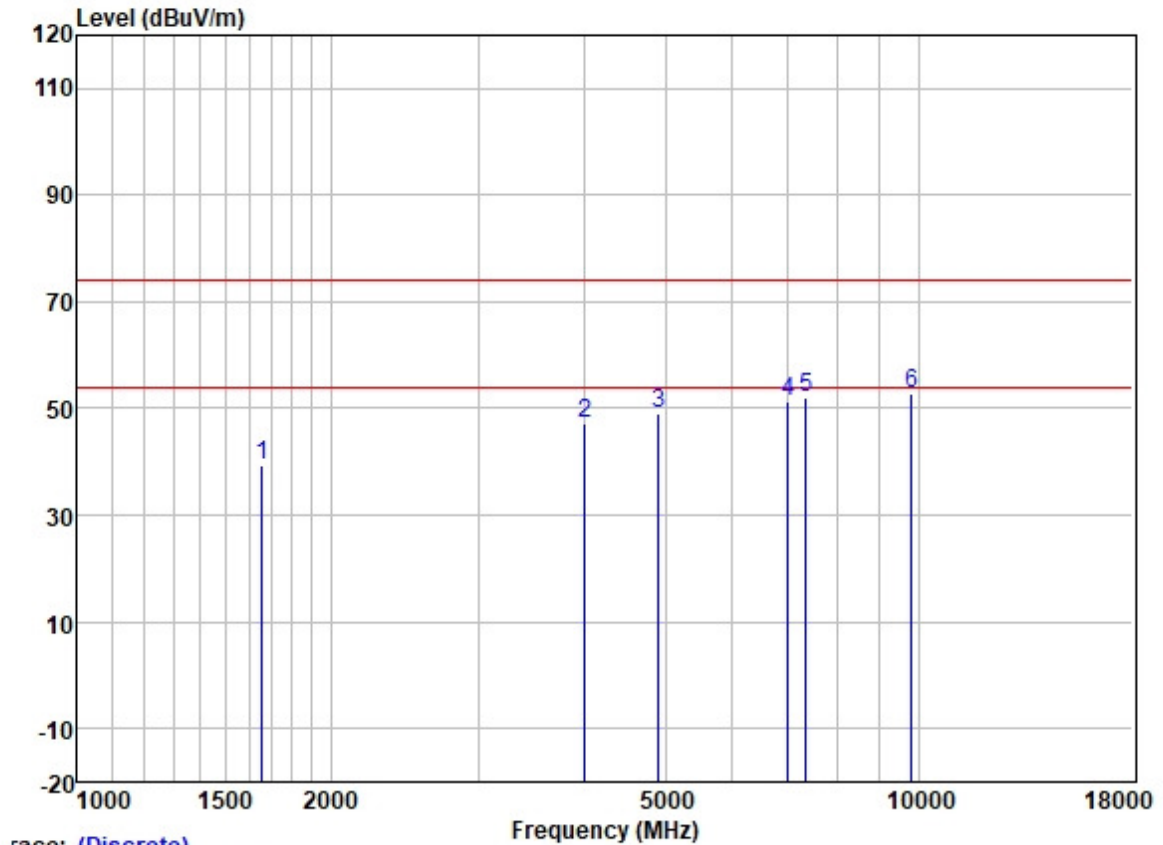


Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



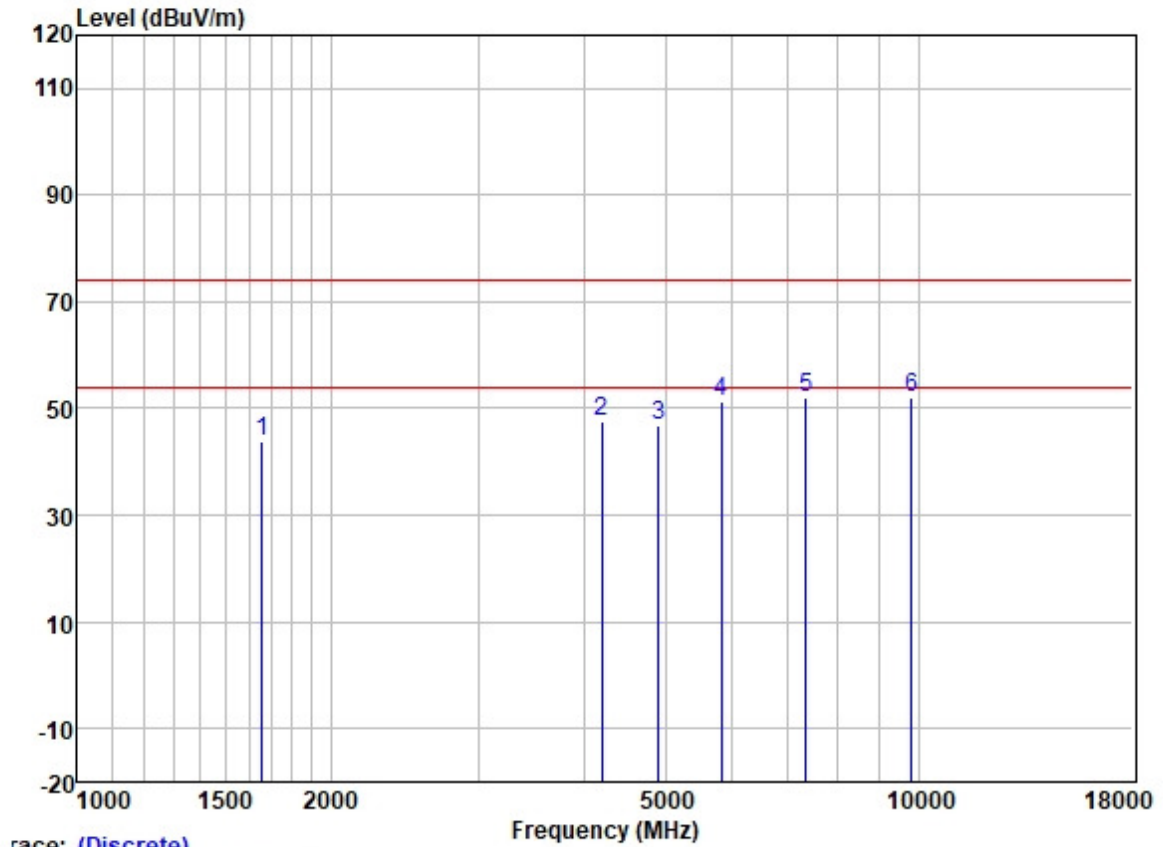
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	48.69	25.65	2.80	37.93	39.21	74.00	-34.79	HORIZONTAL	Peak
2	4015.929	49.76	29.82	4.60	36.80	47.38	74.00	-26.62	HORIZONTAL	Peak
3	4904.000	48.71	31.58	5.55	36.84	49.00	74.00	-25.00	HORIZONTAL	Peak
4	6995.172	47.57	35.00	5.81	37.25	51.13	74.00	-22.87	HORIZONTAL	Peak
5	7356.000	47.14	36.06	6.15	37.44	51.91	74.00	-22.09	HORIZONTAL	Peak
6	9808.000	44.75	38.56	7.00	37.41	52.90	74.00	-21.10	HORIZONTAL	Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

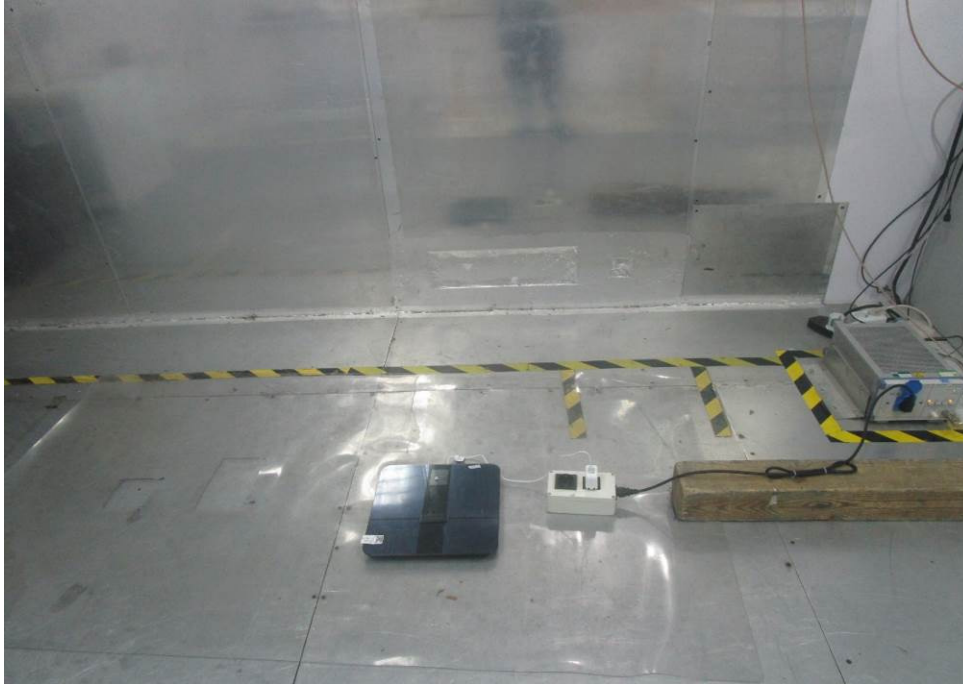
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	53.41	25.65	2.80	37.93	43.93	74.00	-30.07	VERTICAL	Peak
2	4206.011	49.52	30.18	4.60	36.81	47.49	74.00	-26.51	VERTICAL	Peak
3	4904.000	46.71	31.58	5.55	36.84	47.00	74.00	-27.00	VERTICAL	Peak
4	5830.640	49.90	32.23	6.04	36.90	51.27	74.00	-22.73	VERTICAL	Peak
5	7356.000	47.29	36.06	6.15	37.44	52.06	74.00	-21.94	VERTICAL	Peak
6	9808.000	43.94	38.56	7.00	37.41	52.09	74.00	-21.91	VERTICAL	Peak



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## 8 Test Setup Photo

### Conducted Emissions at AC Power Line (150kHz-30MHz)



### Radiated Emissions which fall in the restricted bands

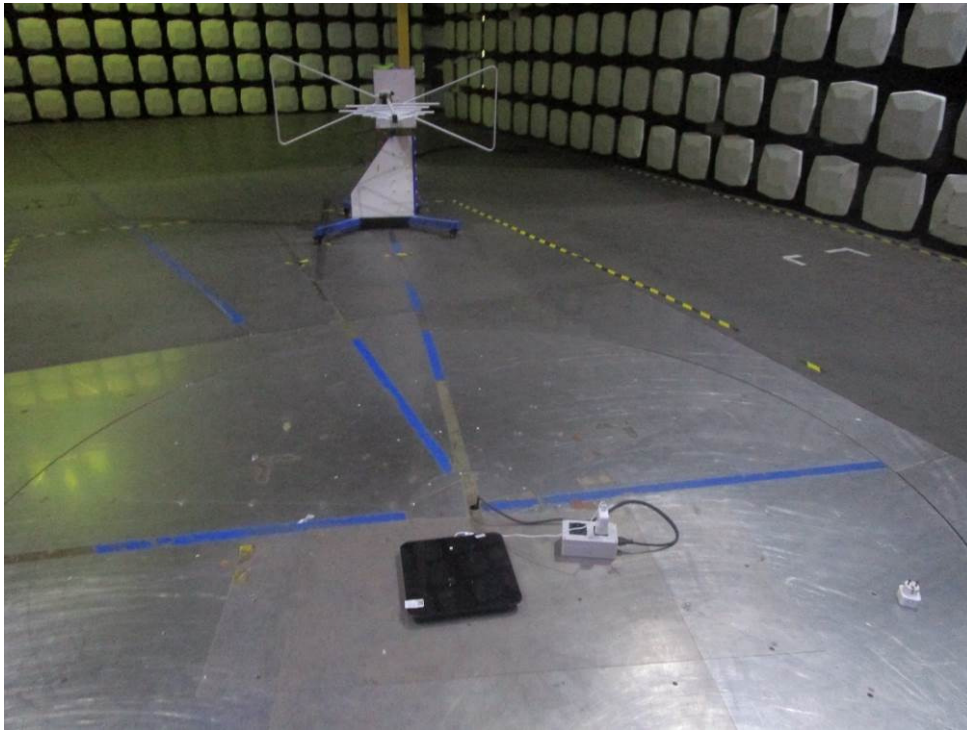


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### Radiated Spurious Emissions (Below 1GHz)



### Radiated Spurious Emissions (Above 1GHz)



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2109021043AT



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

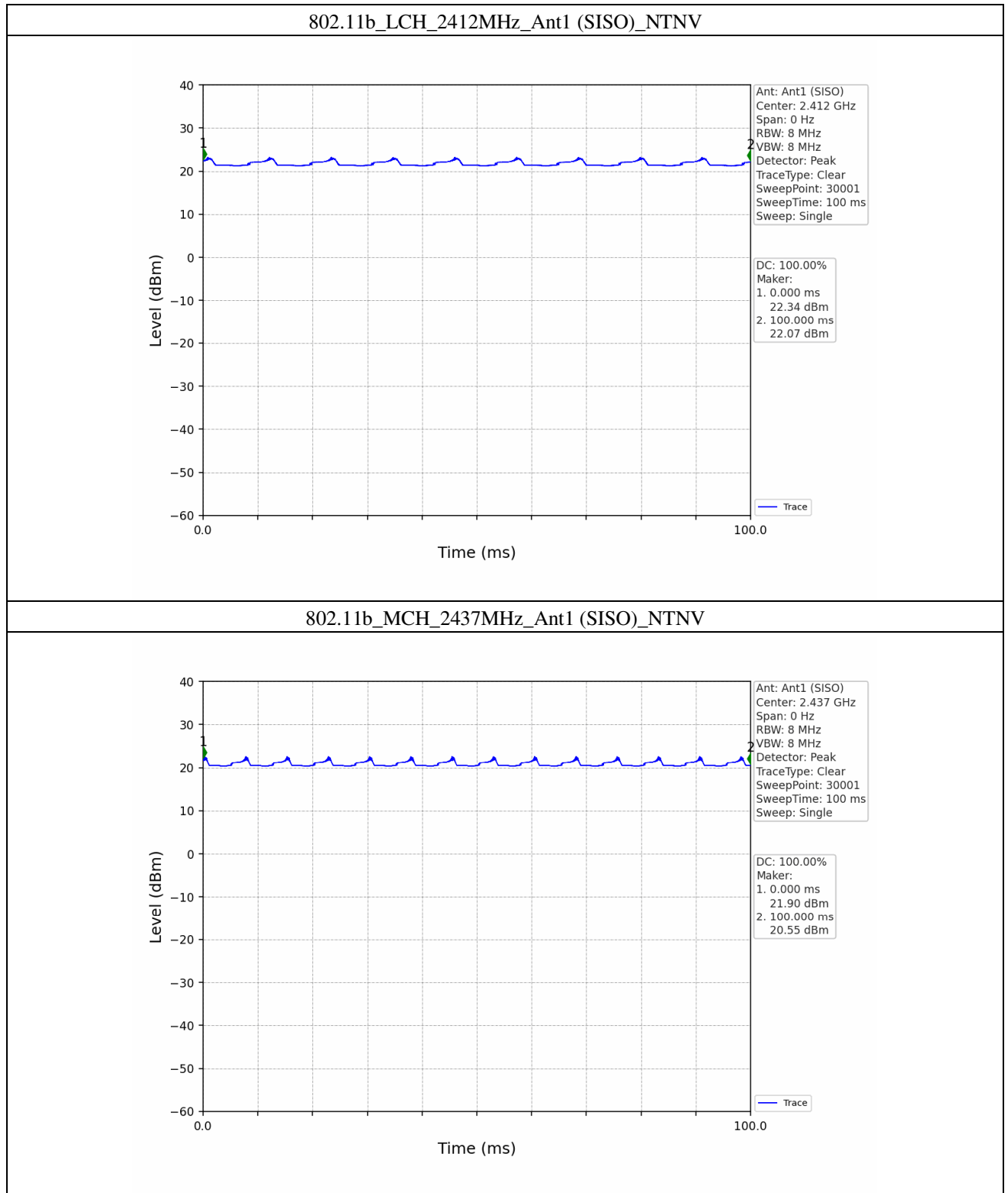
##### 1.1.1 Test Result

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)	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 (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



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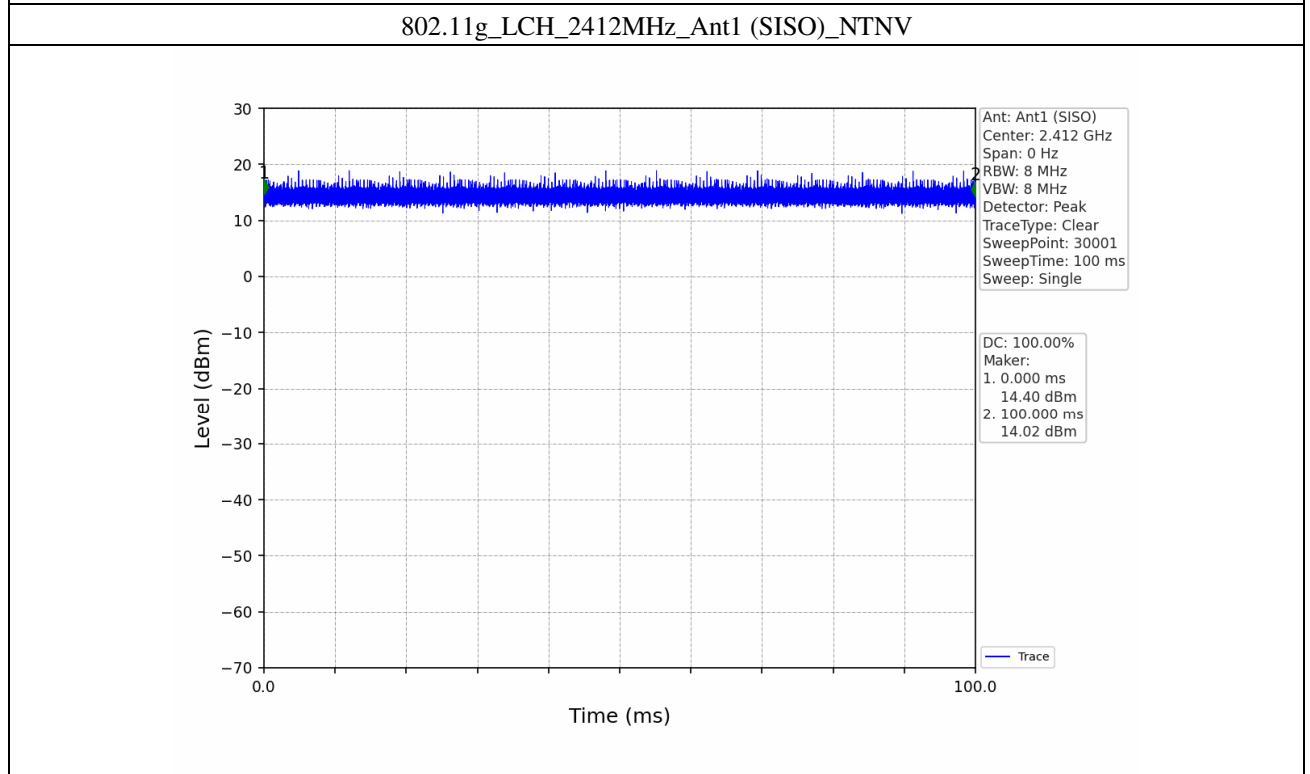
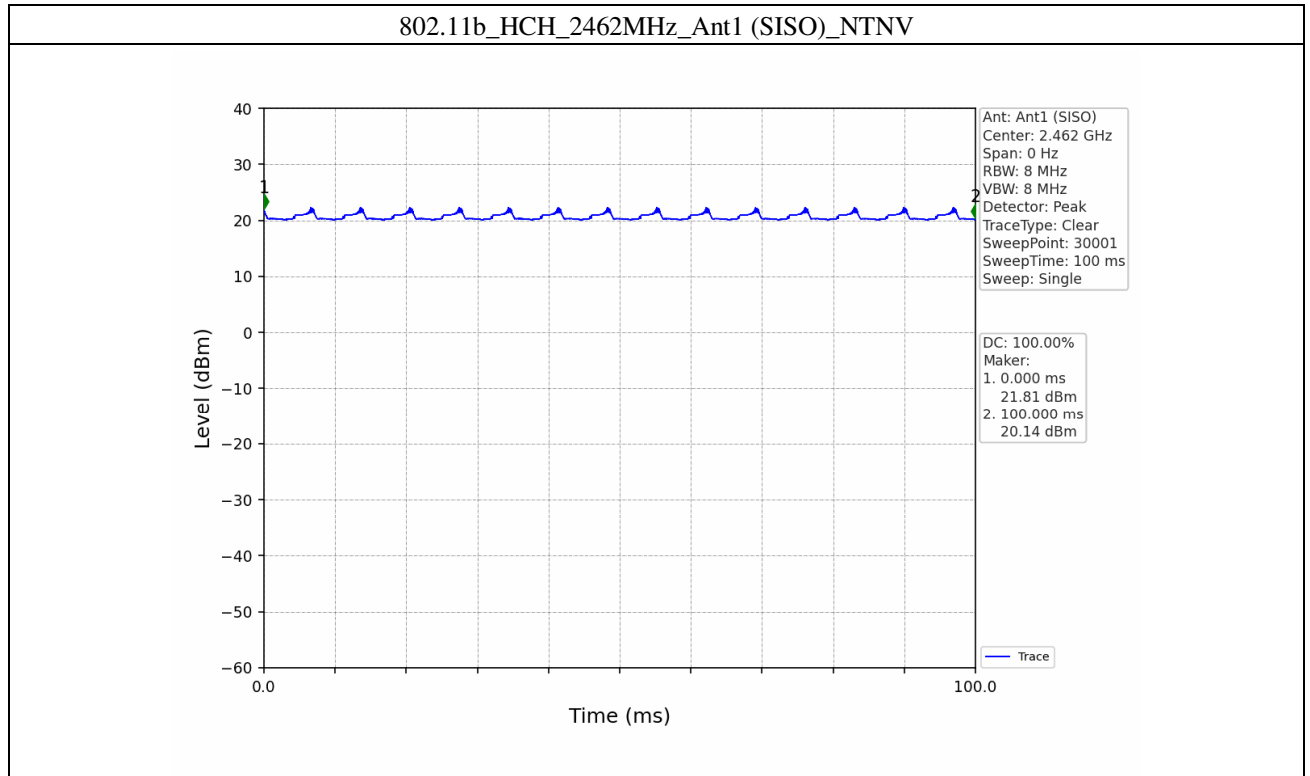
### 1.1.2 Test Graph



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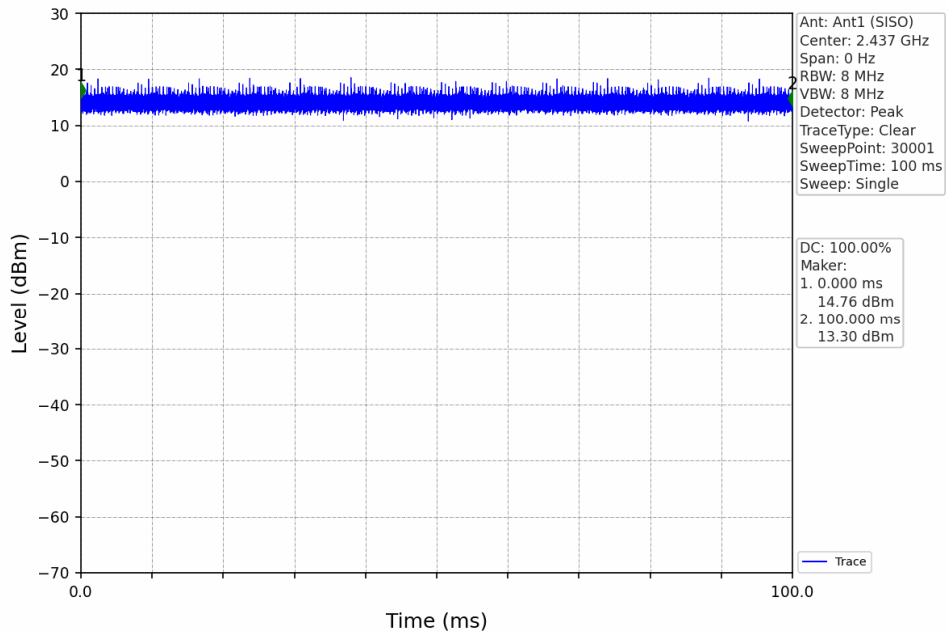
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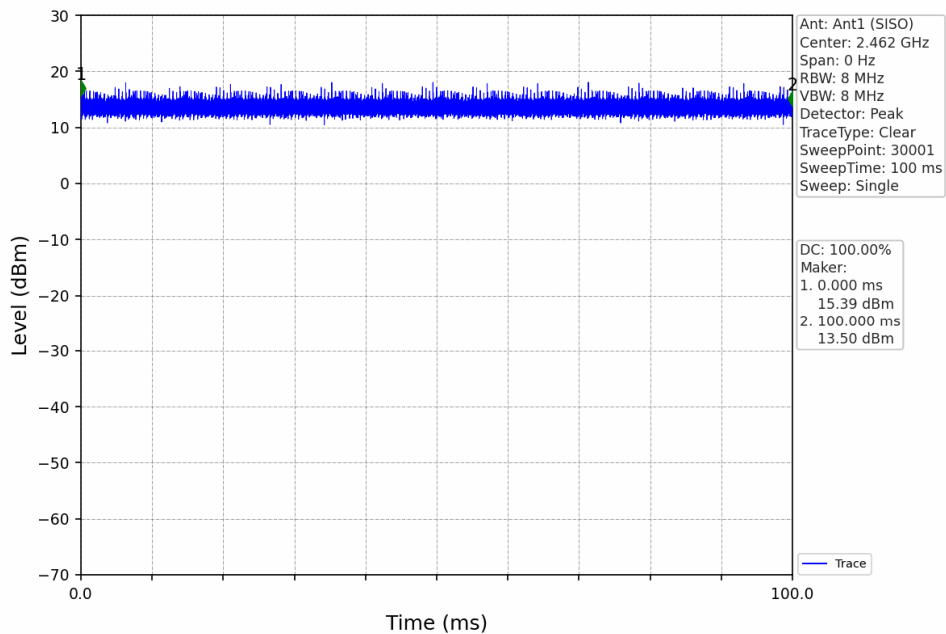
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

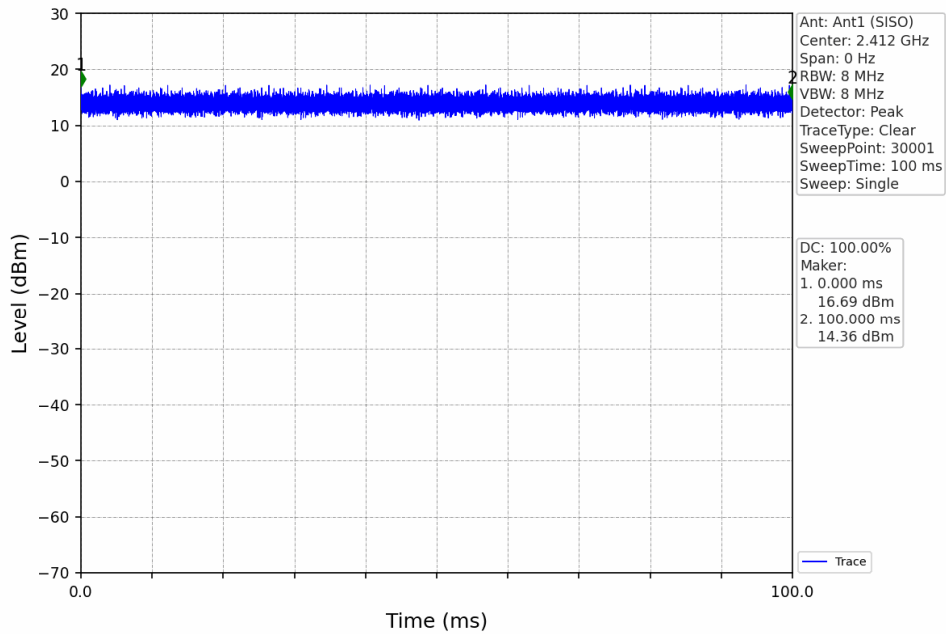


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

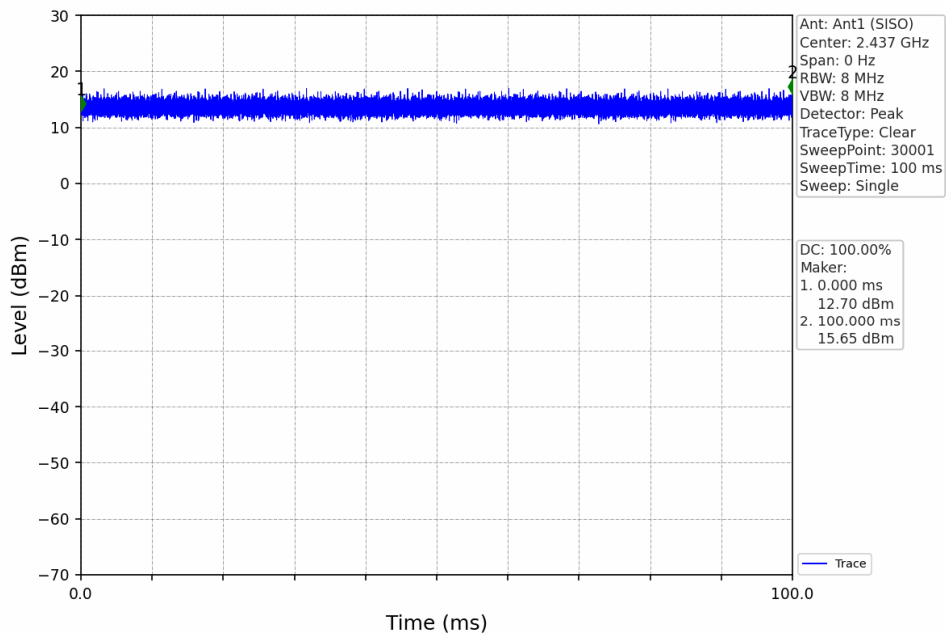


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

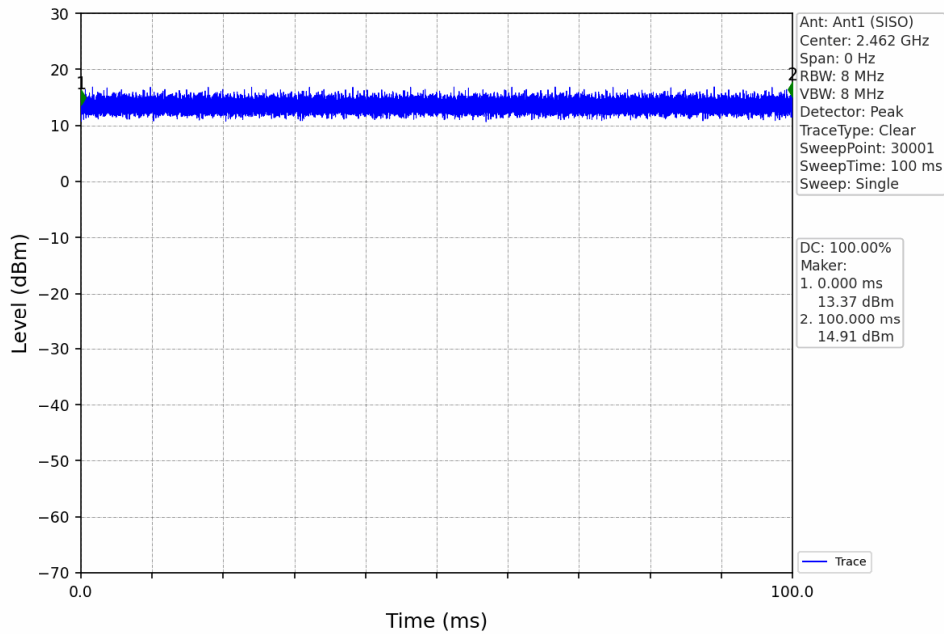


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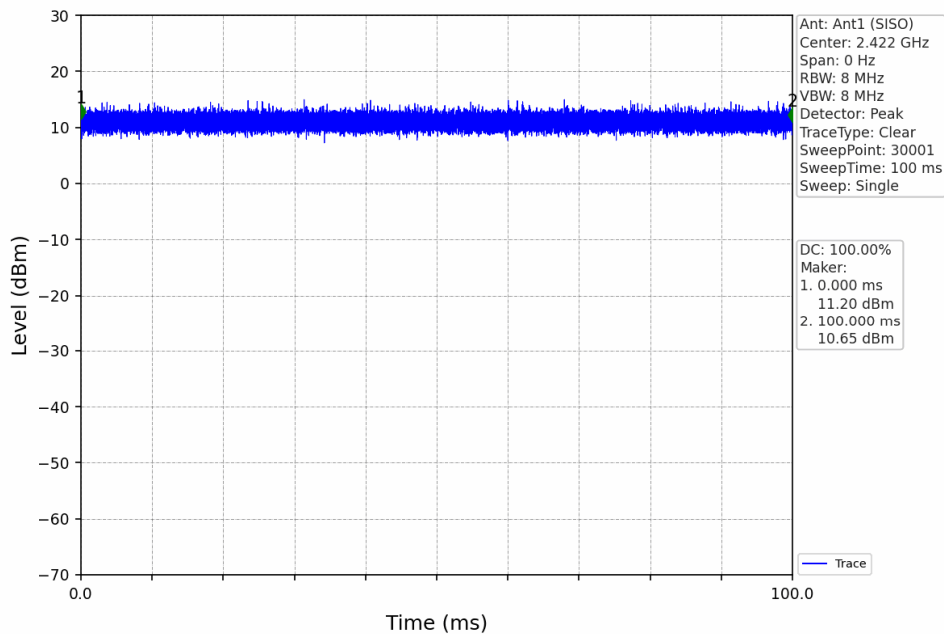


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



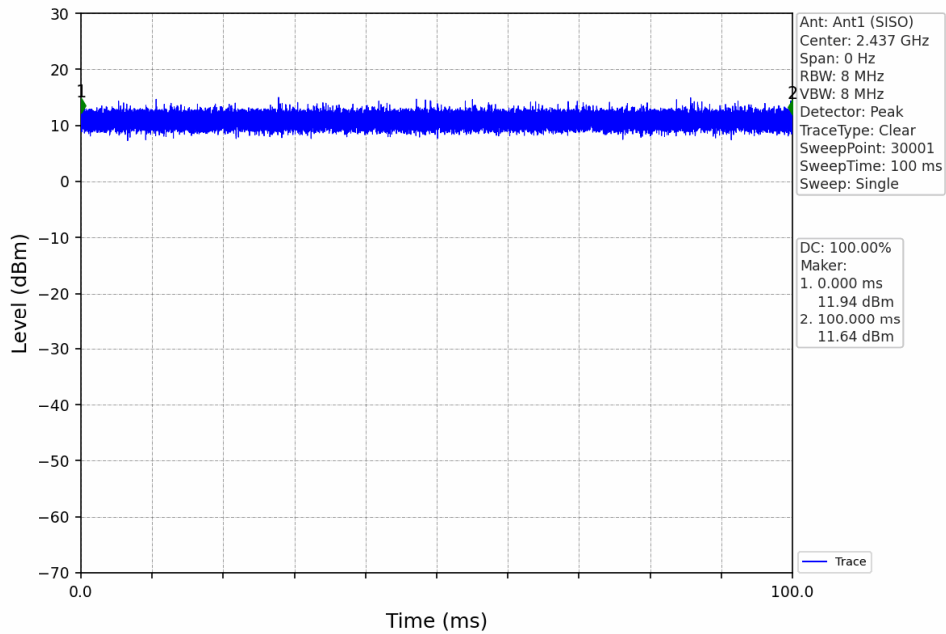
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



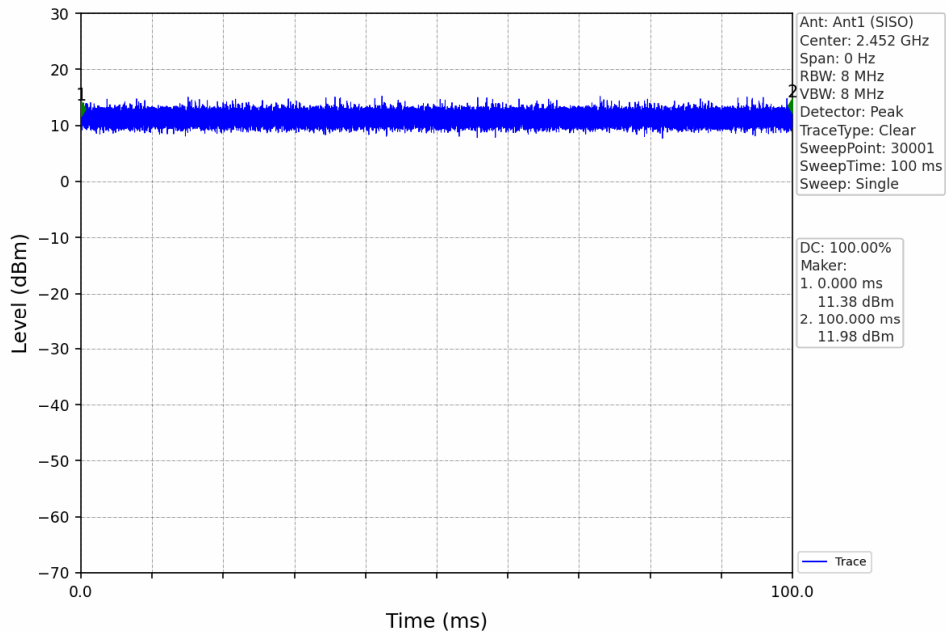
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

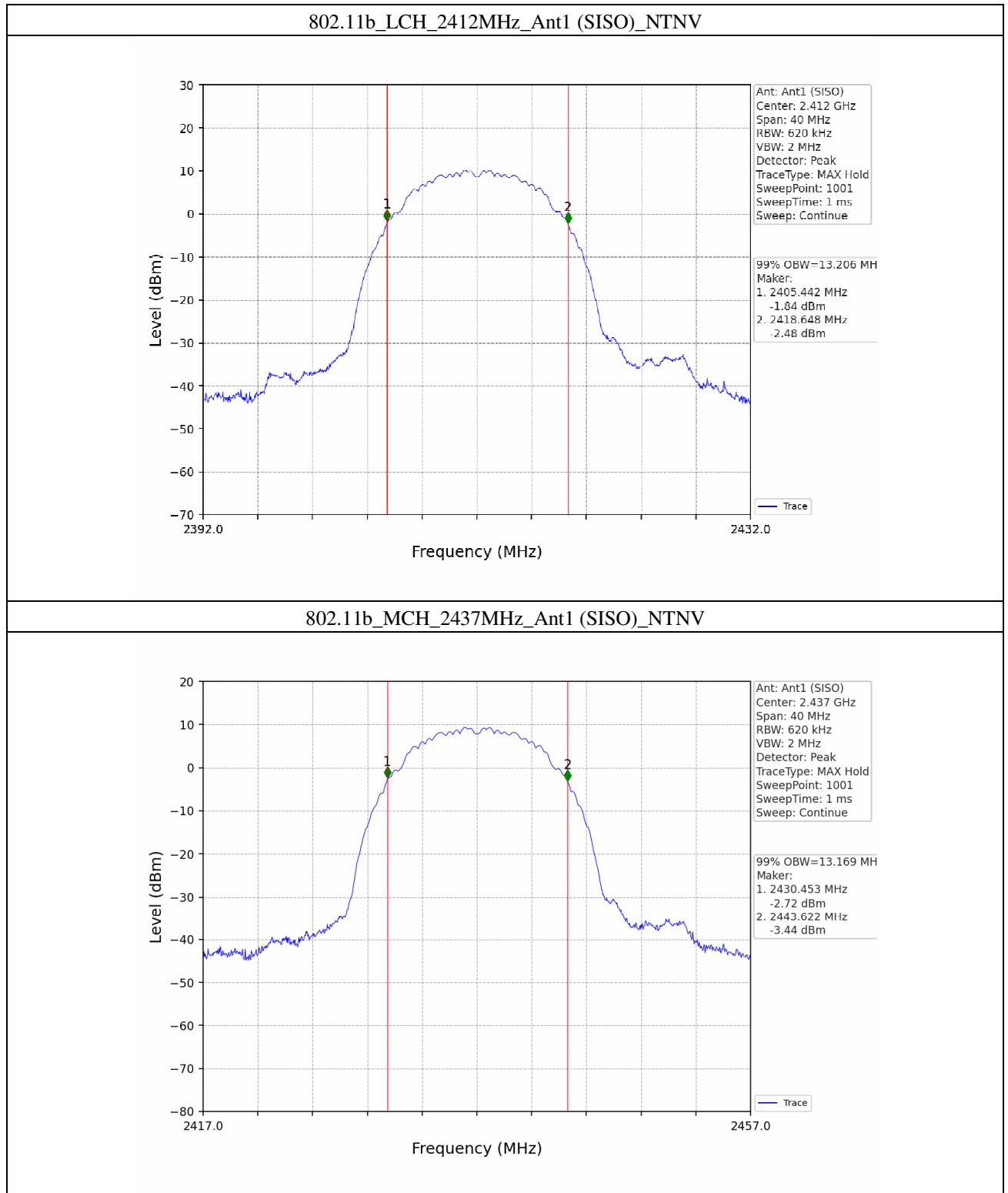
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.206	Pass
		2437	1	13.169	Pass
		2462	1	13.157	Pass
802.11g	SISO	2412	1	16.833	Pass
		2437	1	16.834	Pass
		2462	1	16.833	Pass
802.11n (HT20)	SISO	2412	1	17.500	Pass
		2437	1	17.504	Pass
		2462	1	17.501	Pass
802.11n (HT40)	SISO	2422	1	34.900	Pass
		2437	1	34.870	Pass
		2452	1	34.897	Pass



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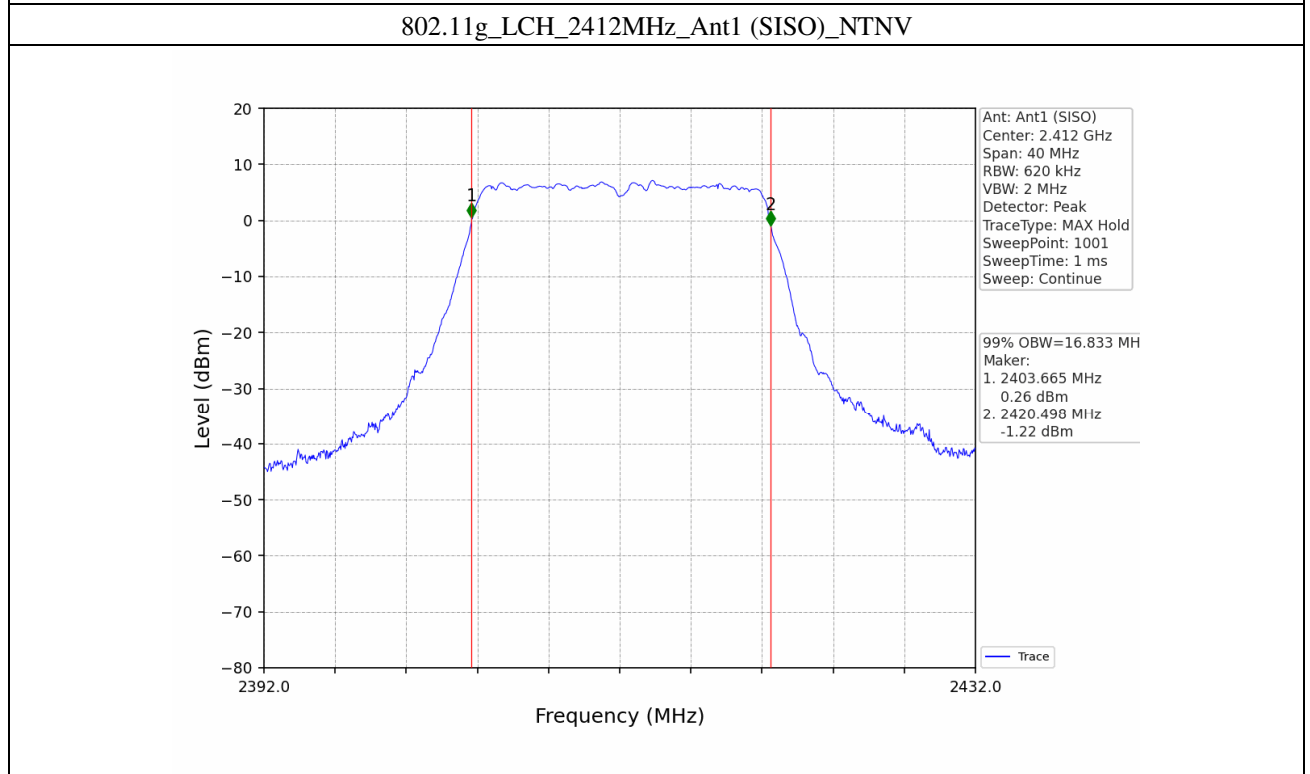
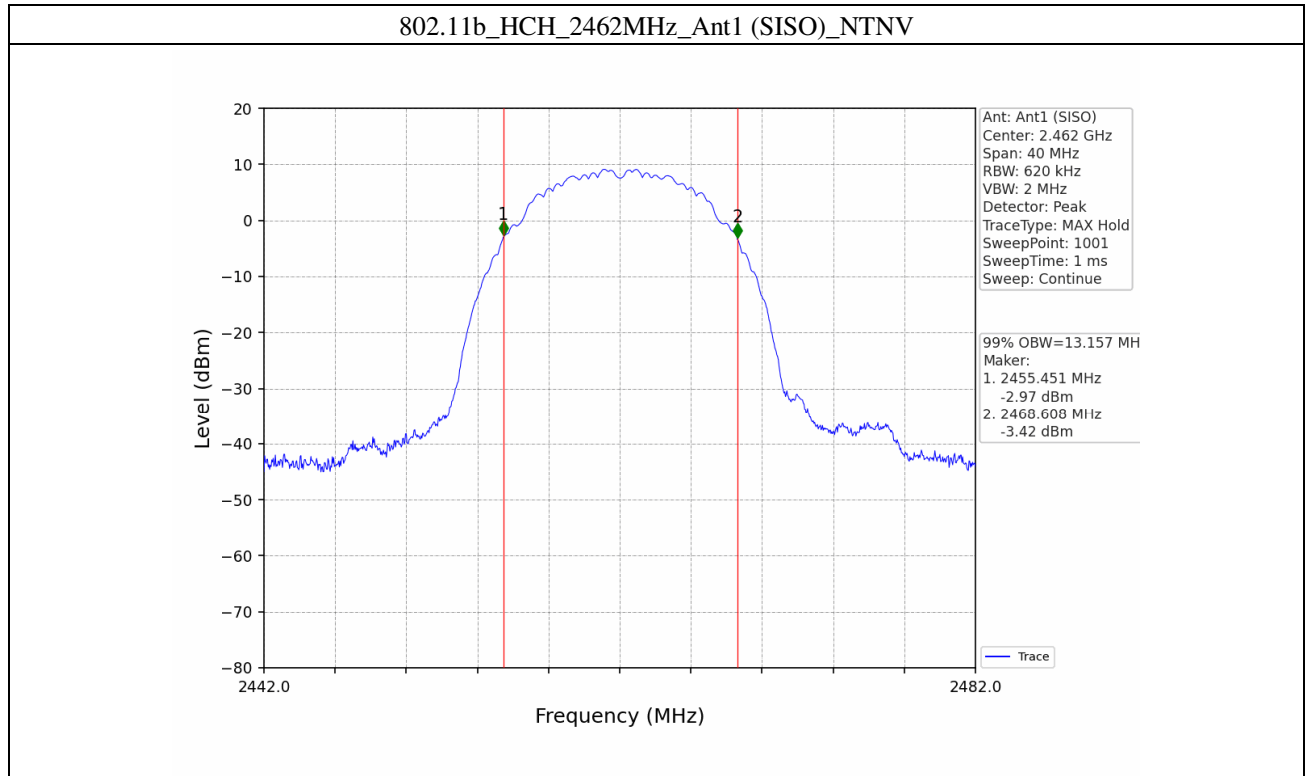
### 2.1.2 Test Graph



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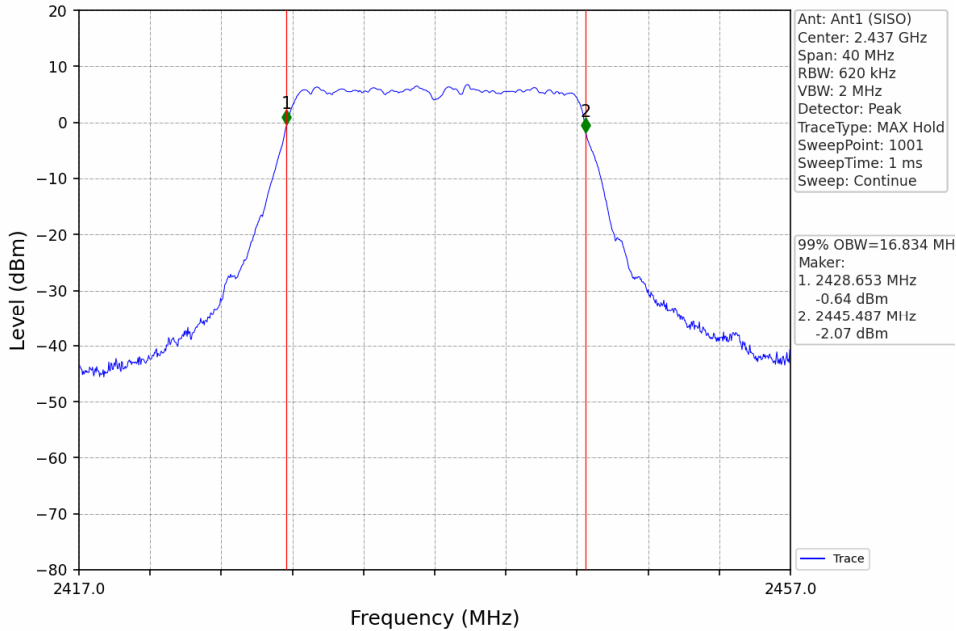
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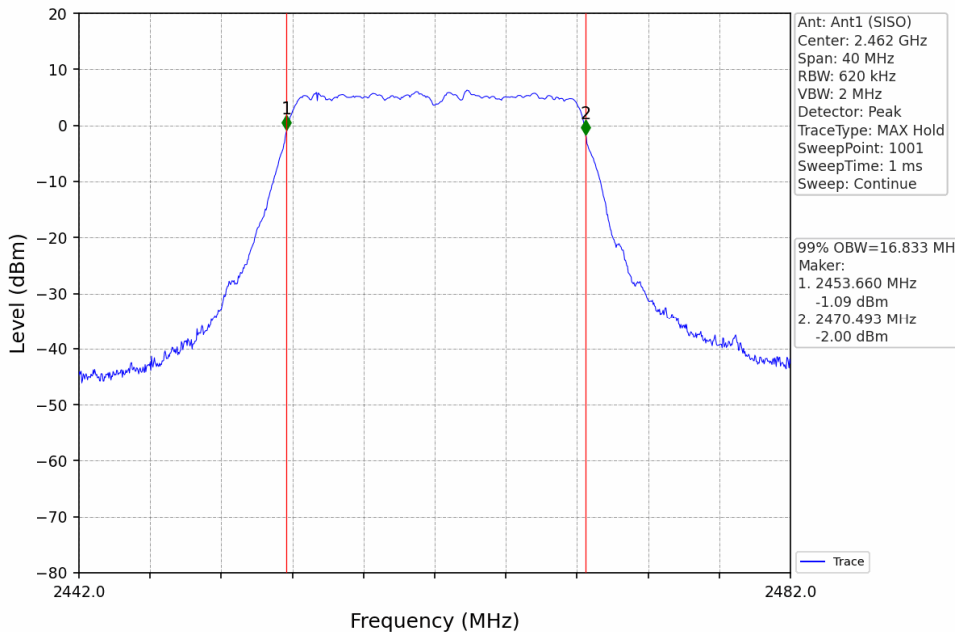


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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



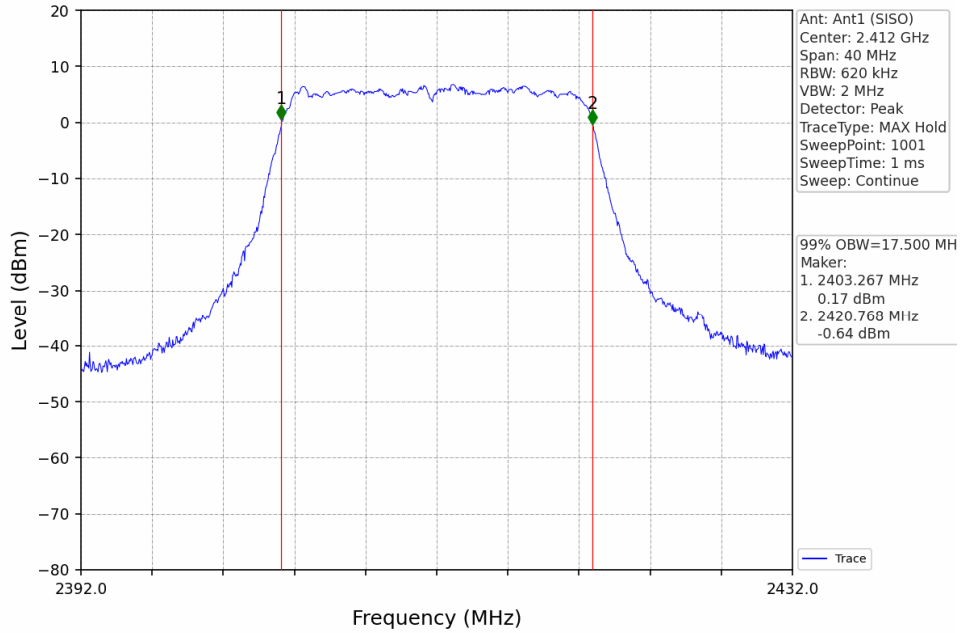
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



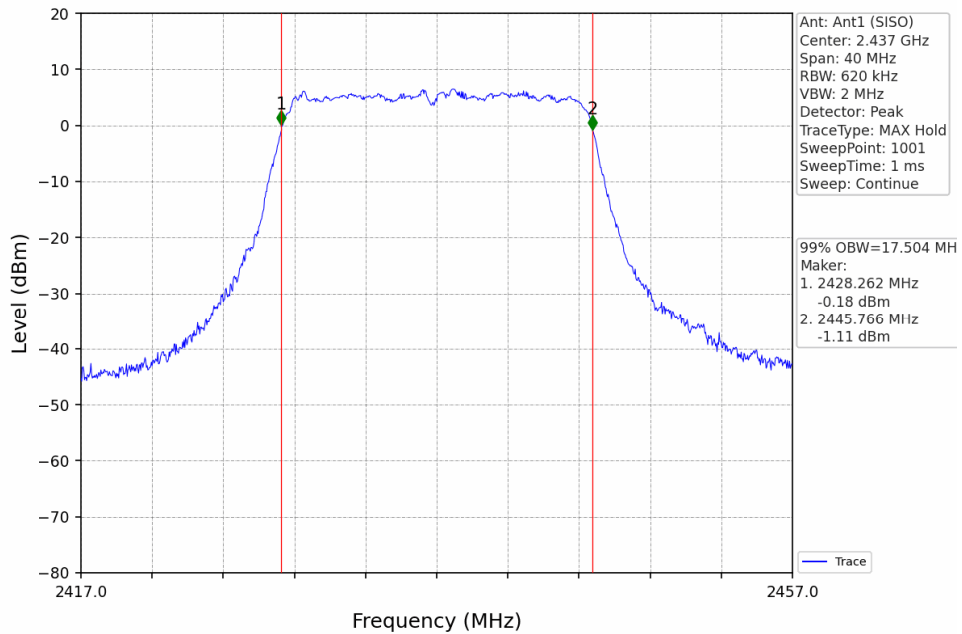
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



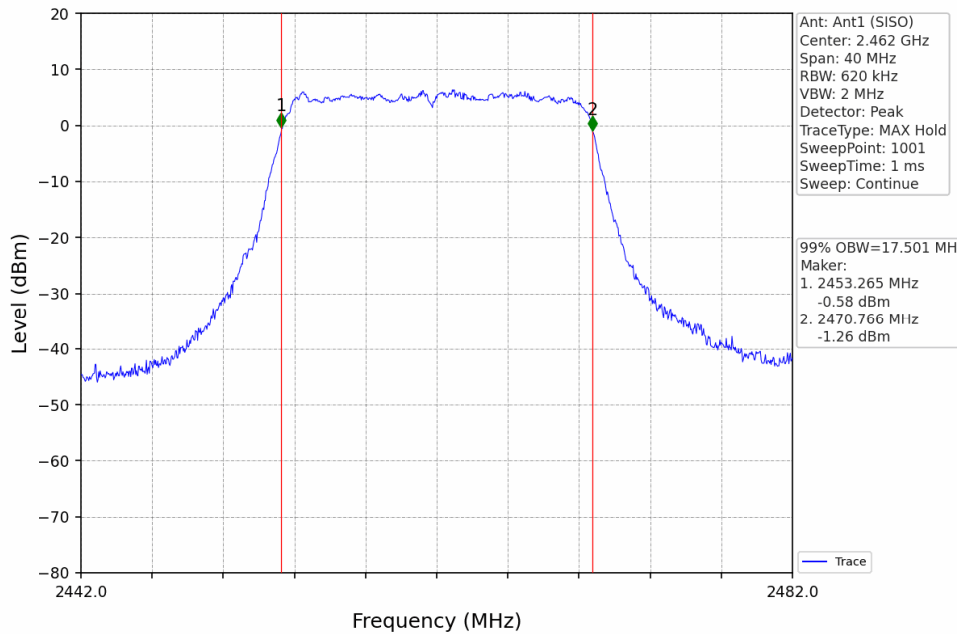
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



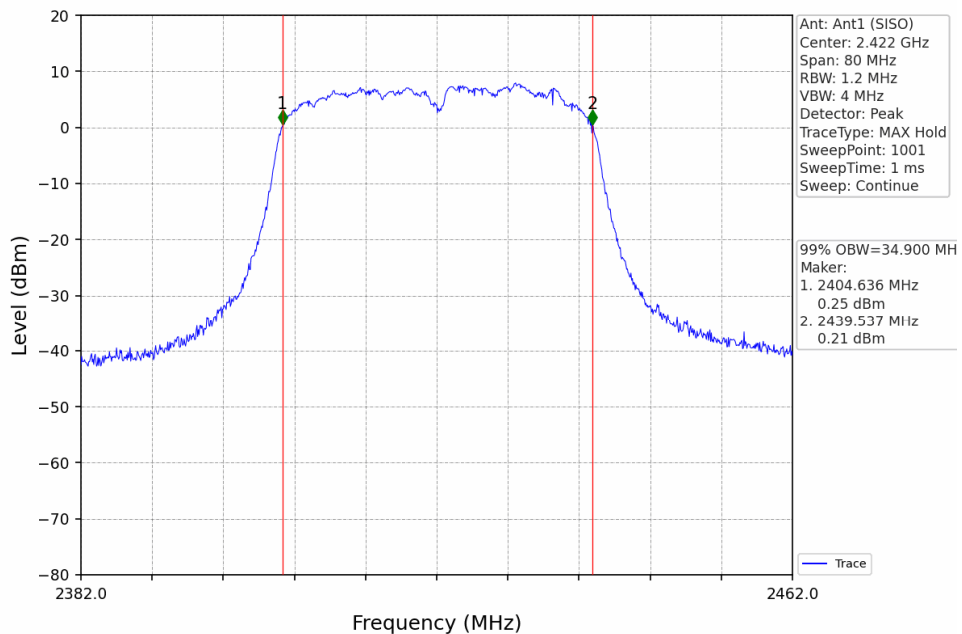
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

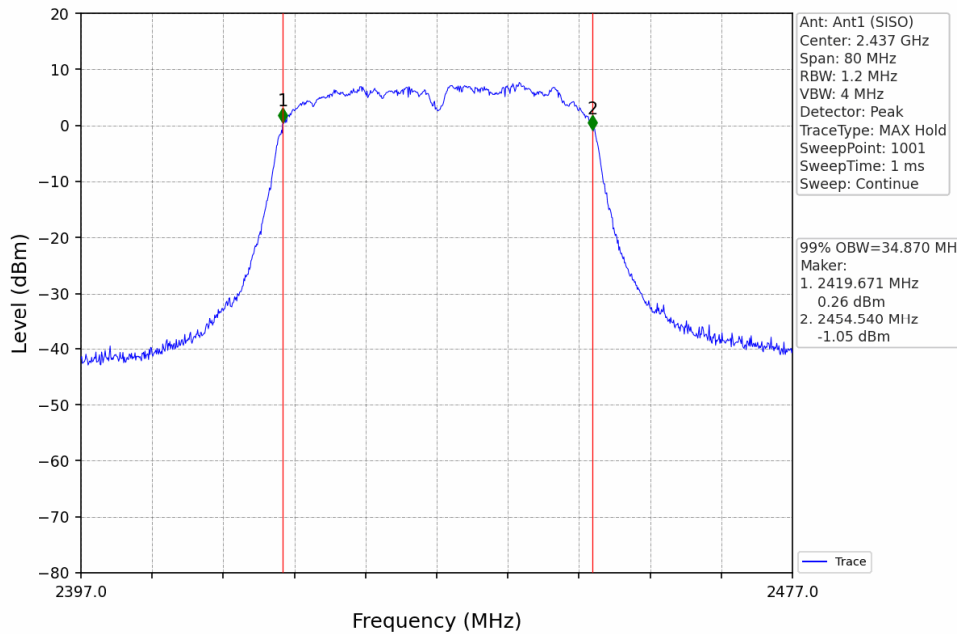


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

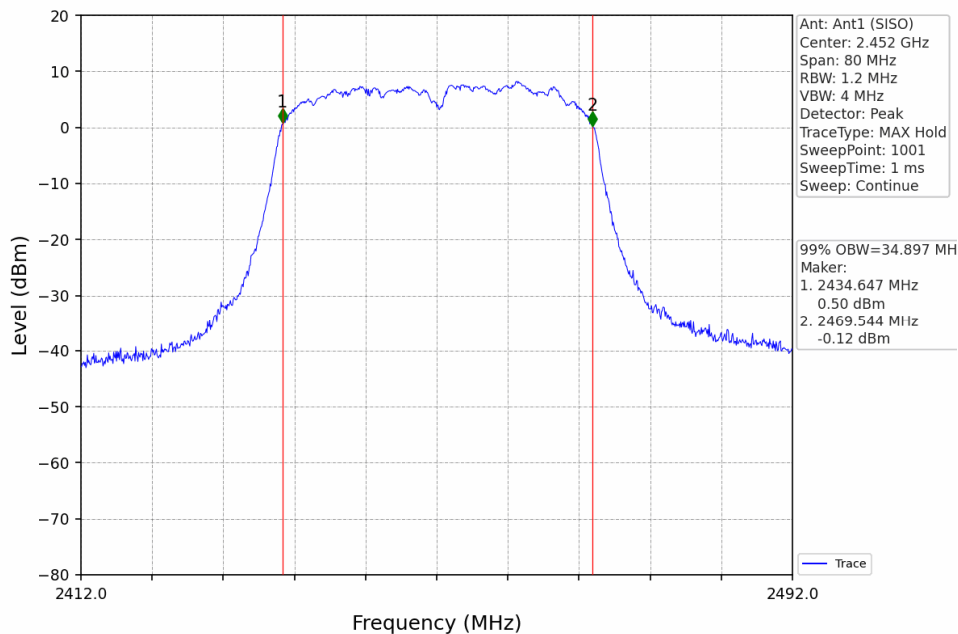


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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## 2.2 6dB BW

### 2.2.1 Test Result

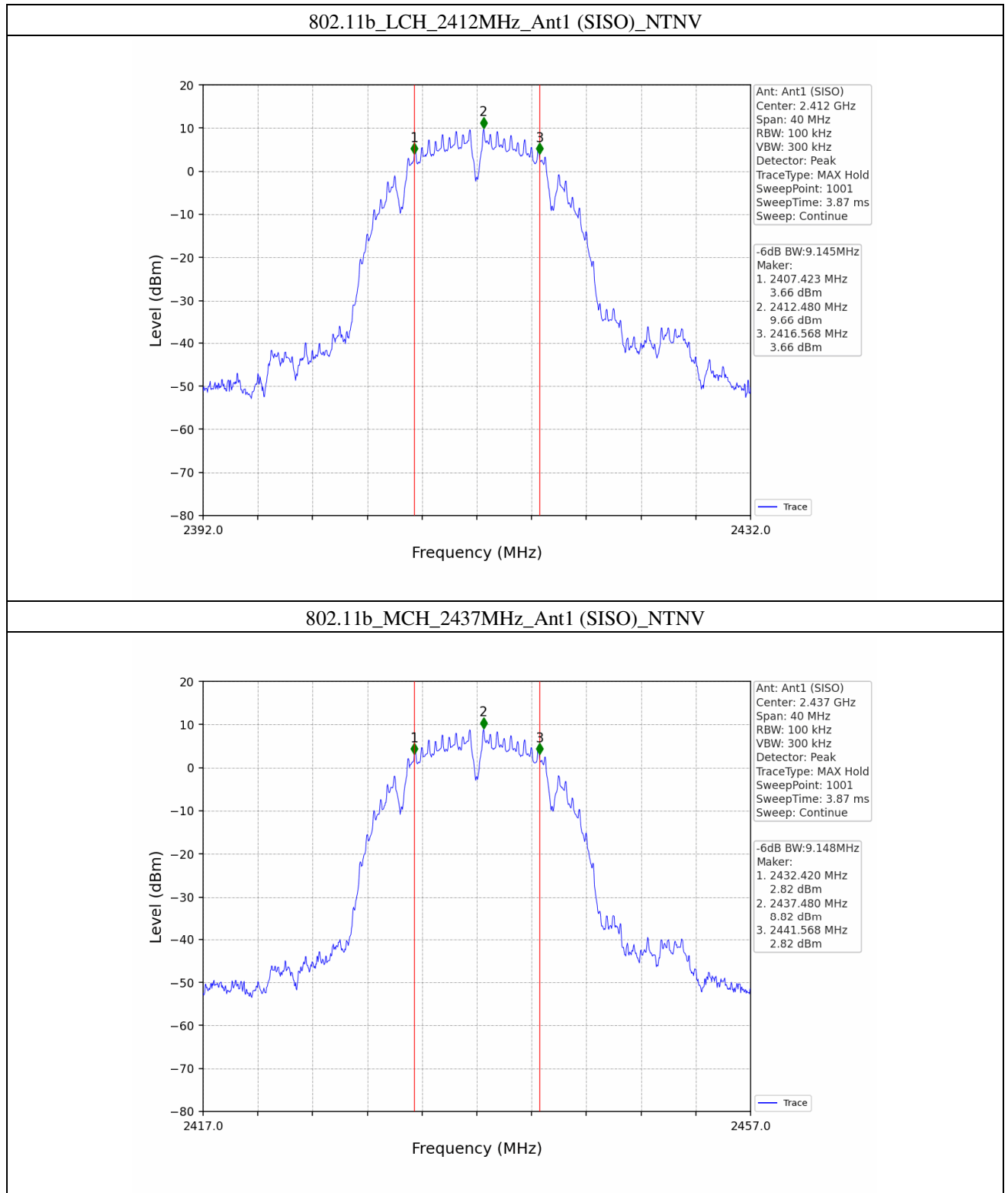
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.145	>=0.5	Pass
		2437	1	9.148	>=0.5	Pass
		2462	1	9.139	>=0.5	Pass
802.11g	SISO	2412	1	16.462	>=0.5	Pass
		2437	1	16.463	>=0.5	Pass
		2462	1	16.458	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.373	>=0.5	Pass
		2437	1	17.375	>=0.5	Pass
		2462	1	17.359	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	33.348	>=0.5	Pass
		2437	1	33.316	>=0.5	Pass
		2452	1	33.333	>=0.5	Pass



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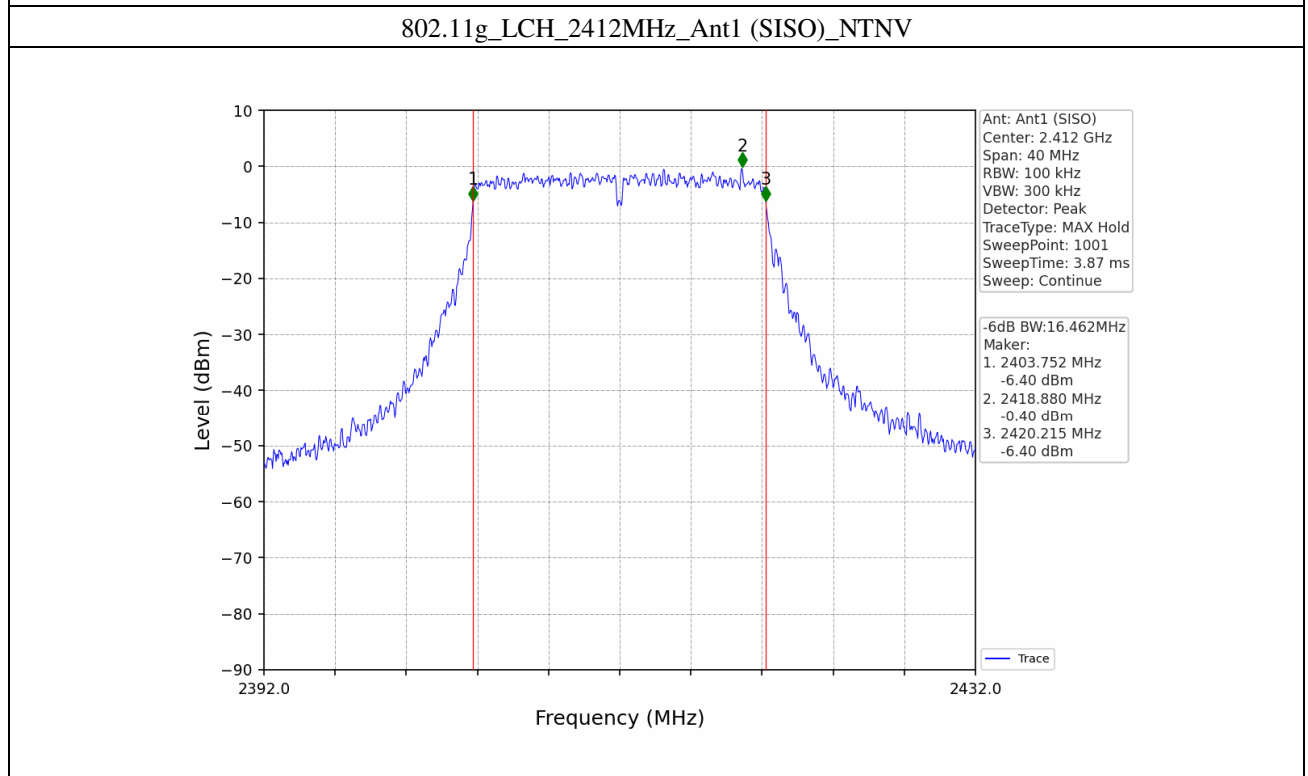
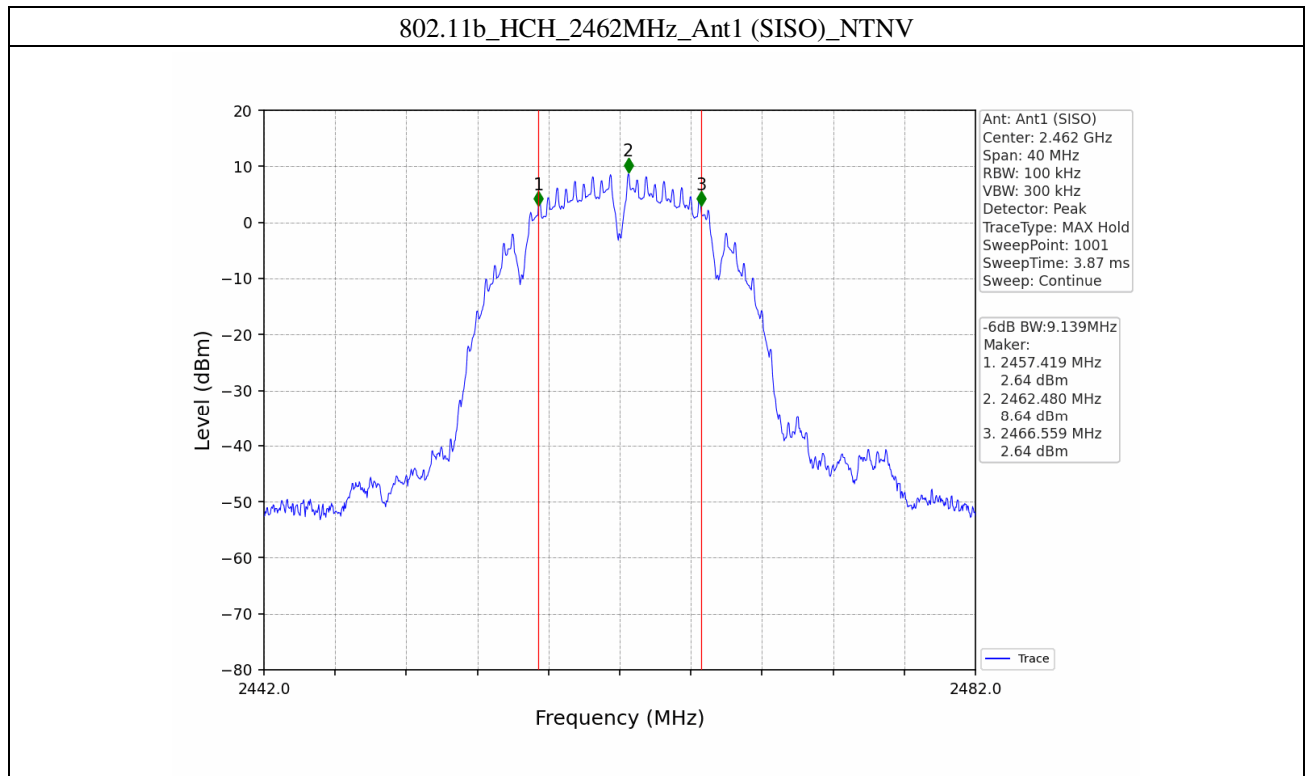


### 2.2.2 Test Graph



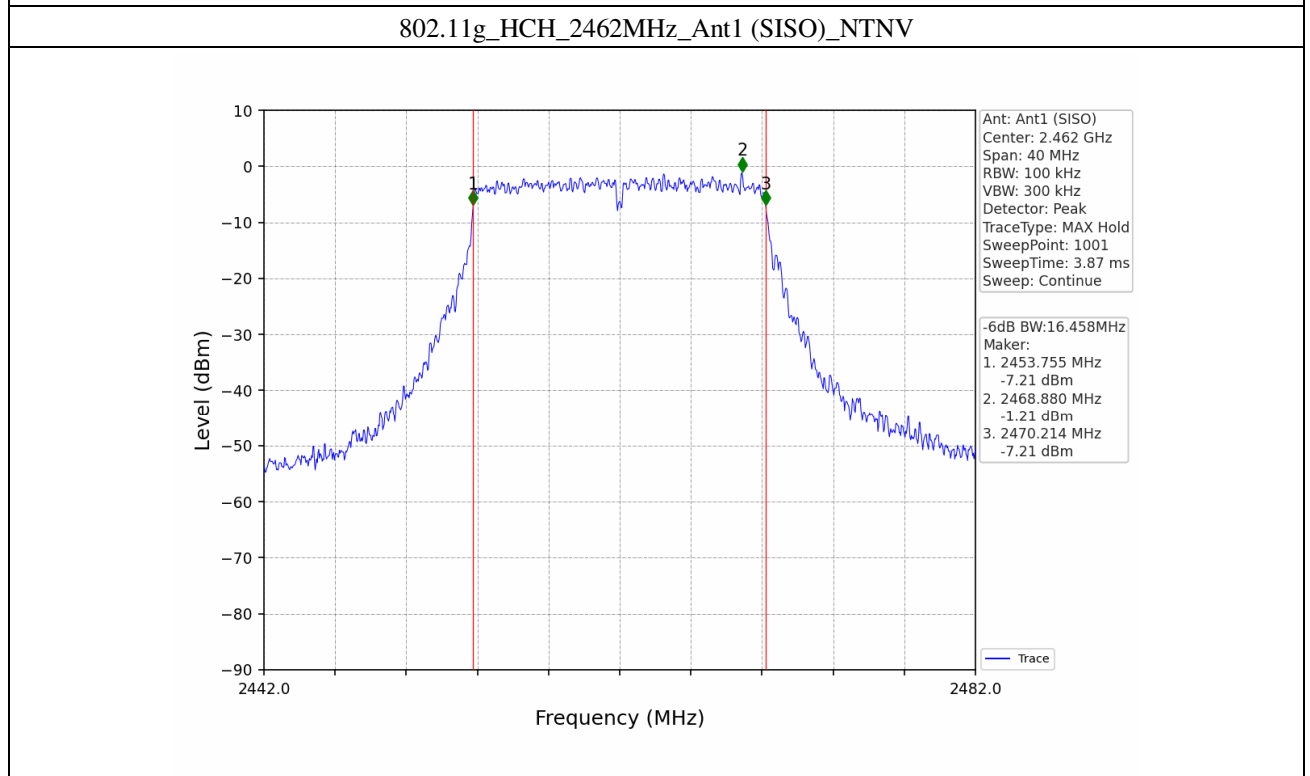
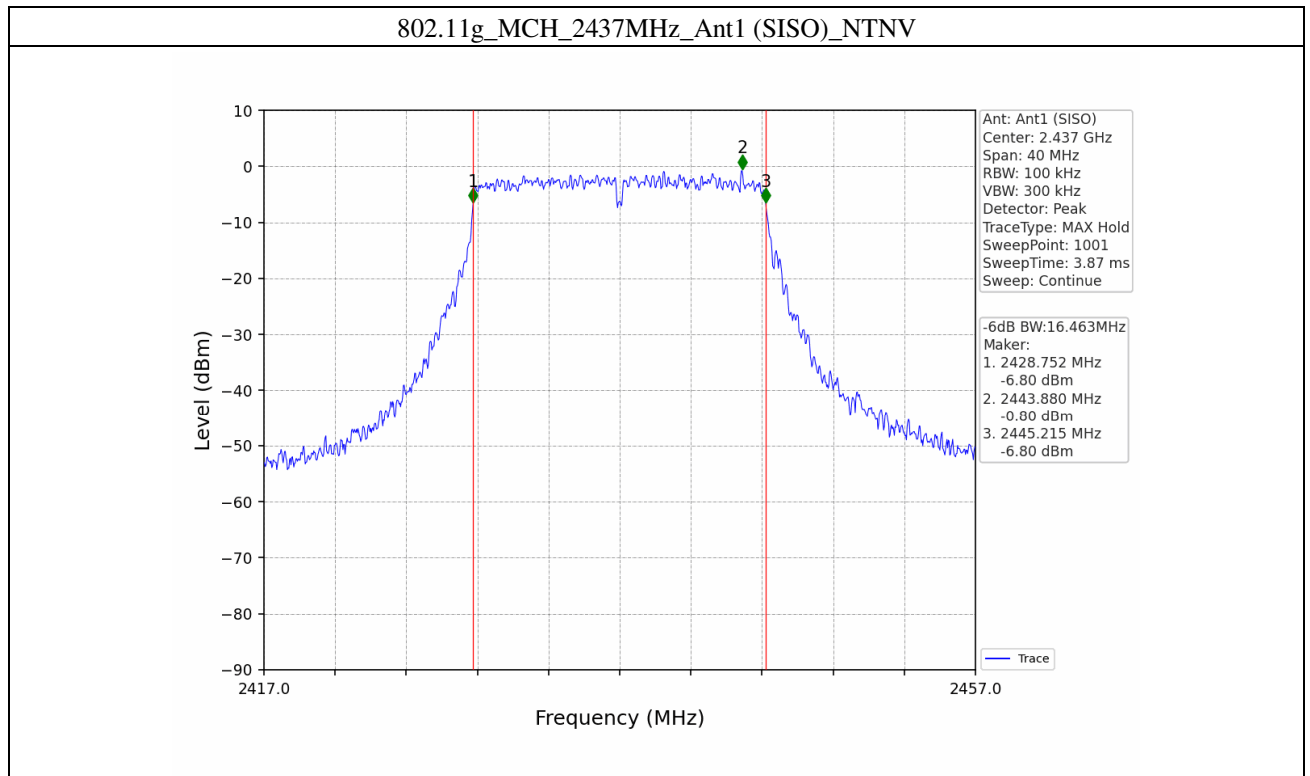
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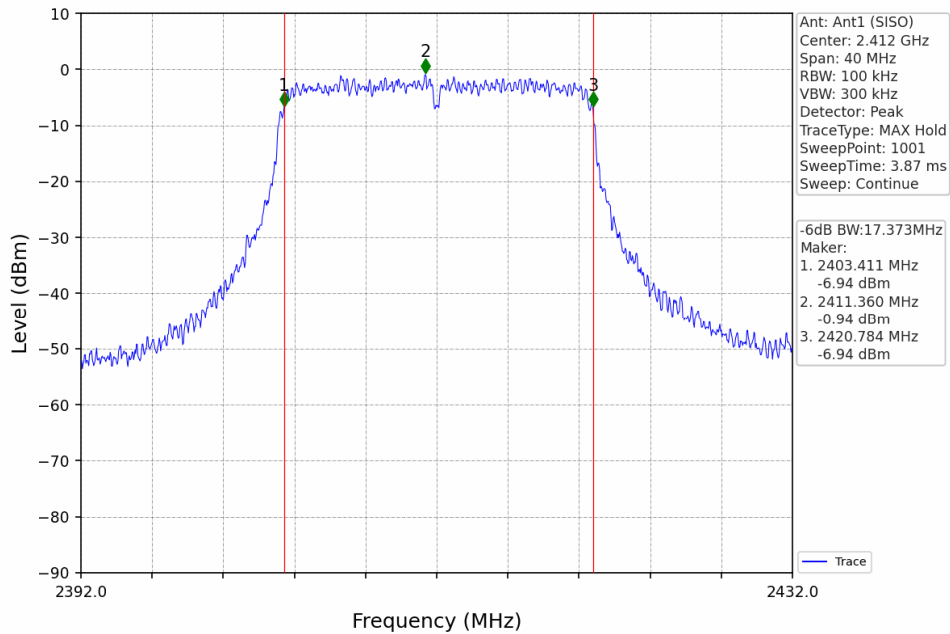
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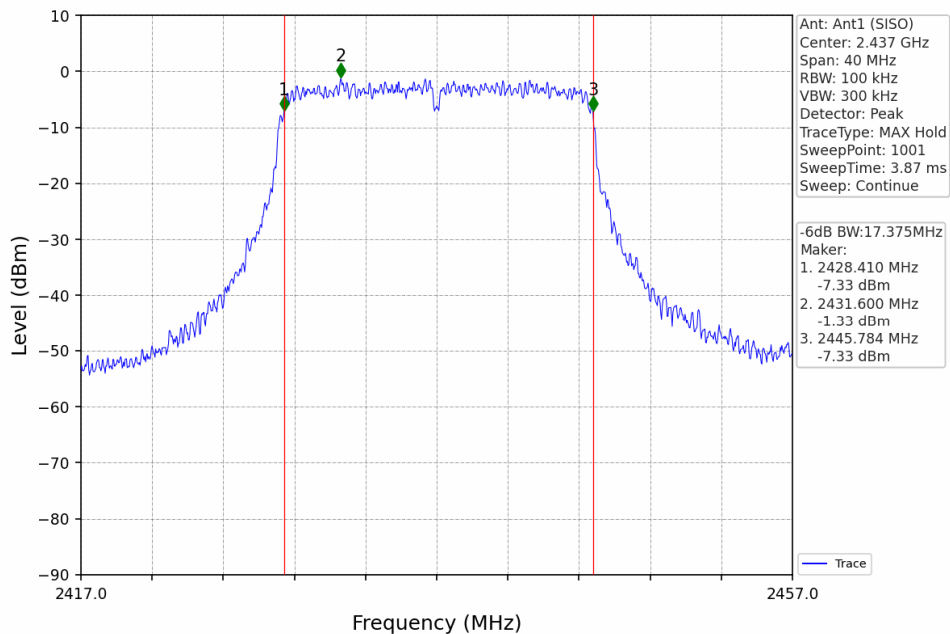
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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

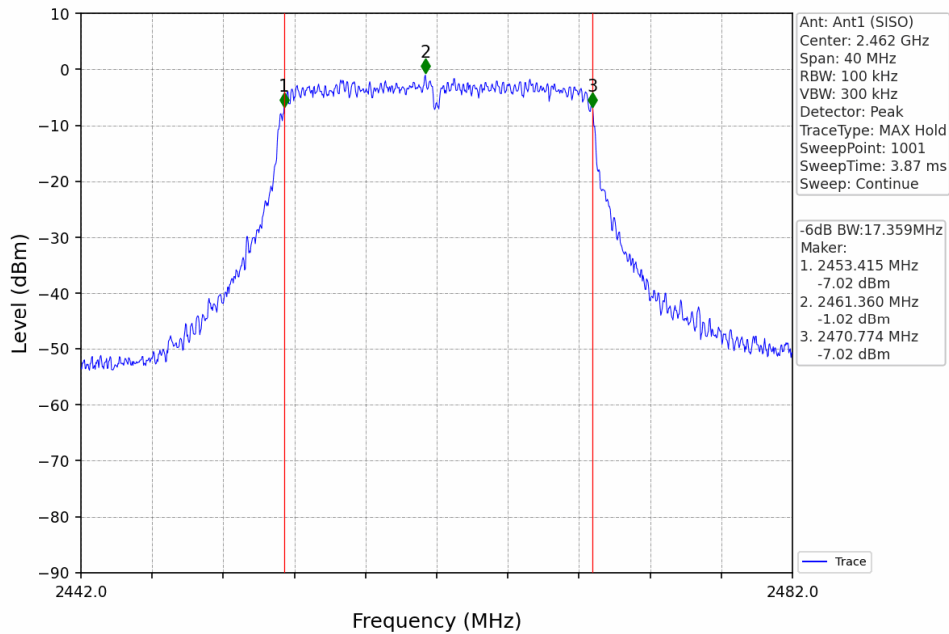


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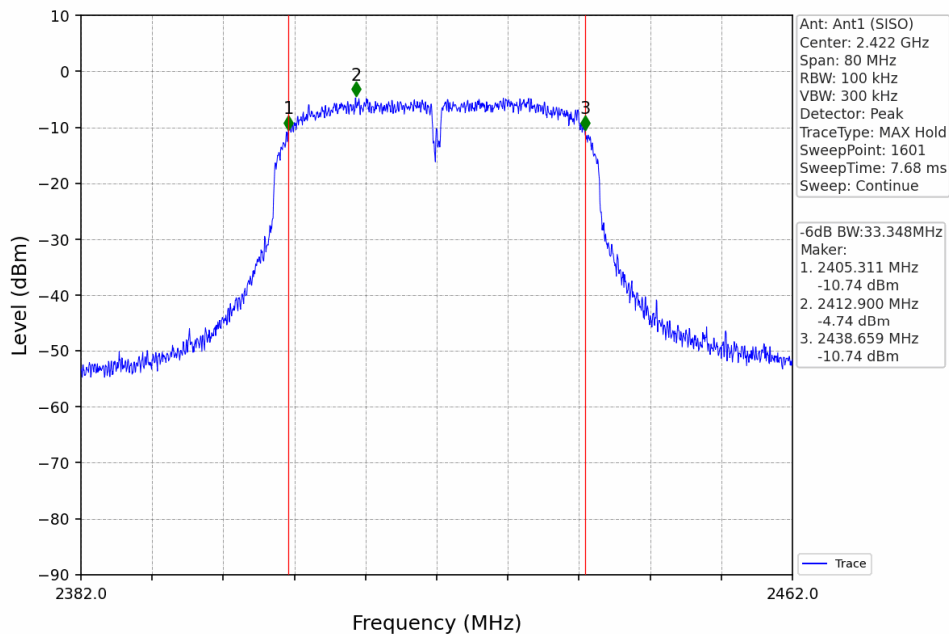
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



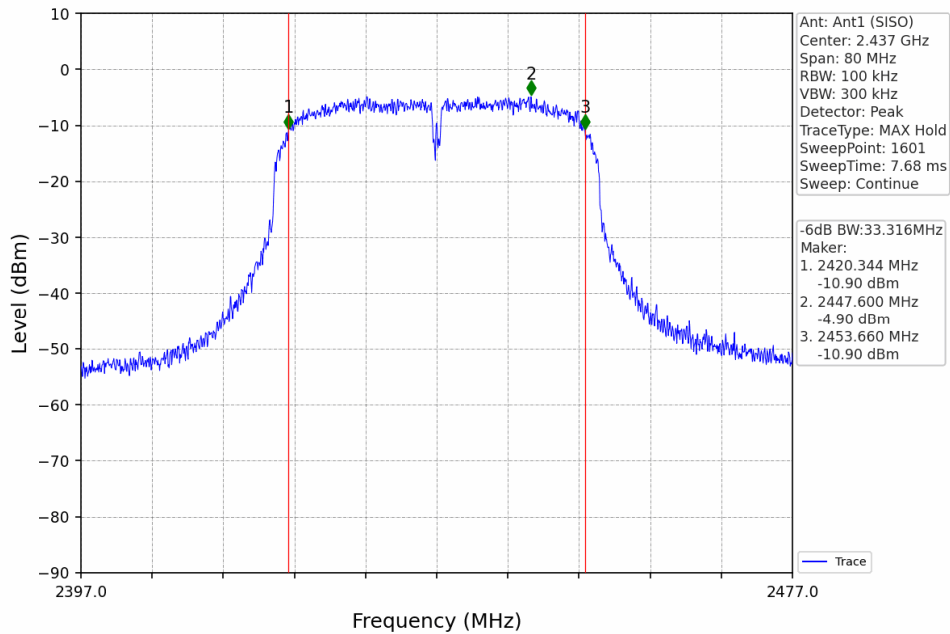
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



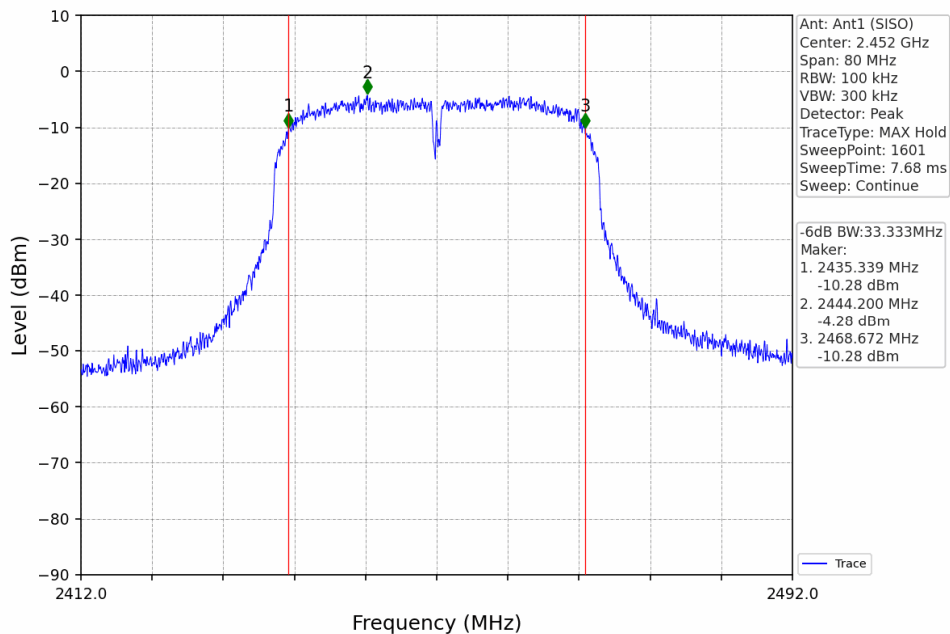
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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### 3. Maximum Conducted Output Average Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Average Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	16.40	<=30	Pass
		2437	16.21	<=30	Pass
		2462	16.27	<=30	Pass
802.11g	SISO	2412	12.12	<=30	Pass
		2437	11.82	<=30	Pass
		2462	11.70	<=30	Pass
802.11n (HT20)	SISO	2412	11.89	<=30	Pass
		2437	11.62	<=30	Pass
		2462	11.51	<=30	Pass
802.11n (HT40)	SISO	2422	11.91	<=30	Pass
		2437	11.63	<=30	Pass
		2452	11.62	<=30	Pass

Note1: Antenna Gain: Ant1: 1.62dBi;



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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	Limit	
802.11b	SISO	2412	-8.02	<=8	Pass
		2437	-8.31	<=8	Pass
		2462	-8.52	<=8	Pass
802.11g	SISO	2412	-13.83	<=8	Pass
		2437	-14.28	<=8	Pass
		2462	-13.33	<=8	Pass
802.11n (HT20)	SISO	2412	-14.63	<=8	Pass
		2437	-13.74	<=8	Pass
		2462	-13.40	<=8	Pass
802.11n (HT40)	SISO	2422	-14.38	<=8	Pass
		2437	-14.67	<=8	Pass
		2452	-13.72	<=8	Pass

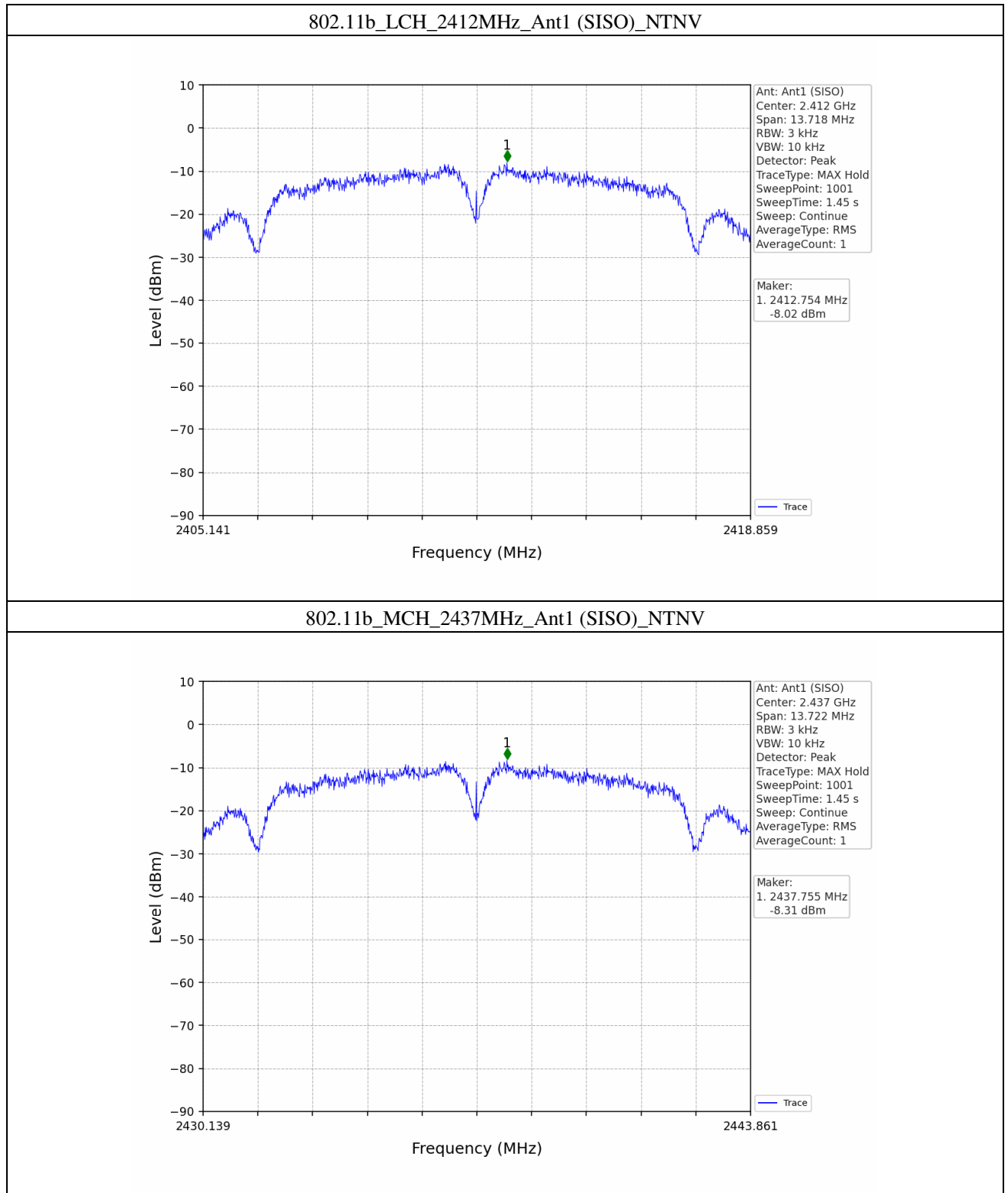
Note1: Antenna Gain: Ant1: 1.62dBi;



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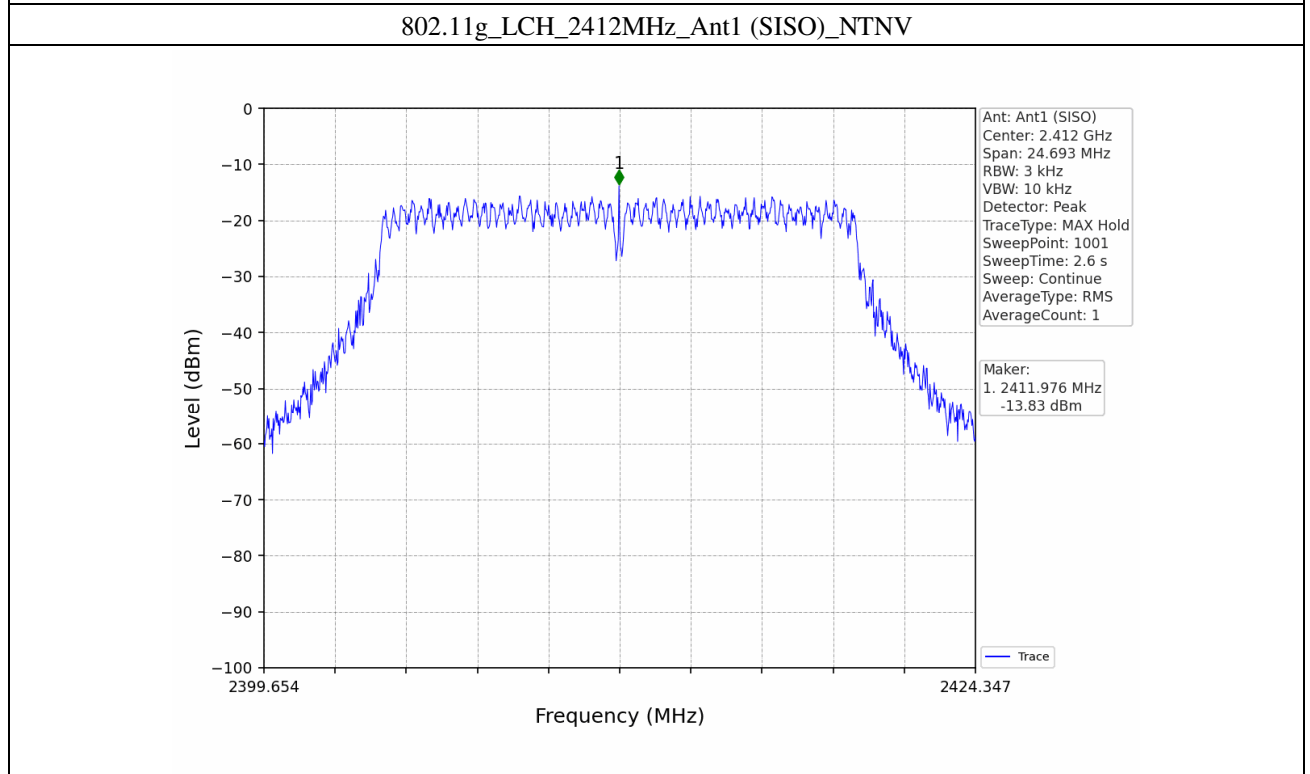
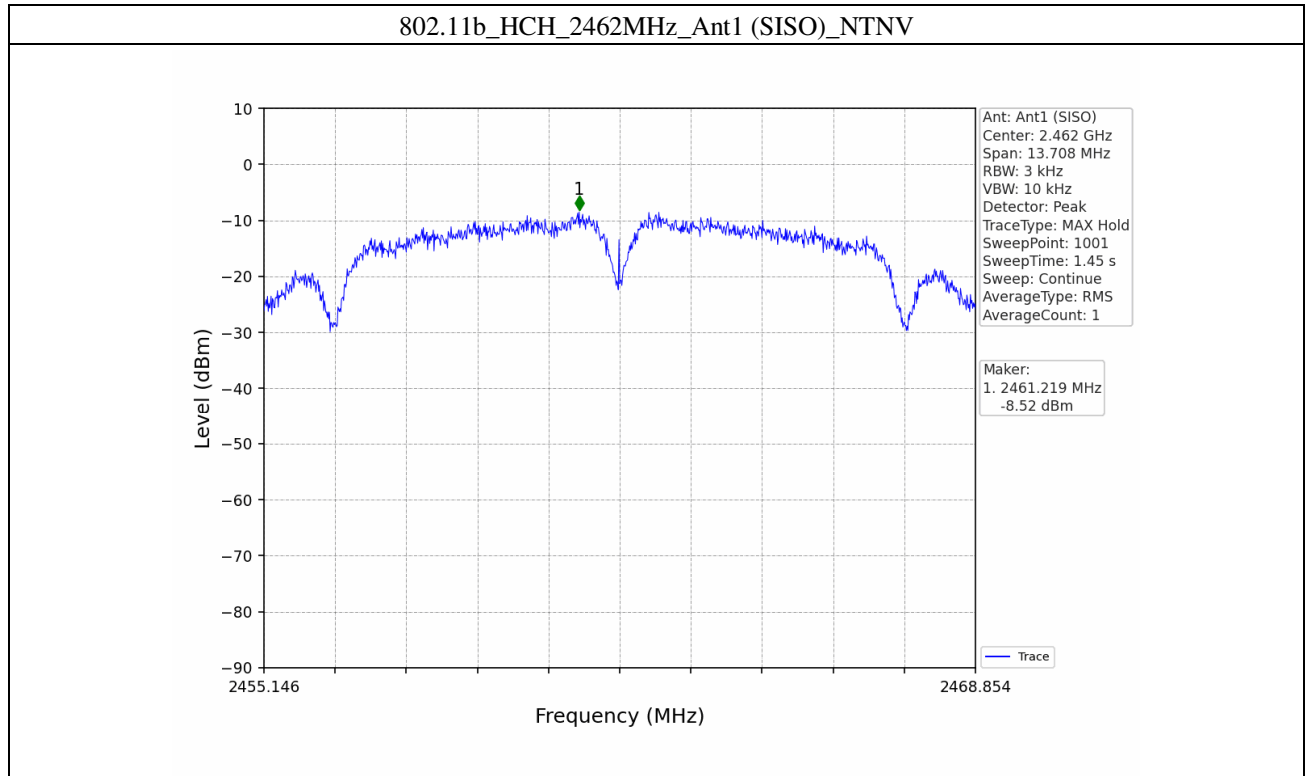


### 4.1.2 Test Graph

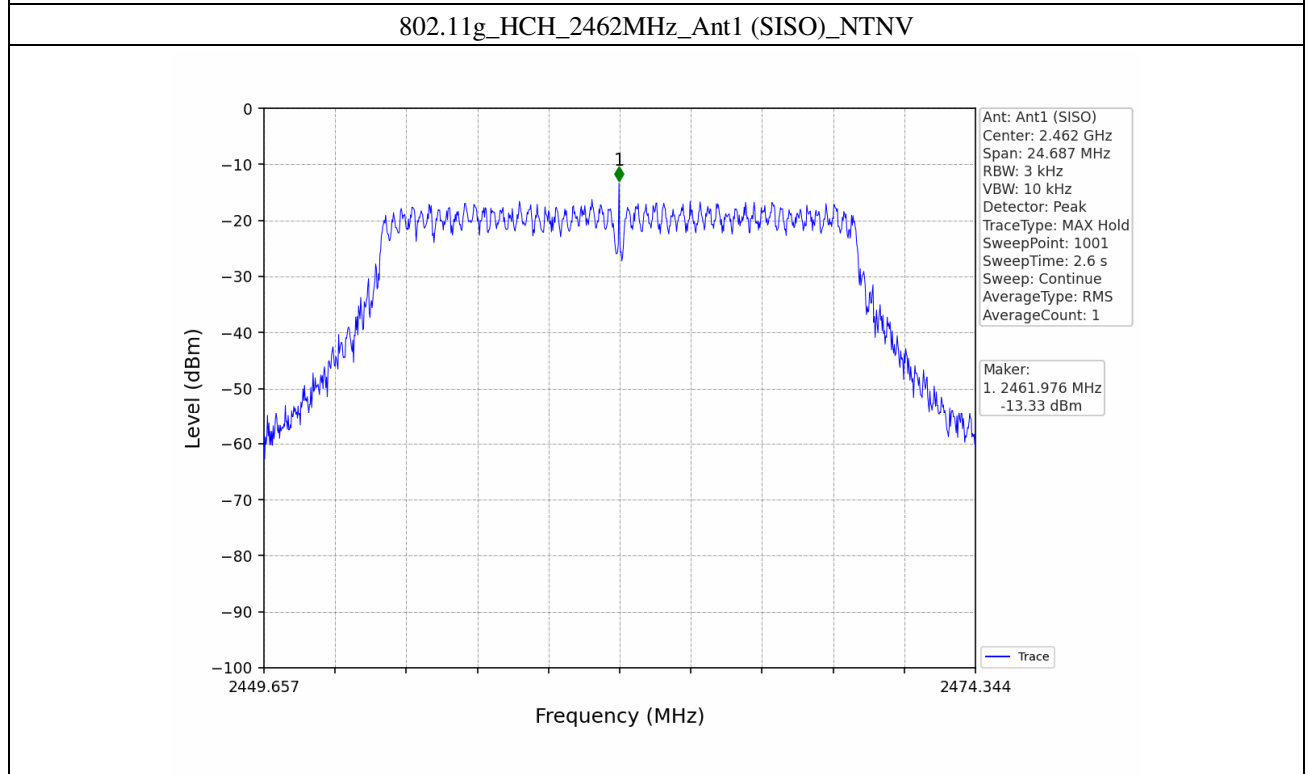
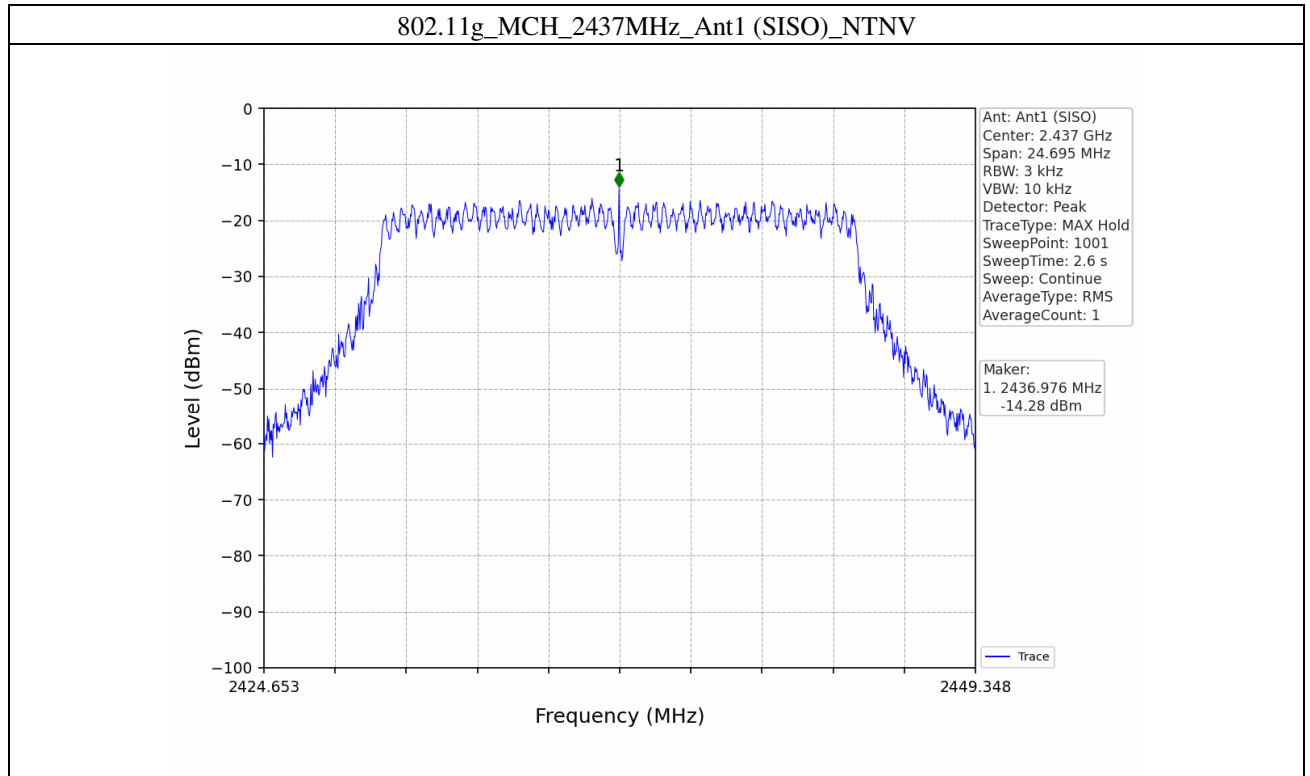


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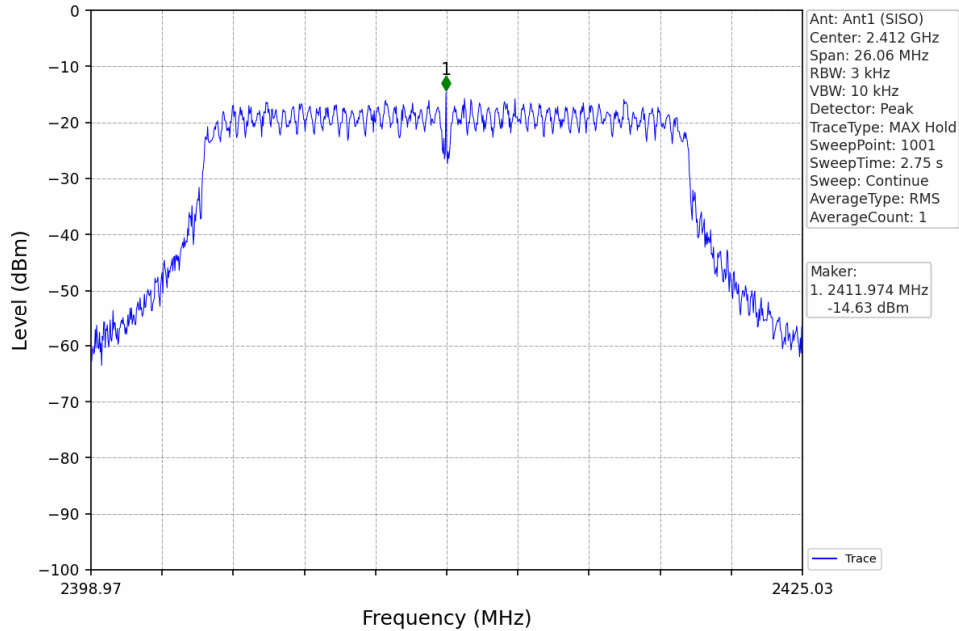
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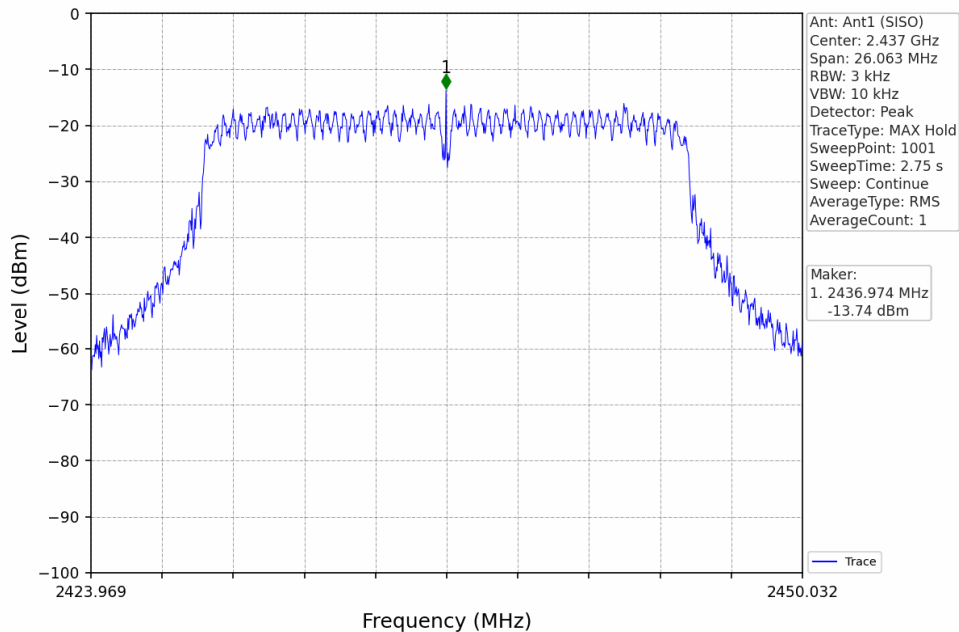
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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

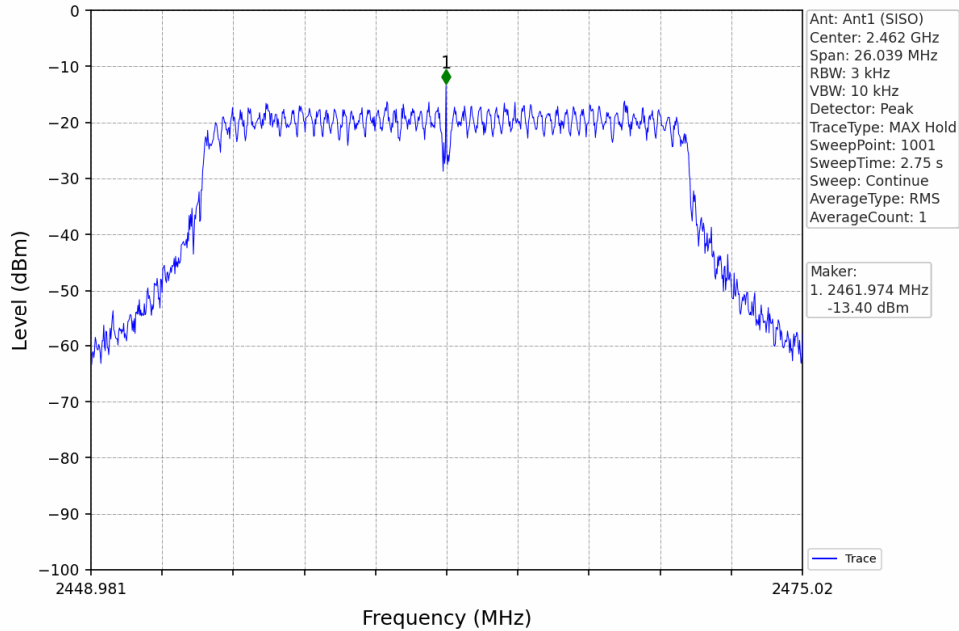


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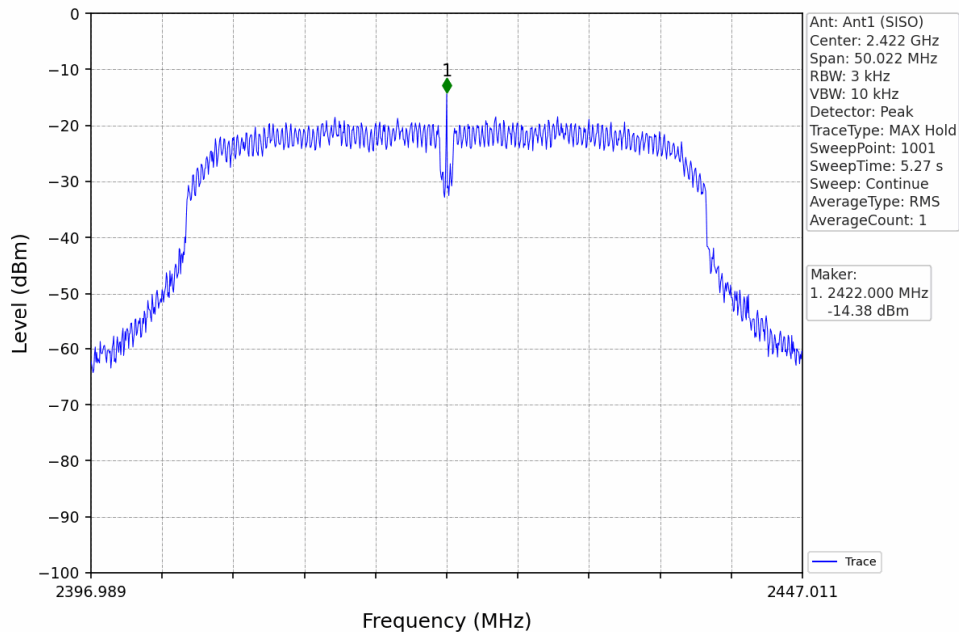
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

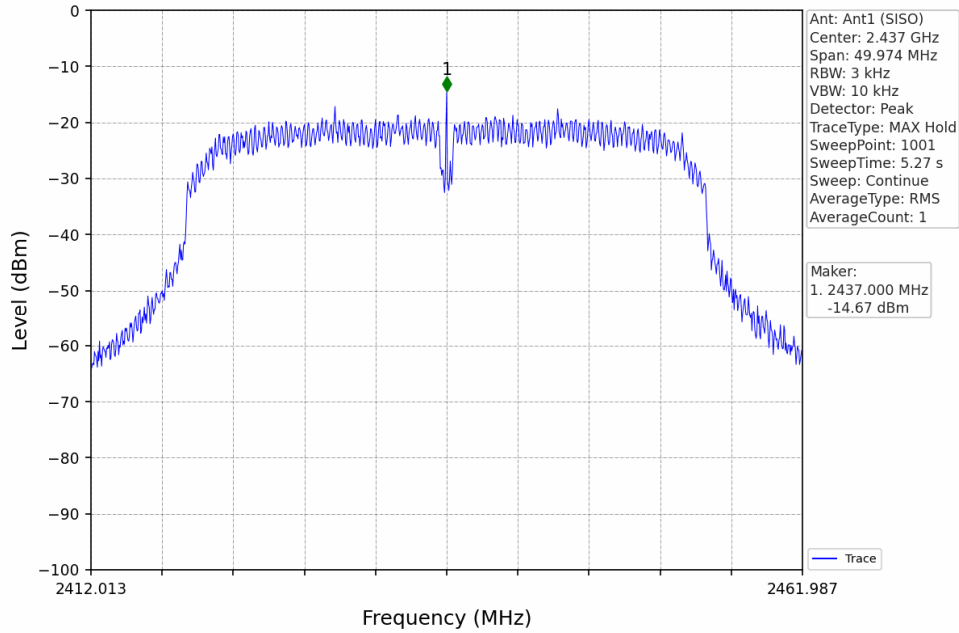


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

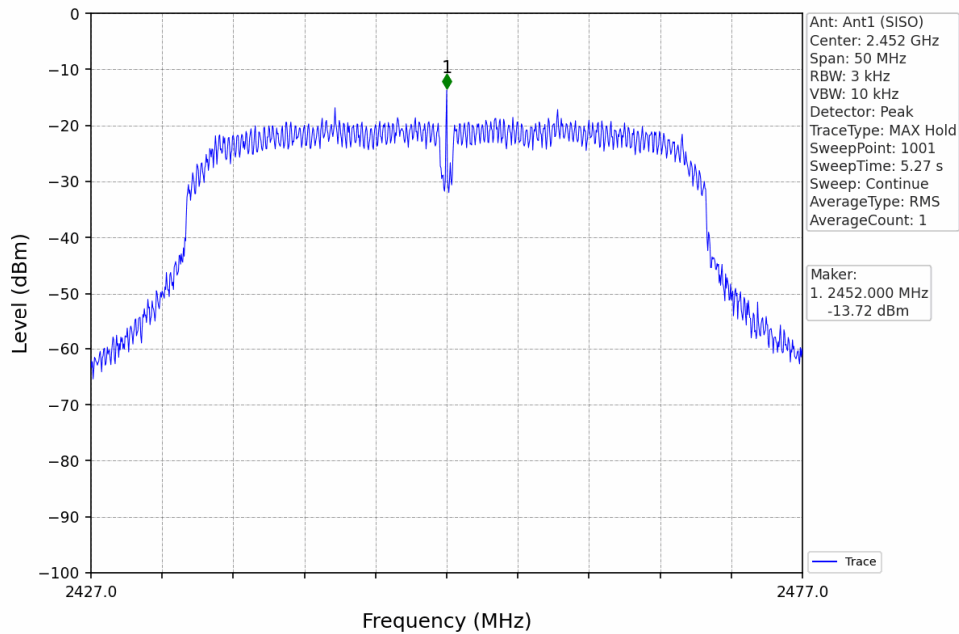


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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

### 5.1 Ref

#### 5.1.1 Test Result

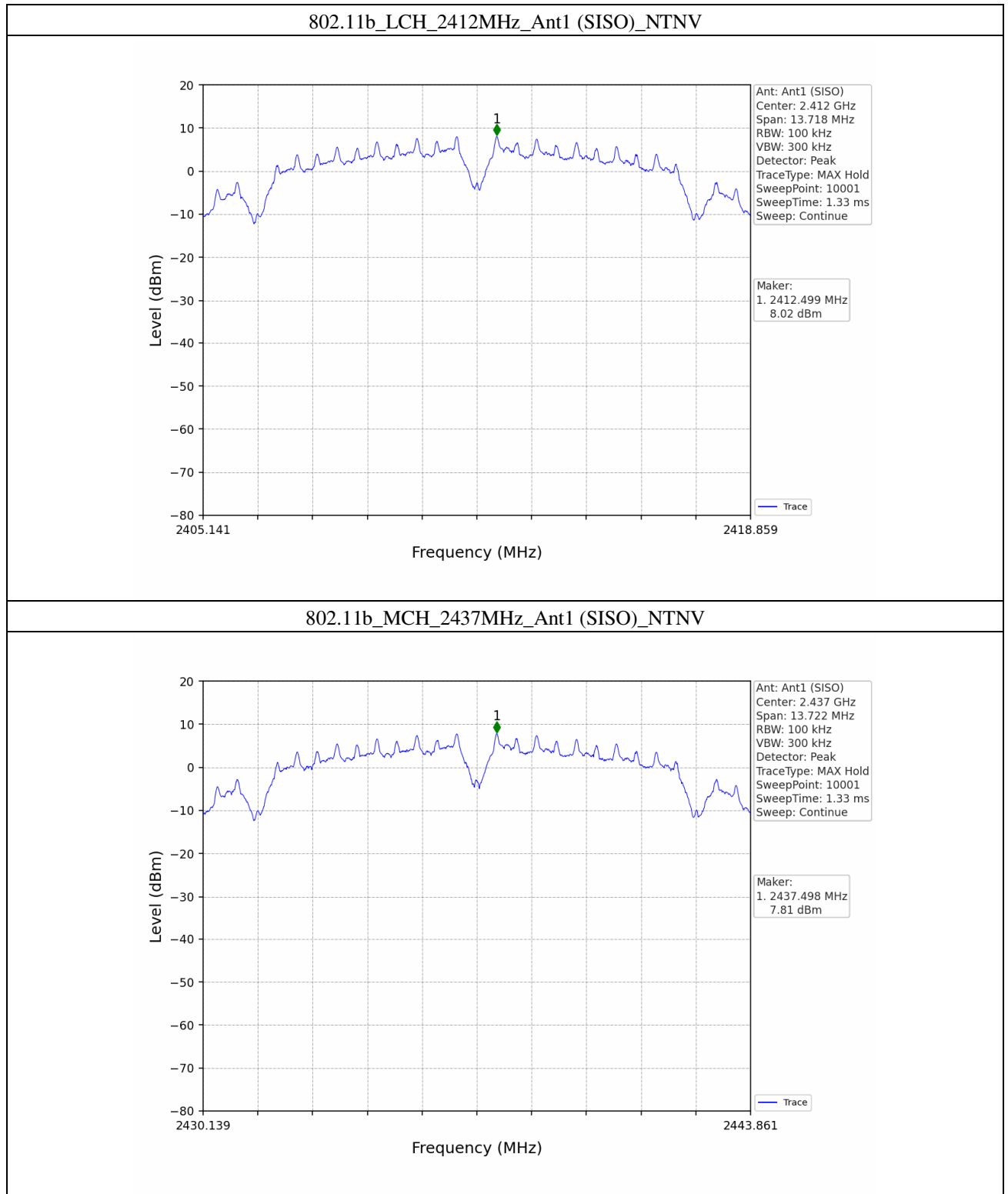
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	8.02
		2437	1	7.81
		2462	1	7.85
802.11g	SISO	2412	1	-0.53
		2437	1	-1.25
		2462	1	-1.38
802.11n (HT20)	SISO	2412	1	-0.66
		2437	1	-0.92
		2462	1	-1.46
802.11n (HT40)	SISO	2422	1	-4.64
		2437	1	-4.73
		2452	1	-4.60

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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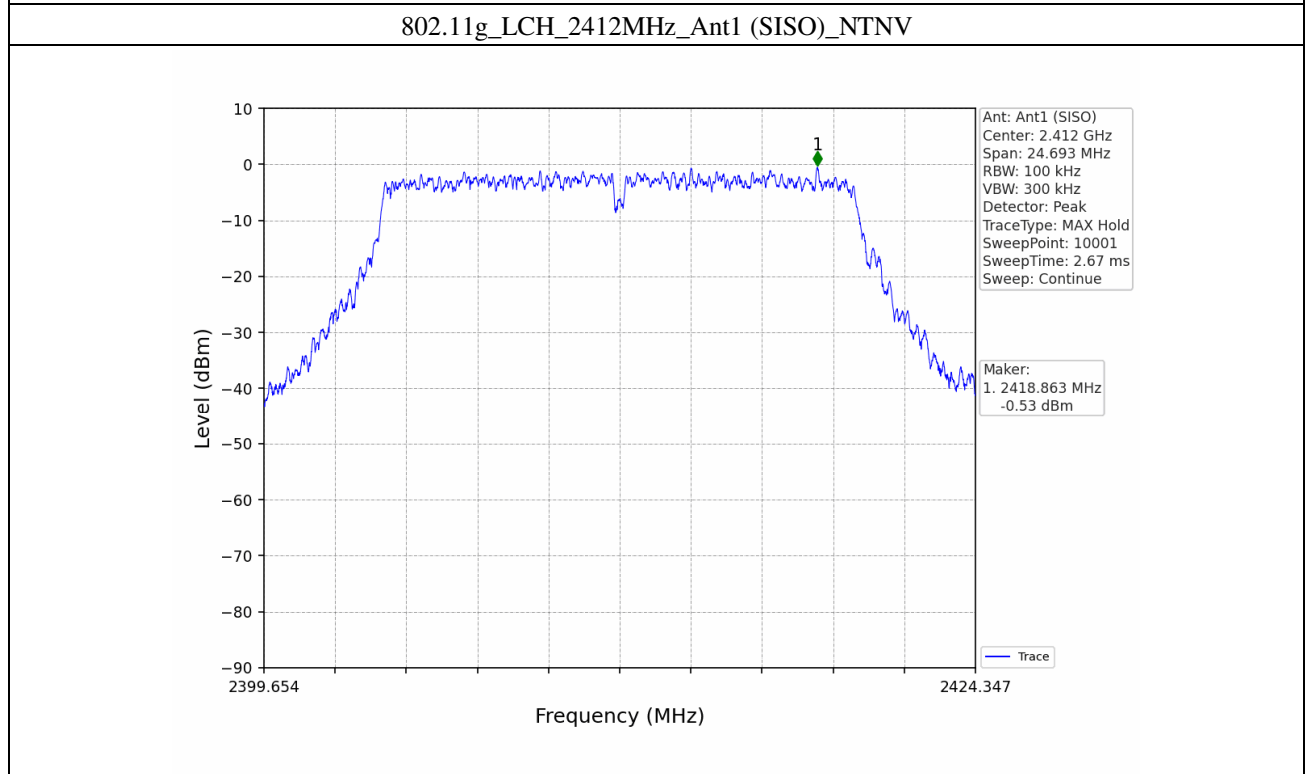
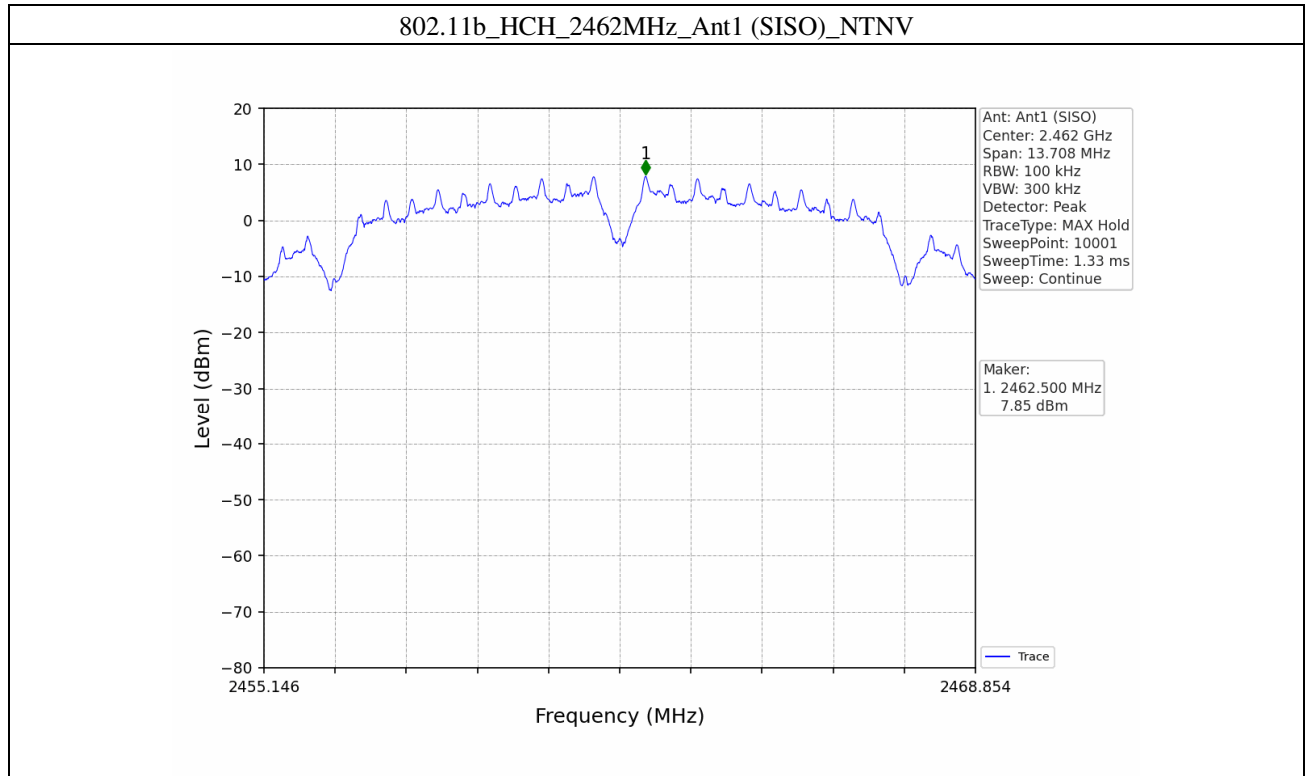
### 5.1.2 Test Graph



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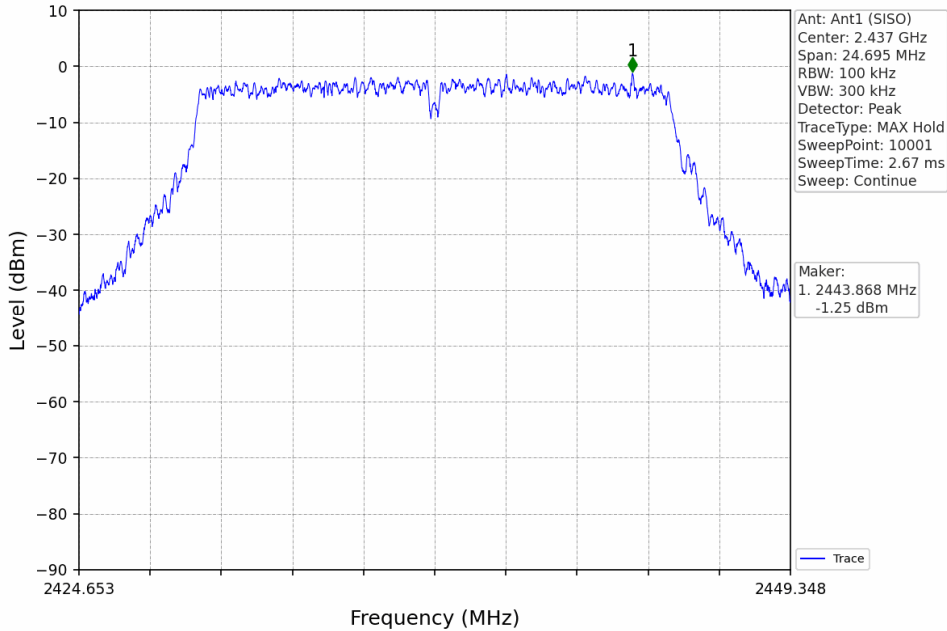




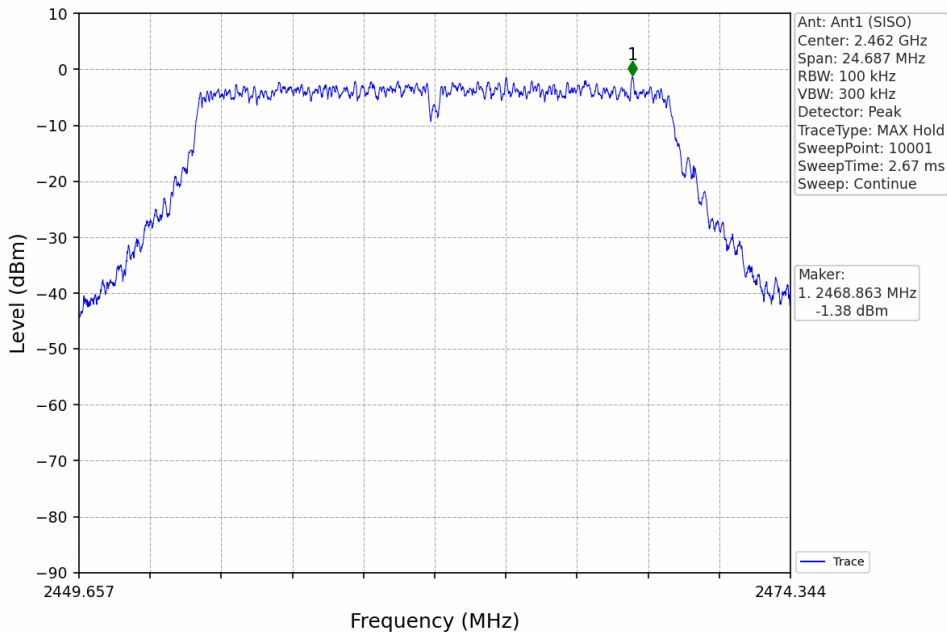
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

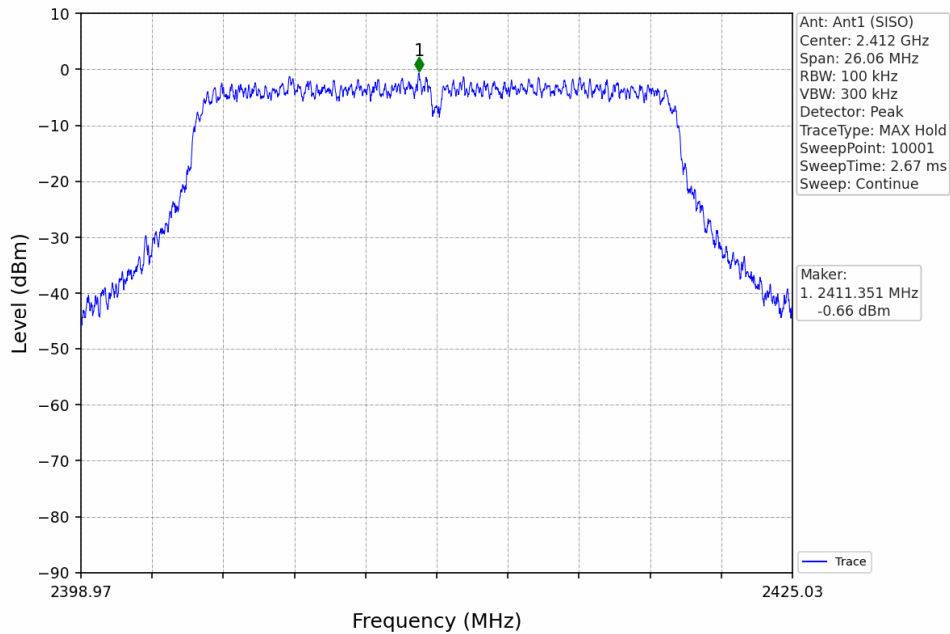


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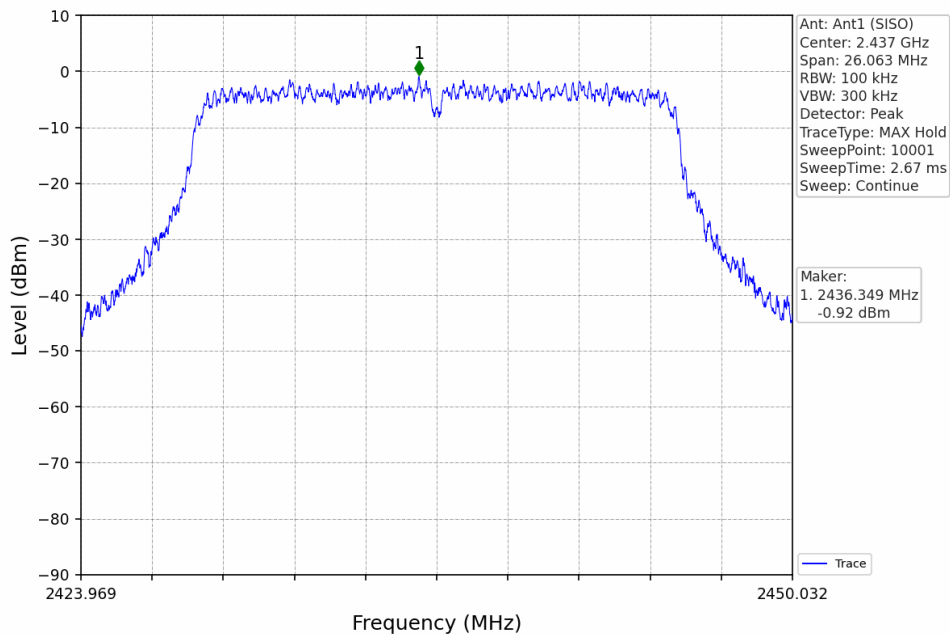


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



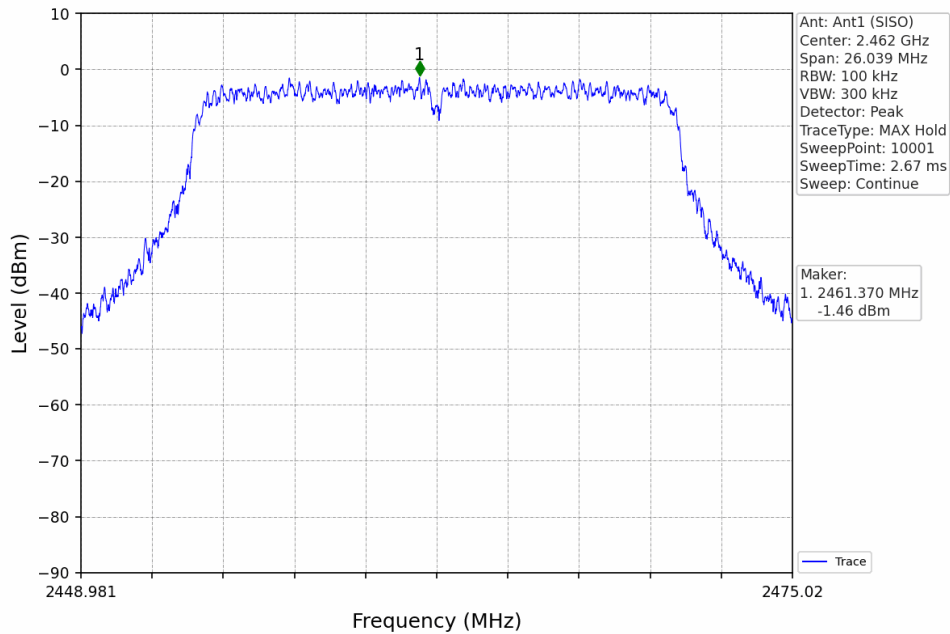
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



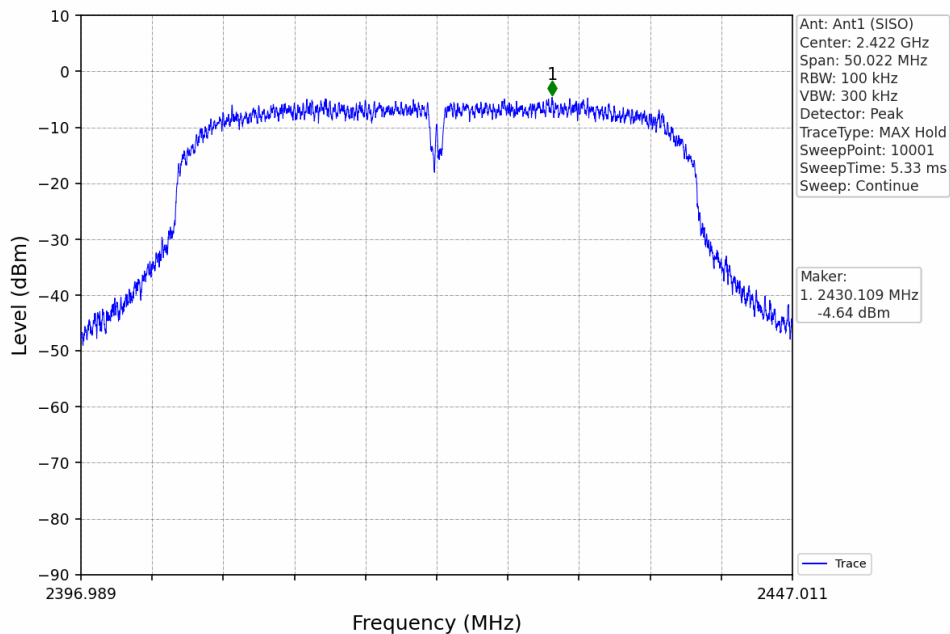
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

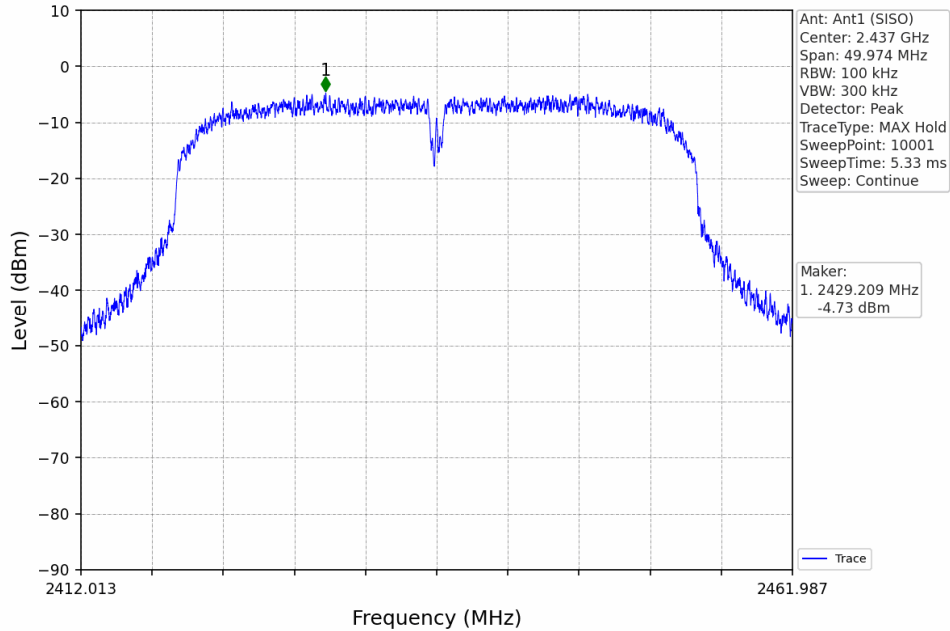


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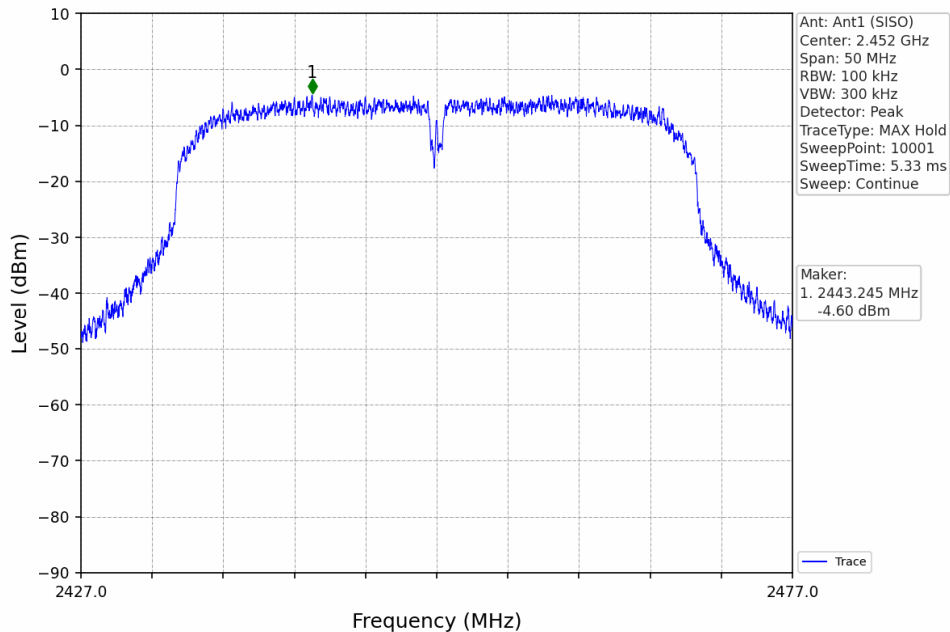
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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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	8.02	-21.98	Pass
		2437	1	8.02	-21.98	Pass
		2462	1	8.02	-21.98	Pass
802.11g	SISO	2412	1	-0.53	-30.53	Pass
		2437	1	-0.53	-30.53	Pass
		2462	1	-0.53	-30.53	Pass
802.11n (HT20)	SISO	2412	1	-0.66	-30.66	Pass
		2437	1	-0.66	-30.66	Pass
		2462	1	-0.66	-30.66	Pass
802.11n (HT40)	SISO	2422	1	-4.60	-34.60	Pass
		2437	1	-4.60	-34.60	Pass
		2452	1	-4.60	-34.60	Pass

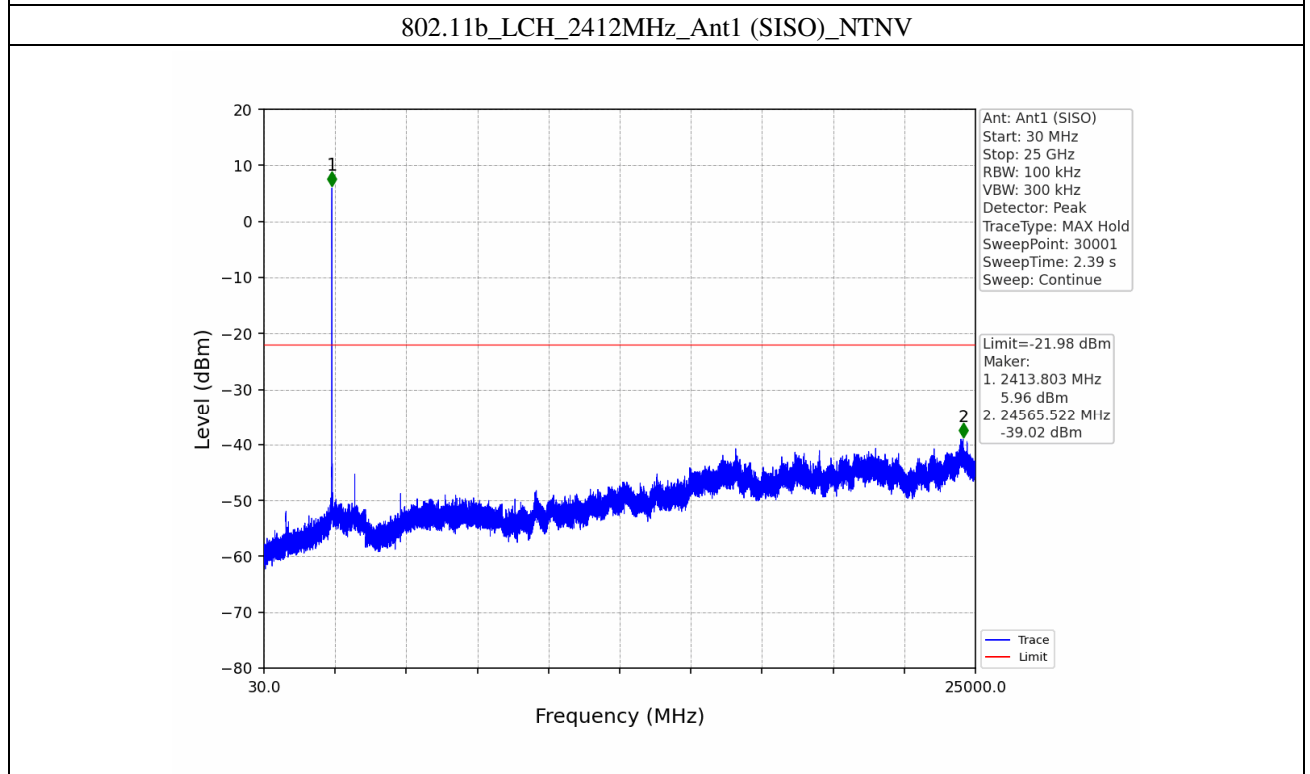
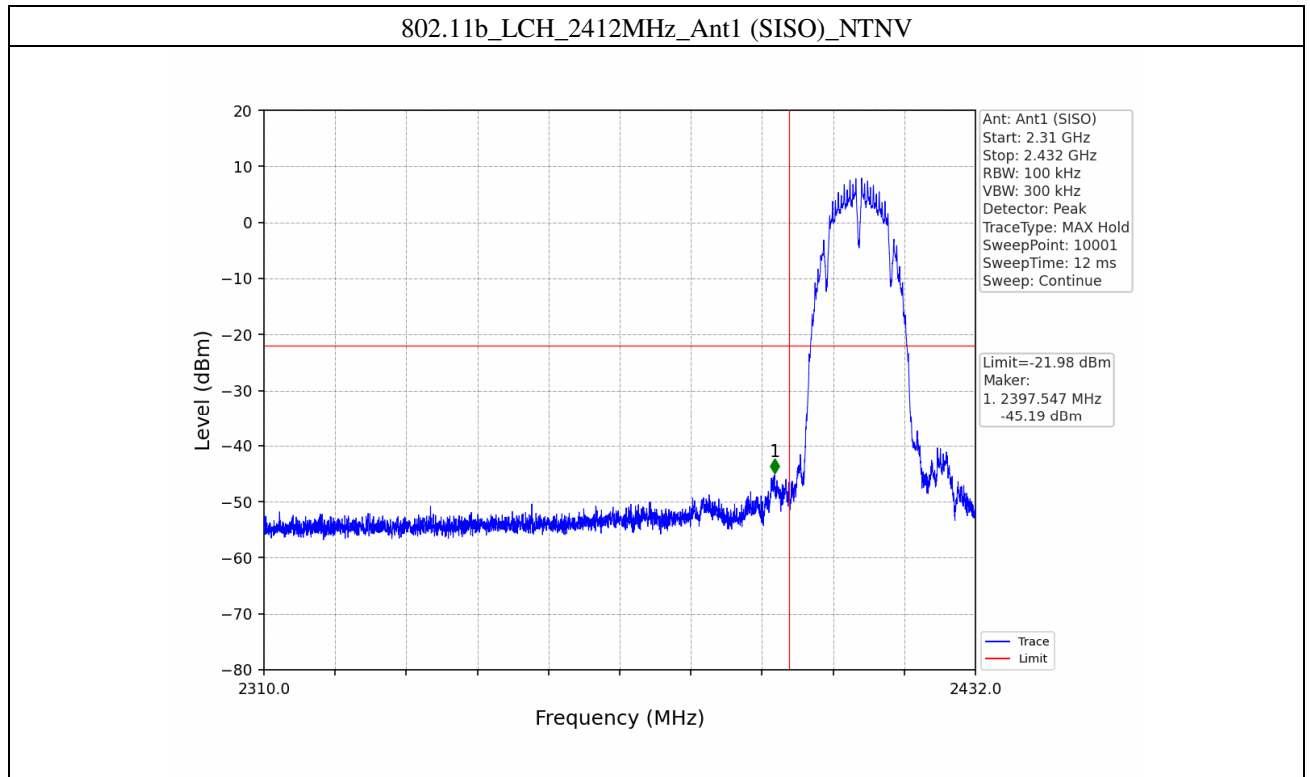
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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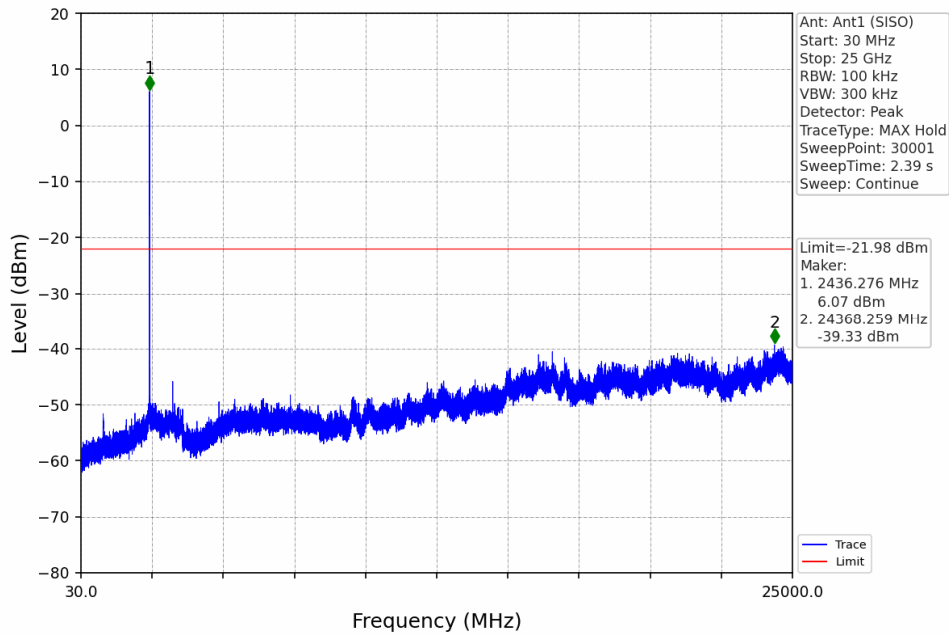
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 Guangzhou Branch Testing Center EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

### 5.2.2 Test Graph

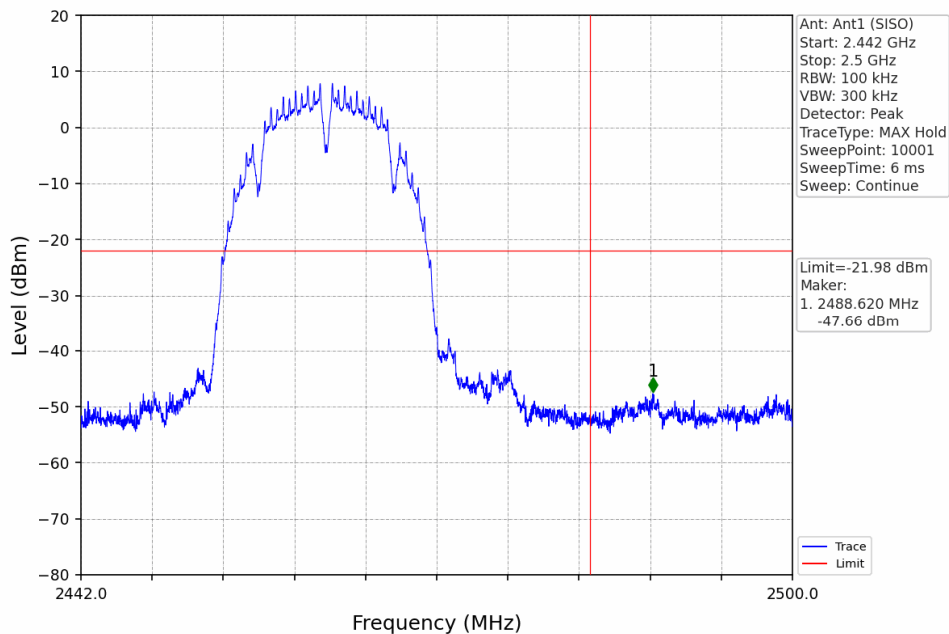


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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



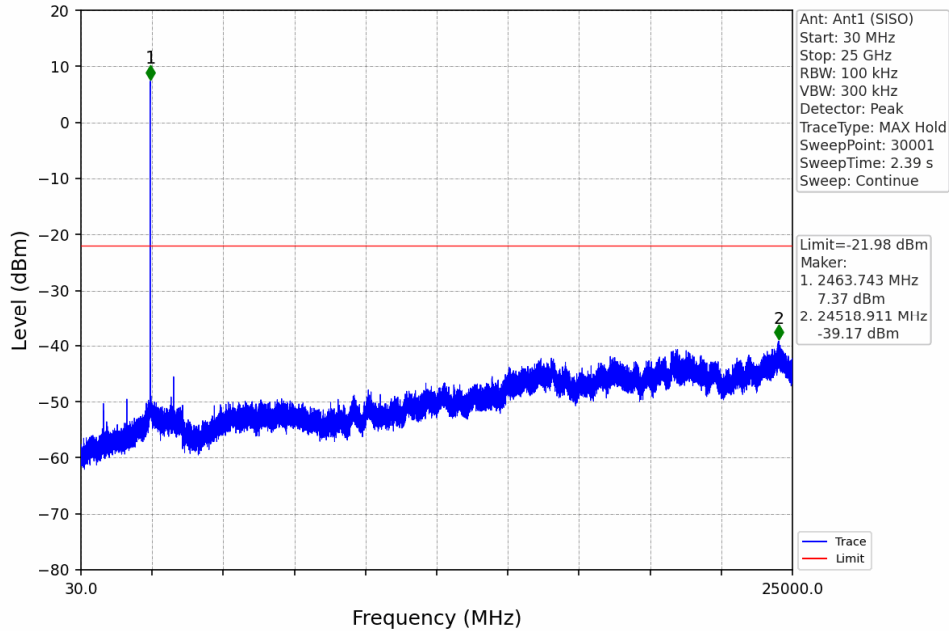
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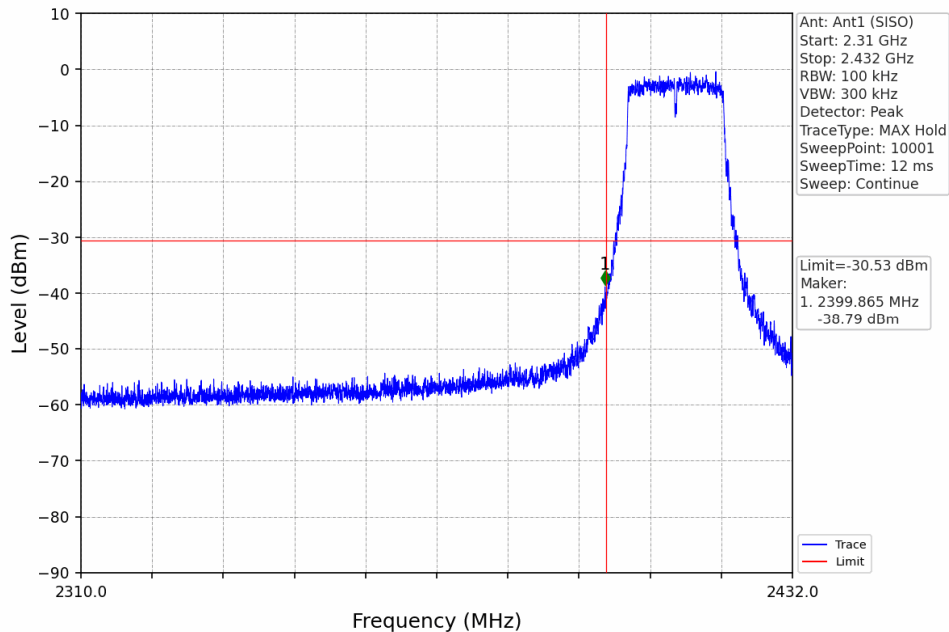
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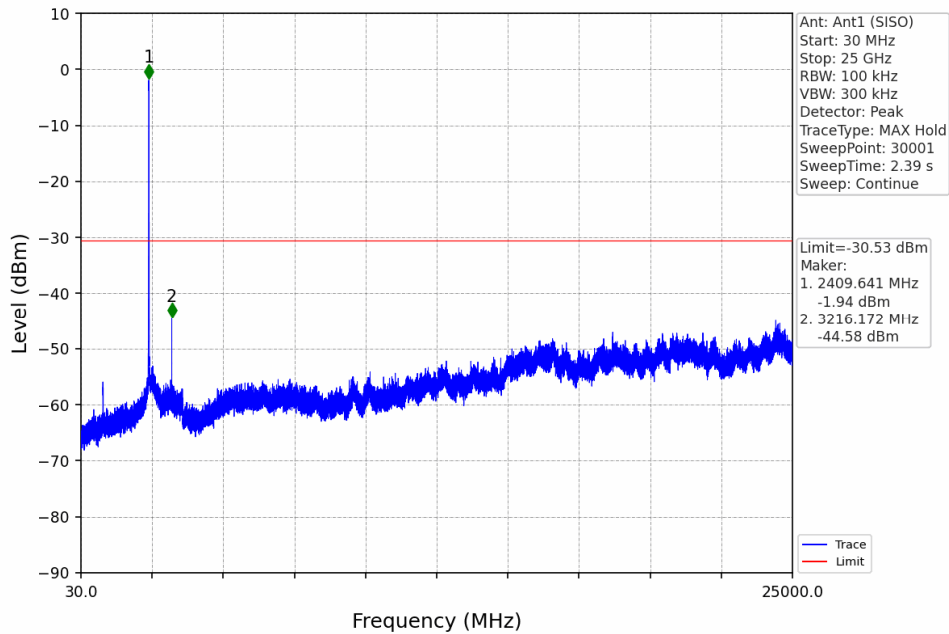
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



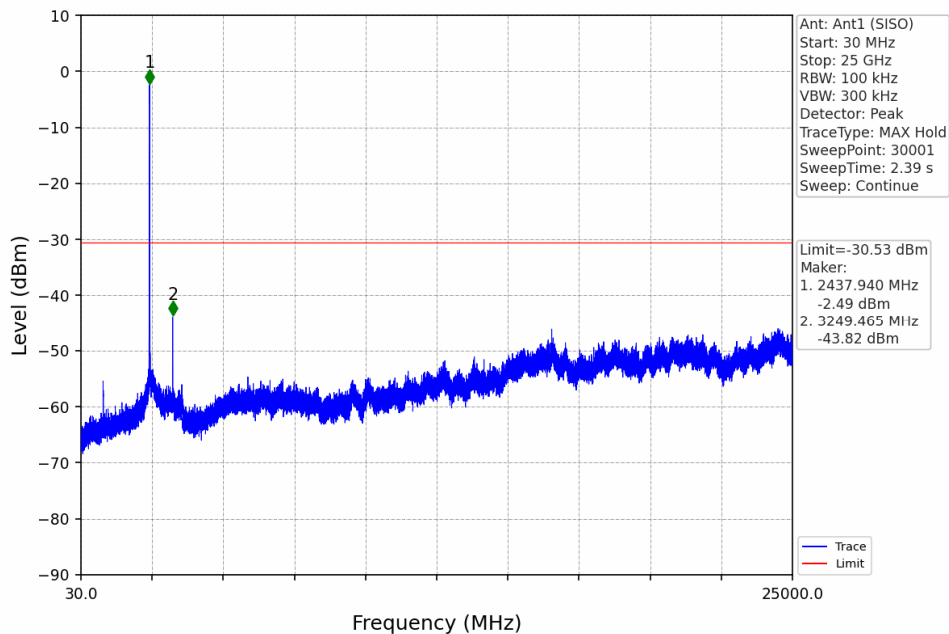
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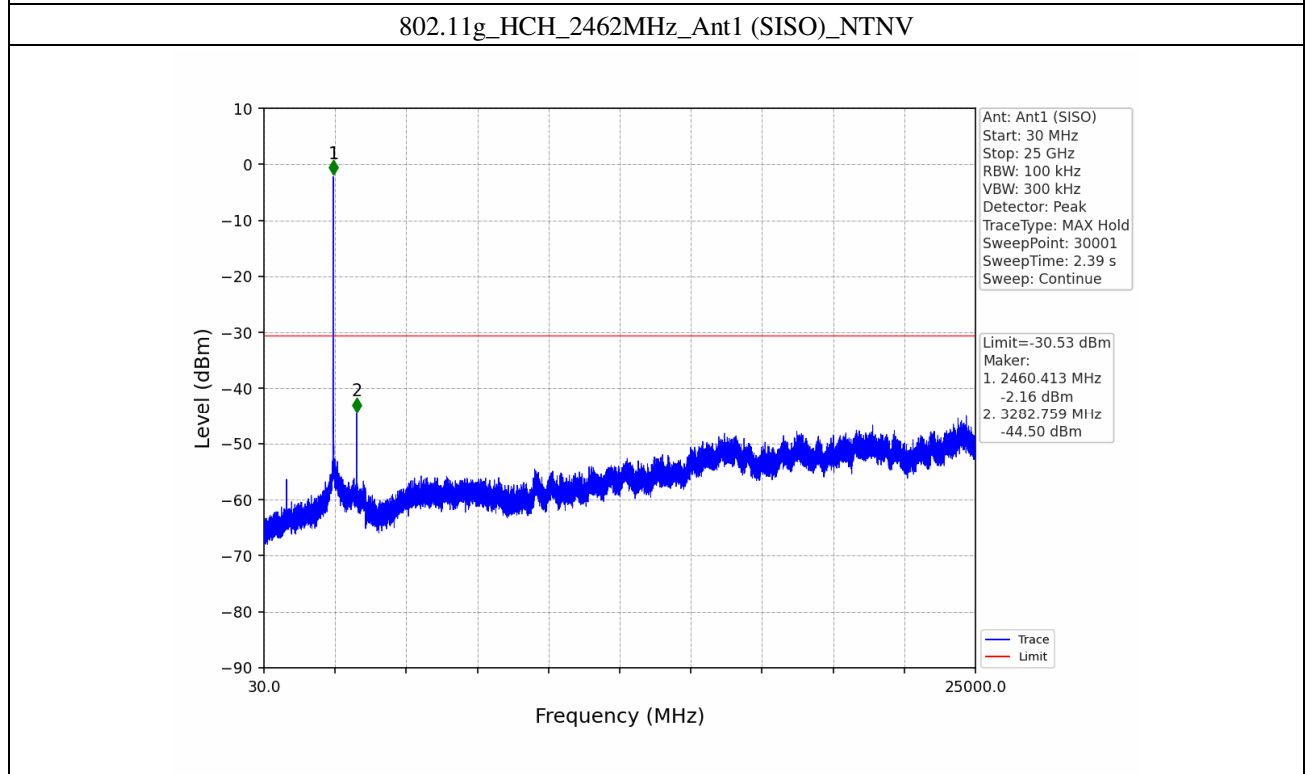
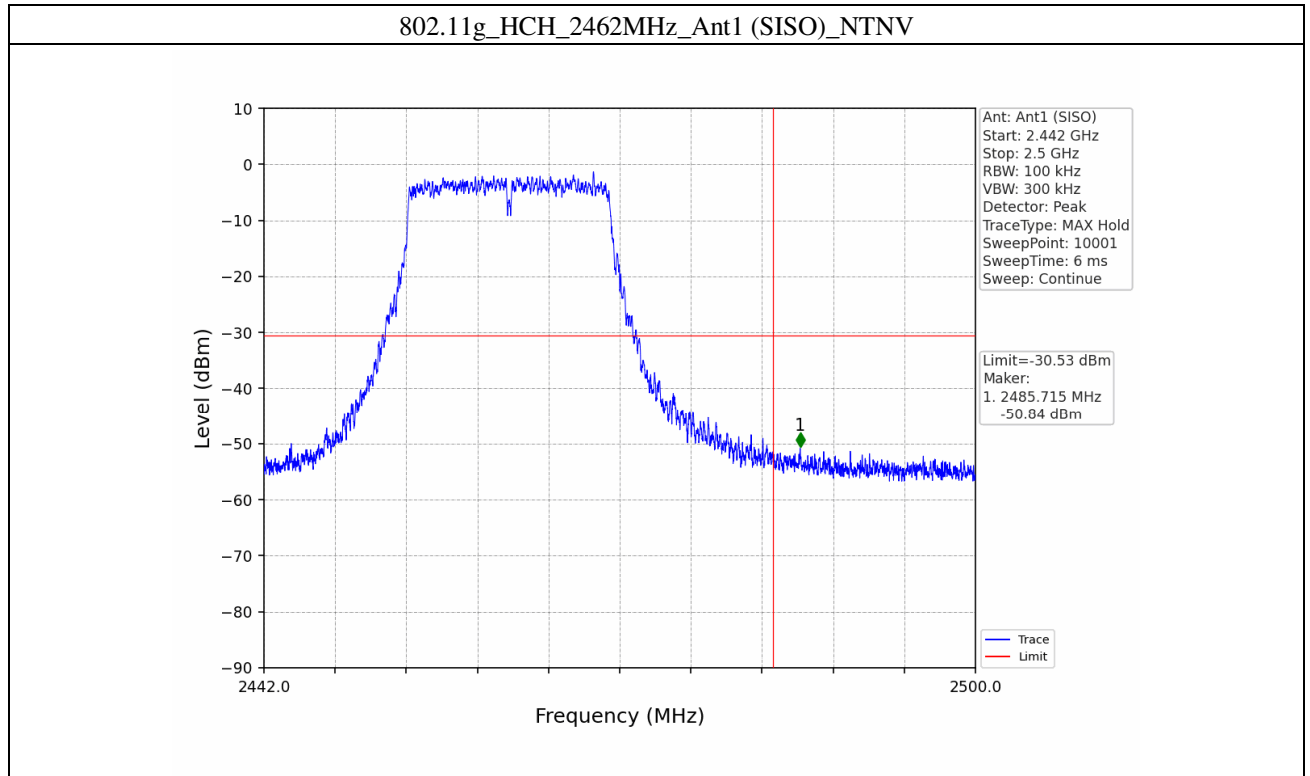
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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

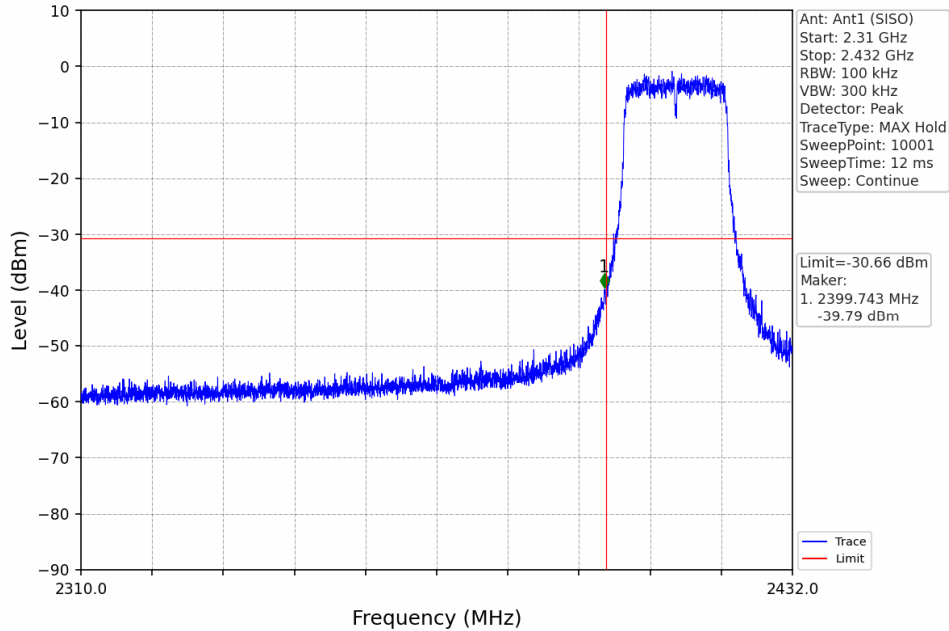


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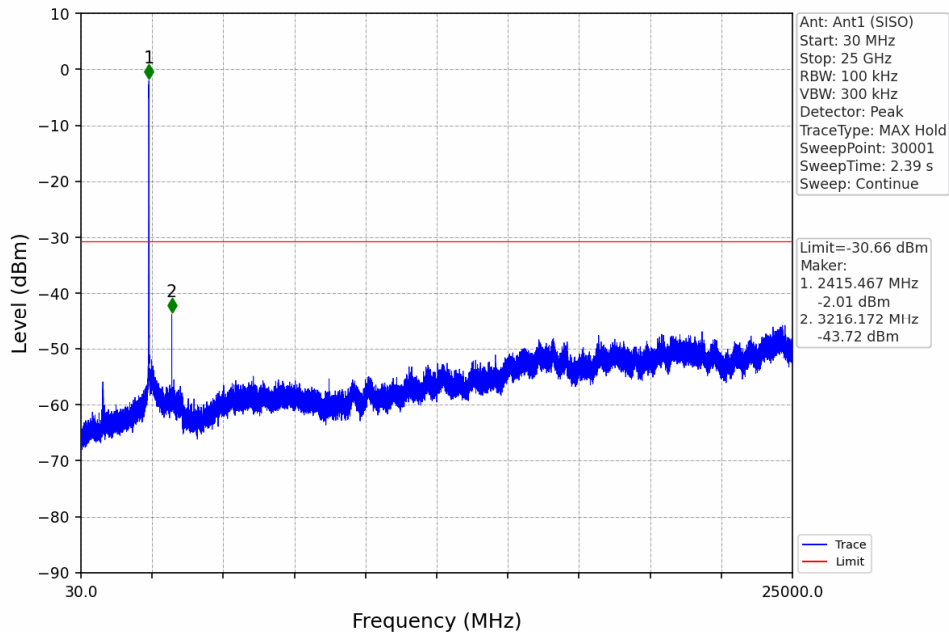


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



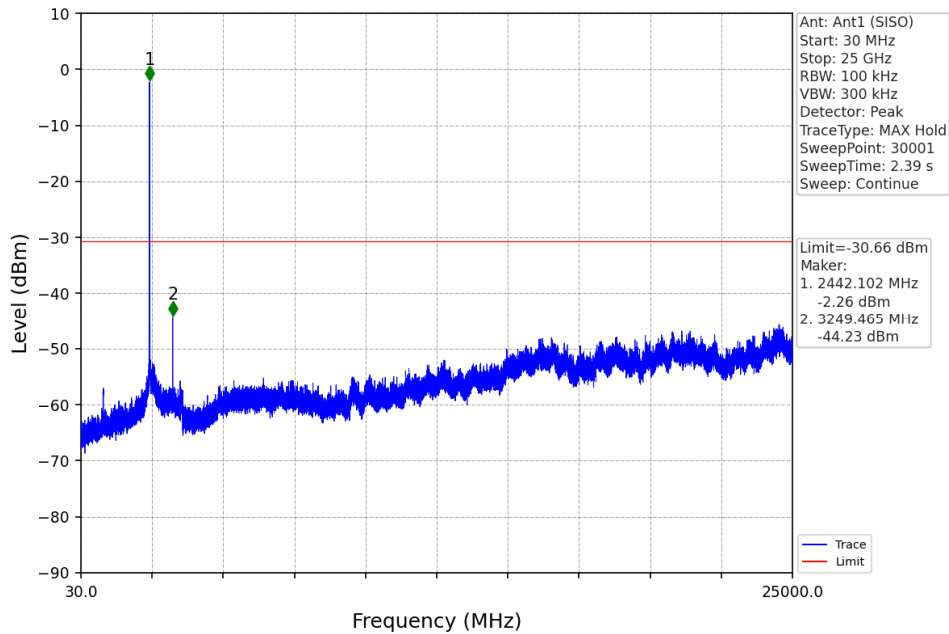
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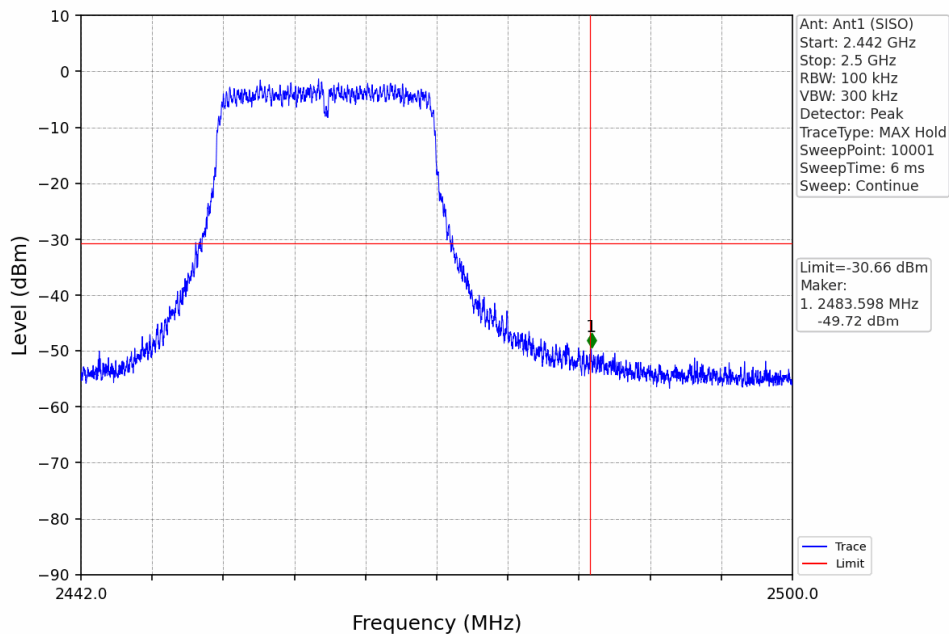
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

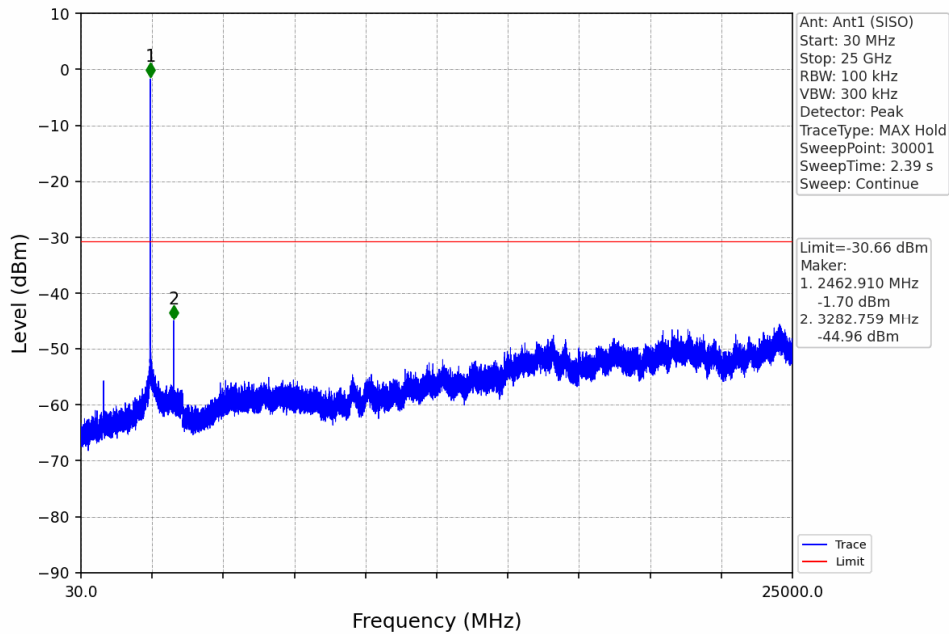


802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

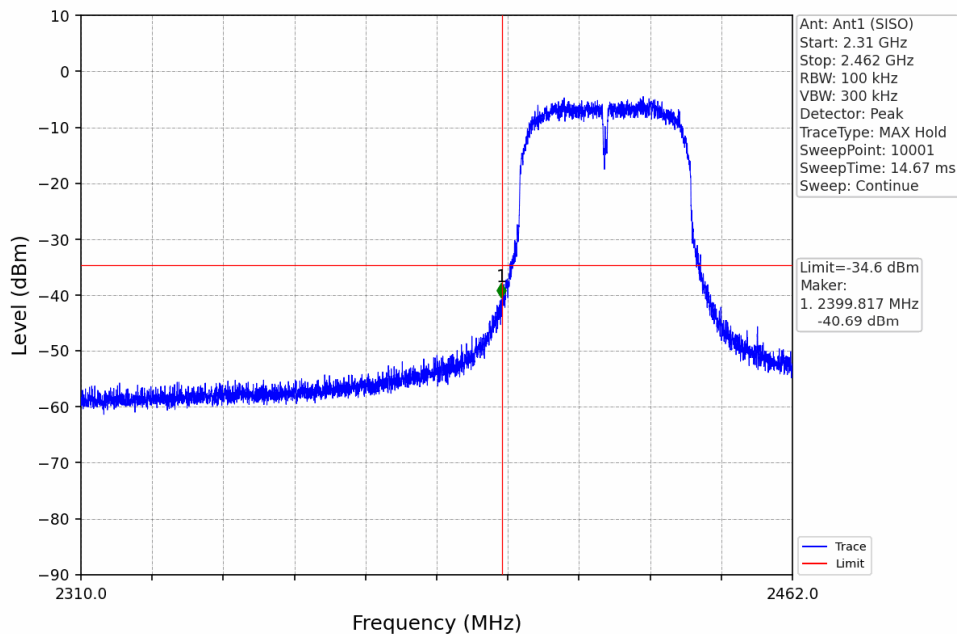


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

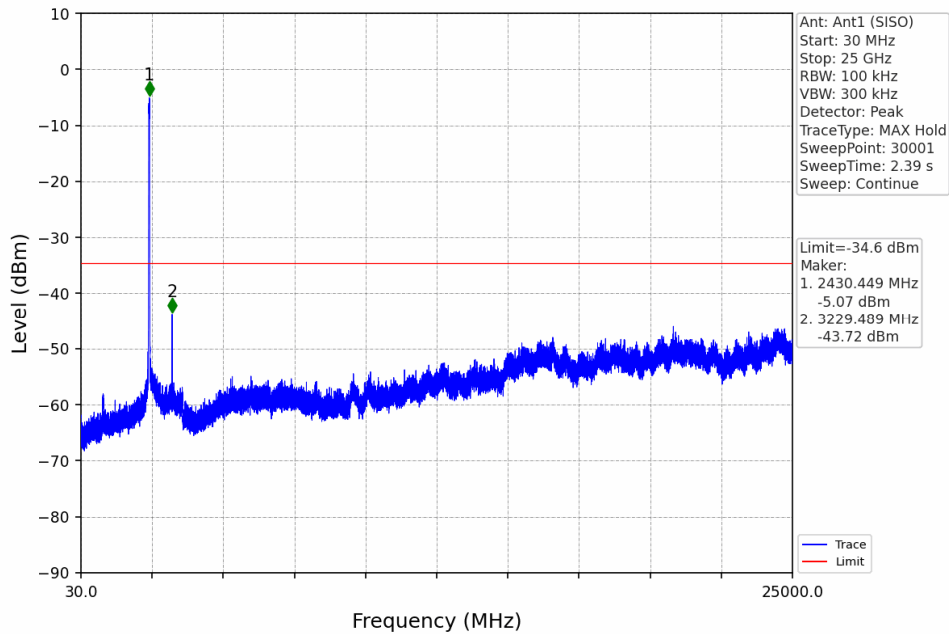


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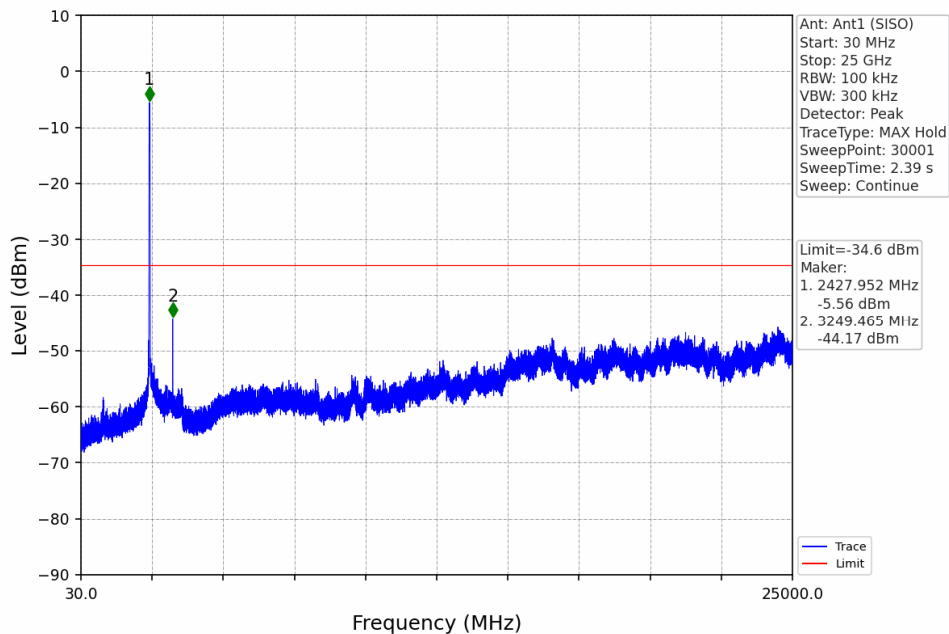


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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

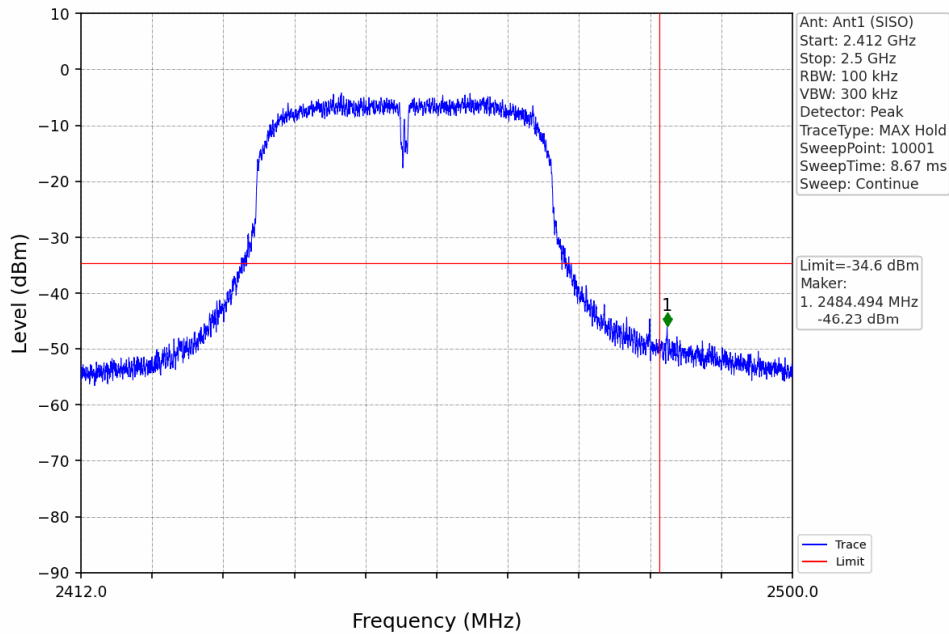


802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

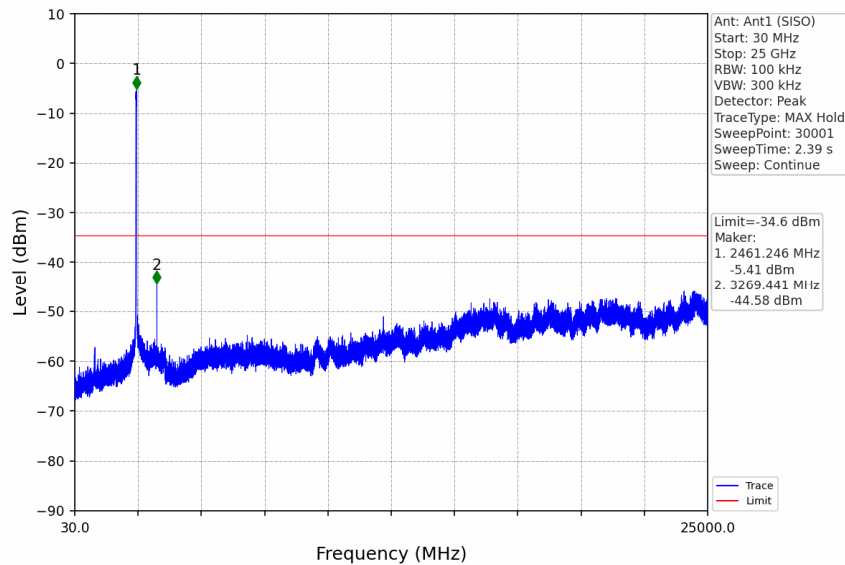


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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



- End of the Report -



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