

## Appendix A for KSCR210900016901

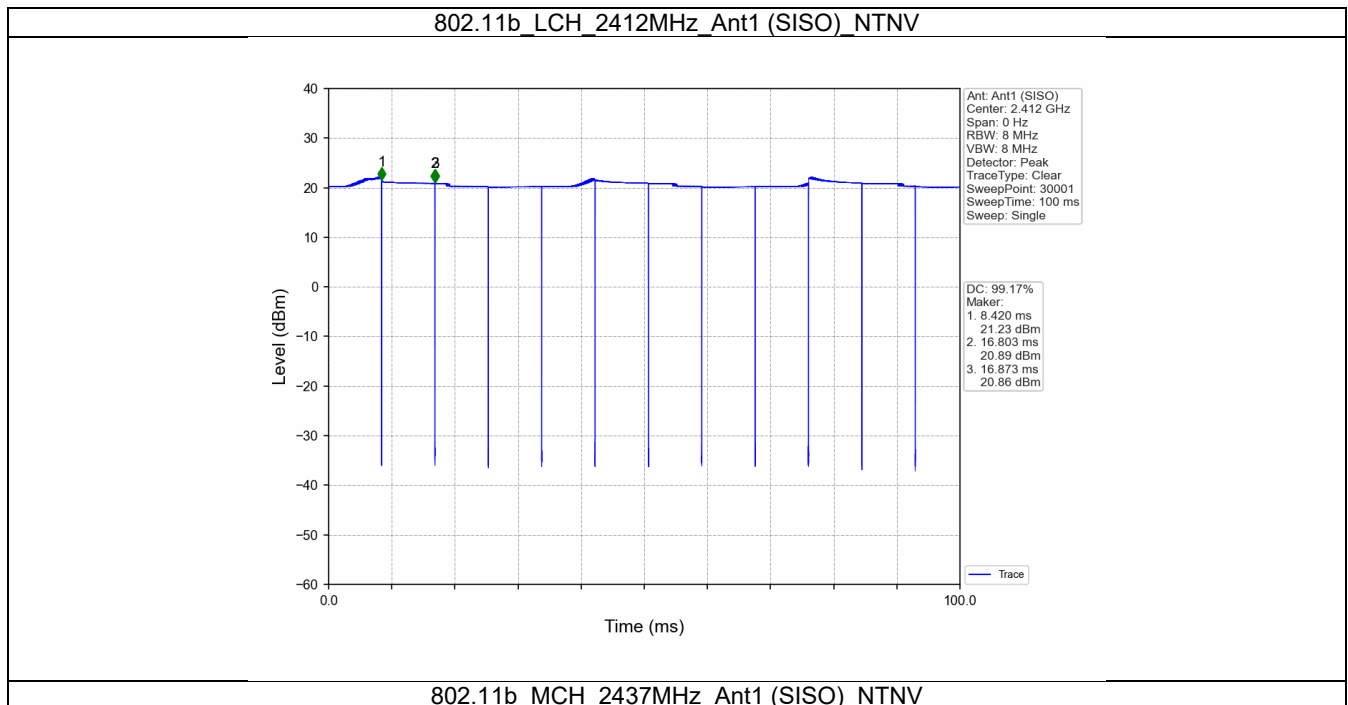
### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T <sub>on</sub> (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.383	8.453	99.17	0.04	0.04
		2437	8.383	8.453	99.17	0.04	0.04
		2462	8.384	8.454	99.17	0.04	0.04
802.11g	SISO	2412	1.391	1.459	95.34	0.21	0.03
		2437	1.393	1.461	95.35	0.21	0.03
		2462	1.392	1.461	95.28	0.21	0.03
802.11n (HT20)	SISO	2412	5.083	5.152	98.66	0.06	0.04
		2437	5.083	5.152	98.66	0.06	0.04
		2462	5.083	5.152	98.66	0.06	0.04
802.11n (HT40)	SISO	2422	2.467	2.535	97.32	0.12	0.00
		2437	2.467	2.535	97.32	0.12	0.03
		2452	2.467	2.536	97.28	0.12	0.03

##### 1.1.2 Test Graph

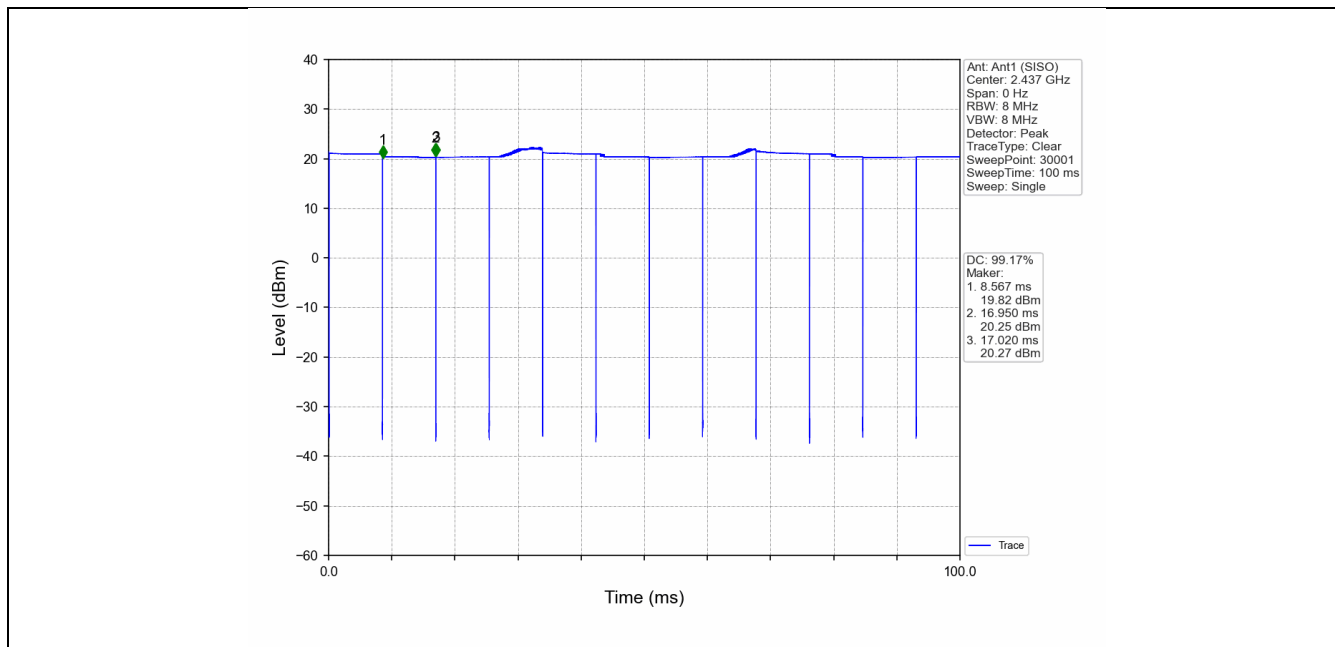


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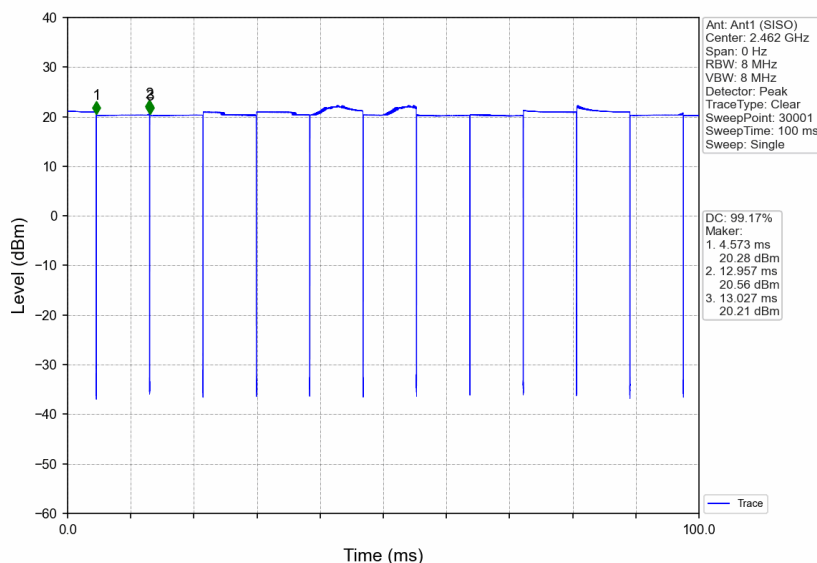
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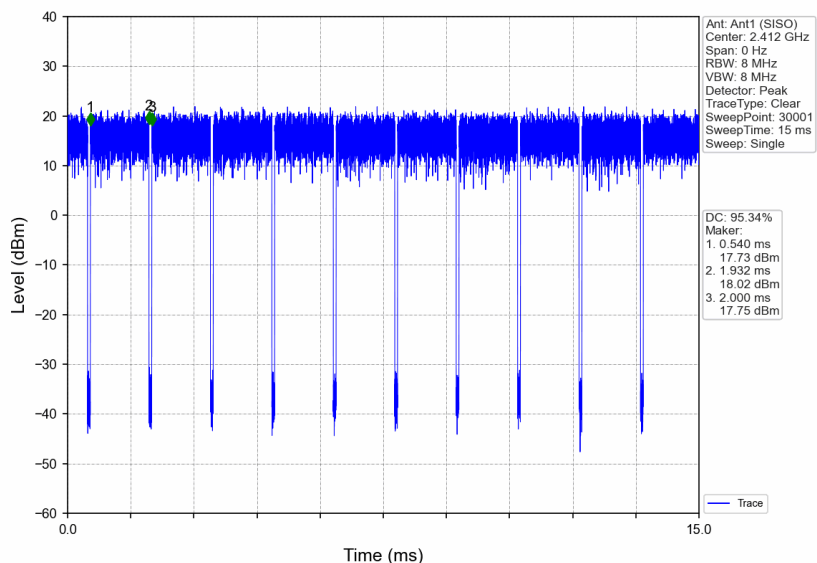
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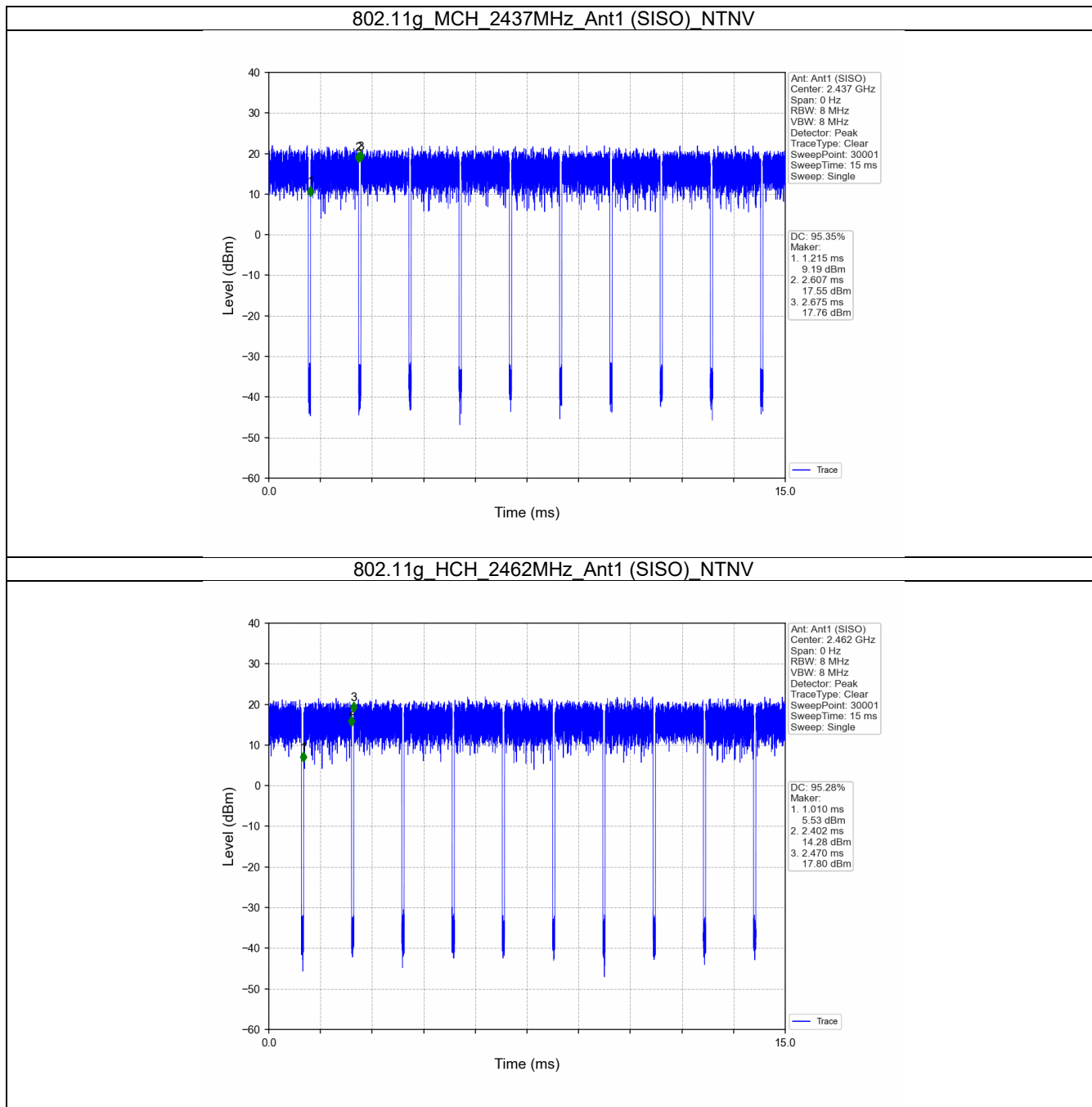
802.11b\_HCH\_2462MHz\_Ant1 (SISO) NTN



802.11g\_LCH\_2412MHz\_Ant1 (SISO) NTN



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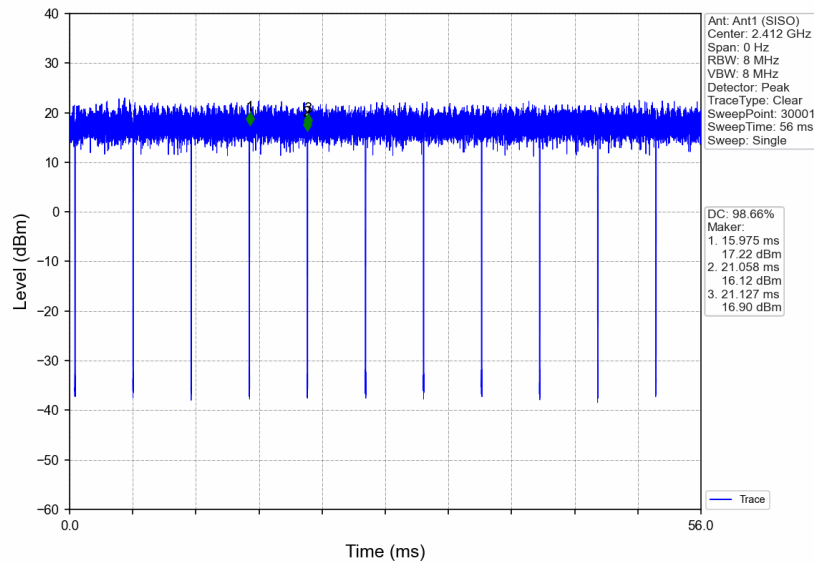


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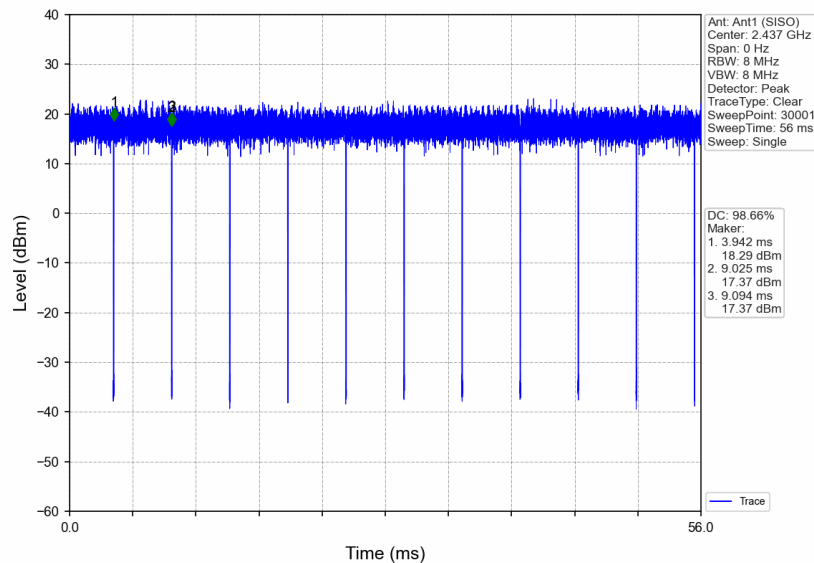
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



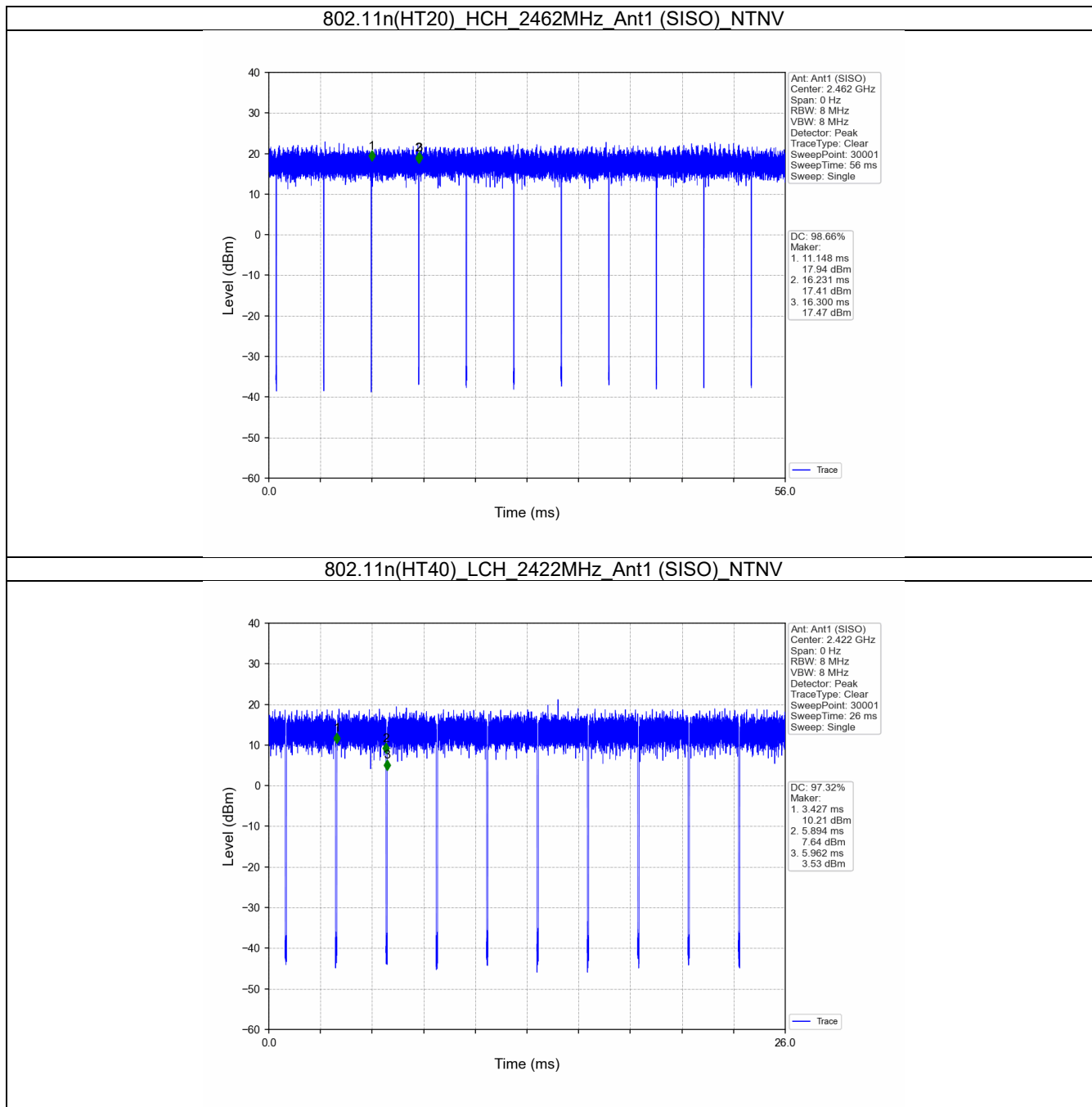
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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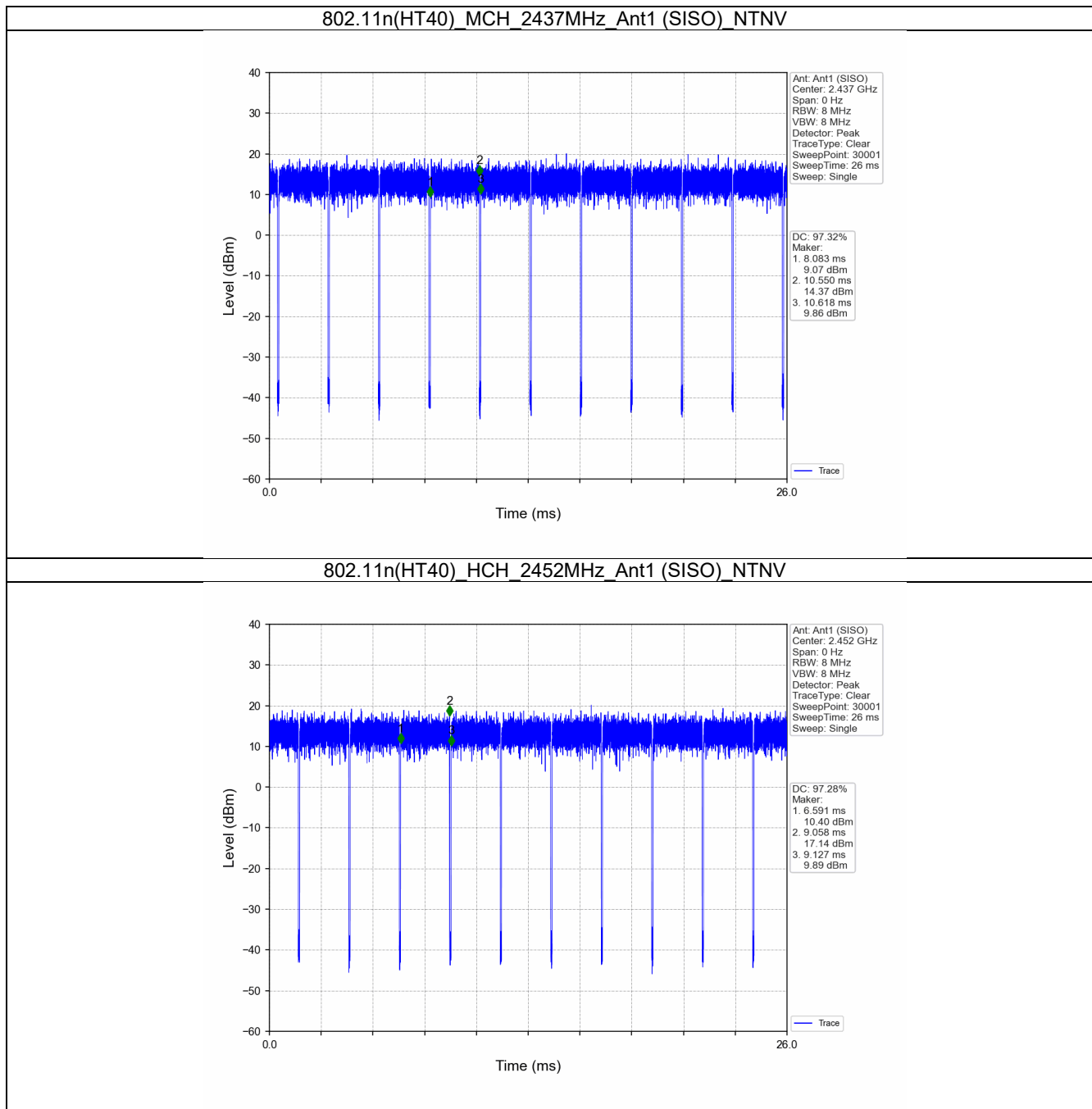


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## 2. Bandwidth

### 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	15.216	Pass
		2437	1	15.204	Pass
		2462	1	15.212	Pass
802.11g	SISO	2412	1	18.092	Pass
		2437	1	18.074	Pass
		2462	1	18.077	Pass
802.11n (HT20)	SISO	2412	1	18.789	Pass
		2437	1	18.736	Pass
		2462	1	18.769	Pass
802.11n (HT40)	SISO	2422	1	37.755	Pass
		2437	1	37.733	Pass
		2452	1	37.706	Pass



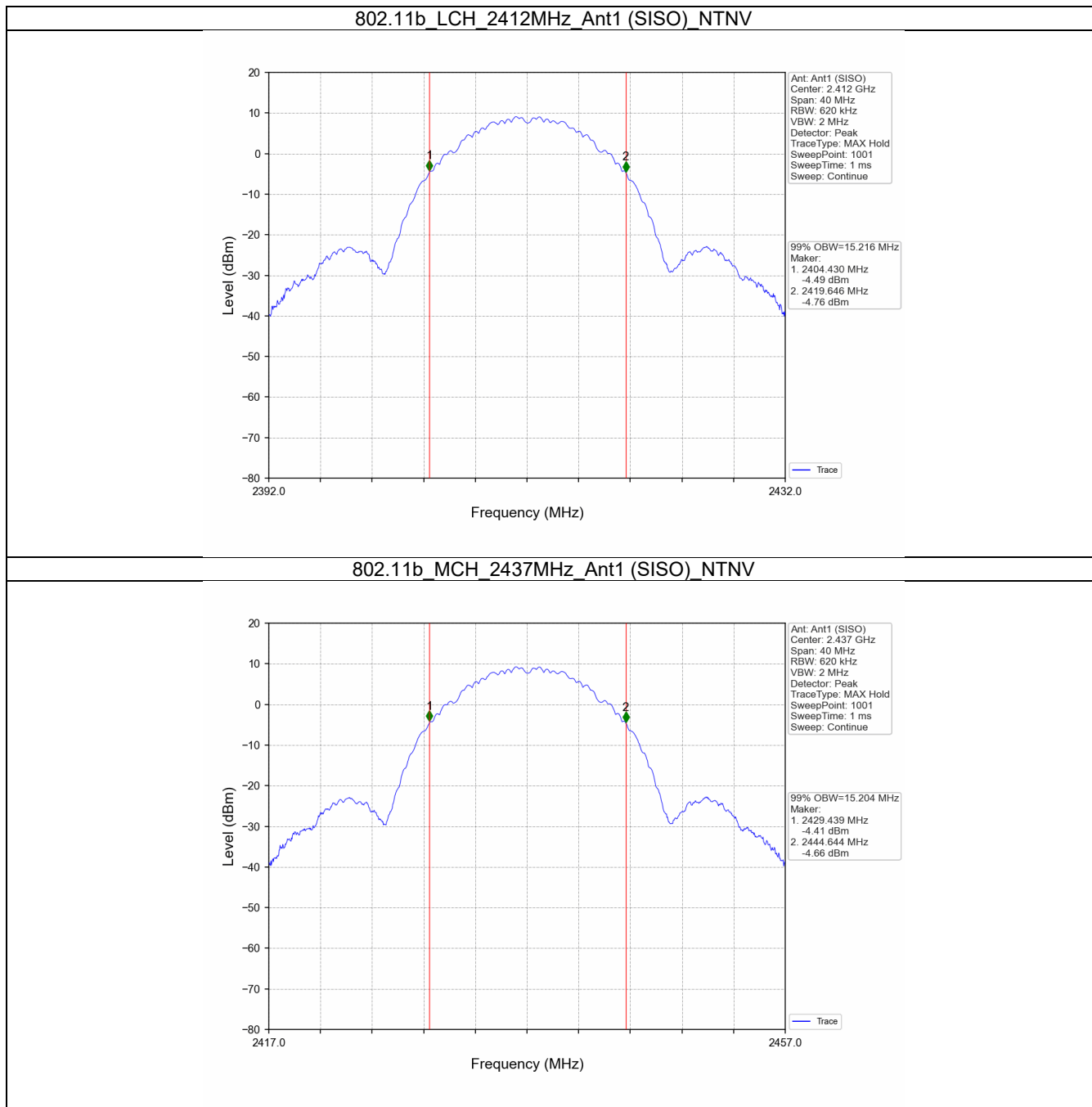
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2.1.2 Test Graph

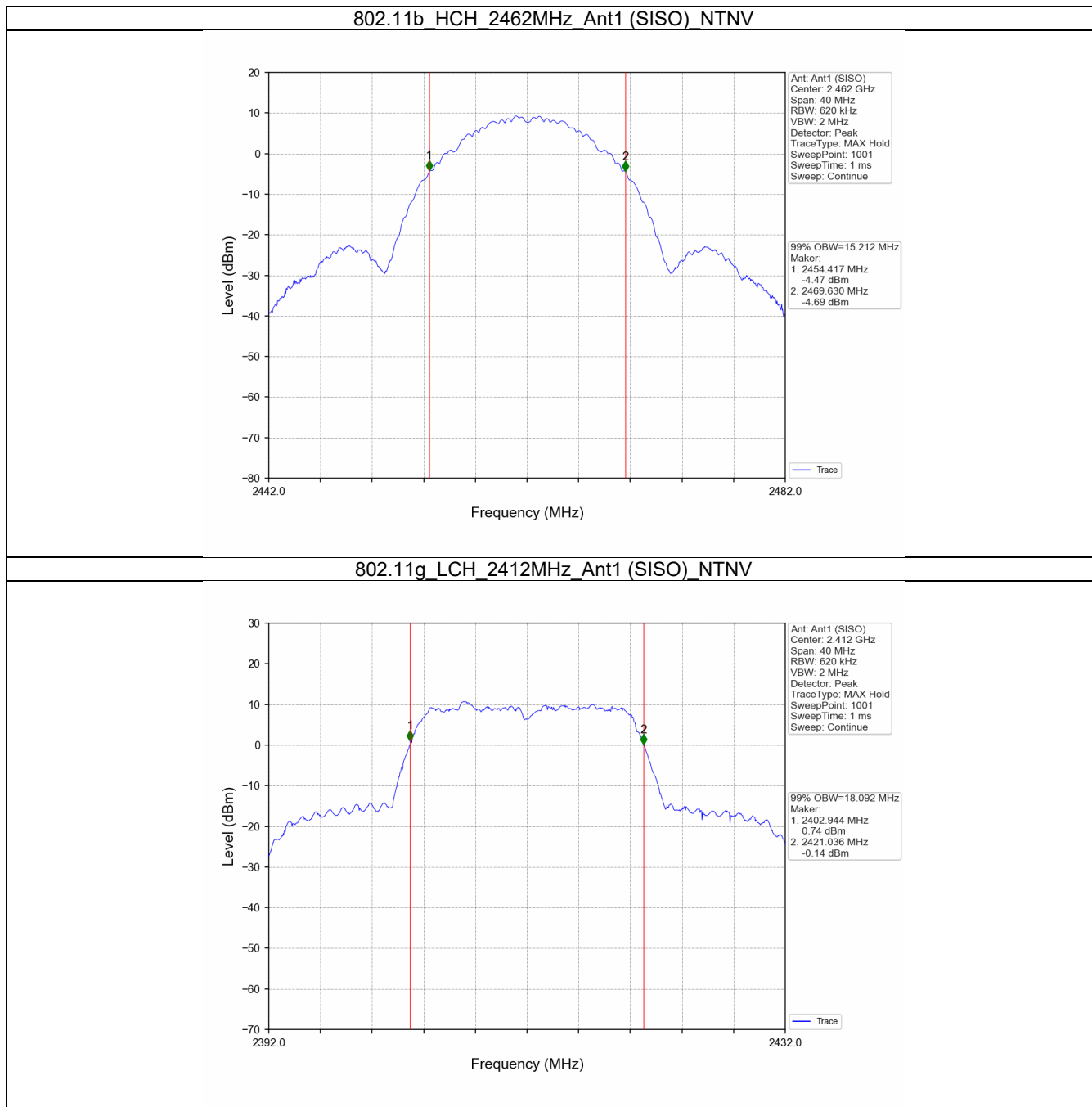


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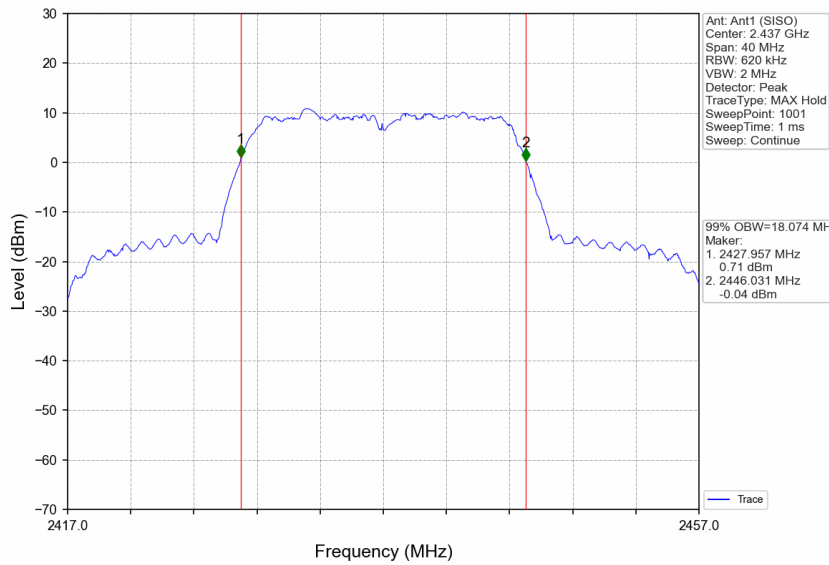


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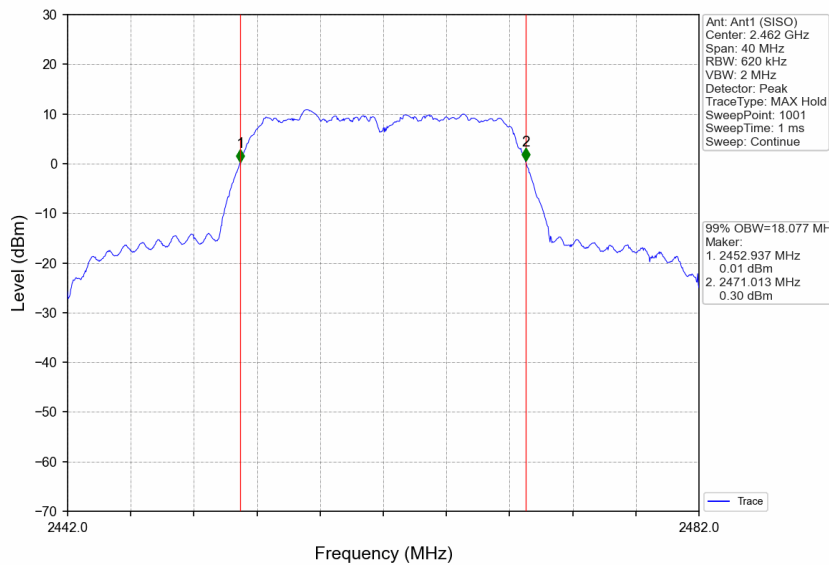
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802.11g\_HCH\_2462MHz\_Ant1 (SISO) NTN



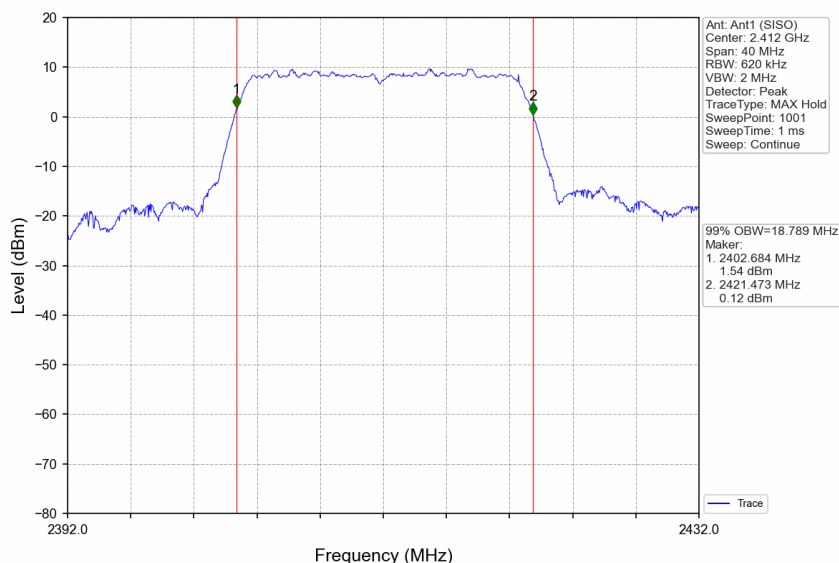
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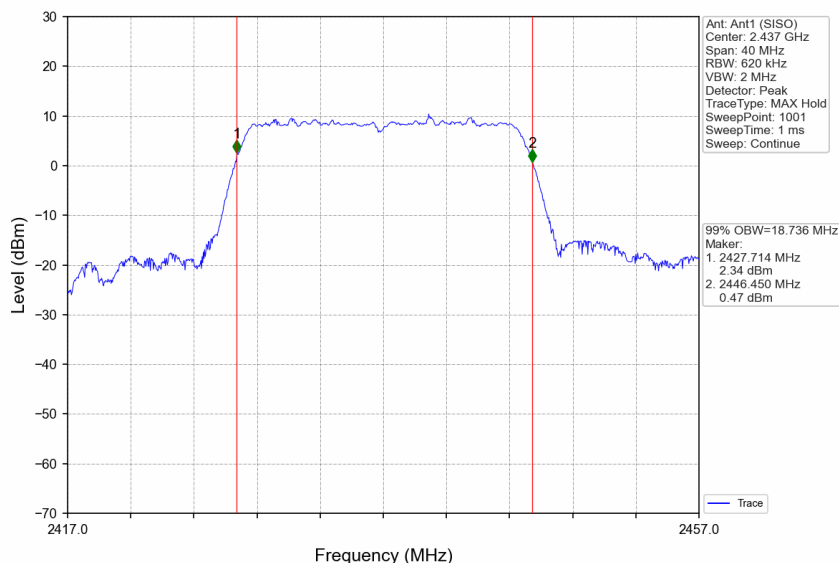
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

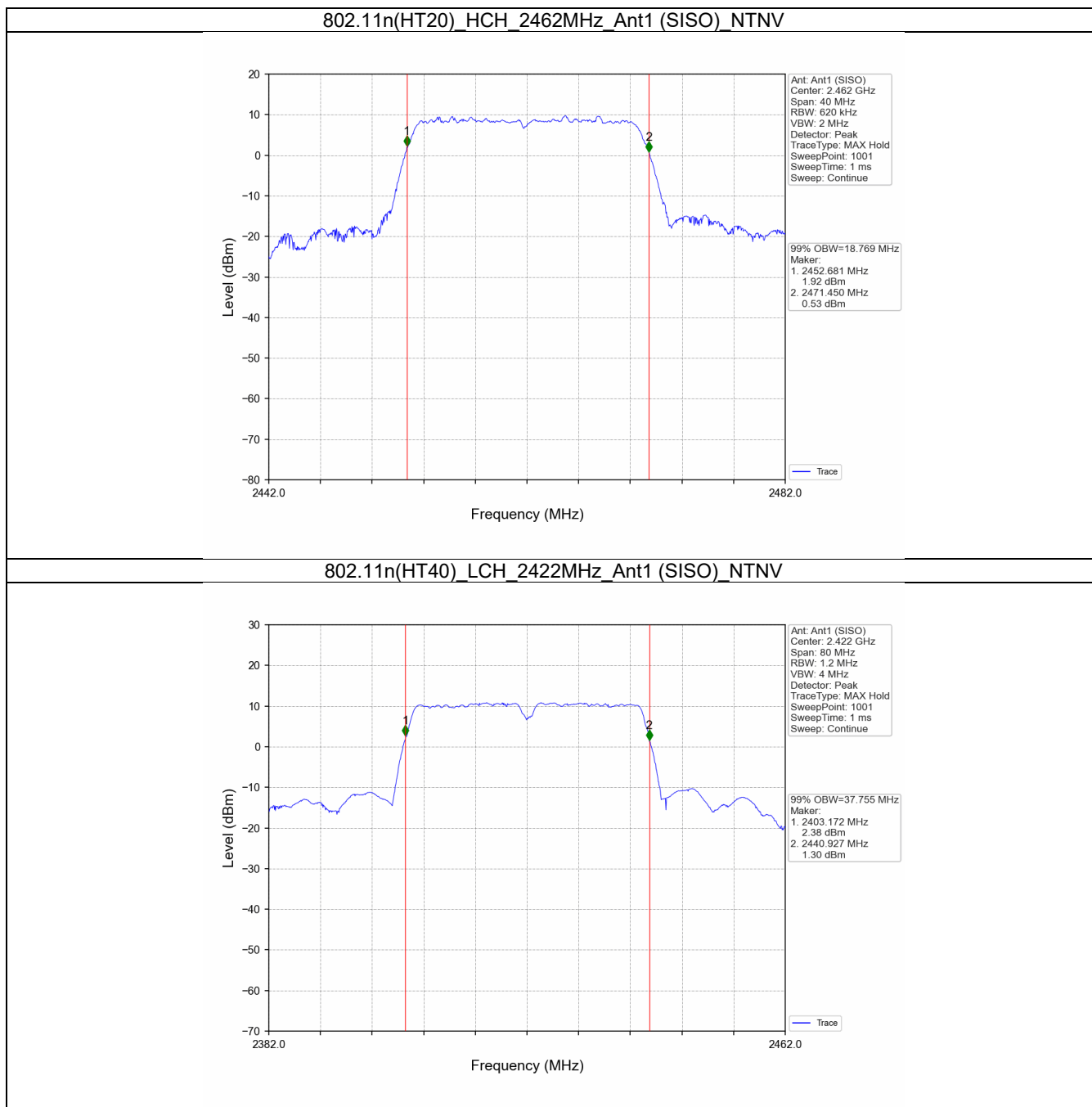


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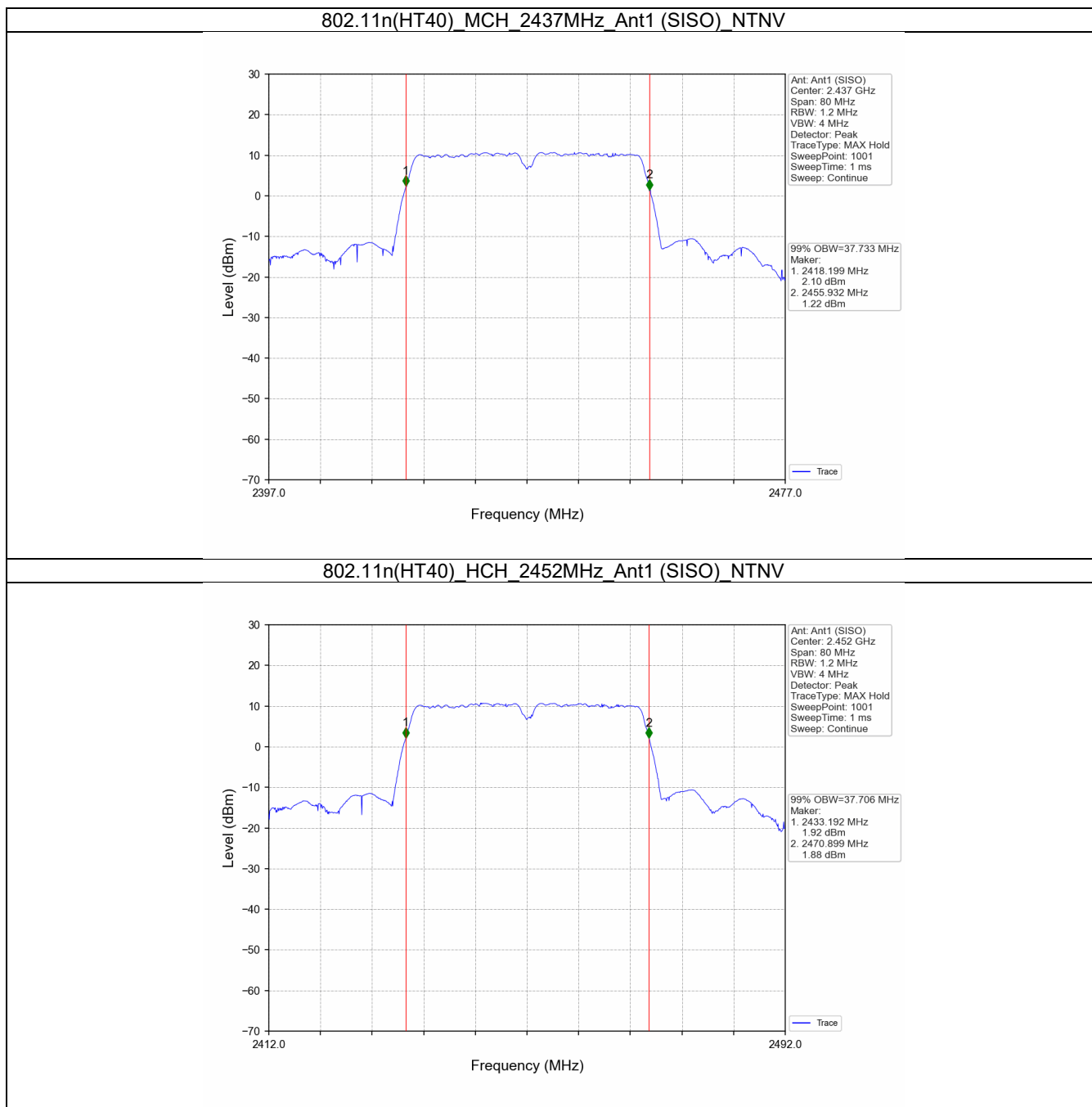
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## 2.2 6dB BW

### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.083	>=0.5	Pass
		2437	1	10.078	>=0.5	Pass
		2462	1	10.080	>=0.5	Pass
802.11g	SISO	2412	1	16.397	>=0.5	Pass
		2437	1	16.400	>=0.5	Pass
		2462	1	16.398	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.640	>=0.5	Pass
		2437	1	17.637	>=0.5	Pass
		2462	1	17.634	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.362	>=0.5	Pass
		2437	1	36.362	>=0.5	Pass
		2452	1	36.364	>=0.5	Pass



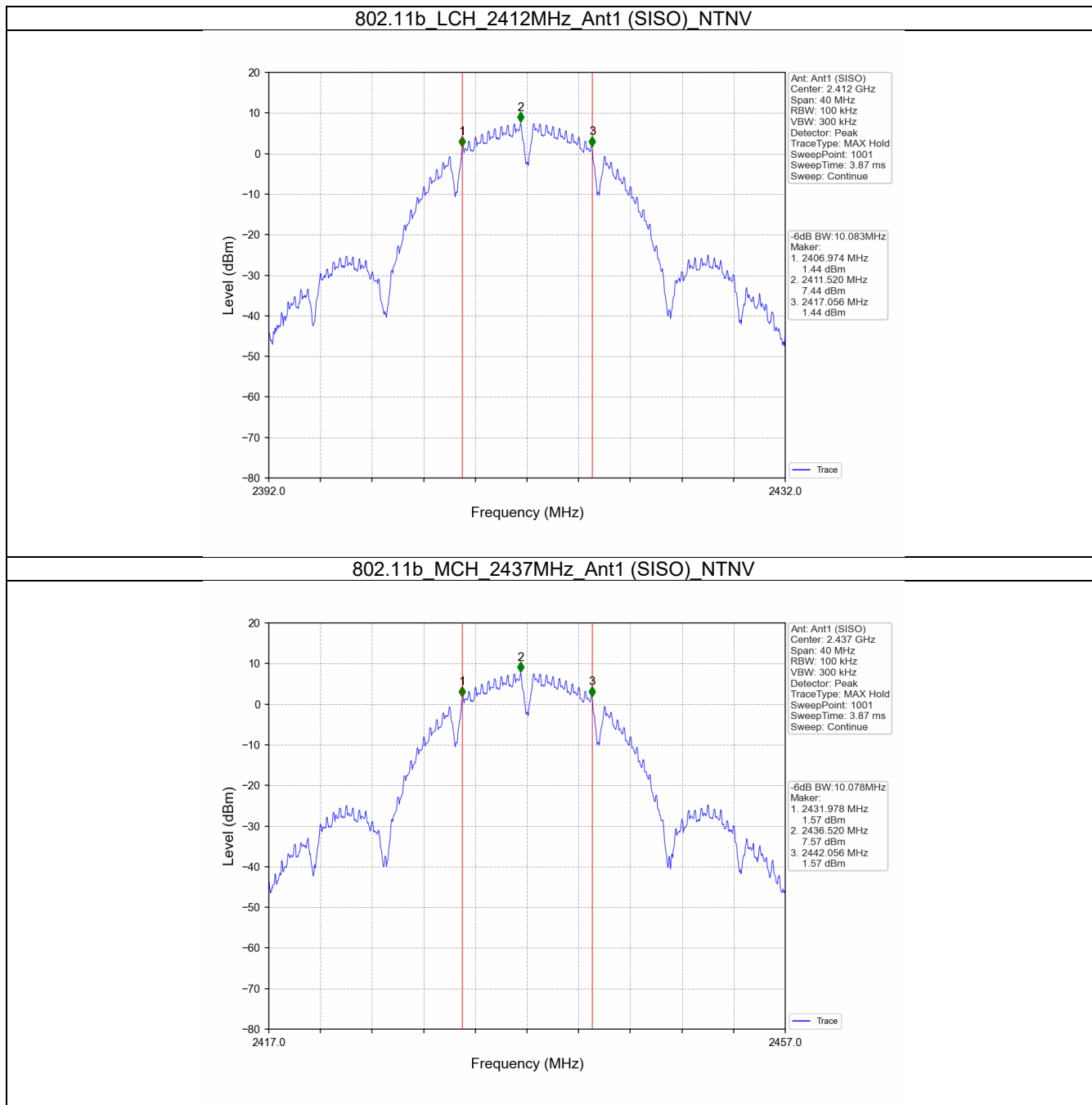
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2.2.2 Test Graph



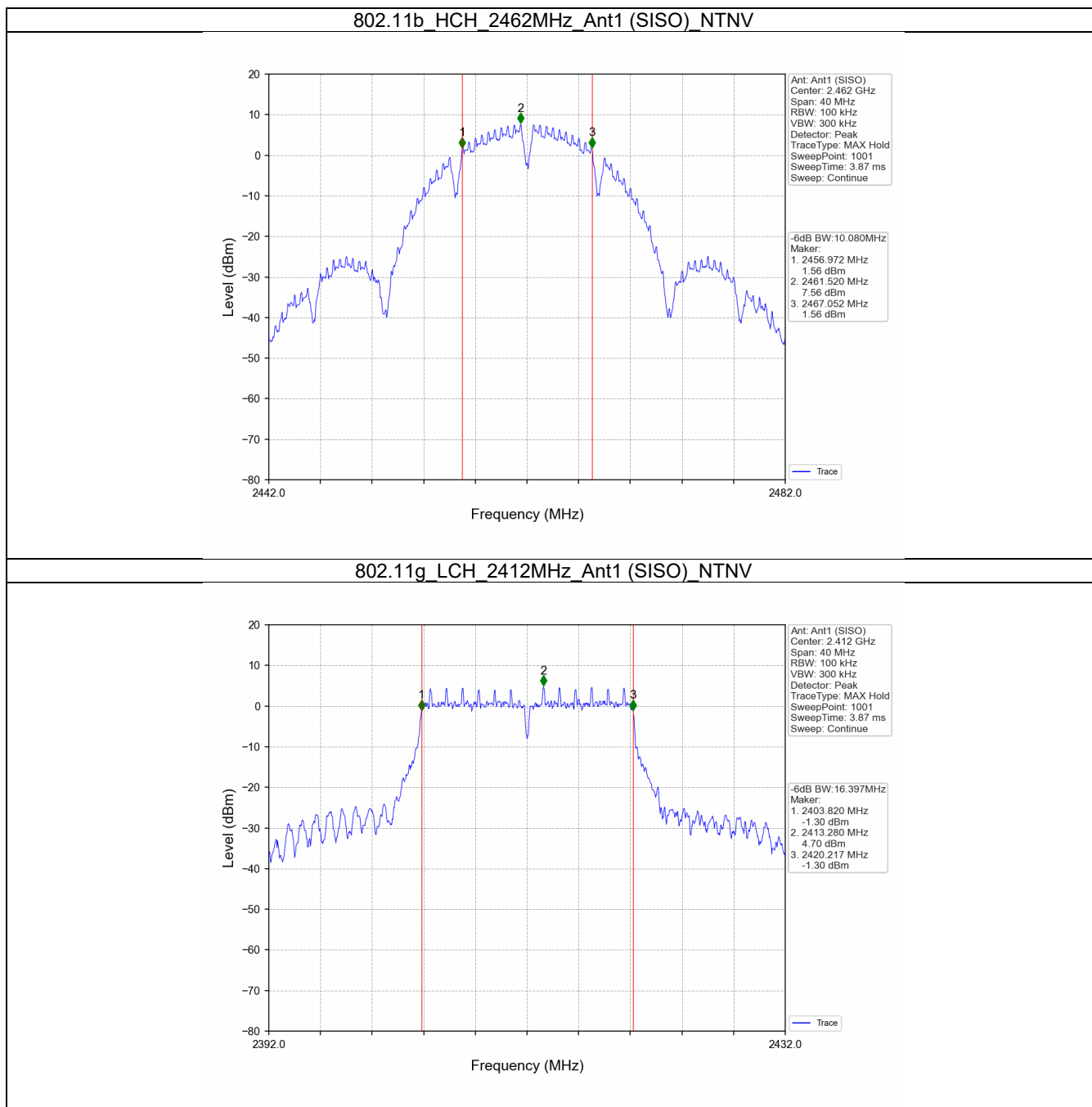
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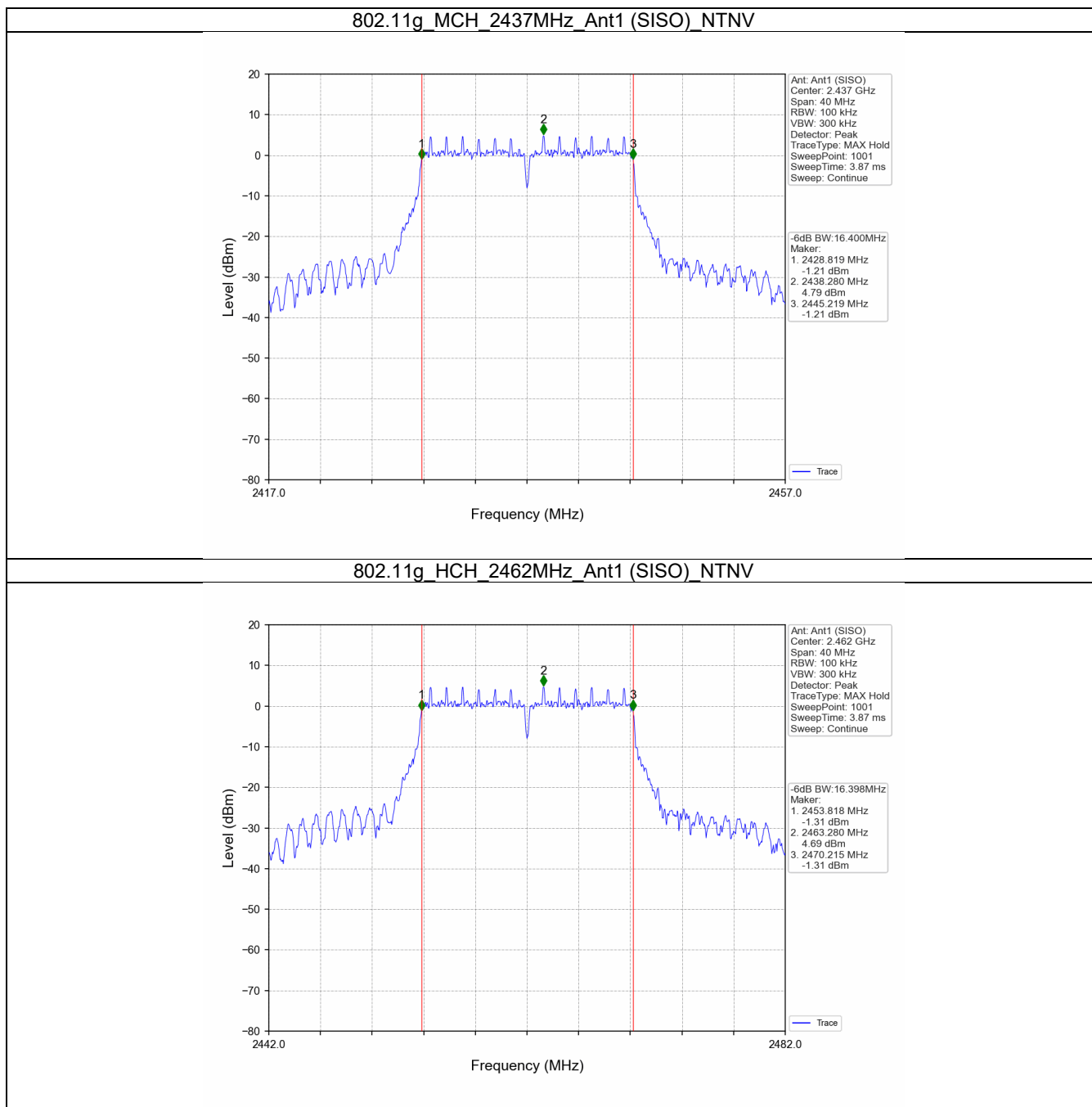


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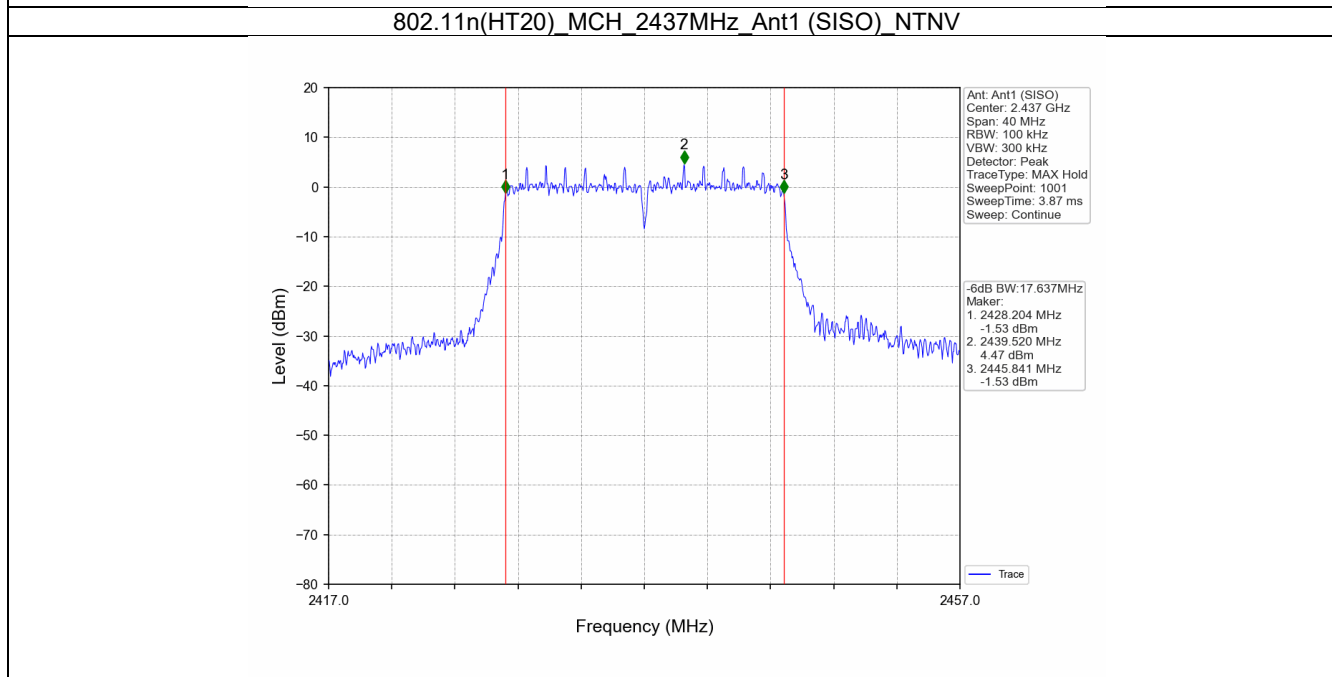
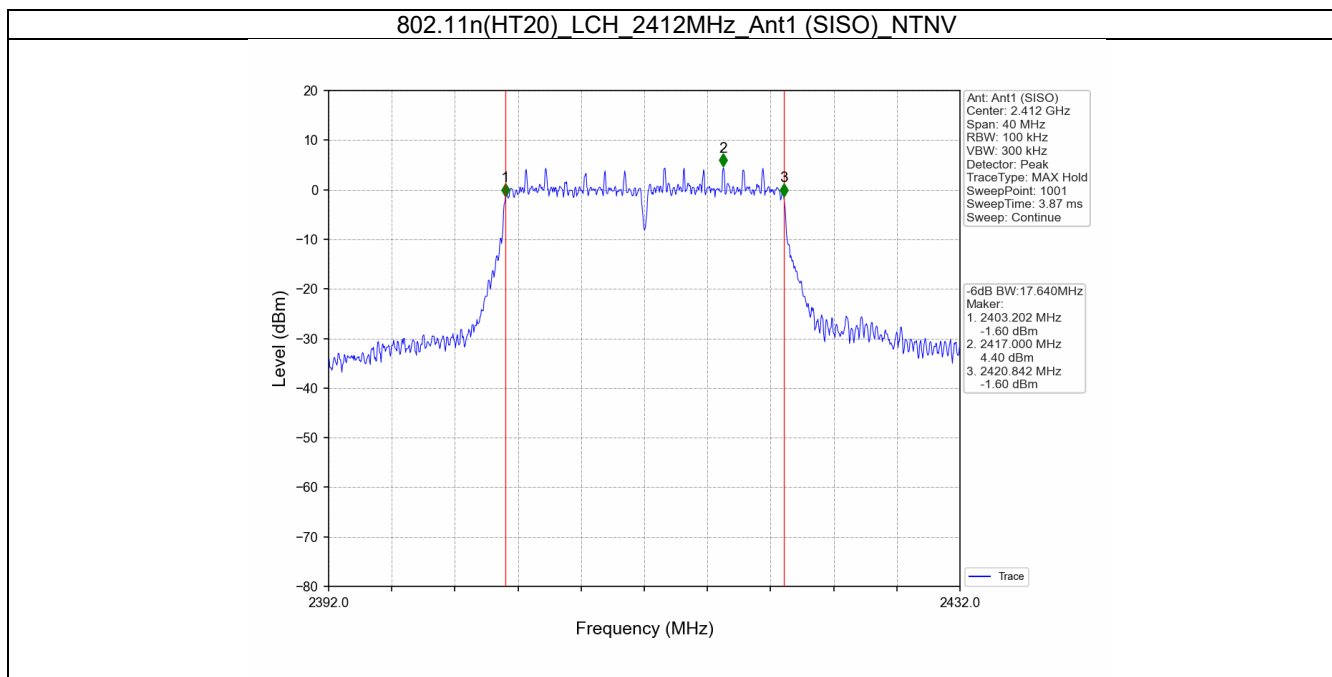


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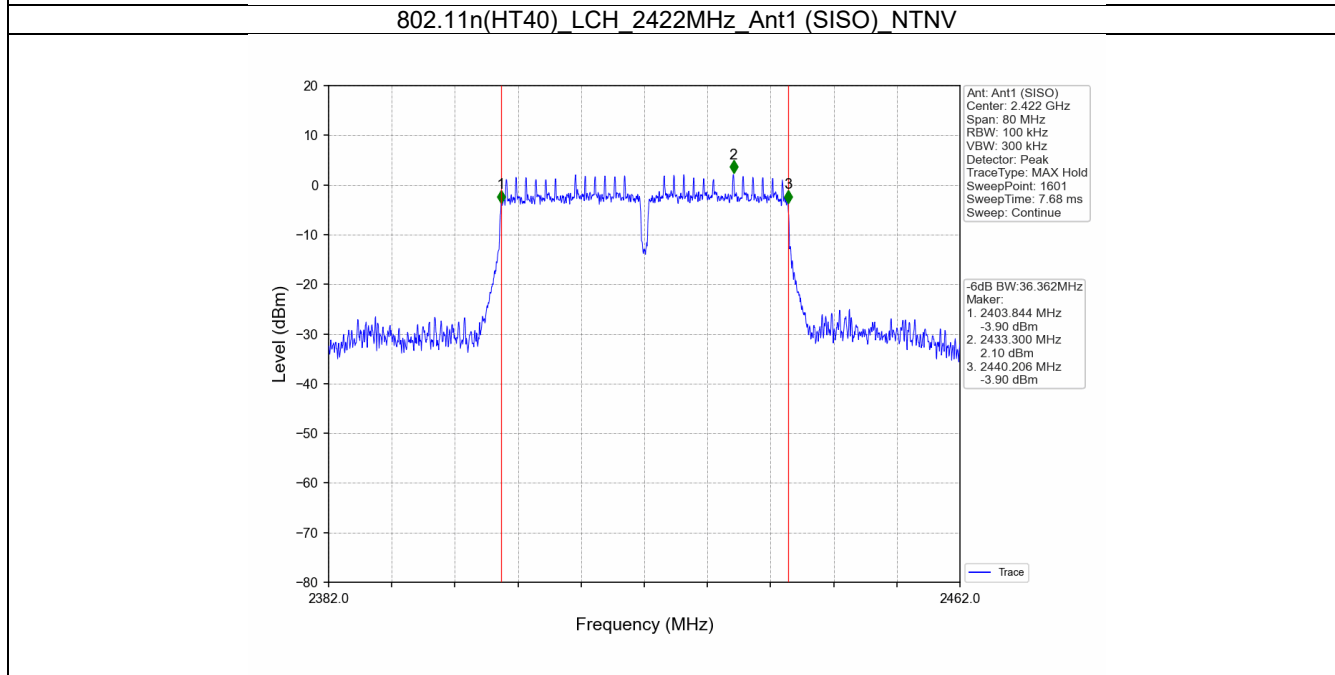
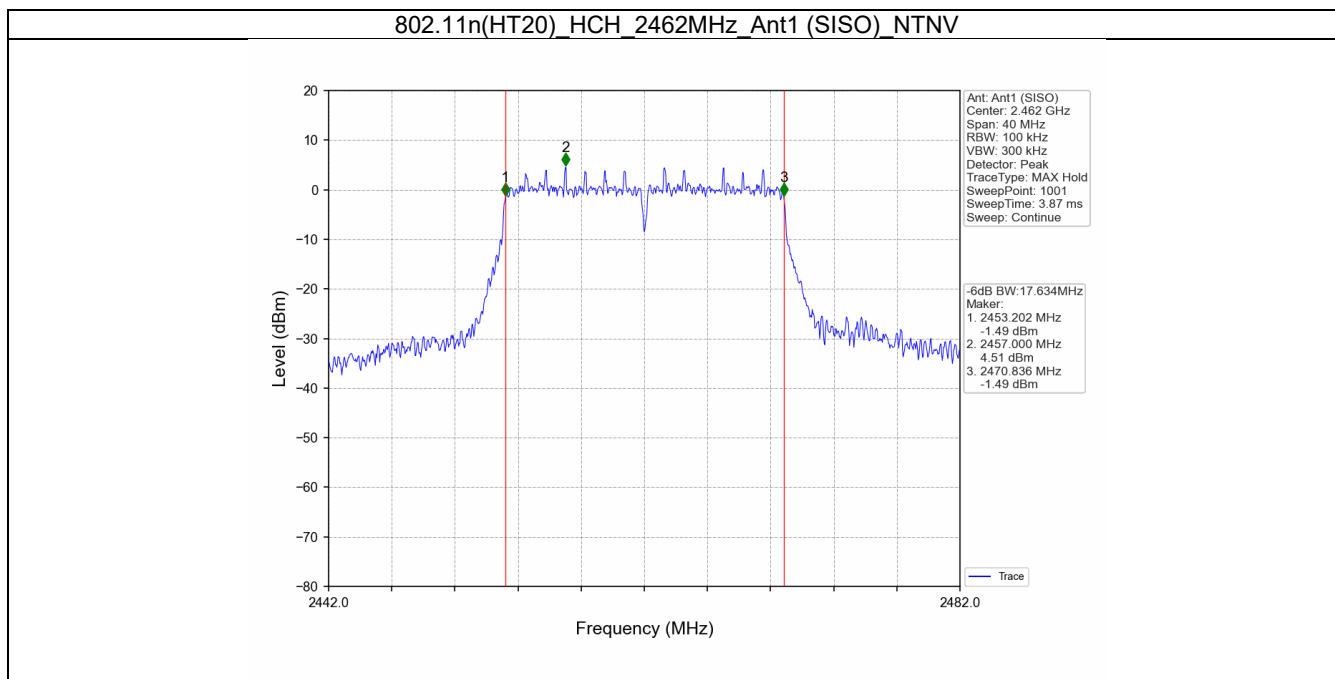


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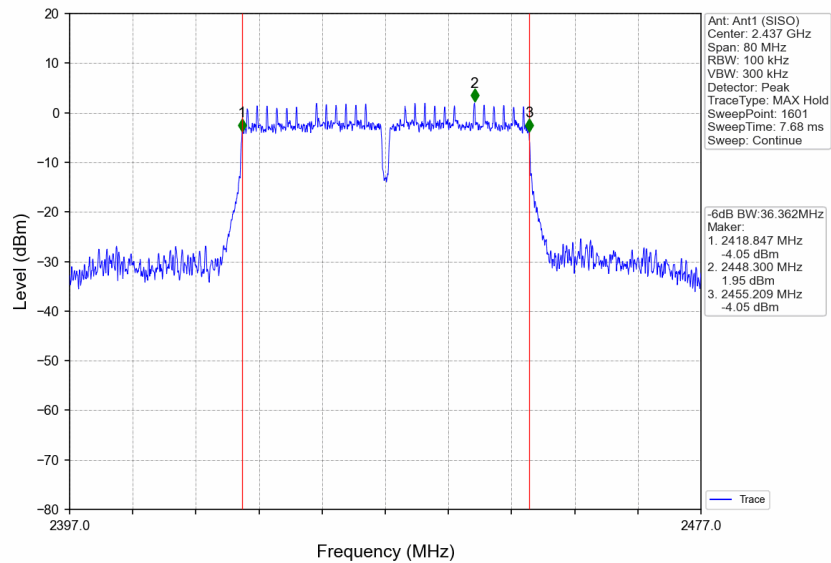
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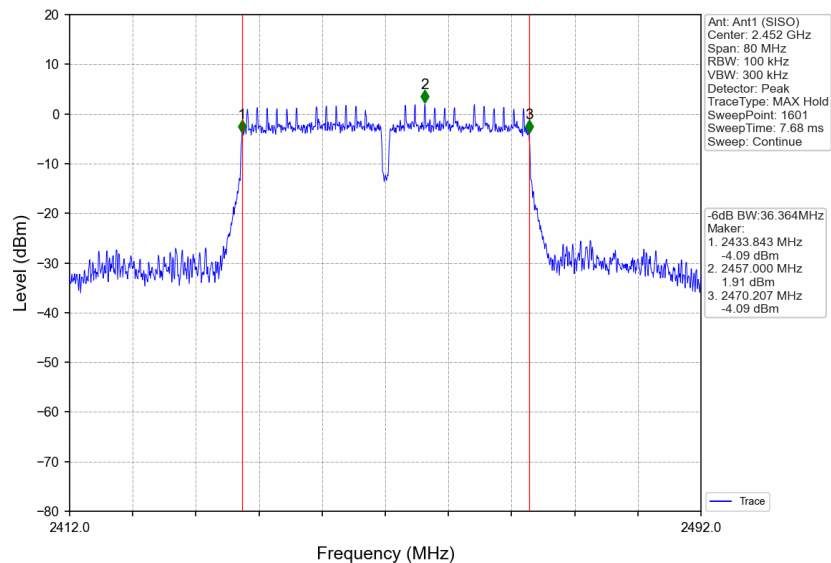
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTV



802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTV



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	19.70	<=30	Pass
		2437	19.84	<=30	Pass
		2462	19.84	<=30	Pass
802.11g	SISO	2412	23.69	<=30	Pass
		2437	23.79	<=30	Pass
		2462	23.73	<=30	Pass
802.11n (HT20)	SISO	2412	23.47	<=30	Pass
		2437	23.57	<=30	Pass
		2462	23.52	<=30	Pass
802.11n (HT40)	SISO	2422	24.08	<=30	Pass
		2437	23.97	<=30	Pass
		2452	23.98	<=30	Pass

Note1: Antenna Gain: Ant1: 1.50dBi;

### 4. Maximum Power Spectral Density

#### 4.1 PSD

##### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-9.13	<=8	Pass
		2437	-8.51	<=8	Pass
		2462	-9.91	<=8	Pass
802.11g	SISO	2412	-11.44	<=8	Pass
		2437	-10.89	<=8	Pass
		2462	-11.55	<=8	Pass
802.11n (HT20)	SISO	2412	-11.46	<=8	Pass
		2437	-12.03	<=8	Pass
		2462	-11.75	<=8	Pass
802.11n (HT40)	SISO	2422	-13.29	<=8	Pass
		2437	-13.52	<=8	Pass
		2452	-13.56	<=8	Pass

Note1: Antenna Gain: Ant1: 1.50dBi;



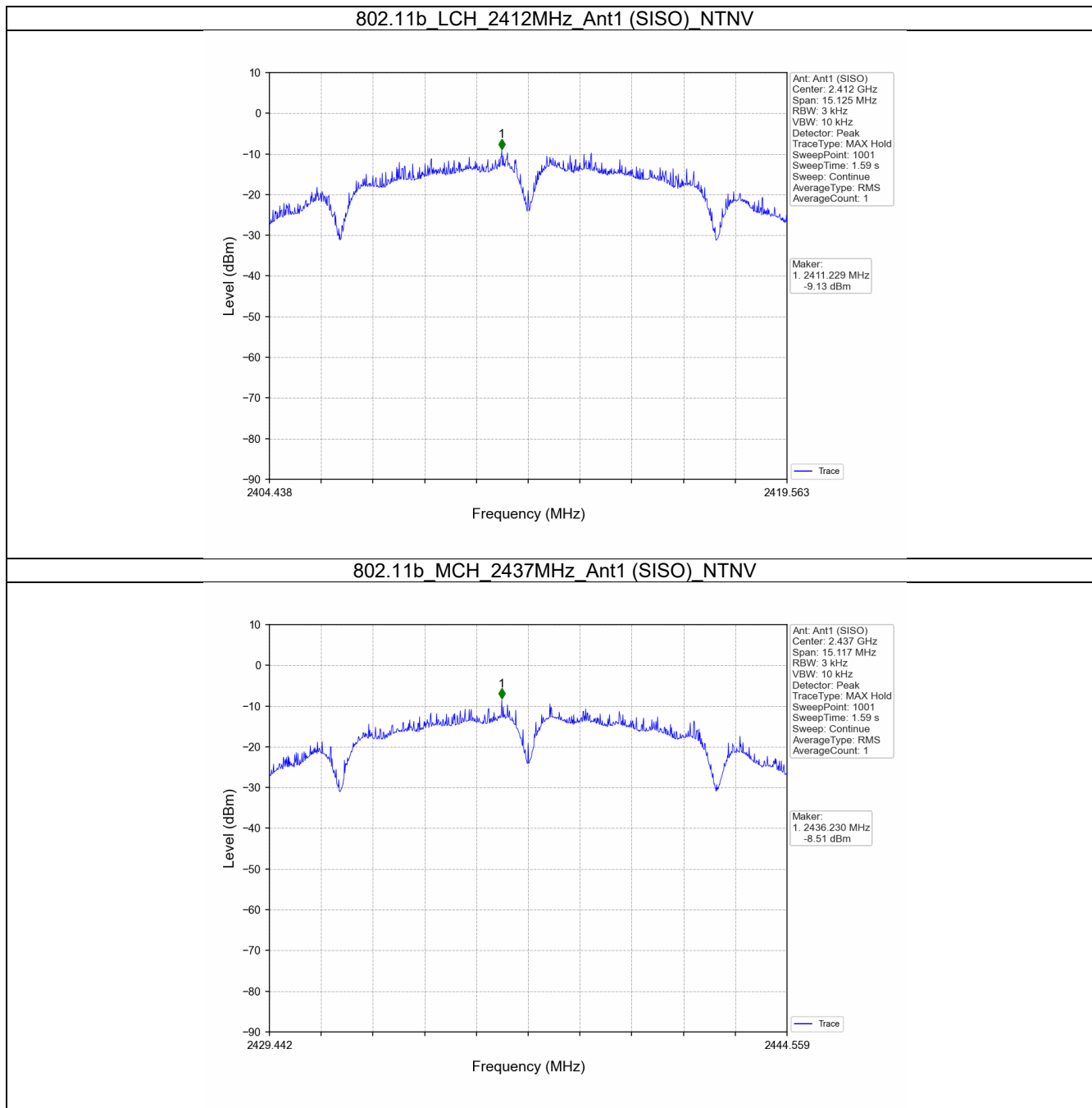
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4.1.2 Test Graph

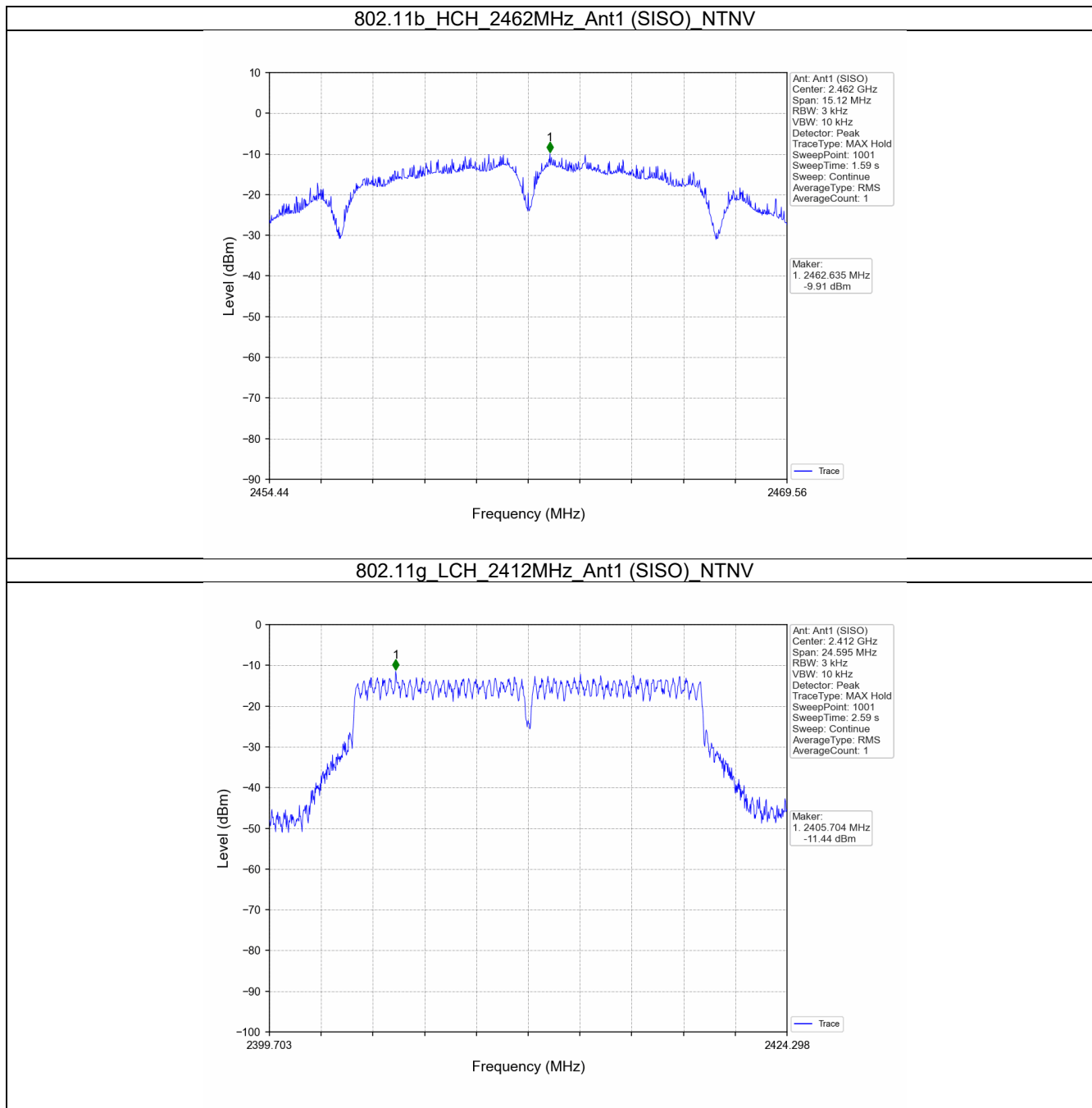


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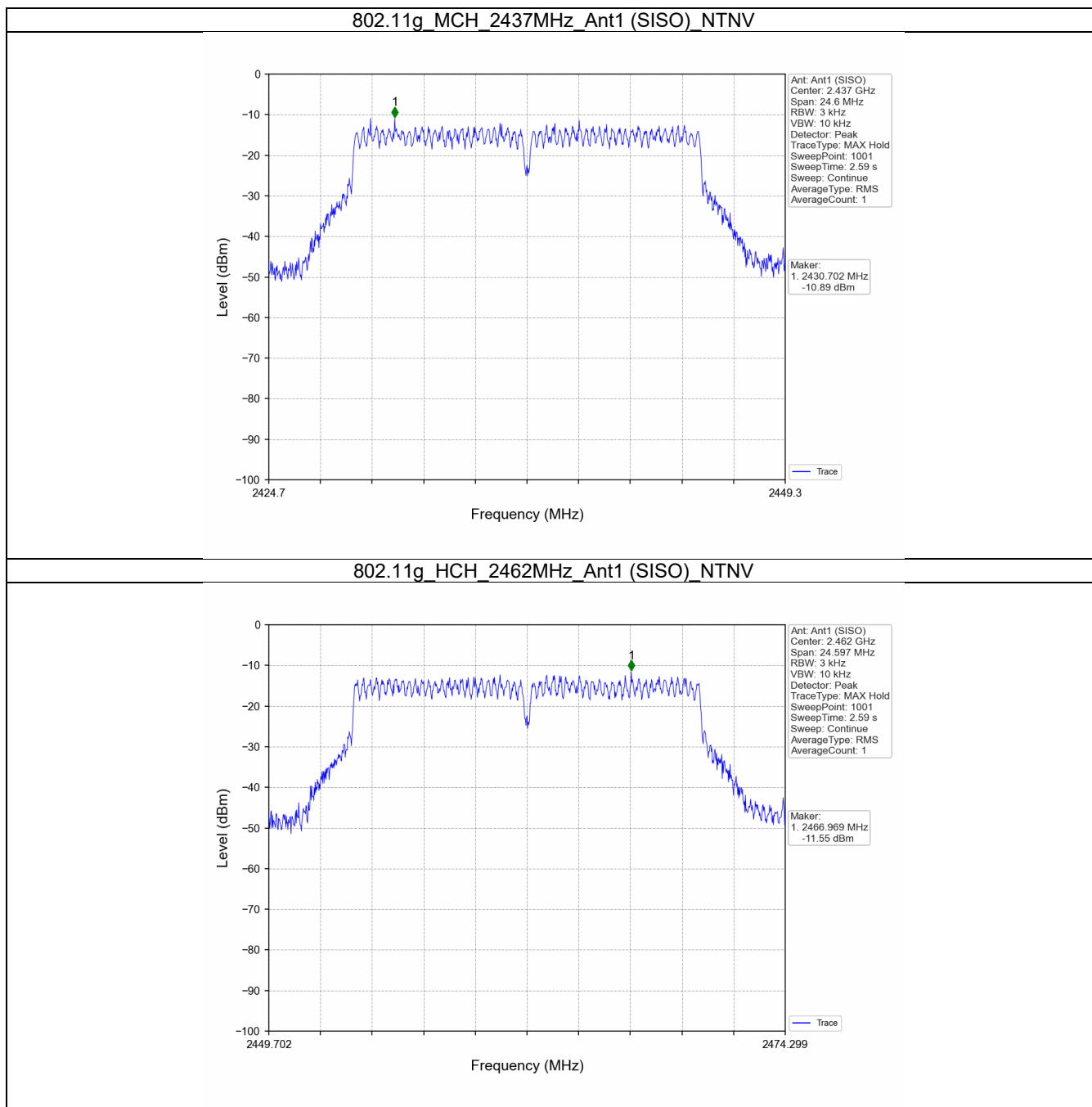


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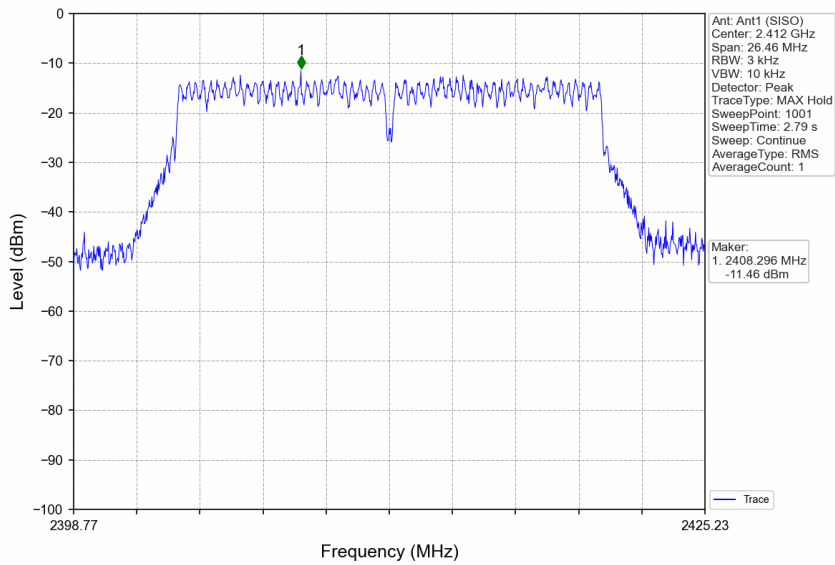
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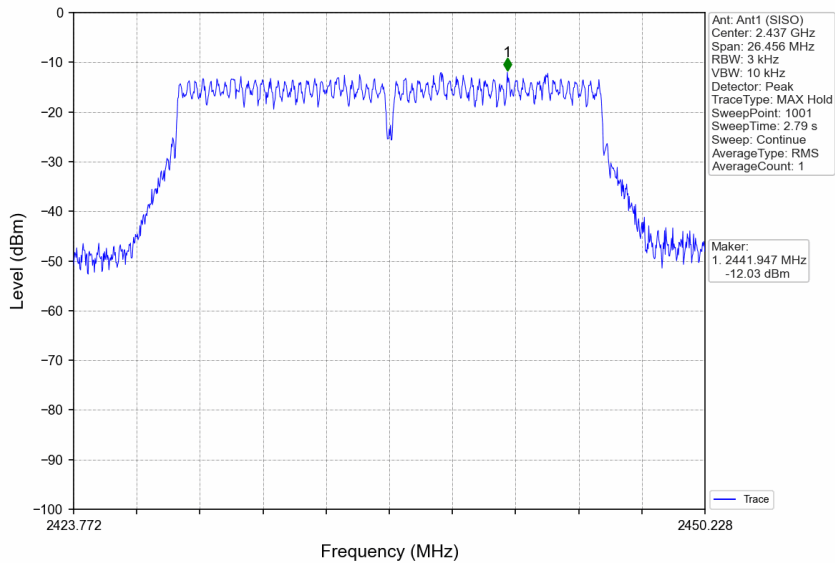
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802.11n(HT20) LCH\_2412MHz\_Ant1 (SISO) NTV



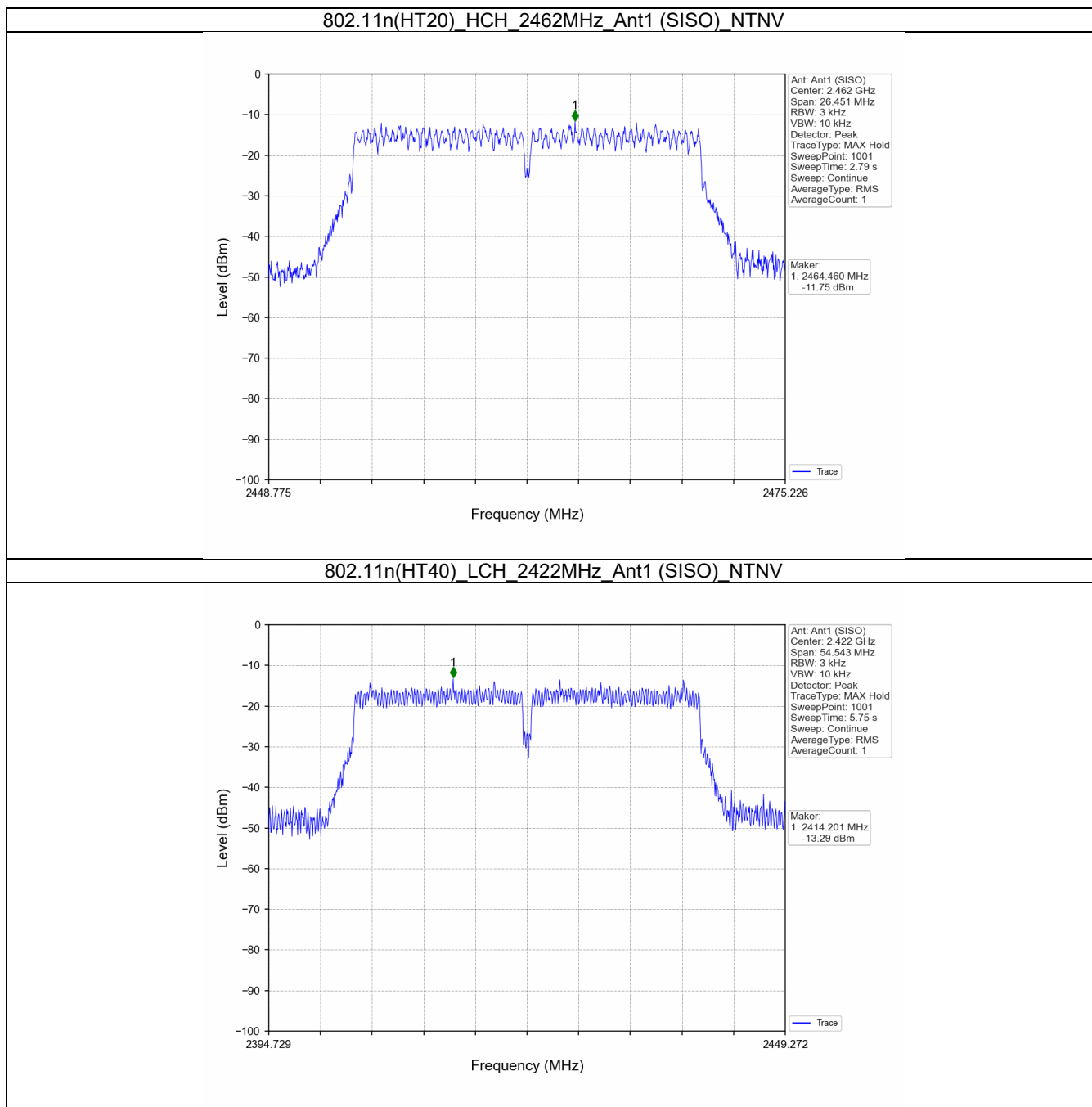
802.11n(HT20) MCH\_2437MHz\_Ant1 (SISO) NTV



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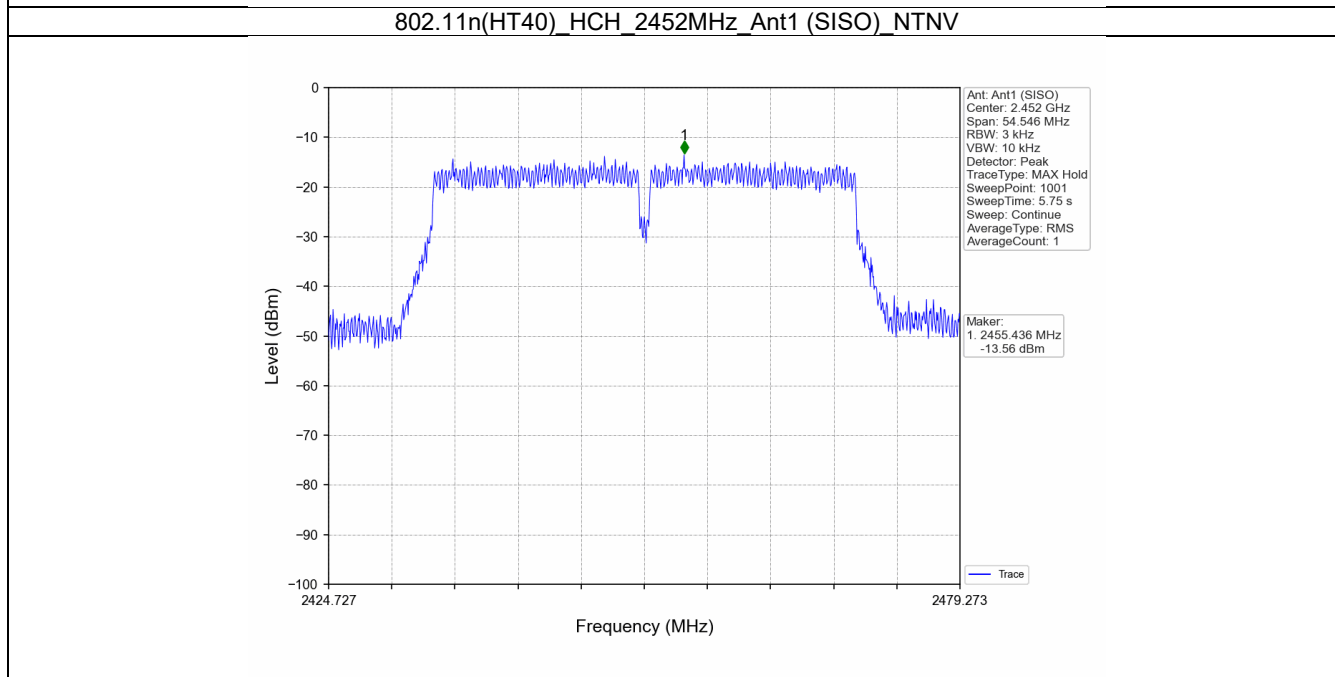
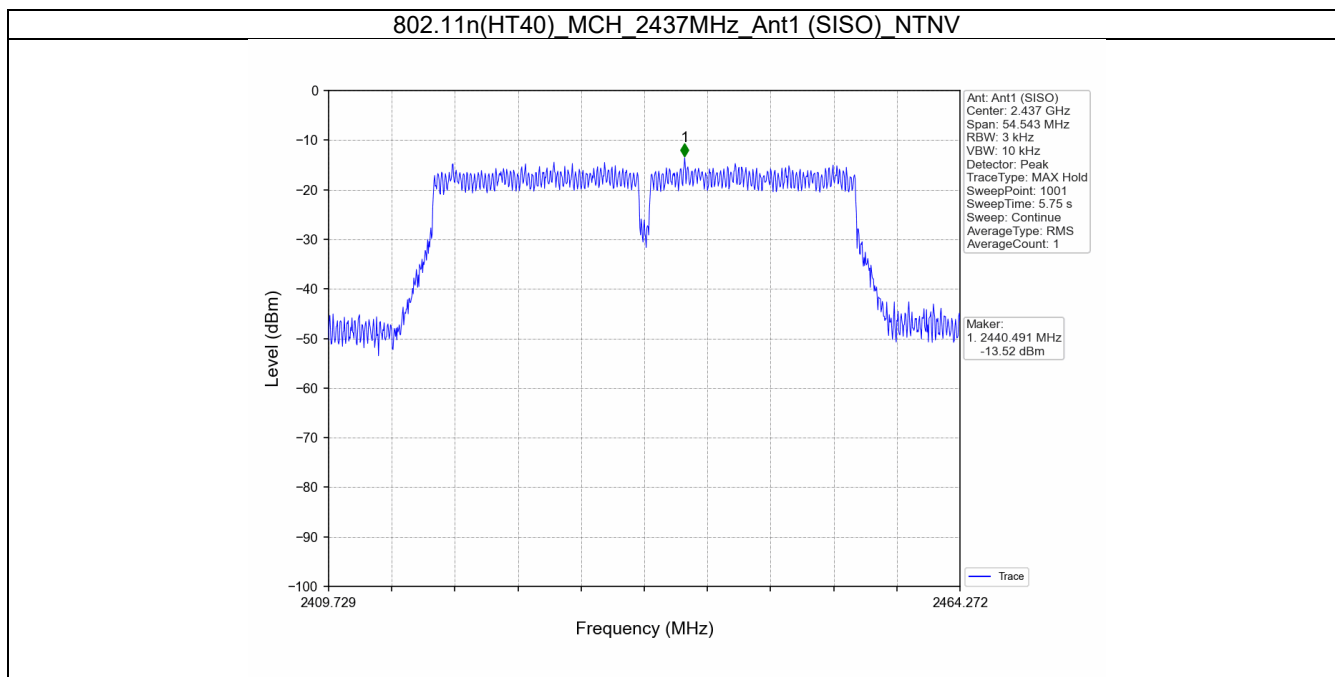


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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	7.22
		2437	1	7.36
		2462	1	7.36
802.11g	SISO	2412	1	4.50
		2437	1	4.65
		2462	1	4.53
802.11n (HT20)	SISO	2412	1	4.28
		2437	1	4.35
		2462	1	4.34
802.11n (HT40)	SISO	2422	1	1.82
		2437	1	1.52
		2452	1	1.97

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.

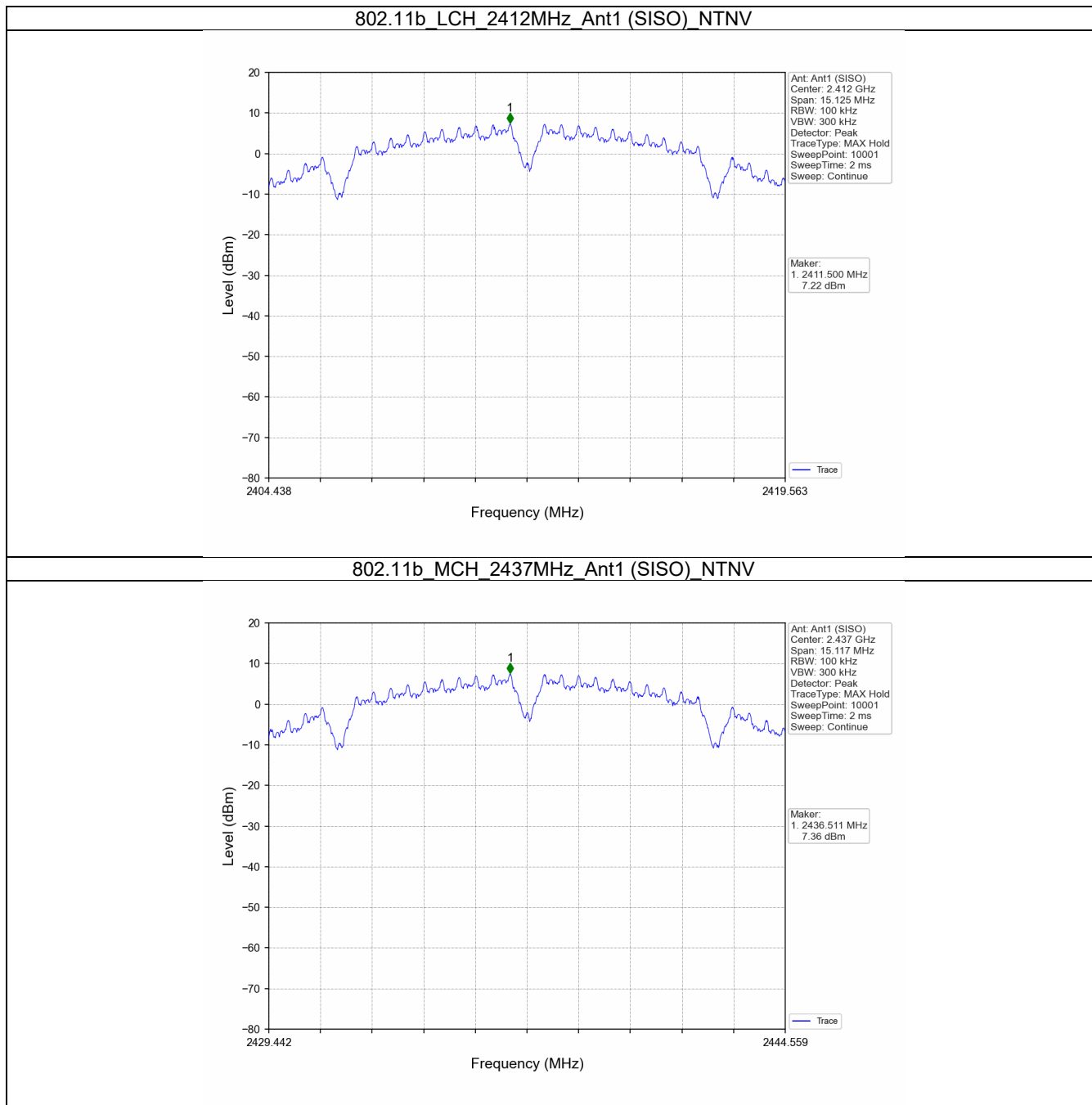


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5.1.2 Test Graph



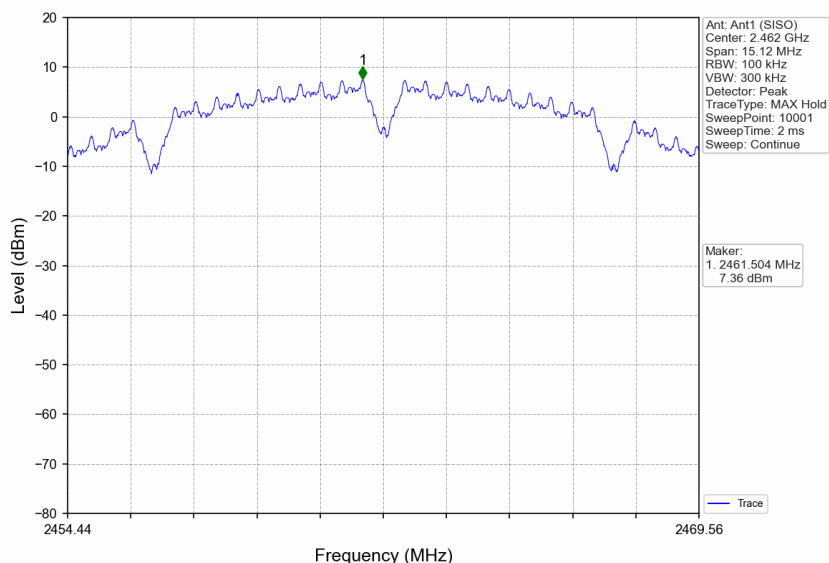
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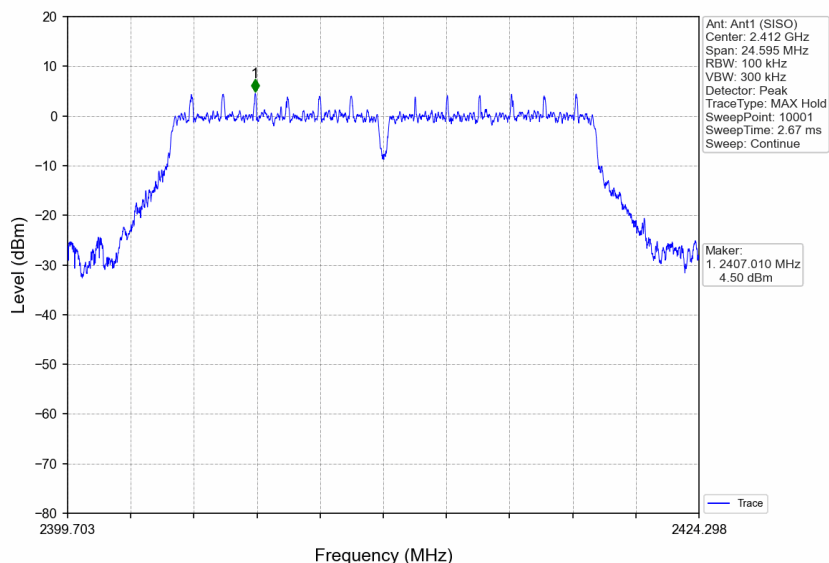
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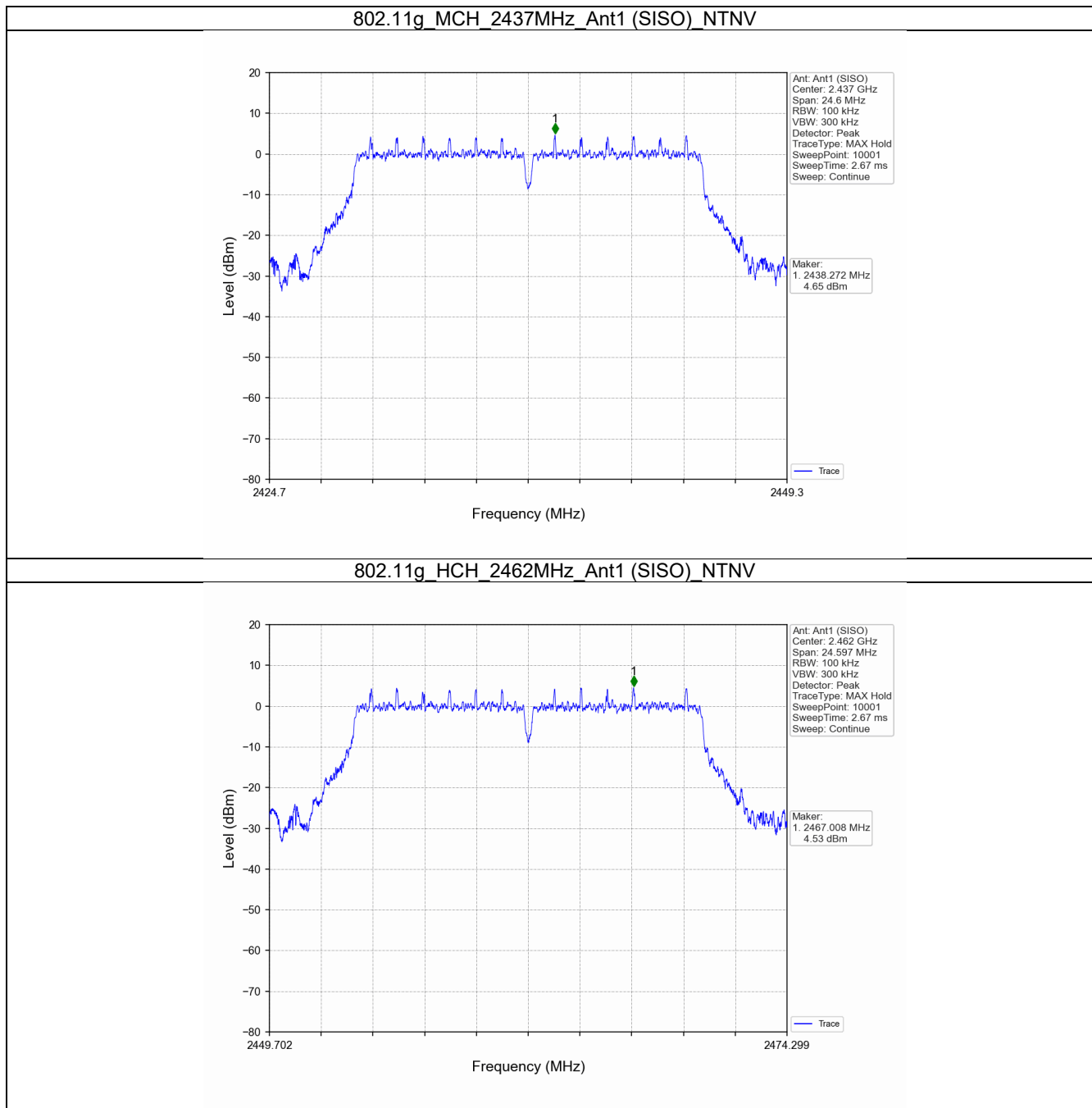
802.11b\_HCH\_2462MHz\_Ant1 (SISO) NTN



802.11g\_LCH\_2412MHz\_Ant1 (SISO) NTN



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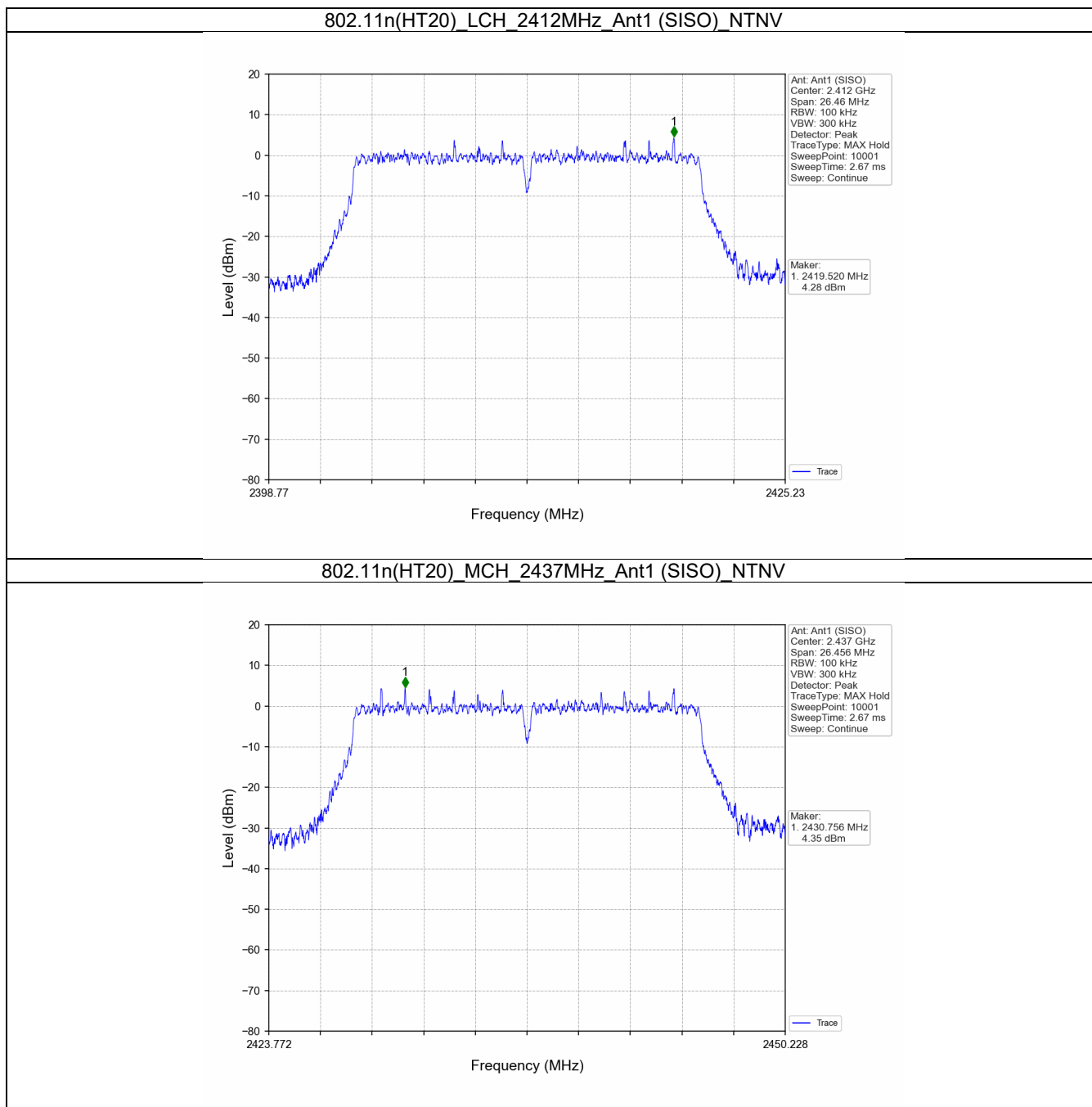
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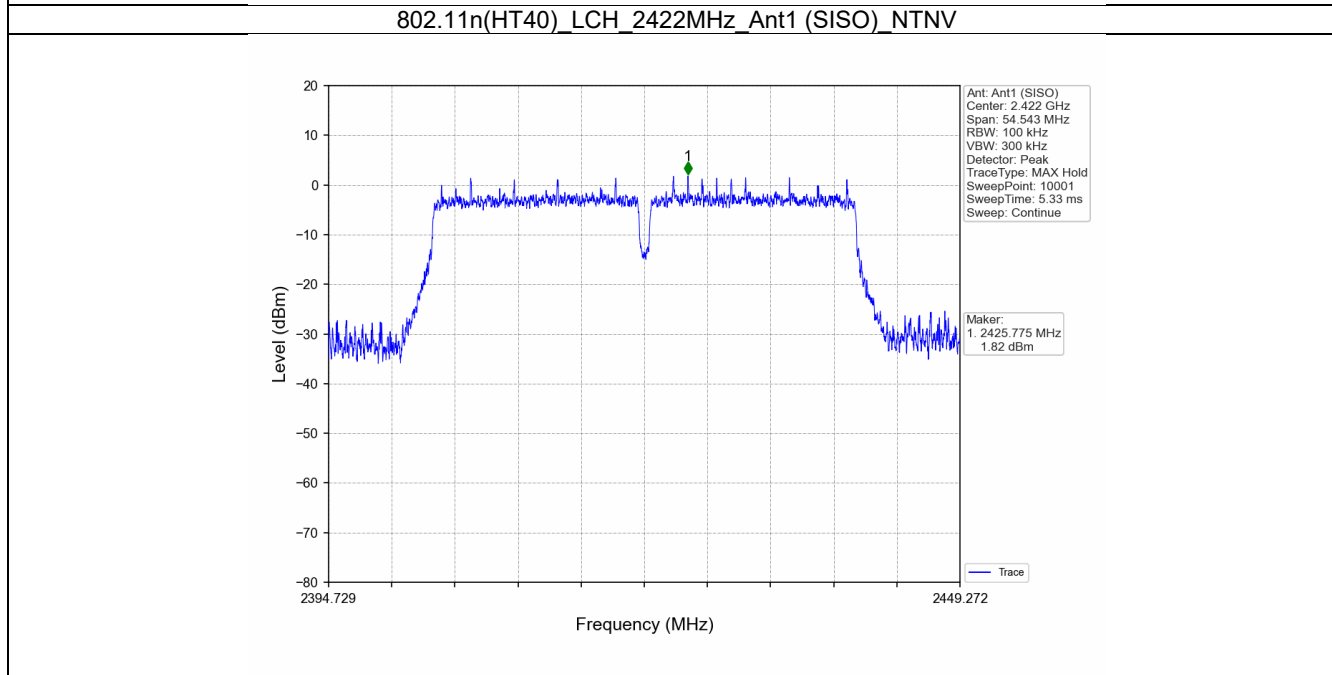
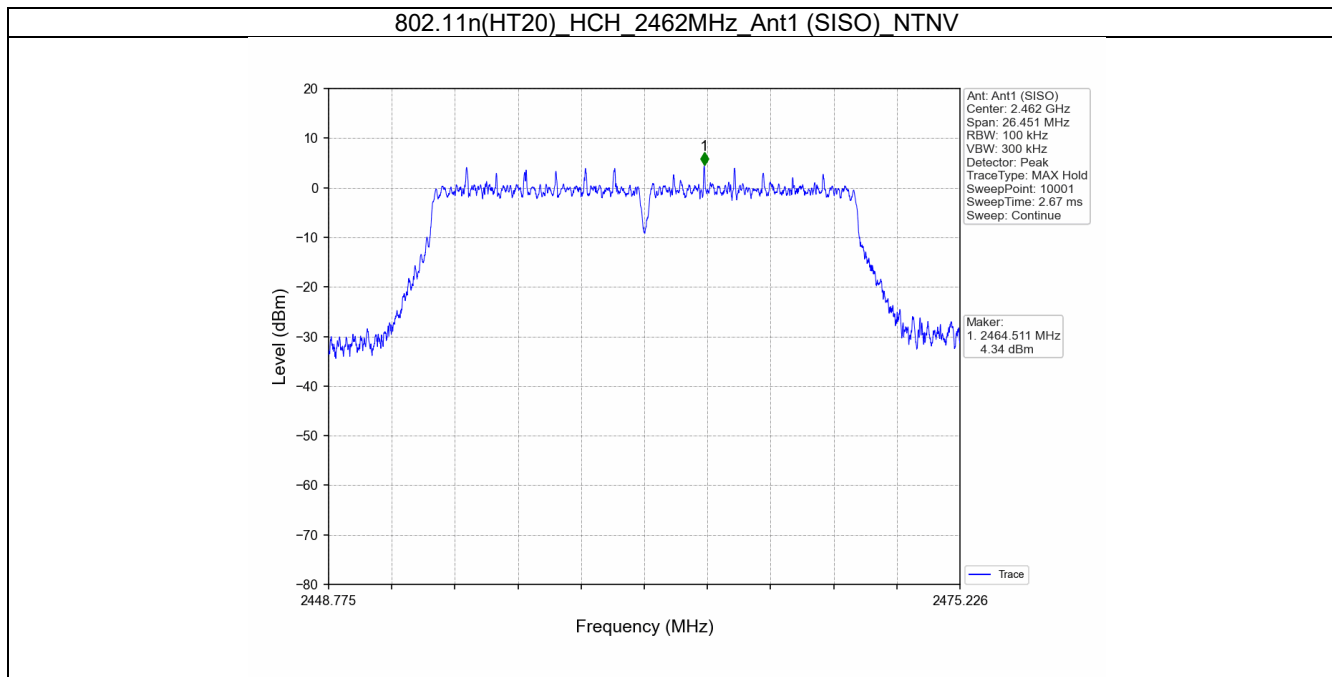


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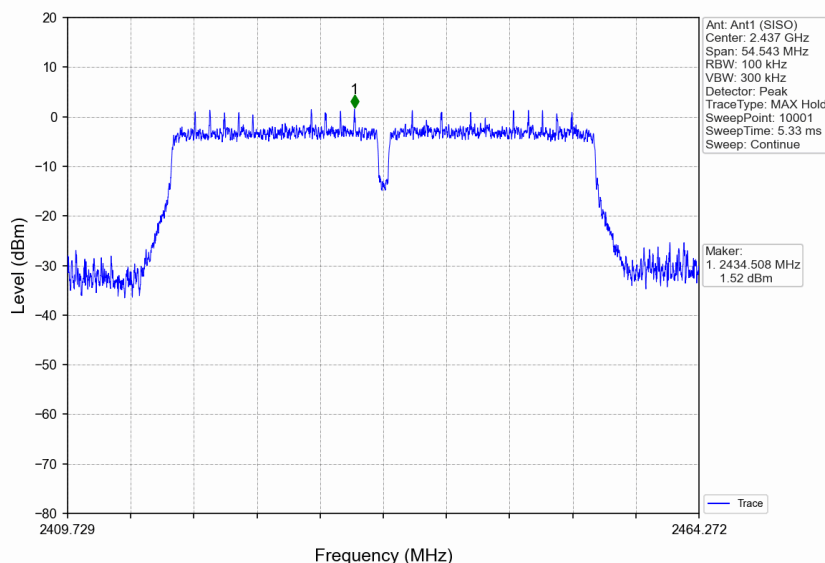
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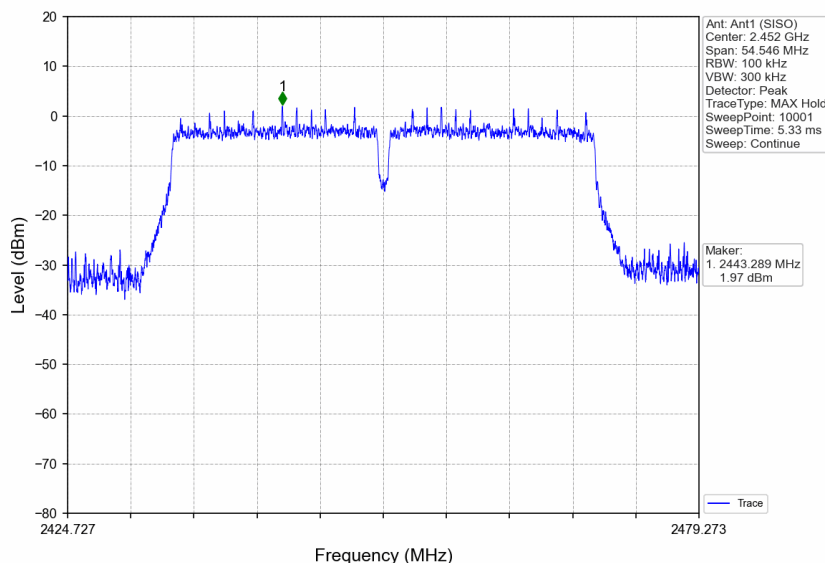
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTV



802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTV



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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	7.36	-12.64	Pass
		2437	1	7.36	-12.64	Pass
		2462	1	7.36	-12.64	Pass
802.11g	SISO	2412	1	4.65	-15.35	Pass
		2437	1	4.65	-15.35	Pass
		2462	1	4.65	-15.35	Pass
802.11n (HT20)	SISO	2412	1	4.35	-15.65	Pass
		2437	1	4.35	-15.65	Pass
		2462	1	4.35	-15.65	Pass
802.11n (HT40)	SISO	2422	1	1.97	-18.03	Pass
		2437	1	1.97	-18.03	Pass
		2452	1	1.97	-18.03	Pass

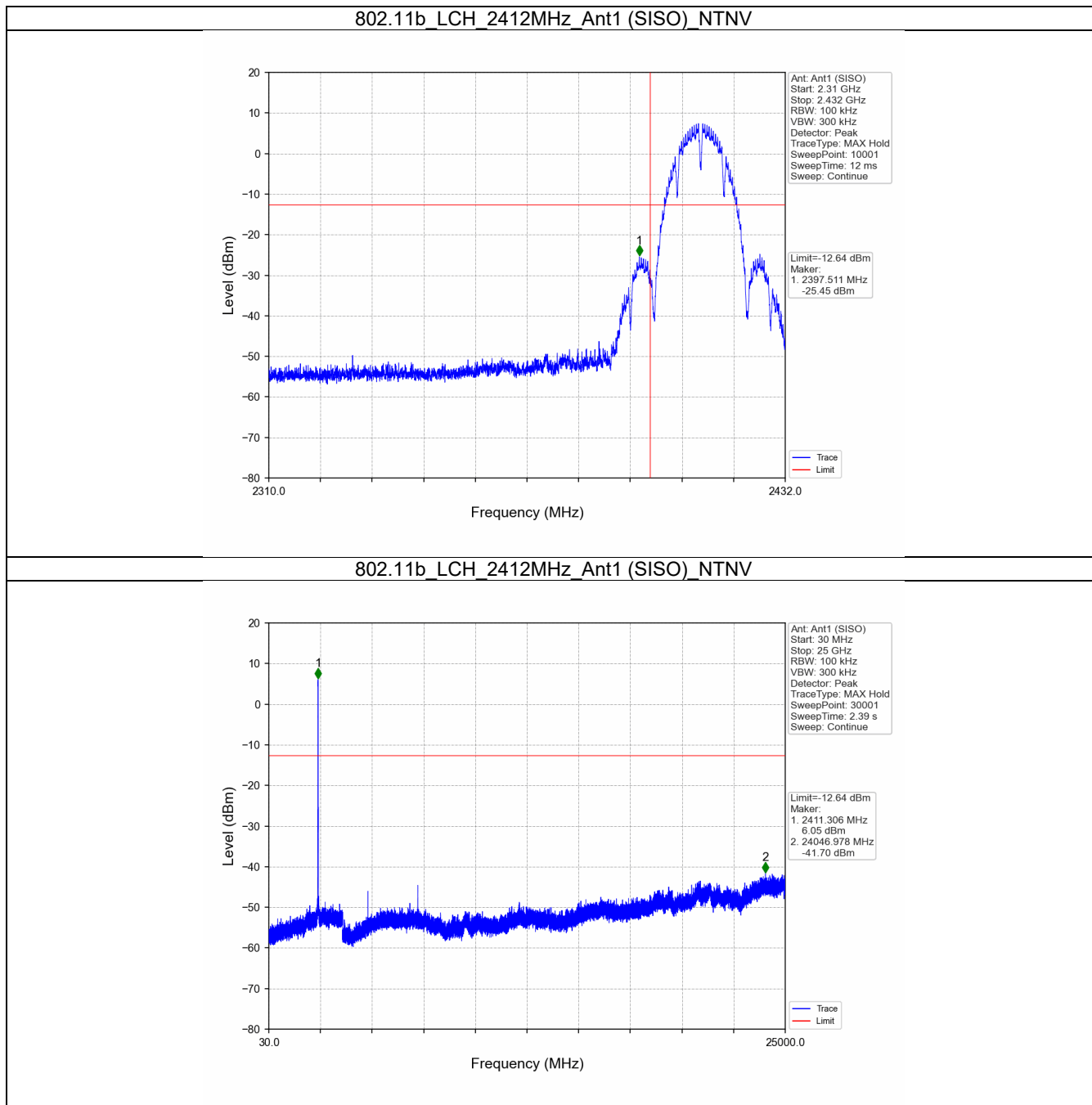
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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5.2.2 Test Graph



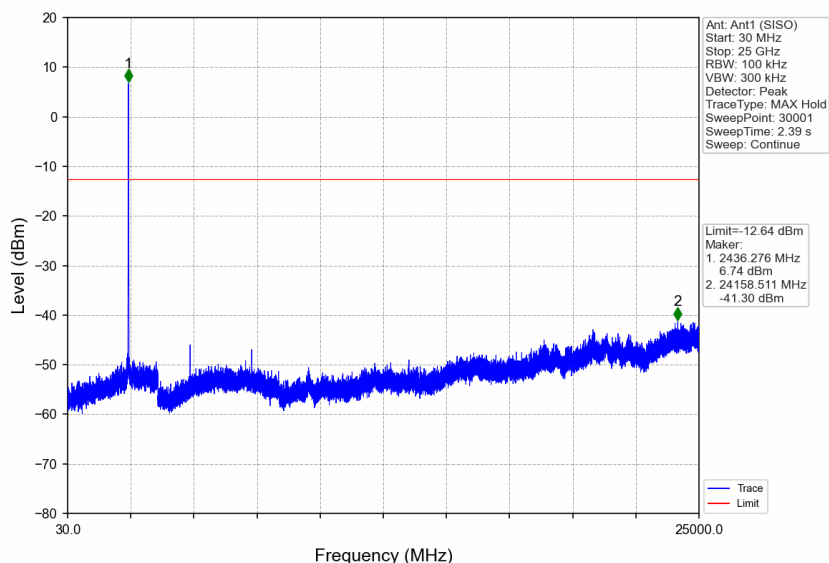
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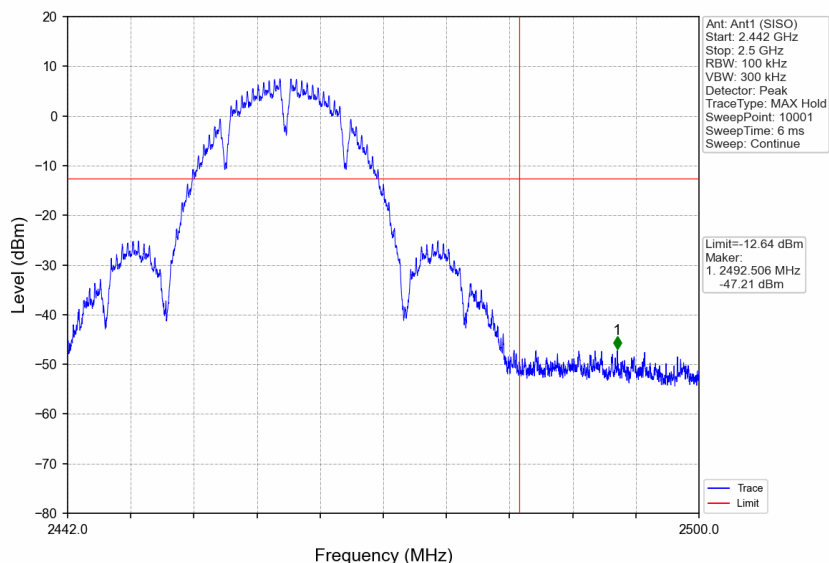
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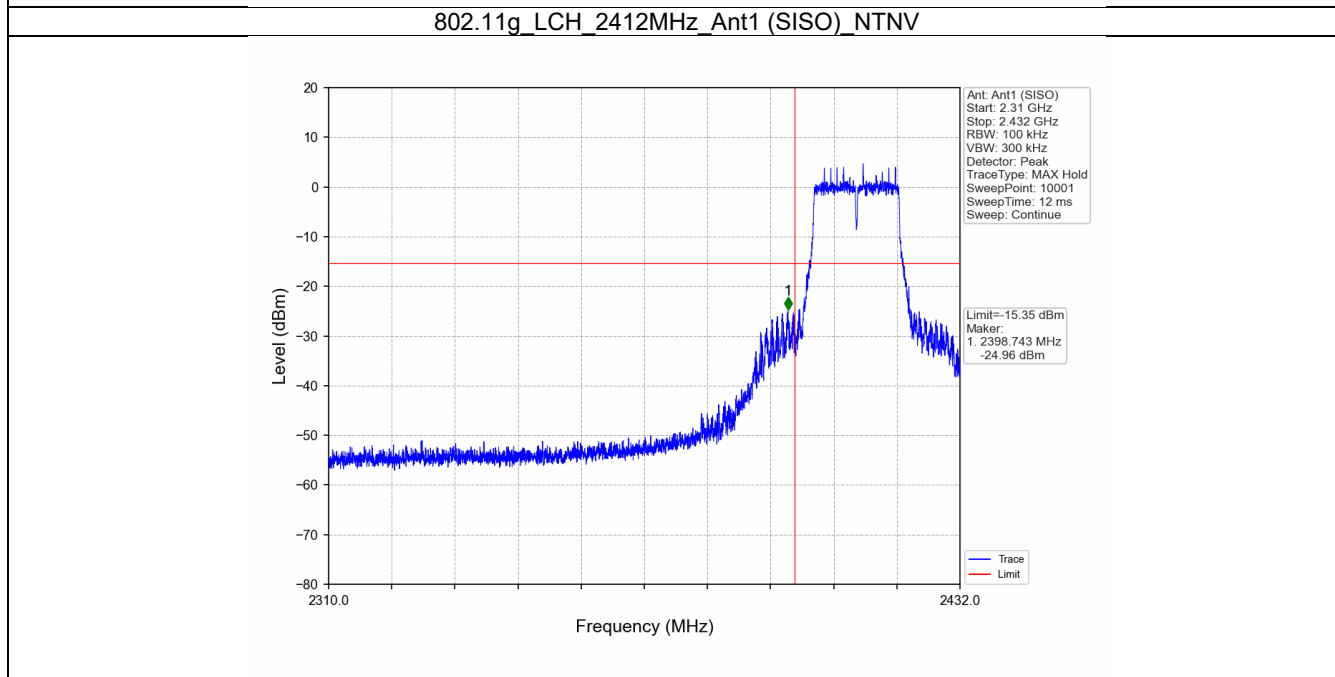
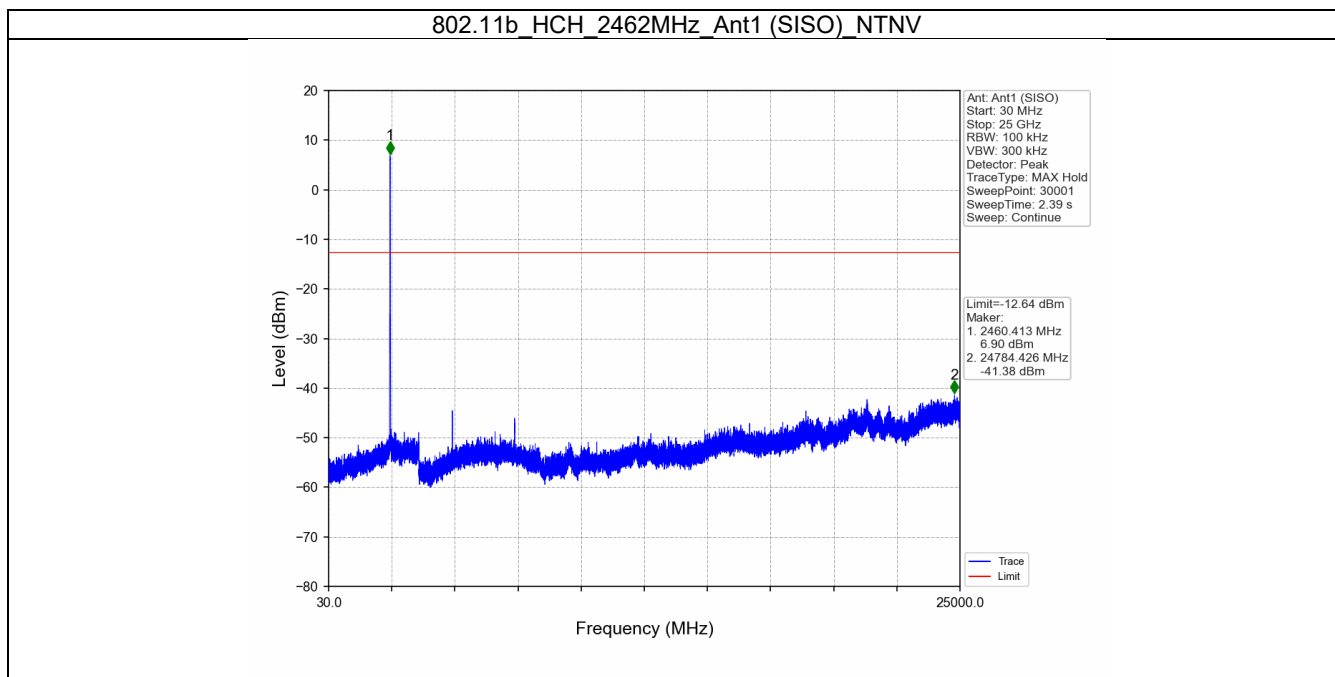
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802.11b\_HCH\_2462MHz\_Ant1 (SISO) NTN



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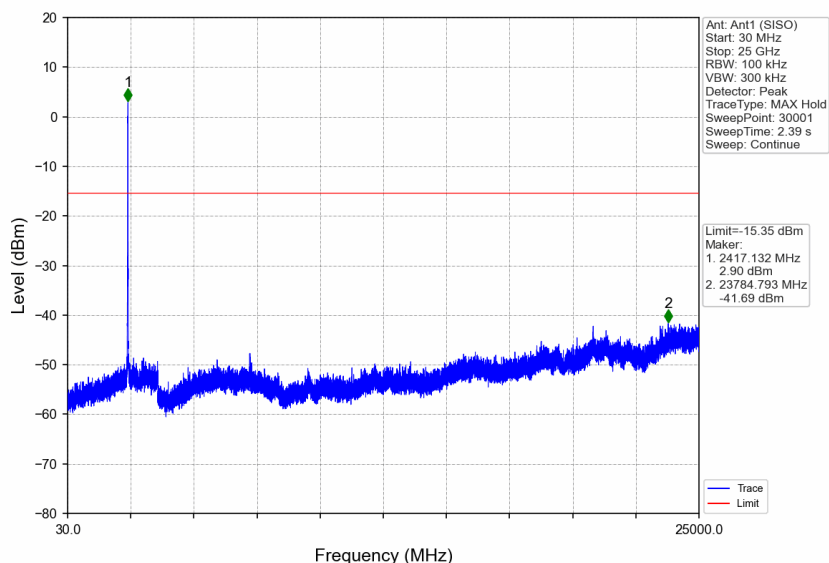


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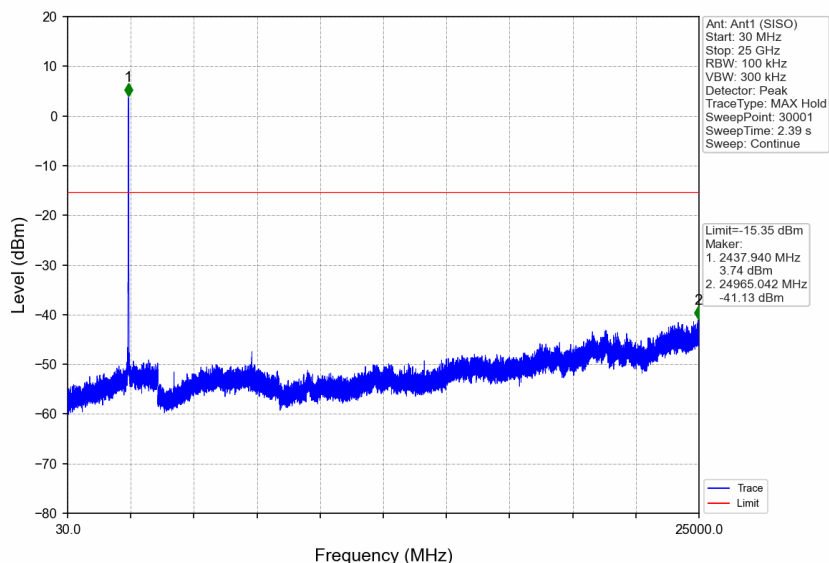
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802.11g\_LCH\_2412MHz\_Ant1 (SISO) NTN

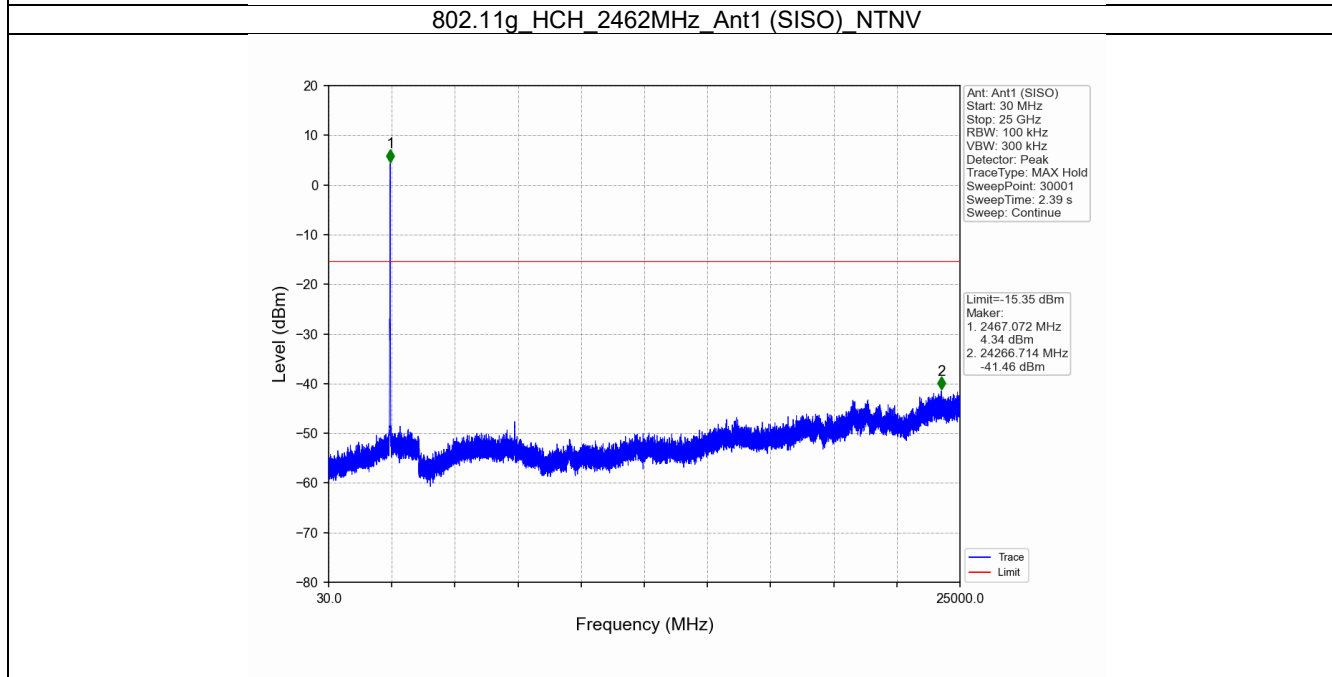
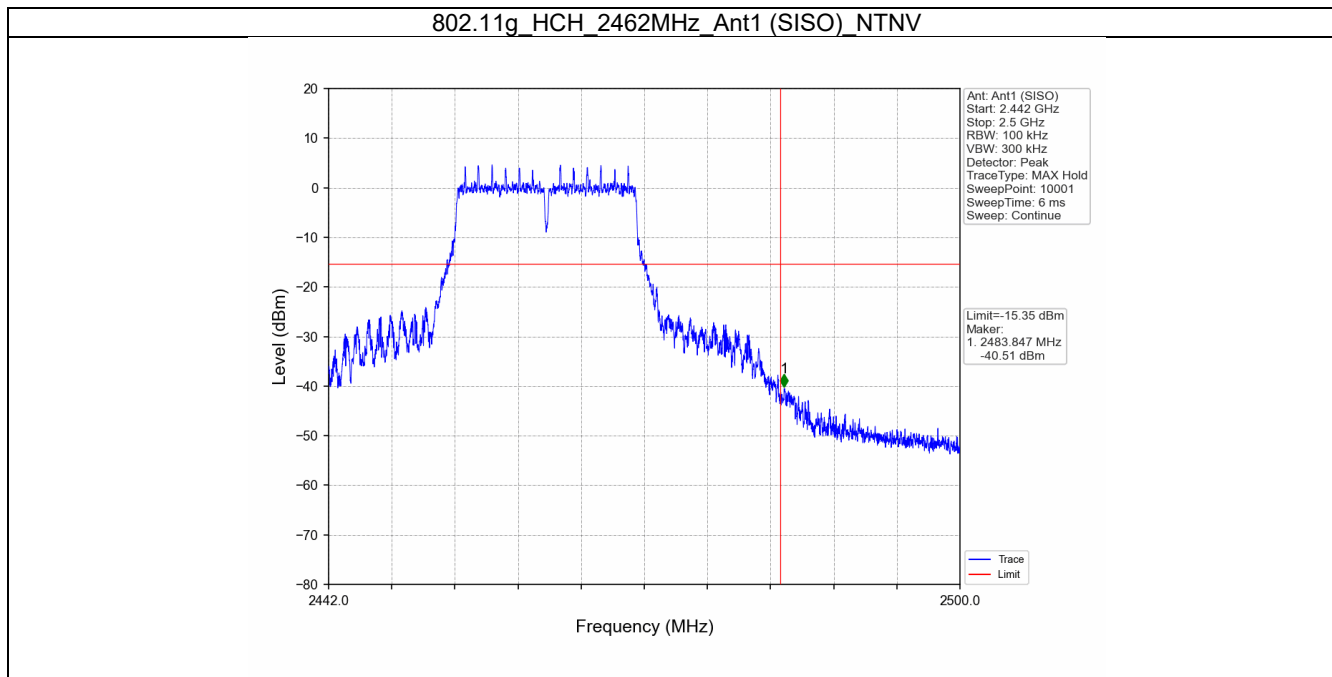


802.11g\_MCH\_2437MHz\_Ant1 (SISO) NTN



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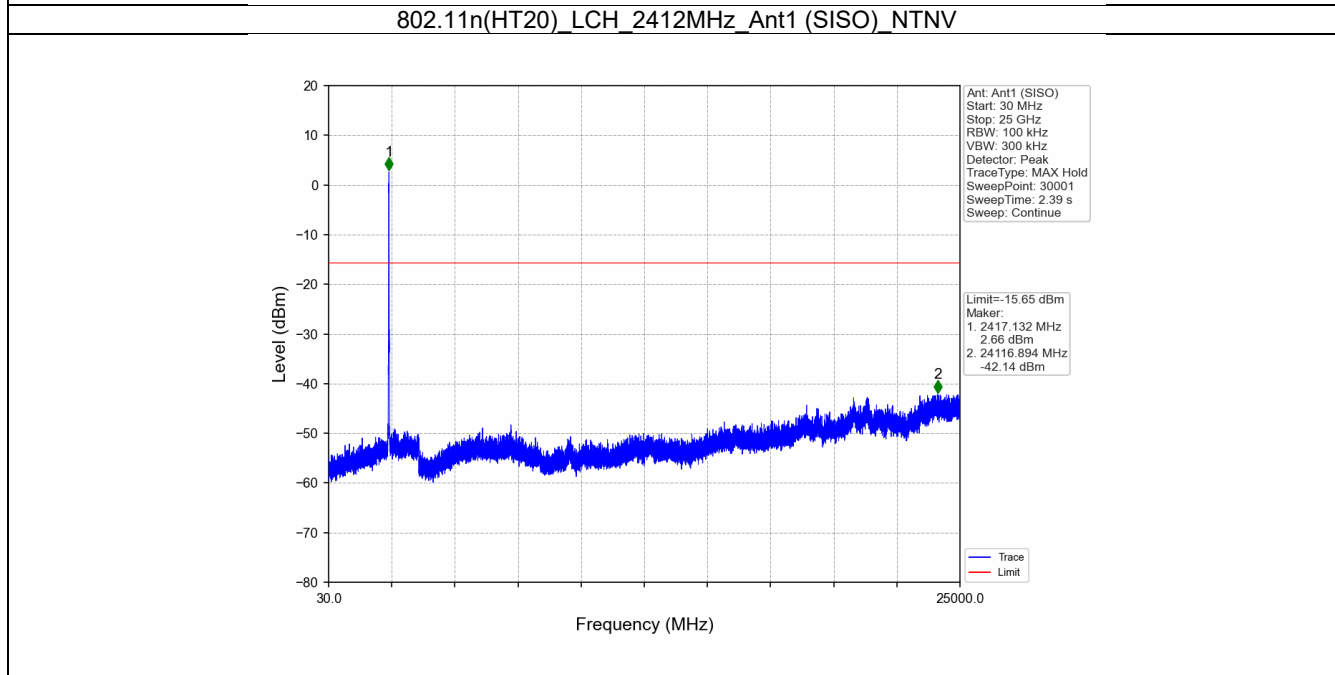
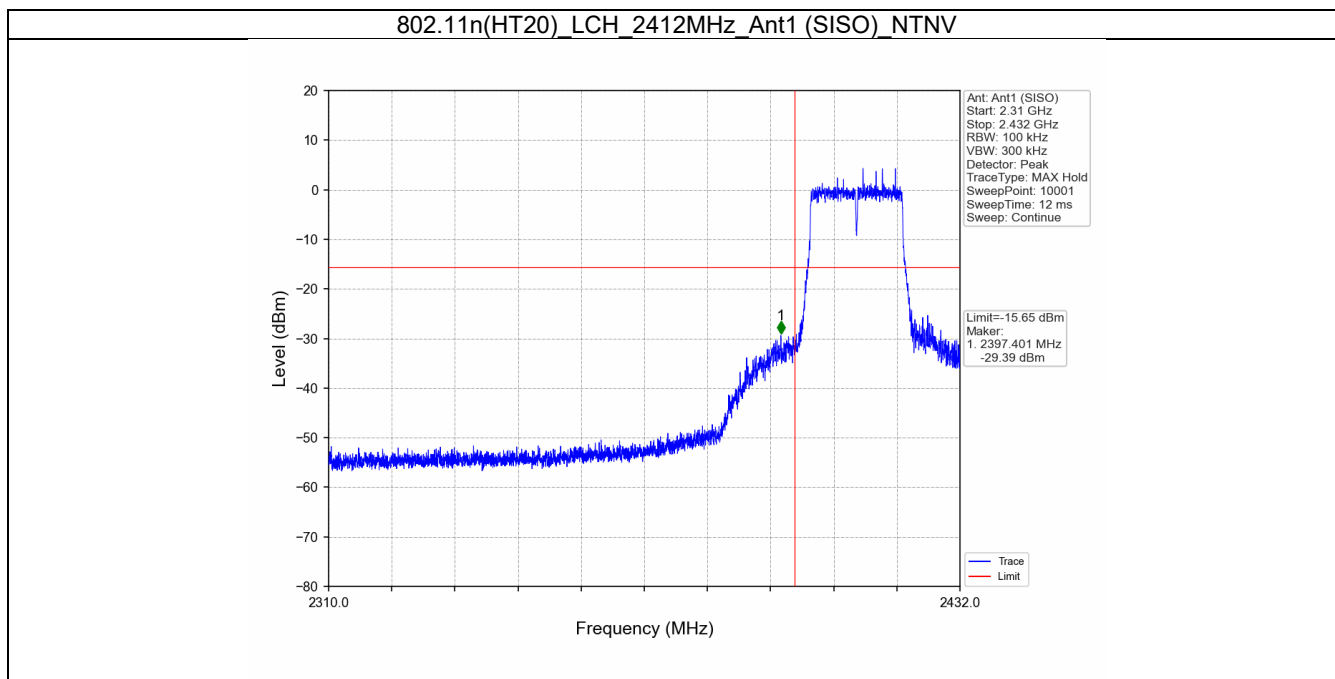


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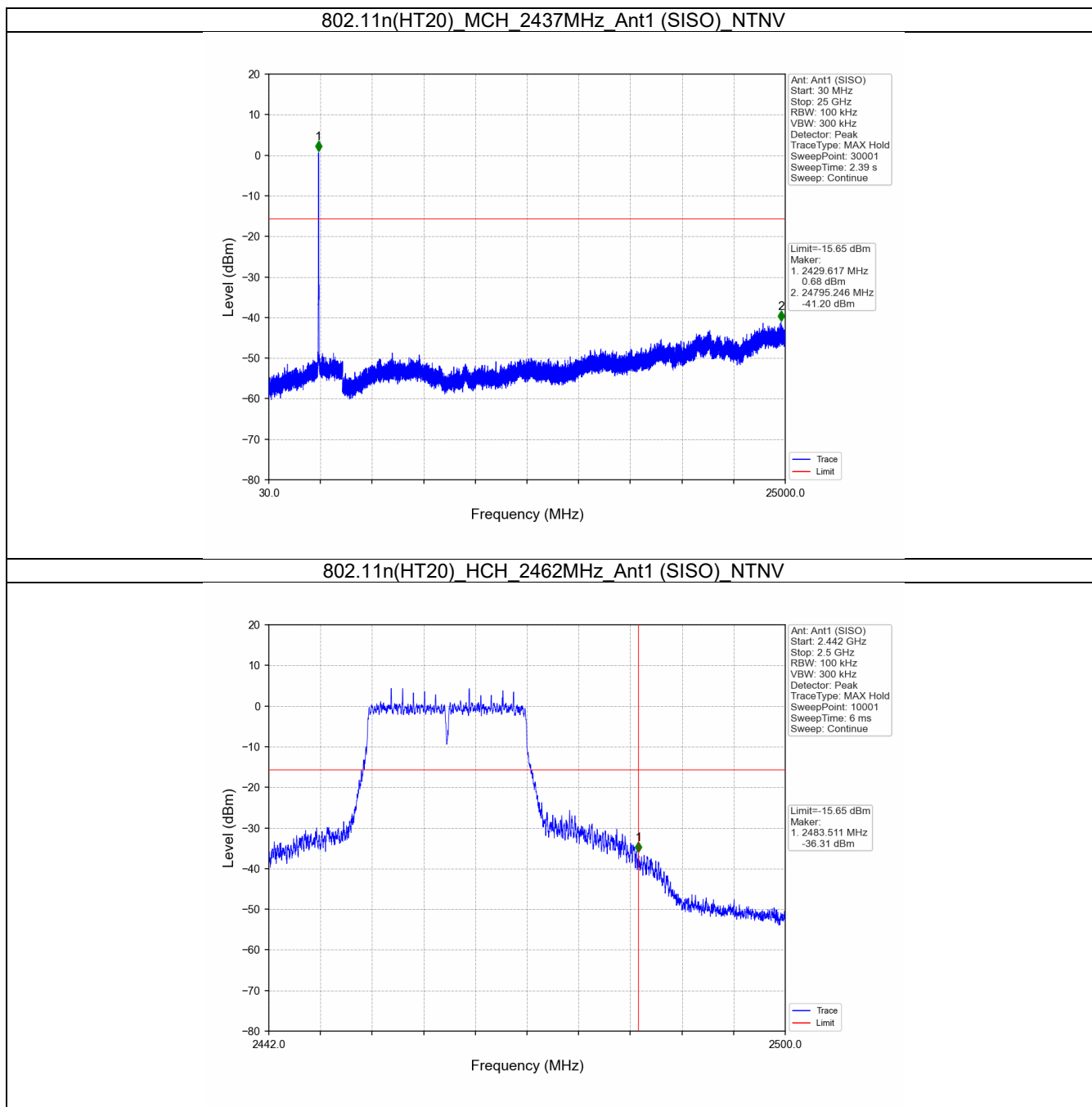


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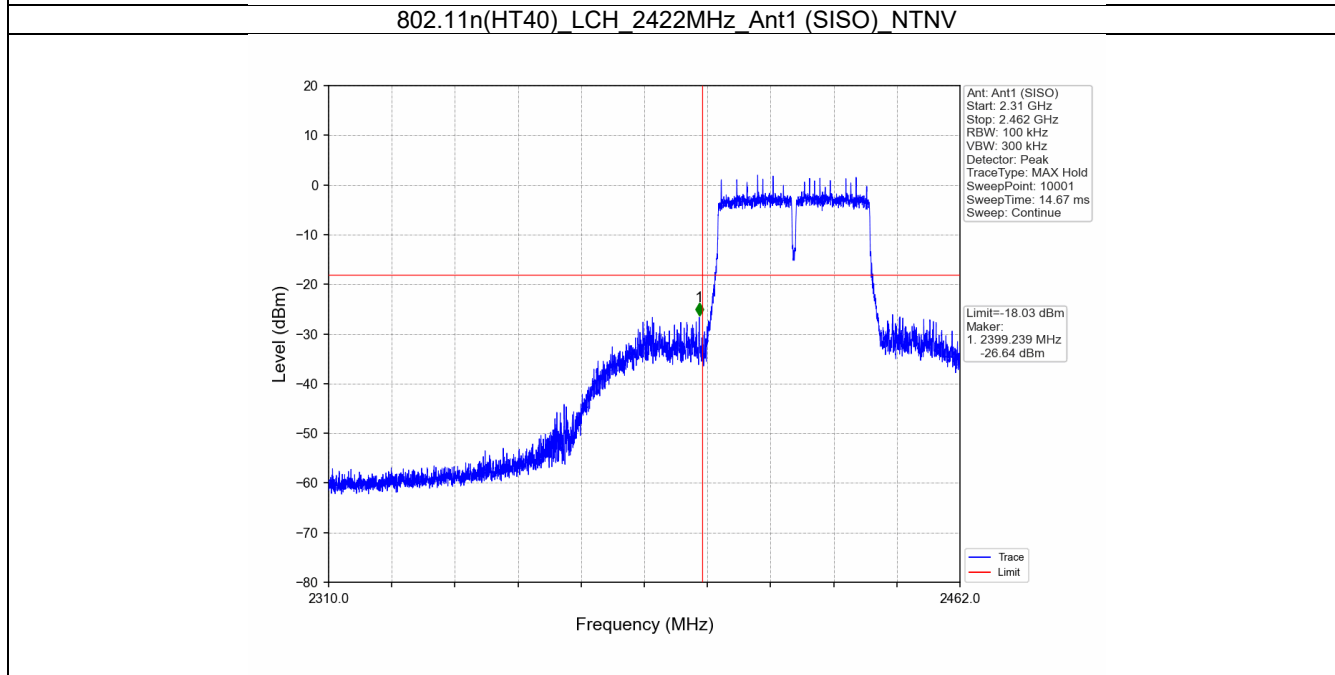
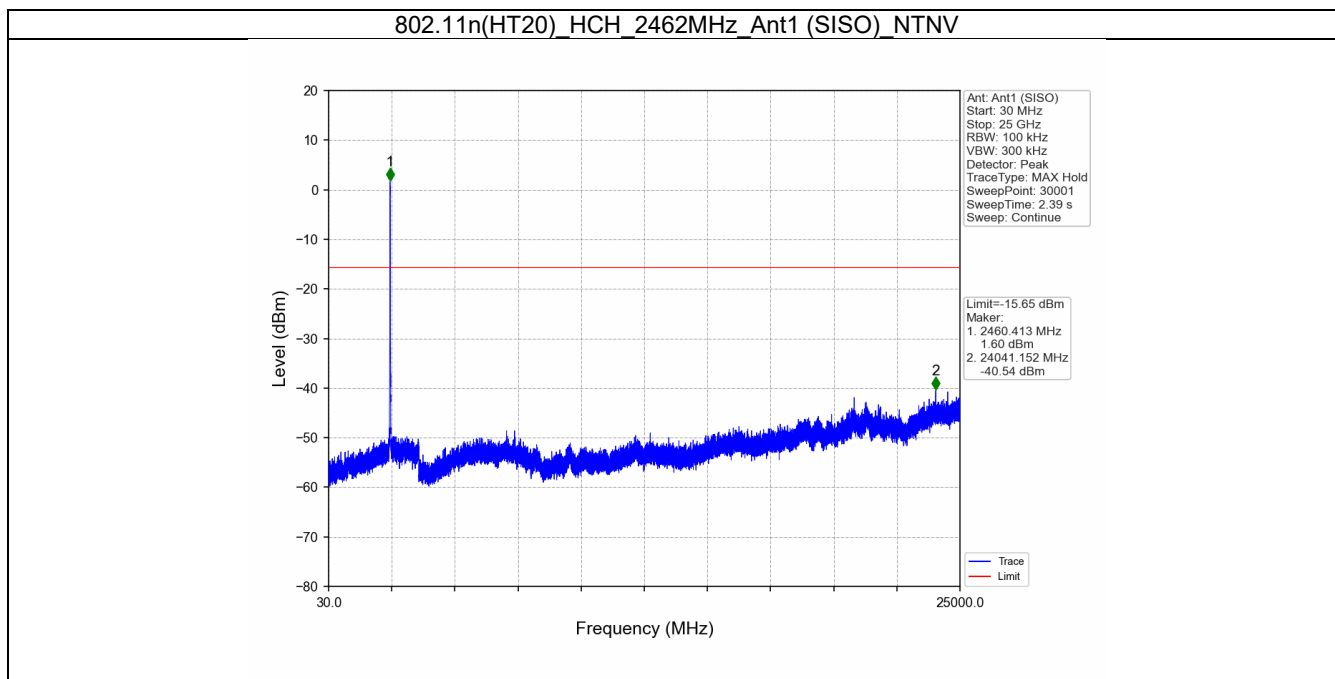


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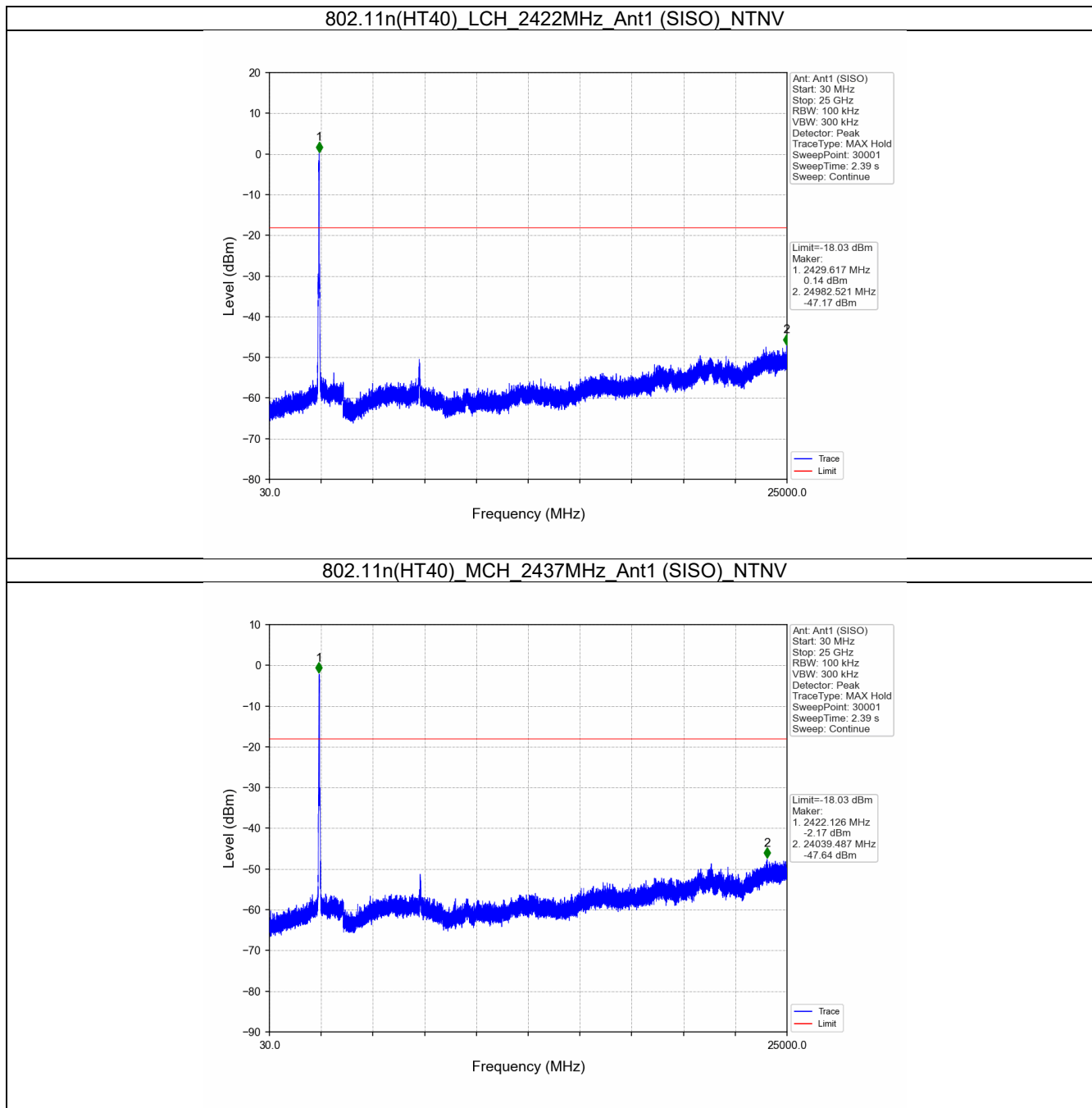
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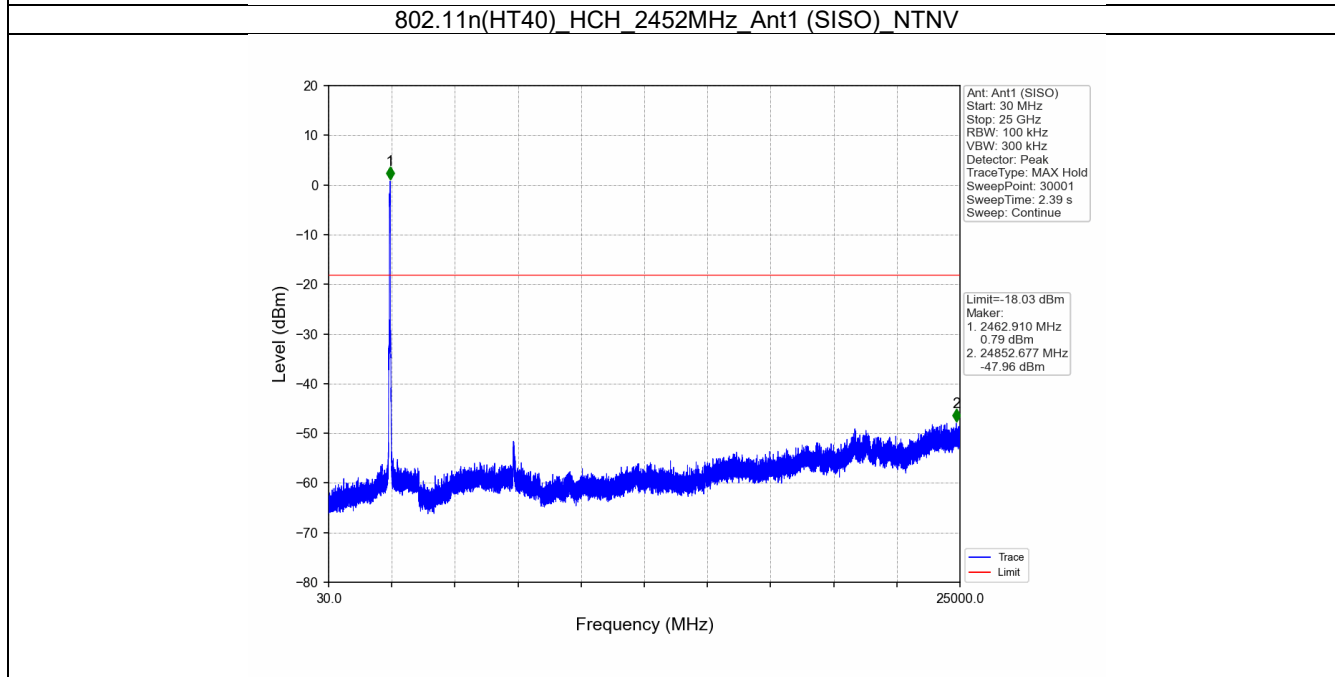
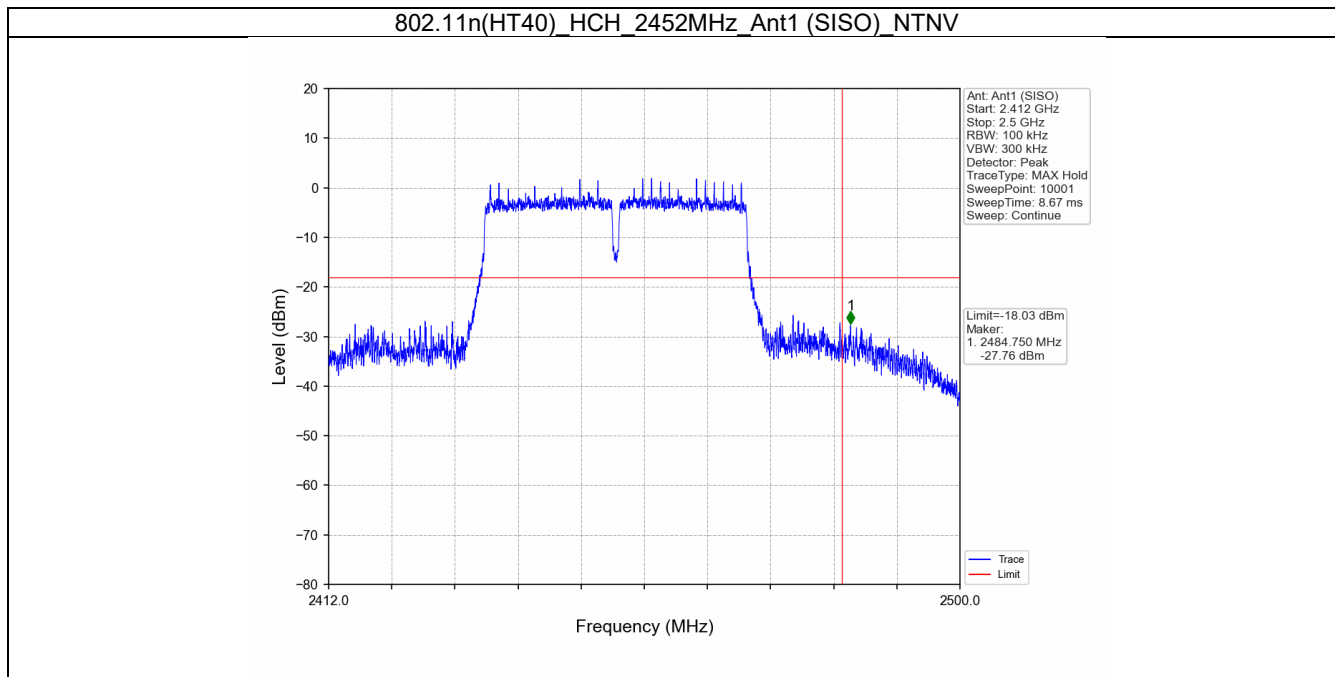


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