

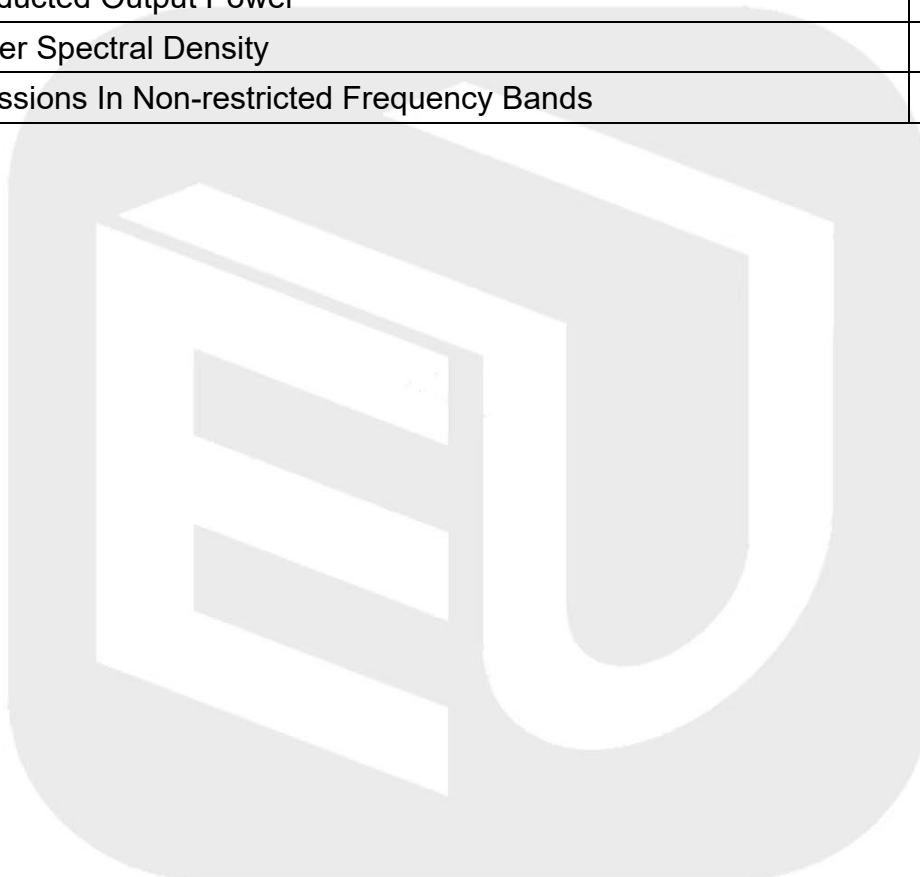
ANNEX E TEST DATA

For

Project No.:	8336EU012511W
Client:	Shenzhen Qianyan Technology LTD
Product Name:	Govee Outdoor Cylinder Pathway Lights
Model No.:	H3511
FCC ID:	2A7VD-H3511
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2026-01-13

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

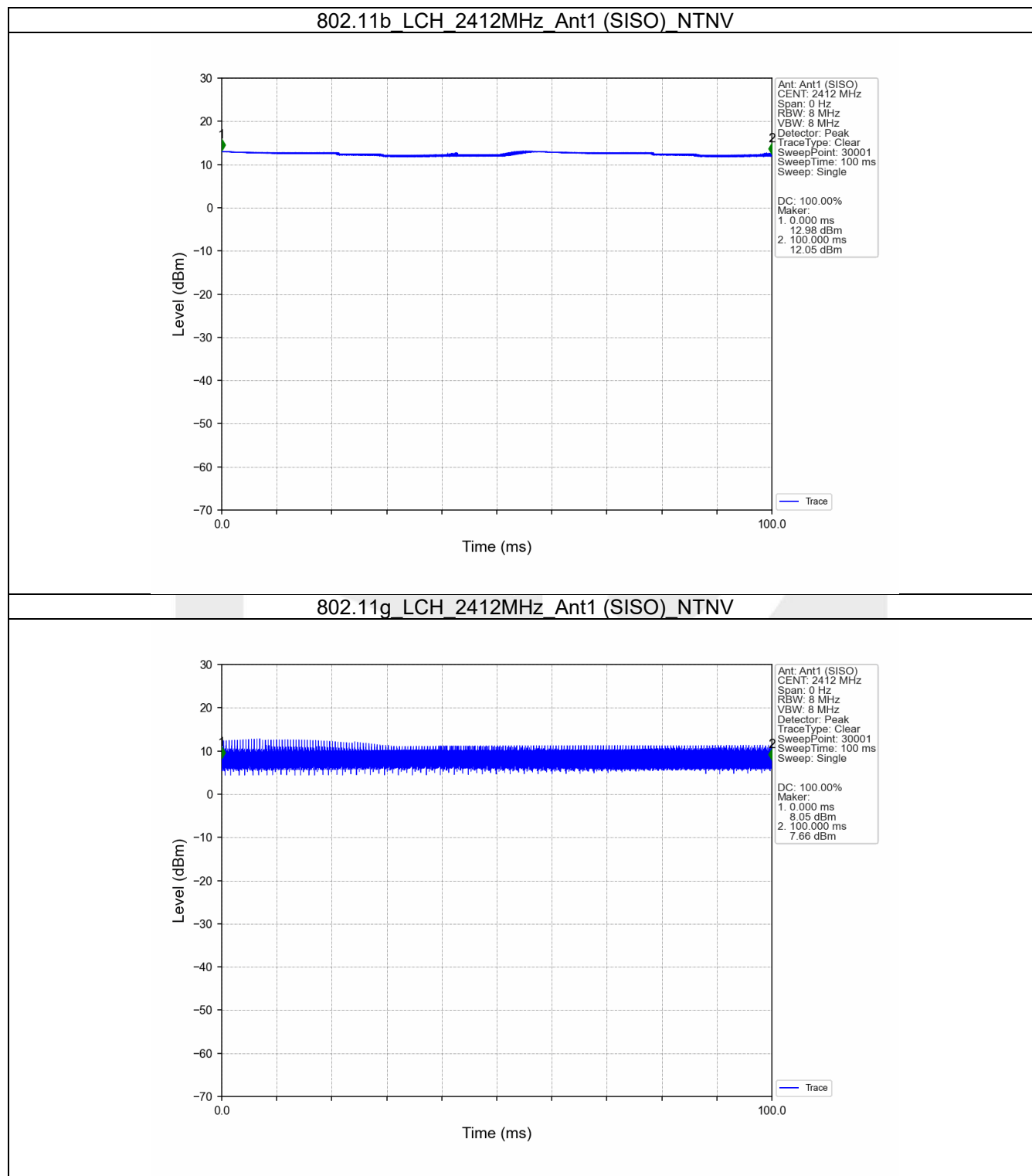
1.1 Test Result

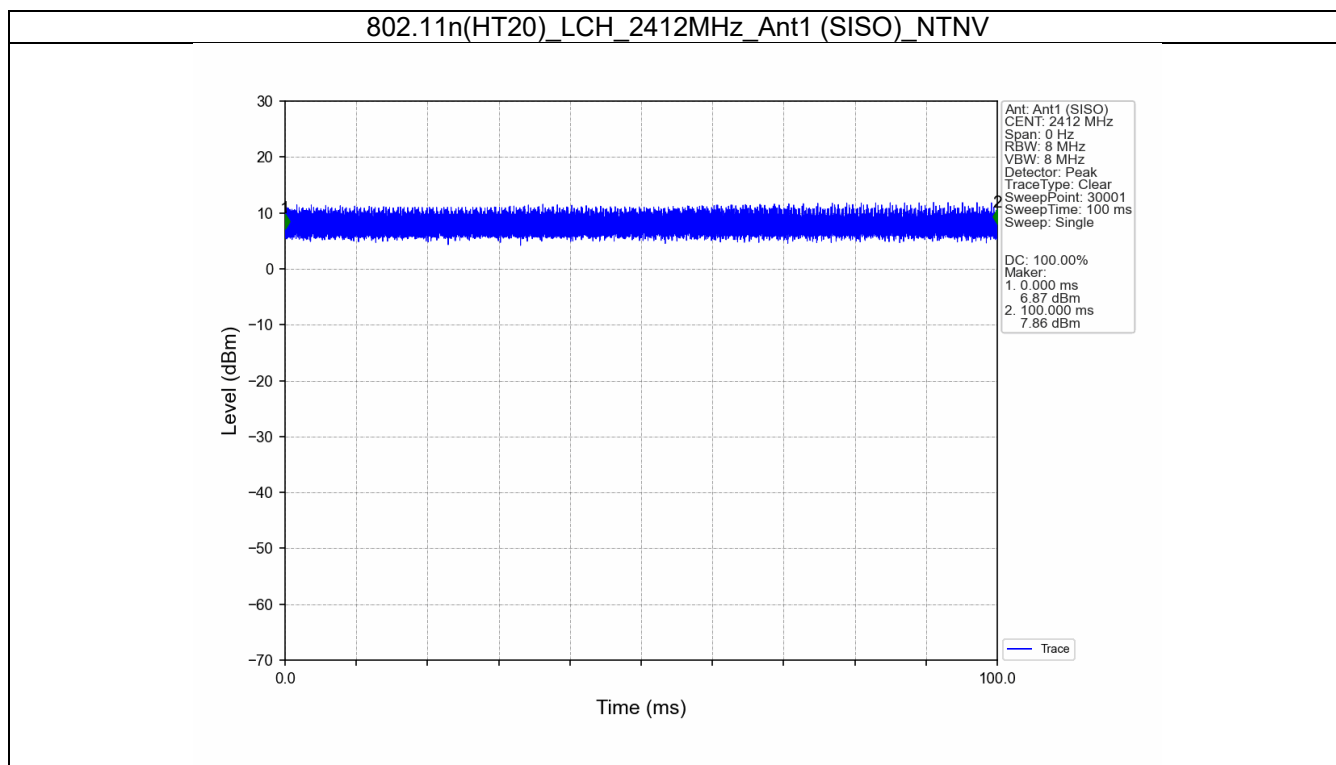
1.1.1 Ant1

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	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00

1.2 Test Graph

1.2.1 Ant1





2. Bandwidth

2.1 Test Result

2.1.1 OBW

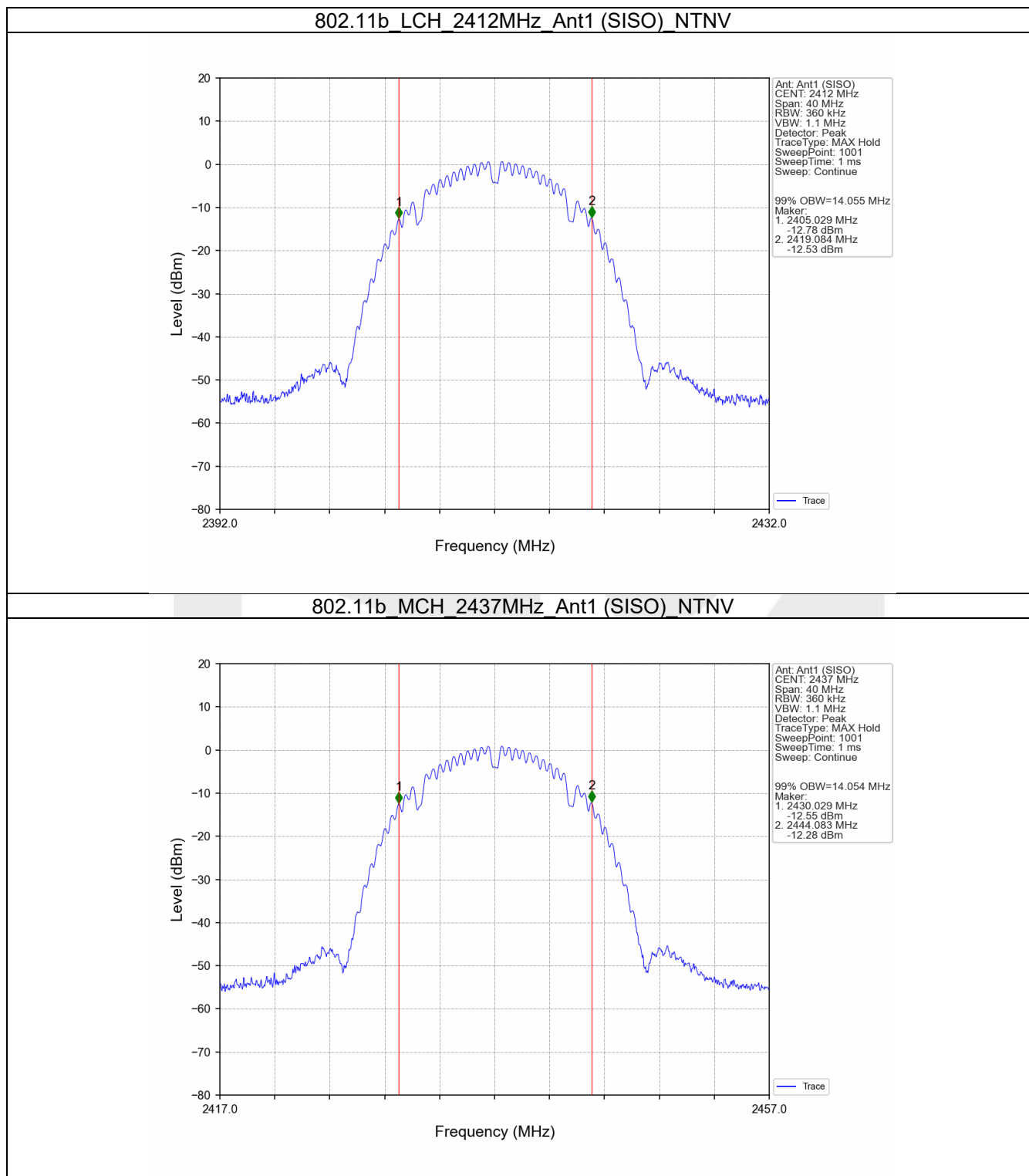
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.055	/	Pass
		2437	1	14.054	/	Pass
		2462	1	14.053	/	Pass
802.11g	SISO	2412	1	17.692	/	Pass
		2437	1	17.697	/	Pass
		2462	1	17.688	/	Pass
802.11n (HT20)	SISO	2412	1	18.601	/	Pass
		2437	1	18.584	/	Pass
		2462	1	18.590	/	Pass

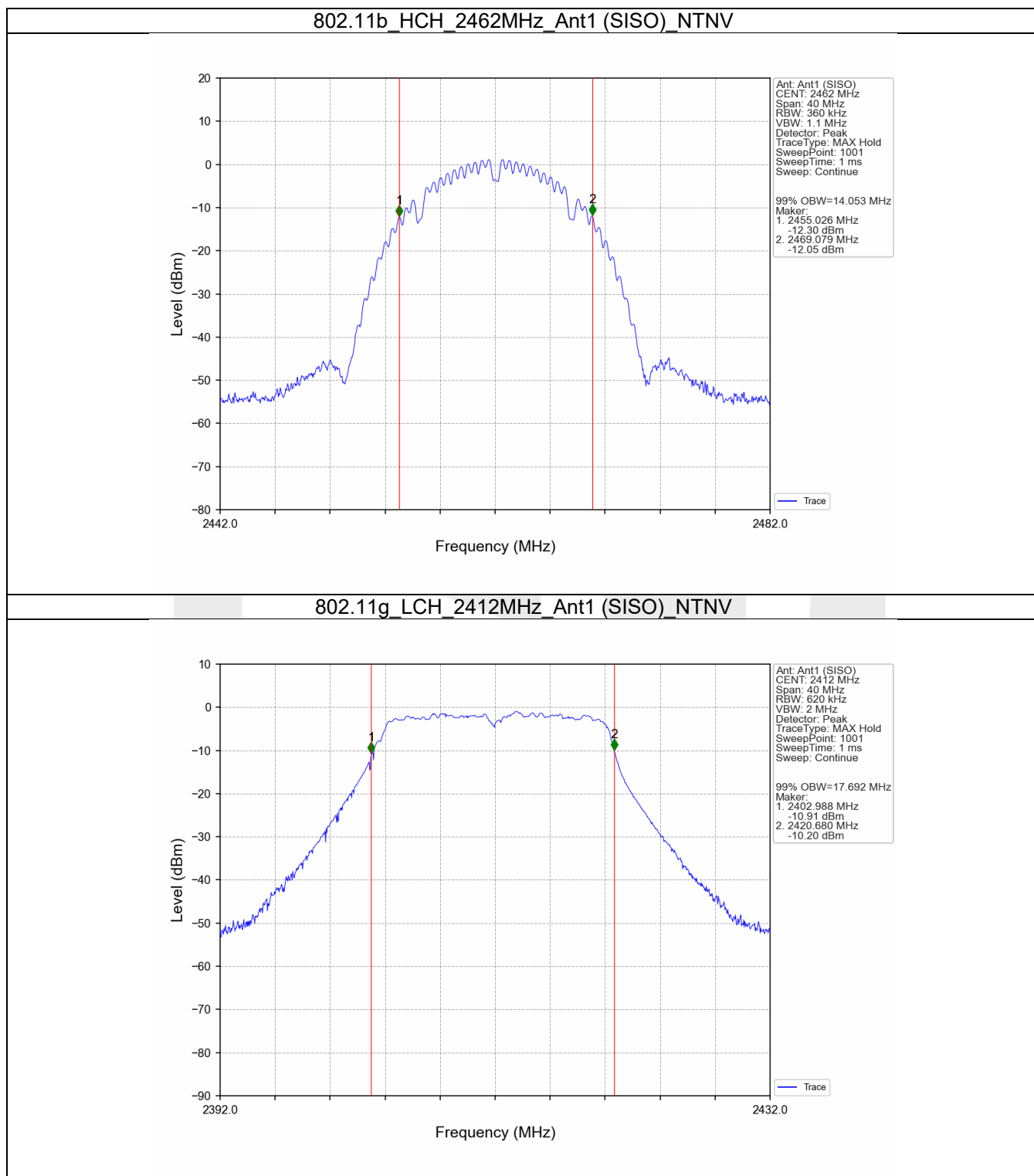
2.1.2 6dB BW

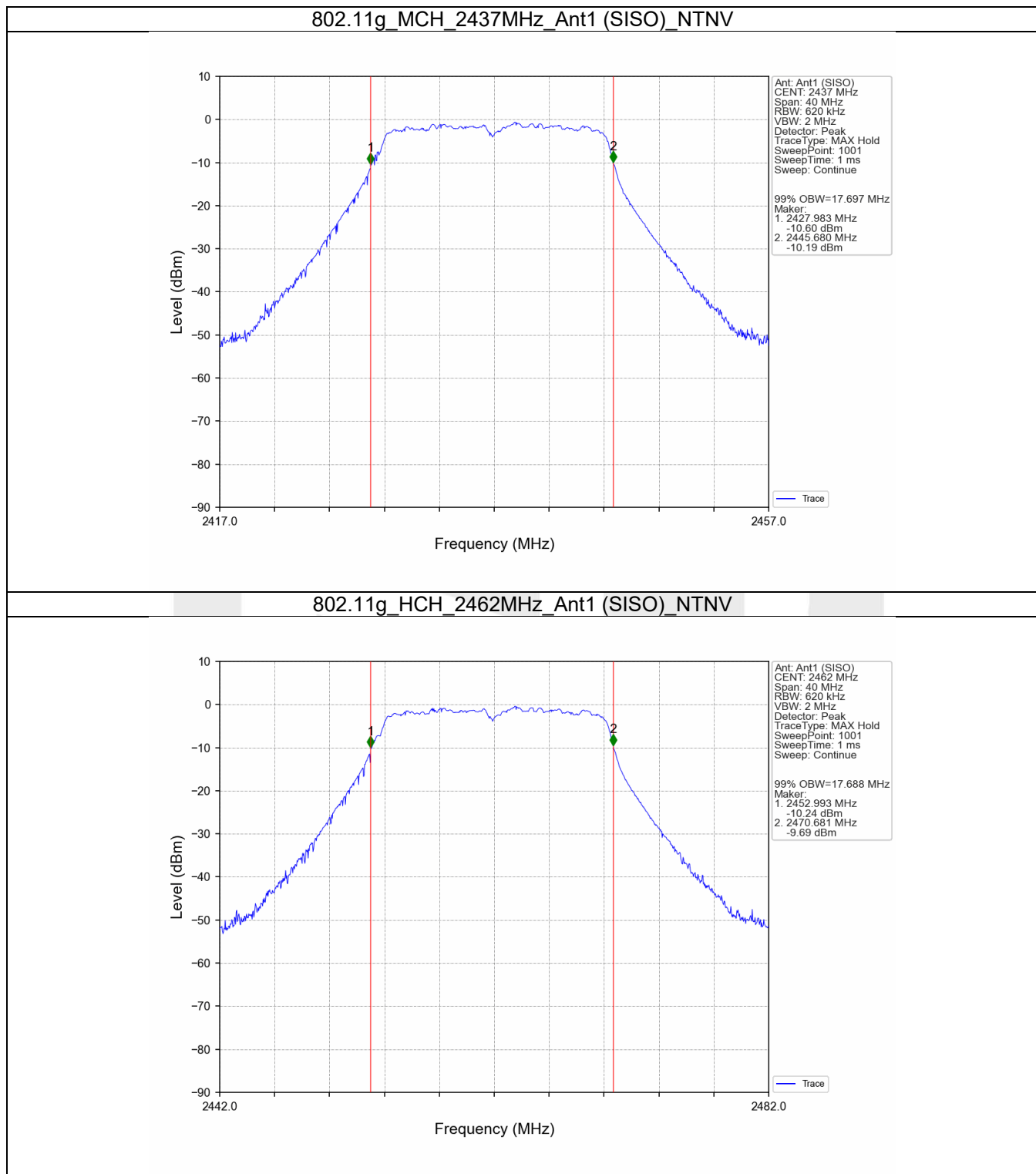
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.248	≥ 0.5	Pass
		2437	1	9.246	≥ 0.5	Pass
		2462	1	9.246	≥ 0.5	Pass
802.11g	SISO	2412	1	16.653	≥ 0.5	Pass
		2437	1	16.600	≥ 0.5	Pass
		2462	1	16.649	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.684	≥ 0.5	Pass
		2437	1	17.693	≥ 0.5	Pass
		2462	1	17.761	≥ 0.5	Pass

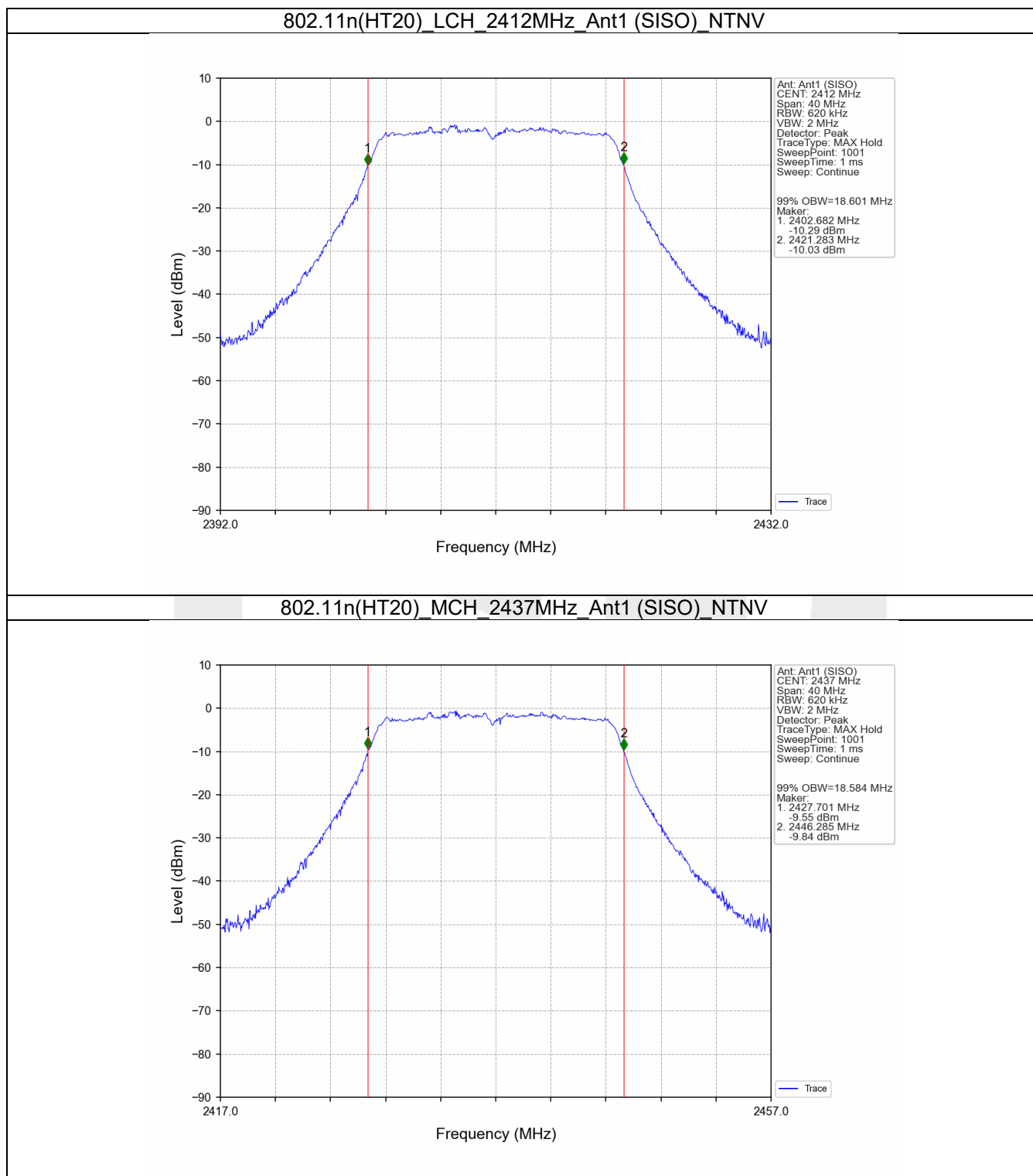
2.2 Test Graph

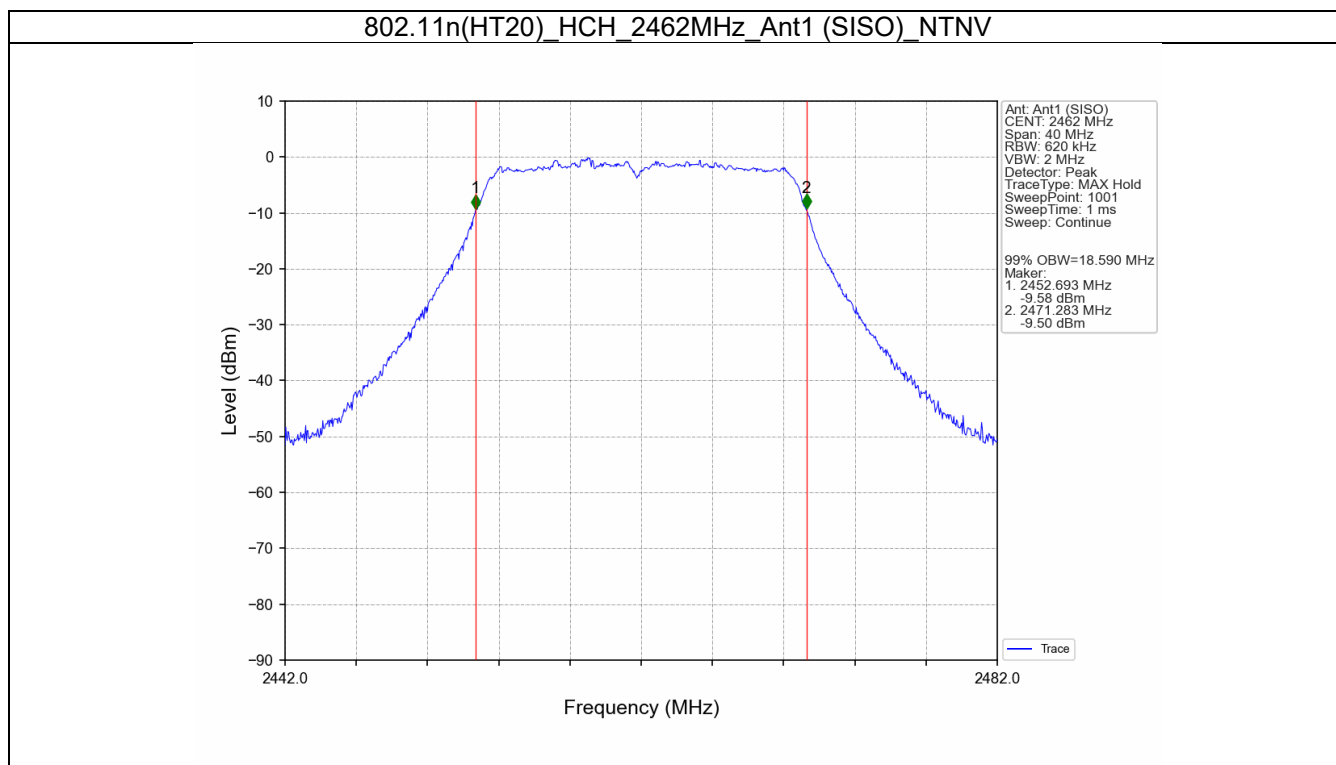
2.2.1 OBW



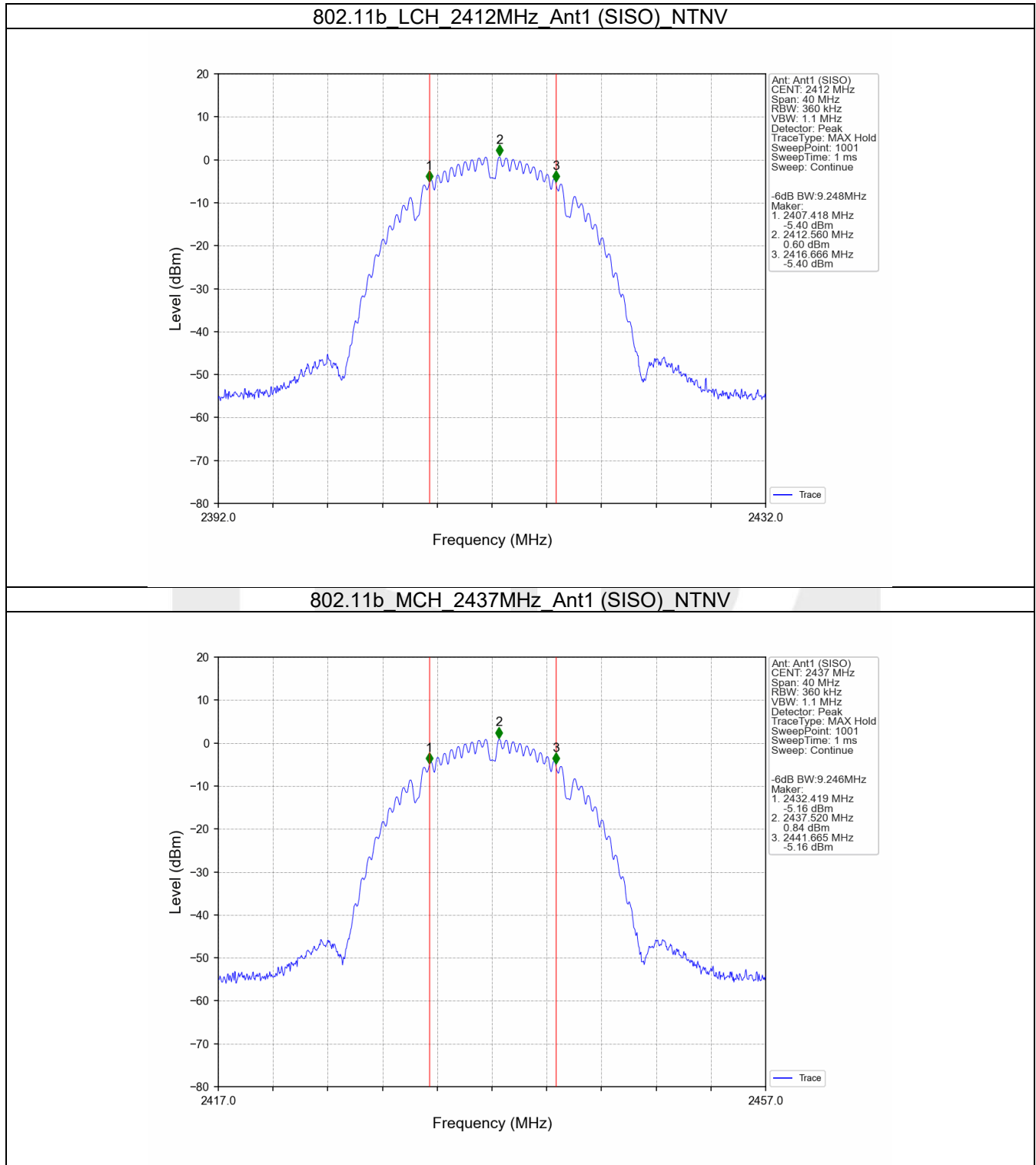


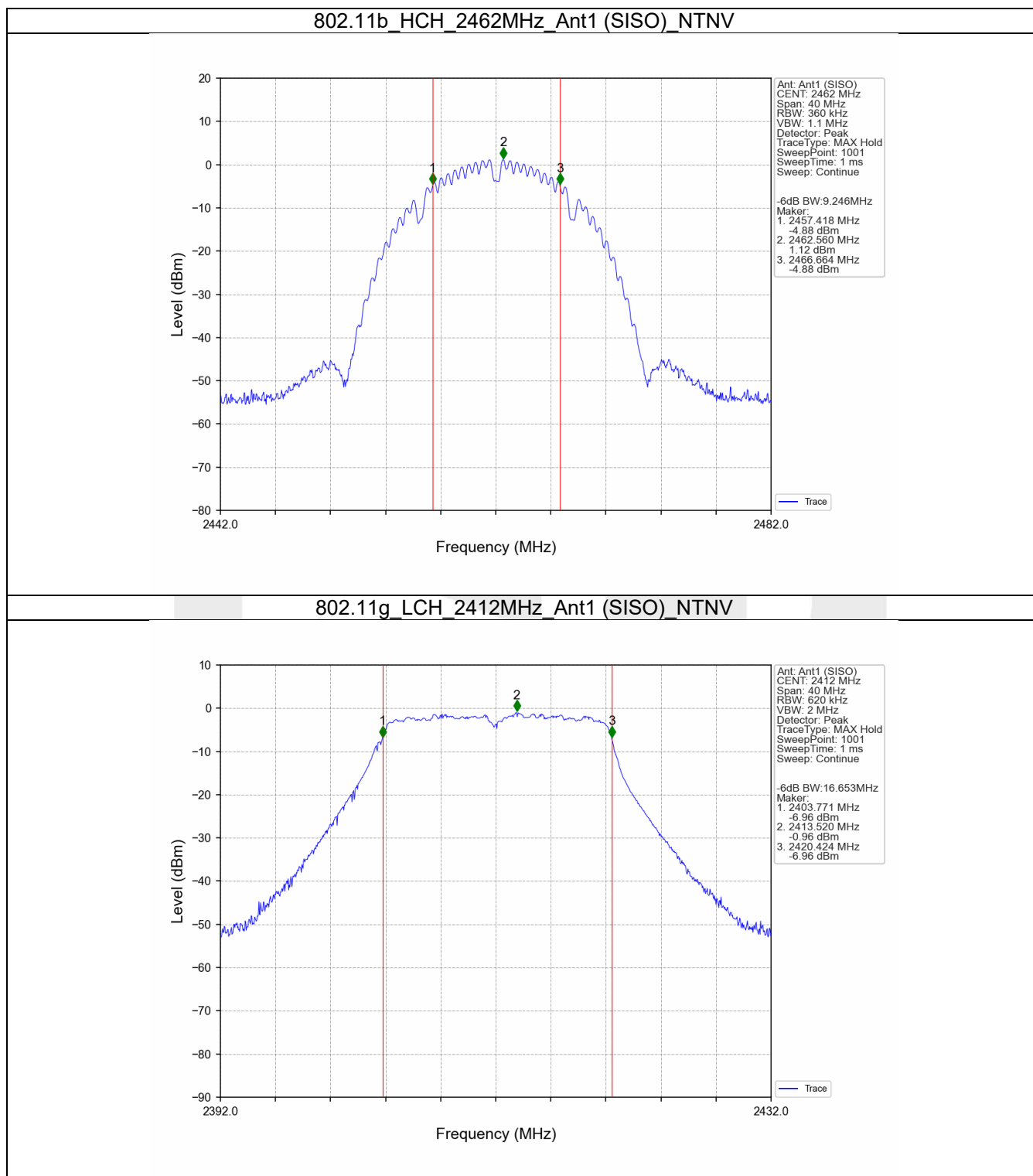


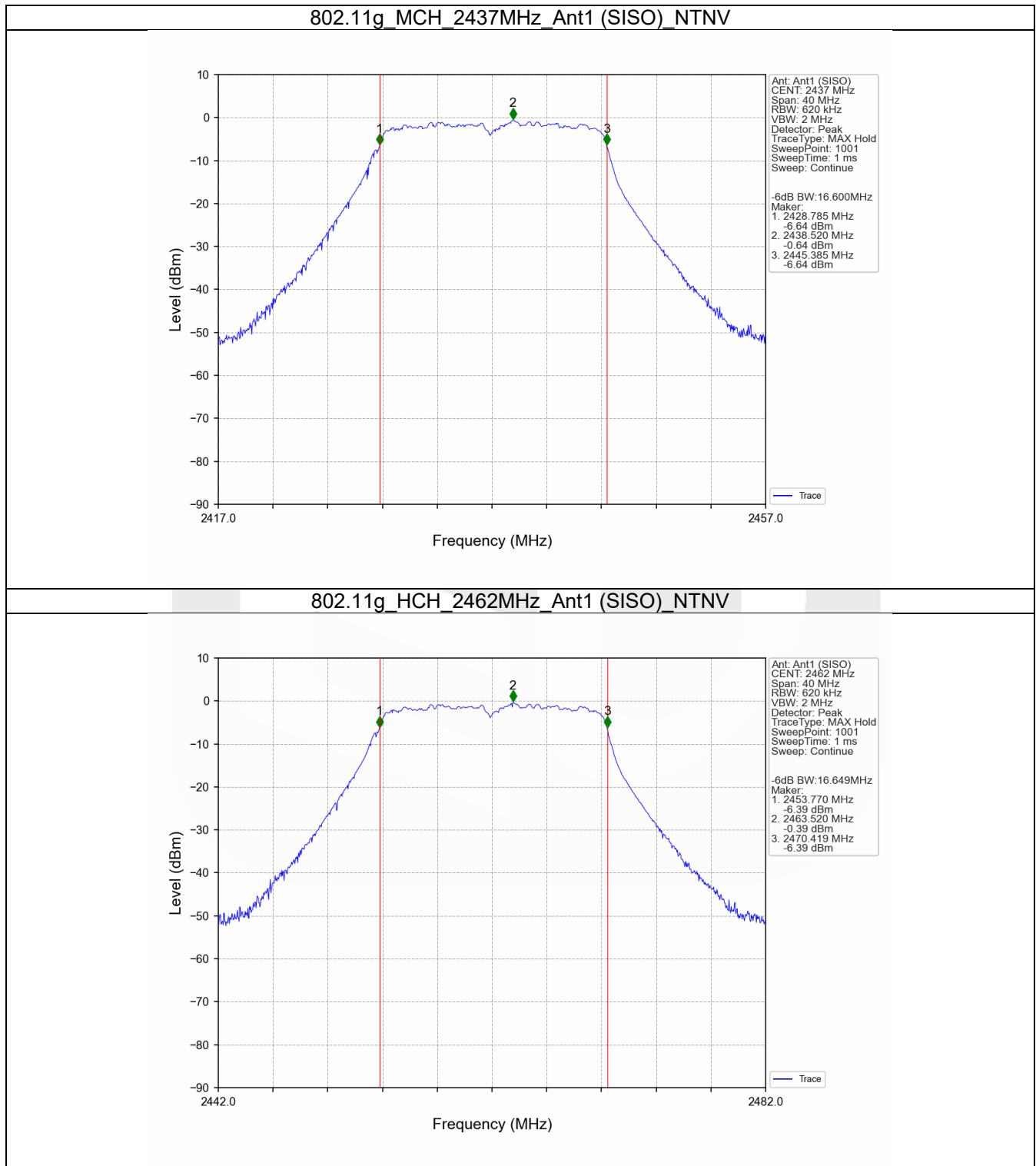




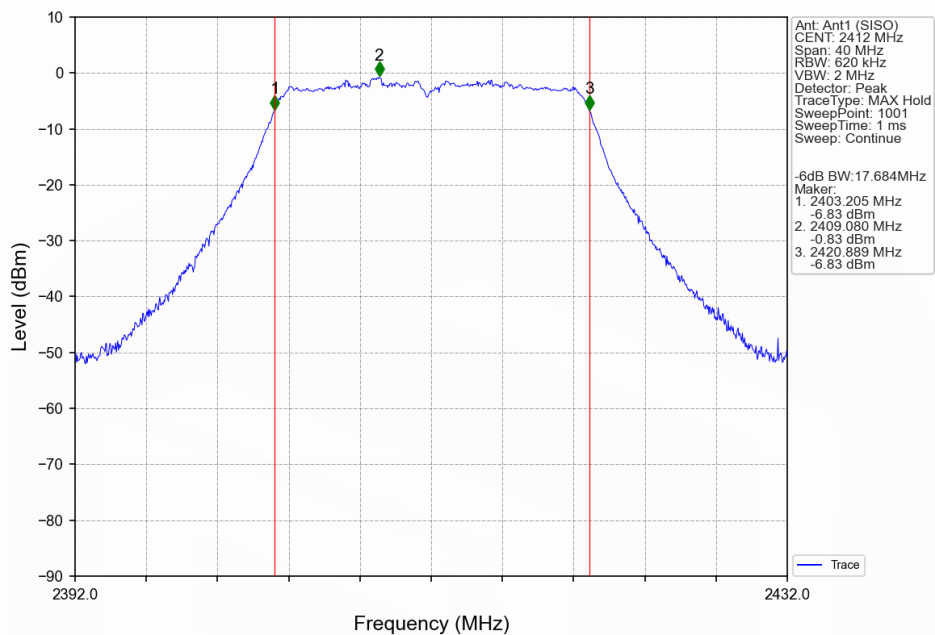
2.2.2 6dB BW



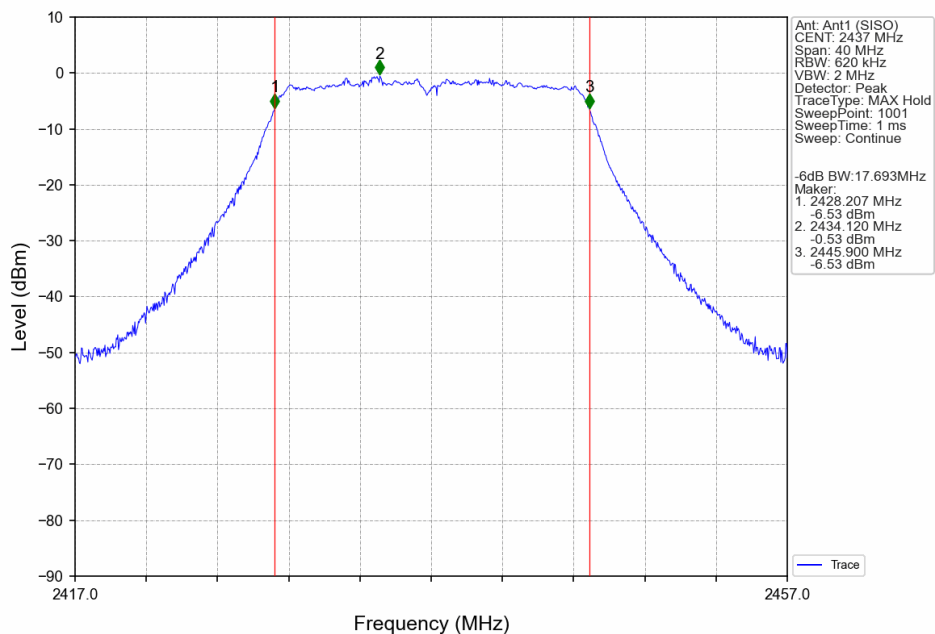


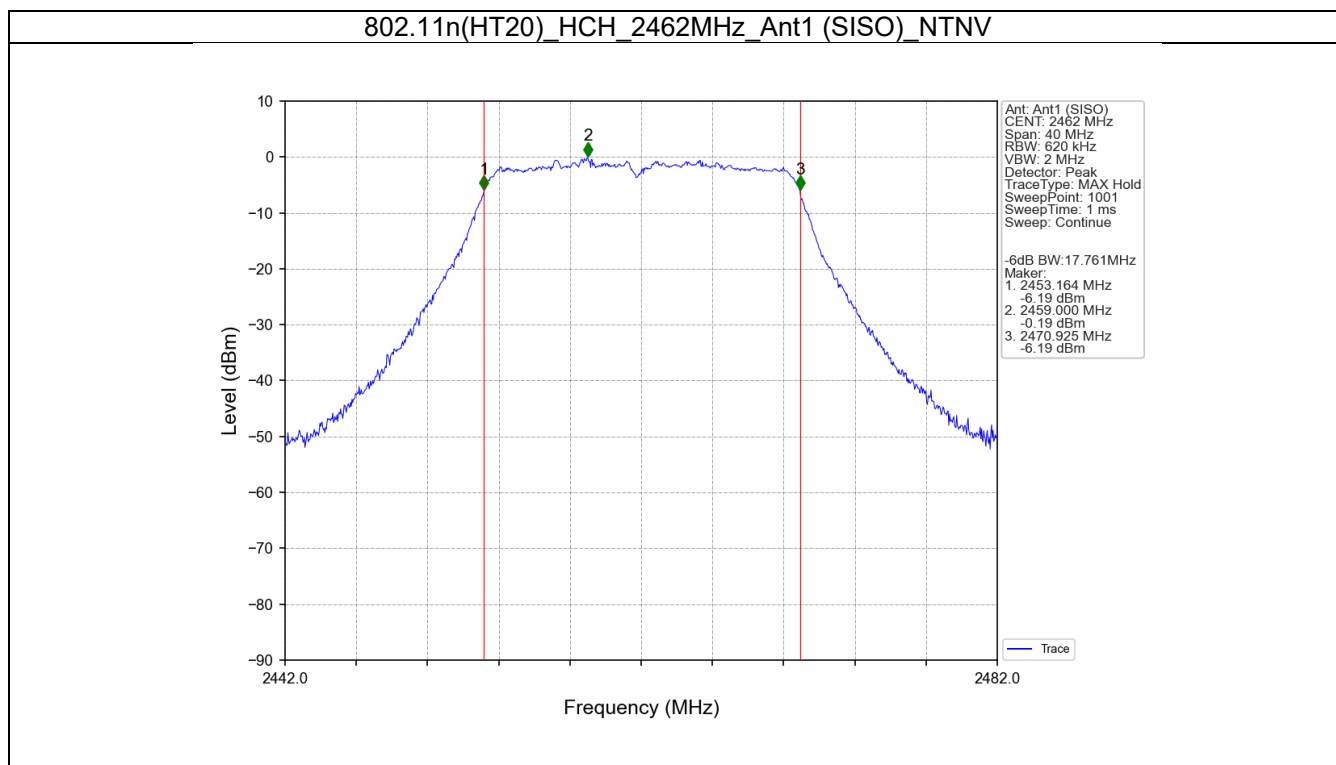


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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	11.30	<=30	Pass
		2437	11.54	<=30	Pass
		2462	11.81	<=30	Pass
802.11g	SISO	2412	12.78	<=30	Pass
		2437	13.07	<=30	Pass
		2462	13.34	<=30	Pass
802.11n (HT20)	SISO	2412	12.82	<=30	Pass
		2437	13.14	<=30	Pass
		2462	13.46	<=30	Pass
Note1: Antenna Gain: Ant1: 1.58dBi;					

4. Maximum Power Spectral Density

4.1 Test Result

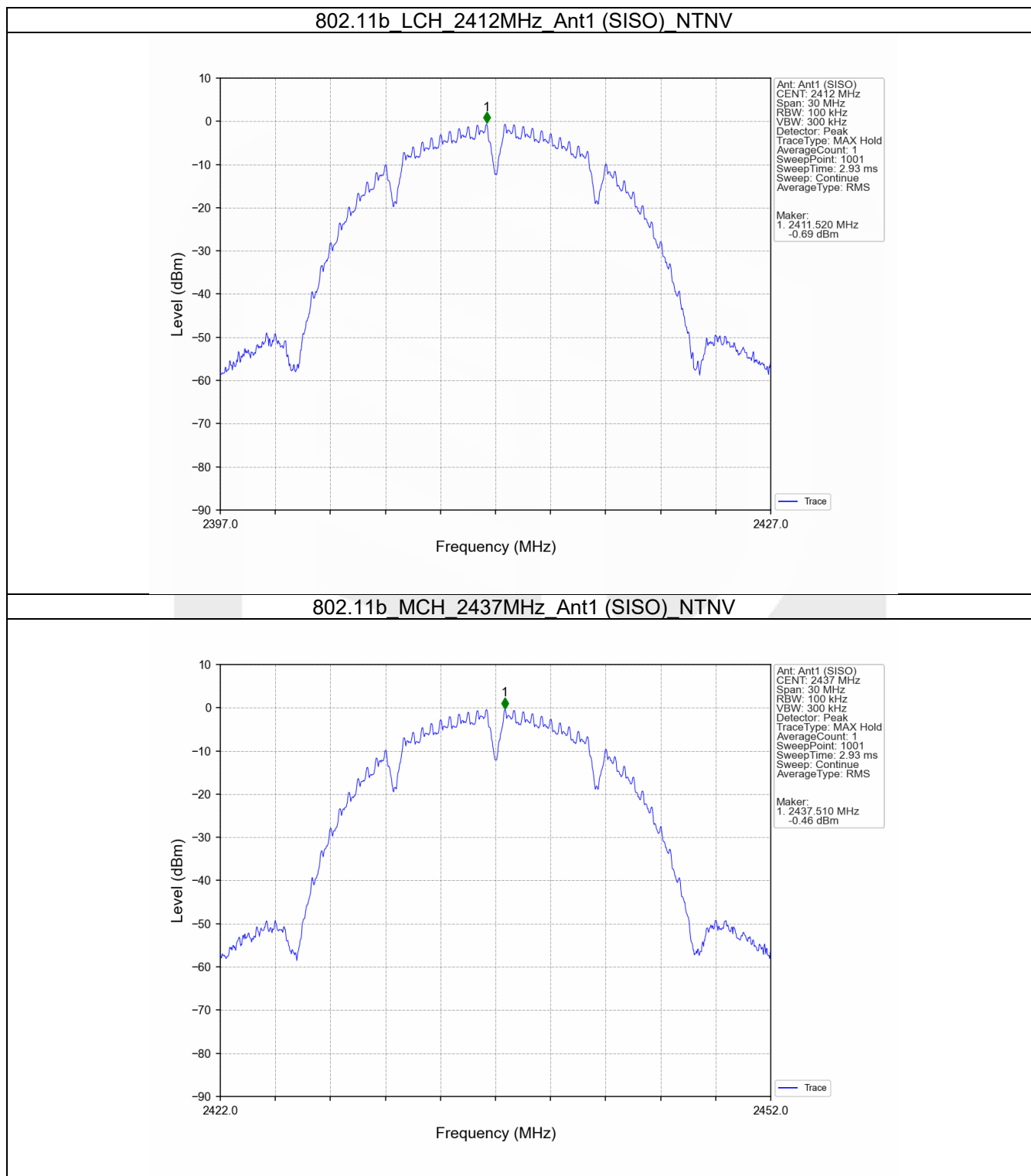
4.1.1 PSD

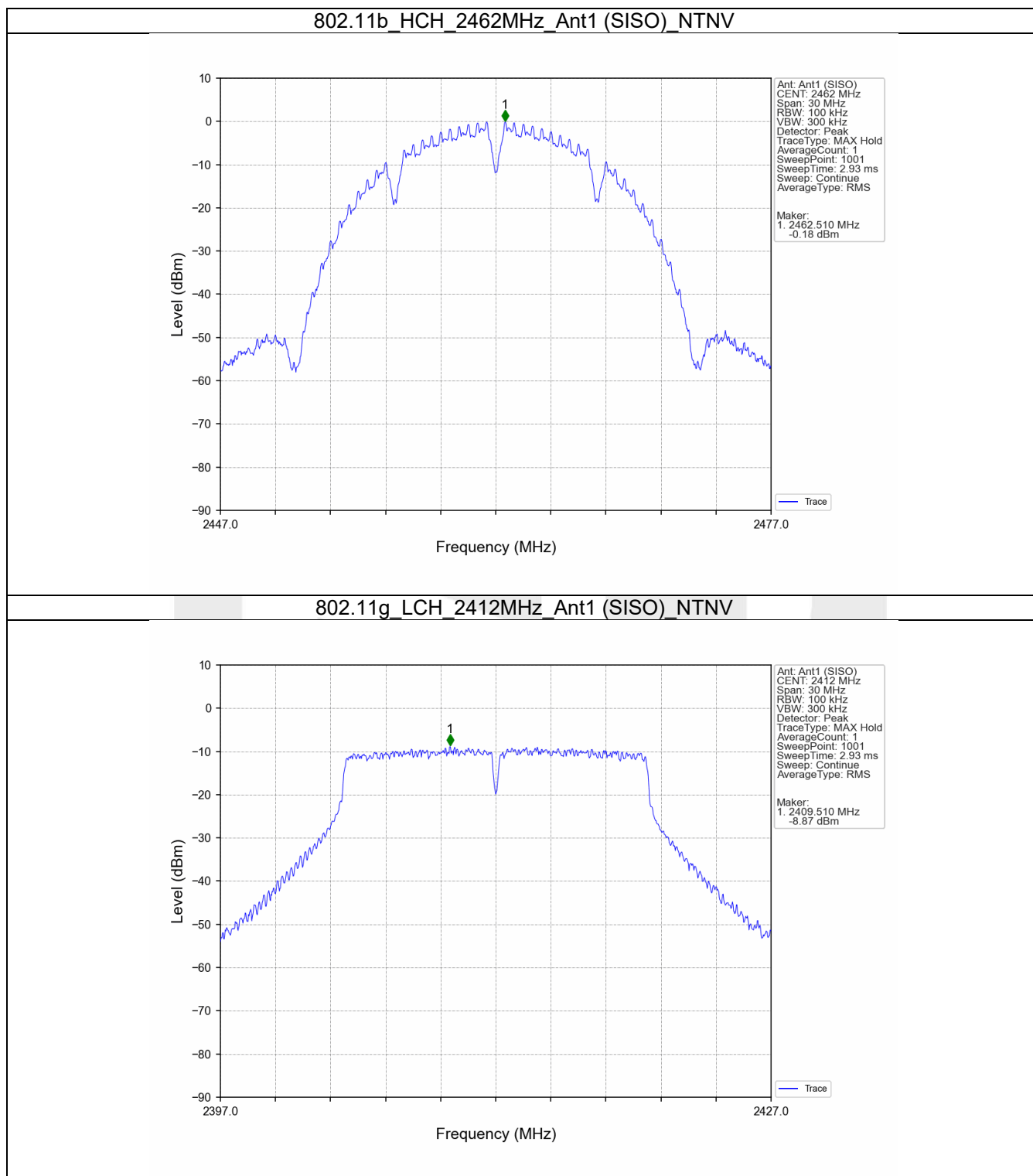
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-0.69	≤ 8	Pass
		2437	-0.46	≤ 8	Pass
		2462	-0.18	≤ 8	Pass
802.11g	SISO	2412	-8.87	≤ 8	Pass
		2437	-8.58	≤ 8	Pass
		2462	-8.30	≤ 8	Pass
802.11n (HT20)	SISO	2412	-8.63	≤ 8	Pass
		2437	-8.25	≤ 8	Pass
		2462	-7.96	≤ 8	Pass

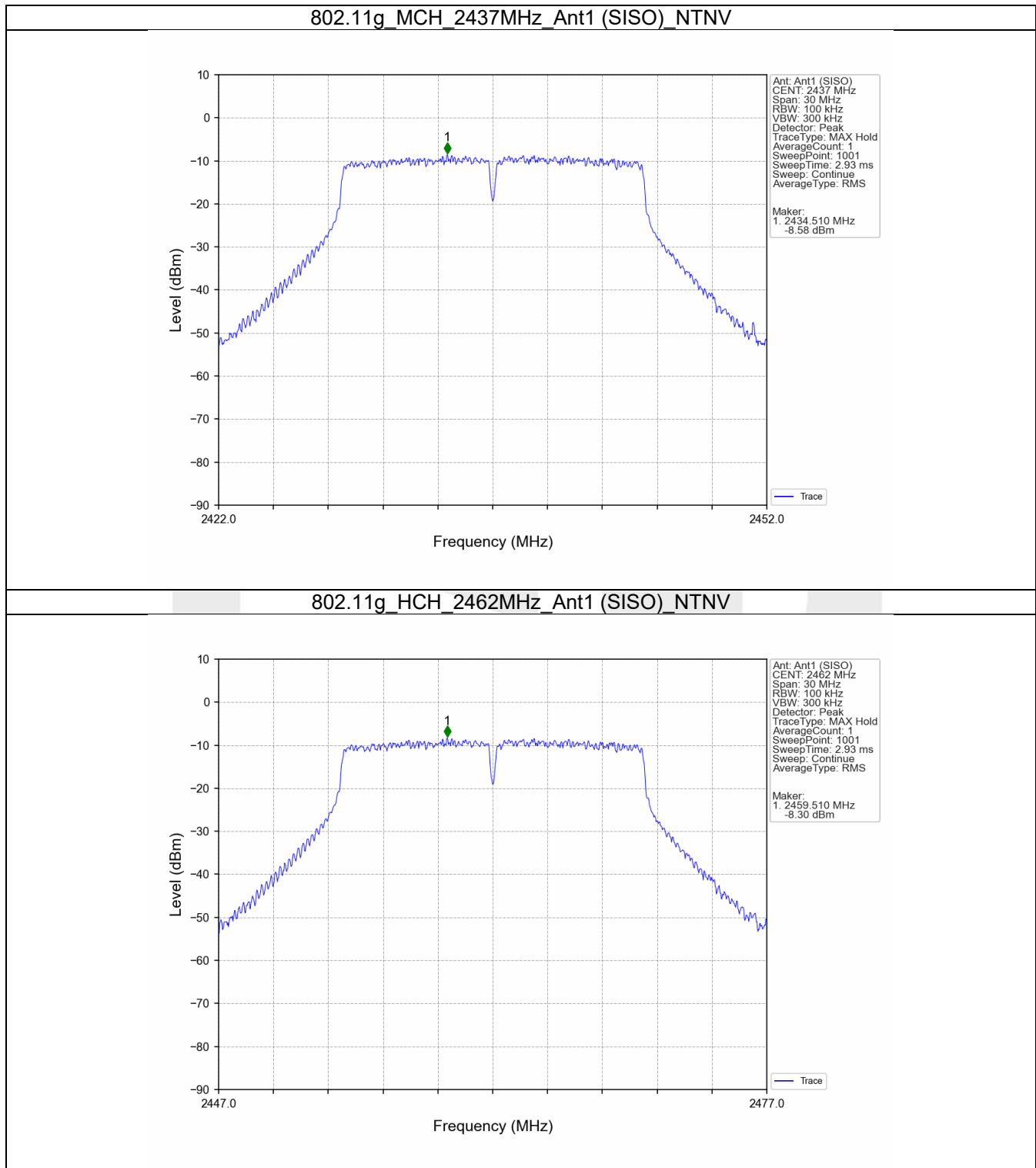
Note1: Antenna Gain: Ant1: 1.58dBi;

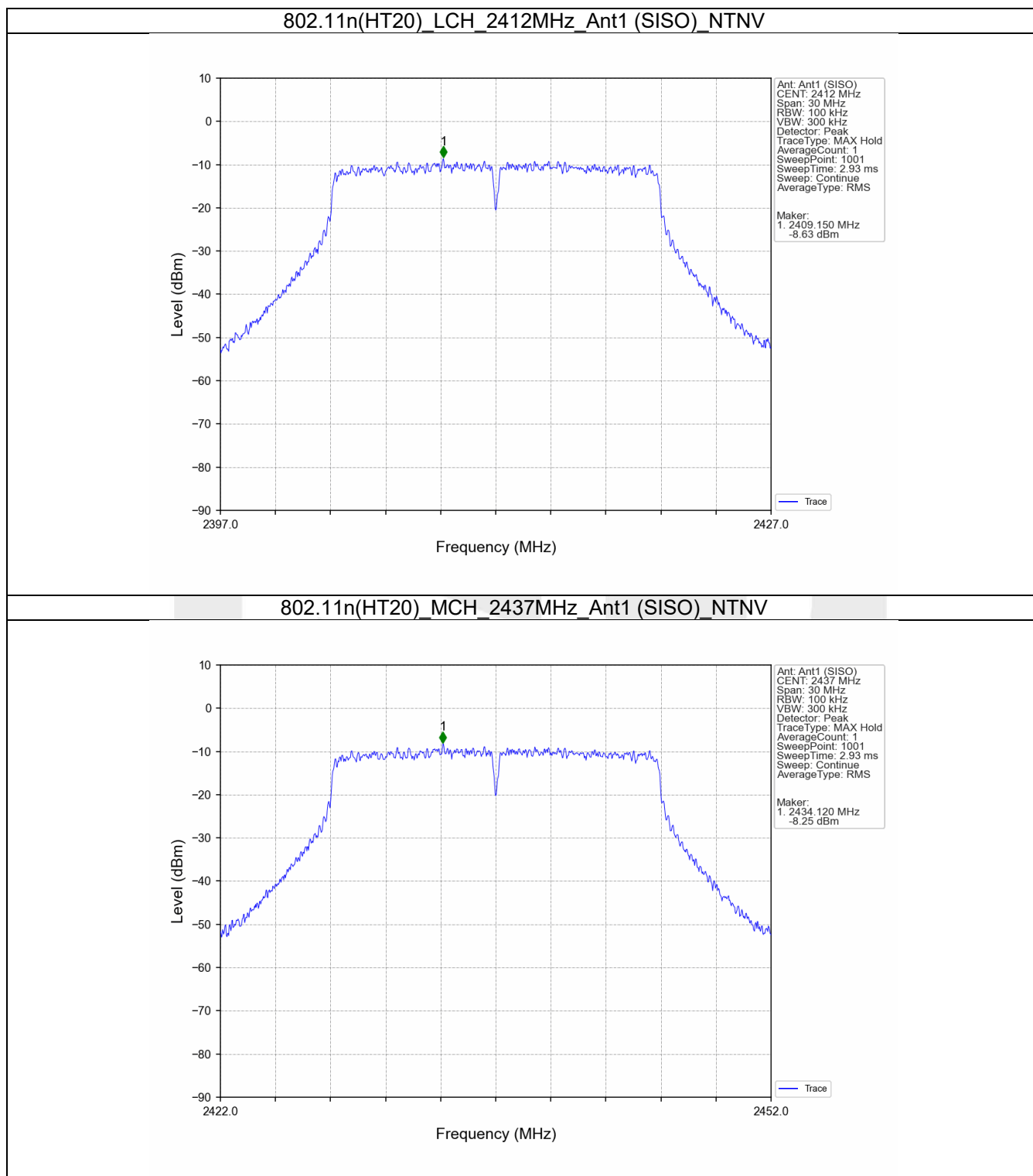
4.2 Test Graph

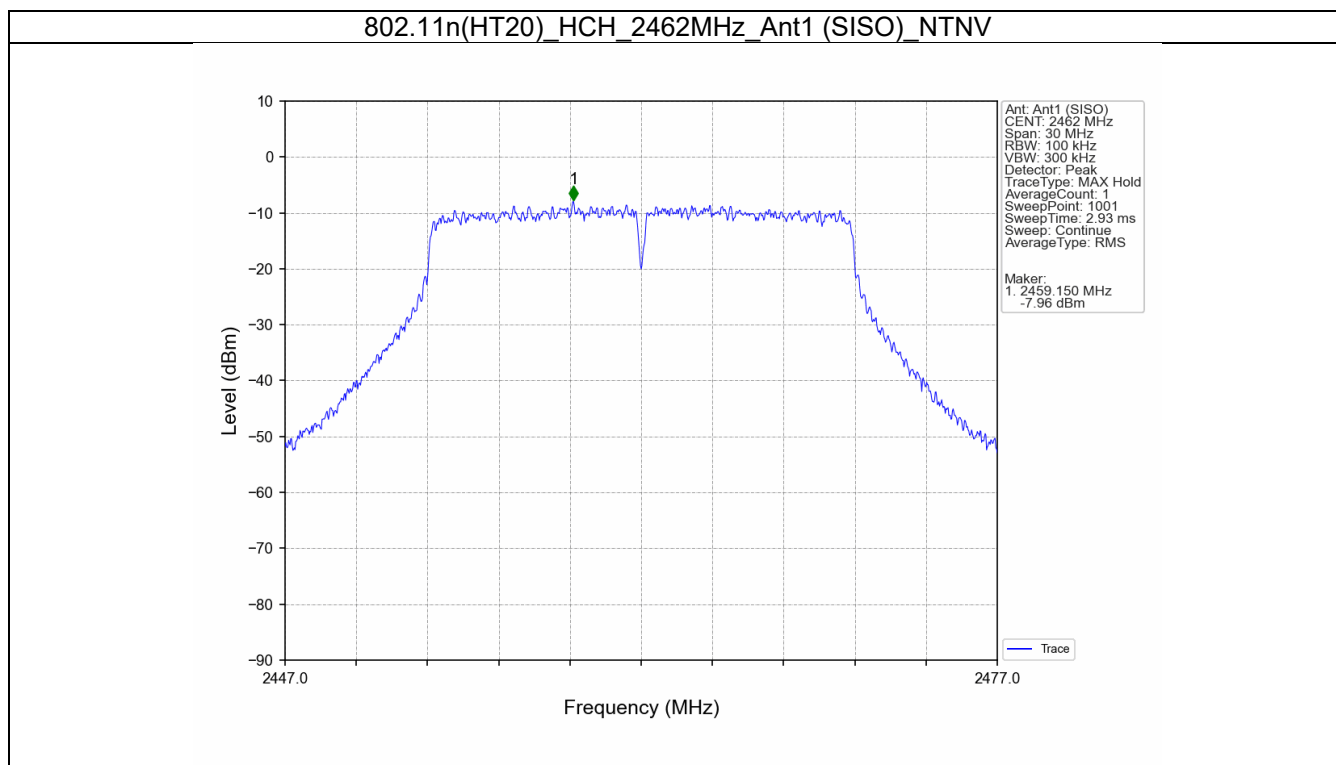
4.2.1 PSD











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	-0.68
		2437	1	-0.45
		2462	1	-0.15
802.11g	SISO	2412	1	-9.05
		2437	1	-8.57
		2462	1	-8.28
802.11n (HT20)	SISO	2412	1	-8.68
		2437	1	-8.26
		2462	1	-7.92

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020+Cor 1-2023, the channel contains the maximum PSD level was used to establish the reference level.

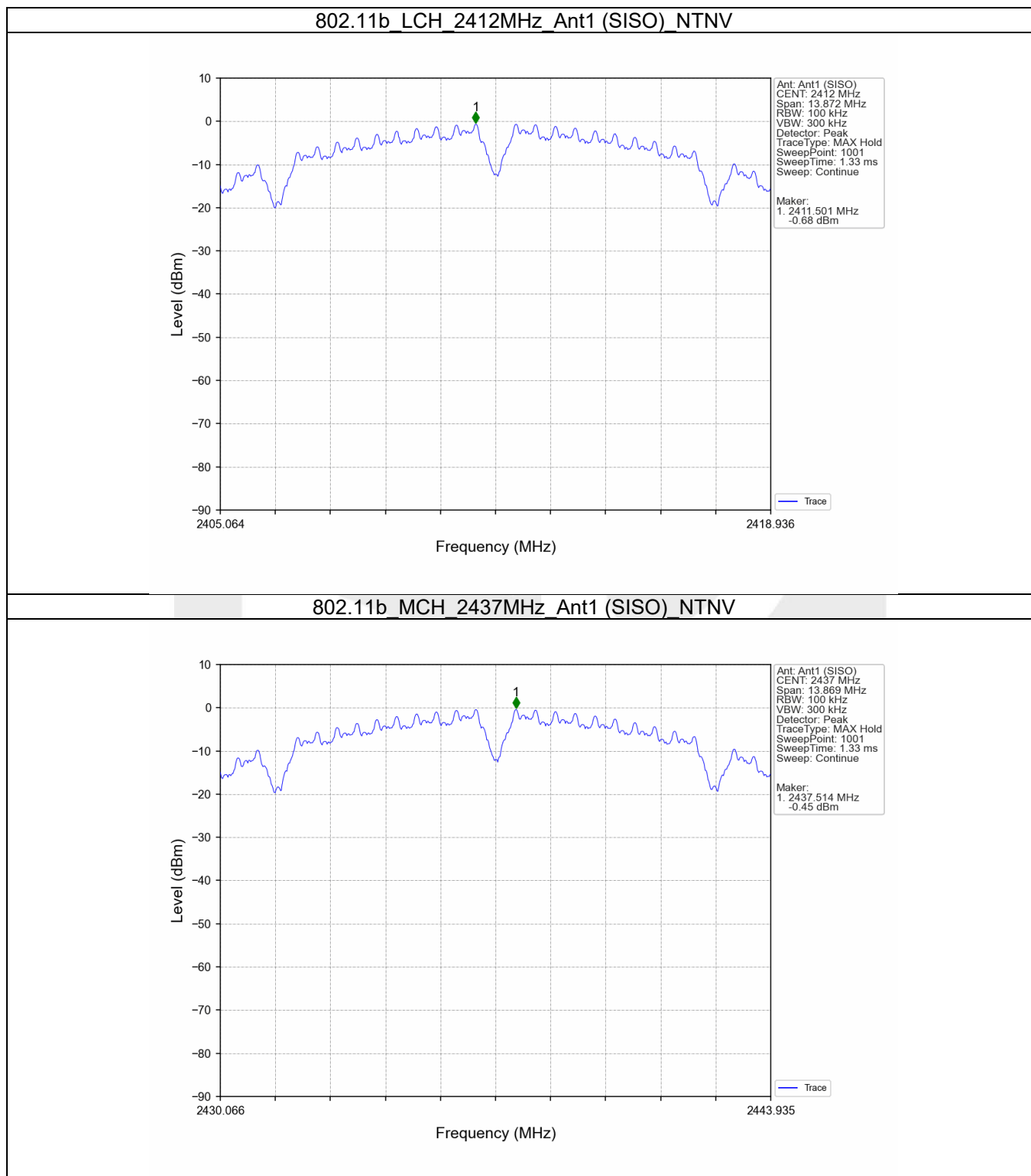
5.1.2 CSE

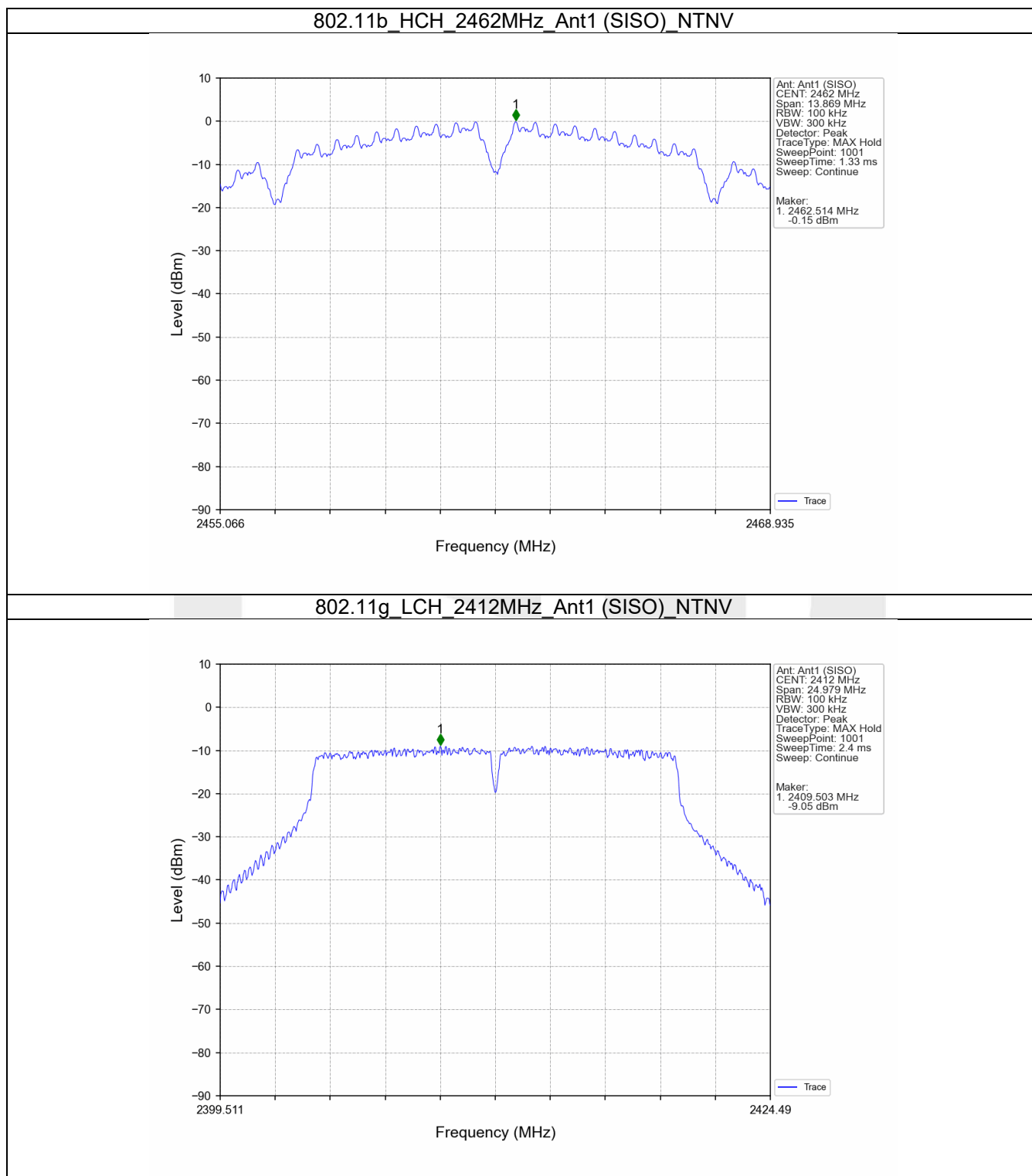
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-0.68	-20.68	Pass
		2437	1	-0.45	-20.45	Pass
		2462	1	-0.15	-20.15	Pass
802.11g	SISO	2412	1	-9.05	-29.05	Pass
		2437	1	-8.57	-28.57	Pass
		2462	1	-8.28	-28.28	Pass
802.11n (HT20)	SISO	2412	1	-8.68	-28.68	Pass
		2437	1	-8.26	-28.26	Pass
		2462	1	-7.92	-27.92	Pass

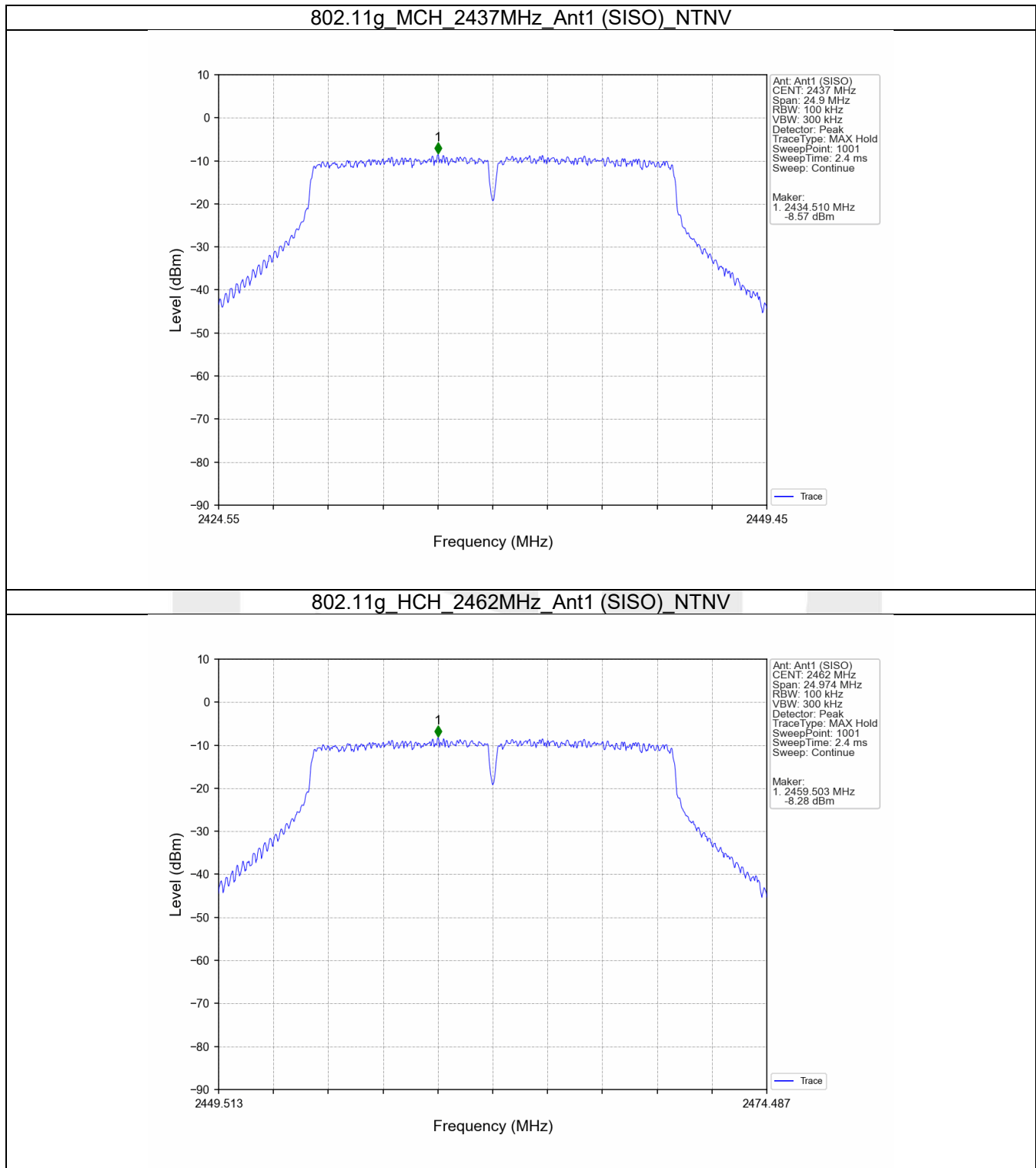
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020+Cor 1-2023, the channel contains the maximum PSD level was used to establish the reference level.

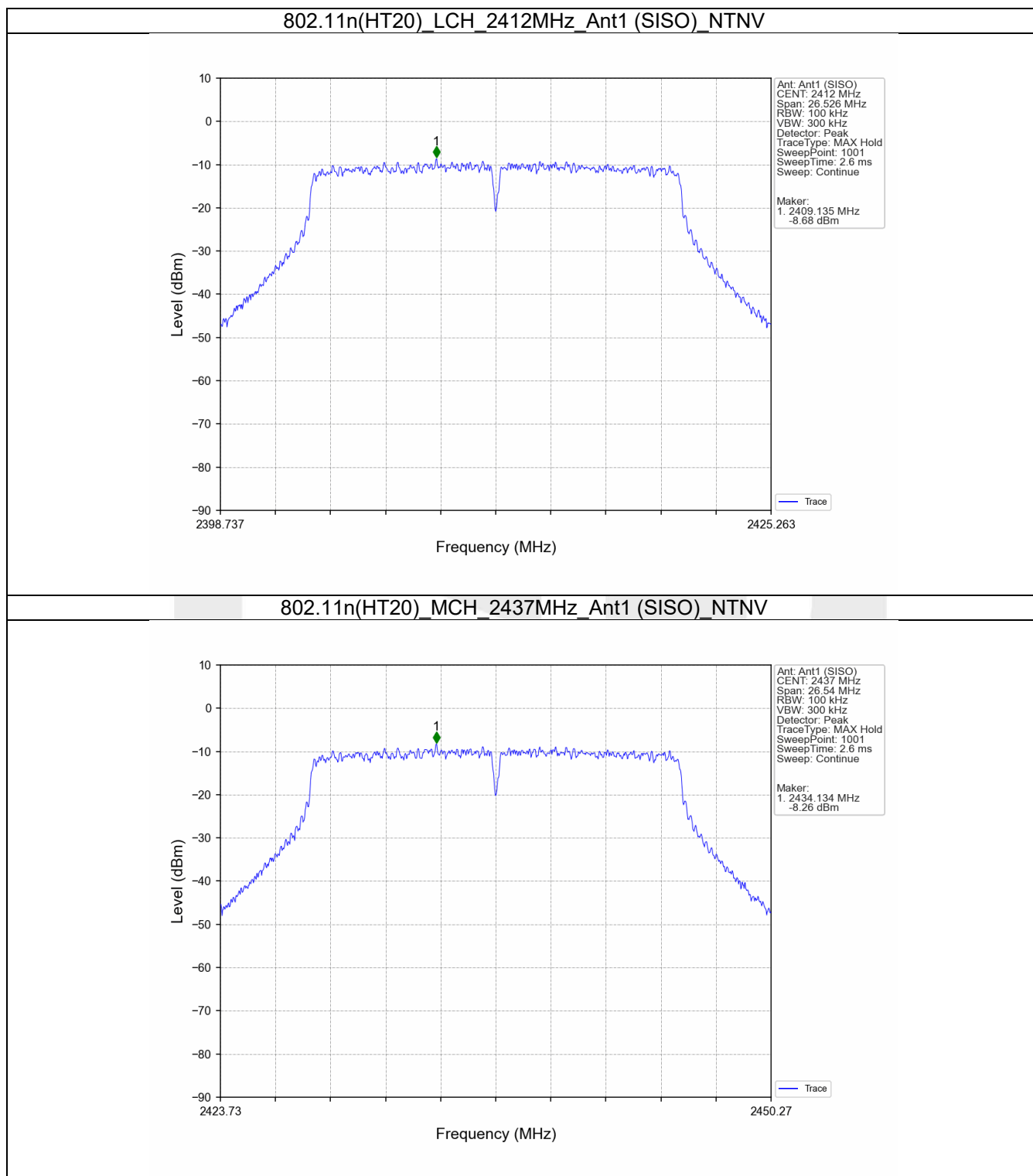
5.2 Test Graph

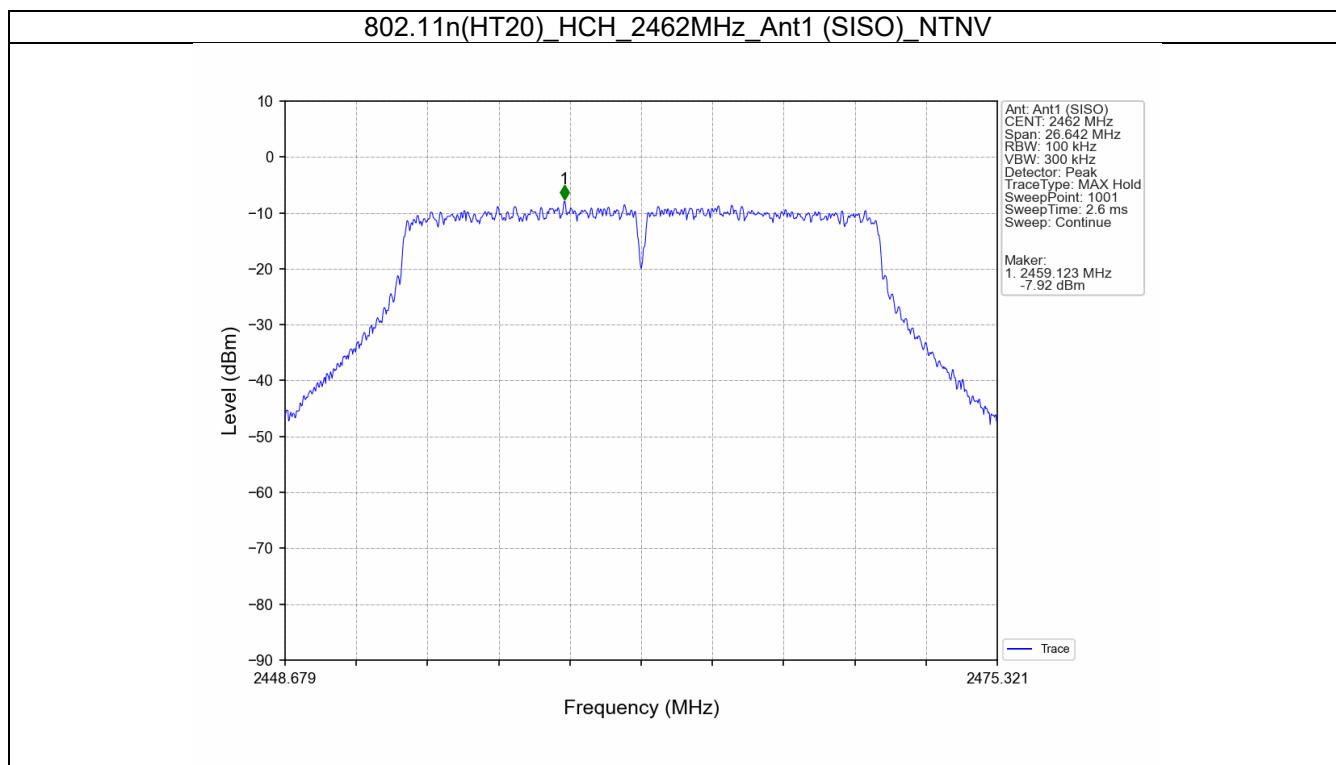
5.2.1 Ref



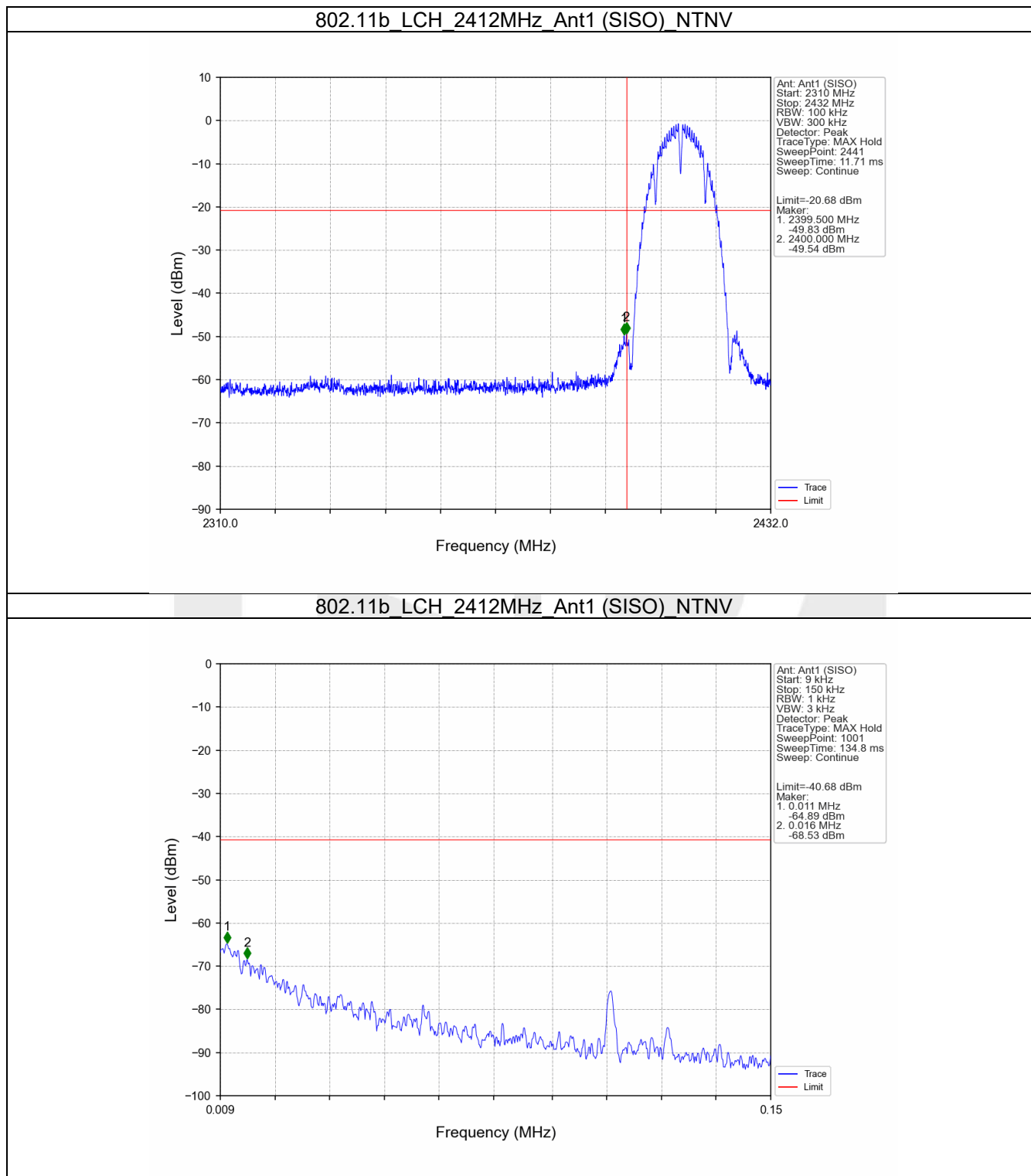


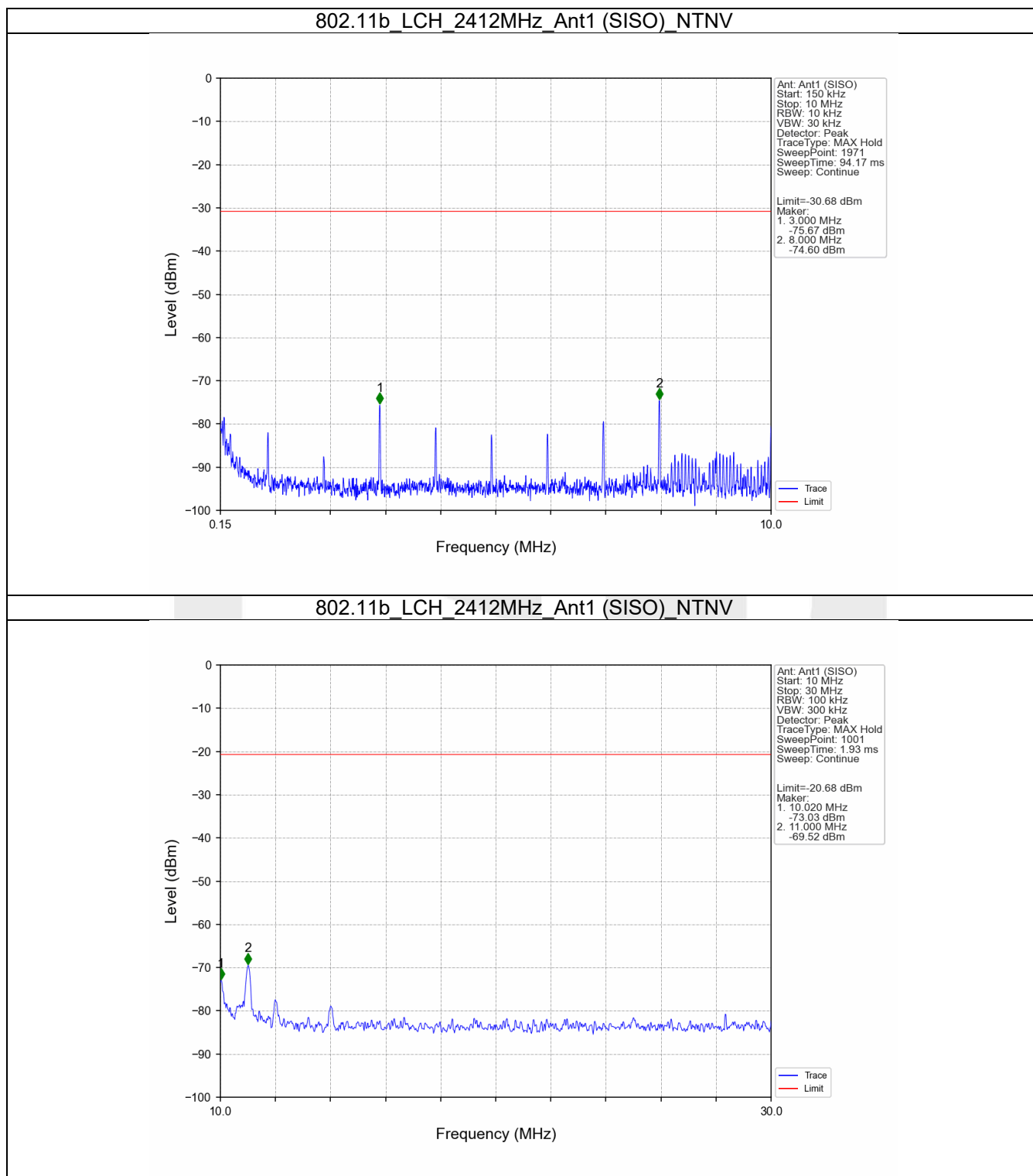


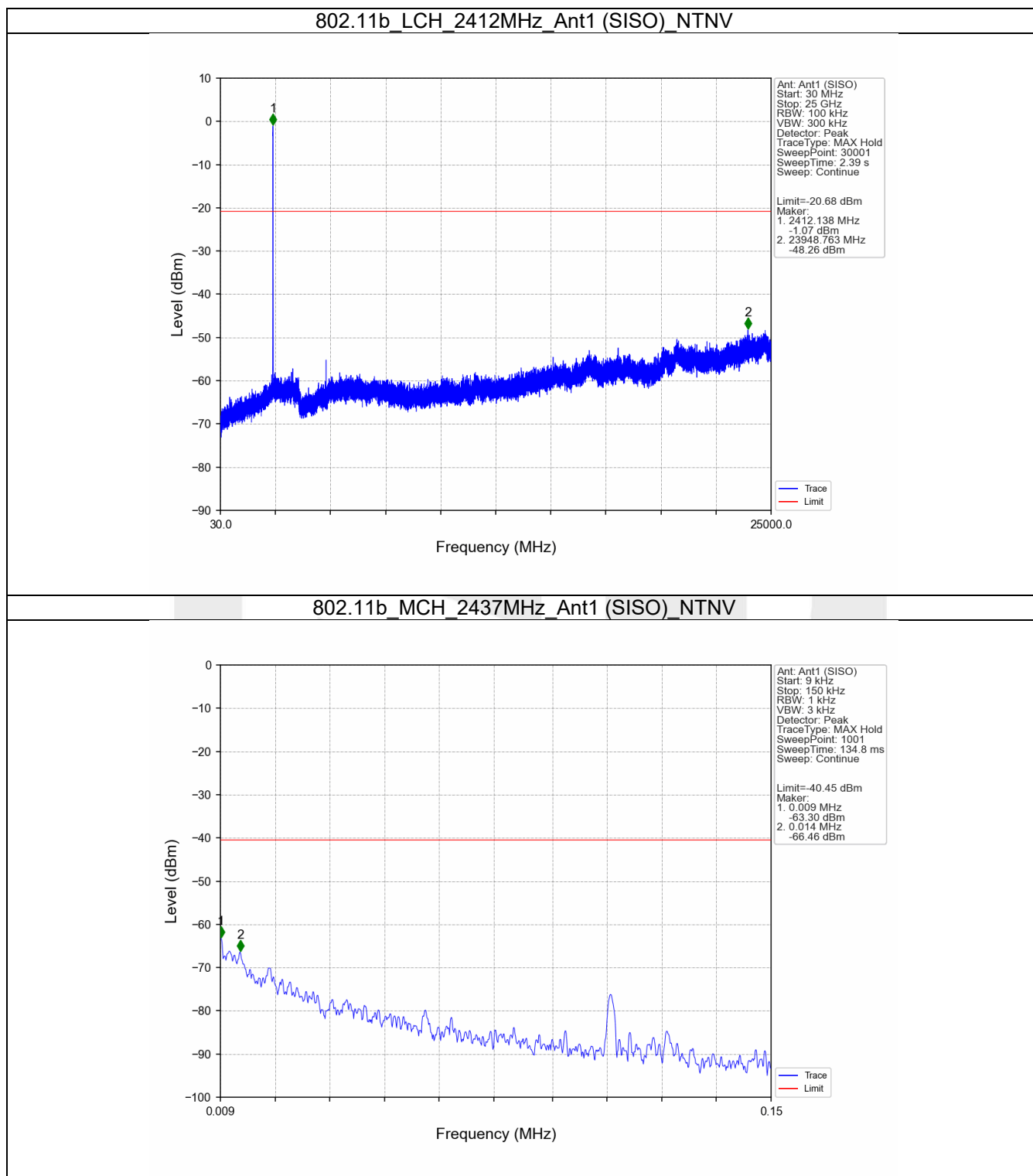


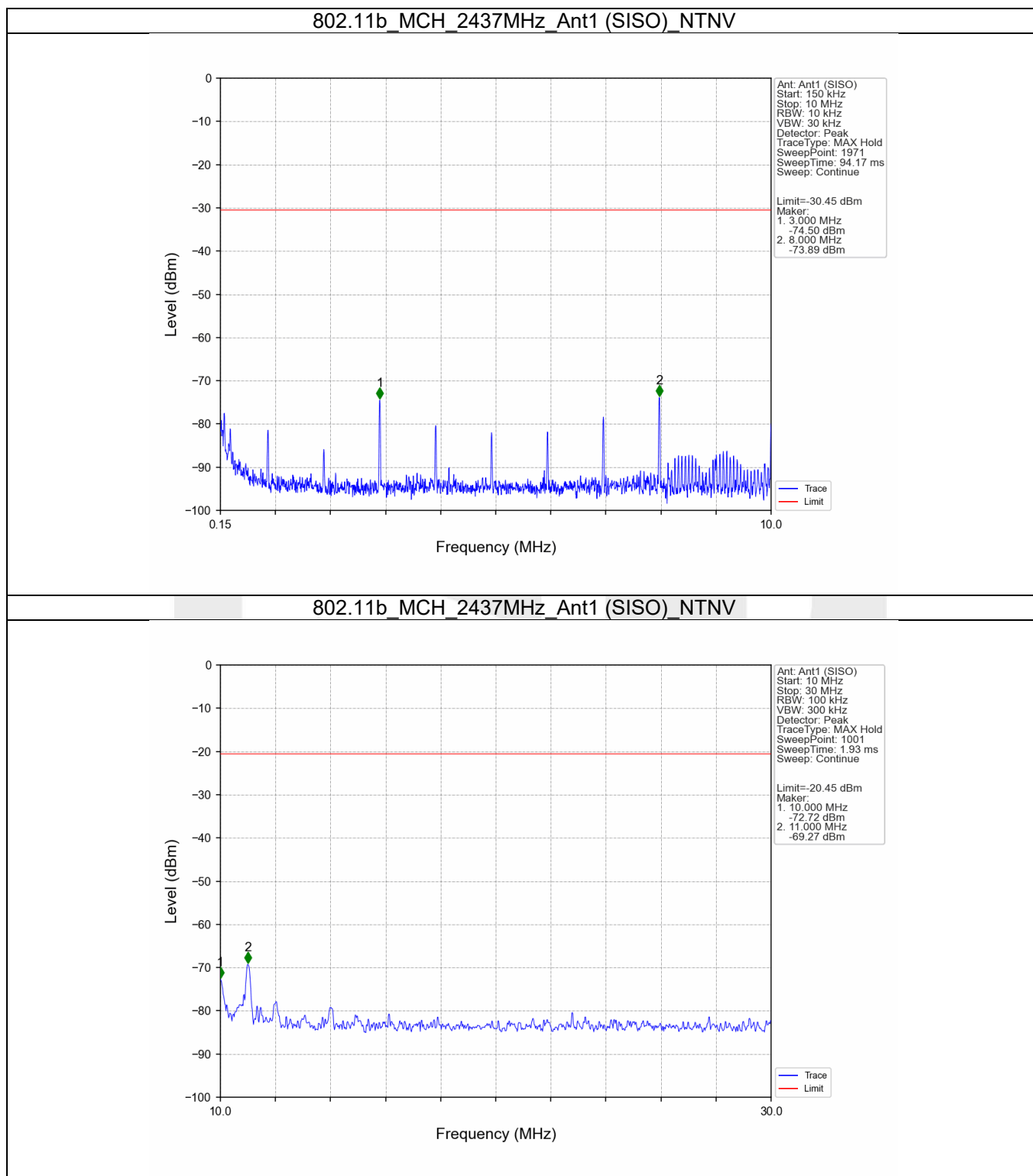


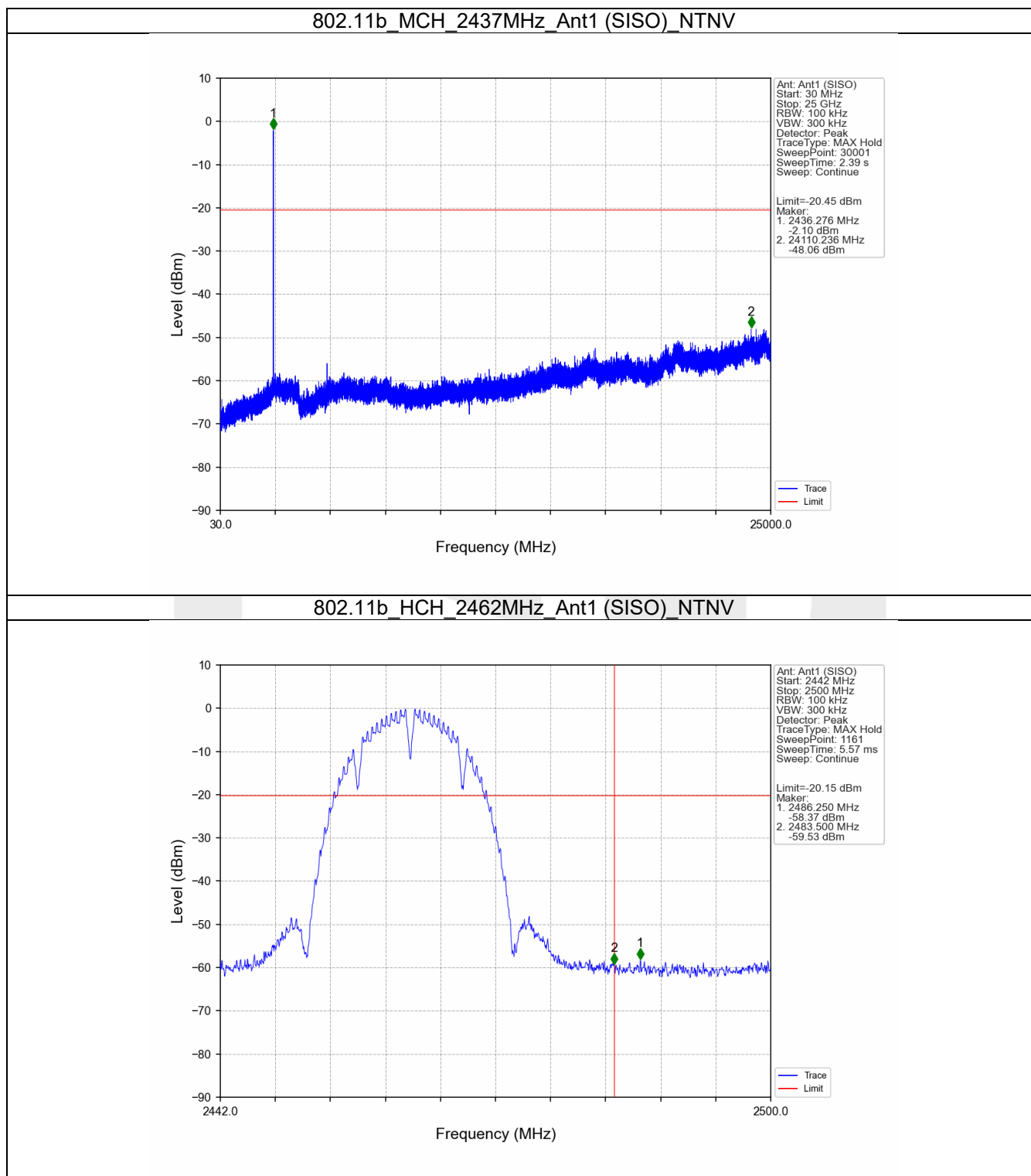
5.2.2 CSE

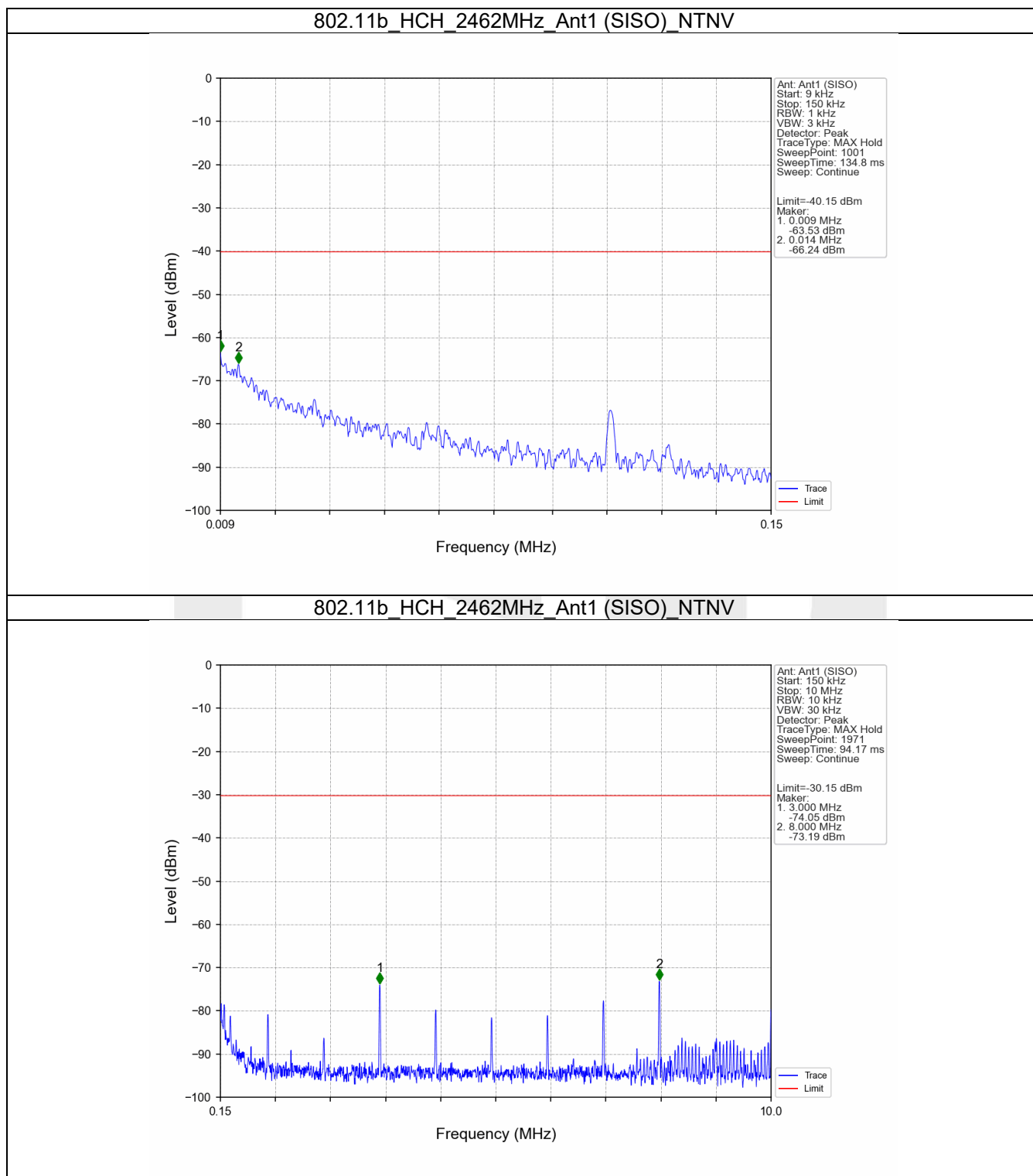


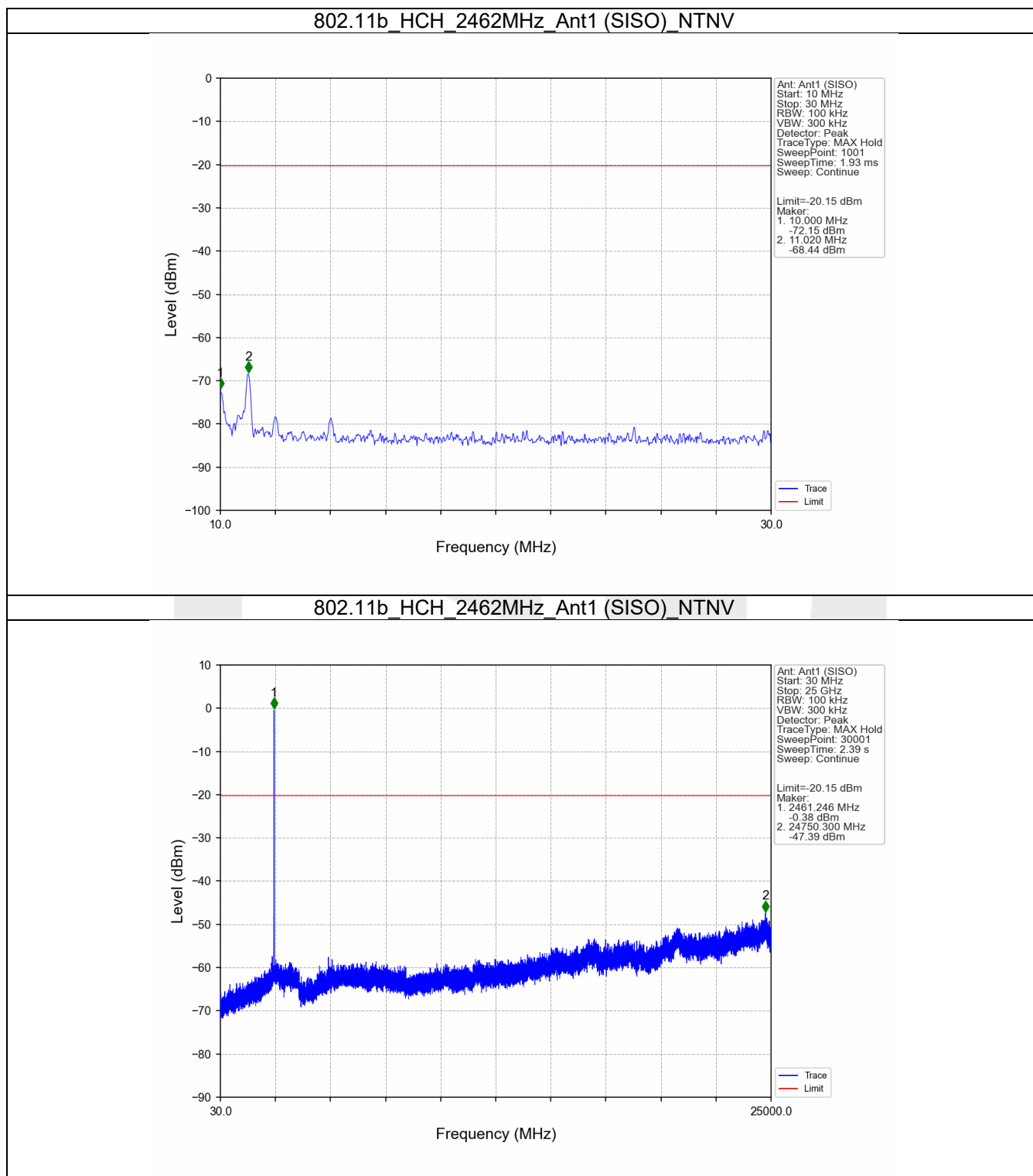


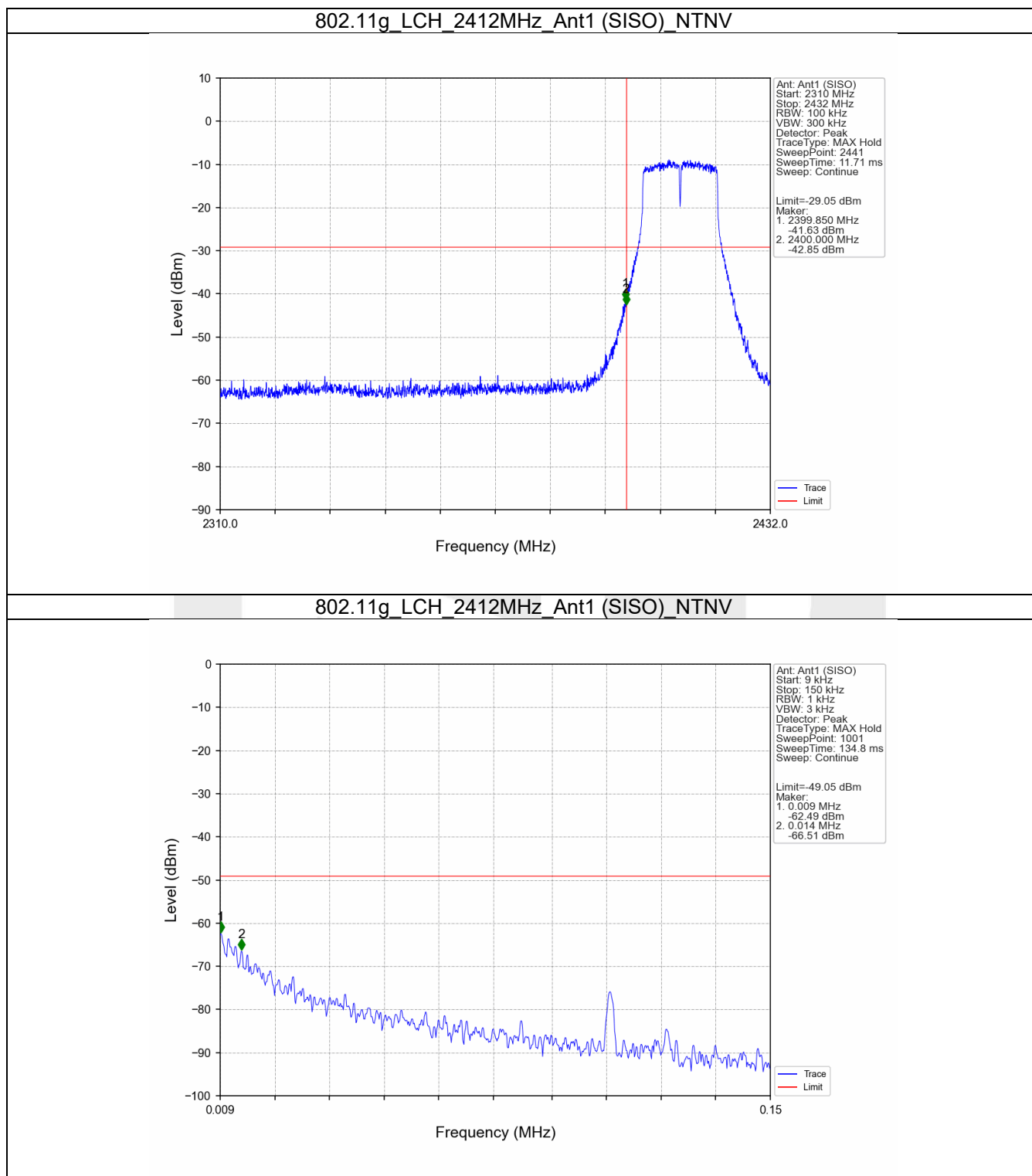


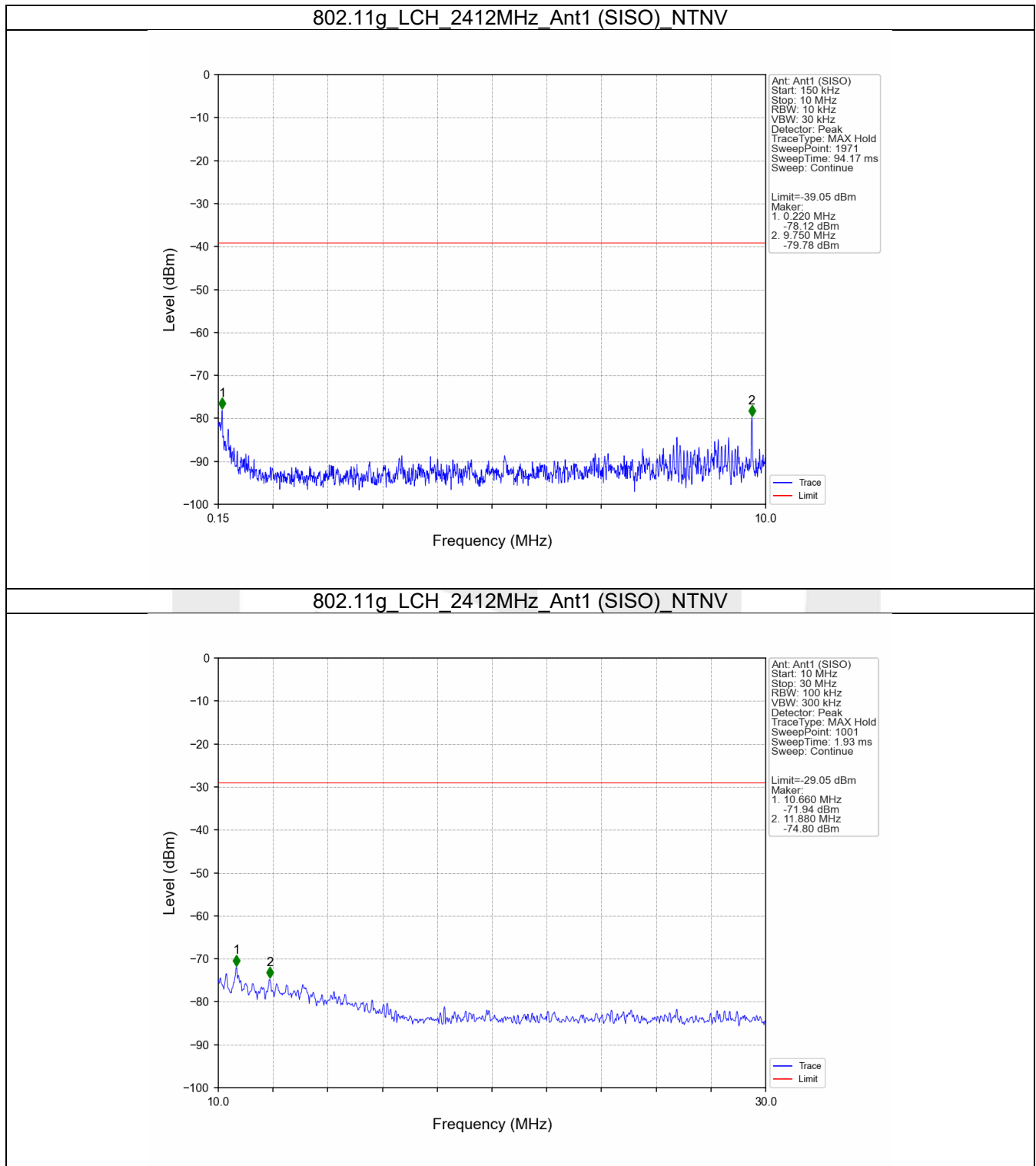


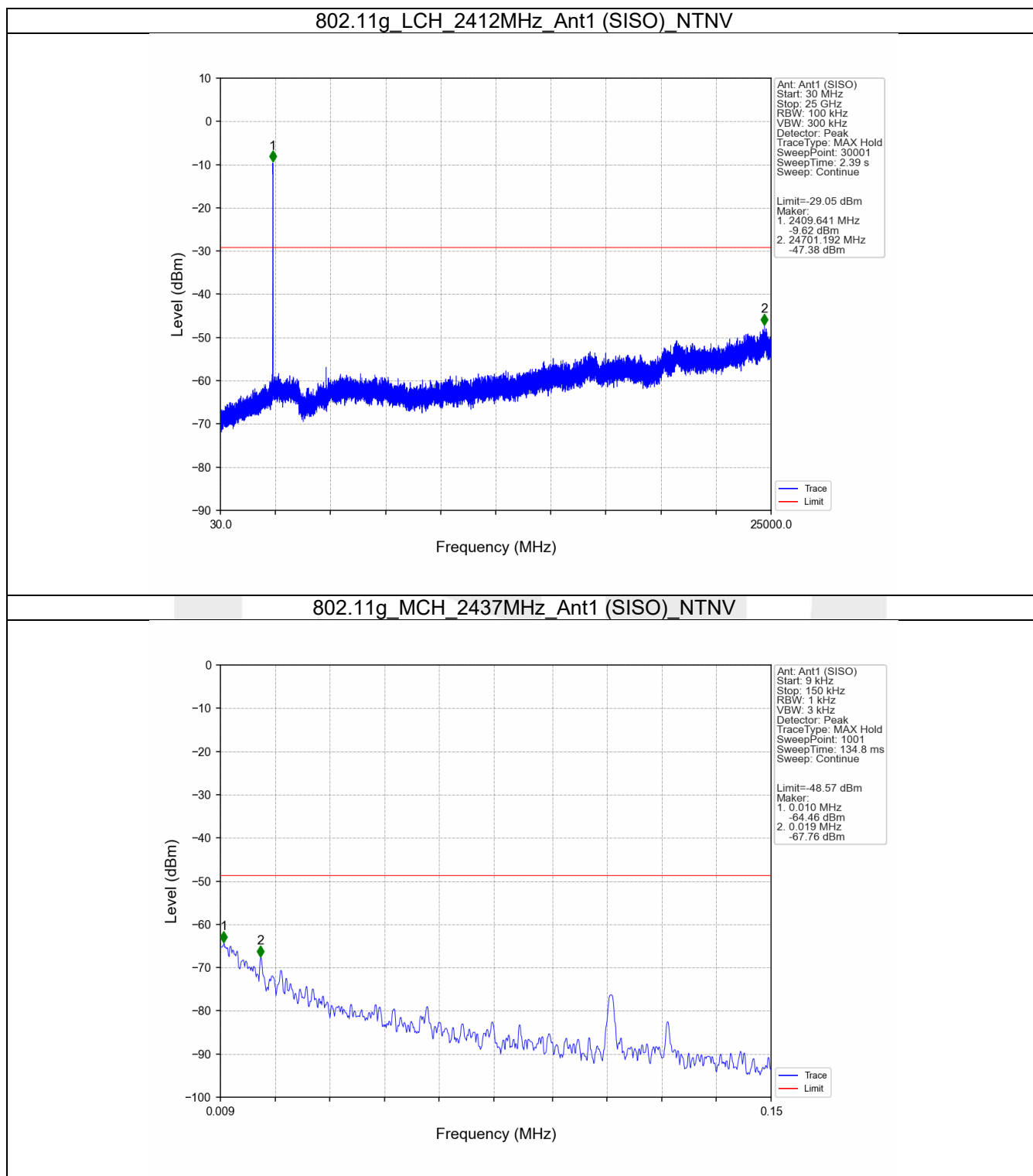


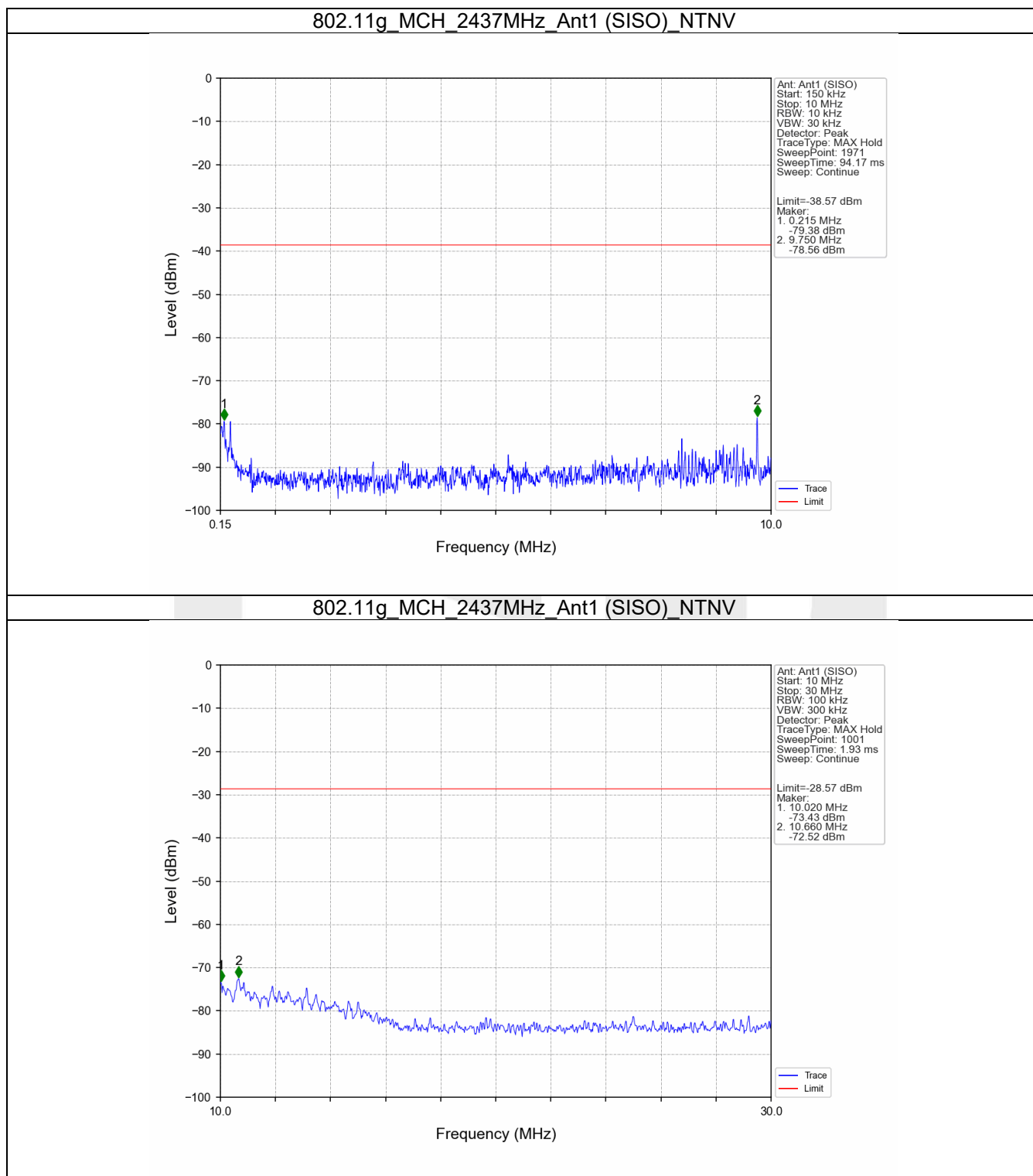


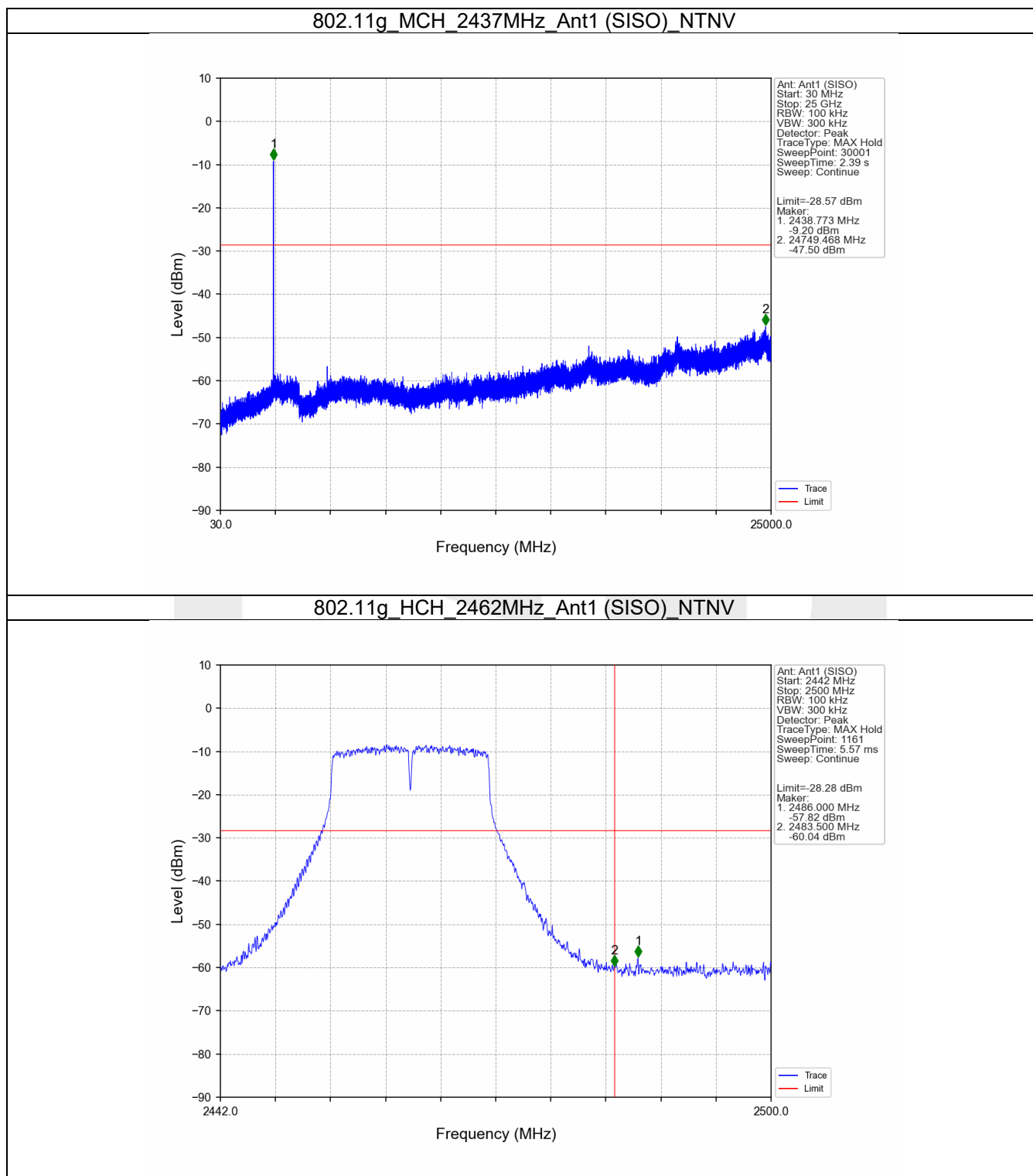


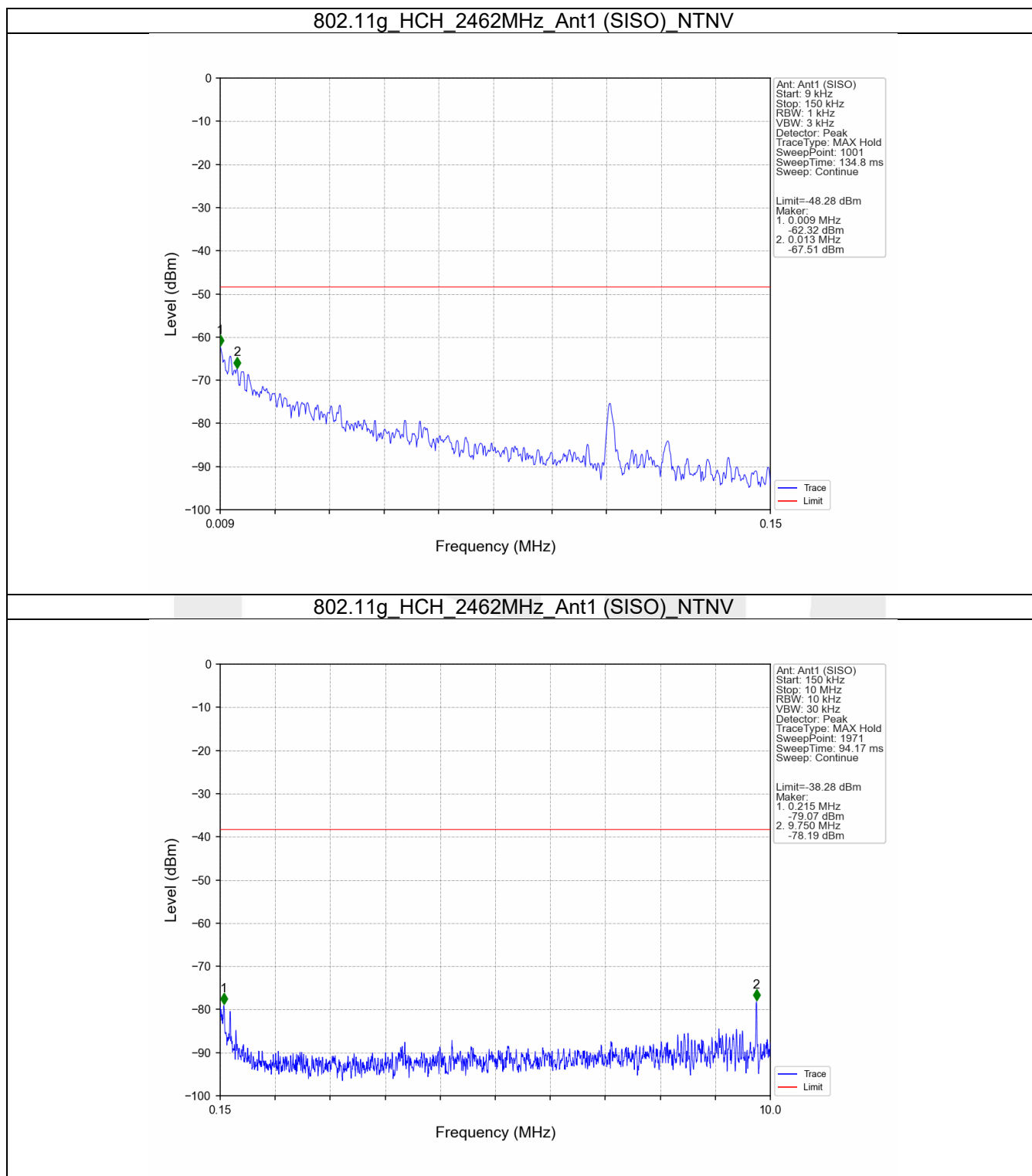


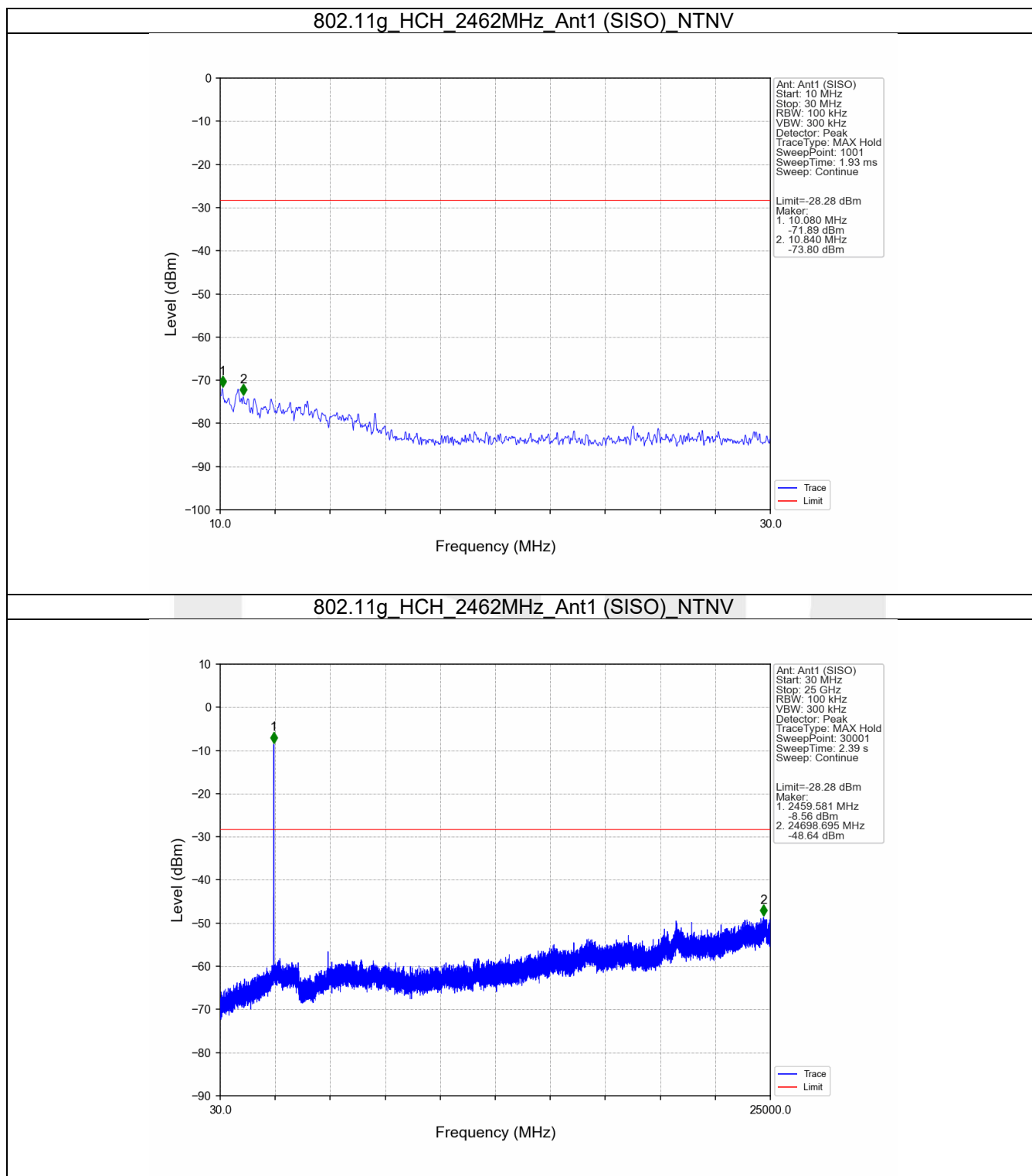


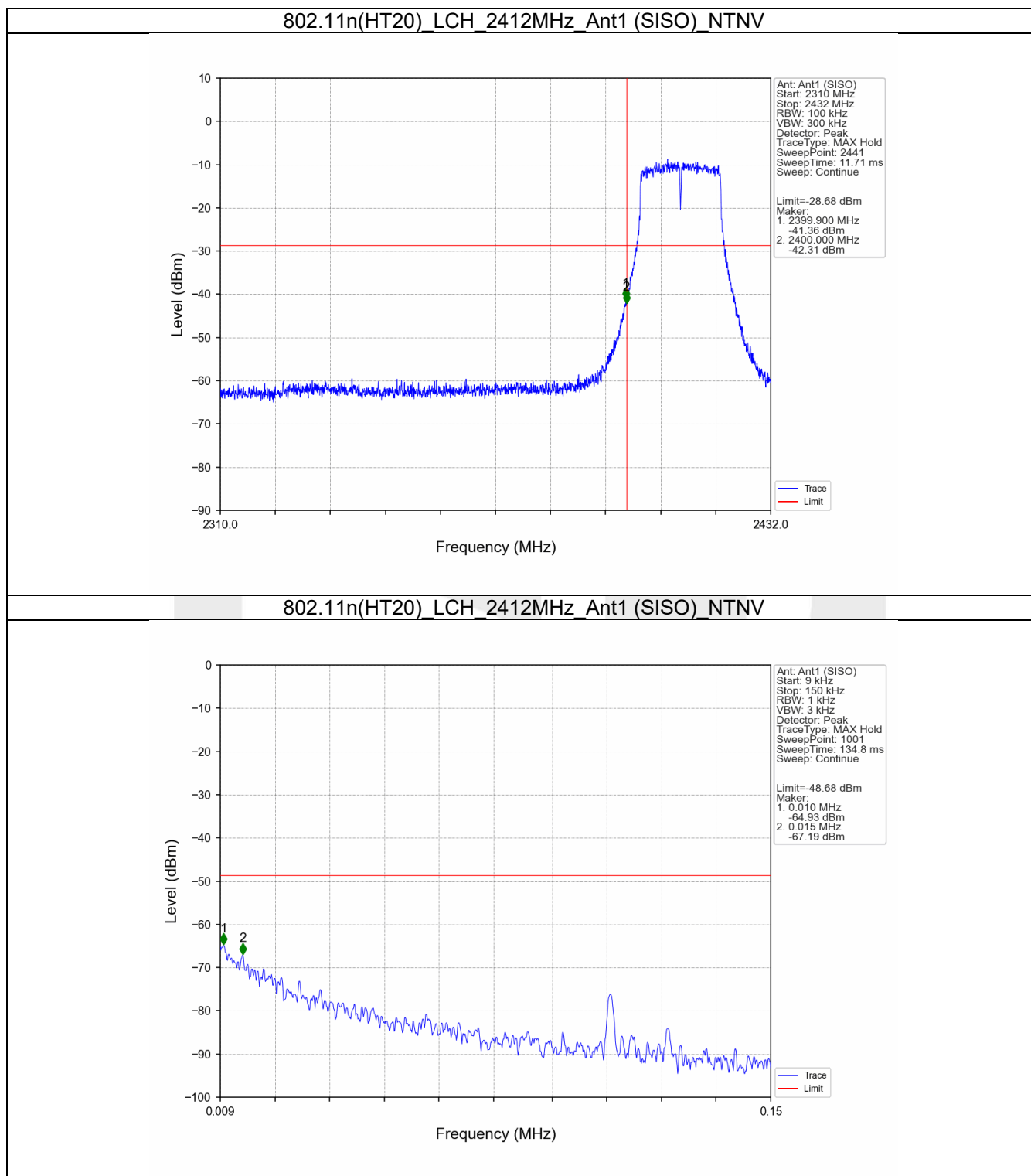


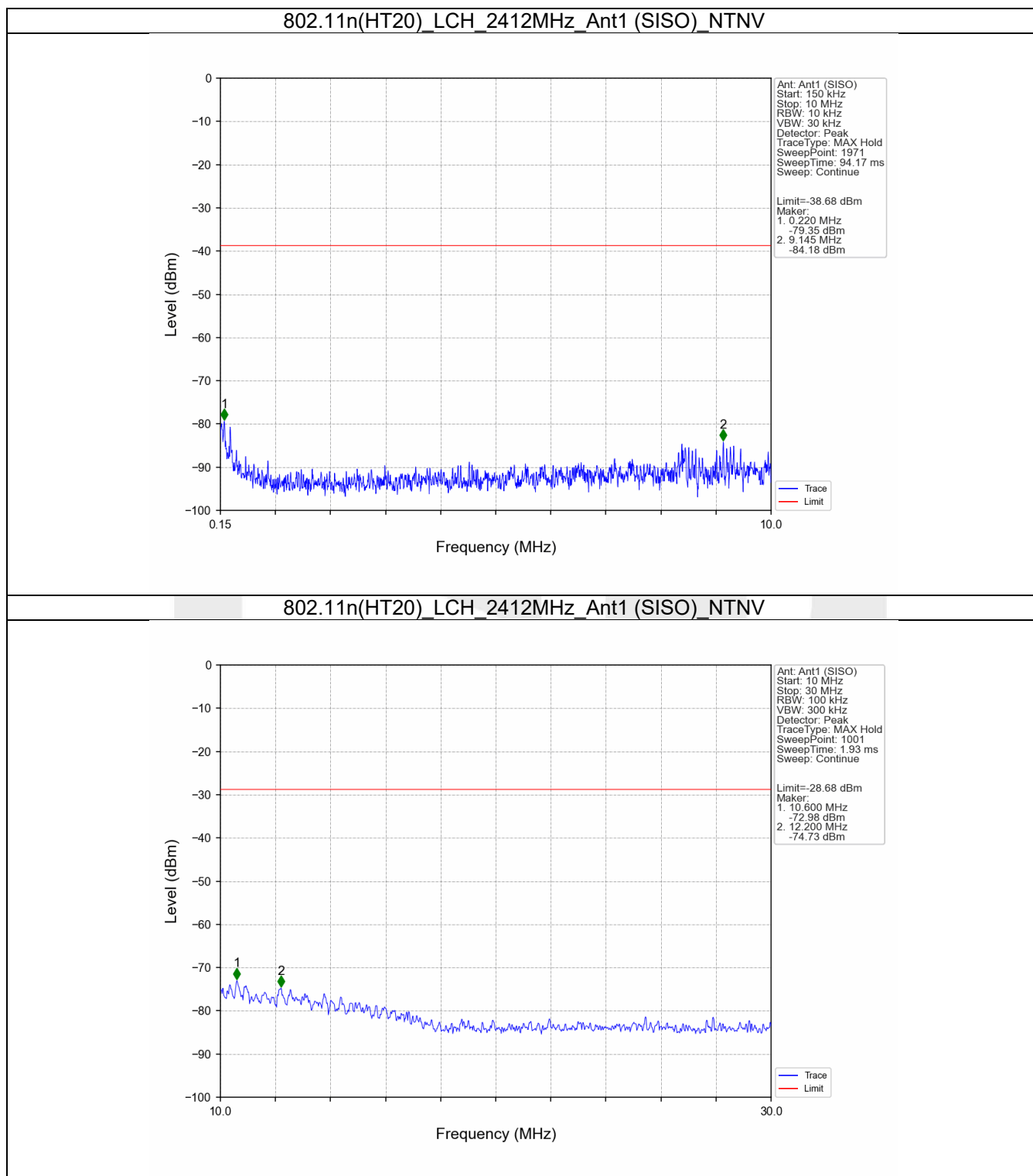


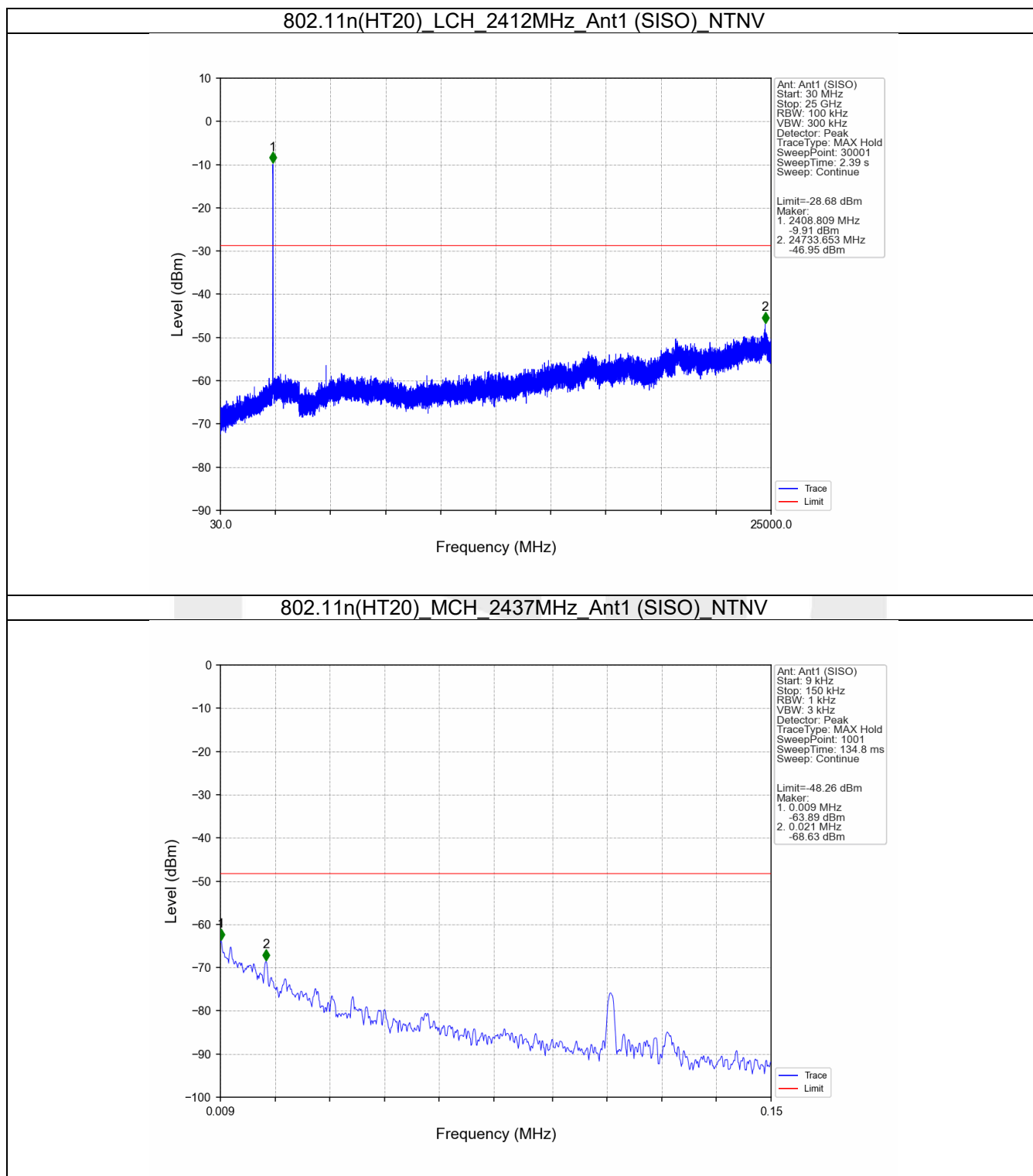


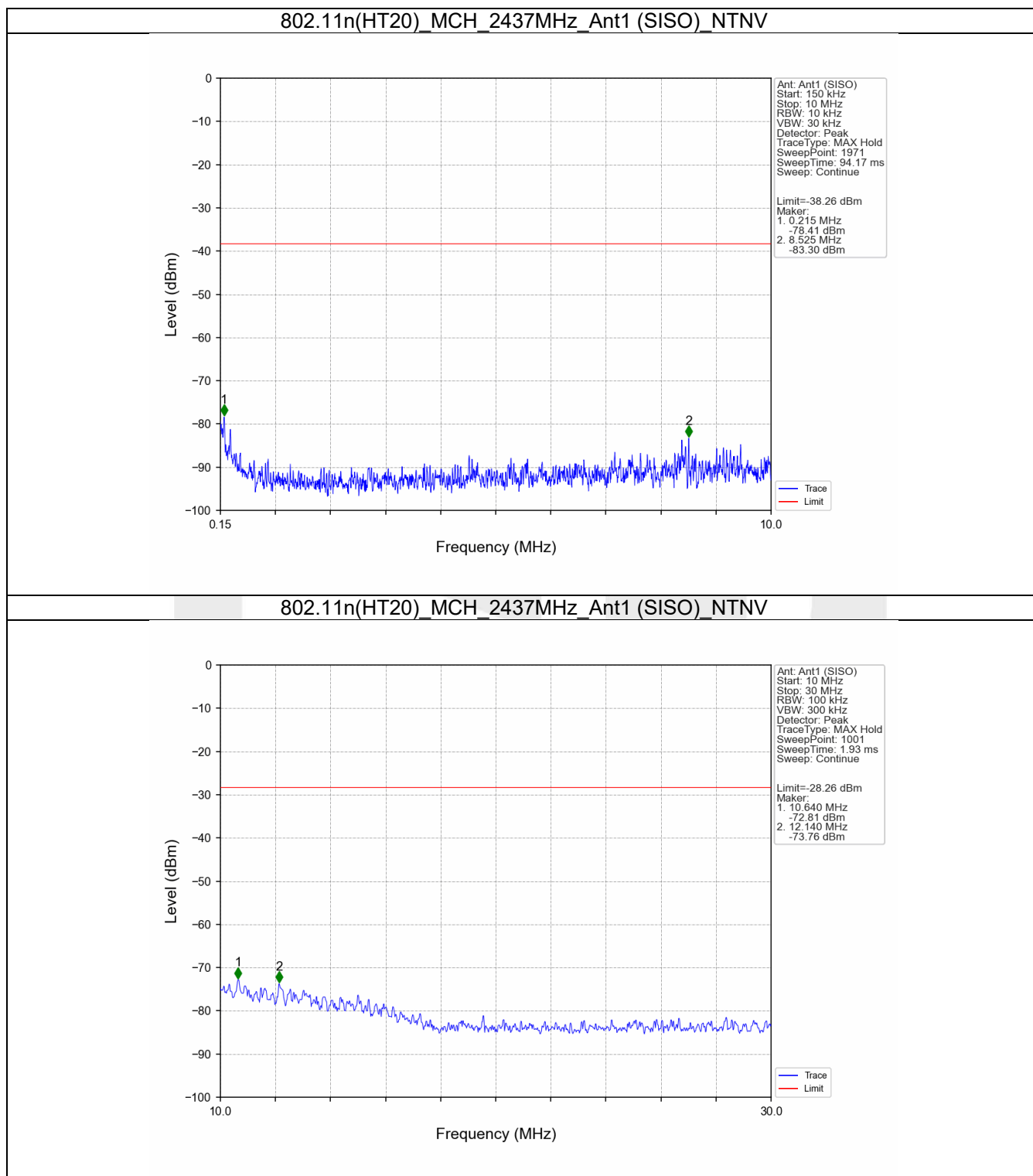


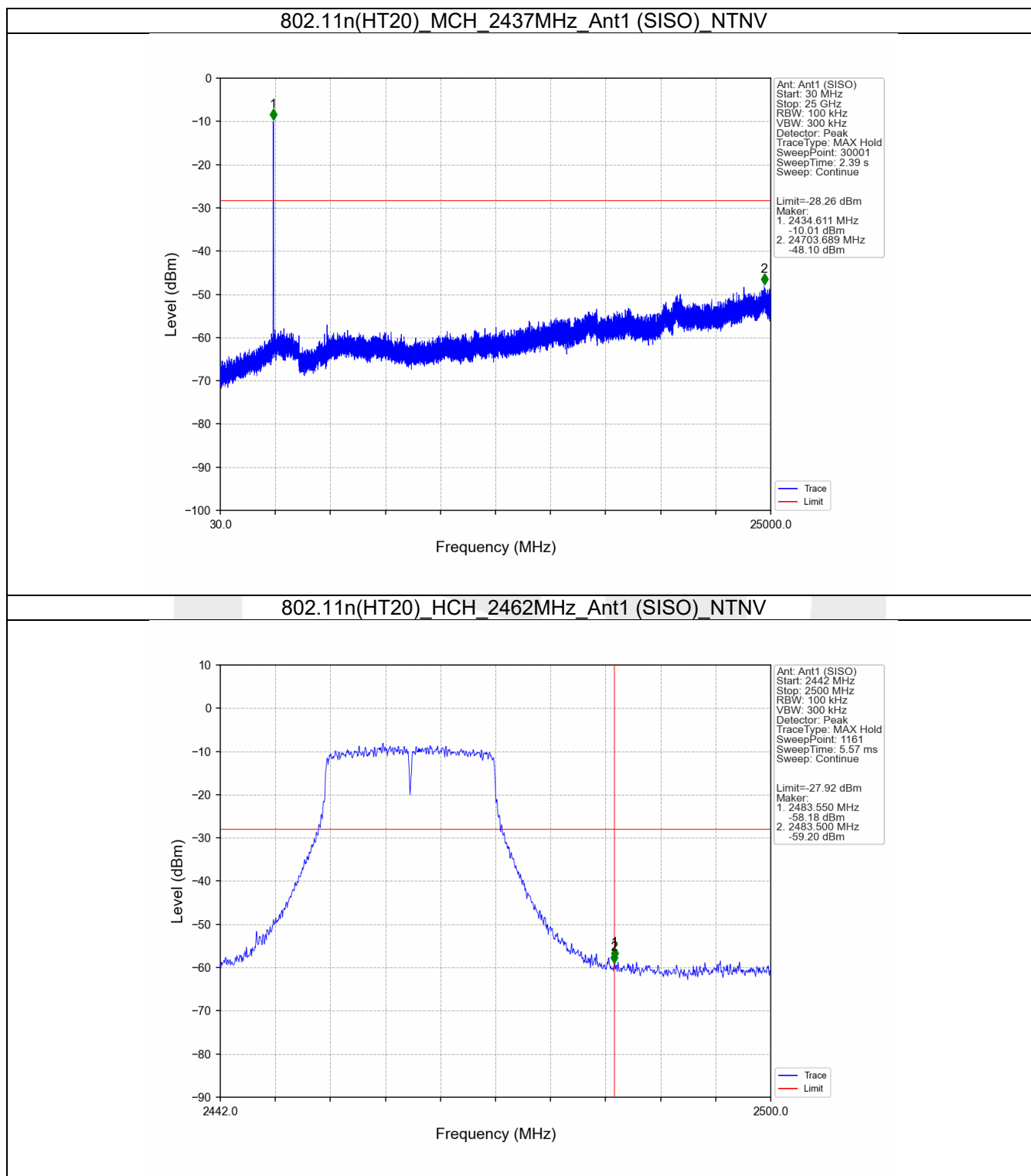


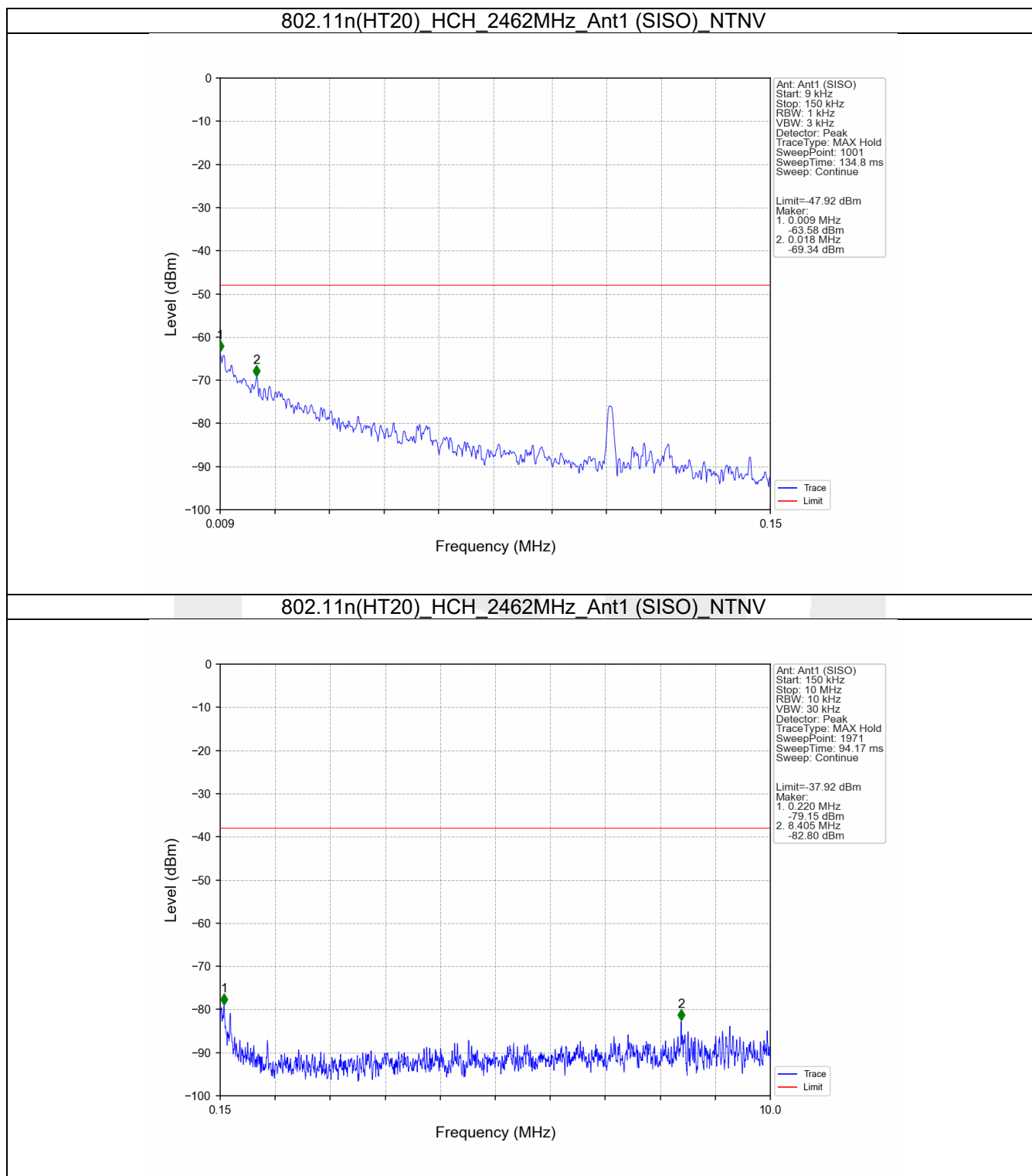


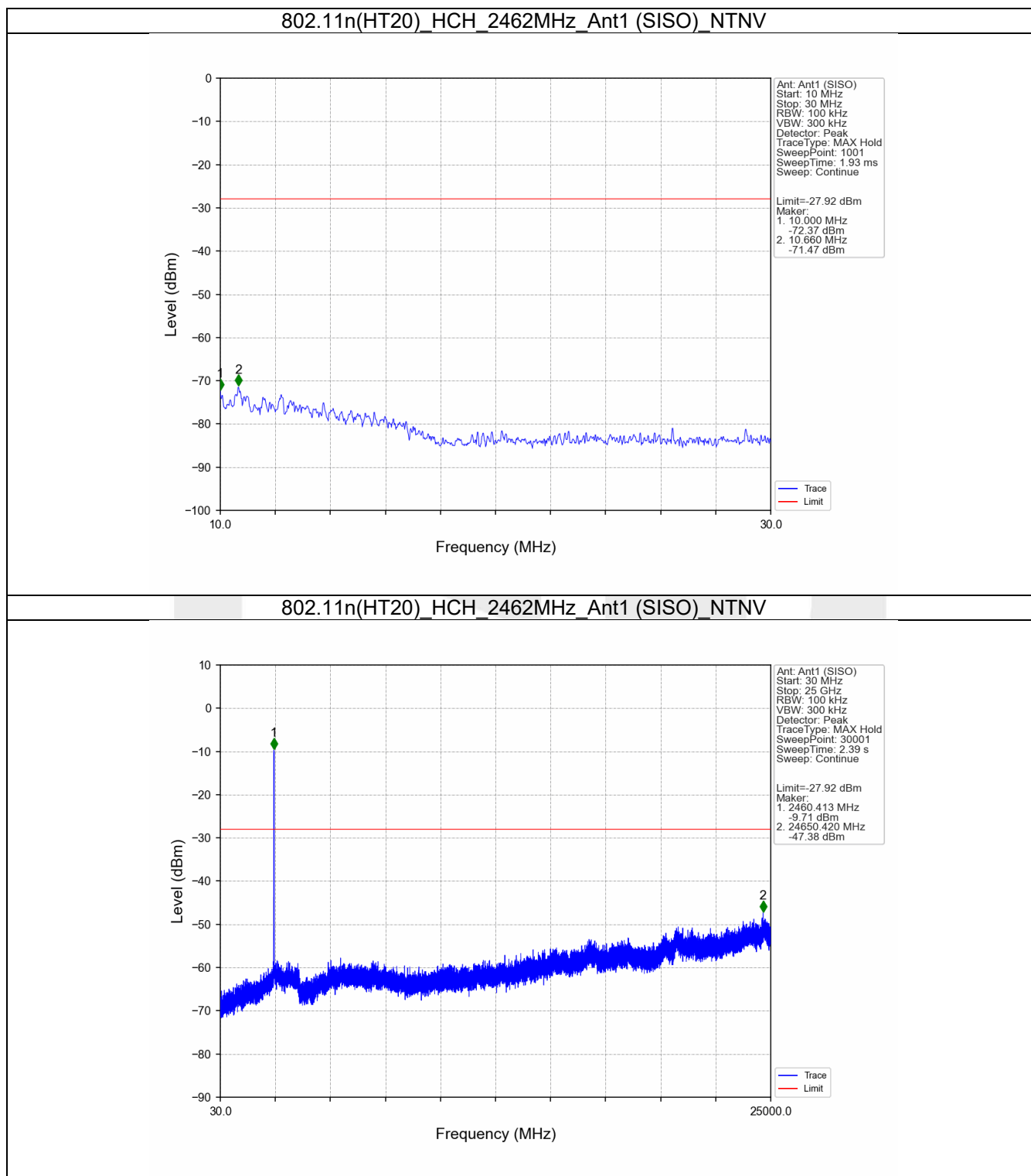












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