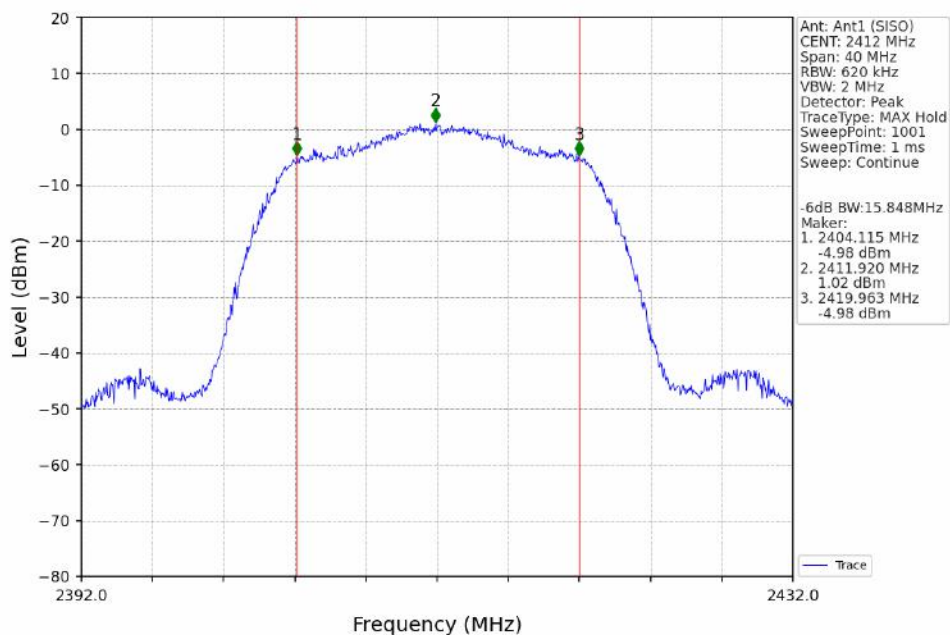
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



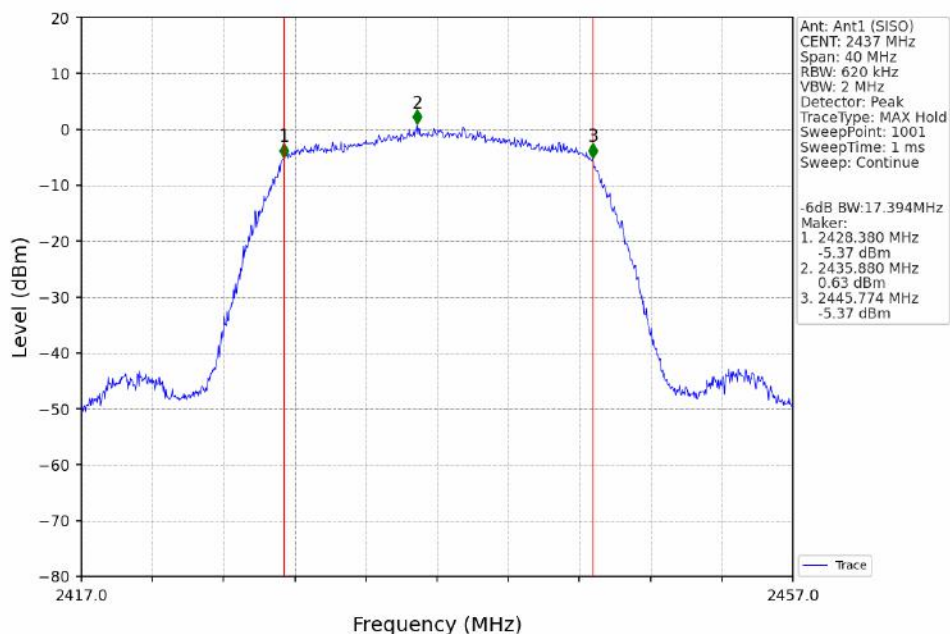
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

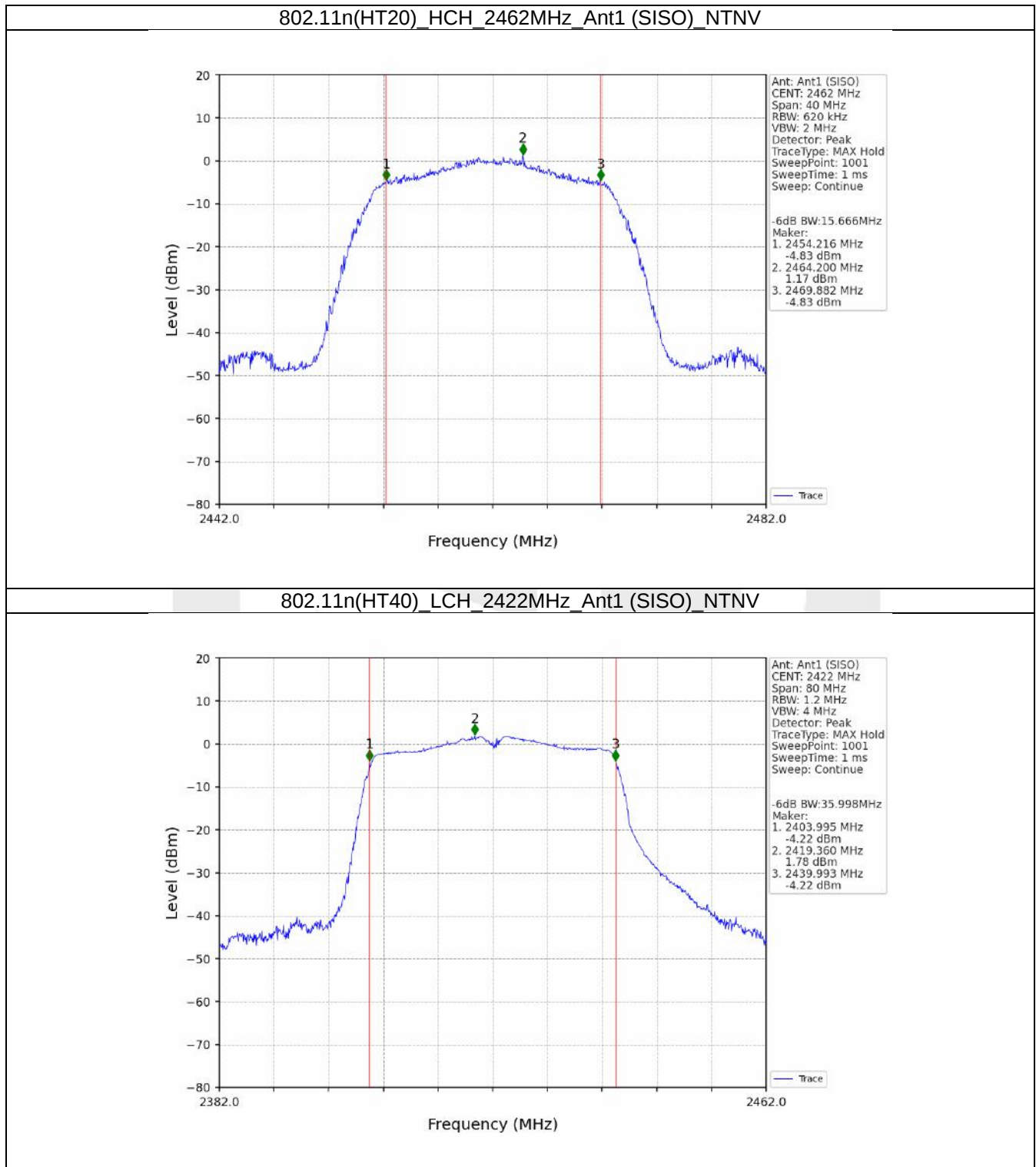


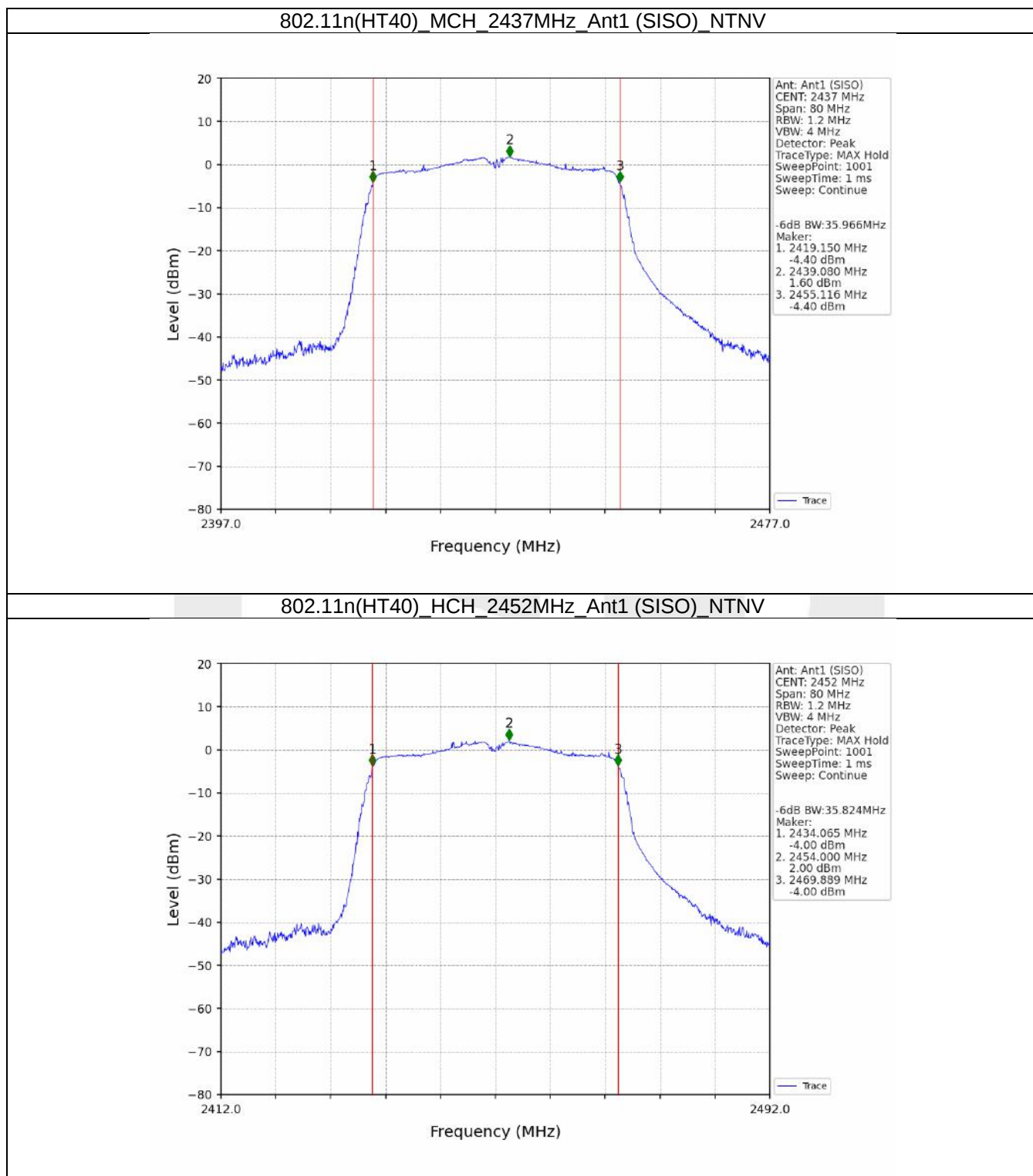
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV







3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.09	<=30	Pass
		2437	14.12	<=30	Pass
		2462	14.57	<=30	Pass
802.11g	SISO	2412	11.79	<=30	Pass
		2437	12.32	<=30	Pass
		2462	12.35	<=30	Pass
802.11n (HT20)	SISO	2412	11.78	<=30	Pass
		2437	12.16	<=30	Pass
		2462	11.80	<=30	Pass
802.11n (HT40)	SISO	2422	13.48	<=30	Pass
		2437	13.46	<=30	Pass
		2452	13.62	<=30	Pass

4. Maximum Power Spectral Density

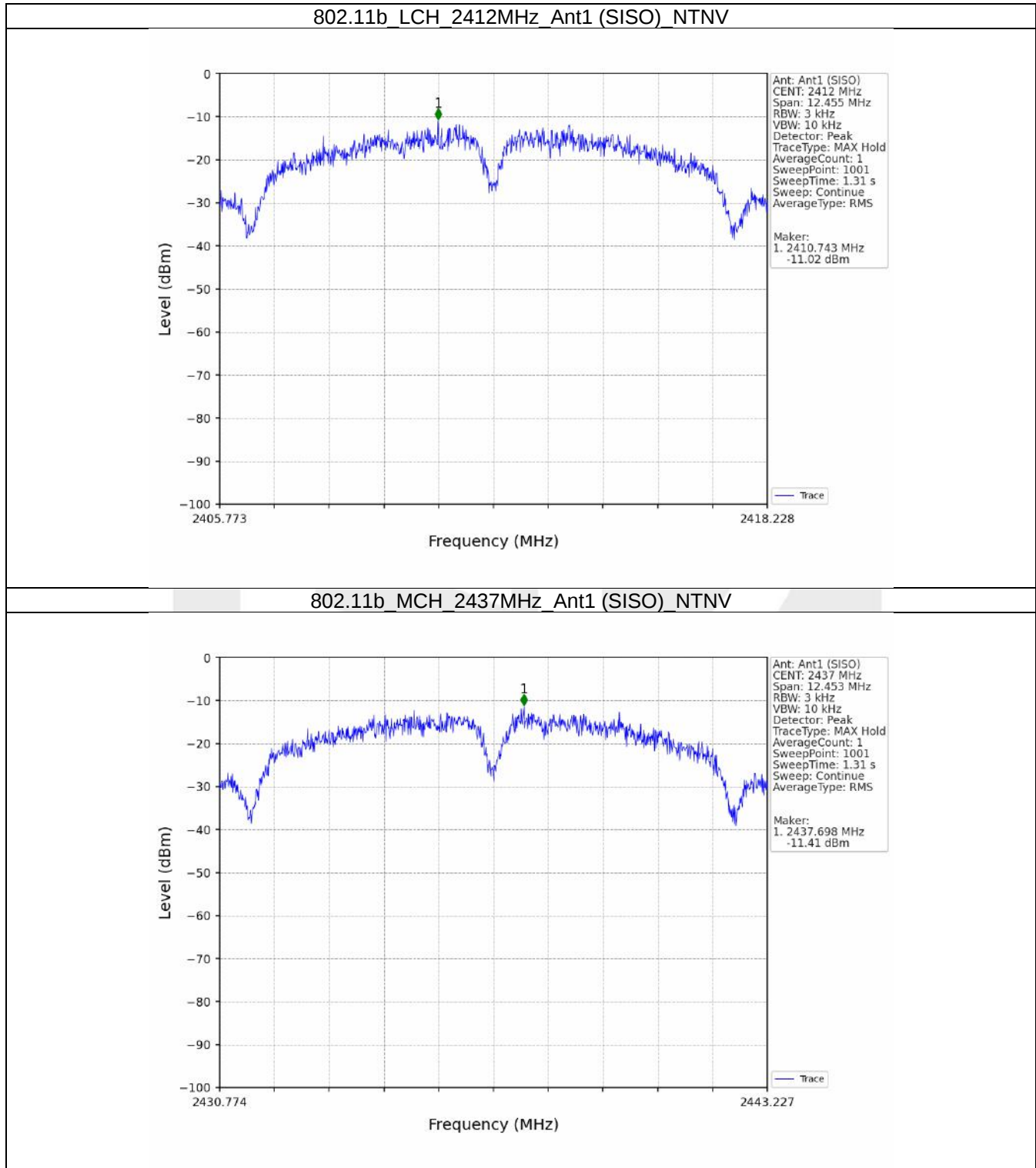
4.1 Test Result

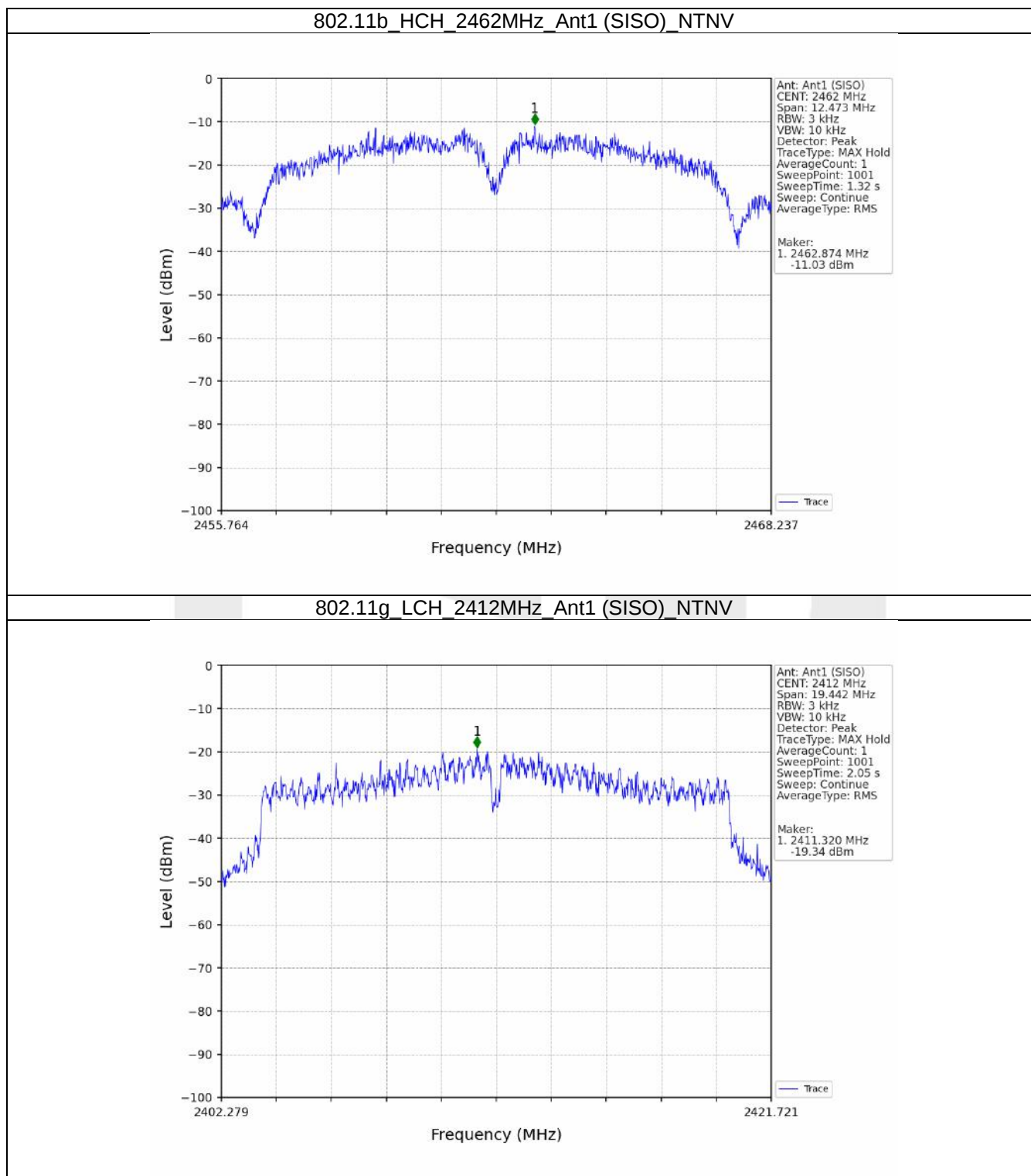
4.1.1 PSD

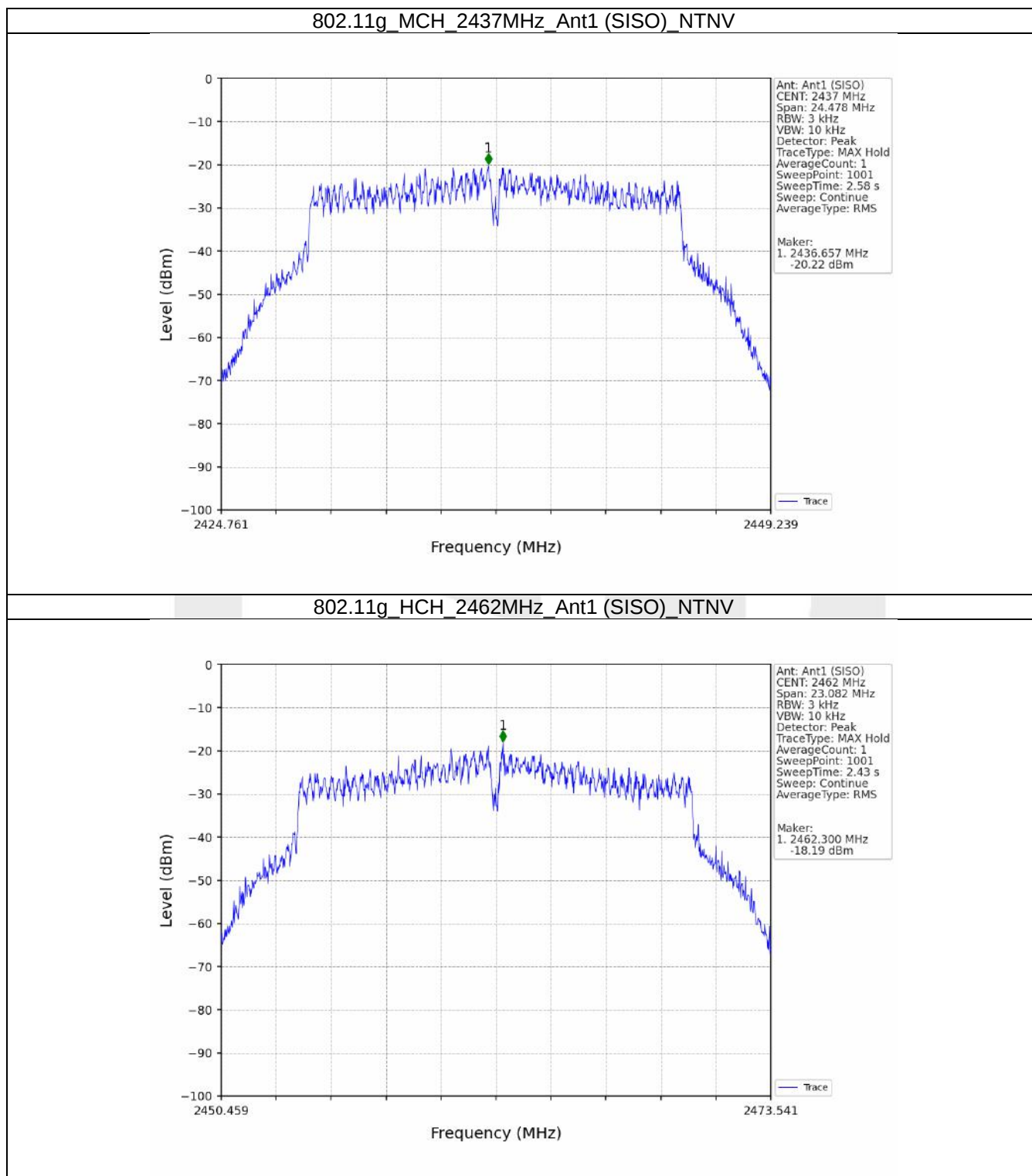
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-11.02	<=8	Pass
		2437	-11.41	<=8	Pass
		2462	-11.03	<=8	Pass
802.11g	SISO	2412	-19.34	<=8	Pass
		2437	-20.22	<=8	Pass
		2462	-18.19	<=8	Pass
802.11n (HT20)	SISO	2412	-20.24	<=8	Pass
		2437	-20.63	<=8	Pass
		2462	-18.71	<=8	Pass
802.11n (HT40)	SISO	2422	-21.93	<=8	Pass
		2437	-22.36	<=8	Pass
		2452	-22.01	<=8	Pass

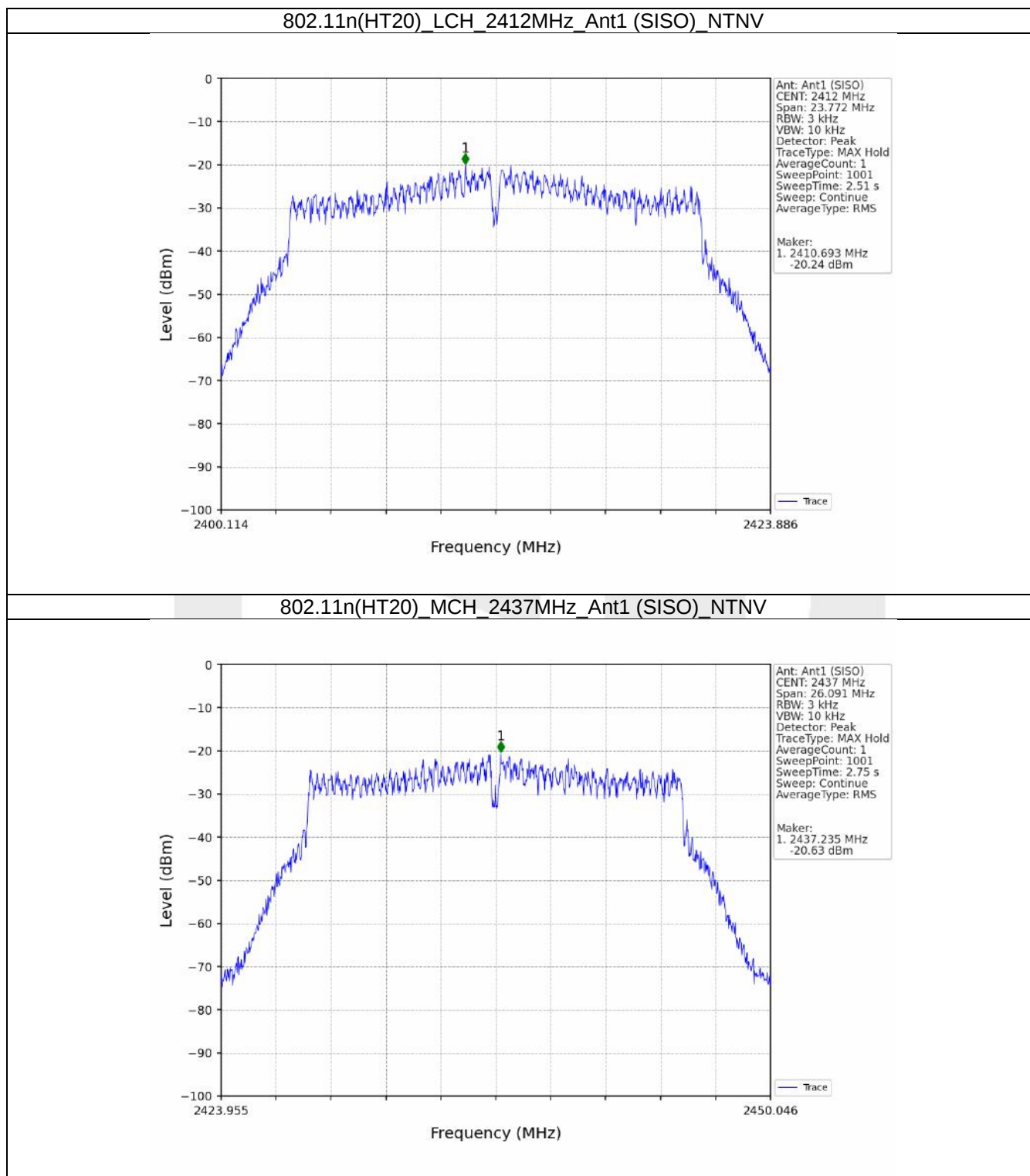
4.2 Test Graph

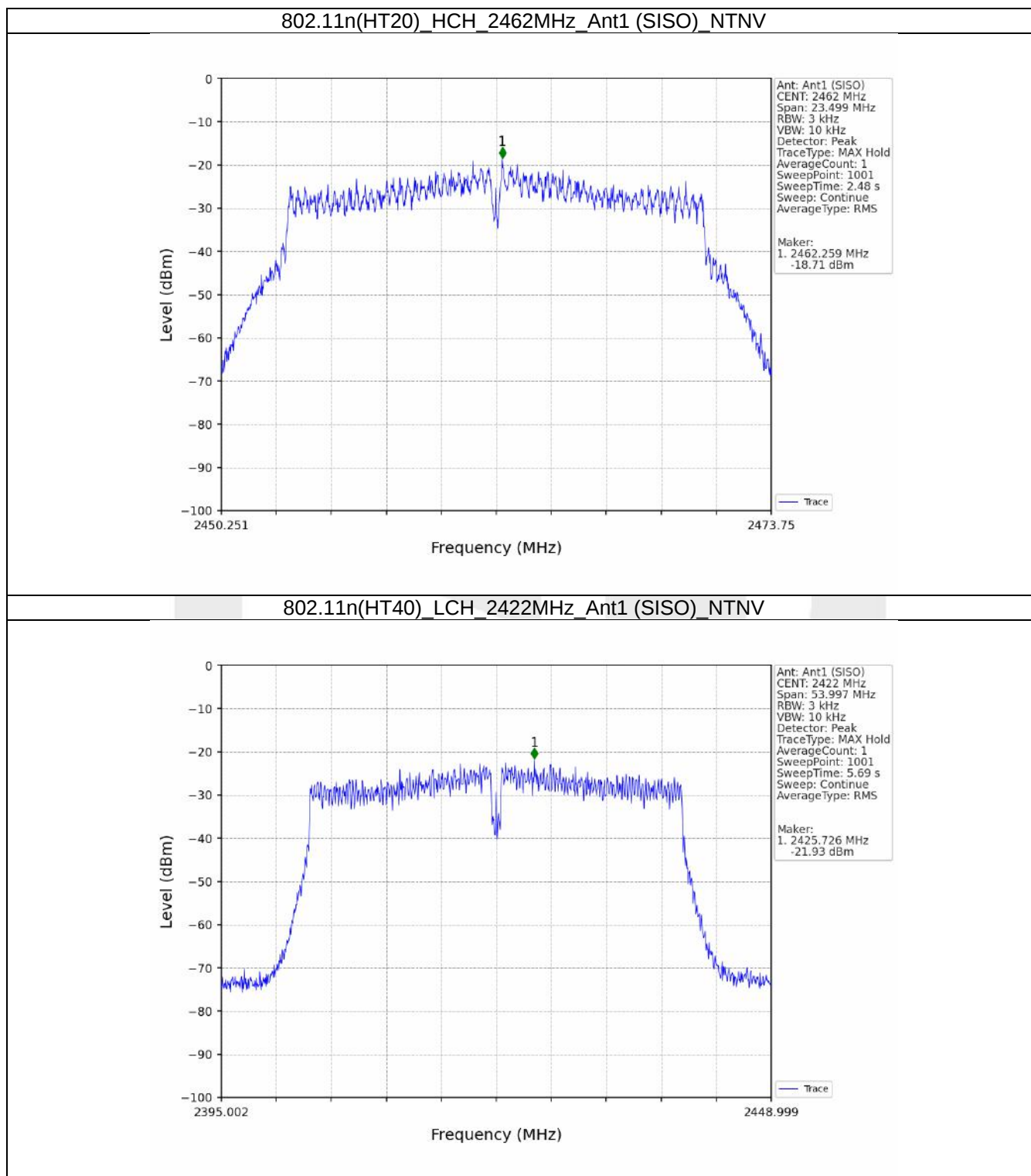
4.2.1 PSD

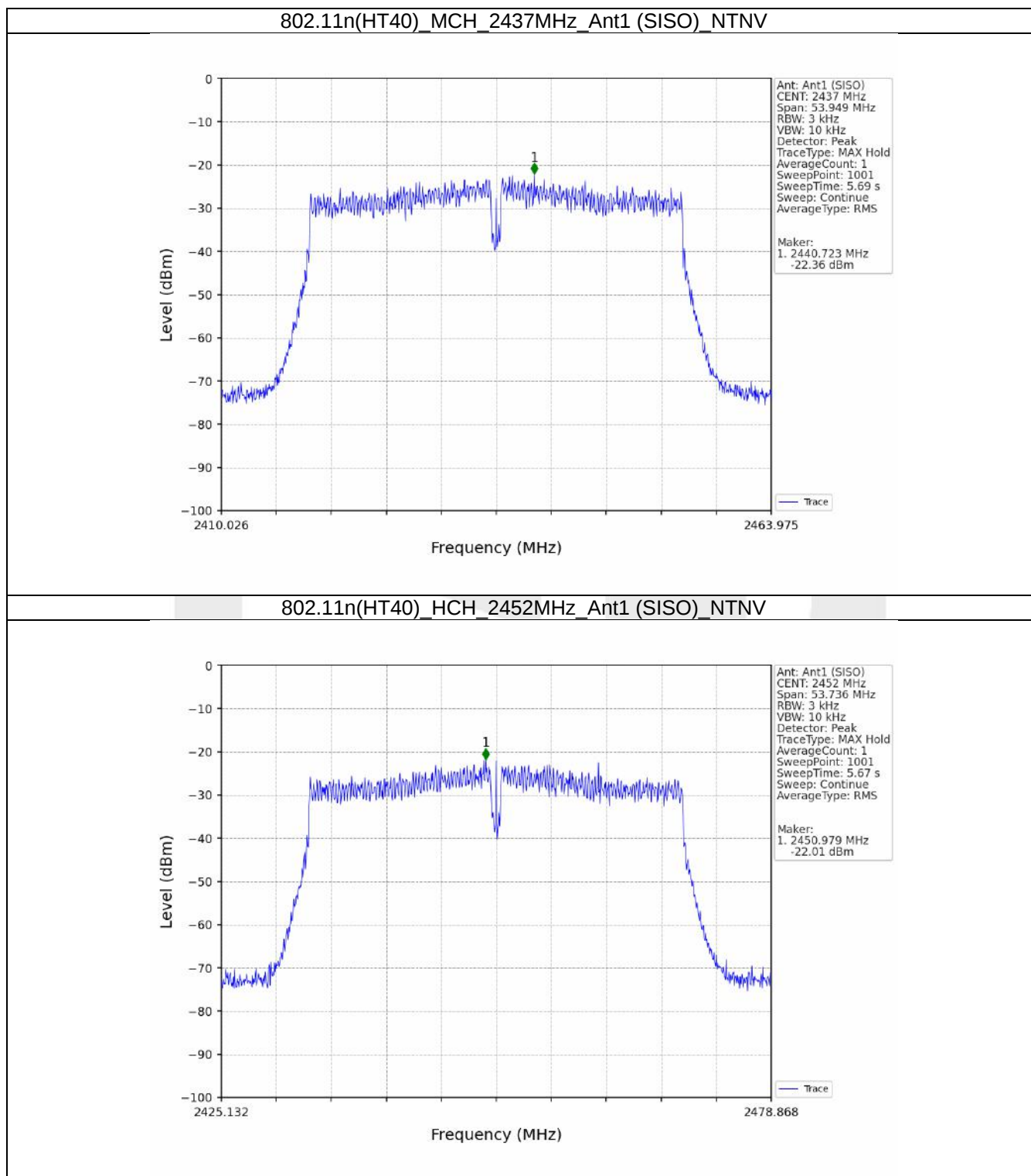












5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	3.34
		2437	1	3.40
		2462	1	3.77
802.11g	SISO	2412	1	-6.95
		2437	1	-7.11
		2462	1	-6.57
802.11n (HT20)	SISO	2412	1	-6.77
		2437	1	-6.46
		2462	1	-6.30
802.11n (HT40)	SISO	2422	1	-8.36
		2437	1	-8.50
		2452	1	-8.38

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.

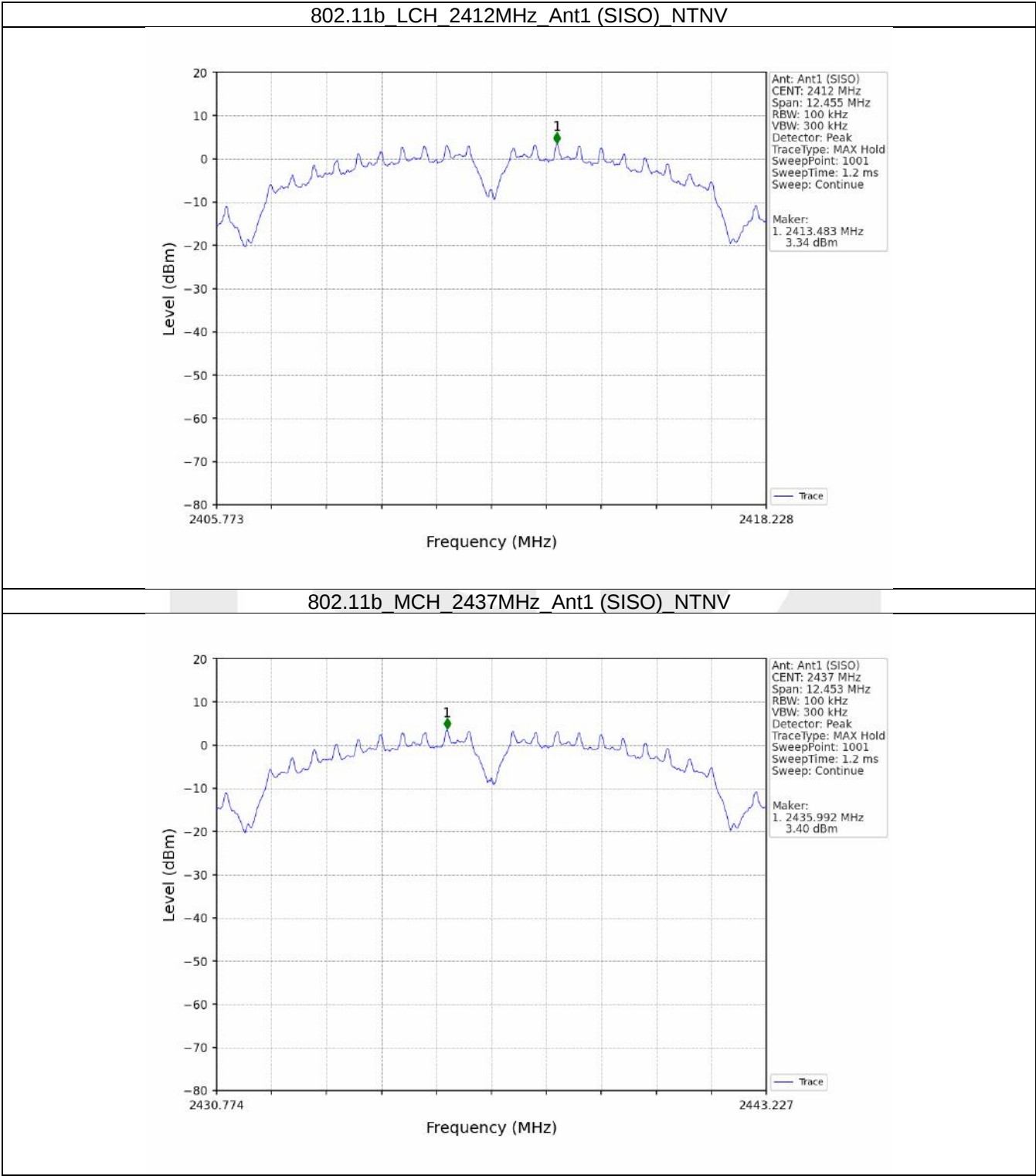
5.1.2 CSE

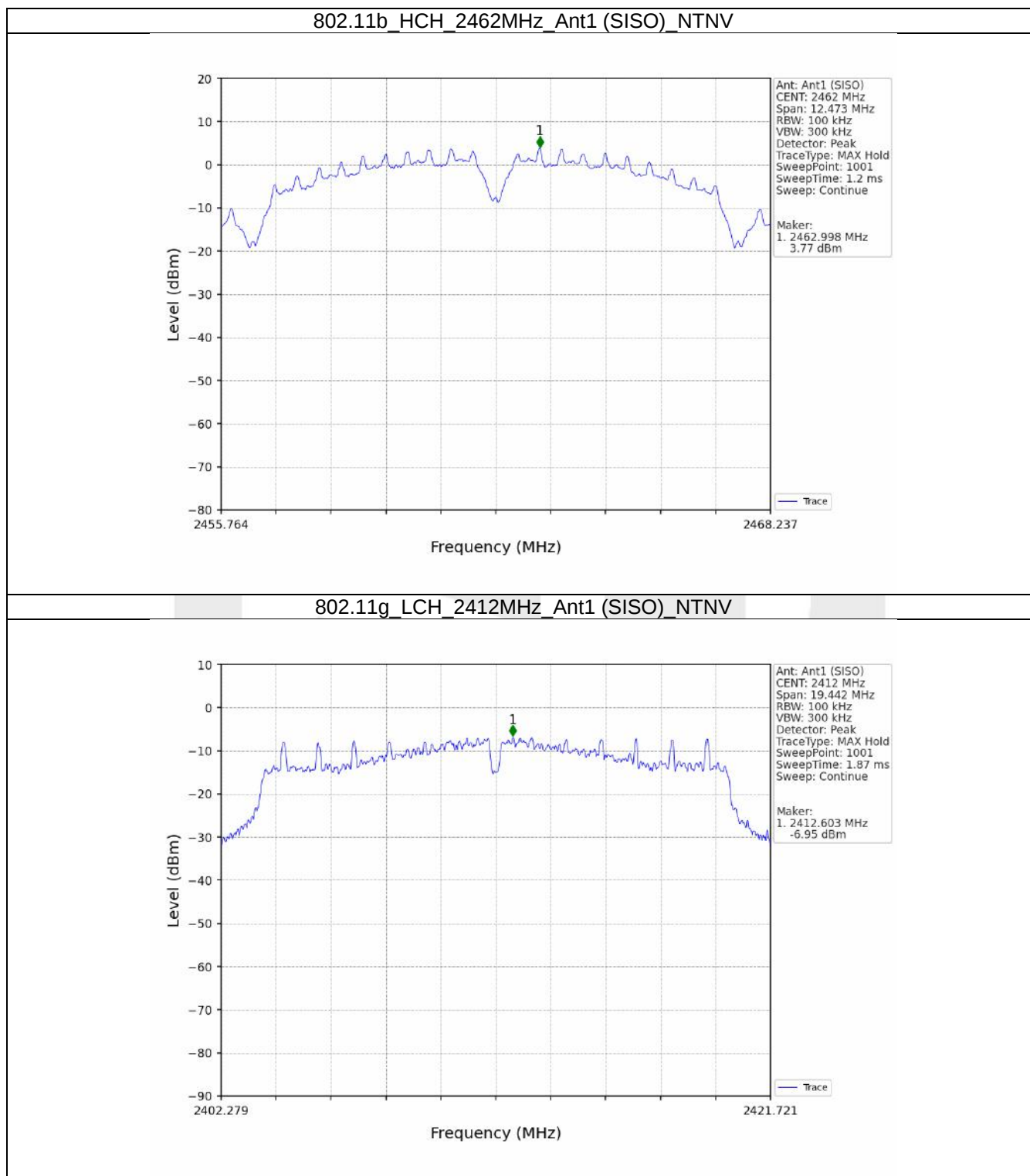
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.34	-16.66	Pass
		2437	1	3.40	-16.60	Pass
		2462	1	3.77	-16.23	Pass
802.11g	SISO	2412	1	-6.95	-26.95	Pass
		2437	1	-7.11	-27.11	Pass
		2462	1	-6.57	-26.57	Pass
802.11n (HT20)	SISO	2412	1	-6.77	-26.77	Pass
		2437	1	-6.46	-26.46	Pass
		2462	1	-6.30	-26.30	Pass
802.11n (HT40)	SISO	2422	1	-8.36	-28.36	Pass
		2437	1	-8.50	-28.50	Pass
		2452	1	-8.38	-28.38	Pass

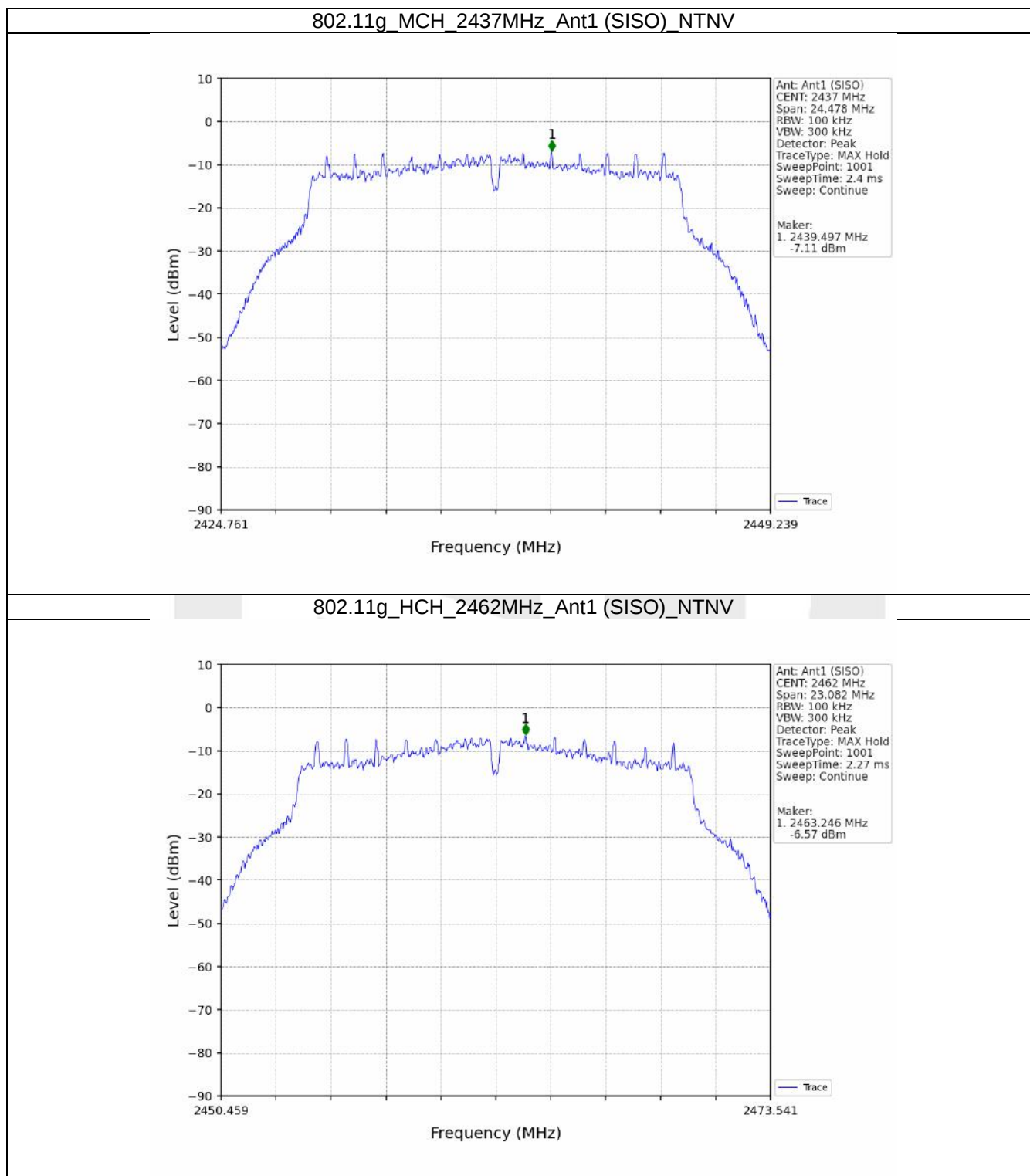
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

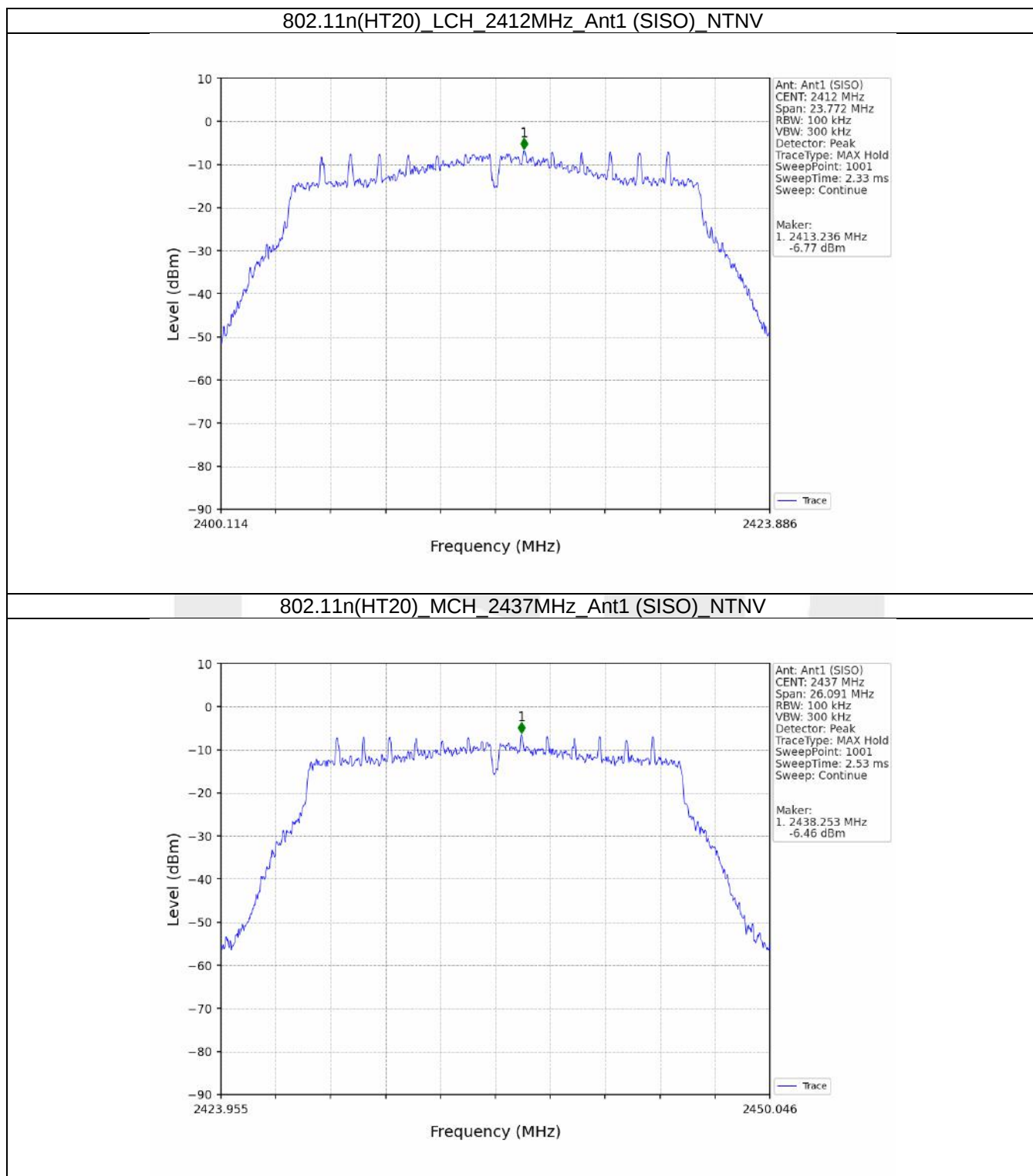
5.2 Test Graph

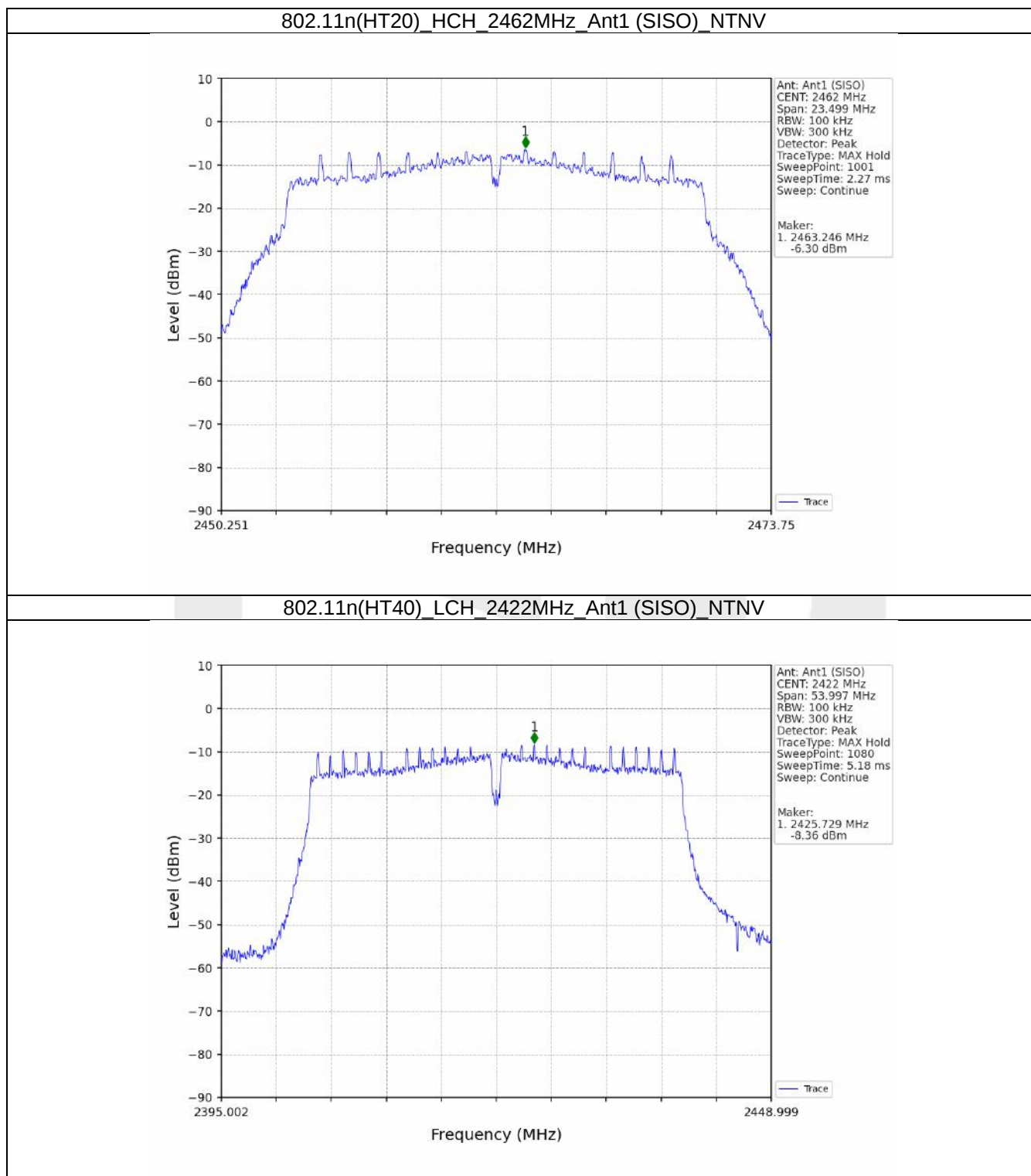
5.2.1 Ref

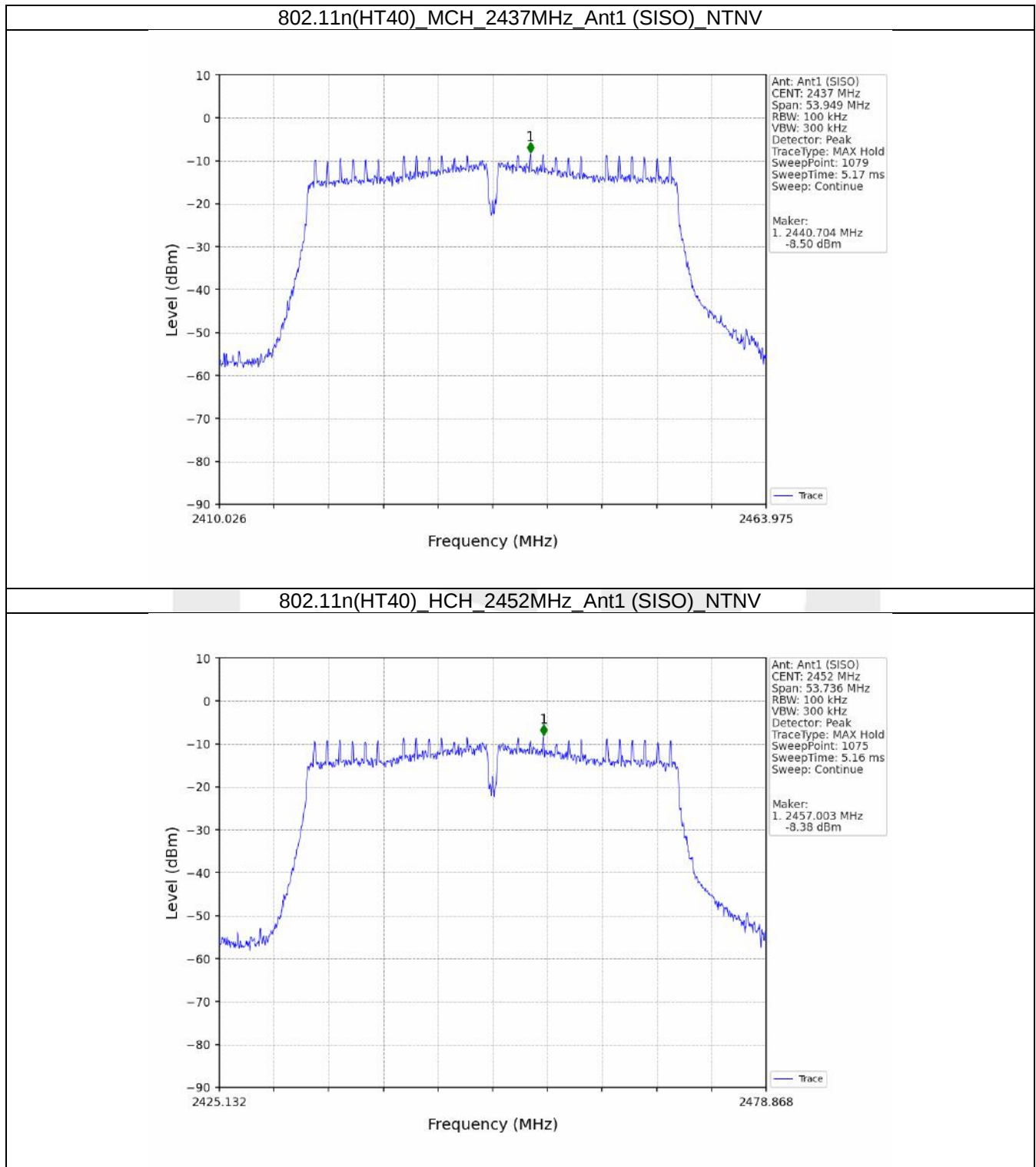




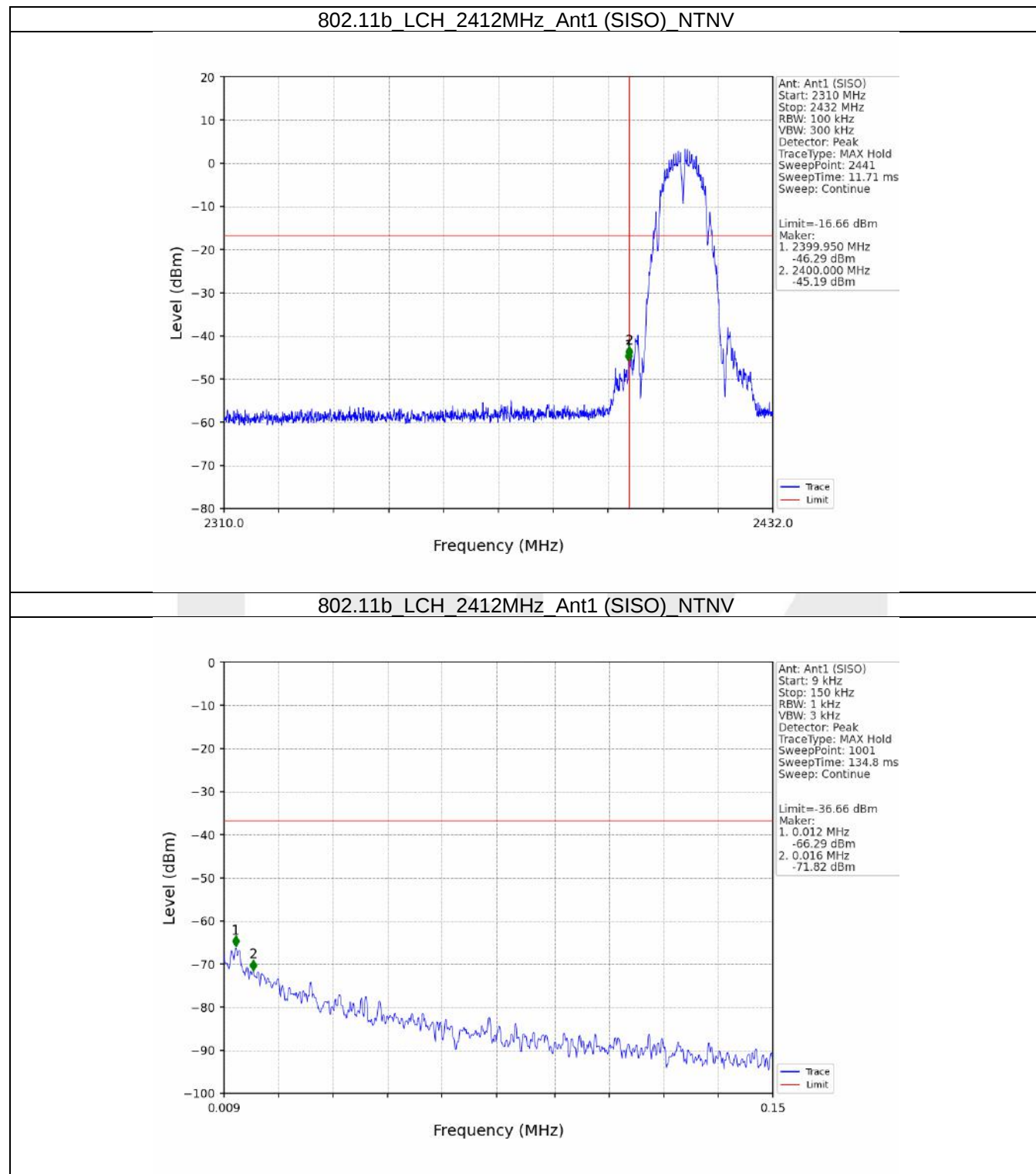


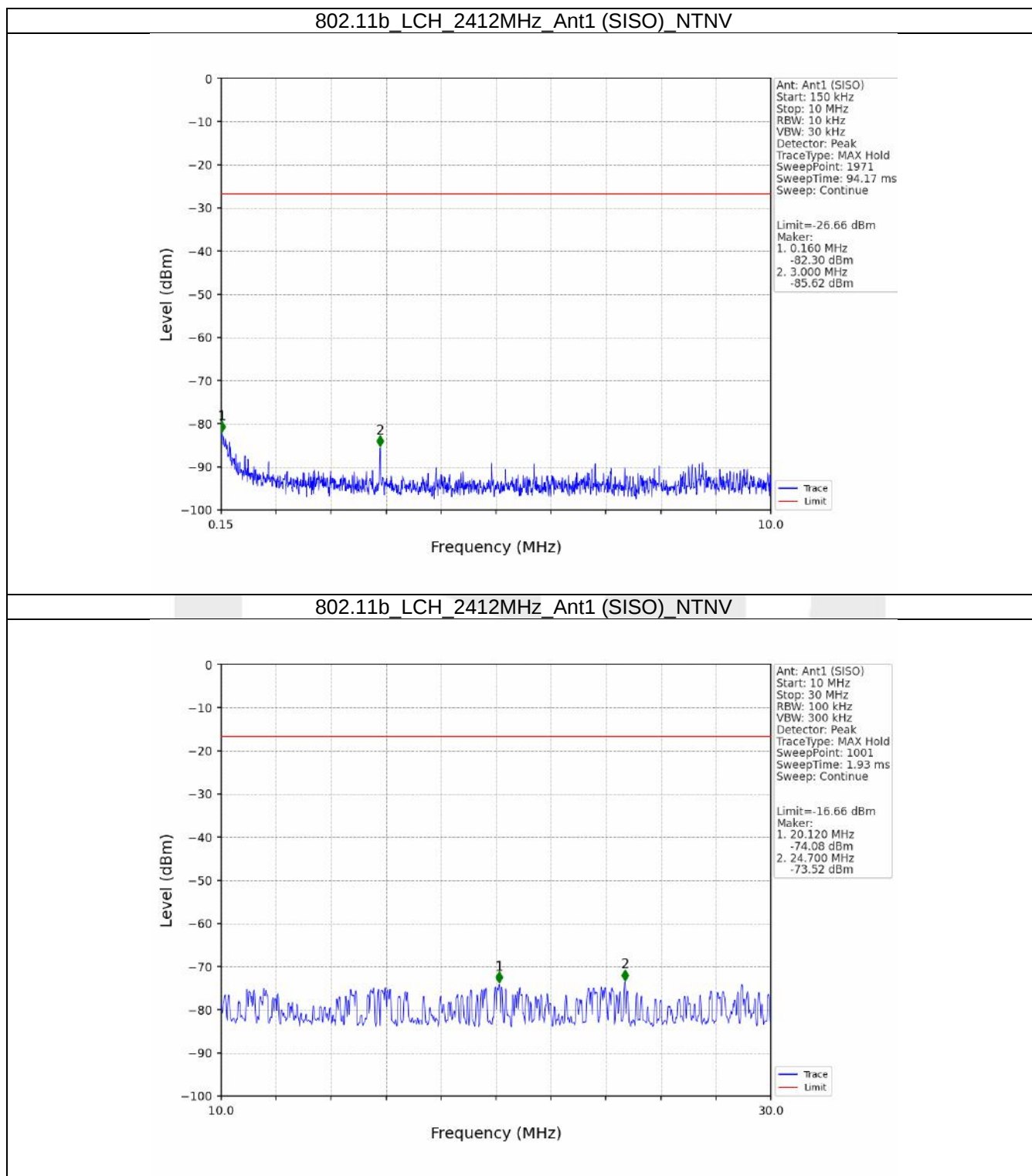


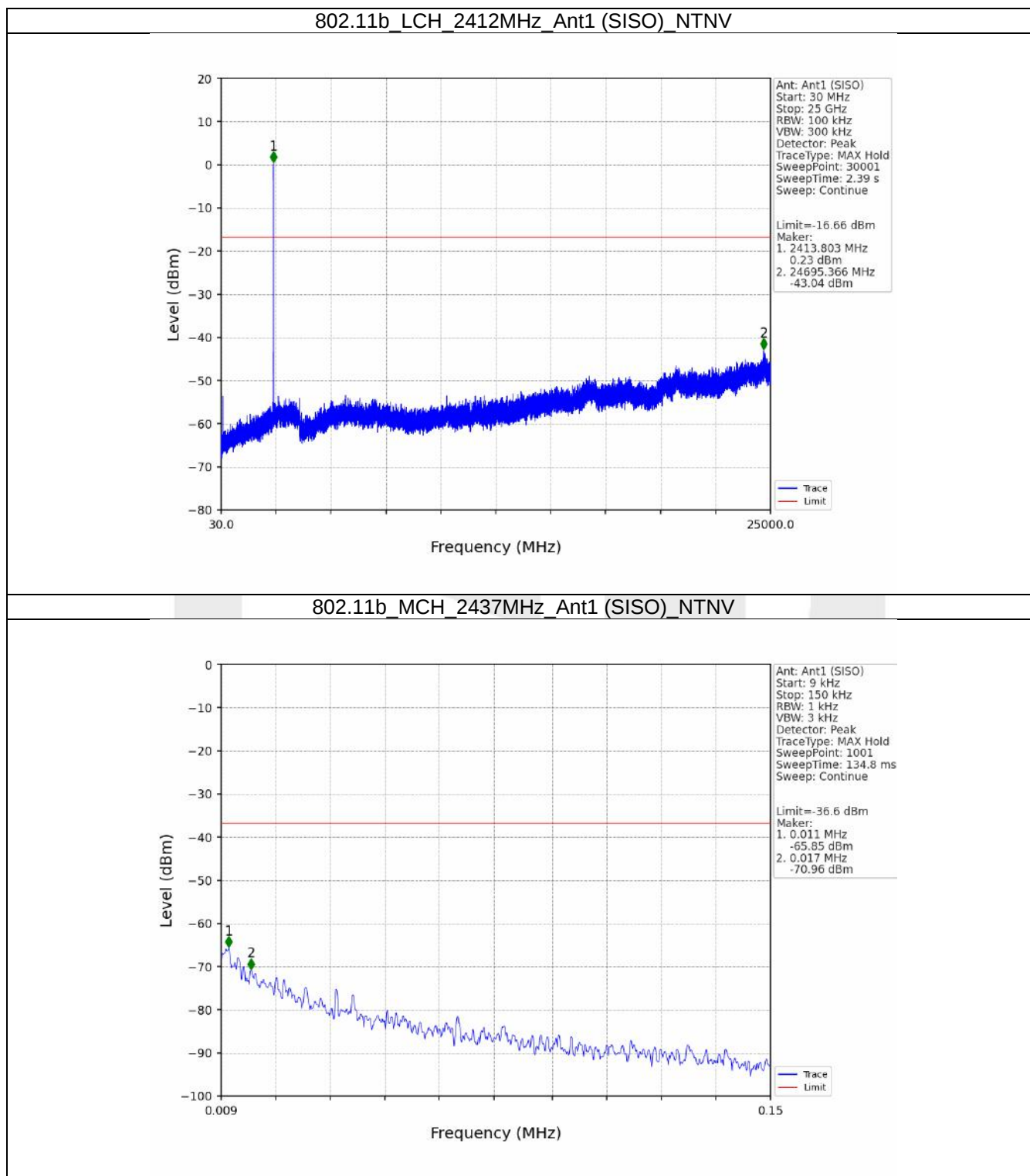


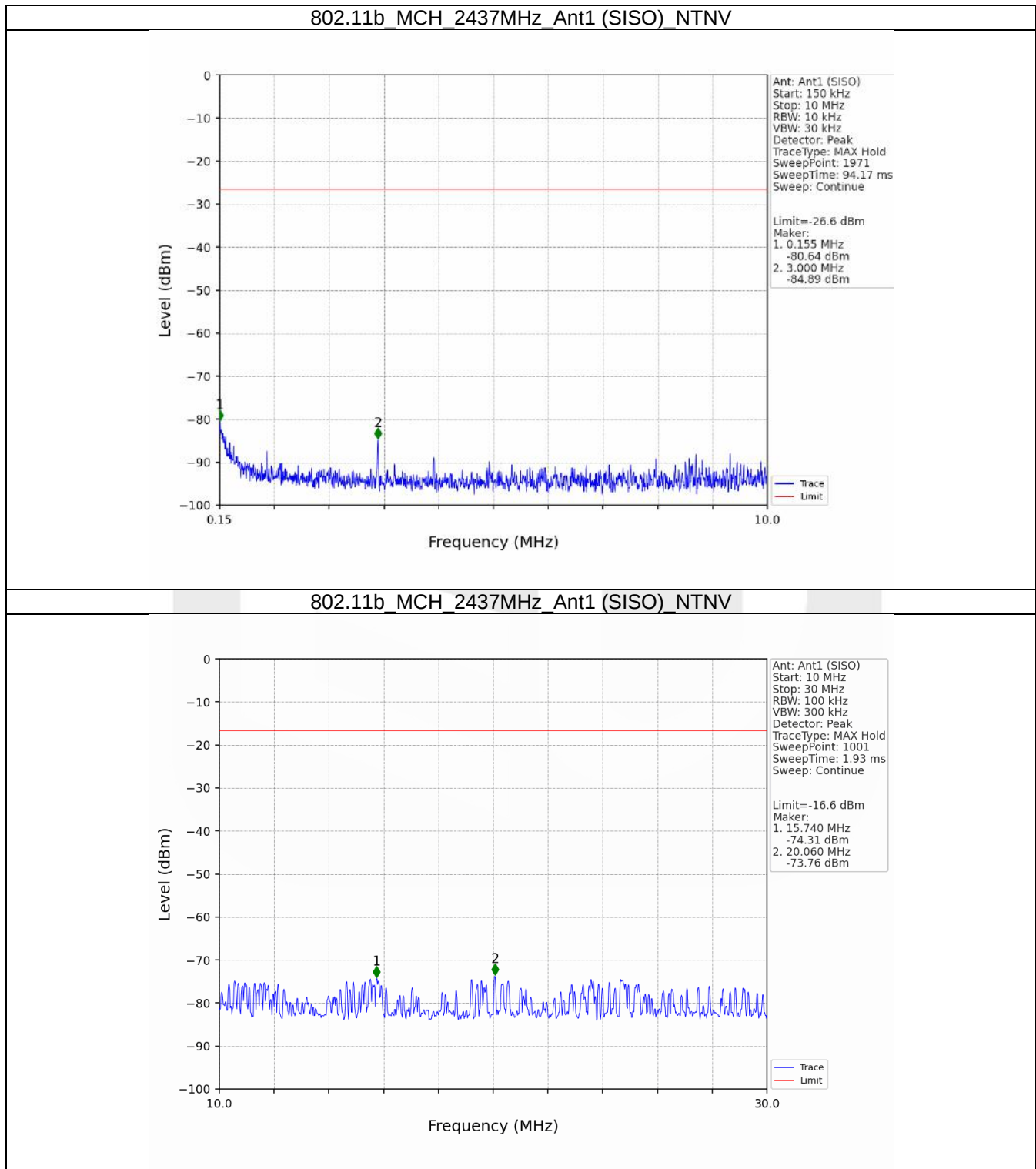


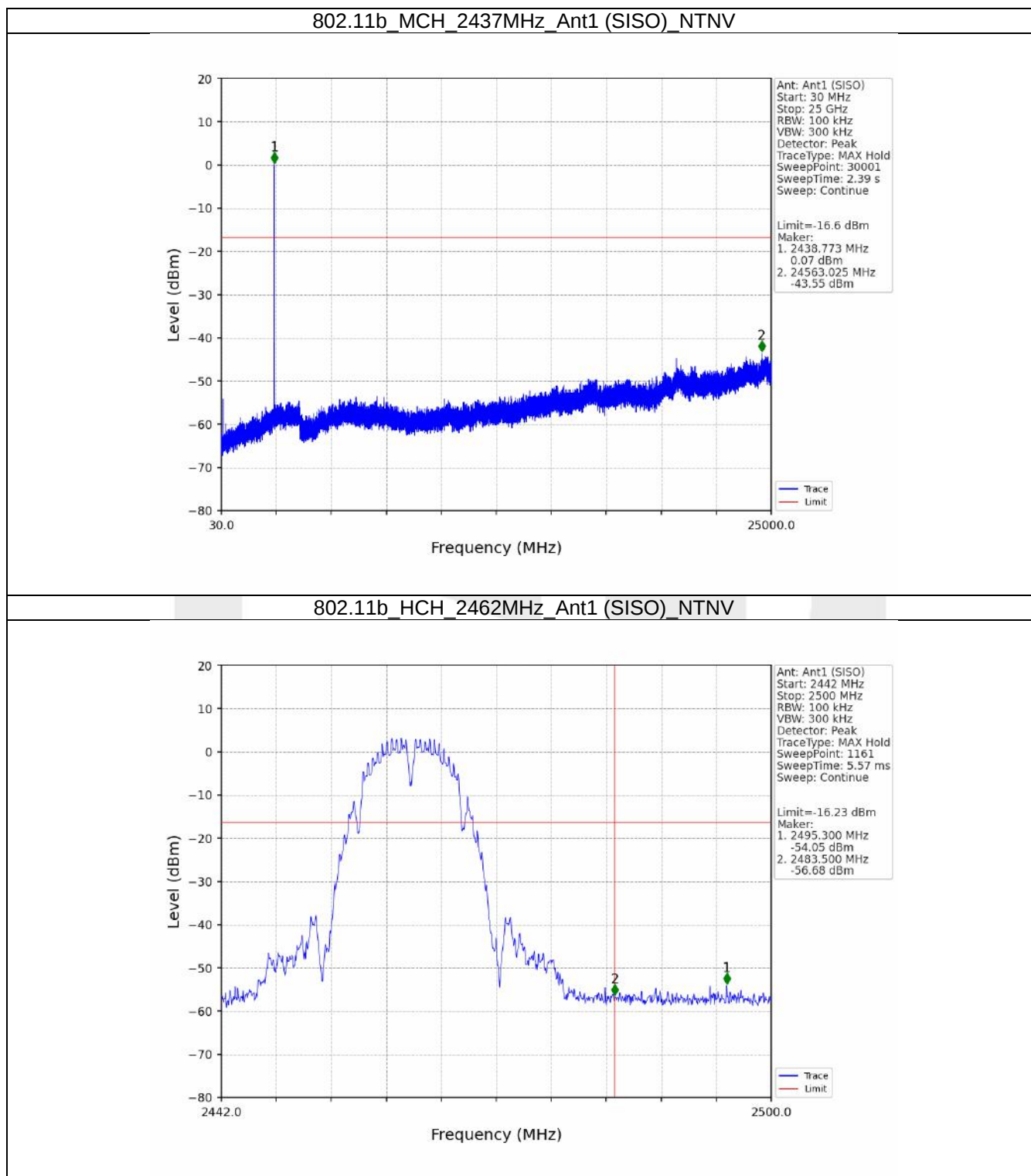
5.2.2 CSE

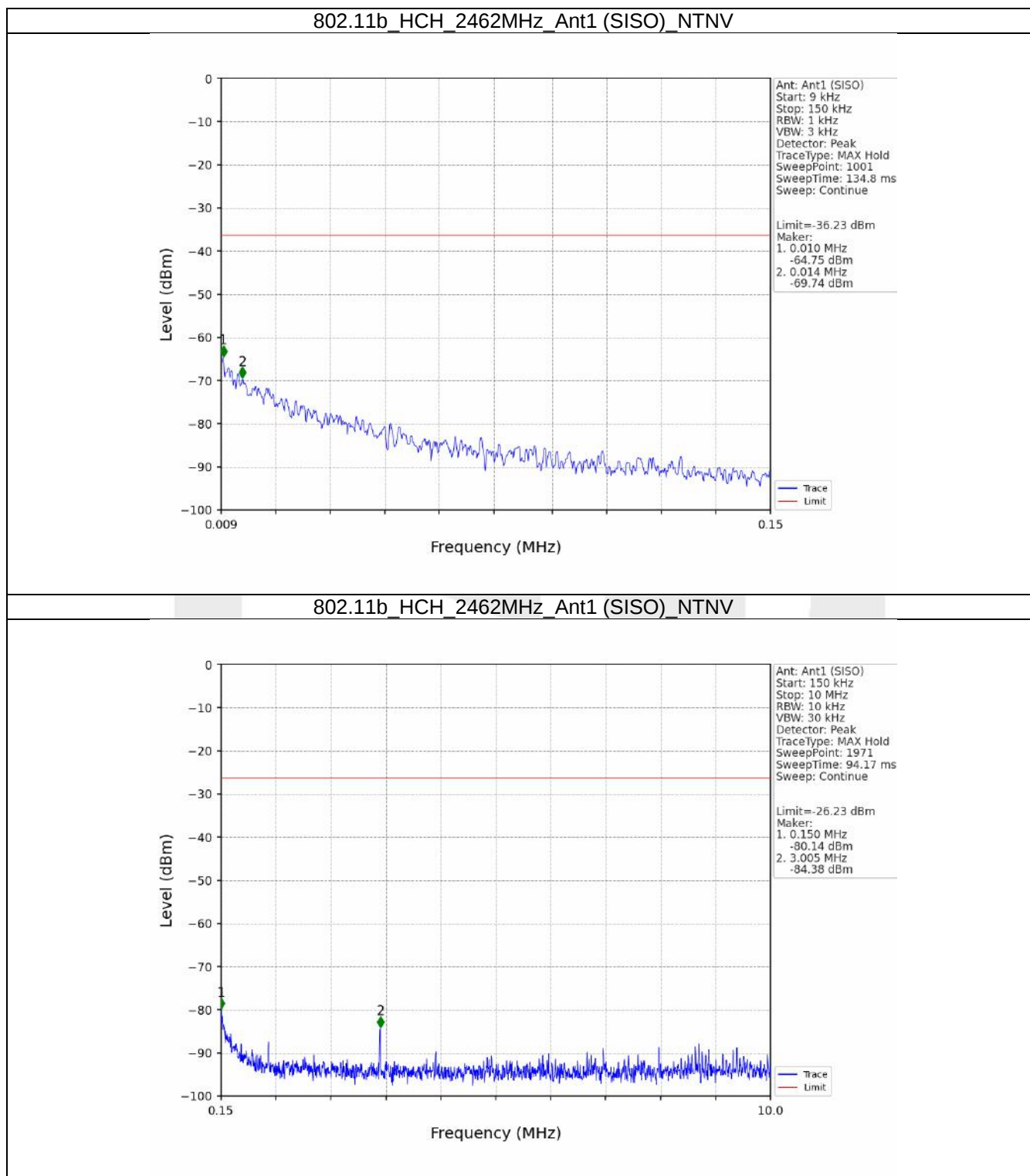


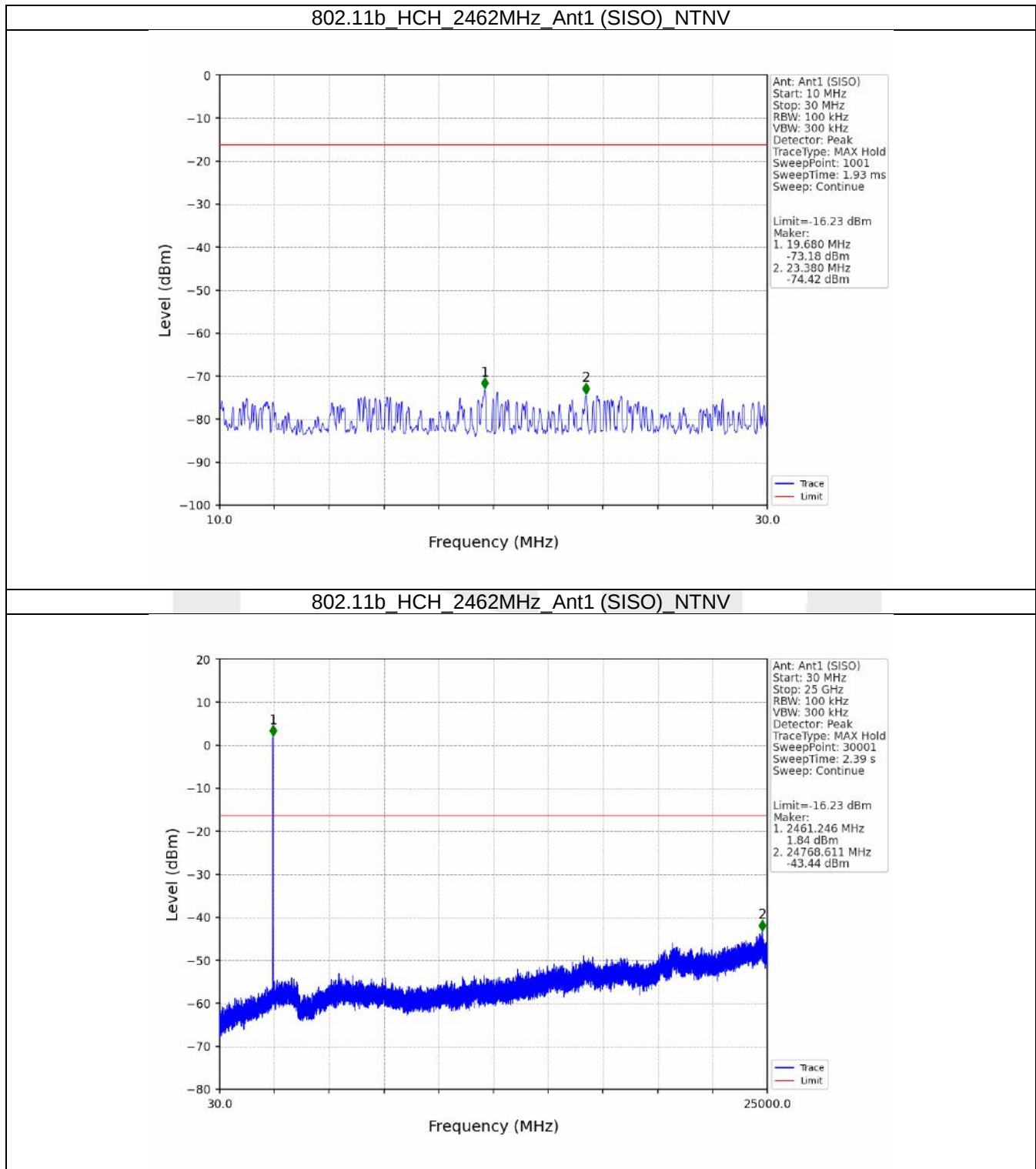


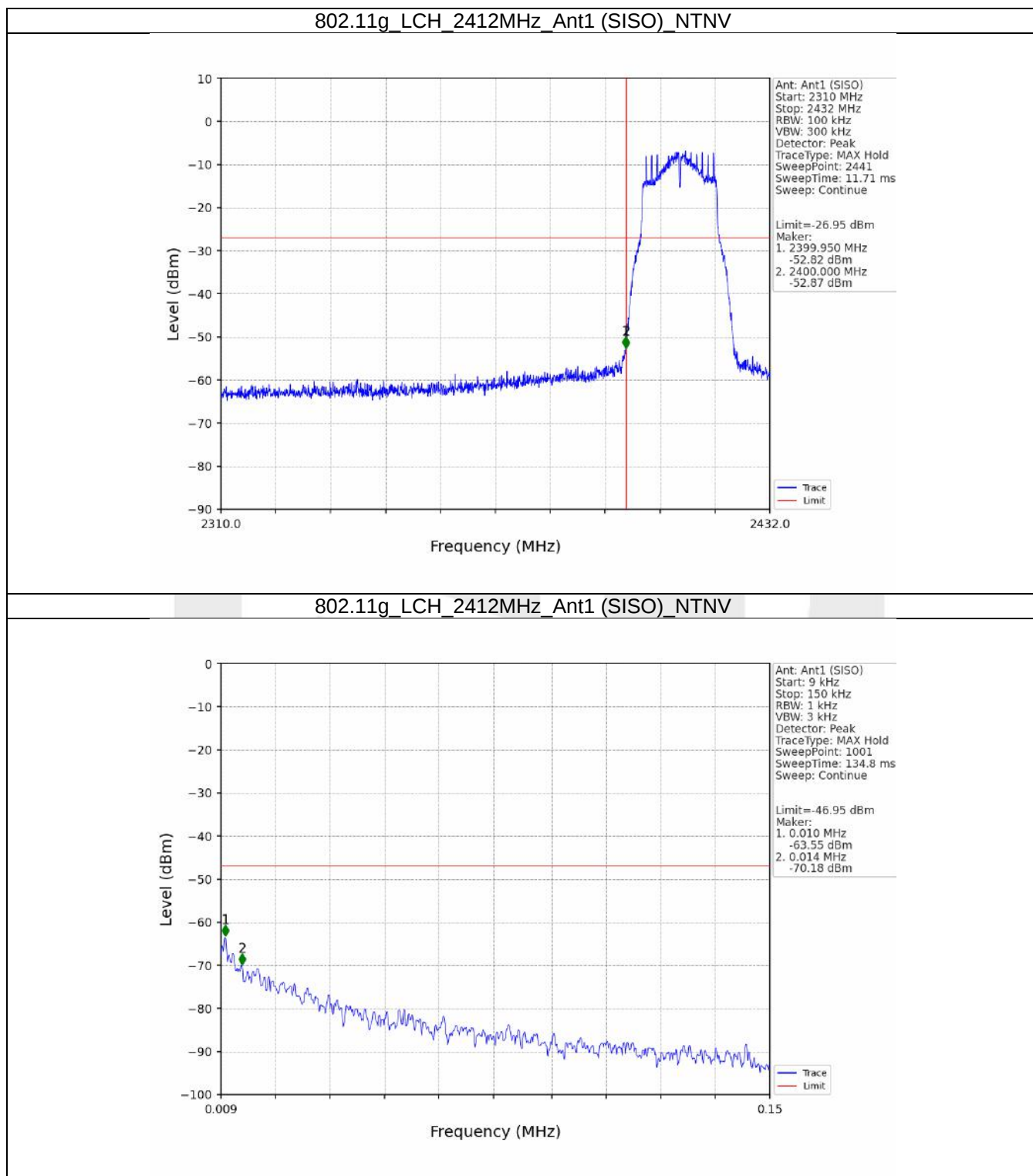


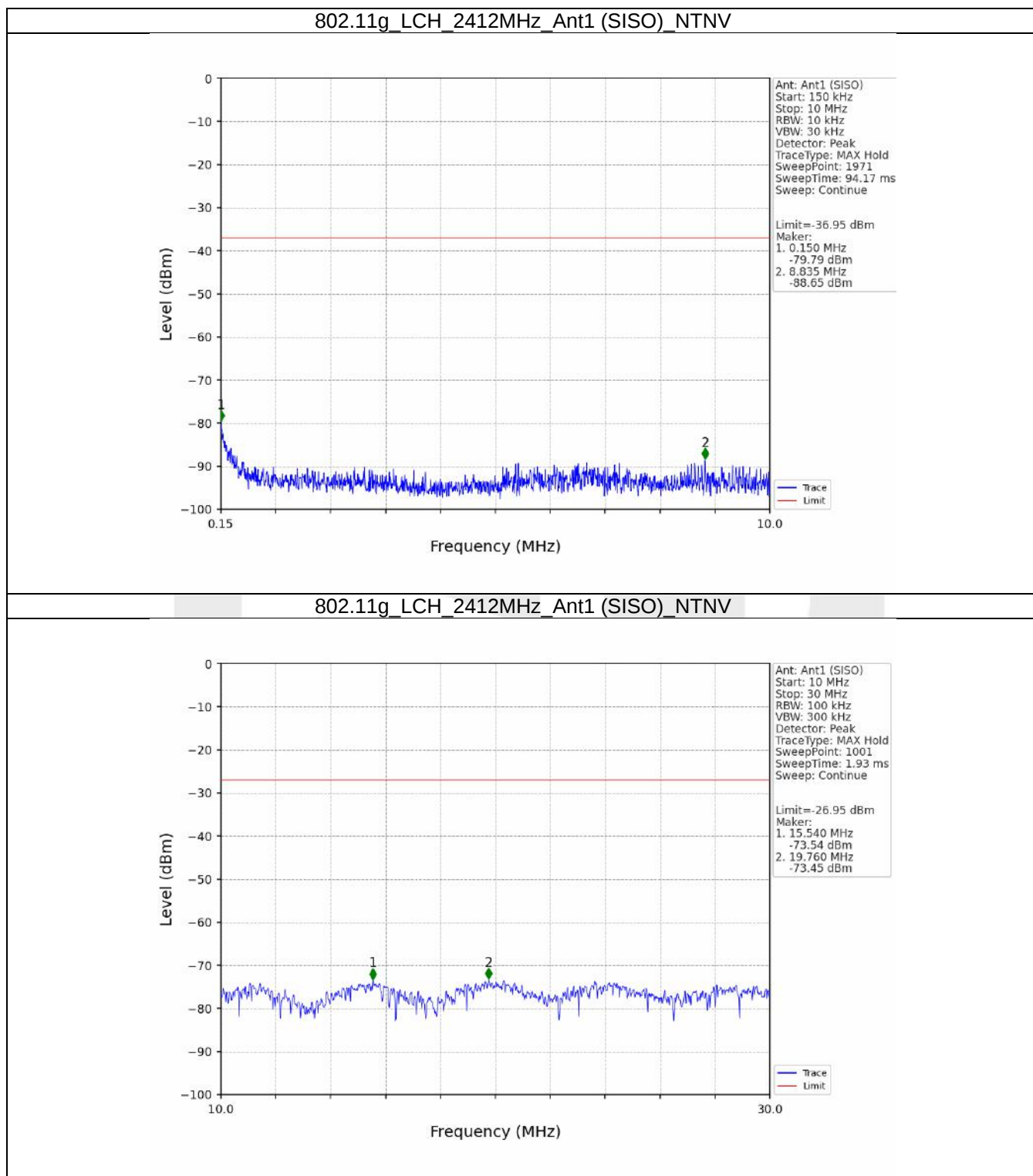


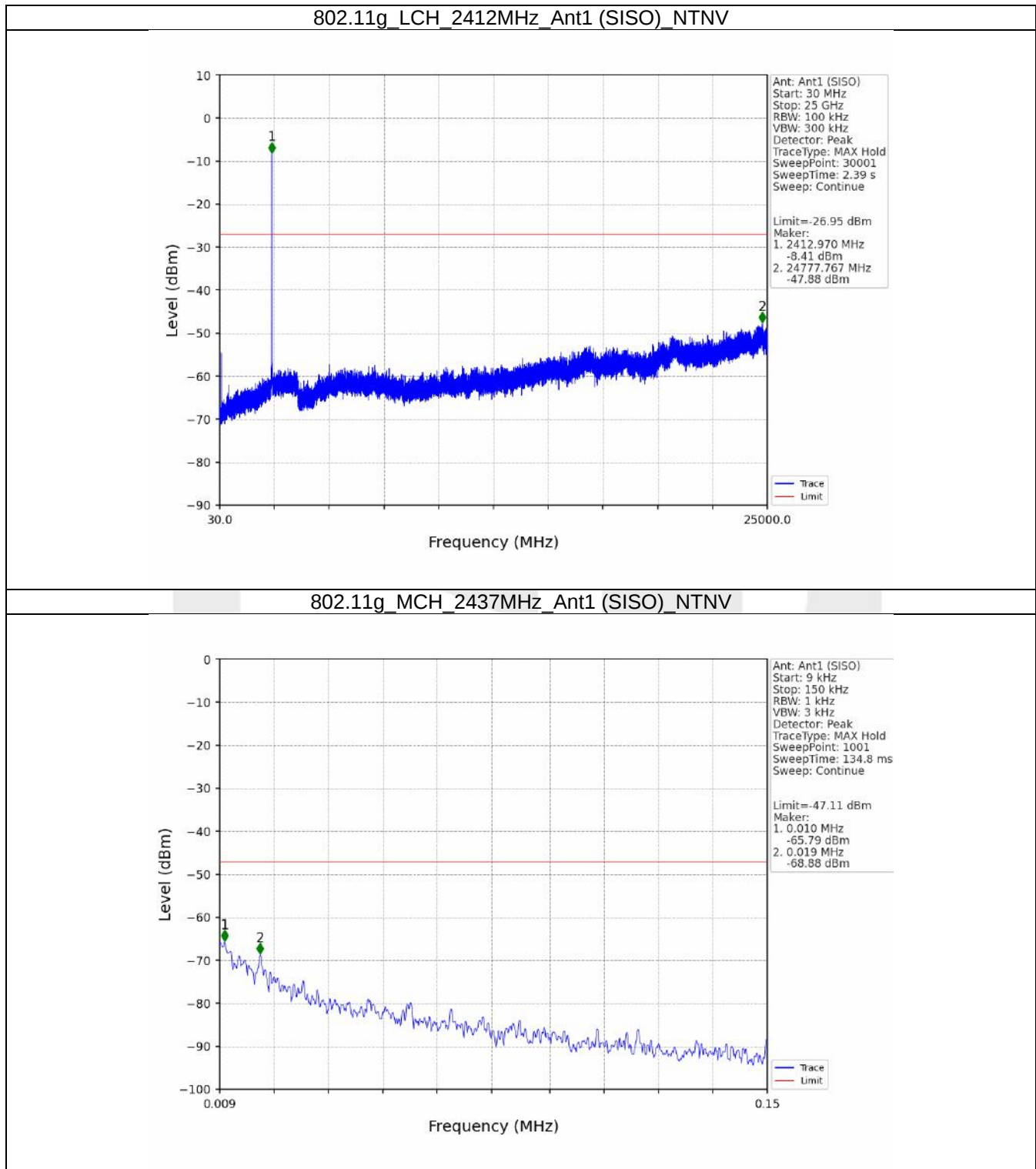


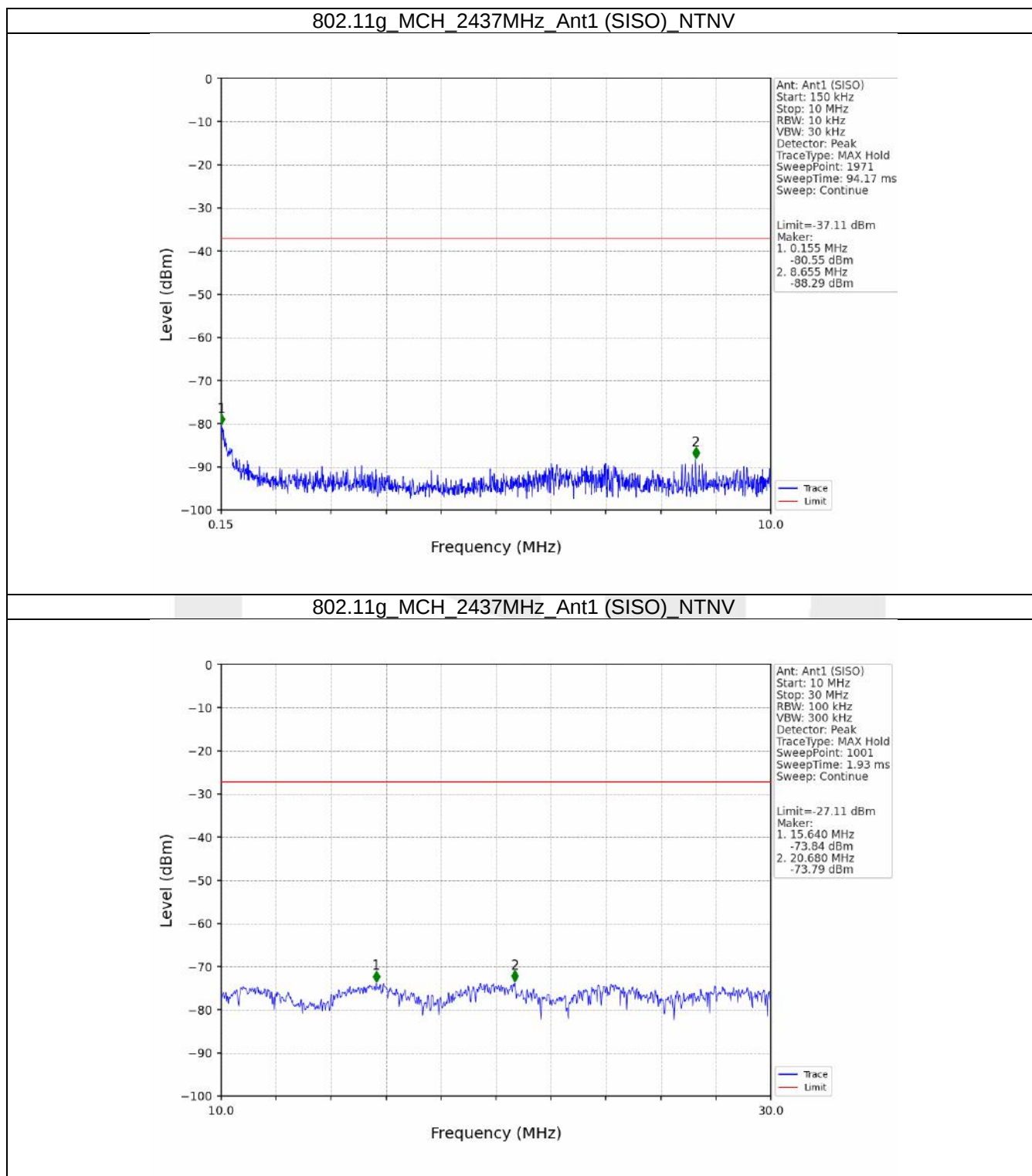


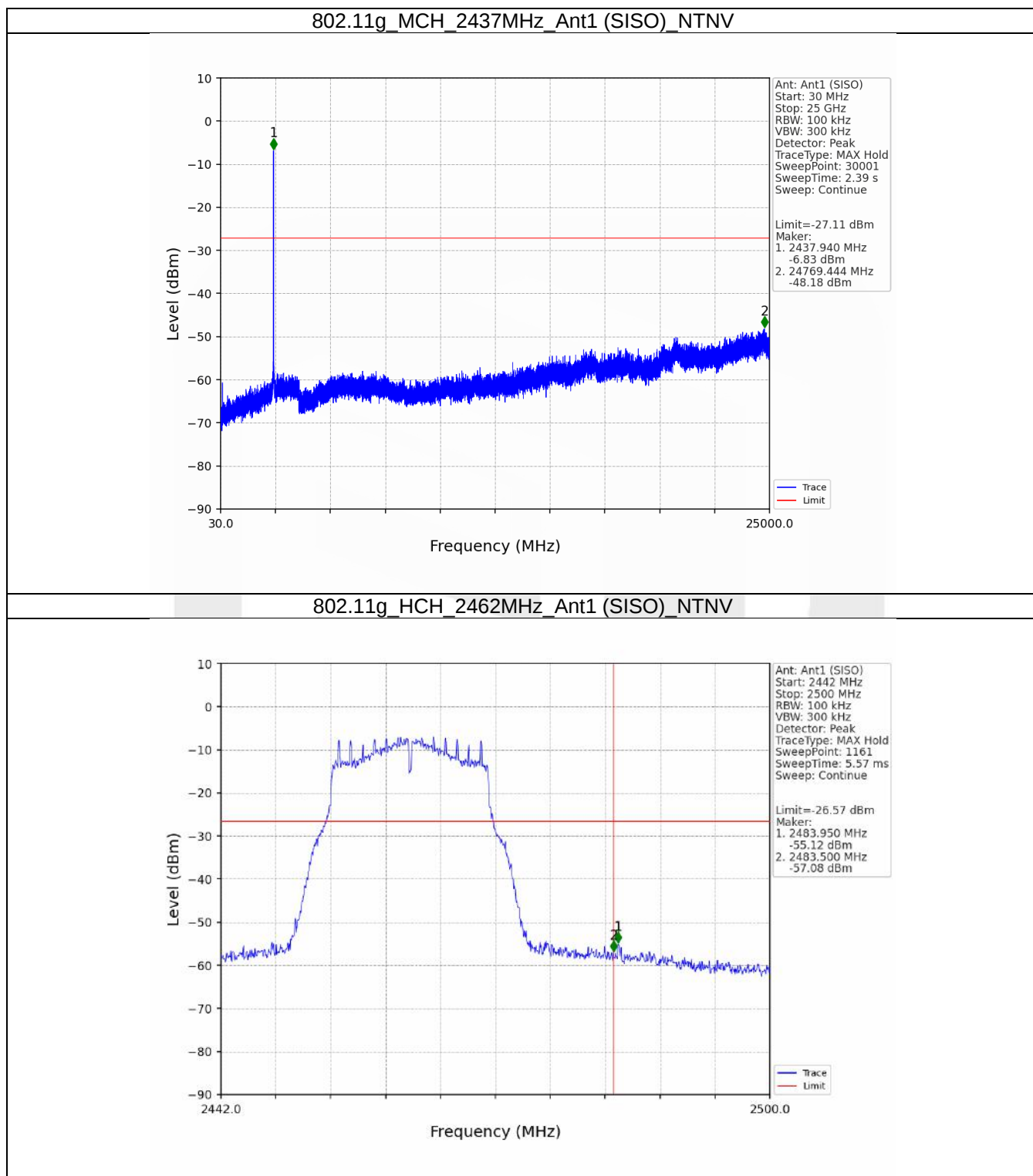


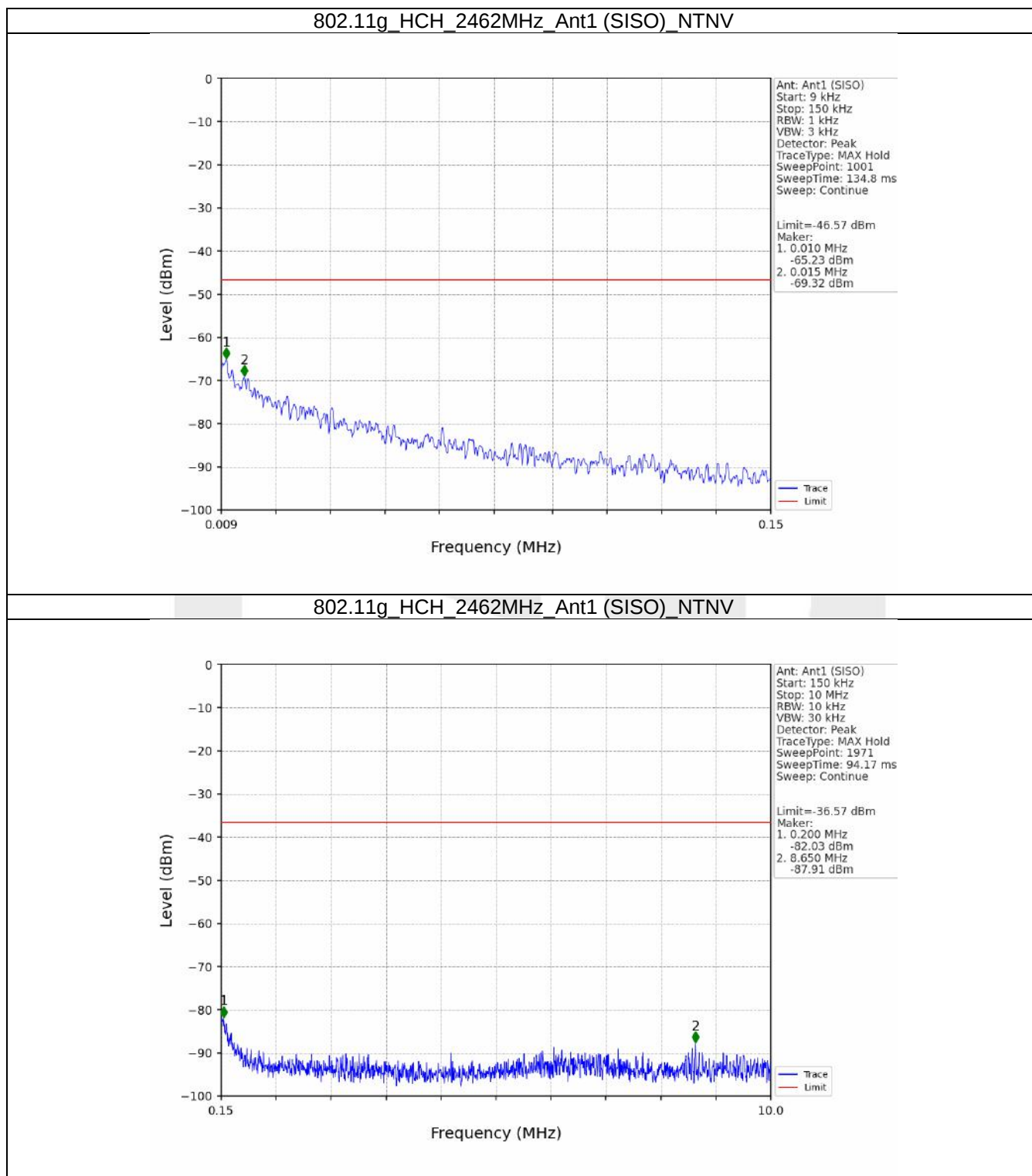


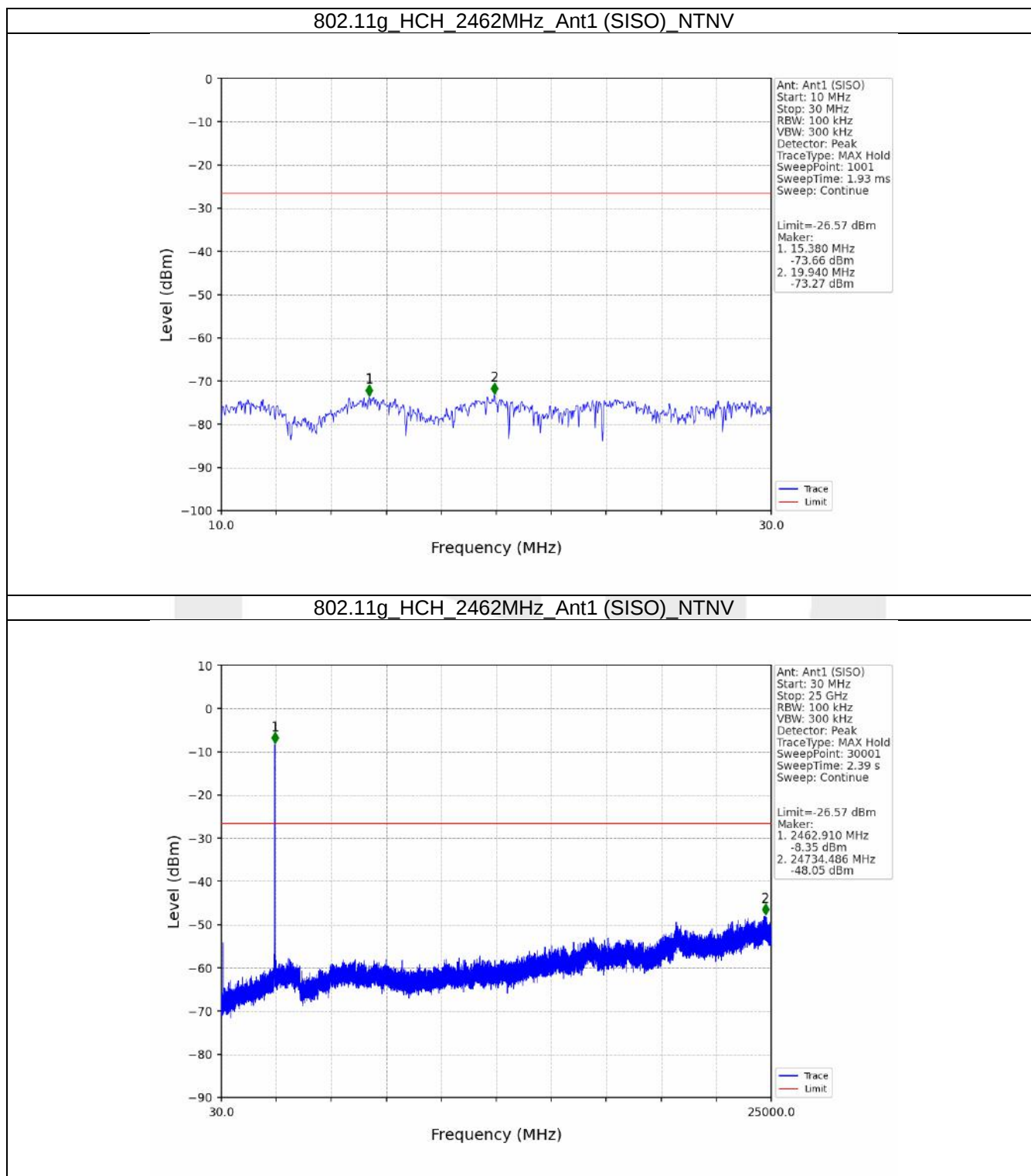


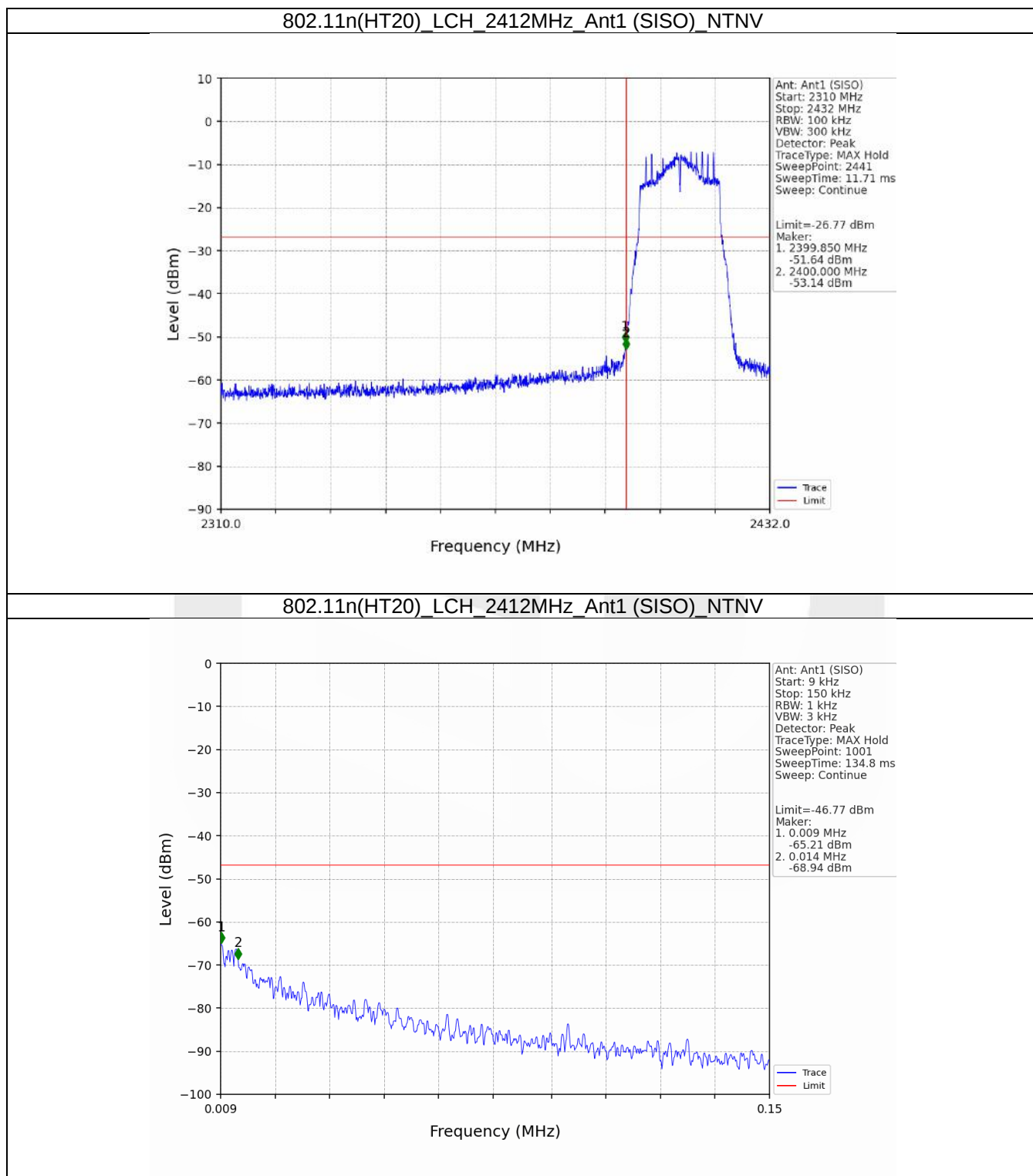


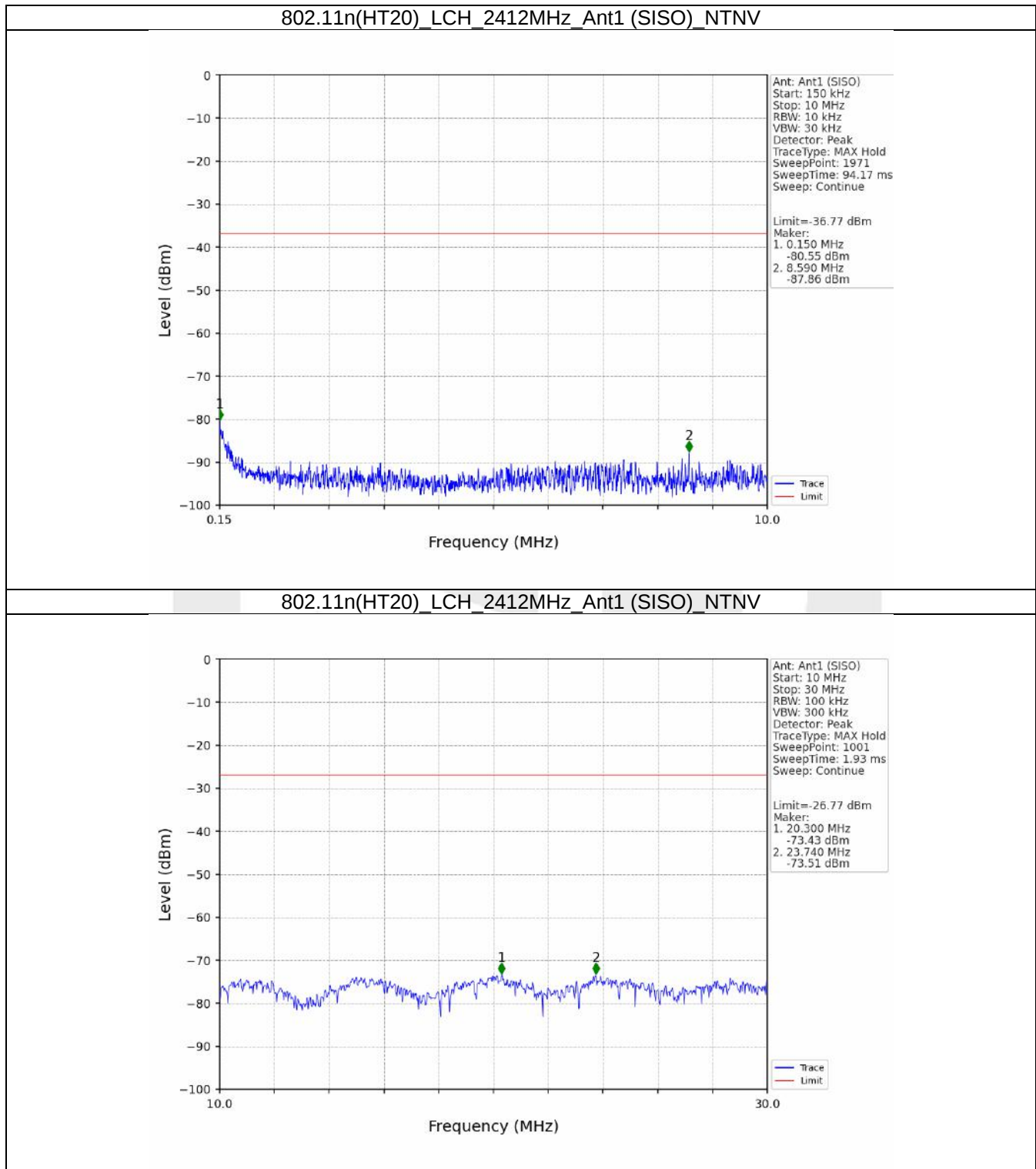


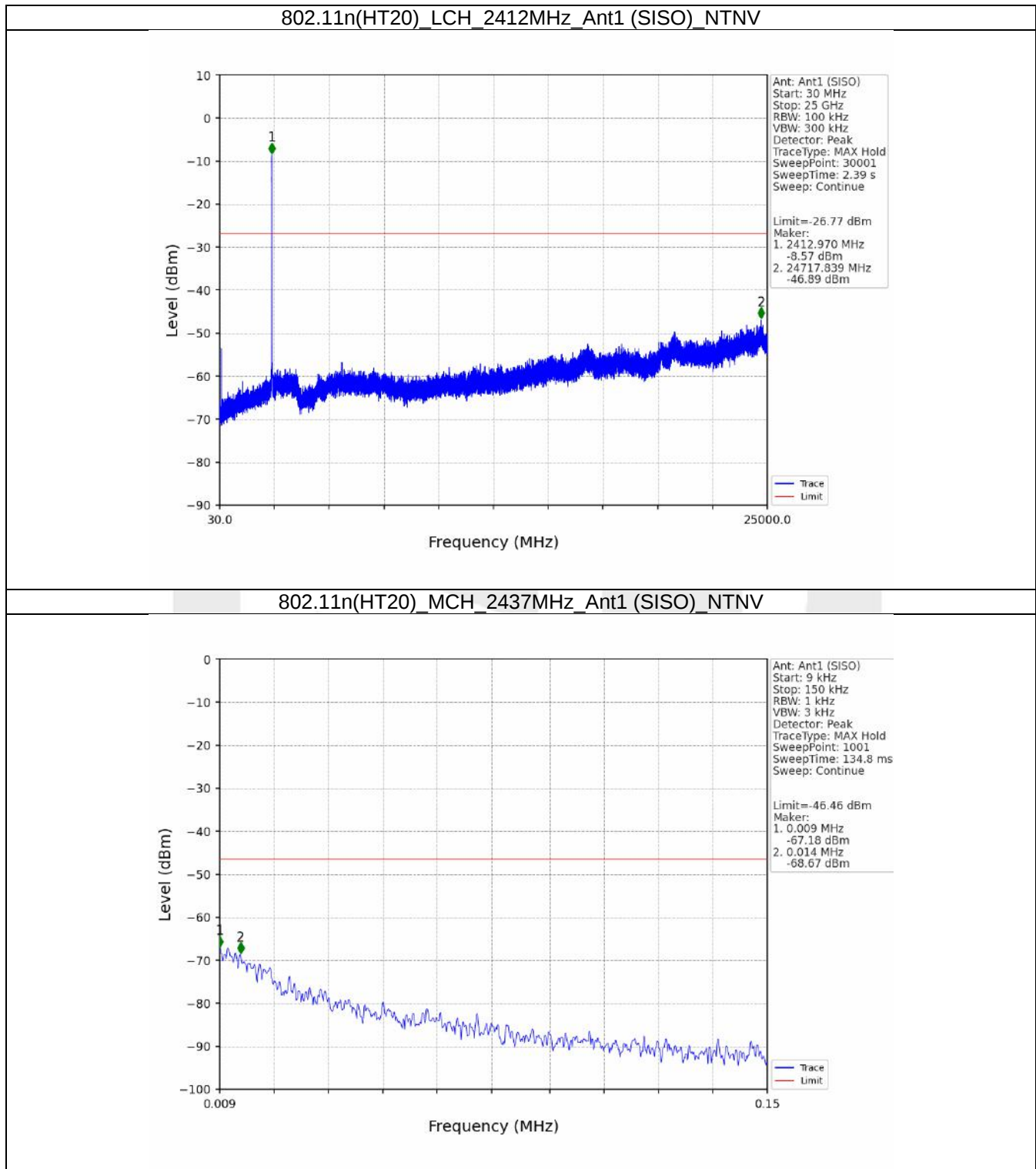


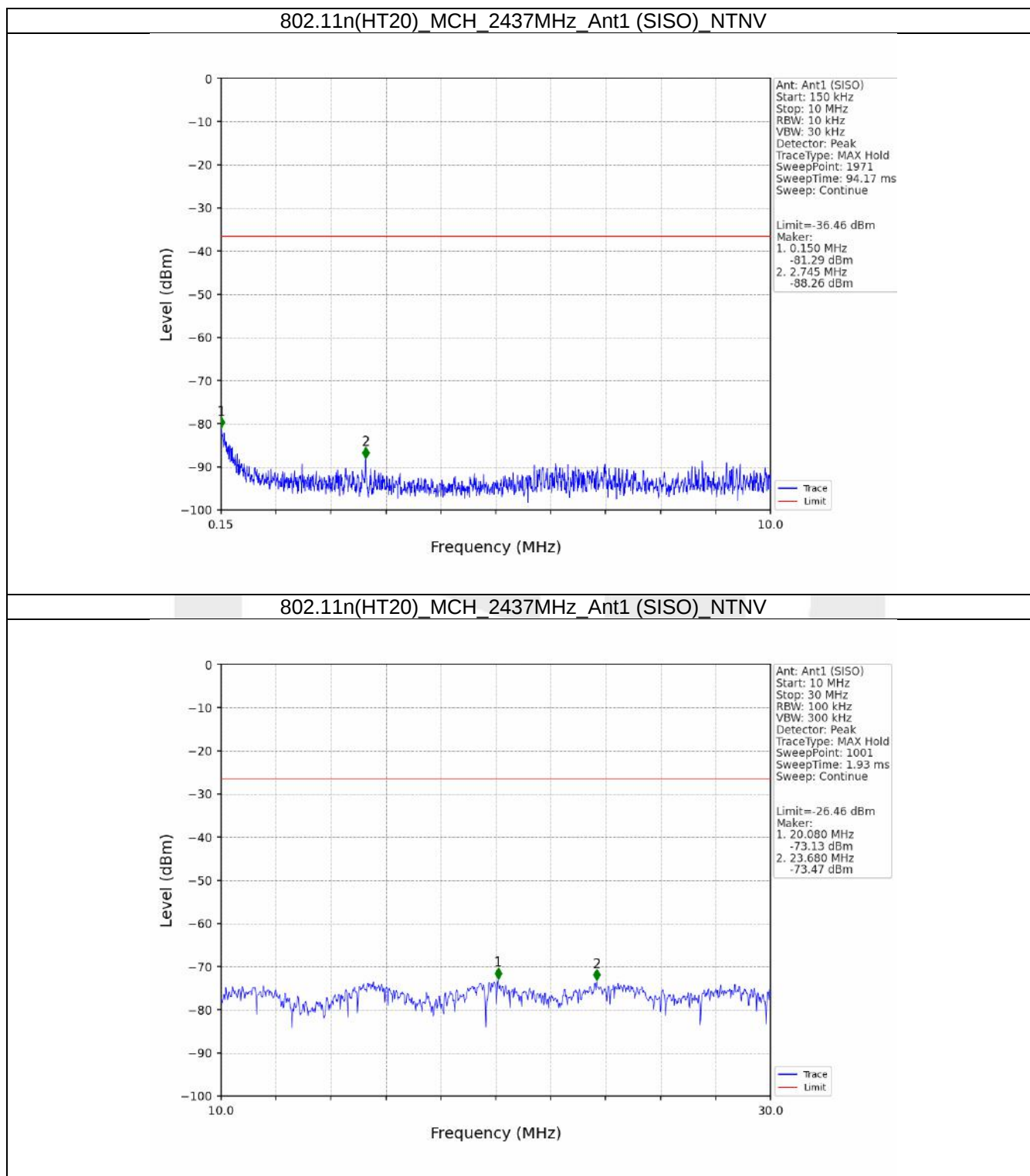


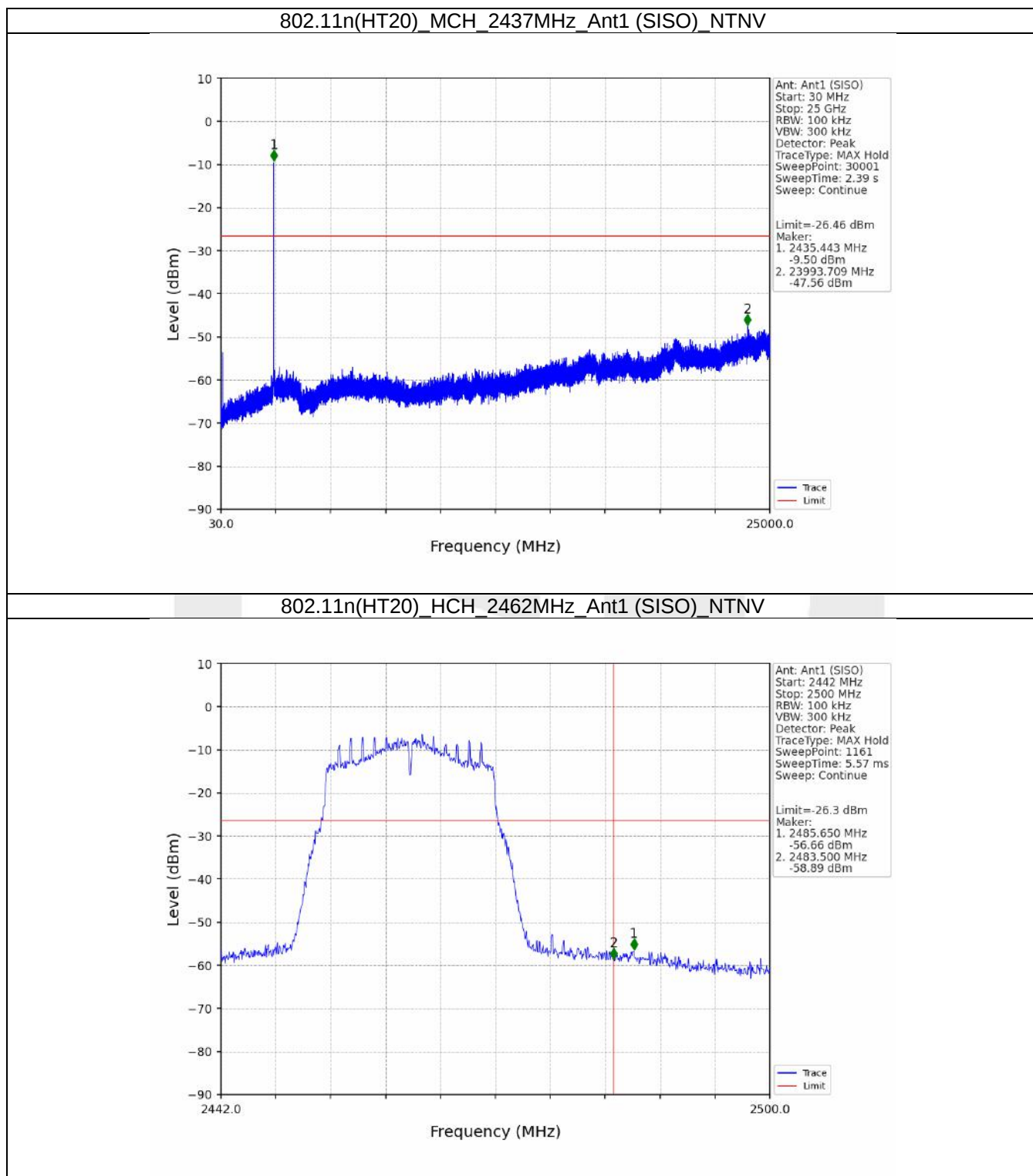


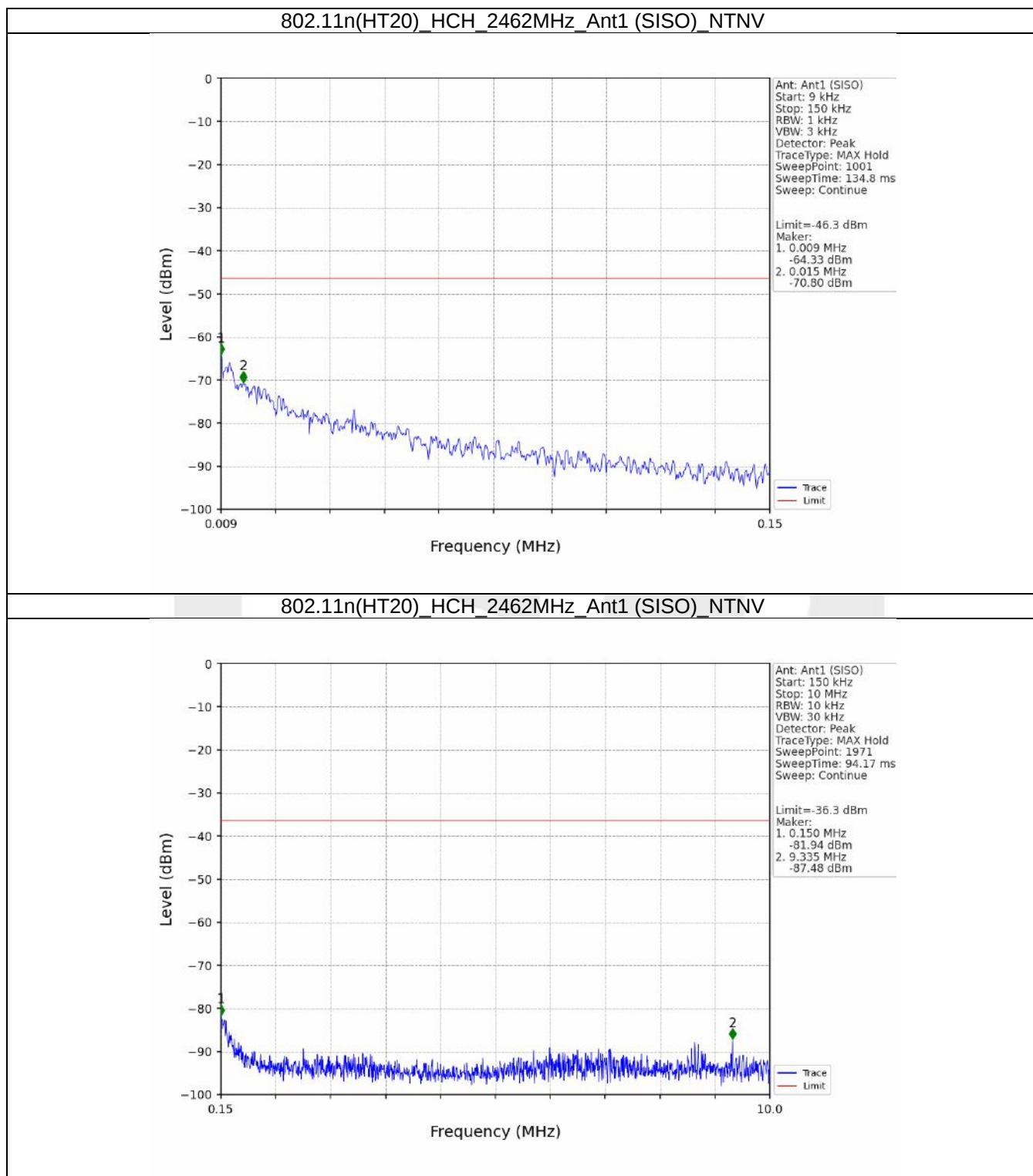


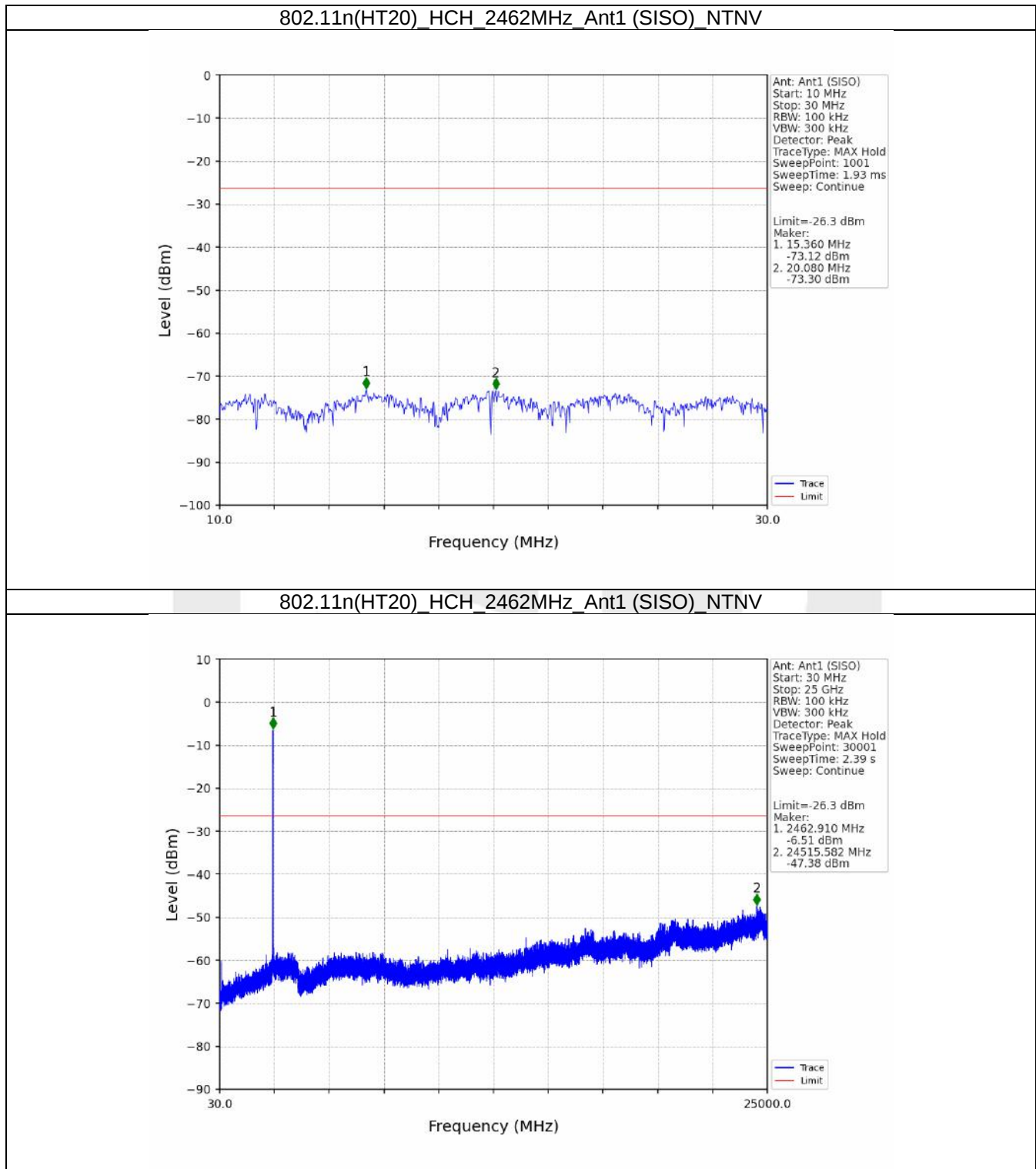


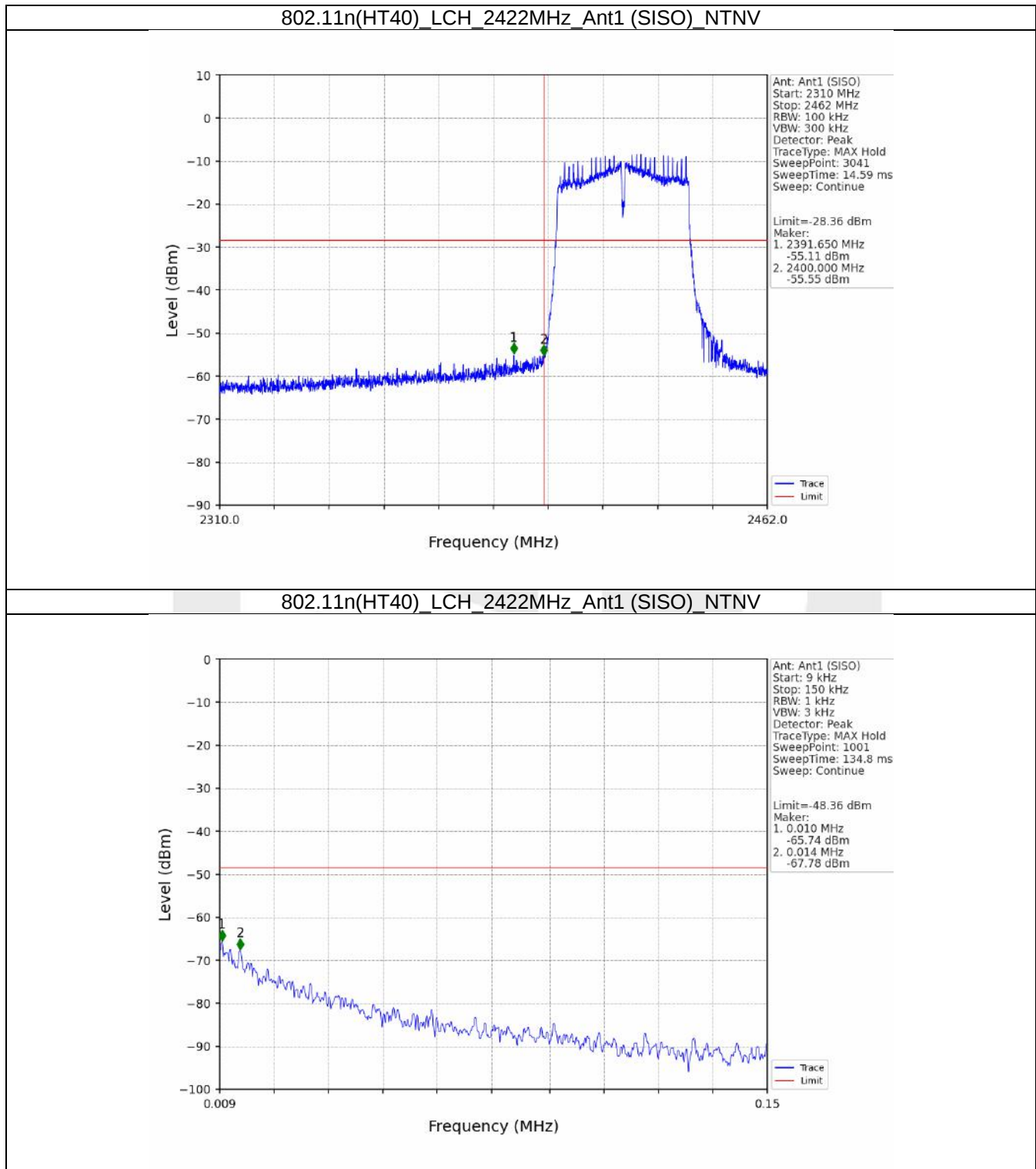


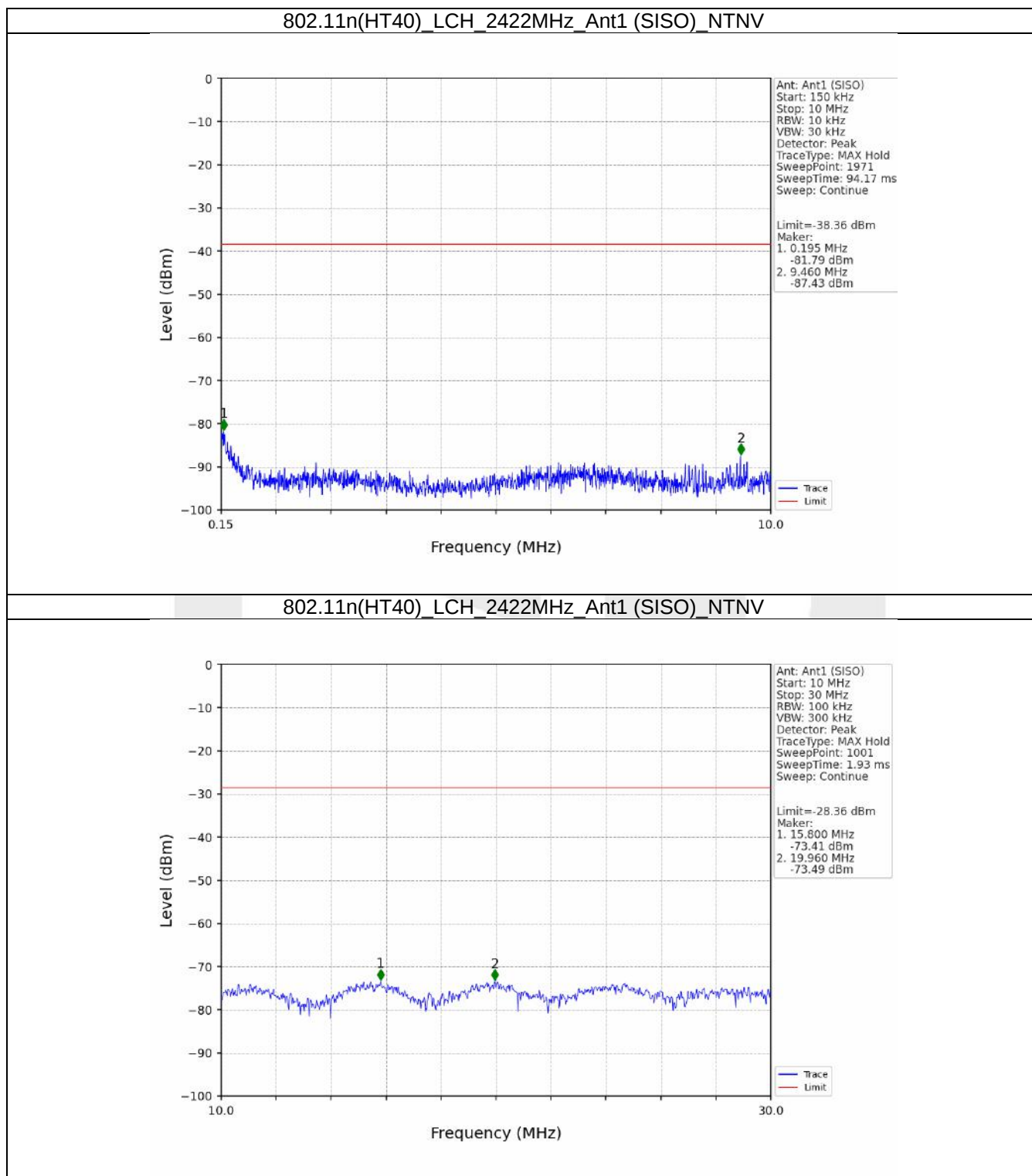


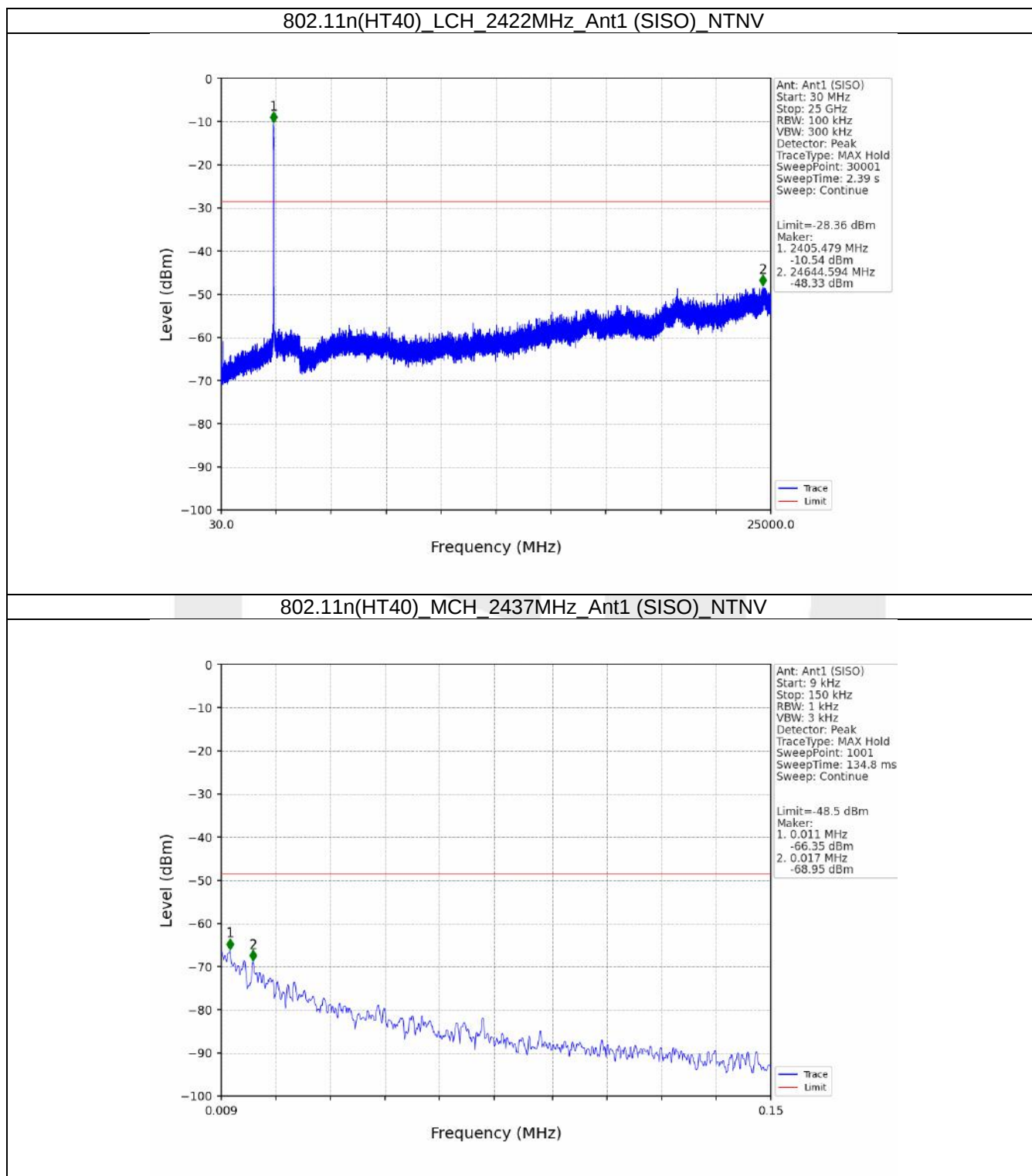


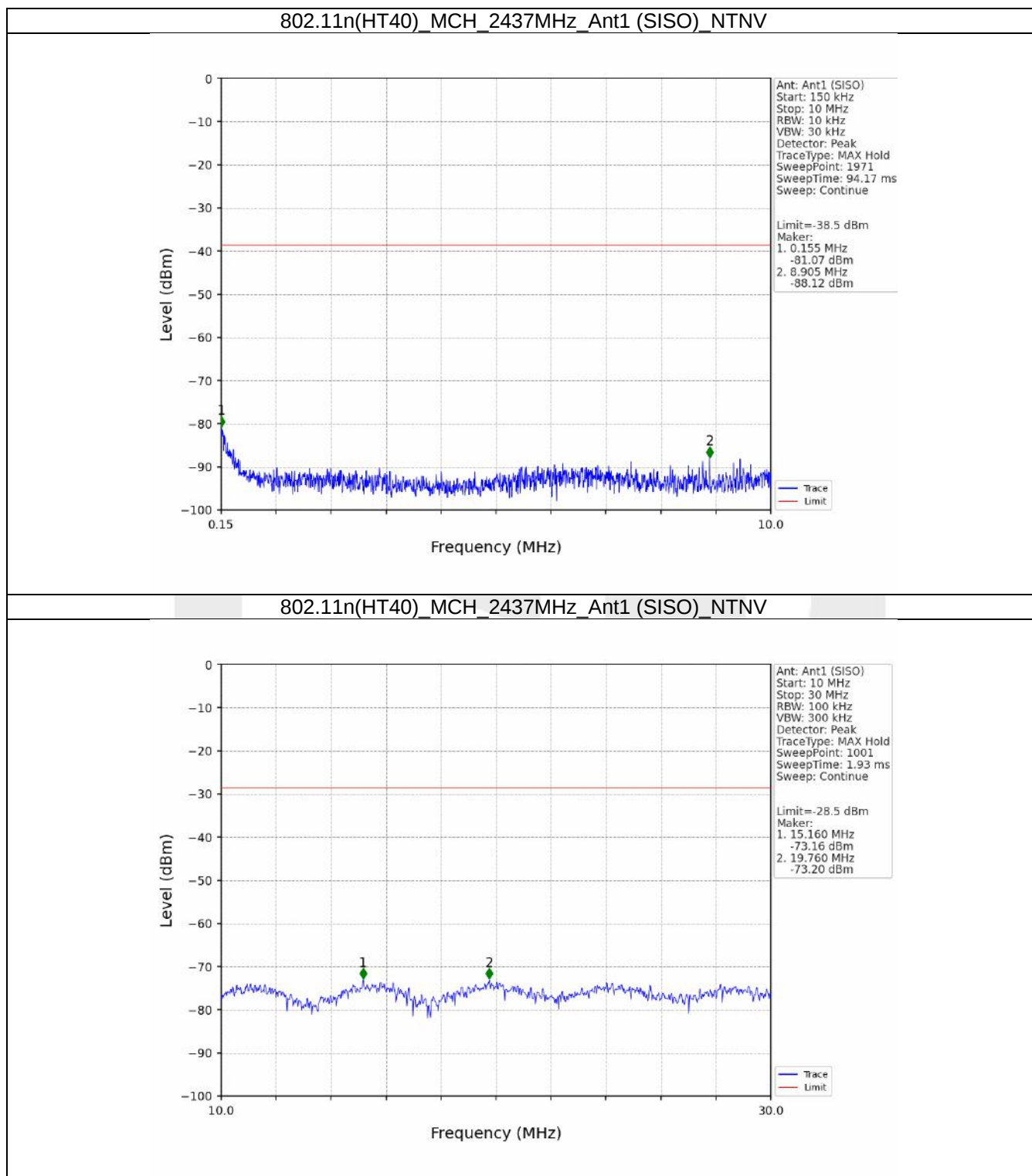


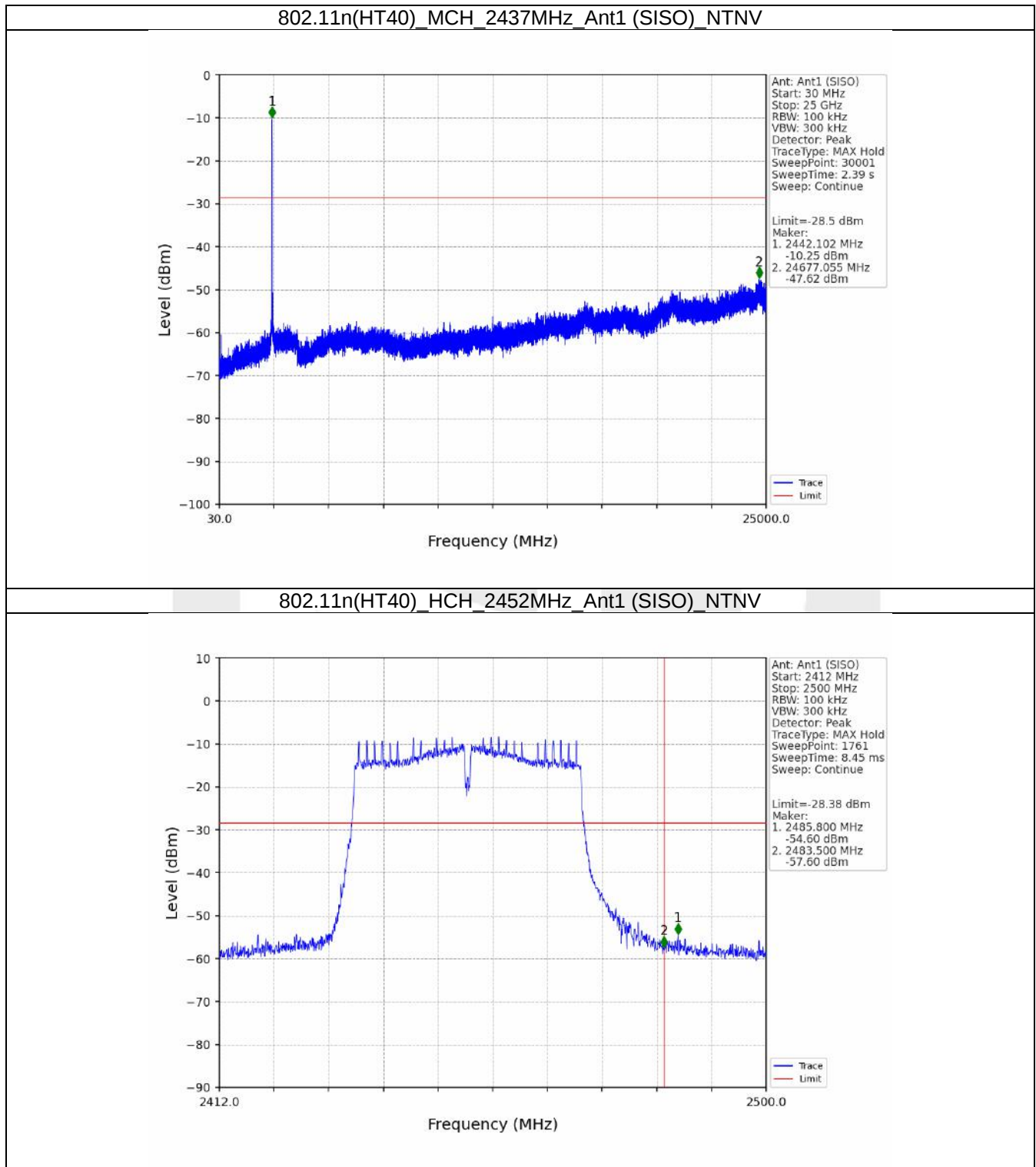


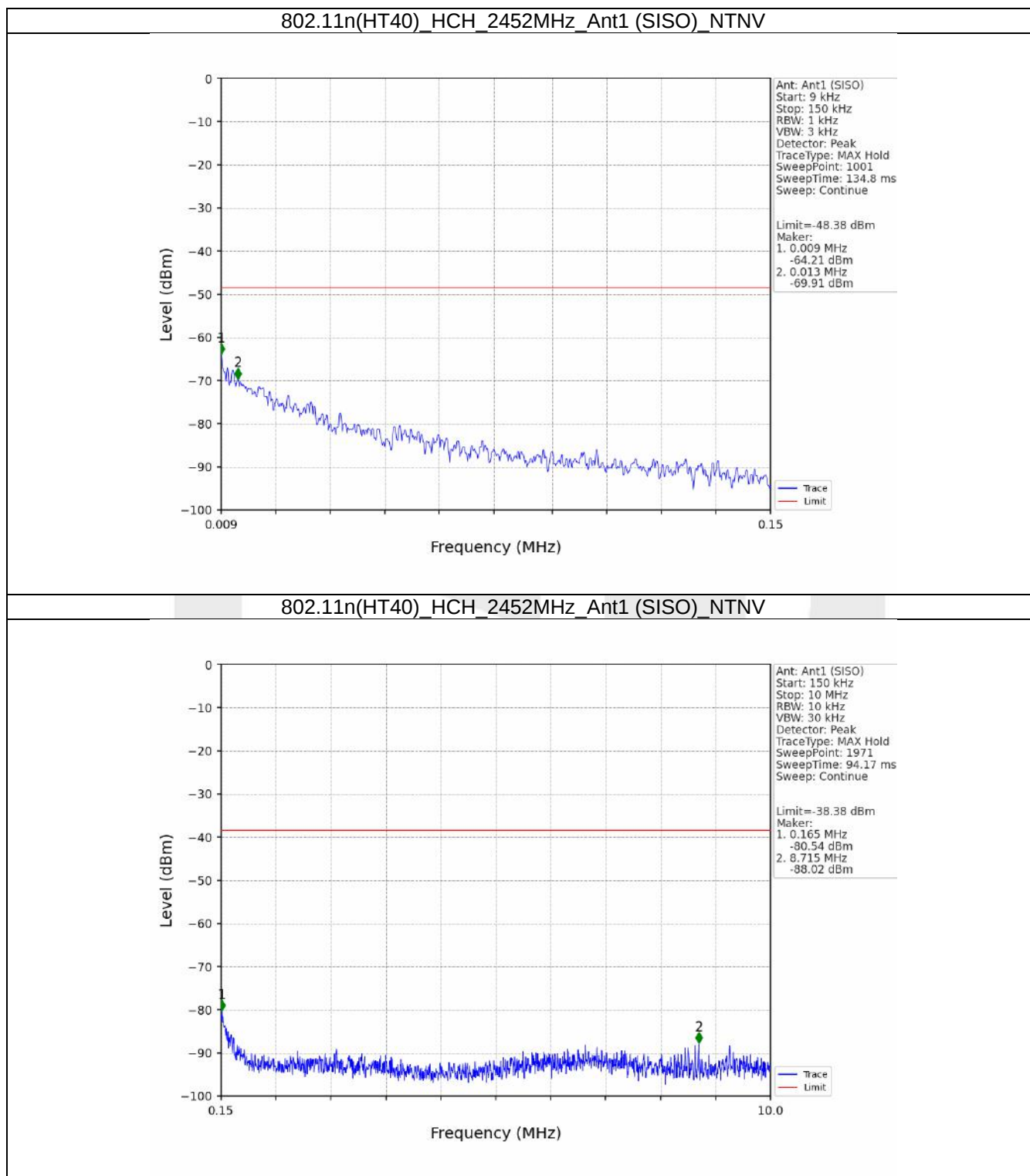


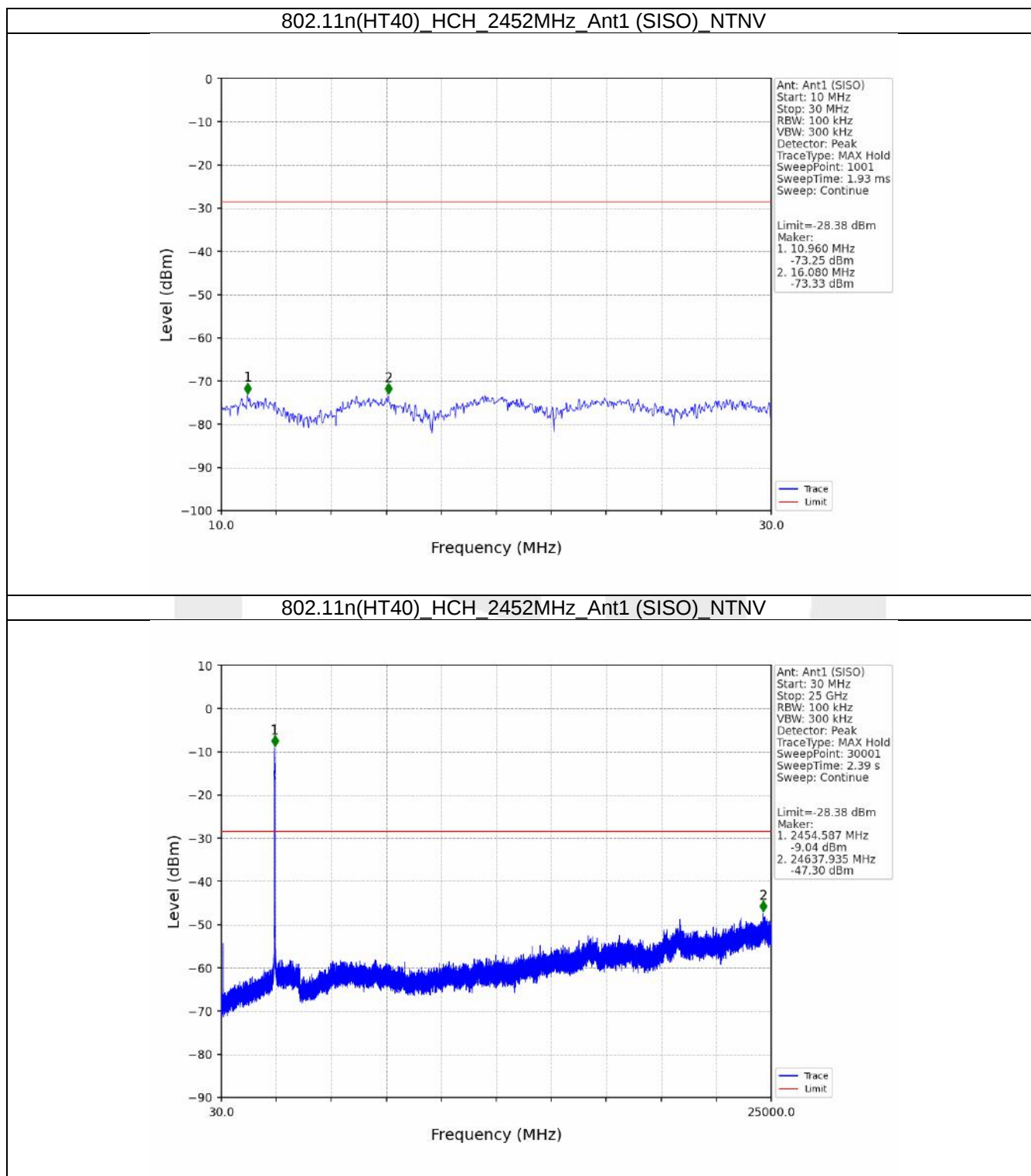












----- End of Report -----