

ANNEX F TEST DATA

For

Project No.:	8234EU012105W
Client:	SHENZHEN ELECTRON TECHNOLOGY CO., LTD.
Product Description:	Android Tablet
Model No.:	WF3285T
FCC ID:	2ABC5-E0073
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-10-28

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

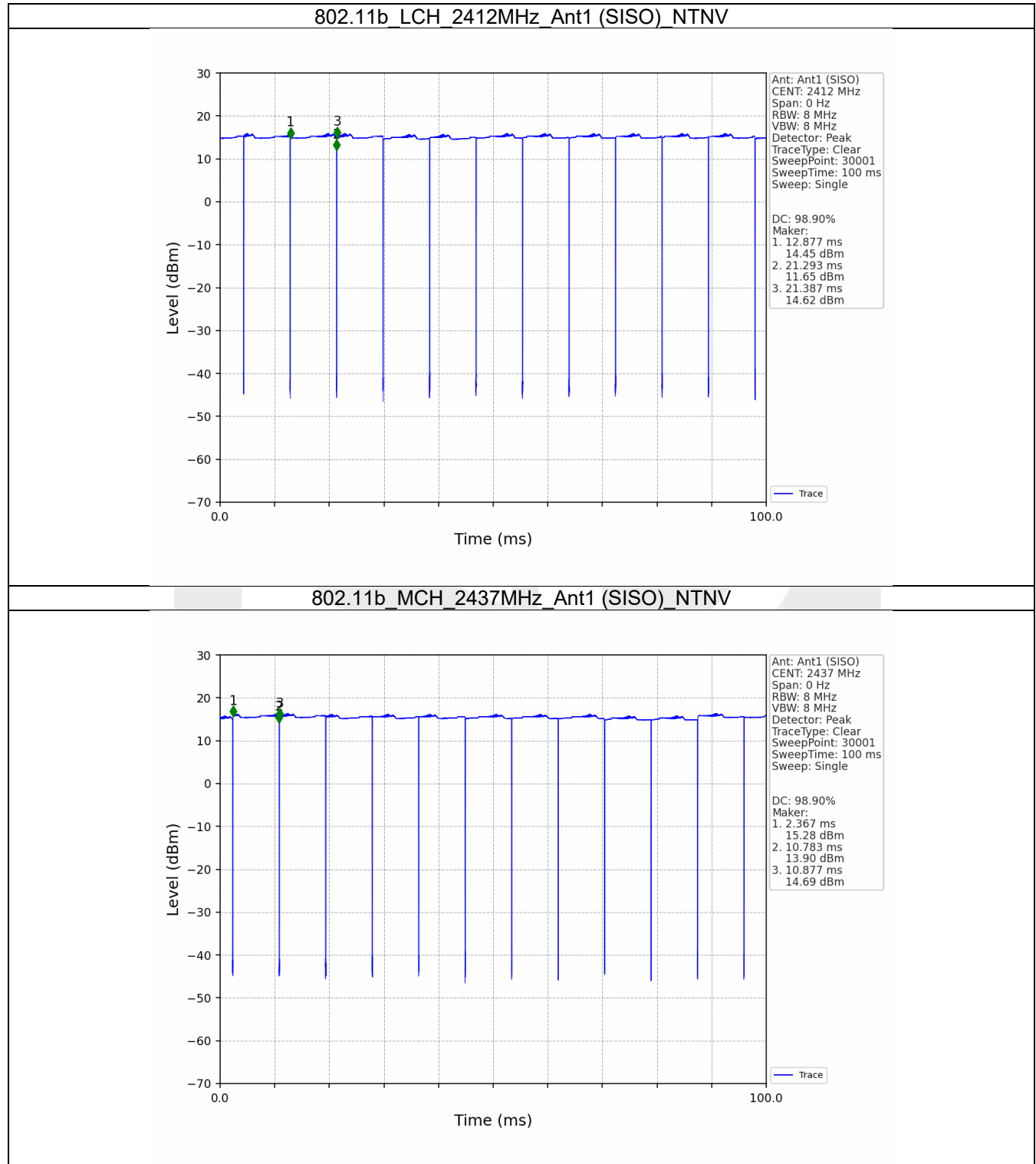
1.1 Test Result

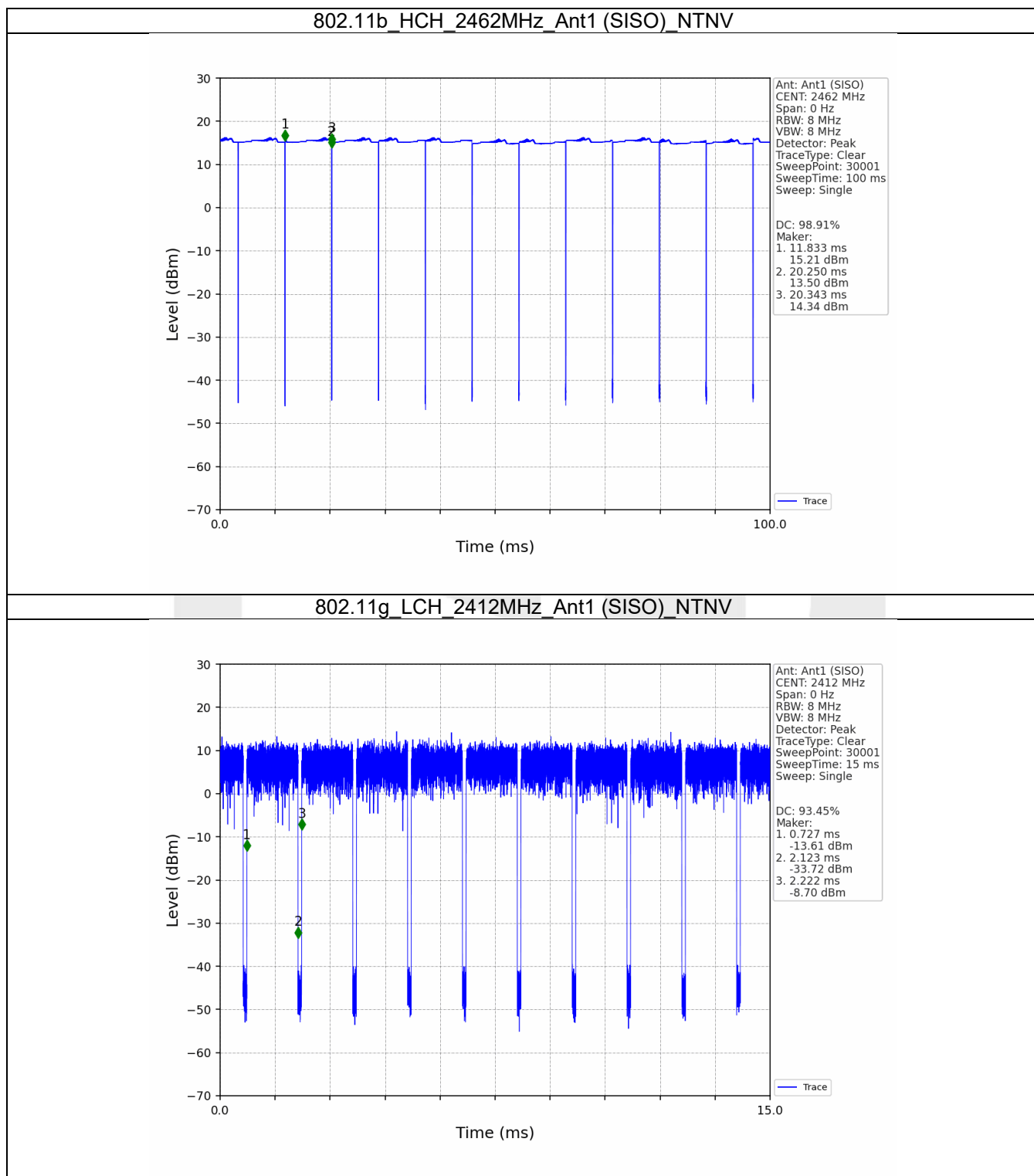
1.1.1 Ant1

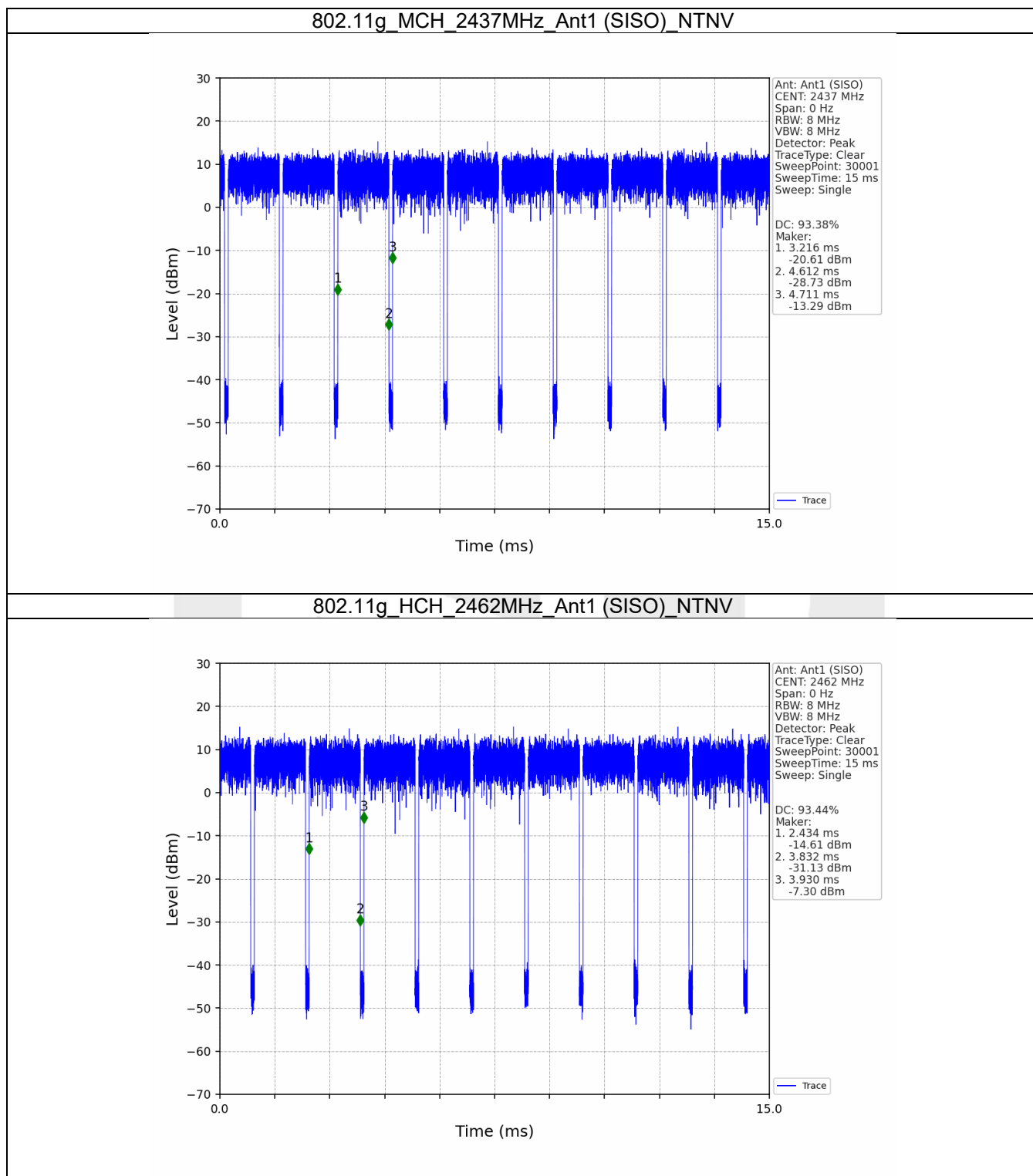
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.416	8.510	98.90	0.05	0.00
		2437	/	/	8.416	8.510	98.90	0.05	0.00
		2462	/	/	8.417	8.510	98.91	0.05	0.00
802.11g	SISO	2412	/	/	1.398	1.496	93.45	0.29	0.03
		2437	/	/	1.396	1.495	93.38	0.30	0.03
		2462	/	/	1.397	1.495	93.44	0.29	0.03
802.11n (HT20)	SISO	2412	/	/	1.309	1.408	92.97	0.32	0.03
		2437	/	/	1.309	1.408	92.97	0.32	0.03
		2462	/	/	1.309	1.408	92.97	0.32	0.00
802.11ax (HEW20)	SISO	2412	RU242	61	1.021	1.120	91.16	0.40	0.03
		2437	RU242	61	1.022	1.121	91.17	0.40	0.06
		2462	RU242	61	1.021	1.121	91.08	0.41	0.03

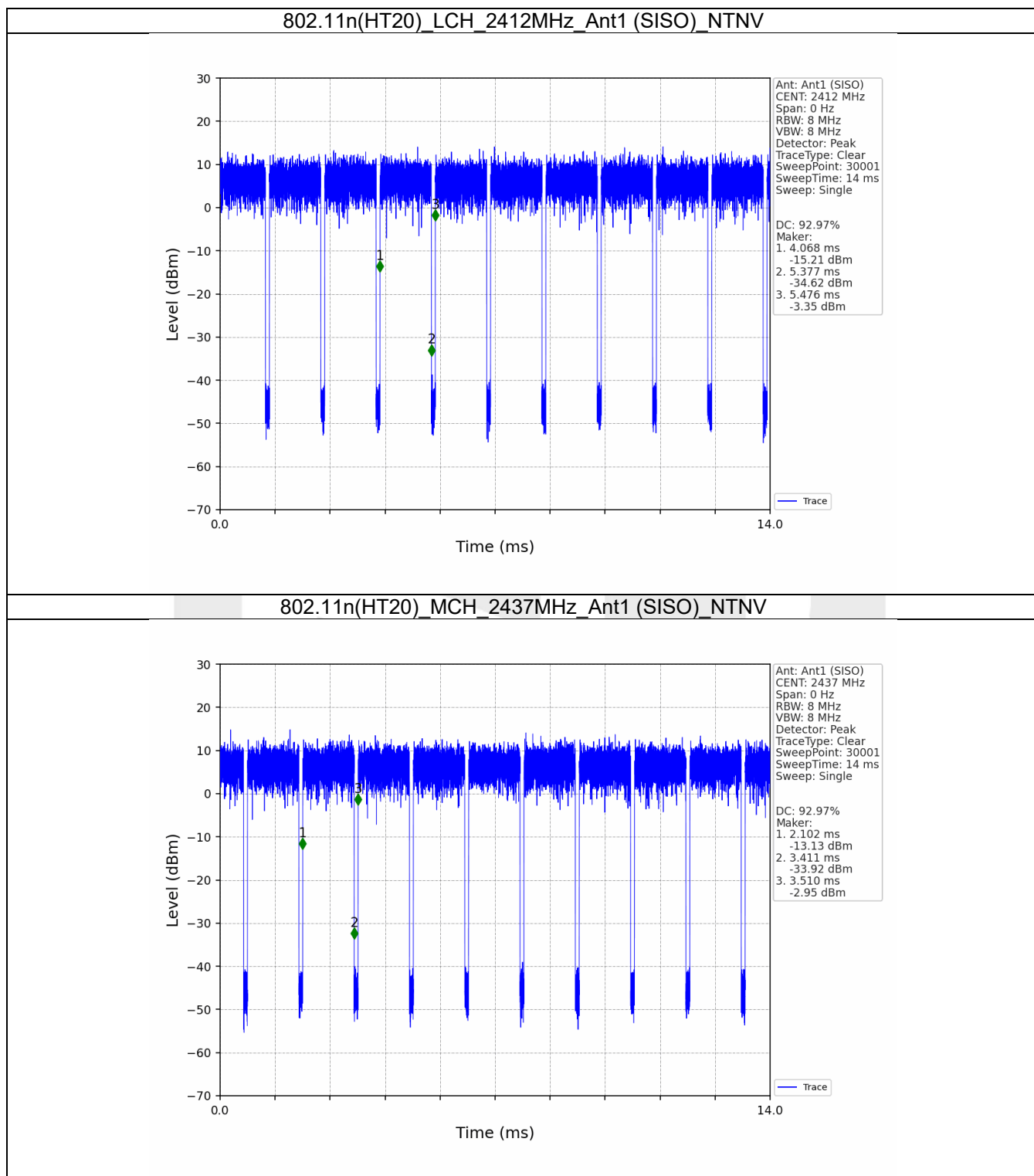
1.2 Test Graph

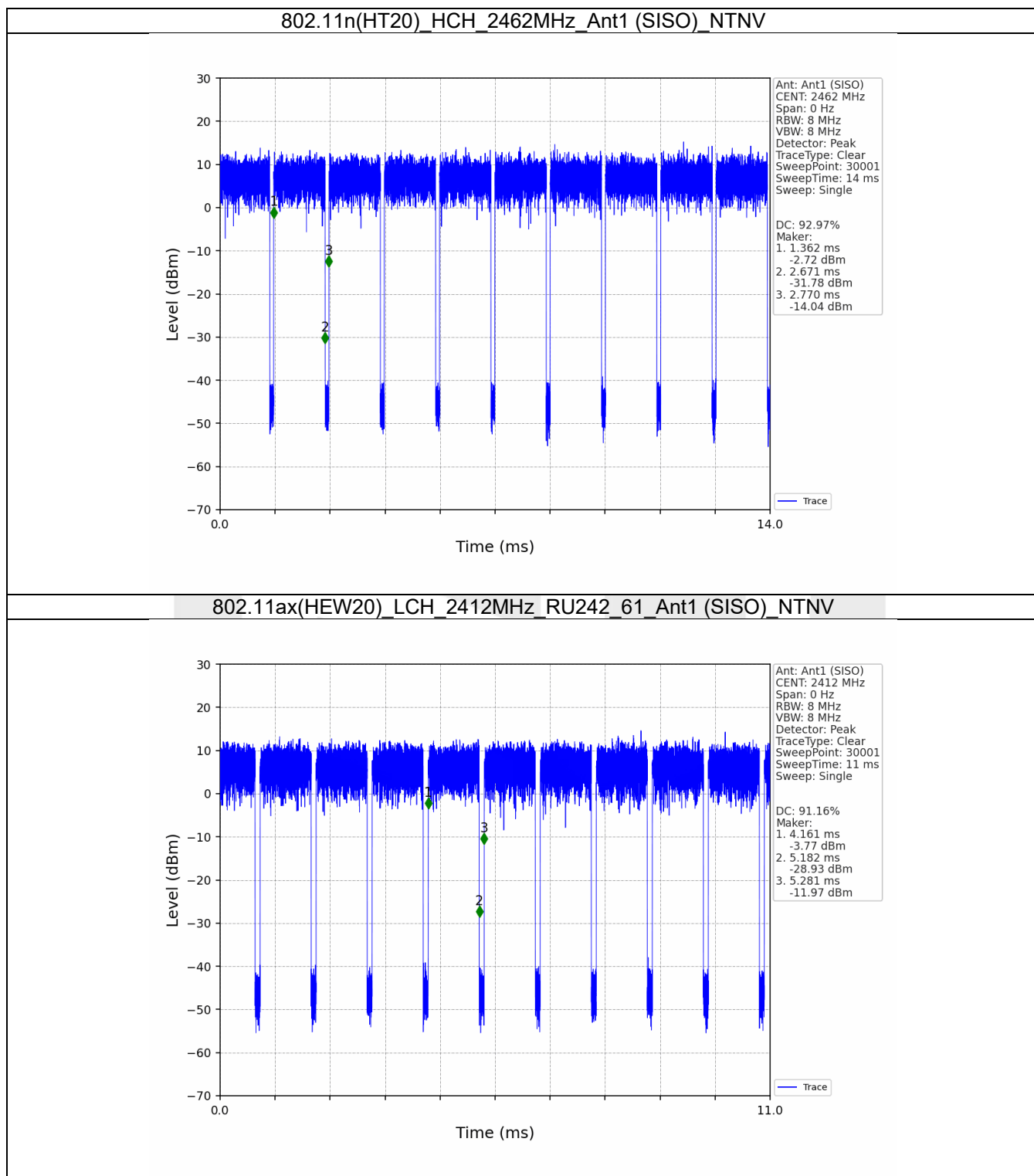
1.2.1 Ant1



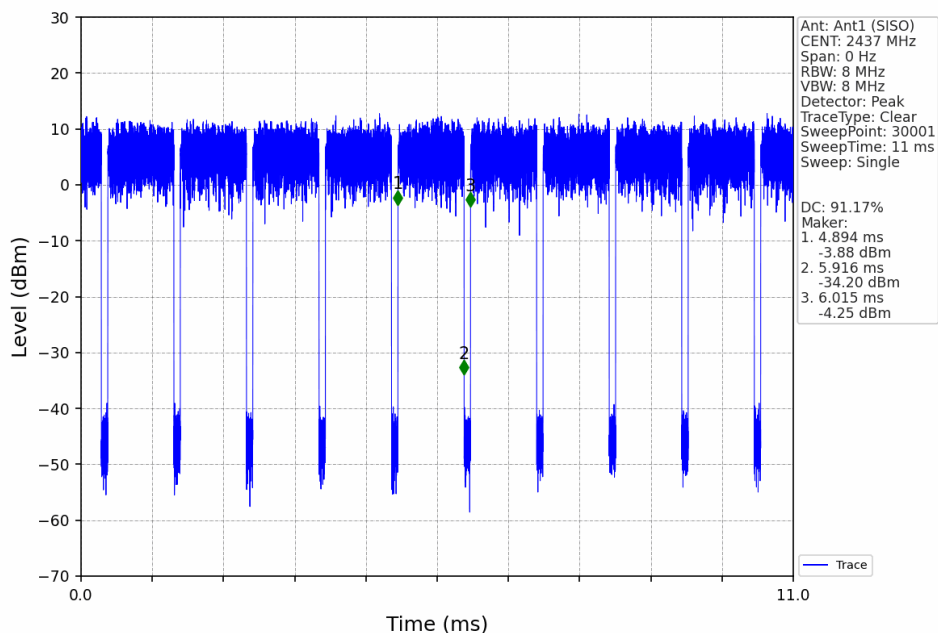




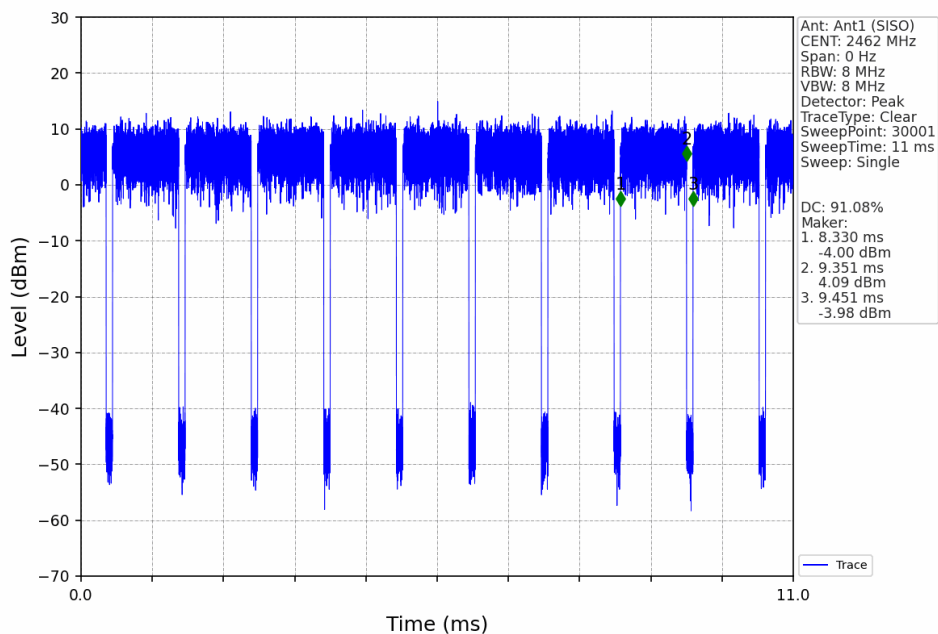




802.11ax(HEW20)_MCH_2437MHz_RU242_61_Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_RU242_61_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

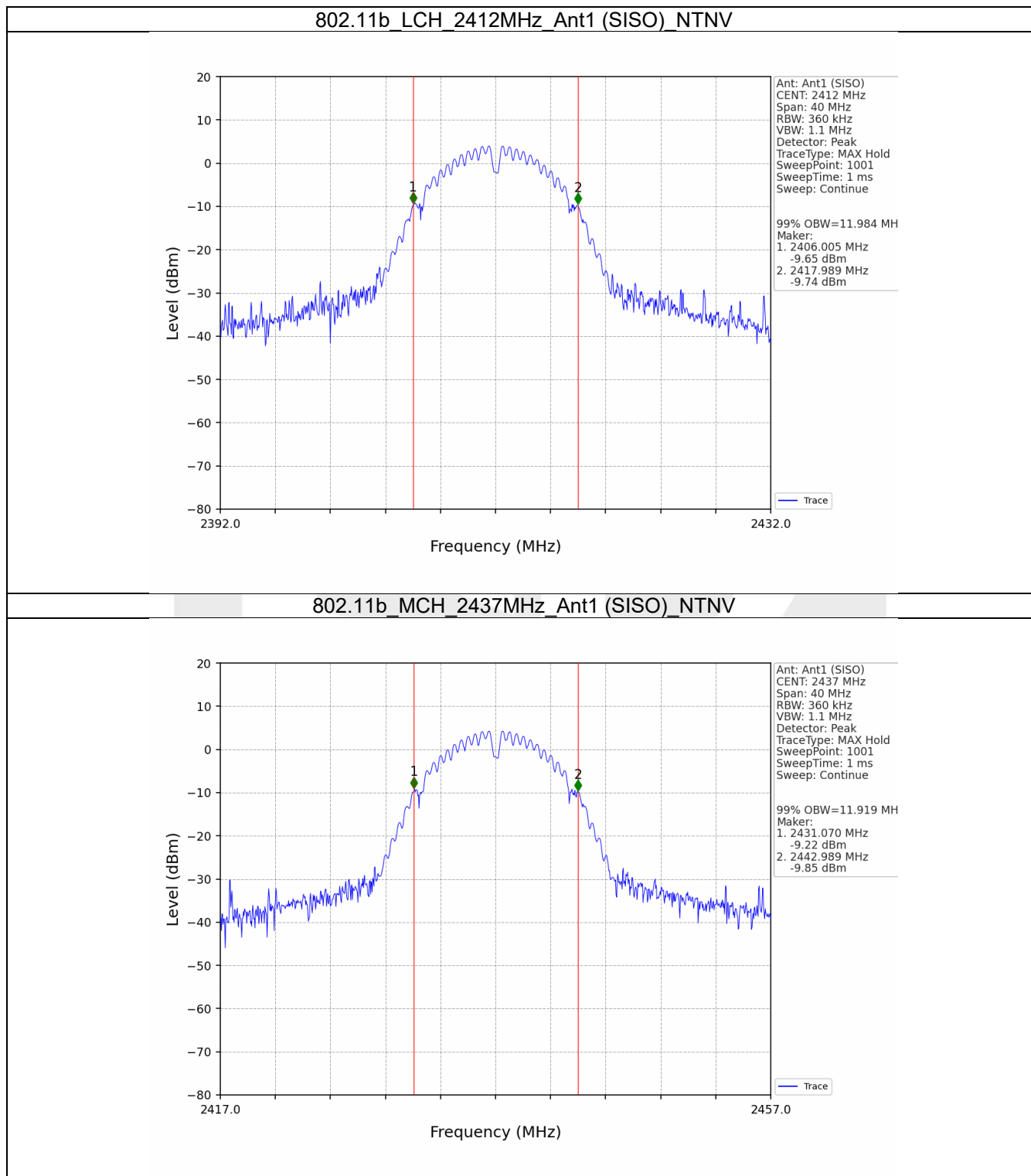
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	11.984	/	Pass
		2437	/	/	1	11.919	/	Pass
		2462	/	/	1	11.861	/	Pass
802.11g	SISO	2412	/	/	1	17.941	/	Pass
		2437	/	/	1	17.937	/	Pass
		2462	/	/	1	17.925	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	18.801	/	Pass
		2437	/	/	1	18.890	/	Pass
		2462	/	/	1	18.705	/	Pass
802.11ax (HEW20)	SISO	2412	RU242	61	1	19.159	/	Pass
		2437	RU242	61	1	19.150	/	Pass
		2462	RU242	61	1	19.091	/	Pass

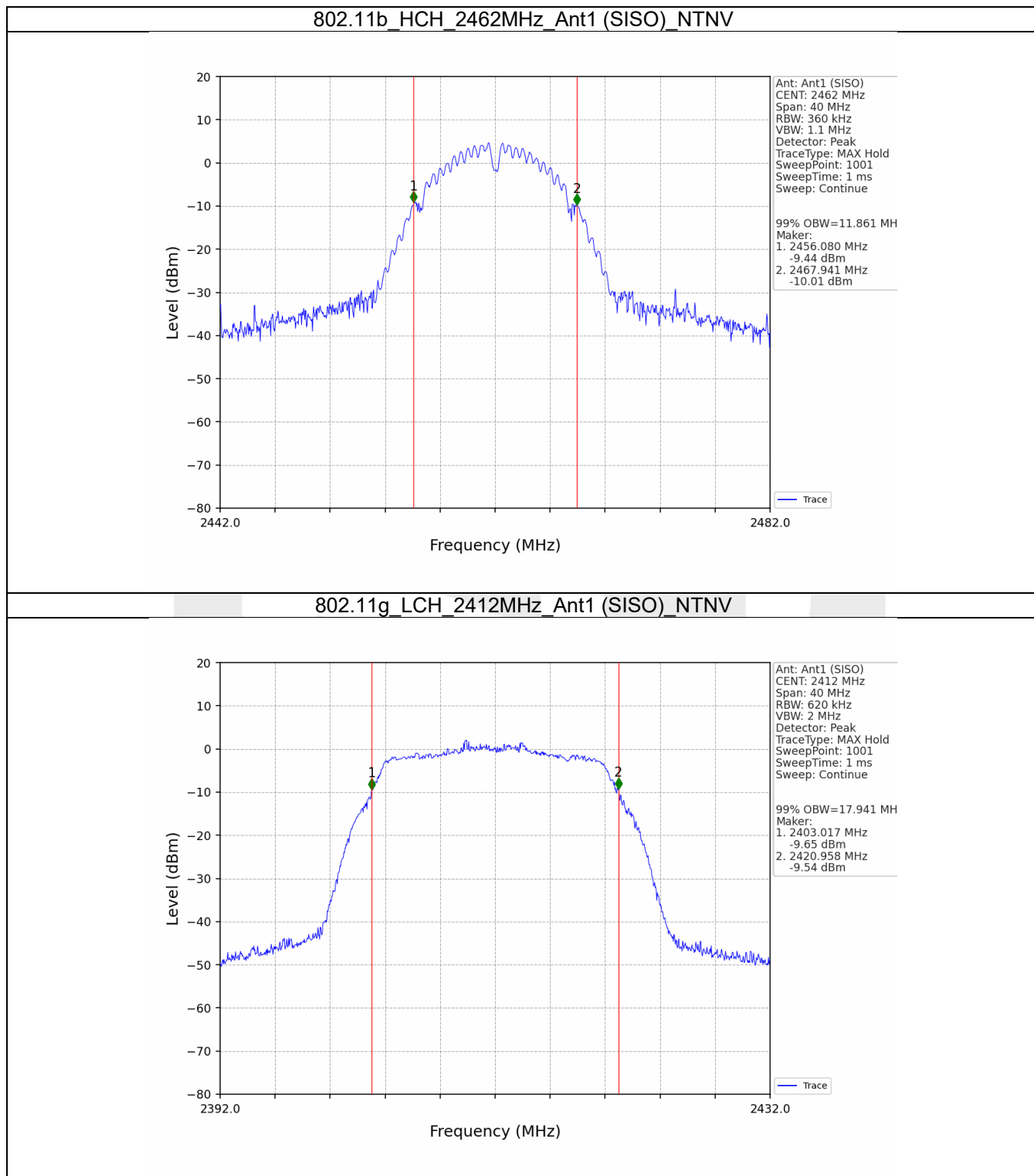
2.1.2 6dB BW

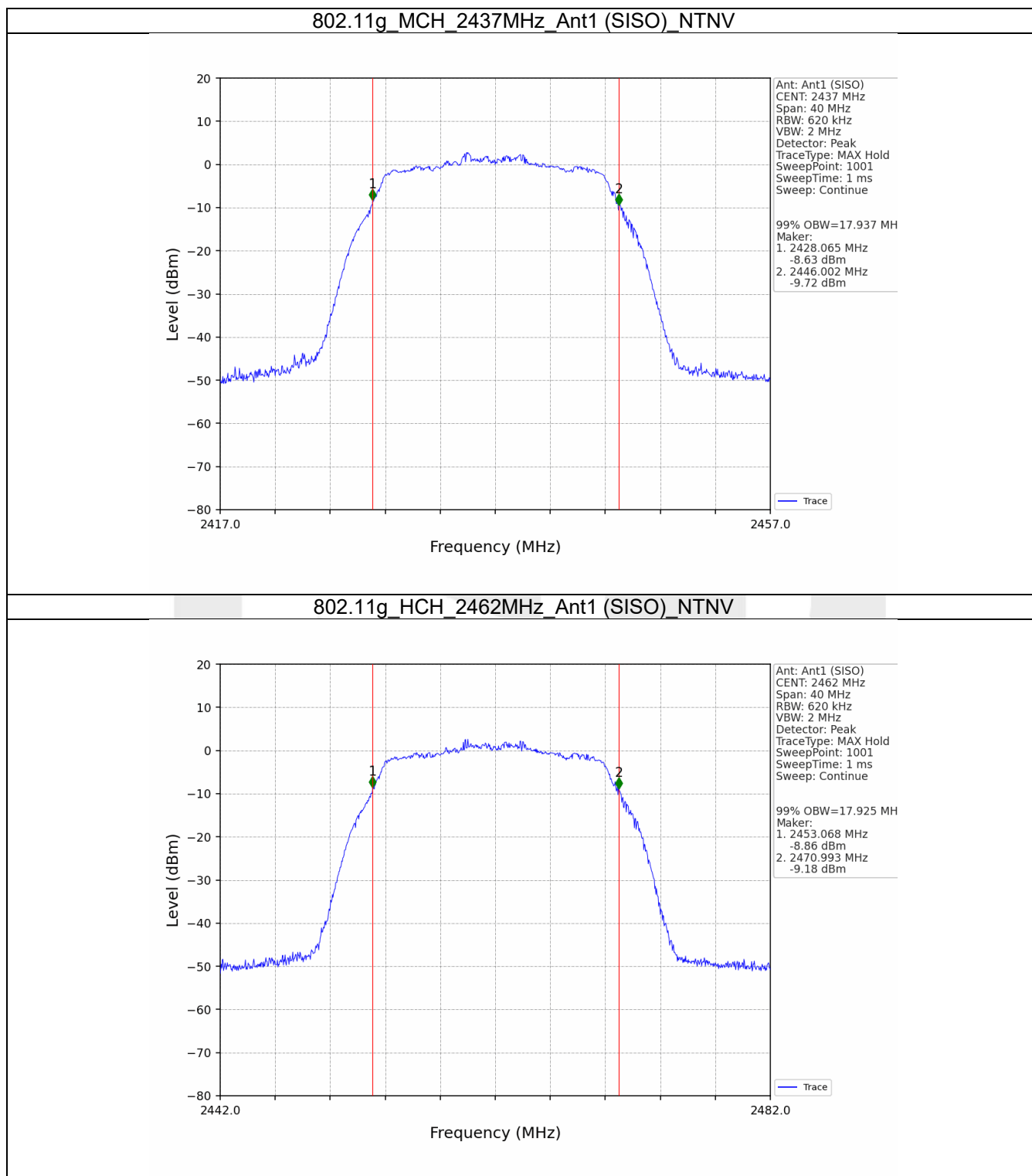
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	8.152	>=0.5	Pass
		2437	/	/	1	8.151	>=0.5	Pass
		2462	/	/	1	8.162	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.124	>=0.5	Pass
		2437	/	/	1	16.096	>=0.5	Pass
		2462	/	/	1	16.165	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.651	>=0.5	Pass
		2437	/	/	1	17.588	>=0.5	Pass
		2462	/	/	1	17.475	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	RU242	61	1	18.614	>=0.5	Pass
		2437	RU242	61	1	18.243	>=0.5	Pass
		2462	RU242	61	1	18.678	>=0.5	Pass

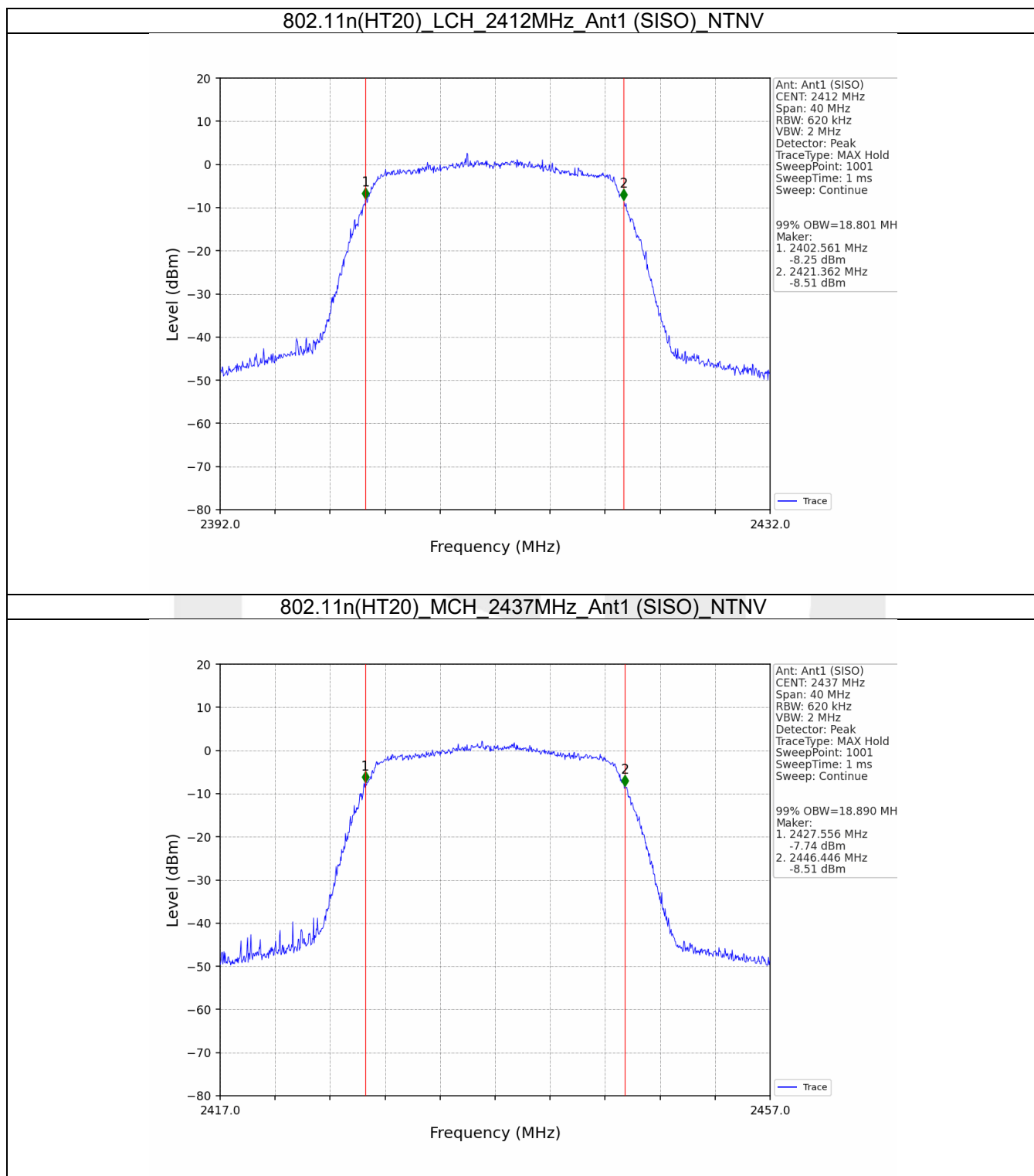
2.2 Test Graph

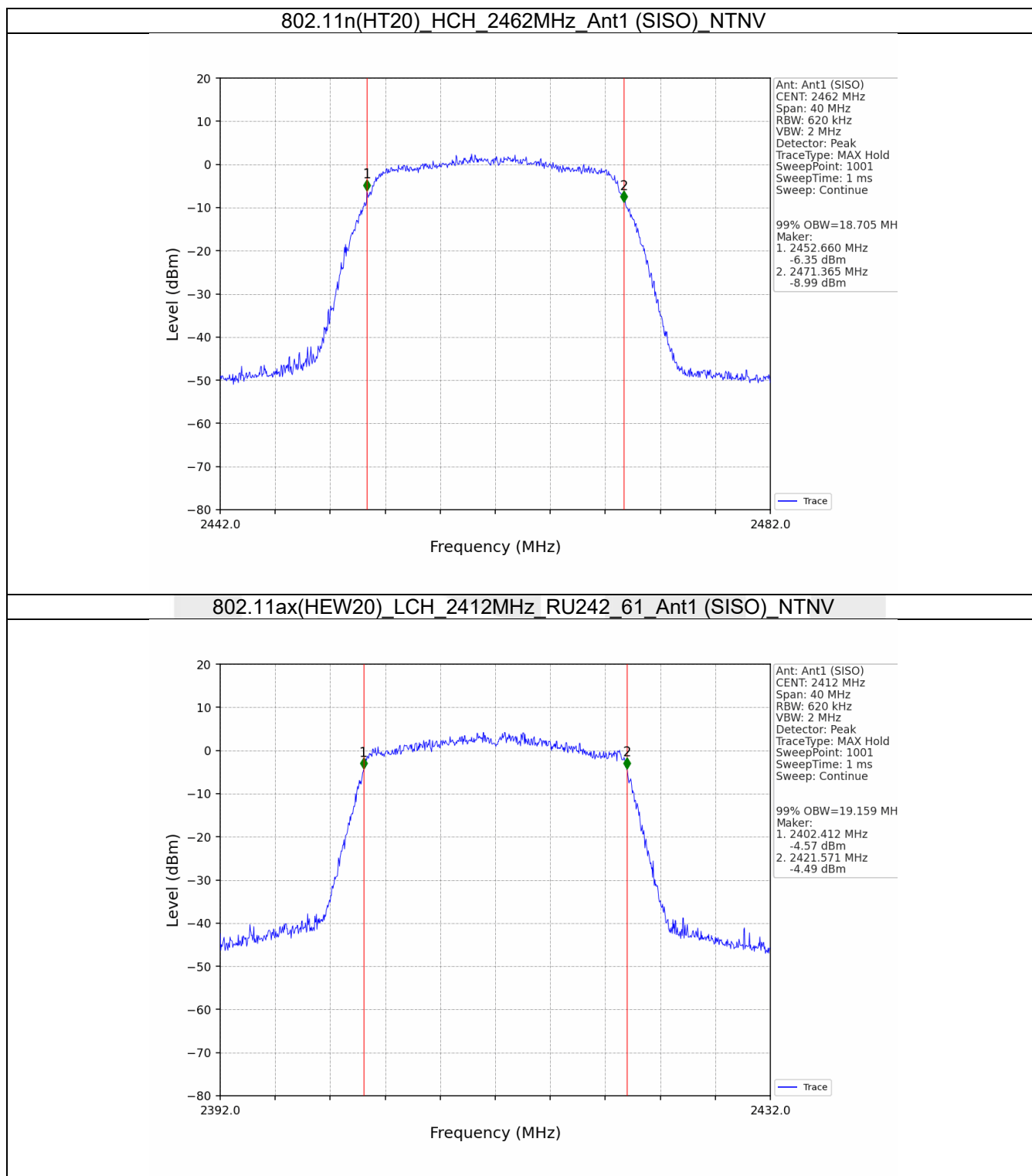
2.2.1 OBW

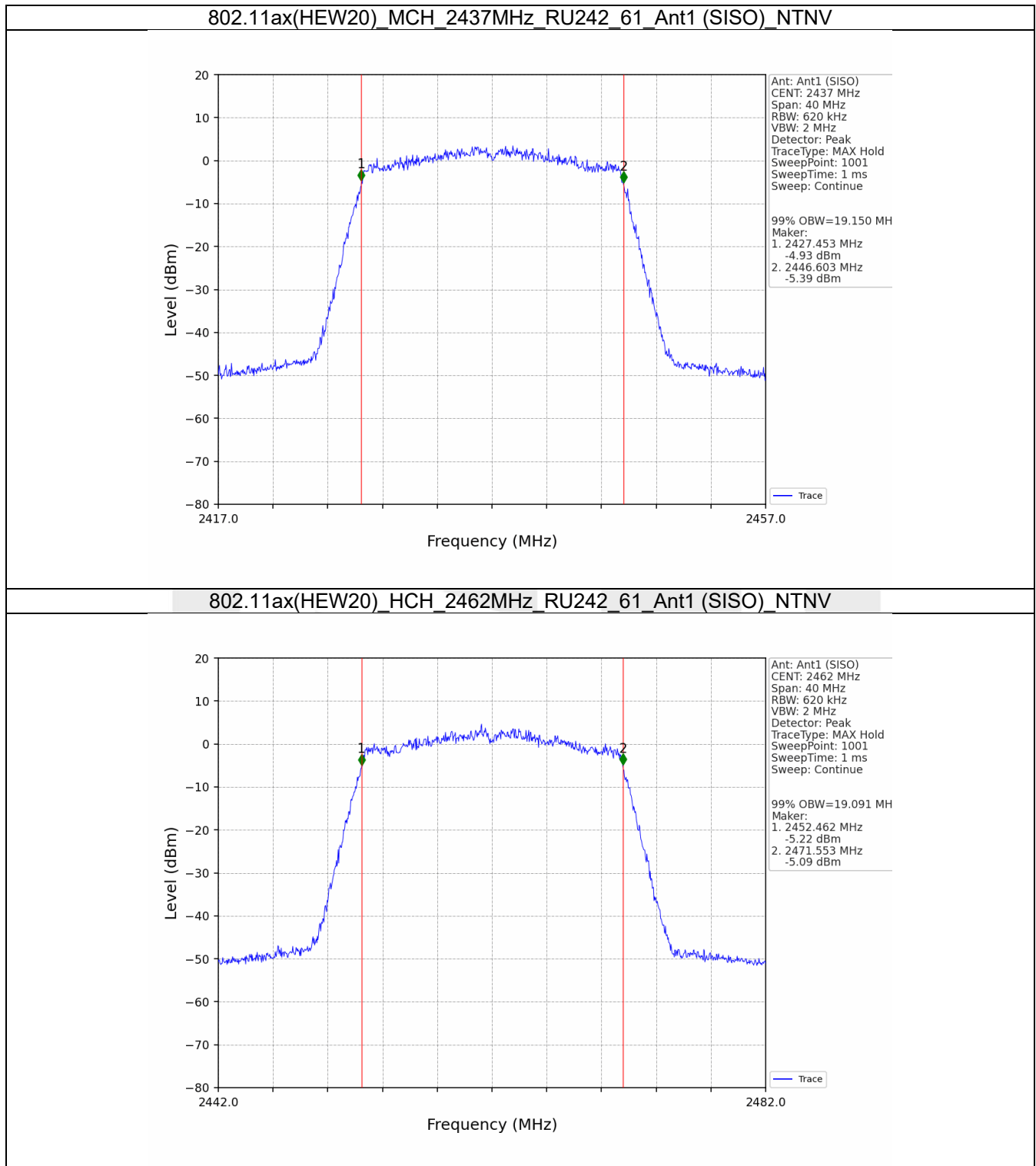




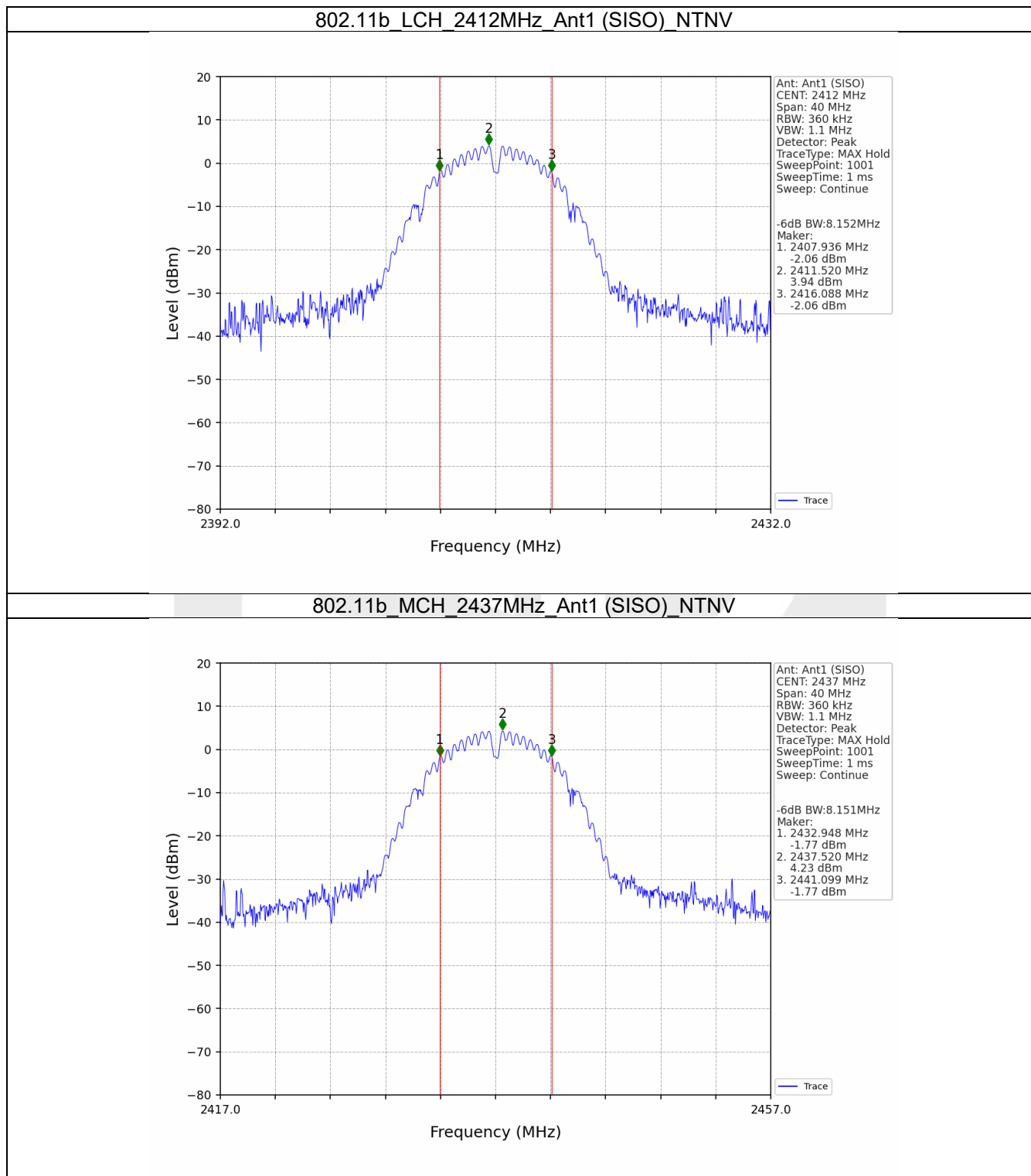


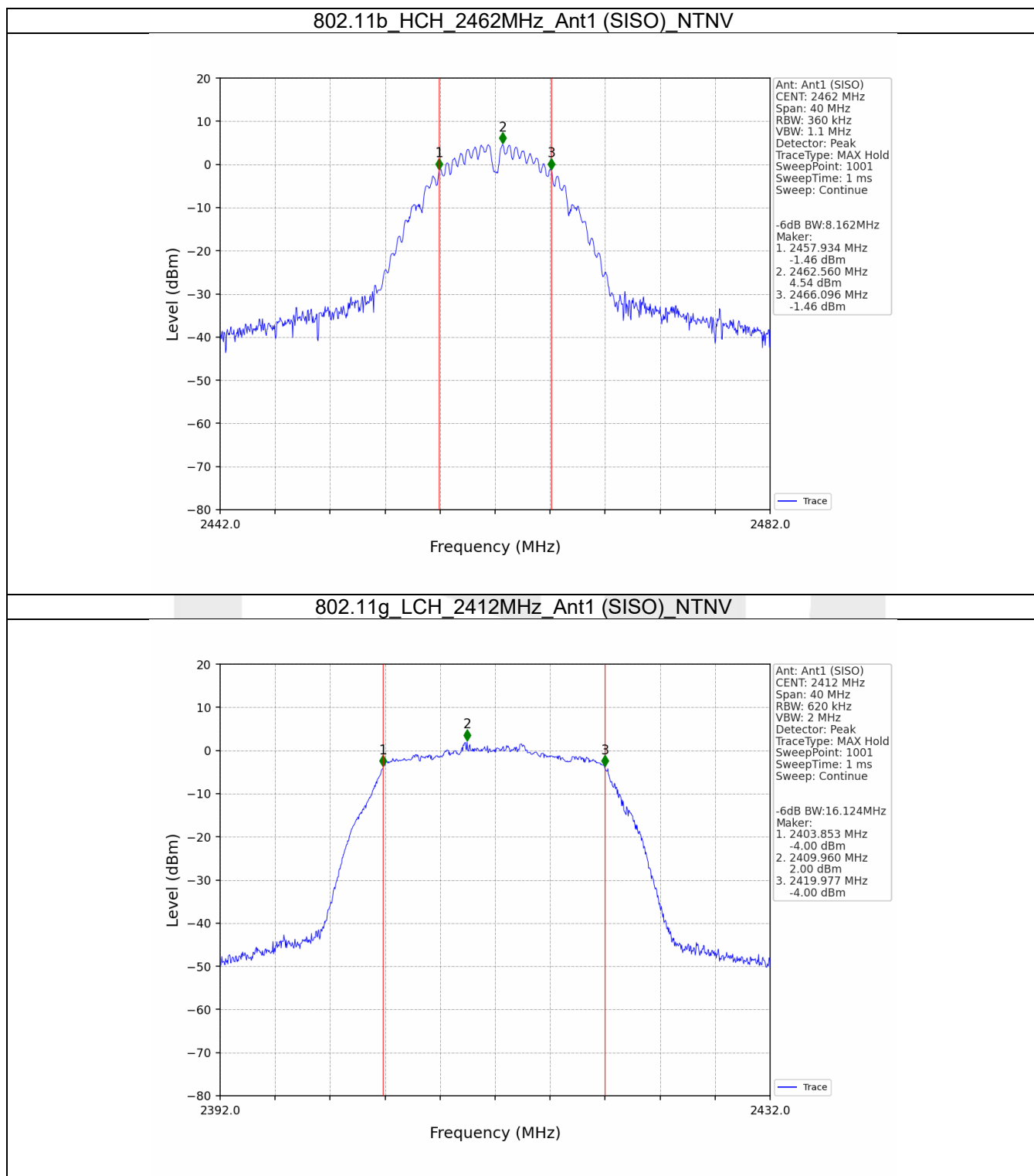


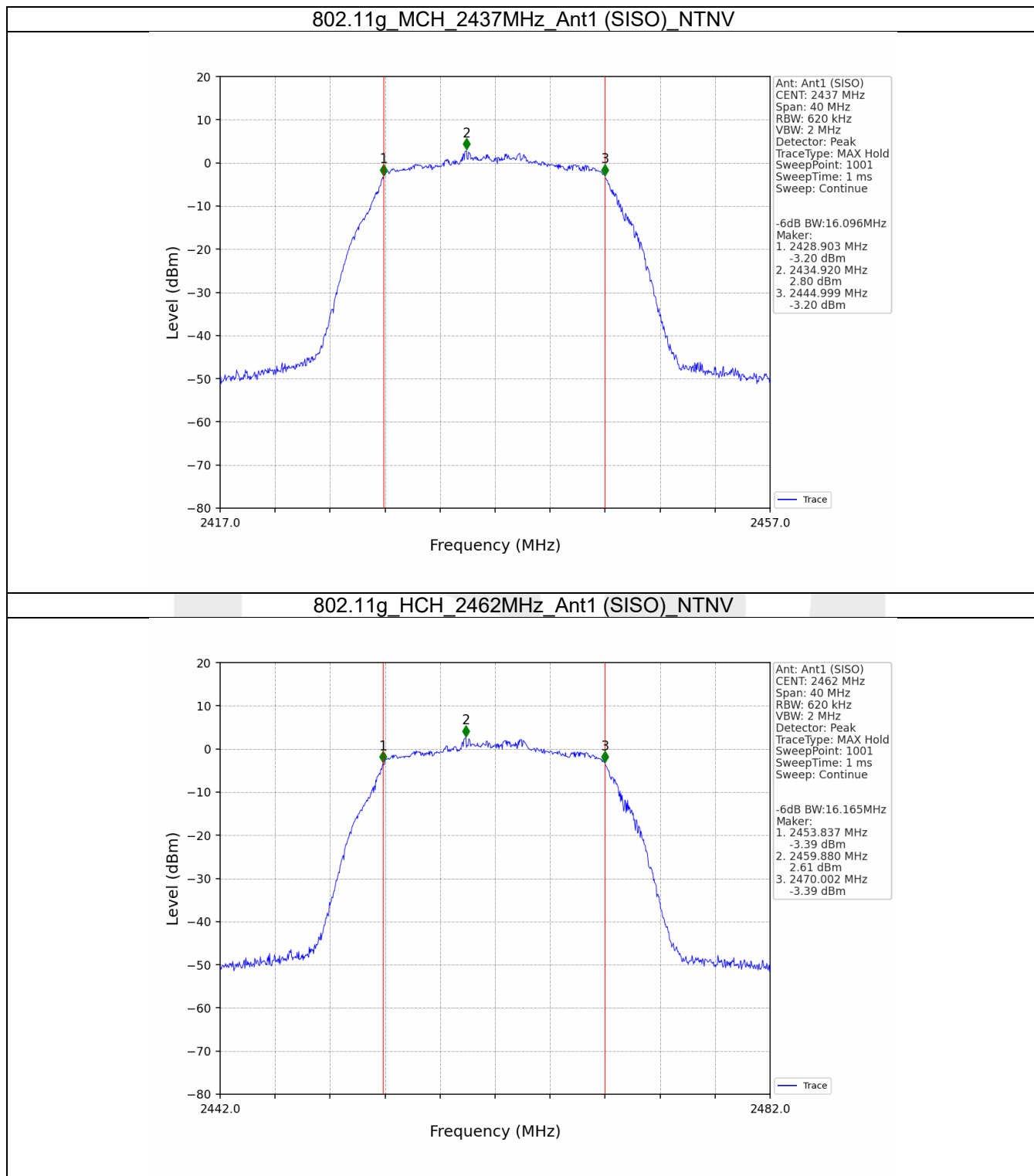


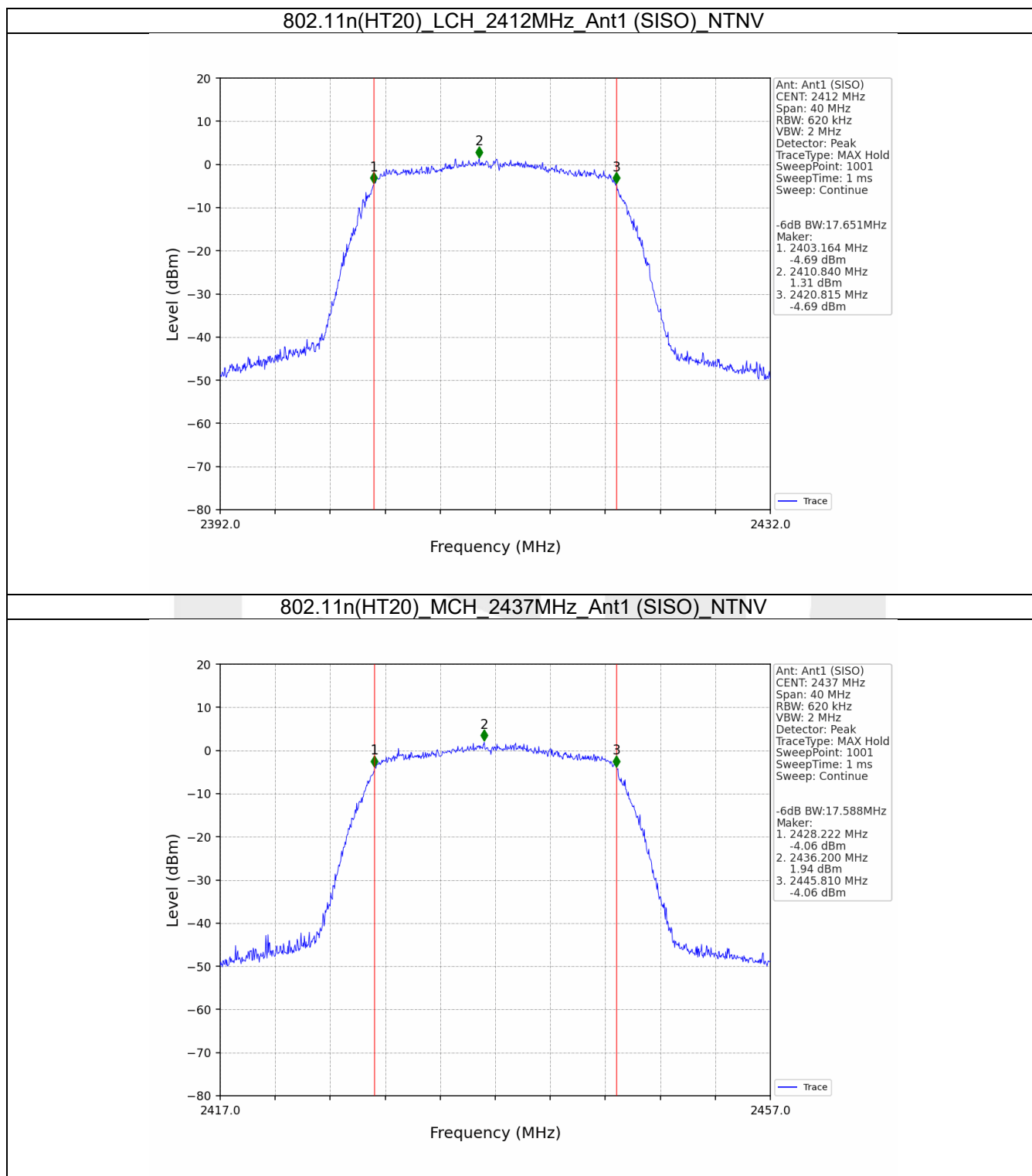


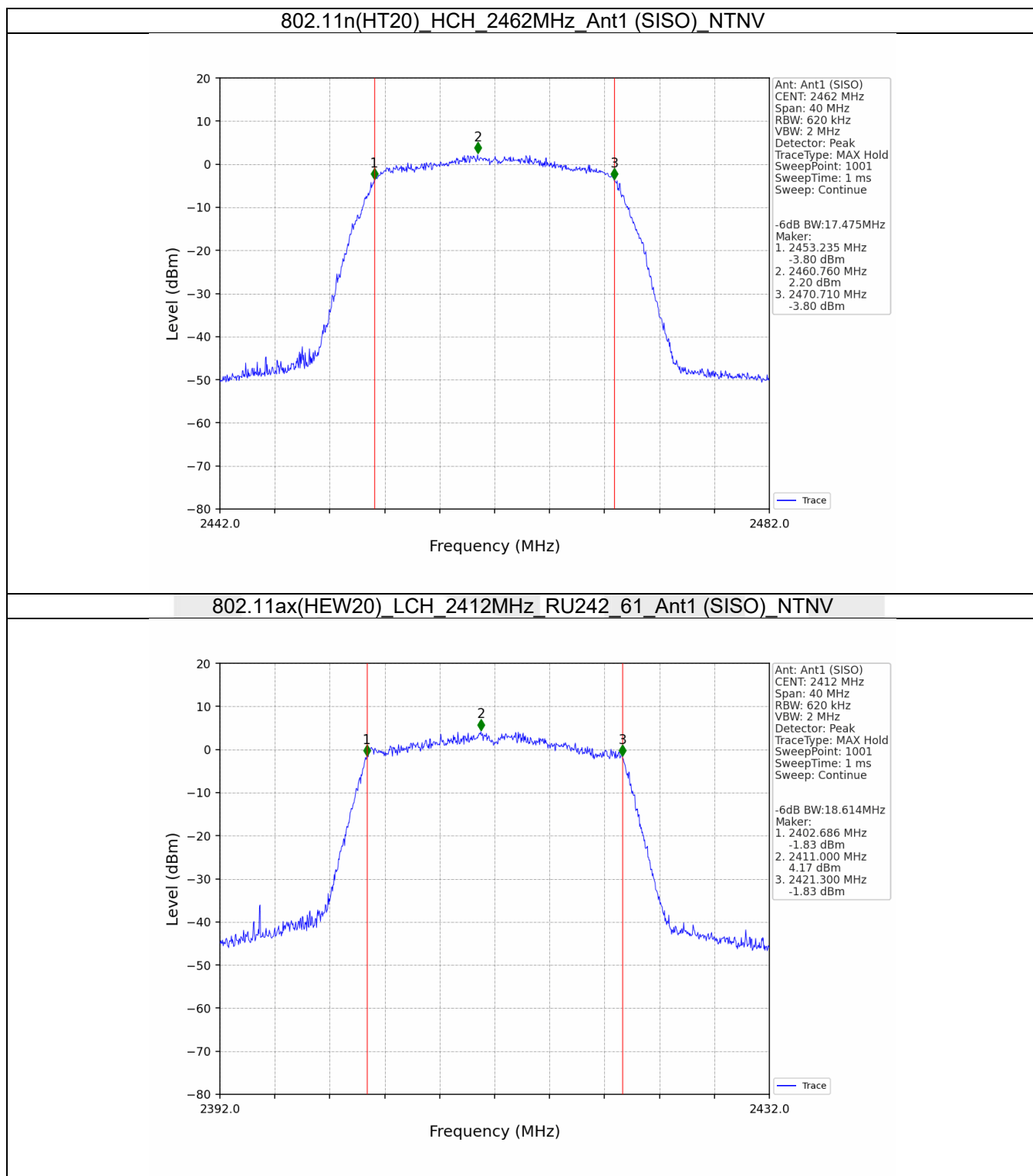
2.2.2 6dB BW



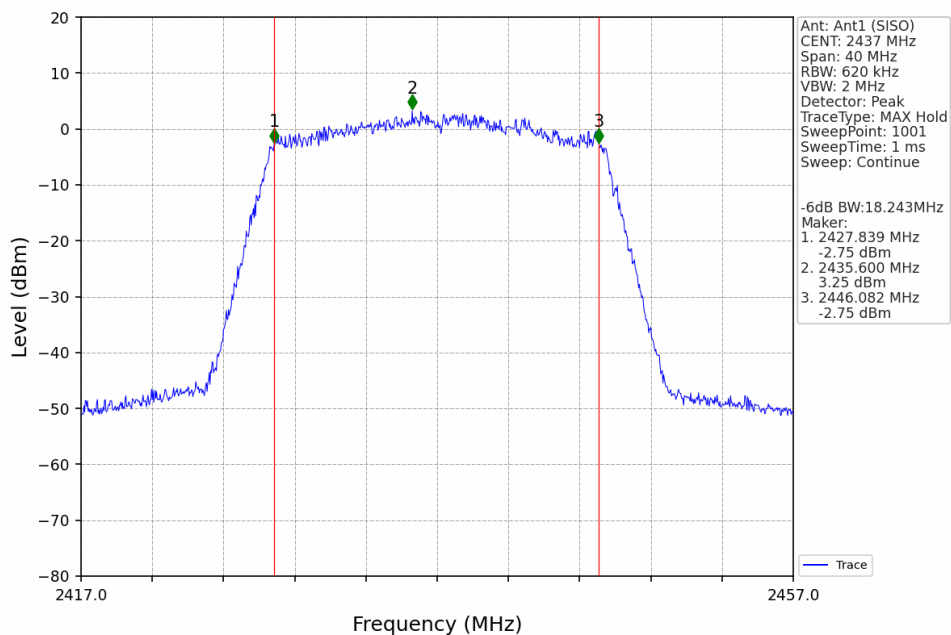




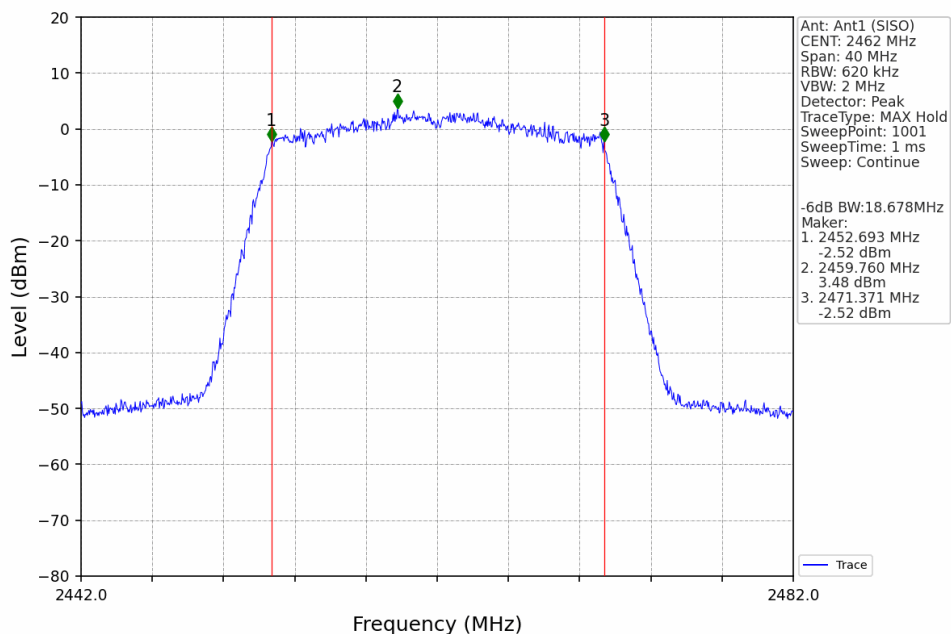




802.11ax(HEW20)_MCH_2437MHz_RU242_61_Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_RU242_61_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)			Verdict
					ANT1	ANT2	Limit	
802.11b	SISO	2412	/	/	13.85	15.58	<=30	Pass
		2437	/	/	14.16	15.60	<=30	Pass
		2462	/	/	14.09	15.40	<=30	Pass
802.11g	SISO	2412	/	/	13.68	15.97	<=30	Pass
		2437	/	/	14.47	16.27	<=30	Pass
		2462	/	/	14.37	15.73	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	13.77	15.70	<=30	Pass
		2437	/	/	13.96	15.93	<=30	Pass
		2462	/	/	14.42	15.72	<=30	Pass
802.11ax (HEW20)	SISO	2412	RU242	61	15.33	16.45	<=30	Pass
		2437	RU242	61	14.59	16.19	<=30	Pass
		2462	RU242	61	14.49	16.55	<=30	Pass

3.1.2 Power(MIMO)

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11g	SISO	2412	/	/	13.68	15.97	17.98	<=30	Pass
		2437	/	/	14.47	16.27	18.47	<=30	Pass
		2462	/	/	14.37	15.73	18.11	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	13.77	15.70	17.85	<=30	Pass
		2437	/	/	13.96	15.93	18.07	<=30	Pass
		2462	/	/	14.42	15.72	18.13	<=30	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	15.33	16.45	18.94	<=30	Pass
		2437	RU242	Left	14.59	16.19	18.47	<=30	Pass
		2462	RU242	Left	14.49	16.55	18.65	<=30	Pass

Note1: Antenna Gain: Ant1: 1.67dBi; Ant2: 1.96dBi;

Note2: Directional Gain: Correlated(Directional Gain = Ant Gain=4.83Bi)

Formulas: Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / NANT]$

dBi

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)			Verdict
					ANT1	ANT2	Limit	
802.11b	SISO	2412	/	/	-11.24	-8.93	<=8	Pass
		2437	/	/	-10.77	-9.44	<=8	Pass
		2462	/	/	-10.44	-9.75	<=8	Pass
802.11g	SISO	2412	/	/	-17.37	-16.33	<=8	Pass
		2437	/	/	-17.25	-15.98	<=8	Pass
		2462	/	/	-18.09	-15.42	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-18.57	-17.39	<=8	Pass
		2437	/	/	-18.30	-16.67	<=8	Pass
		2462	/	/	-18.37	-17.02	<=8	Pass
802.11ax (HEW20)	SISO	2412	RU242	61	-19.31	-18.42	<=8	Pass
		2437	RU242	61	-20.23	-17.74	<=8	Pass
		2462	RU242	61	-20.36	-18.75	<=8	Pass

4.1.1 PSD(MIMO)

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11g	SISO	2412	/	/	-17.37	-16.33	-13.81	<=8	Pass
		2437	/	/	-17.25	-15.98	-13.56	<=8	Pass
		2462	/	/	-18.09	-15.42	-13.54	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-18.57	-17.39	-14.93	<=8	Pass
		2437	/	/	-18.30	-16.67	-14.40	<=8	Pass
		2462	/	/	-18.37	-17.02	-14.63	<=8	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	-19.31	-18.42	-15.83	<=8	Pass
		2437	RU242	Left	-20.23	-17.74	-15.80	<=8	Pass
		2462	RU242	Left	-20.36	-18.75	-16.47	<=8	Pass

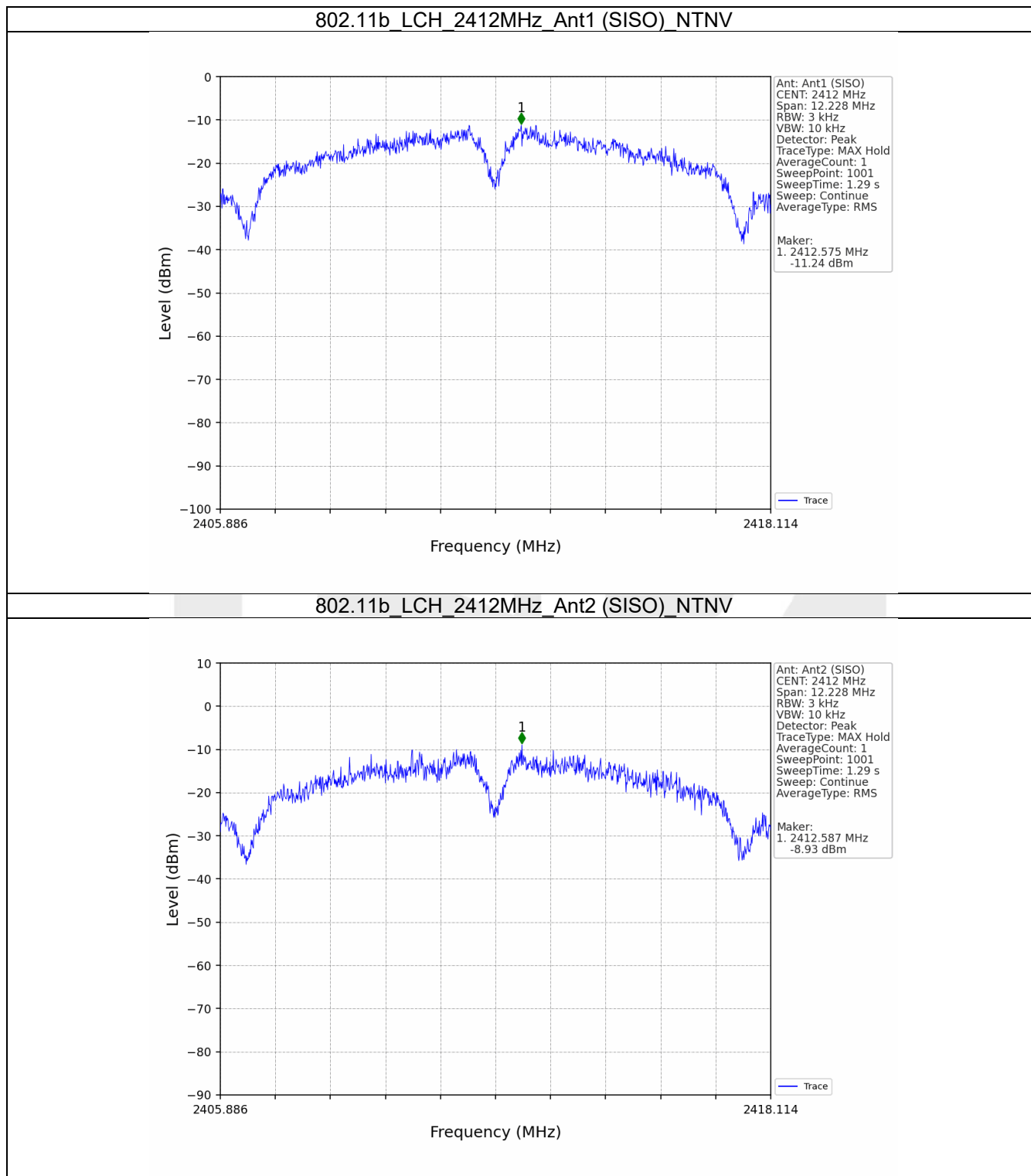
Note1: Antenna Gain: Ant1: 1.67dBi; Ant2: 1.96dBi;

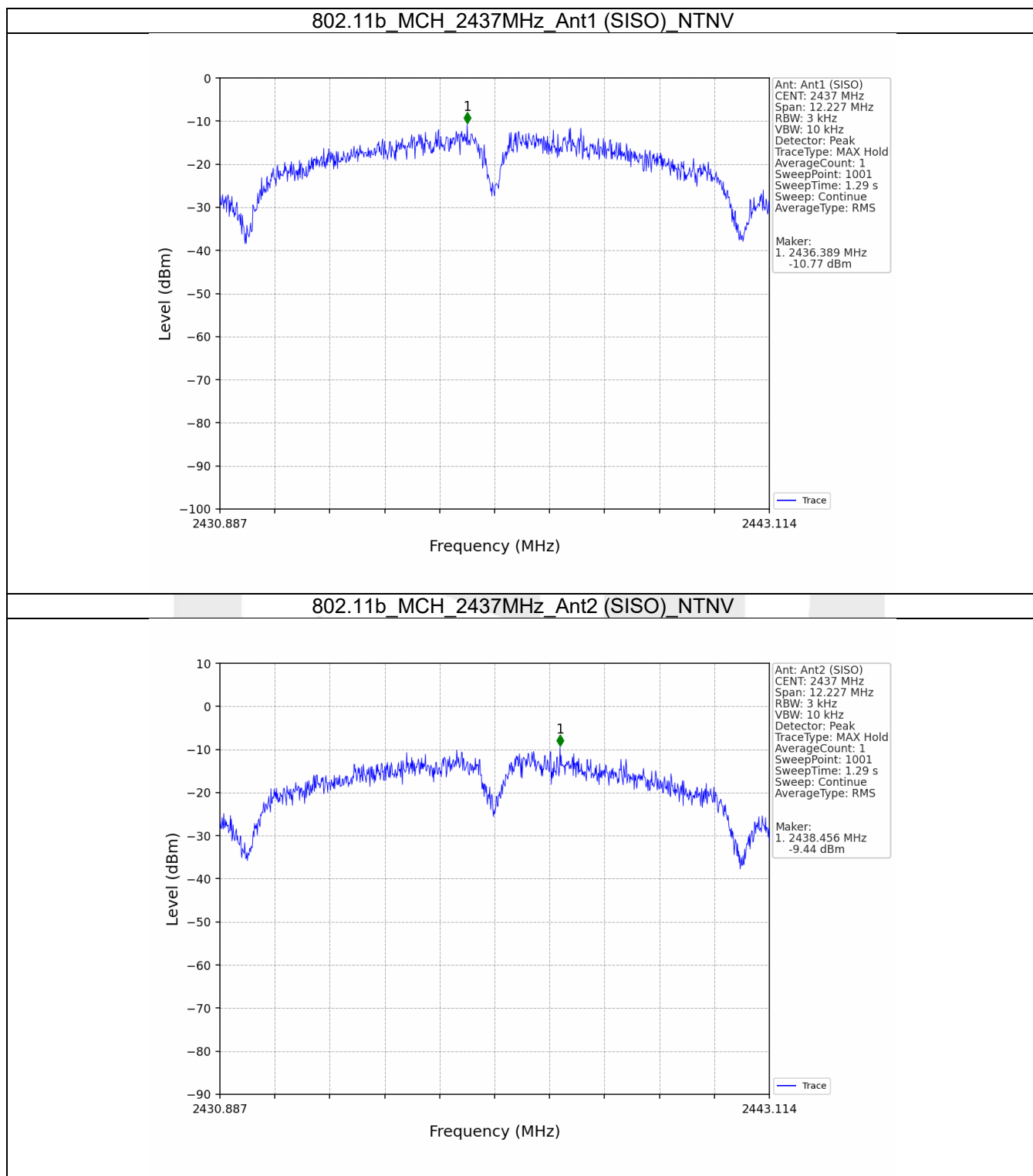
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain=1.82dBi)

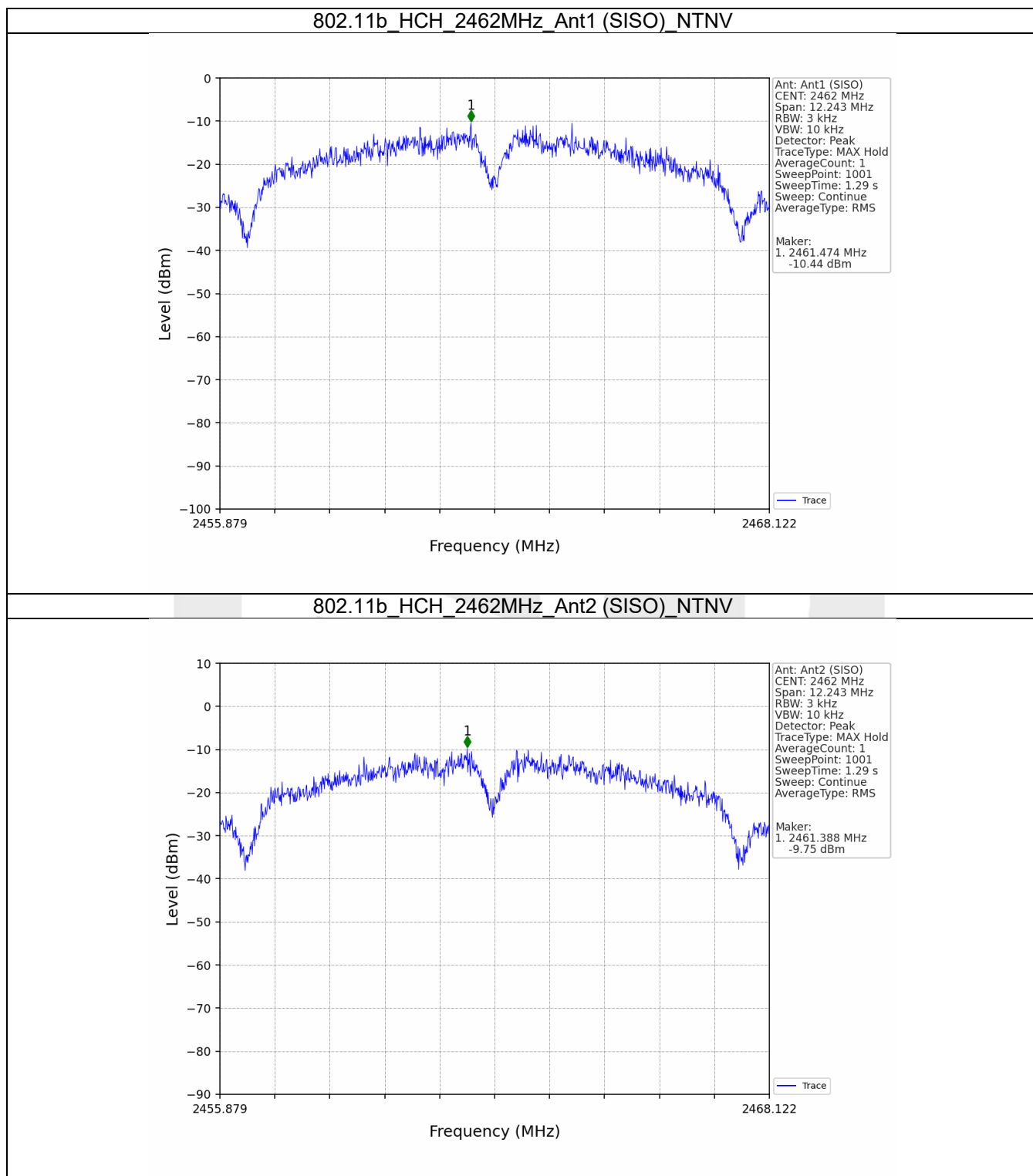
Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi

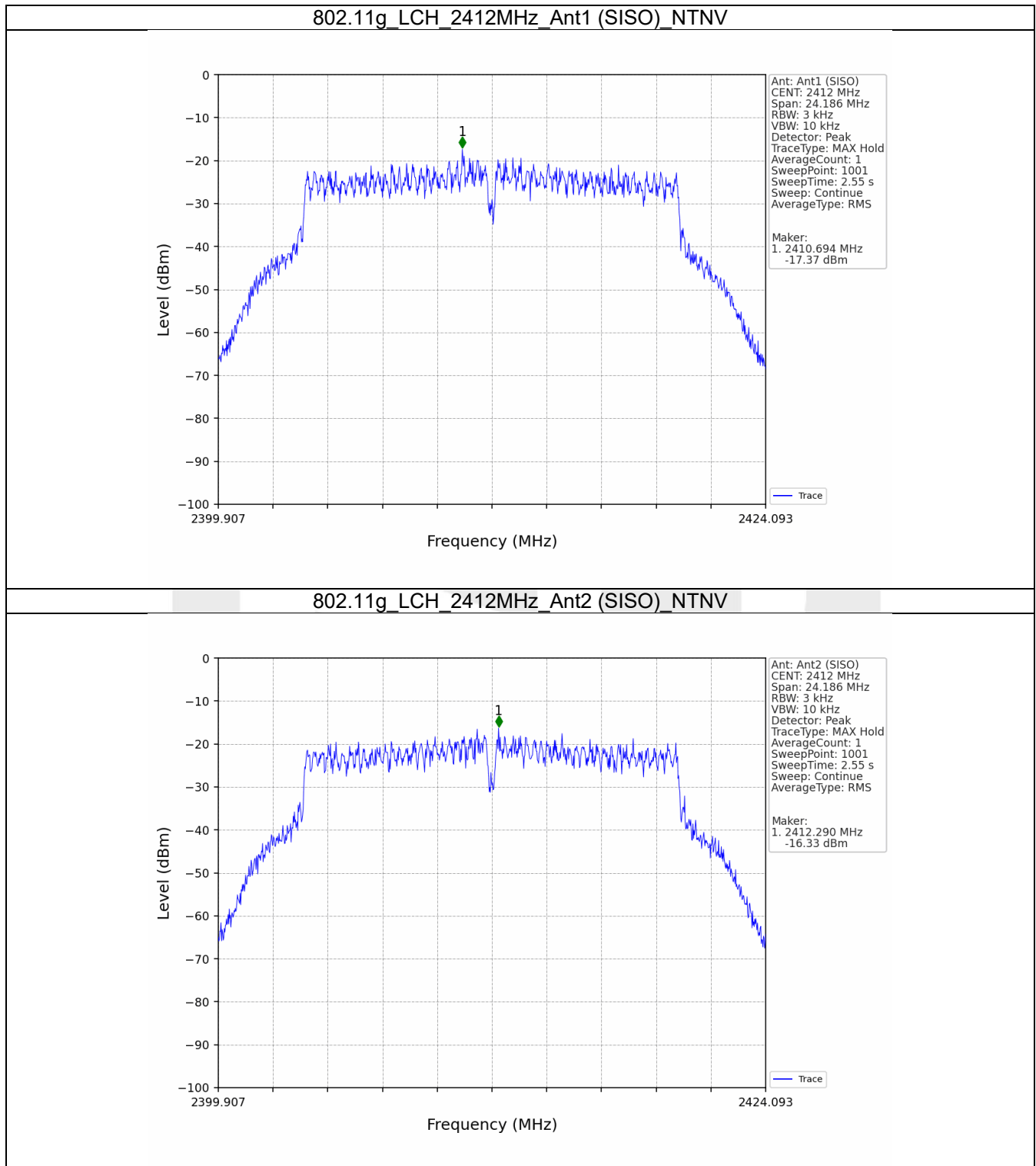
4.2 Test Graph

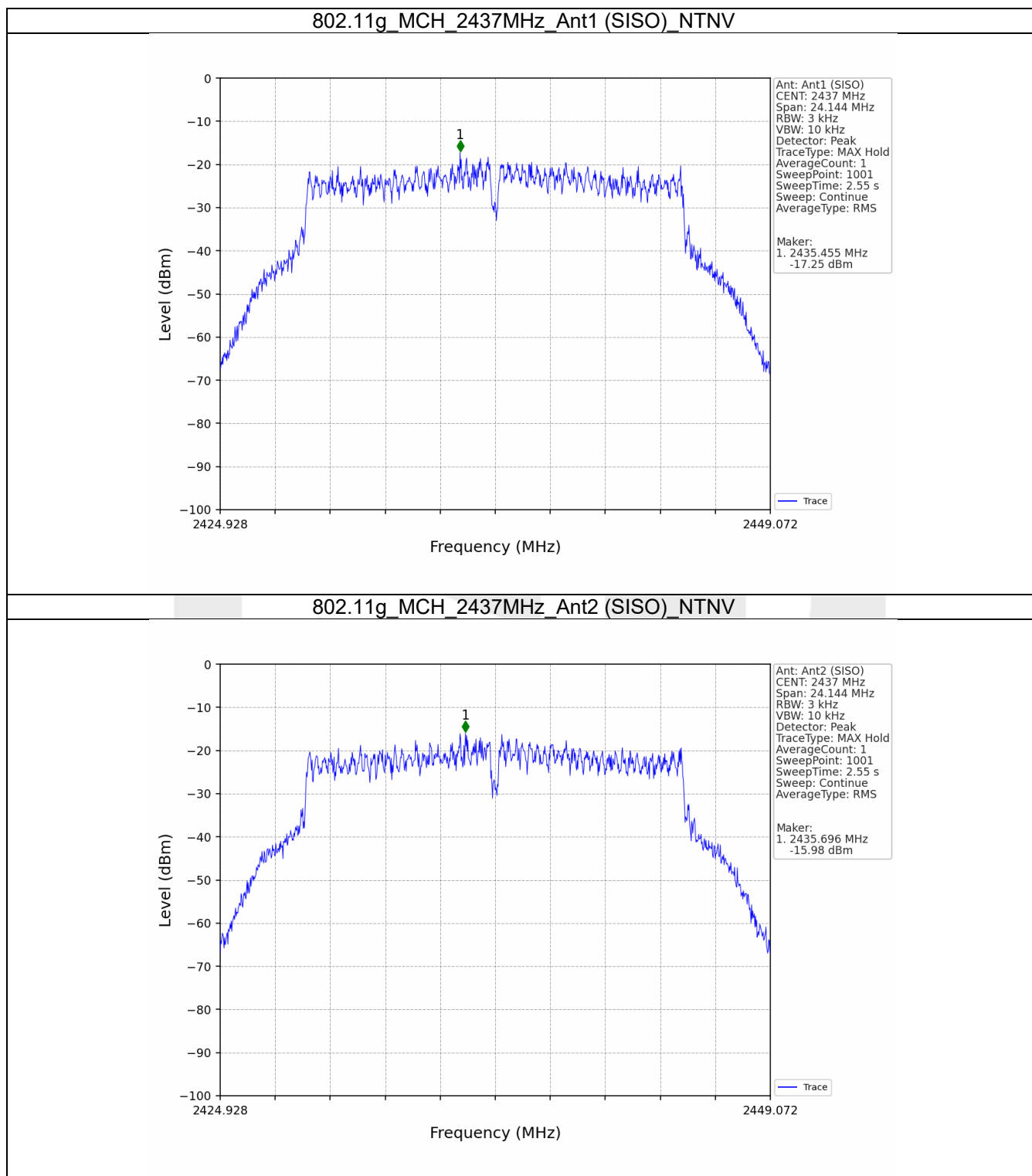
4.2.1 PSD

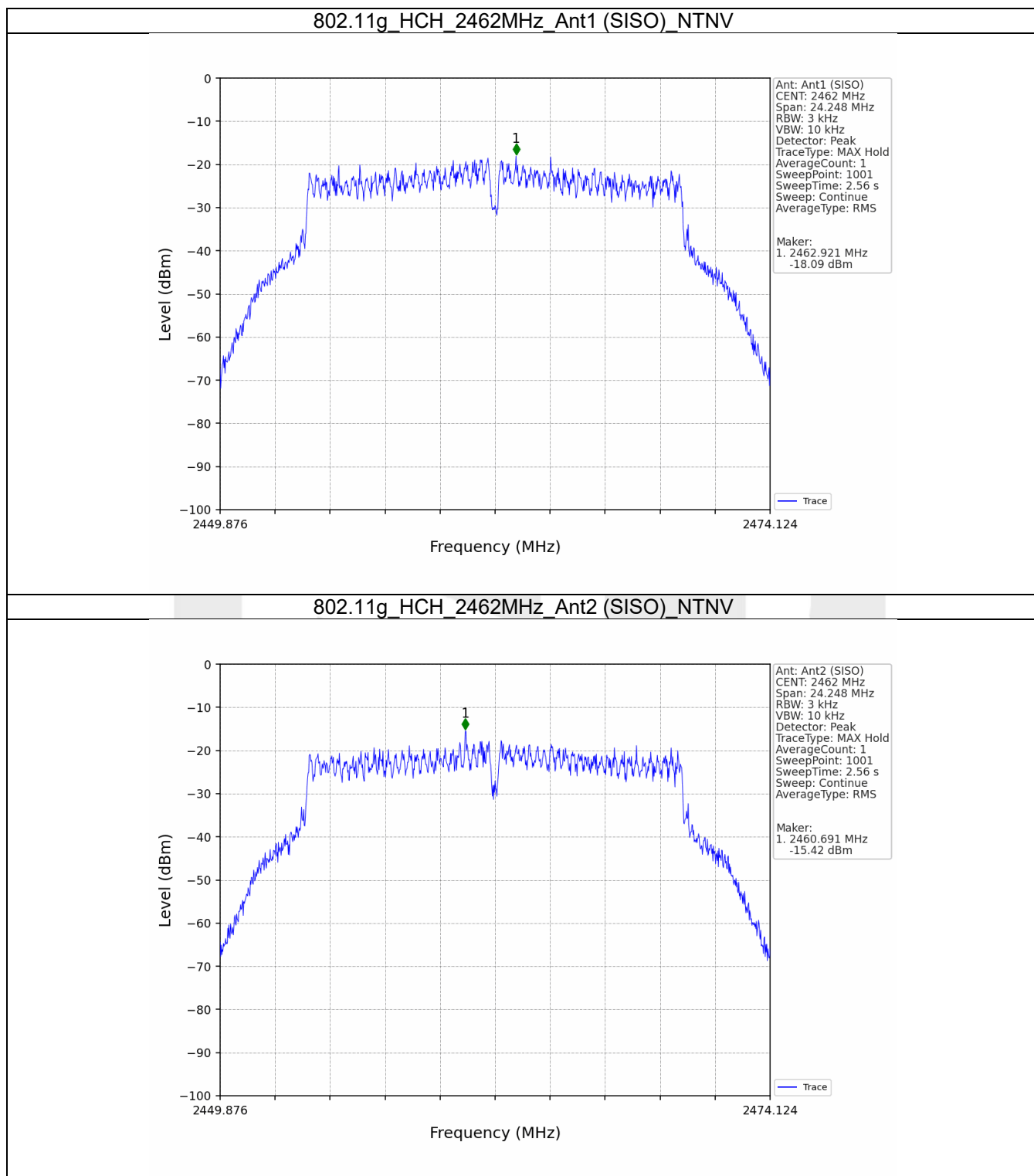


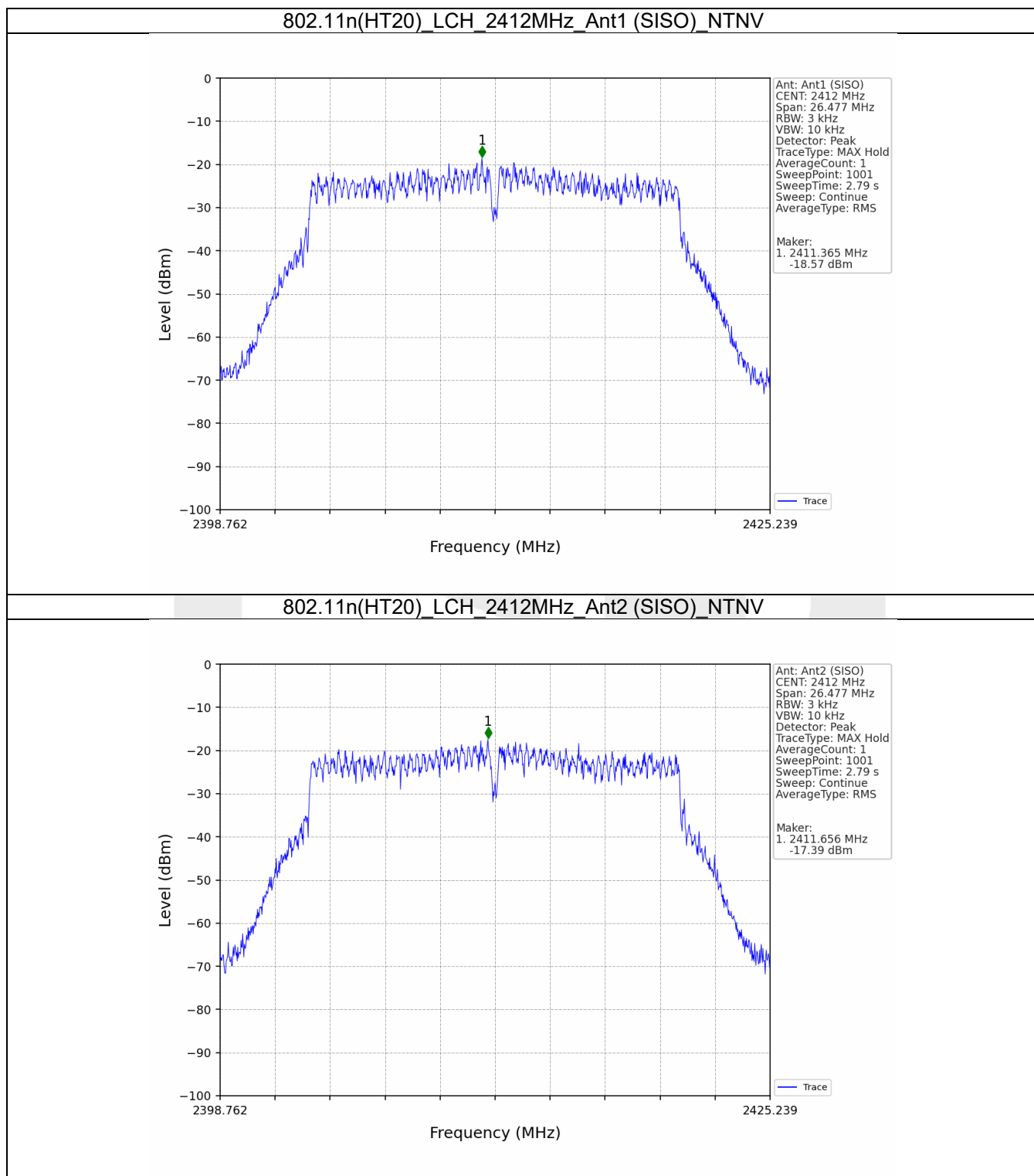


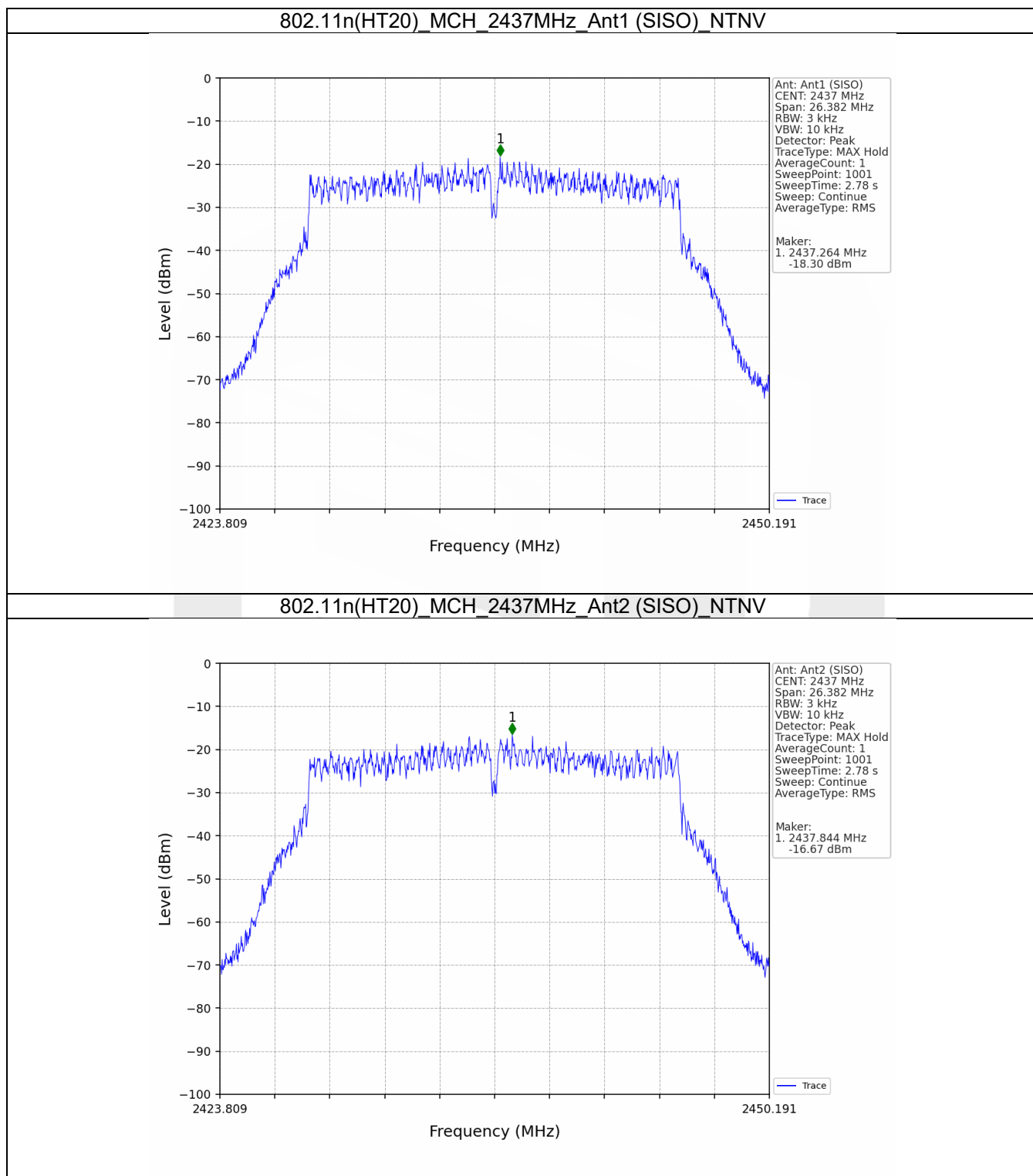


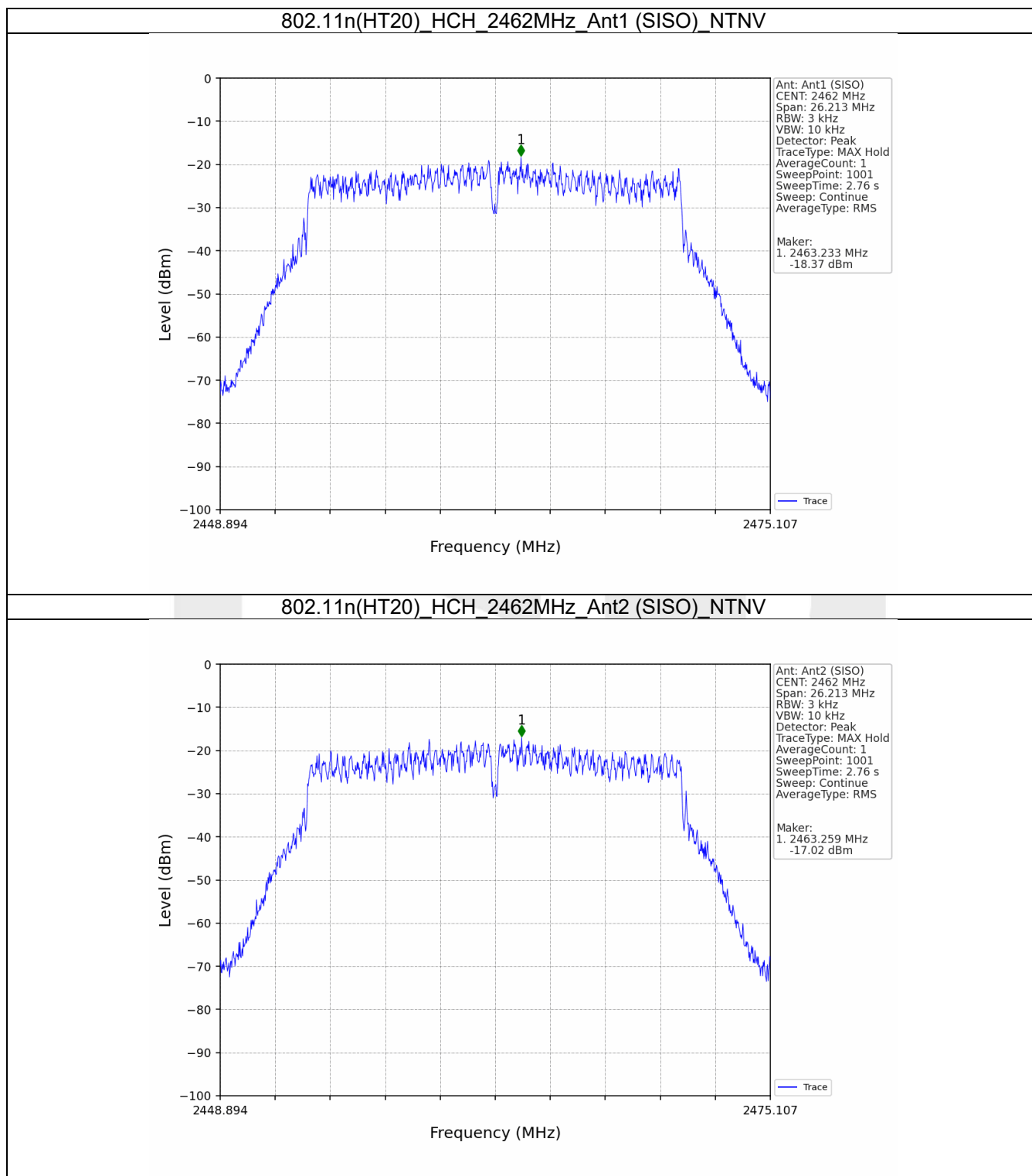


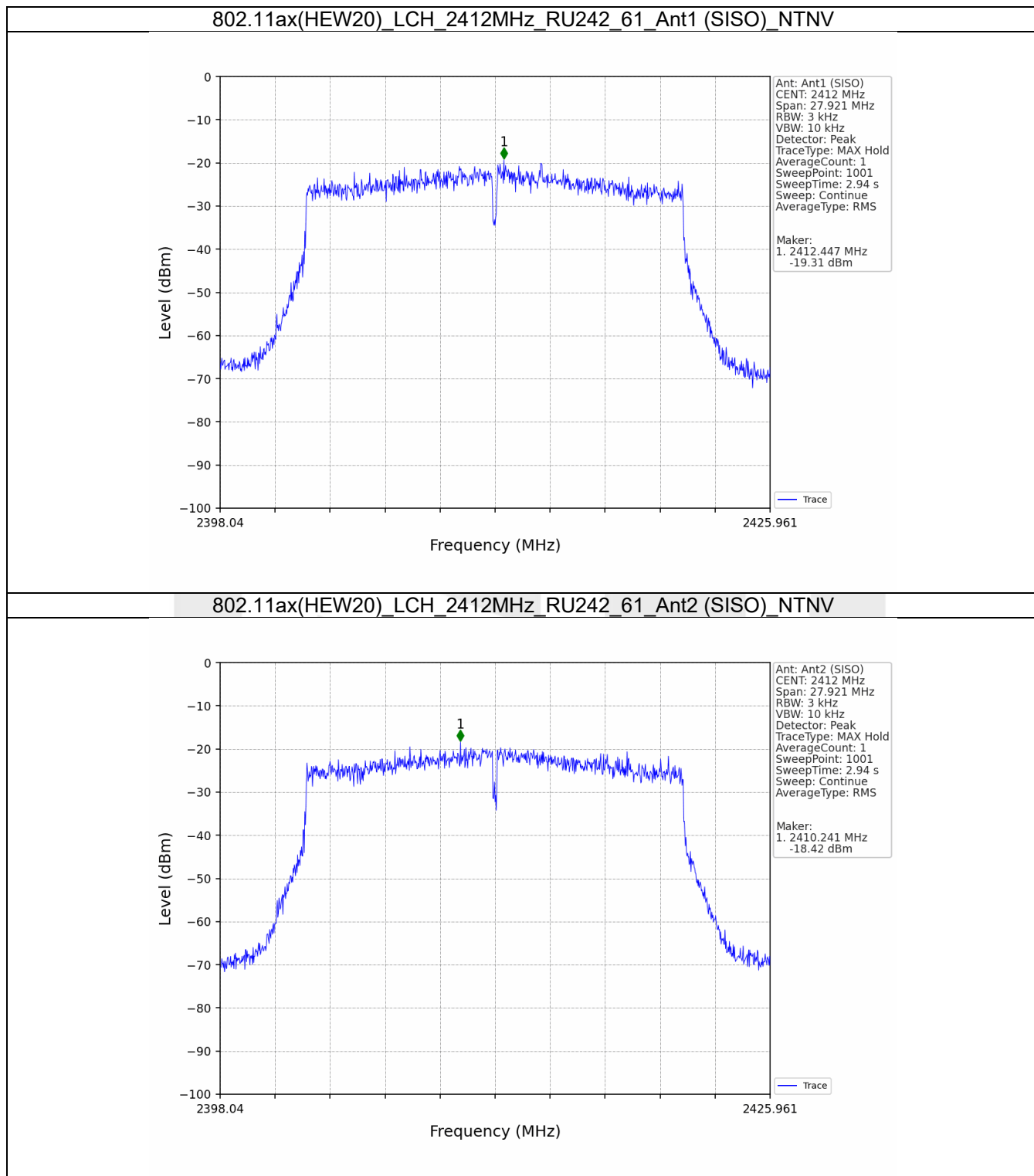


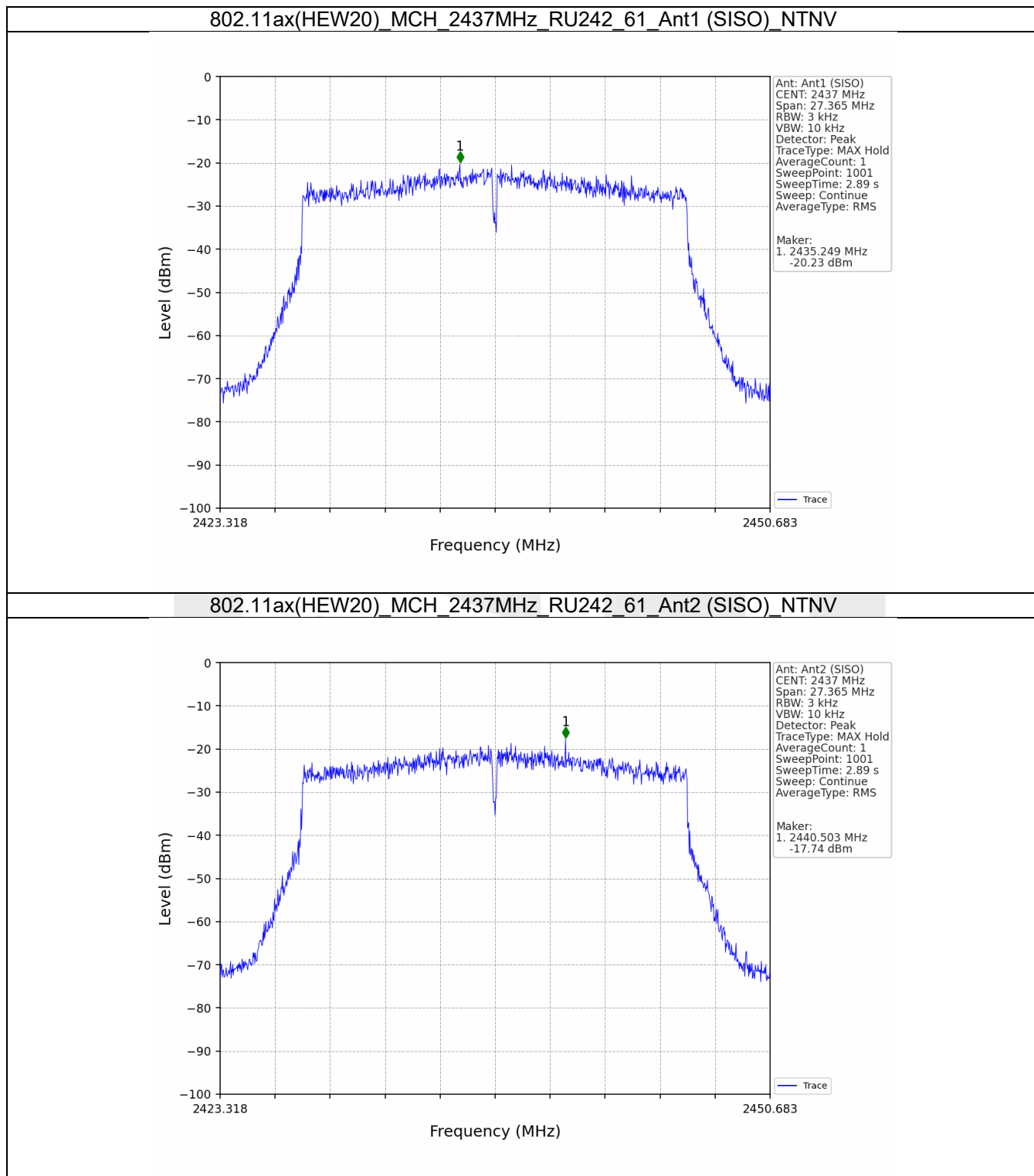


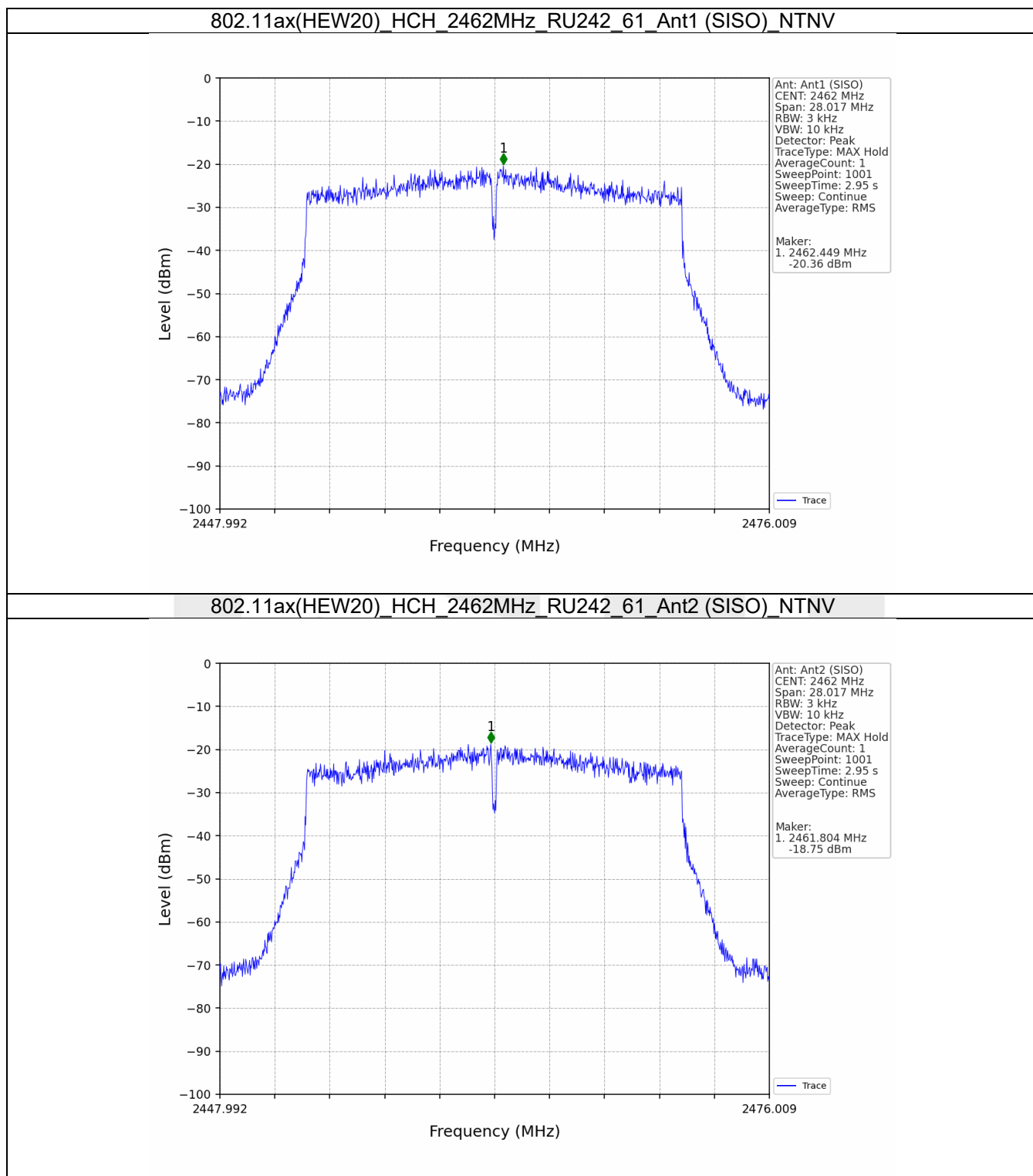












5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

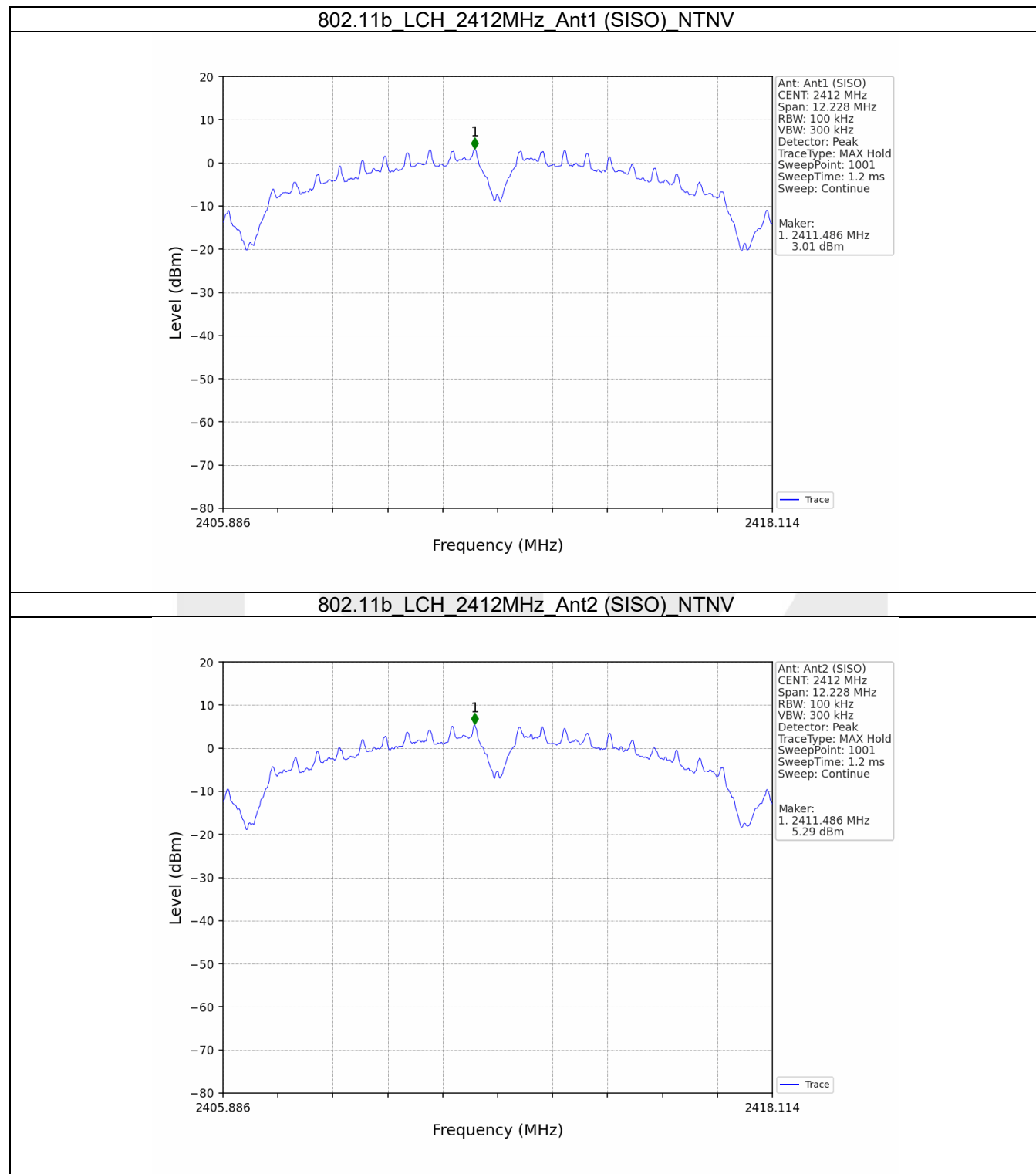
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	3.01
					2	5.29
		2437	/	/	1	3.84
					2	5.33
		2462	/	/	1	3.59
					2	5.00
802.11g	SISO	2412	/	/	1	-6.10
					2	-3.80
		2437	/	/	1	-5.33
					2	-3.41
		2462	/	/	1	-5.32
					2	-3.94
802.11n (HT20)	SISO	2412	/	/	1	-6.01
					2	-4.07
		2437	/	/	1	-5.70
					2	-3.72
		2462	/	/	1	-5.26
					2	-3.83
802.11ax (HEW20)	SISO	2412	RU242	61	1	-5.26
					2	-4.22
		2437	RU242	61	1	-6.55
					2	-4.80
		2462	RU242	61	1	-6.41
					2	-4.16
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.						

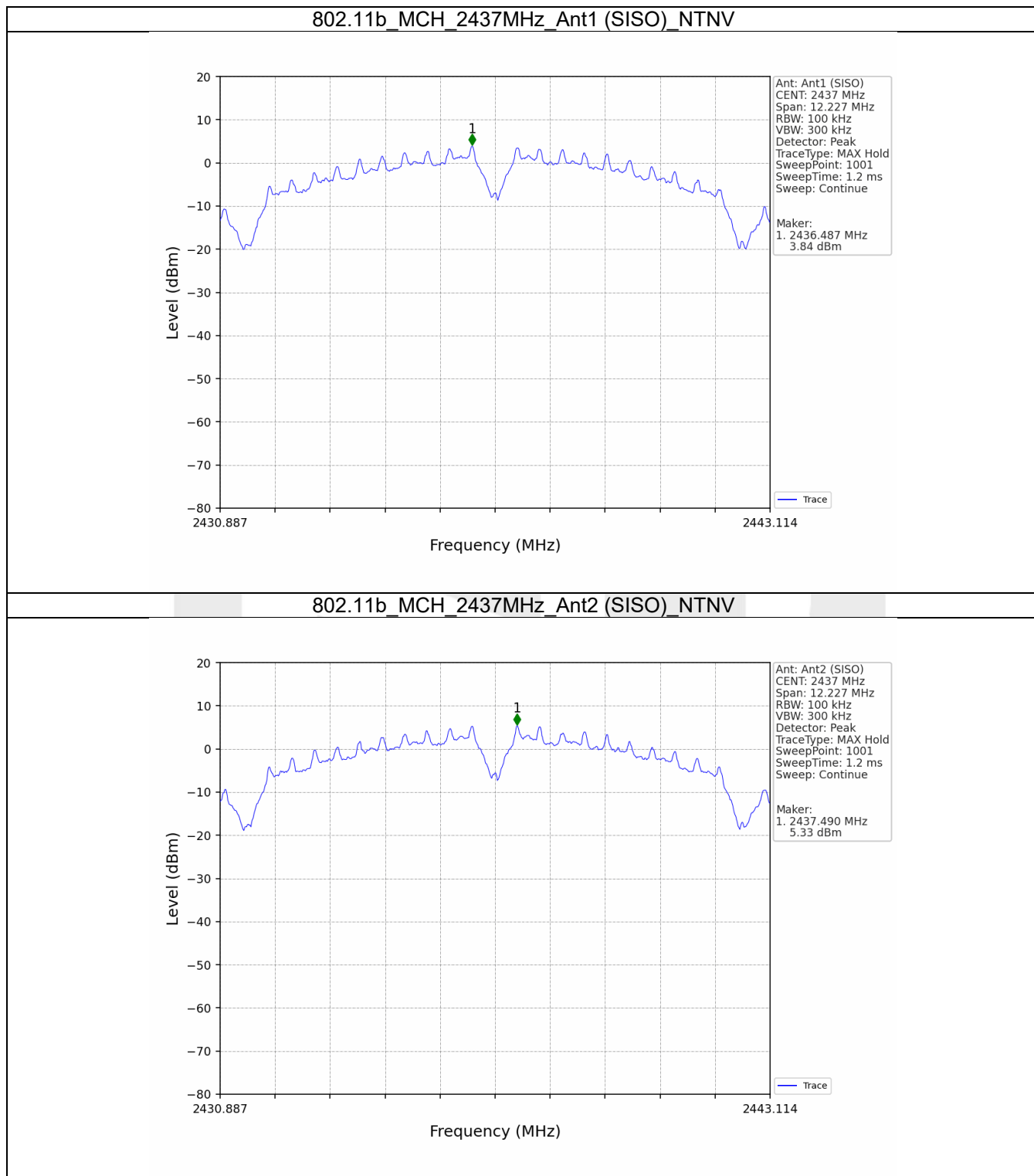
5.1.2 CSE

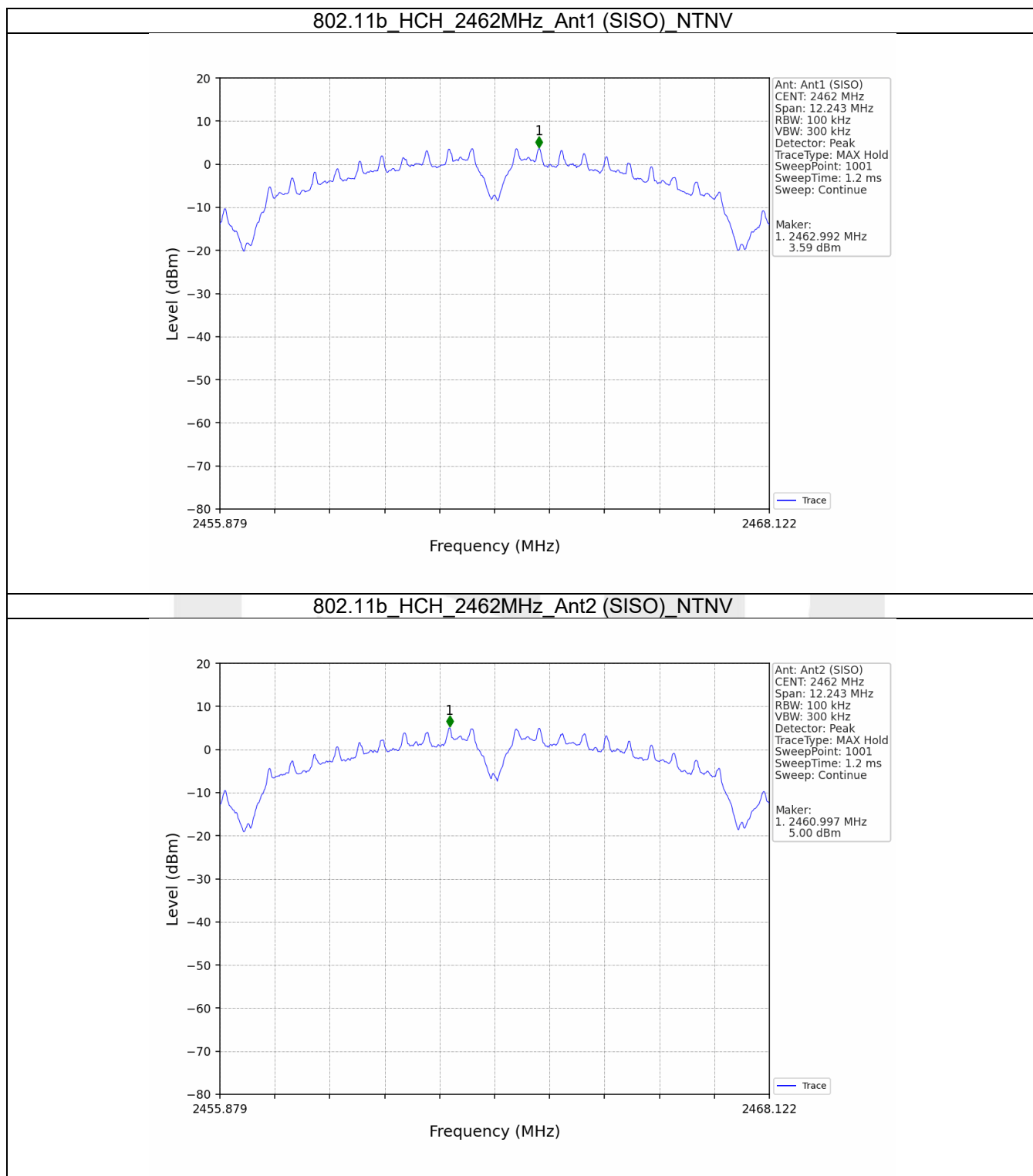
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	3.01	-16.99	Pass
					2	5.29	-14.71	Pass
		2437	/	/	1	3.84	-16.16	Pass
					2	5.33	-14.67	Pass
		2462	/	/	1	3.59	-16.41	Pass
					2	5.00	-15.00	Pass
802.11g	SISO	2412	/	/	1	-6.10	-26.10	Pass
					2	-3.80	-23.80	Pass
		2437	/	/	1	-5.33	-25.33	Pass
					2	-3.41	-23.41	Pass
		2462	/	/	1	-5.32	-25.32	Pass
					2	-3.94	-23.94	Pass
802.11n (HT20)	SISO	2412	/	/	1	-6.01	-26.01	Pass
					2	-4.07	-24.07	Pass
		2437	/	/	1	-5.70	-25.70	Pass
					2	-3.72	-23.72	Pass
		2462	/	/	1	-5.26	-25.26	Pass
					2	-3.83	-23.83	Pass
802.11ax (HEW20)	SISO	2412	RU242	61	1	-5.26	-25.26	Pass
					2	-4.22	-24.22	Pass
		2437	RU242	61	1	-6.55	-26.55	Pass
					2	-4.80	-24.80	Pass
		2462	RU242	61	1	-6.41	-26.41	Pass
					2	-4.16	-24.16	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.								

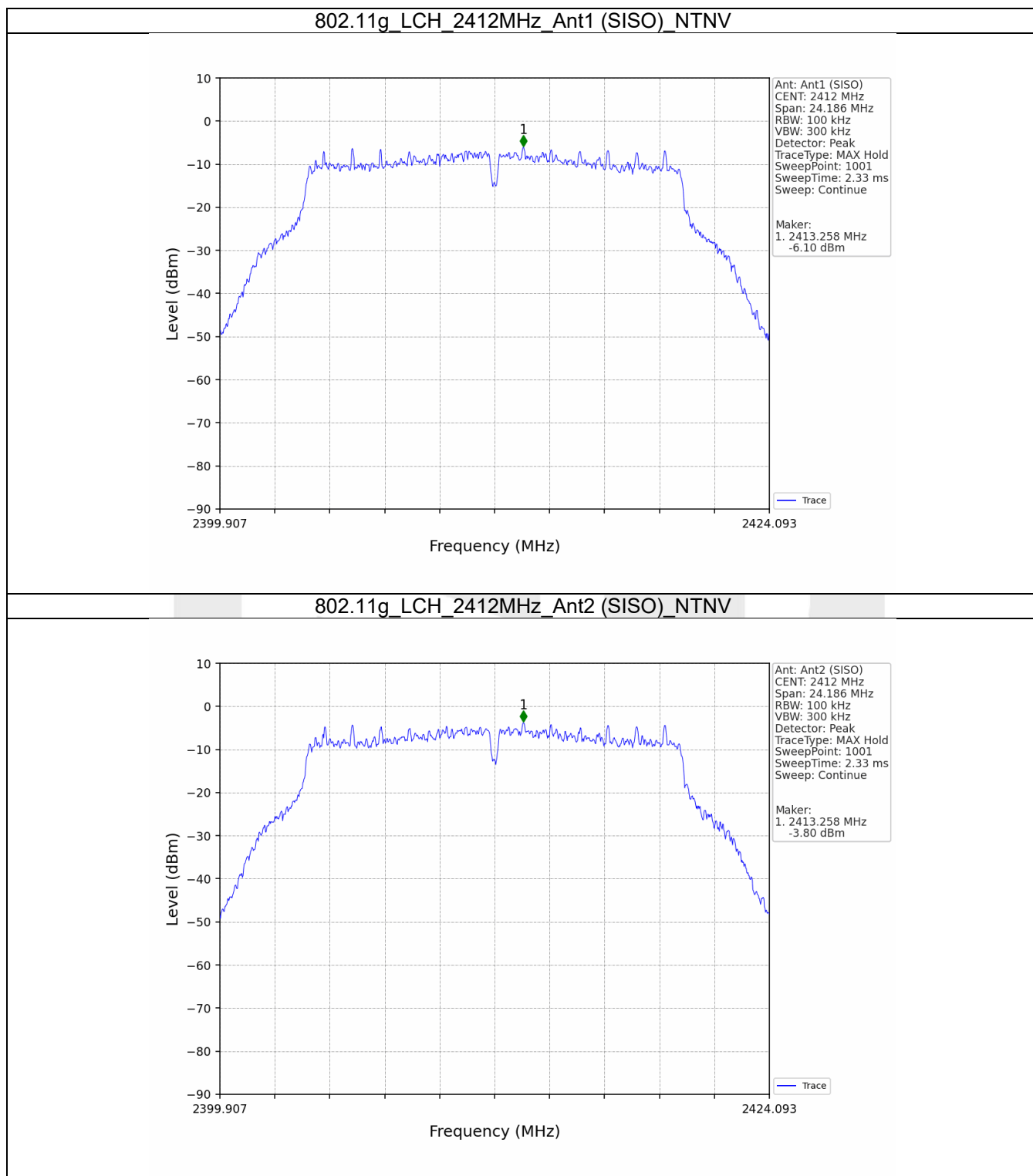
5.2 Test Graph

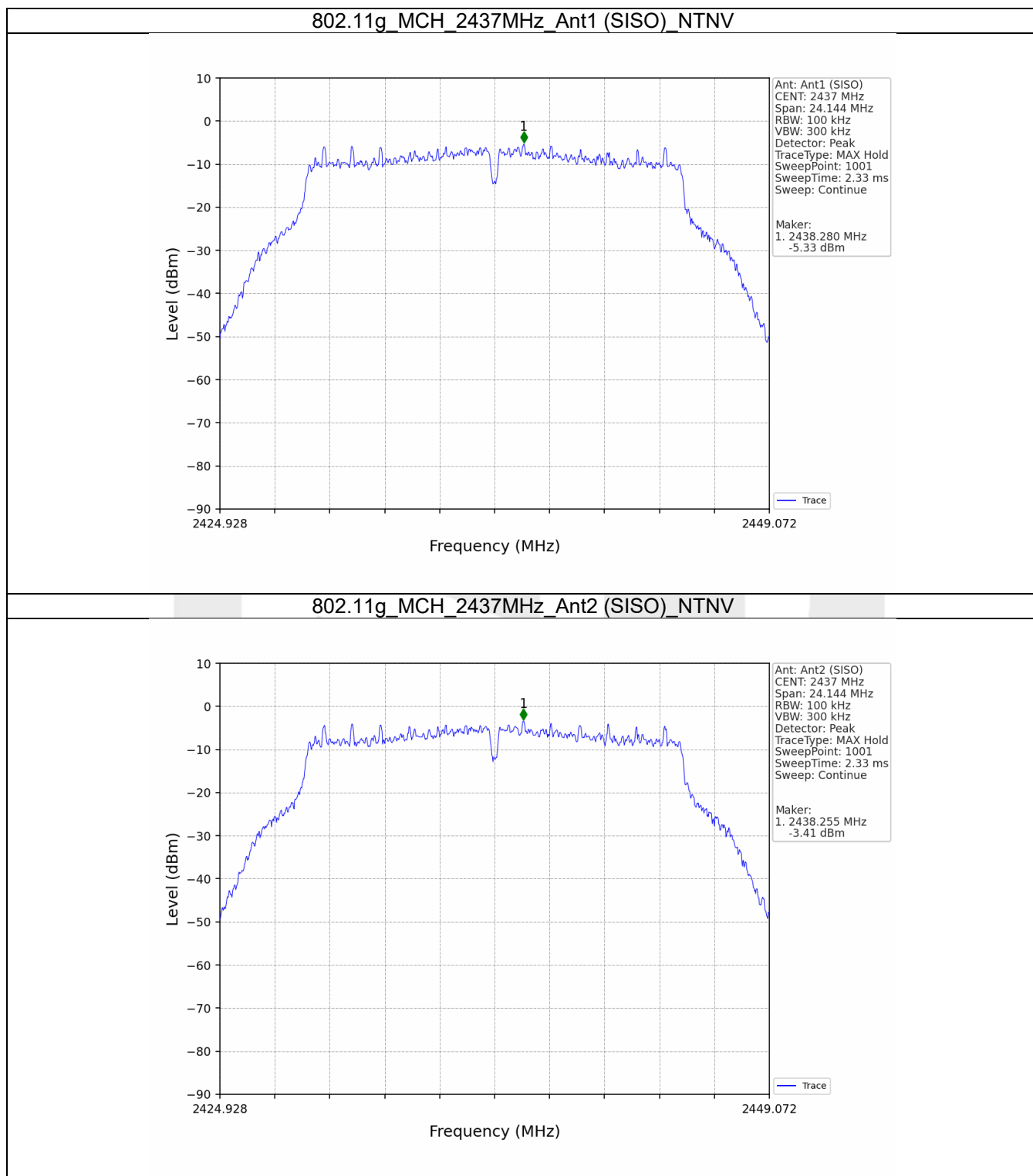
5.2.1 Ref

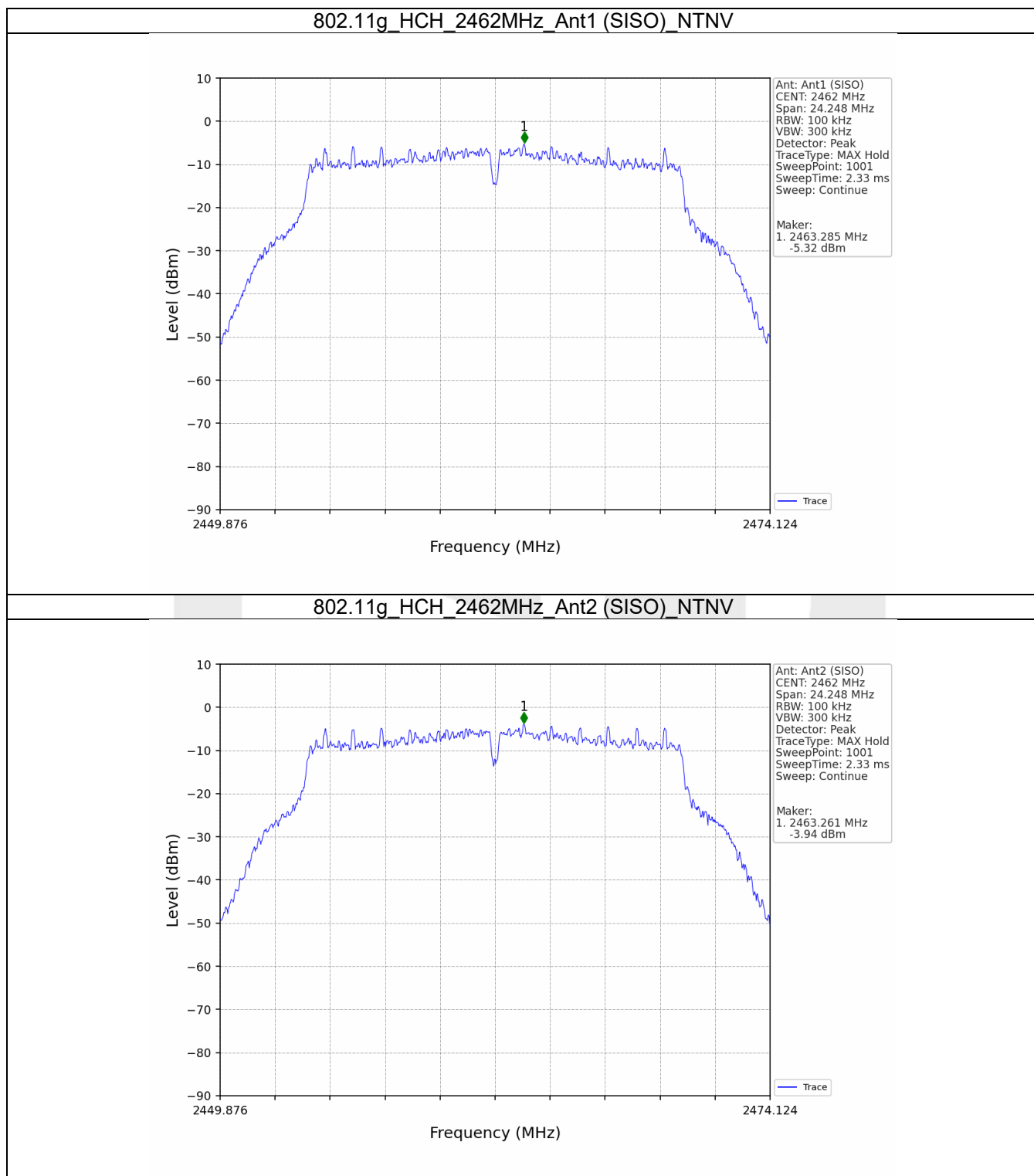


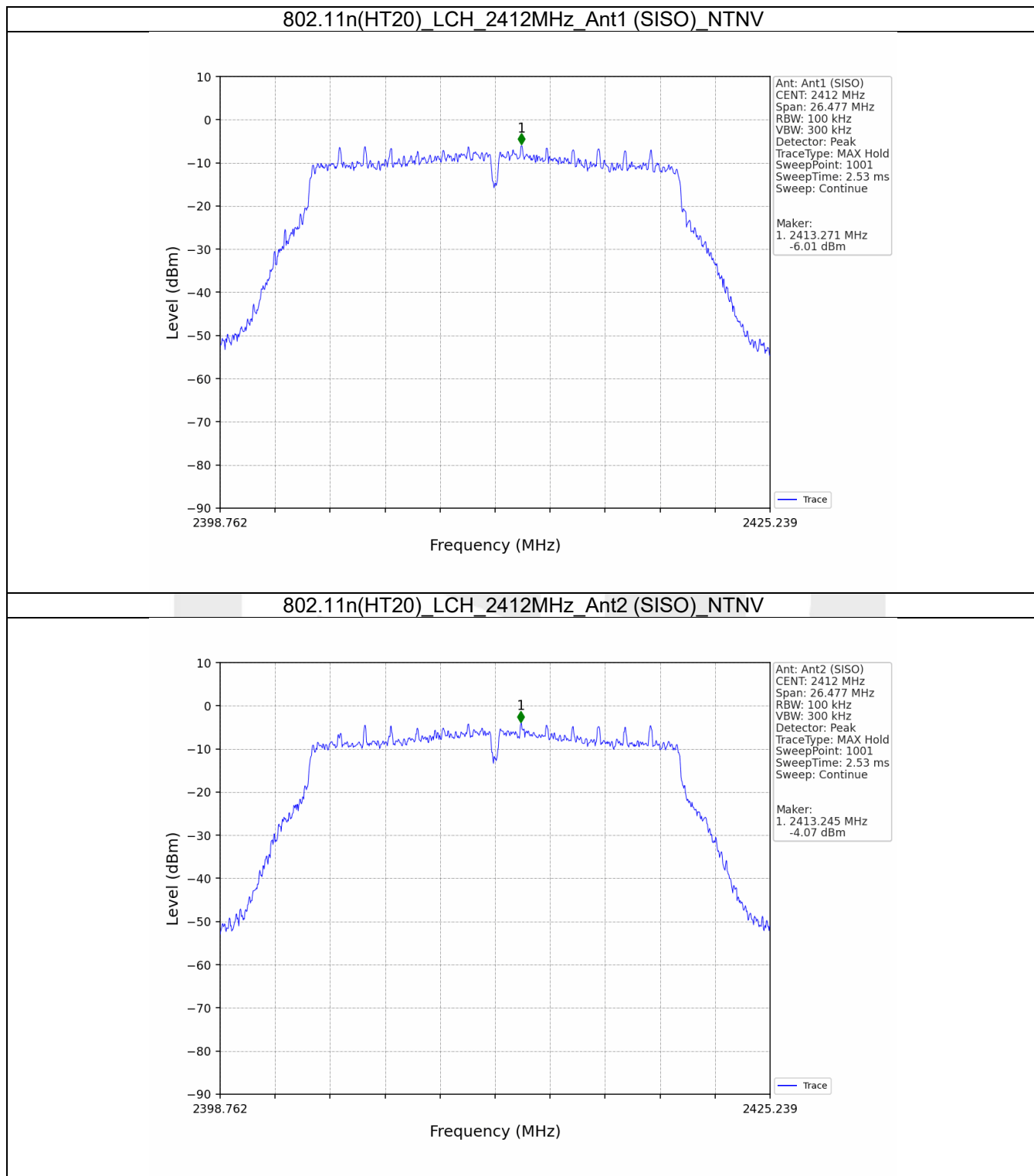


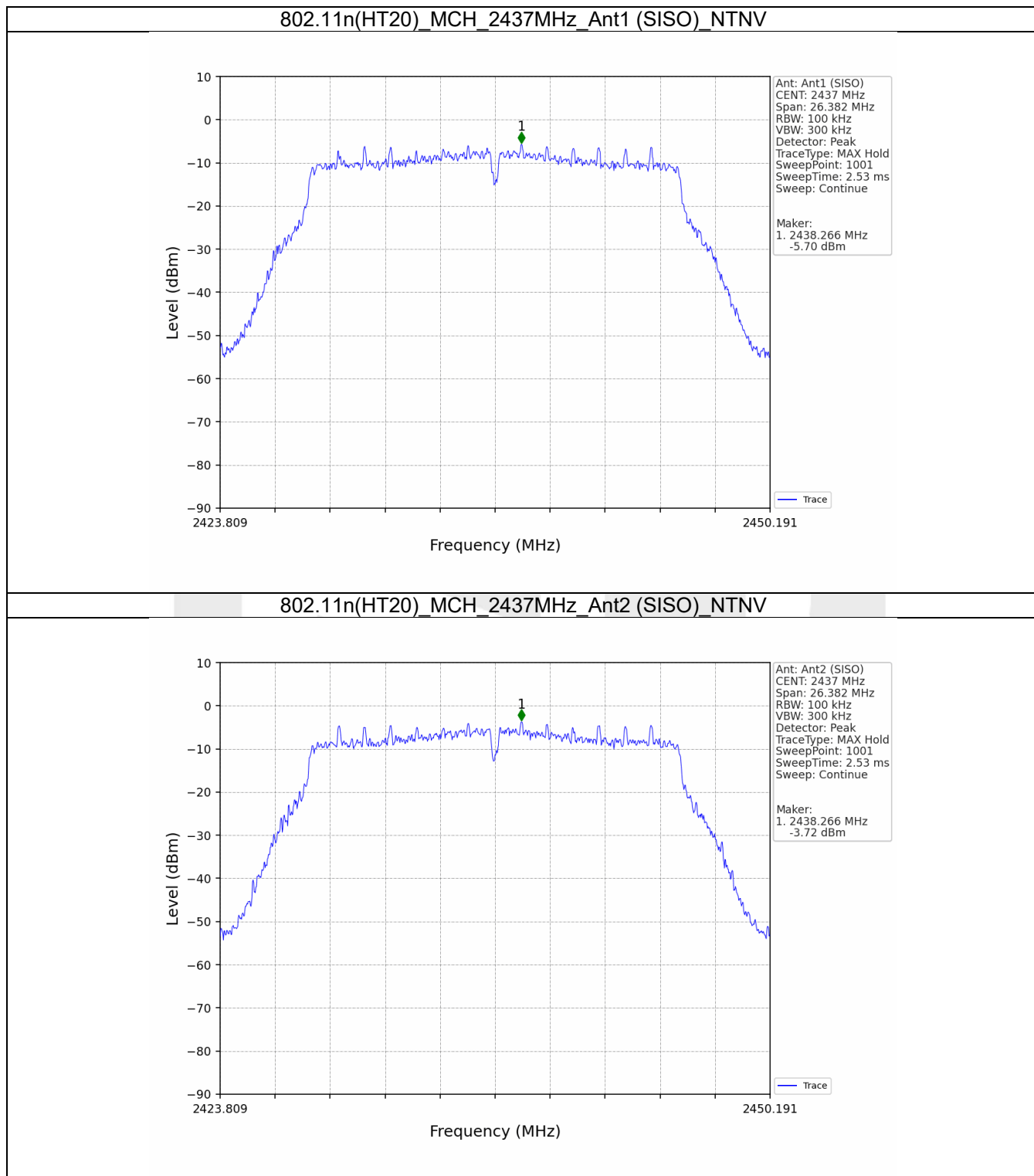


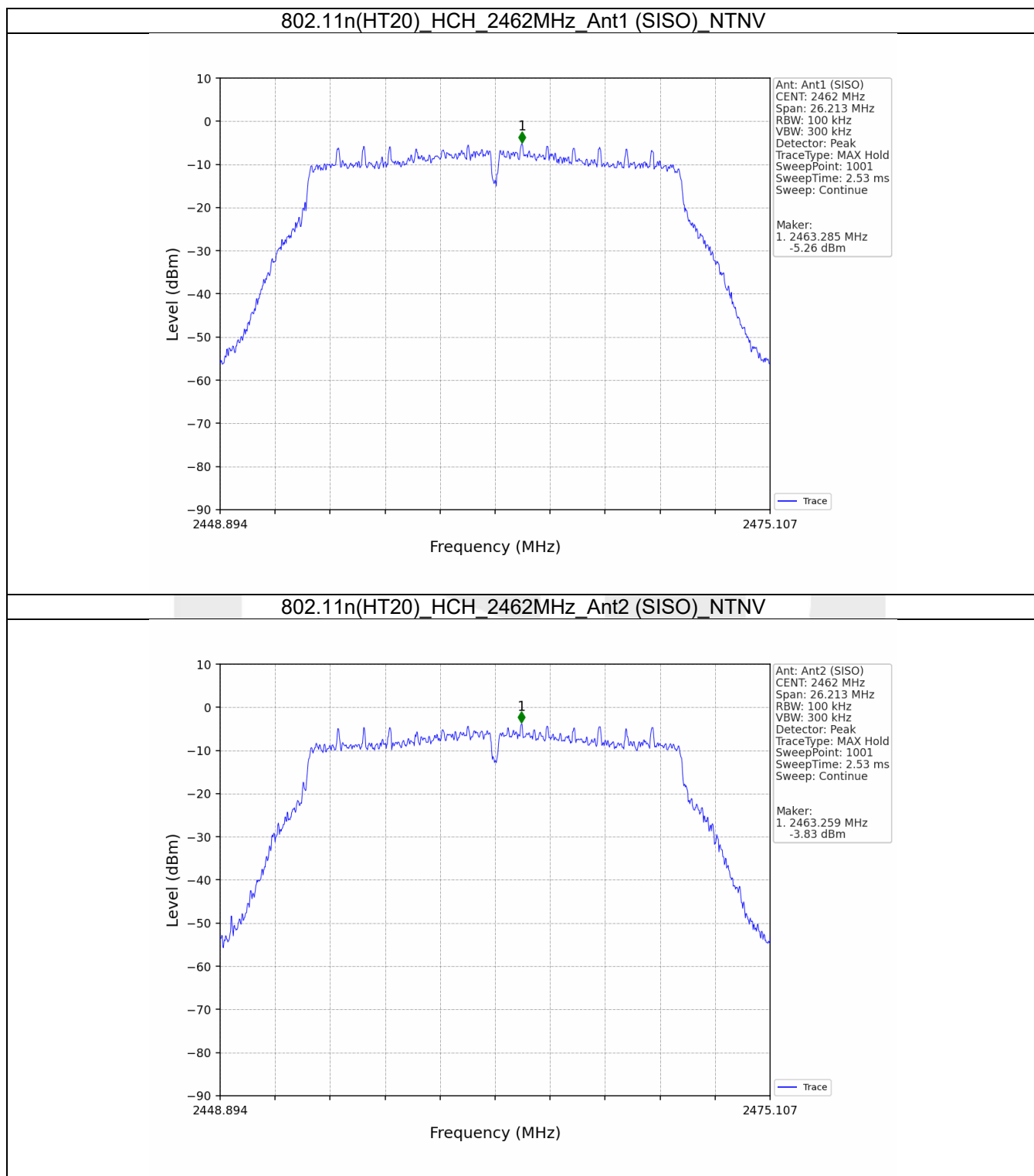


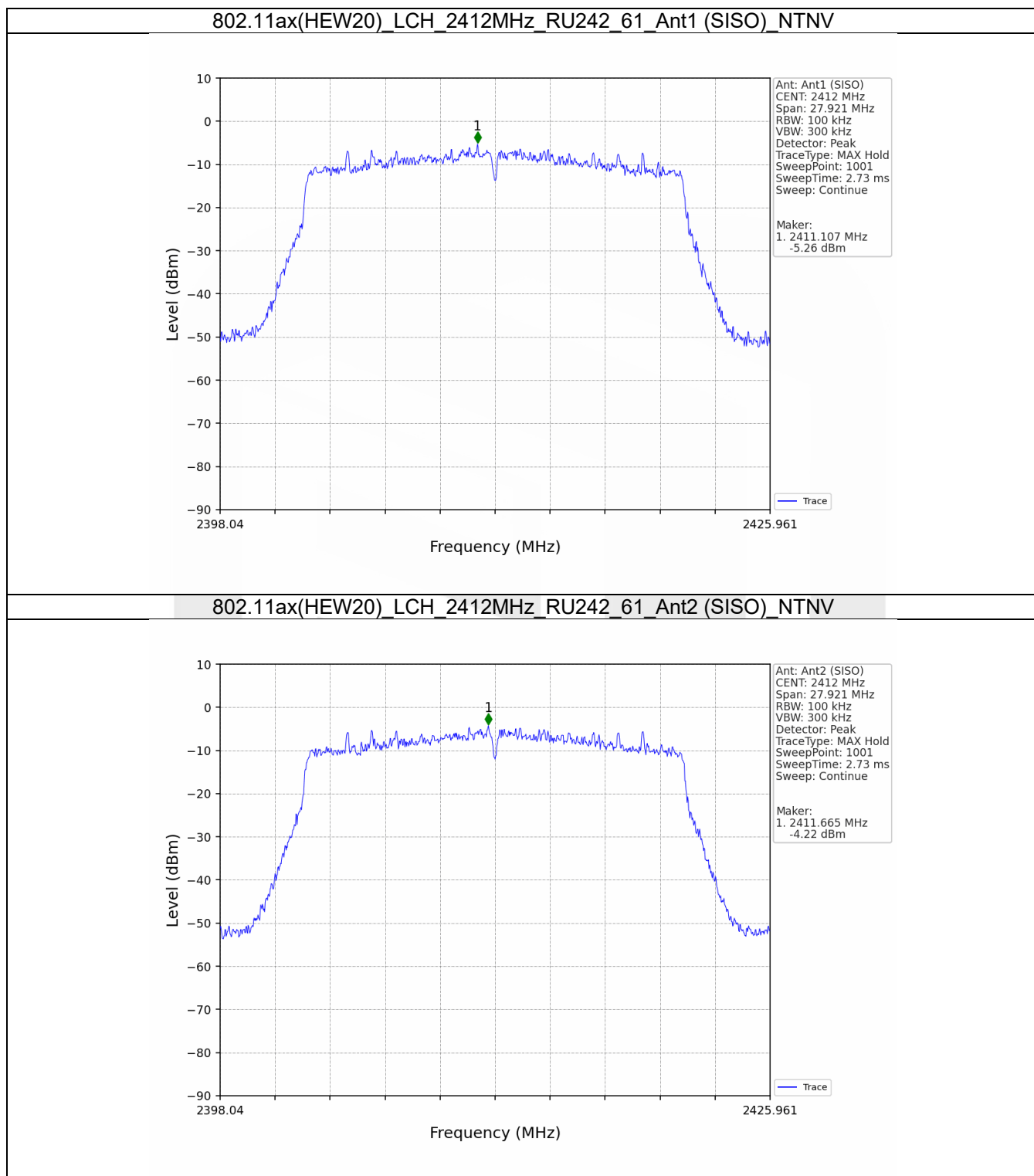


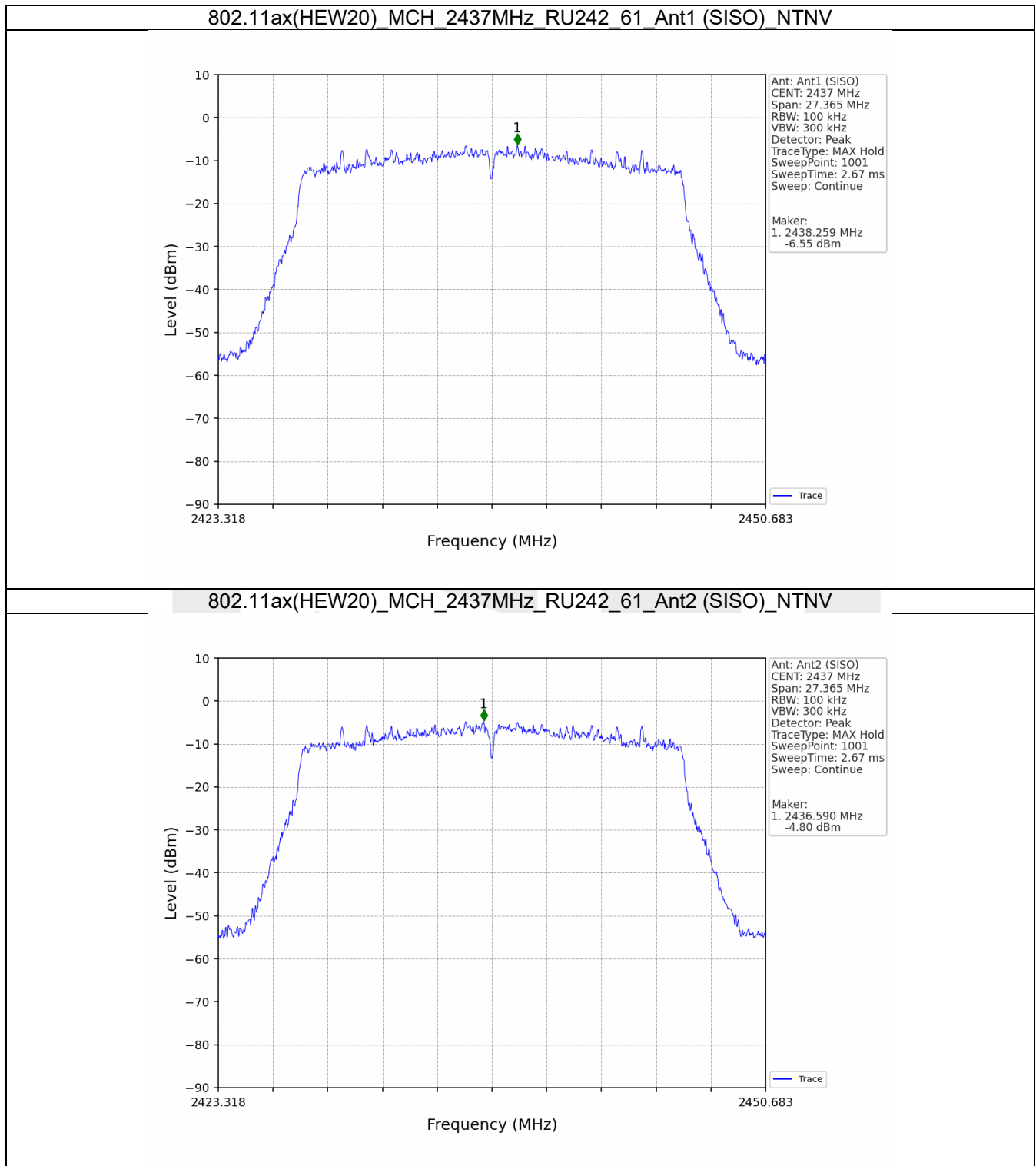


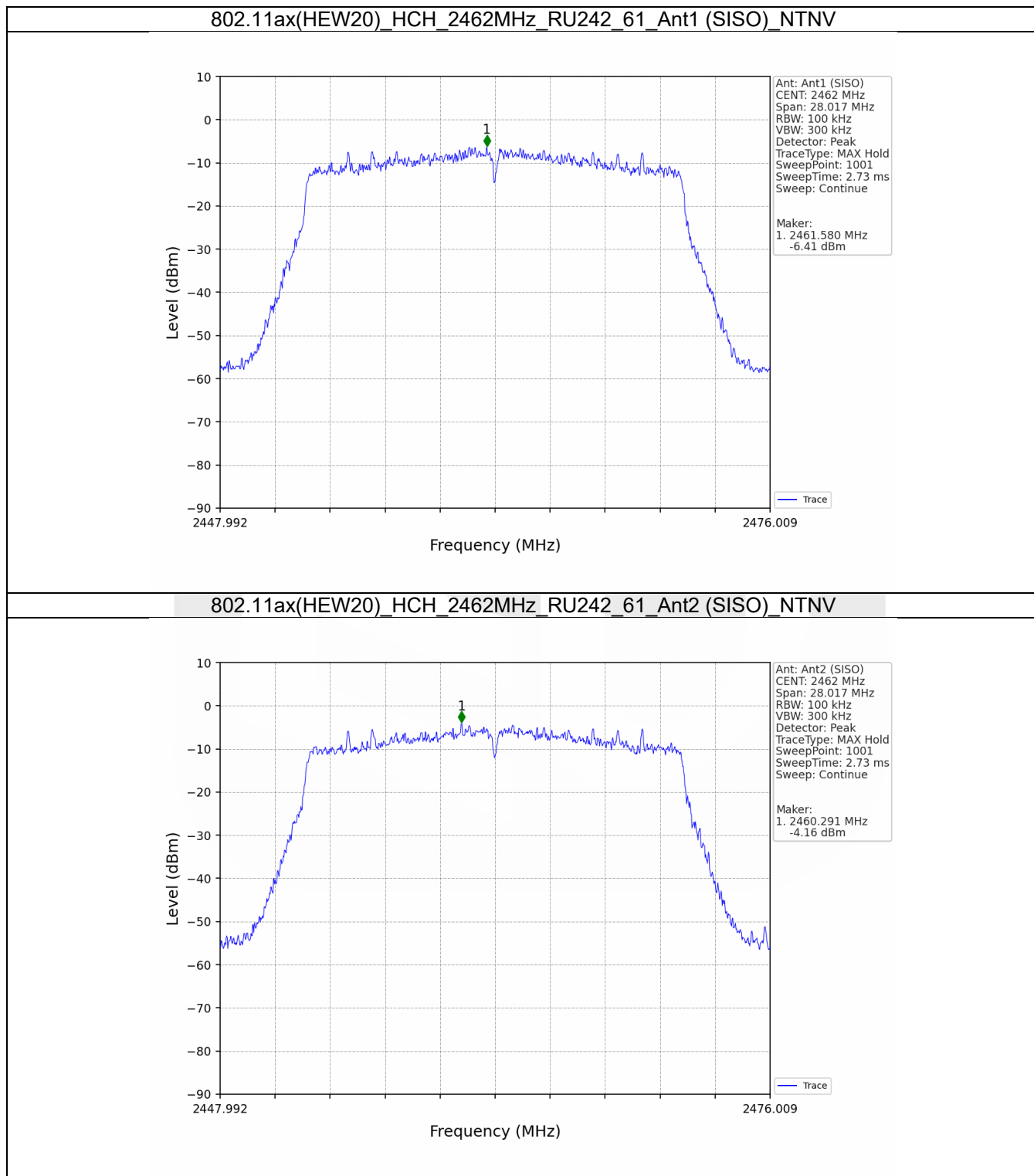












5.2.2 CSE

