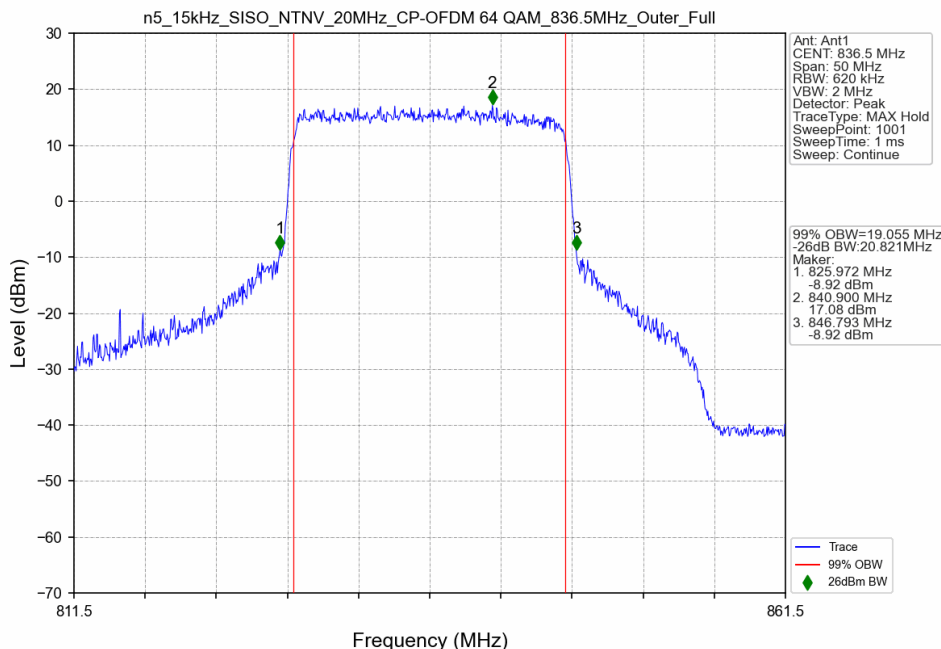
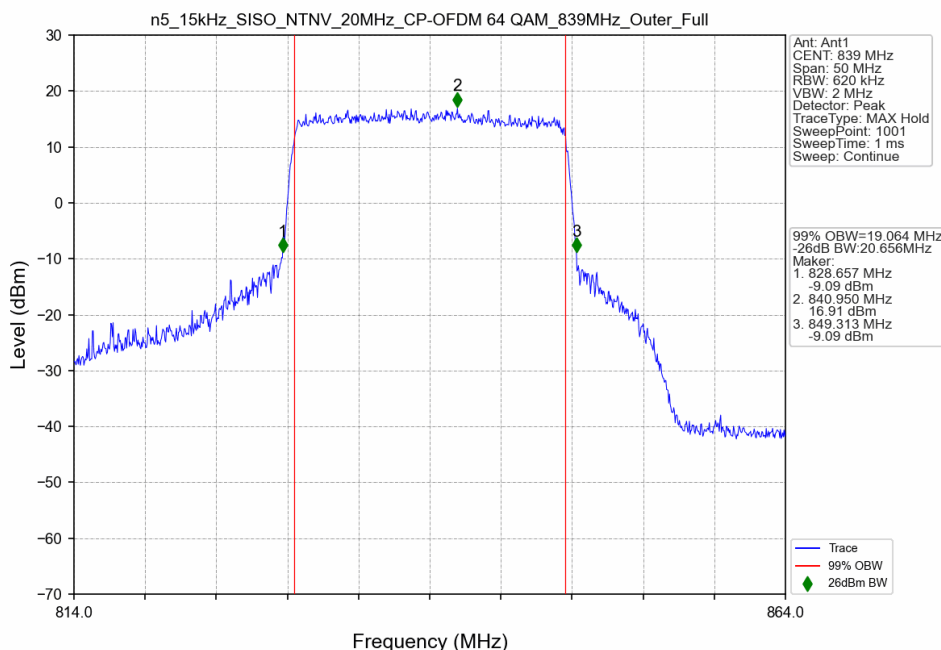


n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_839MHz\_Outer\_Full

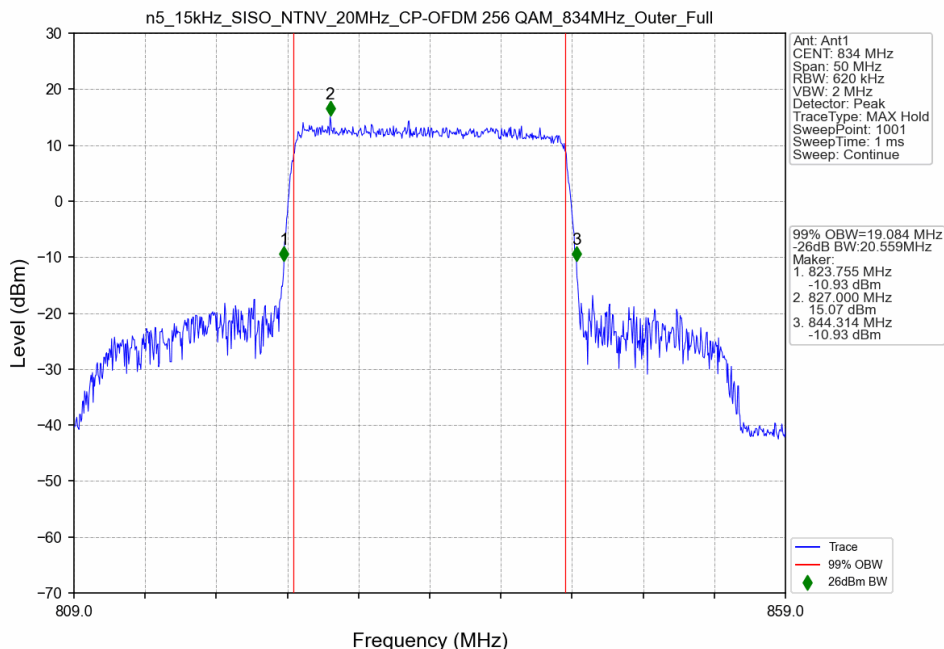


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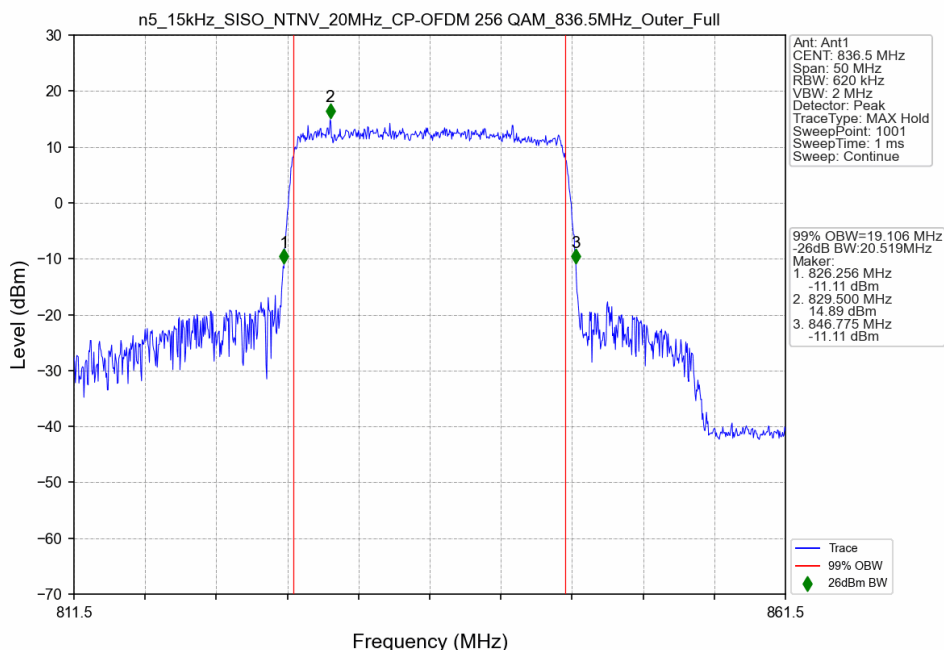
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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_834MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_836.5MHz\_Outer\_Full

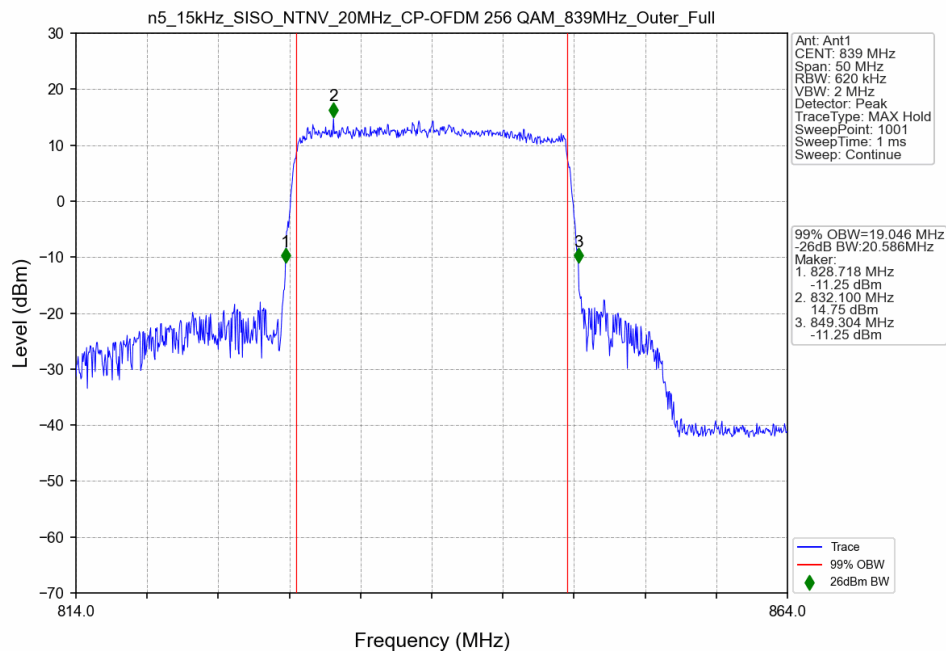


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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_839MHz\_Outer\_Full



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### 4. Peak-Average Ratio

#### 4.1 Test Result

##### 4.1.1 15k\_SISO\_20MHz\_NTNV

5G NR n5 SCS=15kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	834	Outer_Full	3.91	/	/	<=13	Pass
	836.5	Outer_Full	8.47	/	/	<=13	Pass
	839	Outer_Full	3.87	/	/	<=13	Pass
DFT-s-OFDM QPSK	834	Outer_Full	8.47	/	/	<=13	Pass
	836.5	Outer_Full	7.60	/	/	<=13	Pass
	839	Outer_Full	4.89	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	834	Outer_Full	5.26	/	/	<=13	Pass
	836.5	Outer_Full	8.48	/	/	<=13	Pass
	839	Outer_Full	5.70	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	834	Outer_Full	5.76	/	/	<=13	Pass
	836.5	Outer_Full	5.93	/	/	<=13	Pass
	839	Outer_Full	6.12	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	834	Outer_Full	8.47	/	/	<=13	Pass
	836.5	Outer_Full	6.50	/	/	<=13	Pass
	839	Outer_Full	8.46	/	/	<=13	Pass
CP-OFDM QPSK	834	Outer_Full	6.31	/	/	<=13	Pass
	836.5	Outer_Full	12.01	/	/	<=13	Pass
	839	Outer_Full	8.47	/	/	<=13	Pass
CP-OFDM 16 QAM	834	Outer_Full	7.00	/	/	<=13	Pass
	836.5	Outer_Full	6.91	/	/	<=13	Pass
	839	Outer_Full	8.46	/	/	<=13	Pass
CP-OFDM 64 QAM	834	Outer_Full	8.47	/	/	<=13	Pass
	836.5	Outer_Full	7.32	/	/	<=13	Pass
	839	Outer_Full	7.37	/	/	<=13	Pass
CP-OFDM 256 QAM	834	Outer_Full	8.46	/	/	<=13	Pass
	836.5	Outer_Full	8.37	/	/	<=13	Pass
	839	Outer_Full	8.46	/	/	<=13	Pass



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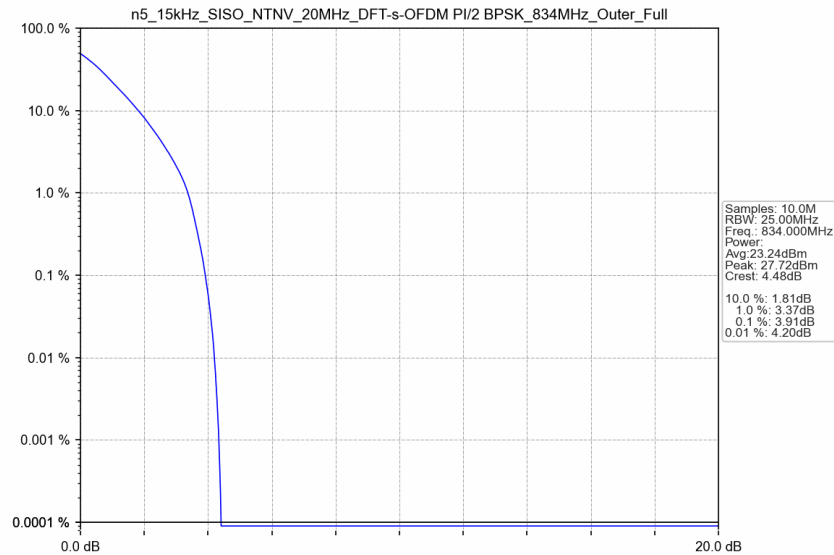
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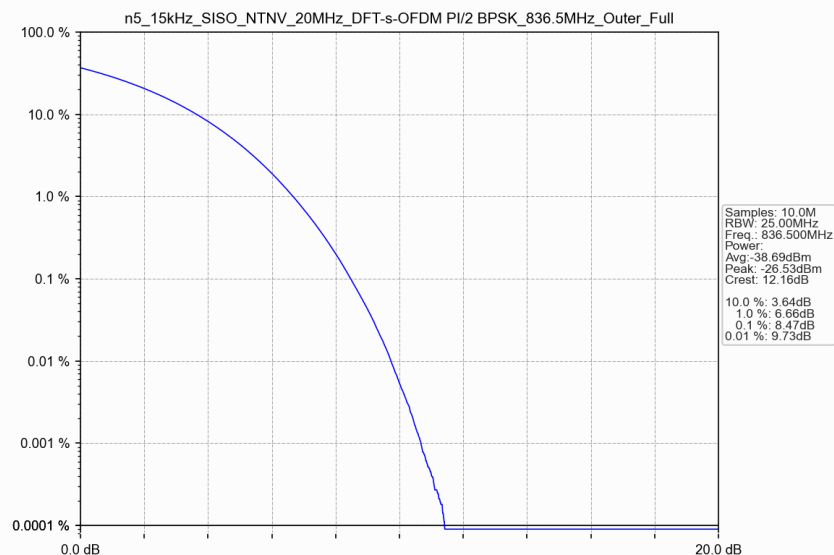
### 4.2 Test Graph

#### 4.2.1 15k\_SISO\_20MHz\_NTNV

n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_834MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_836.5MHz\_Outer\_Full



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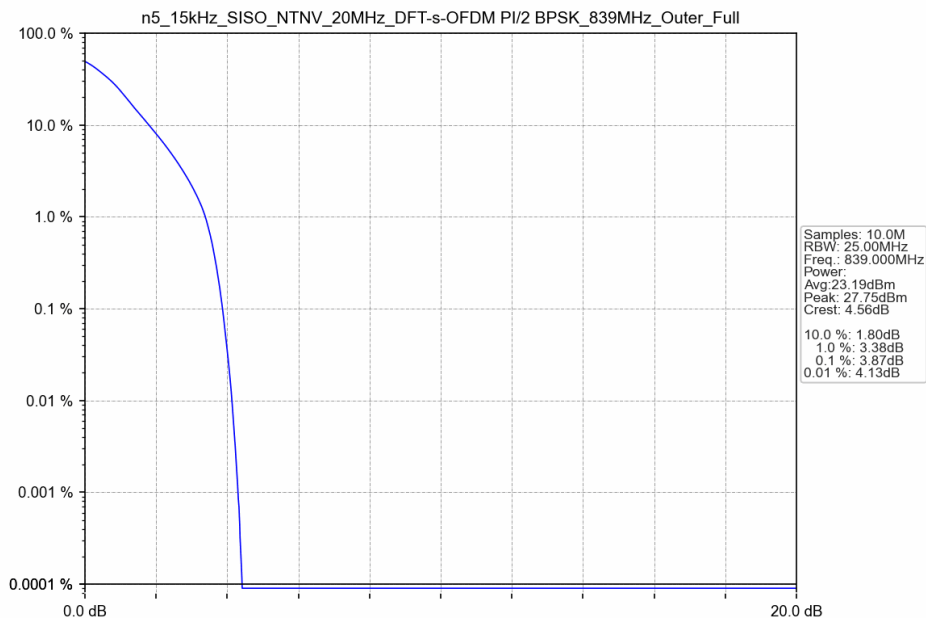
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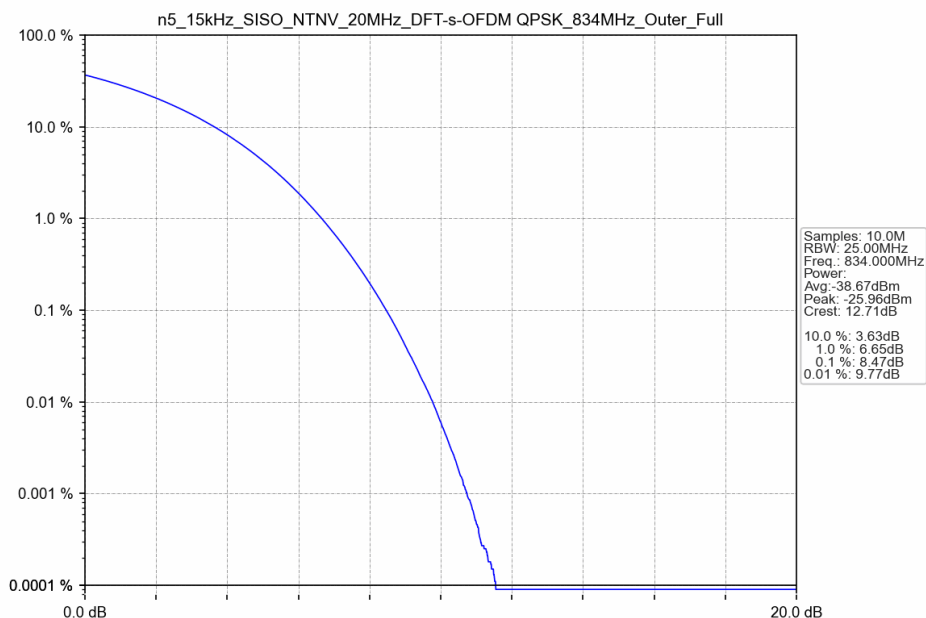
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_834MHz\_Outer\_Full

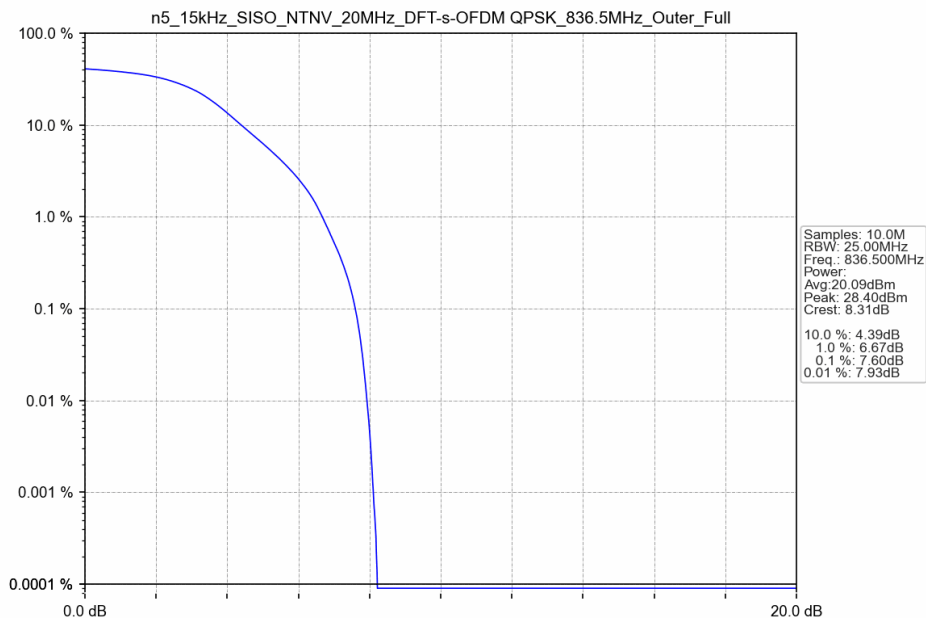


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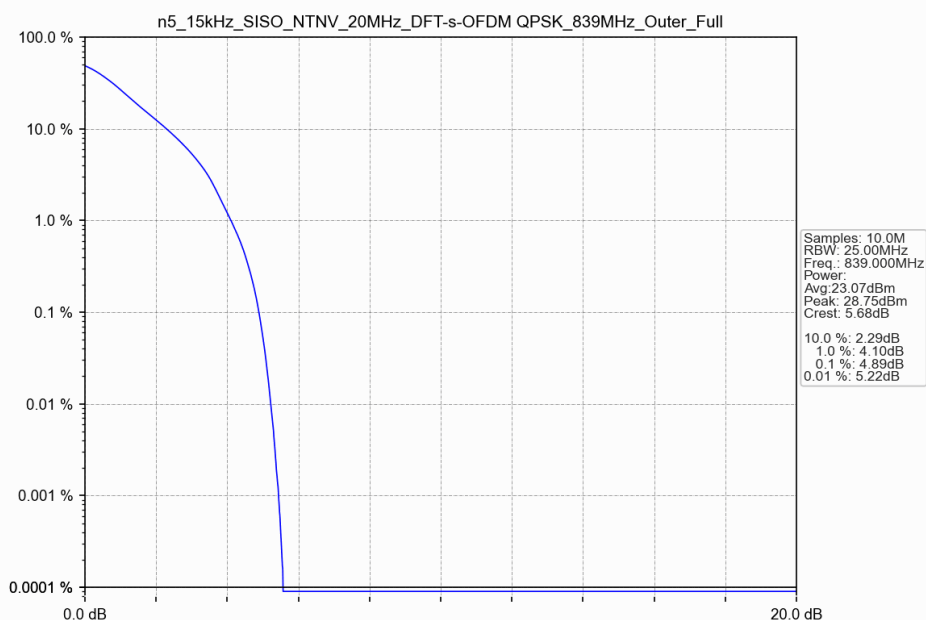
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_839MHz\_Outer\_Full

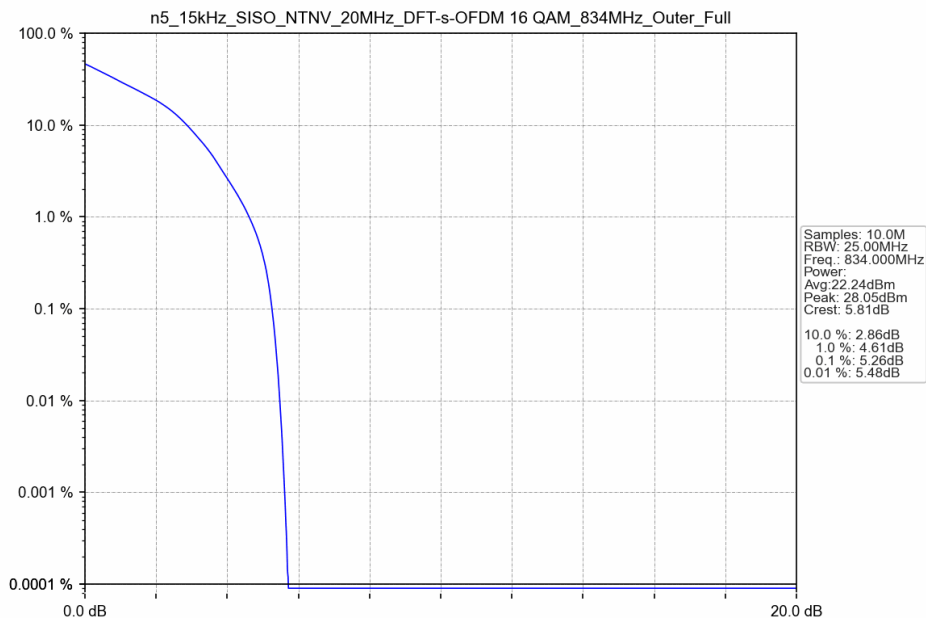


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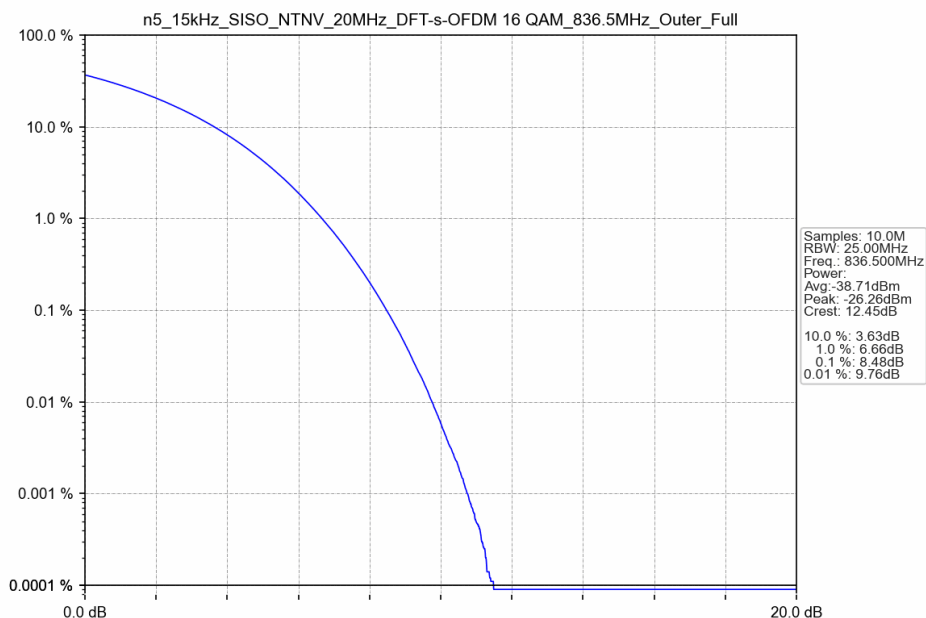
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 16 QAM\_836.5MHz\_Outer\_Full



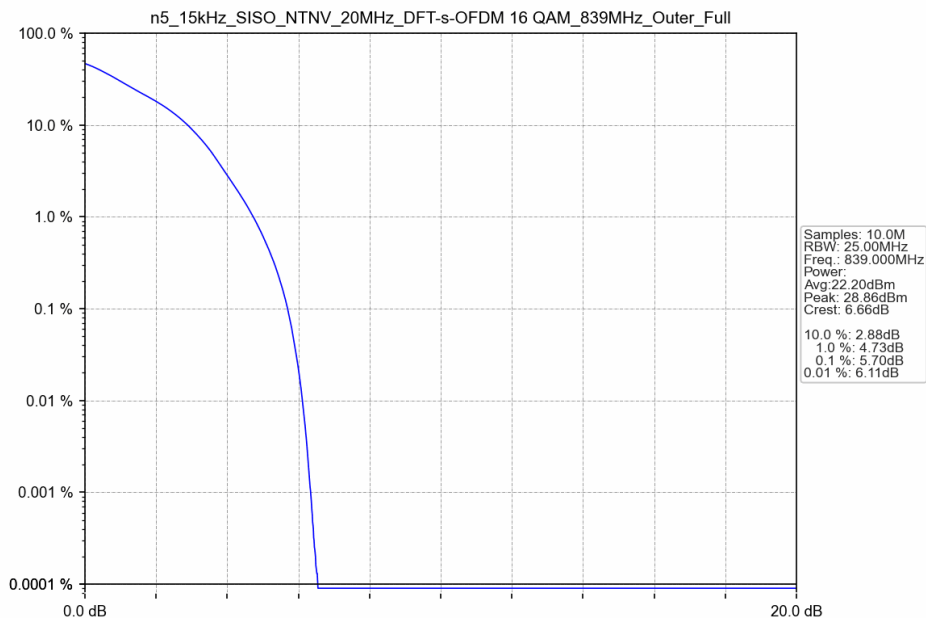
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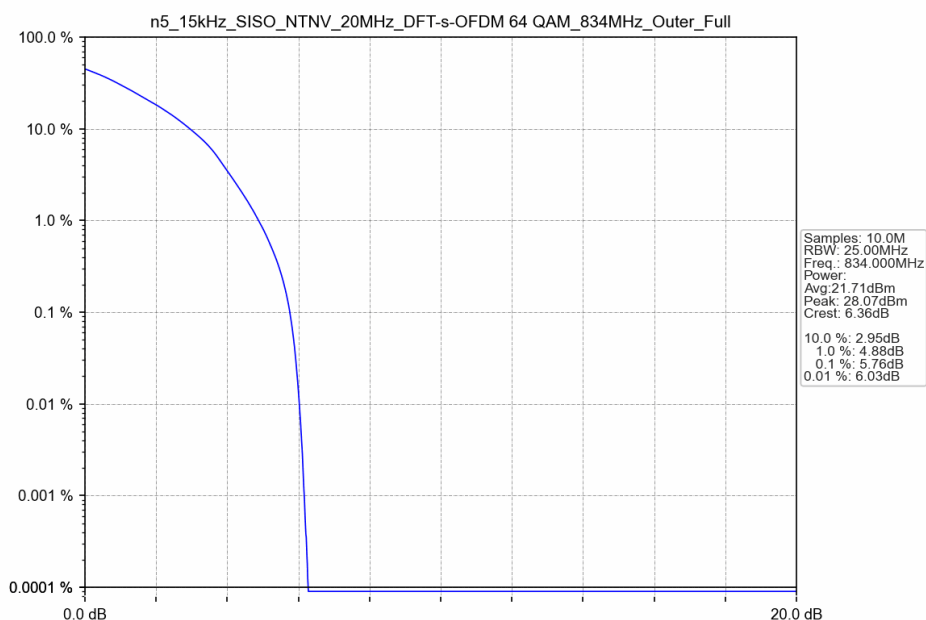
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n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 16 QAM\_839MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 64 QAM\_834MHz\_Outer\_Full

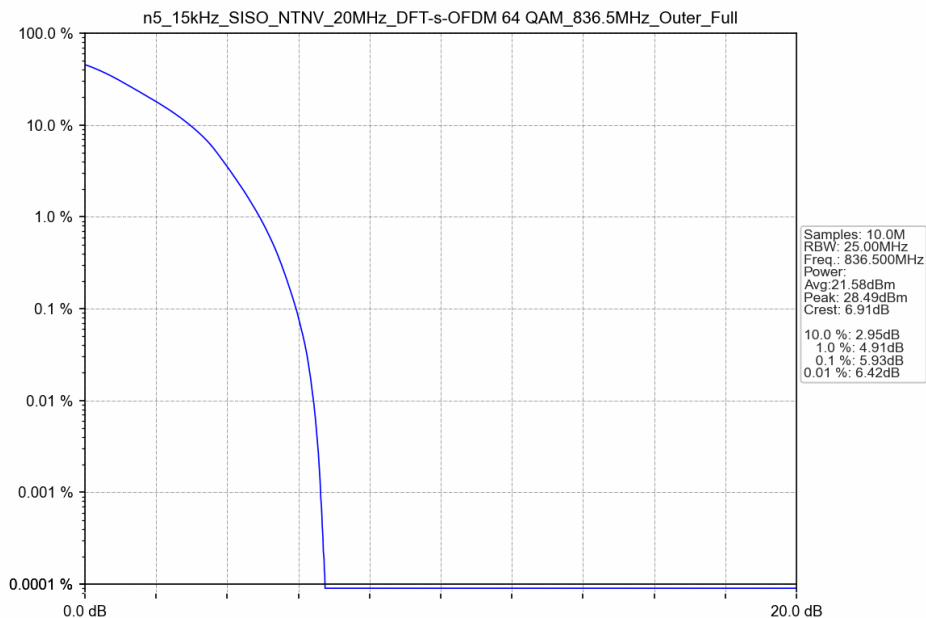


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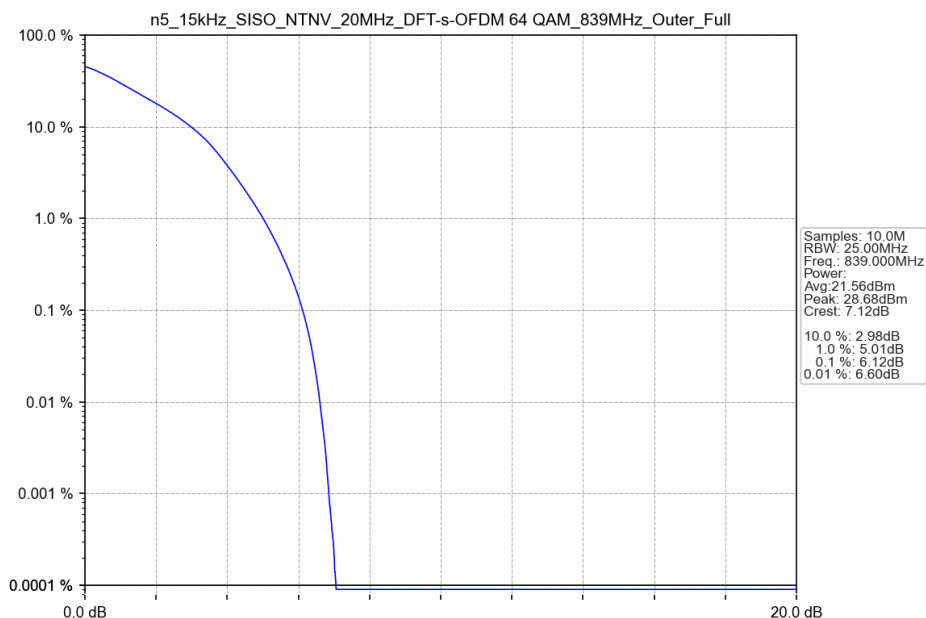
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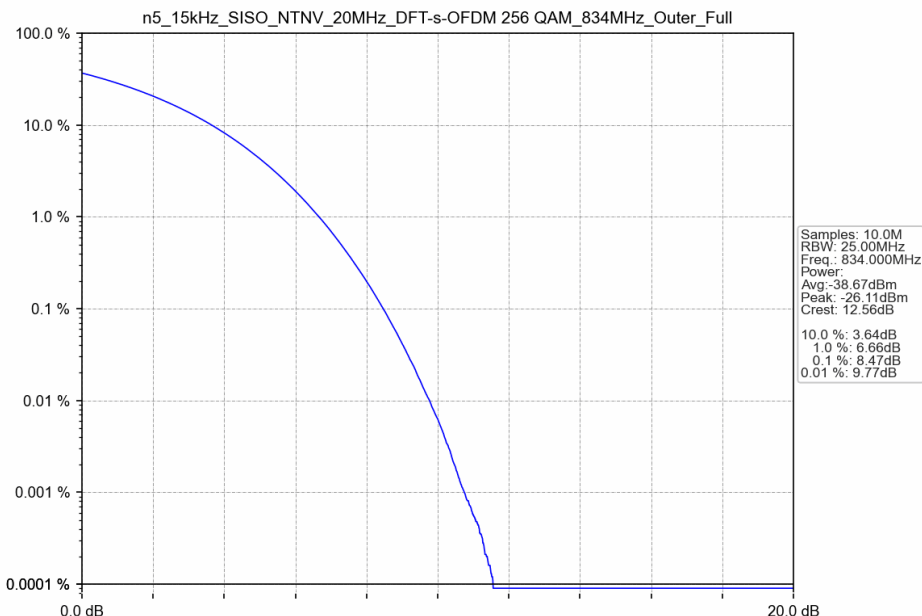


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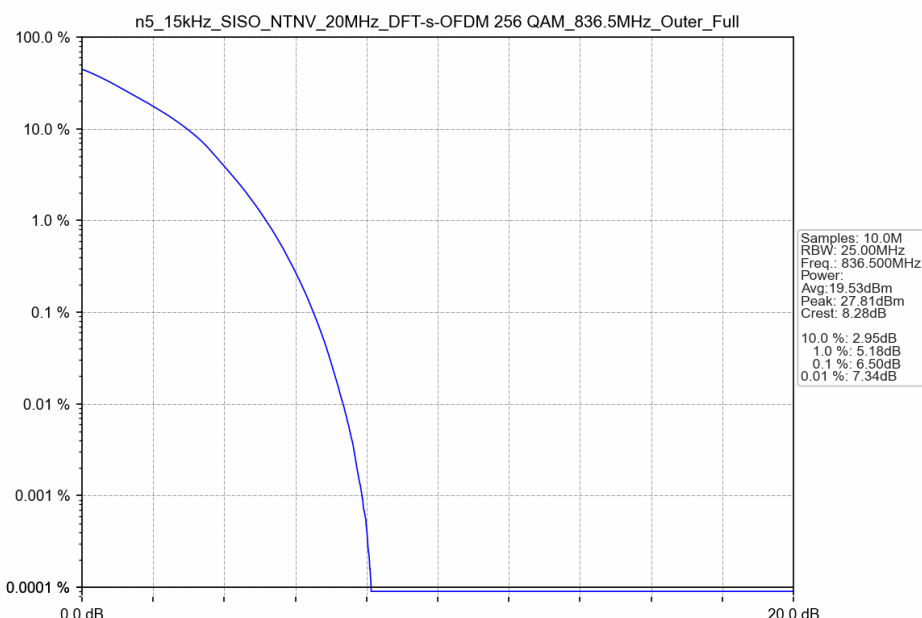
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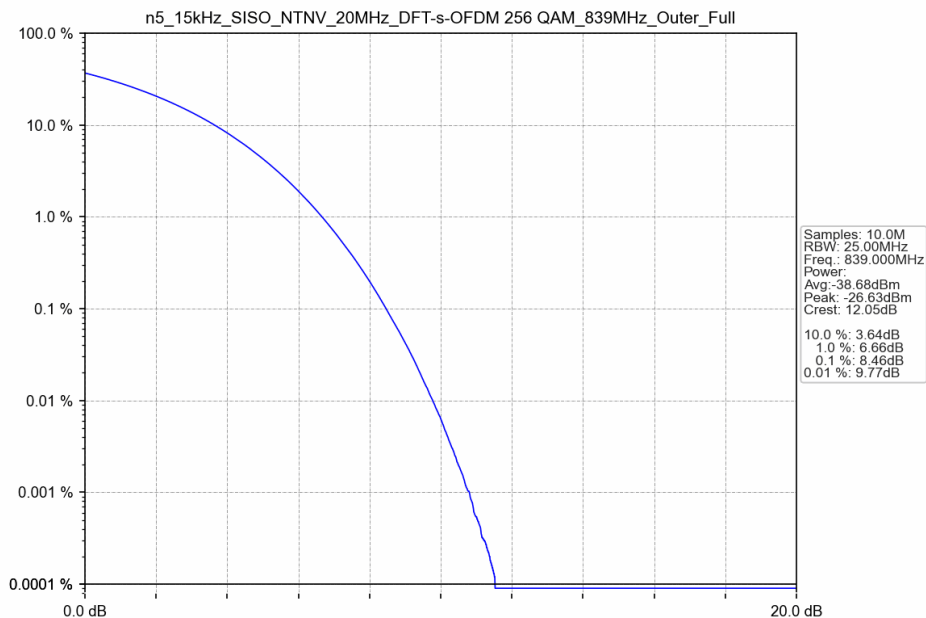


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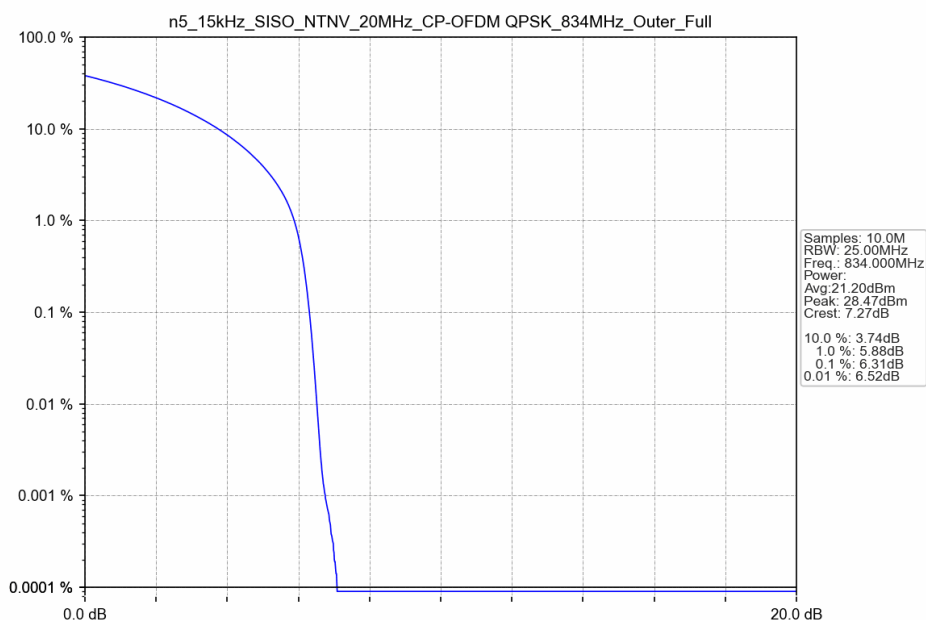
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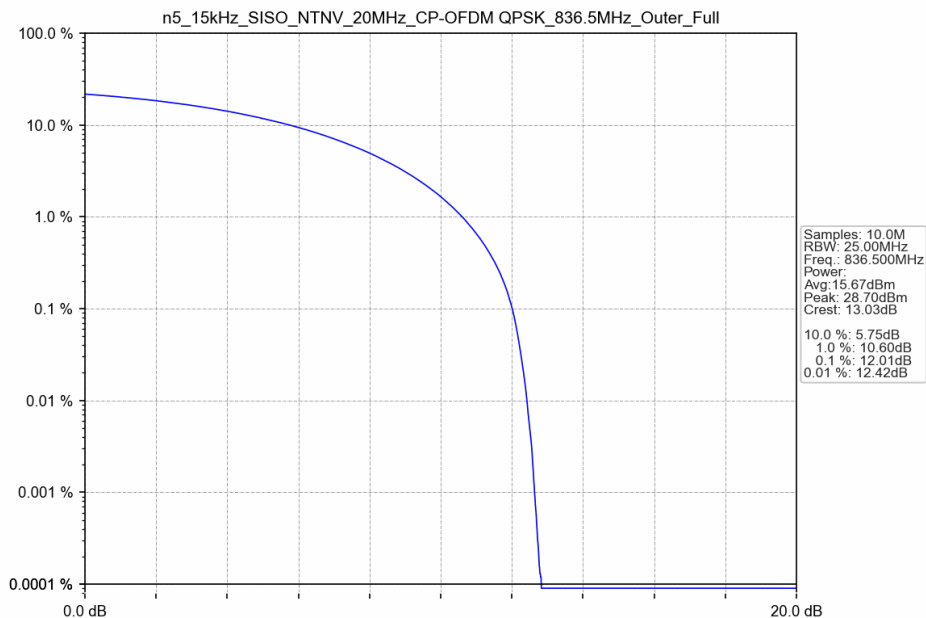


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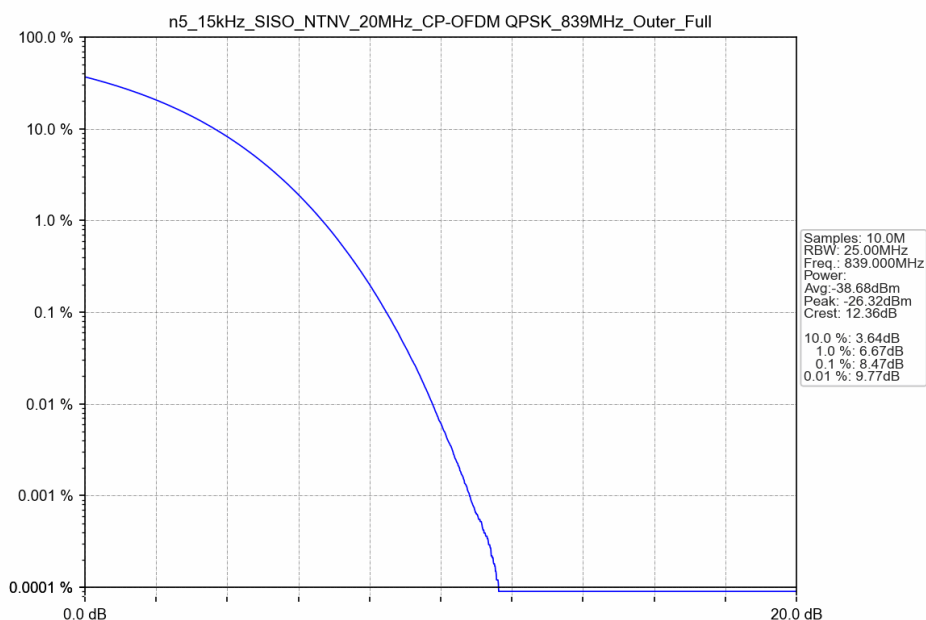
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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_836.5MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_839MHz\_Outer\_Full



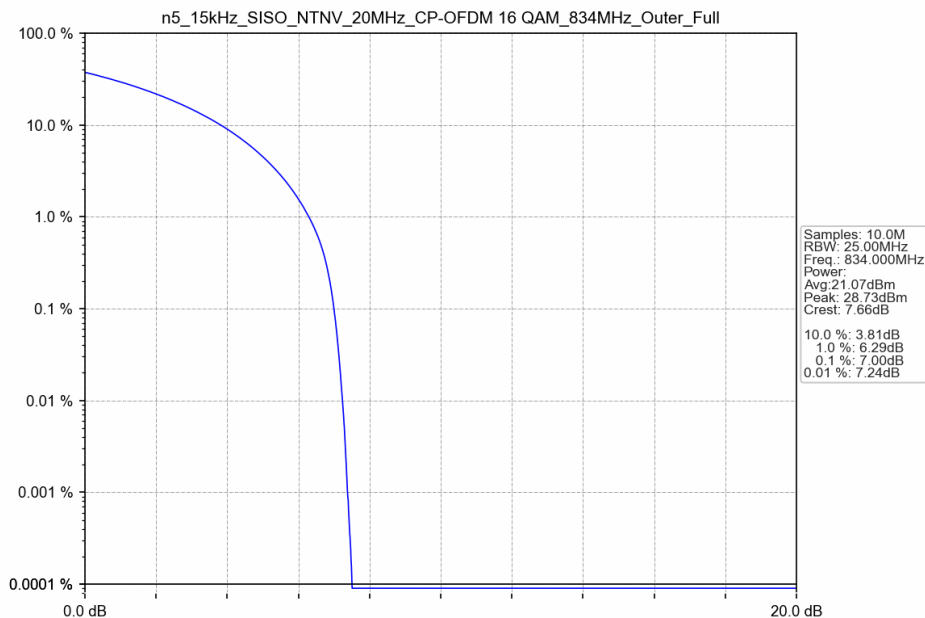
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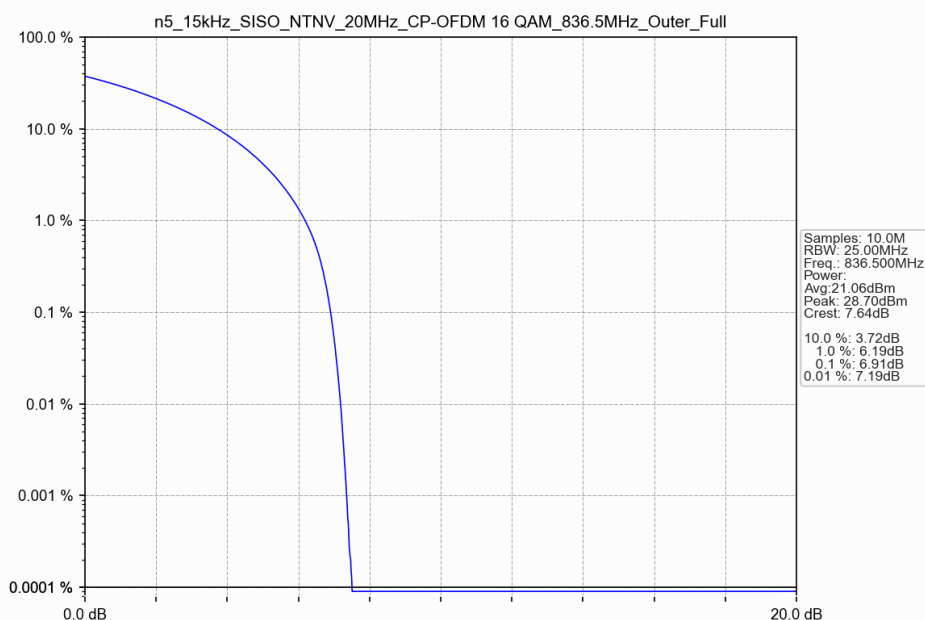
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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_834MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_836.5MHz\_Outer\_Full

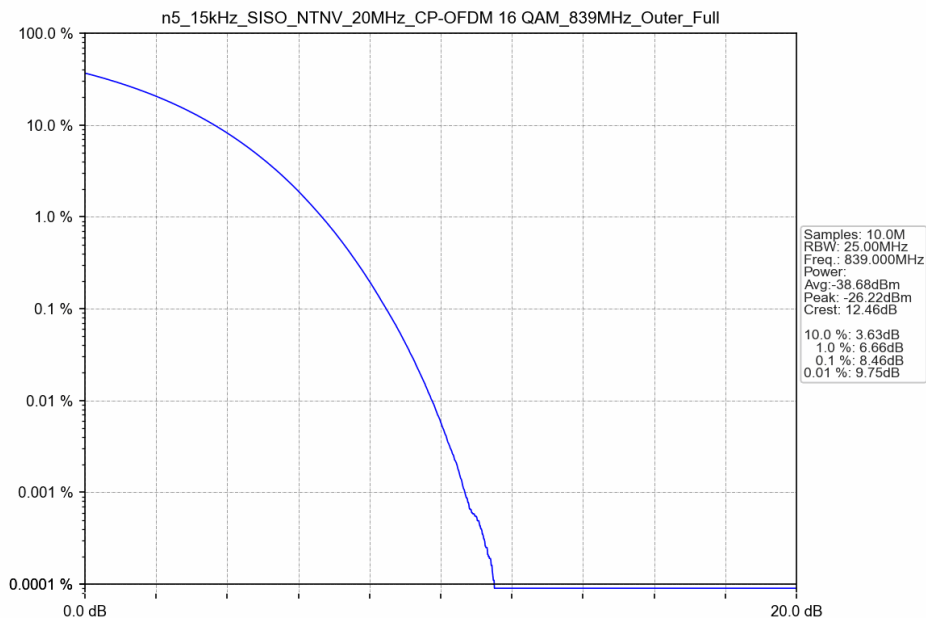


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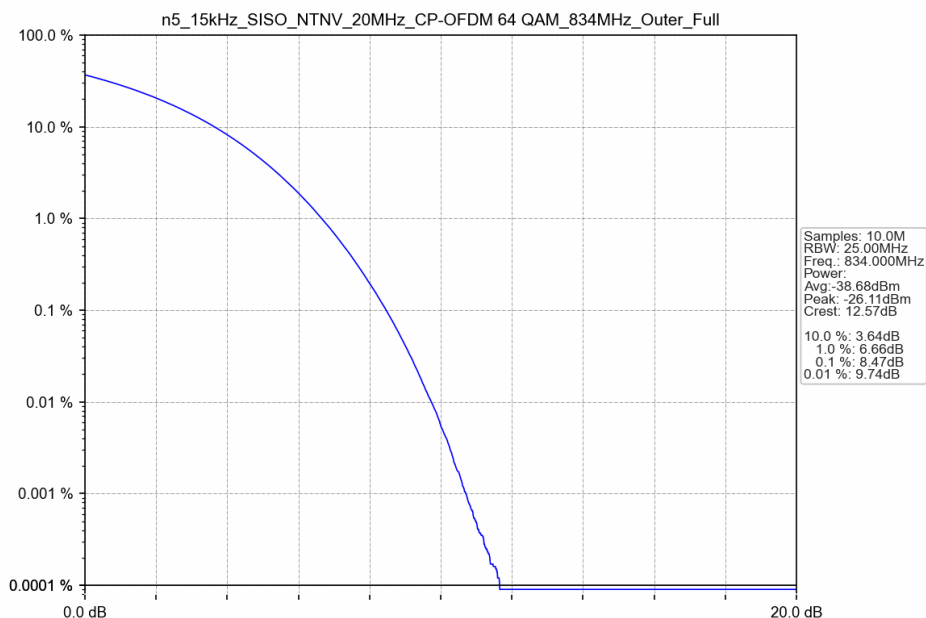
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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_839MHz\_Outer\_Full

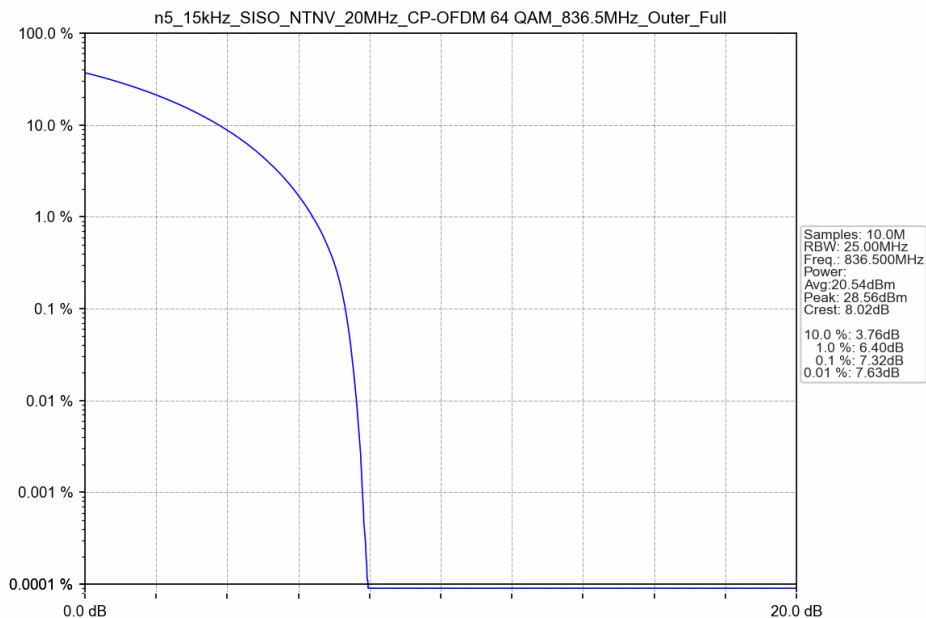


n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_834MHz\_Outer\_Full

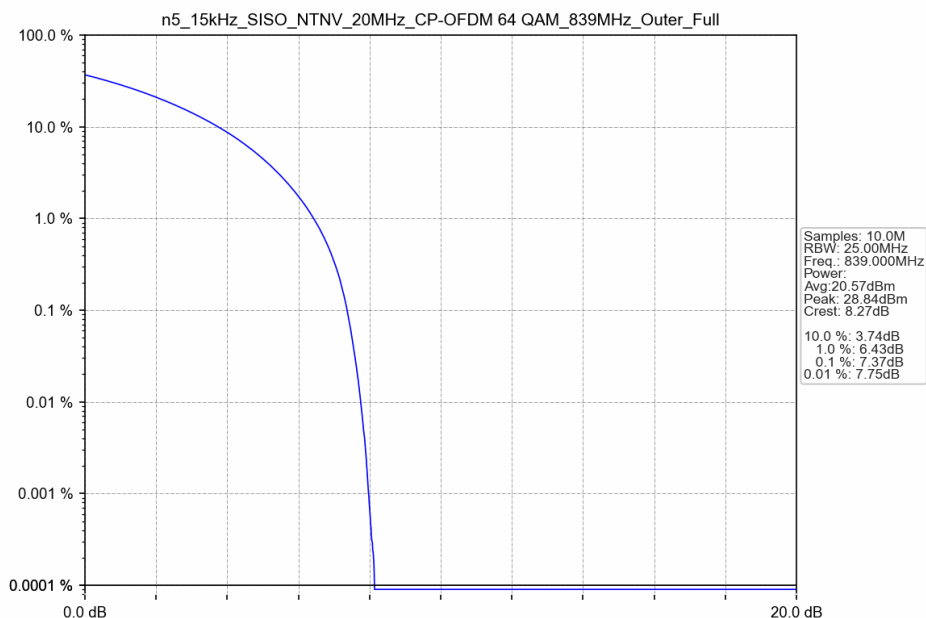


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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_836.5MHz\_Outer\_Full

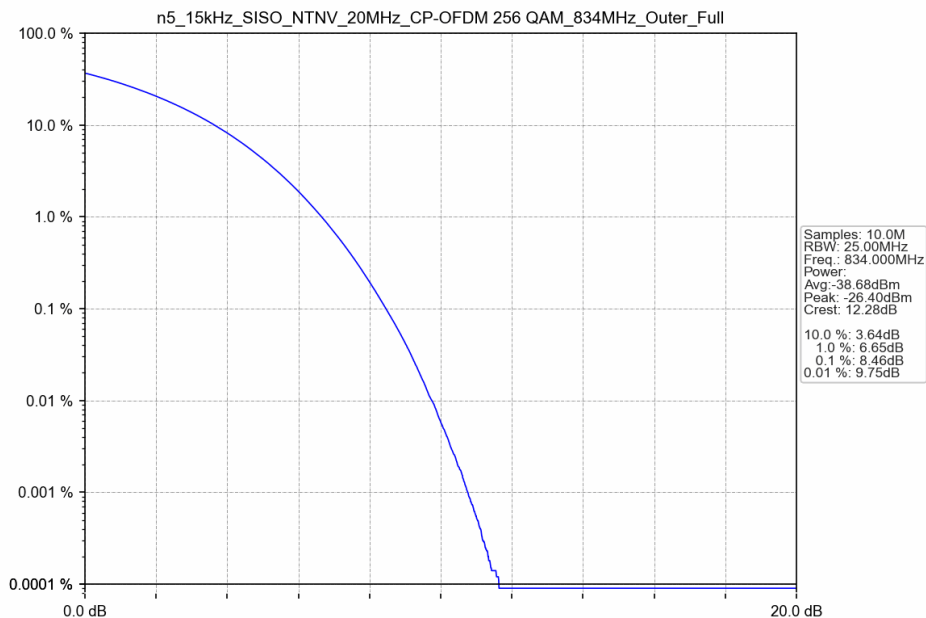


n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_839MHz\_Outer\_Full

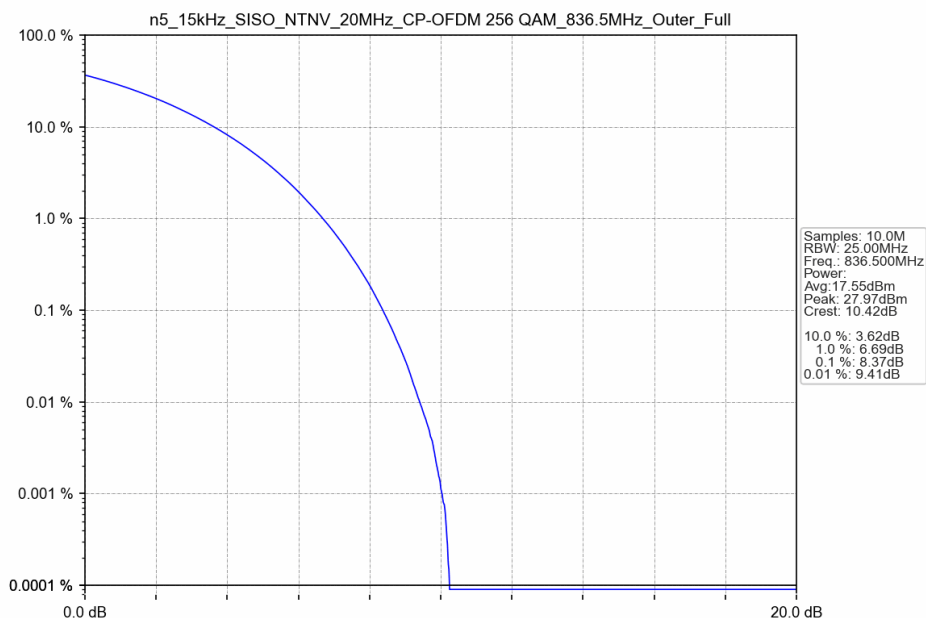


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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_834MHz\_Outer\_Full



n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_836.5MHz\_Outer\_Full

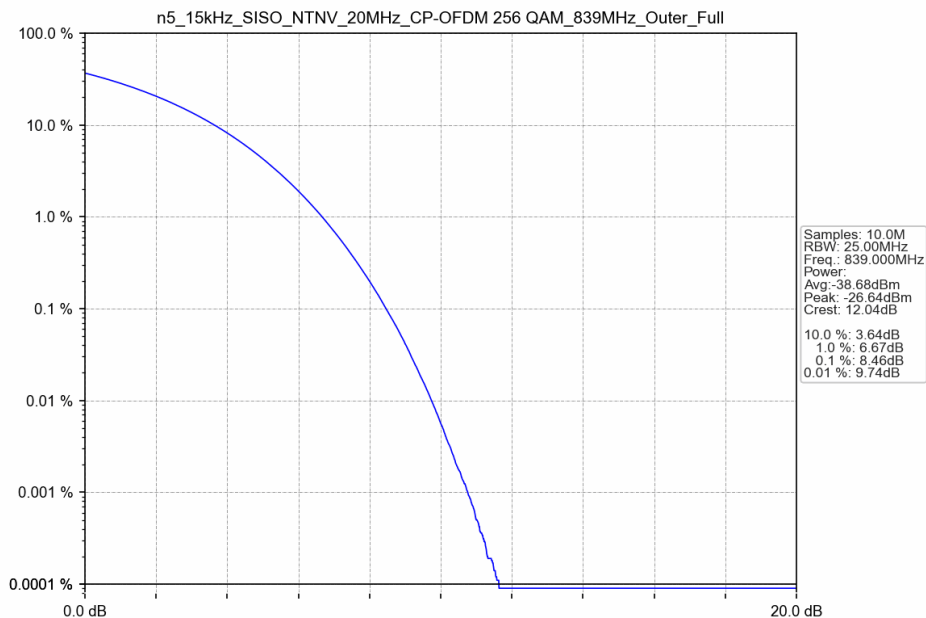


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n5\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_839MHz\_Outer\_Full



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## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 15k\_SISO\_5MHz\_NTNV

5G NR n5 SCS=15kHz SISO 5MHz NTN								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant1	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	826.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	836.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		846.5	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	826.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	836.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		846.5	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	826.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	836.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		846.5	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass

#### 5.1.2 15k\_SISO\_10MHz\_NTNV

5G NR n5 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2	829	Edge_1RB_Left	Refer To Test Graph				Pass



BPSK	836.5	Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
		Edge_1RB_Left	Refer To Test Graph	Pass
	844	Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass
DFT-s-OFDM QPSK	829	Edge_1RB_Left	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
	836.5	Edge_1RB_Left	Refer To Test Graph	Pass
		Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
CP-OFDM QPSK	829	Edge_1RB_Left	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
	836.5	Edge_1RB_Left	Refer To Test Graph	Pass
		Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
CP-OFDM QPSK	844	Edge_1RB_Left	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass

### 5.1.3 15k\_SISO\_15MHz\_NTNV

5G NR n5 SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	831.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	836.5	Edge_1RB_Left	Refer To Test Graph				Pass
	841.5	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	831.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	836.5	Edge_1RB_Left	Refer To Test Graph				Pass
	841.5	Edge_1RB_Right	Refer To Test Graph				Pass



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CP-OFDM QPSK	831.5	Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass
		Edge_1RB_Left	Refer To Test Graph	Pass
	836.5	Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Left	Refer To Test Graph	Pass
		Edge_1RB_Left	Refer To Test Graph	Pass
	841.5	Edge_1RB_Right	Refer To Test Graph	Pass
		Outer_Full	Refer To Test Graph	Pass
		Inner_1RB_Right	Refer To Test Graph	Pass

### 5.1.4 15k\_SISO\_20MHz\_NTNV

5G NR n5 SCS=15kHz SISO 20MHz NTN								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant1	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	834	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	836.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		839	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	834	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	836.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		839	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	834	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	836.5	Edge_1RB_Left	Refer To Test Graph				Pass	
		839	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass



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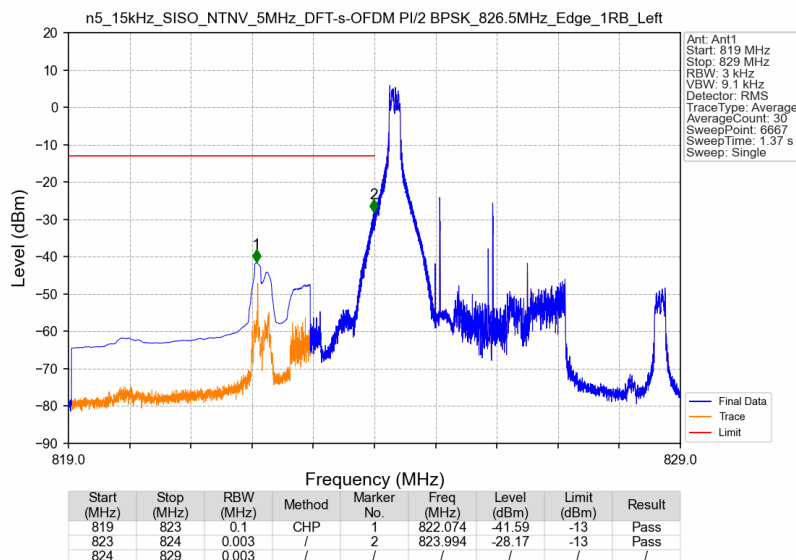
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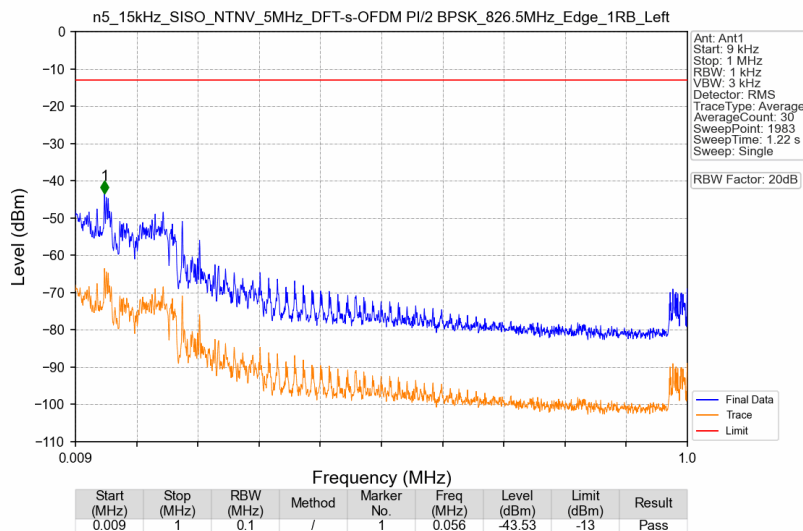
### 5.2 Test Graph

#### 5.2.1 15k\_SISO\_5MHz\_NTNV

n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_826.5MHz\_Edge\_1RB\_Left



n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_826.5MHz\_Edge\_1RB\_Left

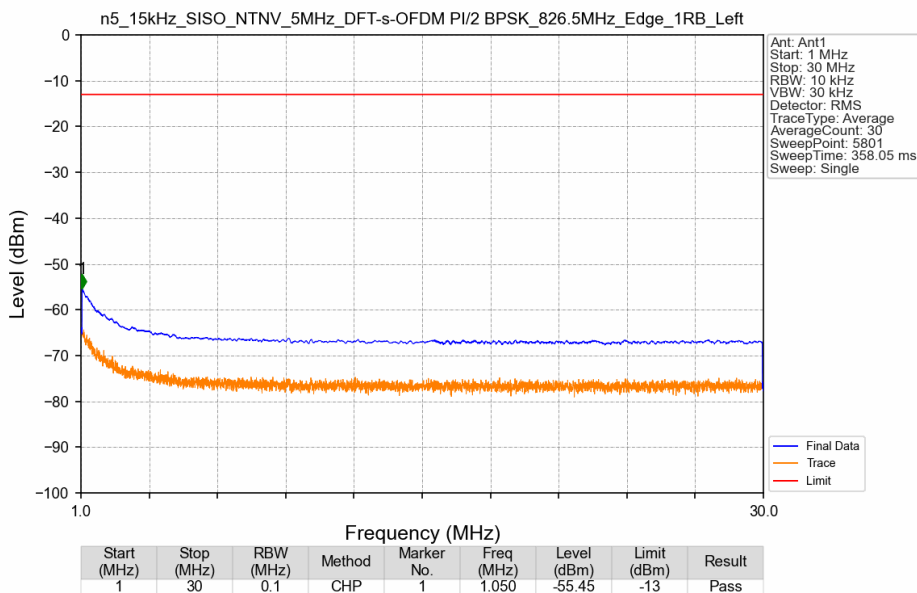


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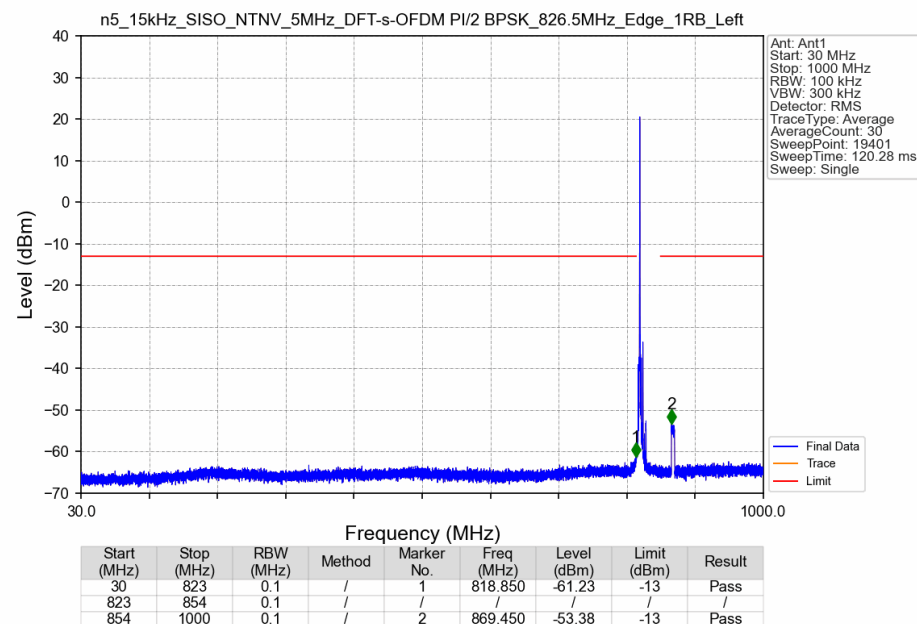
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_826.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_826.5MHz\_Edge\_1RB\_Left



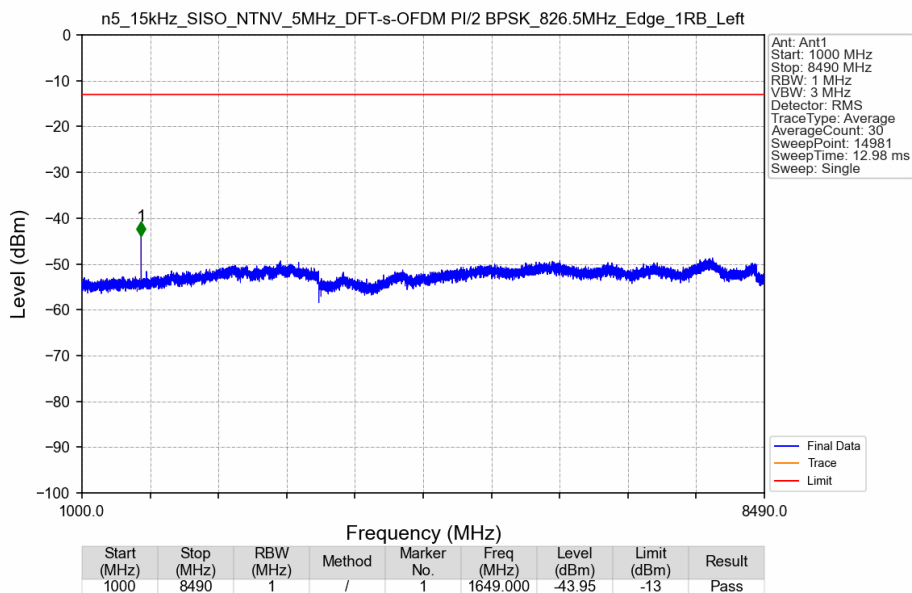
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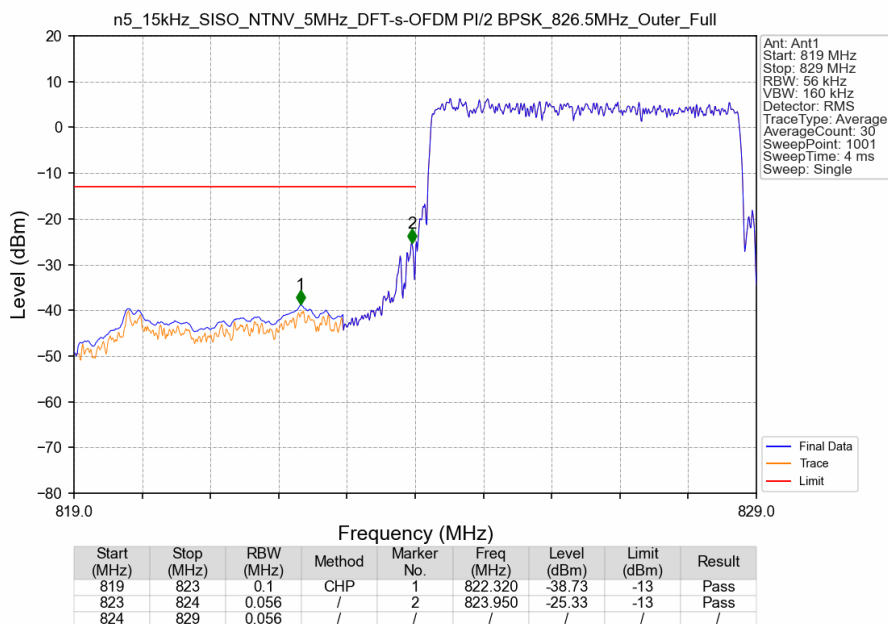
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_826.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_826.5MHz\_Outer\_Full

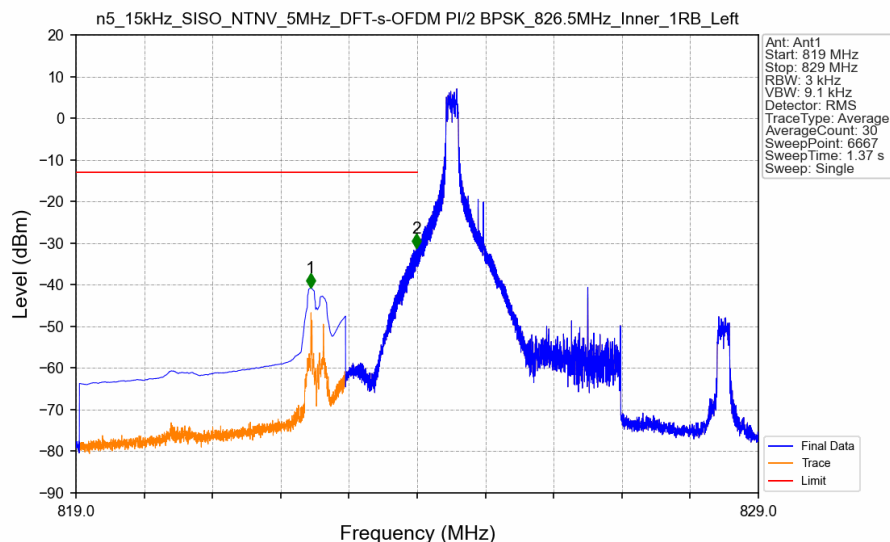


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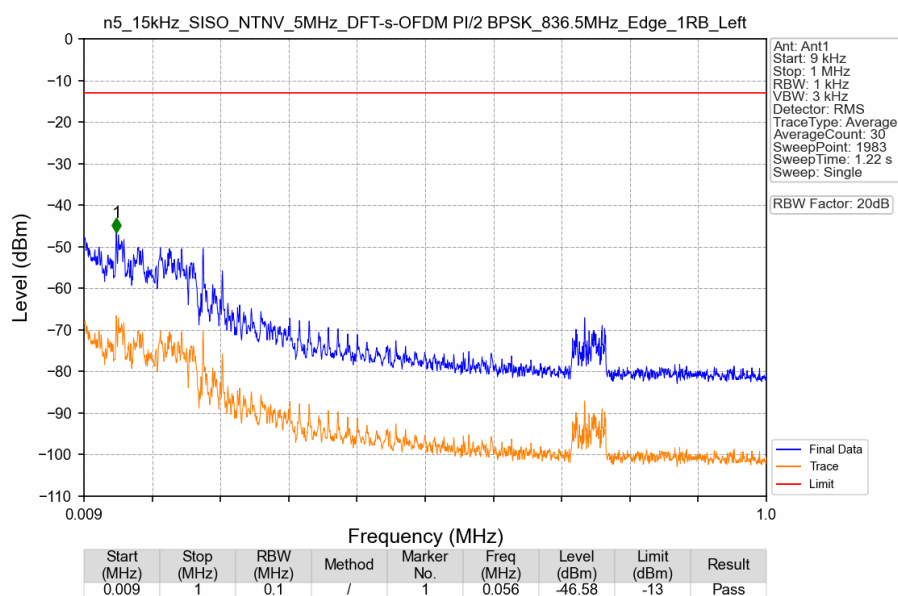
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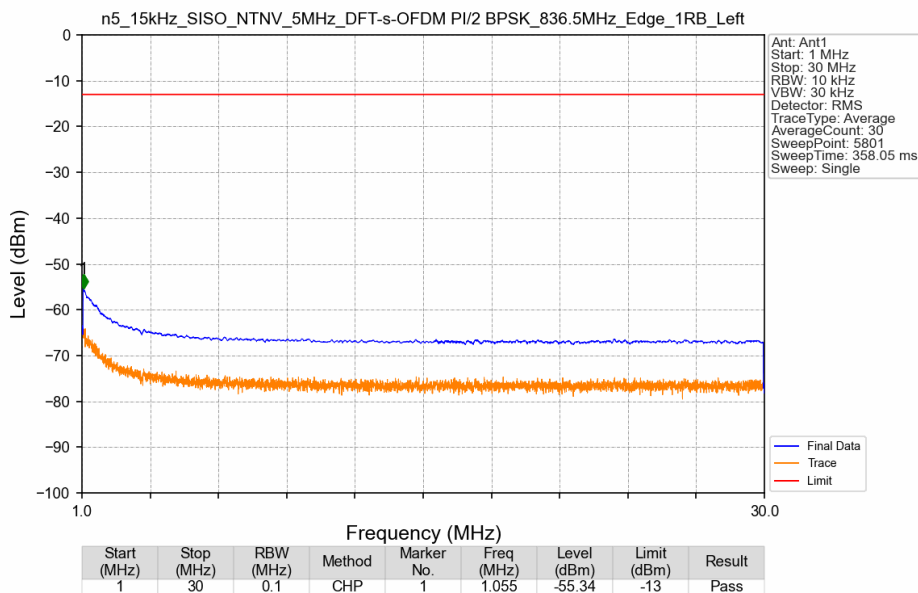
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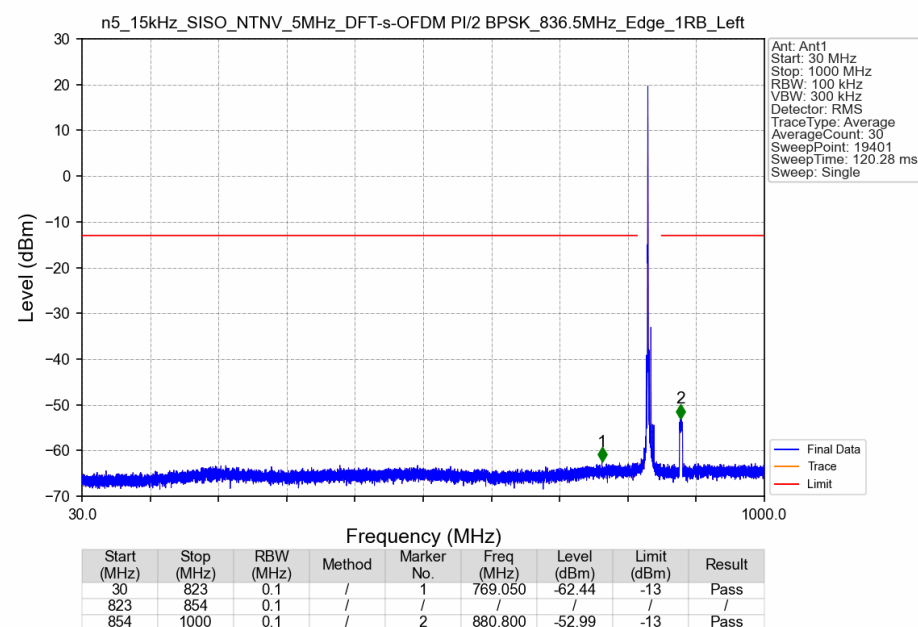
### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_836.5MHz\_Edge\_1RB\_Left



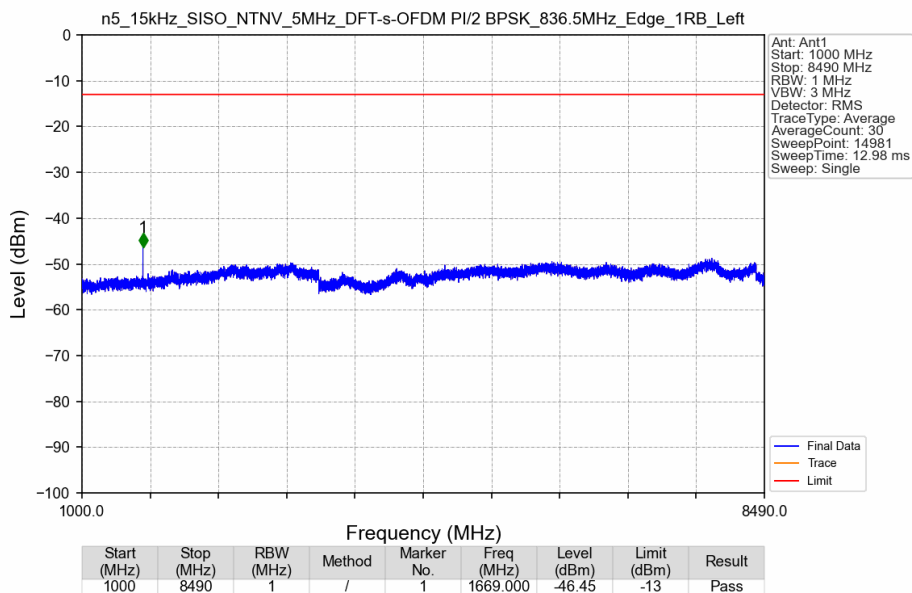
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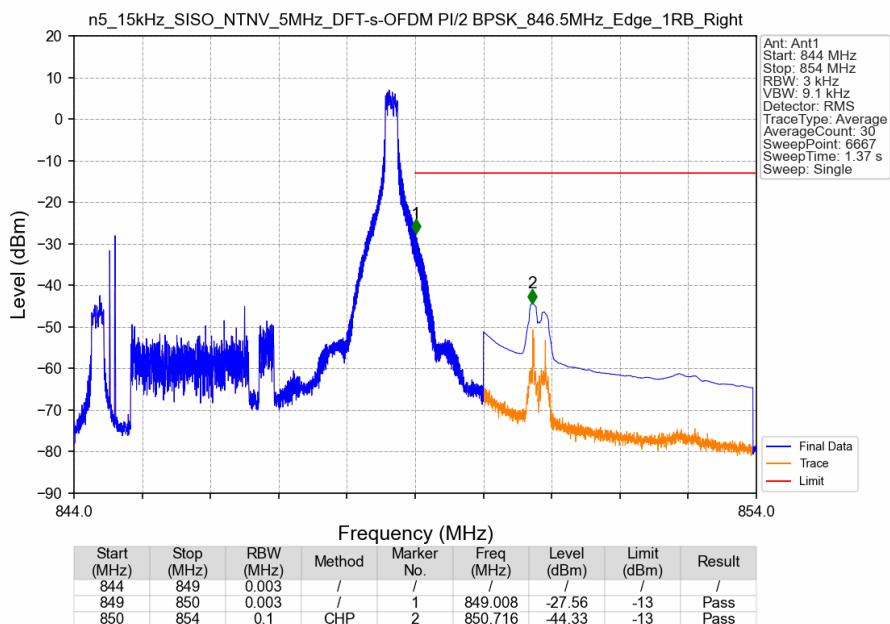
### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_836.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_836.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_846.5MHz\_Edge\_1RB\_Right

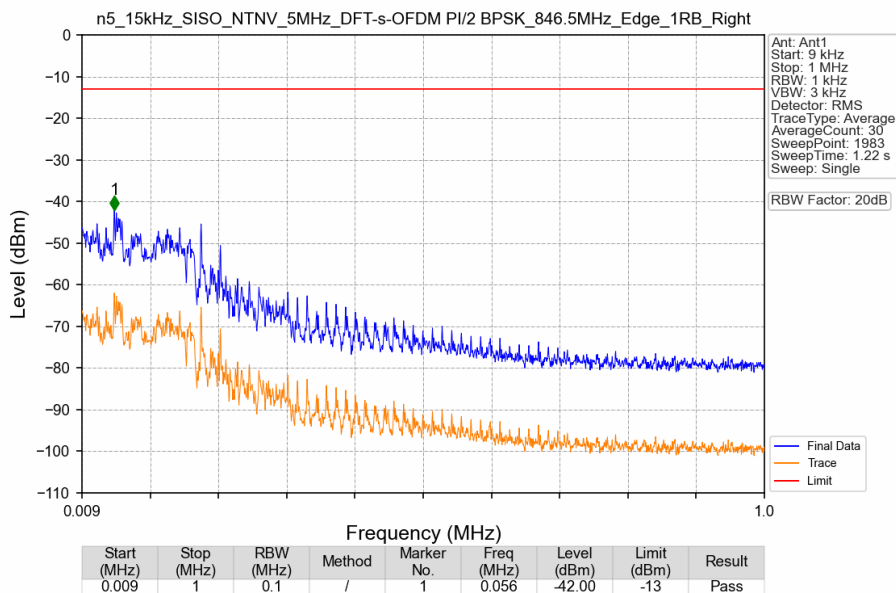


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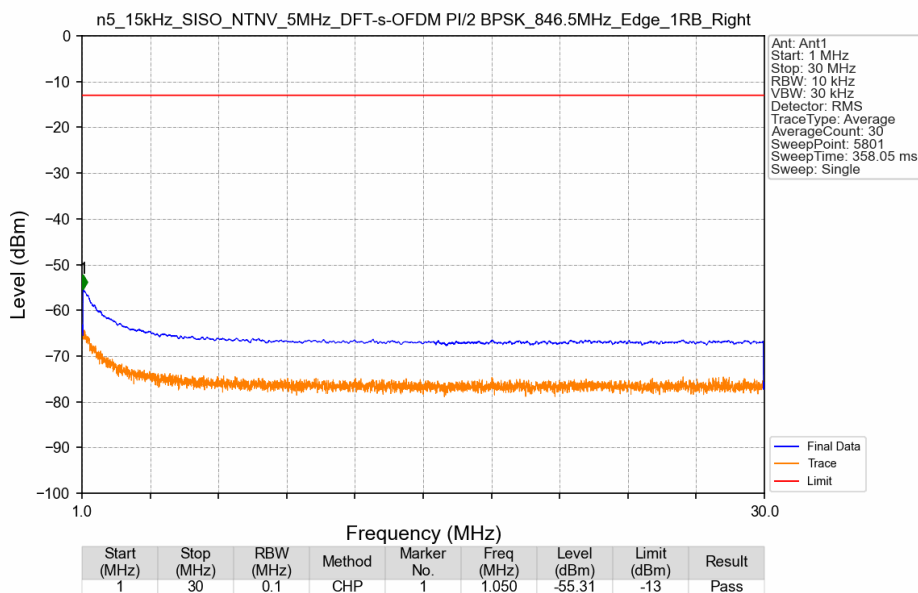
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_846.5MHz\_Edge\_1RB\_Right



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_846.5MHz\_Edge\_1RB\_Right



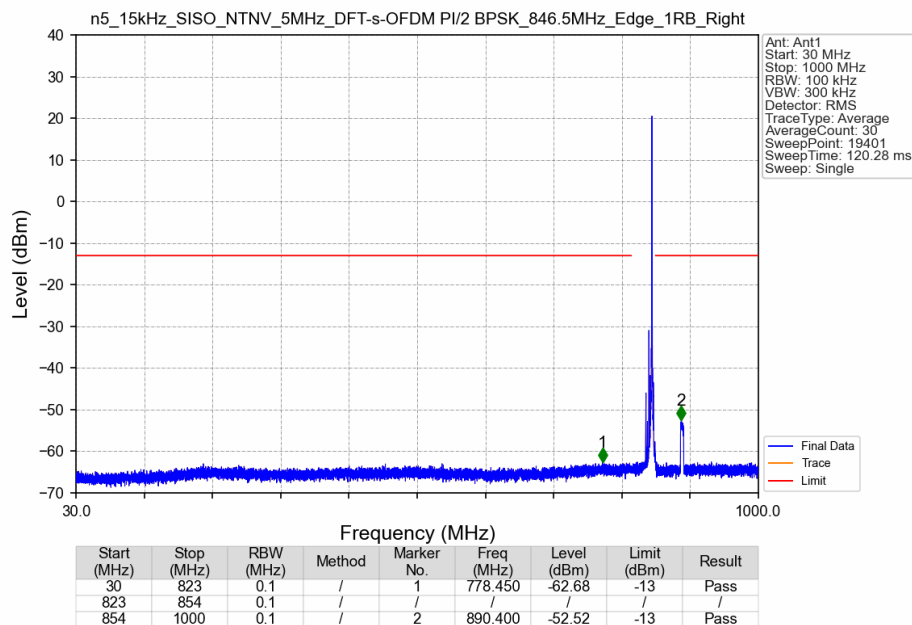
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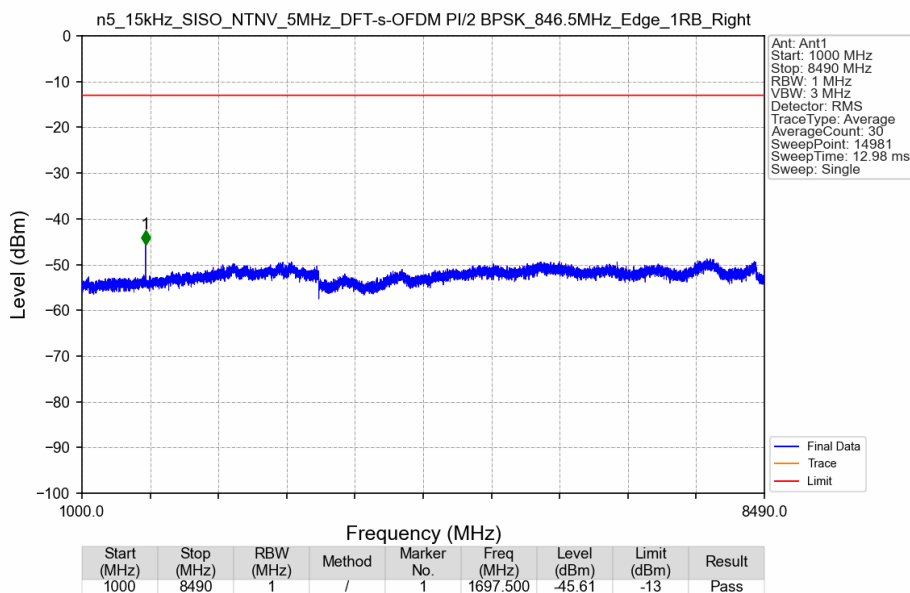
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_846.5MHz\_Edge\_1RB\_Right



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_846.5MHz\_Edge\_1RB\_Right

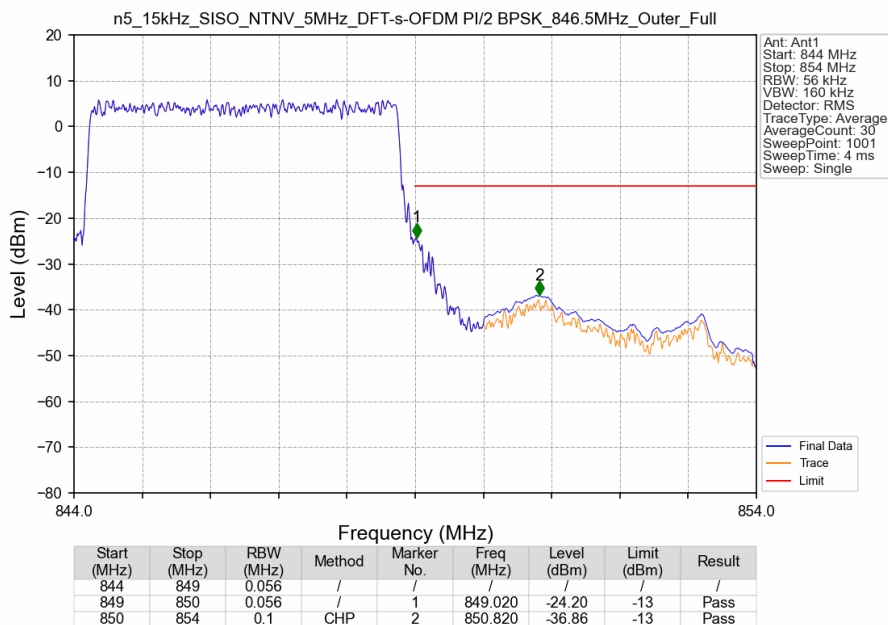


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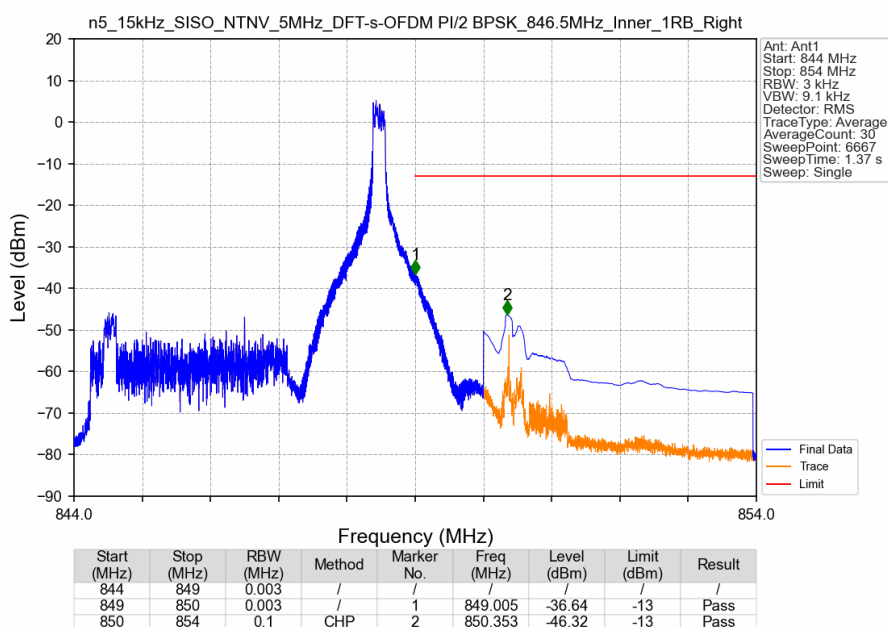
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_846.5MHz\_Outer\_Full



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_846.5MHz\_Inner\_1RB\_Right

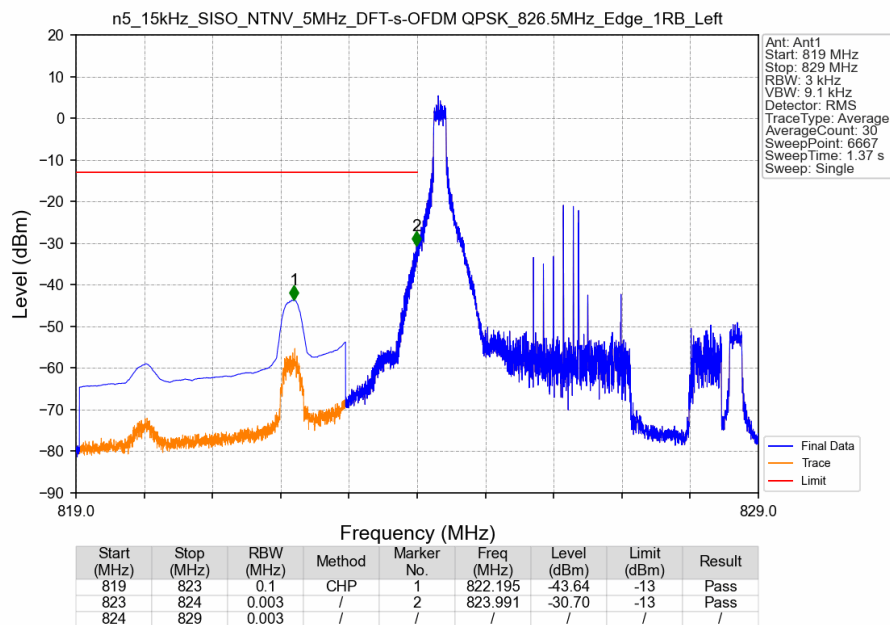


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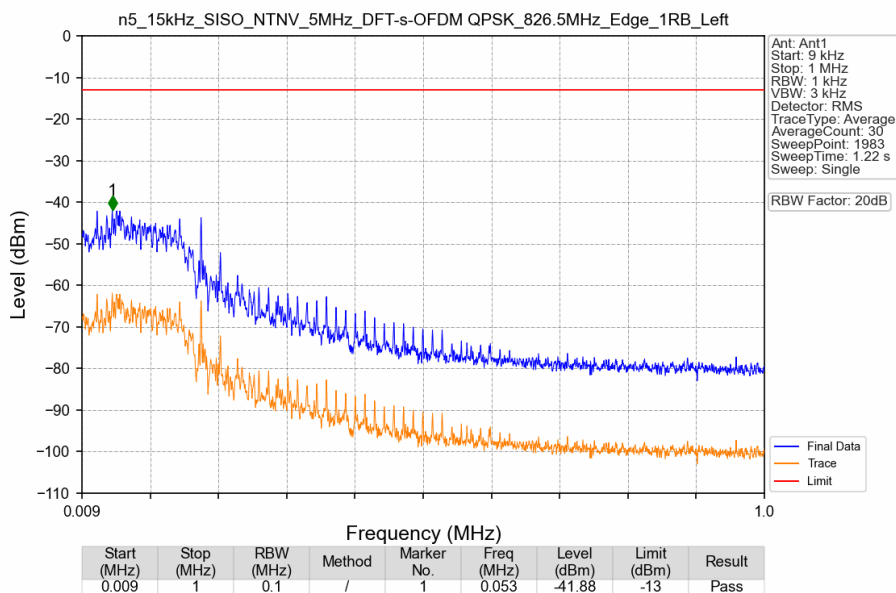
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_826.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_826.5MHz\_Edge\_1RB\_Left

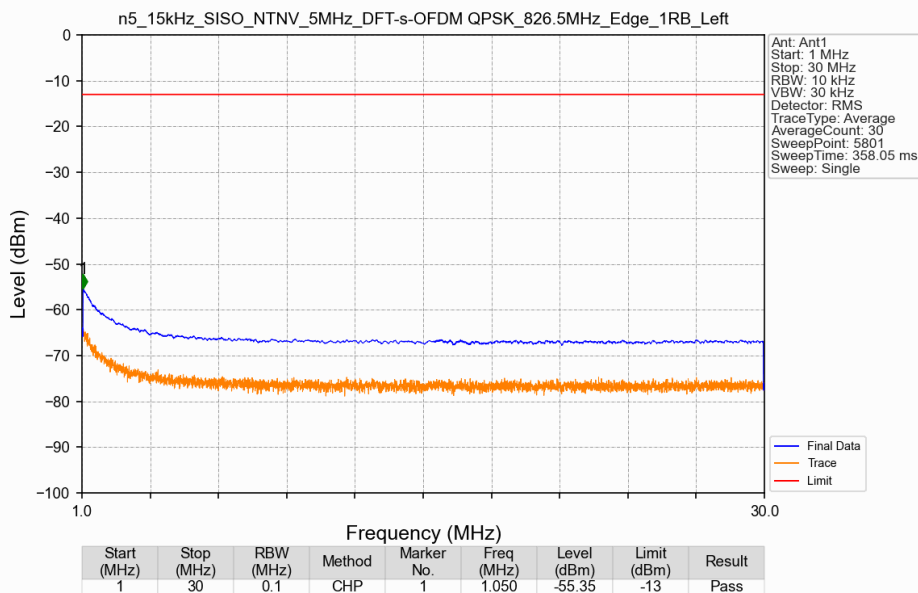


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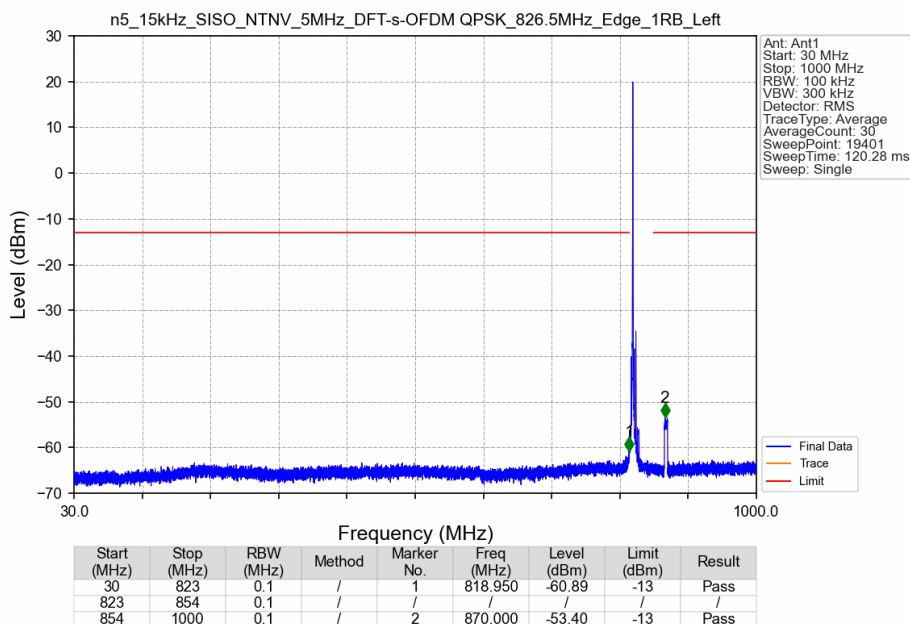
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n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_826.5MHz\_Edge\_1RB\_Left



n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_826.5MHz\_Edge\_1RB\_Left

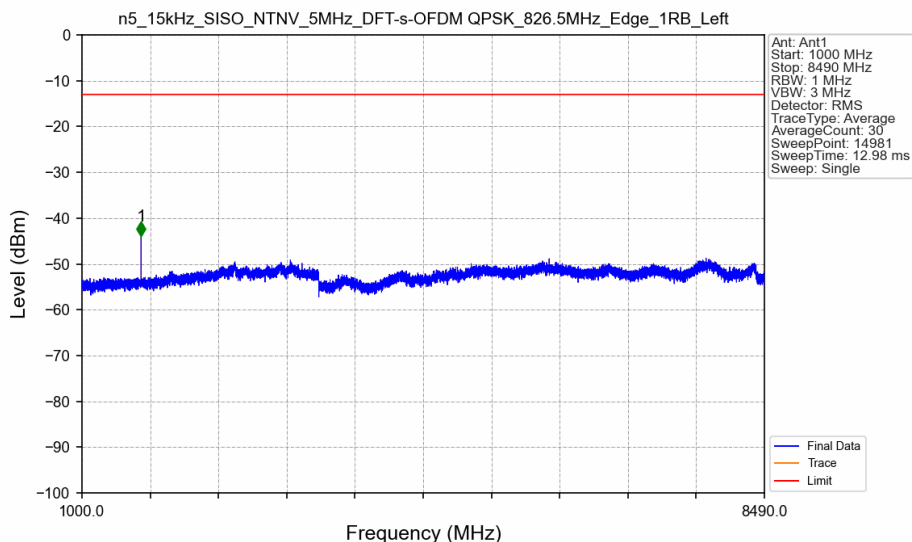


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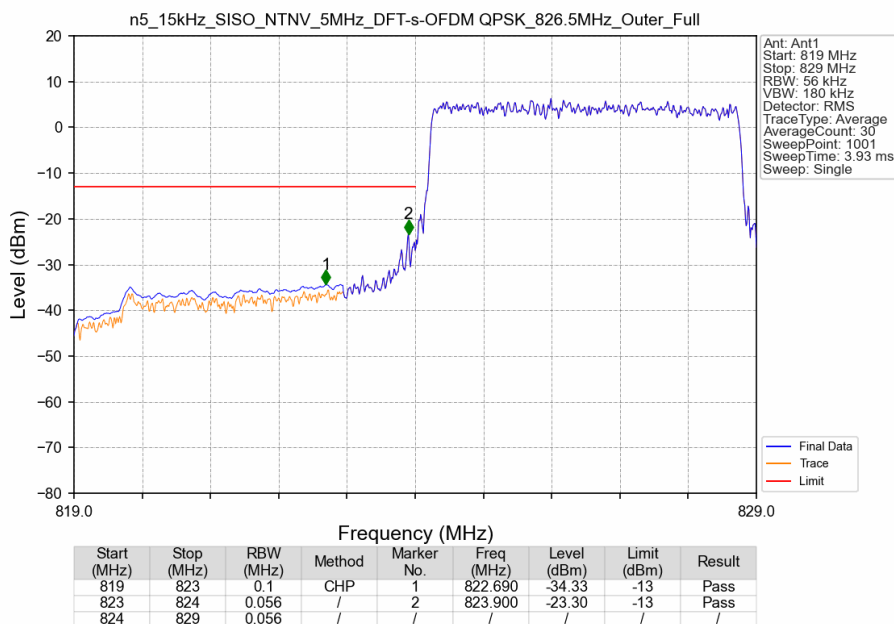
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_826.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_826.5MHz\_Outer\_Full



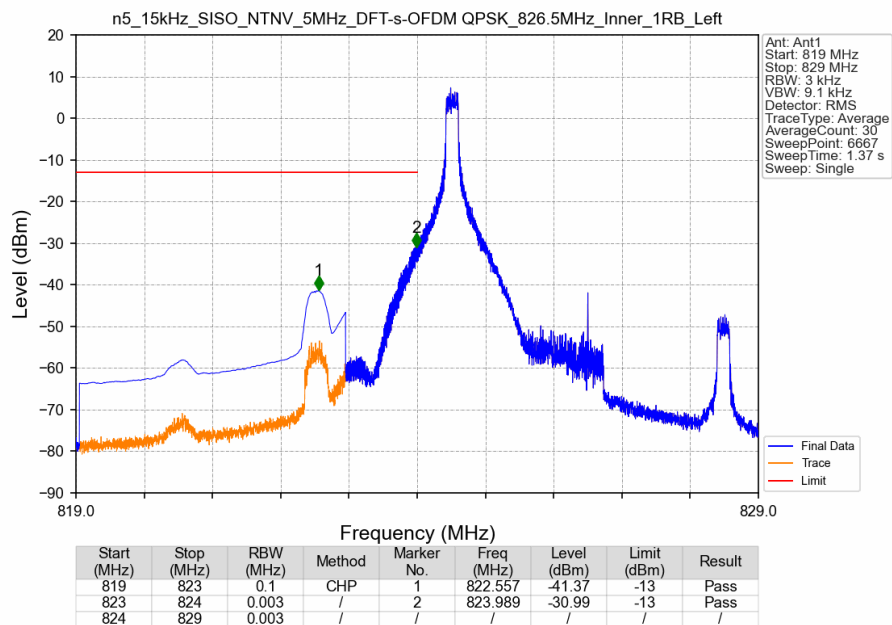
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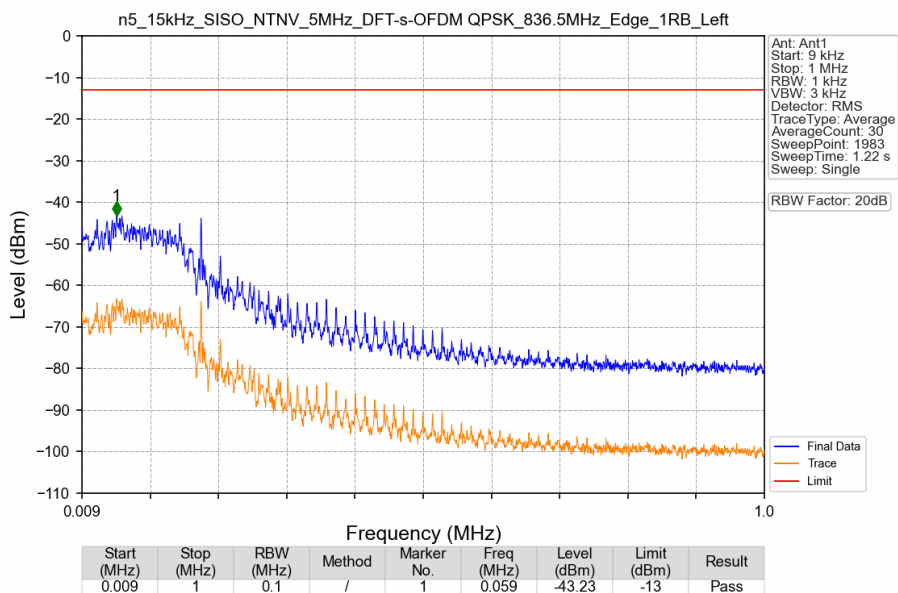
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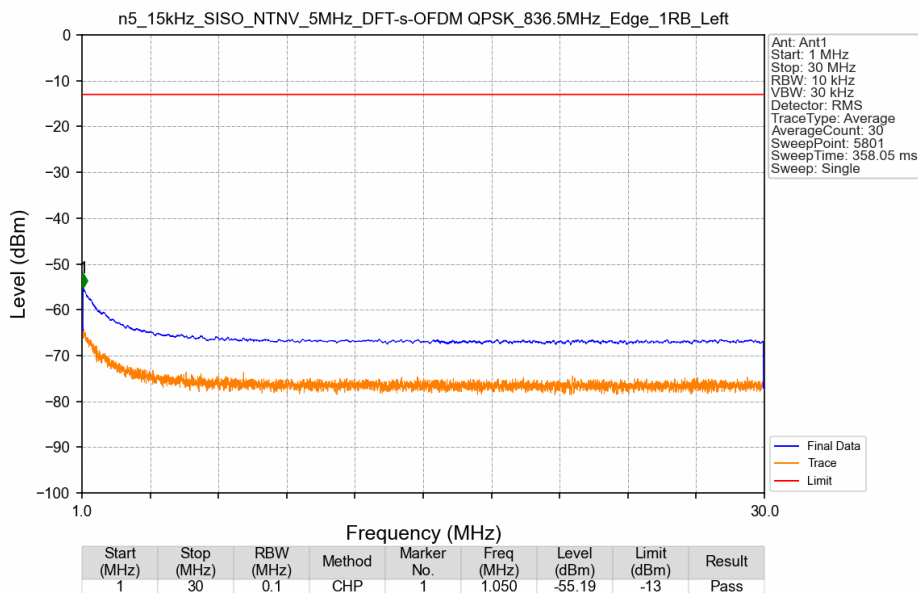
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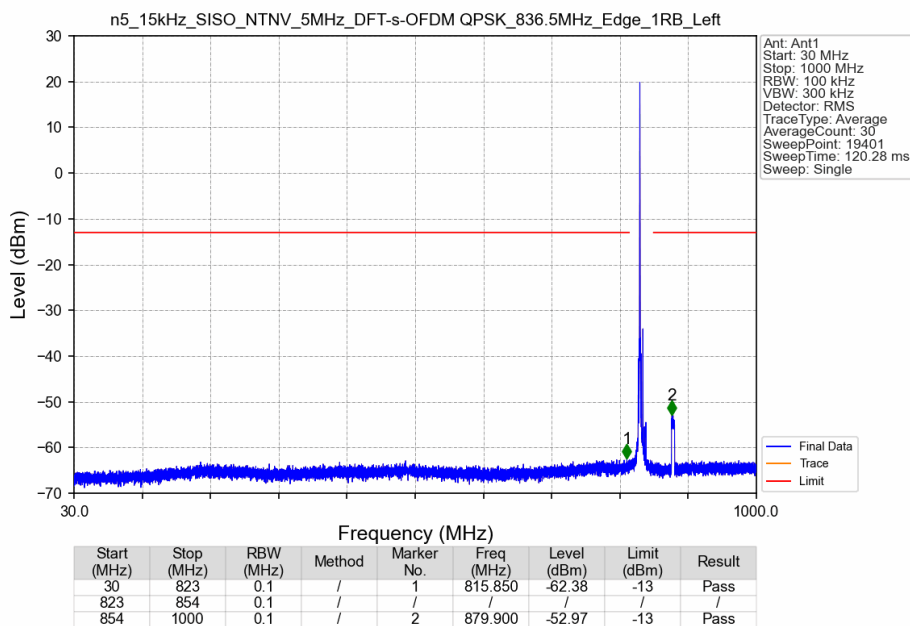
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n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_836.5MHz\_Edge\_1RB\_Left



n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_836.5MHz\_Edge\_1RB\_Left

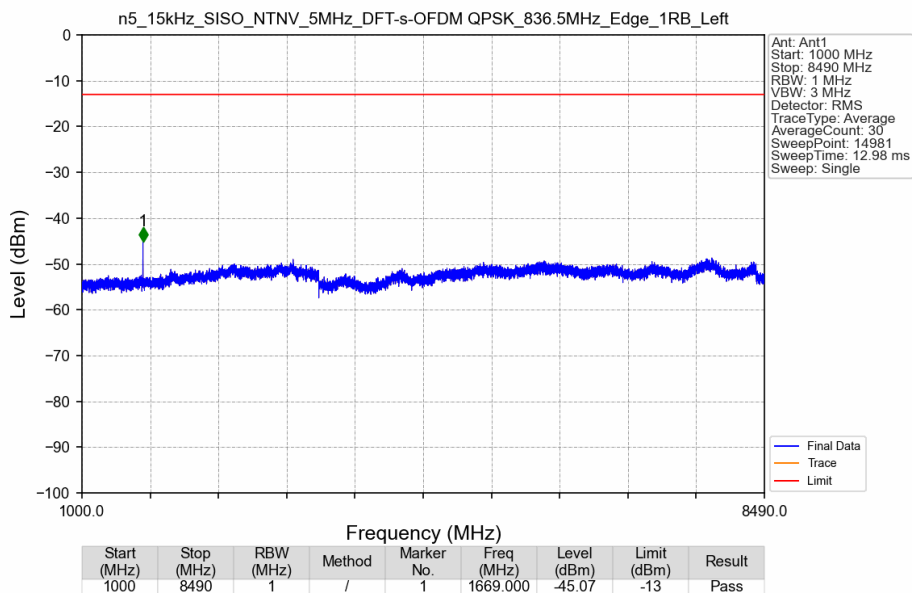


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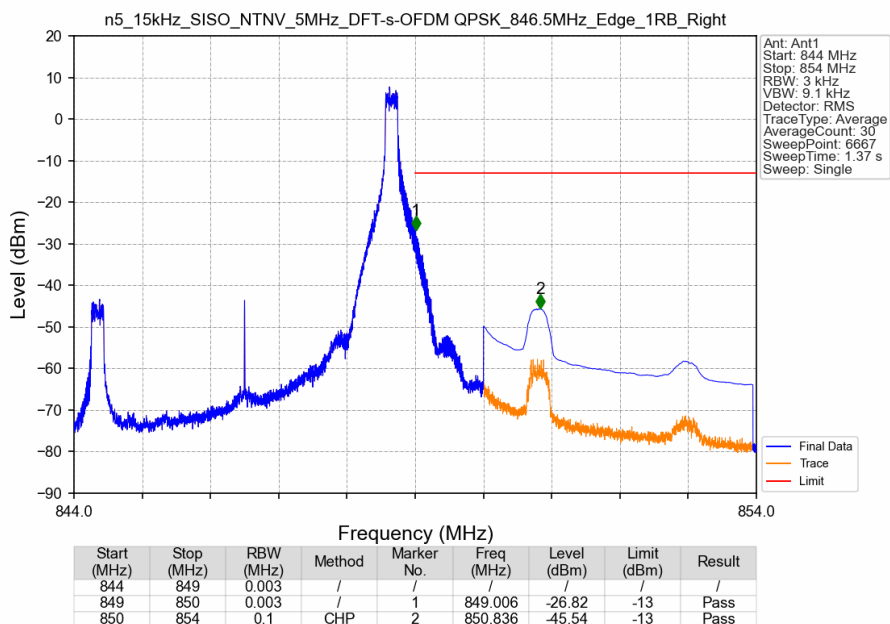
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_836.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_846.5MHz\_Edge\_1RB\_Right

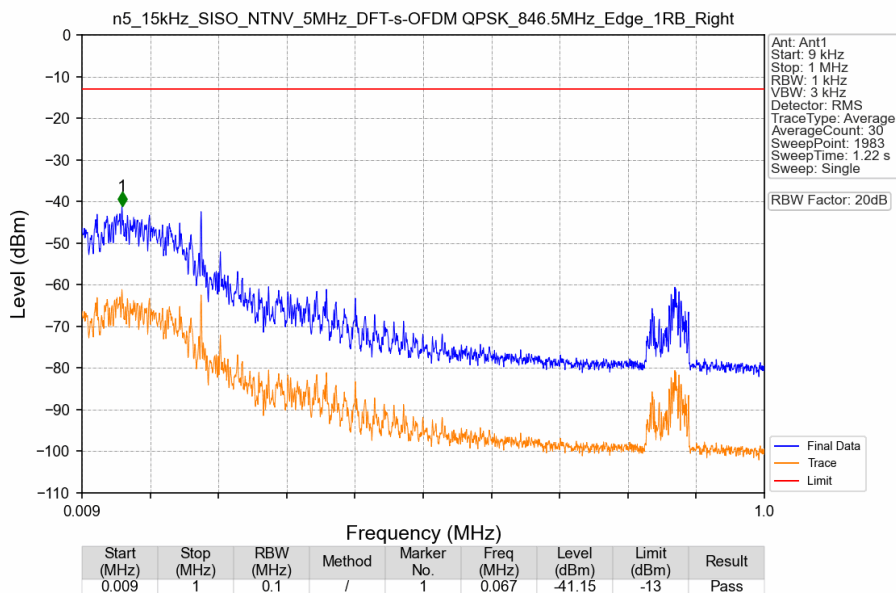


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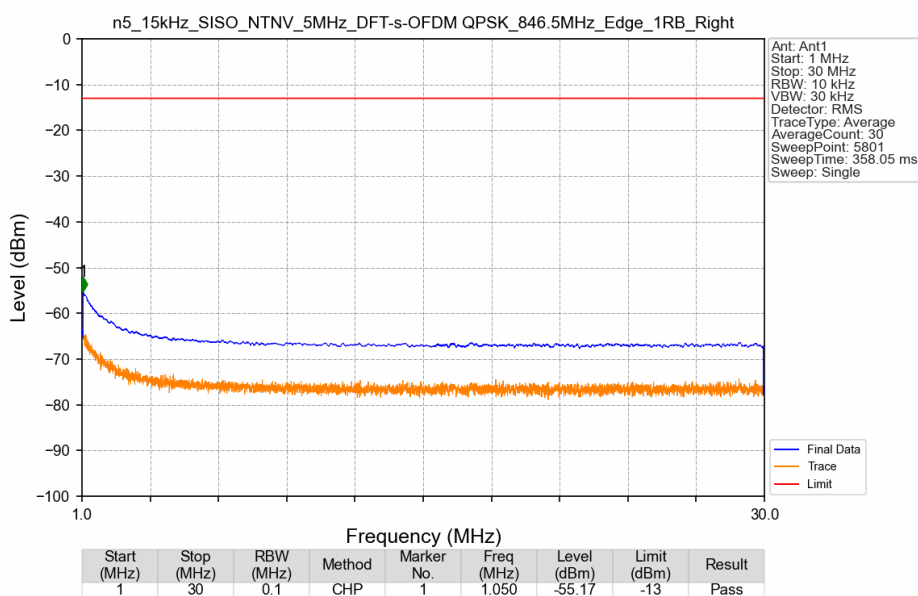
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_846.5MHz\_Edge\_1RB\_Right



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_846.5MHz\_Edge\_1RB\_Right

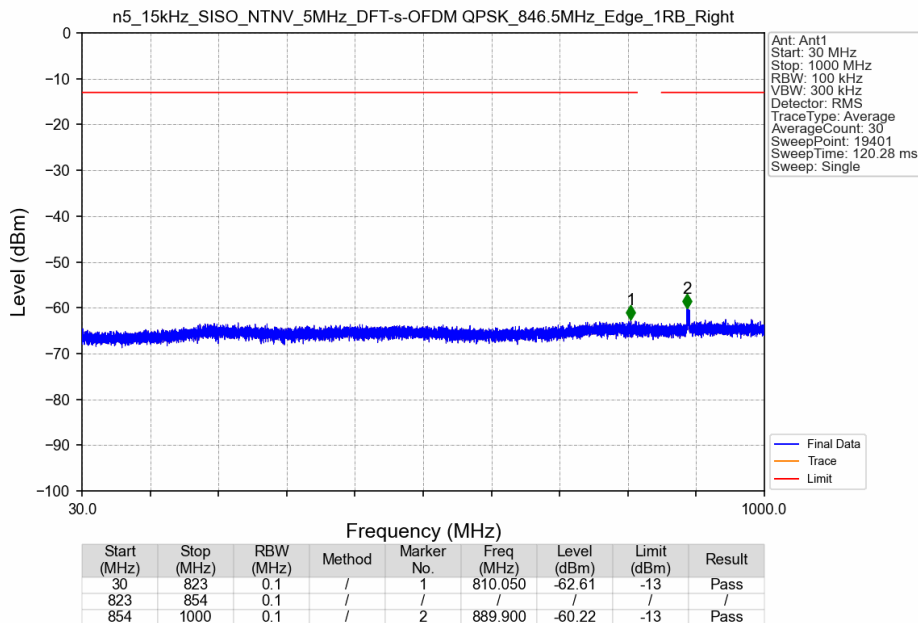


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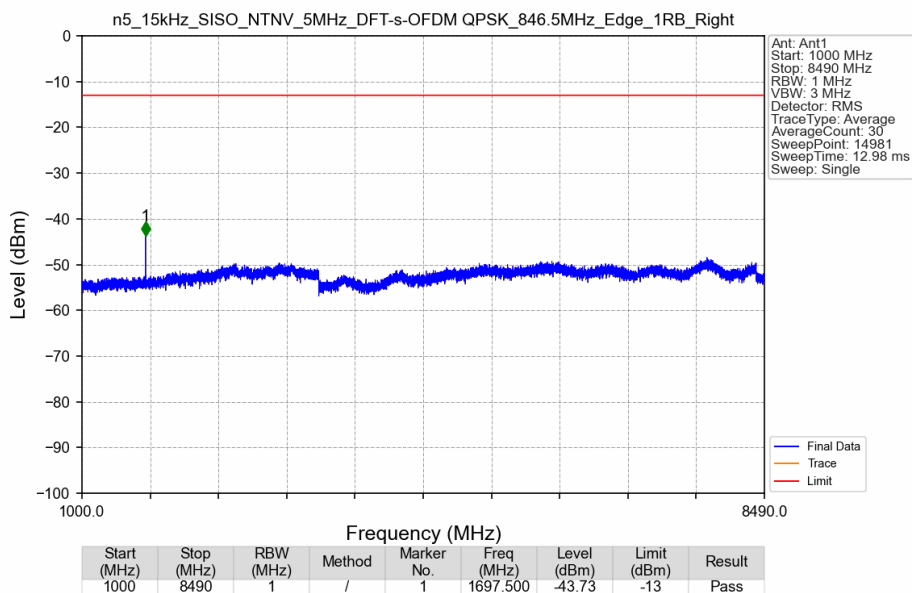
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_846.5MHz\_Edge\_1RB\_Right



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_846.5MHz\_Edge\_1RB\_Right



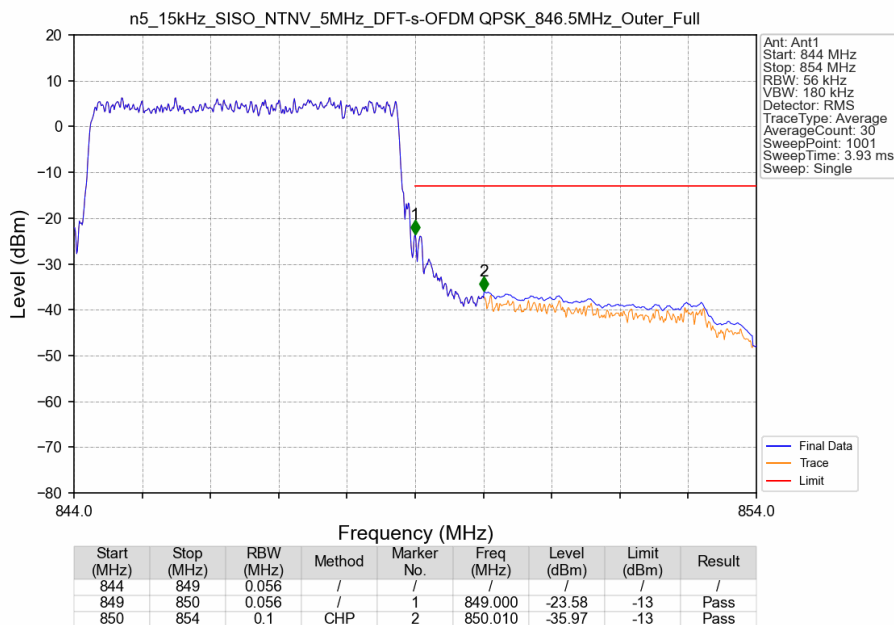
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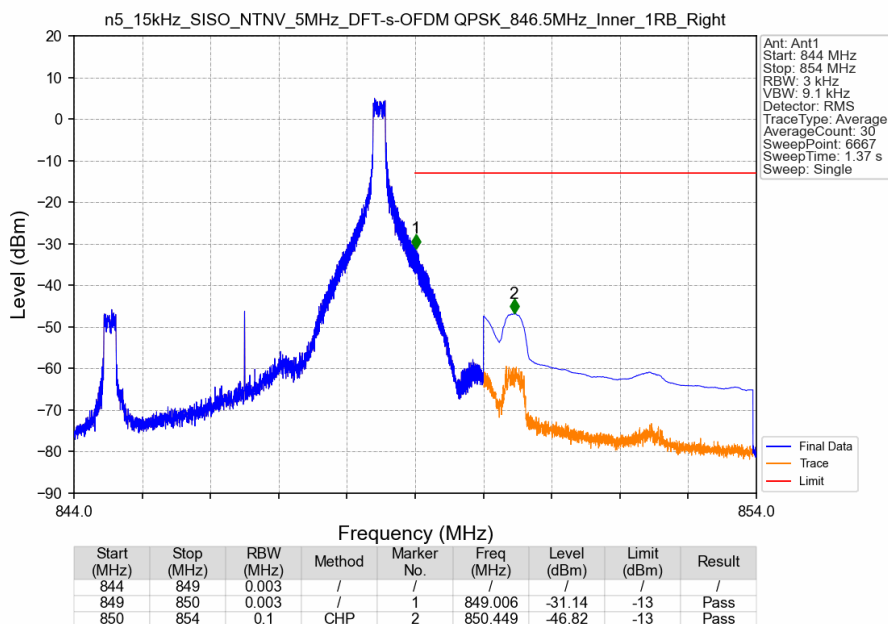
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_846.5MHz\_Outer\_Full



### n5\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_846.5MHz\_Inner\_1RB\_Right

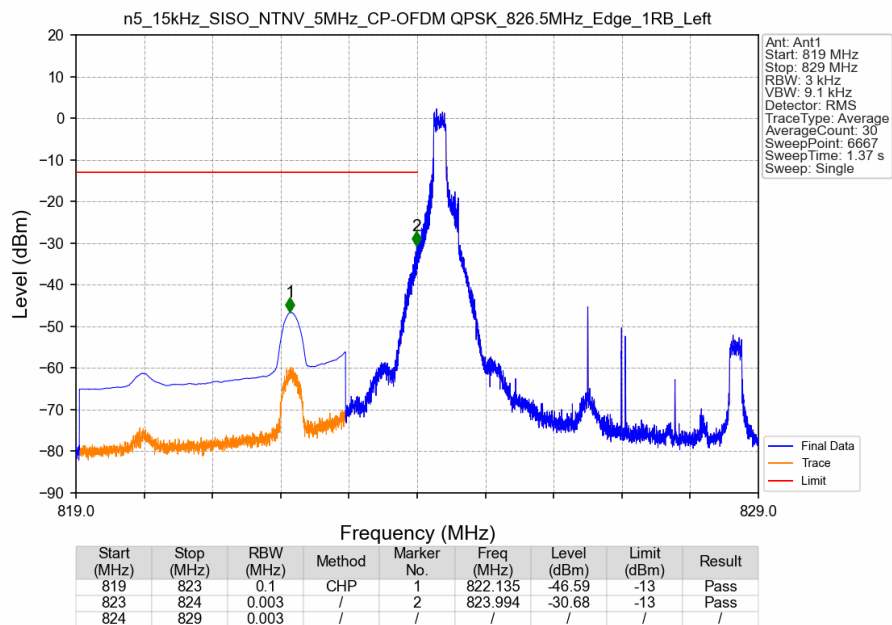


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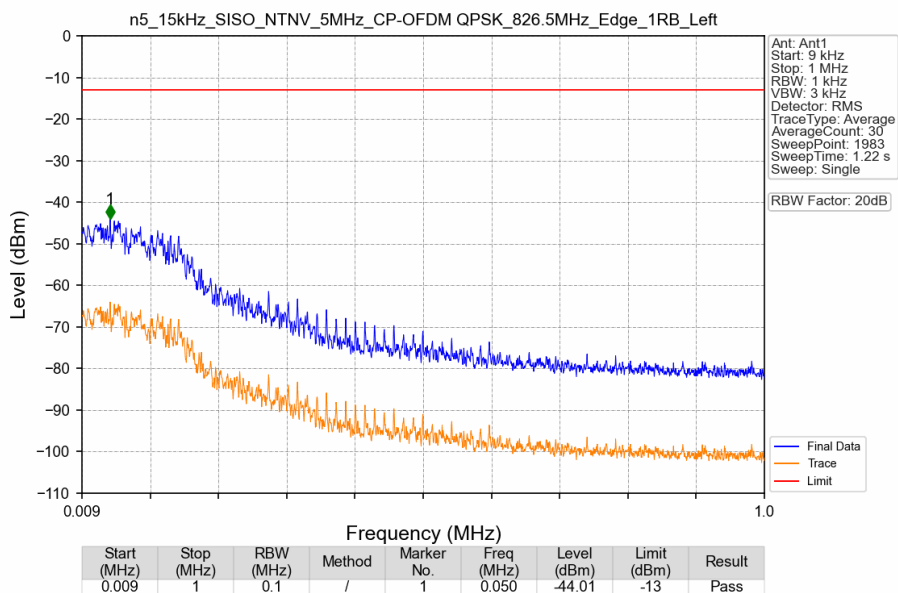
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_826.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_826.5MHz\_Edge\_1RB\_Left

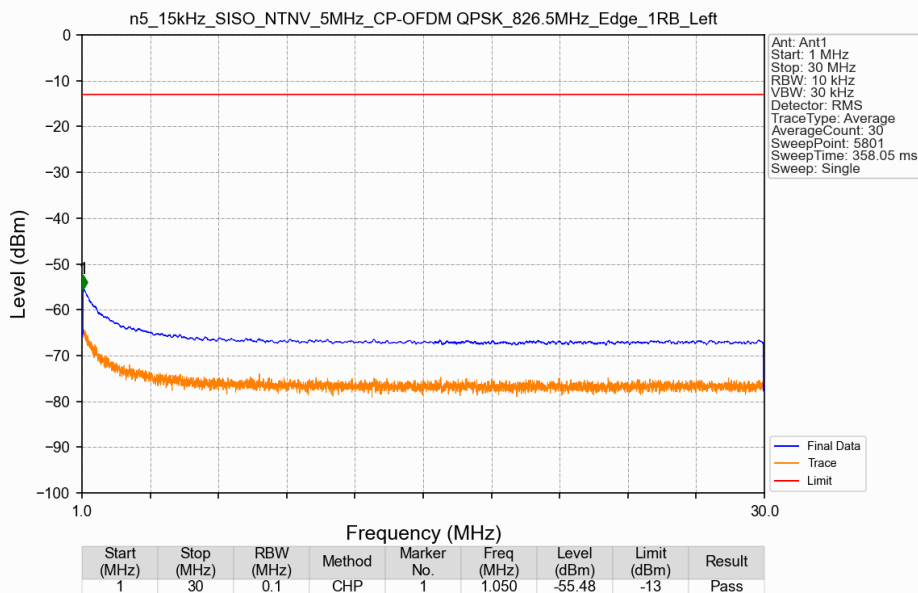


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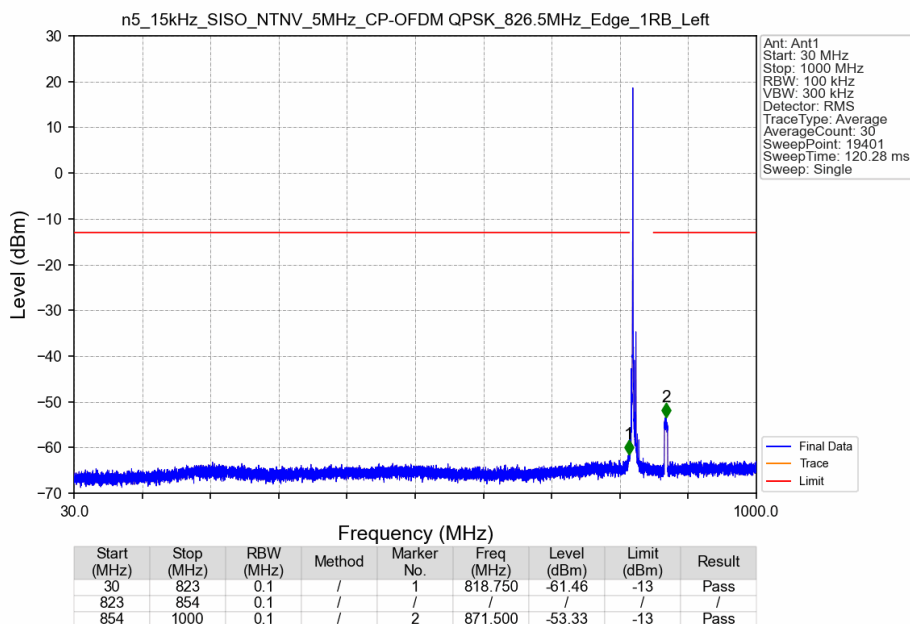
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_826.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_826.5MHz\_Edge\_1RB\_Left

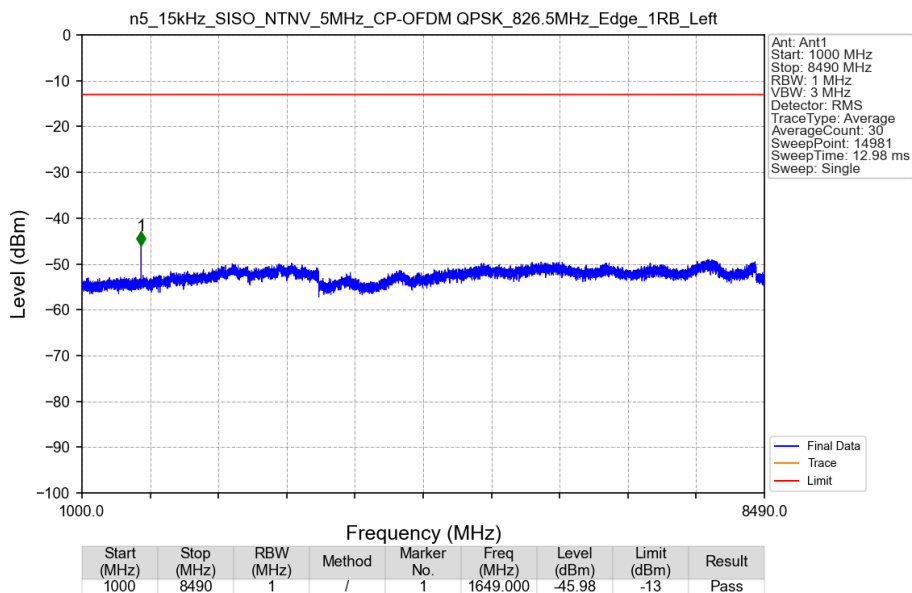


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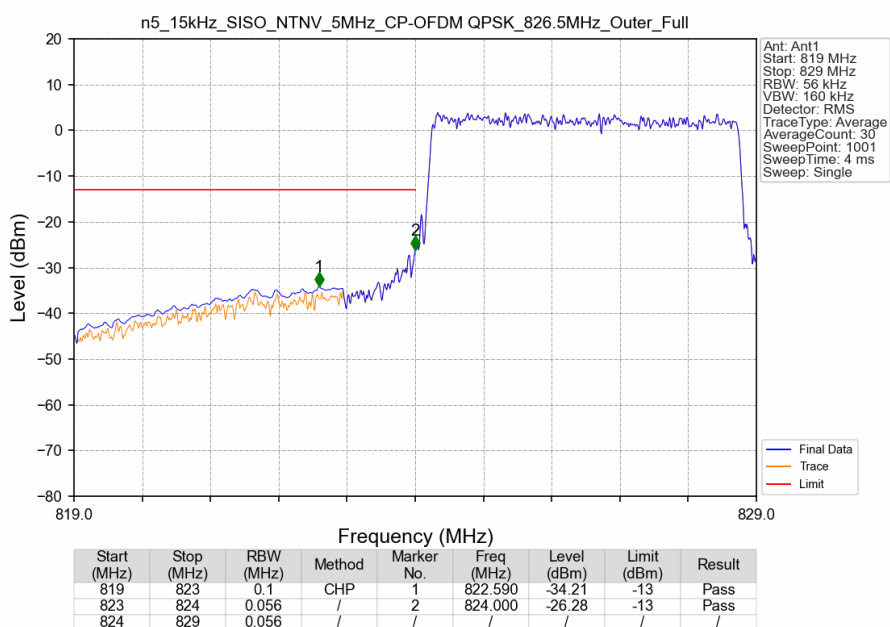
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_826.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_826.5MHz\_Outer\_Full

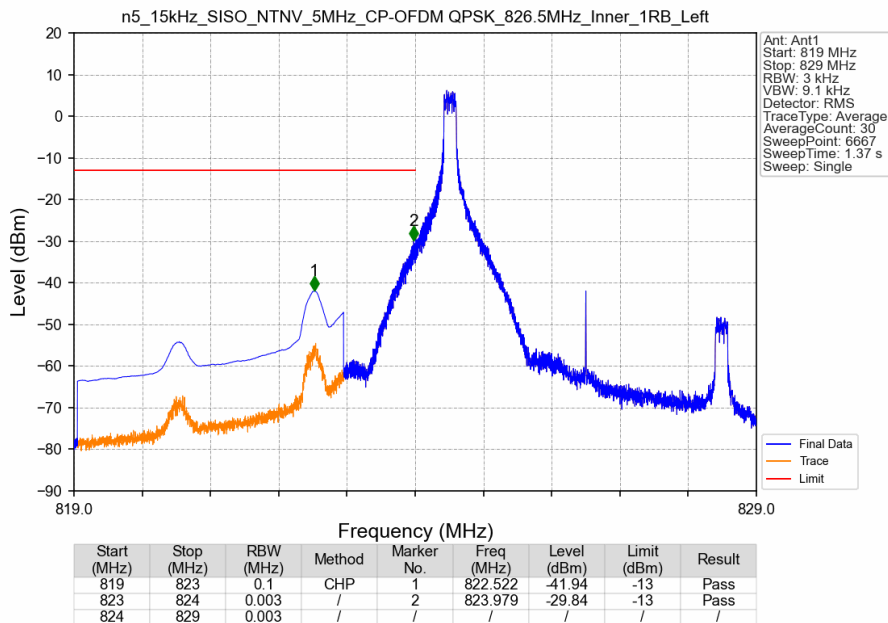


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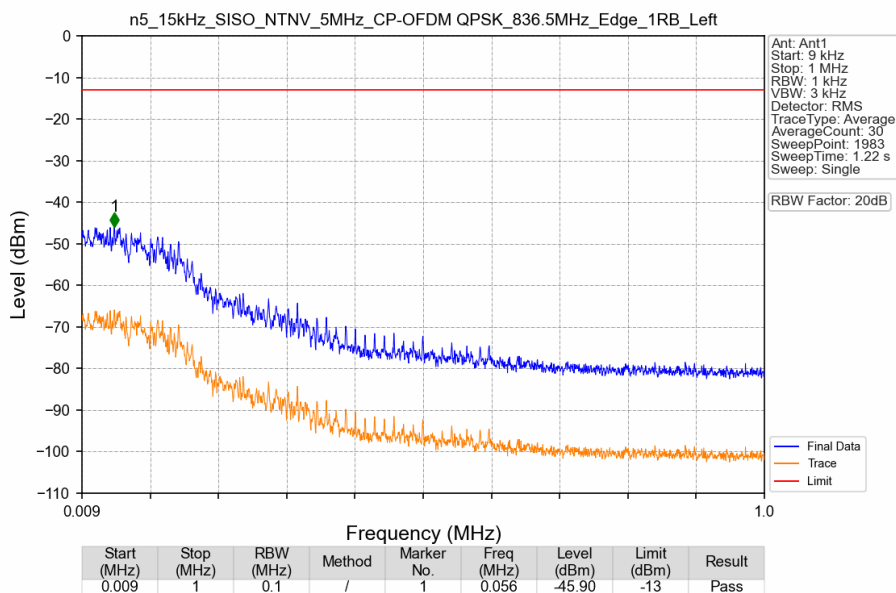
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_826.5MHz\_Inner\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_836.5MHz\_Edge\_1RB\_Left



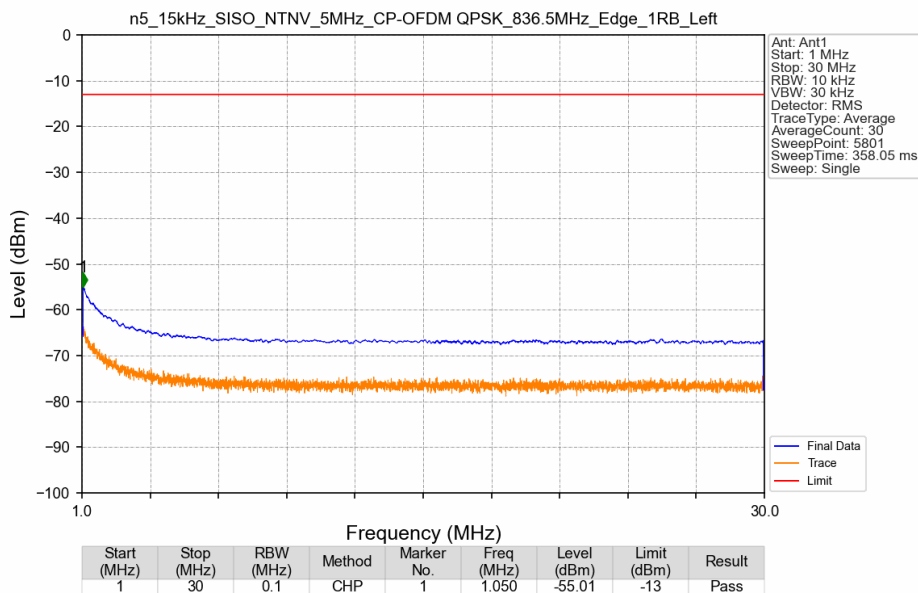
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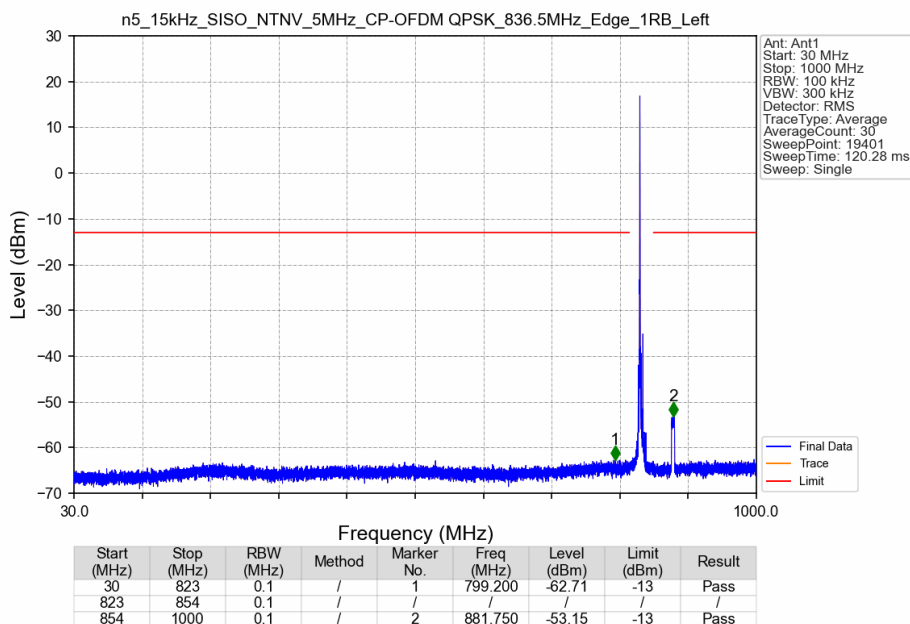
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_836.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_836.5MHz\_Edge\_1RB\_Left

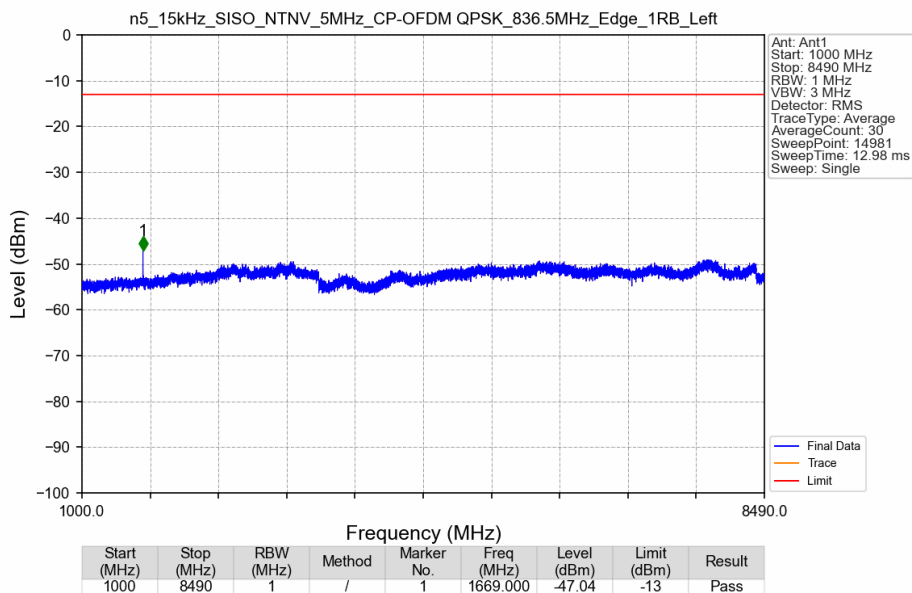


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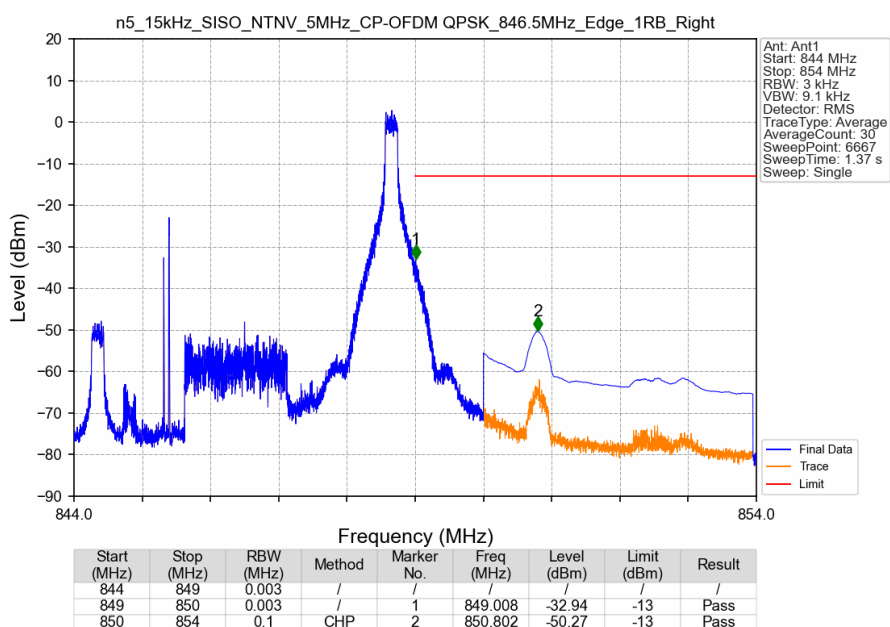
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_836.5MHz\_Edge\_1RB\_Left



### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_846.5MHz\_Edge\_1RB\_Right

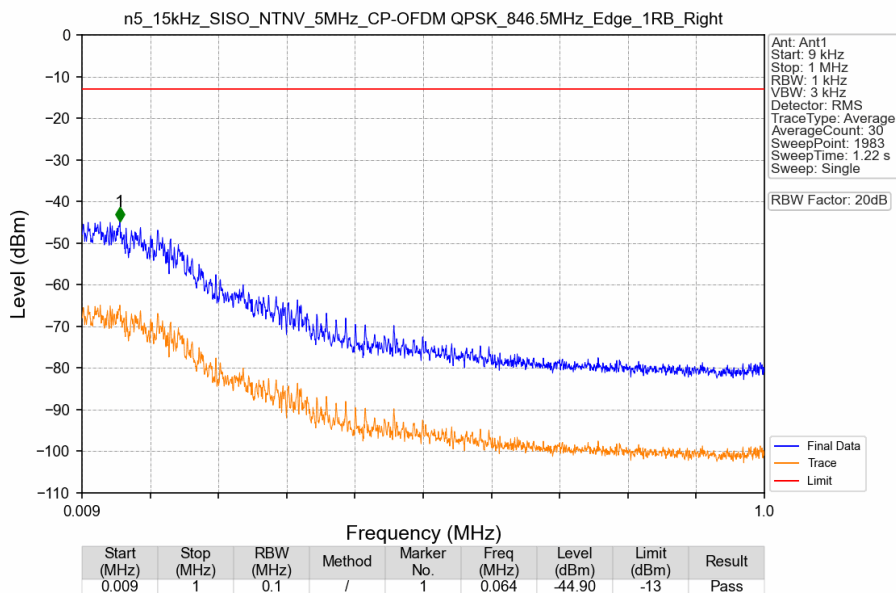


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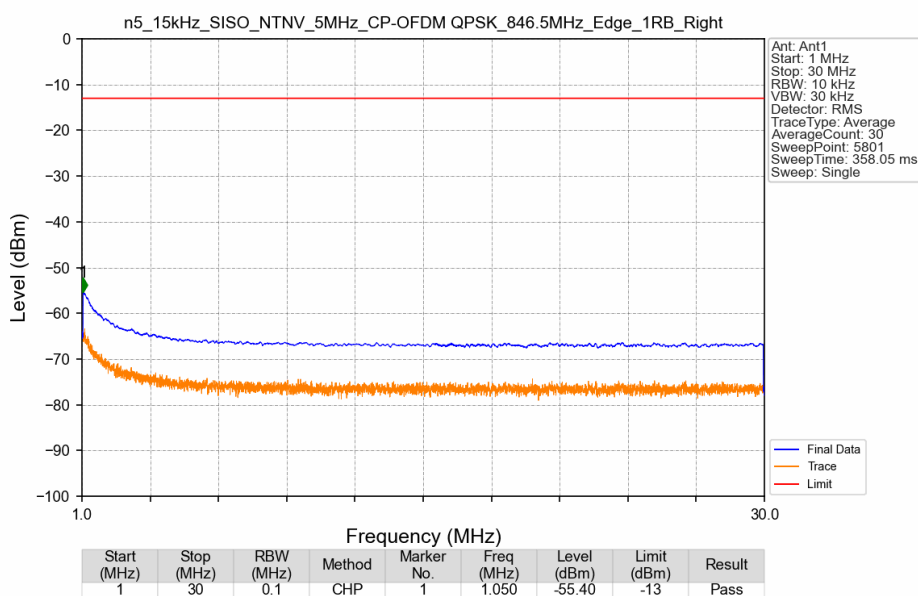
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### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_846.5MHz\_Edge\_1RB\_Right



### n5\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_846.5MHz\_Edge\_1RB\_Right



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