

Appendix A for SHCR220200044201

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

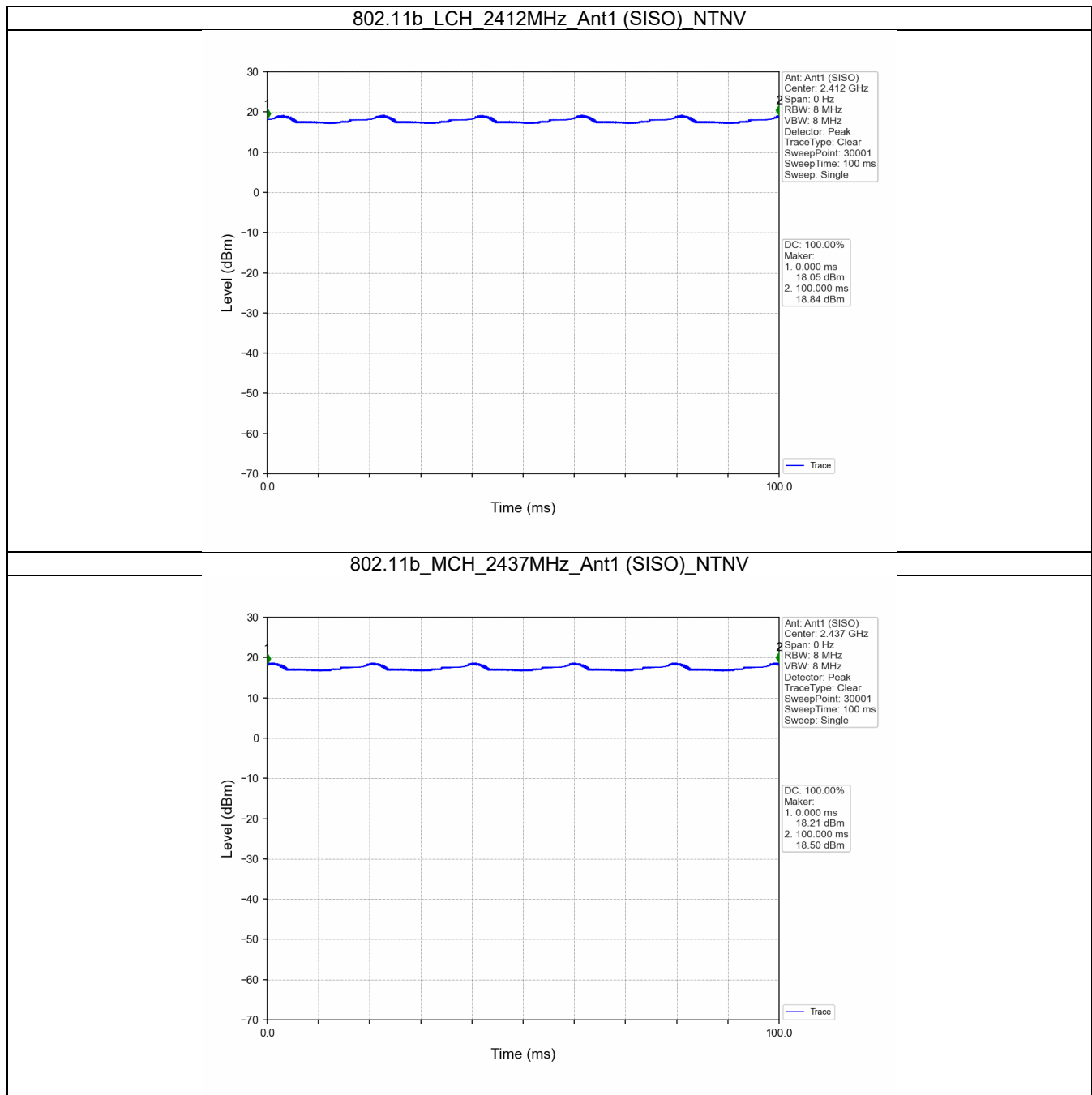
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00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



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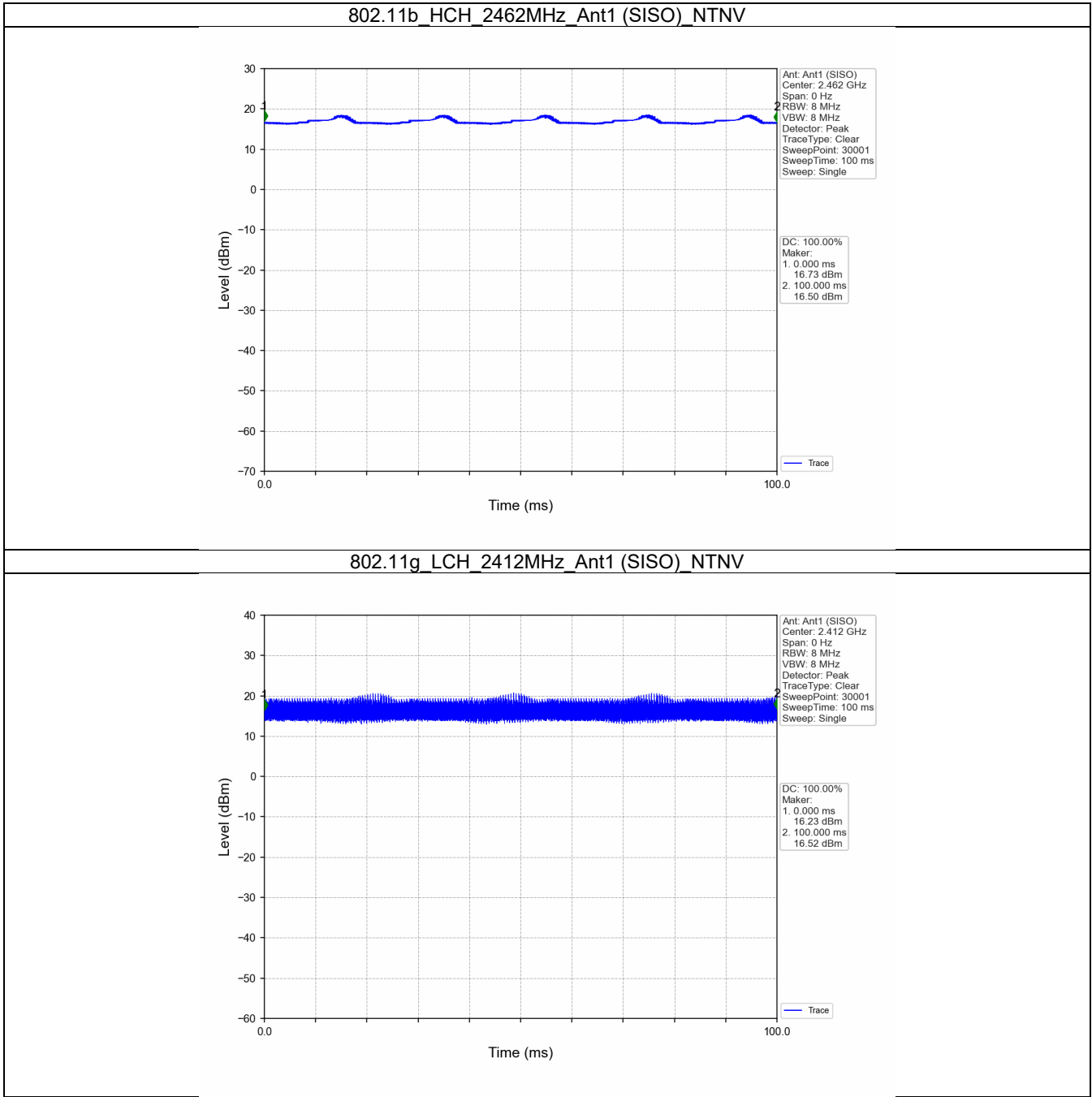
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1.1.2 Test Graph



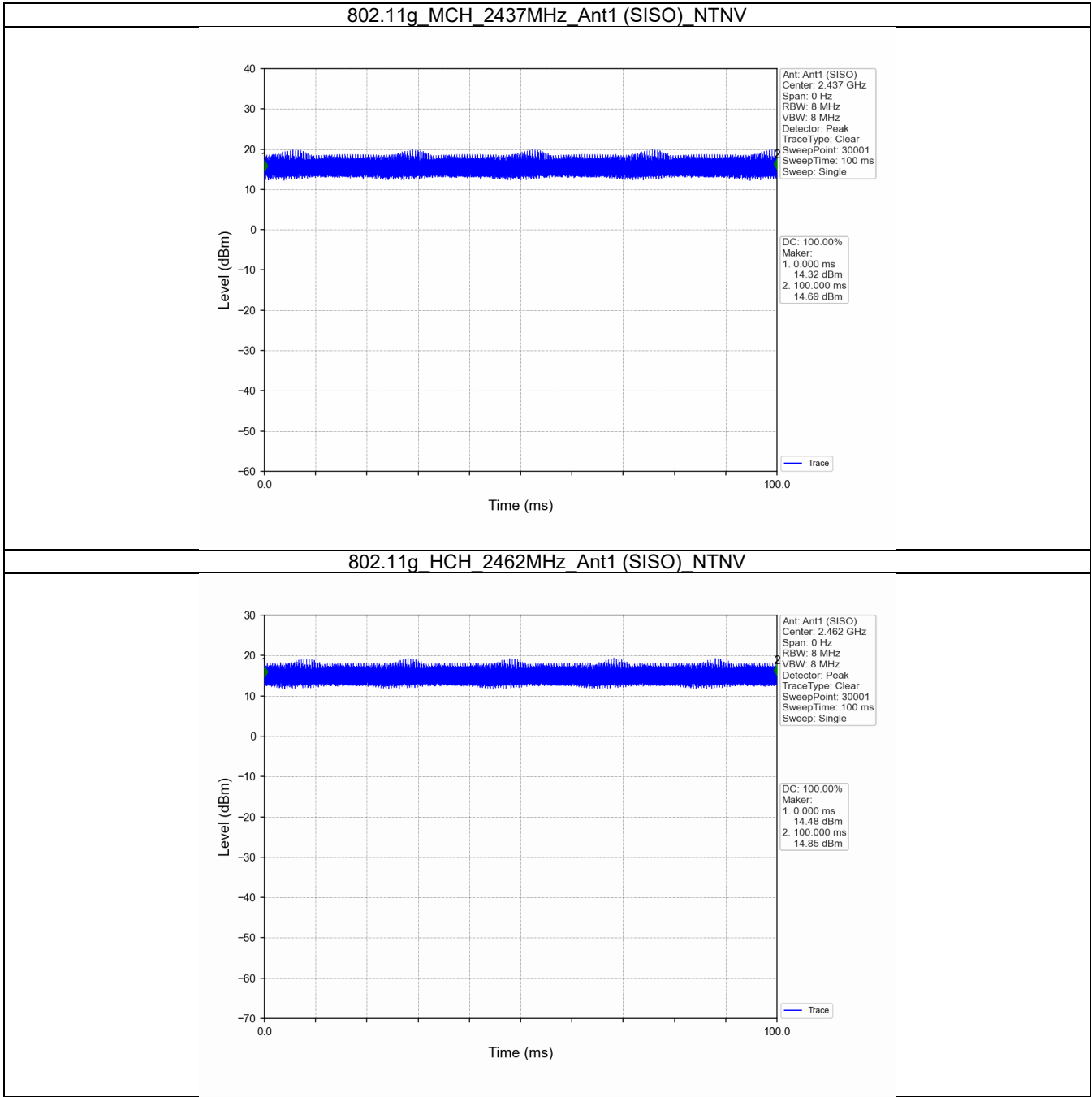
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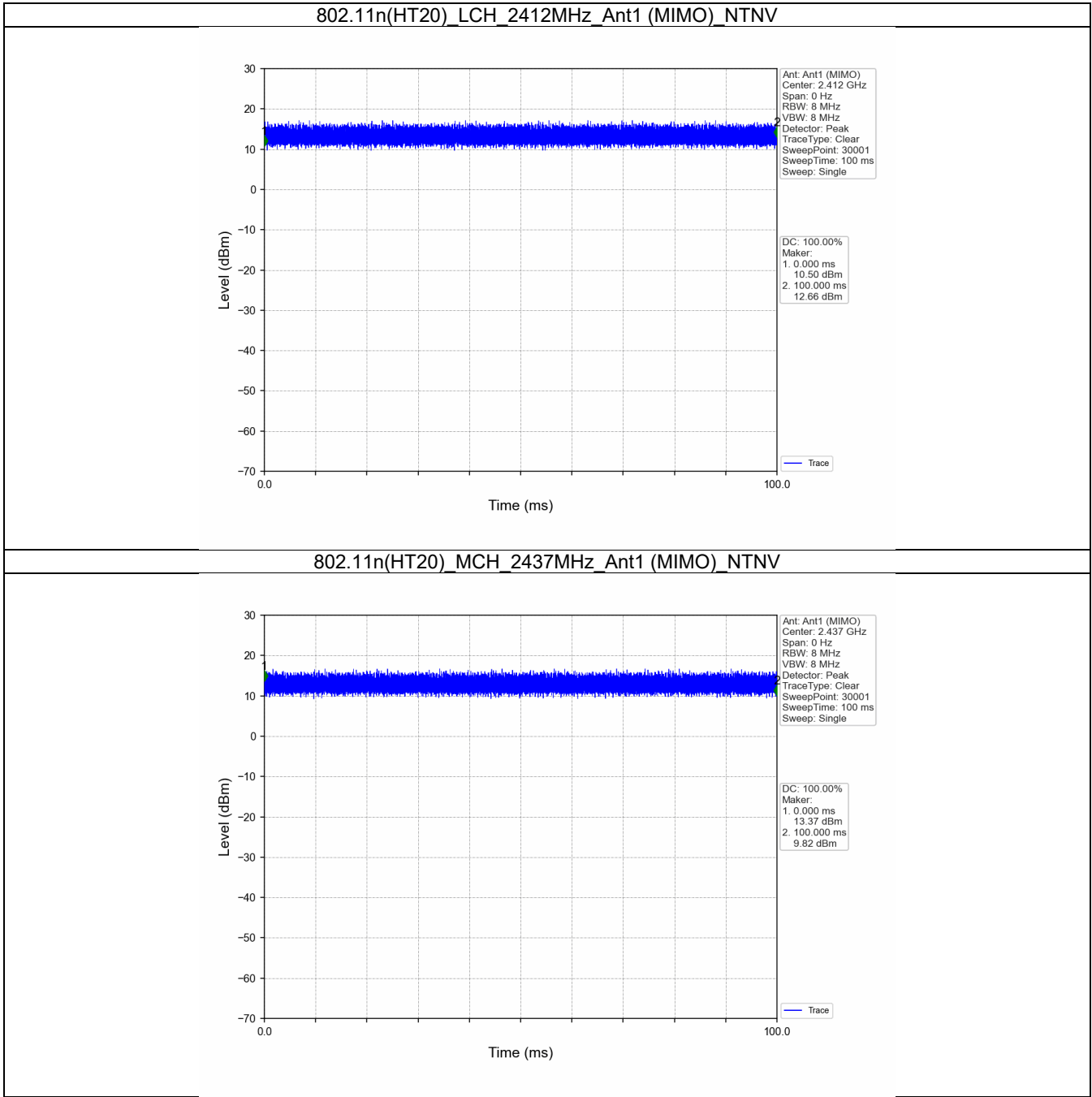
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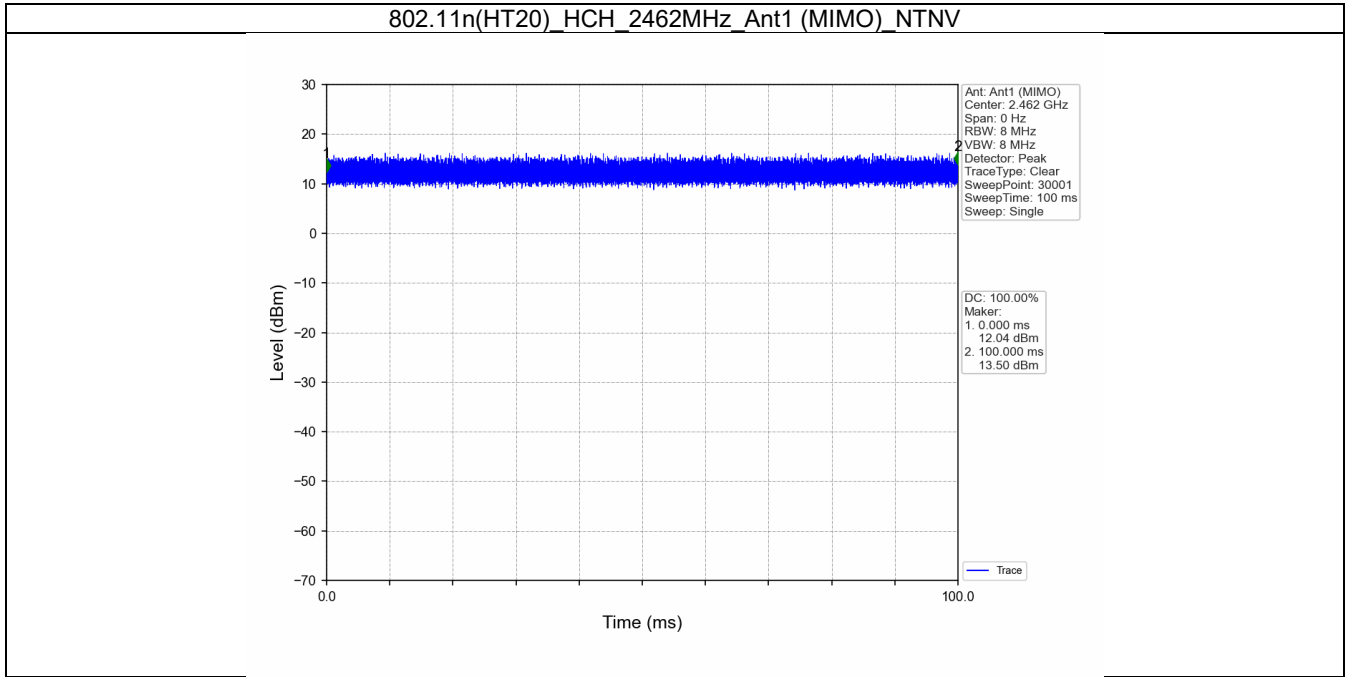
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

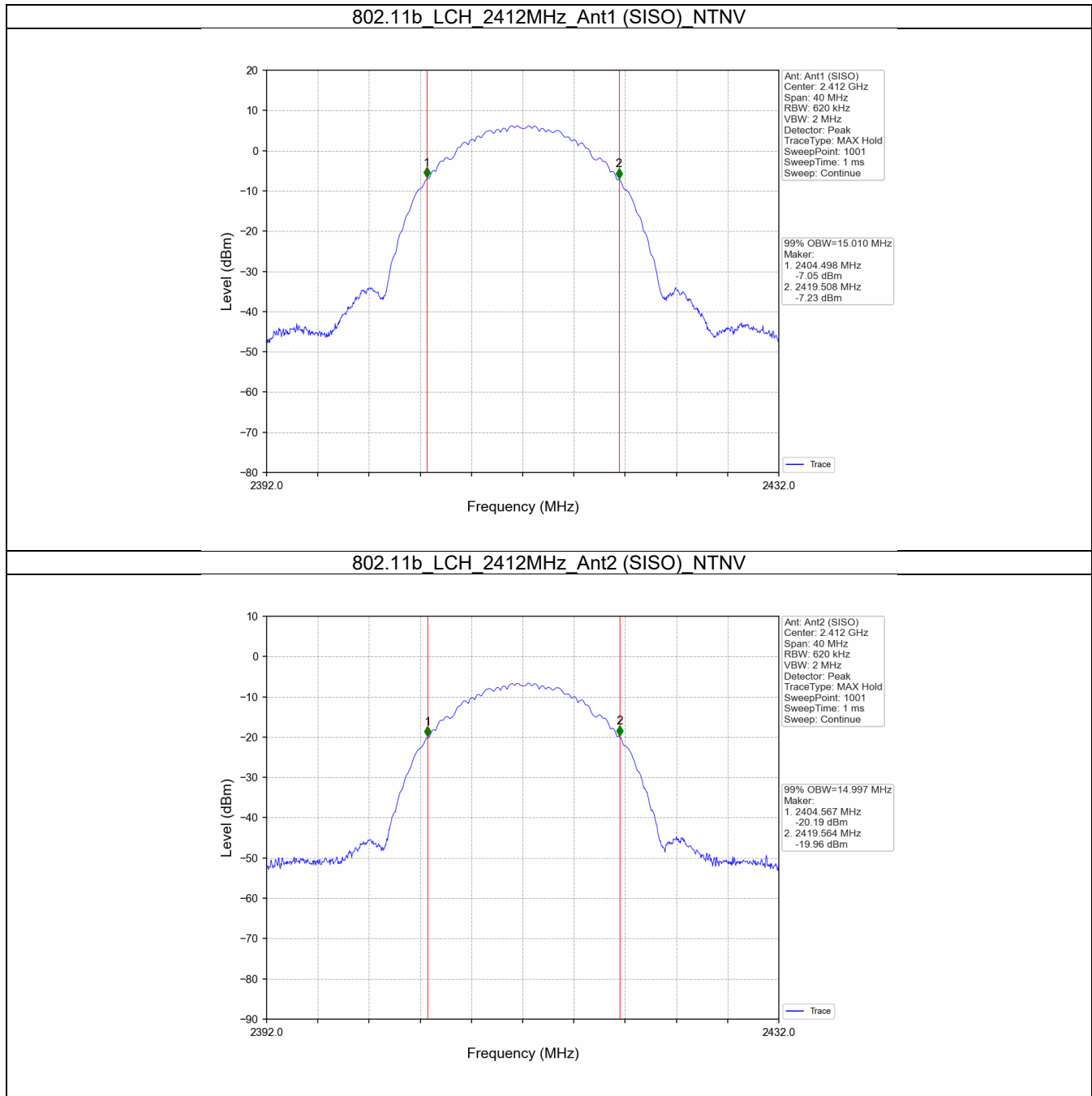
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	15.010	Pass
			2	14.997	Pass
		2437	1	15.030	Pass
			2	15.023	Pass
		2462	1	15.033	Pass
			2	15.021	Pass
802.11g	SISO	2412	1	17.410	Pass
			2	17.597	Pass
		2437	1	17.404	Pass
			2	17.611	Pass
		2462	1	17.400	Pass
			2	17.572	Pass
802.11n (HT20)	MIMO	2412	1	18.388	Pass
			2	18.425	Pass
		2437	1	18.390	Pass
			2	18.420	Pass
		2462	1	18.381	Pass
			2	18.418	Pass



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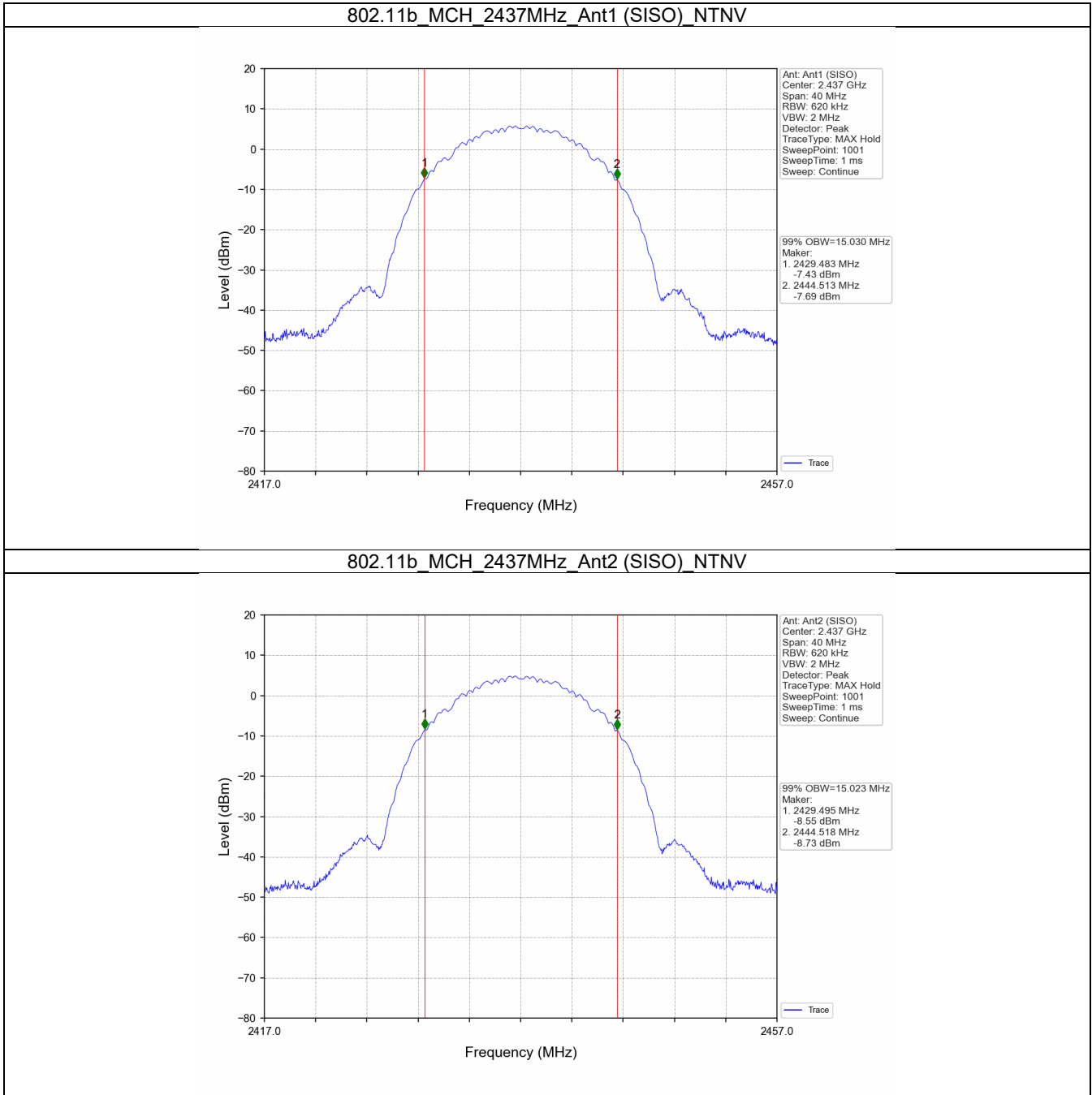
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2.1.2 Test Graph



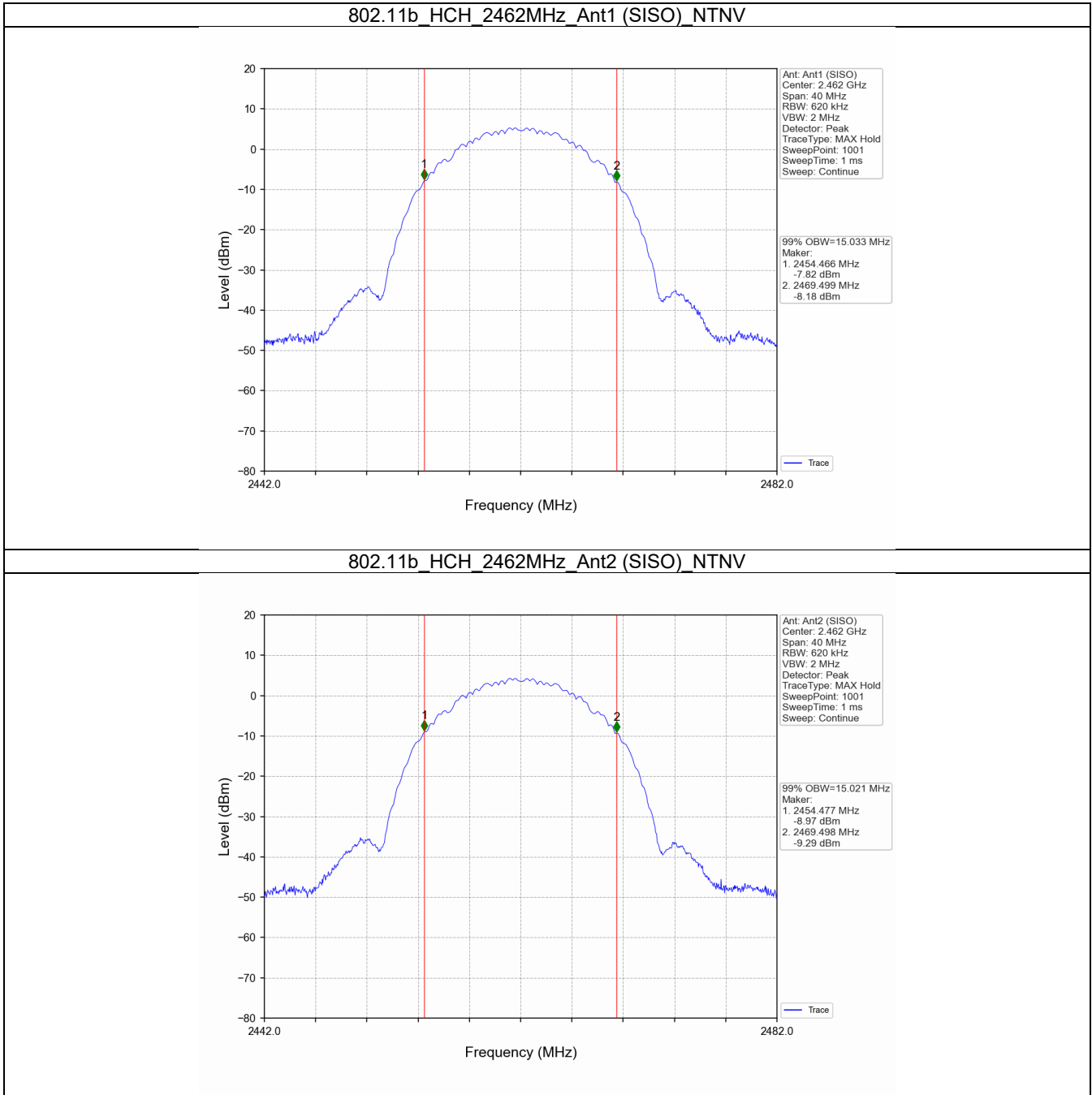
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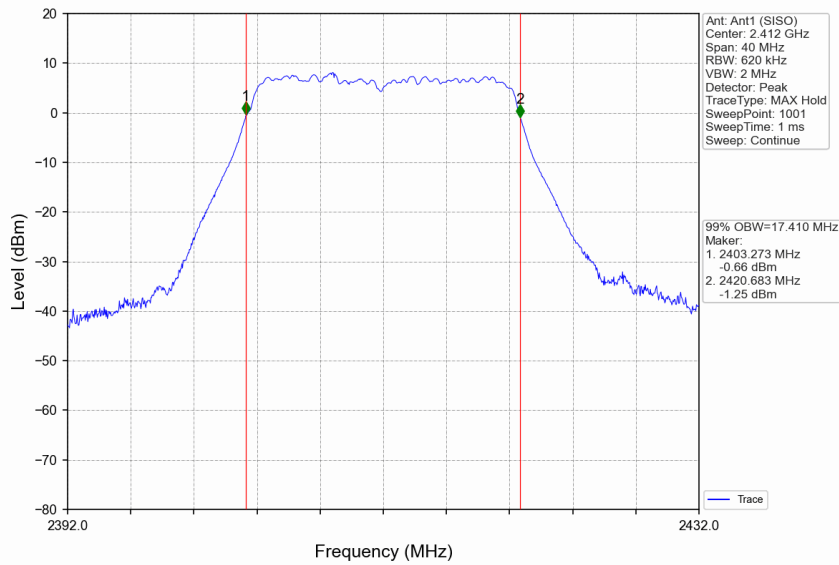
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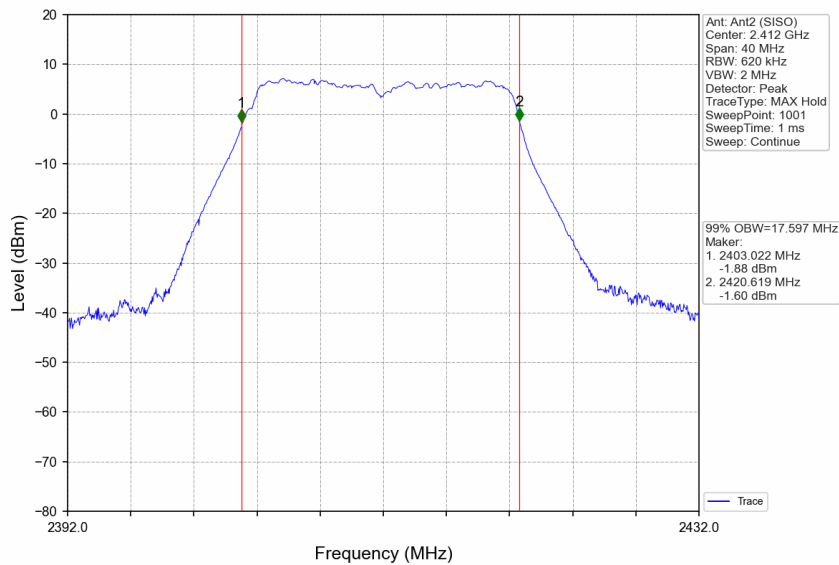
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802.11g LCH_2412MHz_Ant1 (SISO) NTN



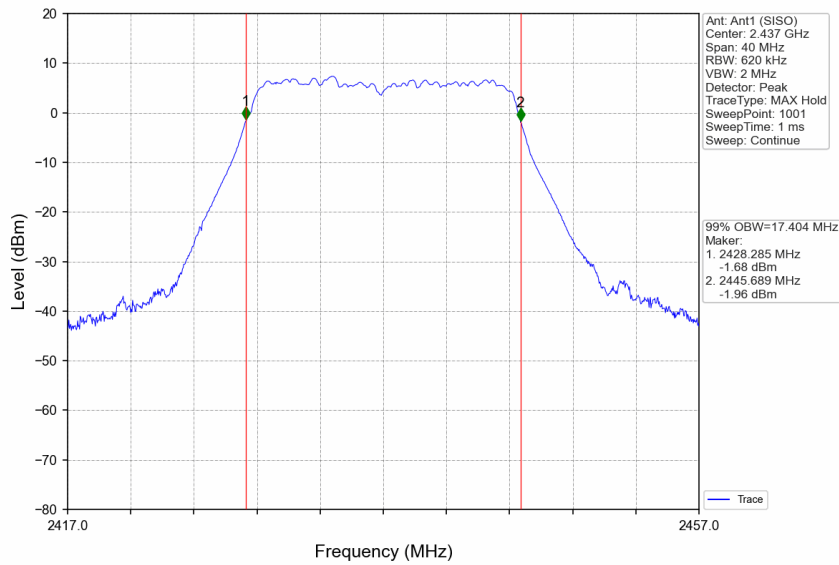
802.11g LCH_2412MHz_Ant2 (SISO) NTN



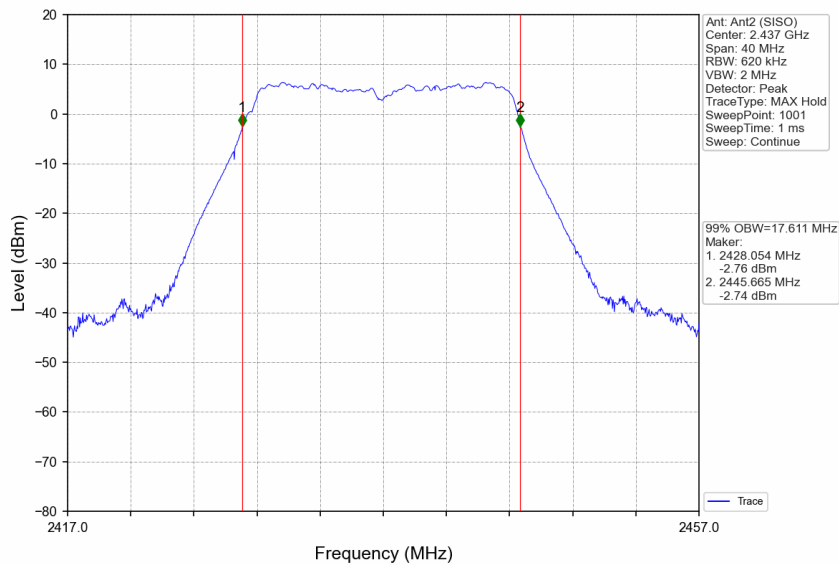
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802.11g_MCH_2437MHz_Ant1 (SISO) NTN



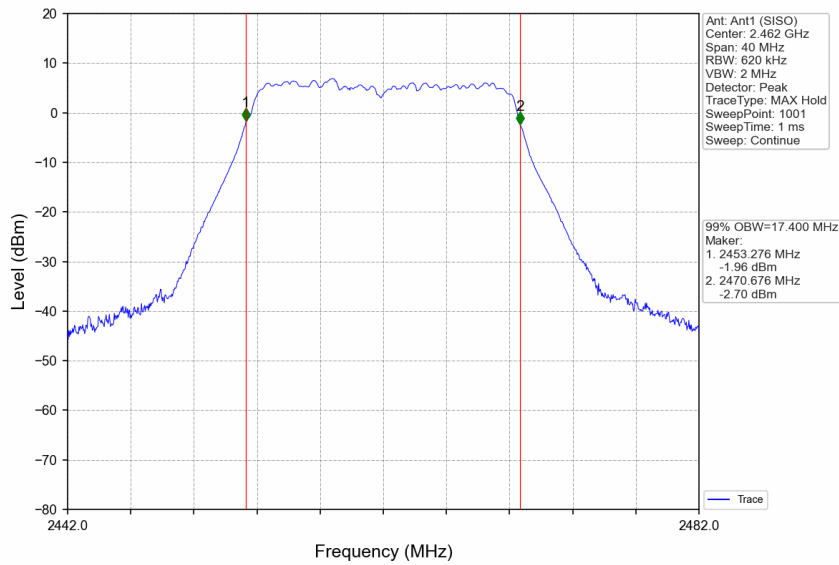
802.11g_MCH_2437MHz_Ant2 (SISO) NTN



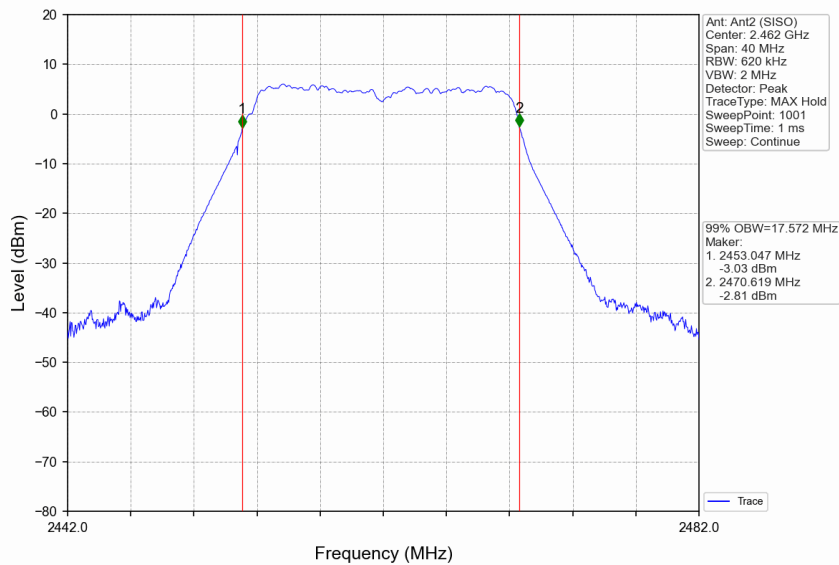
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802.11g_HCH_2462MHz_Ant1 (SISO) NTN



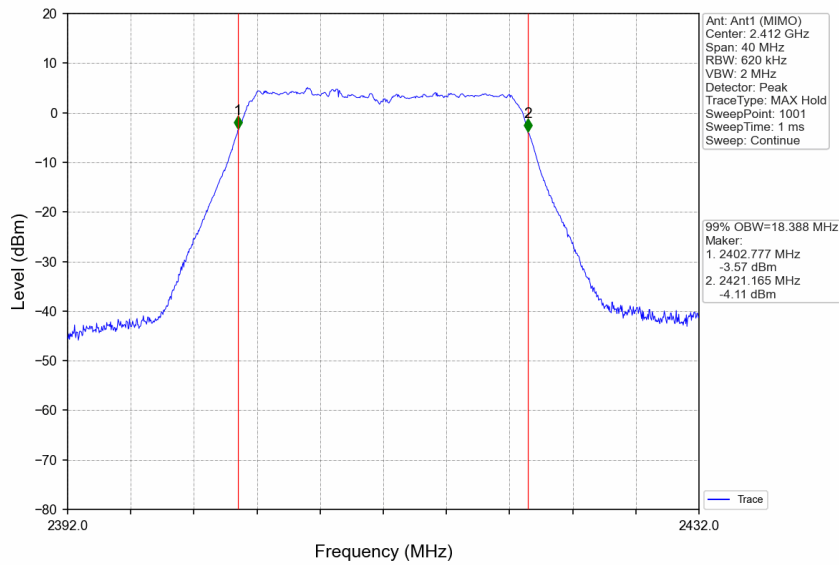
802.11g_HCH_2462MHz_Ant2 (SISO) NTN



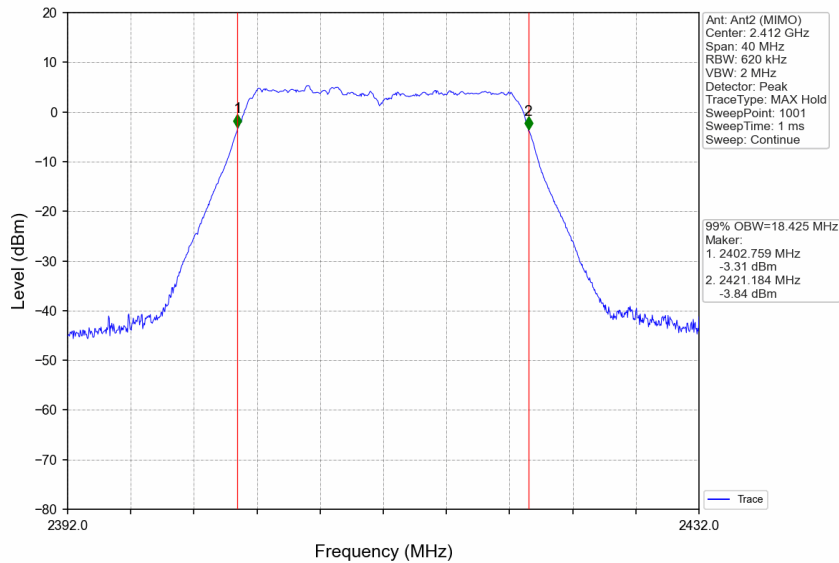
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



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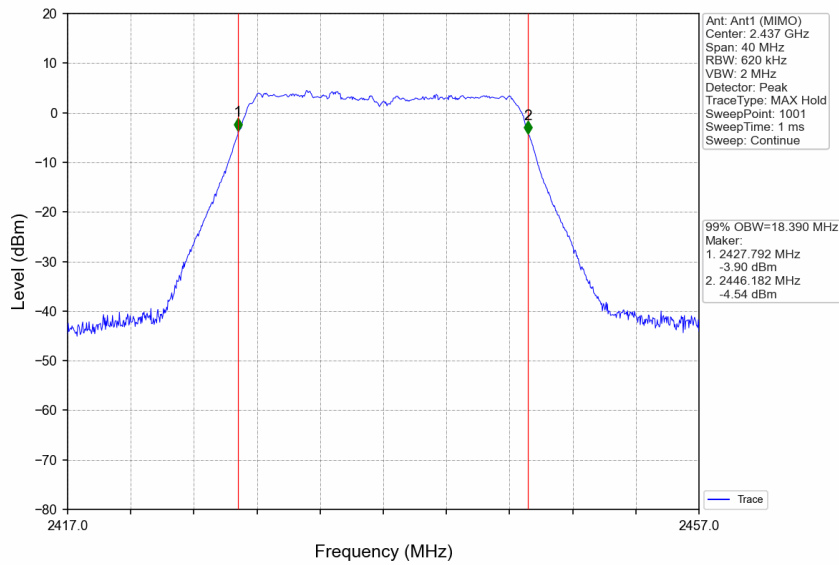
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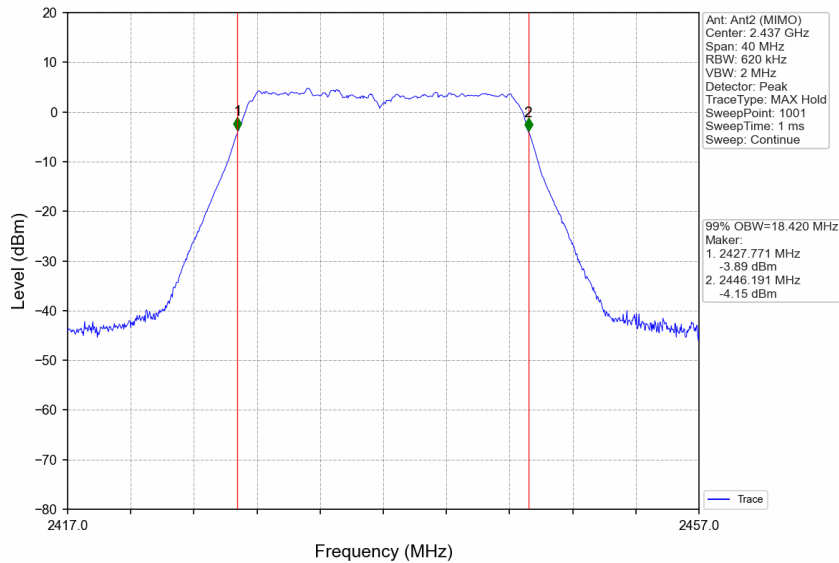
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



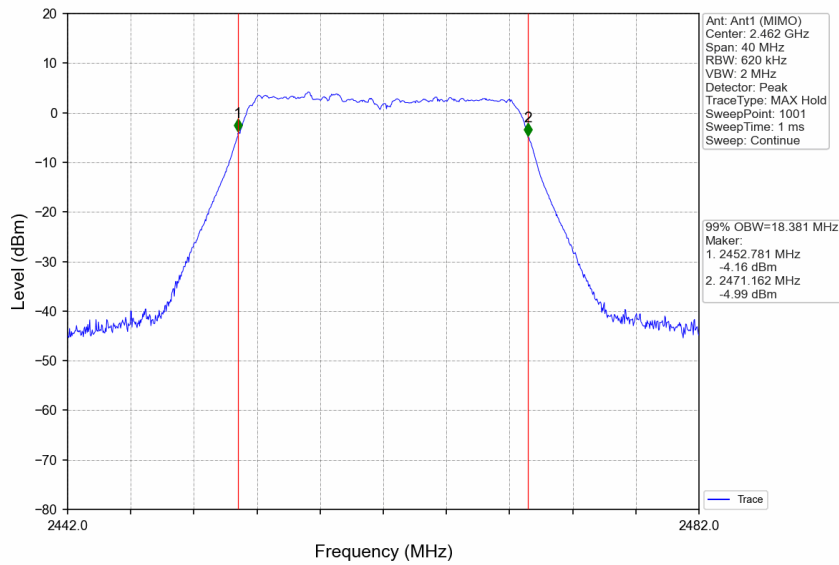
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



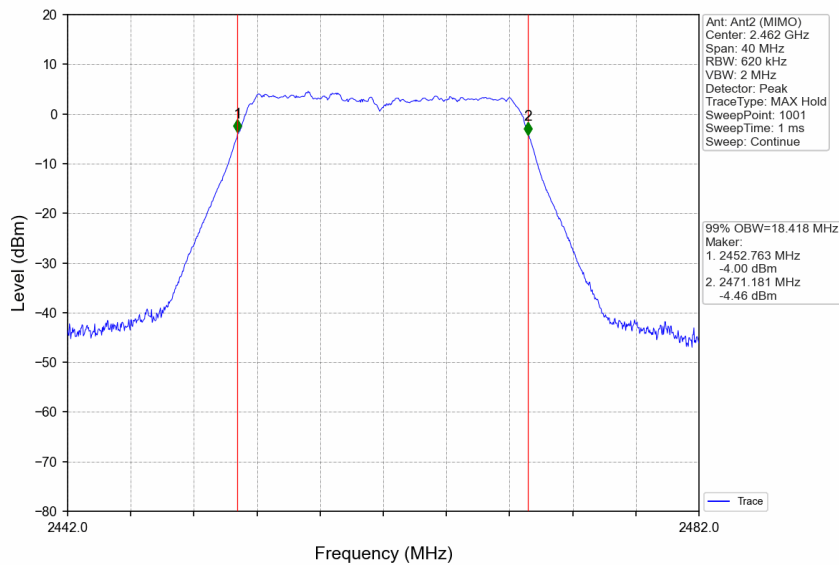
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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2.2 6dB BW

2.2.1 Test Result

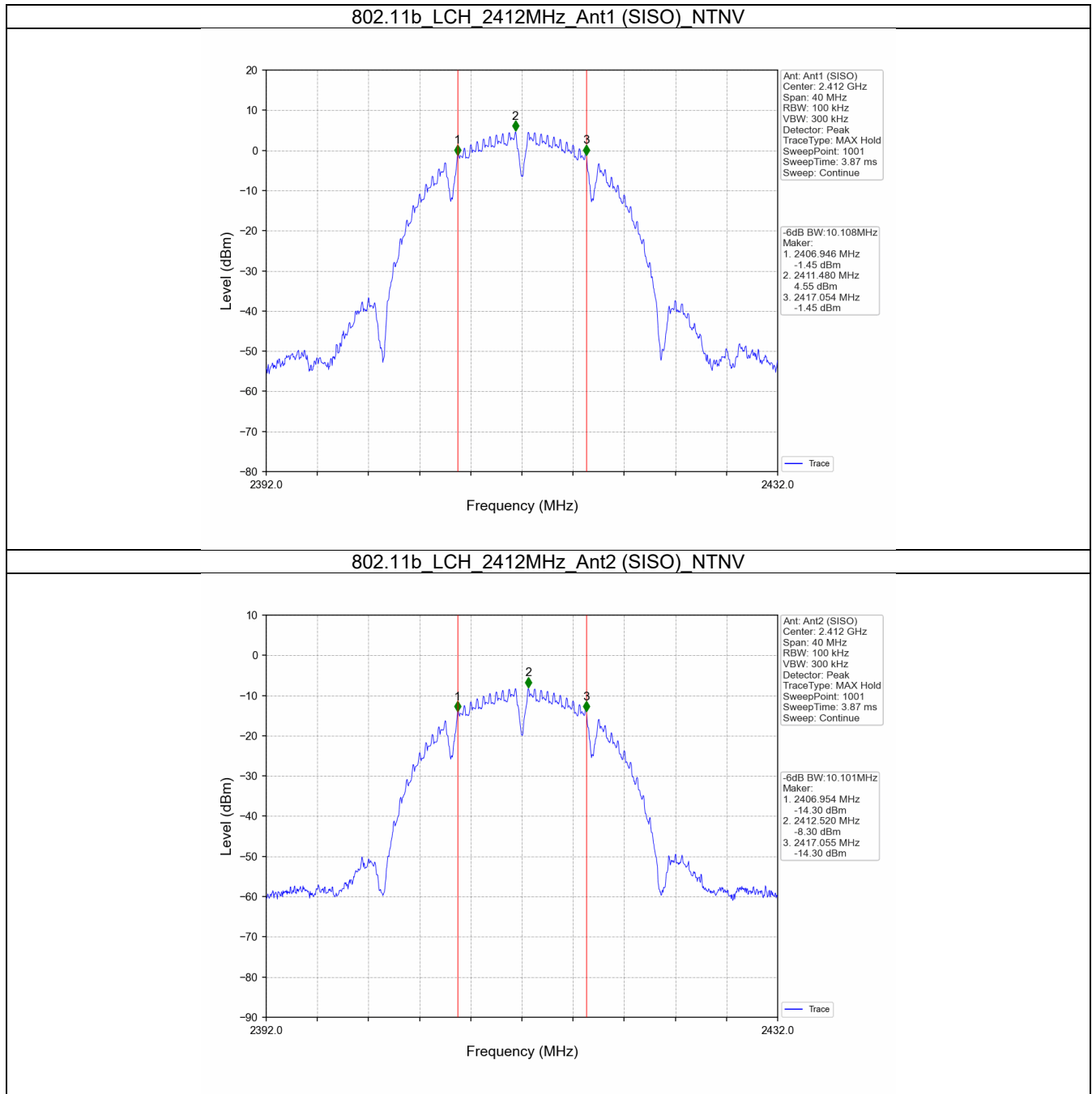
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.108	>=0.5	Pass
			2	10.101	>=0.5	Pass
		2437	1	10.103	>=0.5	Pass
			2	10.091	>=0.5	Pass
		2462	1	10.104	>=0.5	Pass
			2	10.096	>=0.5	Pass
802.11g	SISO	2412	1	16.585	>=0.5	Pass
			2	16.600	>=0.5	Pass
		2437	1	16.580	>=0.5	Pass
			2	16.612	>=0.5	Pass
		2462	1	16.574	>=0.5	Pass
			2	16.603	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.767	>=0.5	Pass
			2	17.818	>=0.5	Pass
		2437	1	17.804	>=0.5	Pass
			2	17.814	>=0.5	Pass
		2462	1	17.801	>=0.5	Pass
			2	17.801	>=0.5	Pass



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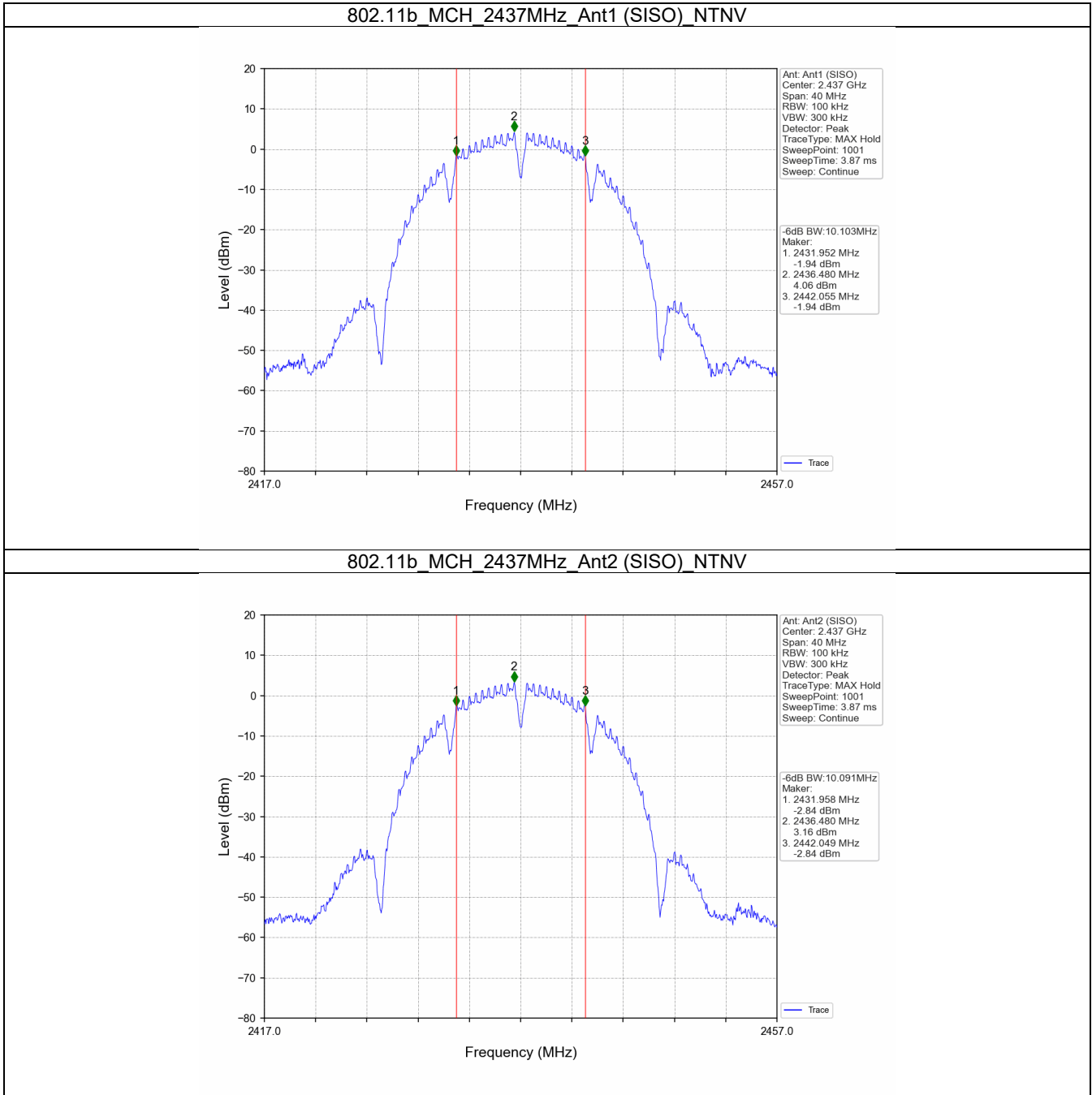
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2.2.2 Test Graph



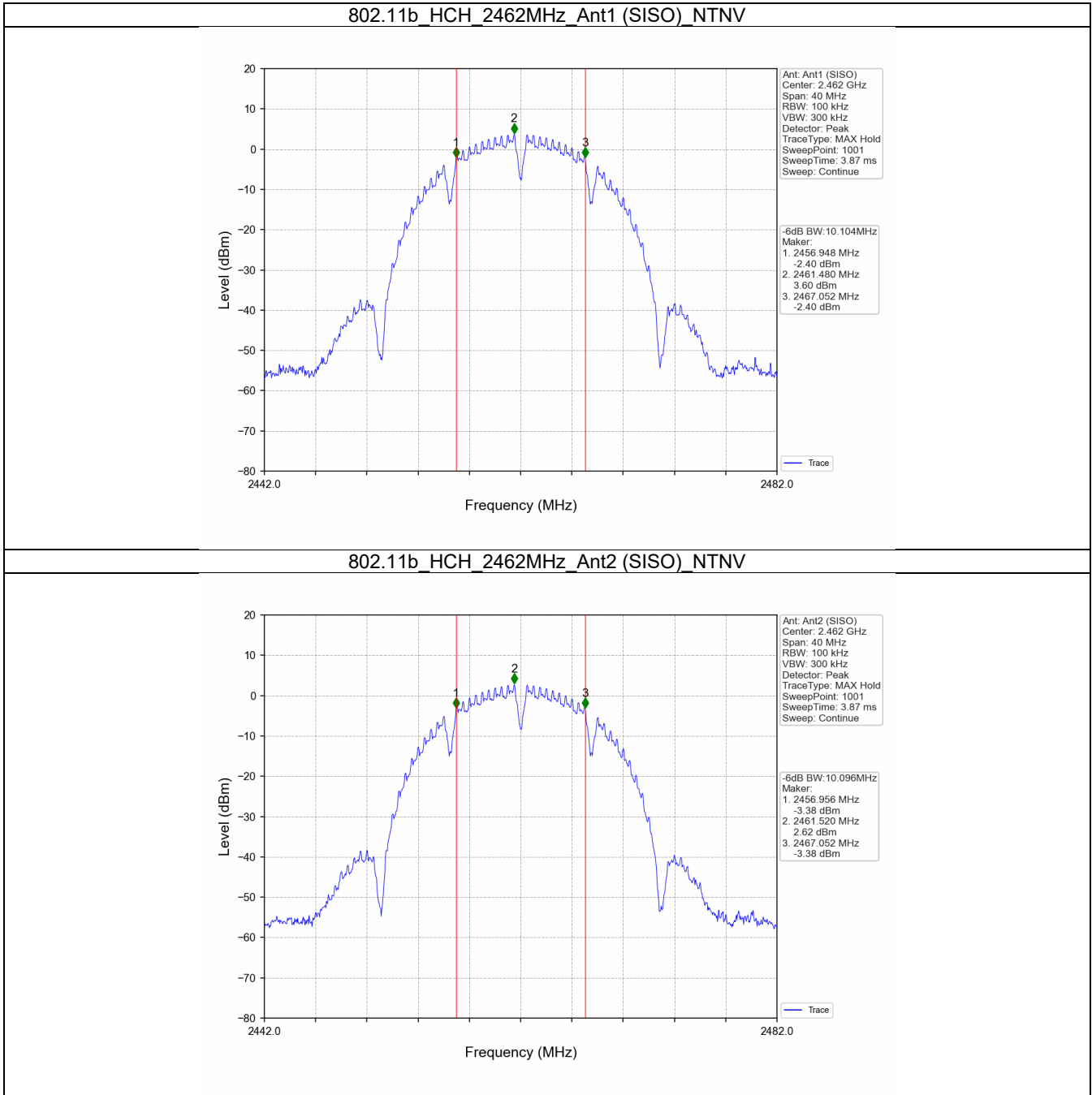
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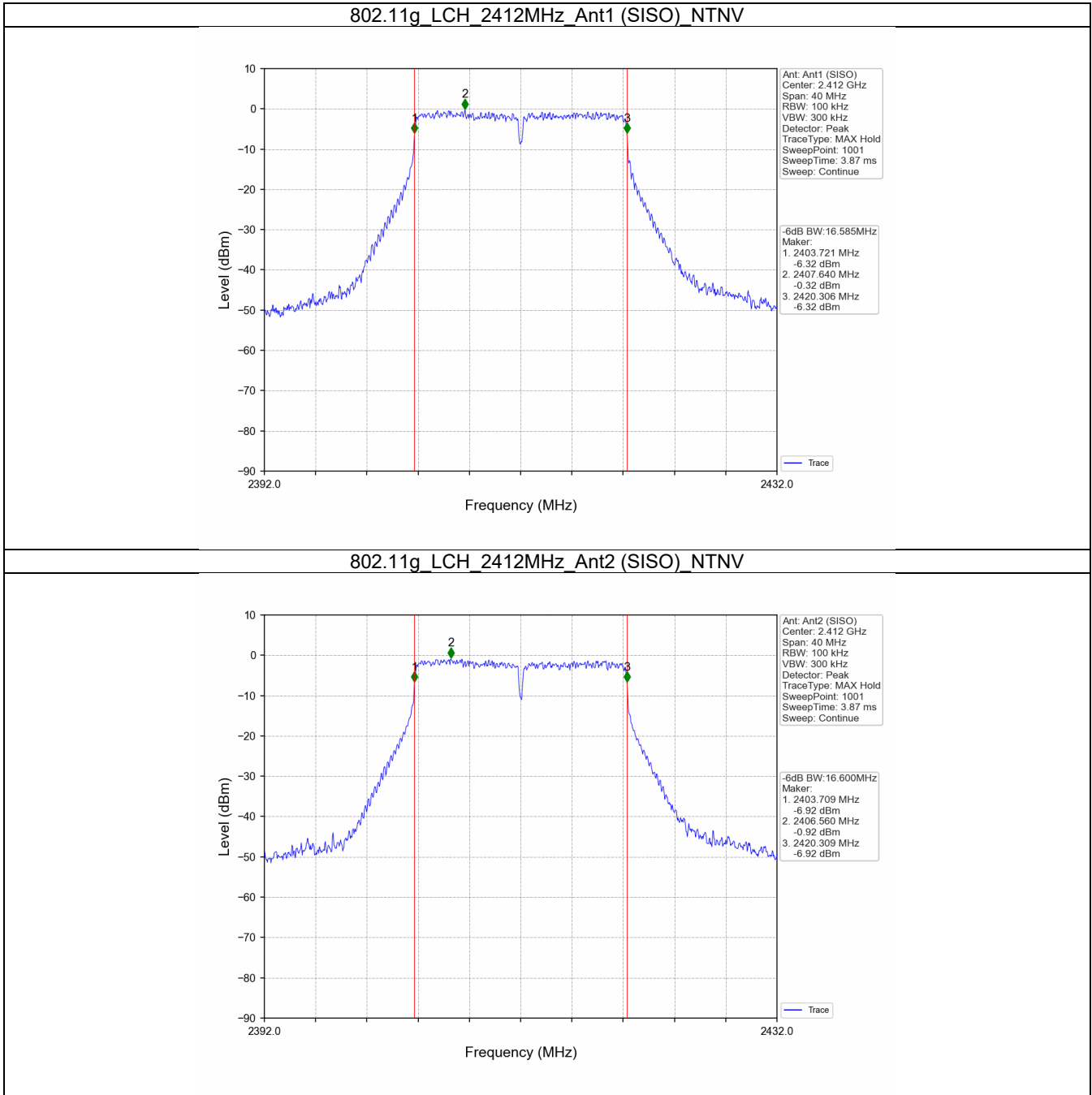
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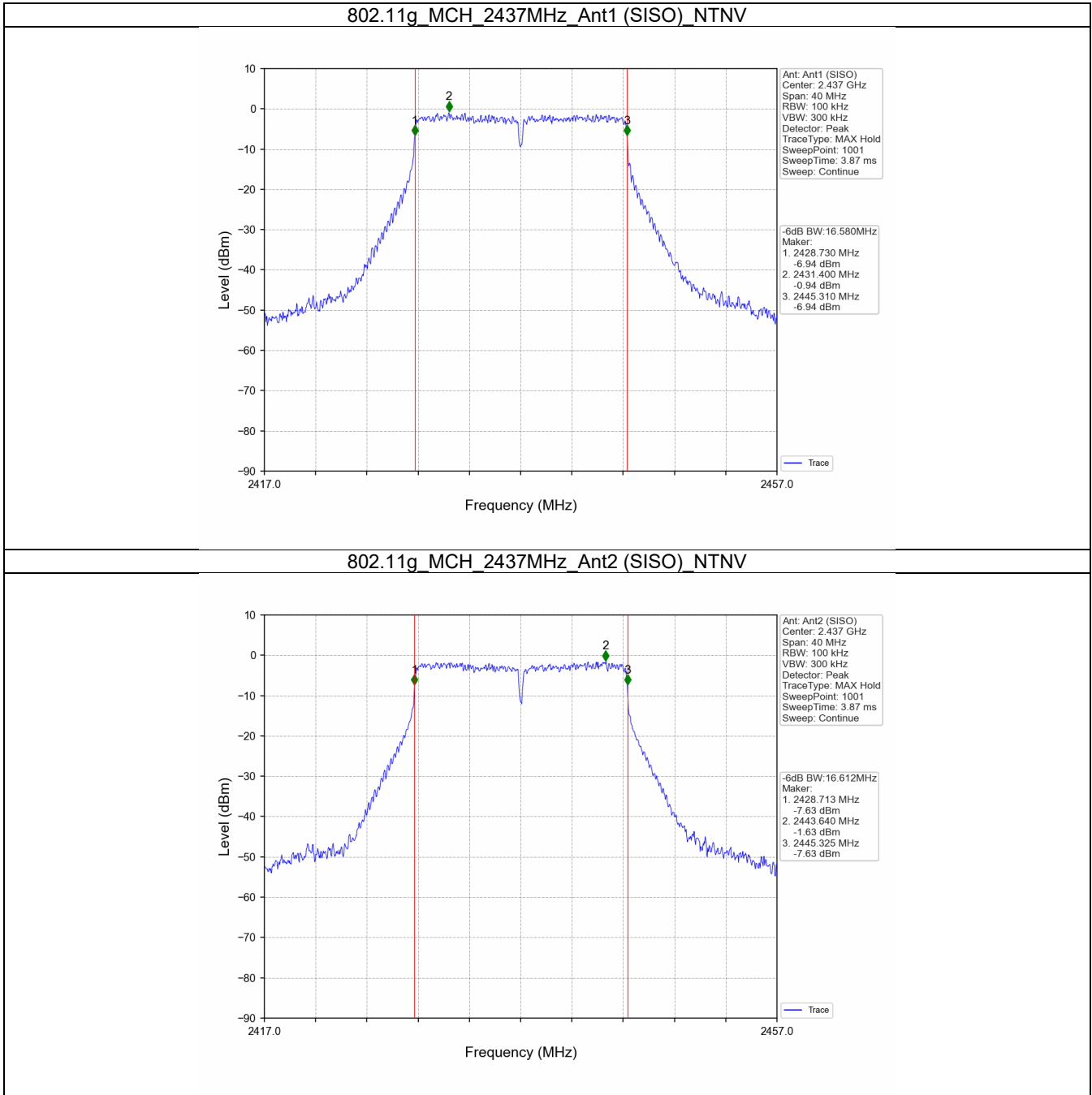
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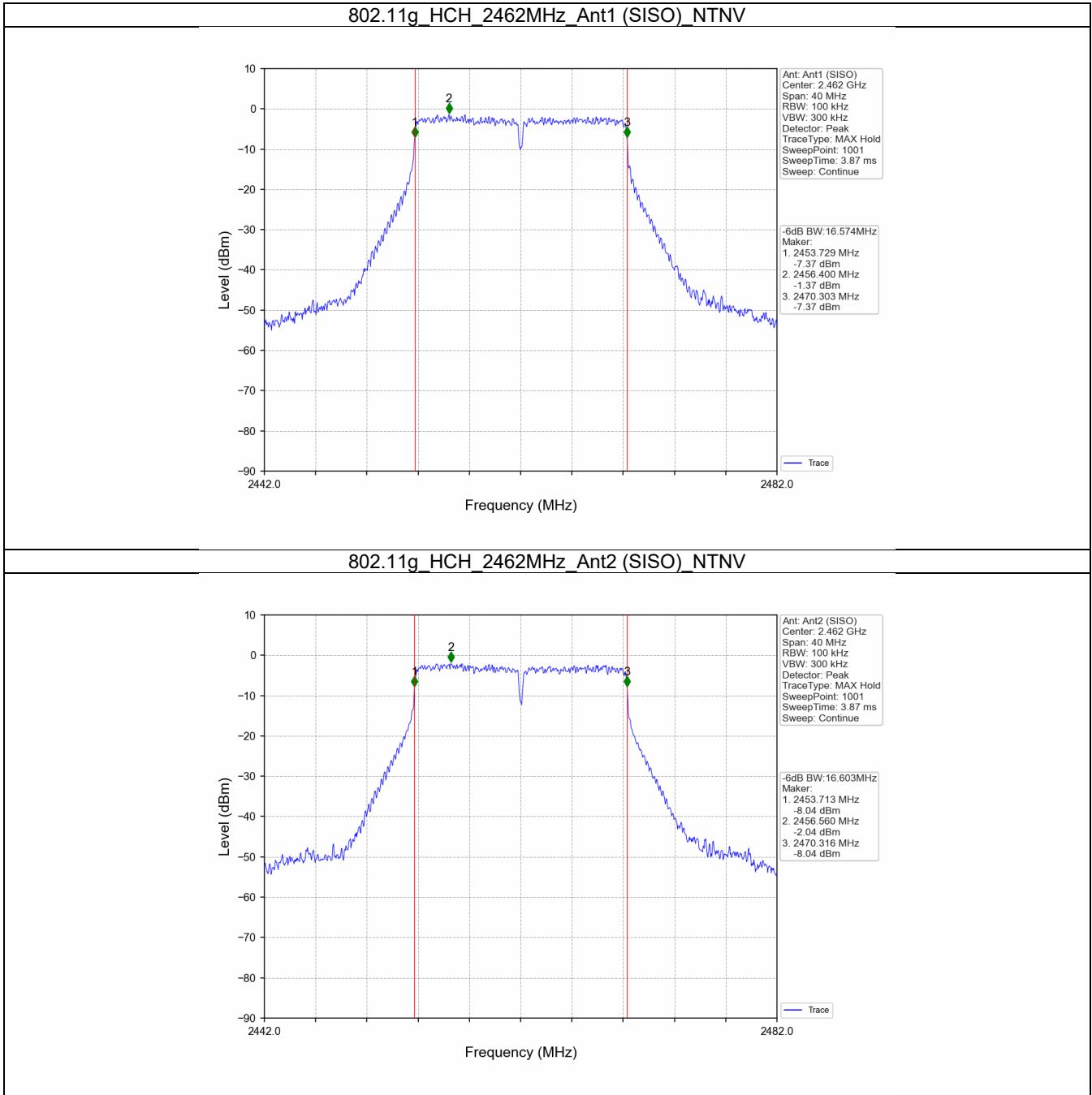
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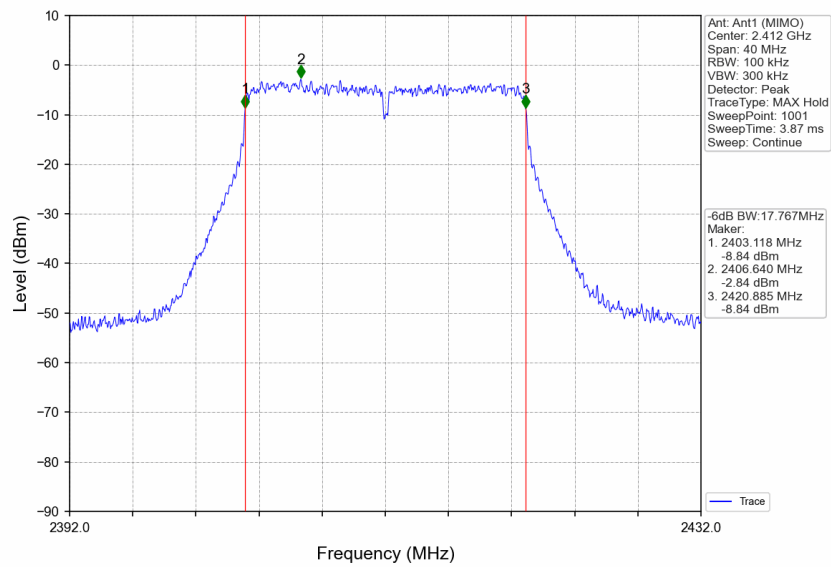
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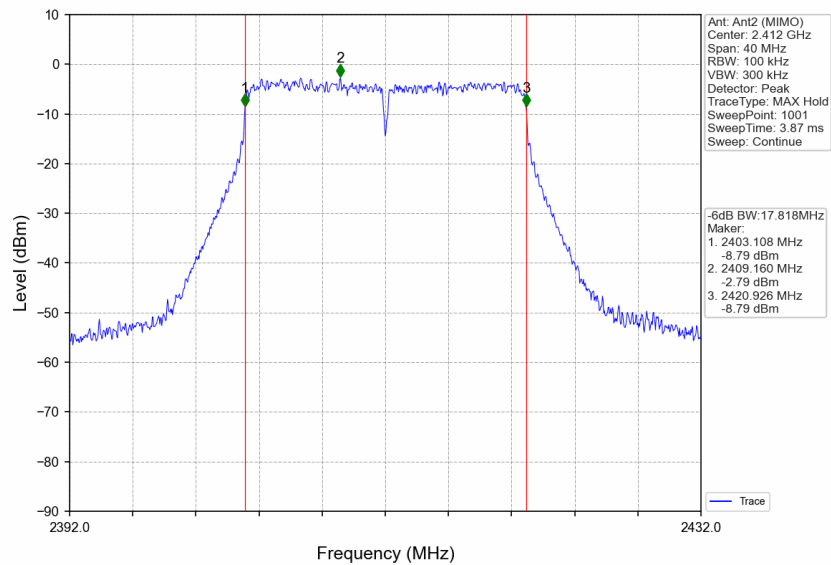
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN

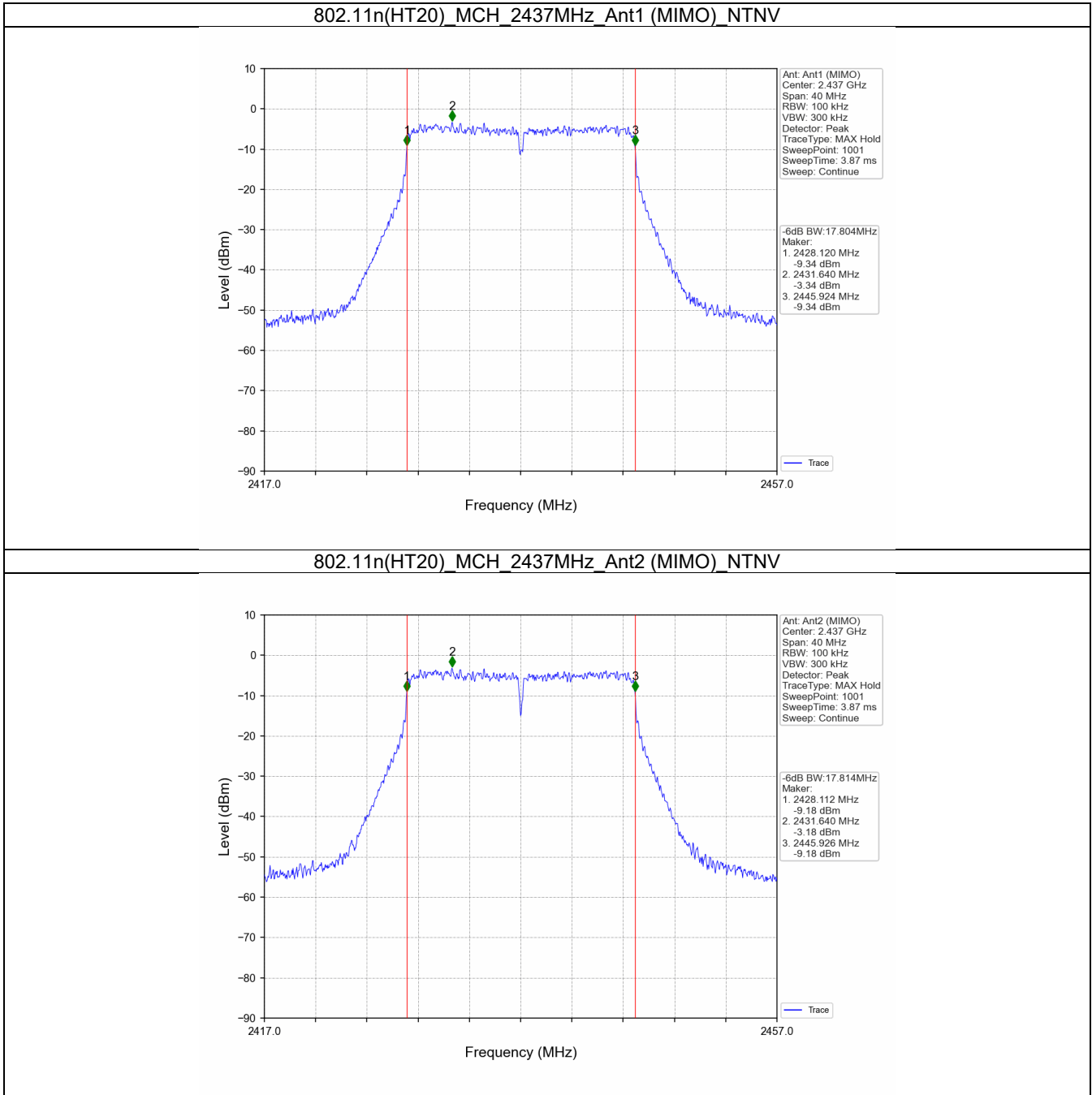


802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



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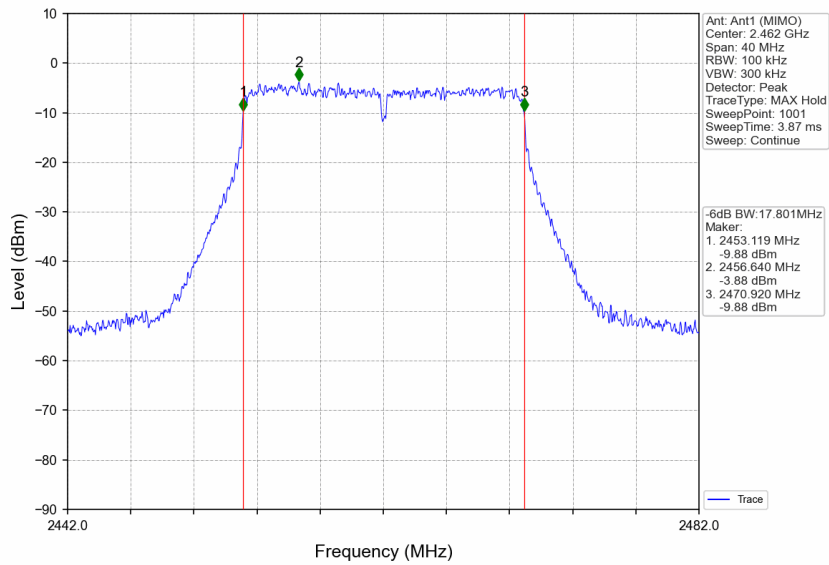
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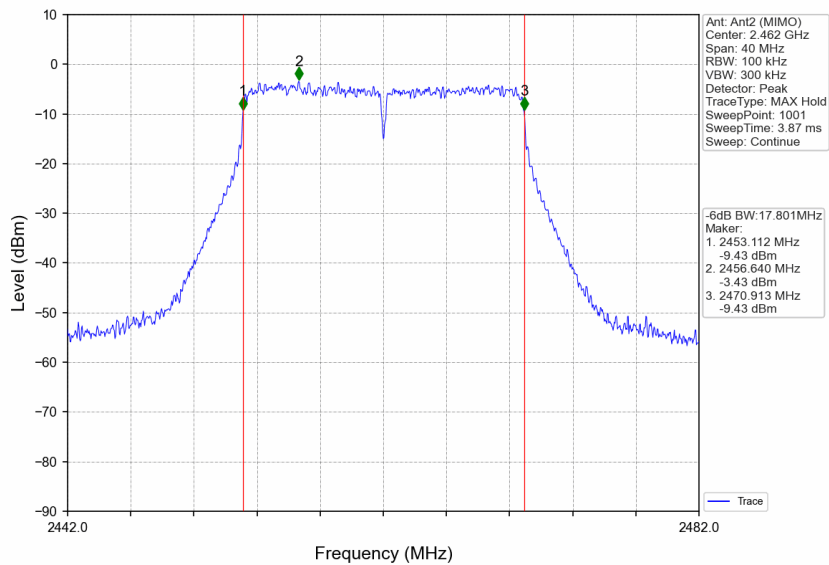
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTVN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTVN



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	14.32	13.27	/	<=30	Pass
		2437	13.86	12.81	/	<=30	Pass
		2462	13.39	12.32	/	<=30	Pass
802.11g	SISO	2412	13.70	13.29	/	<=30	Pass
		2437	13.02	12.67	/	<=30	Pass
		2462	12.52	12.19	/	<=30	Pass
802.11n (HT20)	MIMO	2412	10.93	11.27	14.11	<=30	Pass
		2437	10.52	10.76	13.65	<=30	Pass
		2462	10.04	10.47	13.27	<=30	Pass

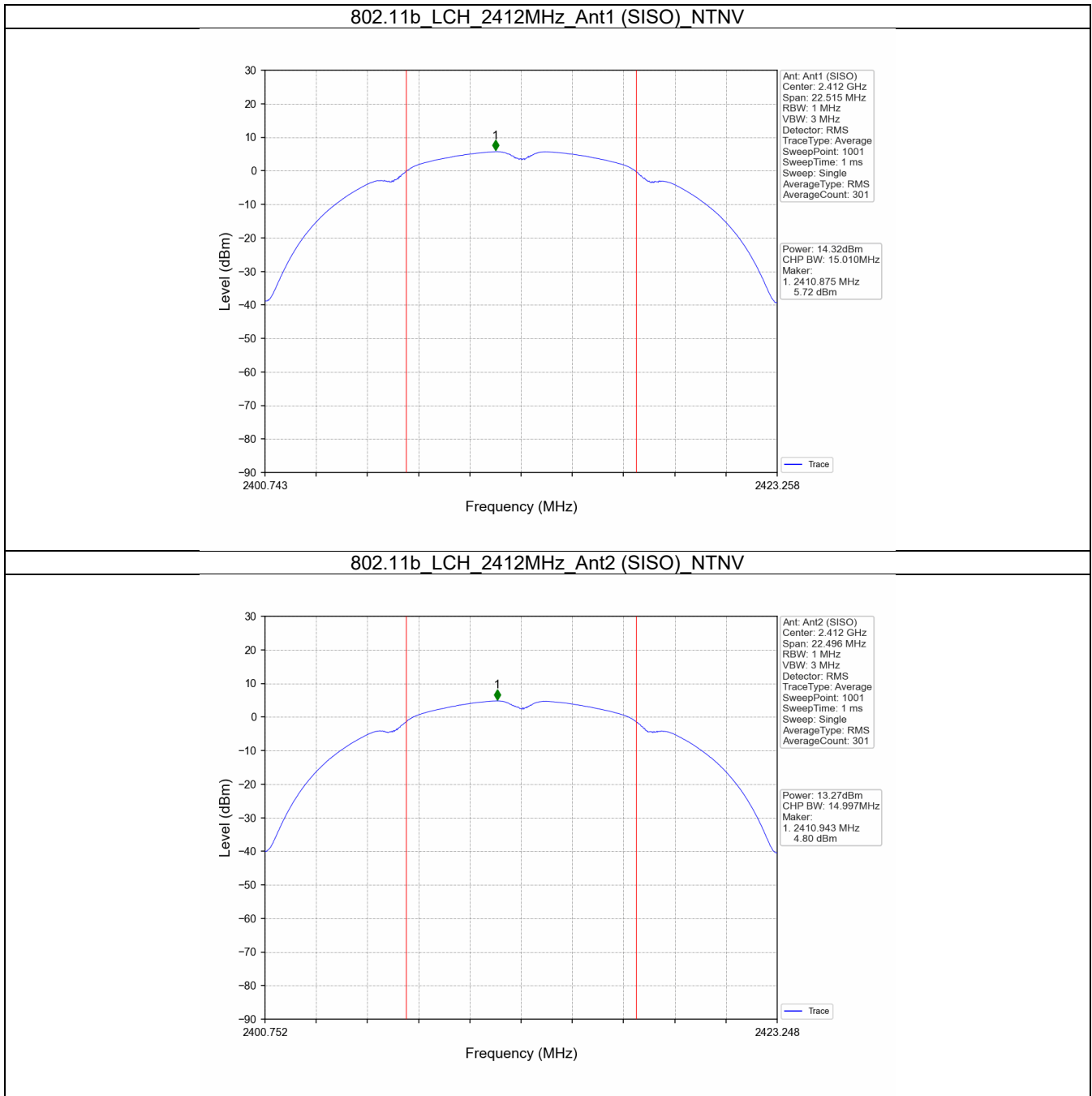
Note1: Antenna Gain: Ant1: 2.24dBi; Ant2: 2.30dBi;
 Note2: Directional Gain: 5.28dBi



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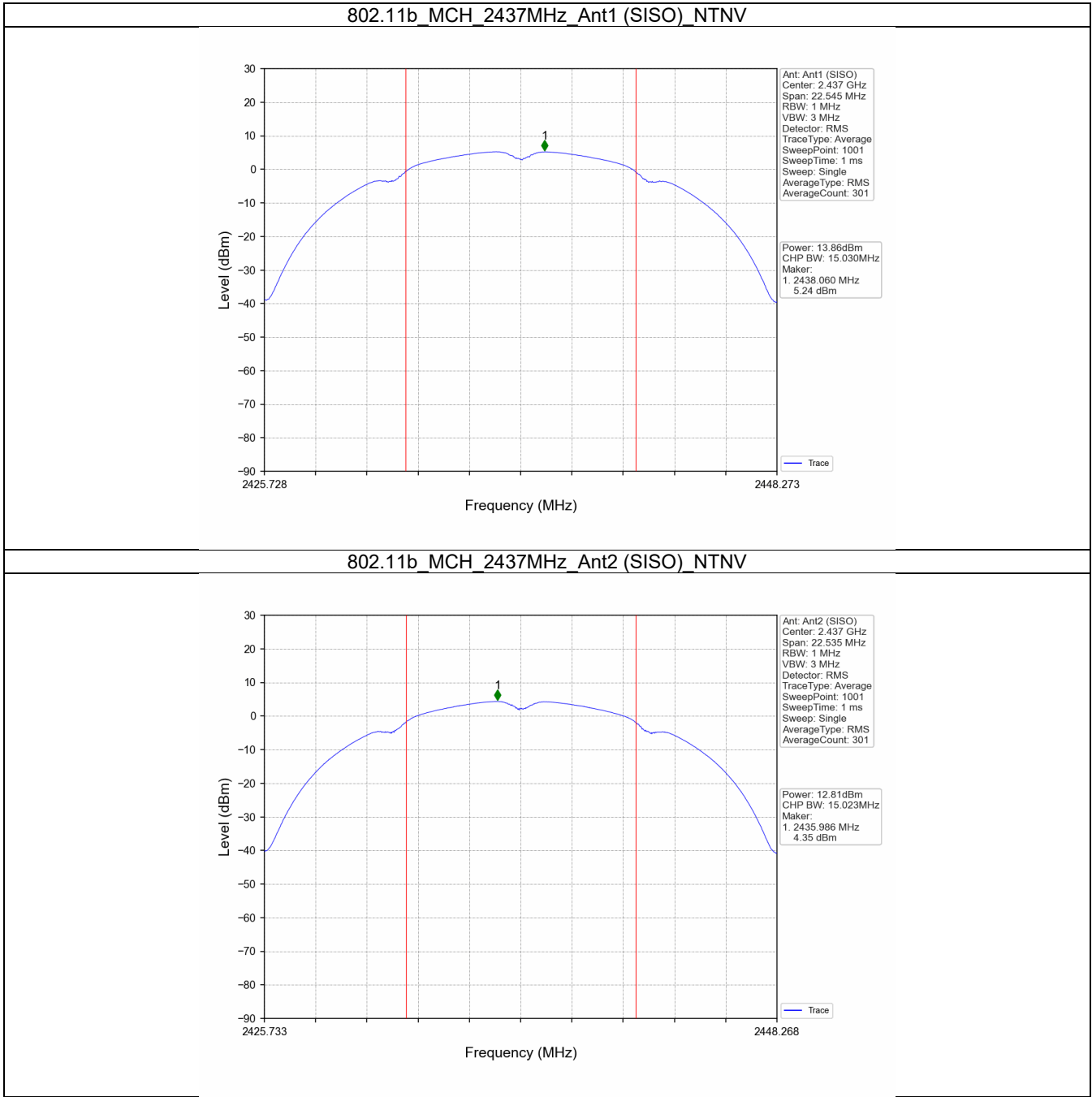
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3.1.2 Test Graph



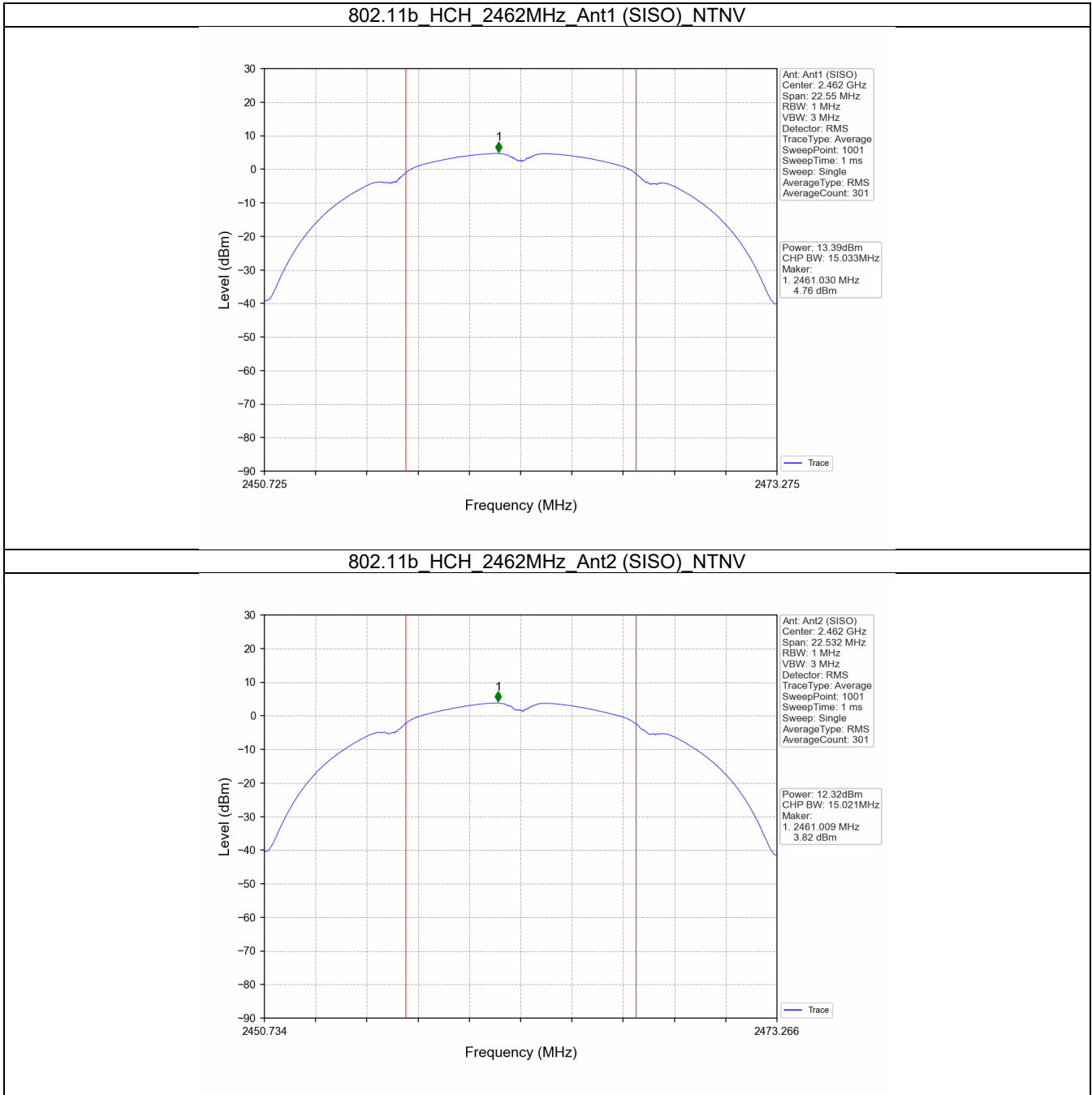
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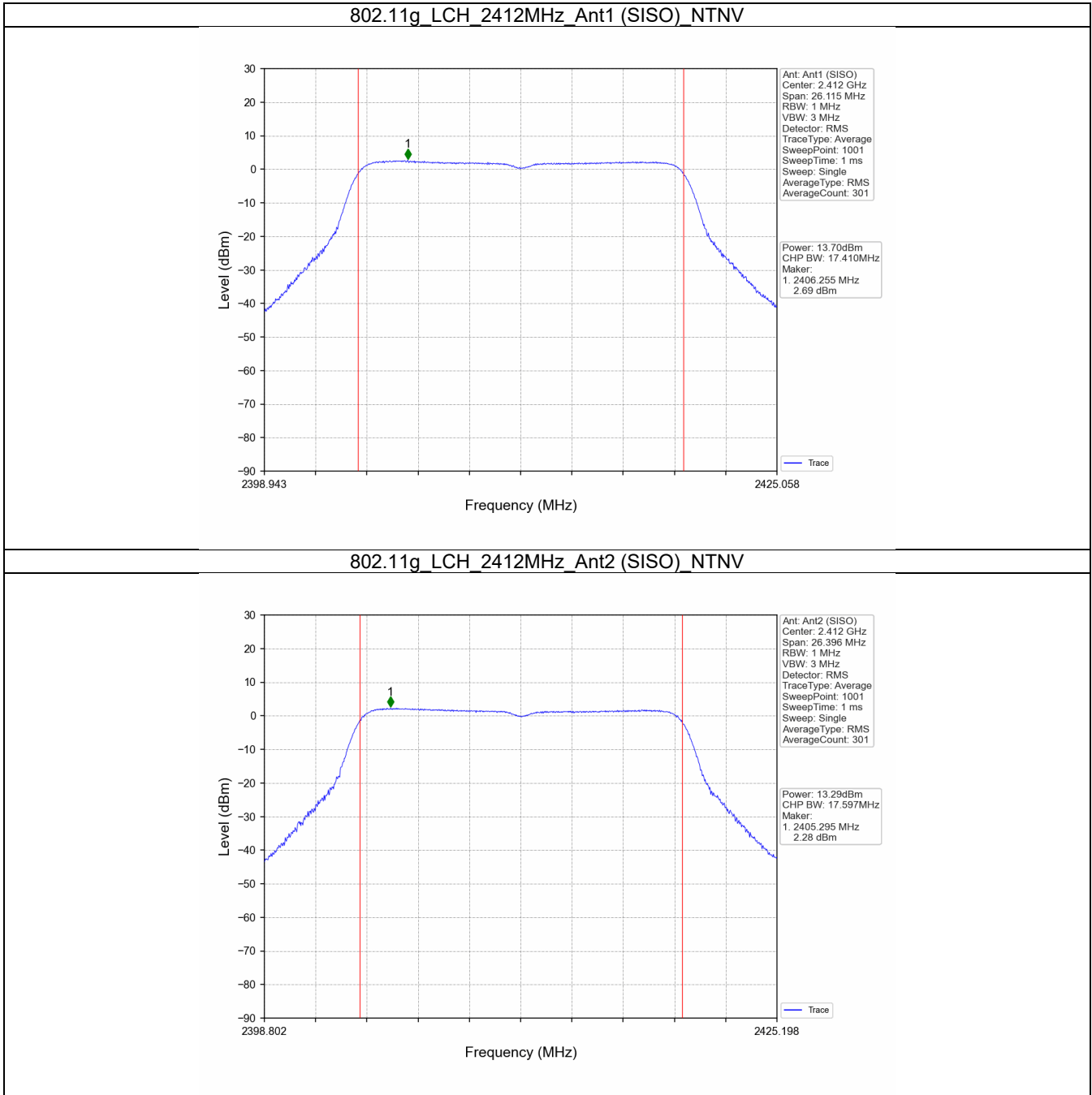
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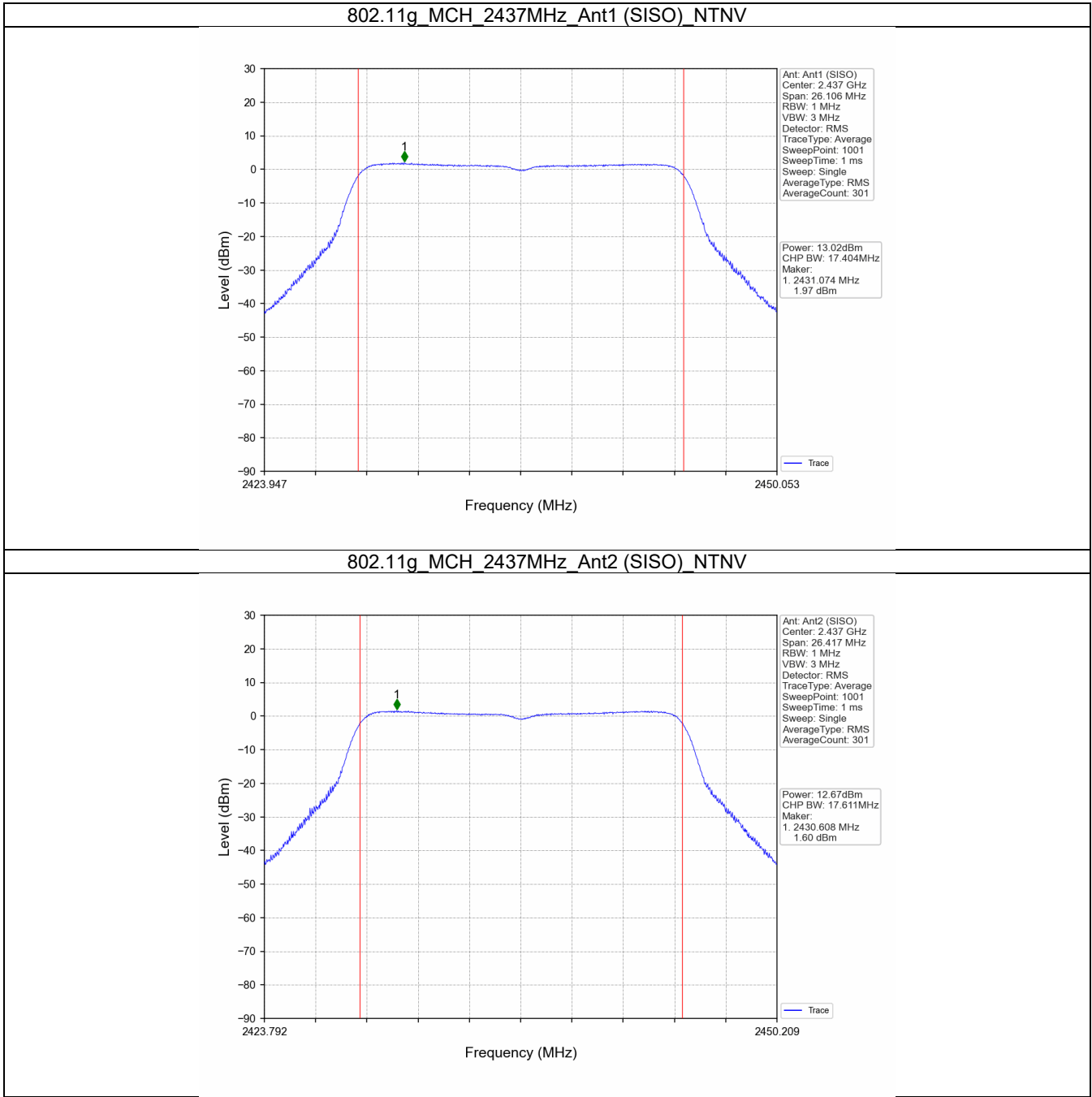
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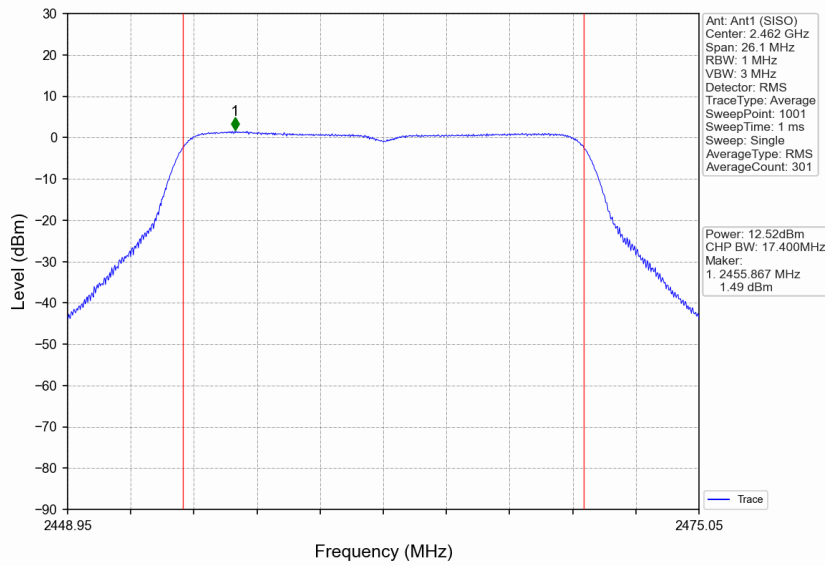
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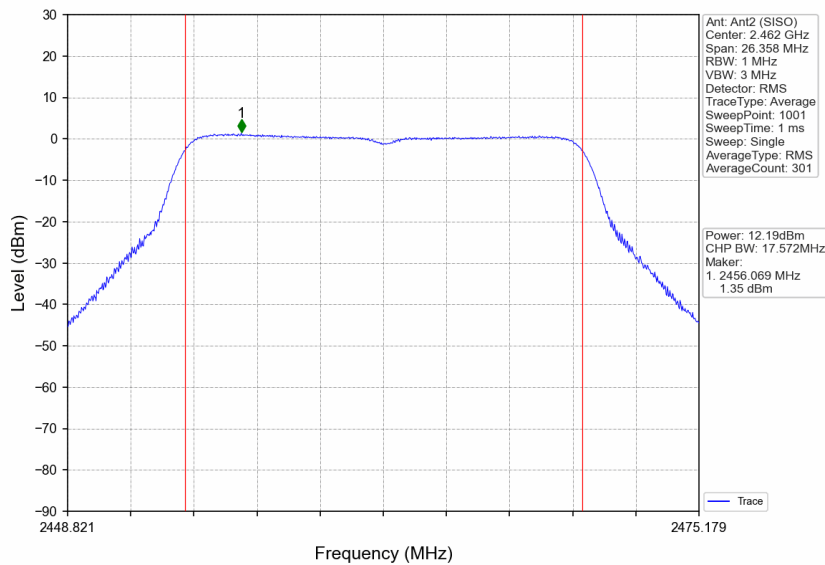
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802.11g_HCH_2462MHz_Ant1 (SISO) NTN



802.11g_HCH_2462MHz_Ant2 (SISO) NTN



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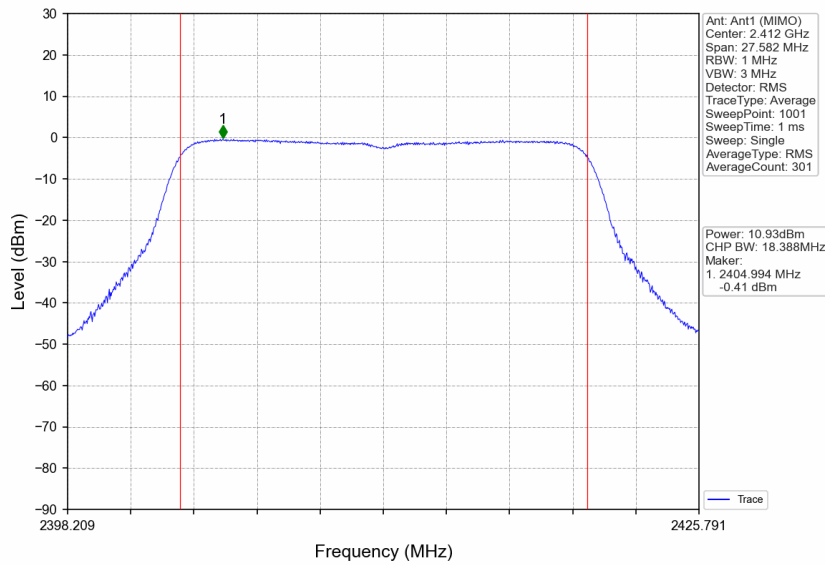
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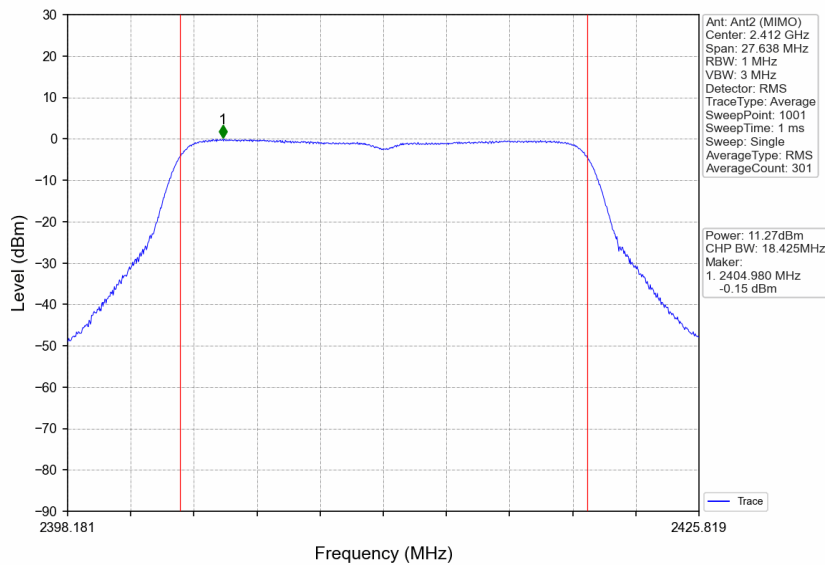
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



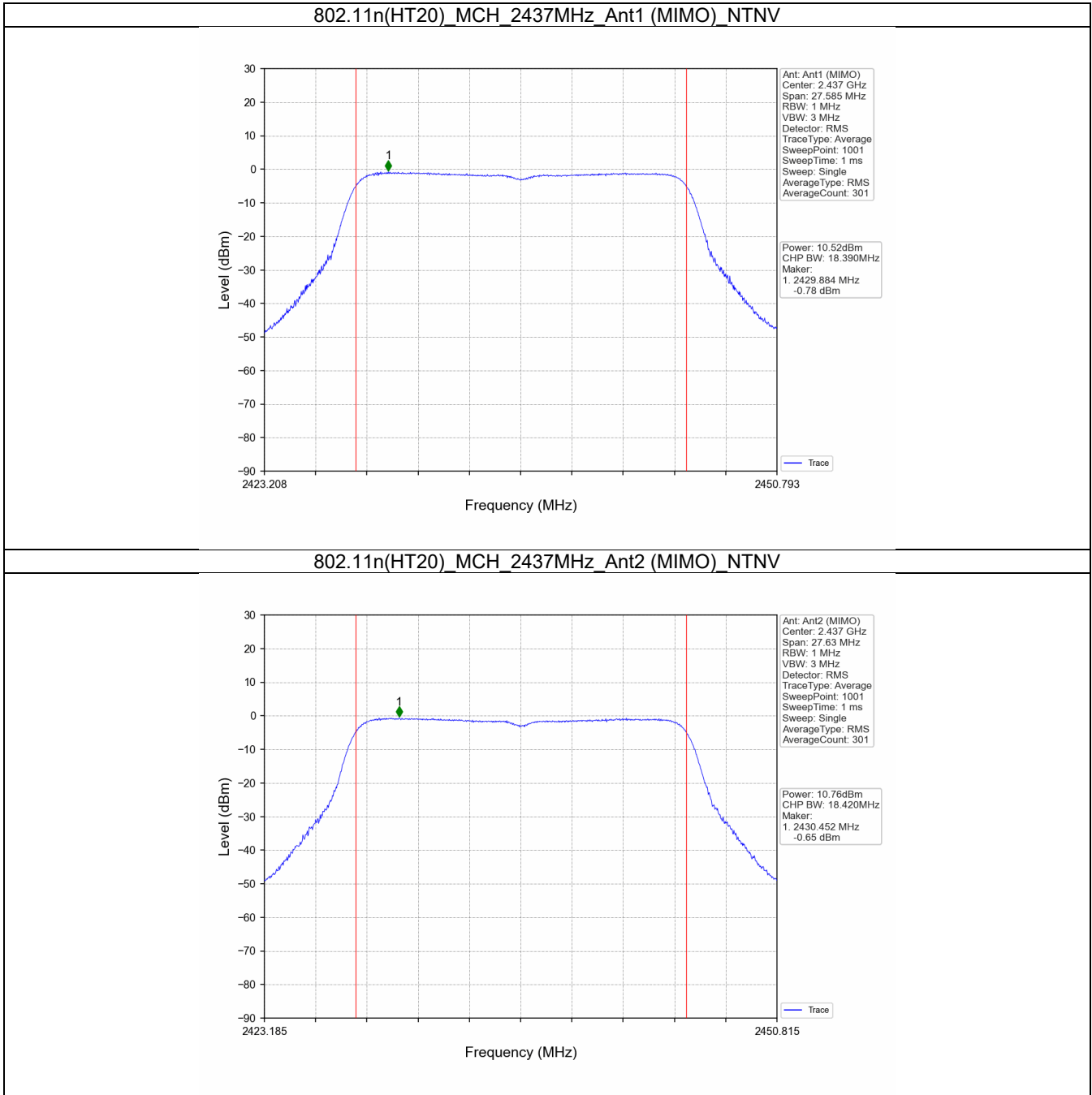
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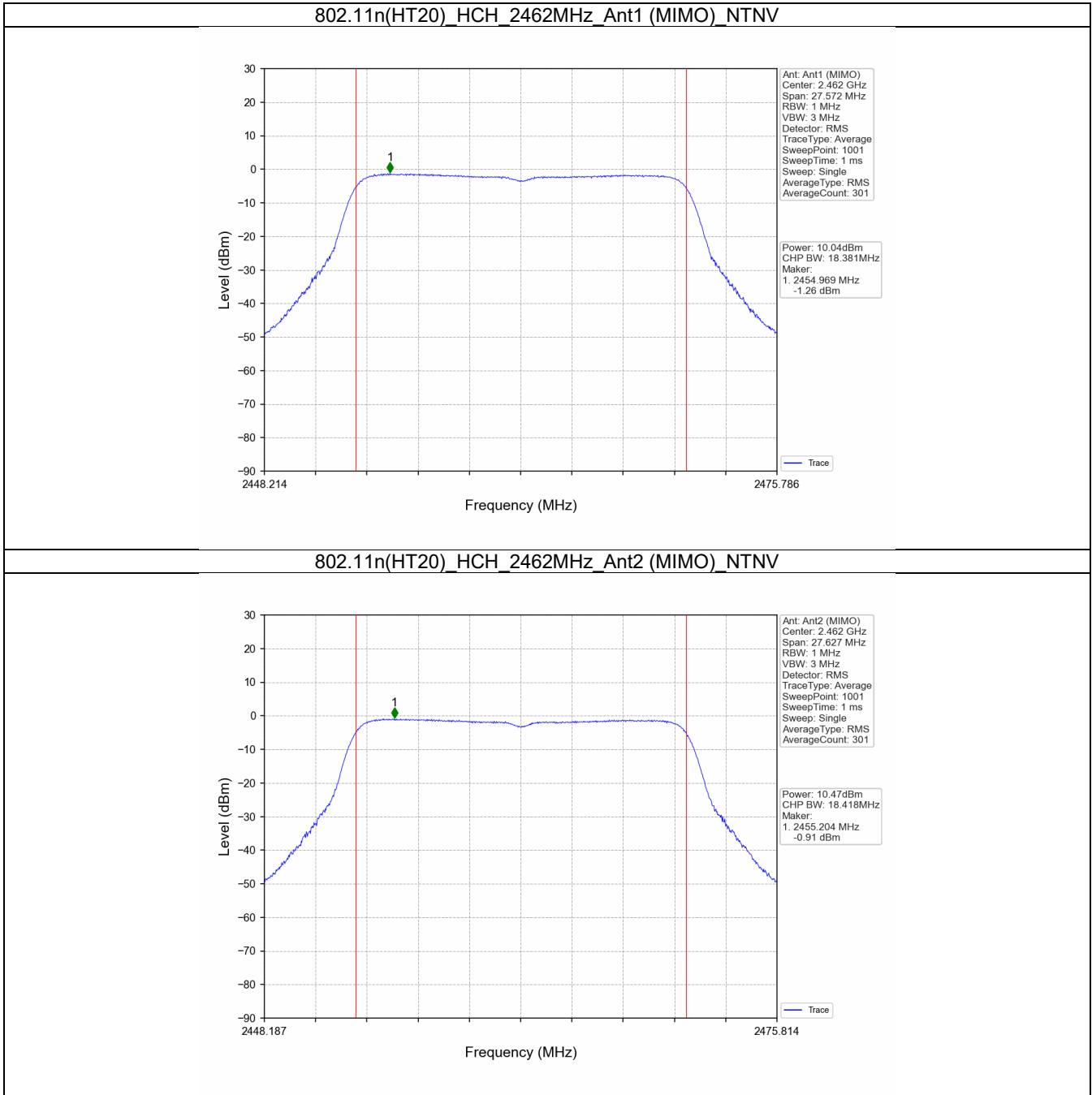
NO. 588 West Jindu Road, Songjiang District, Shanghai, China 201612
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-15.48	-16.50	/	<=8	Pass
		2437	-15.99	-16.95	/	<=8	Pass
		2462	-16.43	-17.38	/	<=8	Pass
802.11g	SISO	2412	-14.56	-15.31	/	<=8	Pass
		2437	-15.19	-15.85	/	<=8	Pass
		2462	-15.90	-16.20	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-16.30	-15.98	-13.21	<=8	Pass
		2437	-16.78	-17.11	-14.15	<=8	Pass
		2462	-17.25	-17.73	-14.95	<=8	Pass

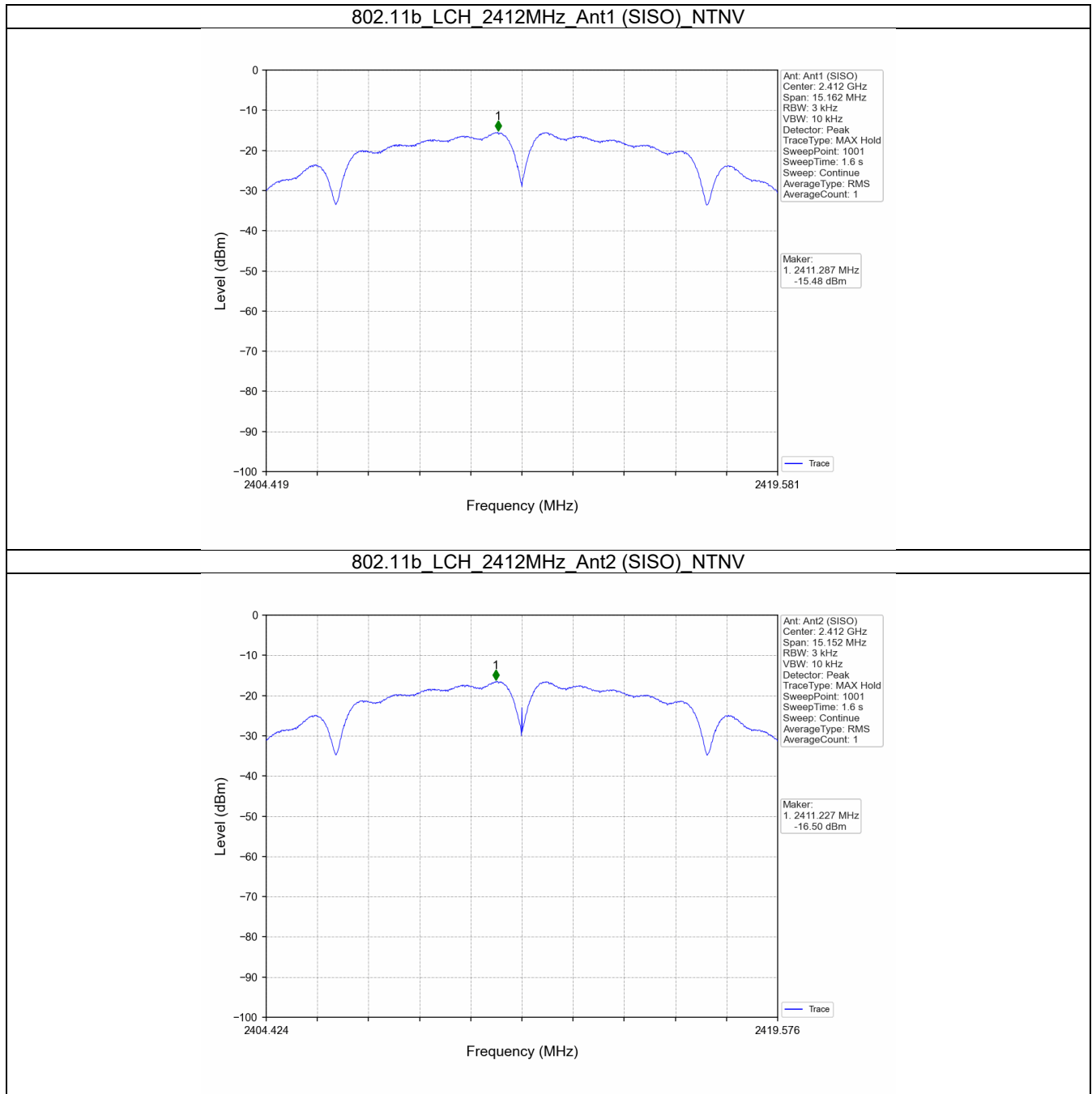
Note1: Antenna Gain: Ant1: 2.24dBi; Ant2: 2.30dBi;



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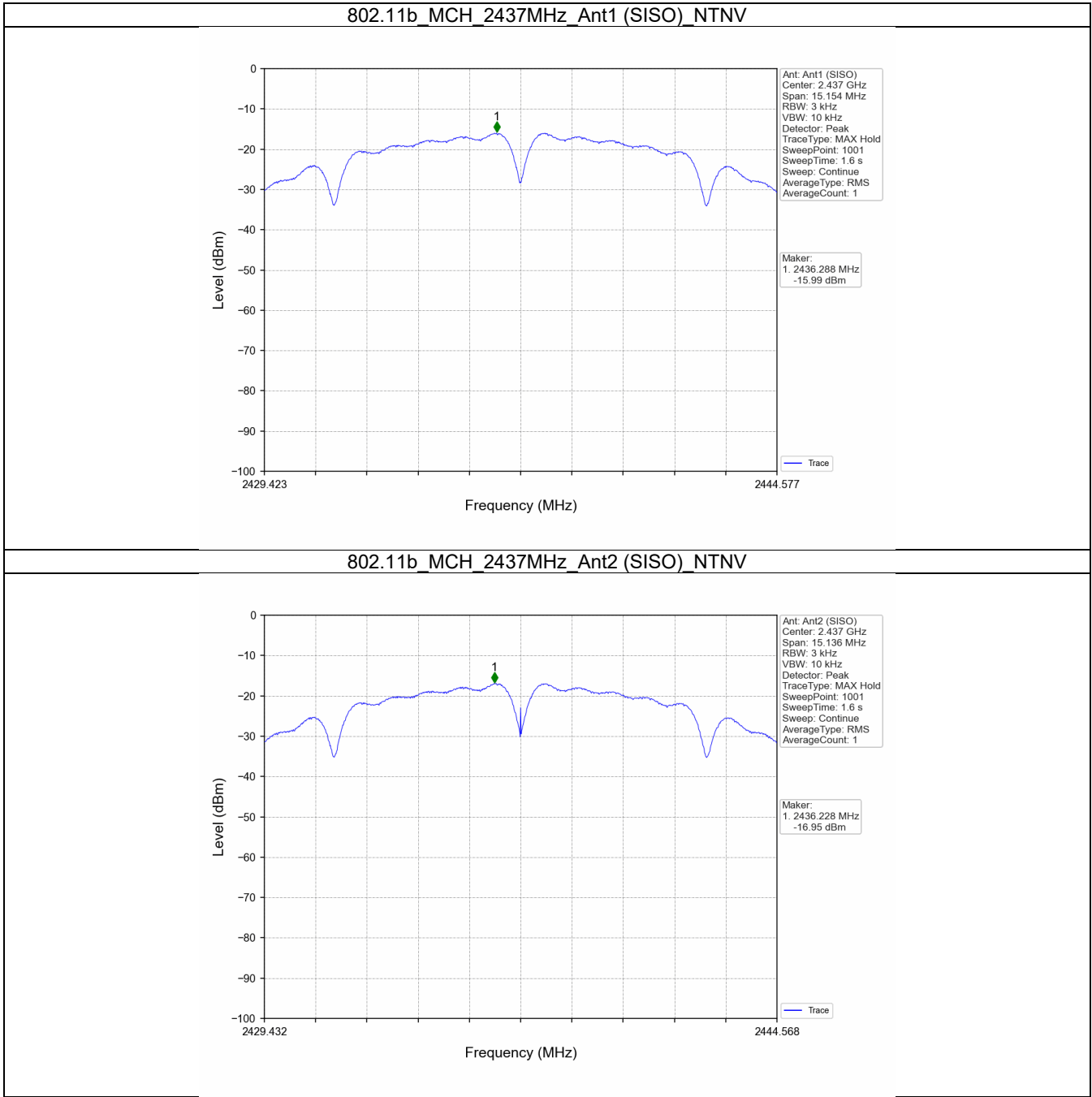
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4.1.2 Test Graph



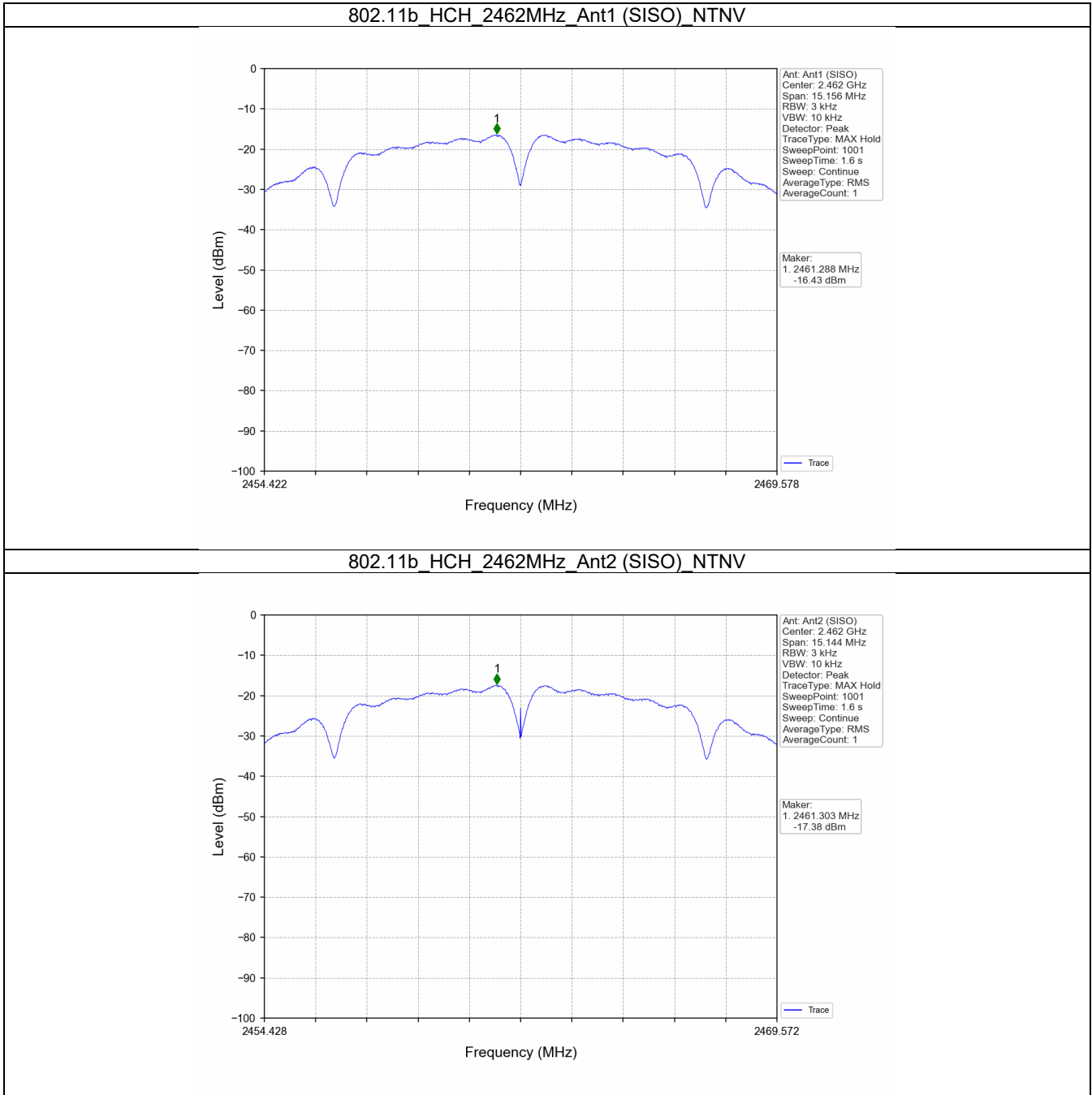
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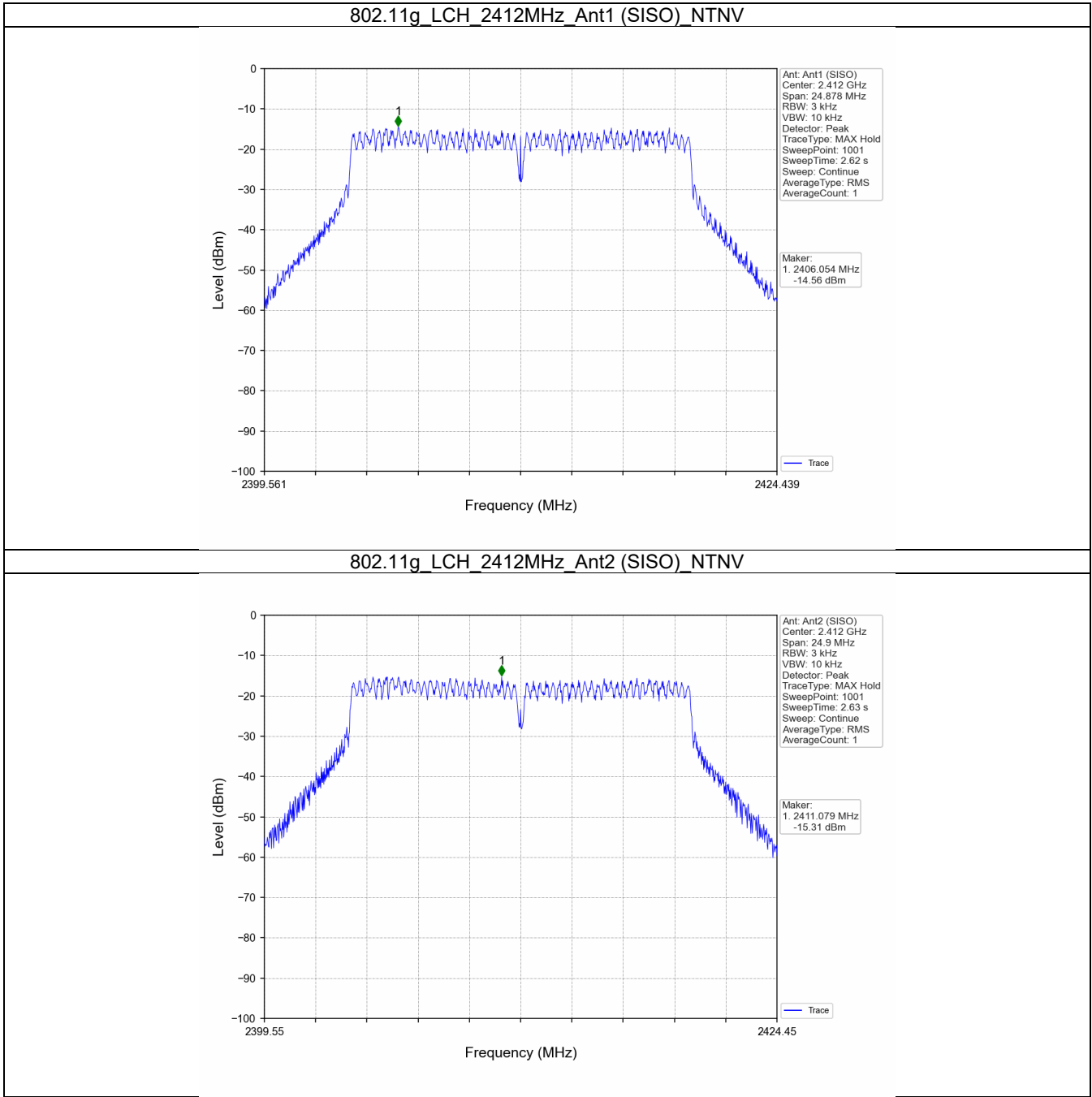
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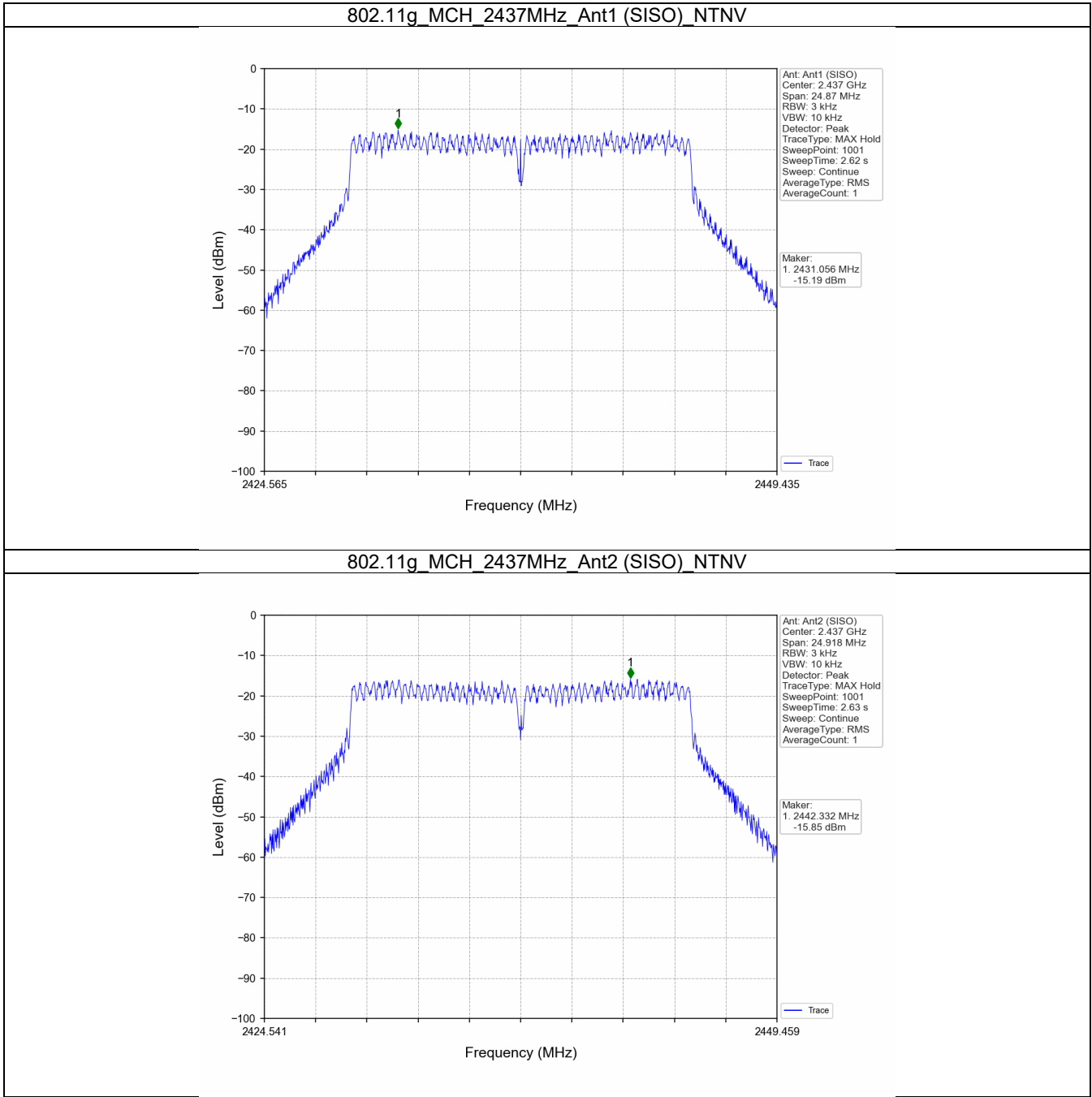
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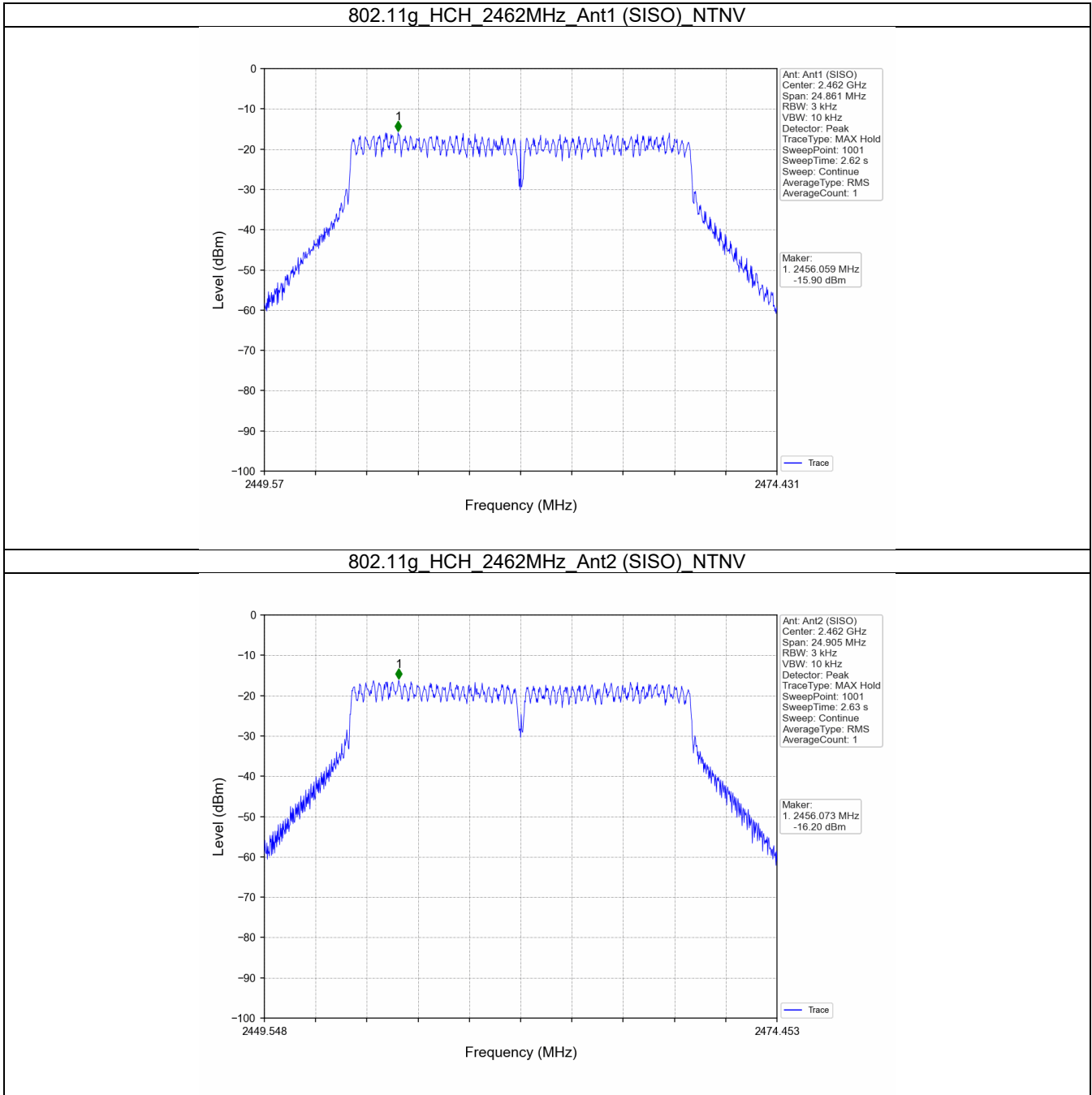
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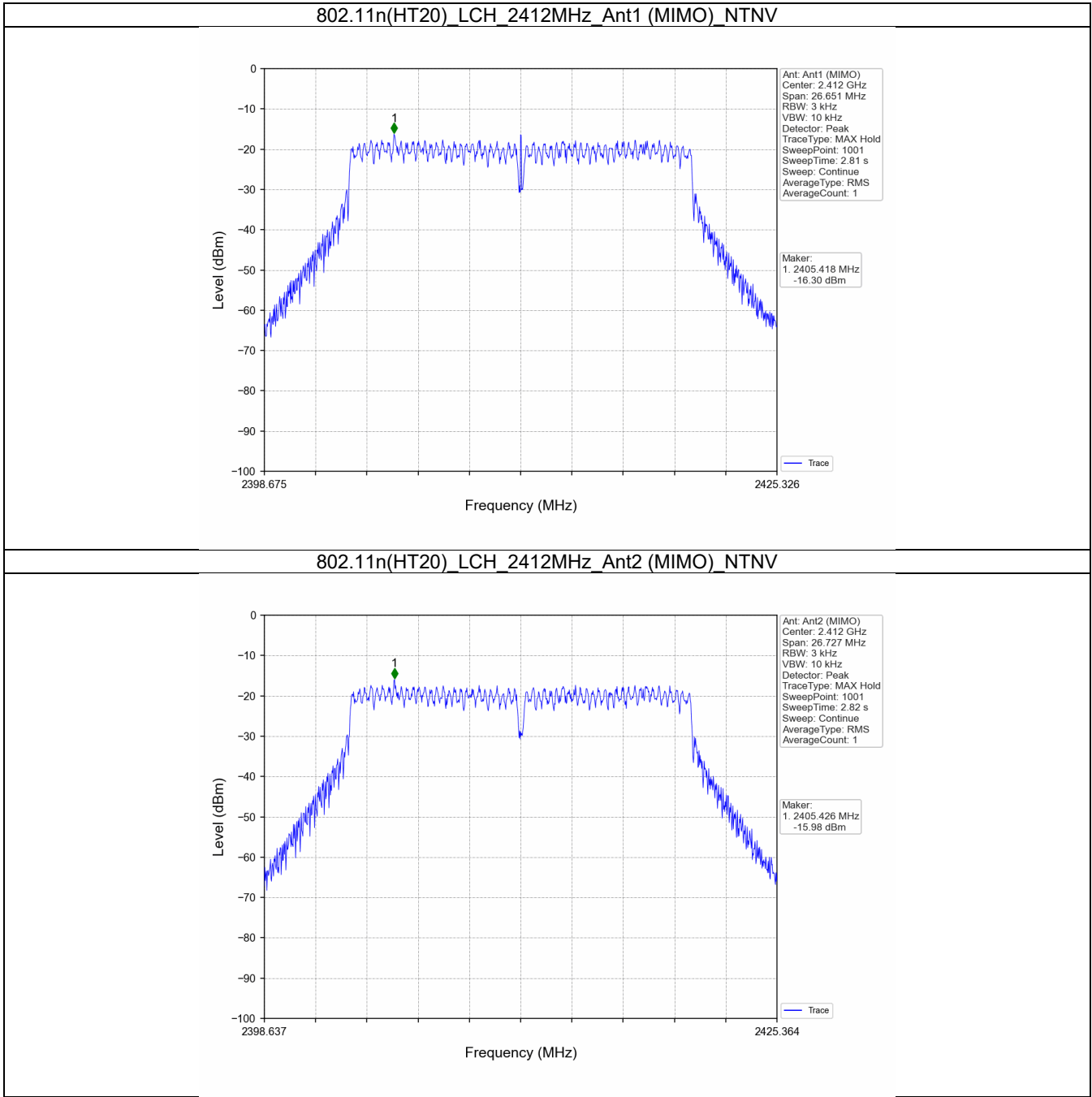
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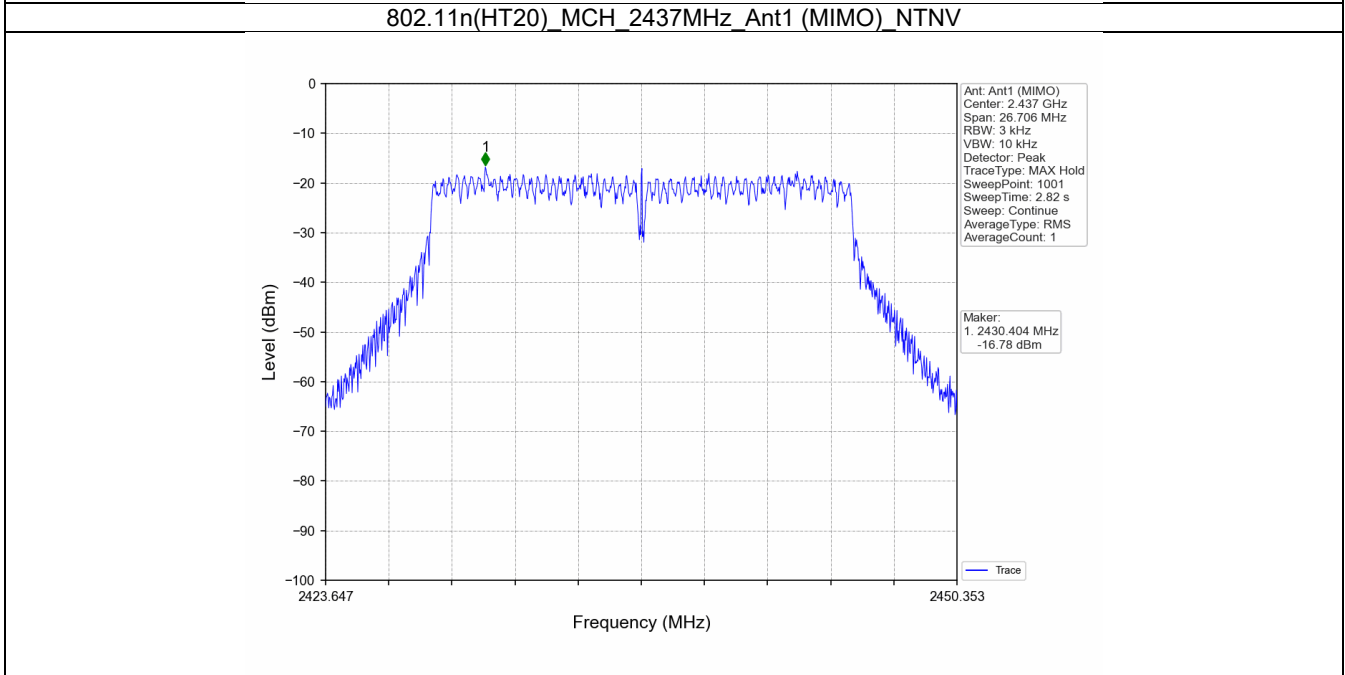
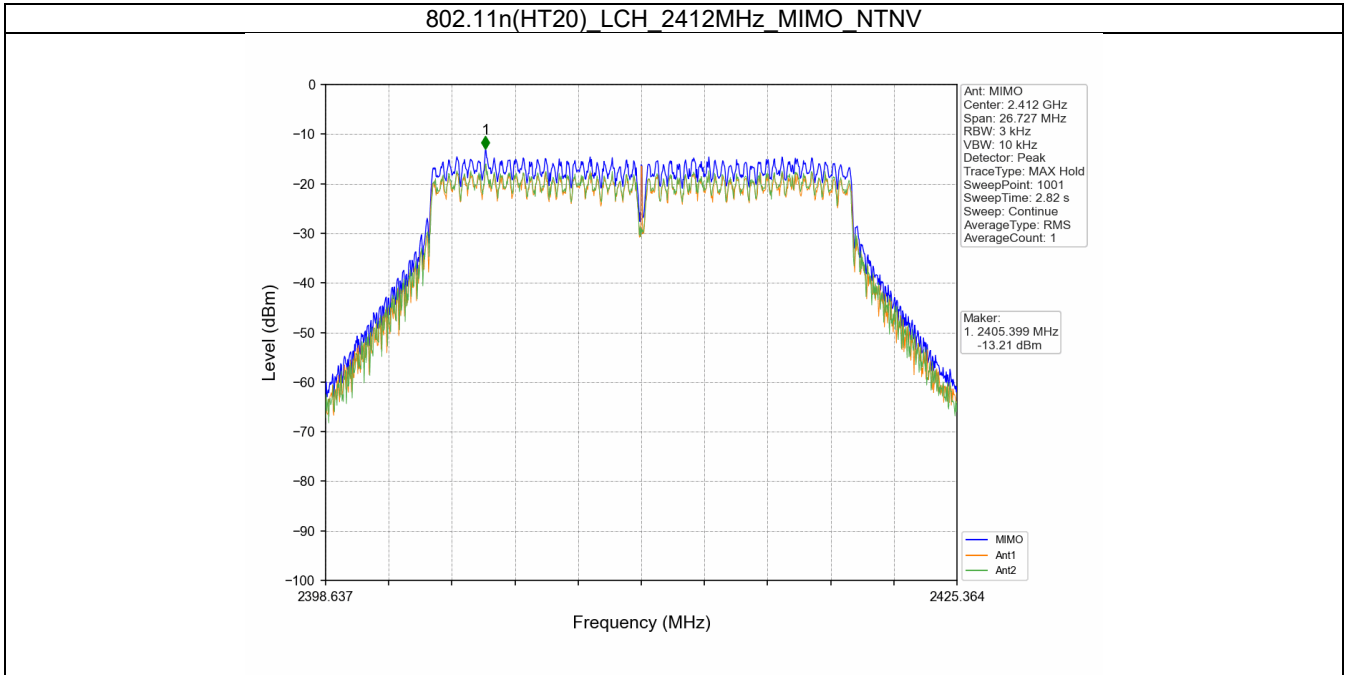
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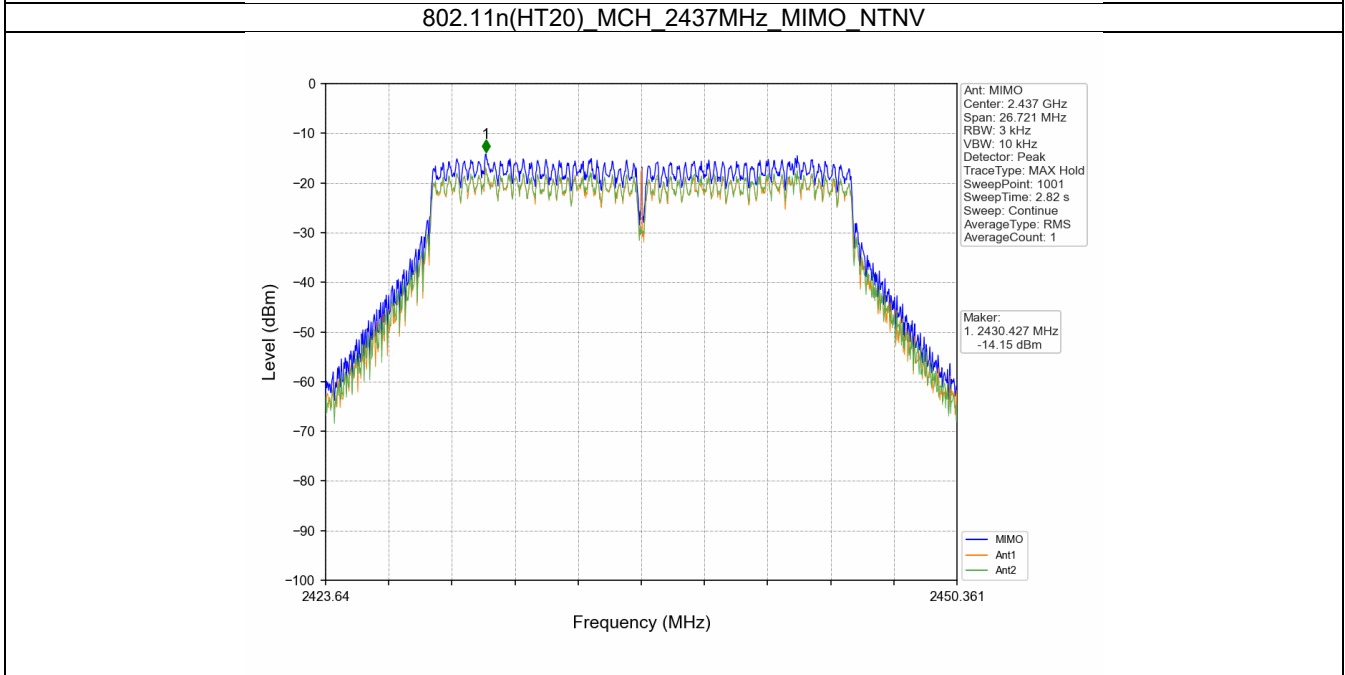
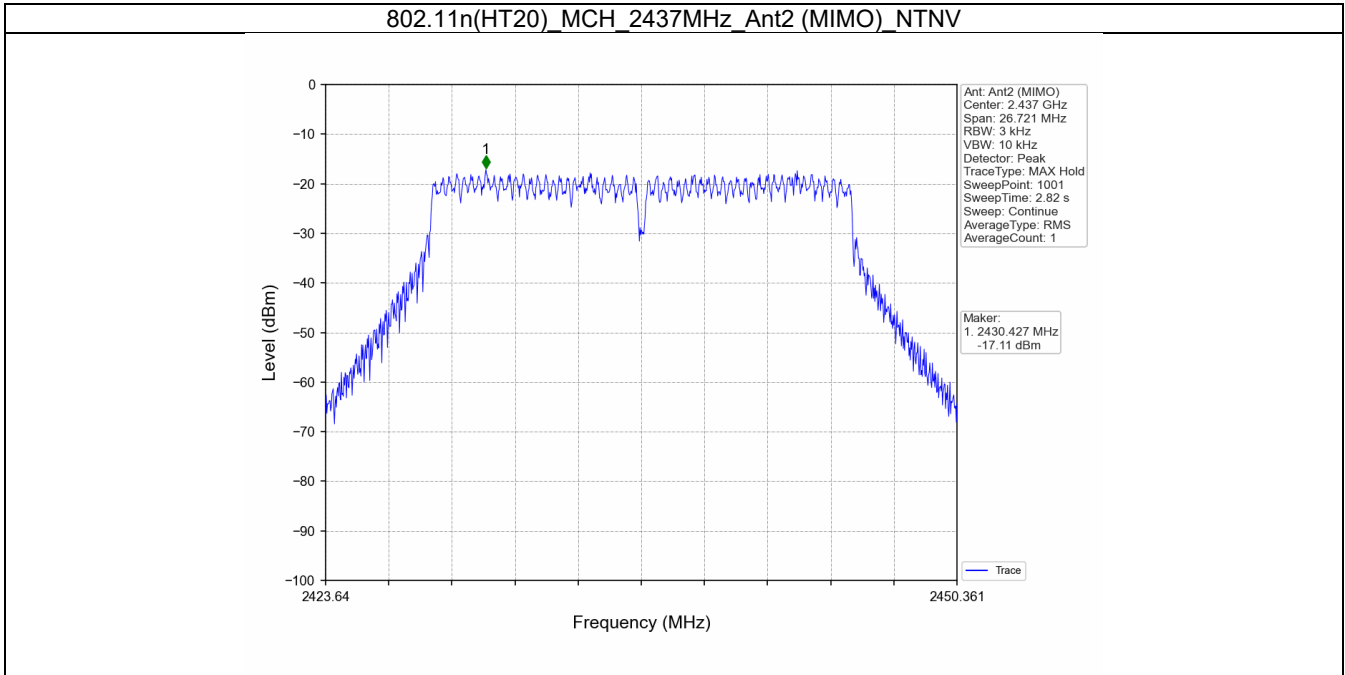
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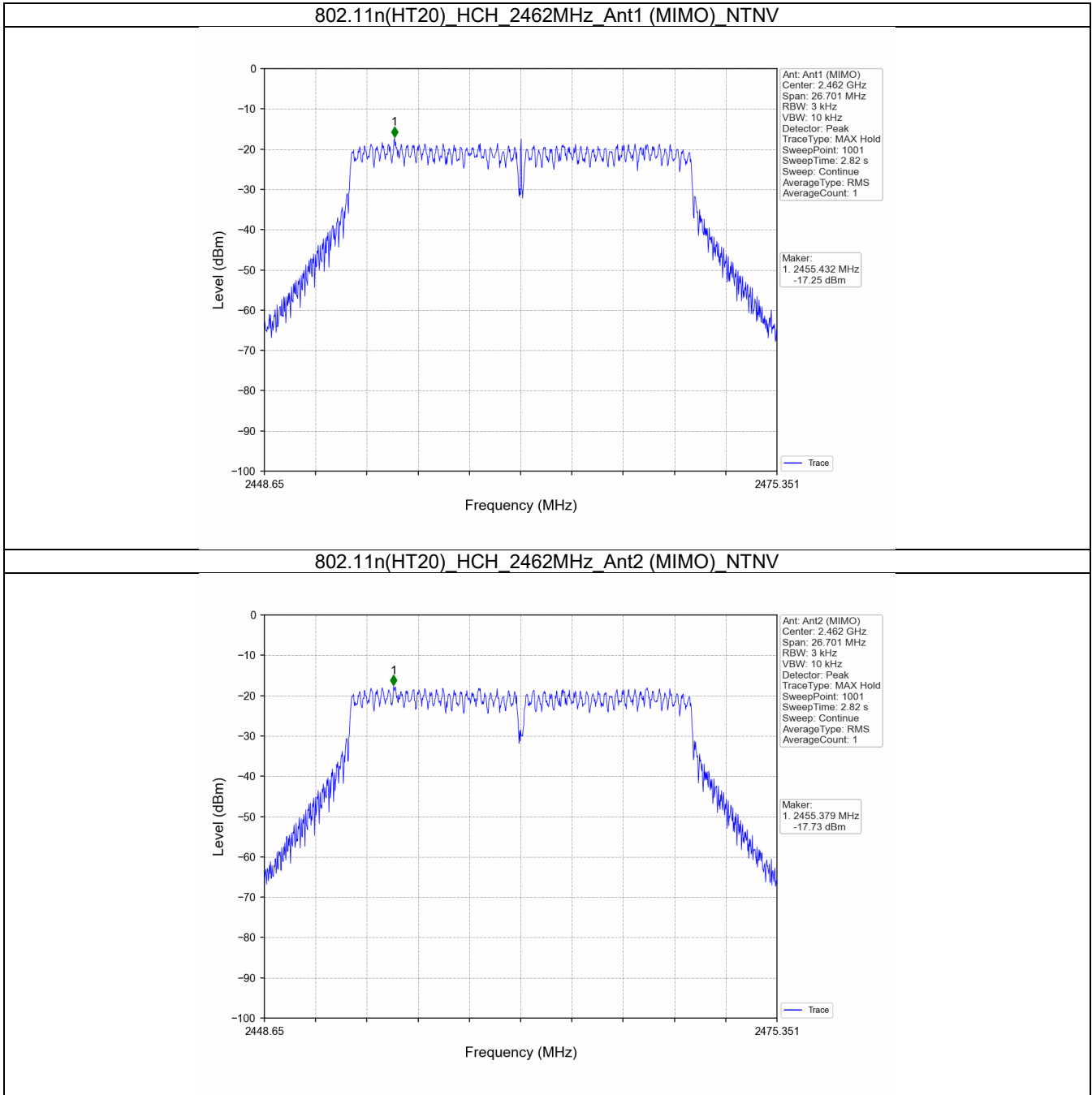
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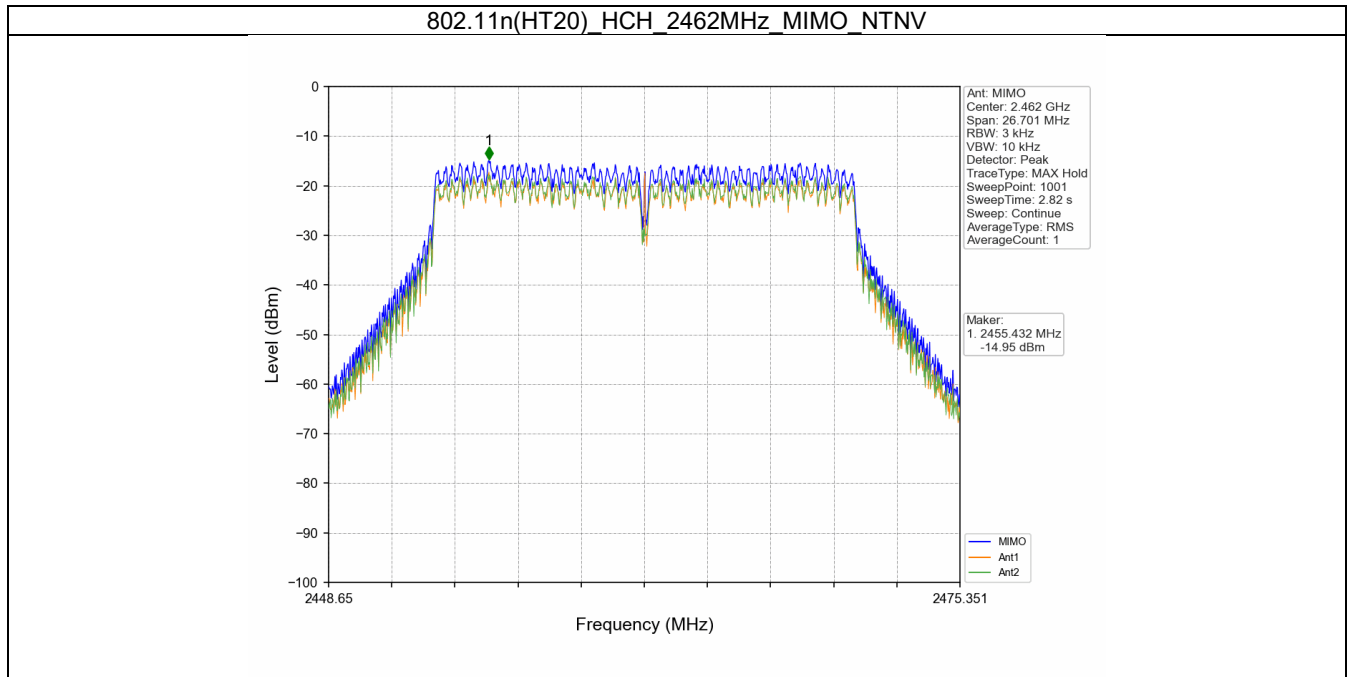
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	4.34
			2	-8.38
		2437	1	3.83
			2	2.92
		2462	1	3.41
			2	2.42
802.11g	SISO	2412	1	-0.37
			2	-0.99
		2437	1	-1.06
			2	-1.64
		2462	1	-1.47
			2	-2.15
802.11n (HT20)	MIMO	2412	1	-3.07
			2	-2.60
		2437	1	-3.34
			2	-3.16
		2462	1	-3.81
			2	-3.40

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

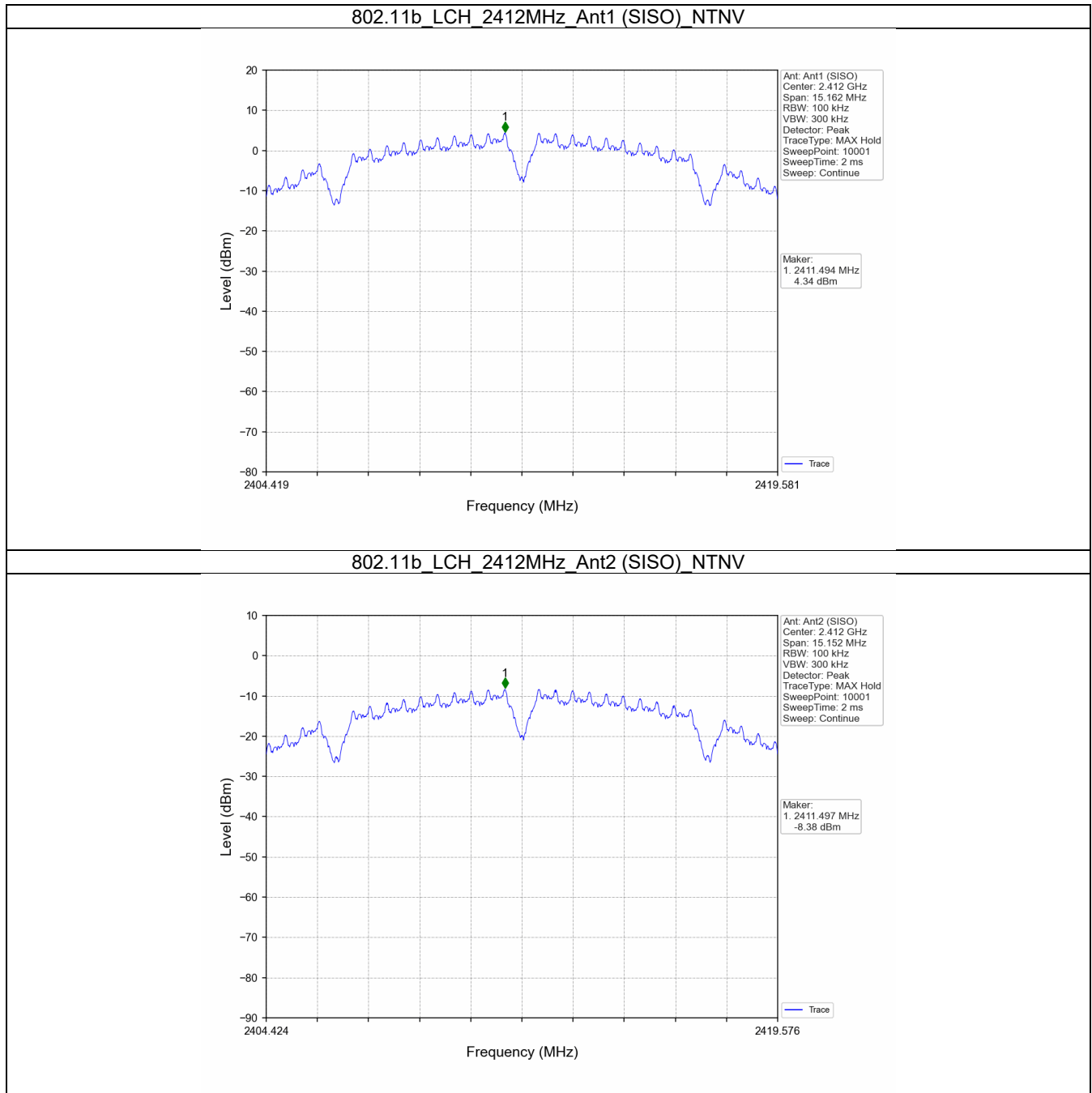
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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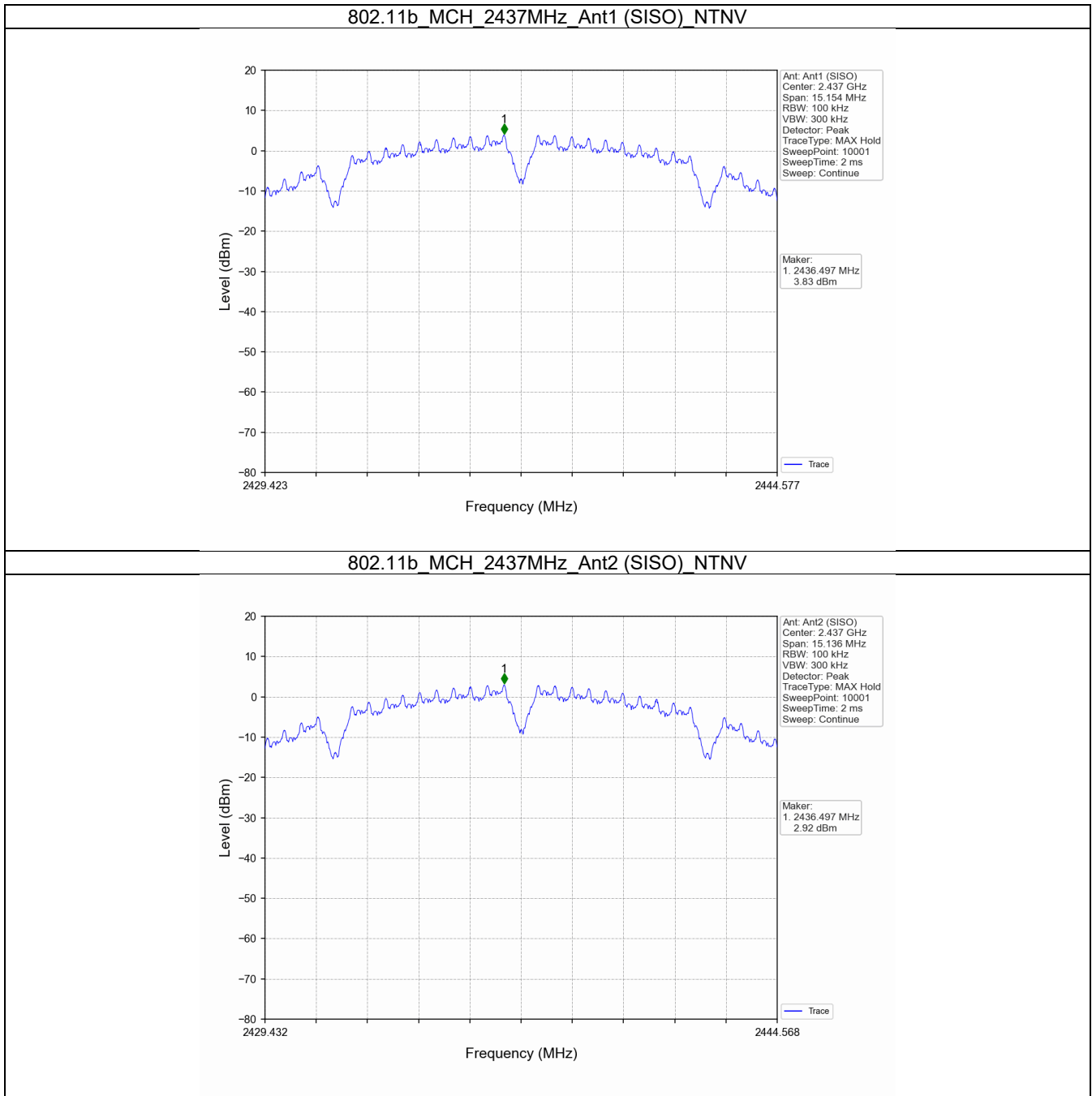
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5.1.2 Test Graph



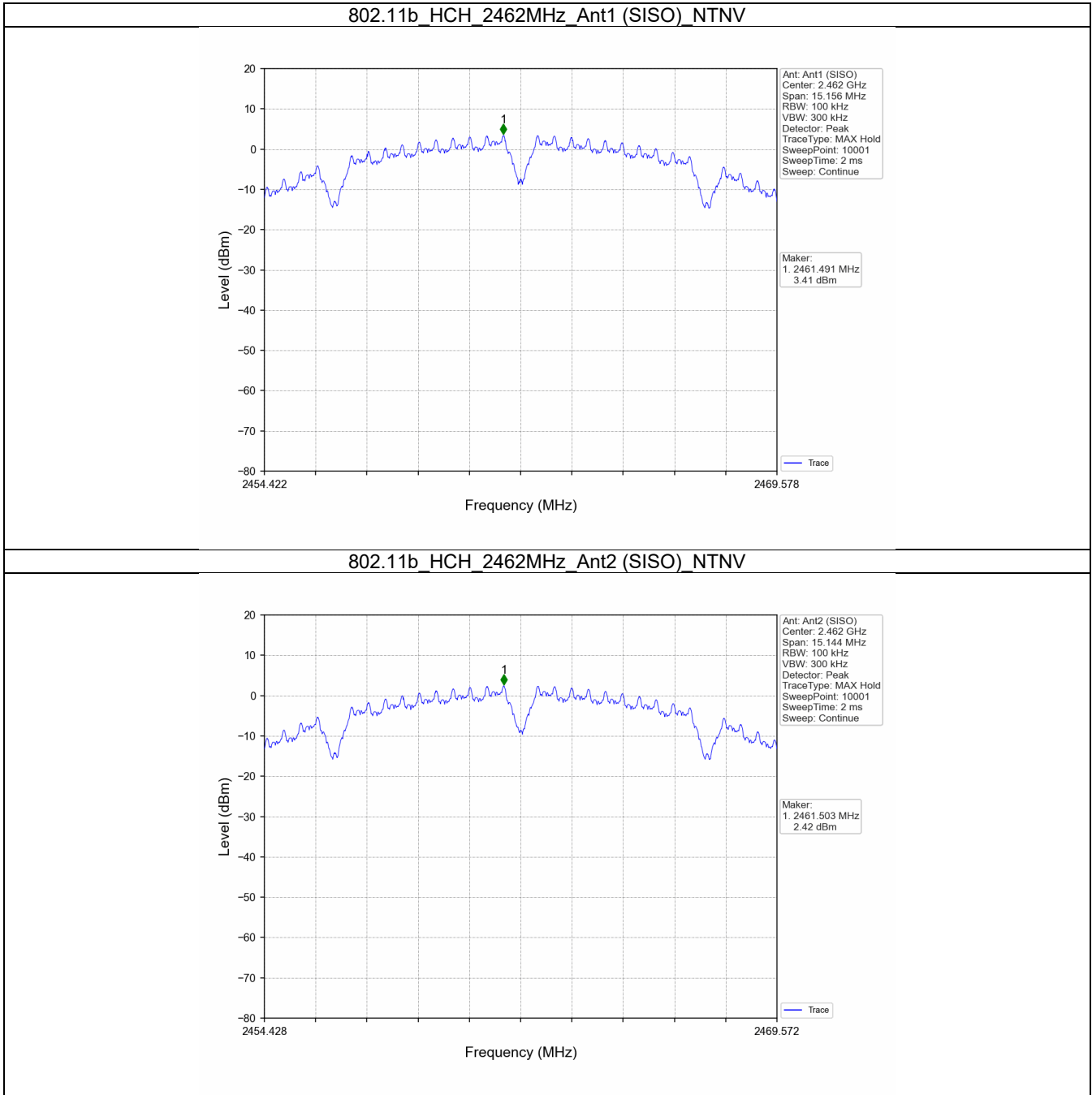
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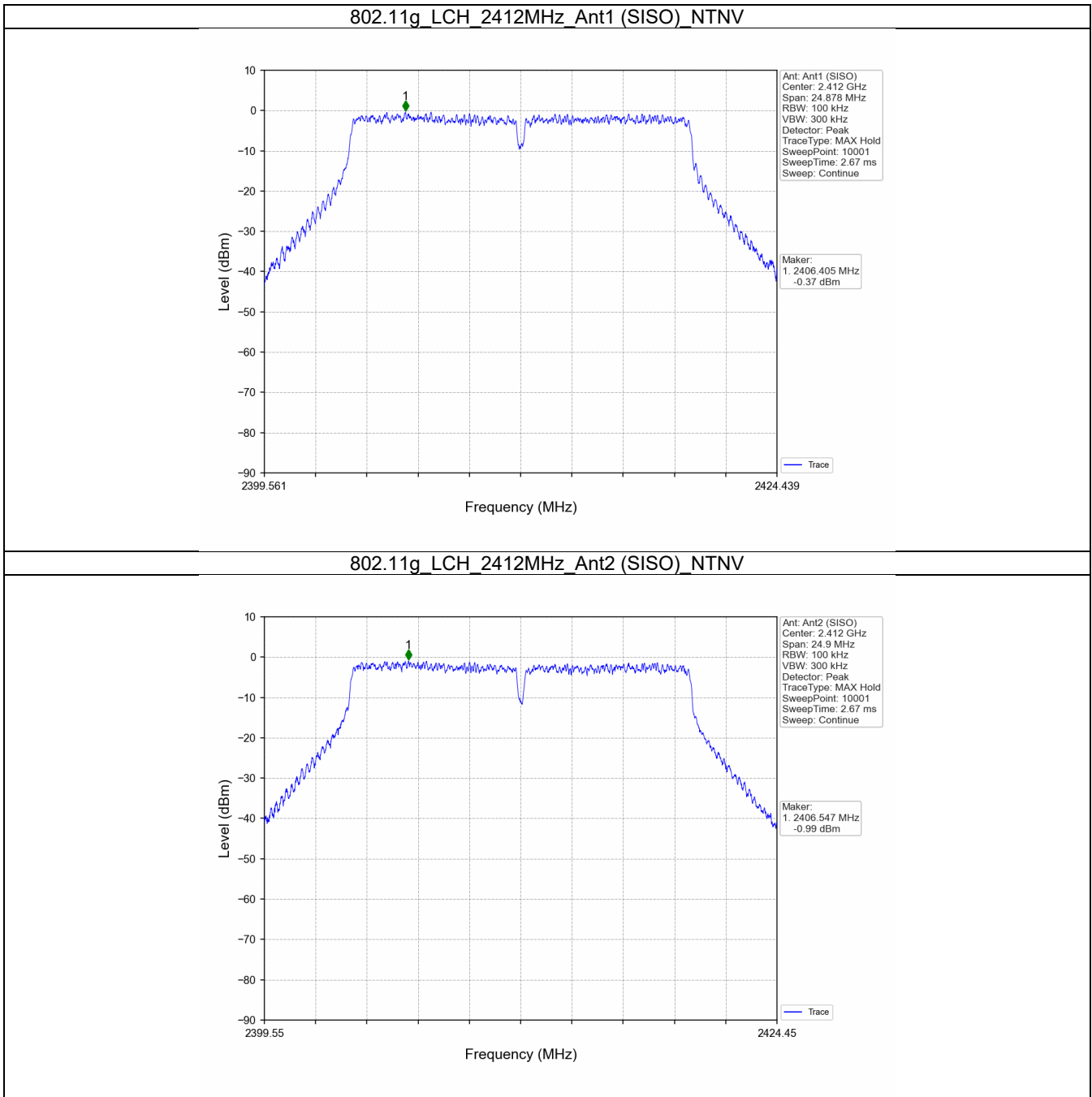
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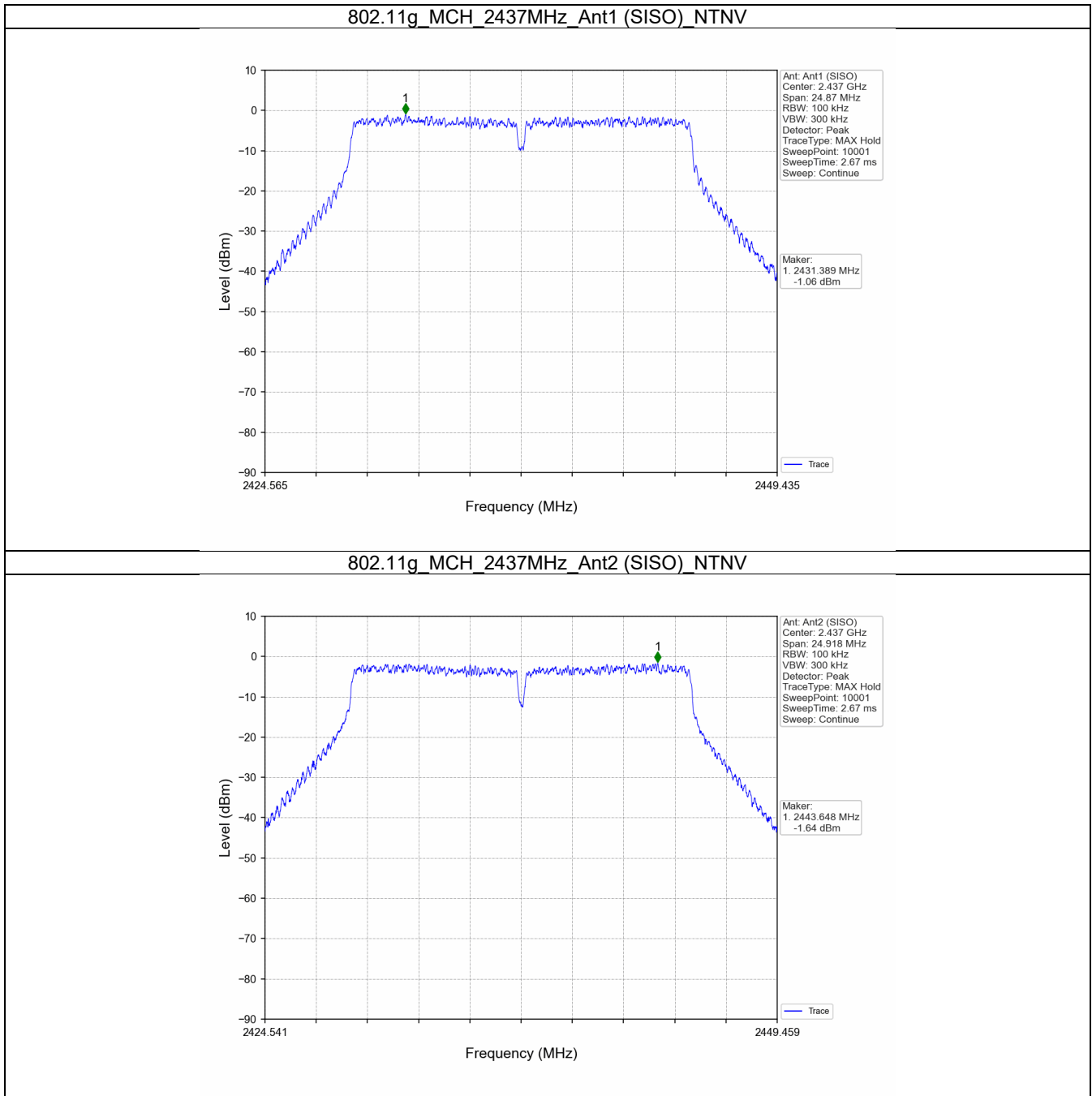
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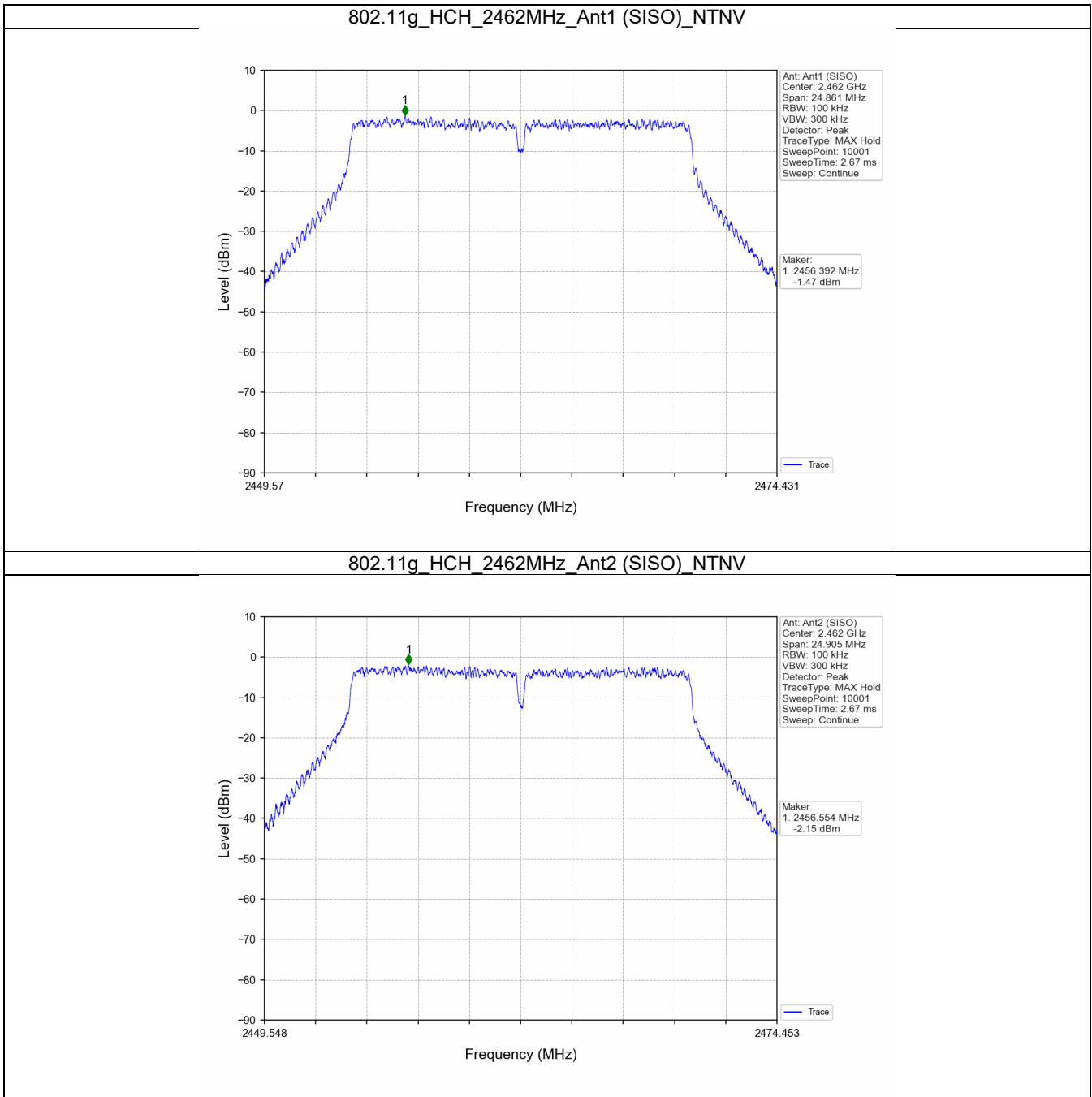
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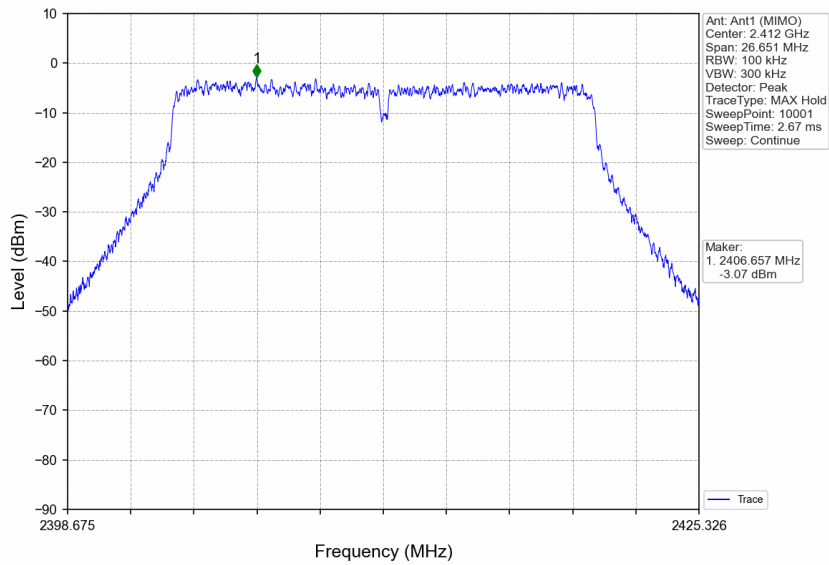
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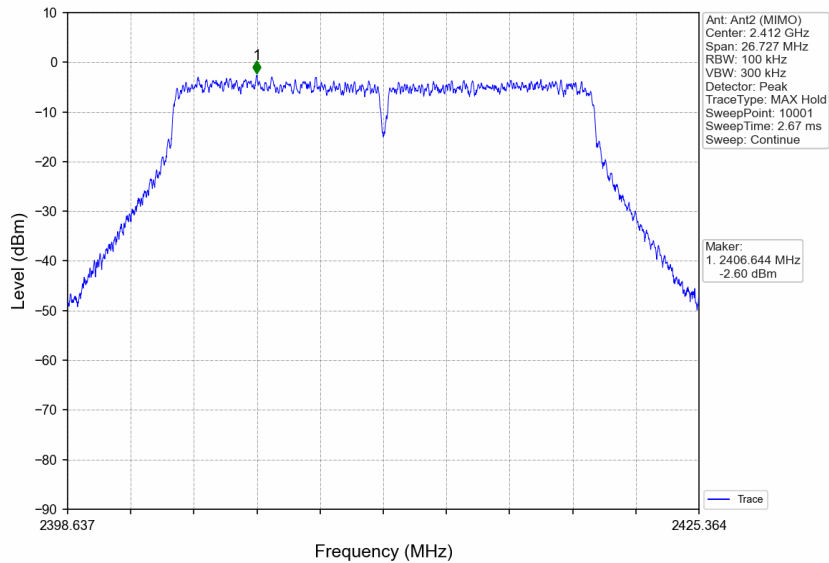
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



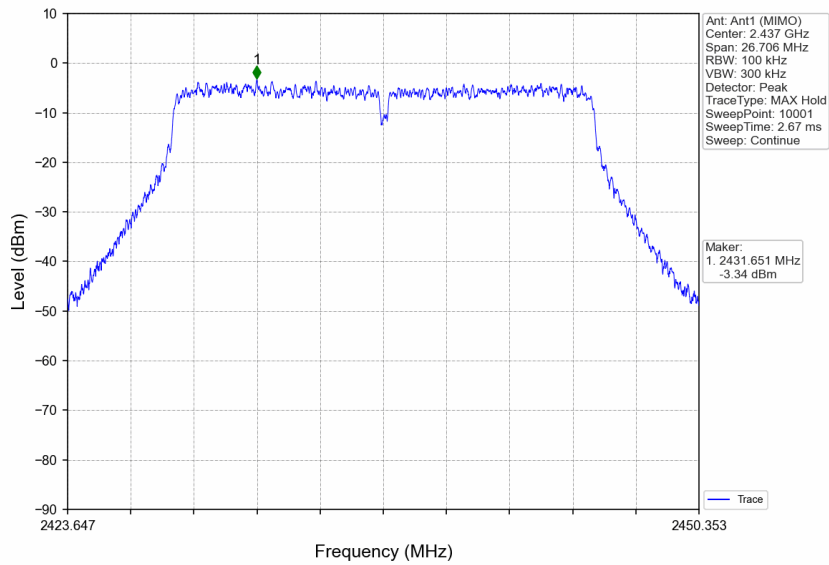
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



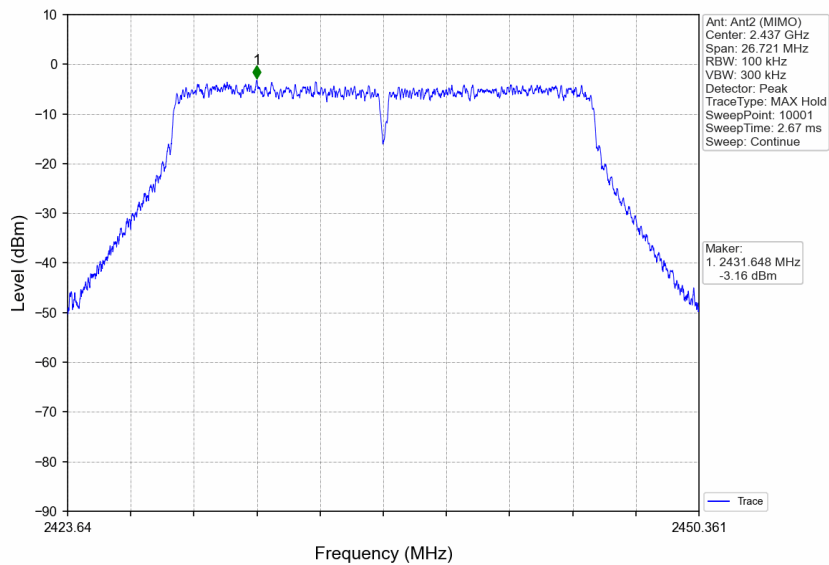
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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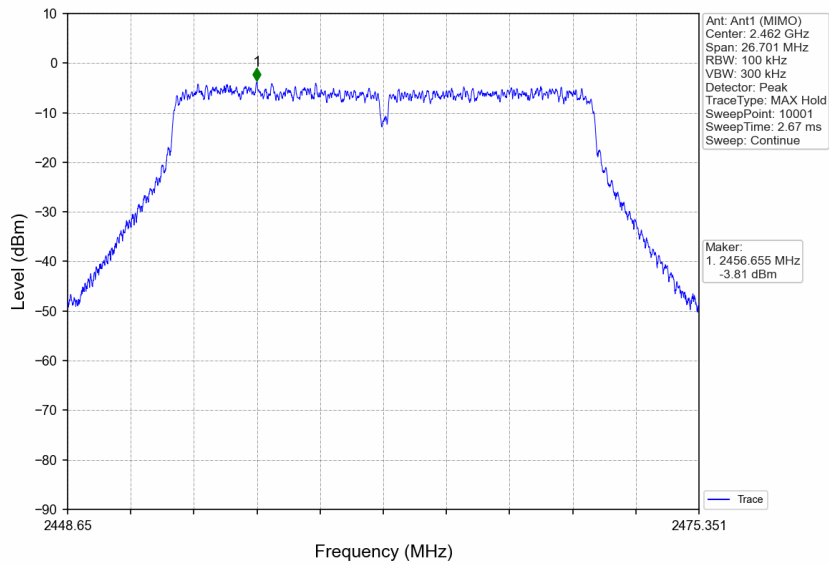
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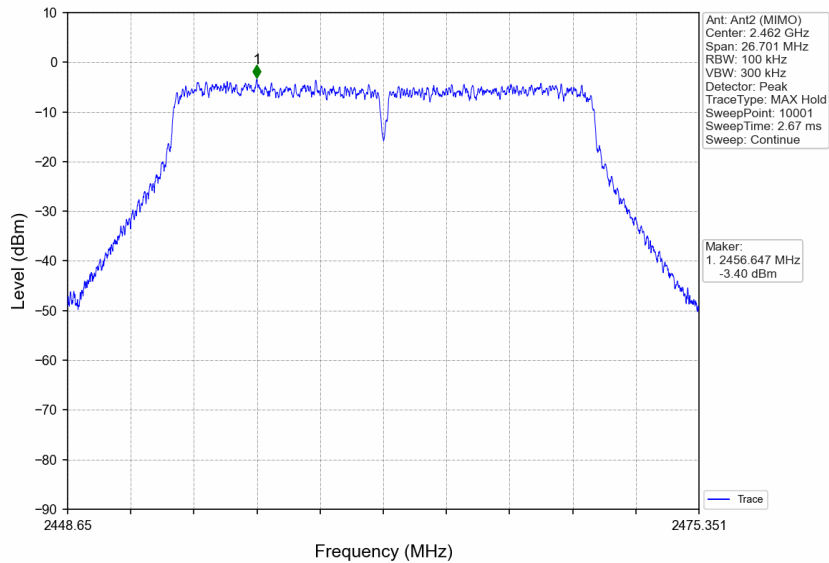
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTVN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTVN



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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	4.34	-25.66	Pass
			2	2.92	-27.08	Pass
		2437	1	4.34	-25.66	Pass
			2	2.92	-27.08	Pass
		2462	1	4.34	-25.66	Pass
			2	2.92	-27.08	Pass
802.11g	SISO	2412	1	-0.37	-30.37	Pass
			2	-0.99	-30.99	Pass
		2437	1	-0.37	-30.37	Pass
			2	-0.99	-30.99	Pass
		2462	1	-0.37	-30.37	Pass
			2	-0.99	-30.99	Pass
802.11n (HT20)	MIMO	2412	1	-3.07	-33.07	Pass
			2	-2.60	-32.60	Pass
		2437	1	-3.07	-33.07	Pass
			2	-2.60	-32.60	Pass
		2462	1	-3.07	-33.07	Pass
			2	-2.60	-32.60	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

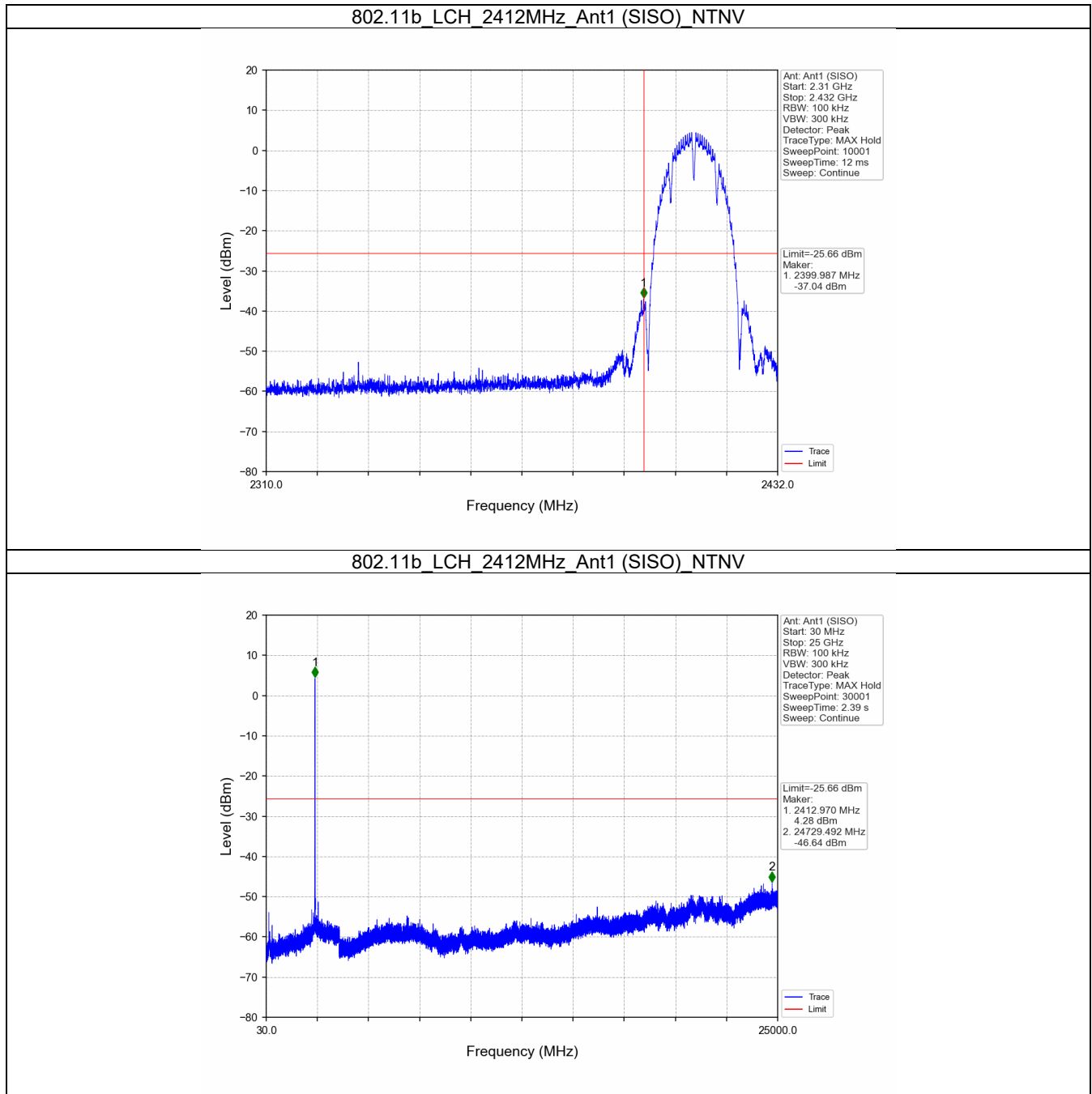
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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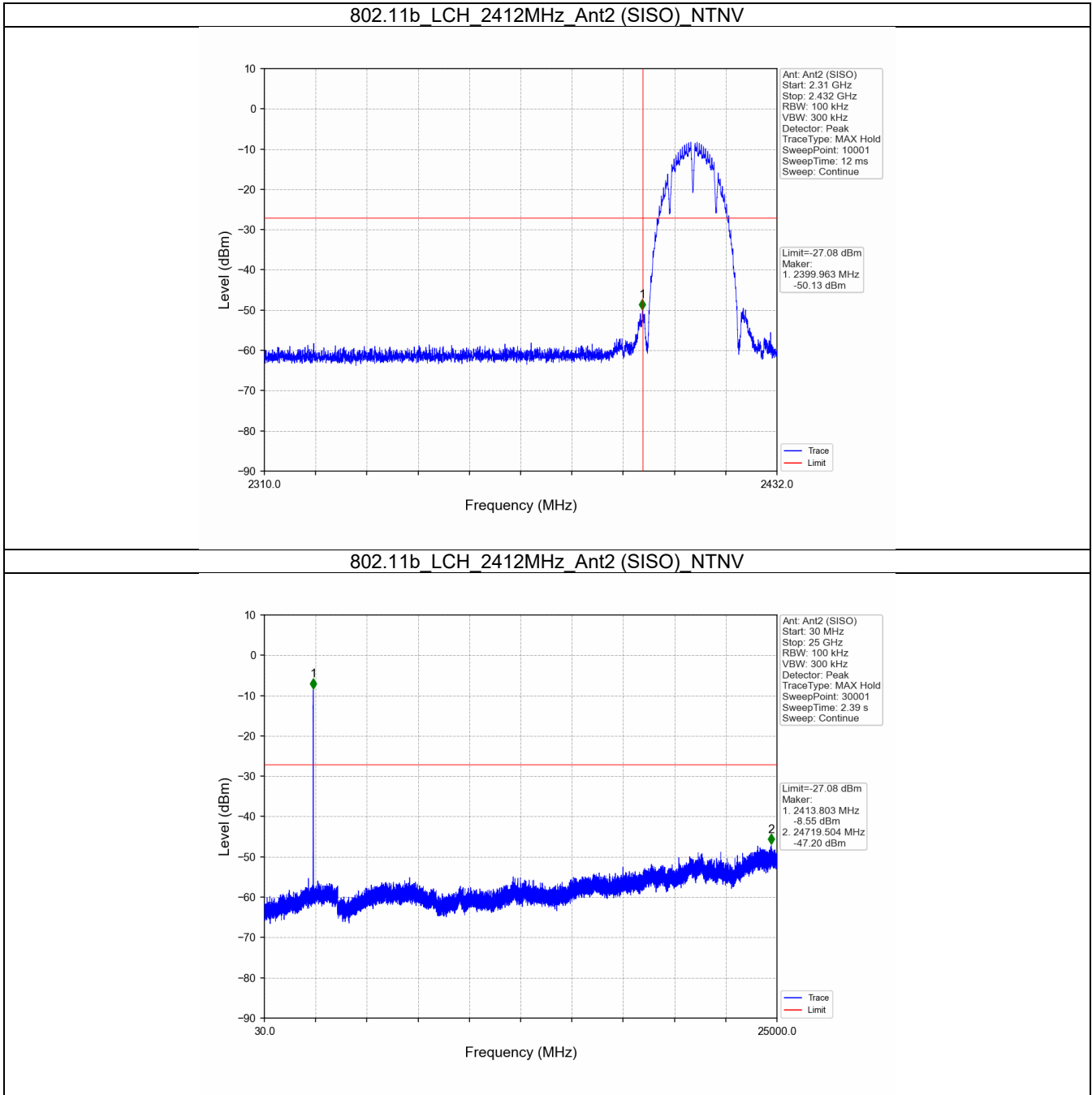
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5.2.2 Test Graph



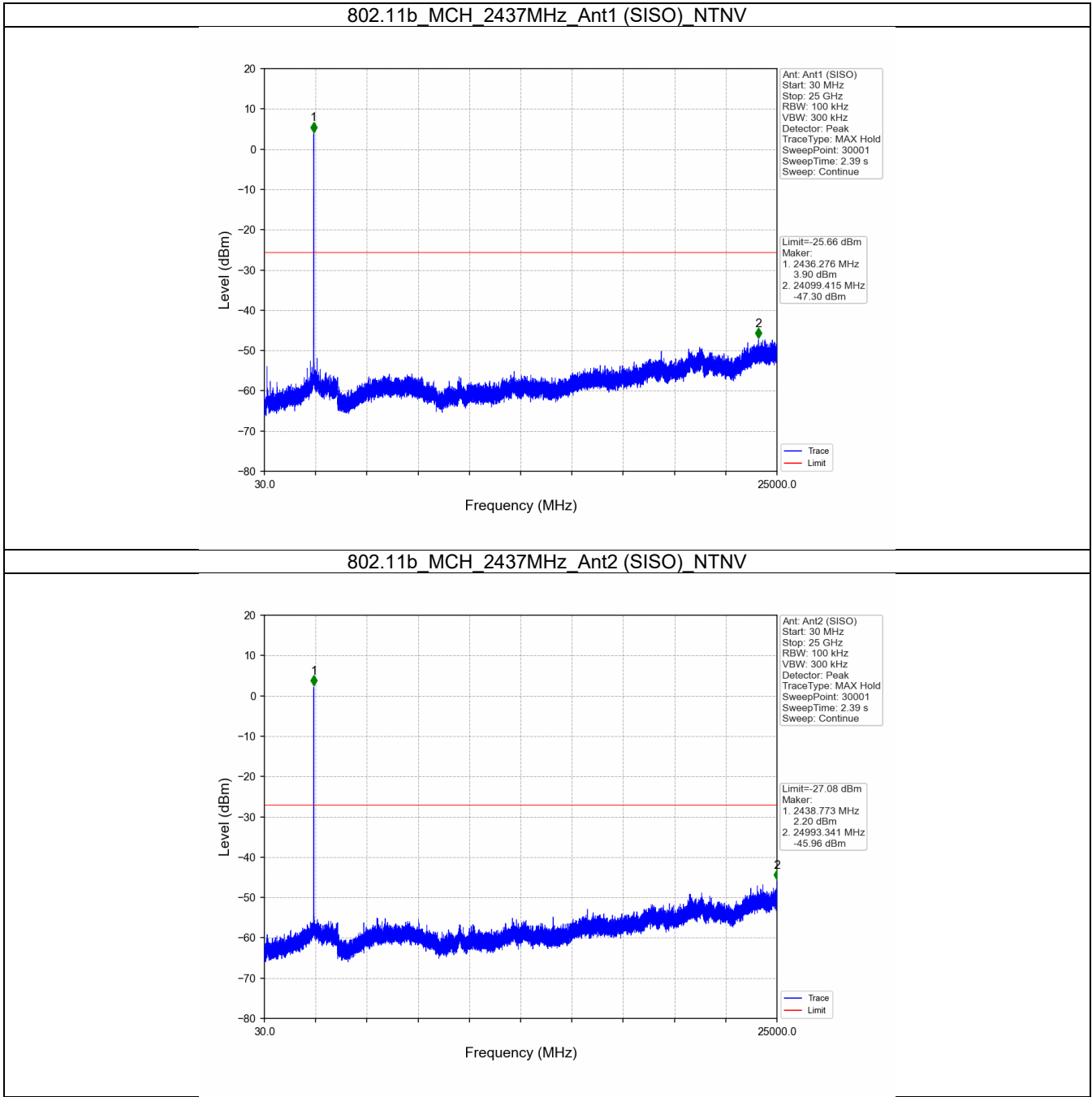
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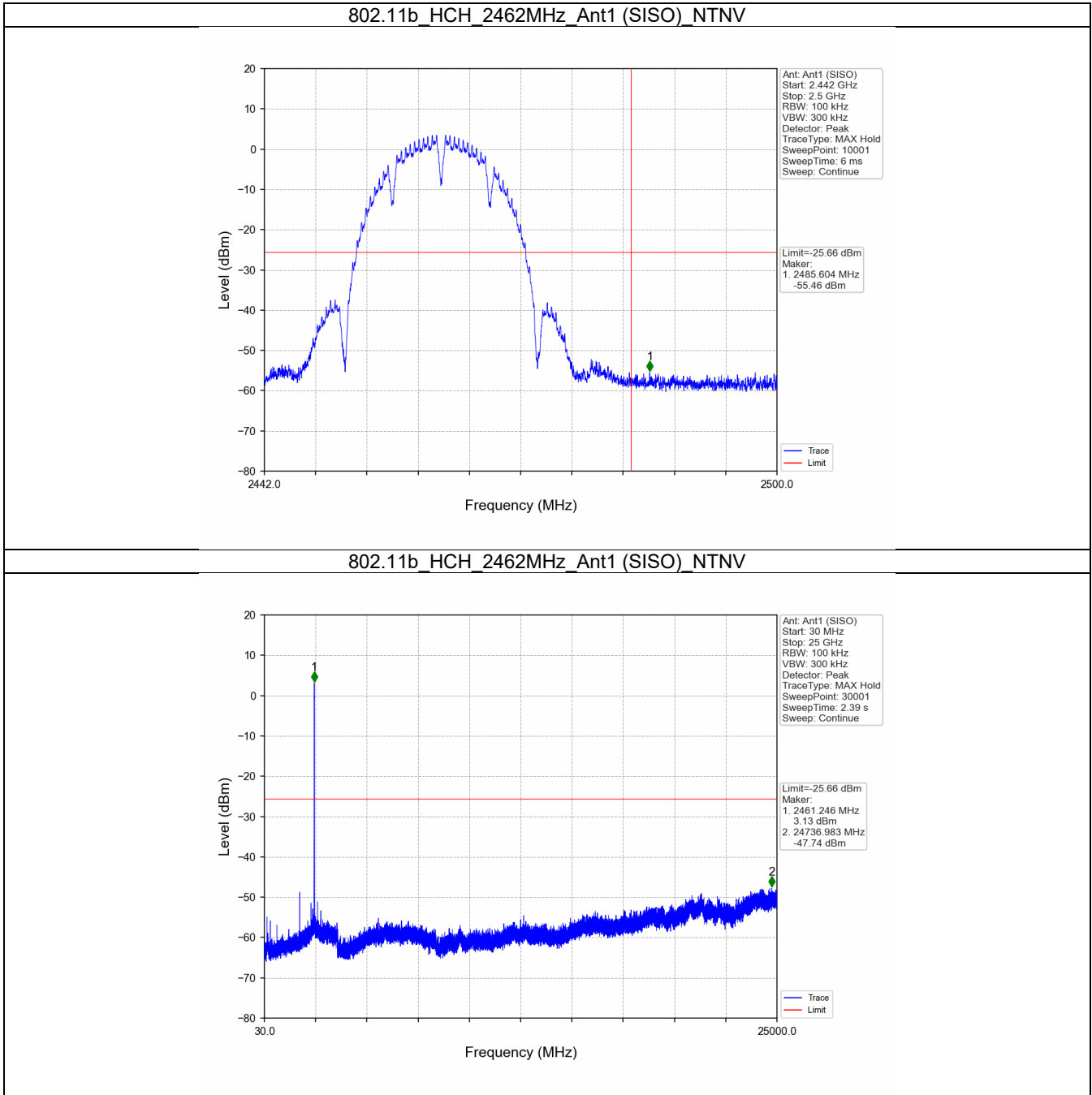
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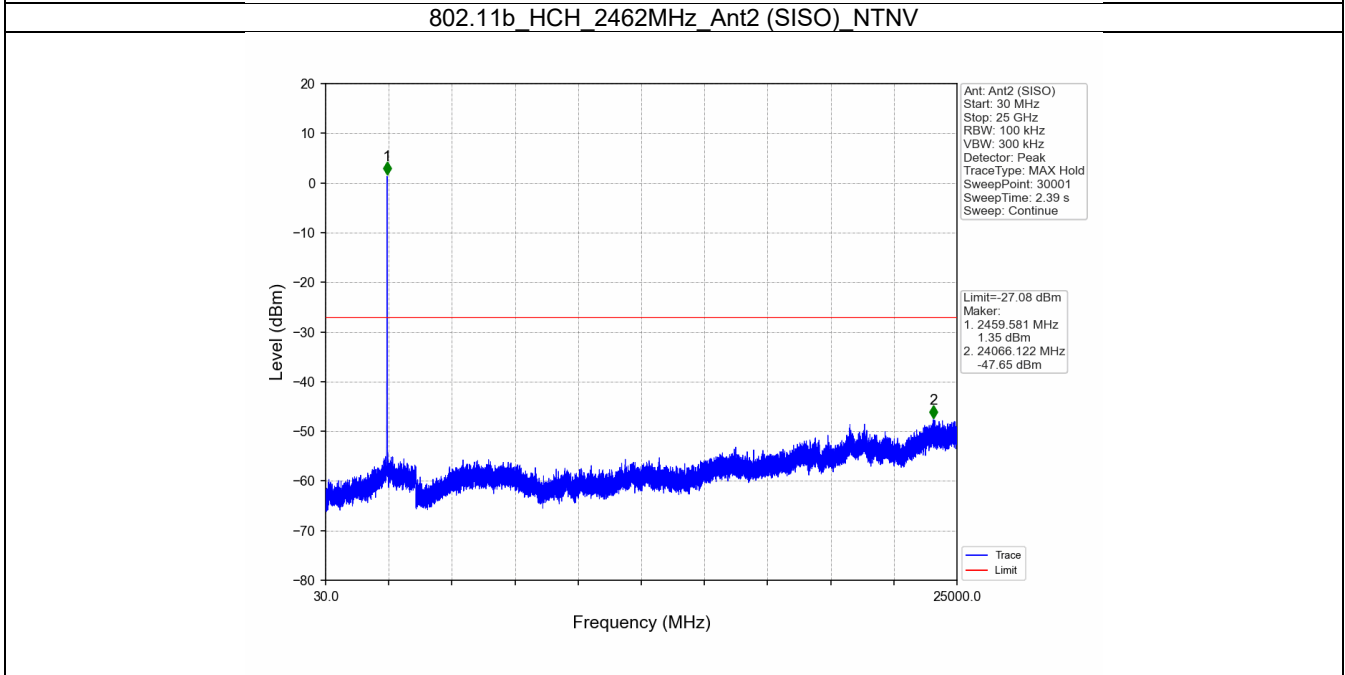
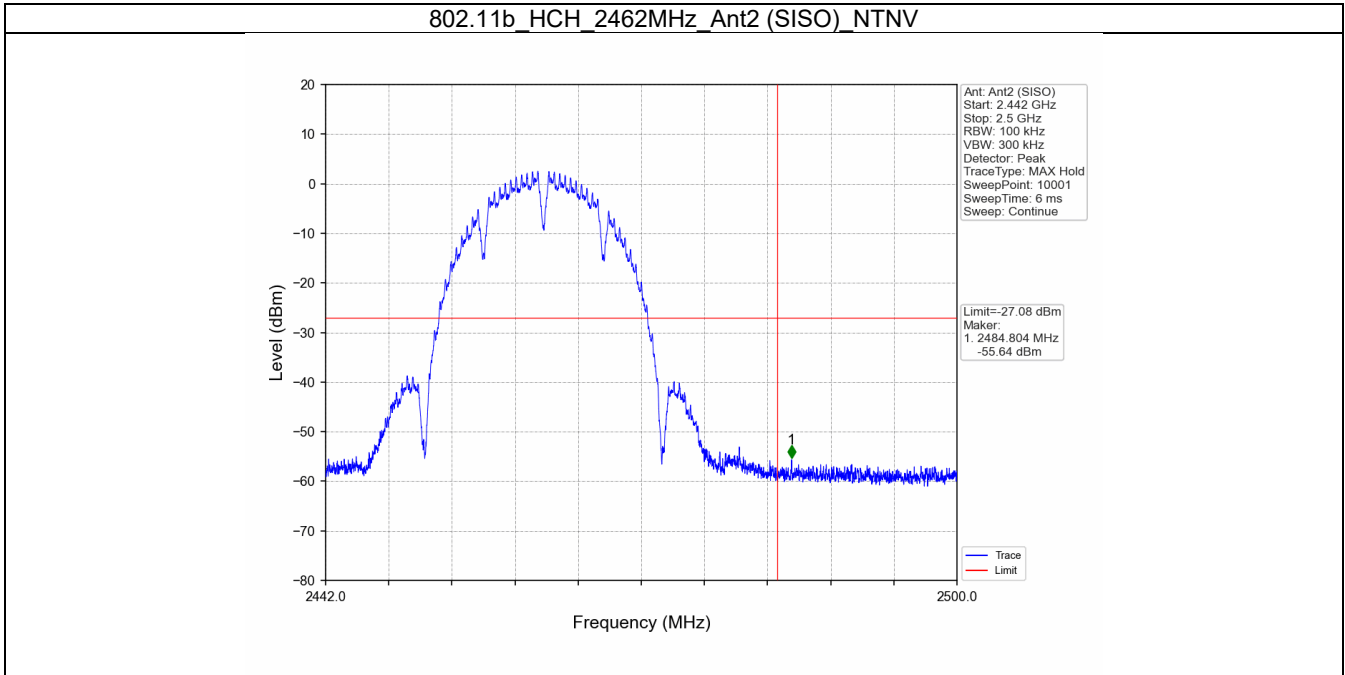
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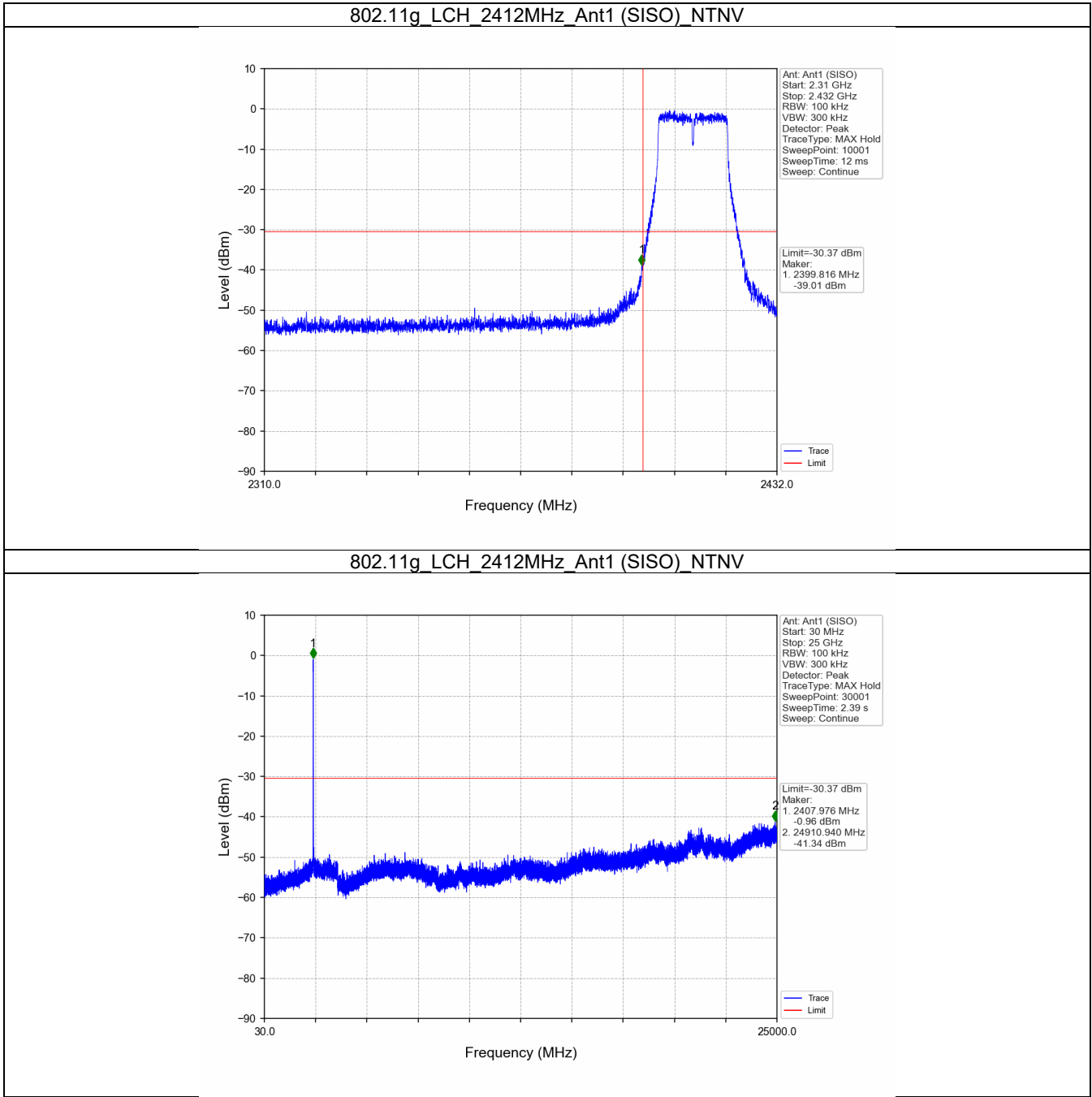
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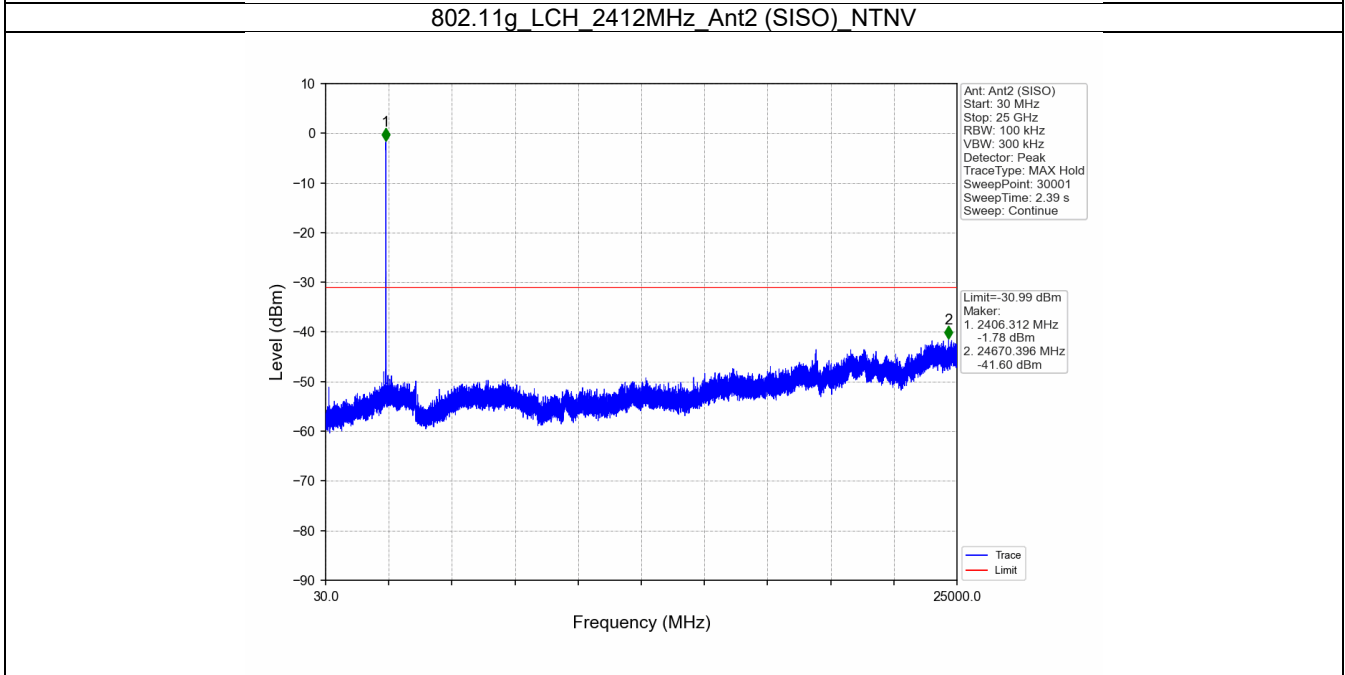
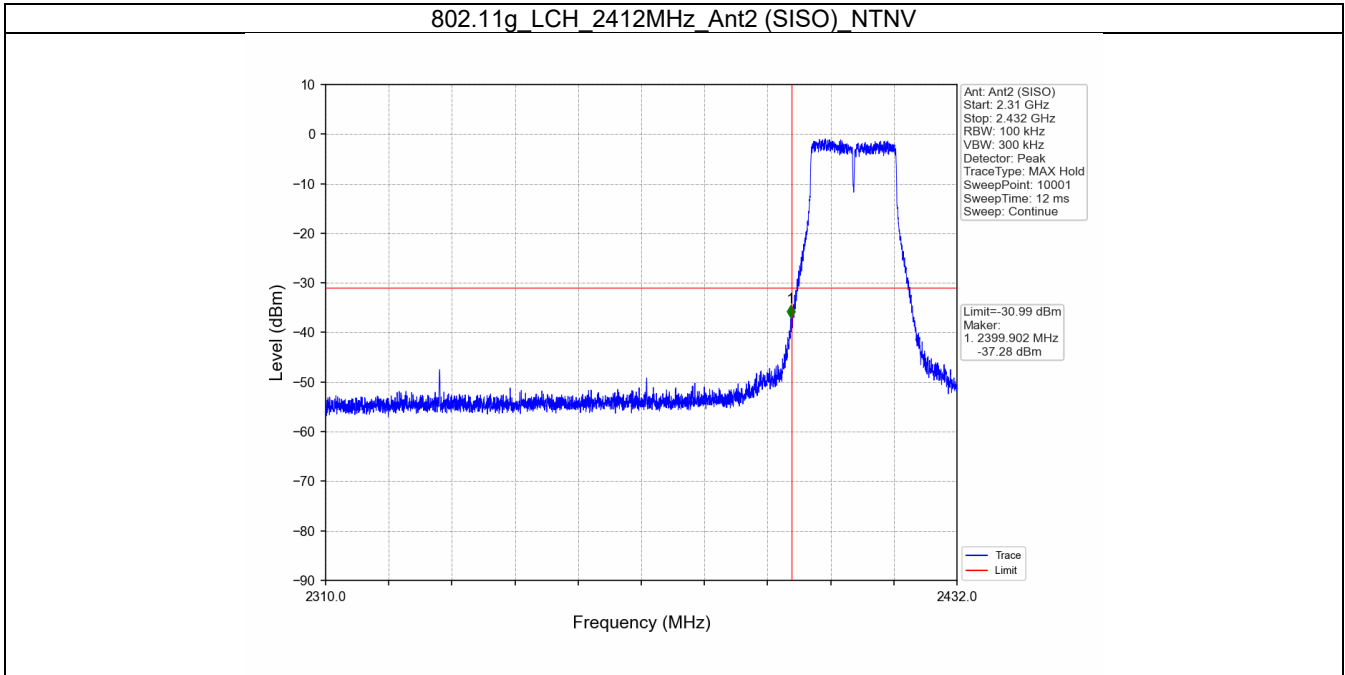
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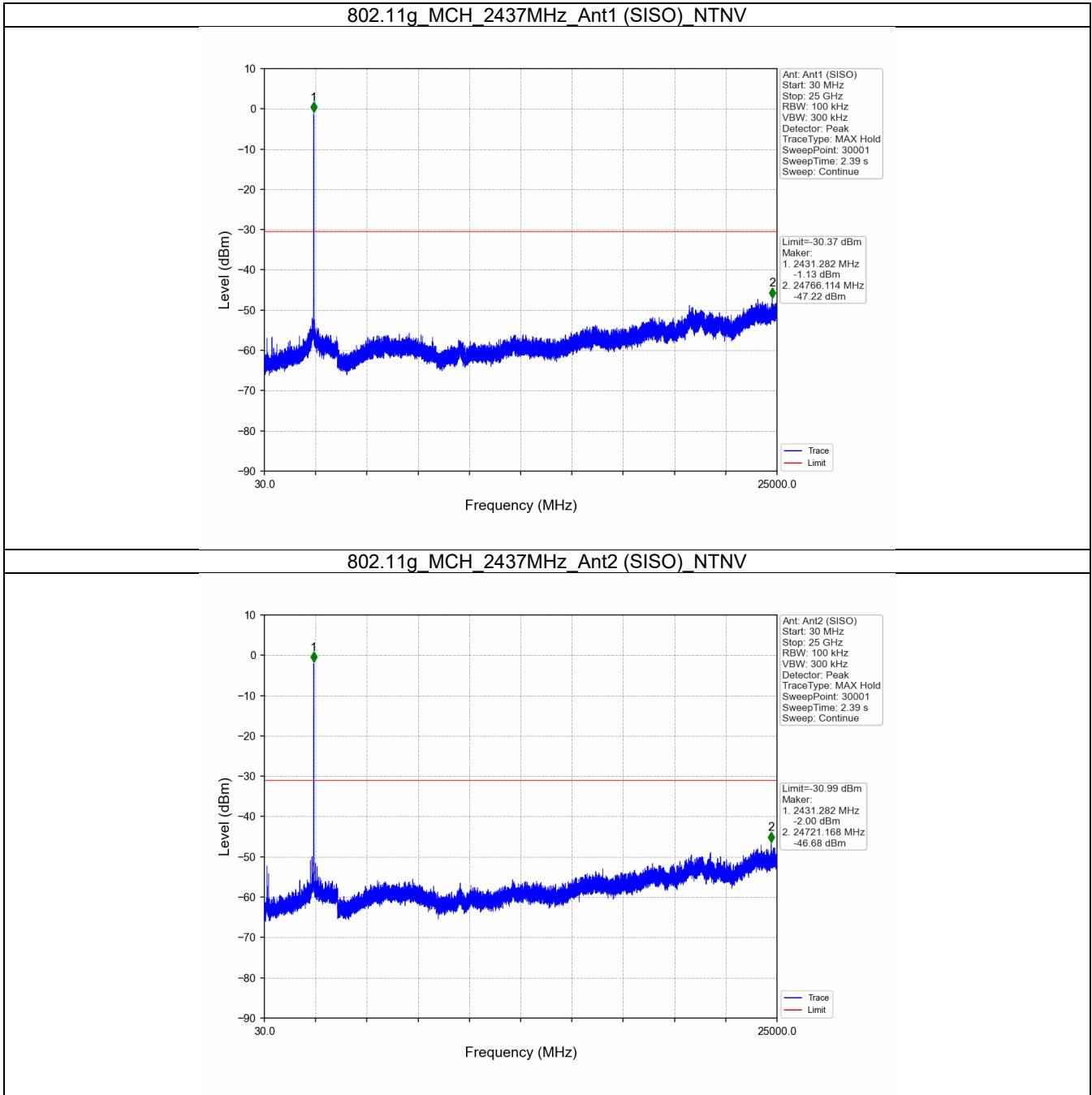
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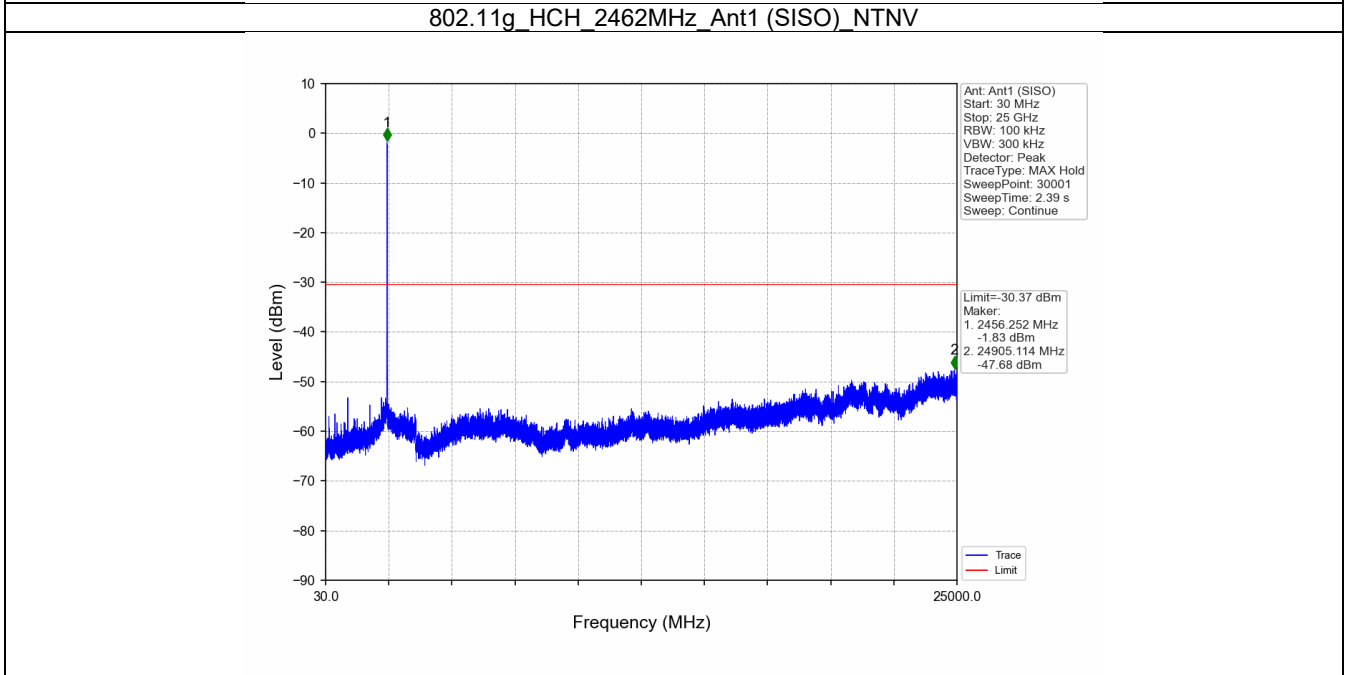
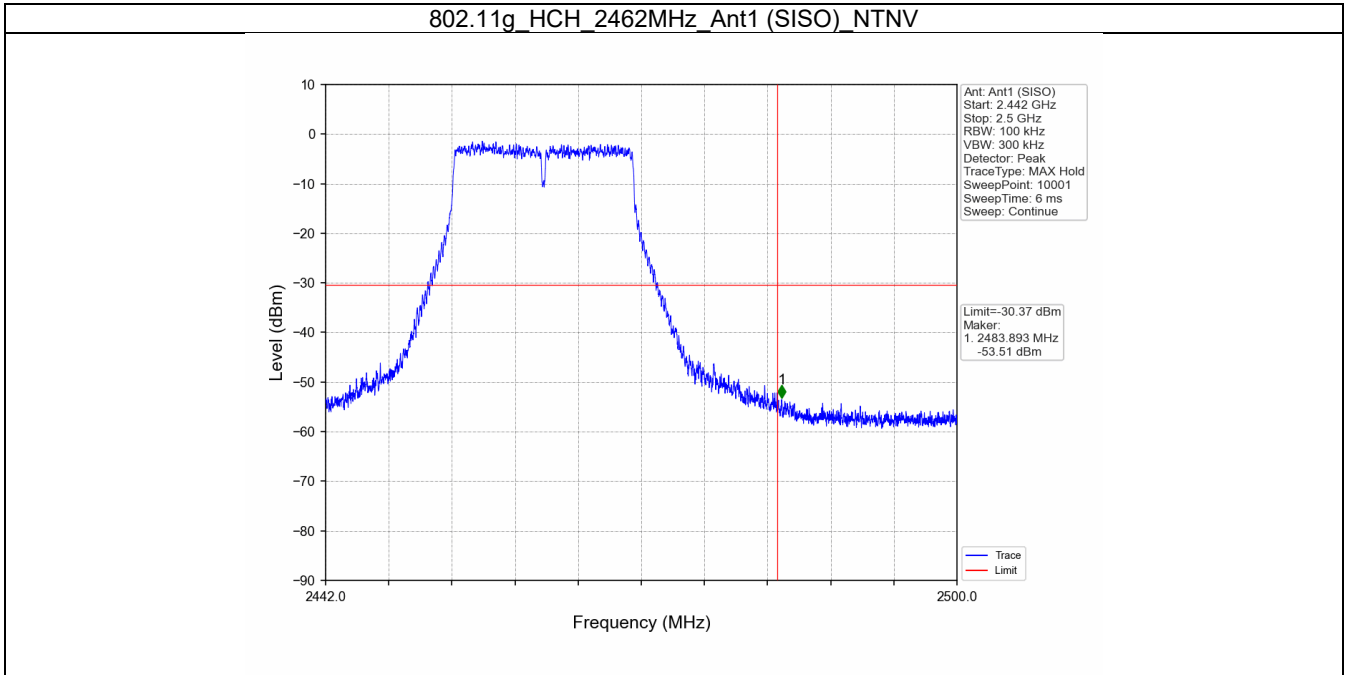
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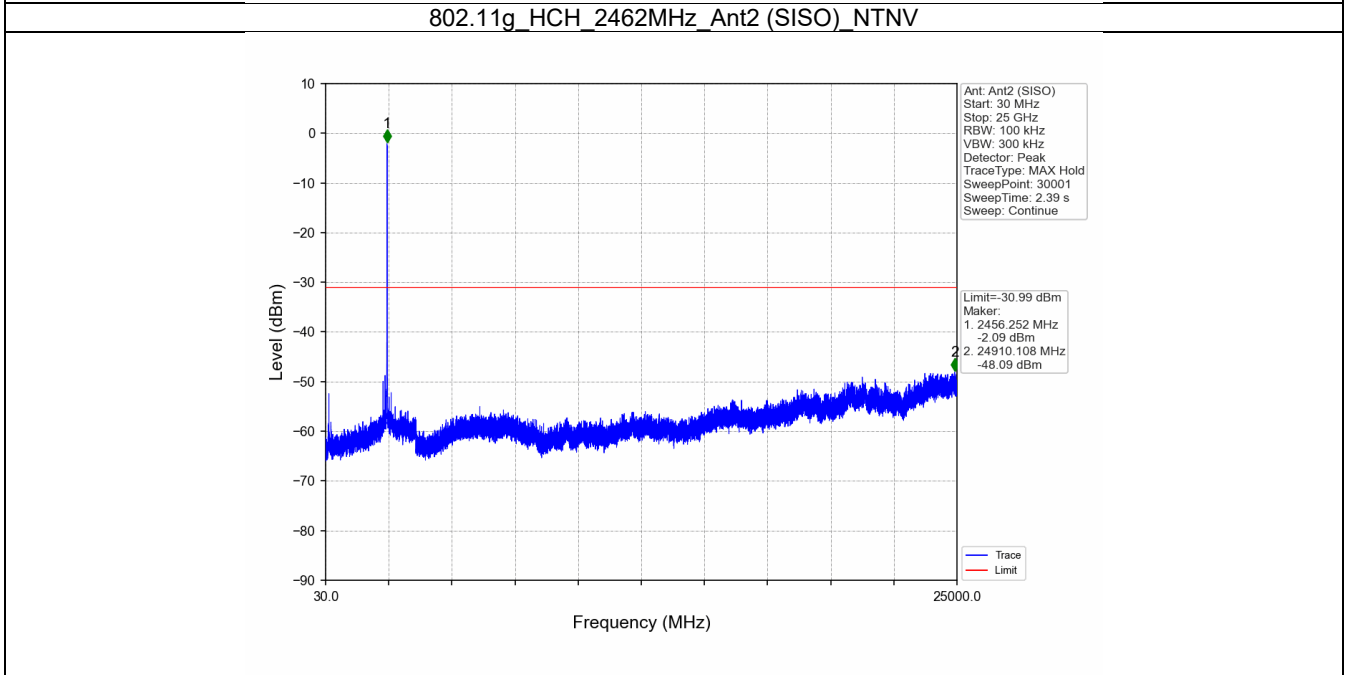
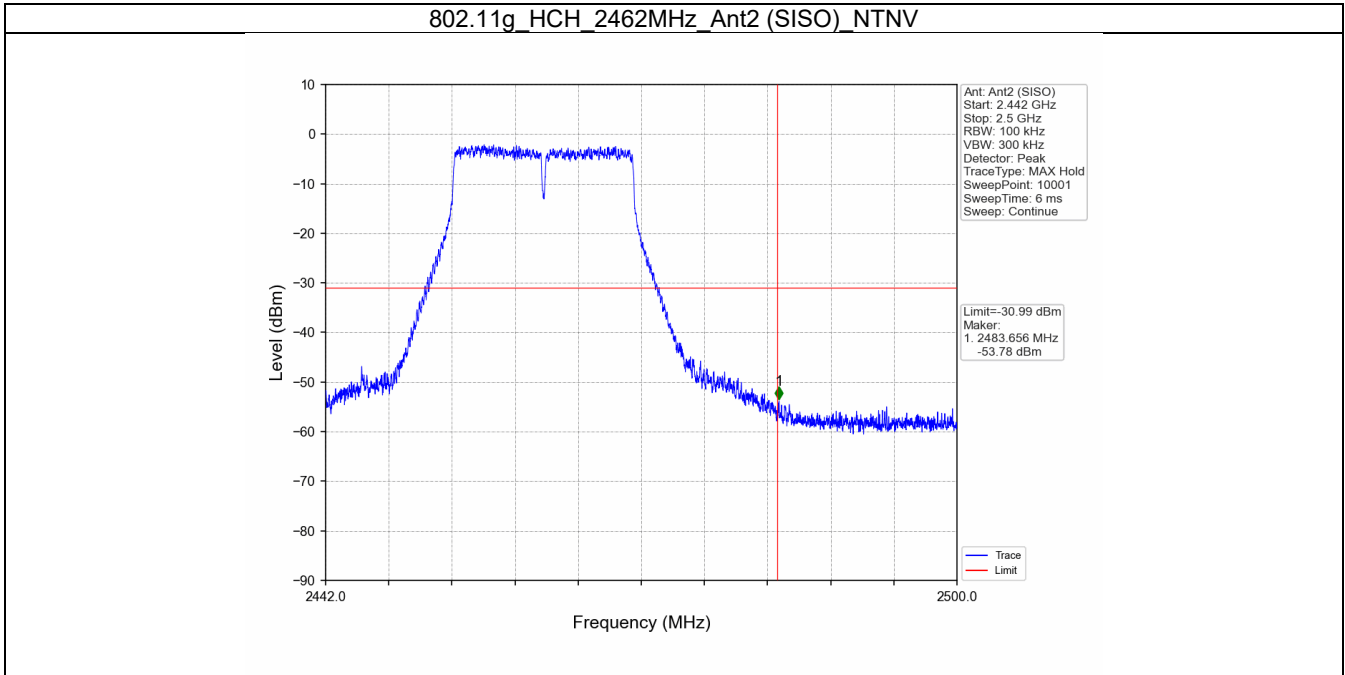
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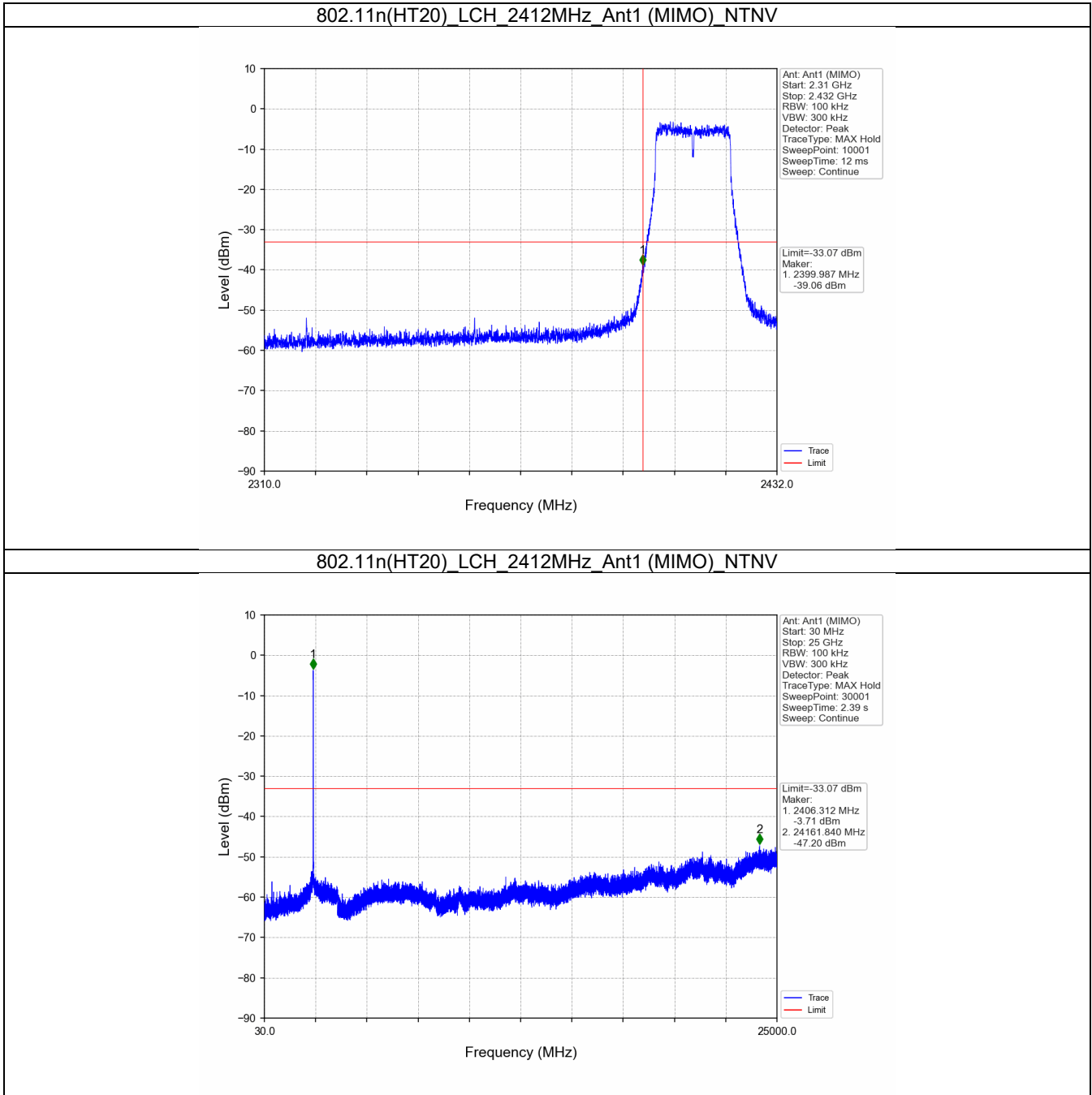
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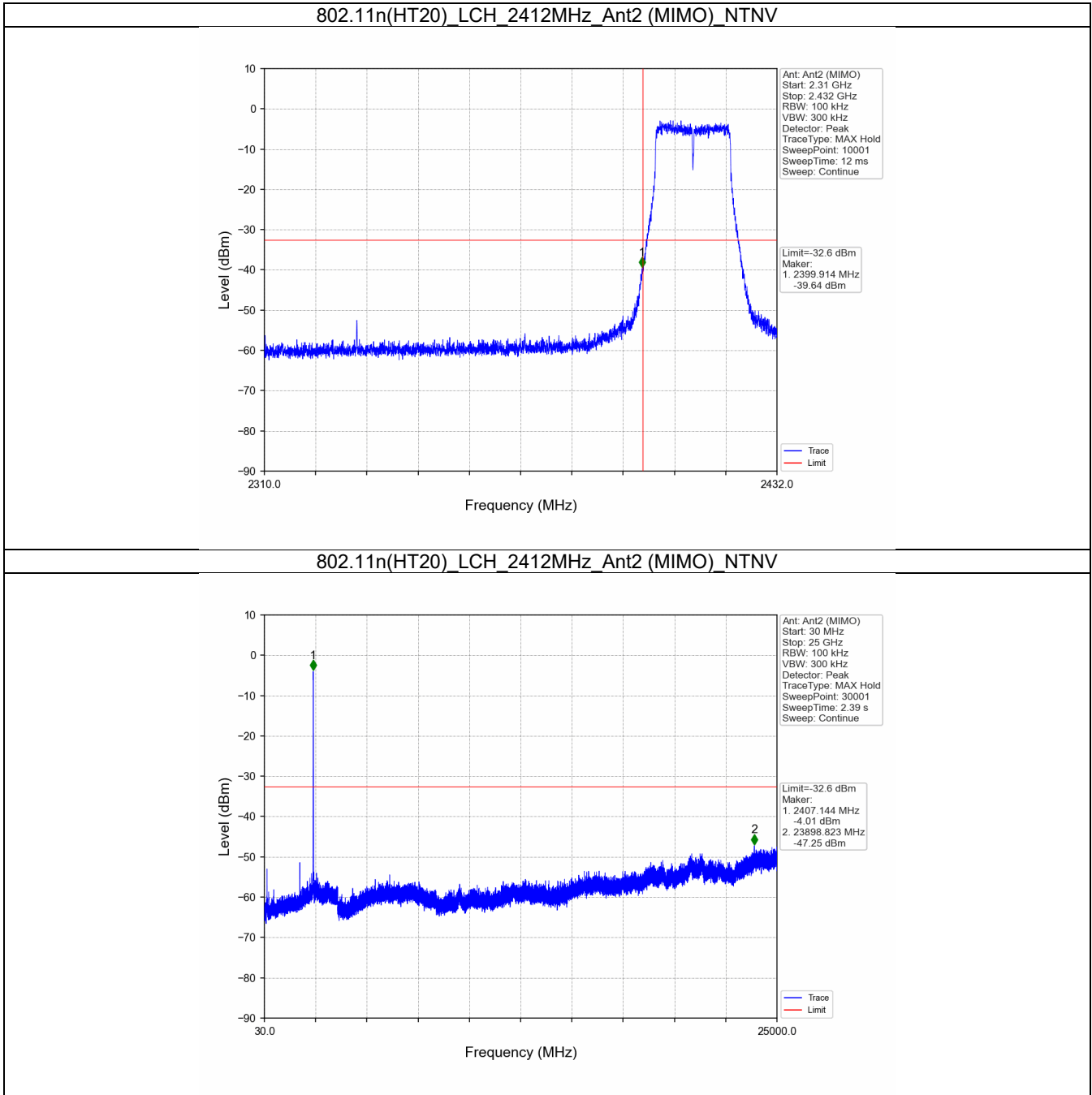
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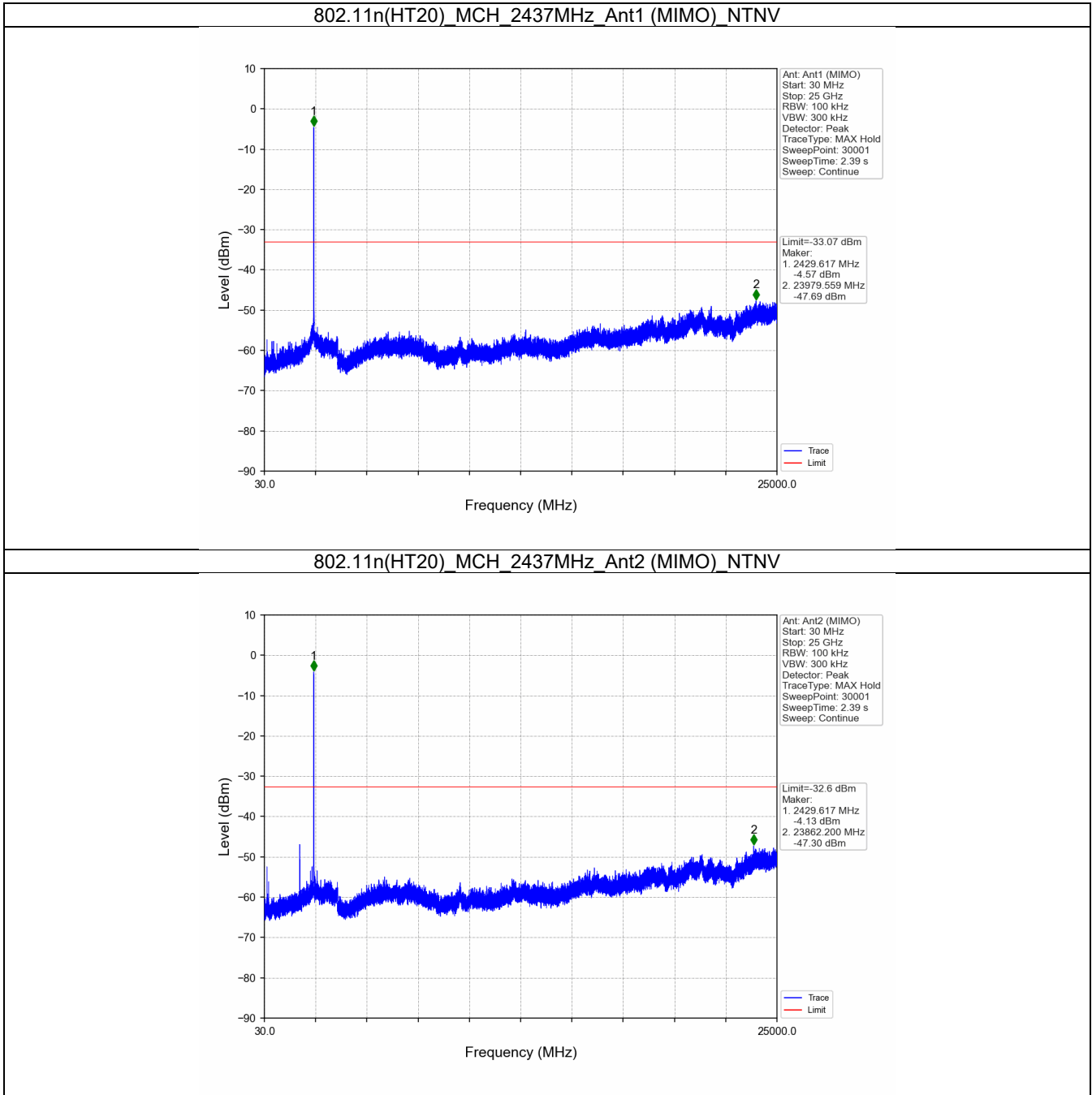
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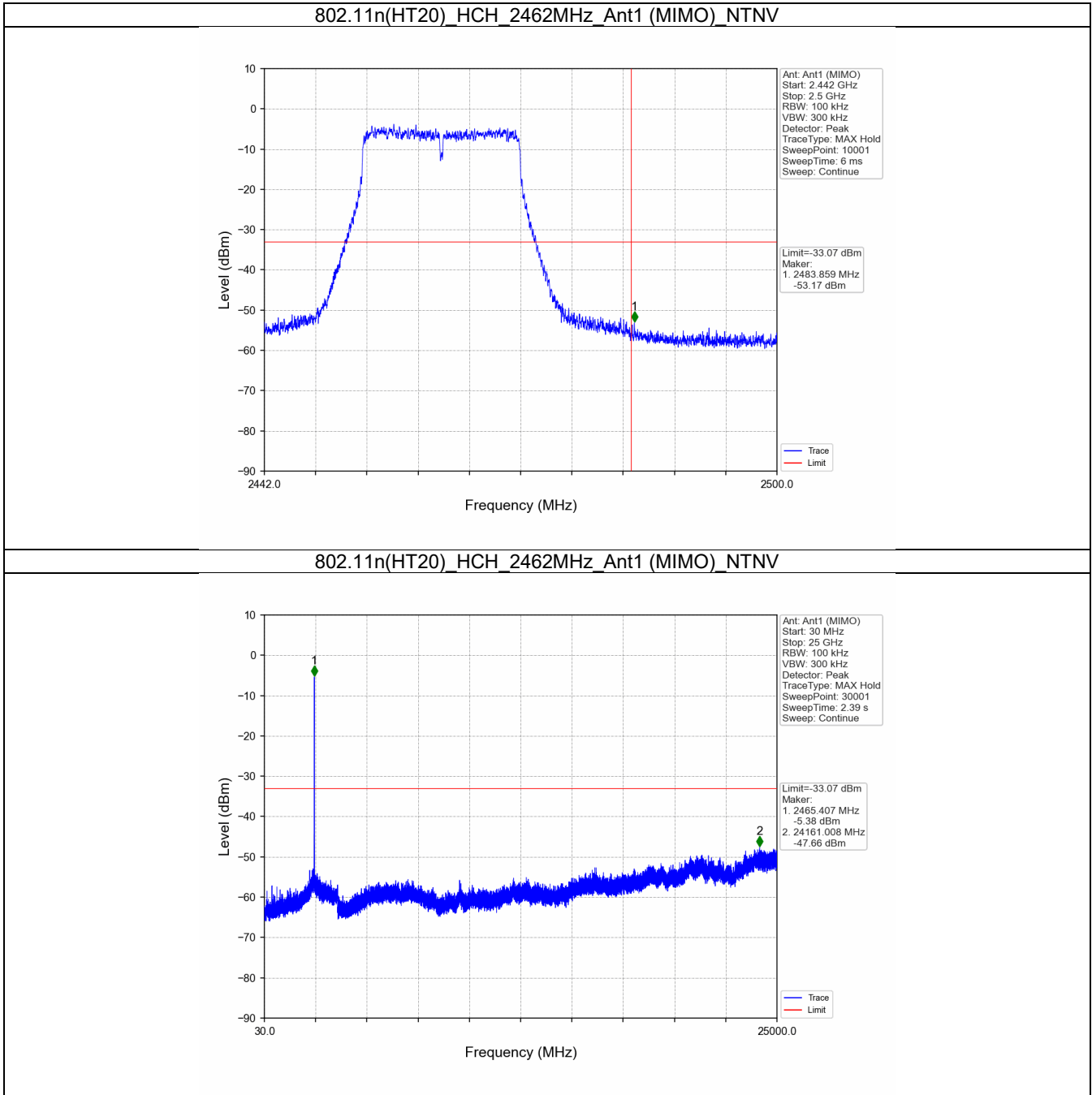
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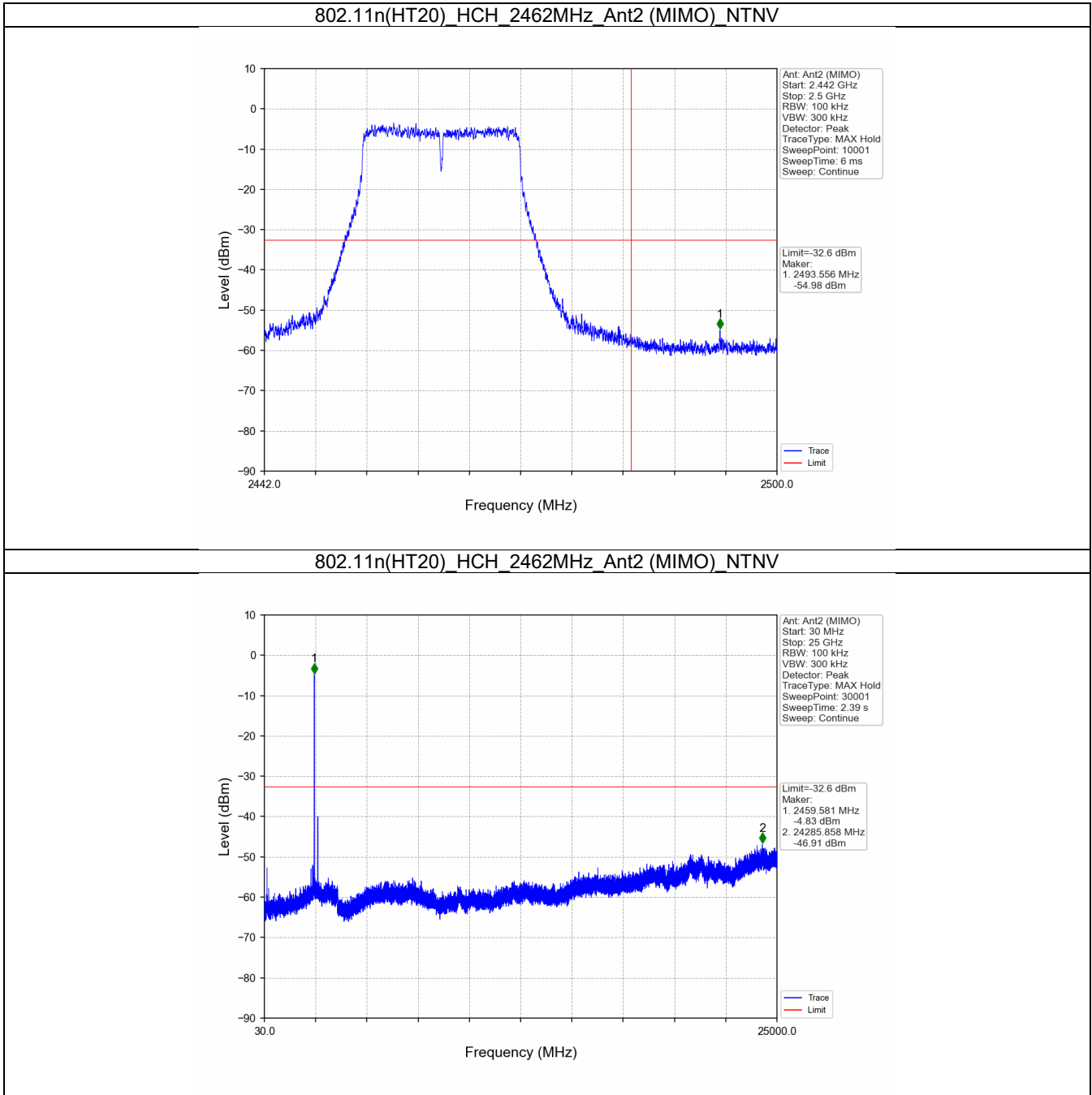
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