

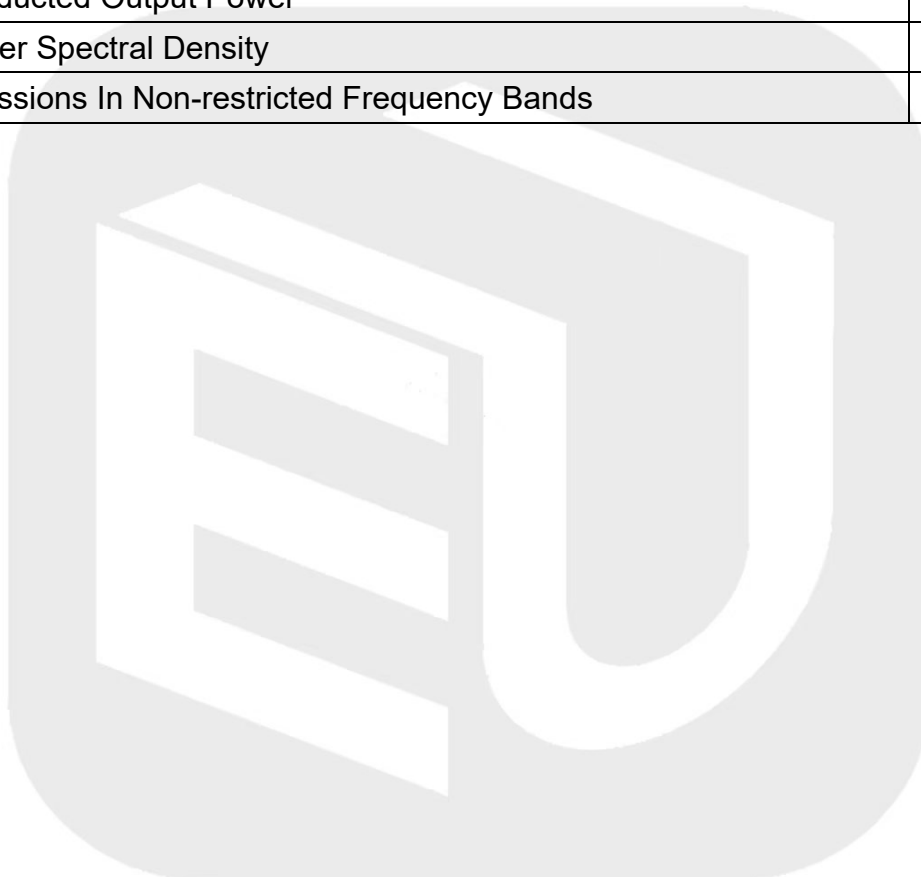
ANNEX E TEST DATA

For

Project No.:	8333EU011306W
Client:	Shenzhen Qianhai Runway Technology Co., Ltd.
Product Description:	Automatic Pet Feeder
Model No.:	F28-C
FCC ID:	2BR3W-F28-C
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2025-08-27

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

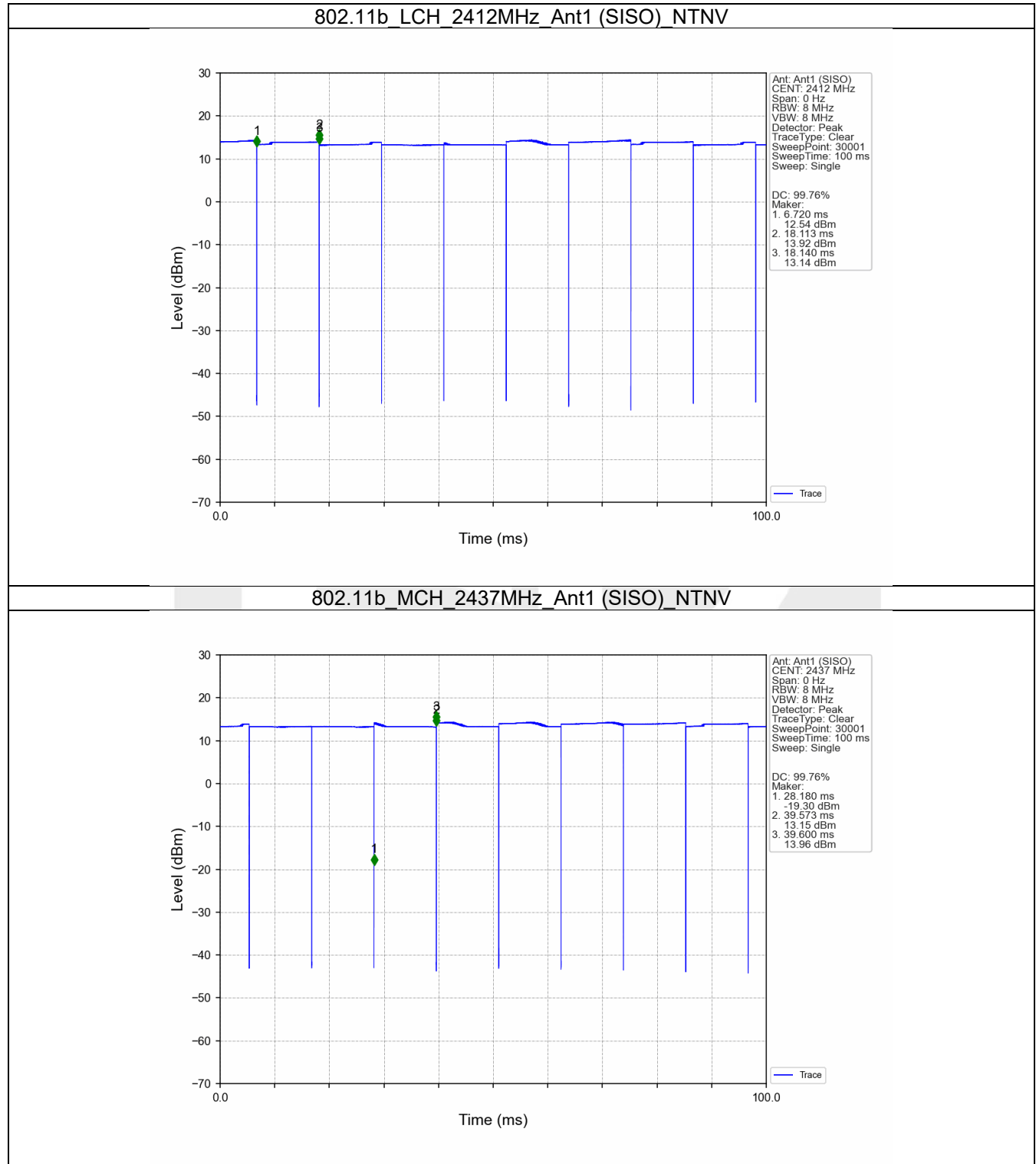
1.1 Test Result

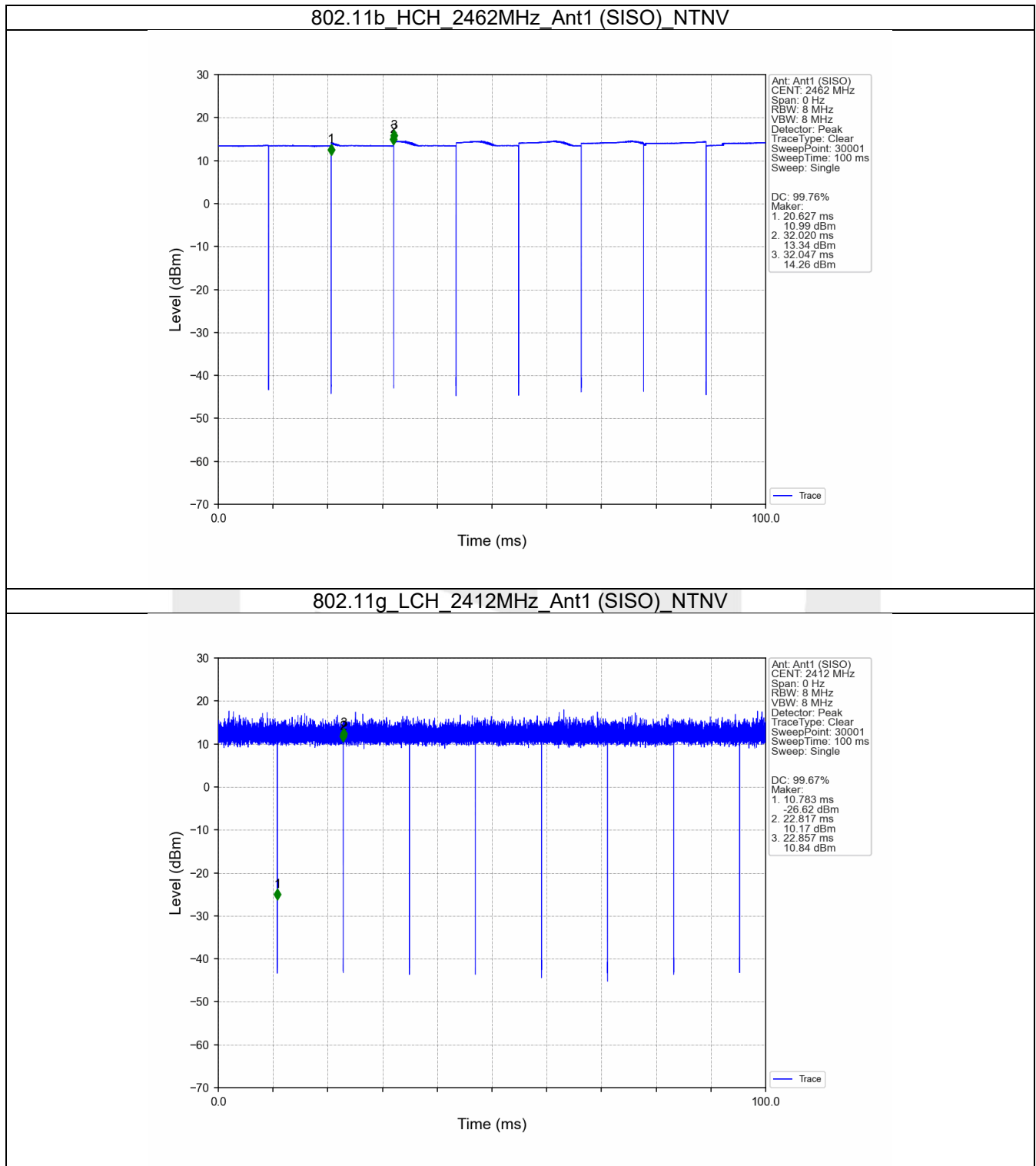
1.1.1 Ant1

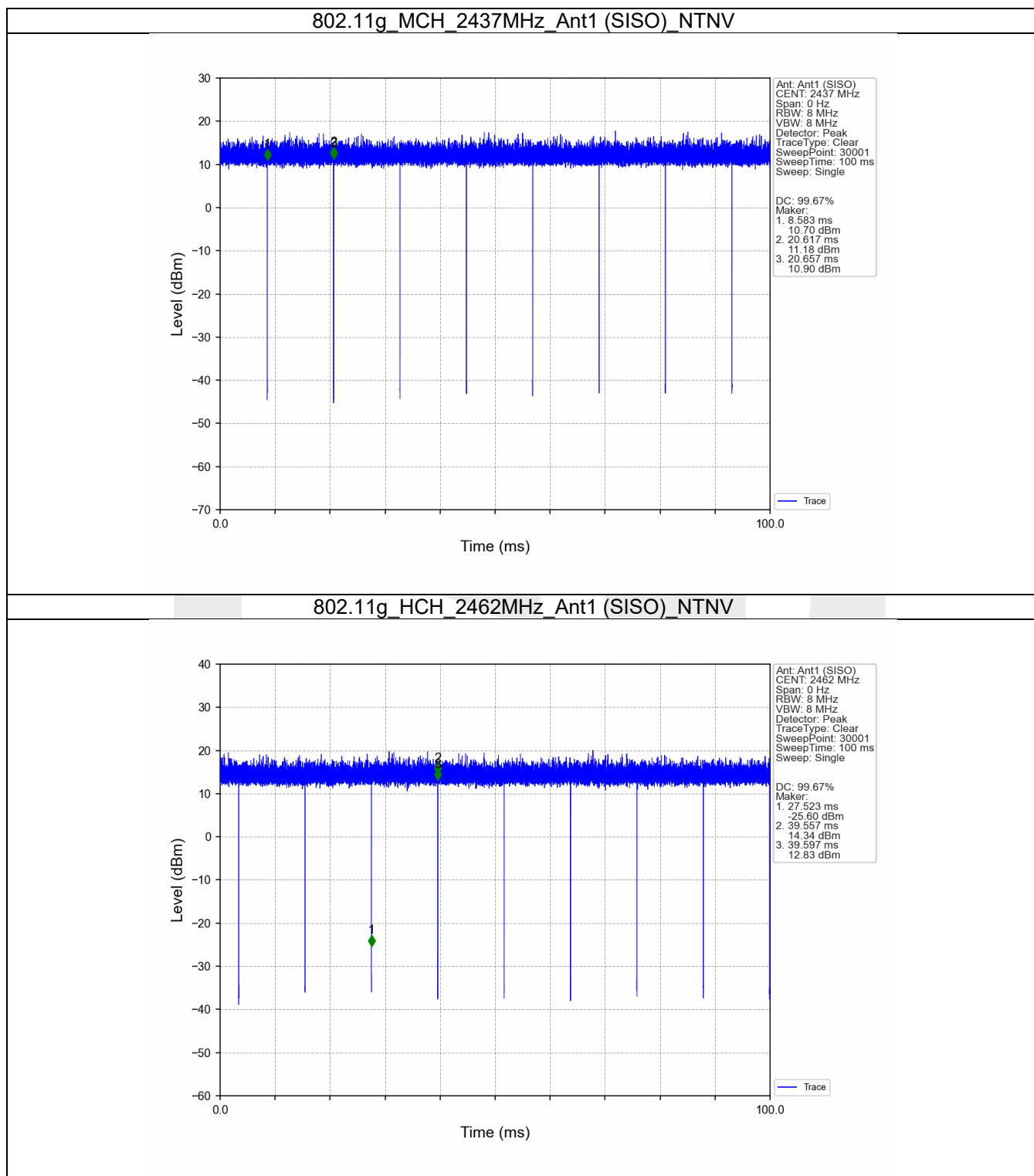
Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	11.393	11.420	99.76	0.01	0.03
		2437	11.393	11.420	99.76	0.01	0.03
		2462	11.393	11.420	99.76	0.01	0.03
802.11g	SISO	2412	12.034	12.074	99.67	0.01	0.14
		2437	12.034	12.074	99.67	0.01	0.11
		2462	12.034	12.074	99.67	0.01	0.14
802.11n (HT20)	SISO	2412	11.123	11.163	99.64	0.02	0.21
		2437	11.130	11.167	99.67	0.01	0.15
		2462	11.124	11.164	99.64	0.02	0.21
802.11n (HT40)	SISO	2422	5.376	5.417	99.24	0.03	0.41
		2437	5.376	5.417	99.24	0.03	0.45
		2452	5.376	5.418	99.22	0.03	0.48

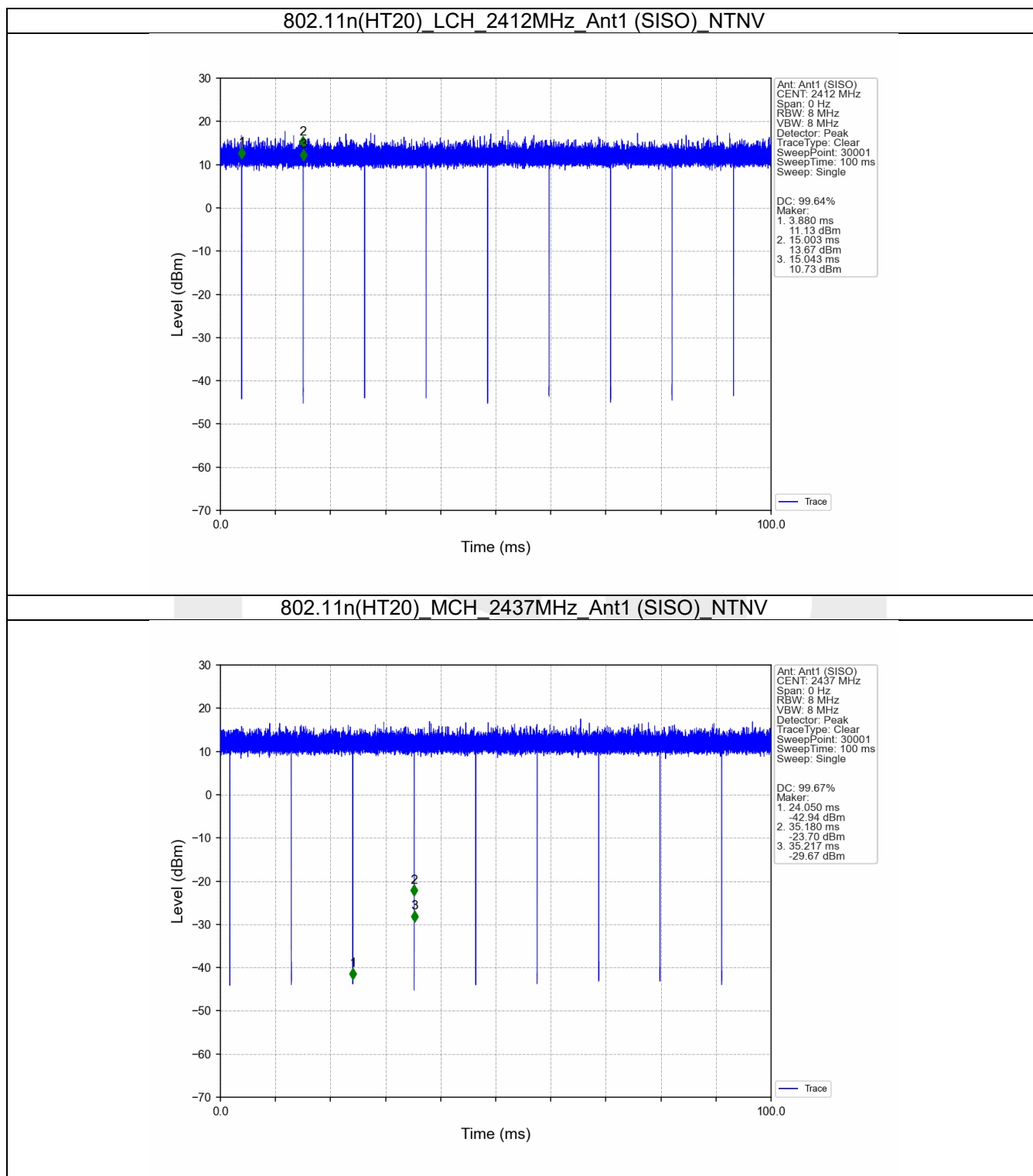
1.2 Test Graph

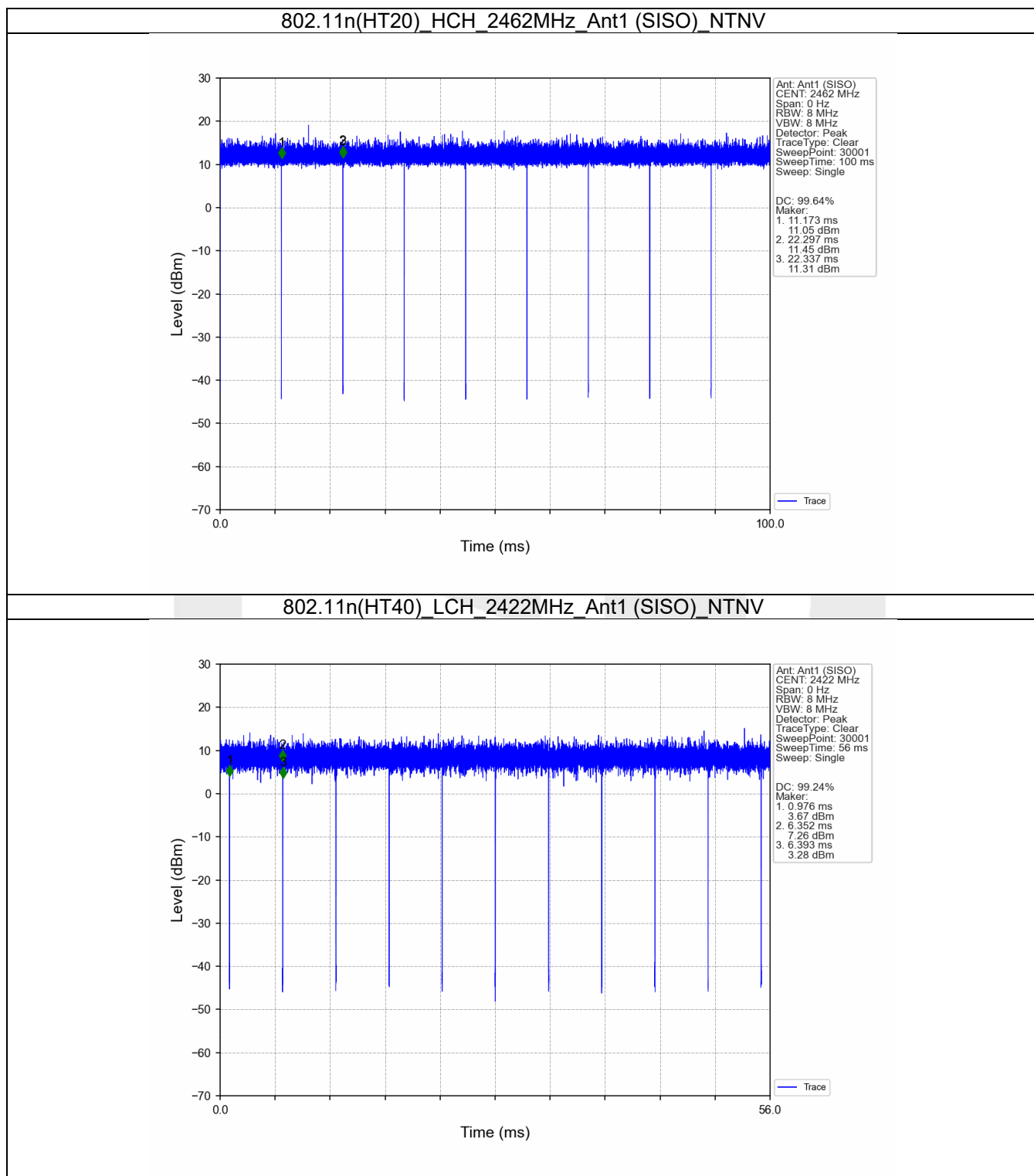
1.2.1 Ant1

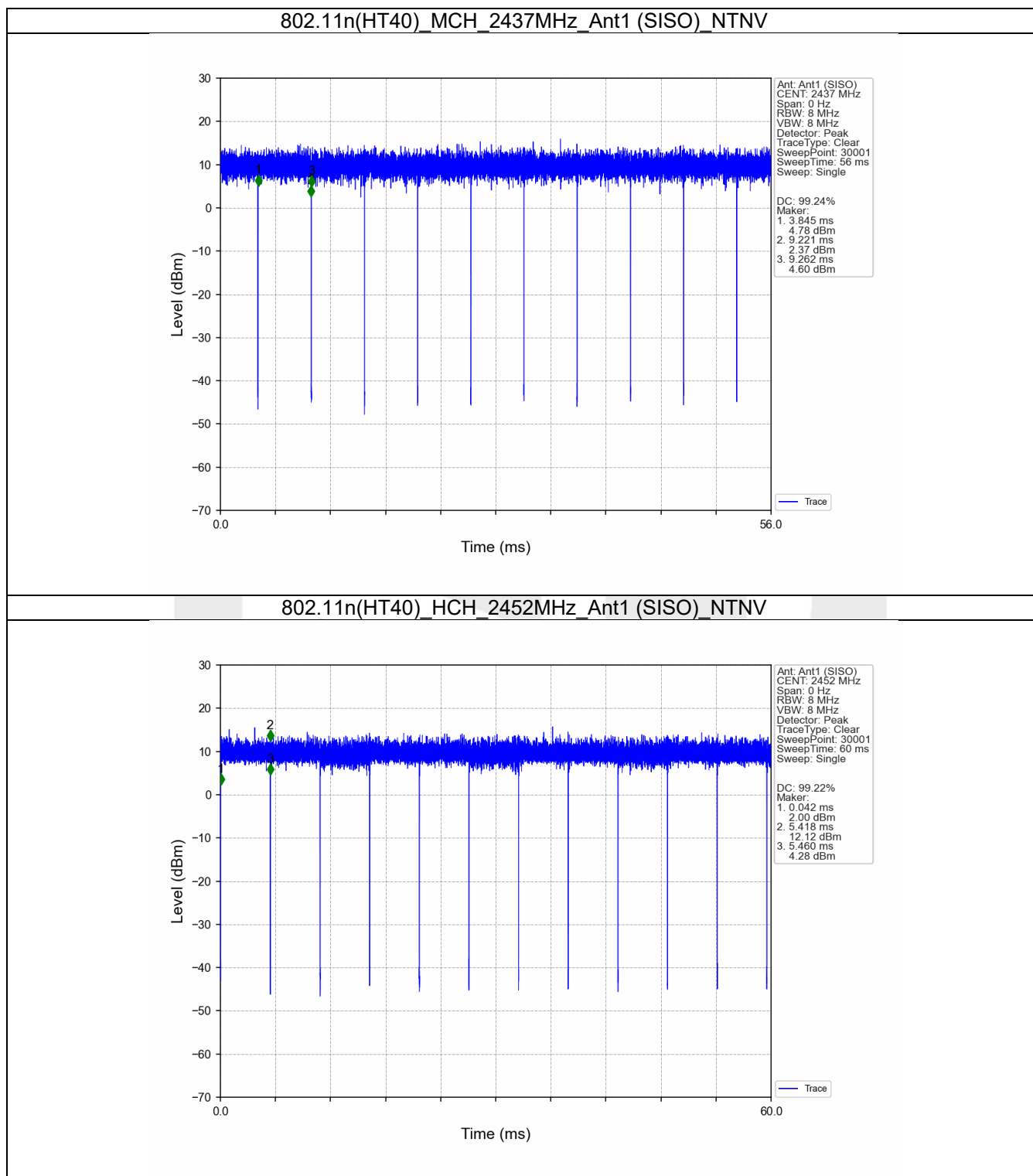












2. Bandwidth

2.1 Test Result

2.1.1 OBW

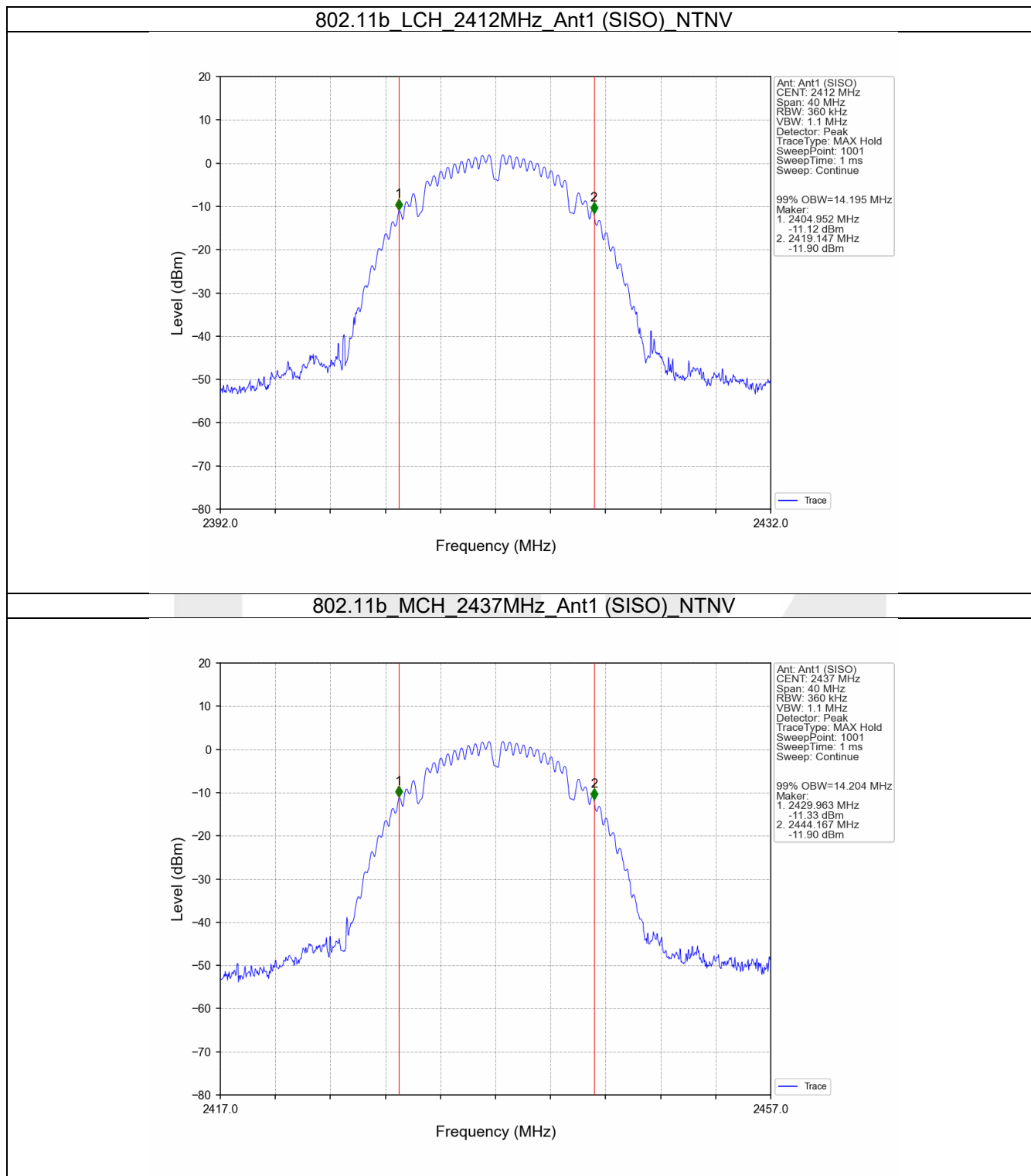
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.195	/	Pass
		2437	1	14.204	/	Pass
		2462	1	14.191	/	Pass
802.11g	SISO	2412	1	16.863	/	Pass
		2437	1	16.896	/	Pass
		2462	1	16.871	/	Pass
802.11n (HT20)	SISO	2412	1	17.116	/	Pass
		2437	1	17.622	/	Pass
		2462	1	17.599	/	Pass
802.11n (HT40)	SISO	2422	1	35.855	/	Pass
		2437	1	35.029	/	Pass
		2452	1	34.672	/	Pass

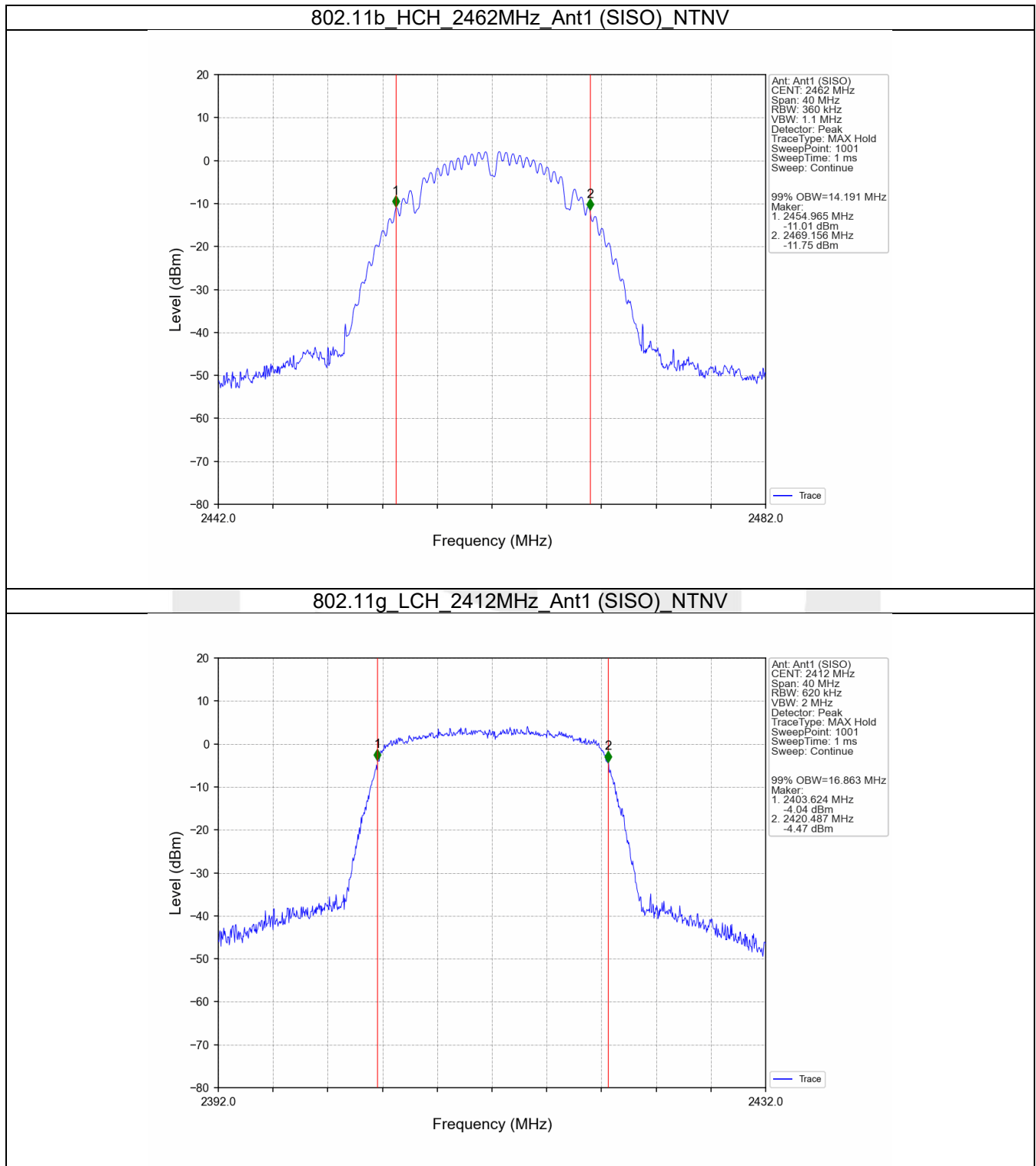
2.1.2 6dB BW

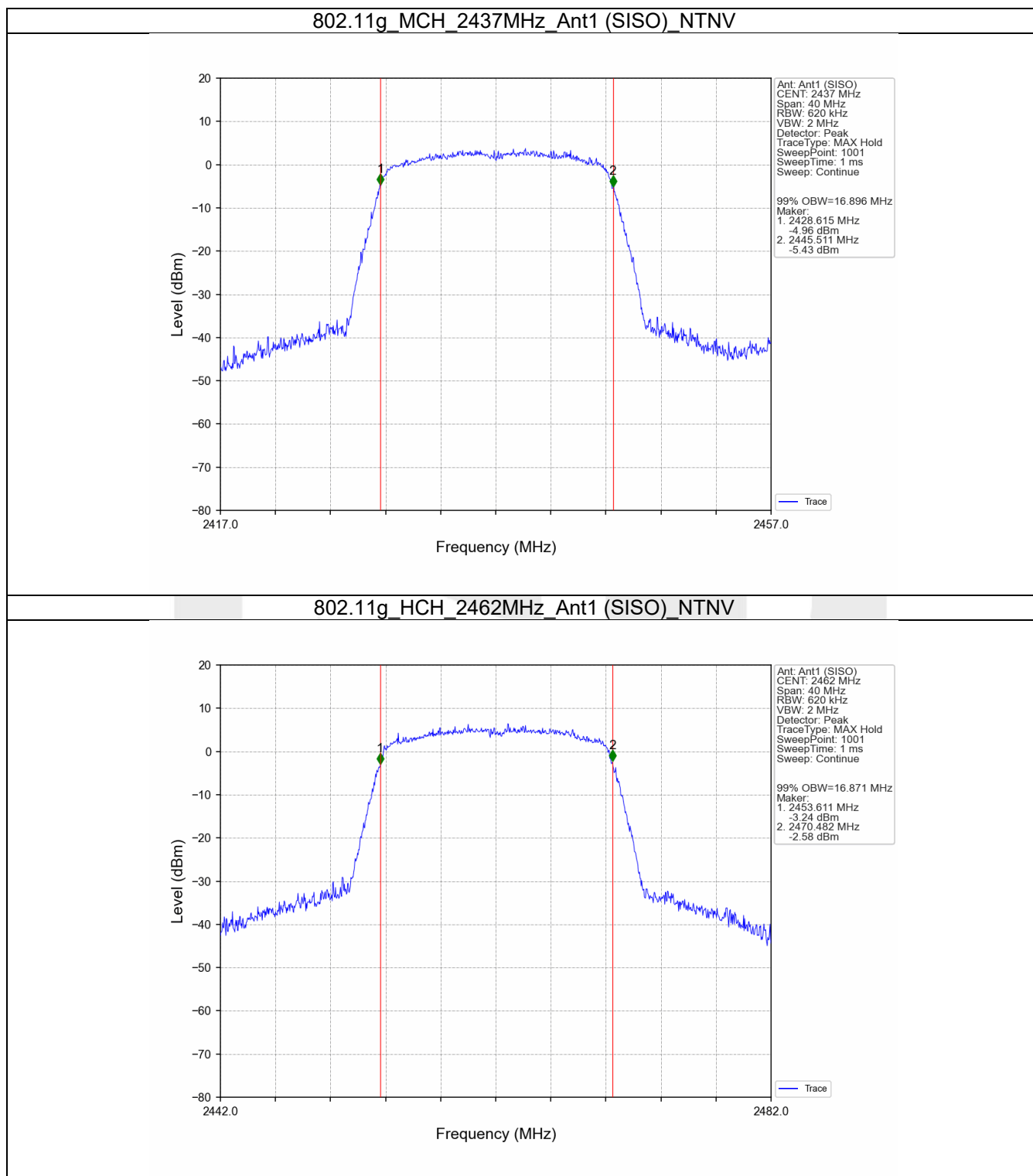
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.708	≥ 0.5	Pass
		2437	1	9.713	≥ 0.5	Pass
		2462	1	9.708	≥ 0.5	Pass
802.11g	SISO	2412	1	16.364	≥ 0.5	Pass
		2437	1	16.278	≥ 0.5	Pass
		2462	1	16.270	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.163	≥ 0.5	Pass
		2437	1	17.046	≥ 0.5	Pass
		2462	1	16.752	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.768	≥ 0.5	Pass
		2437	1	29.490	≥ 0.5	Pass
		2452	1	28.887	≥ 0.5	Pass

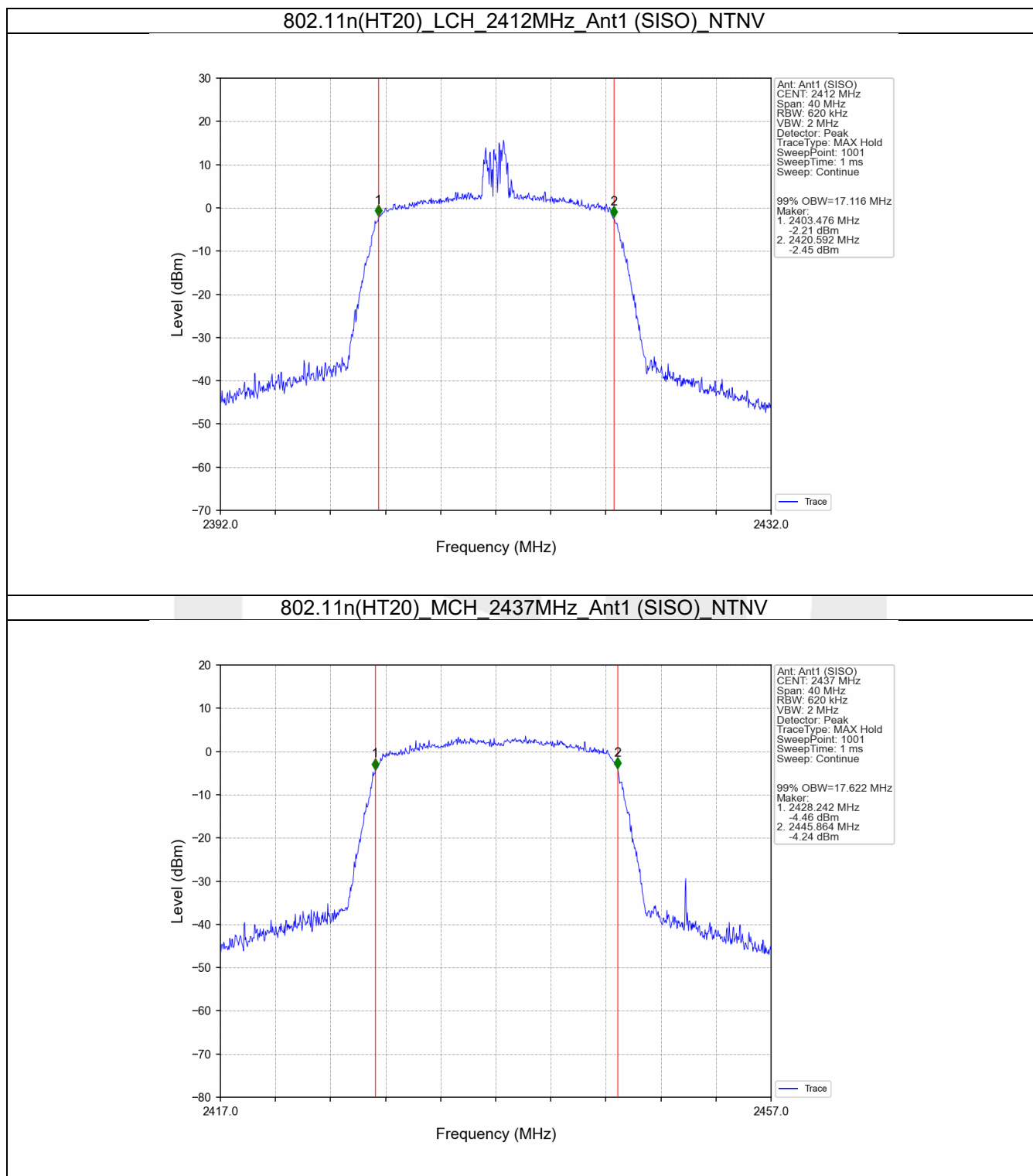
2.2 Test Graph

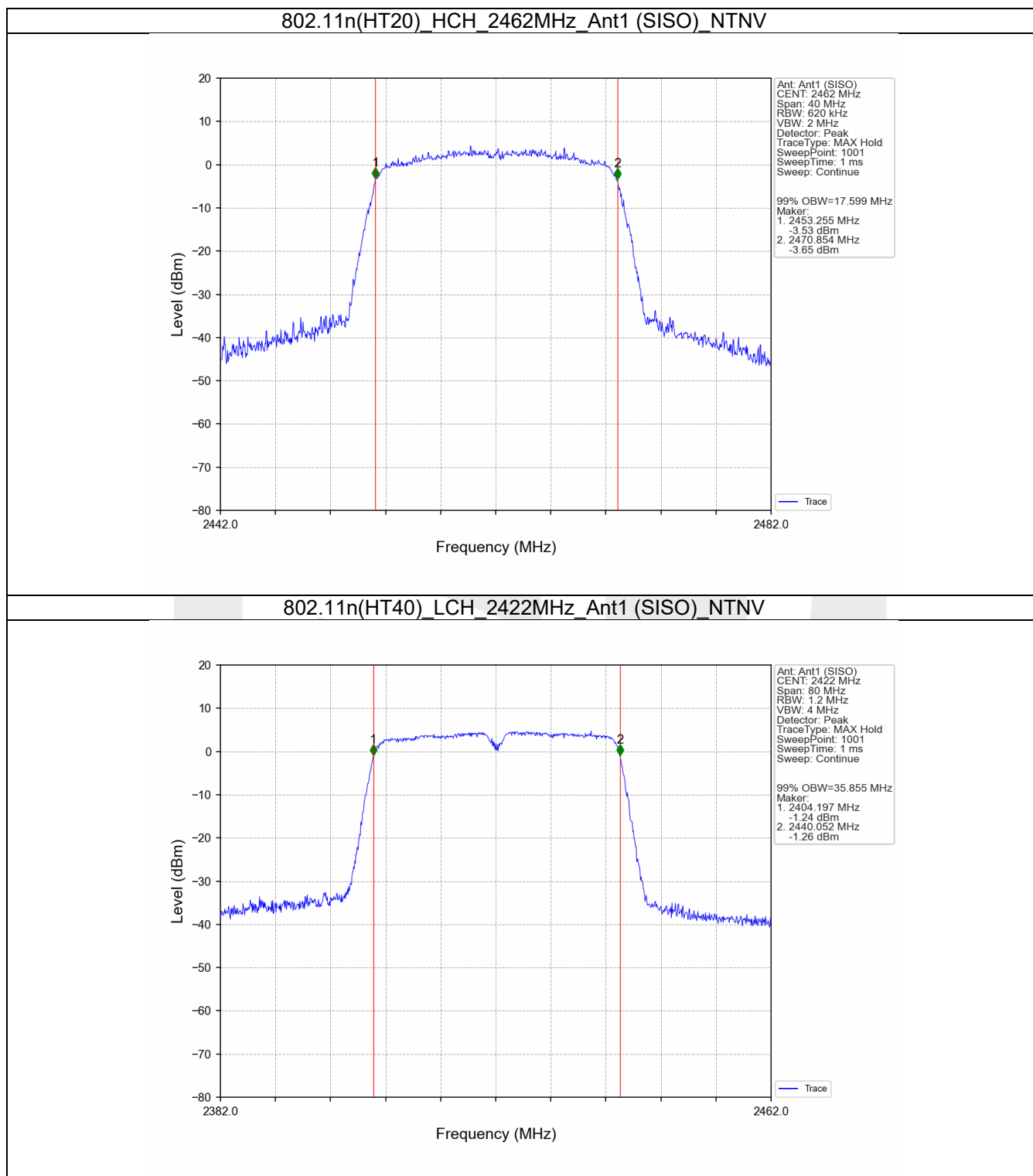
2.2.1 OBW

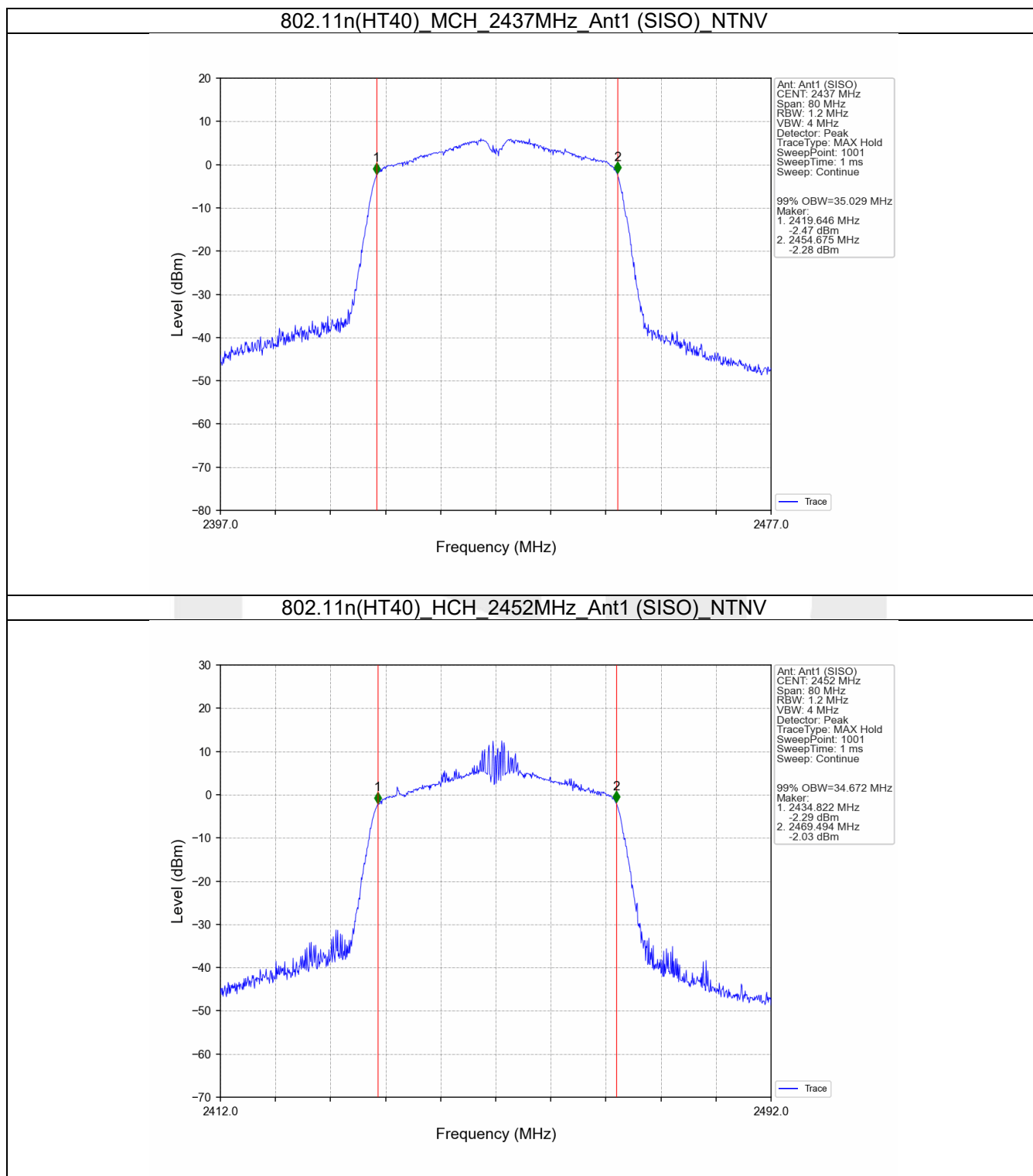




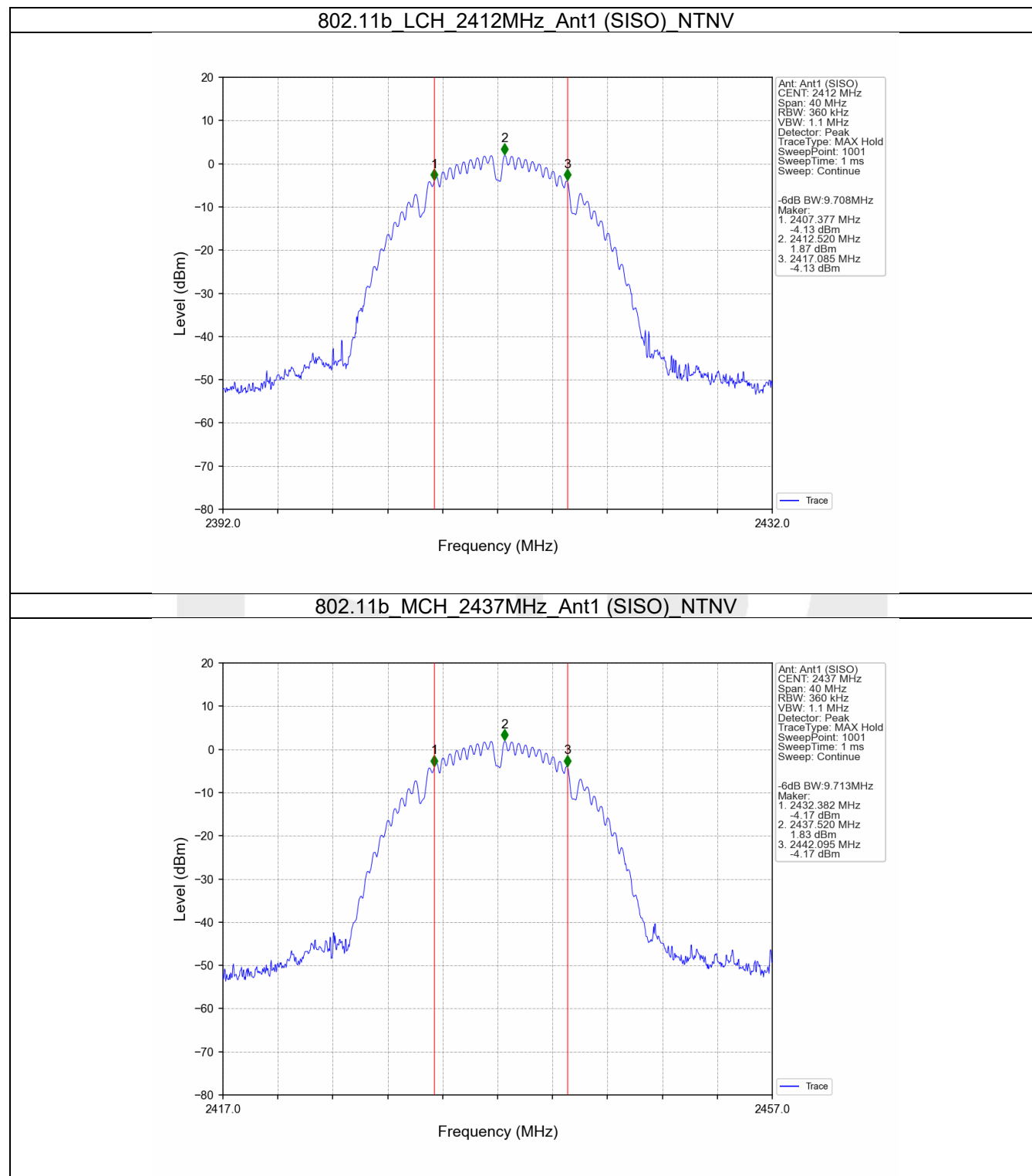


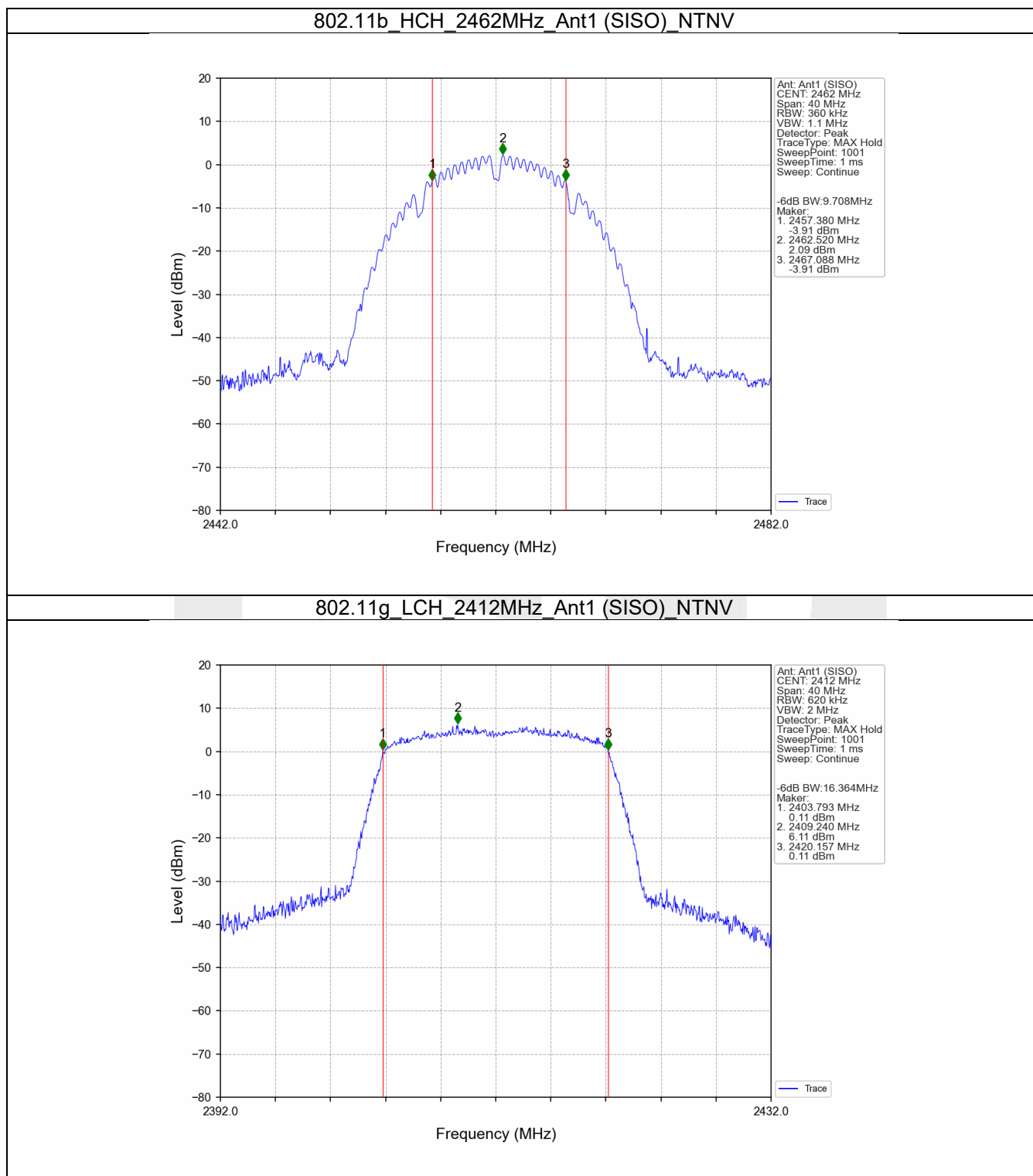


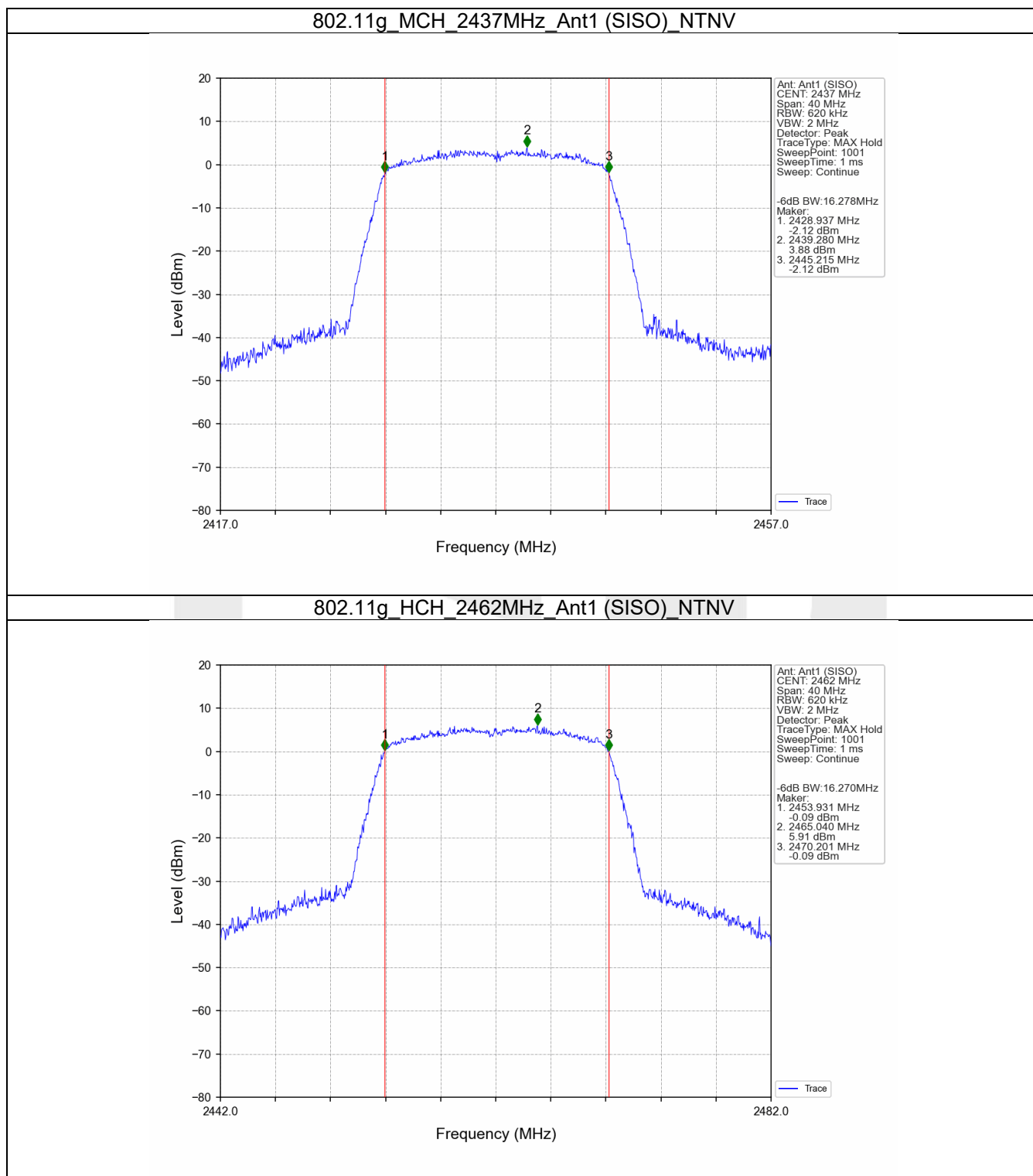


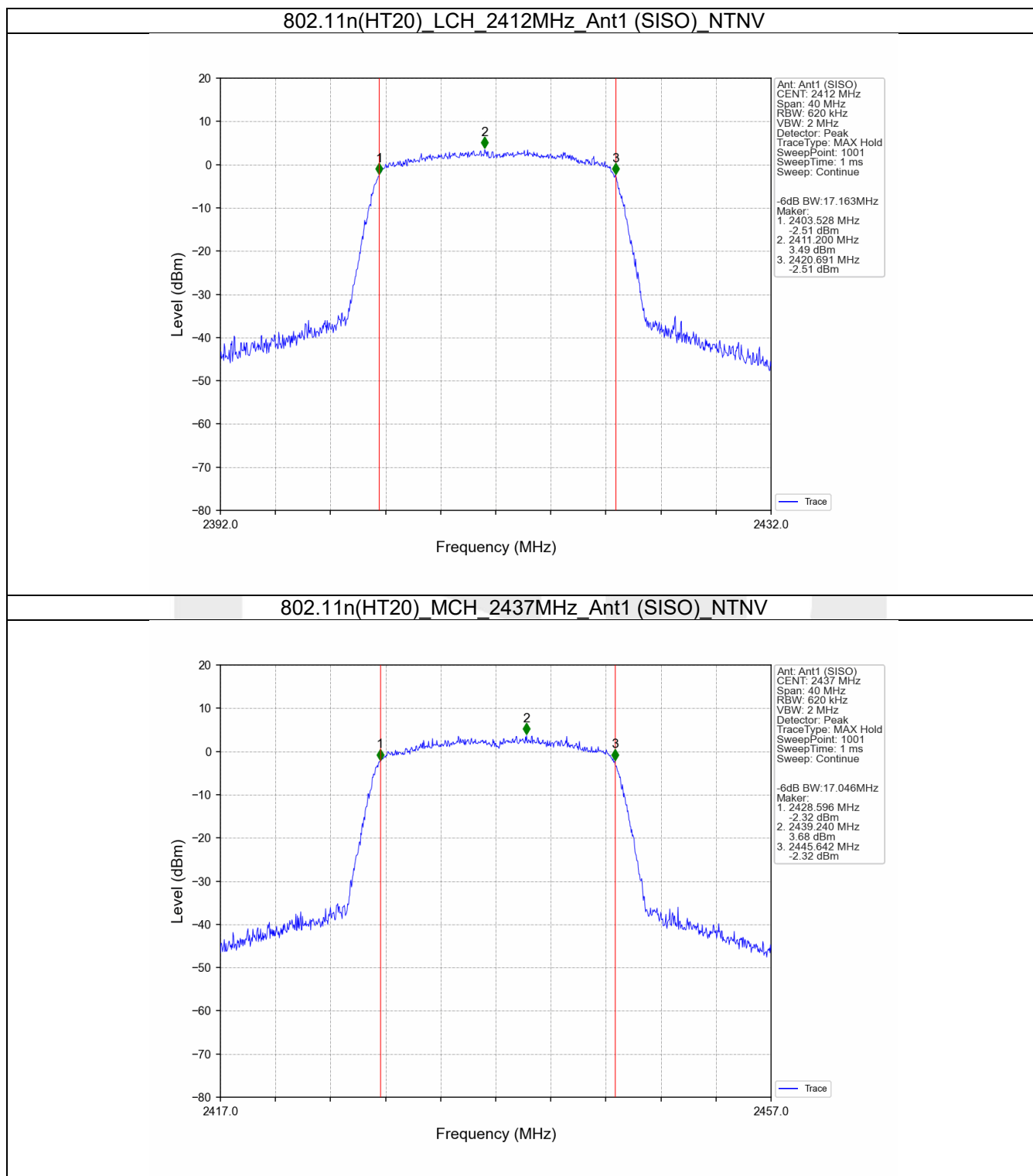


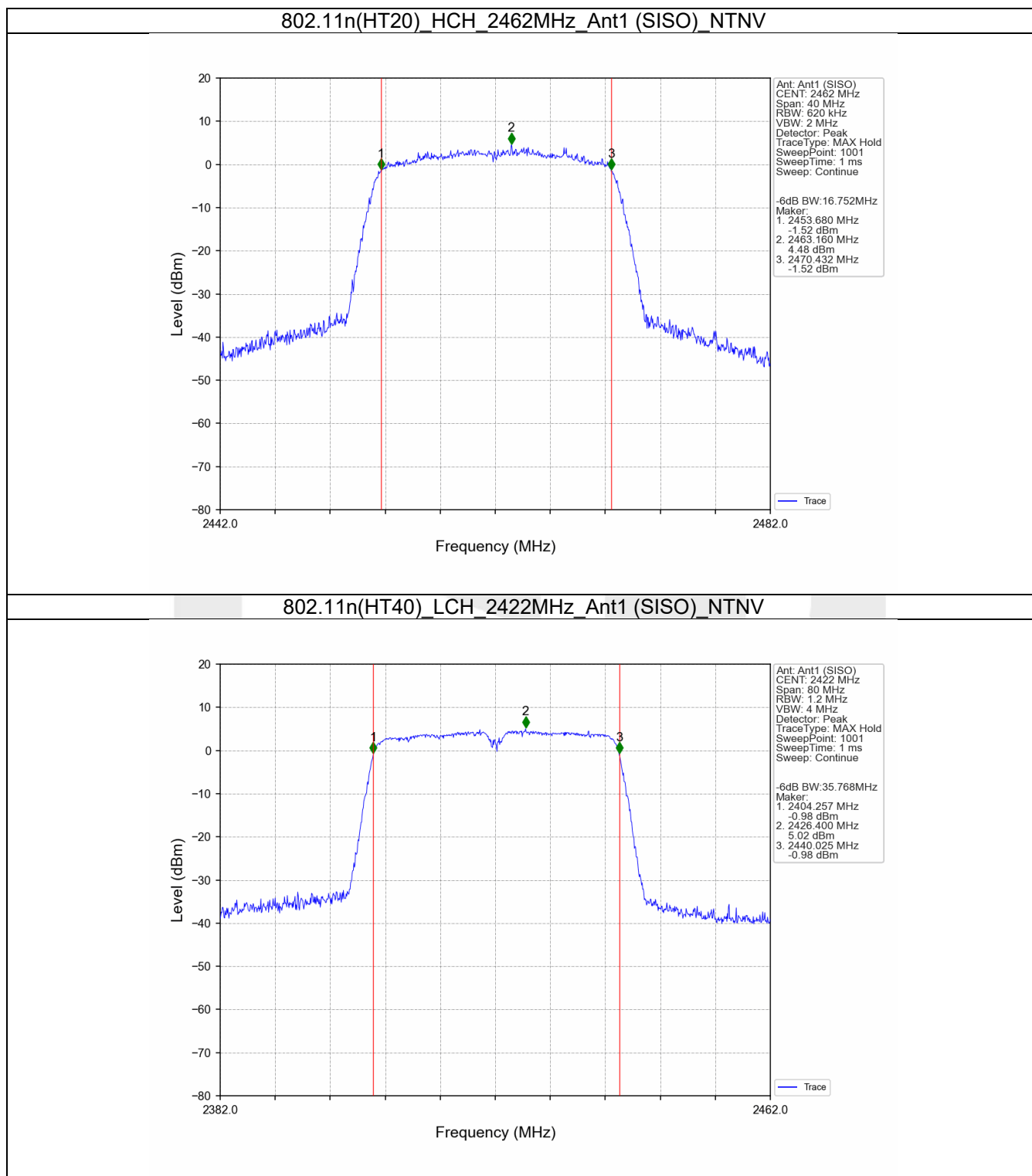
2.2.2 6dB BW

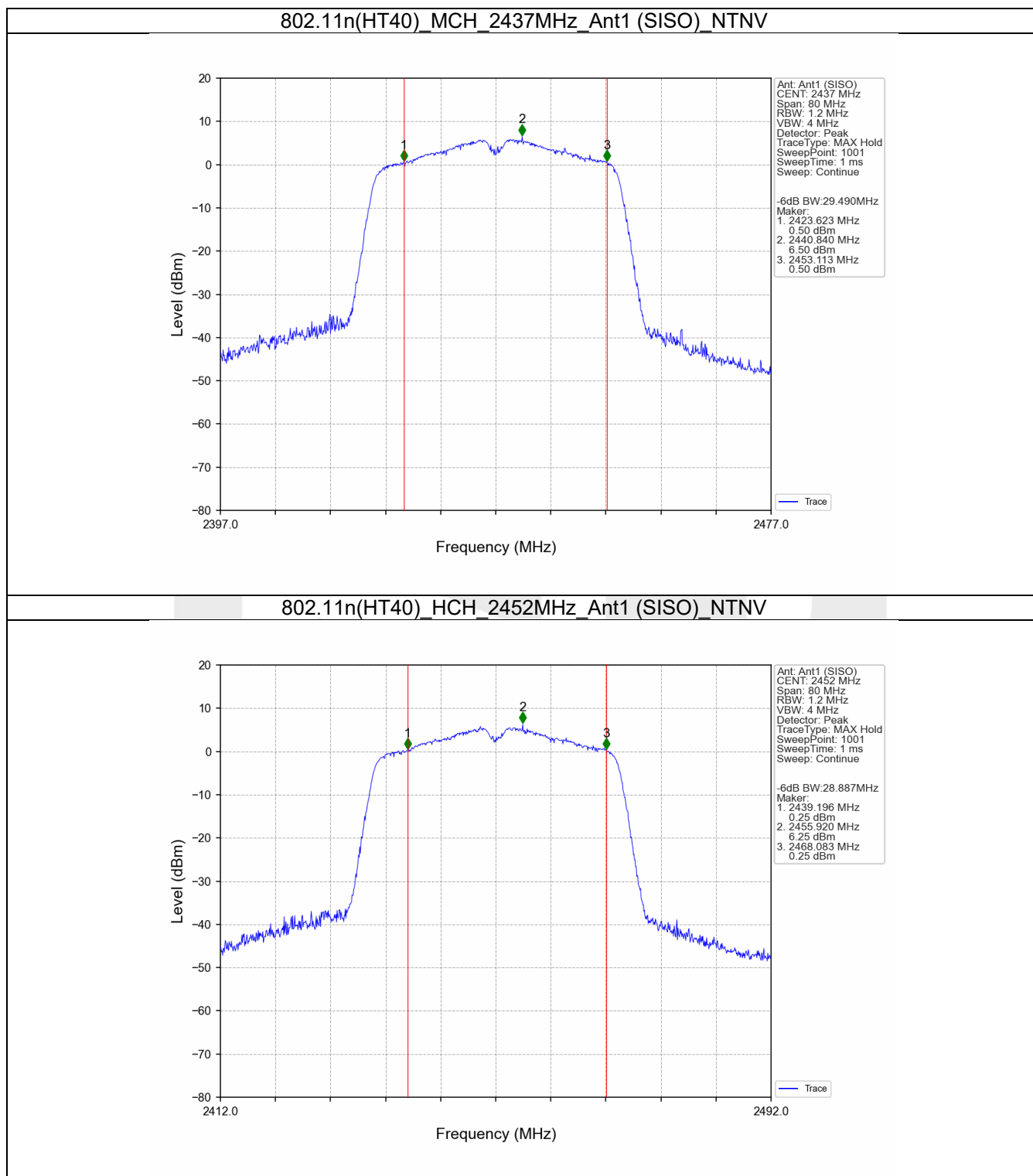












3. Maximum Conducted Output Power

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	12.68	<=30	Pass
		2437	12.64	<=30	Pass
		2462	12.88	<=30	Pass
802.11g	SISO	2412	11.61	<=30	Pass
		2437	16.55	<=30	Pass
		2462	13.61	<=30	Pass
802.11n (HT20)	SISO	2412	16.53	<=30	Pass
		2437	16.40	<=30	Pass
		2462	16.66	<=30	Pass
802.11n (HT40)	SISO	2422	17.30	<=30	Pass
		2437	16.56	<=30	Pass
		2452	16.30	<=30	Pass

4. Maximum Power Spectral Density

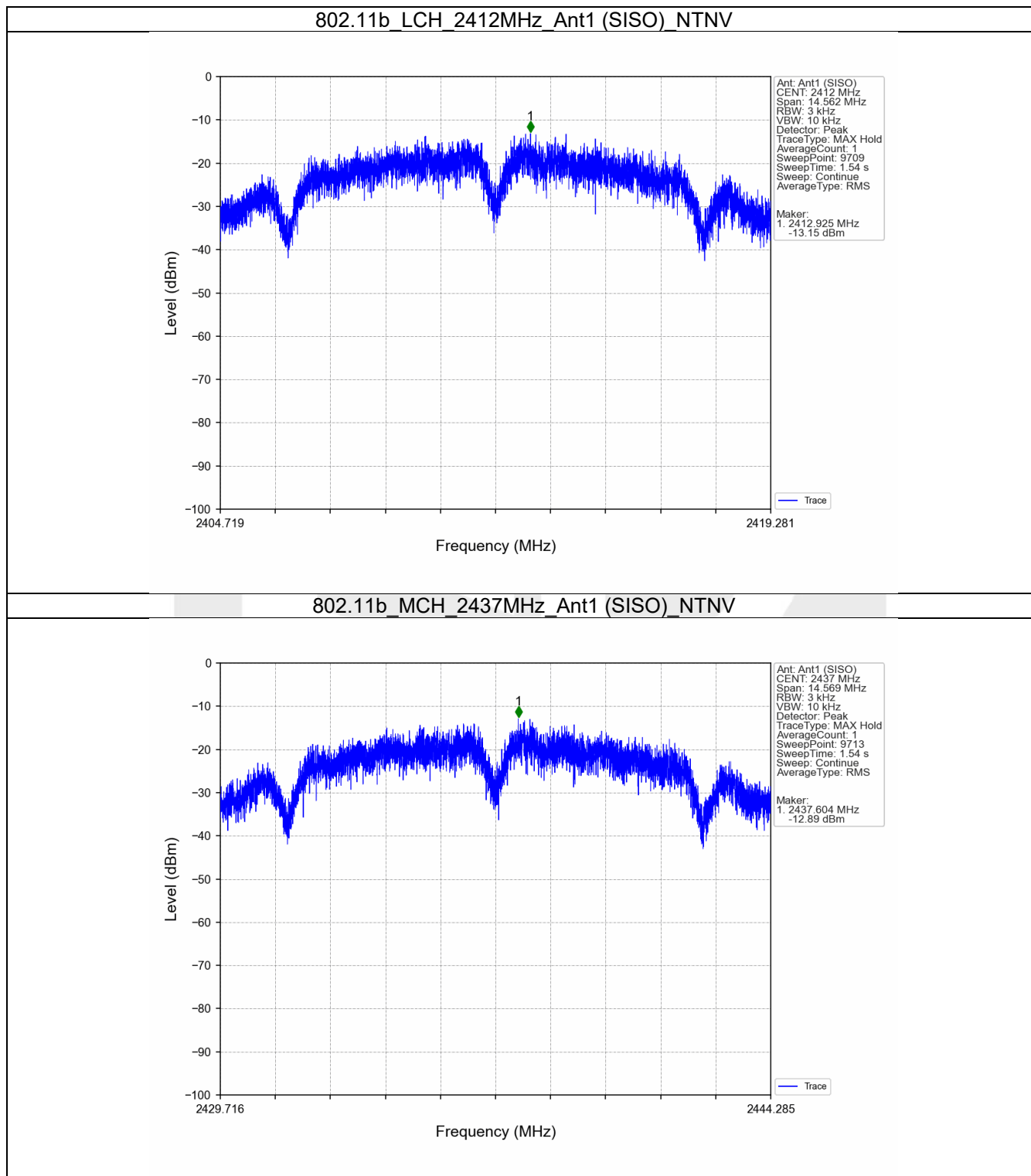
4.1 Test Result

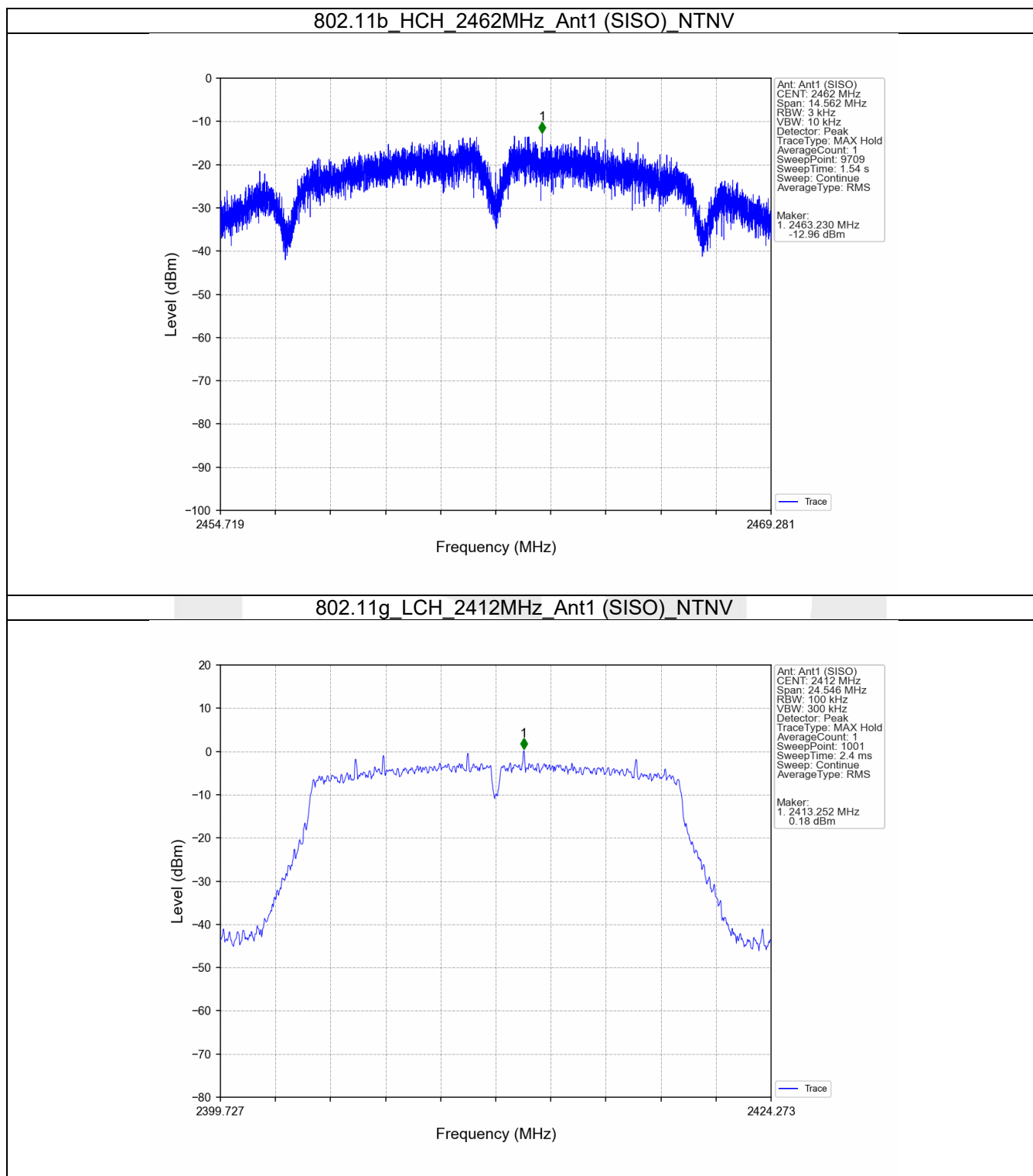
4.1.1 PSD

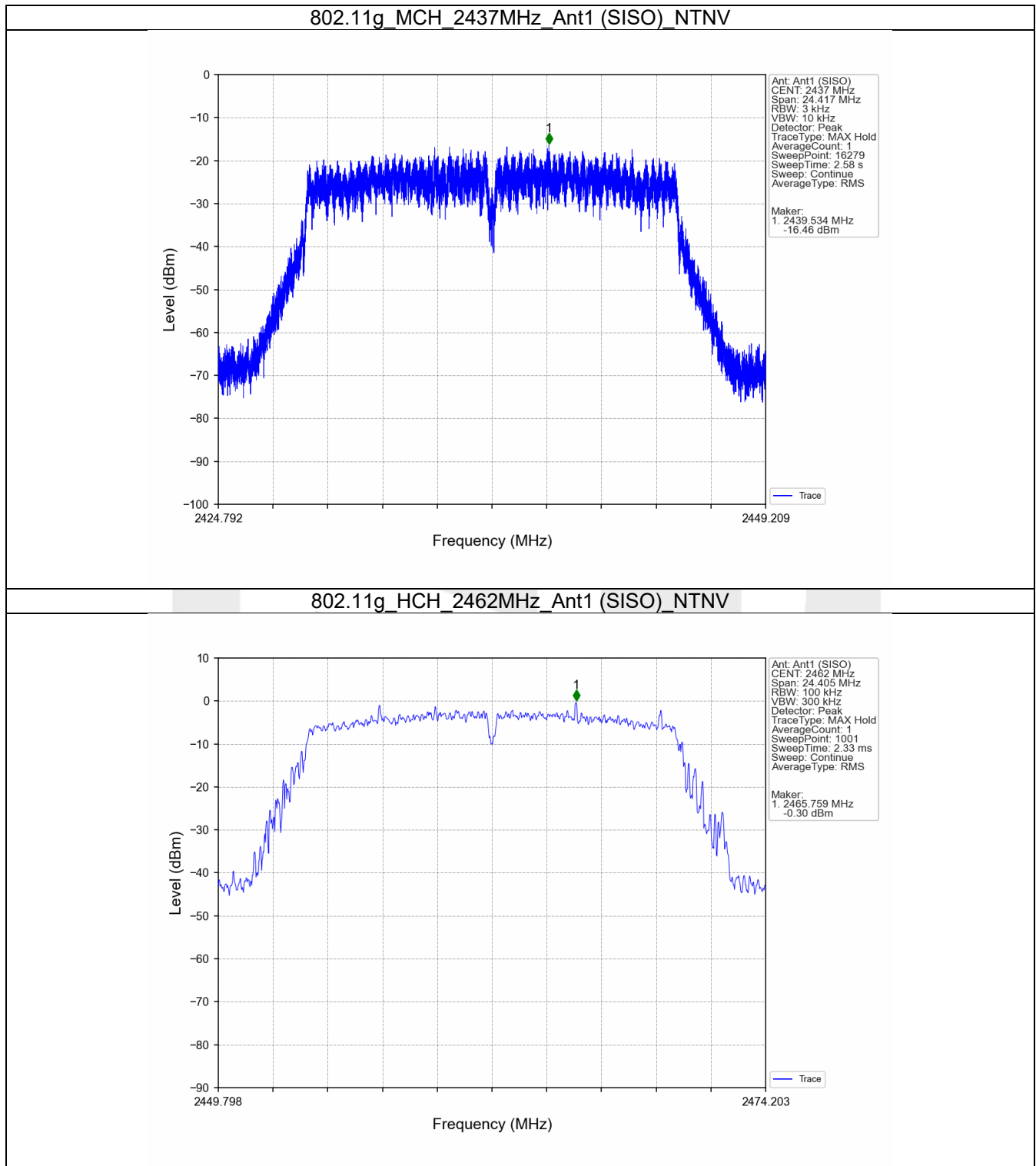
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-13.15	<=8	Pass
		2437	-12.89	<=8	Pass
		2462	-12.96	<=8	Pass
802.11g	SISO	2412	0.18	<=8	Pass
		2437	-16.46	<=8	Pass
		2462	-0.30	<=8	Pass
802.11n (HT20)	SISO	2412	-6.64	<=8	Pass
		2437	-16.00	<=8	Pass
		2462	-15.50	<=8	Pass
802.11n (HT40)	SISO	2422	-18.95	<=8	Pass
		2437	-10.88	<=8	Pass
		2452	-18.03	<=8	Pass

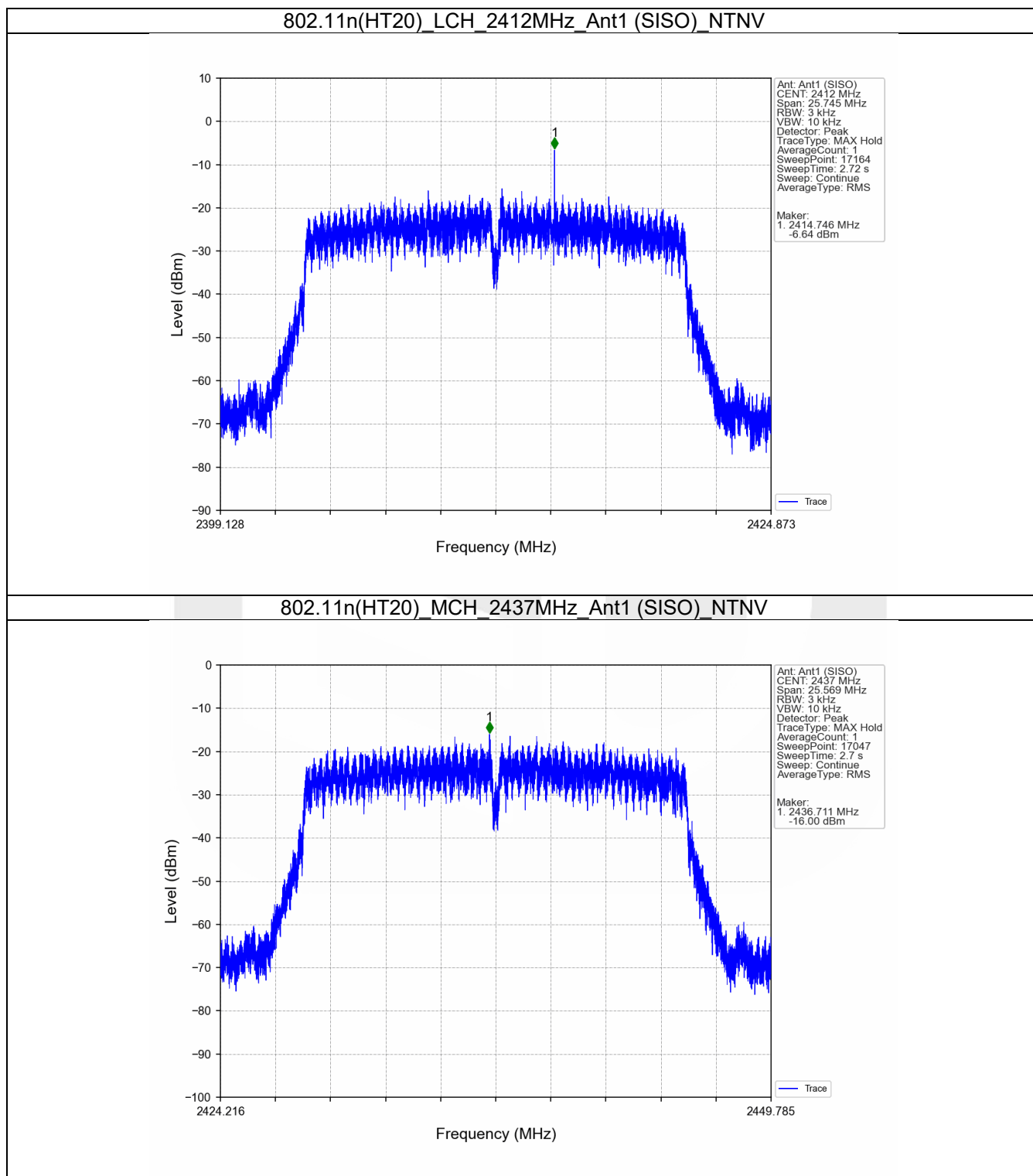
4.2 Test Graph

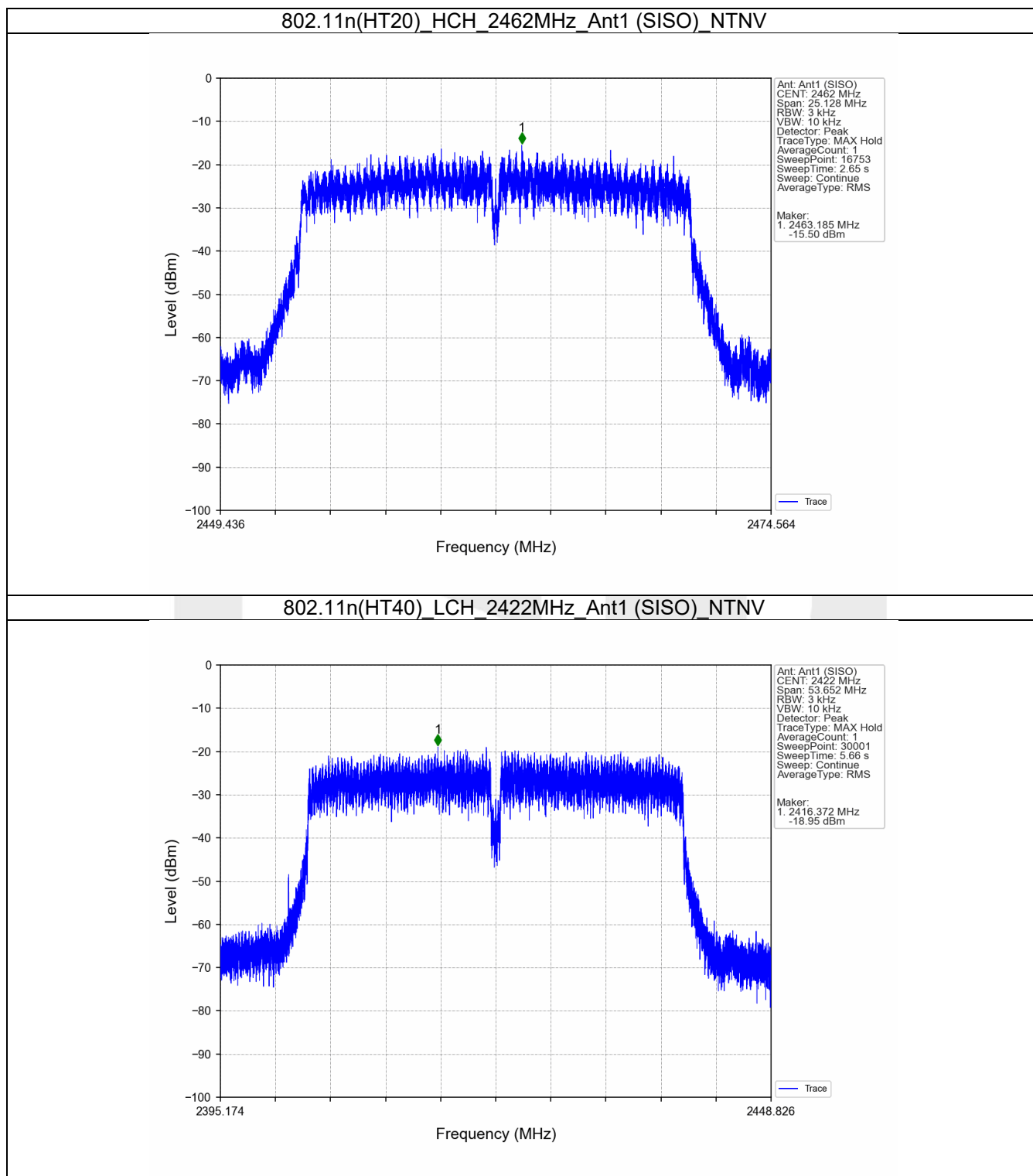
4.2.1 PSD

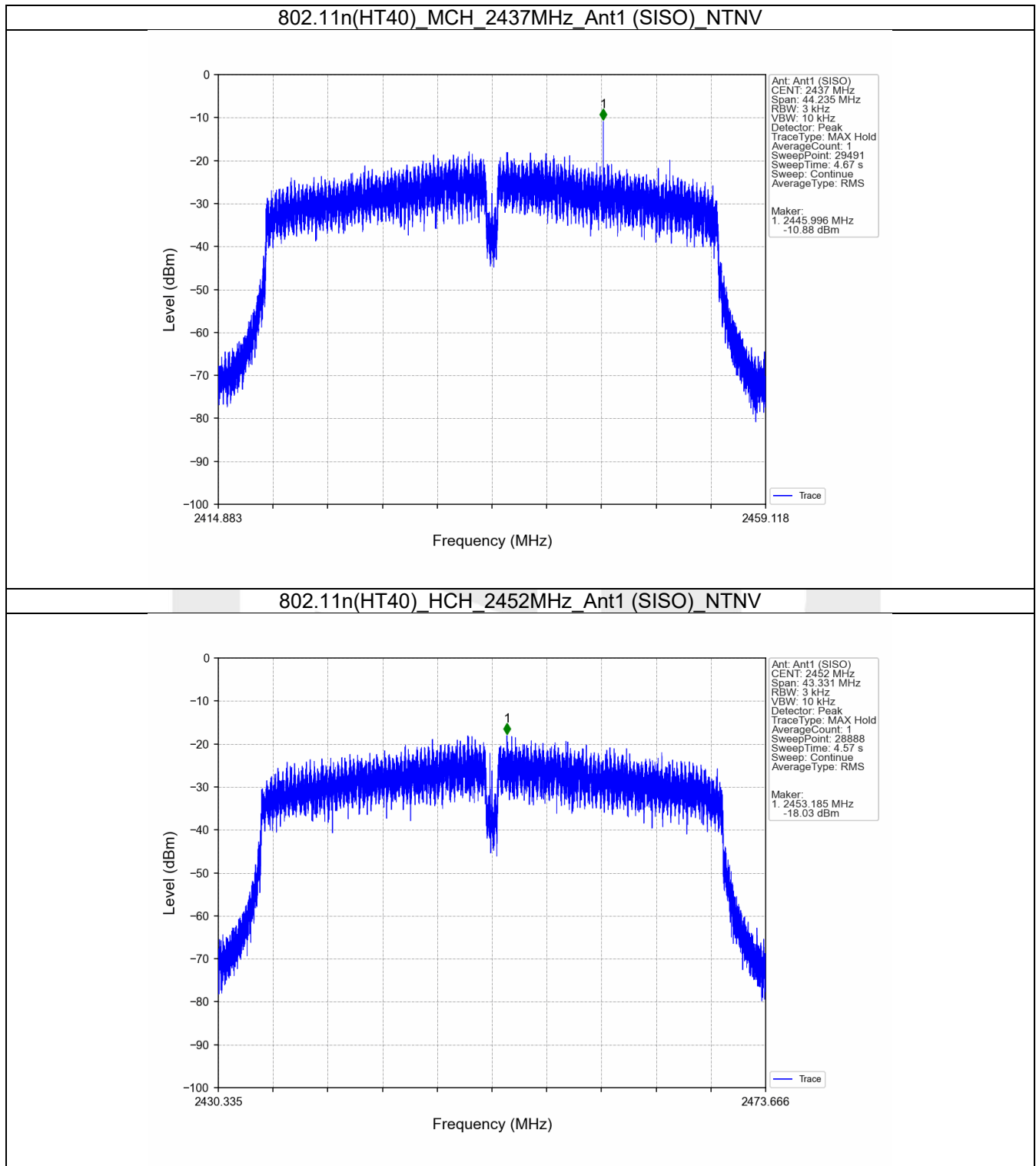












5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	1.57
		2437	1	1.66
		2462	1	1.59
802.11g	SISO	2412	1	6.02
		2437	1	-1.68
		2462	1	0.81
802.11n (HT20)	SISO	2412	1	-2.54
		2437	1	-2.81
		2462	1	-2.25
802.11n (HT40)	SISO	2422	1	-4.80
		2437	1	-3.42
		2452	1	-3.70

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.

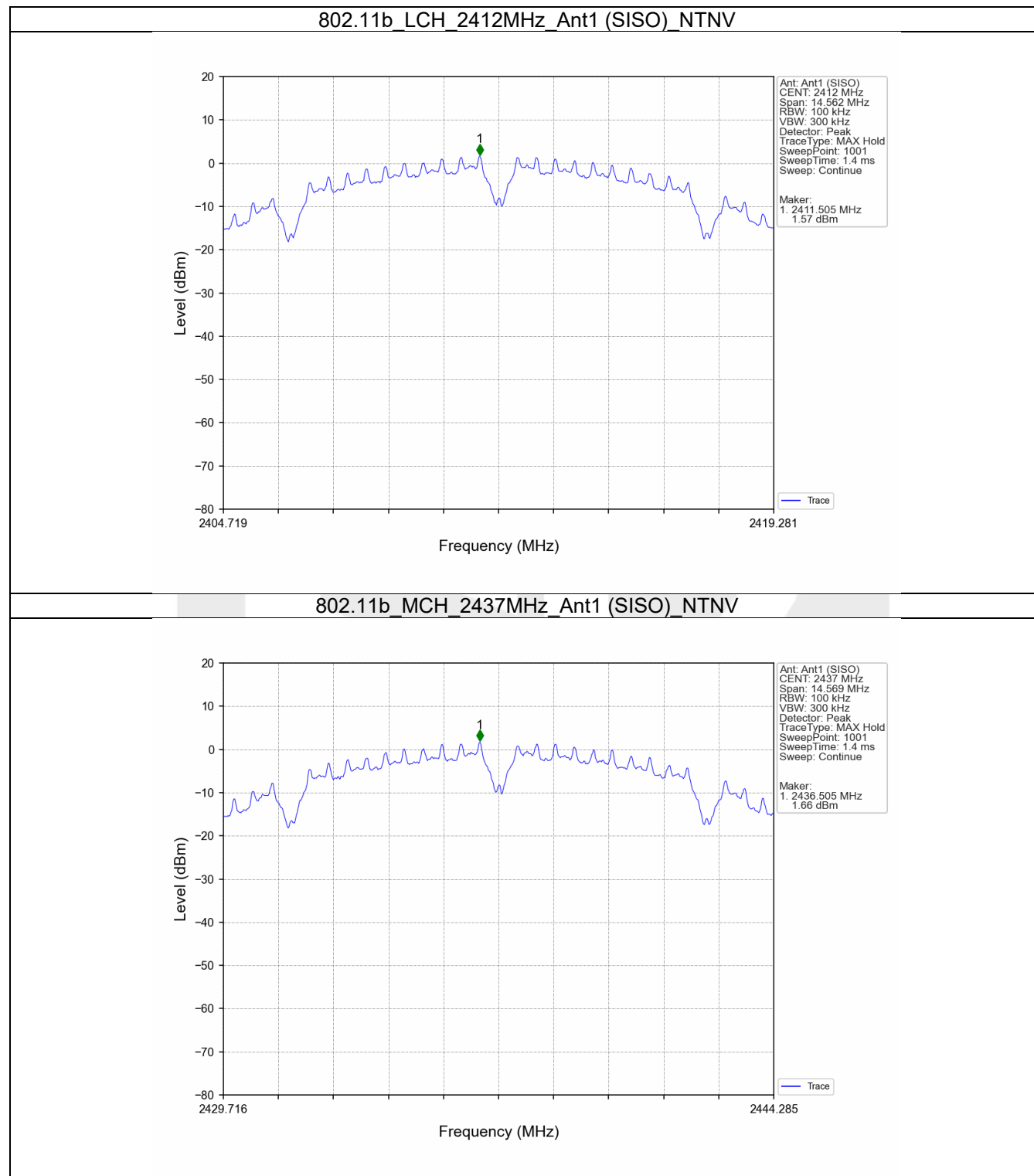
5.1.2 CSE

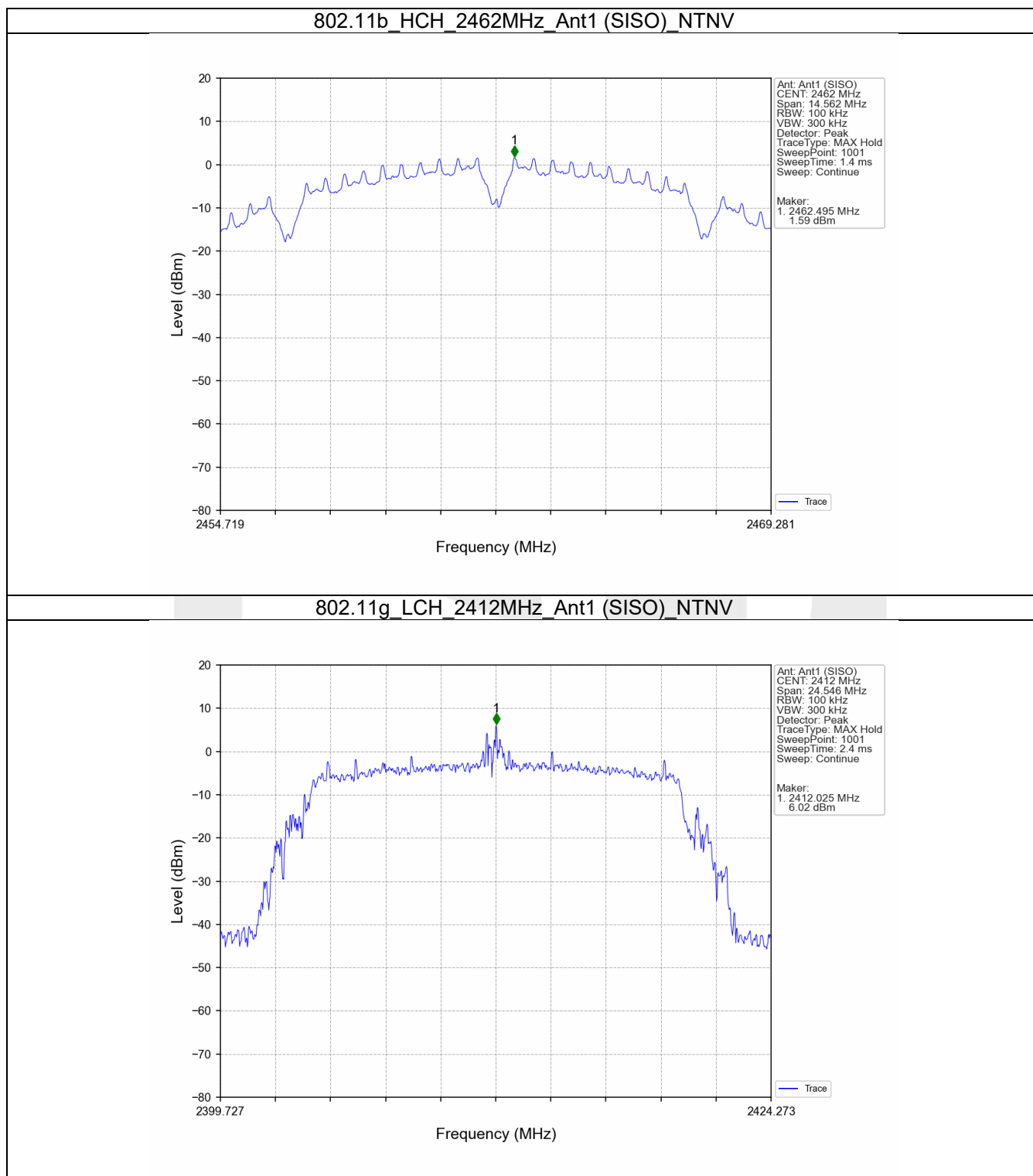
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	1.57	-18.43	Pass
		2437	1	1.66	-18.34	Pass
		2462	1	1.59	-18.41	Pass
802.11g	SISO	2412	1	6.02	-13.98	Pass
		2437	1	-1.68	-21.68	Pass
		2462	1	0.81	-19.19	Pass
802.11n (HT20)	SISO	2412	1	-2.54	-22.54	Pass
		2437	1	-2.81	-22.81	Pass
		2462	1	-2.25	-22.25	Pass
802.11n (HT40)	SISO	2422	1	-4.80	-24.80	Pass
		2437	1	-3.42	-23.42	Pass
		2452	1	-3.70	-23.70	Pass

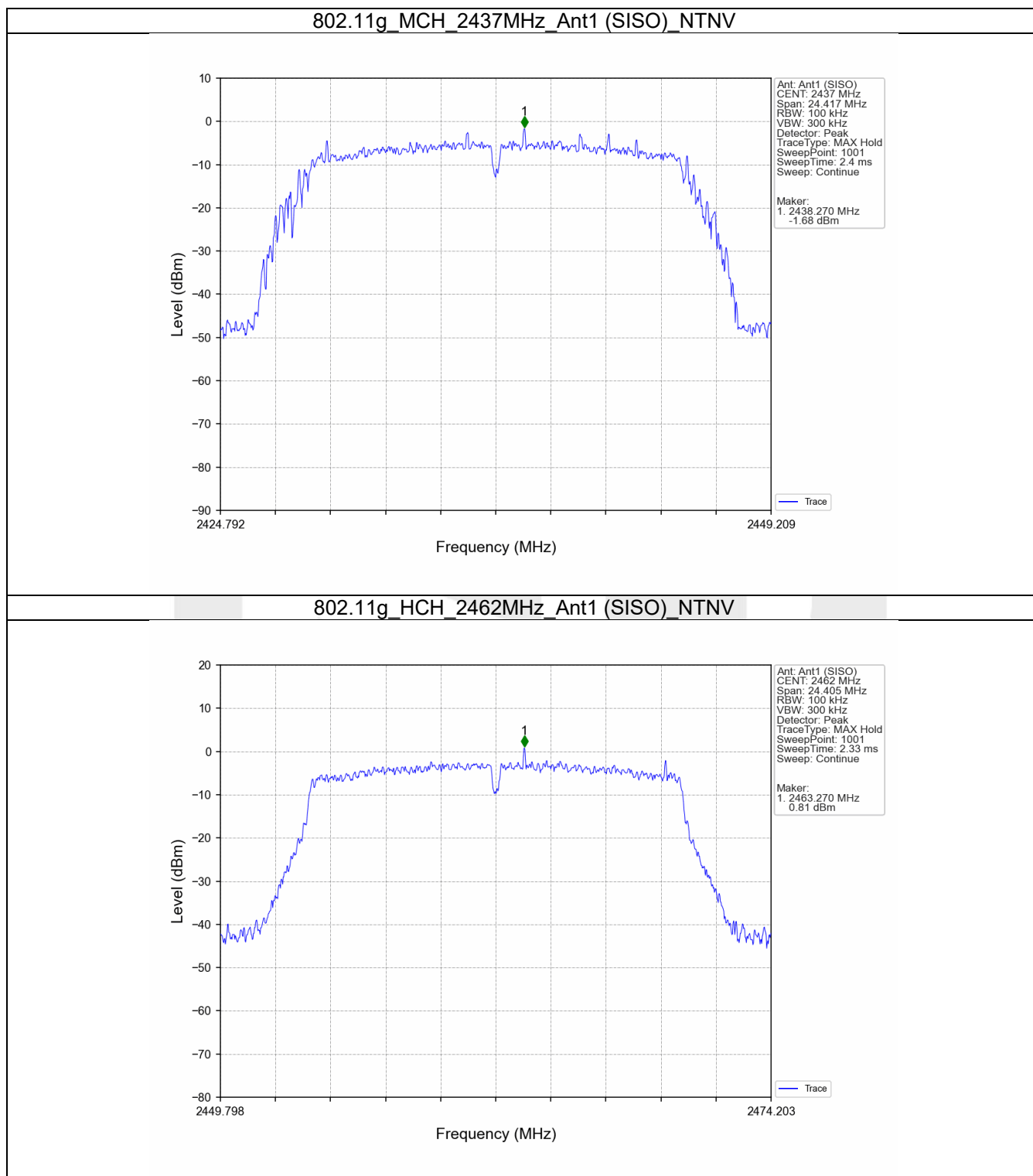
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

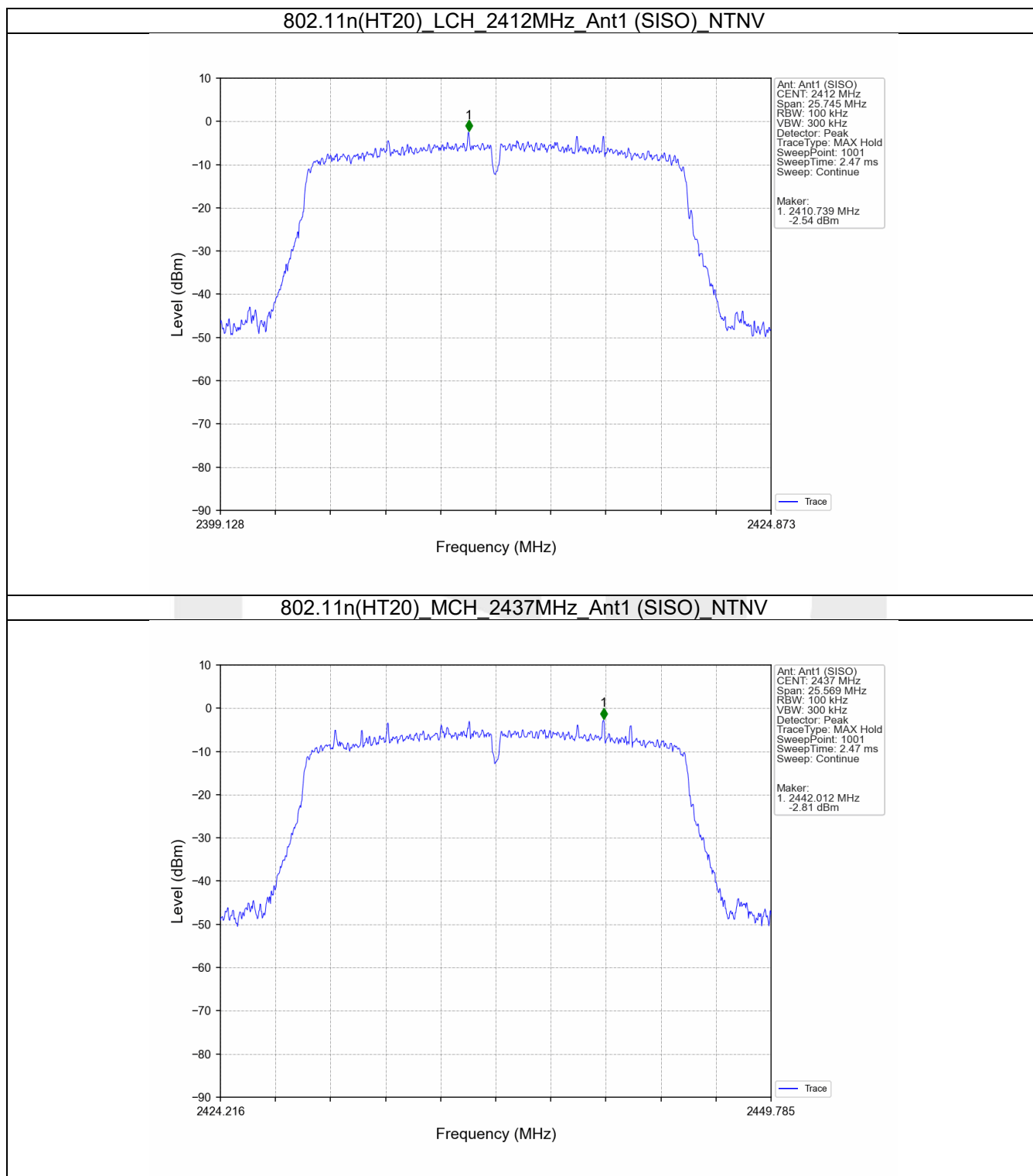
5.2 Test Graph

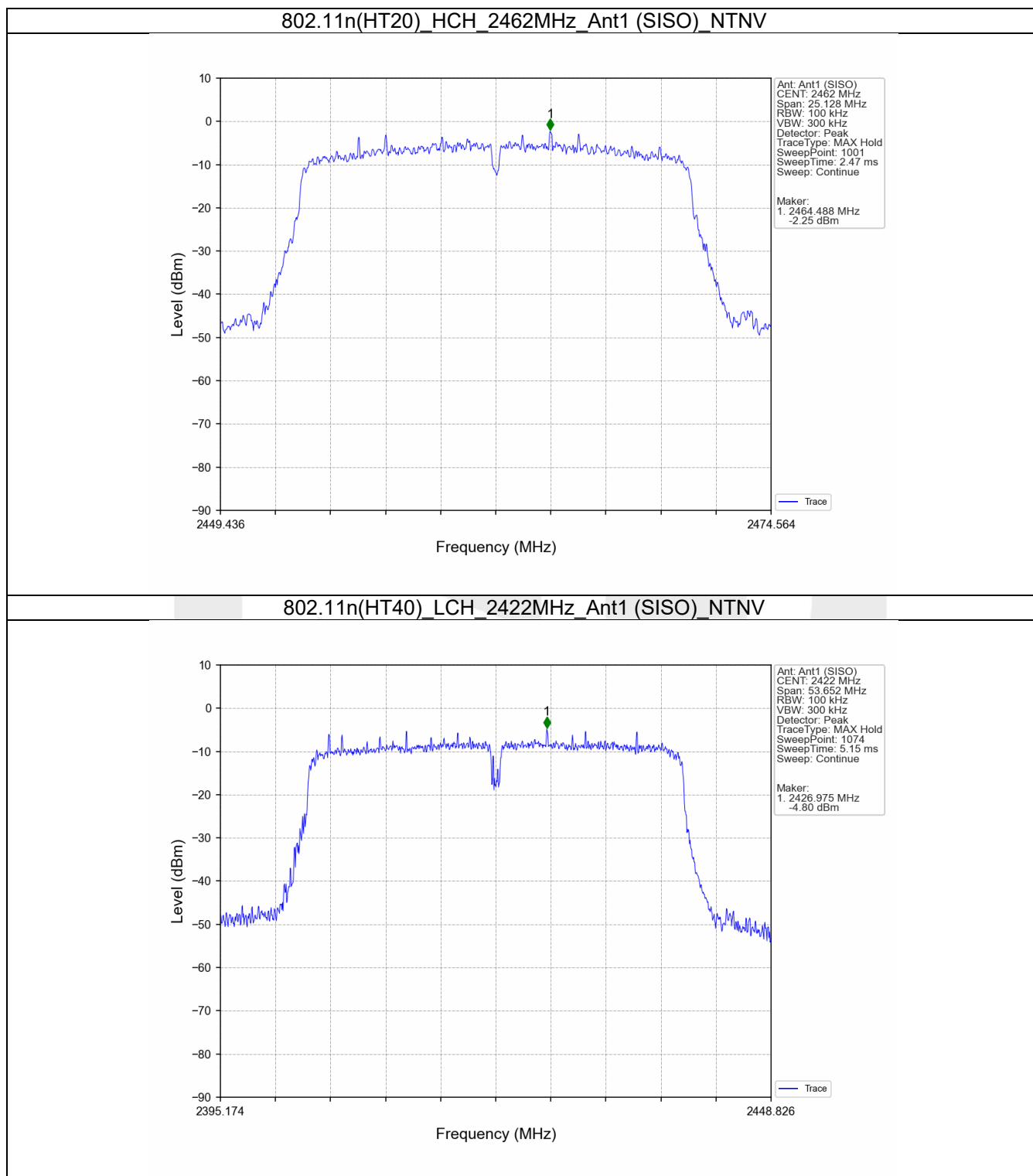
5.2.1 Ref

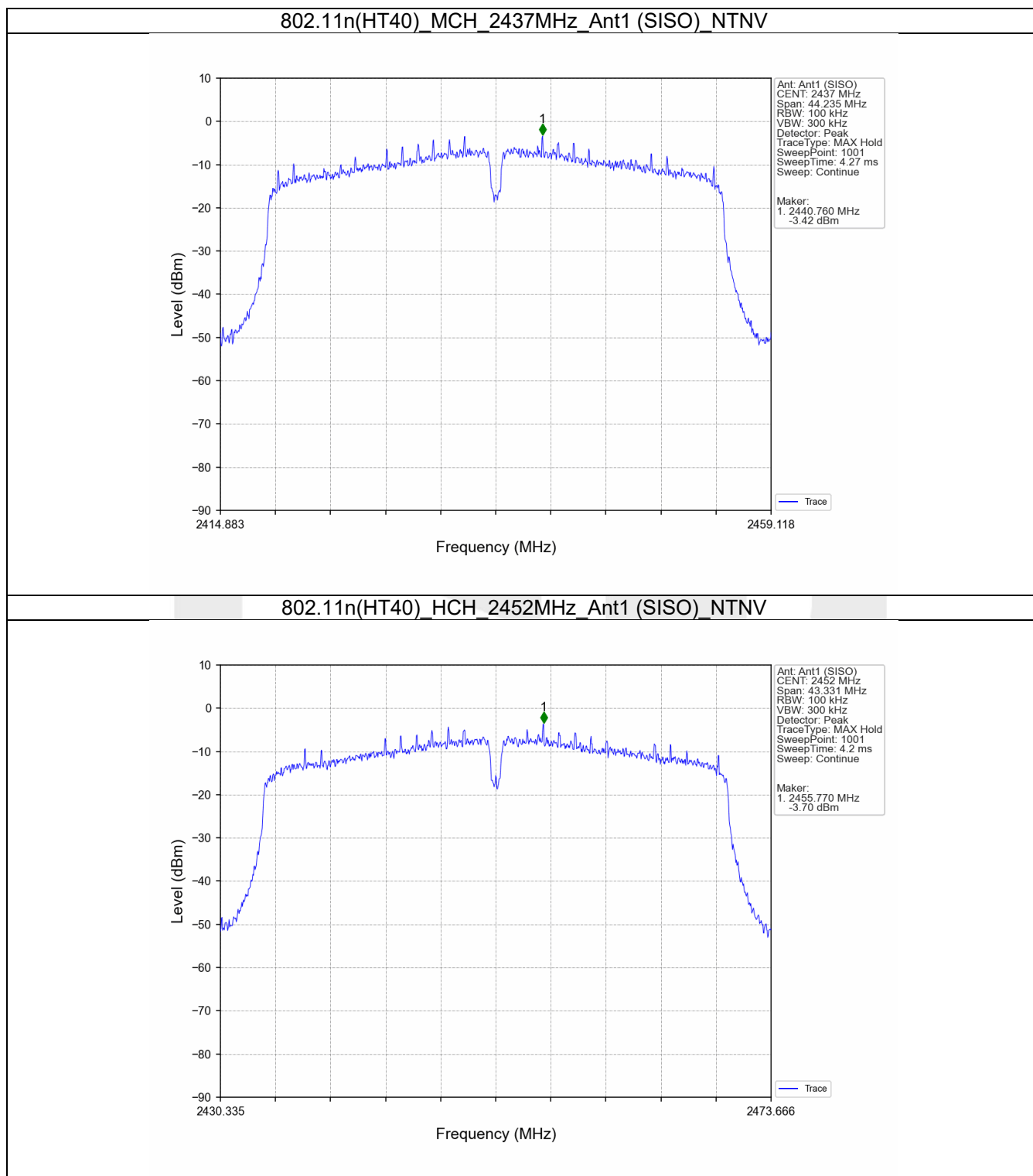




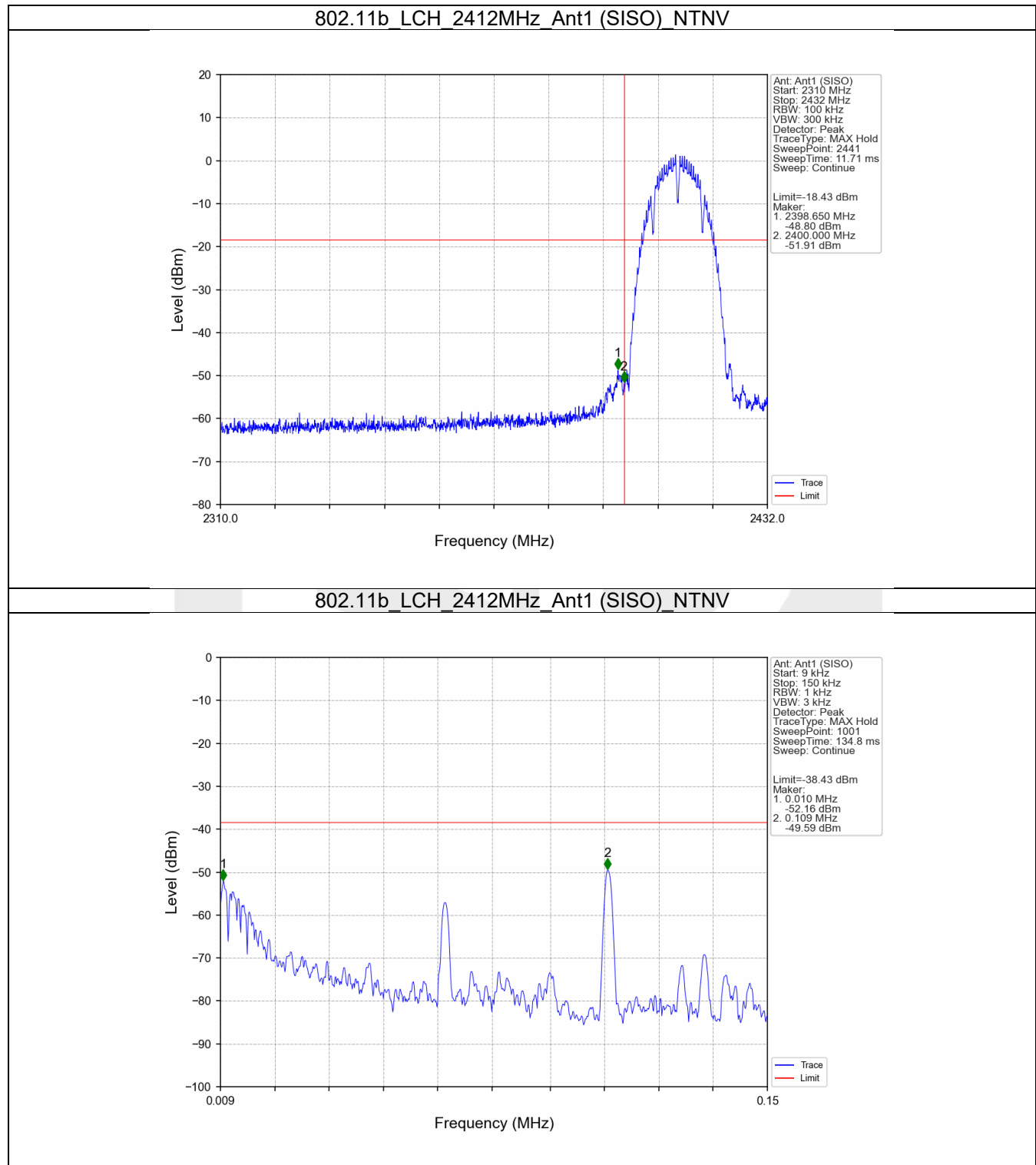


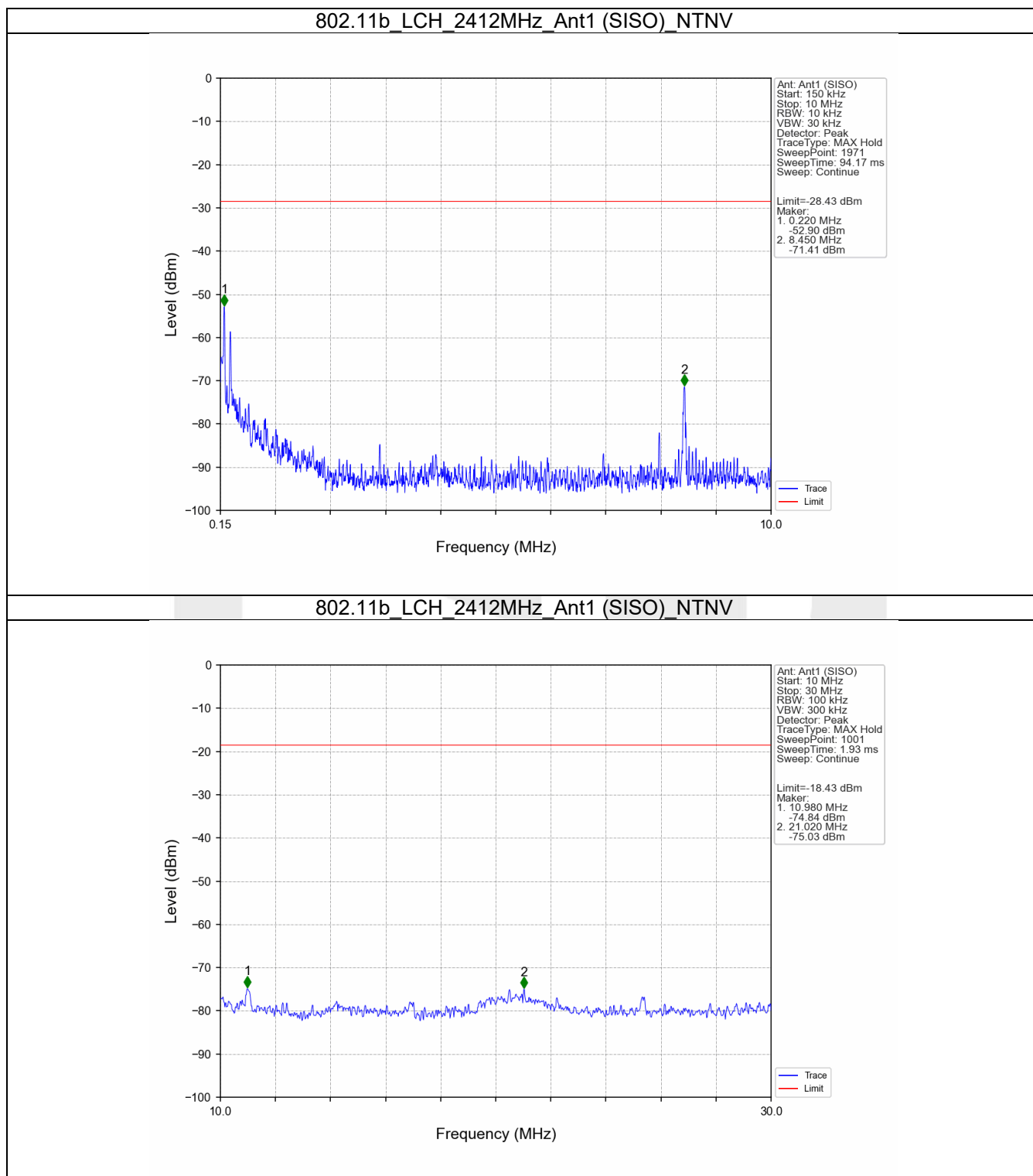


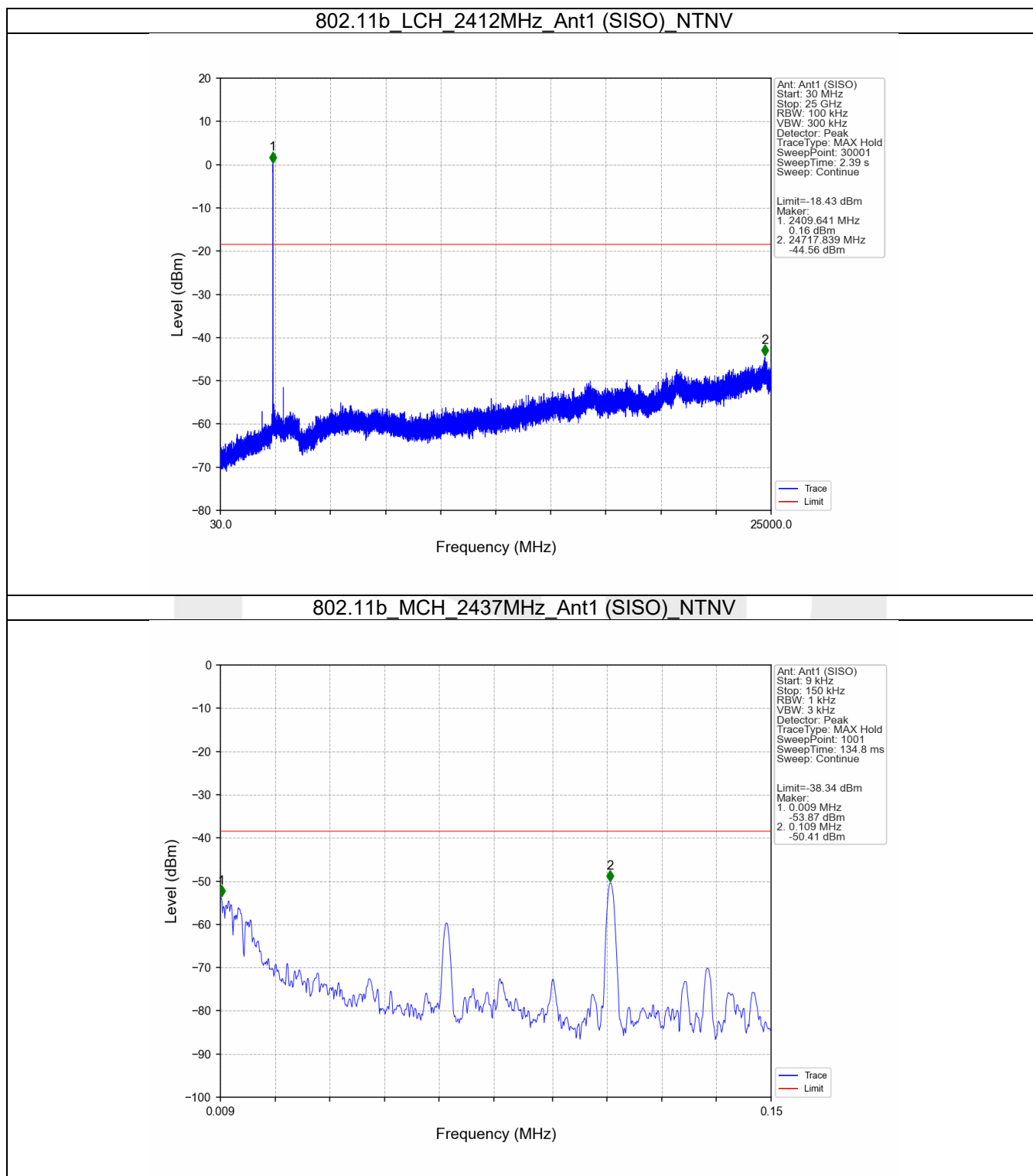


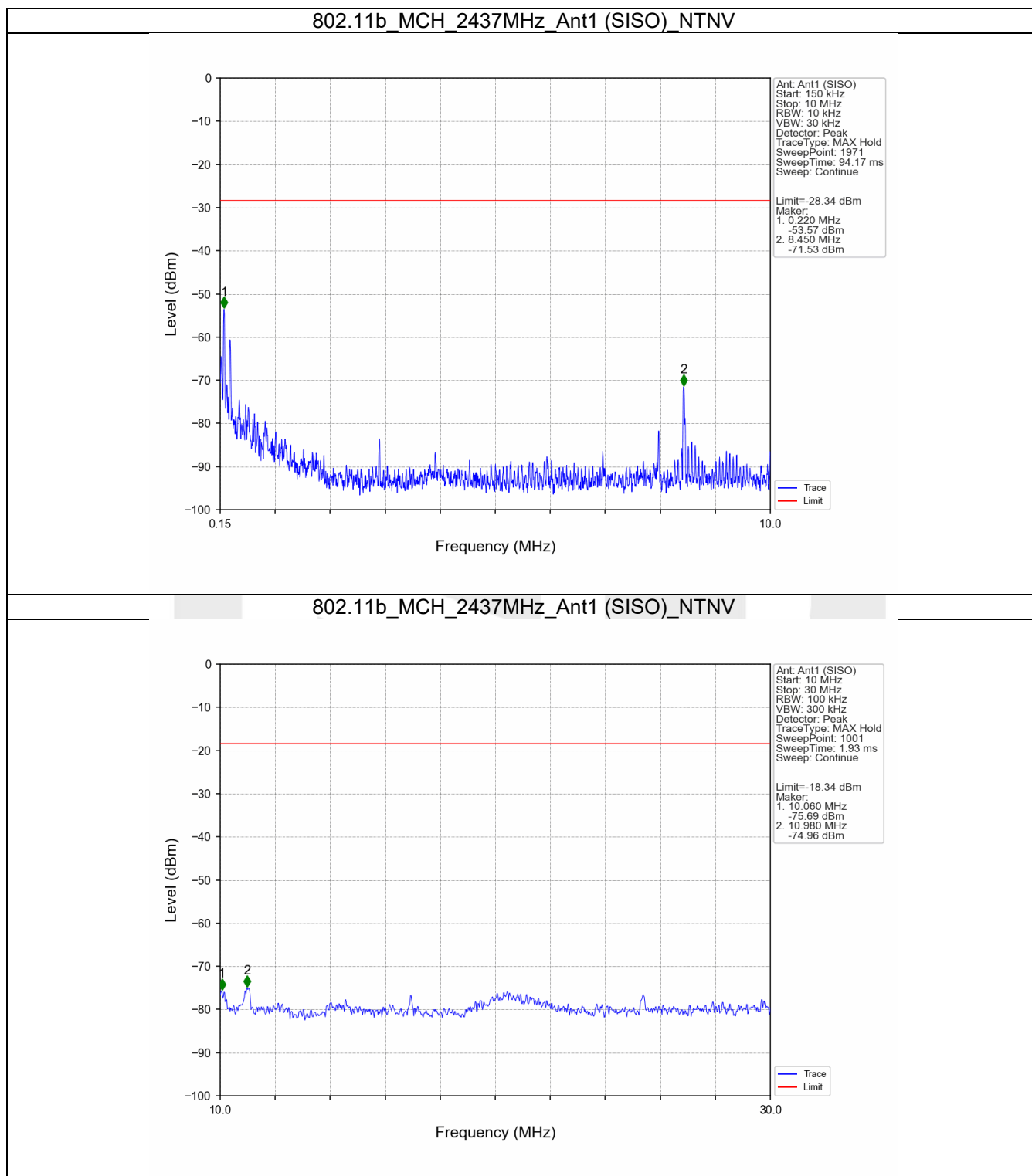


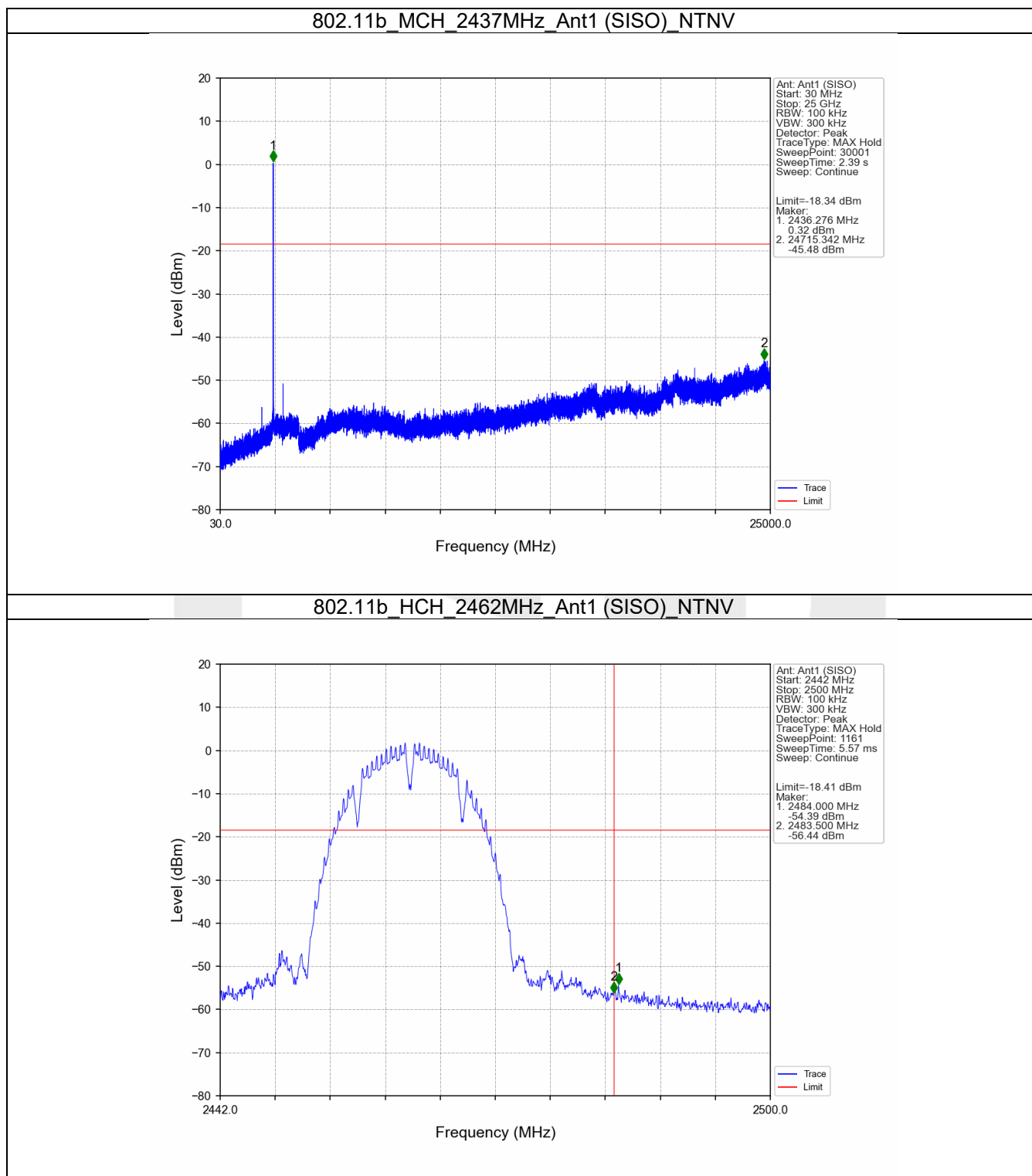
5.2.2 CSE

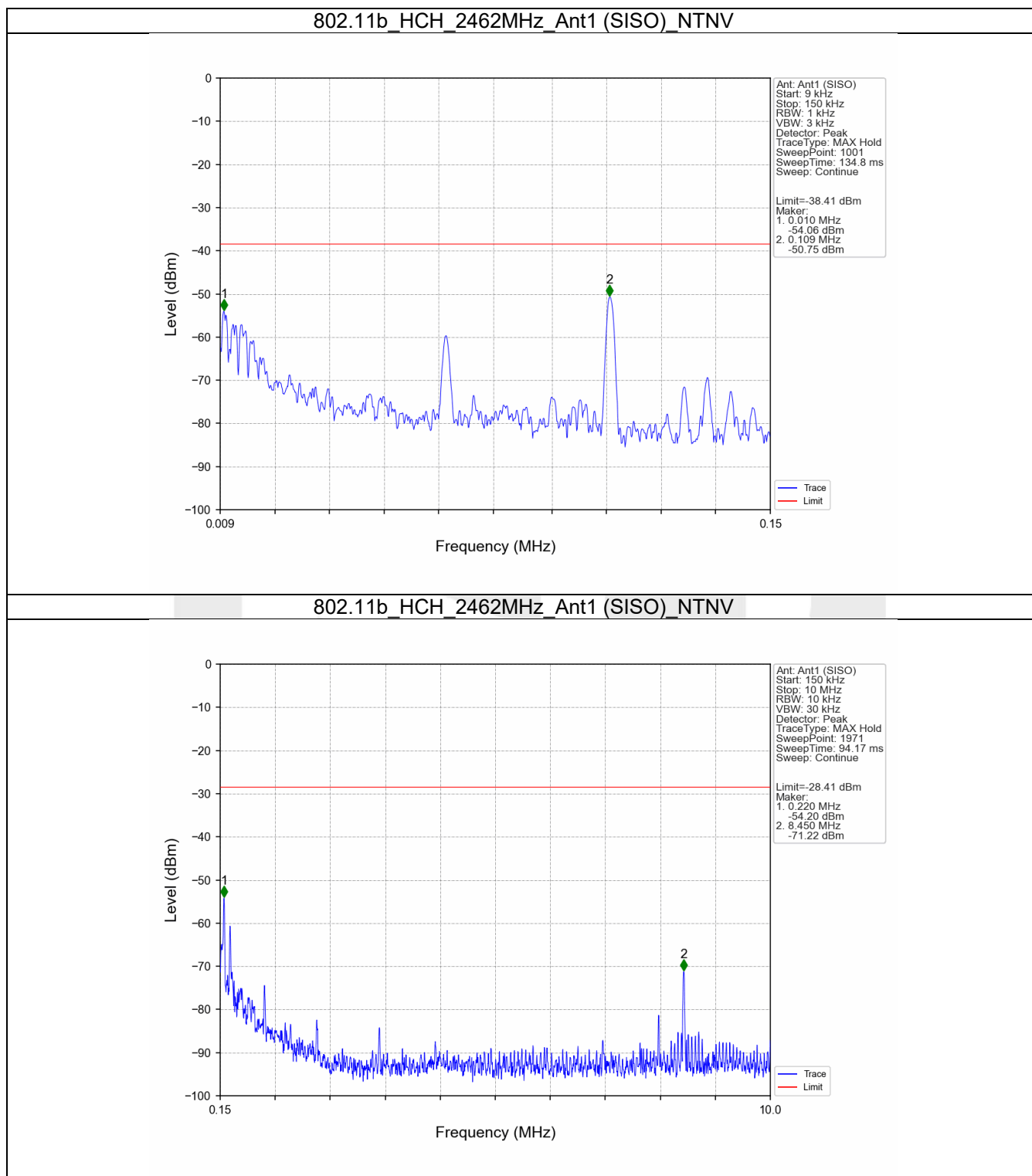


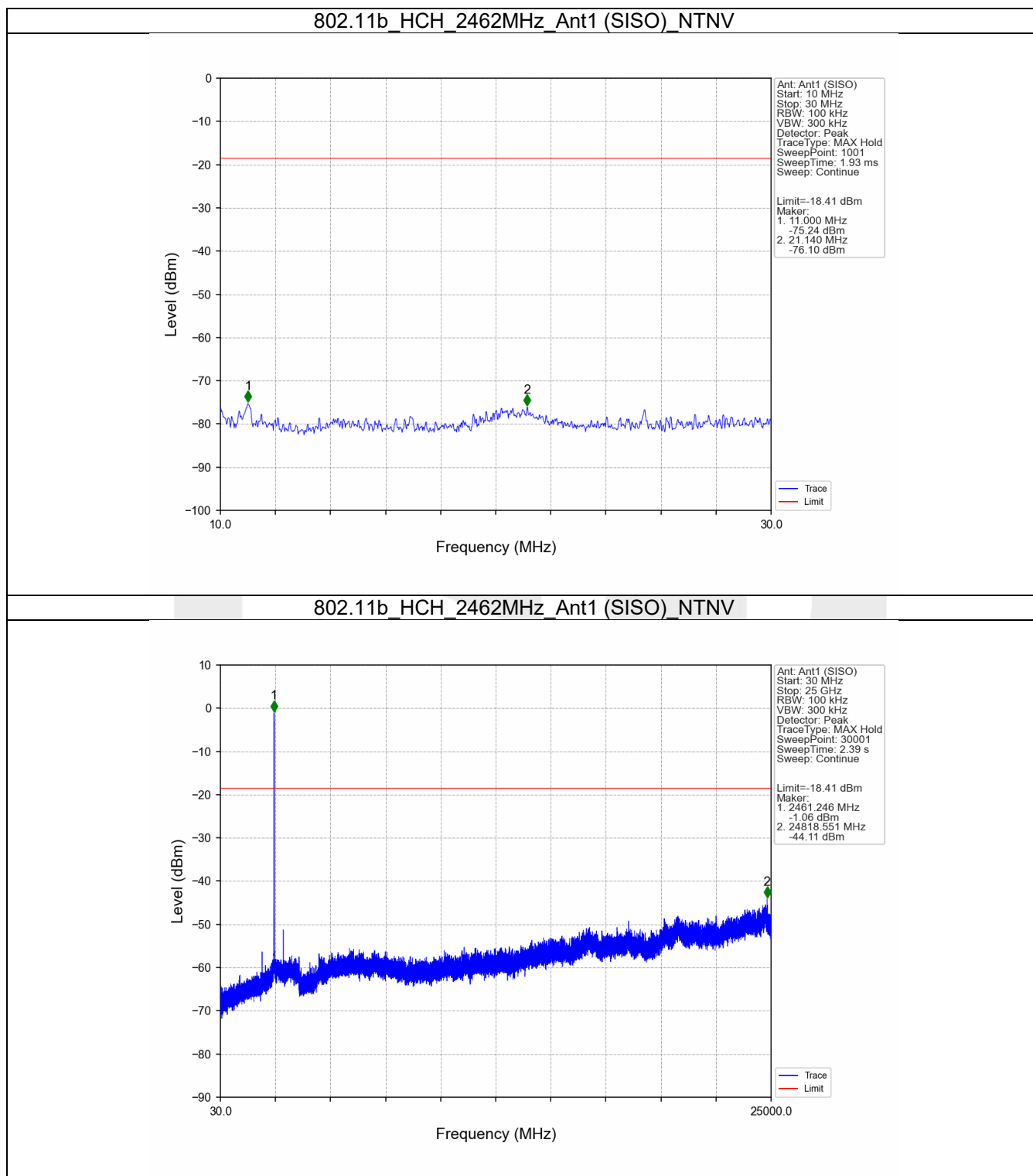


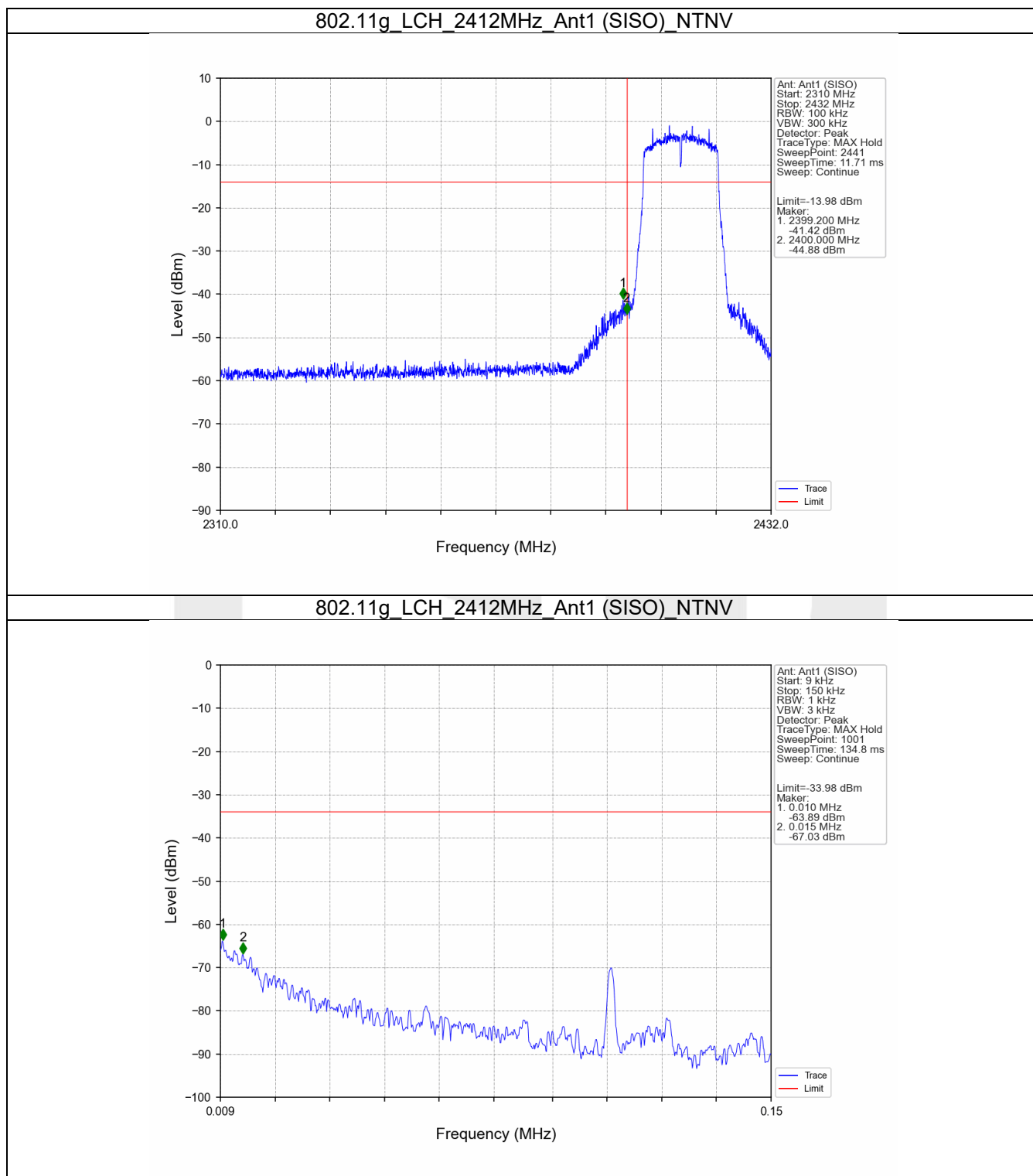


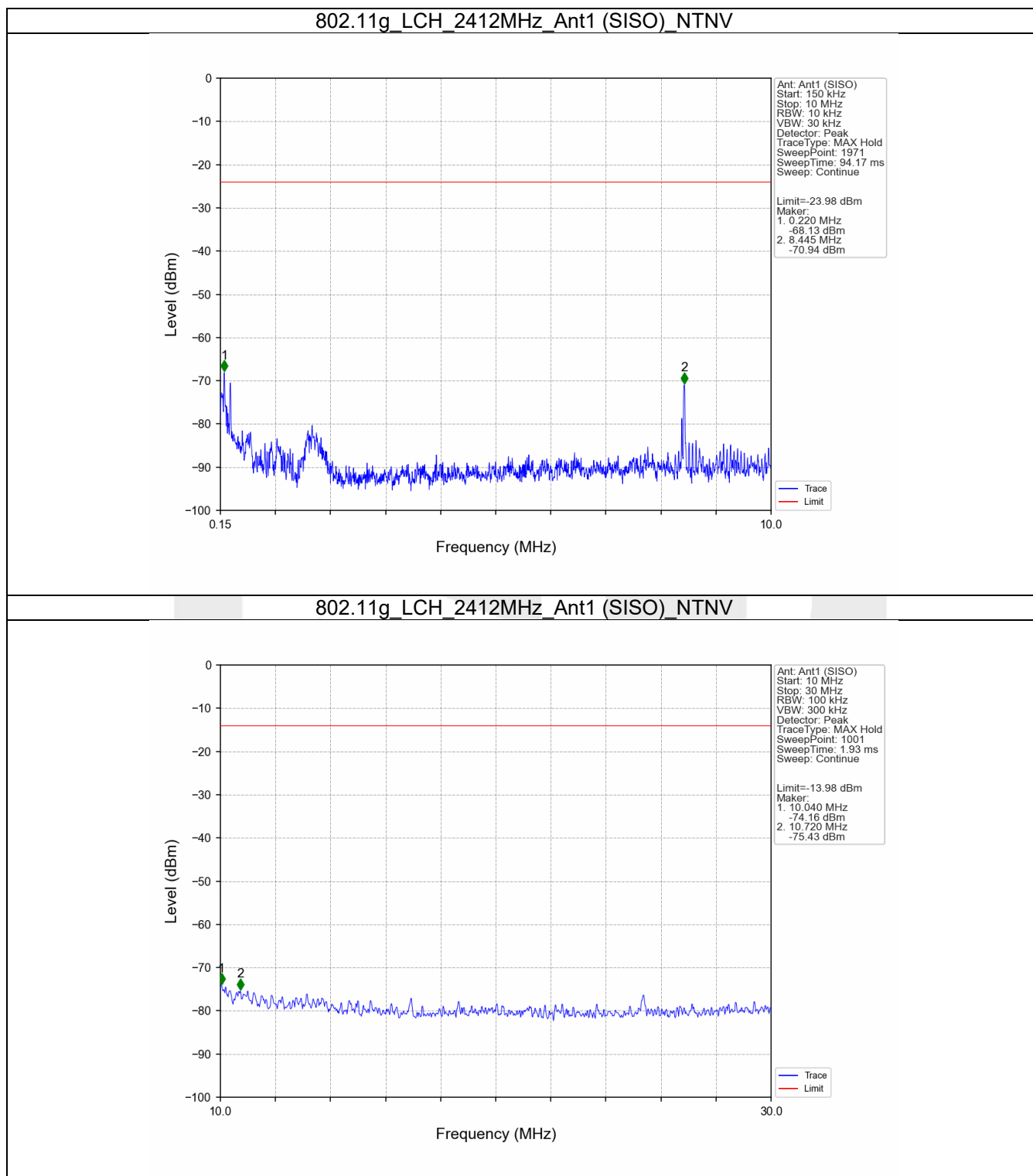


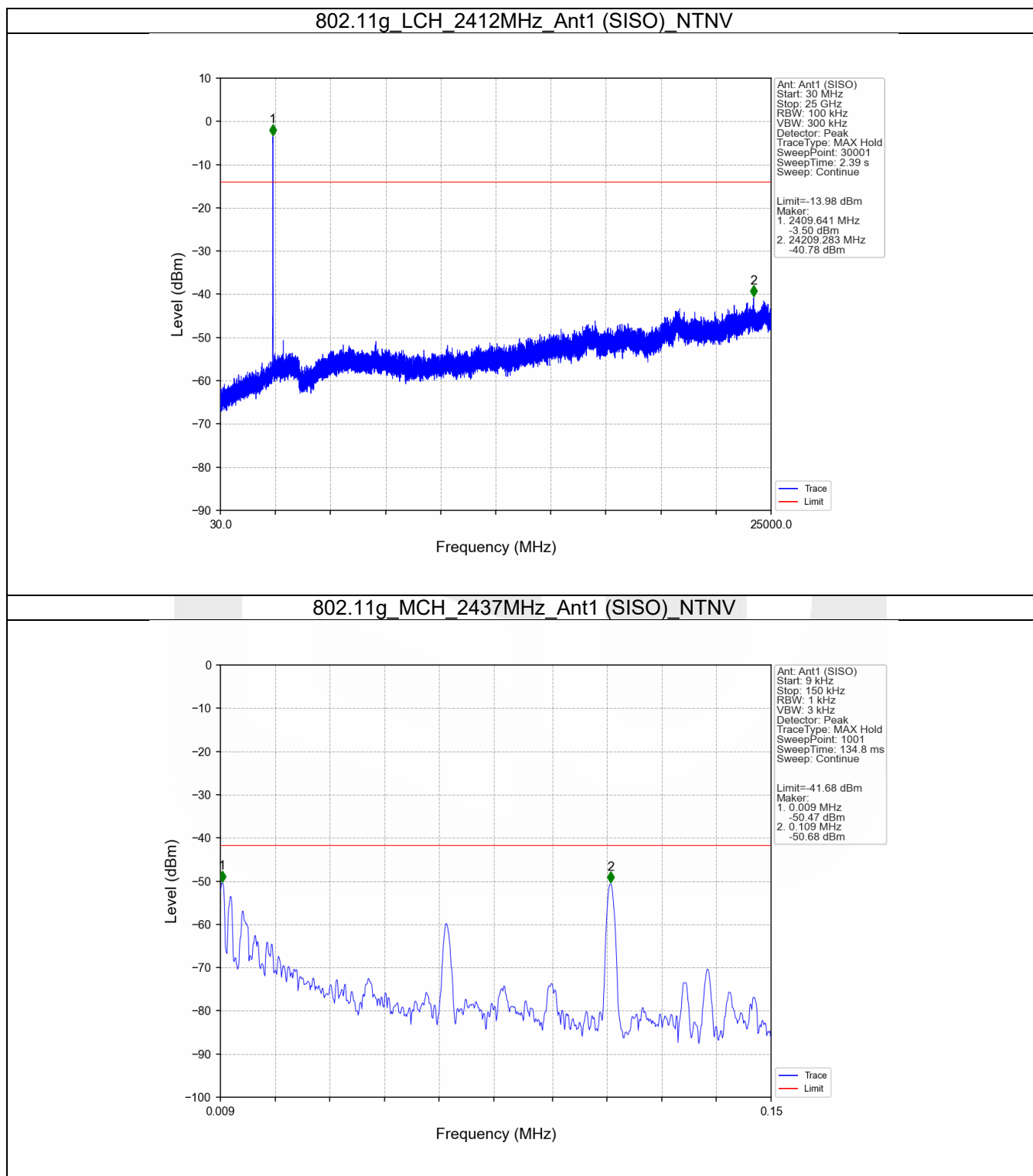


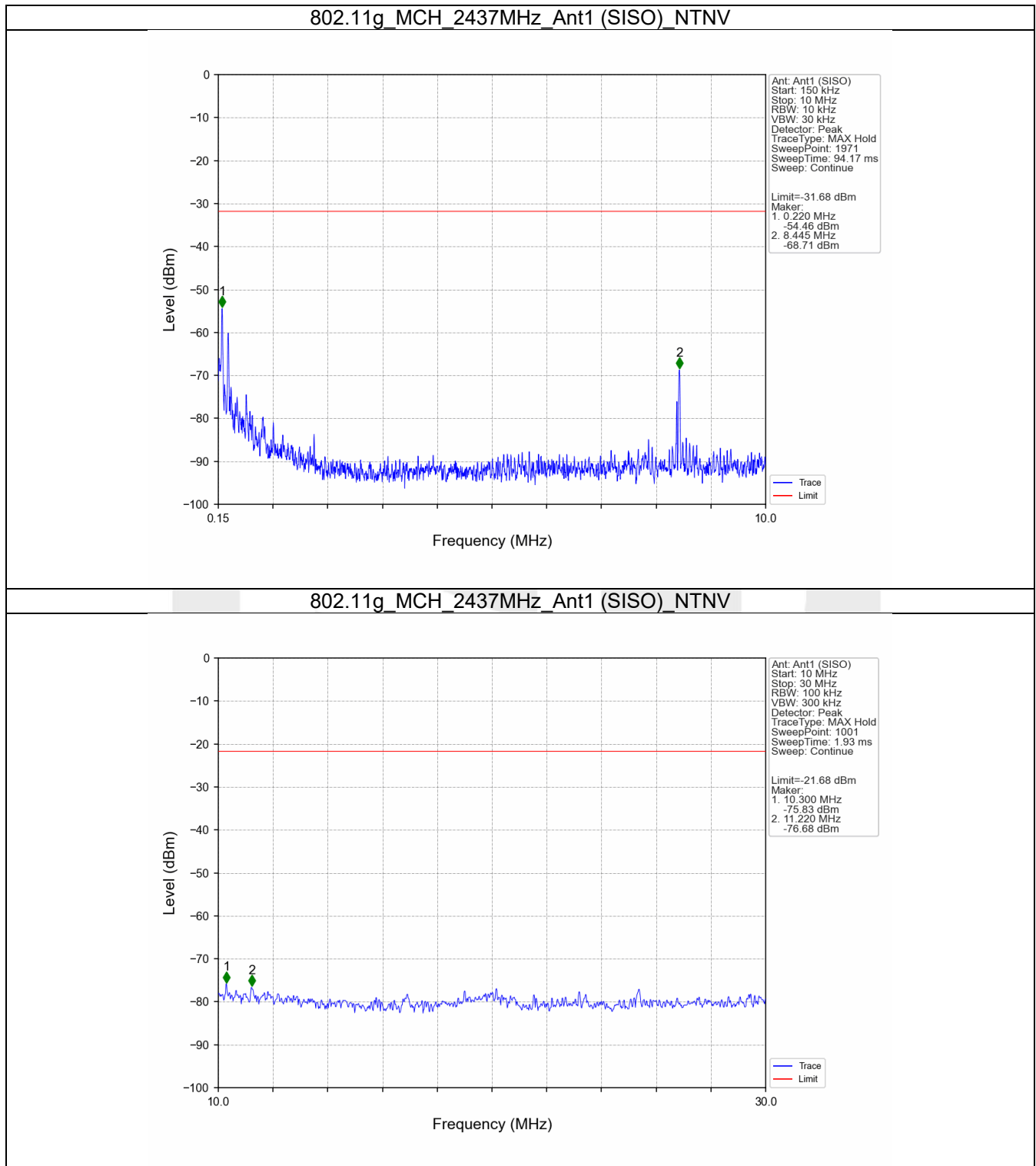


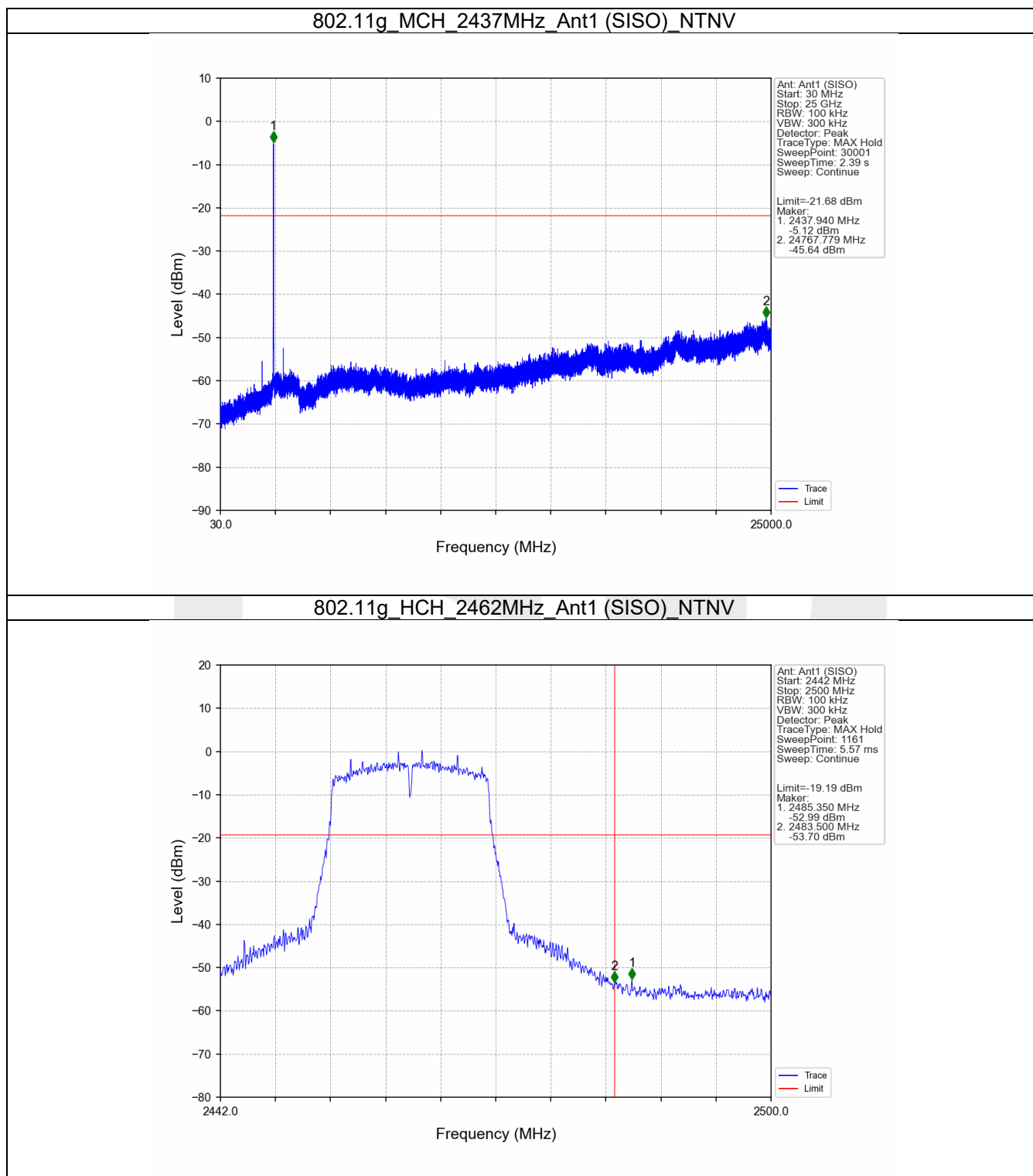


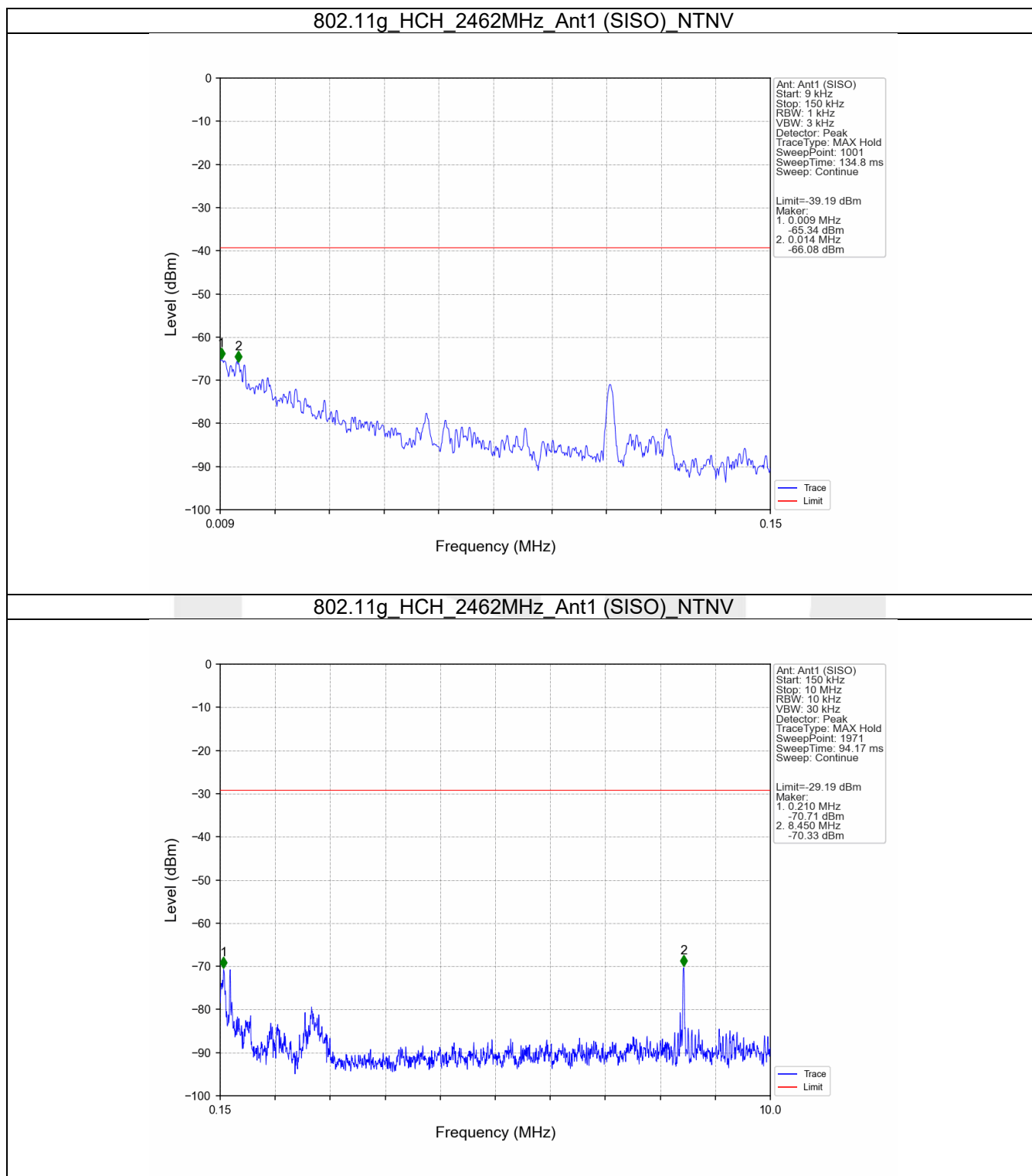


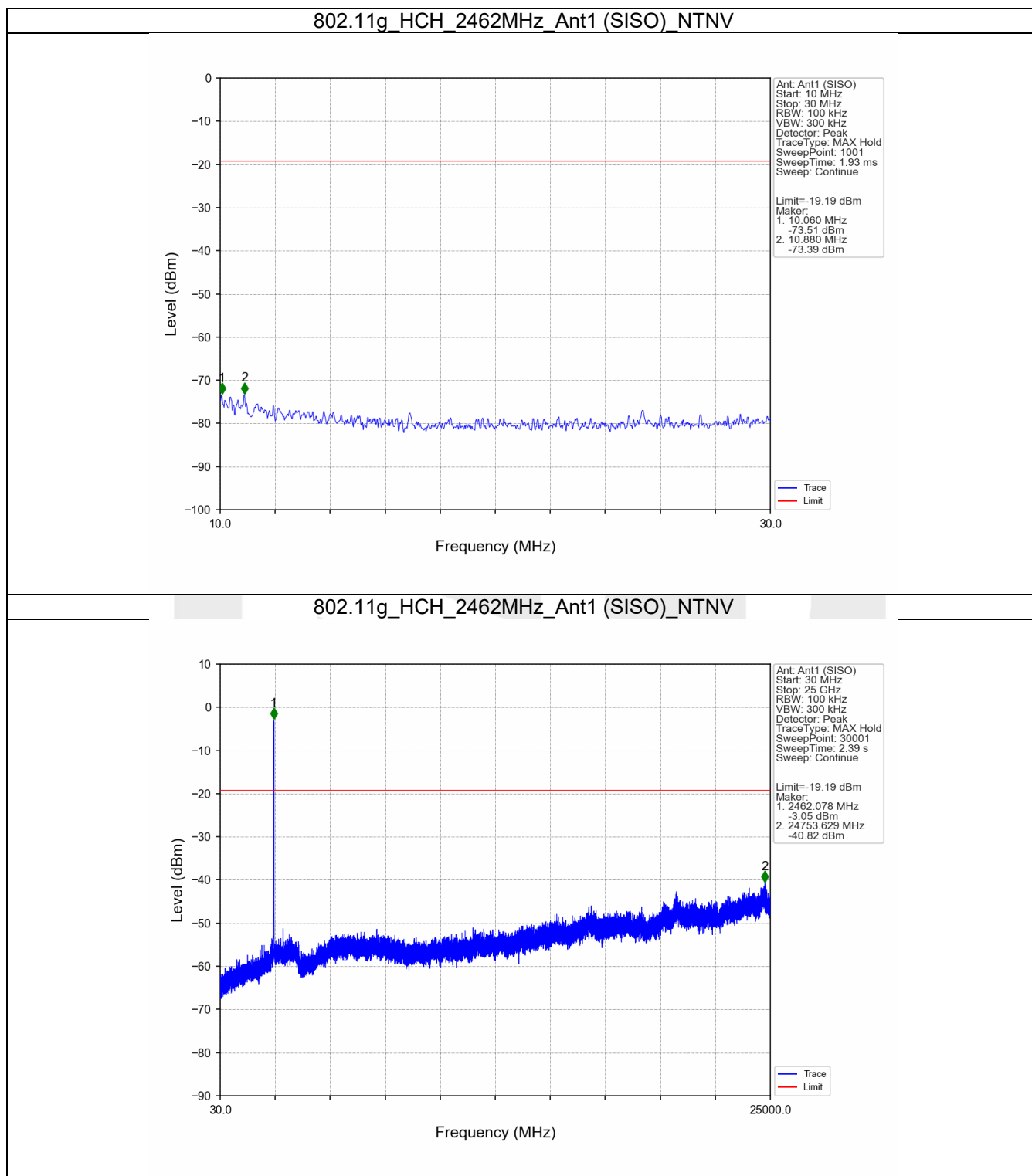


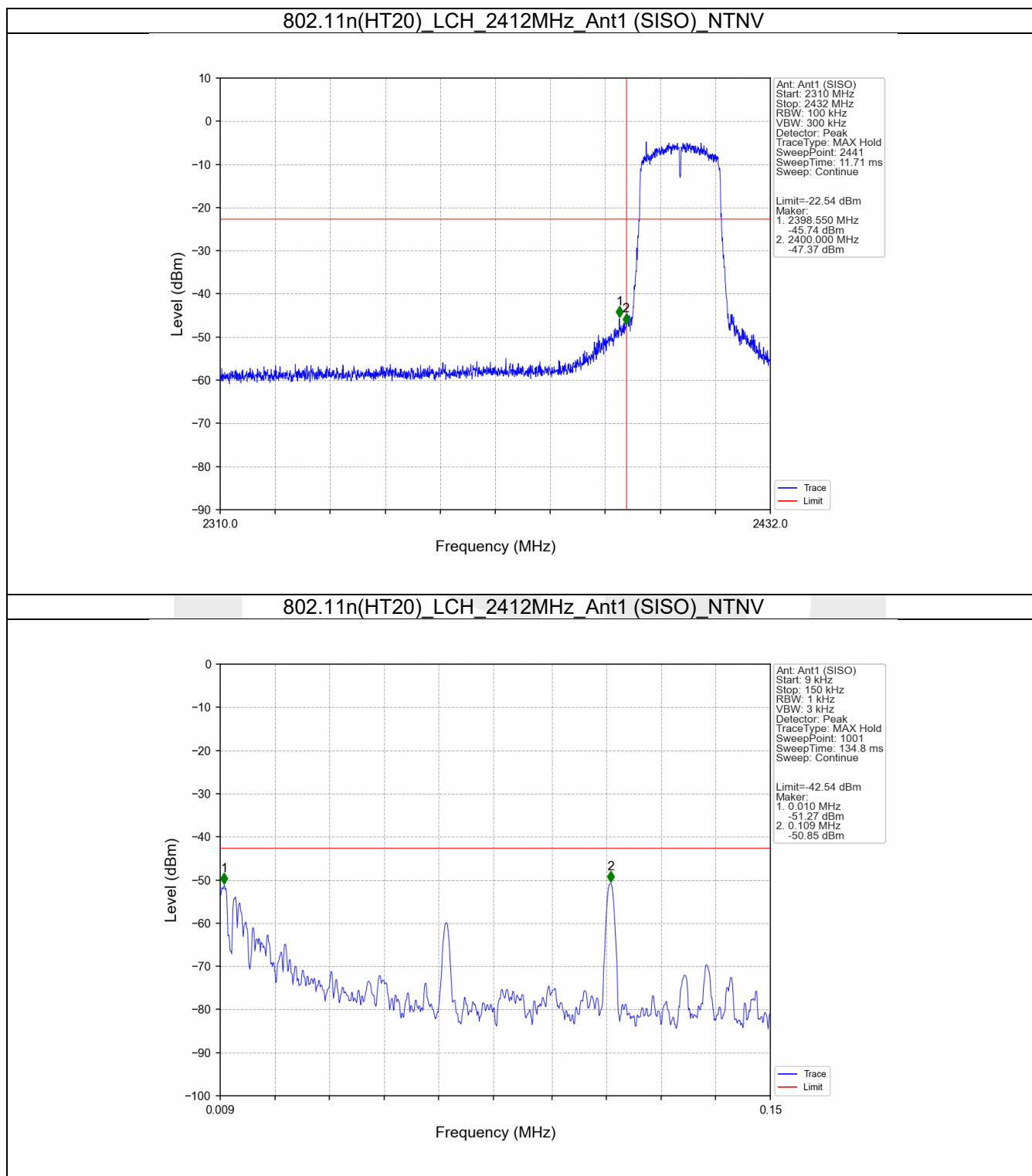


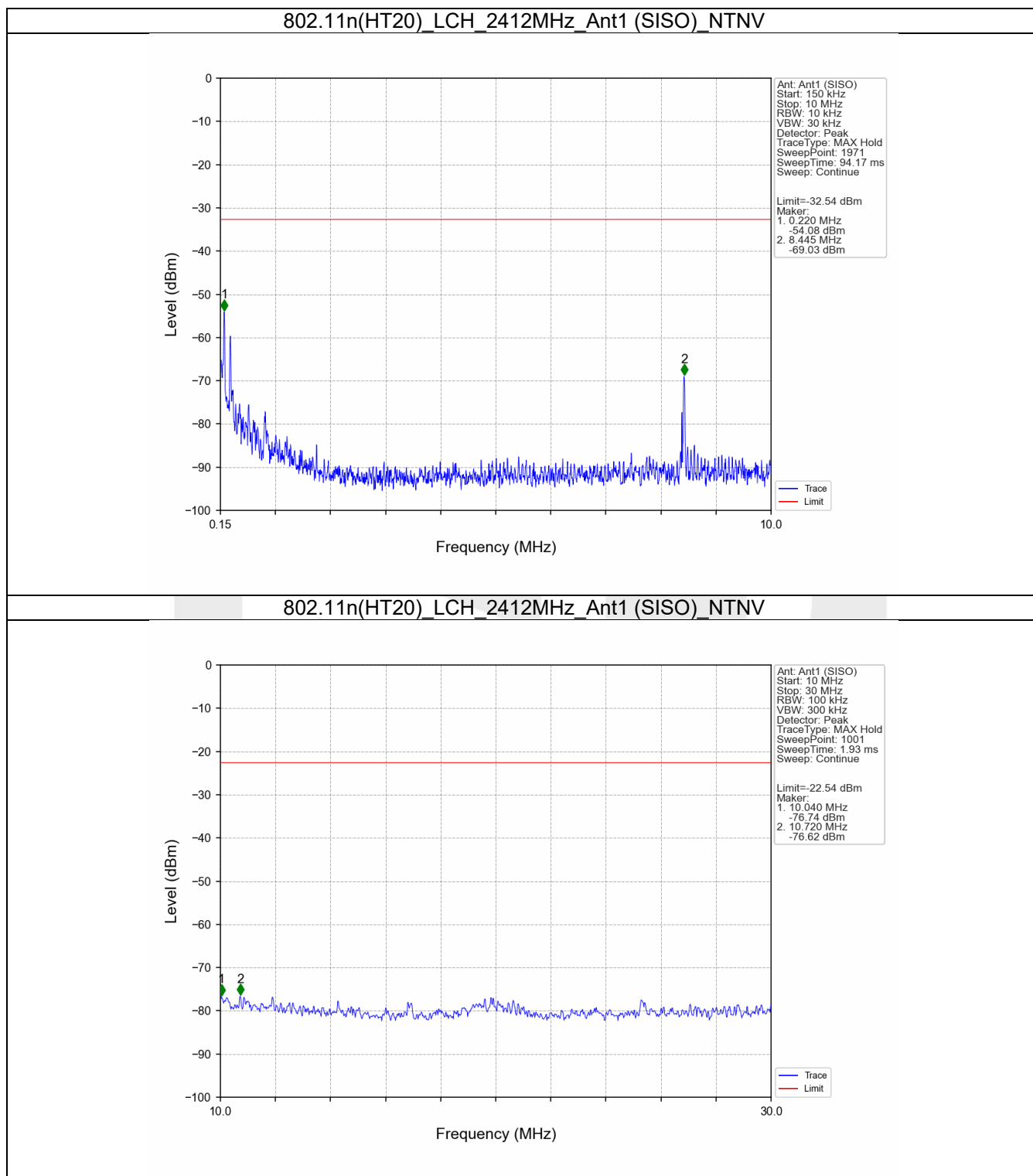


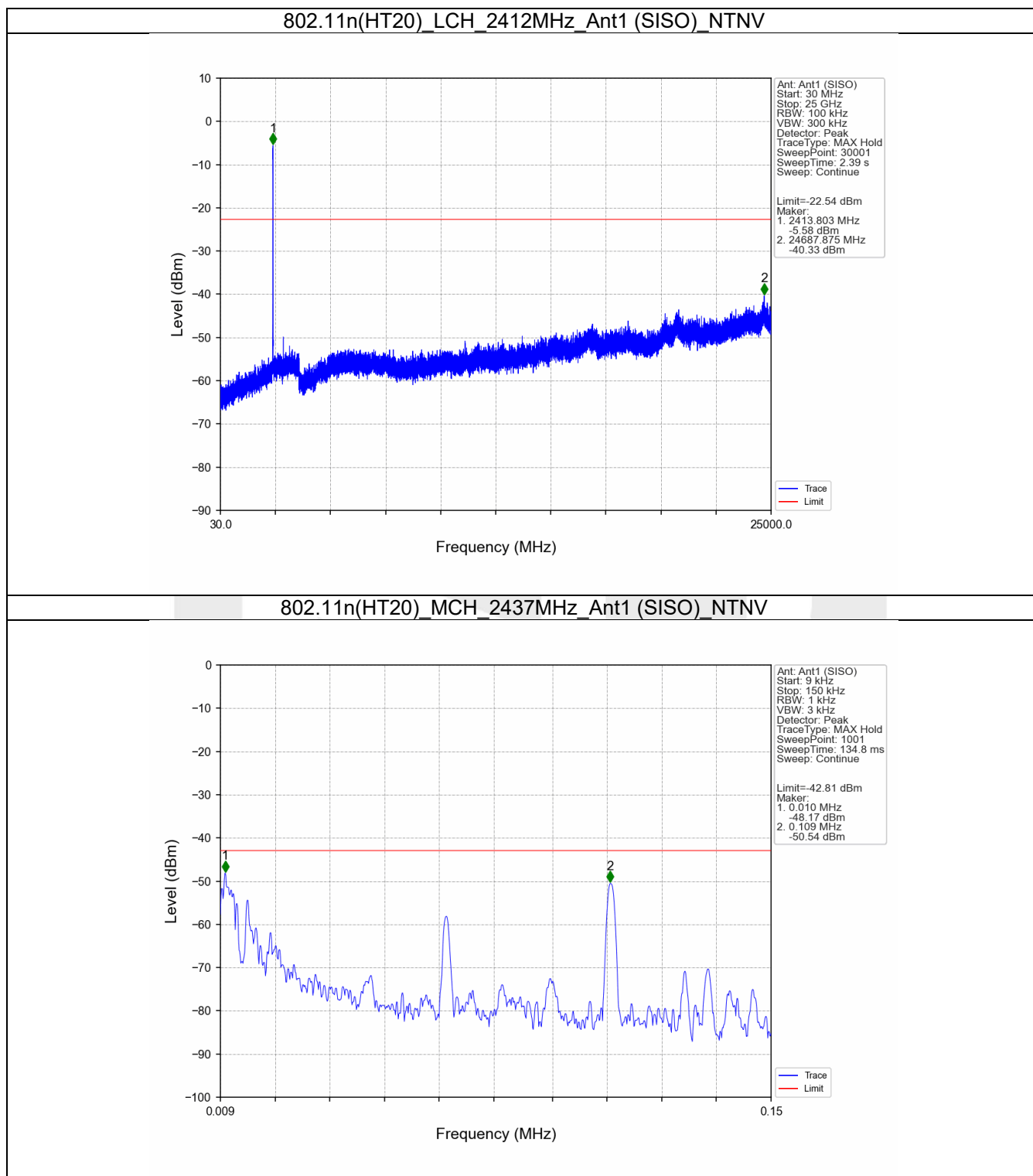


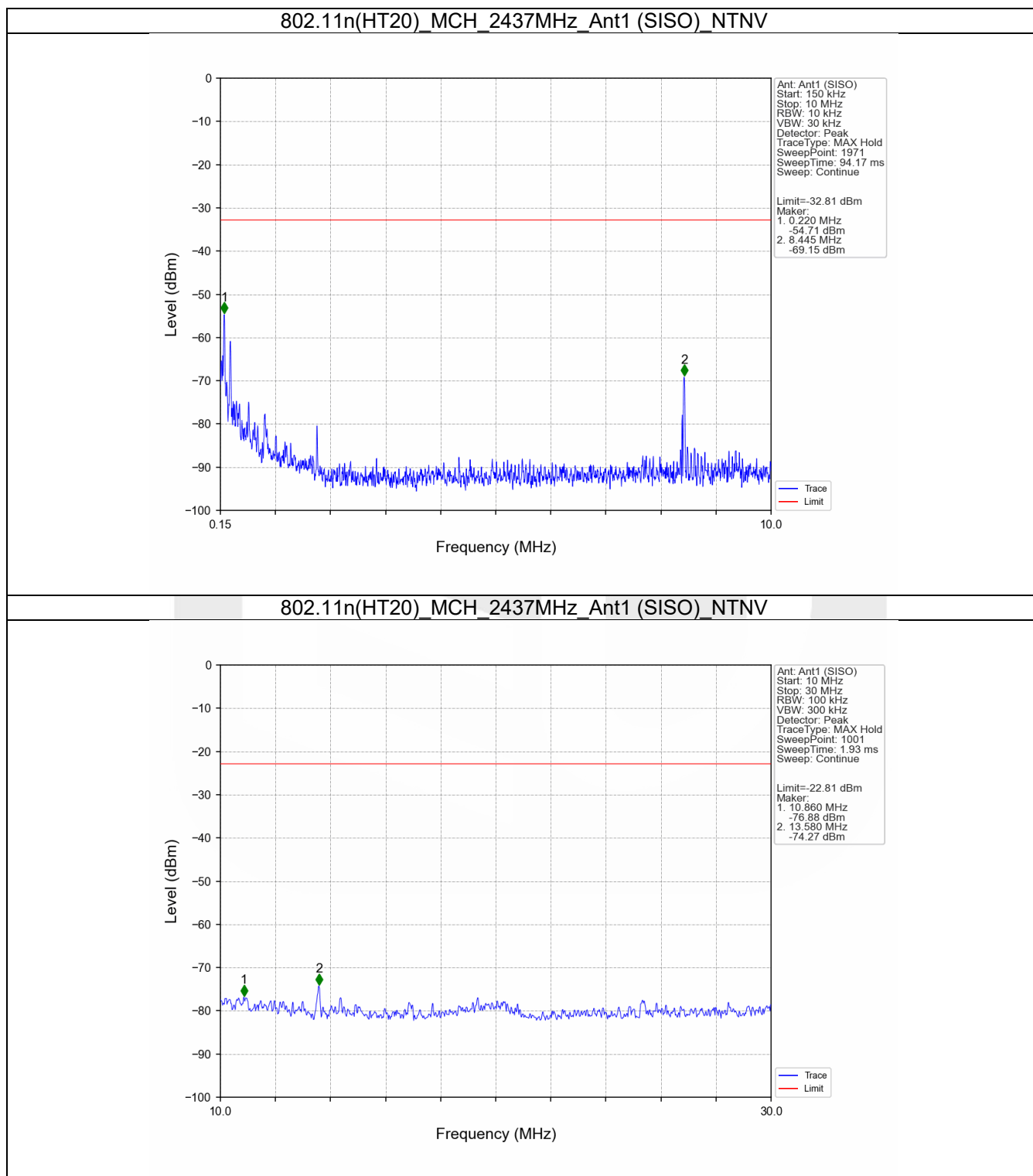


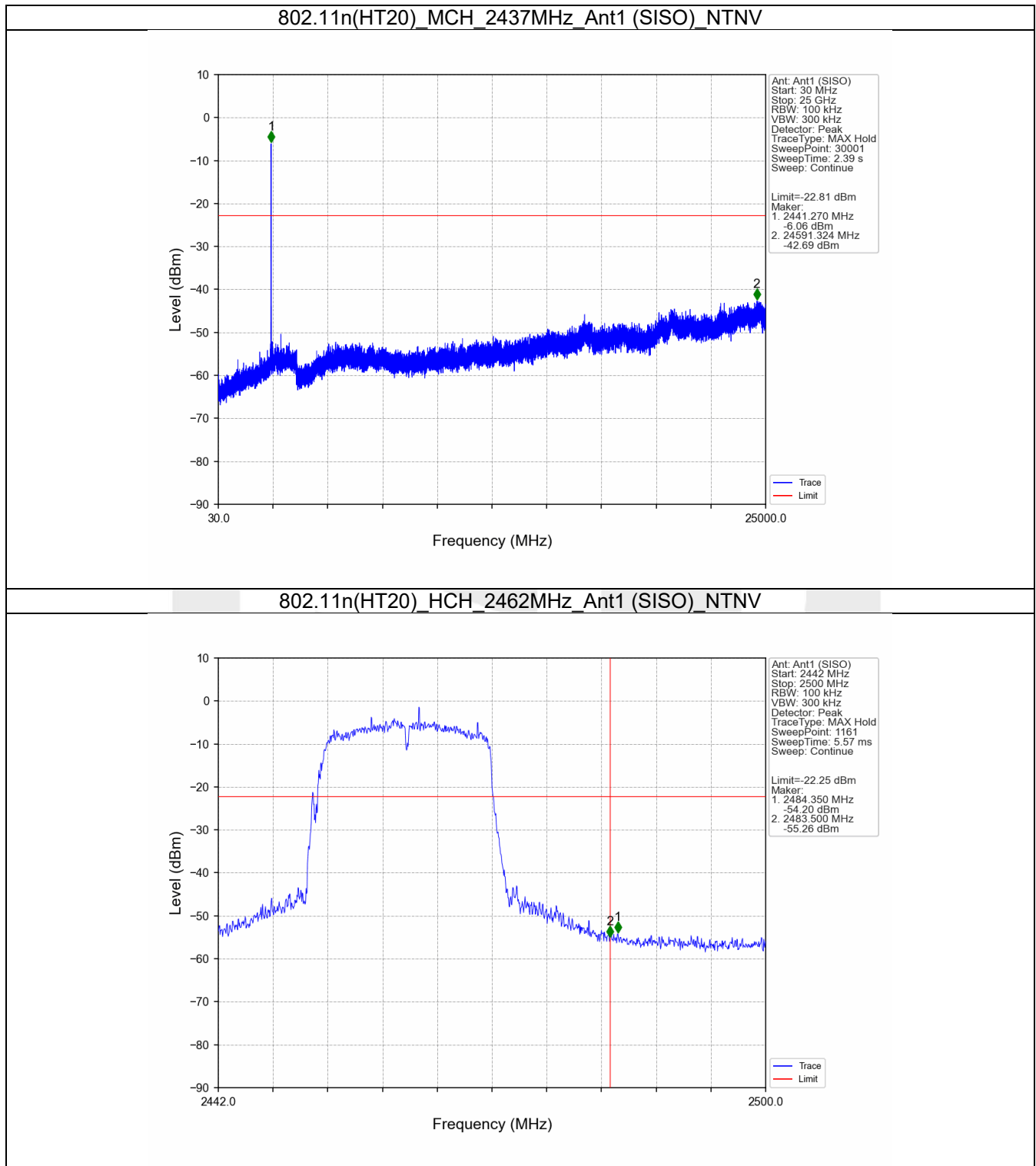


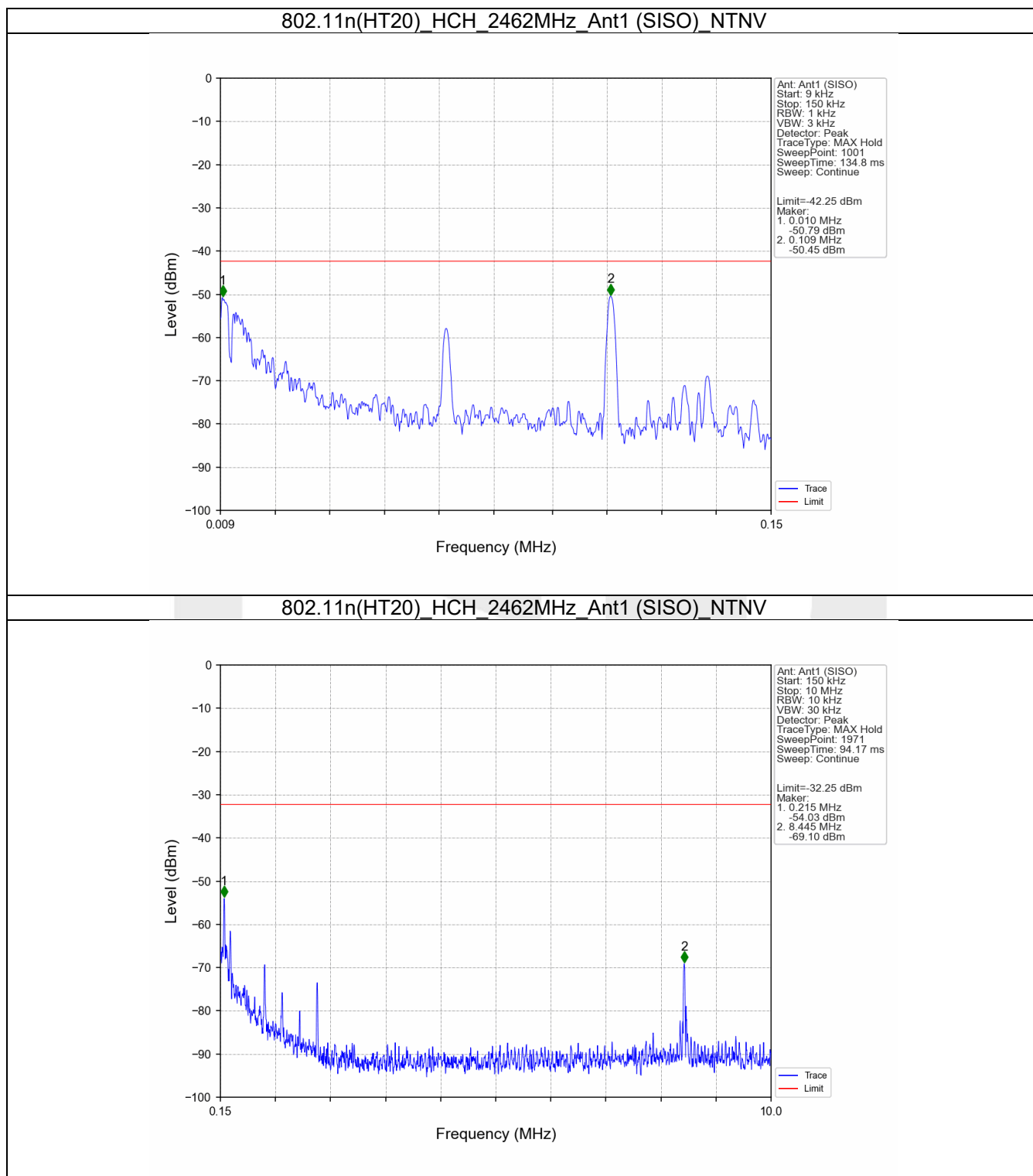


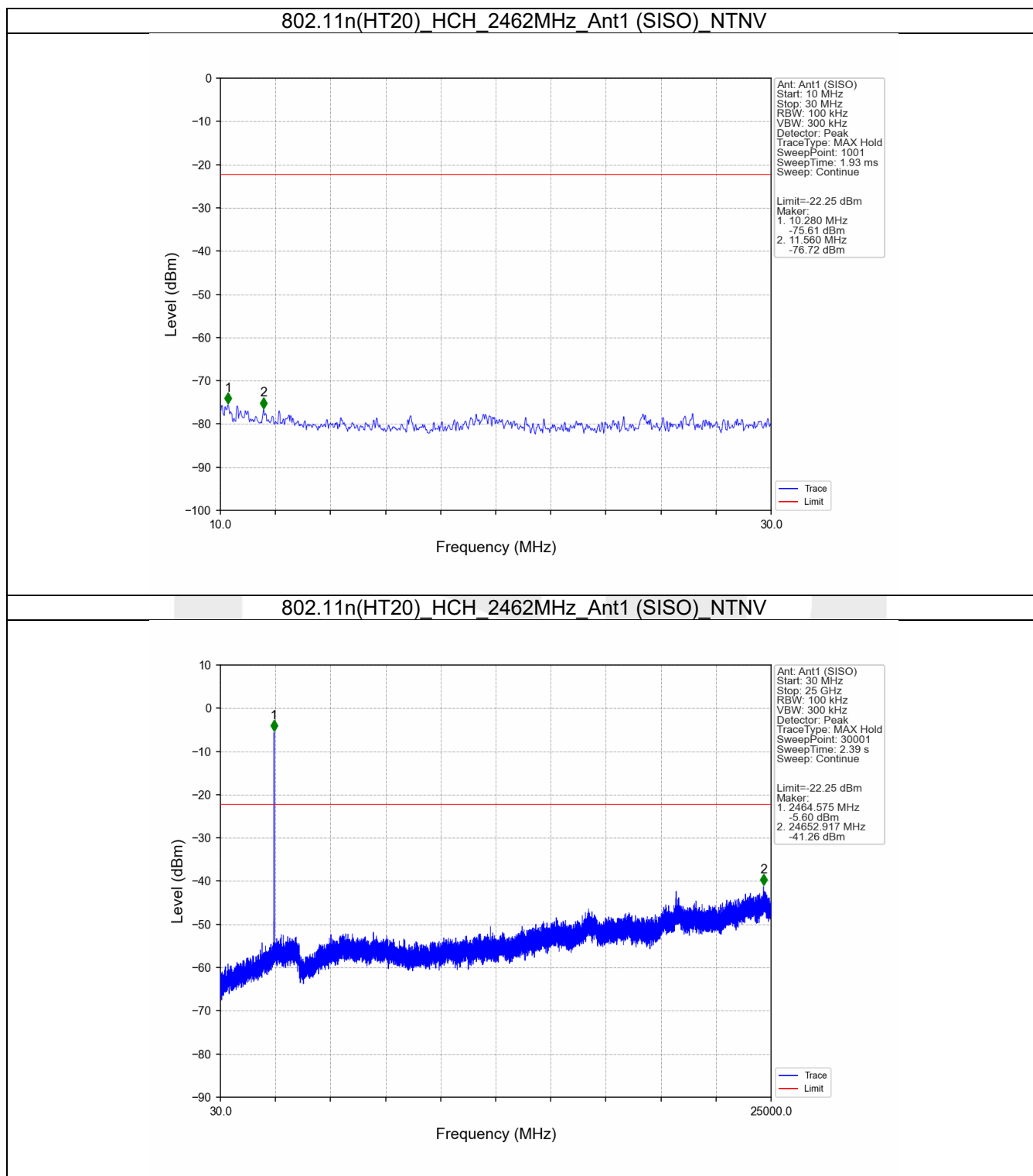


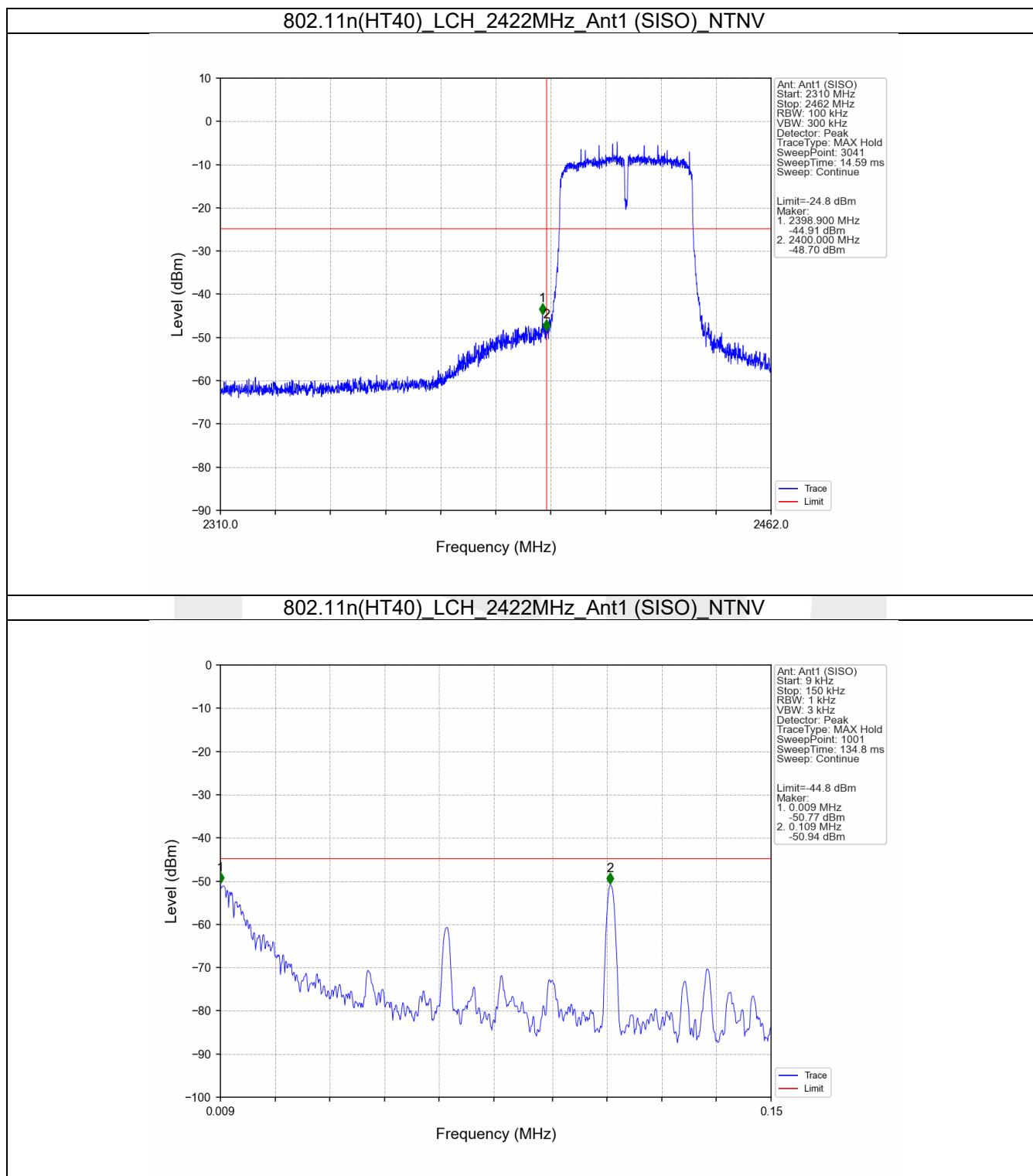


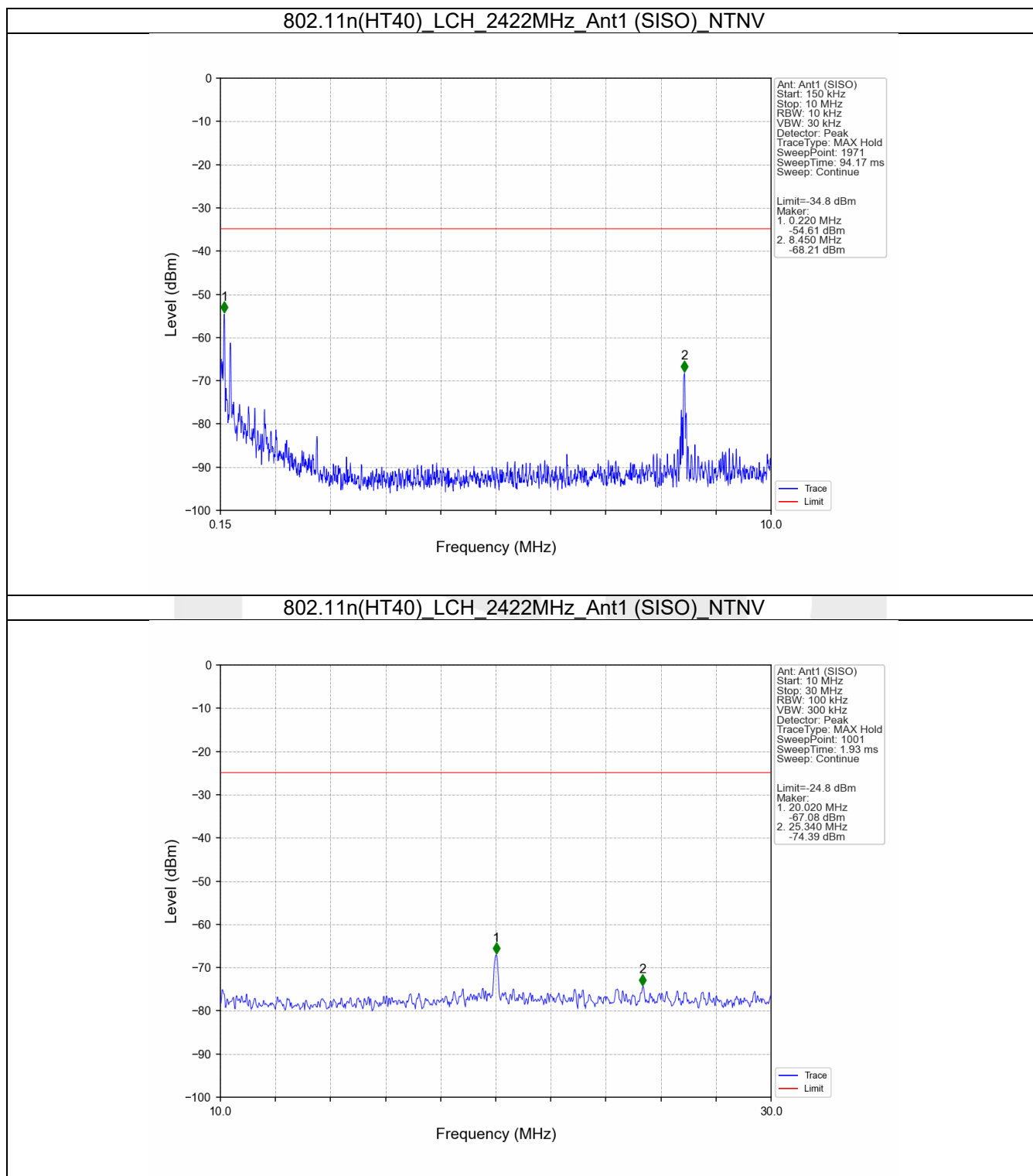


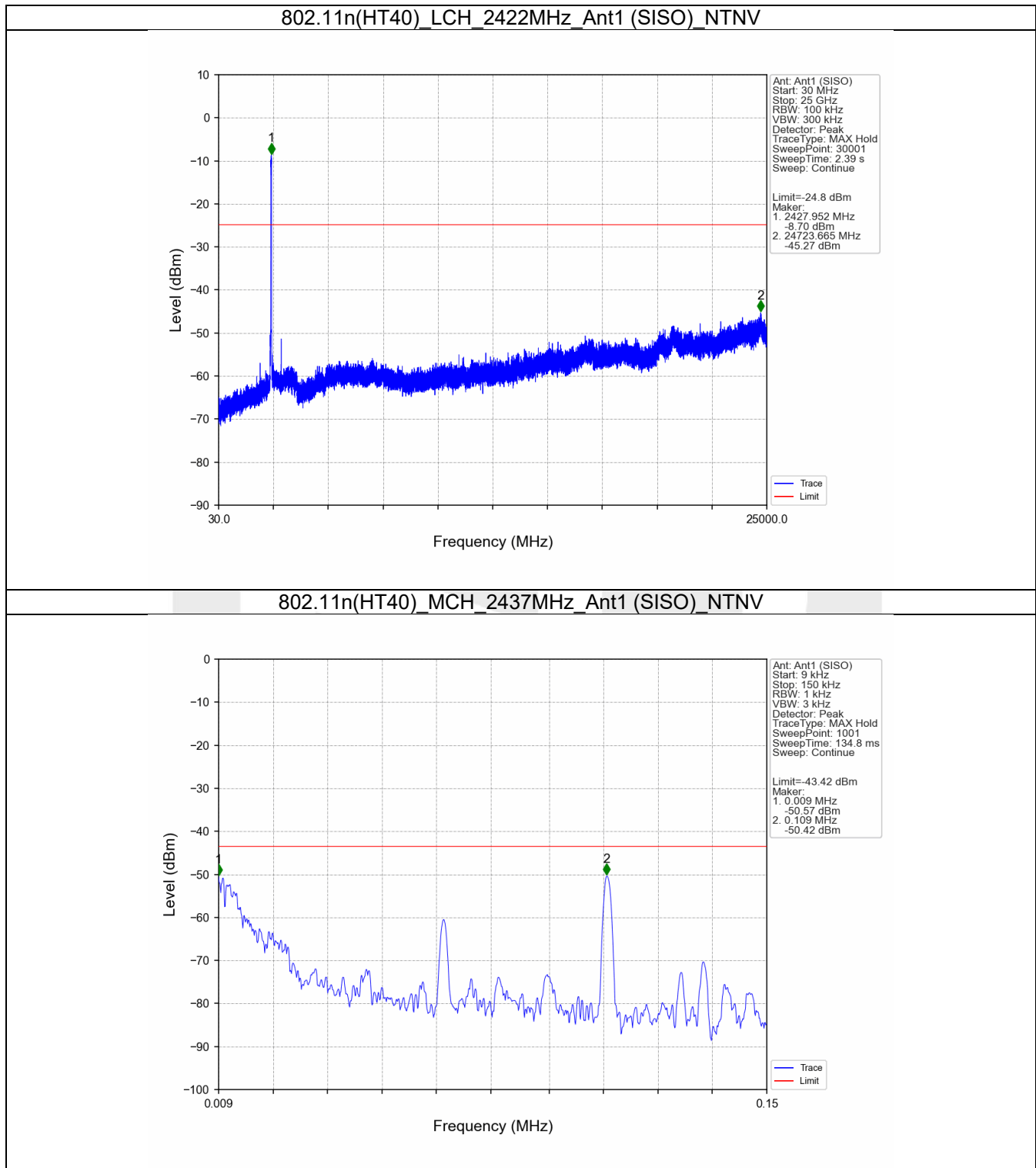


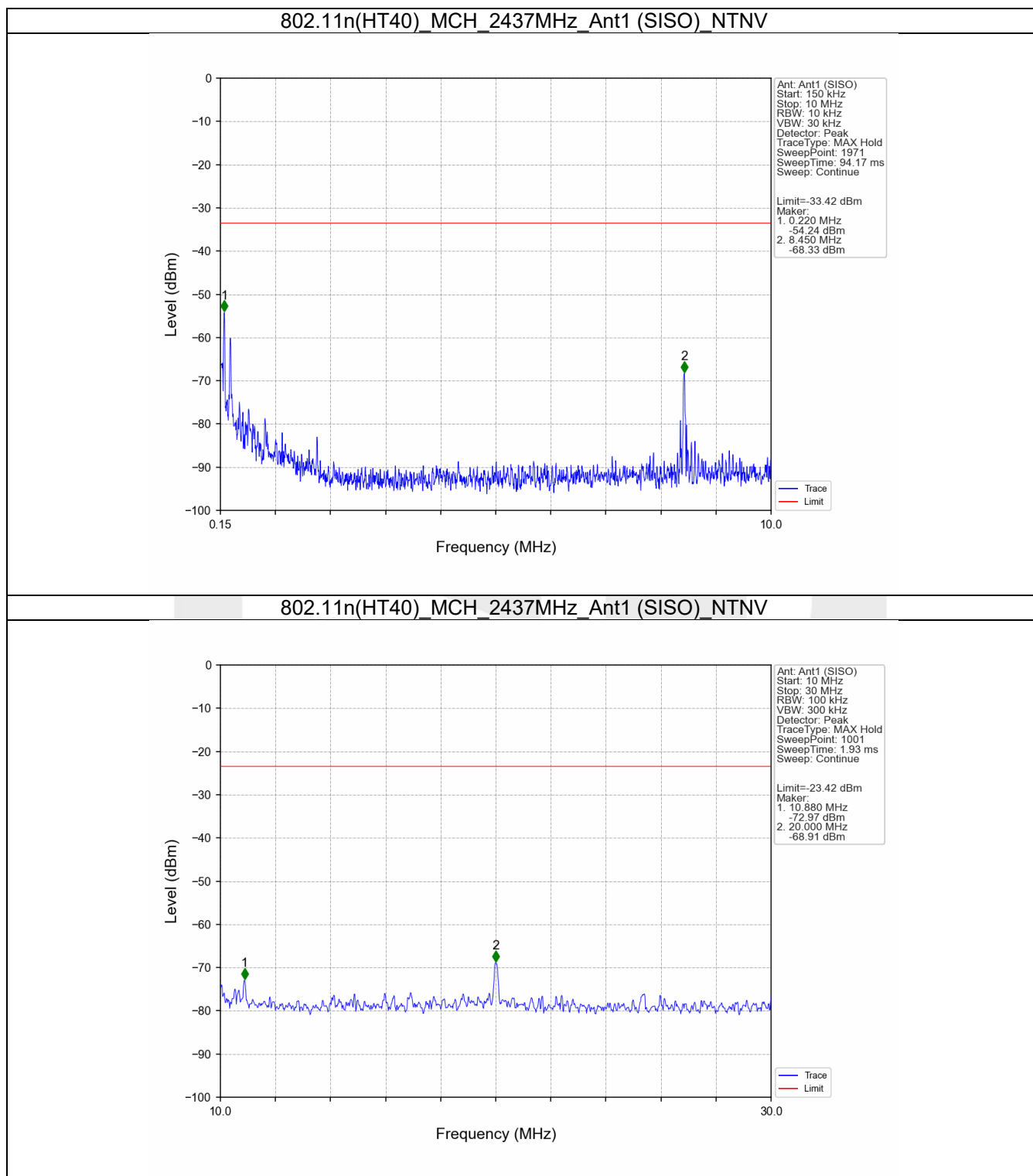


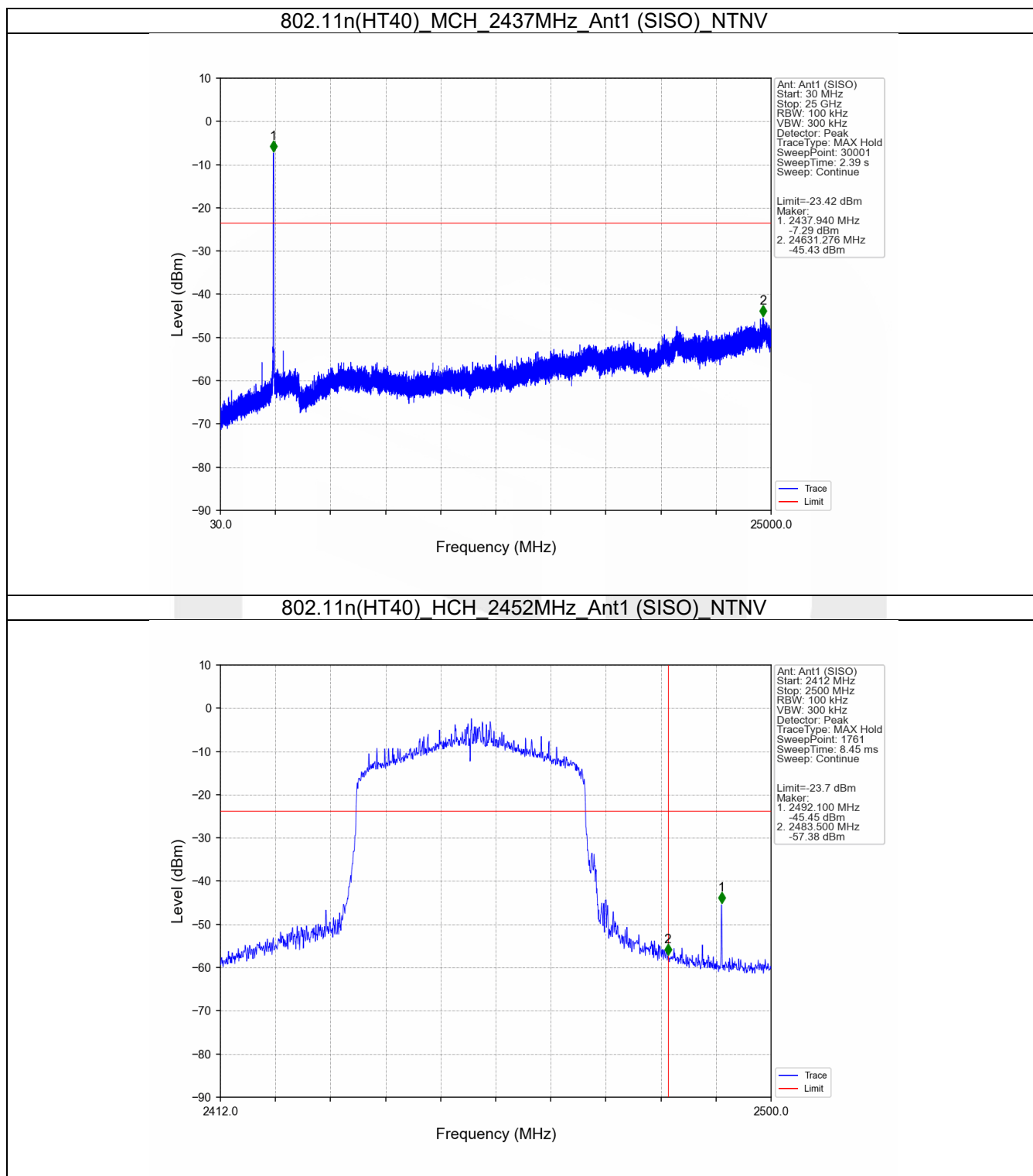


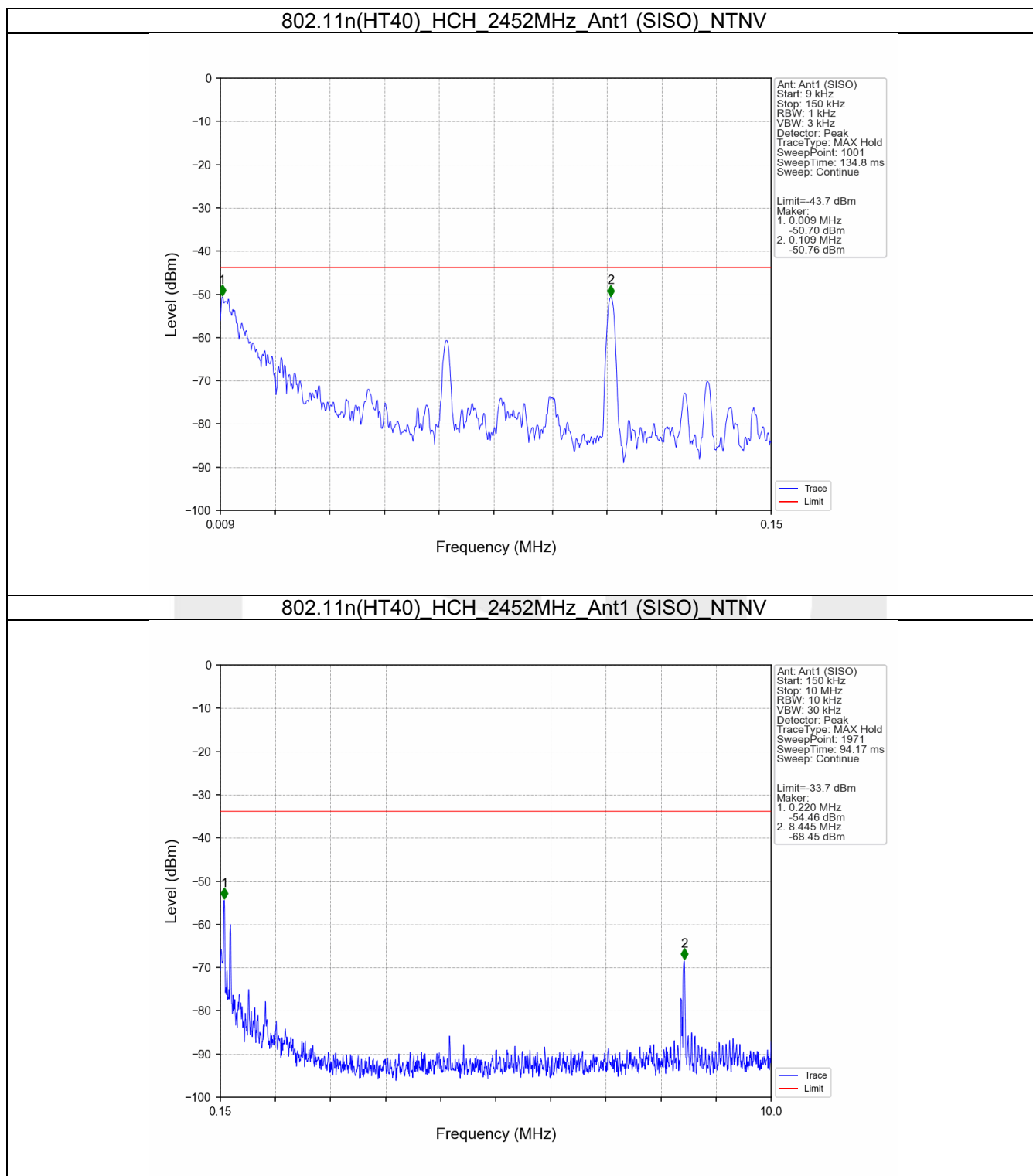


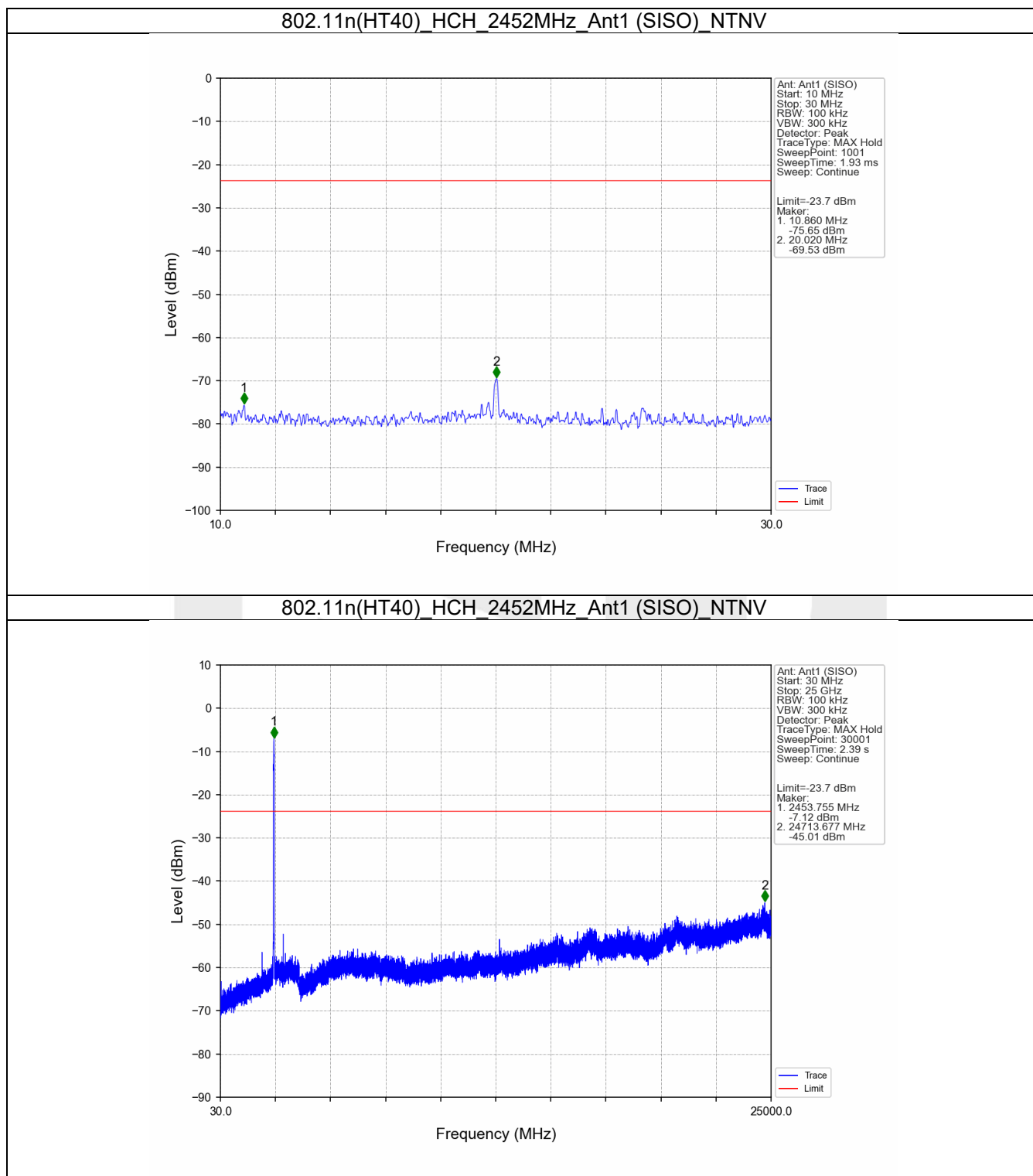












----- End of Report -----