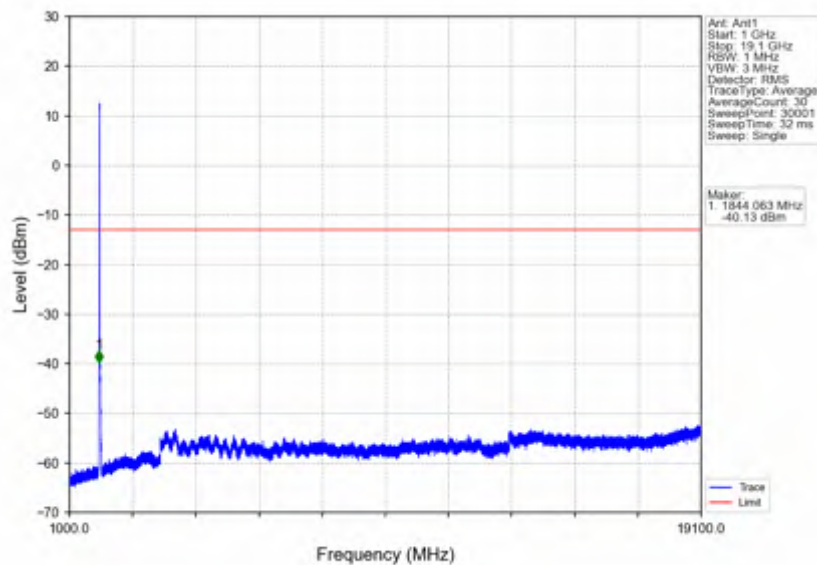
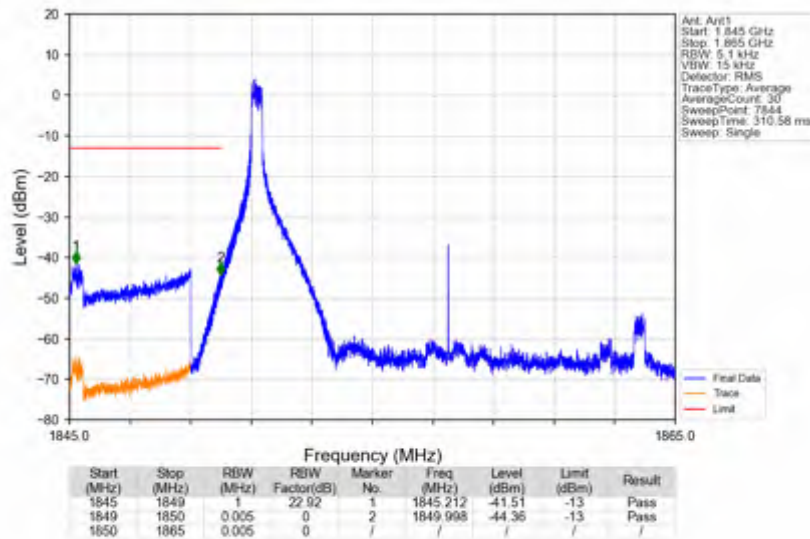


n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Outer_Full



n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Inner_1RB_Left



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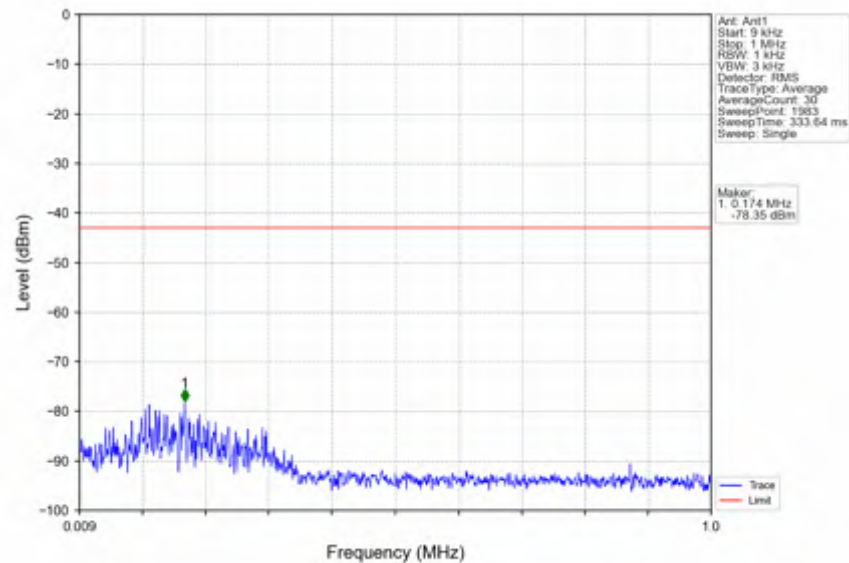
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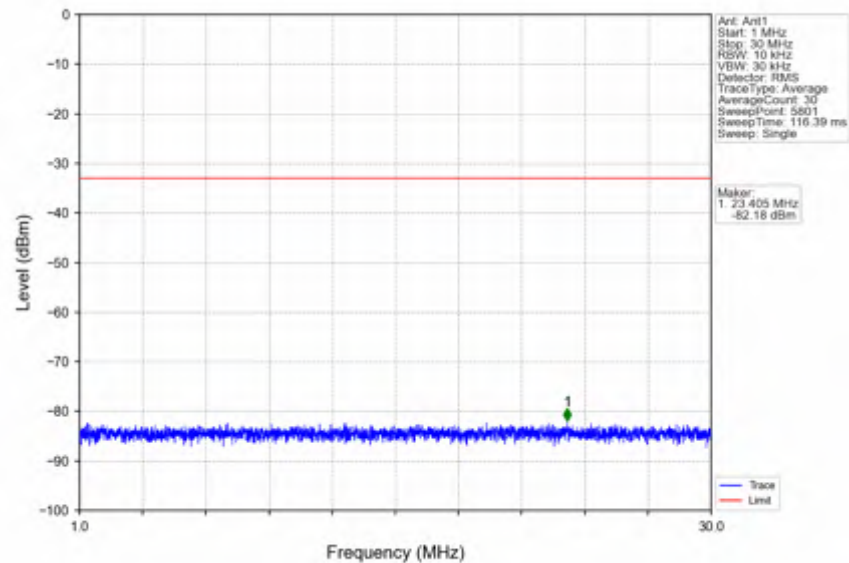
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_1857.5MHz_Inner_1RB_Left



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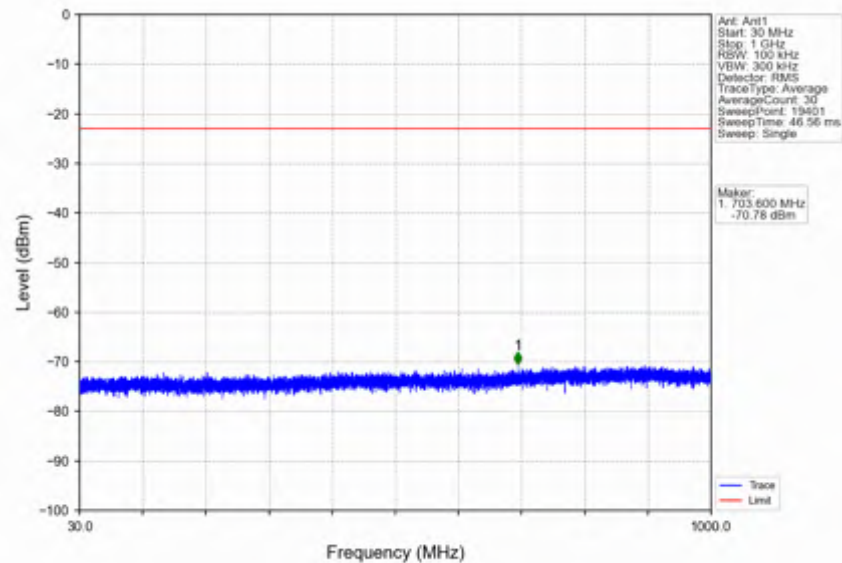
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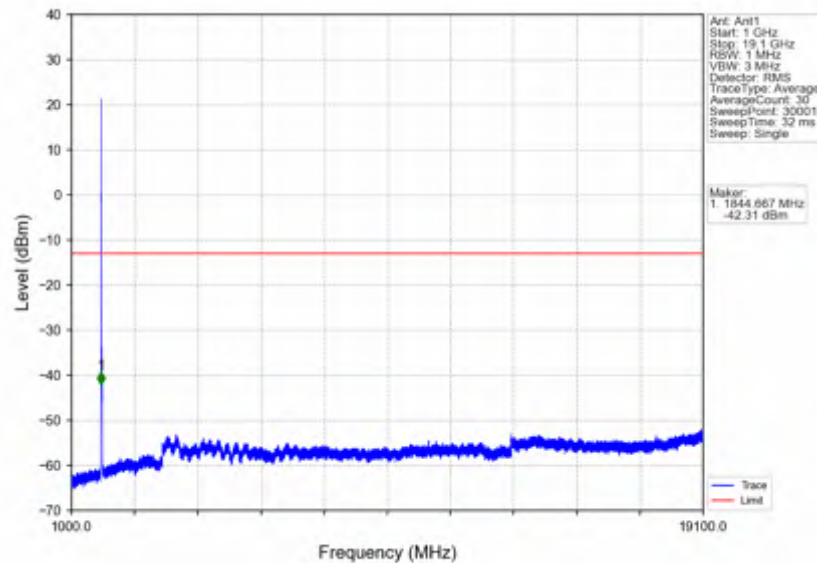
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_1857.5MHz_Inner_1RB_Left



n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_1857.5MHz_Inner_1RB_Left



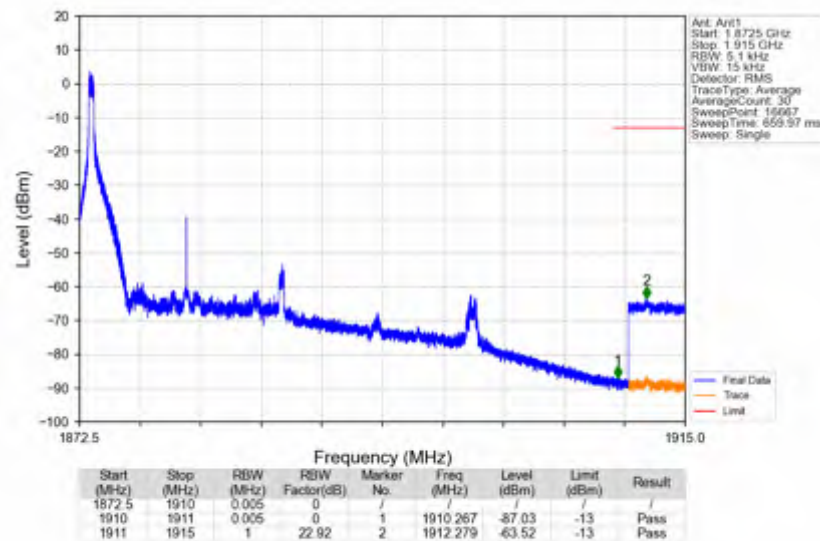
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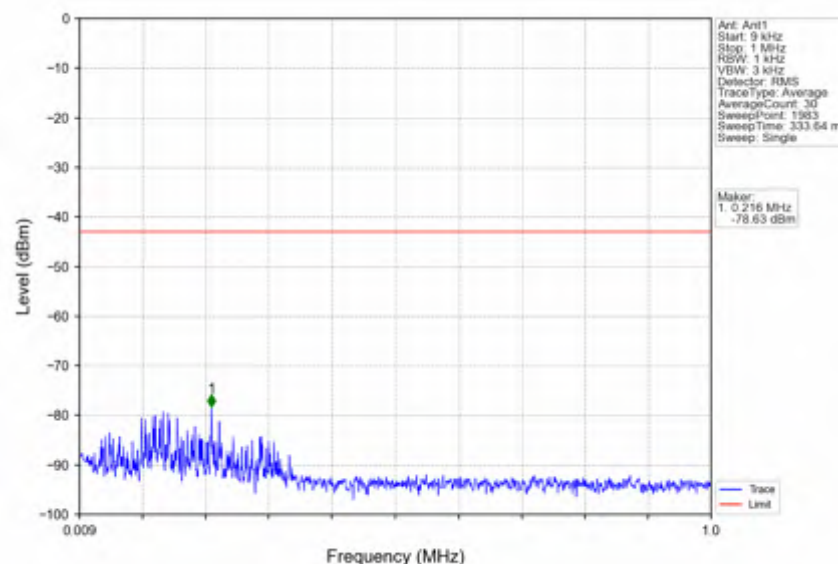
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n2 30kHz SISO NTN 15MHz DFT-s-OFDM QPSK 1880MHz Edge 1RB Left



n2	30kHz	SISO	NTNV	15MHz	DFT-s-OFDM	QPSK	1880MHz	Edge	1RB	Left
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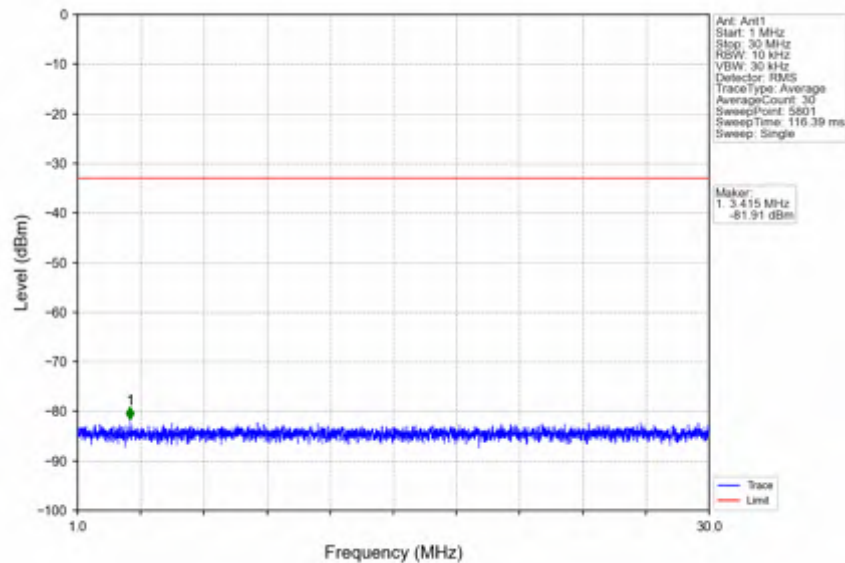


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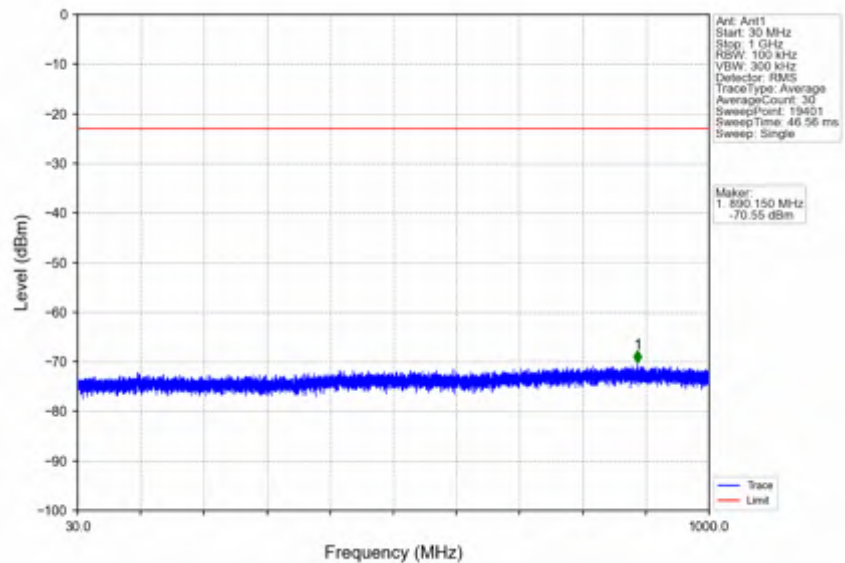
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left



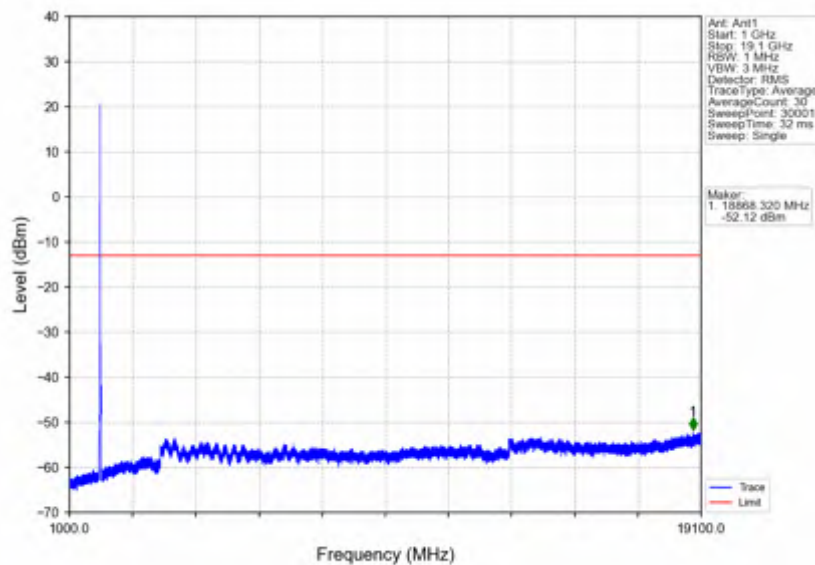
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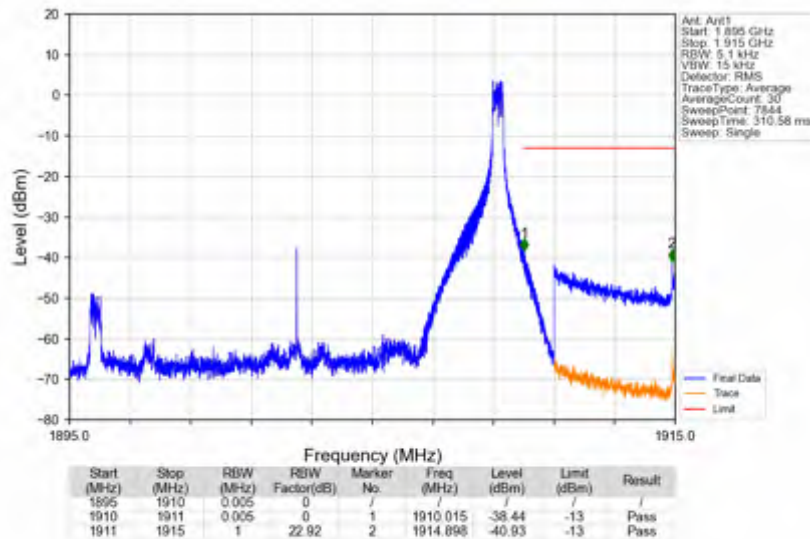
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Edge_1RB_Right



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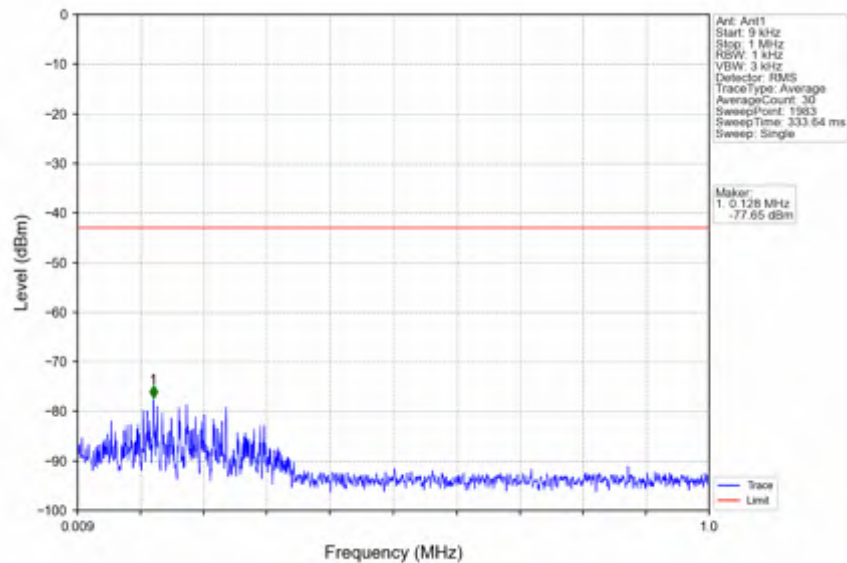
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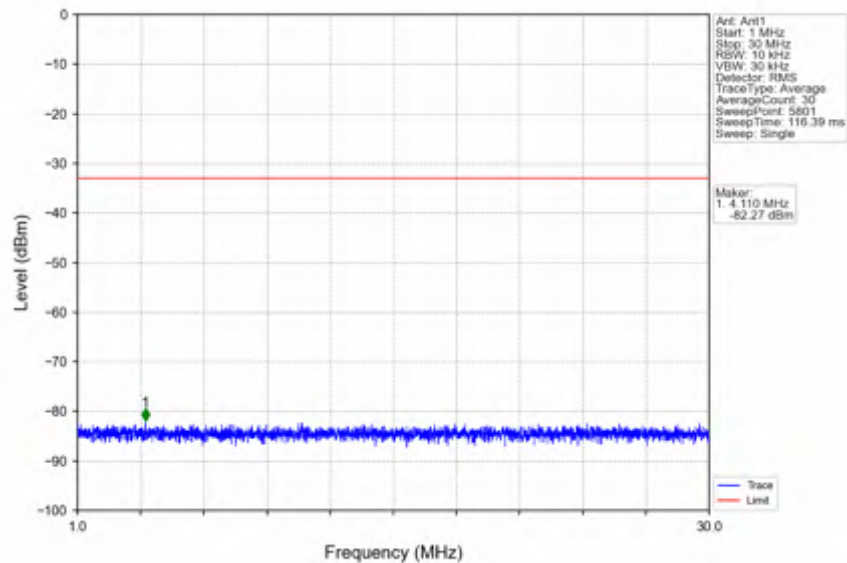
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n2_30kHz_SISO_NTV_15MHz_DFT-s-OFDM_QPSK_1902.5MHz_Edge_1RB_Right



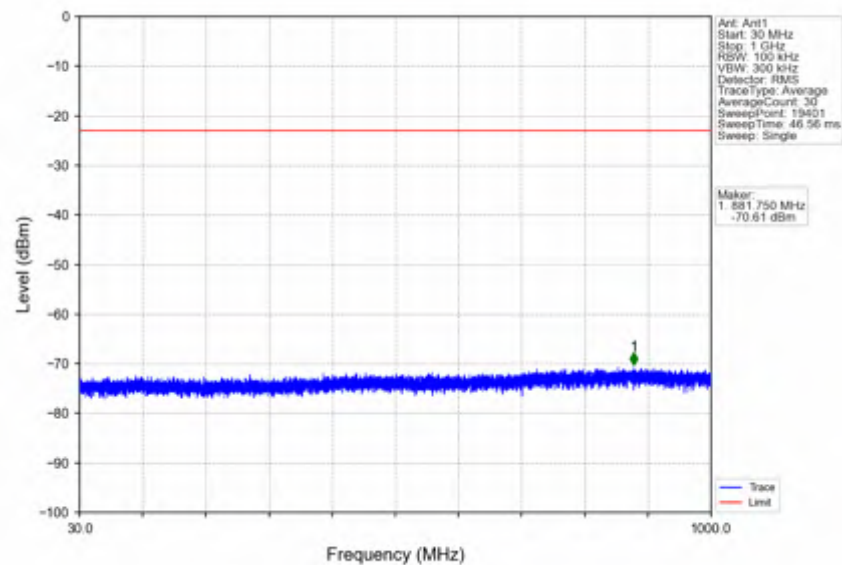
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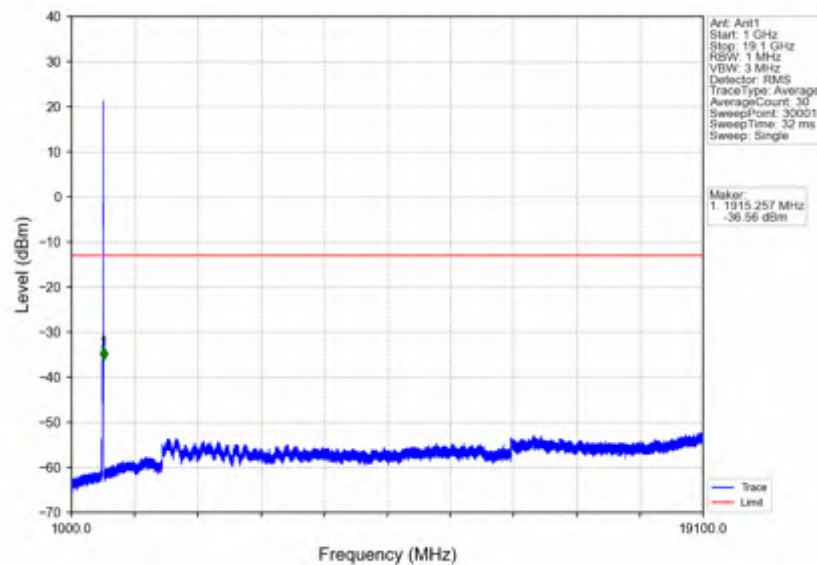
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n2_30kHz_SISO_NTV_15MHz_DFT-s-OFDM_QPSK_1902.5MHz_Edge_1RB_Right



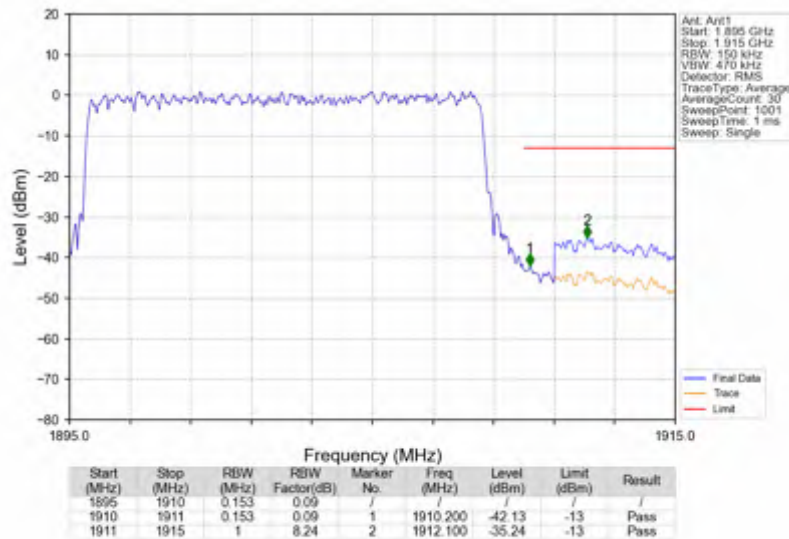
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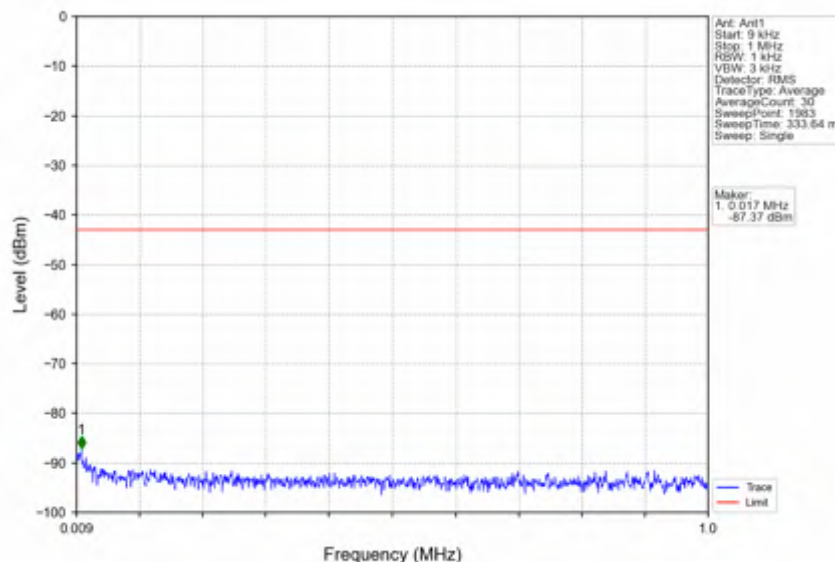
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_1902.5MHz_Outer_Full



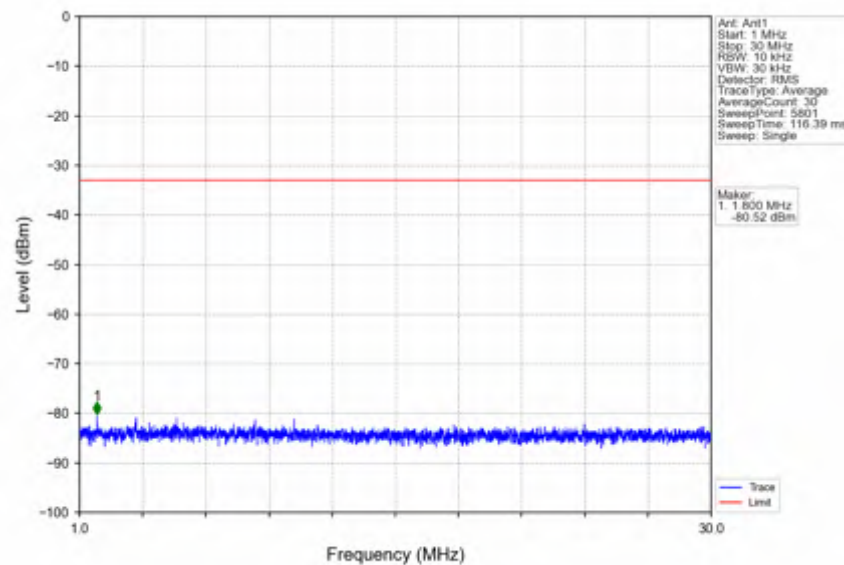
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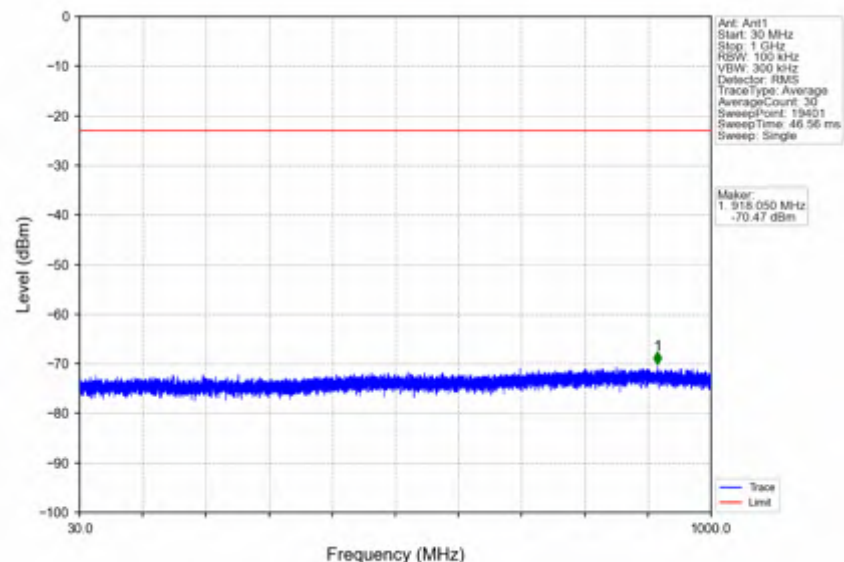
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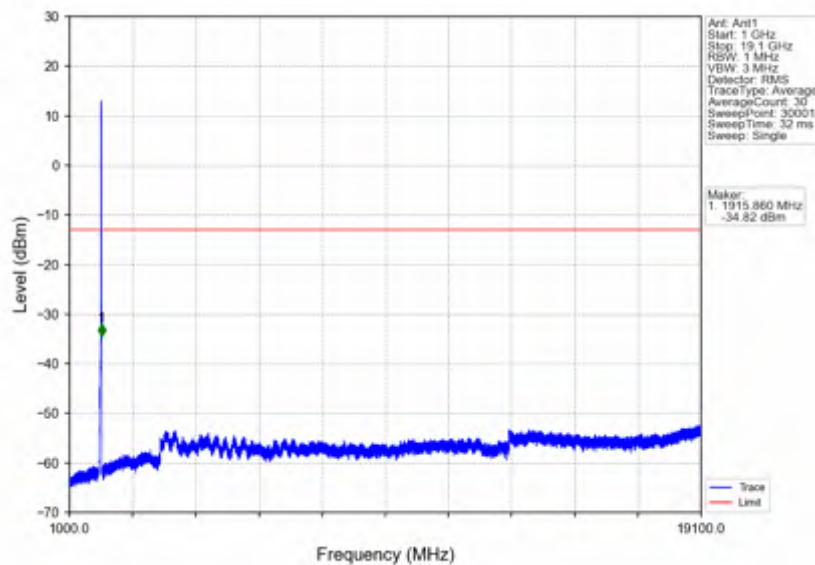
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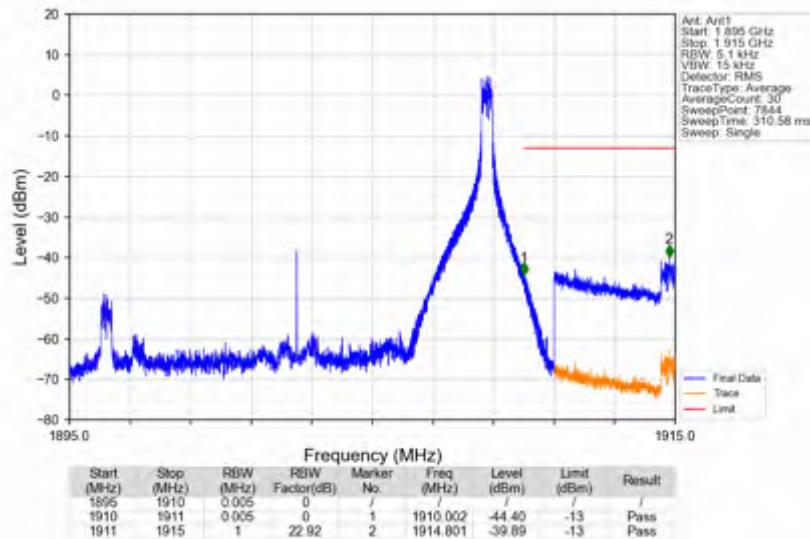
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Inner_1RB_Right



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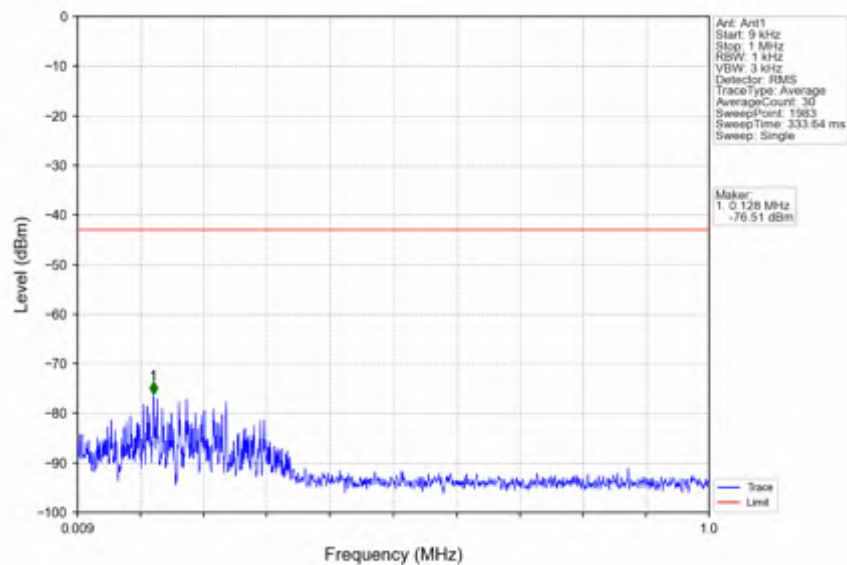
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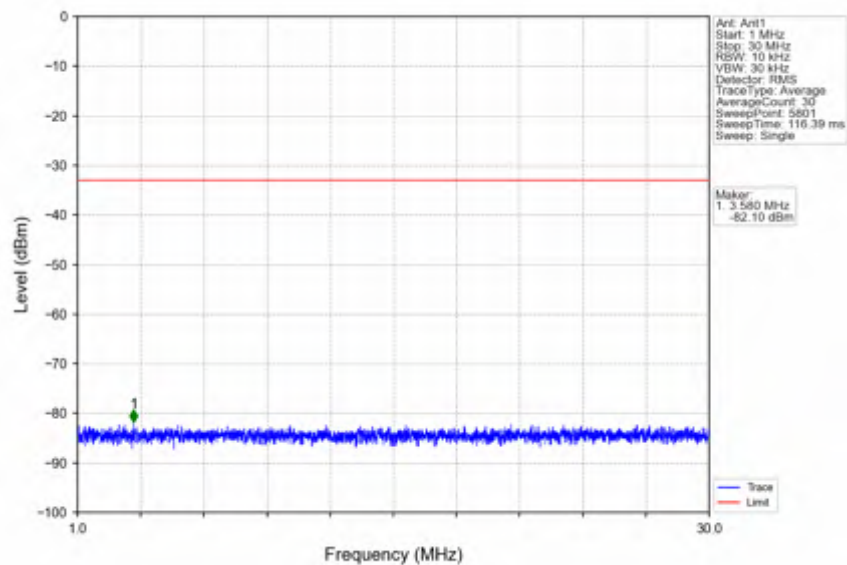
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Inner_1RB_Right



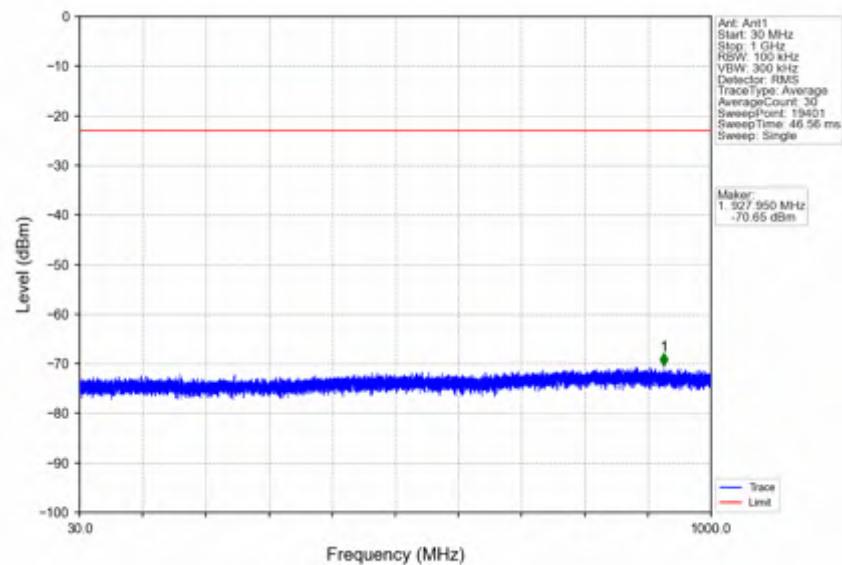
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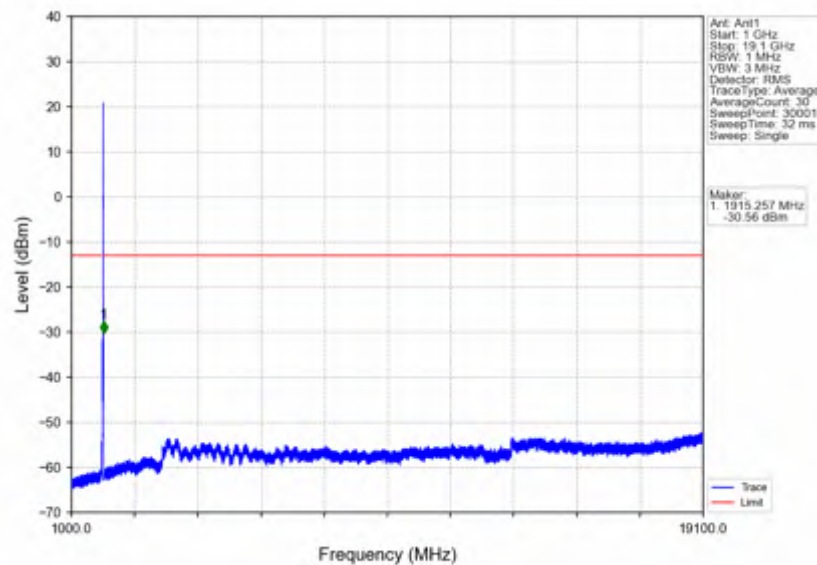
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_1902.5MHz_Inner_1RB_Right



n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_1902.5MHz_Inner_1RB_Right

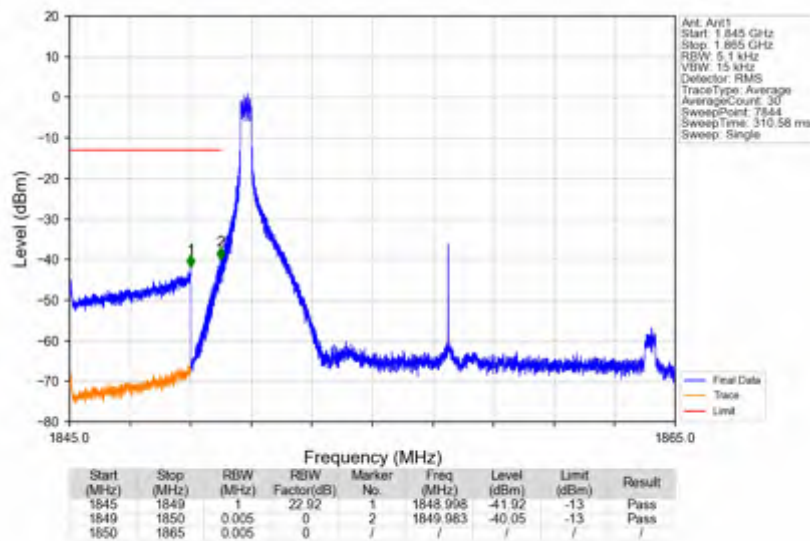


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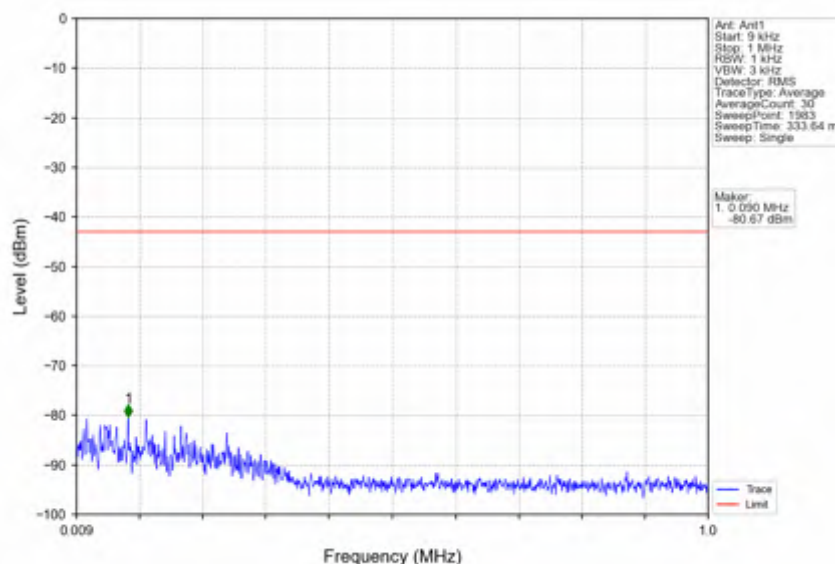
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n2 30kHz SISO NTN 15MHz CP-OFDM QPSK 1857.5MHz Edge 1RB Left



n2 30kHz SISO NTN 15MHz CP-OFDM QPSK 1857.5MHz Edge 1RB Left

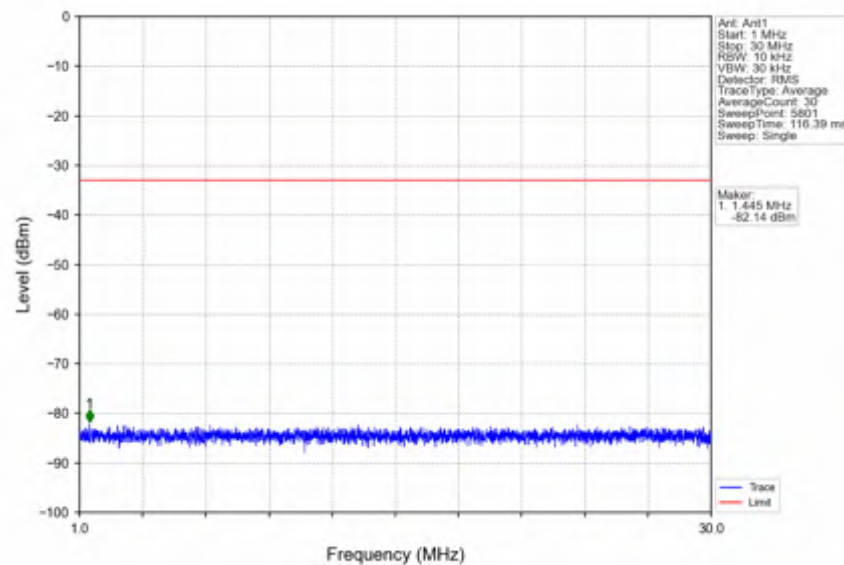


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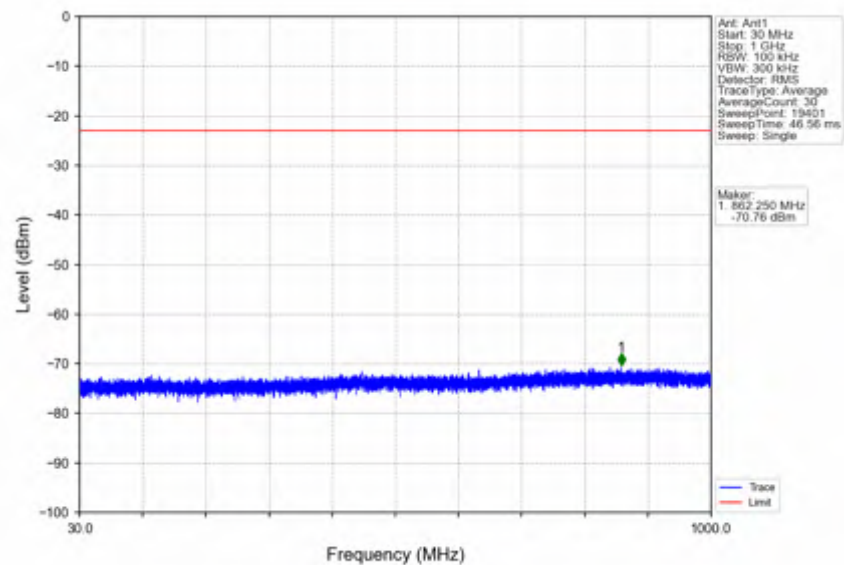
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Edge_1RB_Left



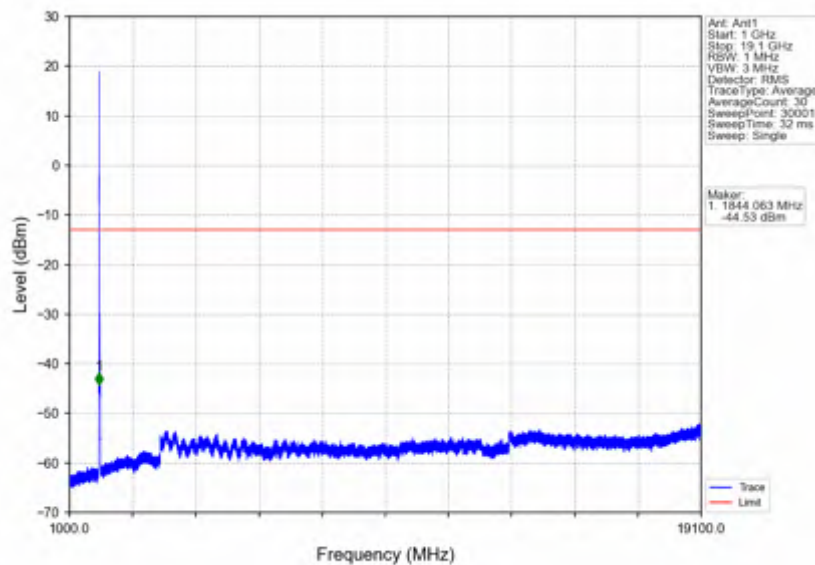
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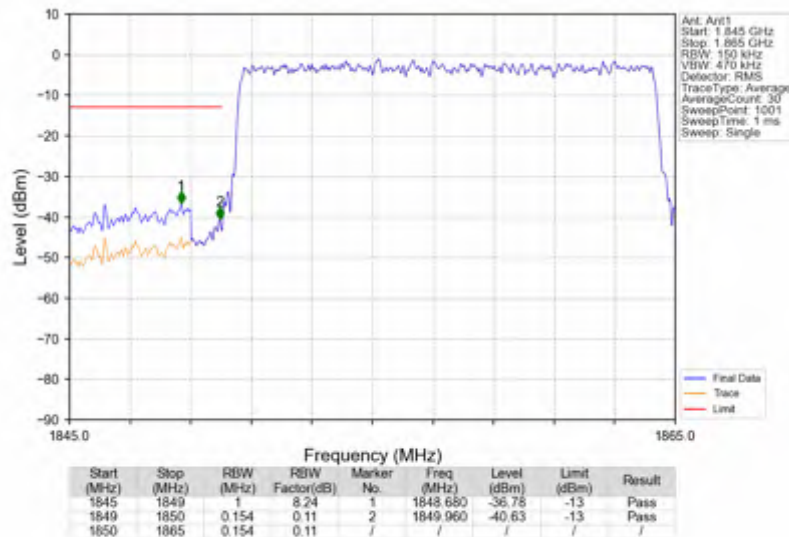
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Outer_Full



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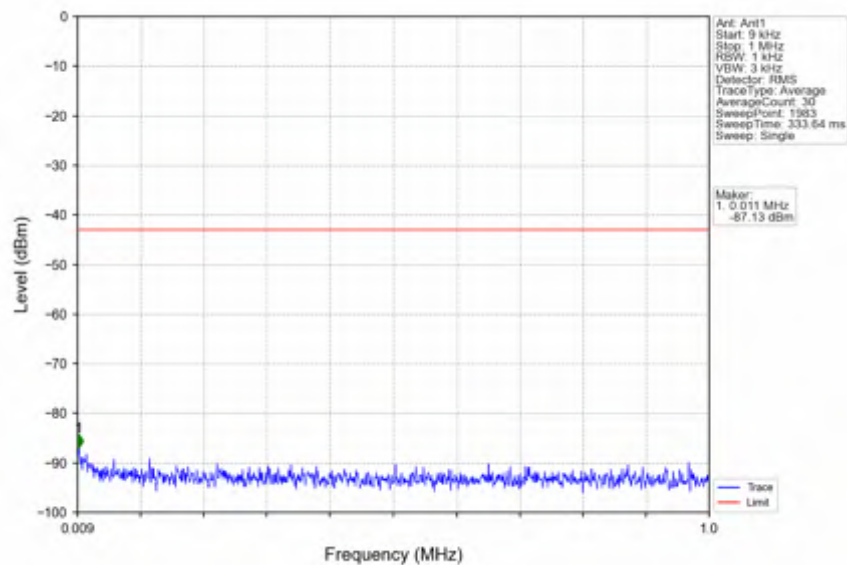
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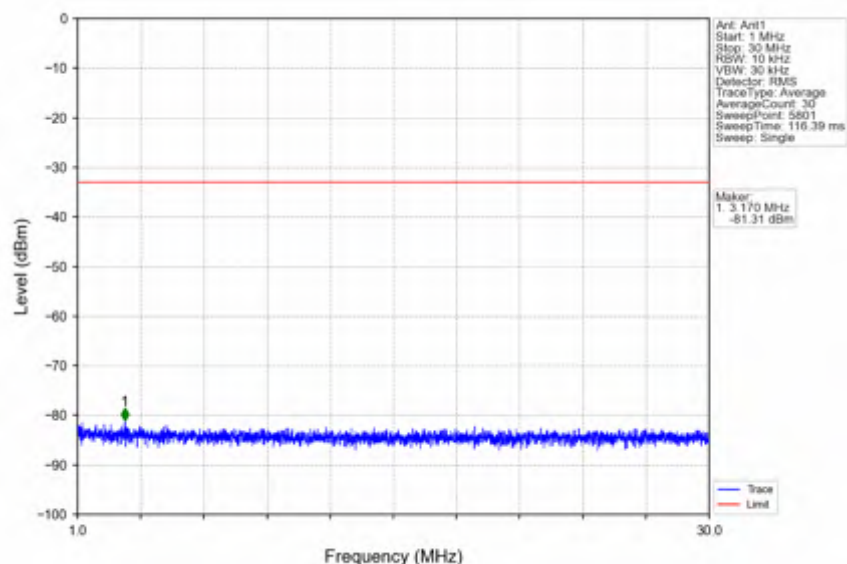
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n2	30kHz	SISO	NTNV	15MHz	CP-OFDM	QPSK	1857.5MHz	Outer	Full
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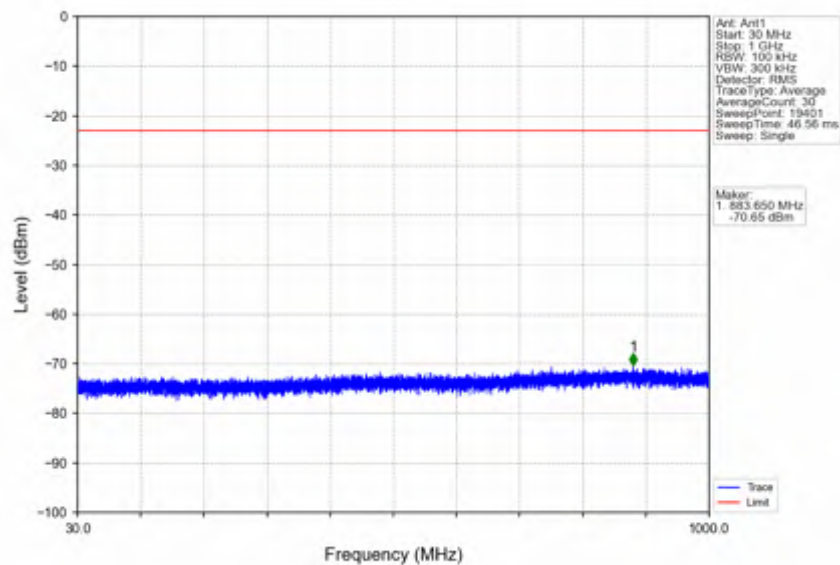


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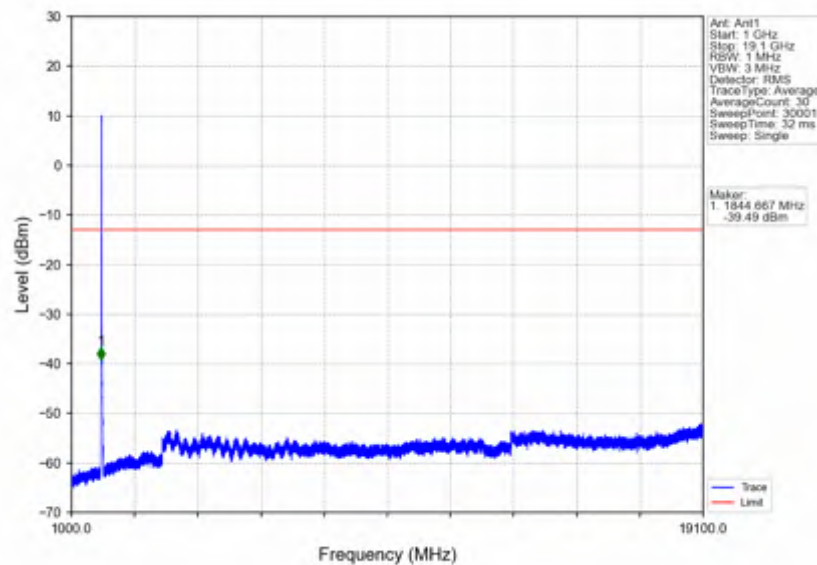
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Outer_Full



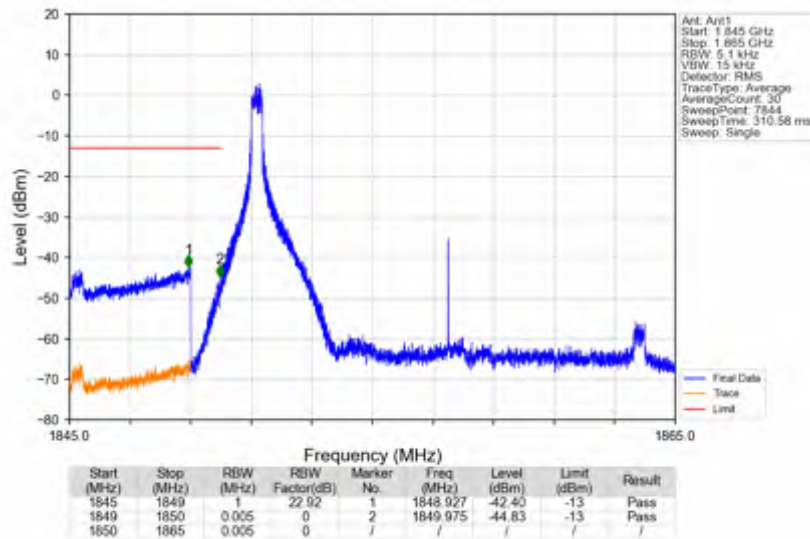
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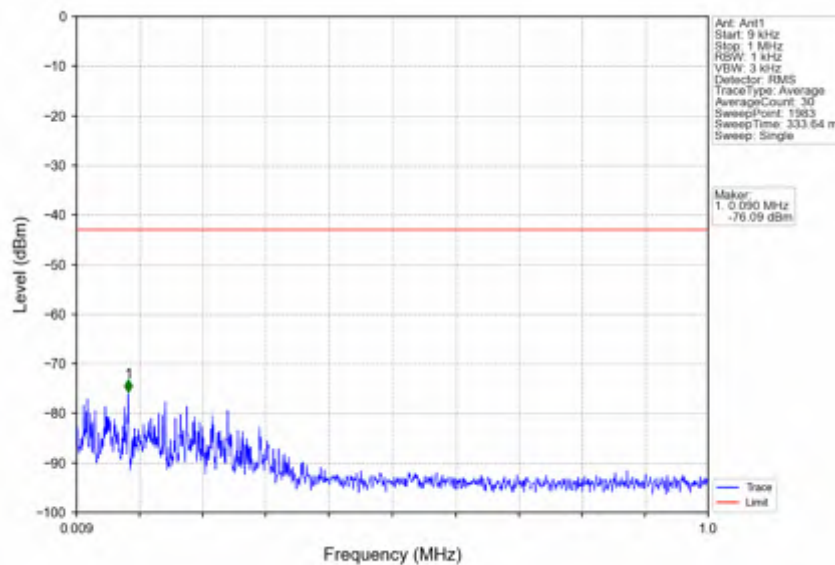
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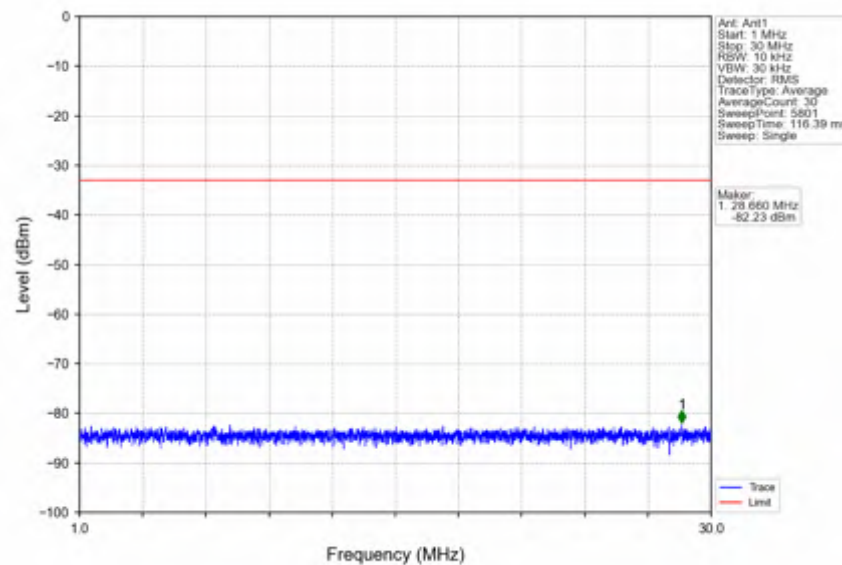


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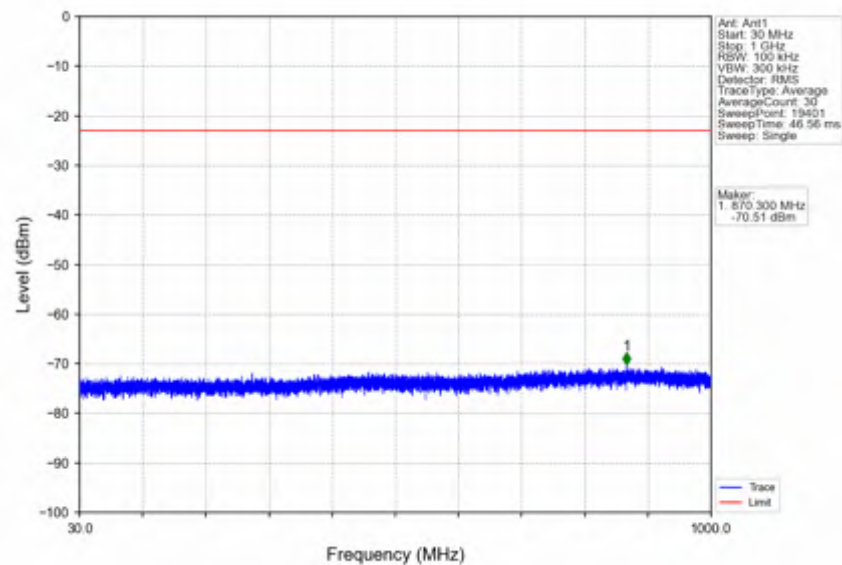
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_1857.5MHz_Inner_1RB_Left



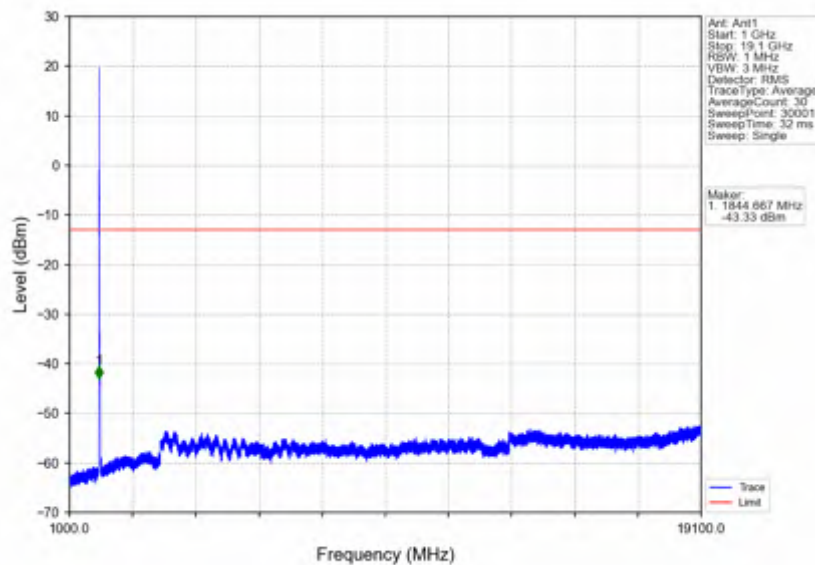
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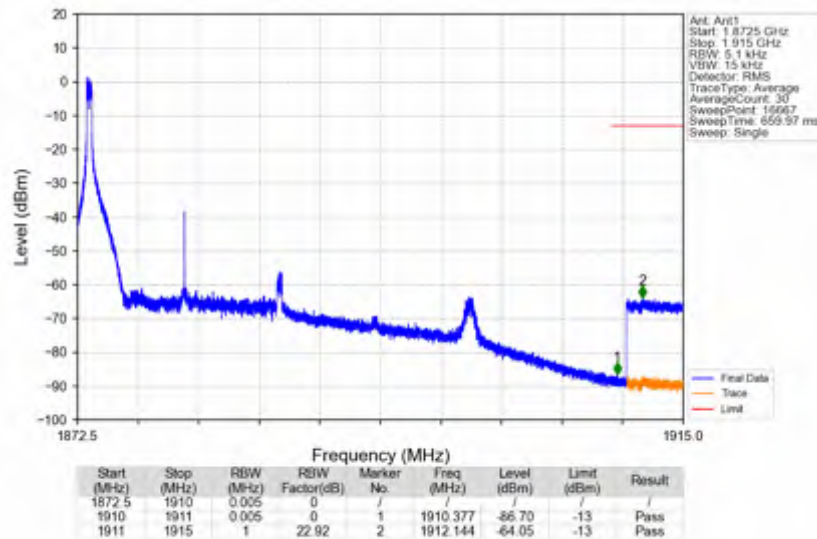
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Inner_1RB_Left



n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1880MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1872.5	1910	0.005	0	1	1910.377	-86.70	-13	Pass
1910	1911	0.005	0	1	1910.377	-86.70	-13	Pass
1911	1915	1	22.92	2	1912.144	-64.05	-13	Pass



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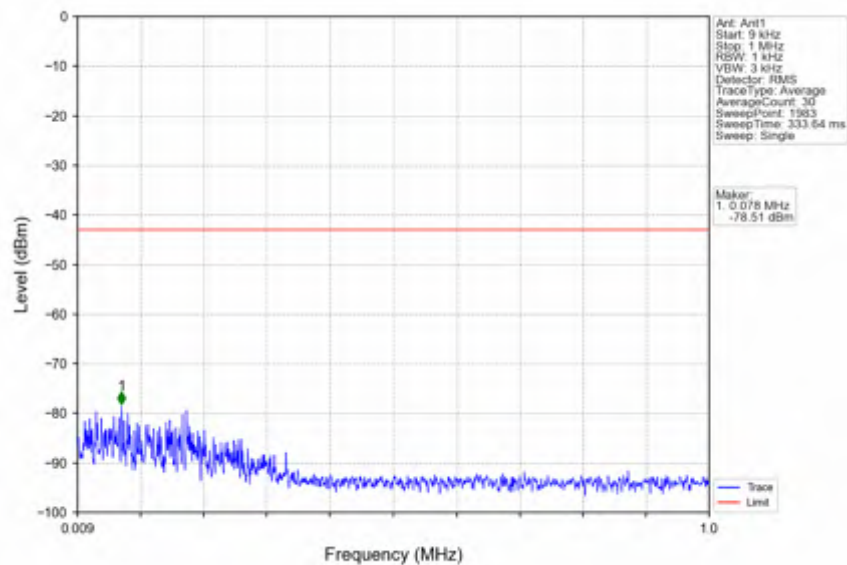
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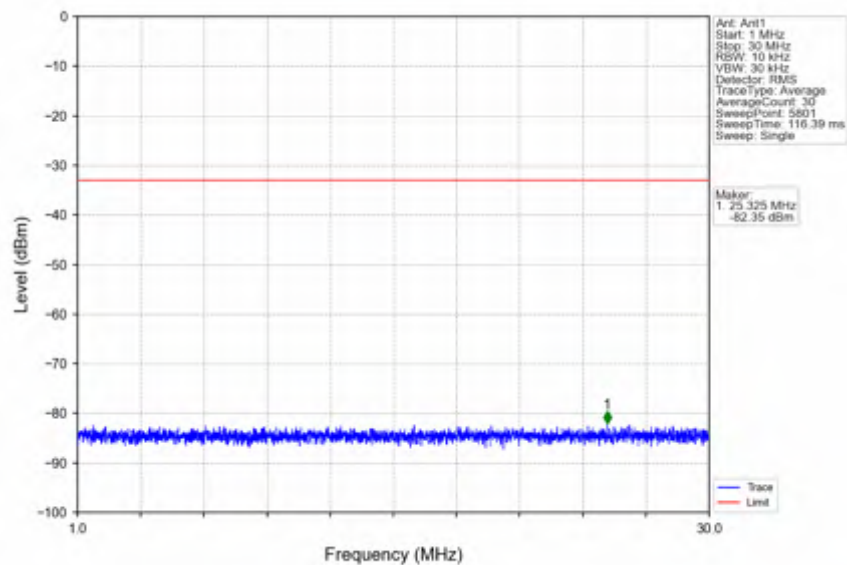
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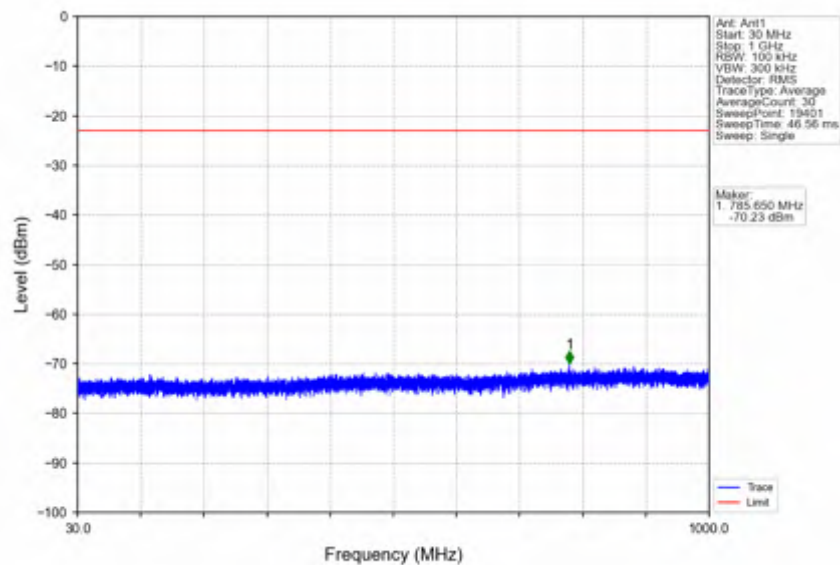
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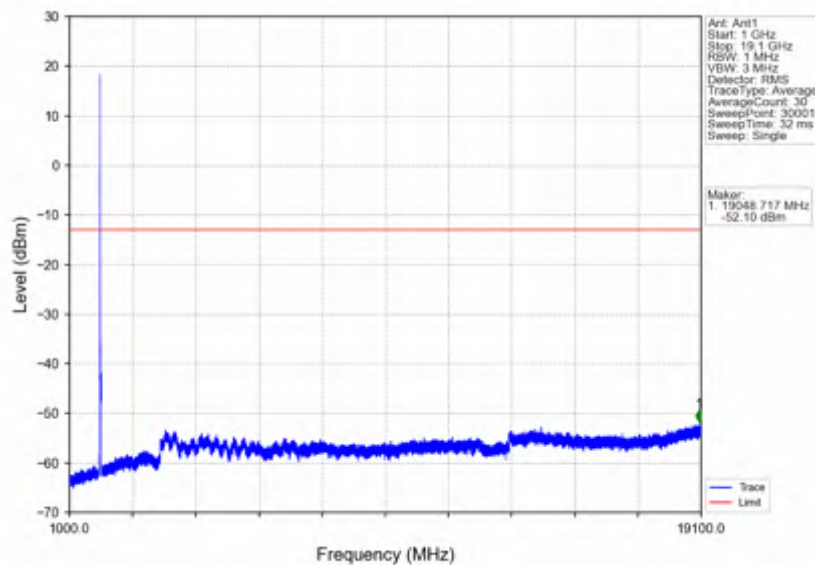
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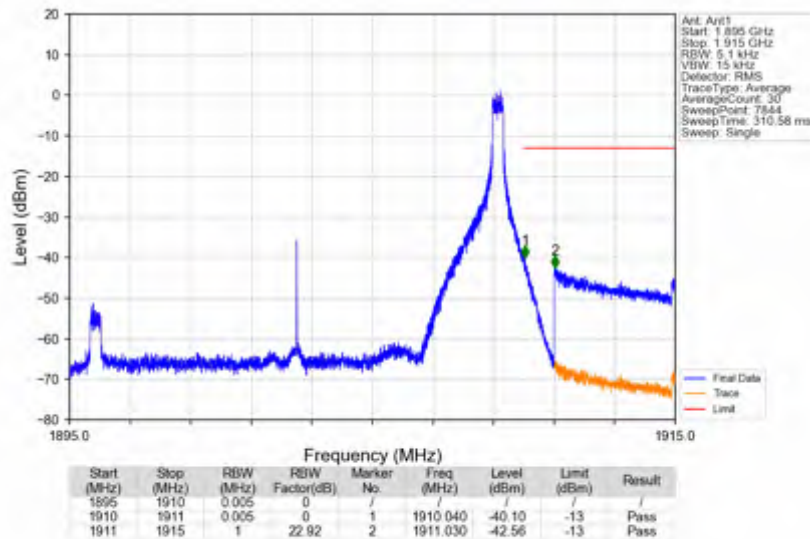
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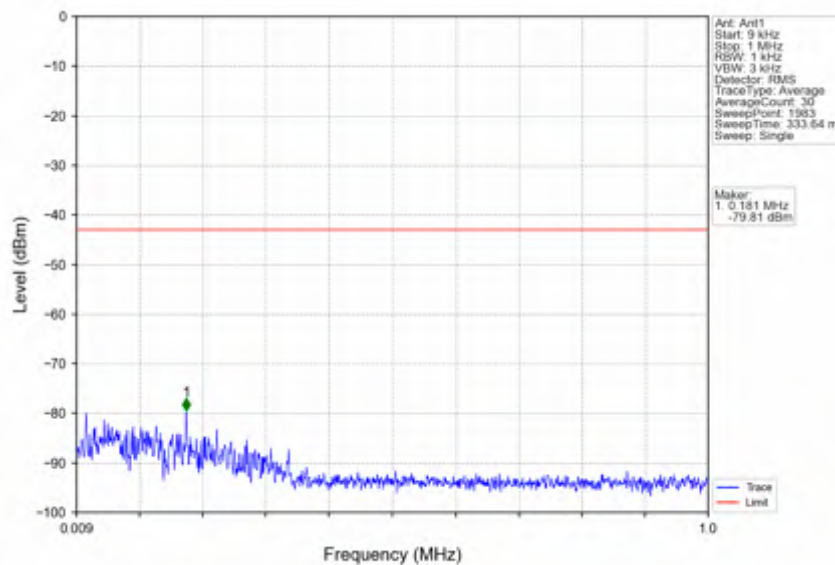
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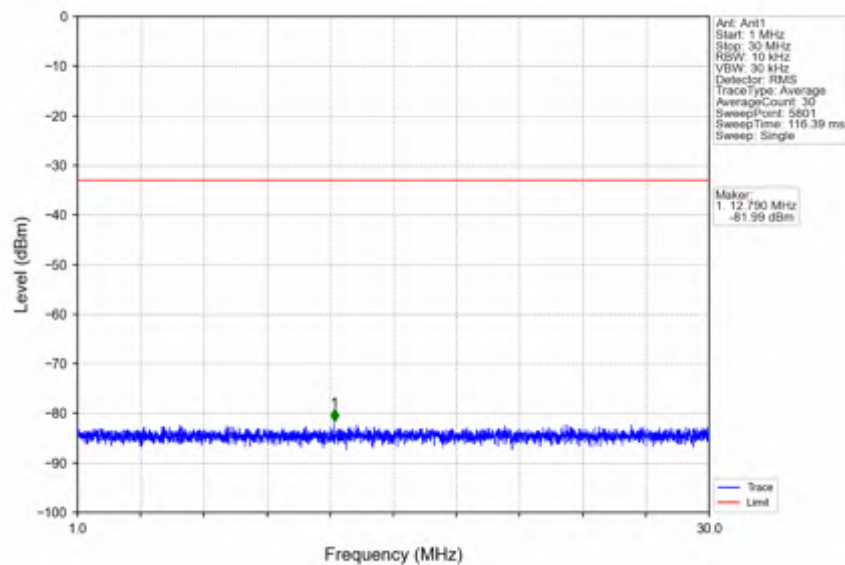


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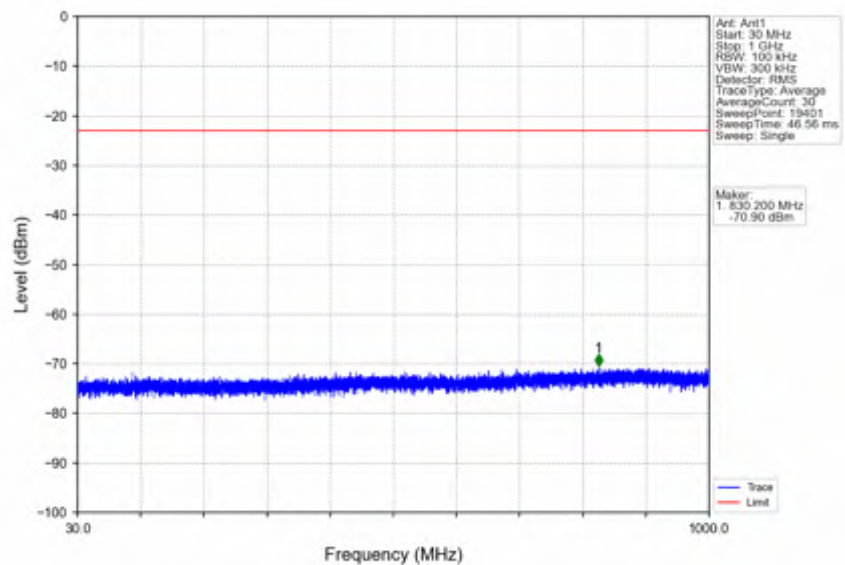
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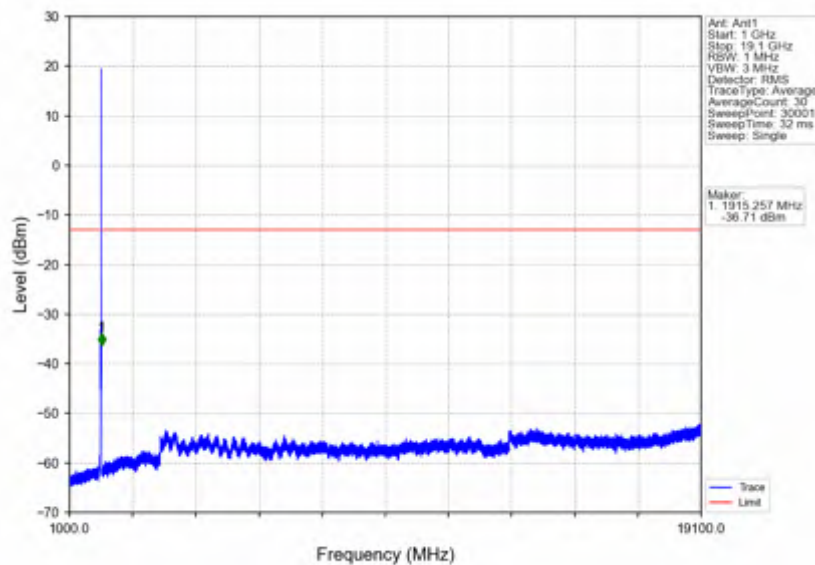
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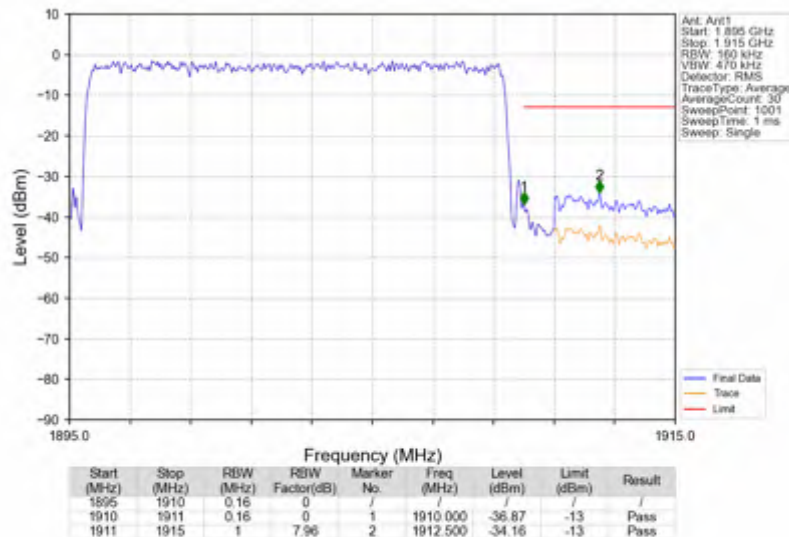
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1902.5MHz_Outer_Full



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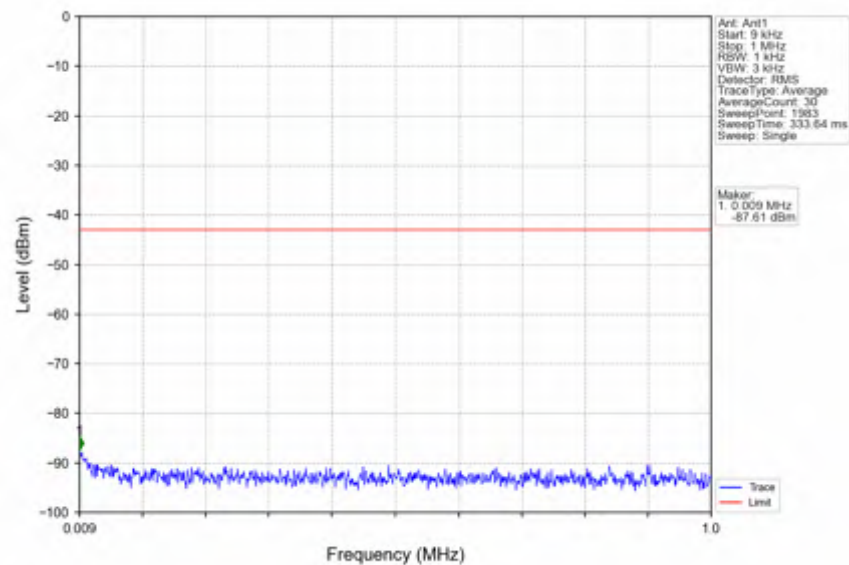
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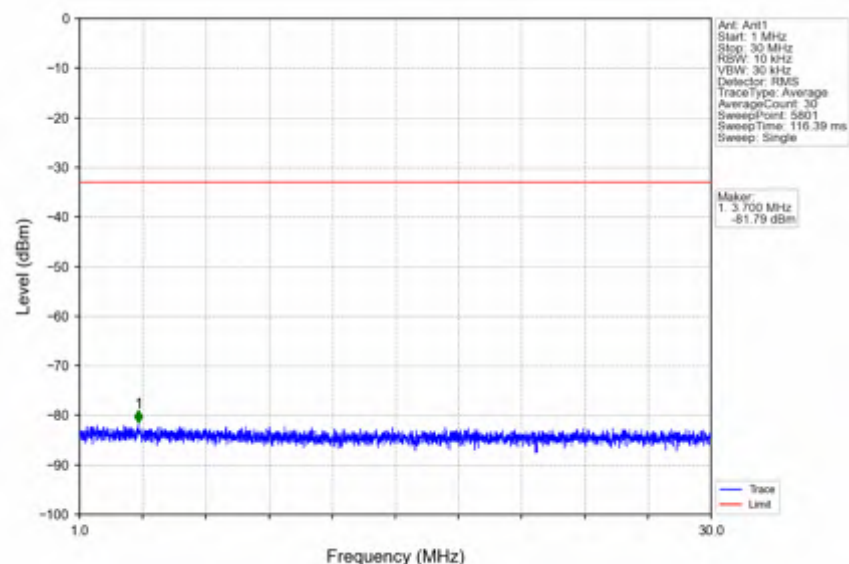
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n2	30kHz	SISO	NTNV	15MHz	CP-OFDM	QPSK	1902.5MHz	Outer	Full
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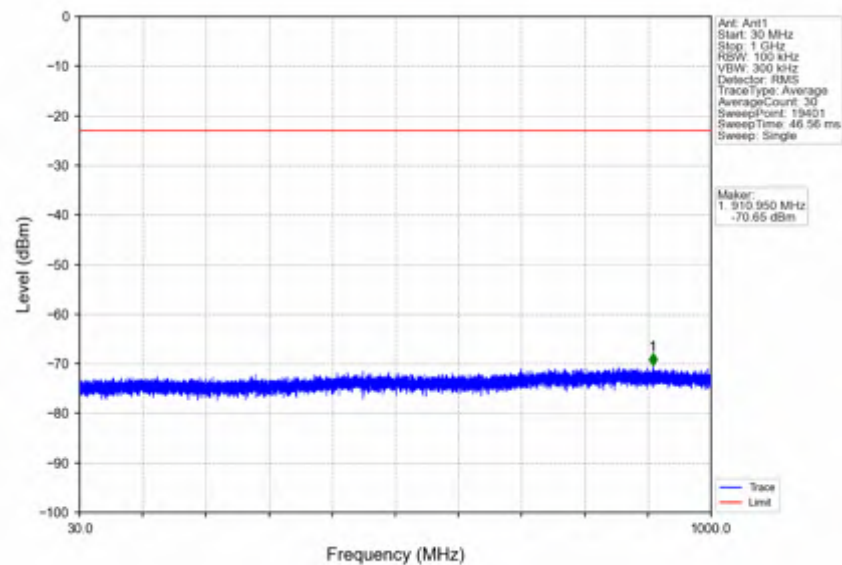


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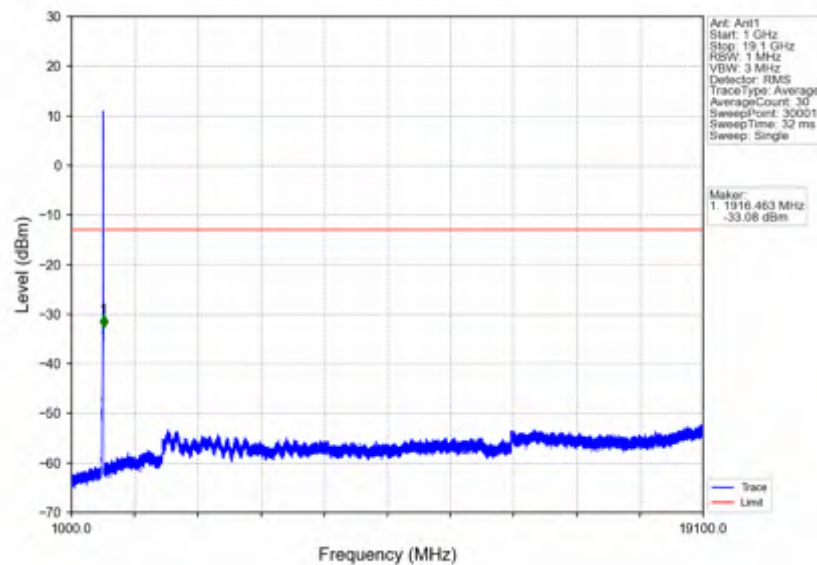
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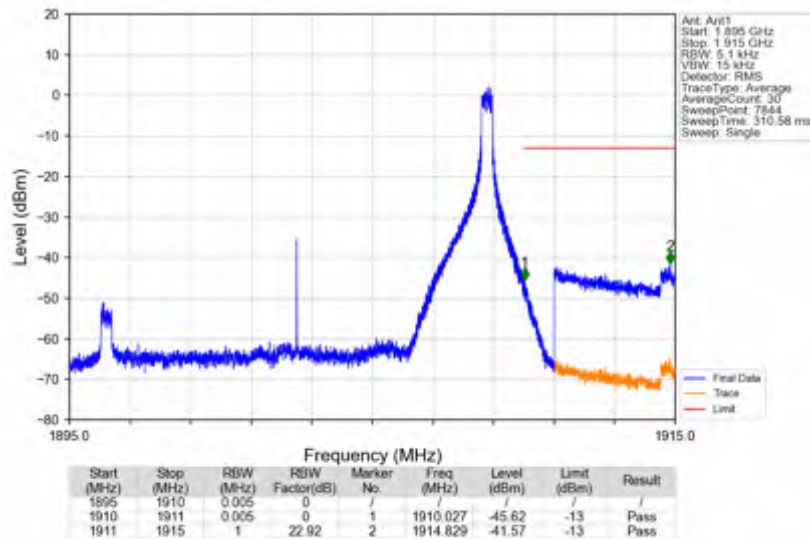
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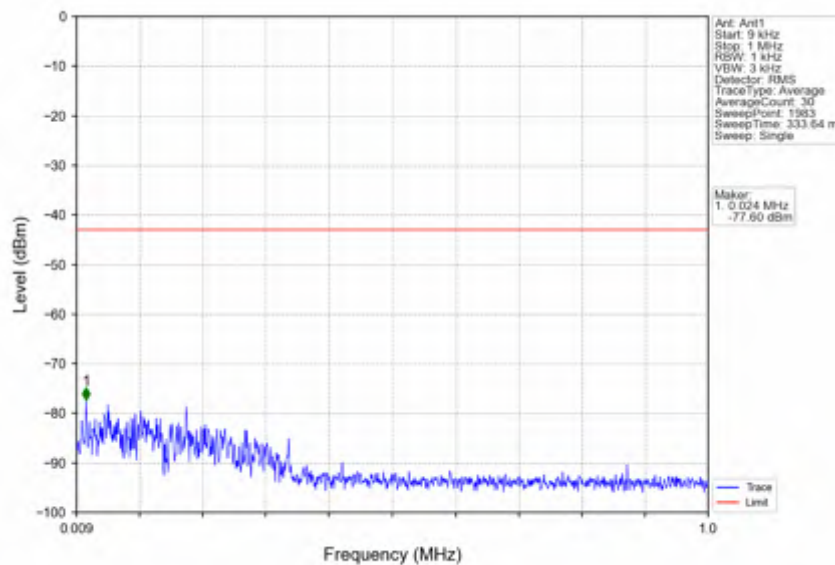
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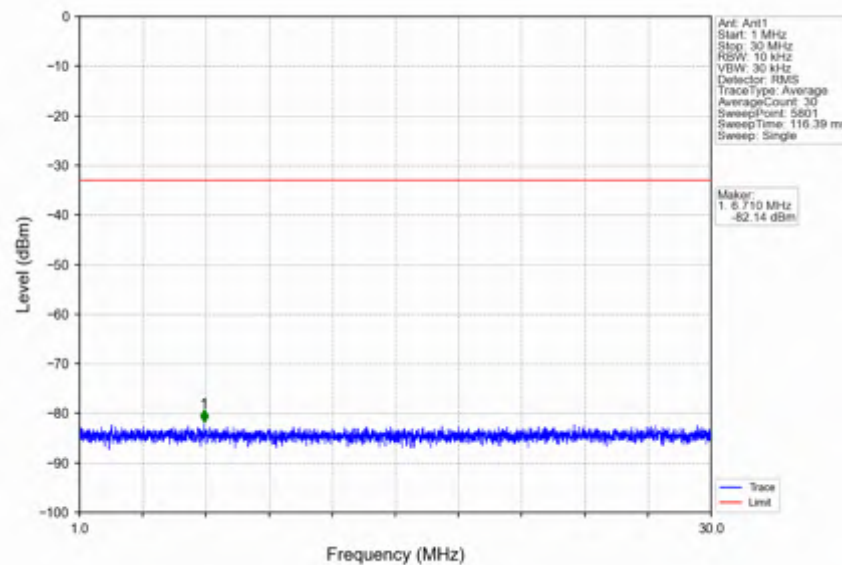


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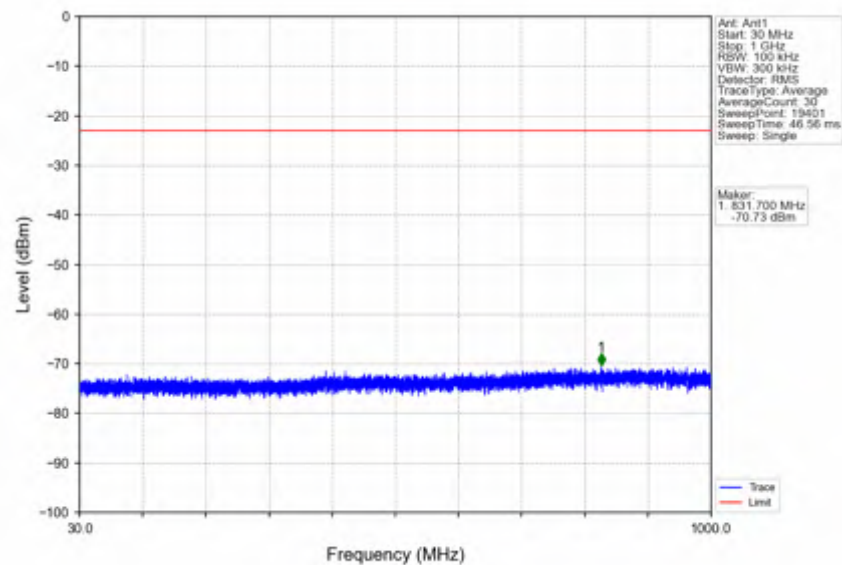
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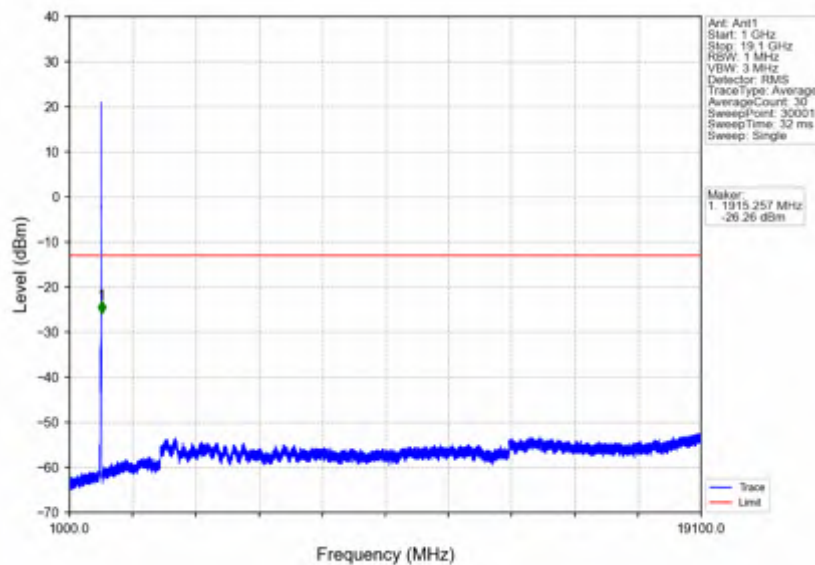
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1.7 30k_SISO_20MHz_NTNV

1.7.1 Test Result

5G NR n2 SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	1860	Edge 1RB Left	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
		Inner 1RB Left	Refer To Test Graph			Pass
	1880	Edge 1RB Left	Refer To Test Graph			Pass
		Edge 1RB Right	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	1860	Edge 1RB Left	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
		Inner 1RB Left	Refer To Test Graph			Pass
	1880	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	1860	Edge 1RB Left	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
		Inner 1RB Left	Refer To Test Graph			Pass
	1880	Edge 1RB Left	Refer To Test Graph			Pass
		Edge 1RB Right	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass



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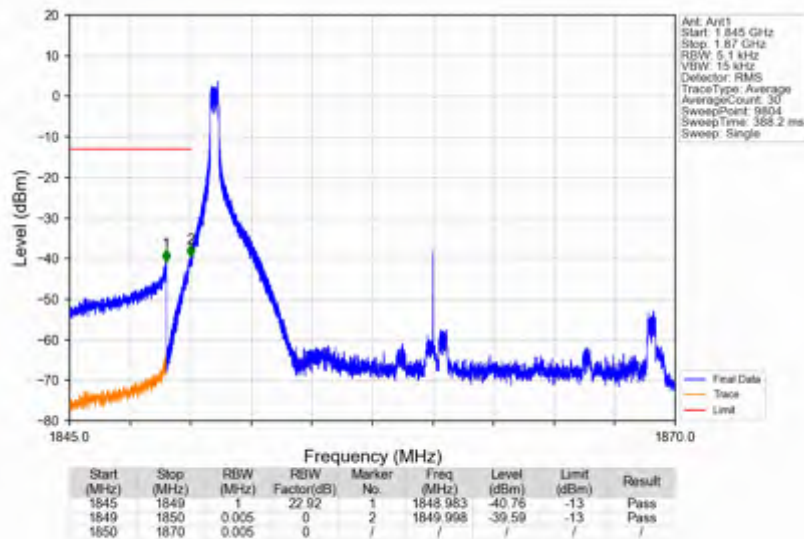
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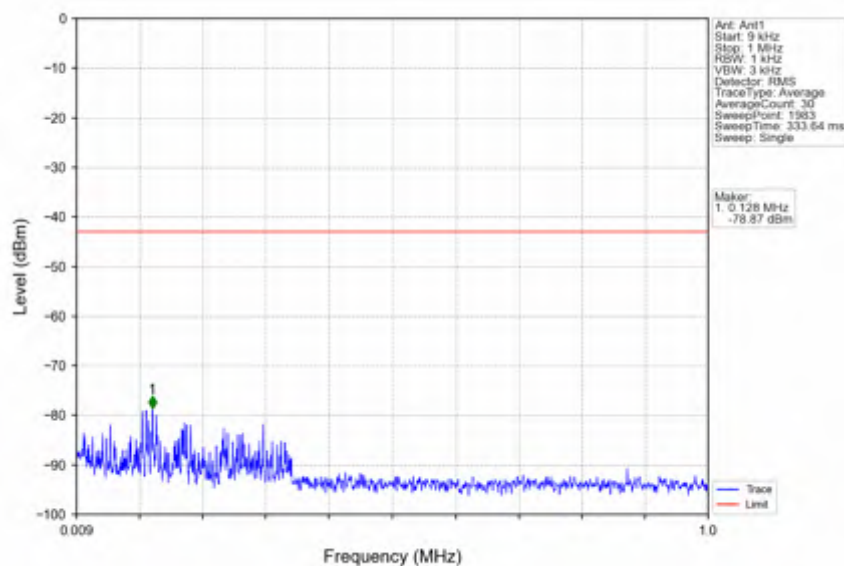
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1.7.2 Test Graph

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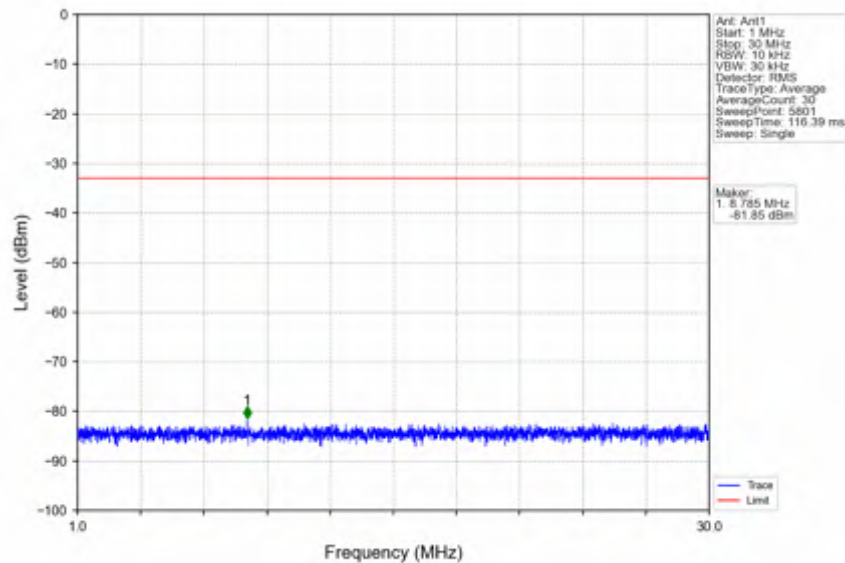
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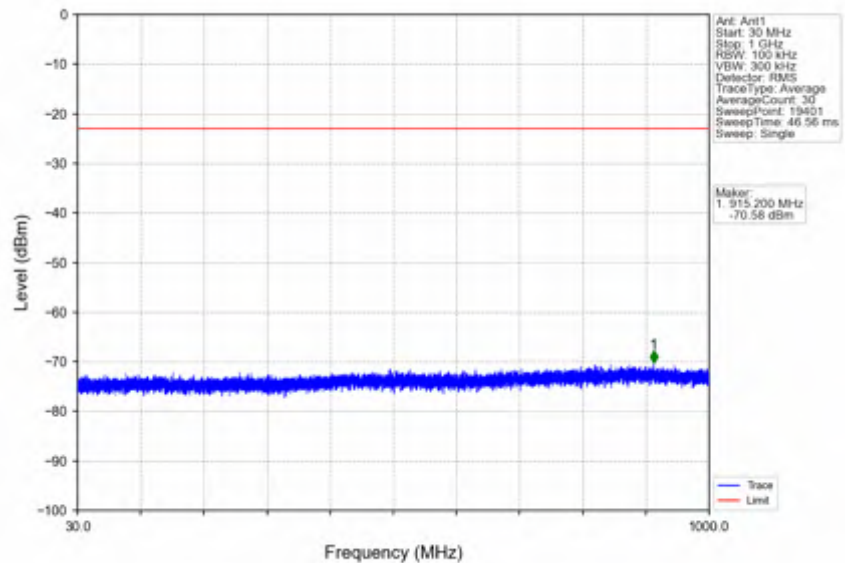
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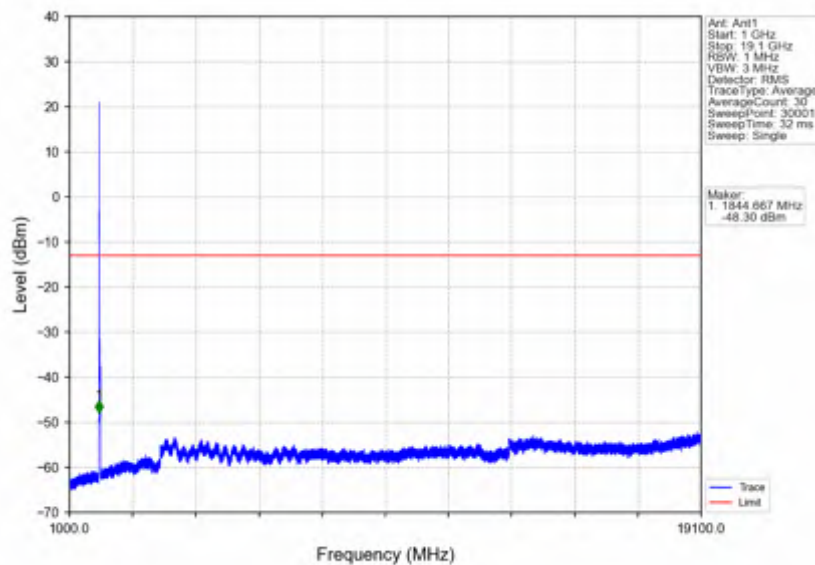
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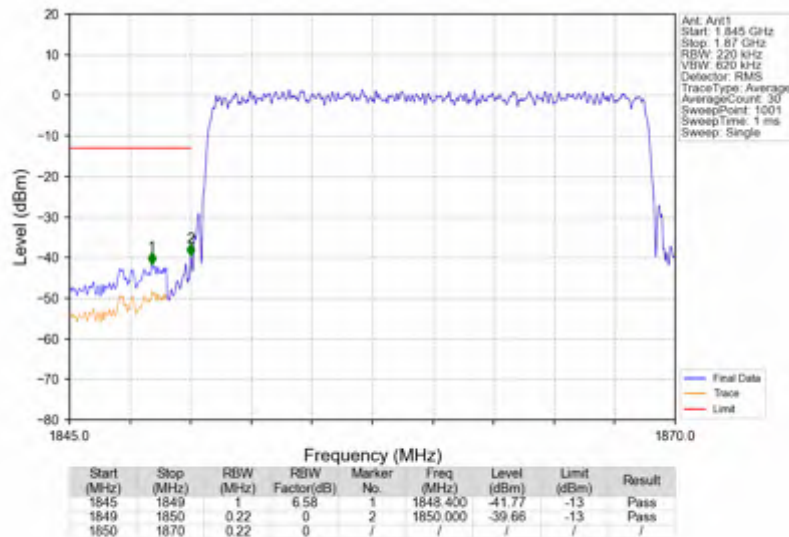
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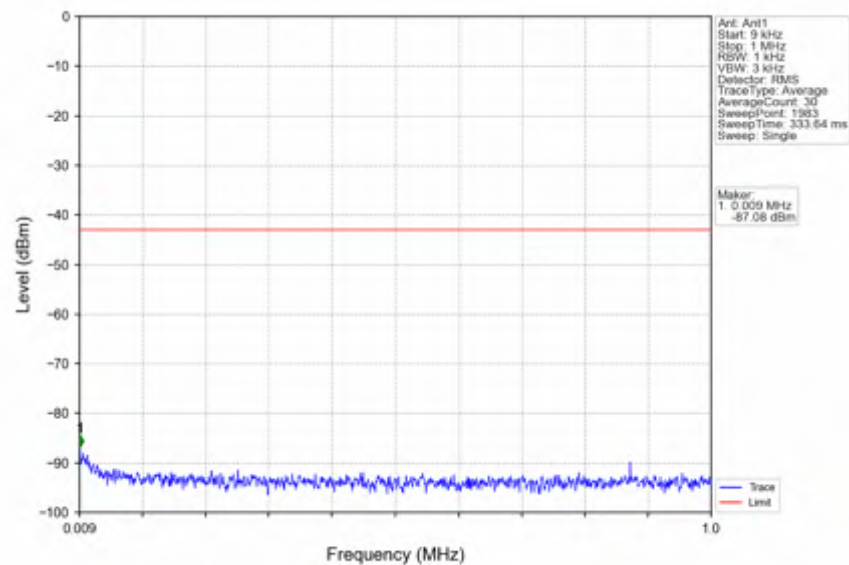
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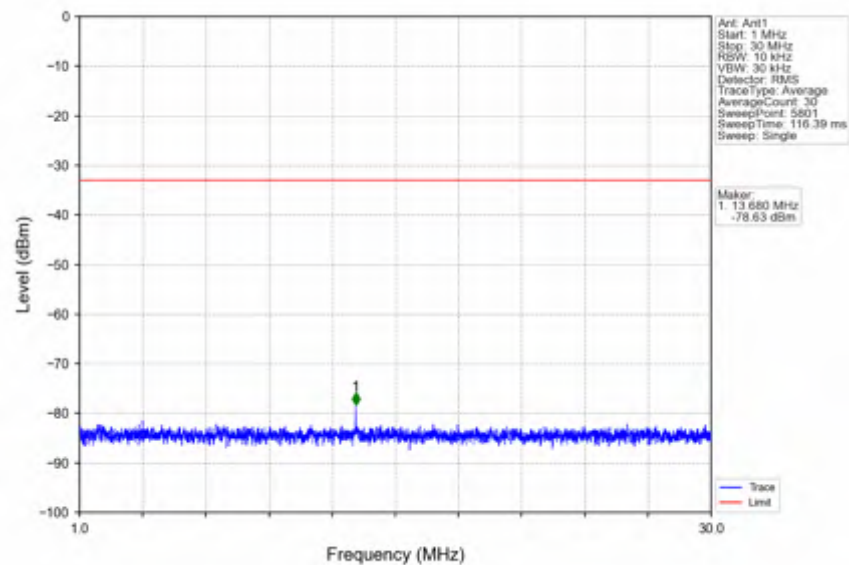
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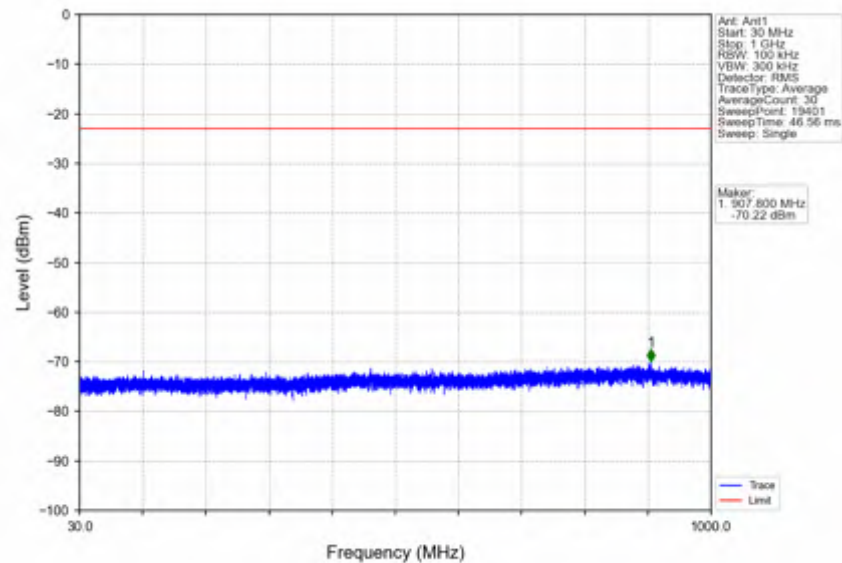
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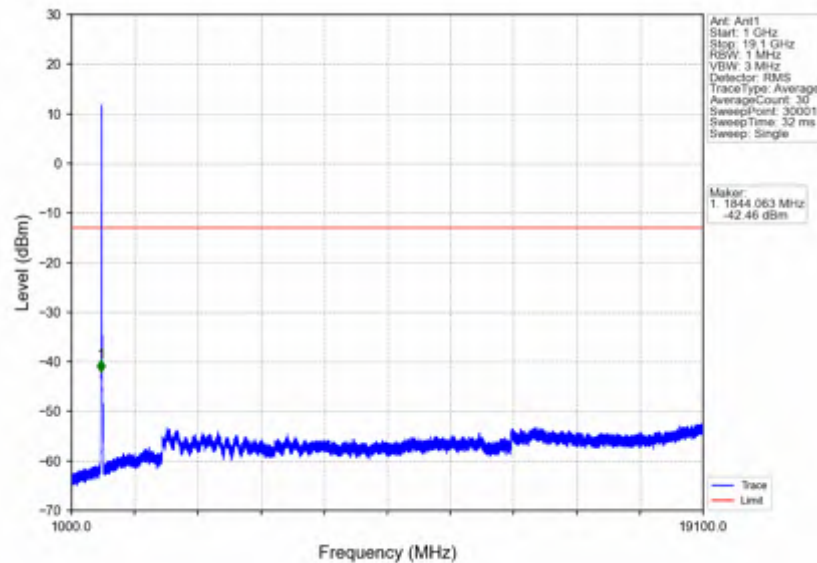
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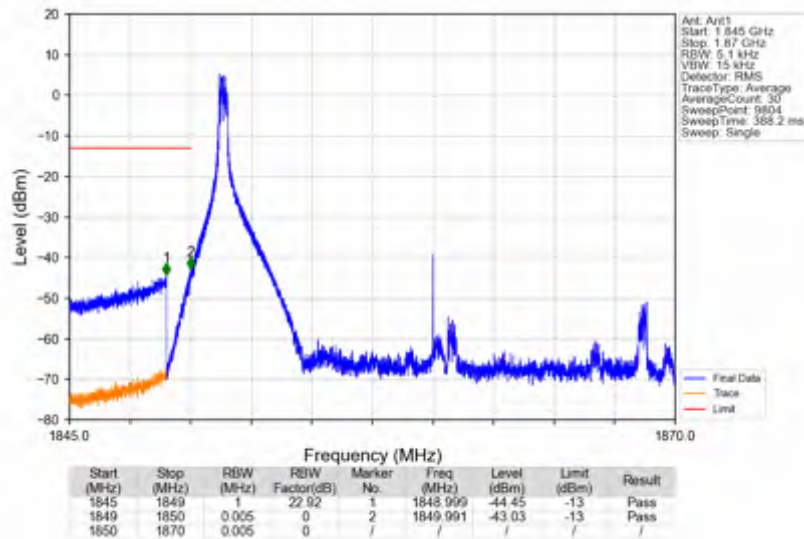
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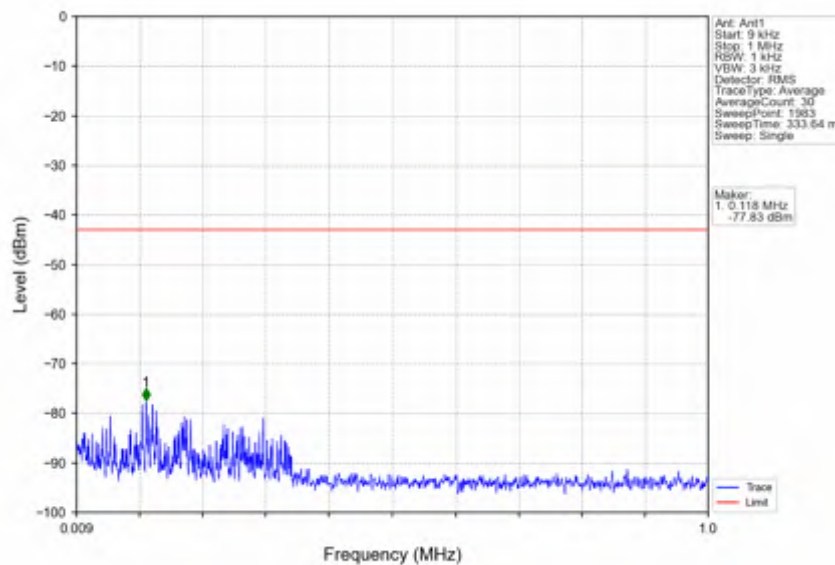
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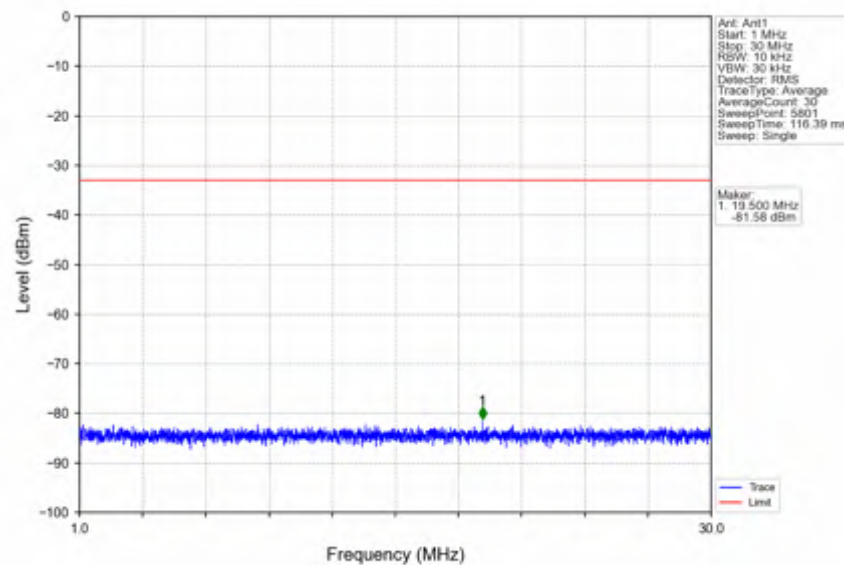
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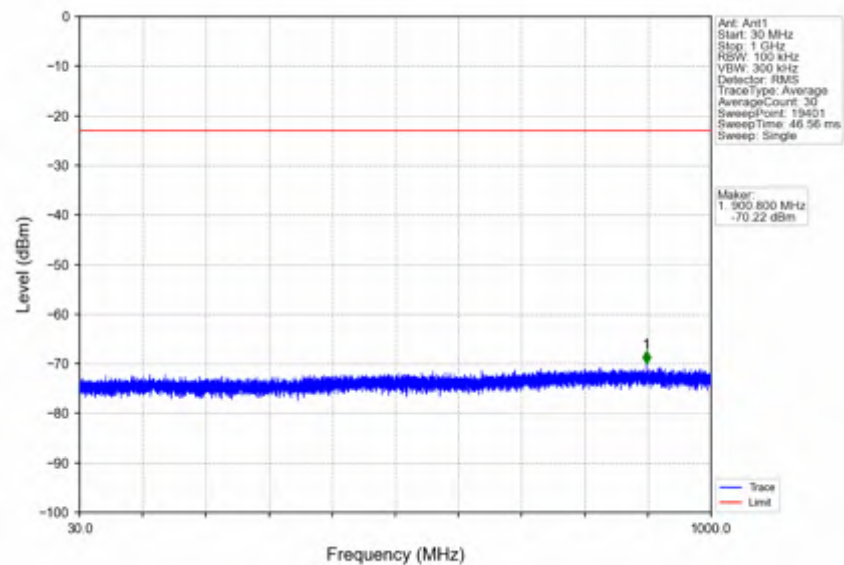
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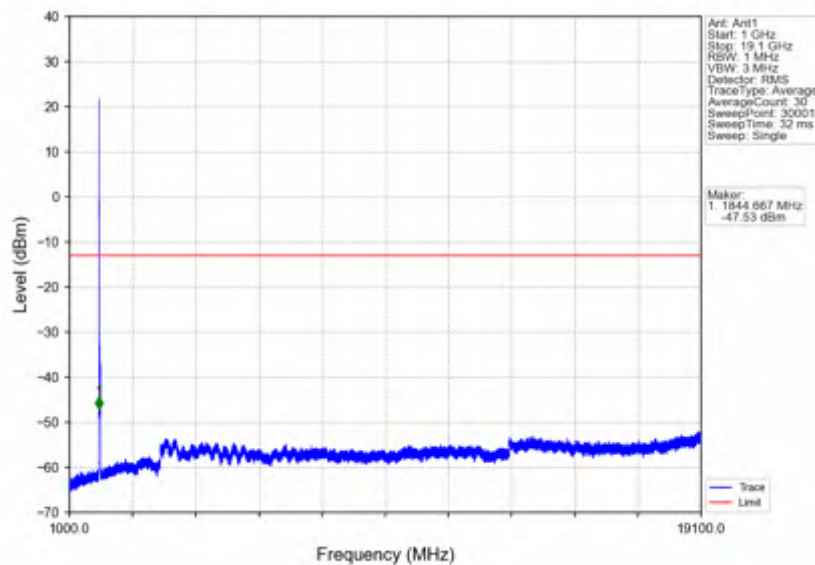
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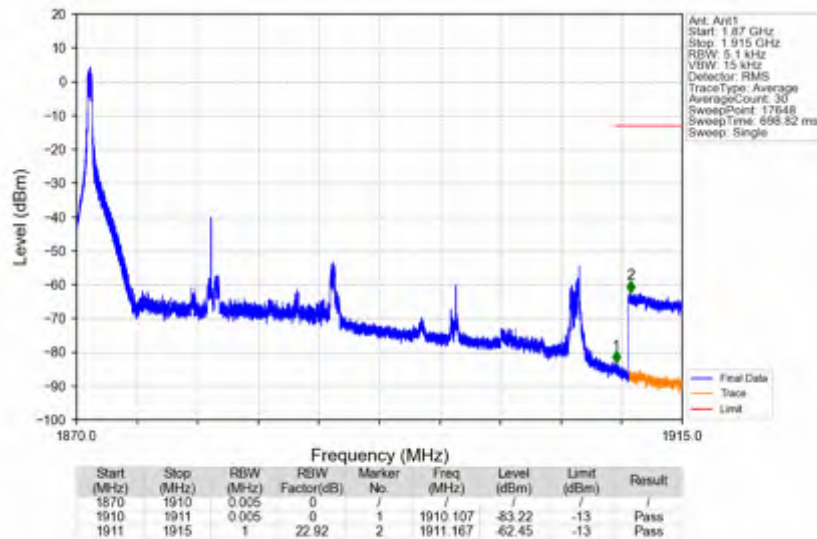
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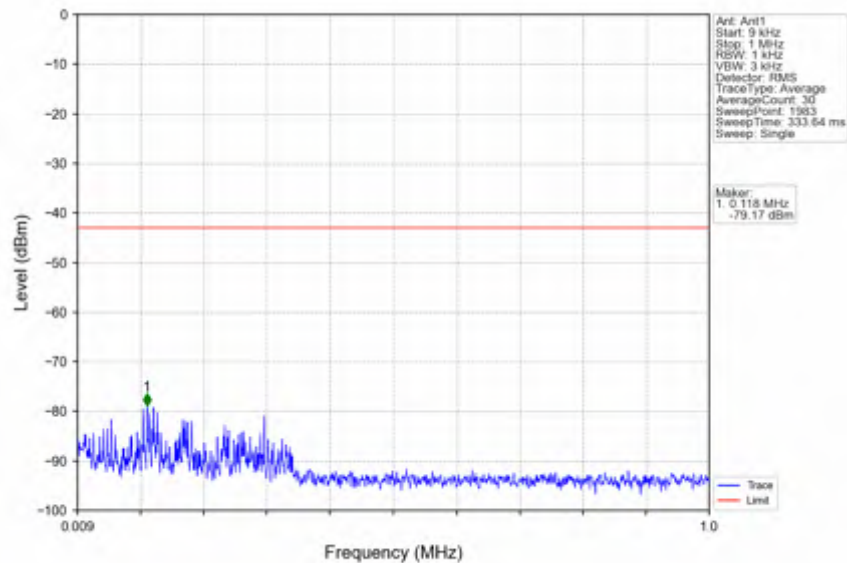
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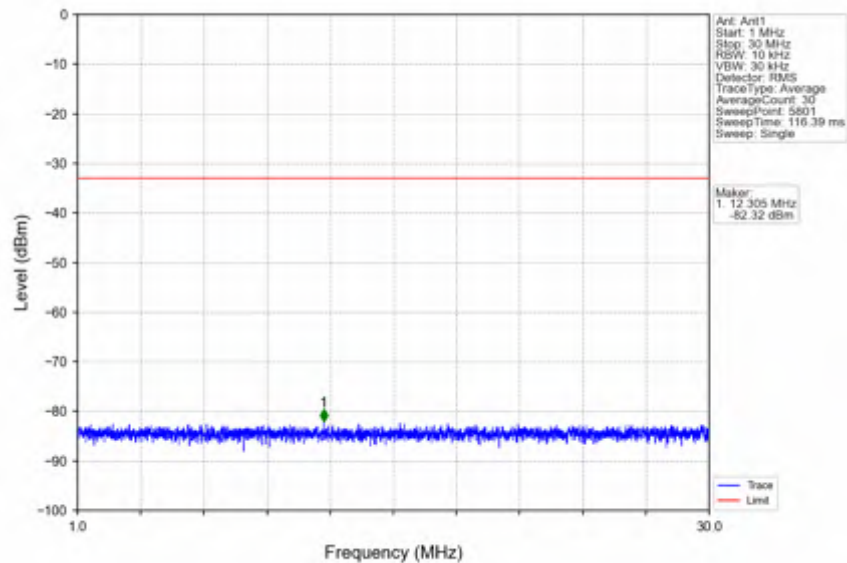
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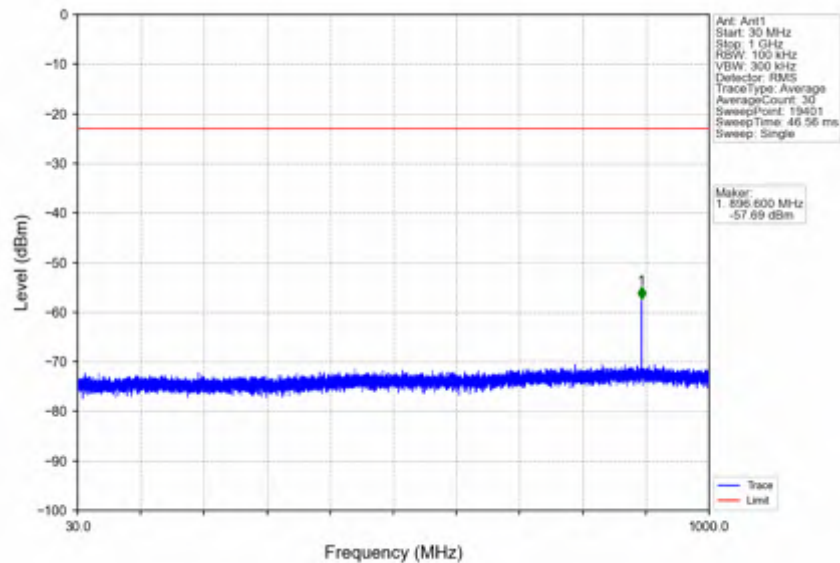
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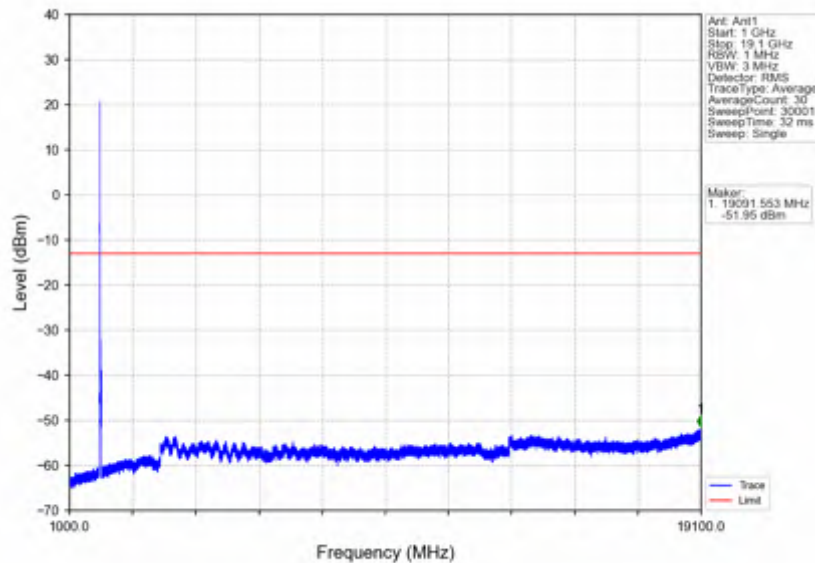
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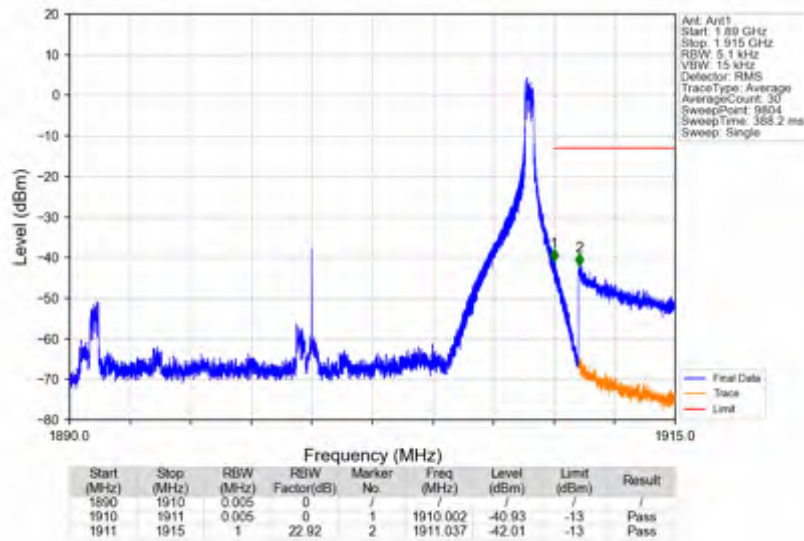
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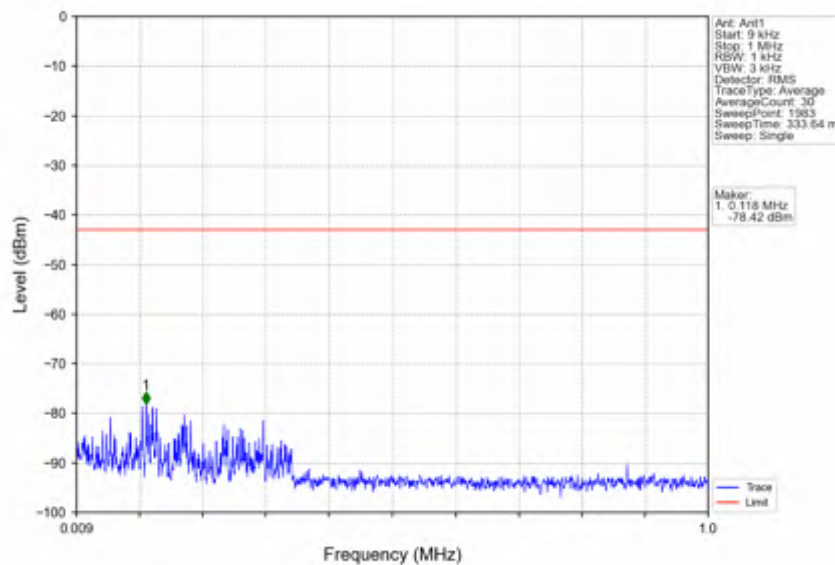
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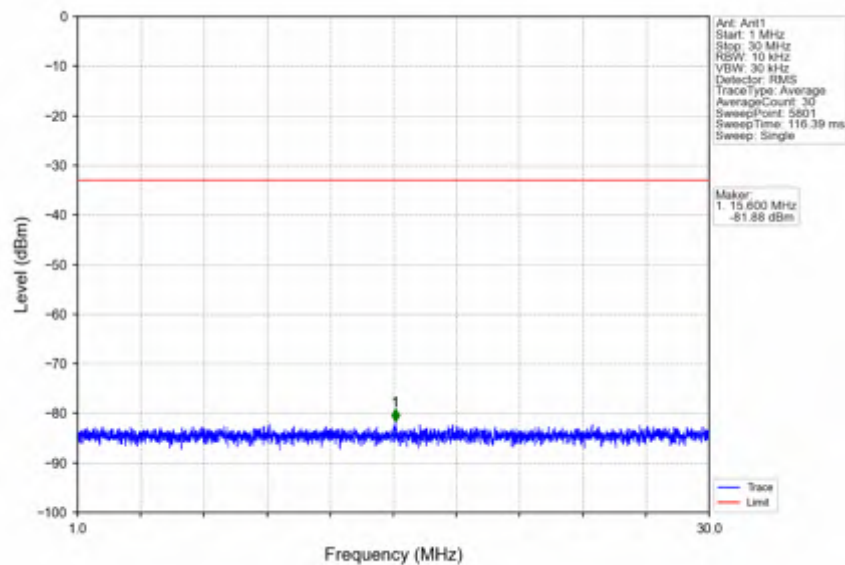
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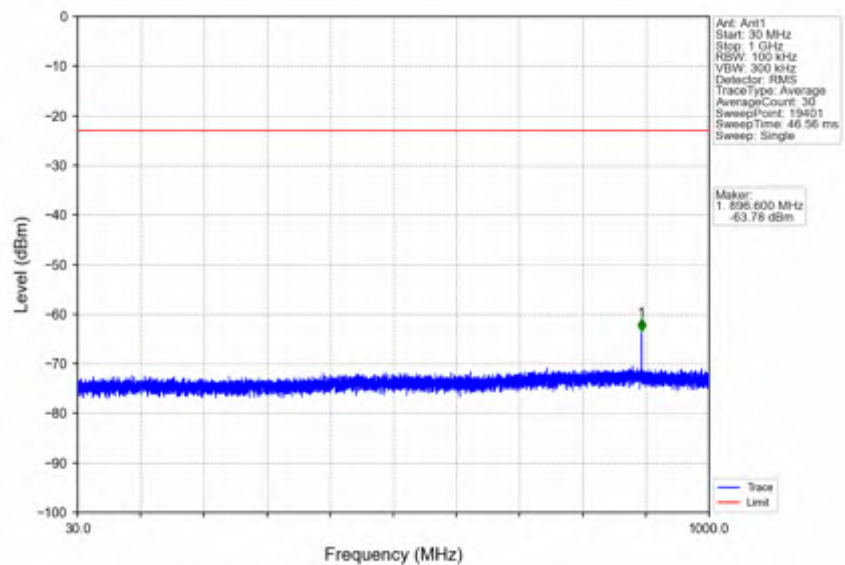
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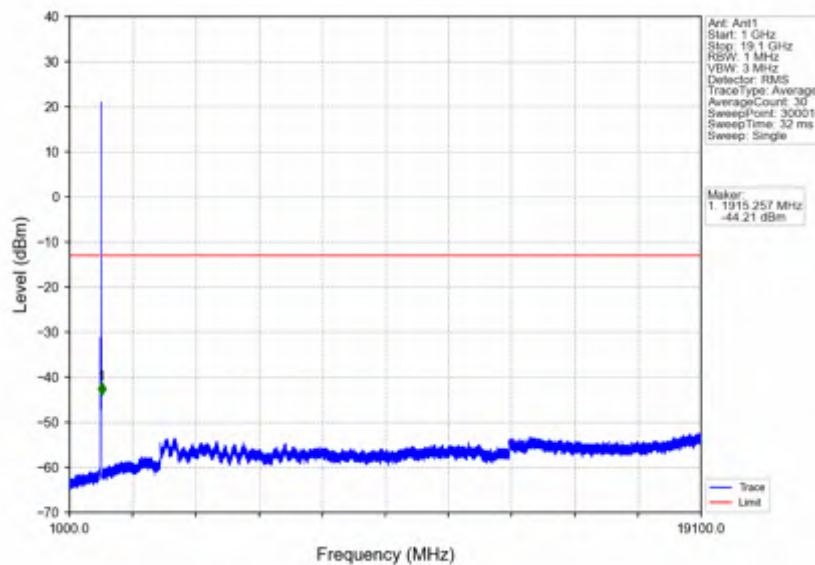
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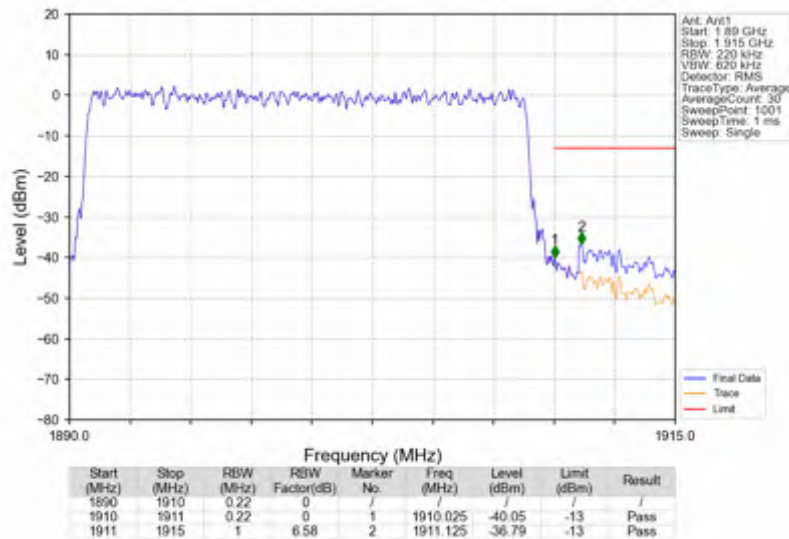
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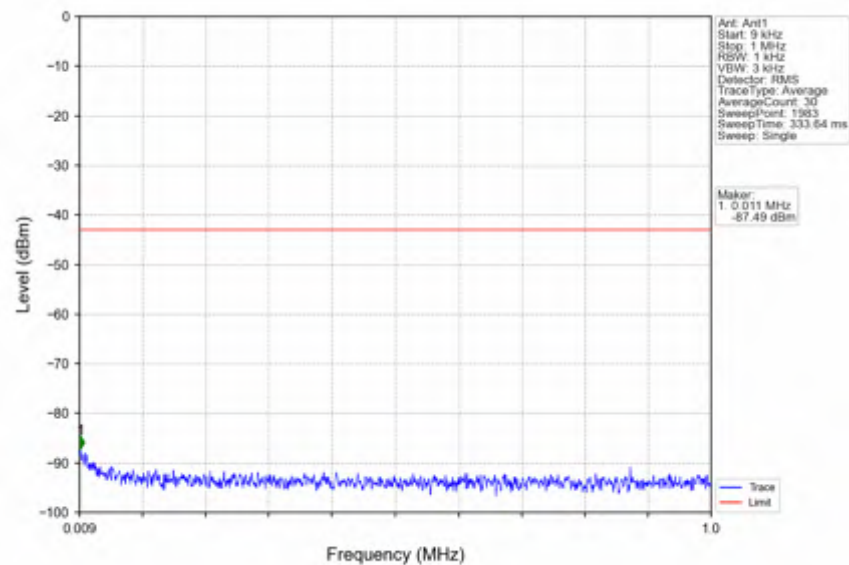


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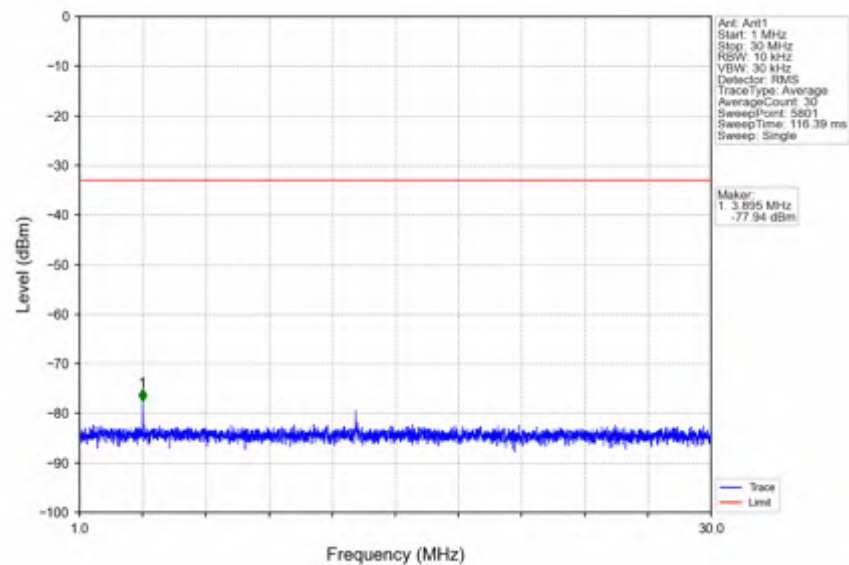
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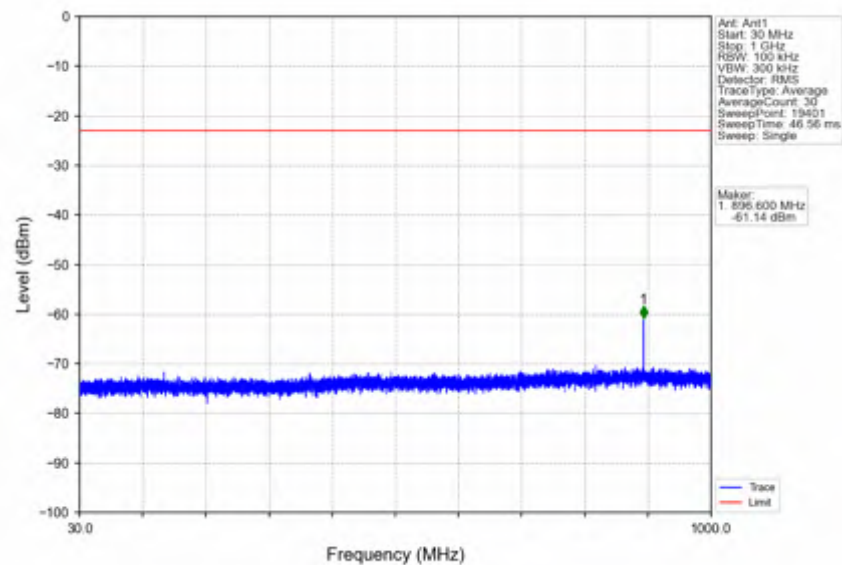
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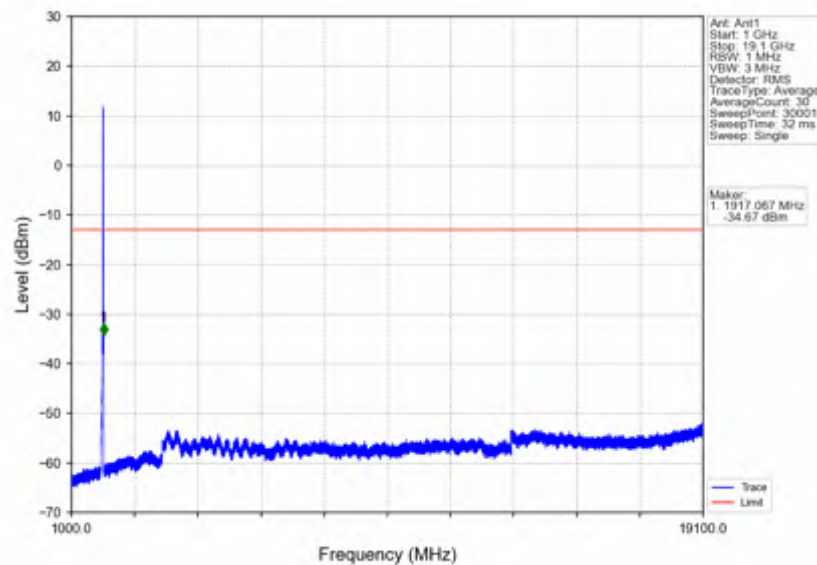
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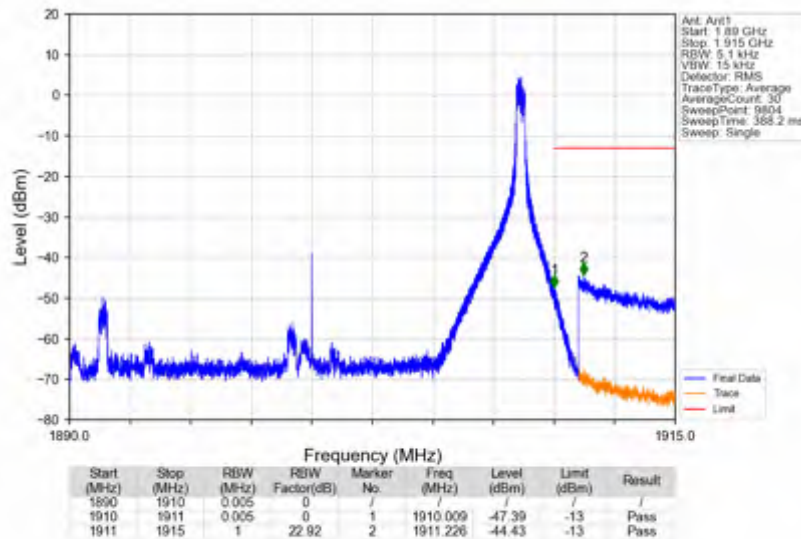
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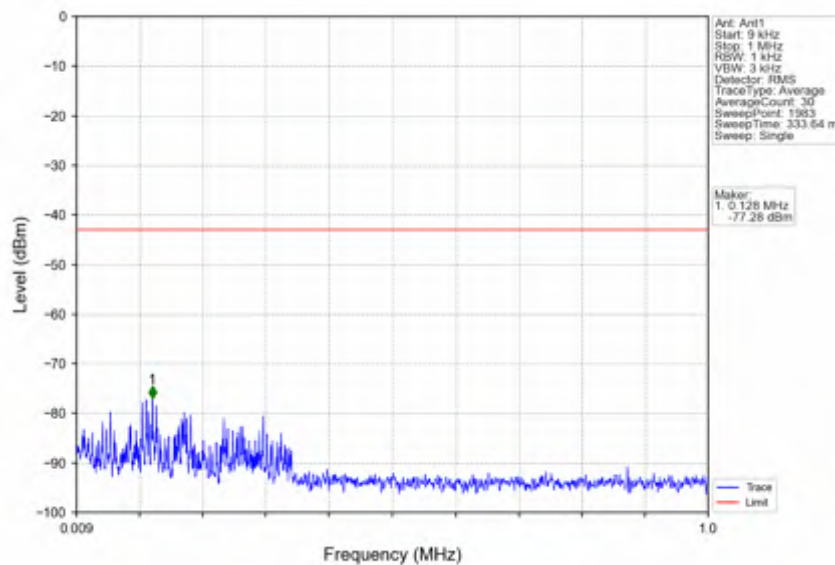
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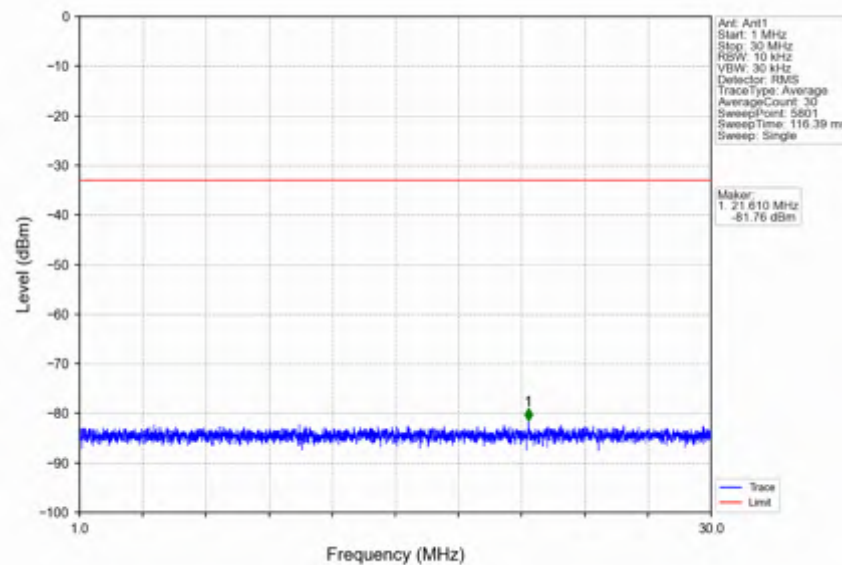


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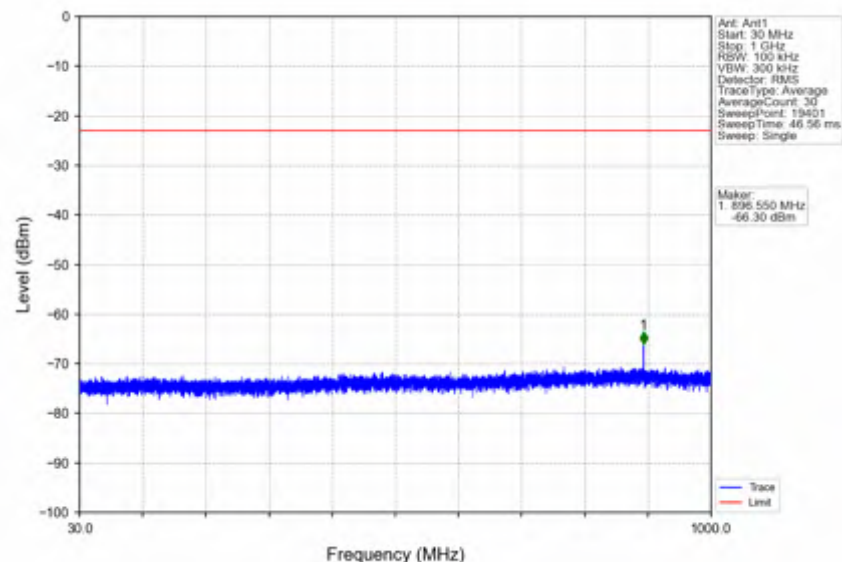
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1900MHz_Inner_1RB_Right



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1900MHz_Inner_1RB_Right



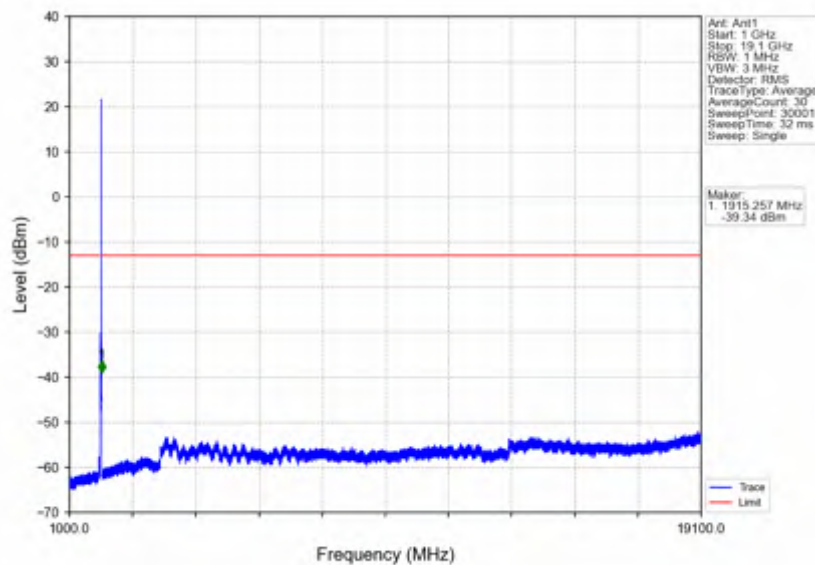
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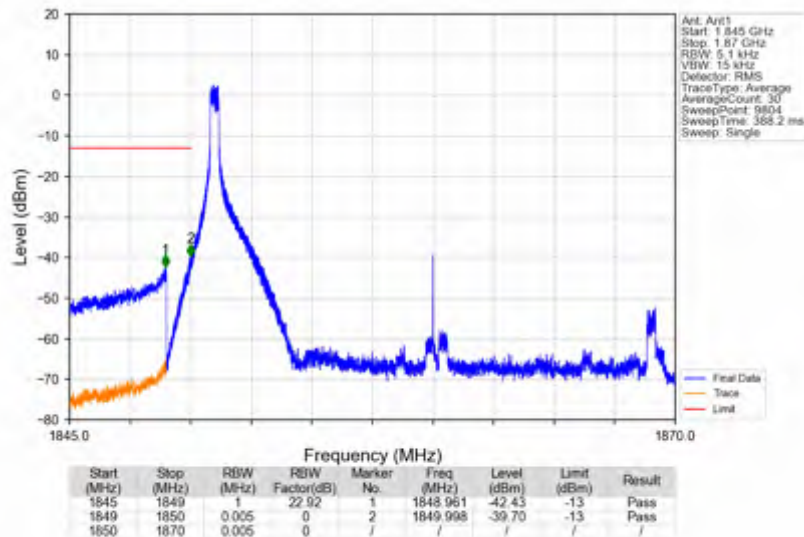
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1860MHz_Edge_1RB_Left



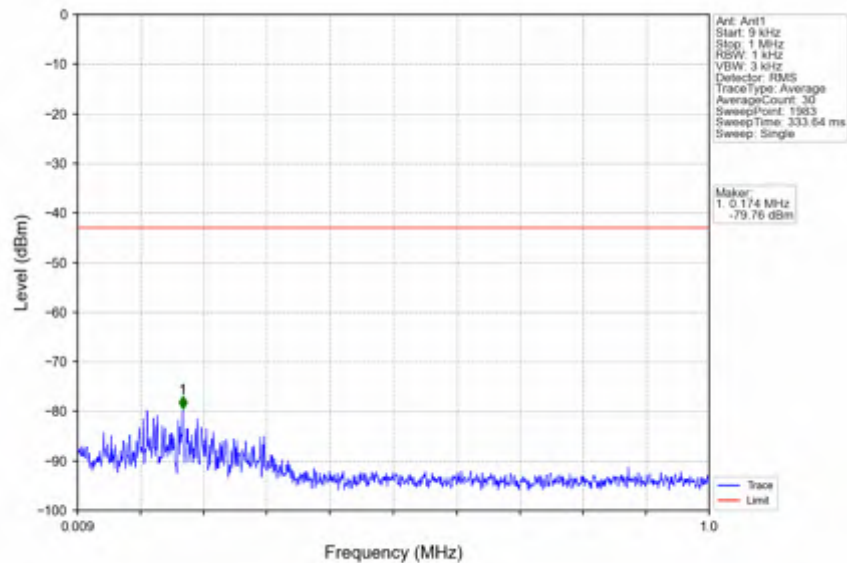
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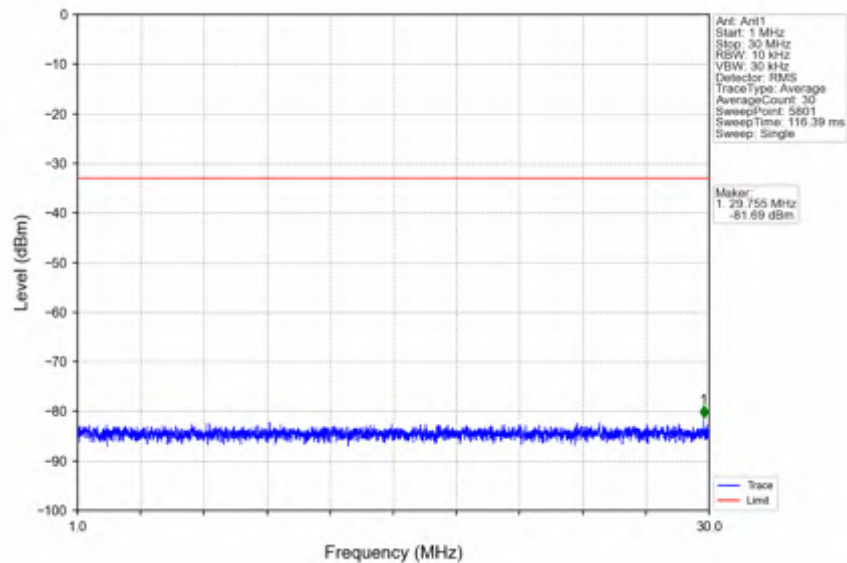
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1860MHz_Edge_1RB_Left



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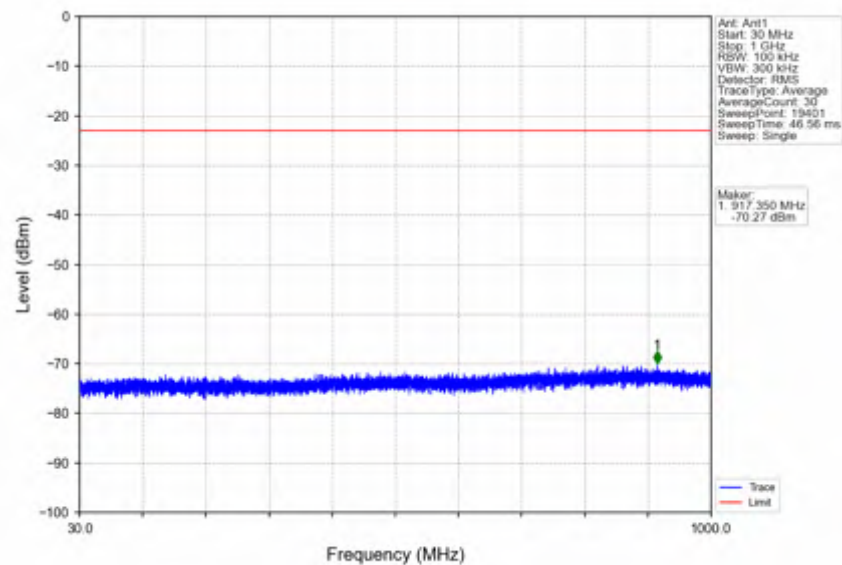
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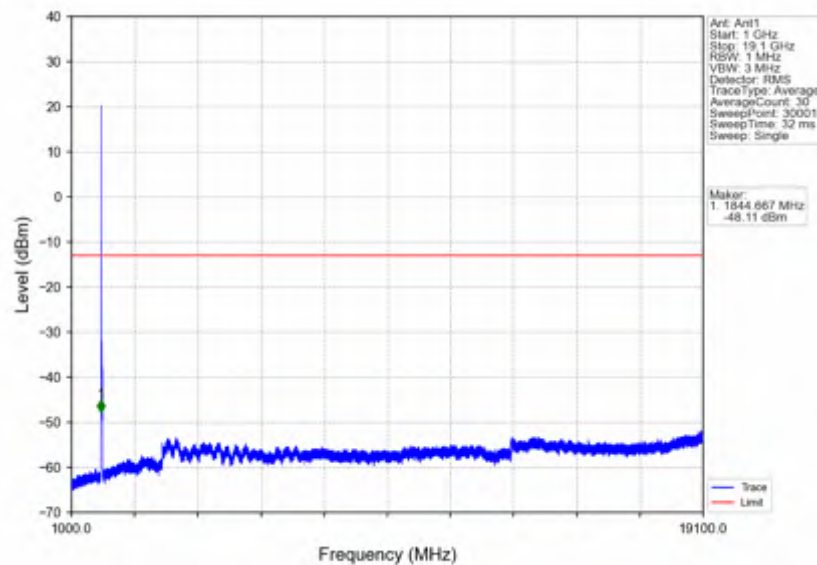
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n2 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 1860MHz Edge 1RB Left

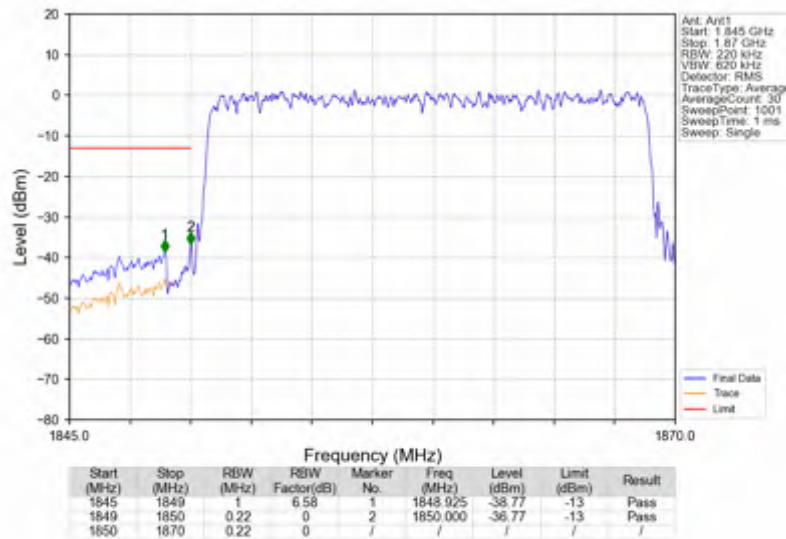


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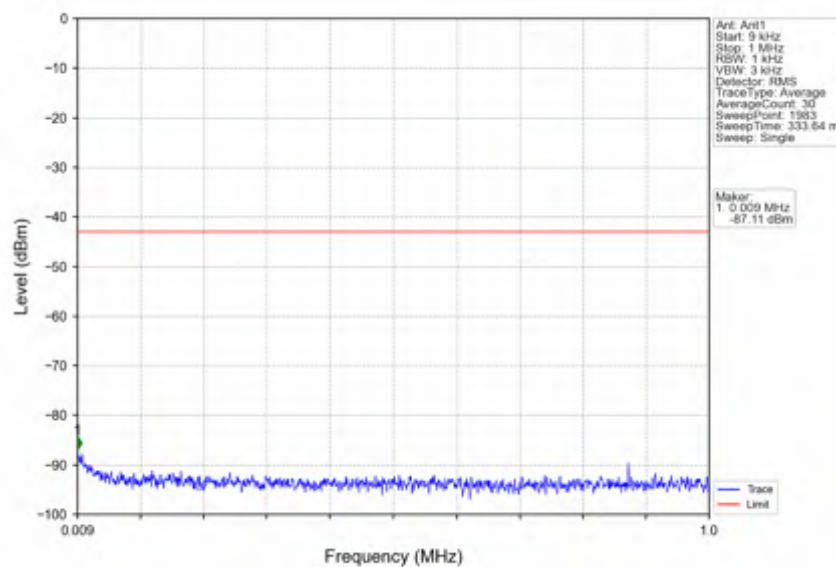
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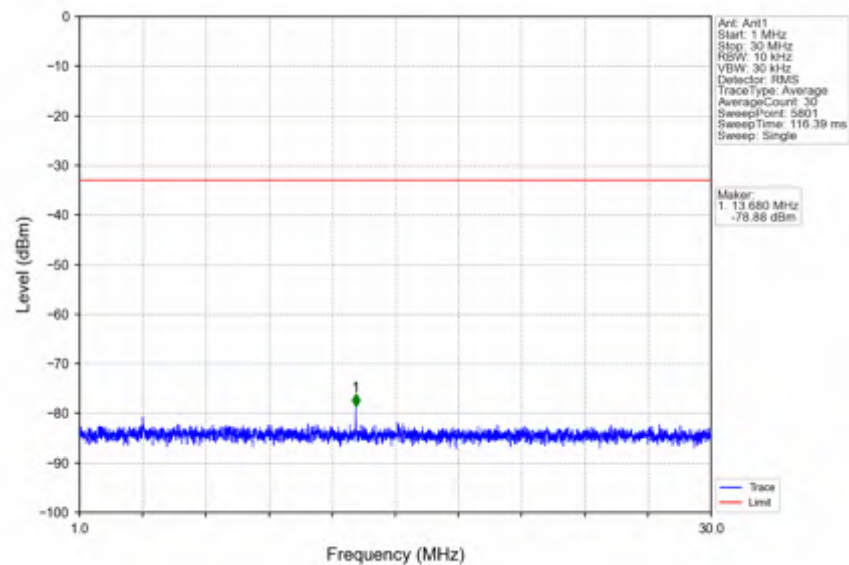
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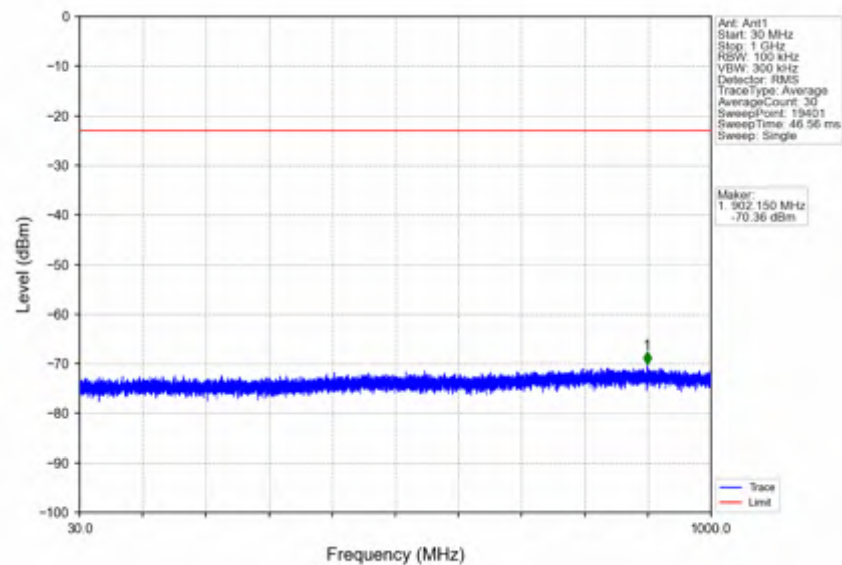
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1860MHz_Outer_Full



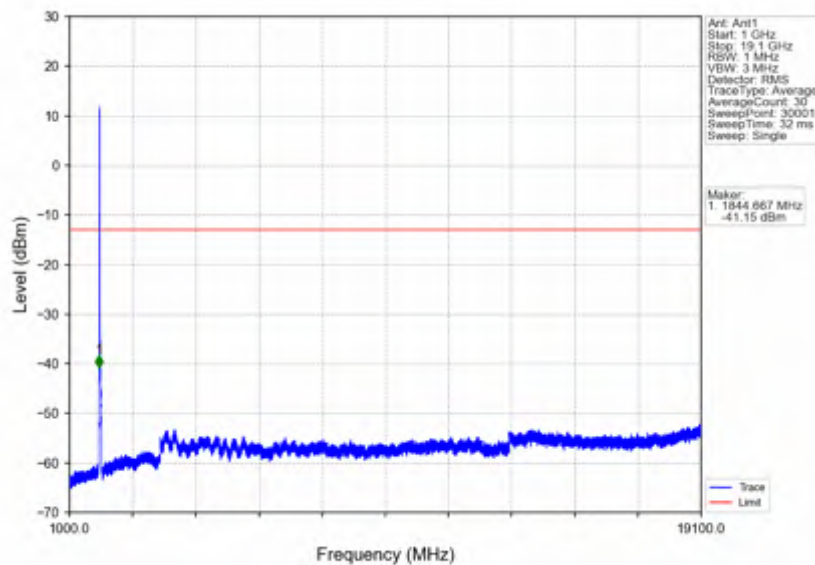
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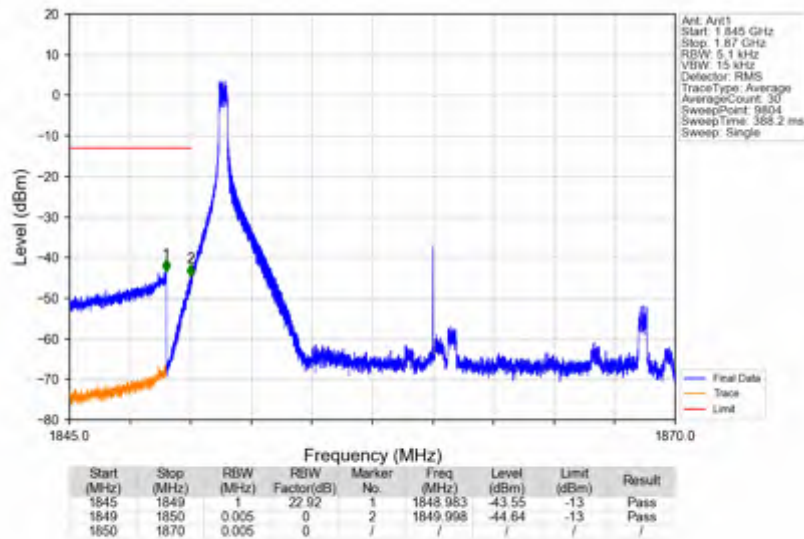
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1860MHz_Inner_1RB_Left



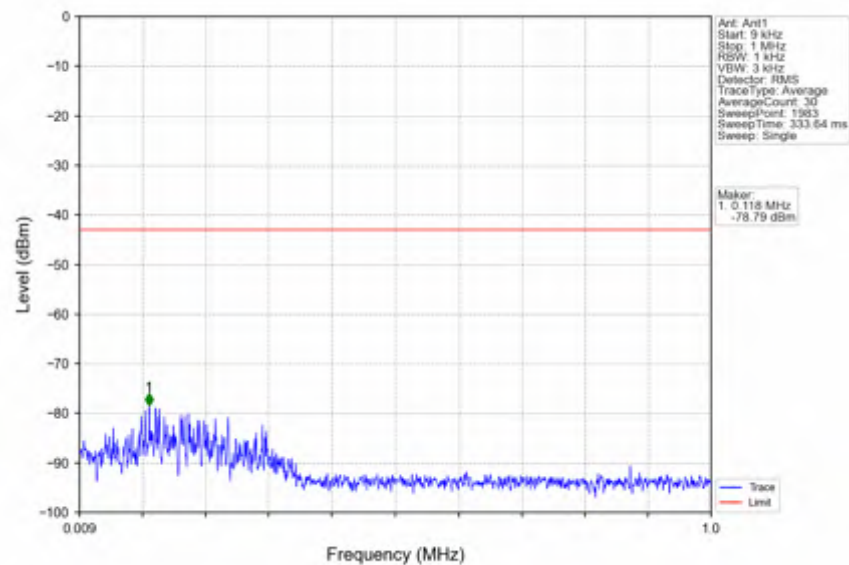
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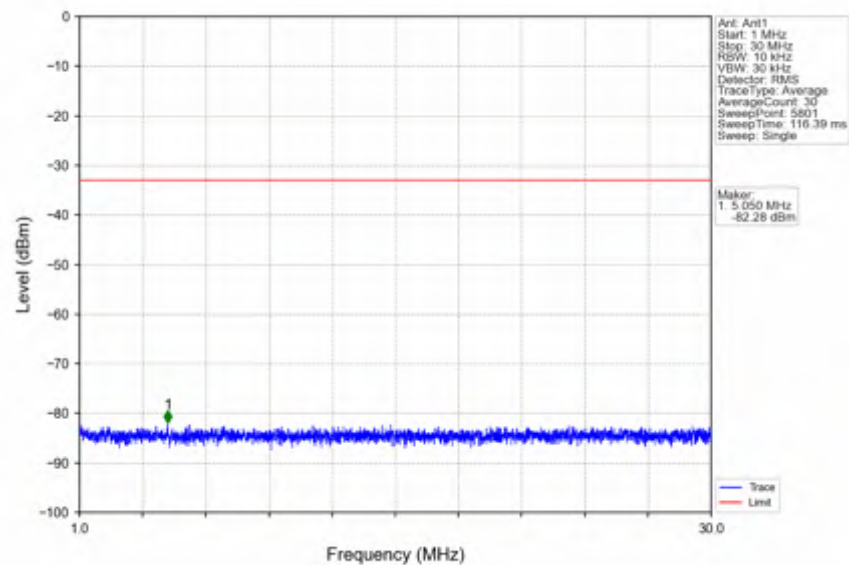
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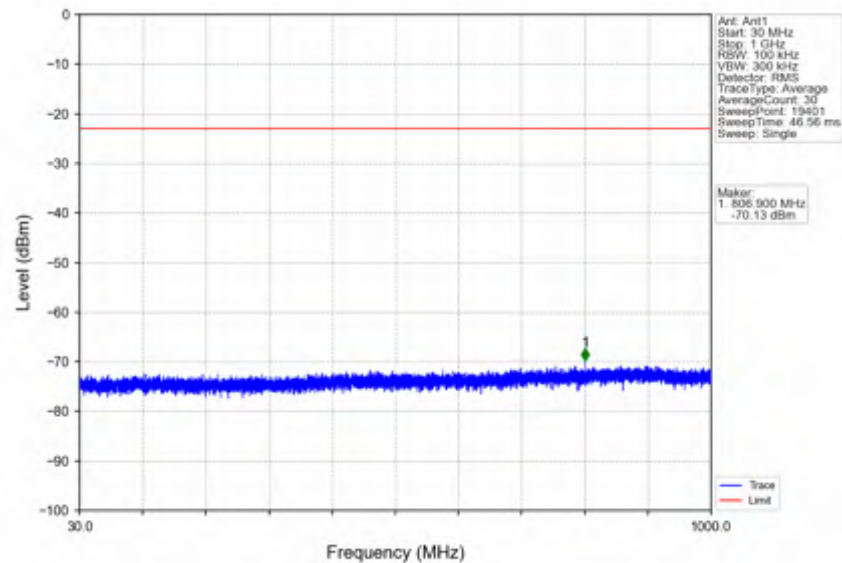


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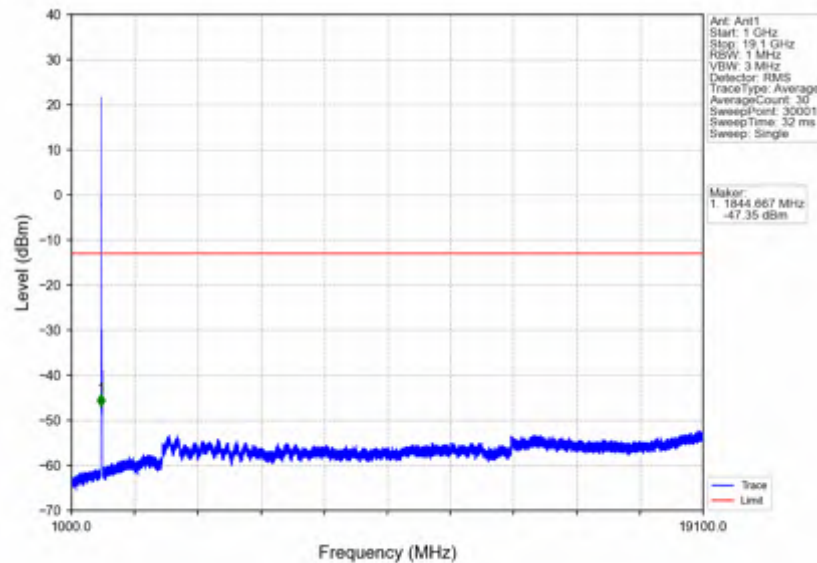
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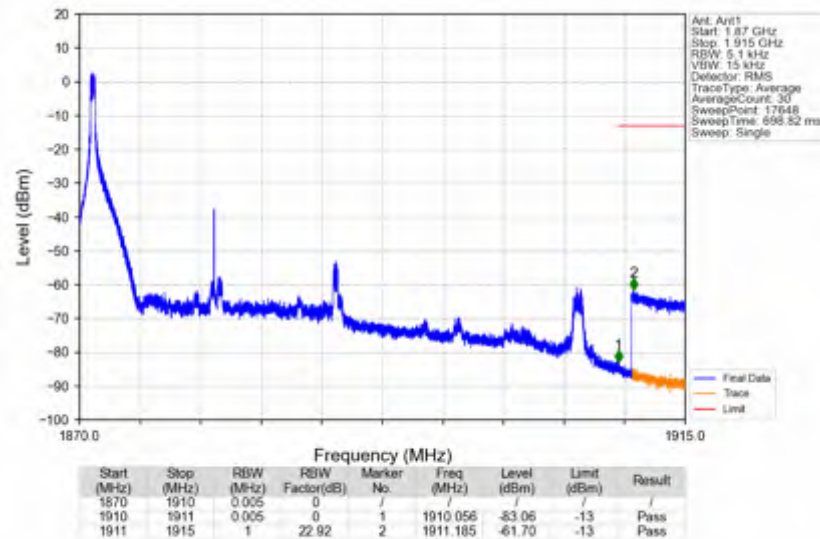
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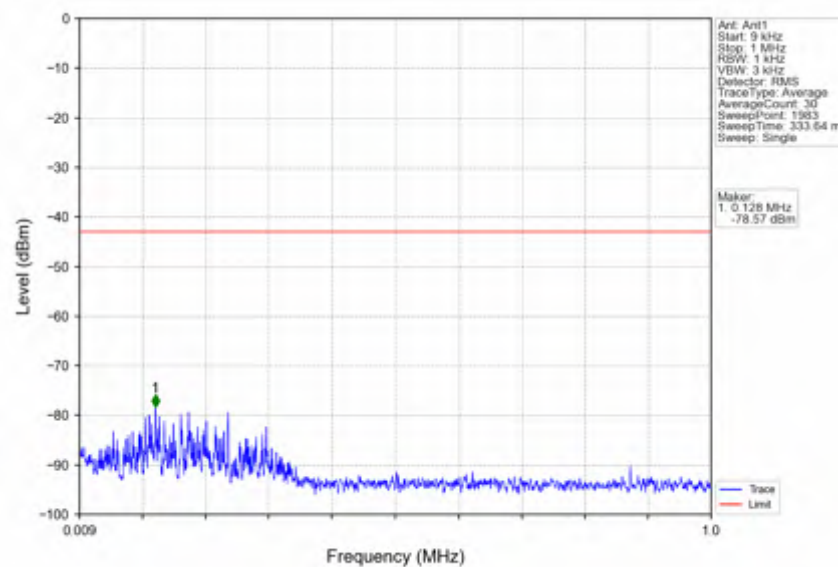
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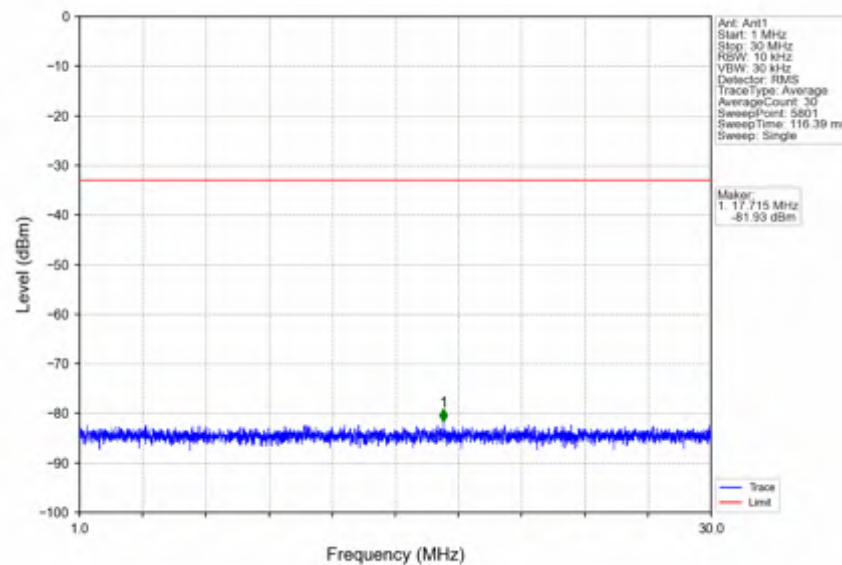
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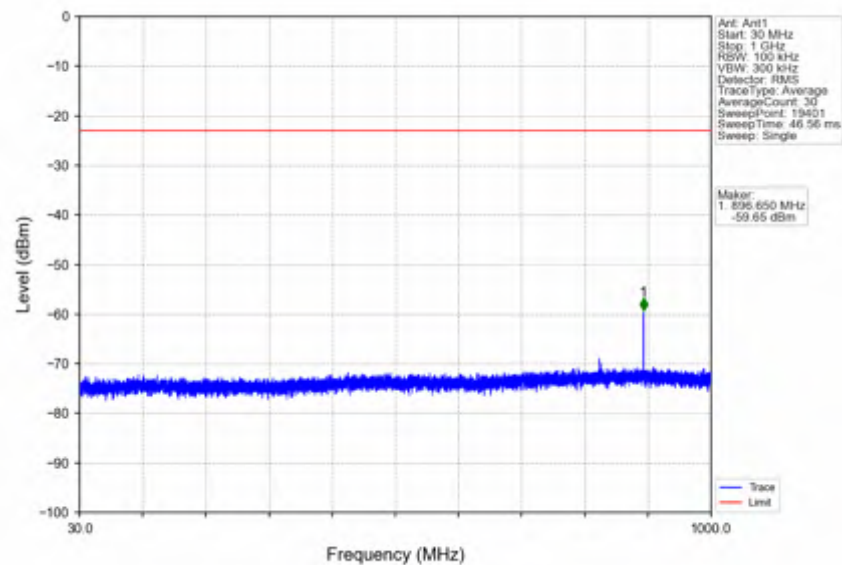
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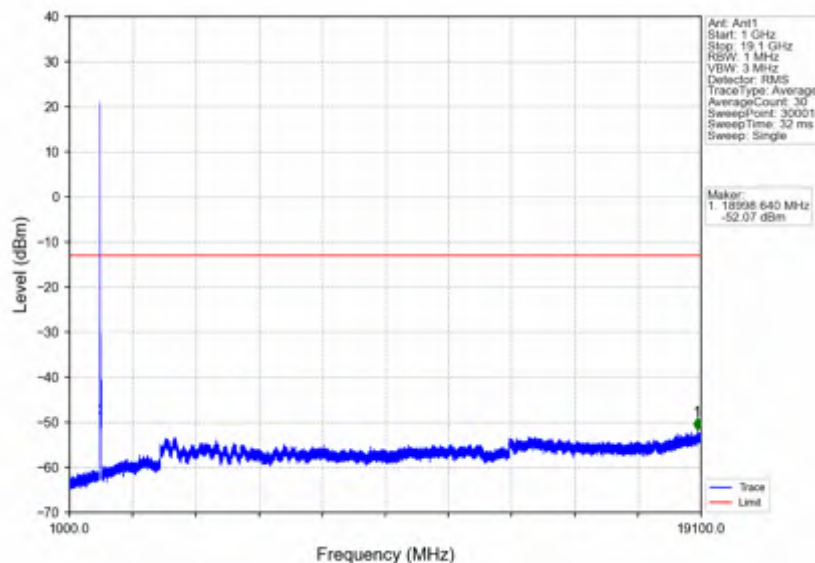
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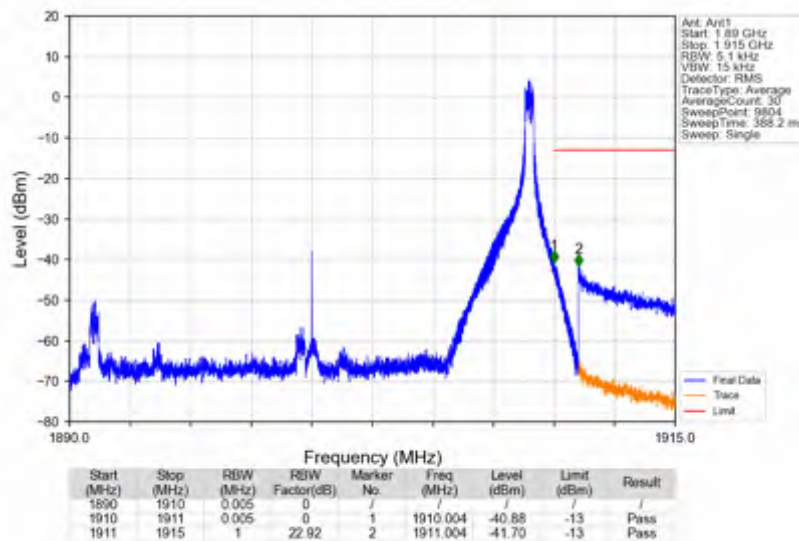
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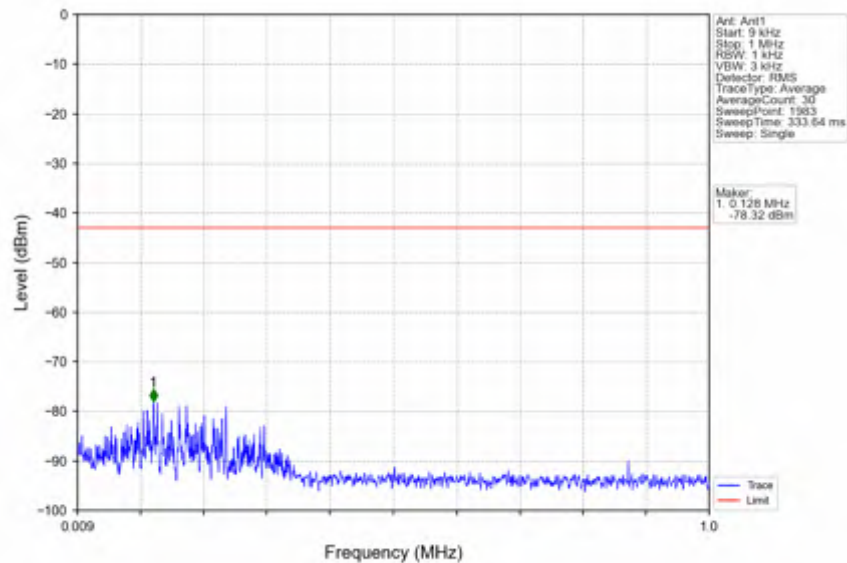
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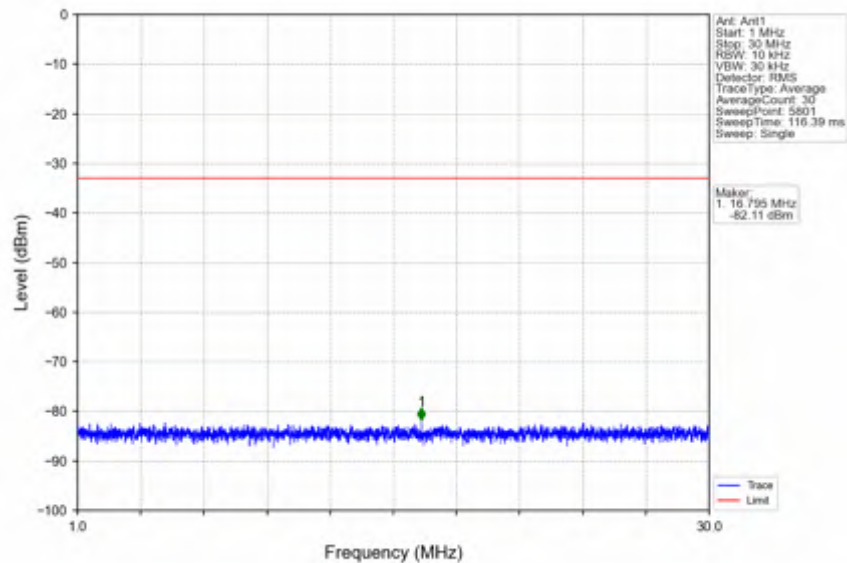
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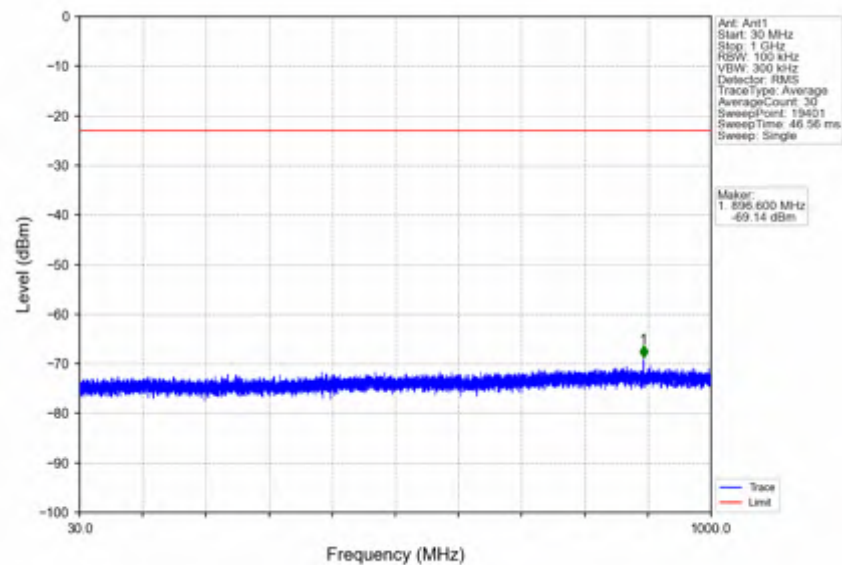
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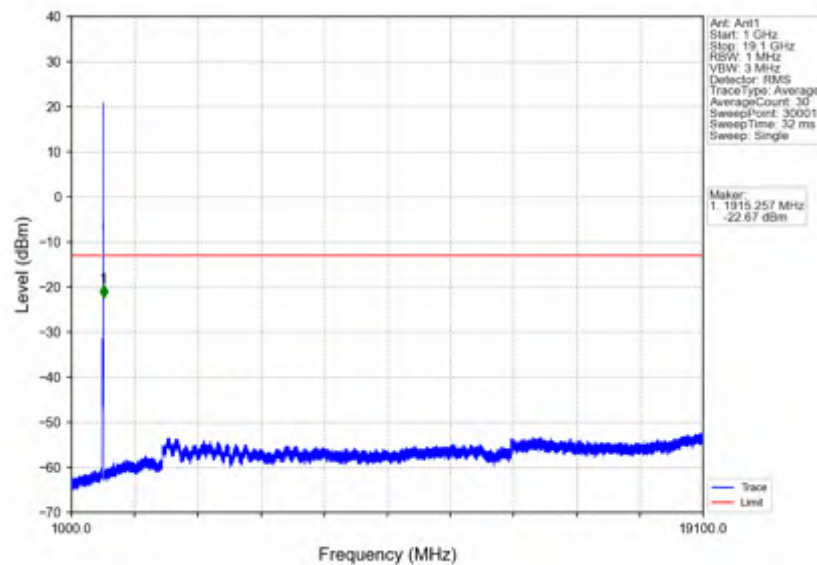
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1900MHz_Edge_1RB_Right



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1900MHz_Edge_1RB_Right

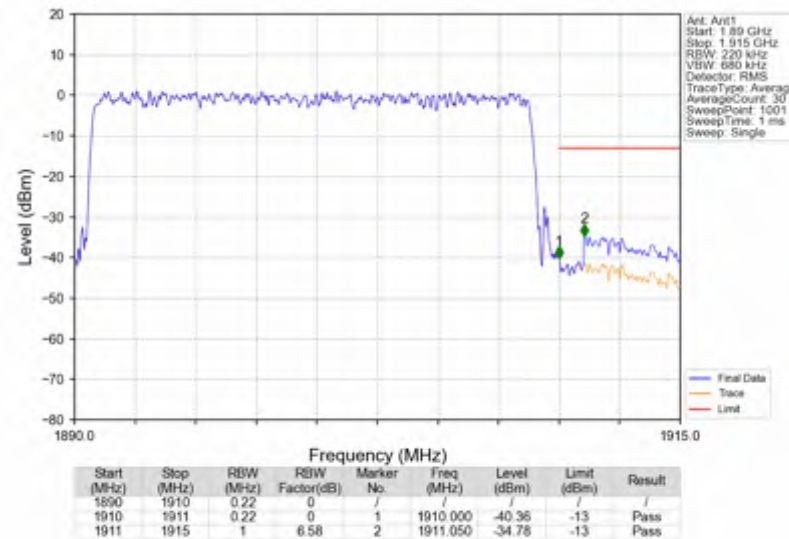


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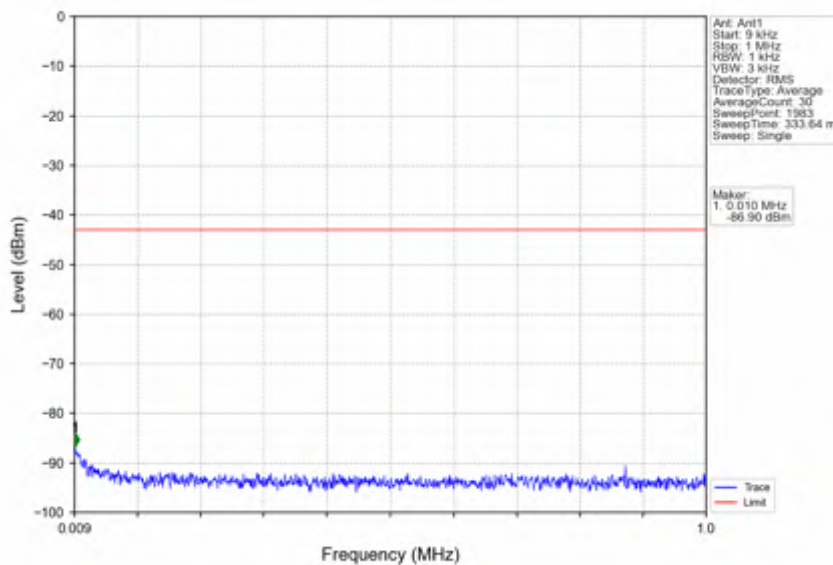
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1900MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1900MHz_Outer_Full



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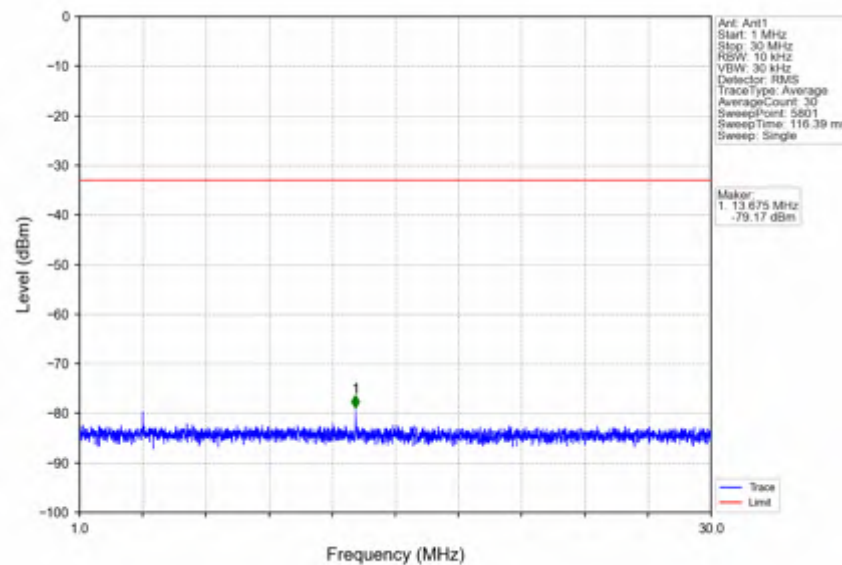
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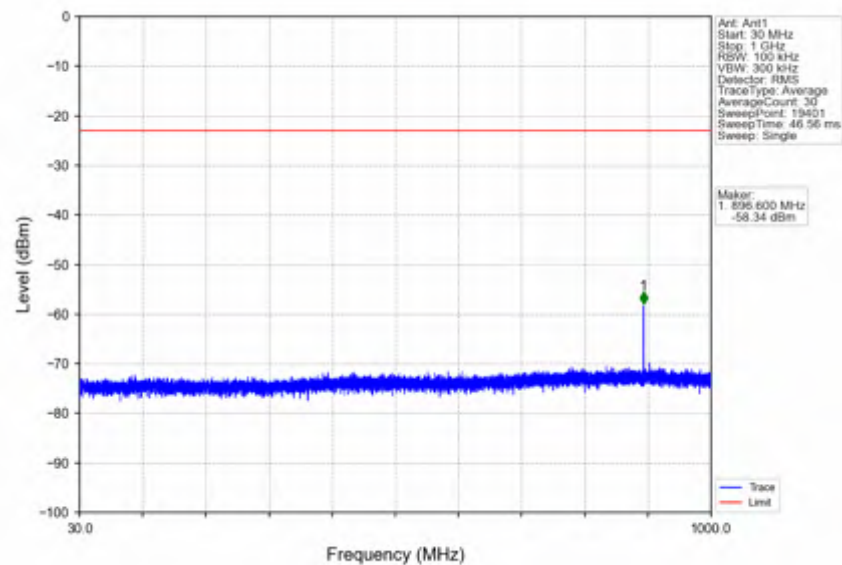
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1900MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1900MHz_Outer_Full



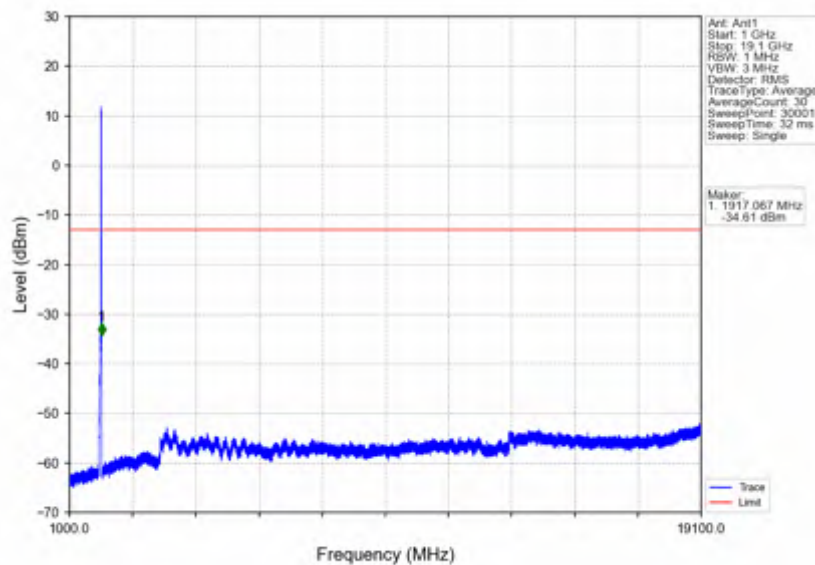
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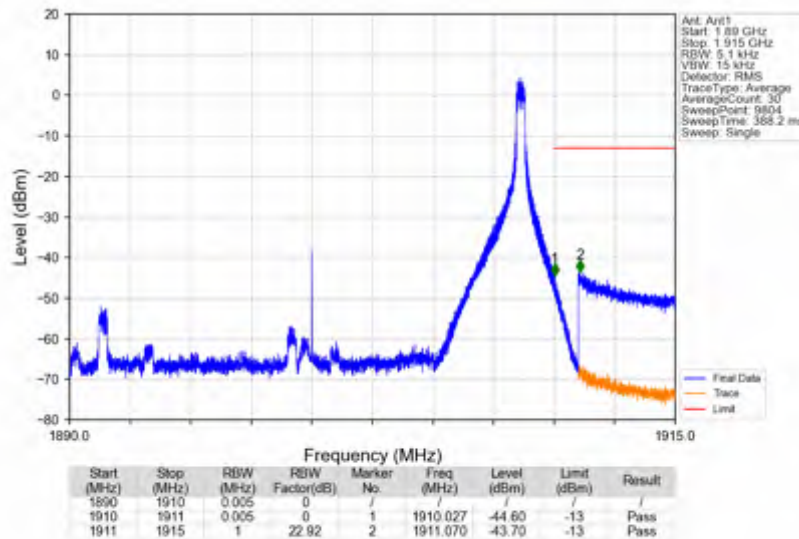
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1900MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1900MHz_Inner_1RB_Right



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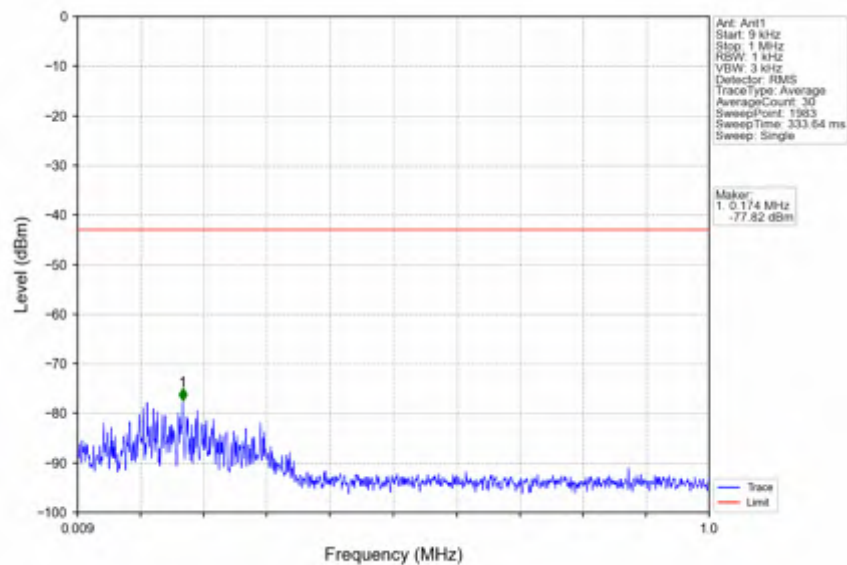
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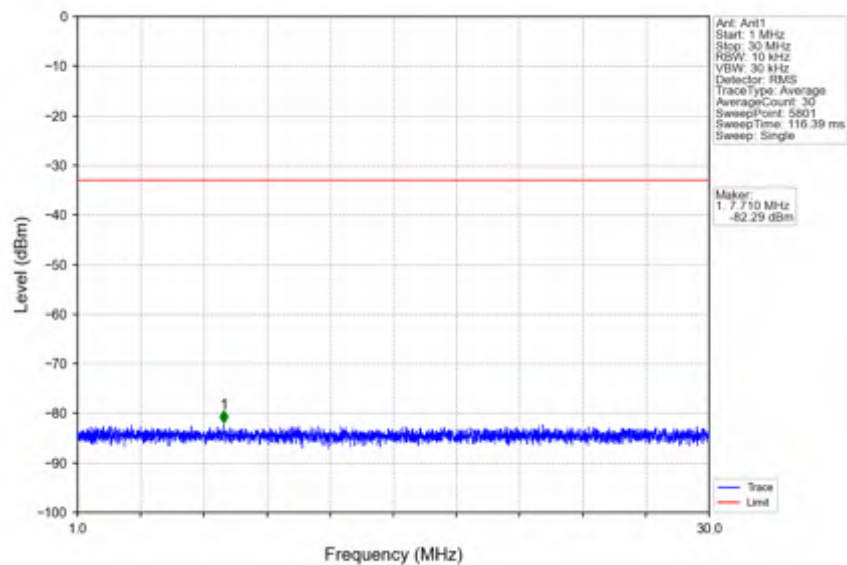
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1900MHz_Inner_1RB_Right



n2	30kHz	SISO	NTNV	20MHz	DFT-s-OFDM	QPSK	1900MHz	Inner	1RB	Right
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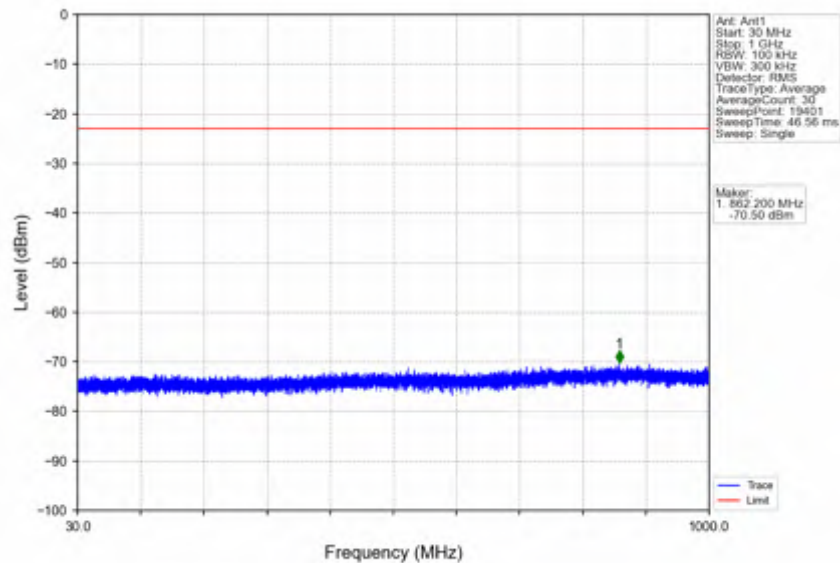


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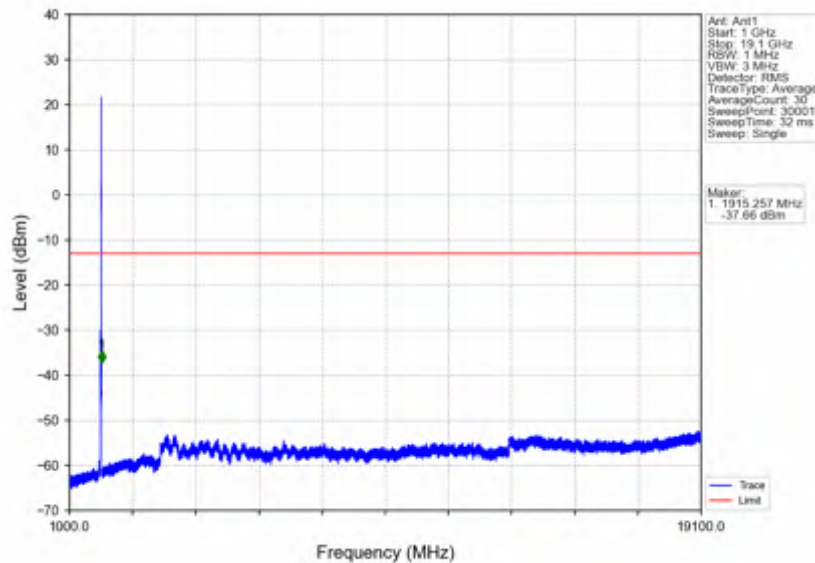
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1900MHz_Inner_1RB_Right



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1900MHz_Inner_1RB_Right



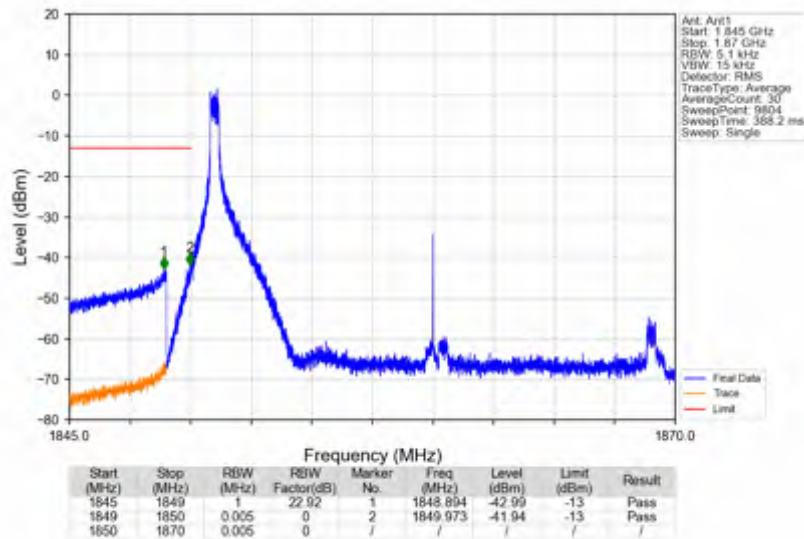
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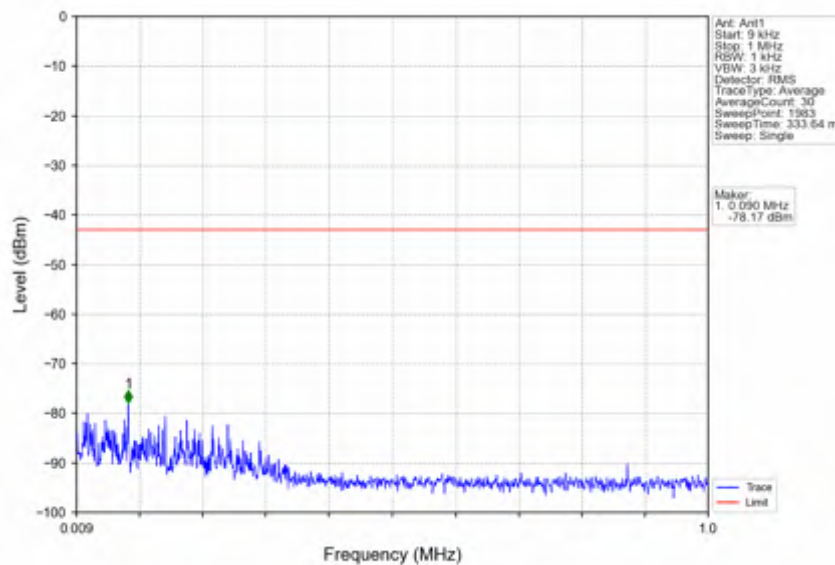
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1860MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1860MHz_Edge_1RB_Left



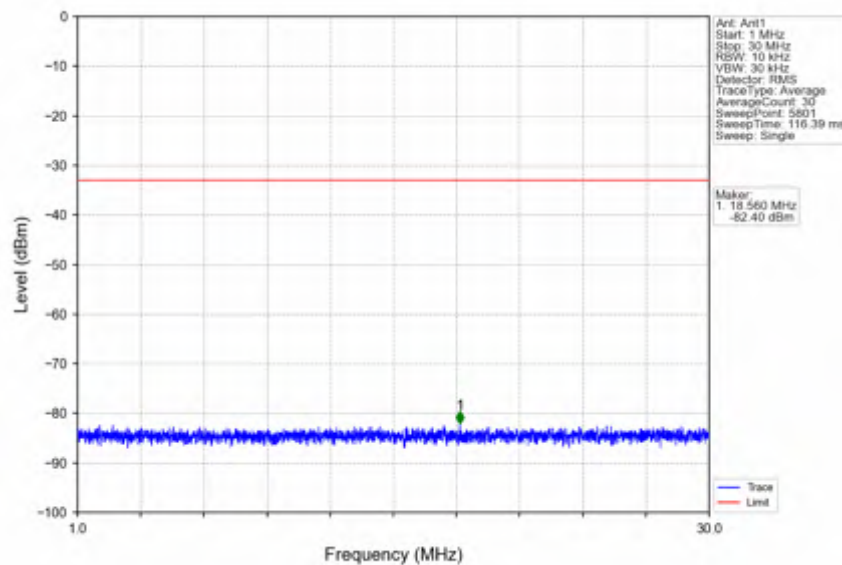
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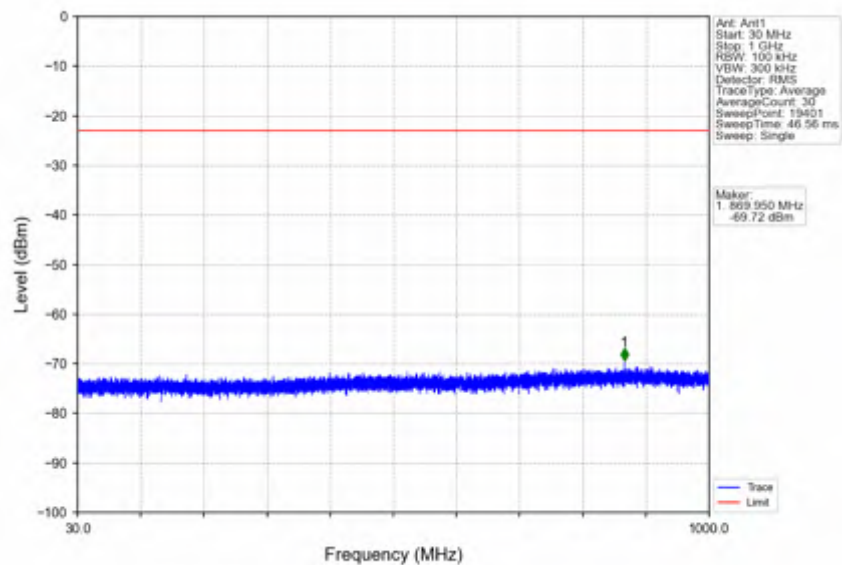
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1860MHz_Edge_1RB_Left



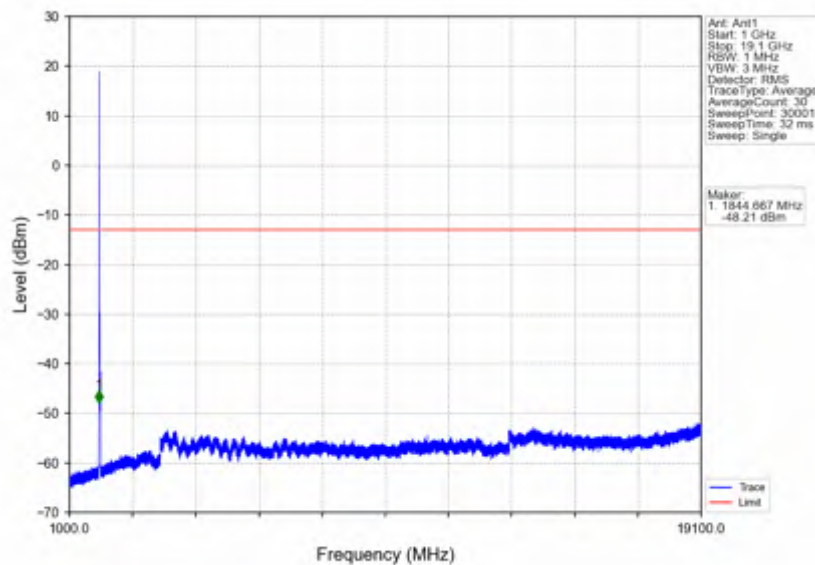
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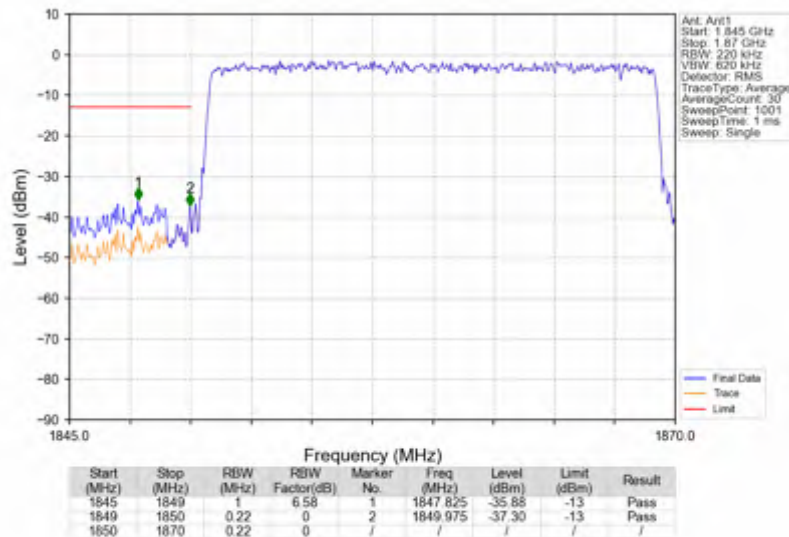
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1860MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1860MHz_Outer_Full



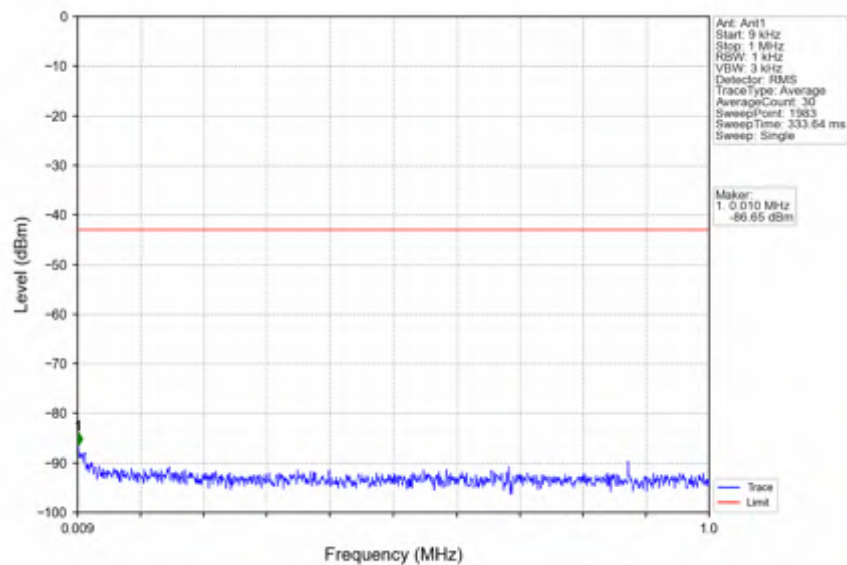
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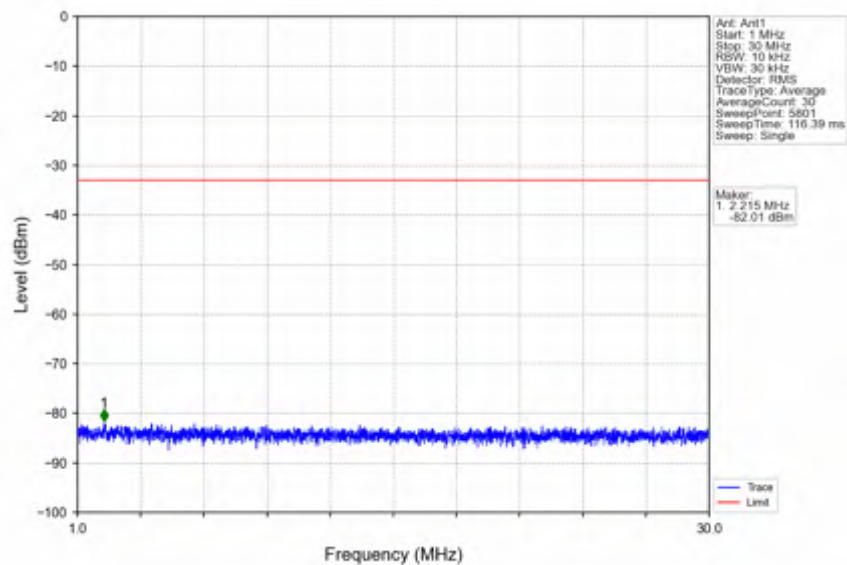
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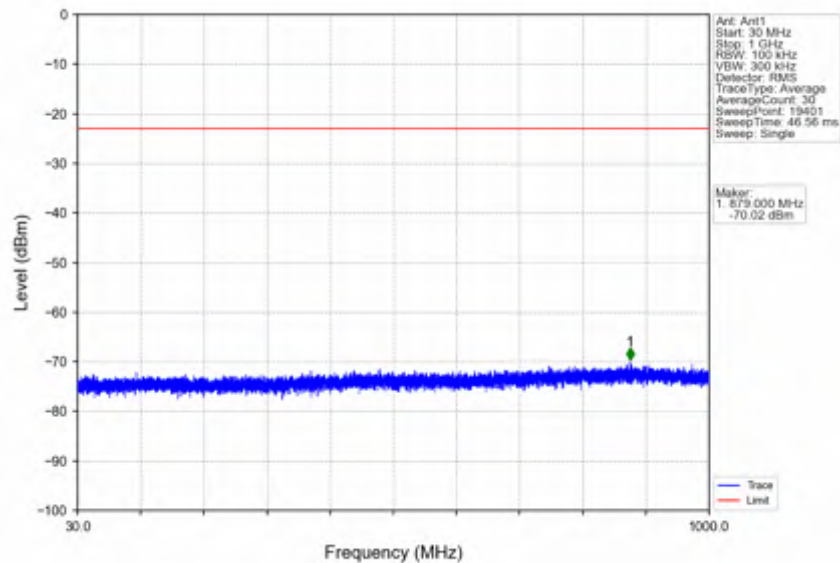
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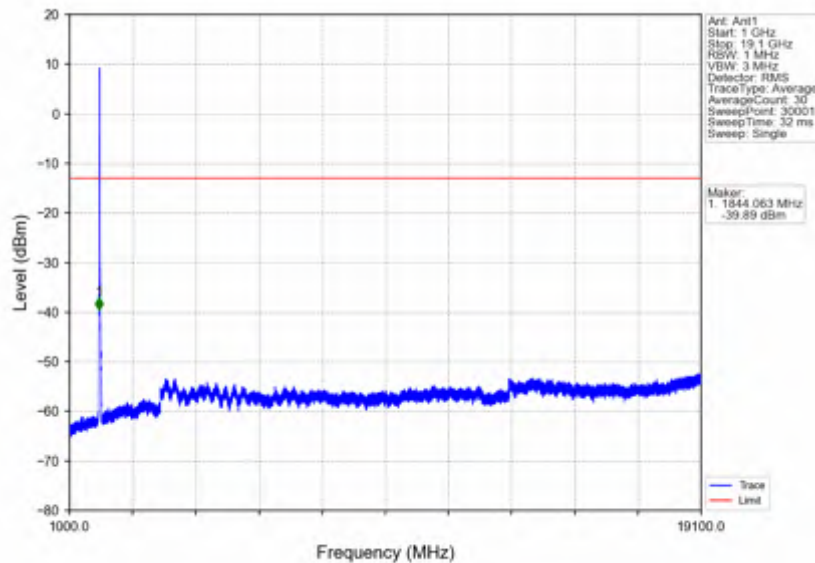
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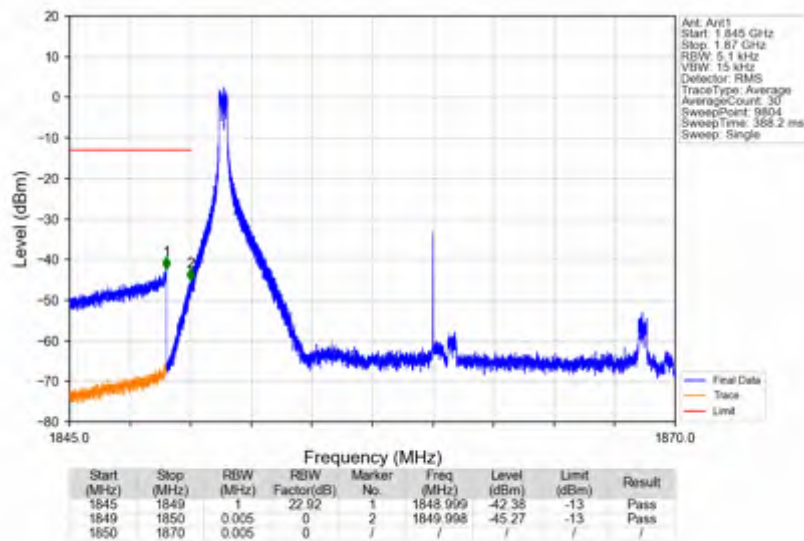
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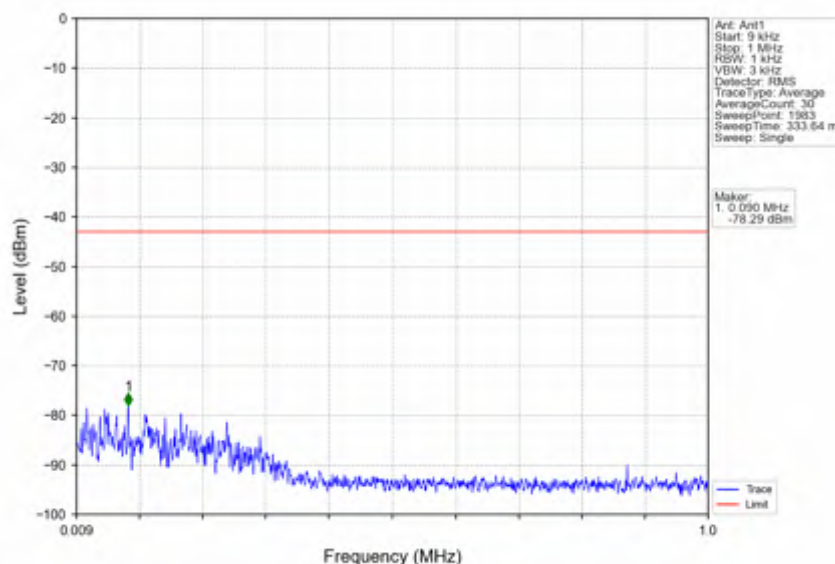
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n2 30kHz SISO NTV 20MHz CP-OFDM QPSK 1860MHz Inner 1RB Left



n2	30kHz	SISO	NTNV	20MHz	CP-OFDM	QPSK	1860MHz	Inner	1RB	Left
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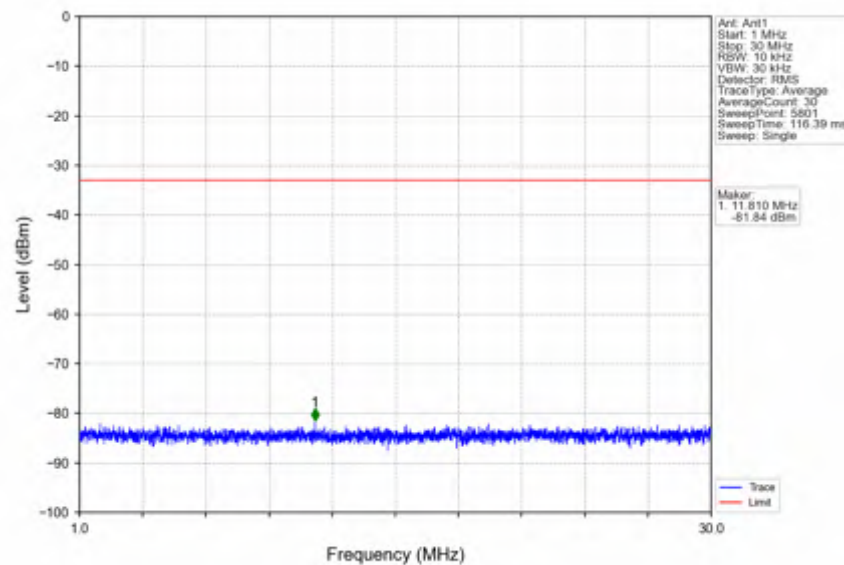


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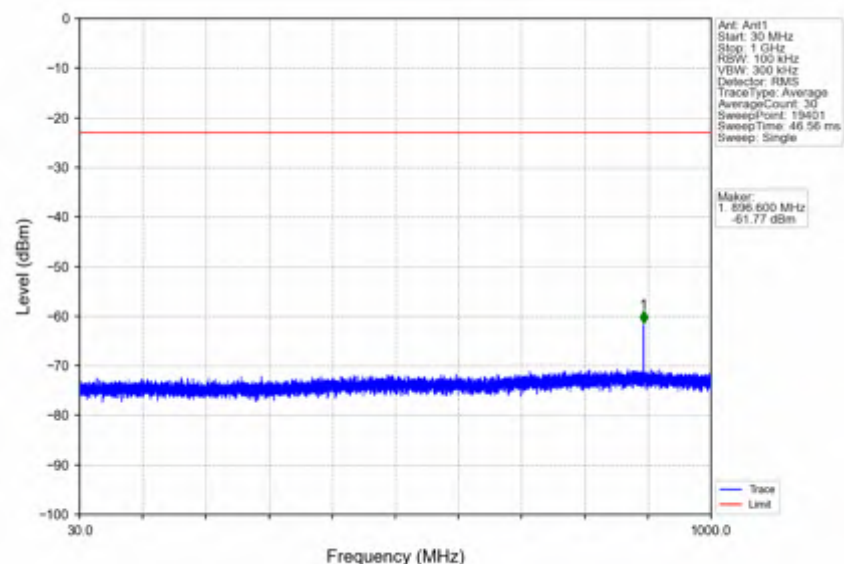
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_1860MHz_Inner_1RB_Left



n2_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_1860MHz_Inner_1RB_Left



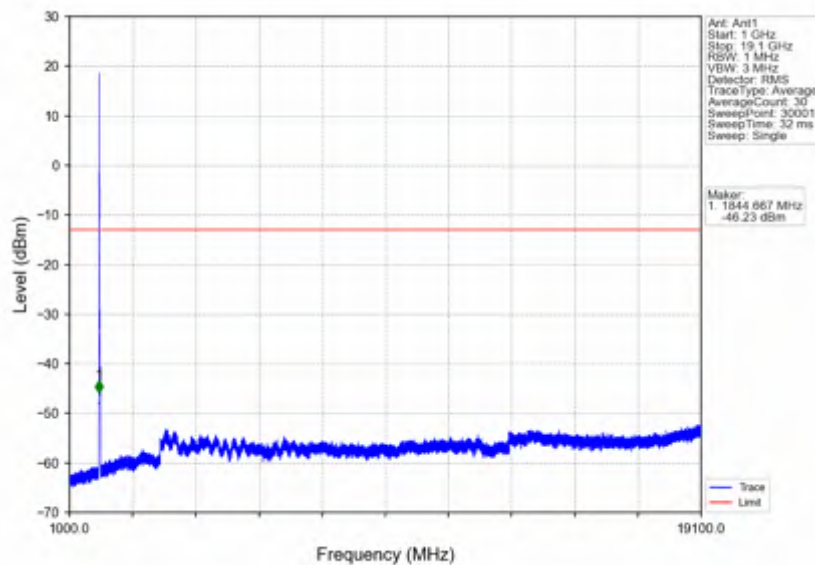
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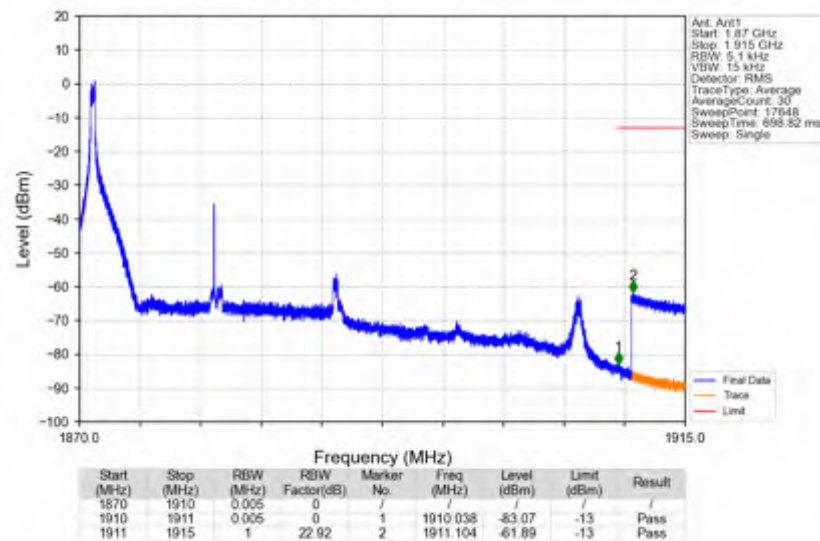
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n2 30kHz SISO NTNv 20MHz CP-OFDM QPSK 1860MHz Inner 1RB Left



n2 30kHz SISO NTV 20MHz CP-OFDM QPSK 1880MHz Edge 1RB Left

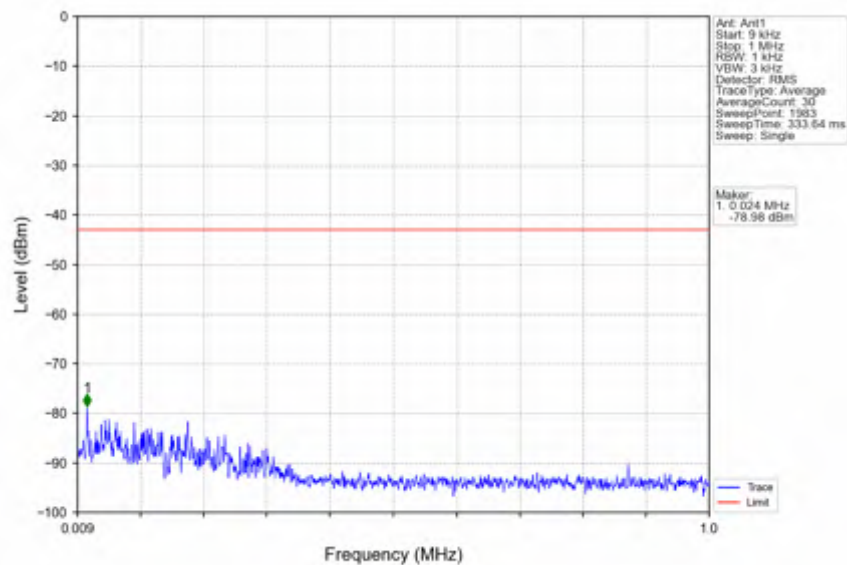


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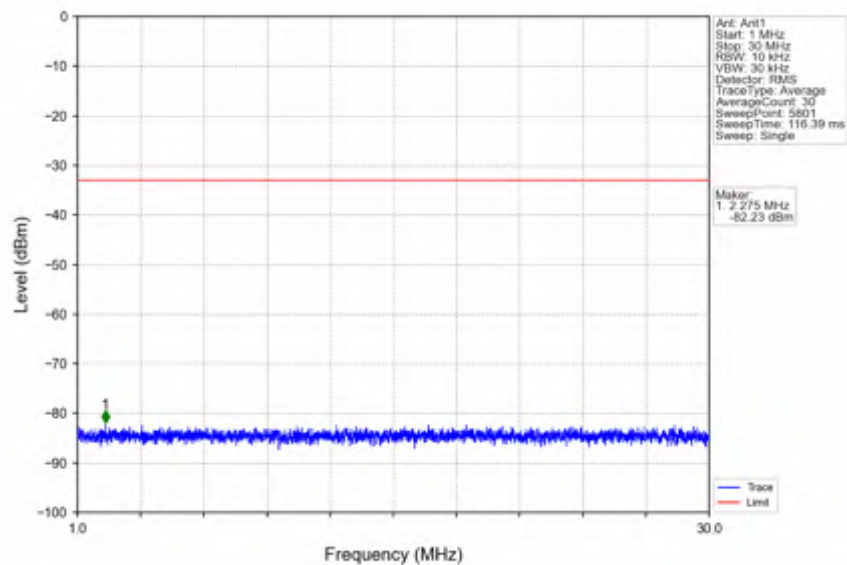
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n2 30kHz SISO NTN 20MHz CP-OFDM QPSK 1880MHz Edge 1RB Left



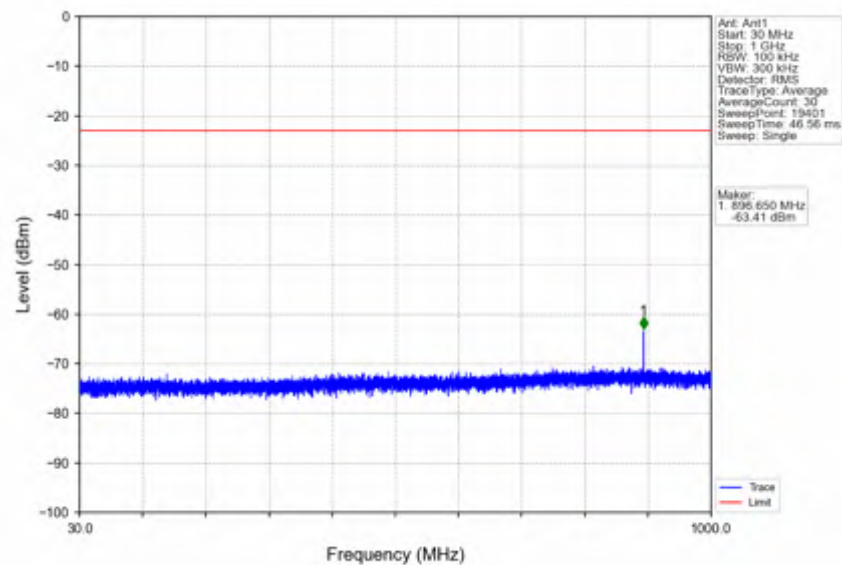
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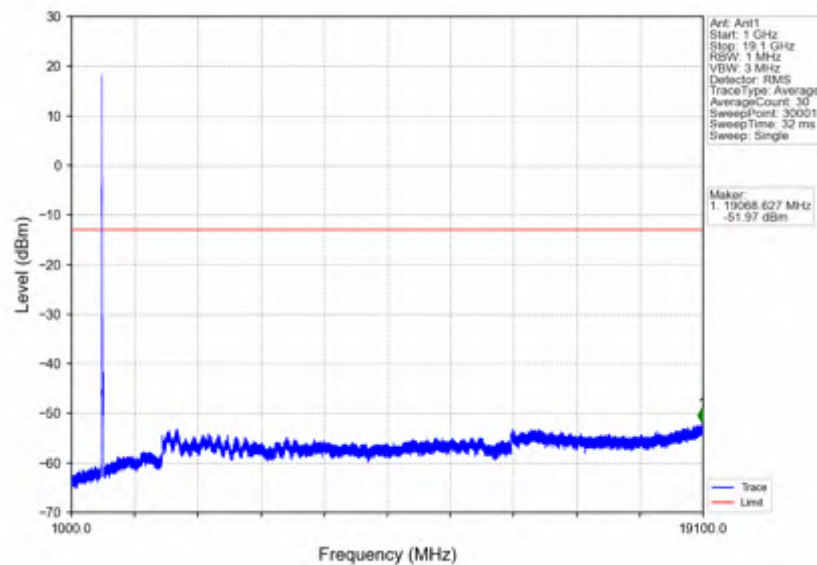
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n2 30kHz SISO NTN 20MHz CP-OFDM QPSK 1880MHz Edge 1RB Left

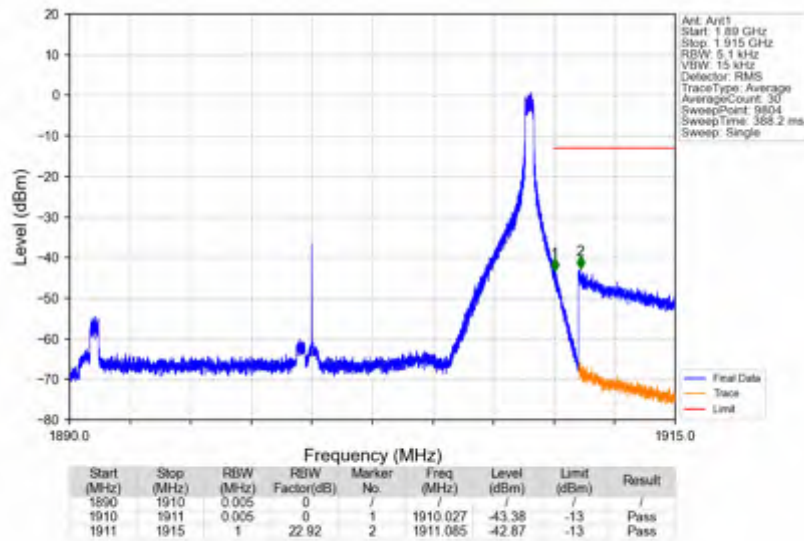


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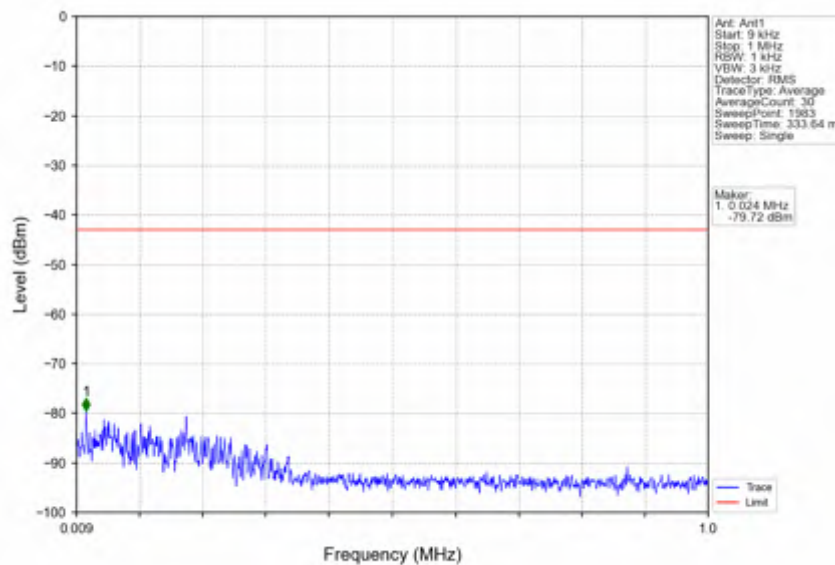
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n2 30kHz SISO NTV 20MHz CP-OFDM QPSK 1900MHz Edge 1RB Right



n2_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_1900MHz_Edge_1RB_Right

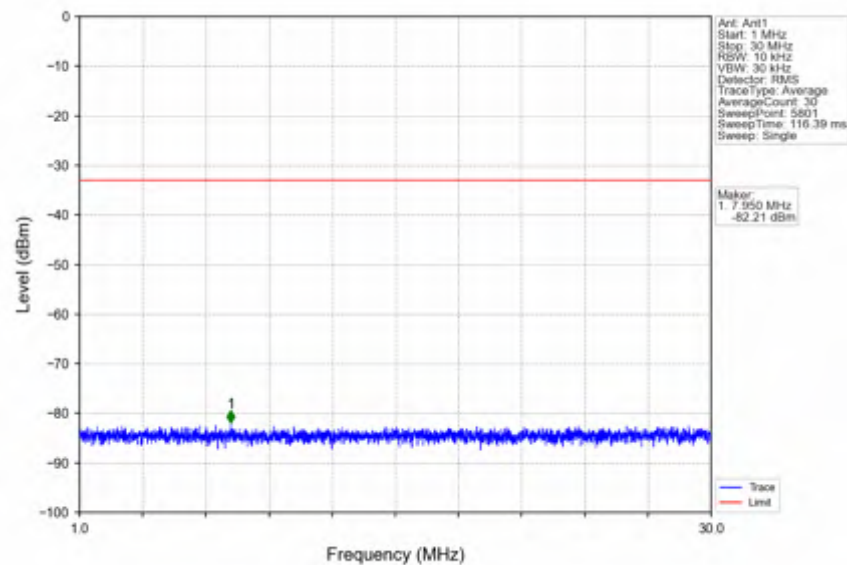


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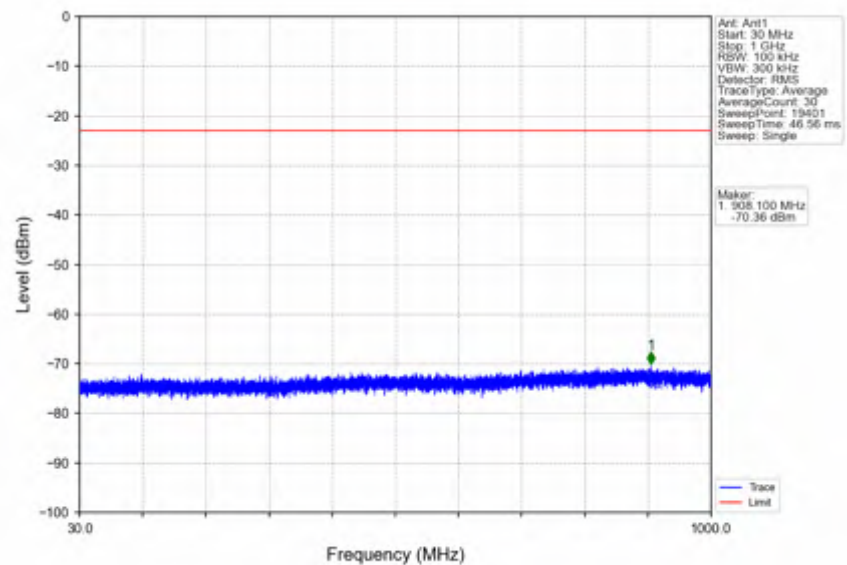
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Edge_1RB_Right



n2_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Edge_1RB_Right



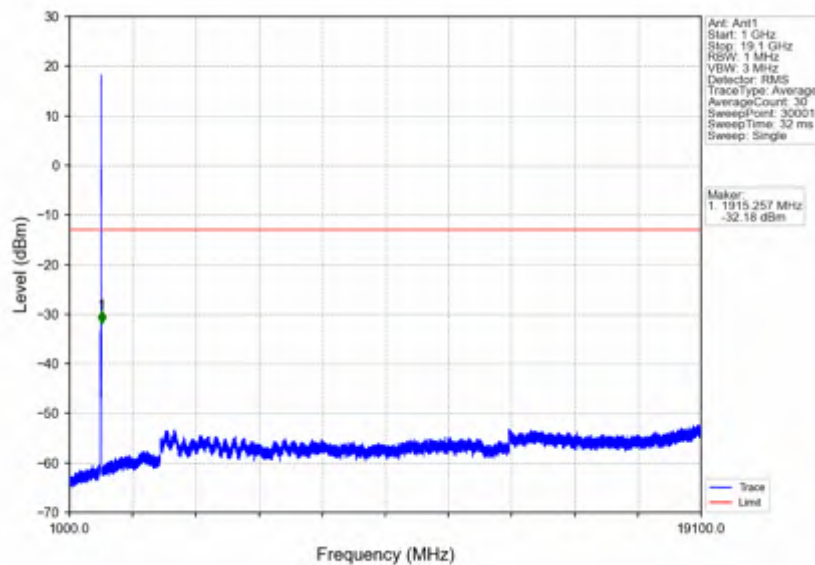
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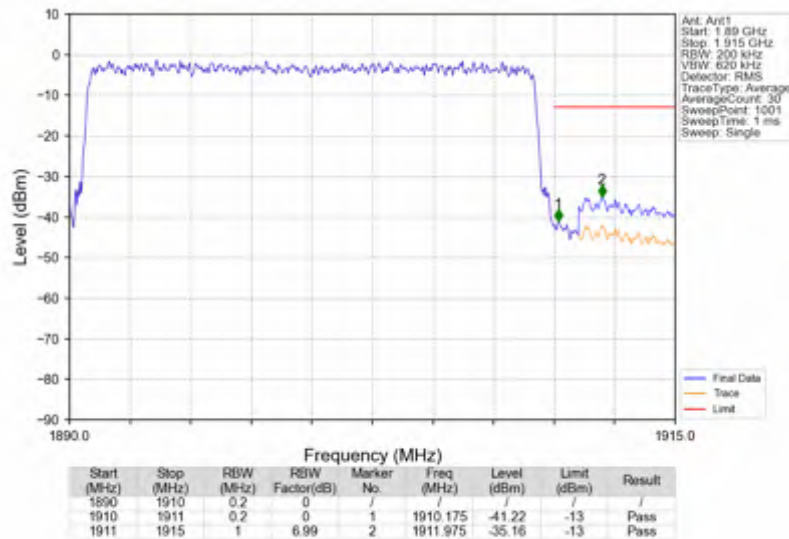
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Edge_1RB_Right



n2_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Outer_Full



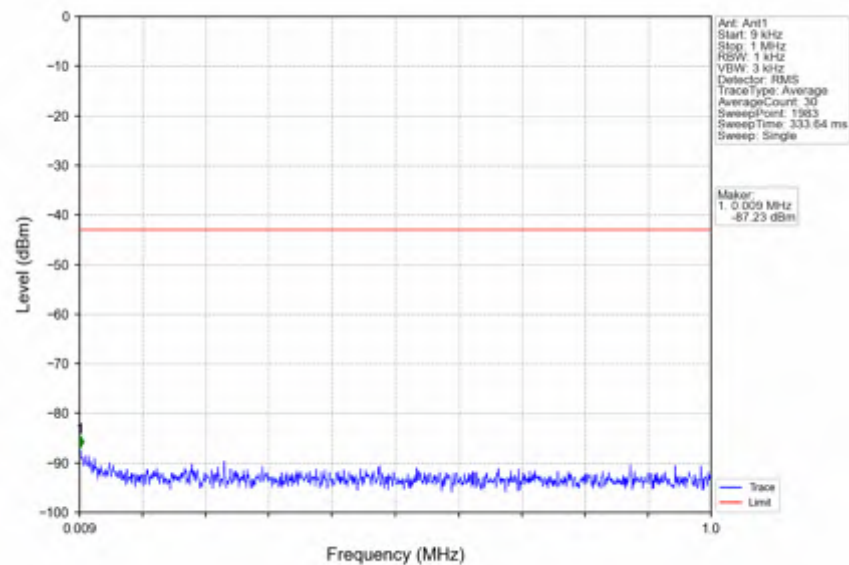
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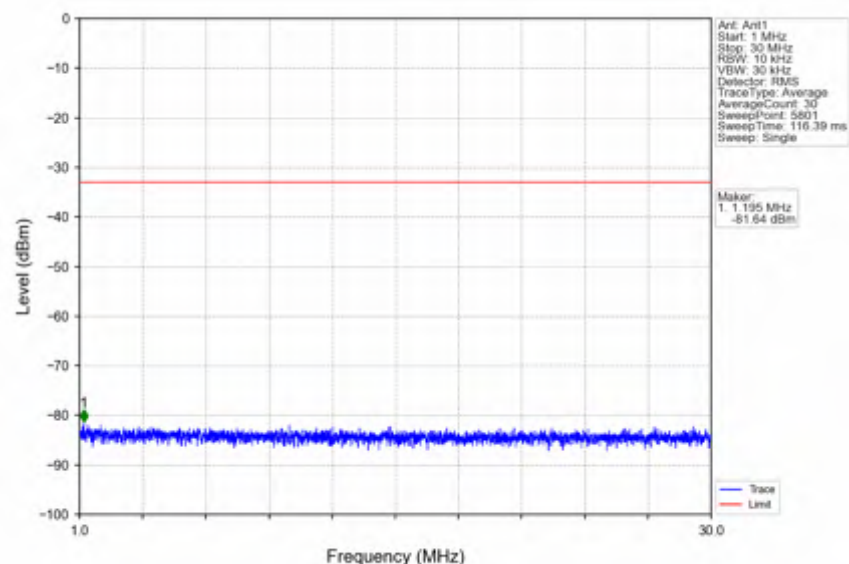
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n2_30kHz_SISO_NTV_20MHz_CP-OFDM_QPSK_1900MHz_Outer_Full



n2	30kHz	SISO	NTNV	20MHz	CP-OFDM	QPSK	1900MHz	Outer	Full
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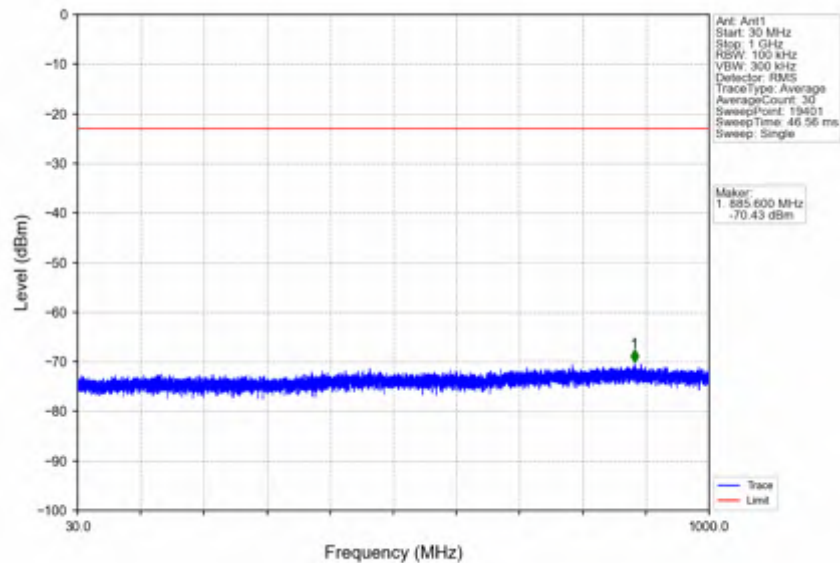


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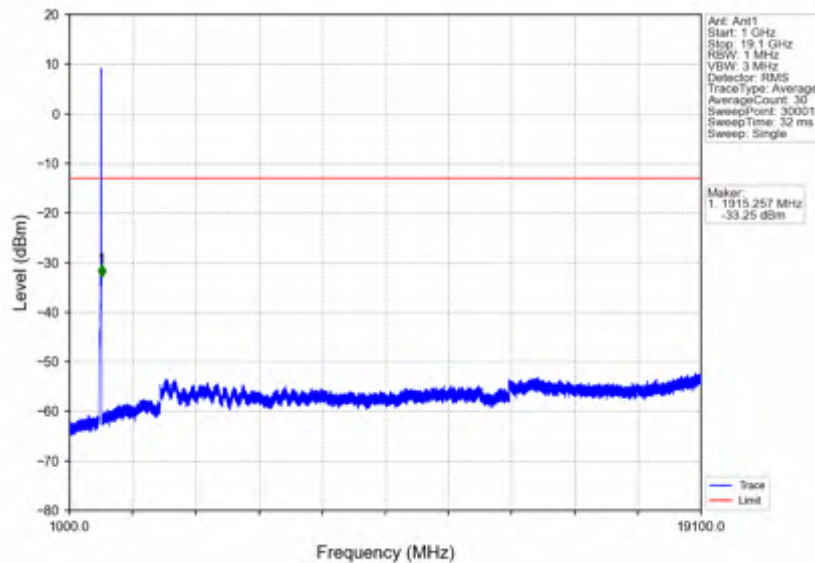
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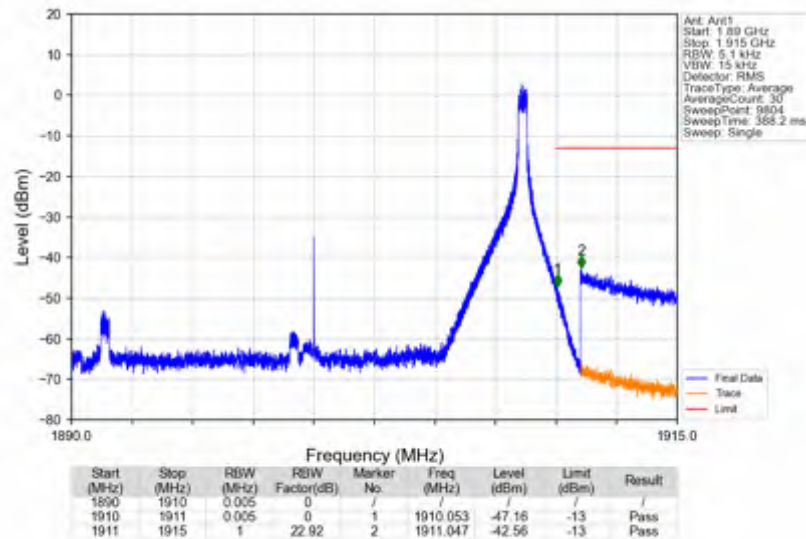
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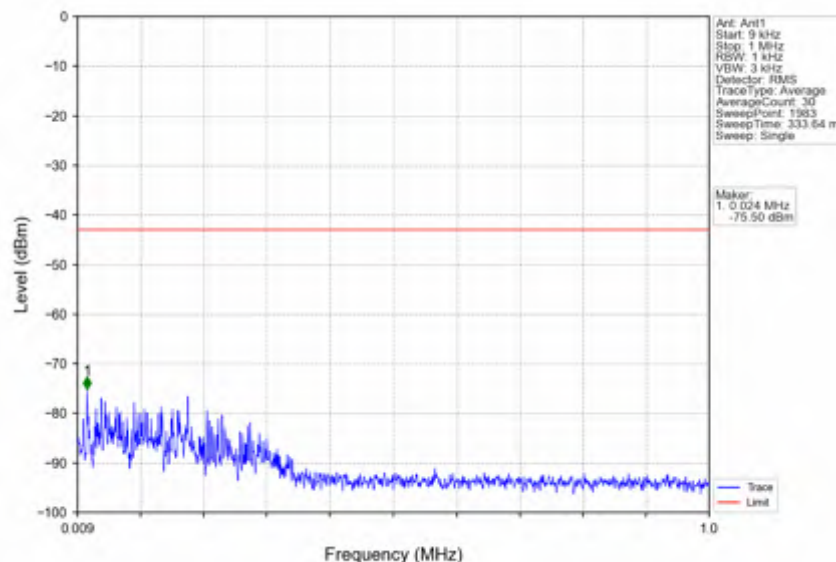
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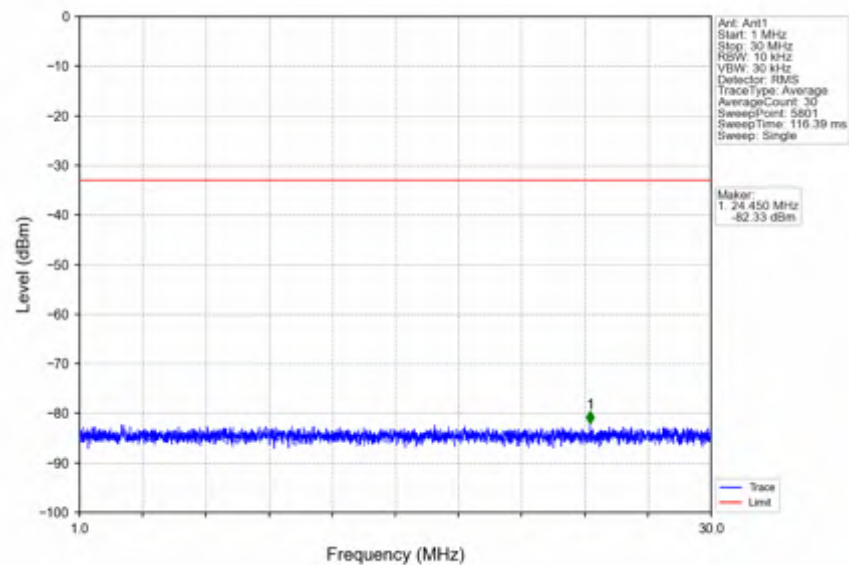
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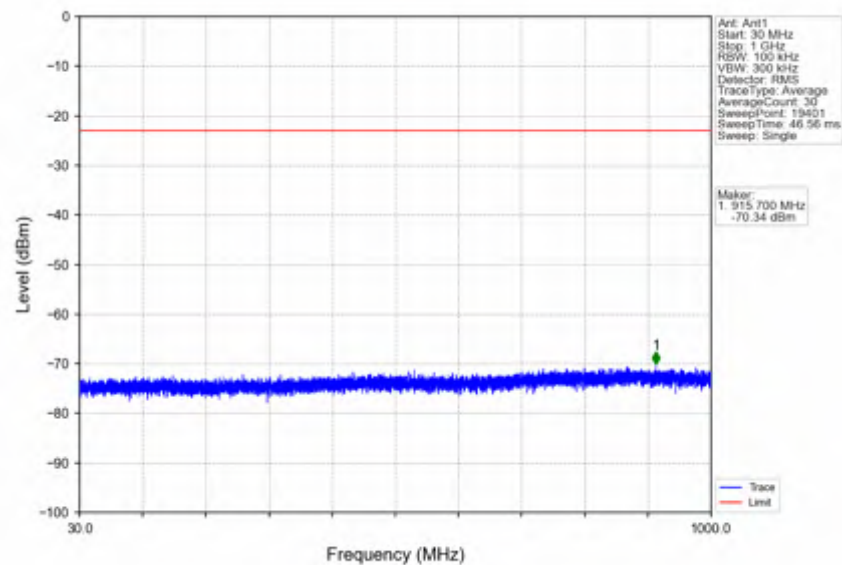
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n2 30kHz SISO NTN 20MHz CP-OFDM QPSK 1900MHz Inner 1RB Right

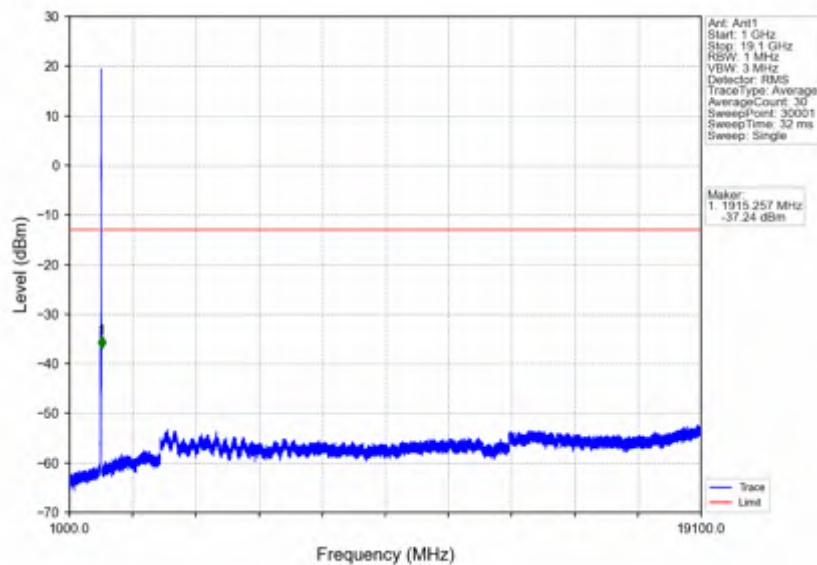


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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Inner_1RB_Right



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2. n5 Spurious Emission

2.1 15k_SISO_5MHz_NTNV

2.1.1 Test Result

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



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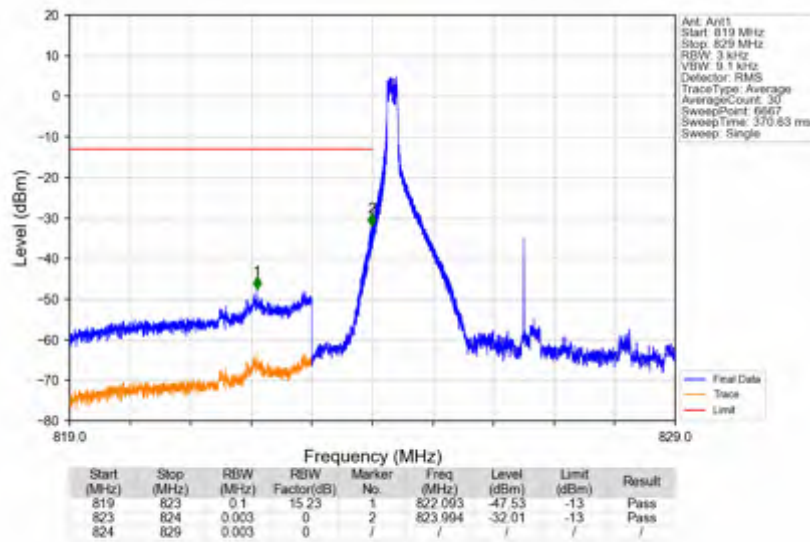
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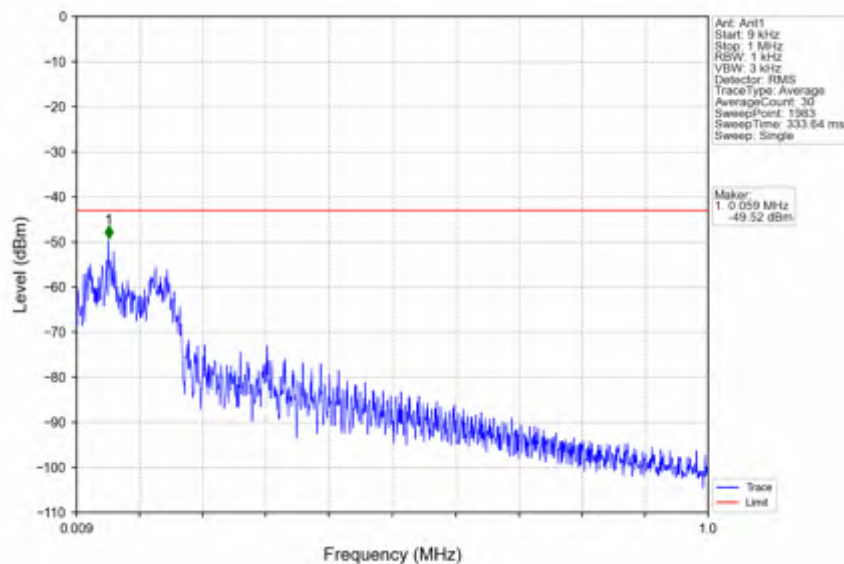
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2.1.2 Test Graph

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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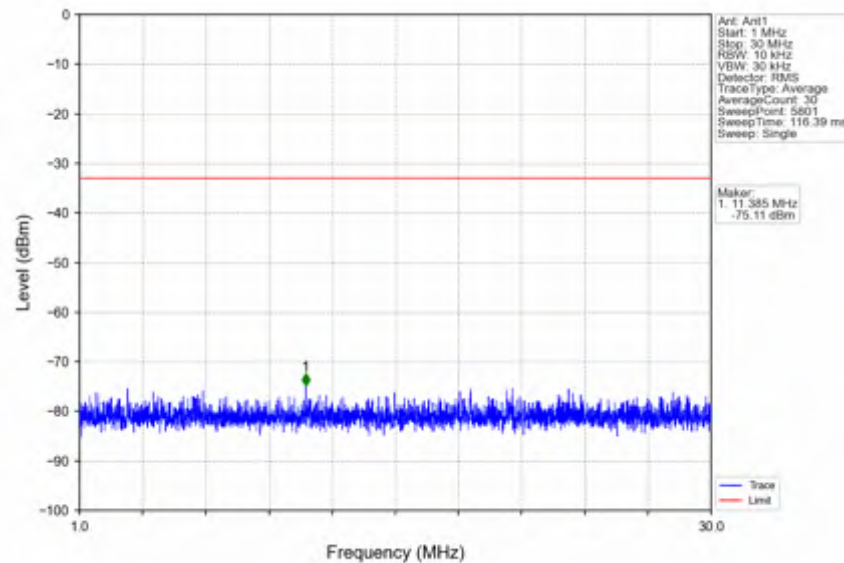
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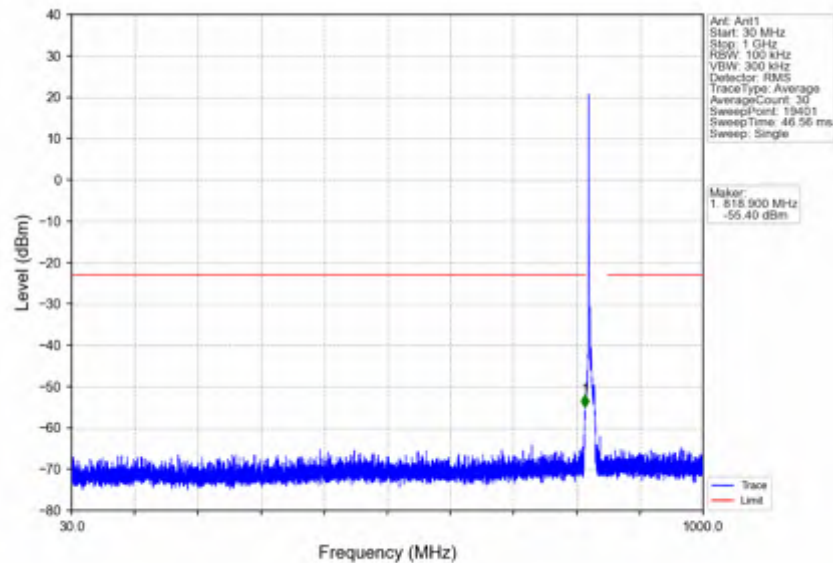
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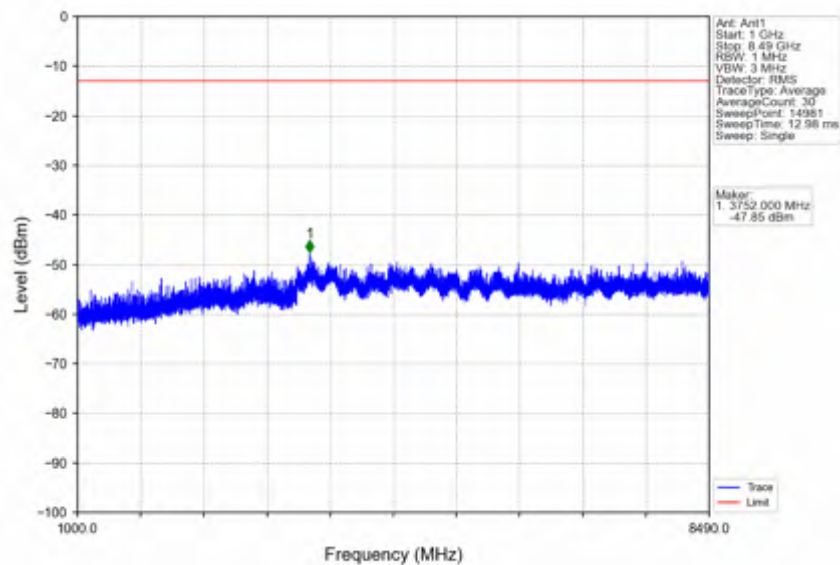
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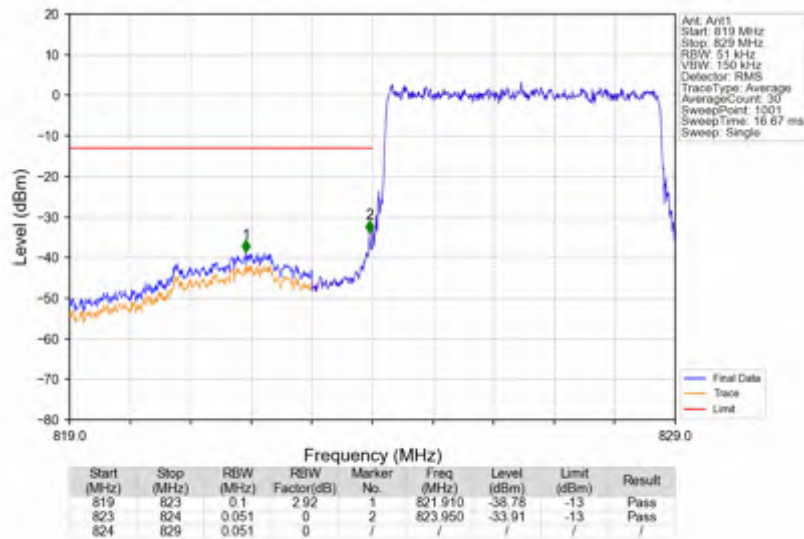
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_826.5MHz_Outer_Full



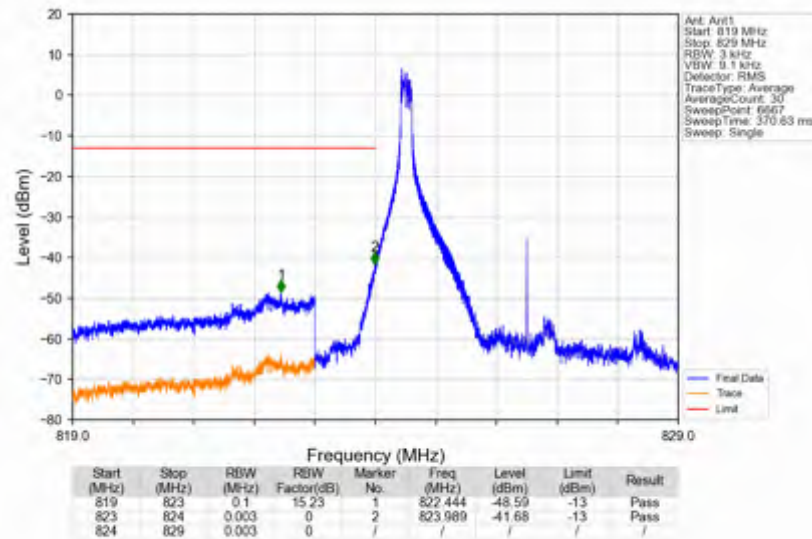
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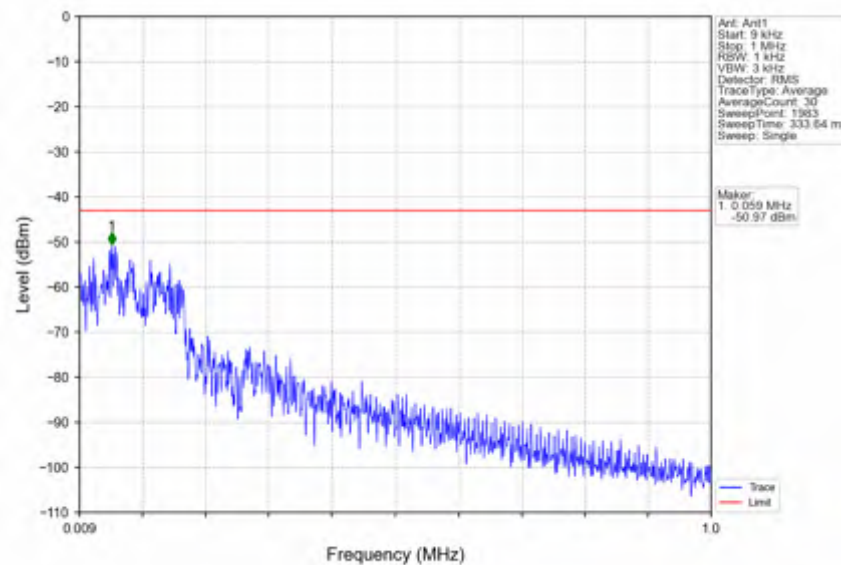
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_836.5MHz_Edge_1RB_Left



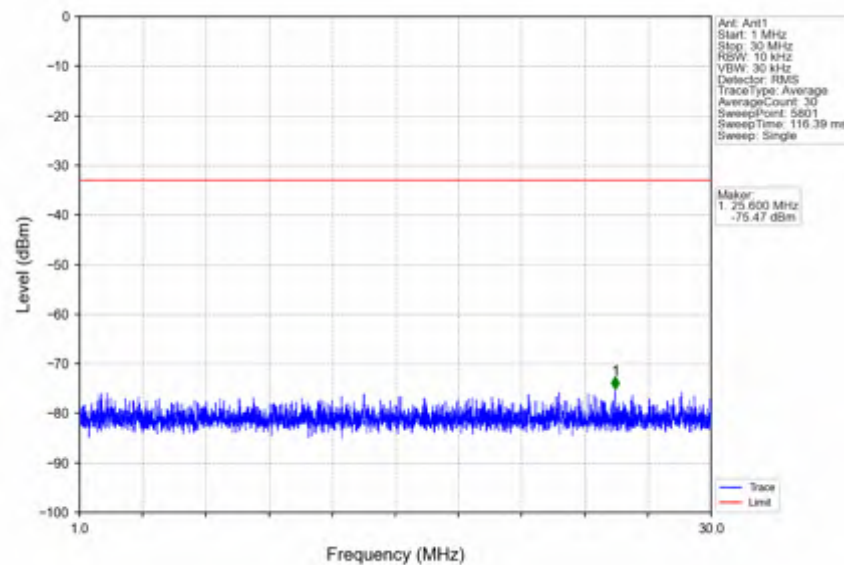
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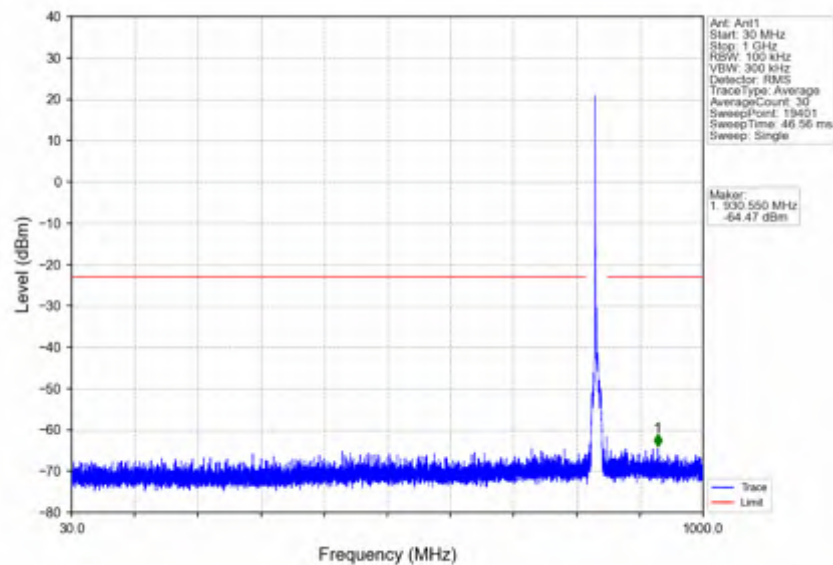
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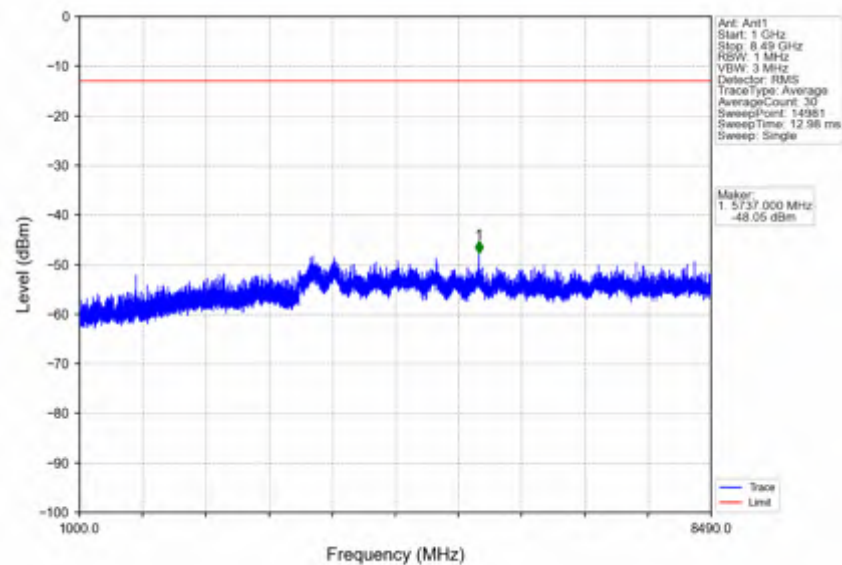
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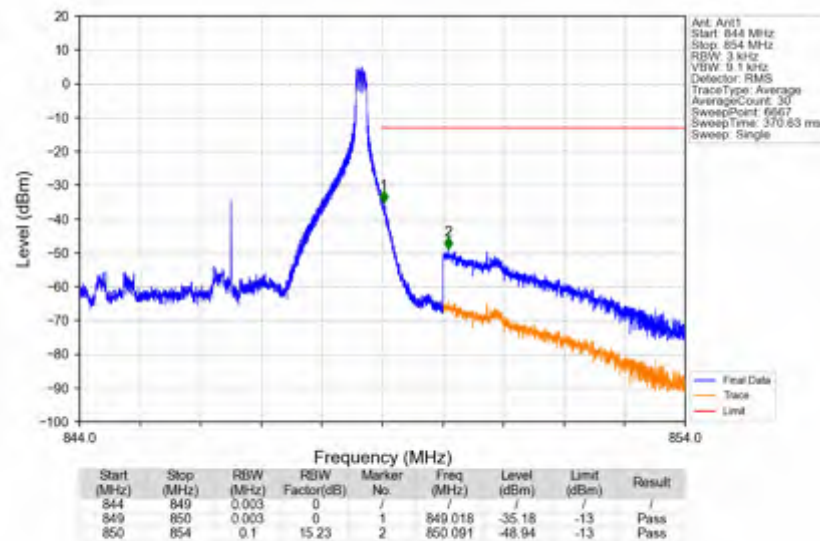
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_846.5MHz_Edge_1RB_Right



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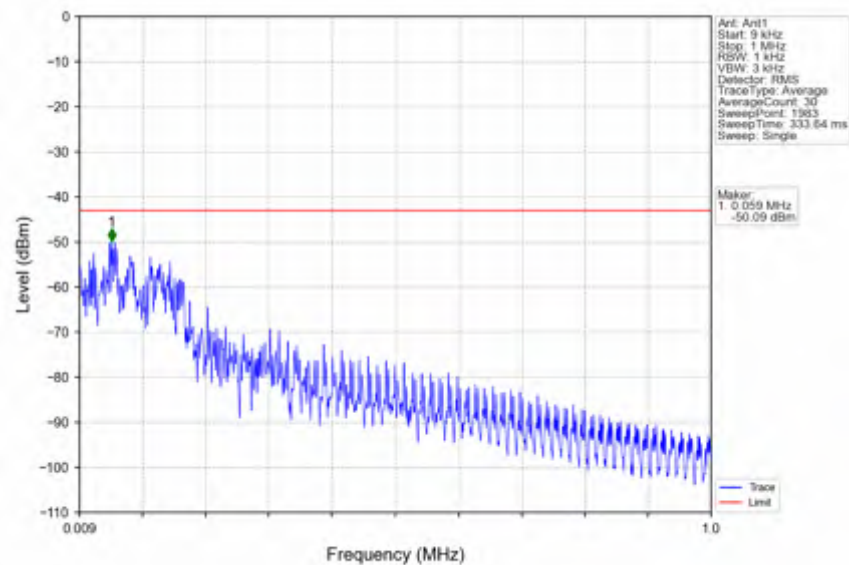
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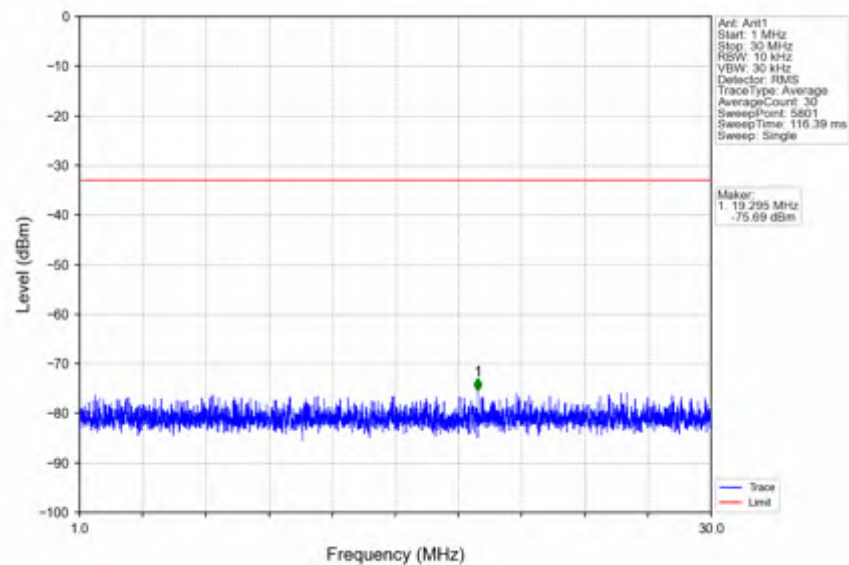
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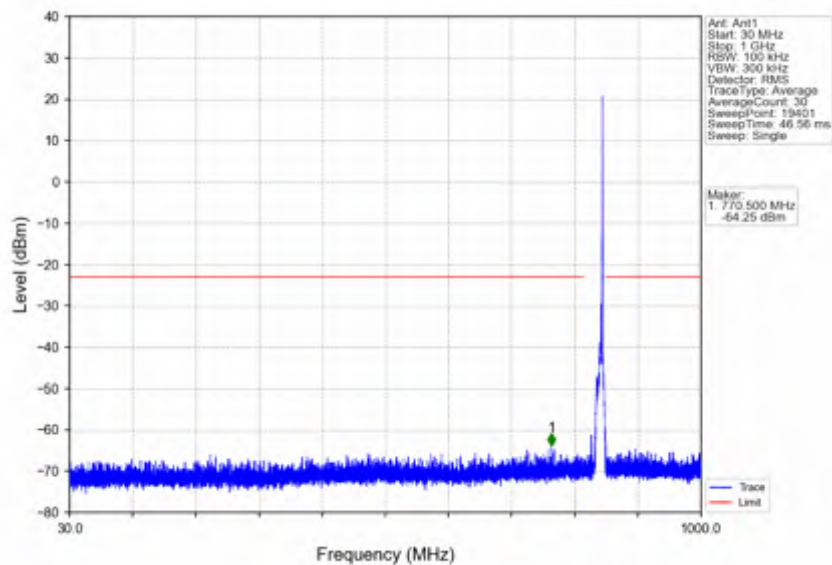
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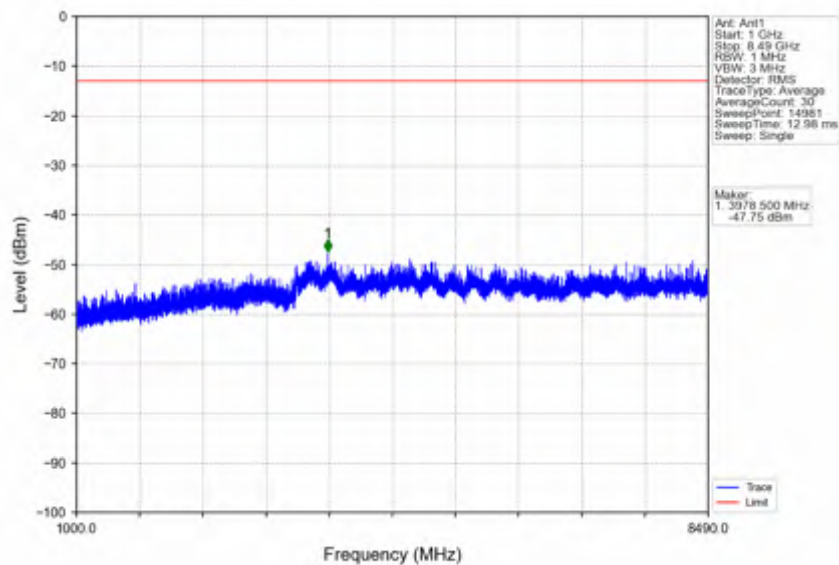
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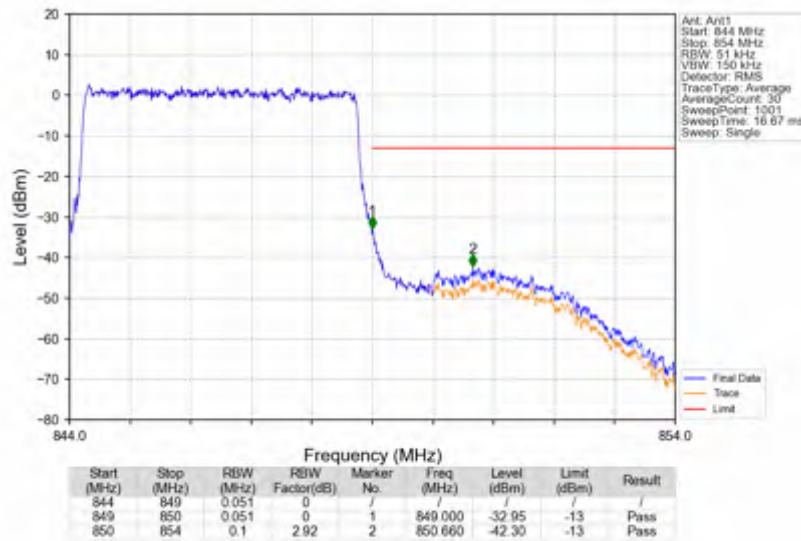


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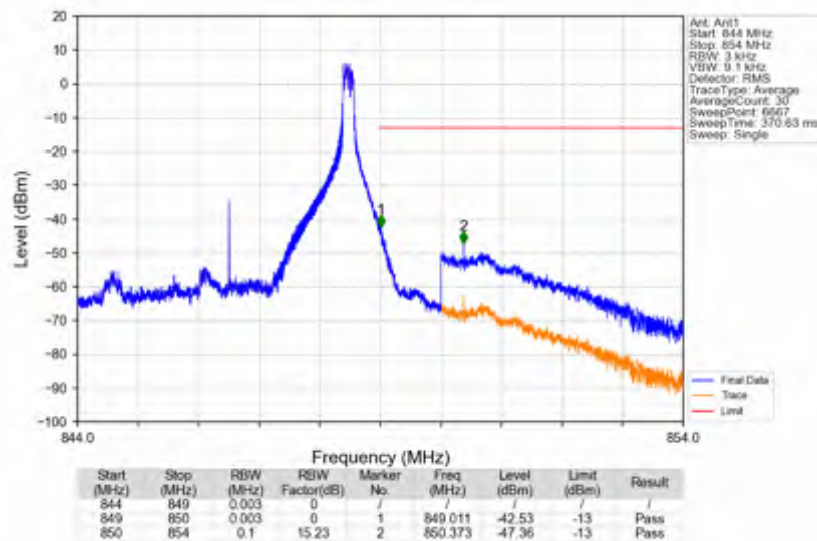
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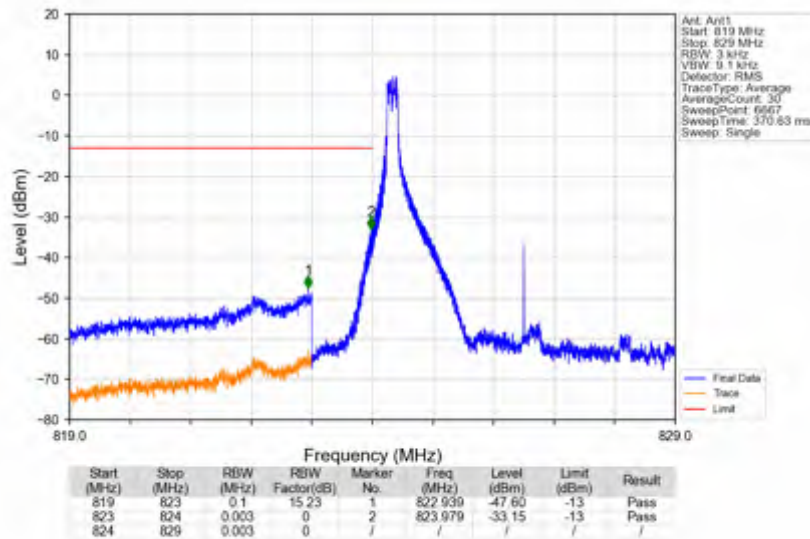
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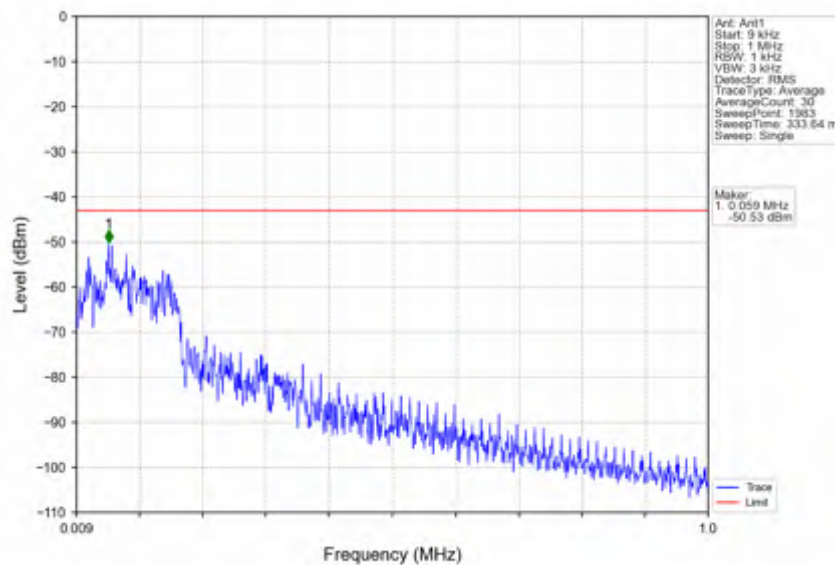
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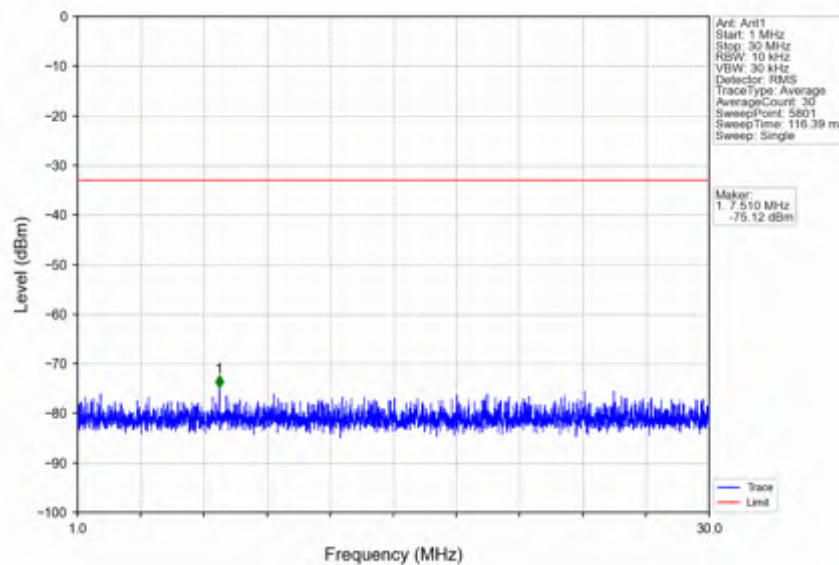
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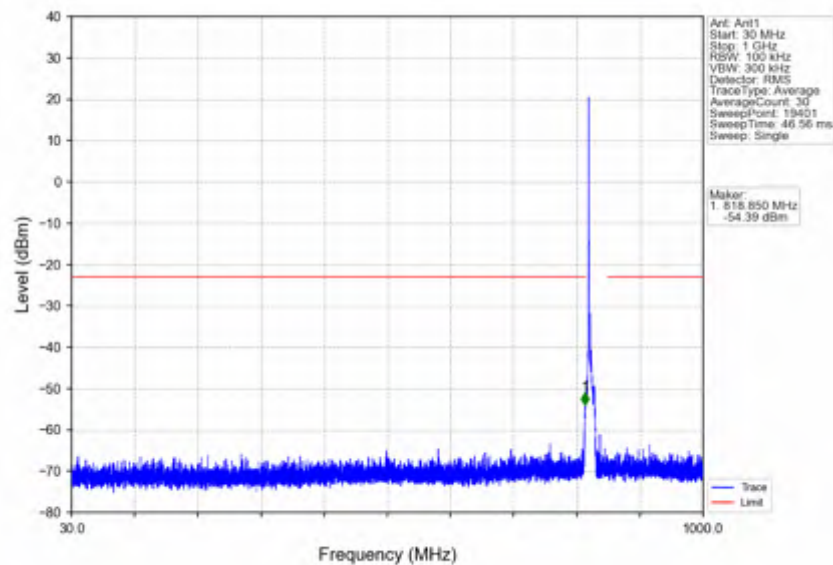
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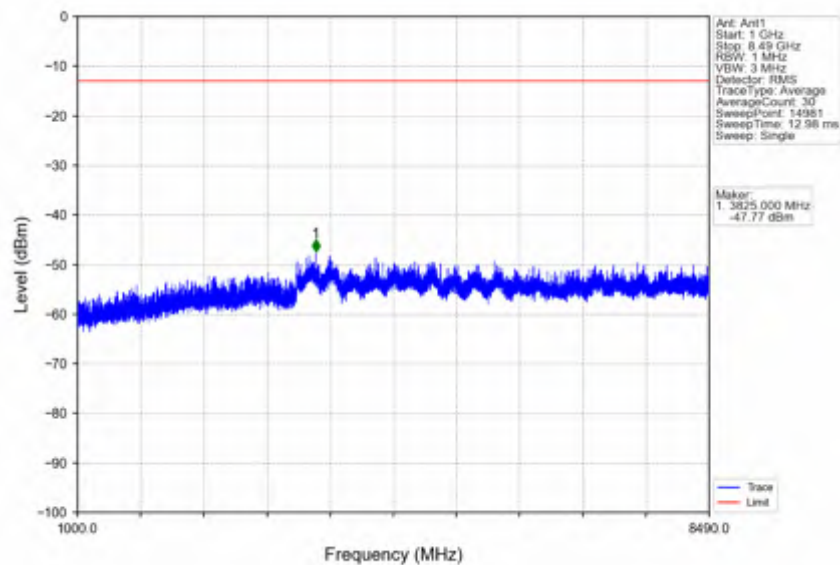
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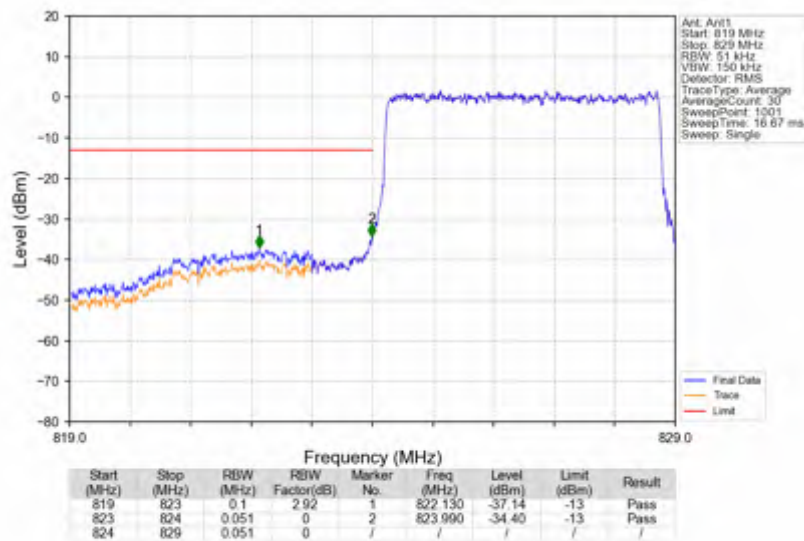
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Outer_Full



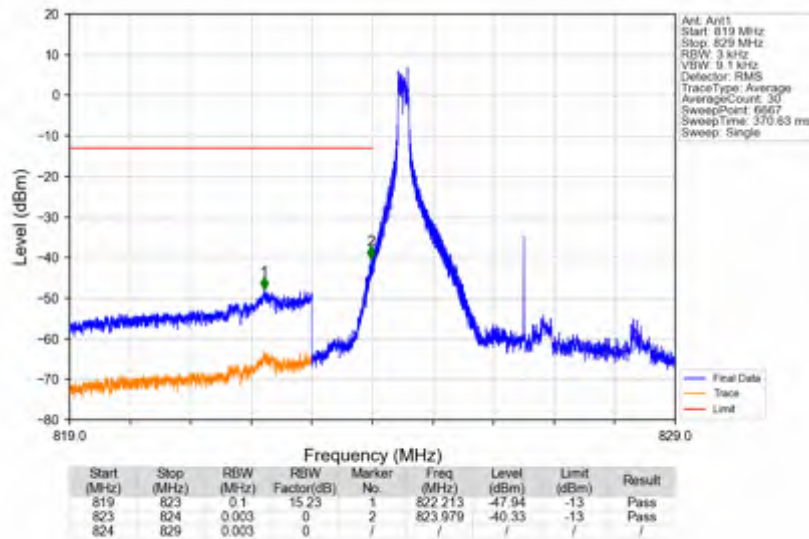
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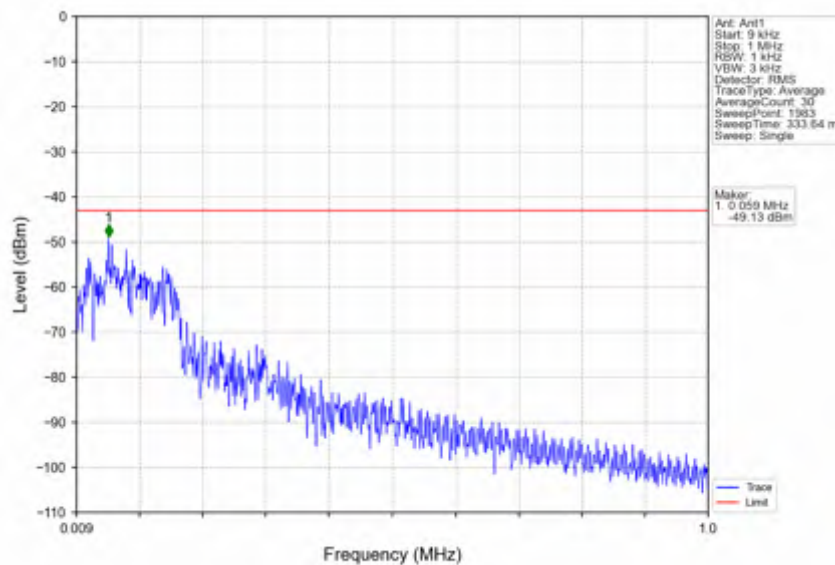
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n5 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 826.5MHz Inner 1RB Left



n5 15kHz SISO NTV 5MHz DFT-s-OFDM QPSK 836.5MHz Edge 1RB Left

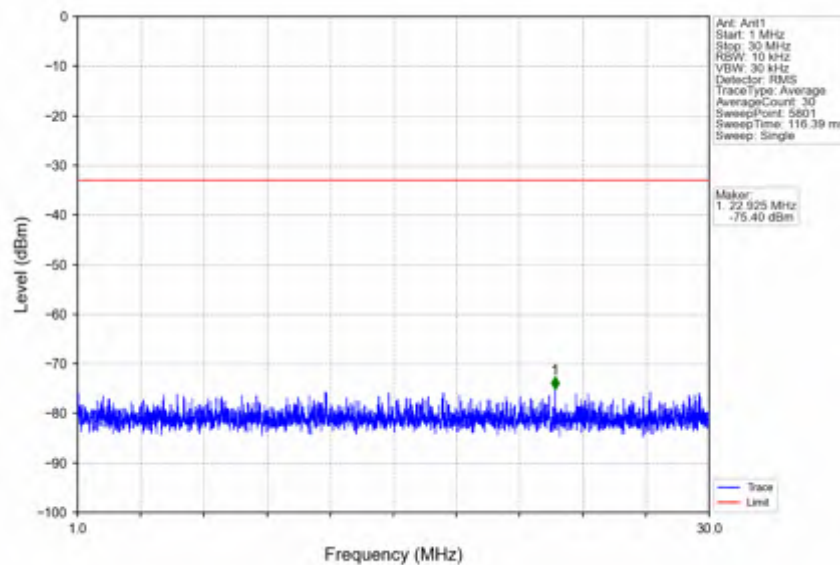


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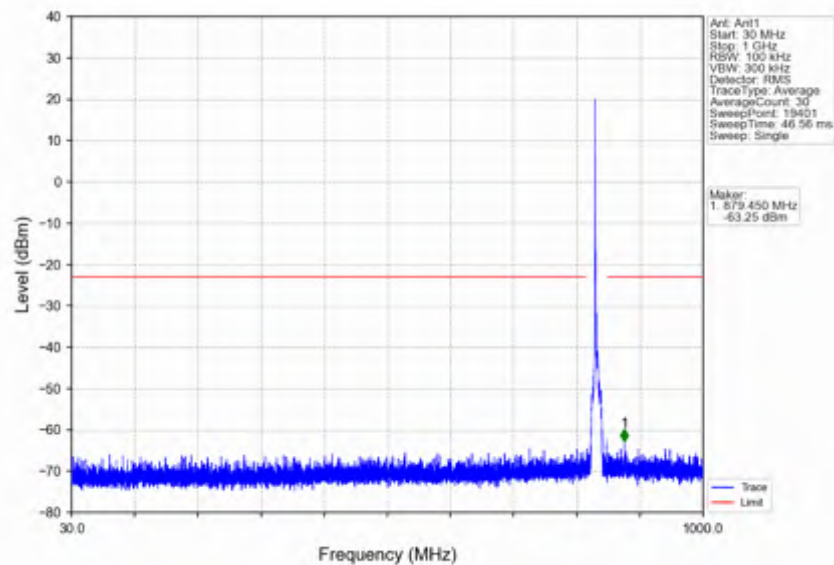
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK 836.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK 836.5MHz_Edge_1RB_Left



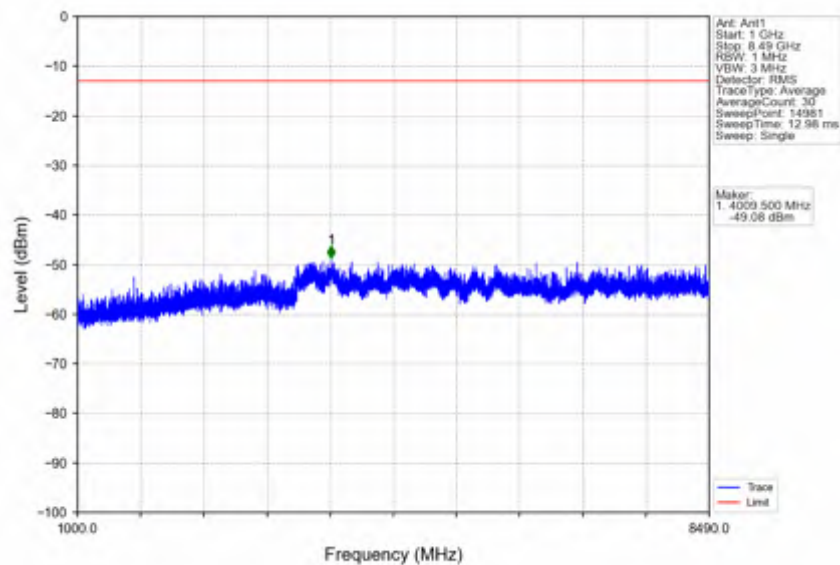
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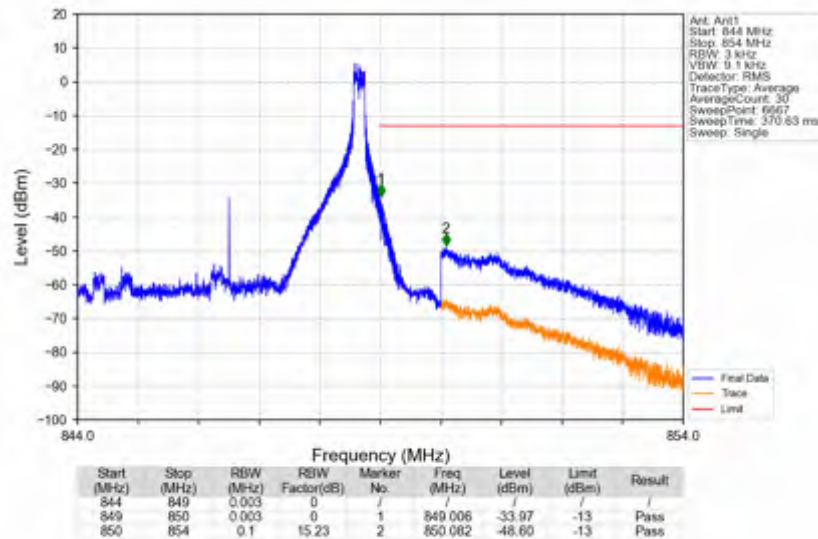
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_836.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_846.5MHz_Edge_1RB_Right



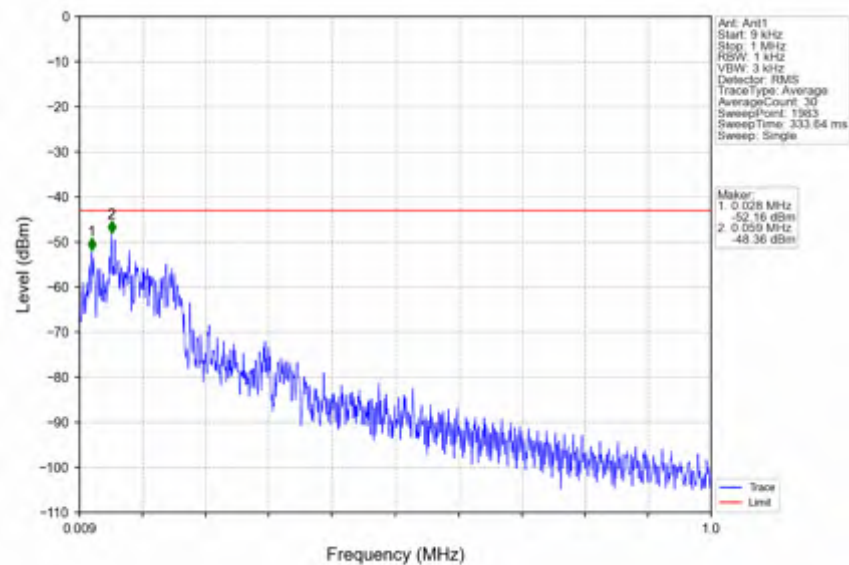
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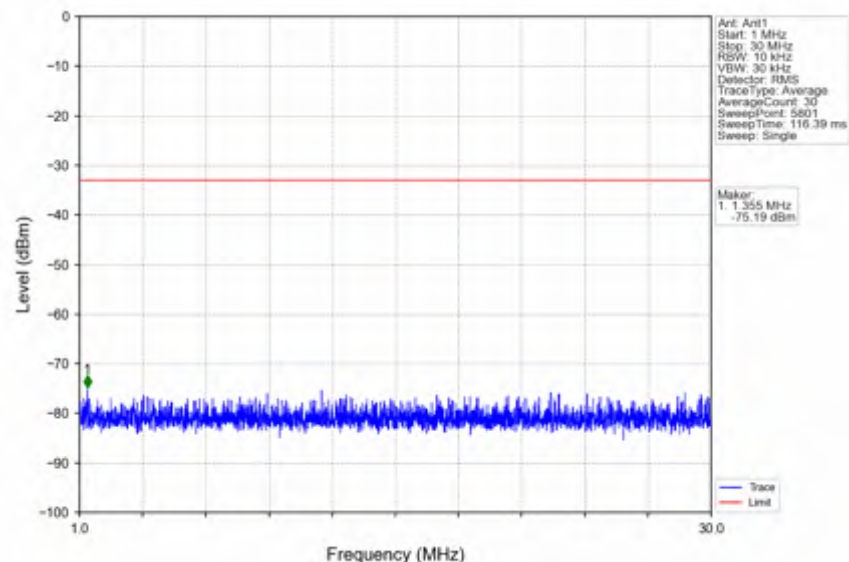
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_846.5MHz_Edge_1RB_Right



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_846.5MHz_Edge_1RB_Right



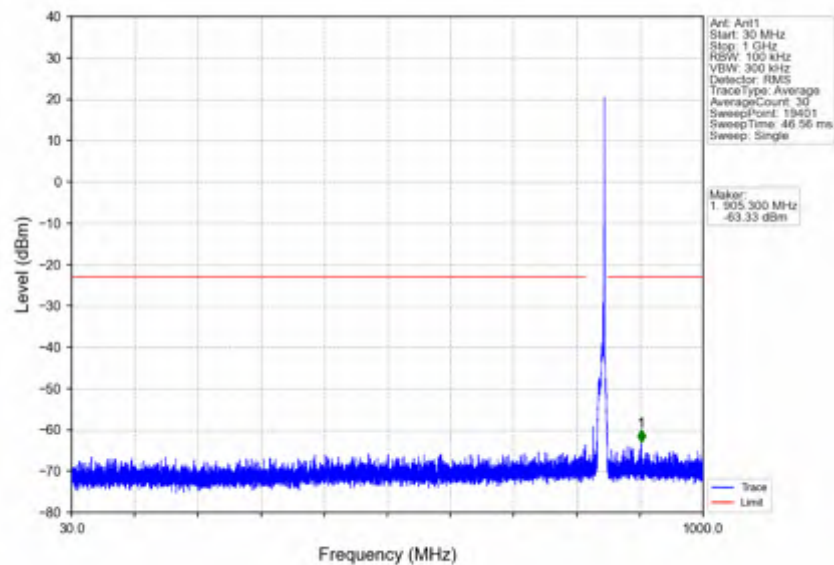
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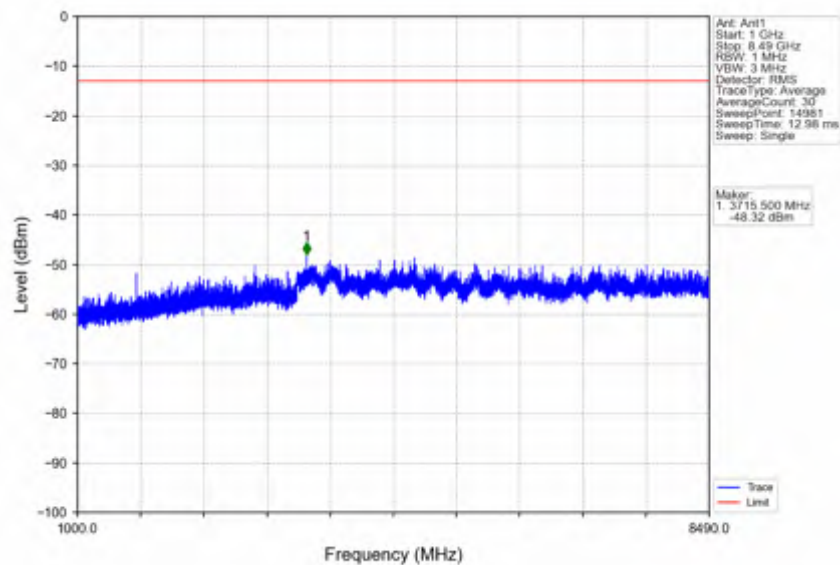
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_846.5MHz_Edge_1RB_Right



n5 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 846.5MHz Edge 1RB Right

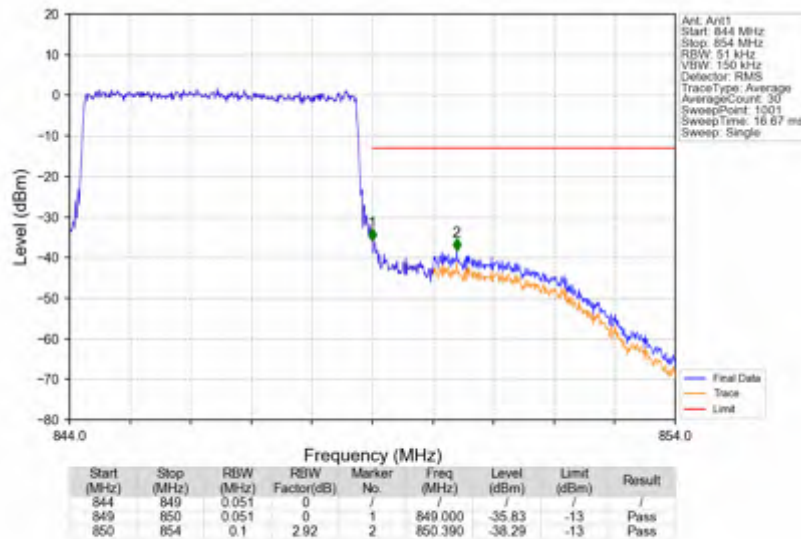


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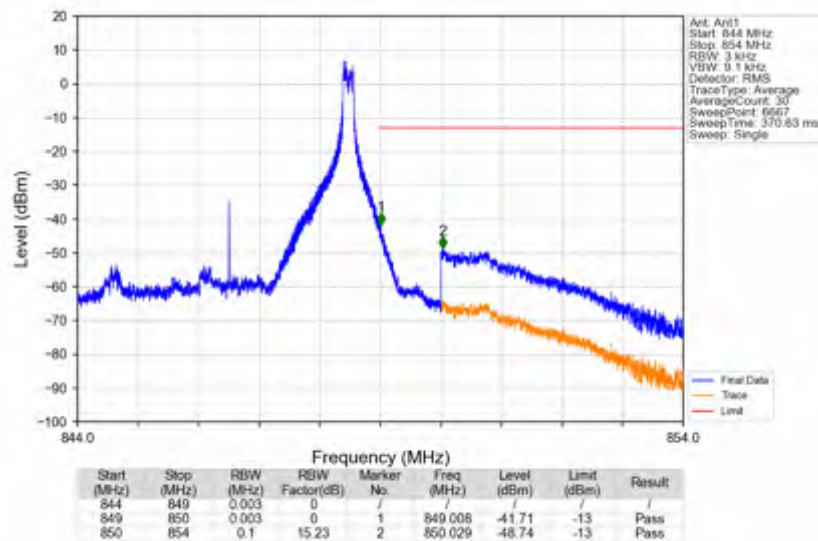
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_846.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_846.5MHz_Inner_1RB_Right



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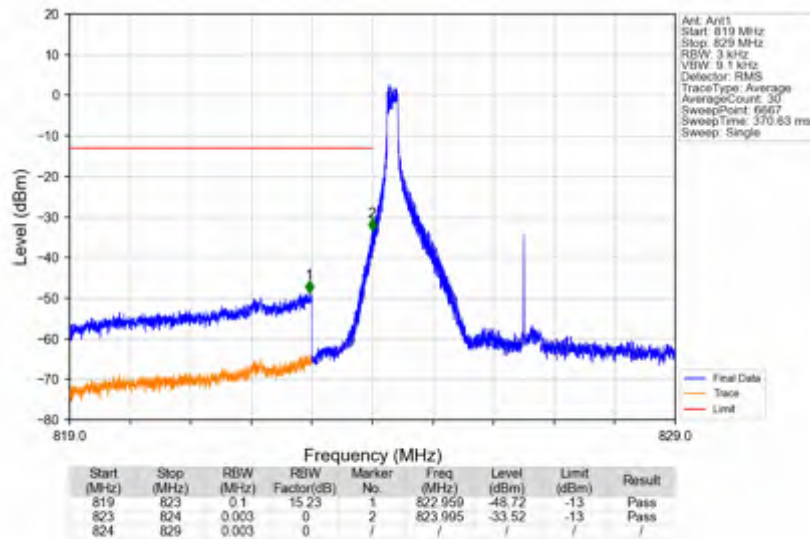
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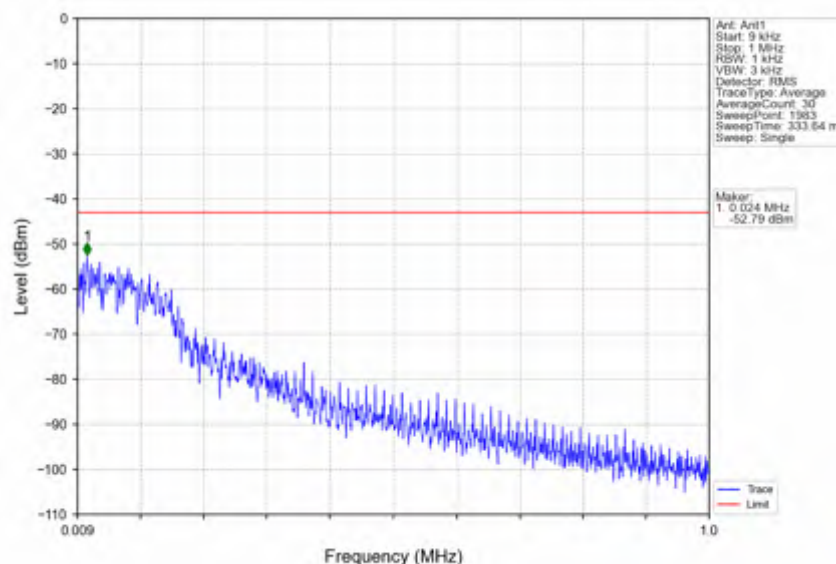
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_826.5MHz_Edge_1RB_Left



n5 15kHz SISO NTV 5MHz CP-OFDM QPSK 826.5MHz Edge 1RB Left

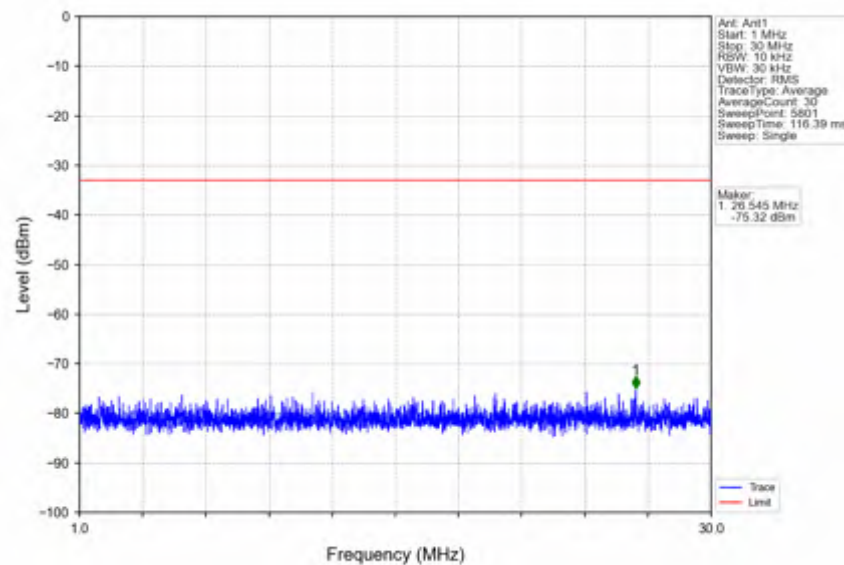


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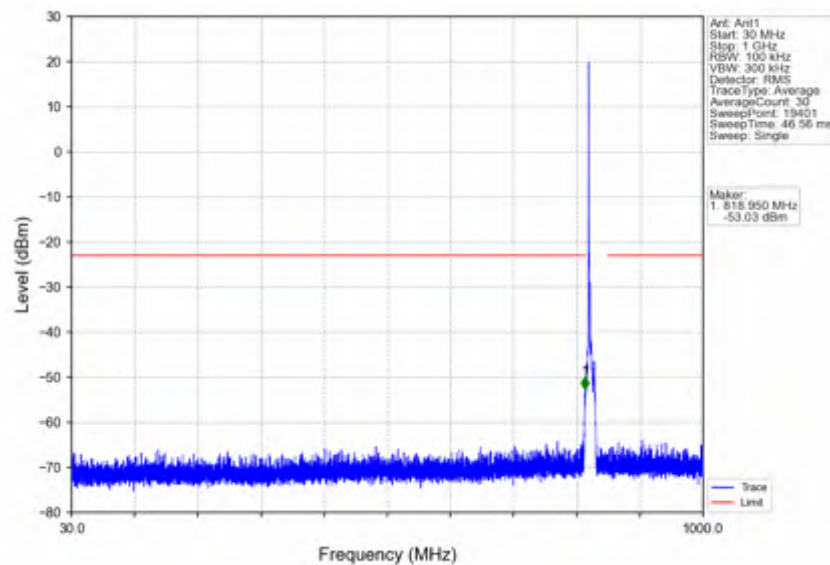
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_826.5MHz_Edge_1RB_Left



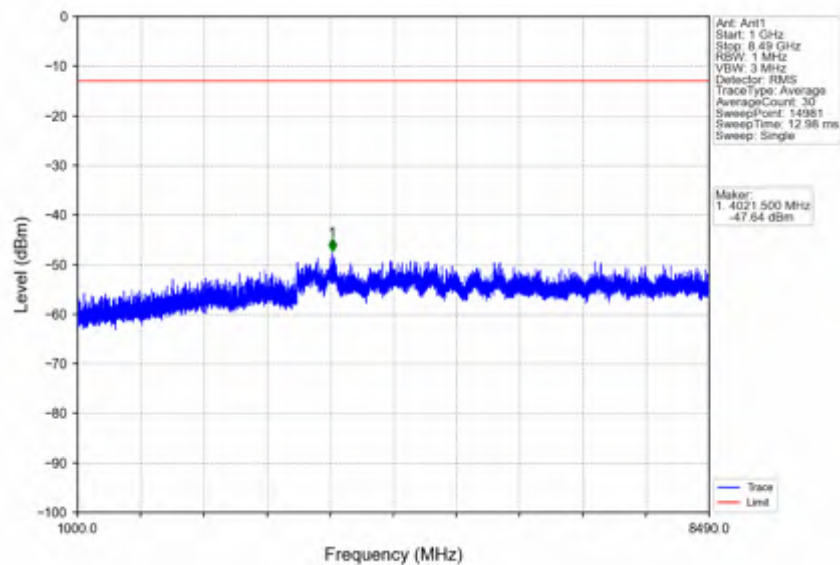
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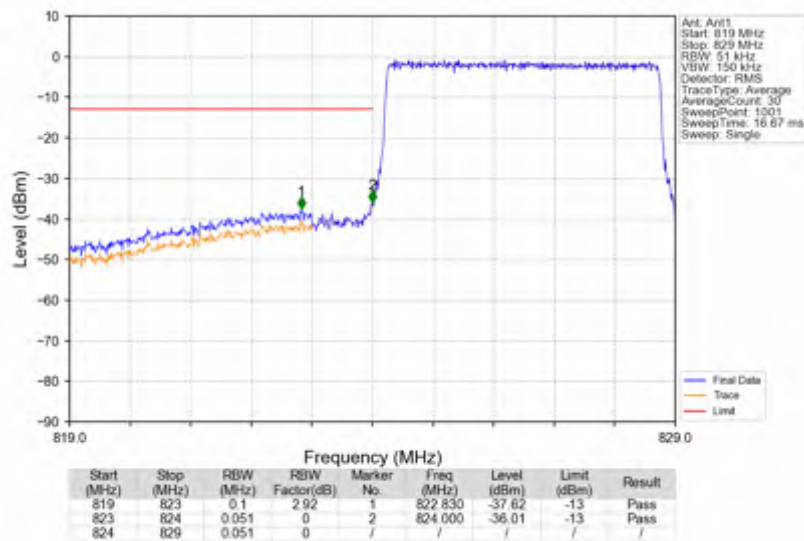
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_826.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_826.5MHz_Outer_Full



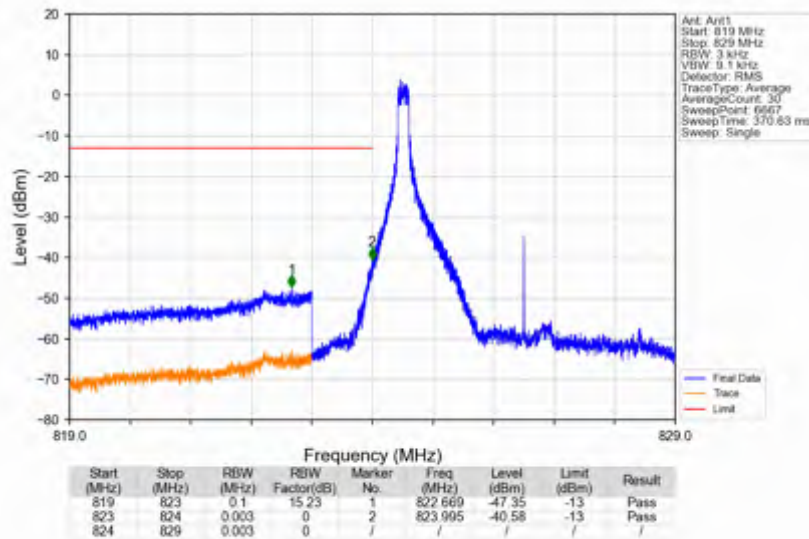
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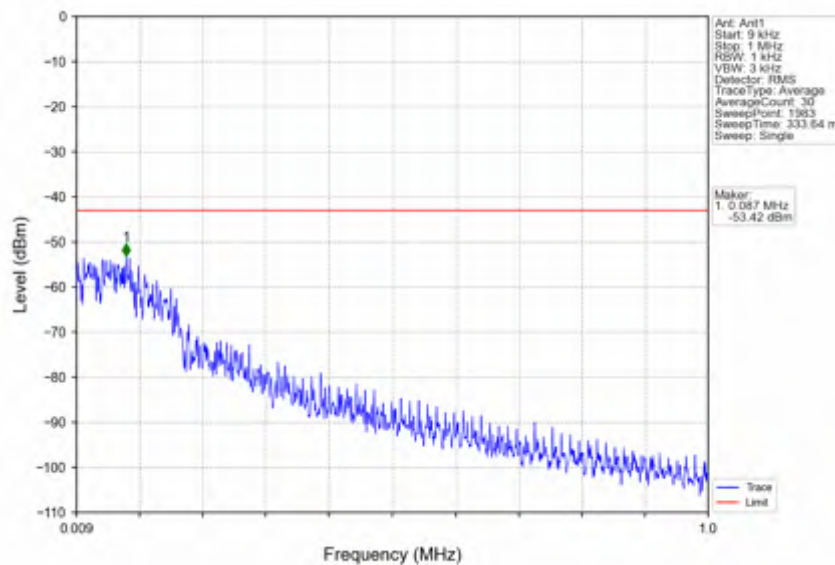
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK 826.5MHz Inner 1RB Left



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK 836.5MHz Edge 1RB Left

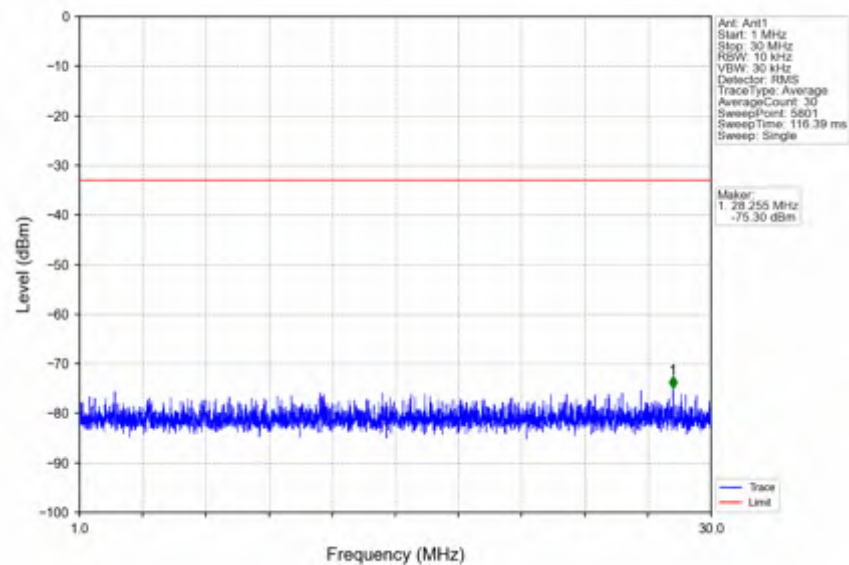


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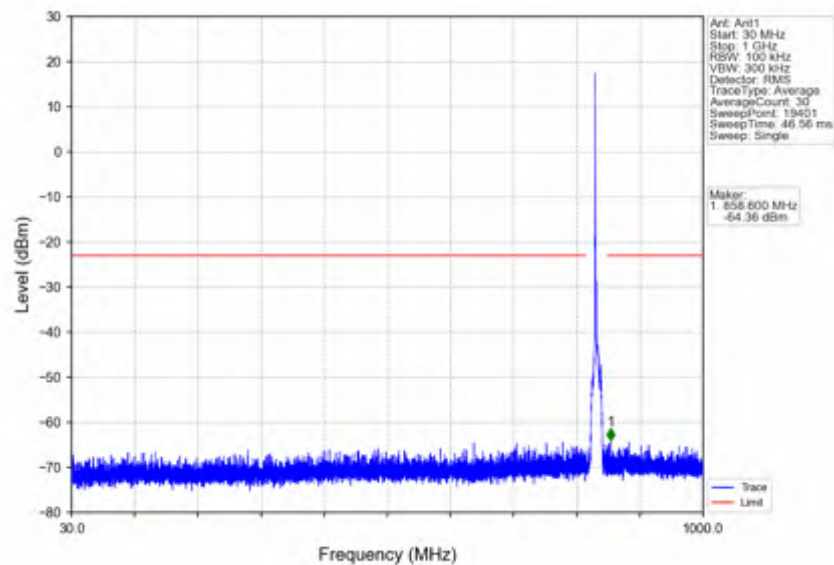
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_836.5MHz_Edge_1RB_Left



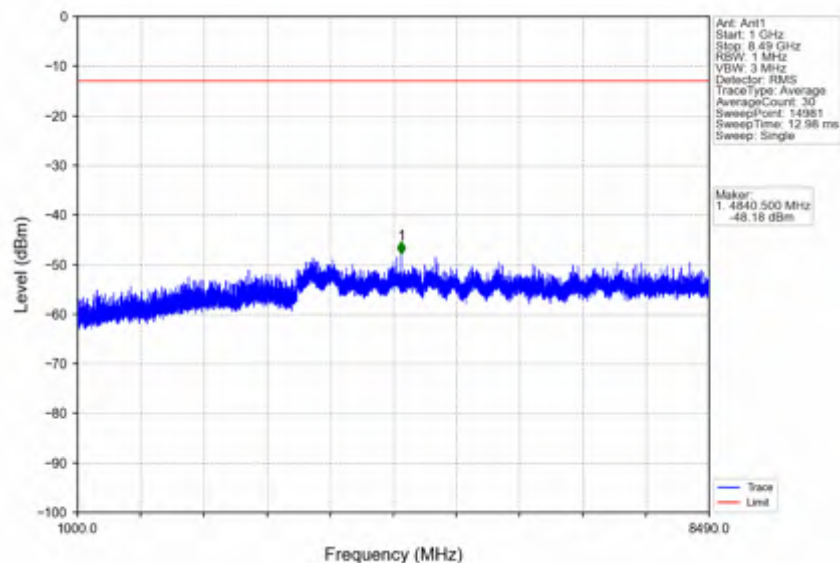
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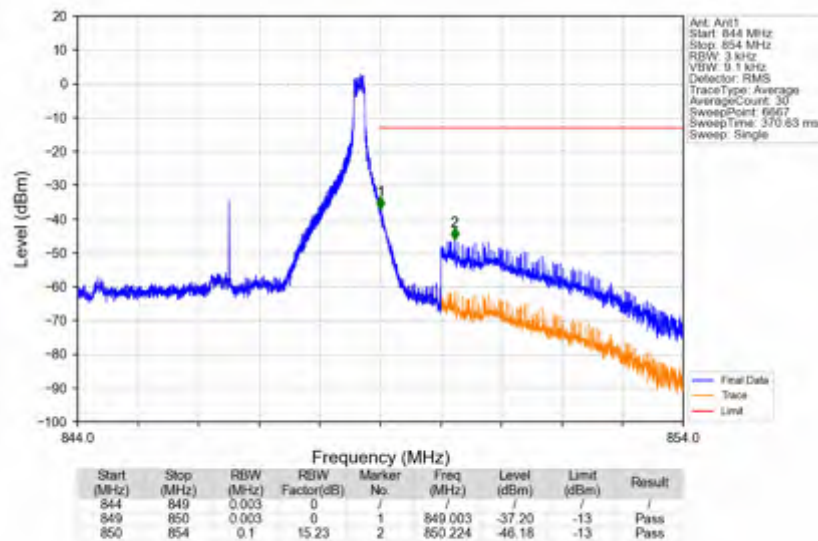
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_836.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_846.5MHz_Edge_1RB_Right



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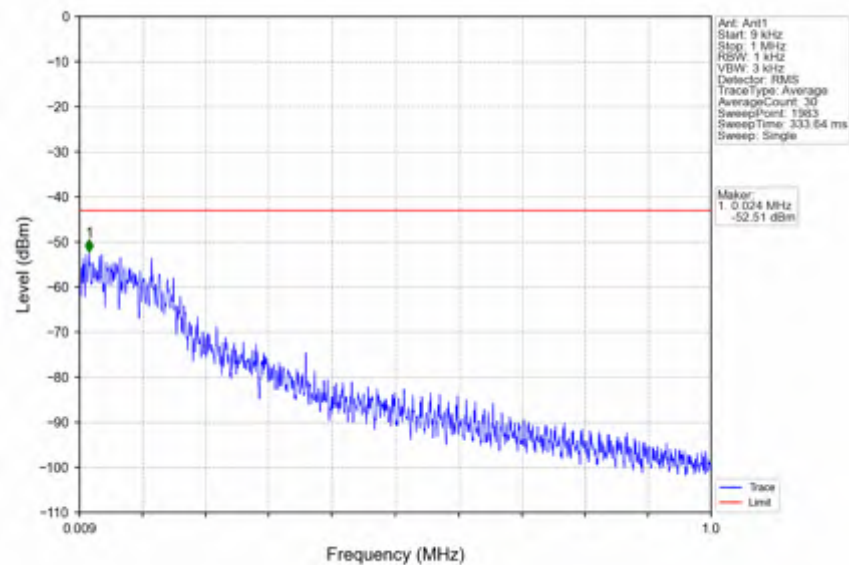
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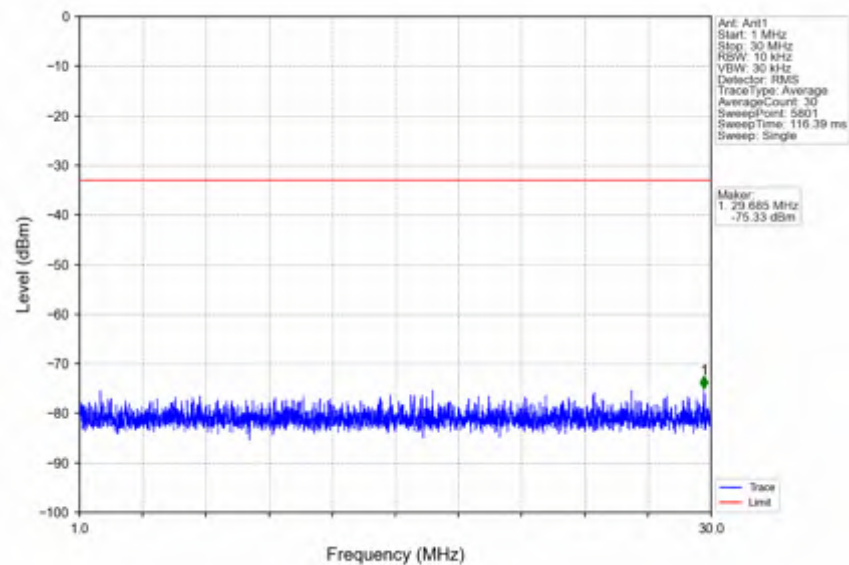
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_846.5MHz_Edge_1RB_Right



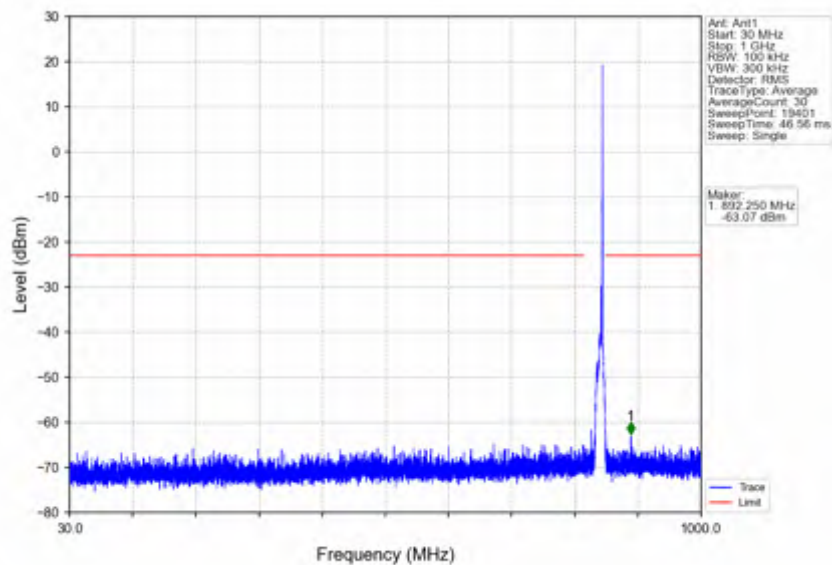
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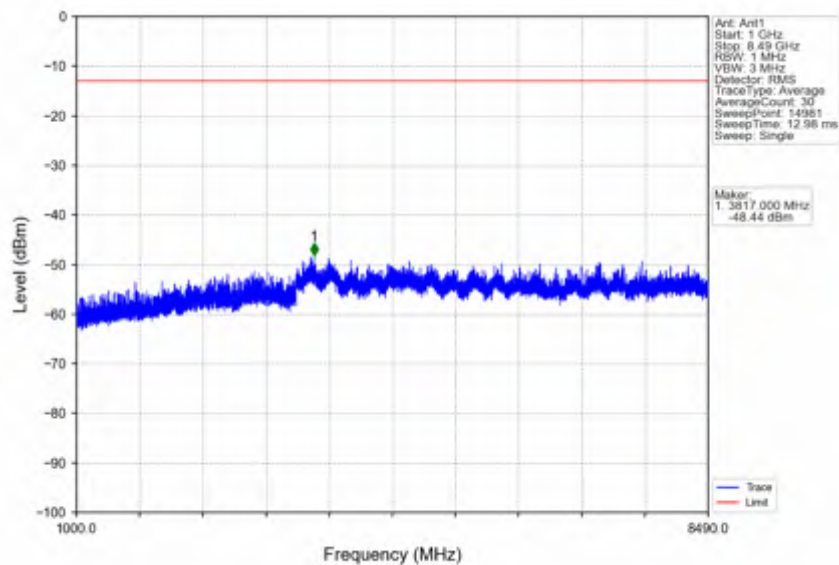
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_846.5MHz_Edge_1RB_Right



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_846.5MHz_Edge_1RB_Right



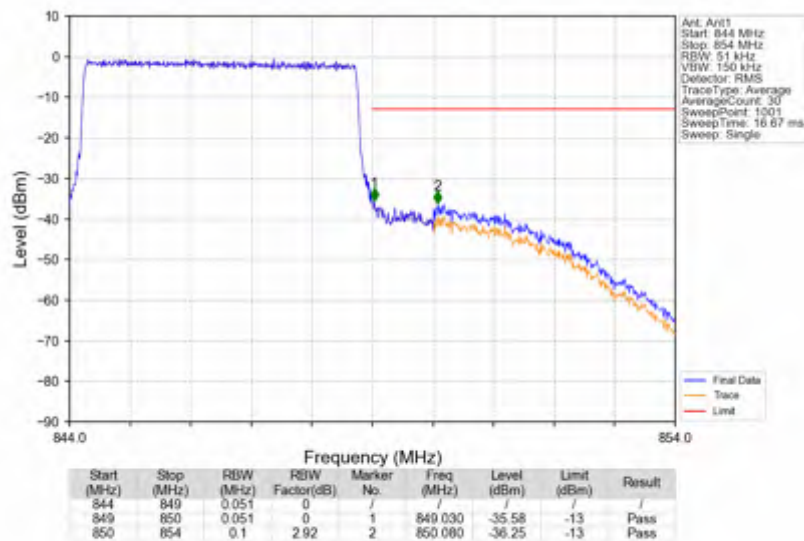
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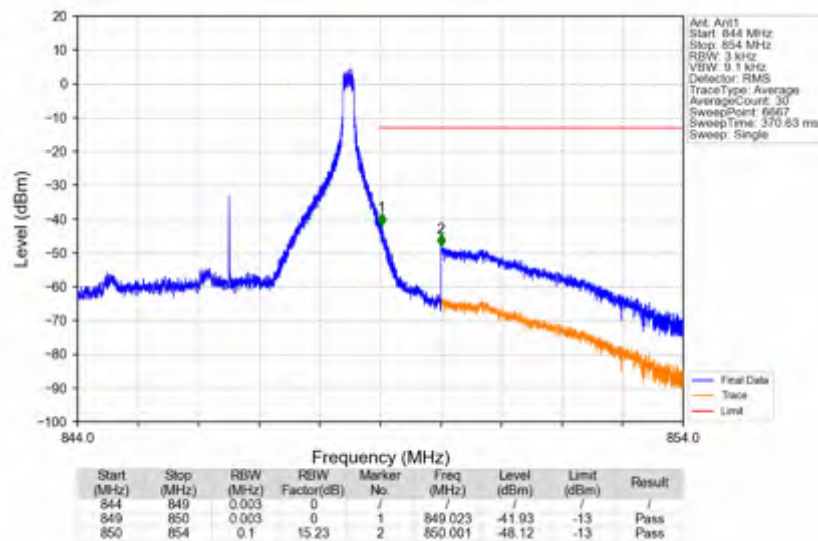
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_846.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_846.5MHz_Inner_1RB_Right



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2.2 15k_SISO_10MHz_NTNV

2.2.1 Test Result

5G NR n5 SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	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
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



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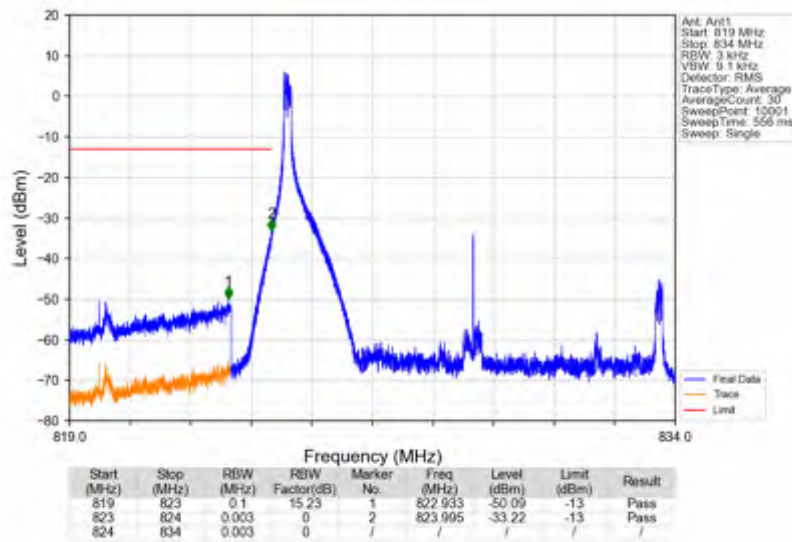
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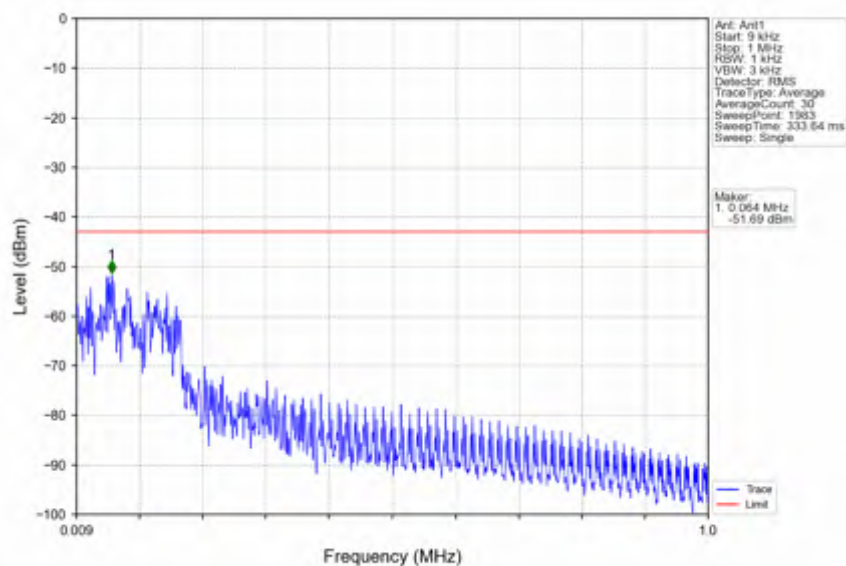
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2.2.2 Test Graph

n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_829MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_829MHz_Edge_1RB_Left



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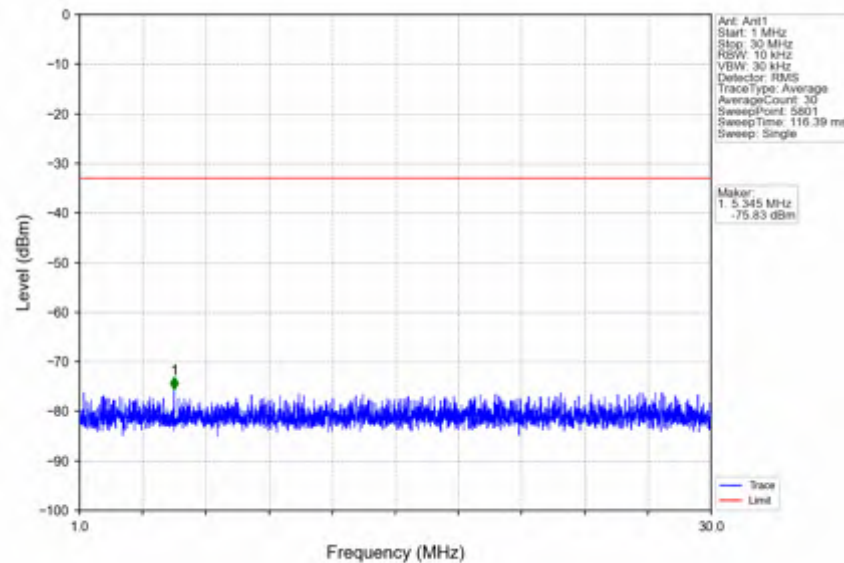
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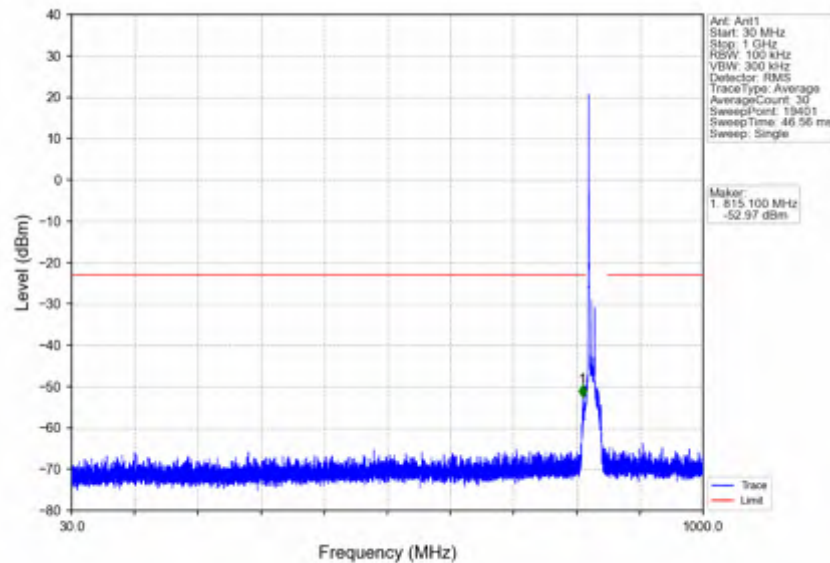
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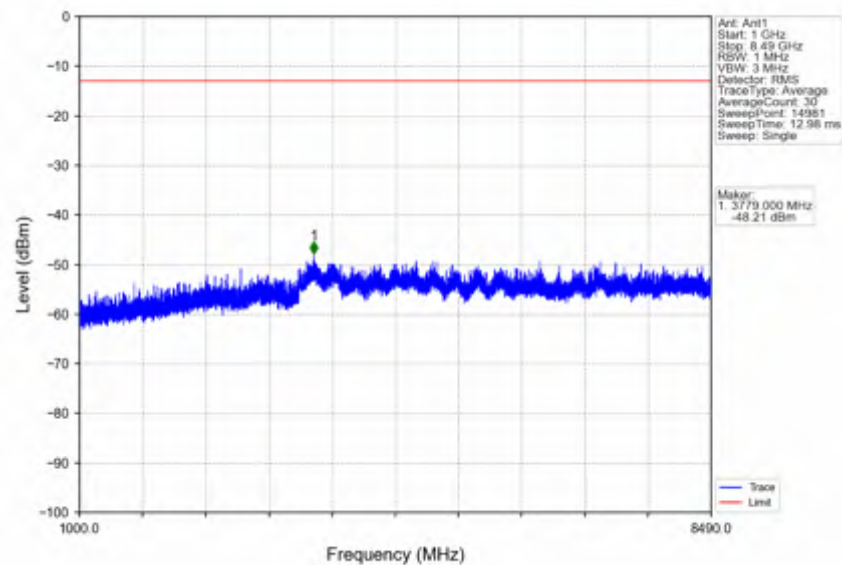
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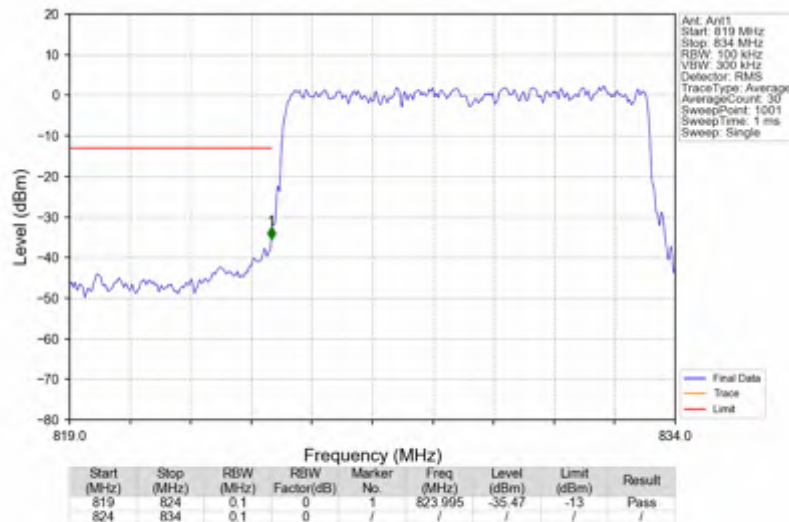
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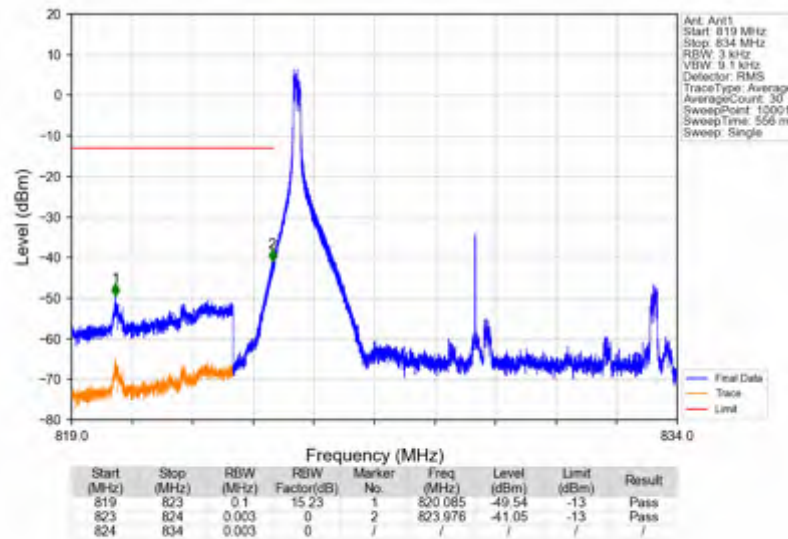
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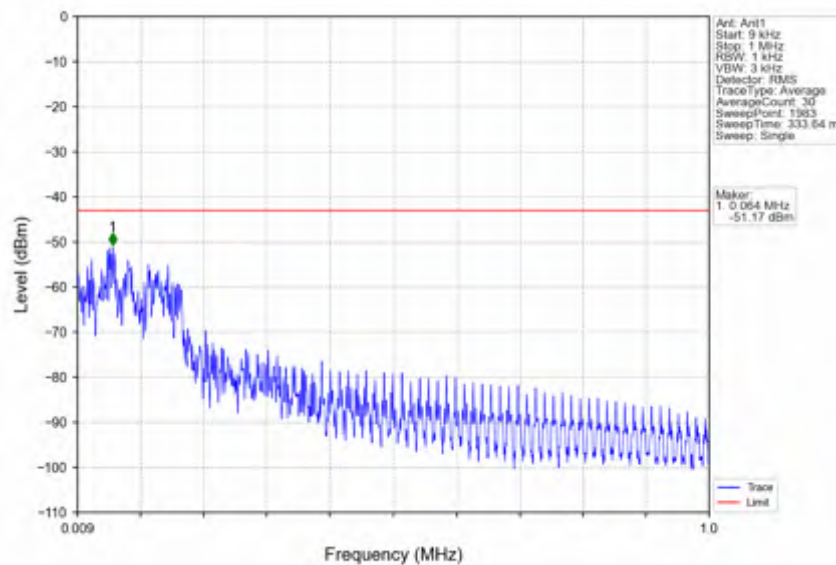
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_836.5MHz_Edge_1RB_Left

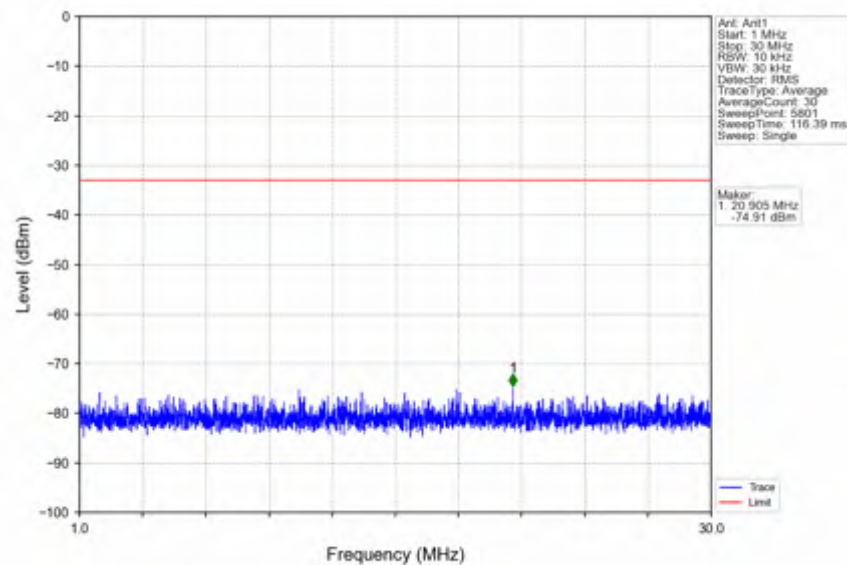


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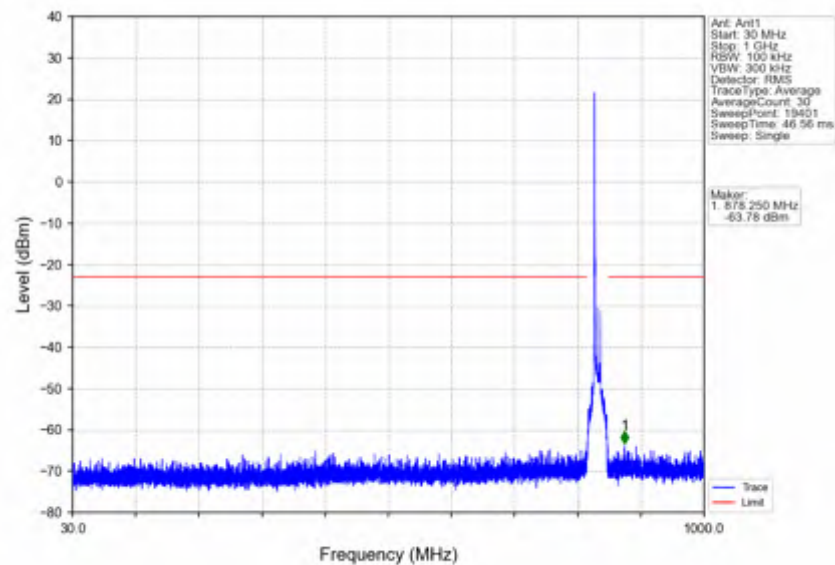
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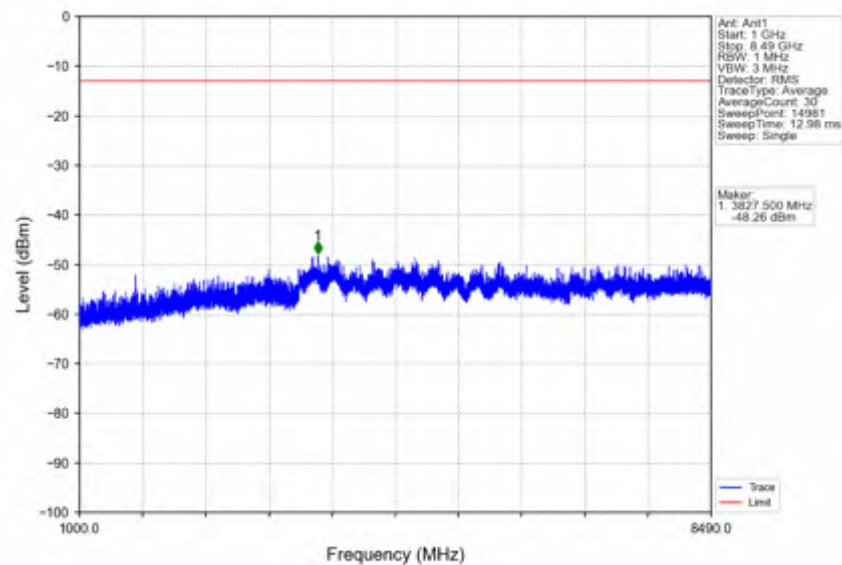
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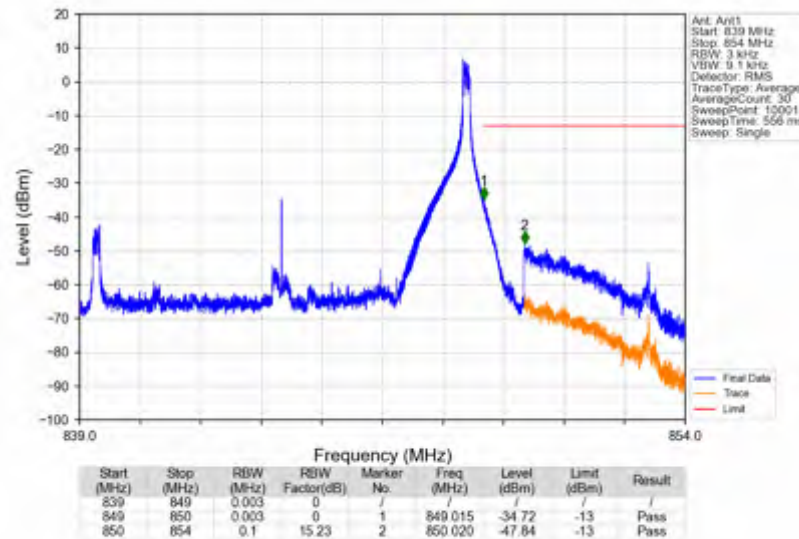
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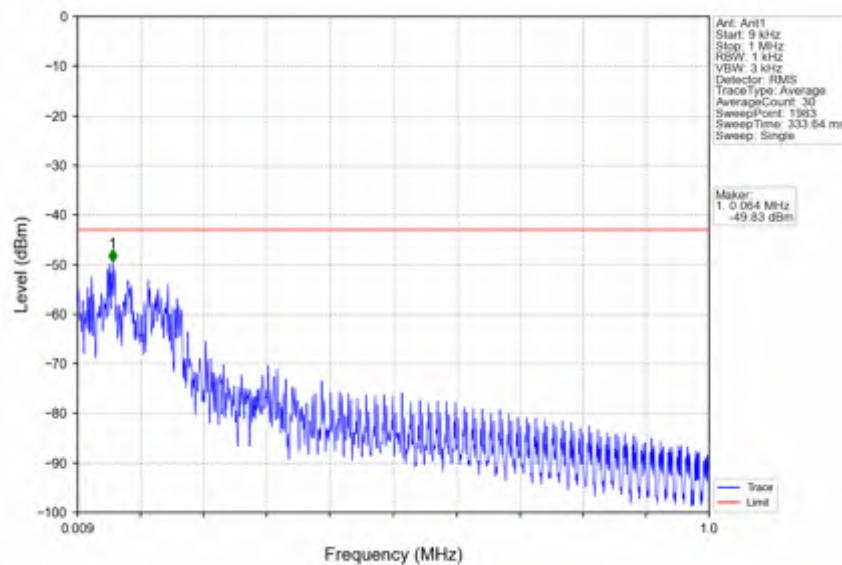
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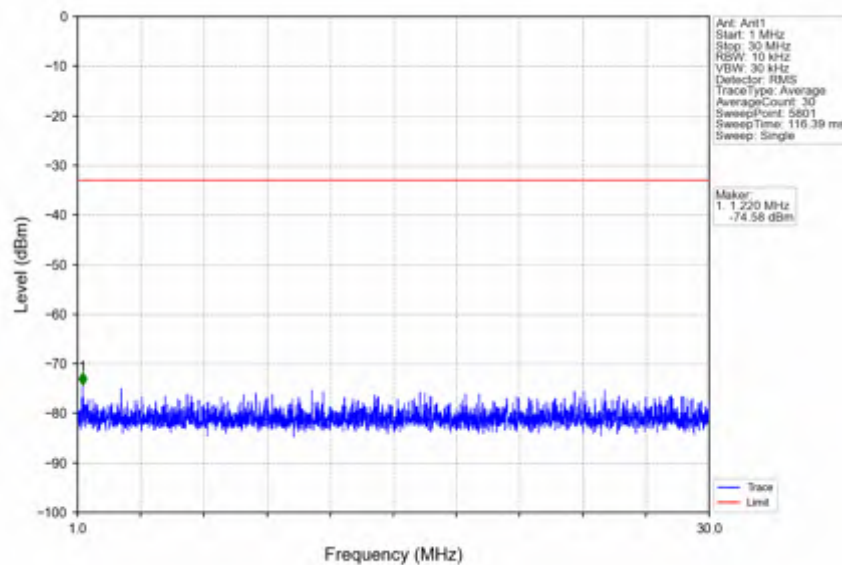
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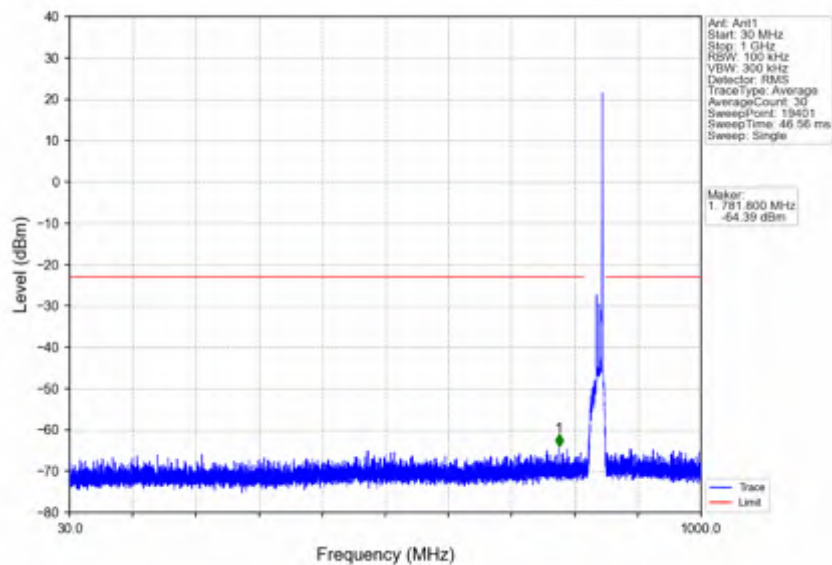
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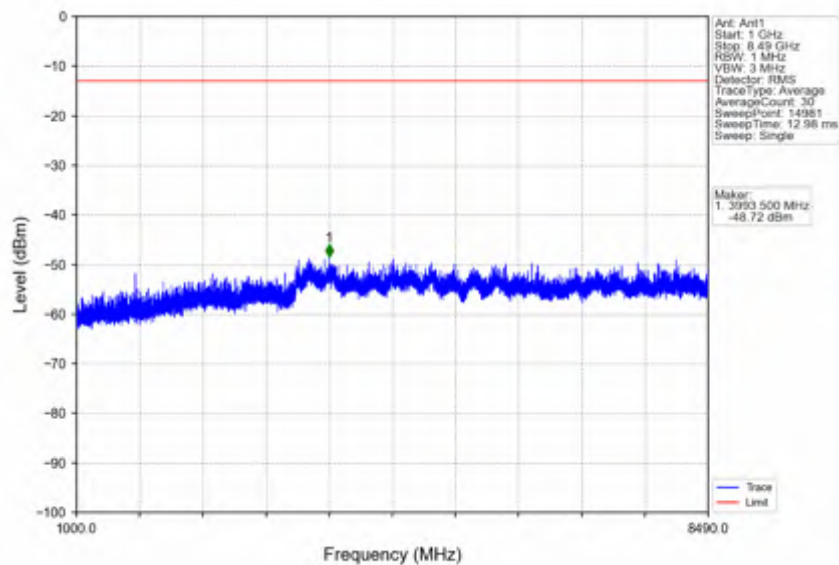
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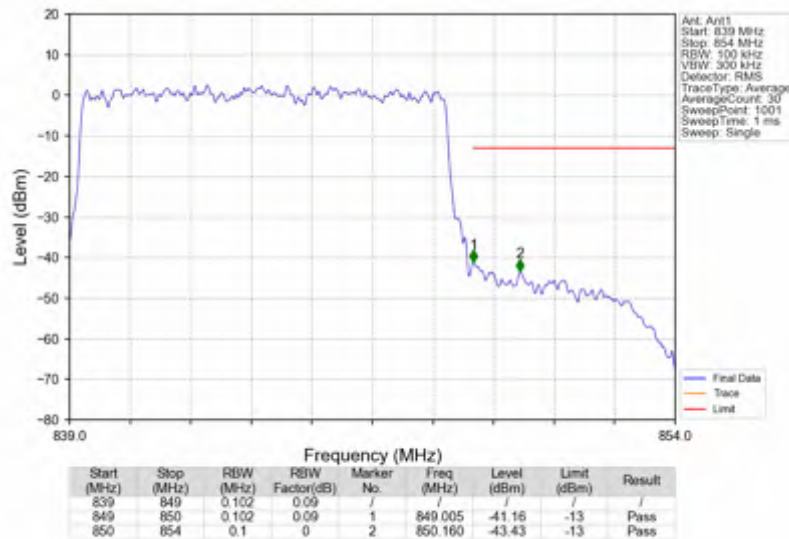


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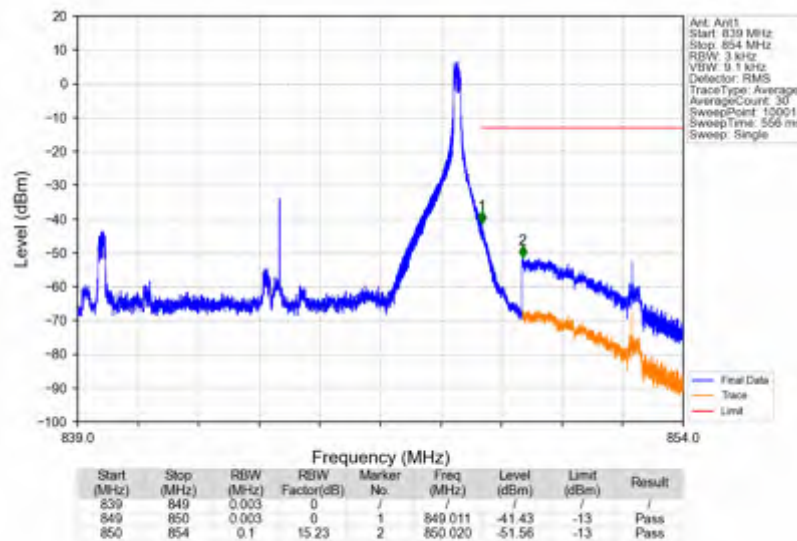
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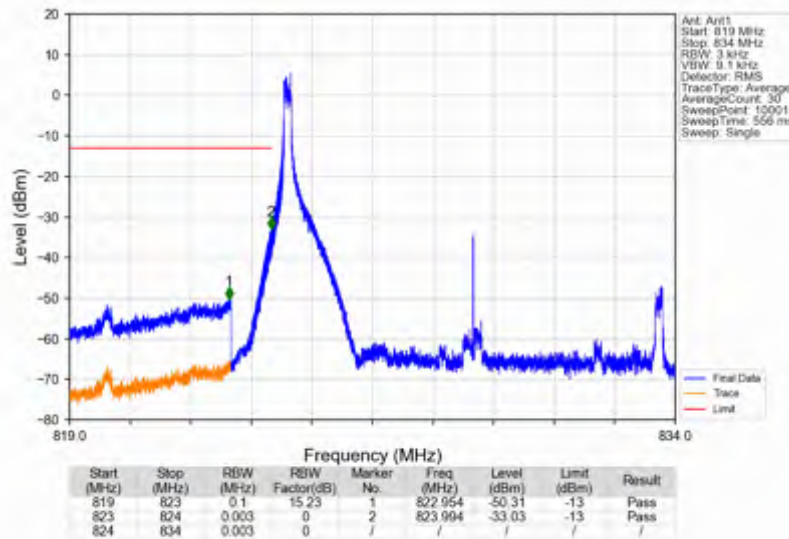
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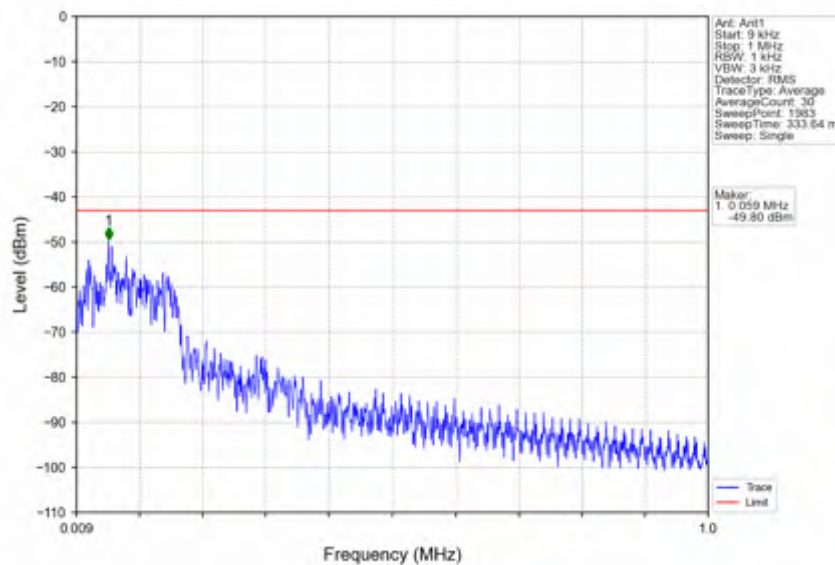
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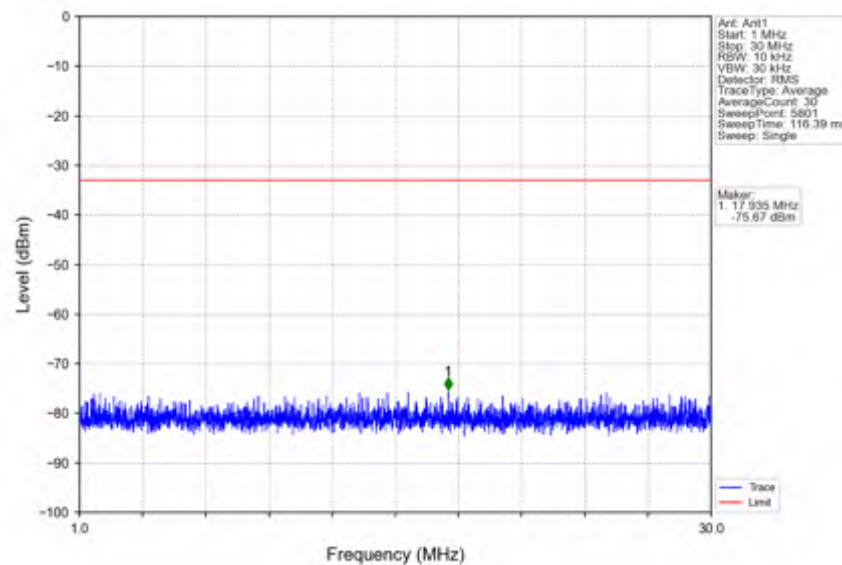
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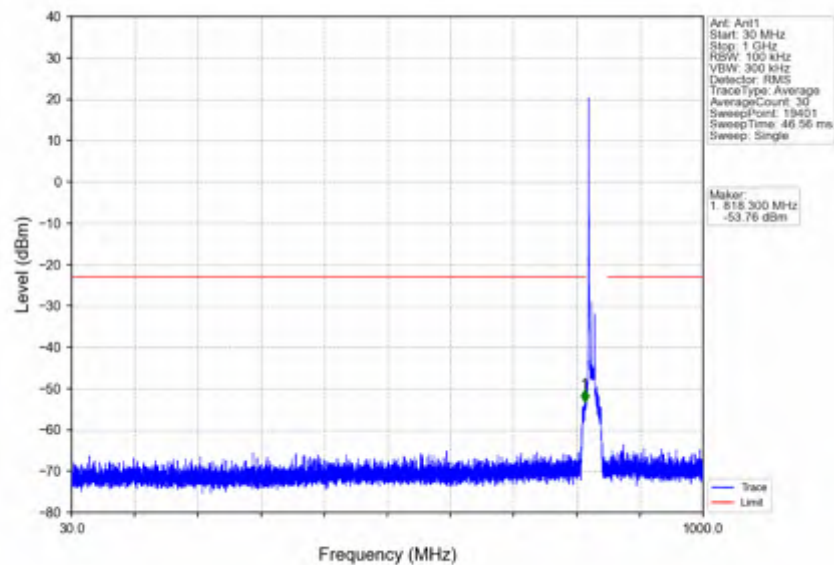
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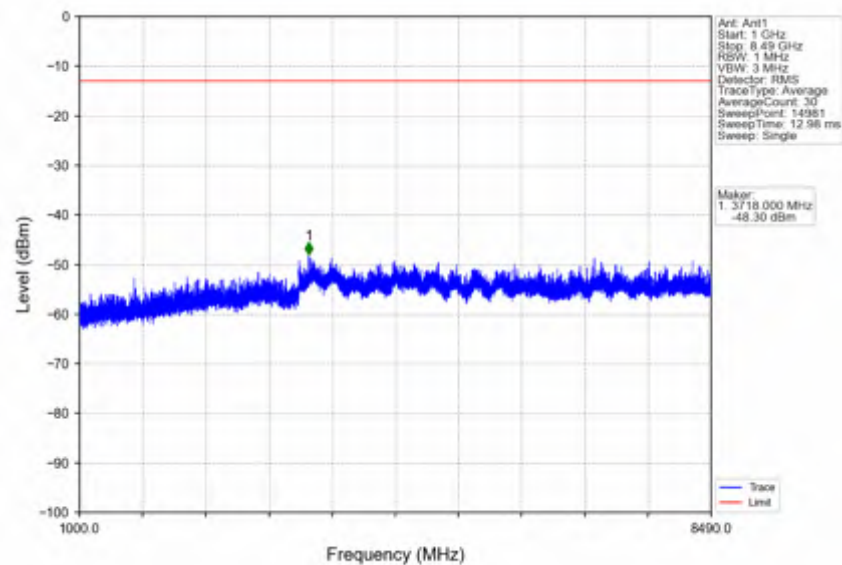
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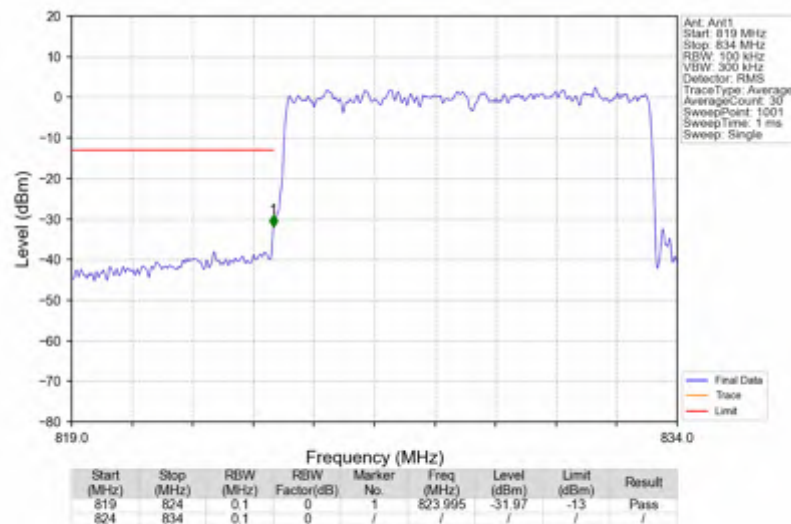
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_829MHz_Outer_Full



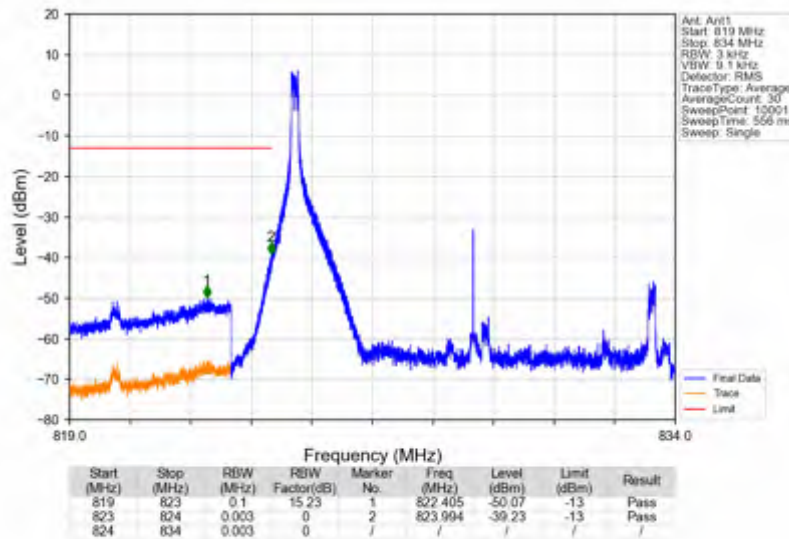
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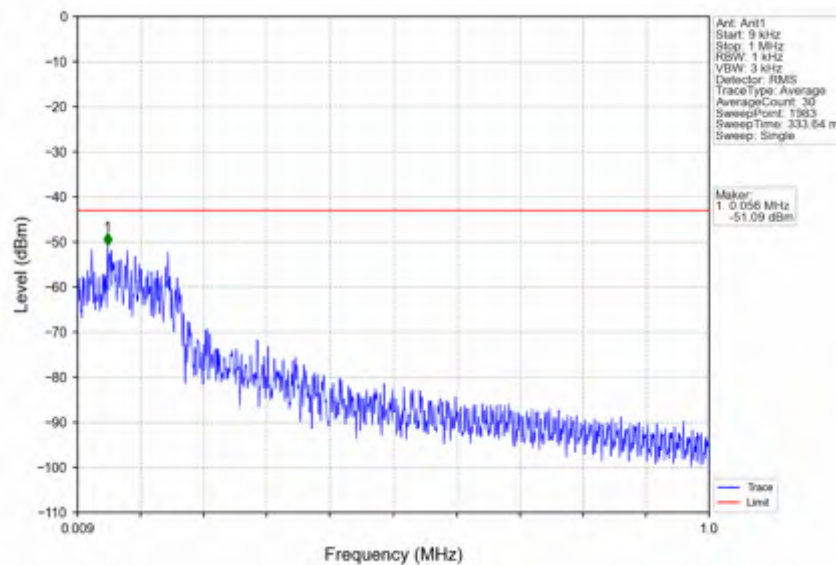
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_836.5MHz_Edge_1RB_Left



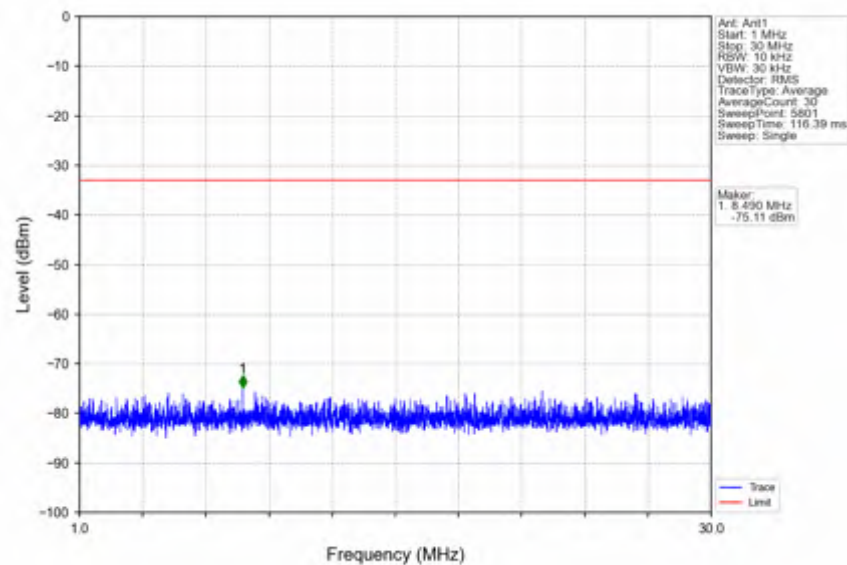
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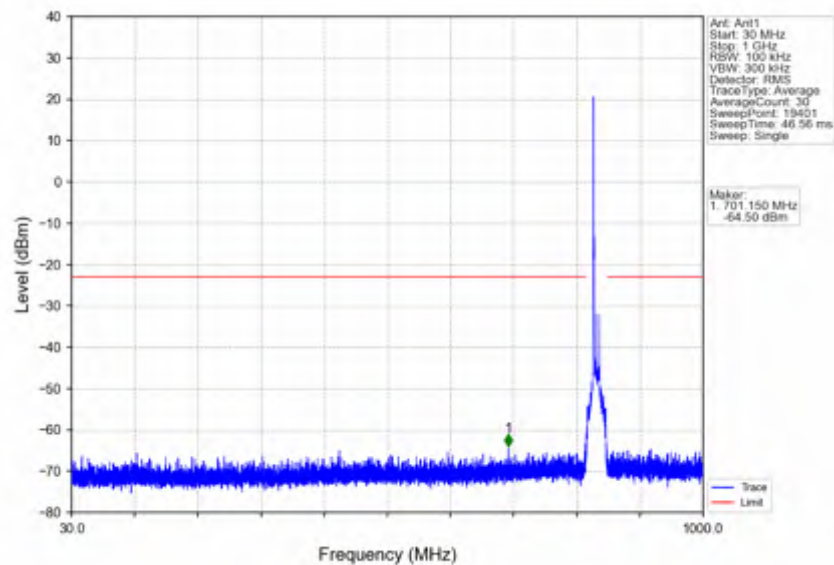
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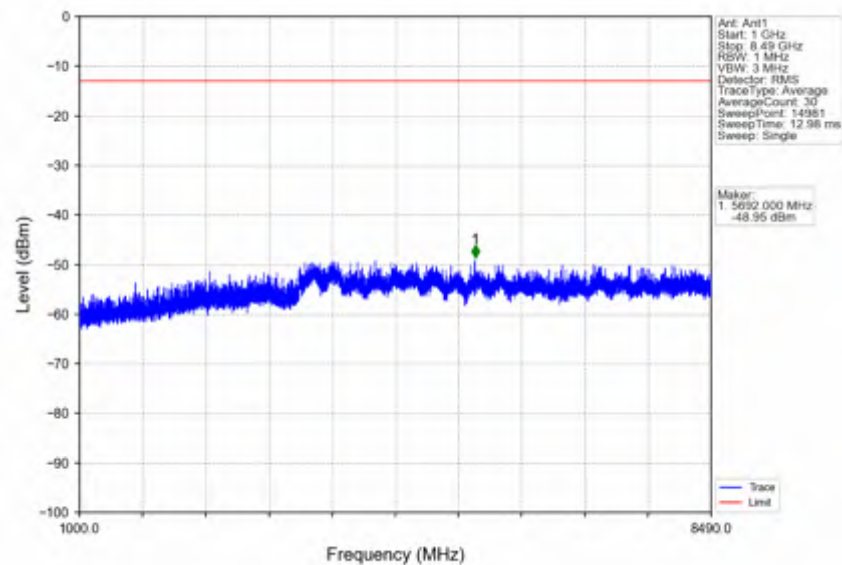
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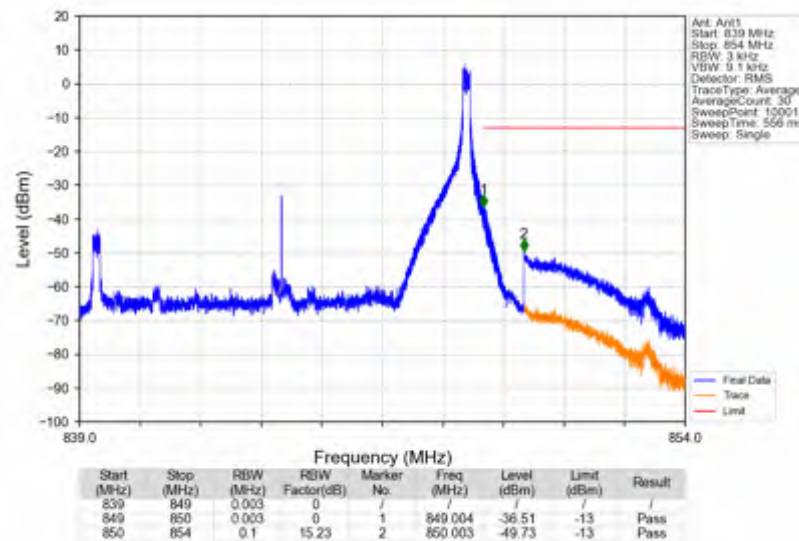
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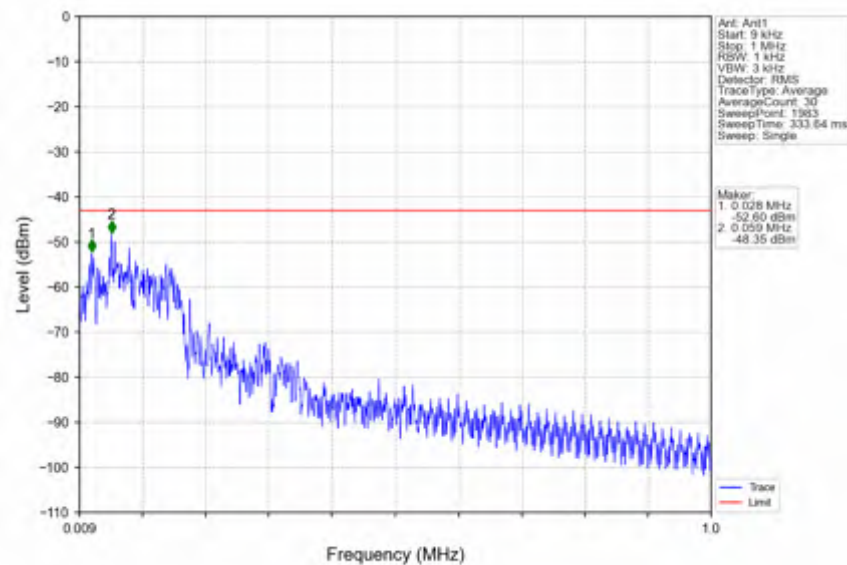
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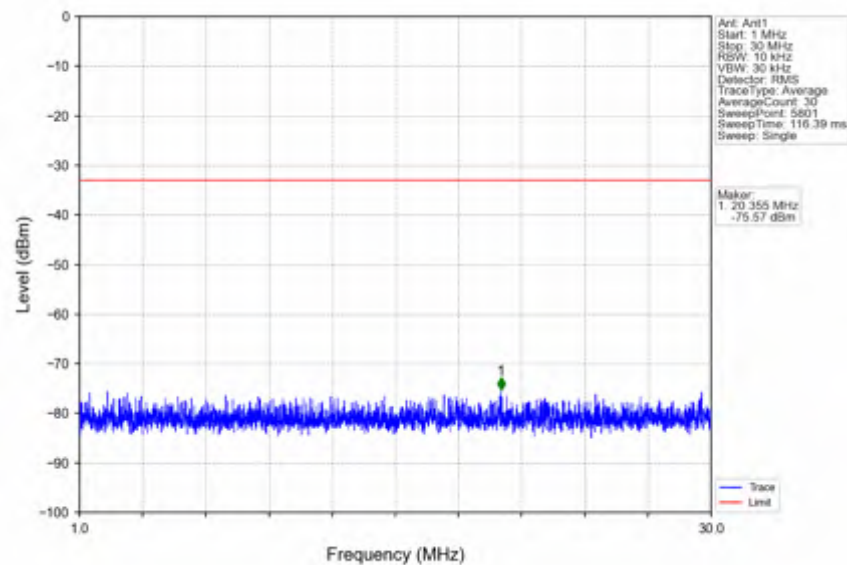
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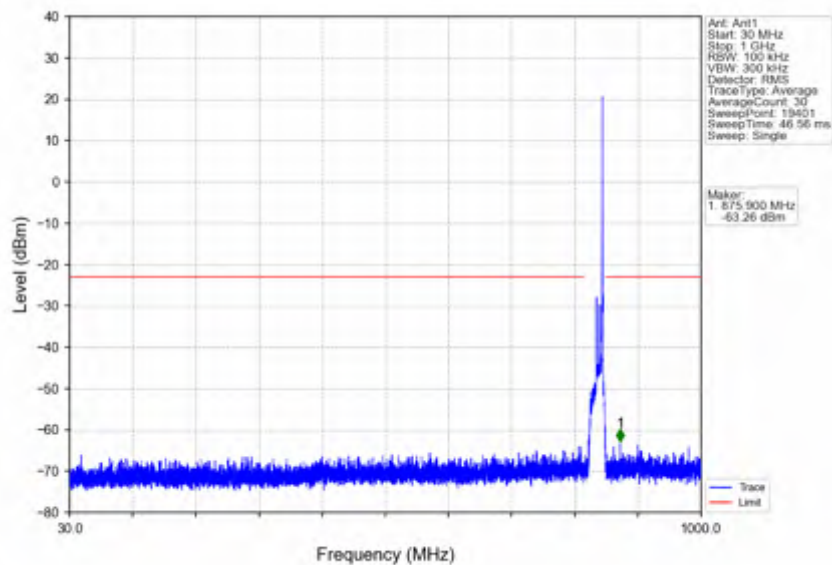
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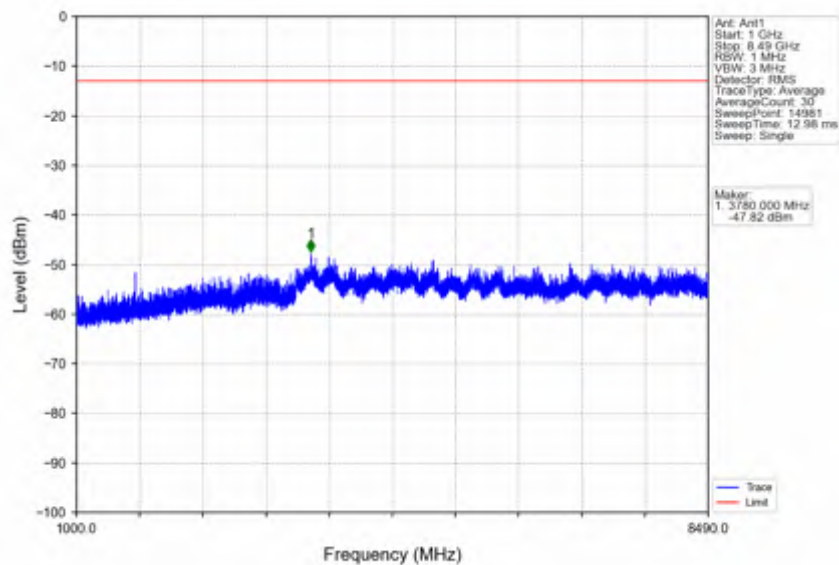
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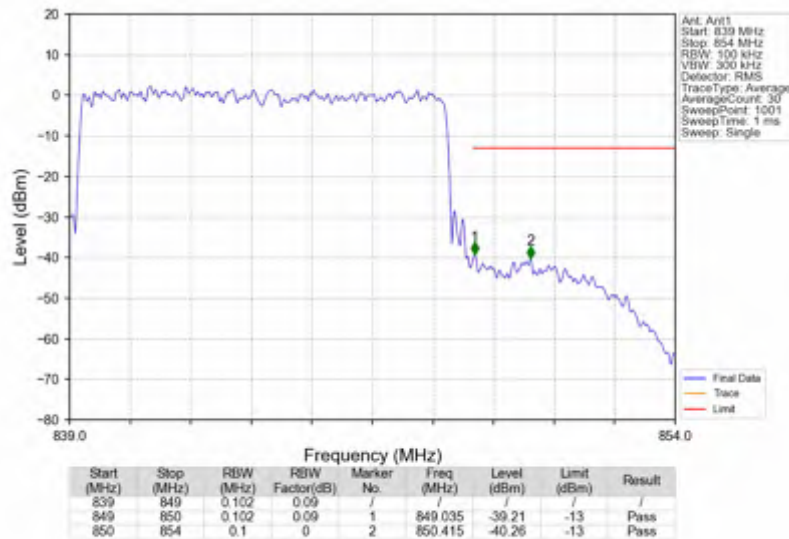
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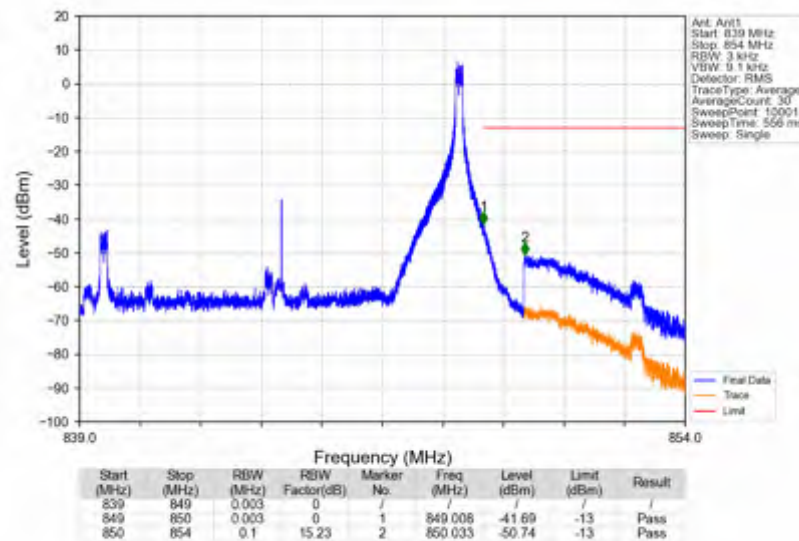
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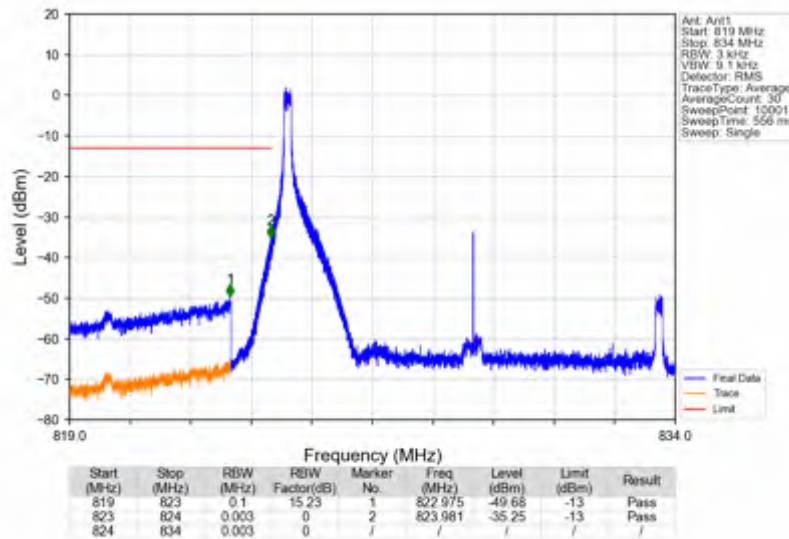
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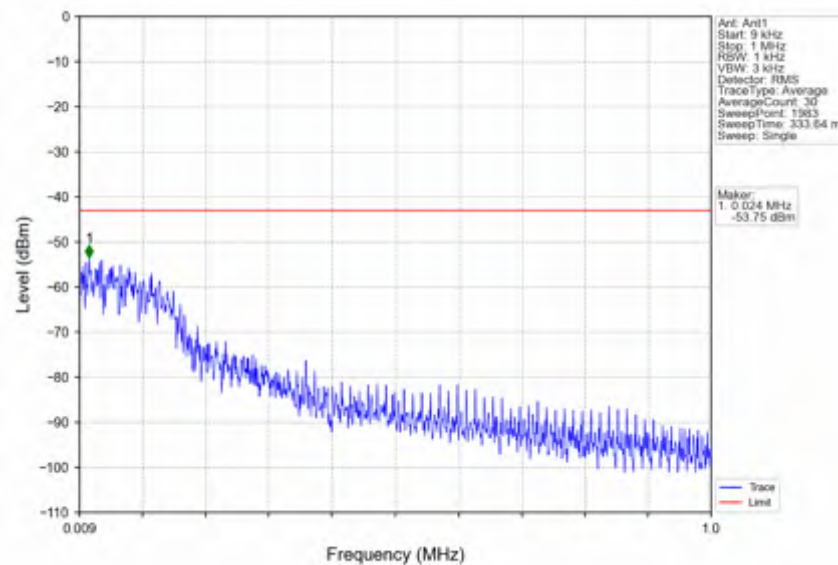
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_829MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_829MHz_Edge_1RB_Left

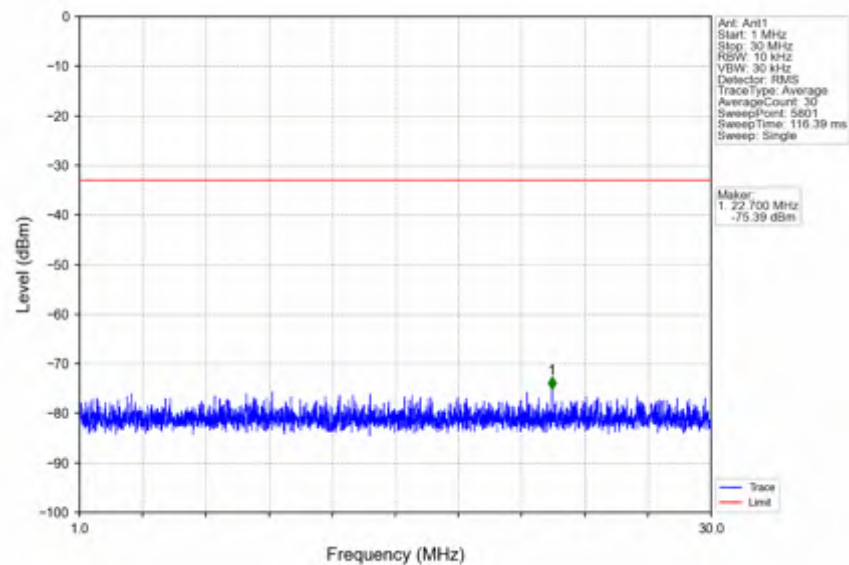


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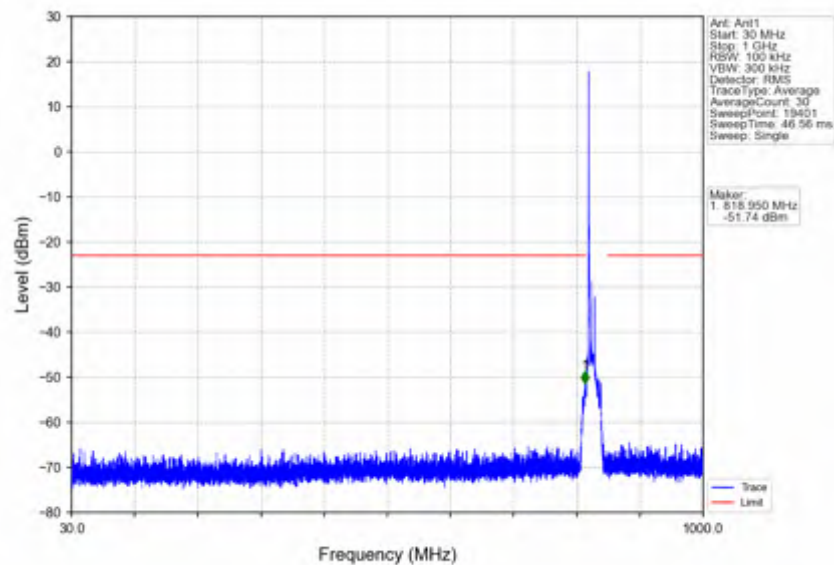
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_829MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_829MHz_Edge_1RB_Left



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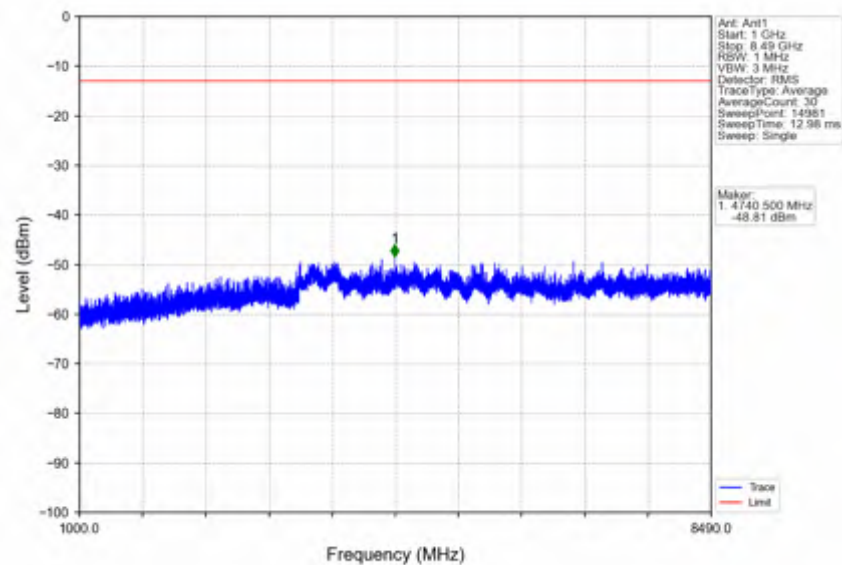
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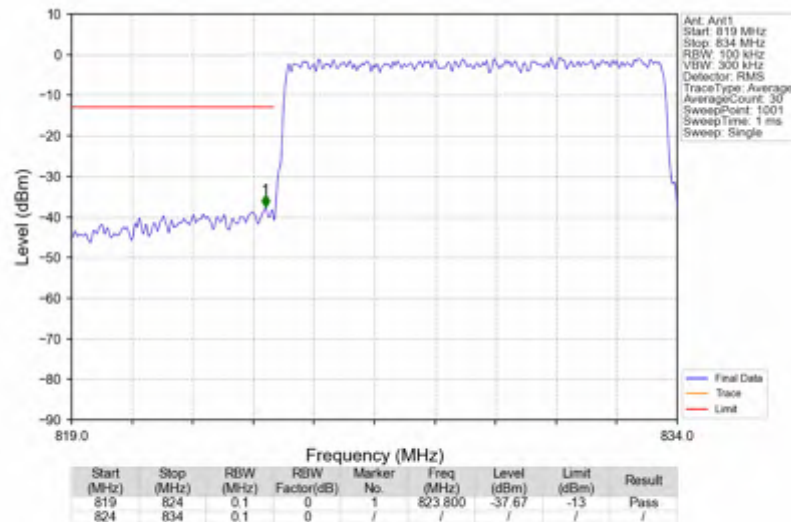
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_829MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_829MHz_Outer_Full



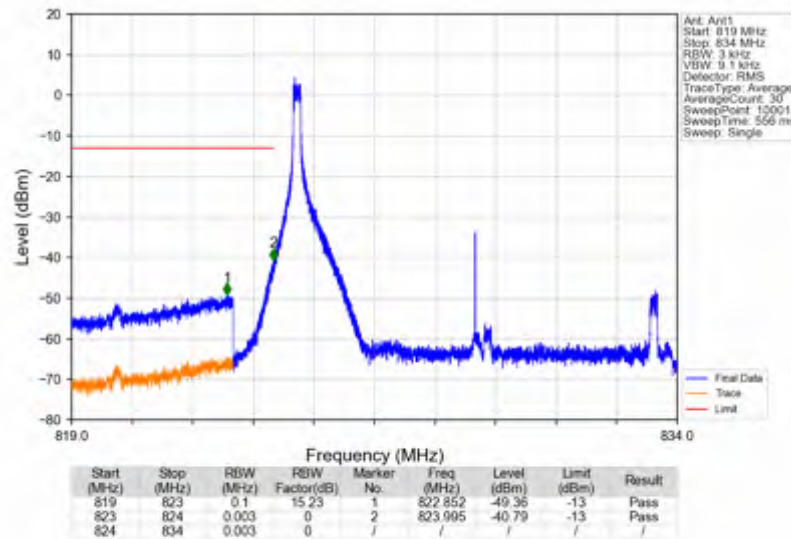
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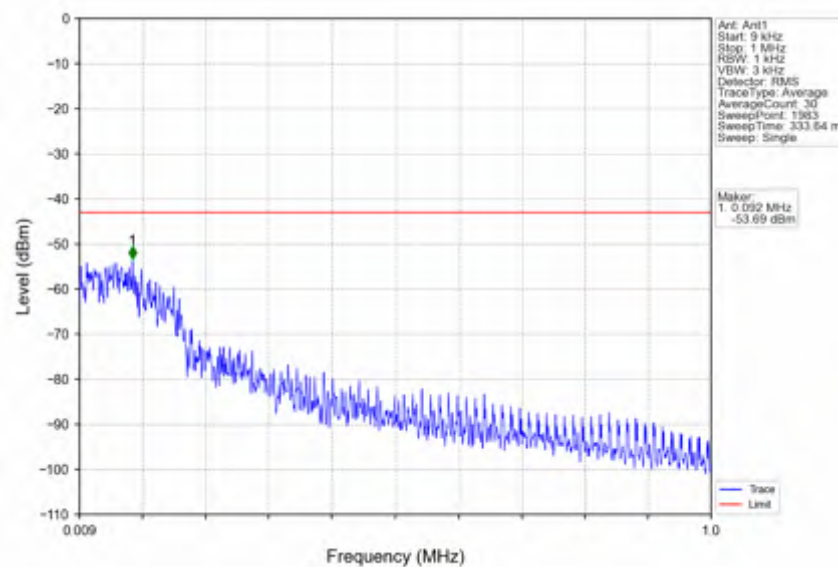
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_829MHz_Inner_1RB_Left



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_836.5MHz_Edge_1RB_Left



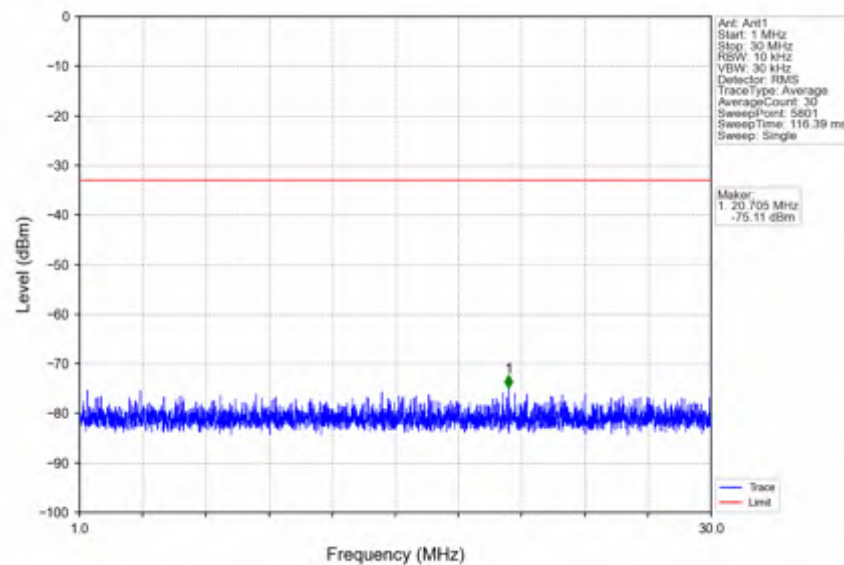
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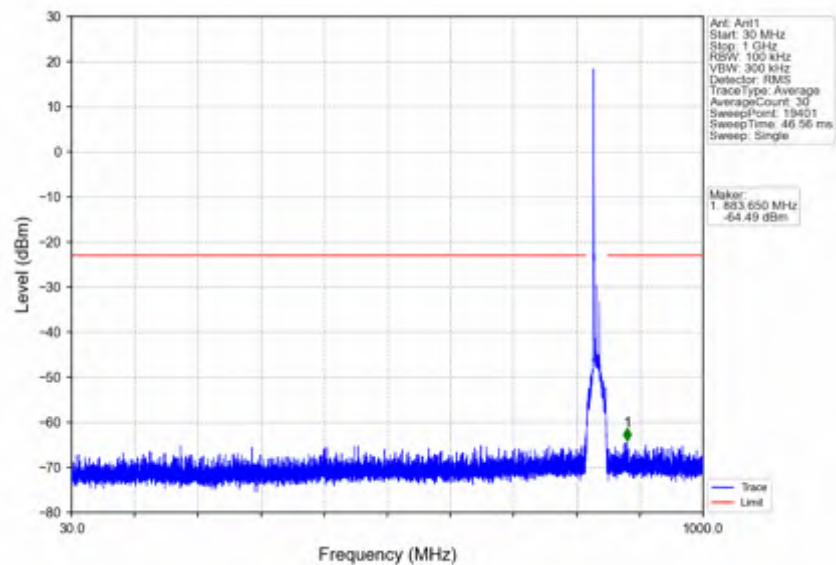
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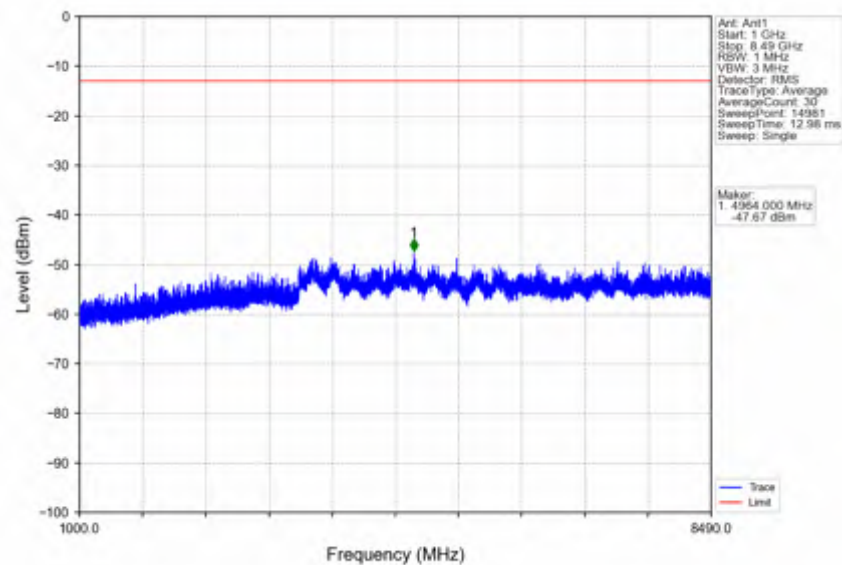
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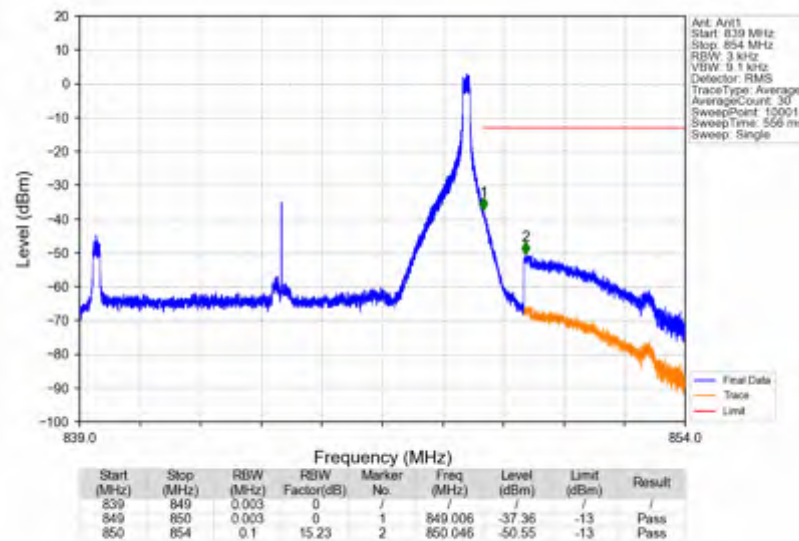
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_836.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_844MHz_Edge_1RB_Right



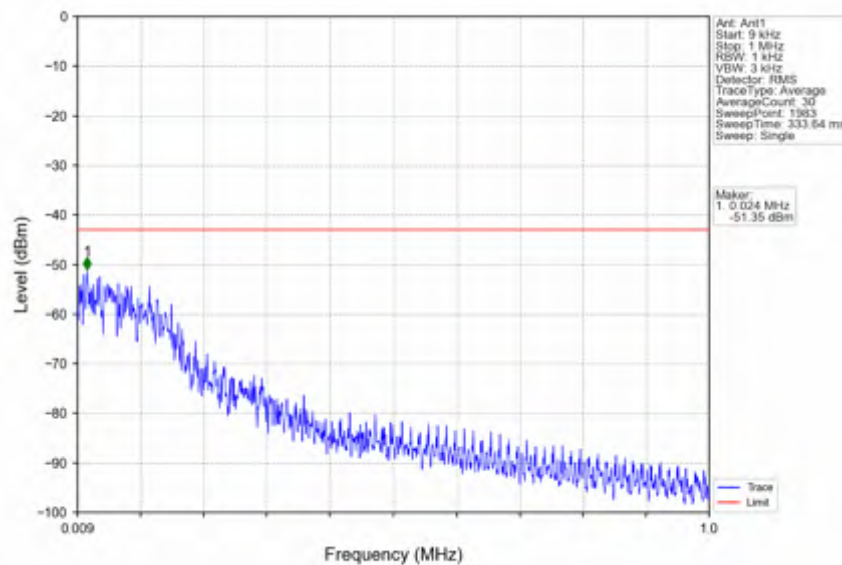
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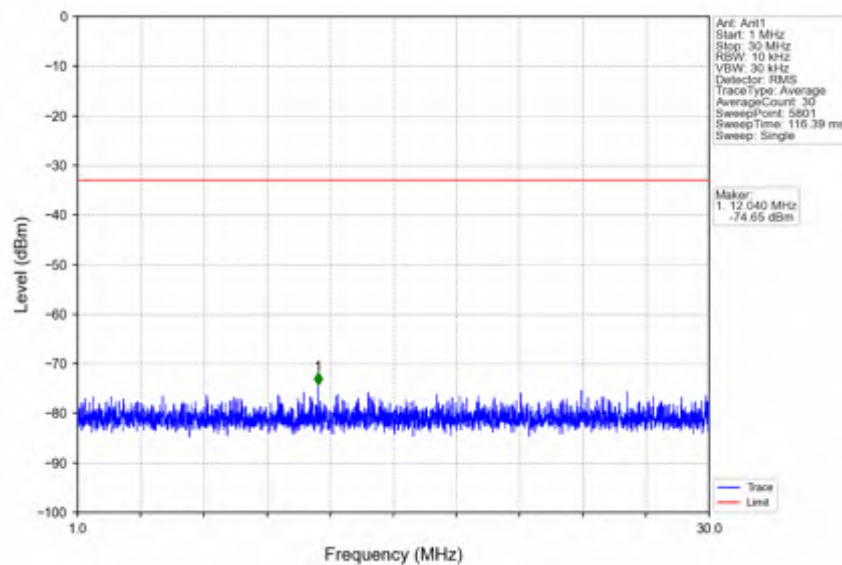
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_844MHz_Edge_1RB_Right



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_844MHz_Edge_1RB_Right



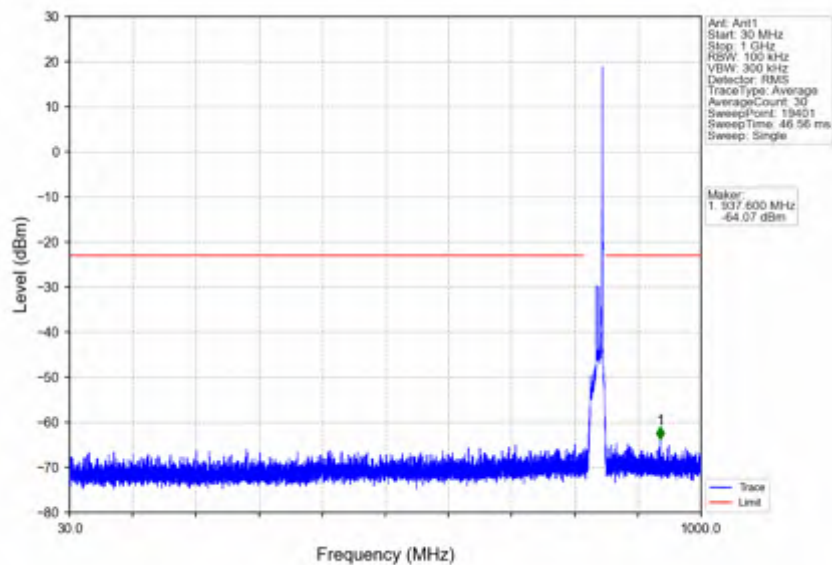
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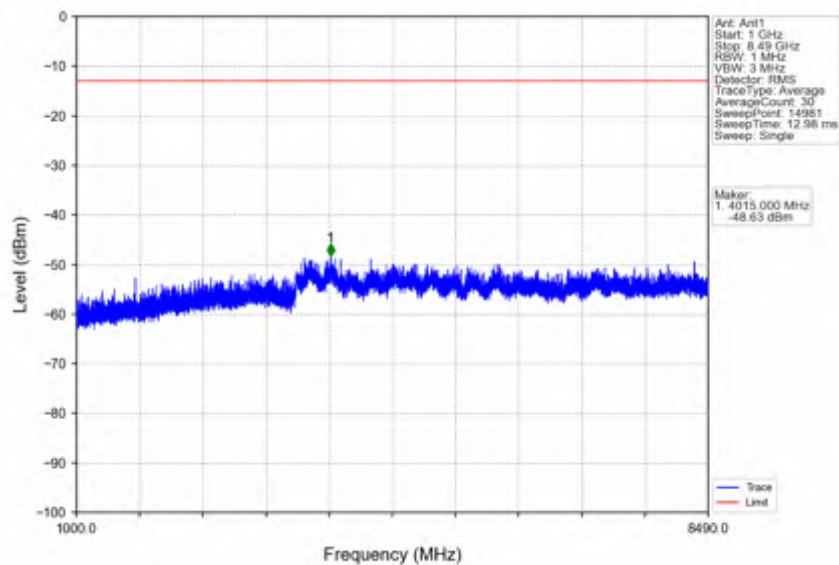
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n5 15kHz SISO NTN_V 10MHz CP-OFDM QPSK 844MHz Edge 1RB Right



n5 15kHz SISO NTV 10MHz CP-OFDM QPSK 844MHz Edge 1RB Right

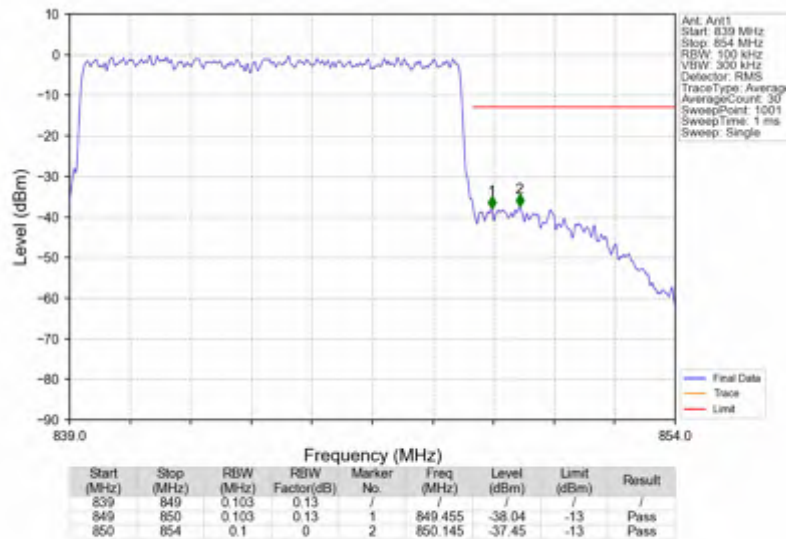


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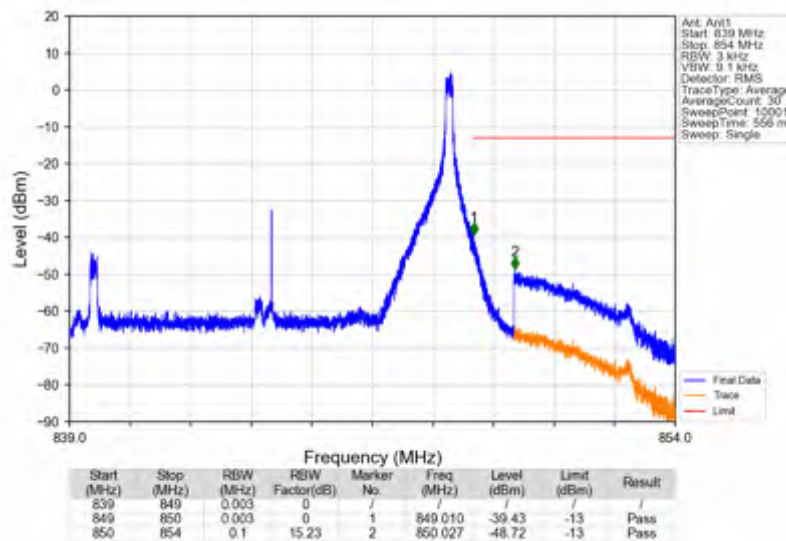
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_844MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_844MHz_Inner_1RB_Right



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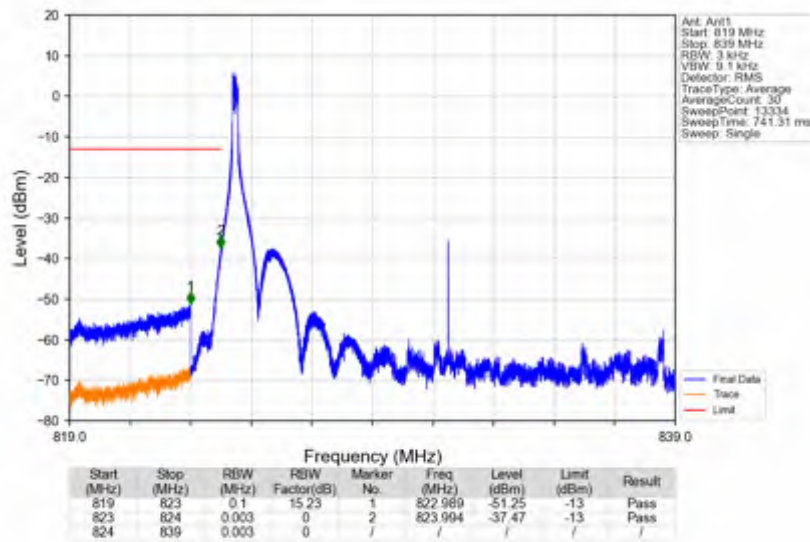
2.3 15k_SISO_15MHz_NTNV

2.3.1 Test Result

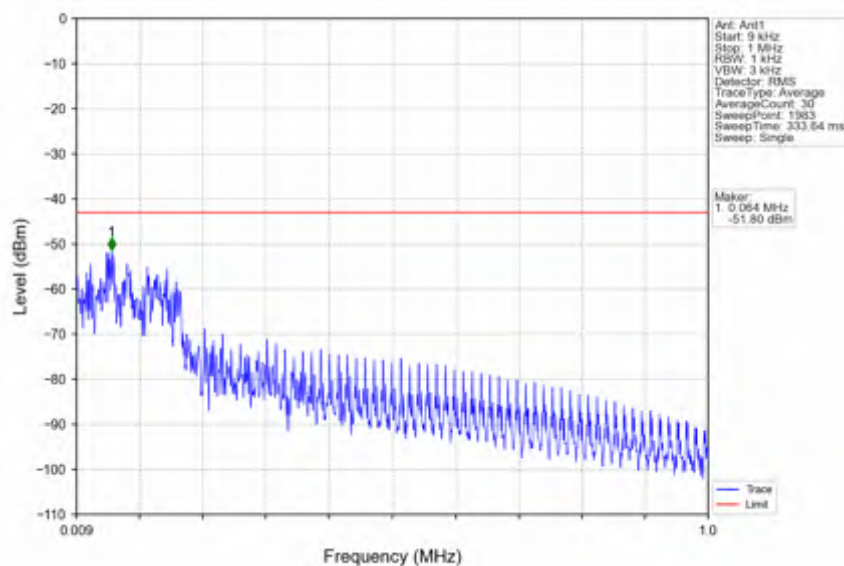
5G NR n5 SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	831.5	Edge 1RB Left	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
		Inner 1RB Left	Refer To Test Graph			Pass
	841.5	Edge 1RB Left	Refer To Test Graph			Pass
		Edge 1RB Right	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	831.5	Inner 1RB Right	Refer To Test Graph			Pass
	836.5	Edge 1RB Left	Refer To Test Graph			Pass
		Edge 1RB Right	Refer To Test Graph			Pass
	841.5	Outer Full	Refer To Test Graph			Pass
		Inner 1RB Right	Refer To Test Graph			Pass
		Inner 1RB Right	Refer To Test Graph			Pass
CP-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
		Edge 1RB Right	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
	841.5	Inner 1RB Right	Refer To Test Graph			Pass
		Inner 1RB Right	Refer To Test Graph			Pass
		Inner 1RB Right	Refer To Test Graph			Pass

2.3.2 Test Graph

n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK 831.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK 831.5MHz_Edge_1RB_Left



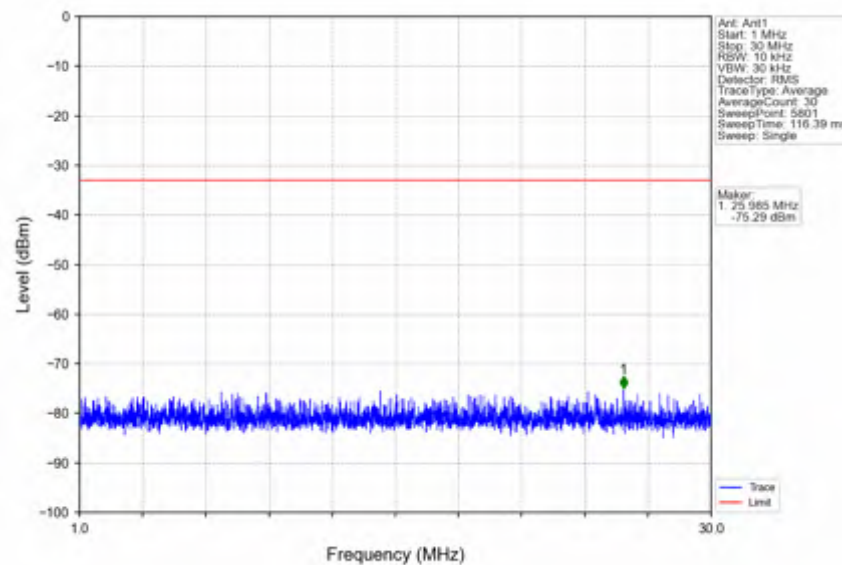
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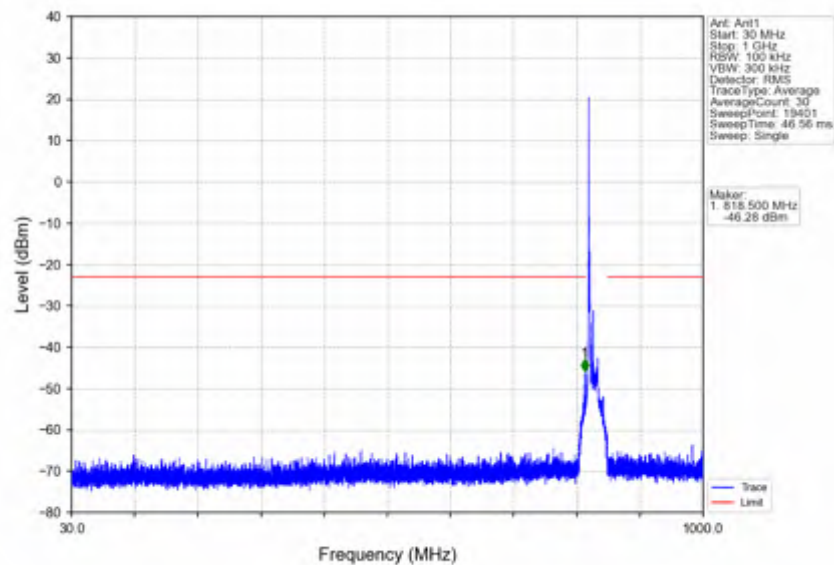
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK 831.5MHz_Edge_1RB_Left



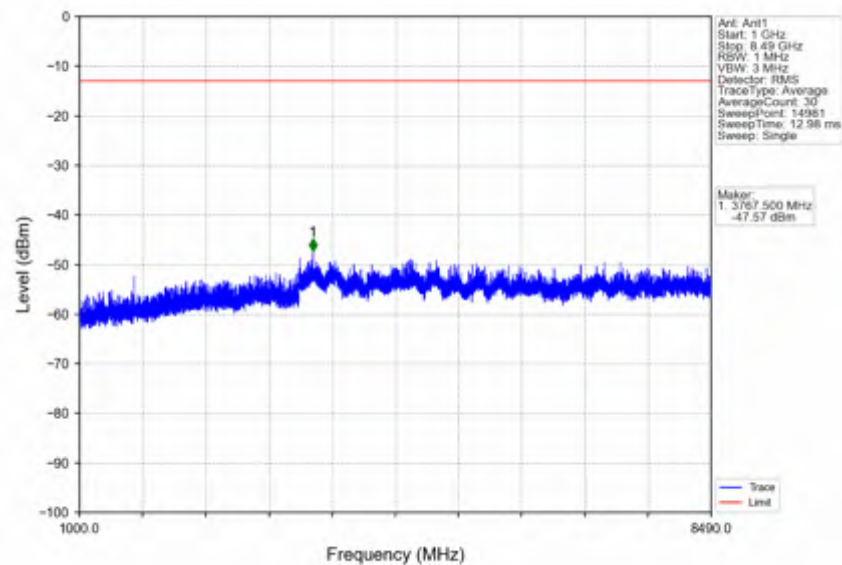
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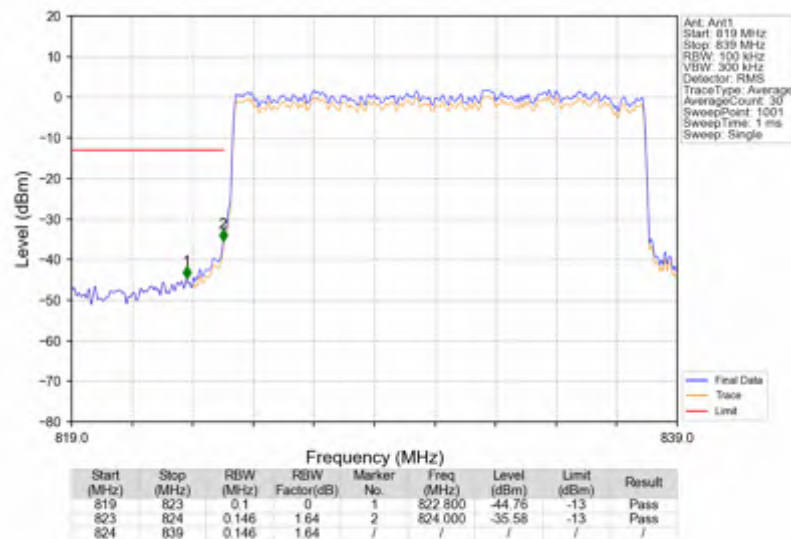
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_831.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_831.5MHz_Outer_Full



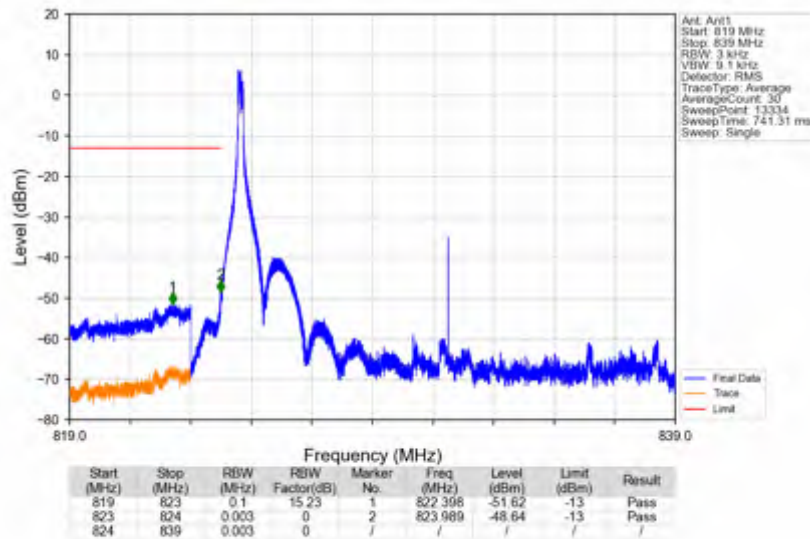
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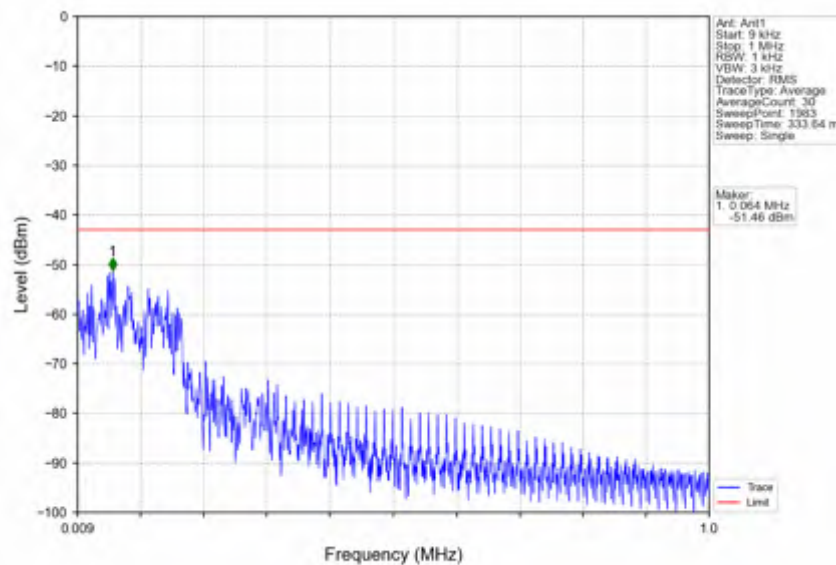
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n5	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	PI/2 BPSK	831.5MHz	Inner	1RB	Left
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_836.5MHz_Edge_1RB_Left

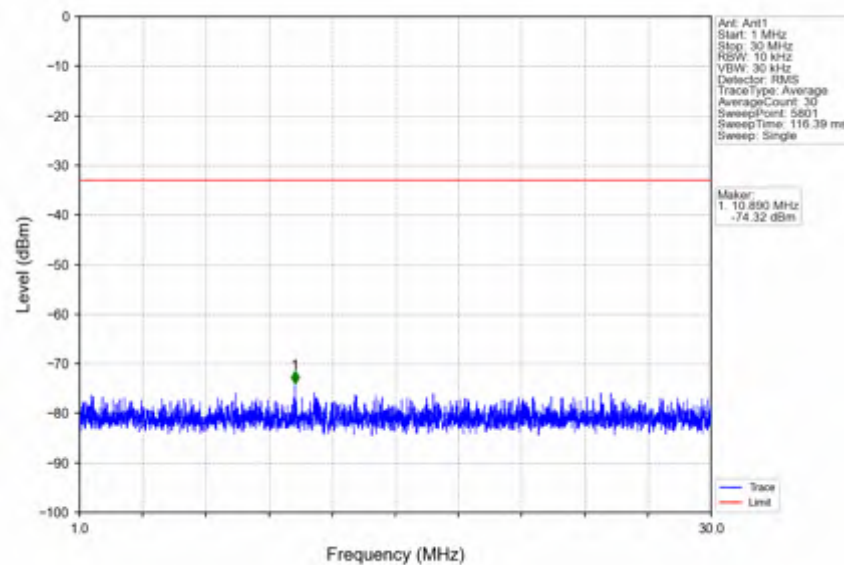


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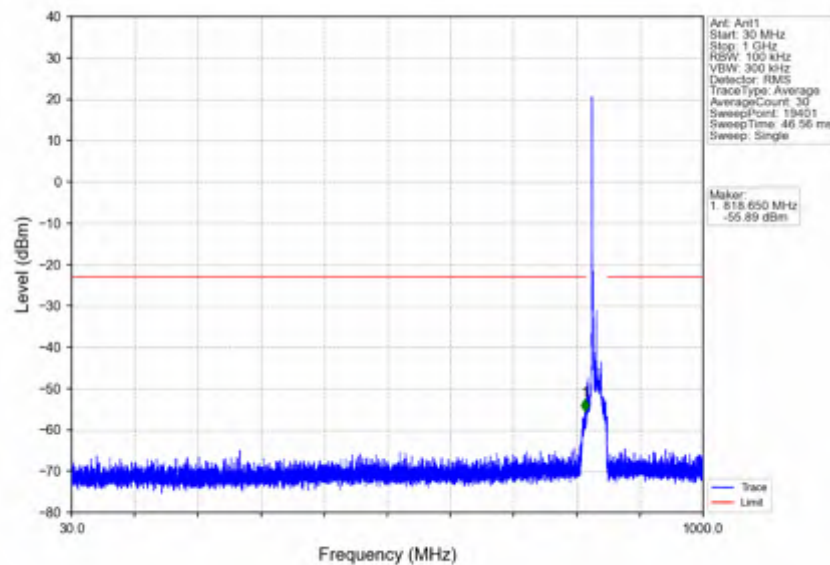
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK 836.5MHz_Edge_1RB_Left



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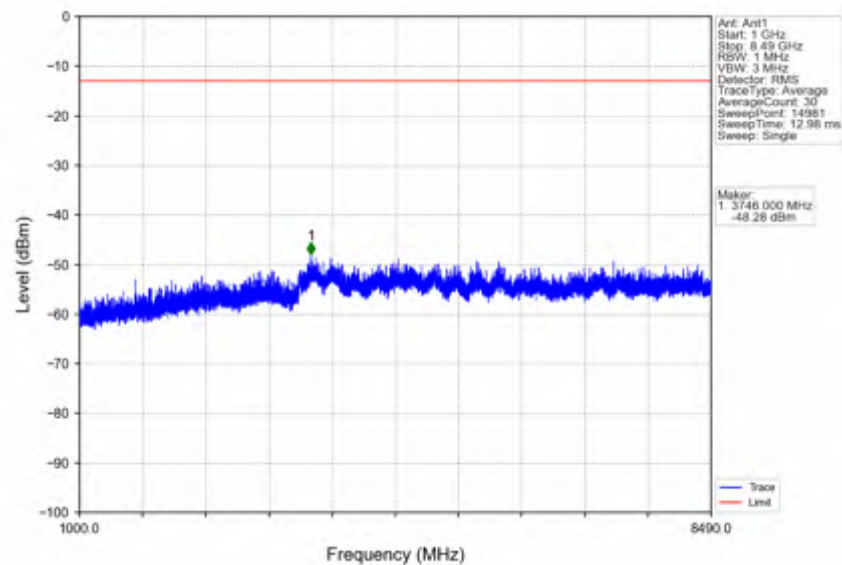
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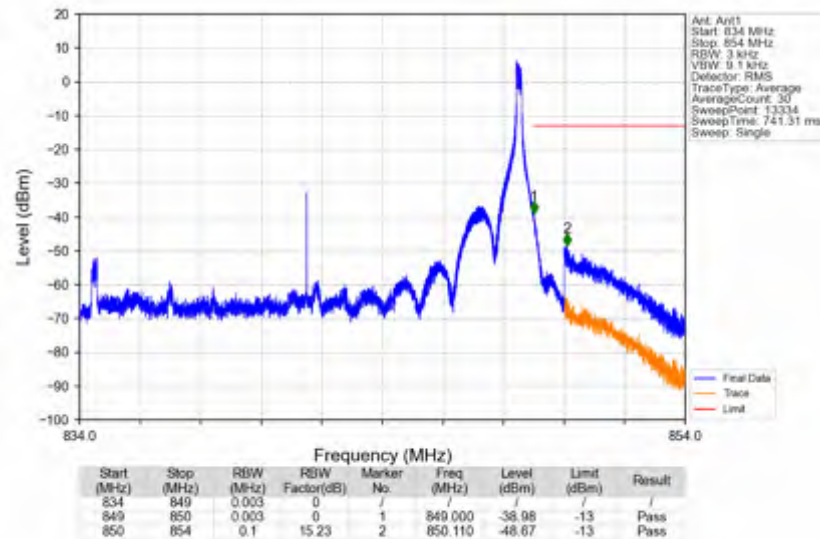
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_836.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_841.5MHz_Edge_1RB_Right



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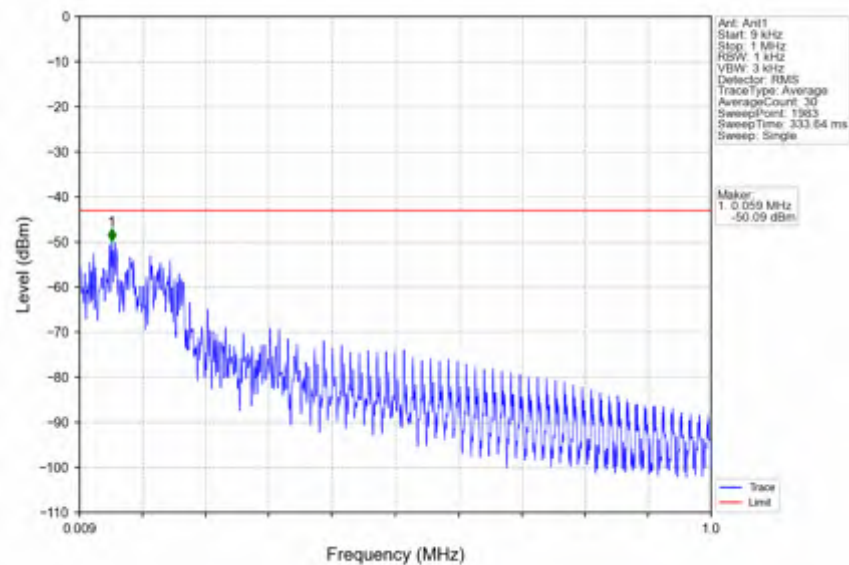
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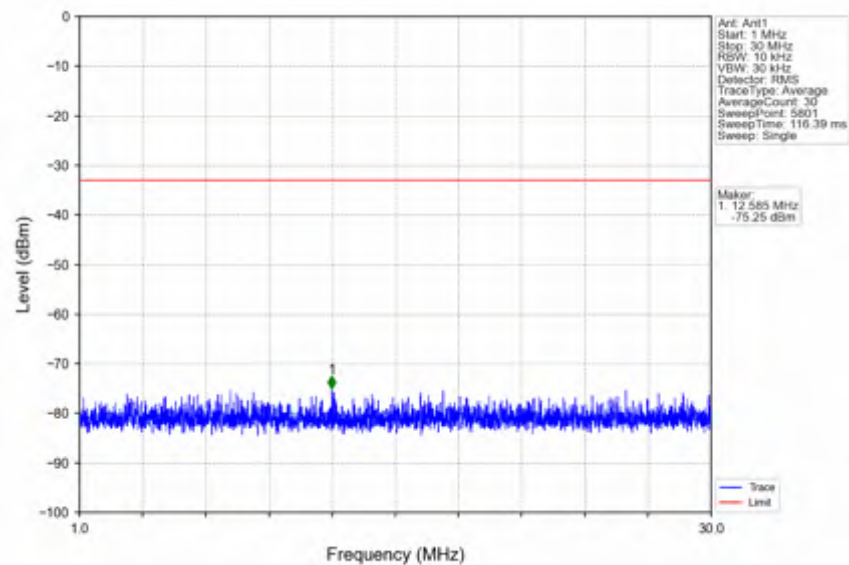
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_841.5MHz_Edge_1RB_Right



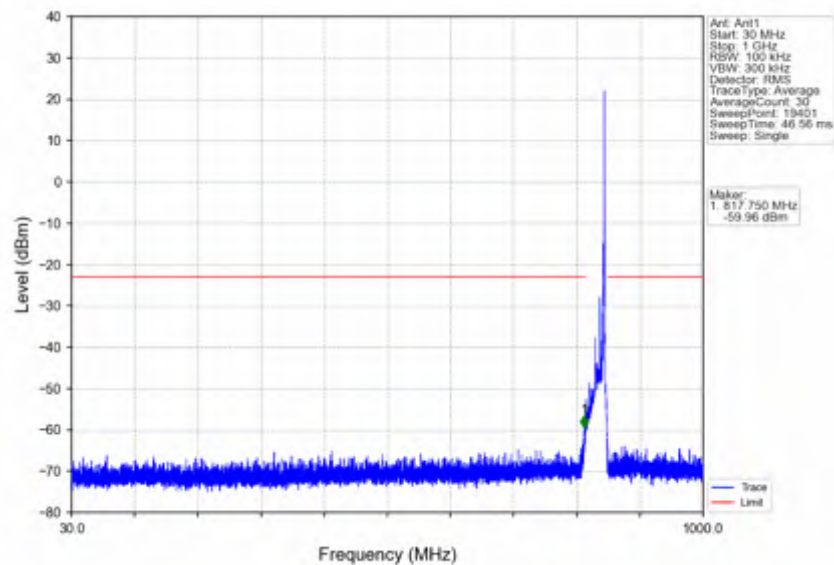
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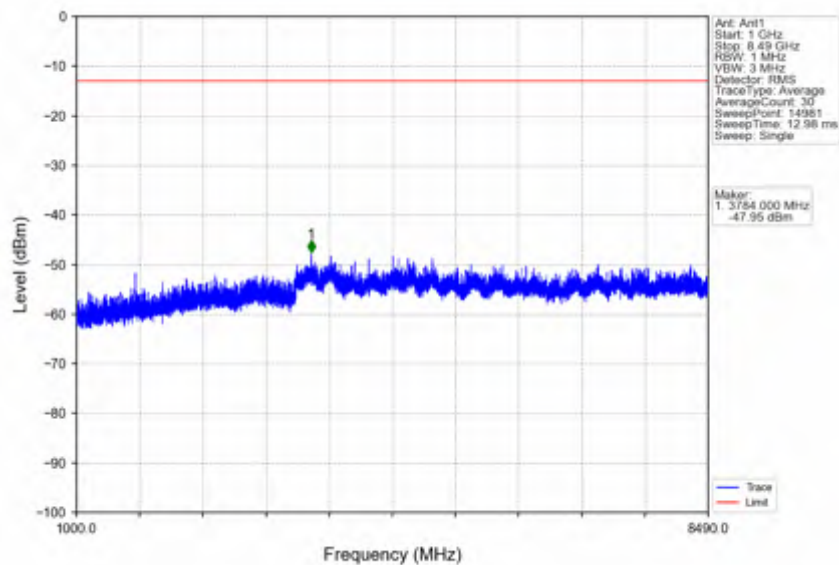
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_841.5MHz_Edge_1RB_Right



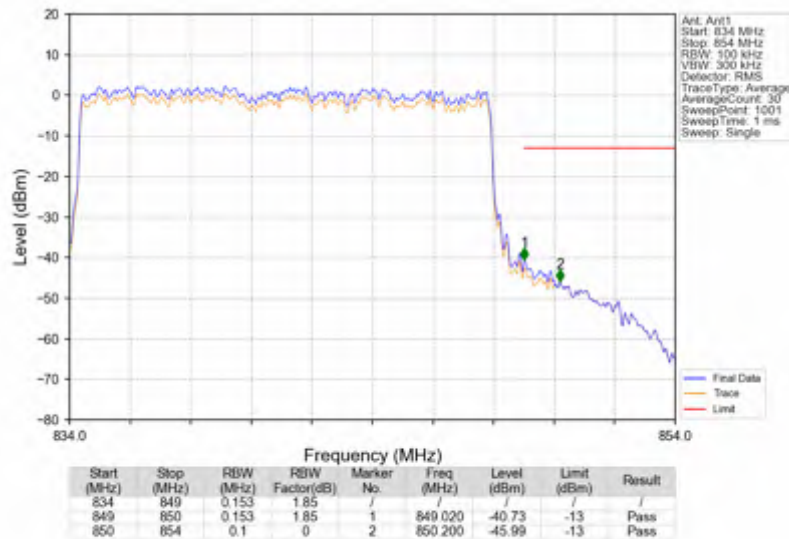
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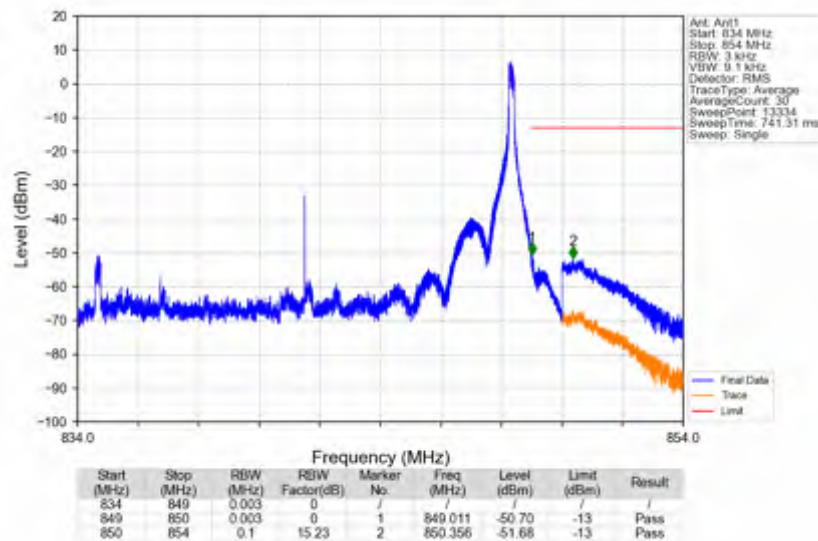
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_841.5MHz_Inner_1RB_Right



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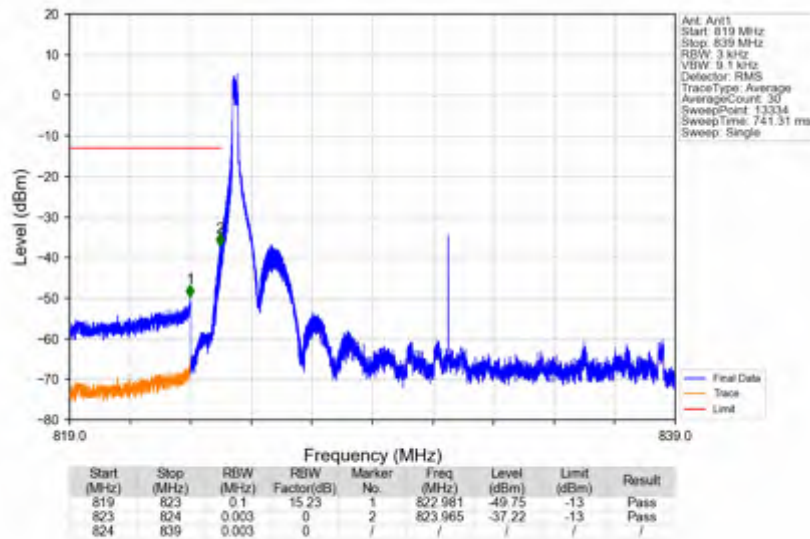
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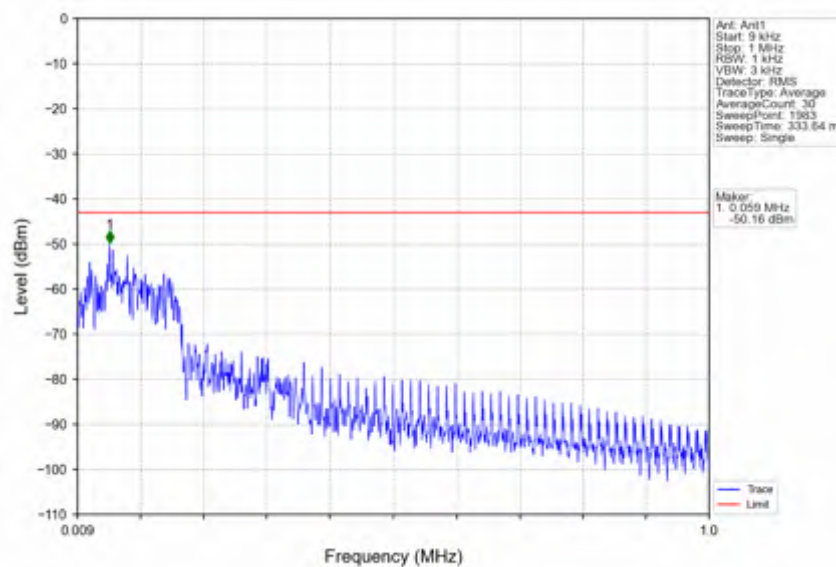
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n5 15kHz SISO NTNv 15MHz DFT-s-OFDM QPSK 831.5MHz Edge 1RB Left



n5 15kHz SISO NTN 15MHz DFT-s-OFDM QPSK 831.5MHz Edge 1RB Left

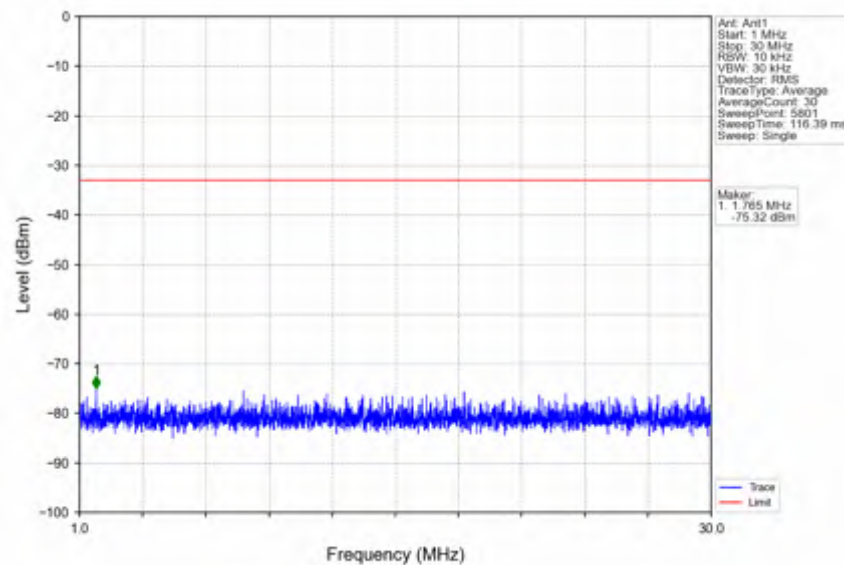


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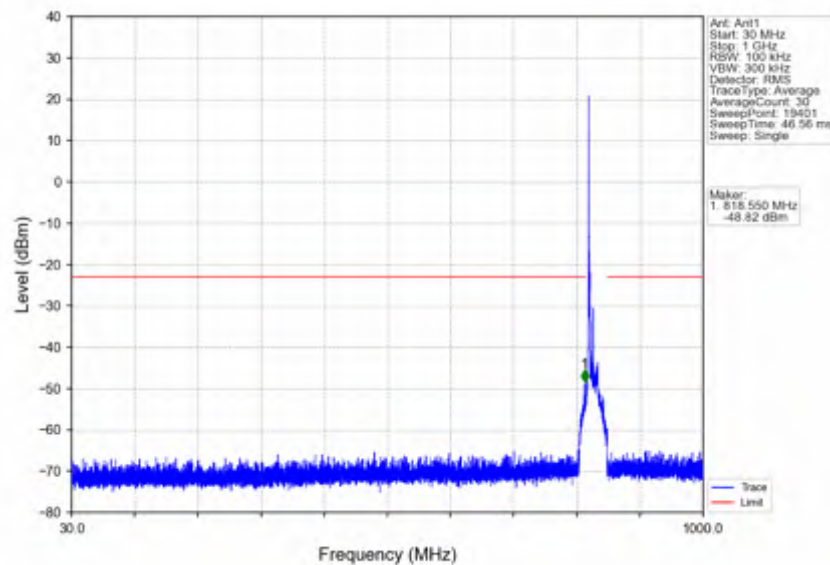
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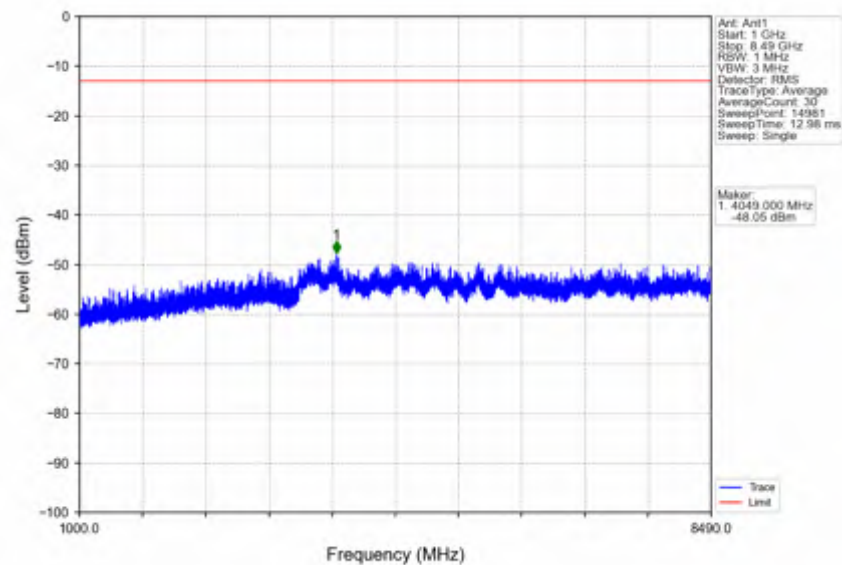
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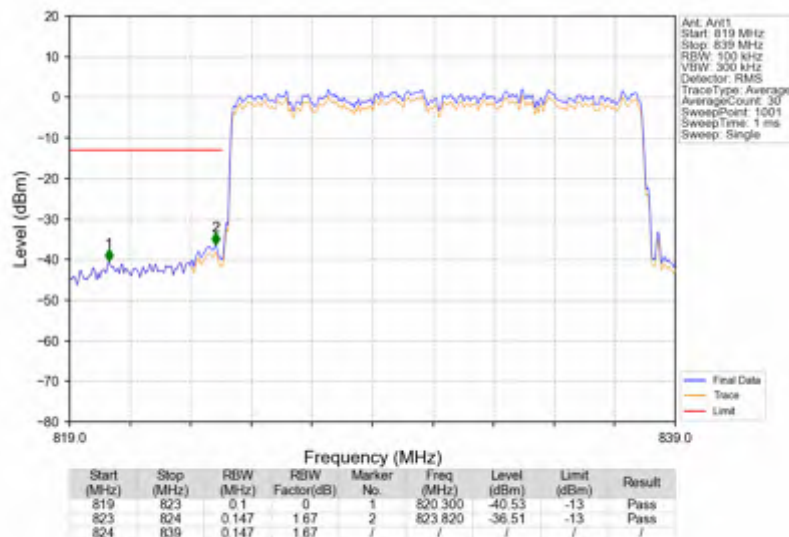
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_831.5MHz_Outer_Full



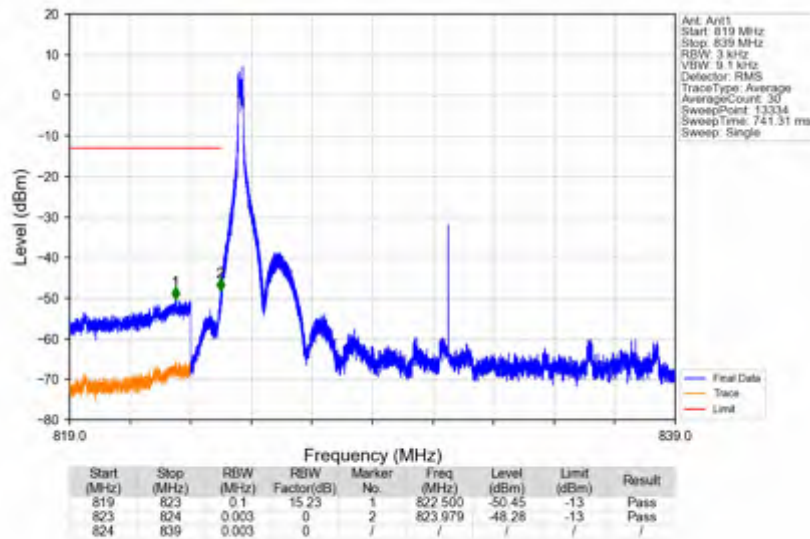
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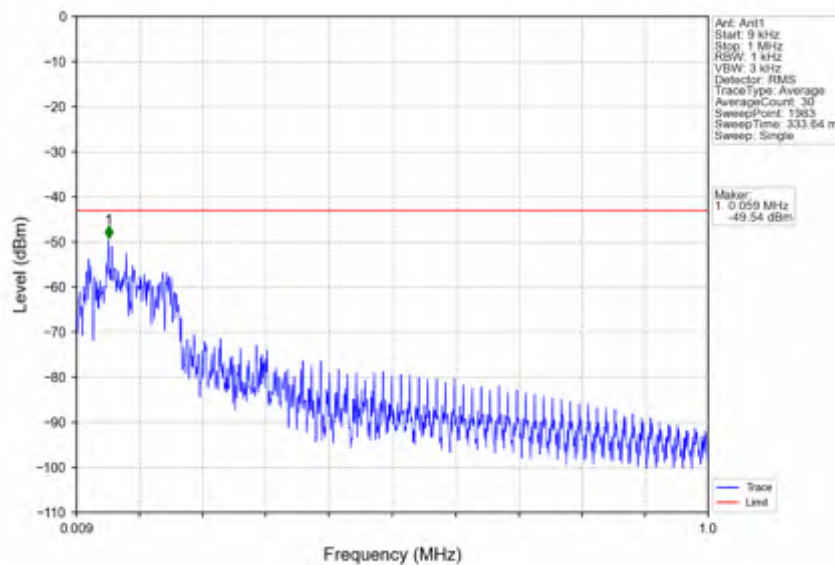
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_831.5MHz_Inner_1RB_Left



n5 15kHz SISO NTN 15MHz DFT-s-OFDM QPSK 836.5MHz Edge 1RB Left

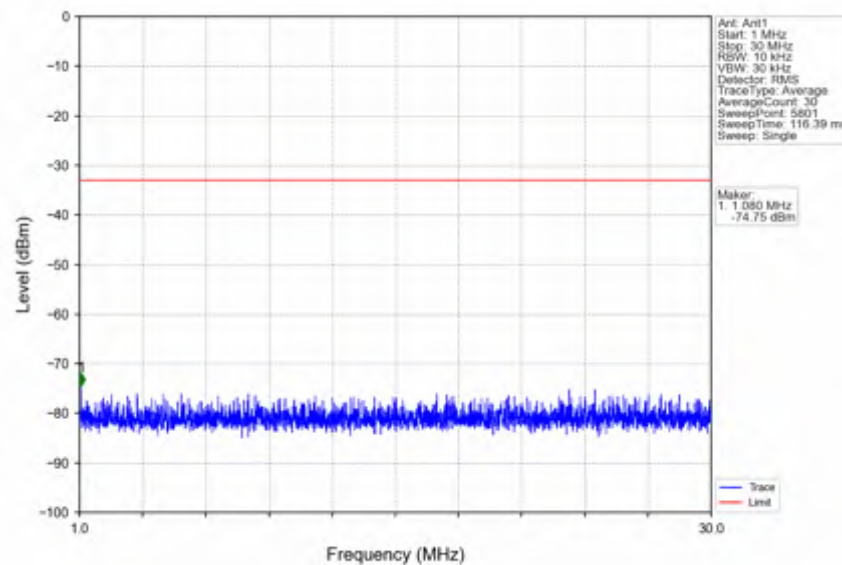


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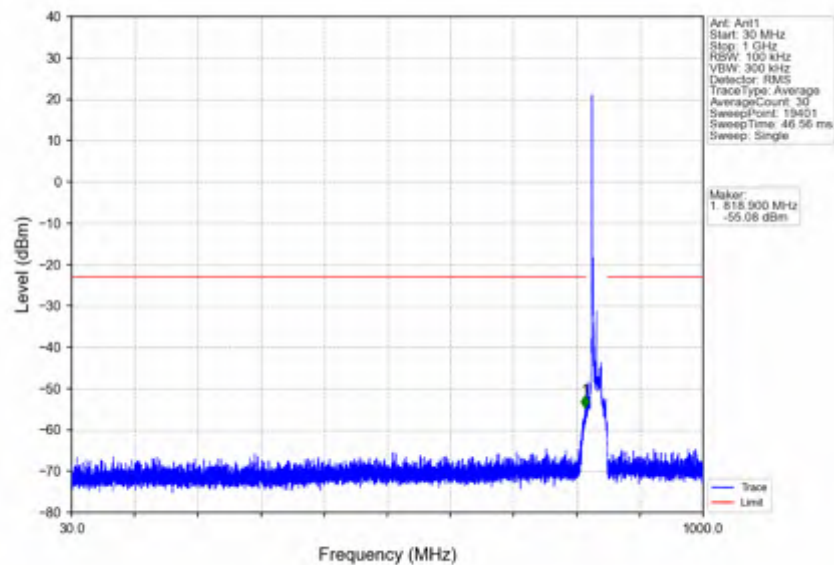
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_836.5MHz_Edge_1RB_Left



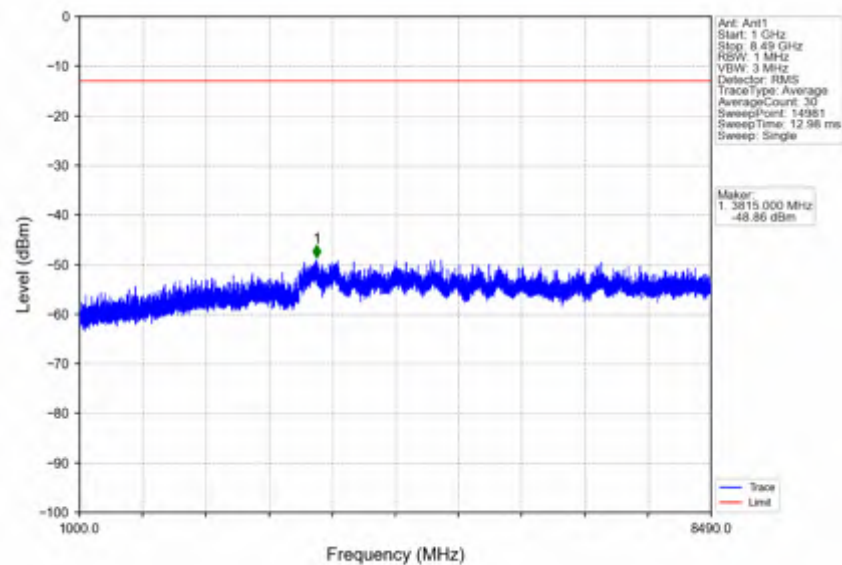
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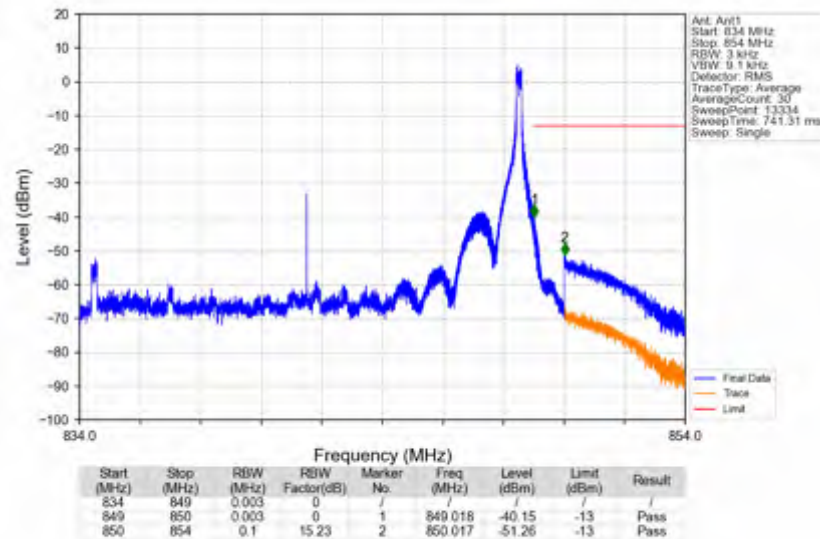
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_836.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_841.5MHz_Edge_1RB_Right



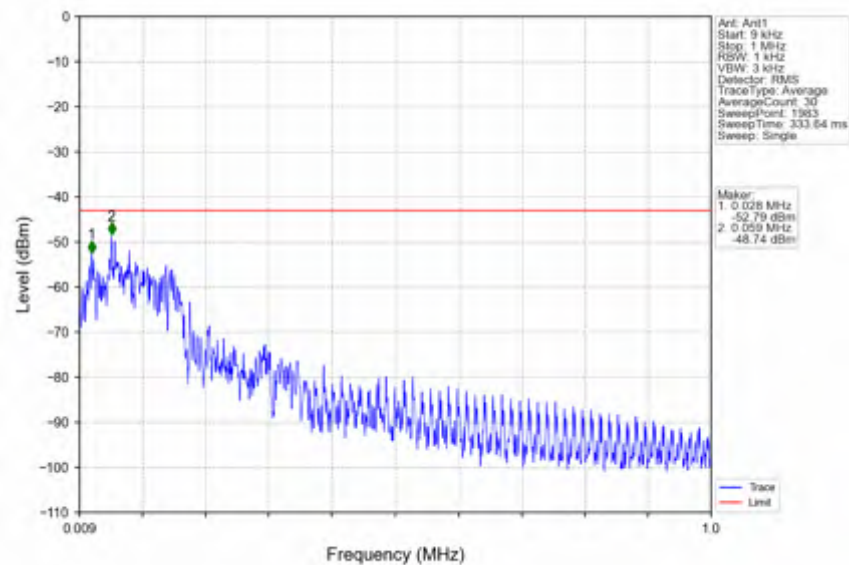
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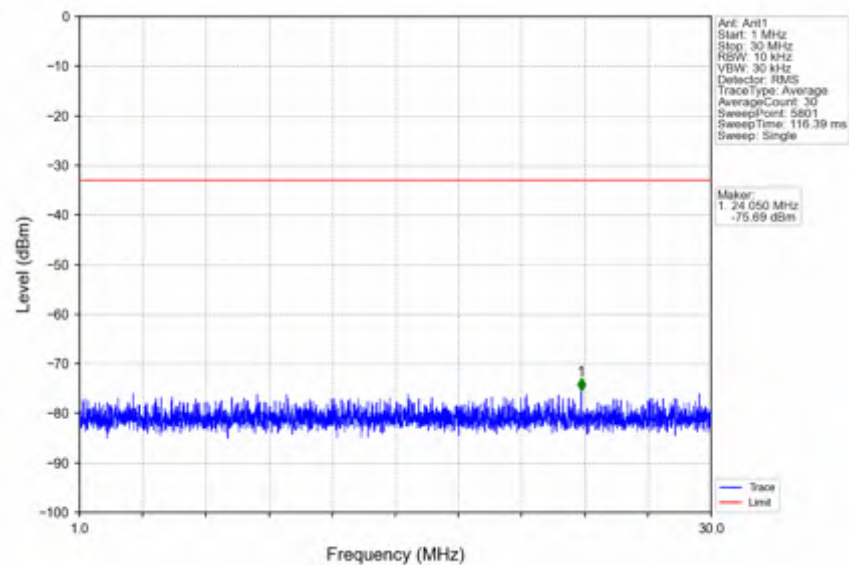
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK 841.5MHz_Edge_1RB_Right



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK 841.5MHz_Edge_1RB_Right



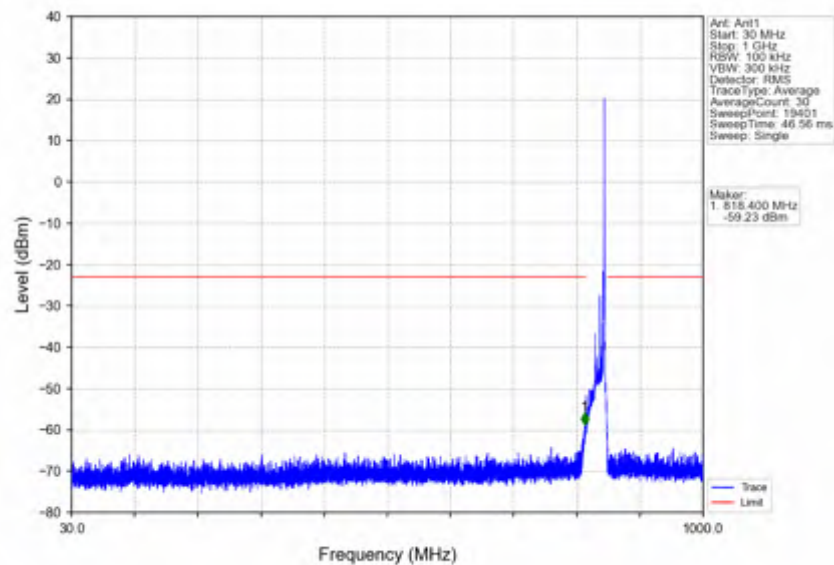
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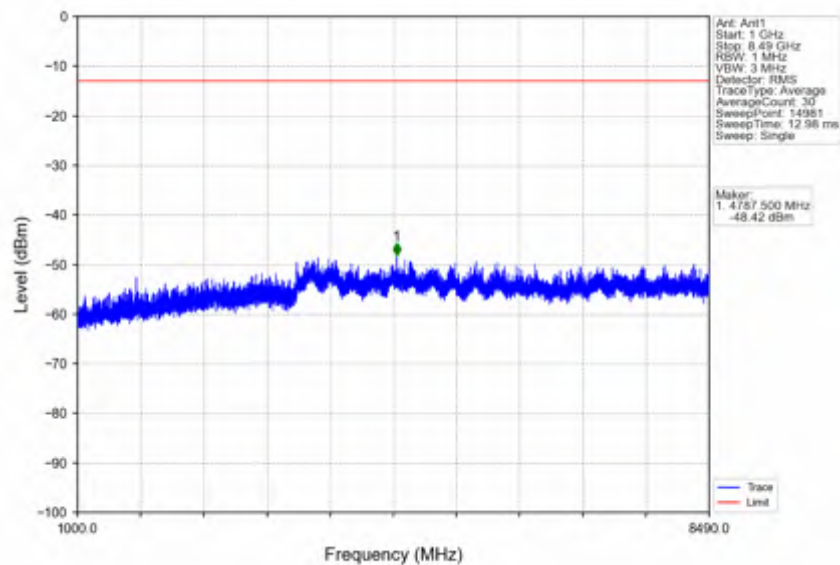
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_841.5MHz_Edge_1RB_Right



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_841.5MHz_Edge_1RB_Right

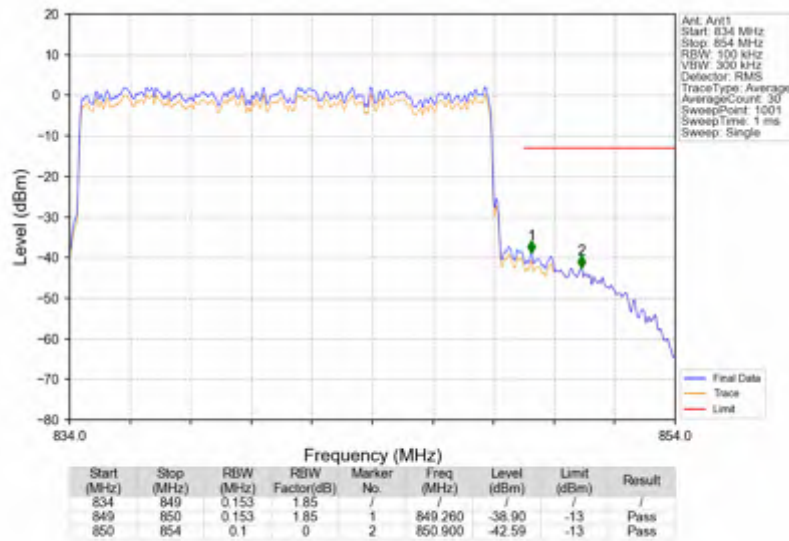


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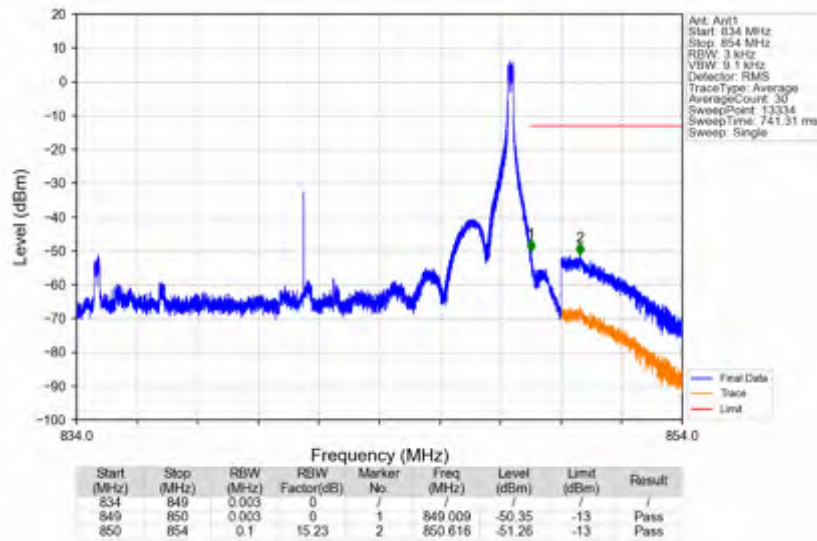
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_841.5MHz_Inner_1RB_Right



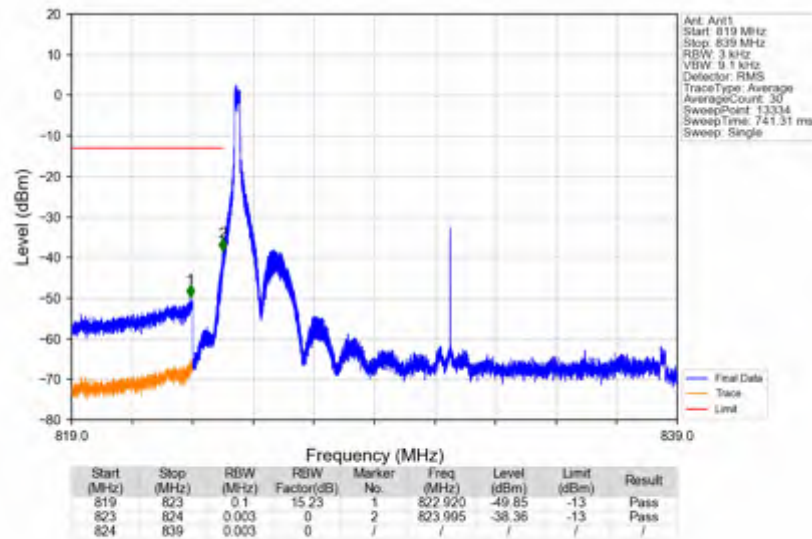
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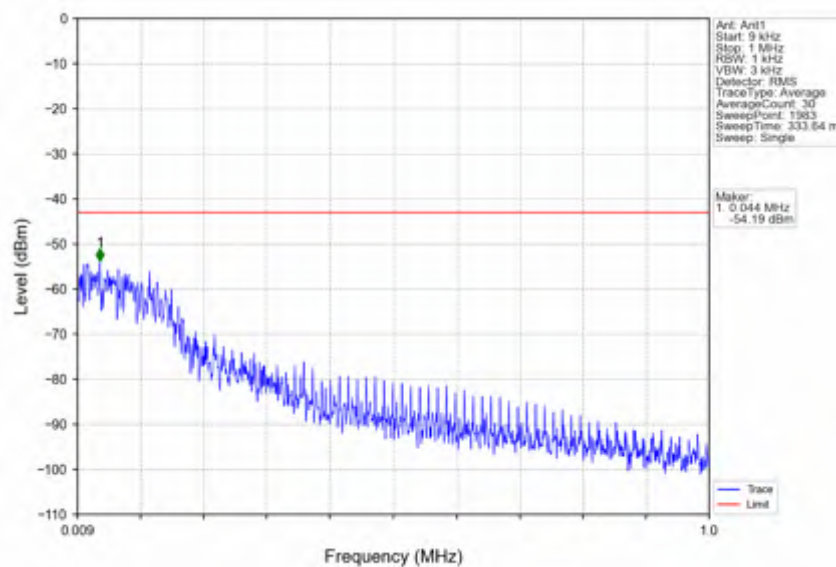
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_831.5MHz_Edge_1RB_Left



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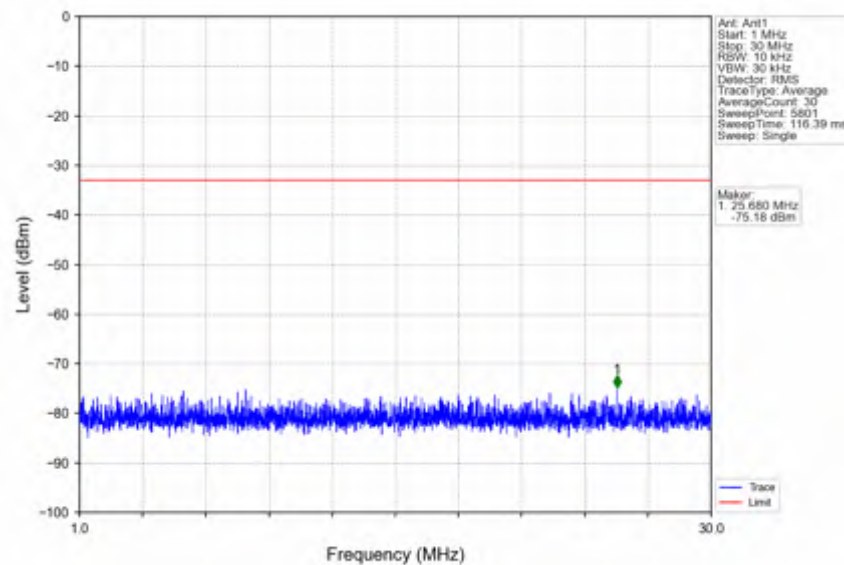
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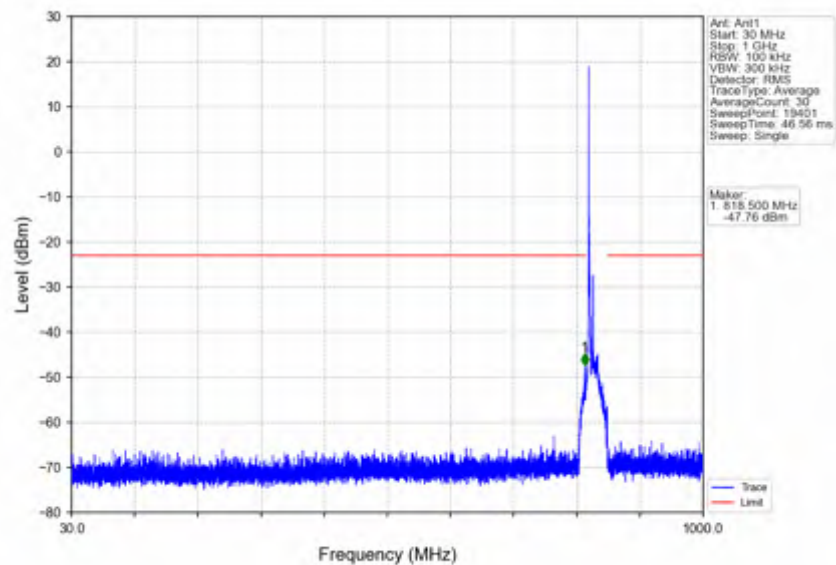
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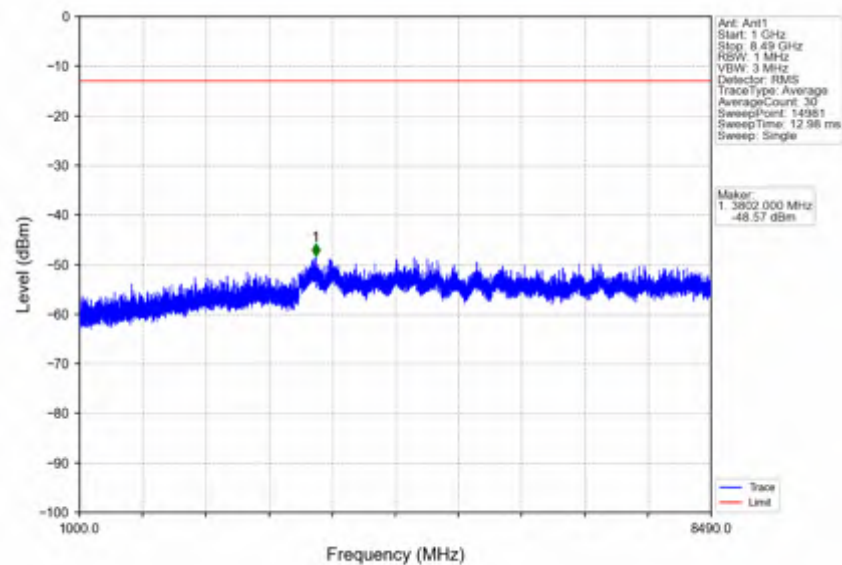
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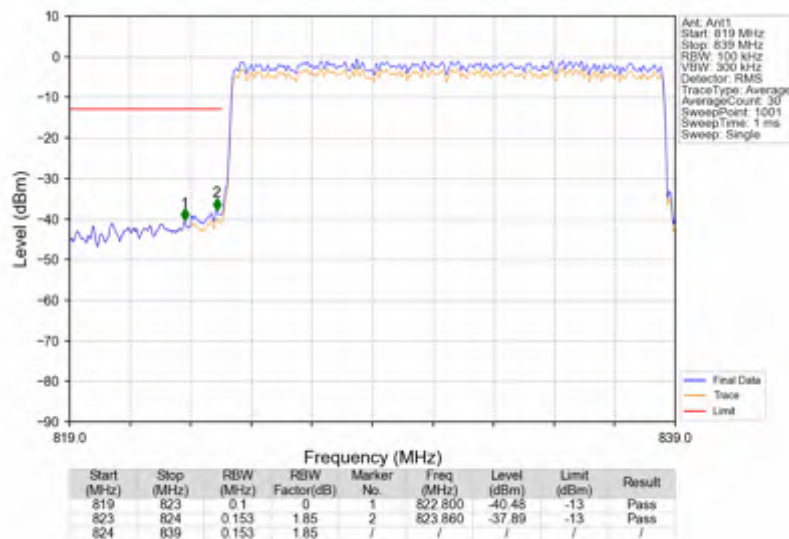
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_831.5MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_831.5MHz_Outer_Full



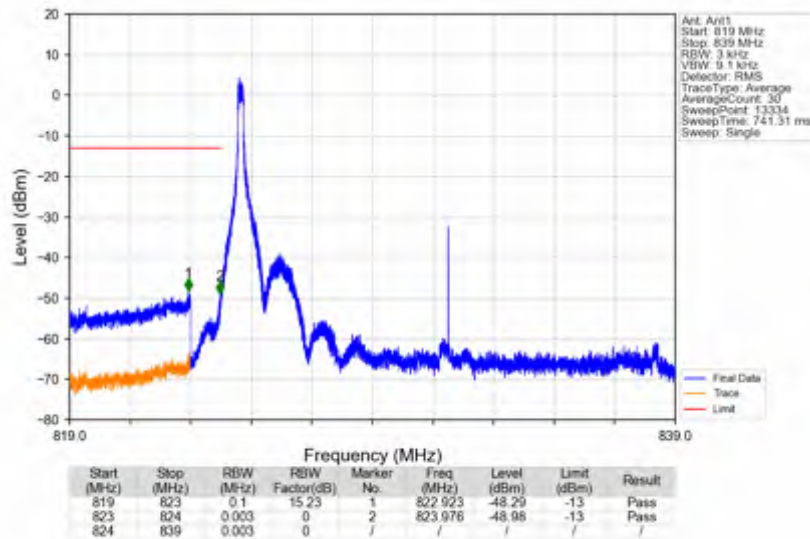
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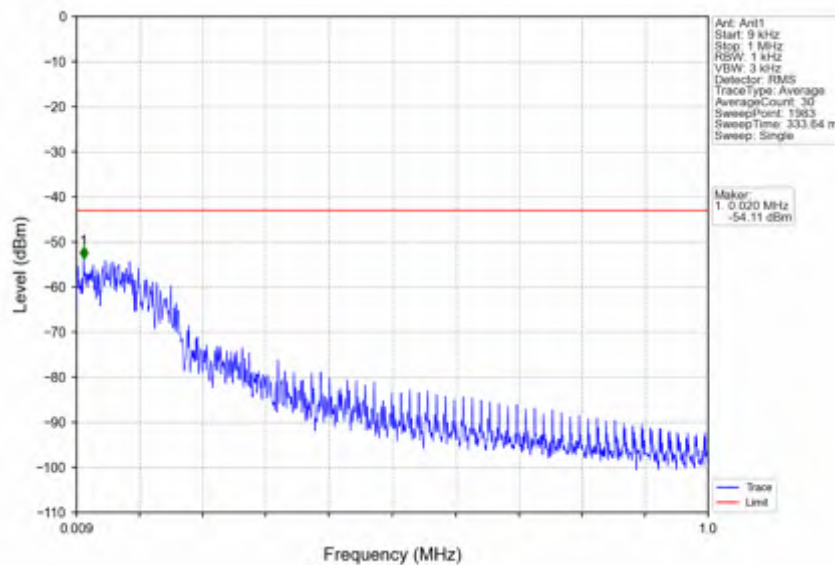
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n5_15kHz_SISO_NTV_15MHz_CP-OFDM_QPSK_831.5MHz_Inner_1RB_Left



n5_15kHz_SISO_NTV_15MHz_CP-OFDM_QPSK_836.5MHz_Edge_1RB_Left



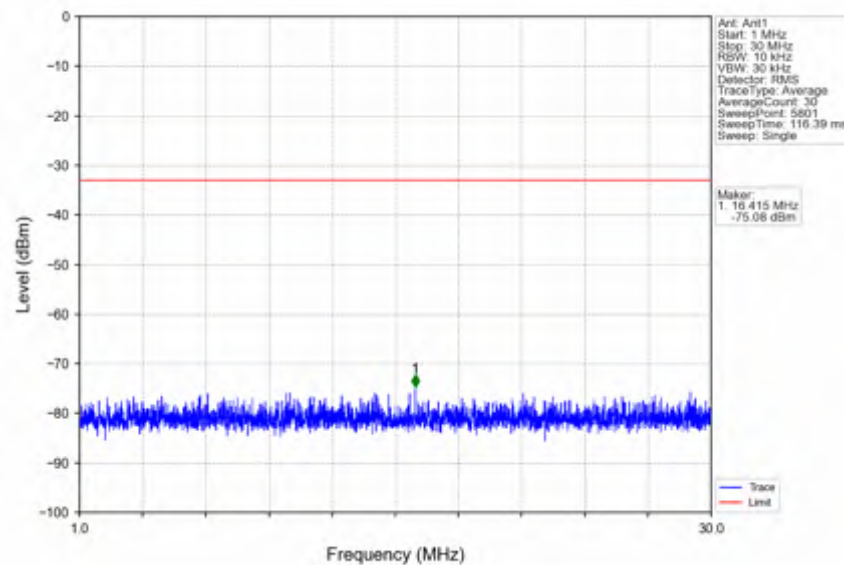
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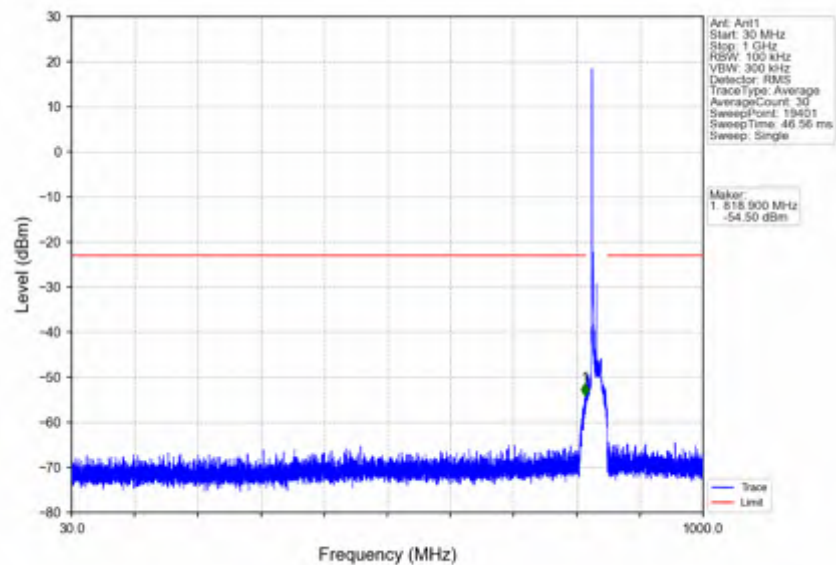
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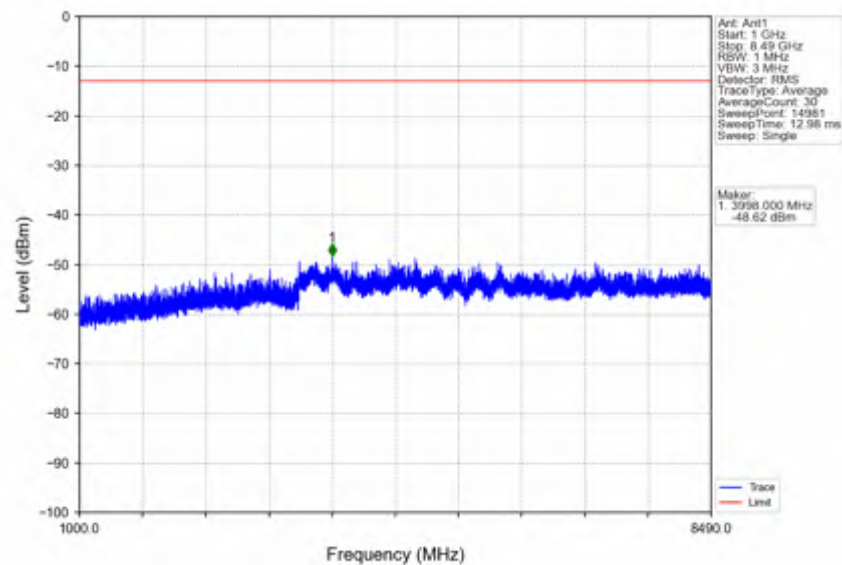
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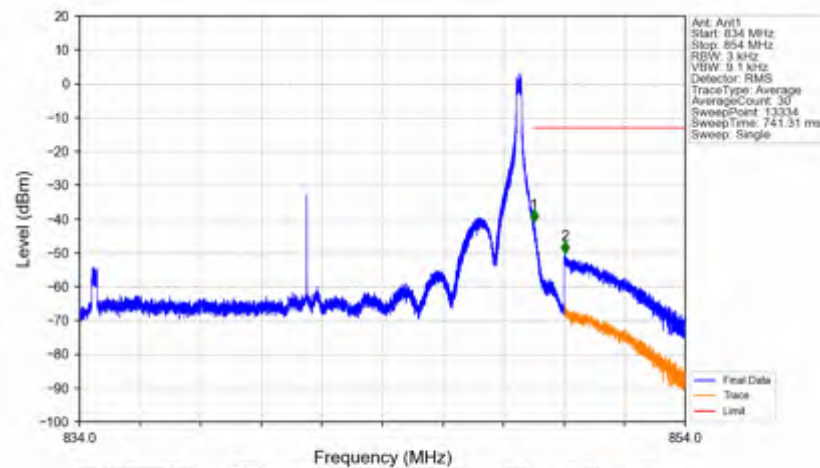
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n5 15kHz SISO NTV 15MHz CP-OFDM QPSK 836.5MHz Edge 1RB Left



n5 15kHz SISO NTN 15MHz CP-OFDM QPSK 841.5MHz Edge 1RB Right



Start (MHz)	Stop (MHz)	RW (MHz)	RW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
834	849	0.003	0					
849	850	0.003	0	1	849.003	-40.98	-13	Pass
850	854	0.1	15.23	2	850.029	50.28	-13	Pass

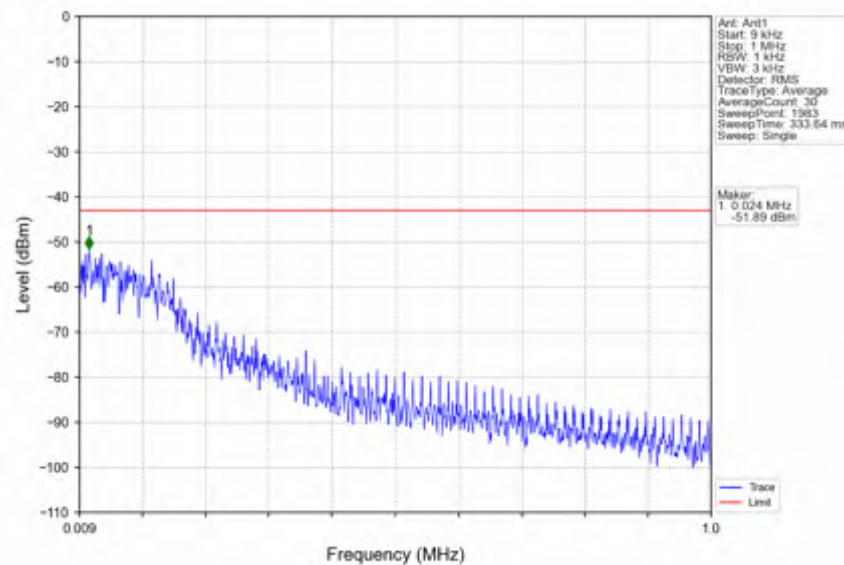


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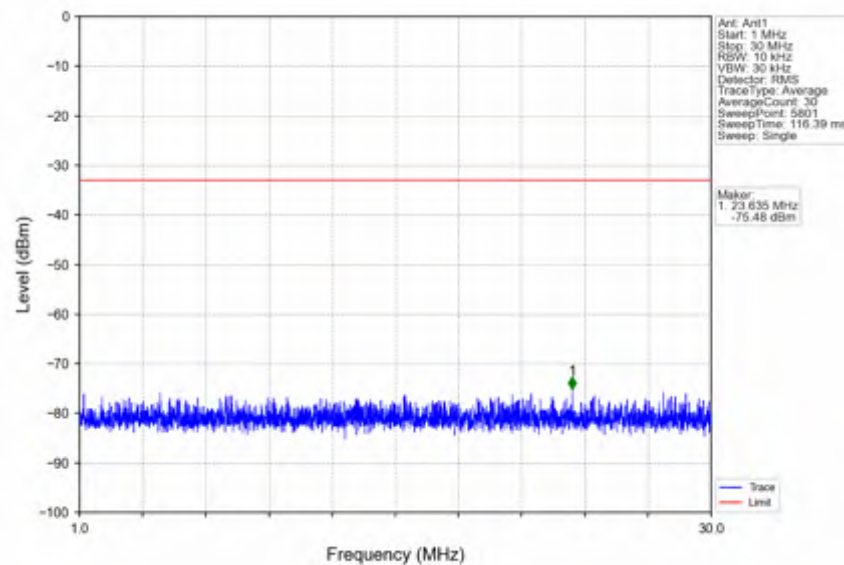
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_841.5MHz_Edge_1RB_Right



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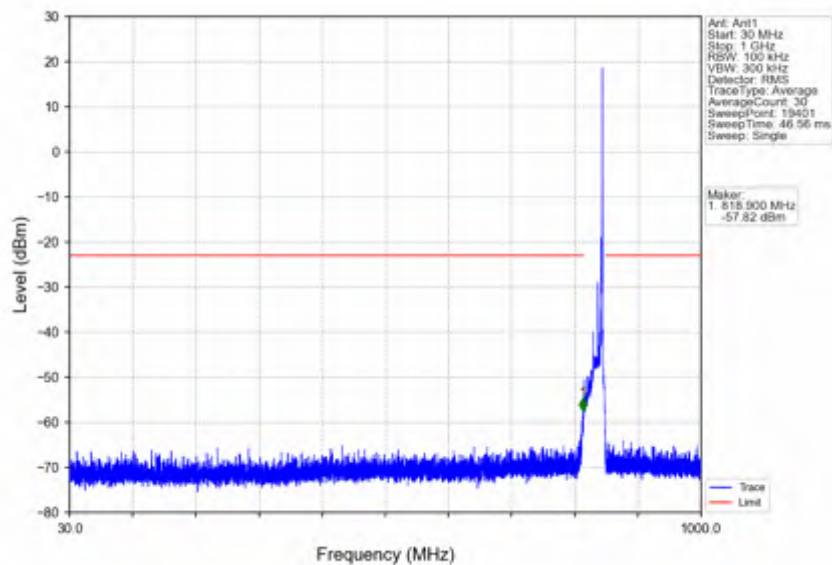
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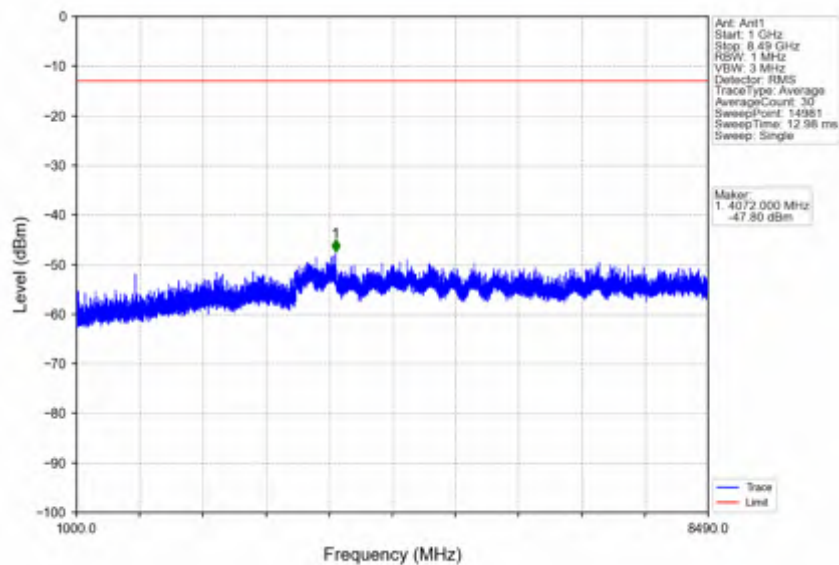
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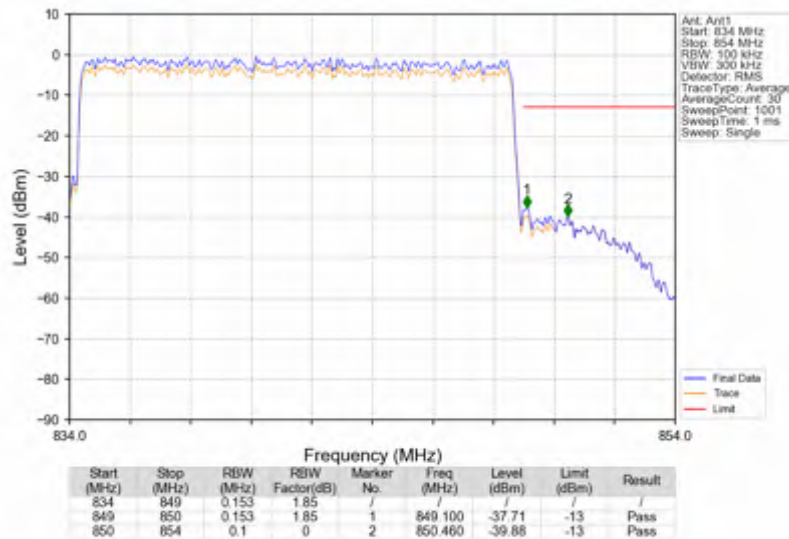


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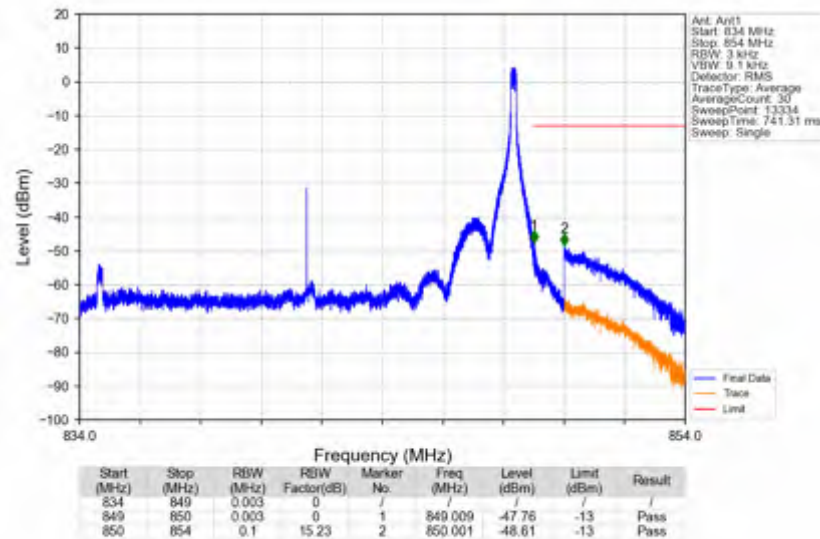
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_841.5MHz_Inner_1RB_Right



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2.4 15k_SISO_20MHz_NTNV

2.4.1 Test Result

5G NR n5 SCS=15kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
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
		Edge 1RB Right	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	834	Inner 1RB Right	Refer To Test Graph			Pass
		Edge 1RB Left	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
	836.5	Inner 1RB Left	Refer To Test Graph			Pass
		Edge 1RB Left	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
CP-OFDM QPSK	839	Edge 1RB Right	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
		Inner 1RB Right	Refer To Test Graph			Pass
	834	Edge 1RB Left	Refer To Test Graph			Pass
		Outer Full	Refer To Test Graph			Pass
		Inner 1RB Left	Refer To Test Graph			Pass
CP-OFDM QPSK	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
	839	Outer Full	Refer To Test Graph			Pass
		Inner 1RB Right	Refer To Test Graph			Pass
		Inner 1RB Right	Refer To Test Graph			Pass



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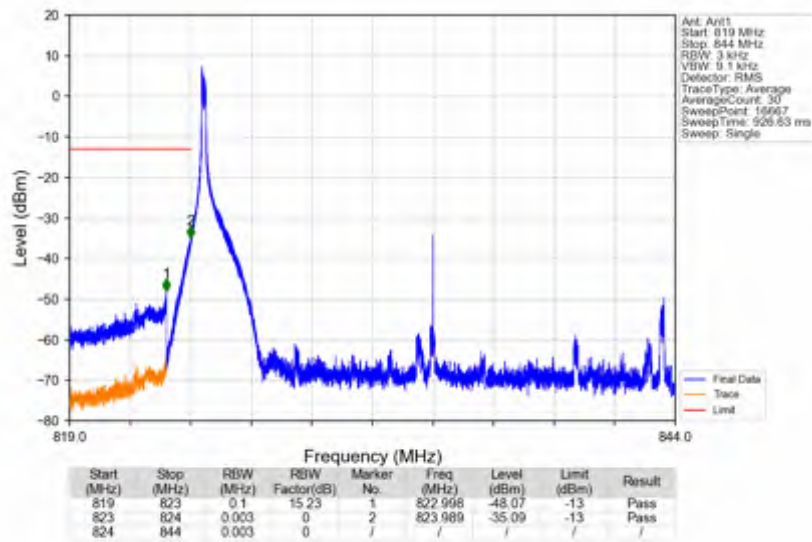
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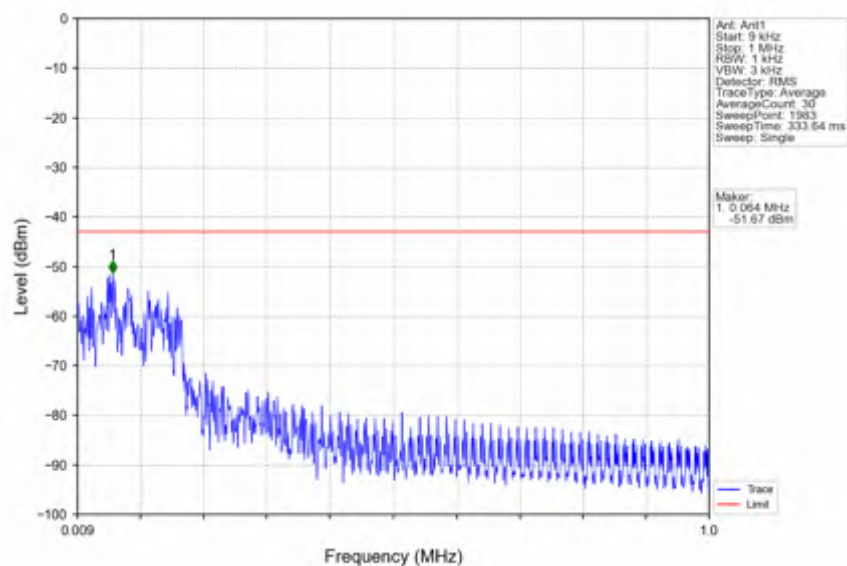
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2.4.2 Test Graph

n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_834MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_834MHz_Edge_1RB_Left



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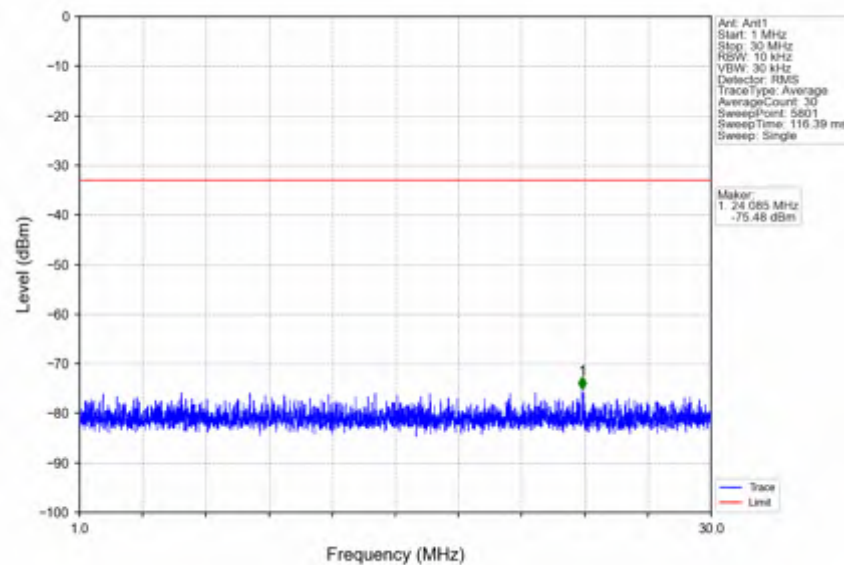
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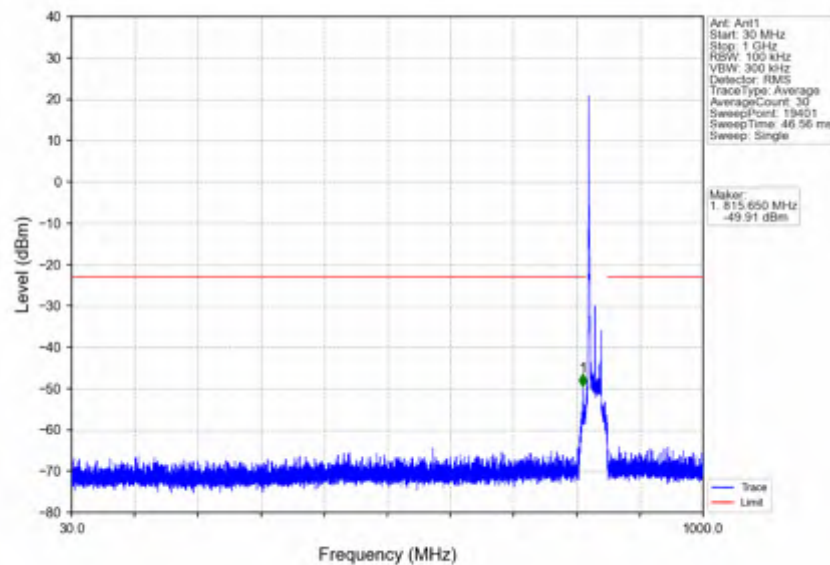
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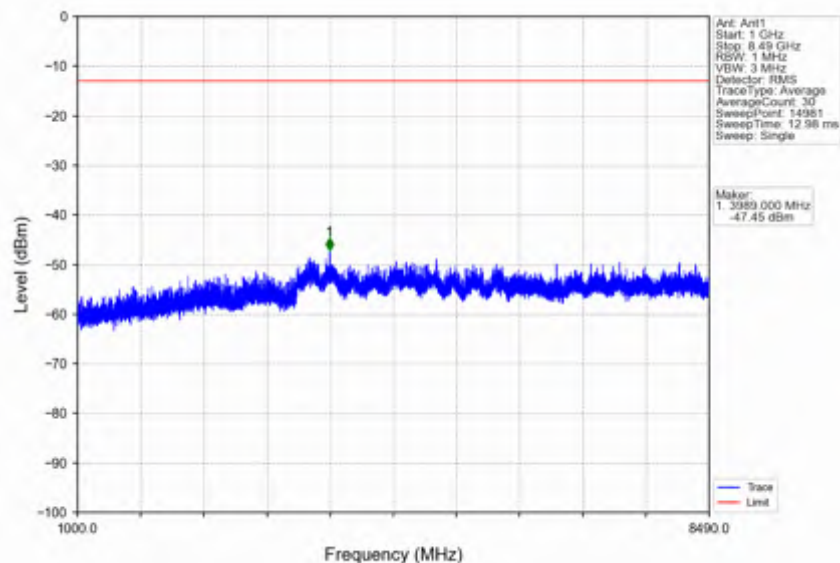
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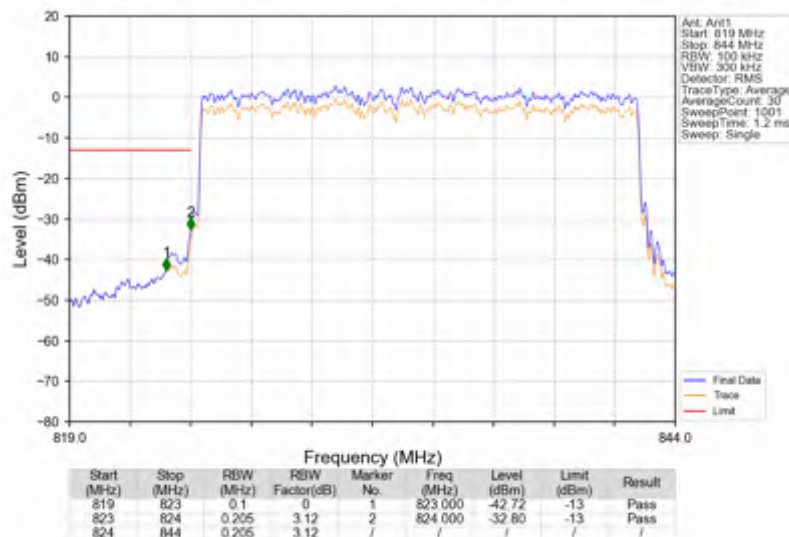
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_834MHz_Outer_Full



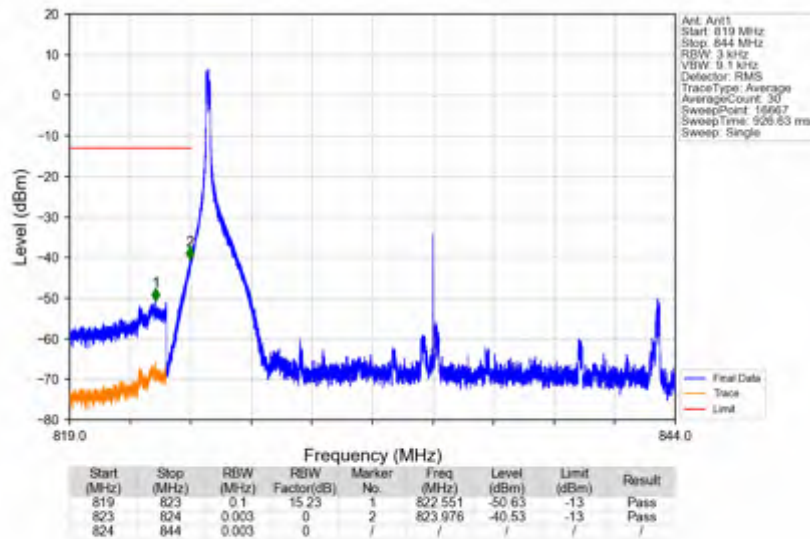
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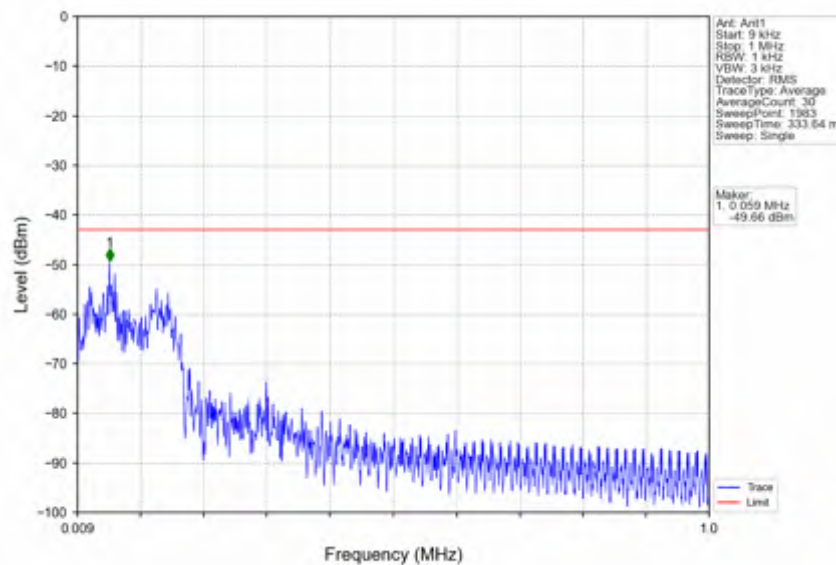
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_836.5MHz_Edge_1RB_Left

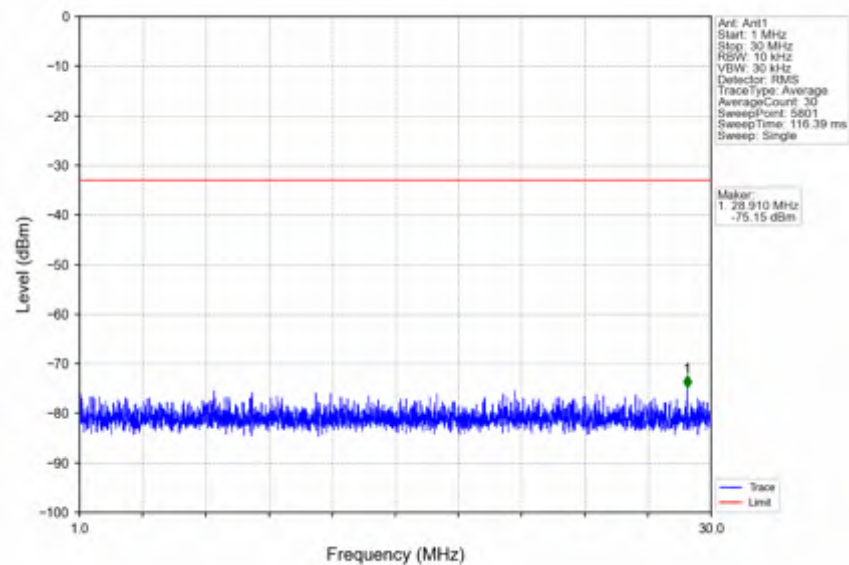


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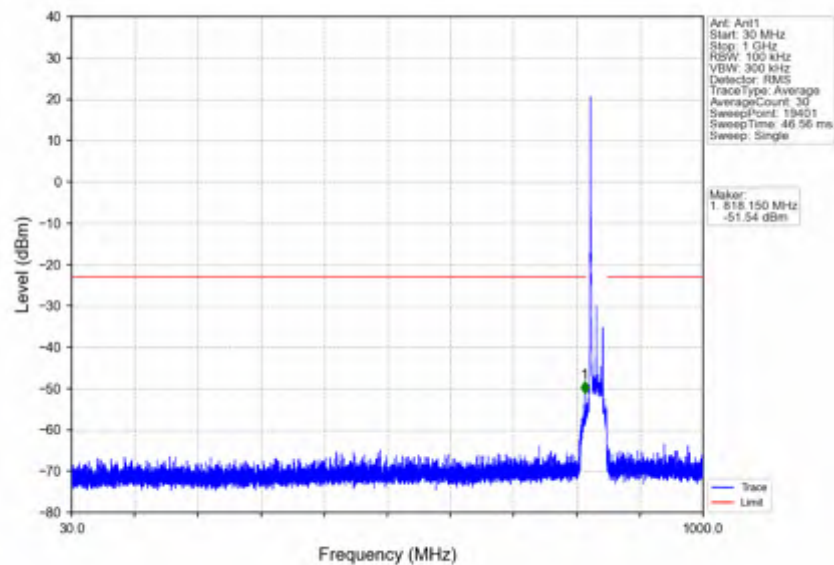
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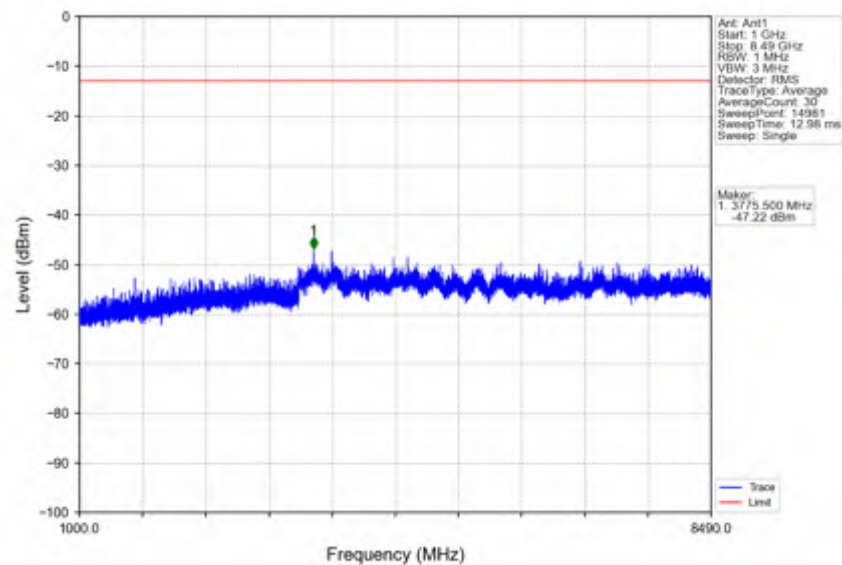
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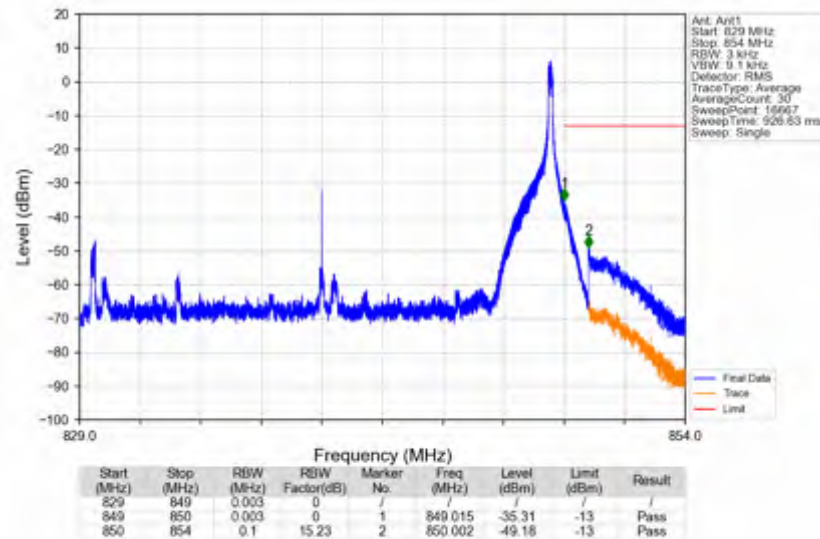
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK 839MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
829	849	0.003	0	1	849.015	-35.31	-13	Pass
849	850	0.003	0	1	849.015	-35.31	-13	Pass
850	854	0.1	15.23	2	850.002	-49.16	-13	Pass



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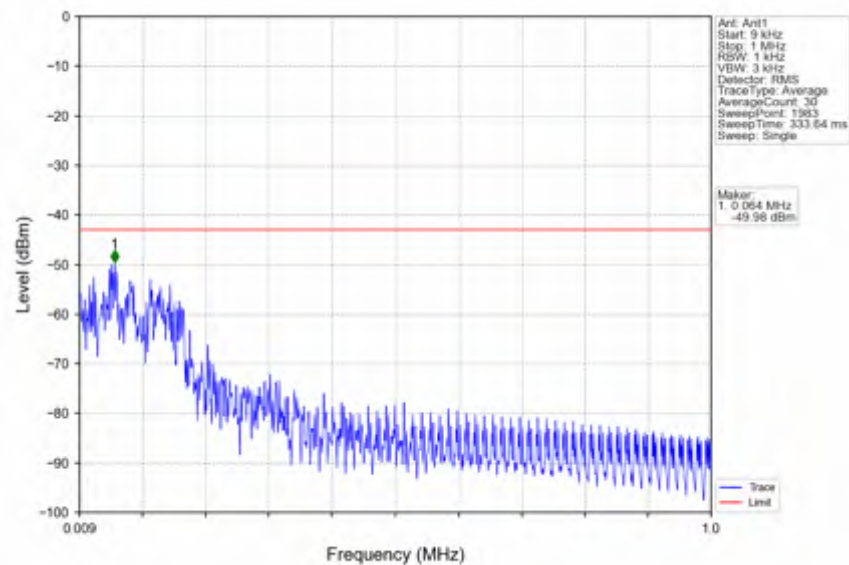
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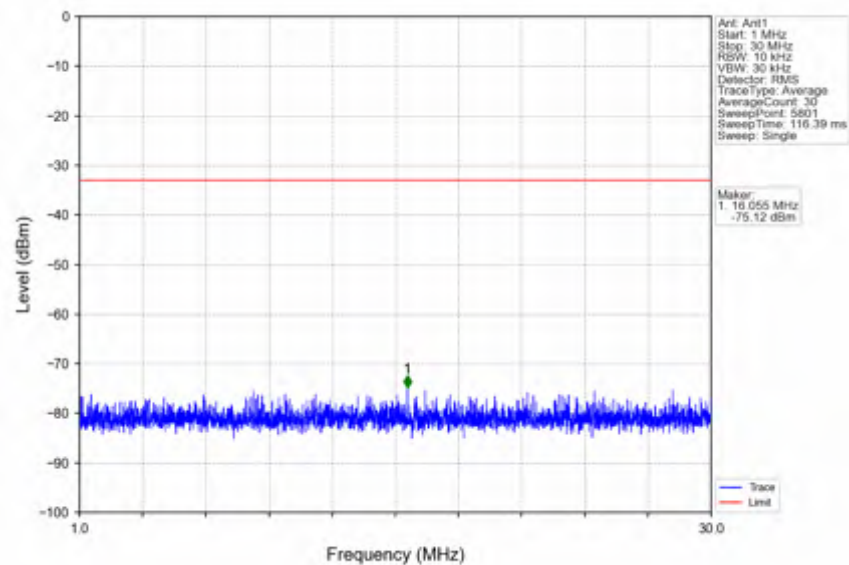
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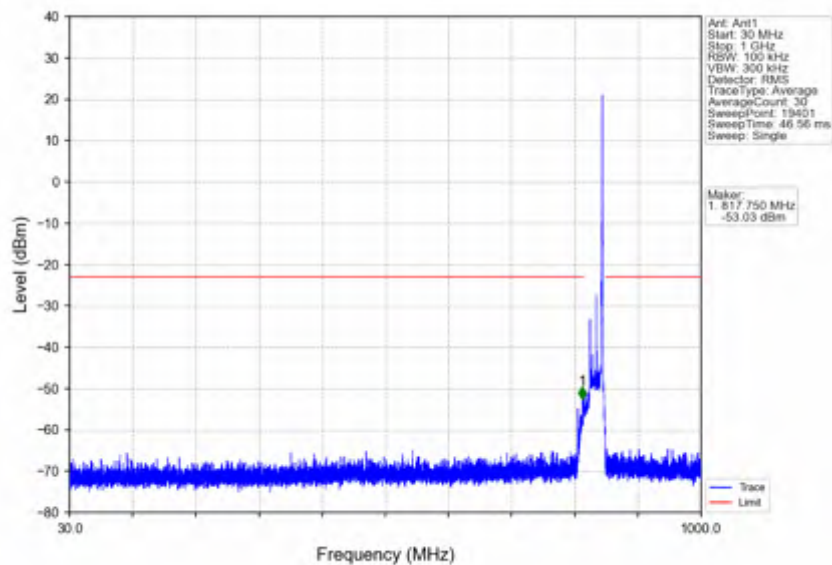


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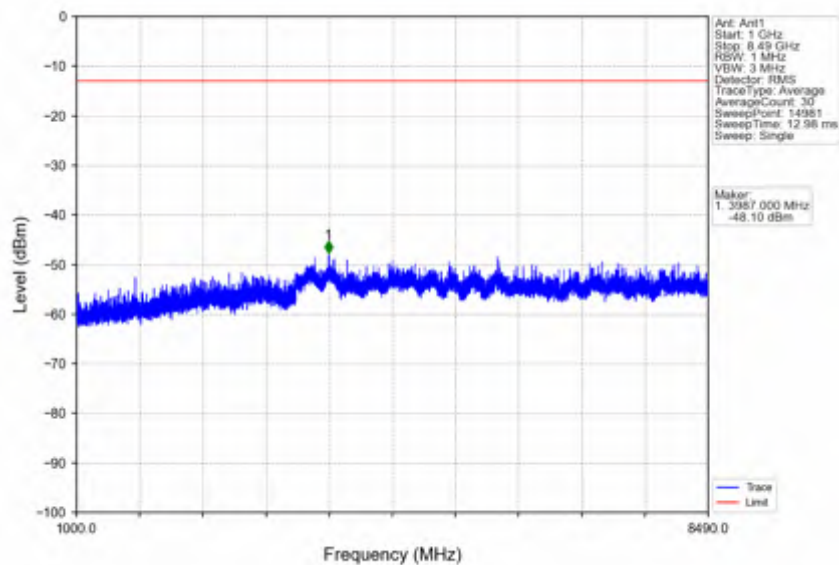
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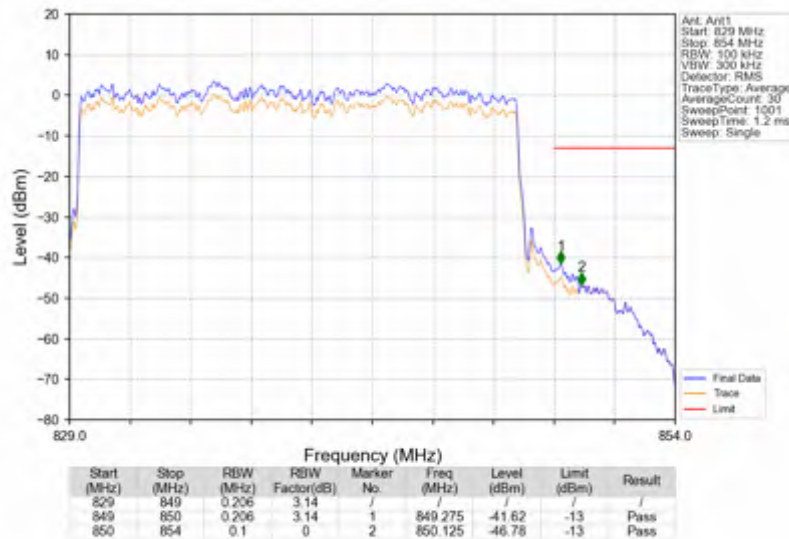
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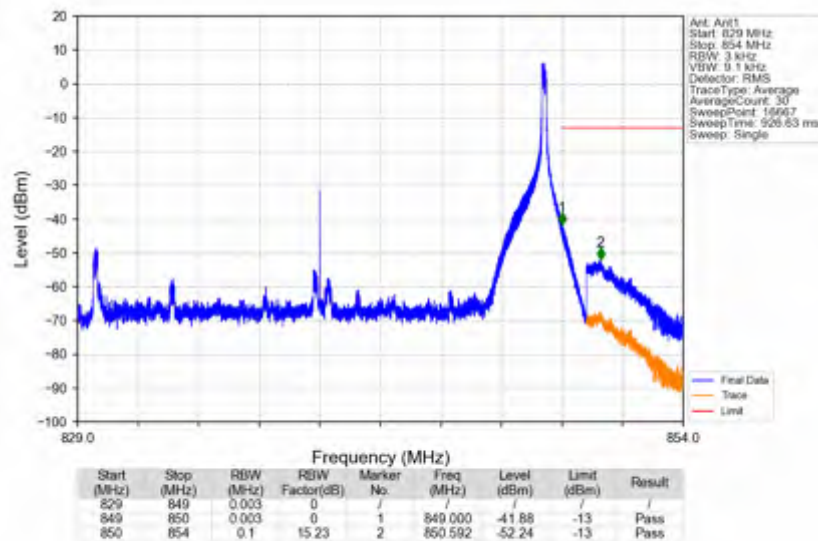
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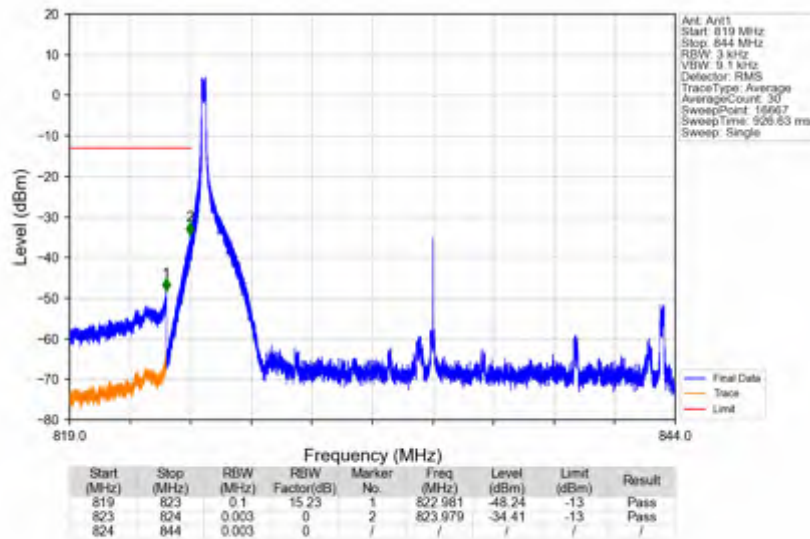
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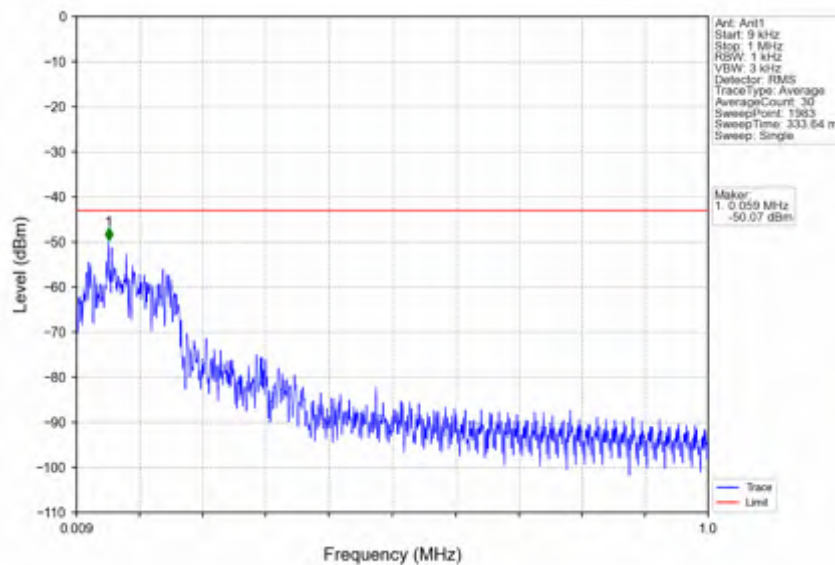
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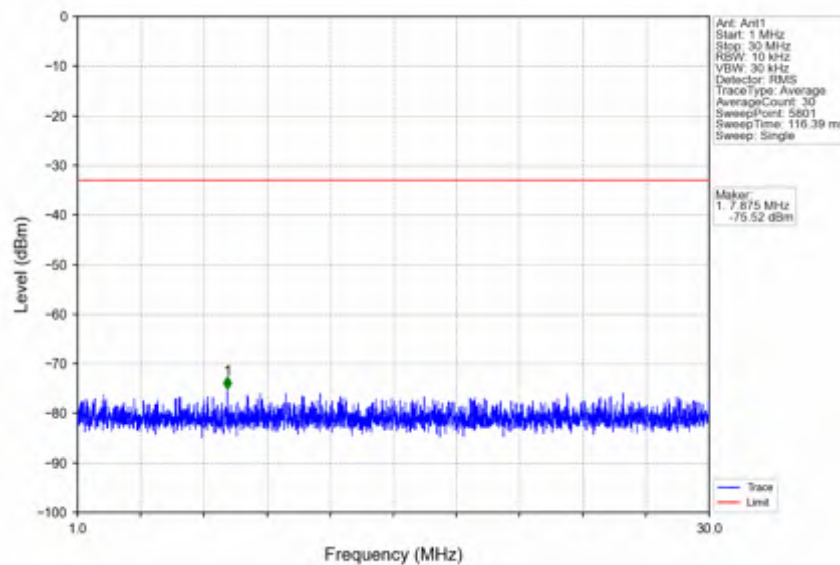
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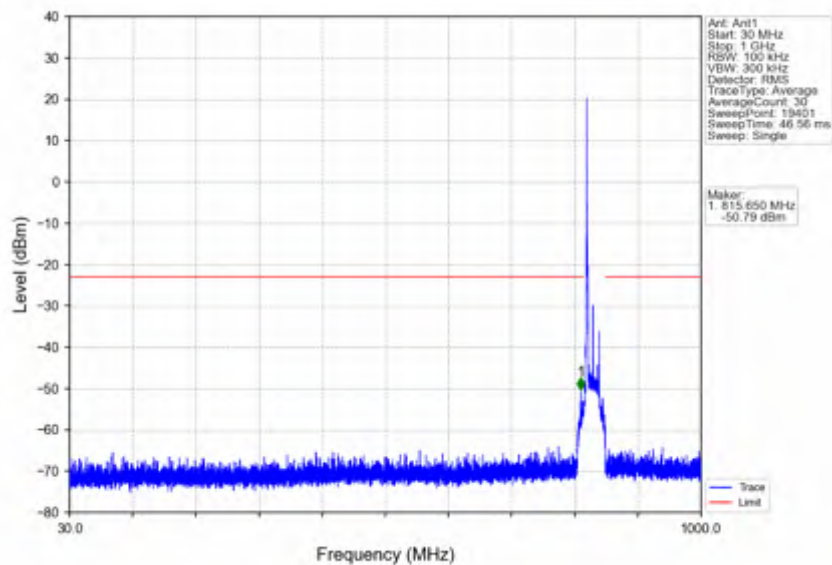
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_834MHz_Edge_1RB_Left



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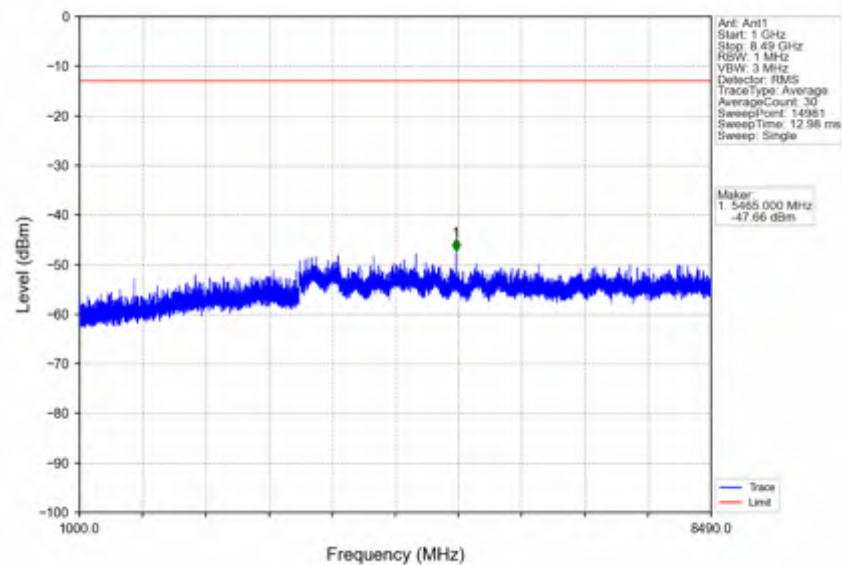
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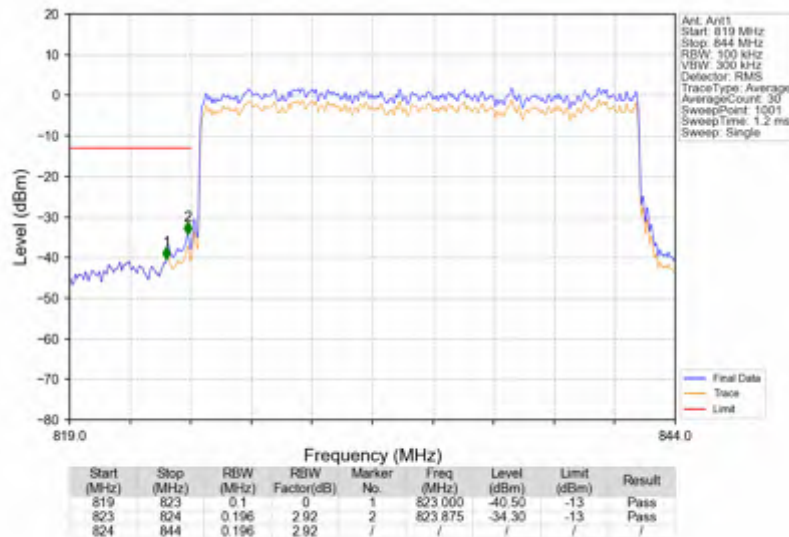
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_834MHz_Edge_1RB_Left



n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_834MHz_Outer_Full



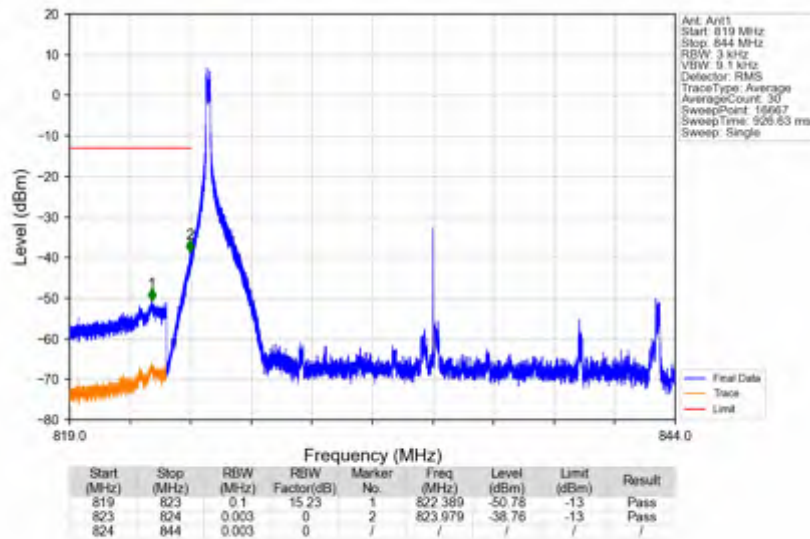
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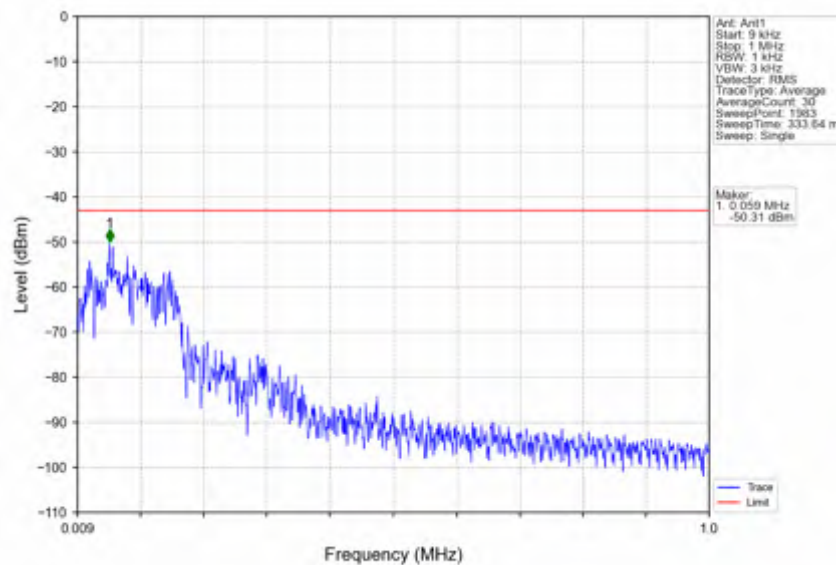
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_834MHz_Inner_1RB_Left



n5 15kHz SISO NTN 20MHz DFT-s-OFDM QPSK 836.5MHz Edge 1RB Left

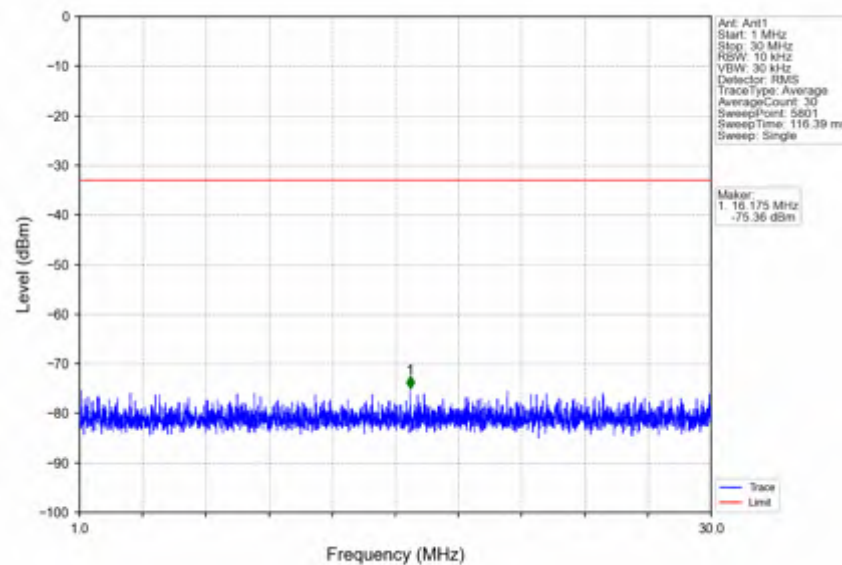


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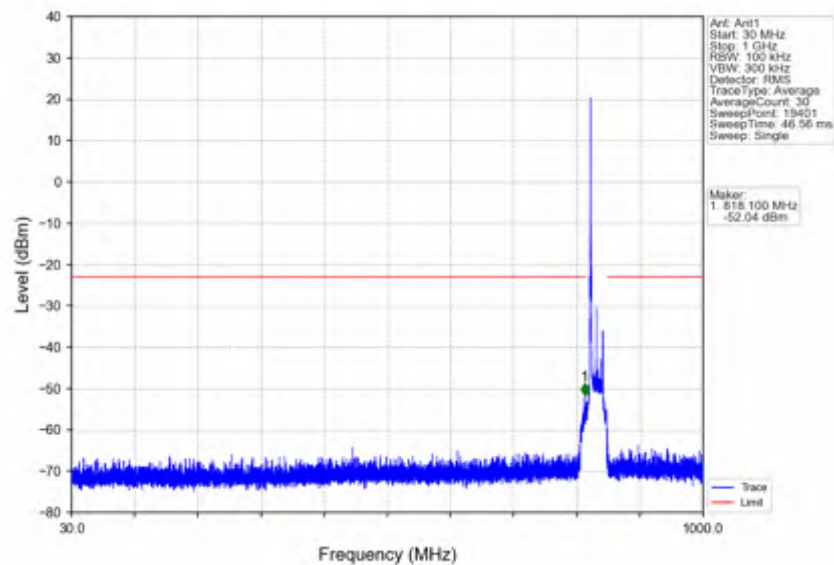
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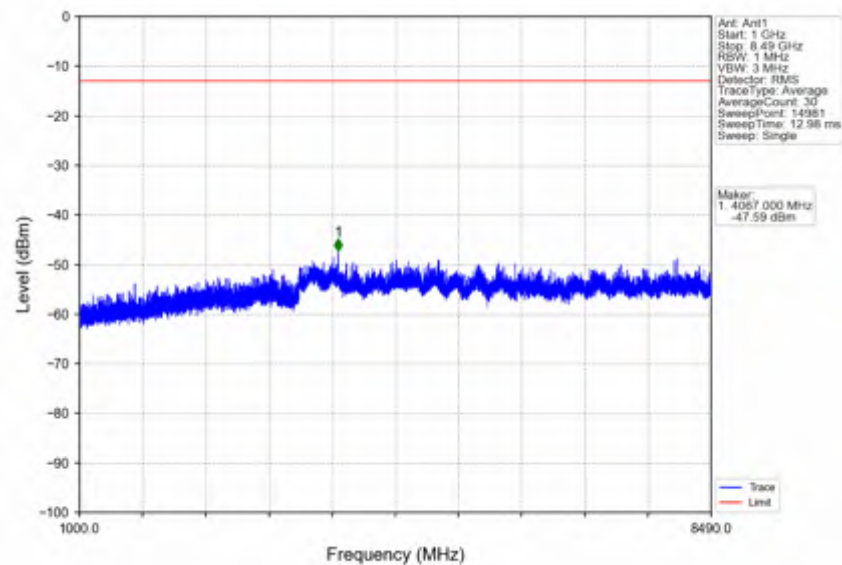
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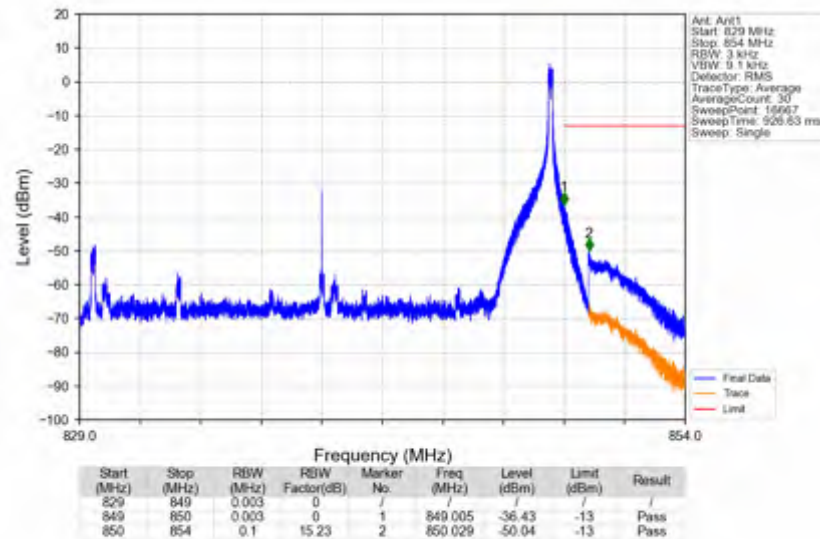
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_839MHz_Edge_1RB_Right

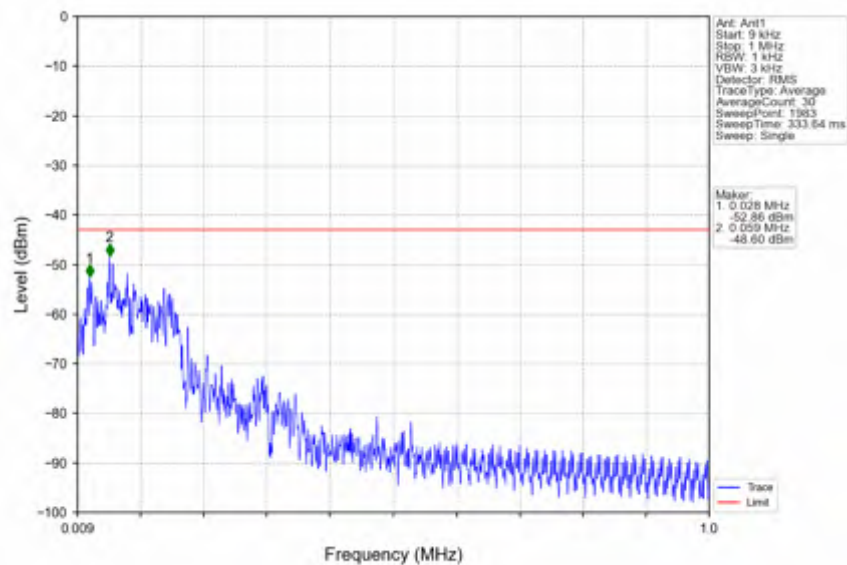


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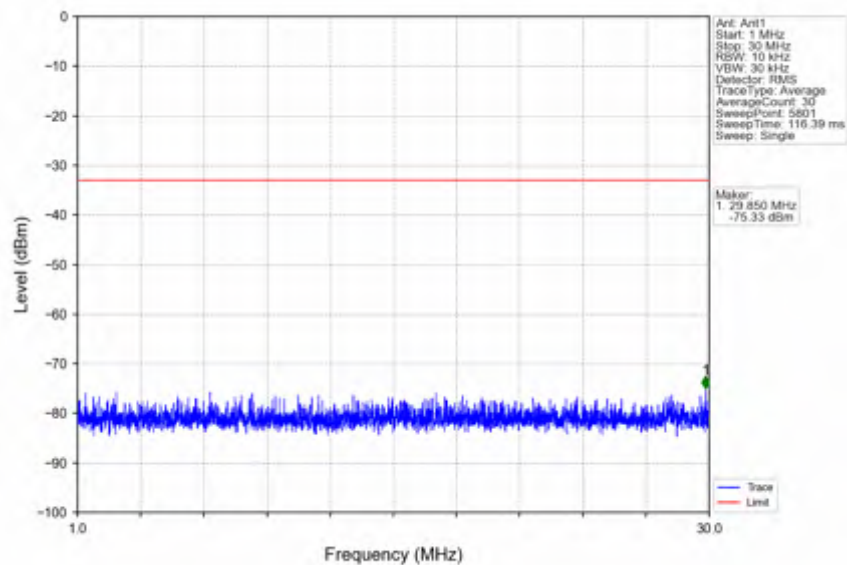
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_839MHz_Edge_1RB_Right



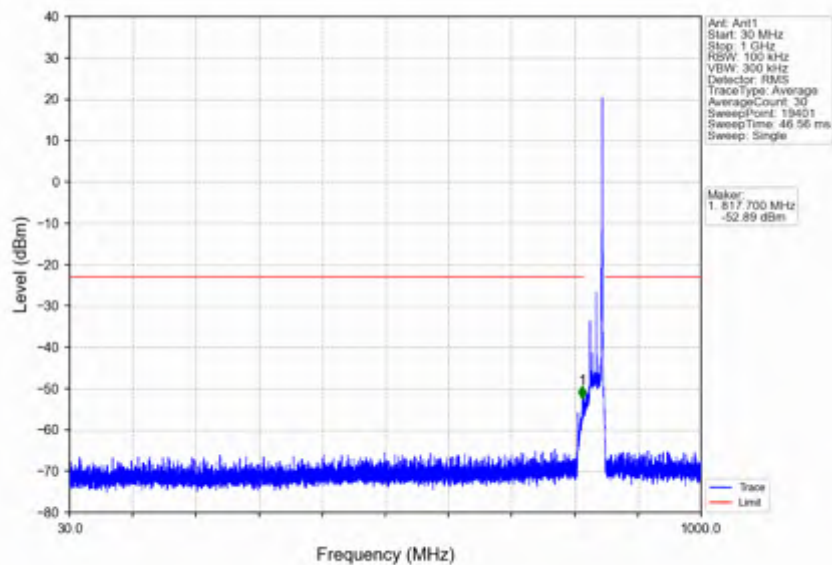
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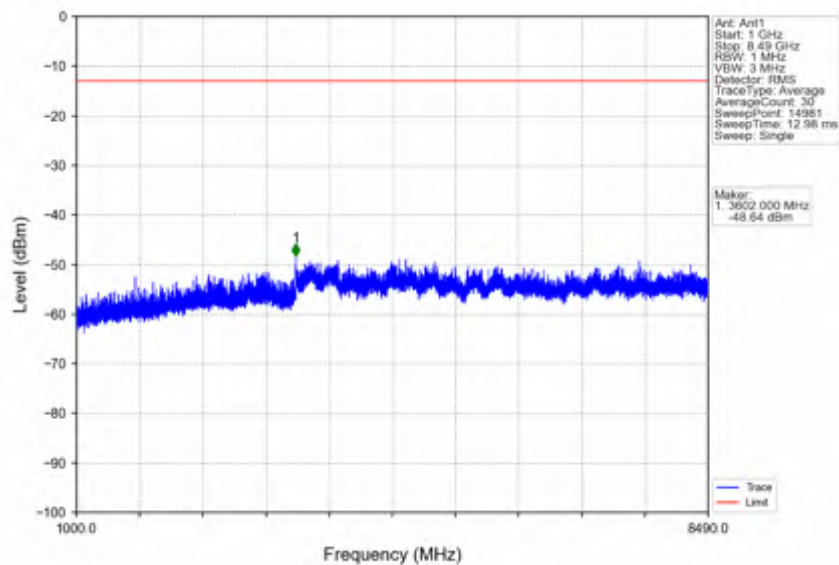
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_839MHz_Edge_1RB_Right

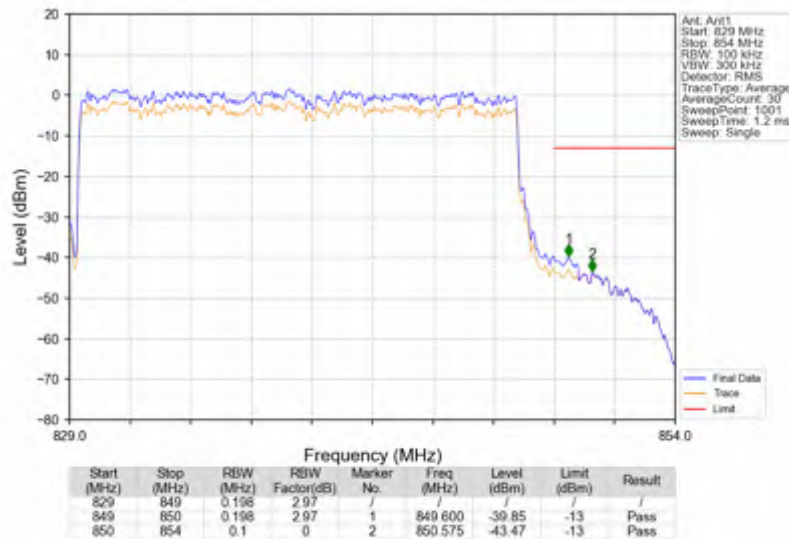


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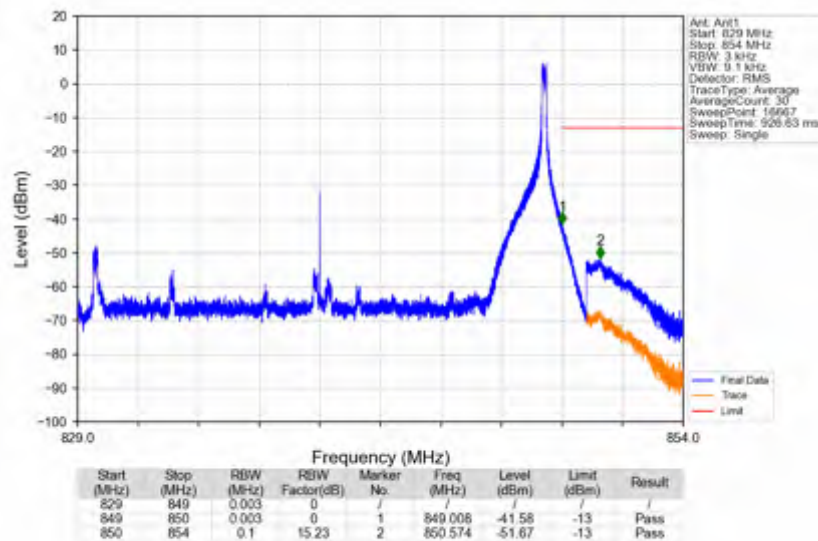
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_839MHz_Inner_1RB_Right



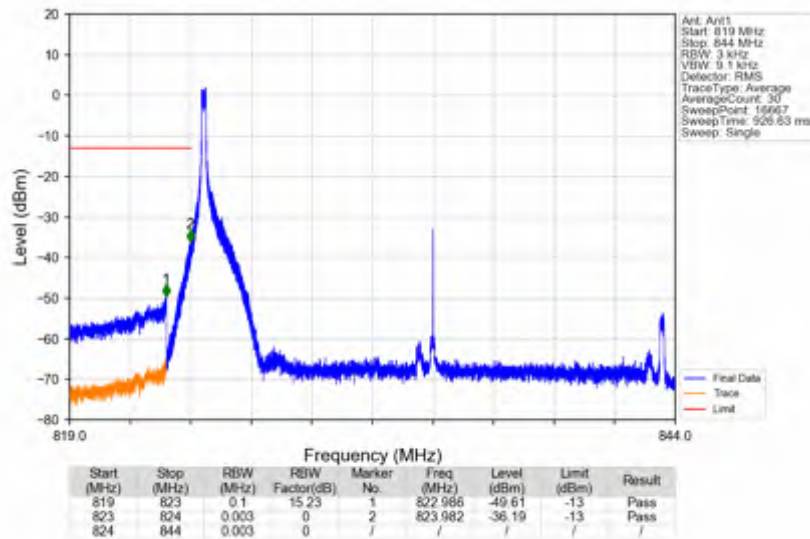
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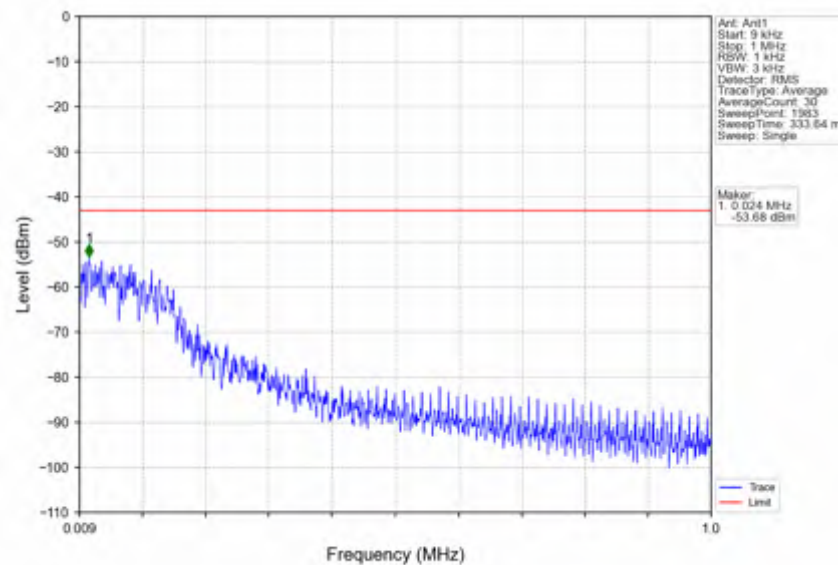
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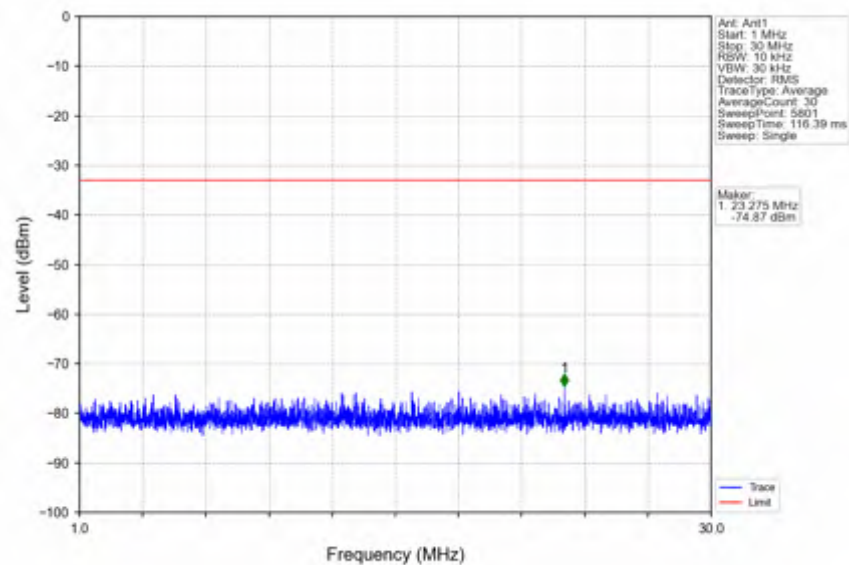


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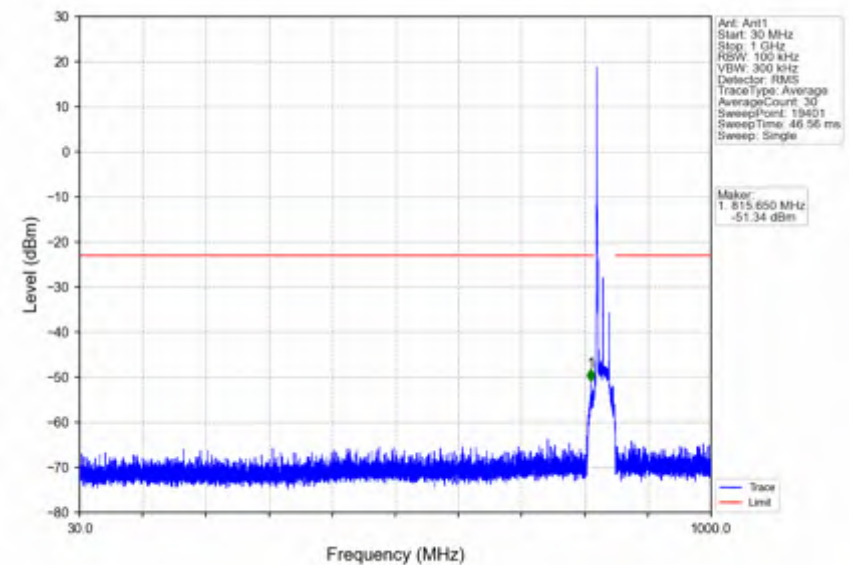
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