

ANNEX E TEST DATA

For

Project No.:	8227EU011503W
Client:	Shenzhen Qianyan Technology LTD
Product Name:	Govee Curtain Lights 2
Model No.:	H70B3
FCC ID:	2A7VD-H70B5
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-05-27

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



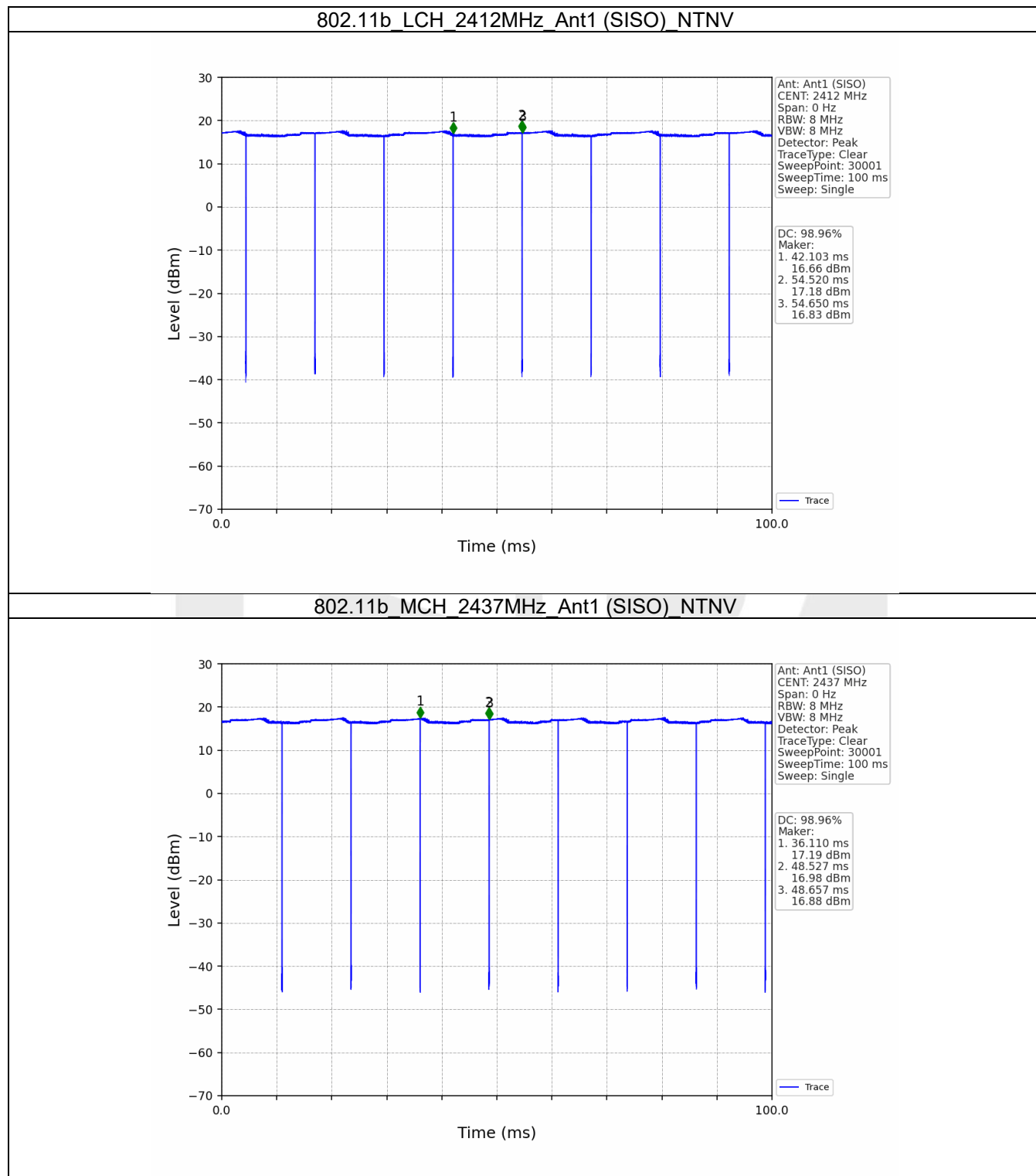
1. Duty Cycle

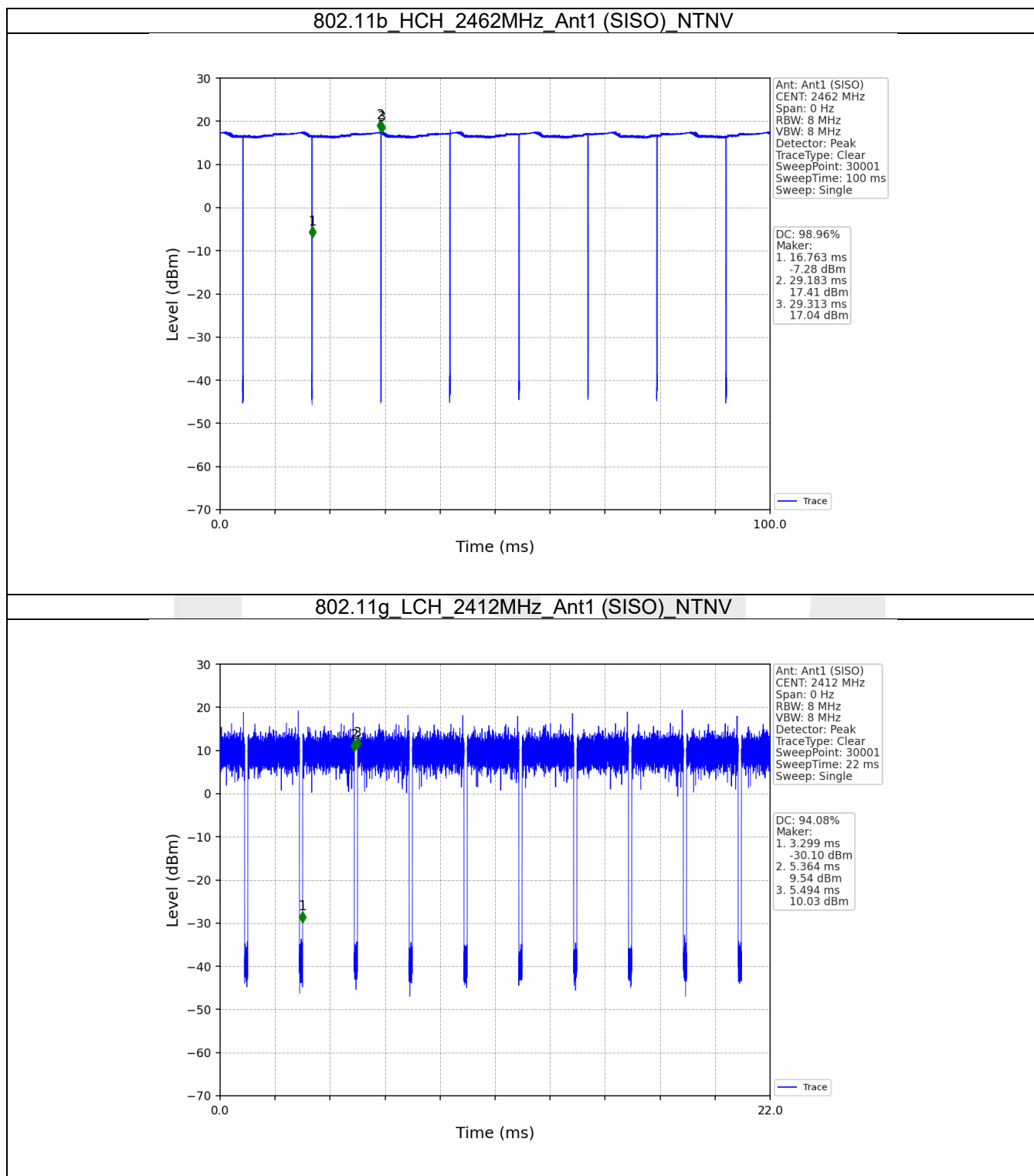
1.1 Ant1

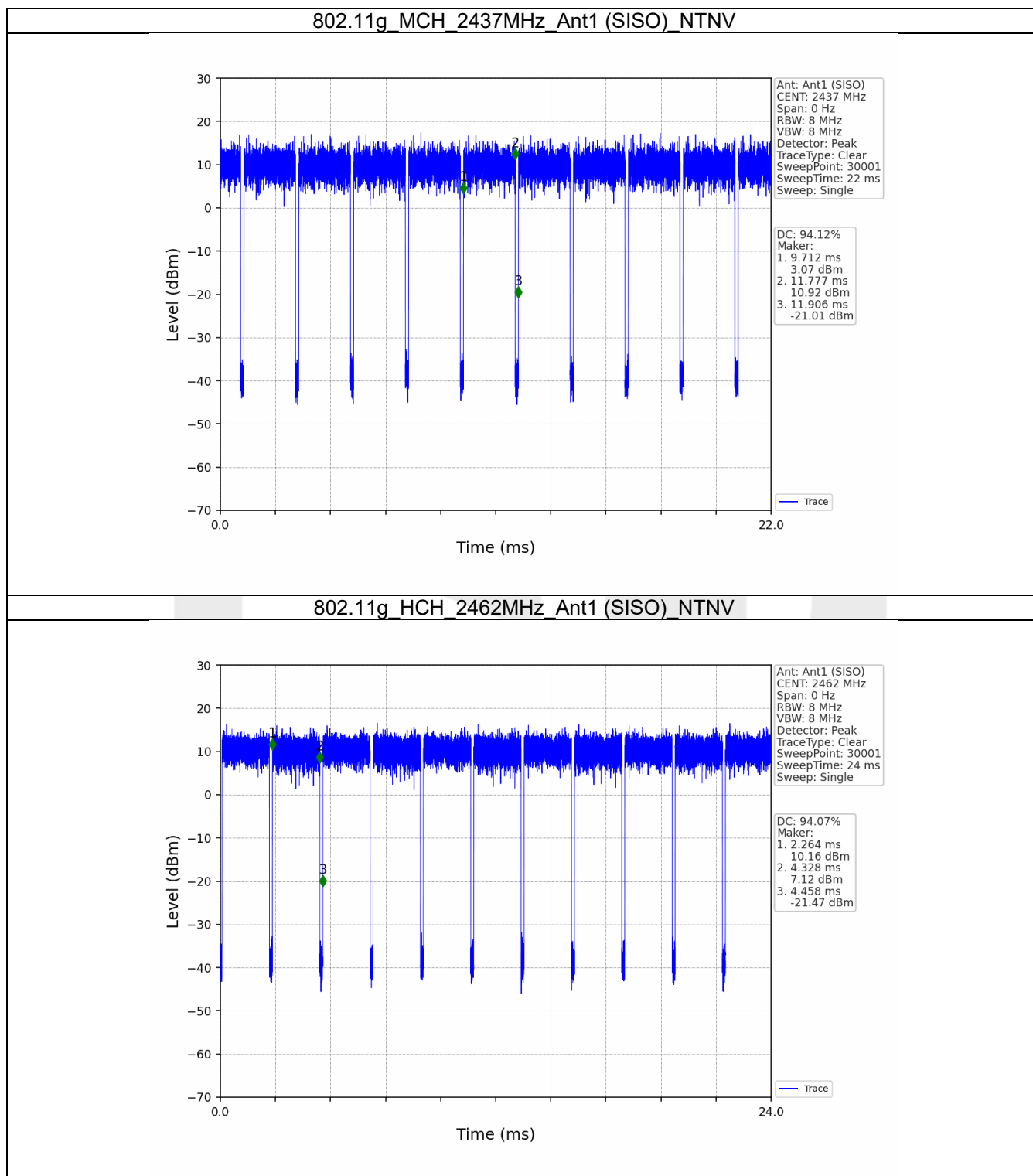
1.1.1 Test Result

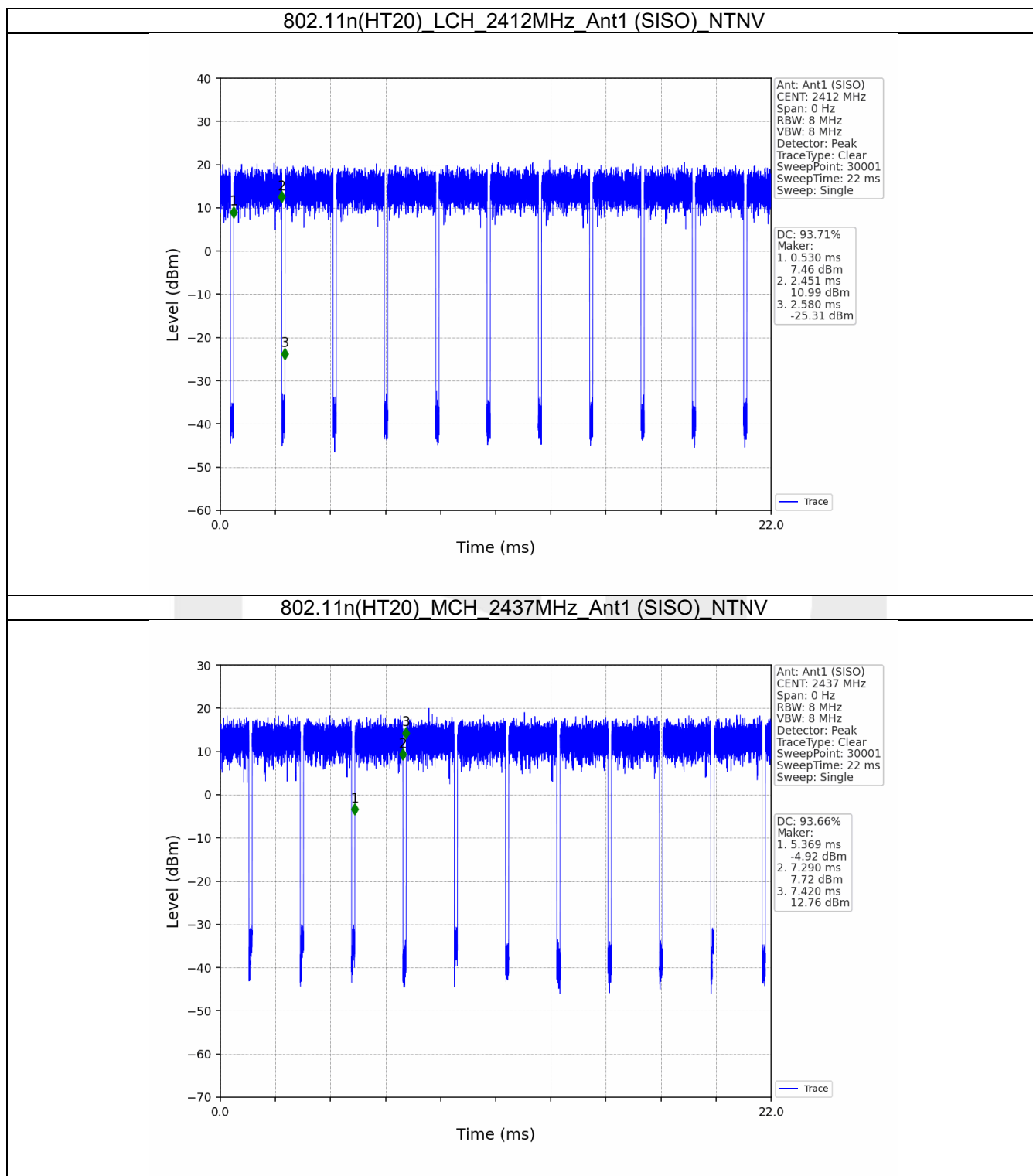
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.417	12.547	98.96	0.05	0.03
		2437	12.417	12.547	98.96	0.05	0.03
		2462	12.420	12.550	98.96	0.05	0.03
802.11g	SISO	2412	2.065	2.195	94.08	0.27	0.03
		2437	2.065	2.194	94.12	0.26	0.00
		2462	2.064	2.194	94.07	0.27	0.04
802.11n (HT20)	SISO	2412	1.921	2.050	93.71	0.28	0.00
		2437	1.921	2.051	93.66	0.28	0.07
		2462	1.920	2.049	93.70	0.28	0.04

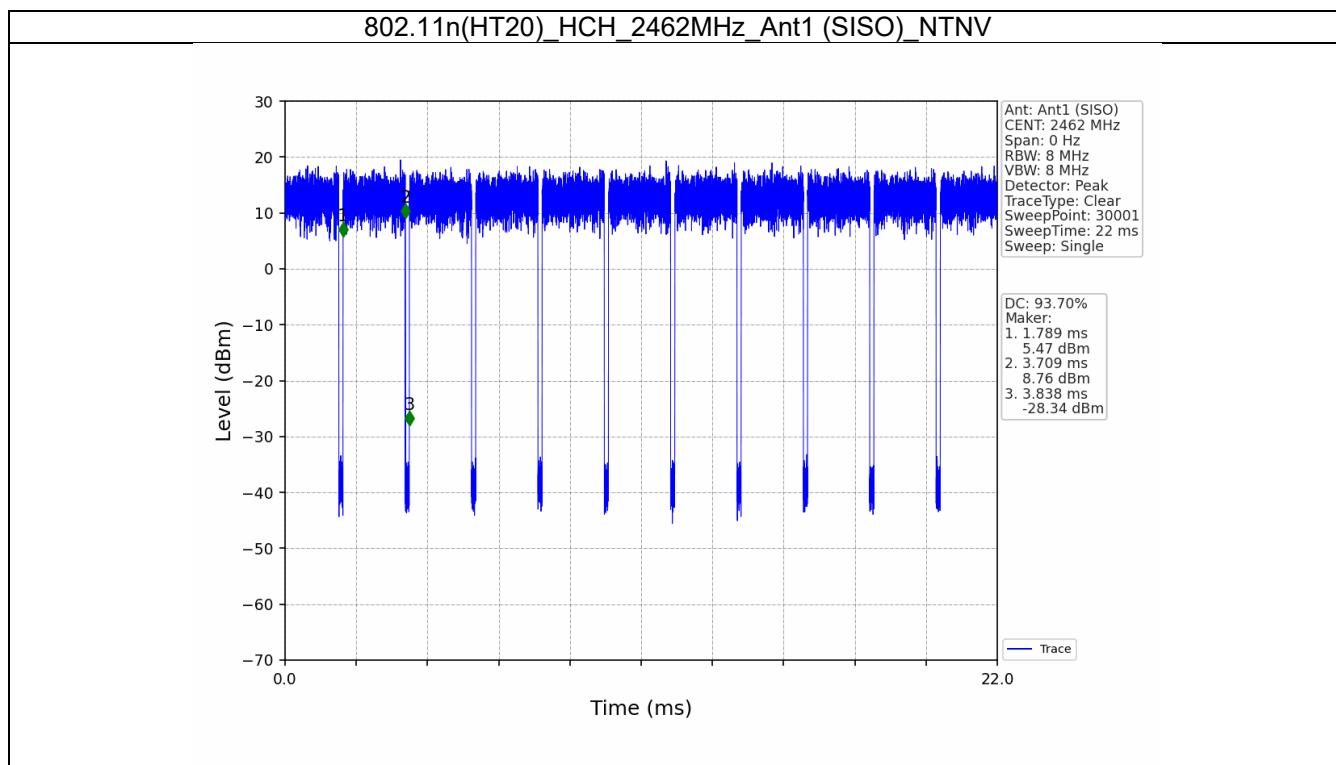
1.1.2 Test Graph











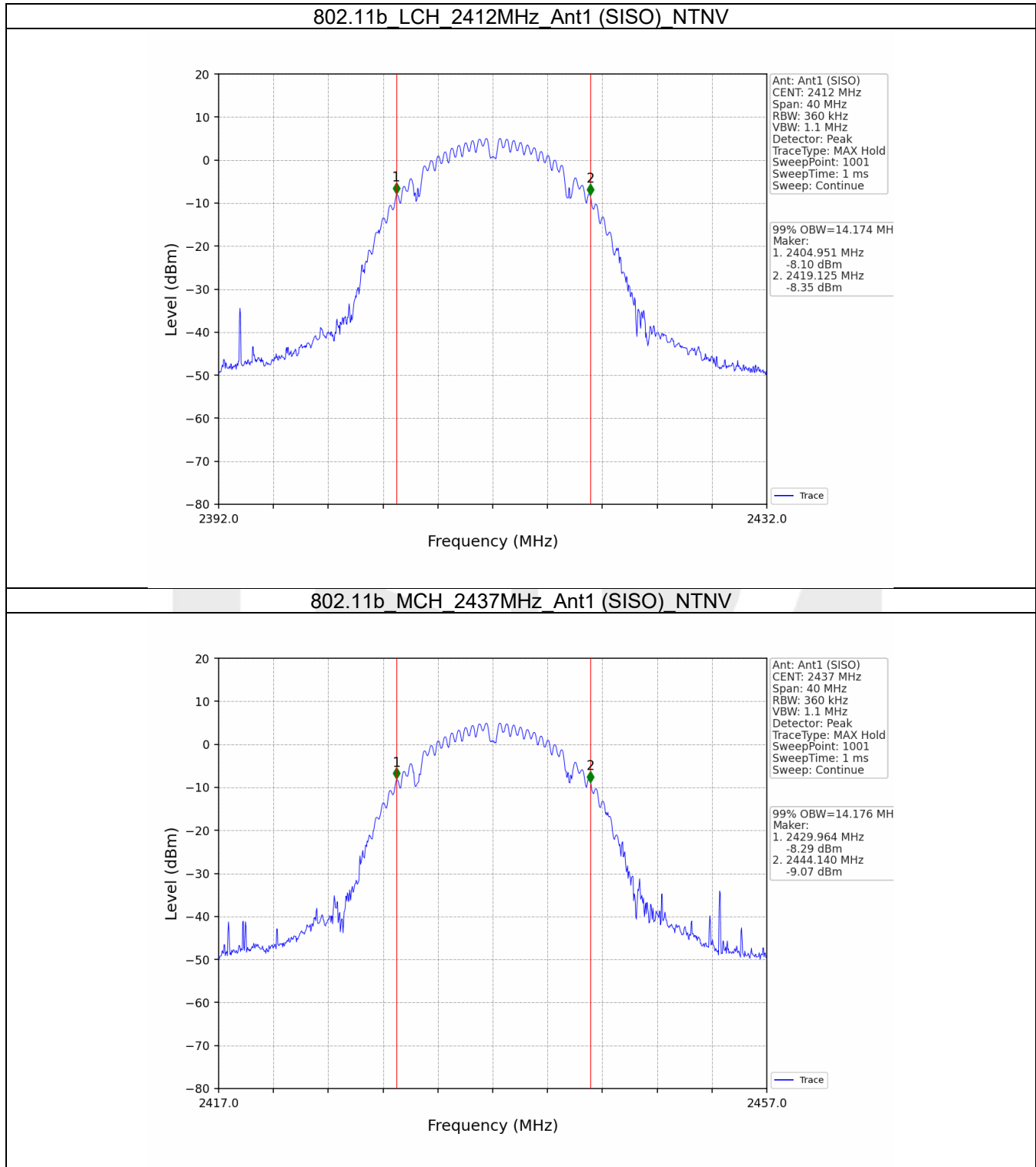
2. Bandwidth

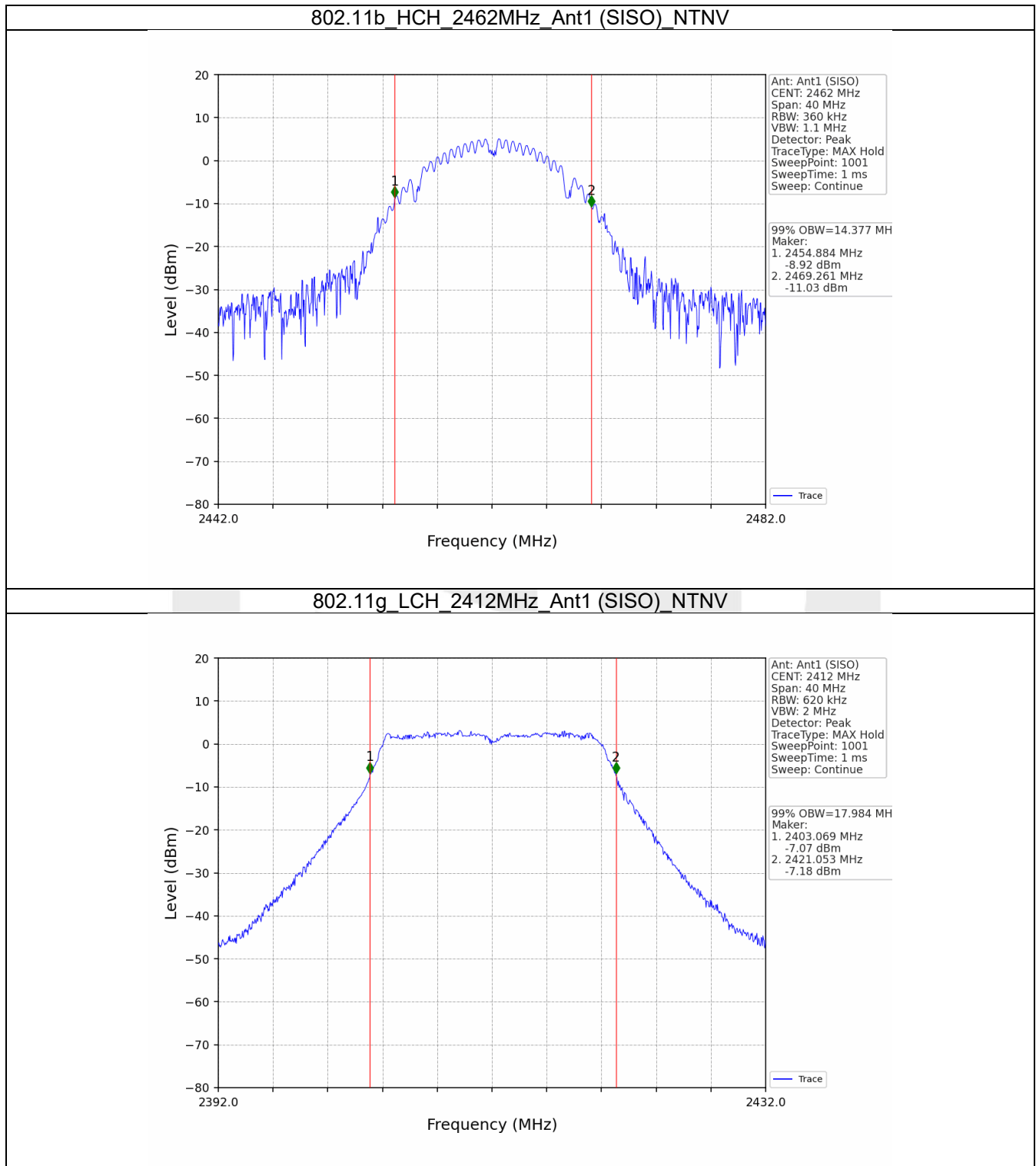
2.1 OBW

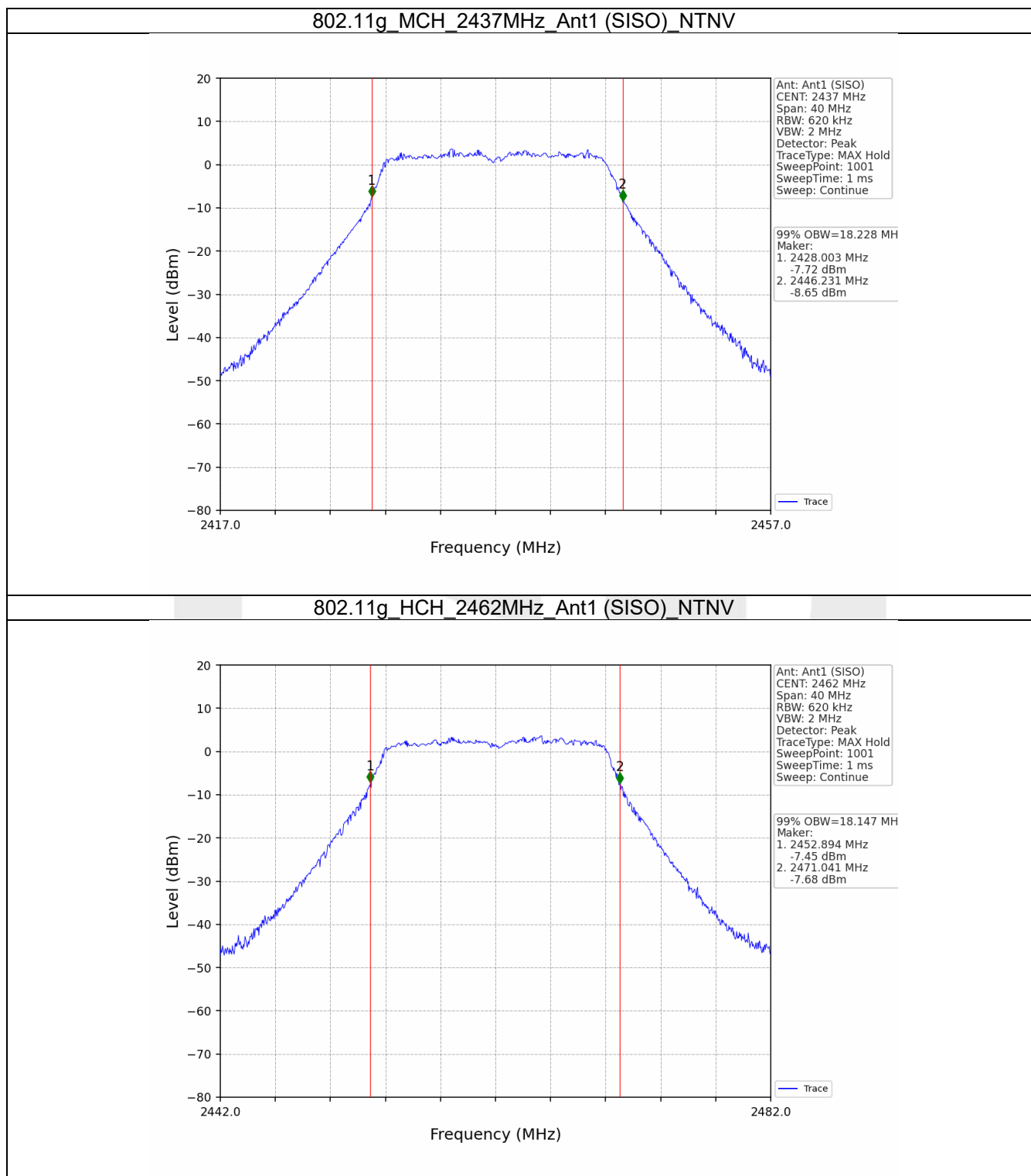
2.1.1 Test Result

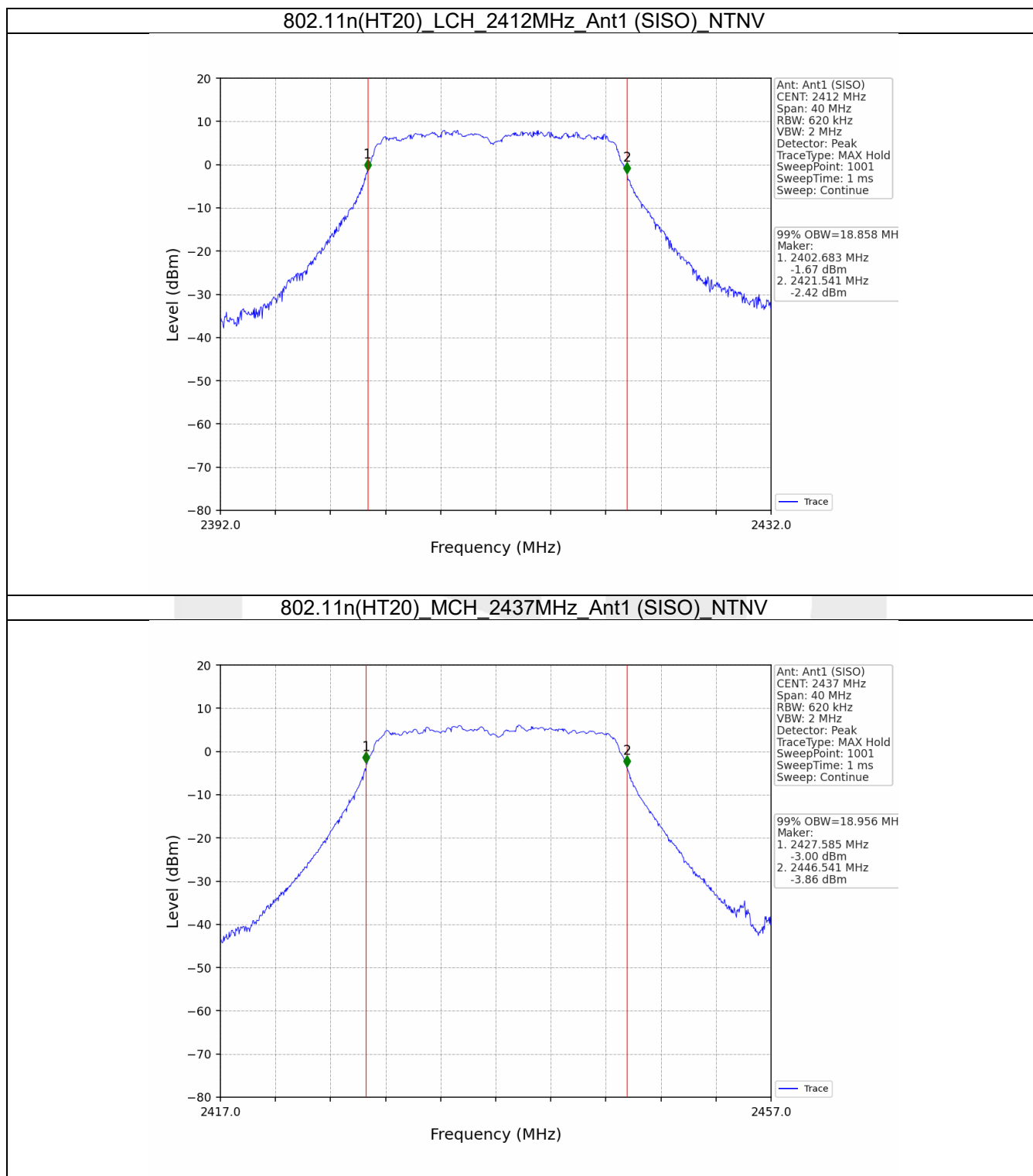
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.174	/	Pass
		2437	1	14.176	/	Pass
		2462	1	14.377	/	Pass
802.11g	SISO	2412	1	17.984	/	Pass
		2437	1	18.228	/	Pass
		2462	1	18.147	/	Pass
802.11n (HT20)	SISO	2412	1	18.858	/	Pass
		2437	1	18.956	/	Pass
		2462	1	19.514	/	Pass

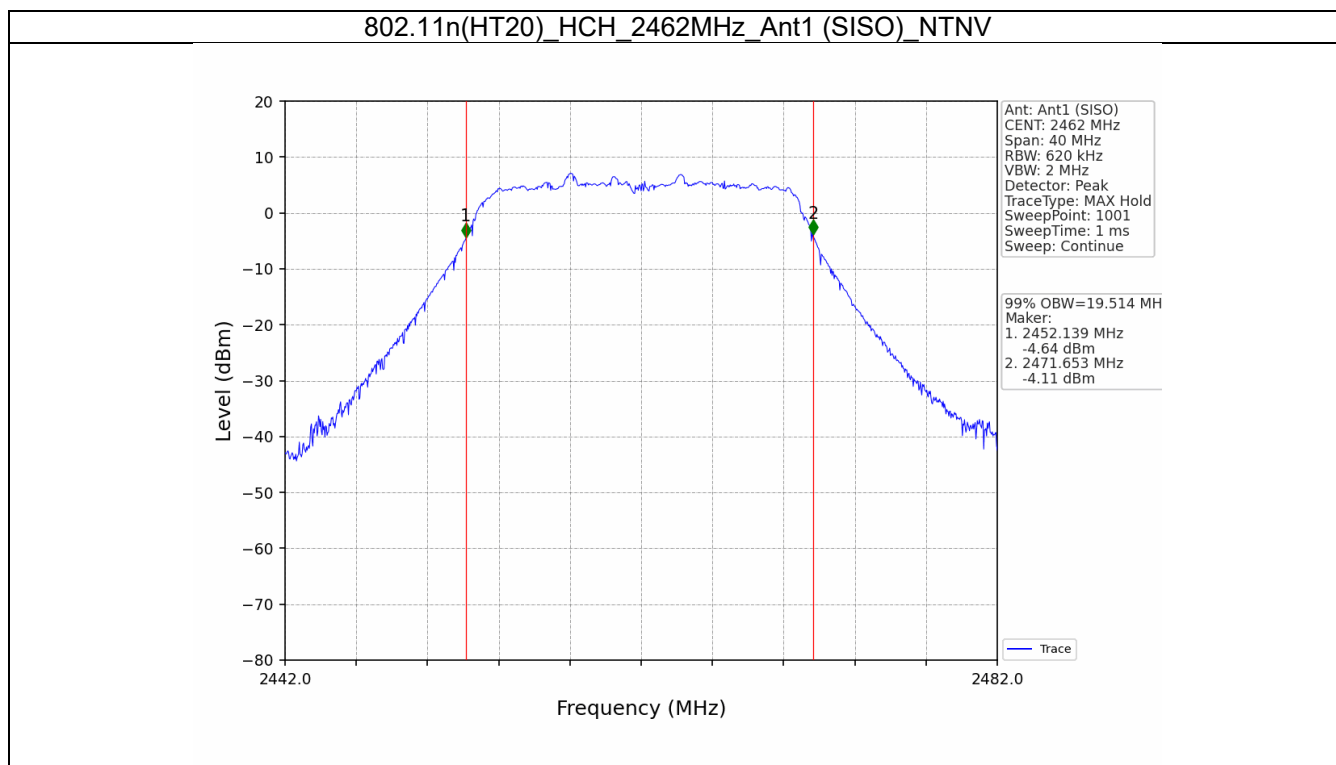
2.1.2 Test Graph









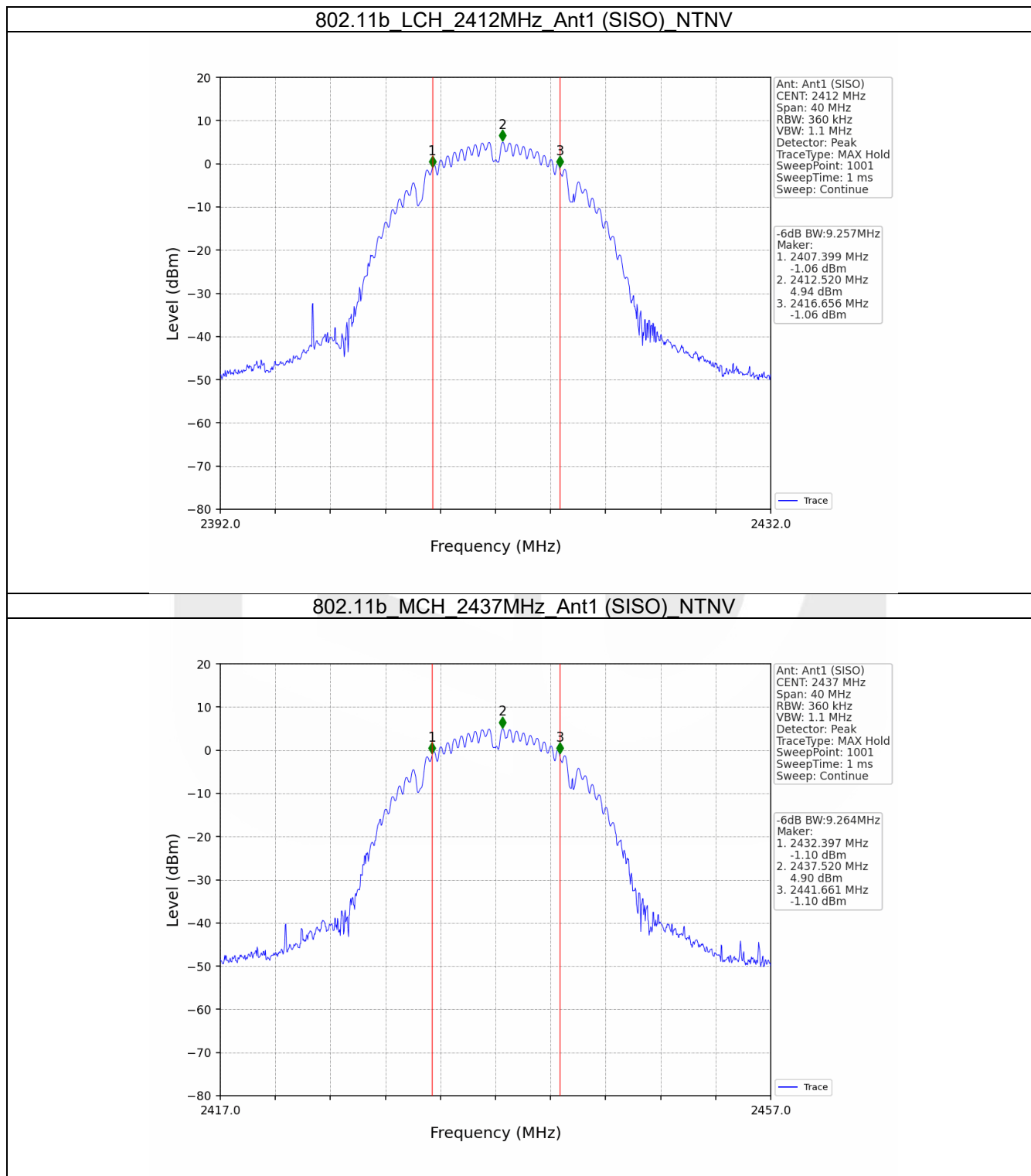


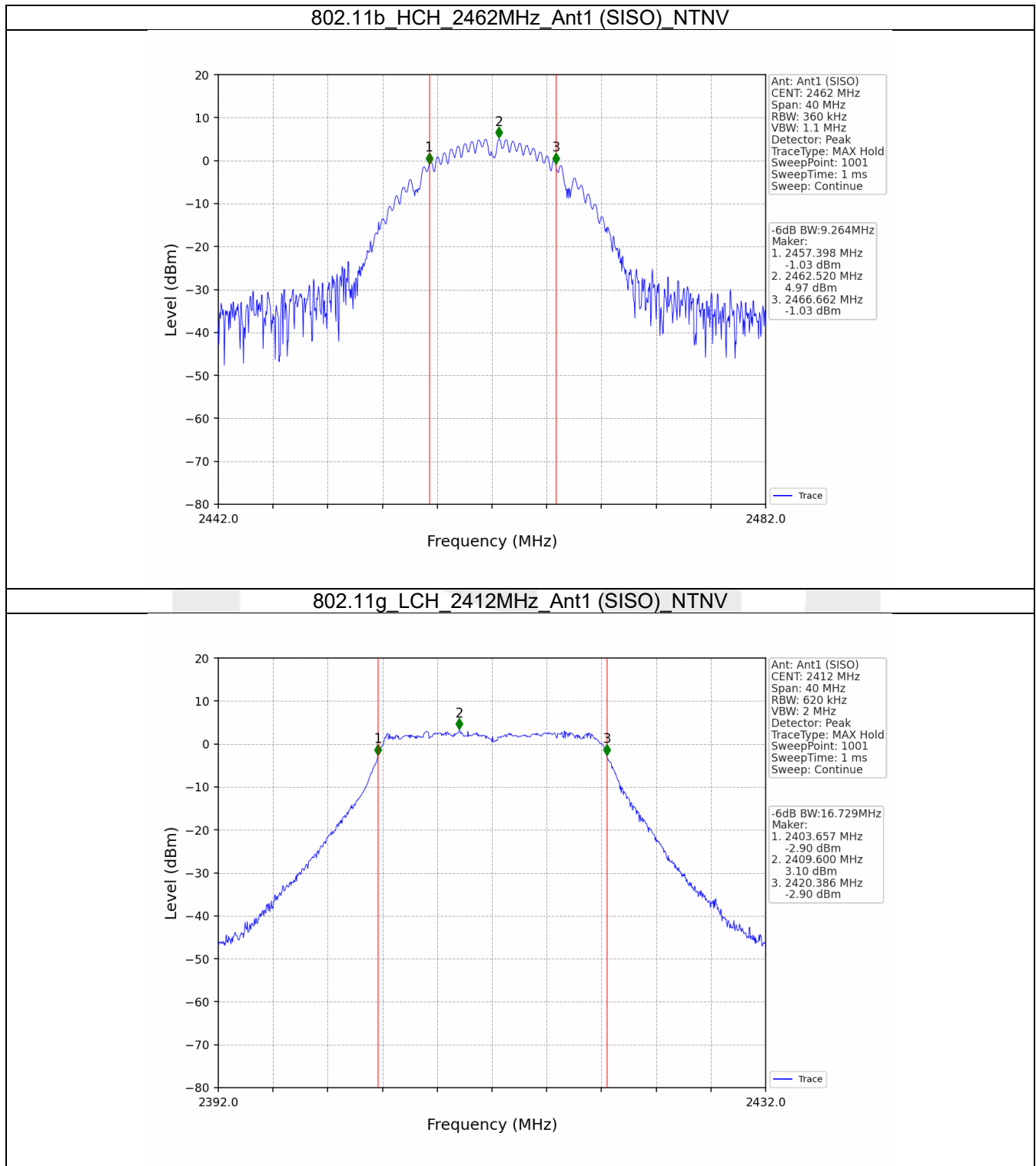
2.2 6dB BW

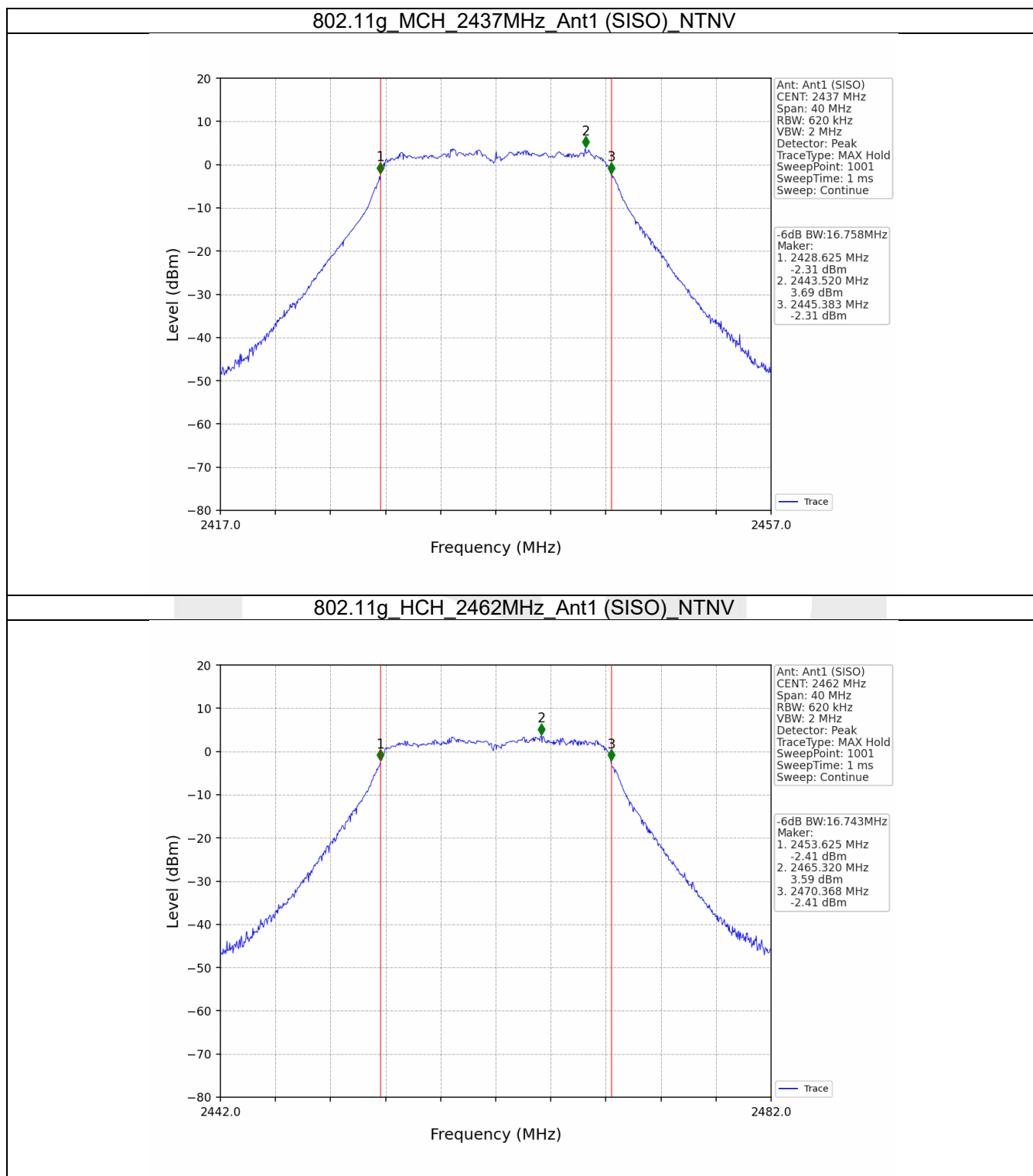
2.2.1 Test Result

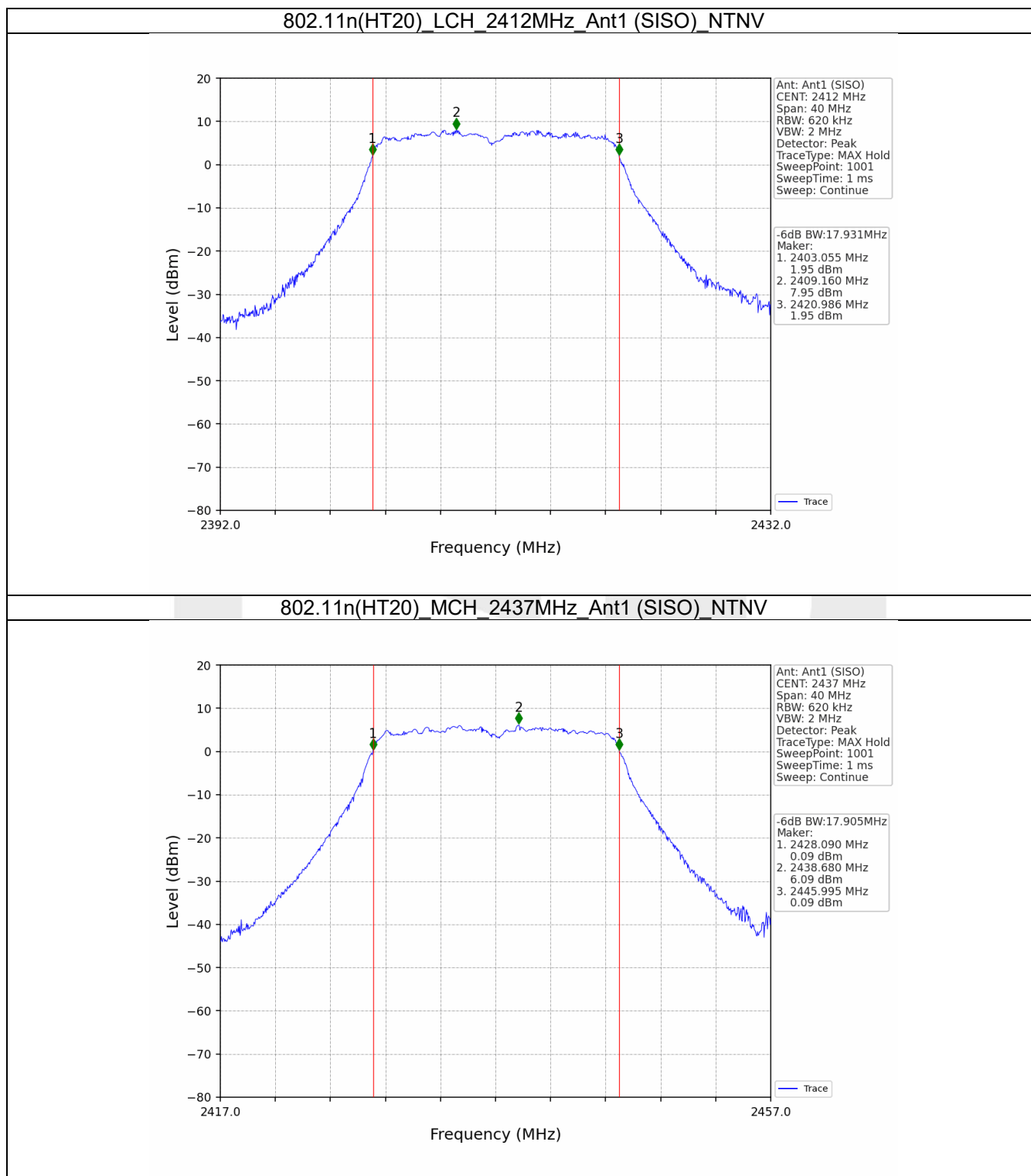
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.257	≥ 0.5	Pass
		2437	1	9.264	≥ 0.5	Pass
		2462	1	9.264	≥ 0.5	Pass
802.11g	SISO	2412	1	16.729	≥ 0.5	Pass
		2437	1	16.758	≥ 0.5	Pass
		2462	1	16.743	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.931	≥ 0.5	Pass
		2437	1	17.905	≥ 0.5	Pass
		2462	1	18.046	≥ 0.5	Pass

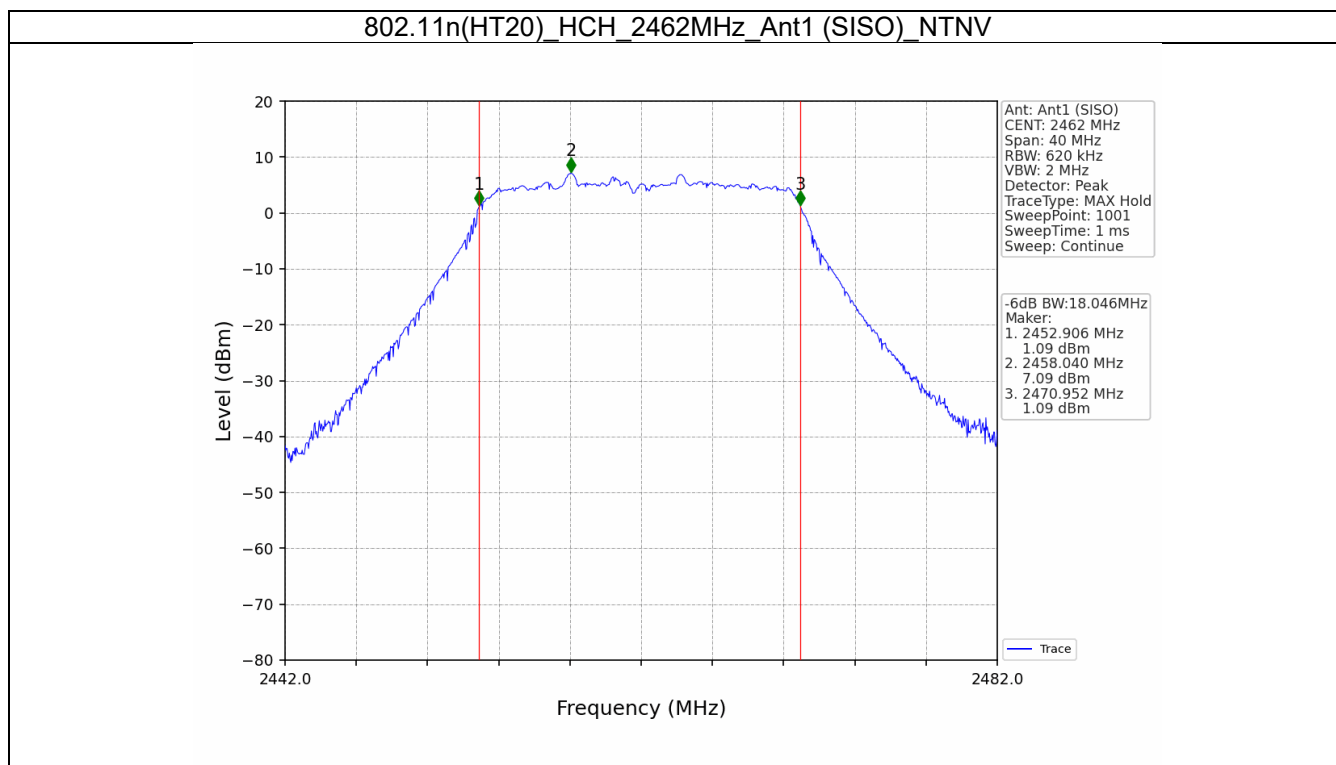
2.2.2 Test Graph











3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	15.67	<=30	Pass
		2437	15.67	<=30	Pass
		2462	15.73	<=30	Pass
802.11g	SISO	2412	16.70	<=30	Pass
		2437	16.80	<=30	Pass
		2462	16.85	<=30	Pass
802.11n (HT20)	SISO	2412	21.59	<=30	Pass
		2437	19.77	<=30	Pass
		2462	19.88	<=30	Pass

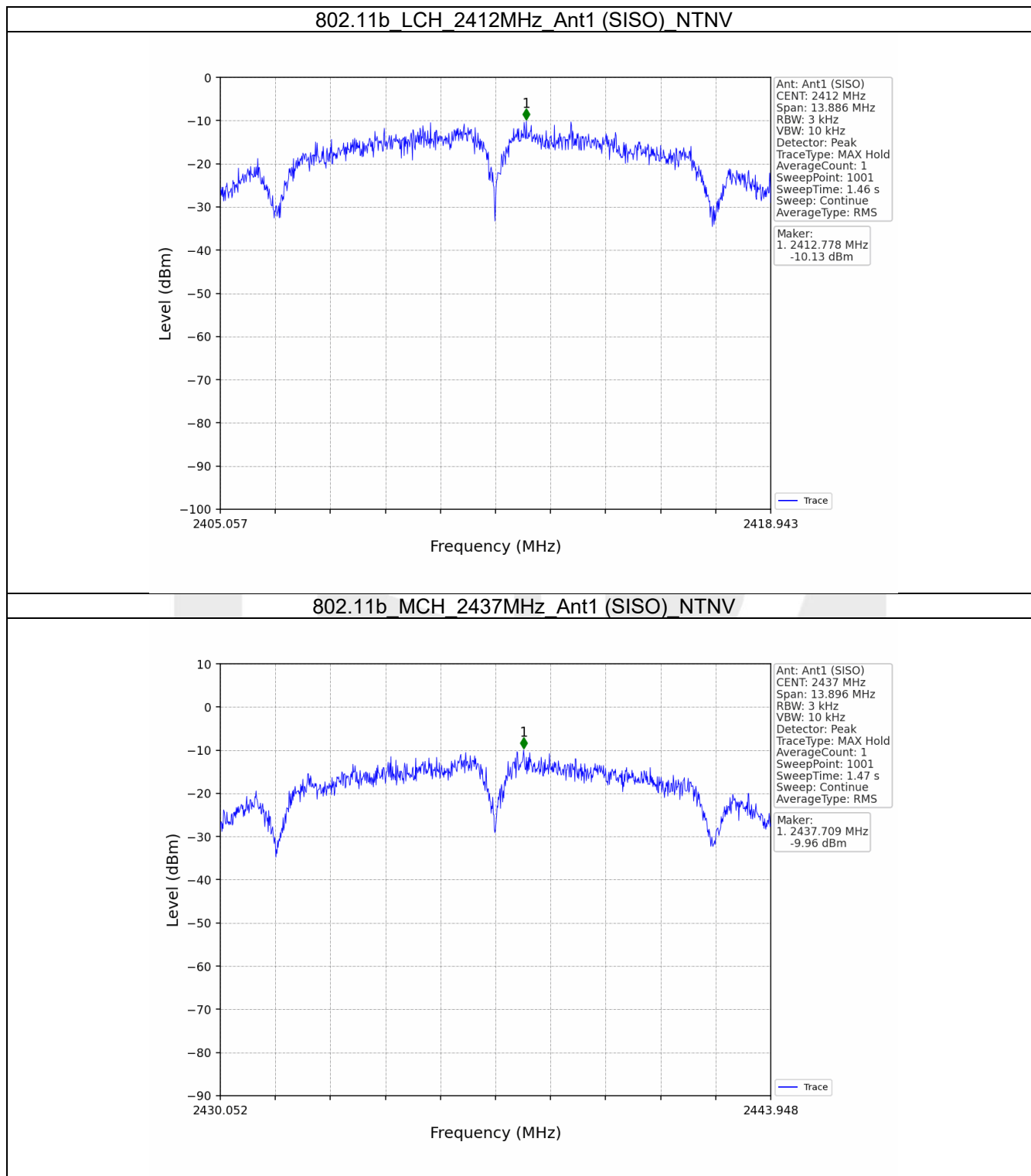
4. Maximum Power Spectral Density

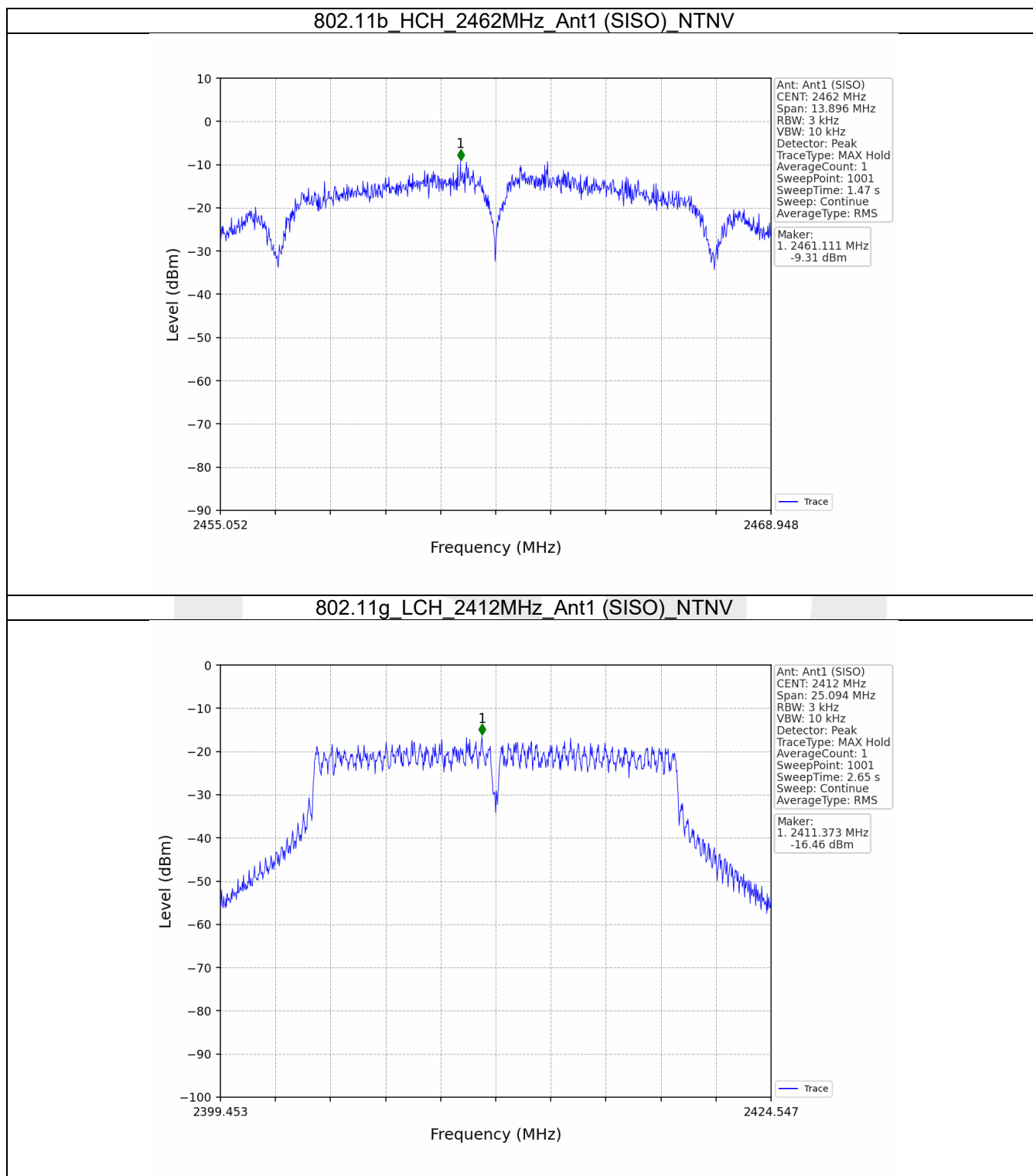
4.1 PSD

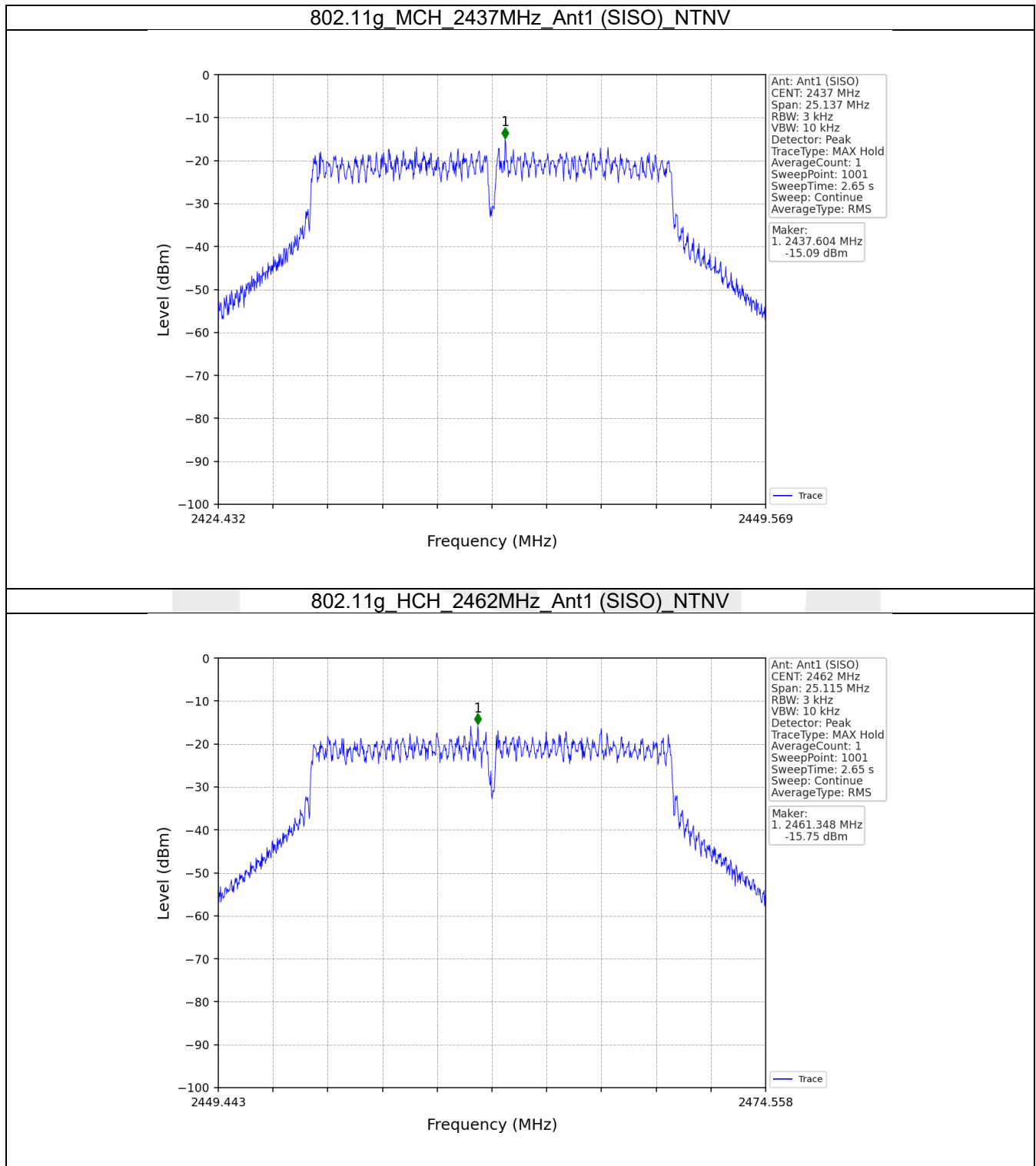
4.1.1 Test Result

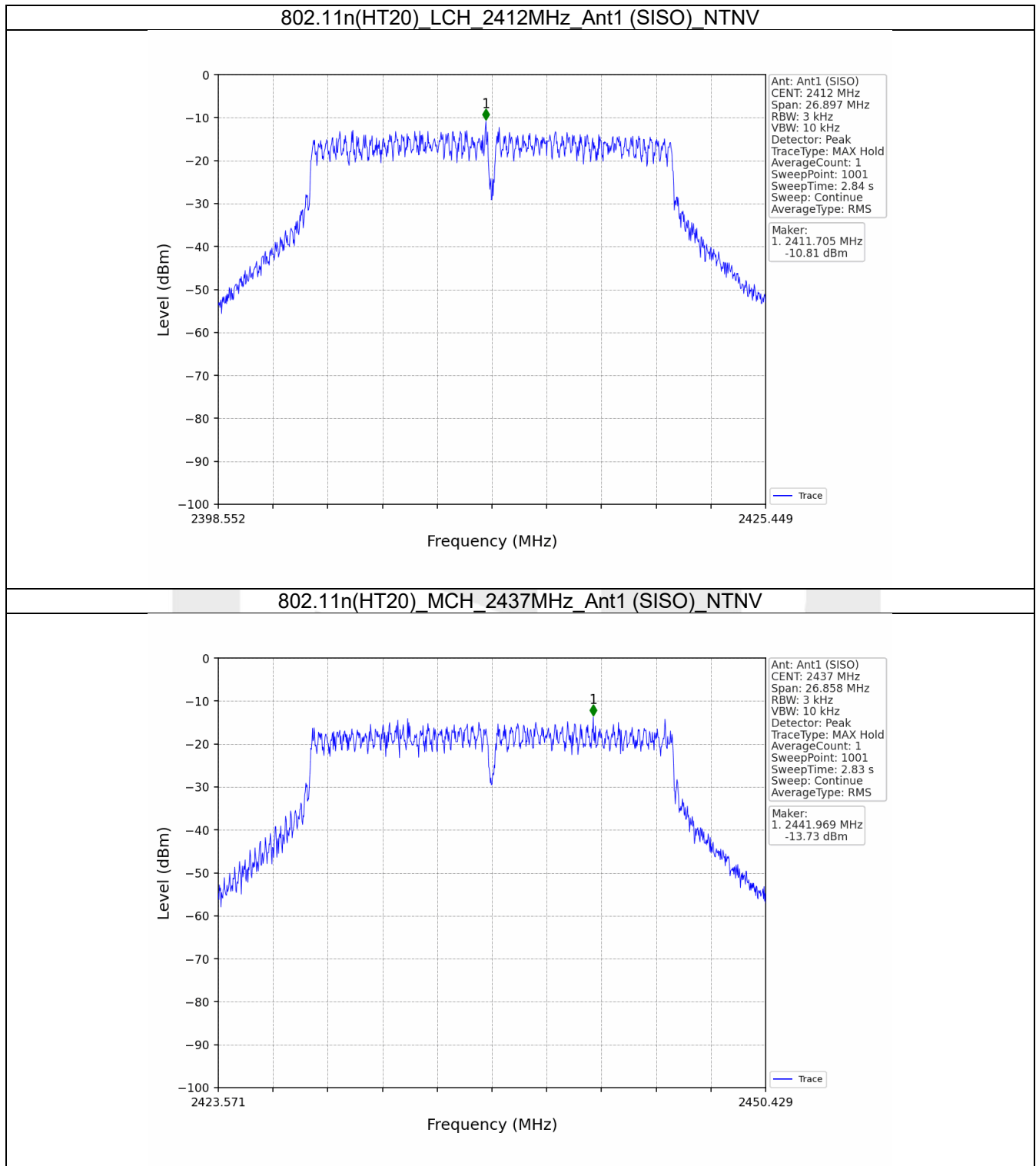
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-10.13	<=8	Pass
		2437	-9.96	<=8	Pass
		2462	-9.31	<=8	Pass
802.11g	SISO	2412	-16.46	<=8	Pass
		2437	-15.09	<=8	Pass
		2462	-15.75	<=8	Pass
802.11n (HT20)	SISO	2412	-10.81	<=8	Pass
		2437	-13.73	<=8	Pass
		2462	-13.43	<=8	Pass

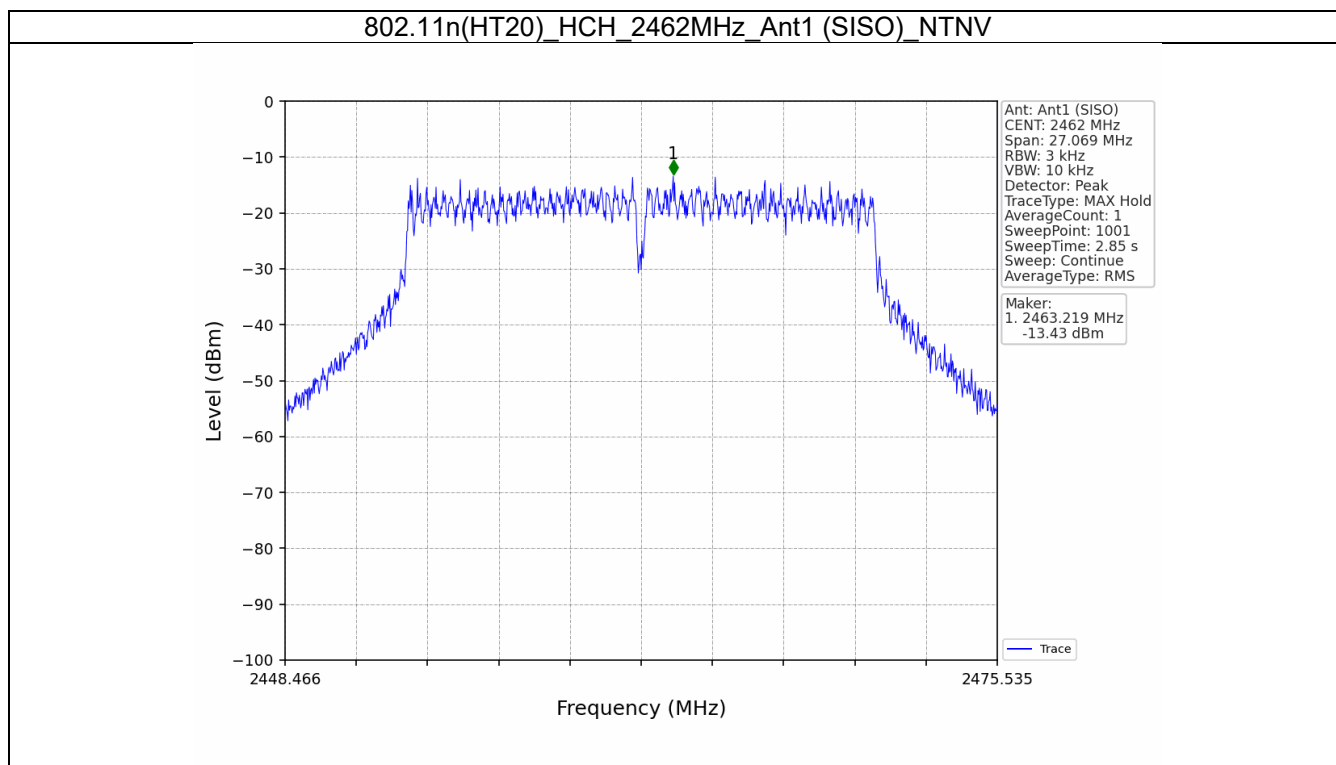
4.1.2 Test Graph











5. Unwanted Emissions In Non-restricted Frequency Bands

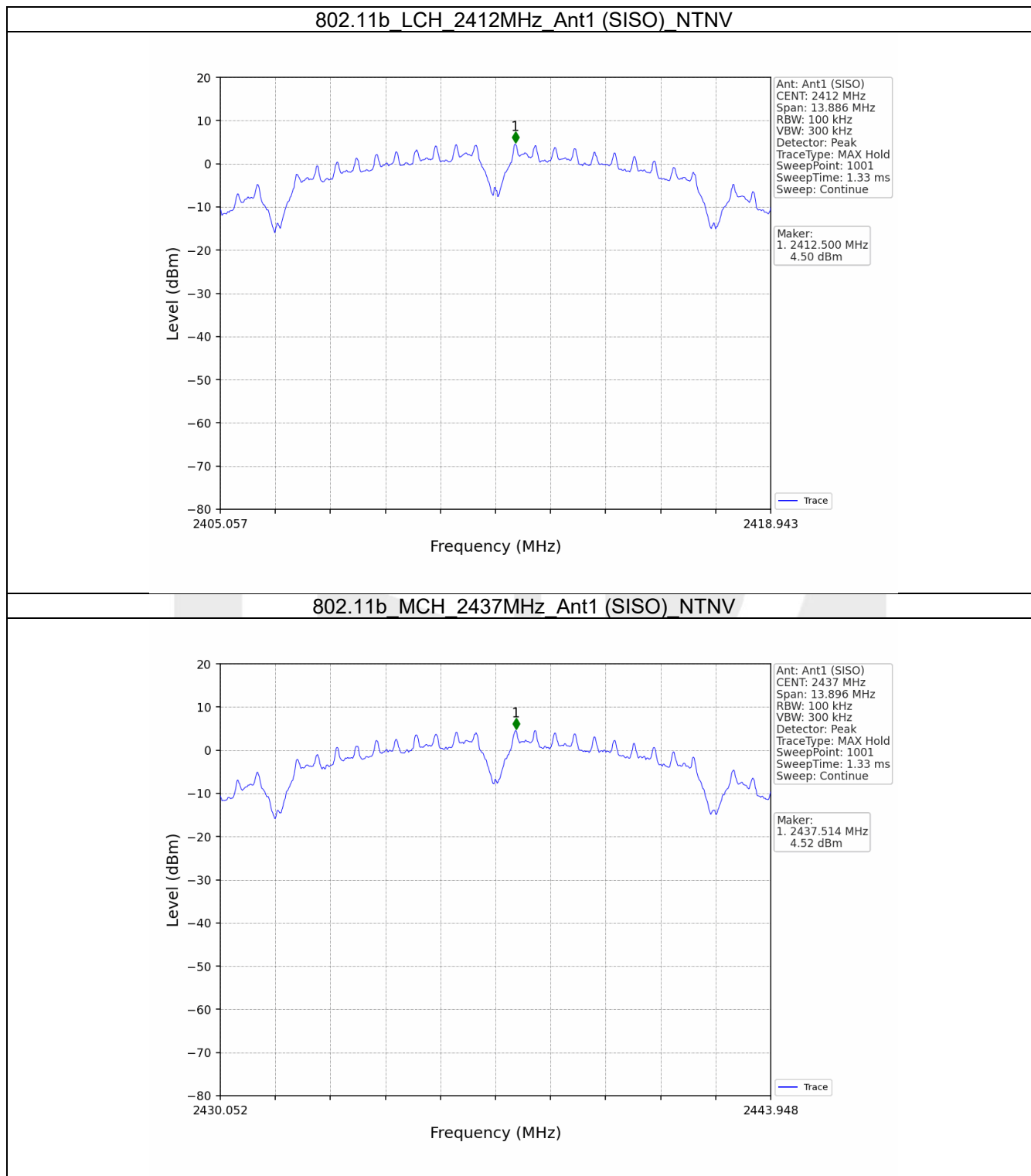
5.1 Ref

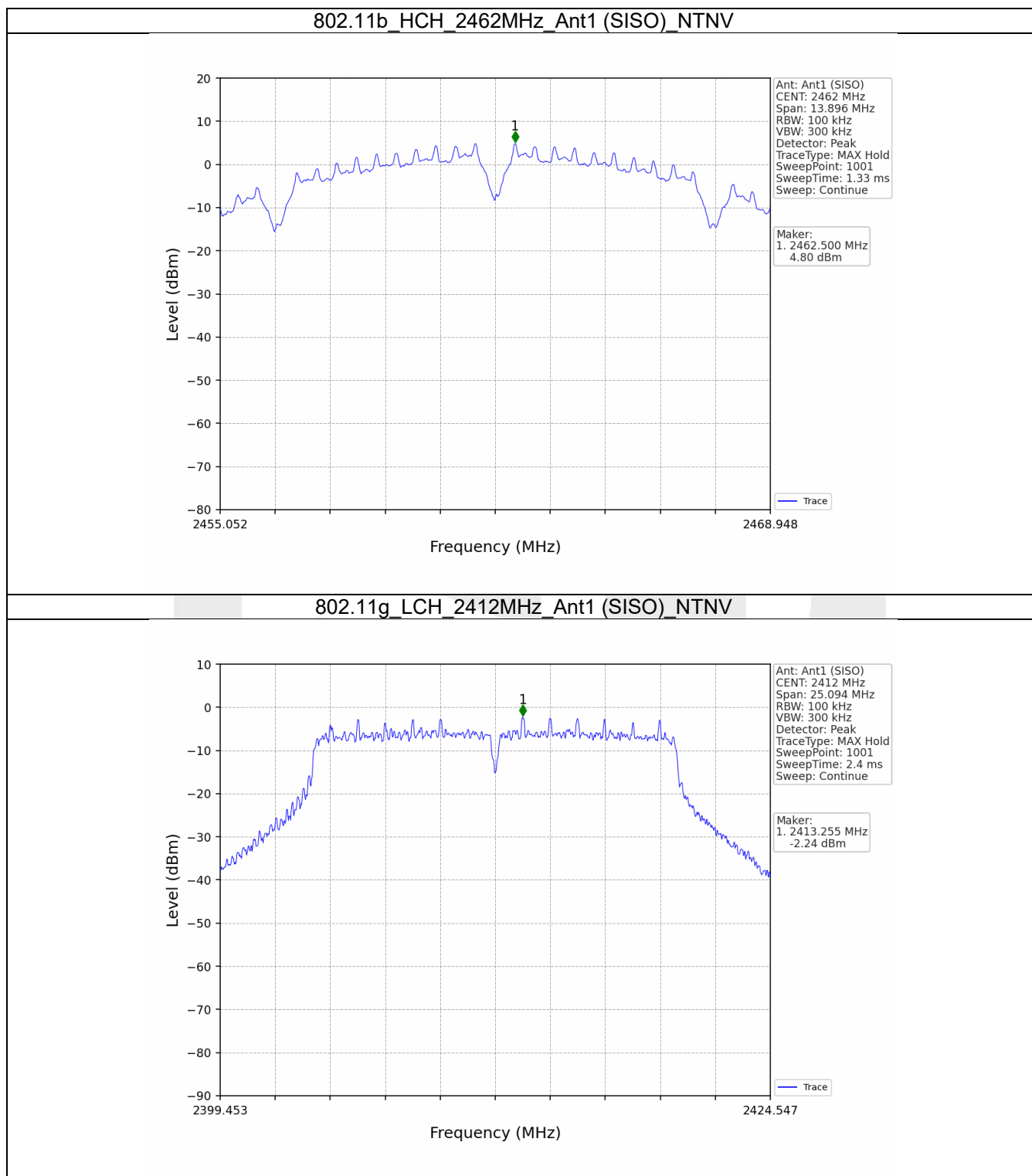
5.1.1 Test Result

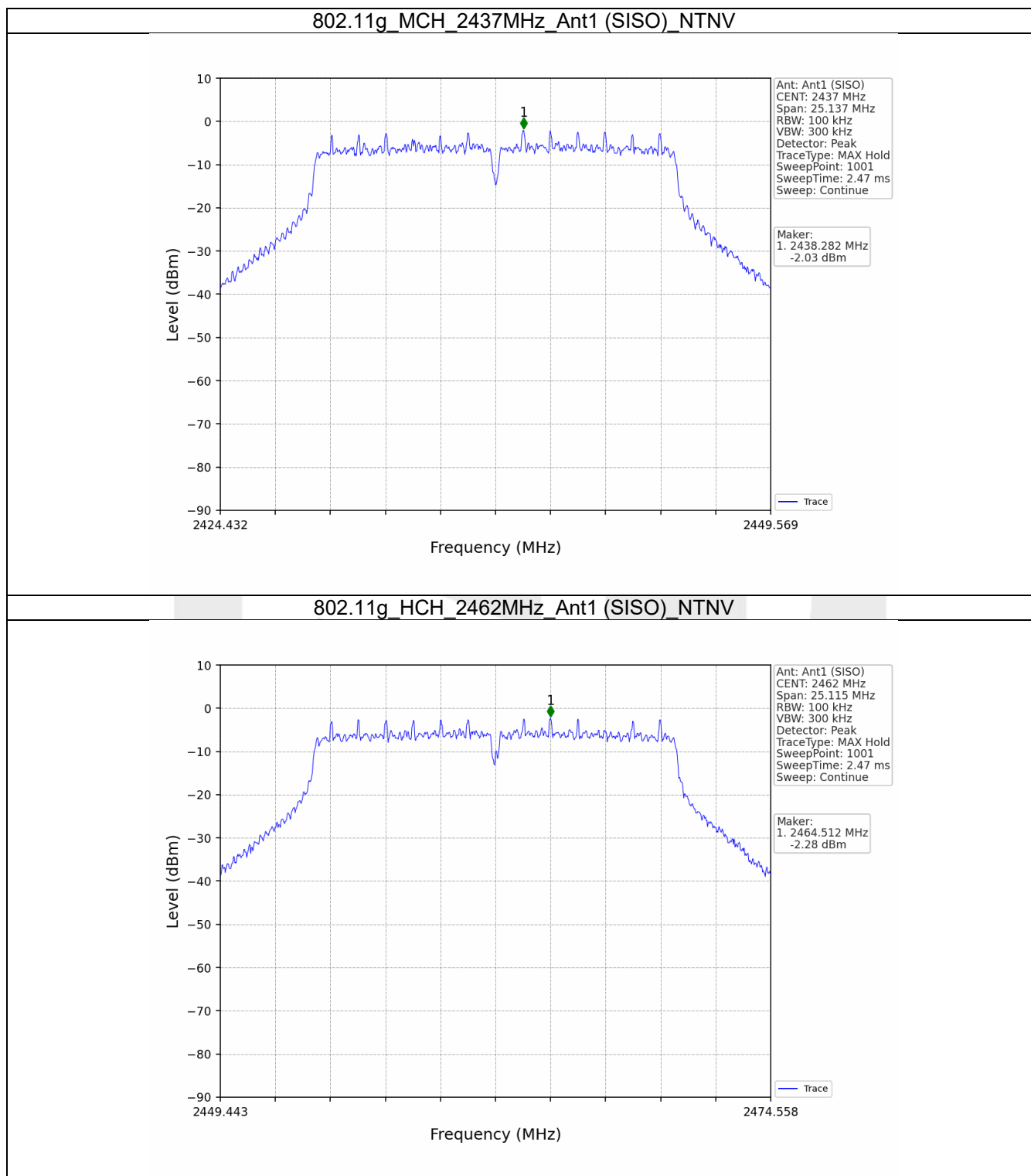
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	4.50
		2437	1	4.52
		2462	1	4.80
802.11g	SISO	2412	1	-2.24
		2437	1	-2.03
		2462	1	-2.28
802.11n (HT20)	SISO	2412	1	2.84
		2437	1	1.08
		2462	1	0.50

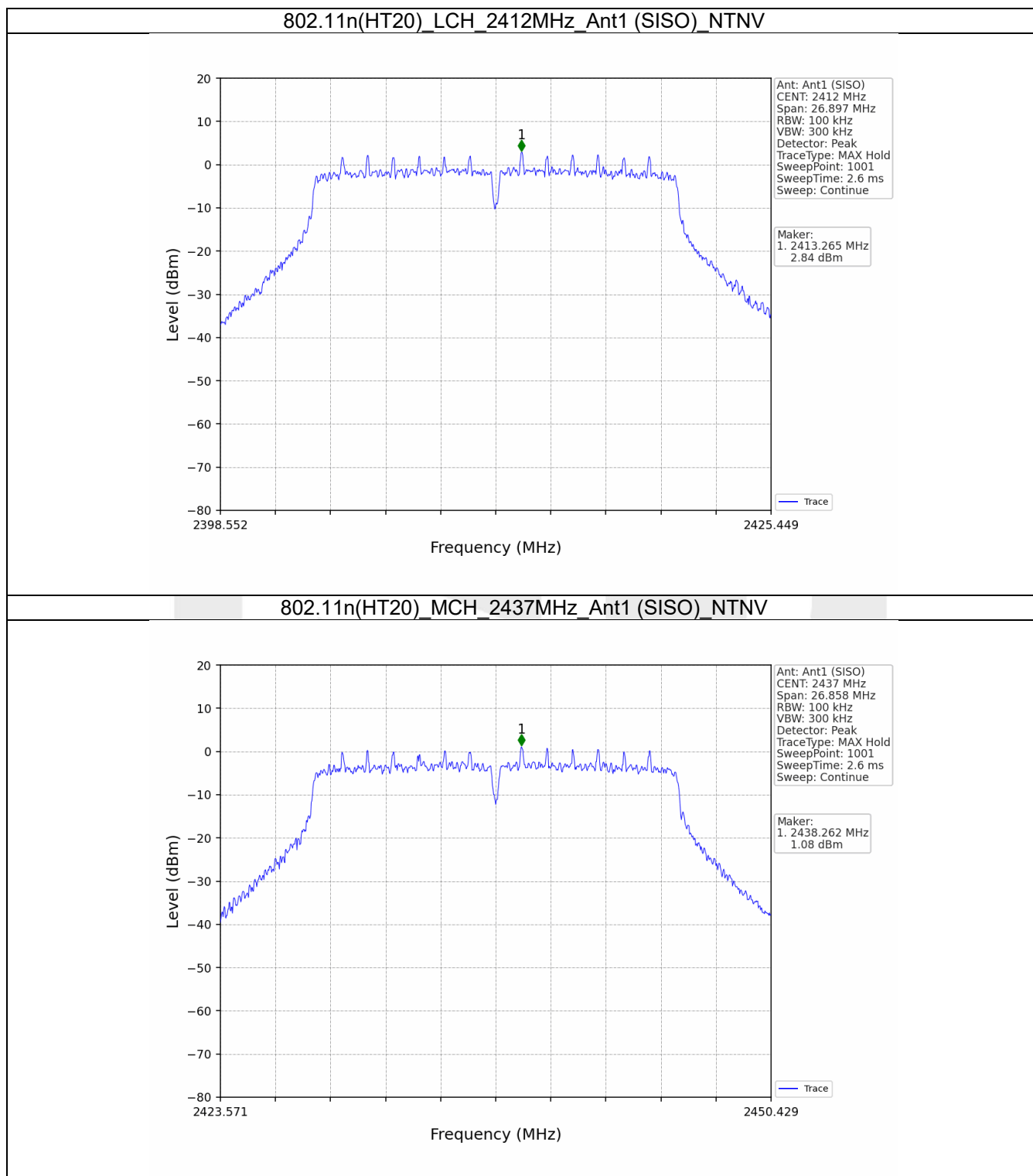
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

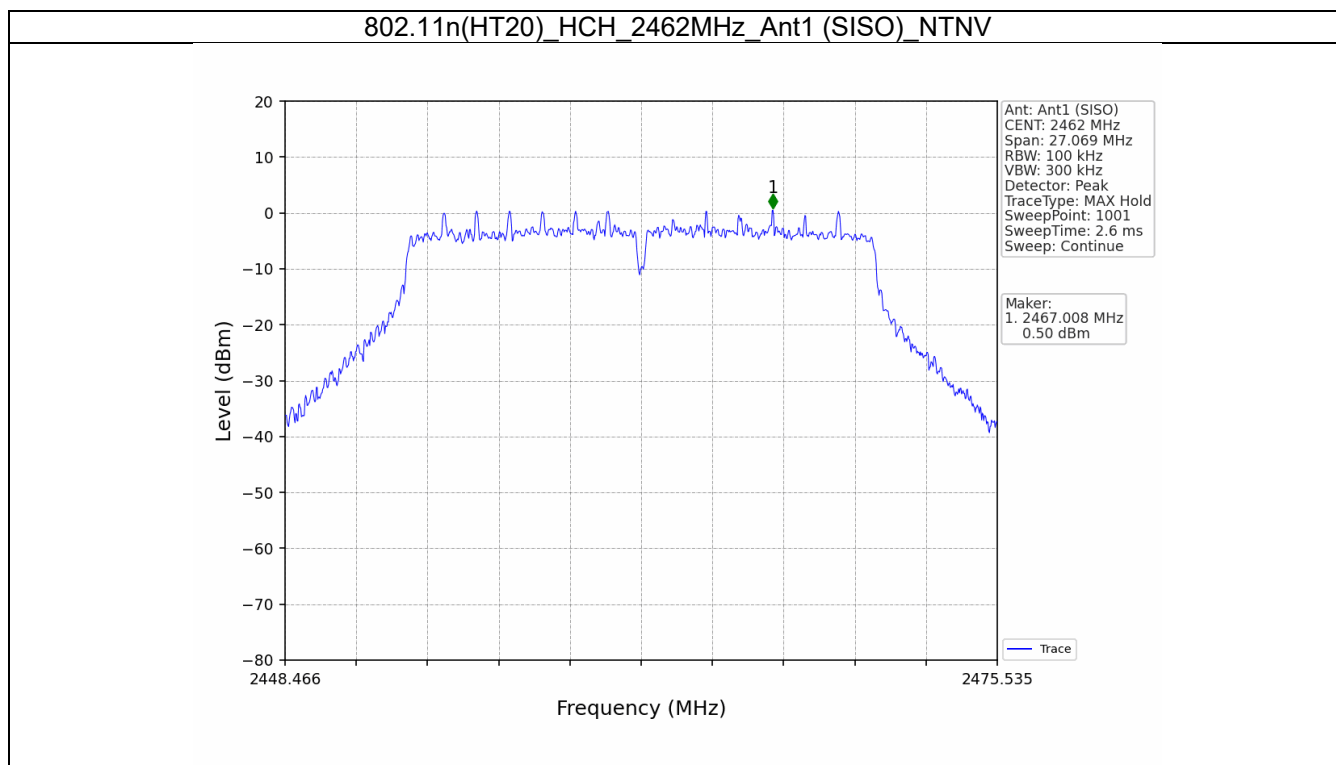
5.1.2 Test Graph









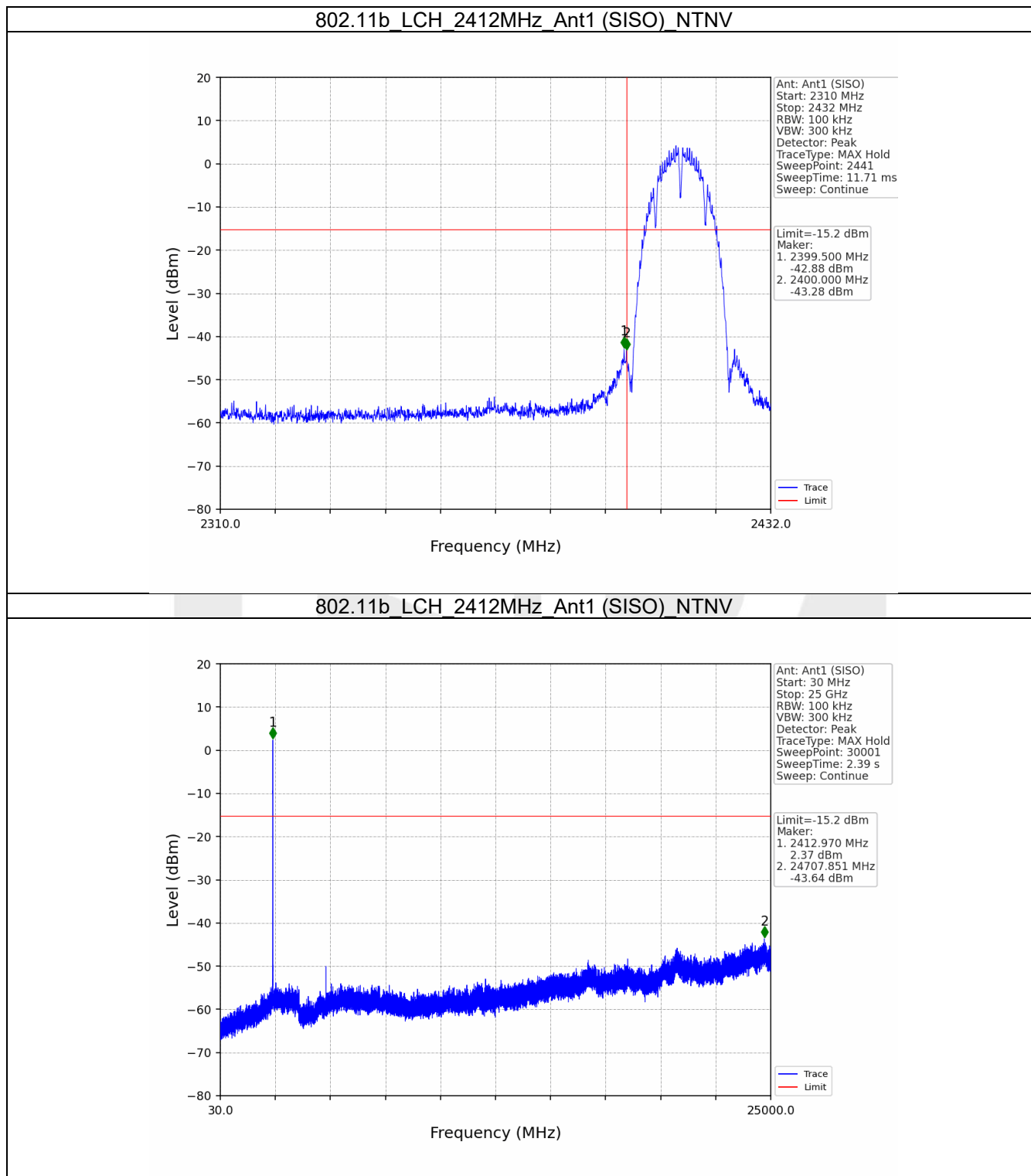


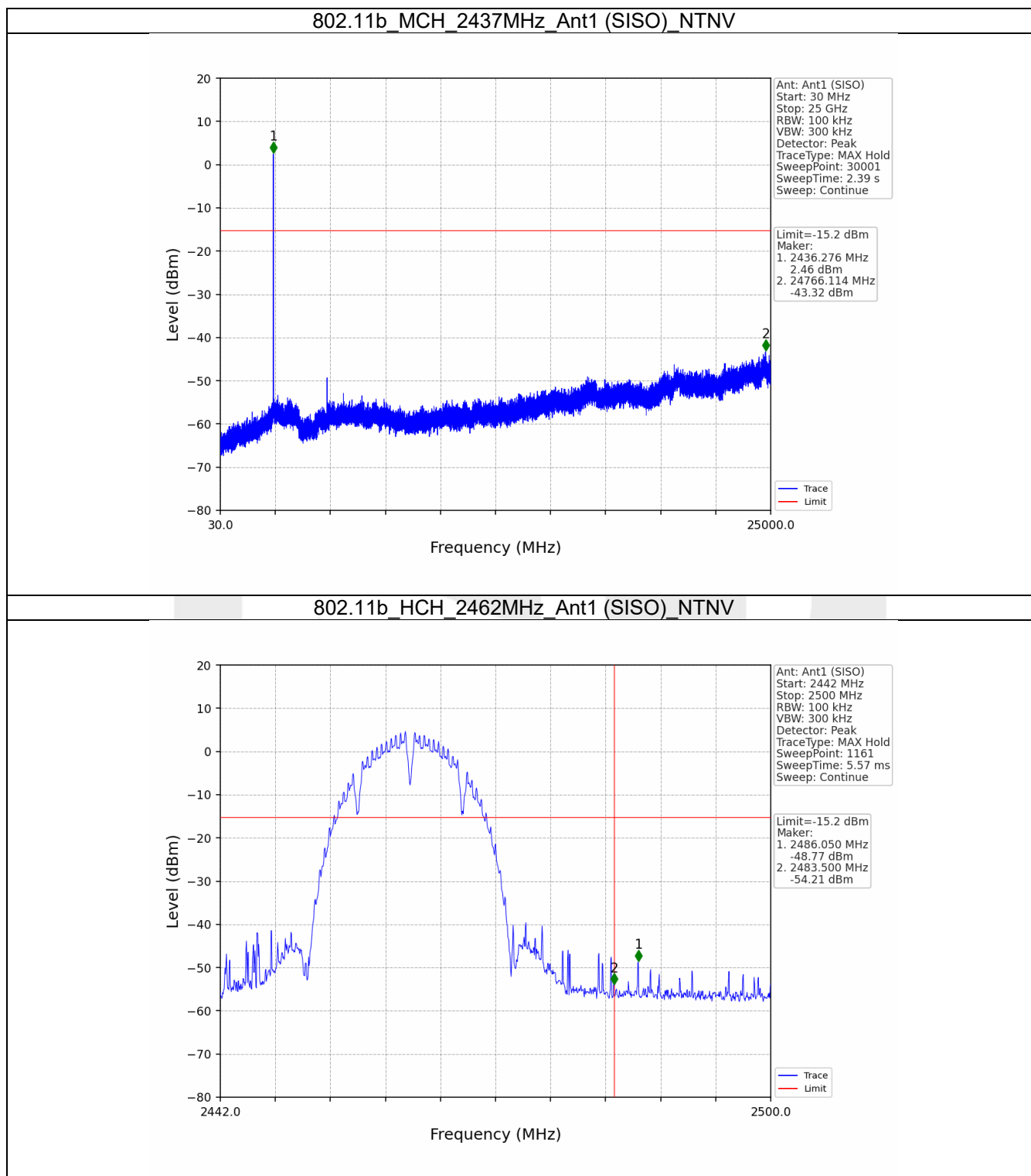
5.2 CSE

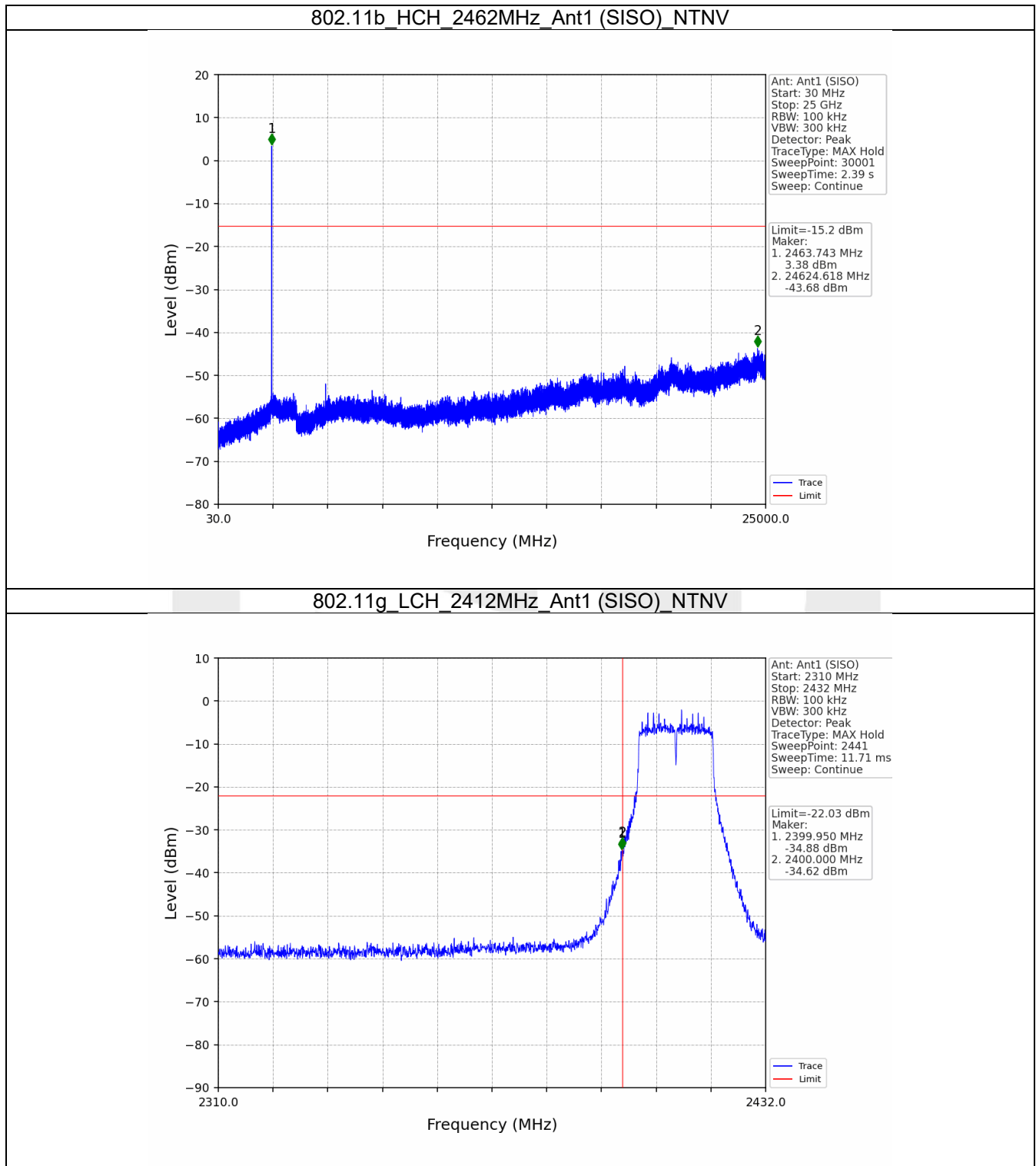
5.2.1 Test Result

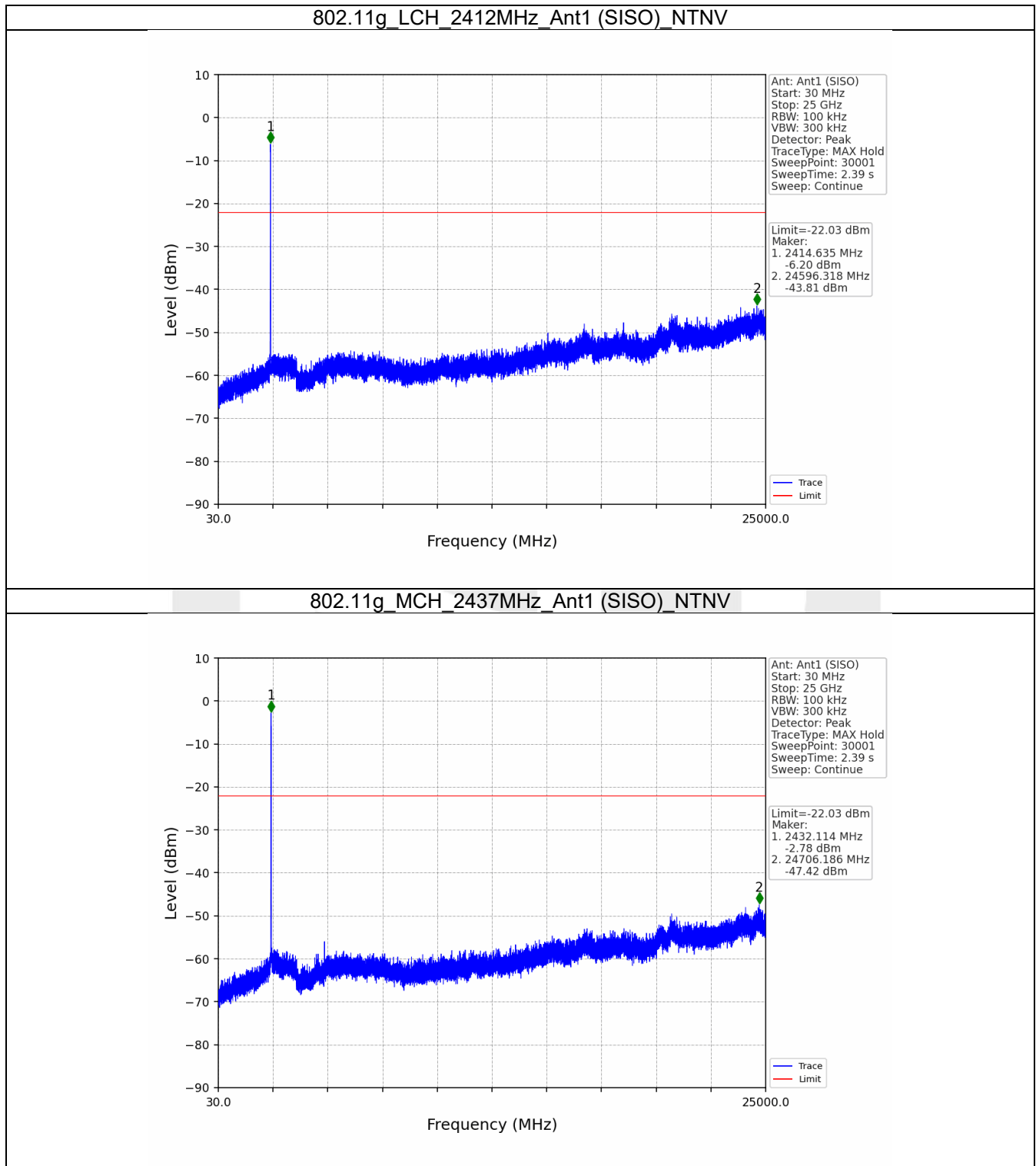
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.80	-15.20	Pass
		2437	1	4.80	-15.20	Pass
		2462	1	4.80	-15.20	Pass
802.11g	SISO	2412	1	-2.03	-22.03	Pass
		2437	1	-2.03	-22.03	Pass
		2462	1	-2.03	-22.03	Pass
802.11n (HT20)	SISO	2412	1	2.84	-17.16	Pass
		2437	1	2.84	-17.16	Pass
		2462	1	2.84	-17.16	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.						

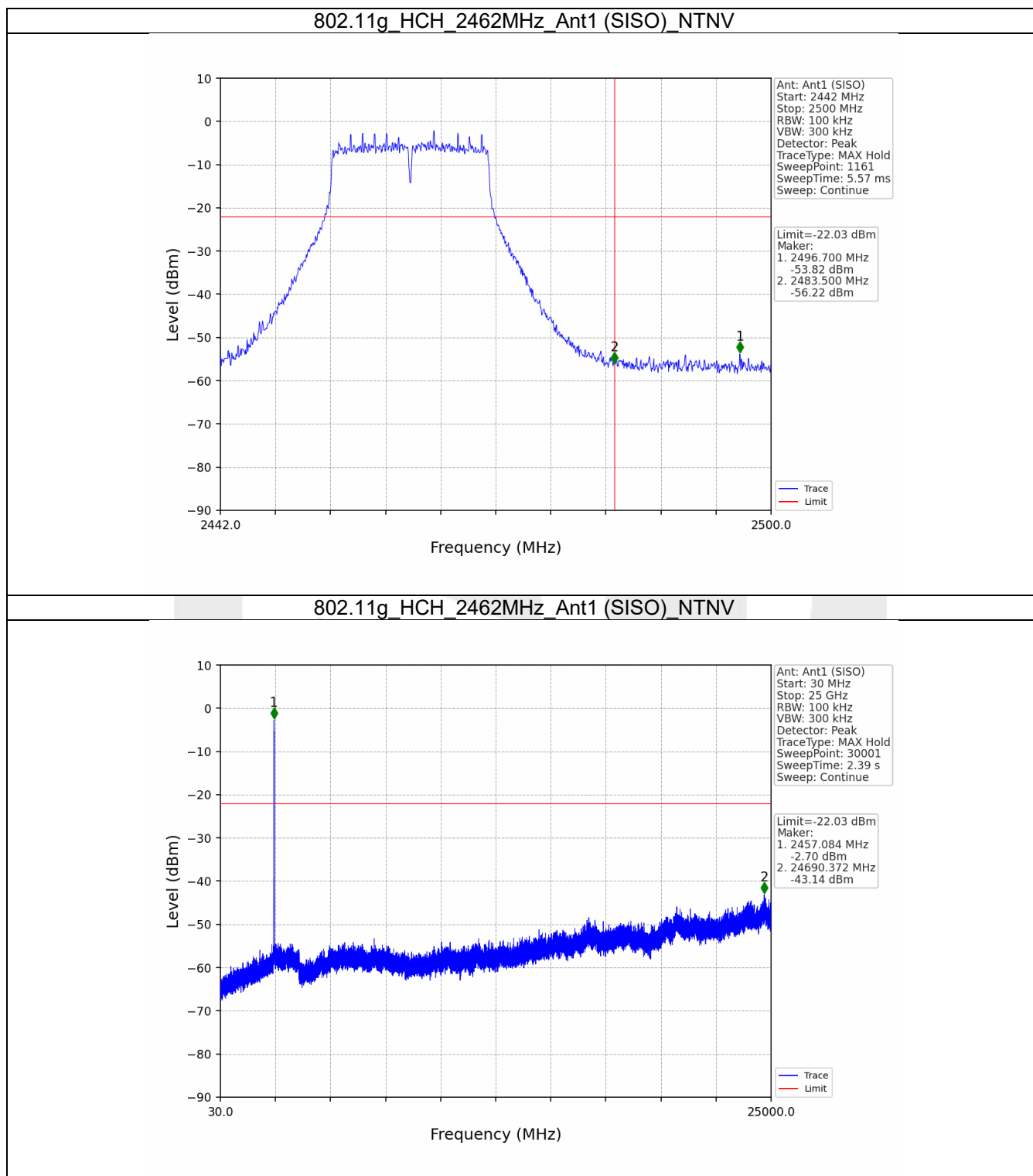
5.2.2 Test Graph

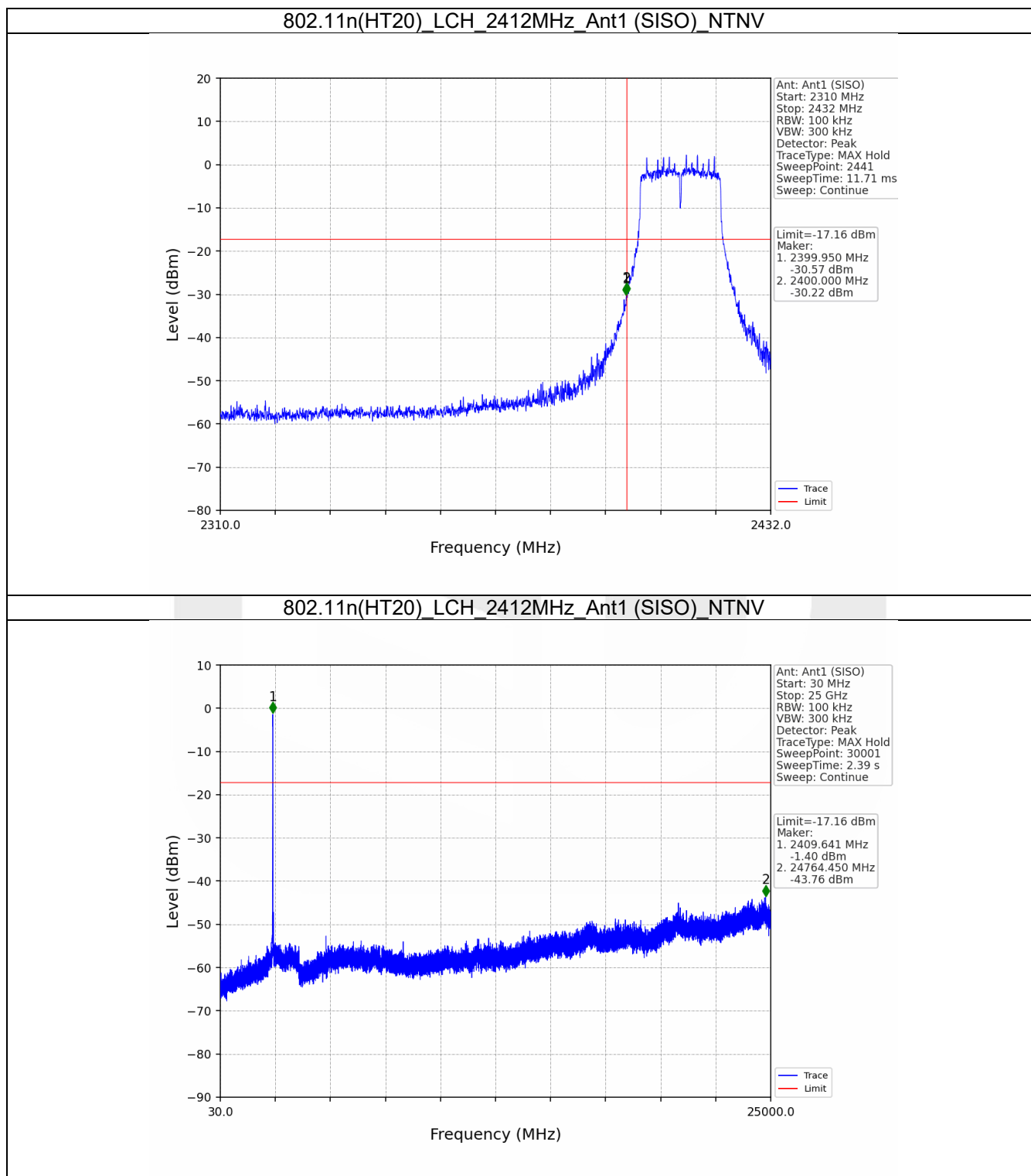


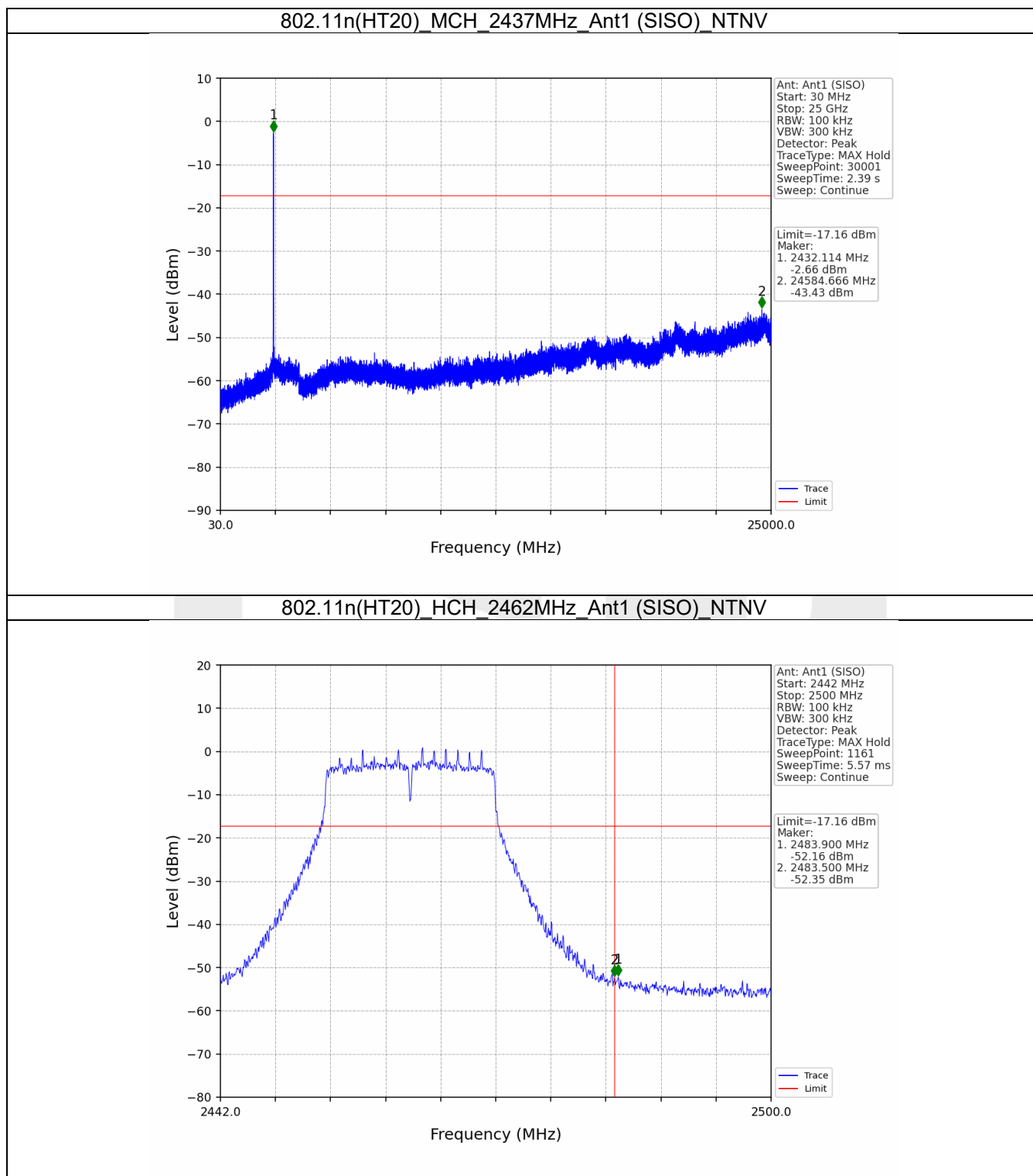


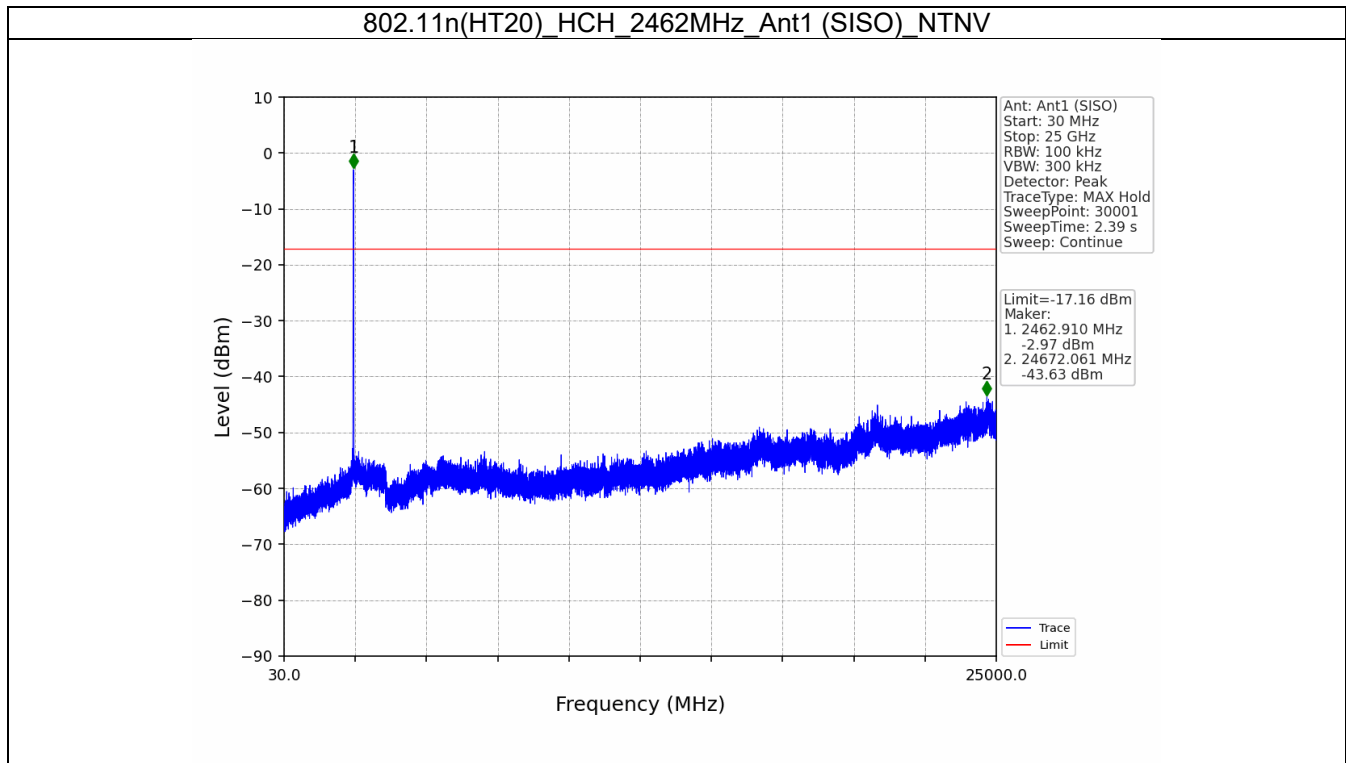












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