



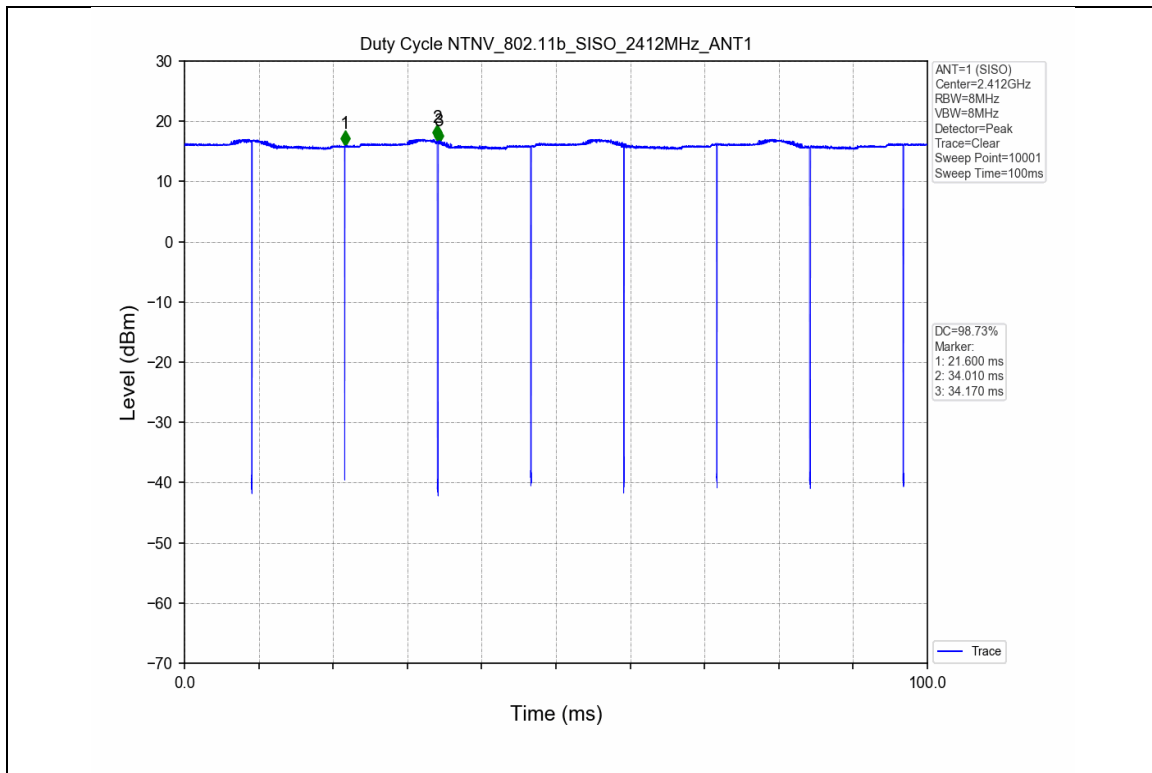
## Appendix A for SHEM210200138101

### 1. Duty Cycle

#### 1.1 Test Result

Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.410	12.570	98.73	0.06
	2437	SISO	1	12.420	12.530	99.12	0.04
	2462	SISO	1	12.410	12.580	98.65	0.06
802.11g	2412	SISO	1	2.035	2.290	88.86	0.51
	2437	SISO	1	2.035	2.274	89.49	0.48
	2462	SISO	1	2.039	2.294	88.88	0.51
802.11n(HT20)	2412	SISO	1	1.918	2.175	88.18	0.55
	2437	SISO	1	1.896	2.151	88.15	0.55
	2462	SISO	1	1.890	2.142	88.24	0.54
802.11n(HT40)	2422	SISO	1	100.000	100.000	100.00	0.00
	2437	SISO	1	100.000	100.000	100.00	0.00
	2452	SISO	1	100.000	100.000	100.00	0.00

#### 1.2 Test Graph

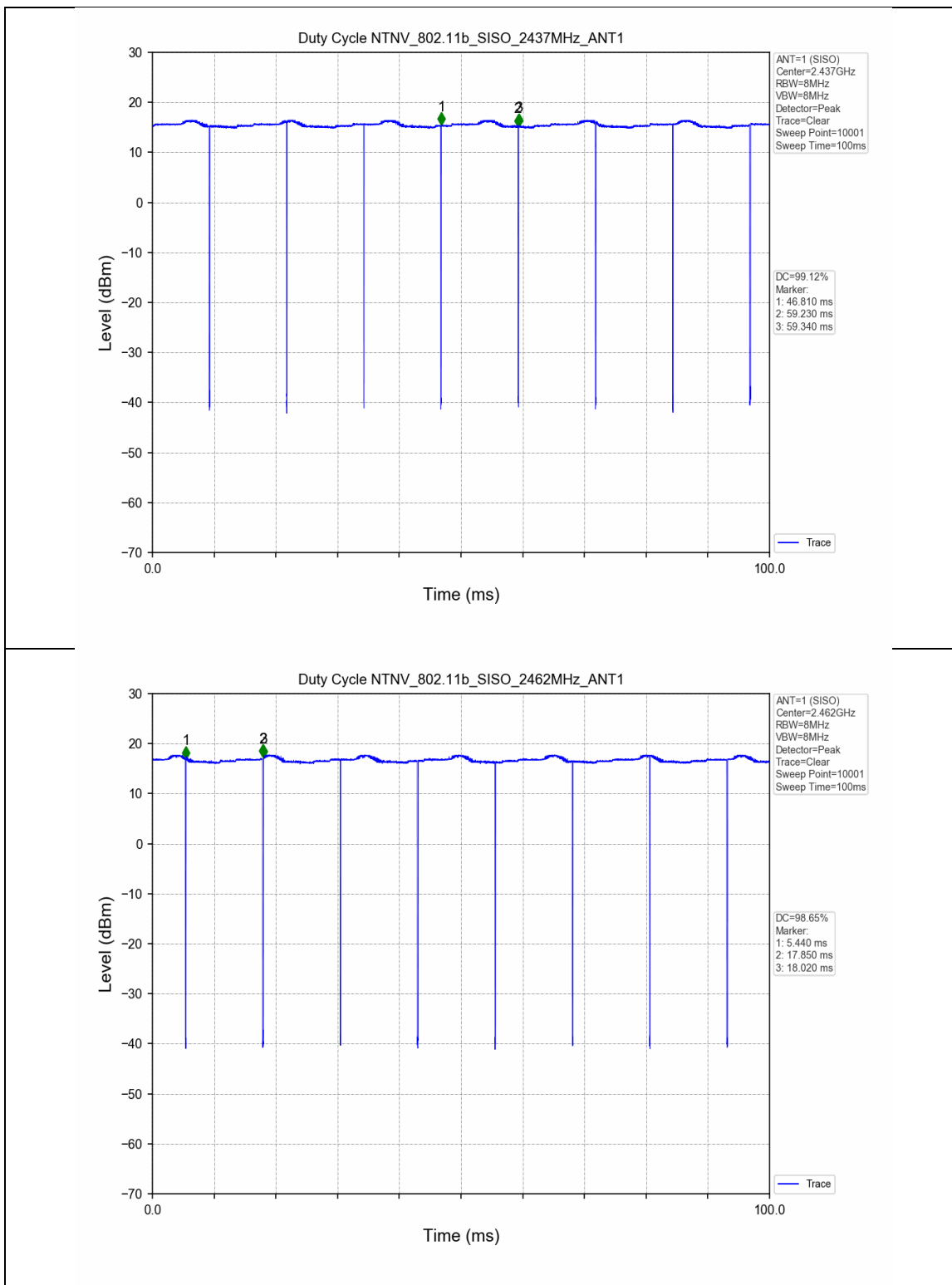


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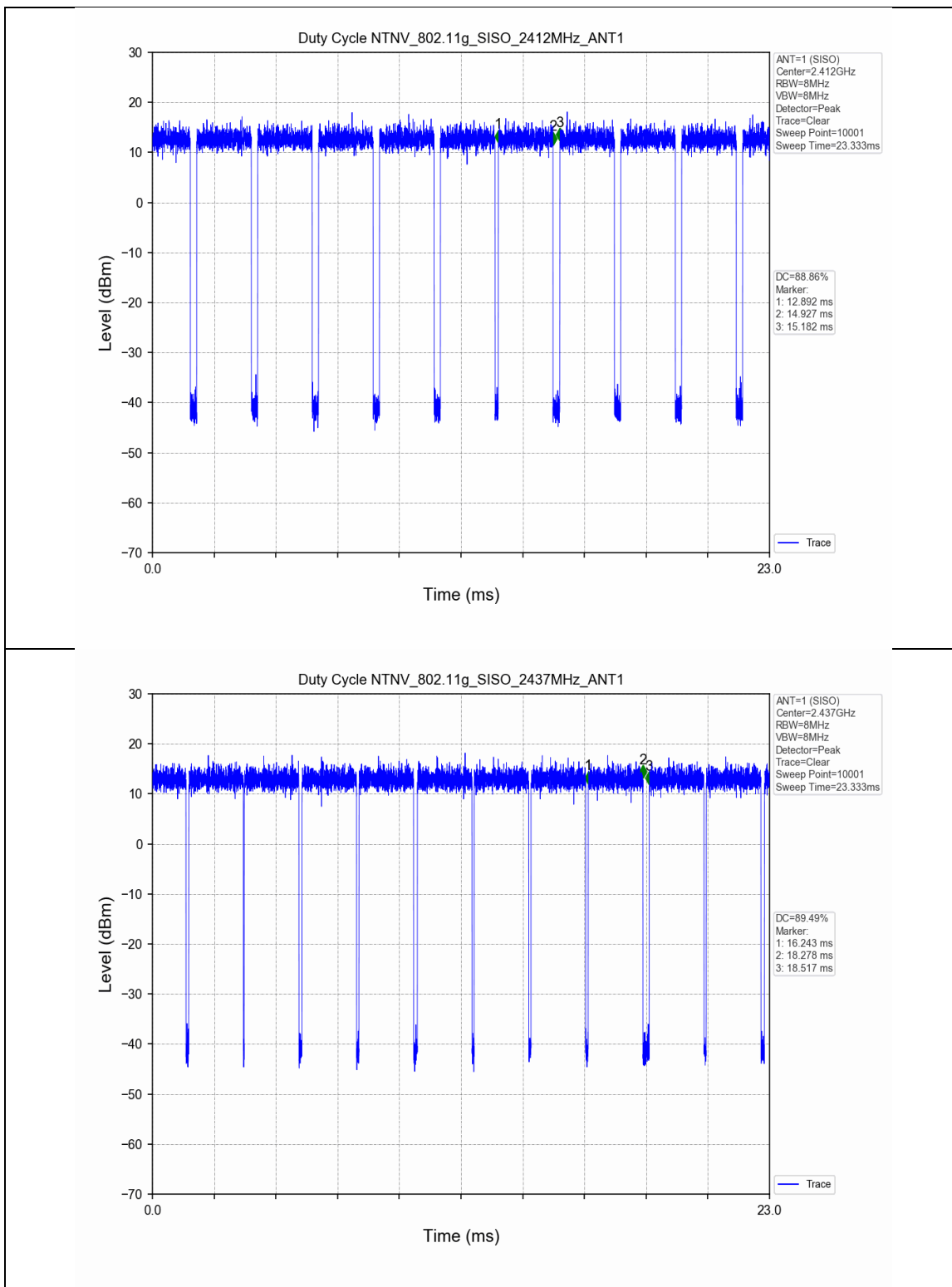


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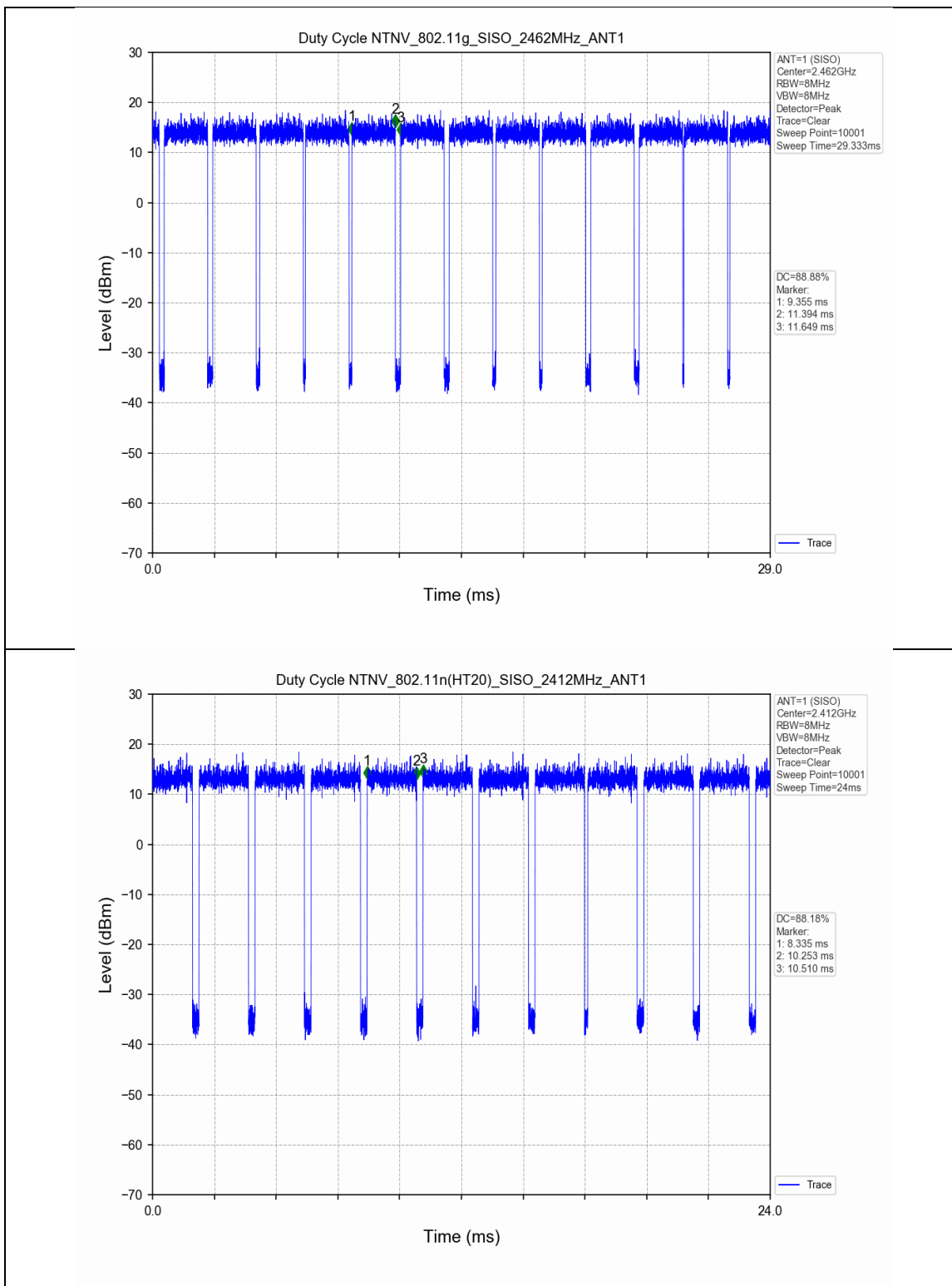


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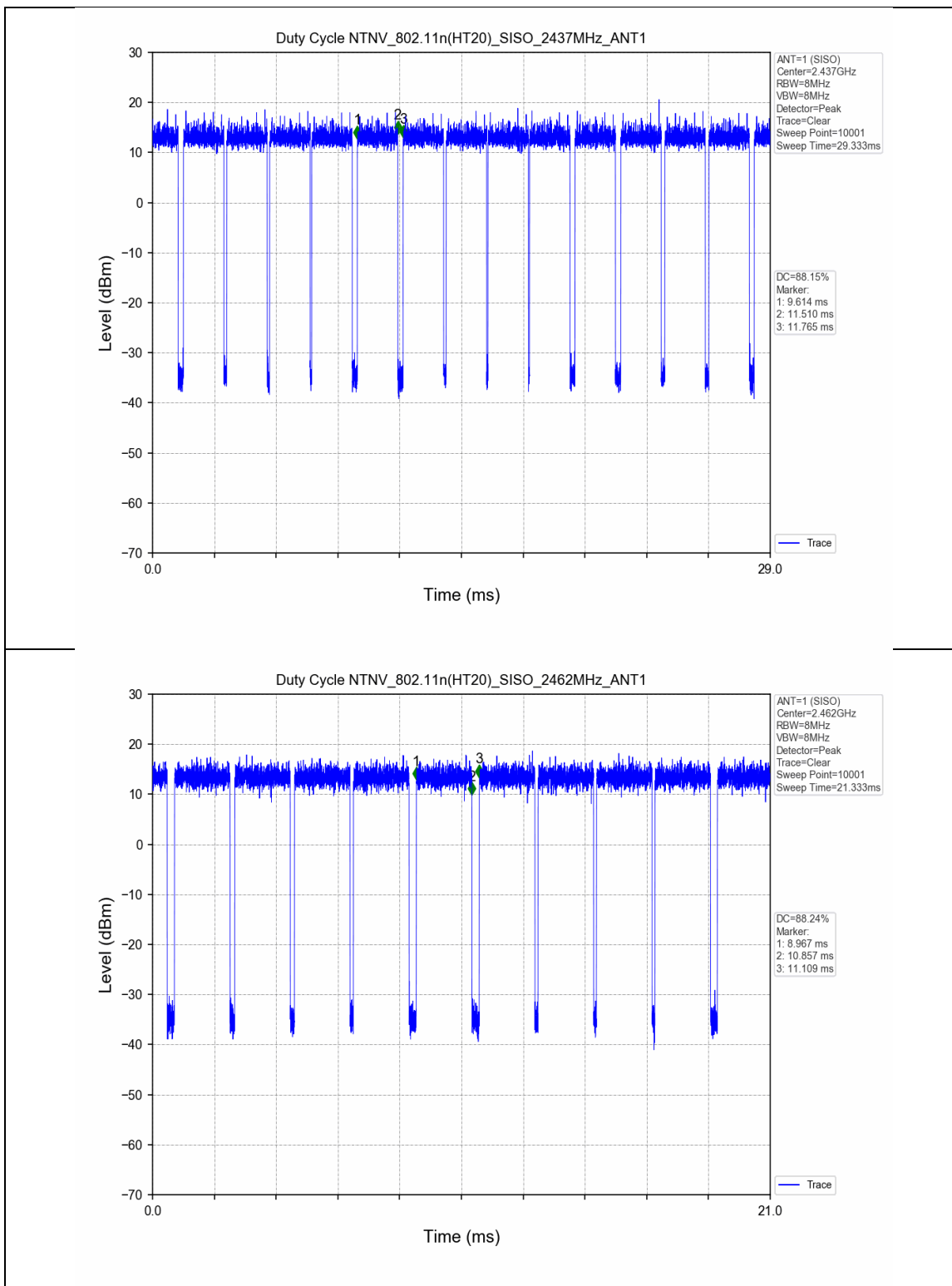
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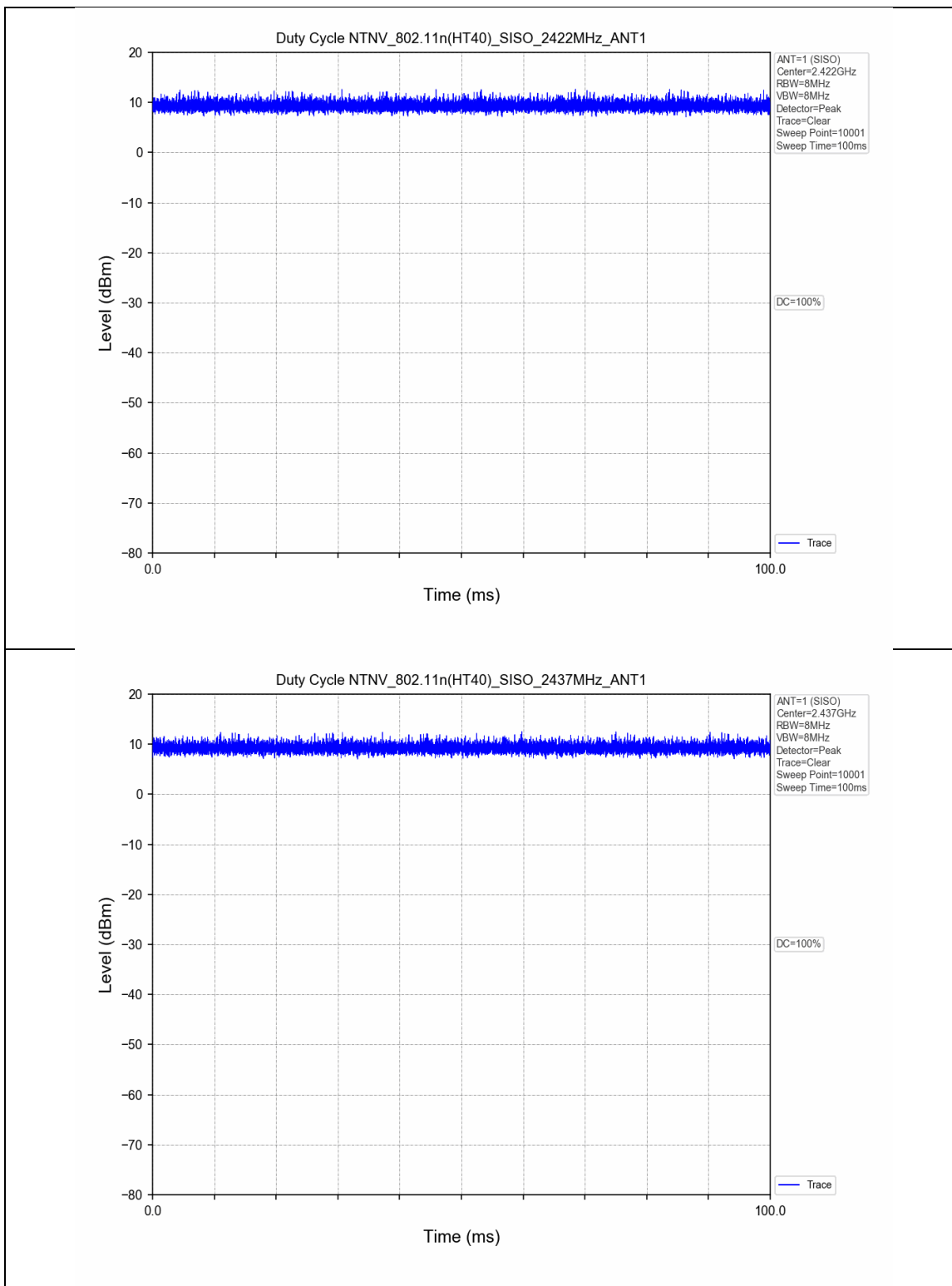
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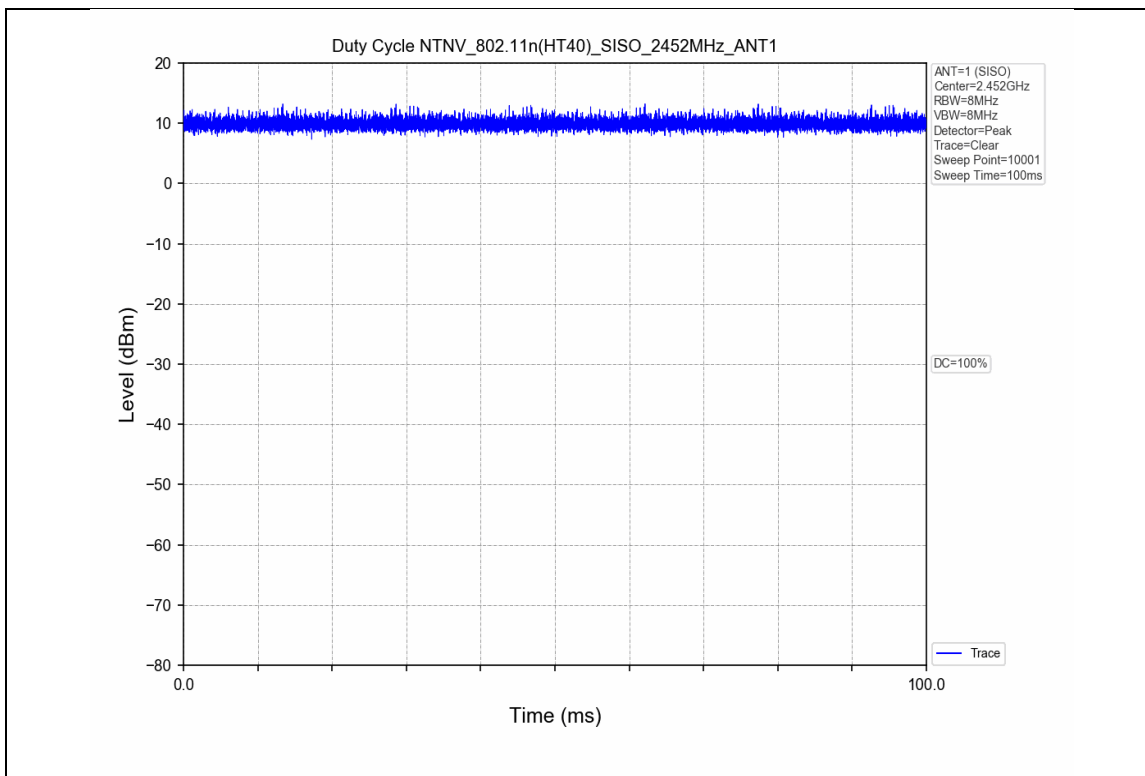
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## 2. Bandwidth

### 2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	8.583	≥0.5	PASS
	2437	SISO	1	8.562	≥0.5	PASS
	2462	SISO	1	8.570	≥0.5	PASS
802.11g	2412	SISO	1	16.372	≥0.5	PASS
	2437	SISO	1	16.385	≥0.5	PASS
	2462	SISO	1	16.393	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.313	≥0.5	PASS
	2437	SISO	1	17.313	≥0.5	PASS
	2462	SISO	1	17.562	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	36.576	≥0.5	PASS
	2437	SISO	1	36.554	≥0.5	PASS
	2452	SISO	1	36.521	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	13.460	Only for Report Use
	2437	SISO	1	13.392	Only for Report Use

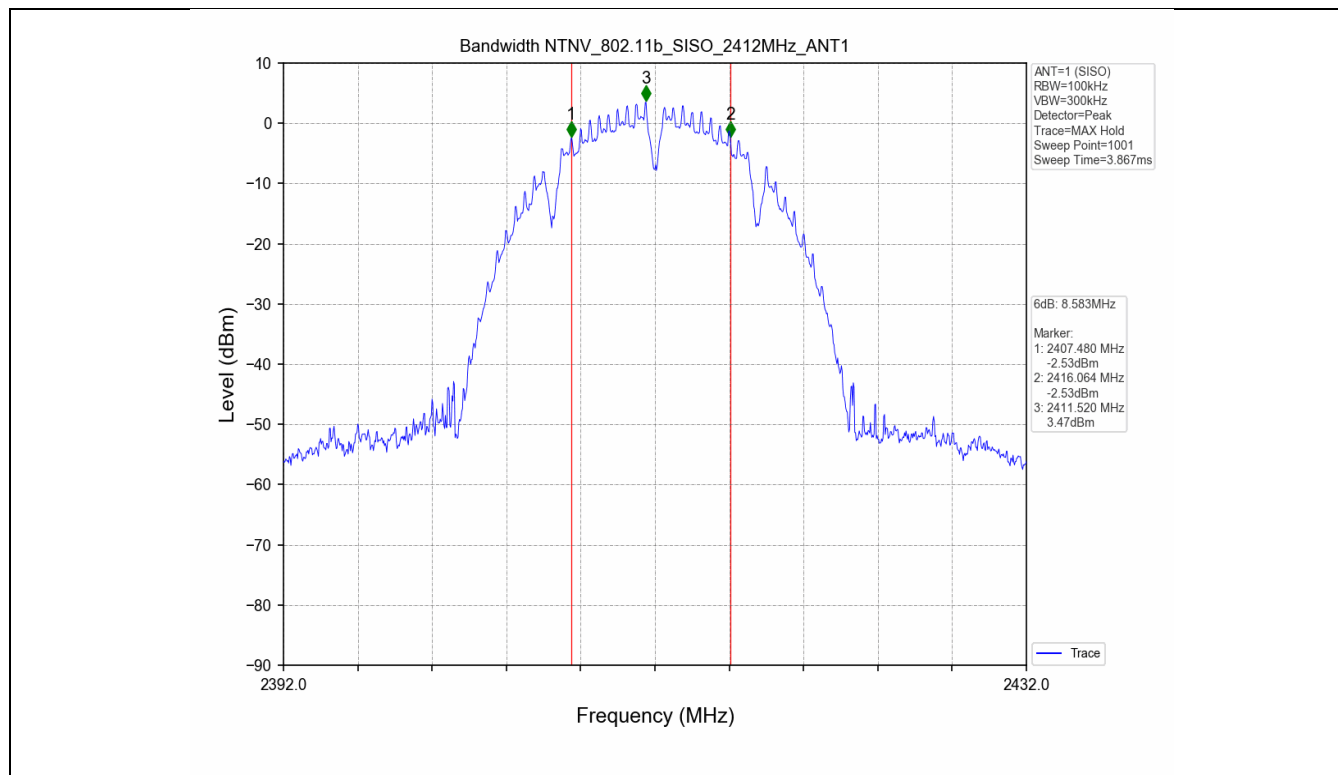


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	2462	SISO	1	13.314	Only for Report Use
802.11g	2412	SISO	1	16.767	Only for Report Use
	2437	SISO	1	16.807	Only for Report Use
	2462	SISO	1	16.827	Only for Report Use
	2412	SISO	1	17.915	Only for Report Use
802.11n(HT20)	2437	SISO	1	17.917	Only for Report Use
	2462	SISO	1	17.771	Only for Report Use
	2422	SISO	1	36.822	Only for Report Use
802.11n(HT40)	2437	SISO	1	36.726	Only for Report Use
	2452	SISO	1	36.660	Only for Report Use

## 2.2 Test Graph - 6dB Bandwidth



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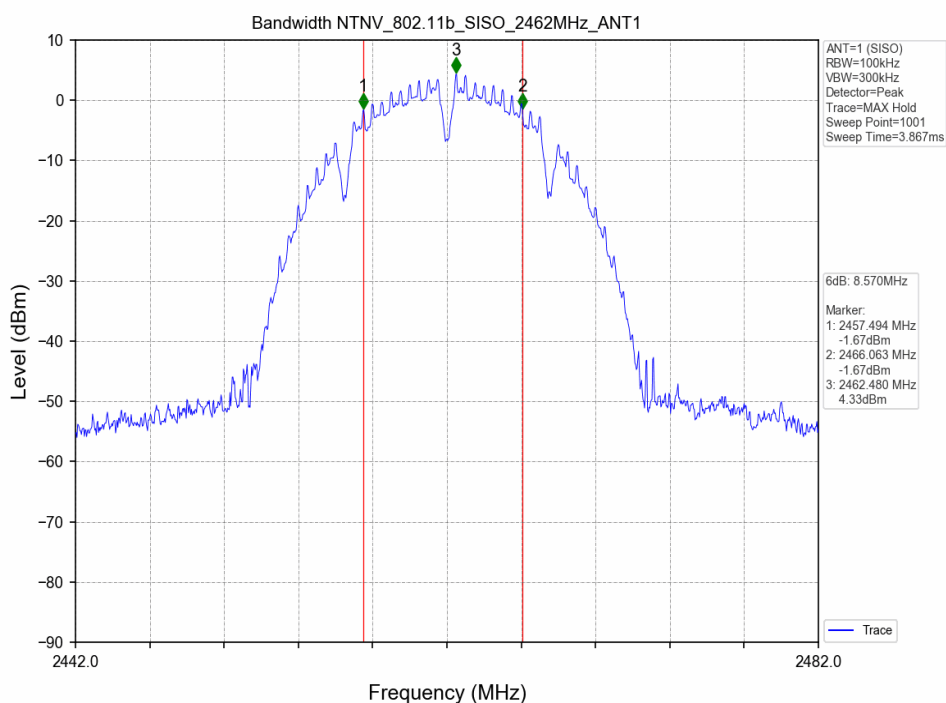
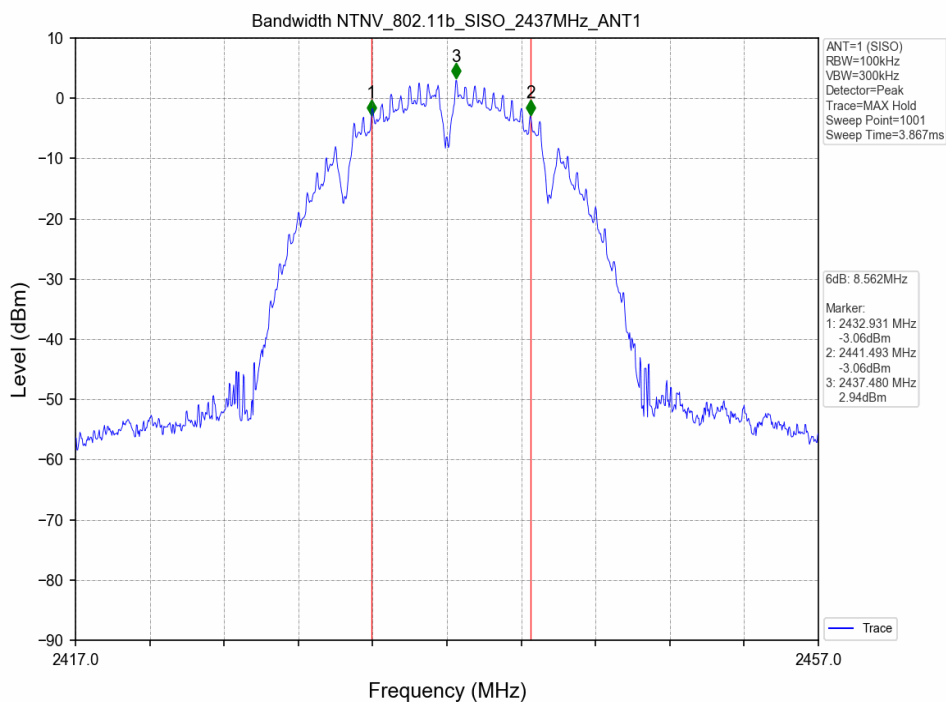
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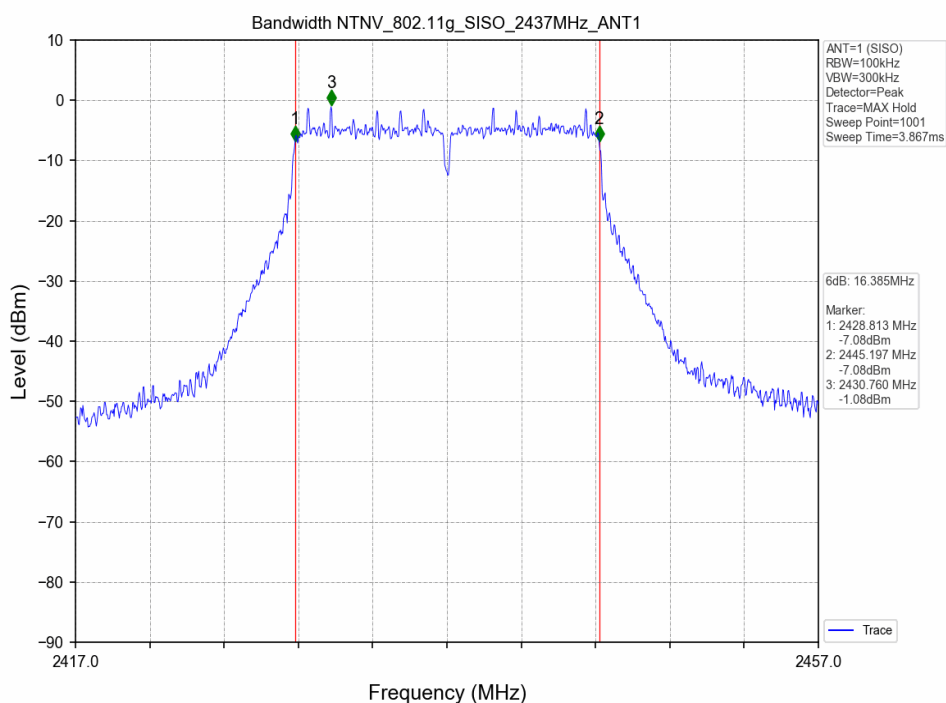
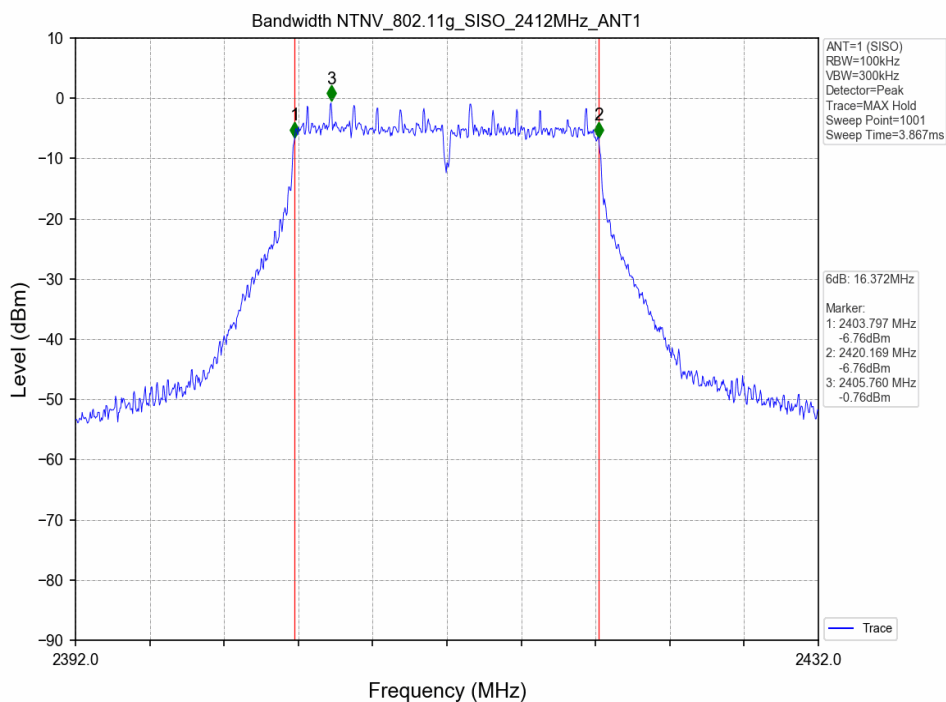
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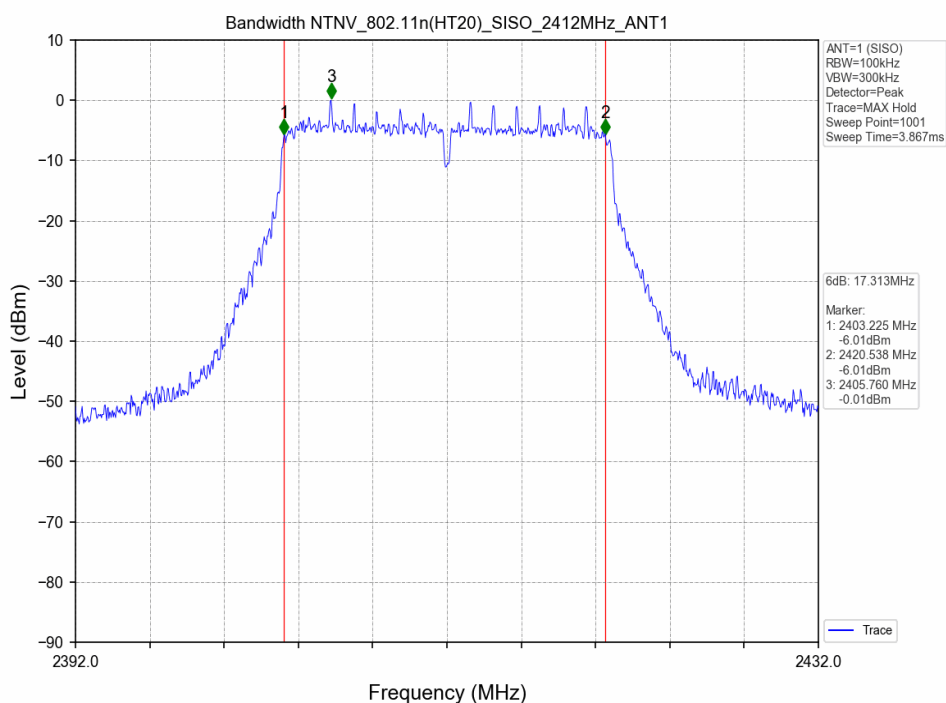
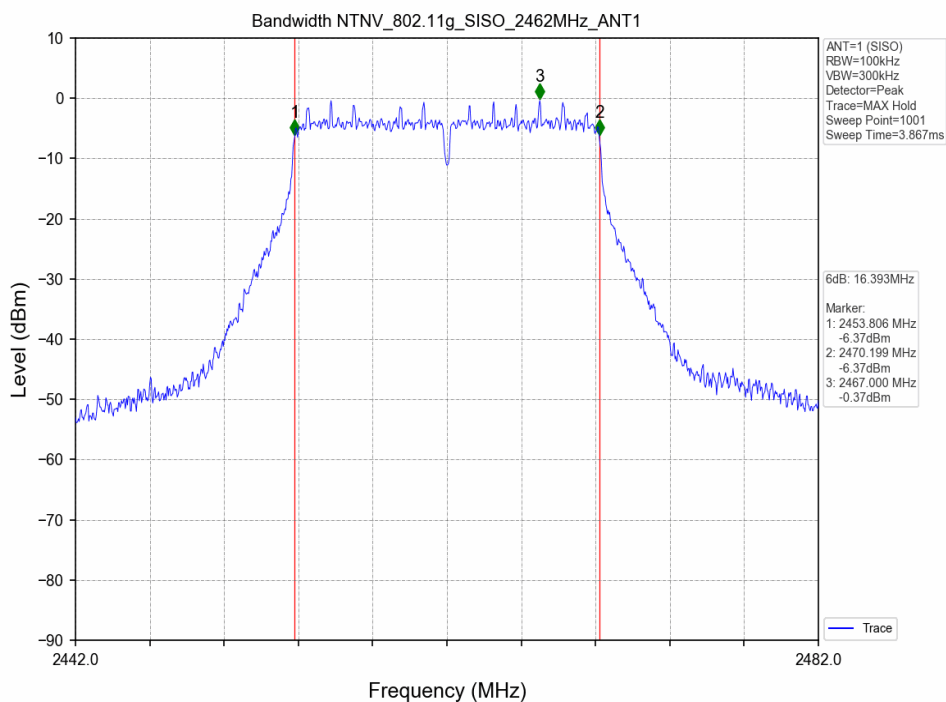
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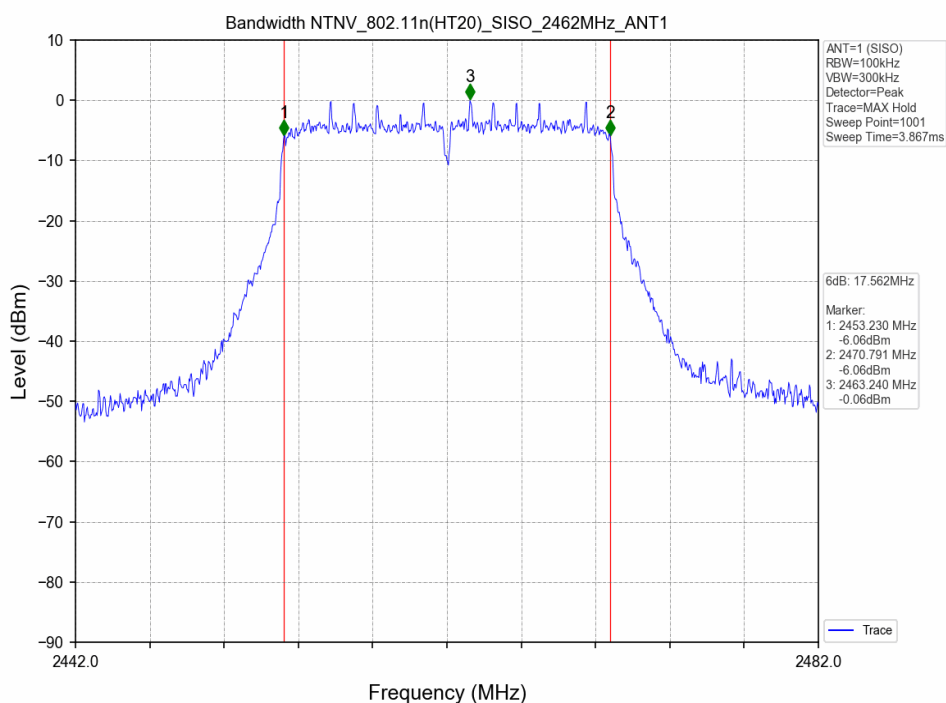
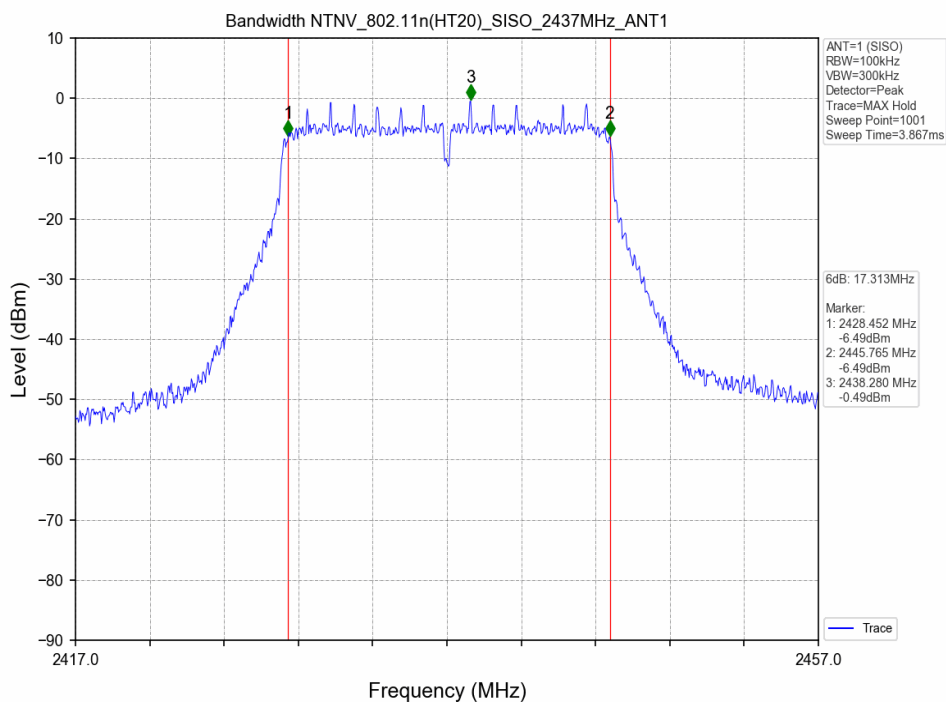
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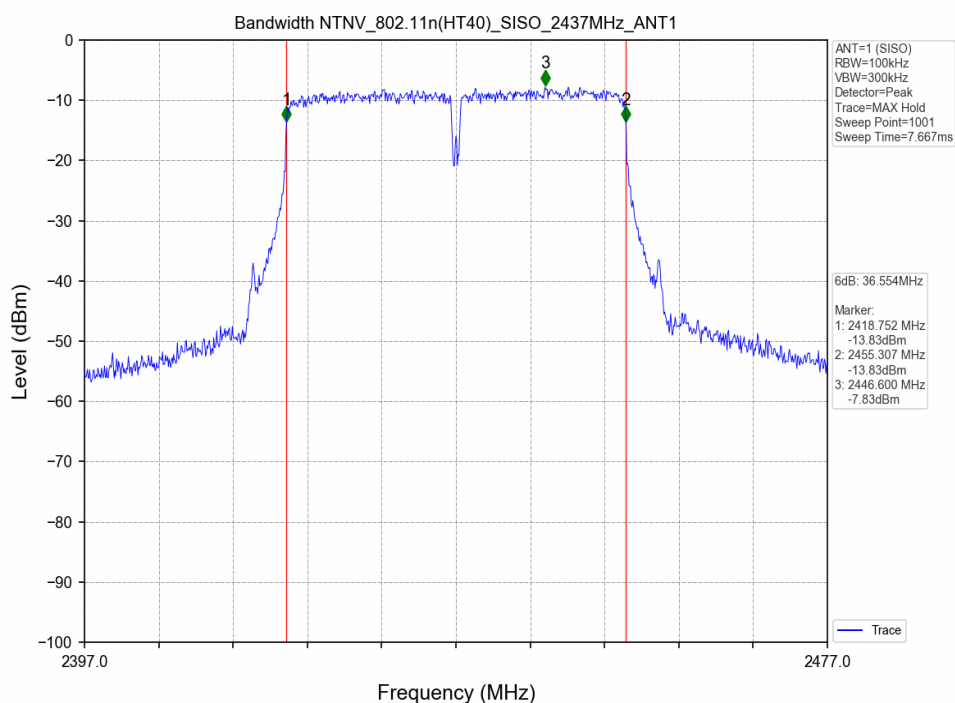
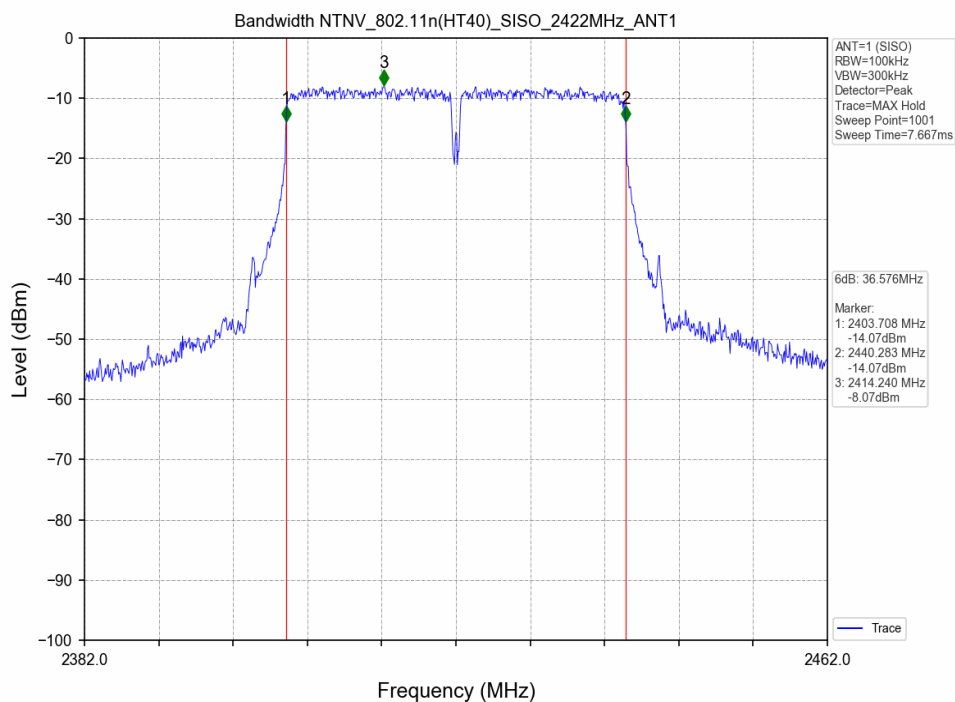
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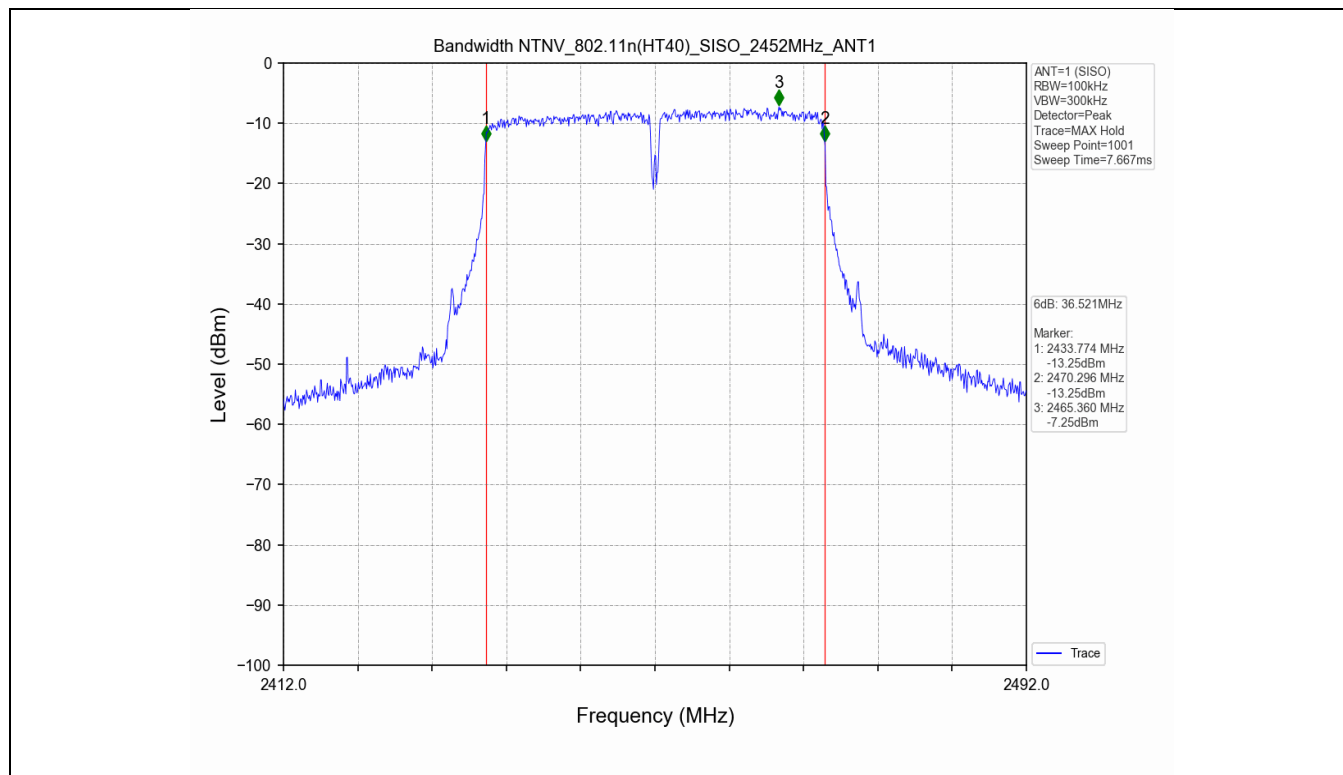
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2.3 Test Graph - 99% Occupied Bandwidth



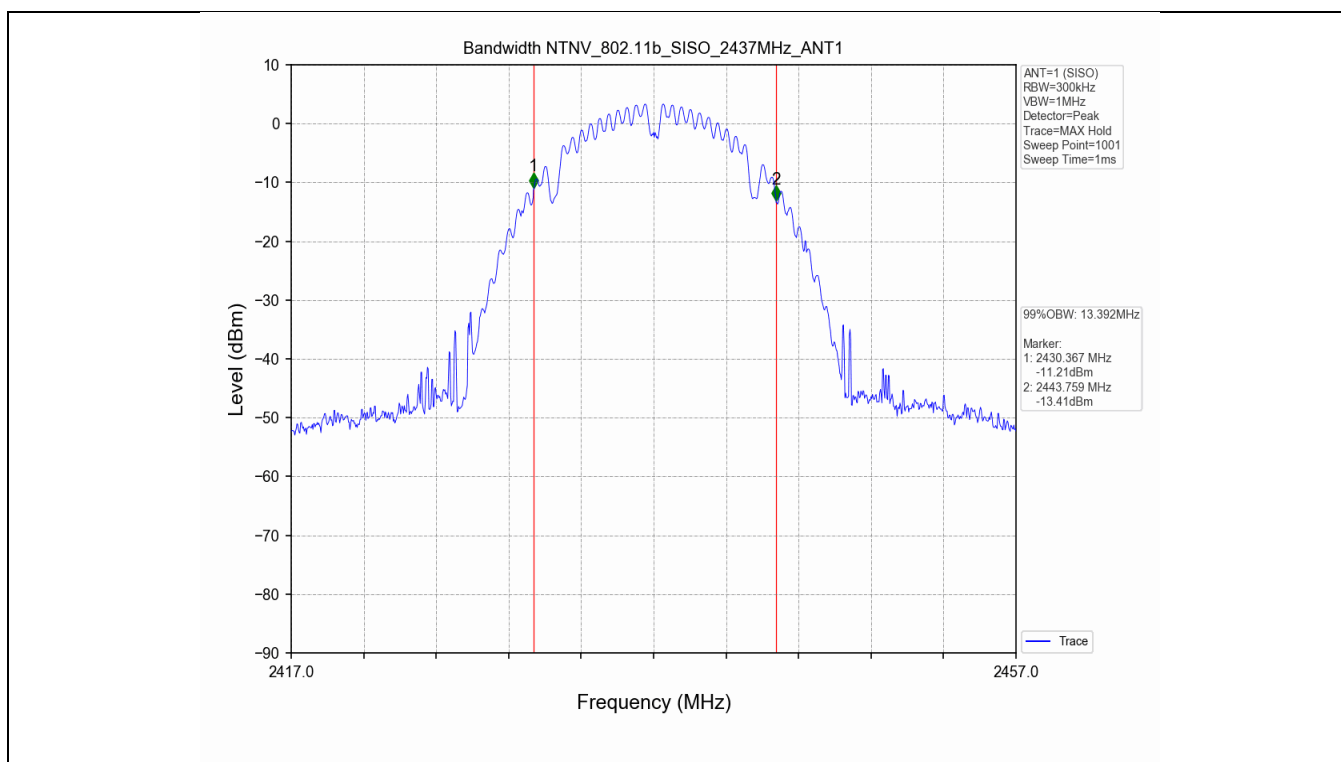
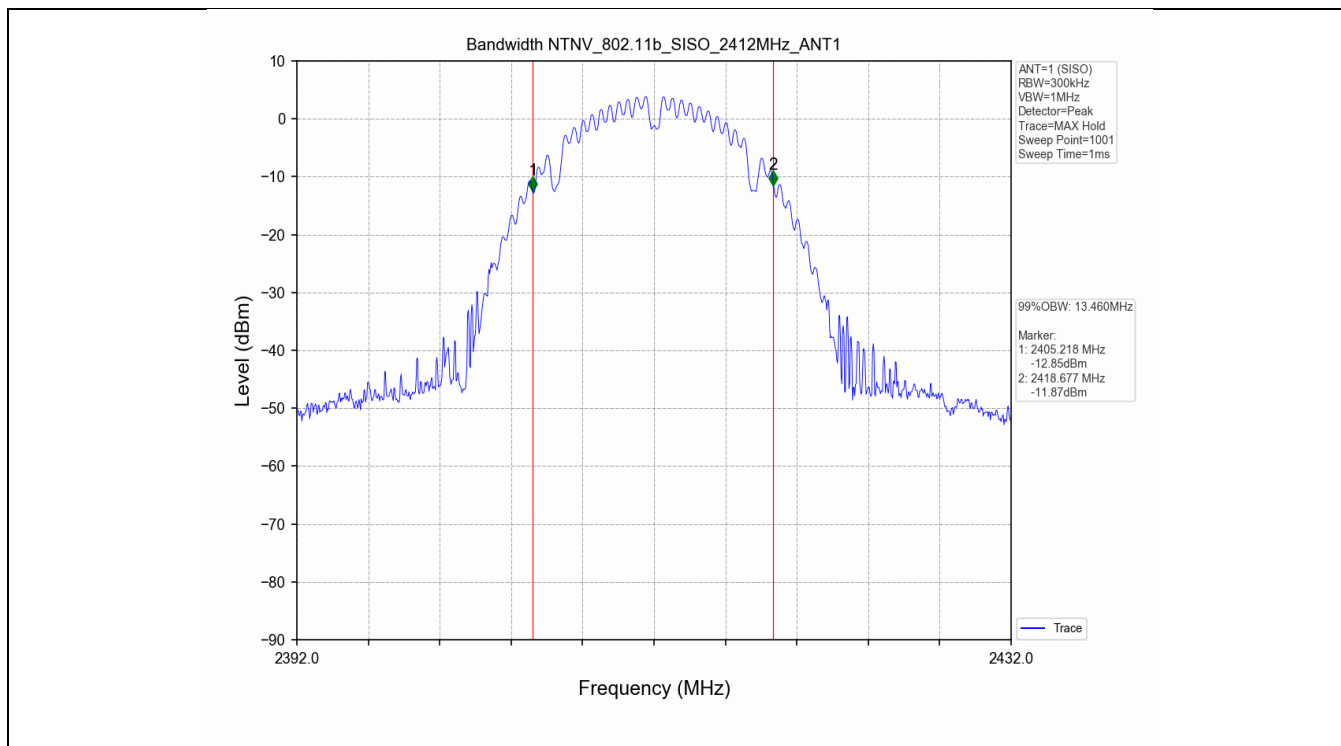
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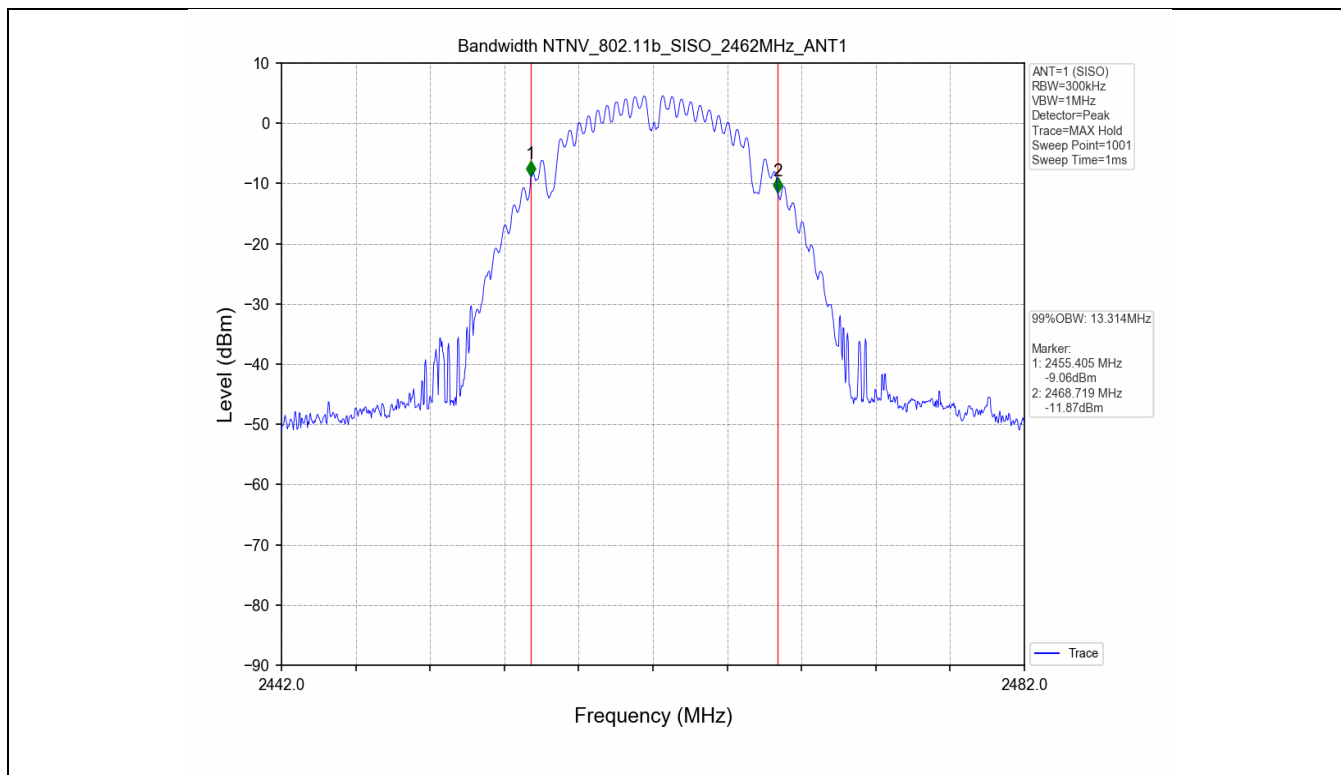
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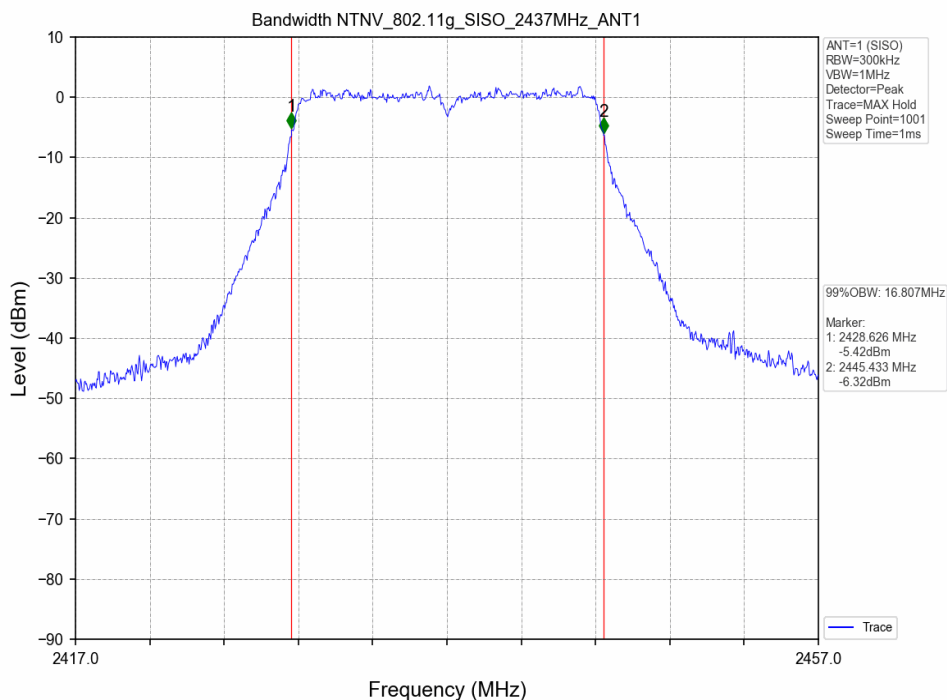
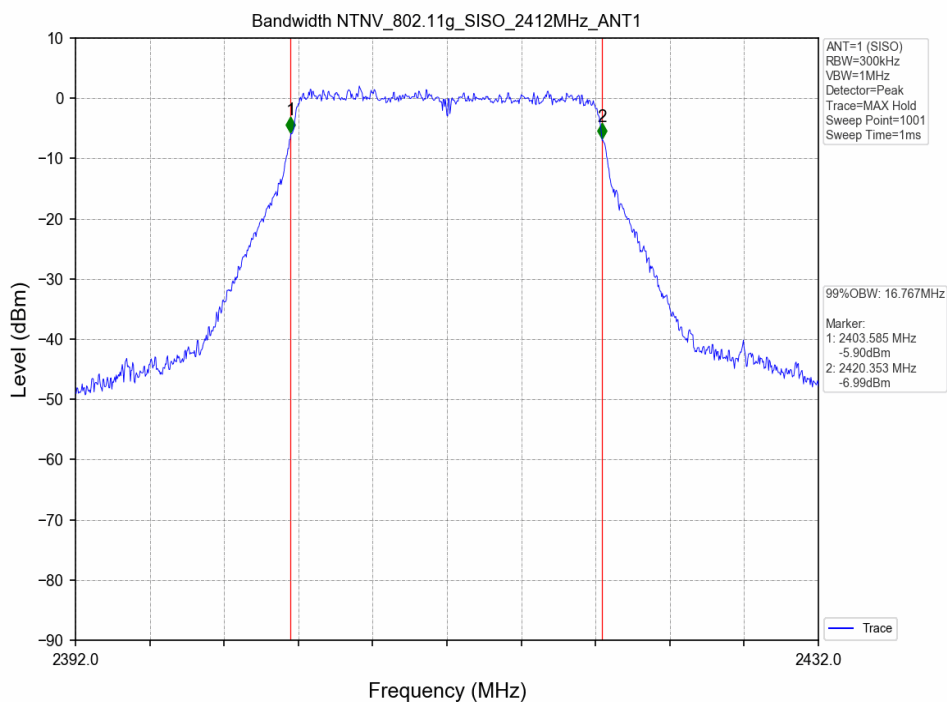
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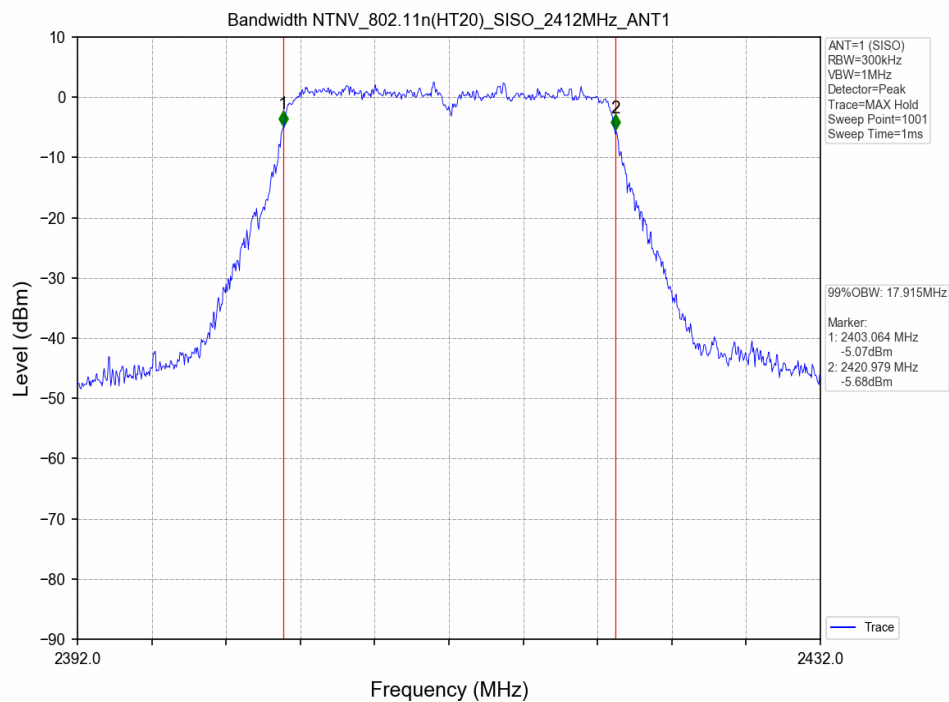
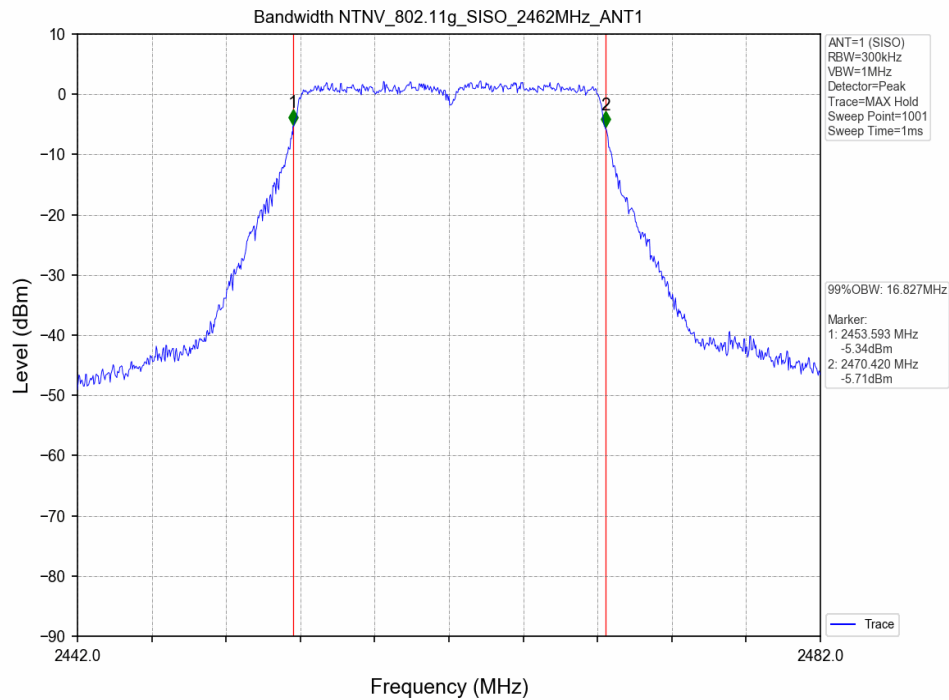
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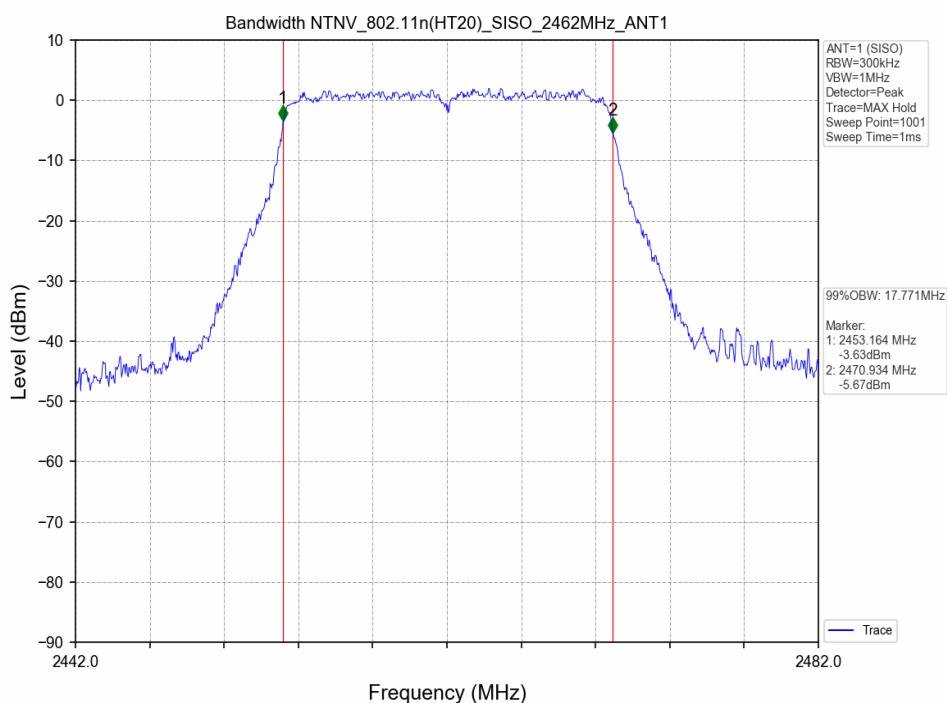
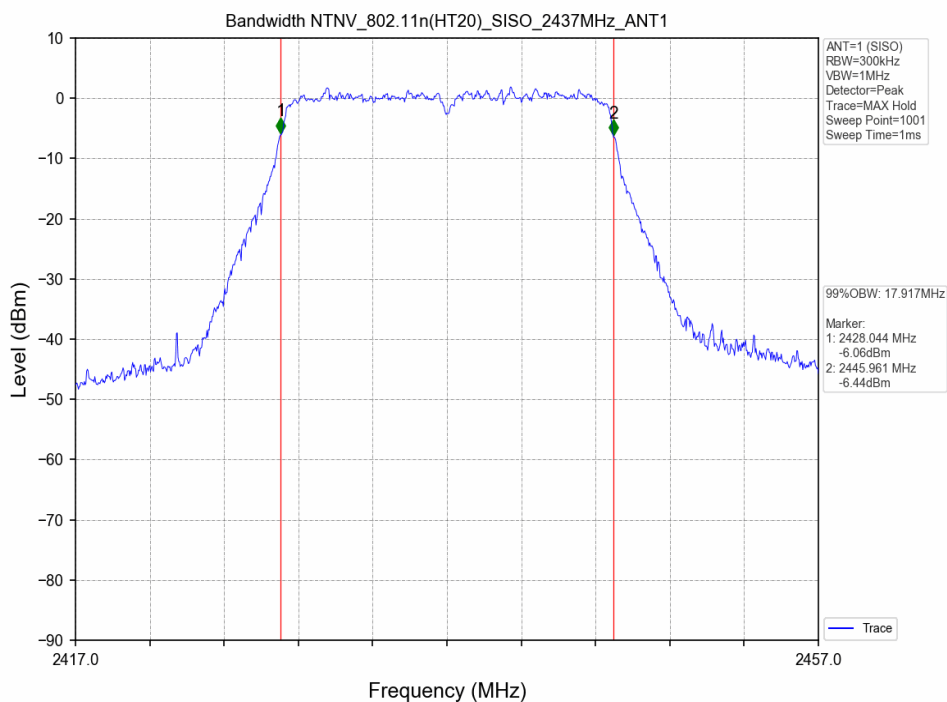
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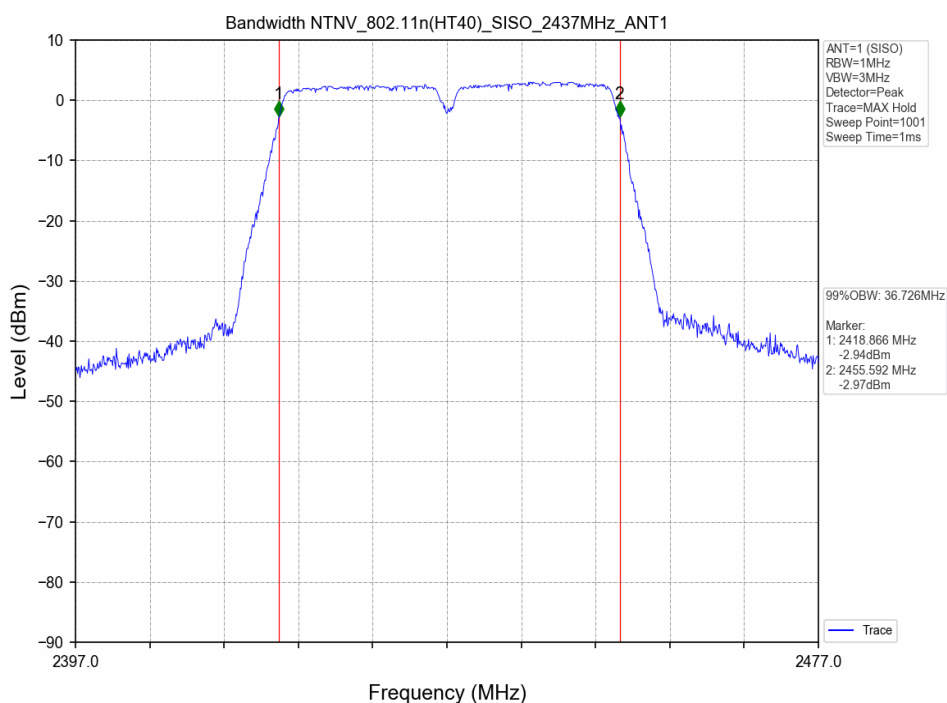
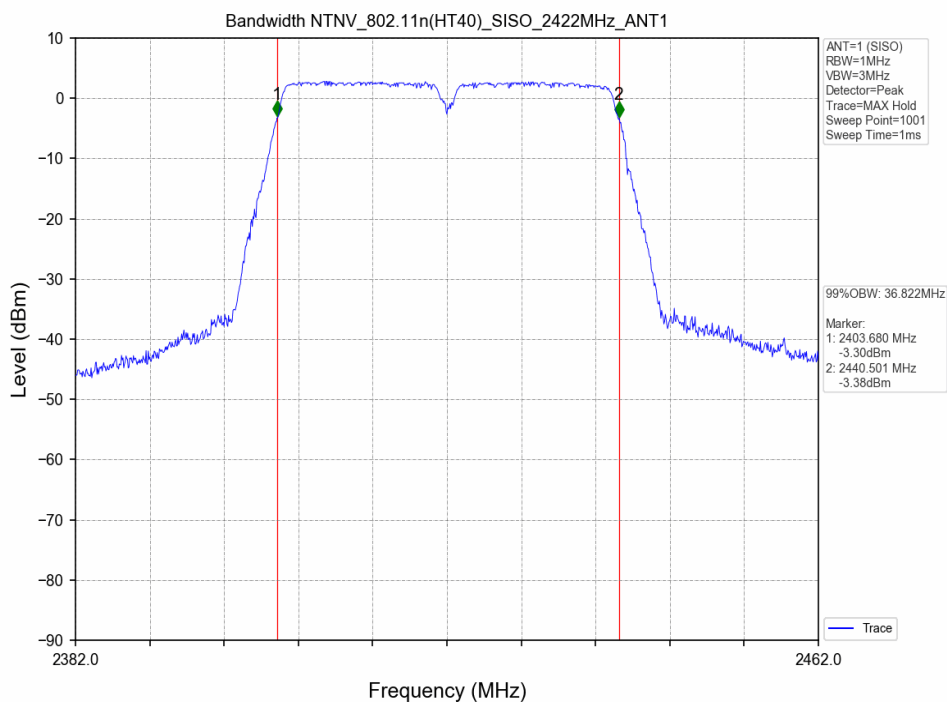
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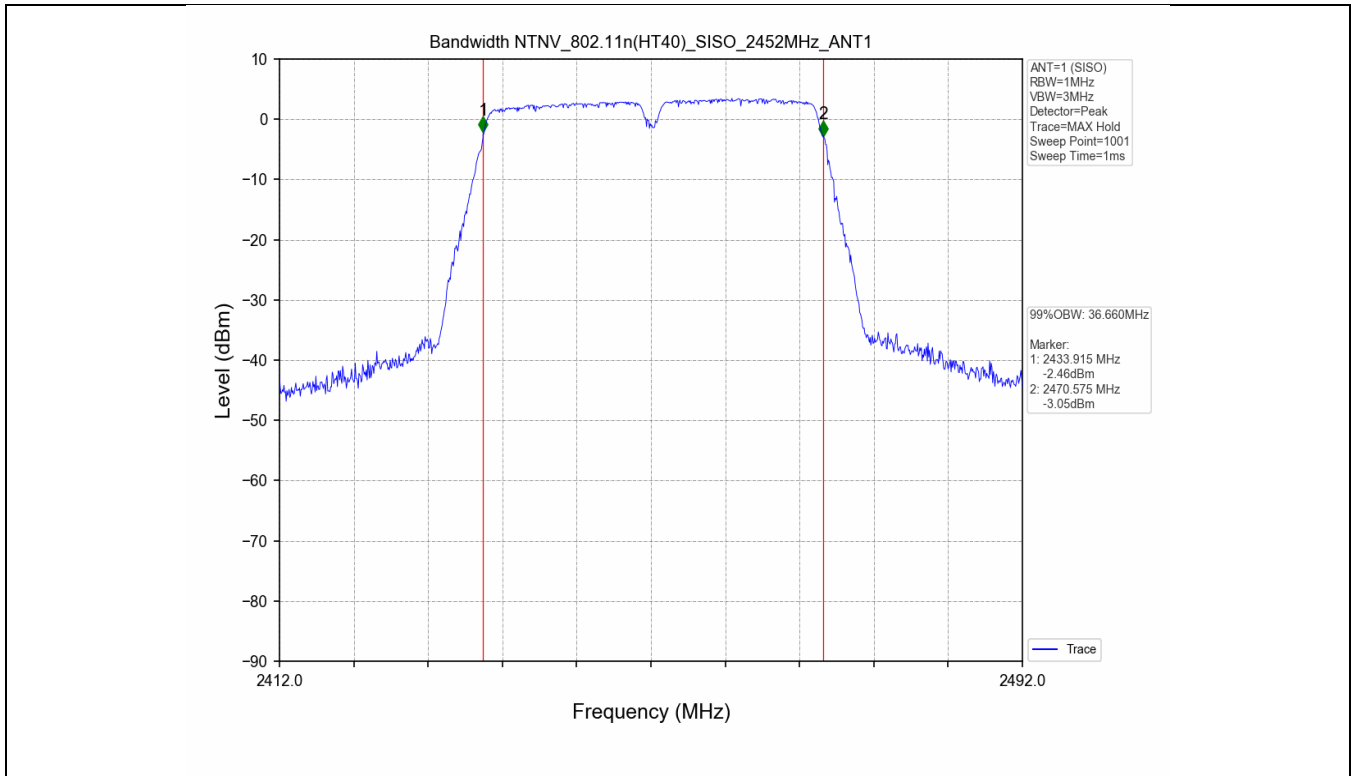
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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	14.41	30	PASS
	2437	SISO	13.94	30	PASS
	2462	SISO	15.16	30	PASS
802.11g	2412	SISO	17.99	30	PASS
	2437	SISO	18.13	30	PASS
	2462	SISO	19.04	30	PASS
802.11n(HT20)	2412	SISO	18.60	30	PASS
	2437	SISO	18.25	30	PASS
	2462	SISO	18.95	30	PASS
802.11n(HT40)	2422	SISO	17.38	30	PASS
	2437	SISO	17.34	30	PASS
	2452	SISO	17.71	30	PASS

#### 3.2 Test Graph



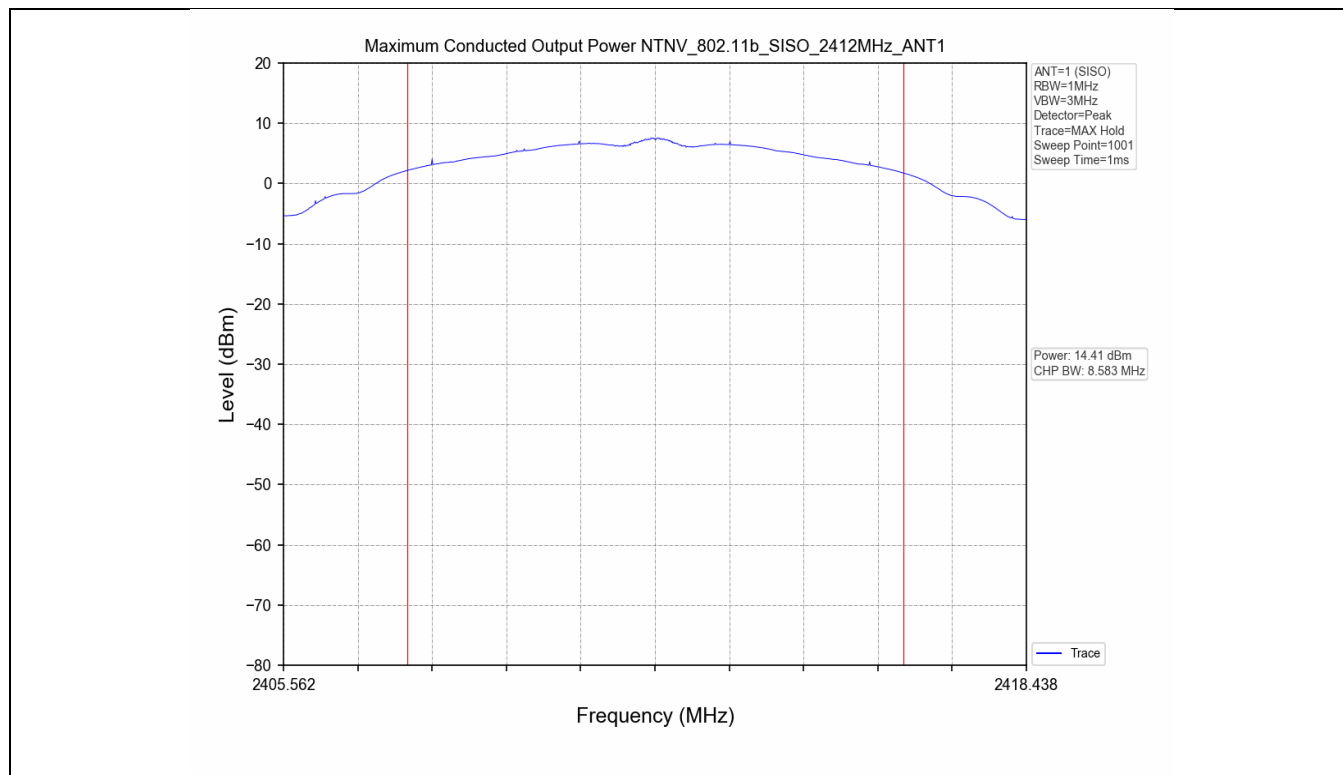
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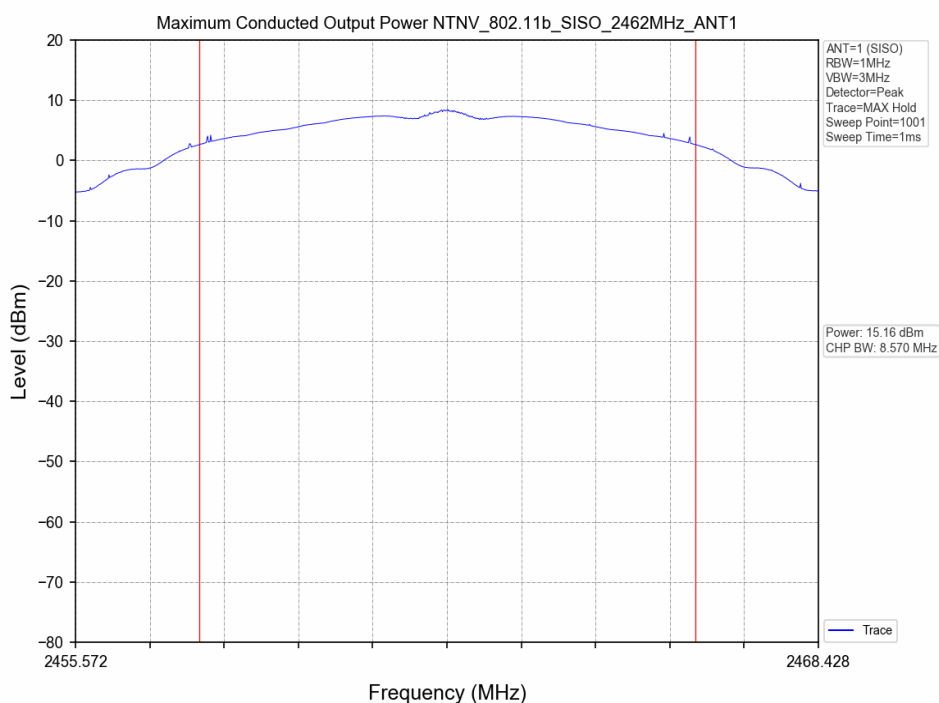
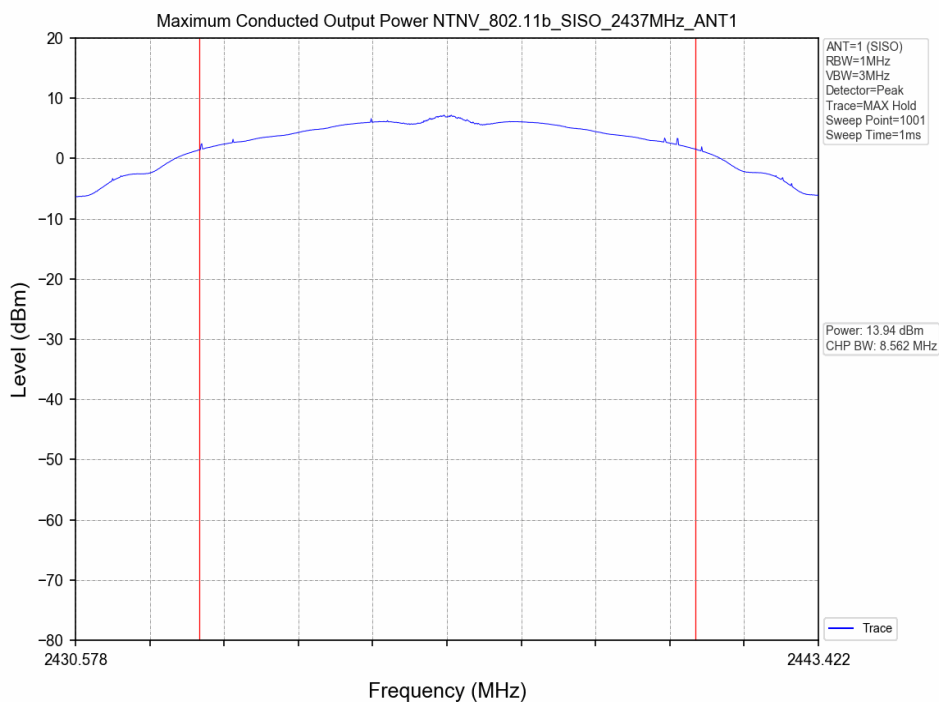
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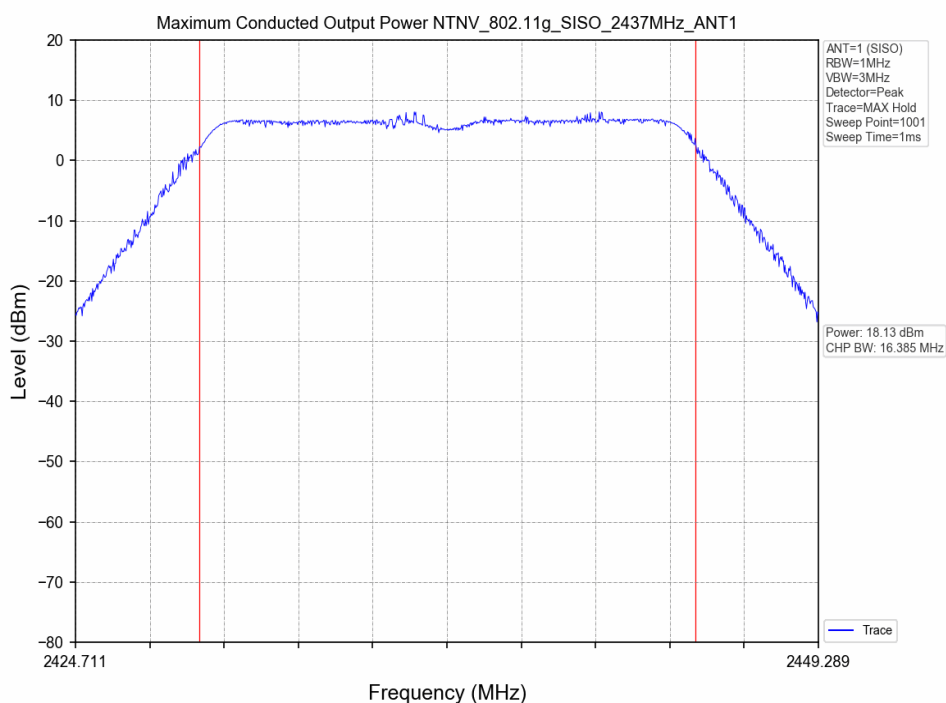
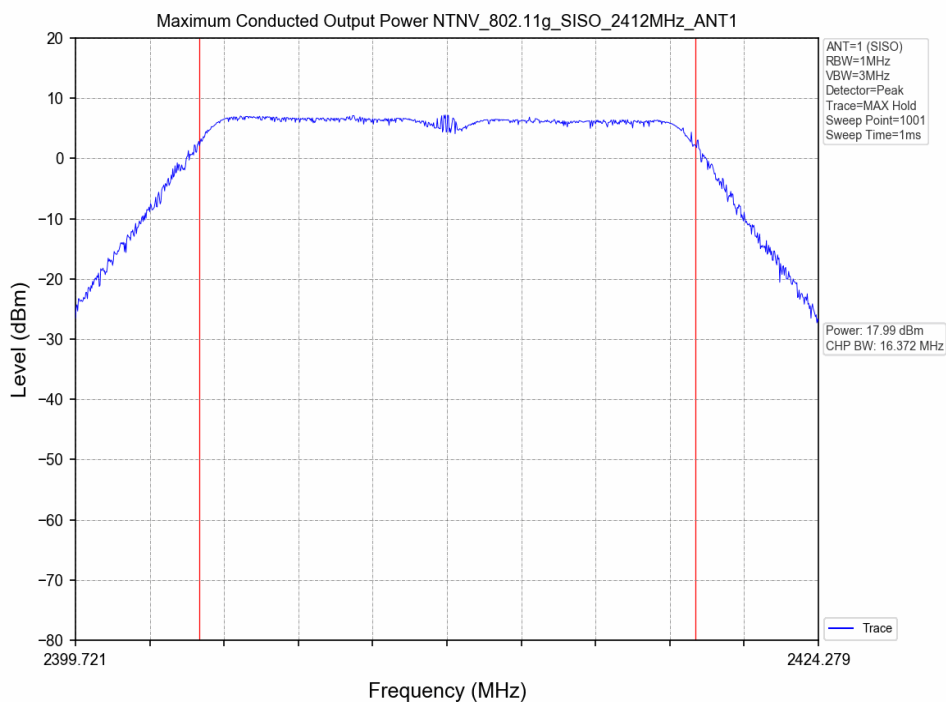
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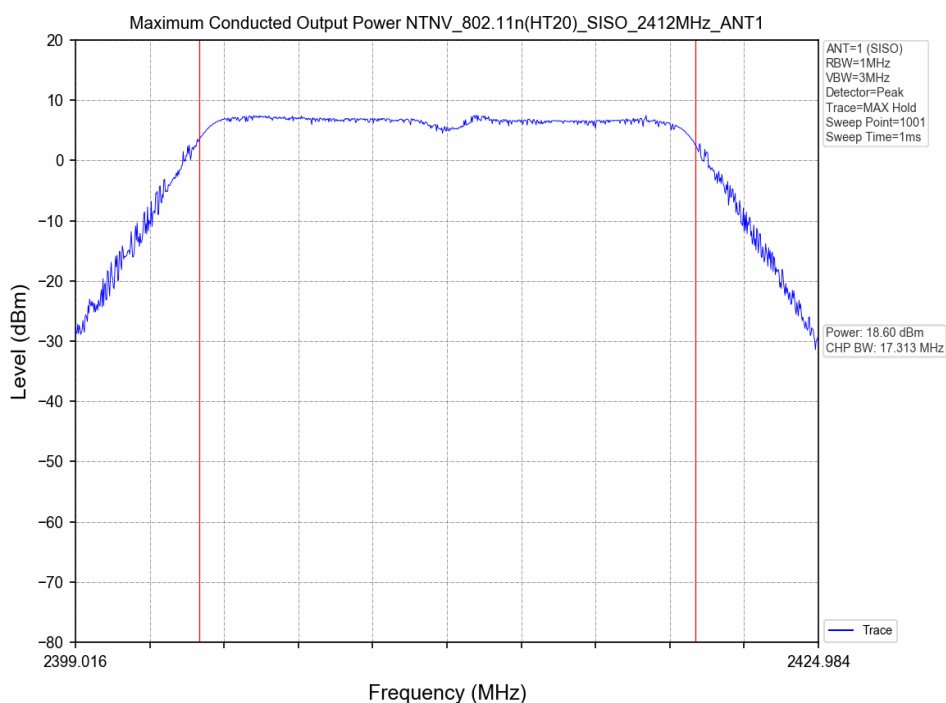
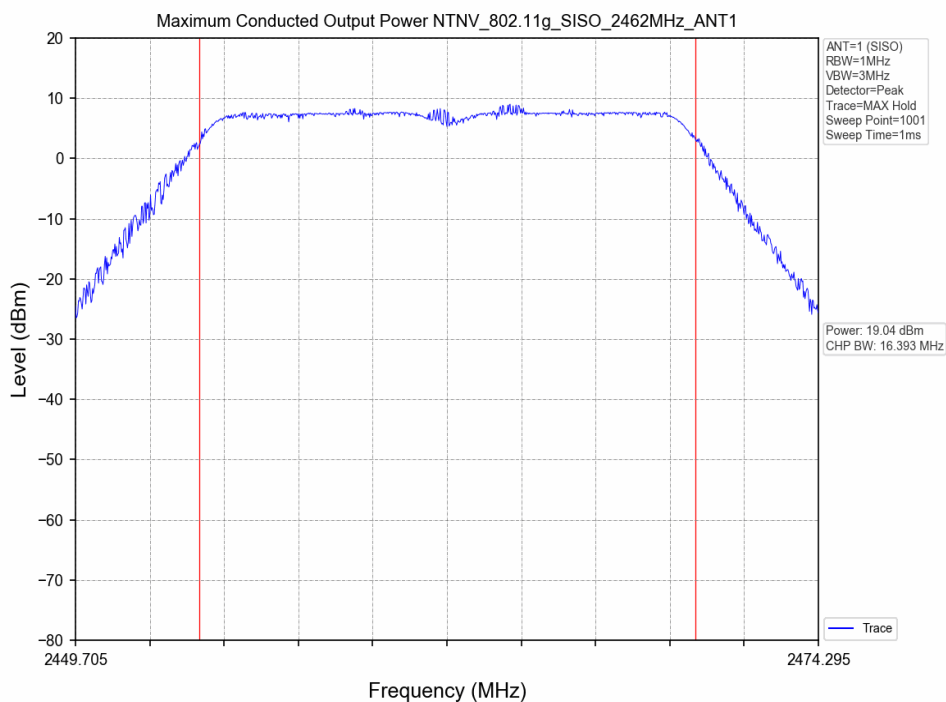
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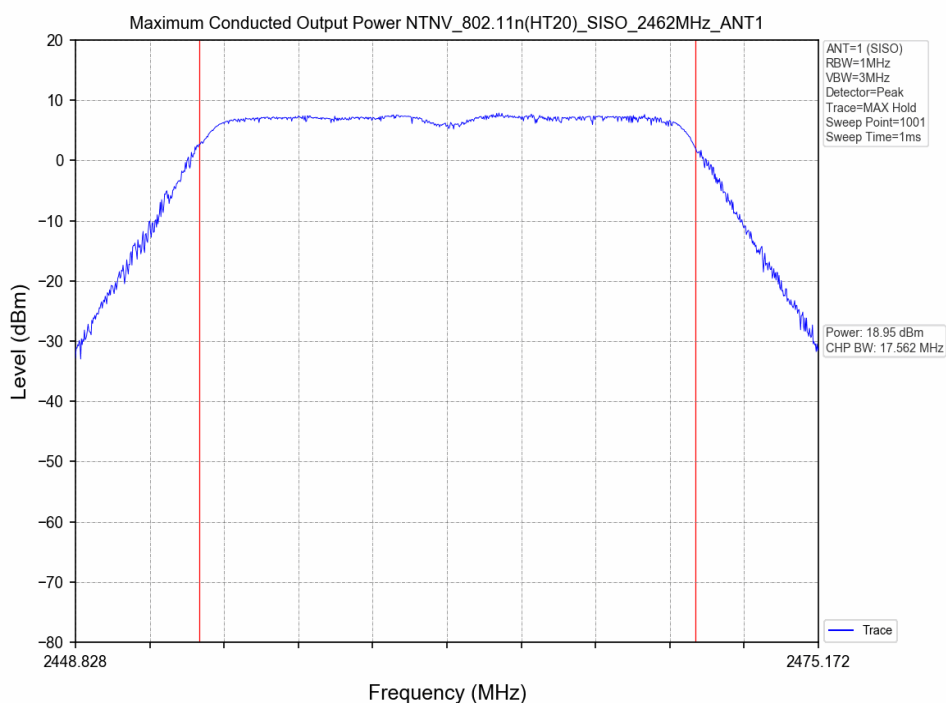
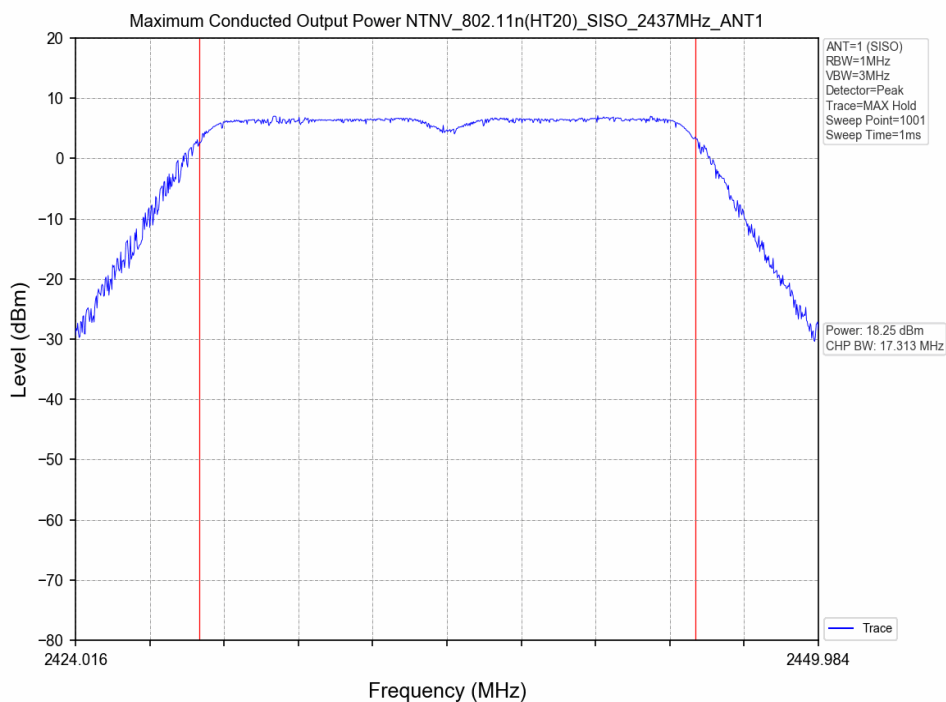
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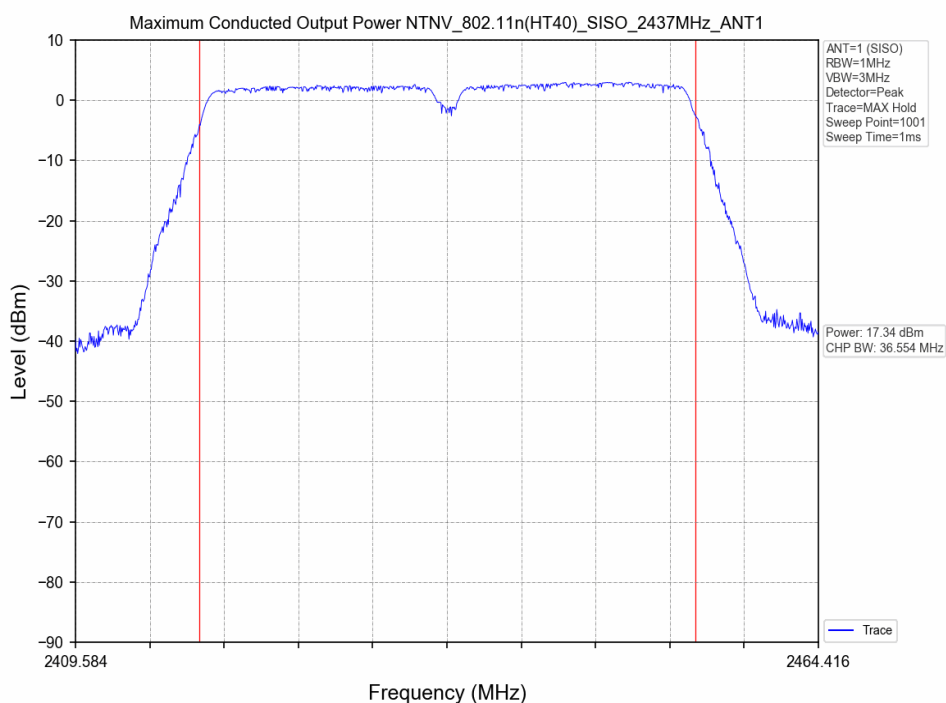
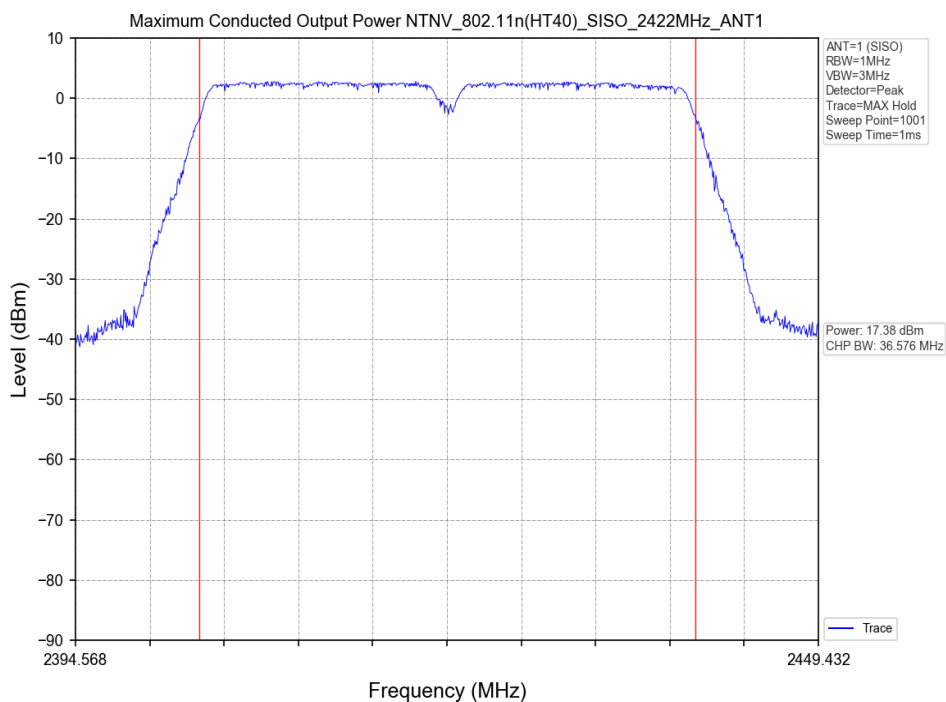
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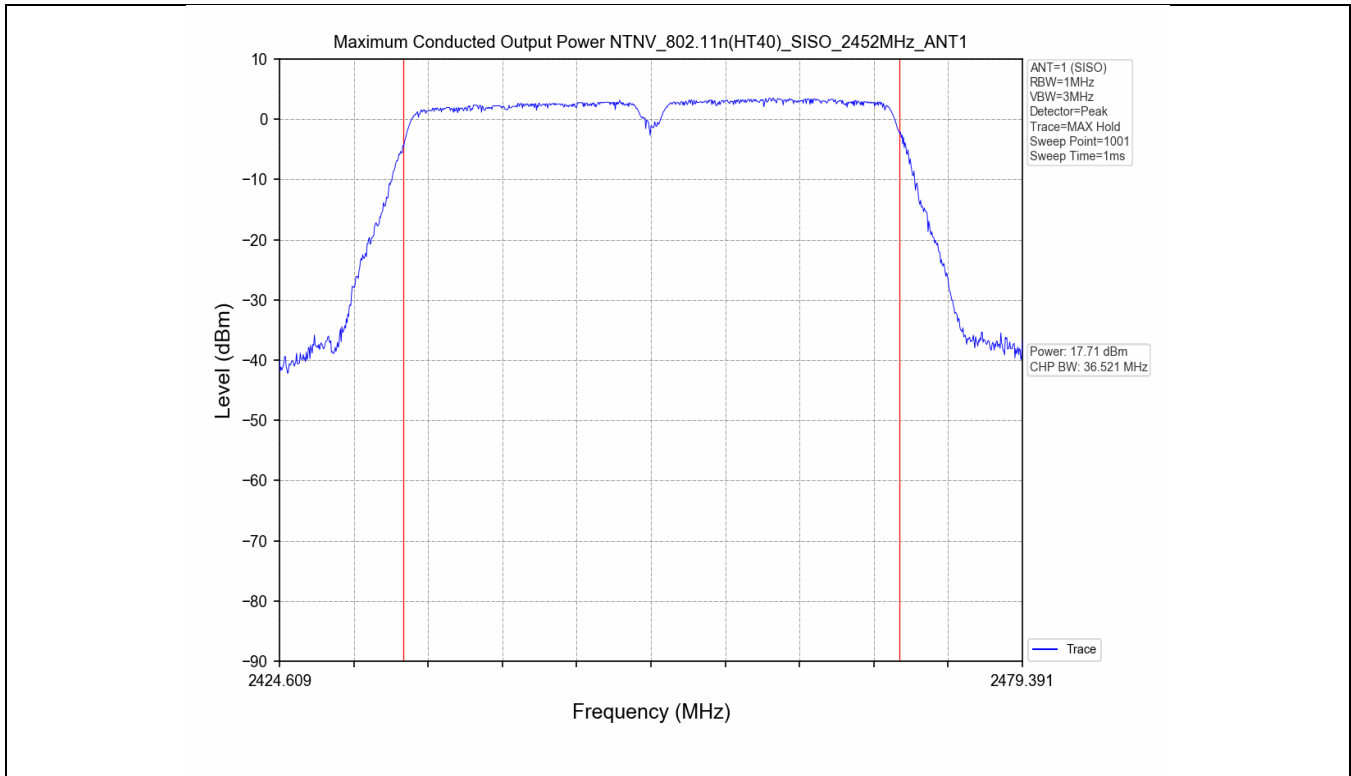
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## 4. Maximum Power Spectral Density (PSD)

### 4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-10.44	≤8	PASS
	2437	SISO	-11.06	≤8	PASS
	2462	SISO	-10.34	≤8	PASS
802.11g	2412	SISO	-14.31	≤8	PASS
	2437	SISO	-14.42	≤8	PASS
	2462	SISO	-14.30	≤8	PASS
802.11n(HT20)	2412	SISO	-14.01	≤8	PASS
	2437	SISO	-15.10	≤8	PASS
	2462	SISO	-14.22	≤8	PASS
802.11n(HT40)	2422	SISO	-19.10	≤8	PASS
	2437	SISO	-18.70	≤8	PASS
	2452	SISO	-18.29	≤8	PASS

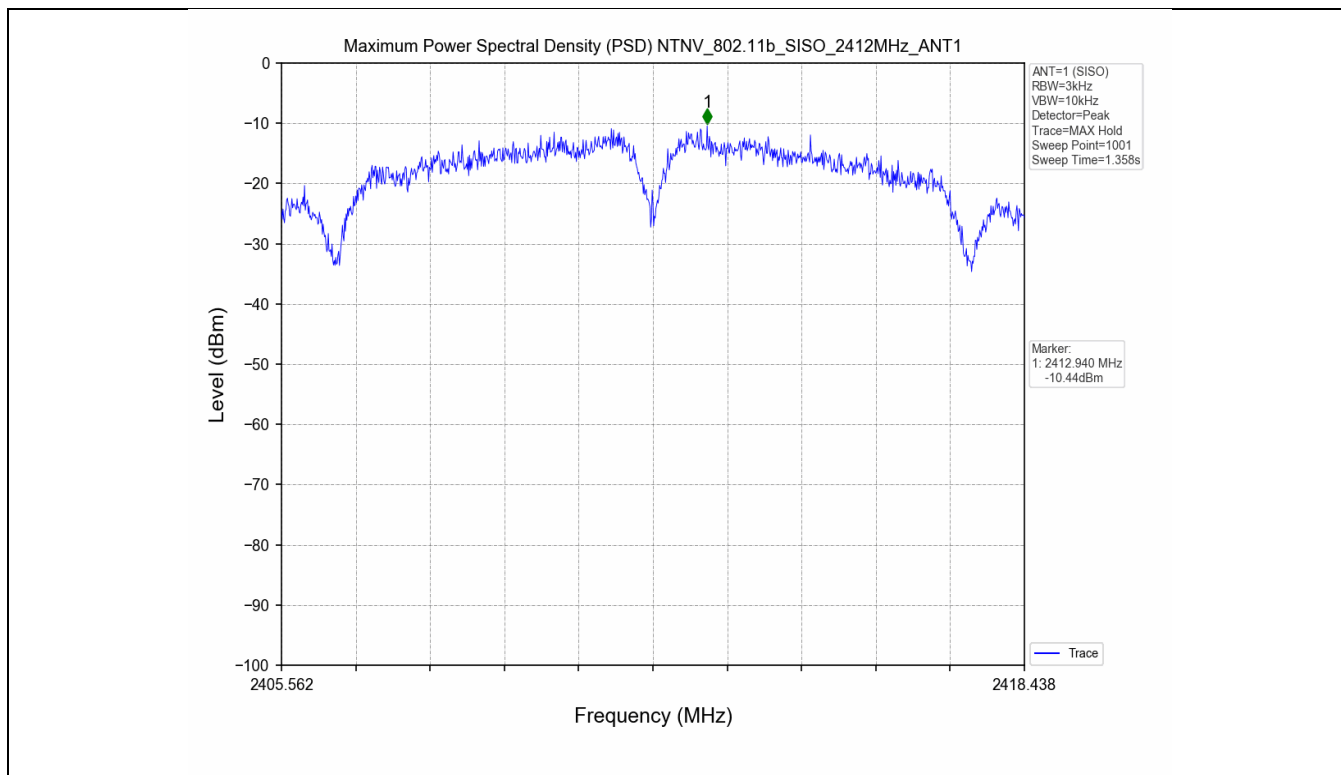
### 4.2 Test Graph



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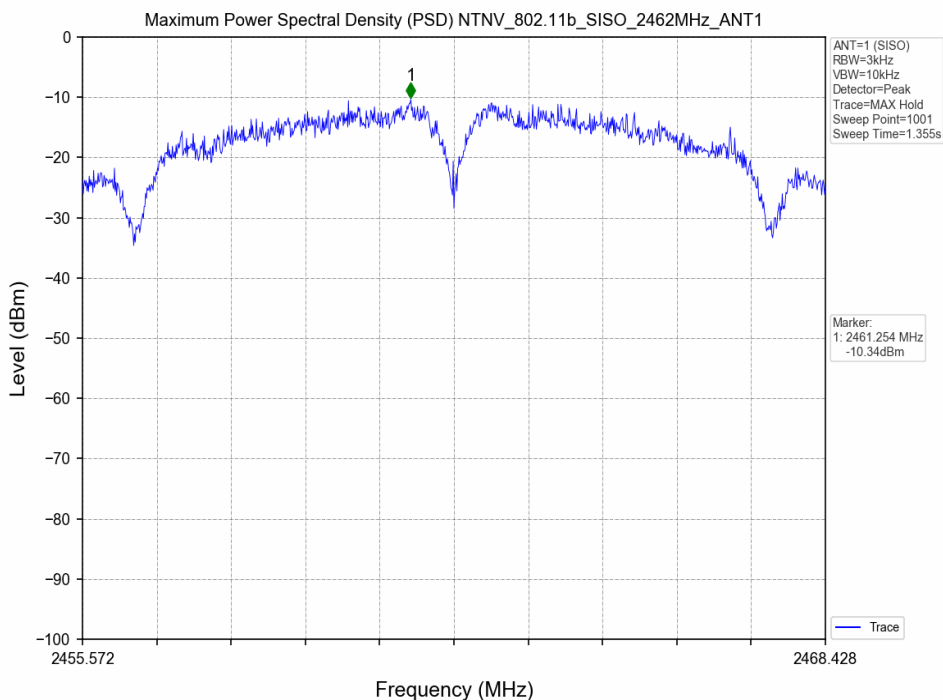
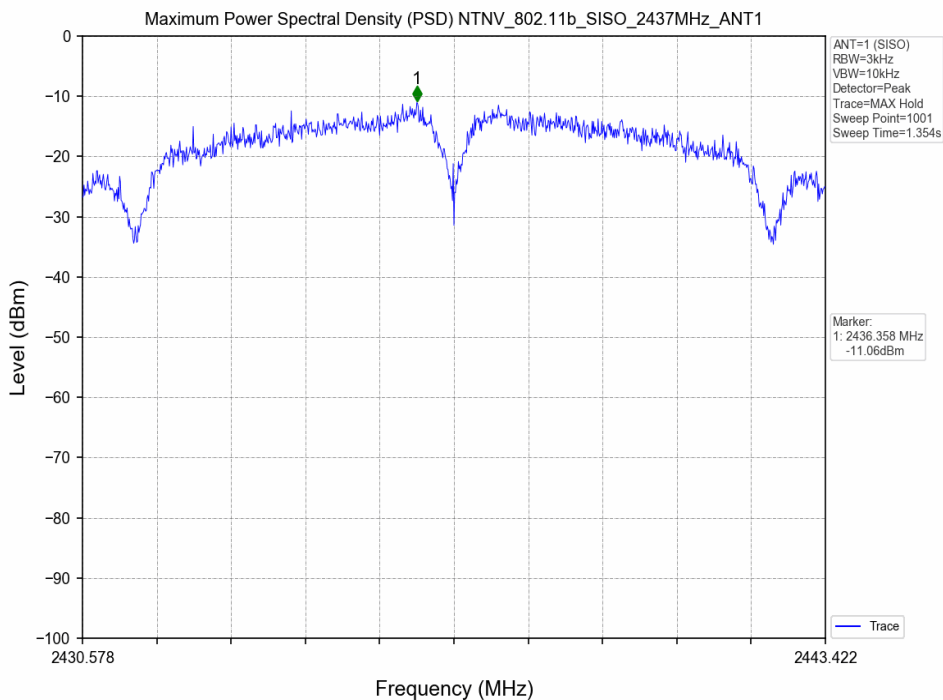
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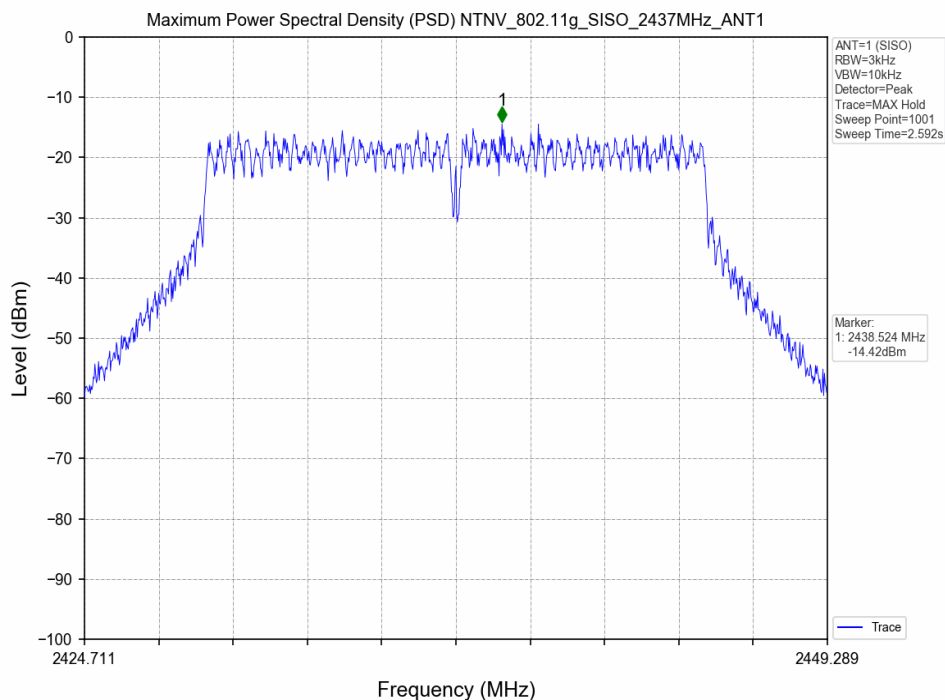
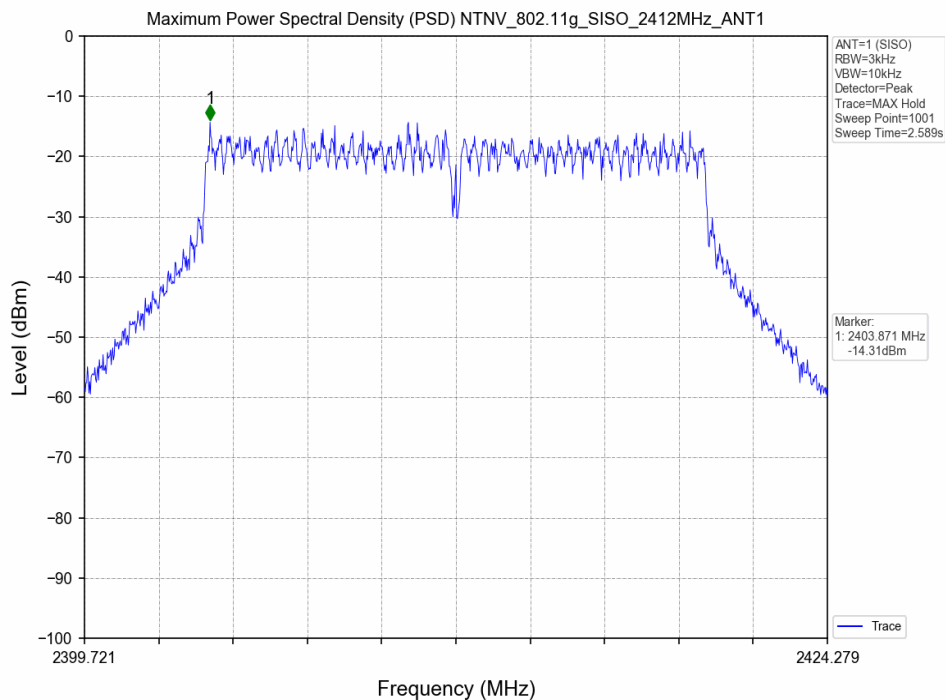
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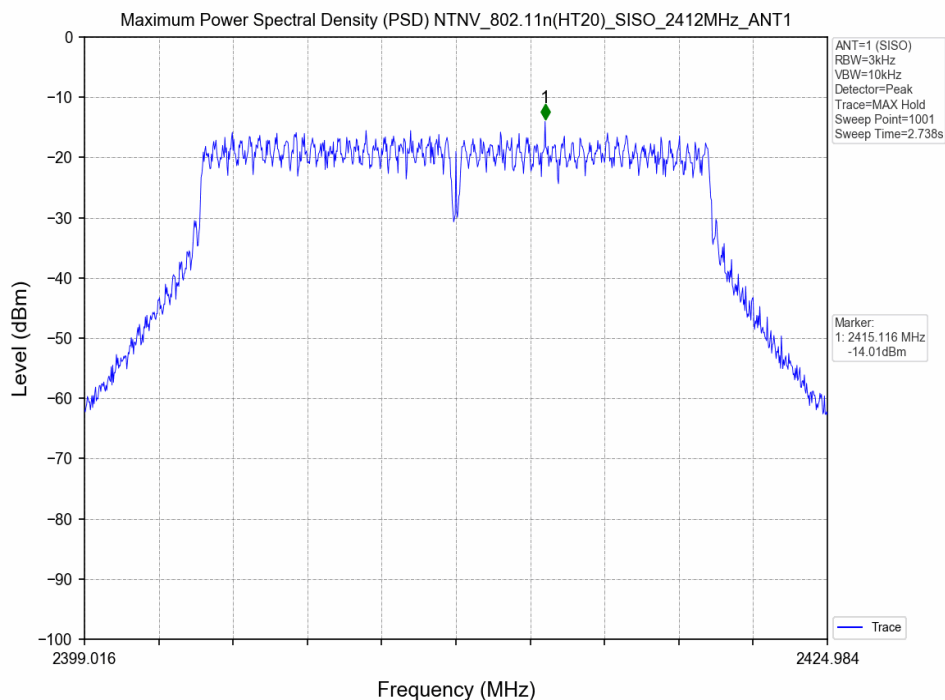
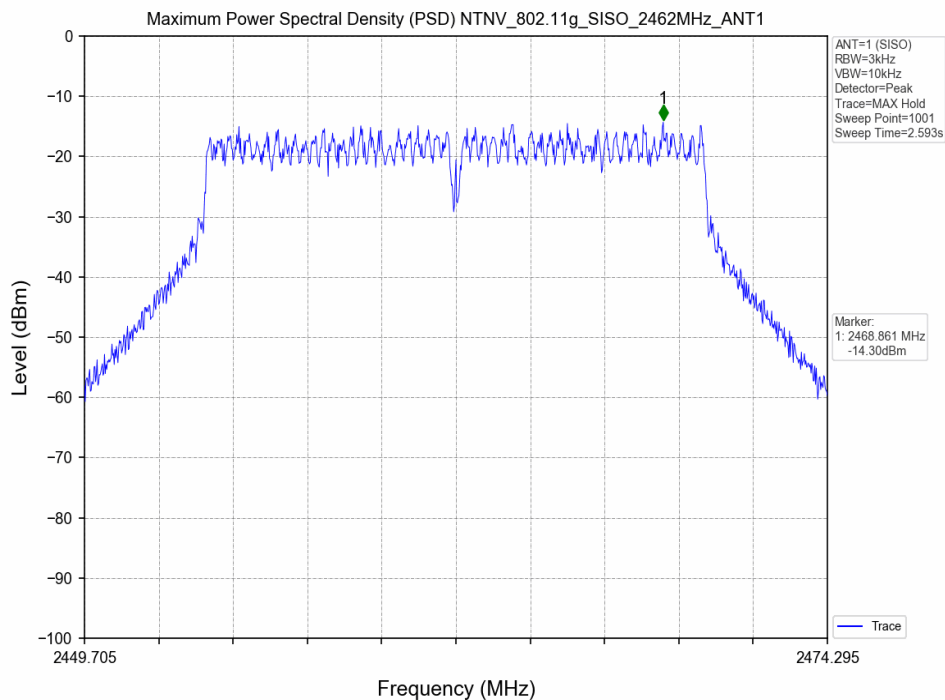
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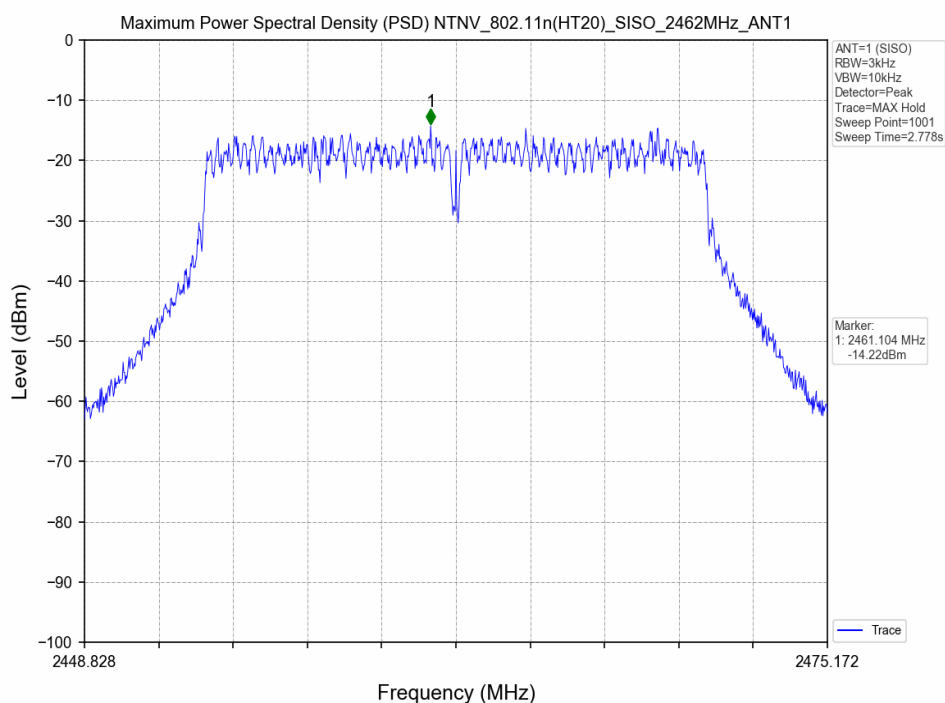
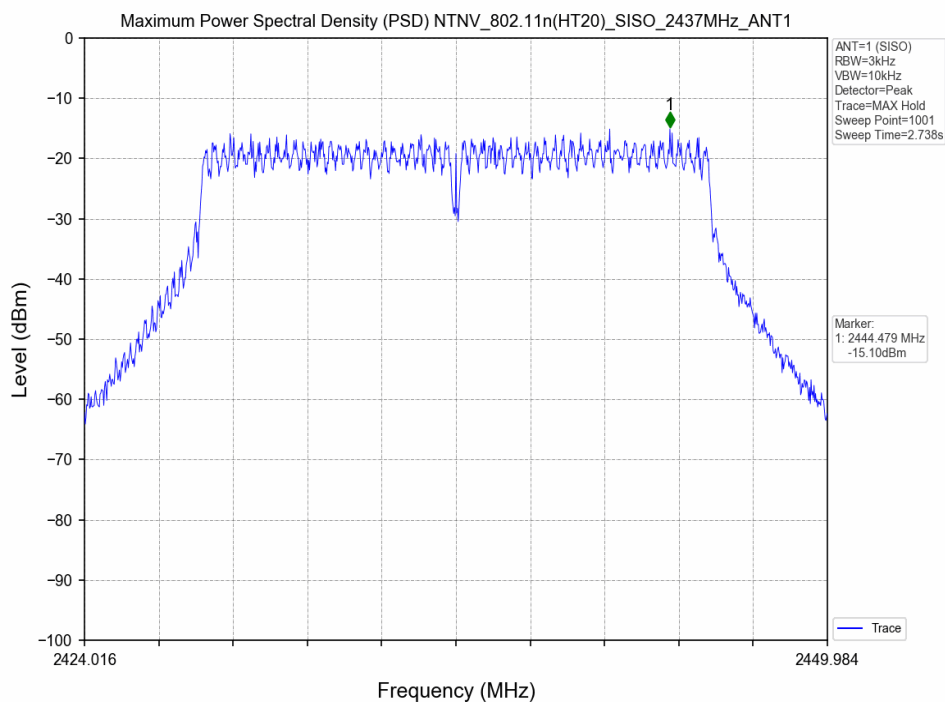
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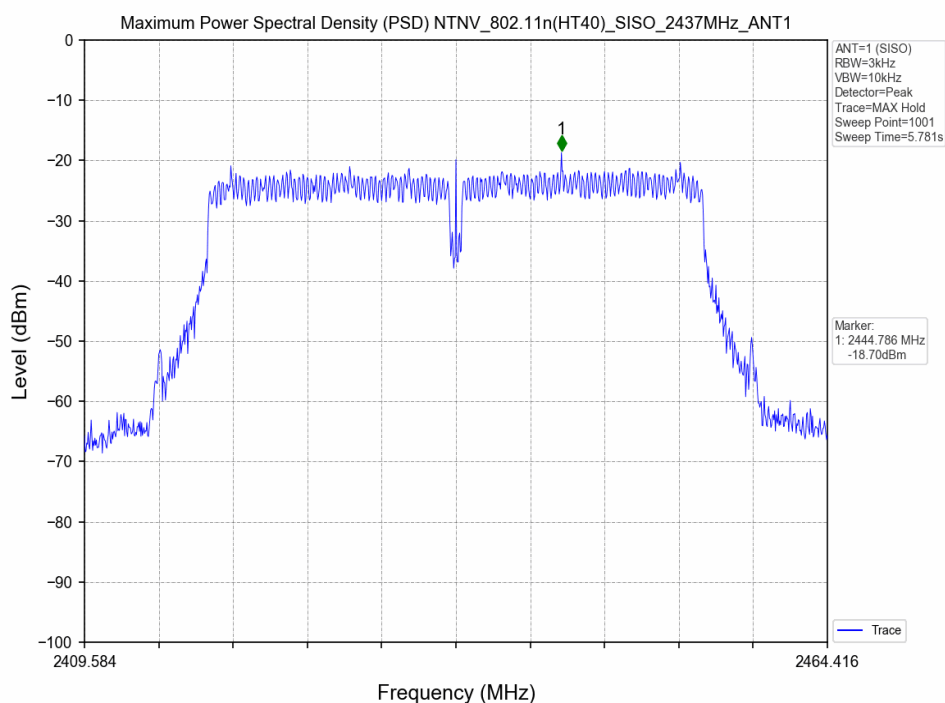
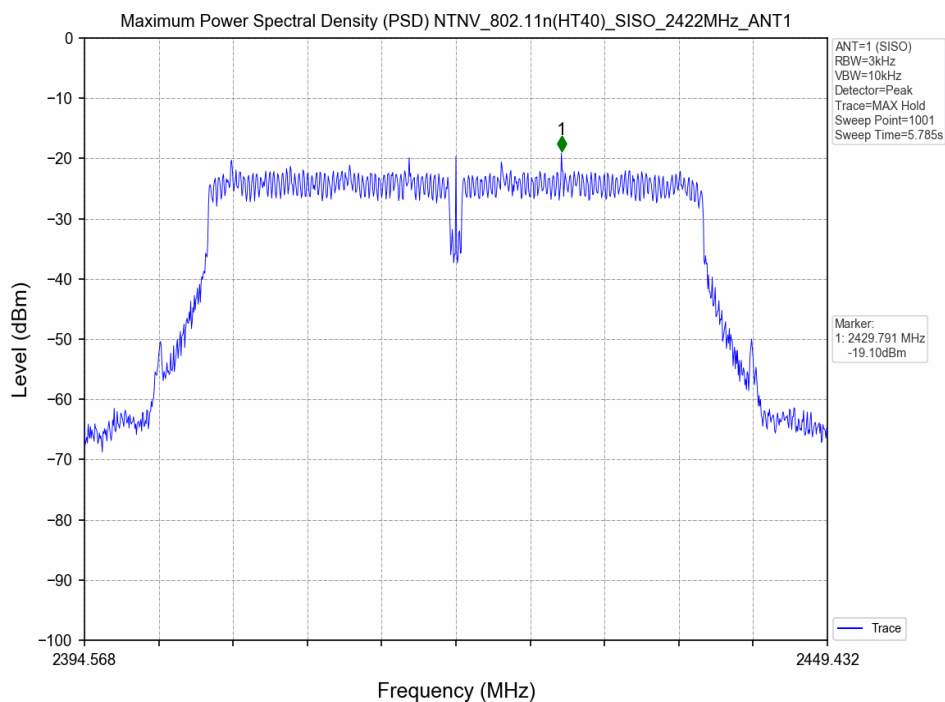
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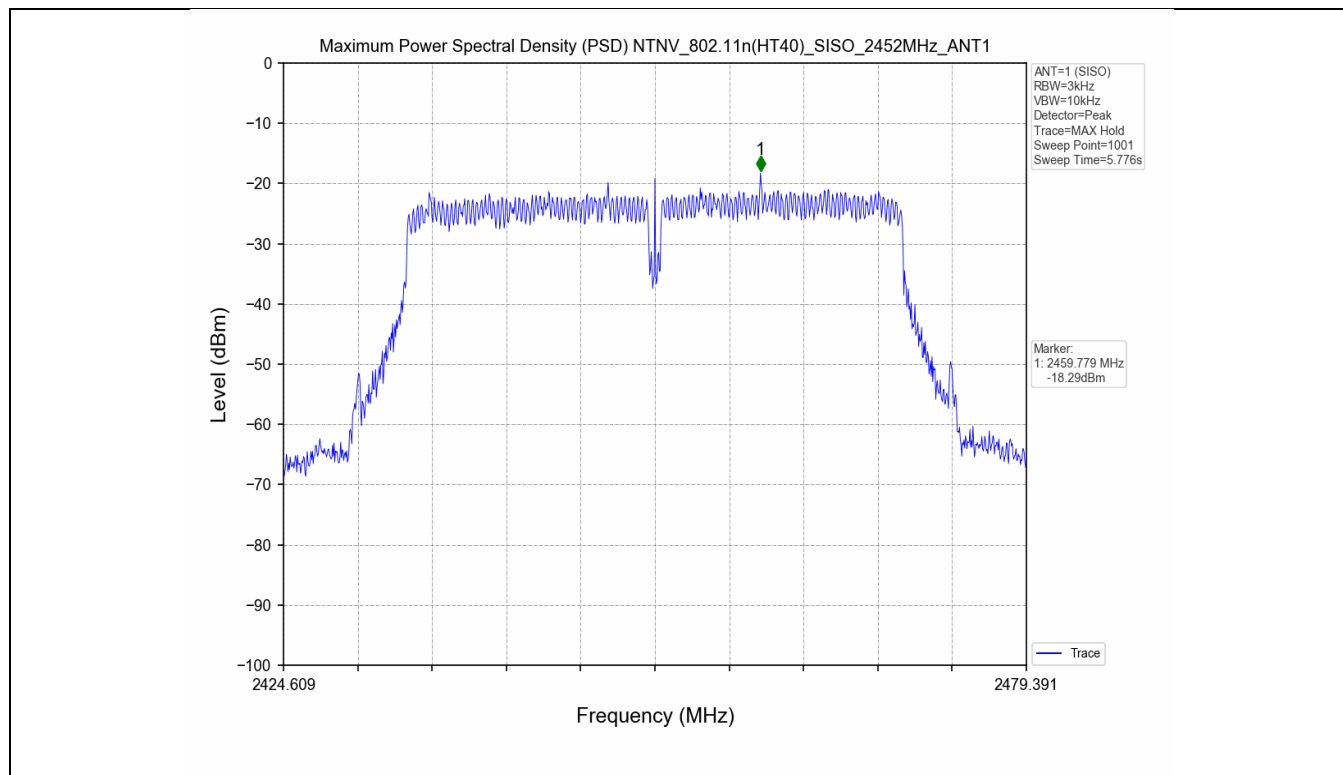
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## 5. Unwanted Emissions in Non-restricted Frequency Bands

### 5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-15.79	PASS
	2437	SISO	1	Refer to test graph	-15.79	PASS
	2462	SISO	1	Refer to test graph	-15.79	PASS
802.11g	2412	SISO	1	Refer to test graph	-19.85	PASS
	2437	SISO	1	Refer to test graph	-19.85	PASS
	2462	SISO	1	Refer to test graph	-19.85	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-20.06	PASS
	2437	SISO	1	Refer to test graph	-20.06	PASS
	2462	SISO	1	Refer to test graph	-20.06	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-27.16	PASS
	2437	SISO	1	Refer to test graph	-27.16	PASS
	2452	SISO	1	Refer to test graph	-27.16	PASS

### 5.2 Test Graph



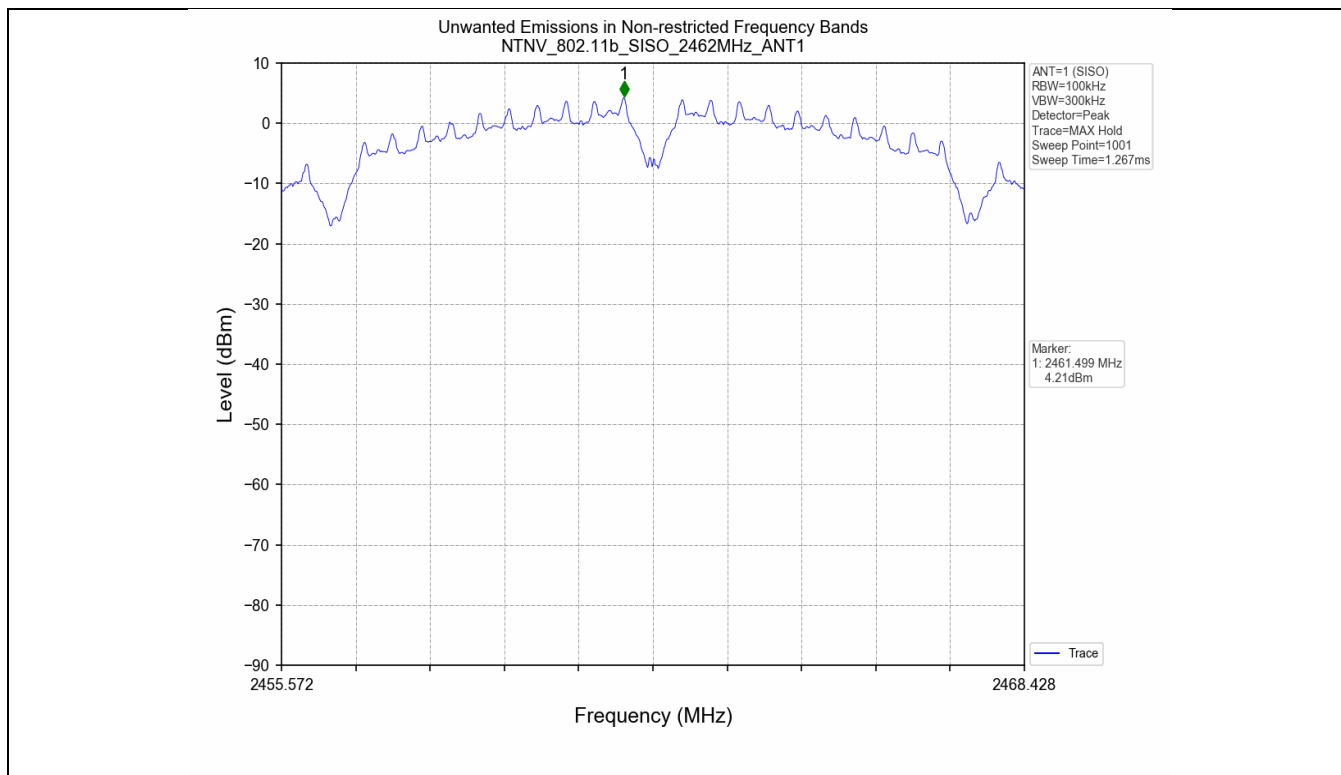
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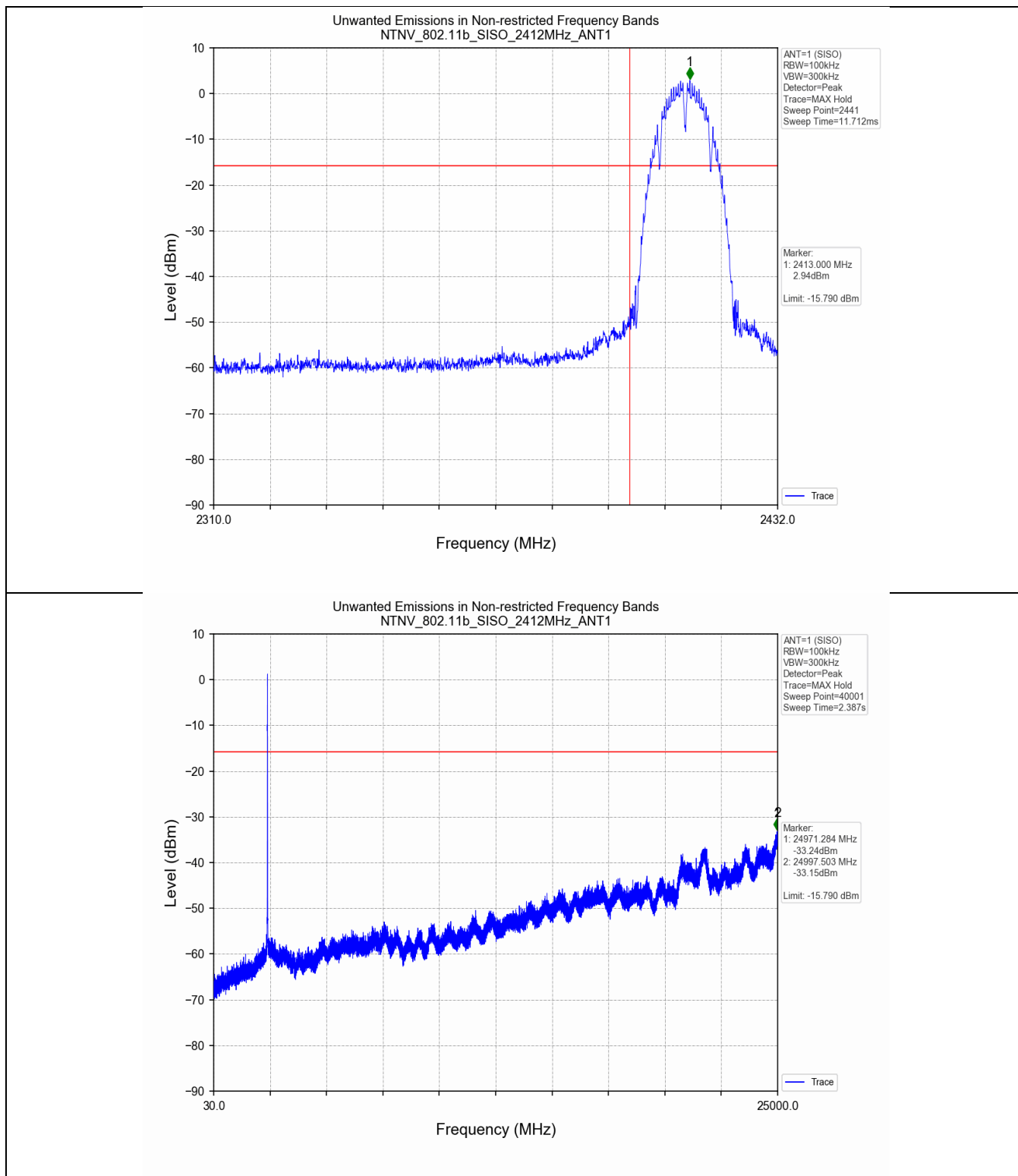
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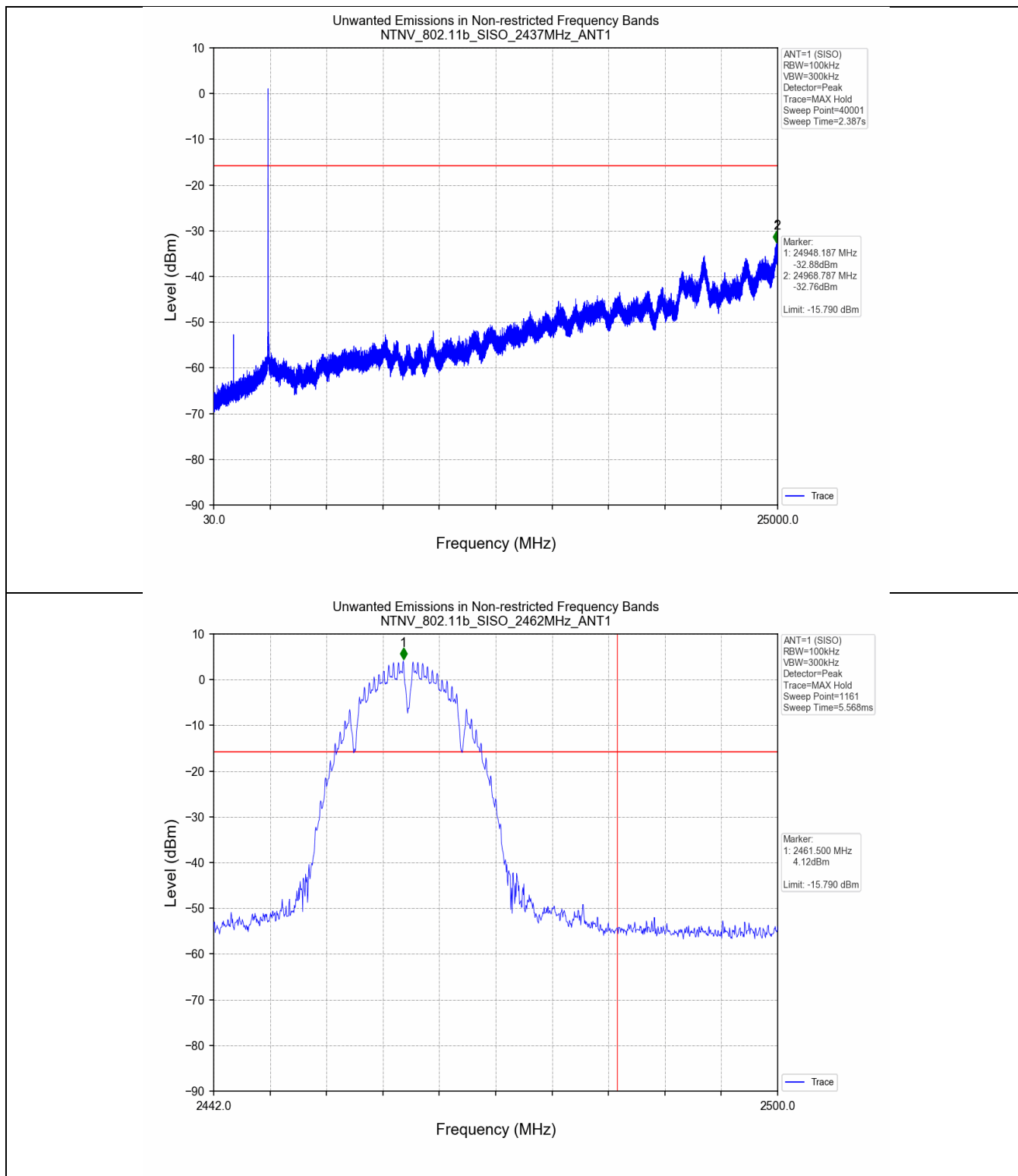
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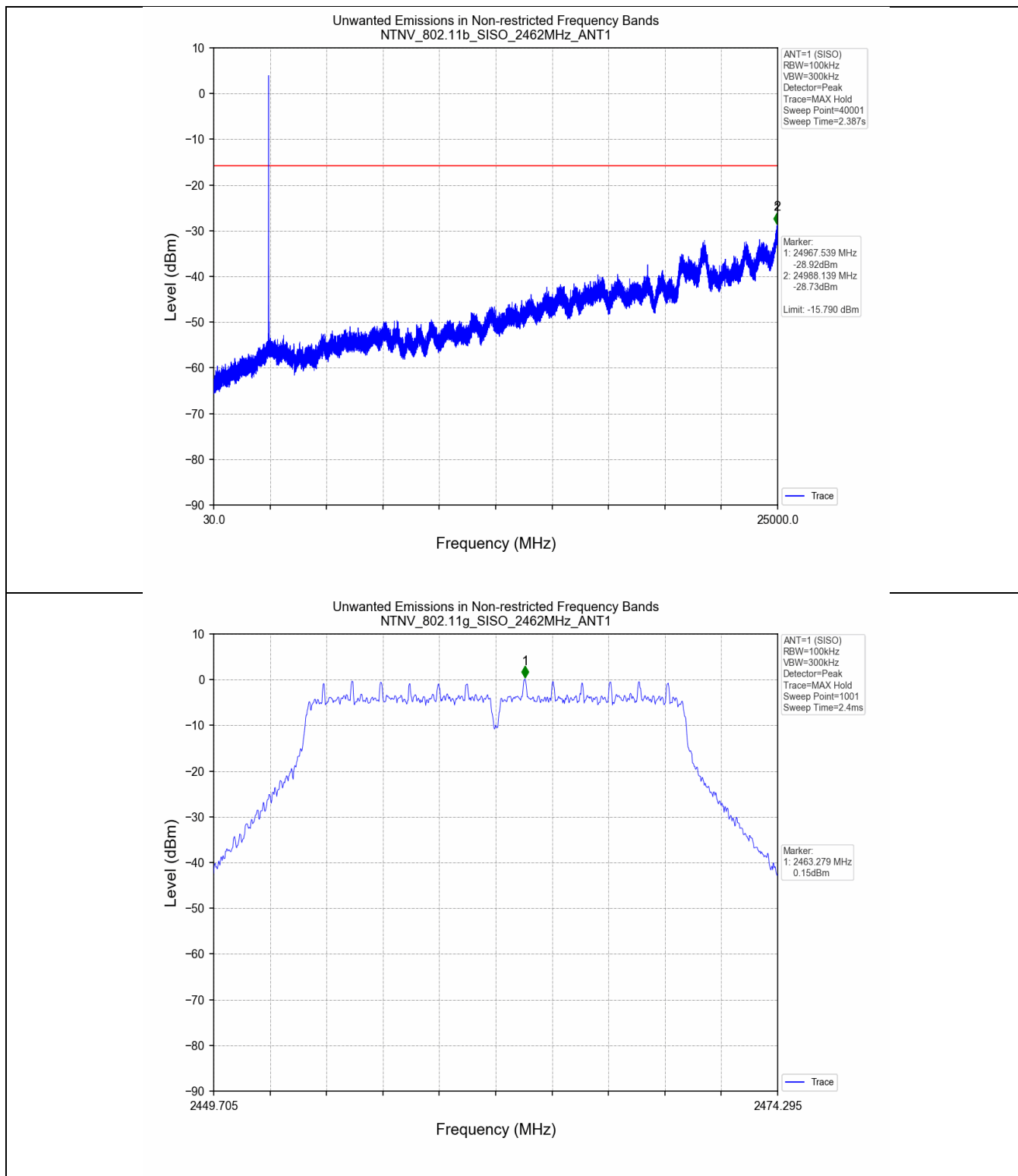
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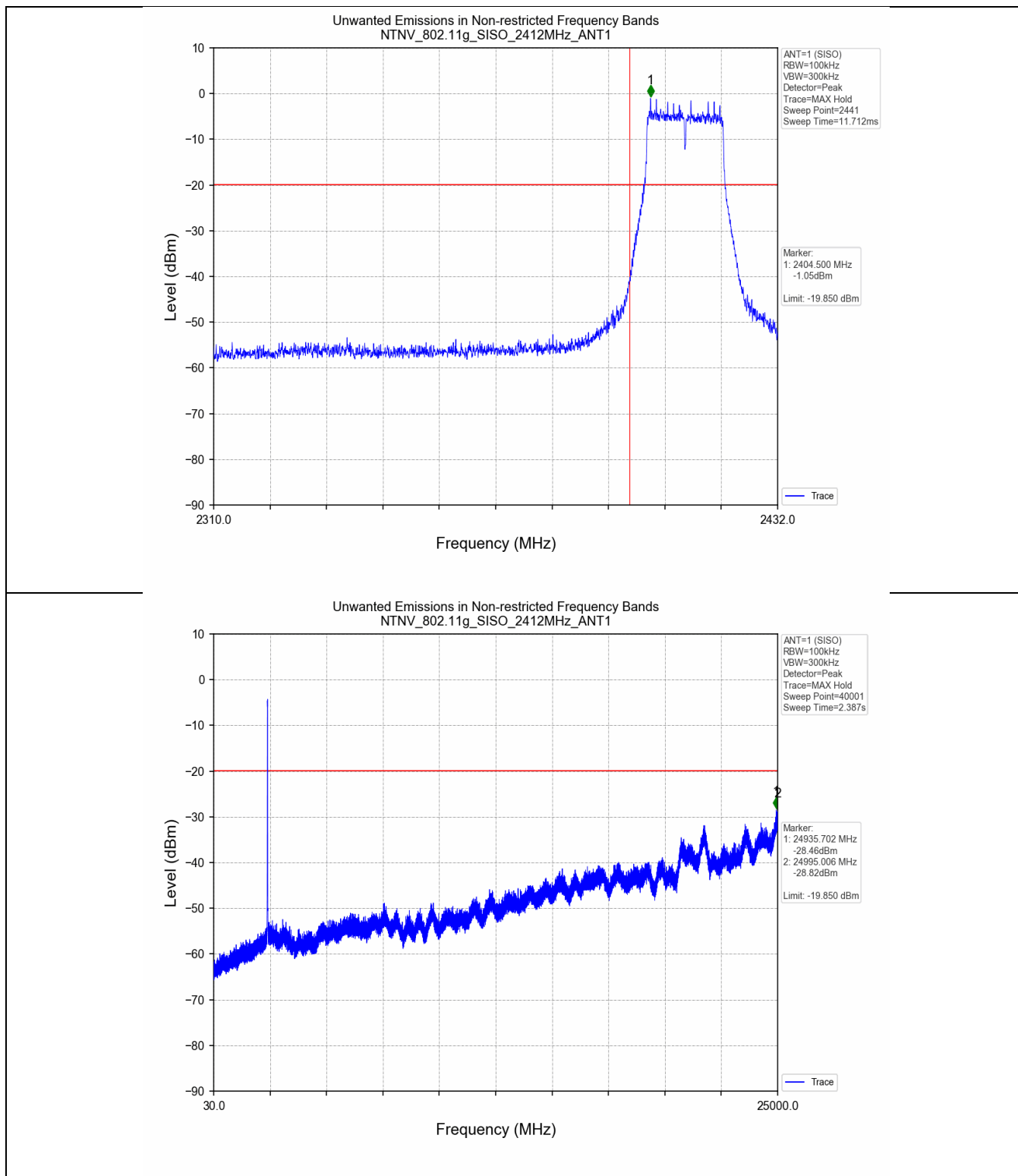


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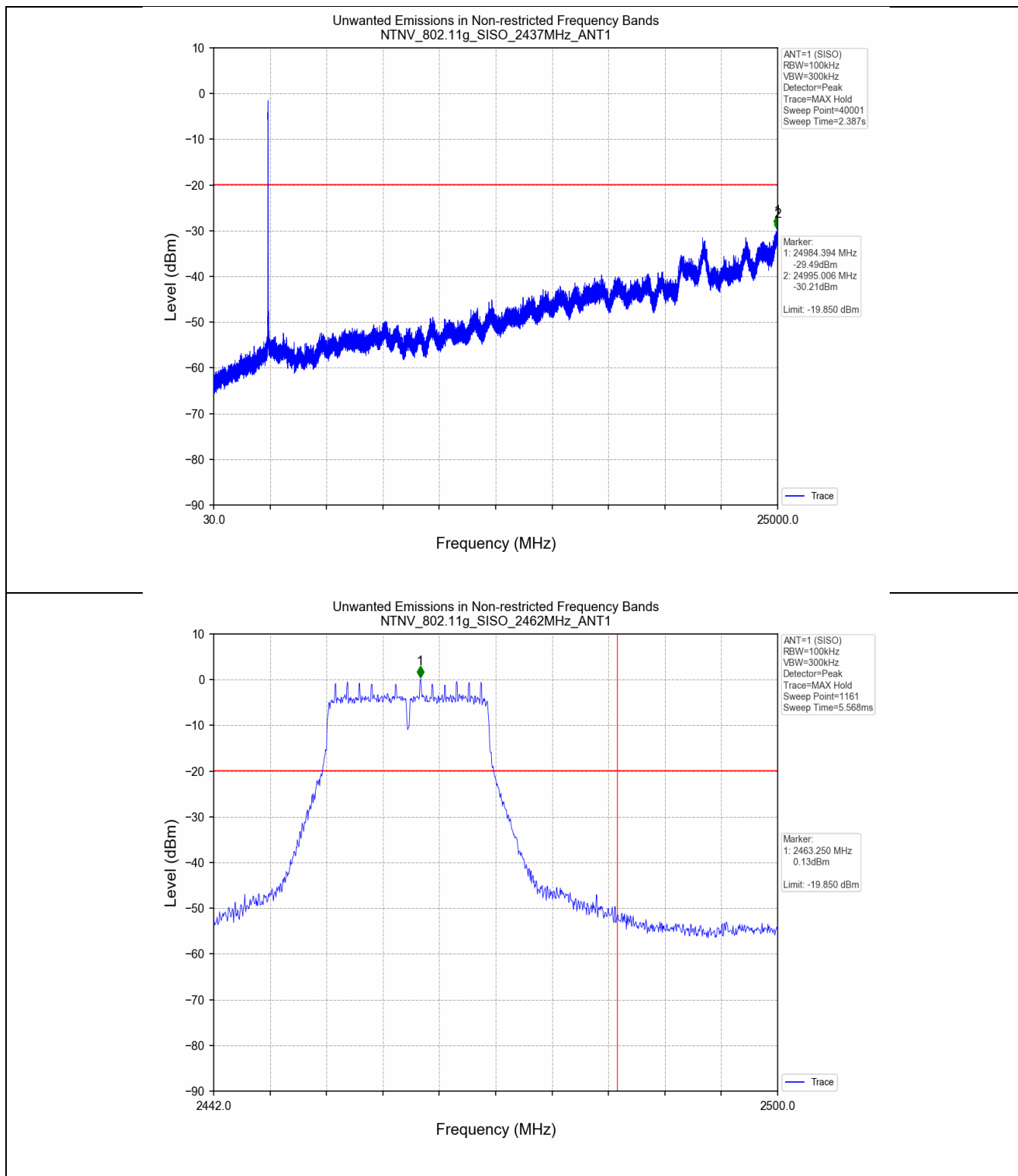


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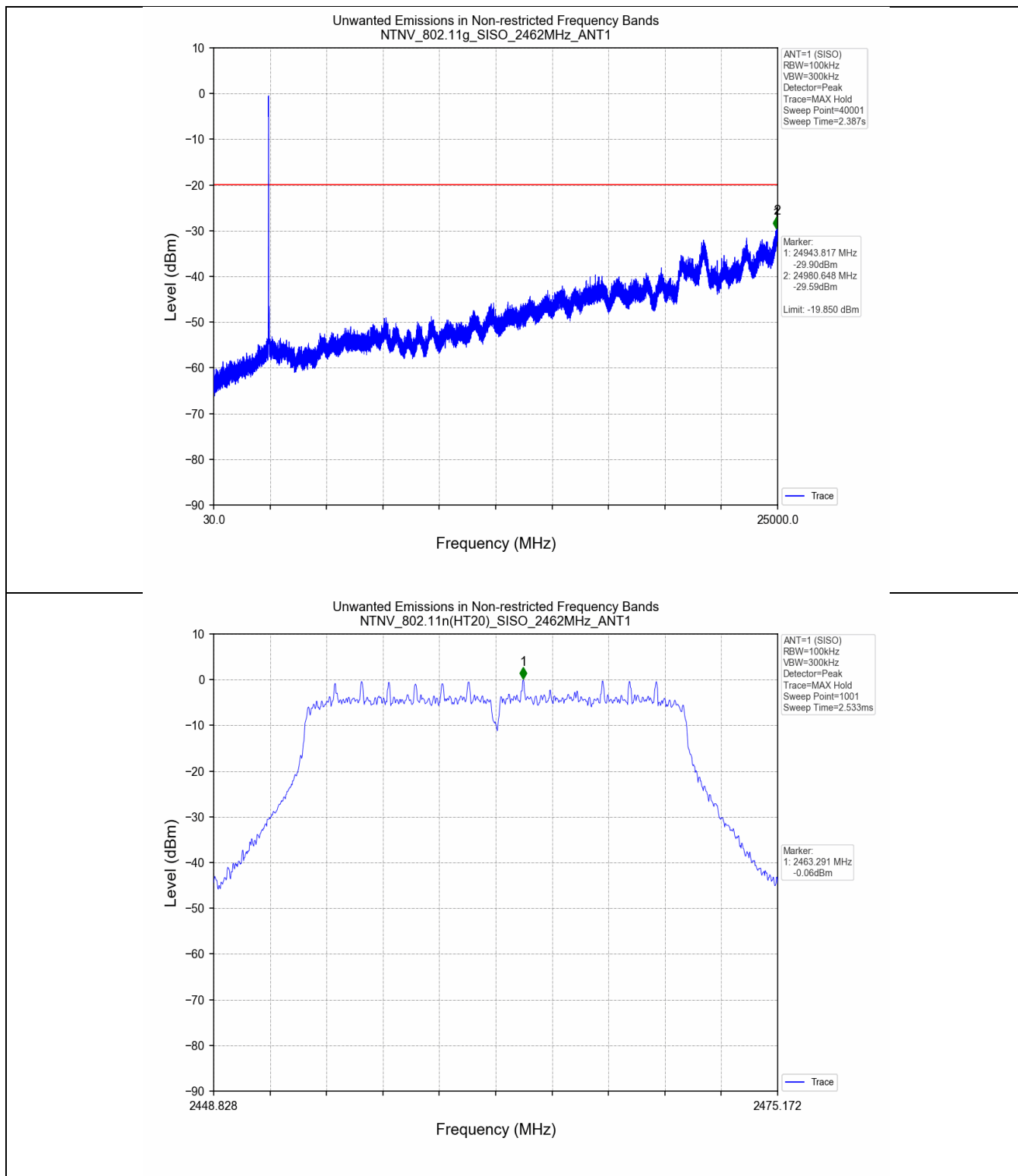


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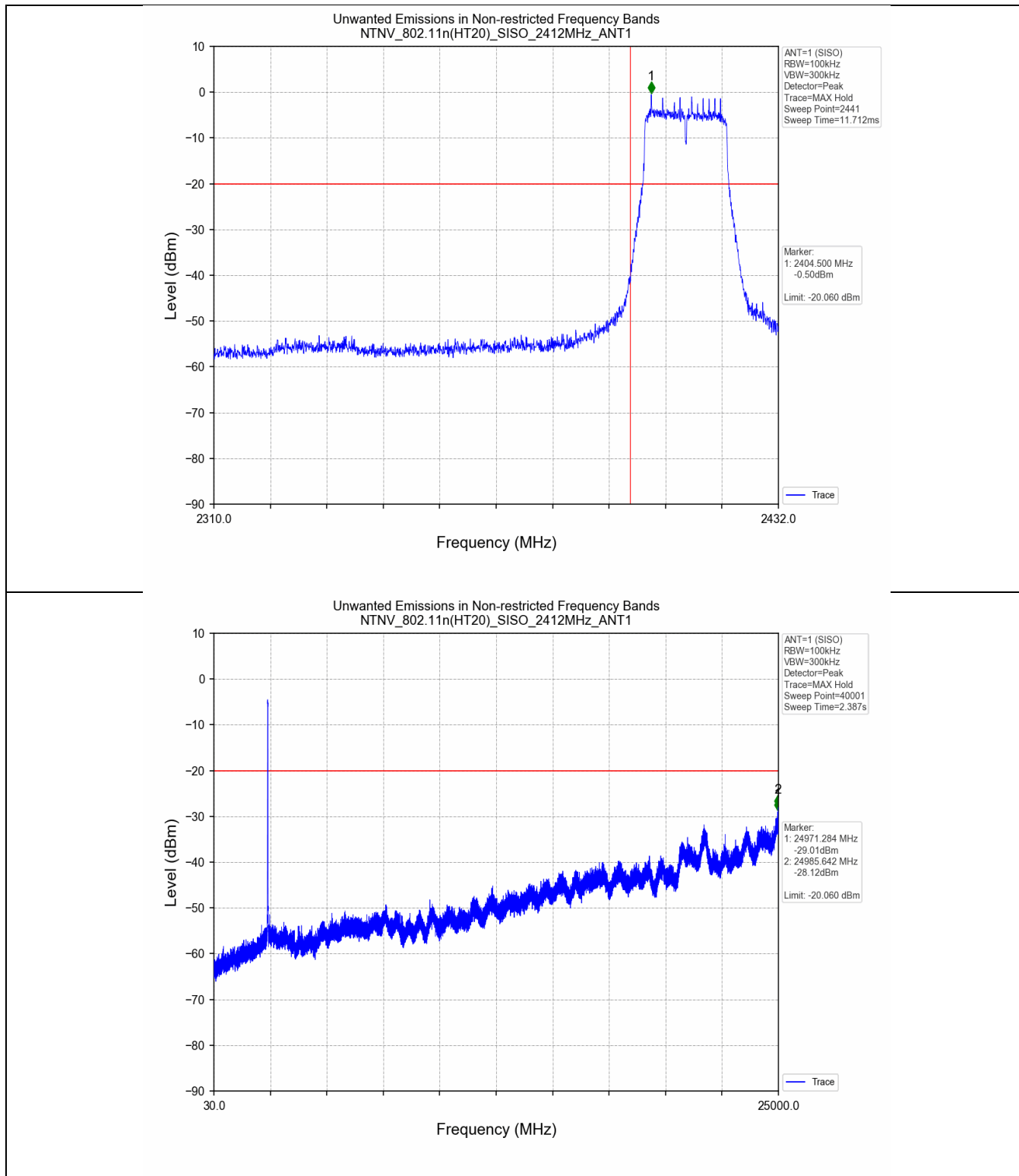
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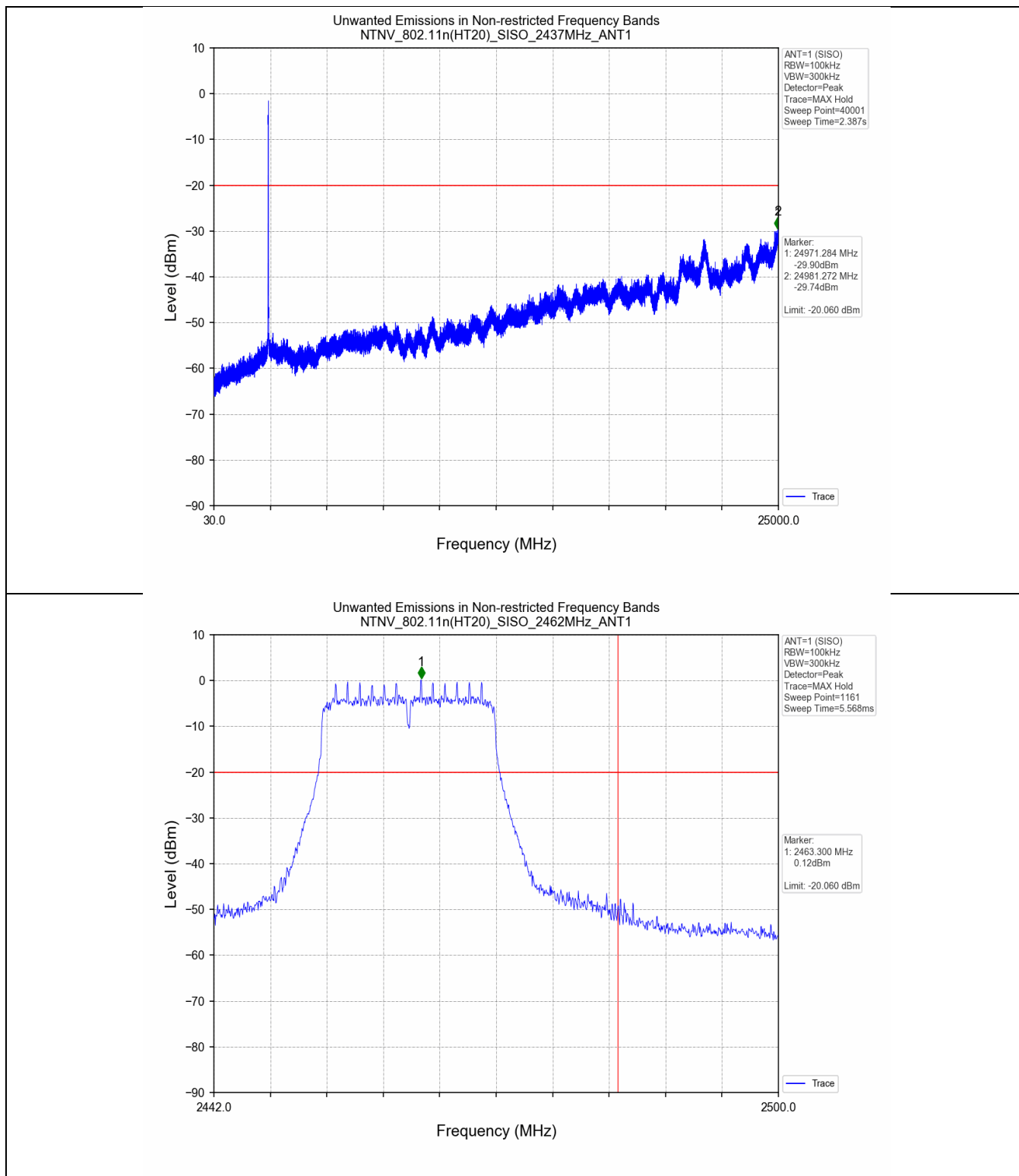
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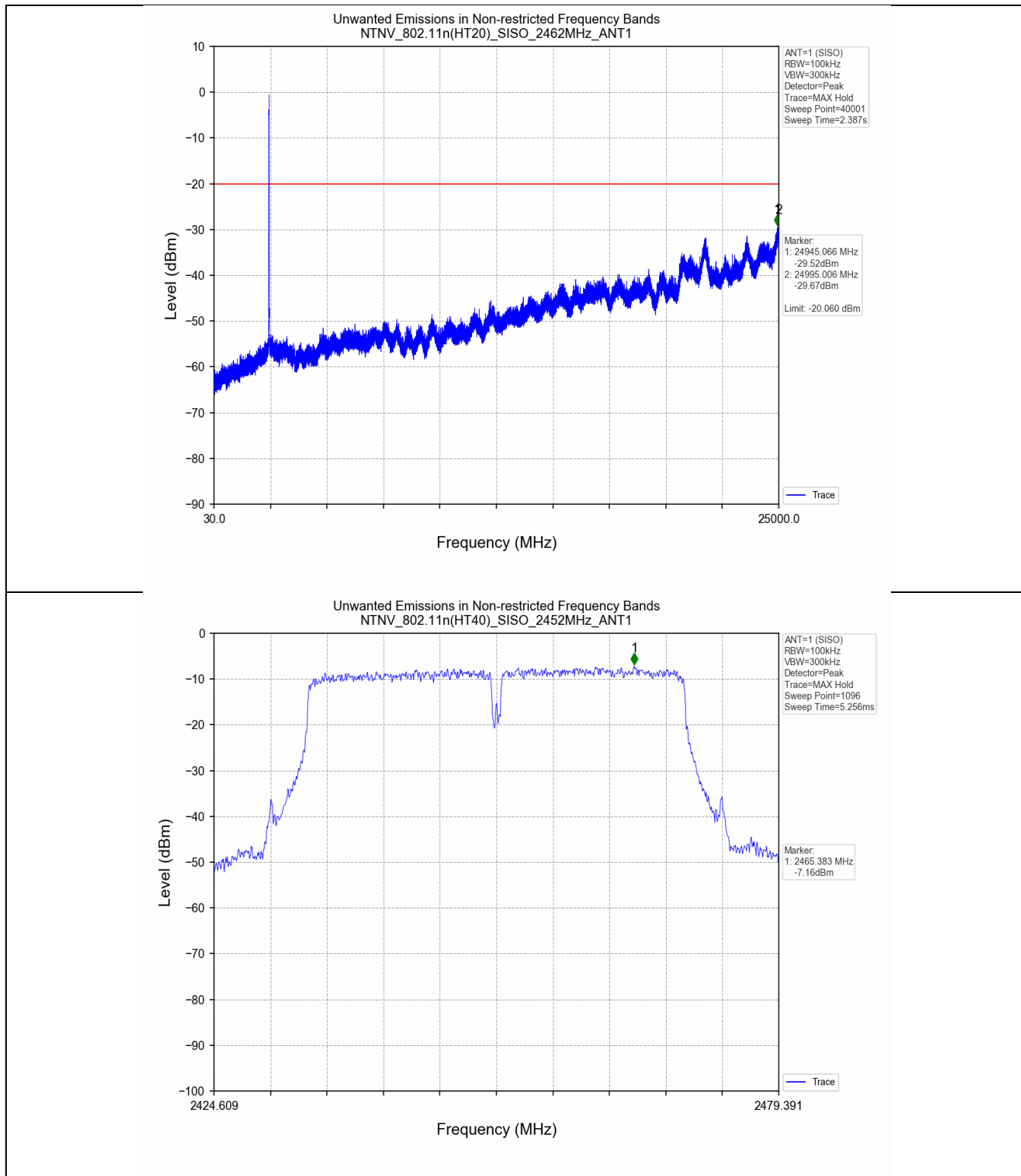
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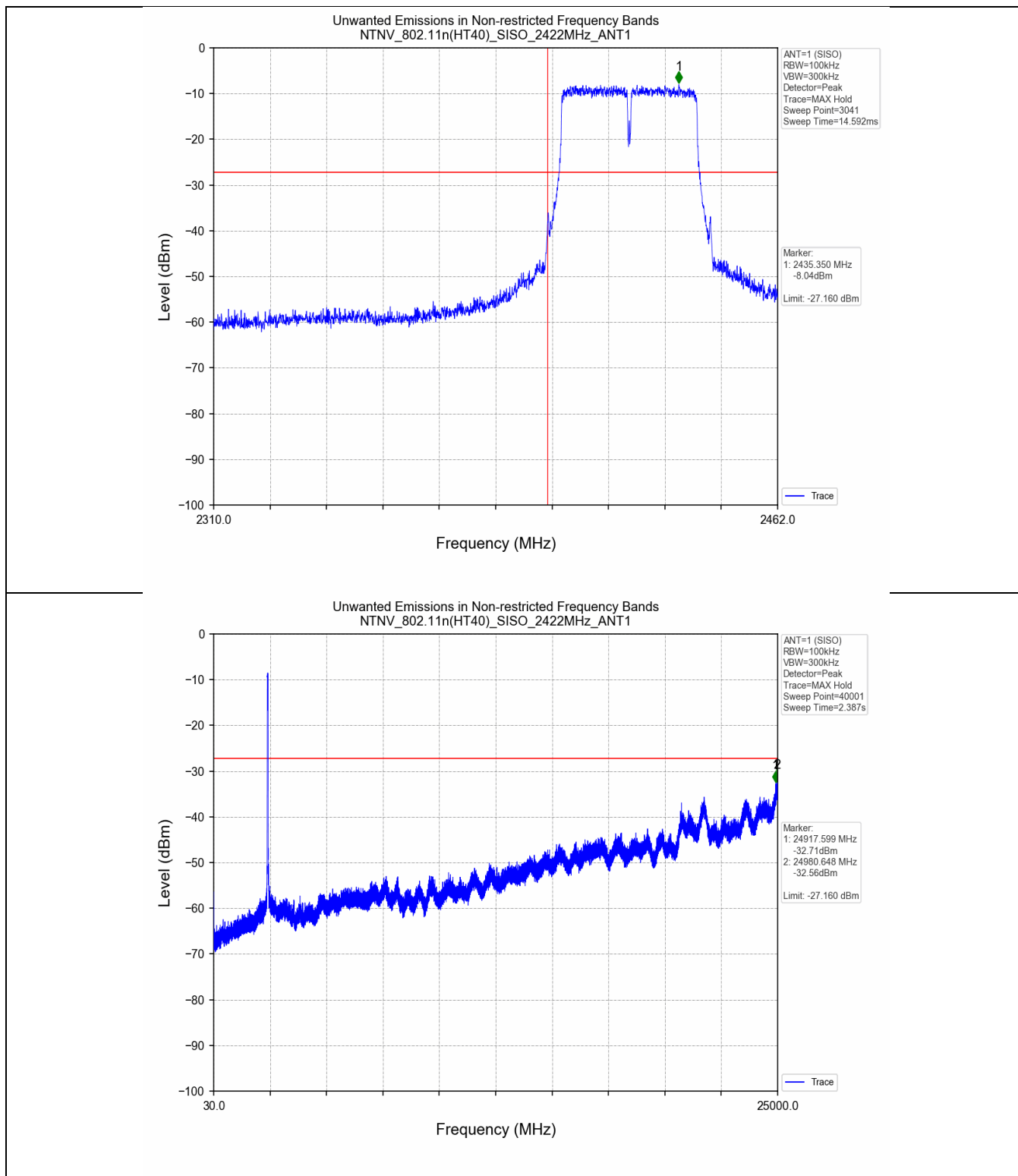


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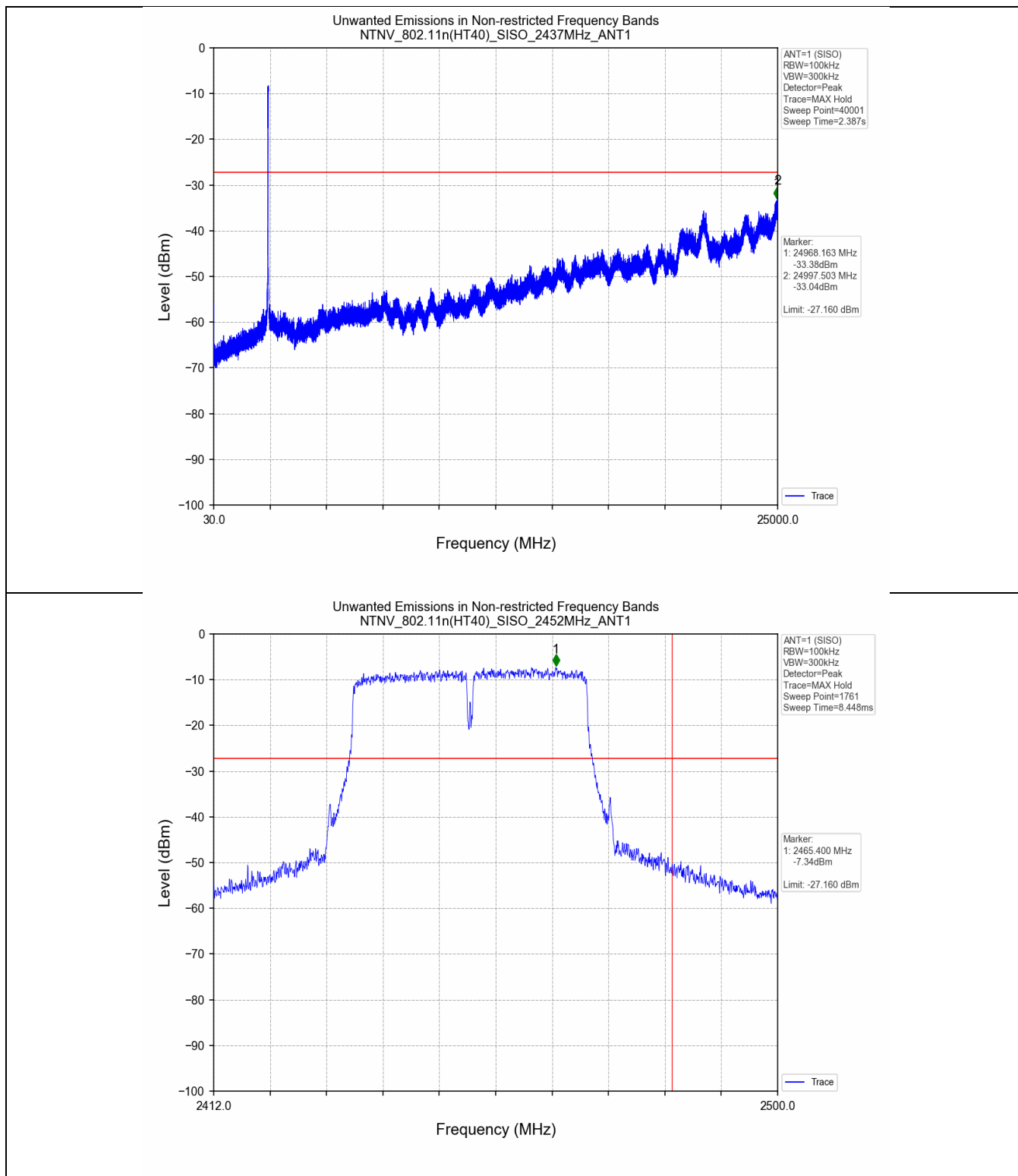


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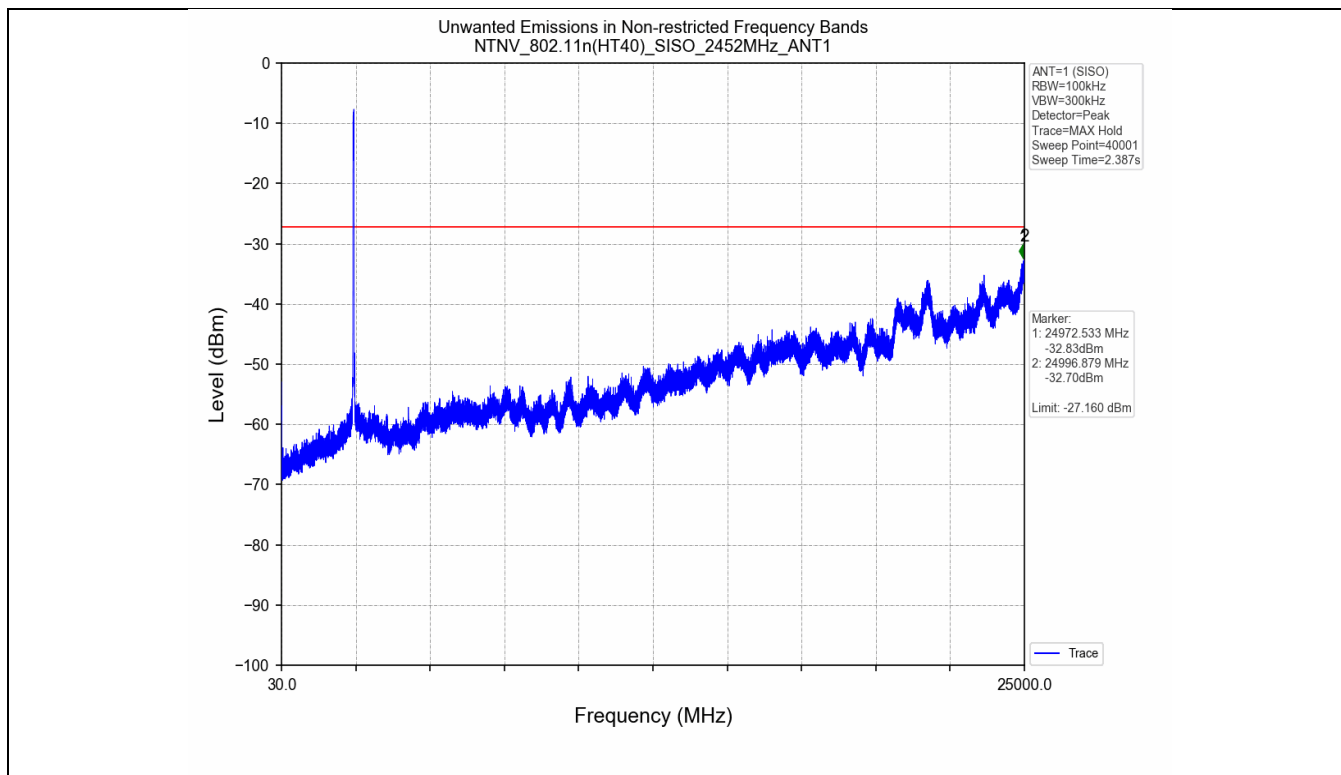
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