

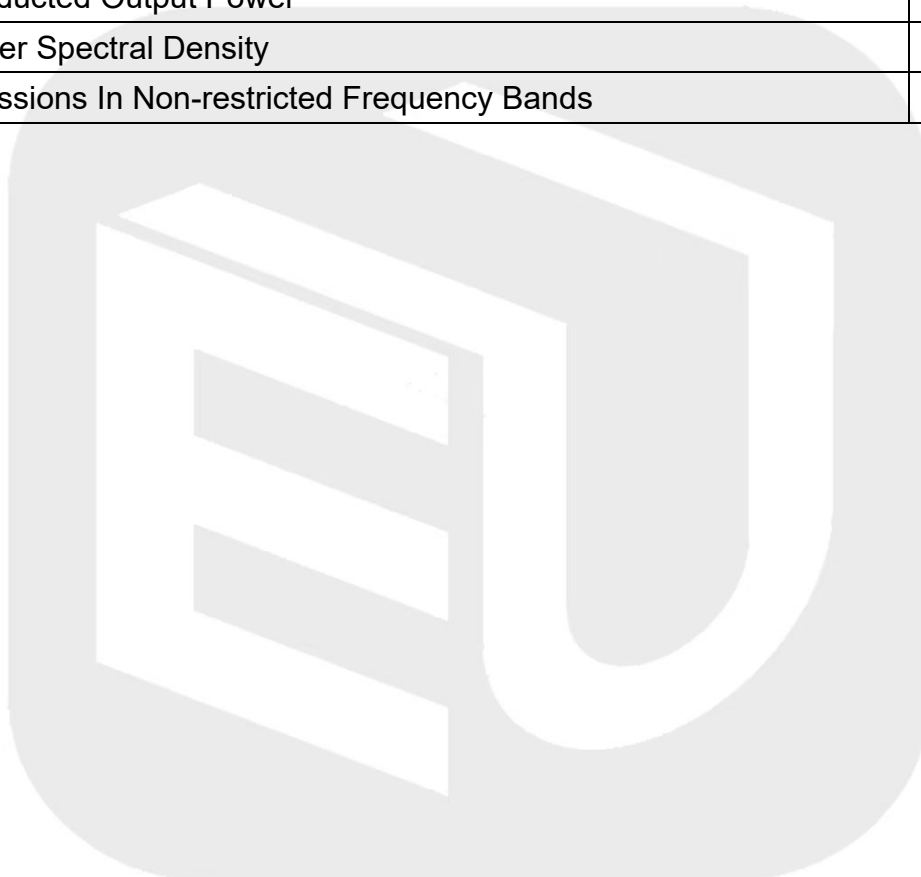
ANNEX E TEST DATA

For

Project No.:	8335EU122304W
Client:	Dongguan Fengli Electronics Co., Ltd
Product Description:	Car multimedia player
Model No.:	AS-F021
FCC ID:	2BTG3-AS-F021
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2025-11-04

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

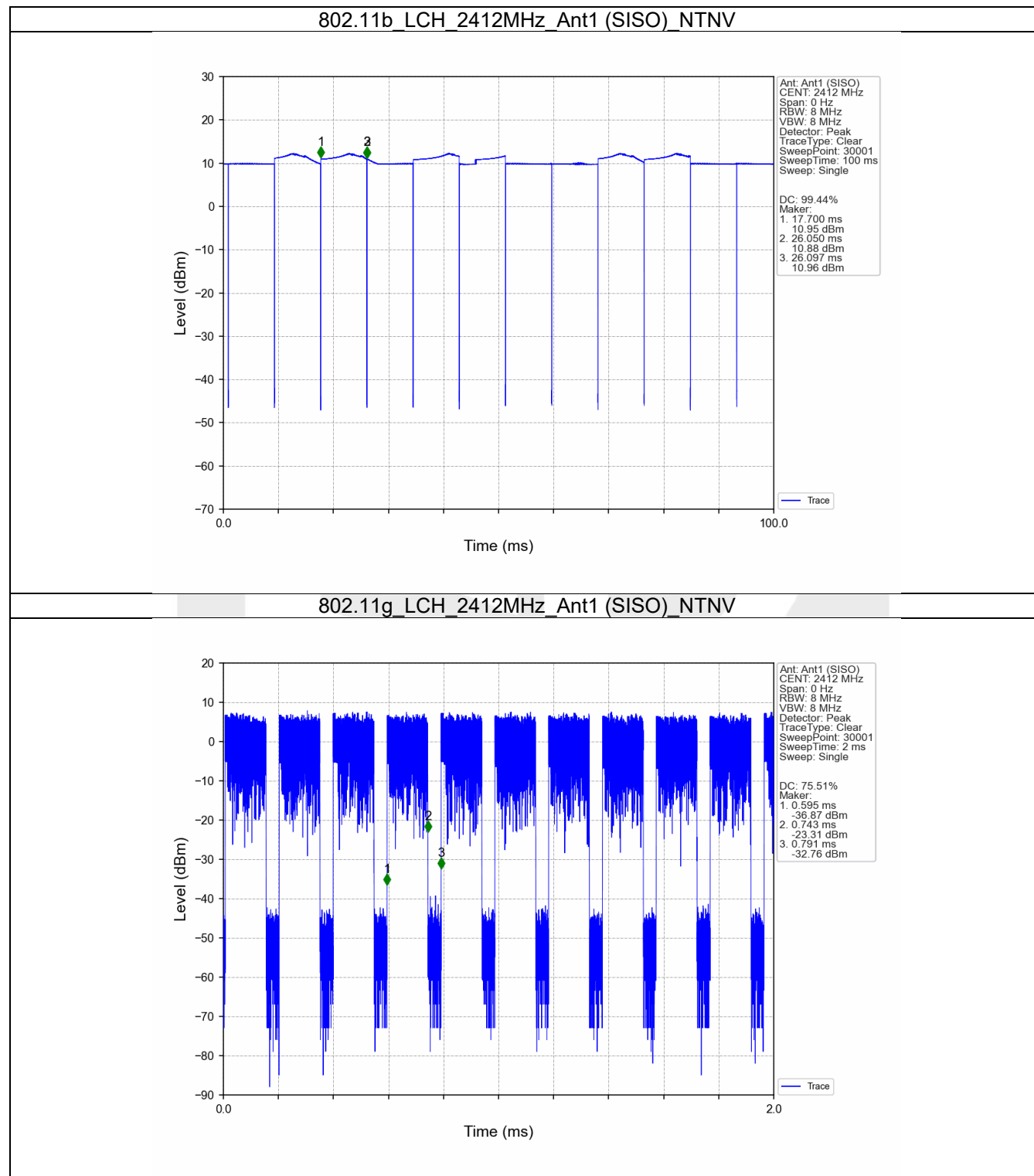
1.1 Test Result

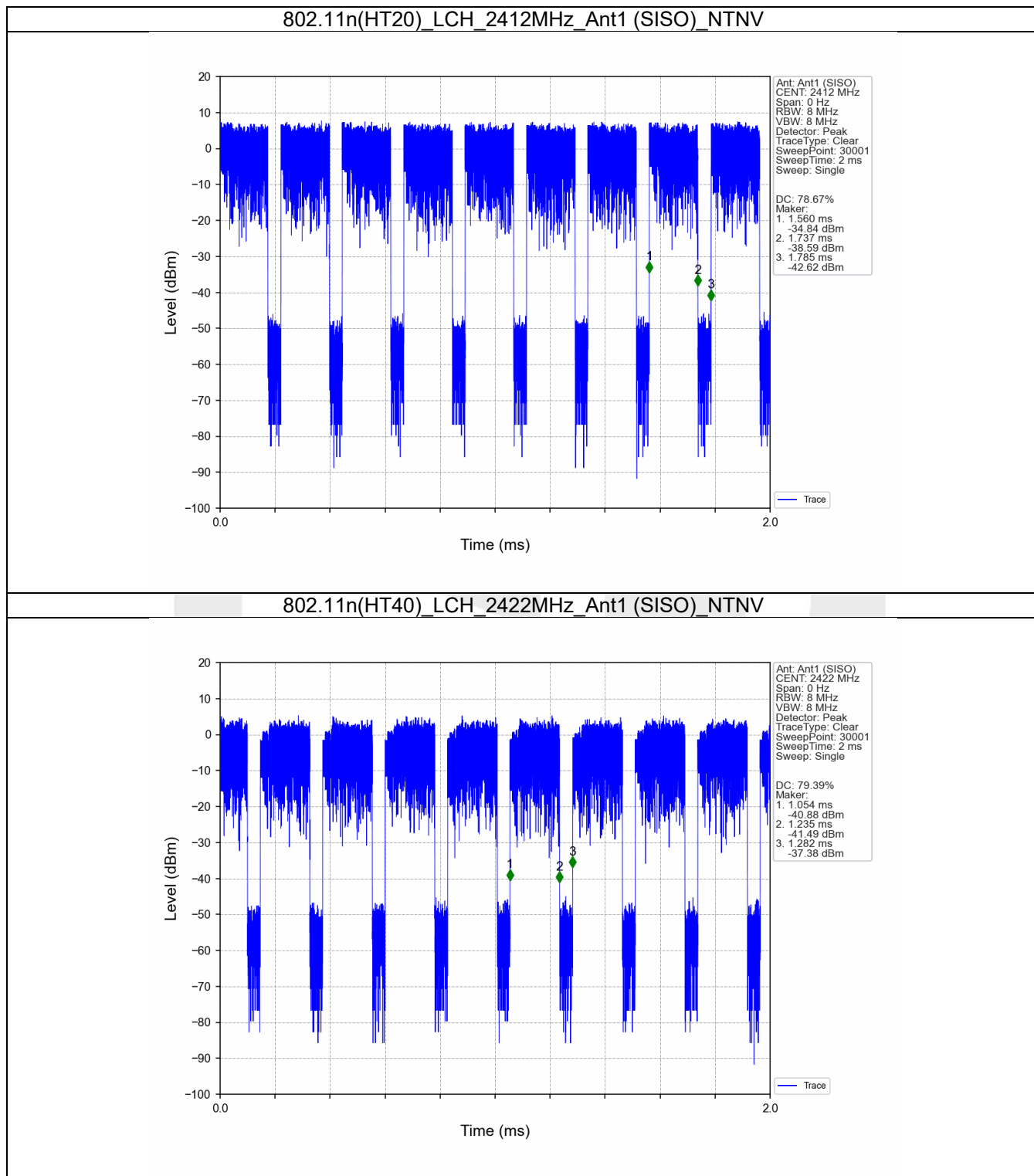
1.1.1 Ant1

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	8.350	8.397	99.44	0.02	0.04
802.11g	SISO	2412	0.148	0.196	75.51	1.22	0.49
802.11n (HT20)	SISO	2412	0.177	0.225	78.67	1.04	0.68
802.11n (HT40)	SISO	2422	0.181	0.228	79.39	1.00	0.51

1.2 Test Graph

1.2.1 Ant1





2. Bandwidth

2.1 Test Result

2.1.1 OBW

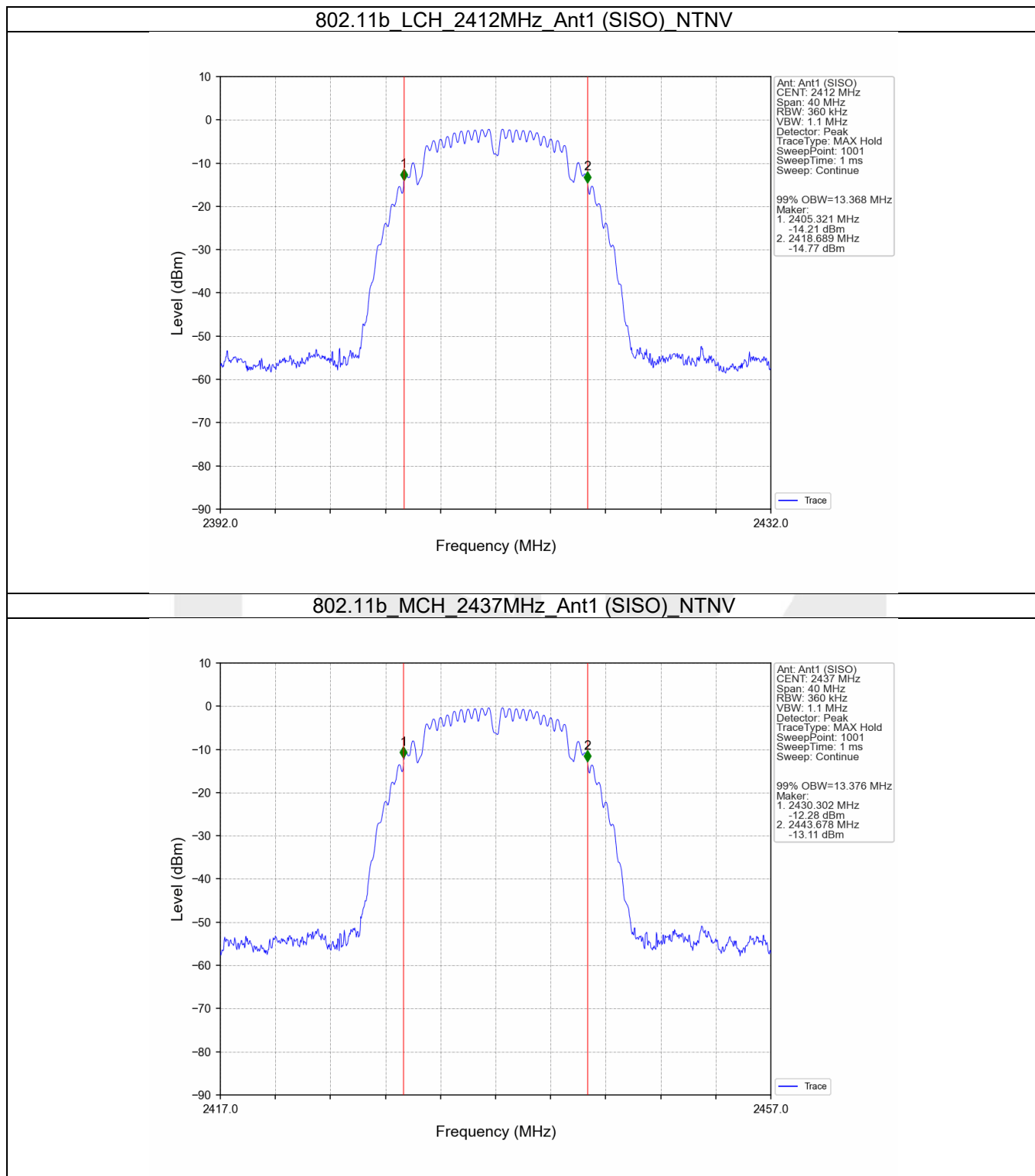
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.368	/	Pass
		2437	1	13.376	/	Pass
		2462	1	13.380	/	Pass
802.11g	SISO	2412	1	17.304	/	Pass
		2437	1	17.323	/	Pass
		2462	1	17.295	/	Pass
802.11n (HT20)	SISO	2412	1	18.300	/	Pass
		2437	1	17.320	/	Pass
		2462	1	17.355	/	Pass
802.11n (HT40)	SISO	2422	1	36.234	/	Pass
		2437	1	36.255	/	Pass
		2452	1	36.230	/	Pass

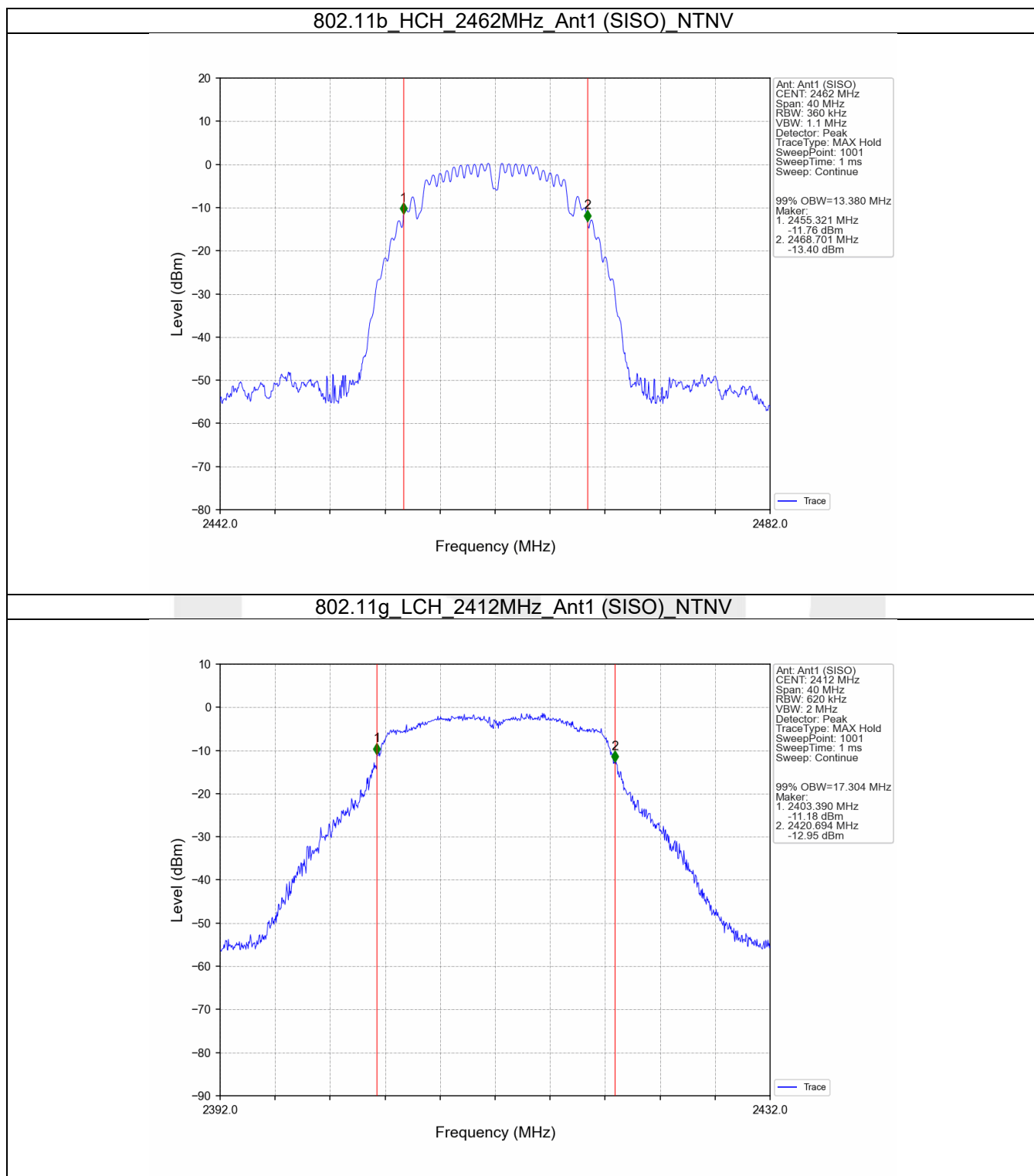
2.1.2 6dB BW

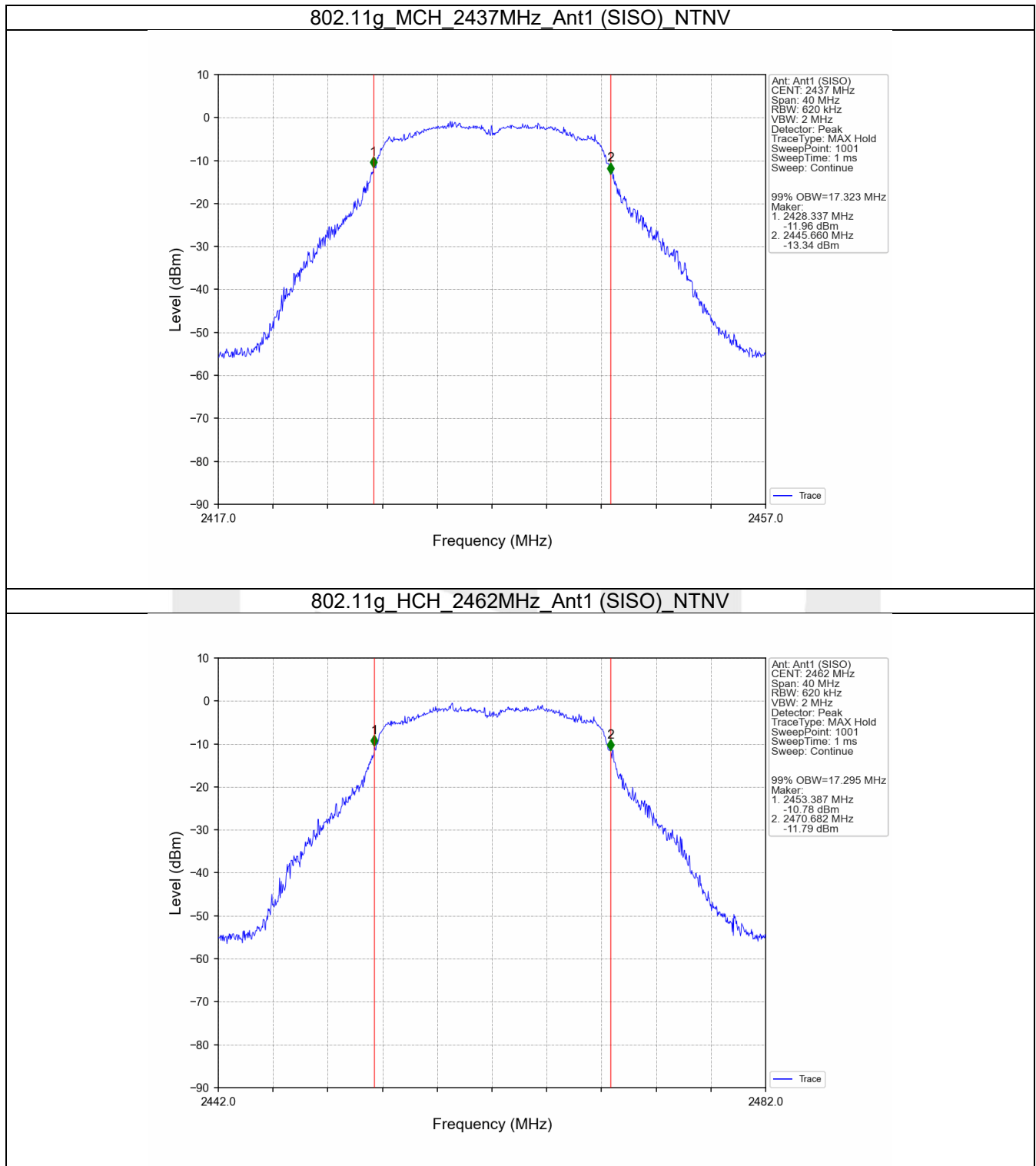
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.352	≥ 0.5	Pass
		2437	1	10.351	≥ 0.5	Pass
		2462	1	10.353	≥ 0.5	Pass
802.11g	SISO	2412	1	15.994	≥ 0.5	Pass
		2437	1	16.162	≥ 0.5	Pass
		2462	1	16.078	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.158	≥ 0.5	Pass
		2437	1	16.028	≥ 0.5	Pass
		2462	1	16.062	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.545	≥ 0.5	Pass
		2437	1	35.548	≥ 0.5	Pass
		2452	1	35.807	≥ 0.5	Pass

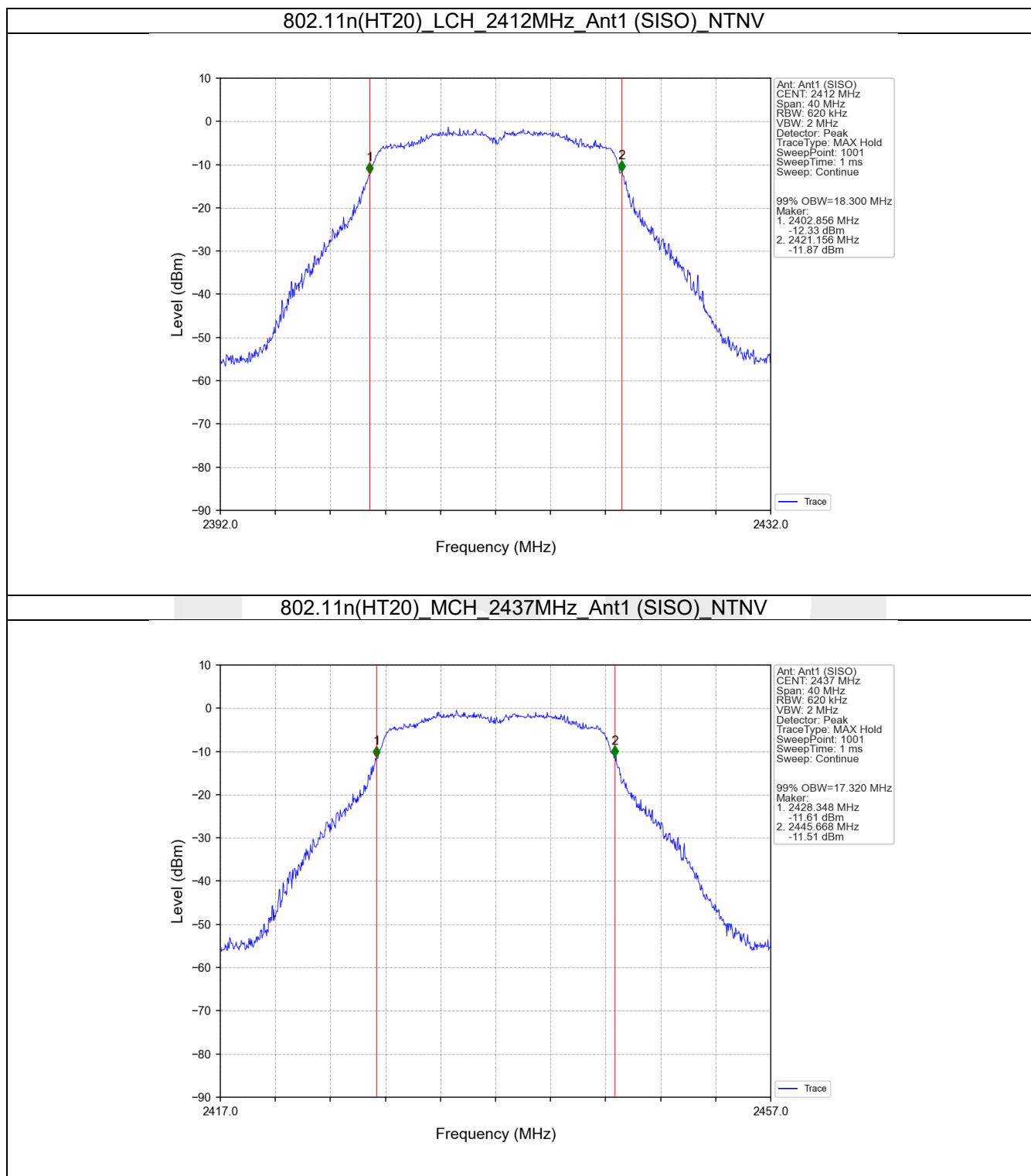
2.2 Test Graph

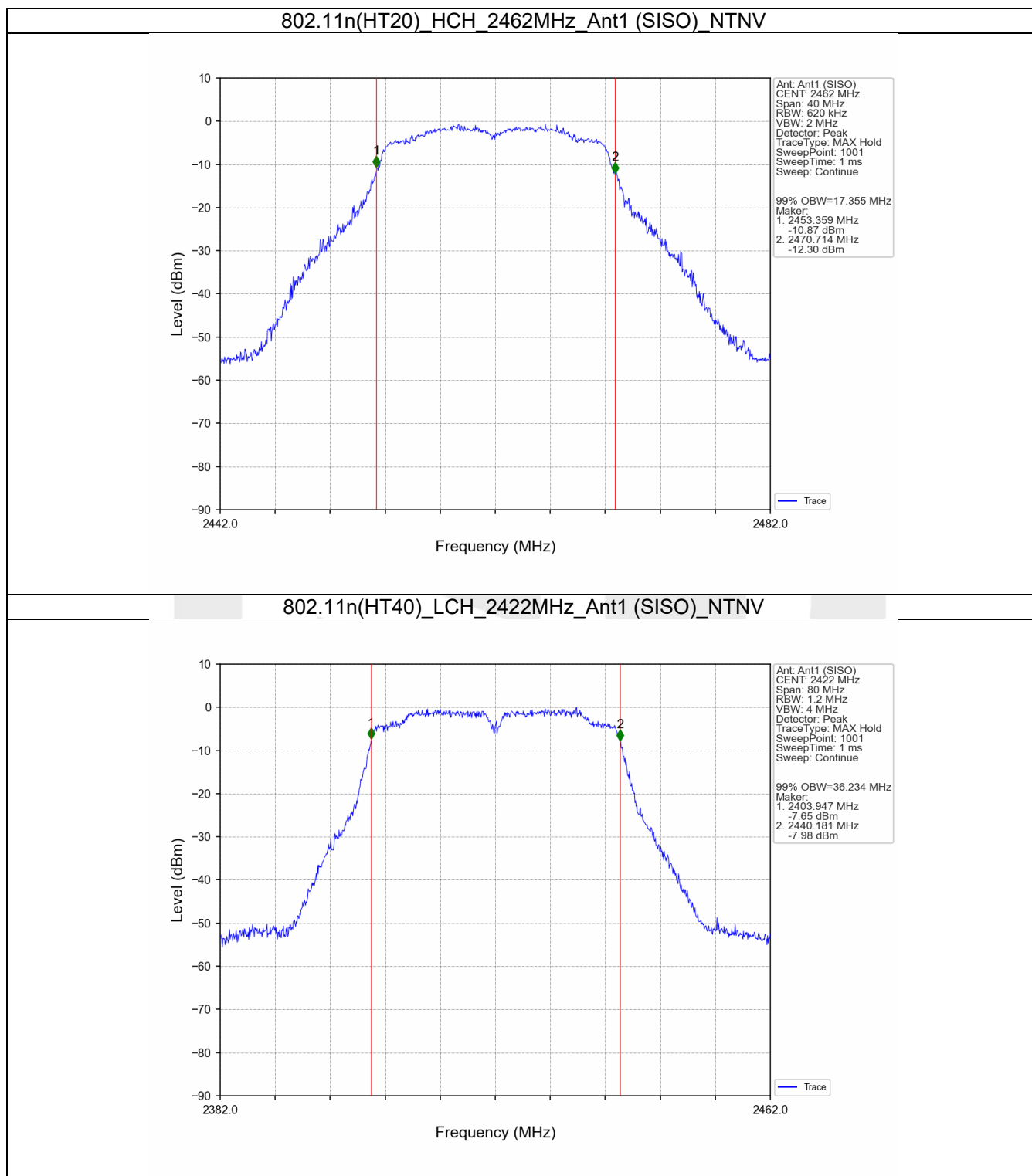
2.2.1 OBW

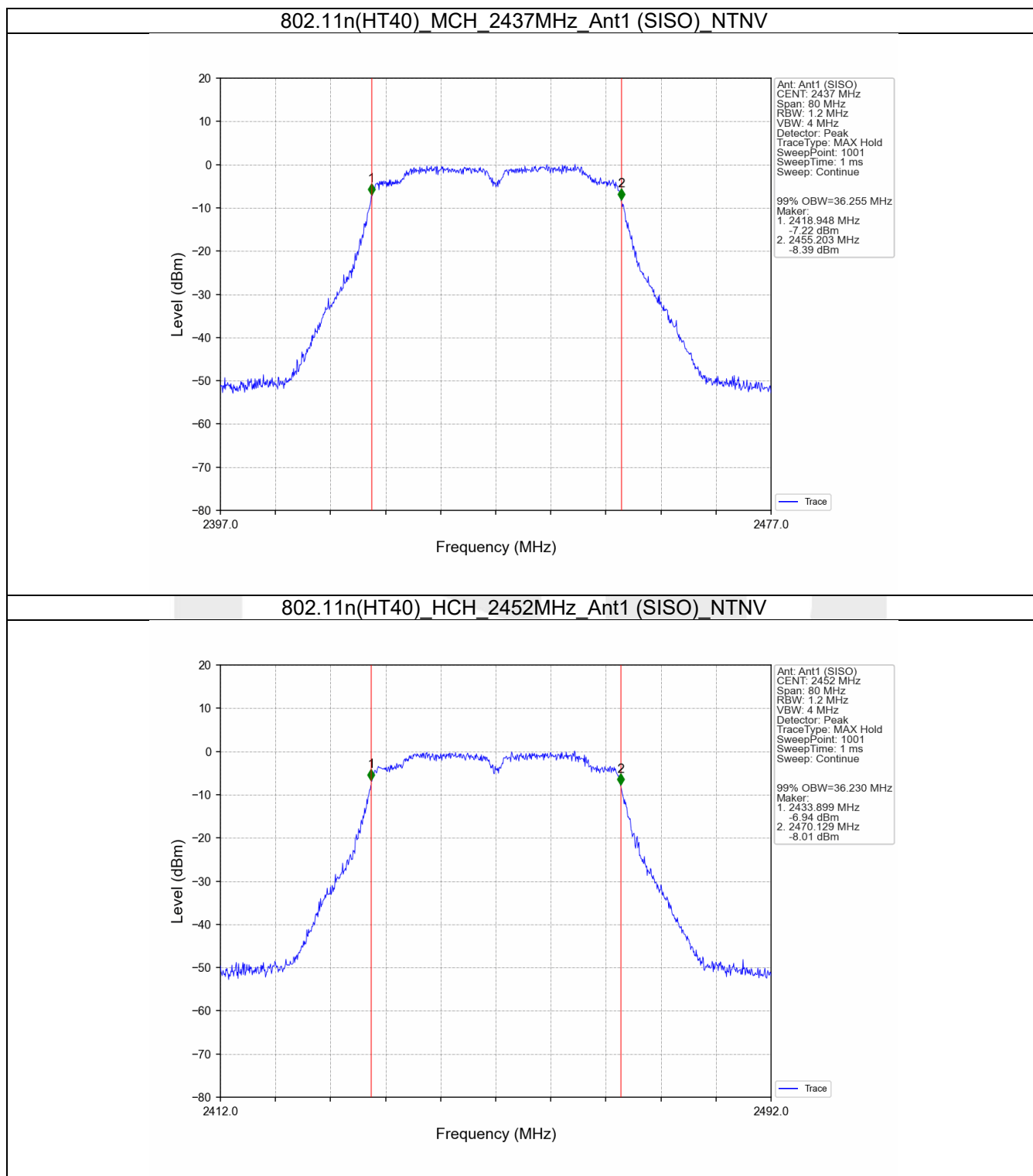




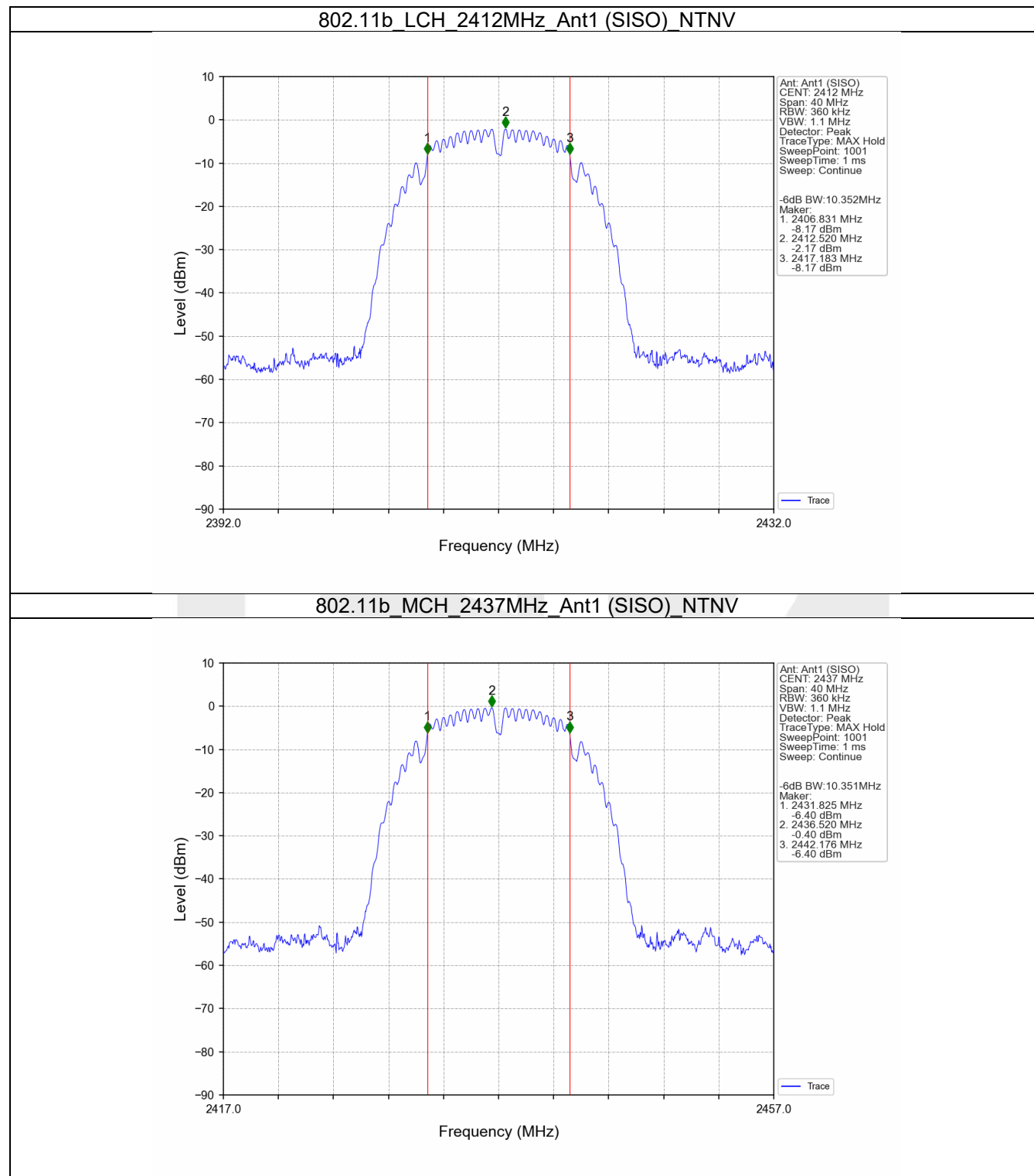


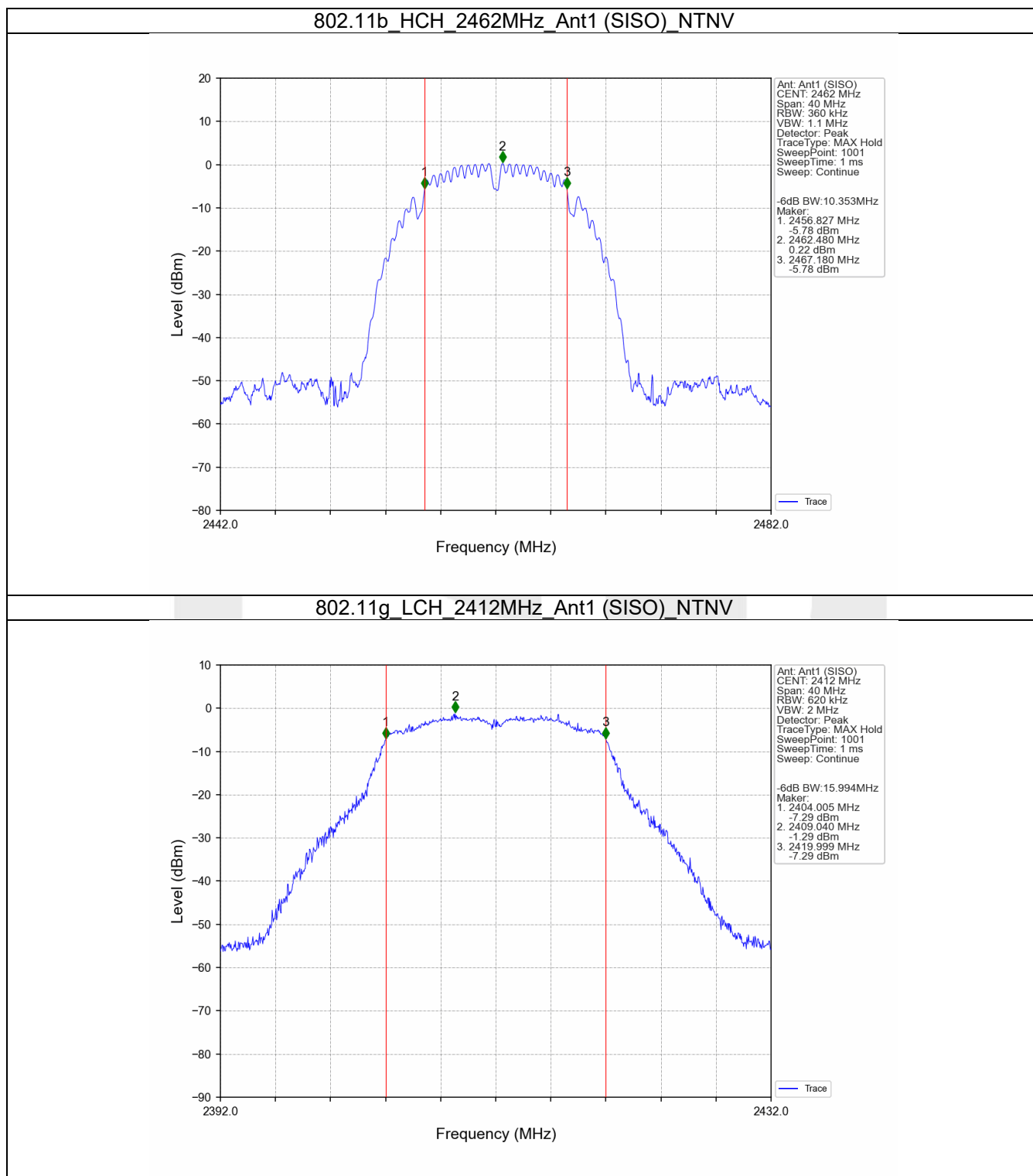


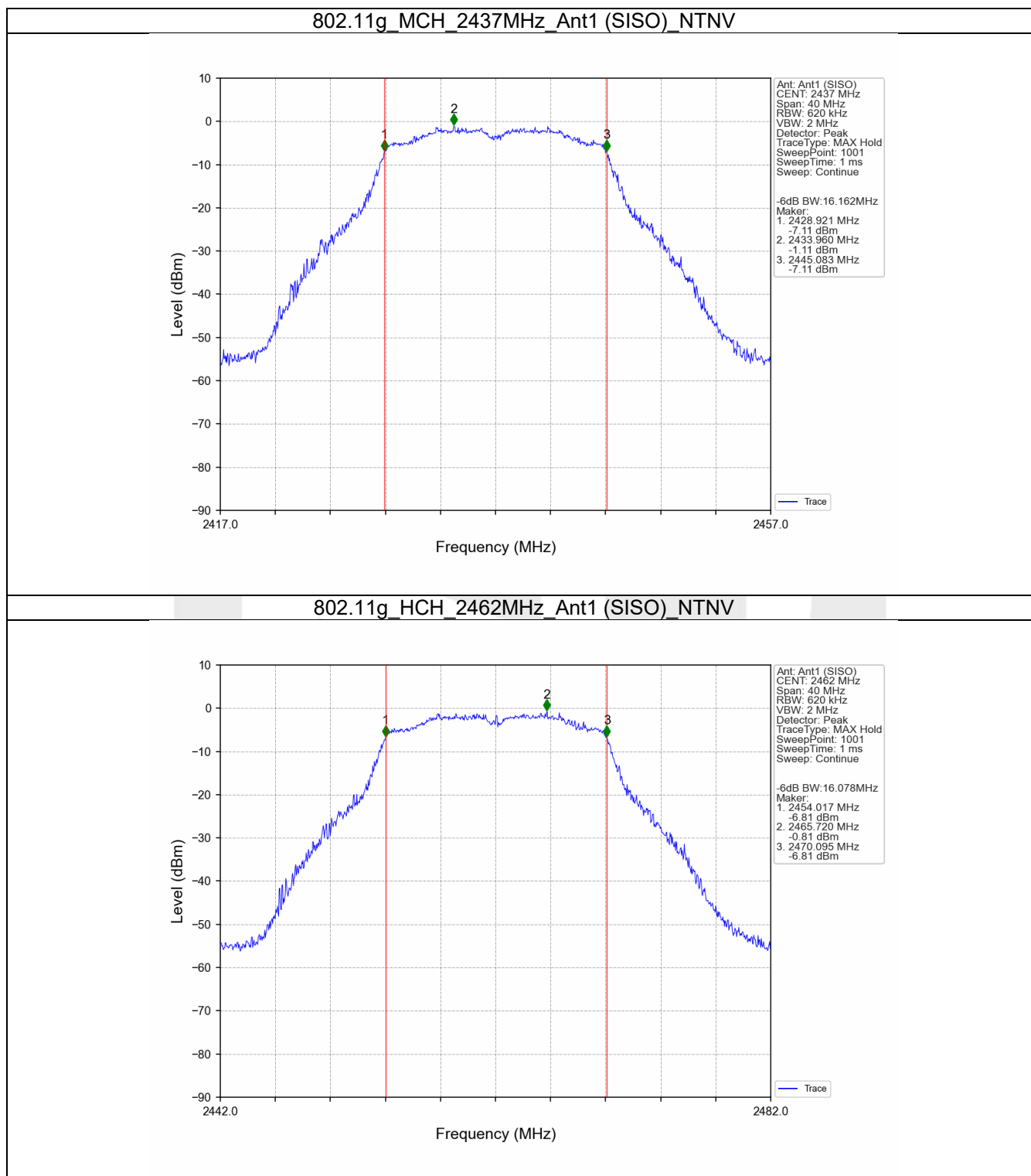


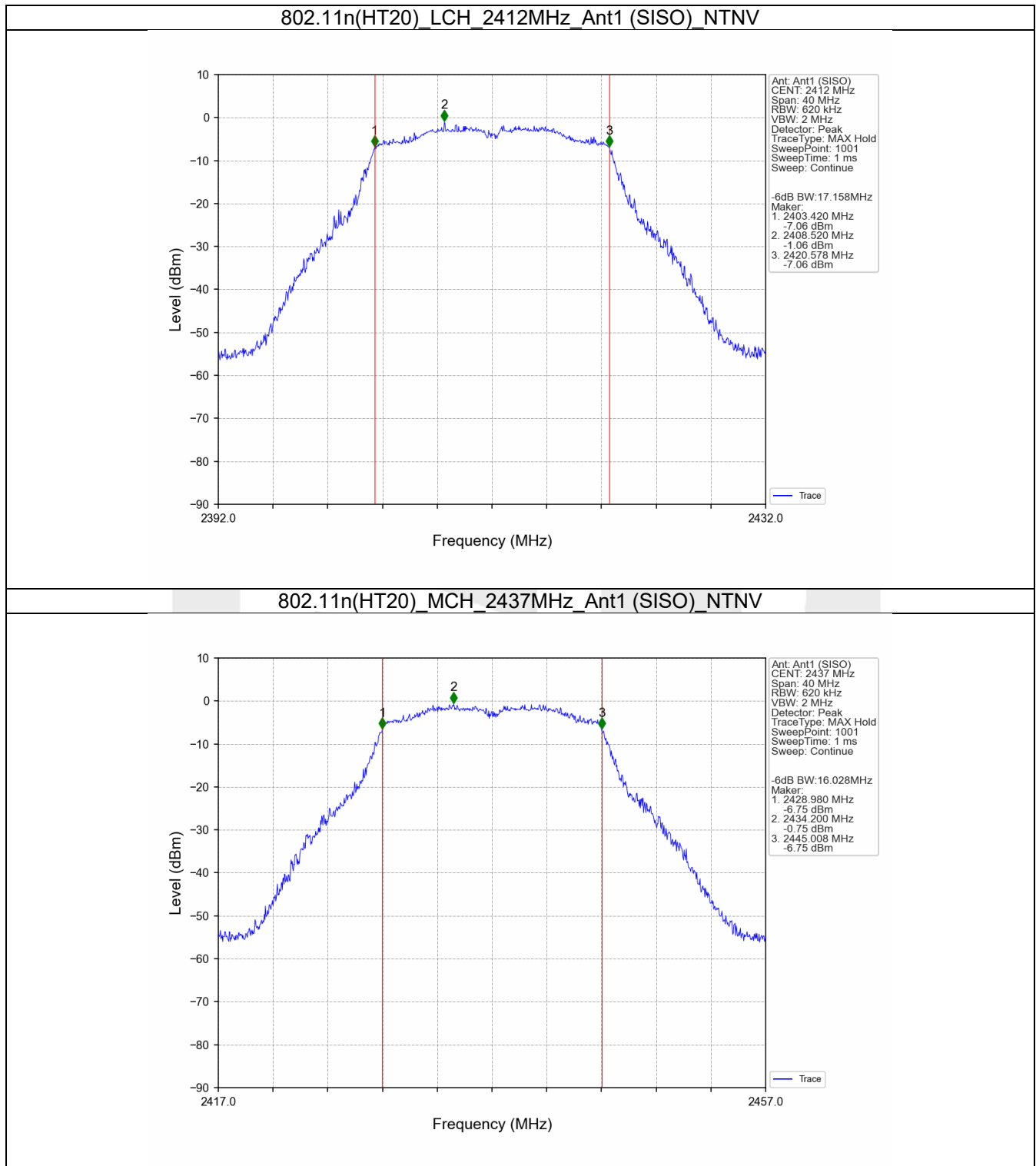


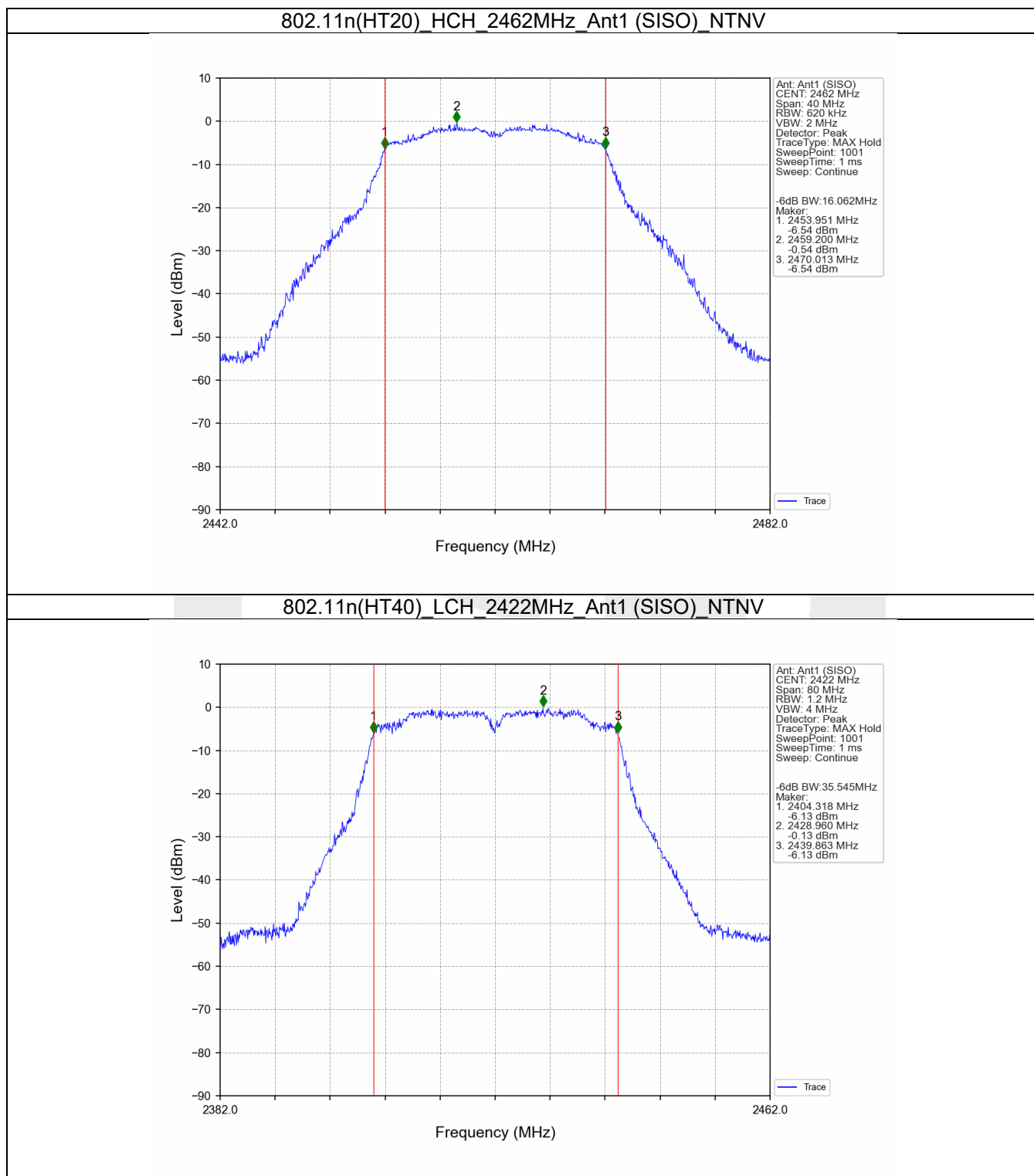
2.2.2 6dB BW

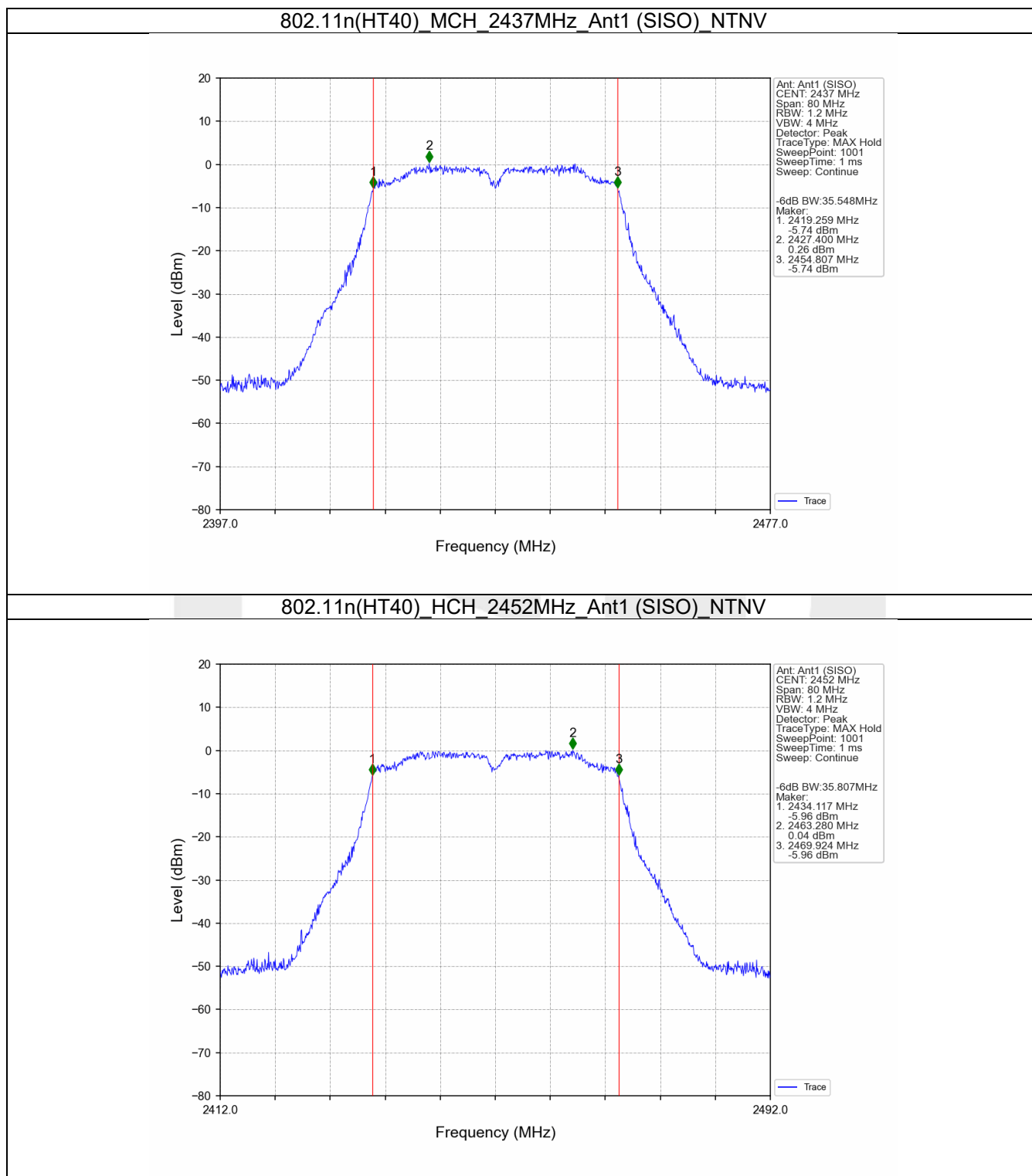












3. Maximum Conducted Output Power

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	9.55	<=30	Pass
		2437	11.31	<=30	Pass
		2462	11.94	<=30	Pass
802.11g	SISO	2412	11.31	<=30	Pass
		2437	11.63	<=30	Pass
		2462	11.78	<=30	Pass
802.11n (HT20)	SISO	2412	11.15	<=30	Pass
		2437	12.07	<=30	Pass
		2462	11.92	<=30	Pass
802.11n (HT40)	SISO	2422	11.91	<=30	Pass
		2437	11.99	<=30	Pass
		2452	12.19	<=30	Pass

4. Maximum Power Spectral Density

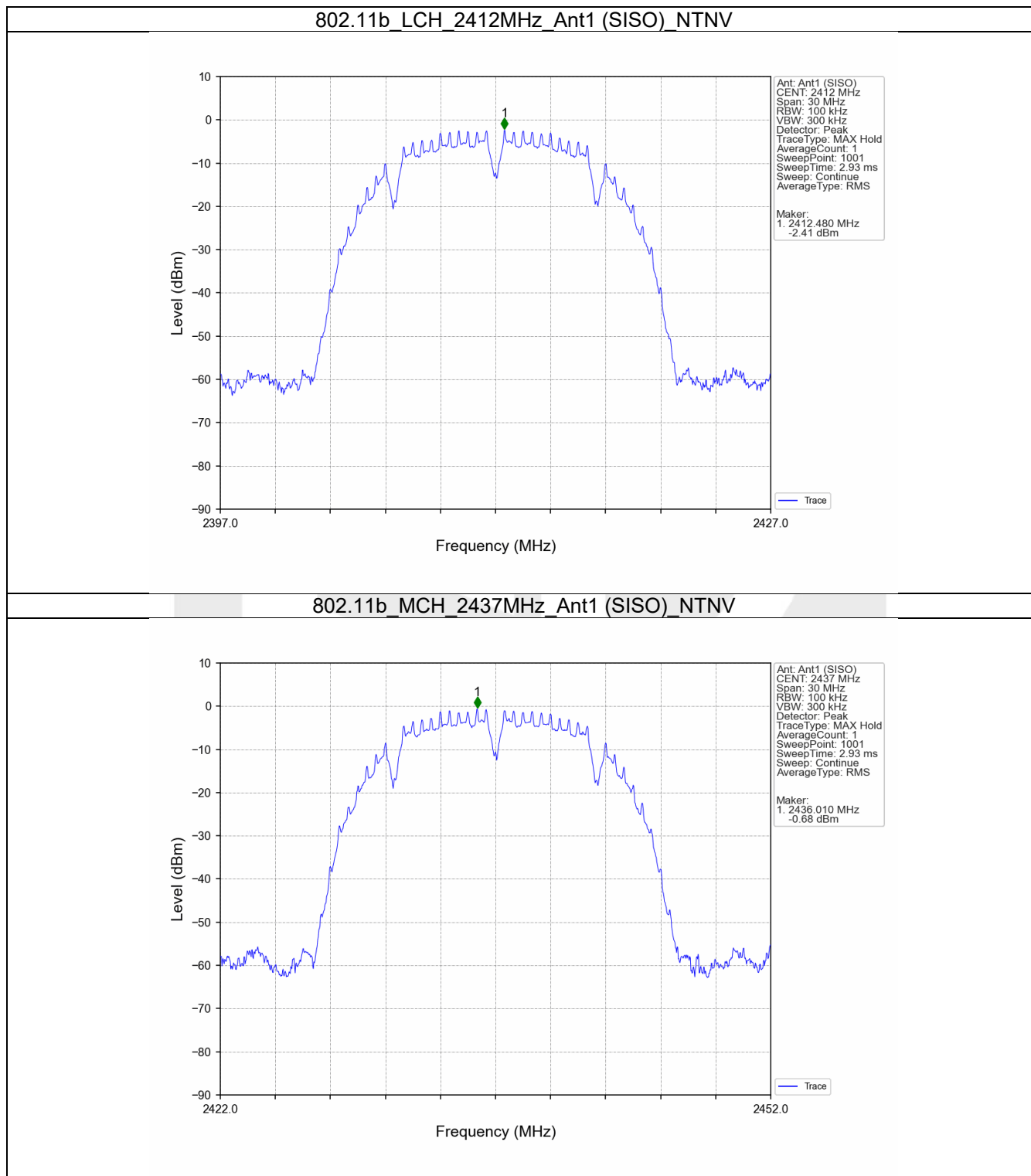
4.1 Test Result

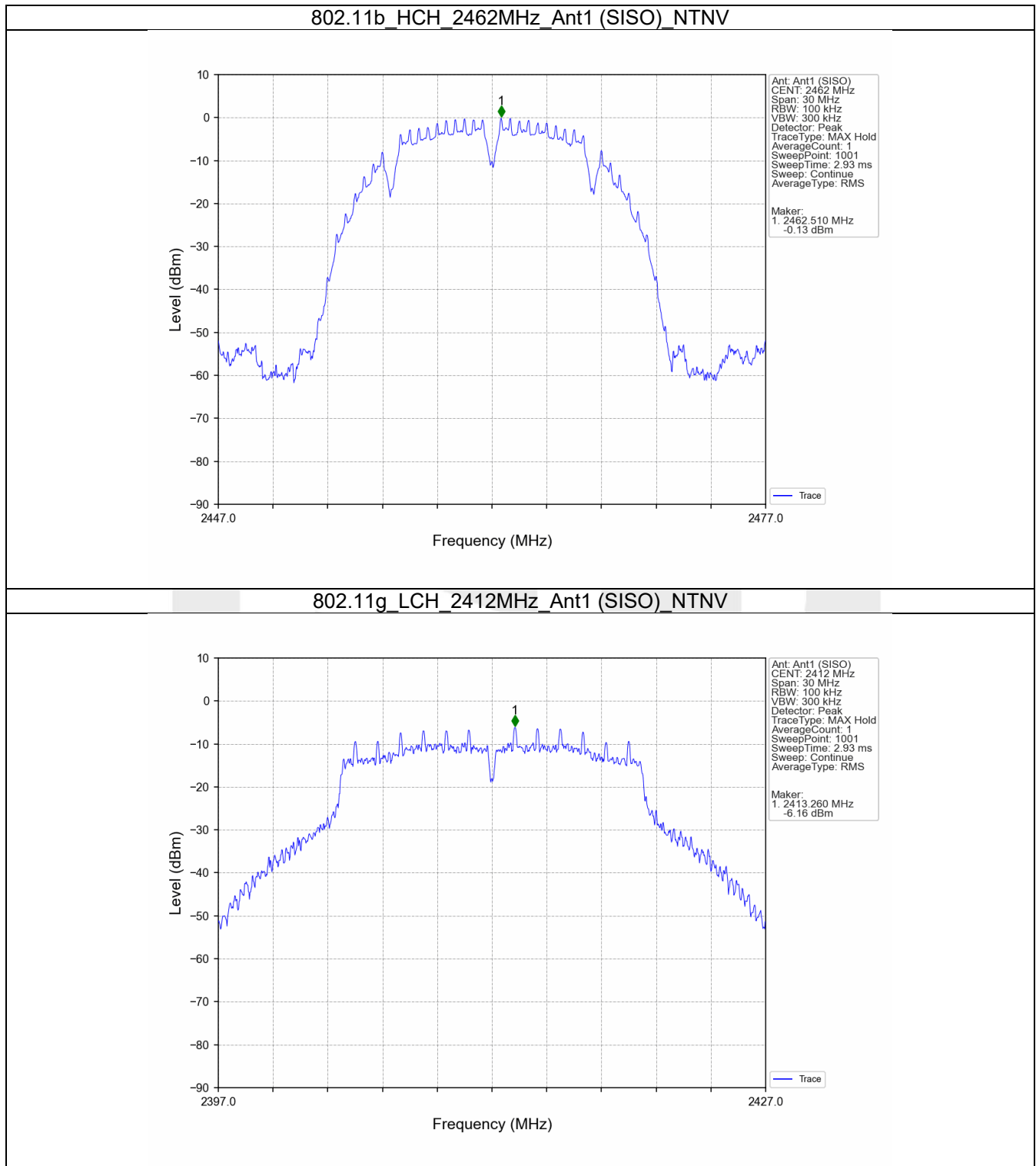
4.1.1 PSD

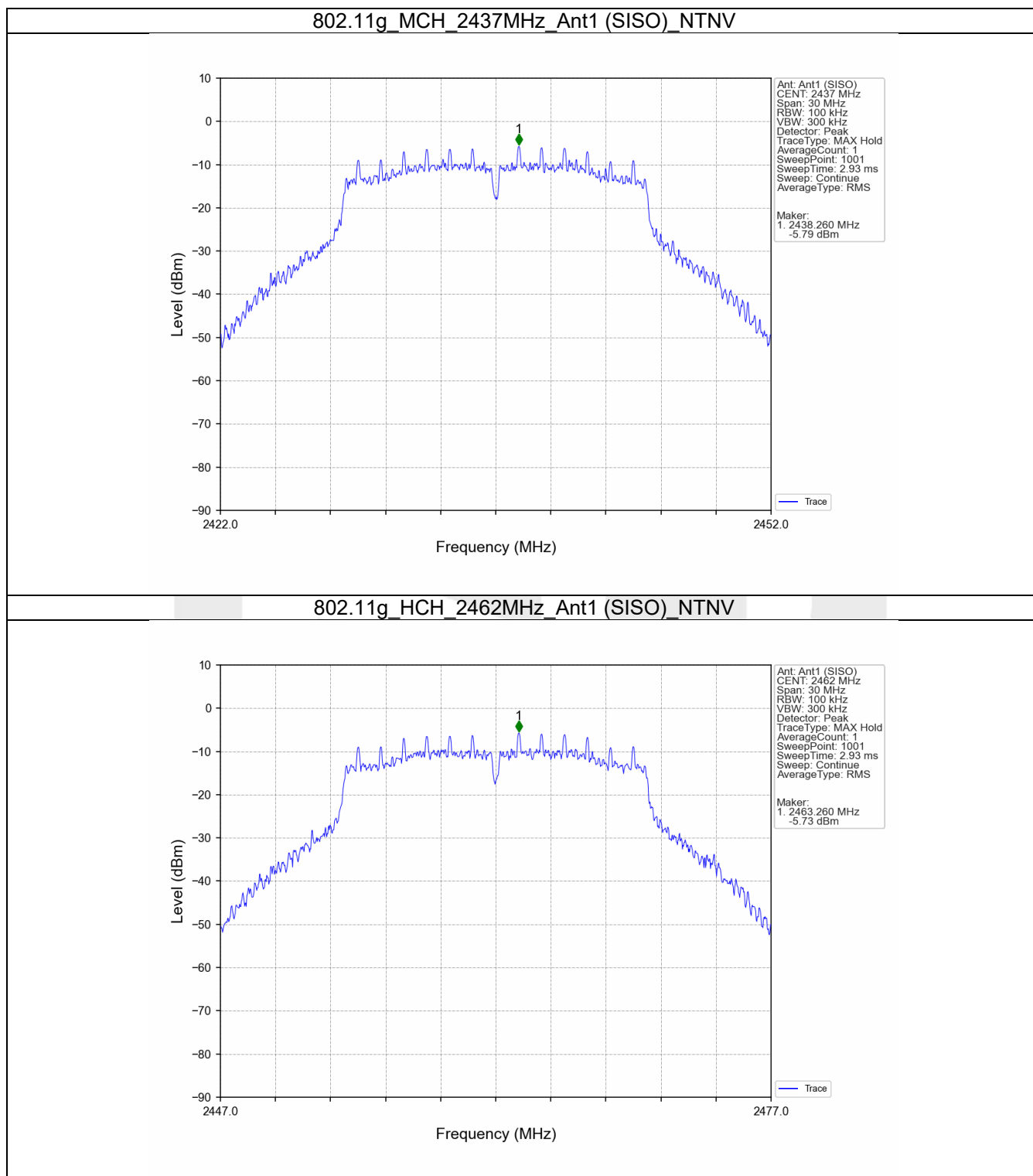
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-2.41	<=8	Pass
		2437	-0.68	<=8	Pass
		2462	-0.13	<=8	Pass
802.11g	SISO	2412	-6.16	<=8	Pass
		2437	-5.79	<=8	Pass
		2462	-5.73	<=8	Pass
802.11n (HT20)	SISO	2412	-6.11	<=8	Pass
		2437	-5.41	<=8	Pass
		2462	-5.52	<=8	Pass
802.11n (HT40)	SISO	2422	-9.10	<=8	Pass
		2437	-9.03	<=8	Pass
		2452	-8.94	<=8	Pass

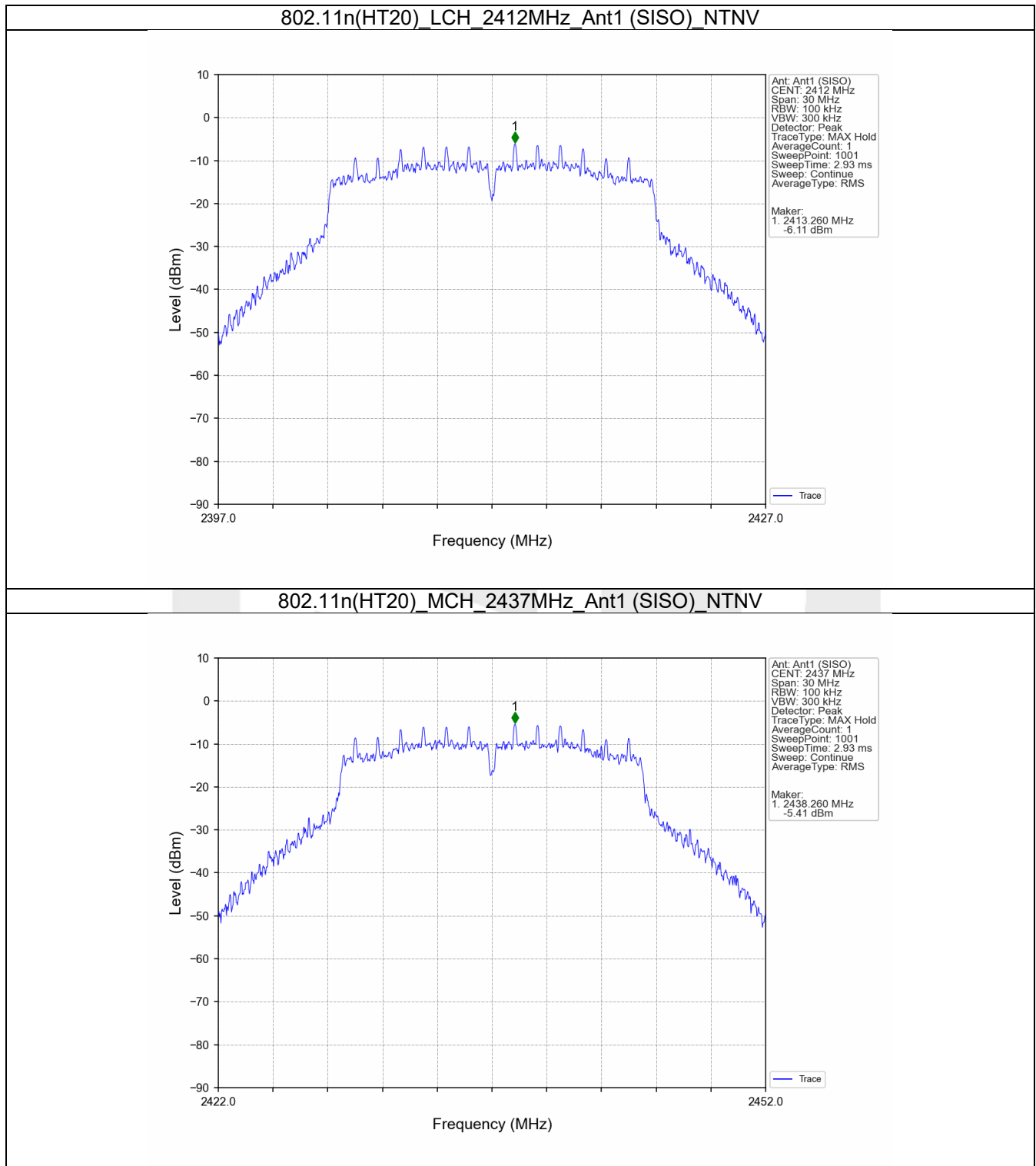
4.2 Test Graph

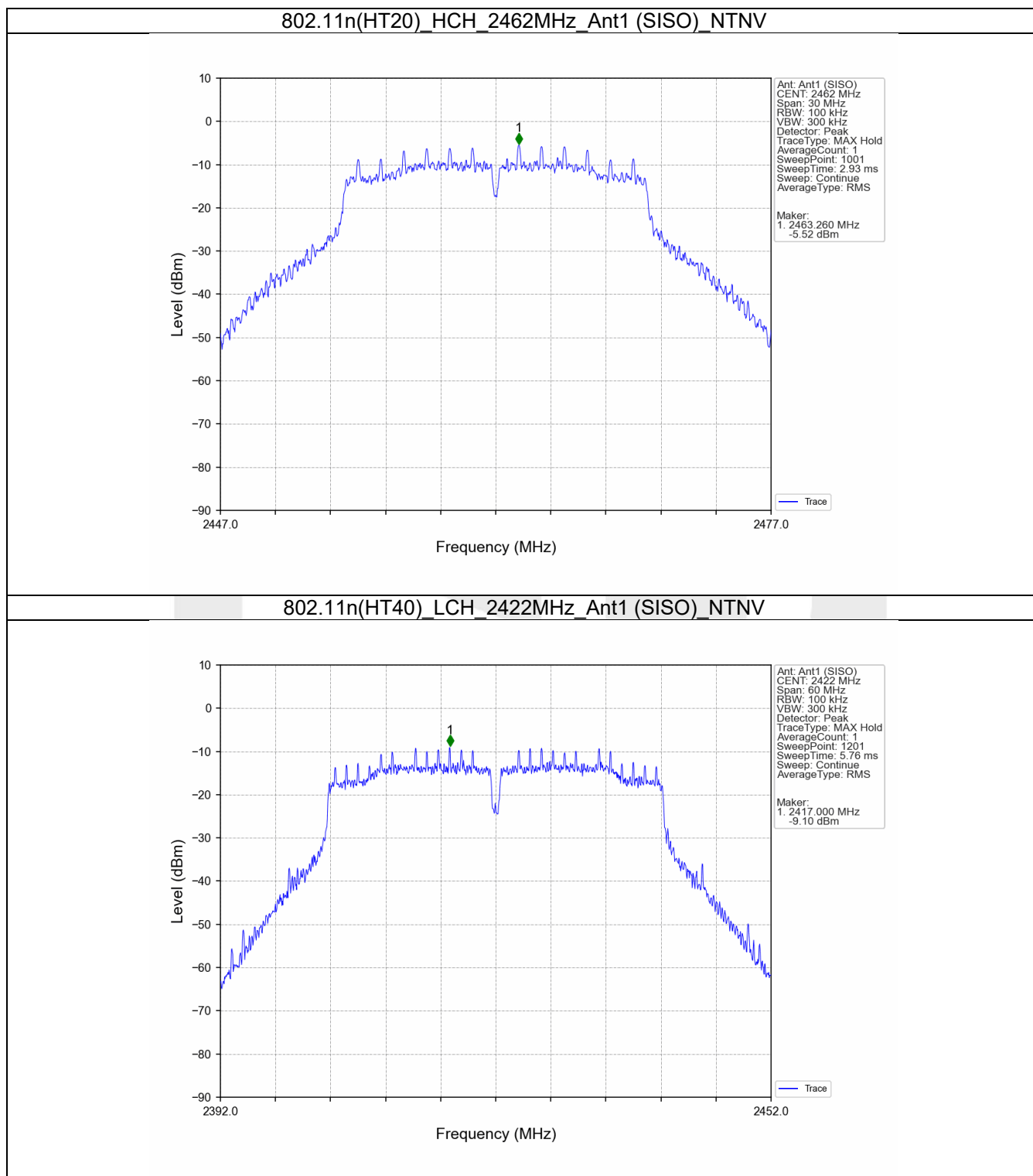
4.2.1 PSD

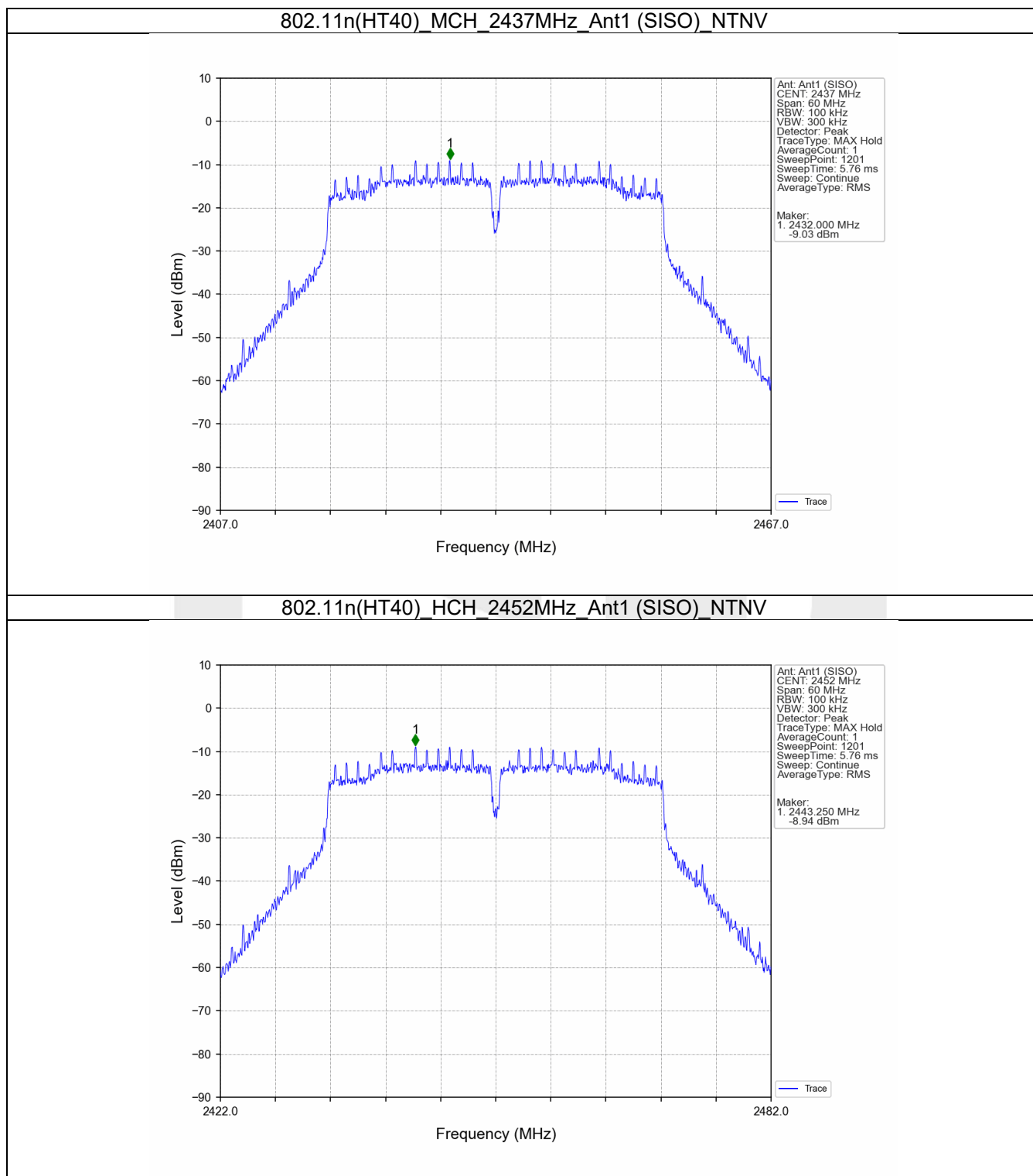












5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-2.31
		2437	1	-0.70
		2462	1	-0.24
802.11g	SISO	2412	1	-6.16
		2437	1	-5.78
		2462	1	-5.62
802.11n (HT20)	SISO	2412	1	-6.06
		2437	1	-5.43
		2462	1	-5.63
802.11n (HT40)	SISO	2422	1	-9.11
		2437	1	-8.92
		2452	1	-8.91

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

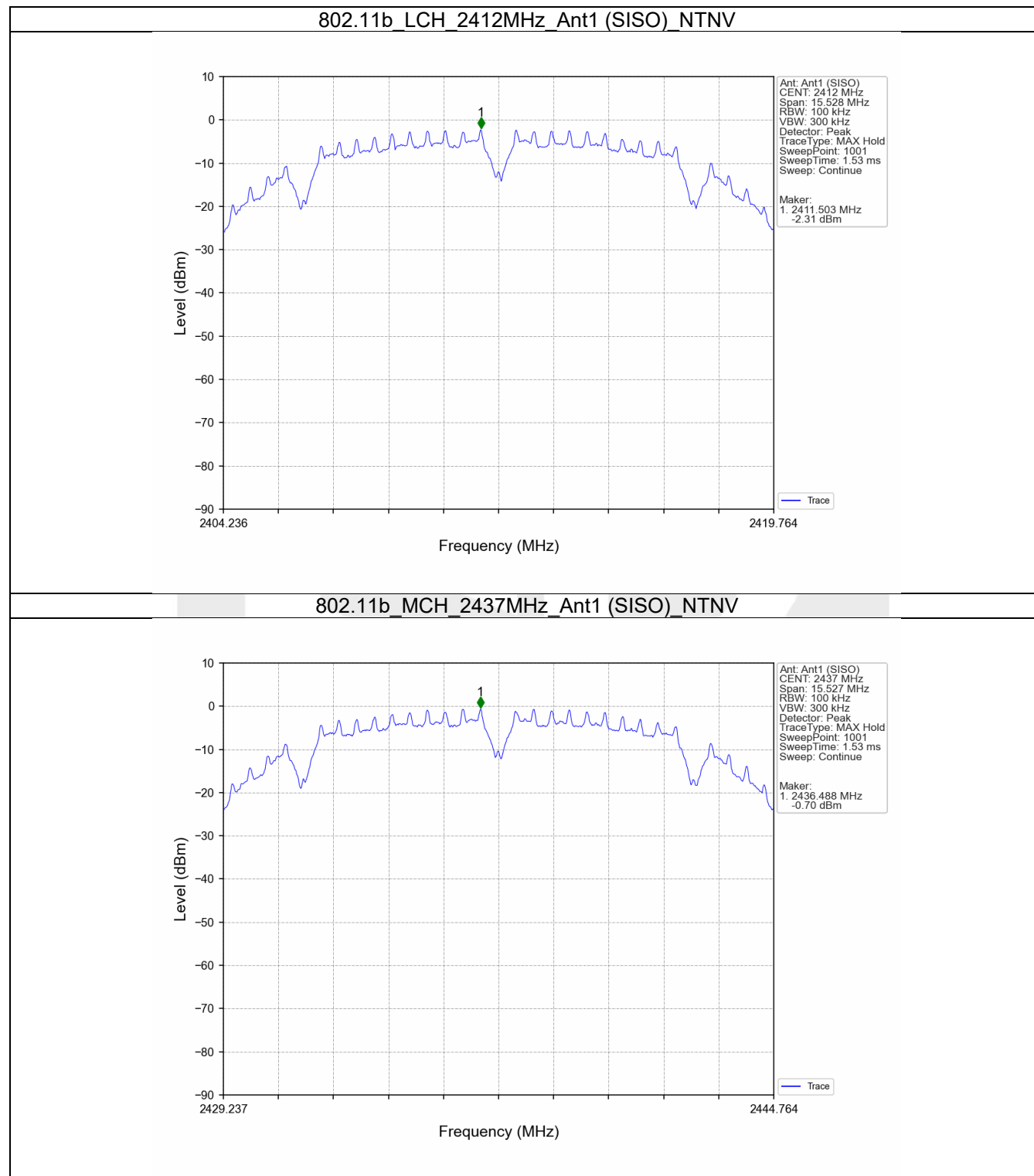
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-0.24	-20.24	Pass
		2437	1	-0.24	-20.24	Pass
		2462	1	-0.24	-20.24	Pass
802.11g	SISO	2412	1	-5.62	-25.62	Pass
		2437	1	-5.62	-25.62	Pass
		2462	1	-5.62	-25.62	Pass
802.11n (HT20)	SISO	2412	1	-5.43	-25.43	Pass
		2437	1	-5.43	-25.43	Pass
		2462	1	-5.43	-25.43	Pass
802.11n (HT40)	SISO	2422	1	-8.91	-28.91	Pass
		2437	1	-8.91	-28.91	Pass
		2452	1	-8.91	-28.91	Pass

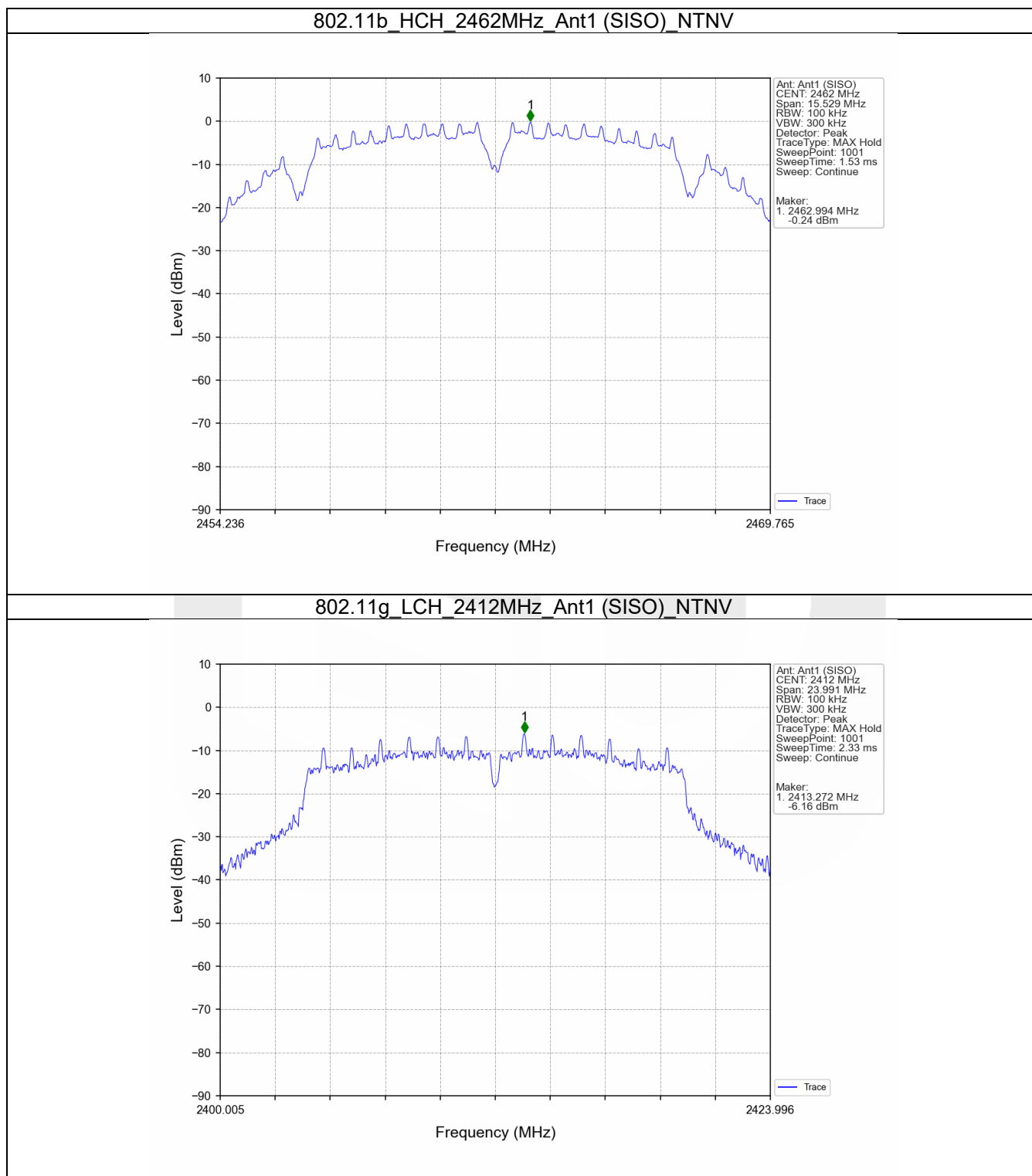
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

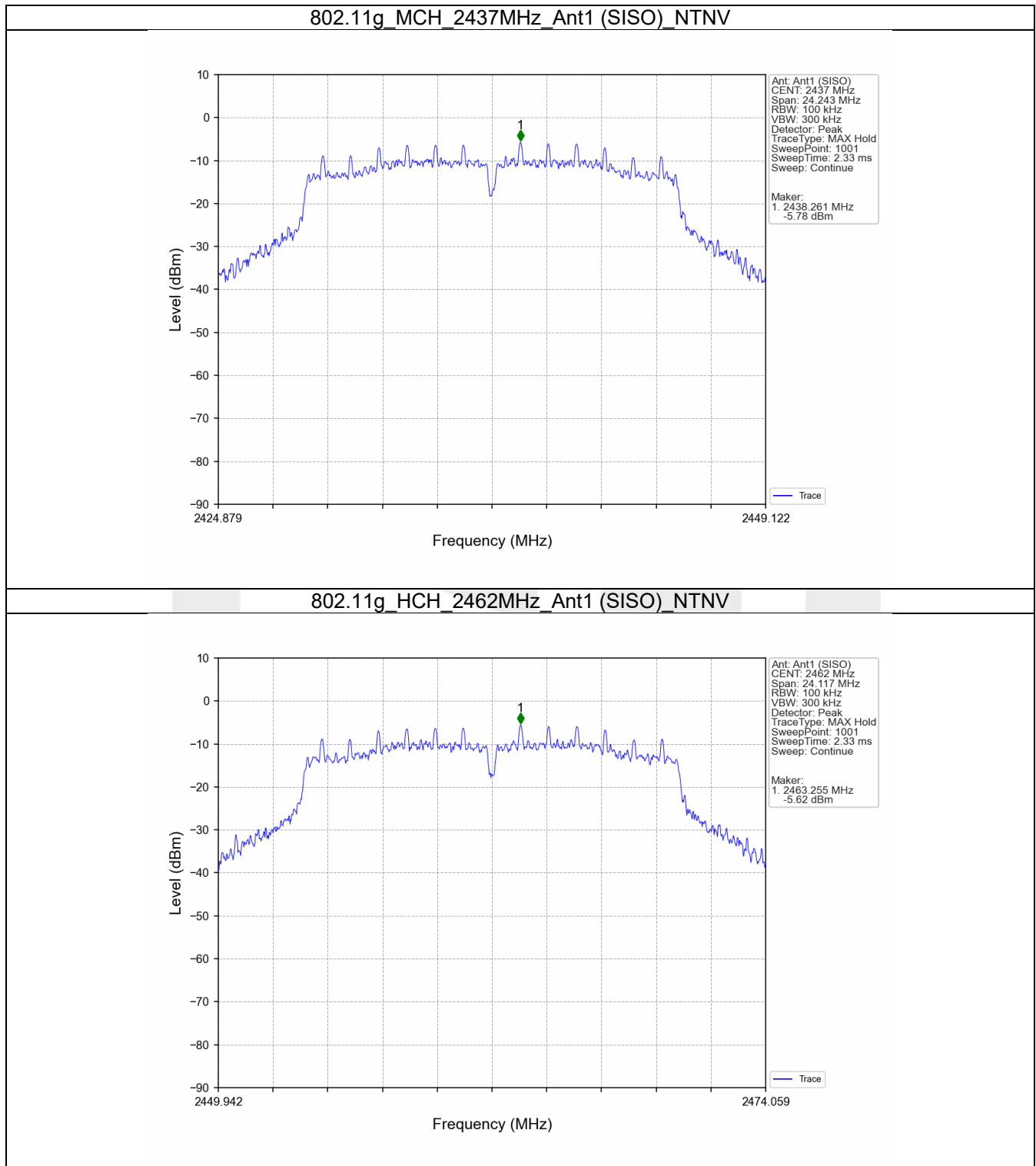
Note2: Worst case result -36.99dBm, much lower than the strictest limit (-9.11-20=-29.11dBm), it can be regards as pass.

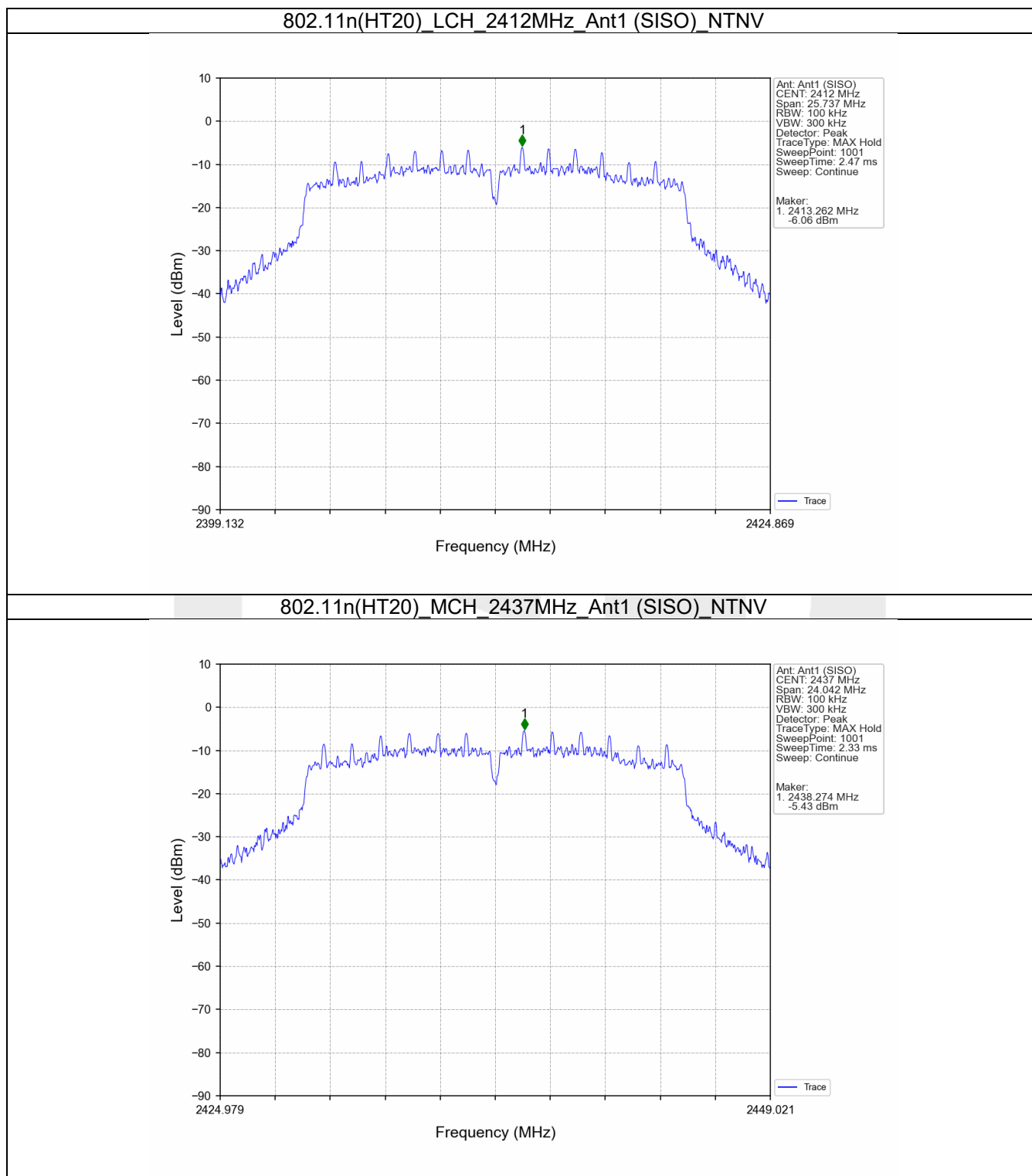
5.2 Test Graph

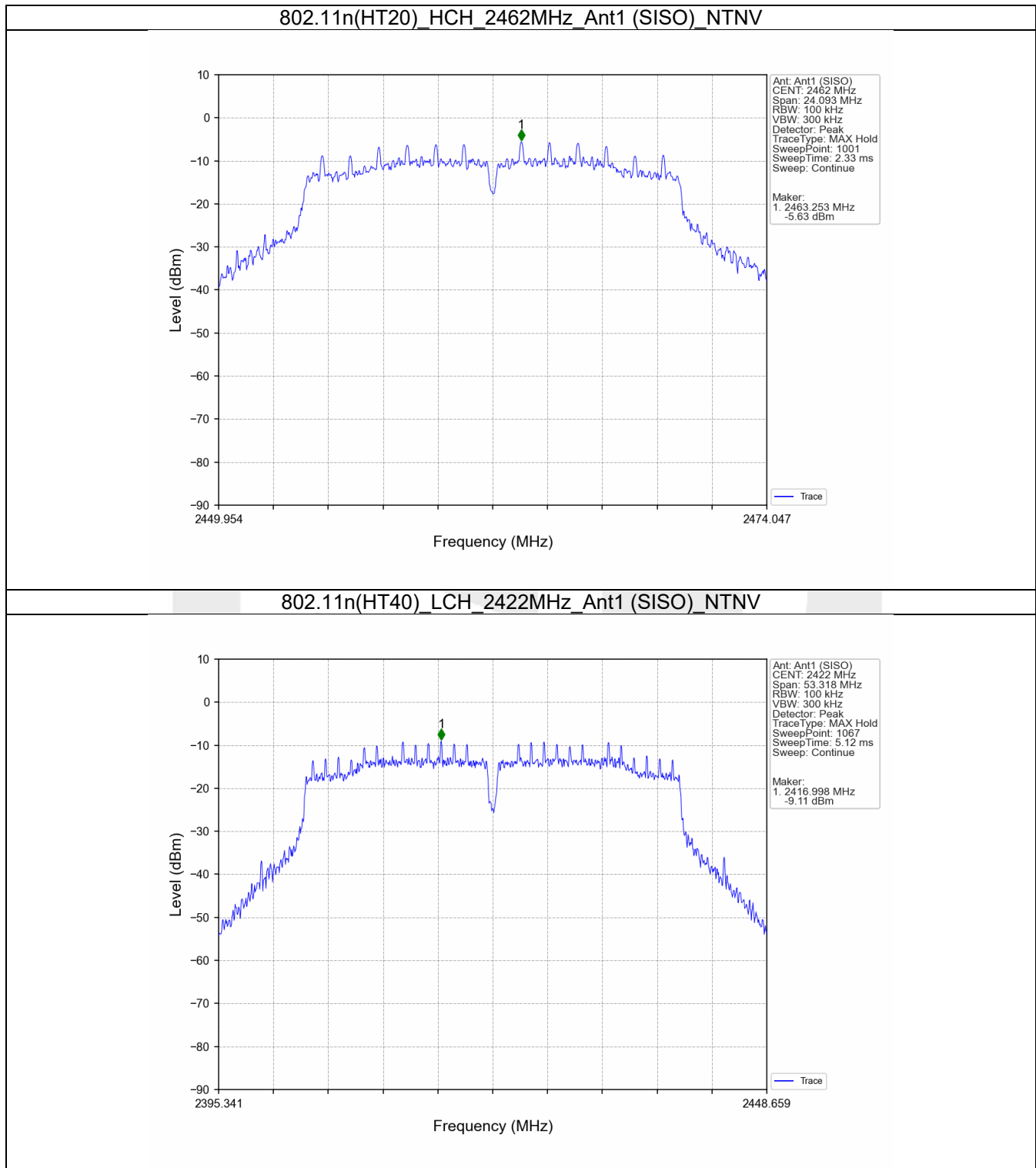
5.2.1 Ref

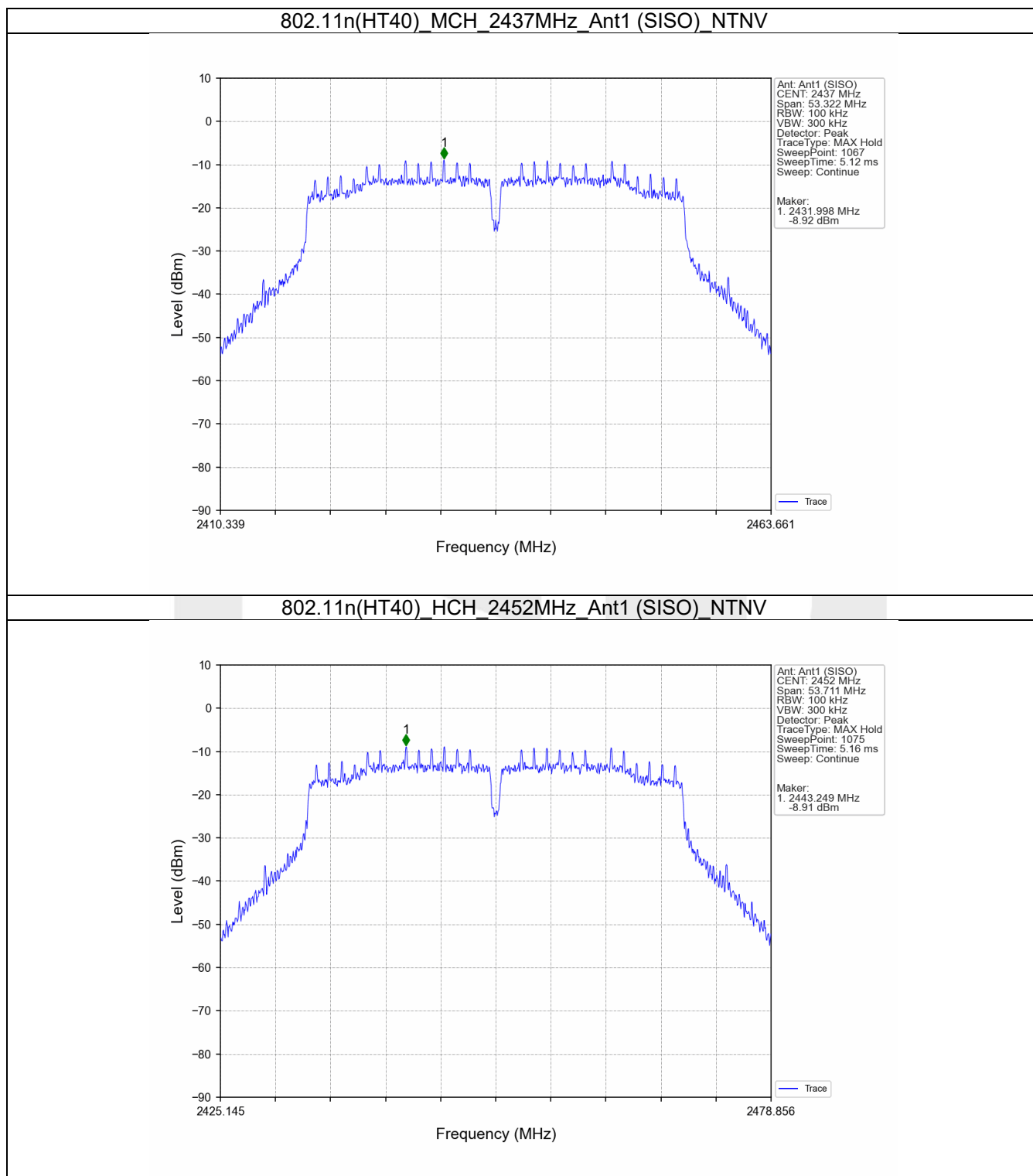




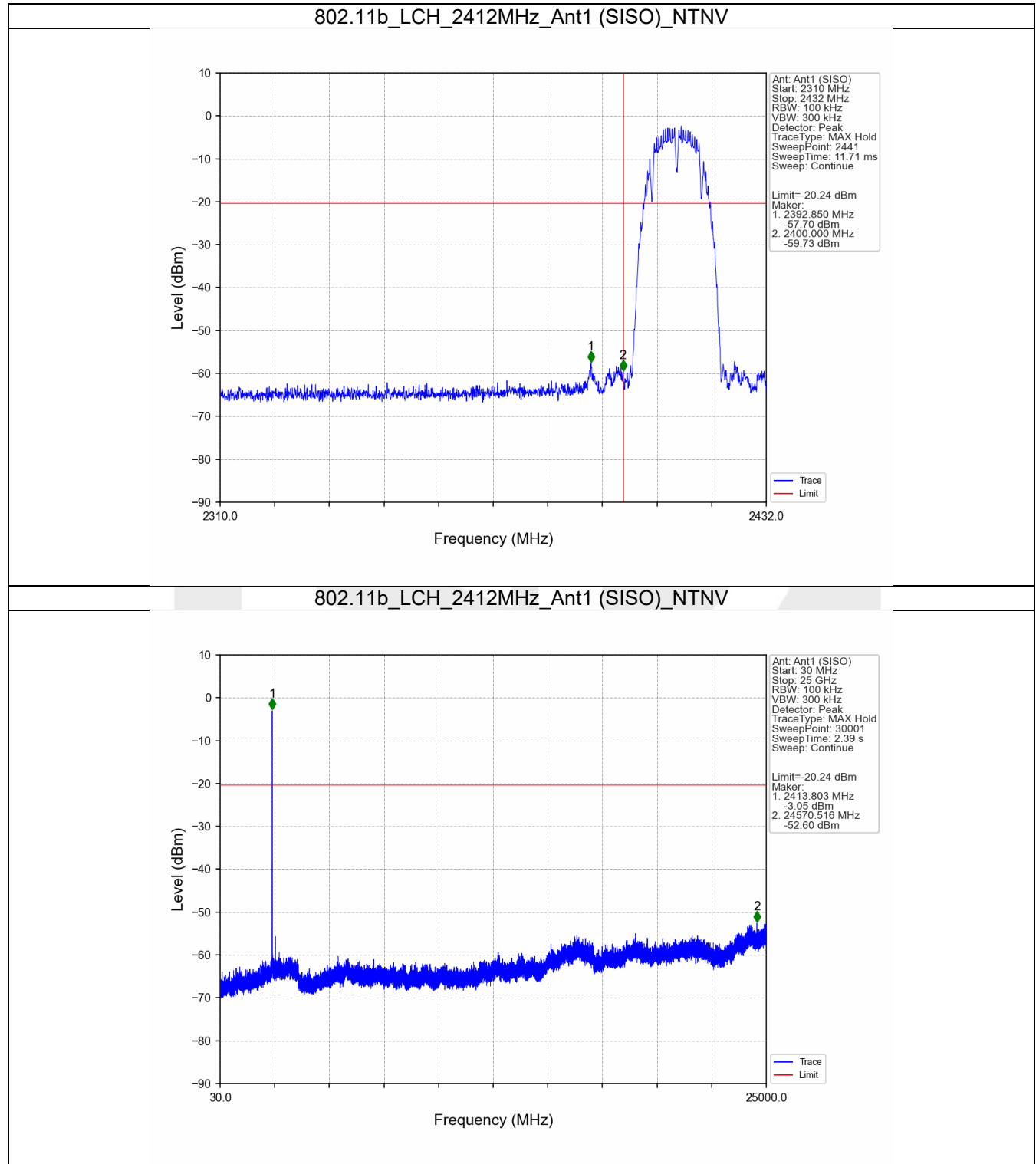


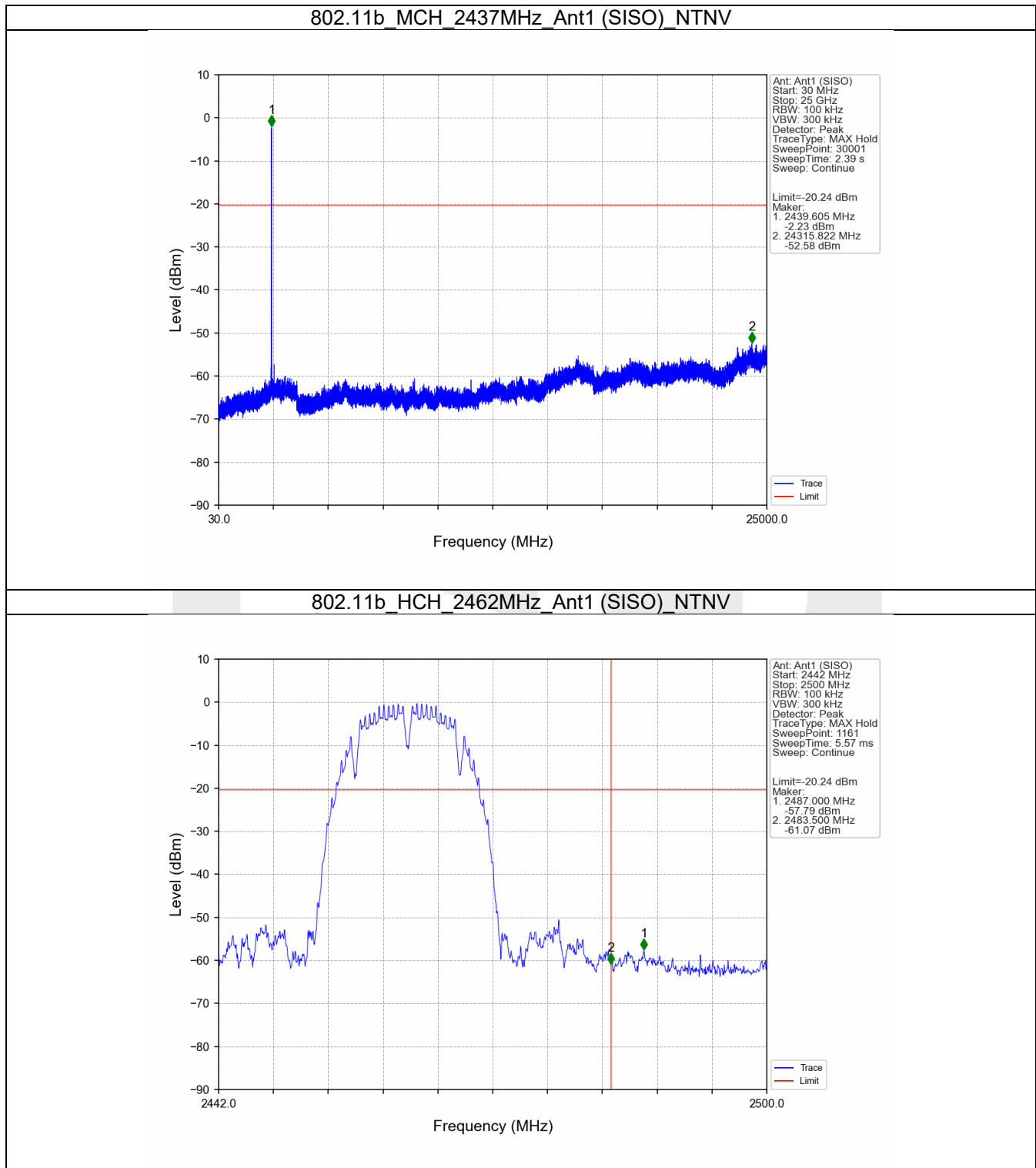


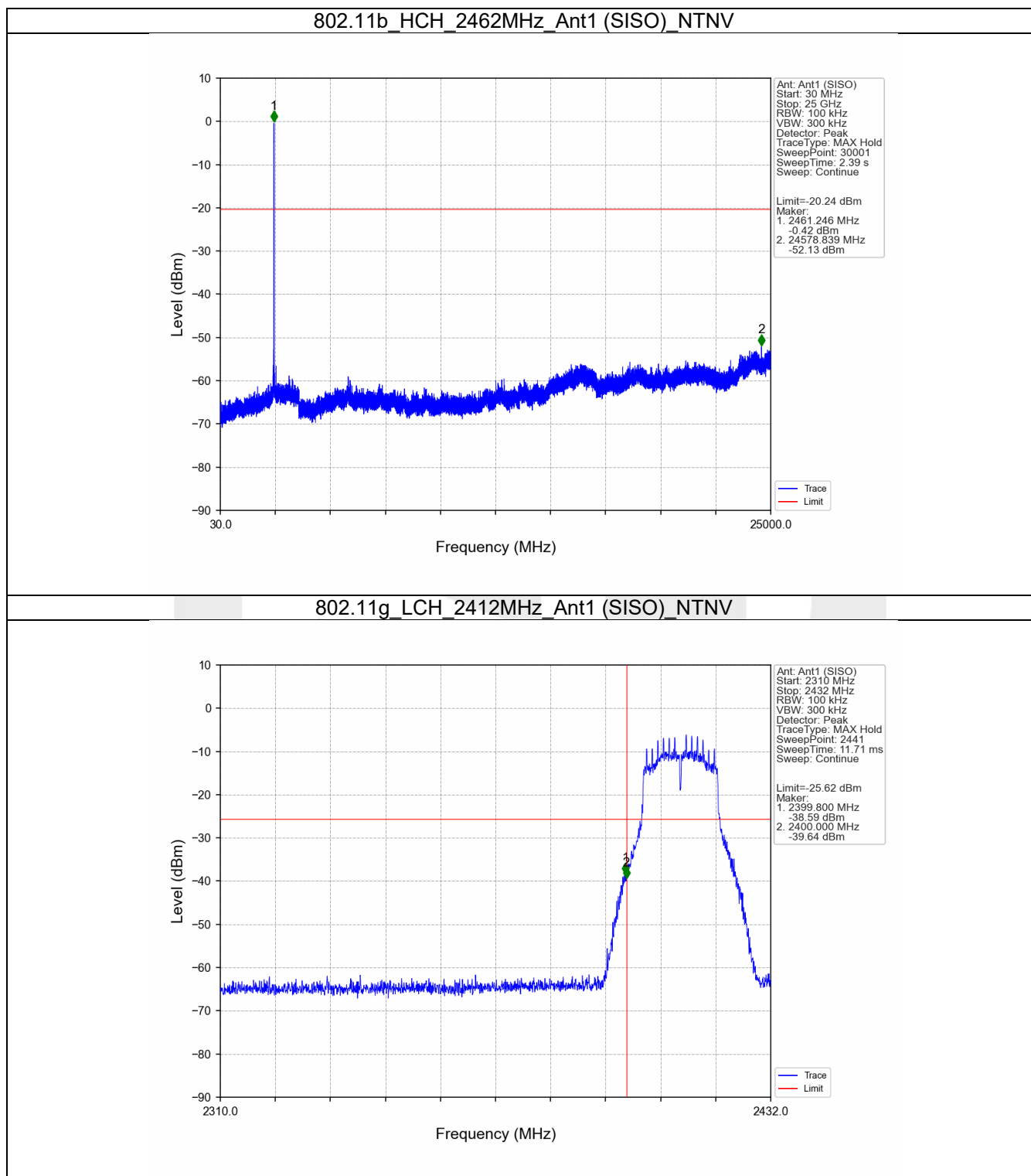


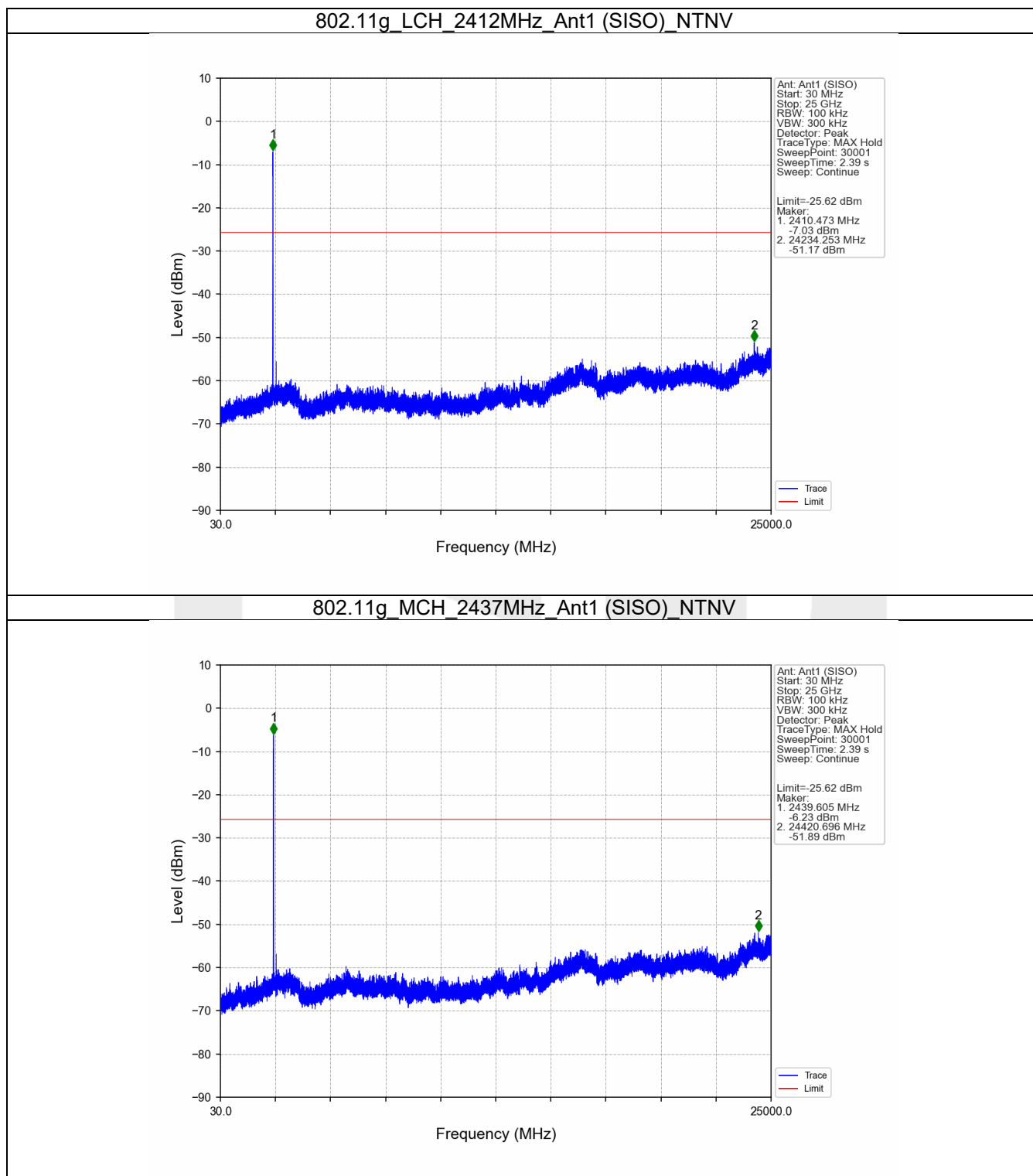


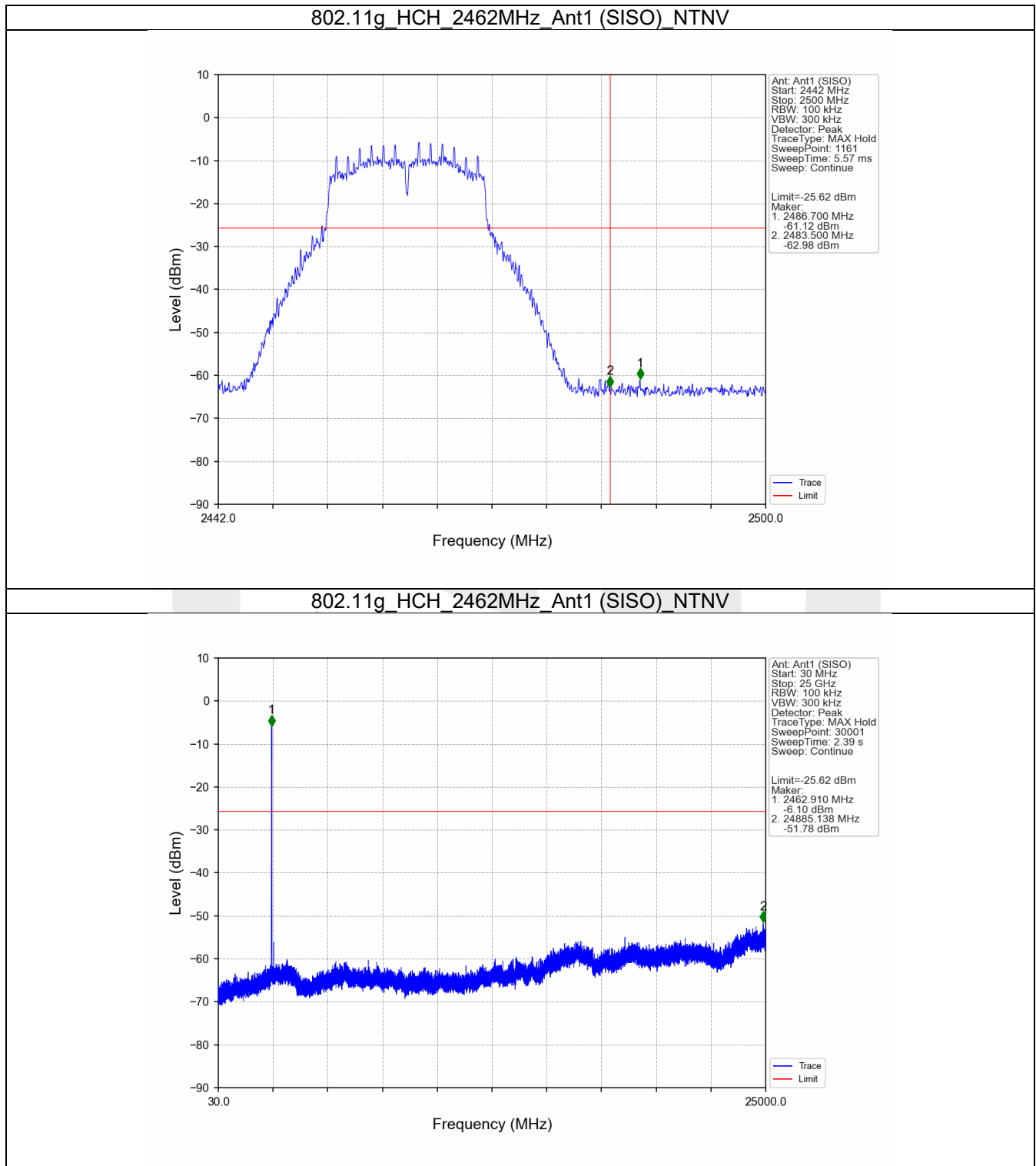
5.2.2 CSE

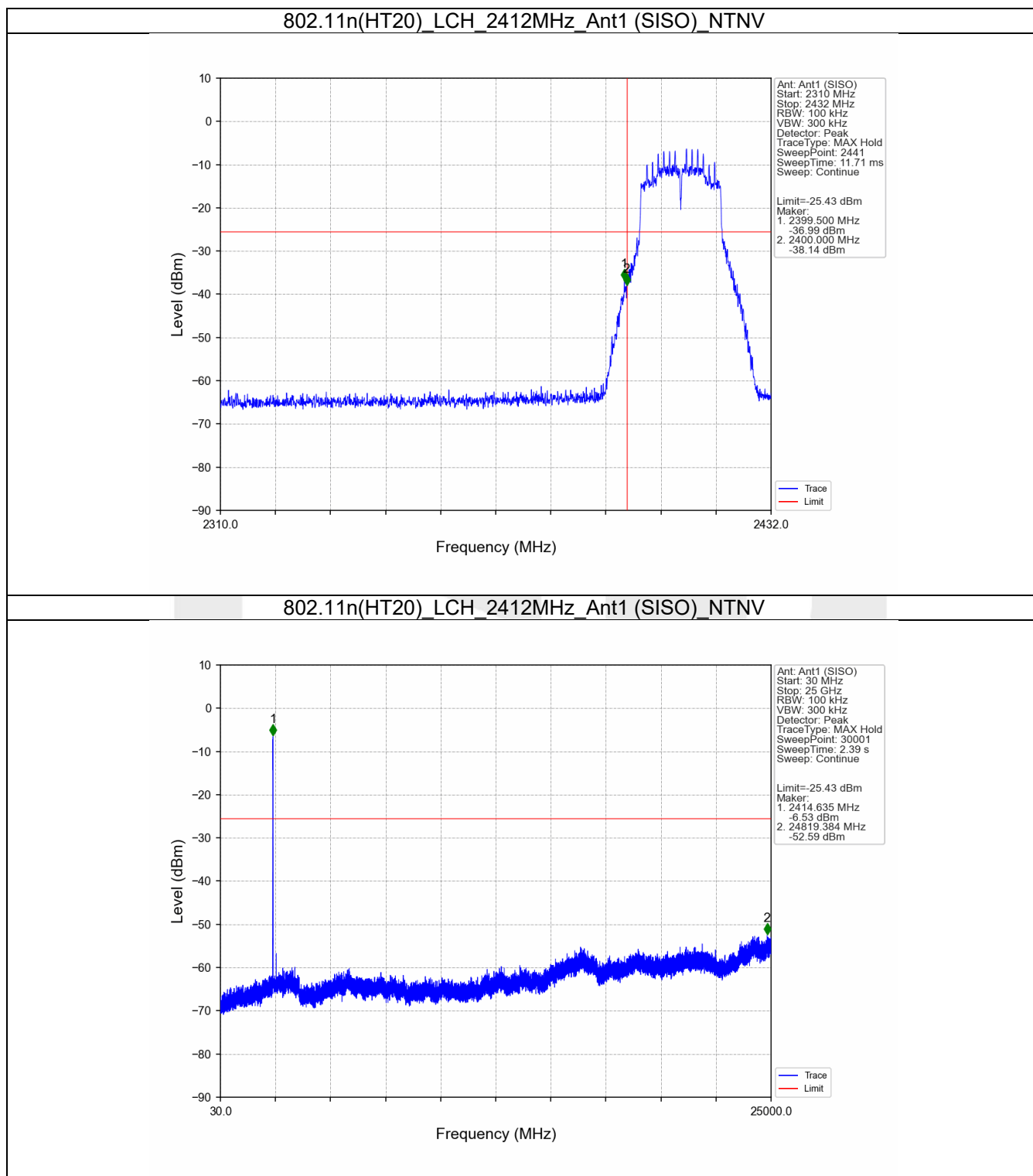


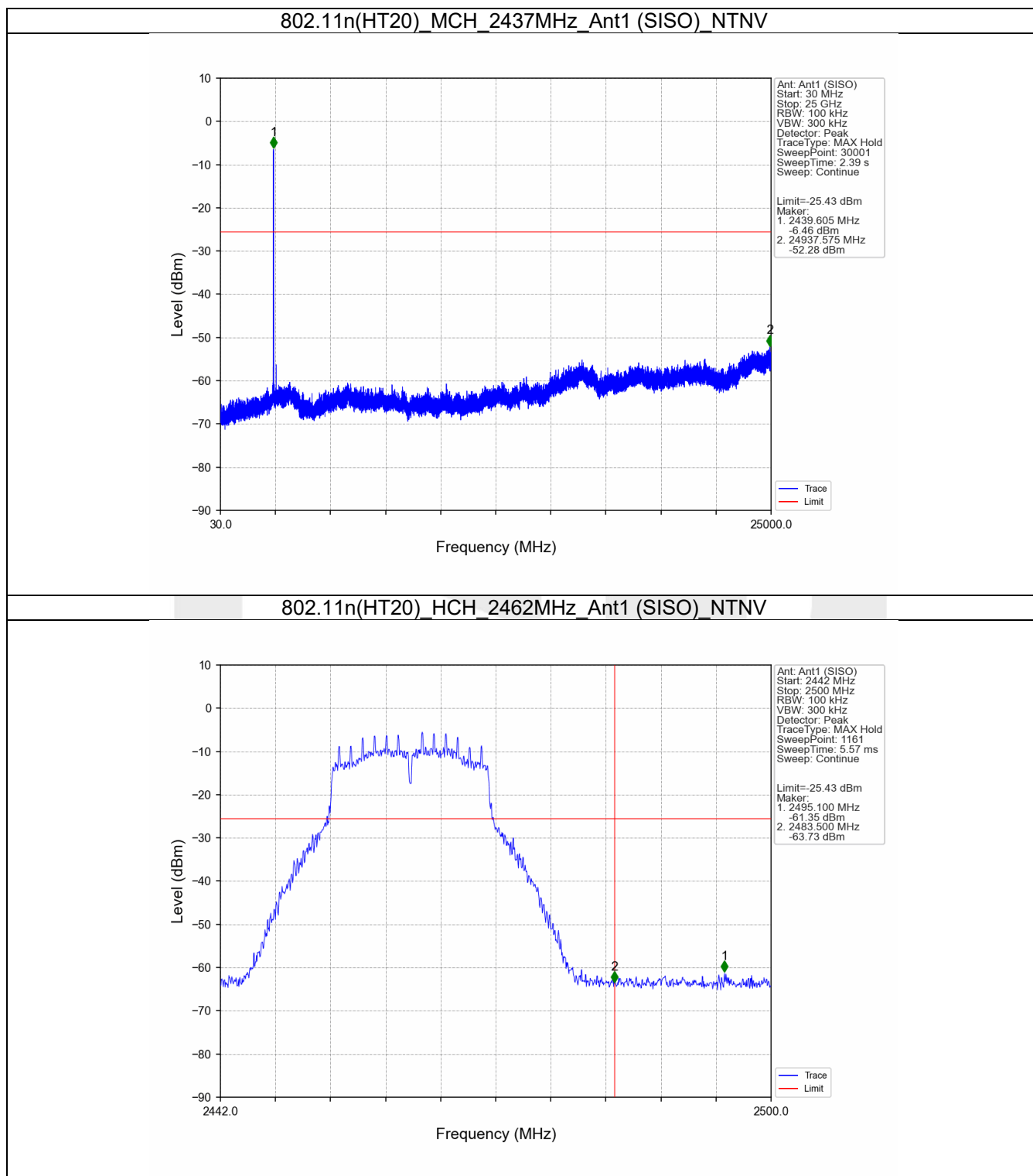


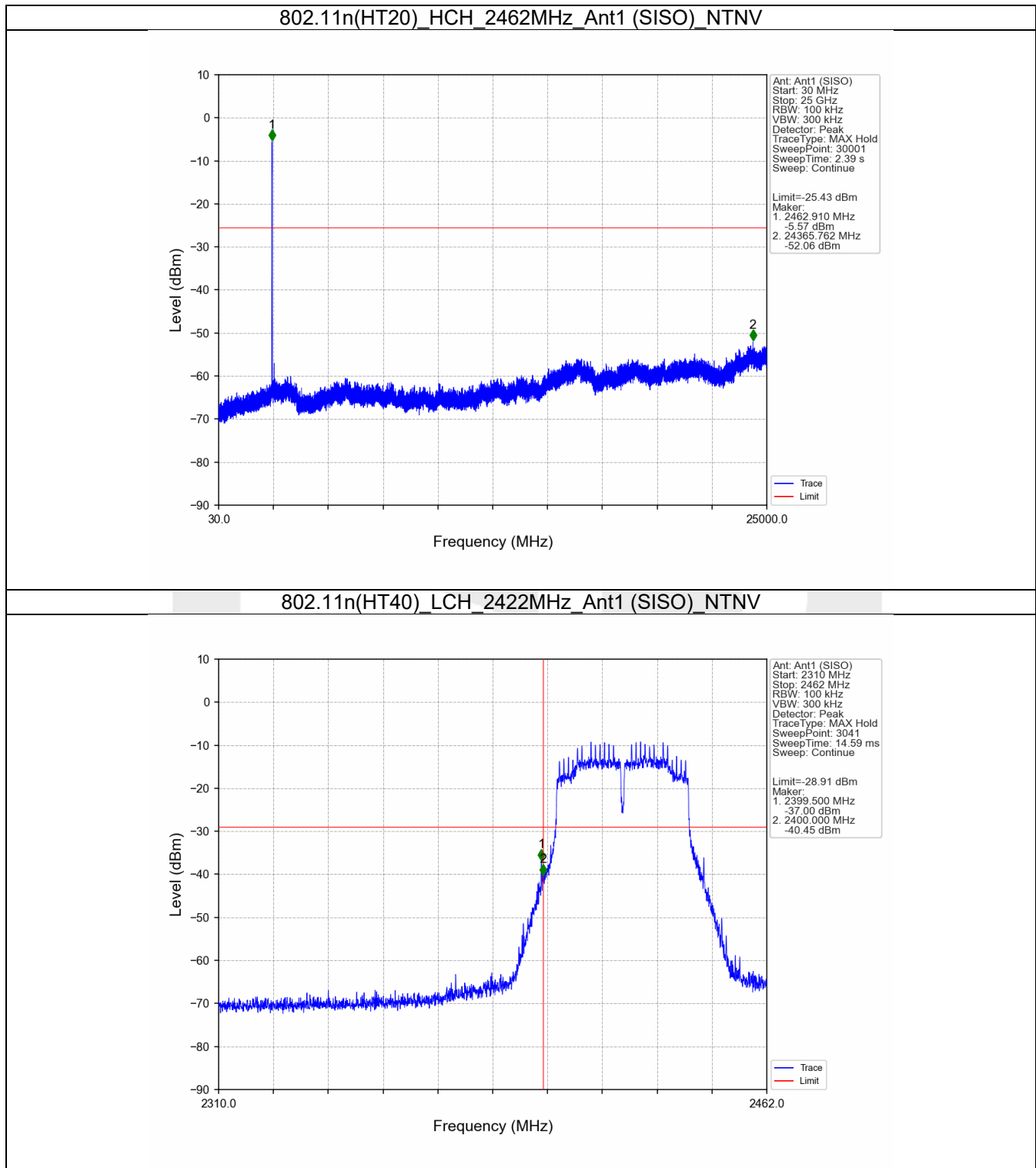


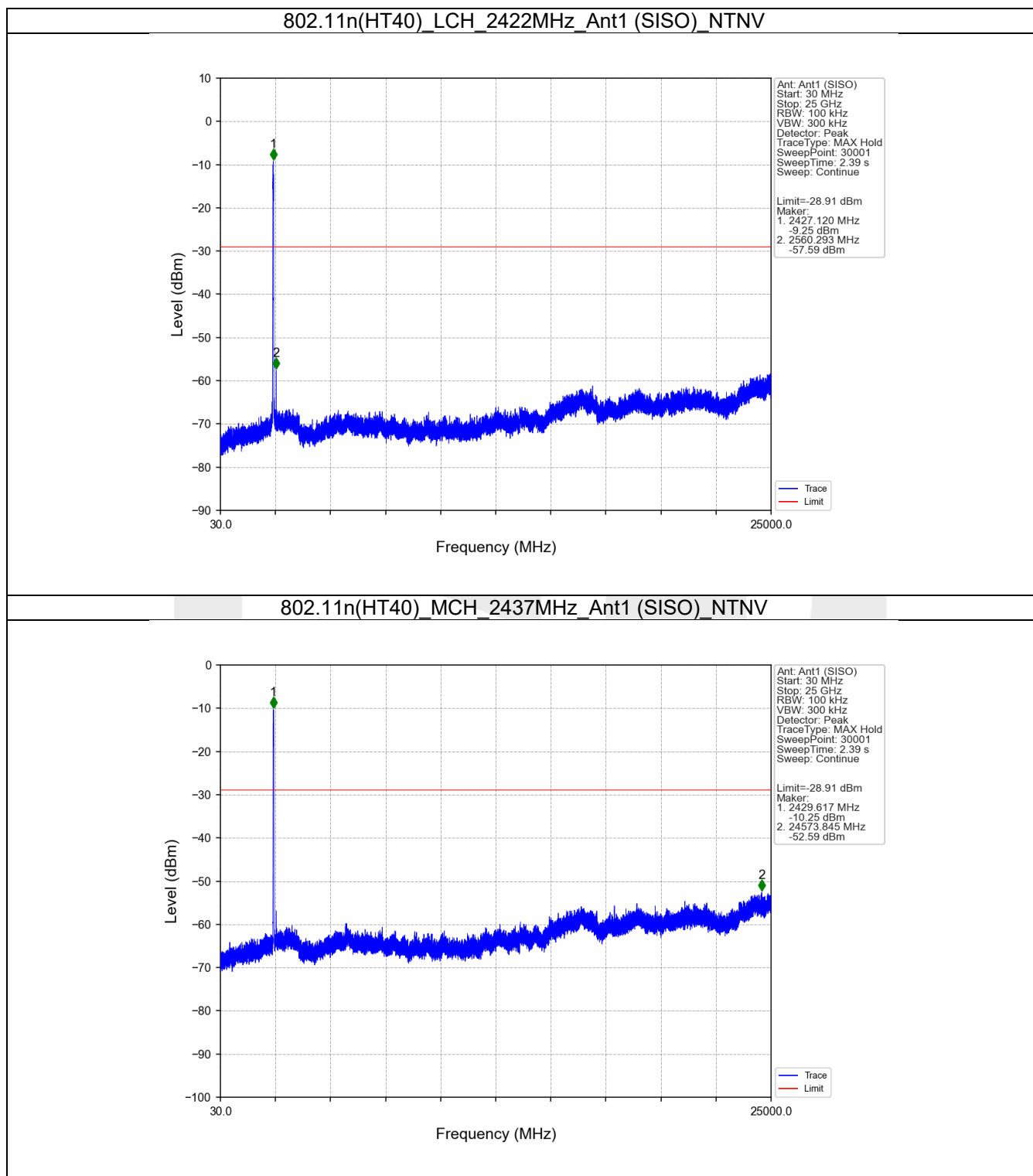


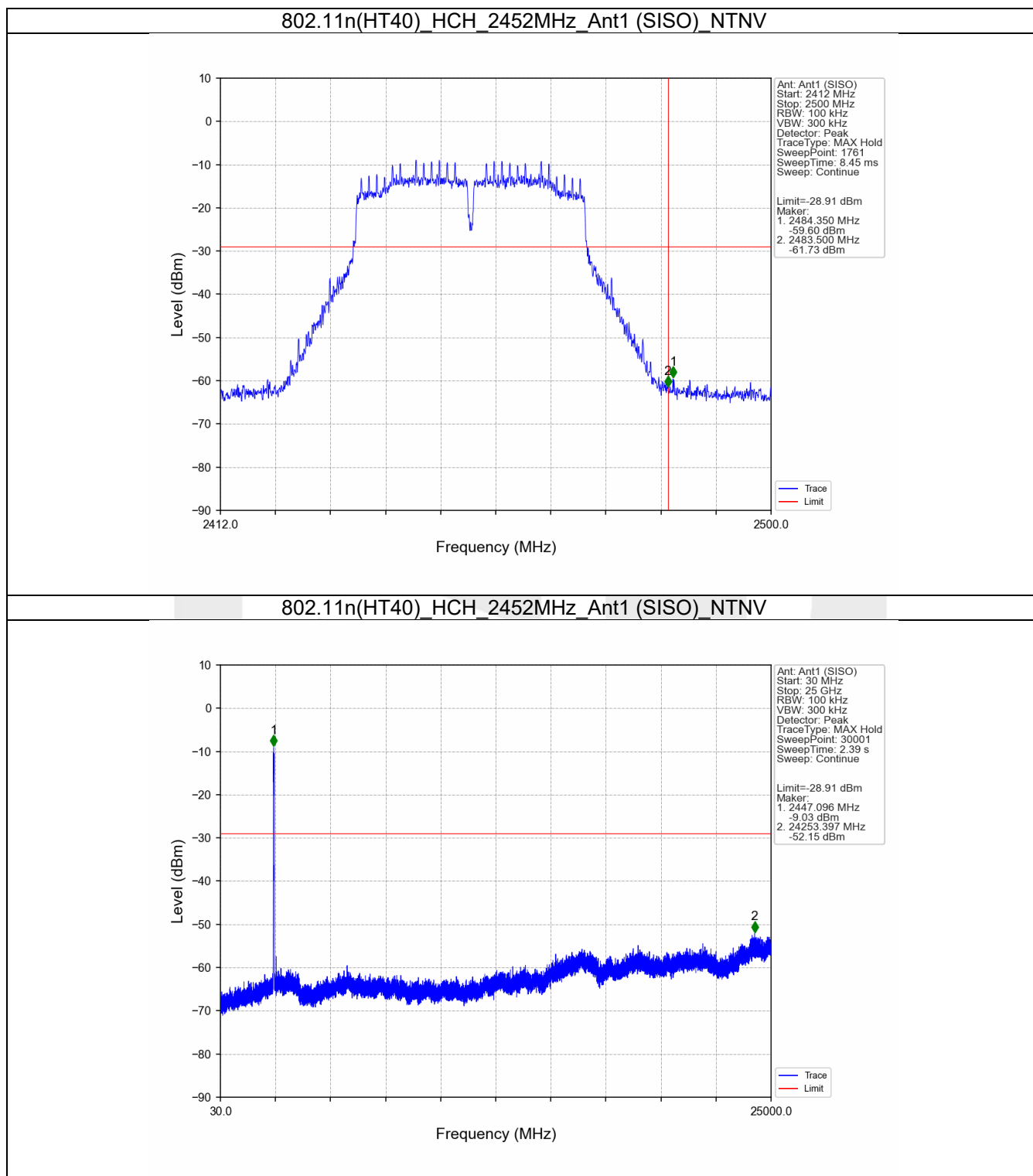












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