

Appendix for KSCR2207001267AT-FCC-NR-Spurious Emission

1. n2 Spurious Emission

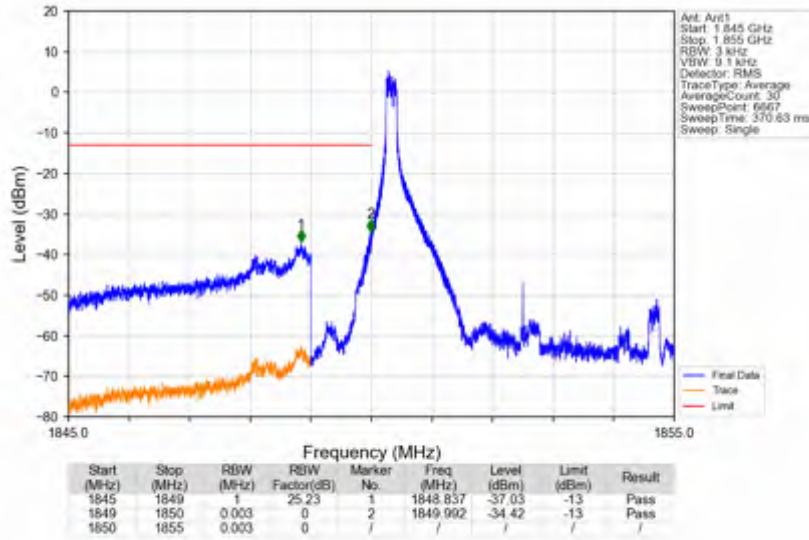
1.1 15k_SISO_5MHz_NTNV

1.1.1 Test Result

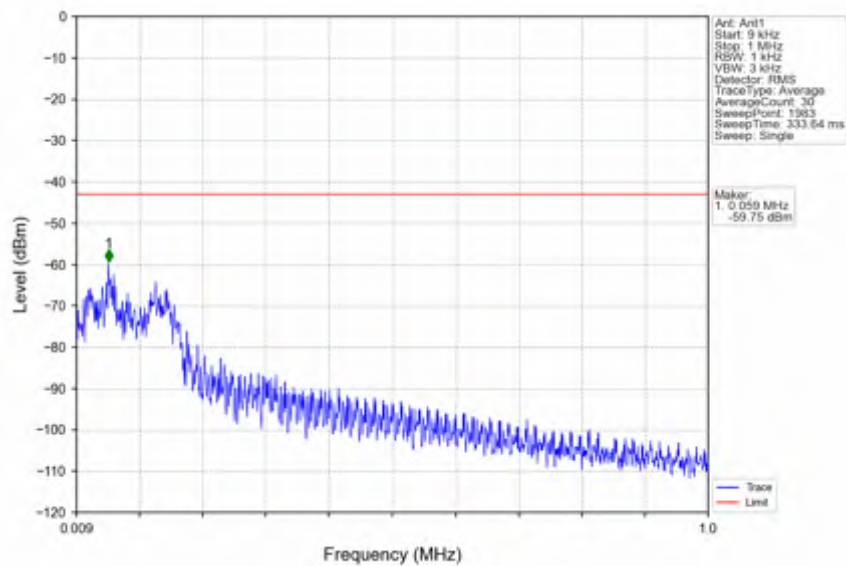
5G NR n2 SCS=15kHz SISO 5MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	1852.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	1907.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	1852.5	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	1852.5	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
1907.5	Edge_1RB_Left	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	
	Inner_1RB_Right	Refer To Test Graph			Pass	

1.1.2 Test Graph

n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1852.5MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1852.5MHz_Edge_1RB_Left

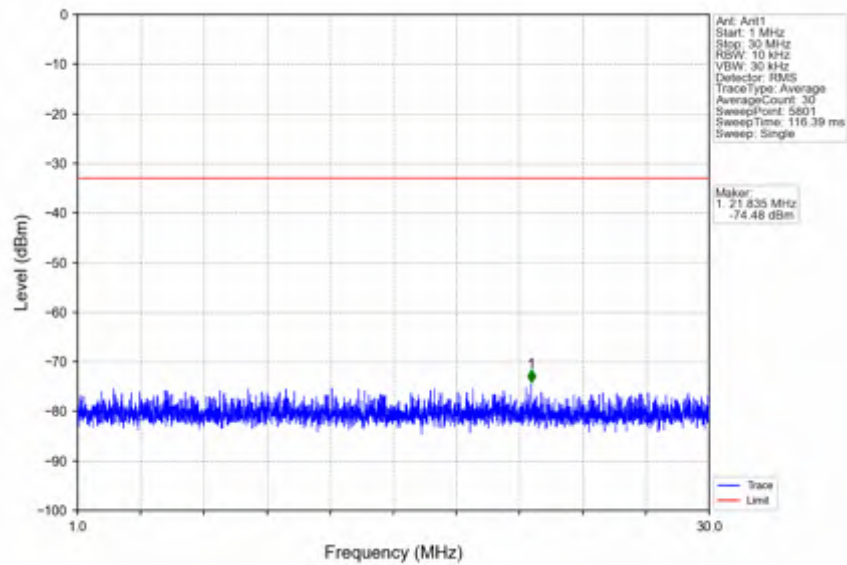


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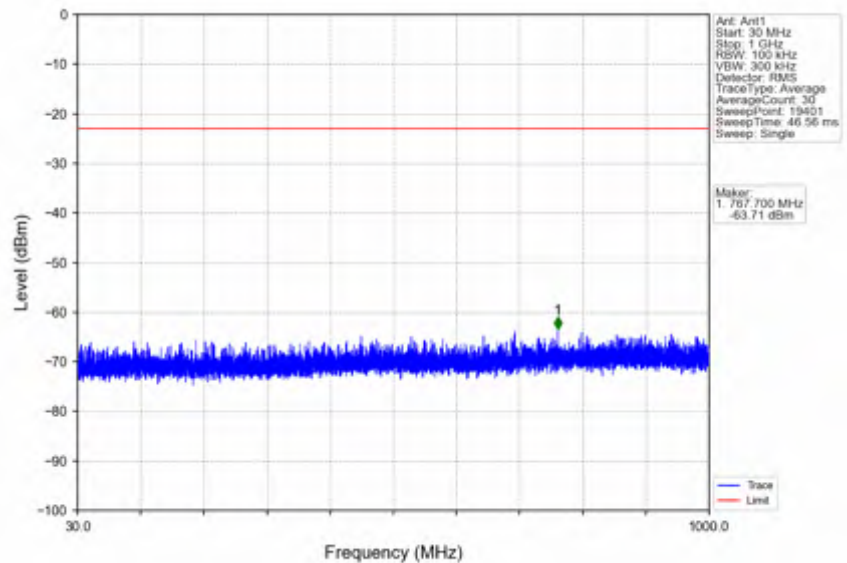
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1852.5MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1852.5MHz_Edge_1RB_Left



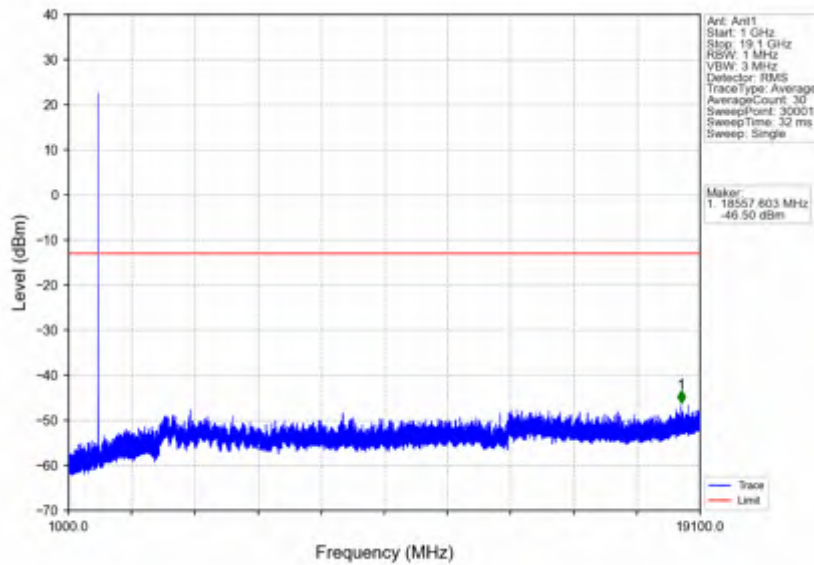
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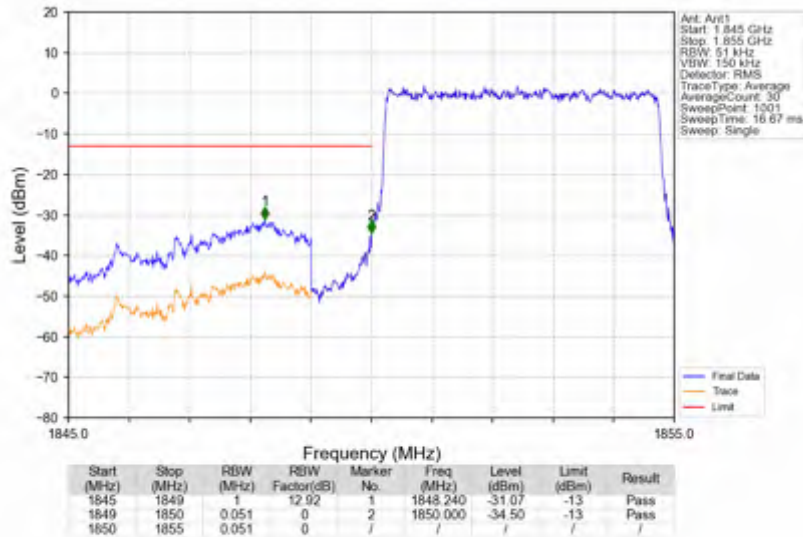
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1852.5MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1852.5MHz_Outer_Full



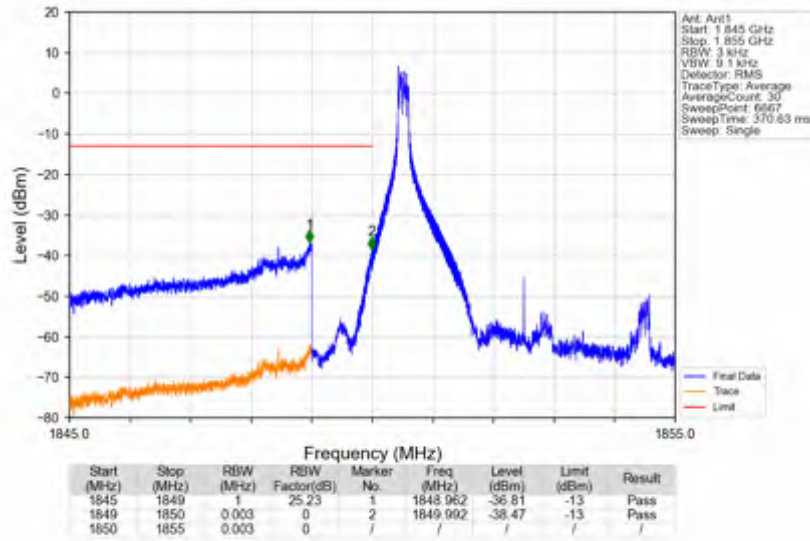
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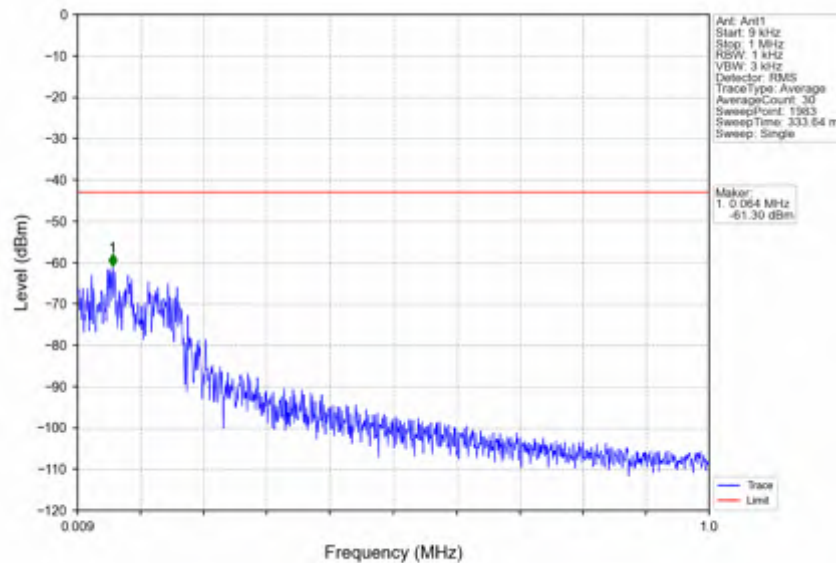
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1852.5MHz_Inner_1RB_Left



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Edge_1RB_Left

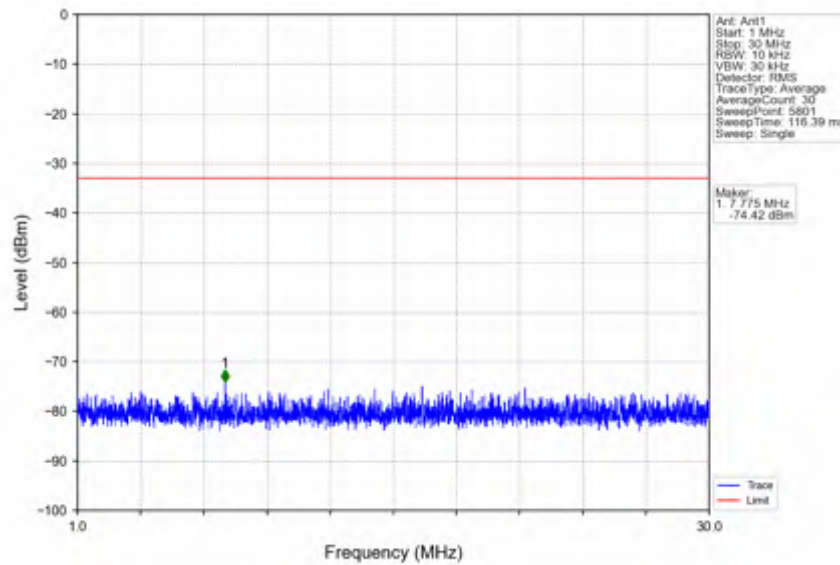


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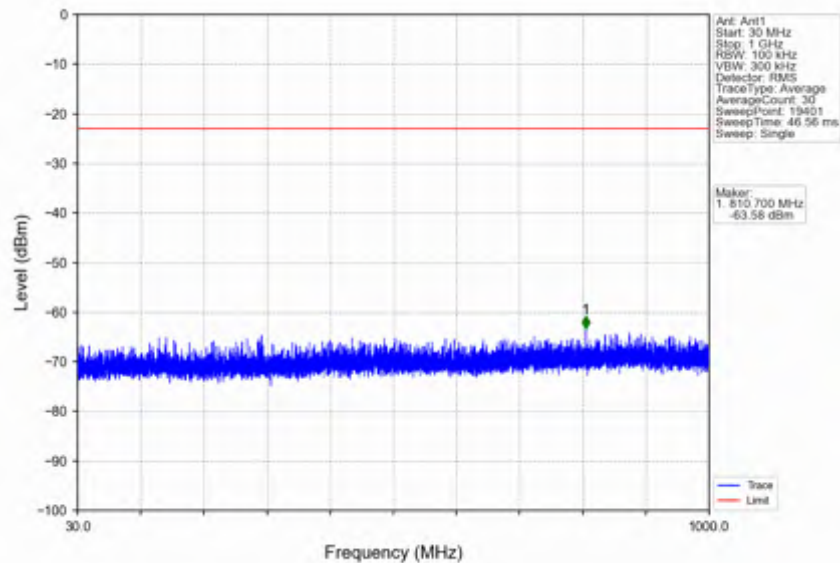
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Edge_1RB_Left

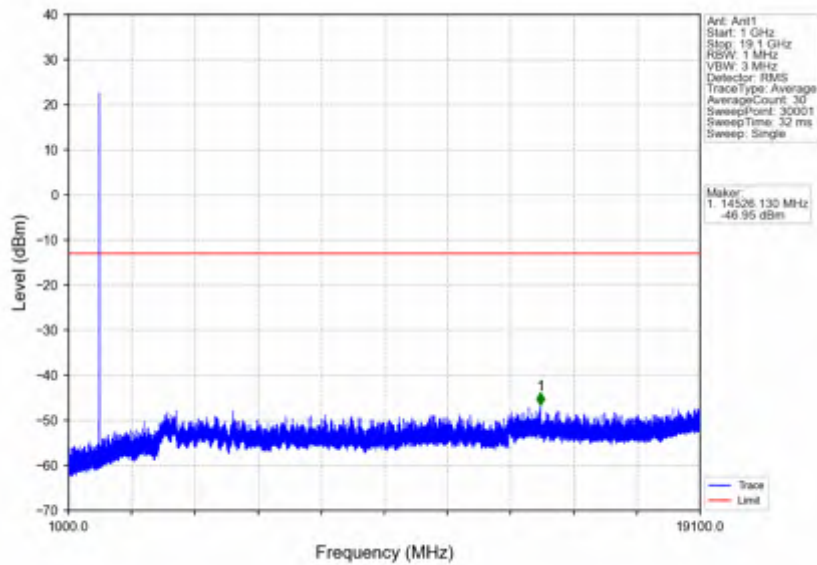


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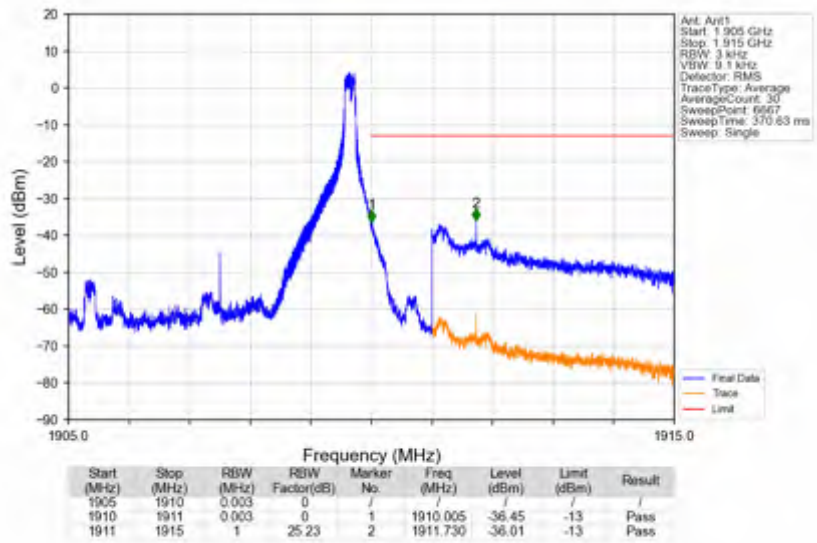
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1907.5MHz_Edge_1RB_Right



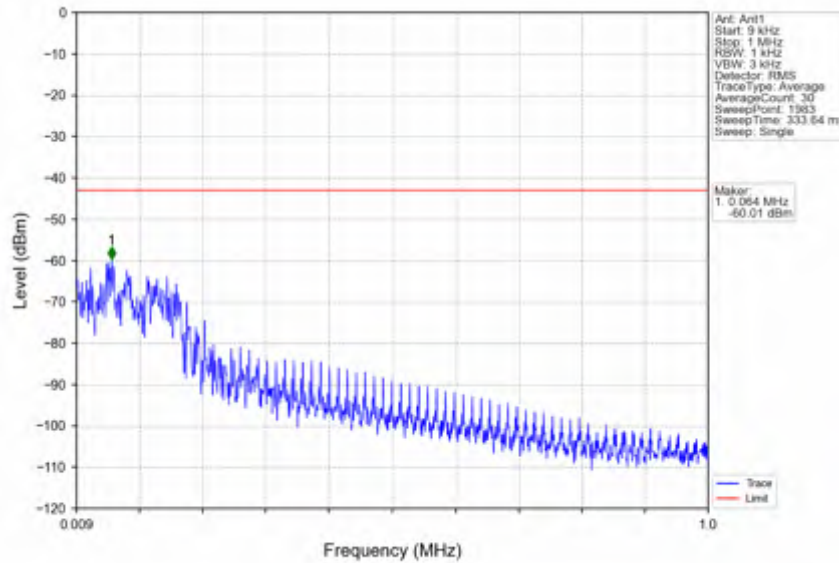
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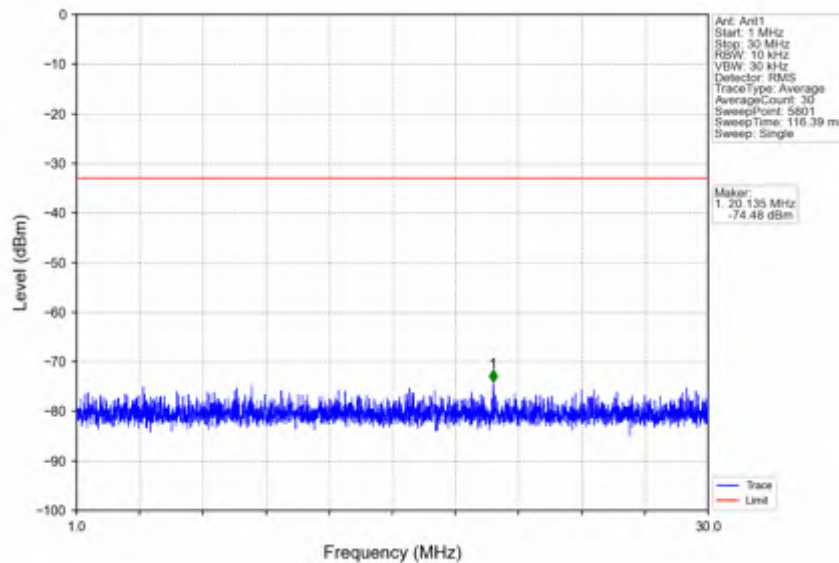
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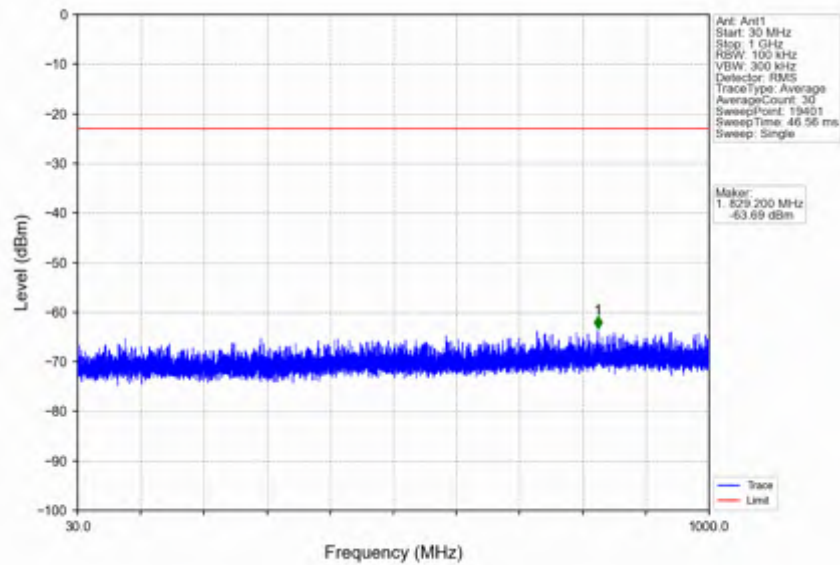
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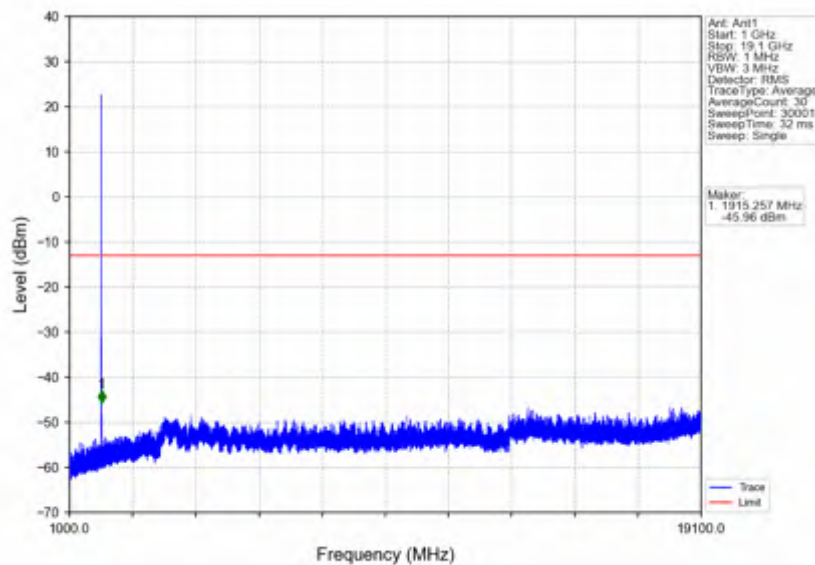
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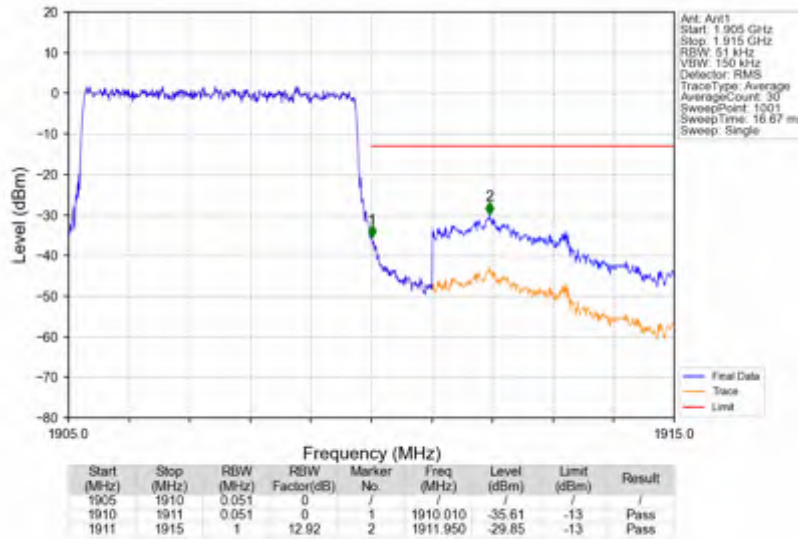
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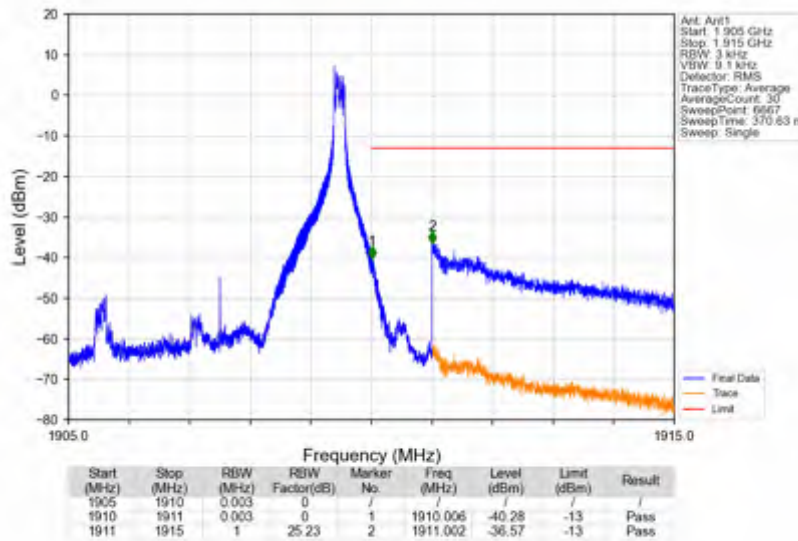
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1907.5MHz_Inner_1RB_Right



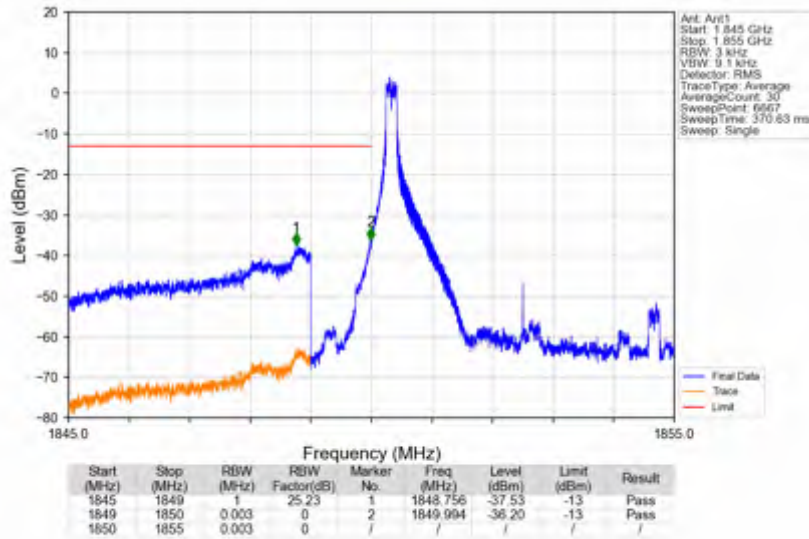
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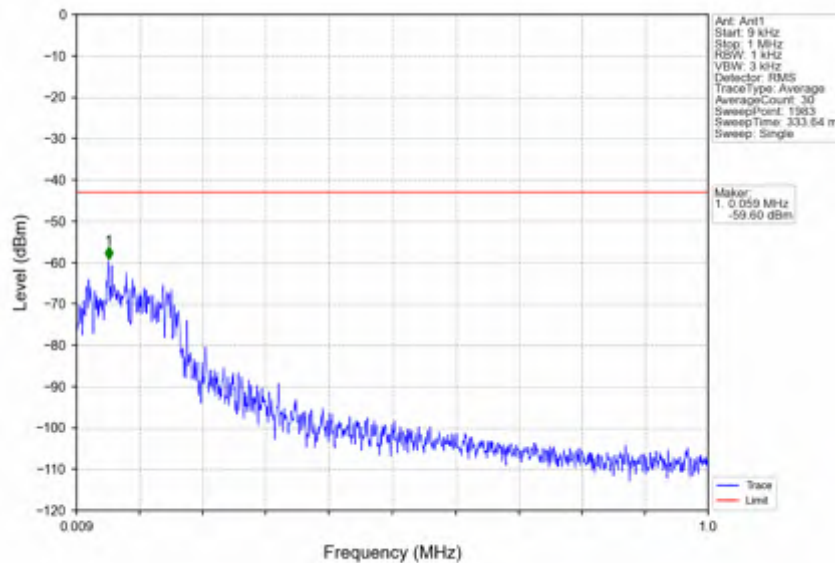
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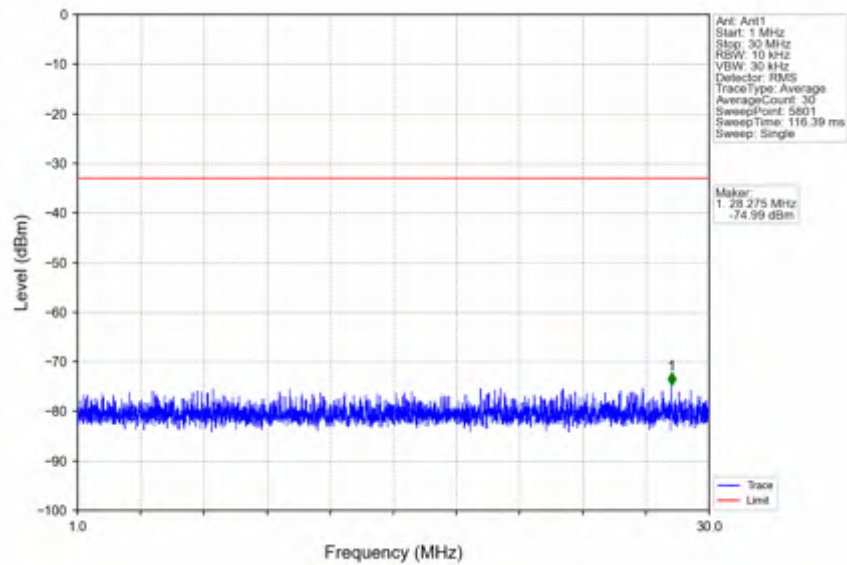


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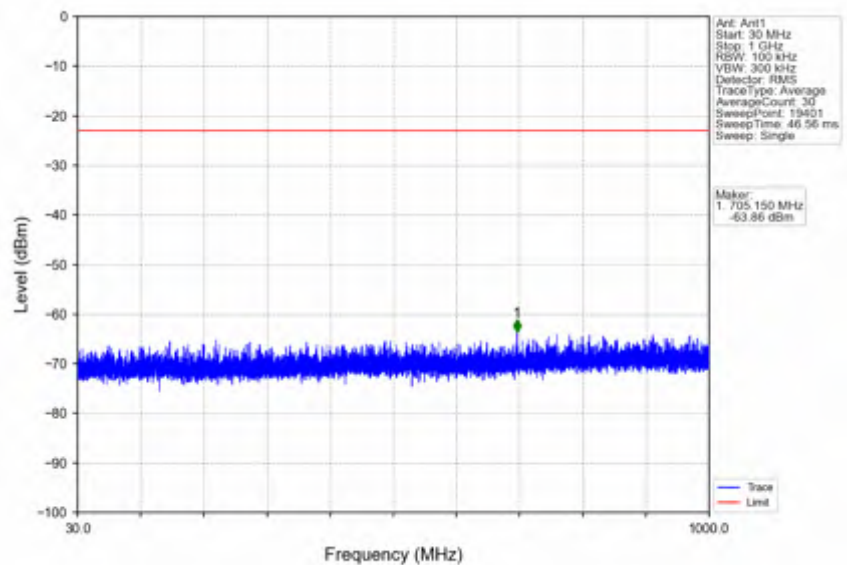
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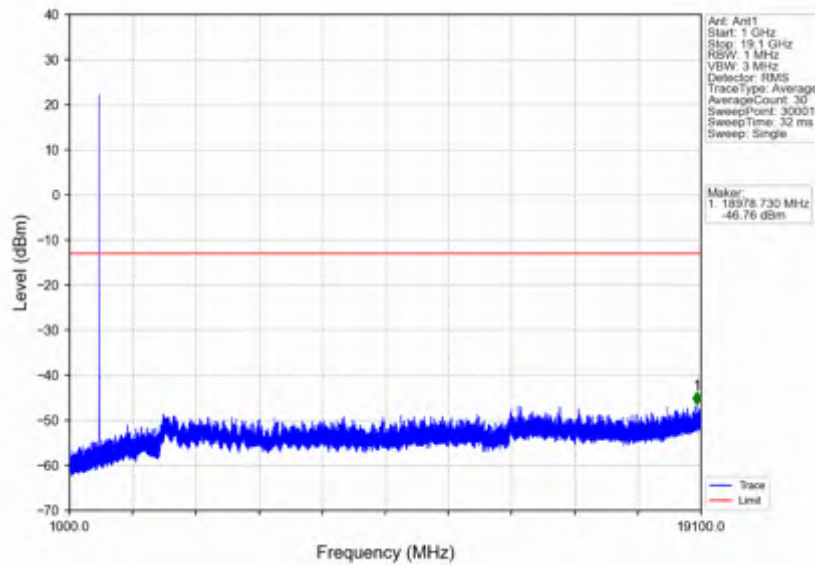
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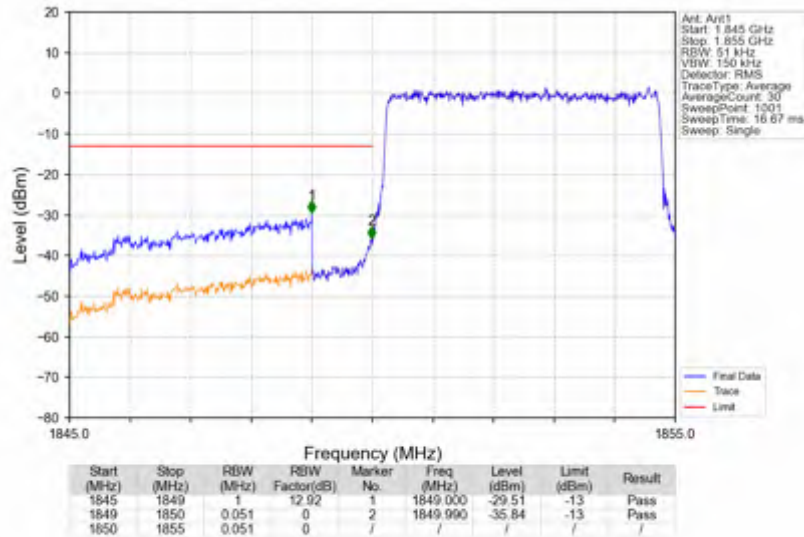
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1852.5MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1852.5MHz_Outer_Full



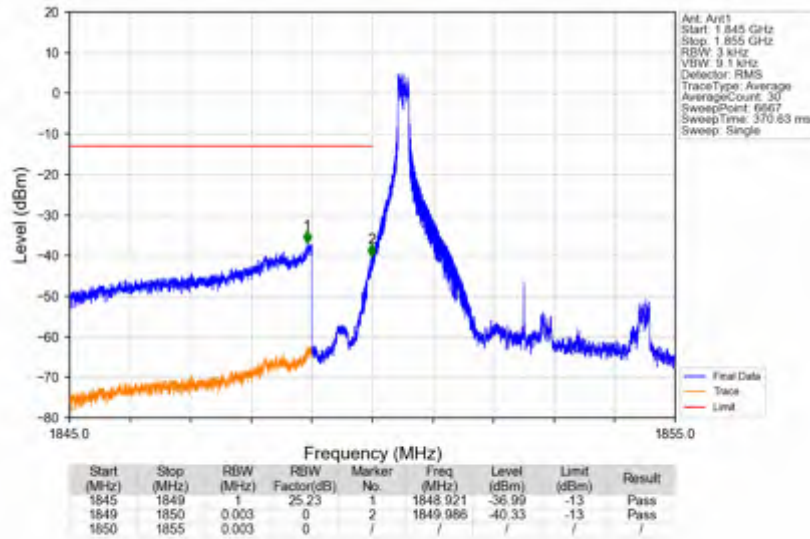
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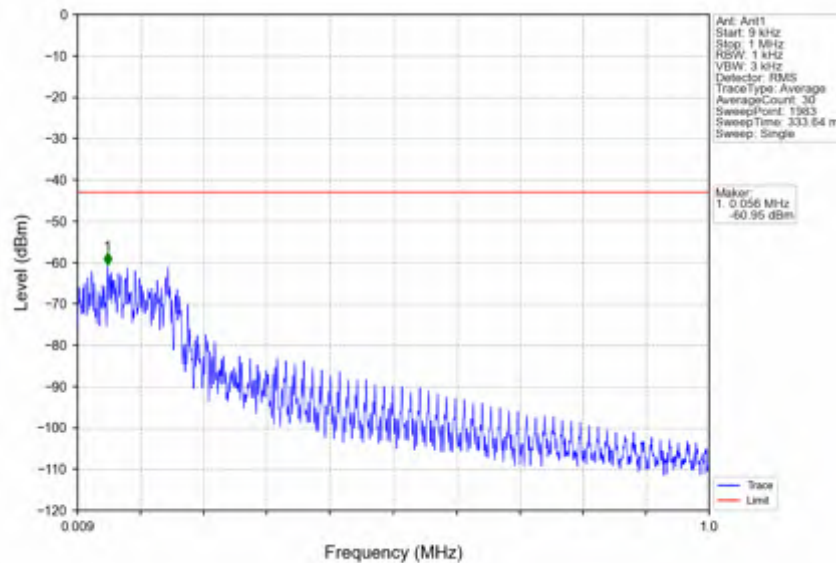
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1852.5MHz_Inner_1RB_Left



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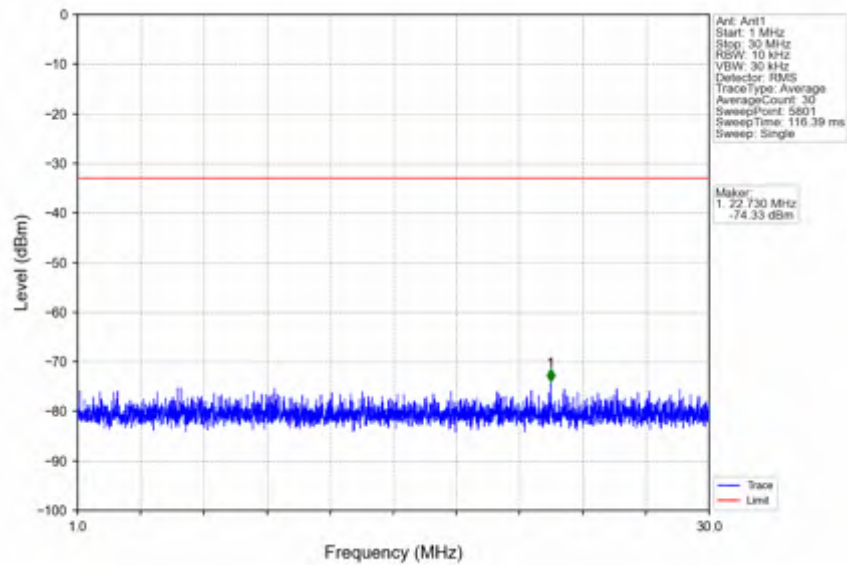


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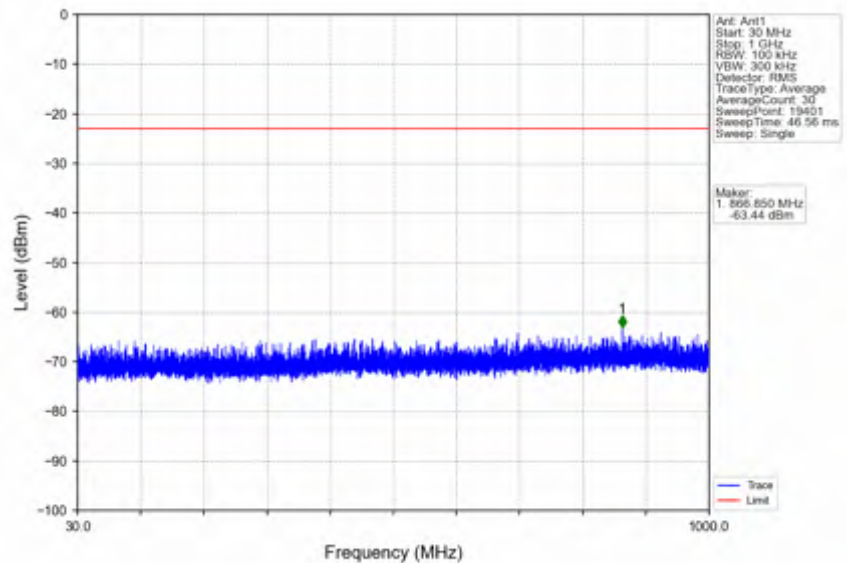
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left



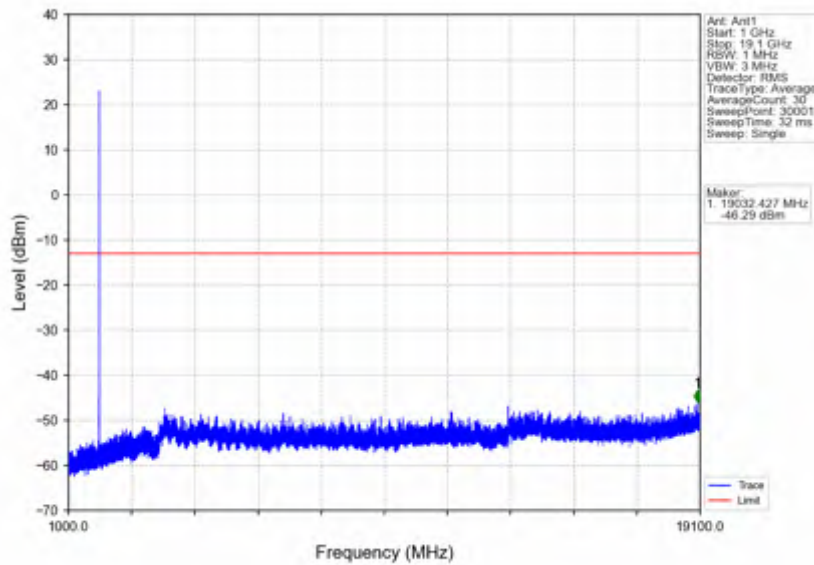
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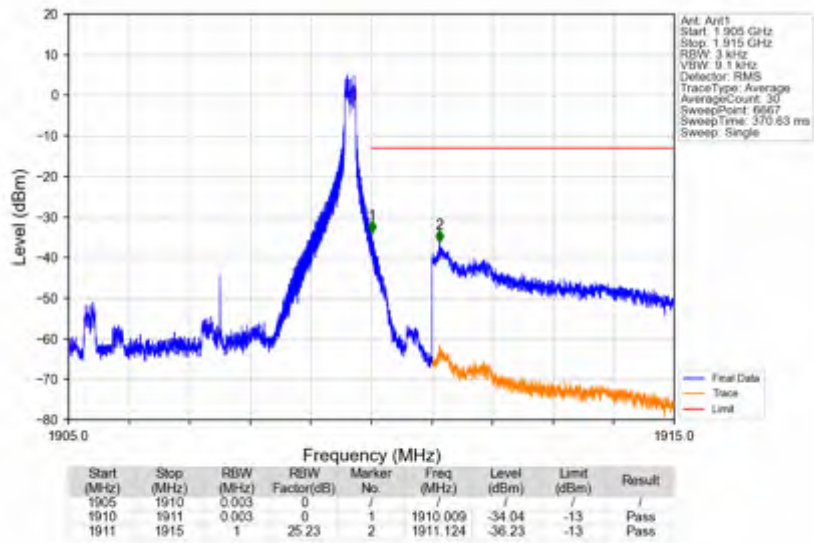
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1907.5MHz_Edge_1RB_Right



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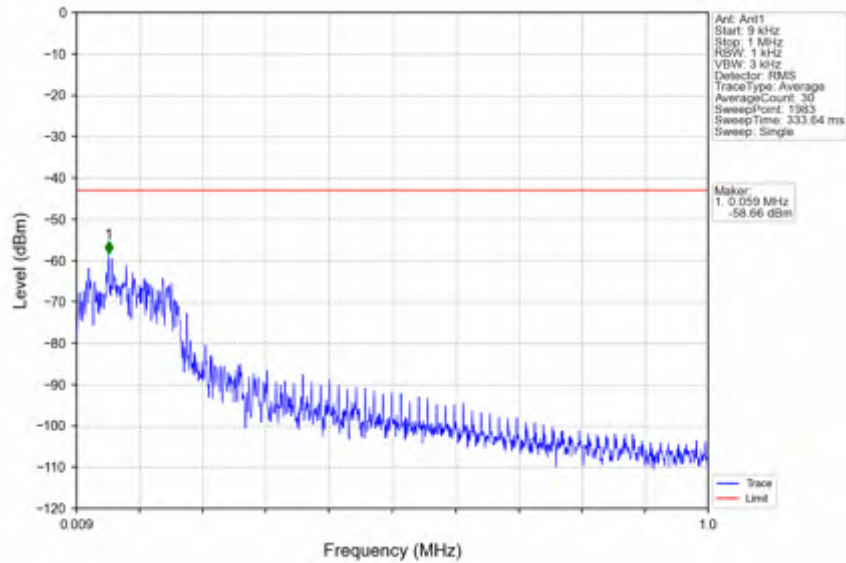
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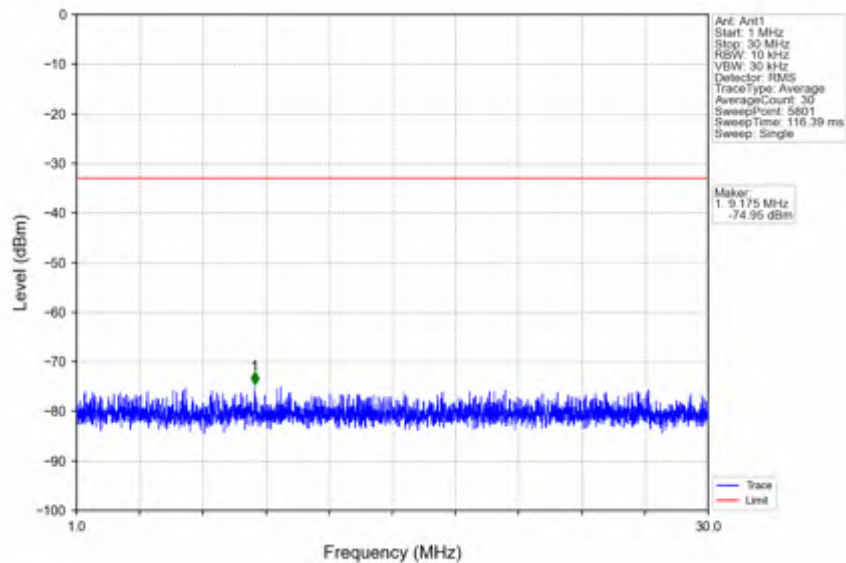
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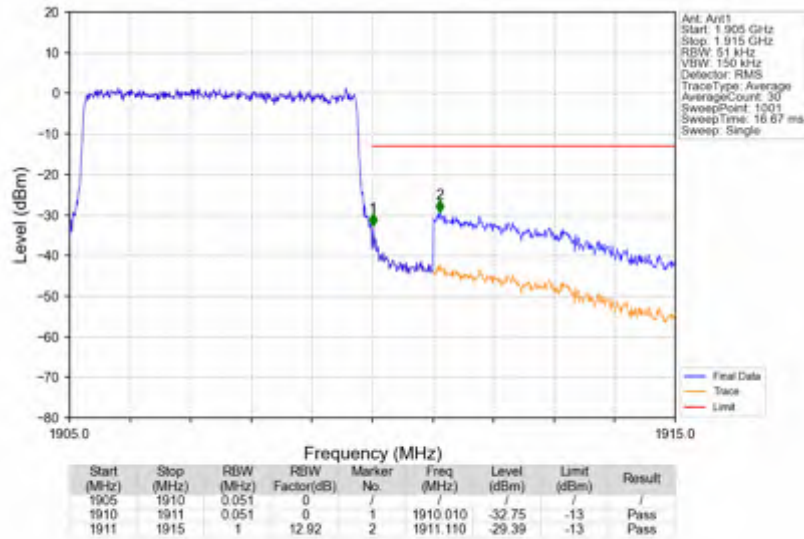


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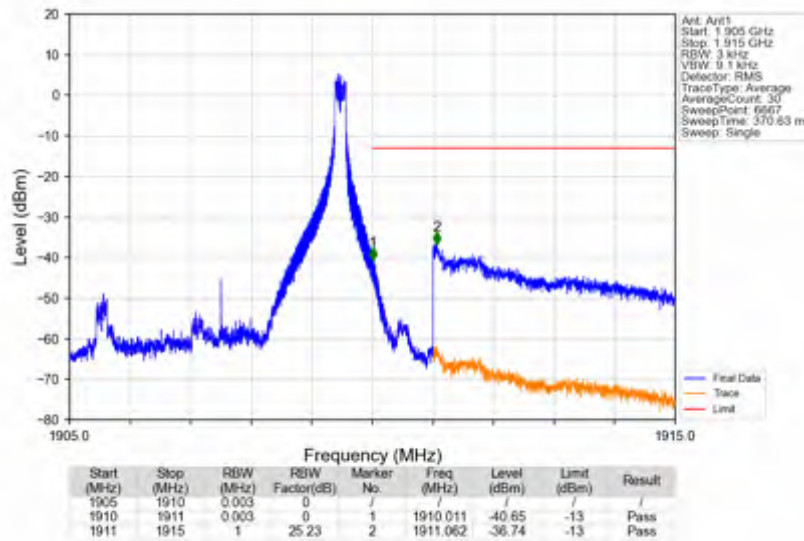
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1907.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1907.5MHz_Inner_1RB_Right



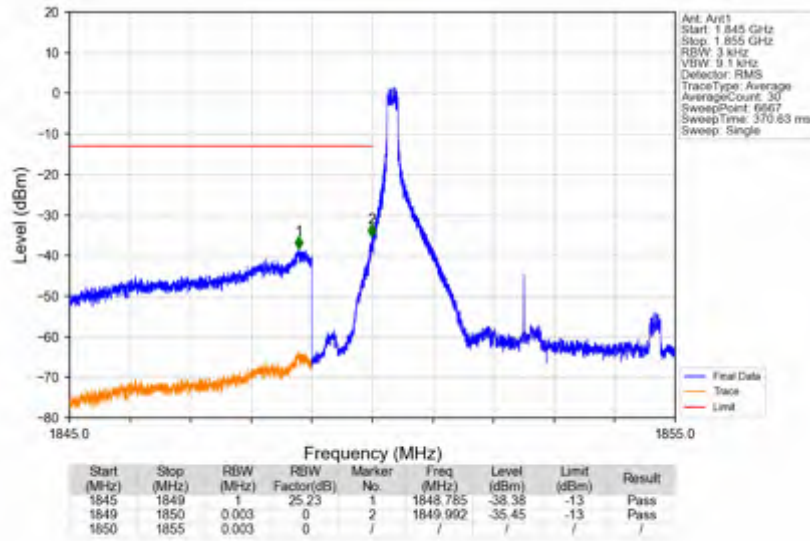
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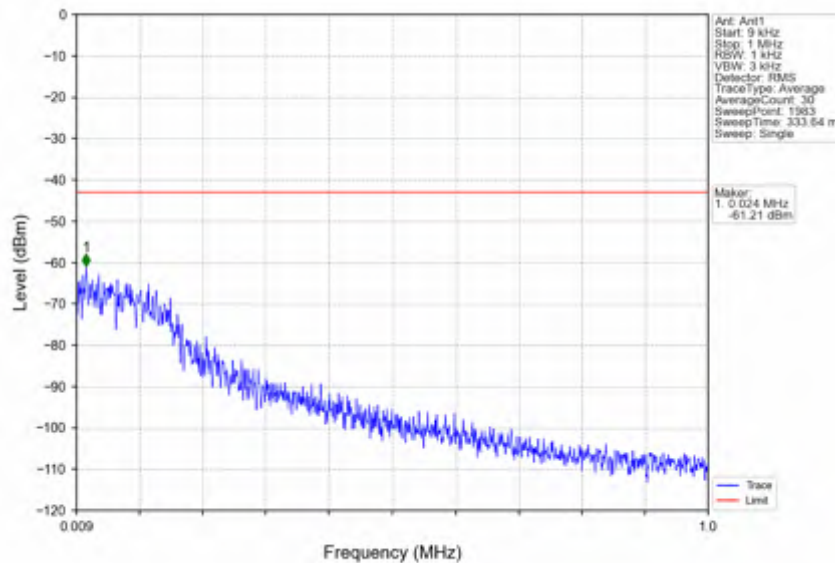
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n2_15kHz_SISO_NTV_5MHz_CP-OFDM QPSK_1852.5MHz_Edge_1RB_Left



n2_15kHz_SISO_NTV_5MHz_CP-OFDM QPSK_1852.5MHz_Edge_1RB_Left

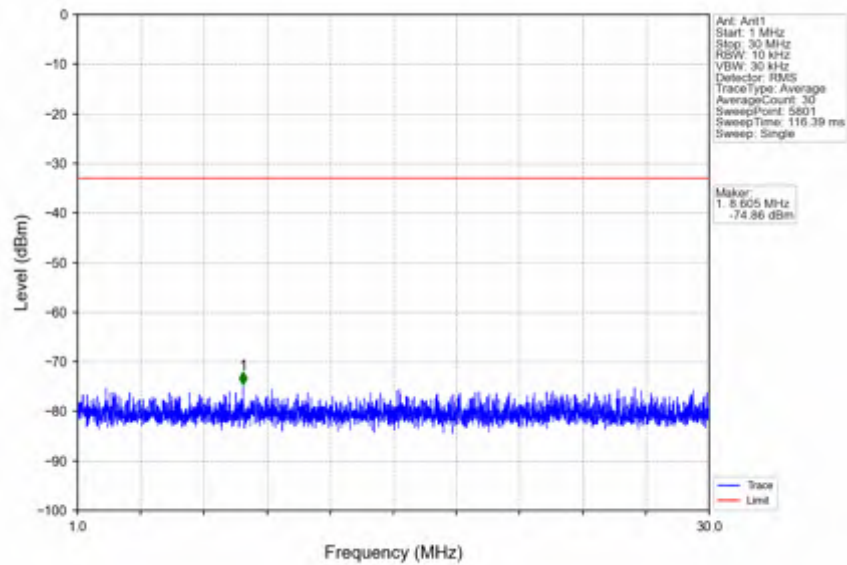


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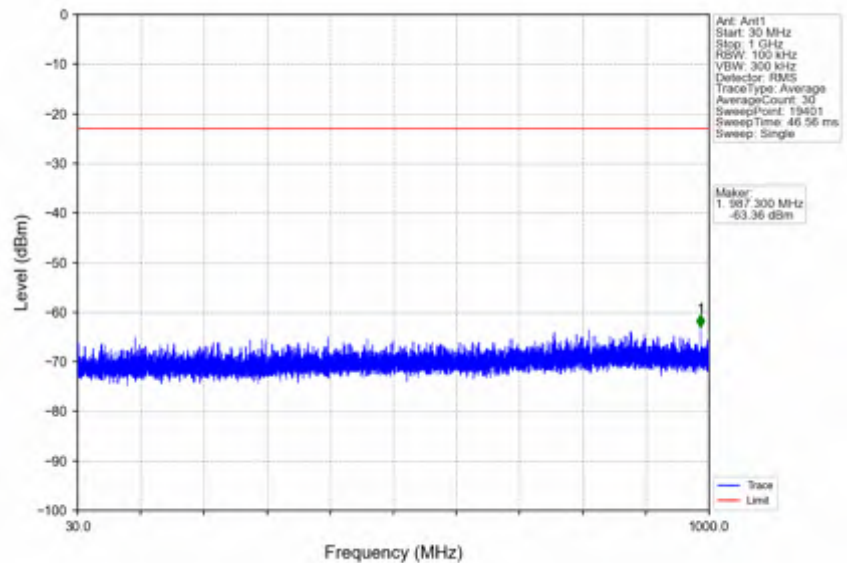
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1852.5MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1852.5MHz_Edge_1RB_Left



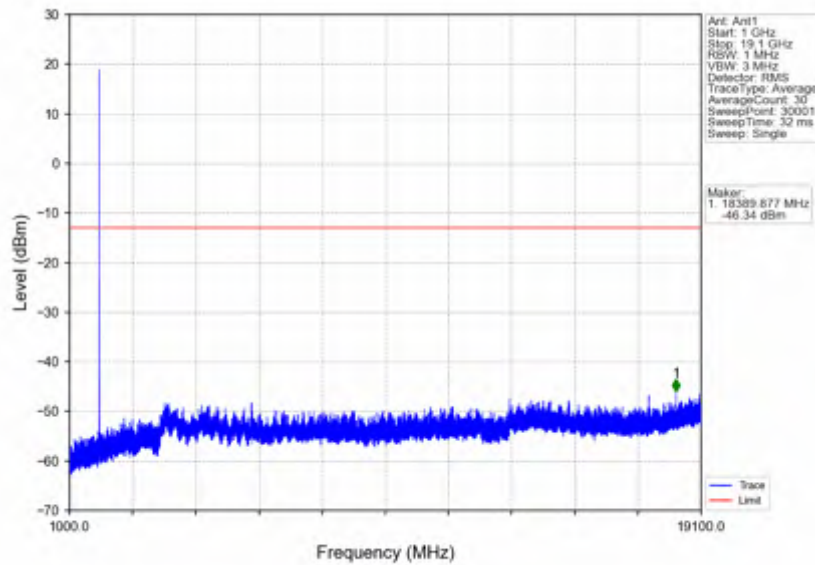
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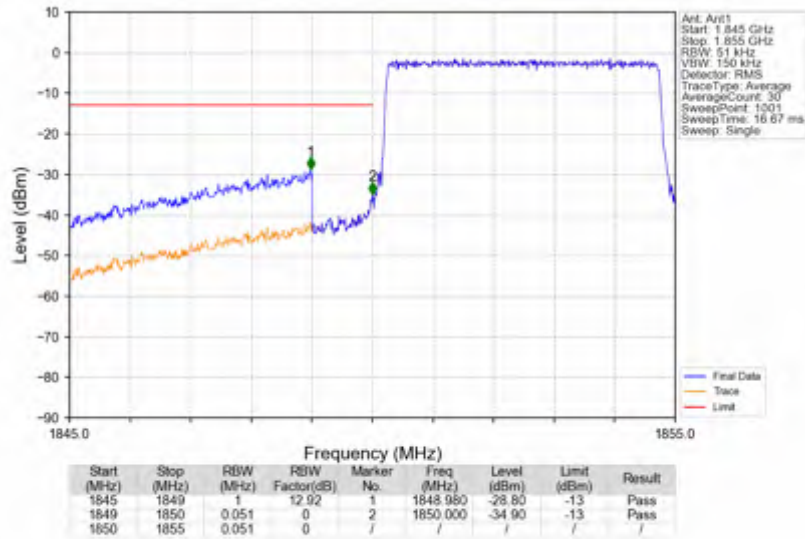
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1852.5MHz_Edge_1RB_Left



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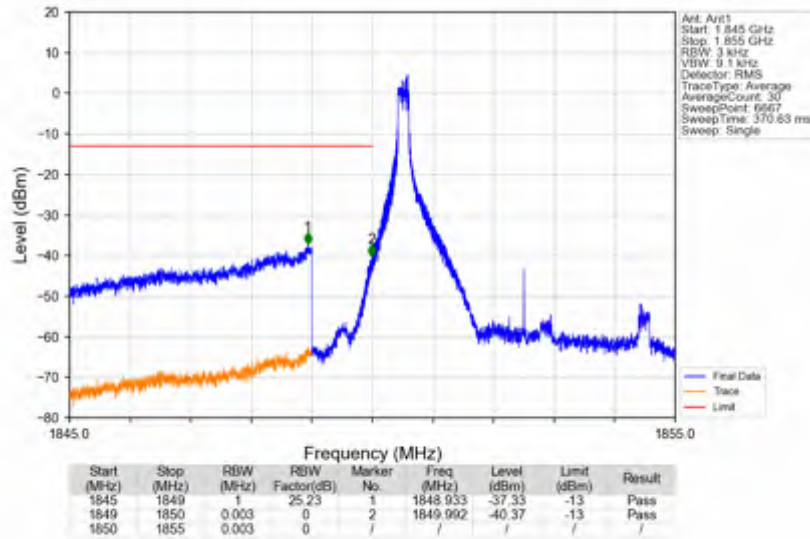


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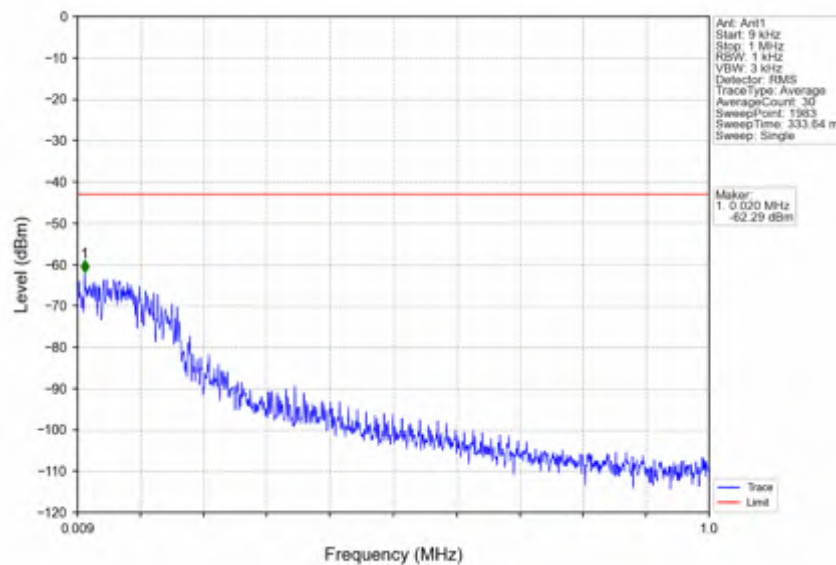
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1852.5MHz_Inner_1RB_Left



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1880MHz_Edge_1RB_Left

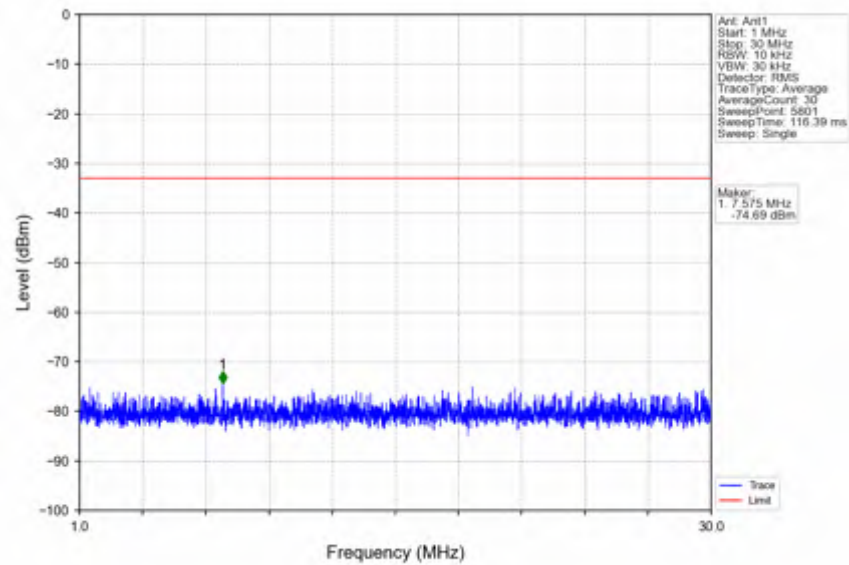


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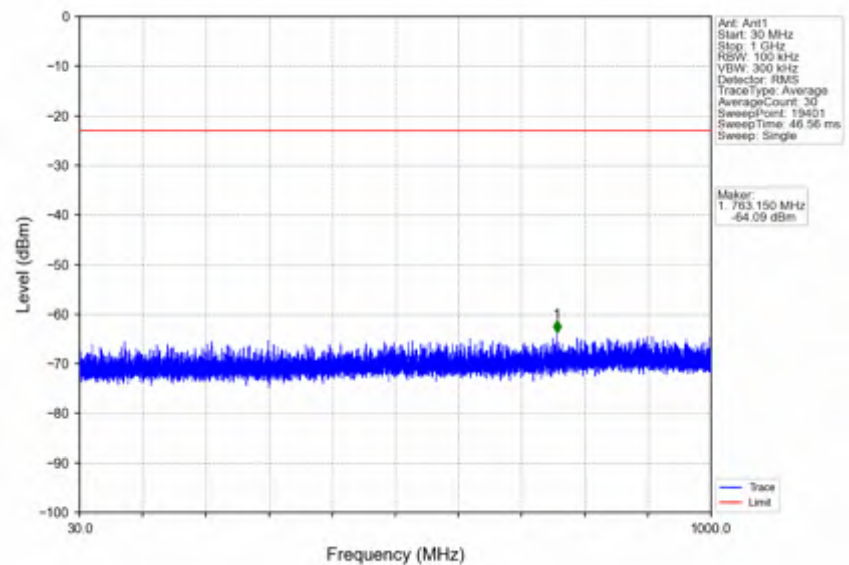
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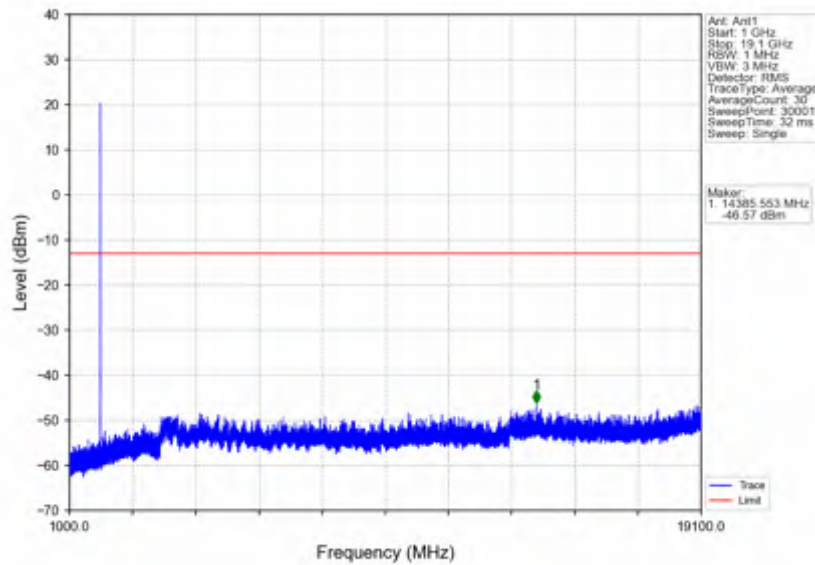
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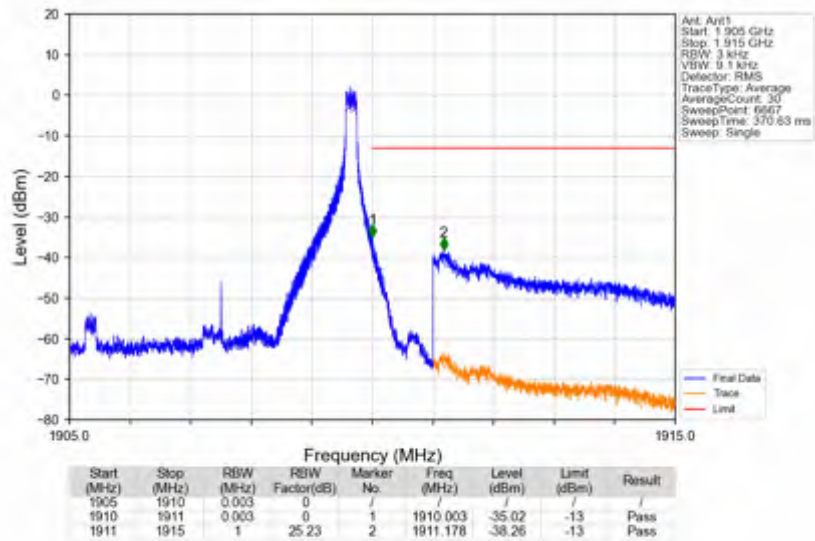
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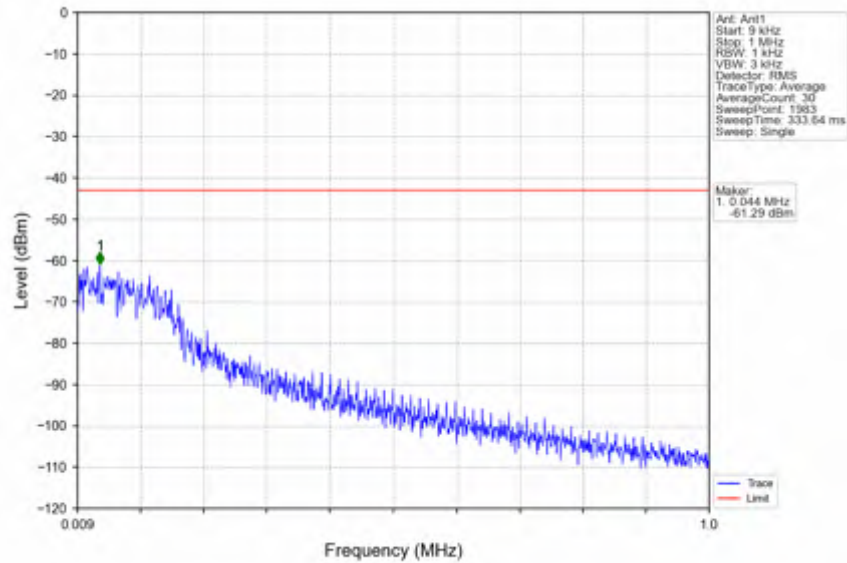


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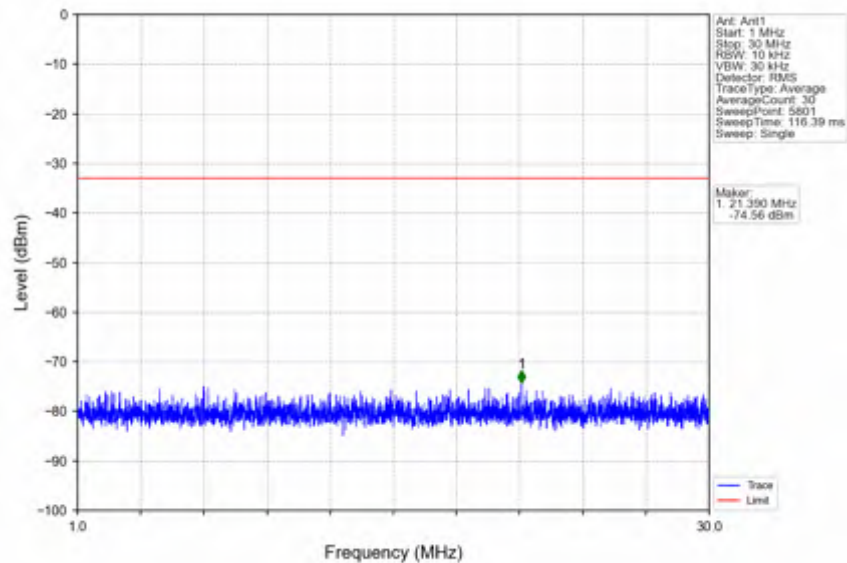
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n2_15kHz_SISO_NTV_5MHz_CP-OFDM QPSK_1907.5MHz_Edge_1RB_Right



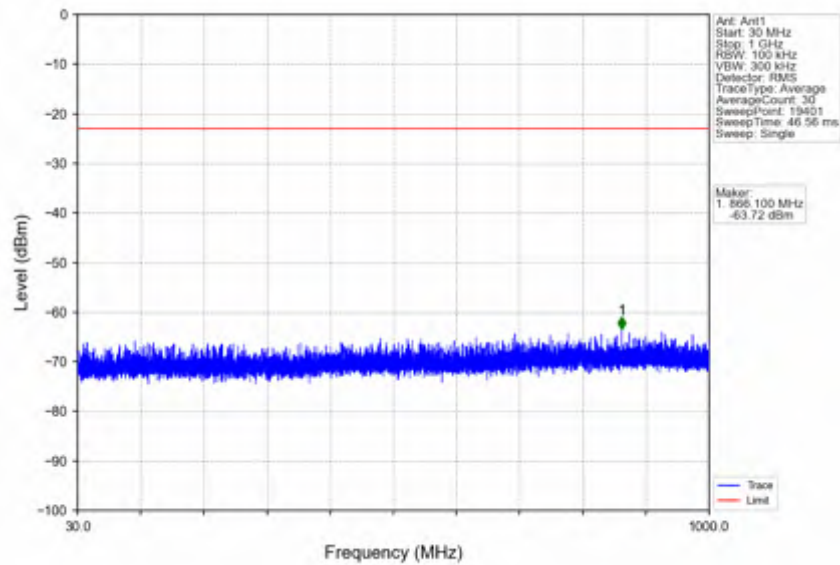
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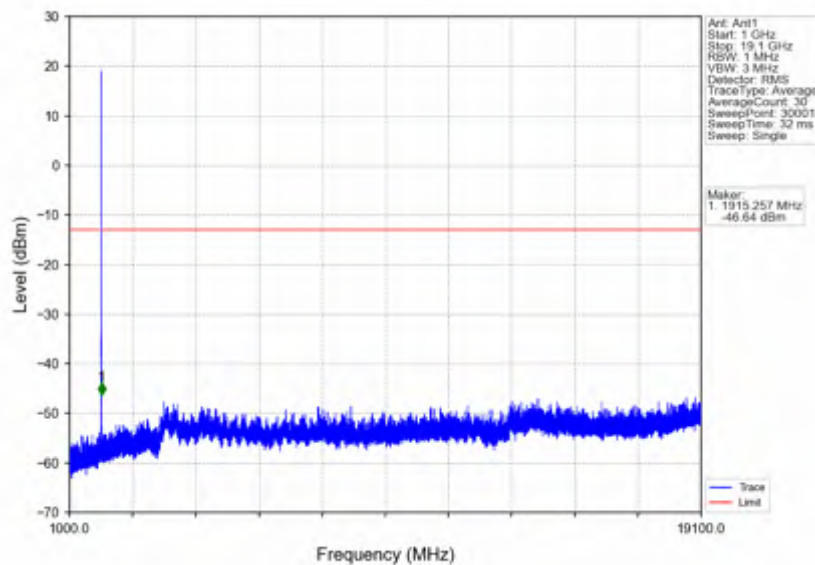
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1907.5MHz_Edge_1RB_Right



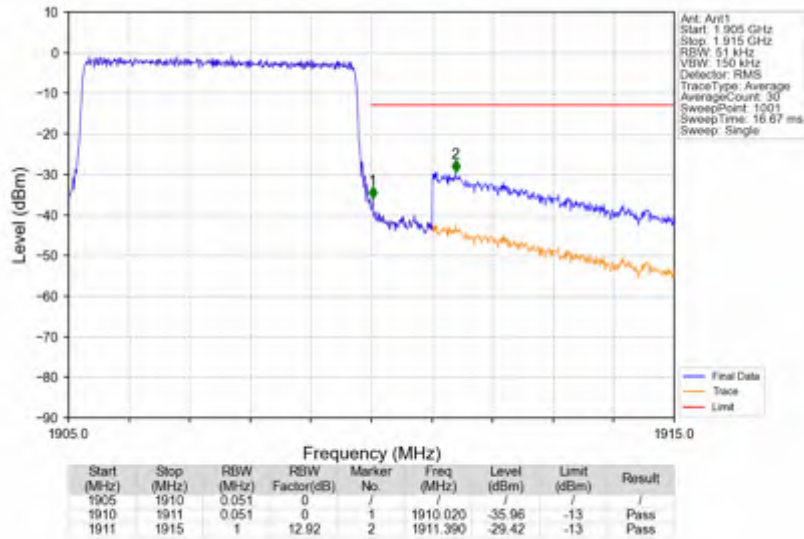
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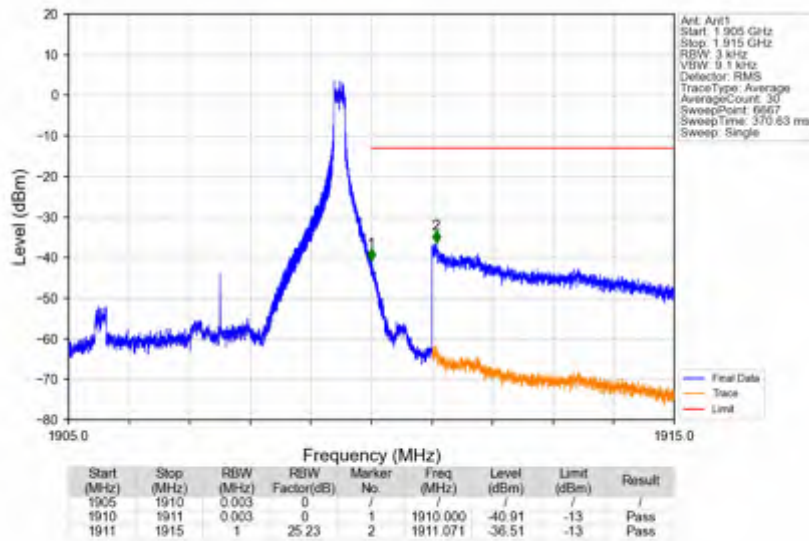
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1907.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1907.5MHz_Inner_1RB_Right



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1.2 15k_SISO_10MHz_NTNV

1.2.1 Test Result

5G NR n2 SCS=15kHz SISO 10MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	1855	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
1905	Inner_1RB_Right	Refer To Test Graph			Pass	
	Edge_1RB_Left	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	
DFT-s-OFDM QPSK	1855	Inner_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
	1880	Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Right	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
CP-OFDM QPSK	1855	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
1905	Inner_1RB_Right	Refer To Test Graph			Pass	
	Inner_1RB_Left	Refer To Test Graph			Pass	
	Inner_1RB_Right	Refer To Test Graph			Pass	

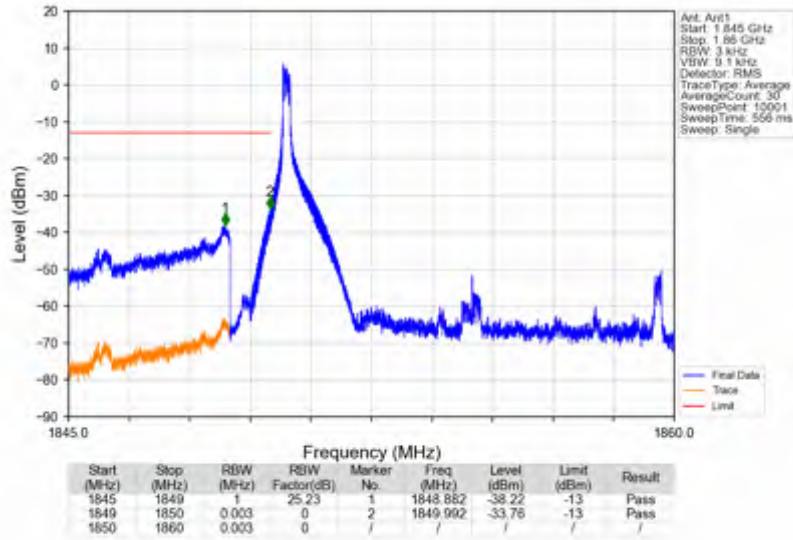


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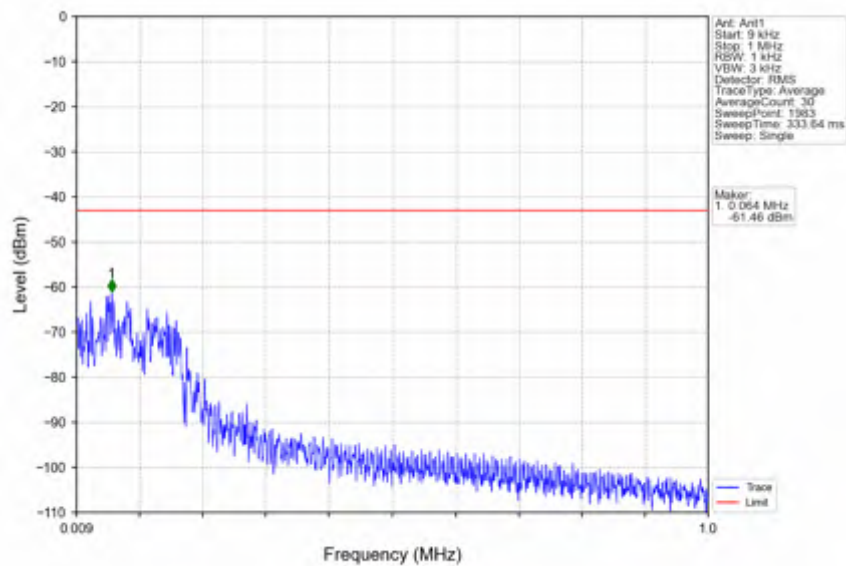
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1.2.2 Test Graph

n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_1855MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_1855MHz_Edge_1RB_Left

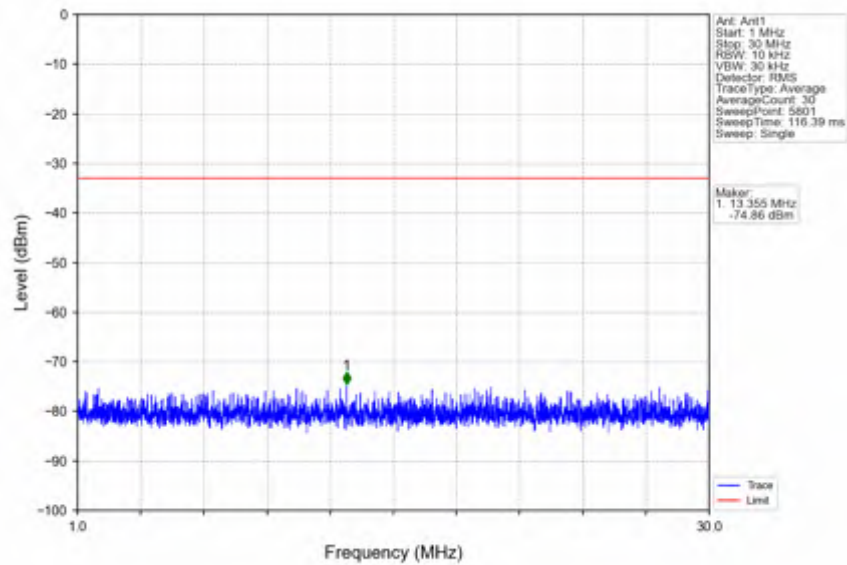


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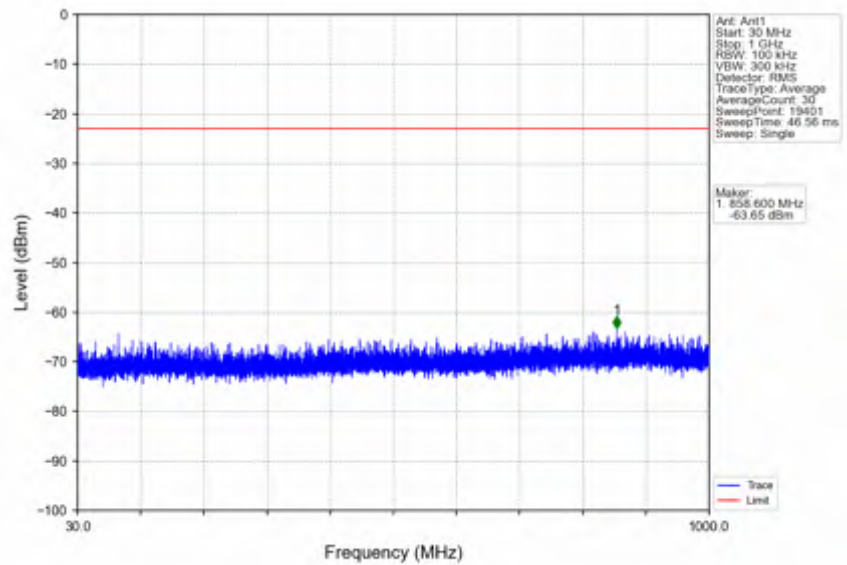
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1855MHz_Edge_1RB_Left



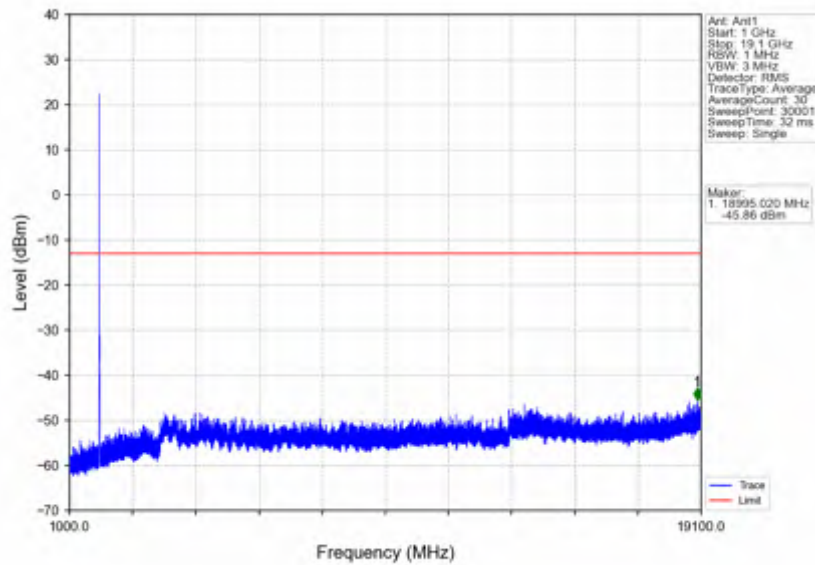
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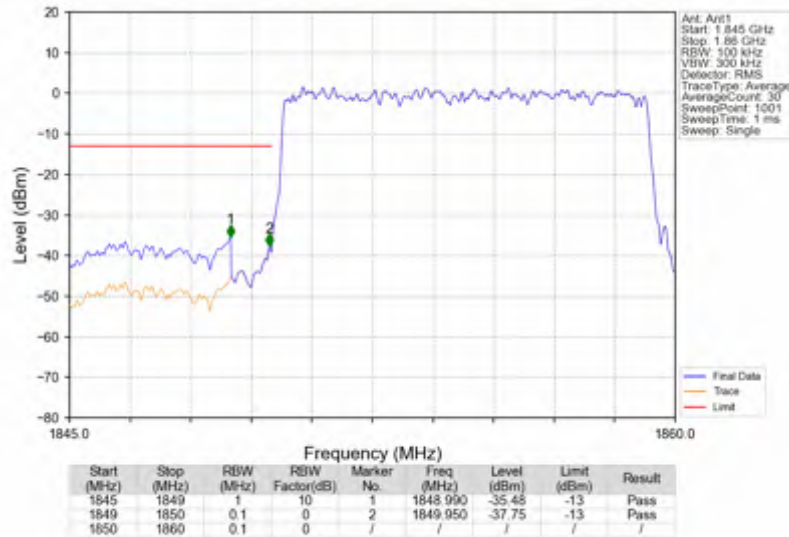
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1855MHz_Outer_Full



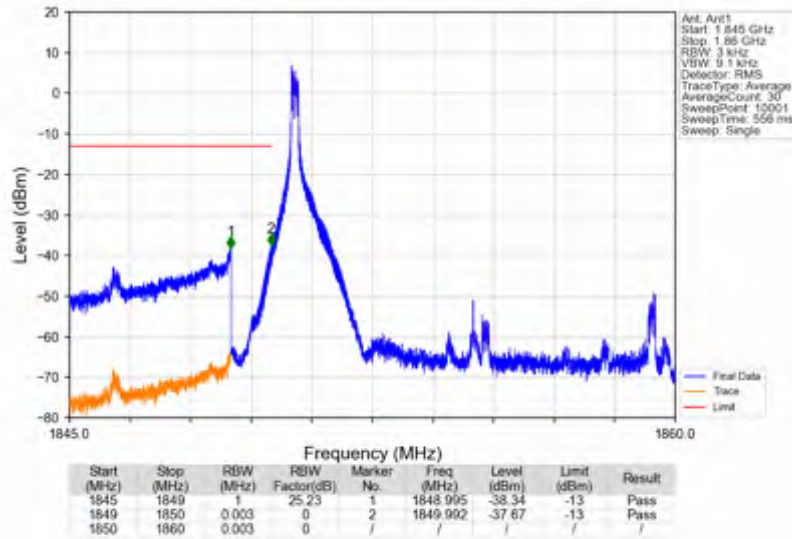
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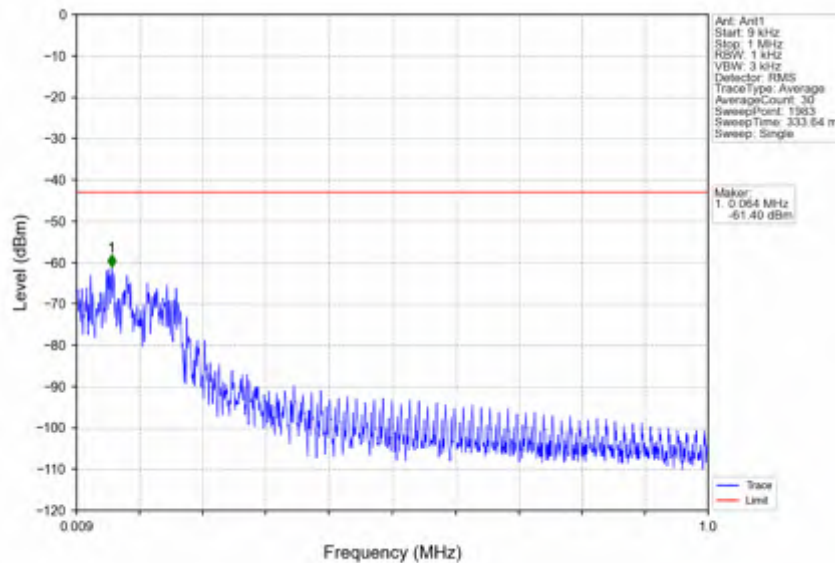
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Edge_1RB_Left

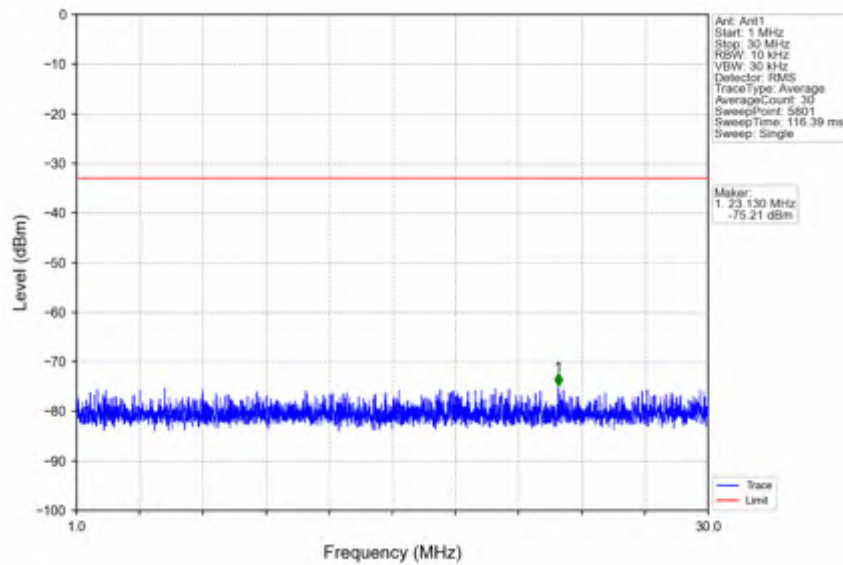


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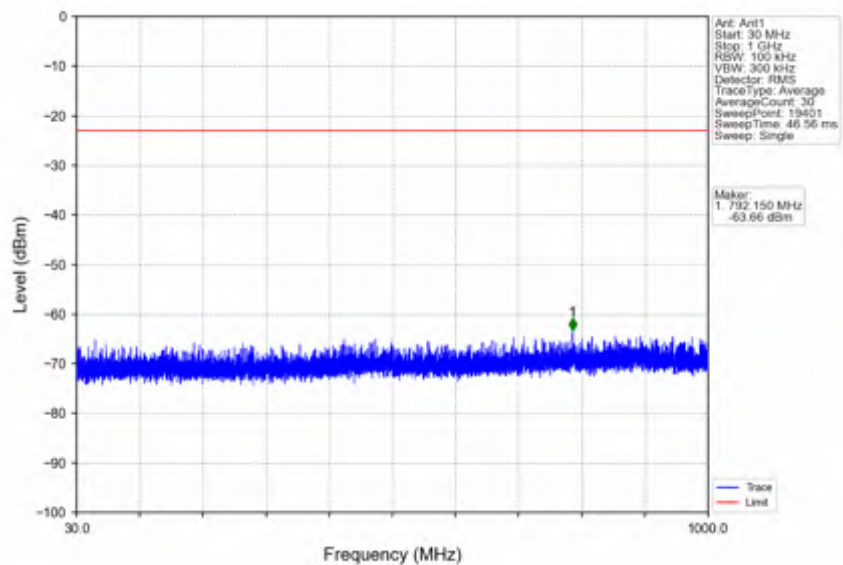
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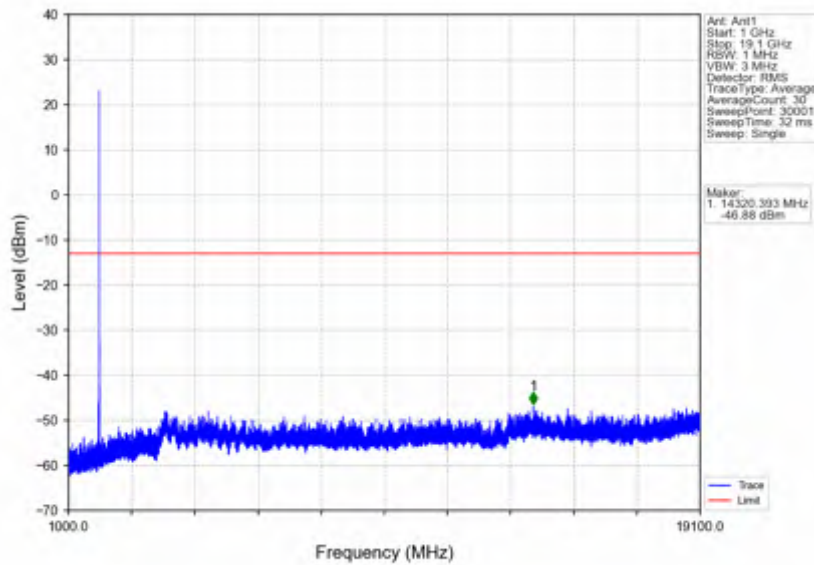
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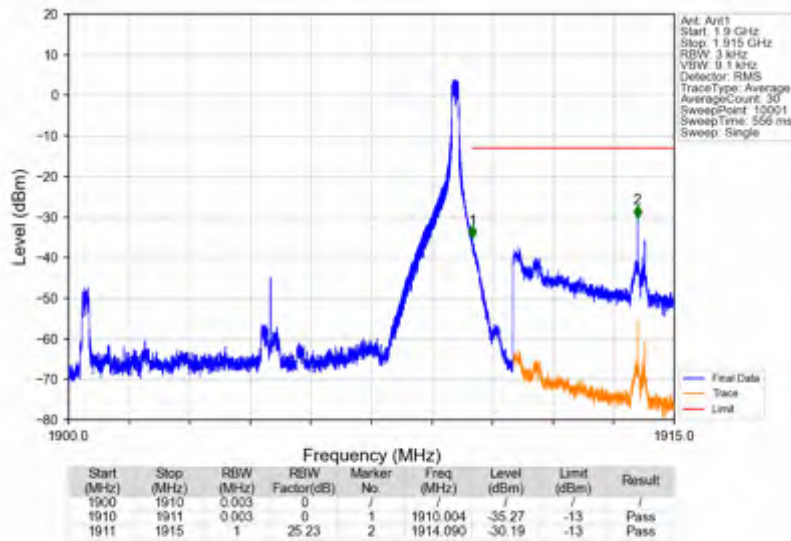
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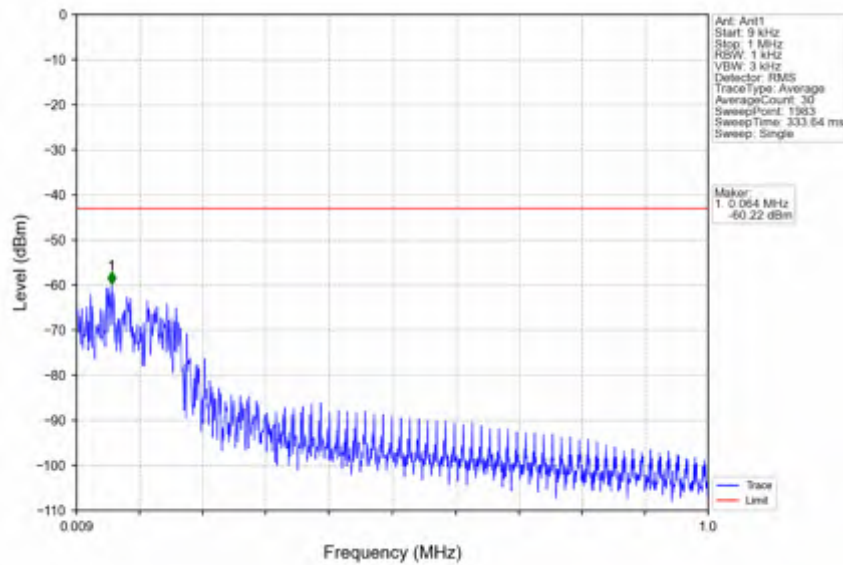
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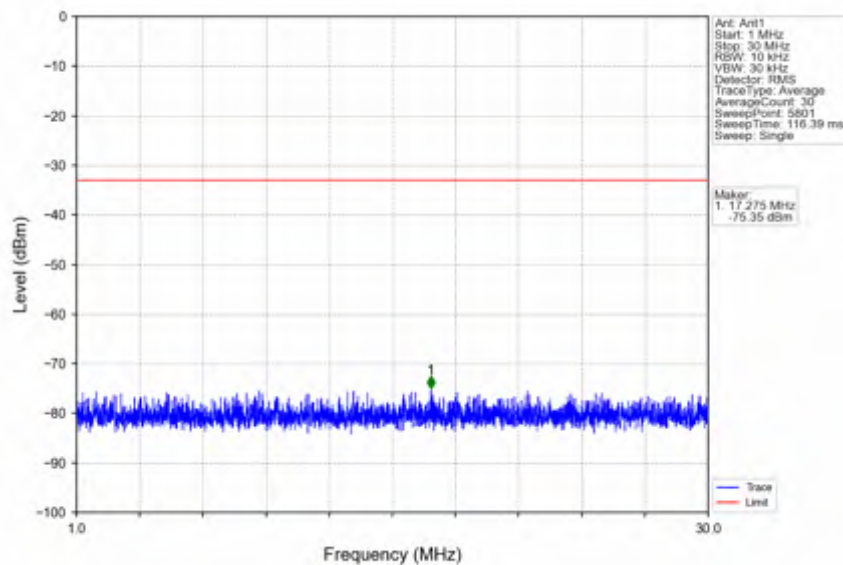
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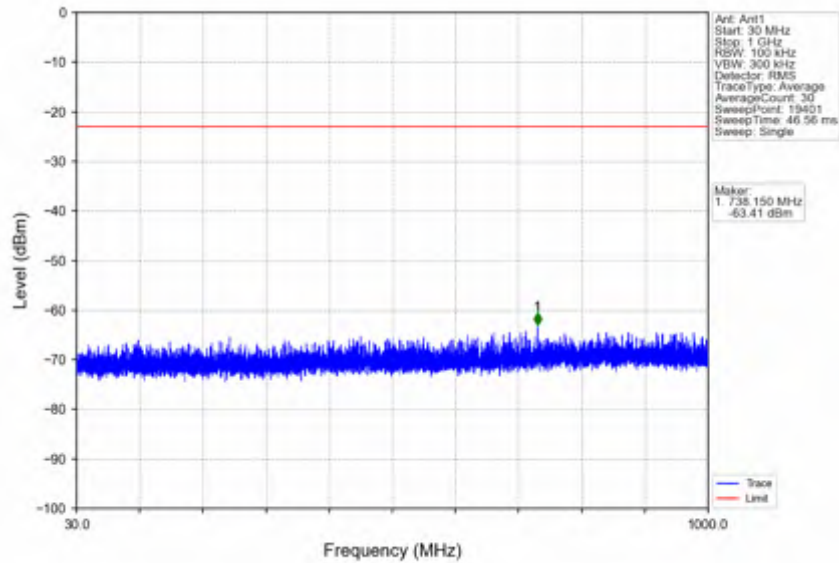
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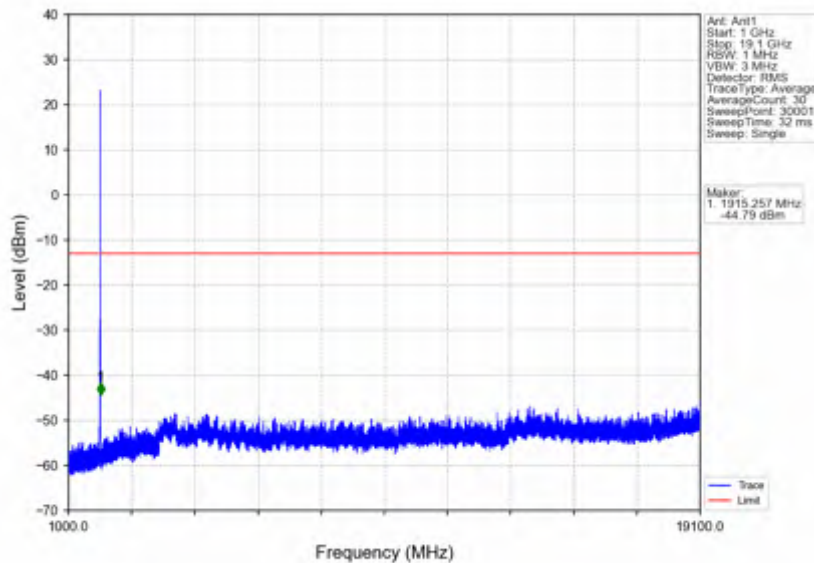
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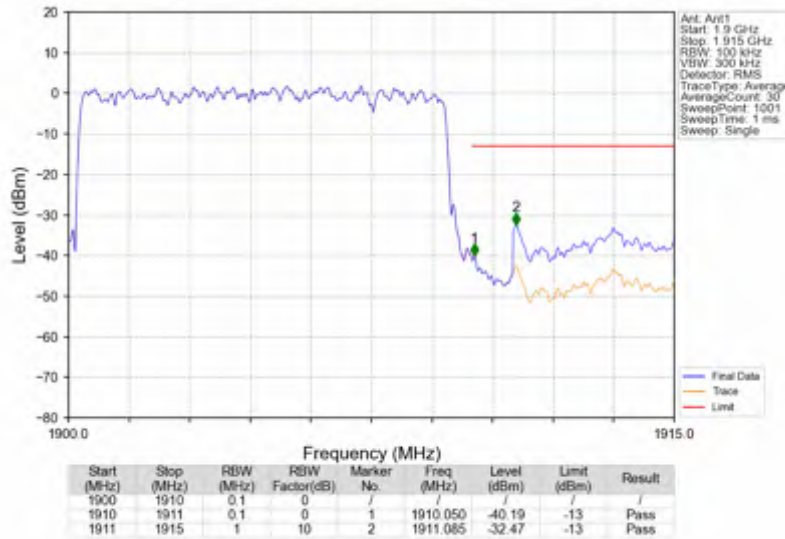
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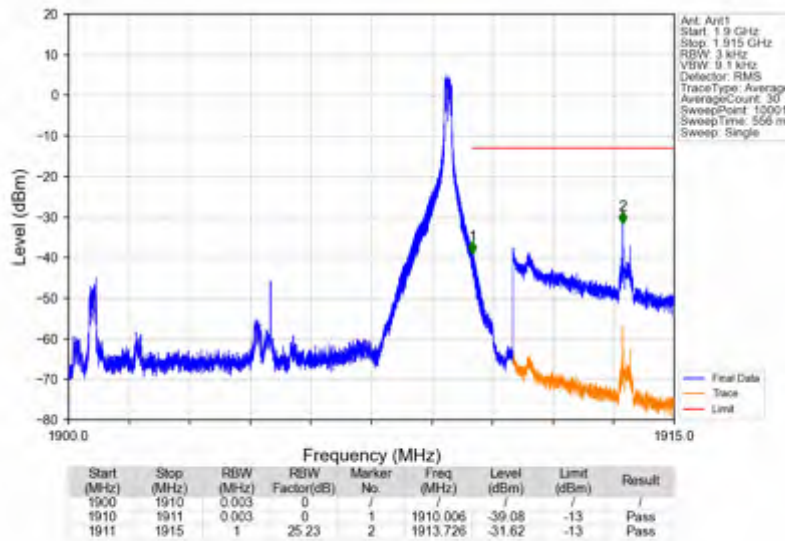
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Inner_1RB_Right



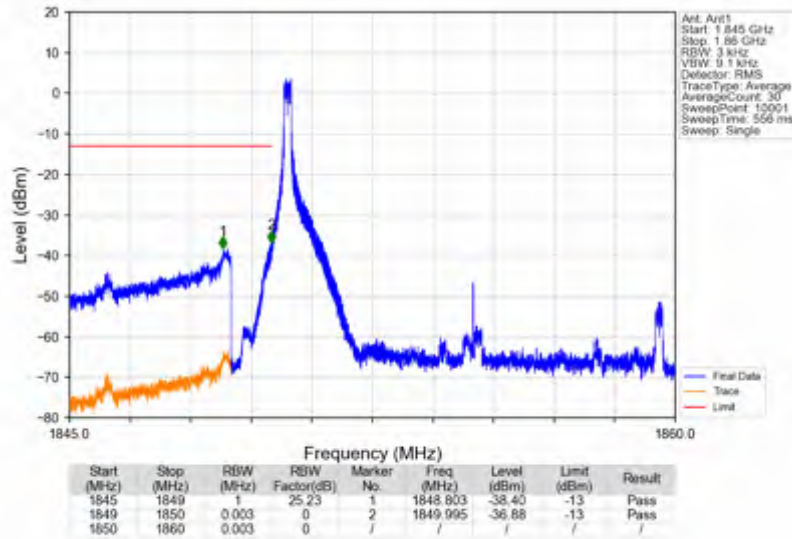
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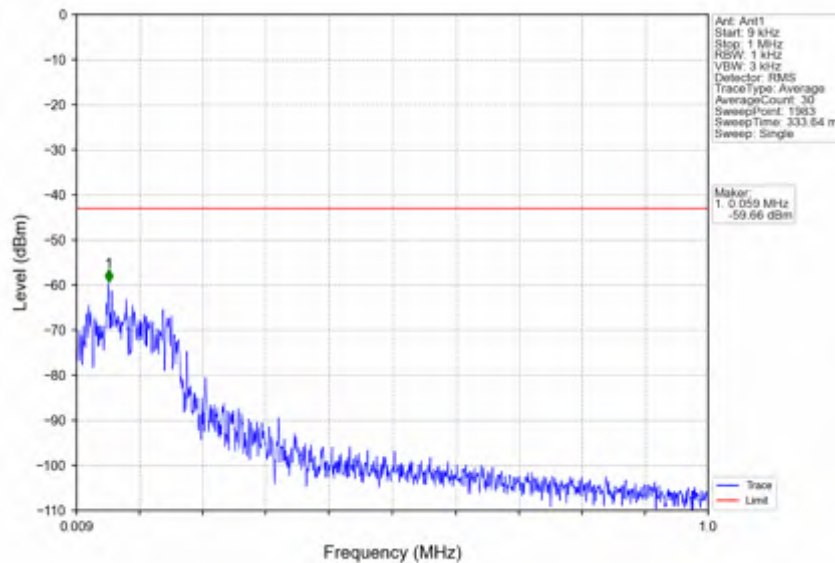
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n2_15kHz_SISO_NTV_10MHz_DFT-s-OFDM QPSK_1855MHz_Edge_1RB_Left



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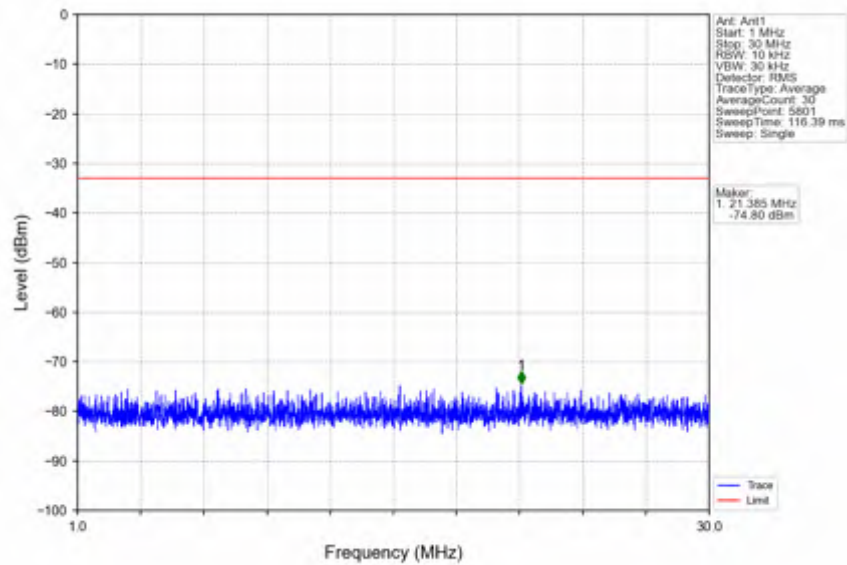


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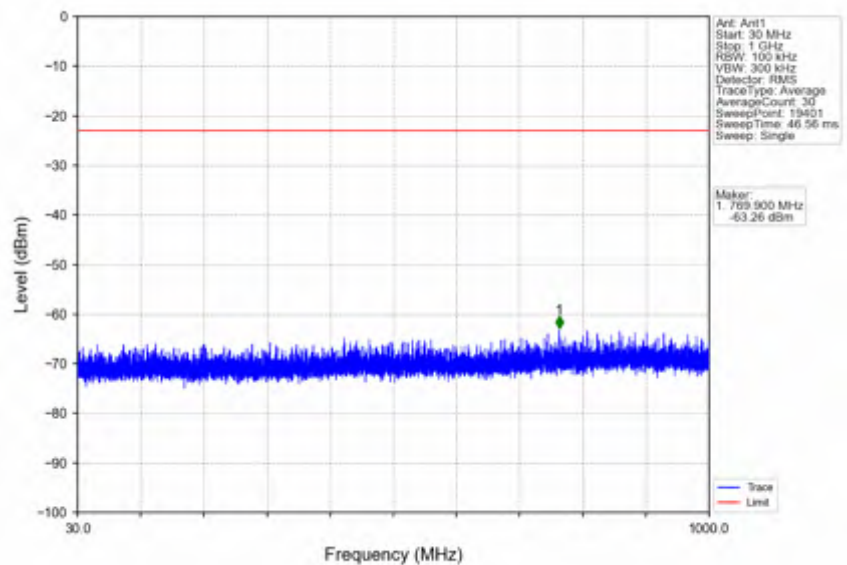
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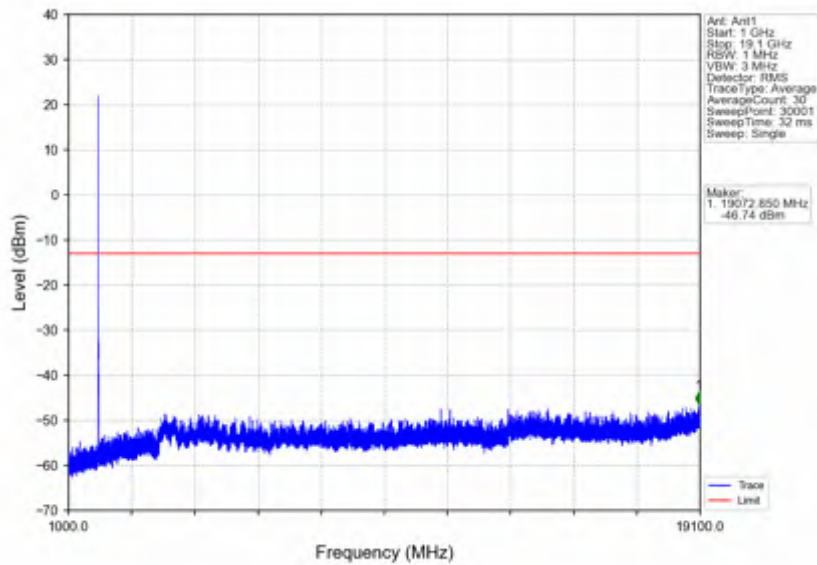
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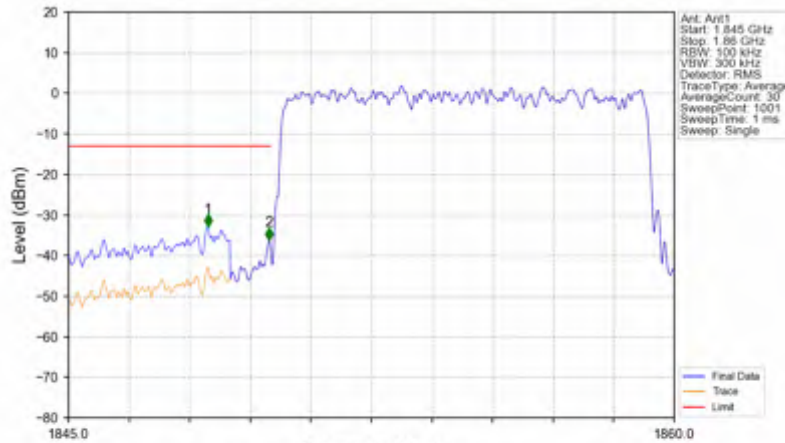
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n2_15kHz_SISO_NTV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	10	1	1848.450	-32.89	-13	Pass
1849	1850	0.1	0	2	1849.965	-36.20	-13	Pass
1850	1860	0.1	0	/	/	/	/	/

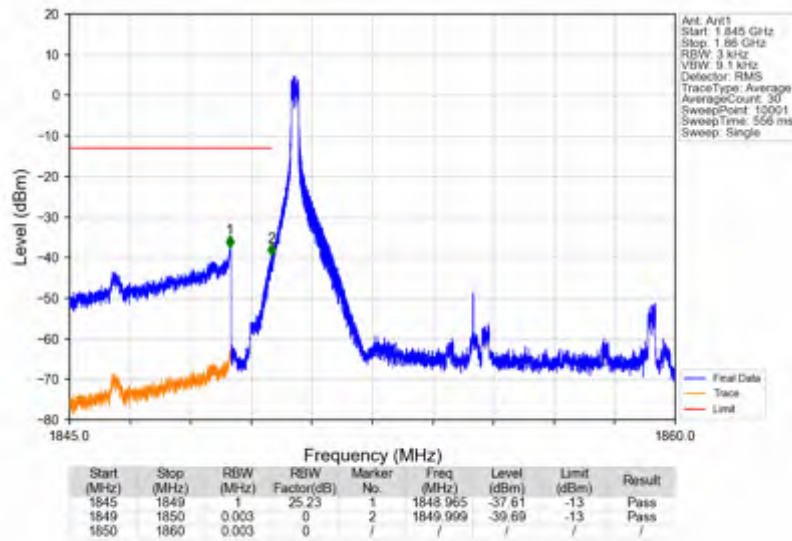


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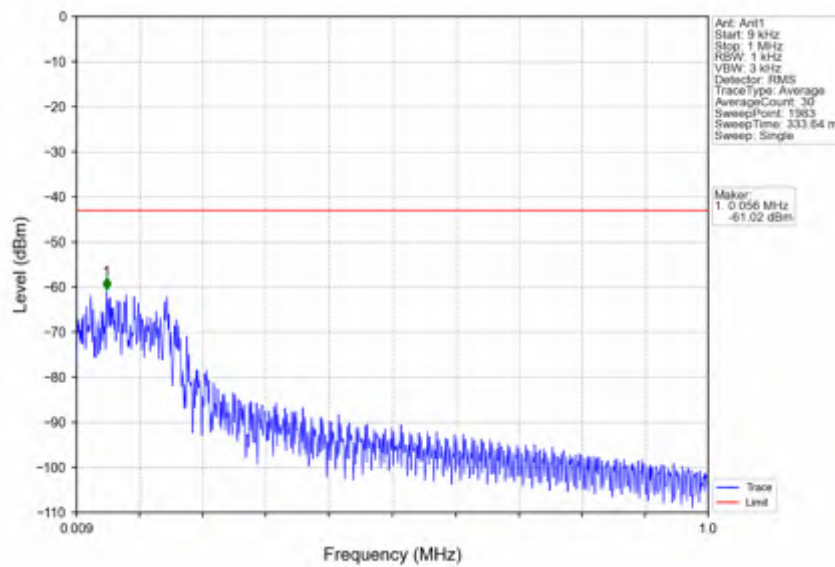
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left

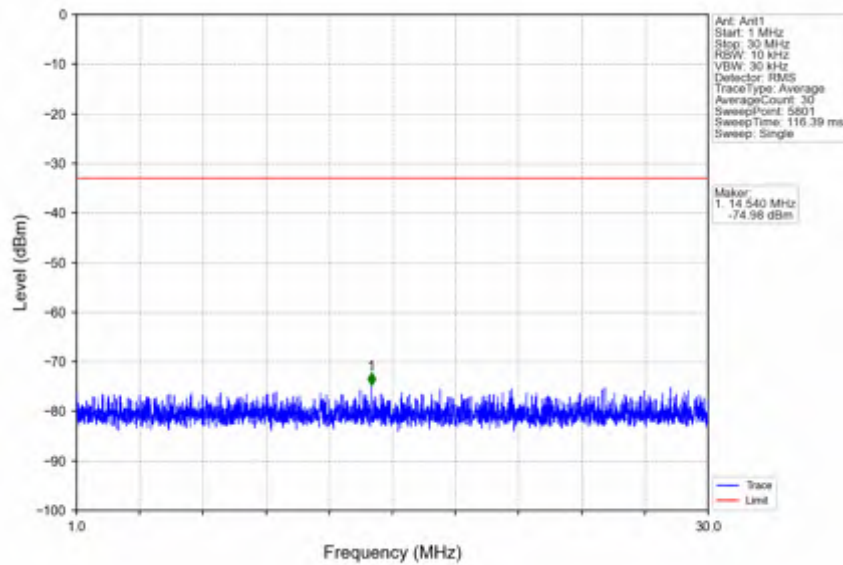


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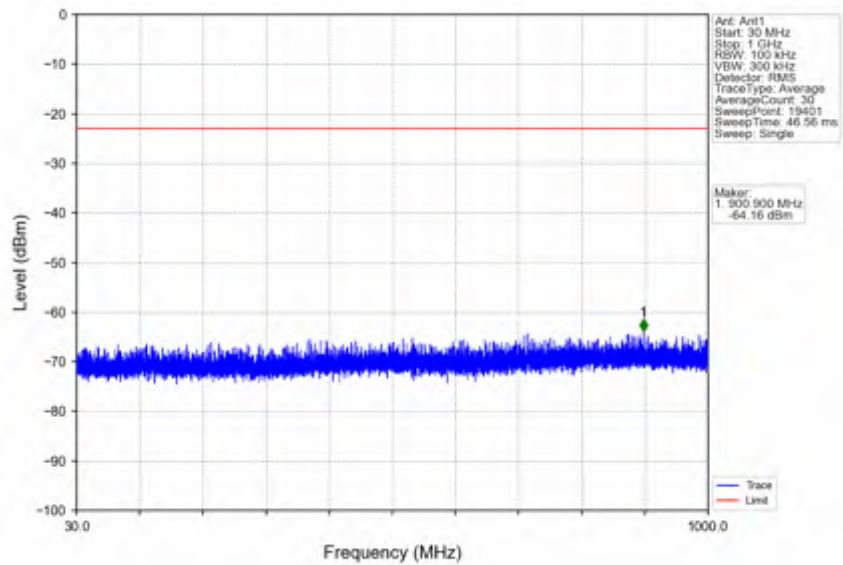
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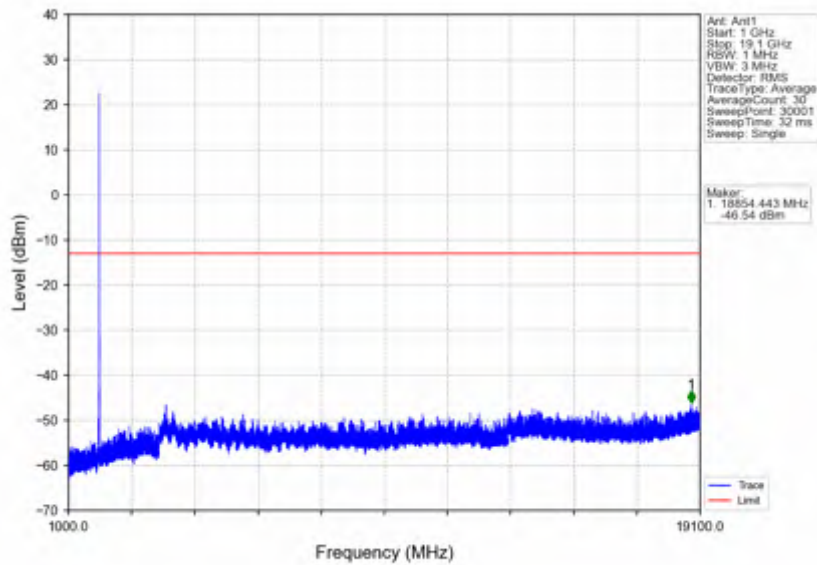


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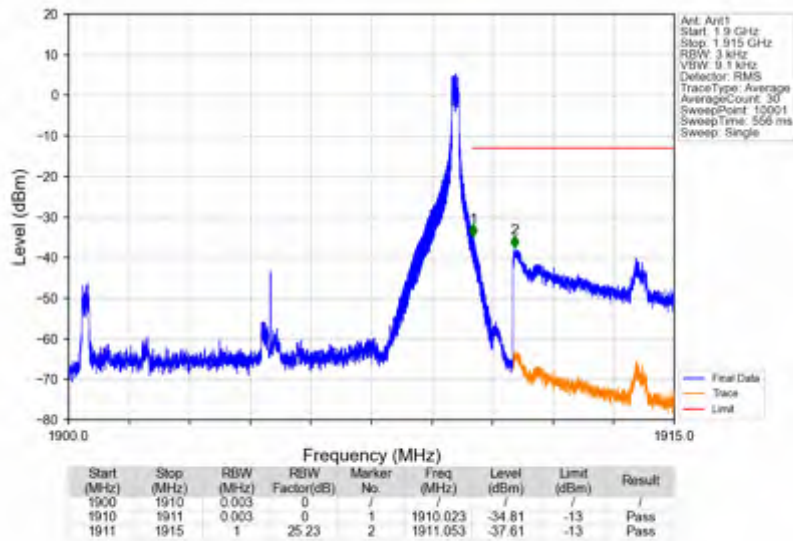
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Edge_1RB_Right



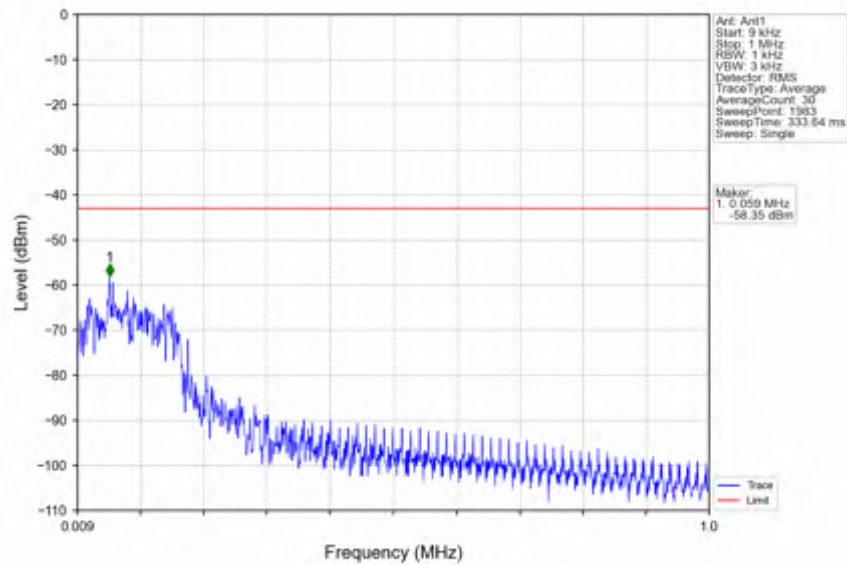
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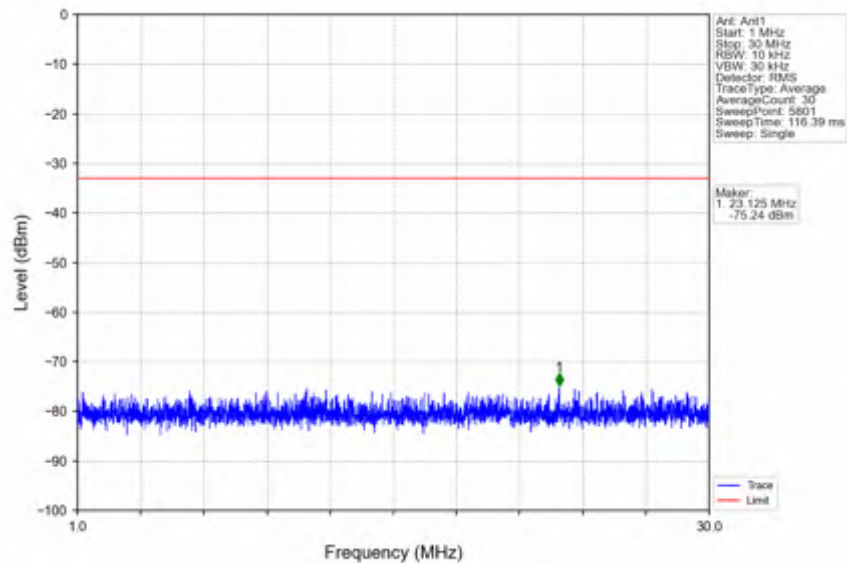
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Edge_1RB_Right



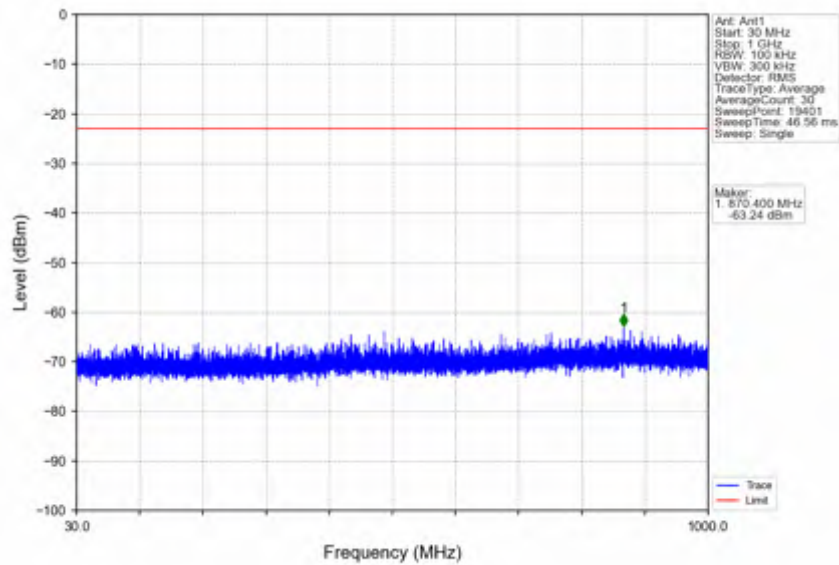
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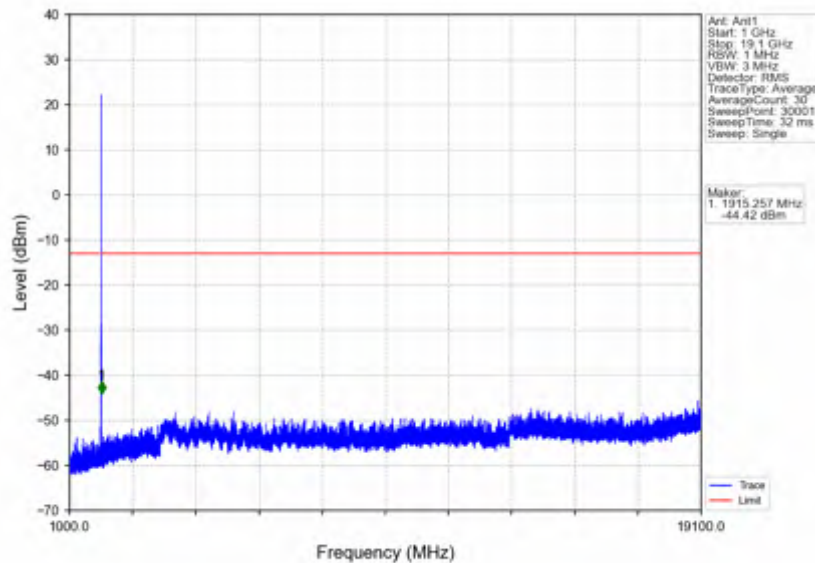
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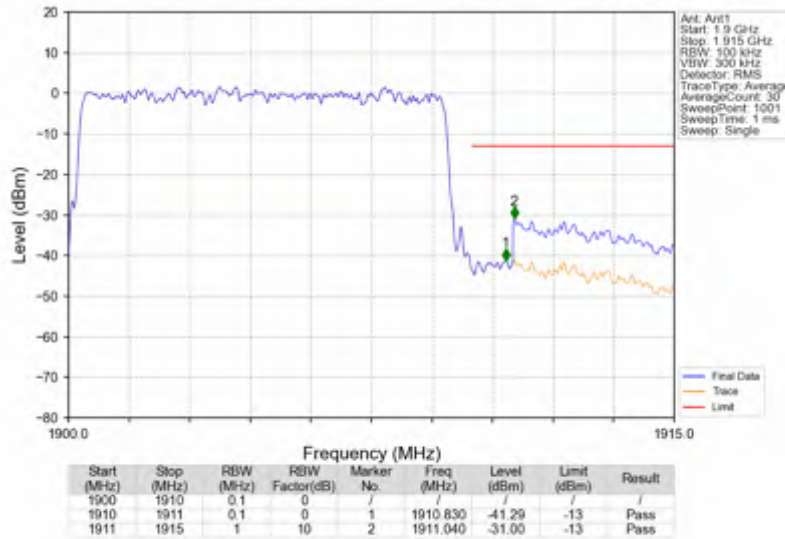
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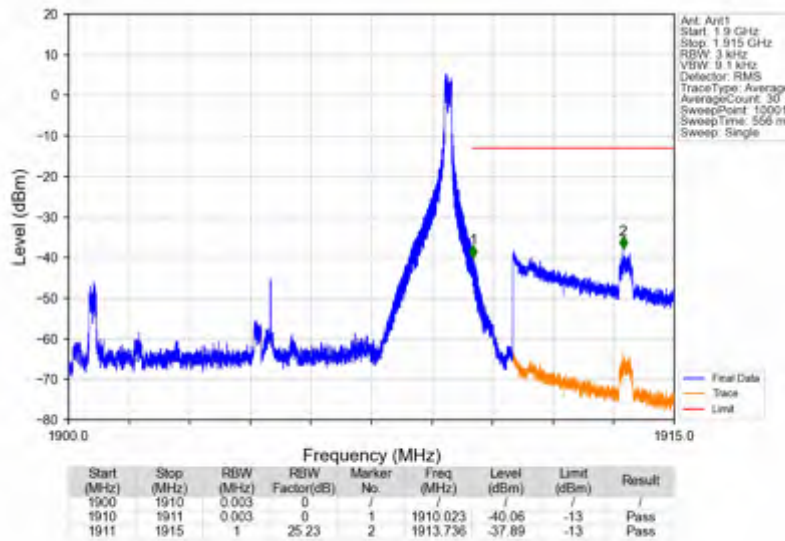
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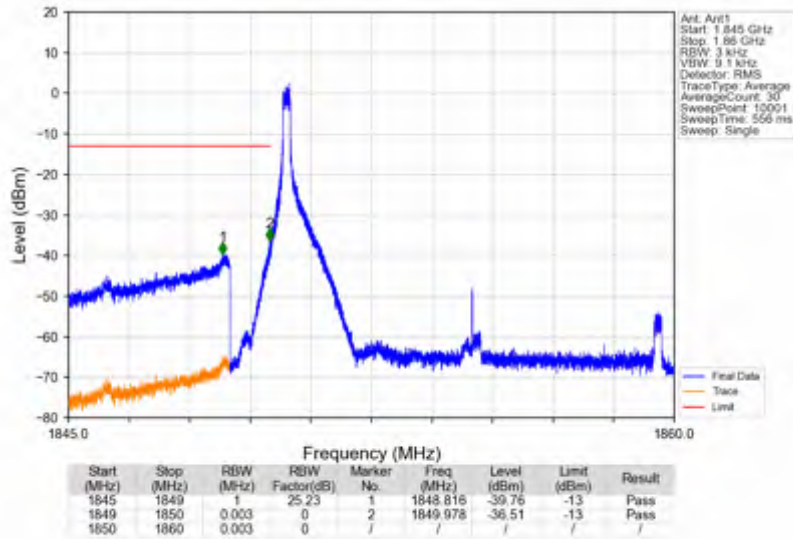


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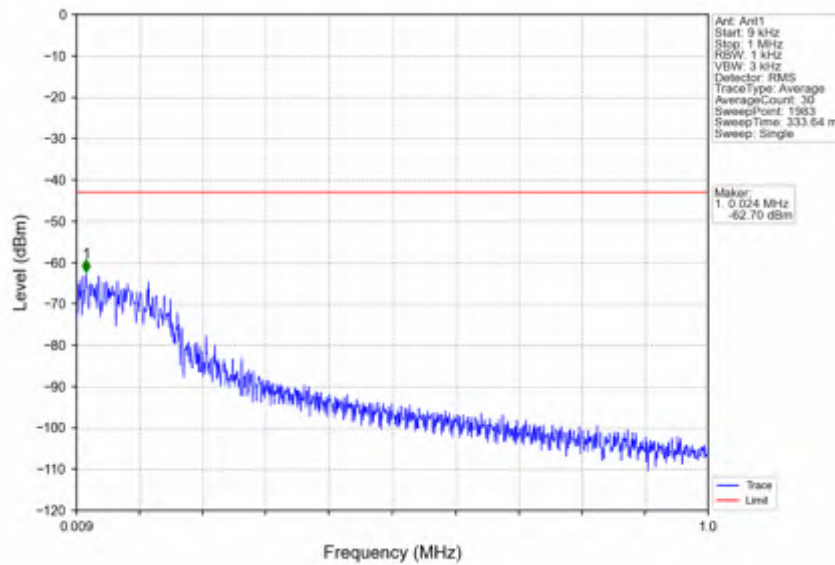
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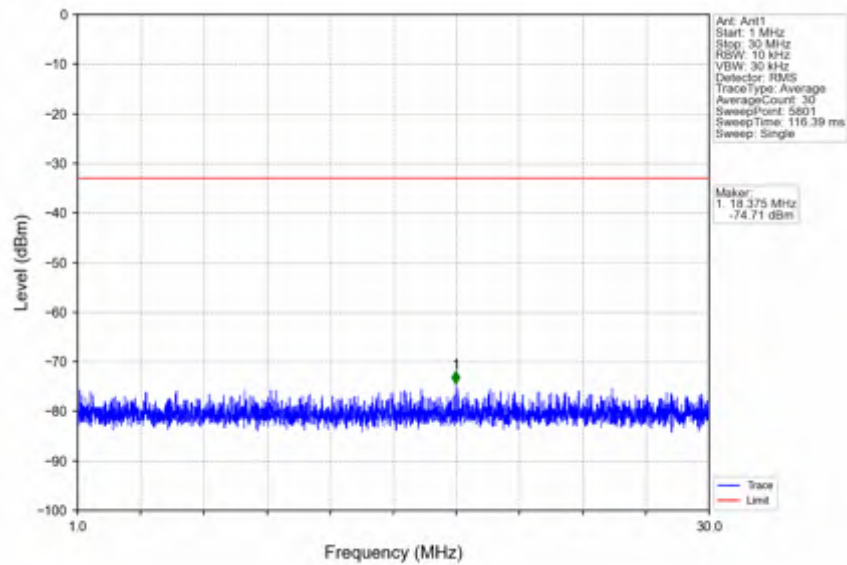


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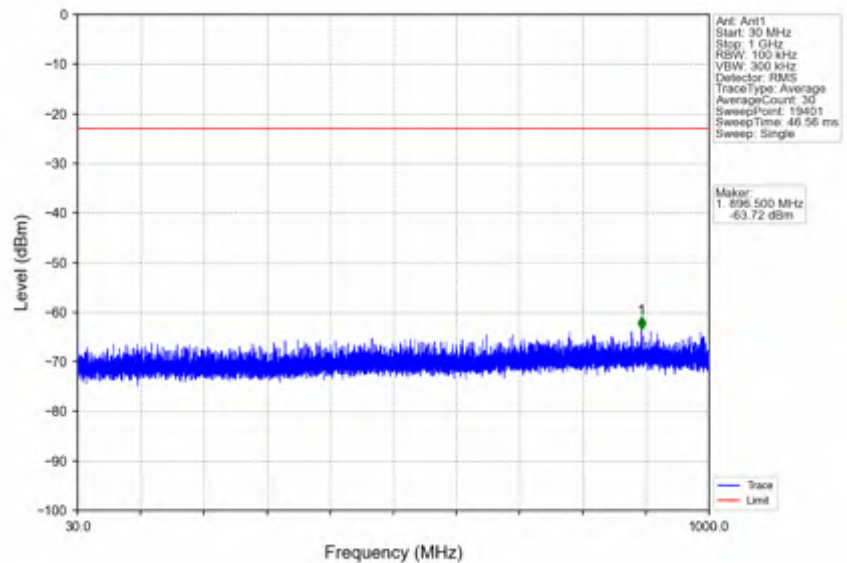
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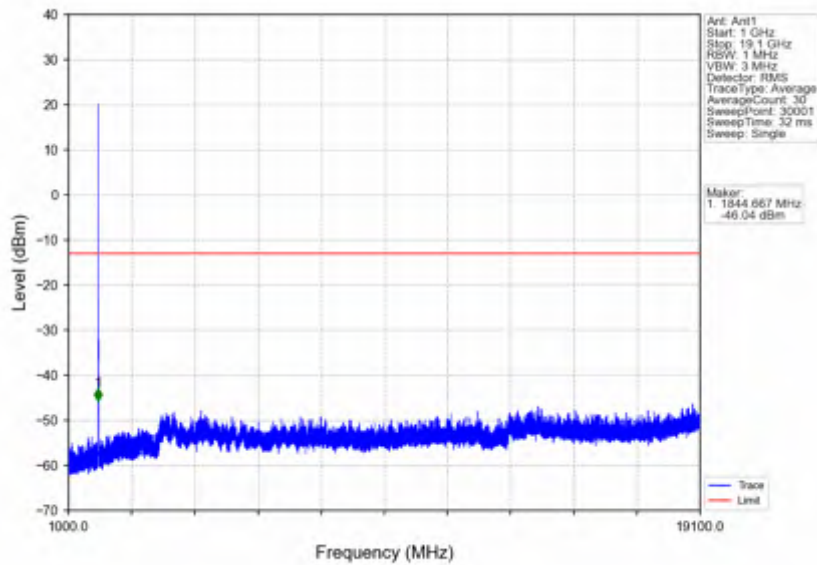
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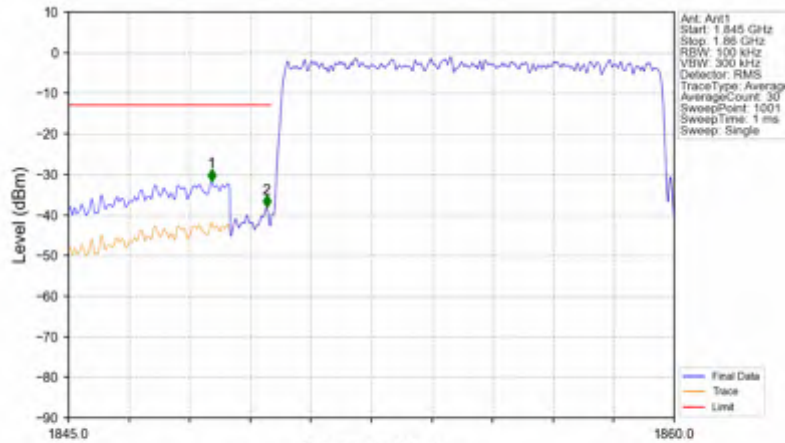
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	10	1	1848.540	-31.71	-13	Pass
1849	1850	0.1	0	2	1849.905	-38.18	-13	Pass
1850	1860	0.1	0	/	/	/	/	/



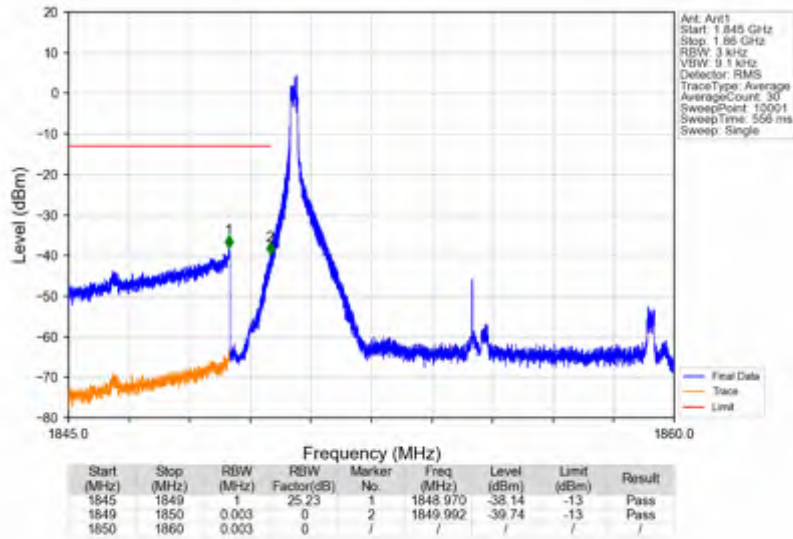
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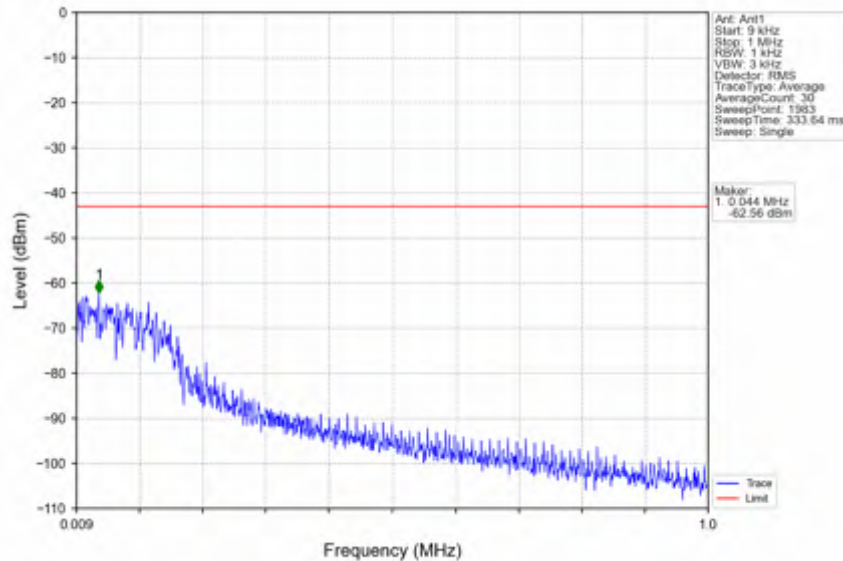
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1880MHz_Edge_1RB_Left

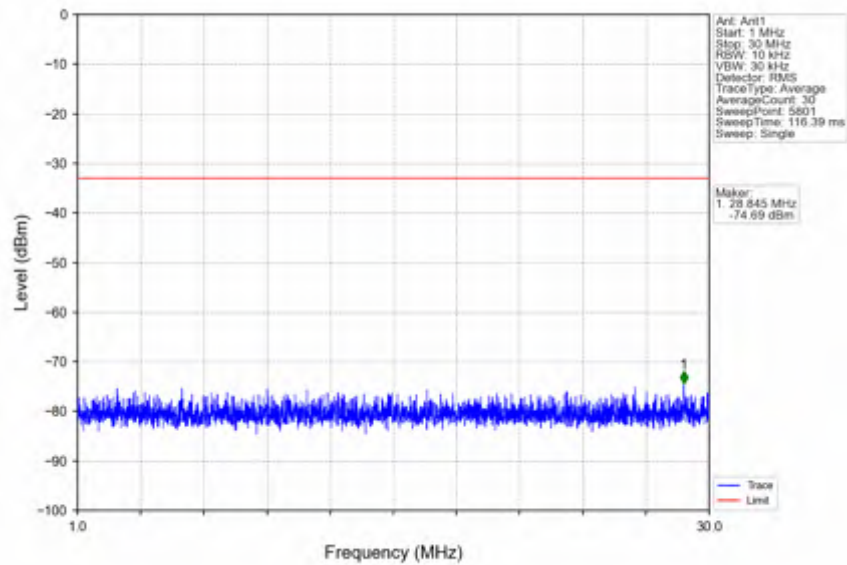


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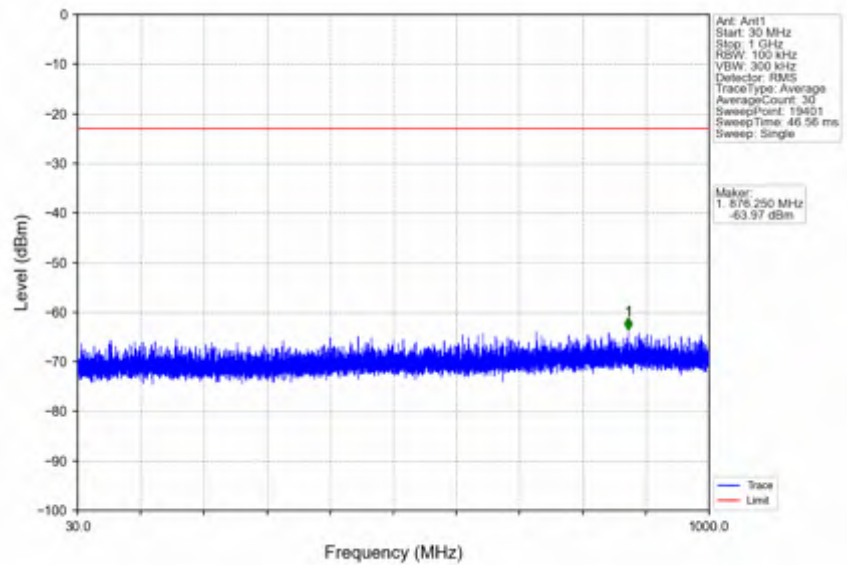
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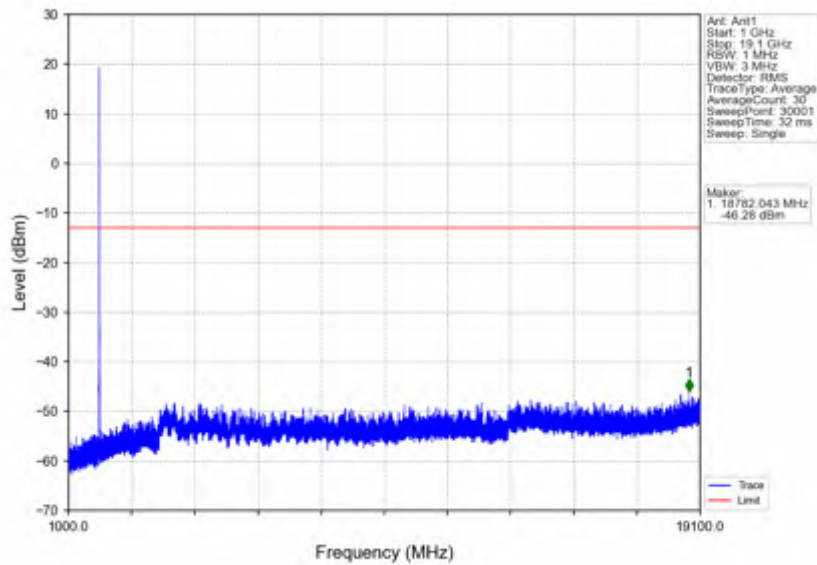
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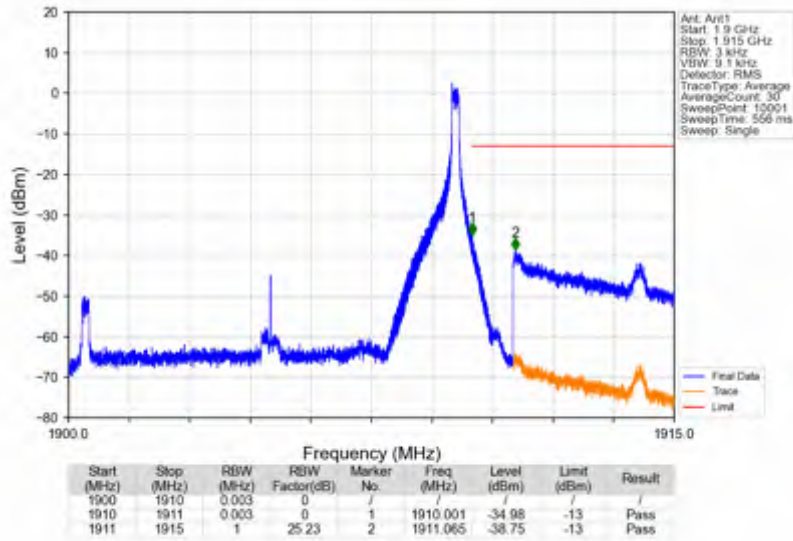
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Edge_1RB_Right



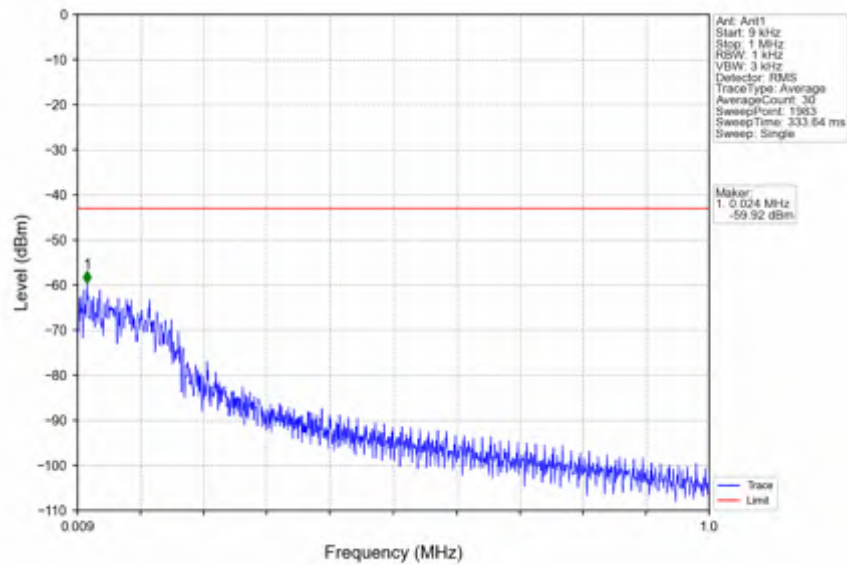
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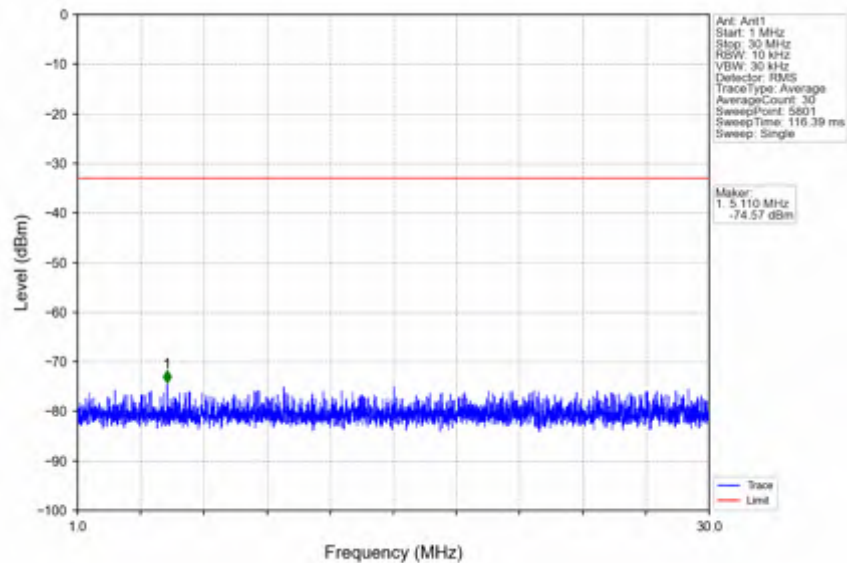
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Edge_1RB_Right



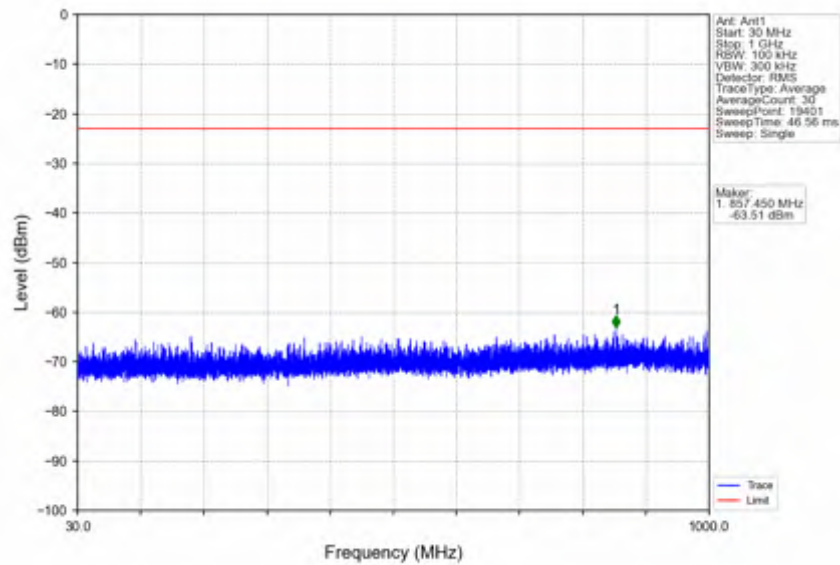
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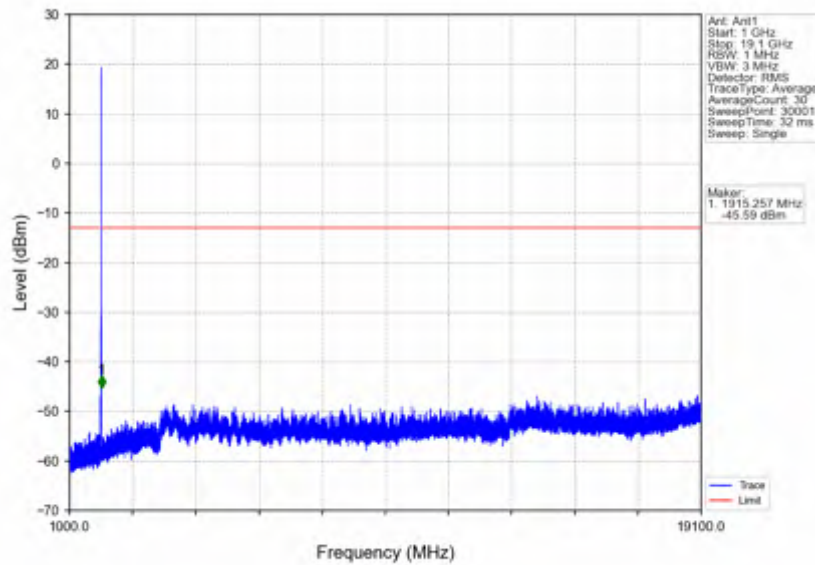
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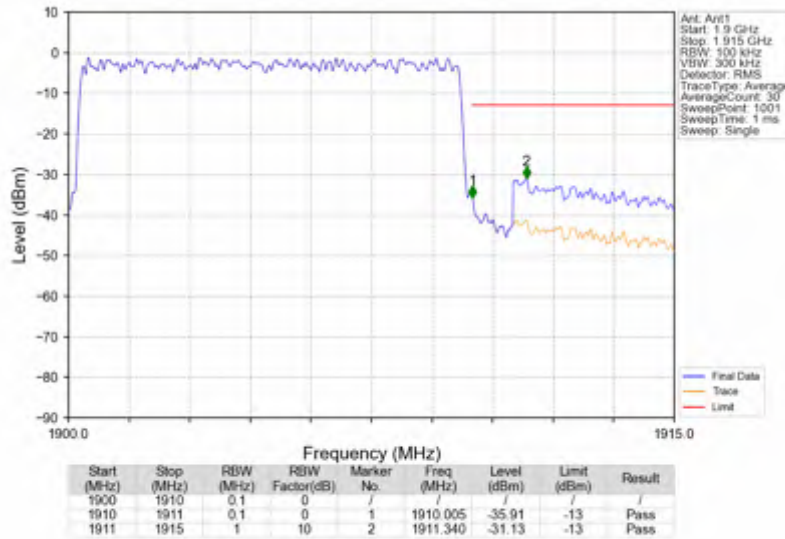
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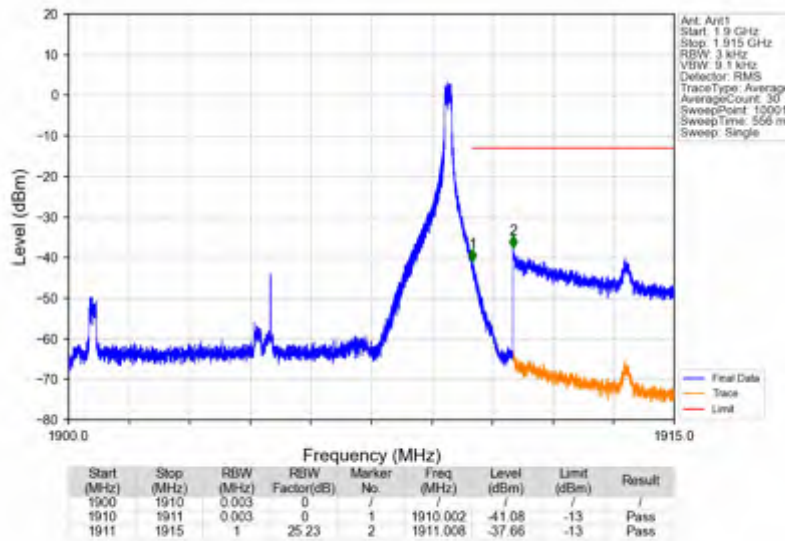
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Inner_1RB_Right



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1.3 15k_SISO_15MHz_NTNV

1.3.1 Test Result

5G NR n2 SCS=15kHz SISO 15MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	1857.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	1902.5	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	1857.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	1902.5	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	1857.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	1902.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Right	Refer To Test Graph			Pass



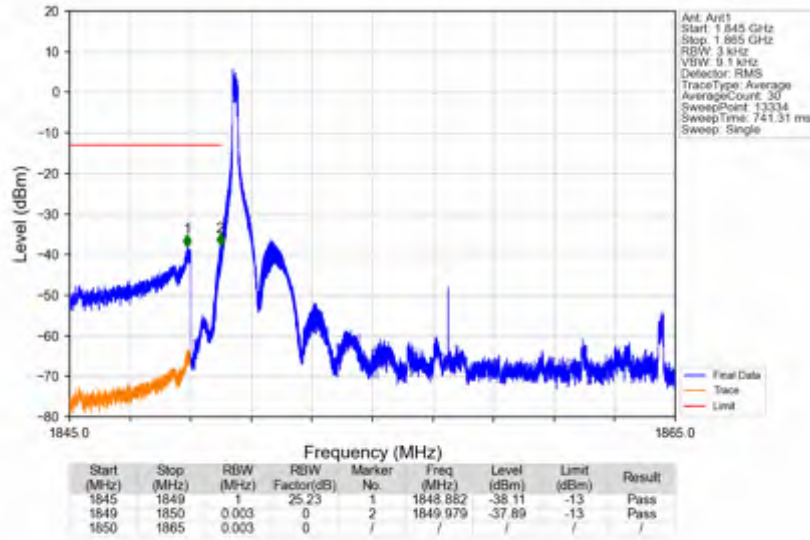
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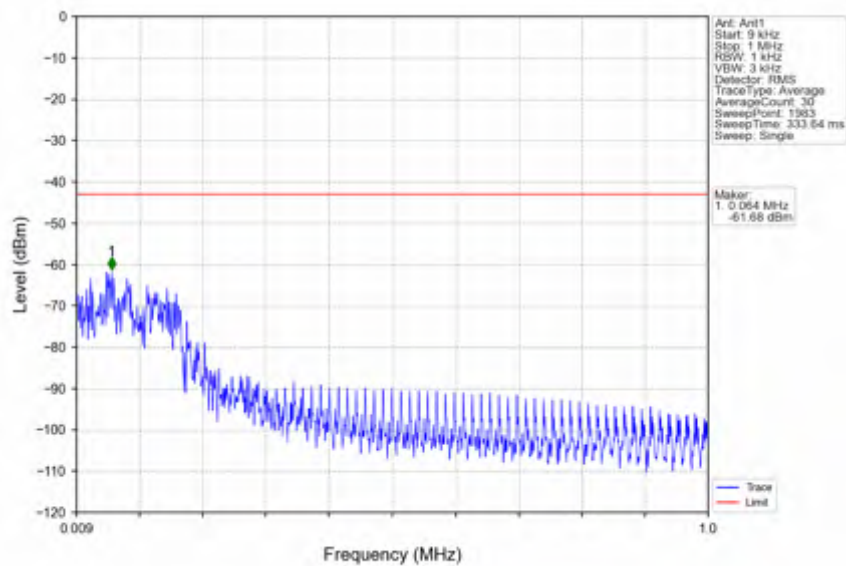
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1.3.2 Test Graph

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n2_15kHz_SISO_NTV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Edge_1RB_Left

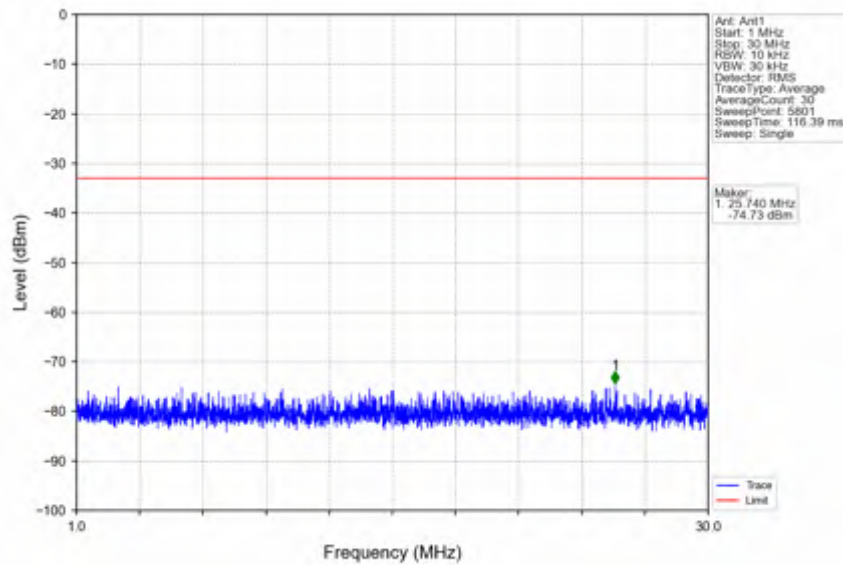


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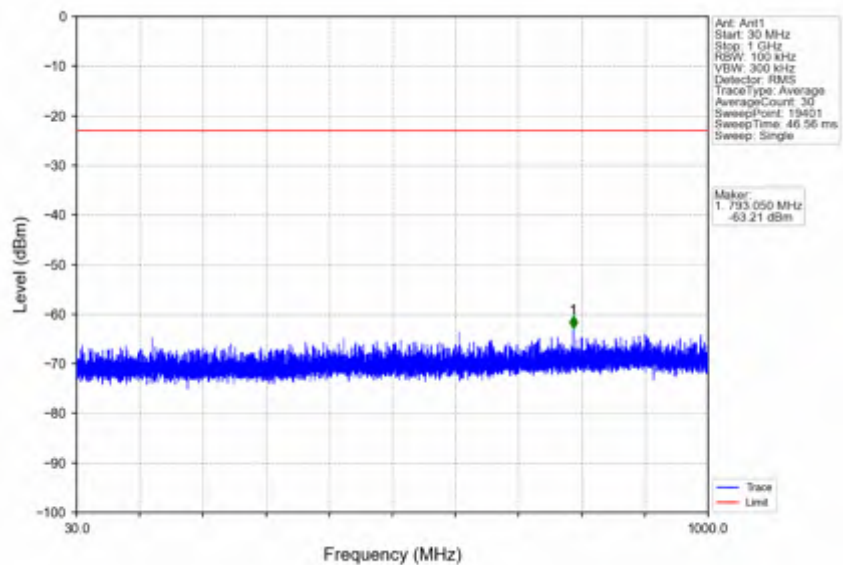
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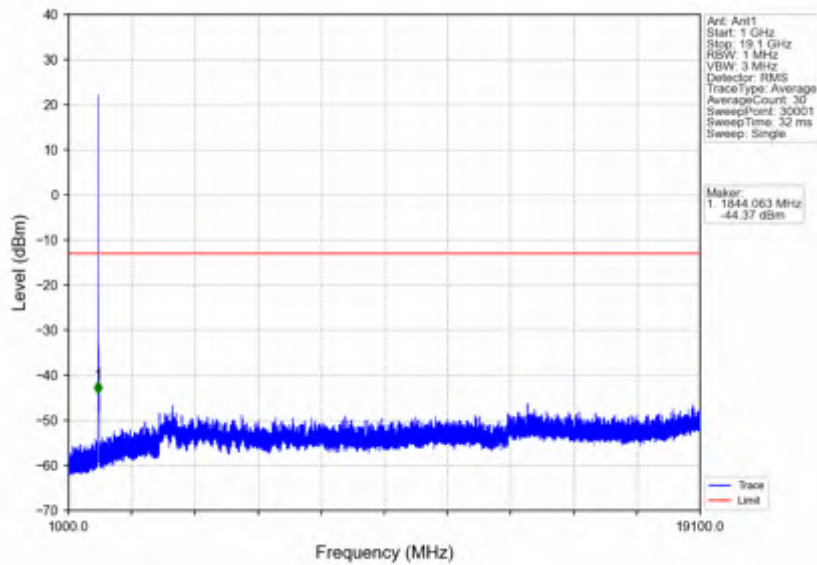
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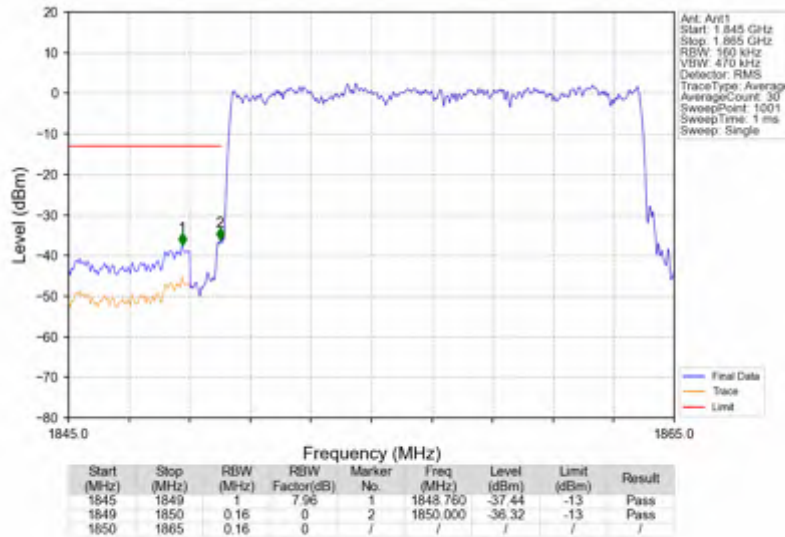
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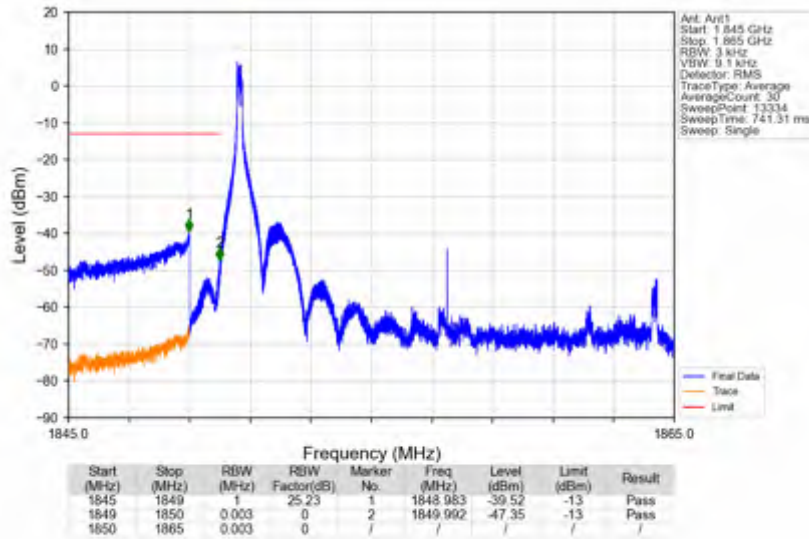
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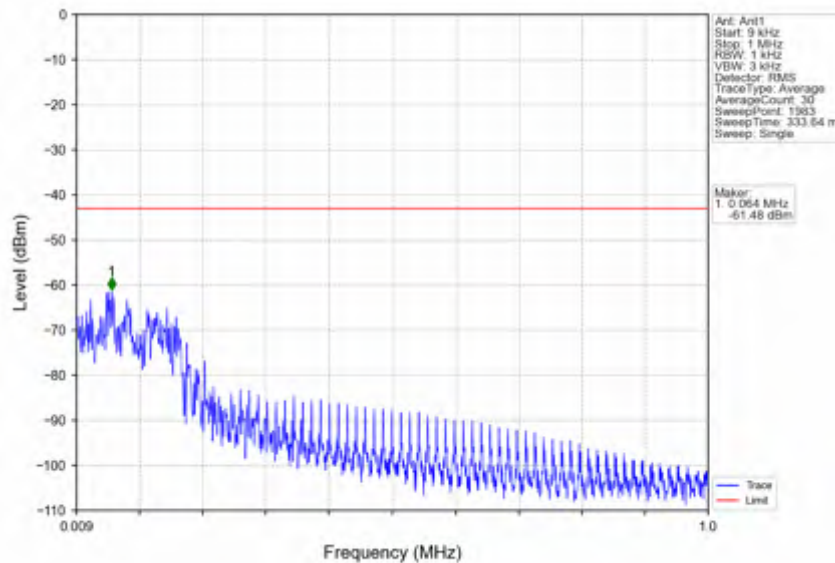
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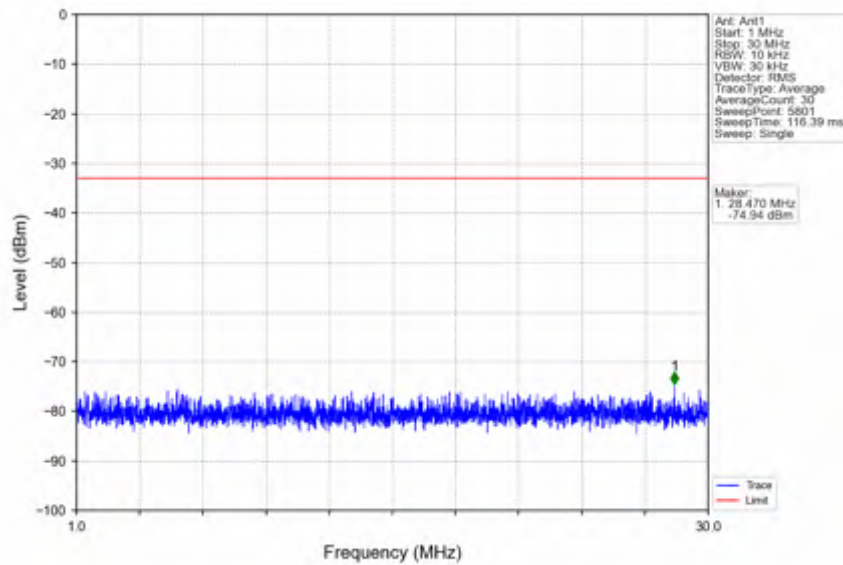


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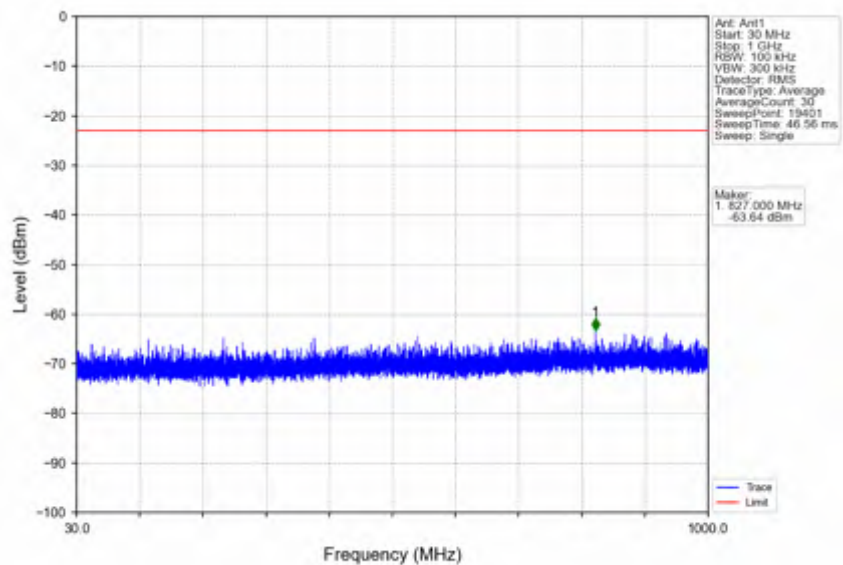
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Edge_1RB_Left



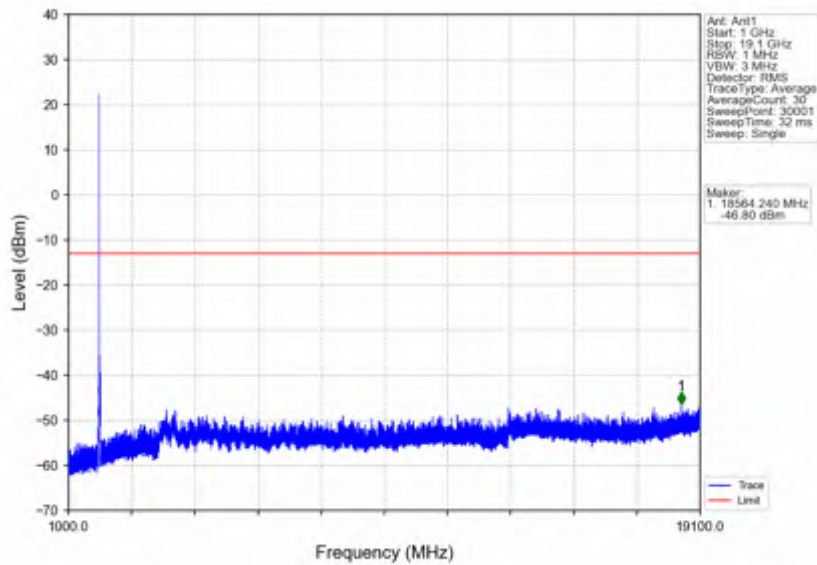
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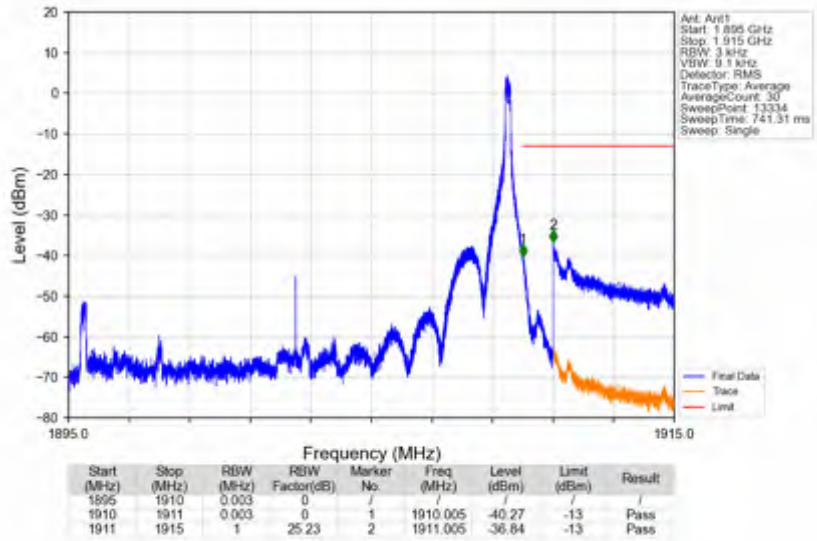
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Edge_1RB_Right

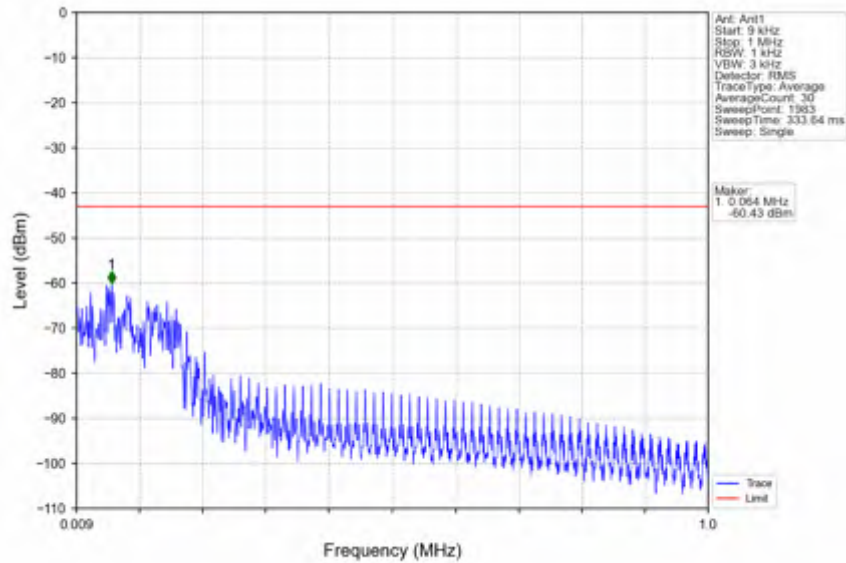


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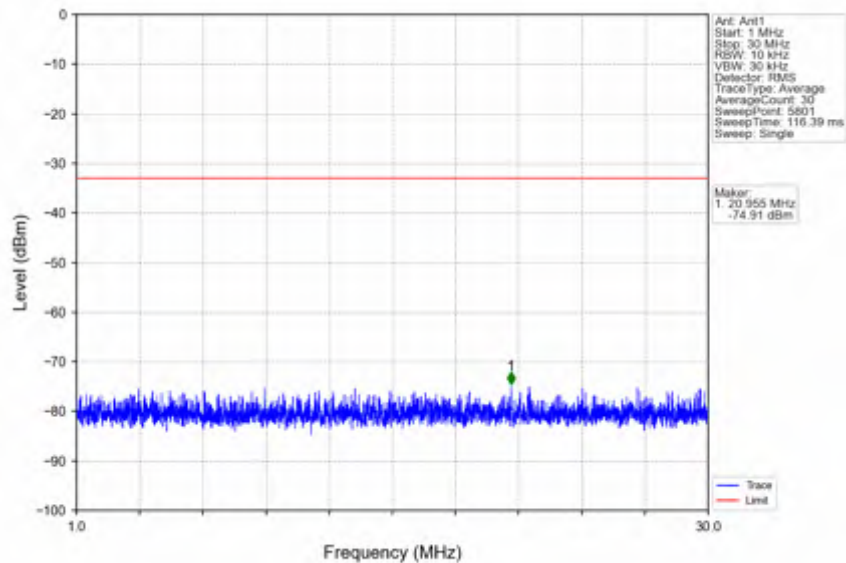
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Edge_1RB_Right



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Edge_1RB_Right

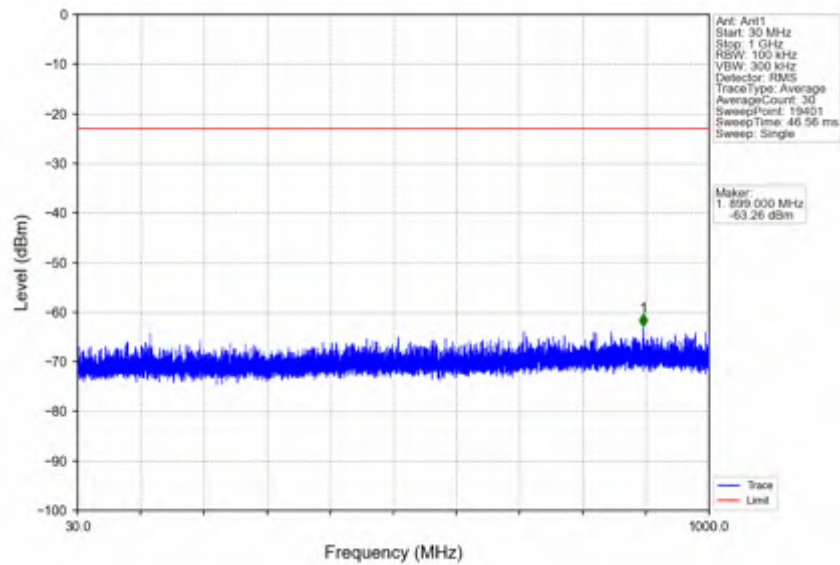


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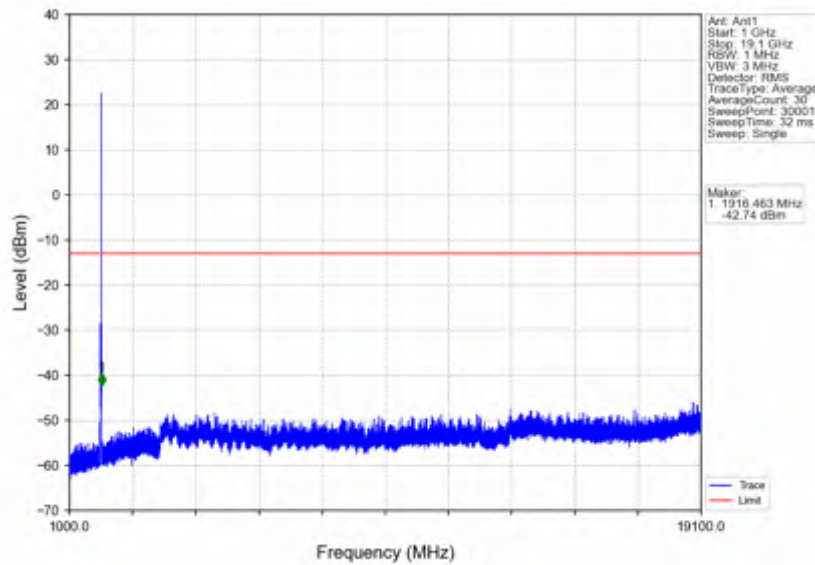
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Edge_1RB_Right



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Edge_1RB_Right



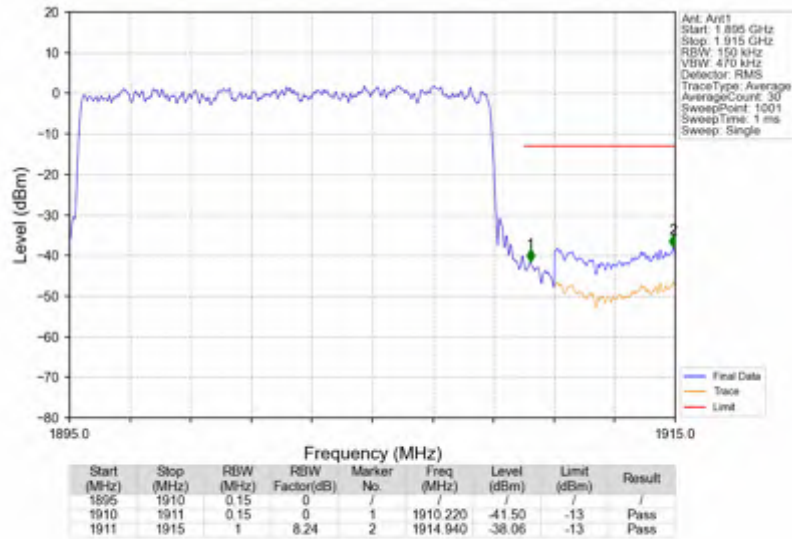
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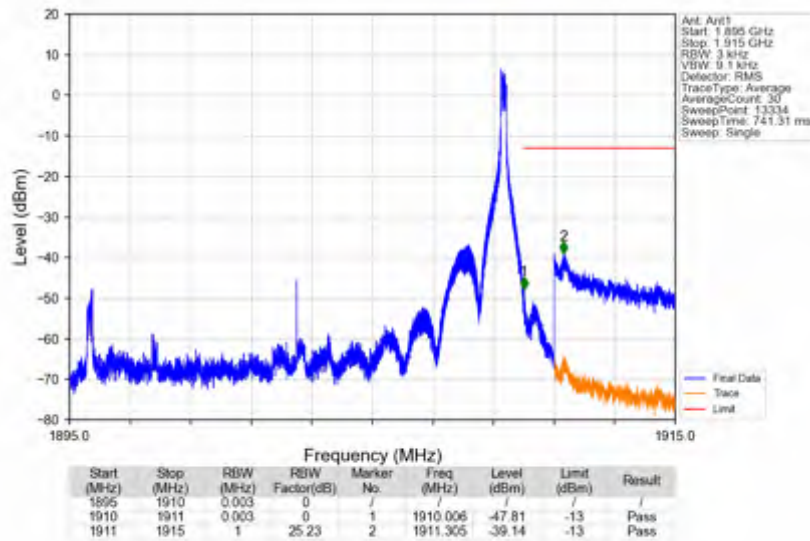
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Inner_1RB_Right

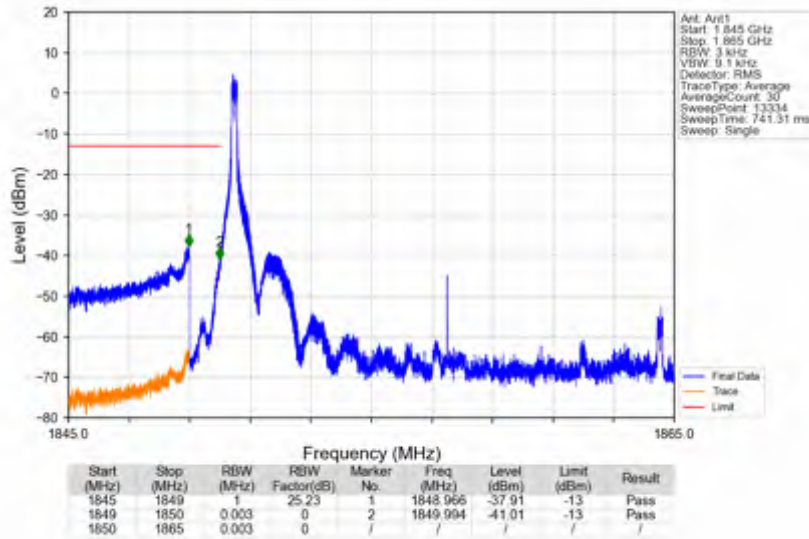


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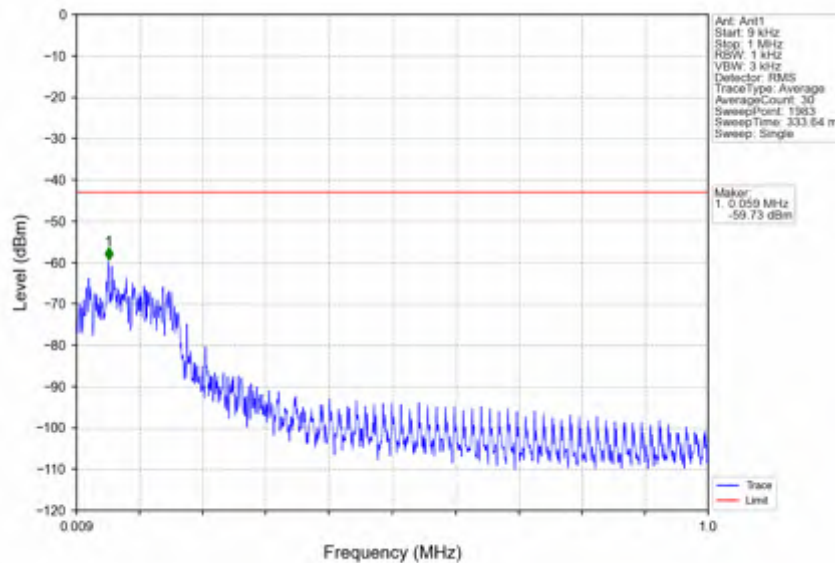
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Edge_1RB_Left

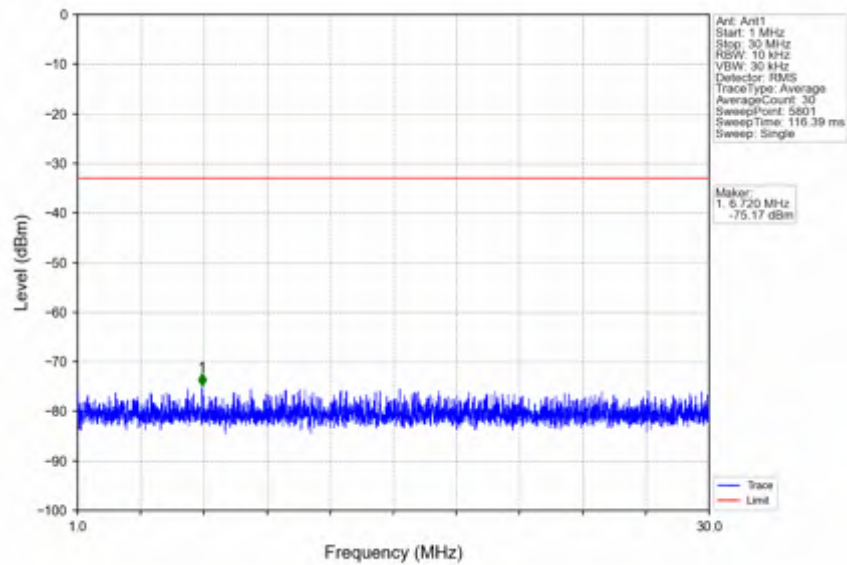


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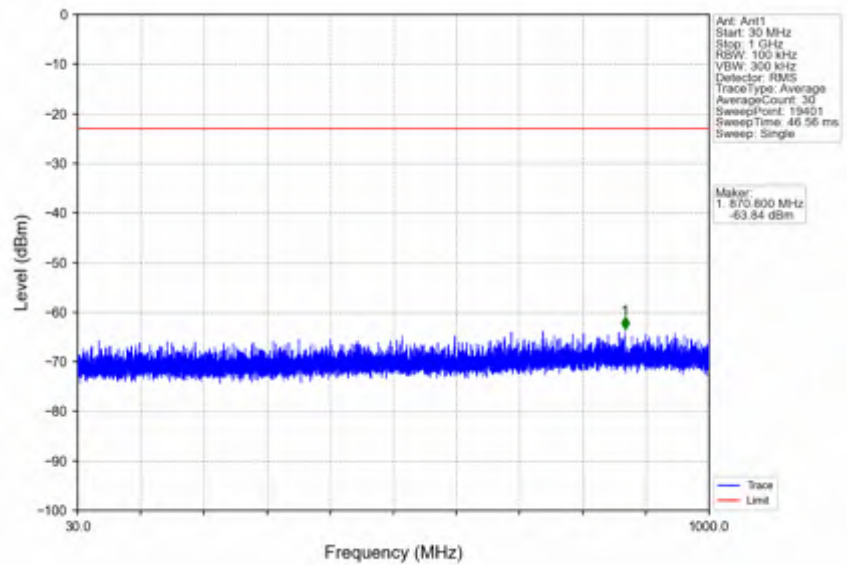
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Edge_1RB_Left



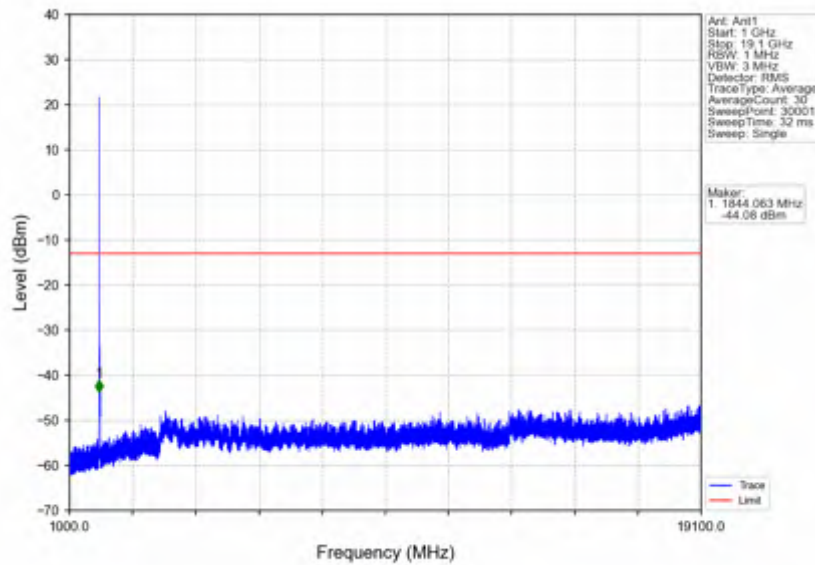
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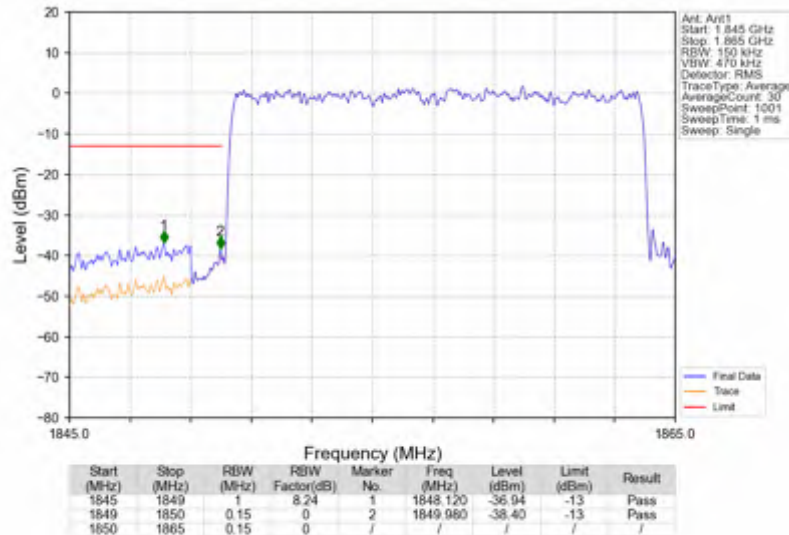
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Outer_Full



Frequency (MHz)

Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	8.24	1	1848.120	-36.94	-13	Pass
1849	1850	0.15	0	2	1849.960	-38.40	-13	Pass
1850	1865	0.15	0	/	/	/	/	/



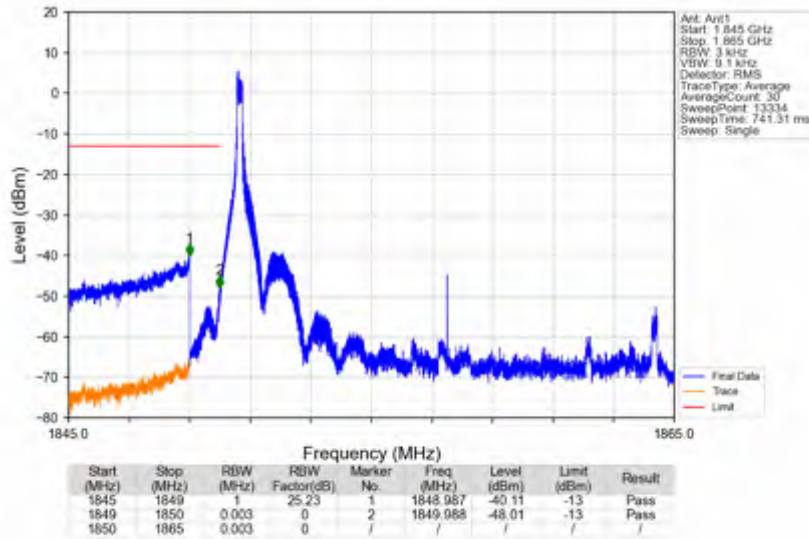
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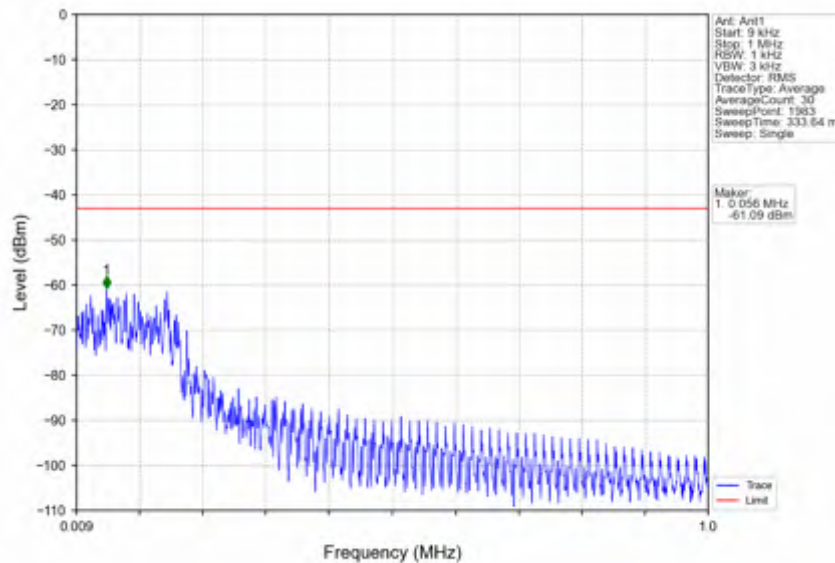
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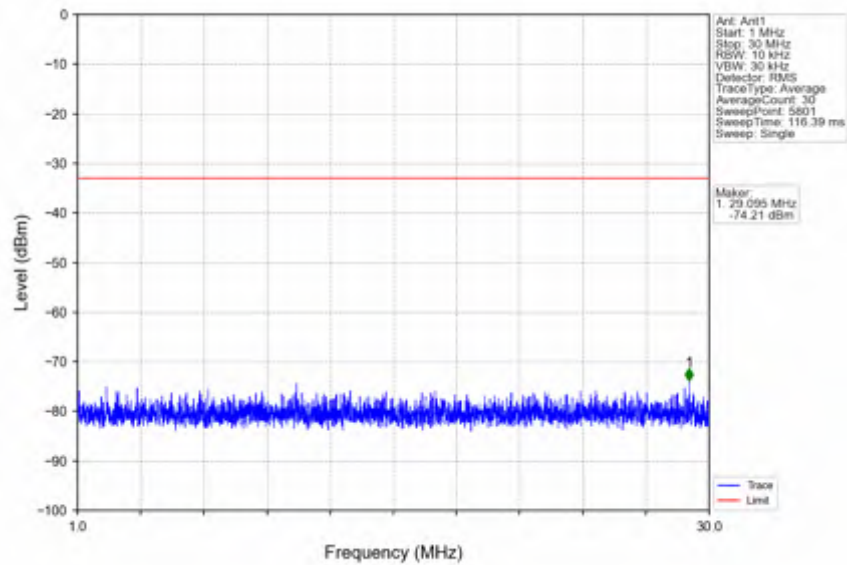
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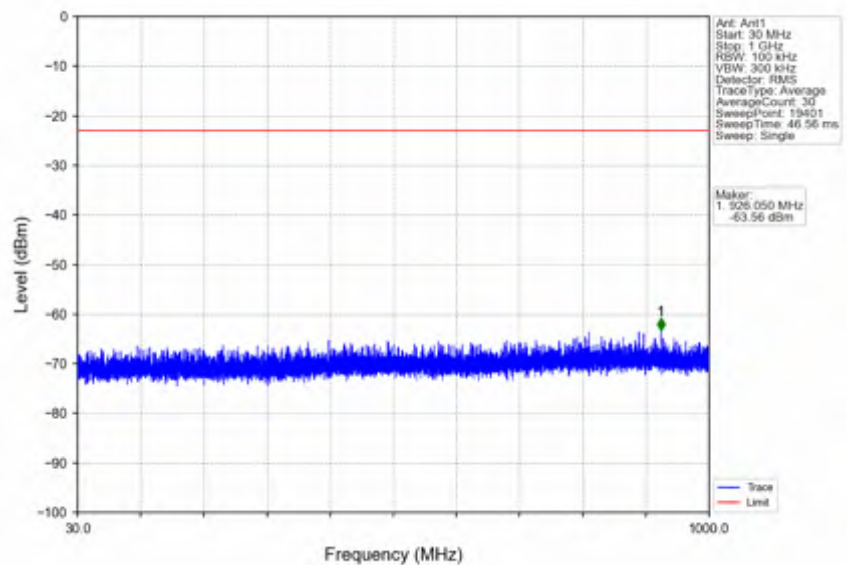
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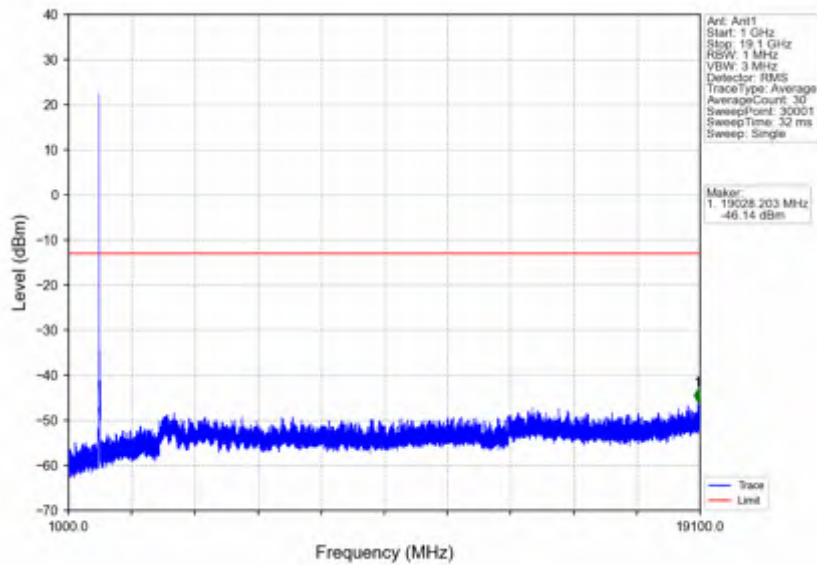
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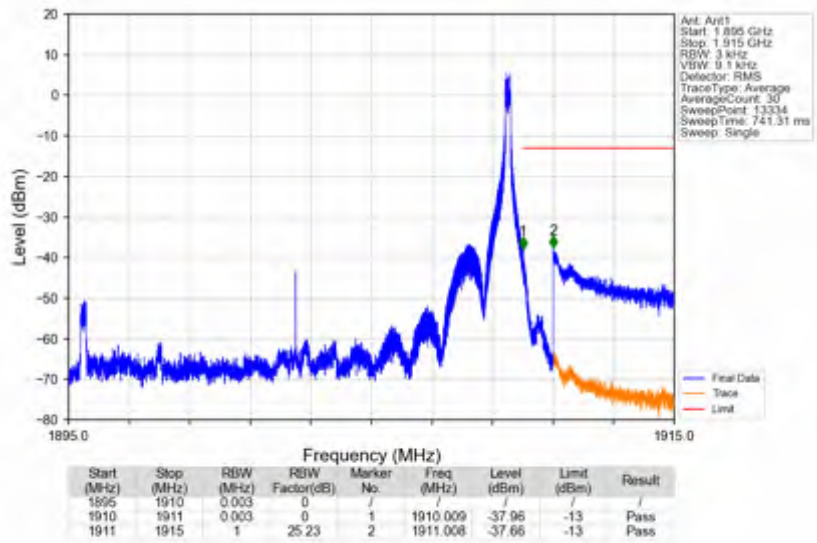
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n2_15kHz_SISO_NTV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Edge_1RB_Right

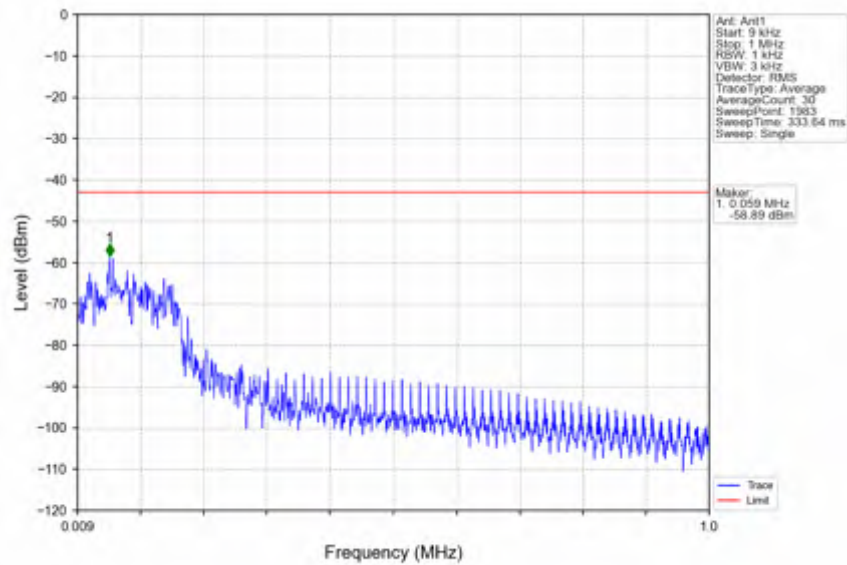


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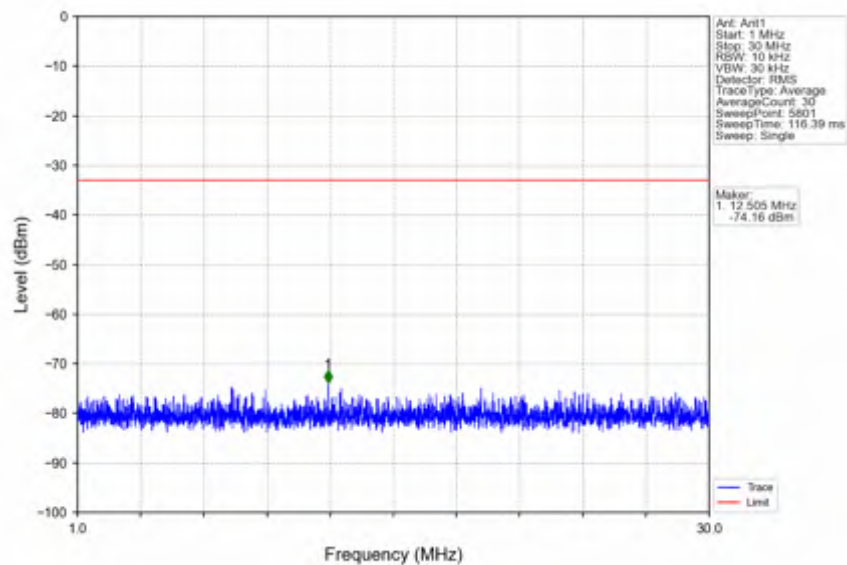
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n2_15kHz_SISO_NTV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Edge_1RB_Right



n2_15kHz_SISO_NTV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Edge_1RB_Right



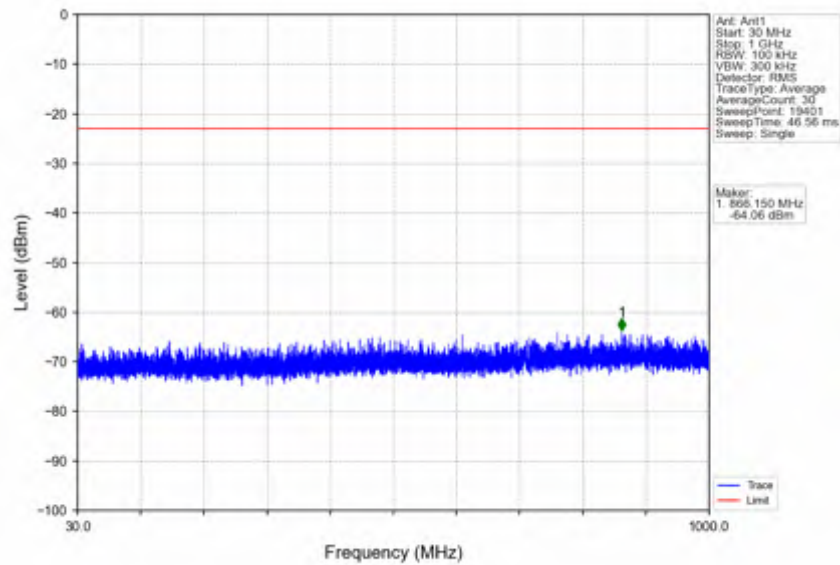
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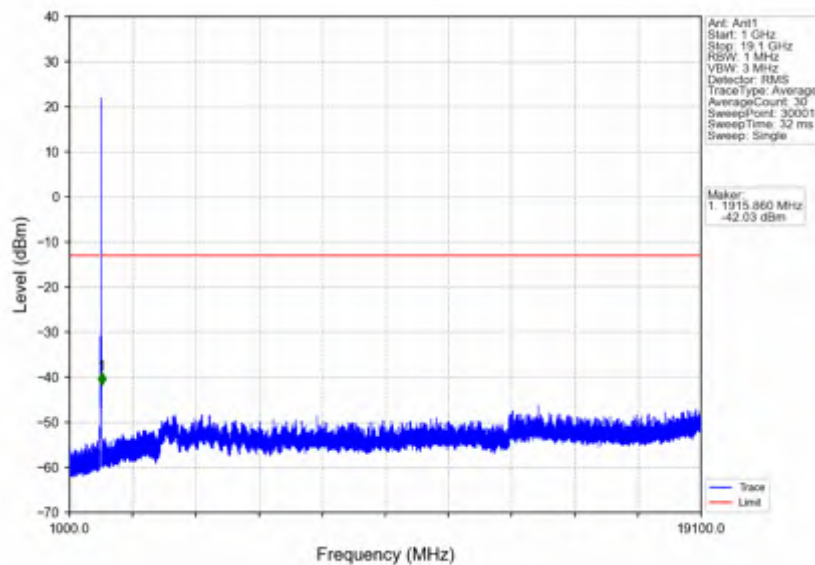
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n2_15kHz_SISO_NTV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Edge_1RB_Right



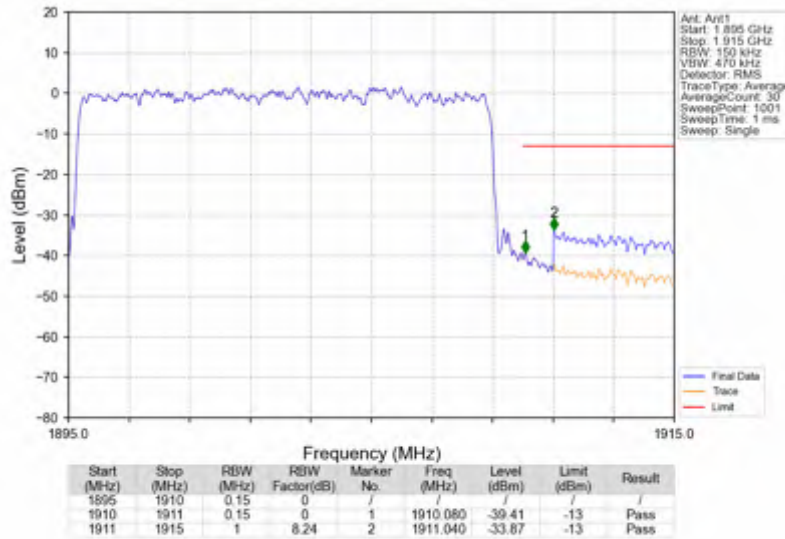
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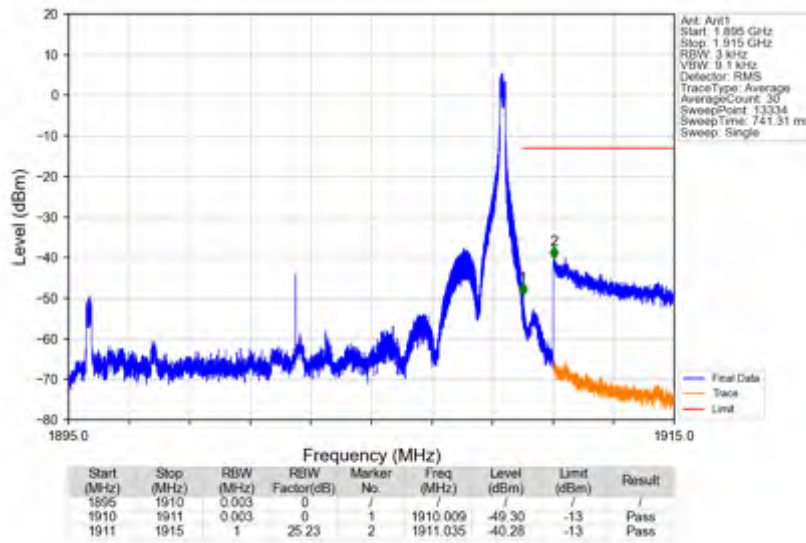
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Inner_1RB_Right



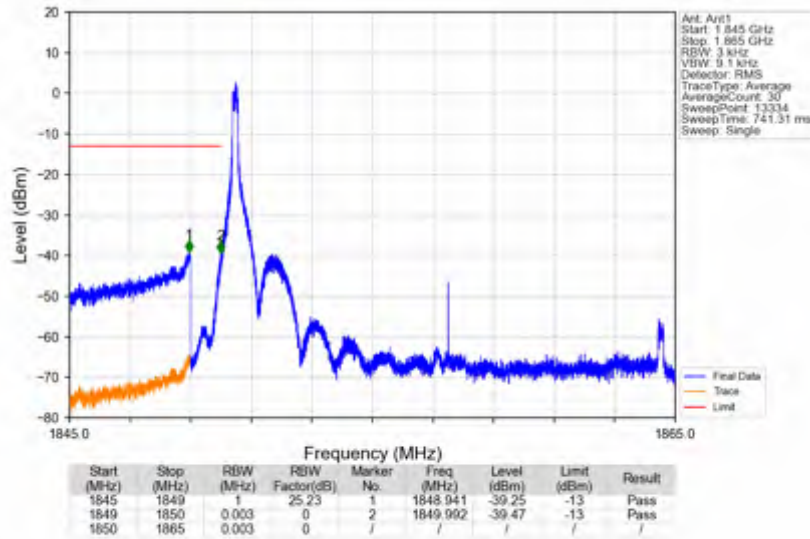
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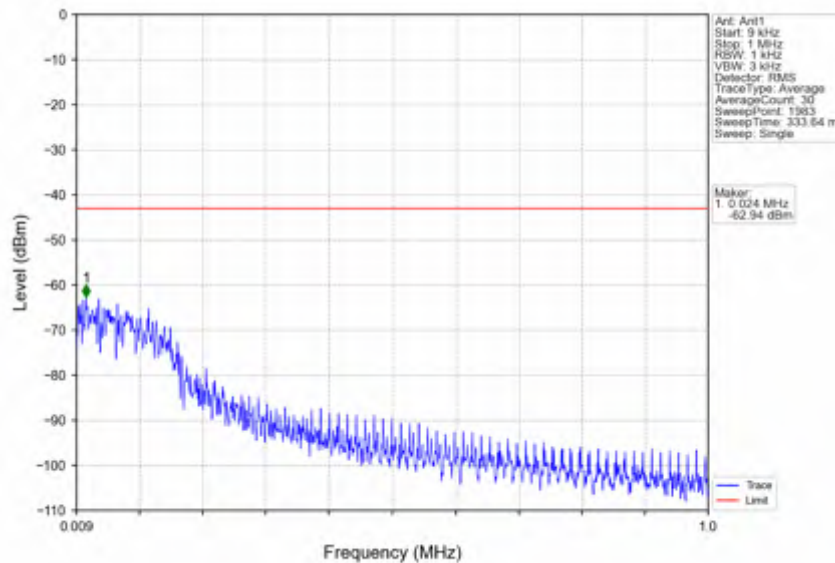
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Edge_1RB_Left

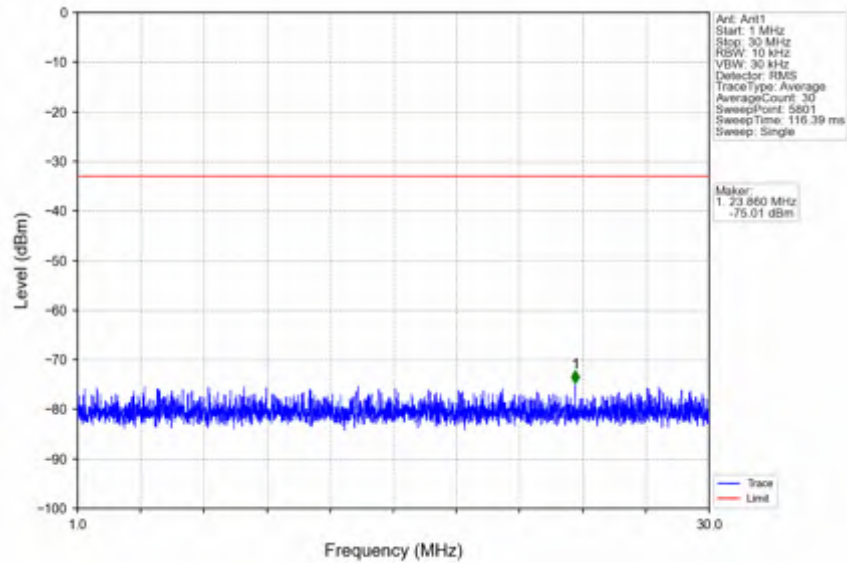


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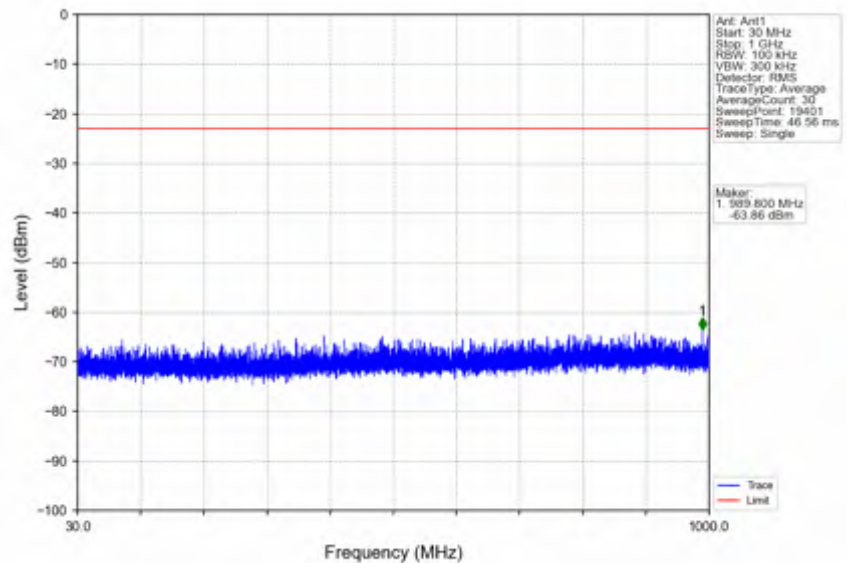
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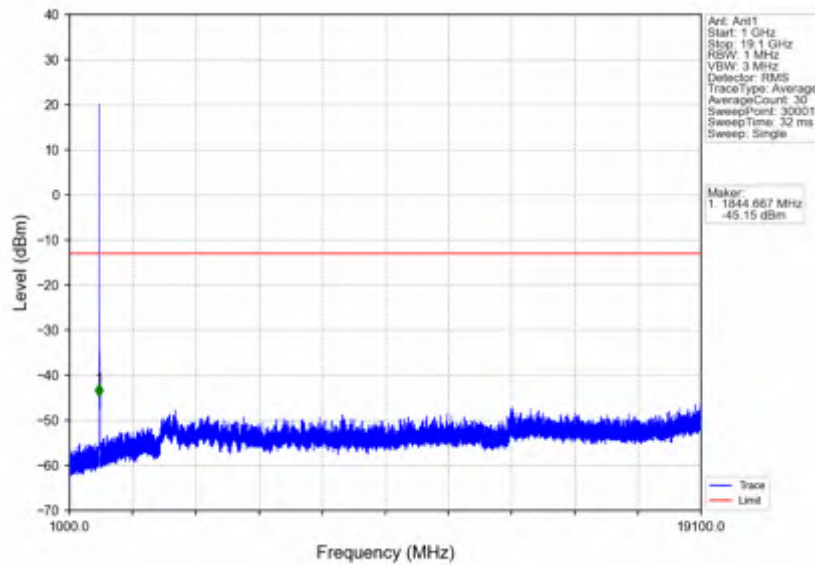
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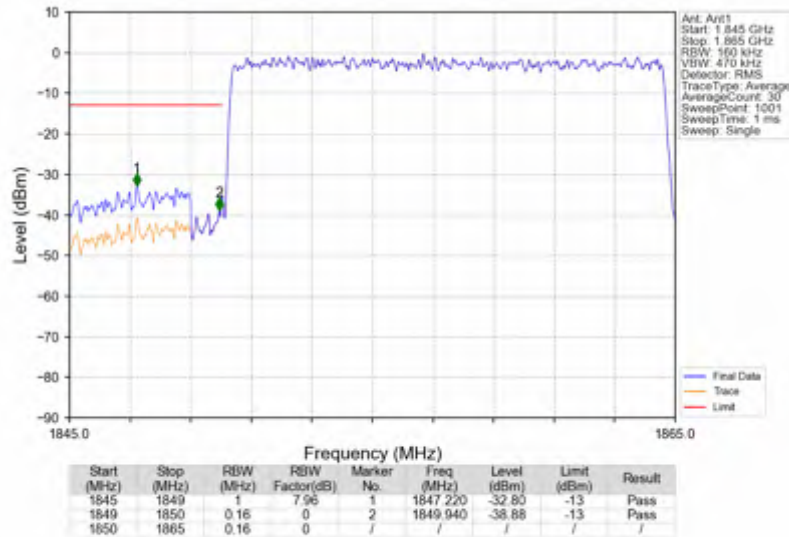
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Outer_Full



Frequency (MHz)

Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	7.96	1	1847.220	-32.80	-13	Pass
1849	1850	0.16	0	2	1849.940	-38.88	-13	Pass
1850	1865	0.16	0	/	/	/	/	/



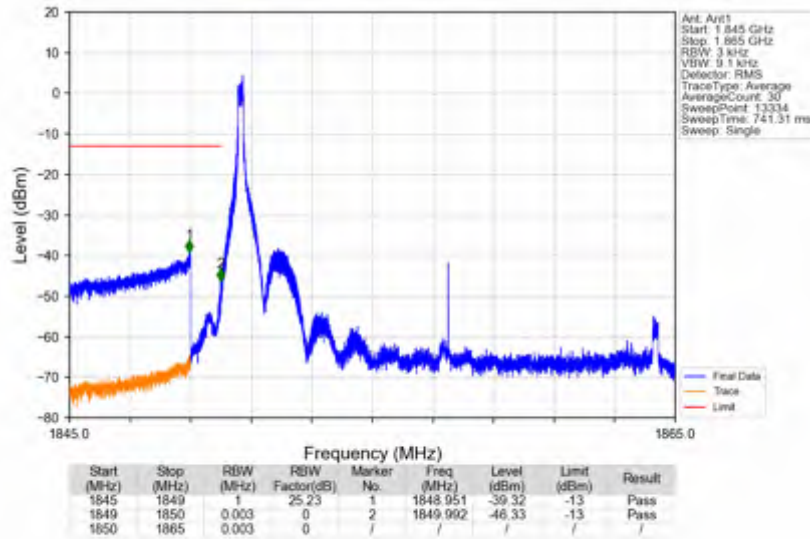
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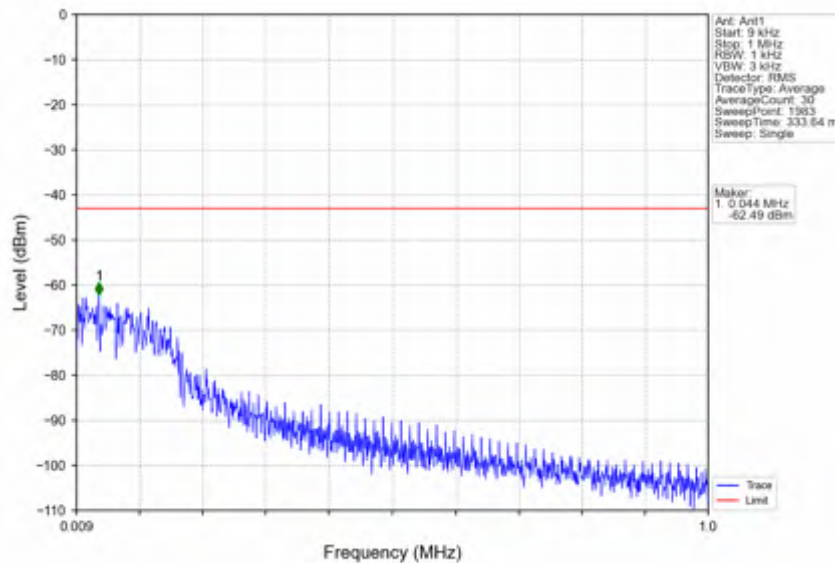
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Inner_1RB_Left



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1880MHz_Edge_1RB_Left

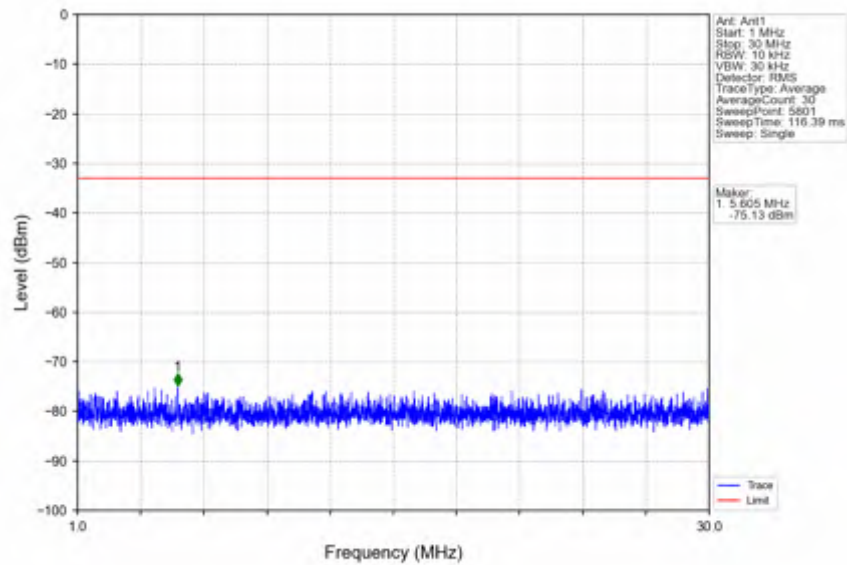


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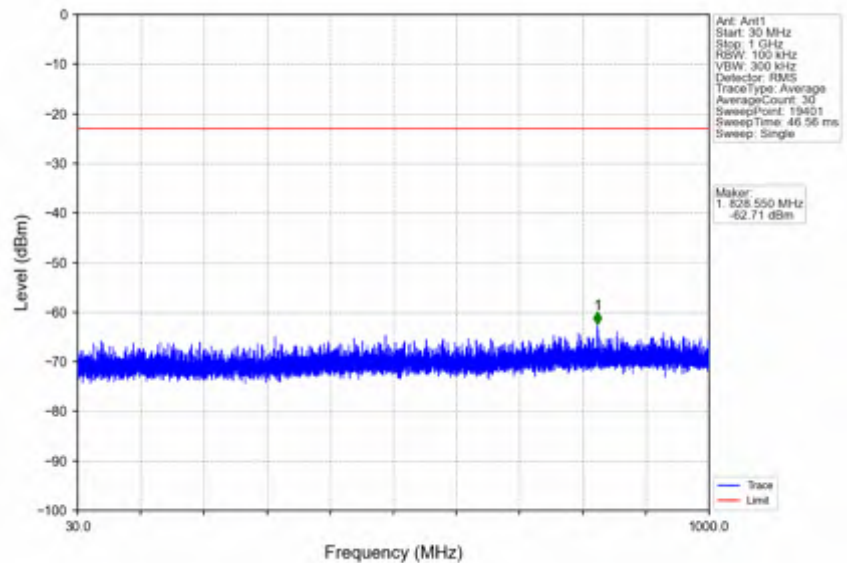
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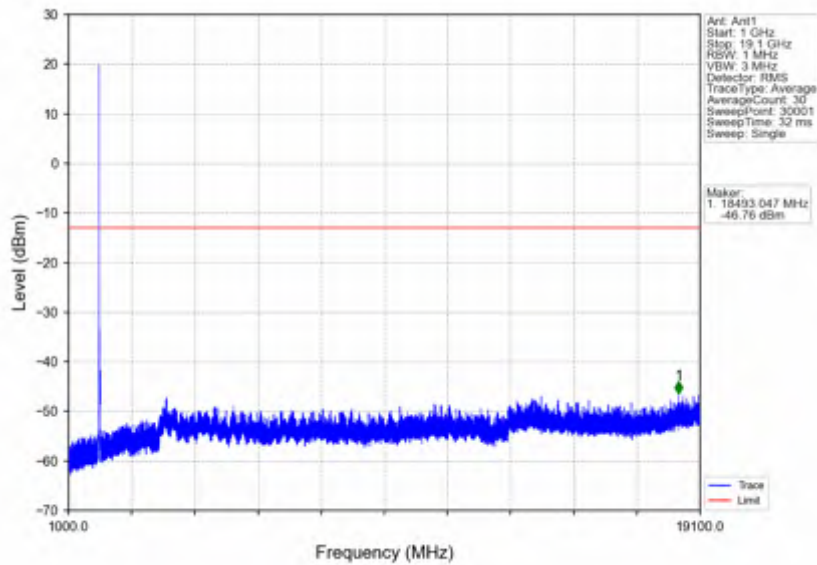
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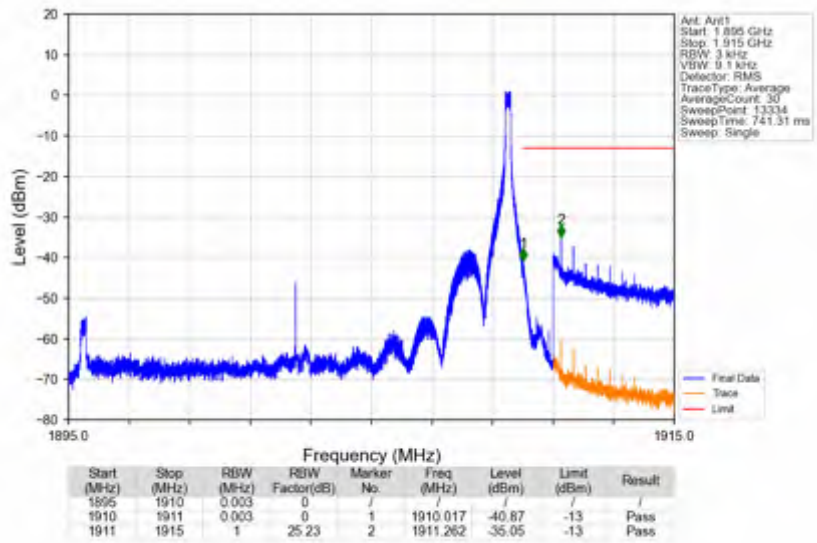
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1902.5MHz_Edge_1RB_Right



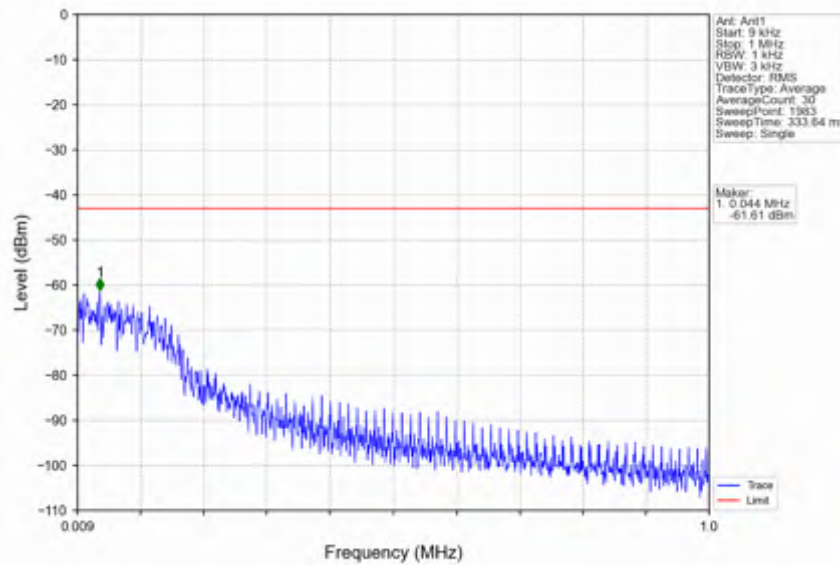
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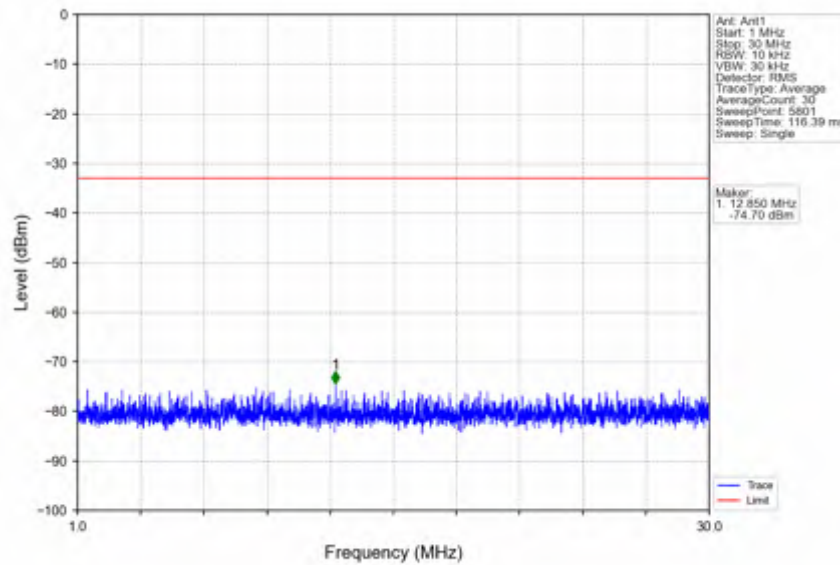
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1902.5MHz_Edge_1RB_Right

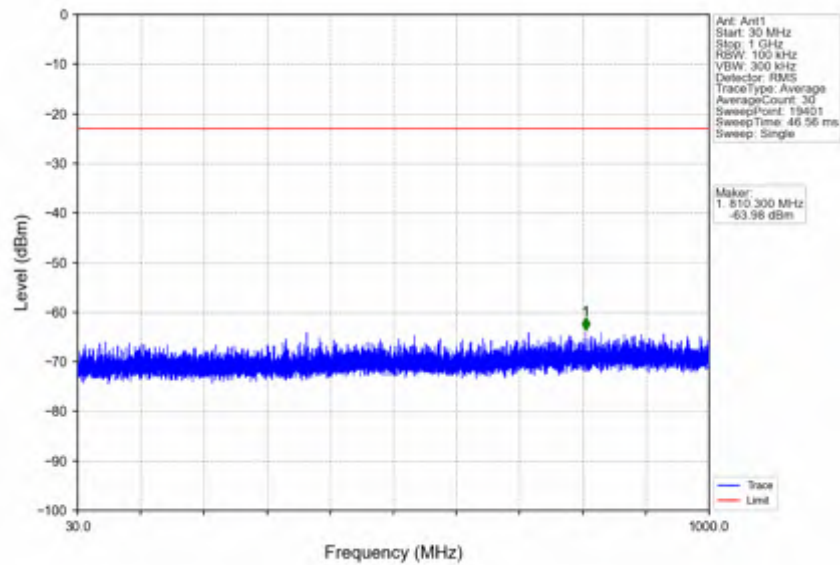


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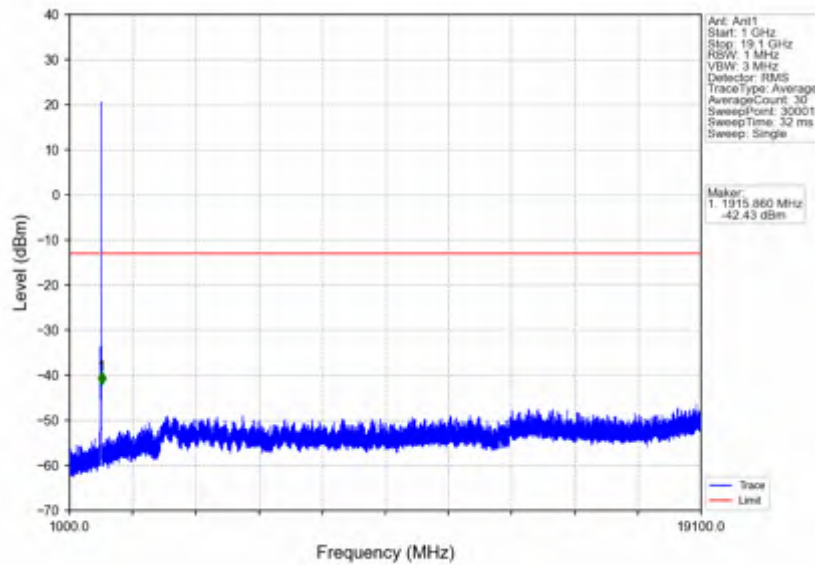
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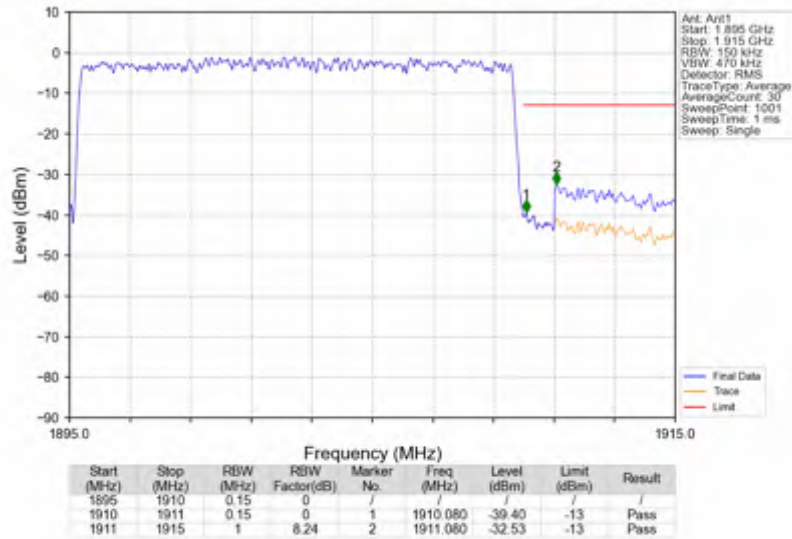
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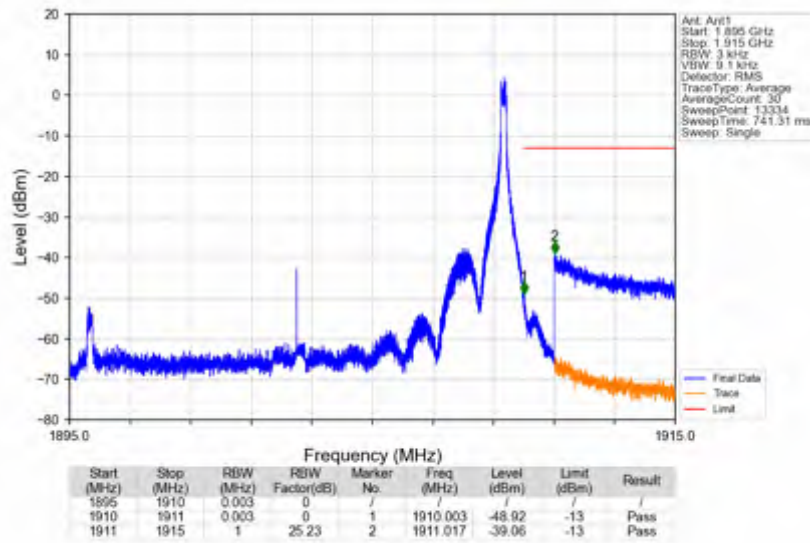
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1902.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1902.5MHz_Inner_1RB_Right



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1.4 15k_SISO_20MHz_NTNV

1.4.1 Test Result

5G NR n2 SCS=15kHz 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
1900	Outer_Full	Refer To Test Graph			Pass	
	Inner_1RB_Right	Refer To Test Graph			Pass	
	Inner_1RB_Right	Refer To Test Graph			Pass	



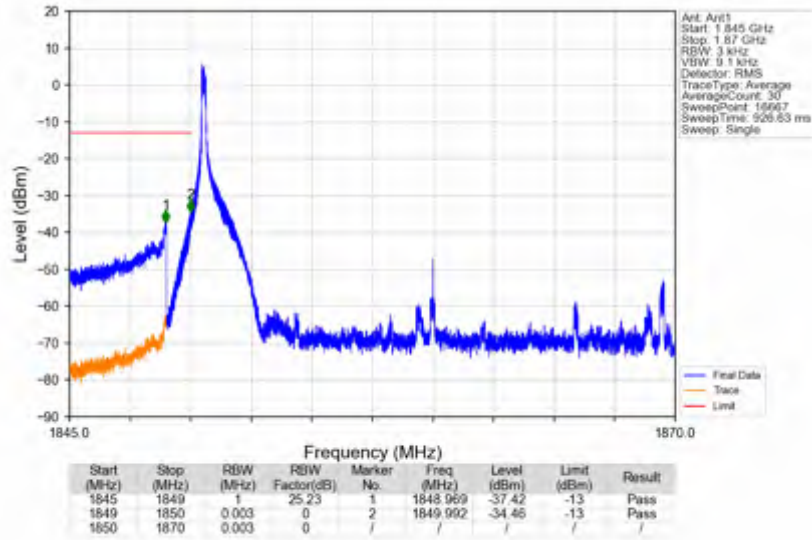
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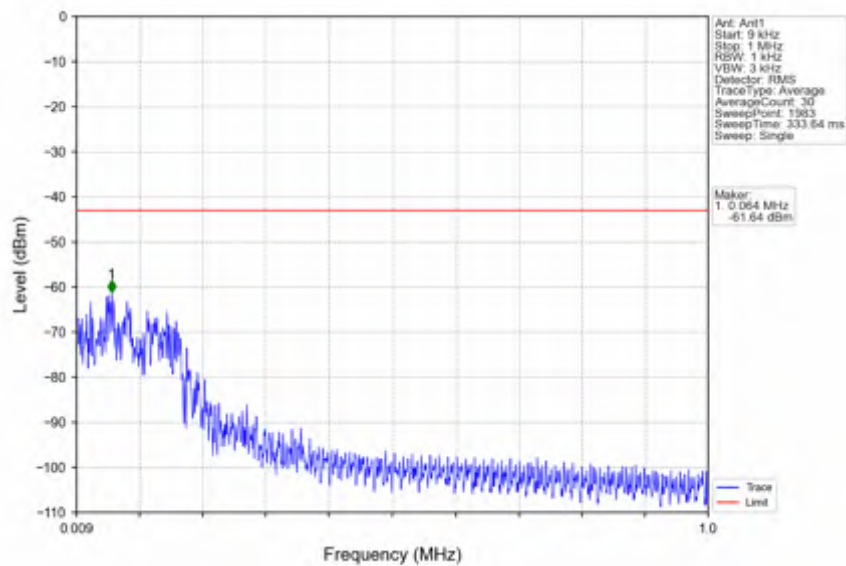
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1.4.2 Test Graph

n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_1860MHz_Edge_1RB_Left



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_1860MHz_Edge_1RB_Left

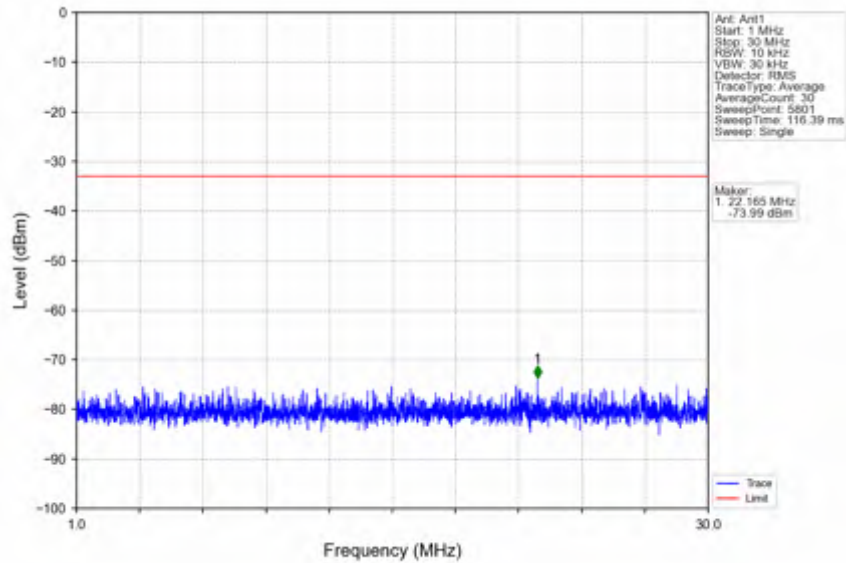


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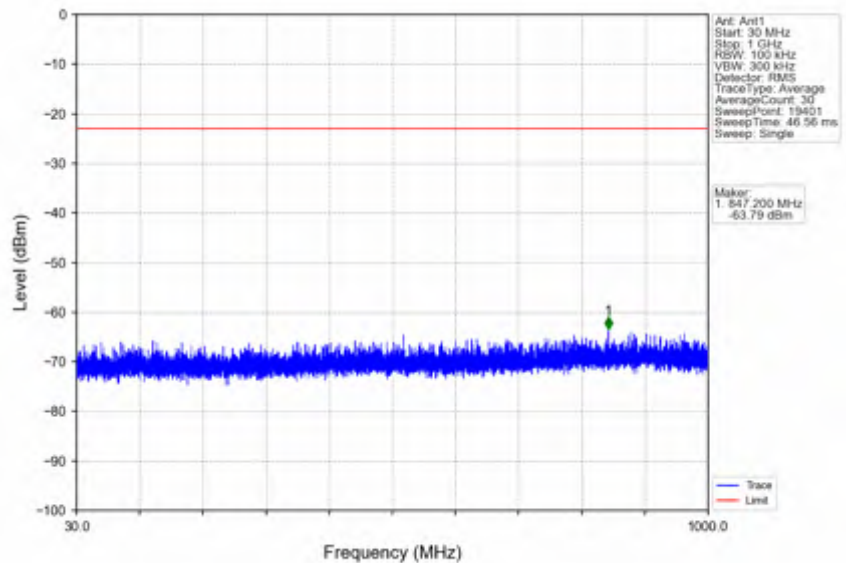
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1860MHz_Edge_1RB_Left



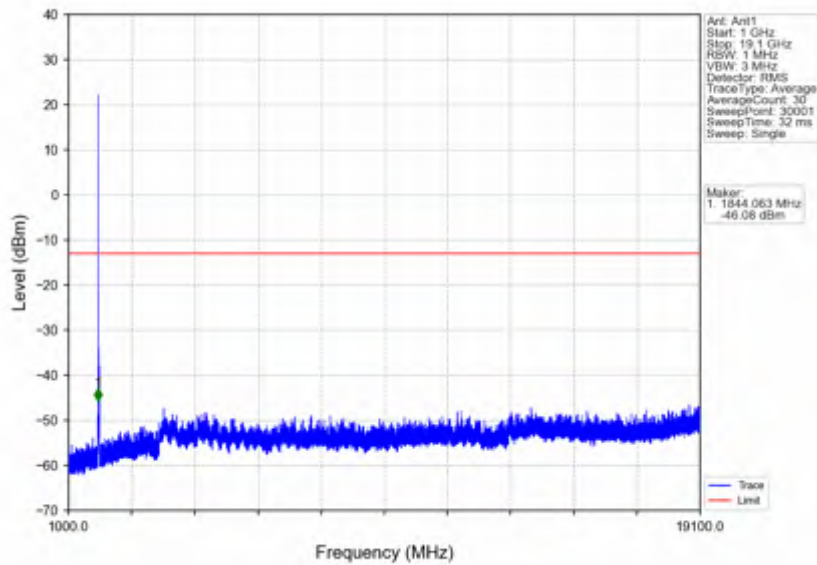
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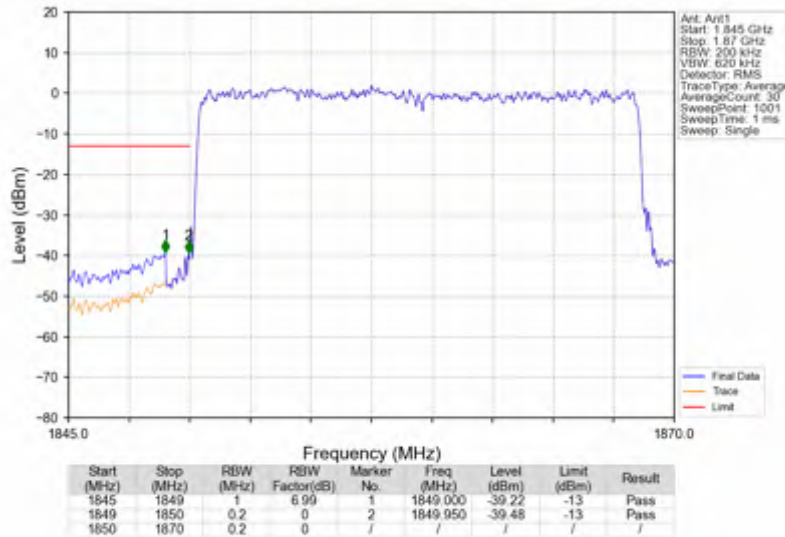
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1860MHz_Outer_Full



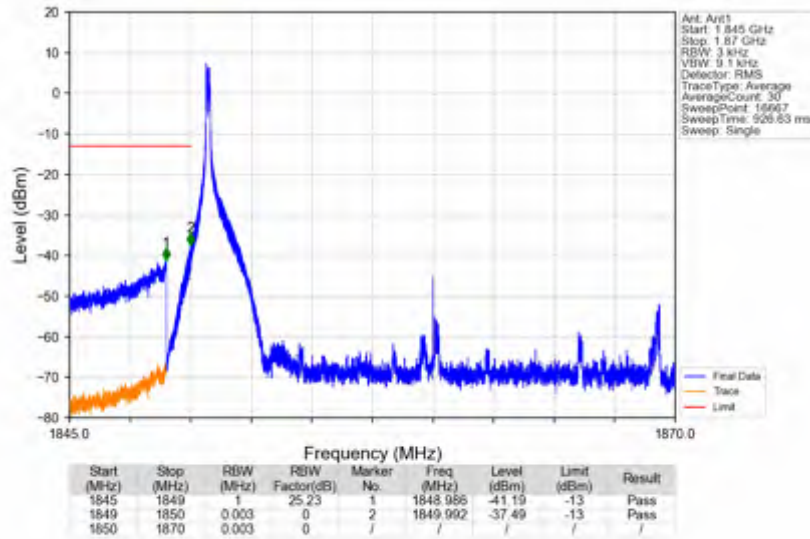
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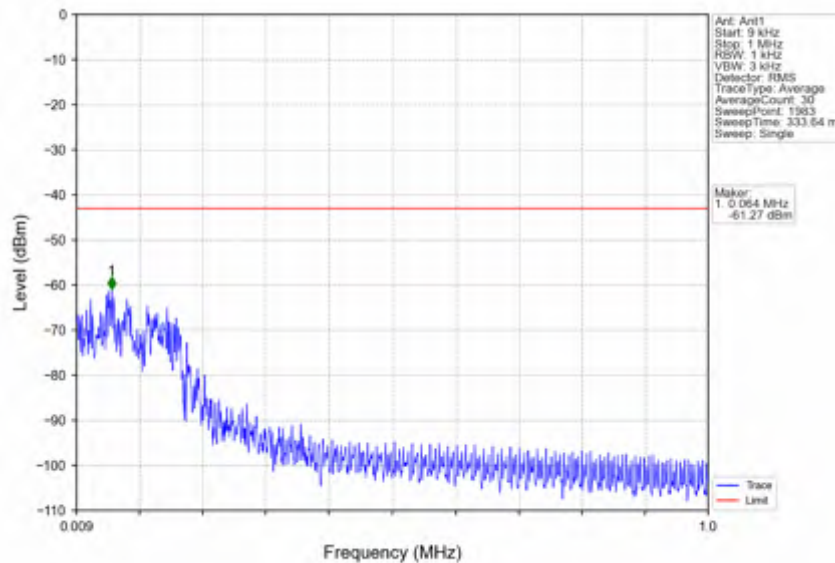
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Edge_1RB_Left

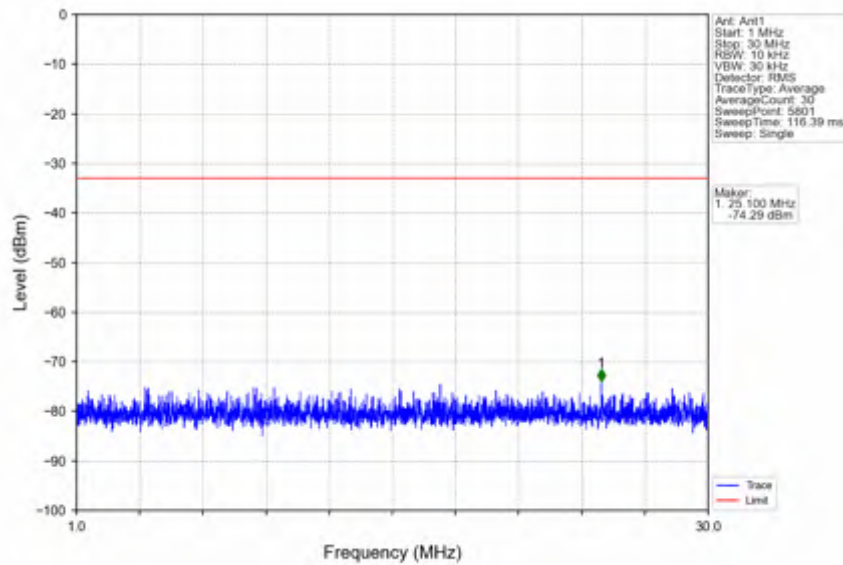


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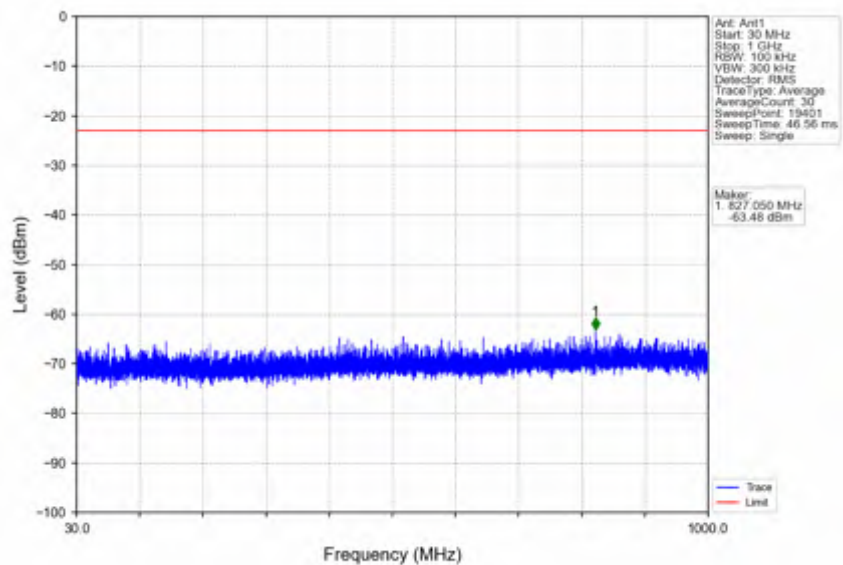
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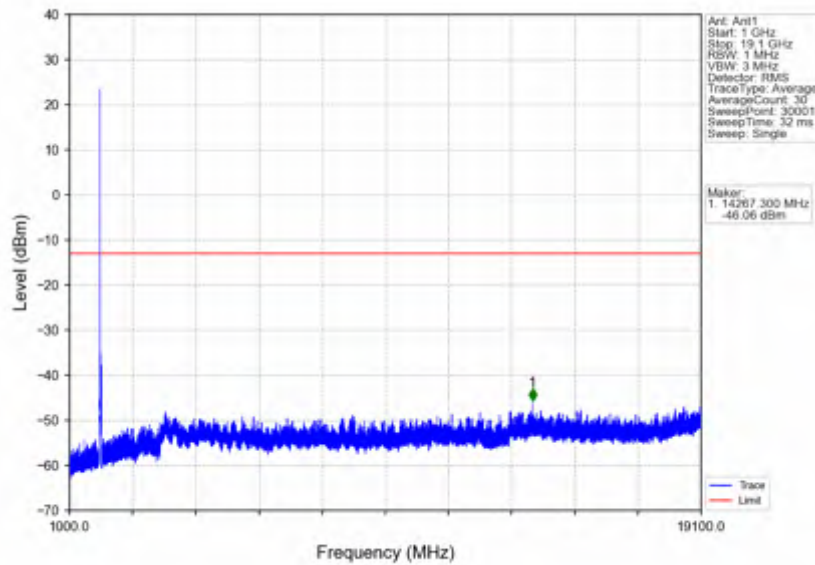
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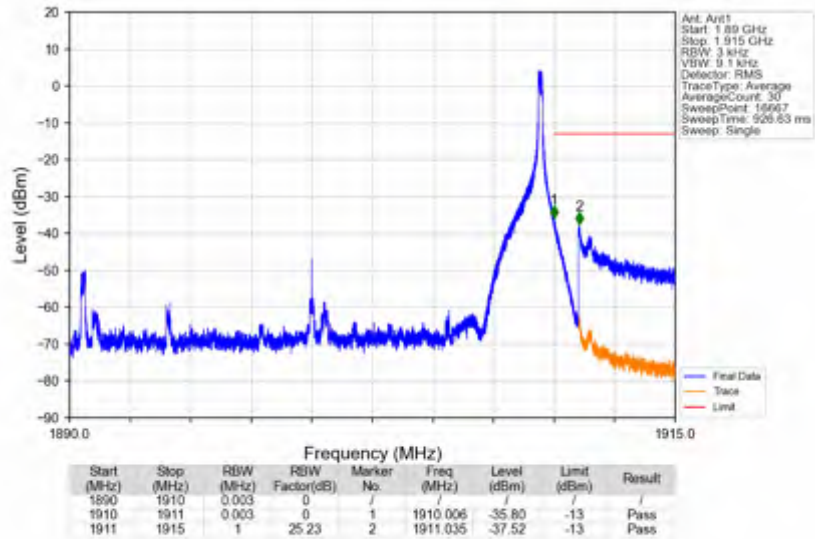
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1900MHz_Edge_1RB_Right



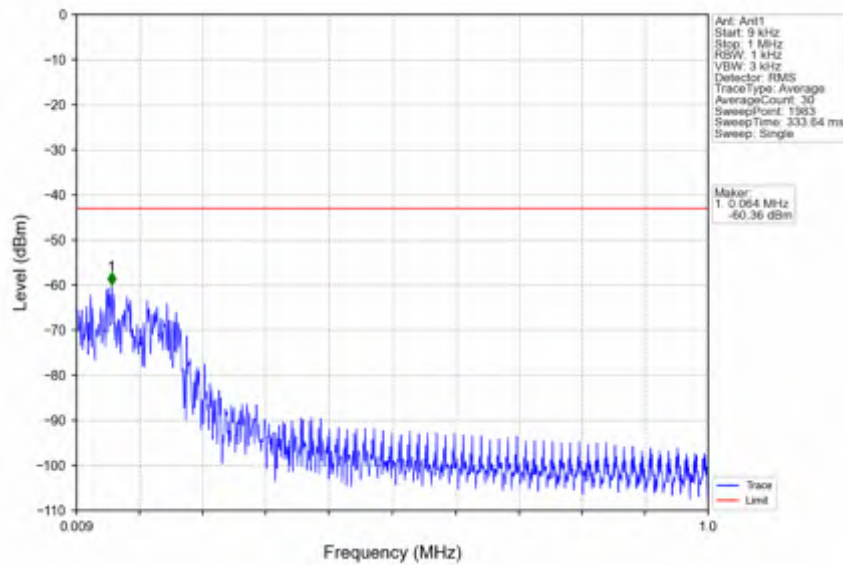
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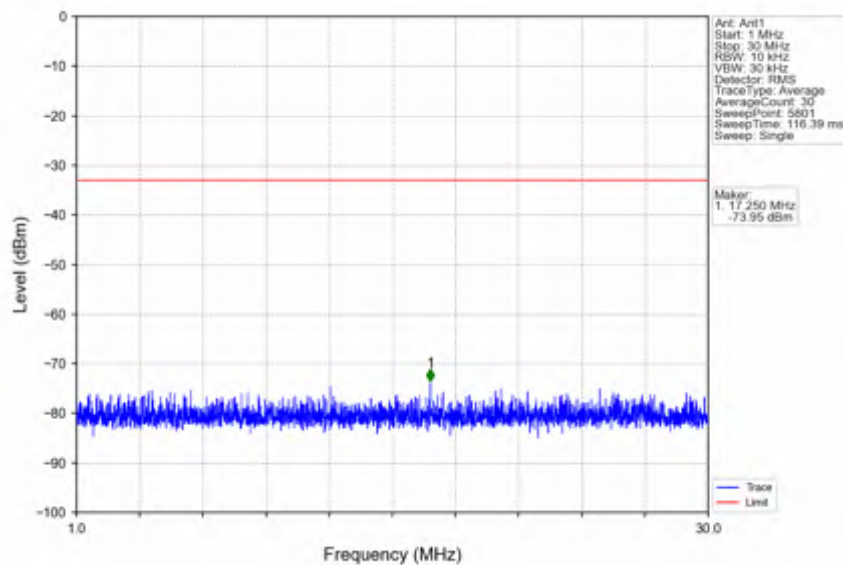
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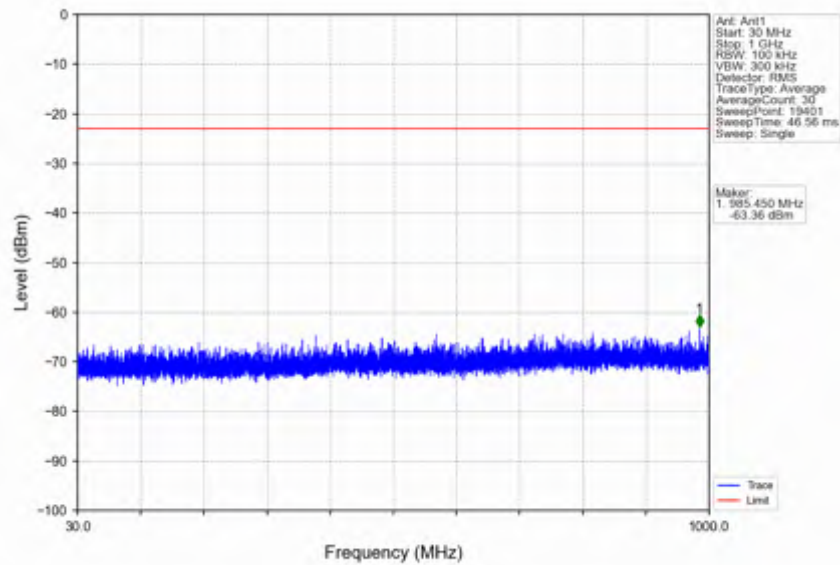
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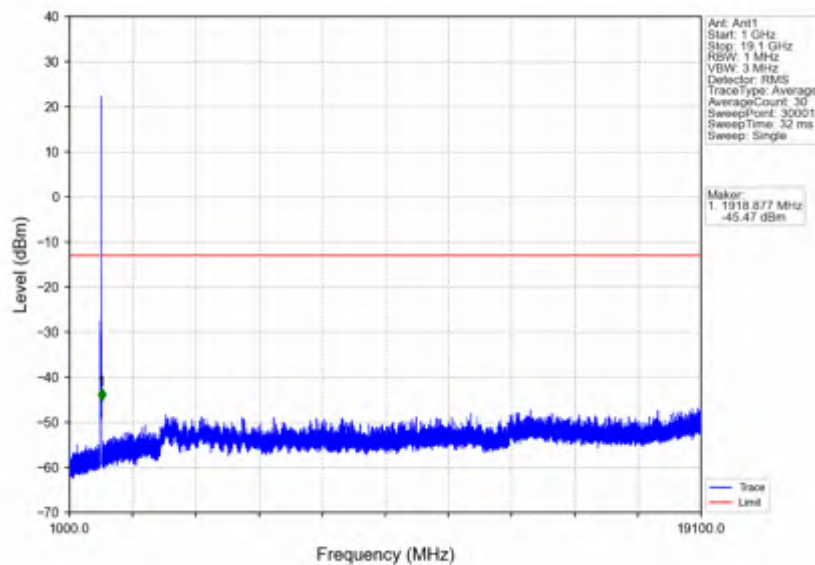
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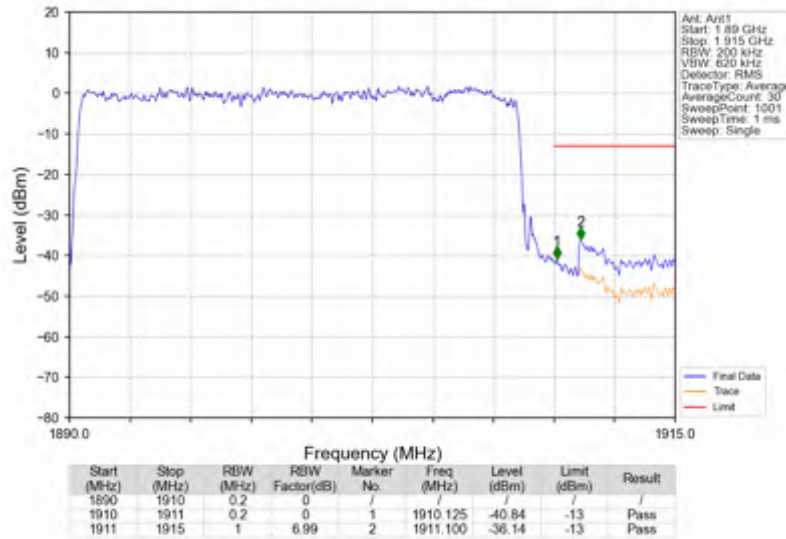
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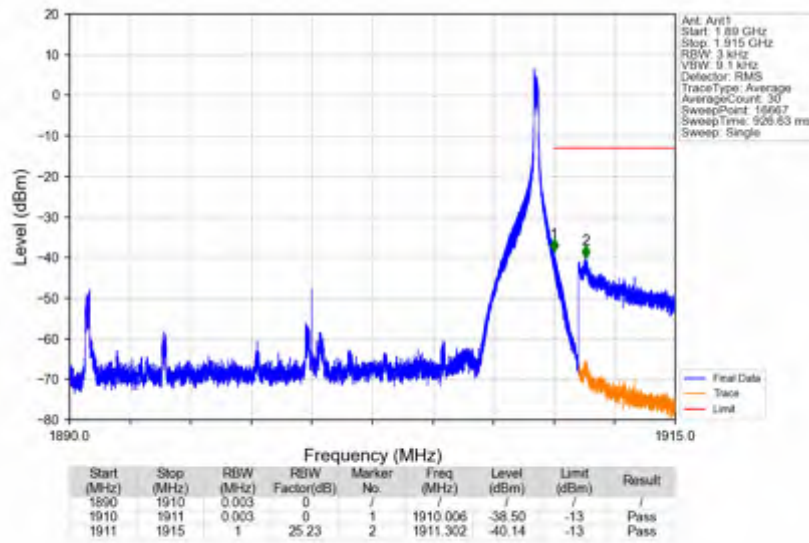
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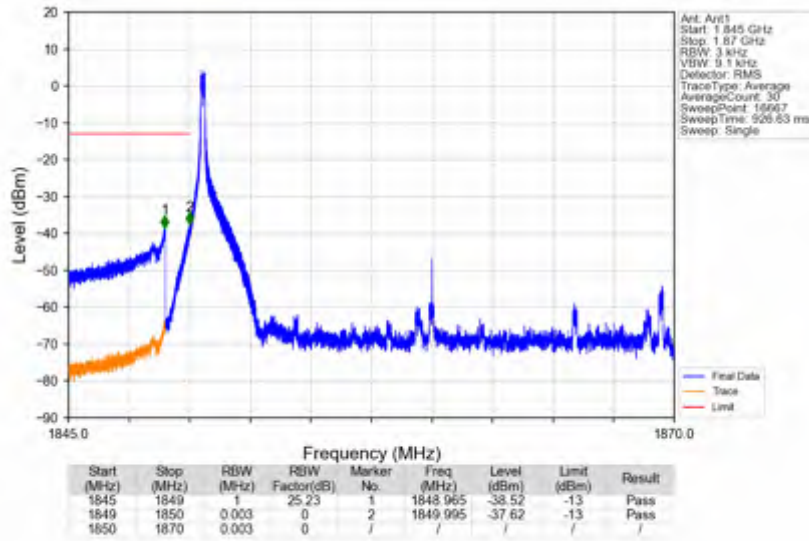


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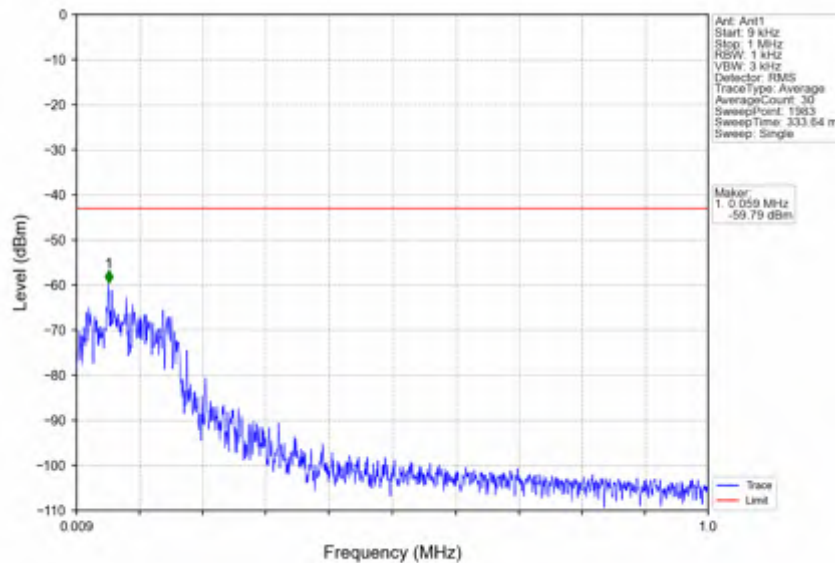
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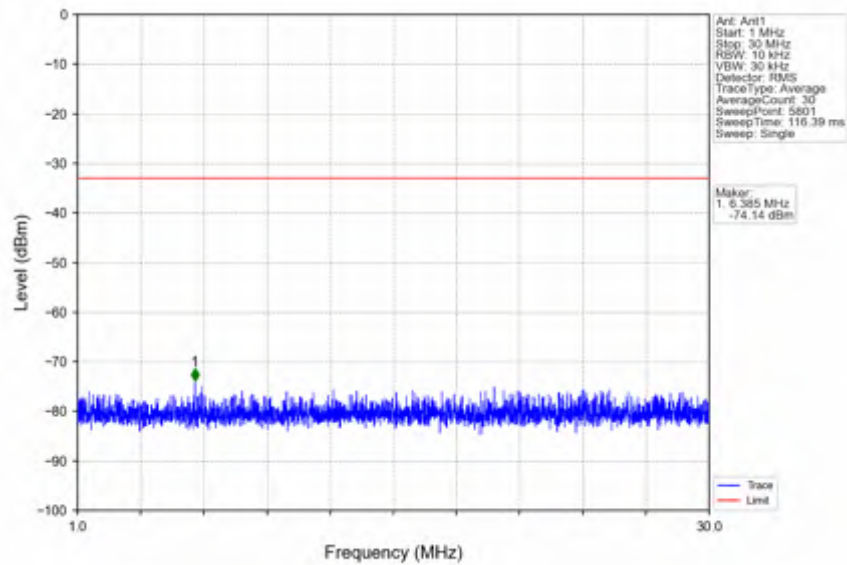


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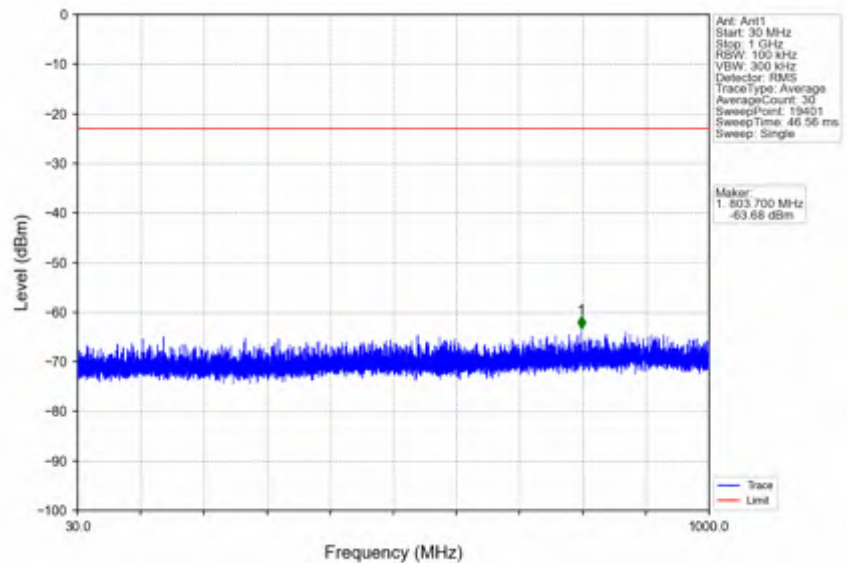
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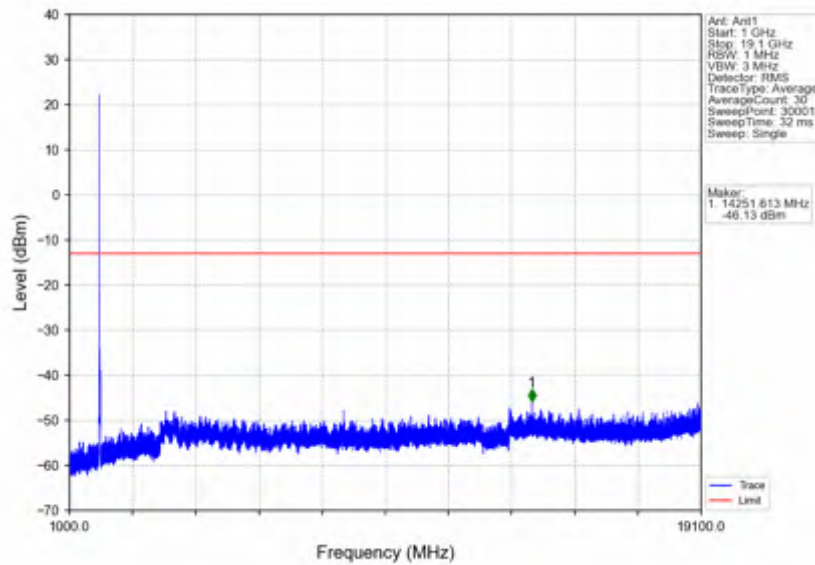
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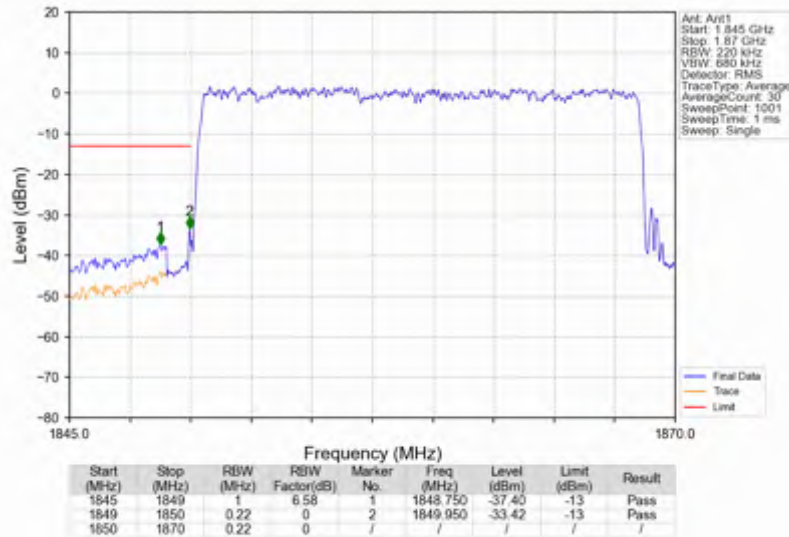
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1860MHz_Outer_Full



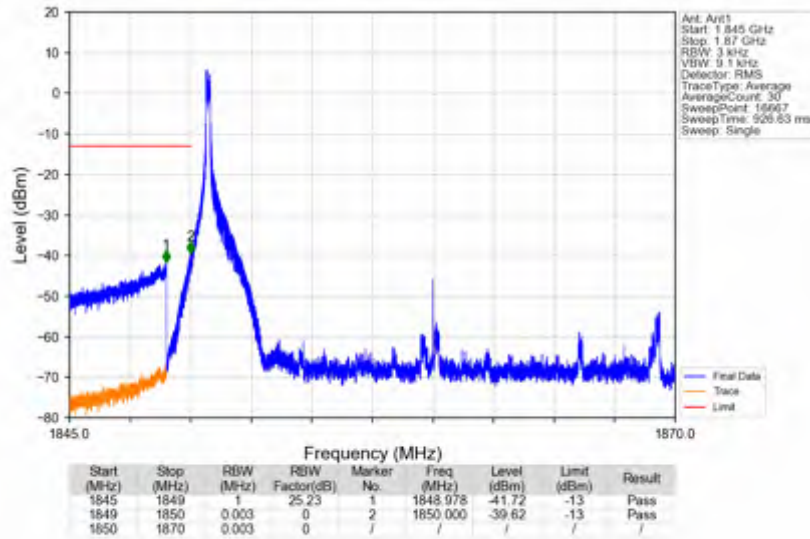
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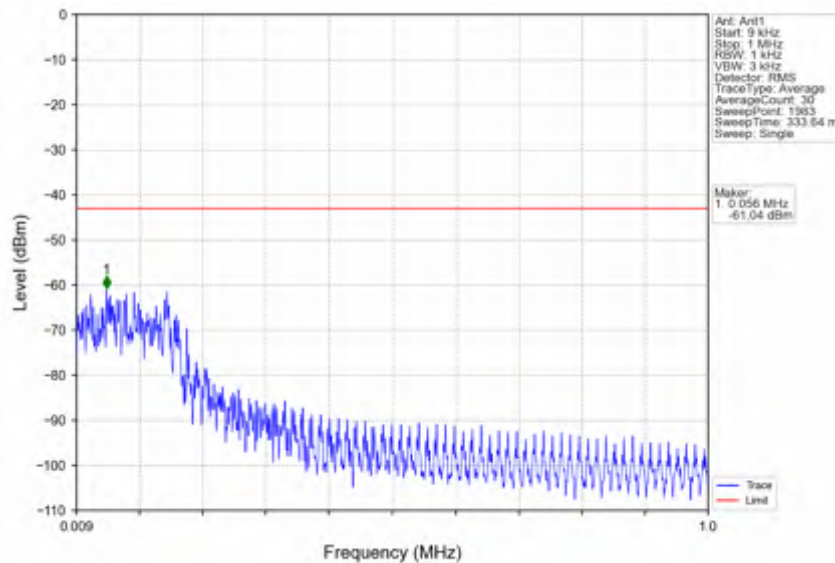
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n2_15kHz_SISO_NTV_20MHz_DFT-s-OFDM QPSK_1860MHz_Inner_1RB_Left



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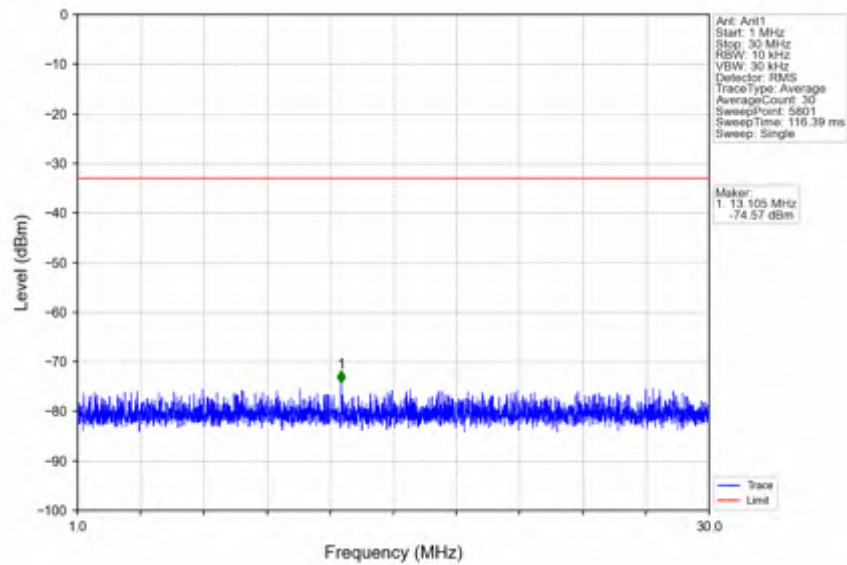


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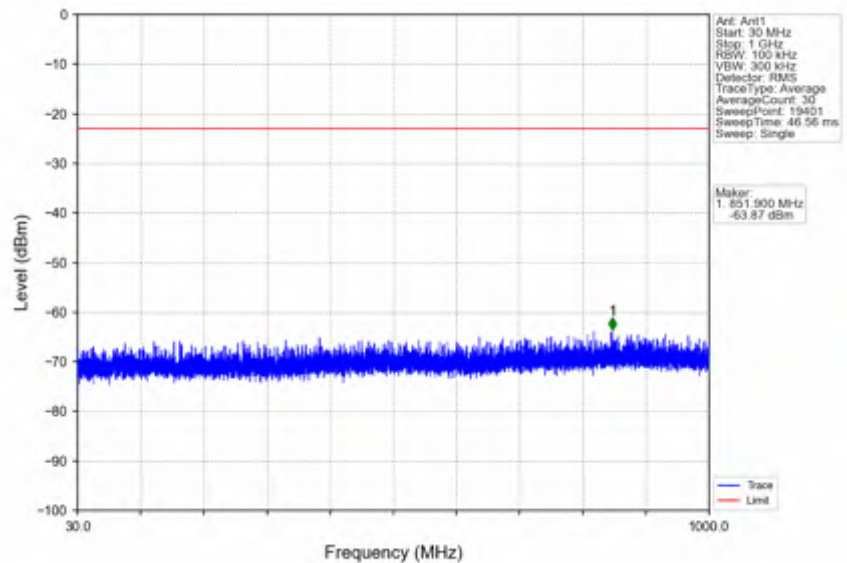
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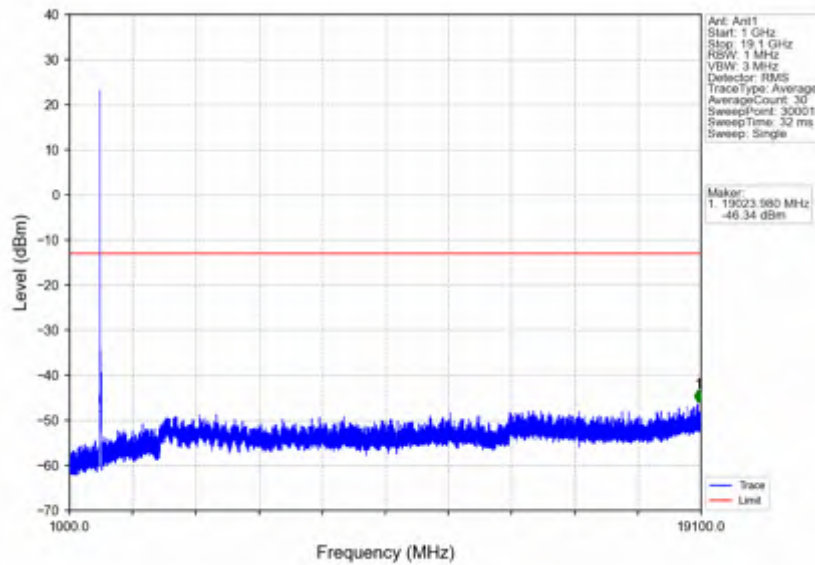
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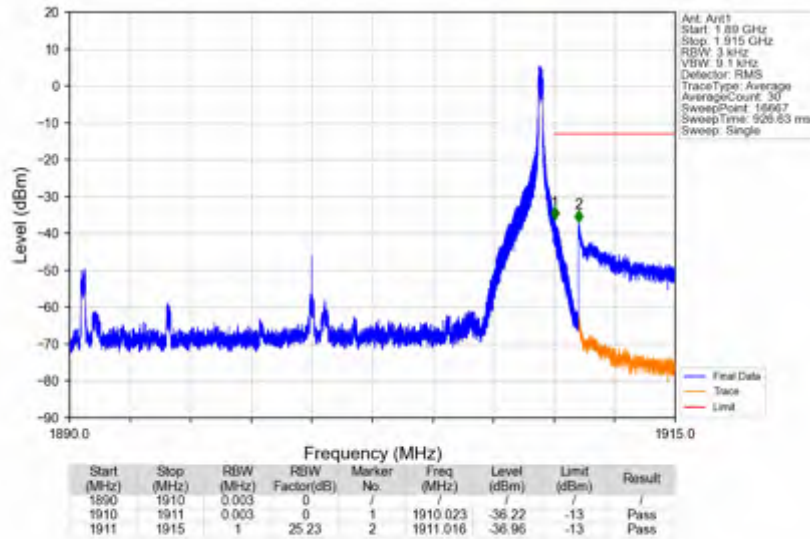
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left



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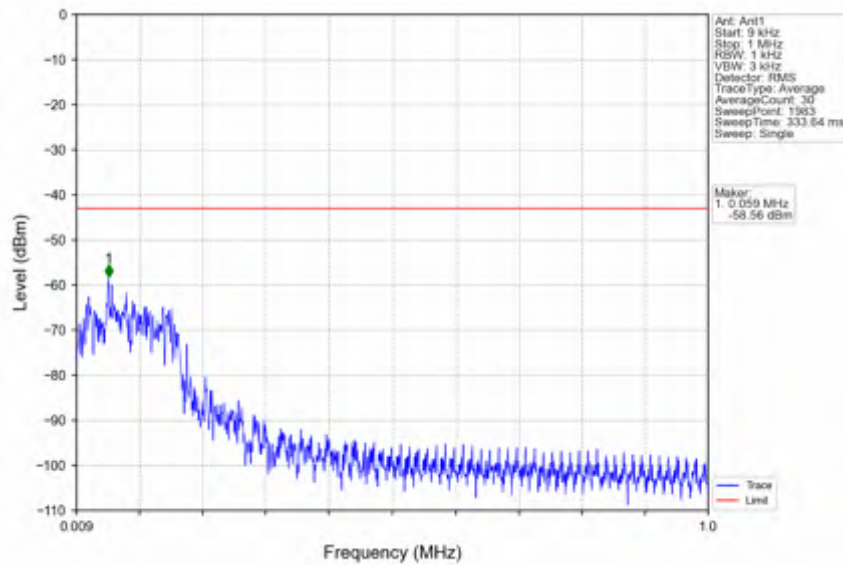
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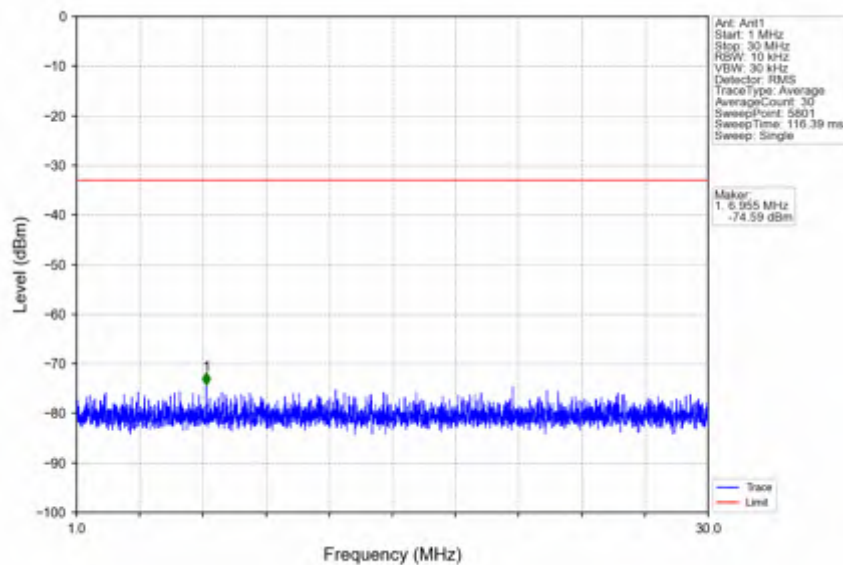
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1900MHz_Edge_1RB_Right



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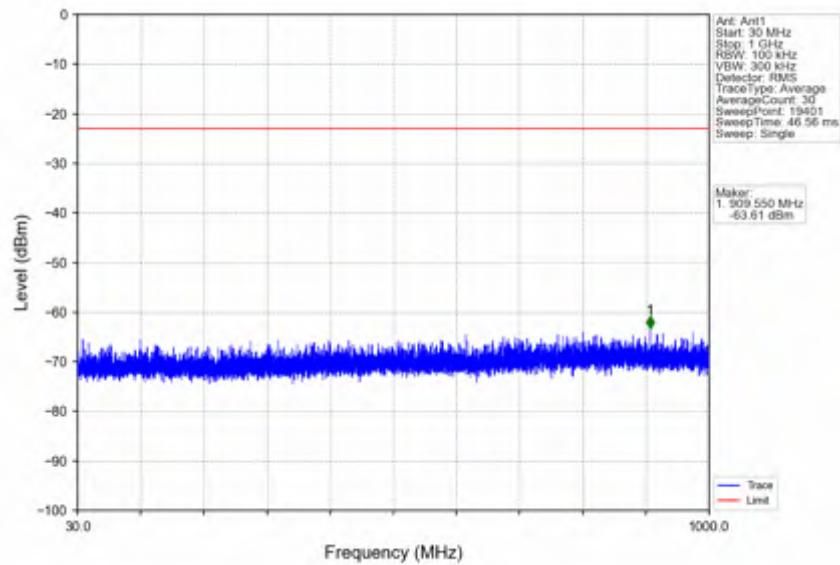
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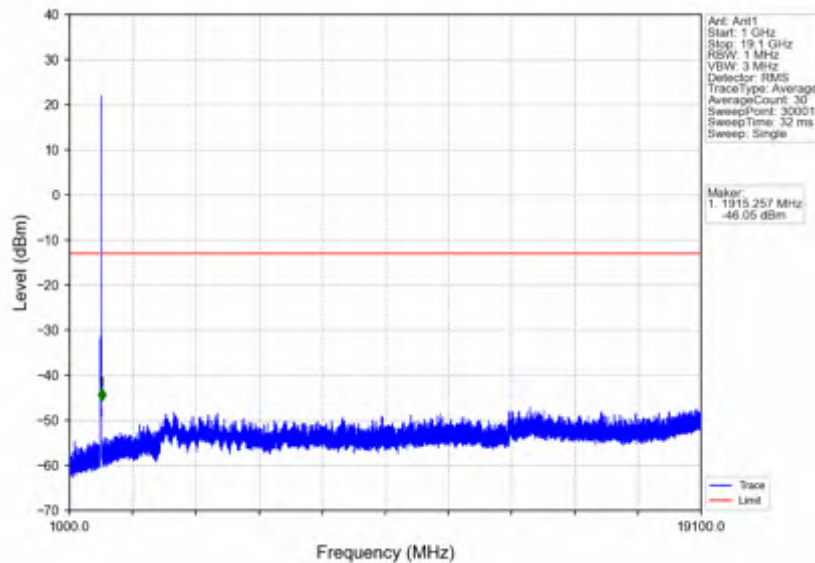
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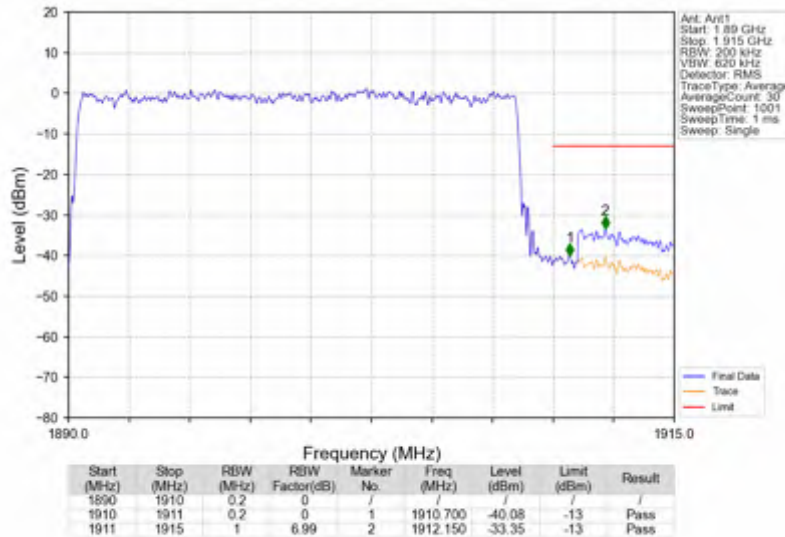
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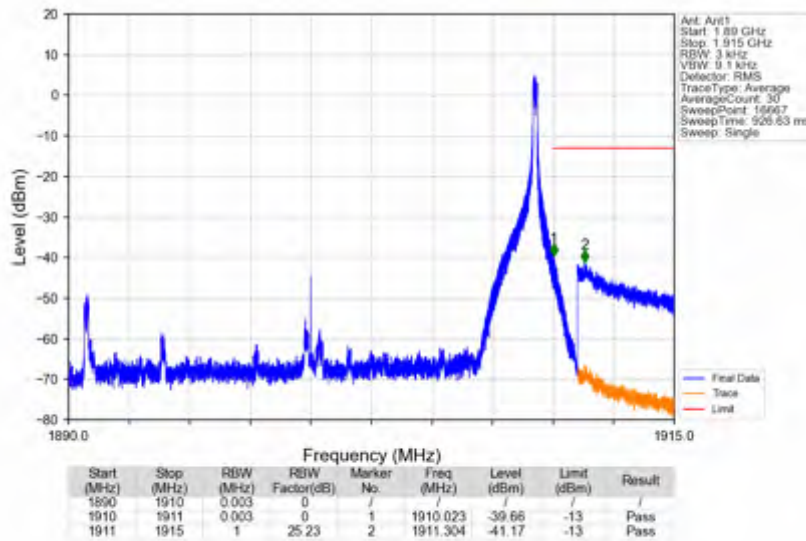
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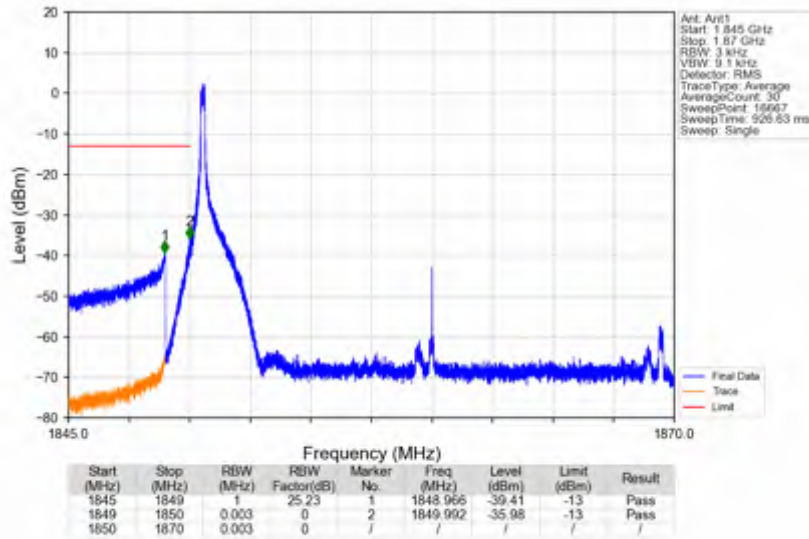


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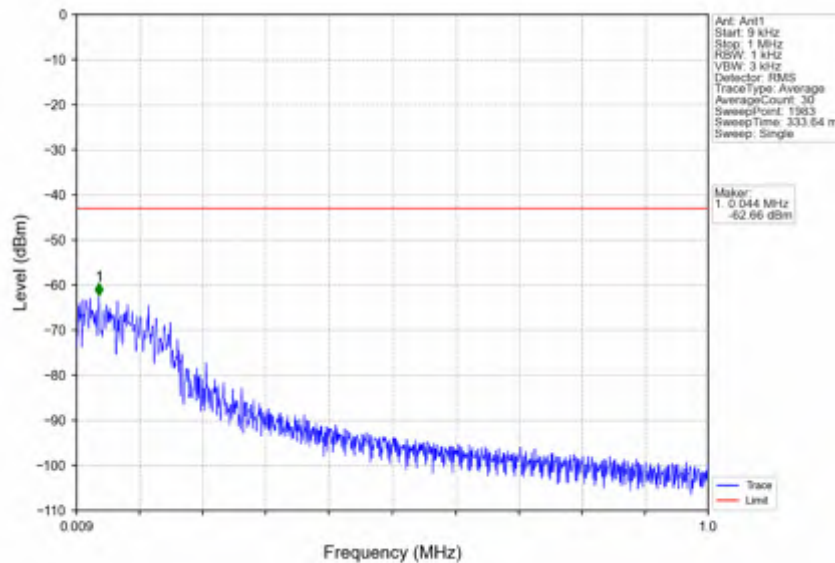
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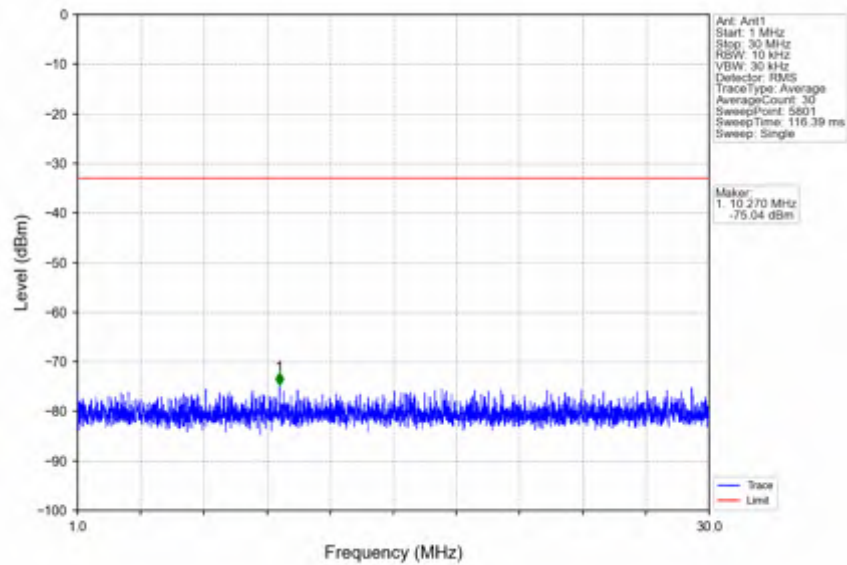


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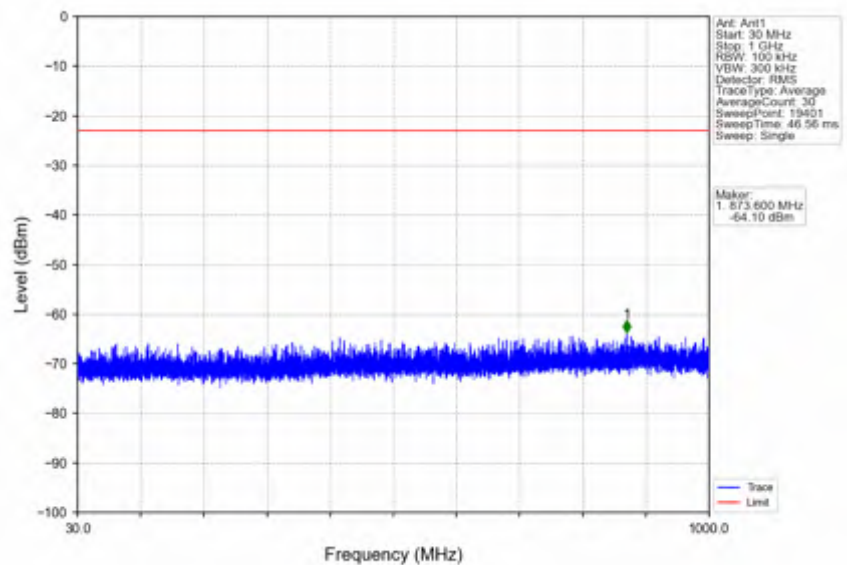
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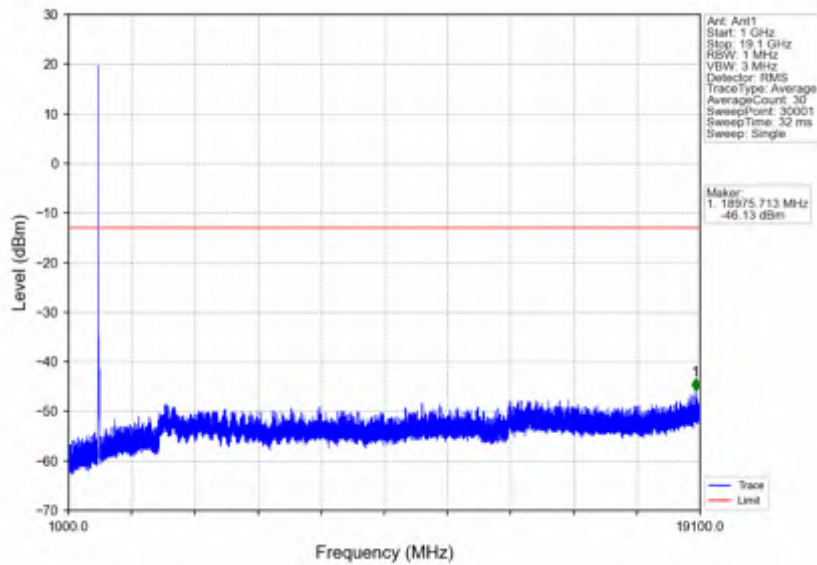
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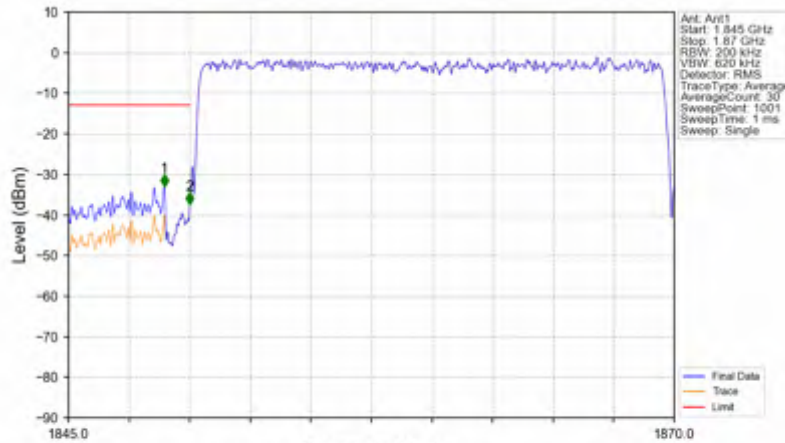
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	6.99	1	1848.950	-32.94	-13	Pass
1849	1850	0.2	0	2	1850.000	-37.35	-13	Pass
1850	1870	0.2	0	/	/	/	/	/



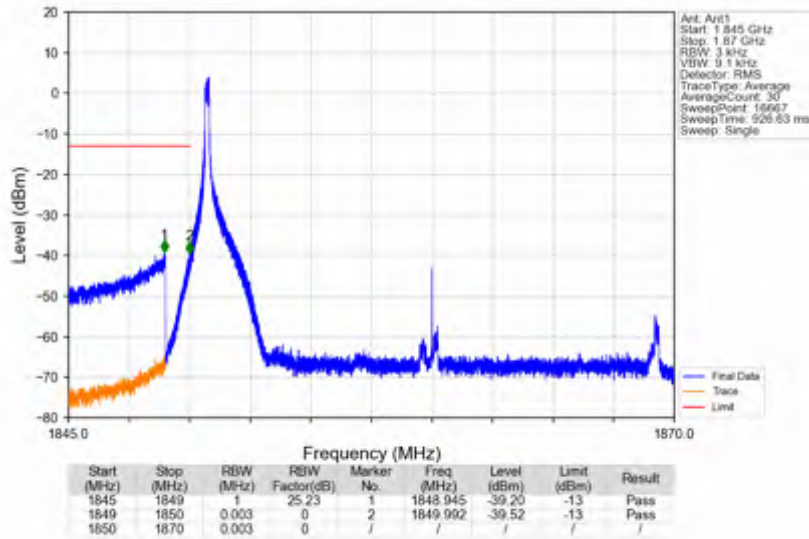
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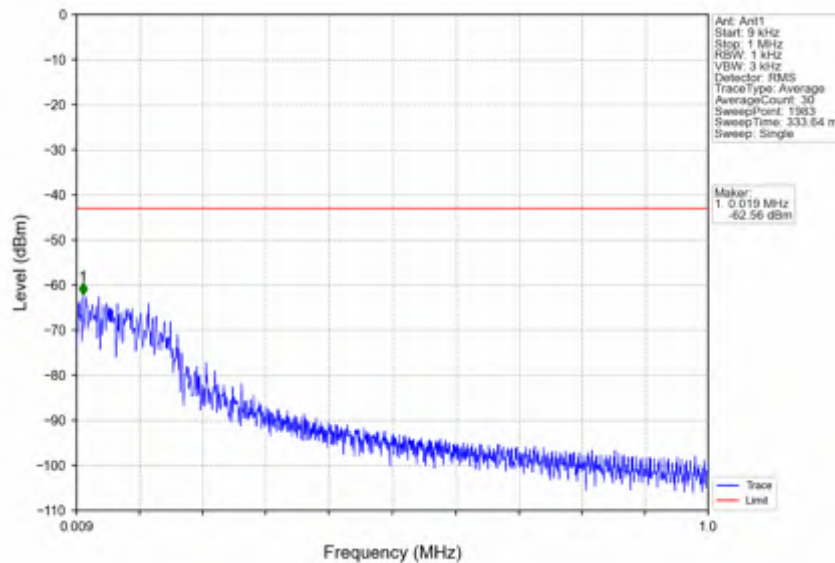
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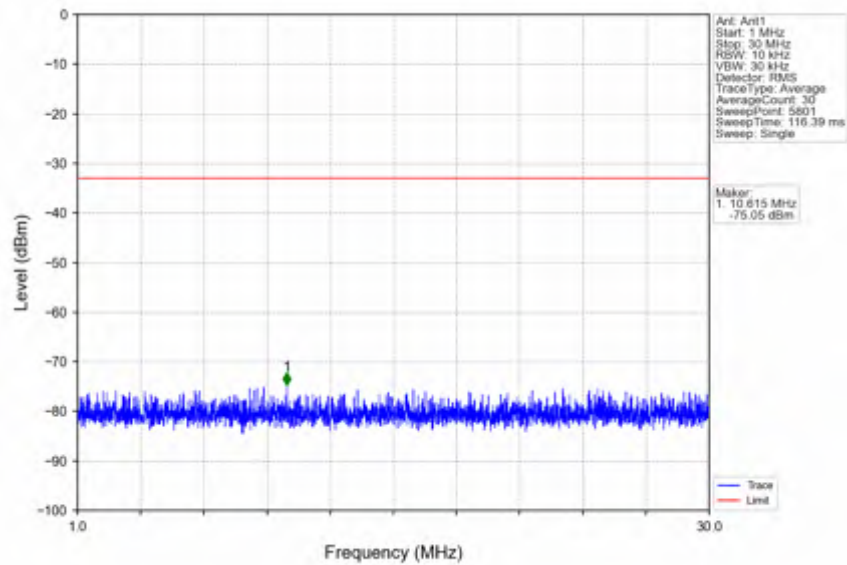


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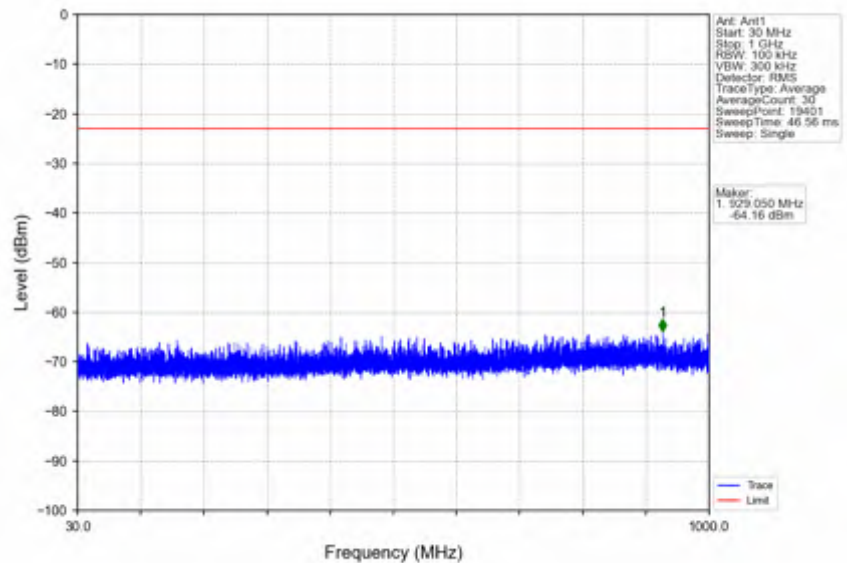
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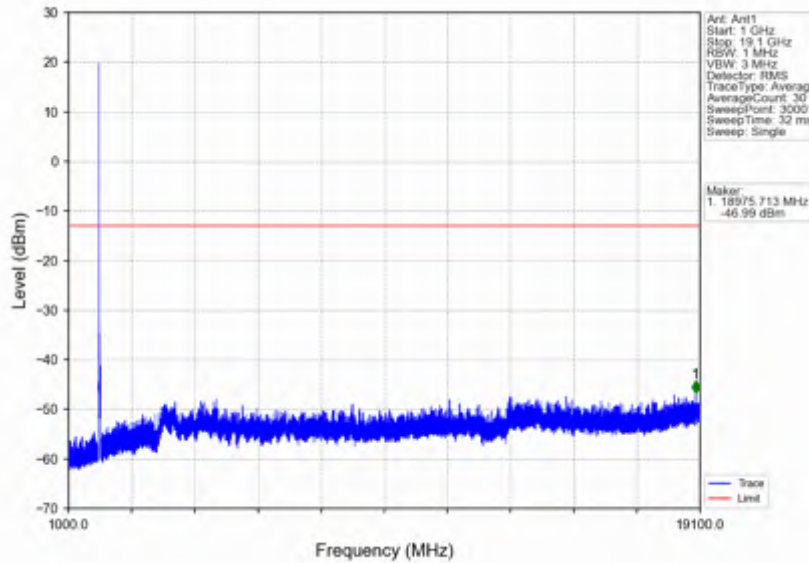
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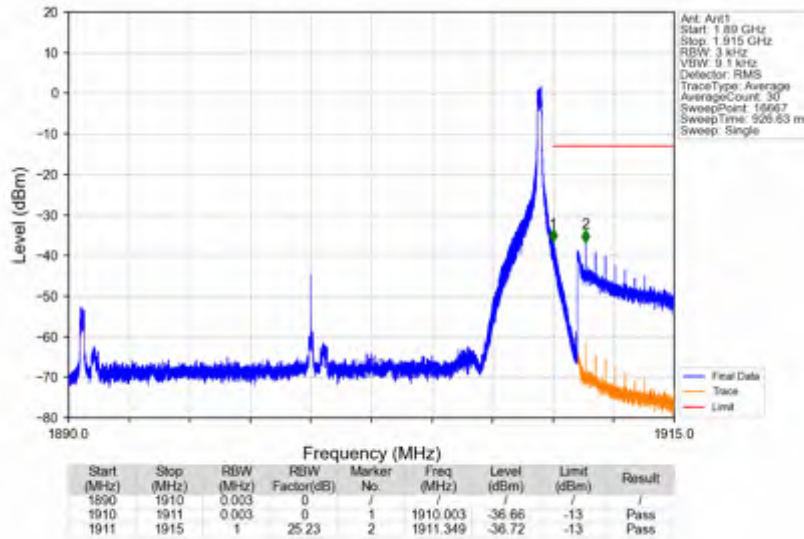
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Edge_1RB_Right



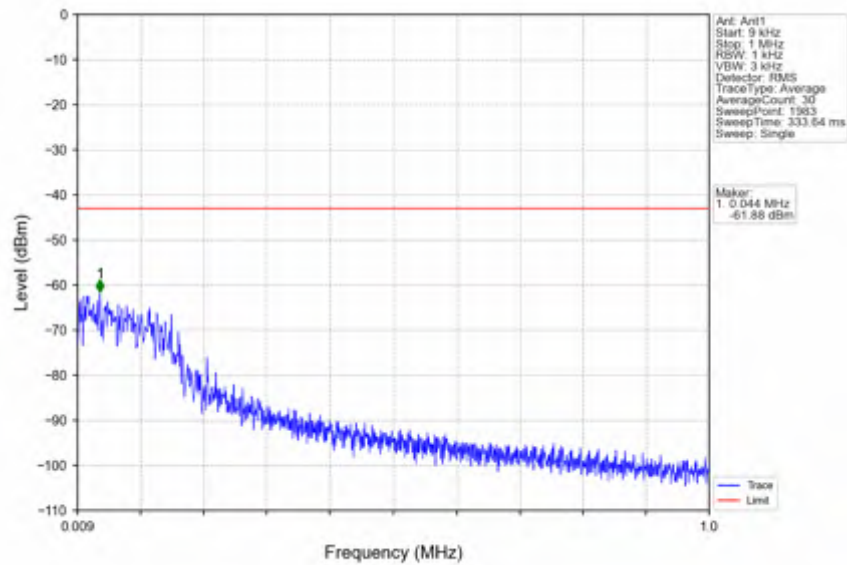
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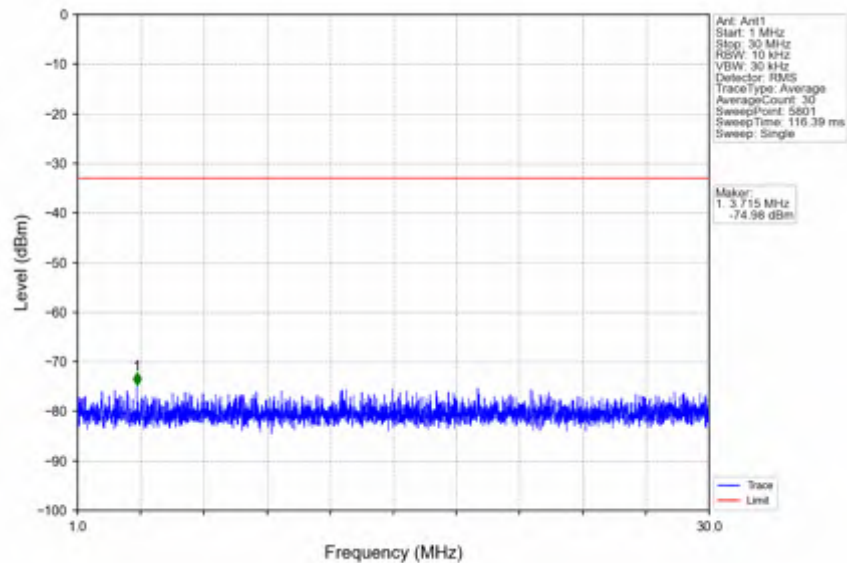
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Edge_1RB_Right



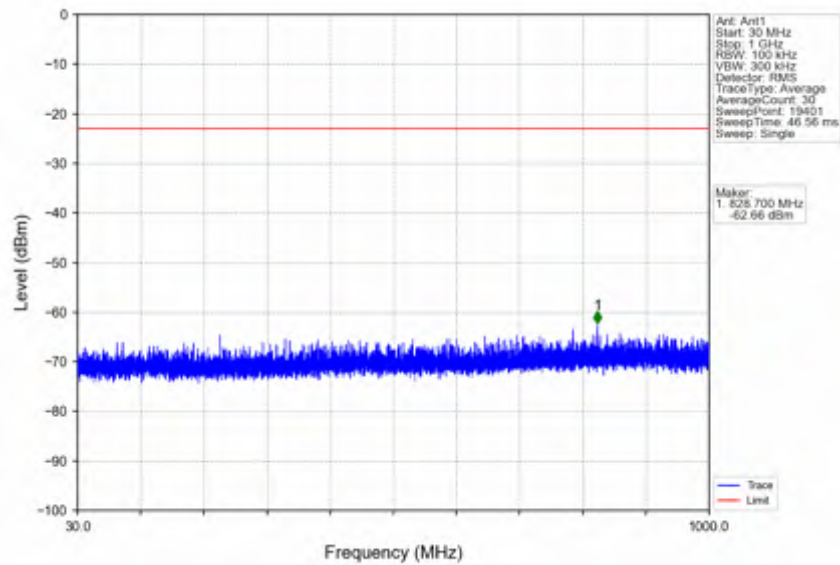
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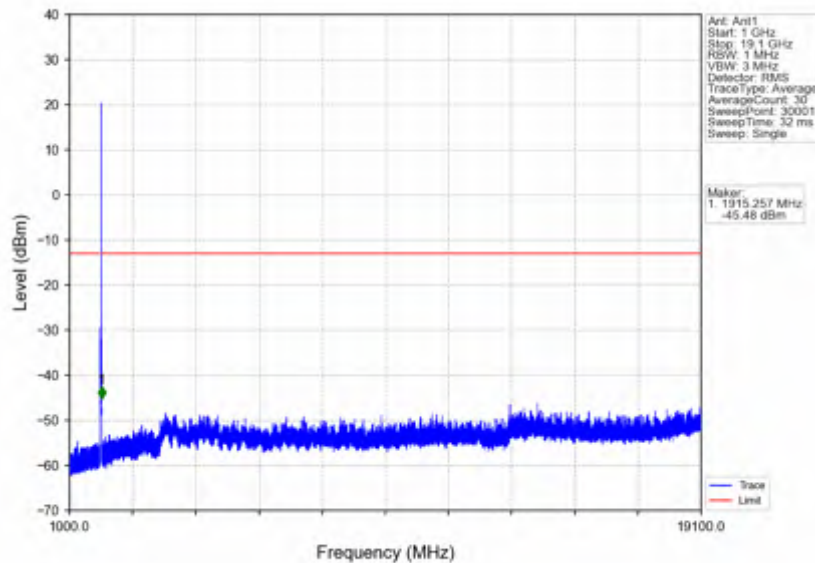
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Edge_1RB_Right



n2_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Edge_1RB_Right



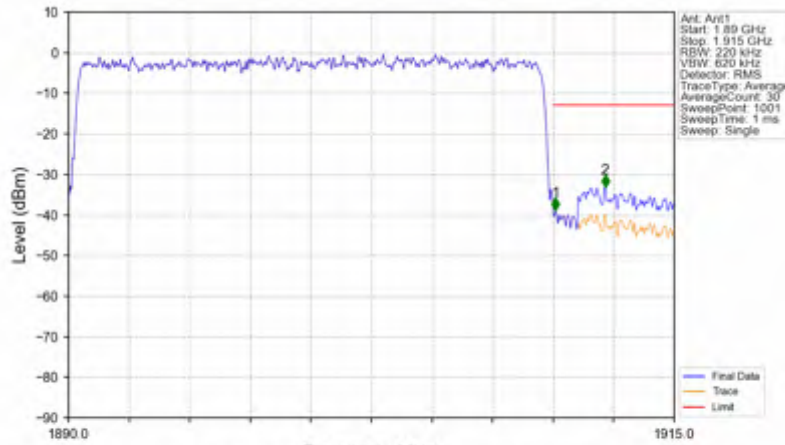
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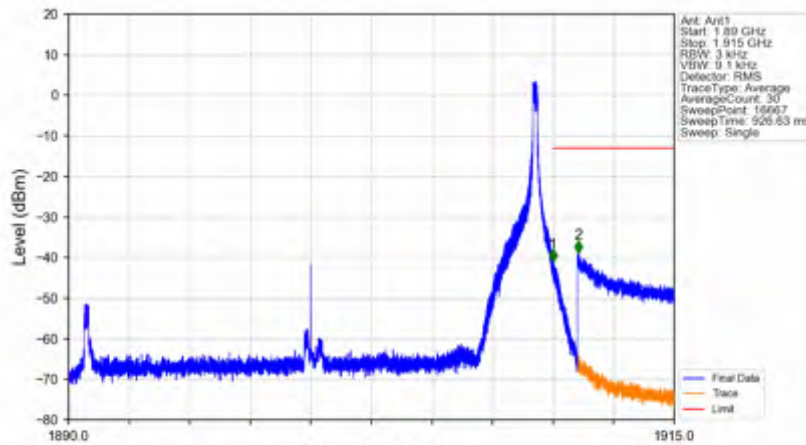
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1890	1910	0.22	0	/	/	/	/	/
1910	1911	0.22	0	1	1910.100	-38.87	-13	Pass
1911	1915	1	6.58	2	1912.150	-33.20	-13	Pass

n2_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1900MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1890	1910	0.003	0	/	/	/	/	/
1910	1911	0.003	0	1	1910.002	-41.06	-13	Pass
1911	1915	1	25.23	2	1911.035	-38.83	-13	Pass



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1.5 30k_SISO_10MHz_NTNV

1.5.1 Test Result

5G NR n2 SCS=30kHz SISO 10MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	1855	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	1855	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	1855	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
1905	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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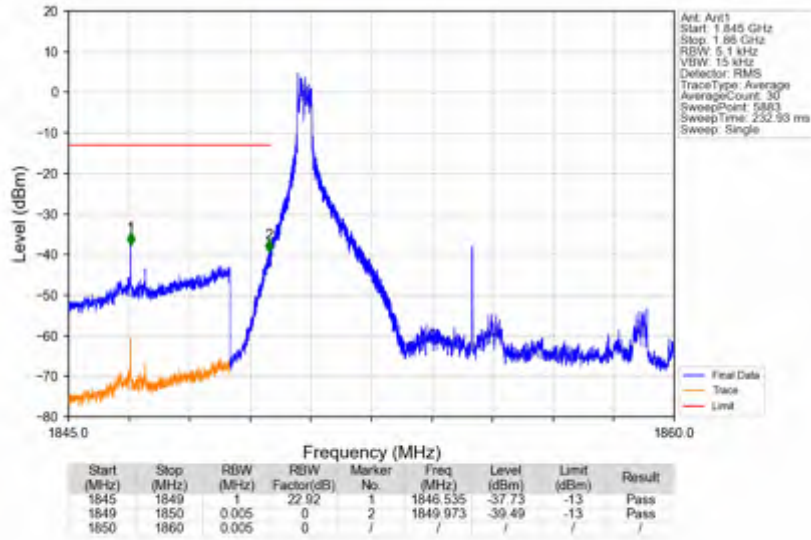
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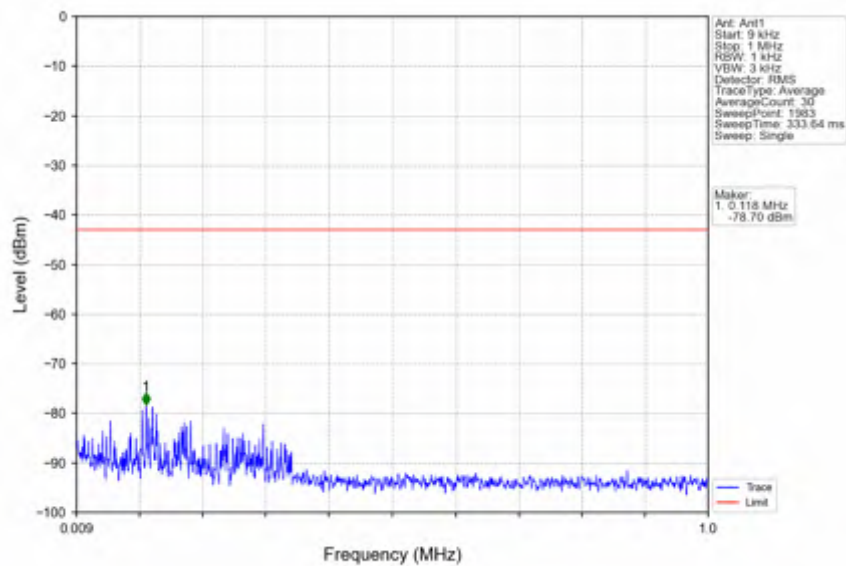
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1.5.2 Test Graph

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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_1855MHz_Edge_1RB_Left

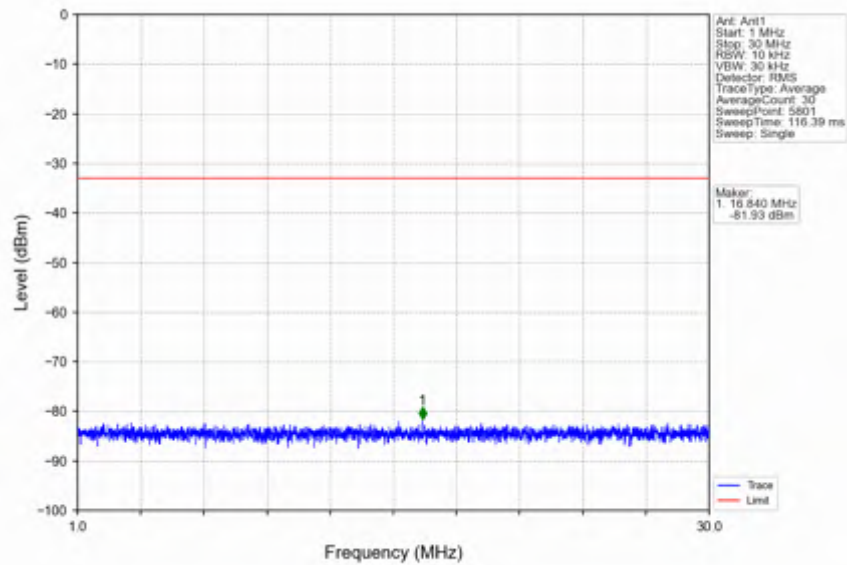


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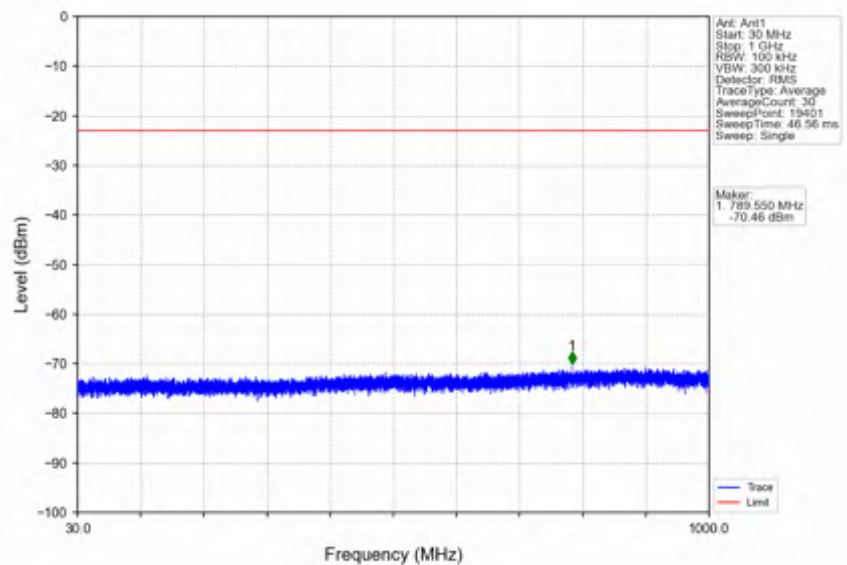
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1855MHz_Edge_1RB_Left



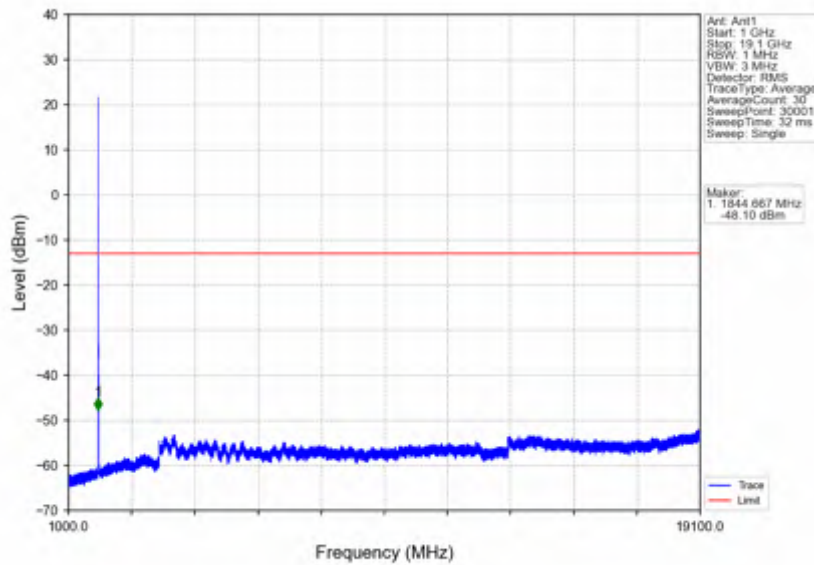
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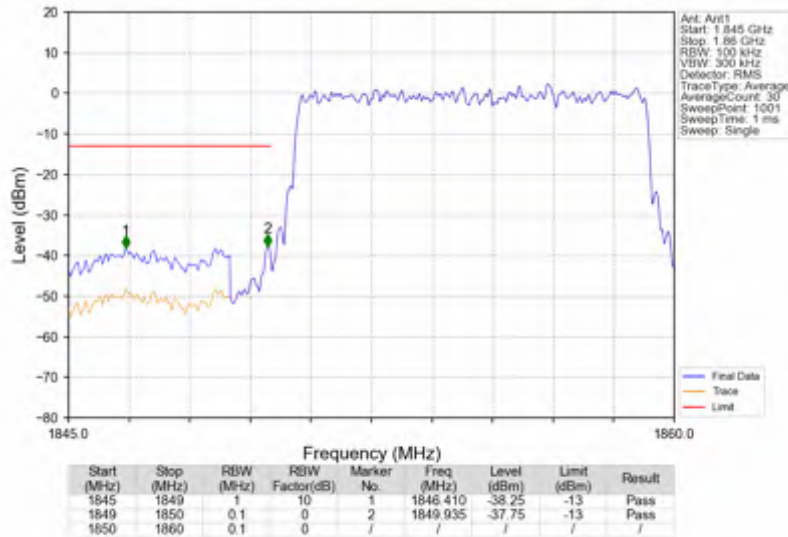
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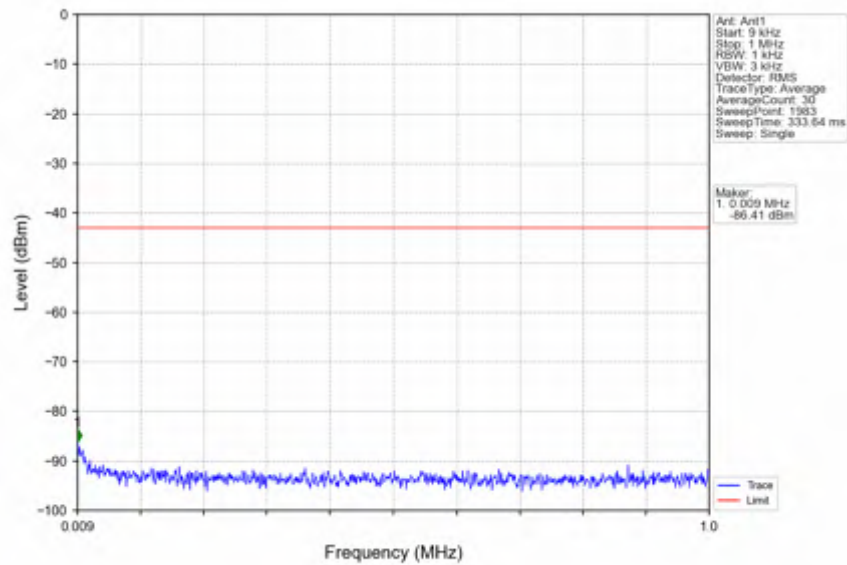
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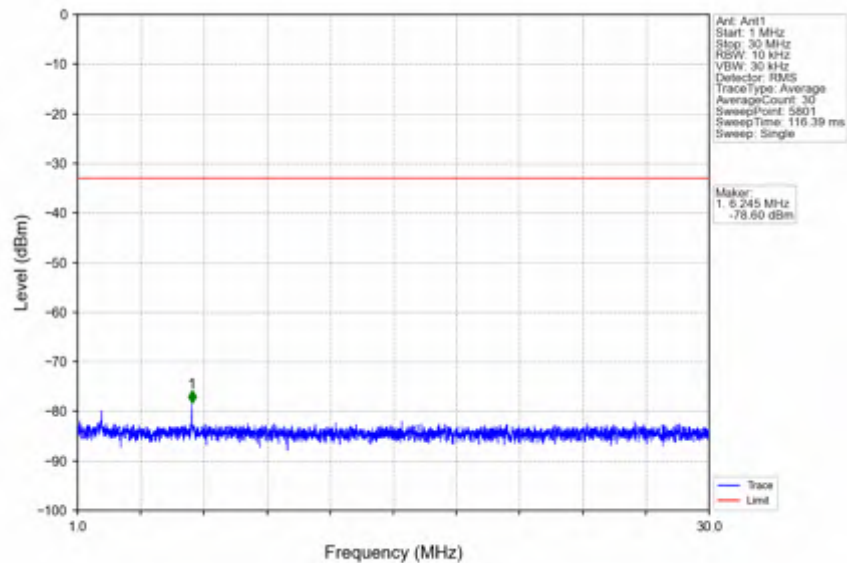
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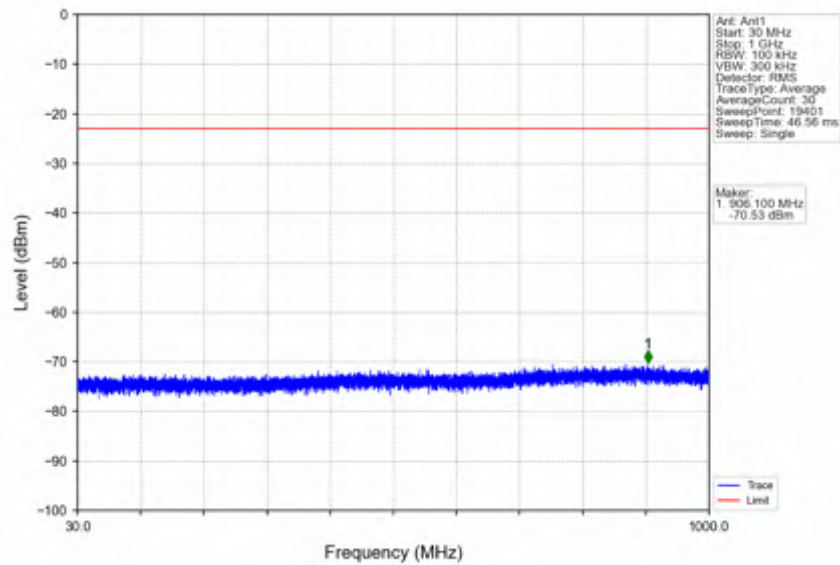
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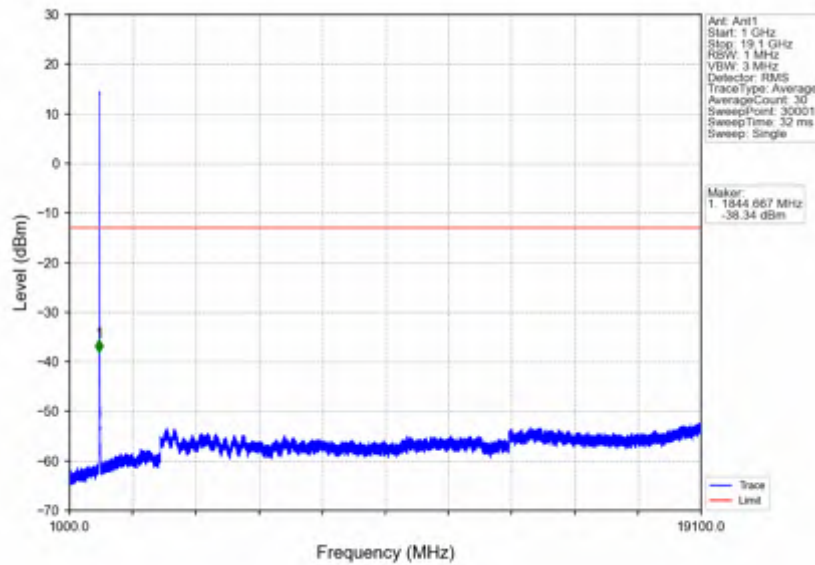
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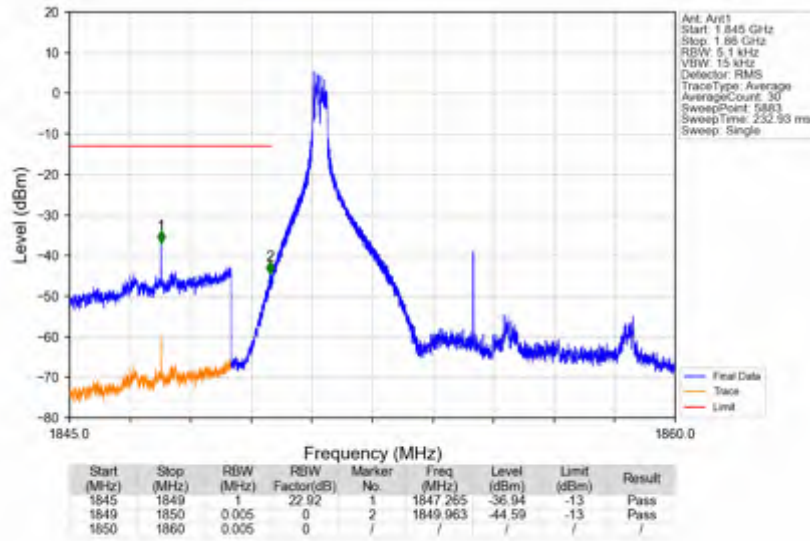
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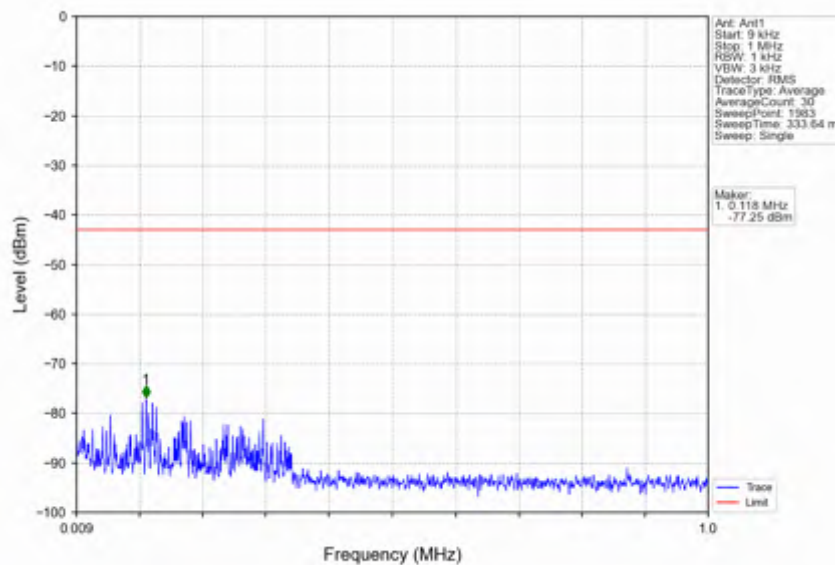
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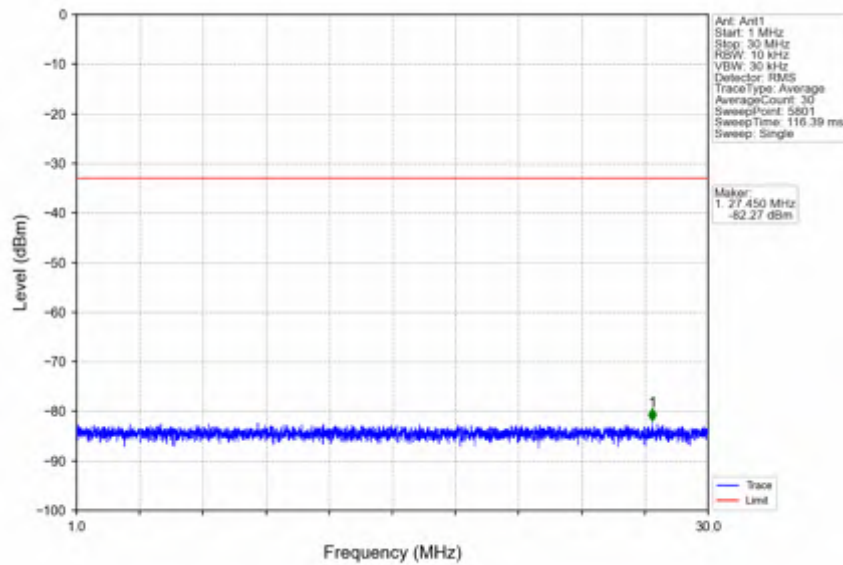


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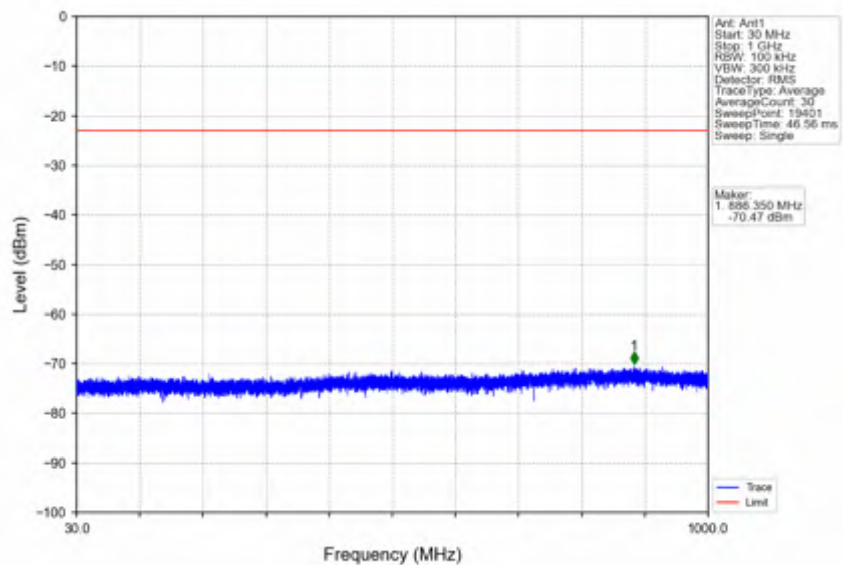
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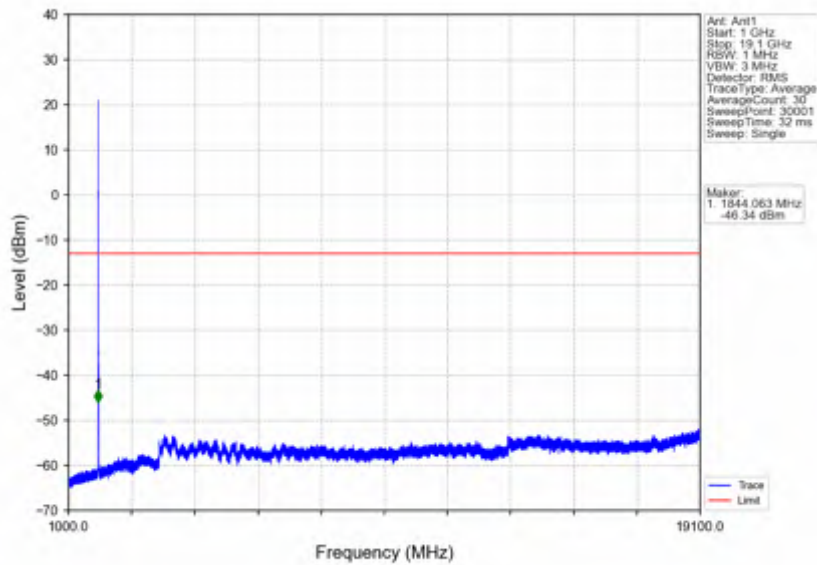


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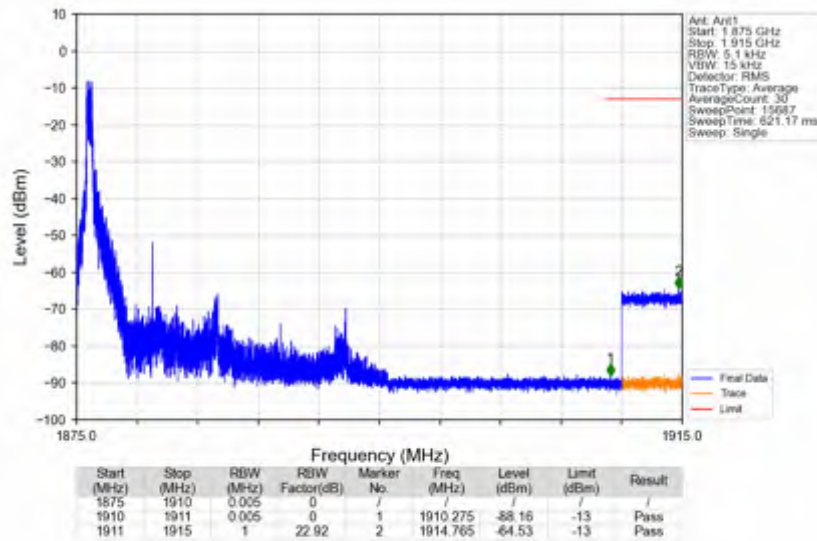
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Edge_1RB_Left



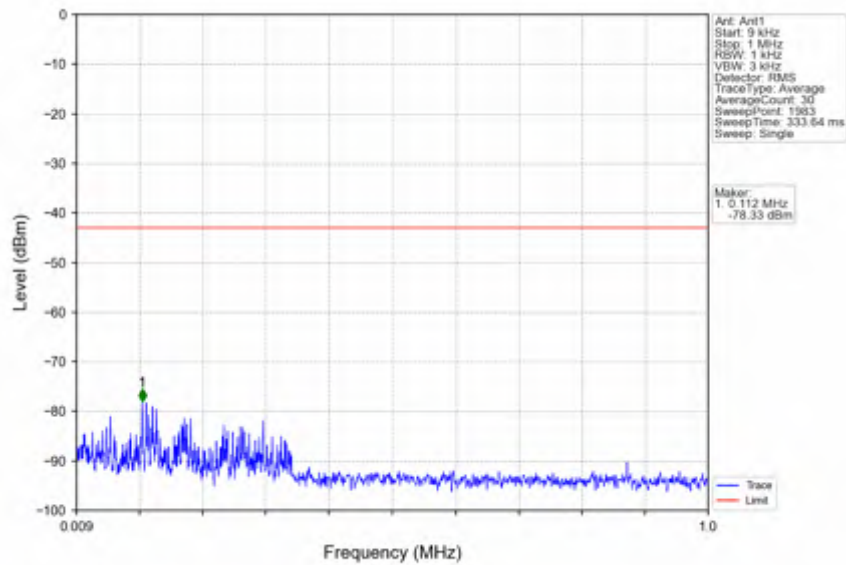
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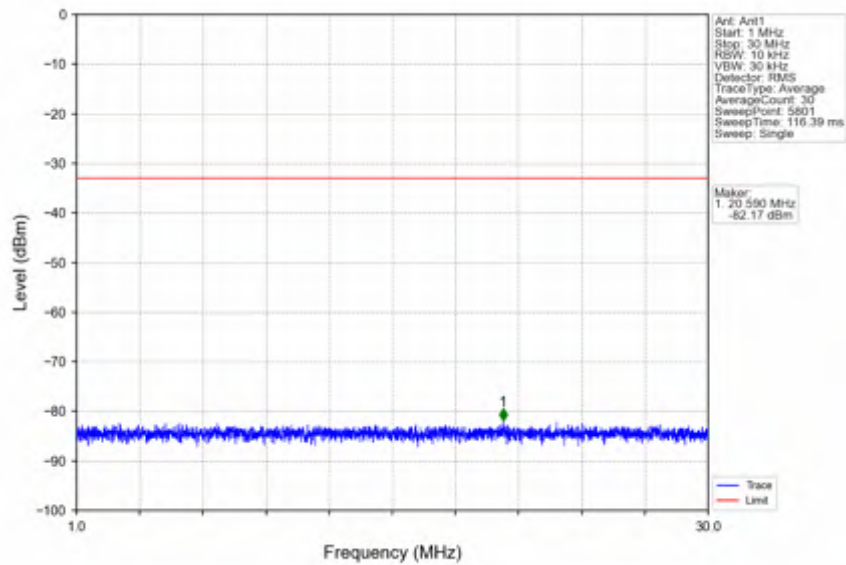
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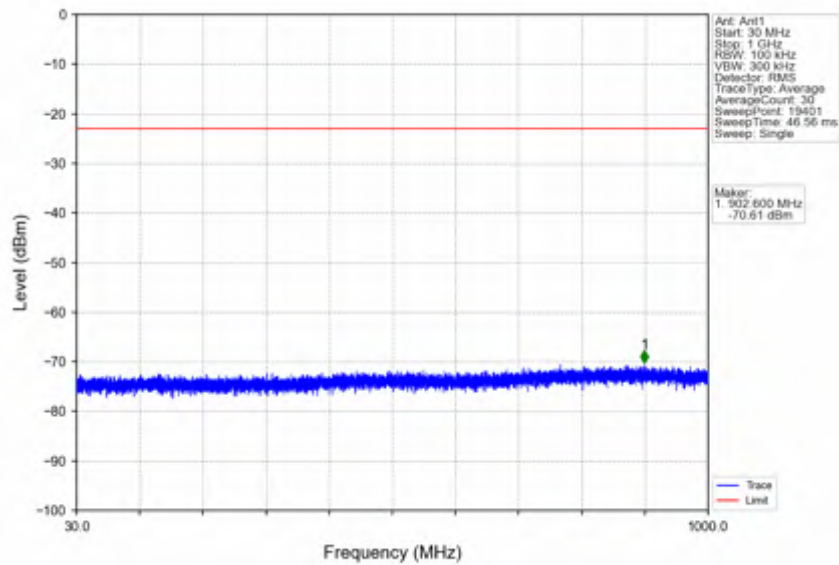
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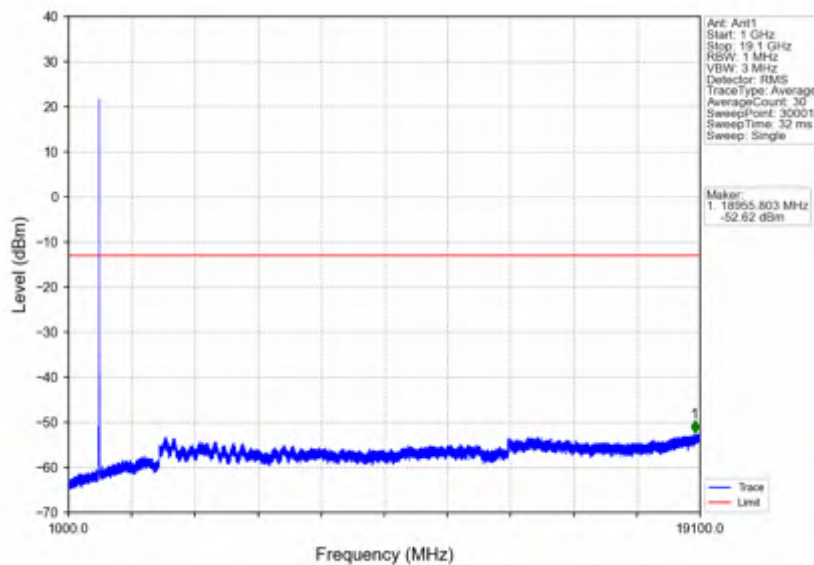
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Edge_1RB_Left



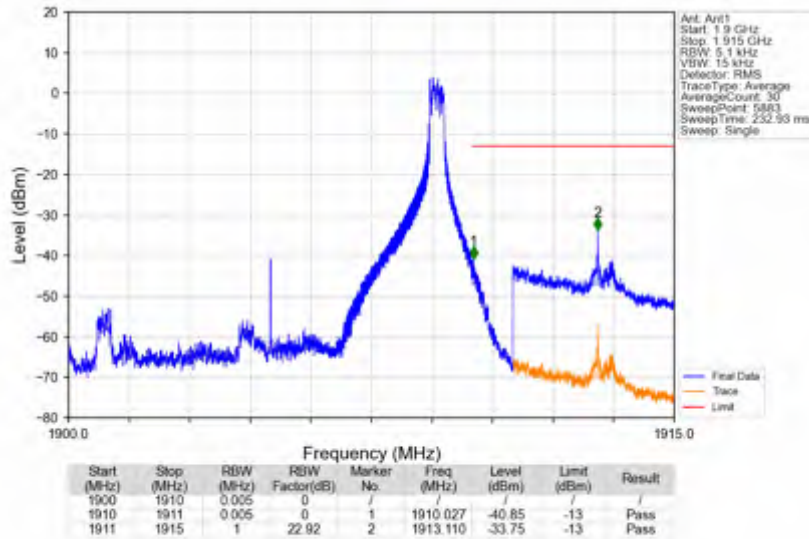
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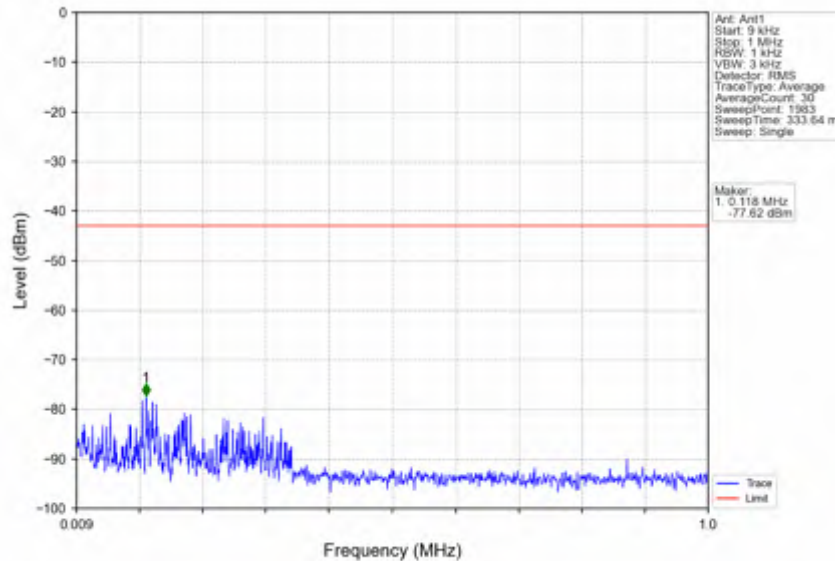
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Edge_1RB_Right

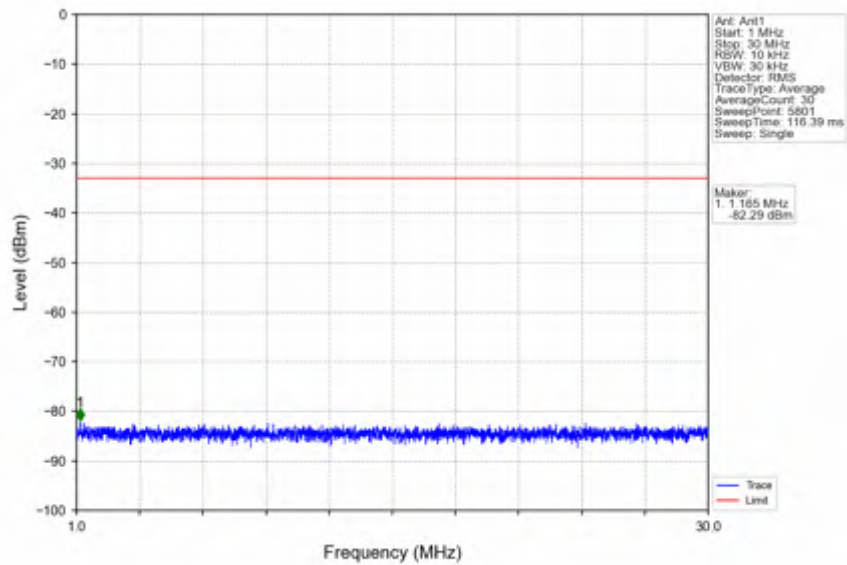


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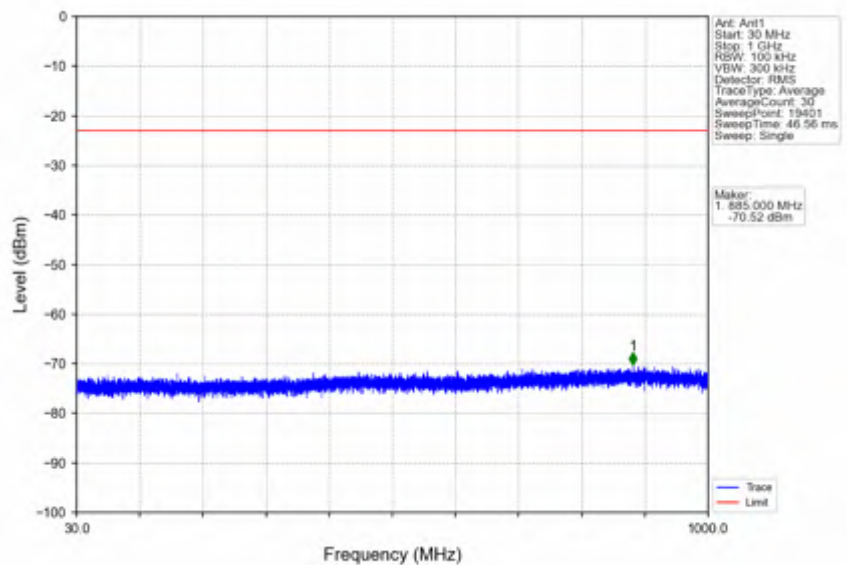
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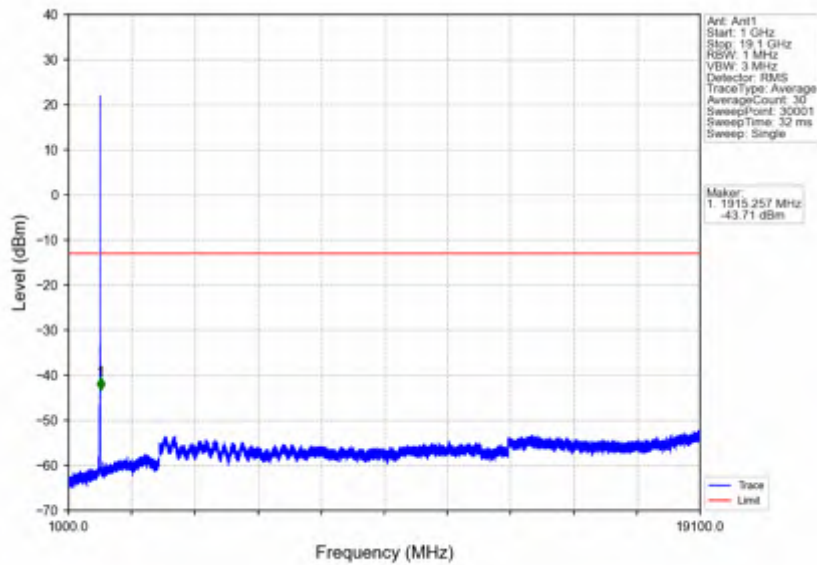


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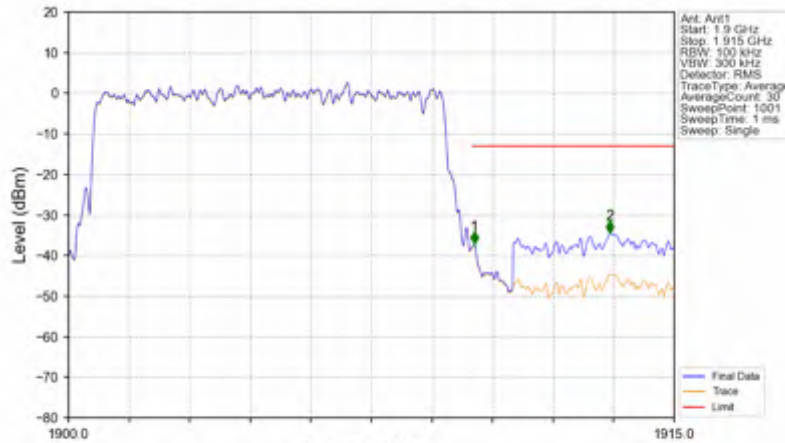
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1900	1910	0.107	0.29	/	/	/	/	/
1910	1911	0.107	0.29	1	1910.050	-37.17	-13	Pass
1911	1915	1	10	2	1913.410	-34.58	-13	Pass



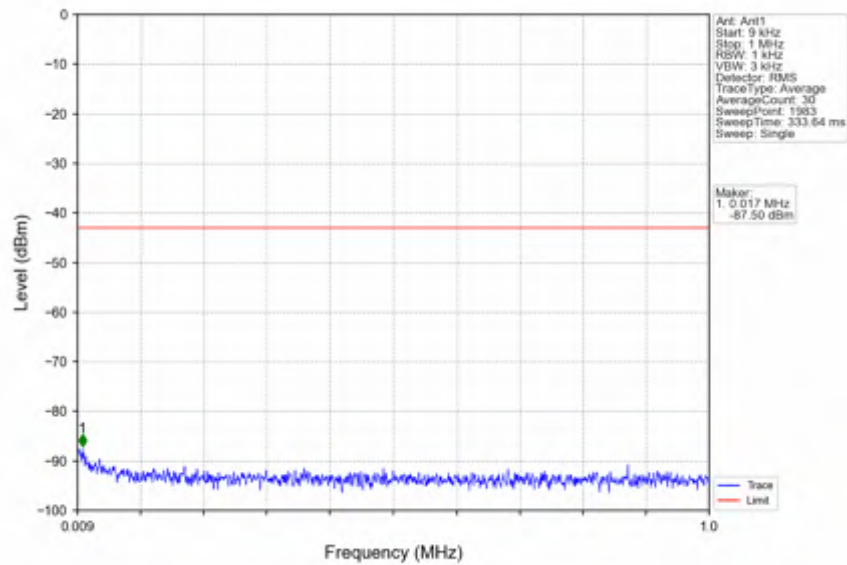
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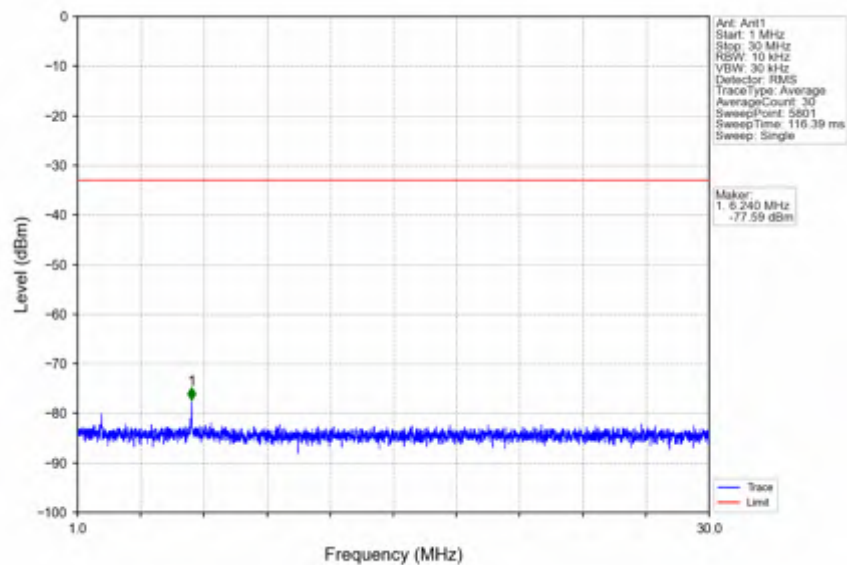
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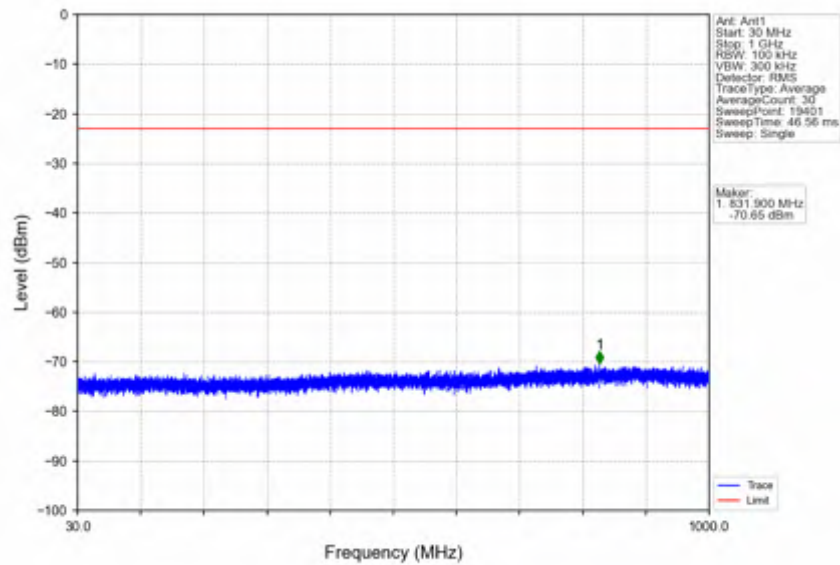
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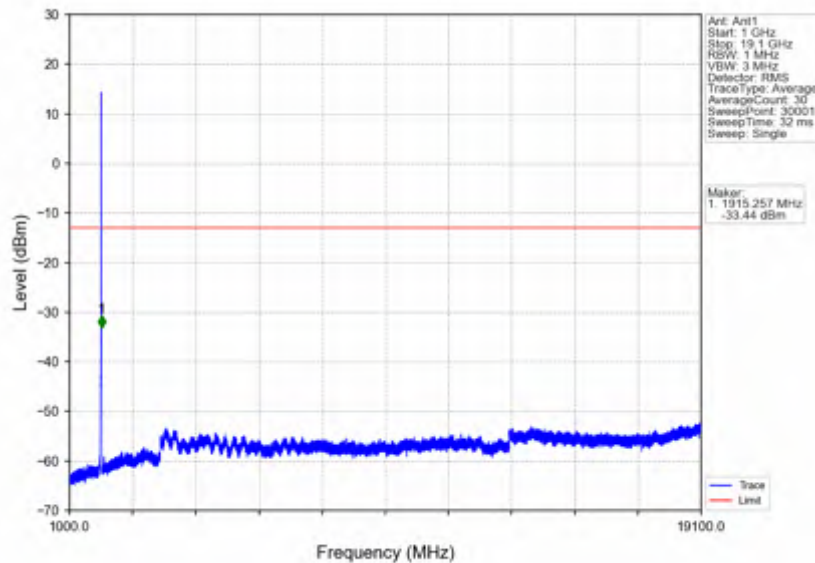
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Outer_Full



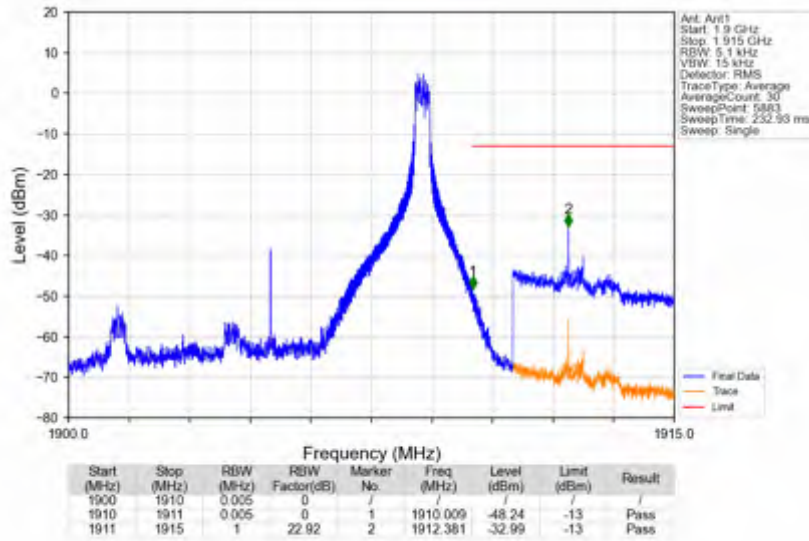
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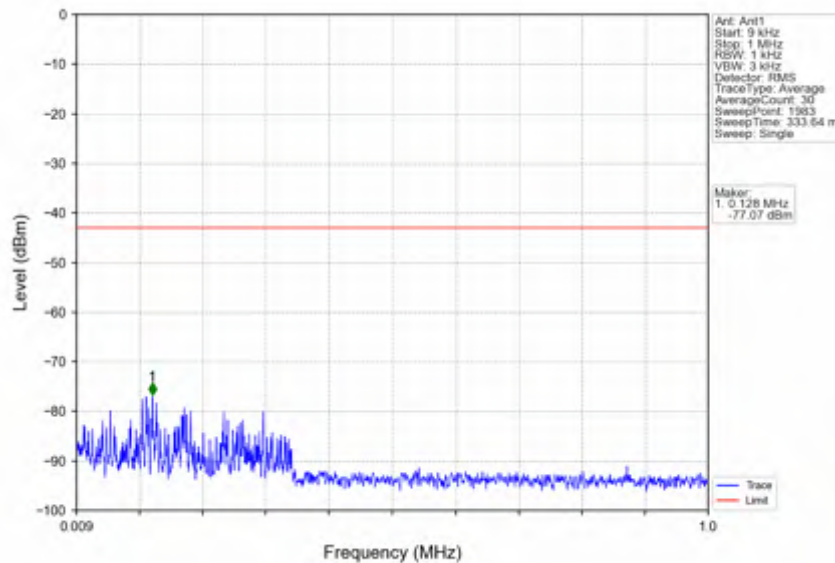
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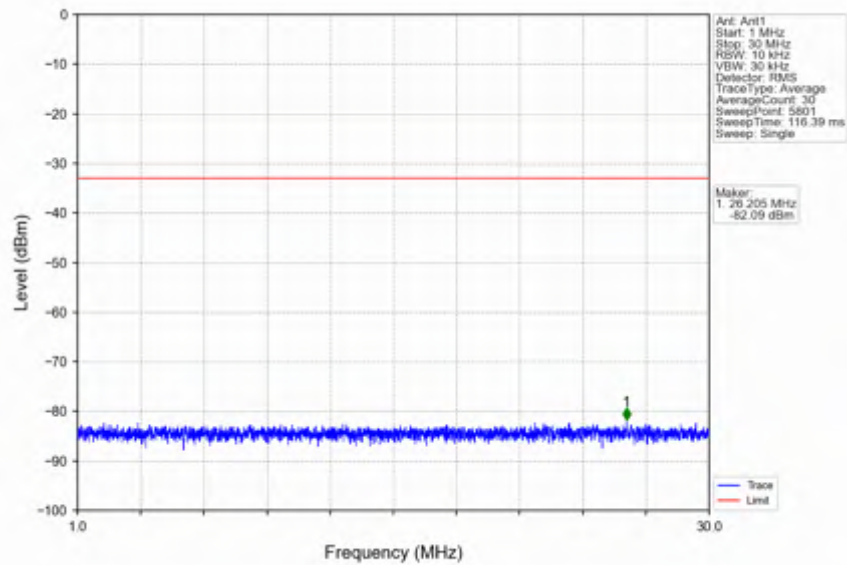


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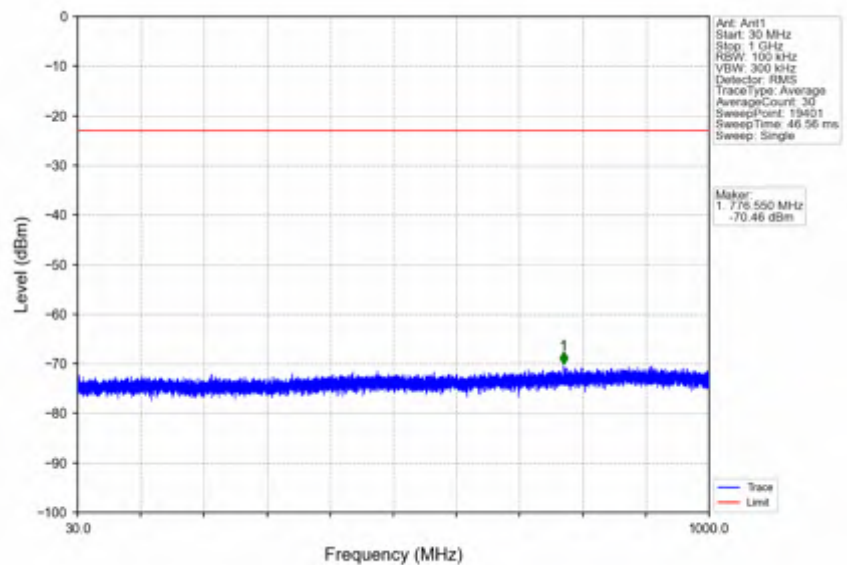
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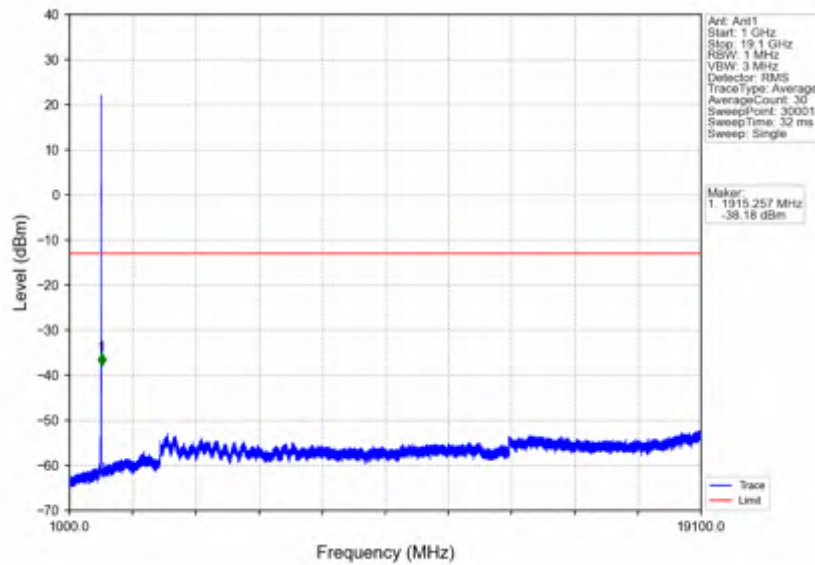
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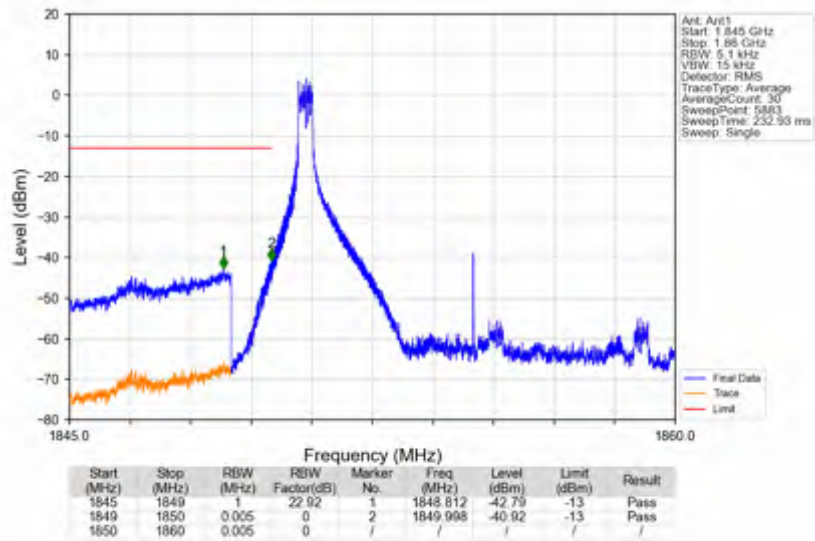
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Edge_1RB_Left

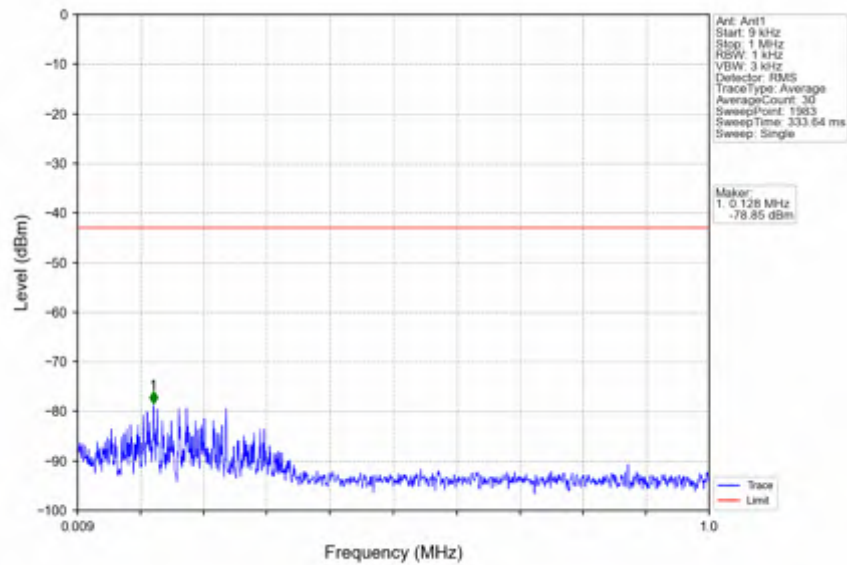


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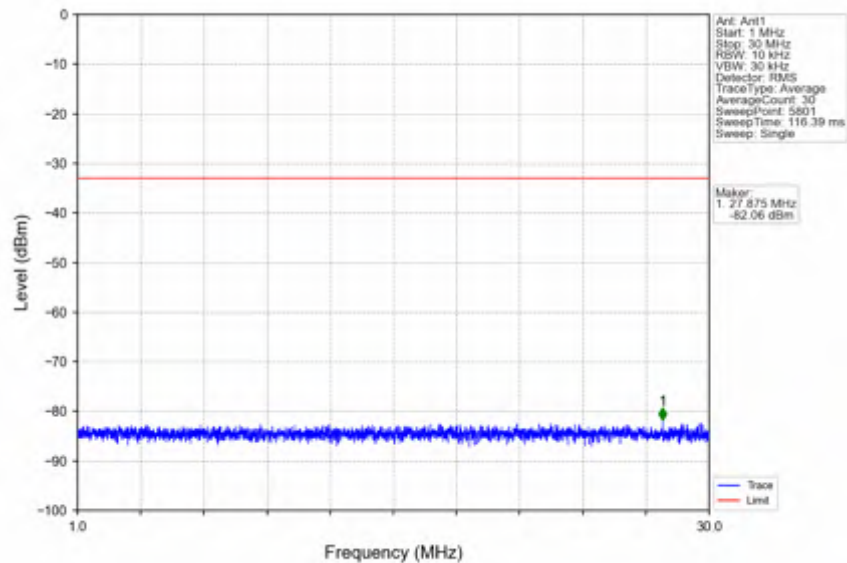
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n2_30kHz_SISO_NTV_10MHz_DFT-s-OFDM QPSK_1855MHz_Edge_1RB_Left



n2_30kHz_SISO_NTV_10MHz_DFT-s-OFDM QPSK_1855MHz_Edge_1RB_Left



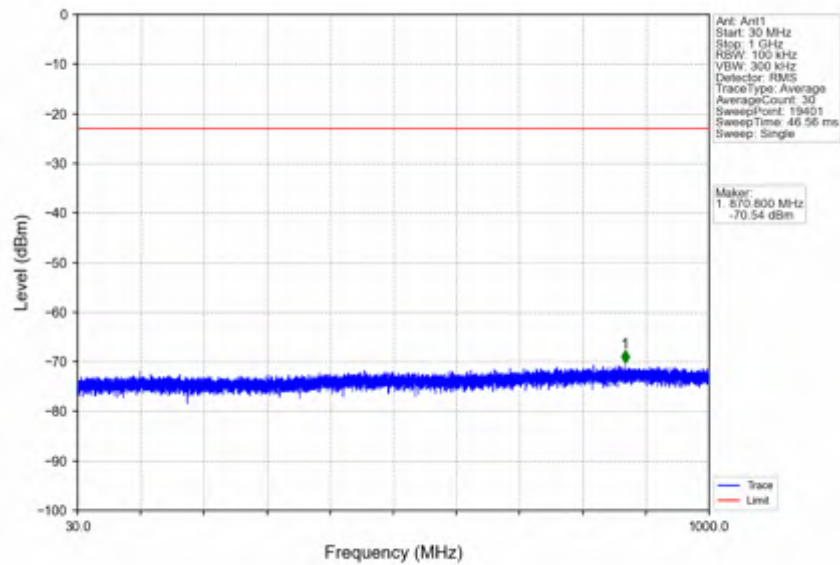
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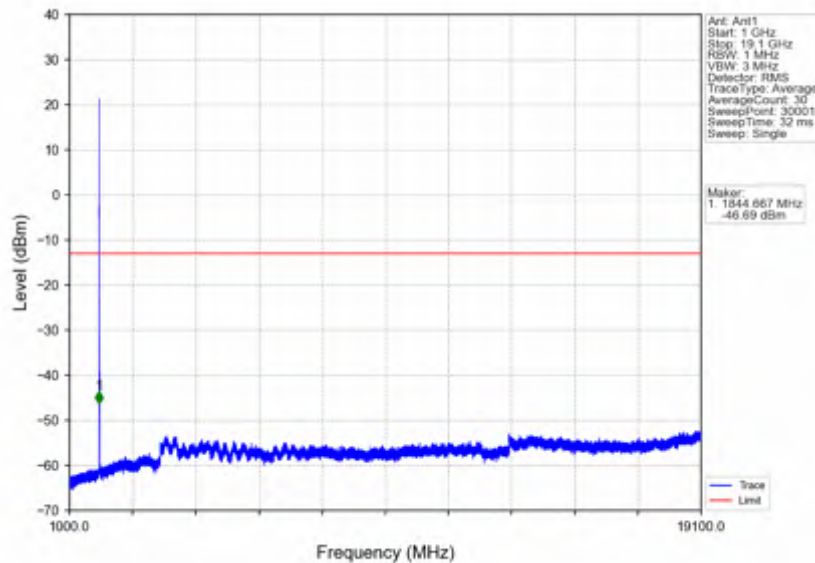
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Edge_1RB_Left



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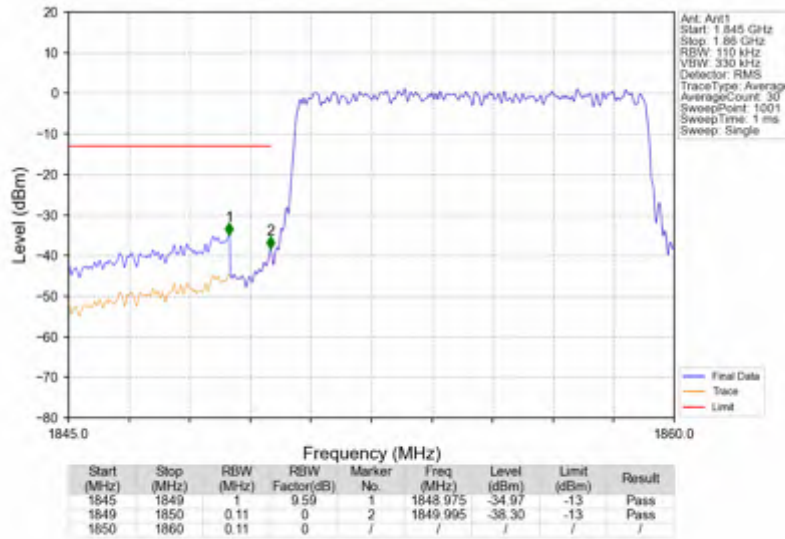
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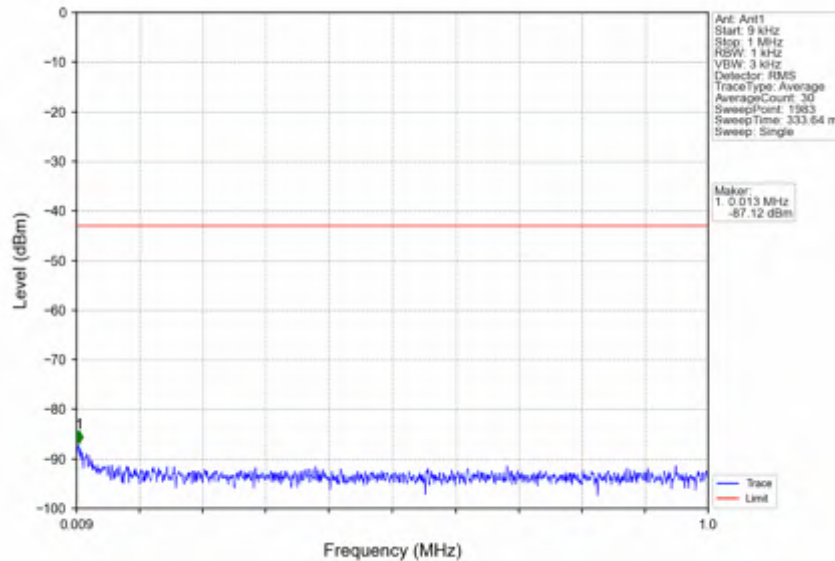
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1855MHz_Outer_Full



n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1855MHz_Outer_Full

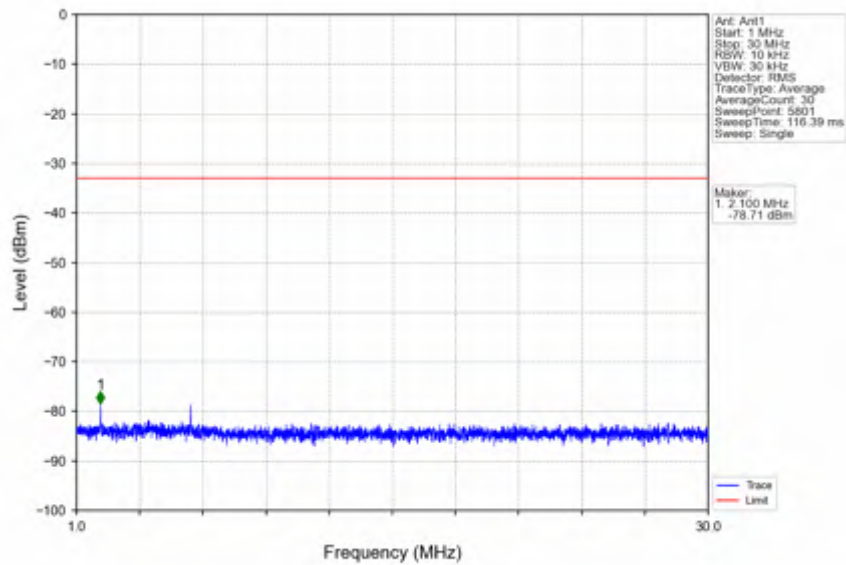


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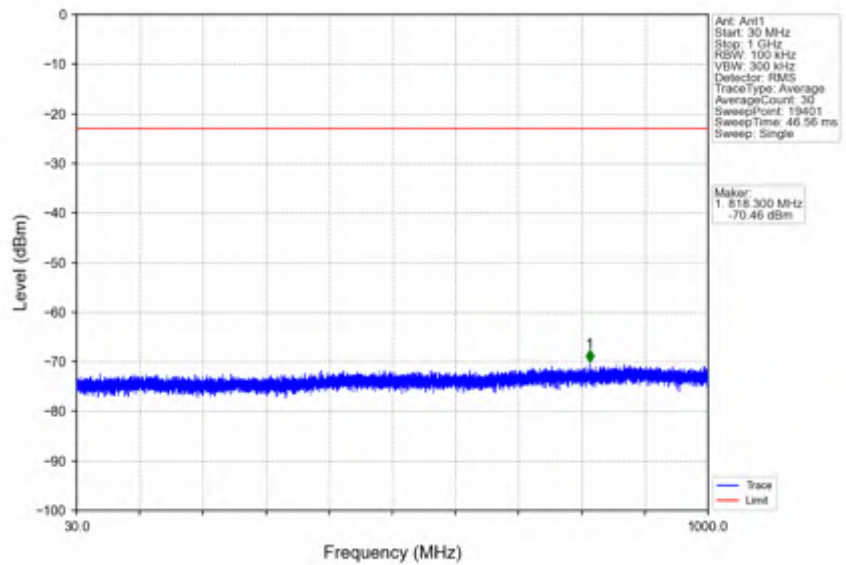
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1855MHz_Outer_Full



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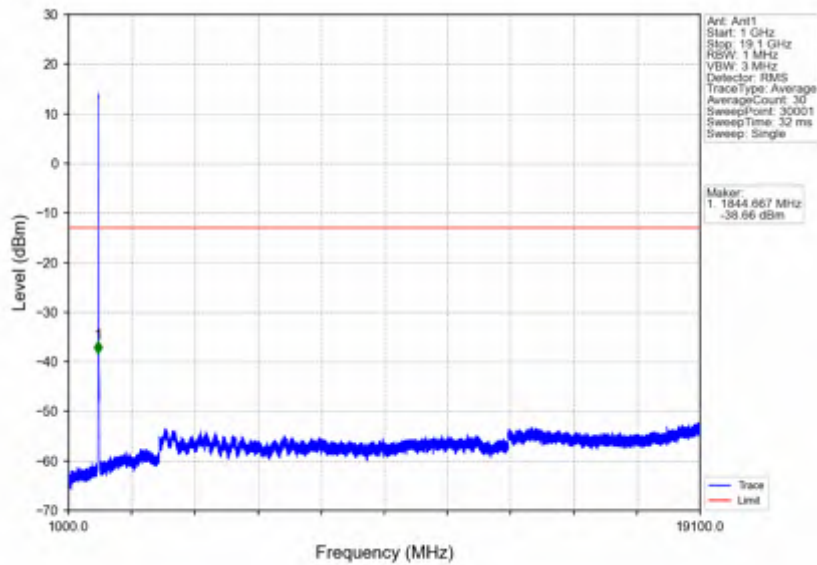
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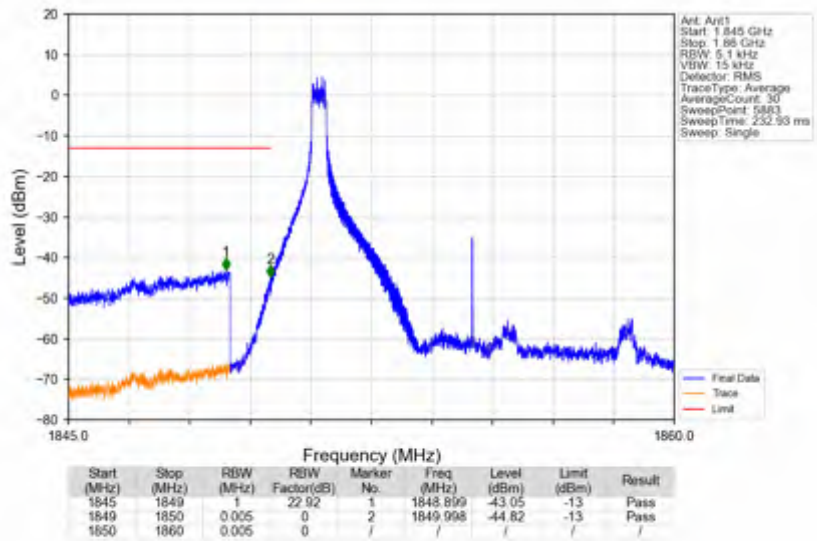
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n2_30kHz_SISO_NTV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full



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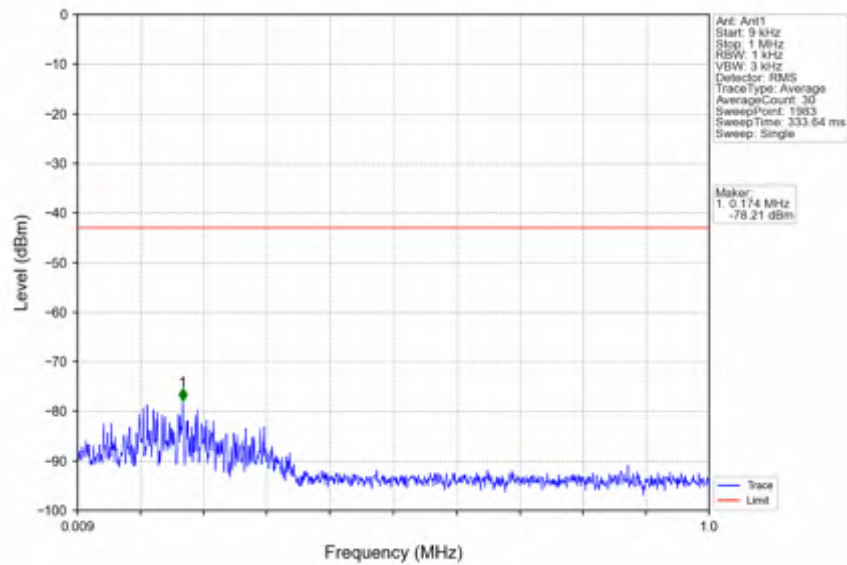
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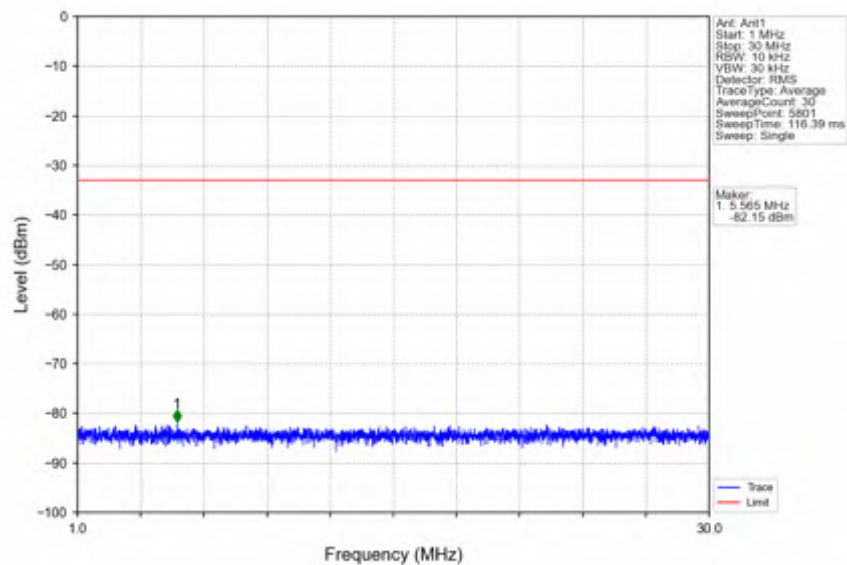
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n2_30kHz_SISO_NTV_10MHz_DFT-s-OFDM QPSK_1855MHz_Inner_1RB_Left



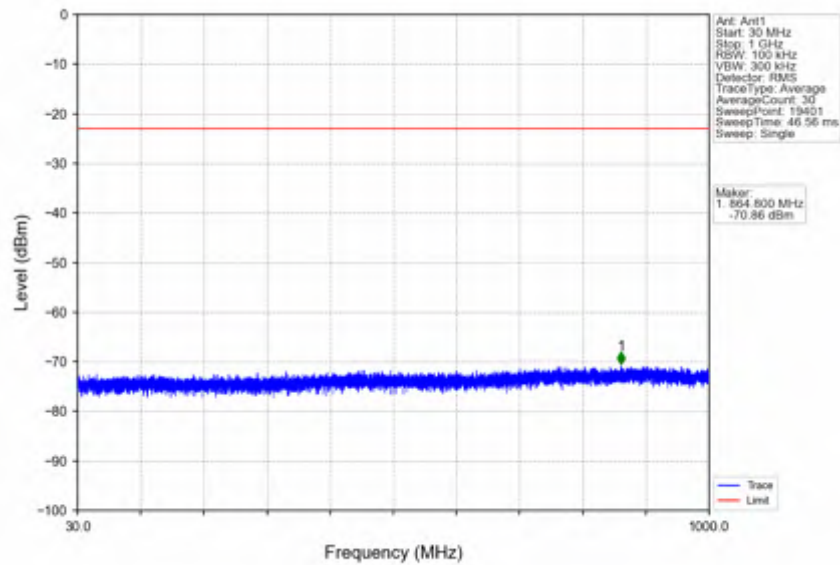
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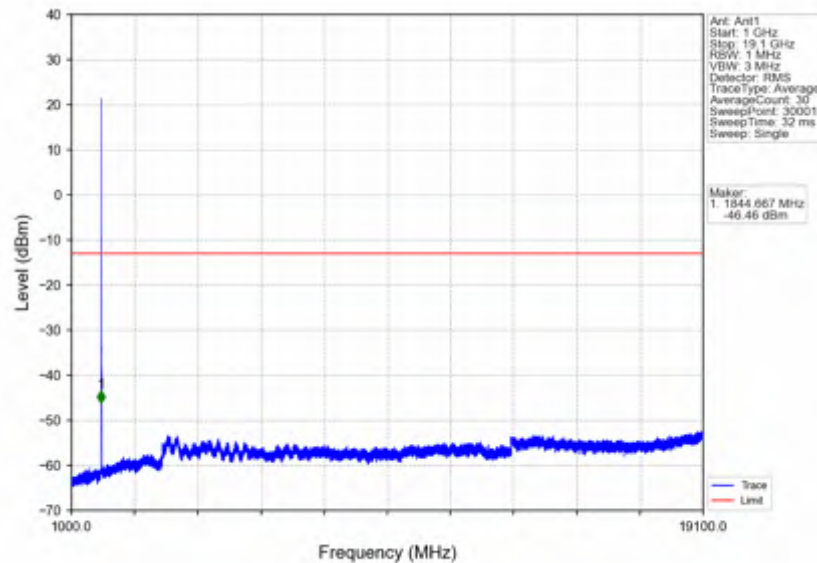
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Inner_1RB_Left



n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Inner_1RB_Left

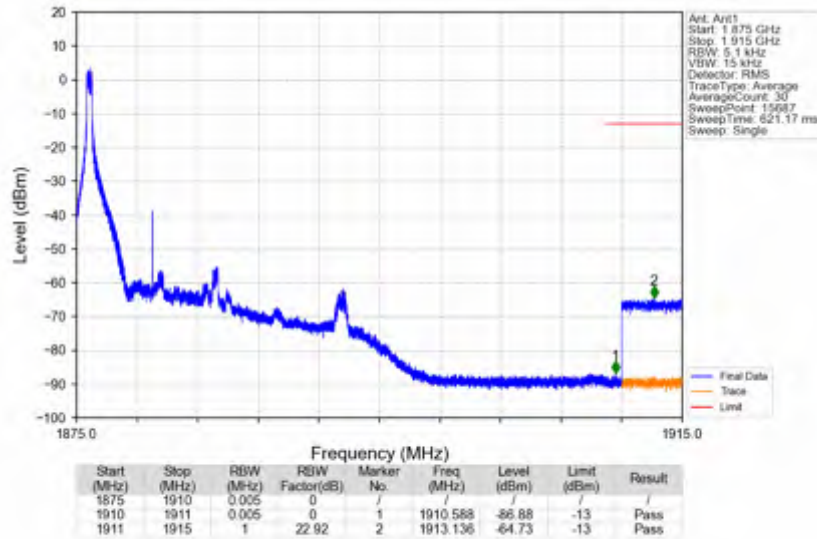


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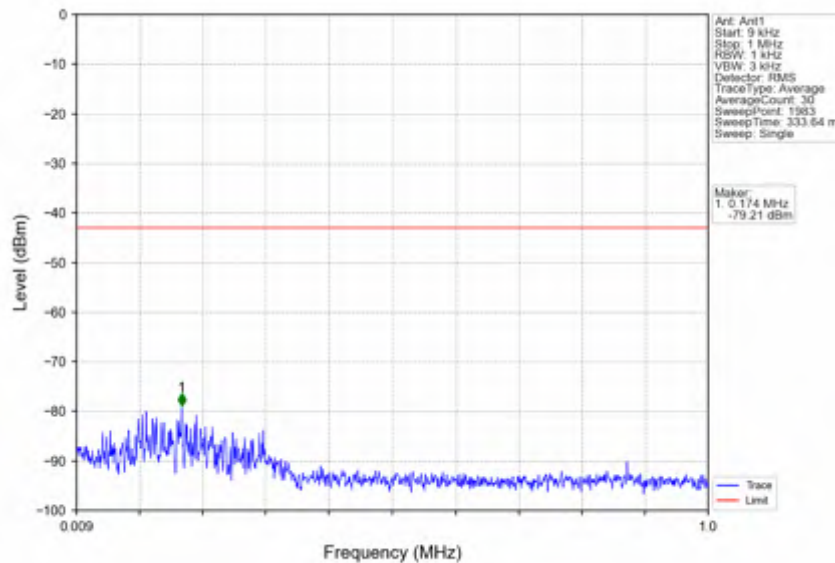
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n2_30kHz_SISO_NTV_10MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left



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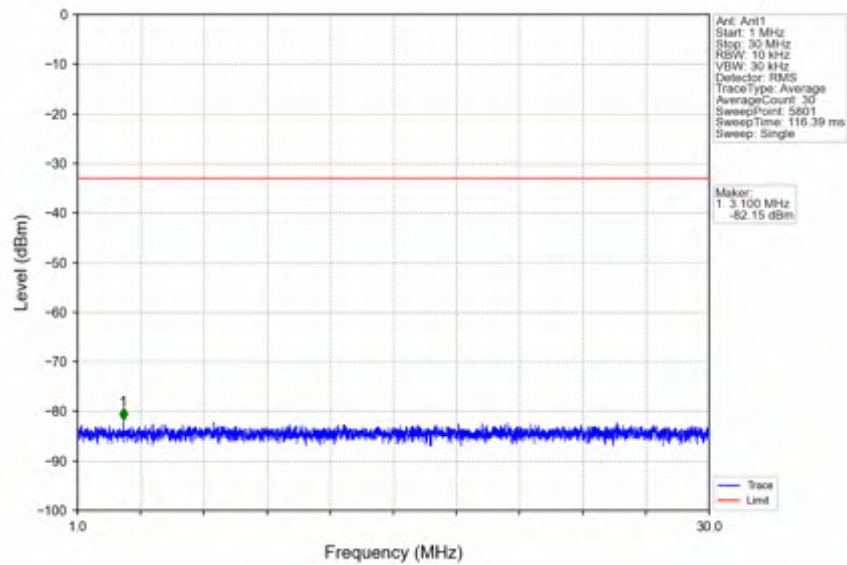


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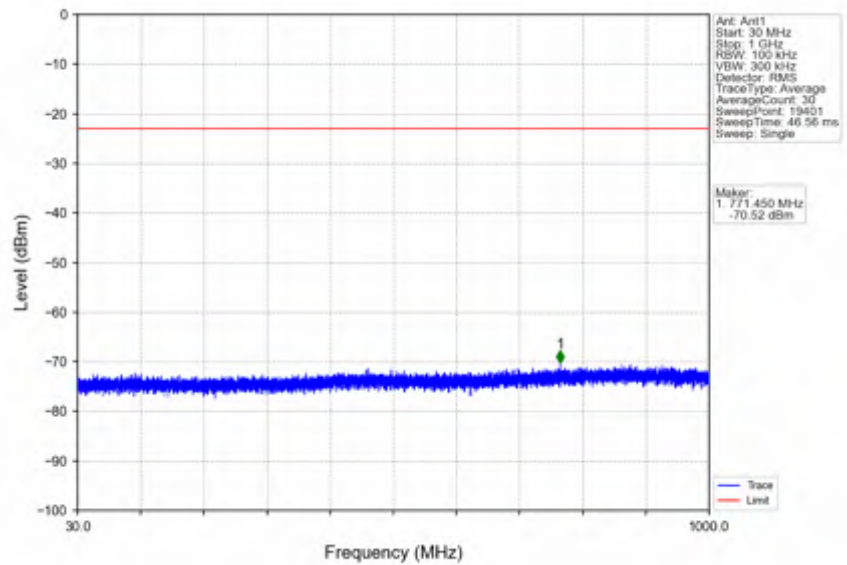
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n2_30kHz_SISO_NTV_10MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left



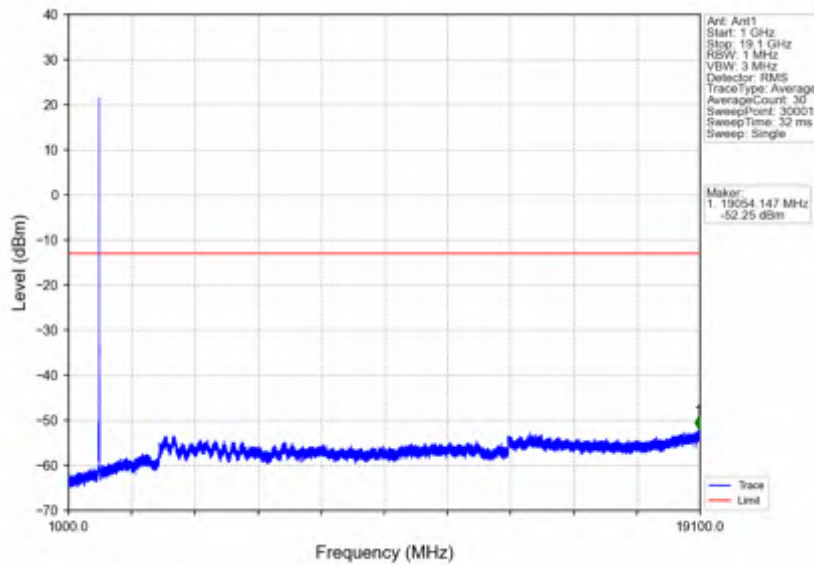
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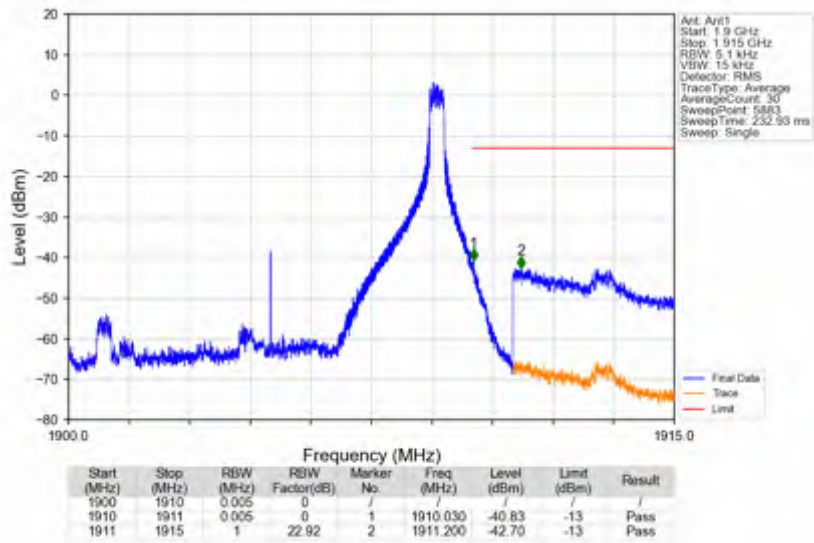
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1880MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Edge_1RB_Right



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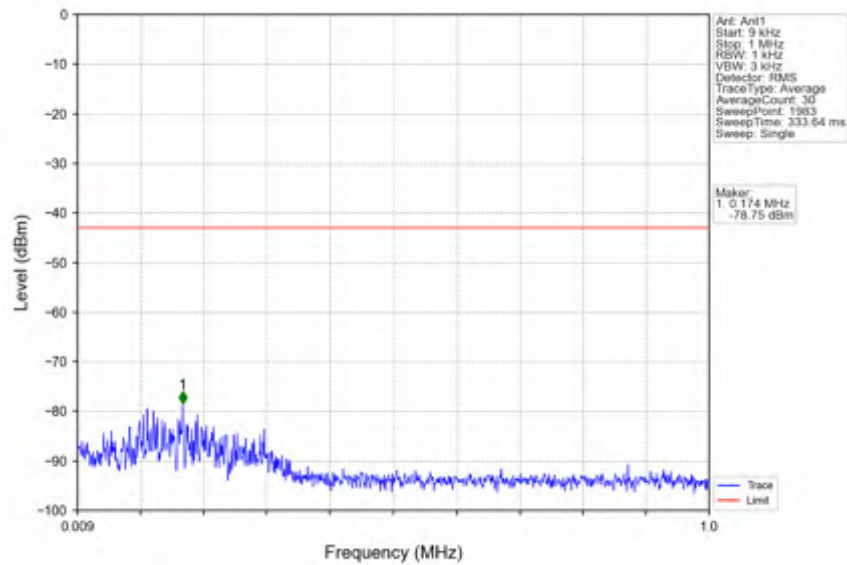
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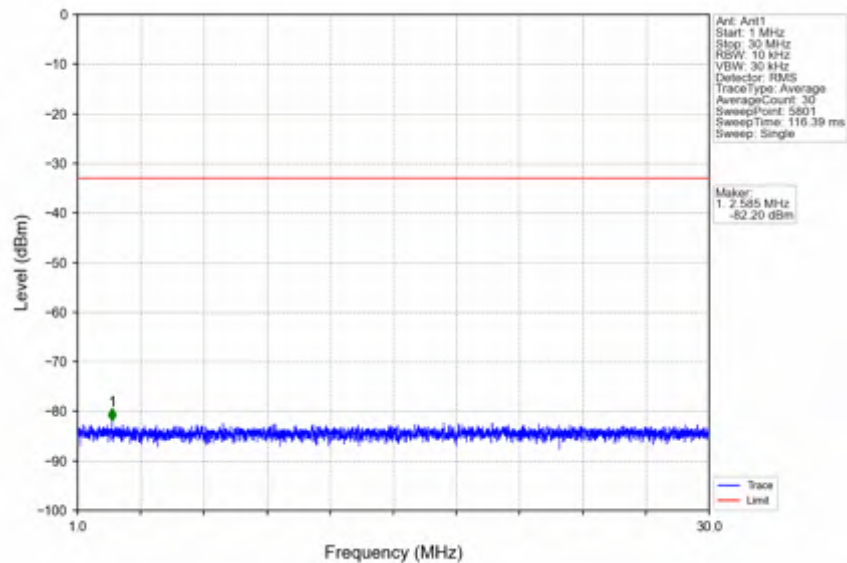
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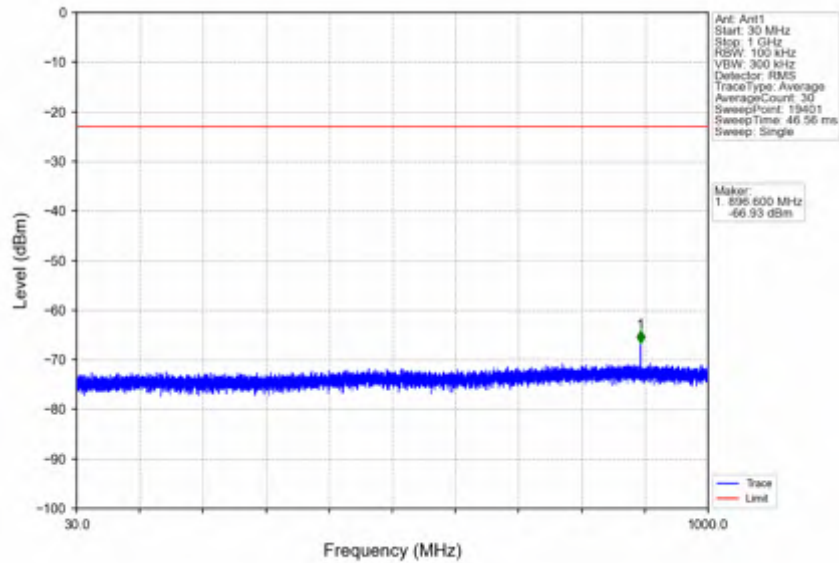
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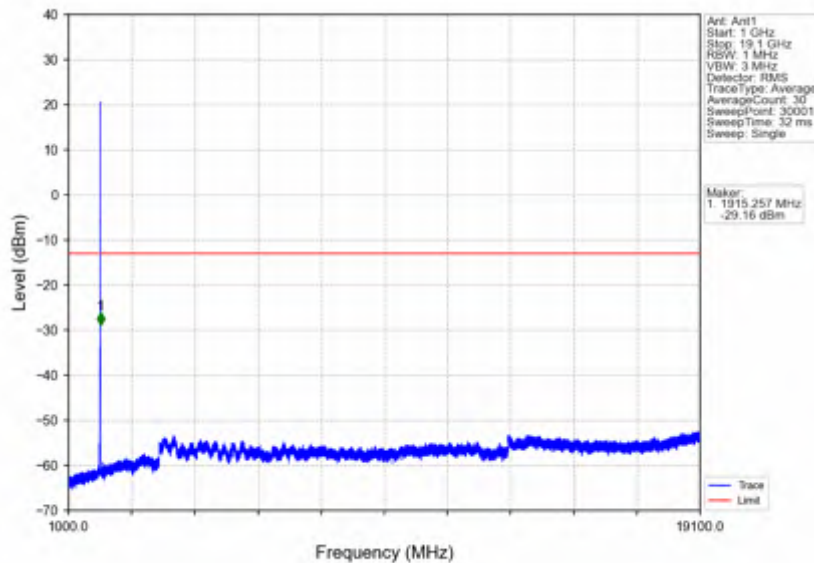
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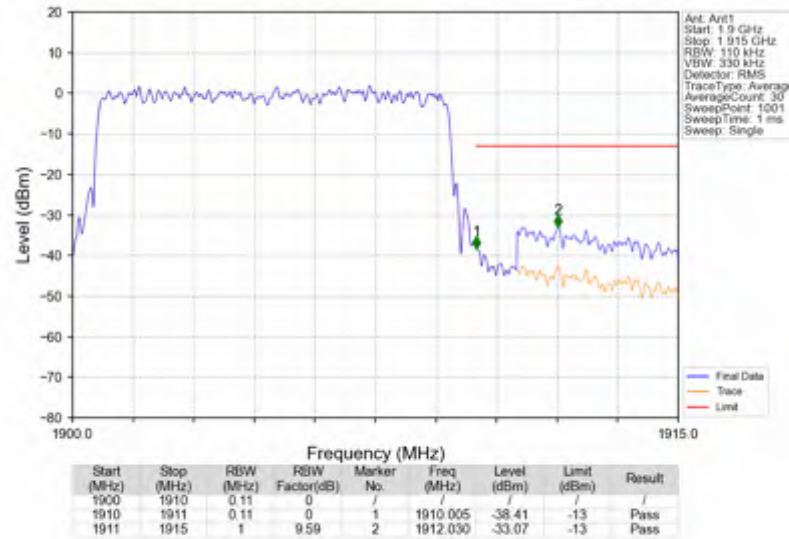


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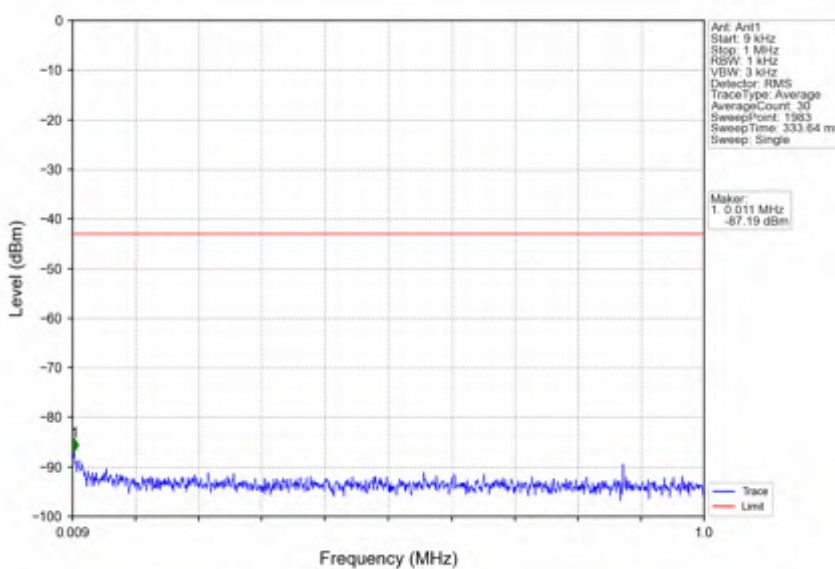
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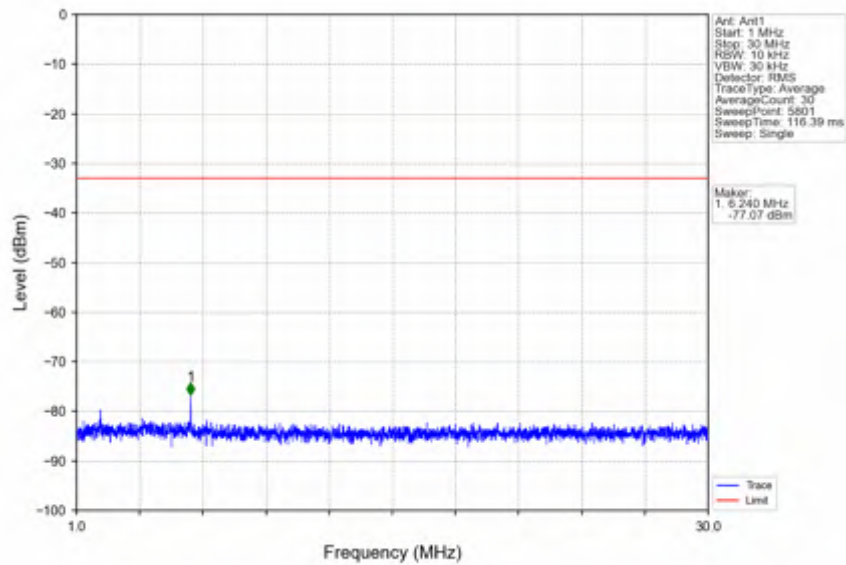
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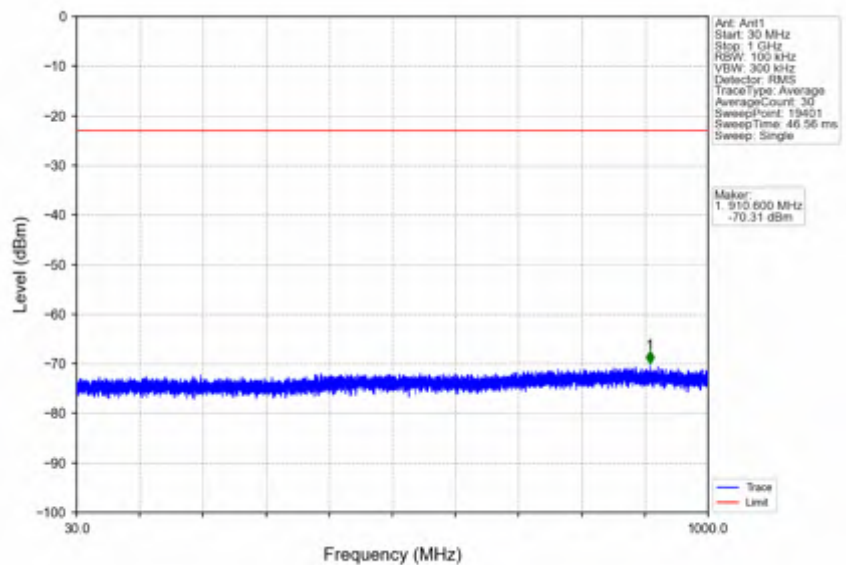
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1905MHz_Outer_Full



n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1905MHz_Outer_Full



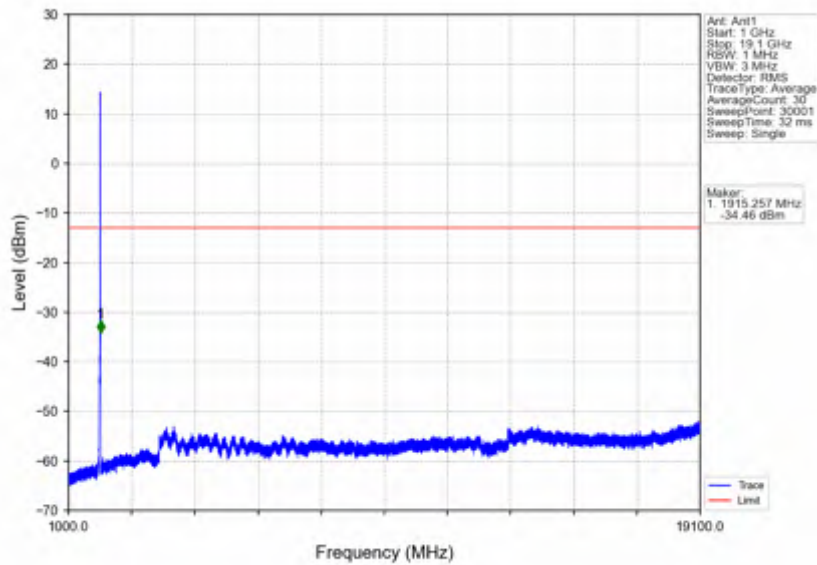
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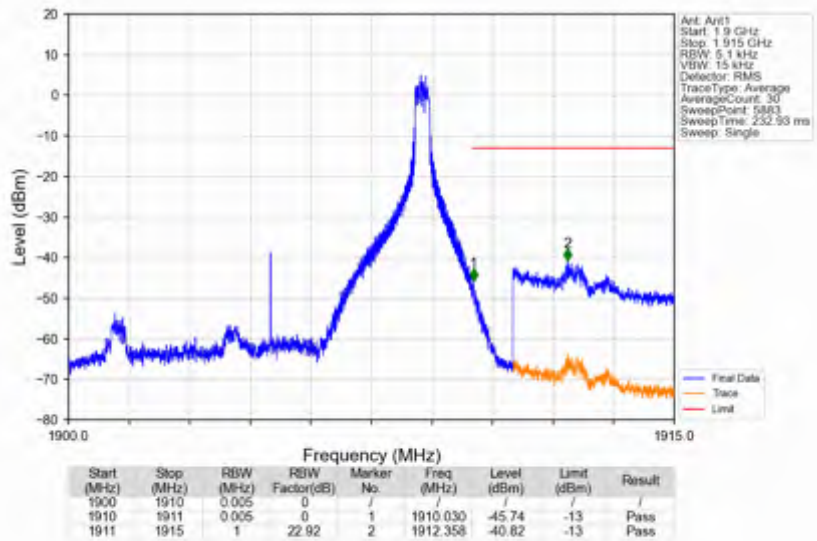
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Outer_Full



n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Inner_1RB_Right



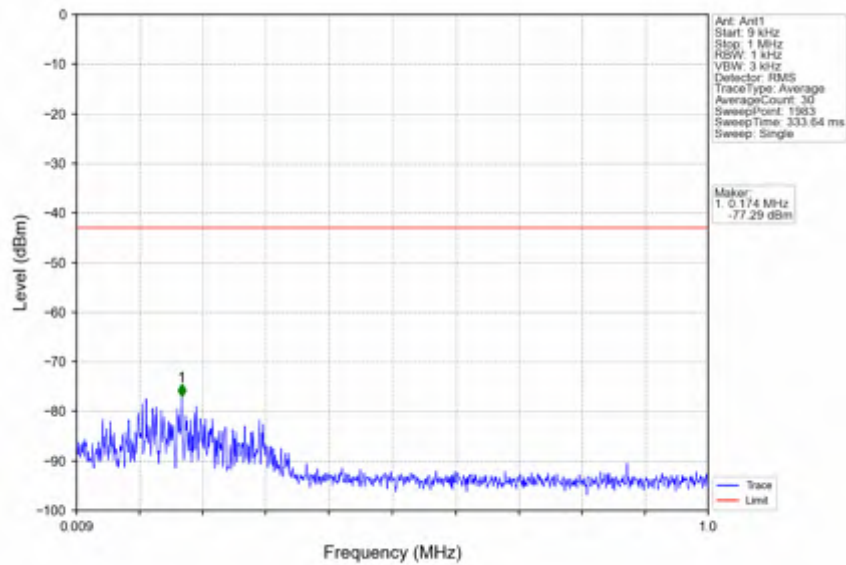
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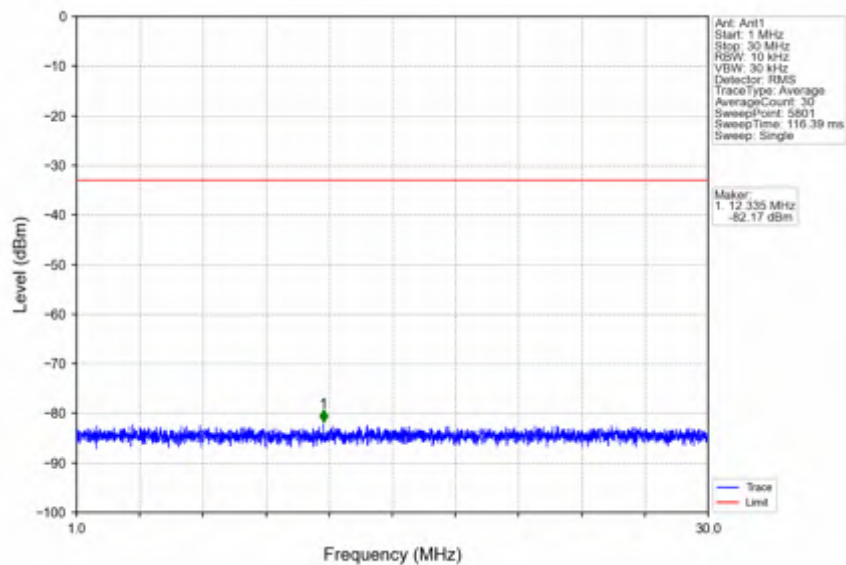
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Inner_1RB_Right



n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Inner_1RB_Right



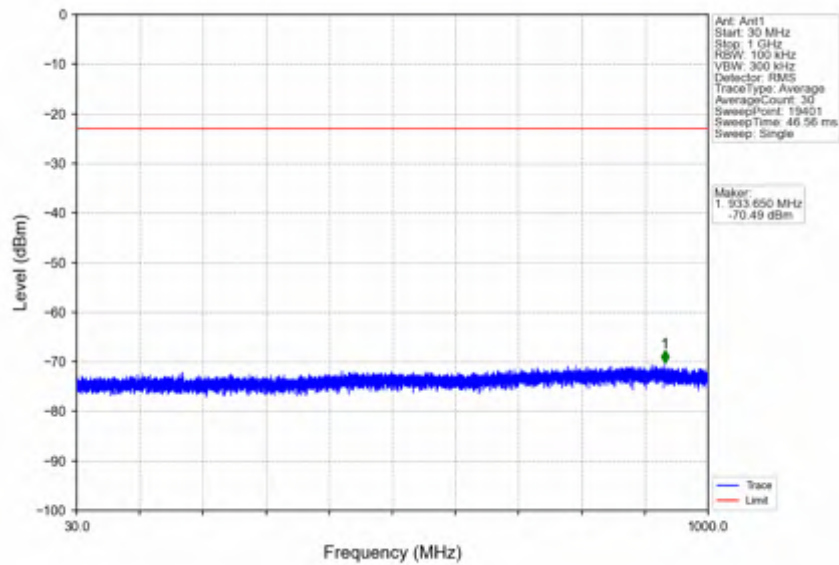
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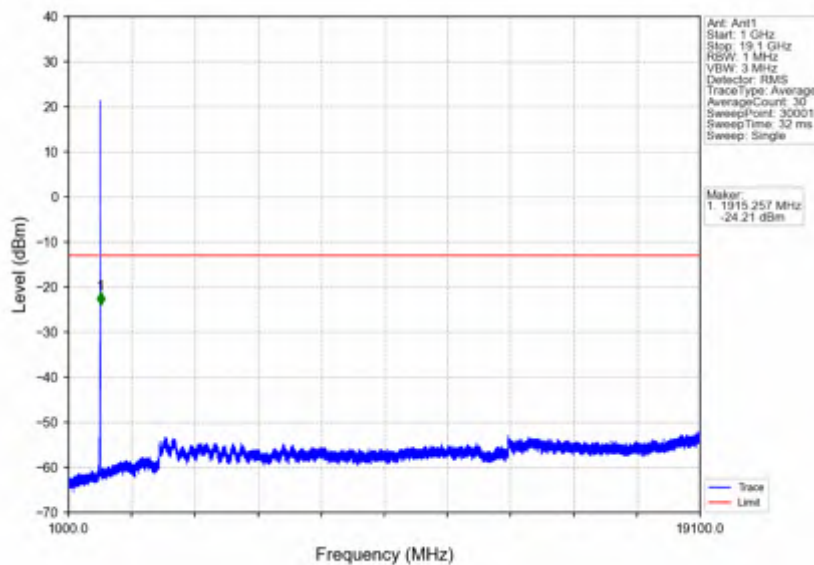
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Inner_1RB_Right



n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Inner_1RB_Right



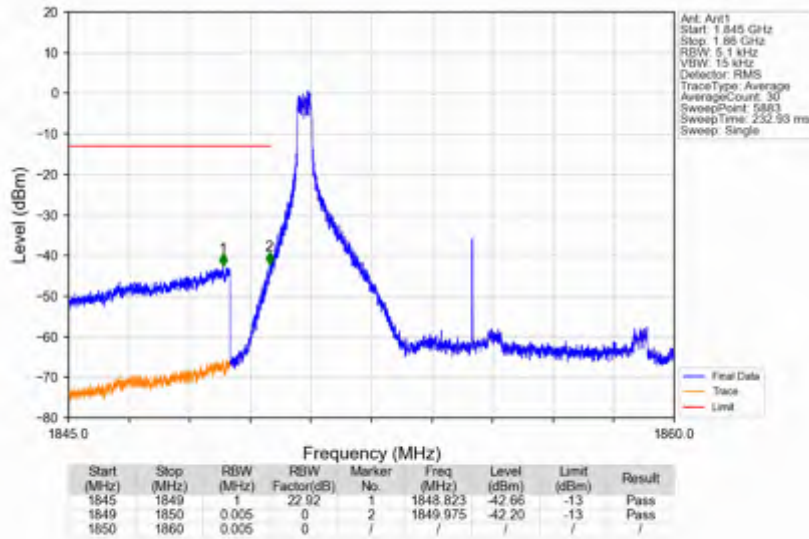
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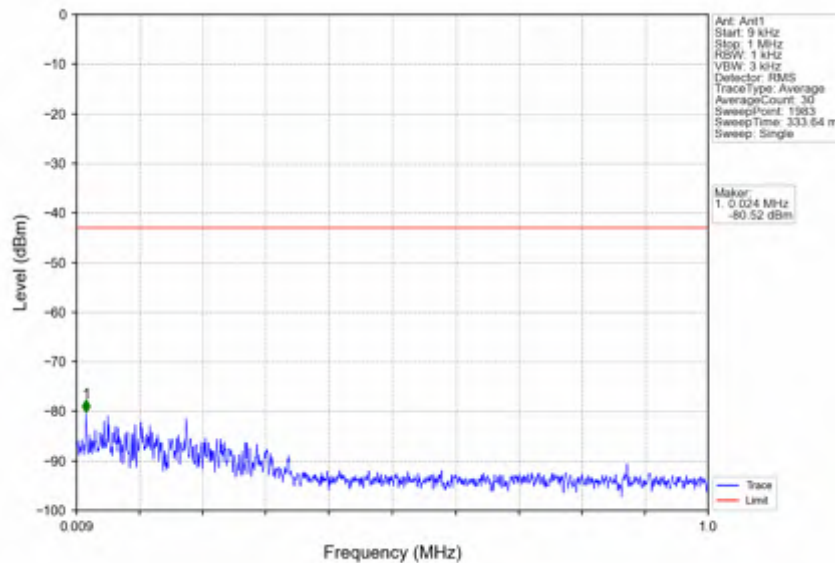
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Edge_1RB_Left

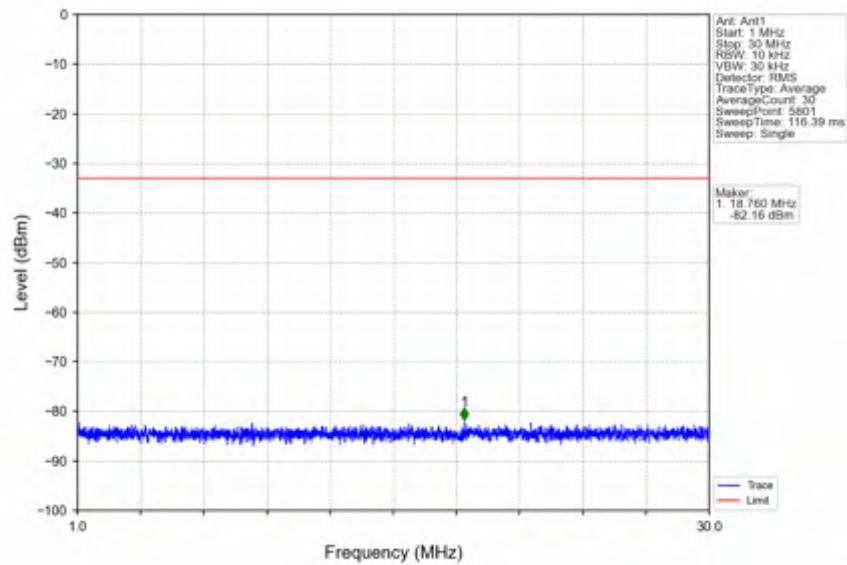


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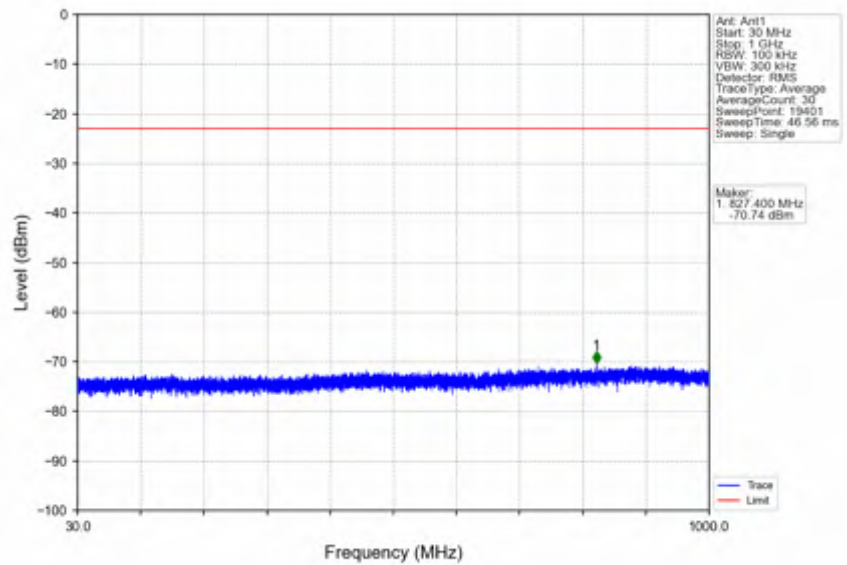
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Edge_1RB_Left



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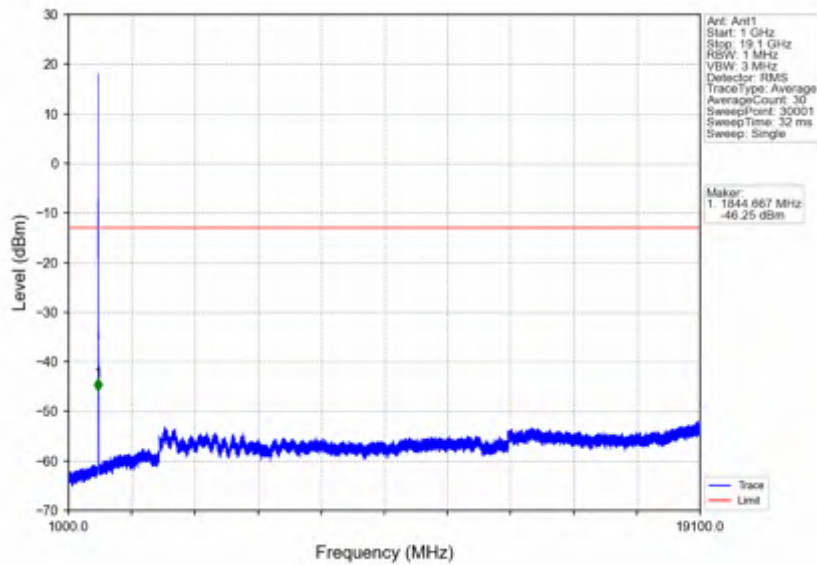
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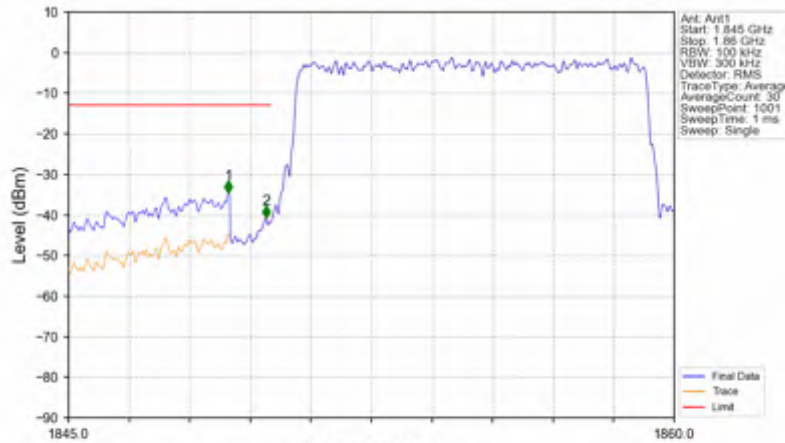
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	10	1	1848.960	-34.55	-13	Pass
1849	1850	0.1	0	2	1849.890	-40.78	-13	Pass
1850	1860	0.1	0	/	/	/	/	/



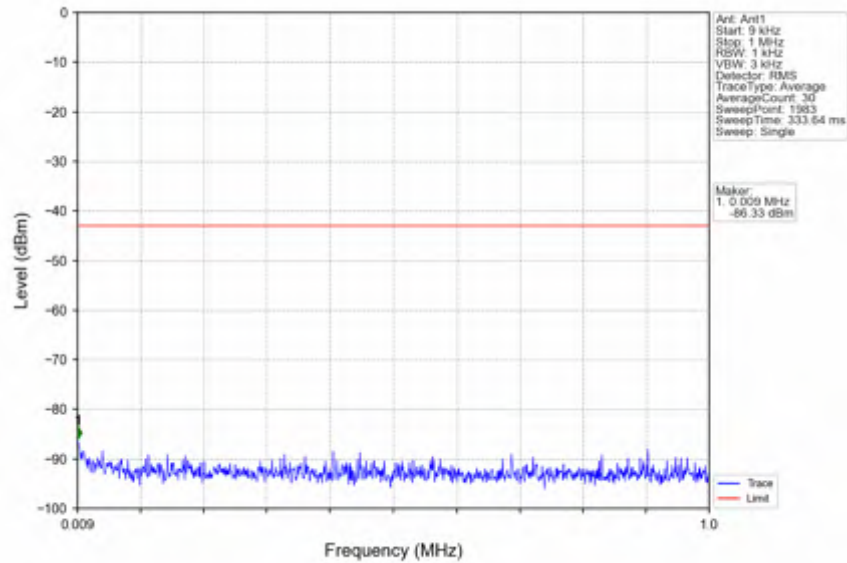
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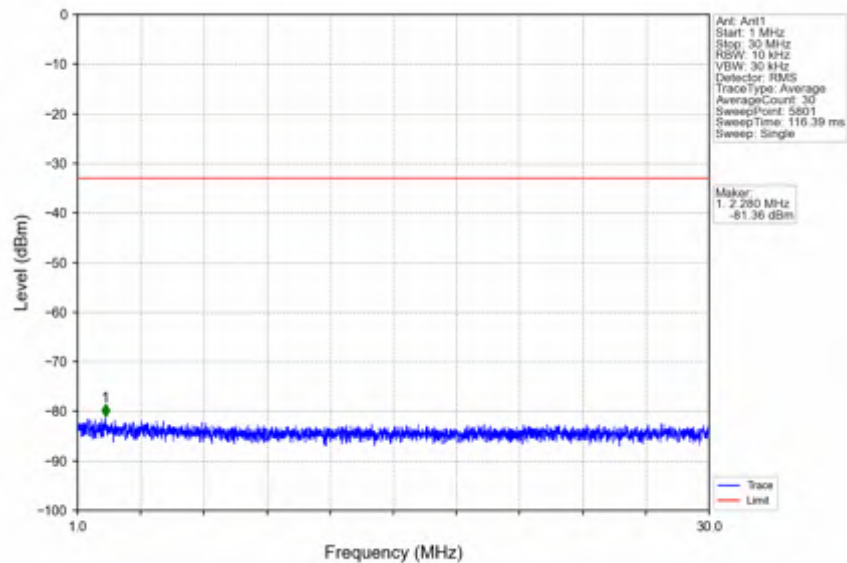
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Outer_Full



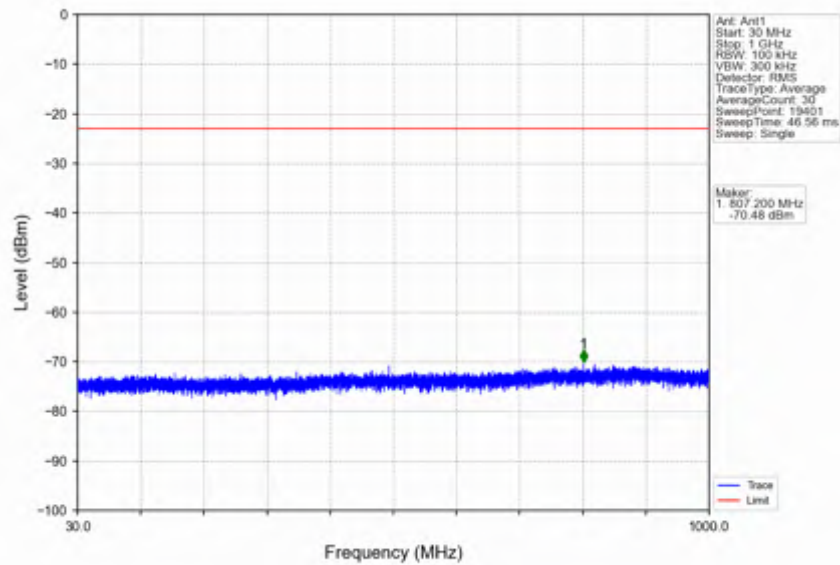
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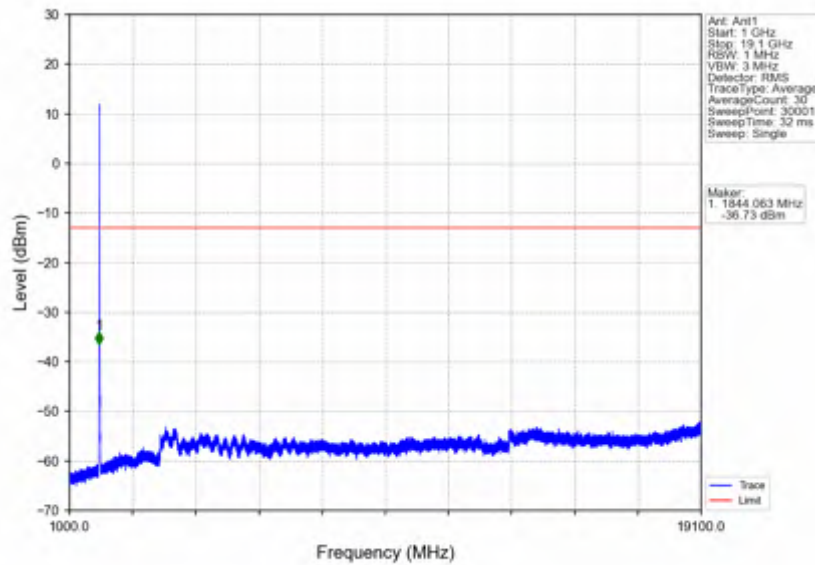
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Outer_Full



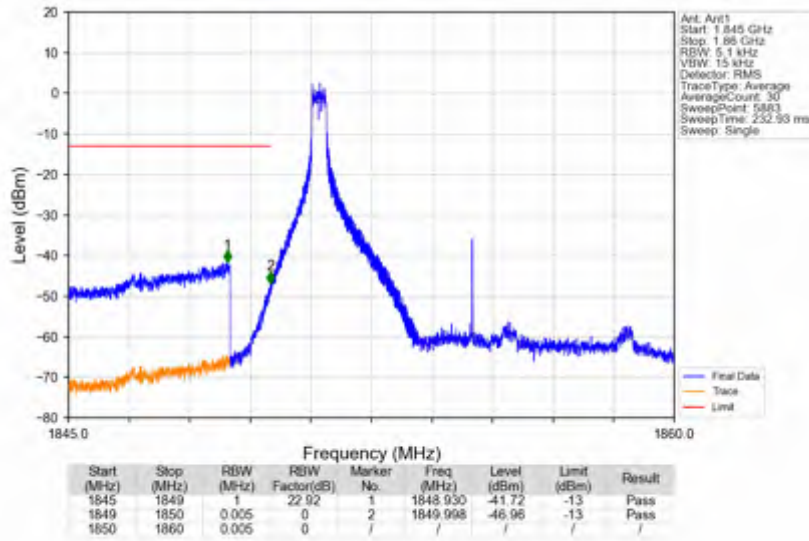
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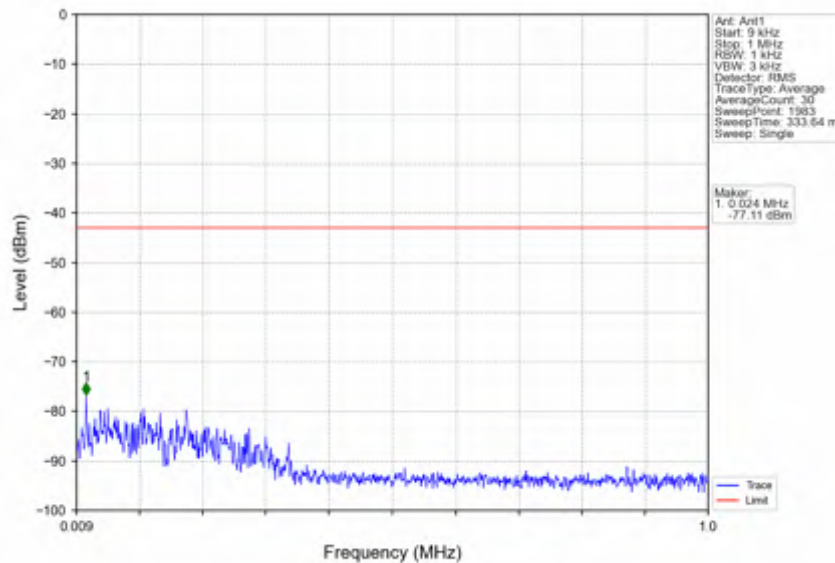
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Inner_1RB_Left

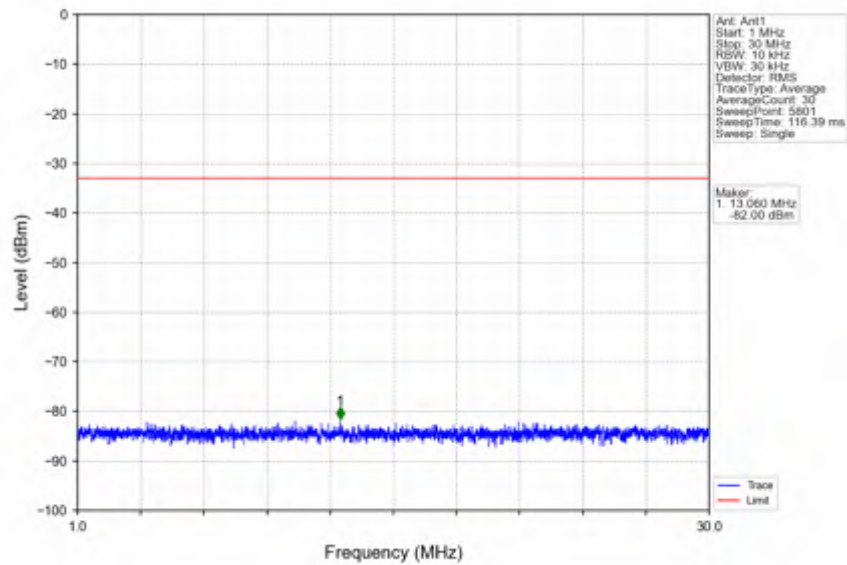


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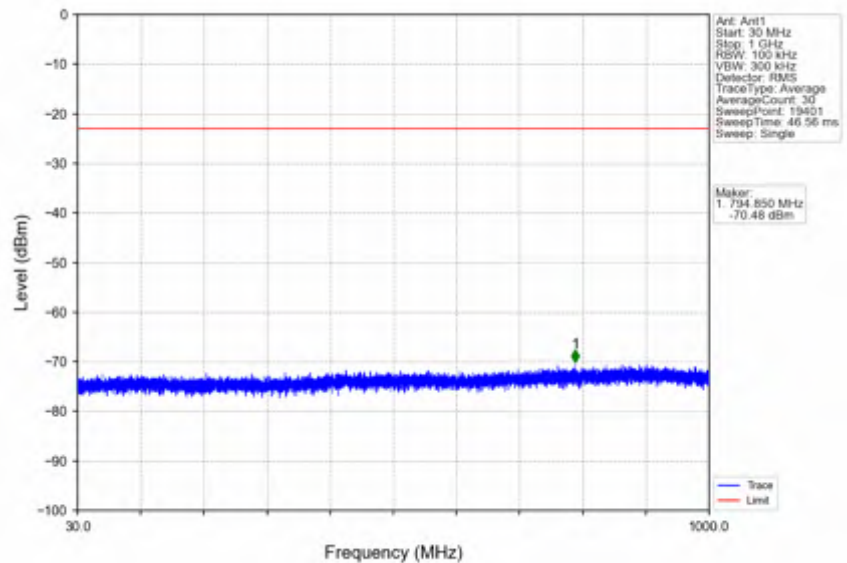
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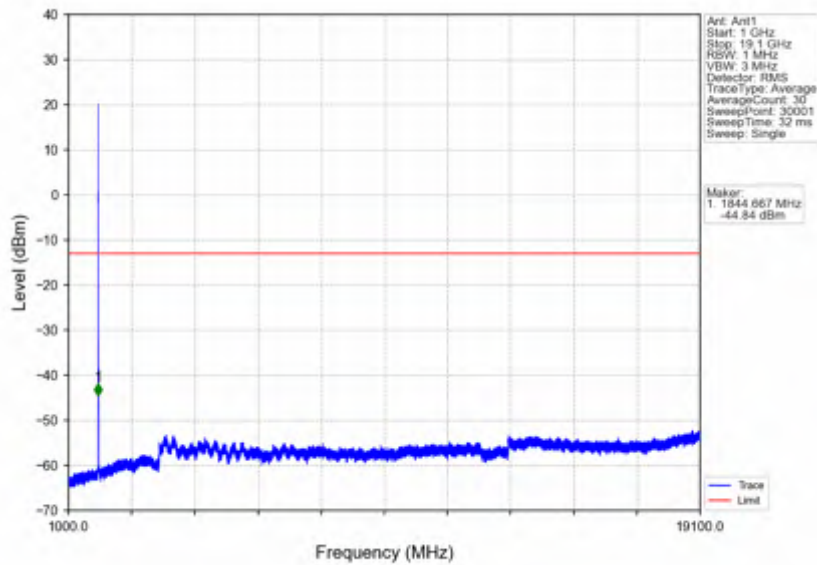
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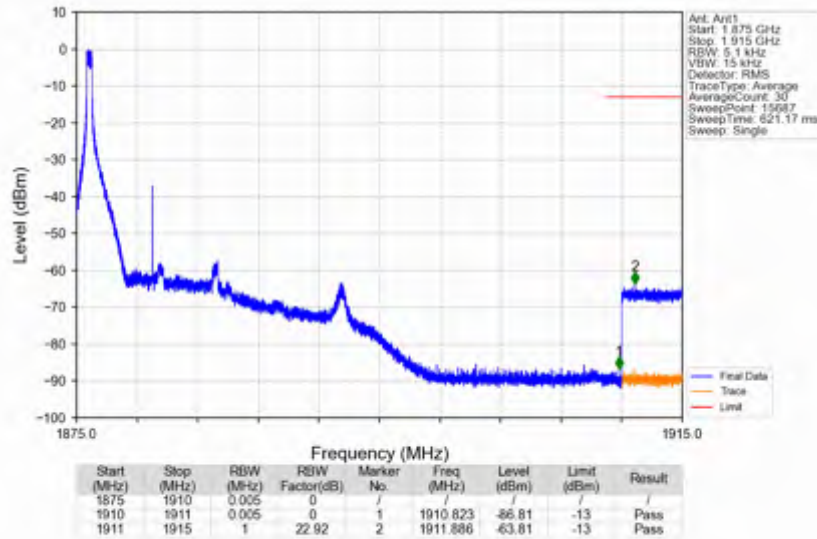
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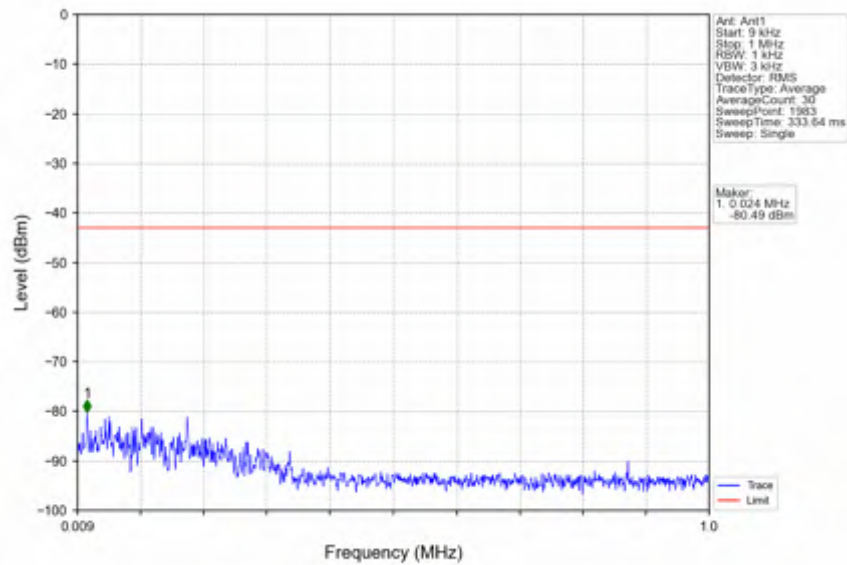


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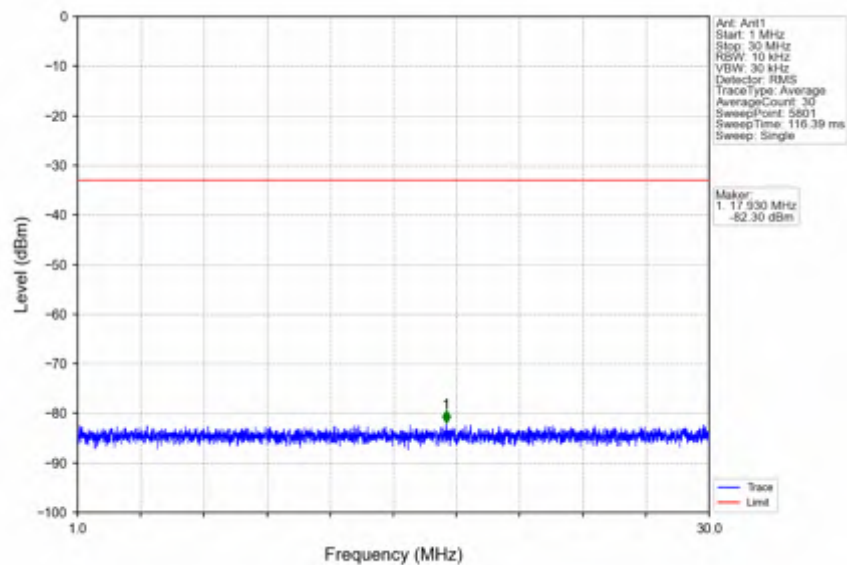
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1880MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1880MHz_Edge_1RB_Left



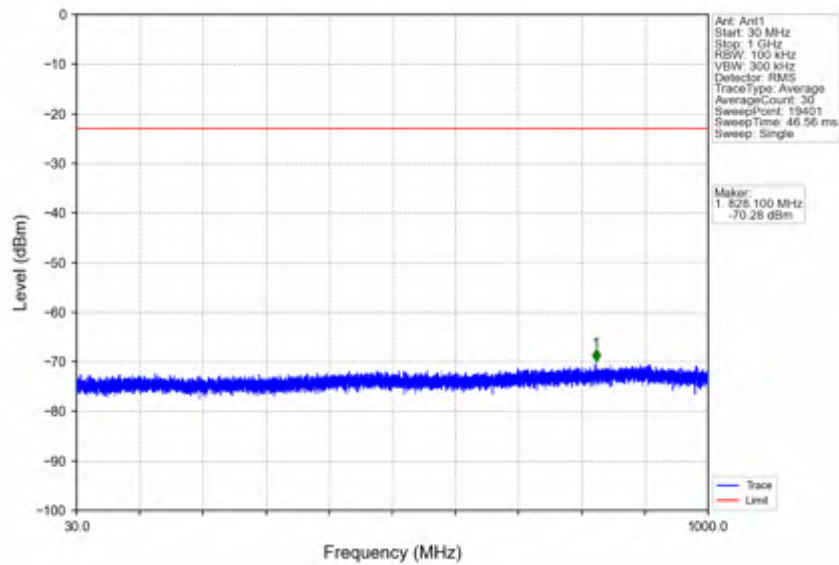
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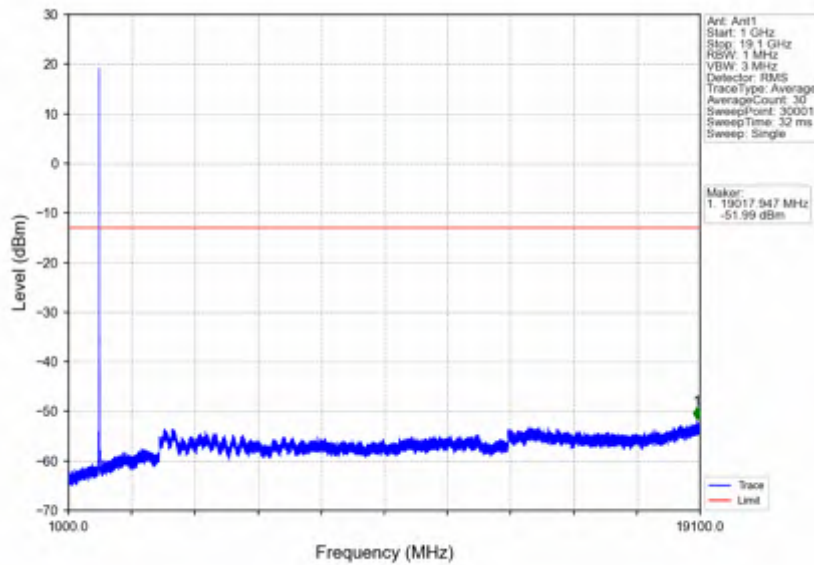
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1880MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1880MHz_Edge_1RB_Left

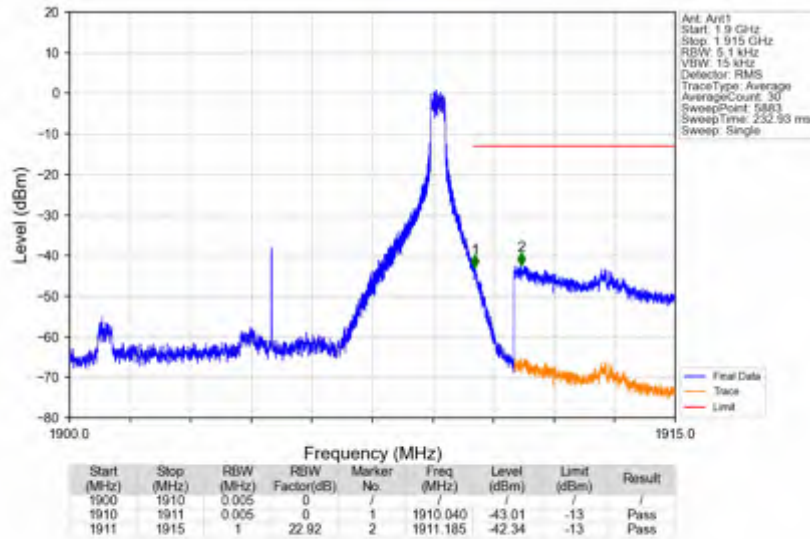


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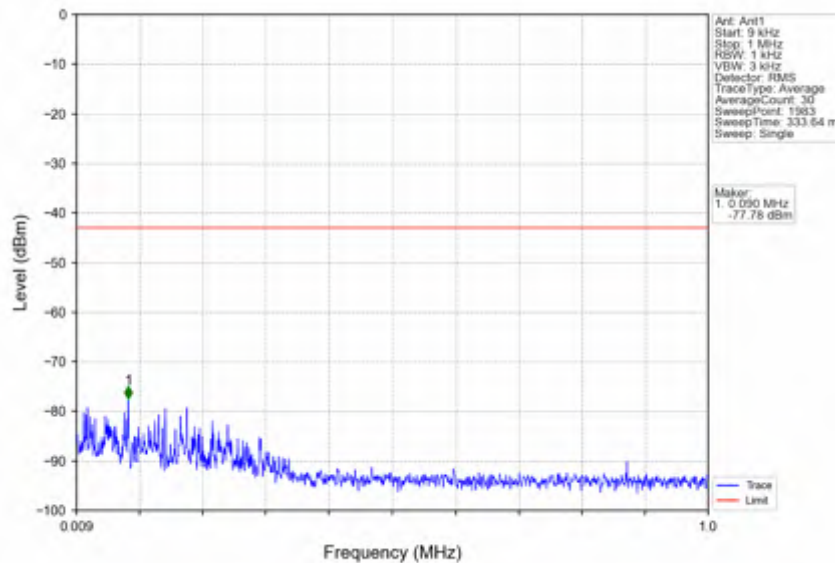
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Edge_1RB_Right



n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Edge_1RB_Right

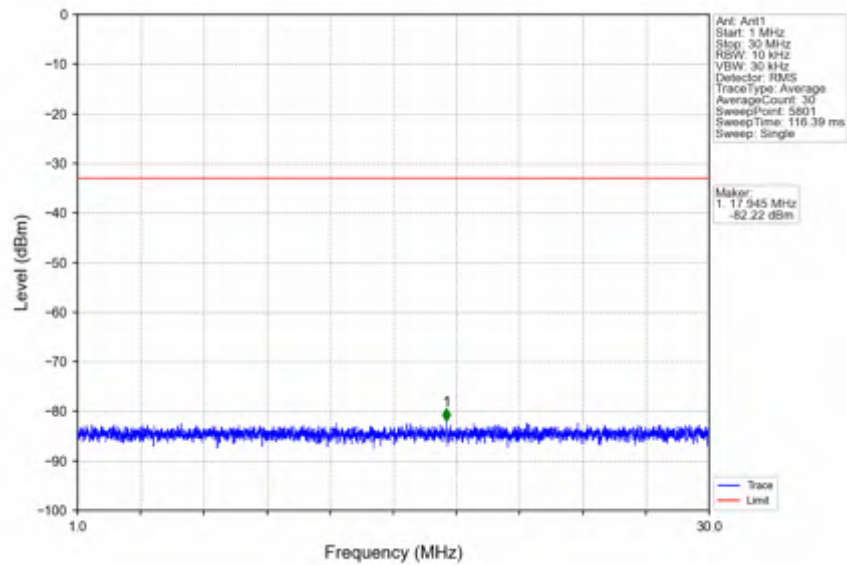


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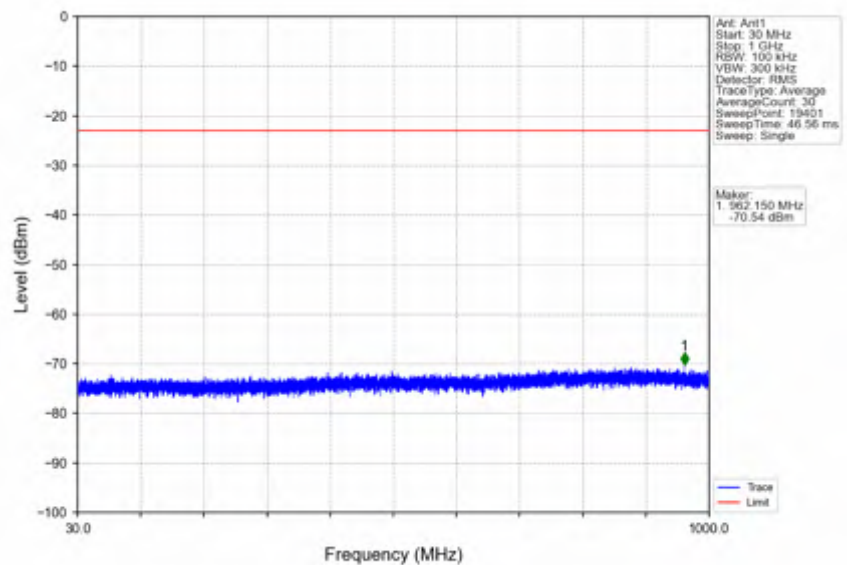
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Edge_1RB_Right



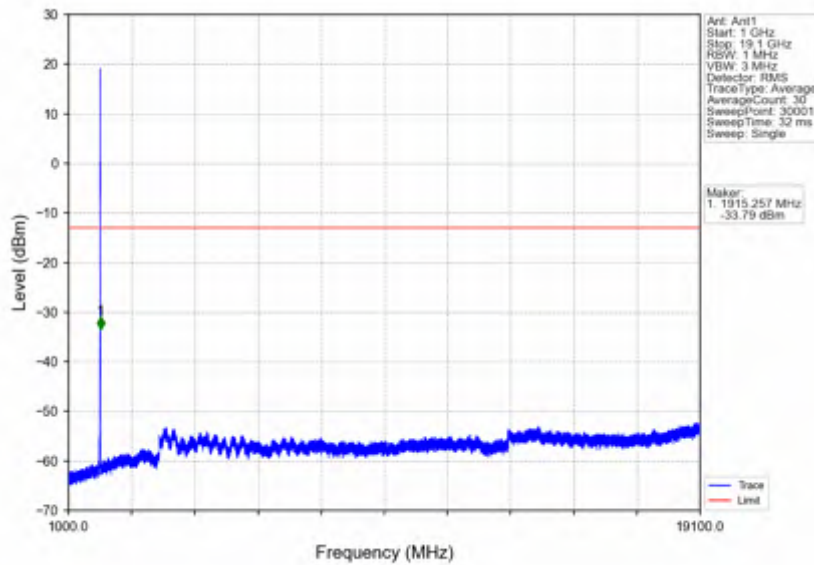
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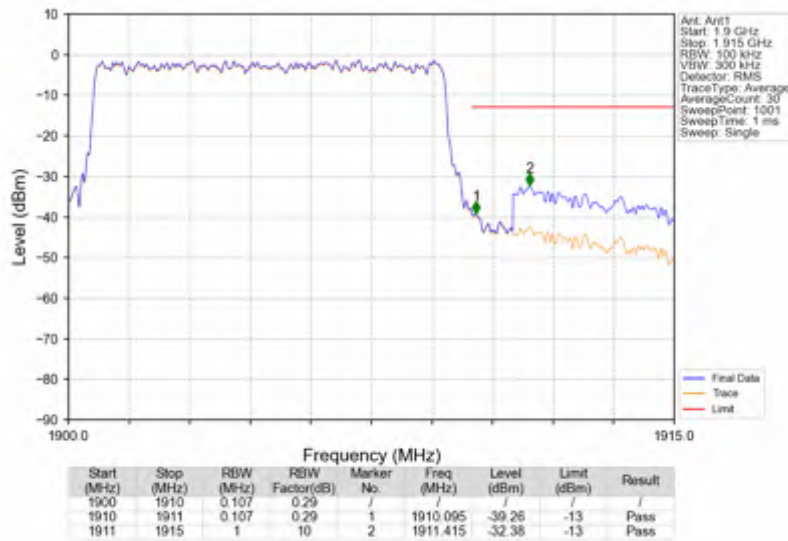
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Edge_1RB_Right



n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Outer_Full



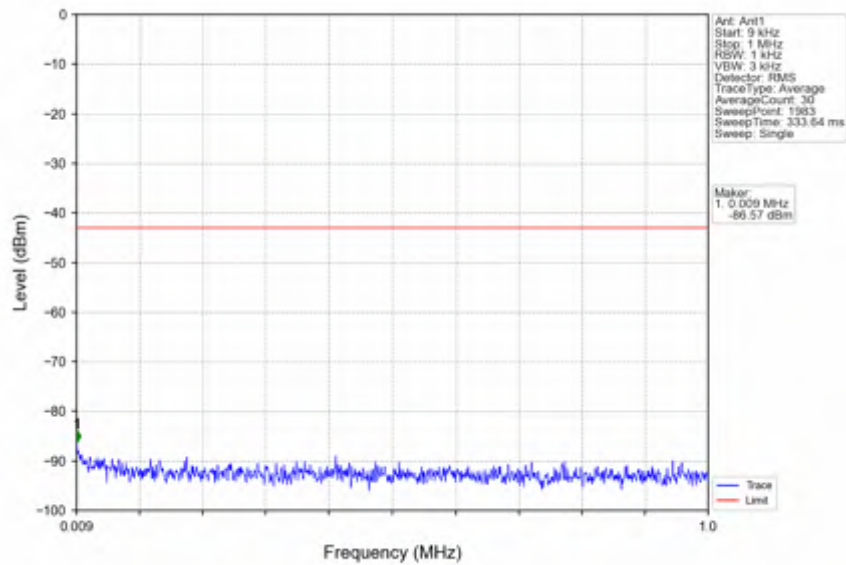
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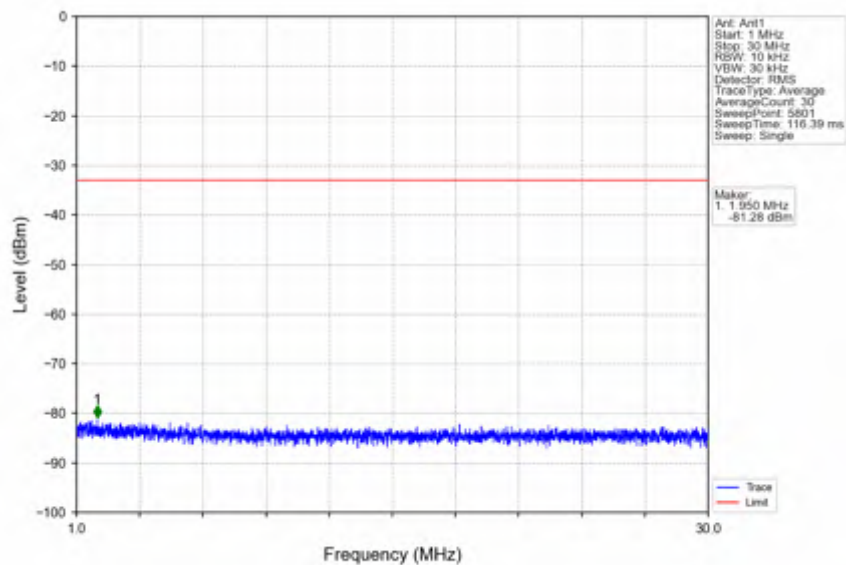
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Outer_Full



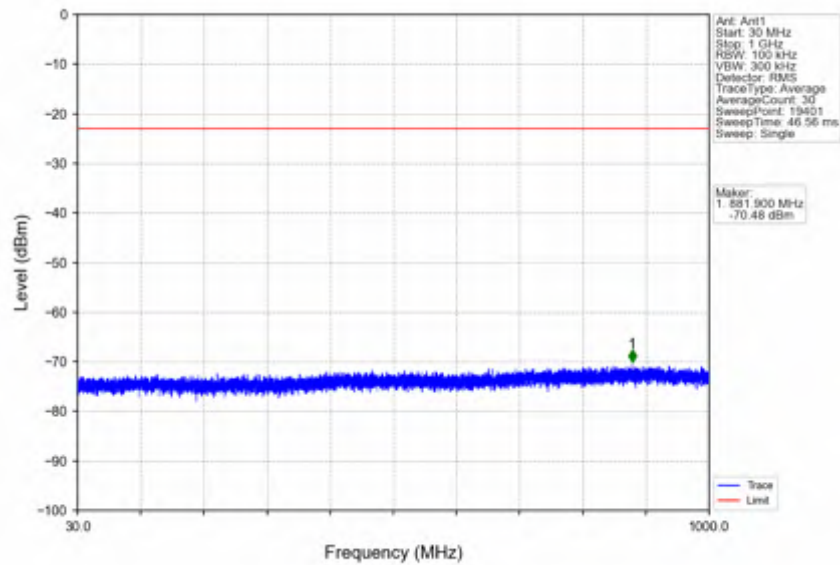
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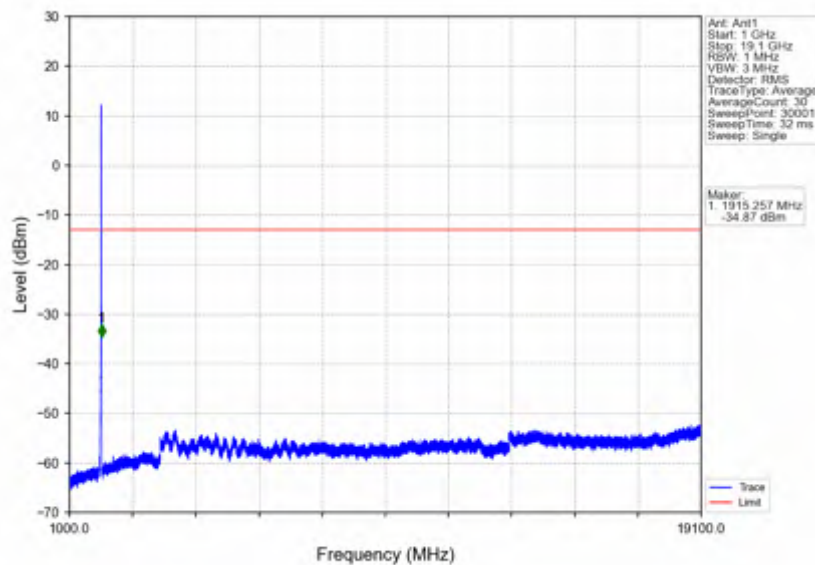
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Outer_Full



n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Outer_Full

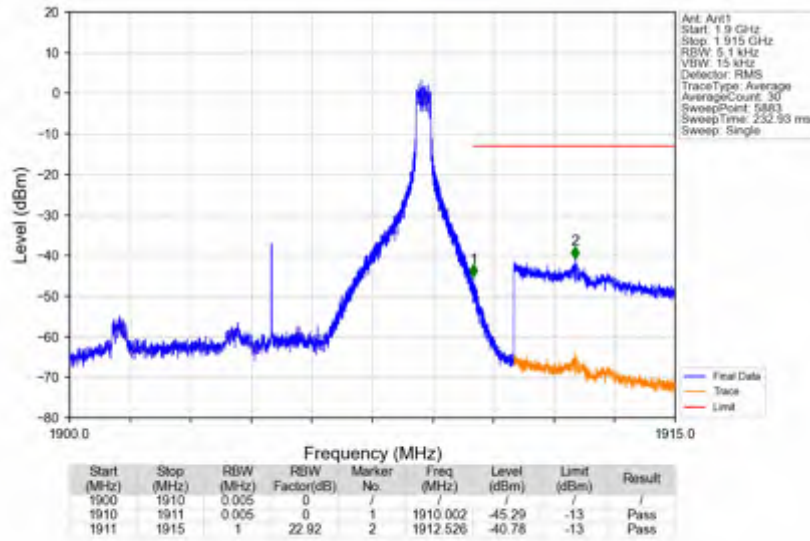


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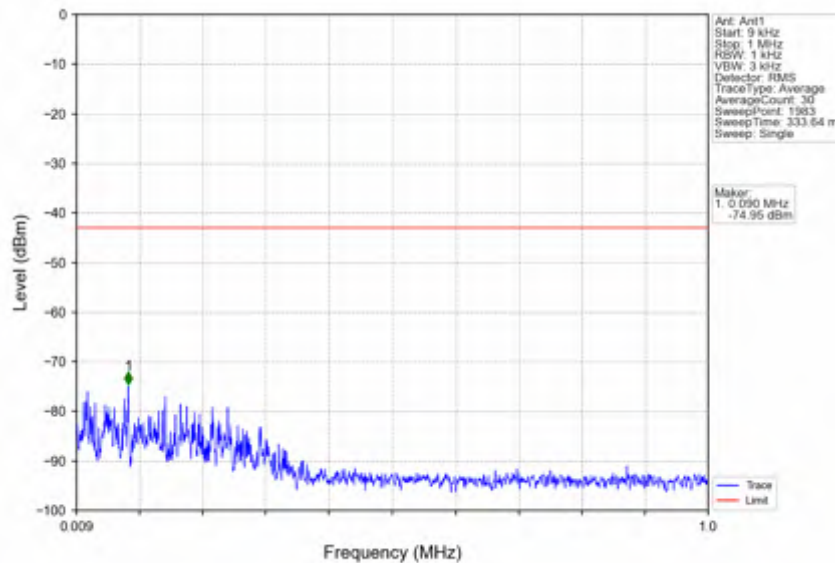
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_1905MHz_Inner_1RB_Right



n2_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_1905MHz_Inner_1RB_Right

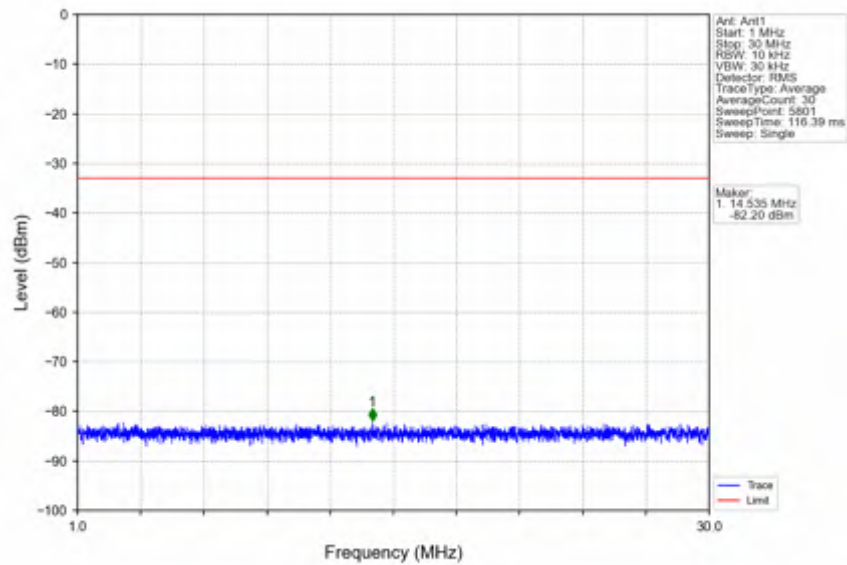


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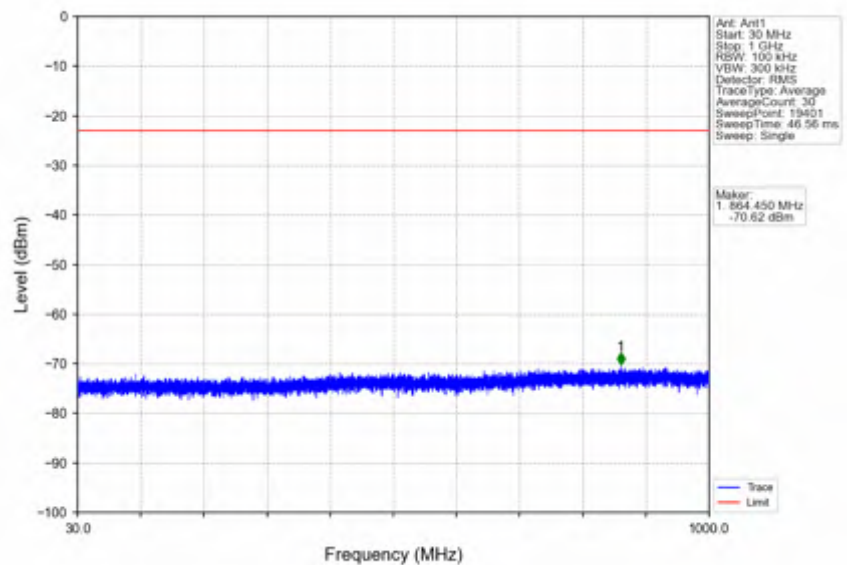
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Inner_1RB_Right



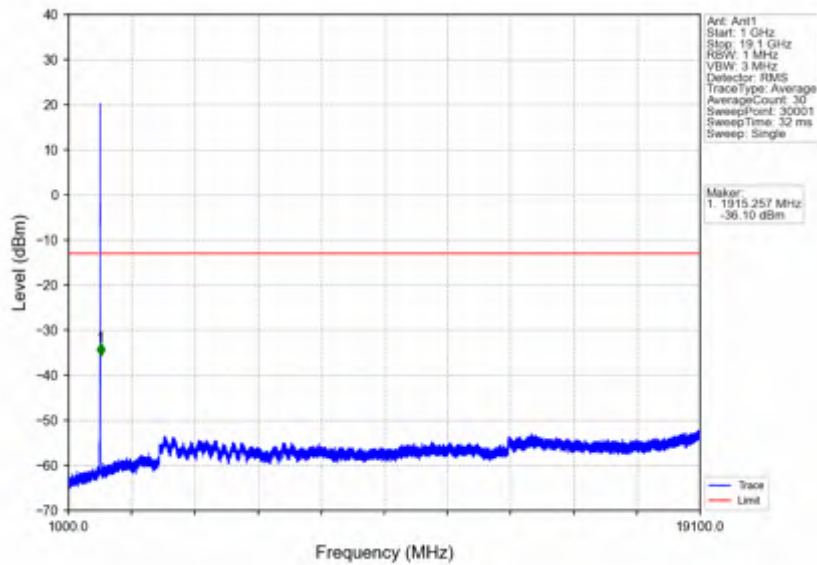
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Inner_1RB_Right



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1.6 30k_SISO_15MHz_NTNV

1.6.1 Test Result

5G NR n2 SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant2	Sum	
DFT-s-OFDM PI/2 BPSK	1857.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	1902.5	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	1857.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	1902.5	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	1857.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	1902.5	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Right	Refer To Test Graph			Pass



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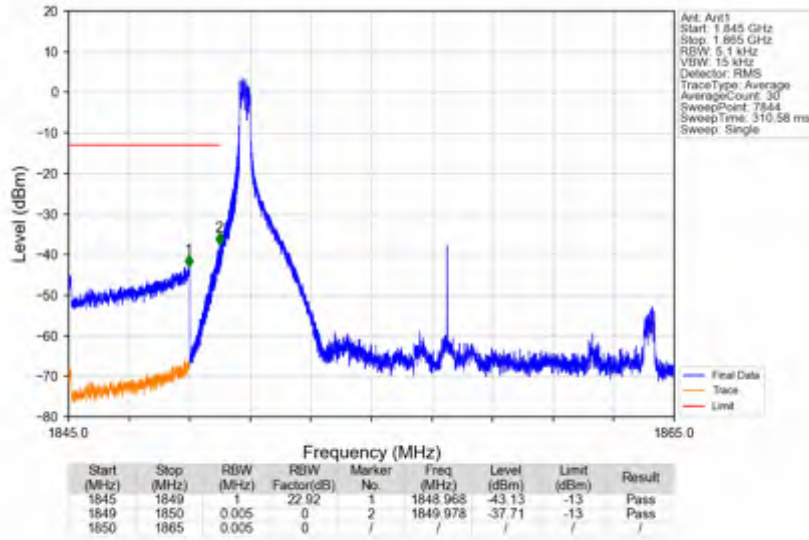
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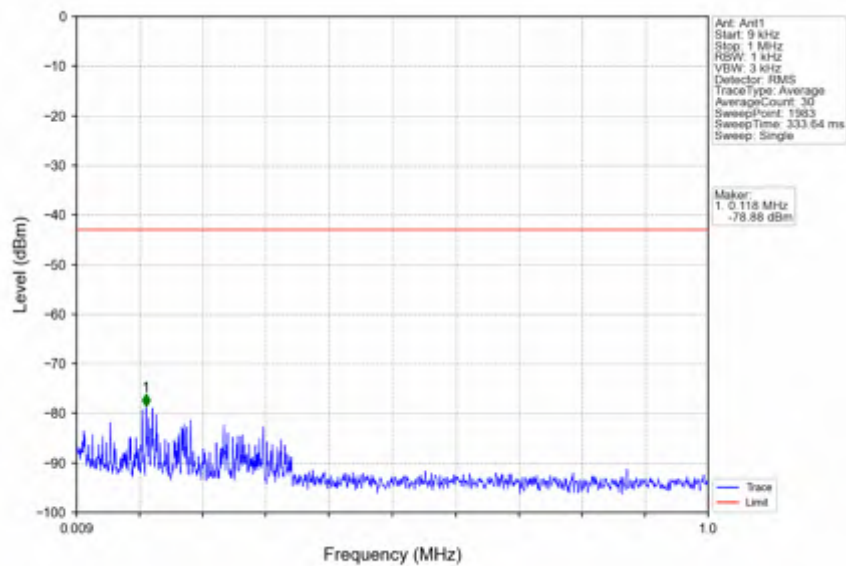
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1.6.2 Test Graph

n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_1857.5MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_1857.5MHz_Edge_1RB_Left



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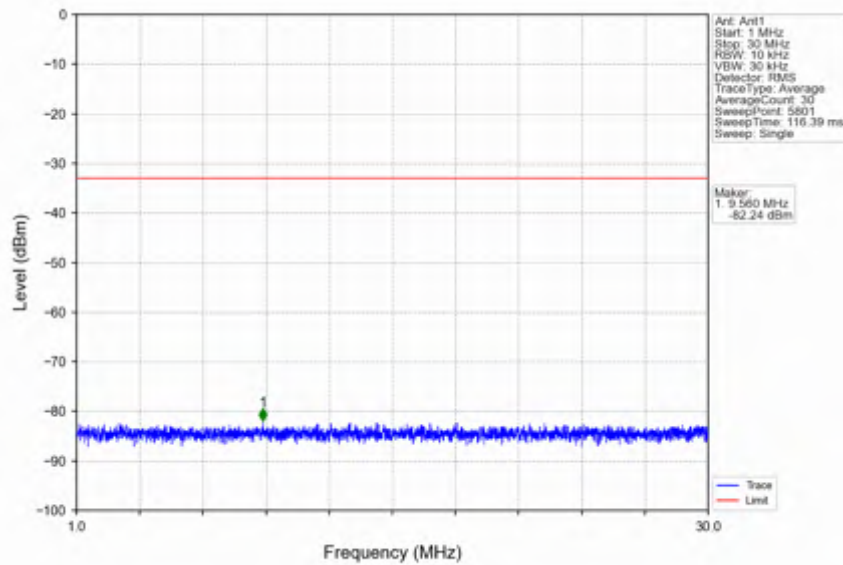
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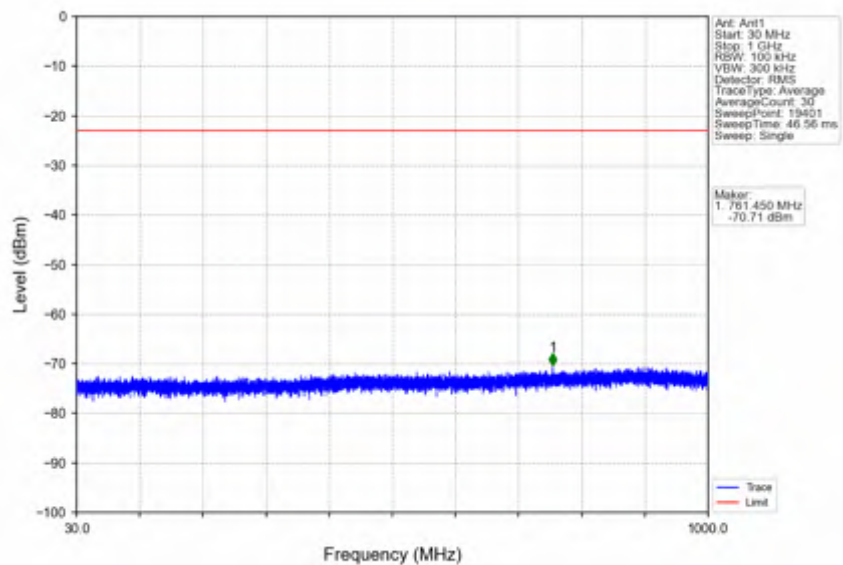
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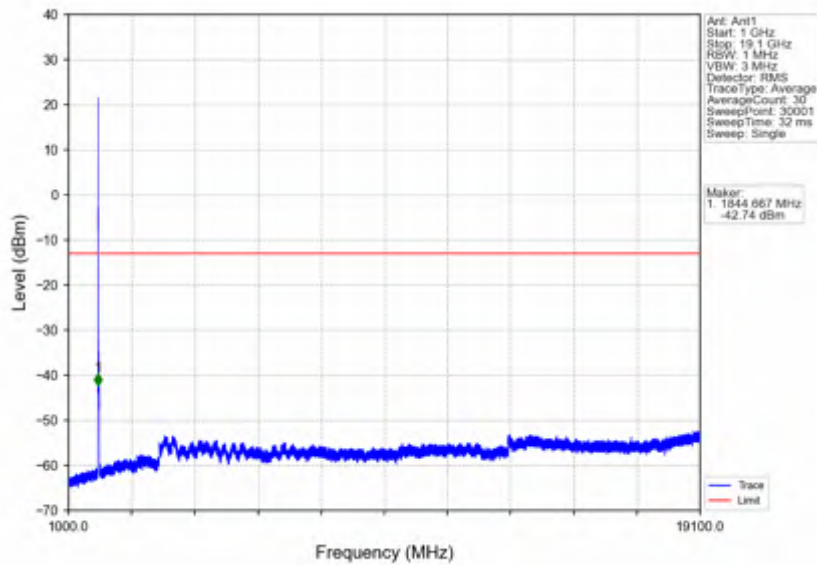
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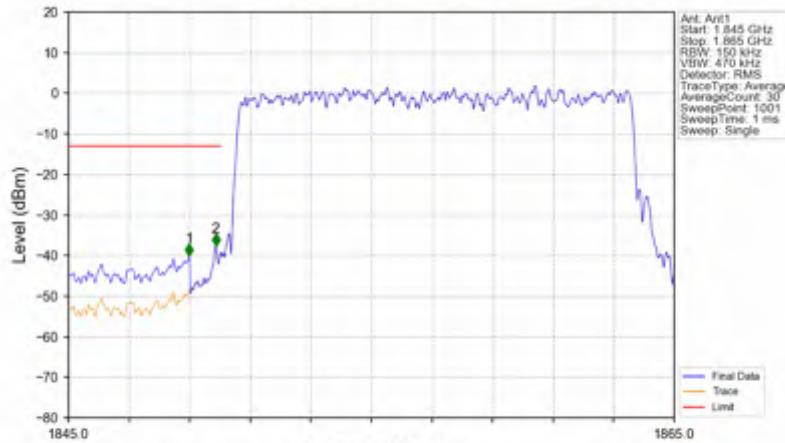
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Edge_1RB_Left



n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	8.24	1	1848.980	-40.20	-13	Pass
1849	1850	0.15	0	2	1849.860	-37.75	-13	Pass
1850	1865	0.15	0	/	/	/	/	/

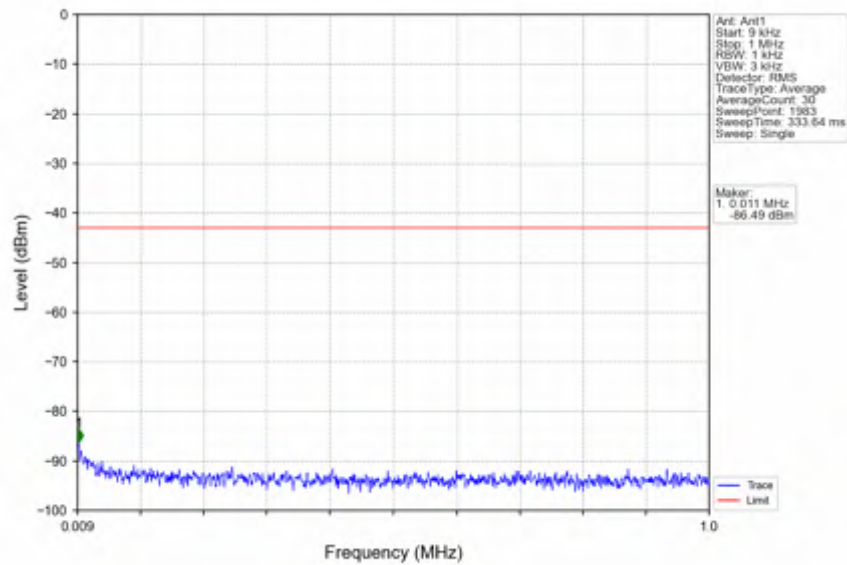


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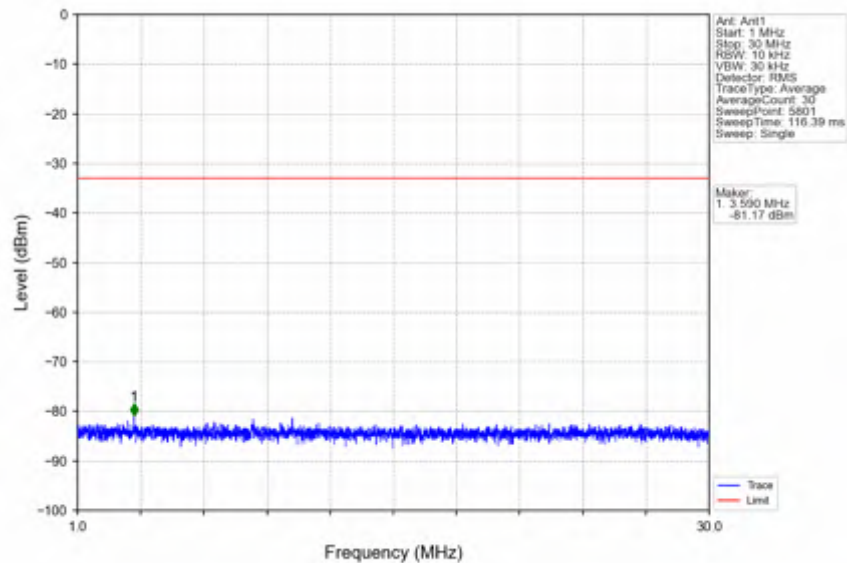
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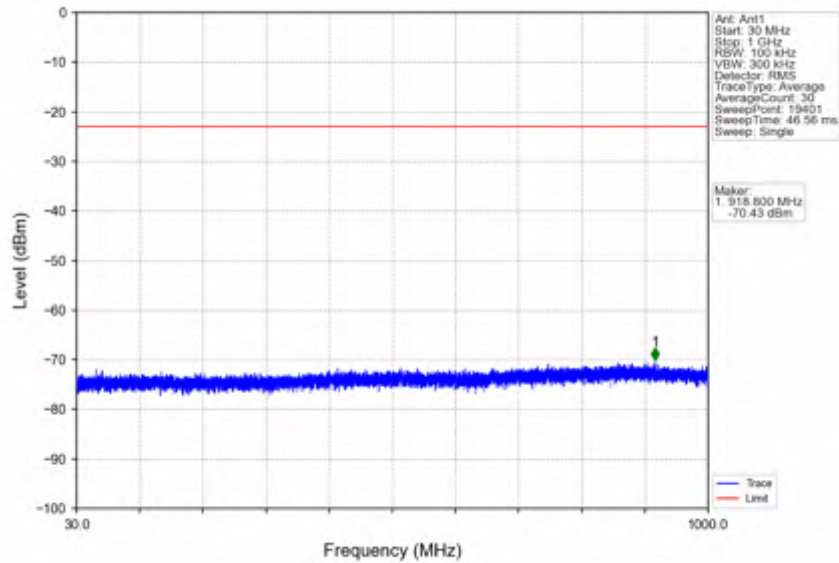
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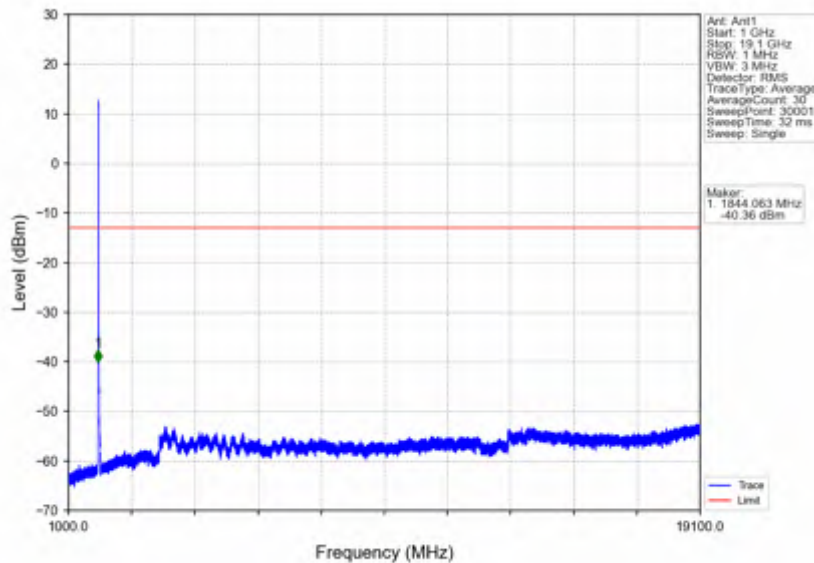
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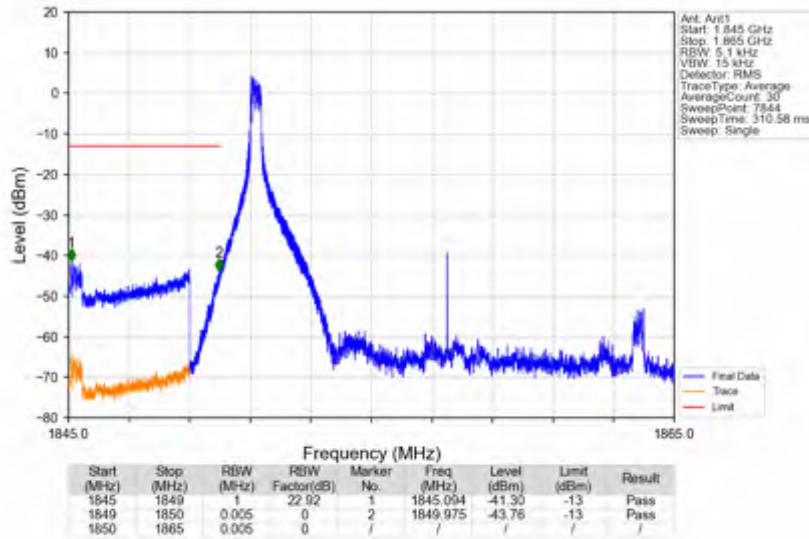
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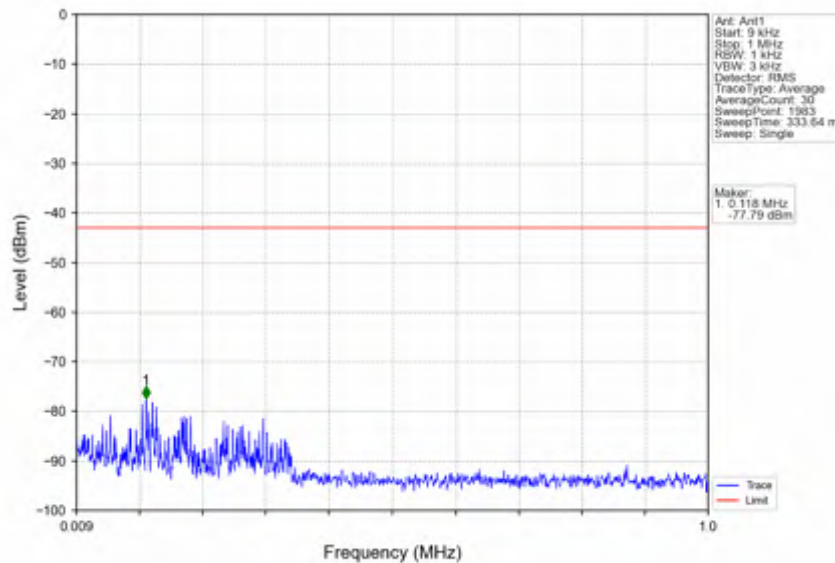
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Inner_1RB_Left

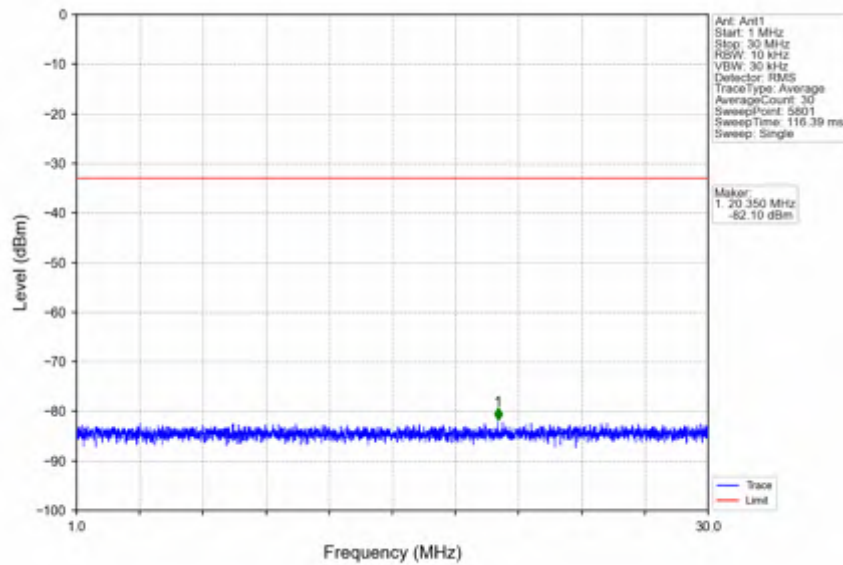


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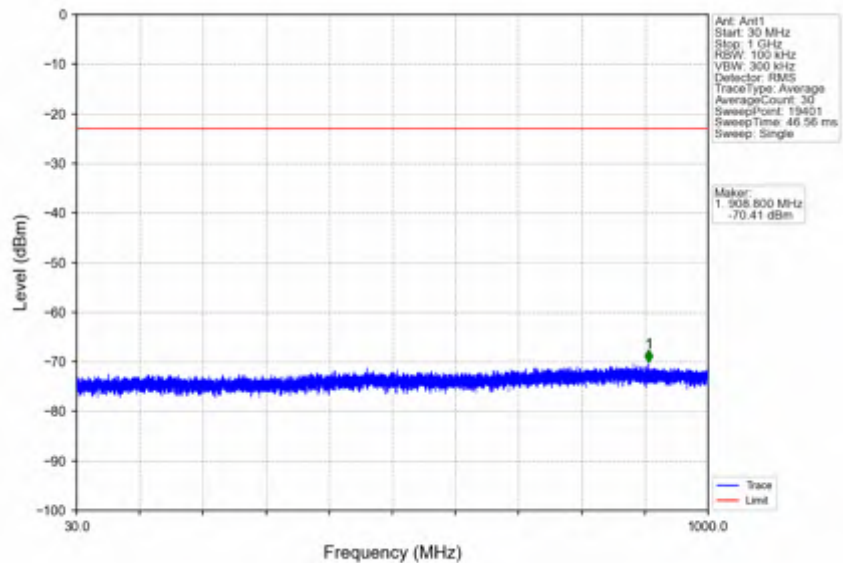
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Inner_1RB_Left

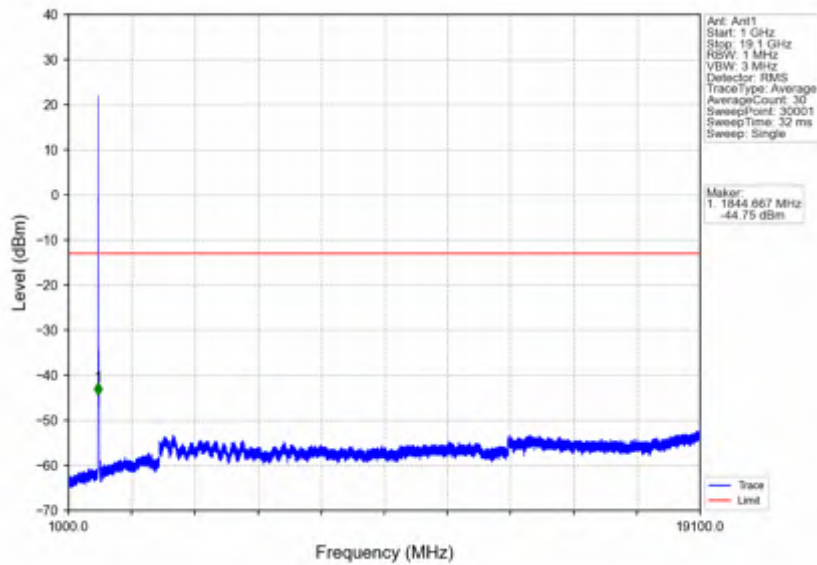


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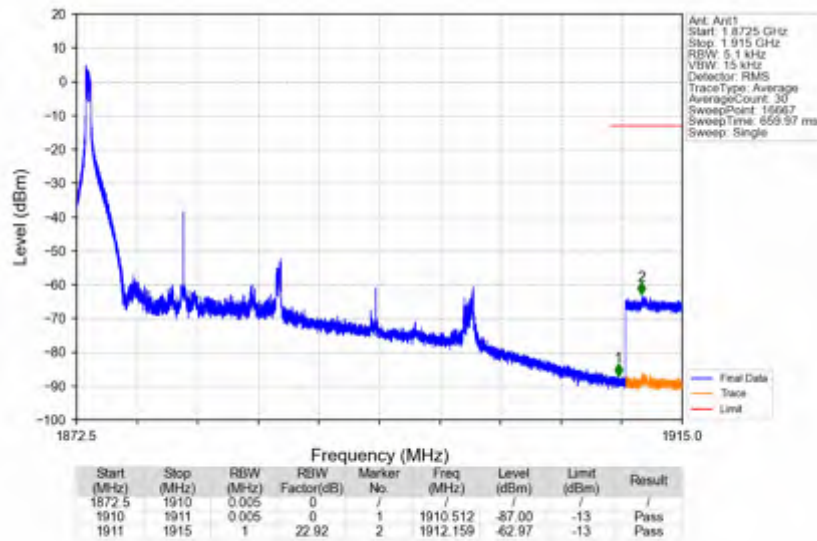
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Inner_1RB_Left



n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Edge_1RB_Left

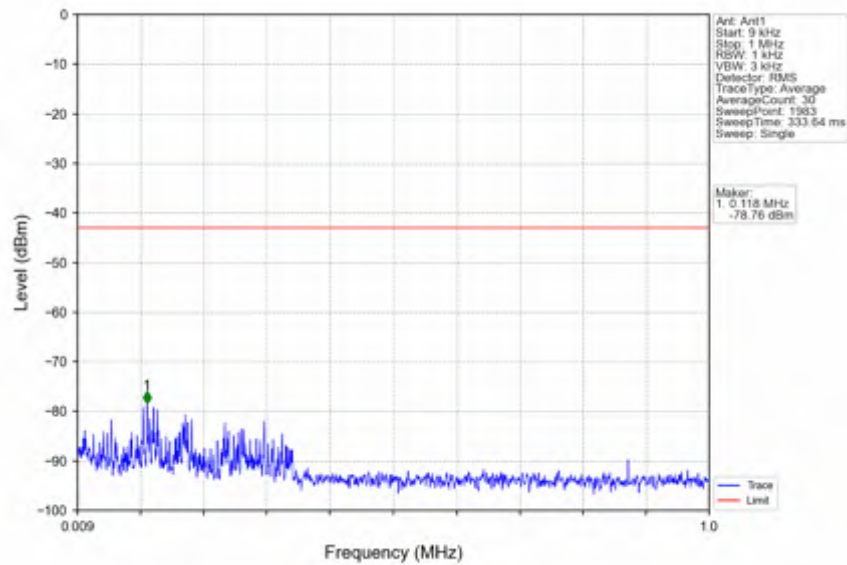


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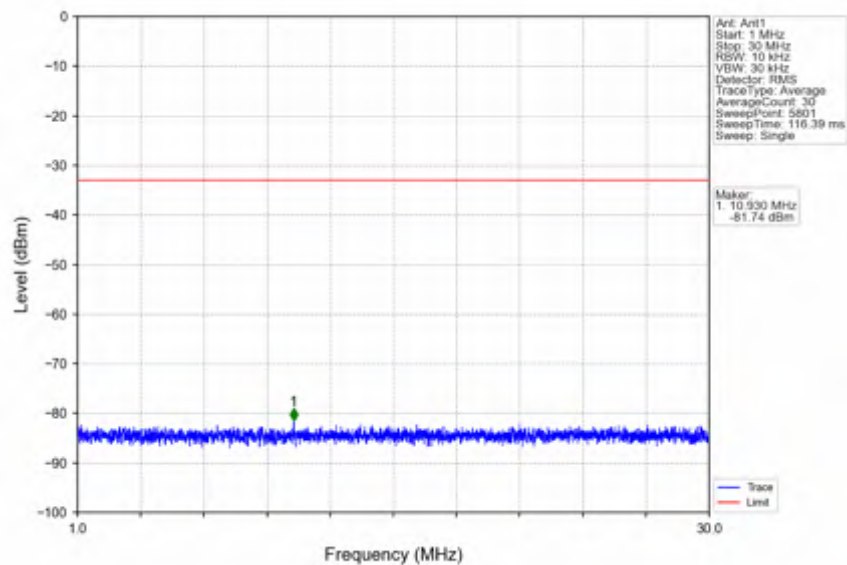
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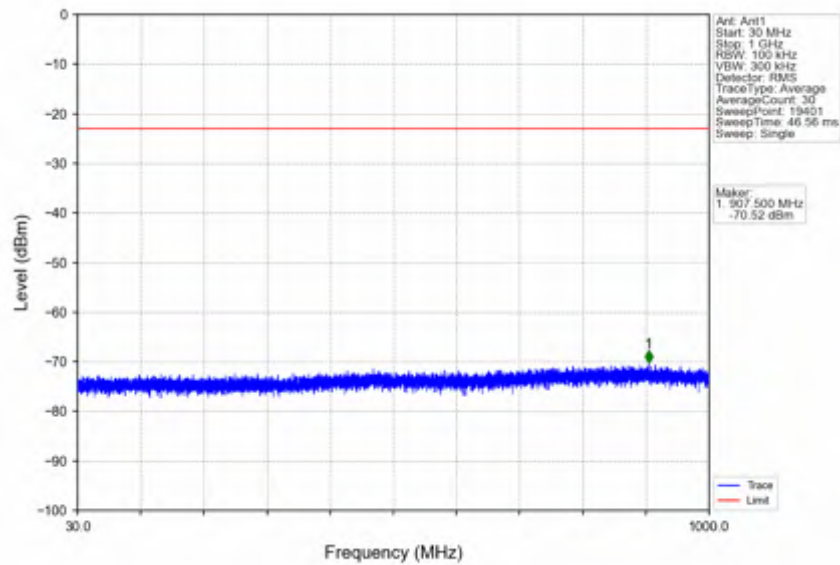
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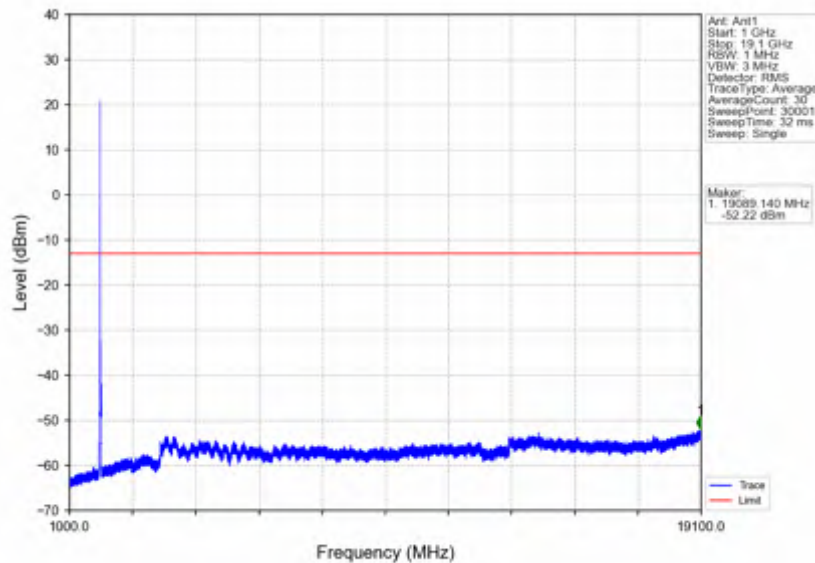
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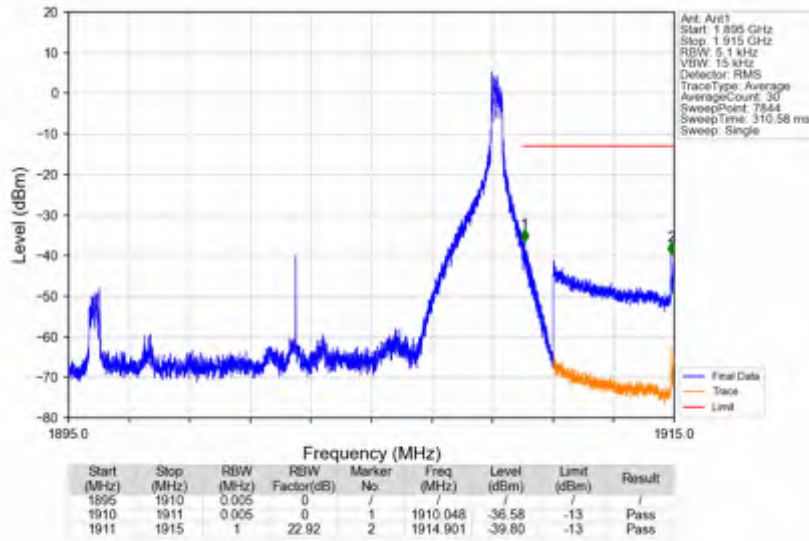
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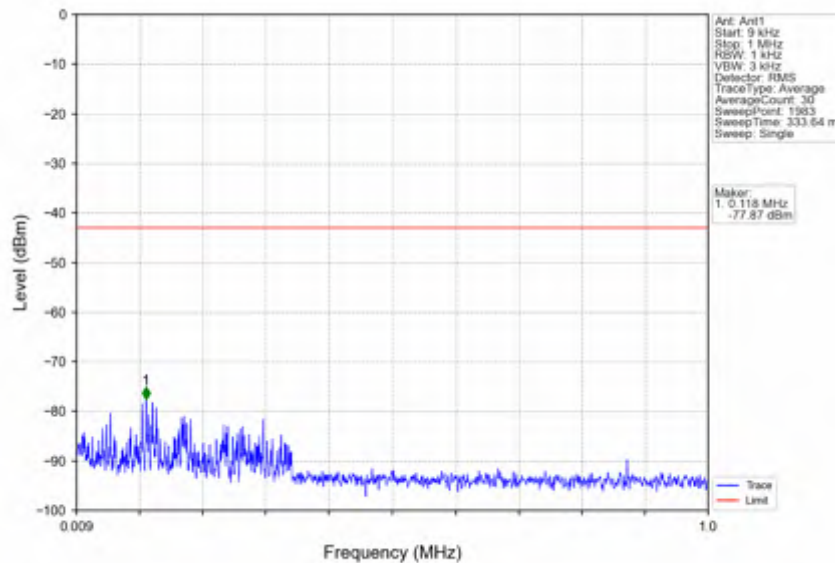
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Edge_1RB_Right

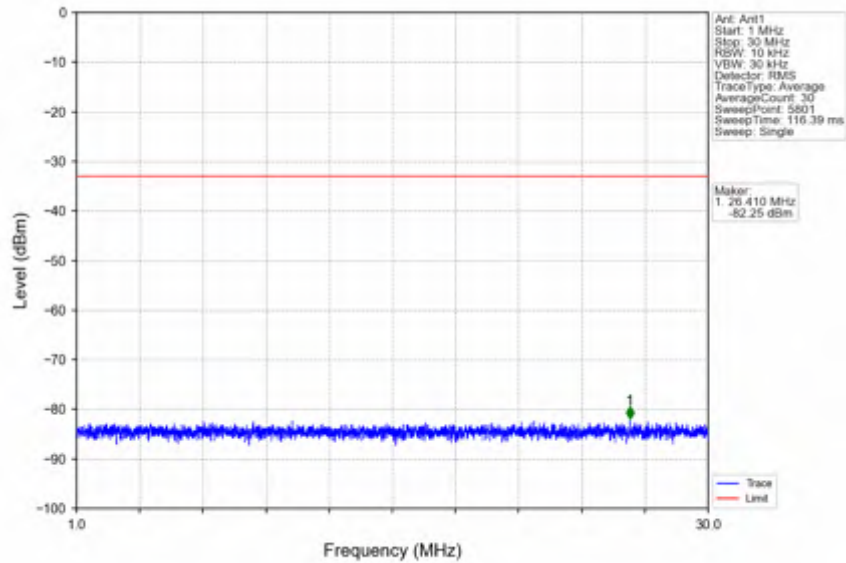


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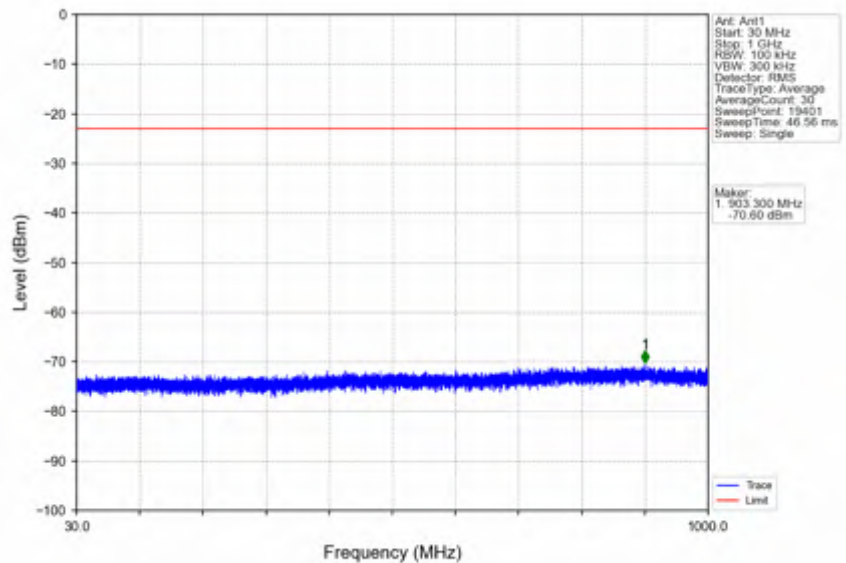
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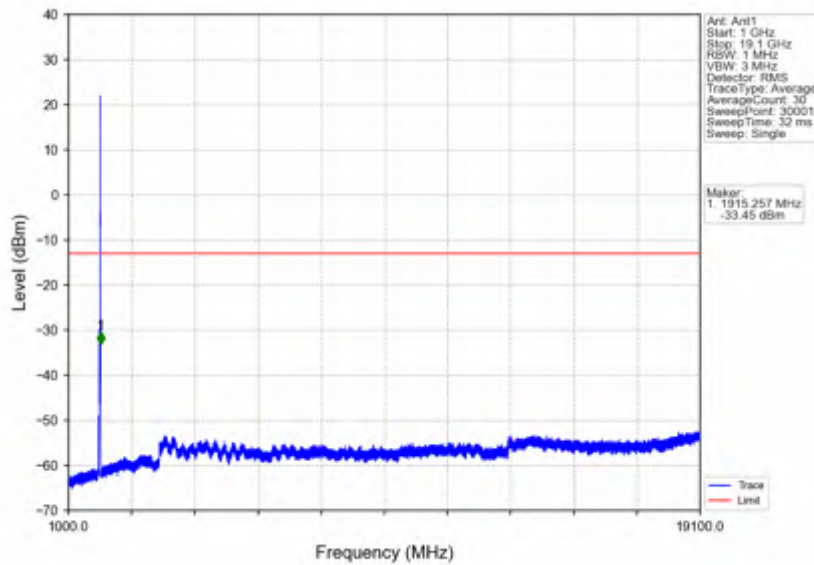
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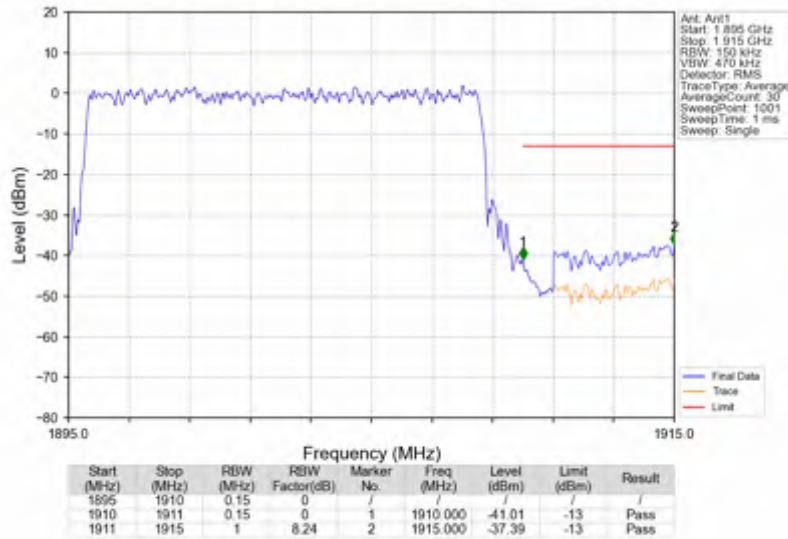
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Outer_Full



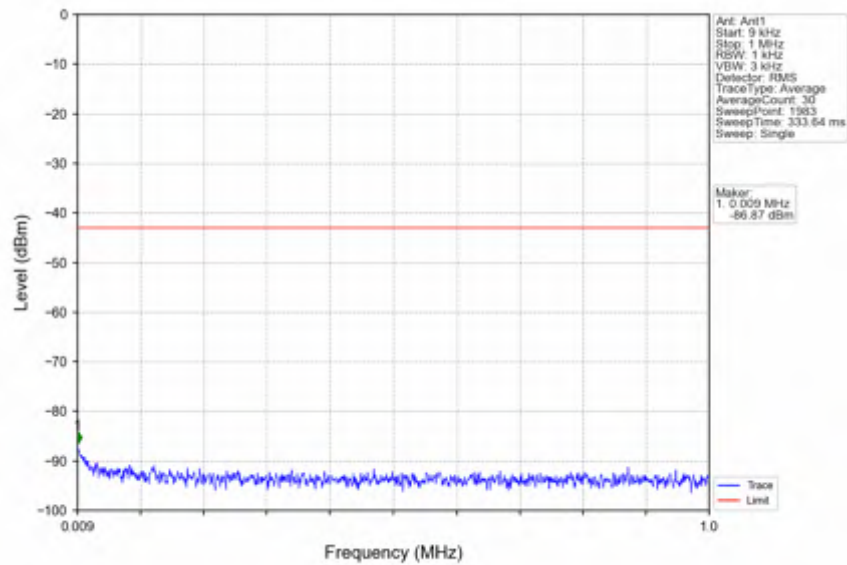
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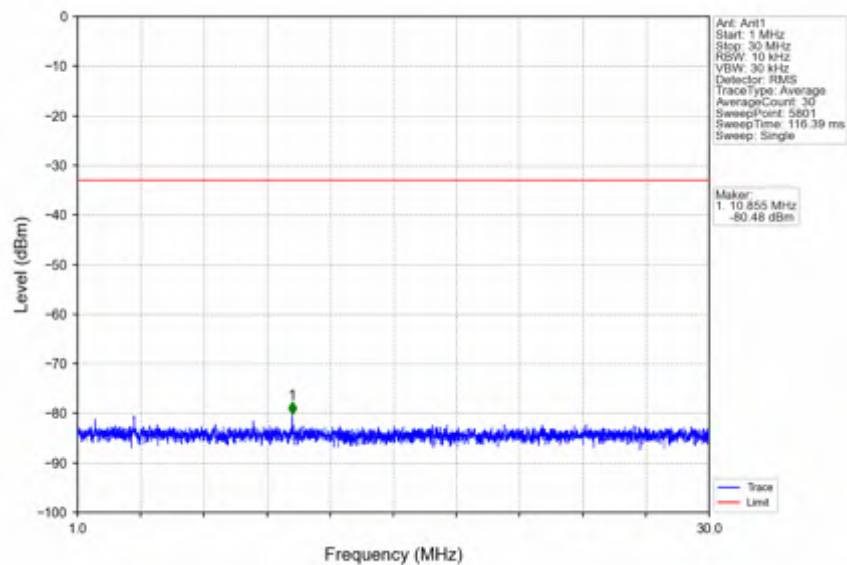
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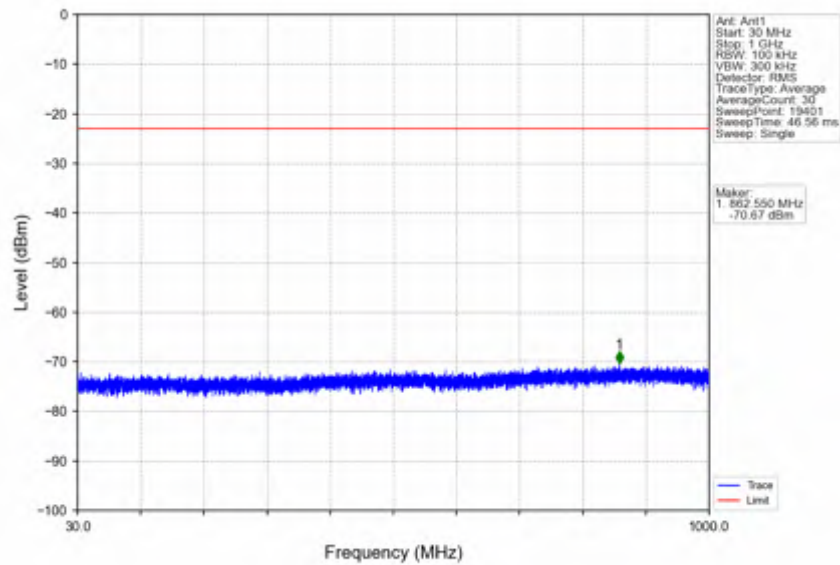
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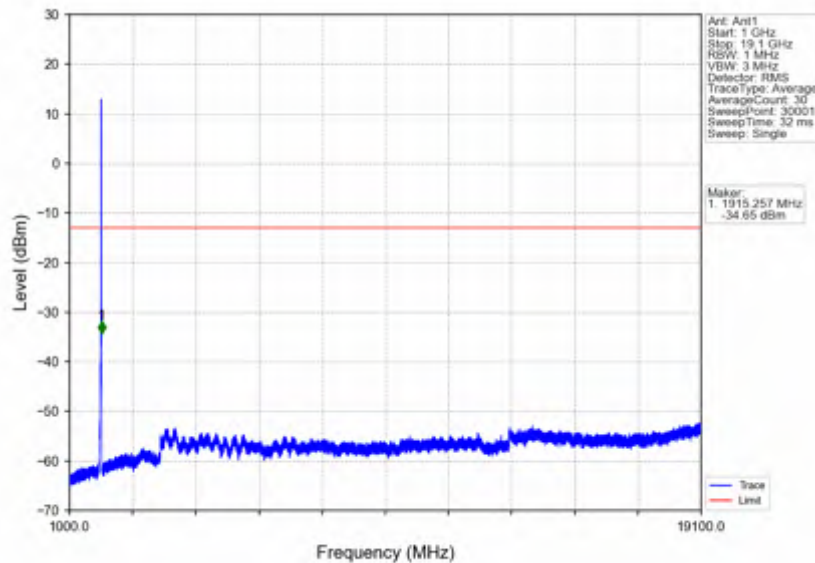
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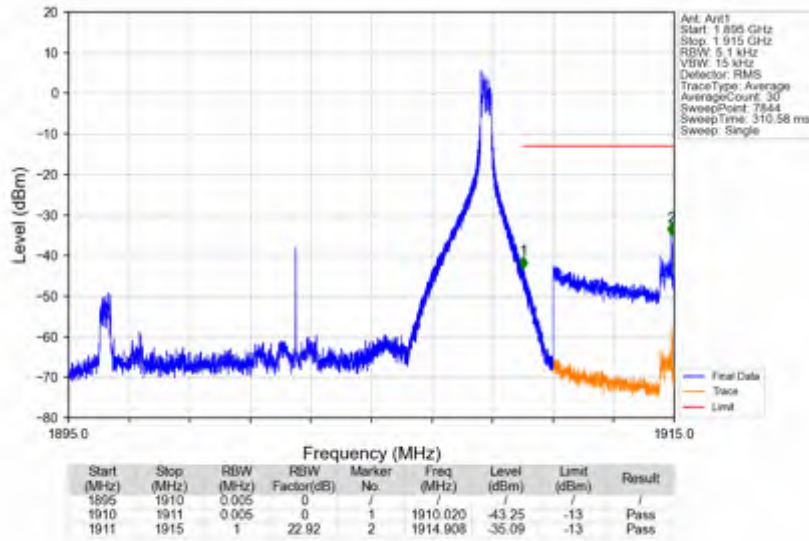
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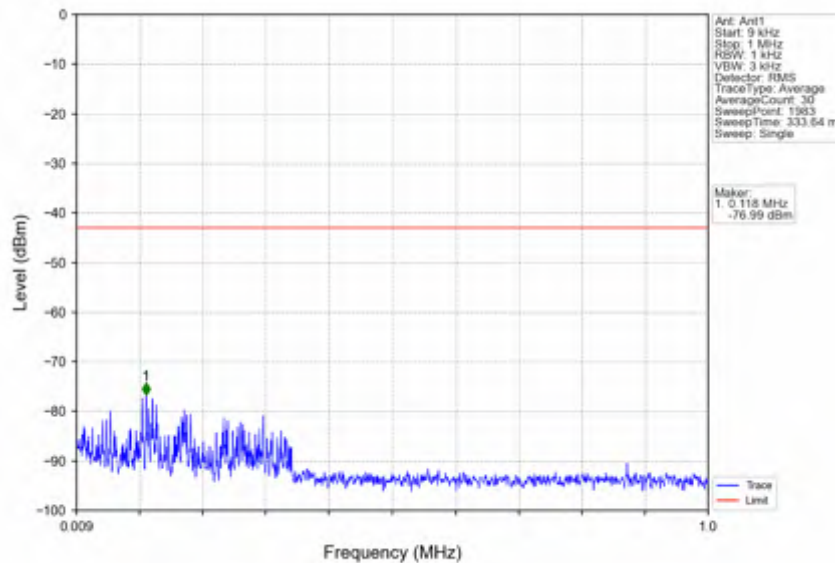
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Inner_1RB_Right

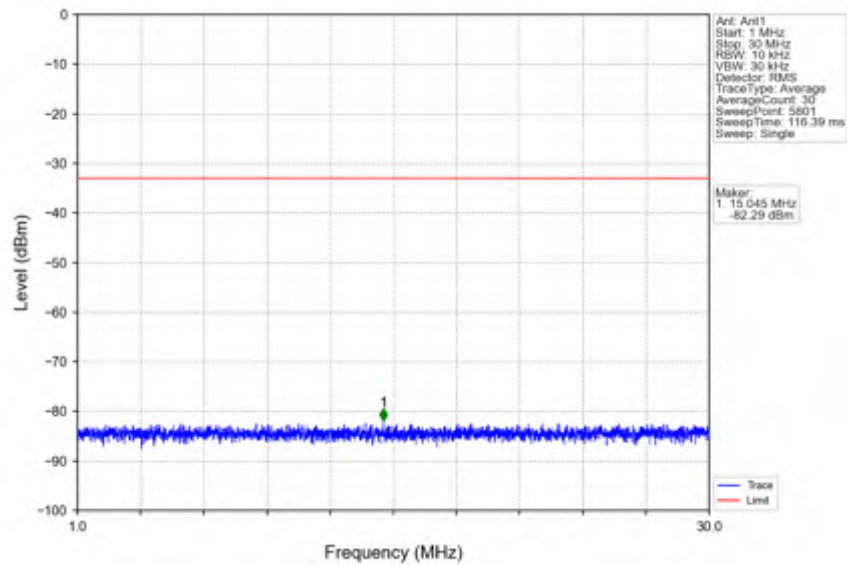


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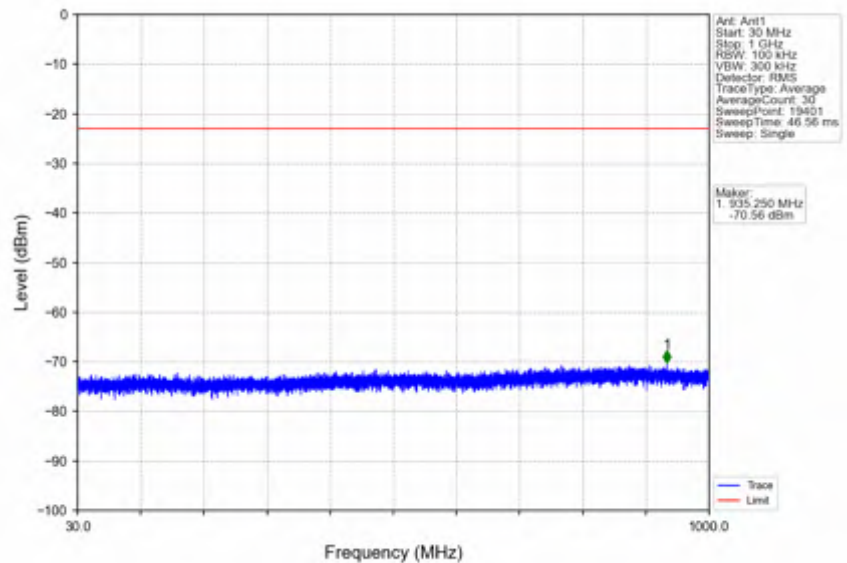
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Inner_1RB_Right



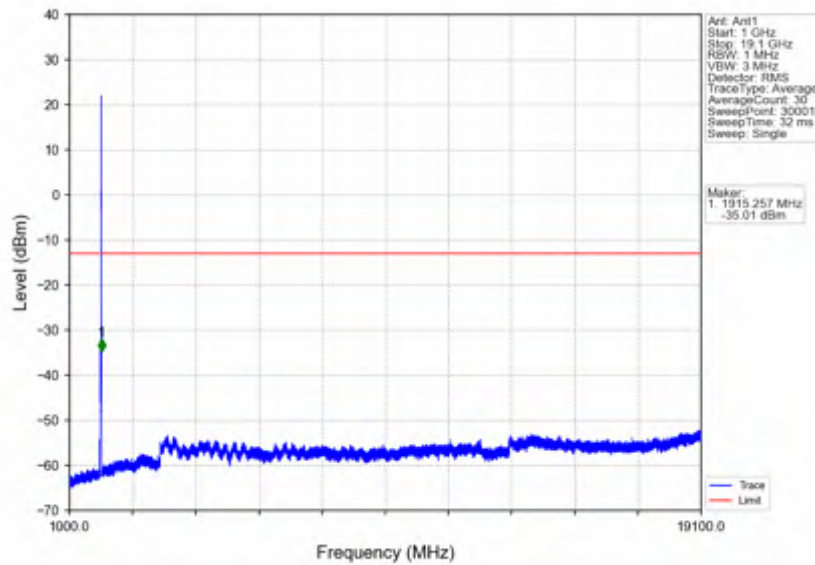
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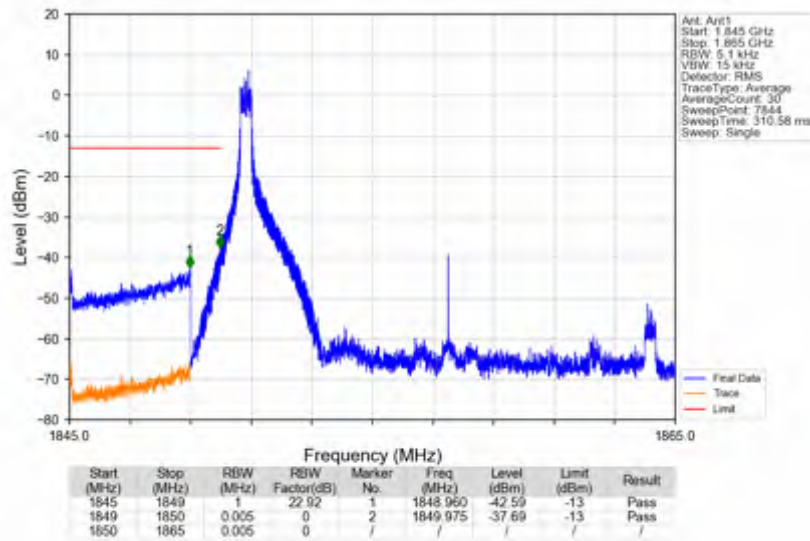
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Edge_1RB_Left



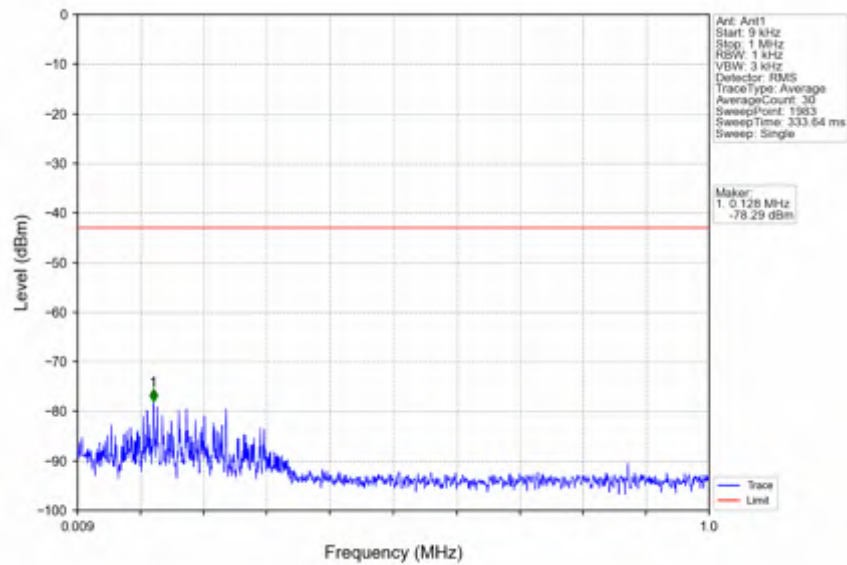
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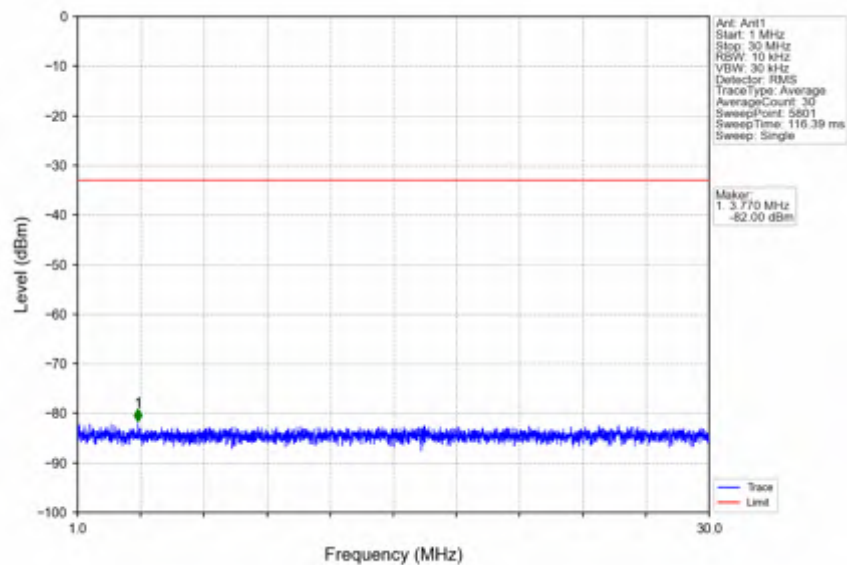
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n2_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Edge_1RB_Left



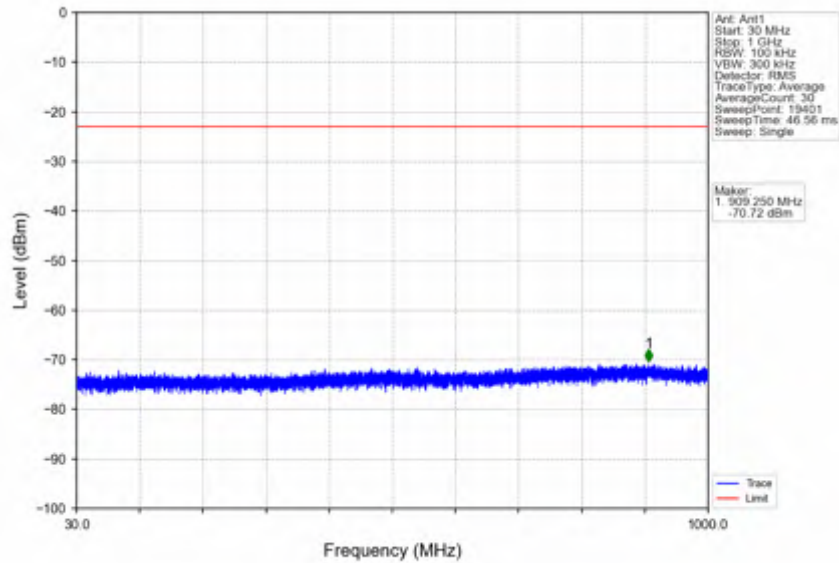
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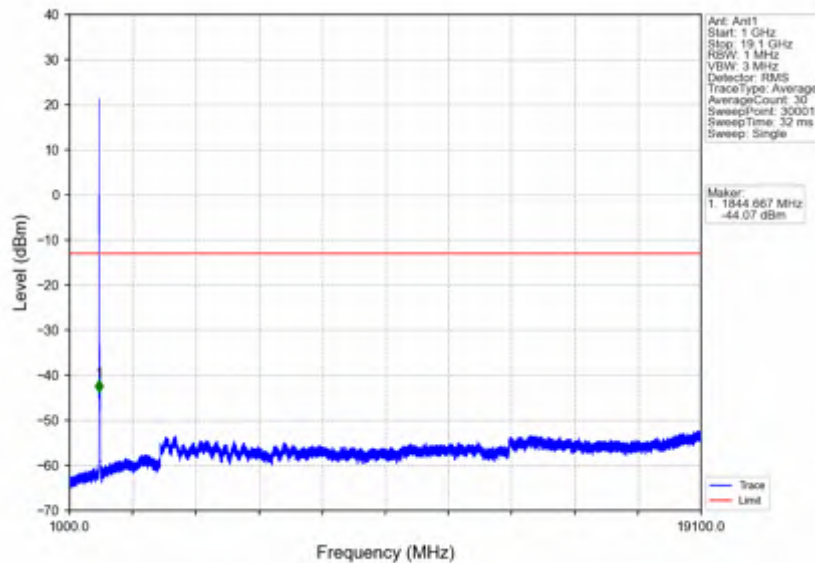
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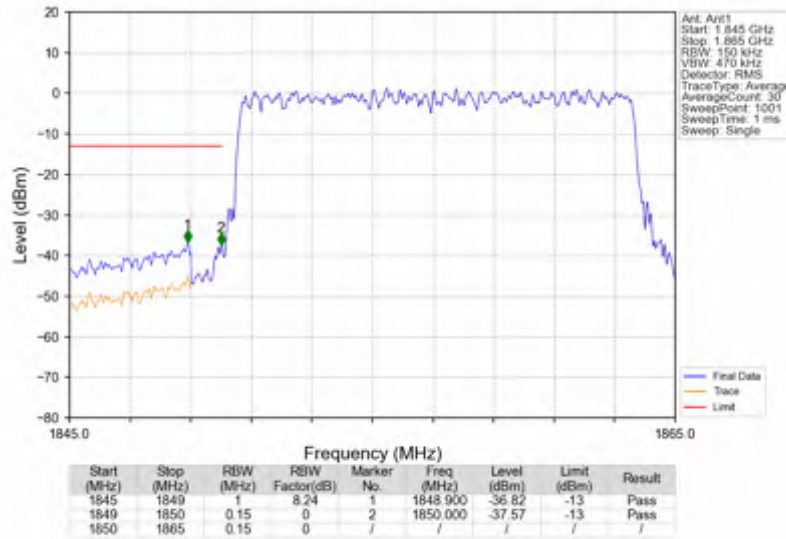


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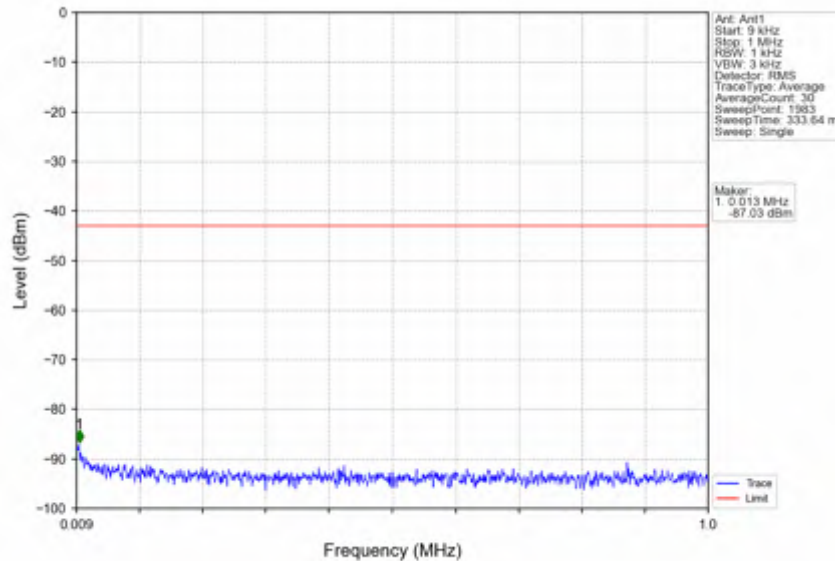
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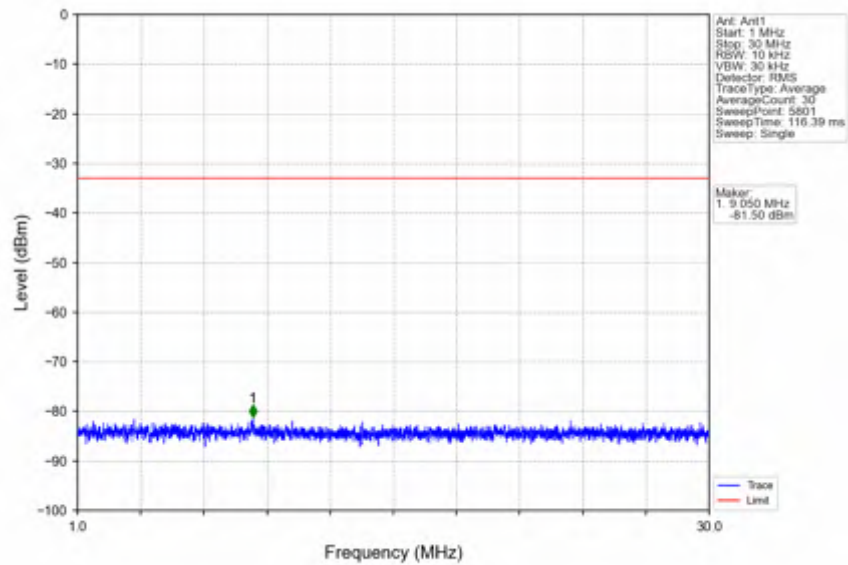


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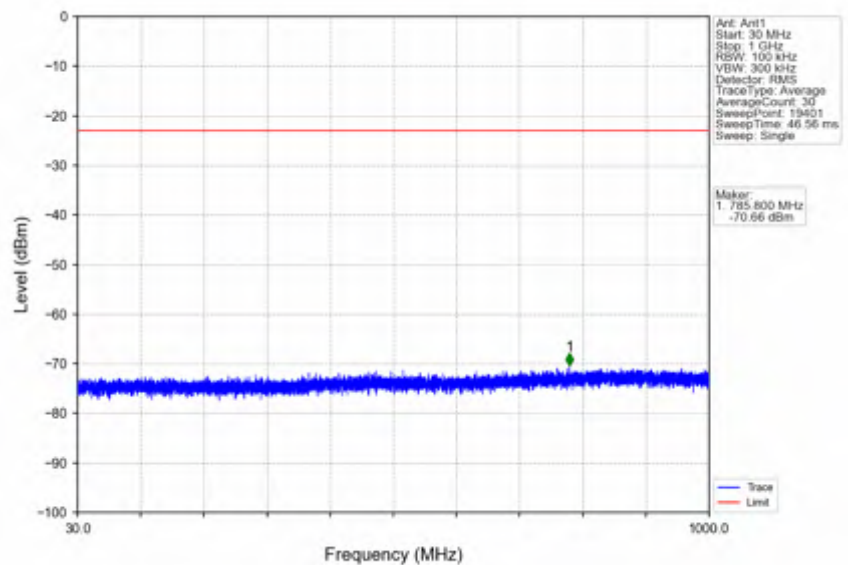
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