

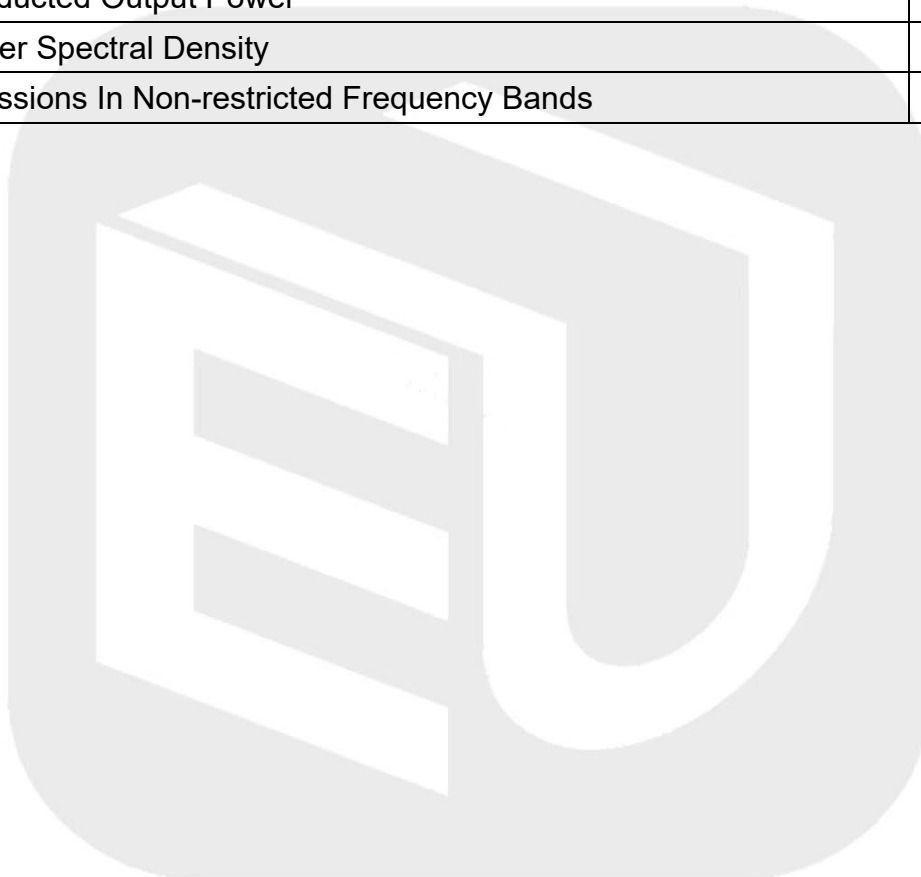
ANNEX D TEST DATA

For

Project No.:	8135EU012710W
Client:	Shenzhen Qianyan Technology LTD
Product Name:	Govee Strip Light S
Model No.:	H612E
FCC ID:	2A7VD-H612E
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-01-19

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



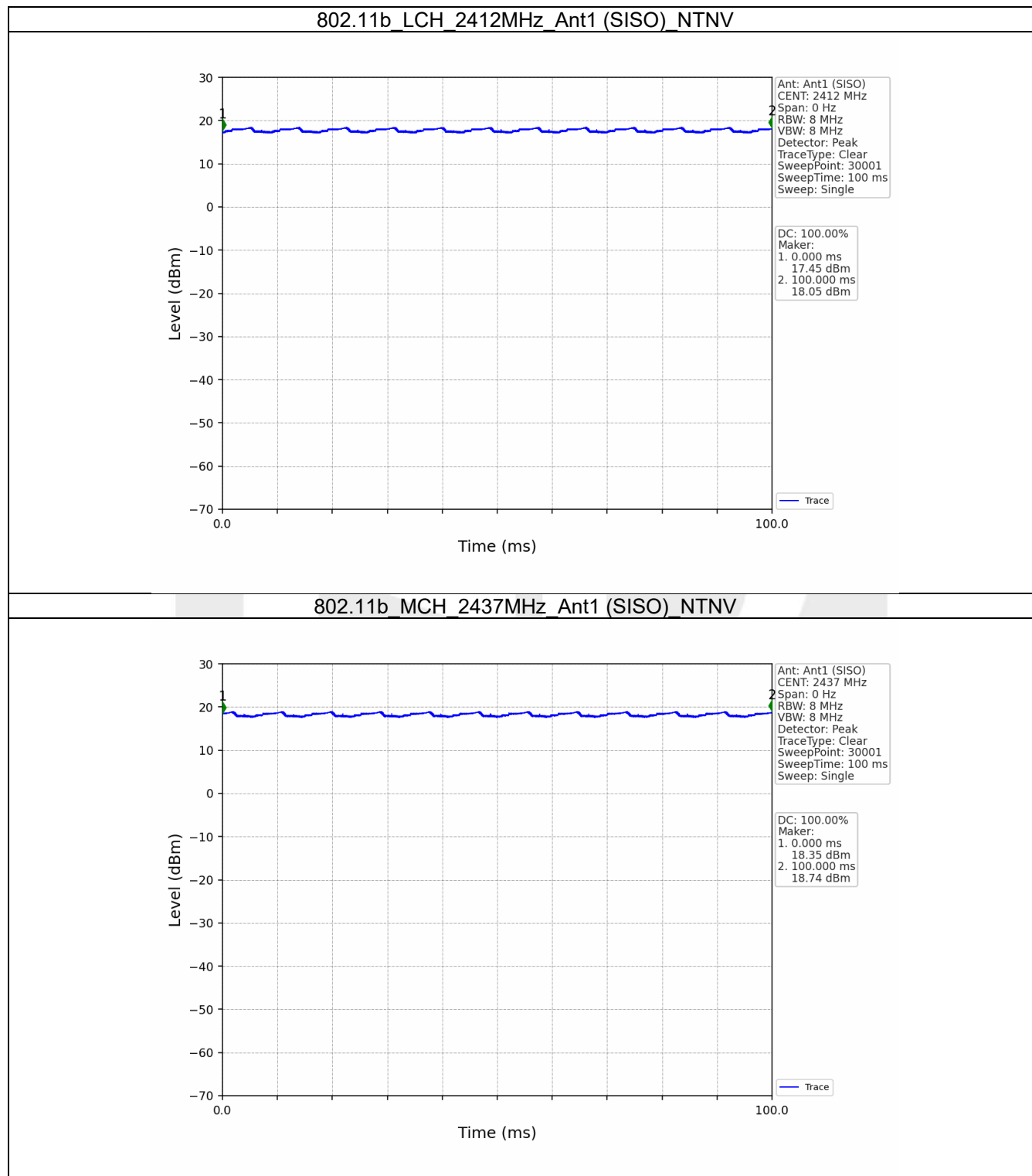
1. Duty Cycle

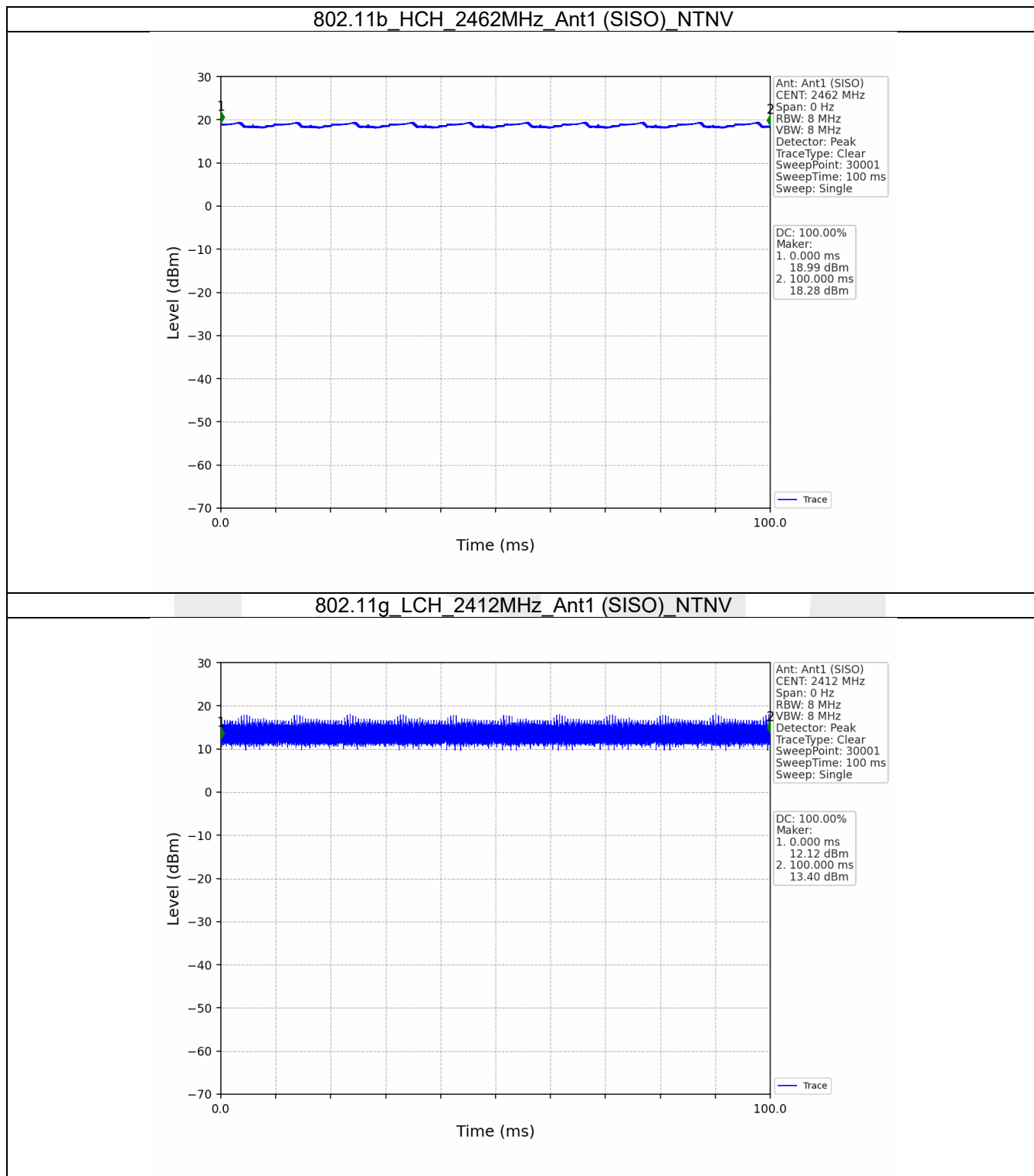
1.1 Ant1

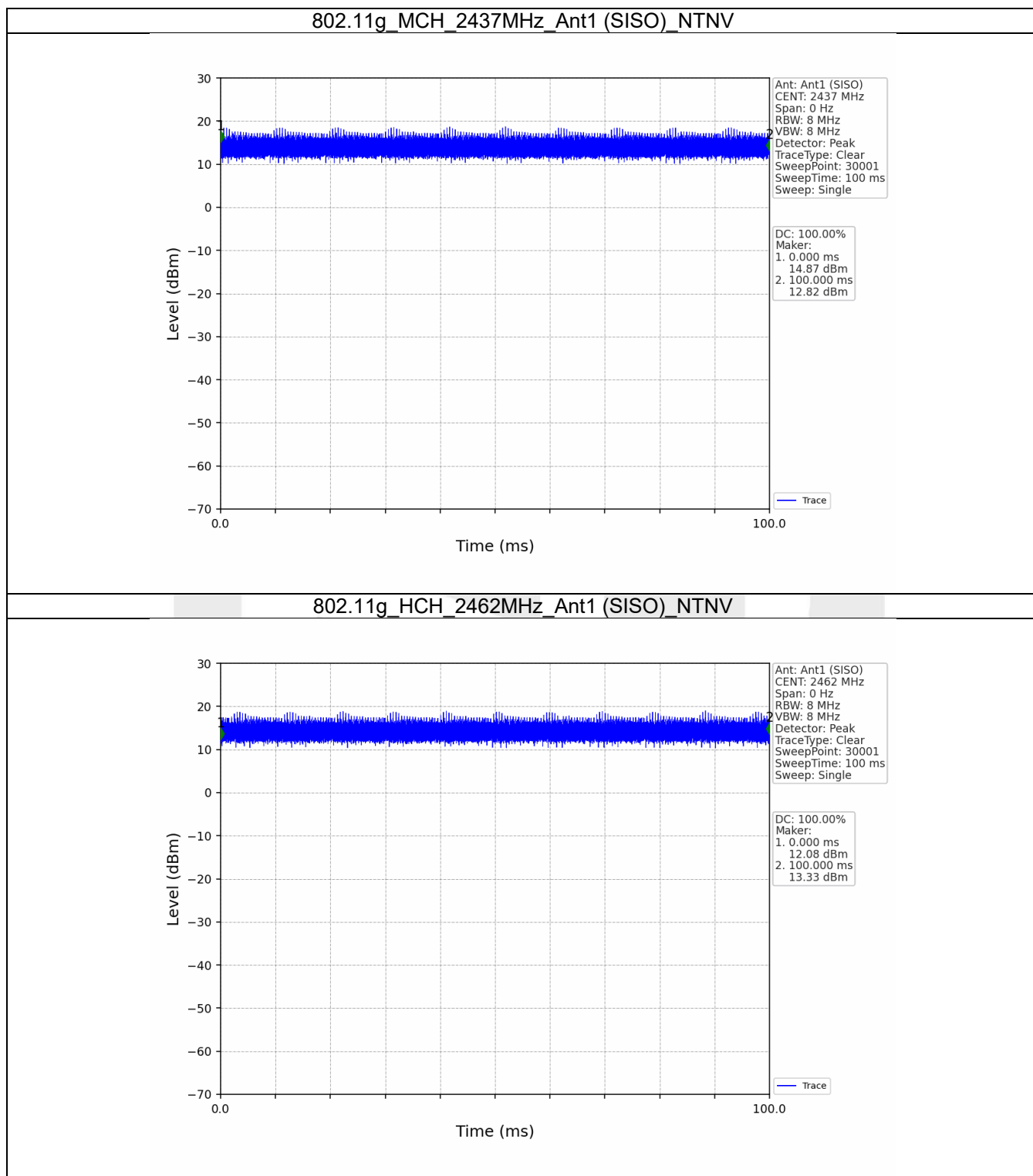
1.1.1 Test Result

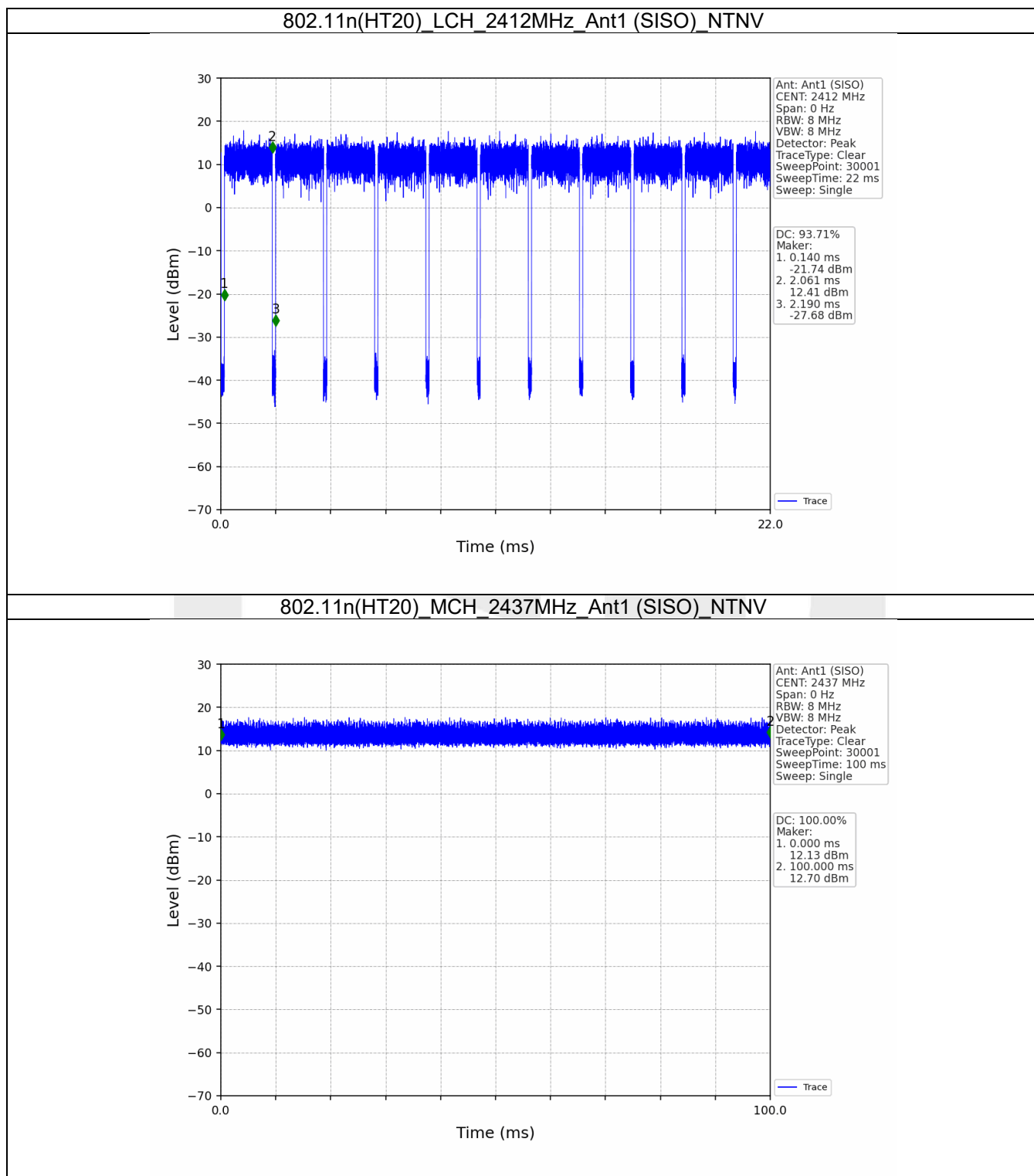
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	1.921	2.050	93.71	0.28	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00

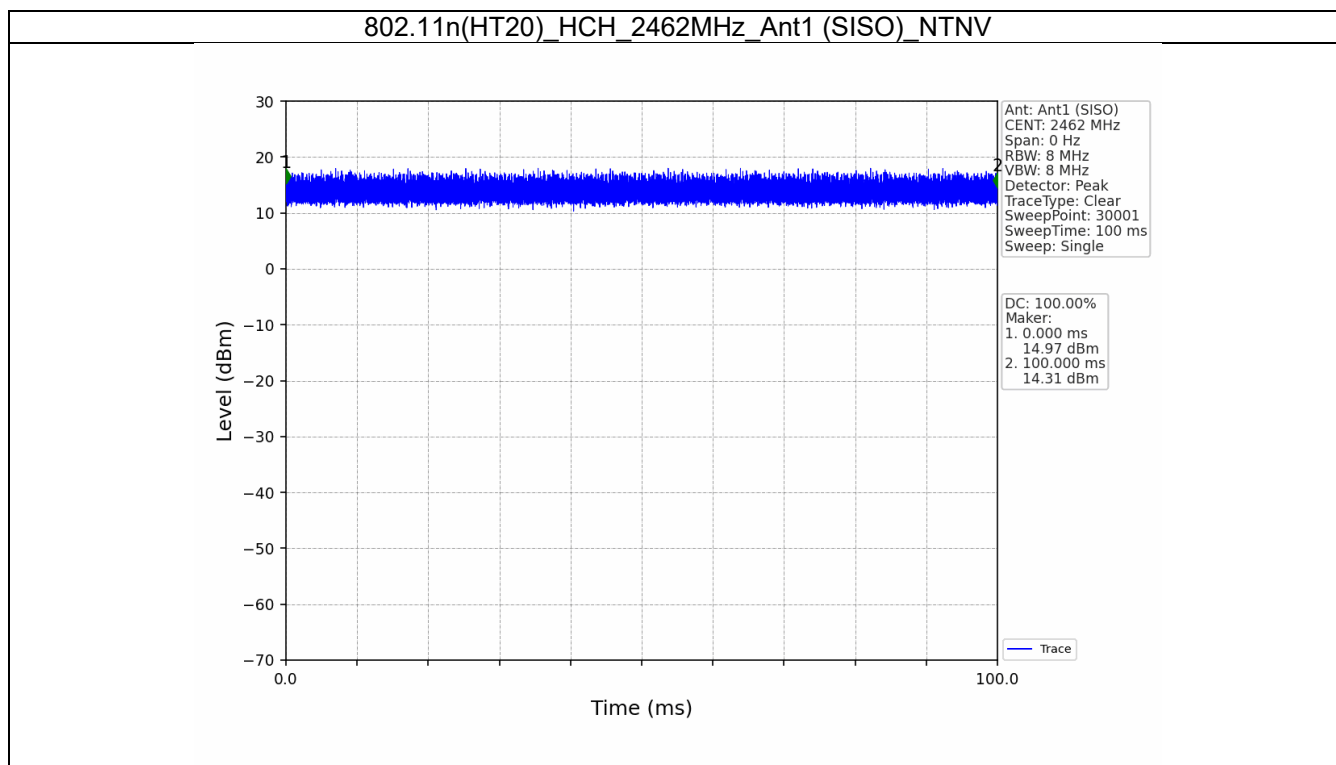
1.1.2 Test Graph











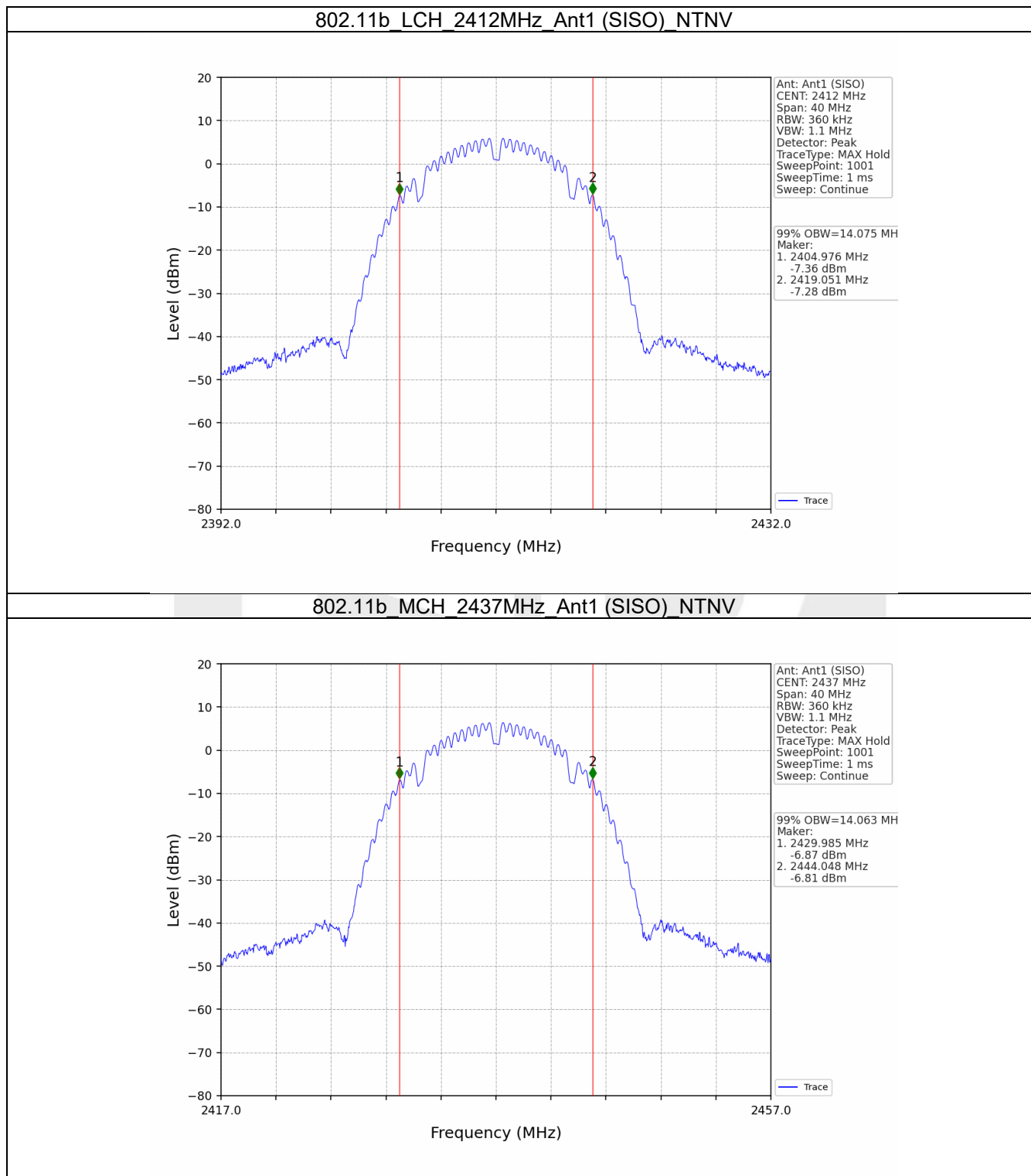
2. Bandwidth

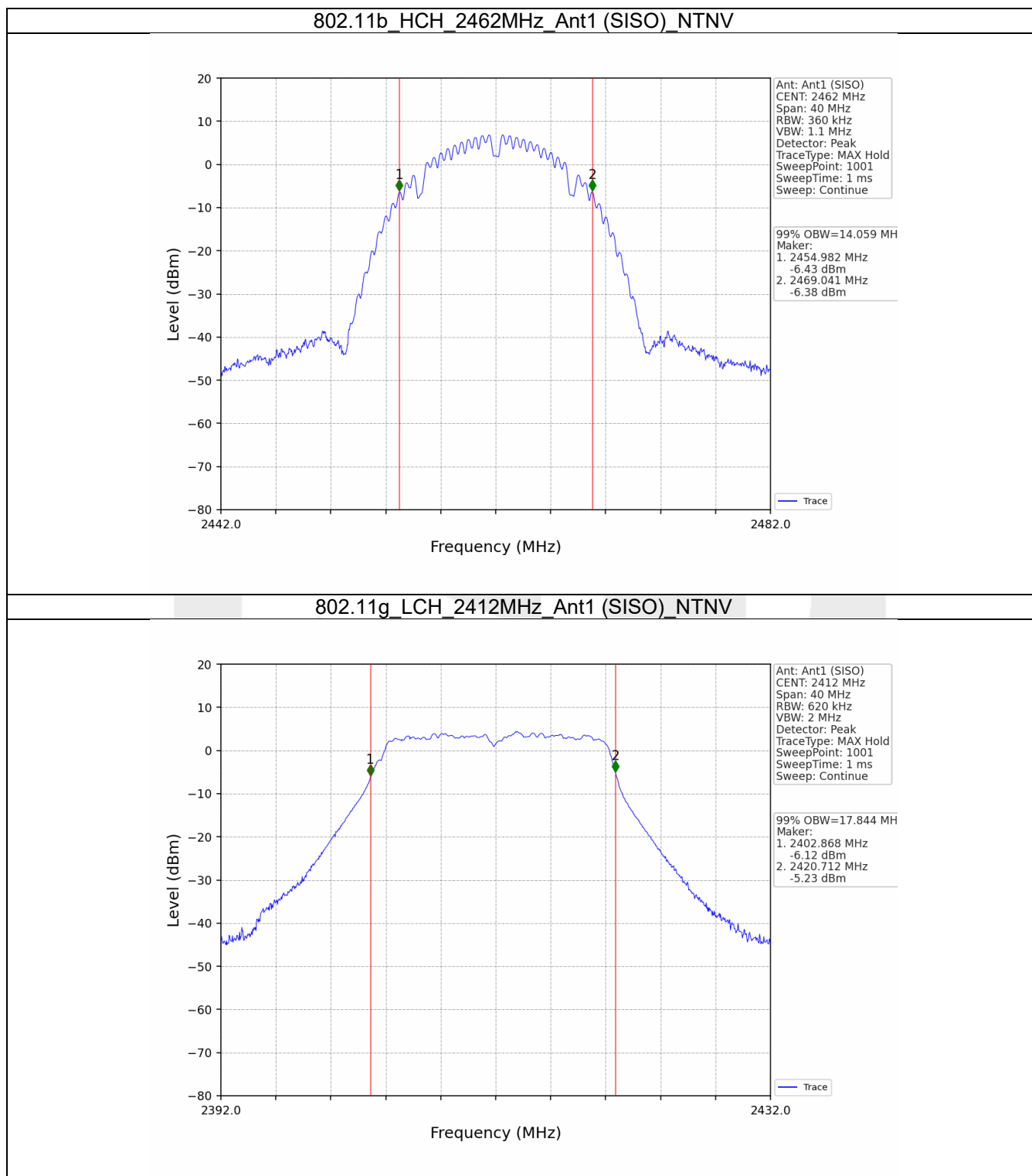
2.1 OBW

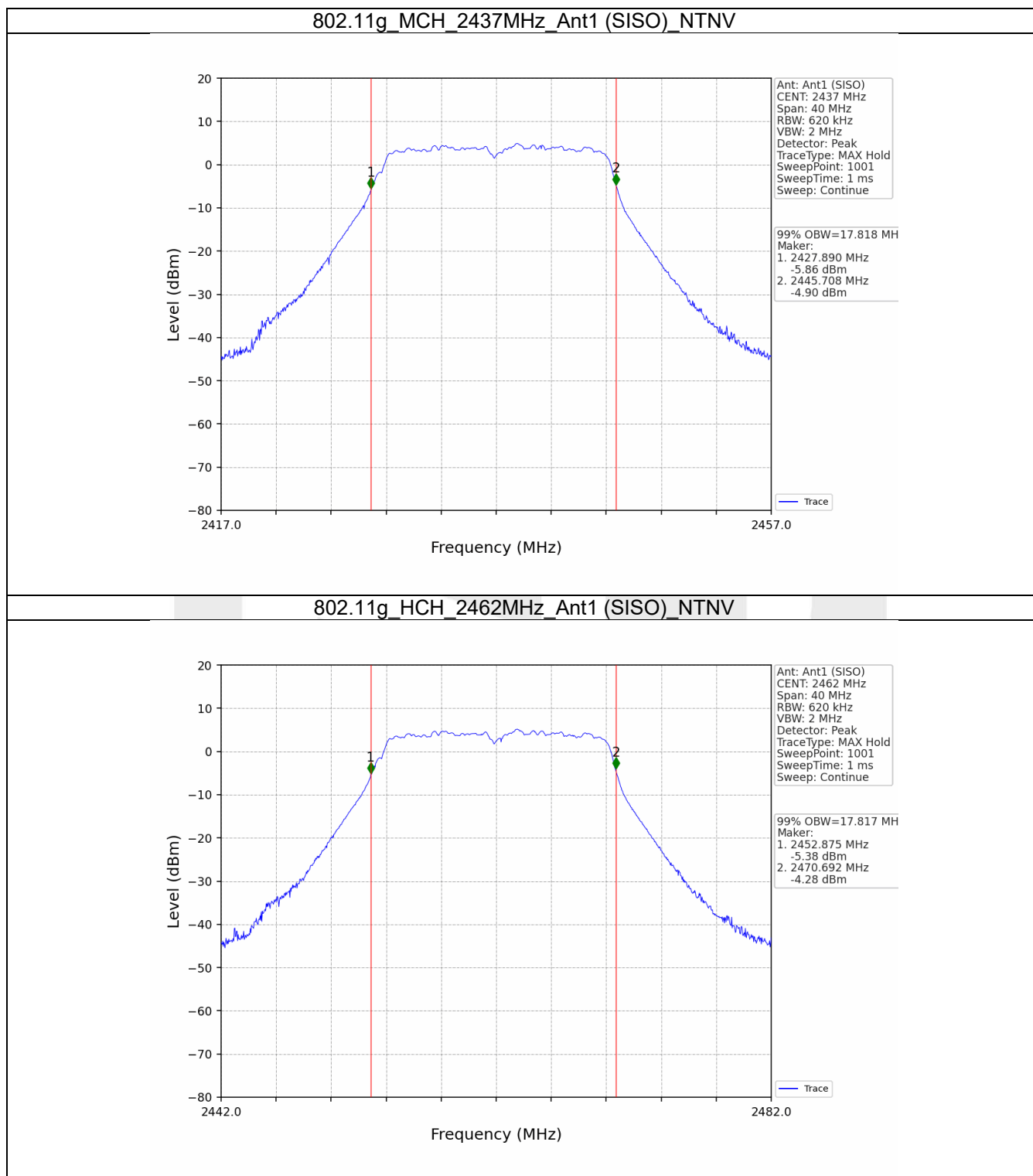
2.1.1 Test Result

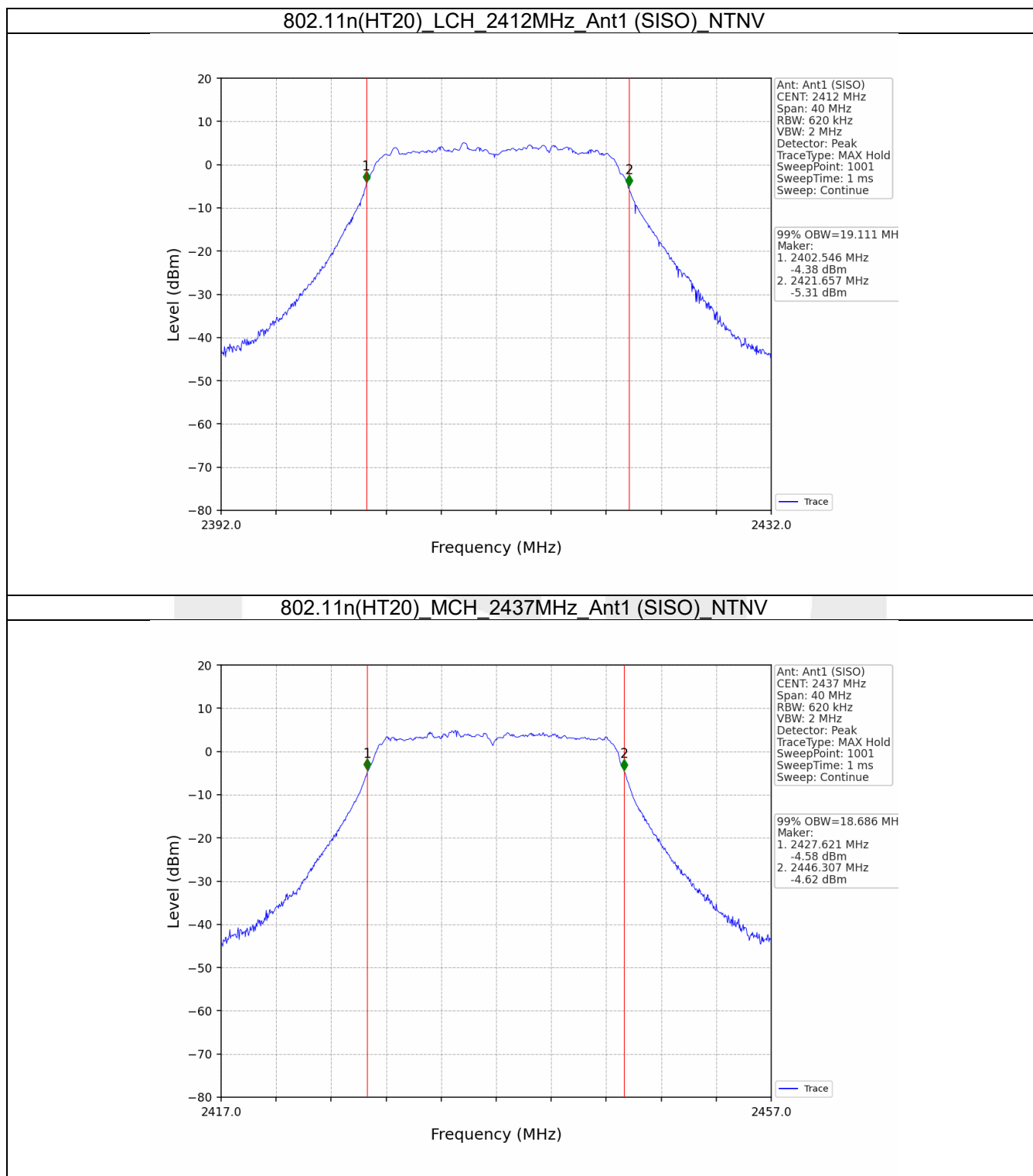
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.075	Pass
		2437	1	14.063	Pass
		2462	1	14.059	Pass
802.11g	SISO	2412	1	17.844	Pass
		2437	1	17.818	Pass
		2462	1	17.817	Pass
802.11n (HT20)	SISO	2412	1	19.111	Pass
		2437	1	18.686	Pass
		2462	1	18.667	Pass

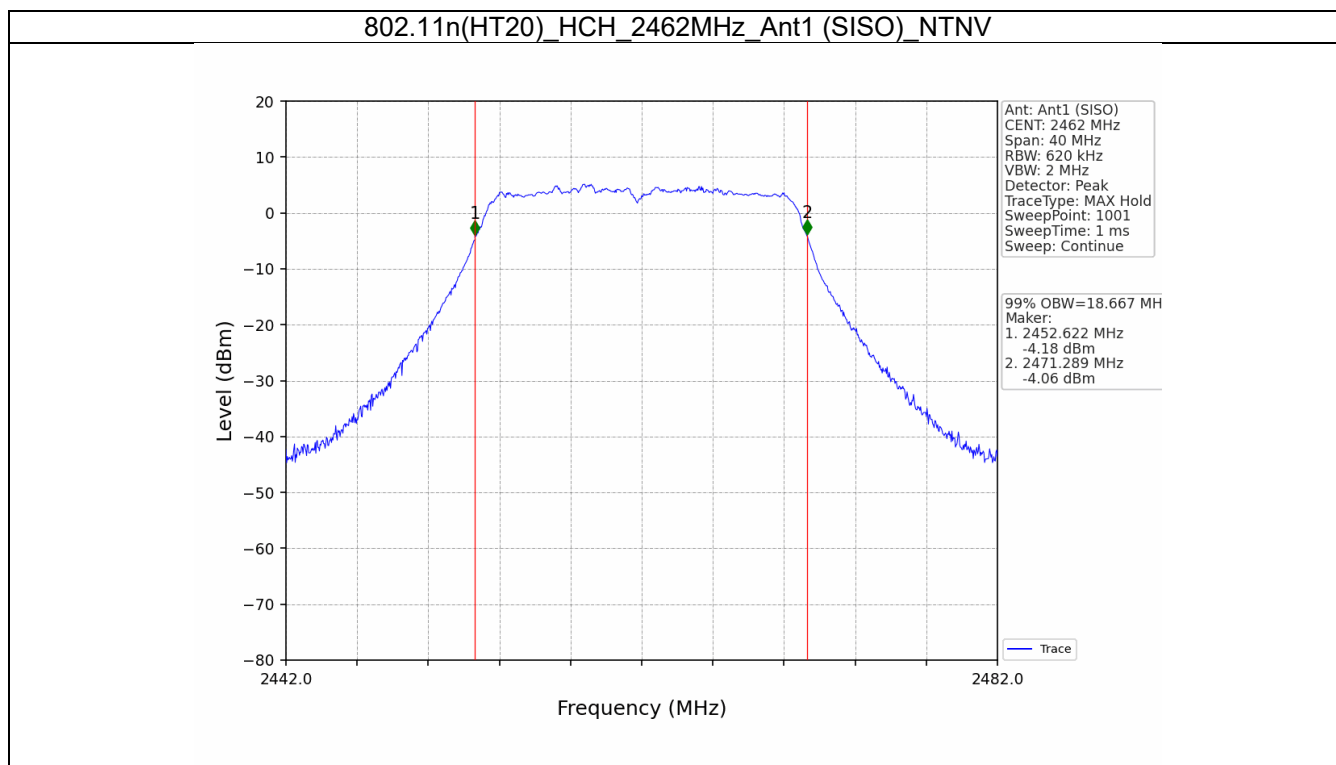
2.1.2 Test Graph









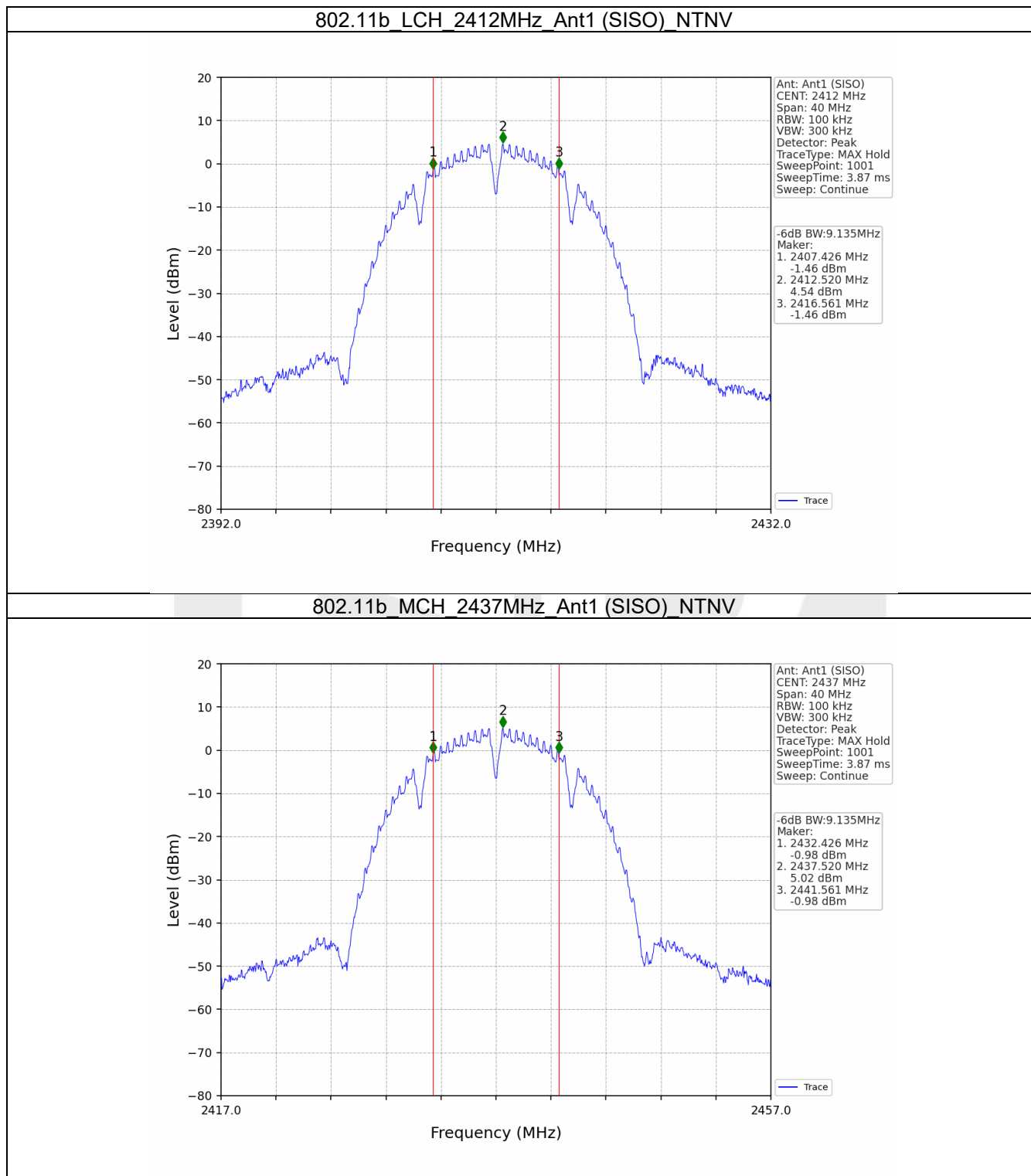


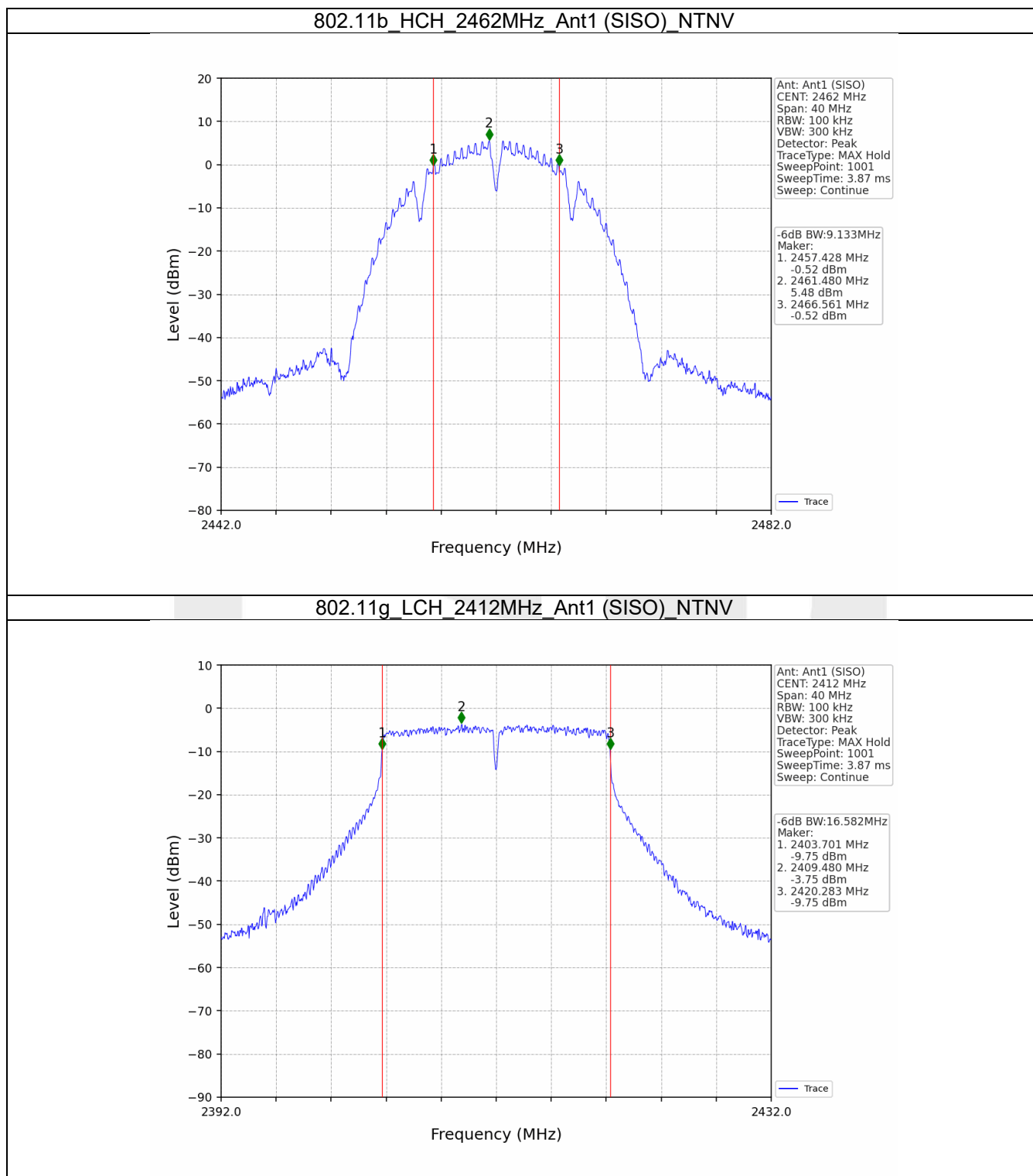
2.2 6dB BW

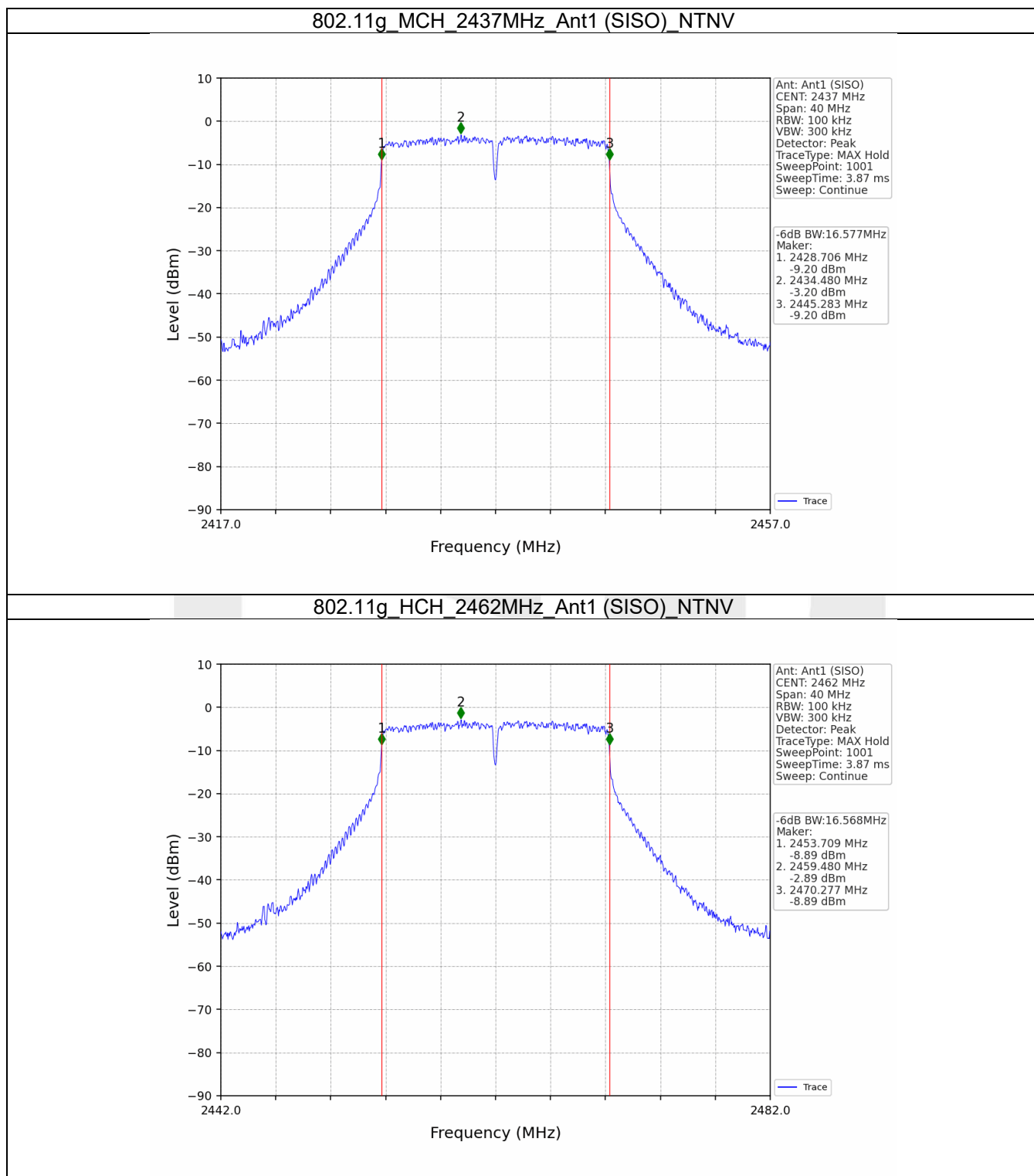
2.2.1 Test Result

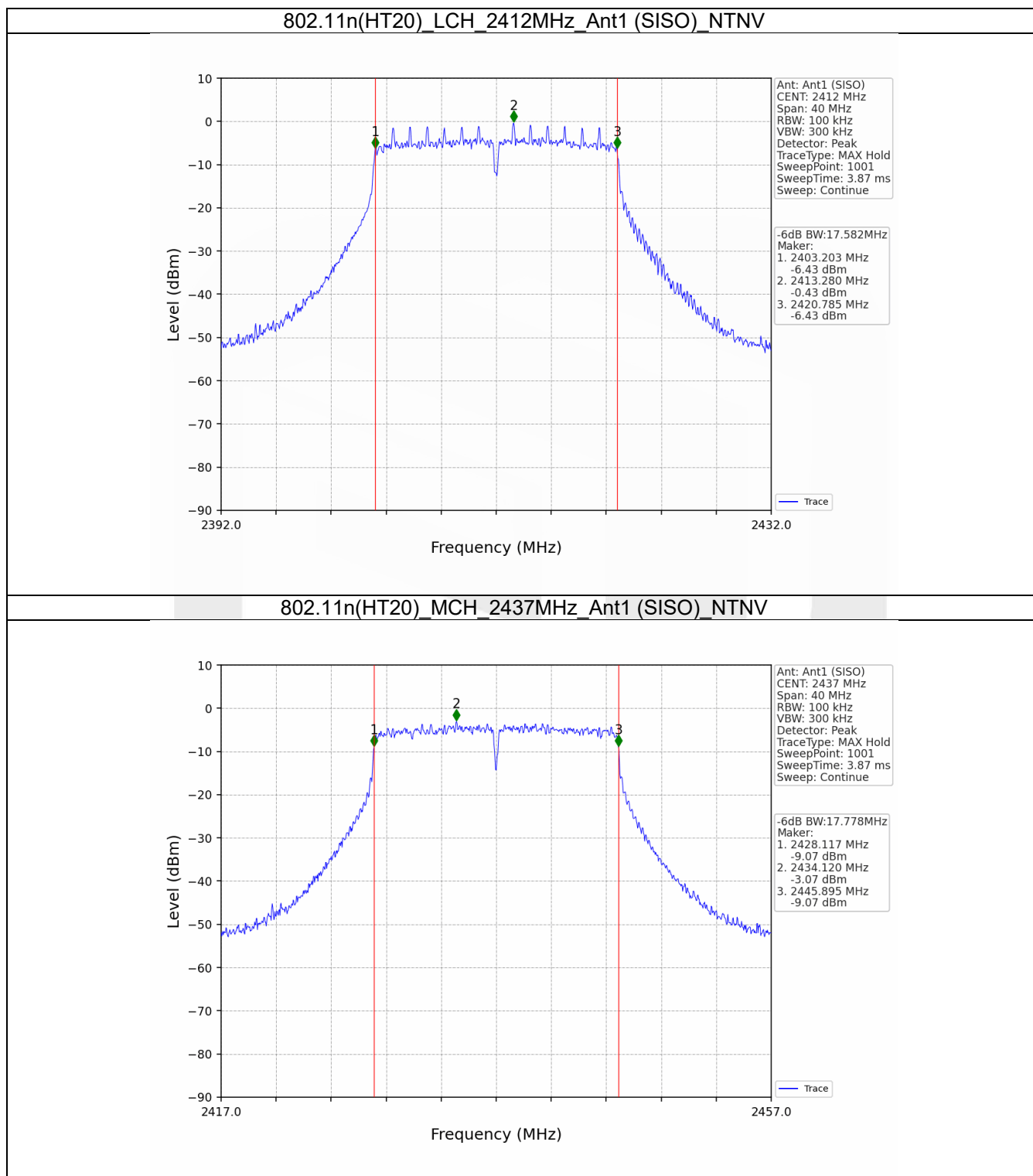
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.135	≥ 0.5	Pass
		2437	1	9.135	≥ 0.5	Pass
		2462	1	9.133	≥ 0.5	Pass
802.11g	SISO	2412	1	16.582	≥ 0.5	Pass
		2437	1	16.577	≥ 0.5	Pass
		2462	1	16.568	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.582	≥ 0.5	Pass
		2437	1	17.778	≥ 0.5	Pass
		2462	1	17.792	≥ 0.5	Pass

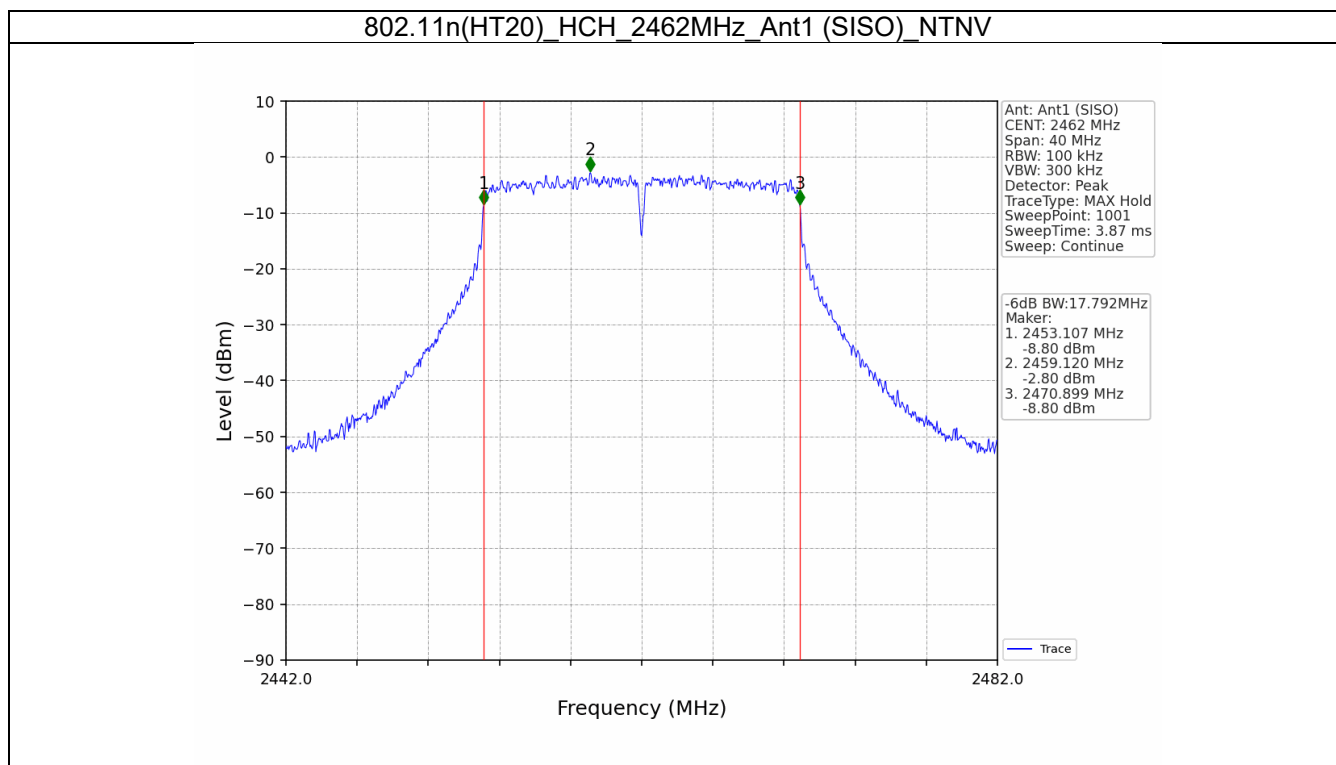
2.2.2 Test Graph











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	16.62	<=30	Pass
		2437	17.11	<=30	Pass
		2462	17.49	<=30	Pass
802.11g	SISO	2412	18.08	<=30	Pass
		2437	18.56	<=30	Pass
		2462	18.86	<=30	Pass
802.11n (HT20)	SISO	2412	18.11	<=30	Pass
		2437	18.61	<=30	Pass
		2462	18.92	<=30	Pass

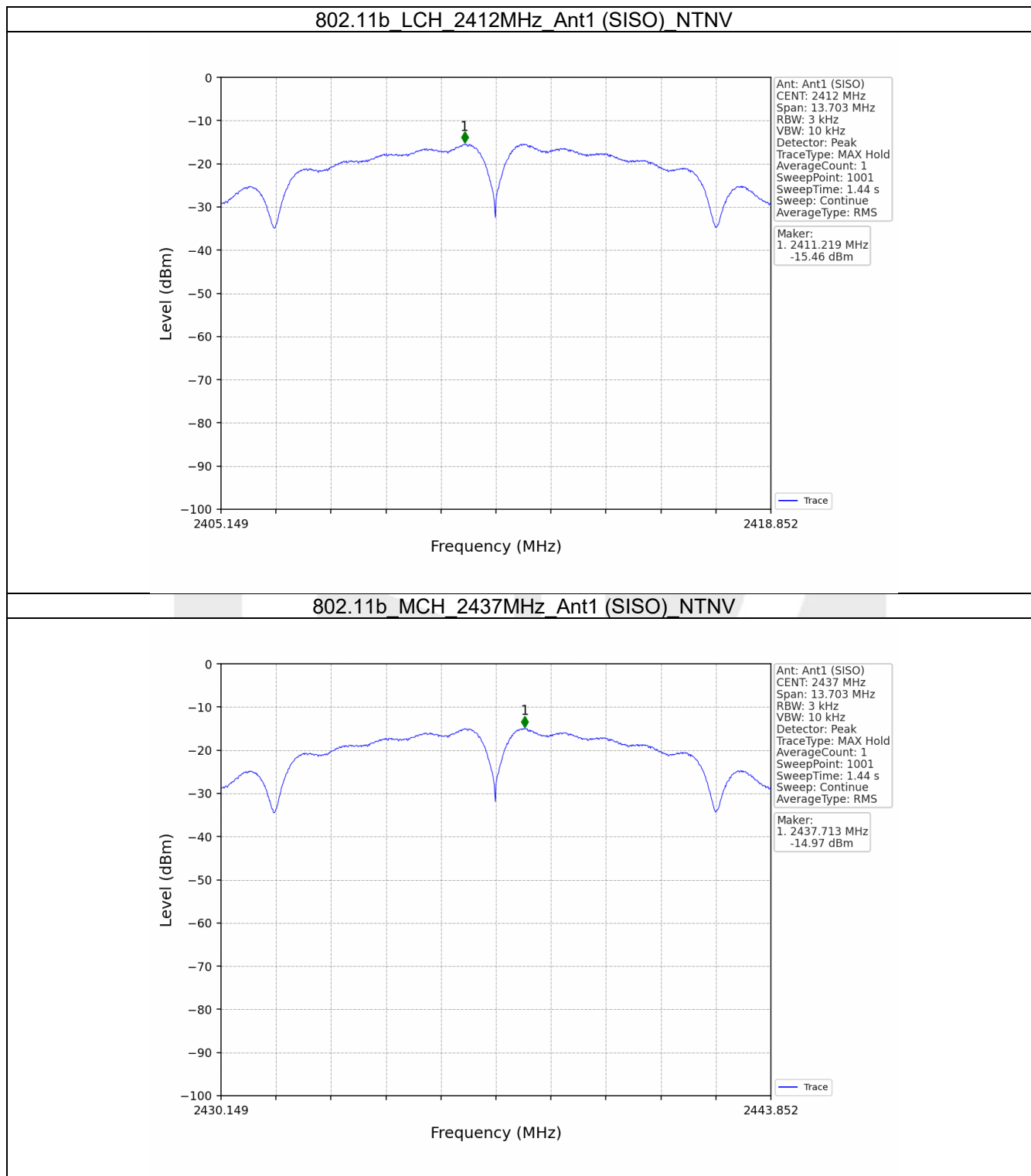
4. Maximum Power Spectral Density

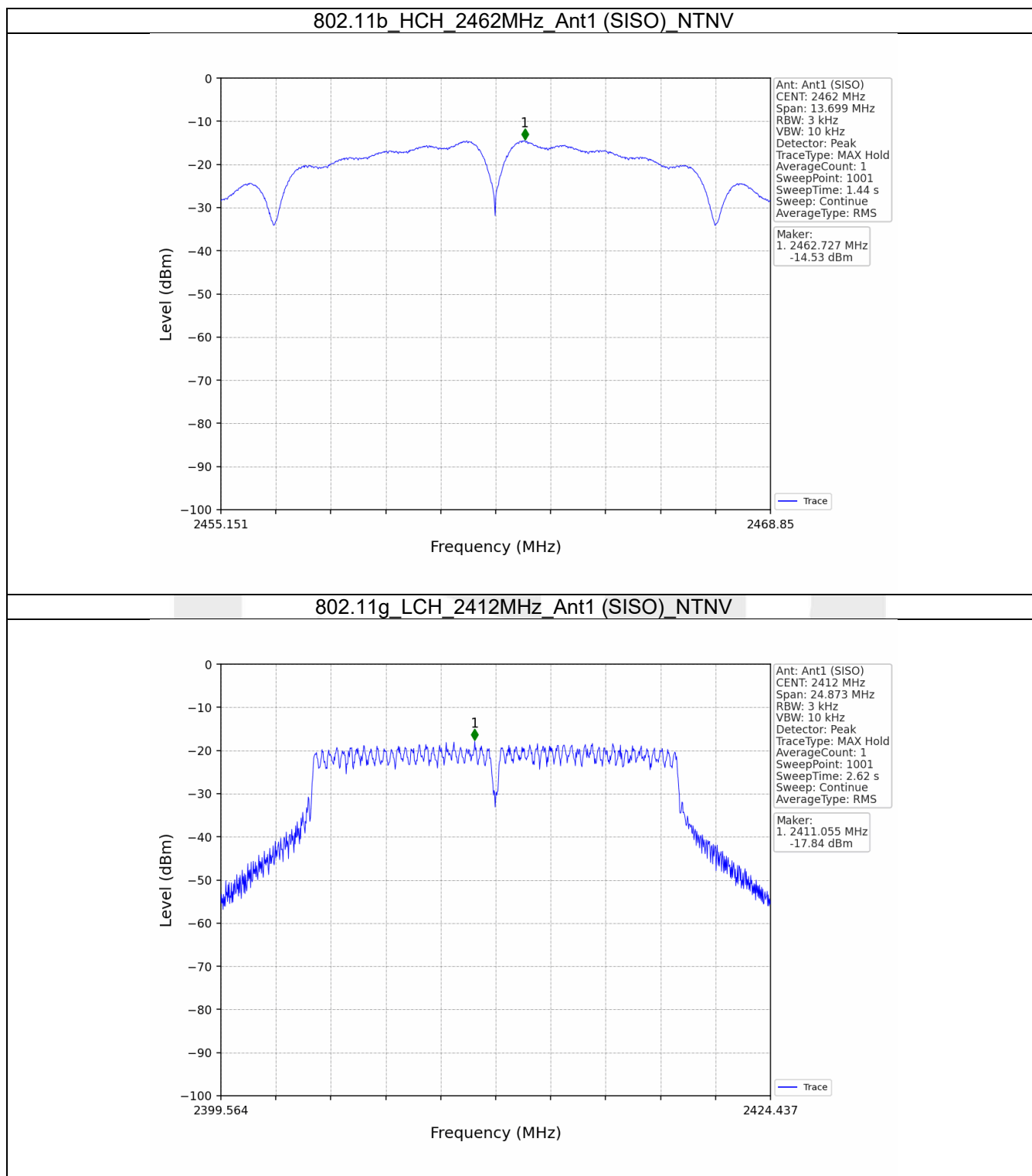
4.1 PSD

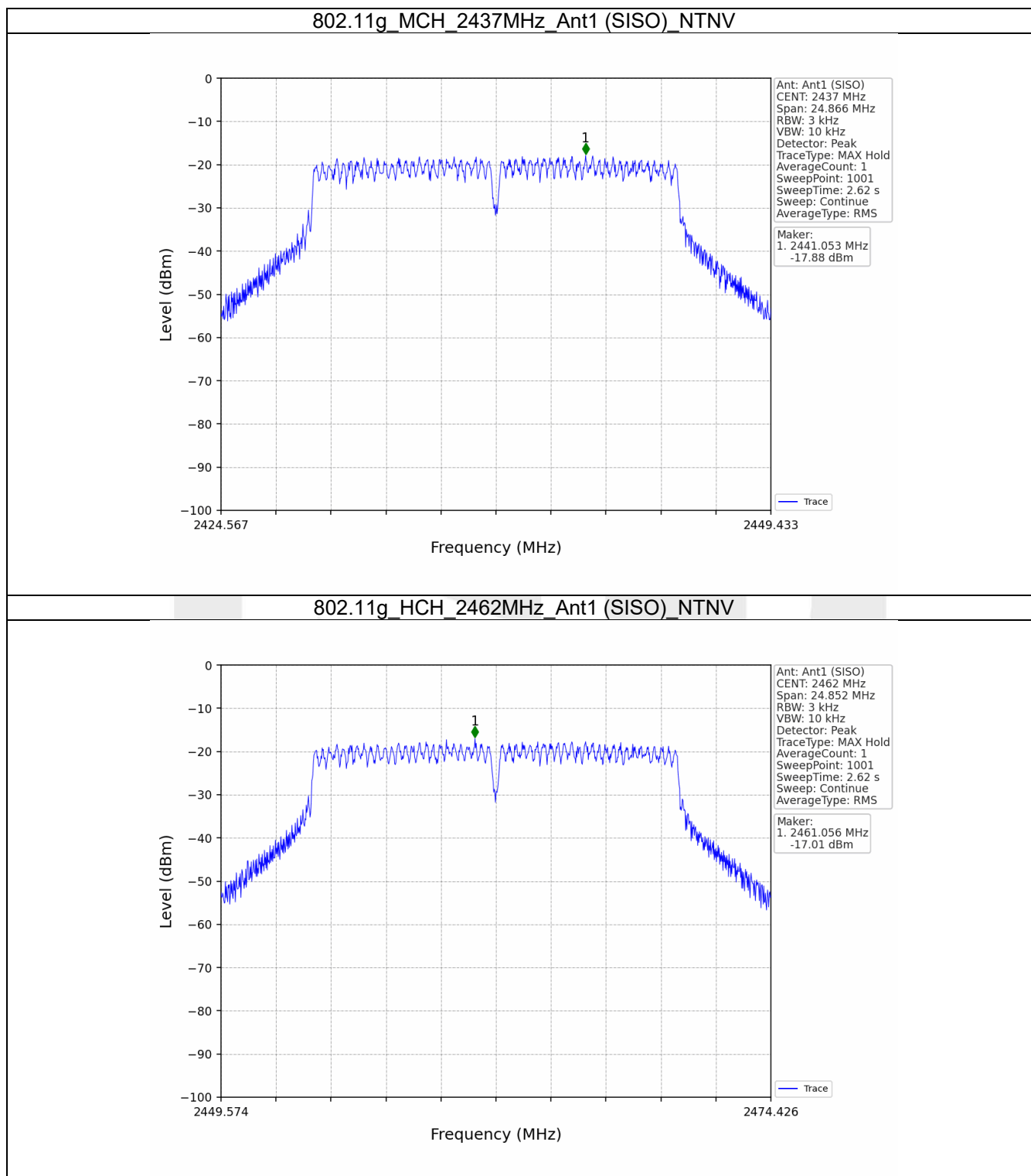
4.1.1 Test Result

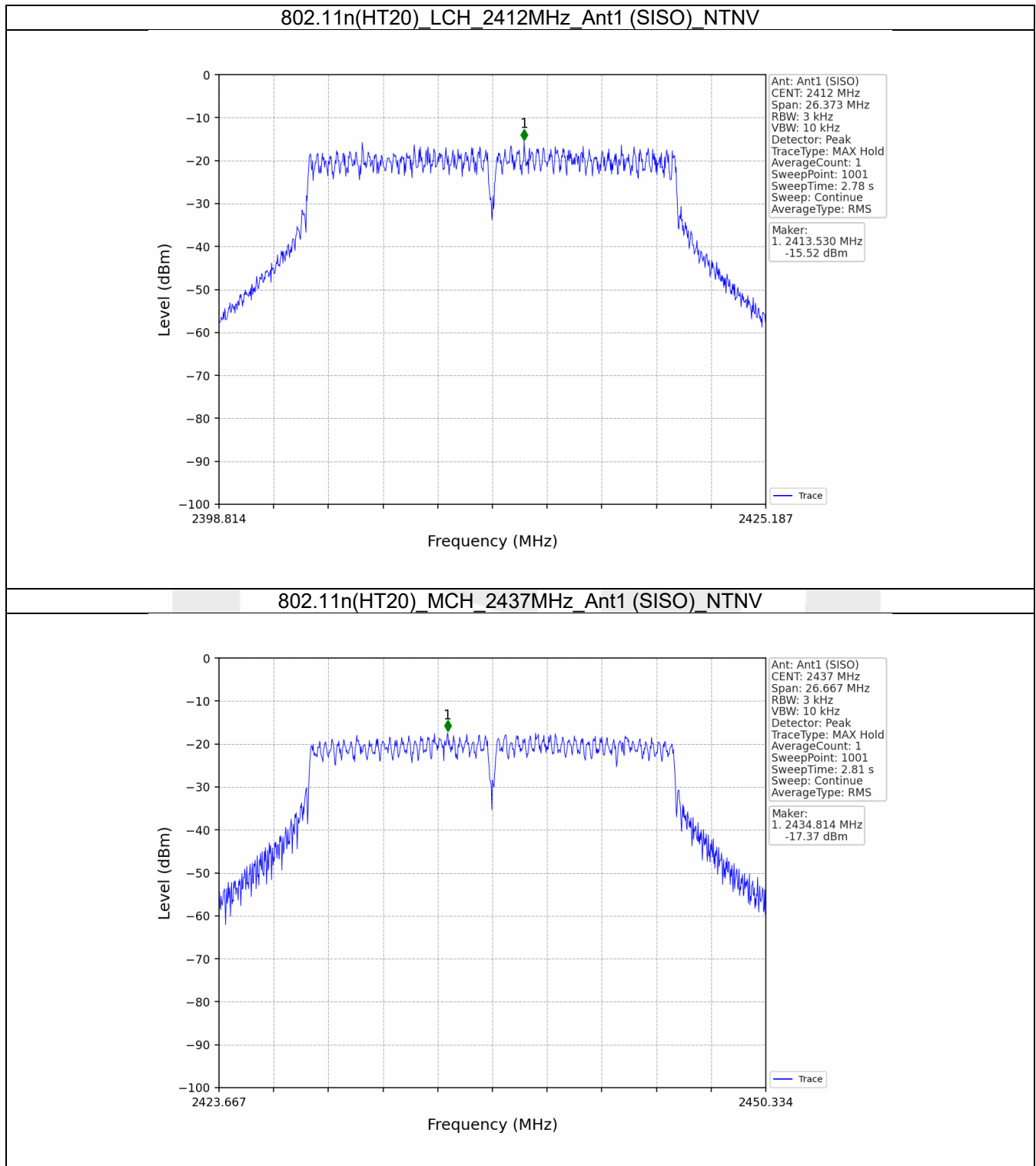
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-15.46	<=8	Pass
		2437	-14.97	<=8	Pass
		2462	-14.53	<=8	Pass
802.11g	SISO	2412	-17.84	<=8	Pass
		2437	-17.88	<=8	Pass
		2462	-17.01	<=8	Pass
802.11n (HT20)	SISO	2412	-15.52	<=8	Pass
		2437	-17.37	<=8	Pass
		2462	-17.00	<=8	Pass

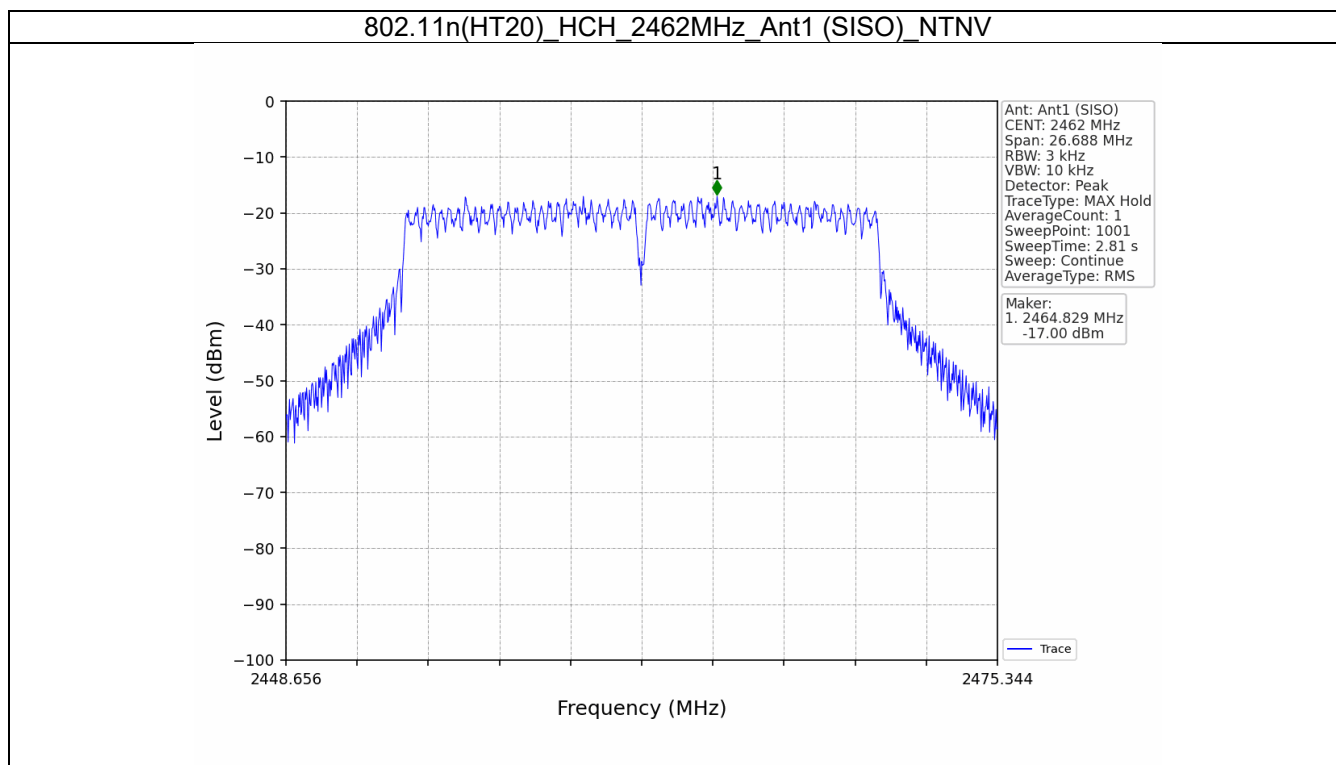
4.1.2 Test Graph











5. Unwanted Emissions In Non-restricted Frequency Bands

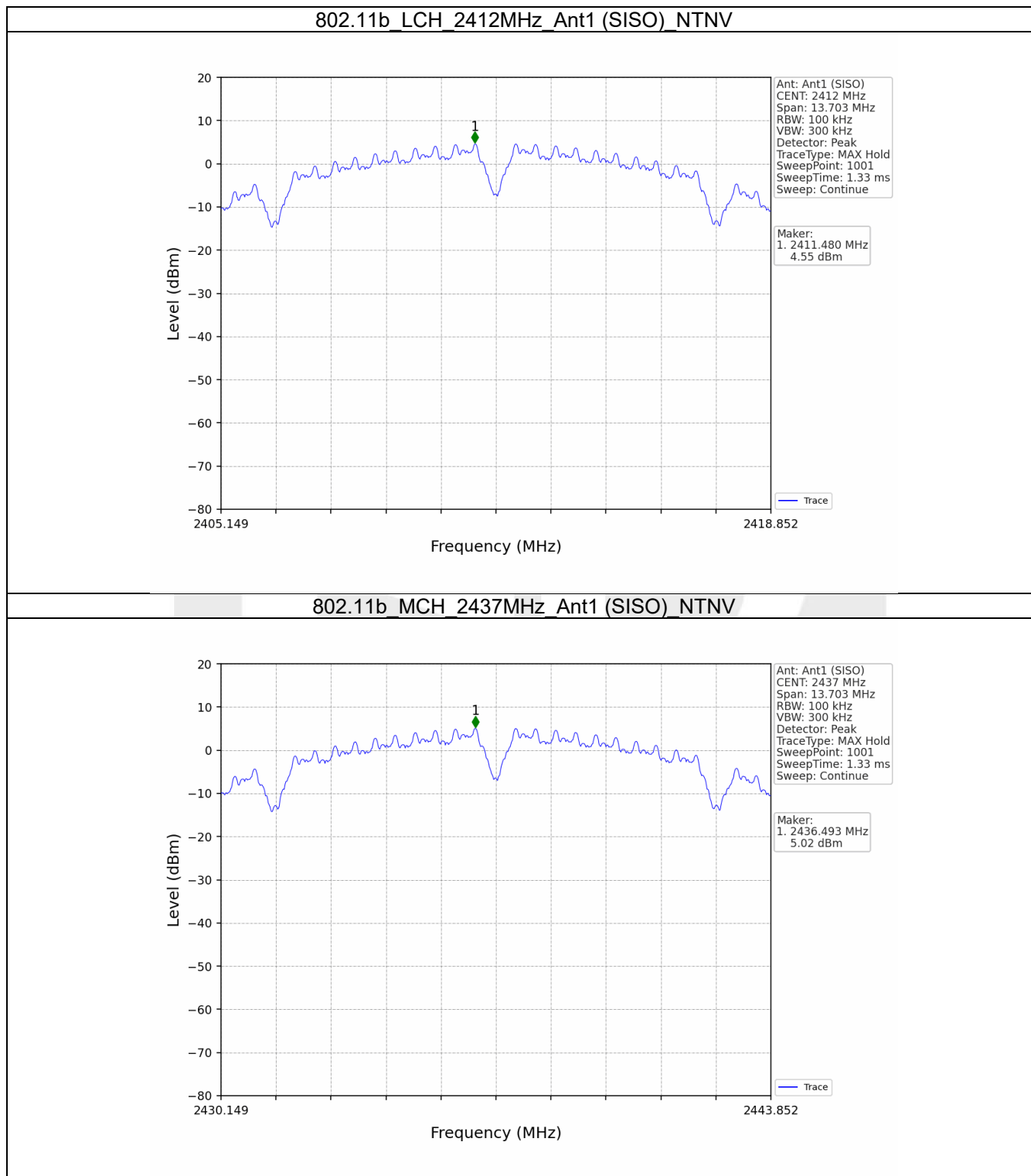
5.1 Ref

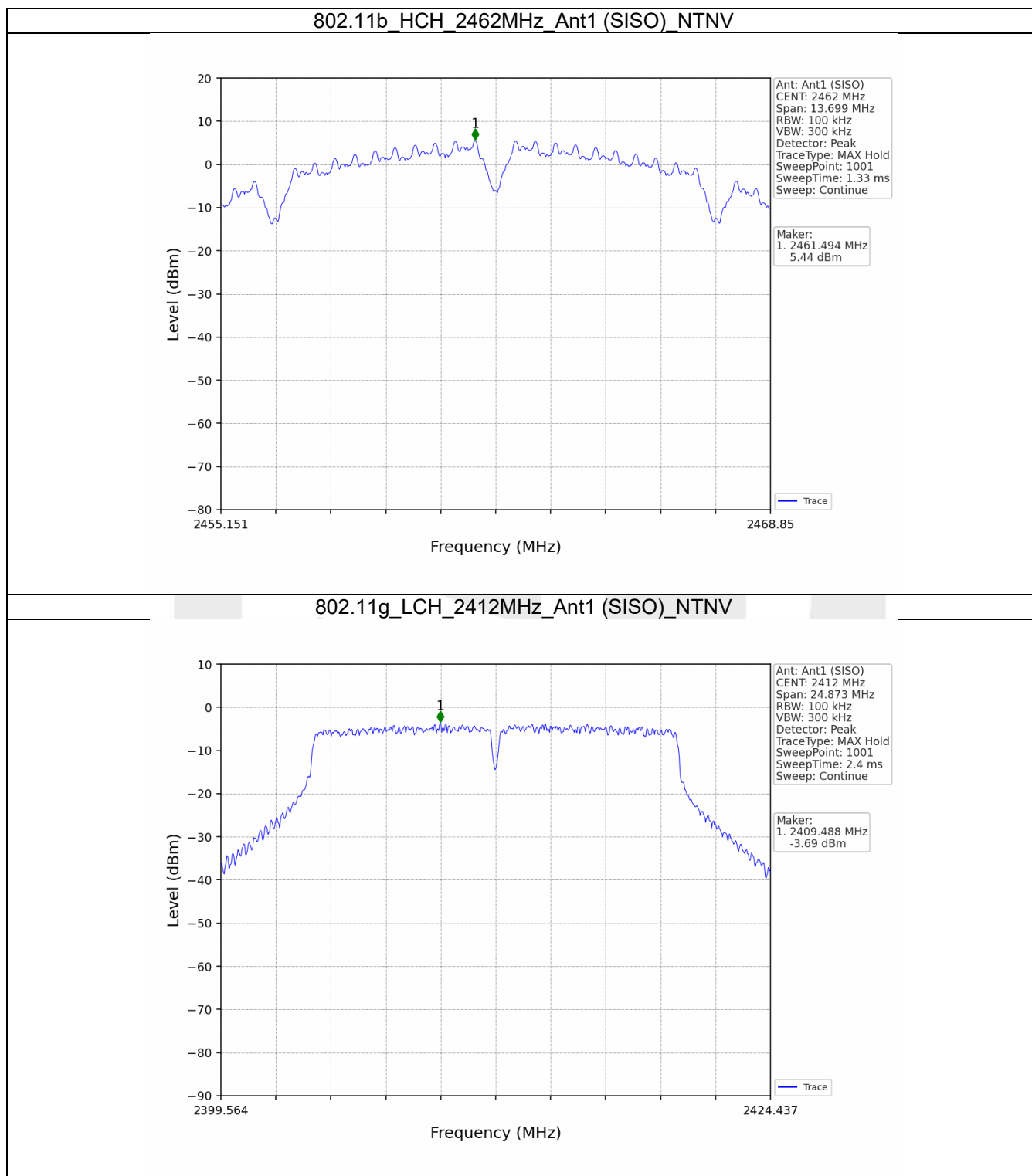
5.1.1 Test Result

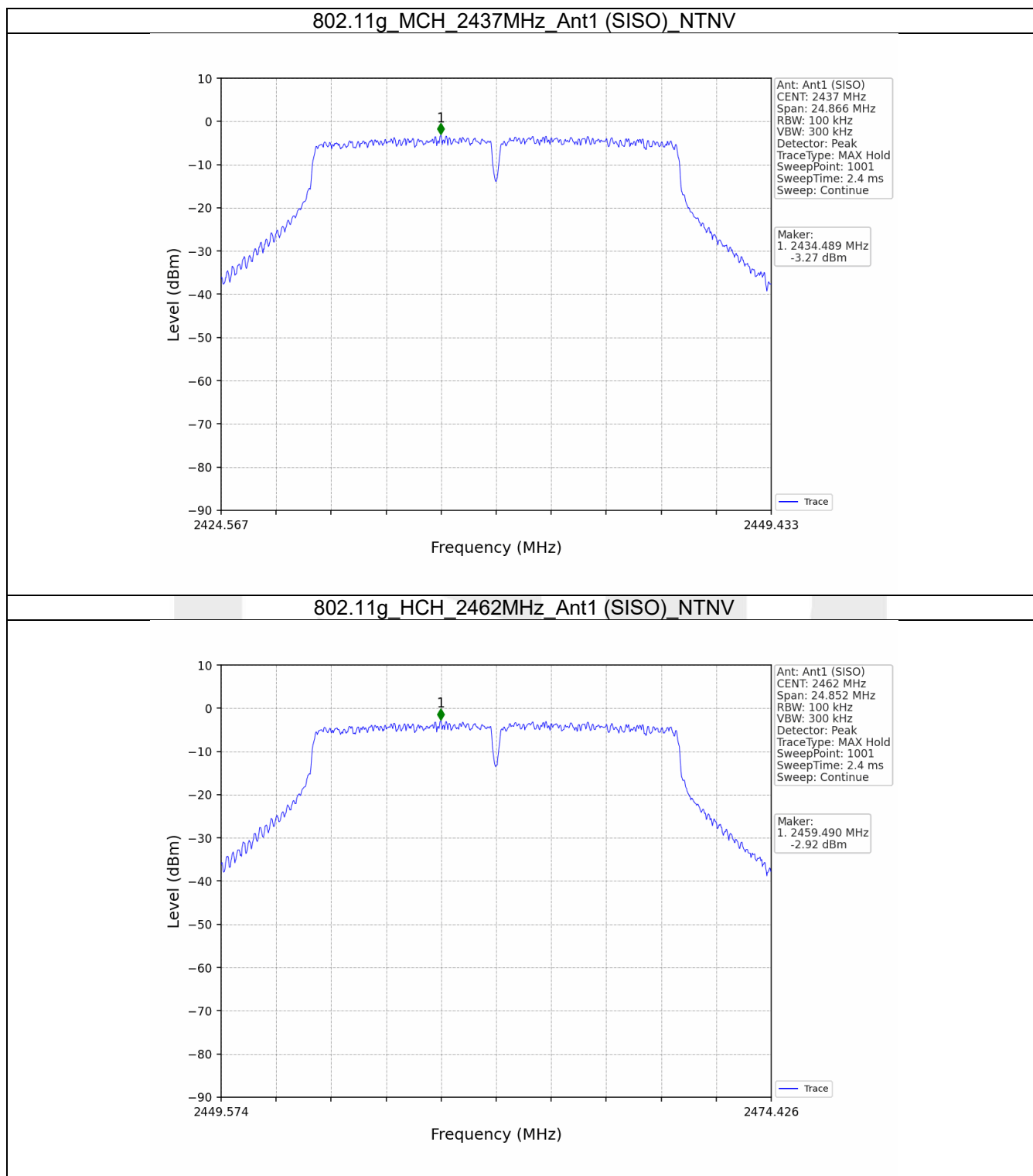
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	4.55
		2437	1	5.02
		2462	1	5.44
802.11g	SISO	2412	1	-3.69
		2437	1	-3.27
		2462	1	-2.92
802.11n (HT20)	SISO	2412	1	-1.07
		2437	1	-2.92
		2462	1	-2.53

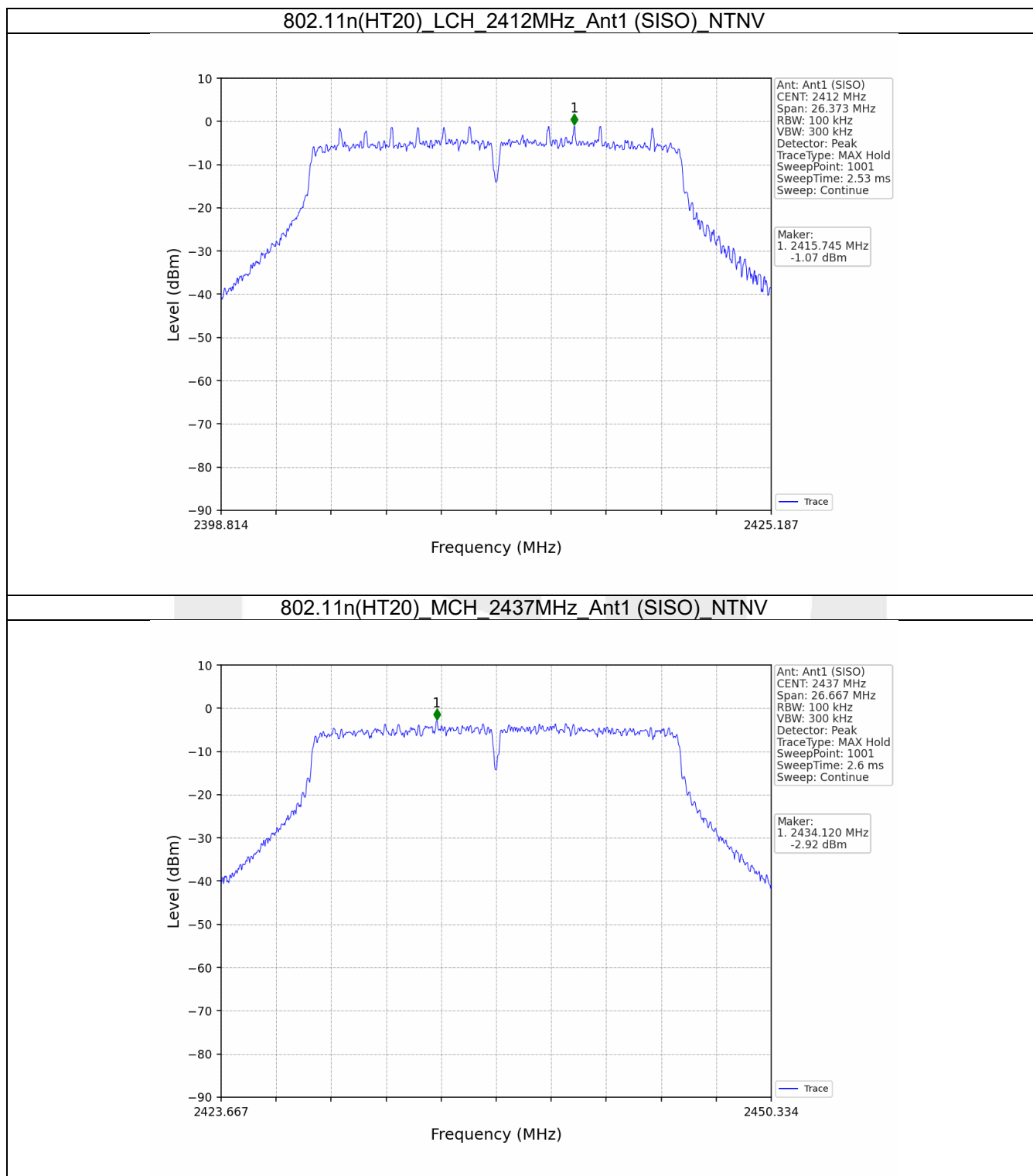
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

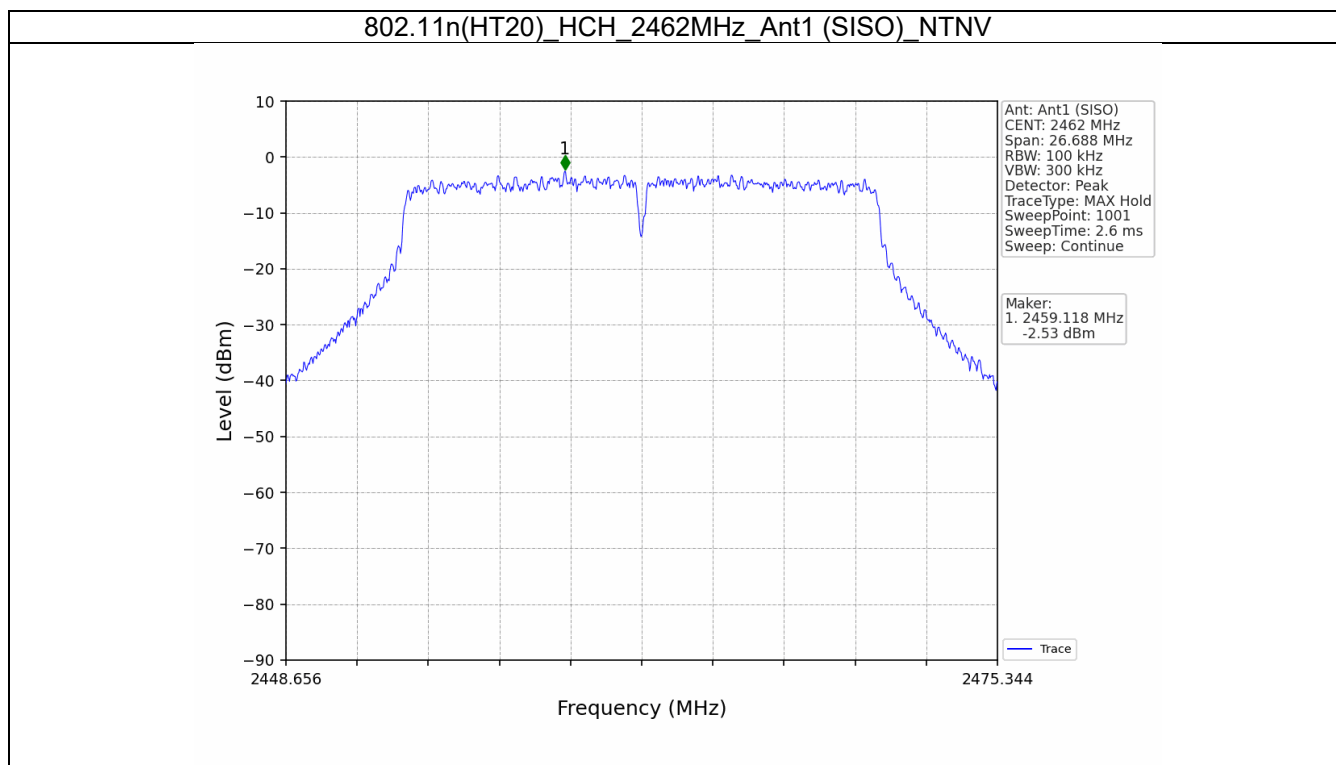
5.1.2 Test Graph









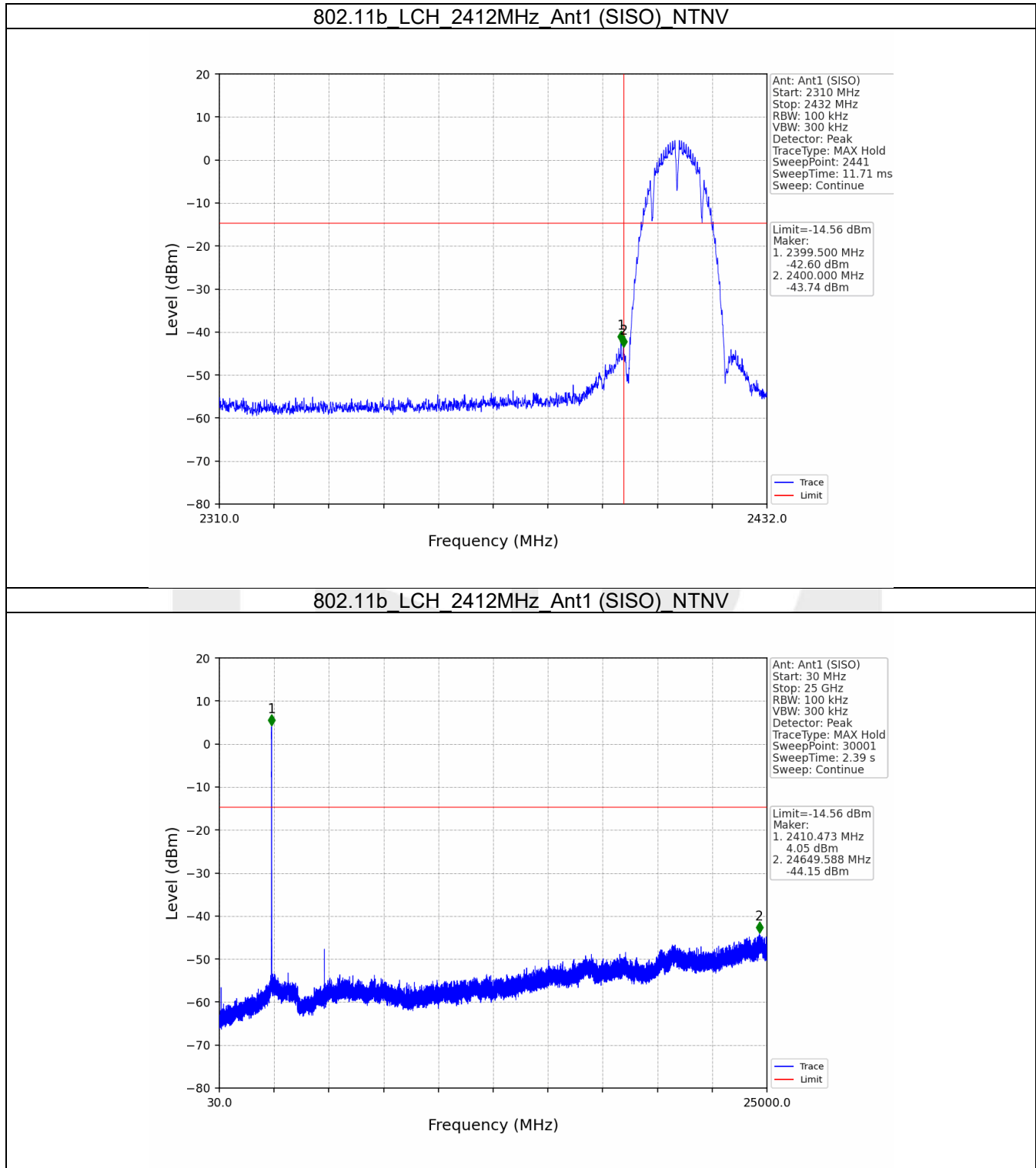


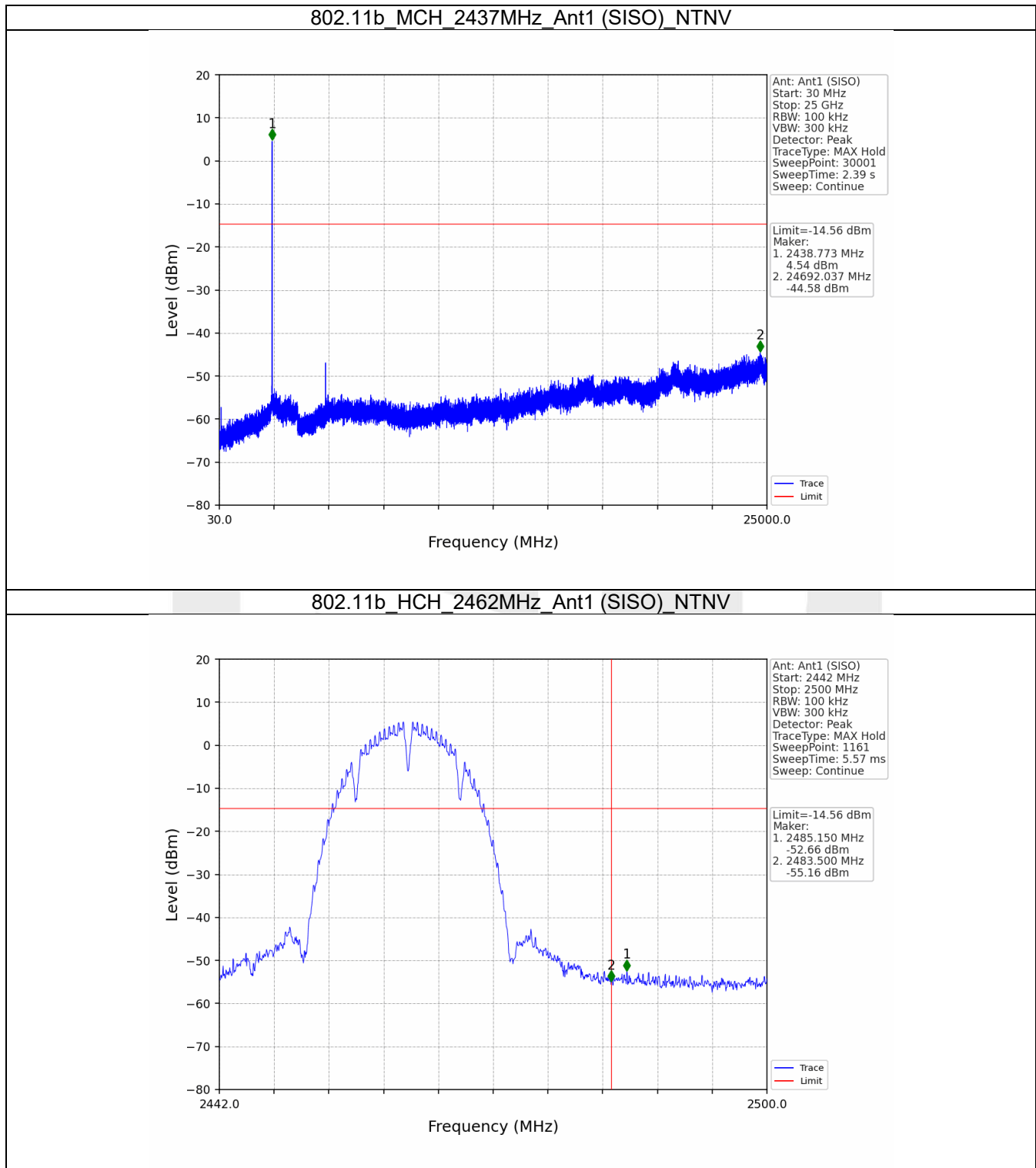
5.2 CSE

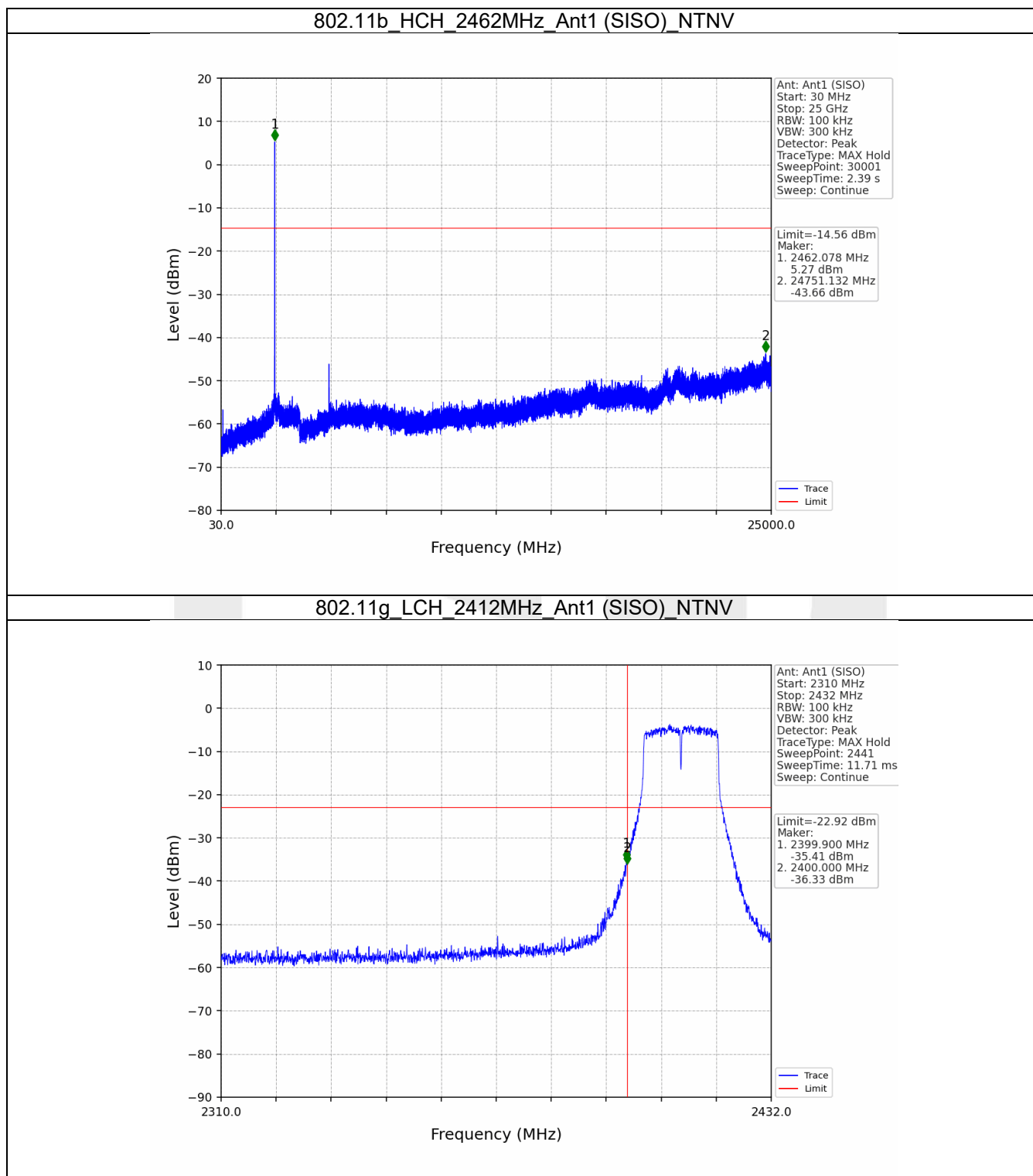
5.2.1 Test Result

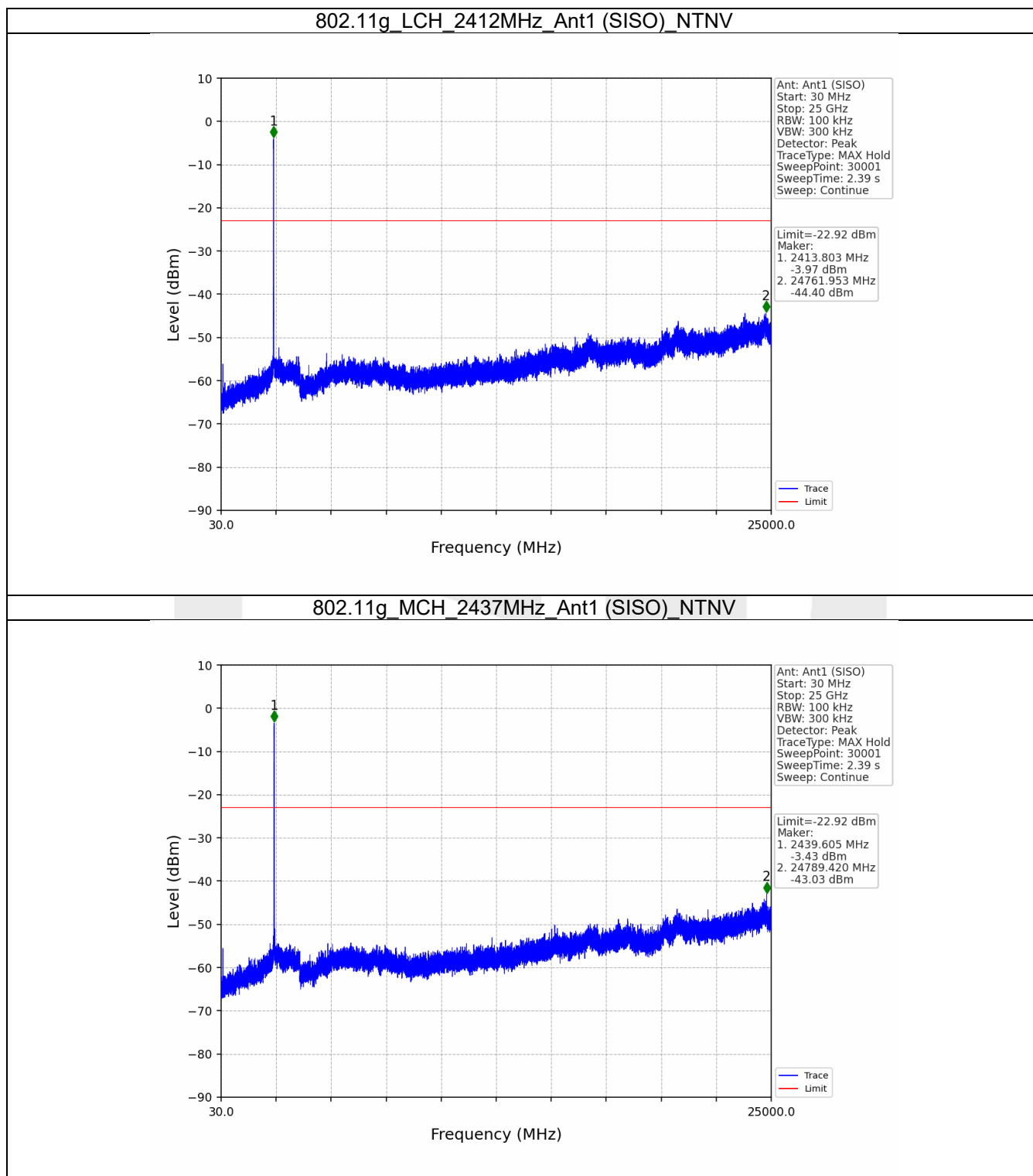
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.44	-14.56	Pass
		2437	1	5.44	-14.56	Pass
		2462	1	5.44	-14.56	Pass
802.11g	SISO	2412	1	-2.92	-22.92	Pass
		2437	1	-2.92	-22.92	Pass
		2462	1	-2.92	-22.92	Pass
802.11n (HT20)	SISO	2412	1	-1.07	-21.07	Pass
		2437	1	-1.07	-21.07	Pass
		2462	1	-1.07	-21.07	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.						

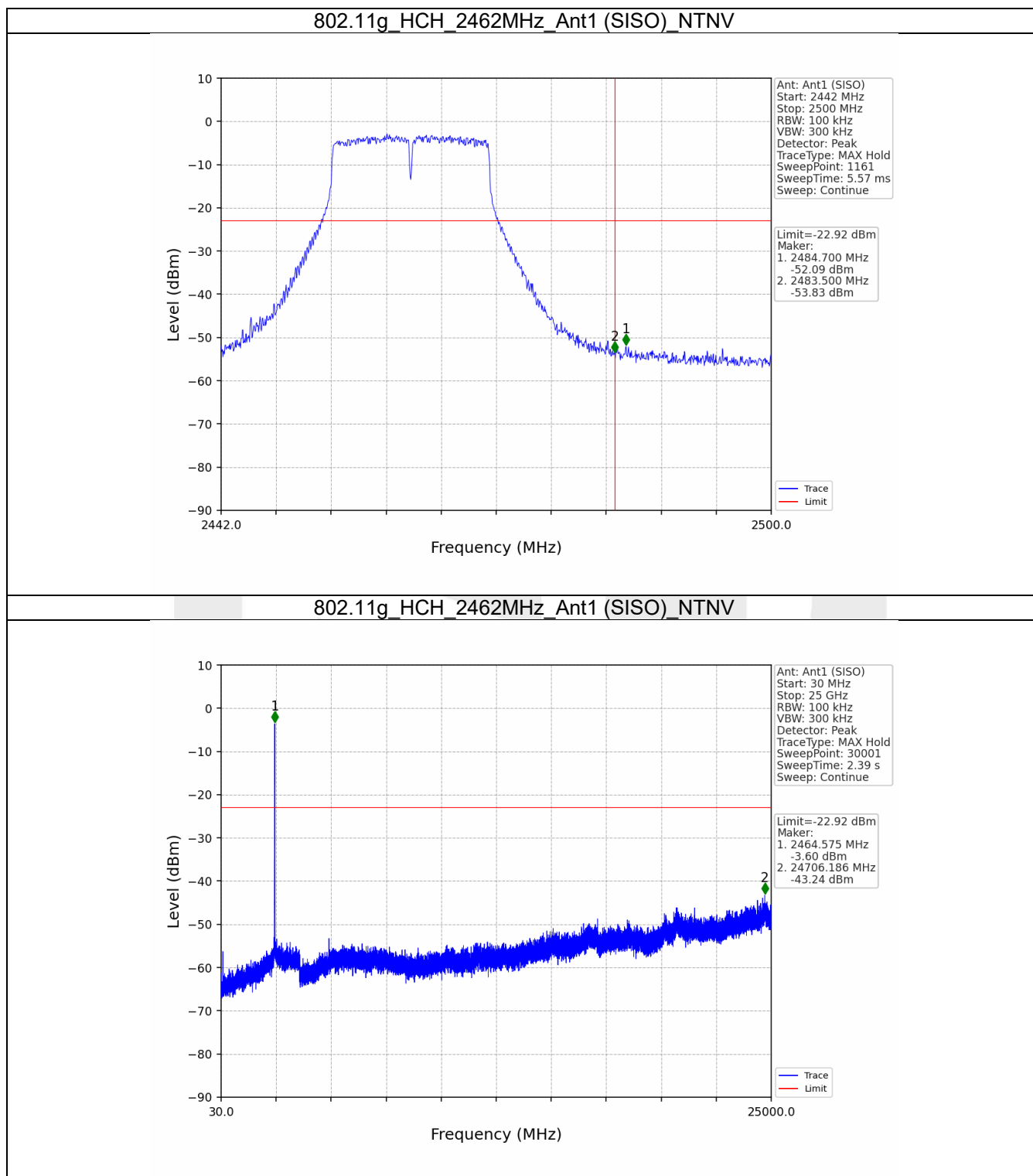
5.2.2 Test Graph

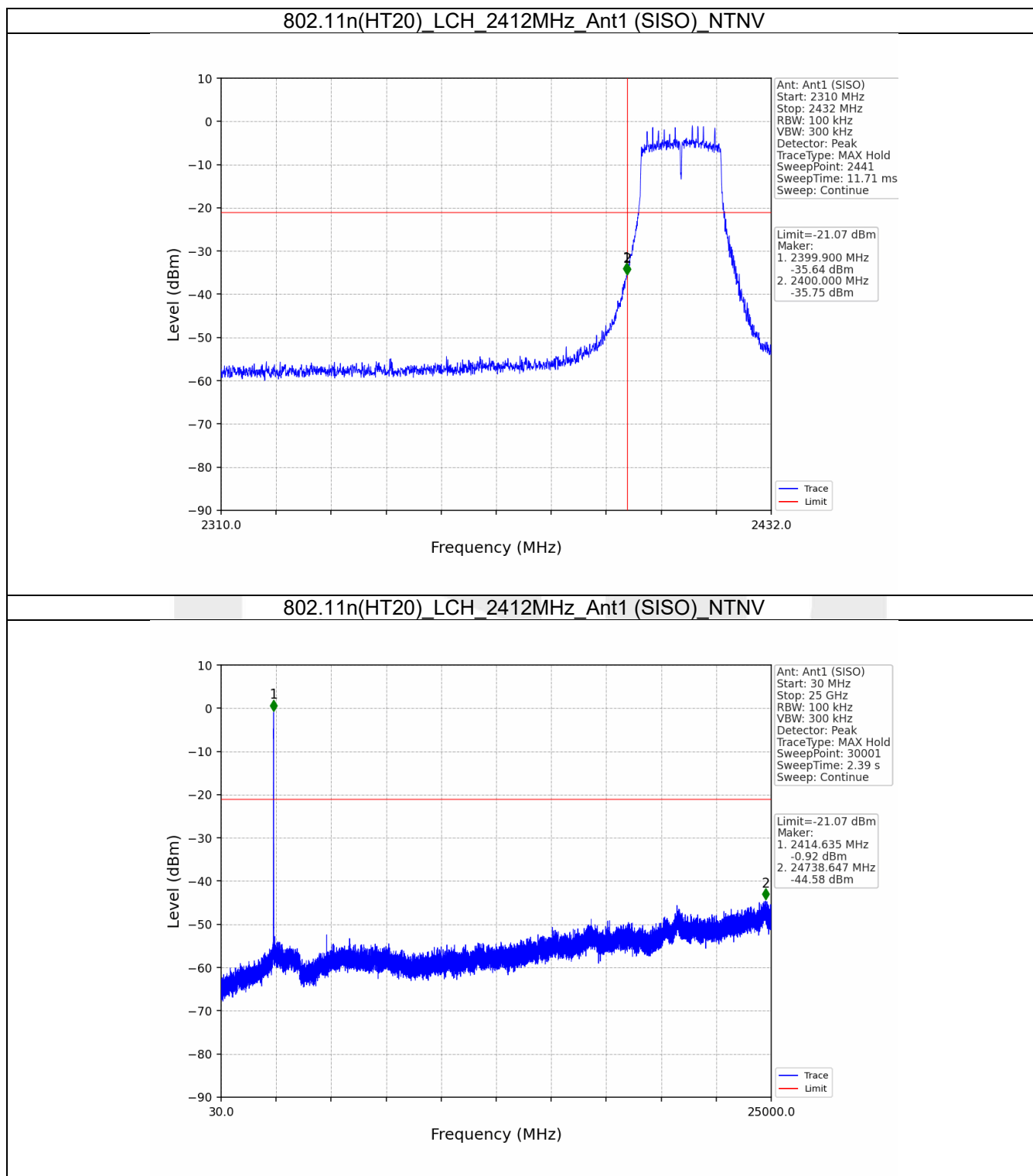


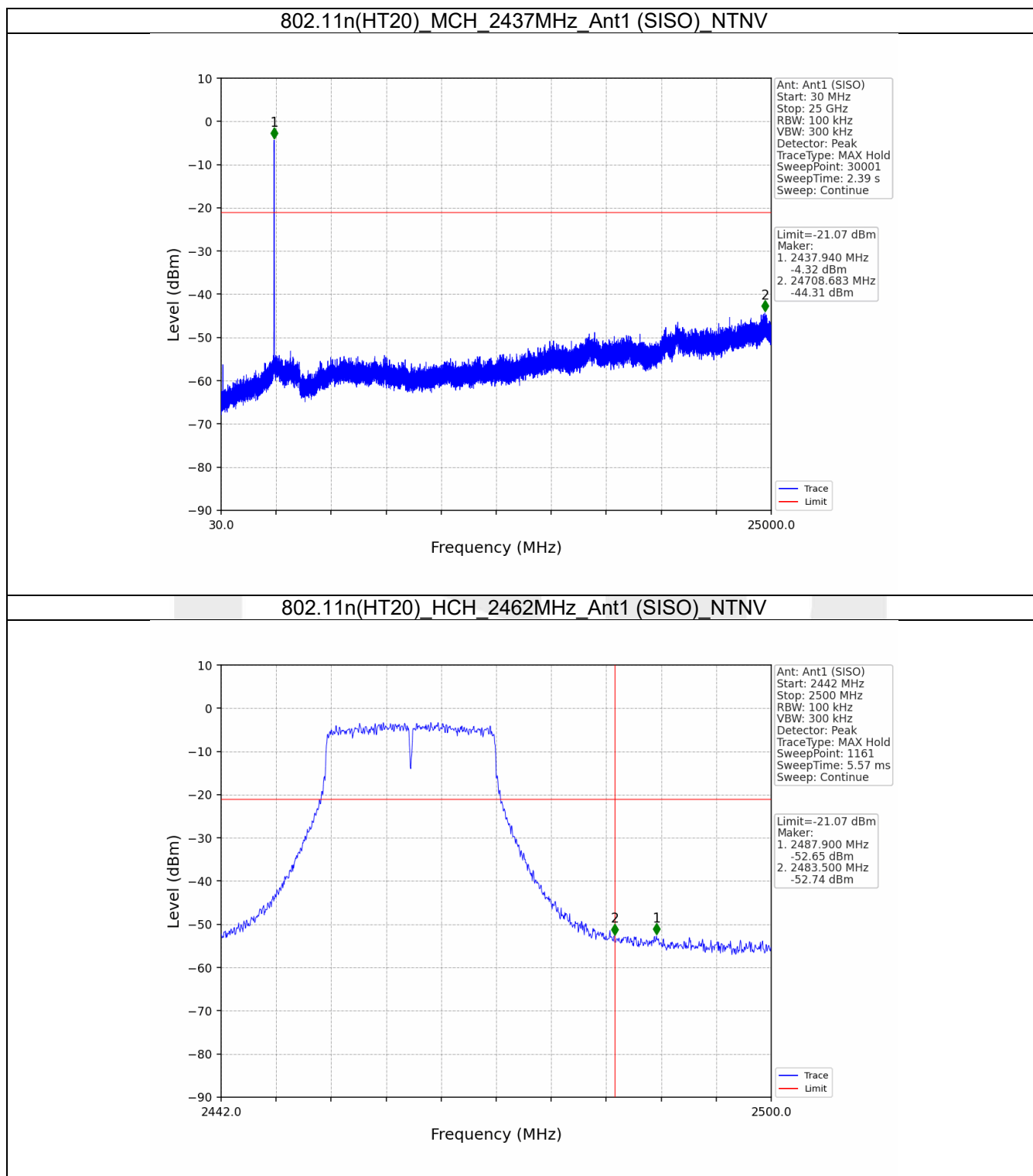


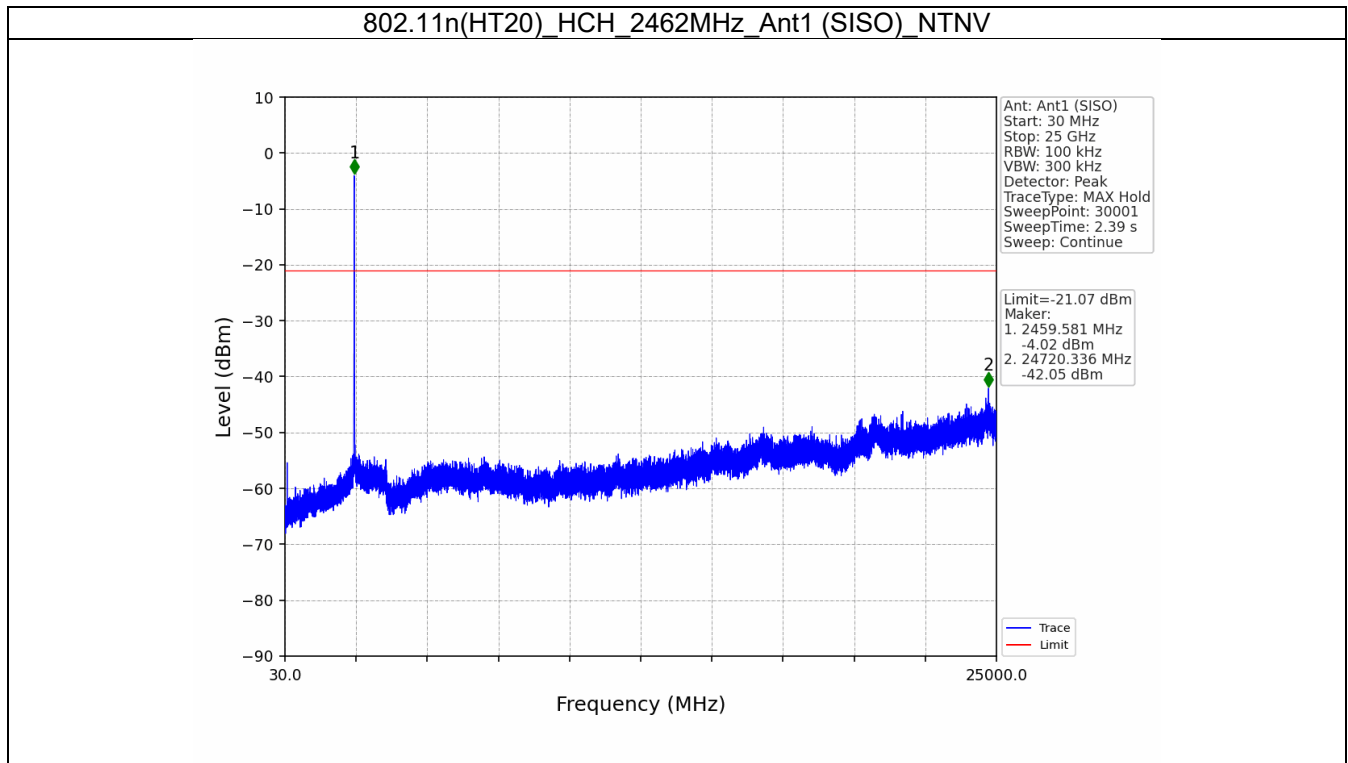












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