

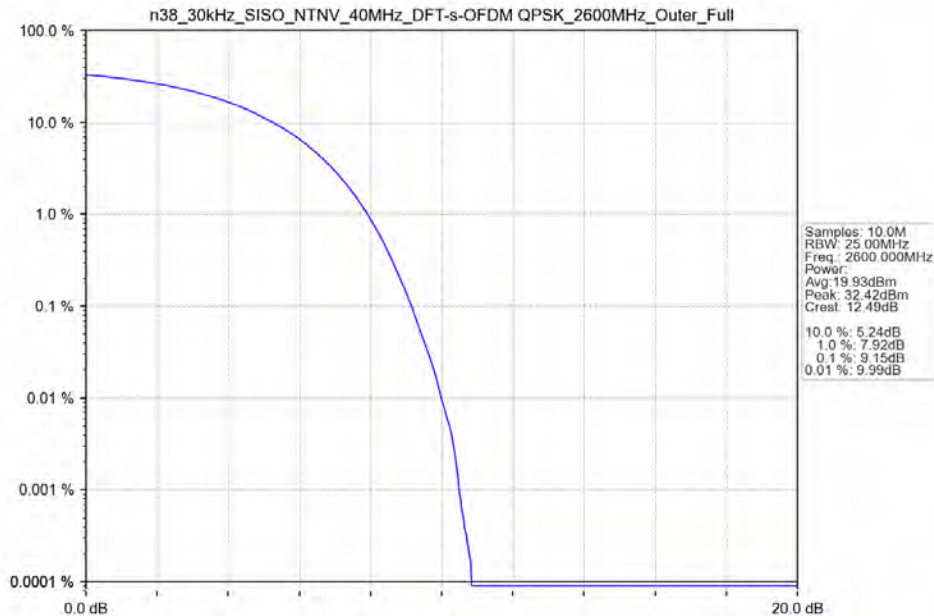


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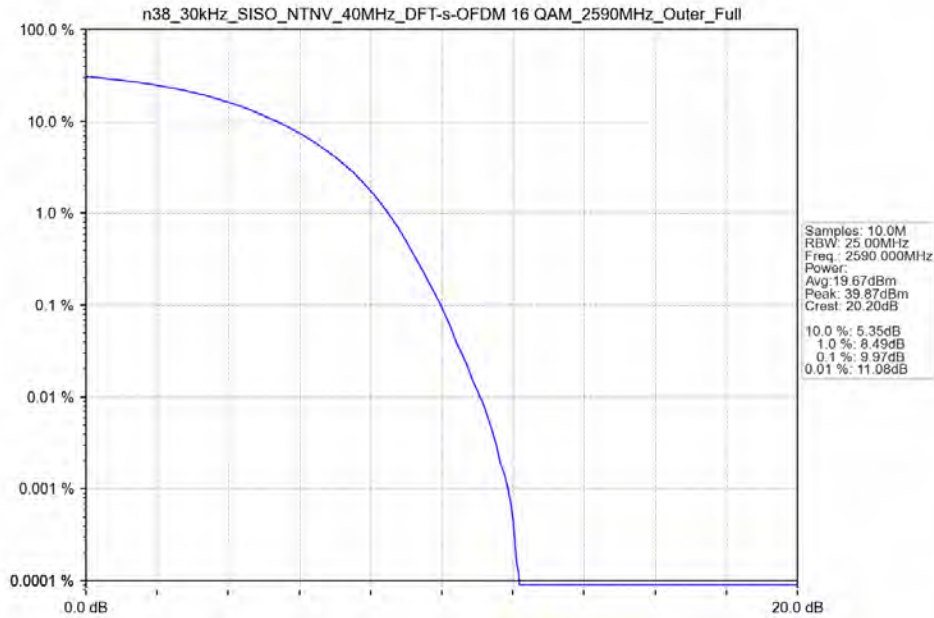
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2590MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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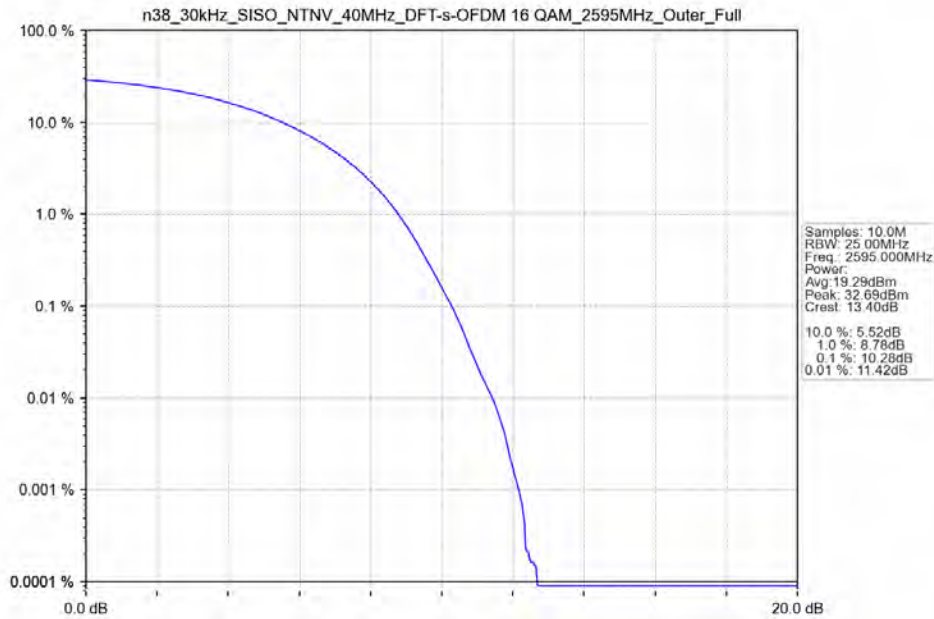


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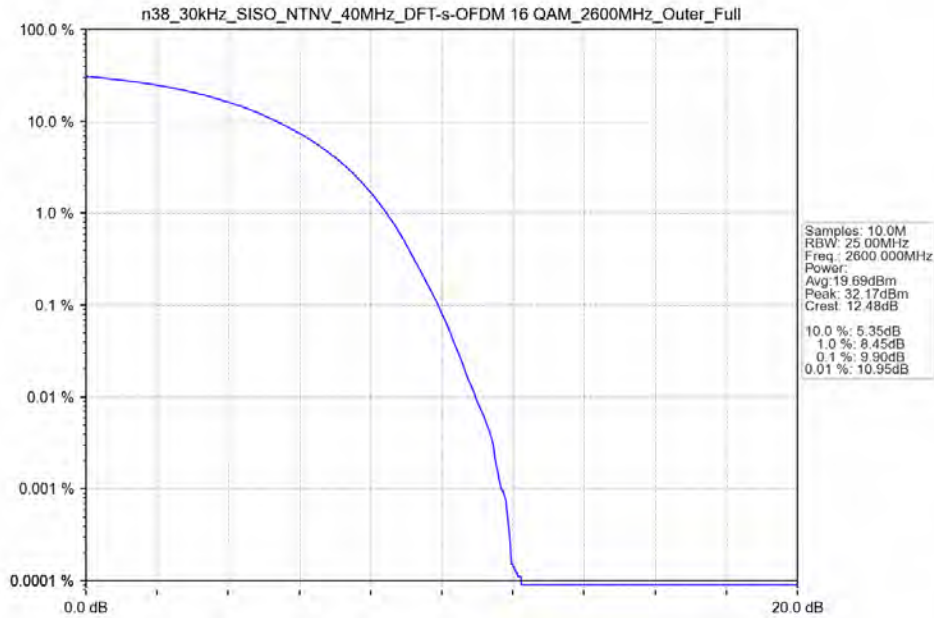
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2600MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_2590MHz_Outer_Full



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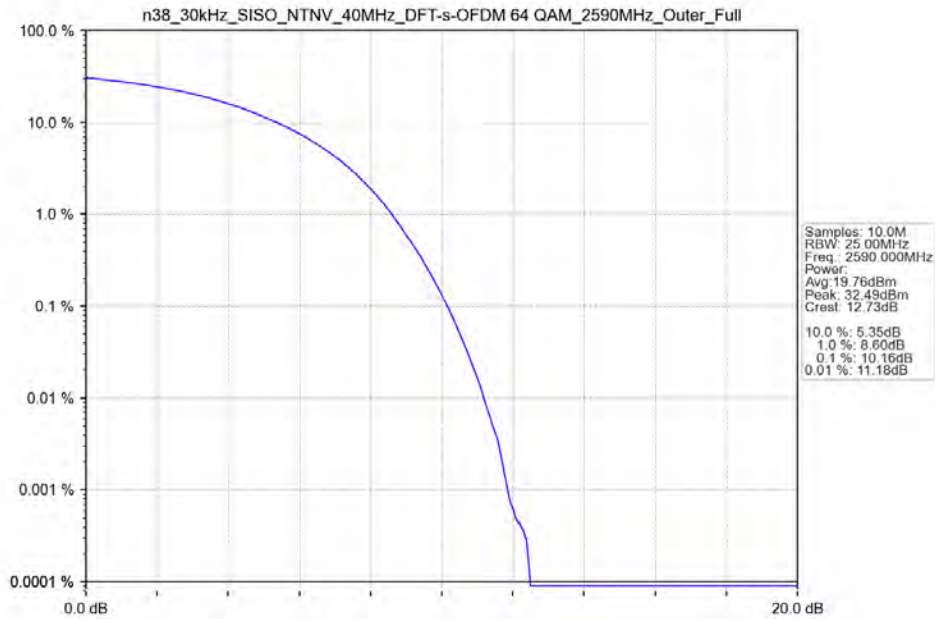


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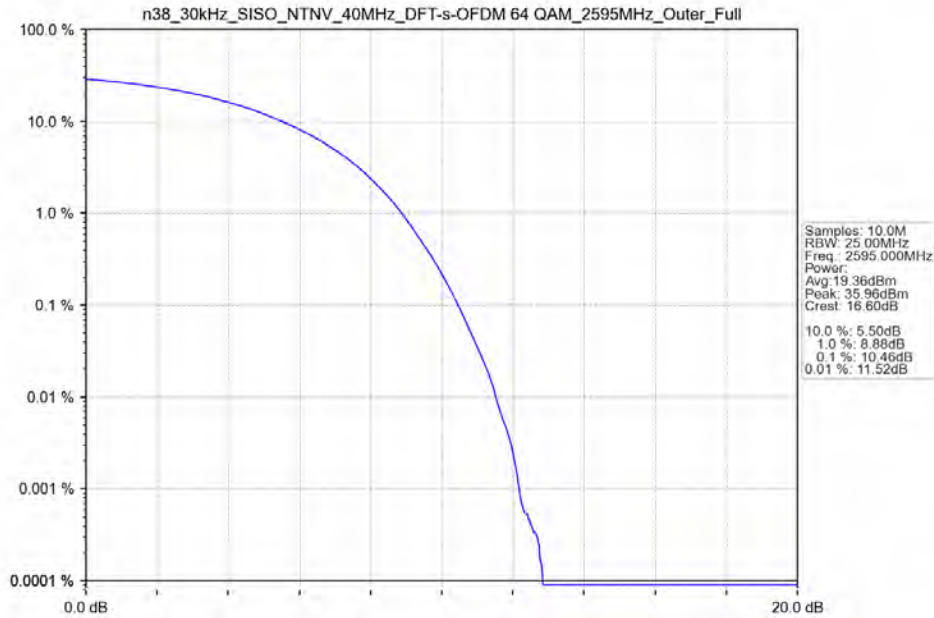
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_2600MHz_Outer_Full



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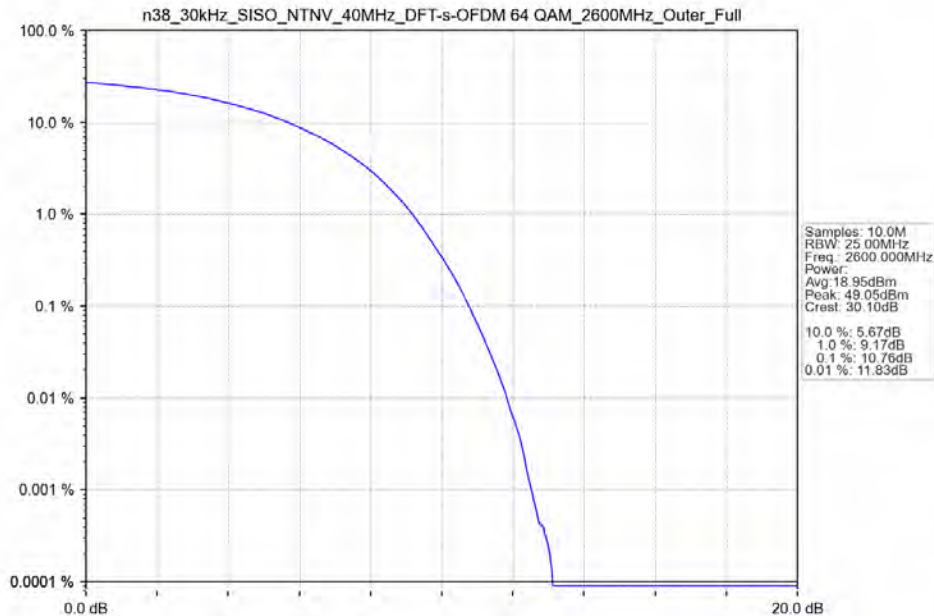


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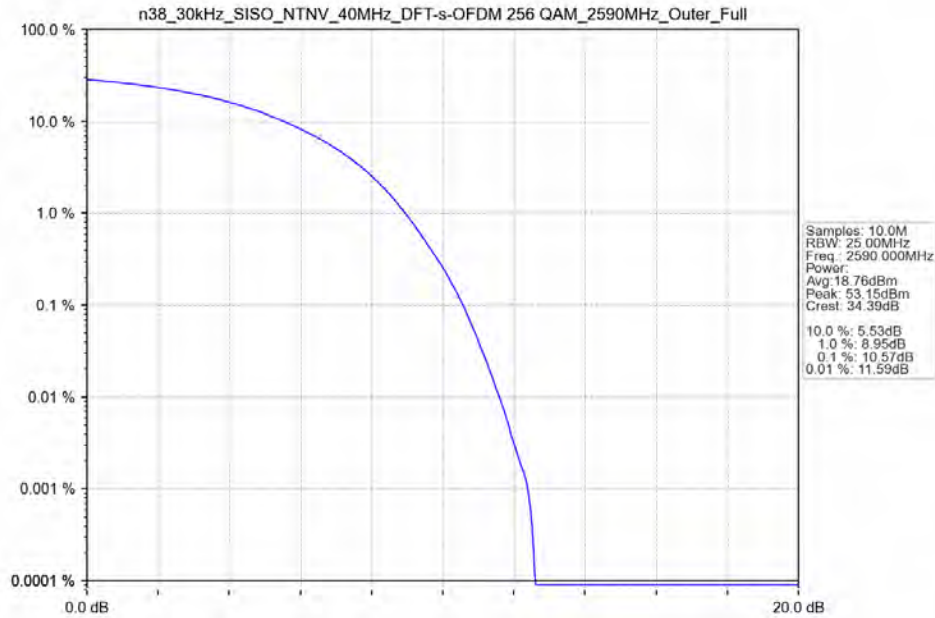
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2590MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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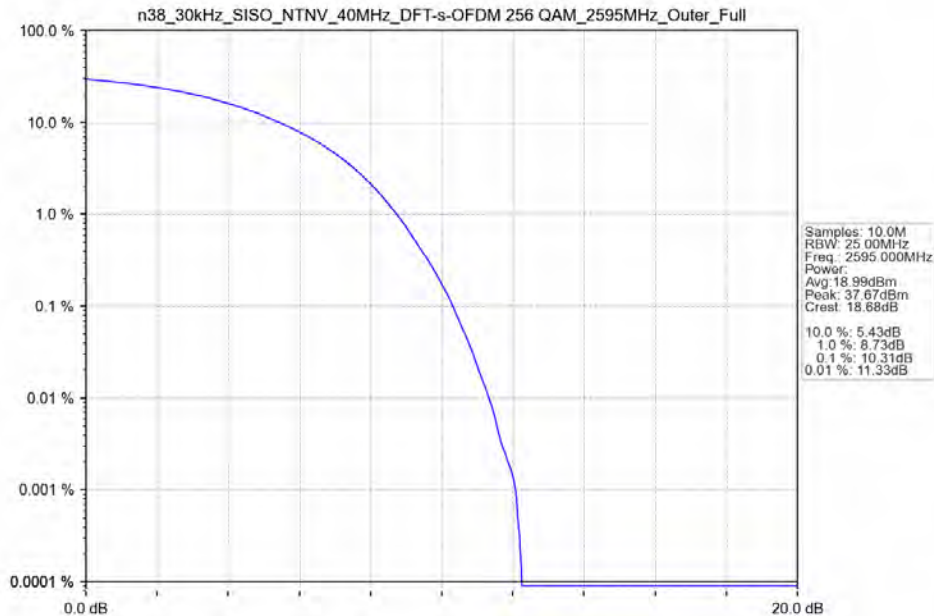


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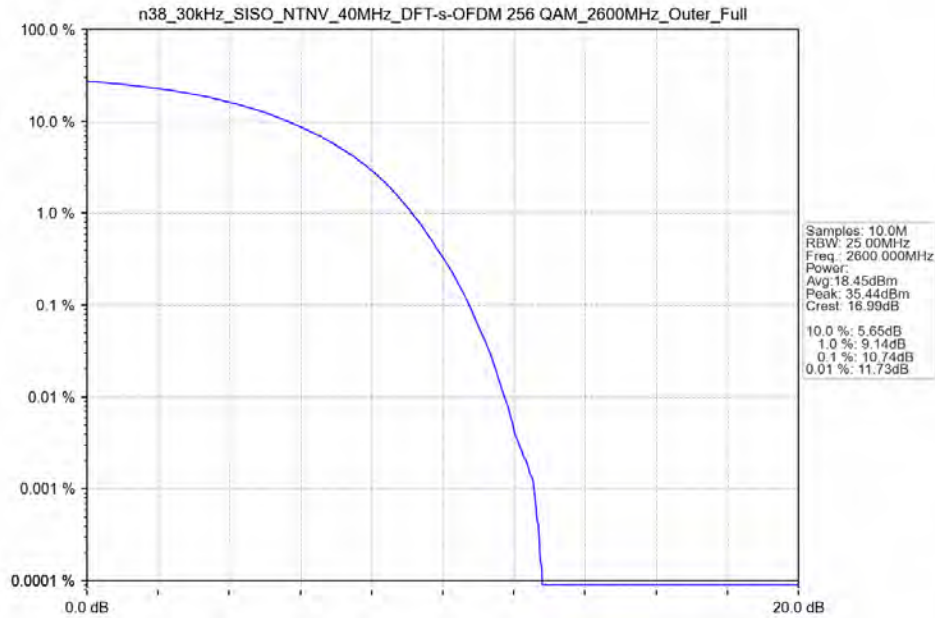
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2600MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2590MHz_Outer_Full



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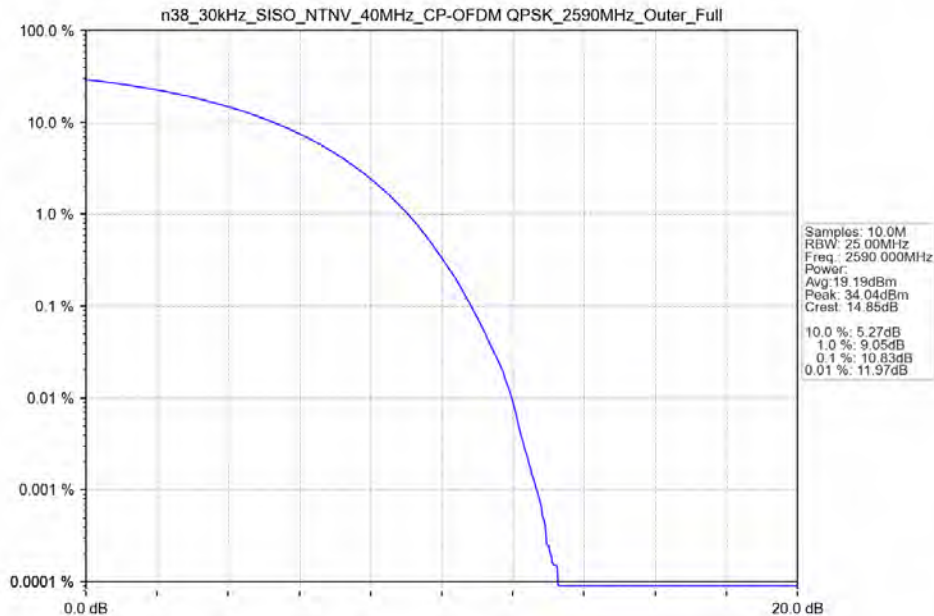


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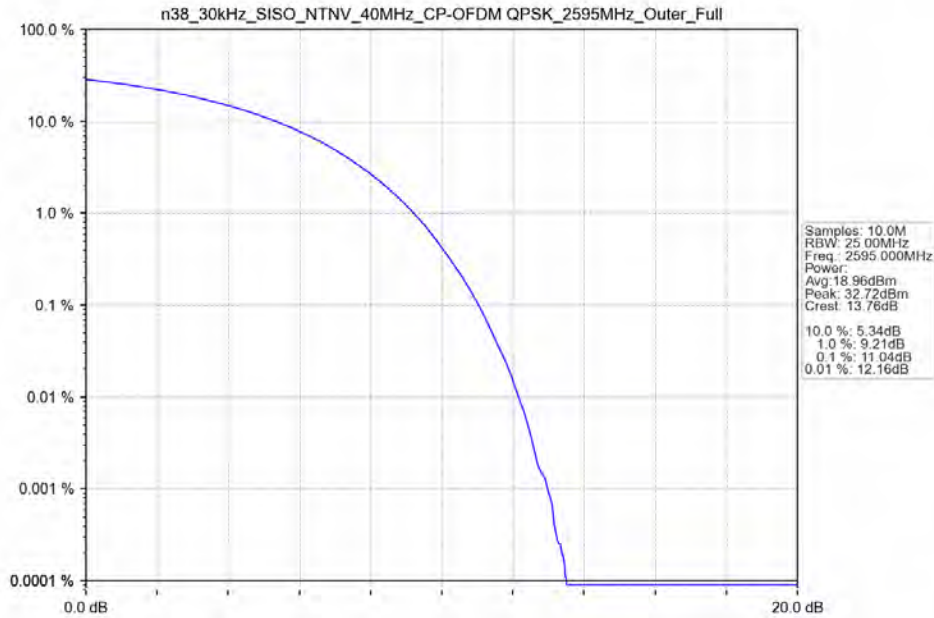
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2600MHz_Outer_Full



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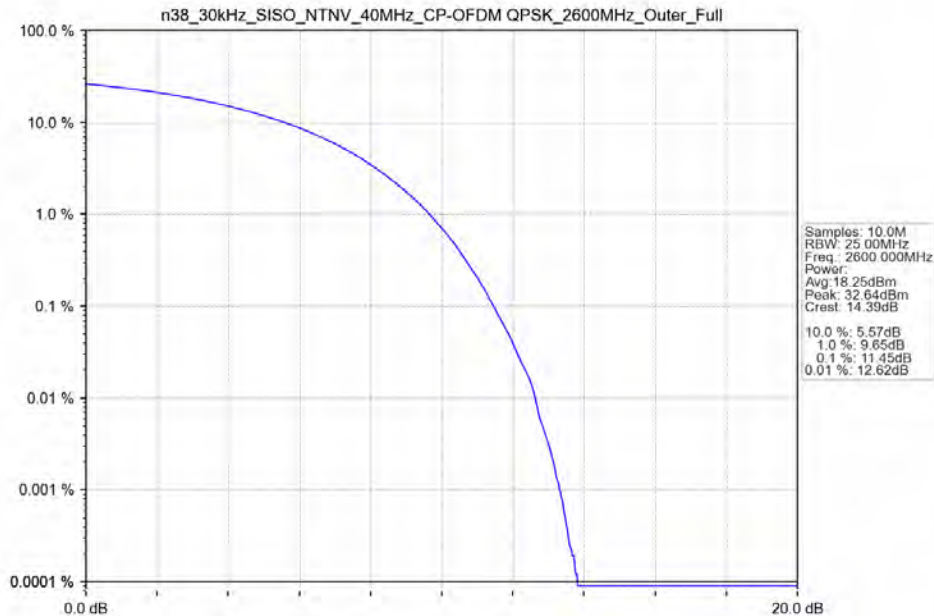


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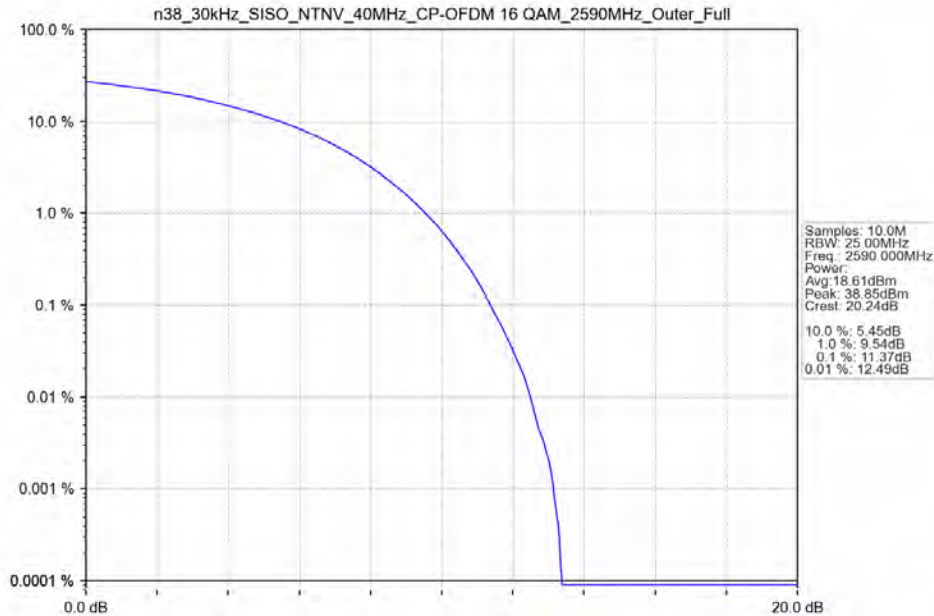
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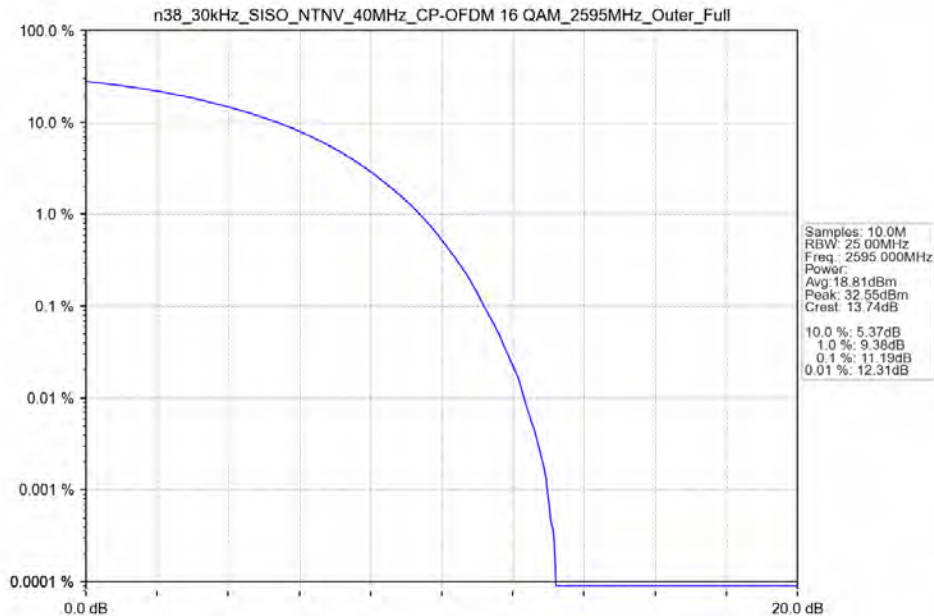


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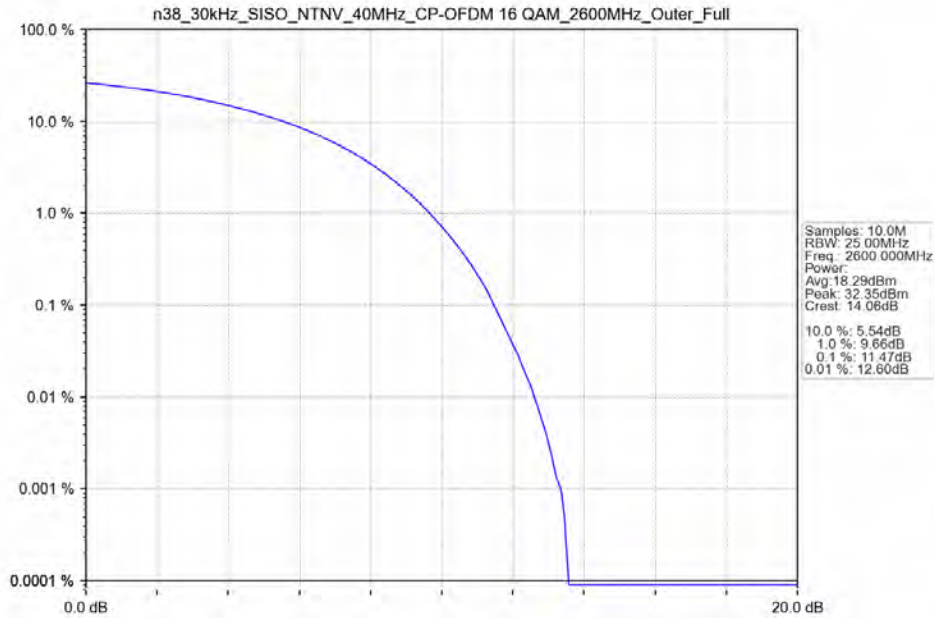
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2600MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2590MHz_Outer_Full



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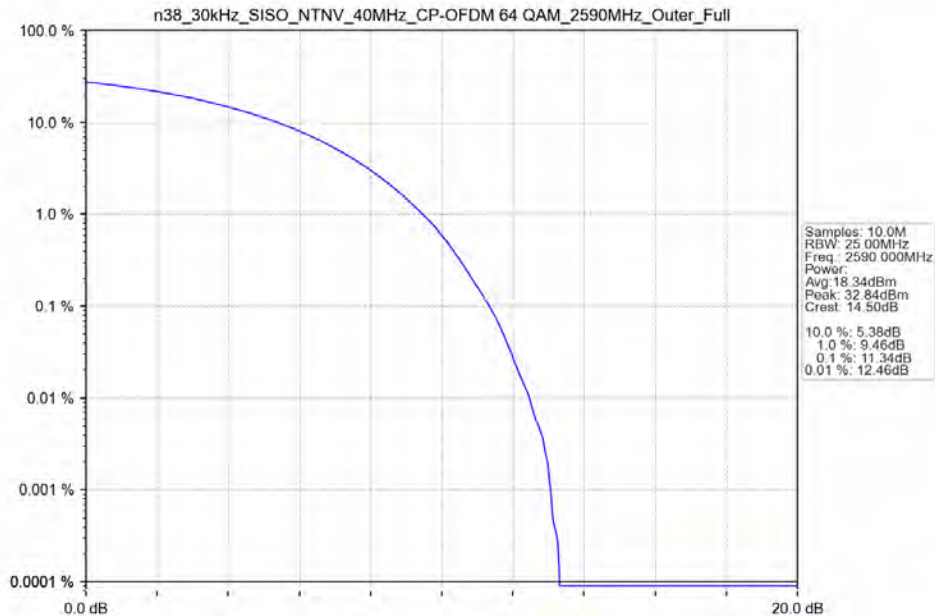


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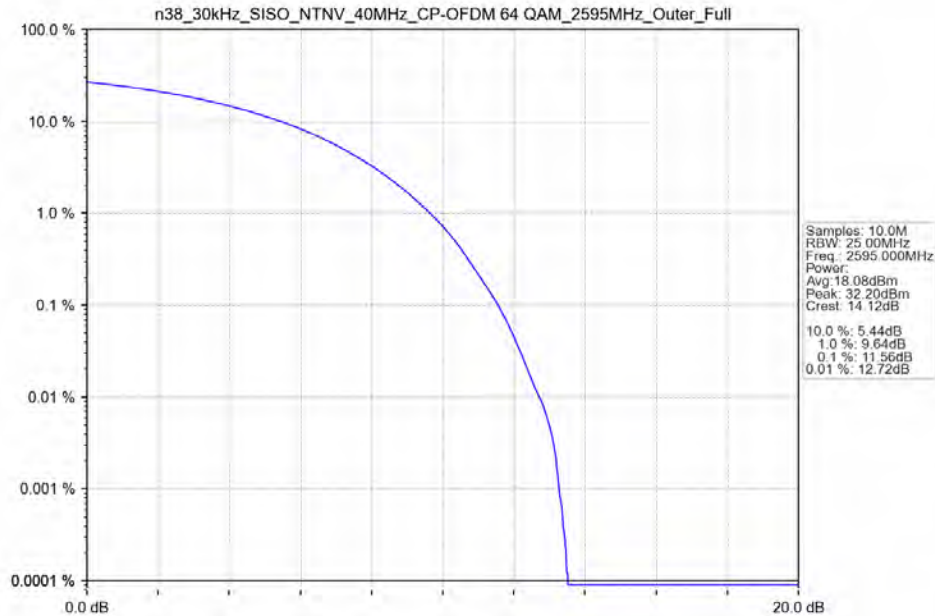
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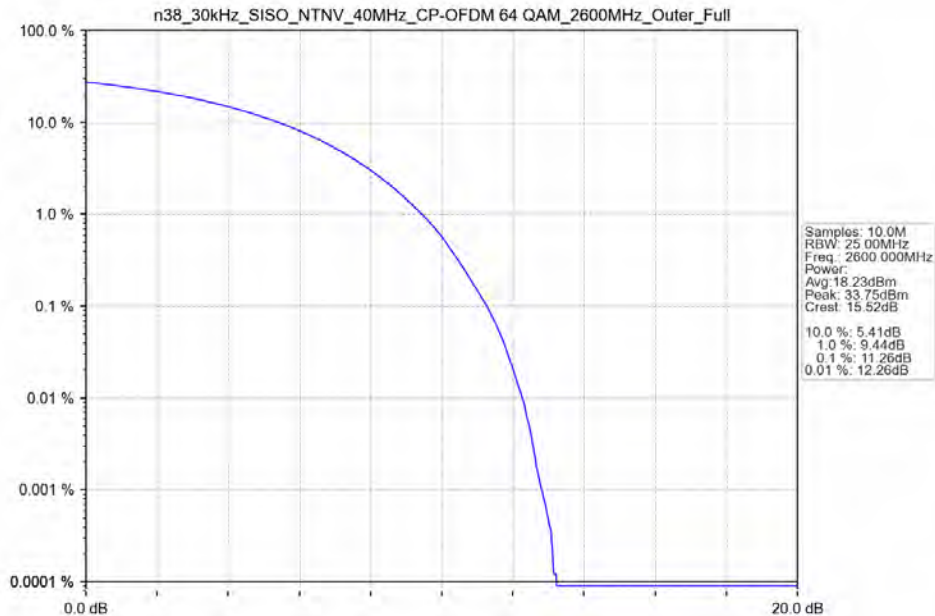


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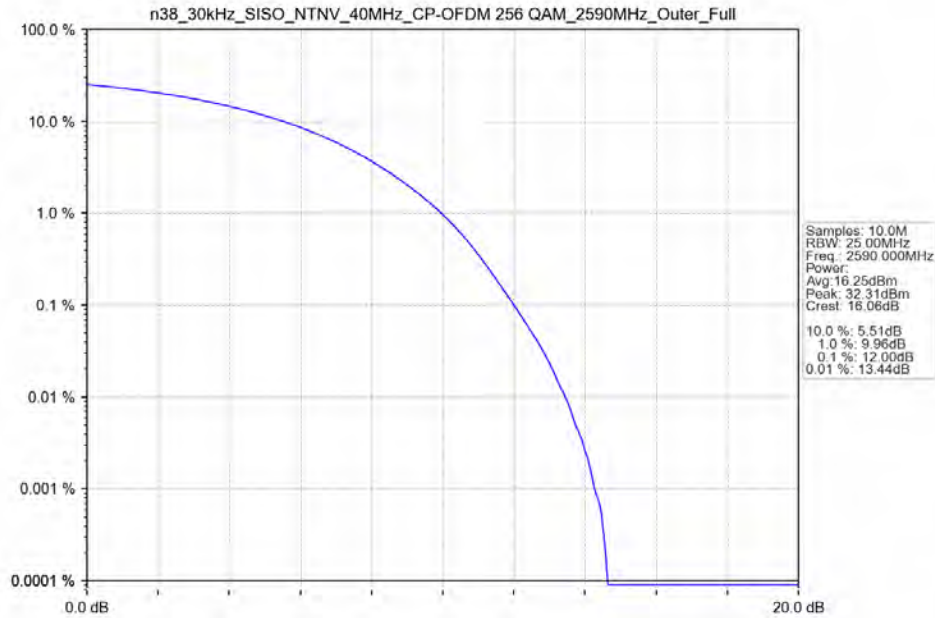
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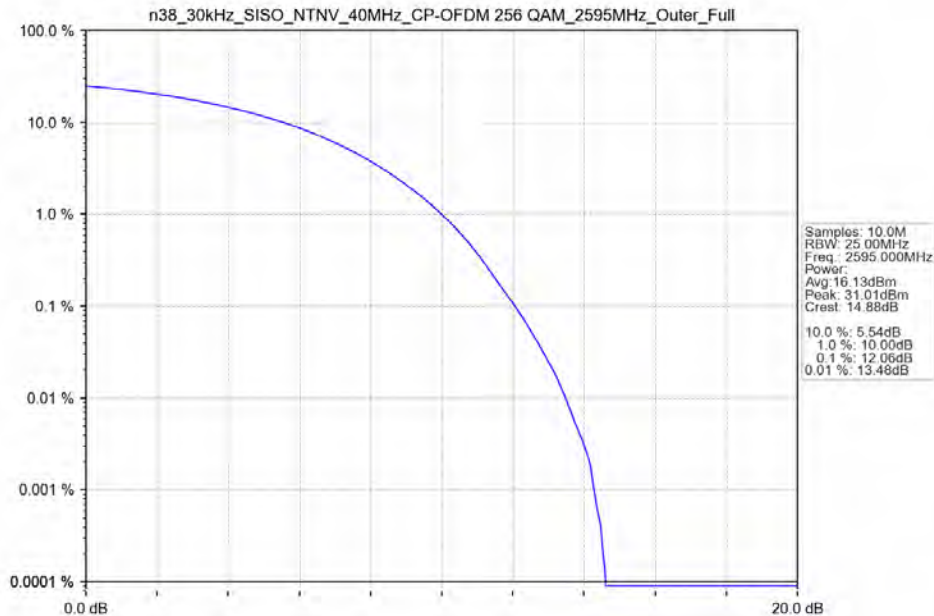


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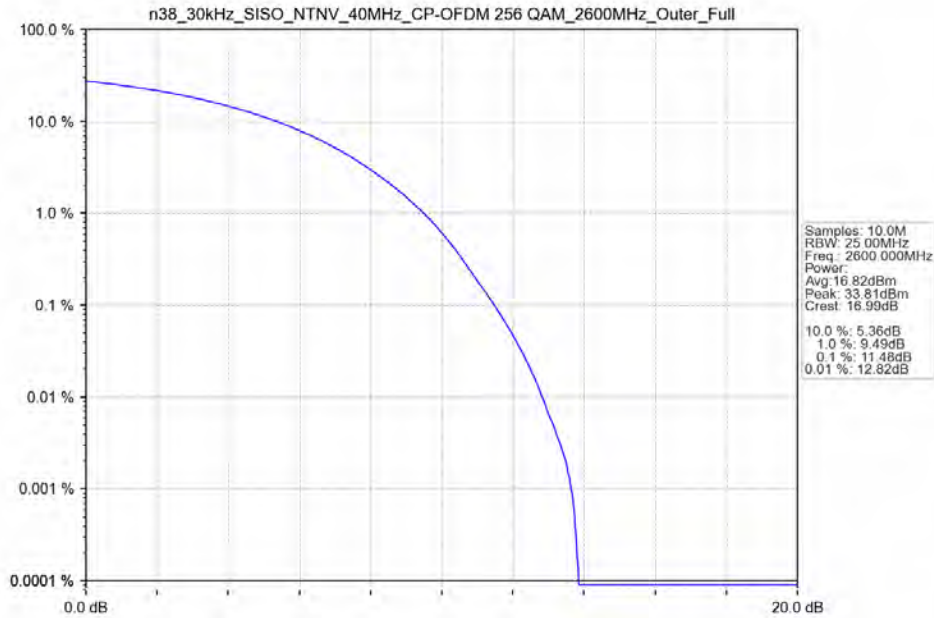
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5. Spurious Emission & Band Edges

5.1 30k_SISO_20MHz_NTNV

5.1.1 Test Result

5G NR n38 SCS=30kHz SISO 20MHz NTN								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant1	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	2580	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	2595	Edge_1RB_Left	Refer To Test Graph				Pass	
		2610	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
	Inner_1RB_Right		Refer To Test Graph				Pass	
	DFT-s-OFDM QPSK	2580	Edge_1RB_Left	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
Inner_1RB_Left			Refer To Test Graph				Pass	
2595		Edge_1RB_Left	Refer To Test Graph				Pass	
		2610	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	2580	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	2595	Edge_1RB_Left	Refer To Test Graph				Pass	
		2610	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass



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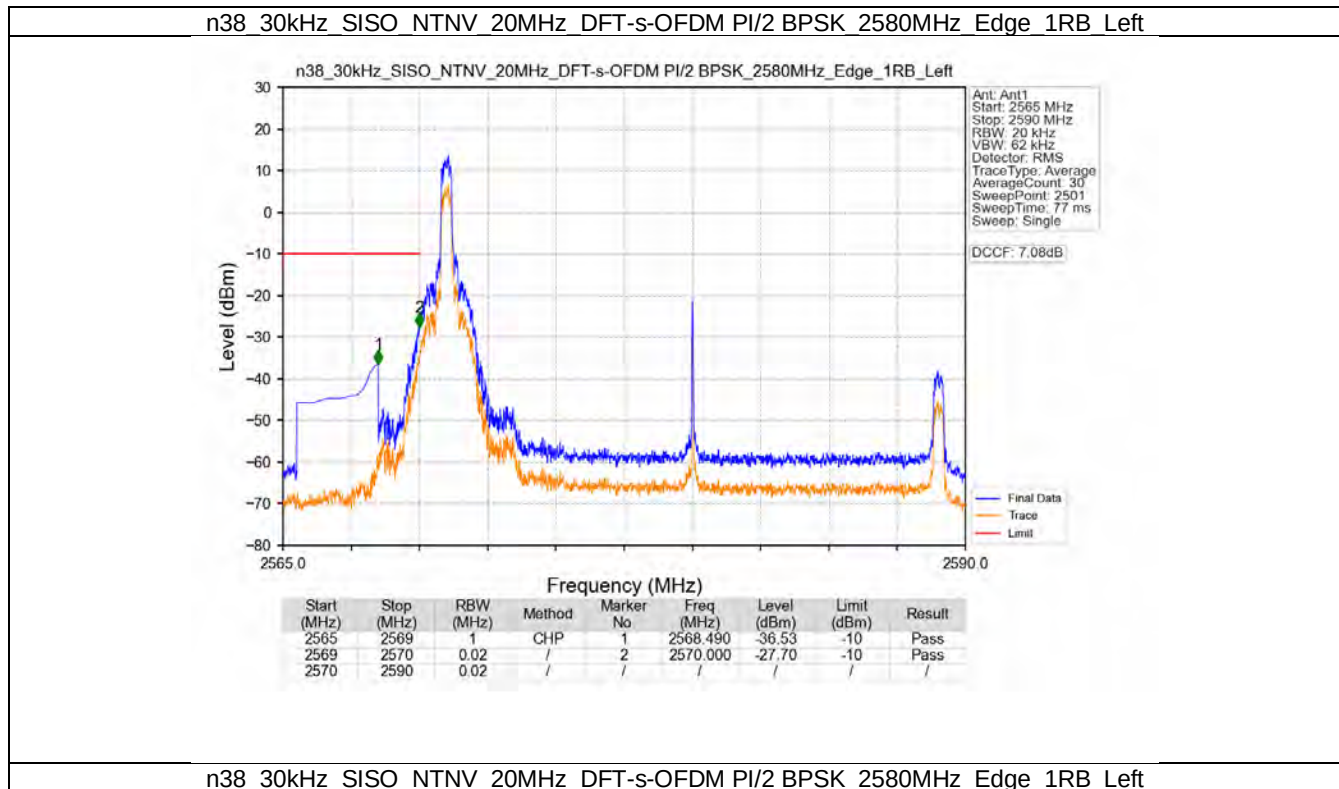
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5.1.2 Test Graph



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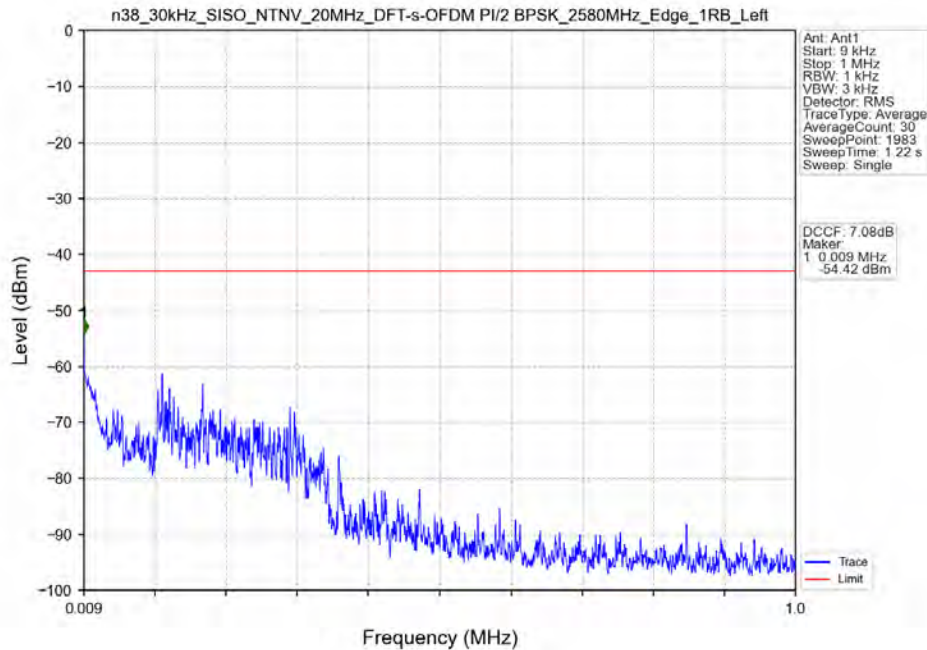


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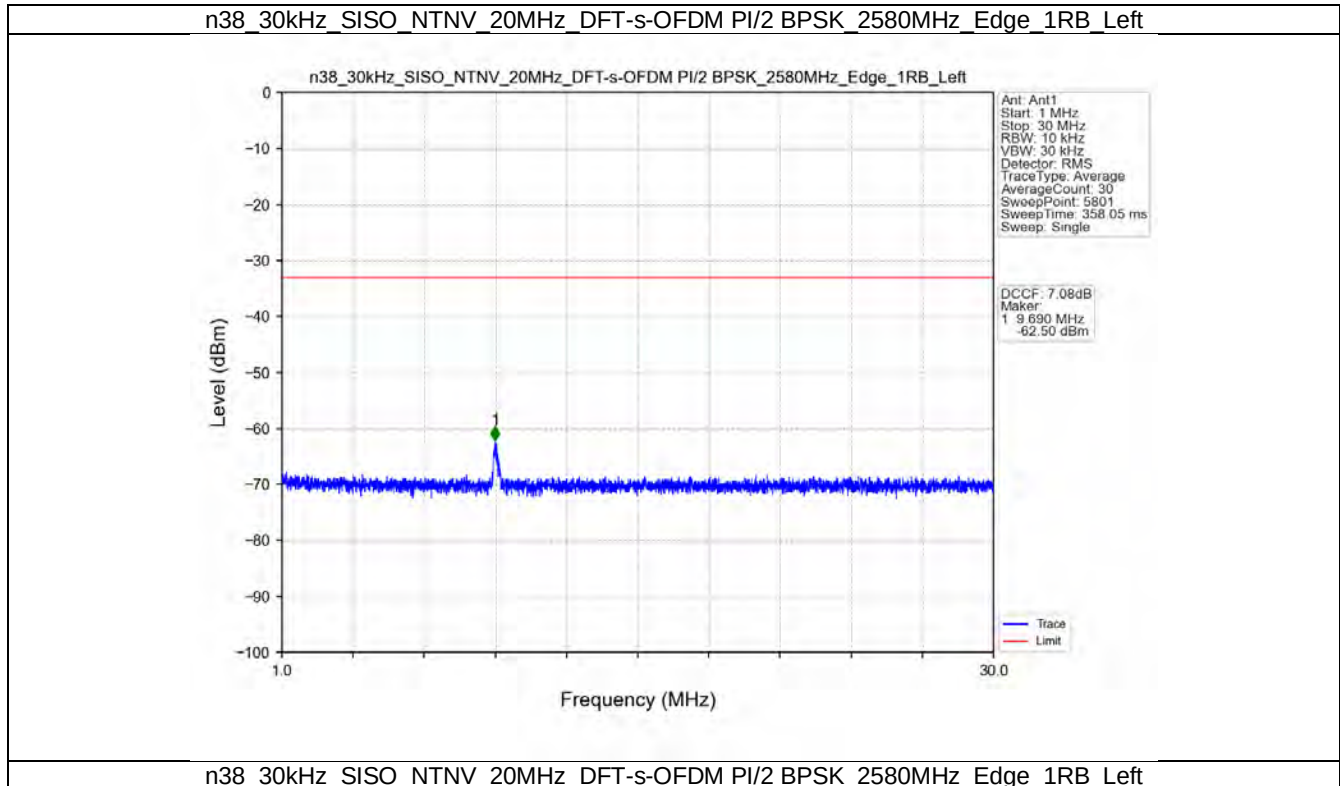


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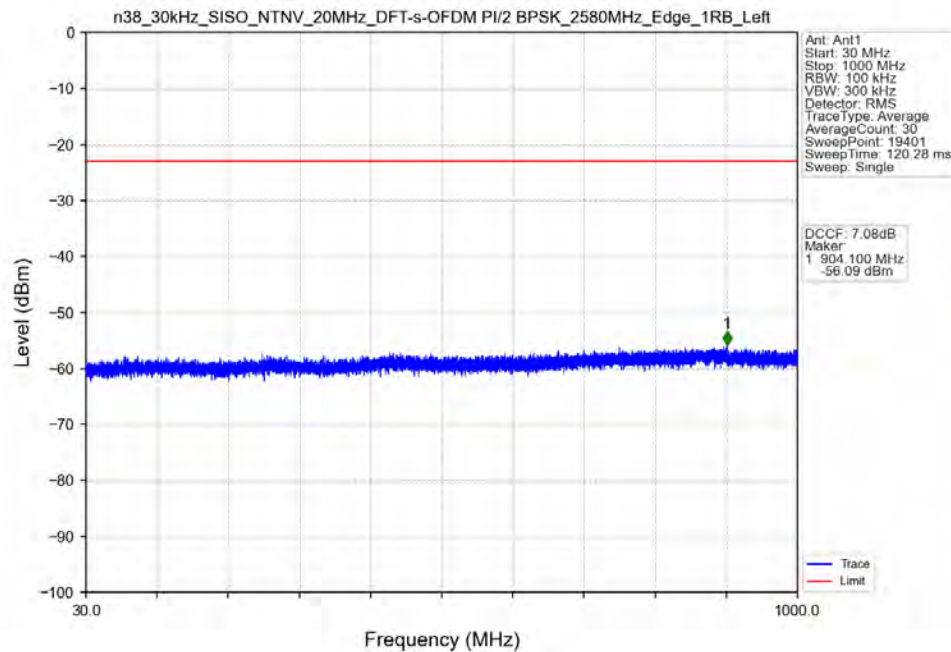


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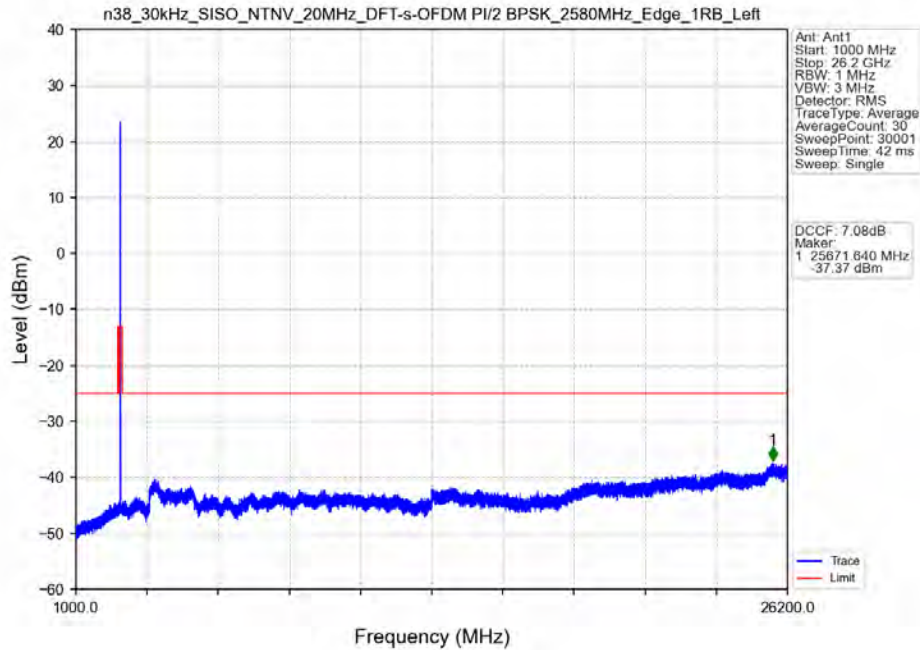
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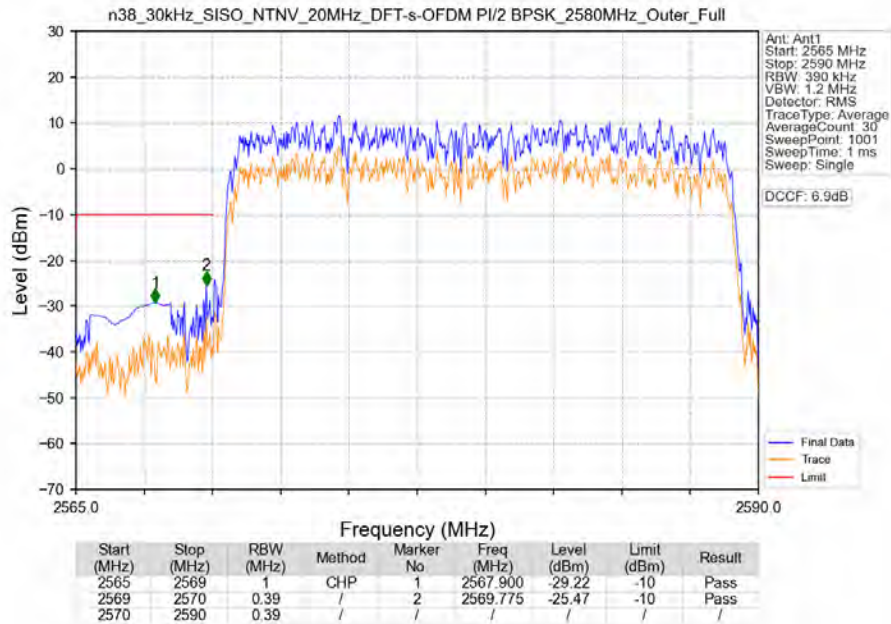


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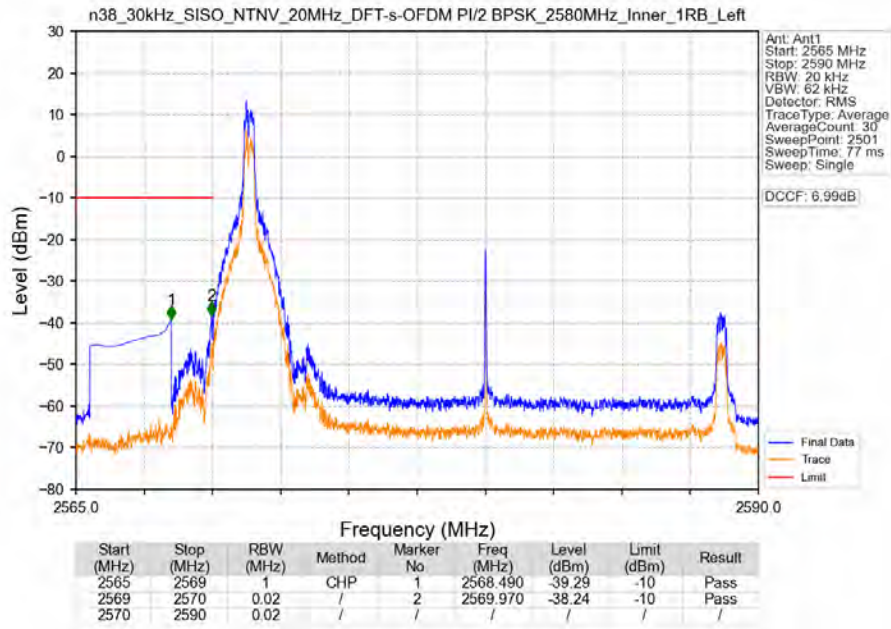
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left



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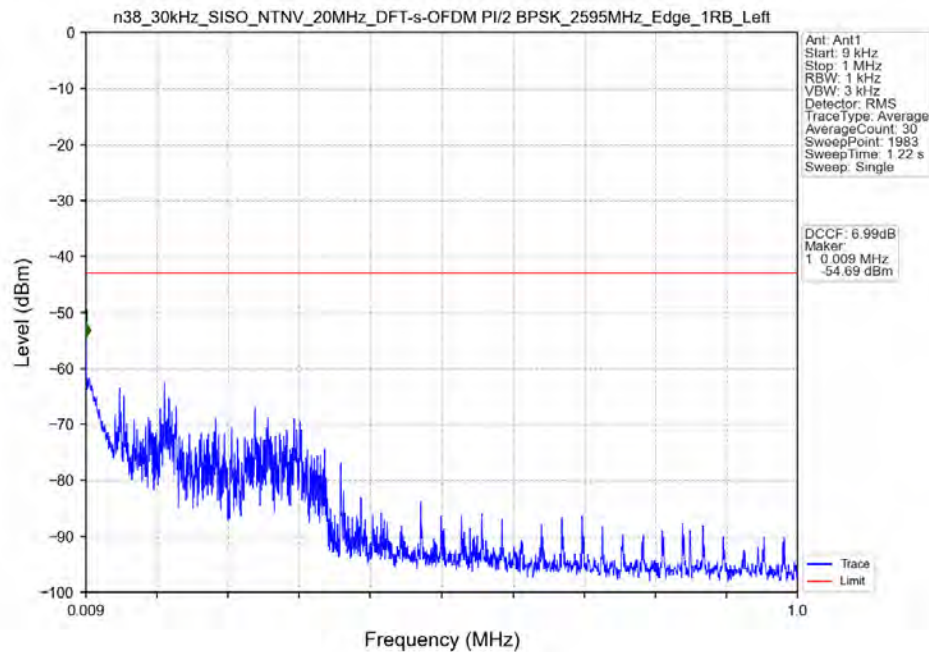


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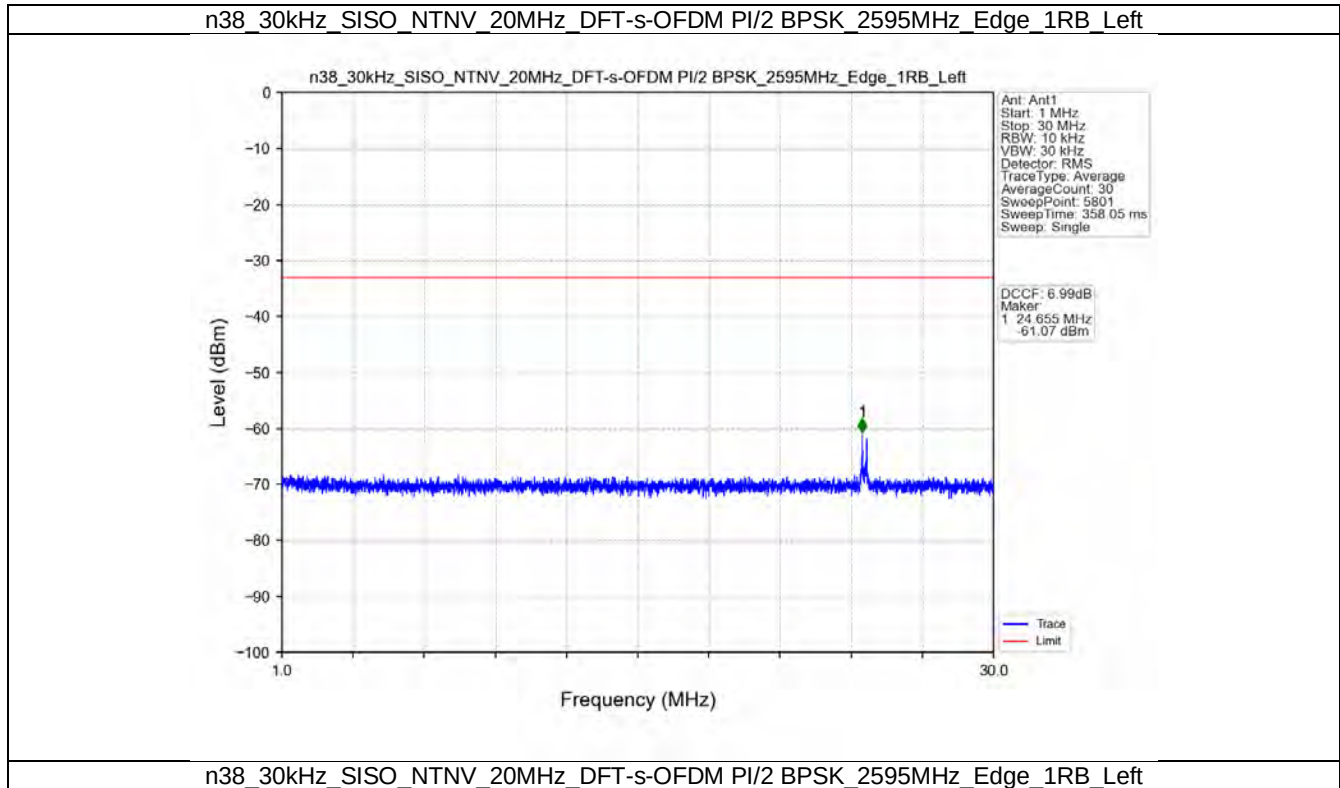


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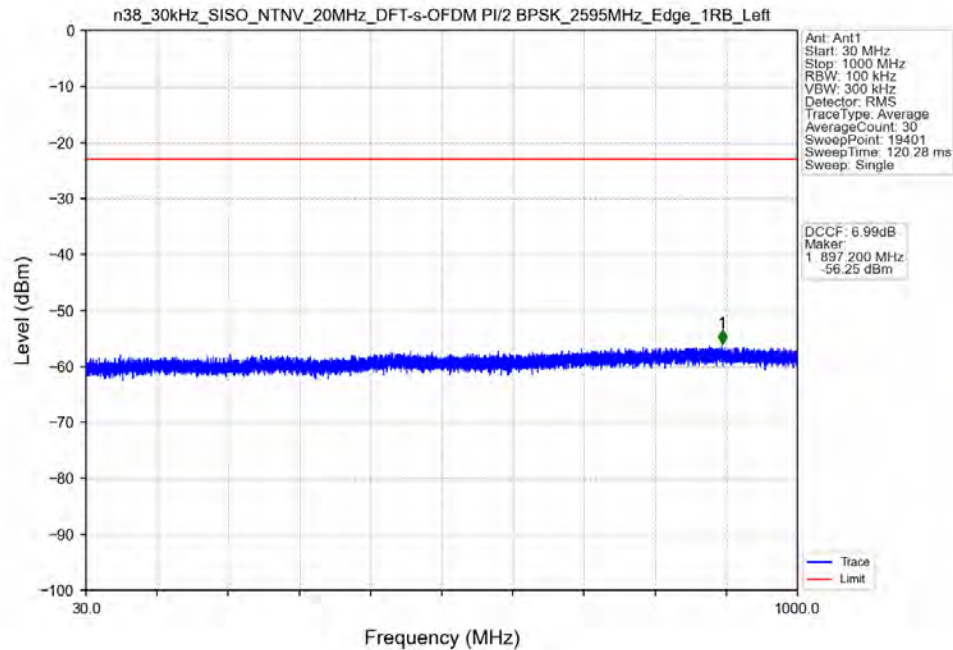


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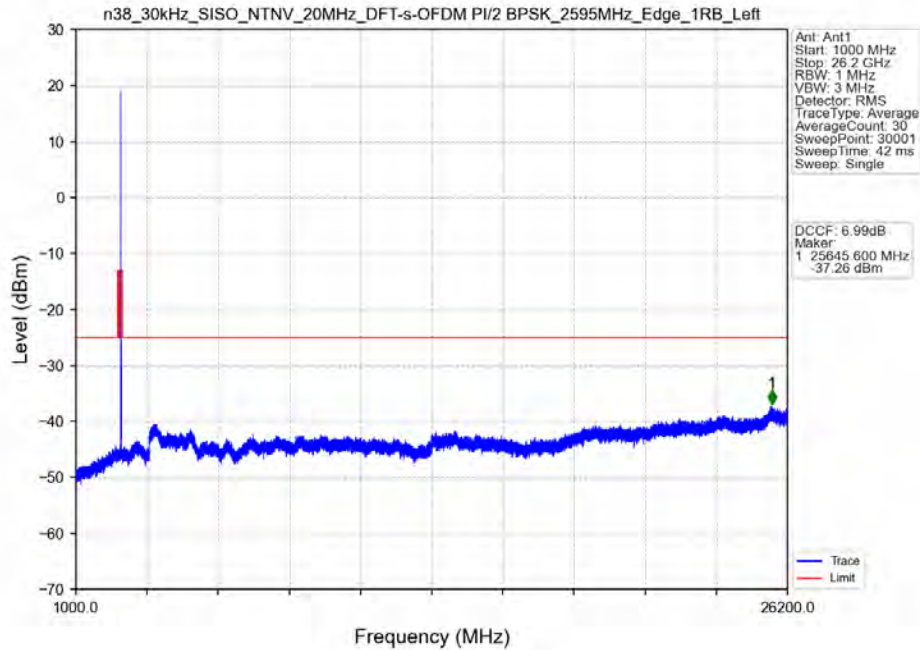
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Edge_1RB_Right



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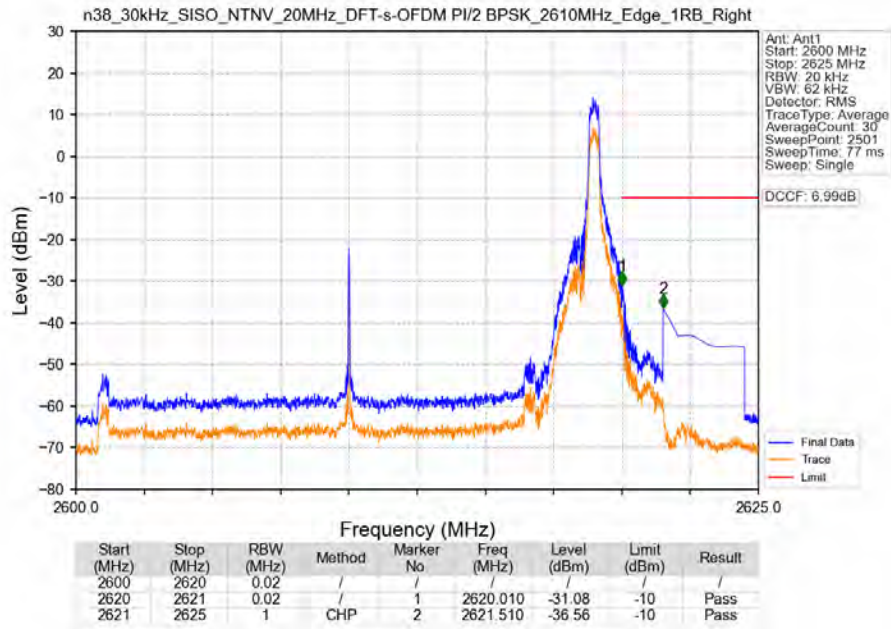


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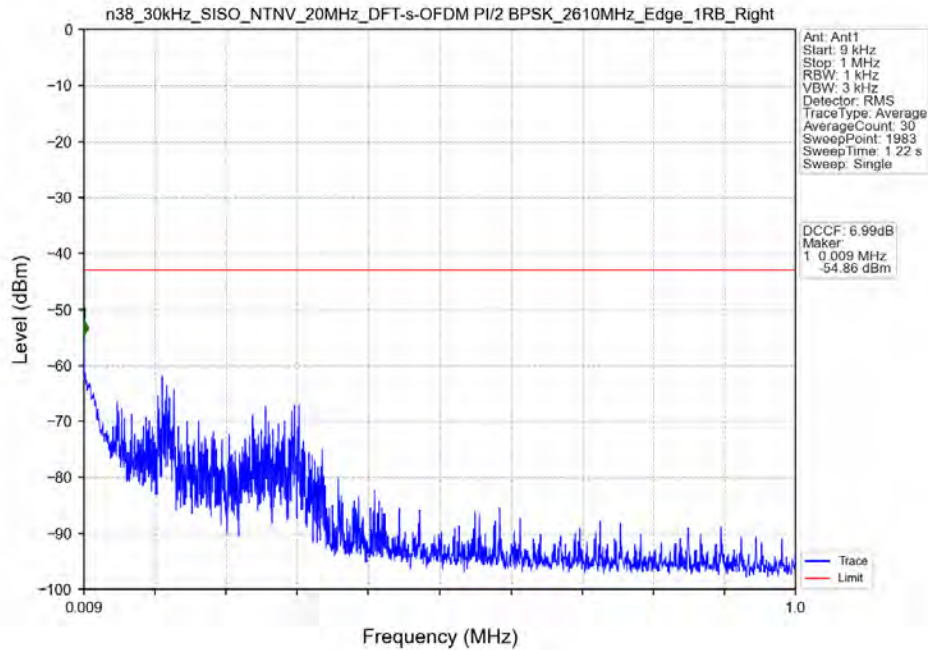
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Edge_1RB_Right



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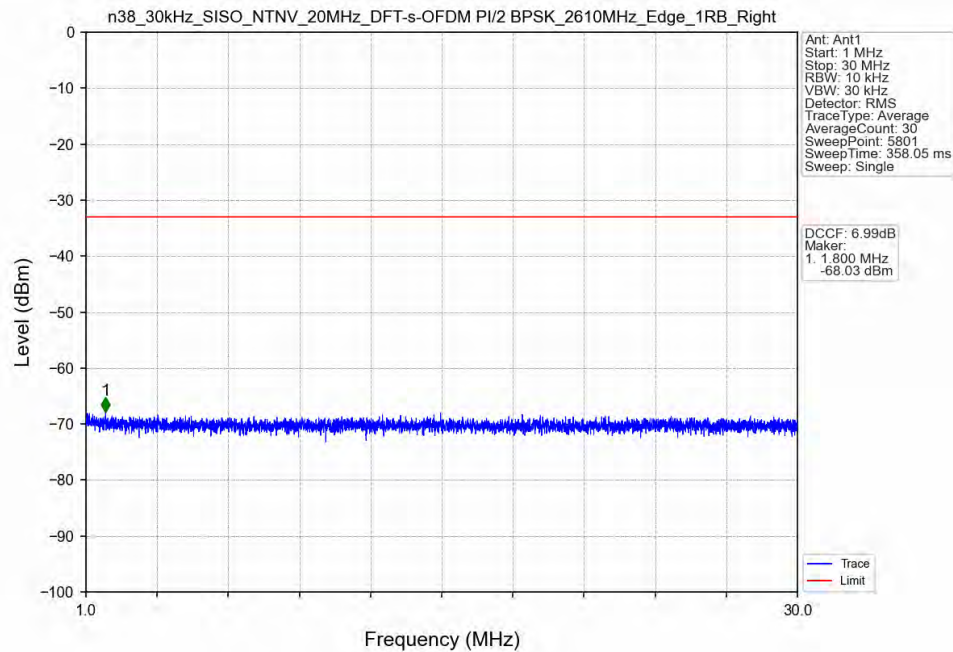


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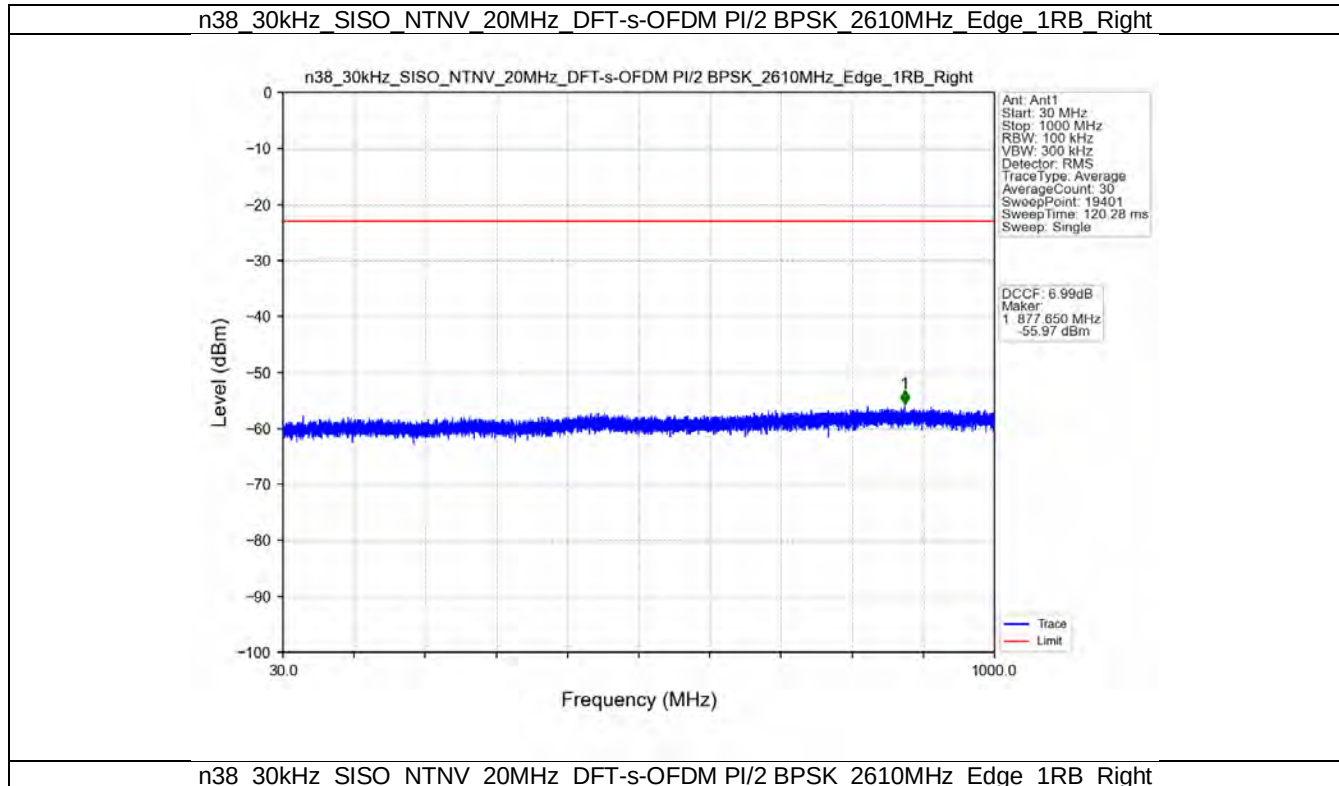


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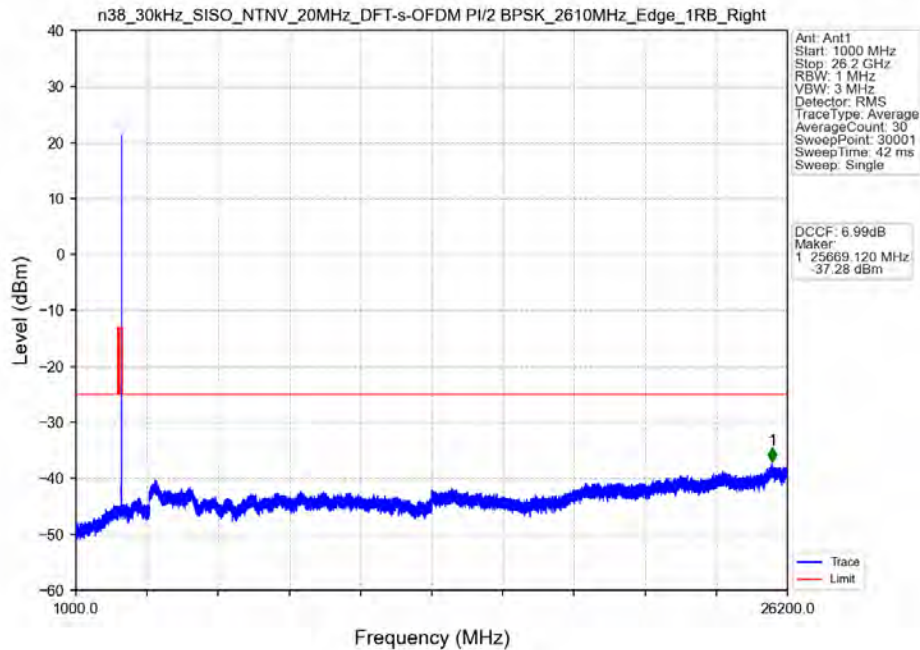


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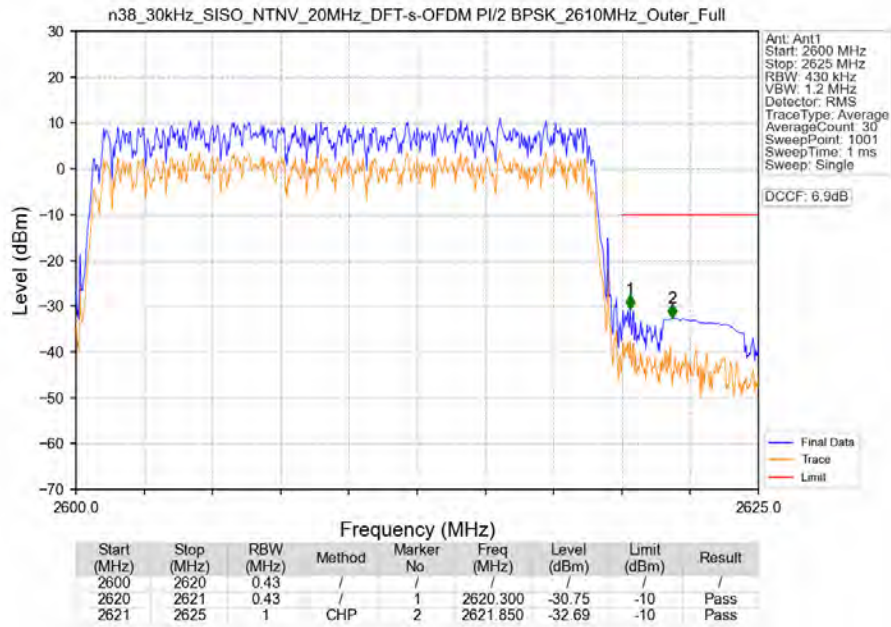
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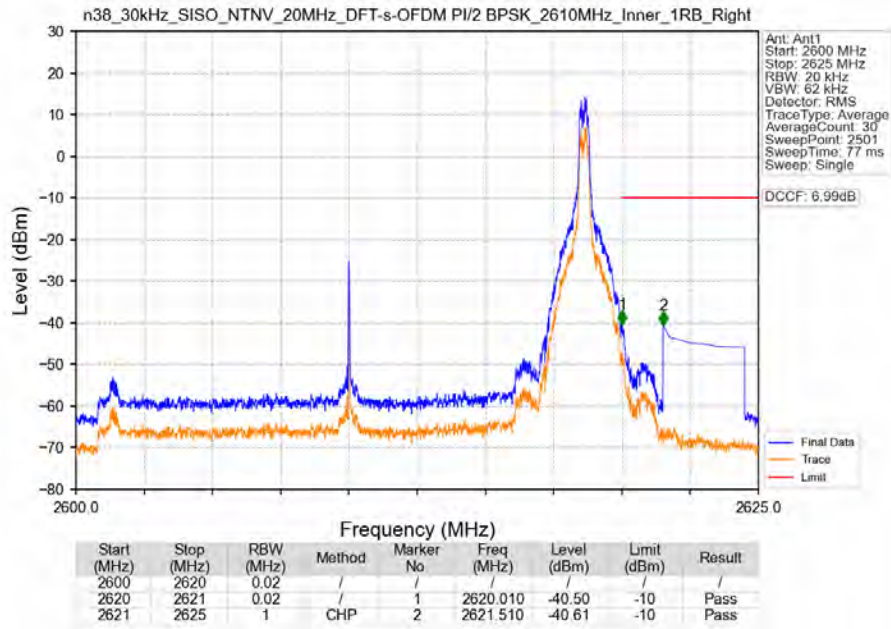


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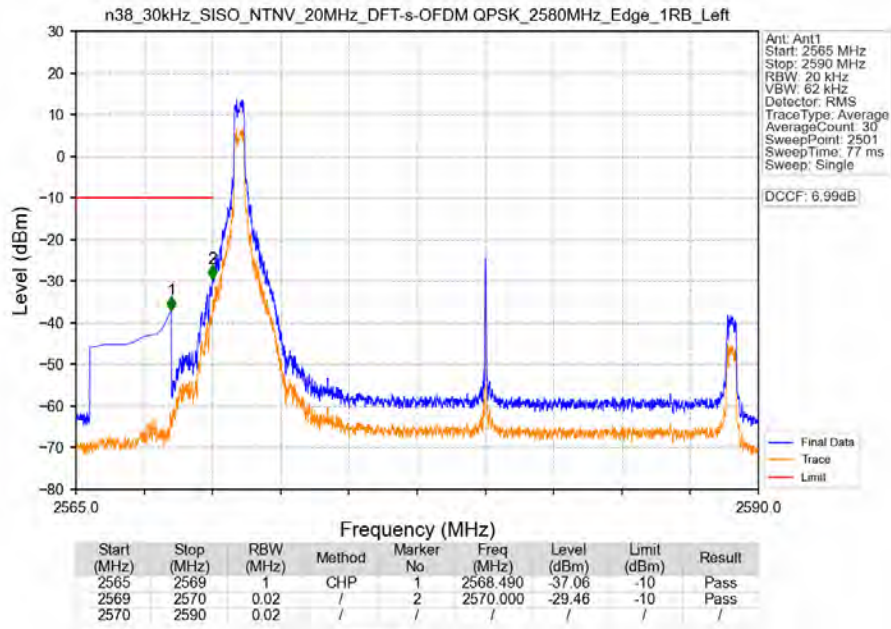
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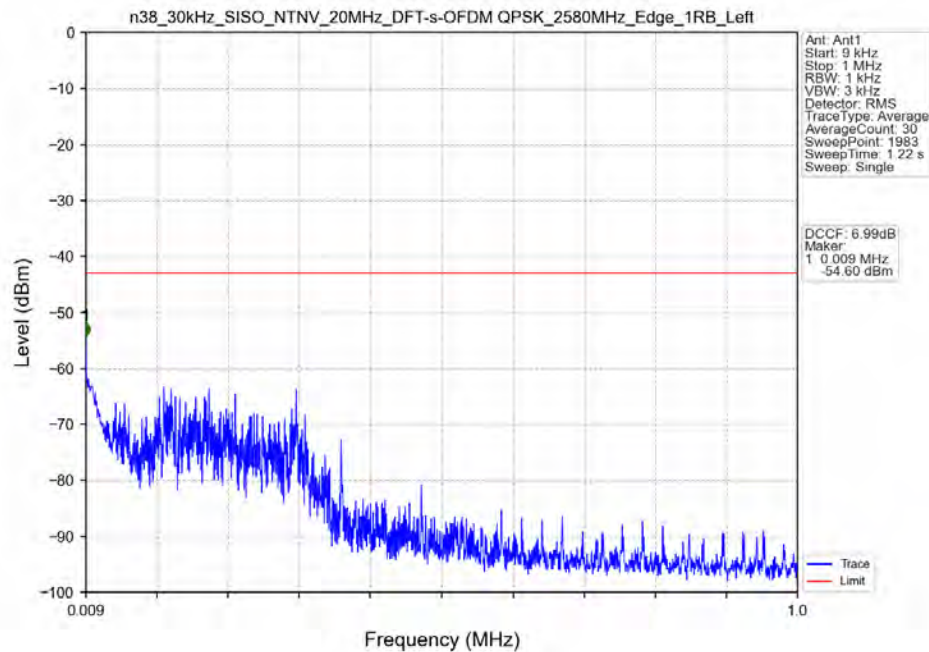


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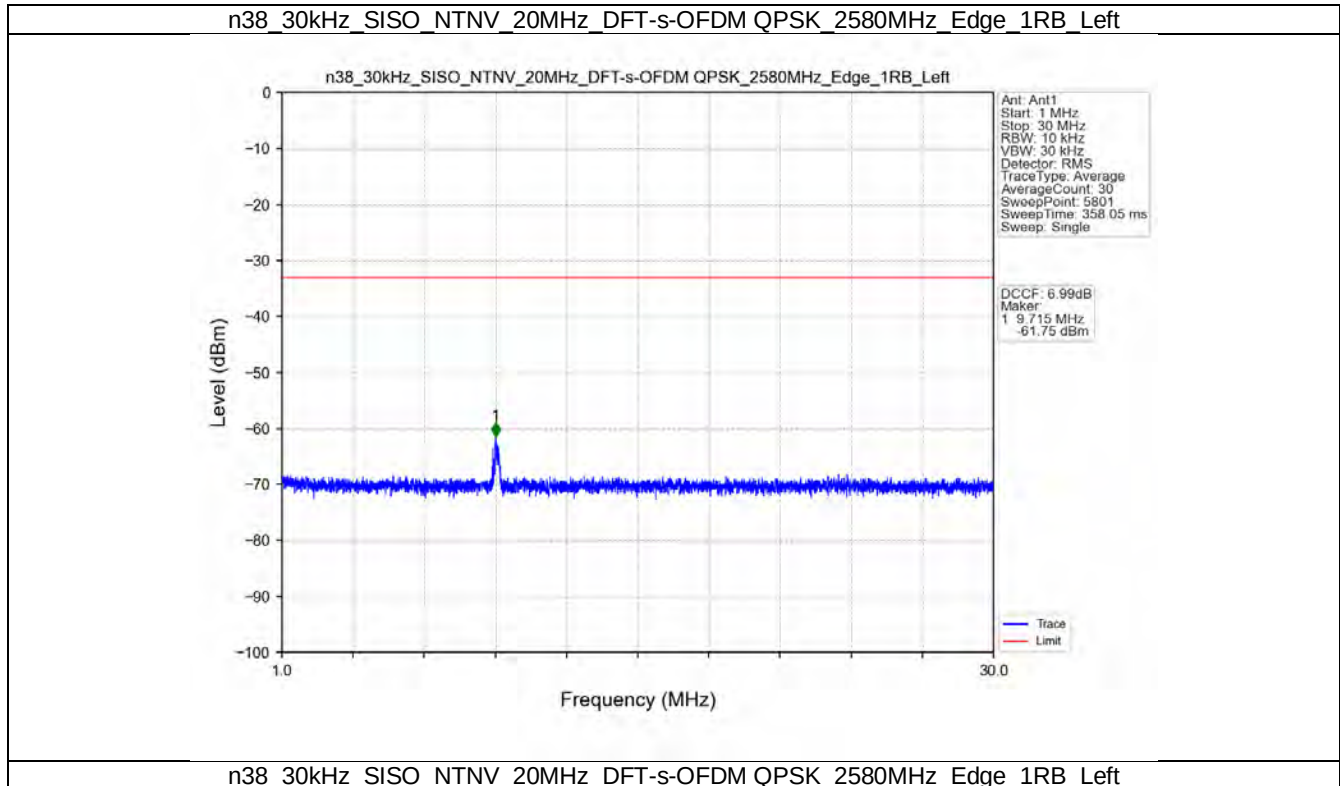


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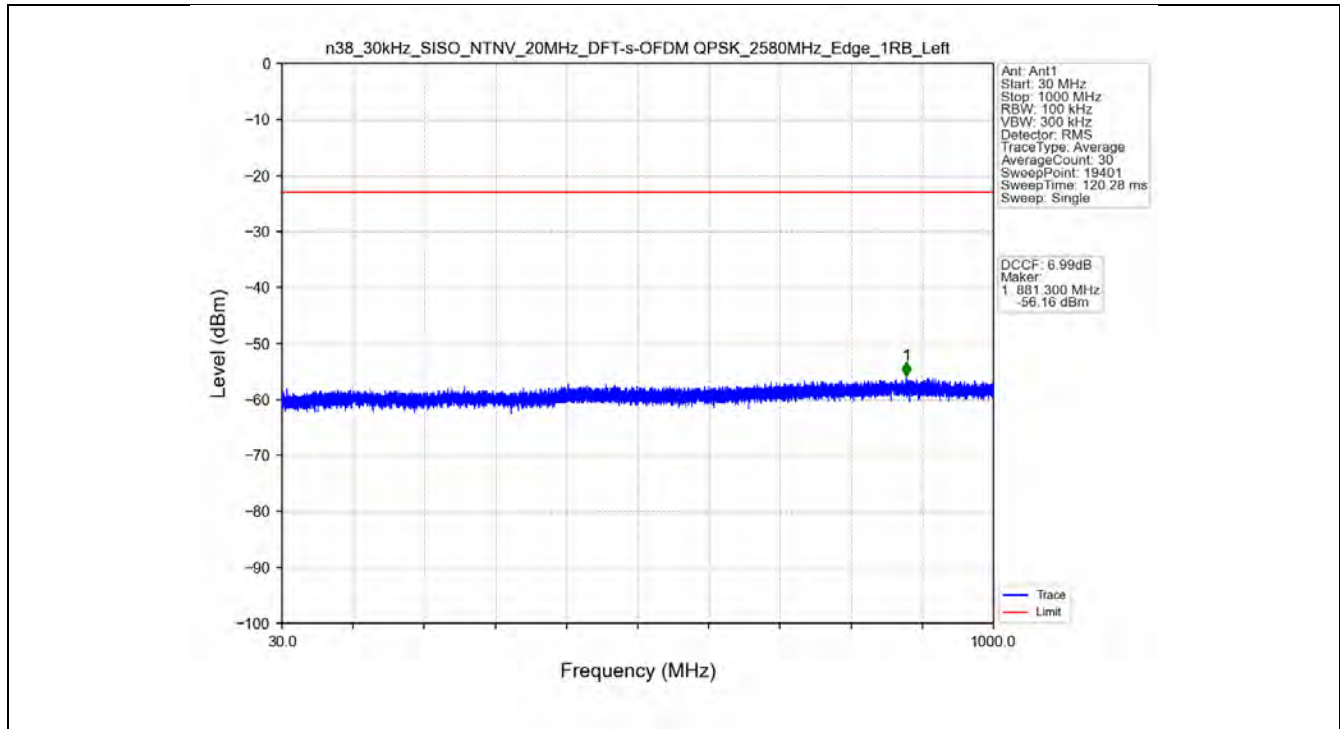


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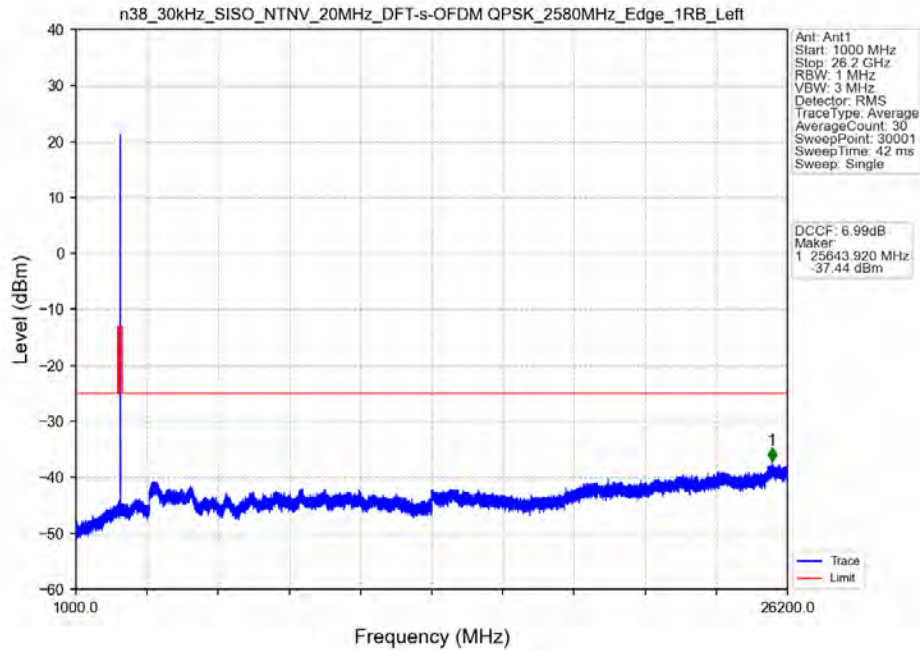
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Outer_Full



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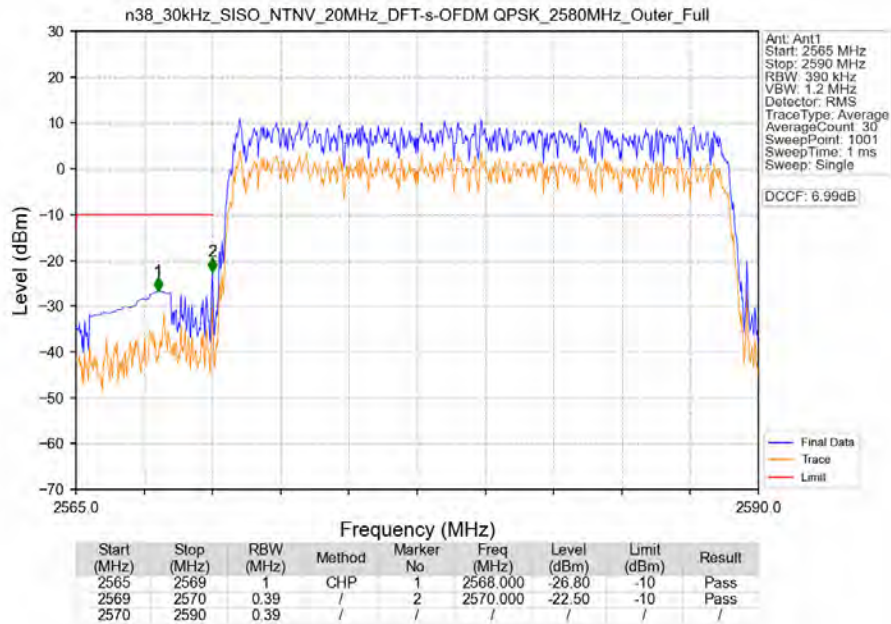


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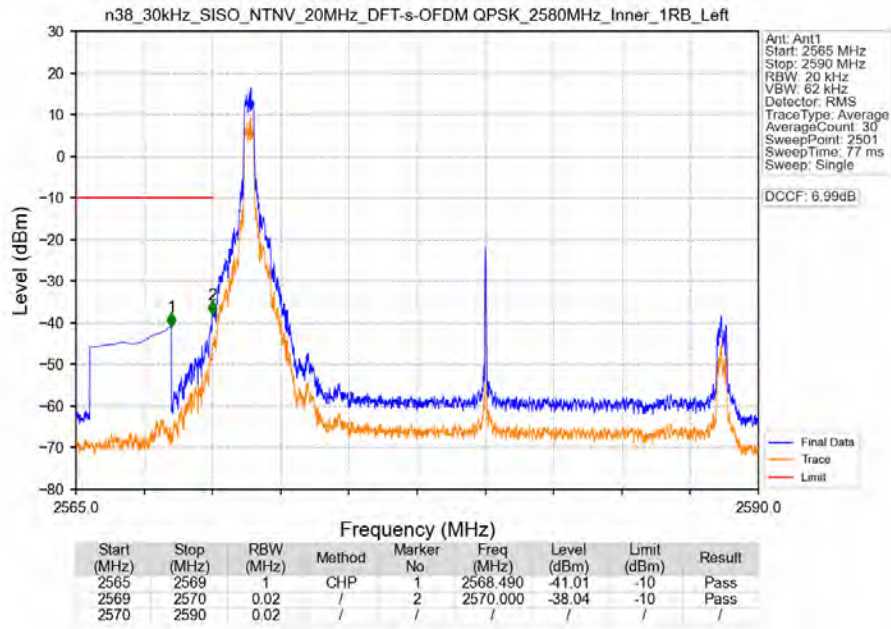
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2595MHz_Edge_1RB_Left



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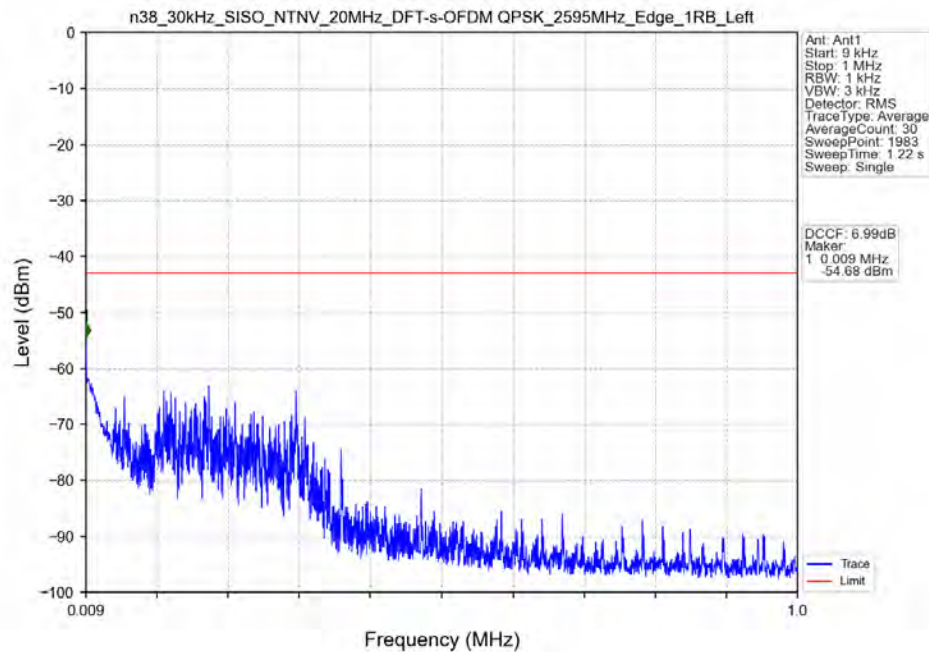


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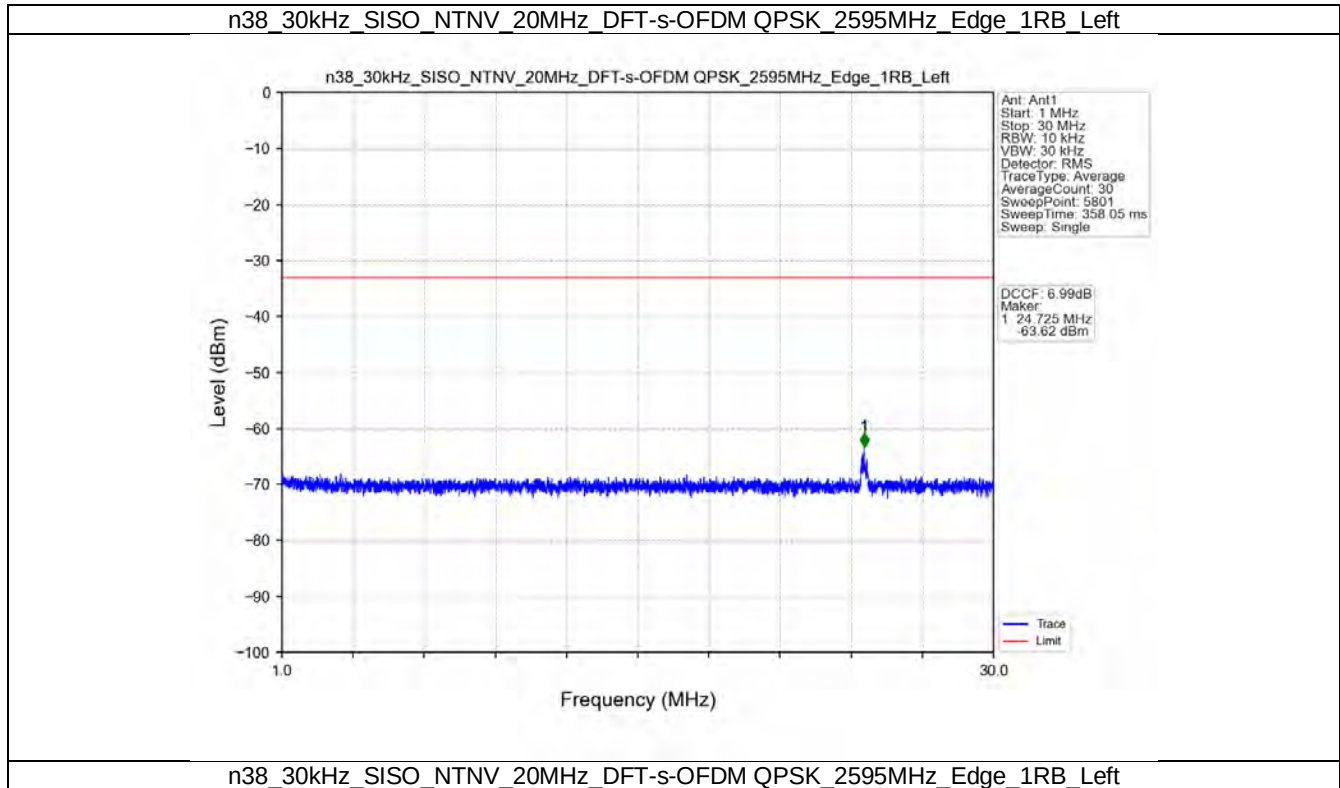


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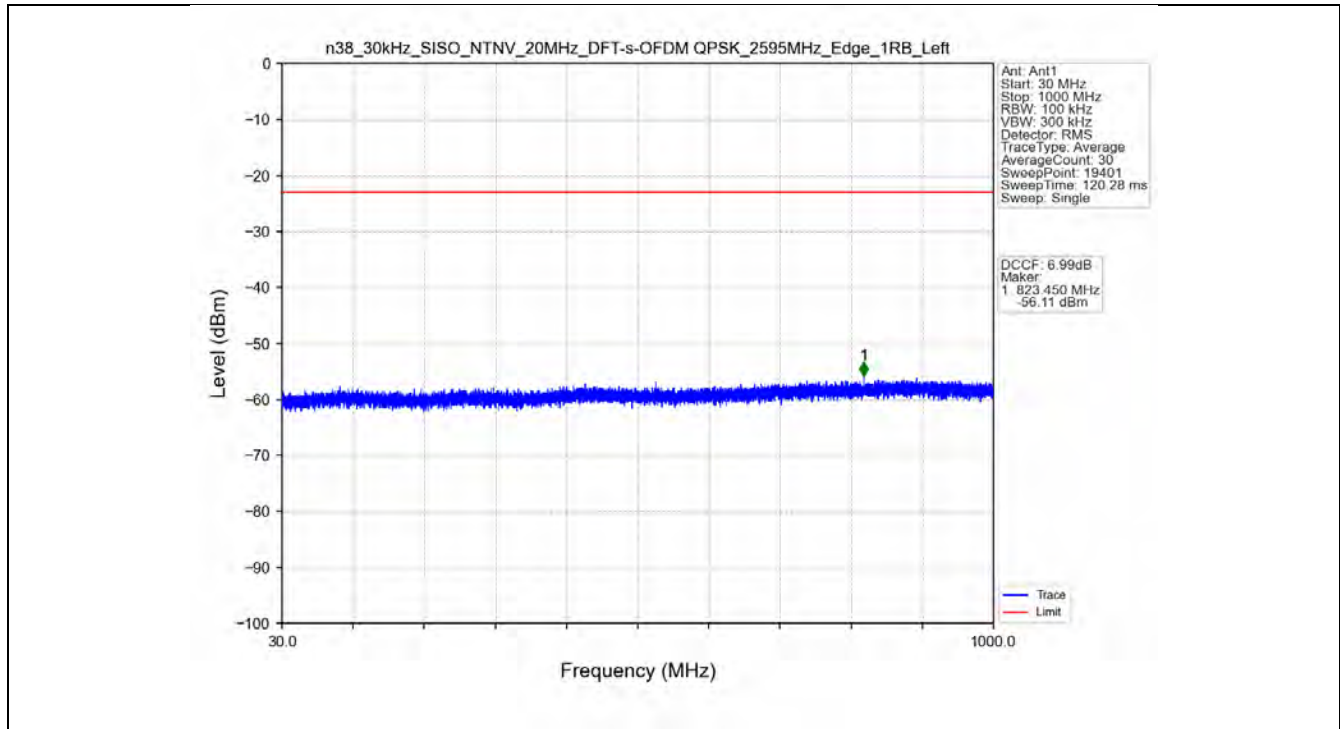


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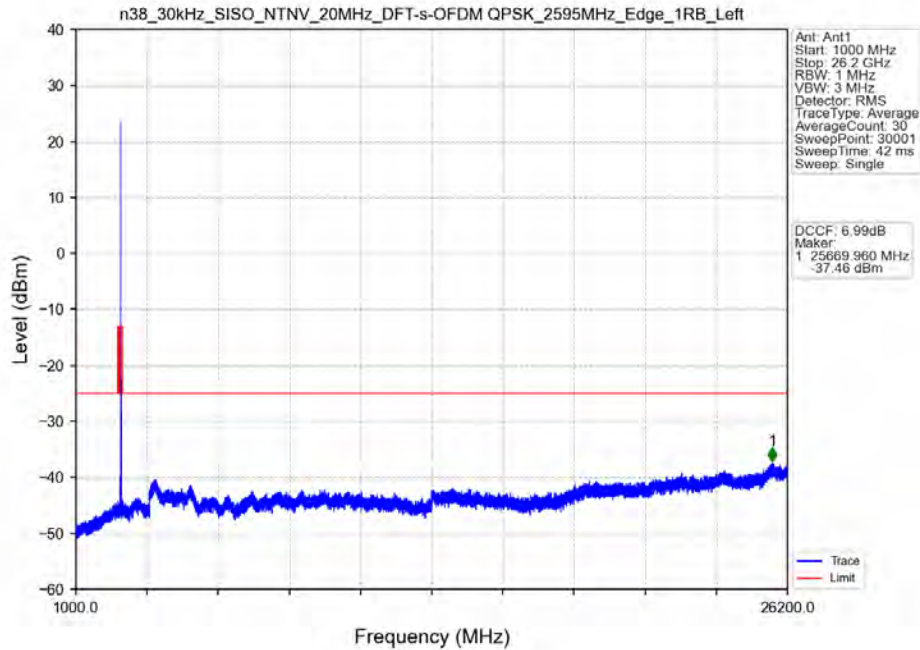
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n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2595MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2610MHz_Edge_1RB_Right



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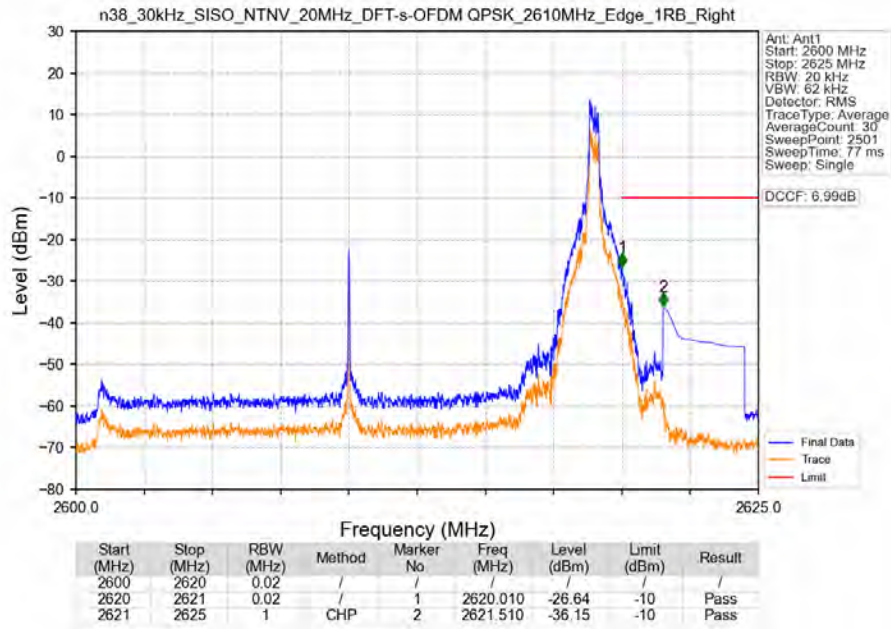


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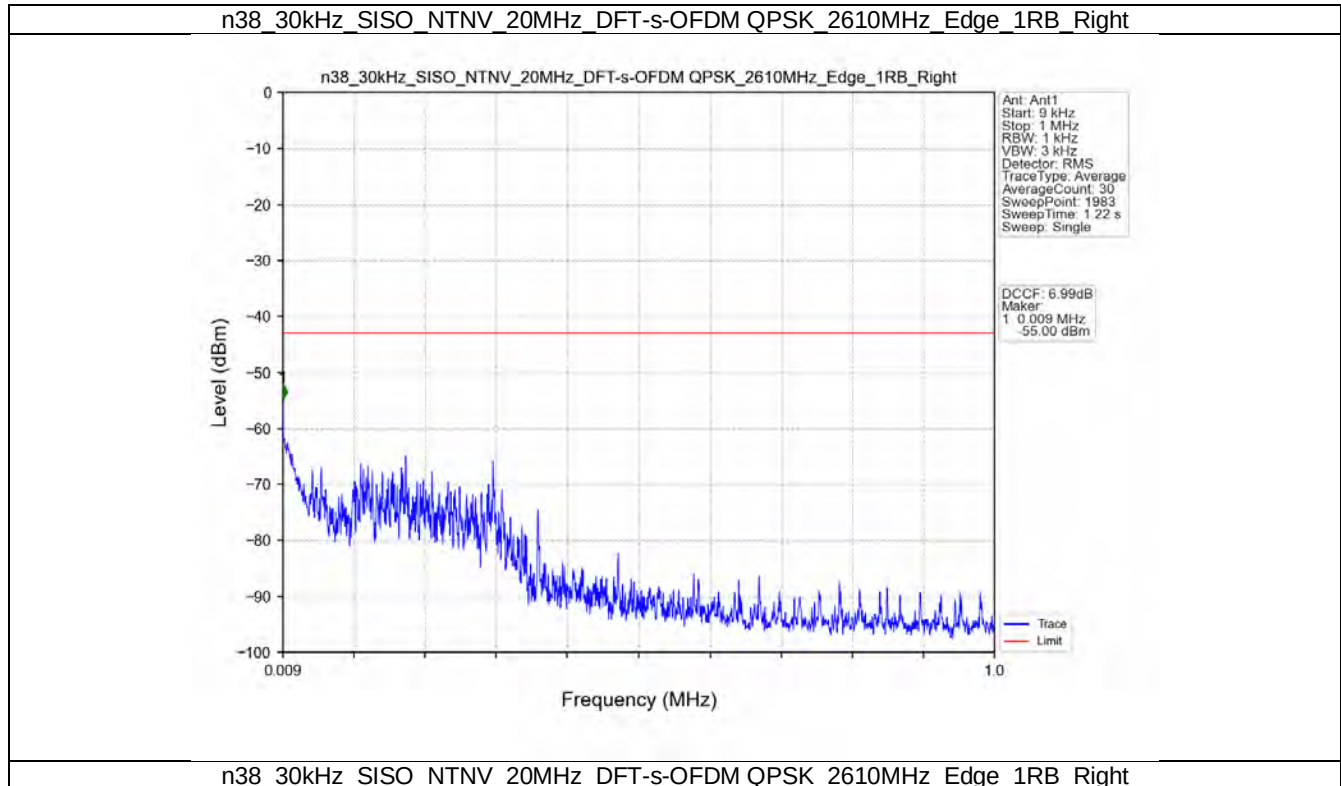


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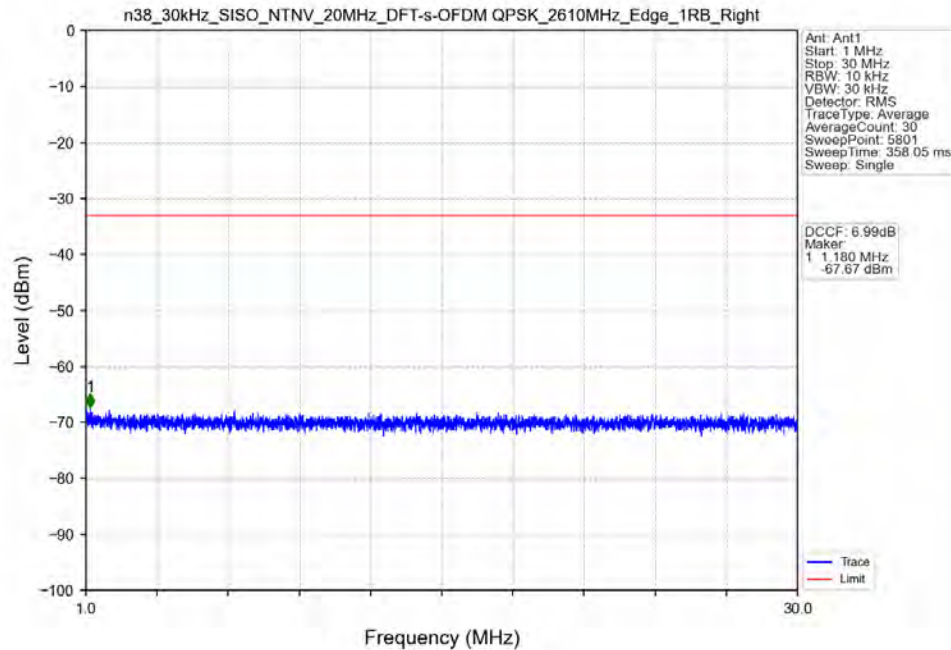


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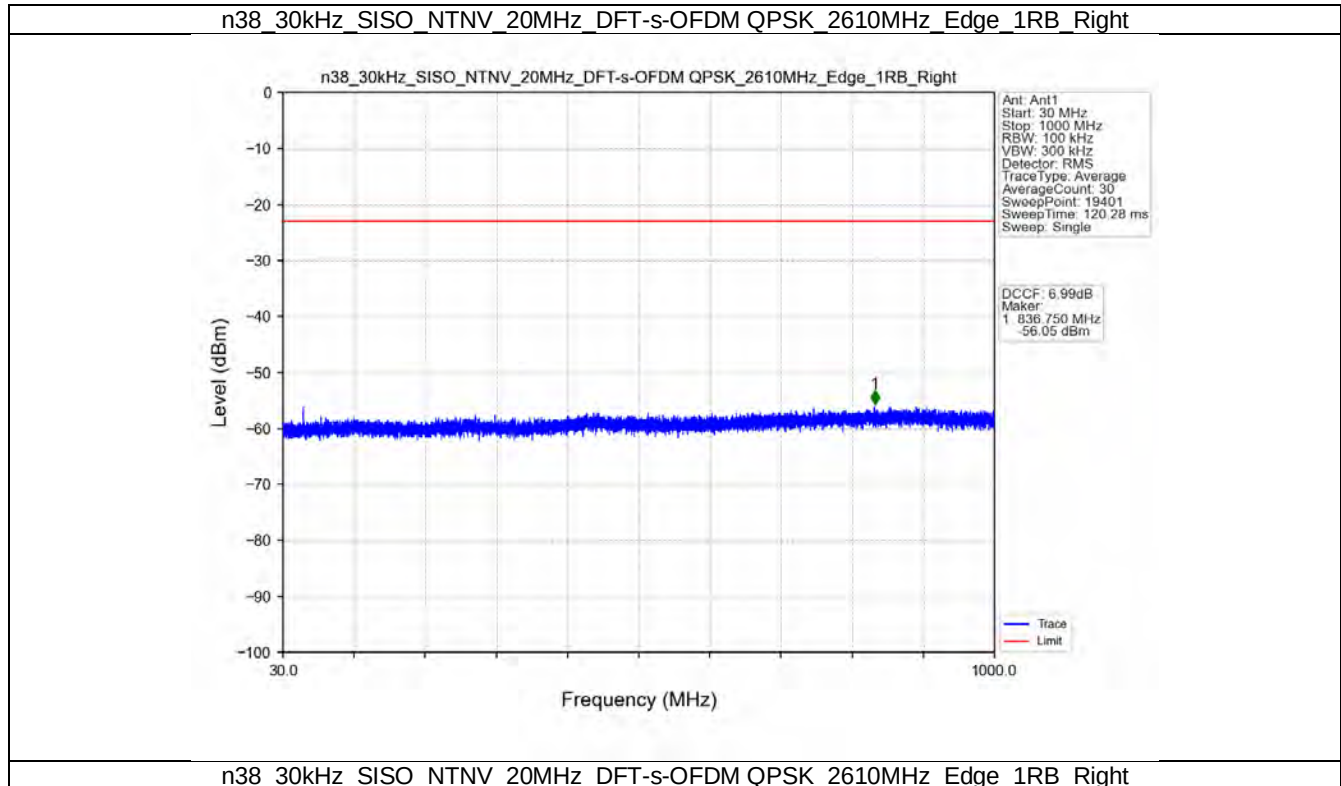


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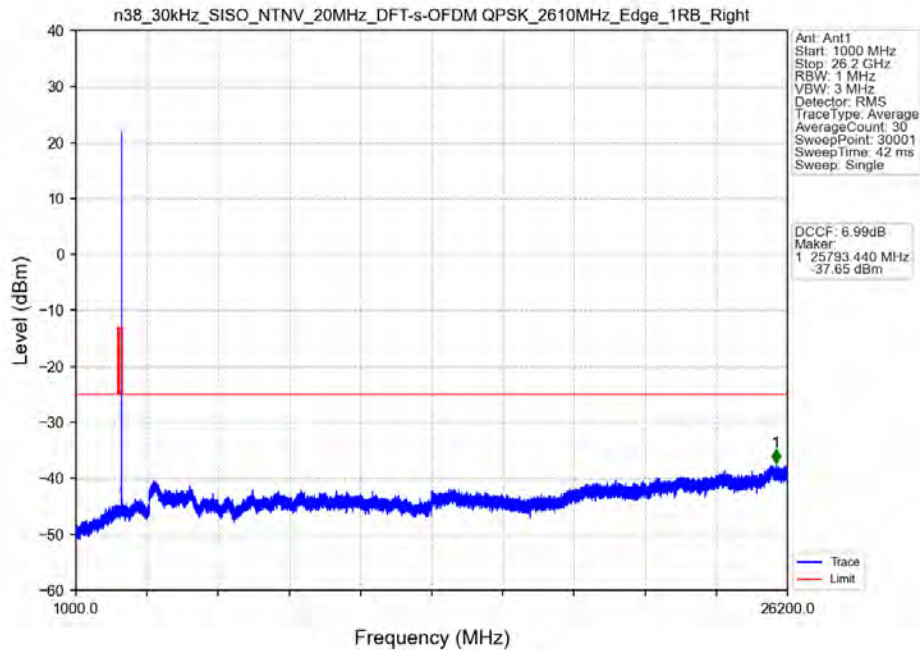


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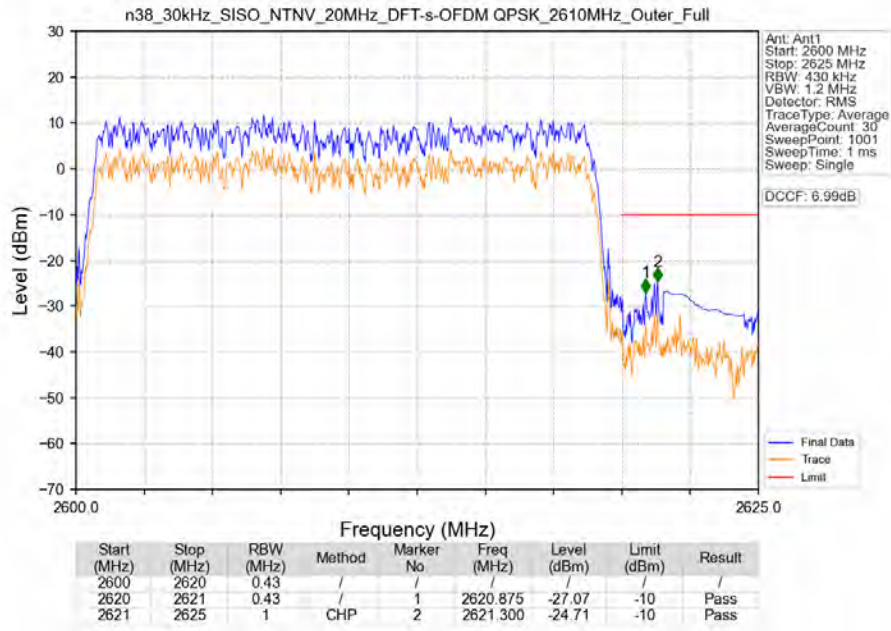
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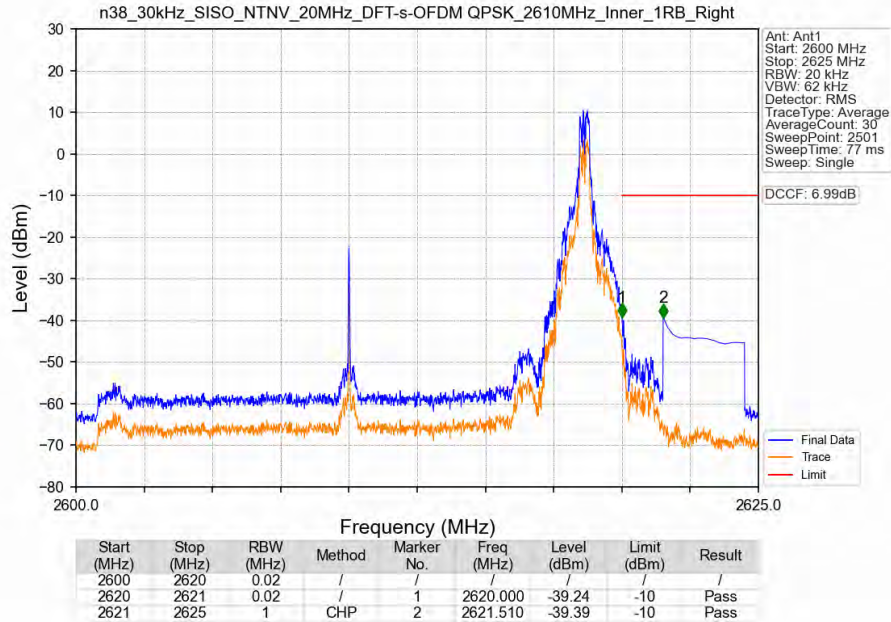


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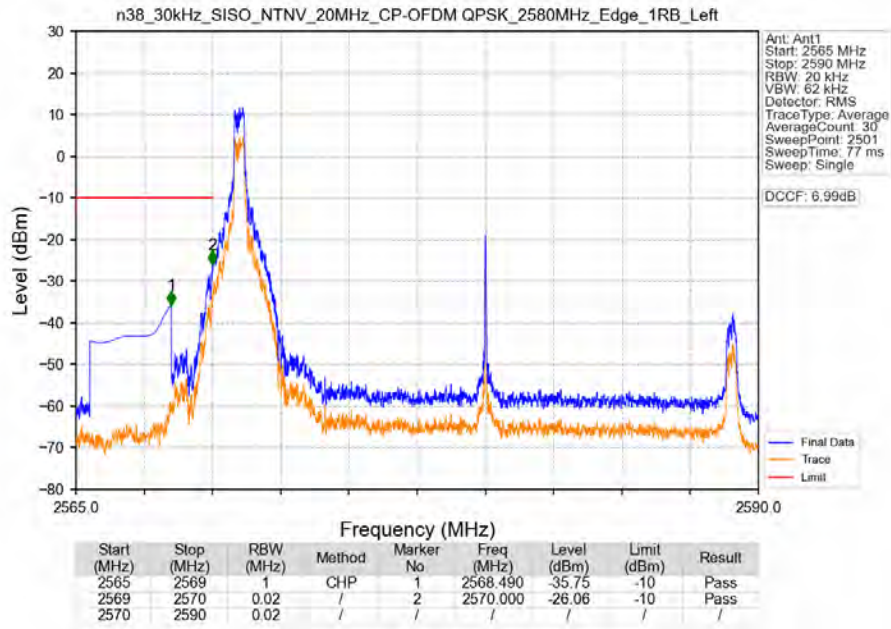
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2580MHz_Edge_1RB_Left



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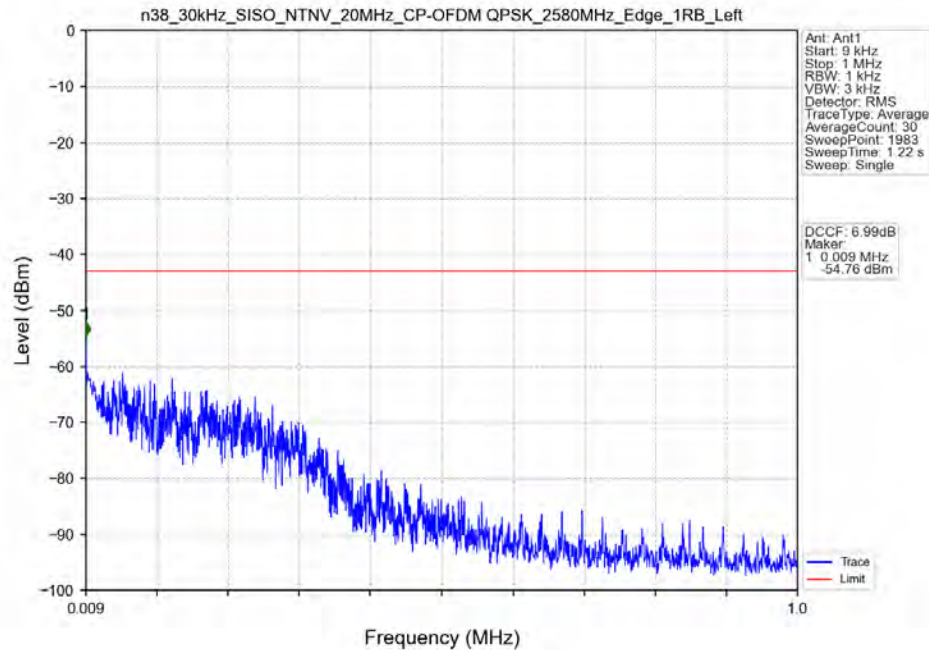


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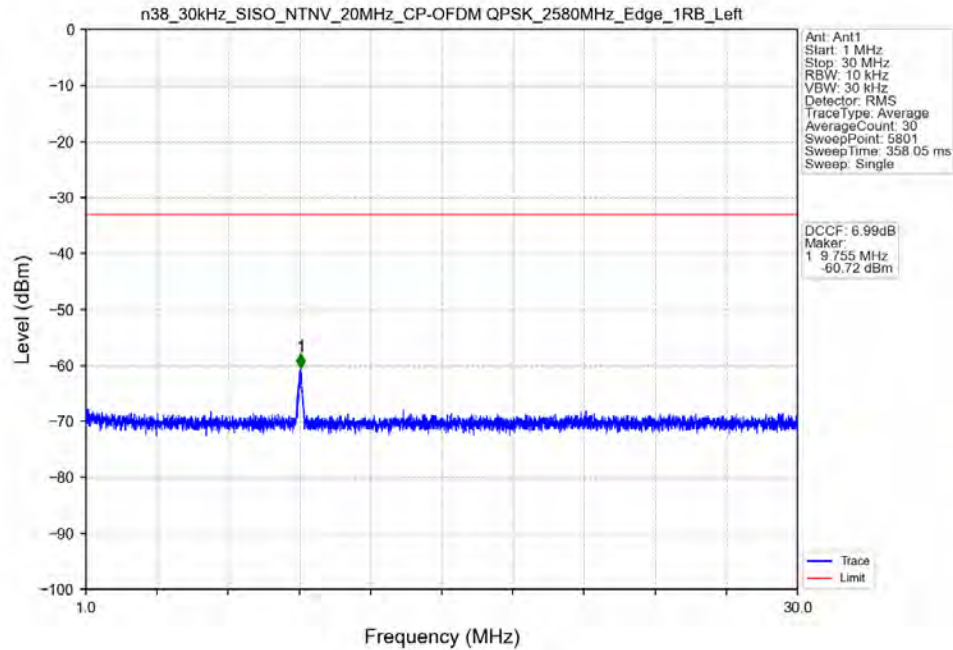
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2580MHz_Edge_1RB_Left



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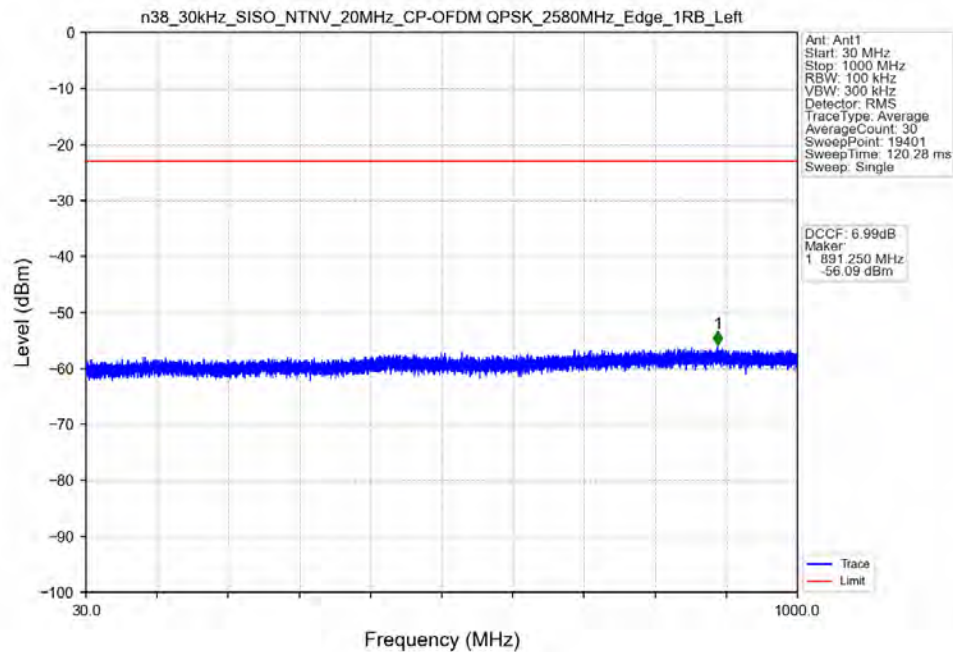


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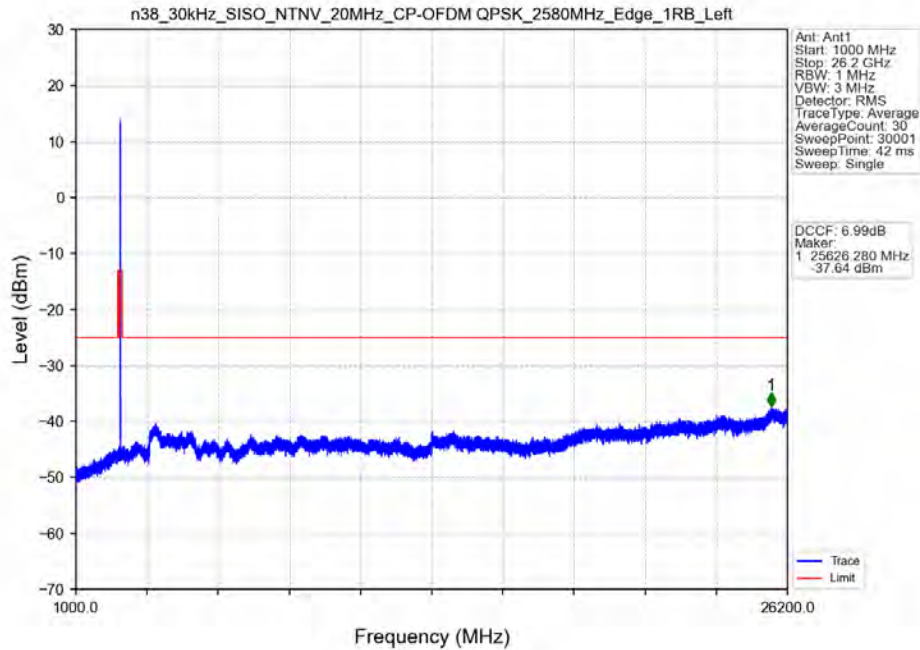
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2580MHz_Outer_Full



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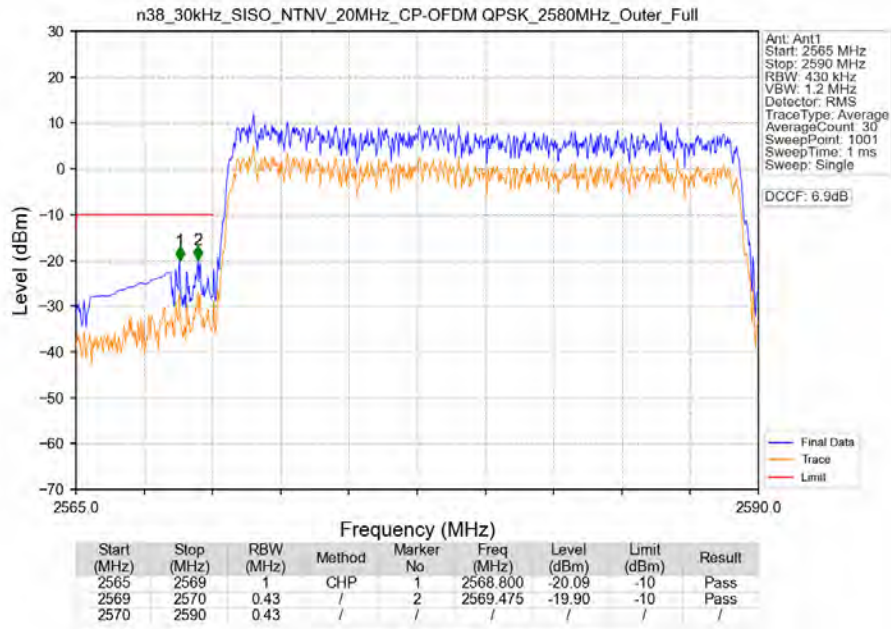


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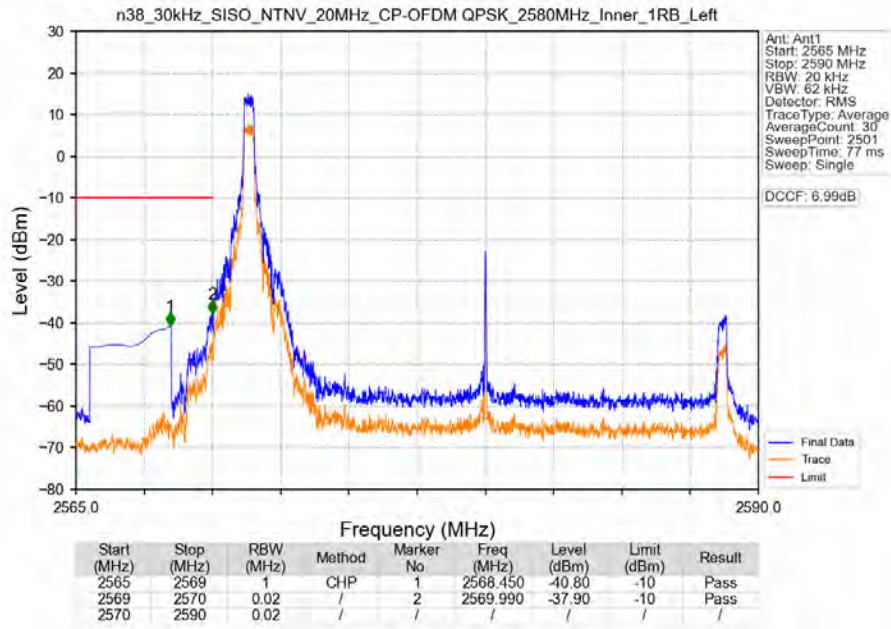
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2595MHz_Edge_1RB_Left



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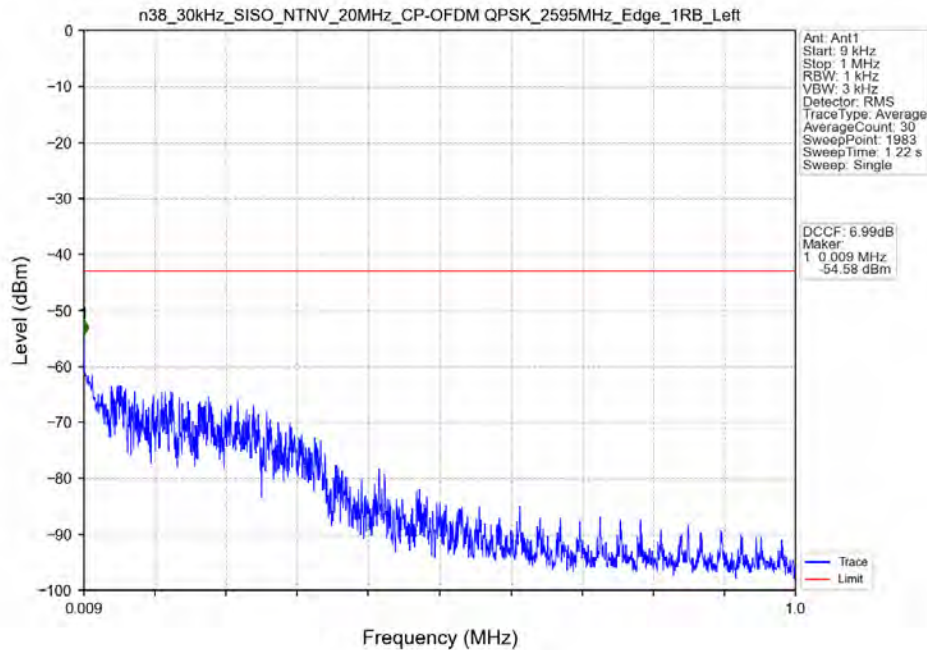


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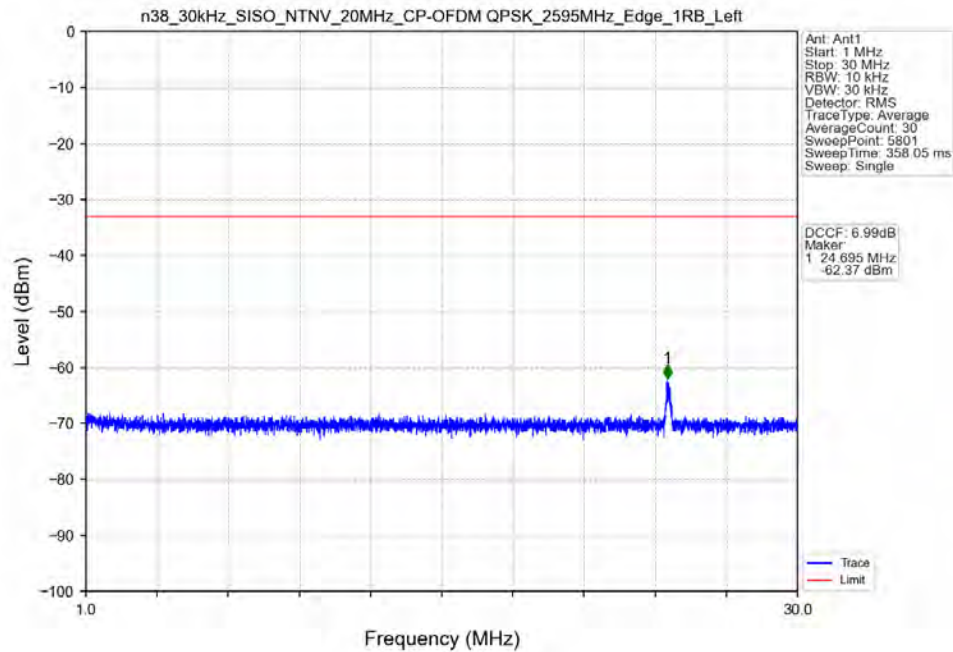
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2595MHz_Edge_1RB_Left



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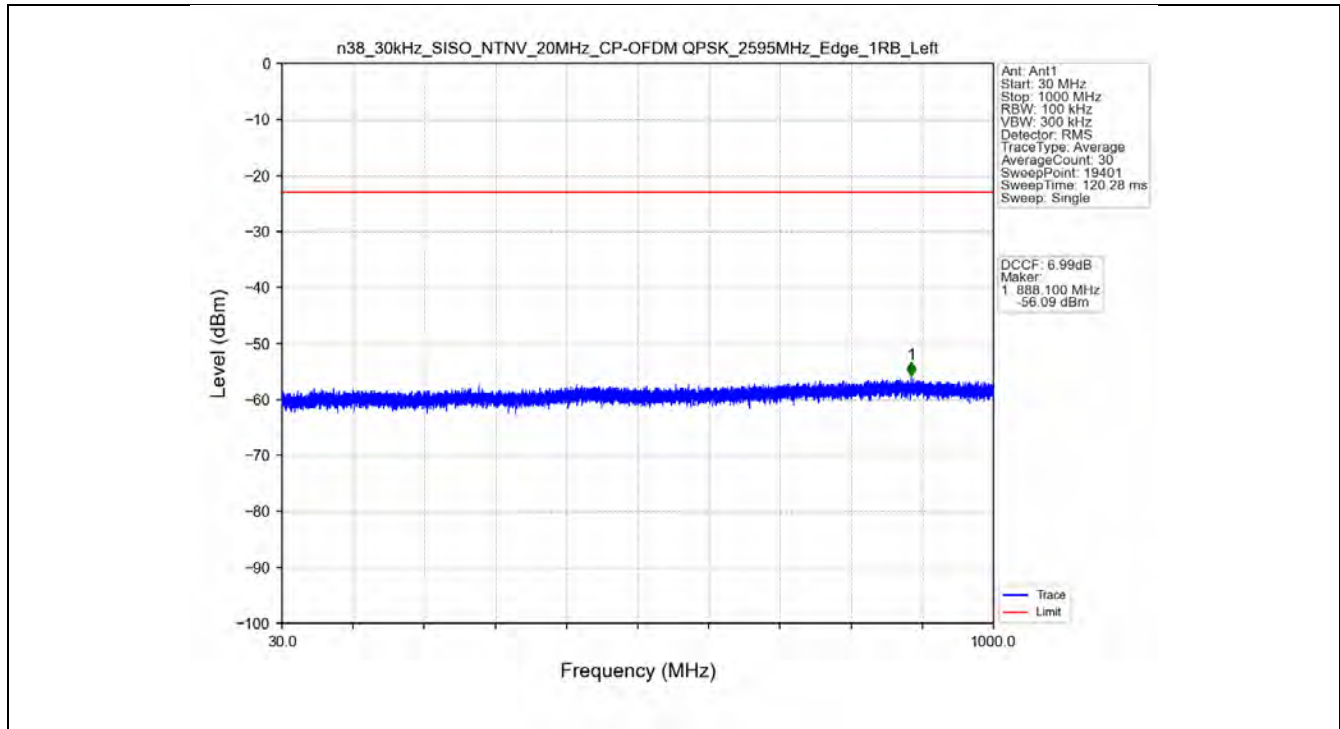


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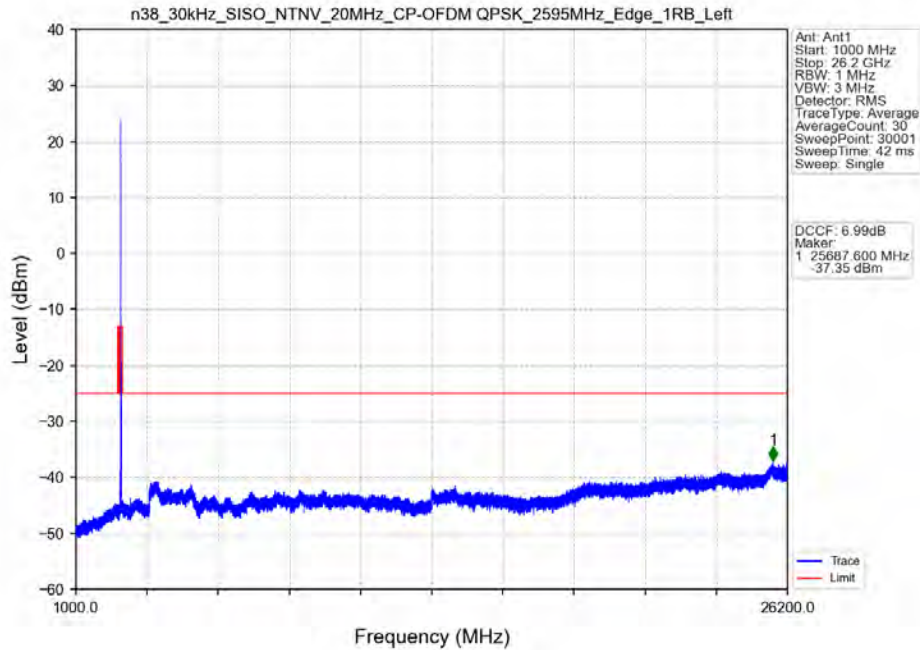
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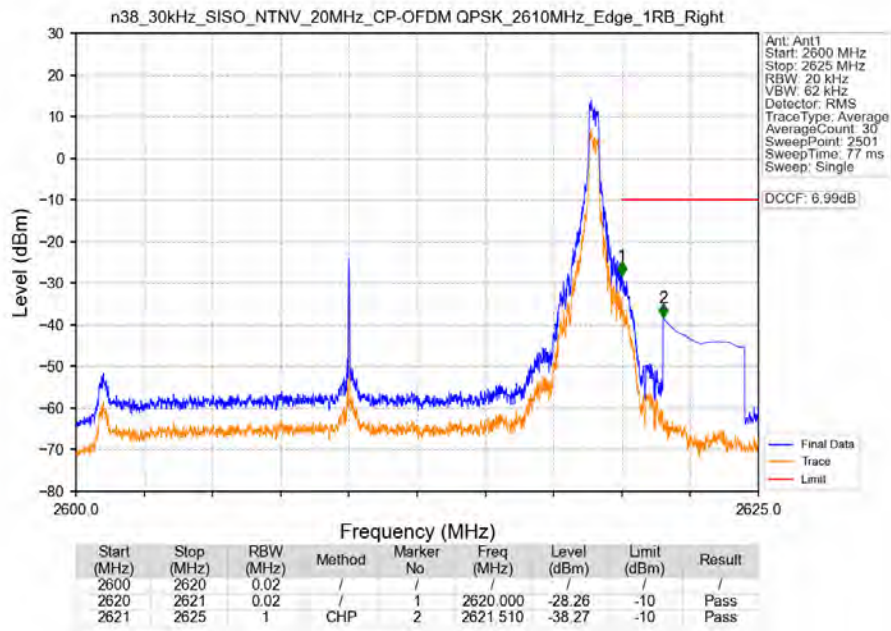


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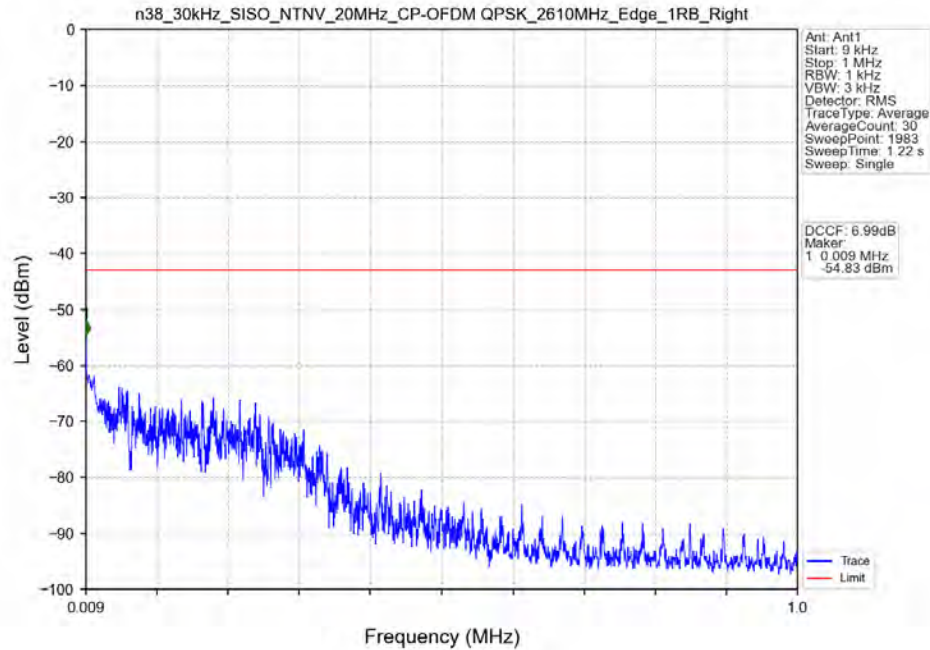
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2610MHz_Edge_1RB_Right



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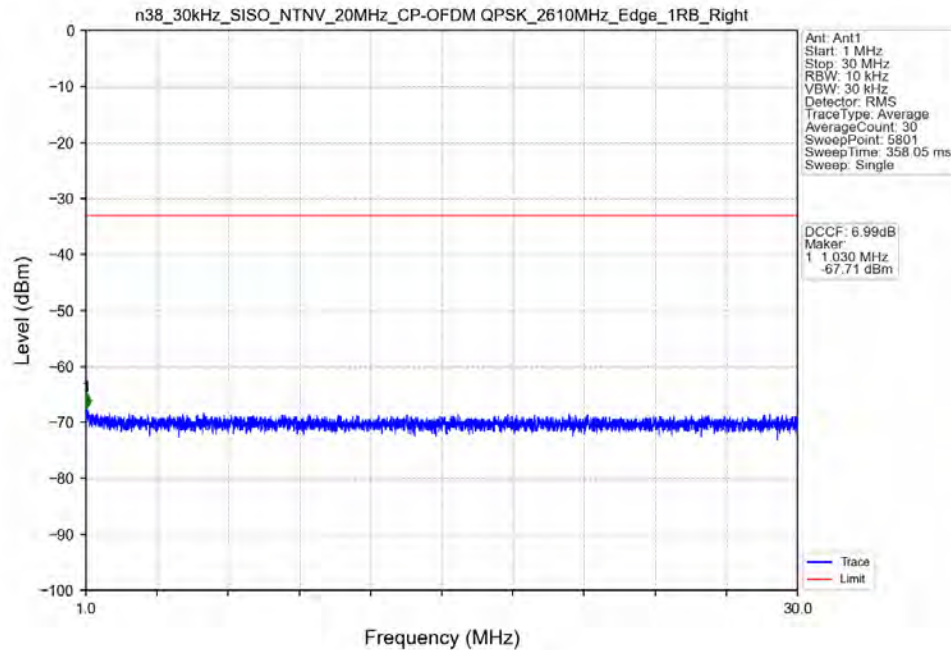


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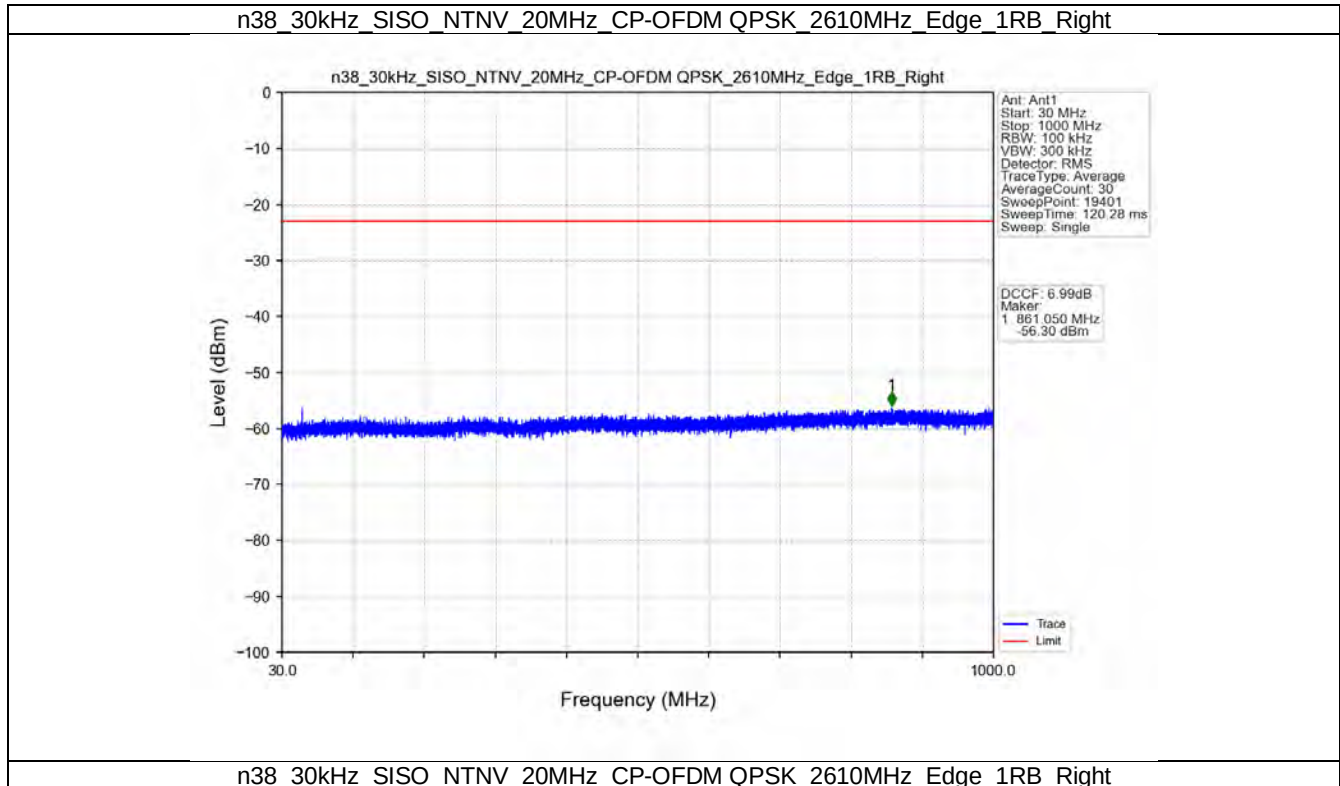


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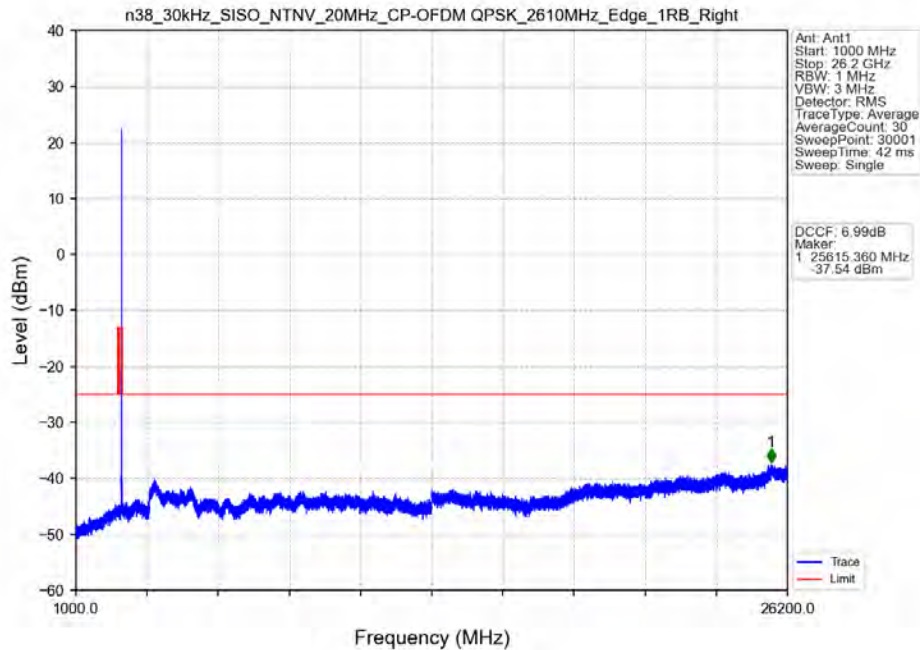


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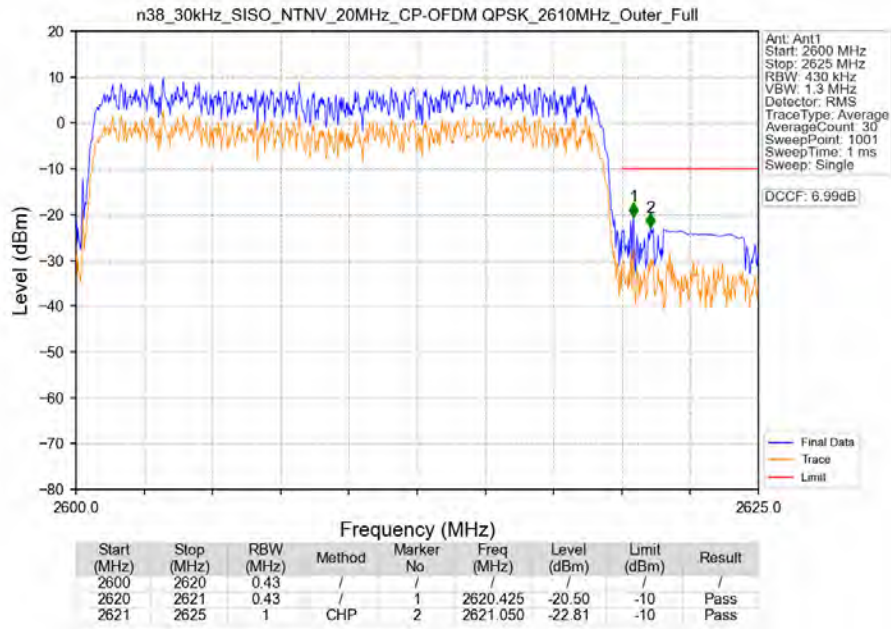
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n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2610MHz_Outer_Full



n38_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2610MHz_Inner_1RB_Right



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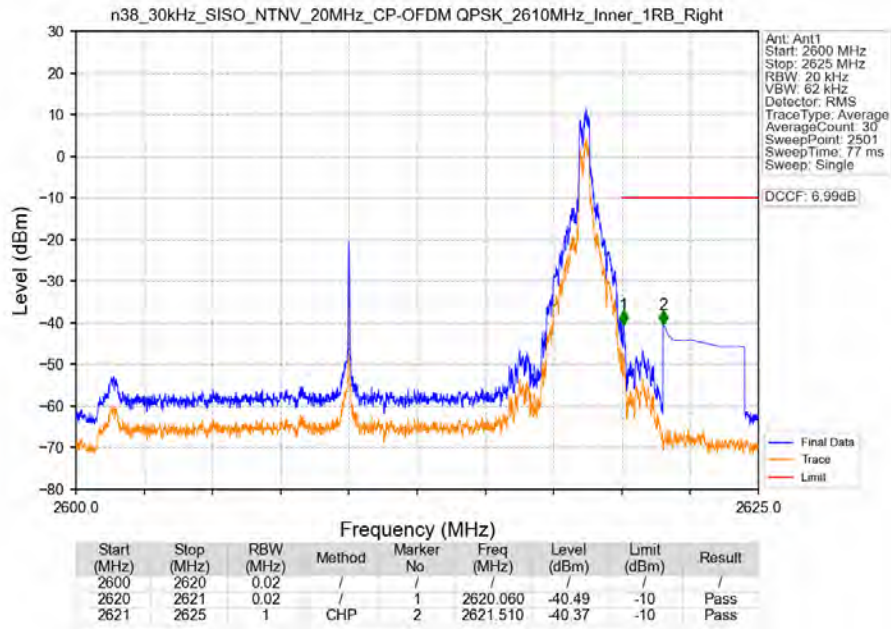


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5.2 30k_SISO_30MHz_NTNV

5.2.1 Test Result

5G NR n38 SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2585	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	2595	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	2585	Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	2595	Inner_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	2605	Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass
	2585	Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass



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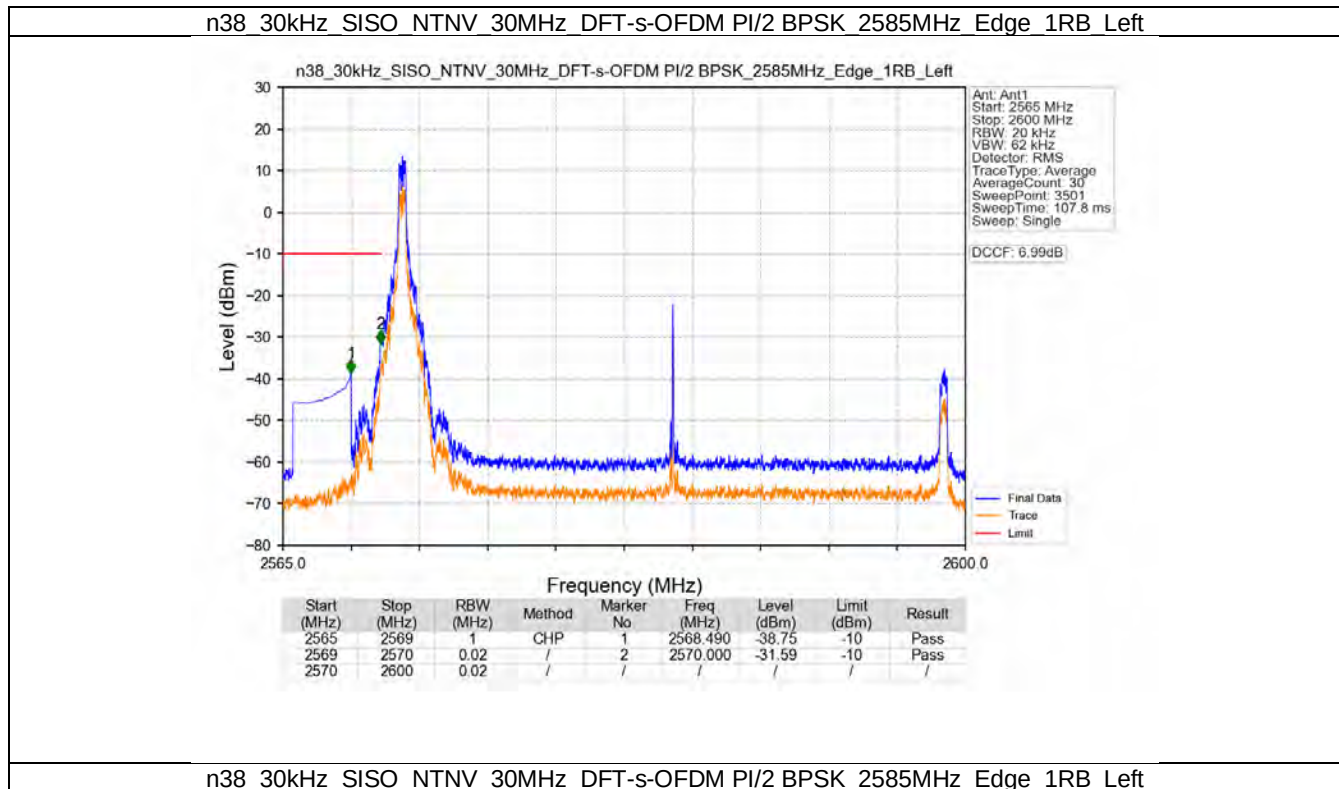
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5.2.2 Test Graph



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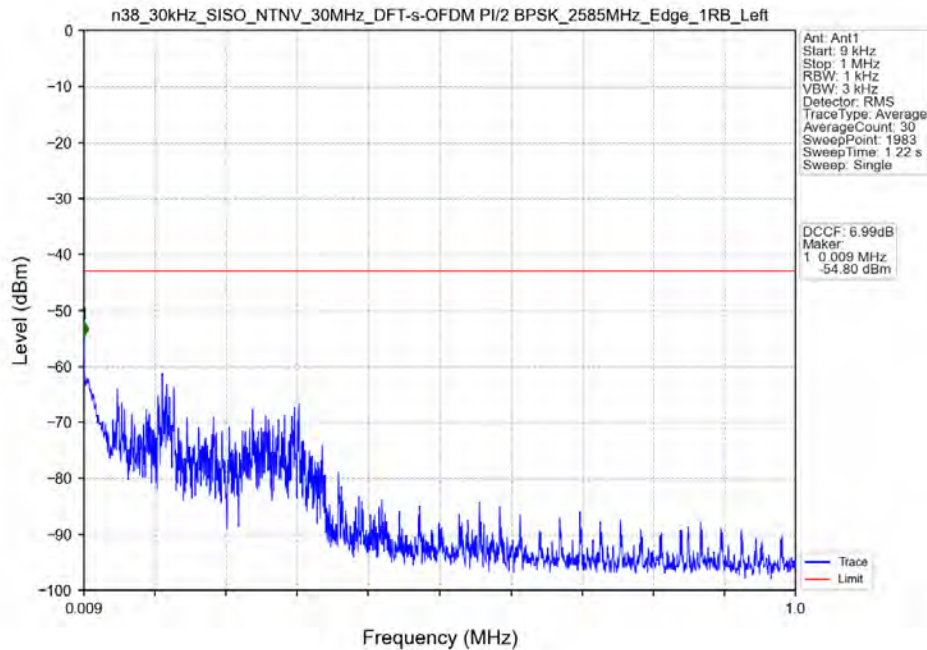


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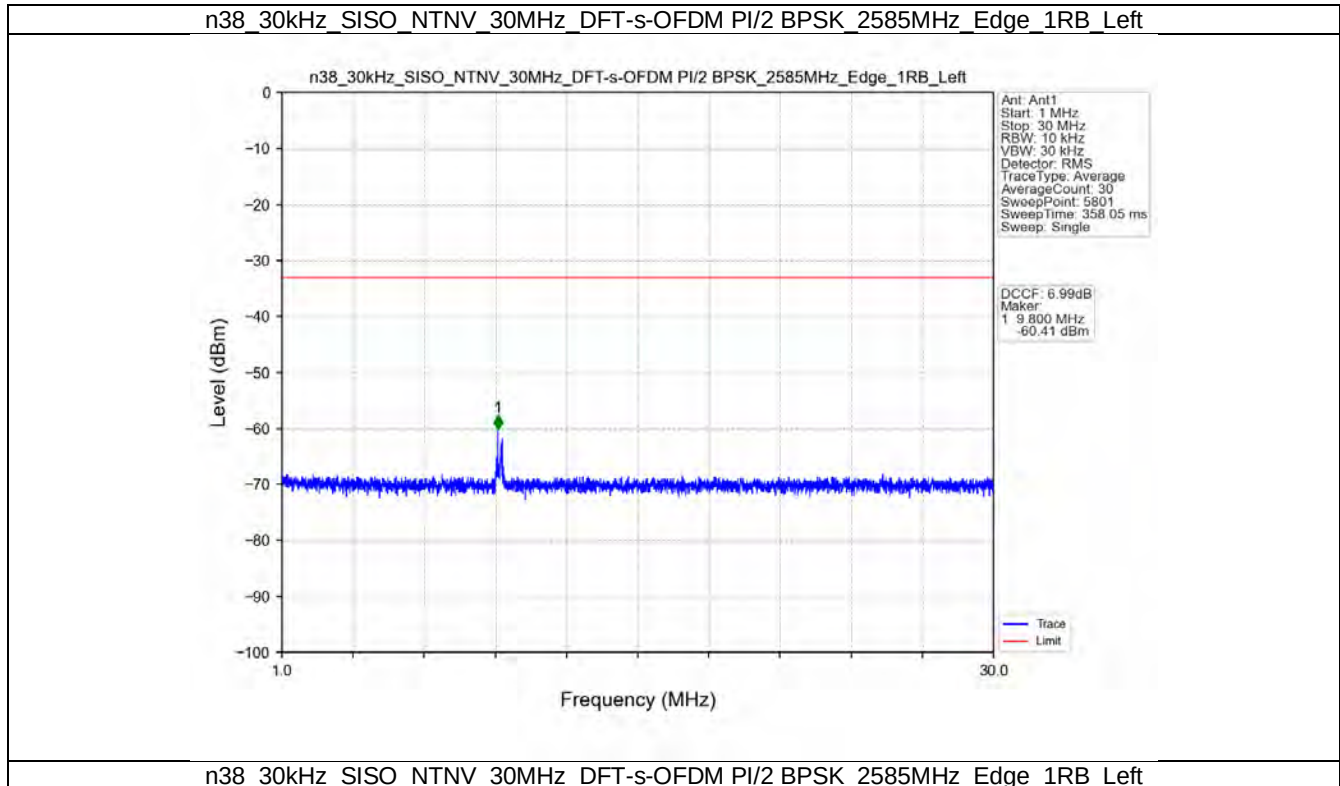


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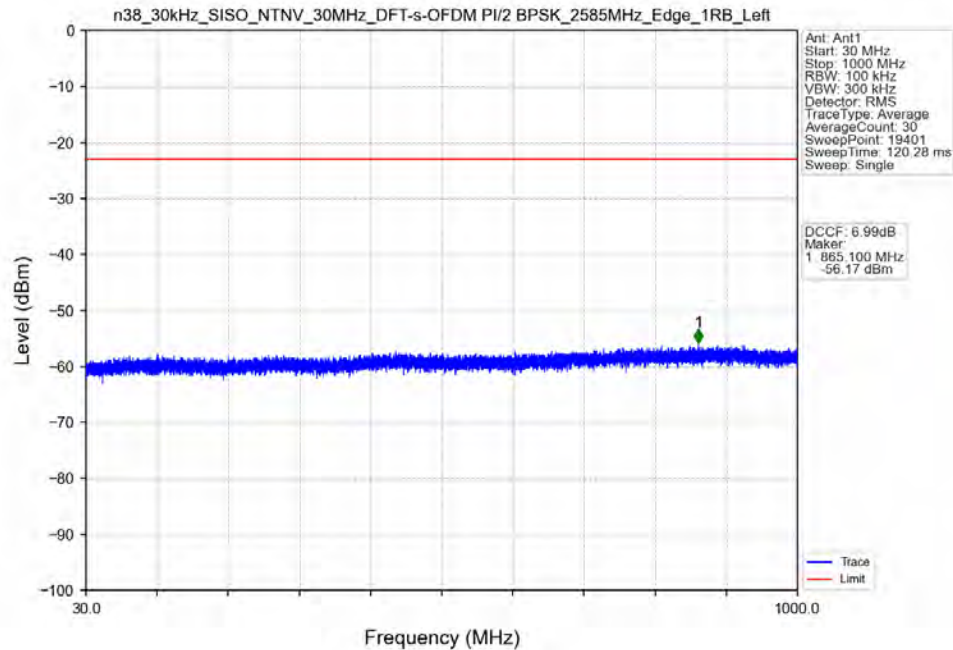


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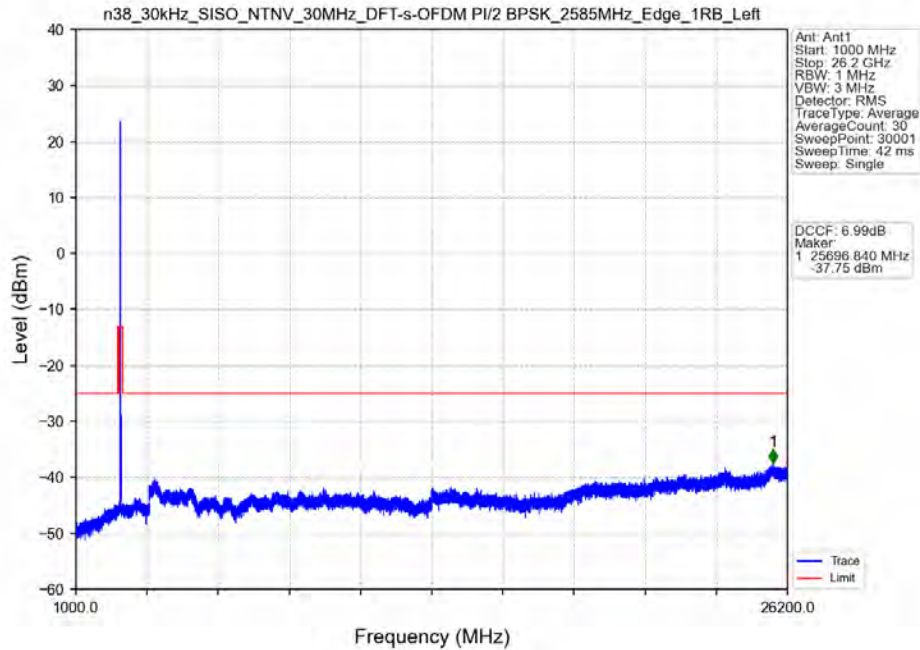
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2585MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2585MHz_Outer_Full



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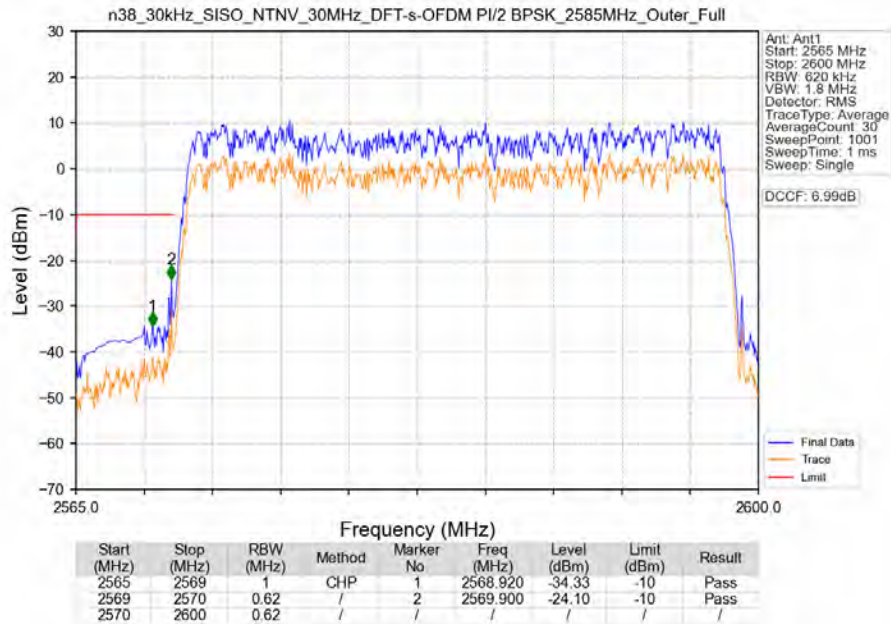


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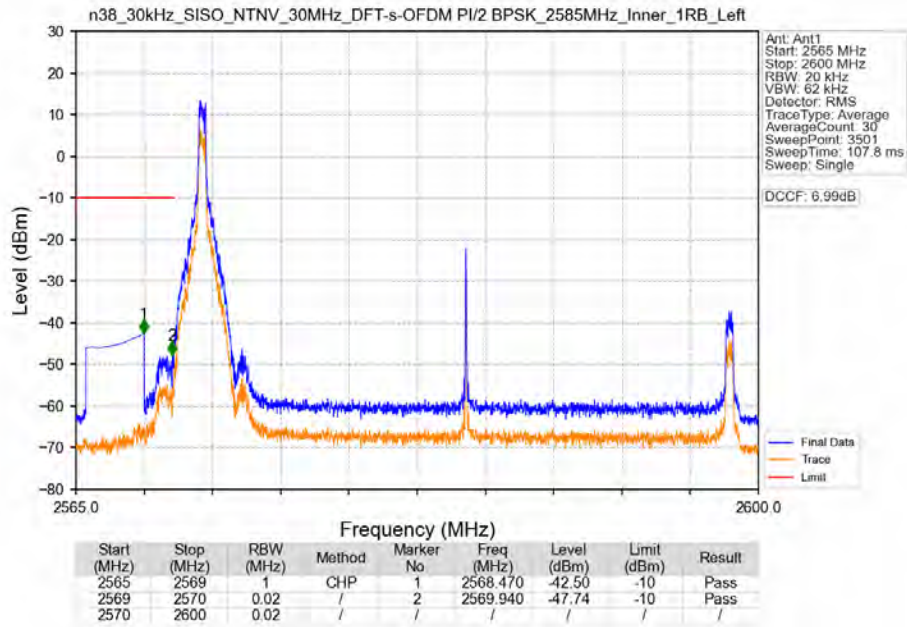
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left



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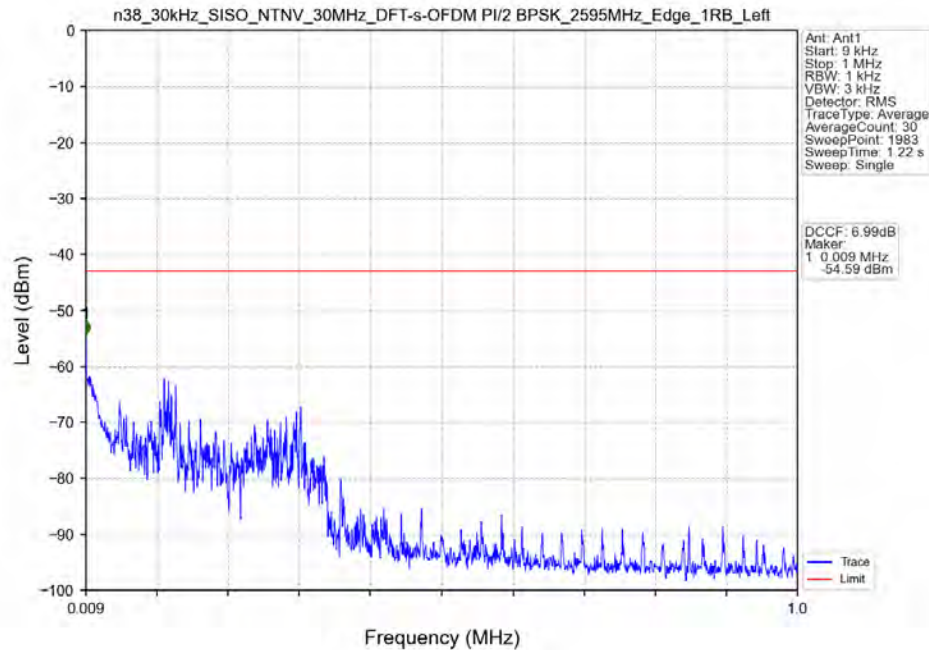


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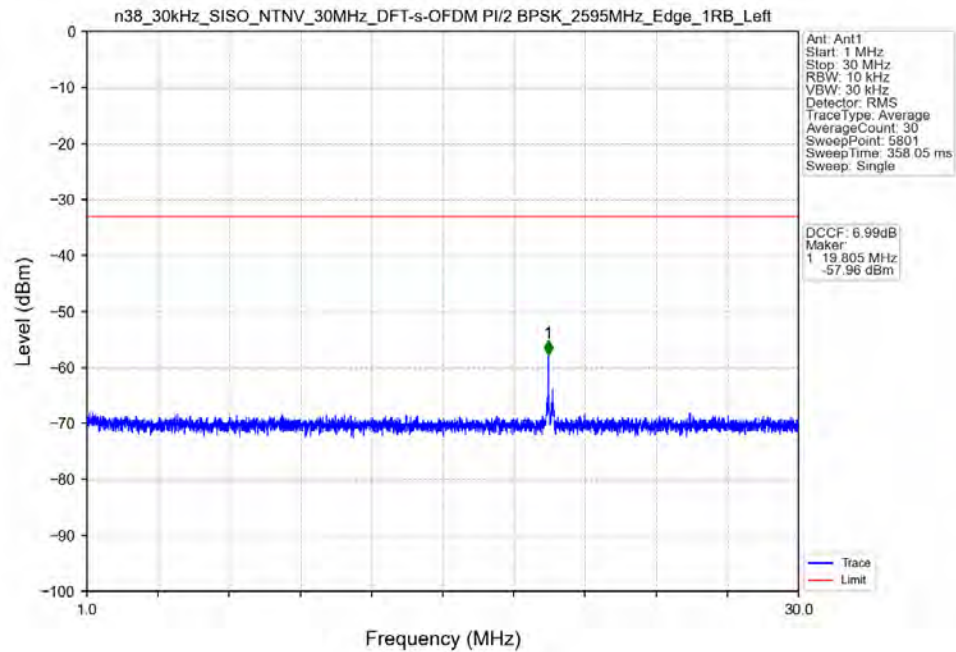
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left



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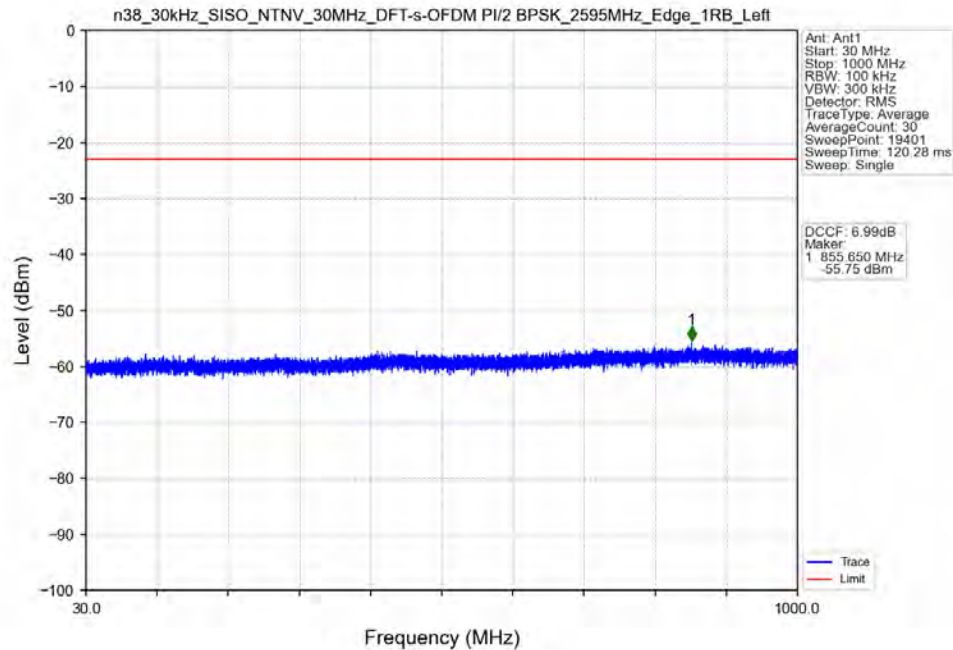


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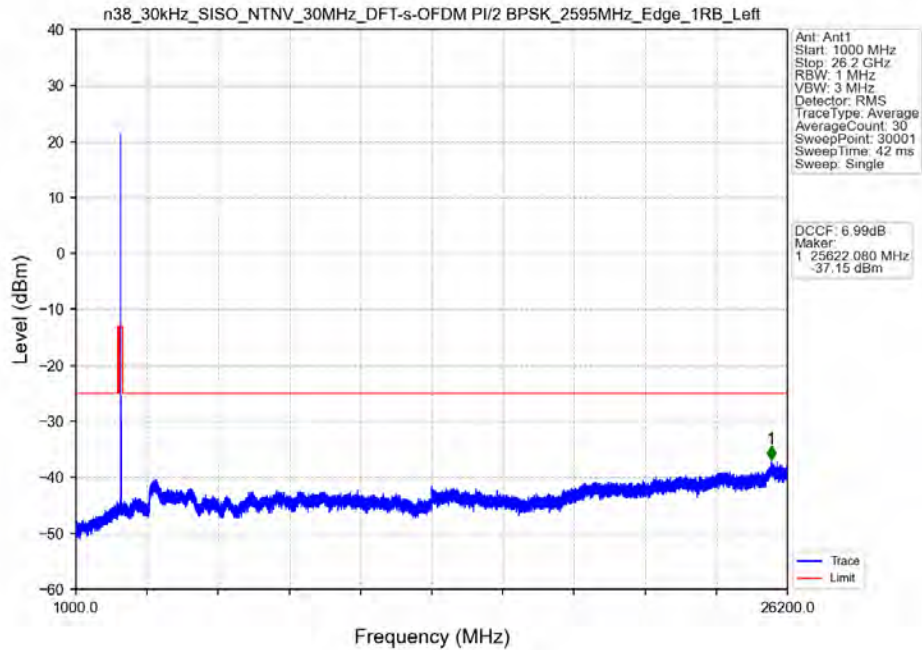
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2605MHz_Edge_1RB_Right



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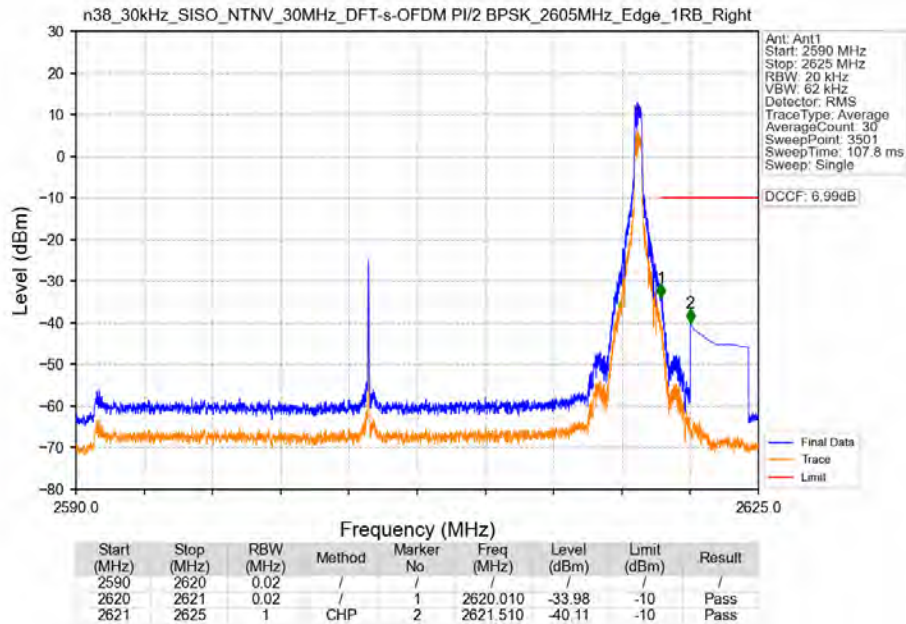


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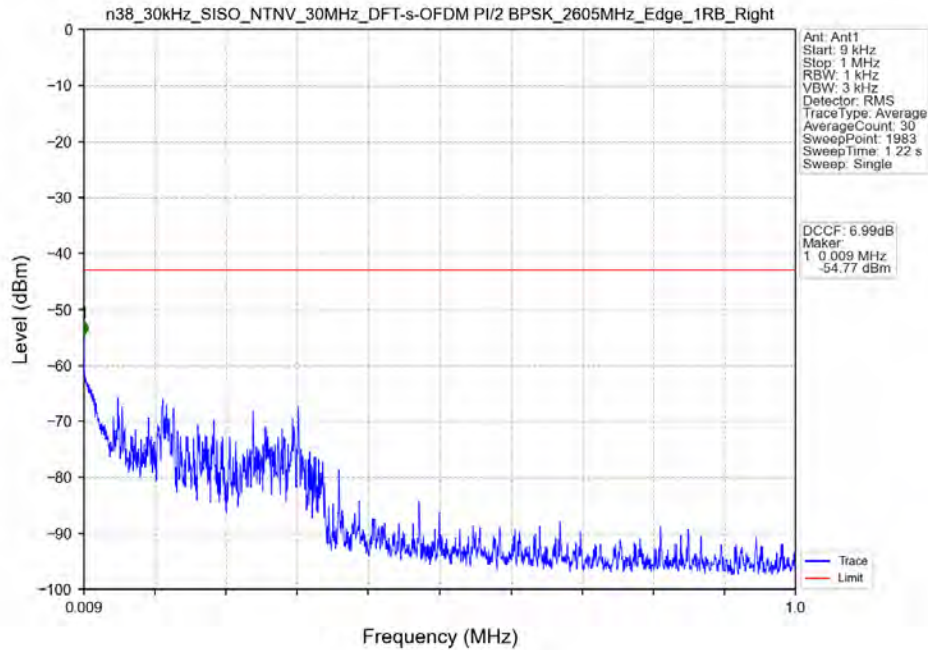
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2605MHz_Edge_1RB_Right



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2605MHz_Edge_1RB_Right



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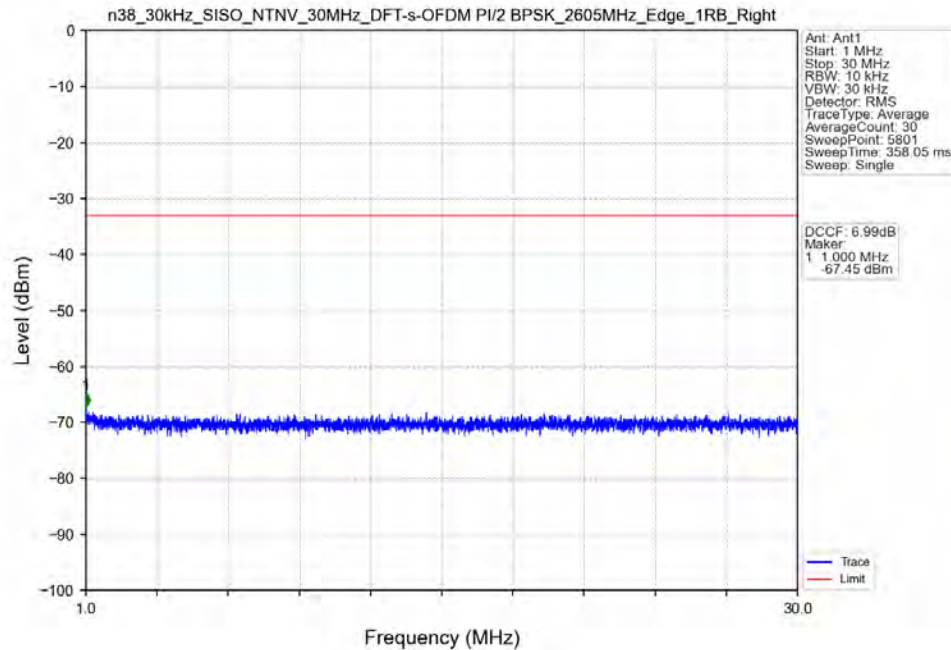


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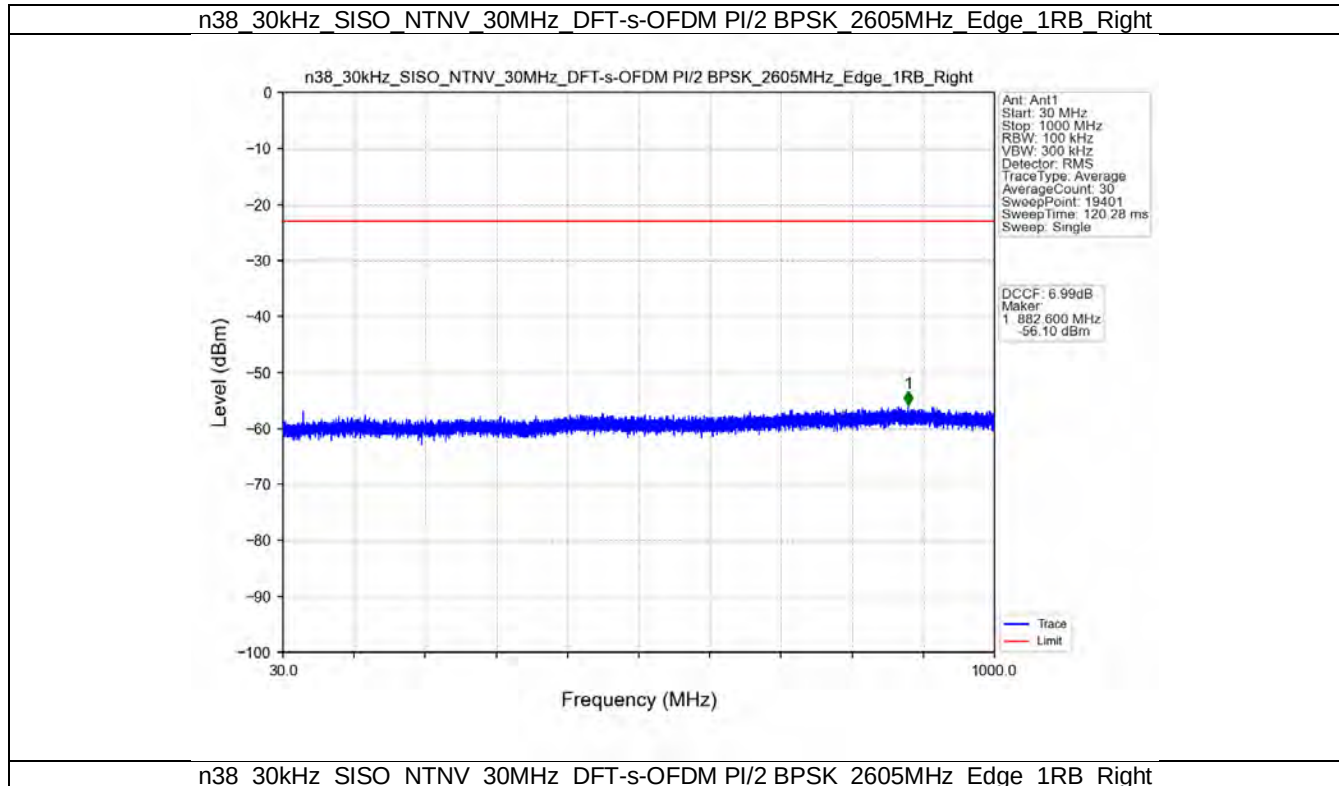


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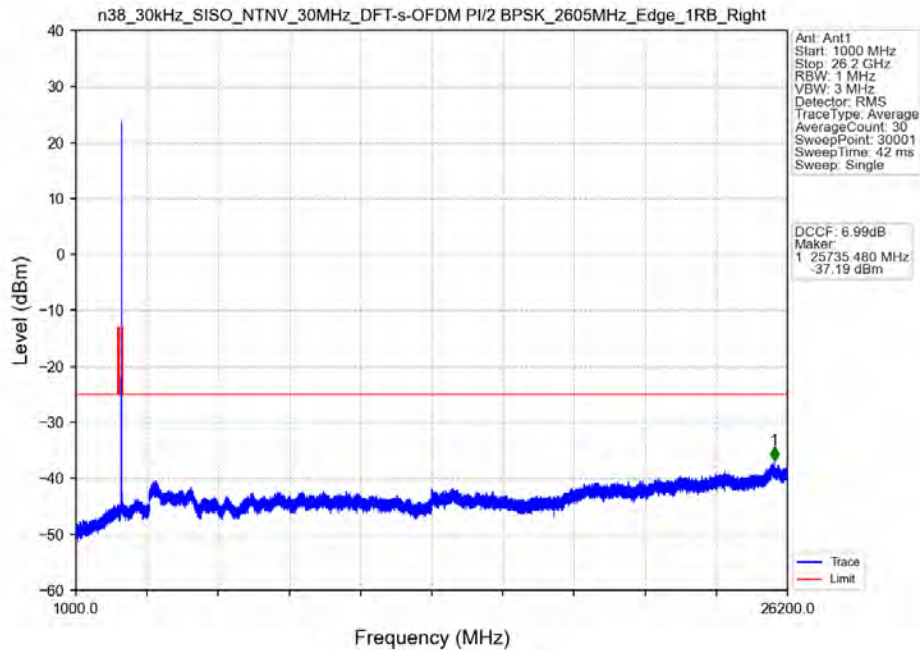


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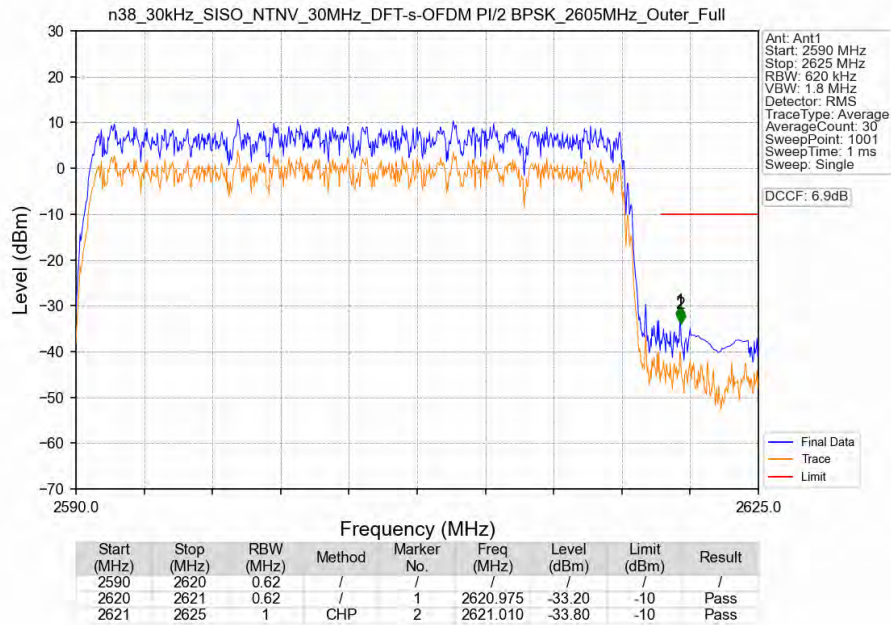
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2605MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2605MHz_Inner_1RB_Right



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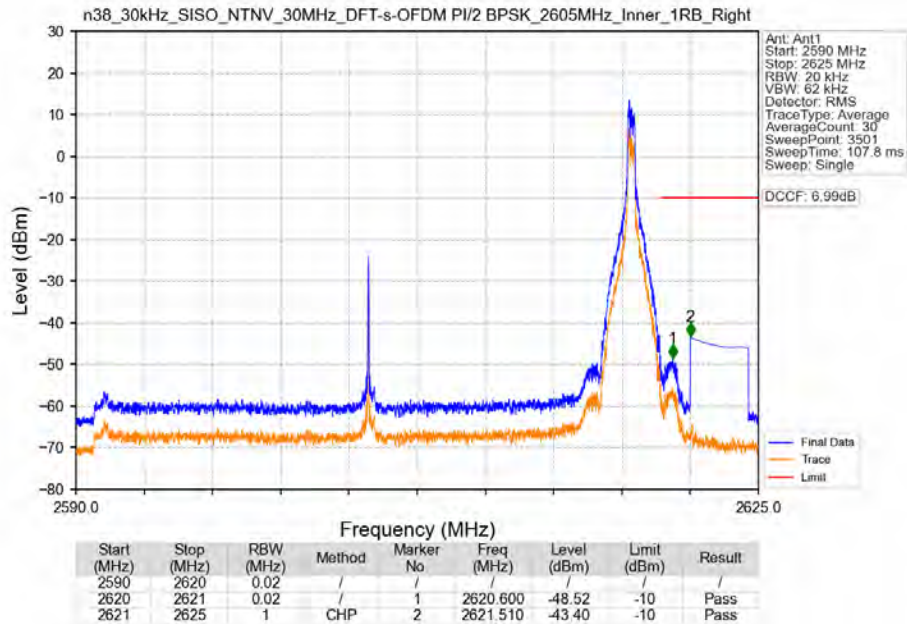


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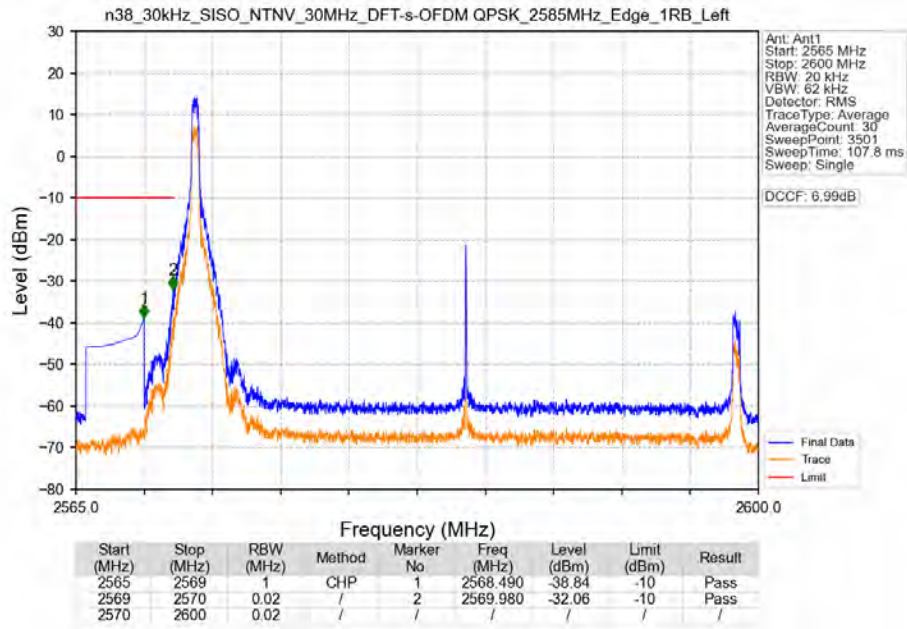
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_2585MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_2585MHz_Edge_1RB_Left



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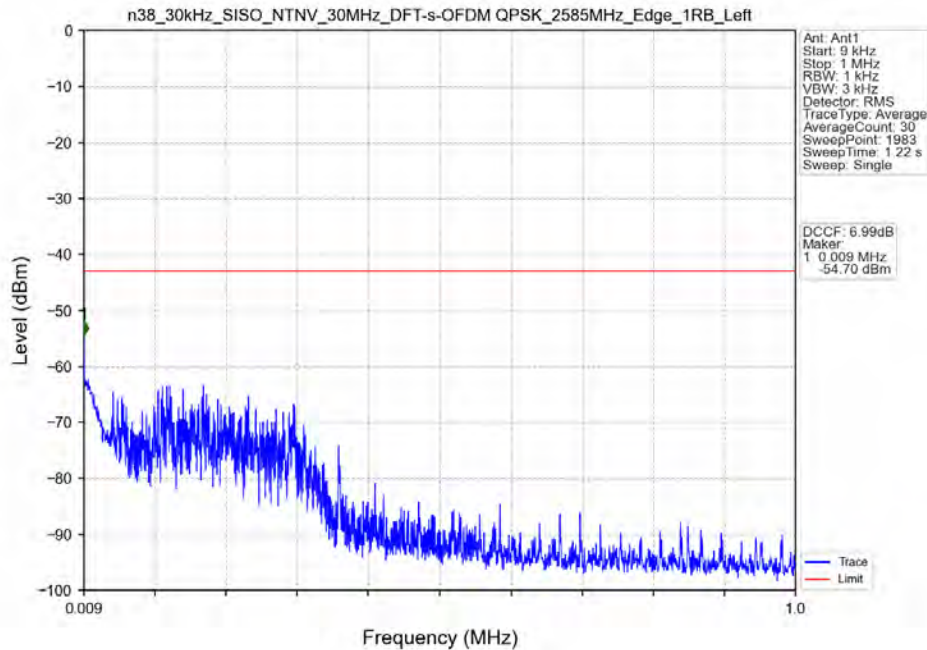


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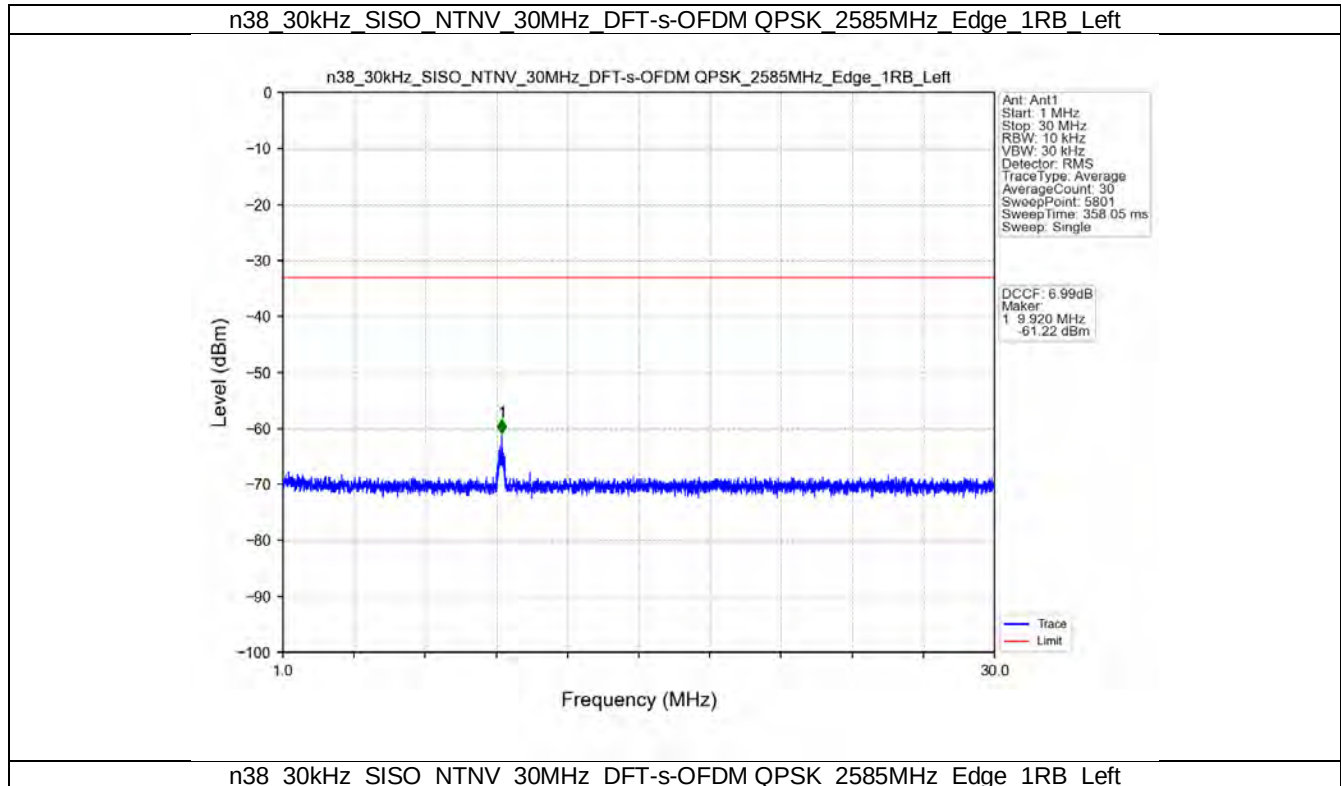


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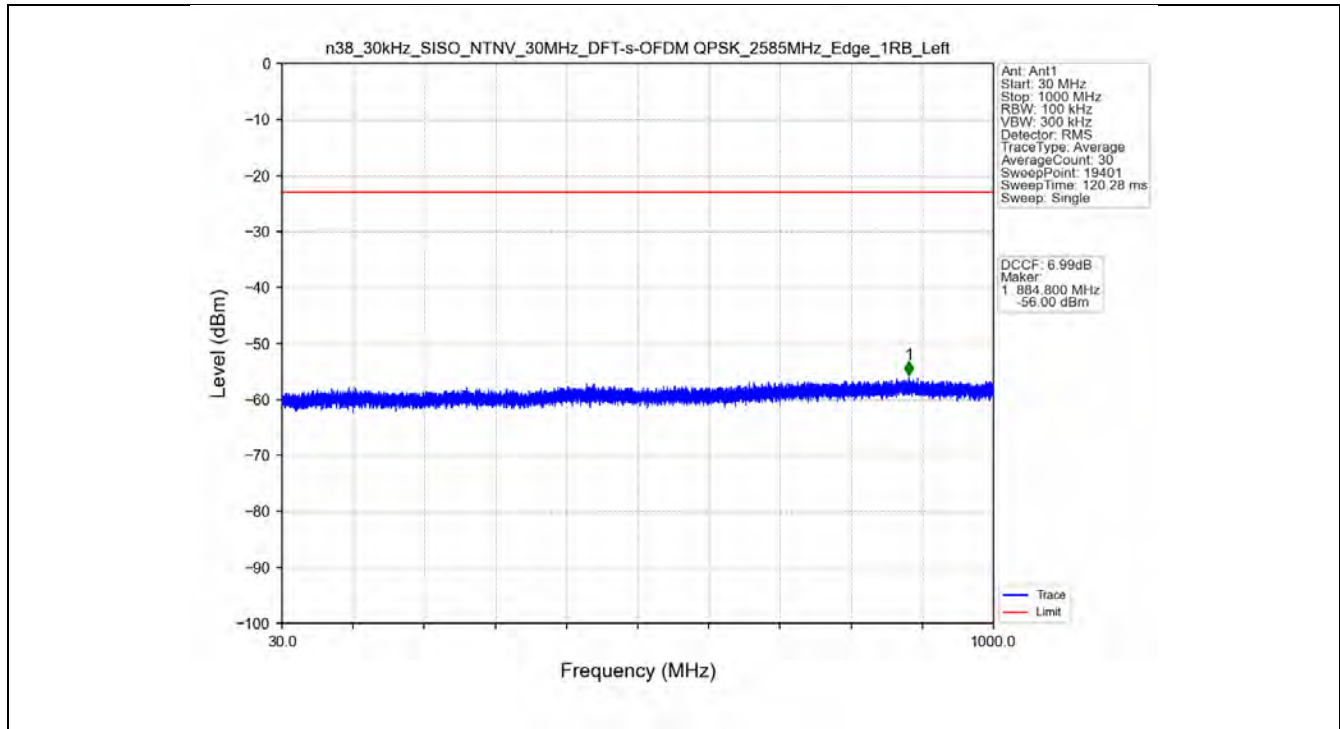


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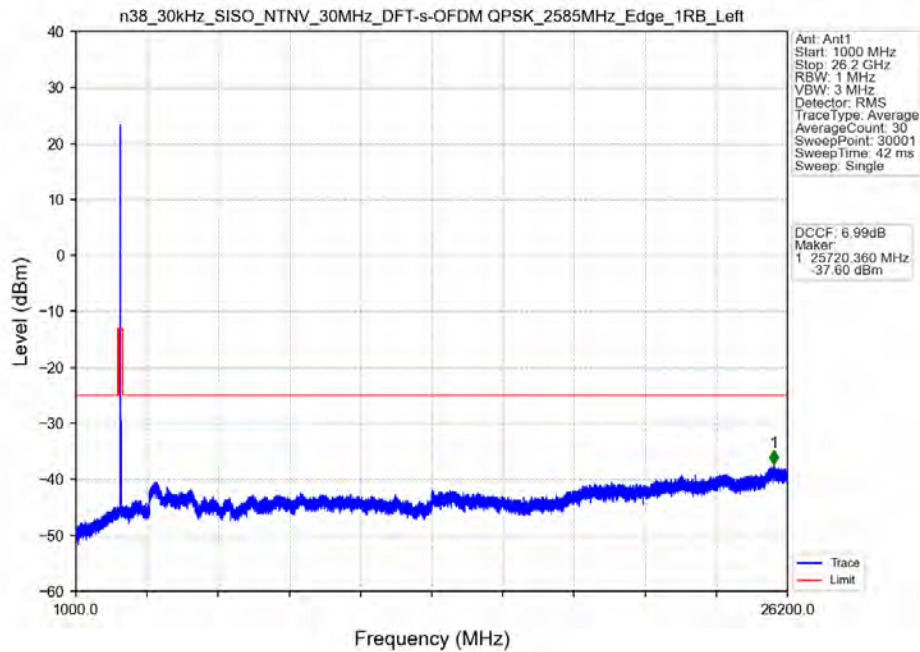
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2585MHz_Outer_Full



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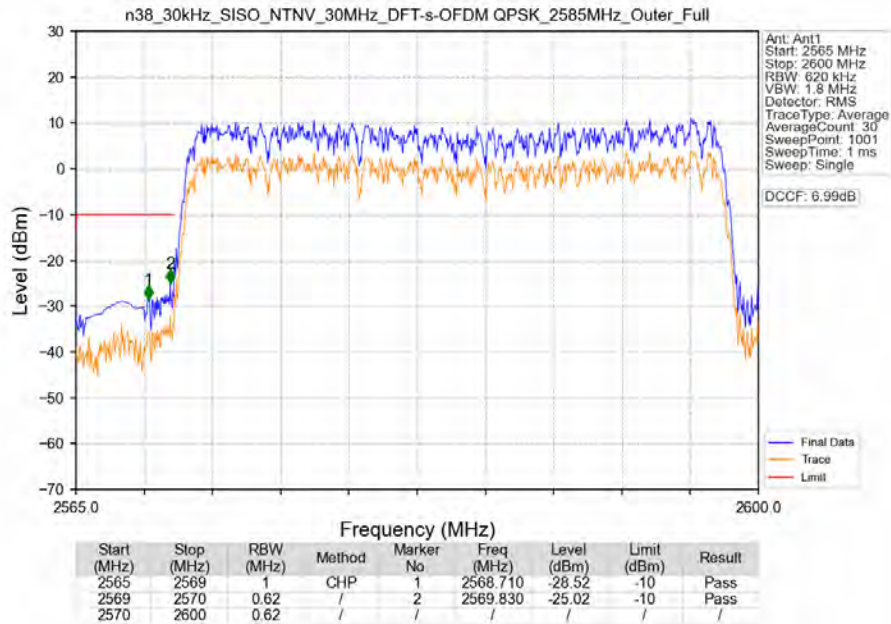


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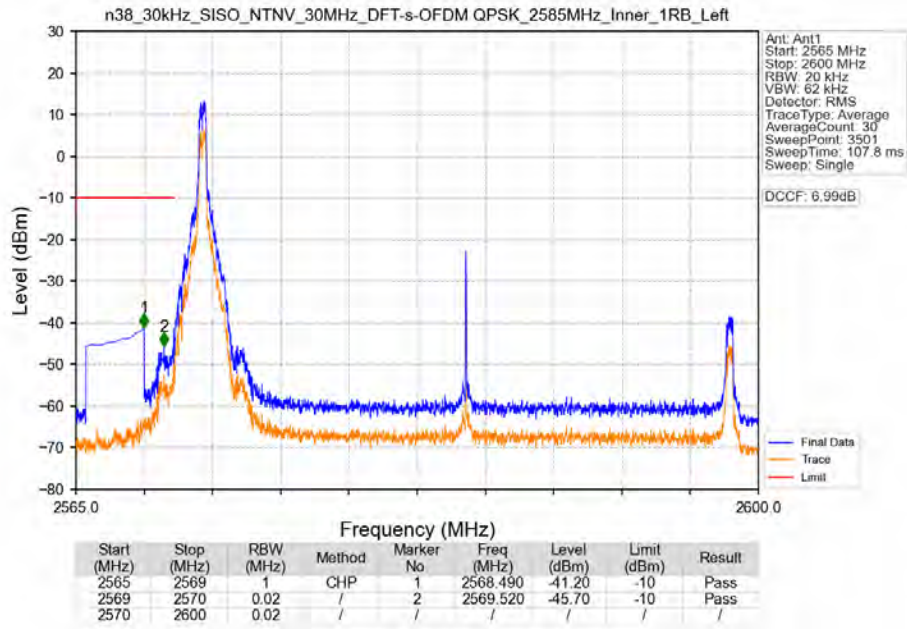
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_2595MHz_Edge_1RB_Left



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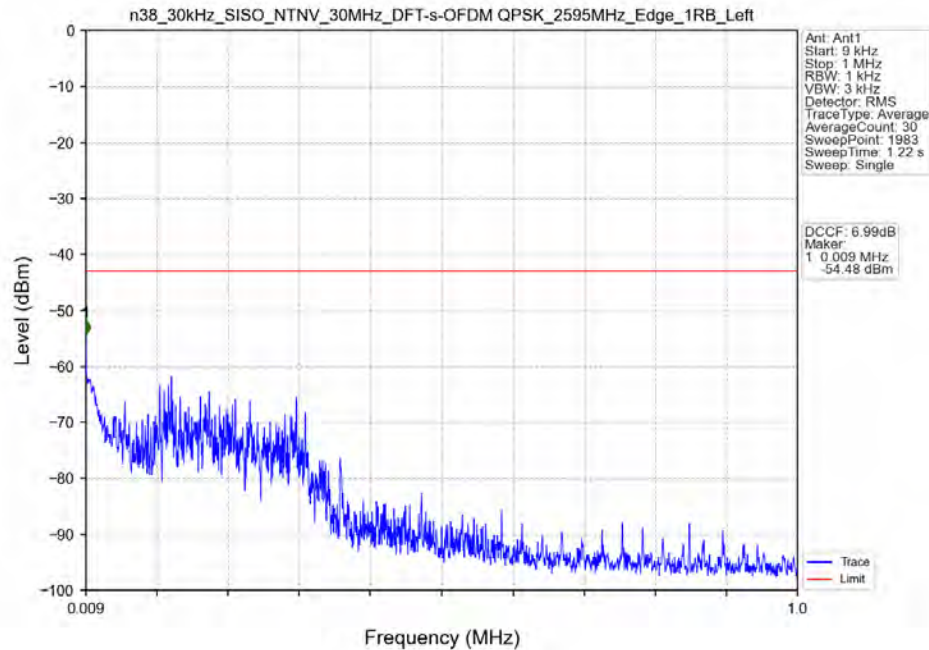


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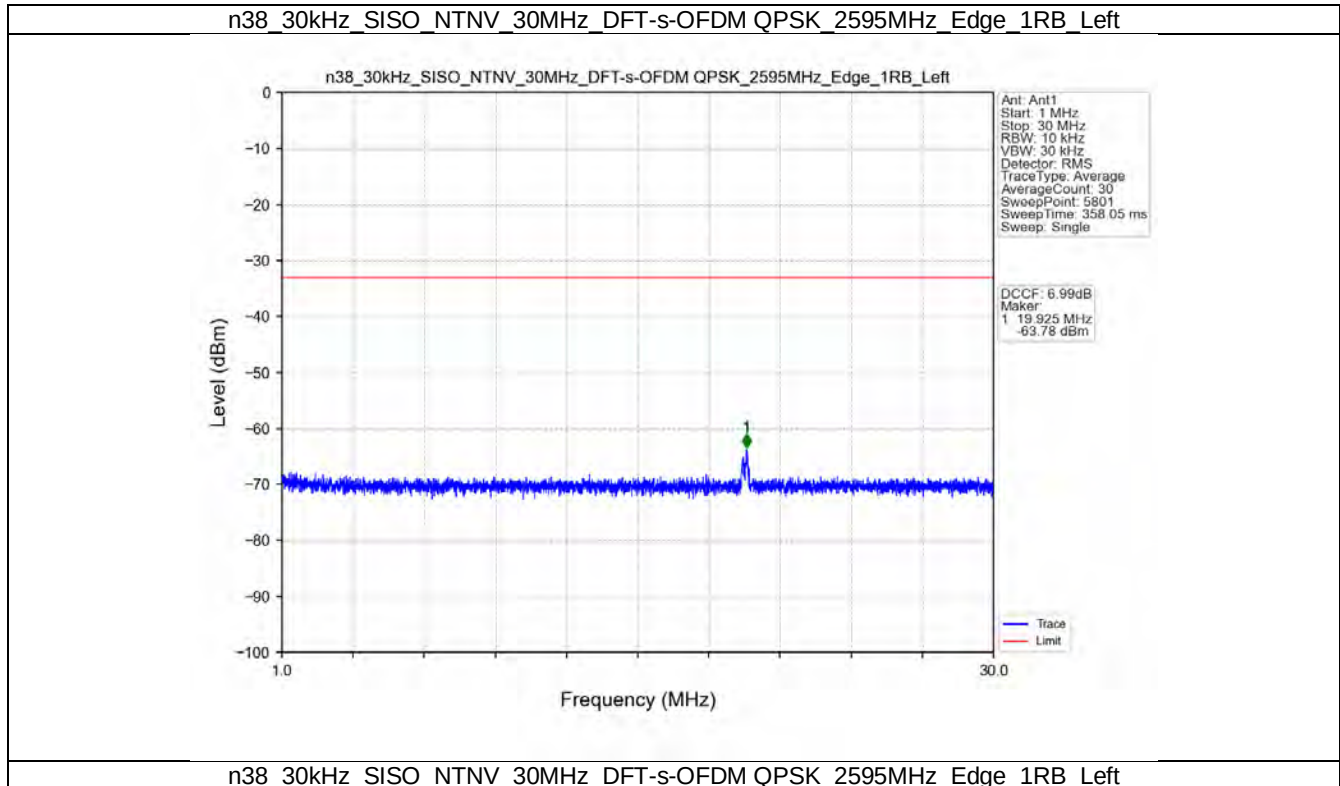


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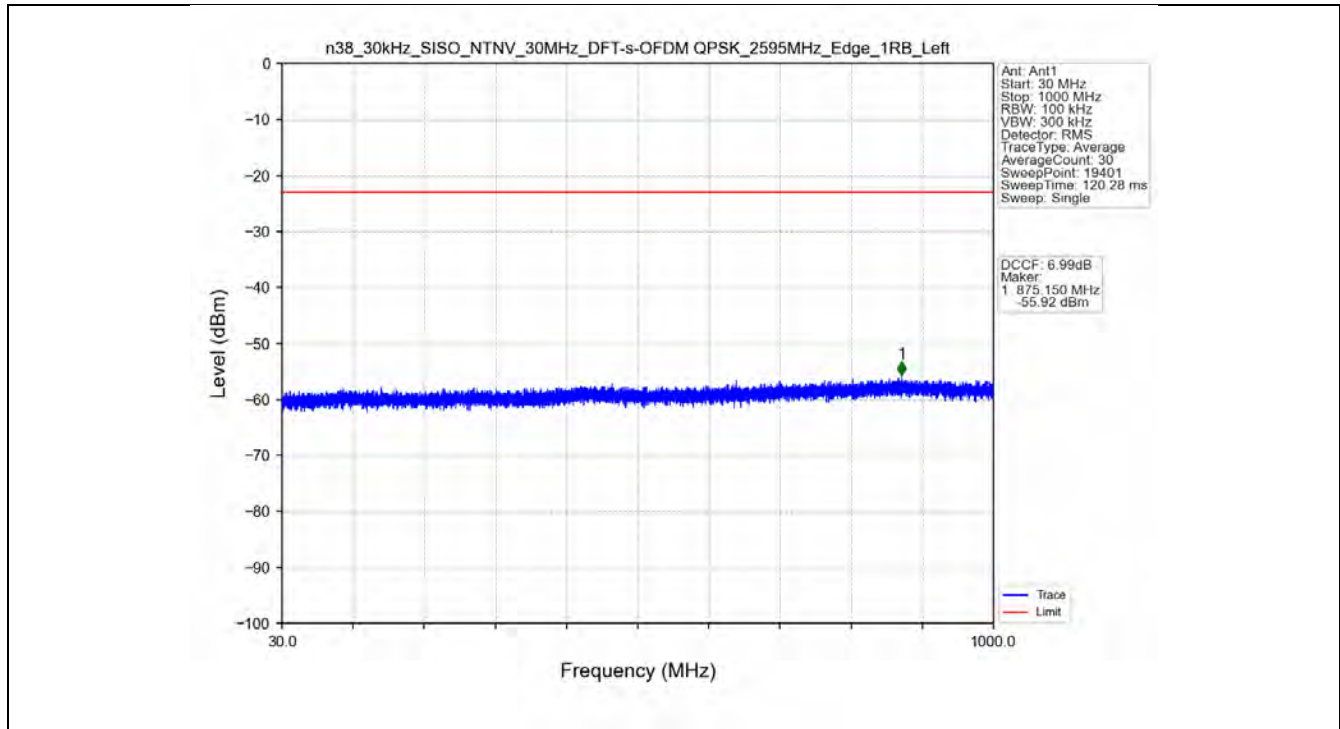


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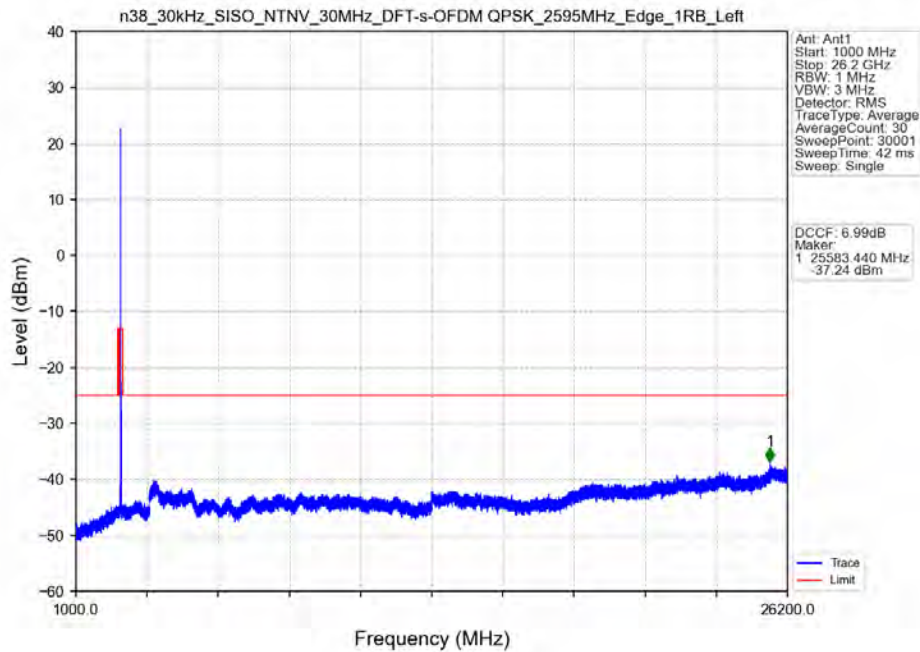
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2595MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2605MHz_Edge_1RB_Right



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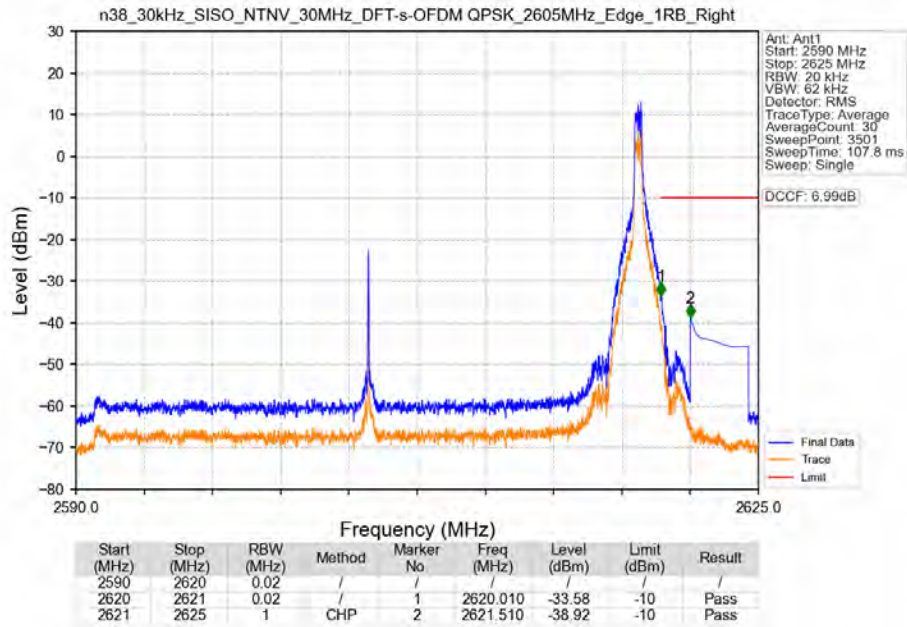


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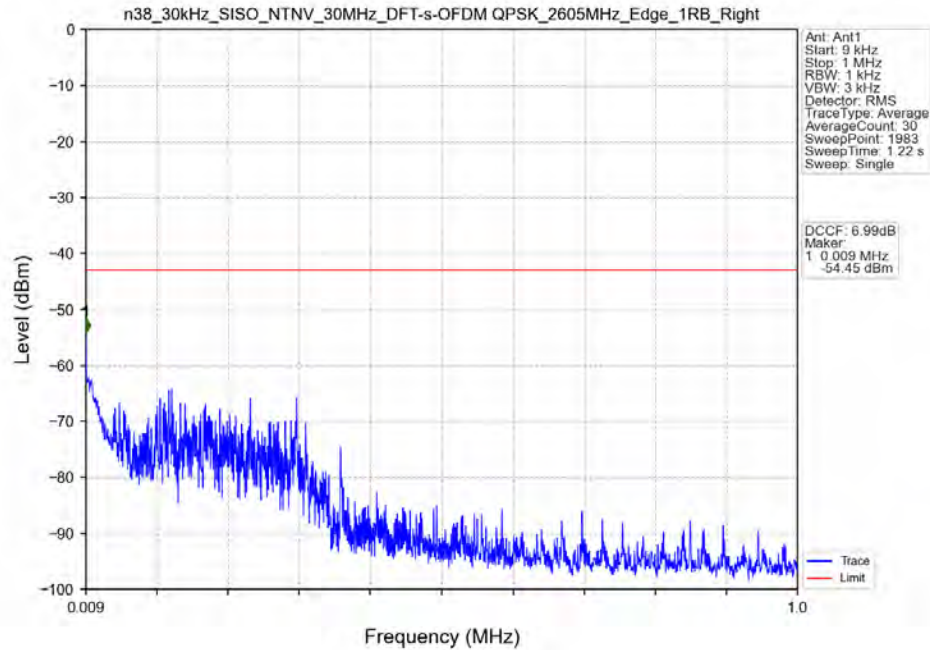
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2605MHz_Edge_1RB_Right



n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2605MHz_Edge_1RB_Right



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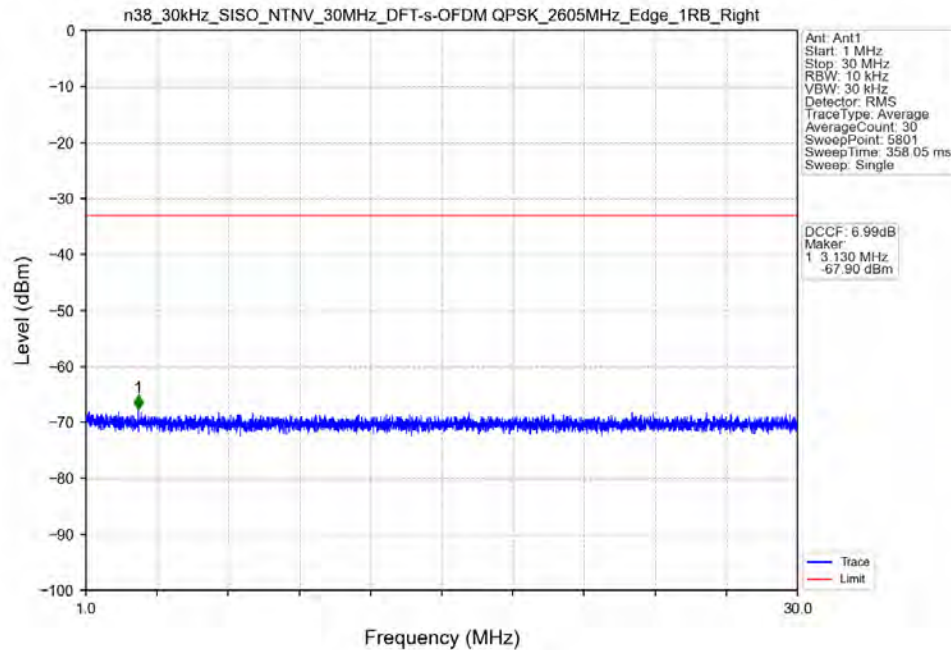


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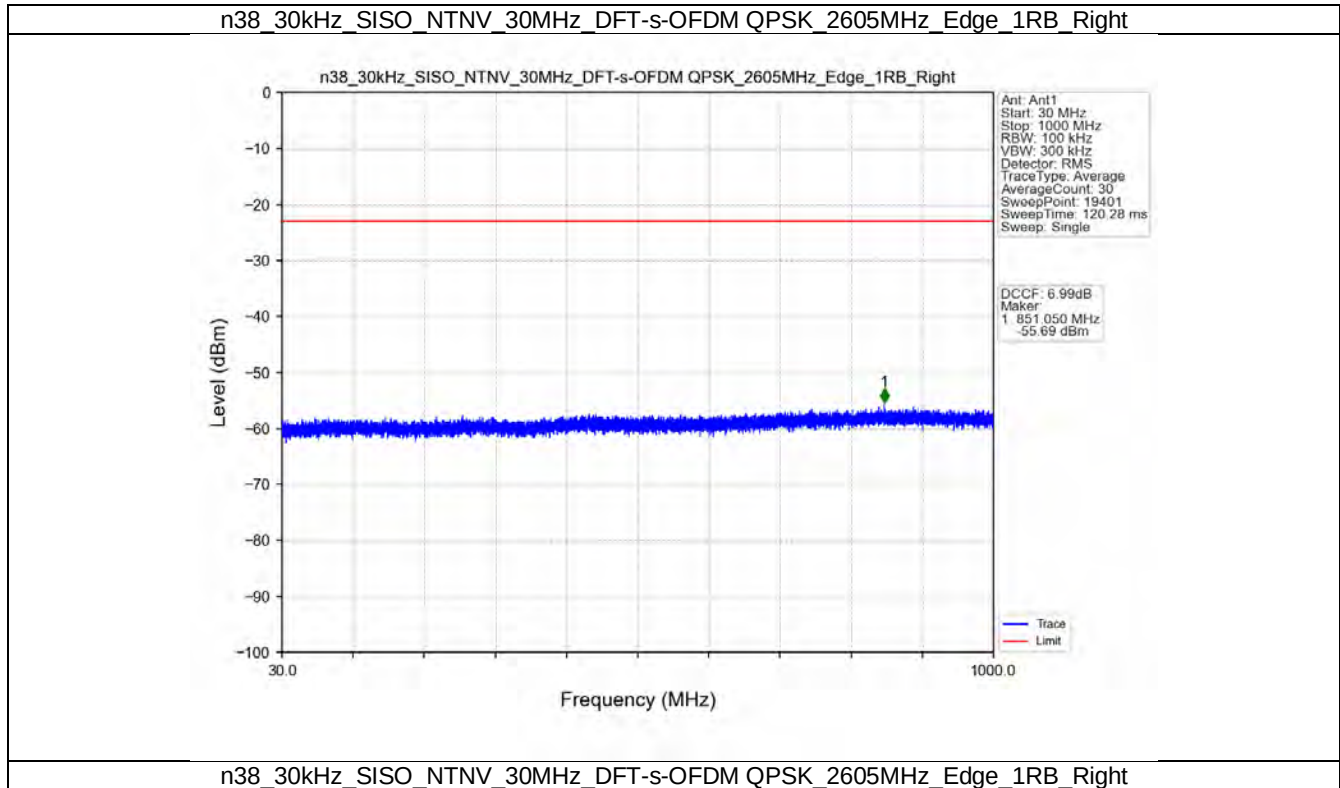


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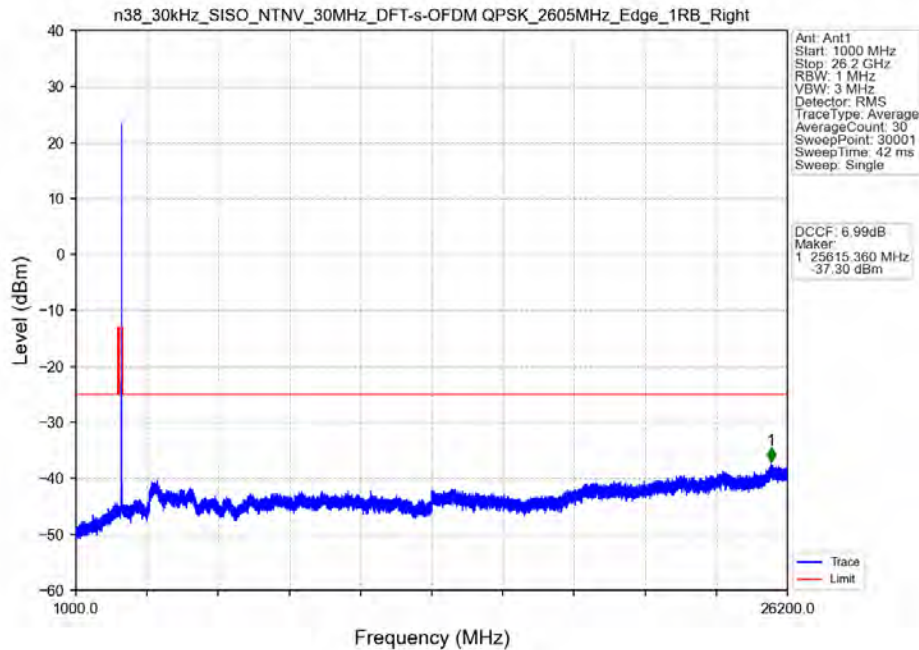


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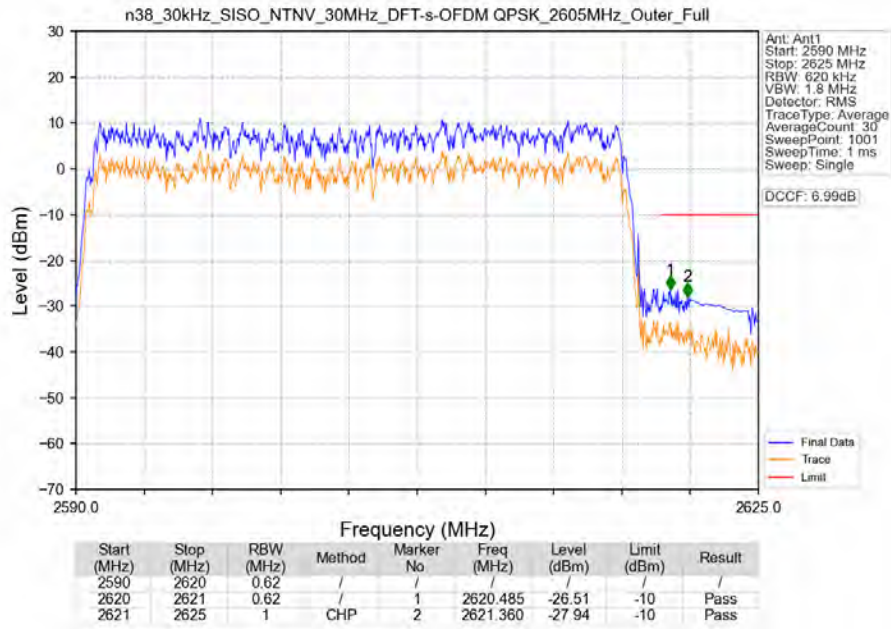
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n38_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2605MHz_Inner_1RB_Right



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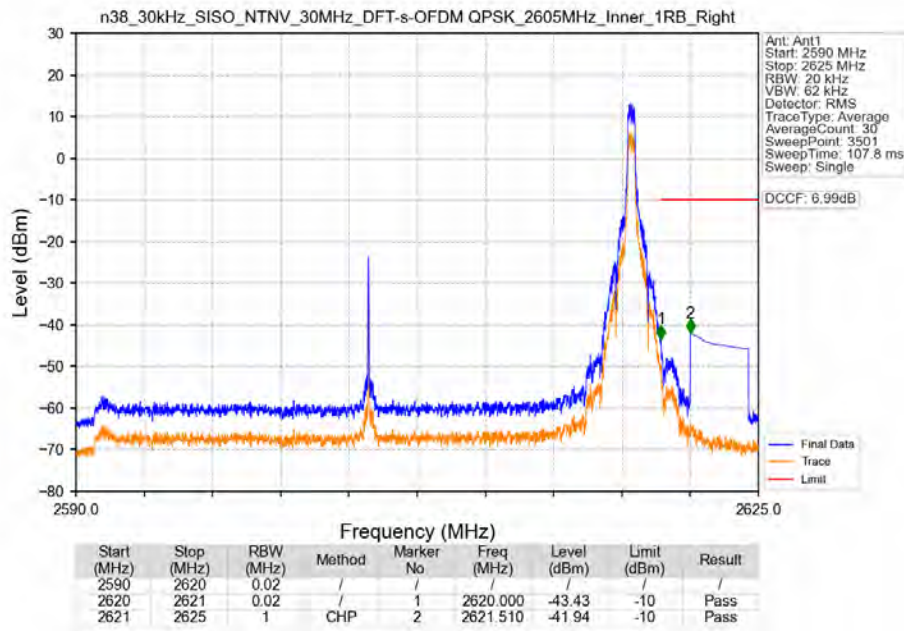


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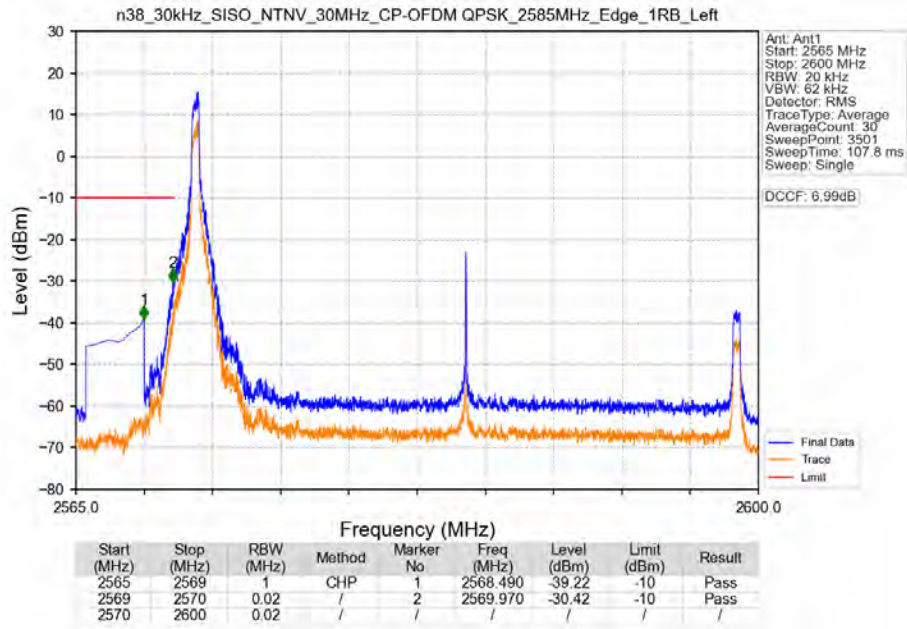
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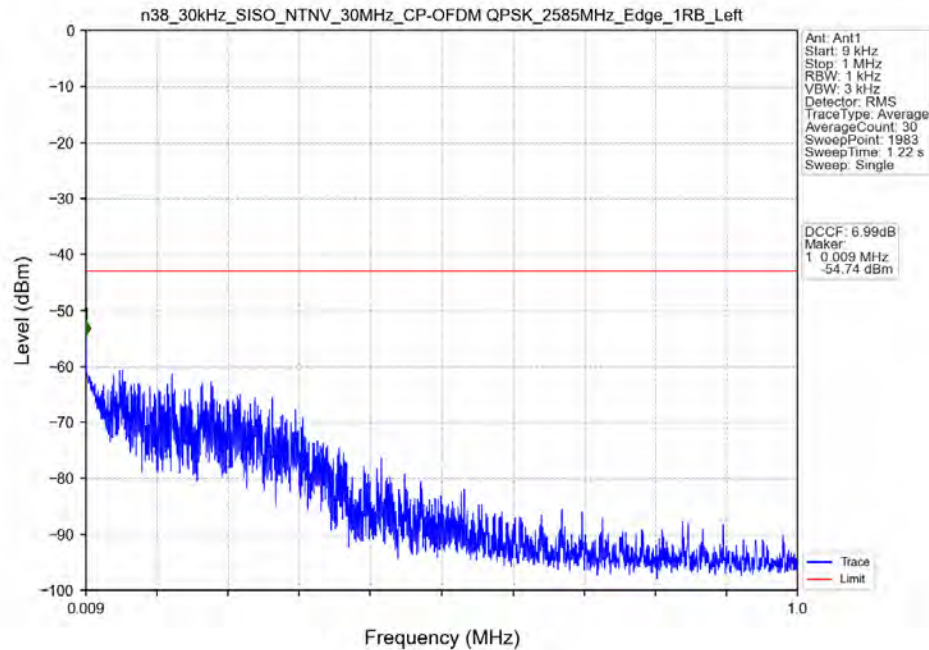


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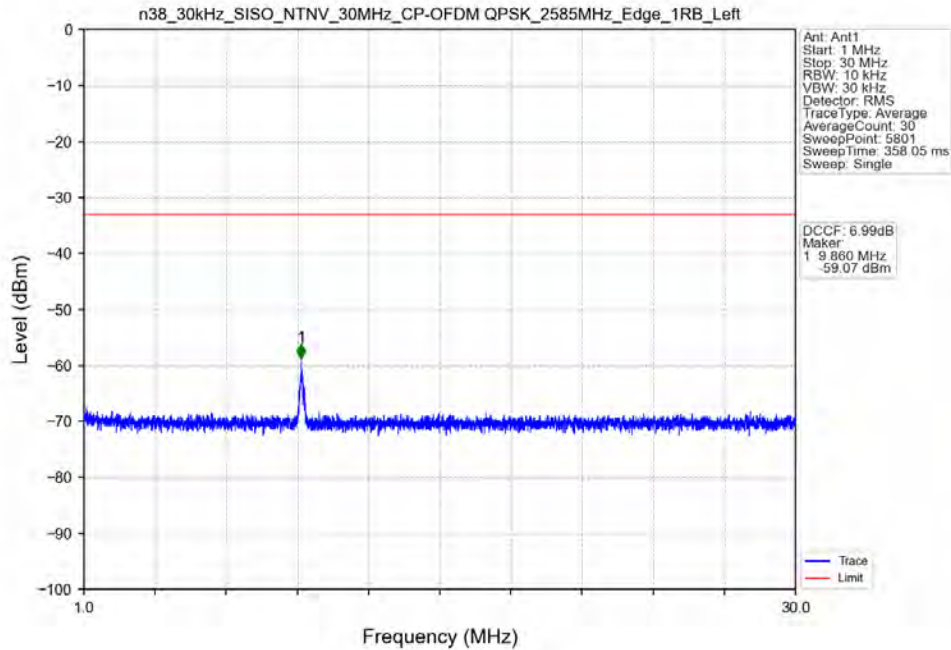
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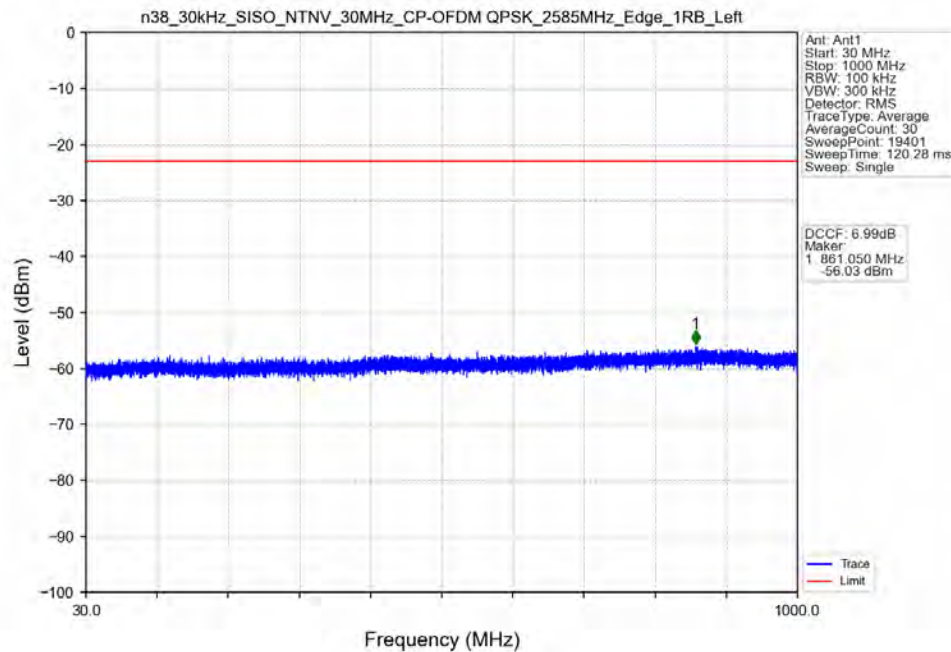


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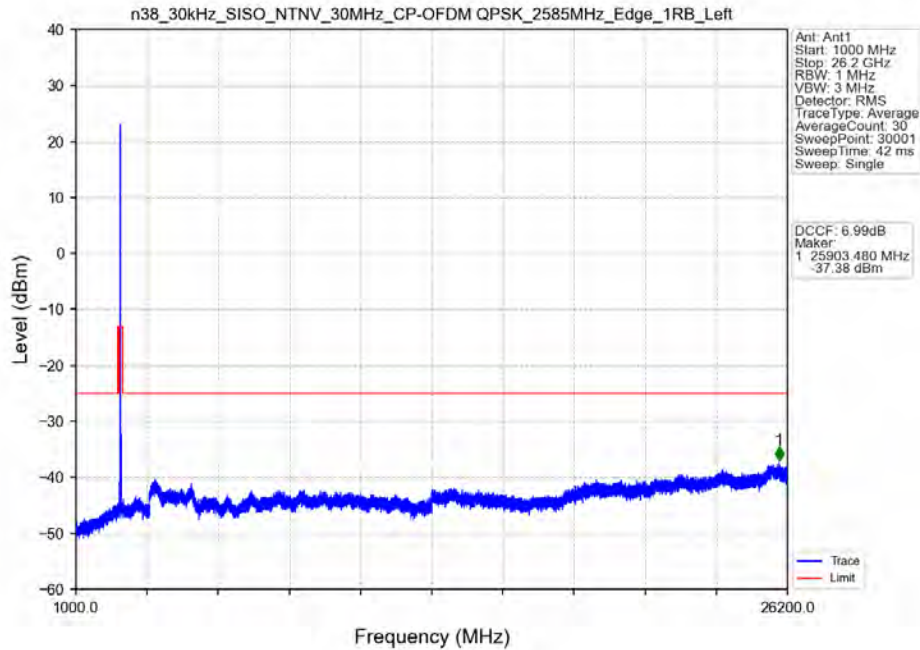
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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2585MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2585MHz_Outer_Full



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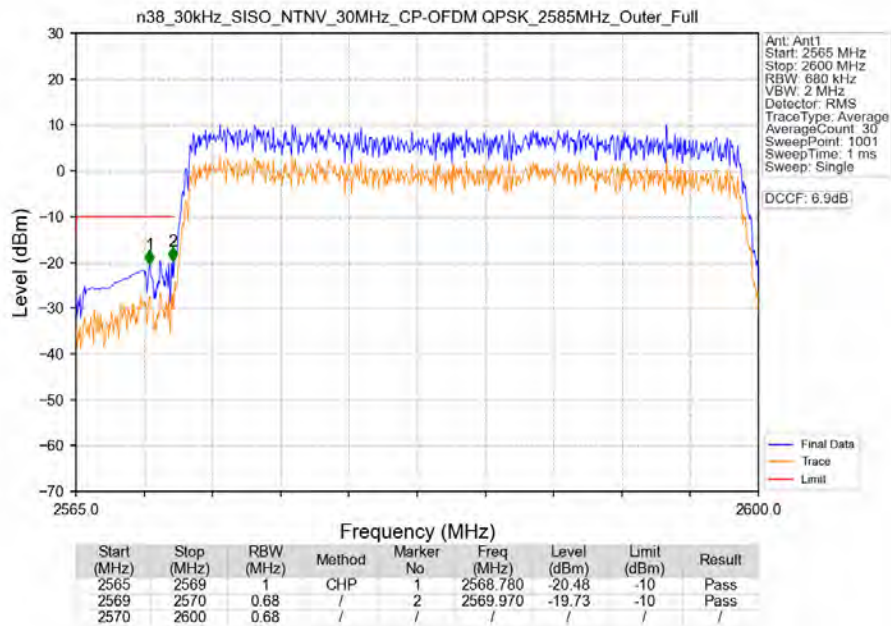


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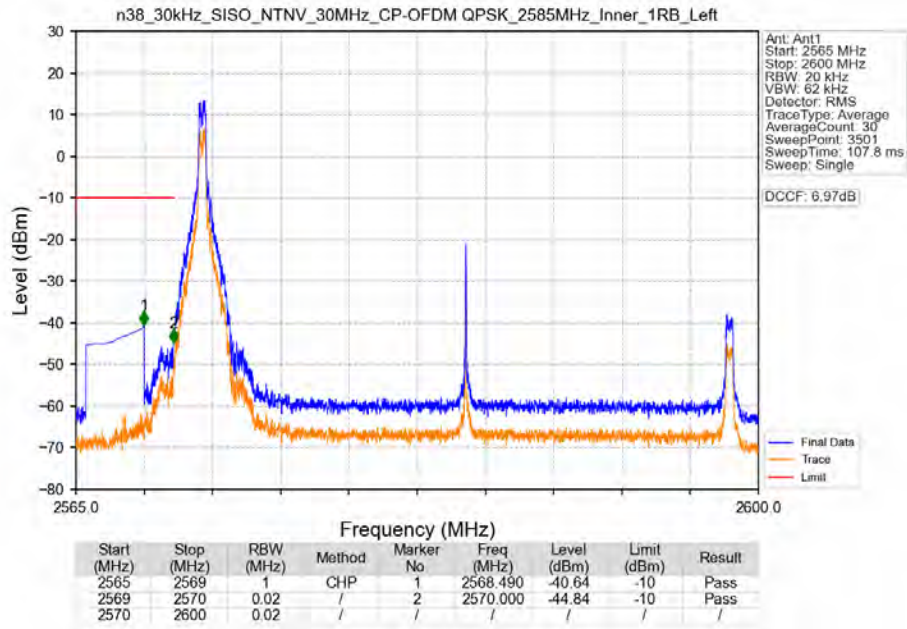
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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_2595MHz_Edge_1RB_Left



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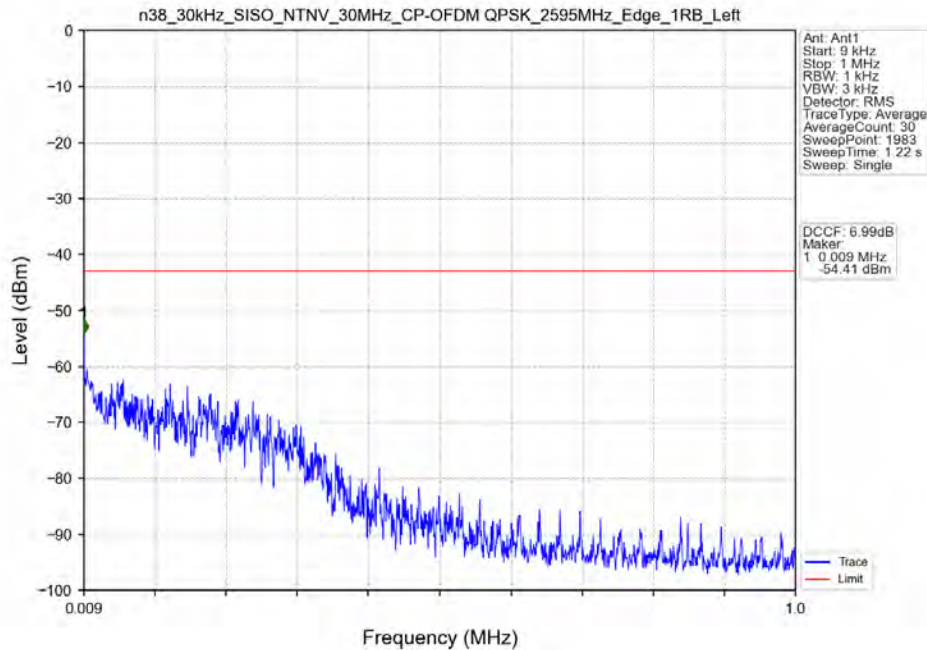


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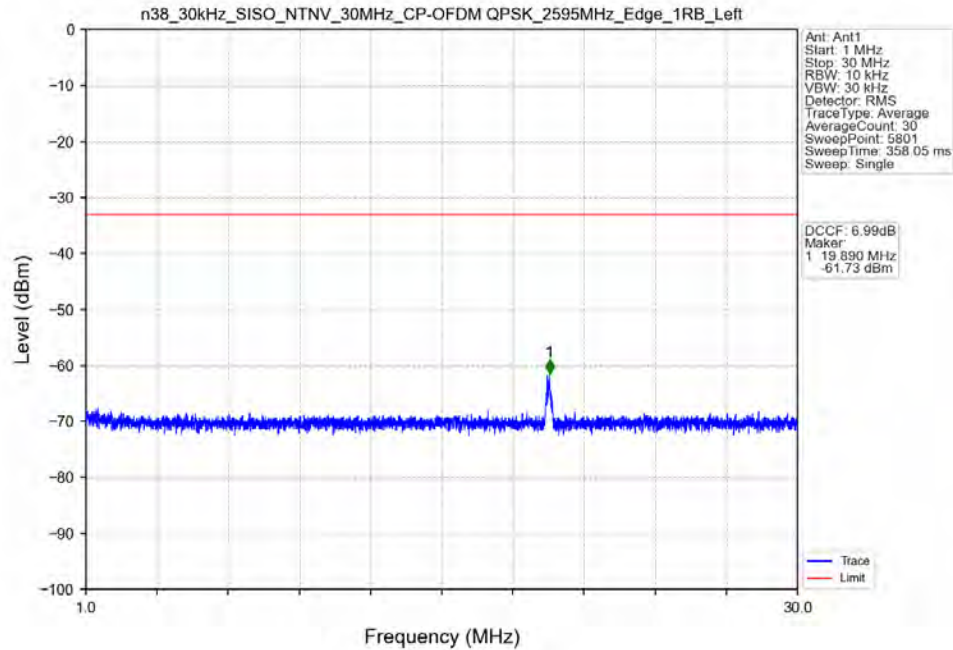
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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_2595MHz_Edge_1RB_Left



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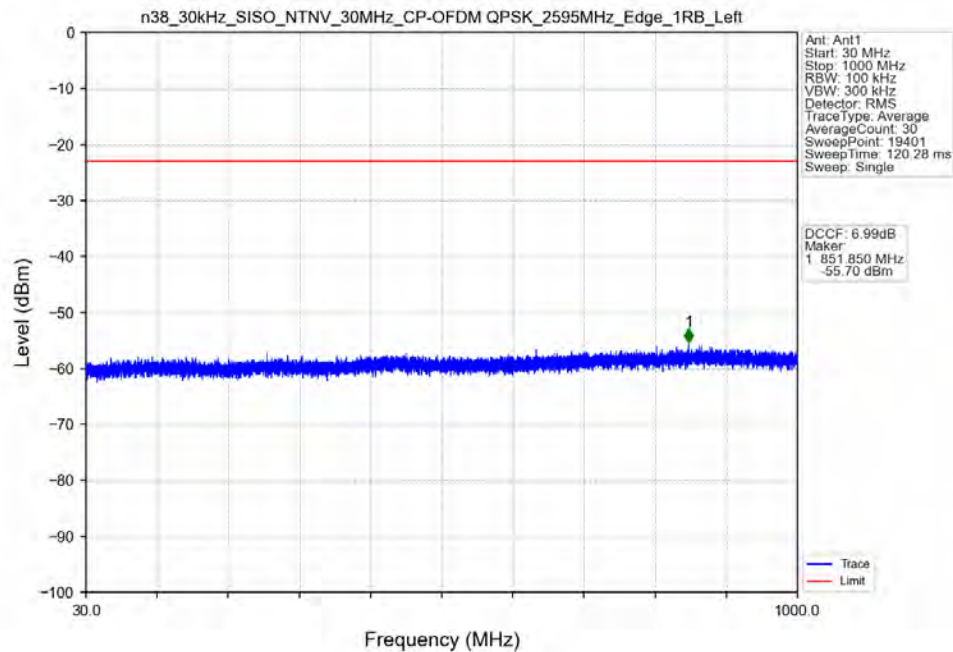


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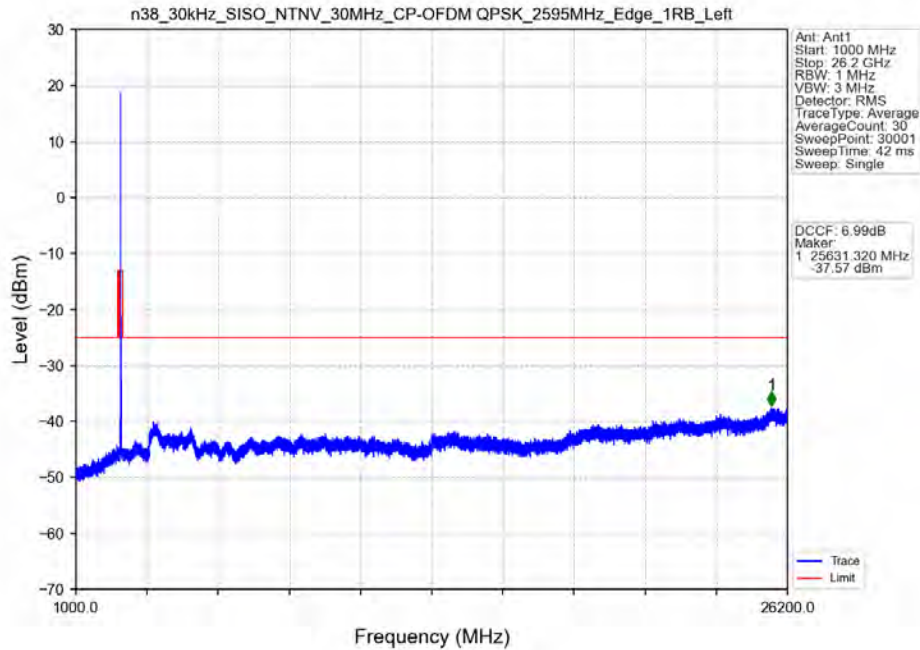
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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2605MHz_Edge_1RB_Right



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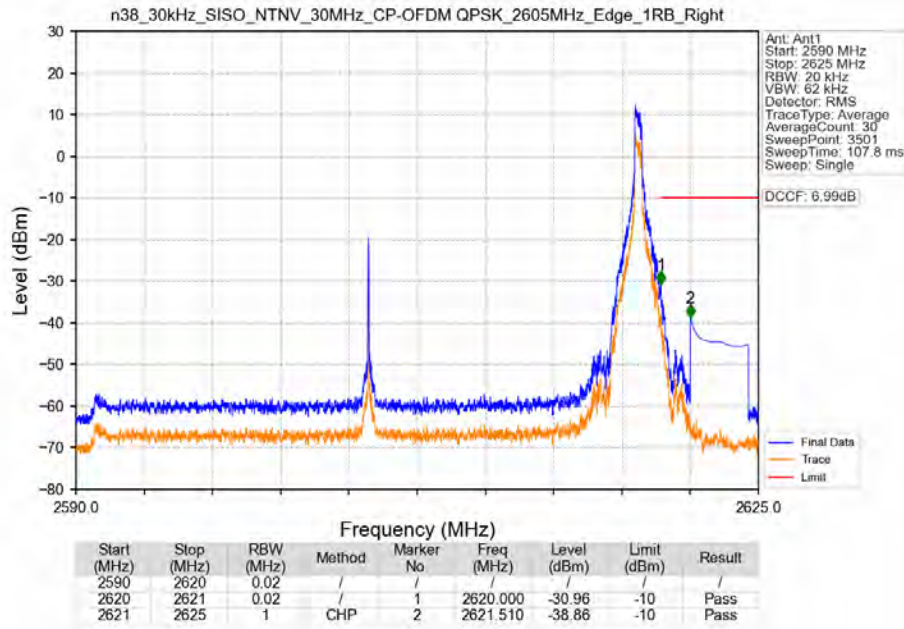


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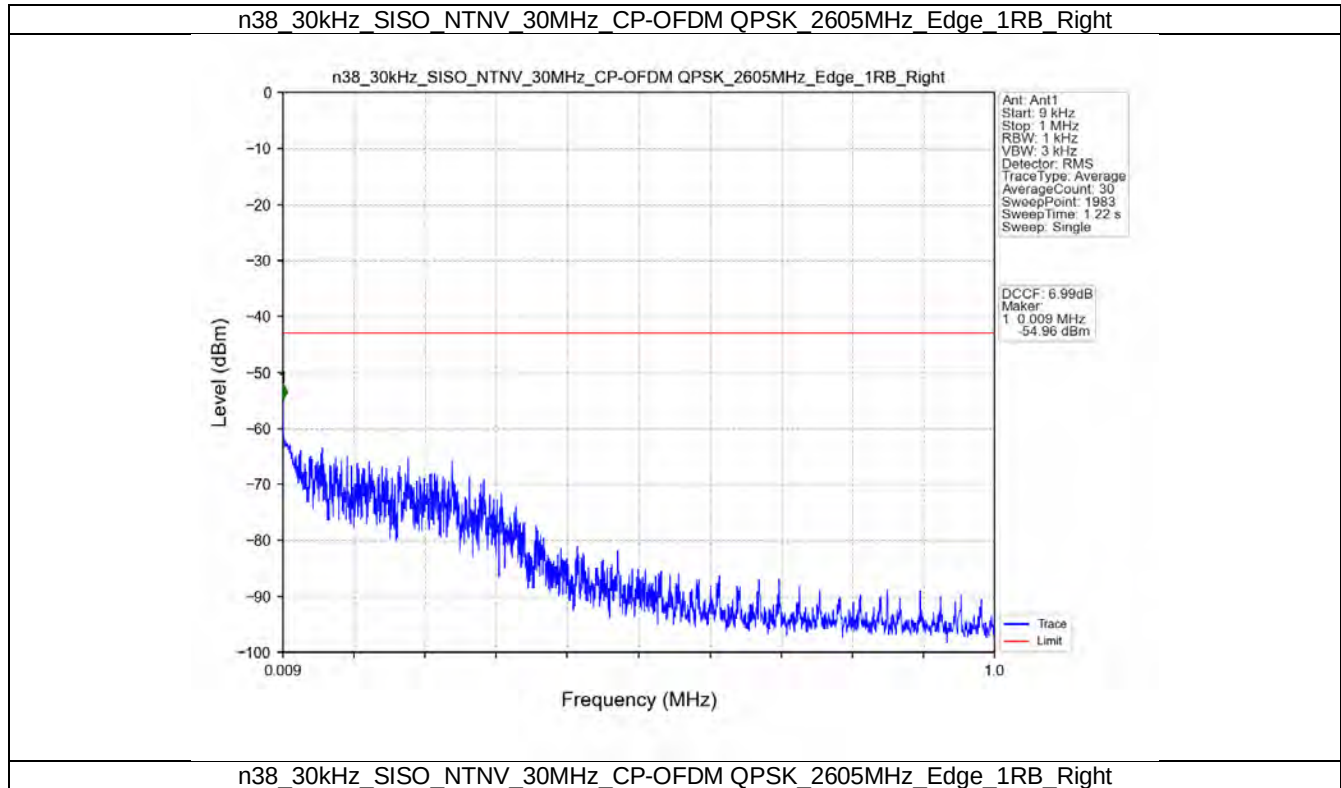


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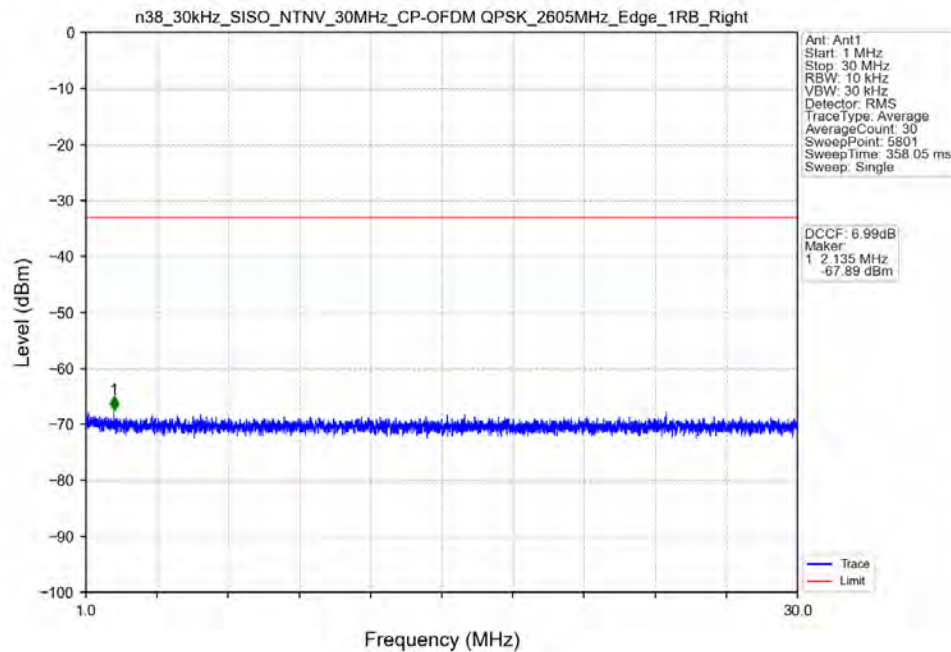


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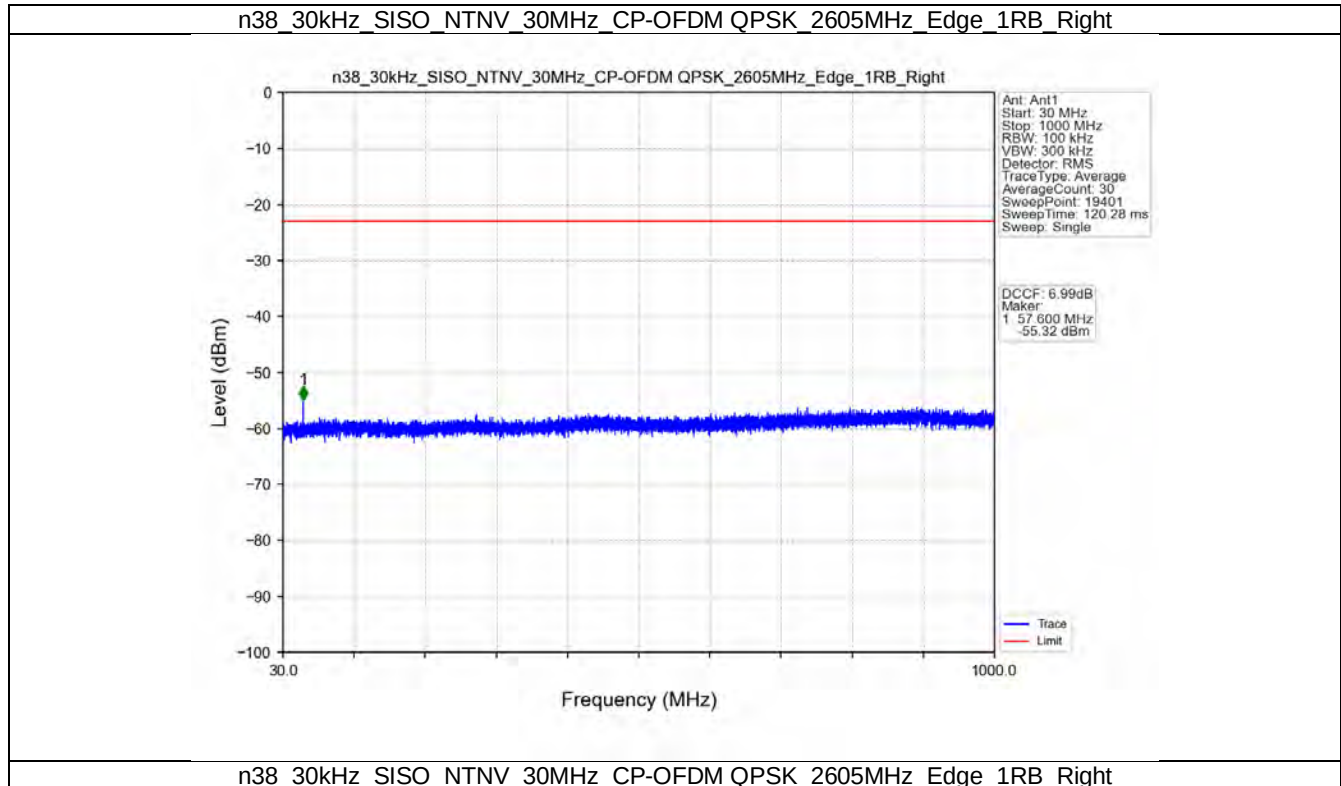


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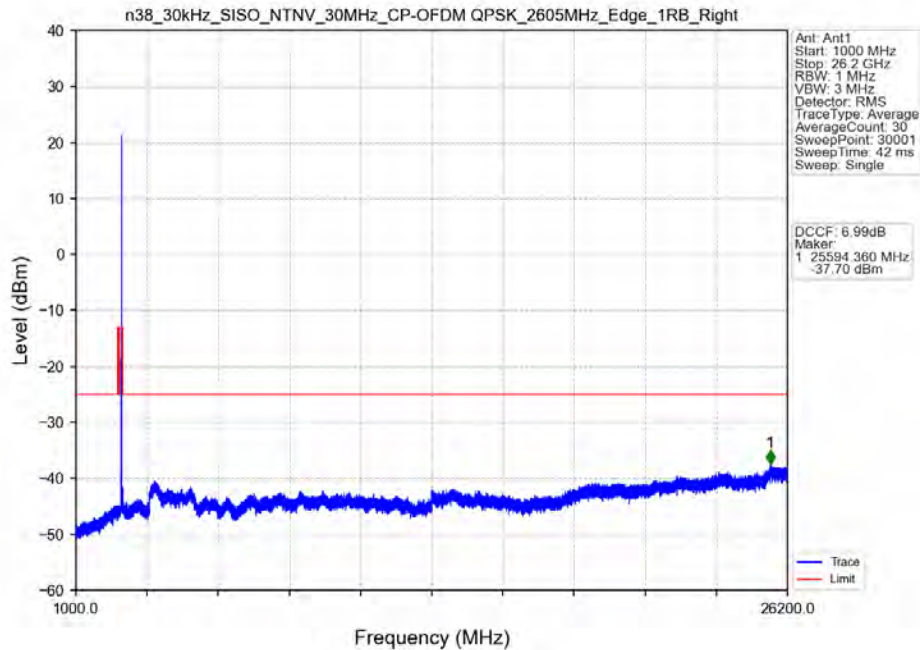


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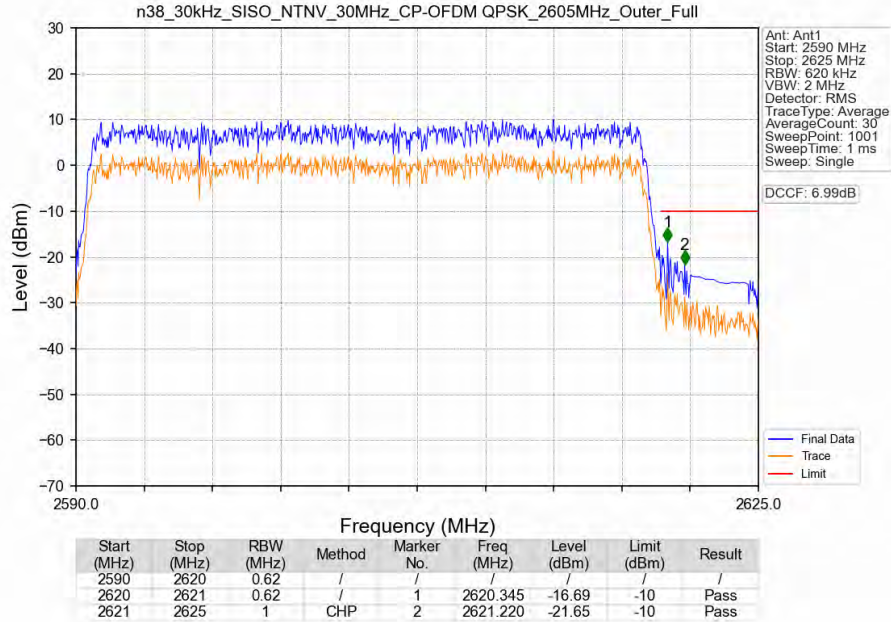
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n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2605MHz_Outer_Full



n38_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2605MHz_Inner_1RB_Right



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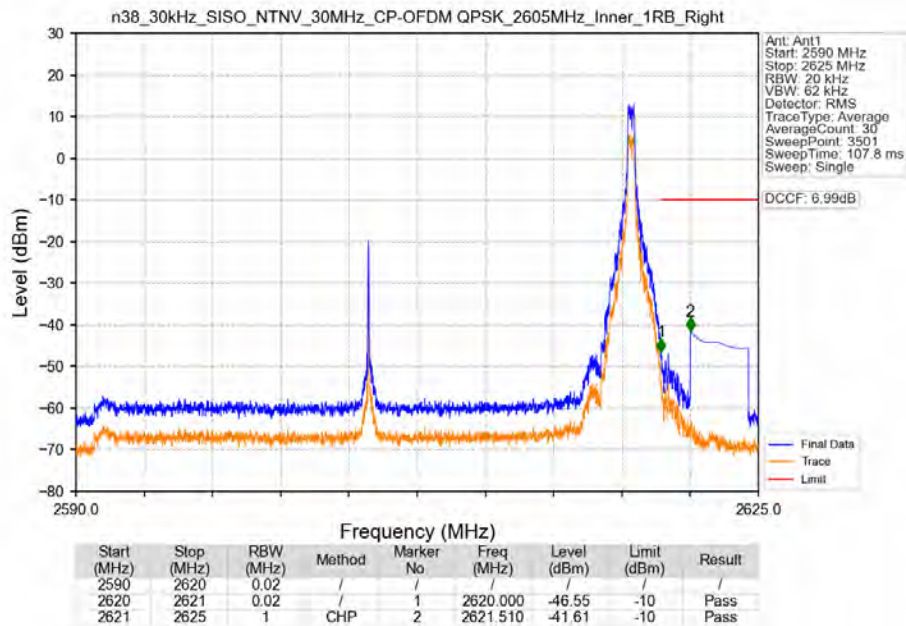


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5.3 30k_SISO_40MHz_NTNV

5.3.1 Test Result

5G NR n38 SCS=30kHz SISO 40MHz NTNv								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant1	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	2590	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	2595	Edge_1RB_Left	Refer To Test Graph				Pass	
		2600	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	2590		Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
	2595	Inner_1RB_Left	Refer To Test Graph				Pass	
		2600	Edge_1RB_Left	Refer To Test Graph				Pass
			Edge_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	2590		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass	
		Edge_1RB_Left	Refer To Test Graph				Pass	
	2595	Outer_Full	Refer To Test Graph				Pass	
		2600	Inner_1RB_Left	Refer To Test Graph				Pass
			Edge_1RB_Left	Refer To Test Graph				Pass



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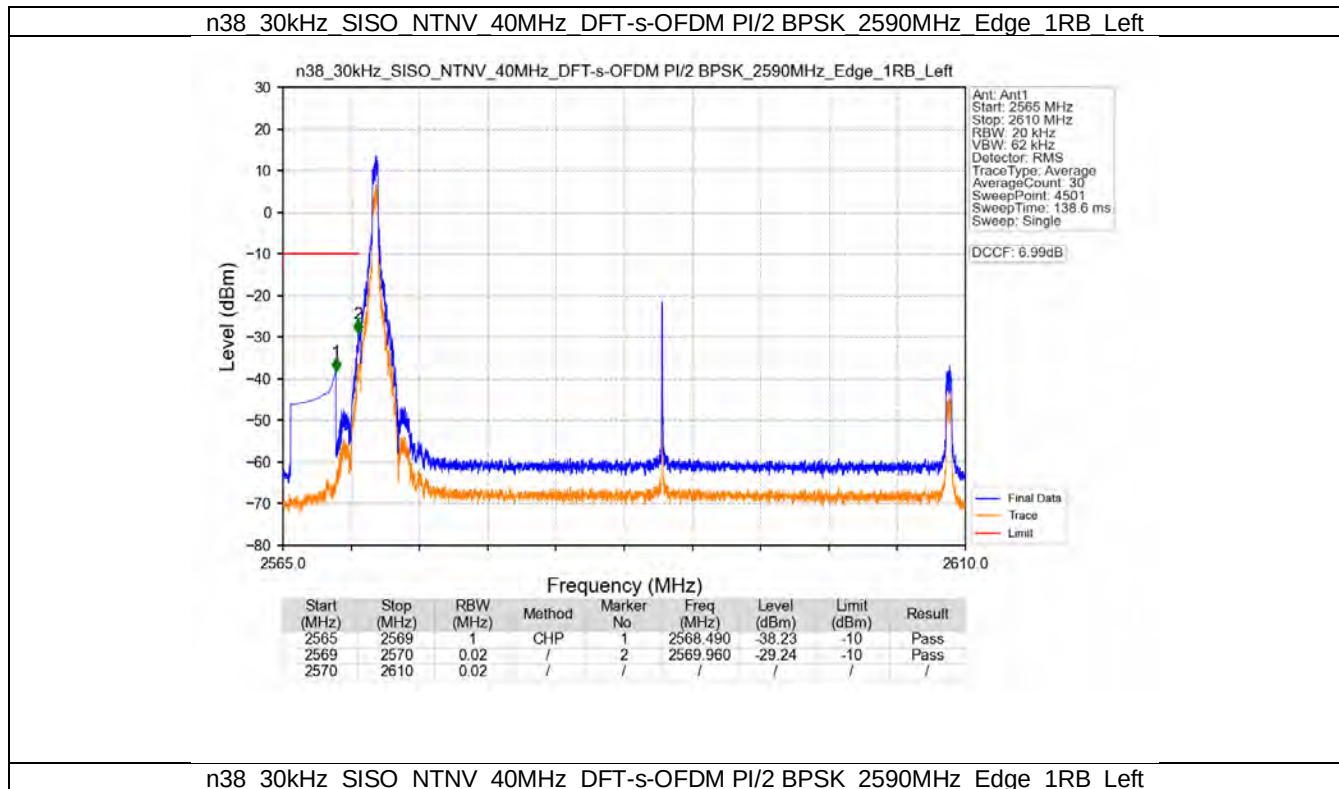
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5.3.2 Test Graph



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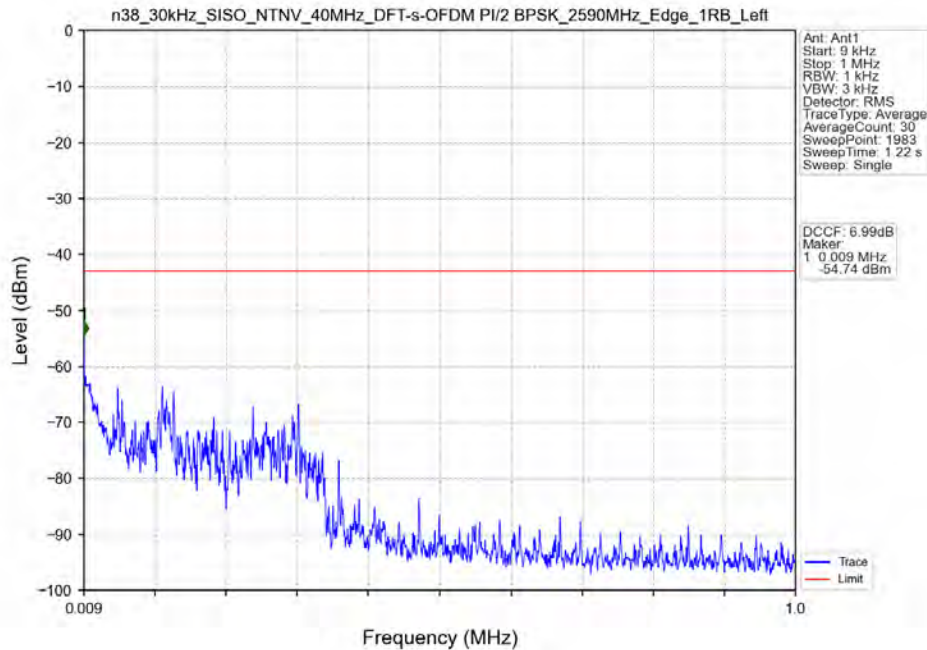


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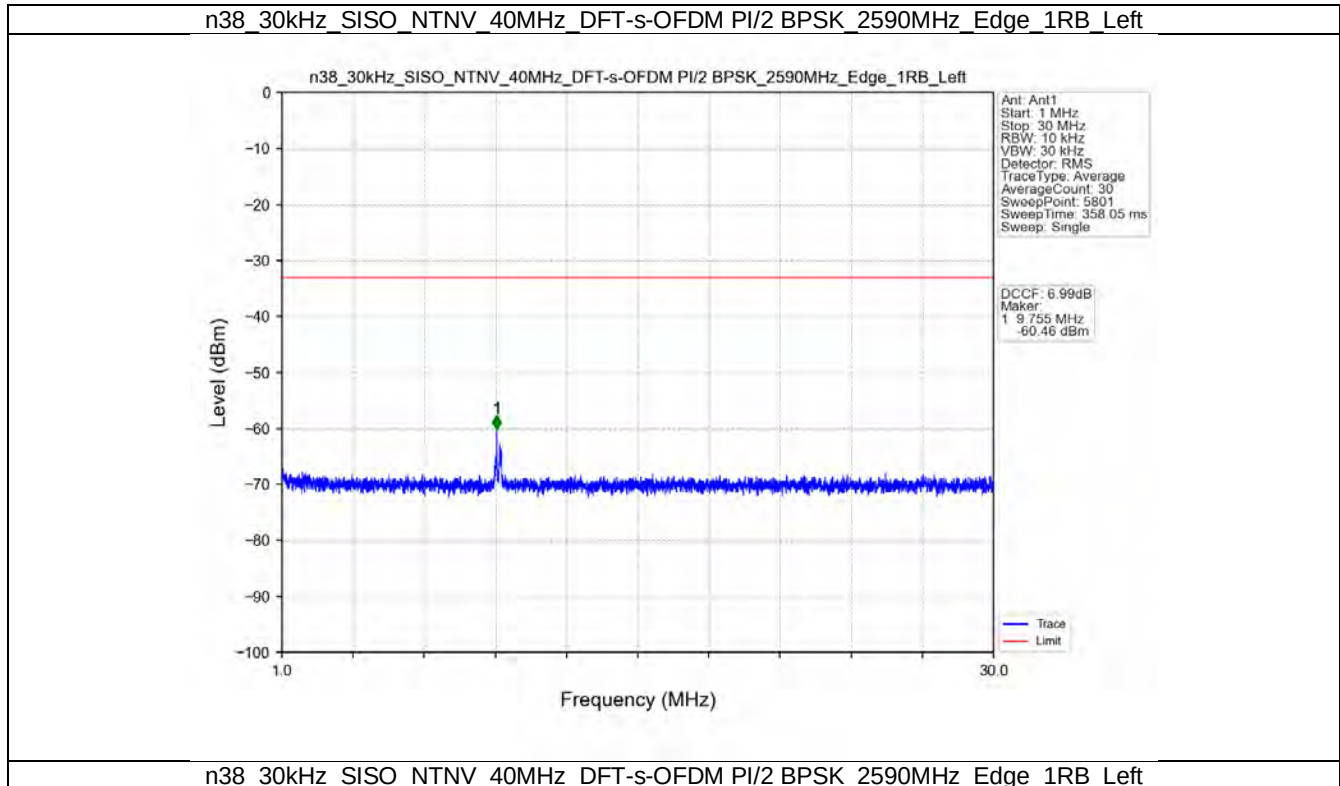


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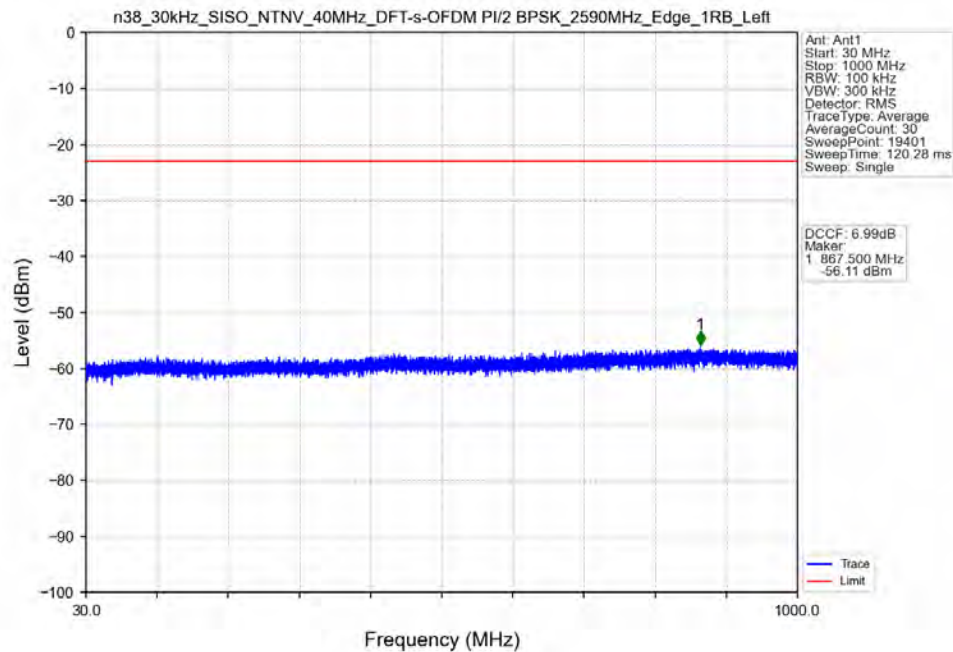


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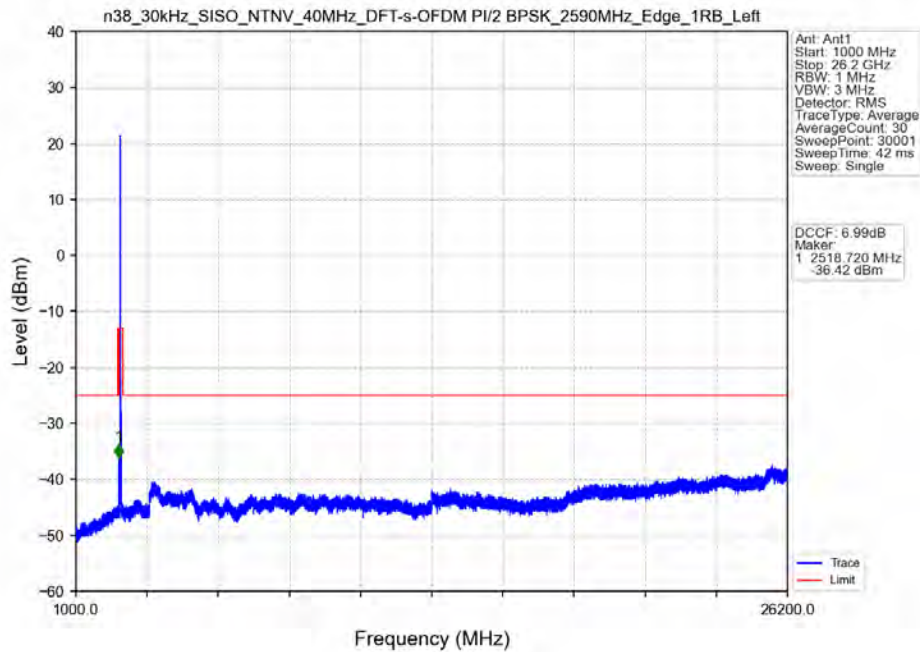
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2590MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2590MHz_Outer_Full



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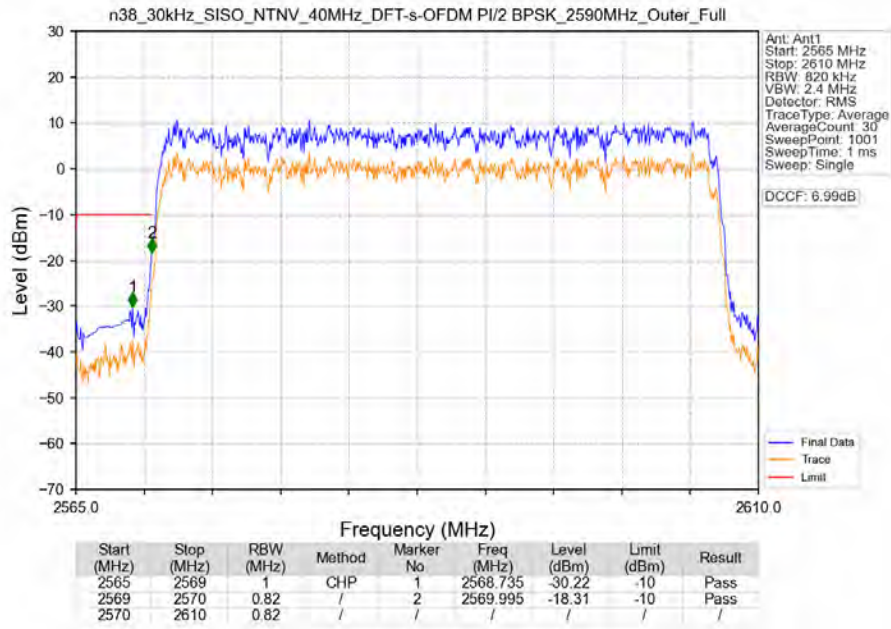


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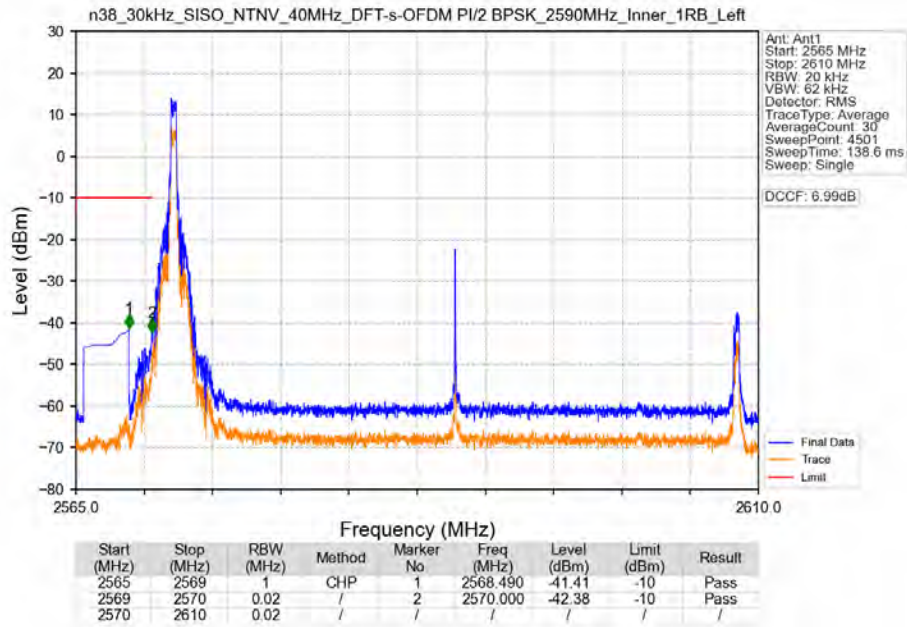
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2590MHz_Inner_1RB_Left



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Edge_1RB_Left



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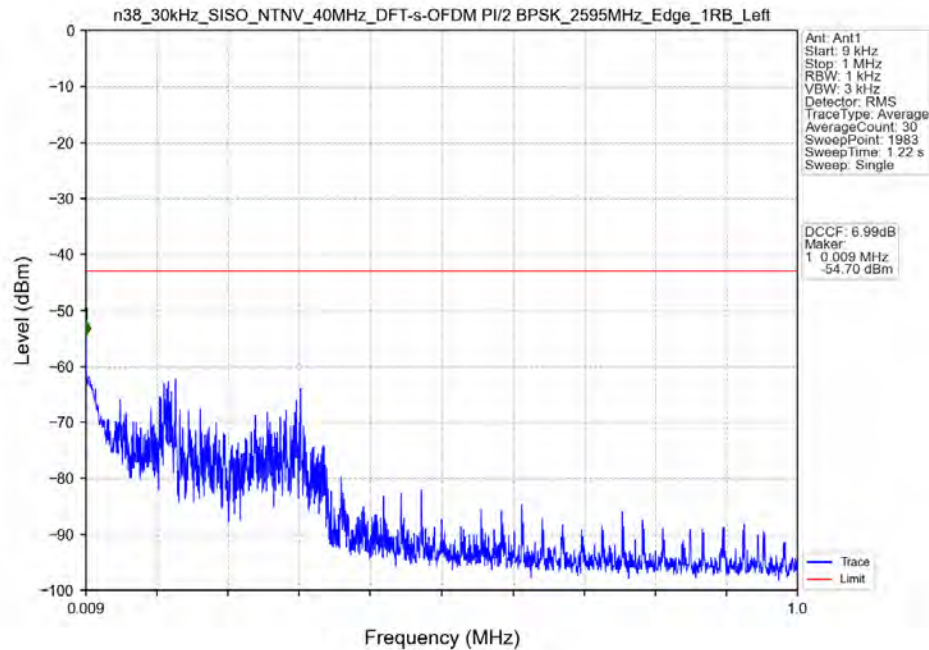


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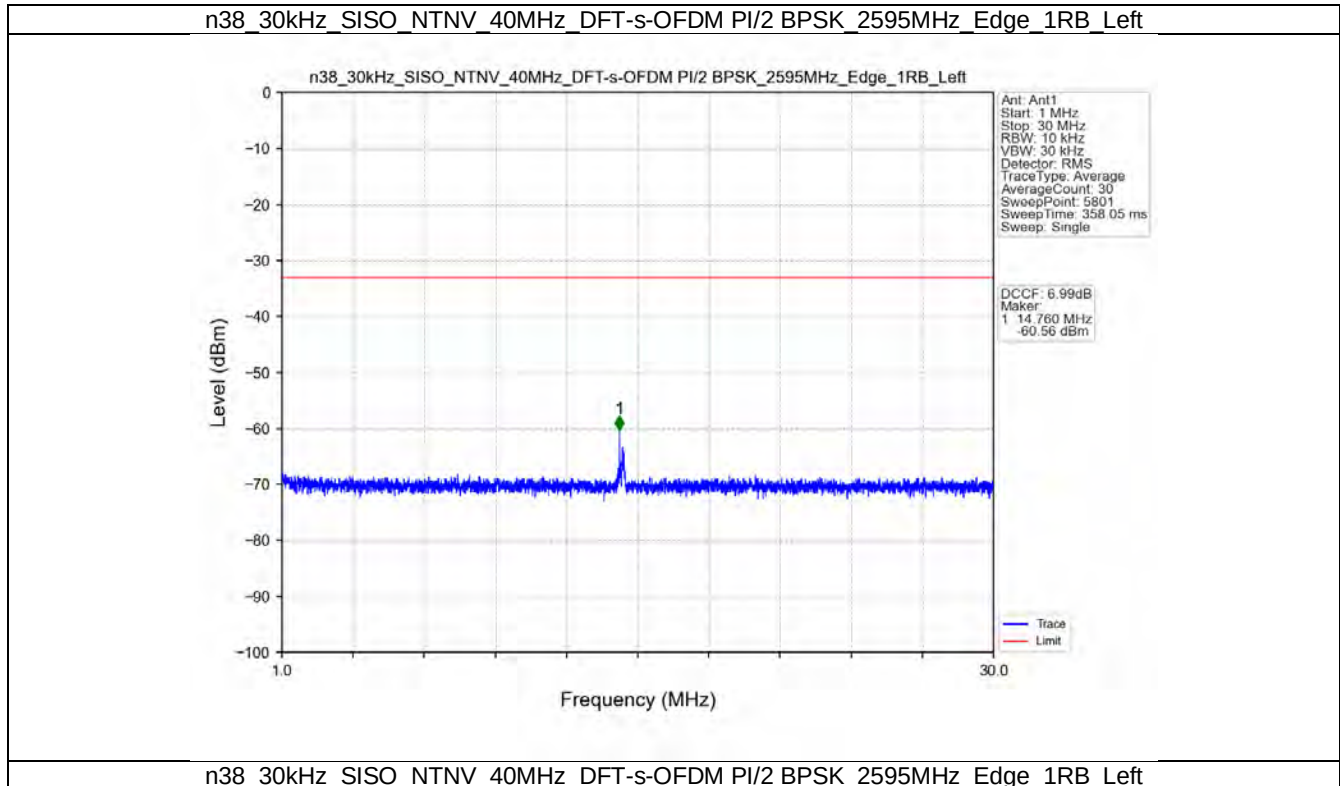


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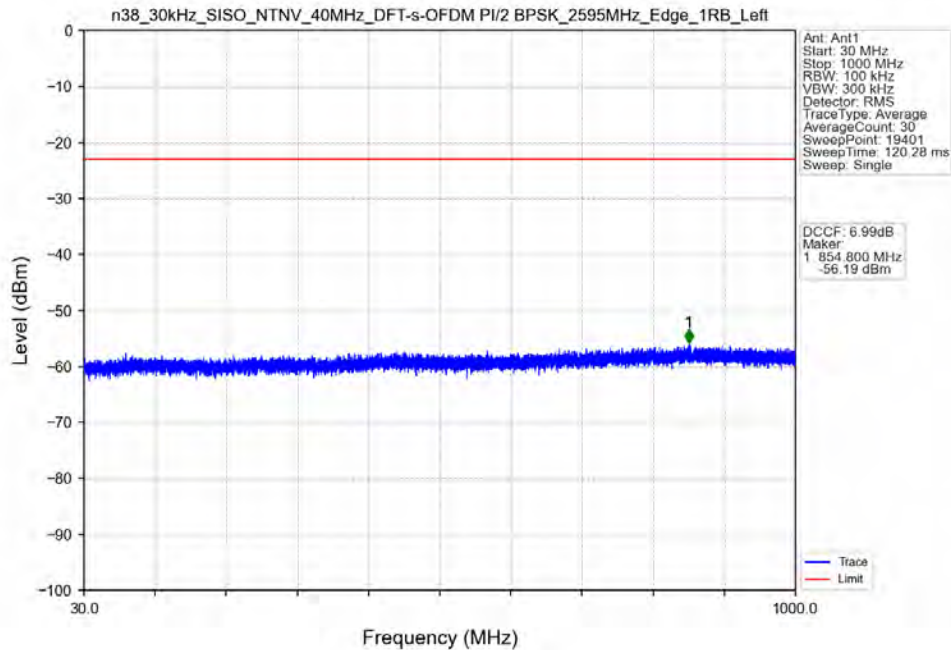


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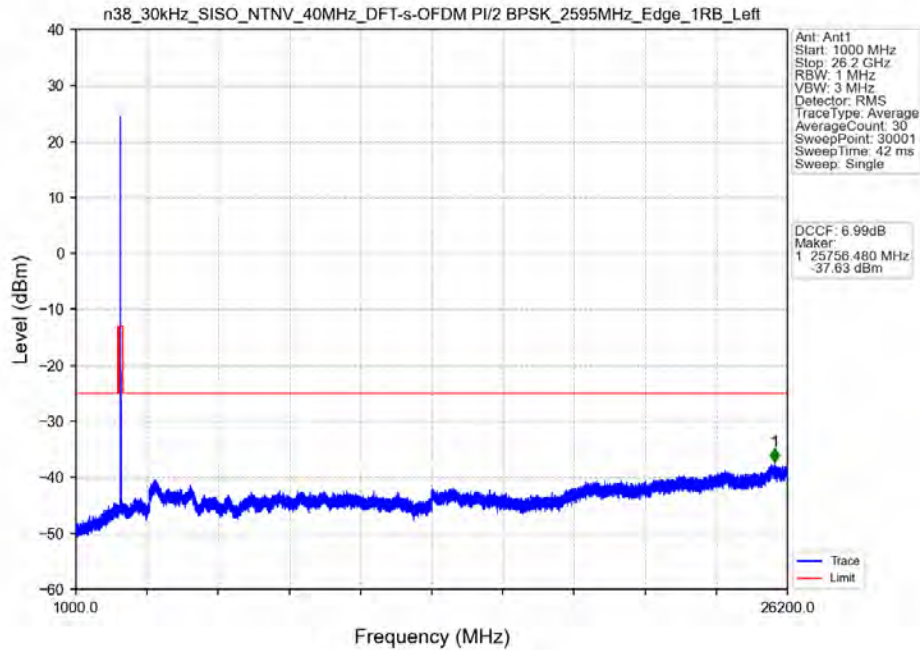
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2600MHz_Edge_1RB_Right



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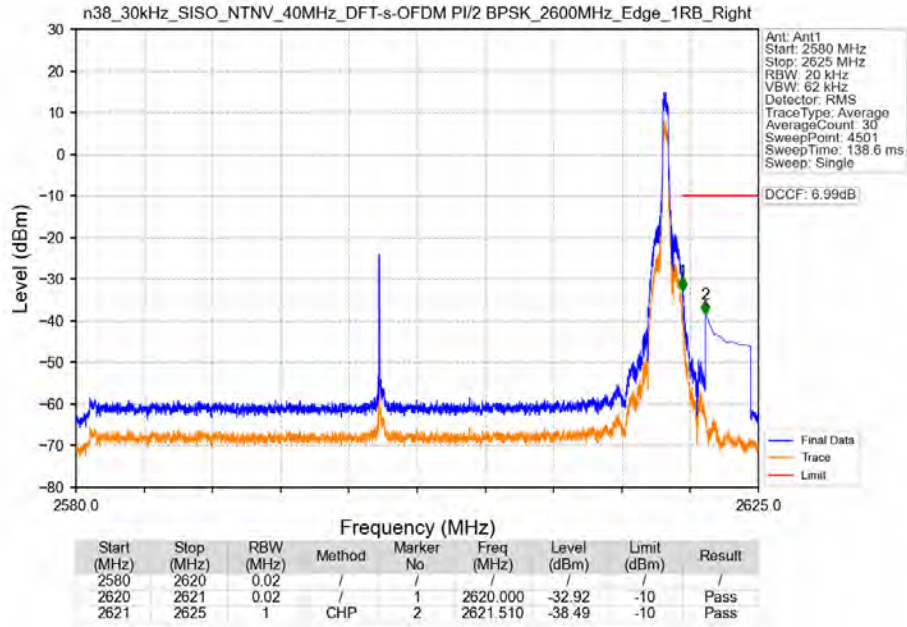


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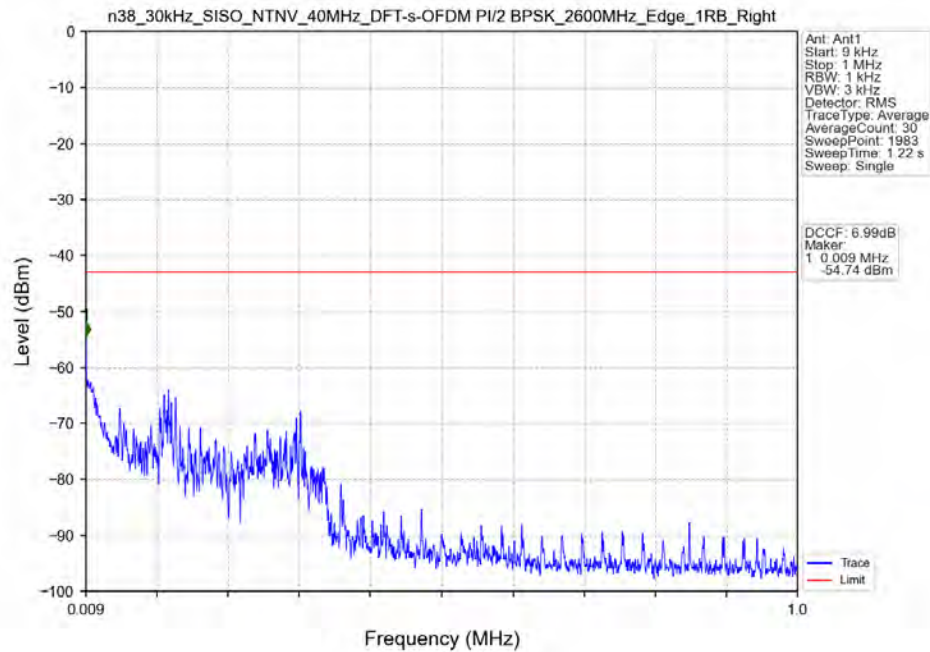
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2600MHz_Edge_1RB_Right



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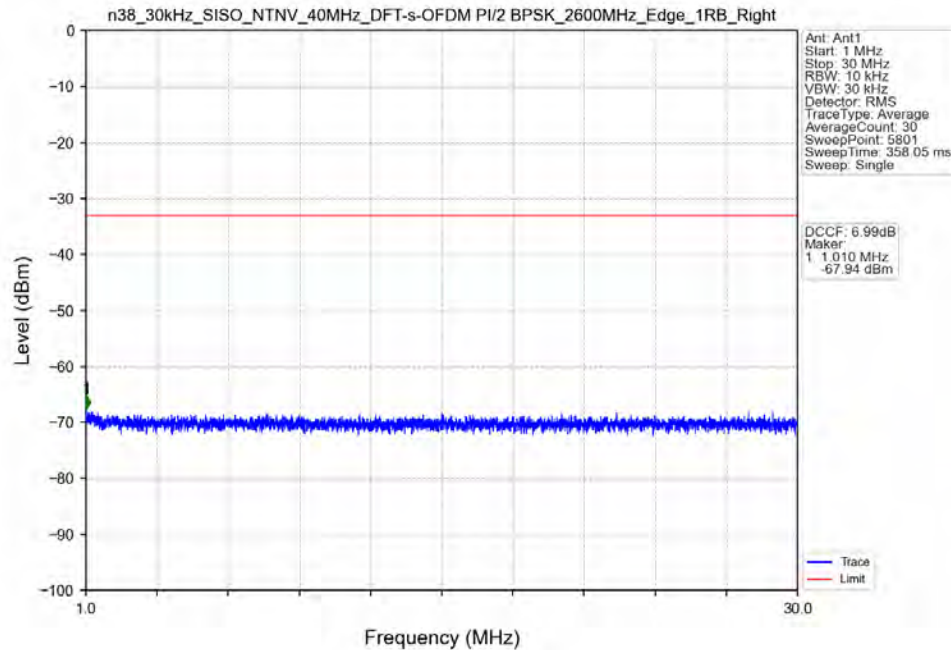


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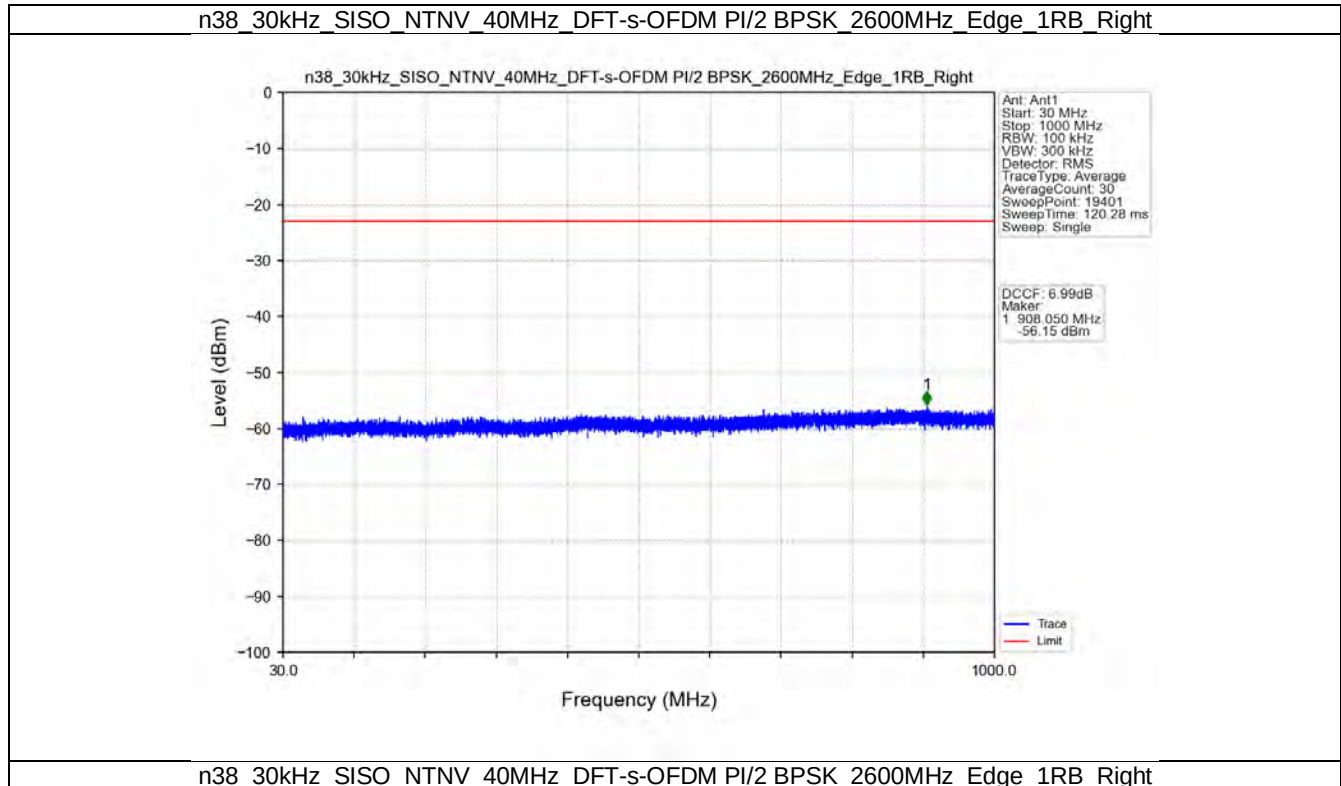


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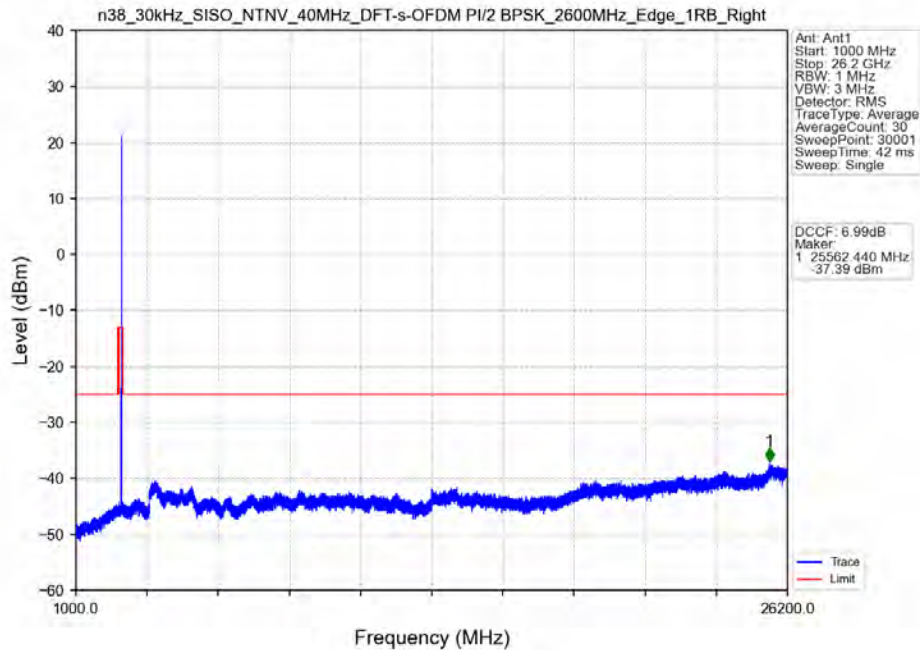


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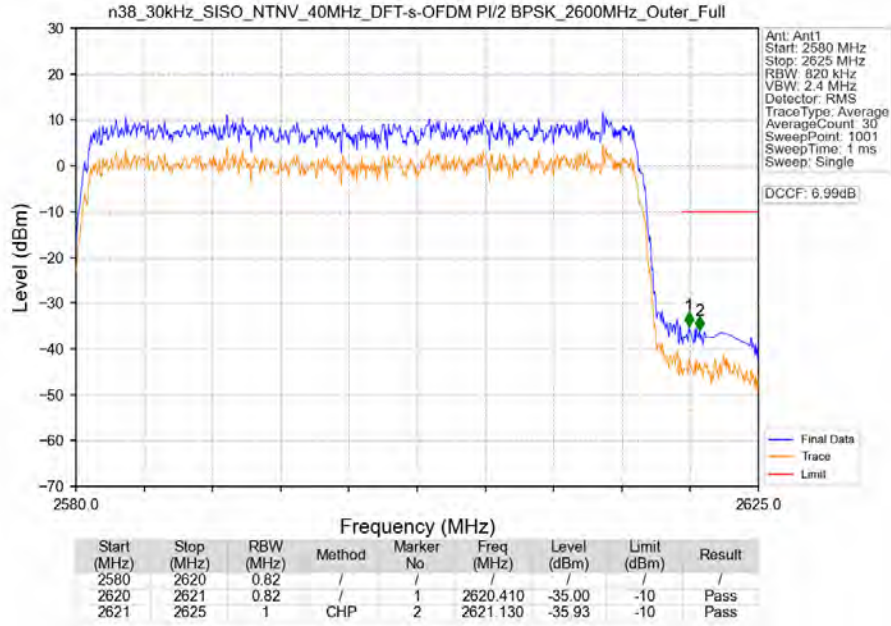
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_2600MHz_Inner_1RB_Right



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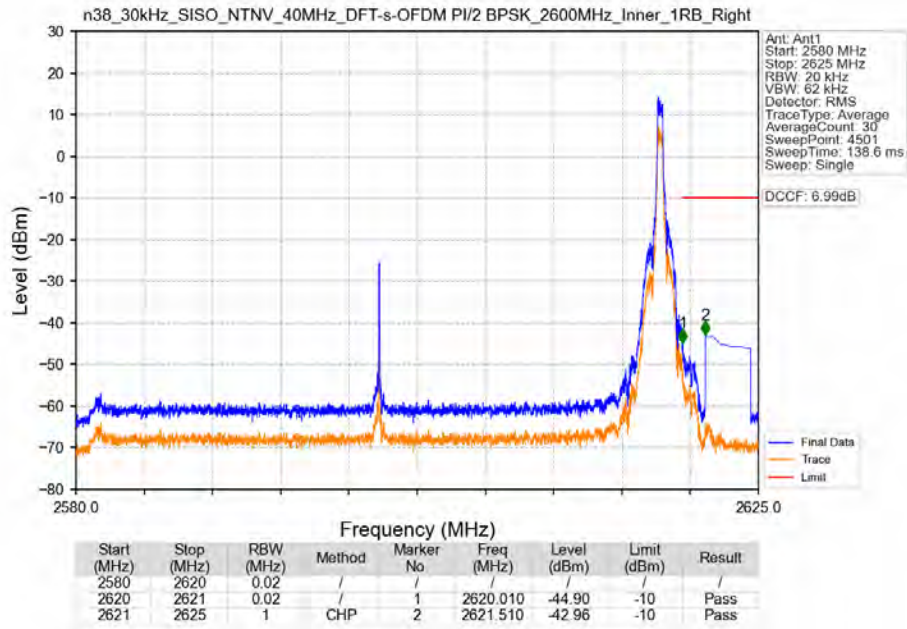


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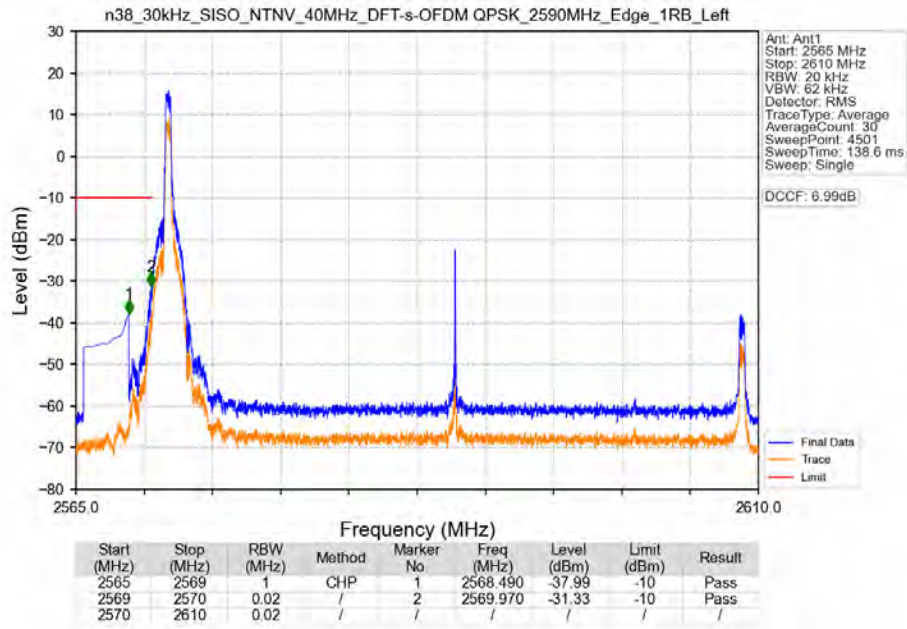
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_2590MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_2590MHz_Edge_1RB_Left



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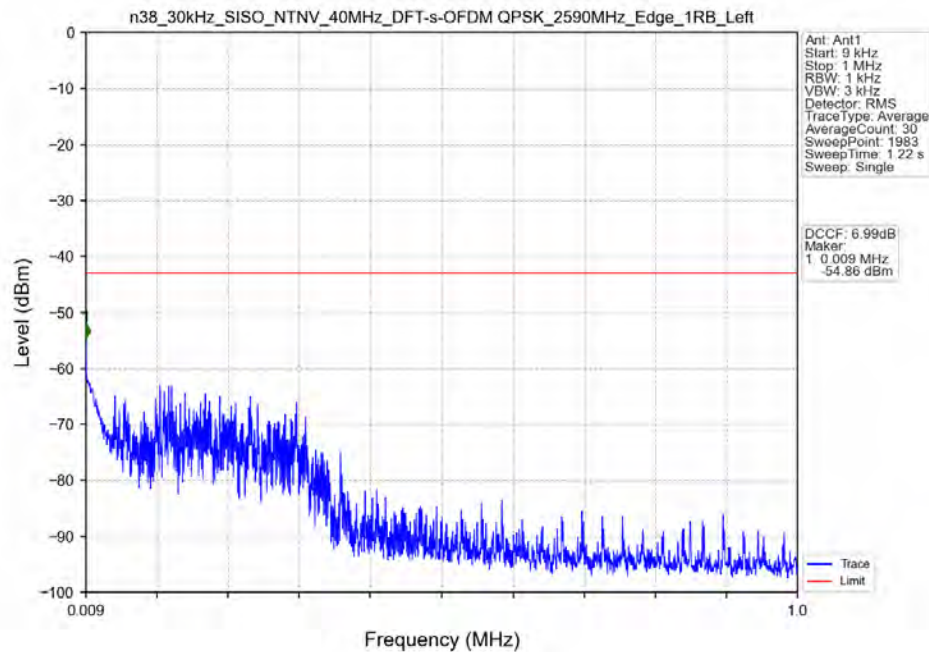


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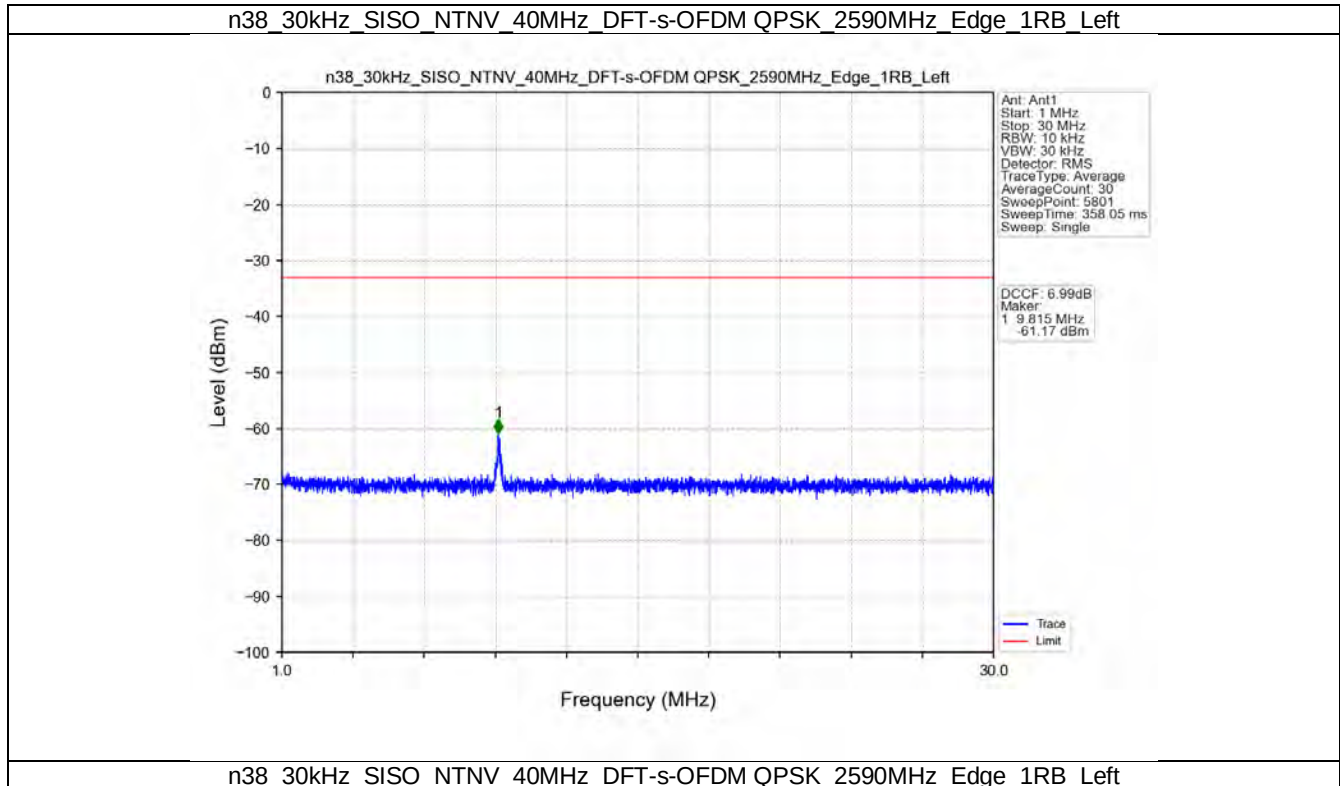


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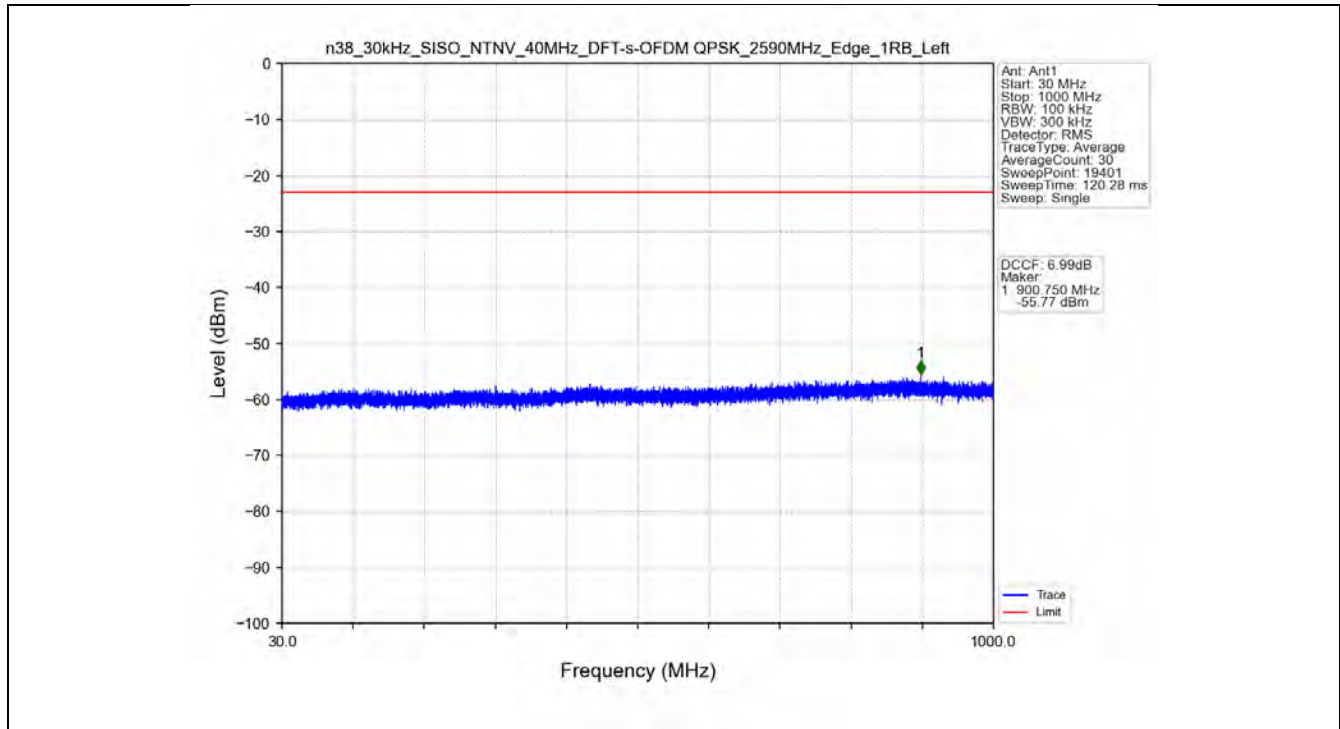


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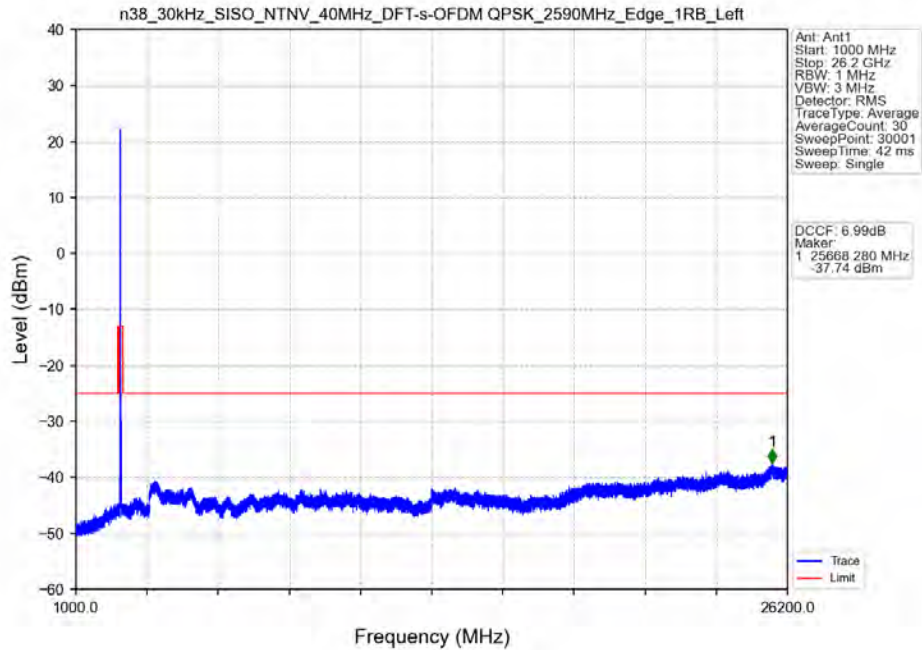
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2590MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2590MHz_Outer_Full



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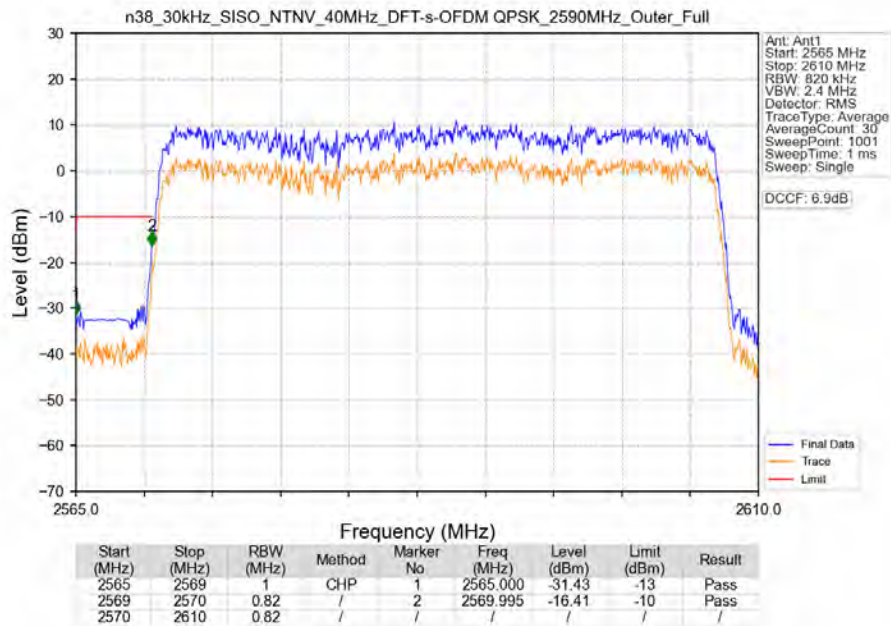


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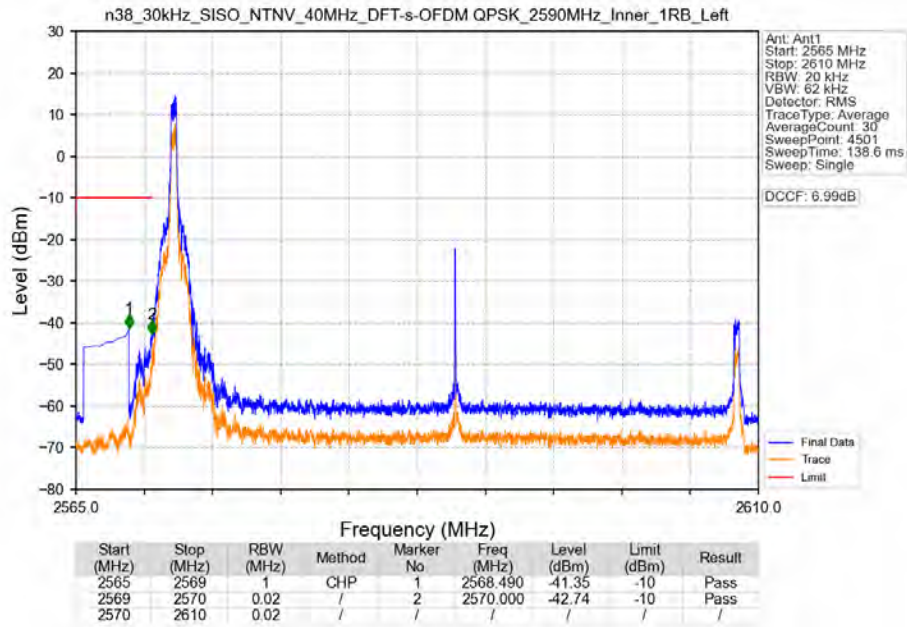
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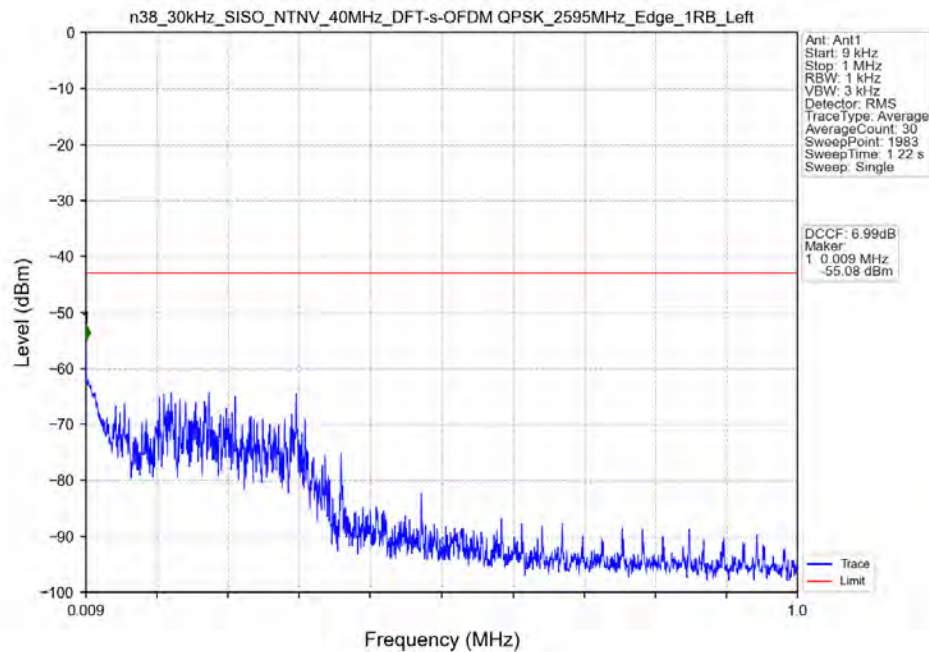


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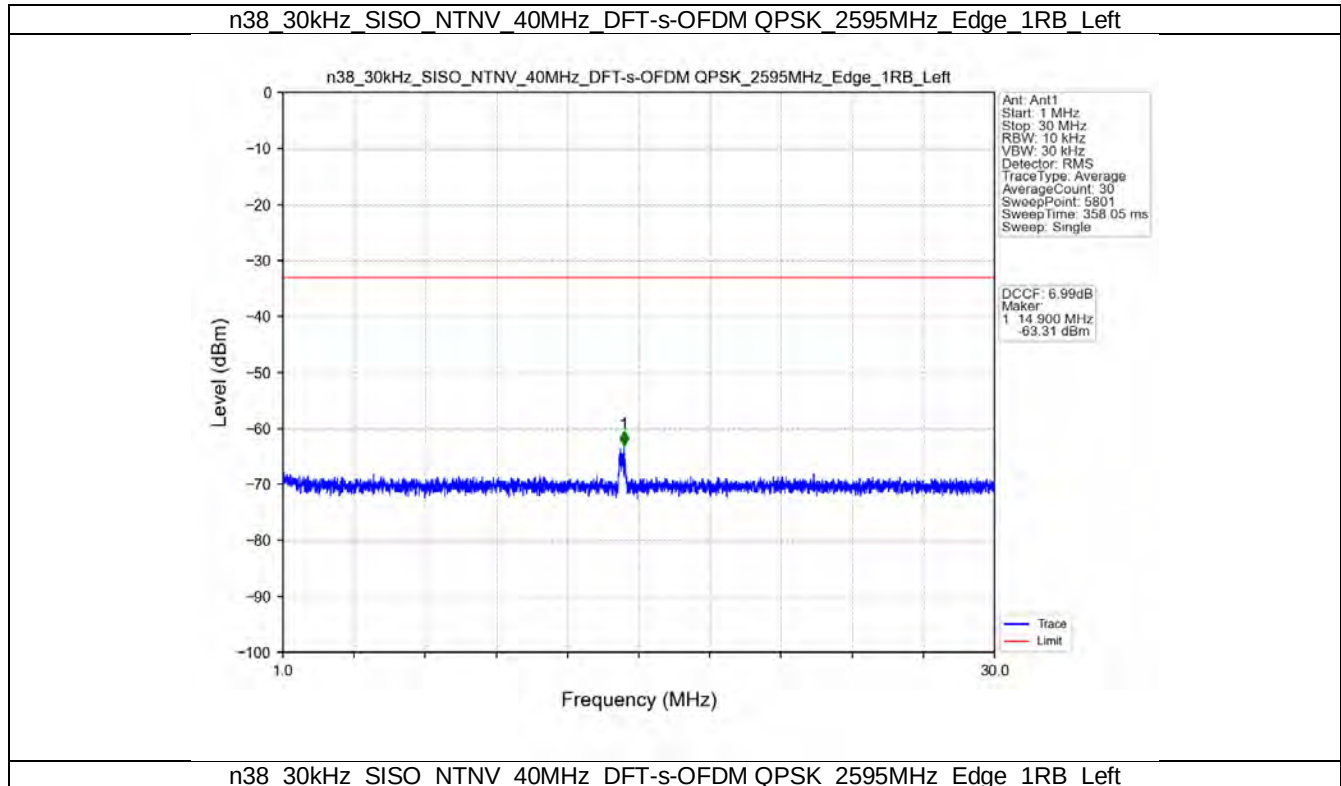


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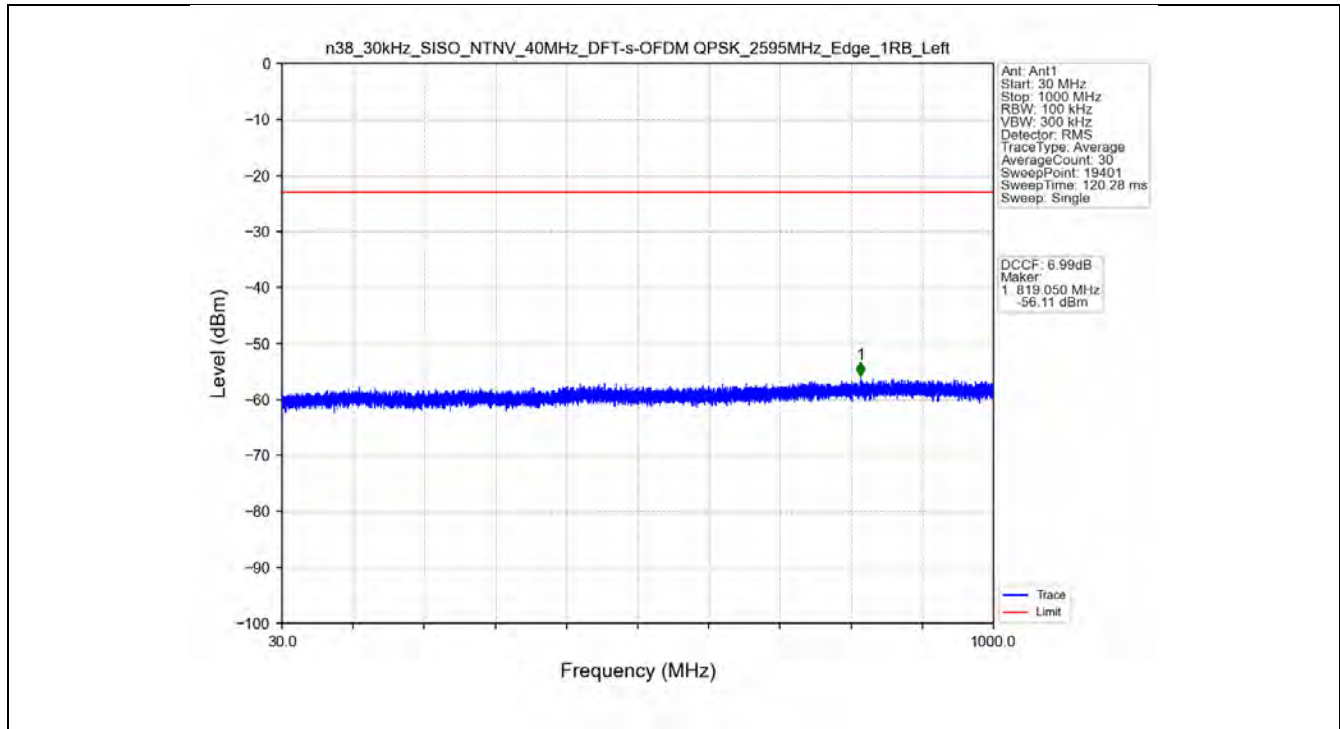


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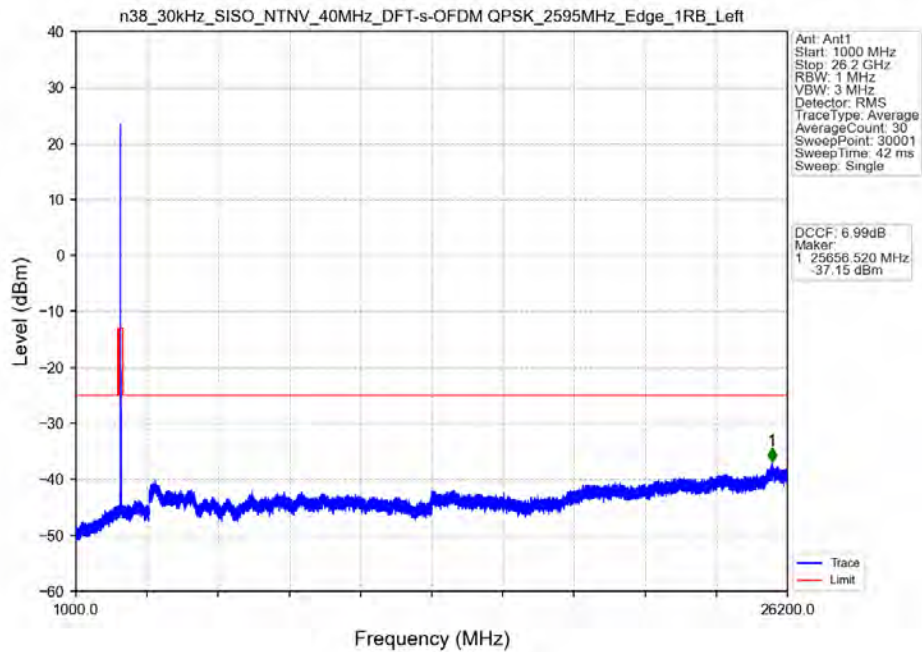
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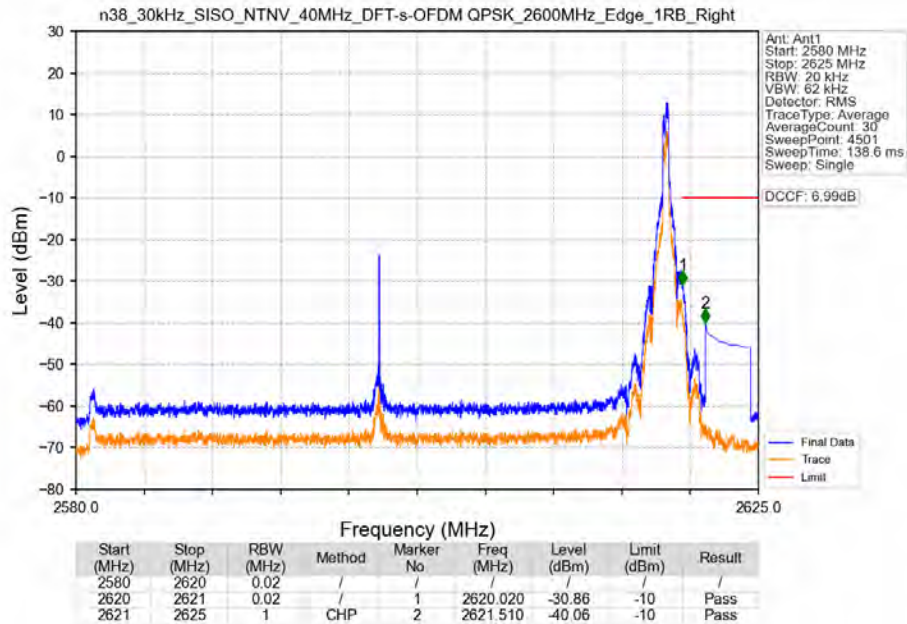


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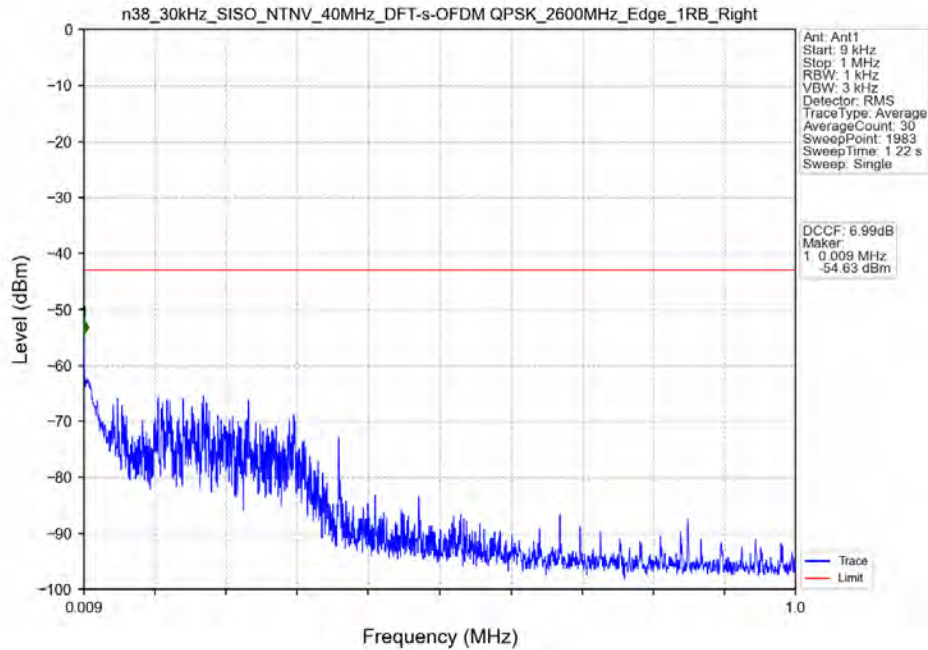
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2600MHz_Edge_1RB_Right



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2600MHz_Edge_1RB_Right



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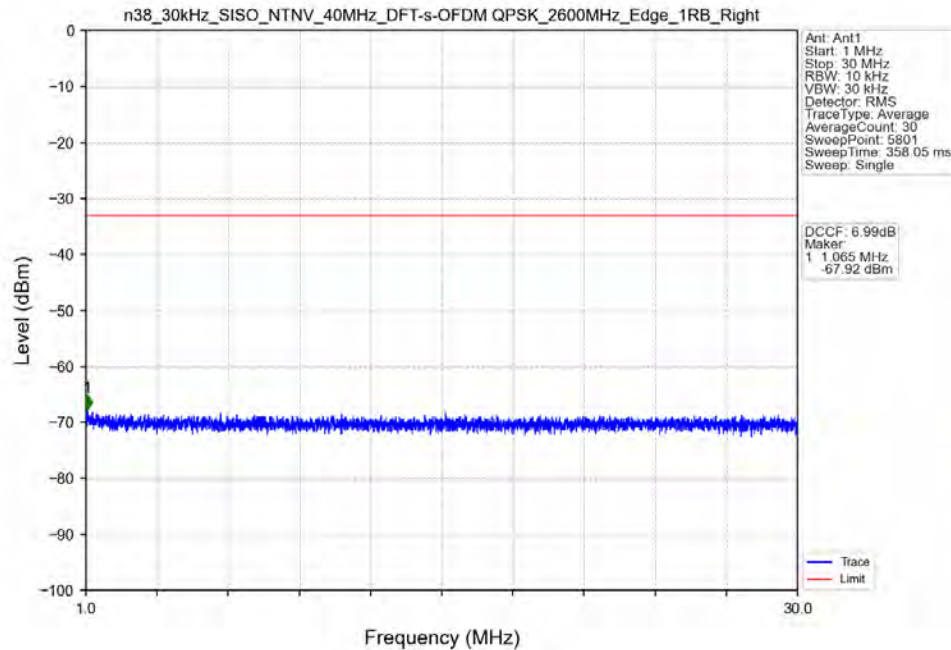


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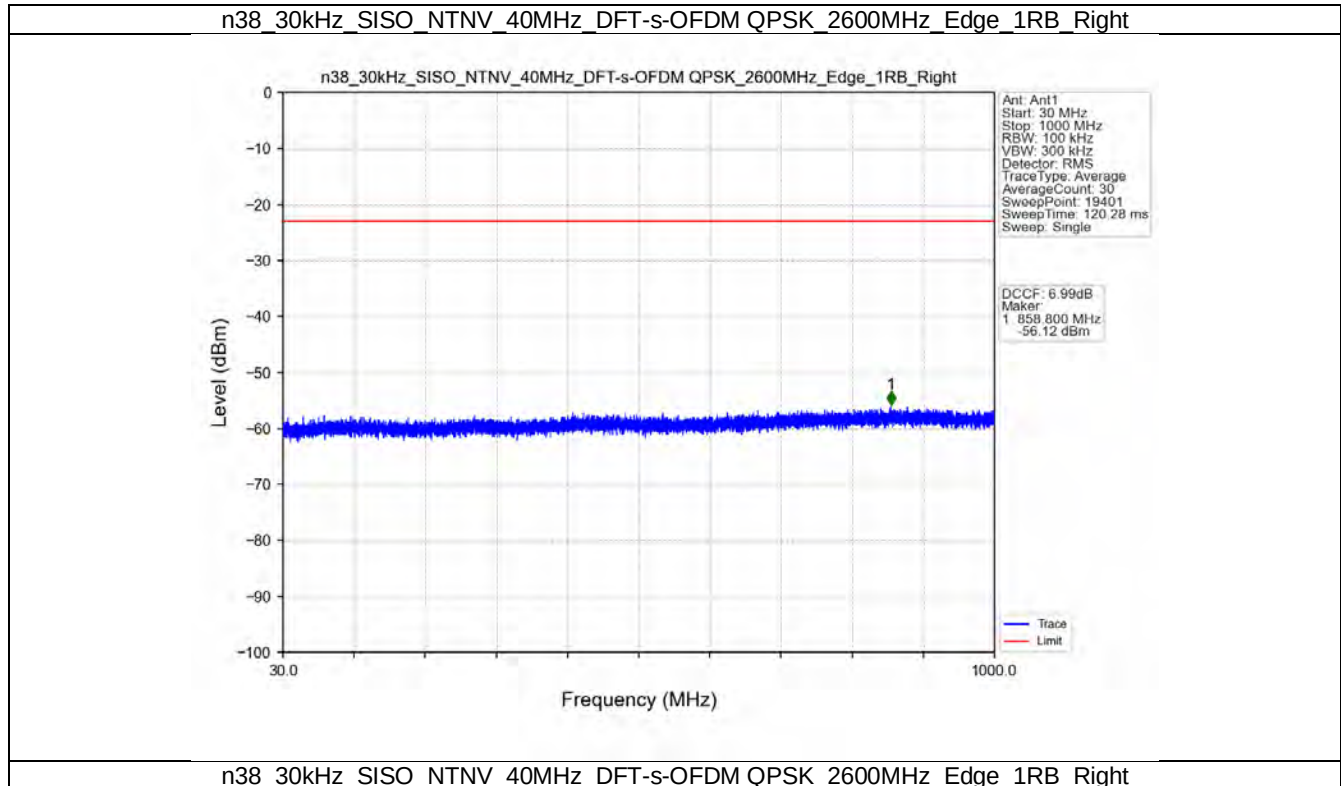


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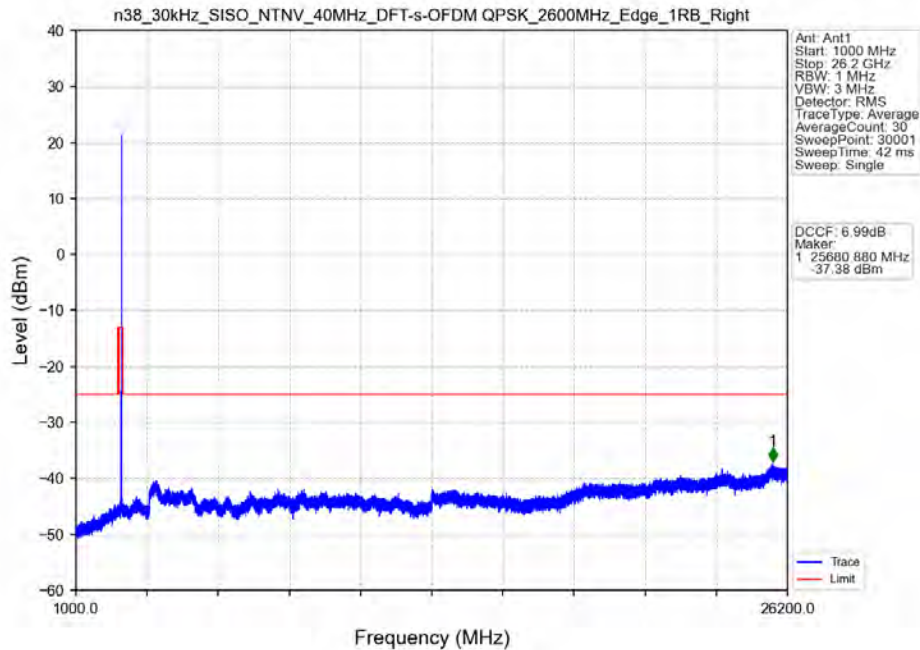


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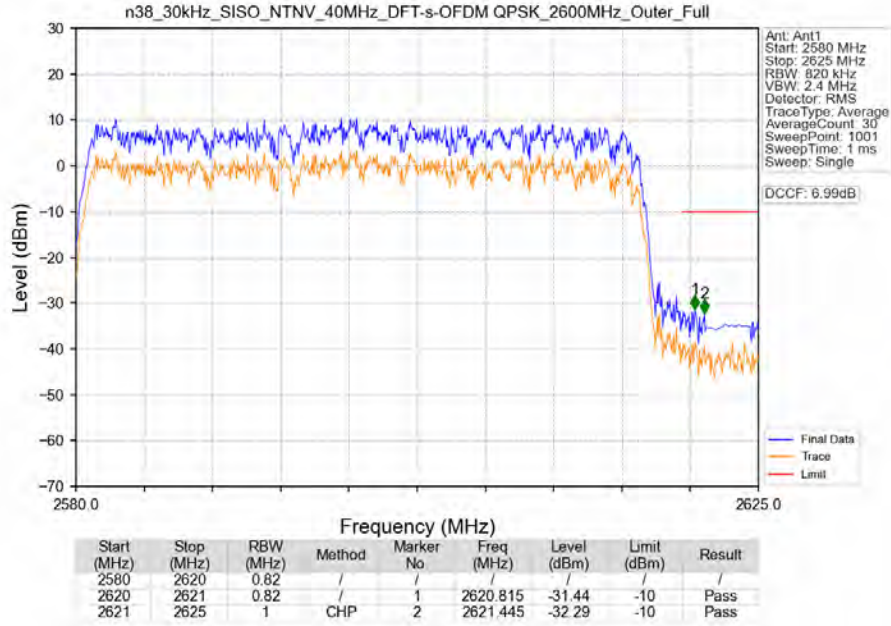
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n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2600MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2600MHz_Inner_1RB_Right



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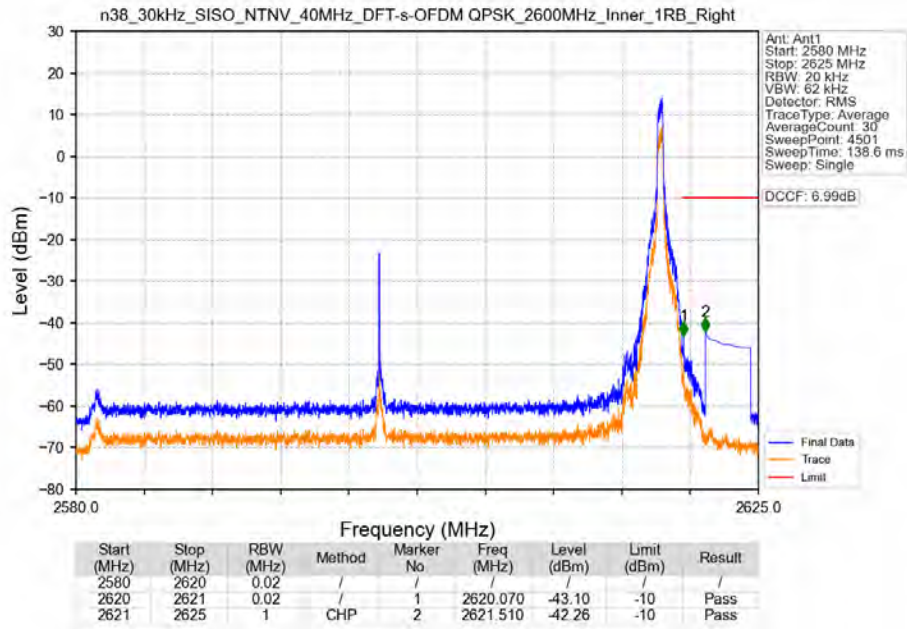


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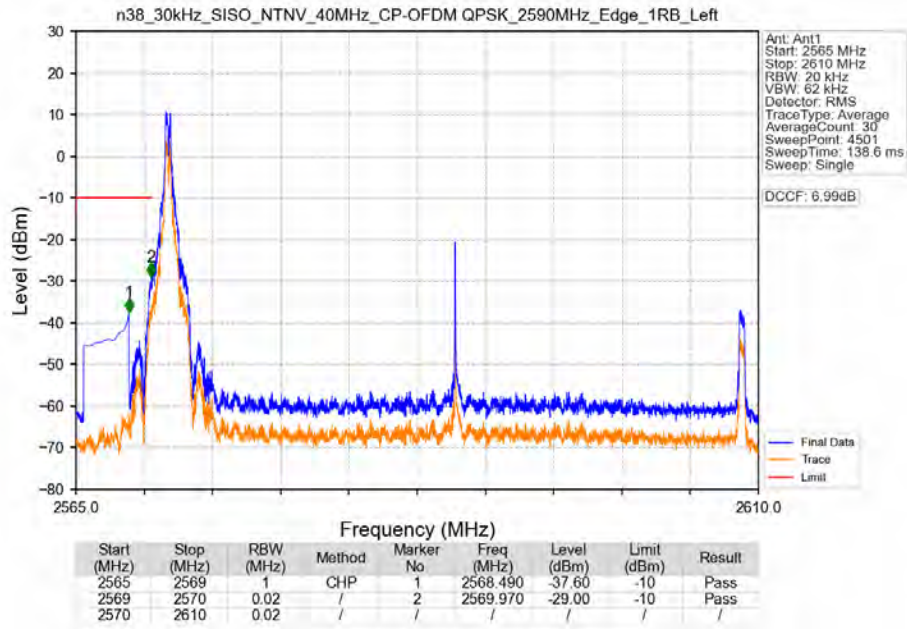
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2590MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2590MHz_Edge_1RB_Left



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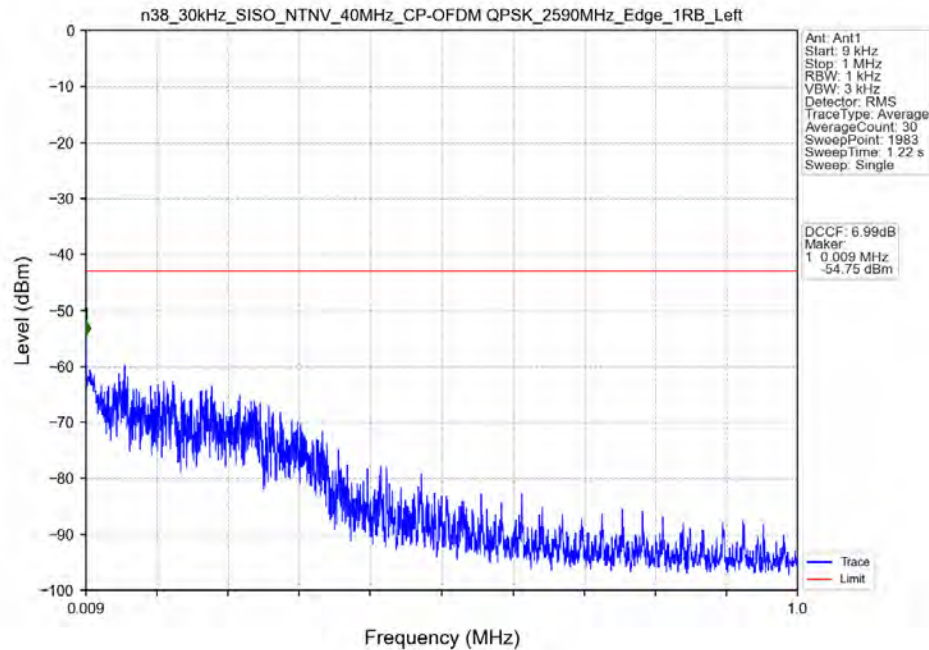


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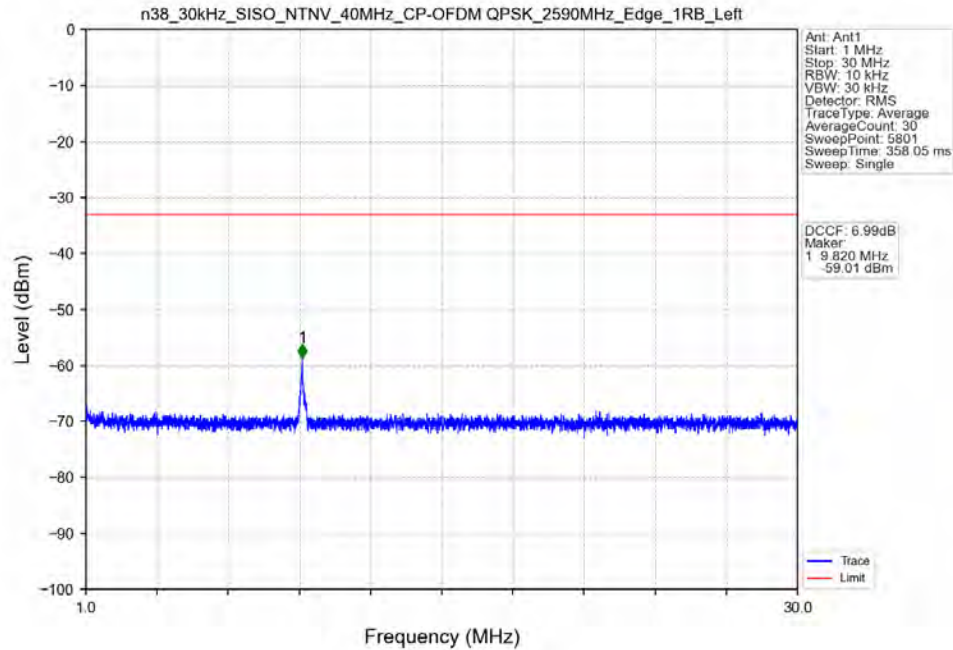
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2590MHz_Edge_1RB_Left



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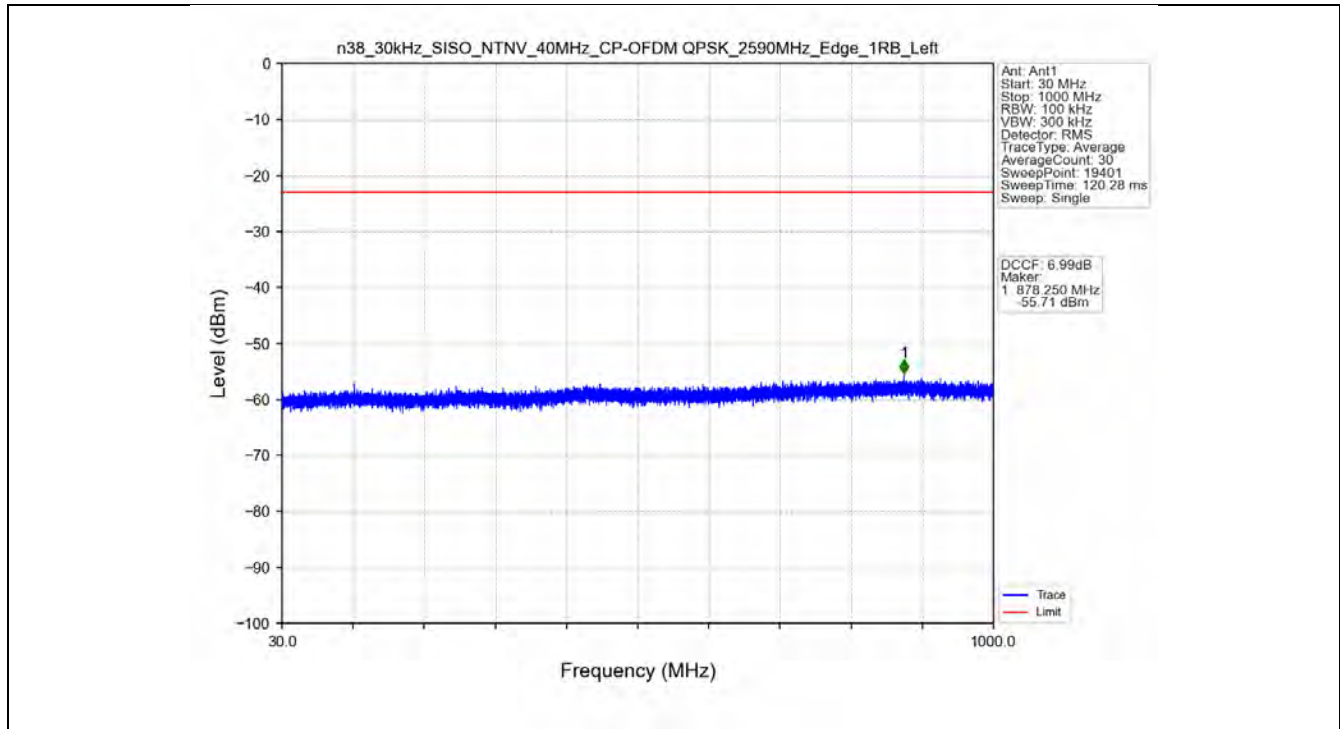


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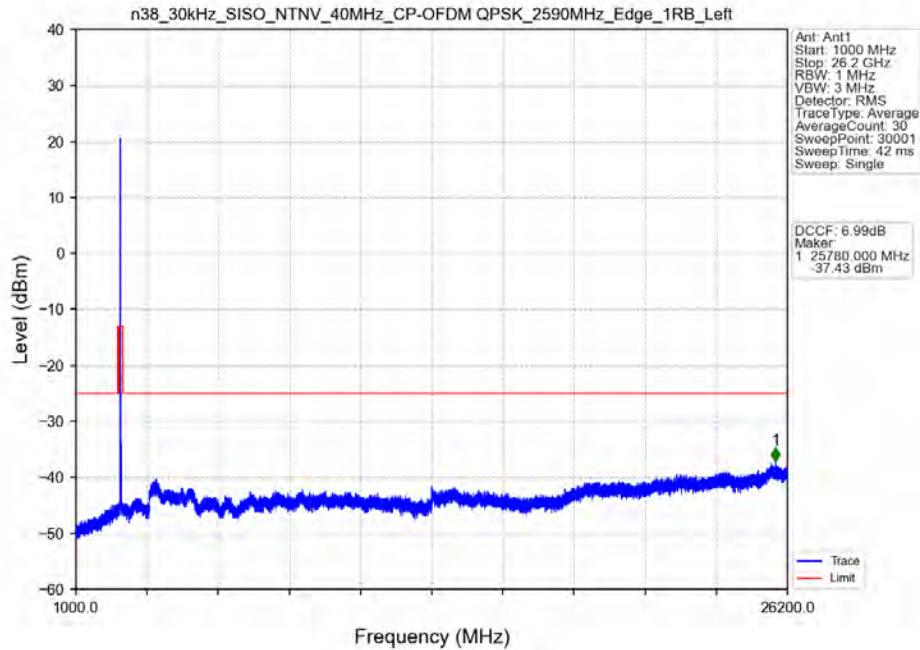
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2590MHz_Outer_Full



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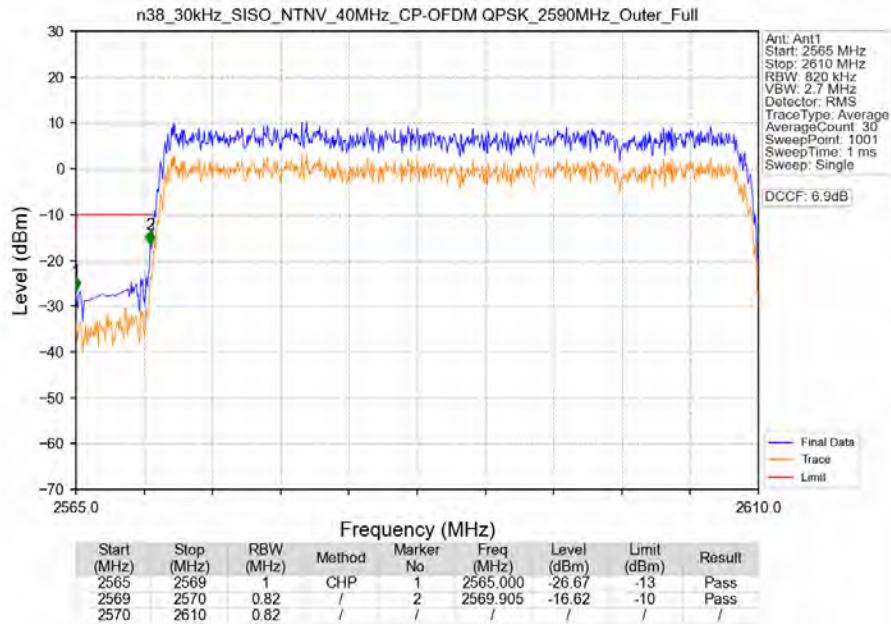


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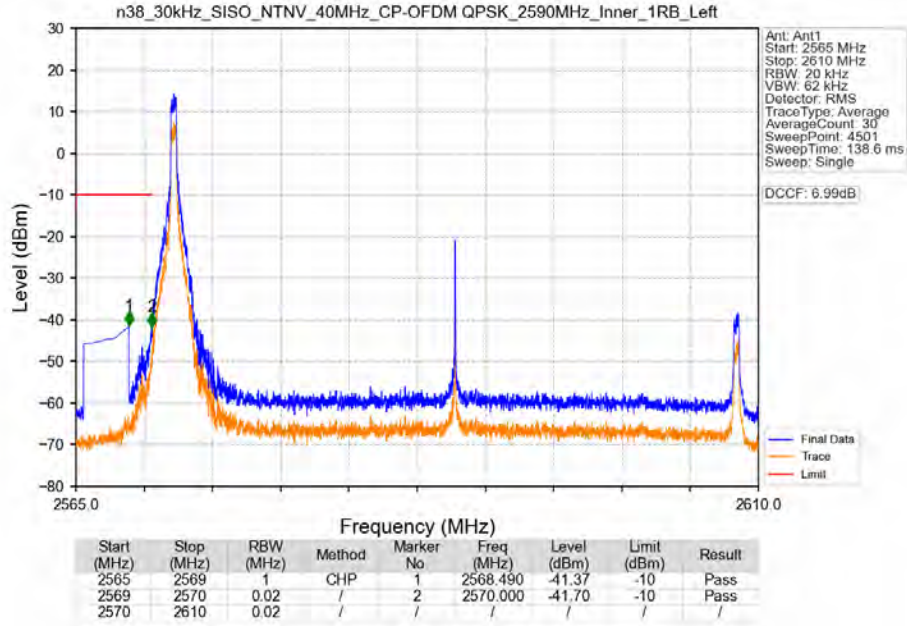
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2595MHz_Edge_1RB_Left



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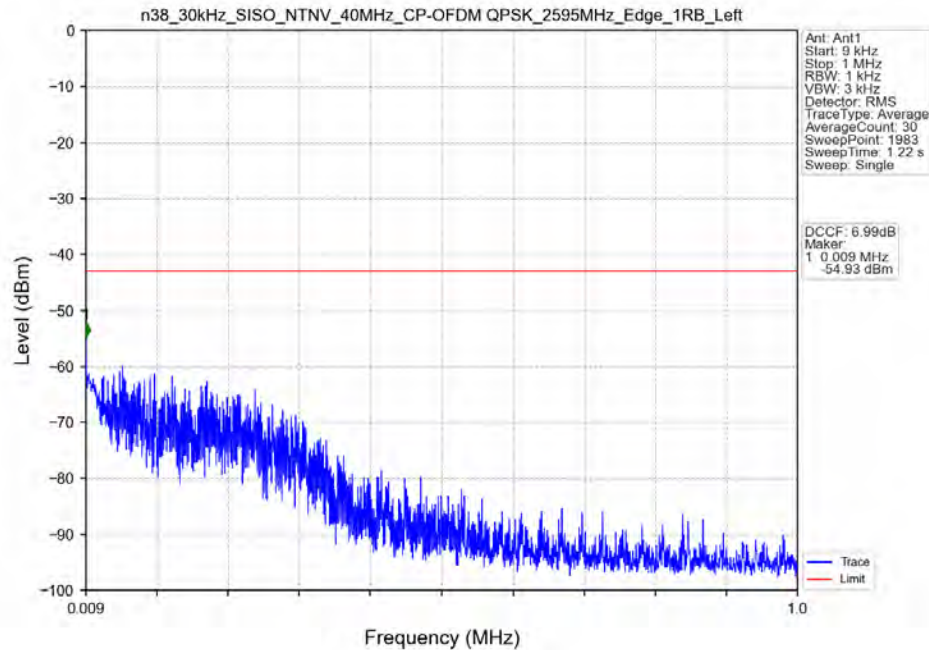


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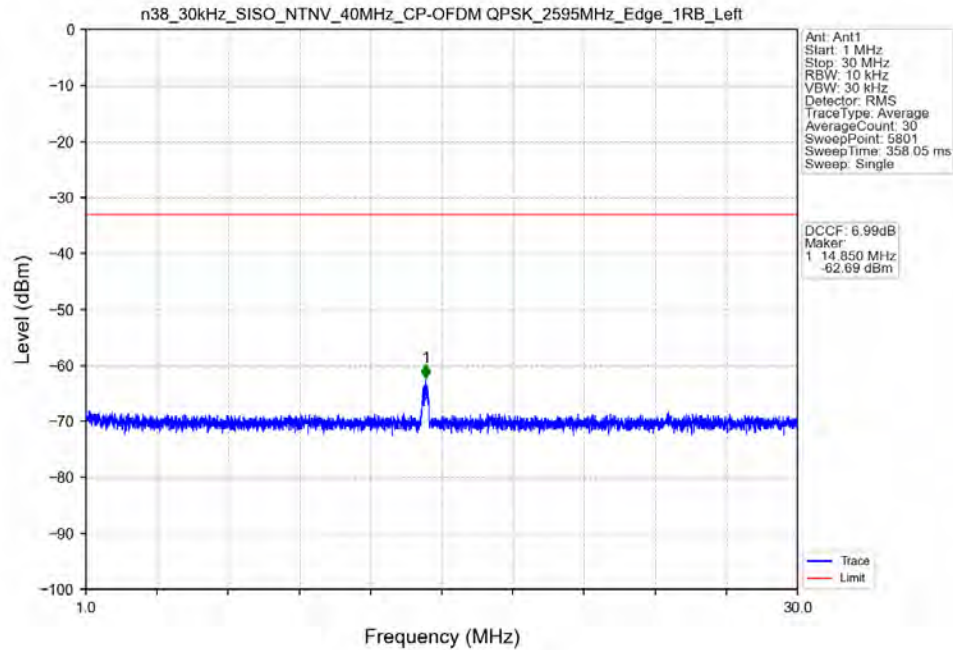
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2595MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2595MHz_Edge_1RB_Left



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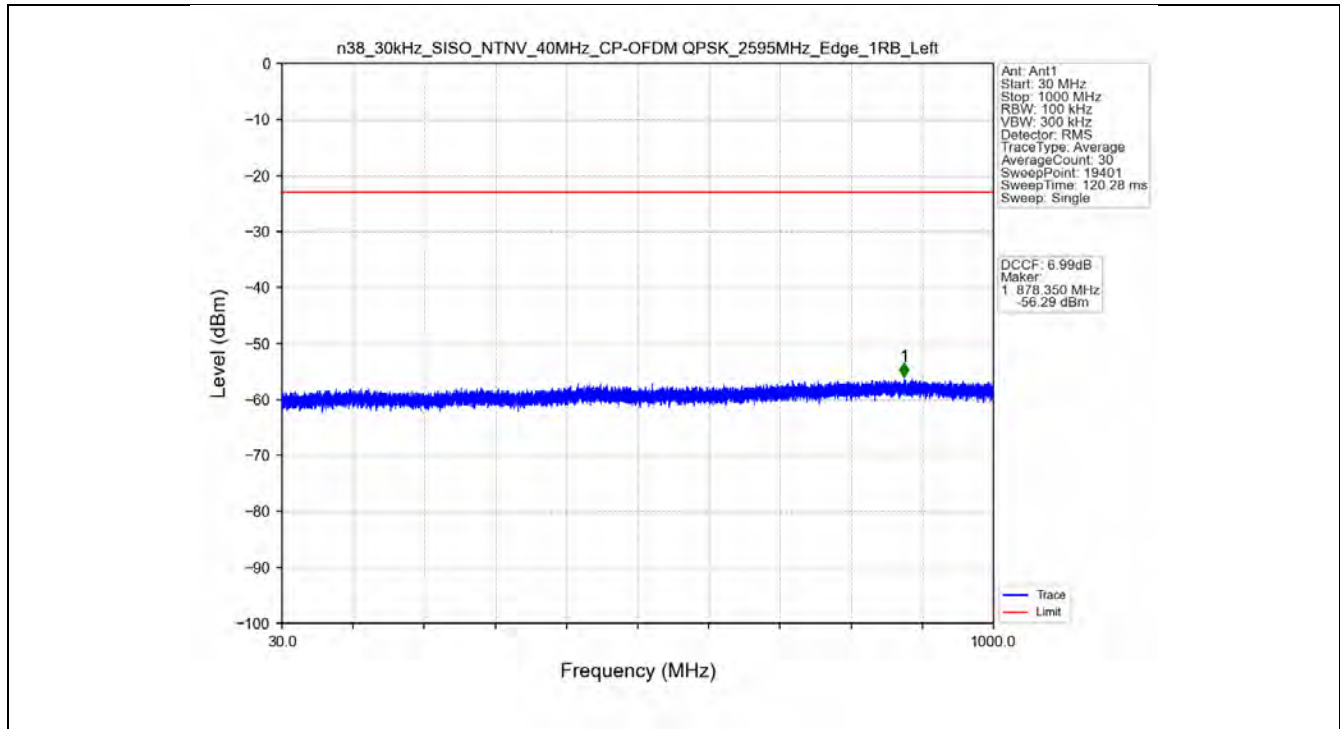


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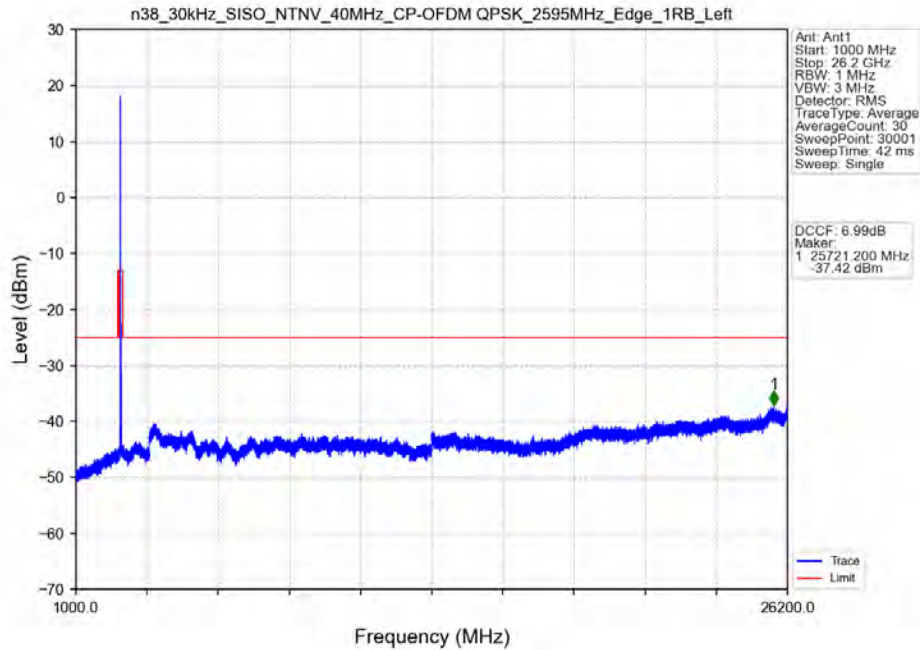
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2595MHz_Edge_1RB_Left



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2600MHz_Edge_1RB_Right



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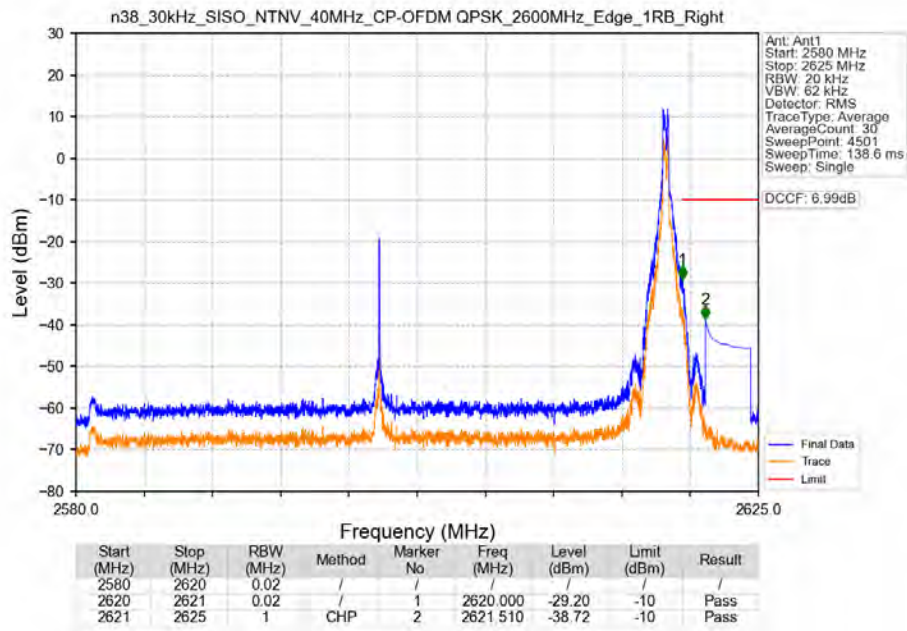


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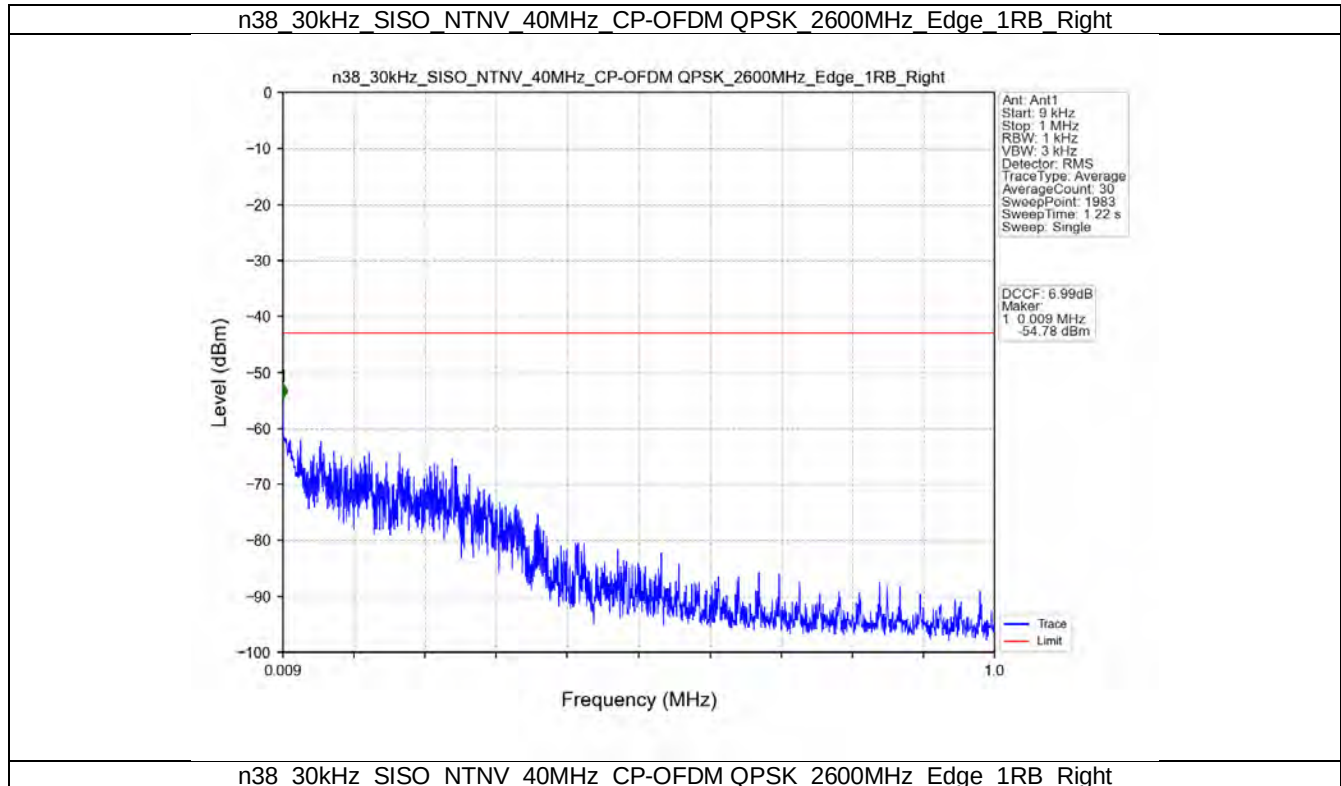


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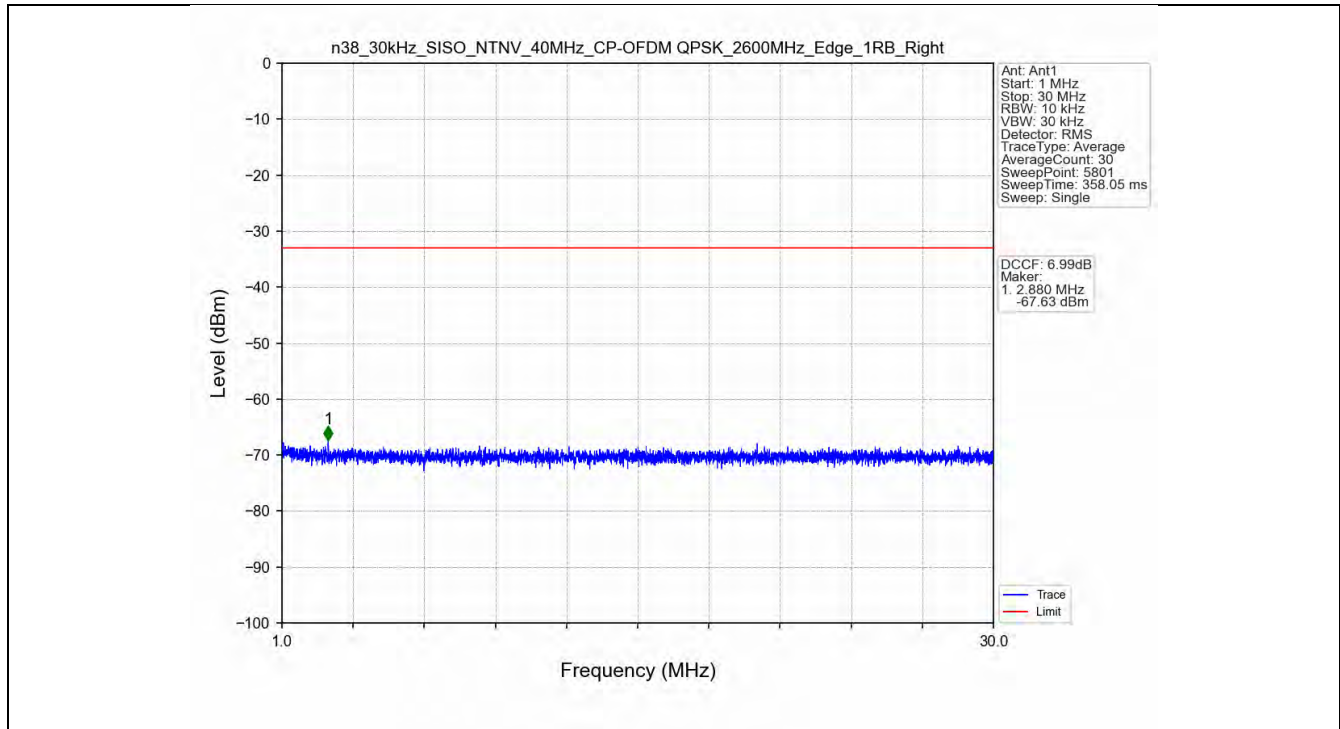


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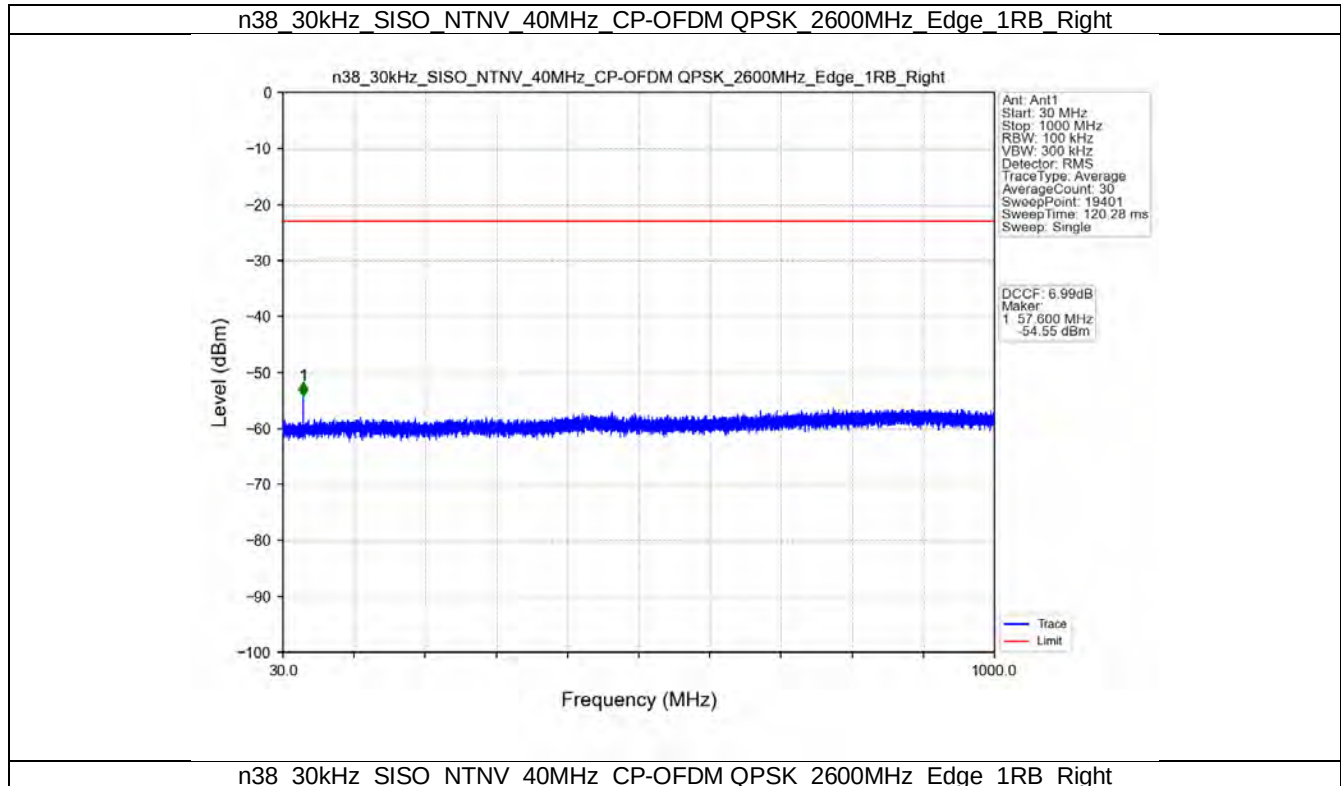


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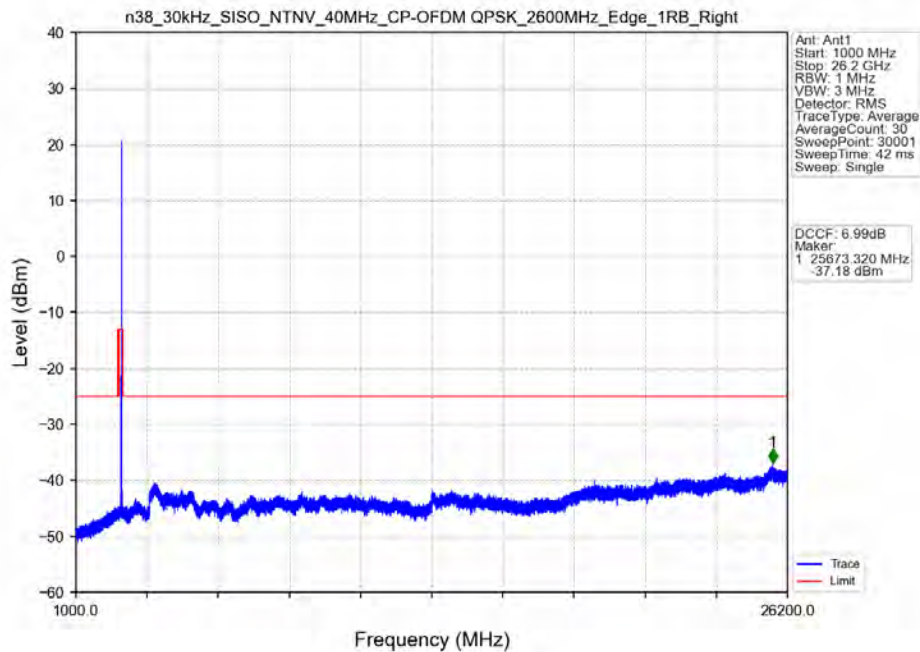


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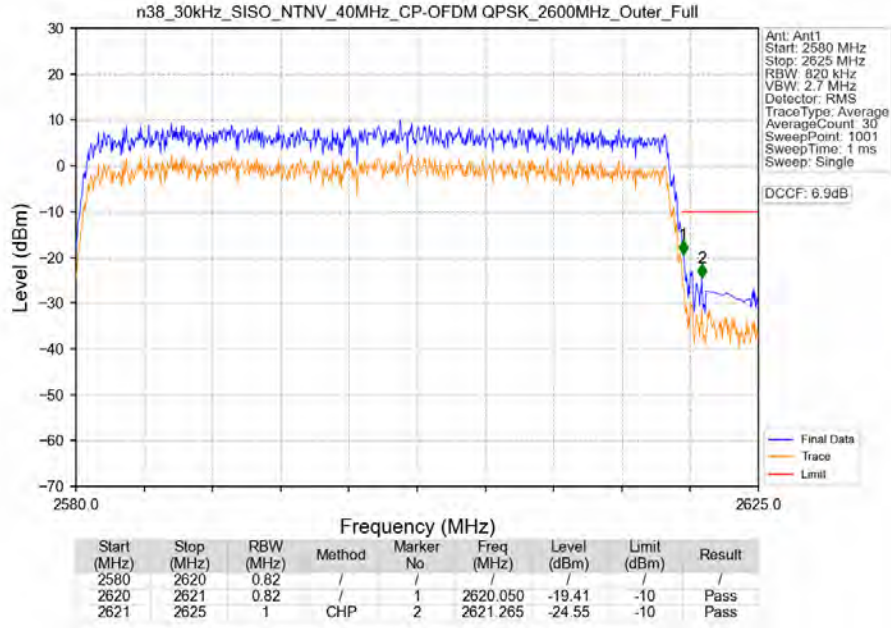
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n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2600MHz_Outer_Full



n38_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2600MHz_Inner_1RB_Right



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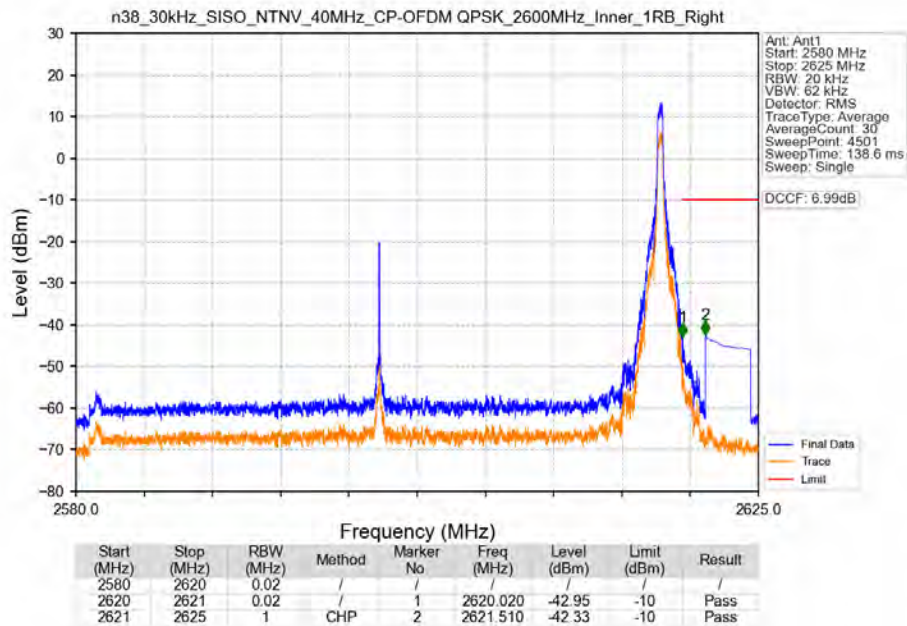


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5.4 30k_MIMO_20MHz_NTNV

5.4.1 Test Result

5G NR n38 SCS=30kHz MIMO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	2580	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	2610	Edge_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass



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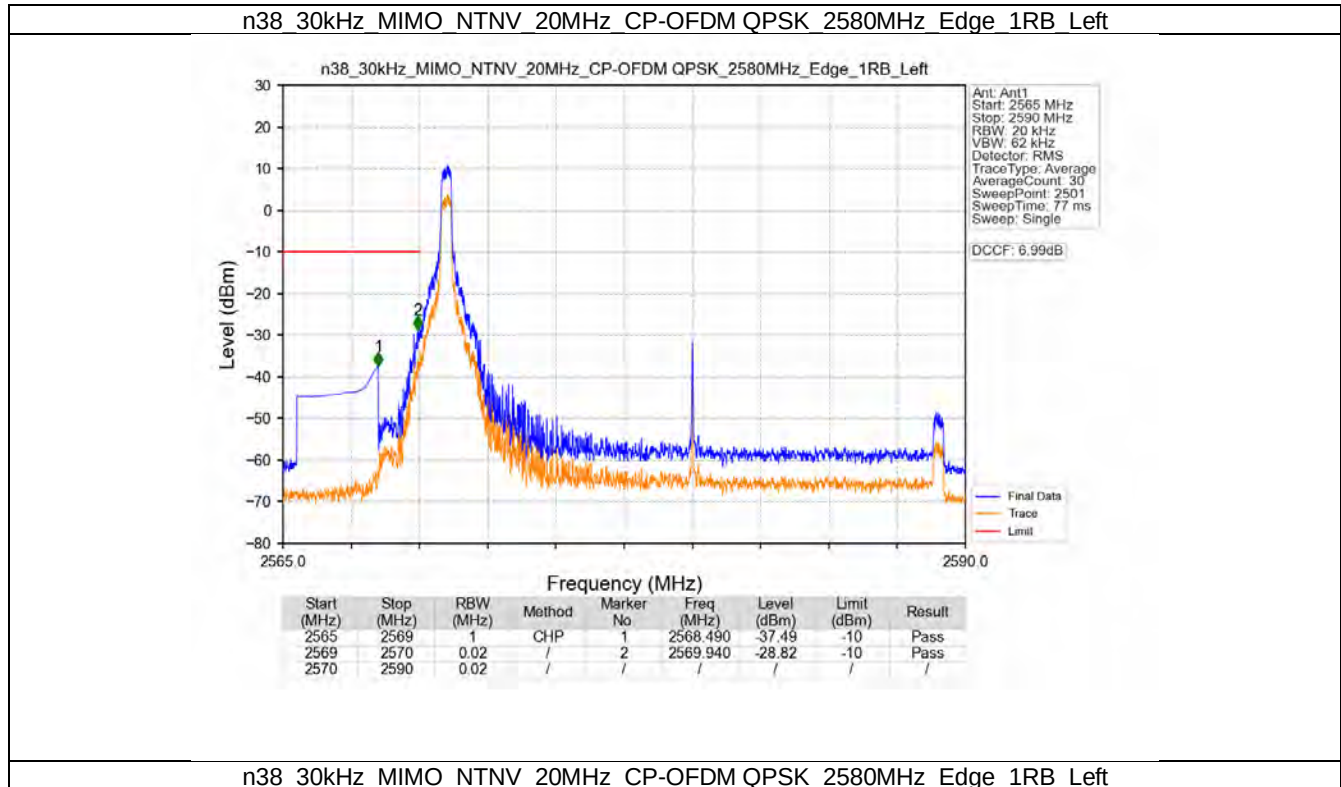
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5.4.2 Test Graph



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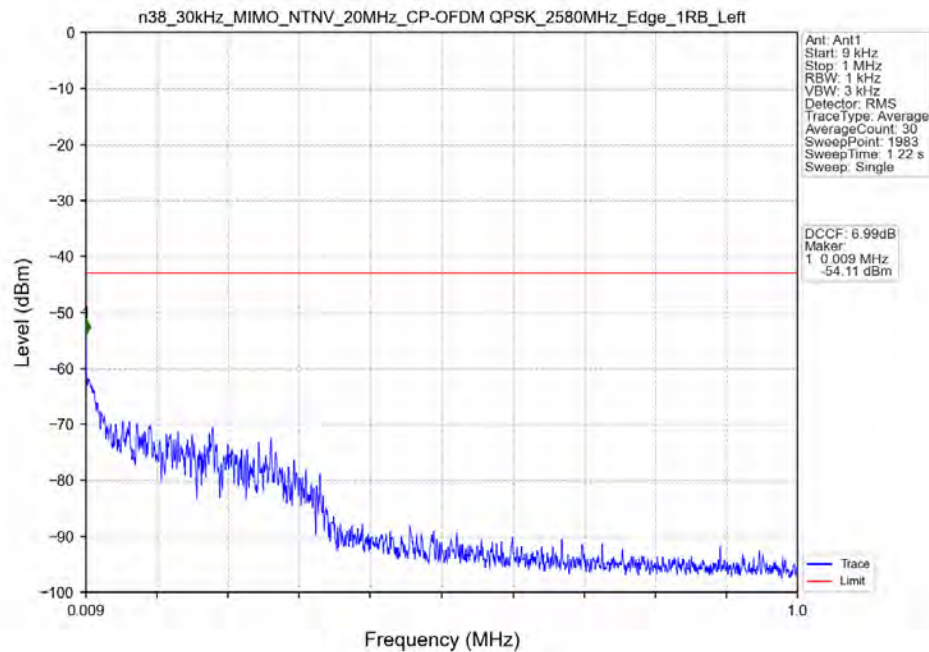


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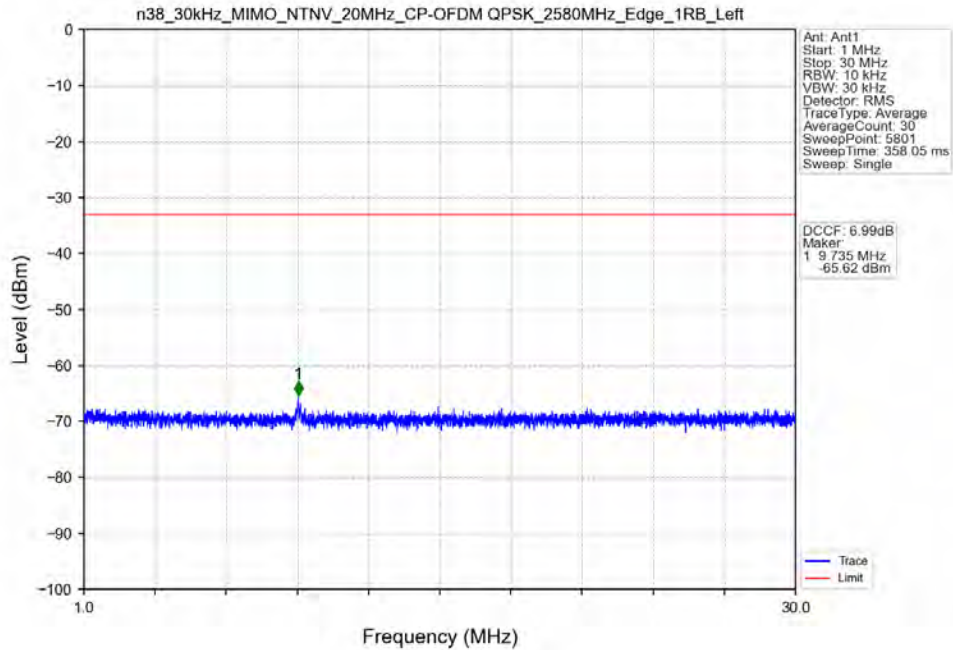
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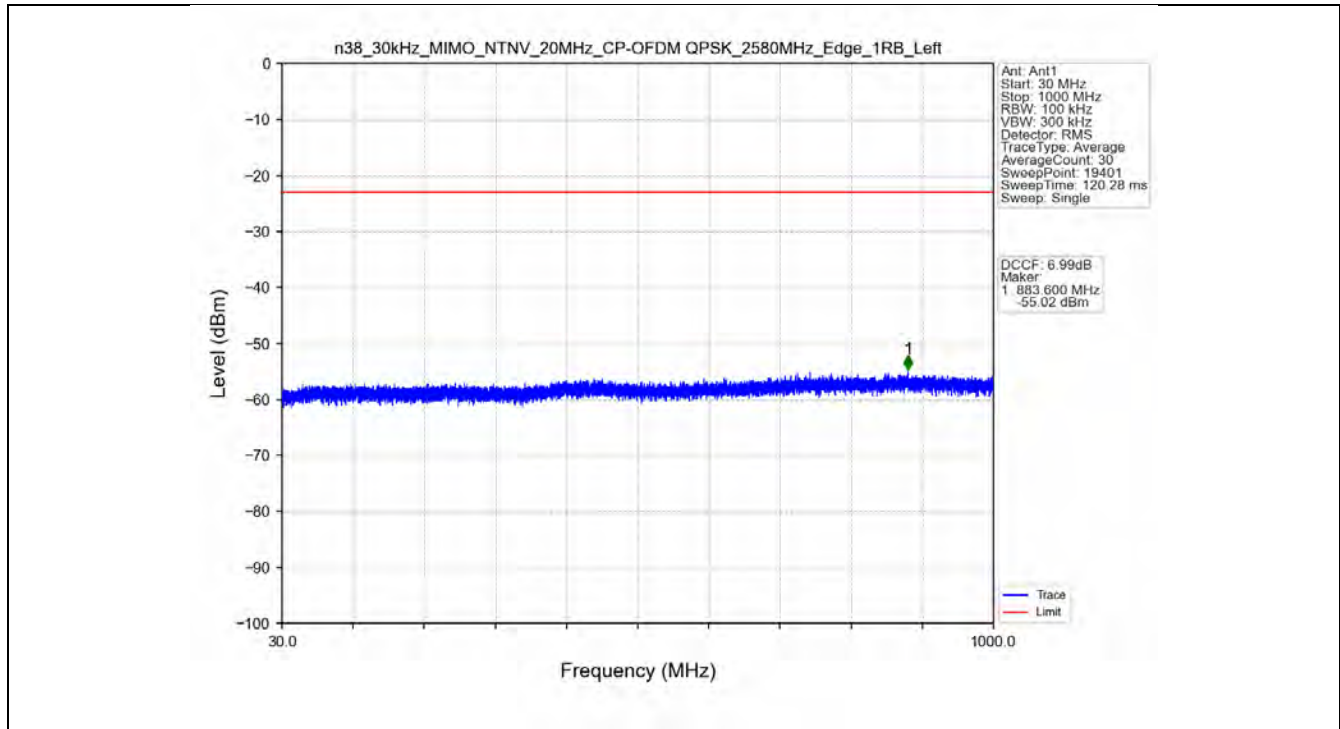


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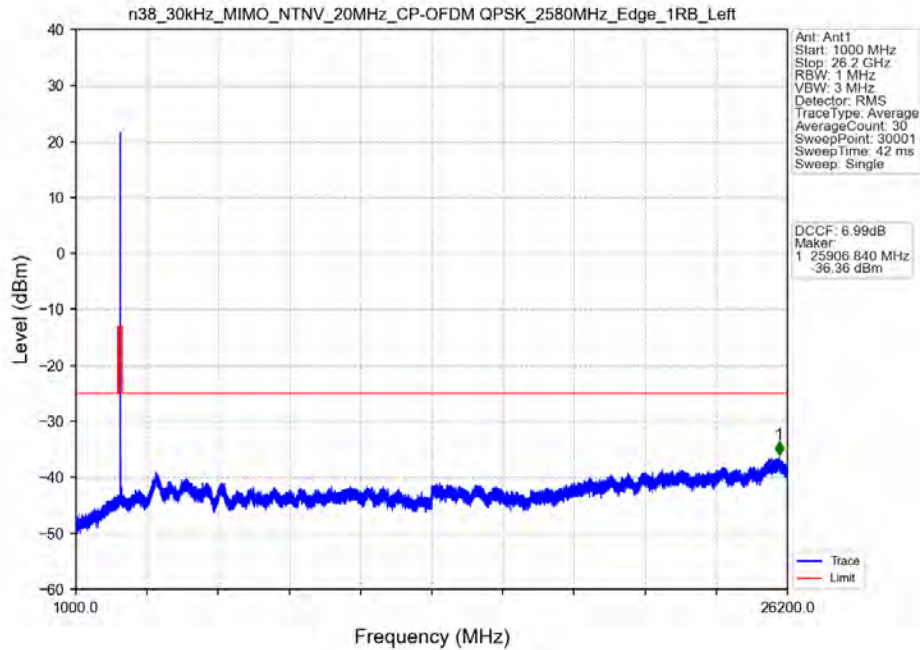
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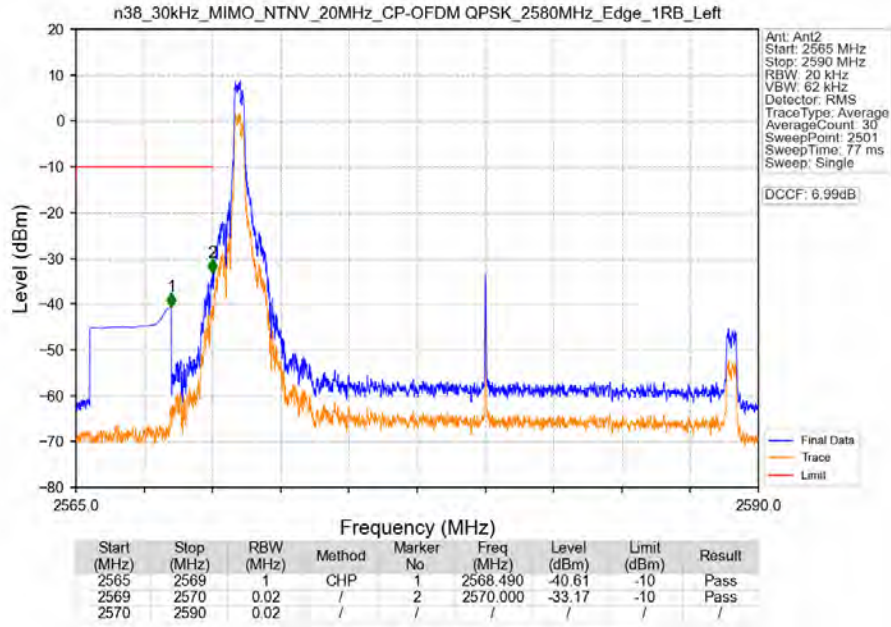


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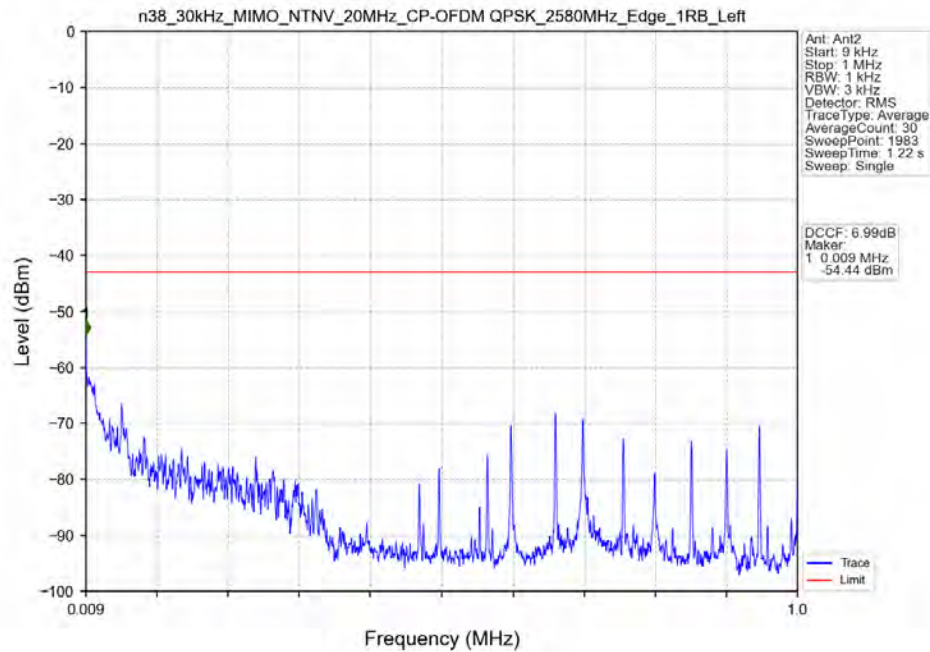
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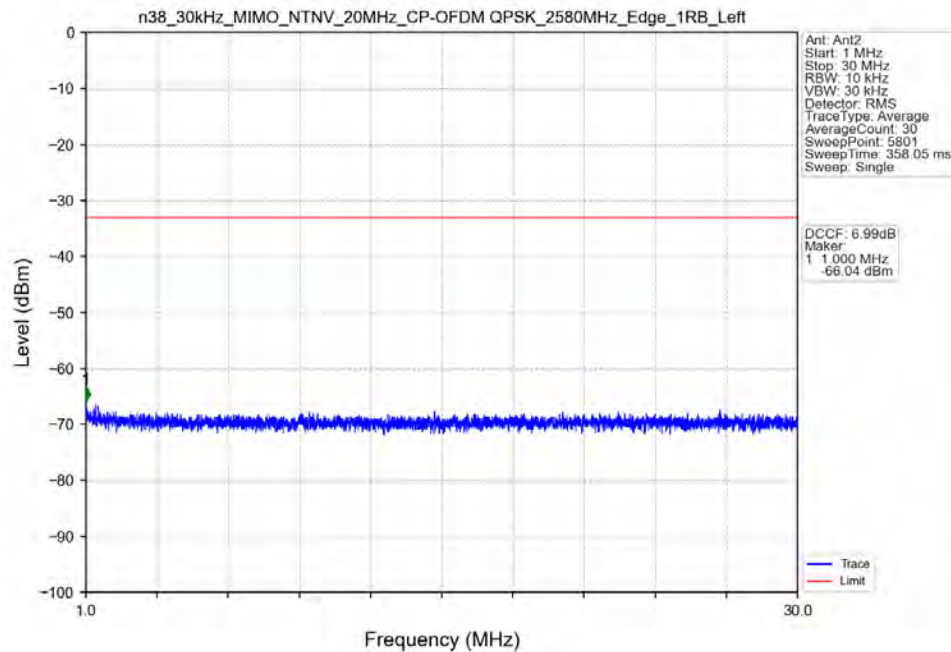


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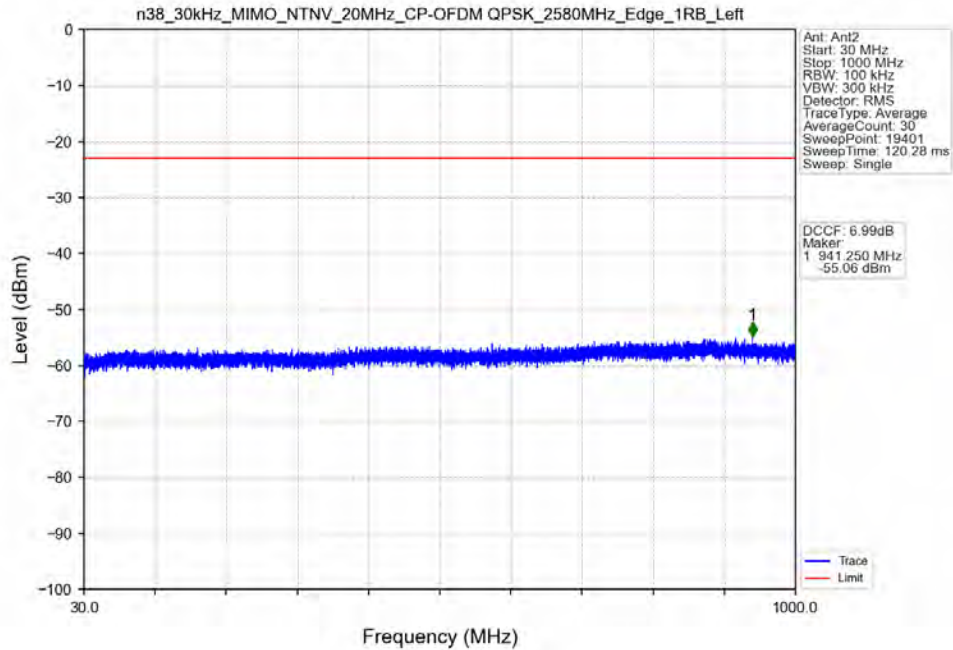
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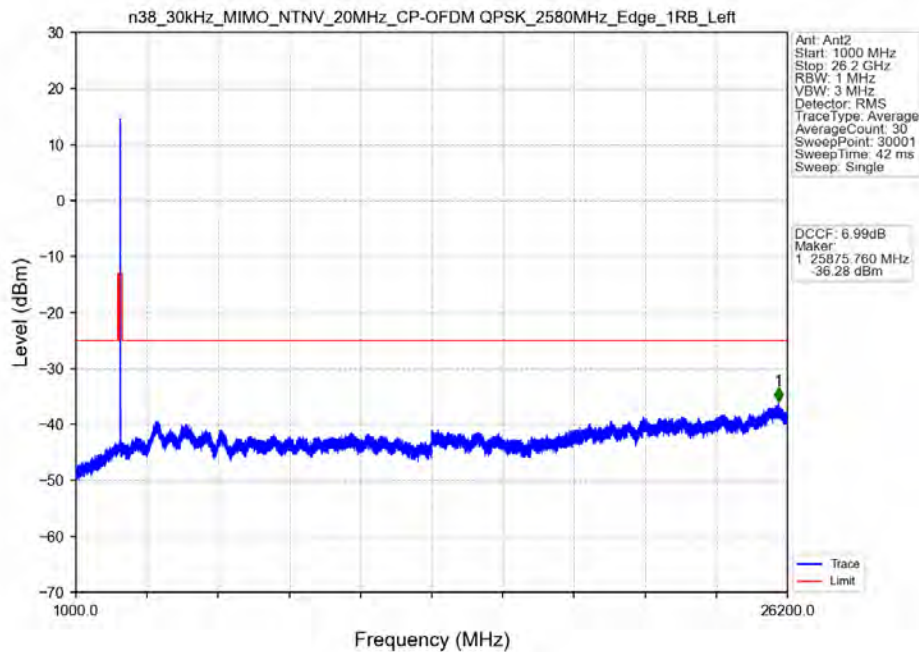


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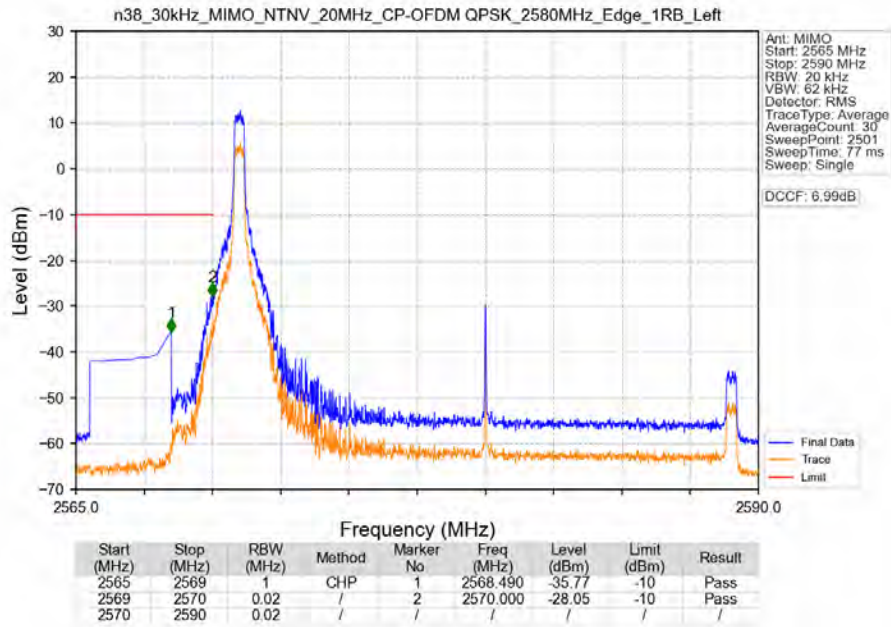
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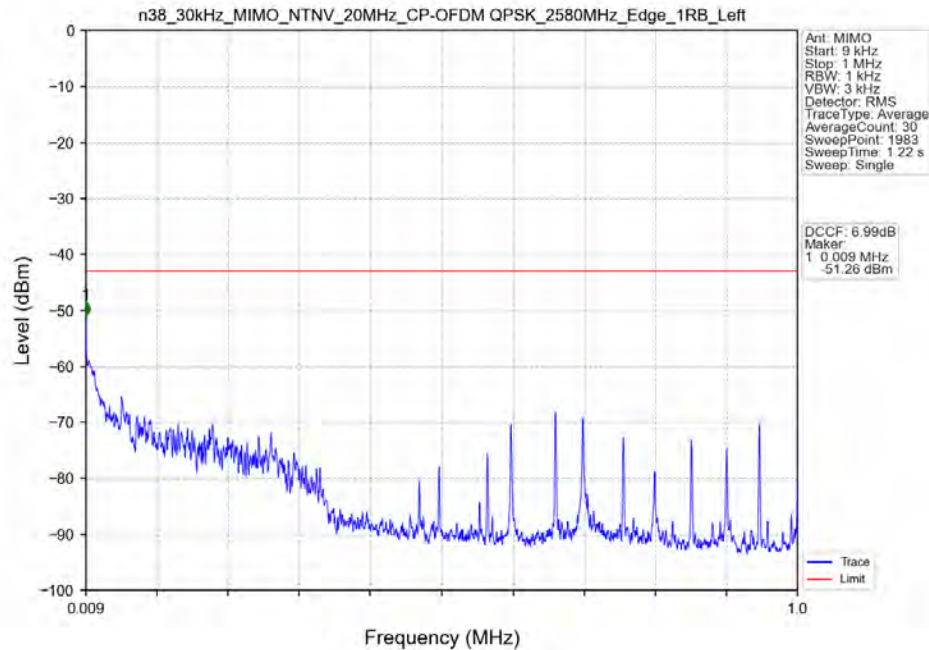


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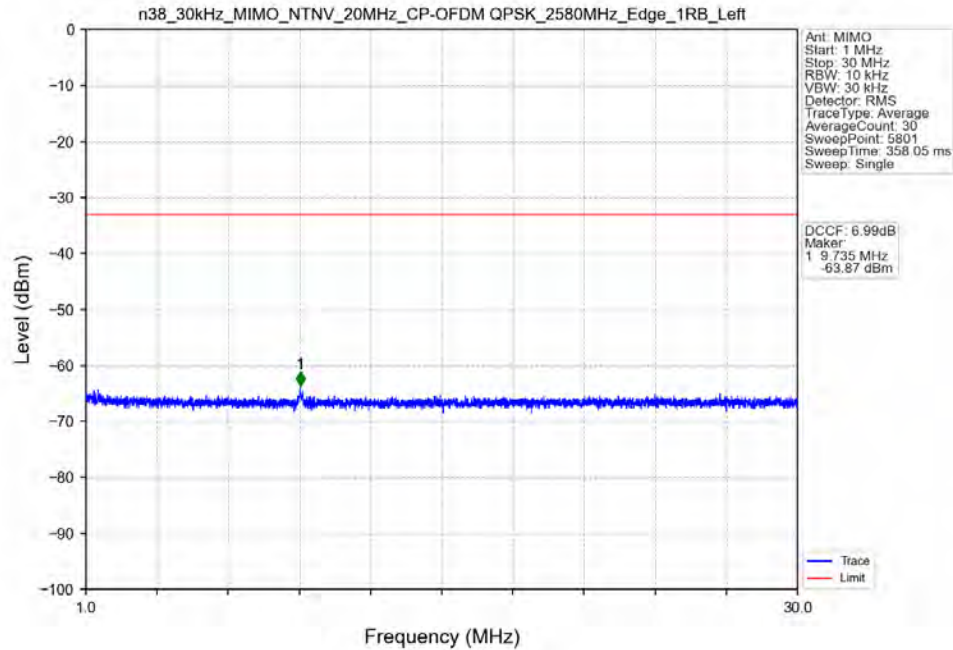
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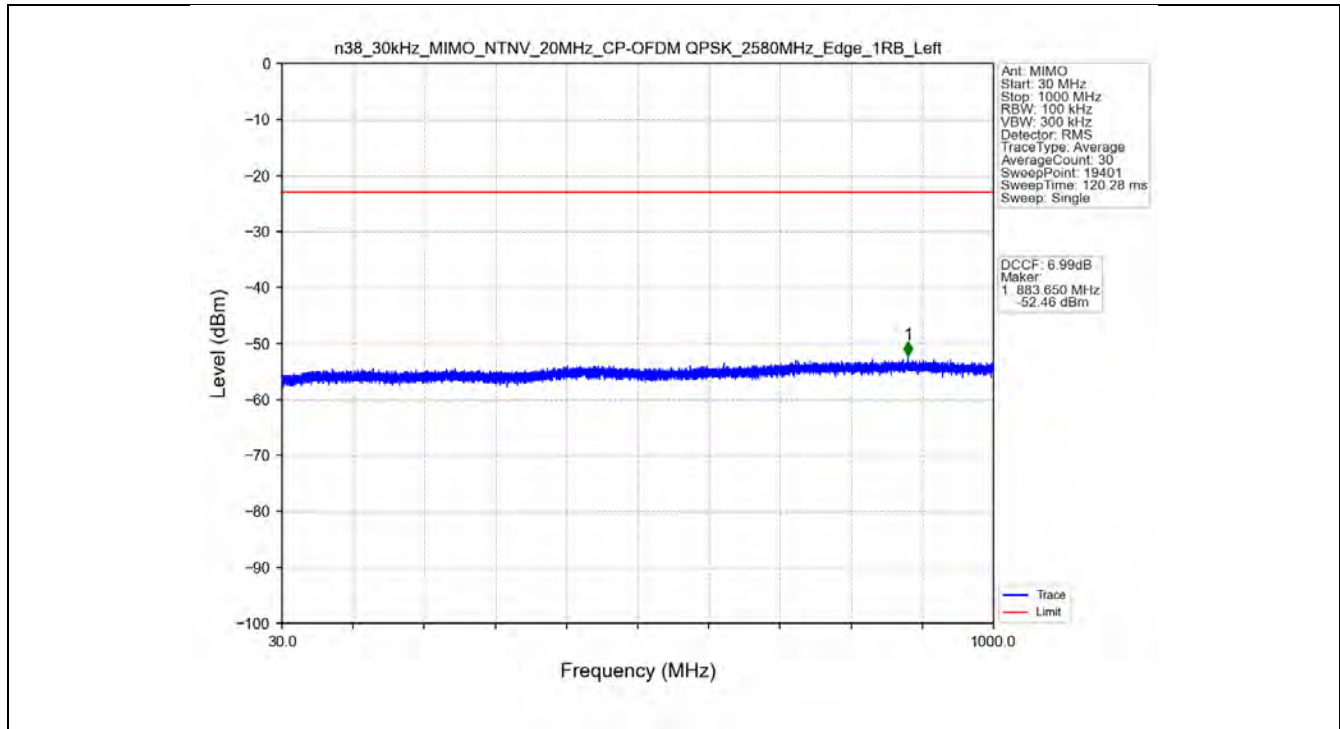


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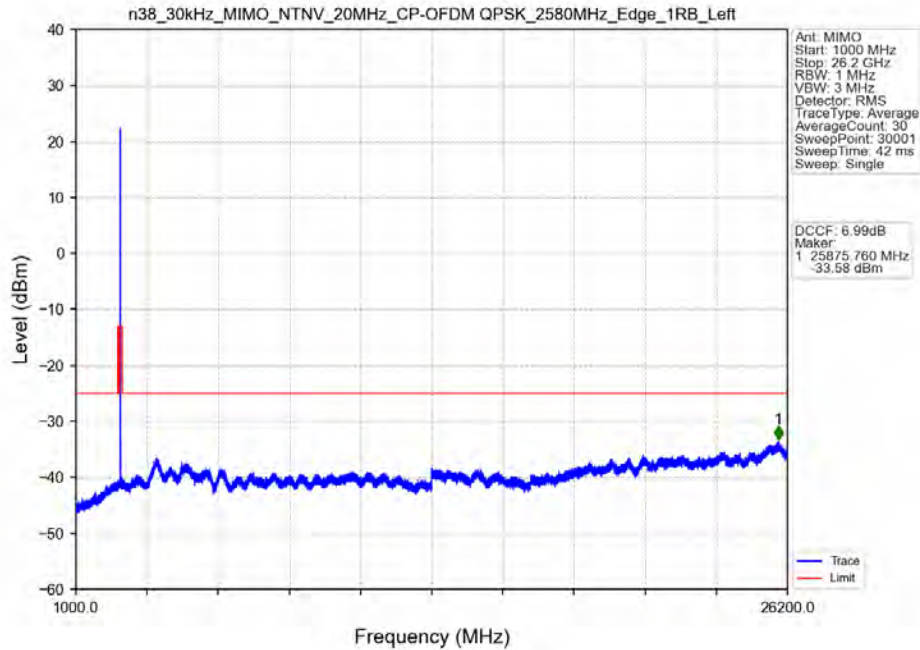
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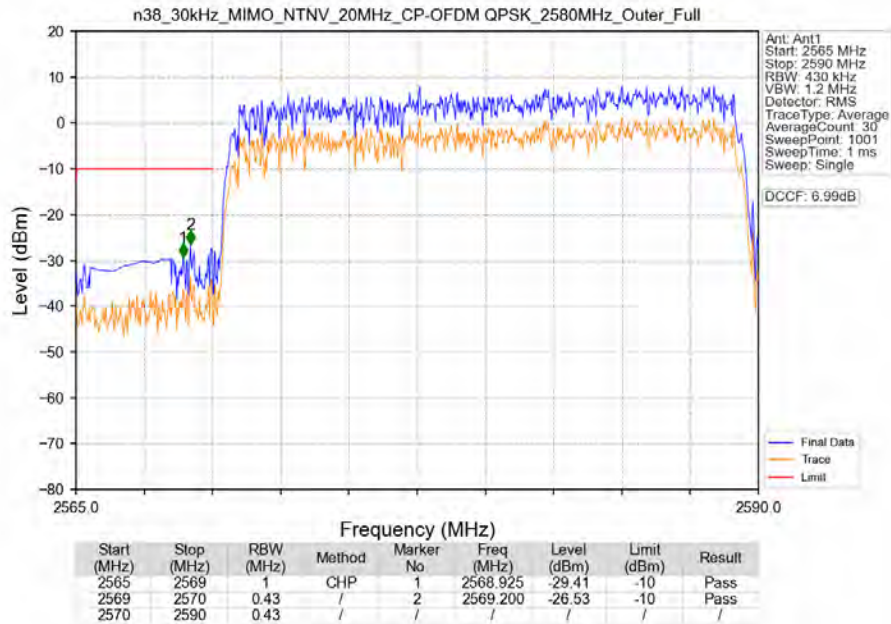


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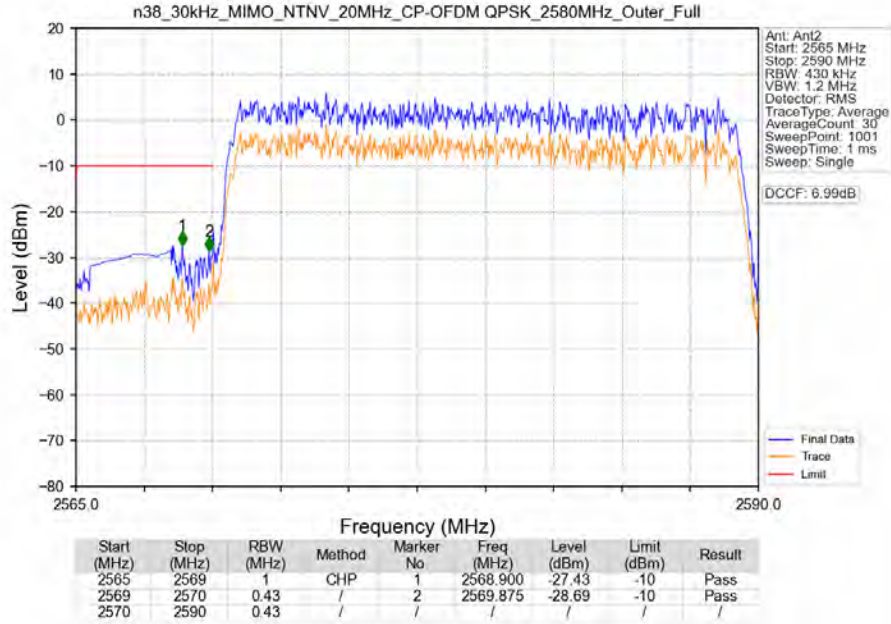
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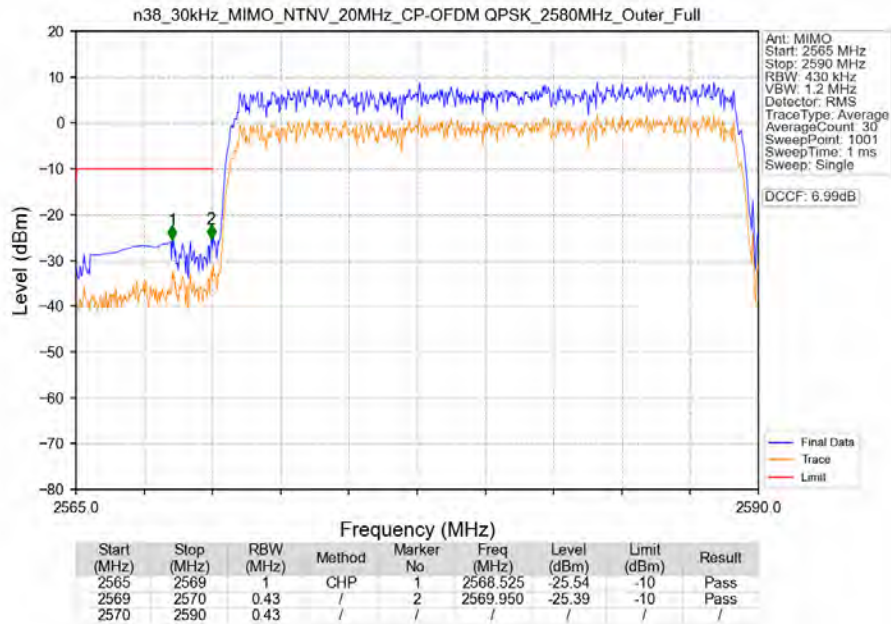


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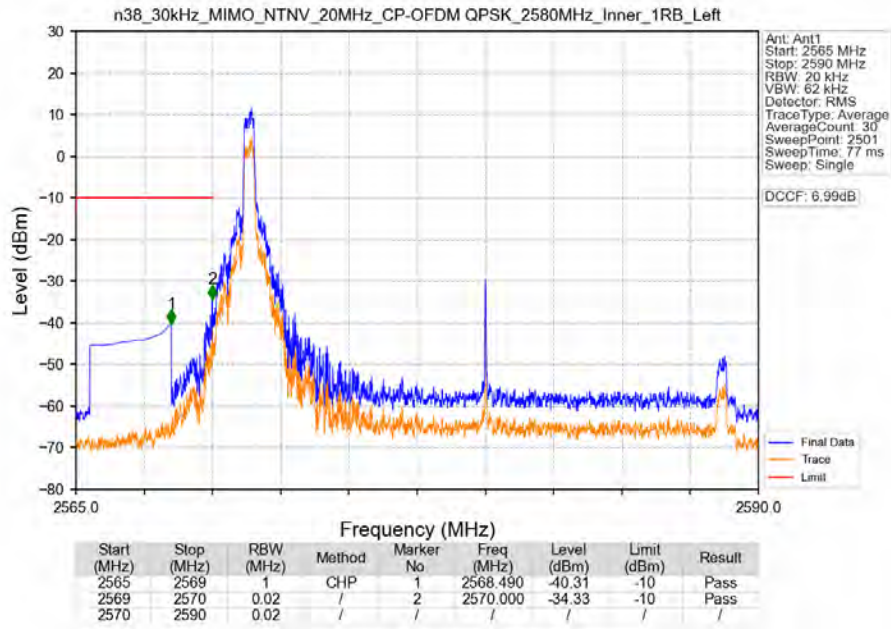
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n38_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_2580MHz_Inner_1RB_Left



n38_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_2580MHz_Inner_1RB_Left



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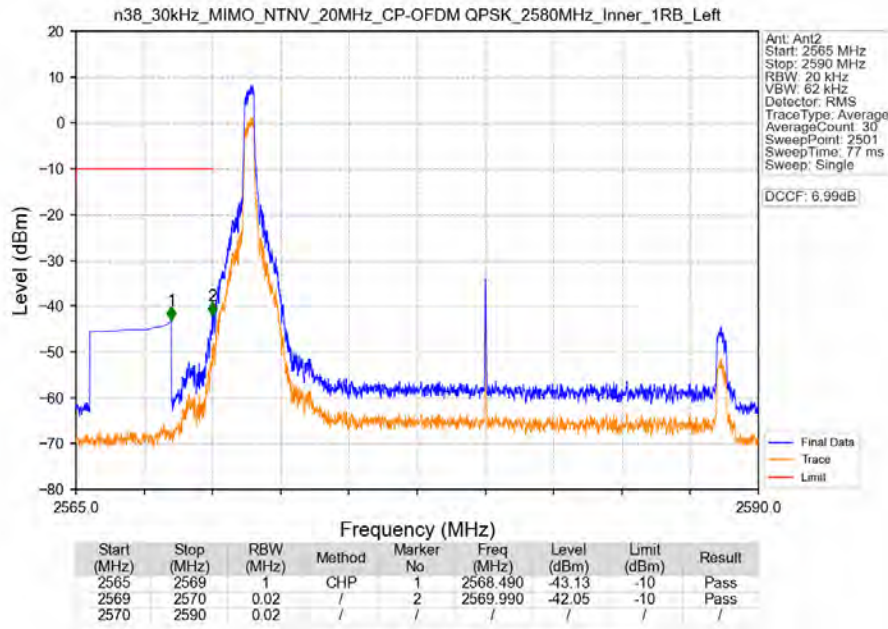


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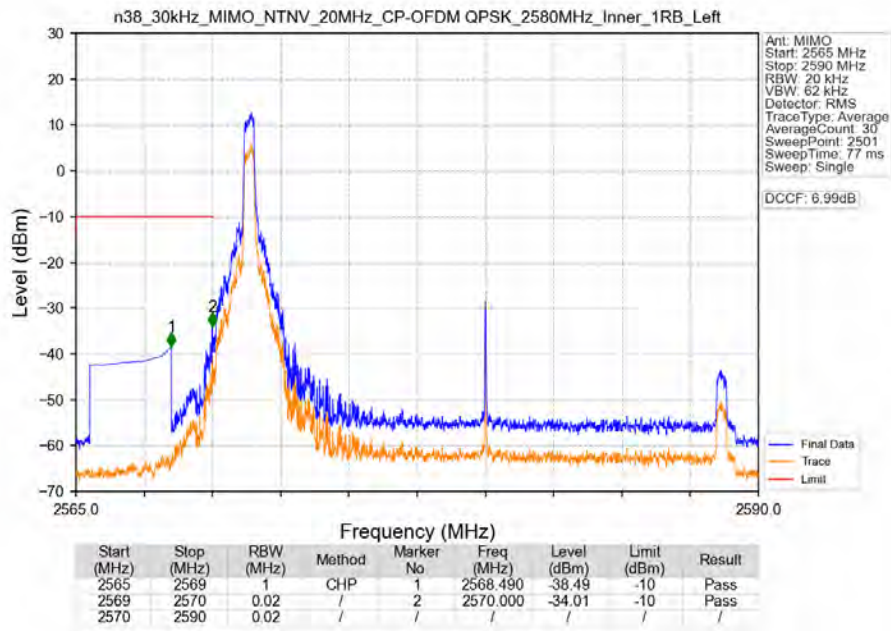
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n38_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_2610MHz_Edge_1RB_Right



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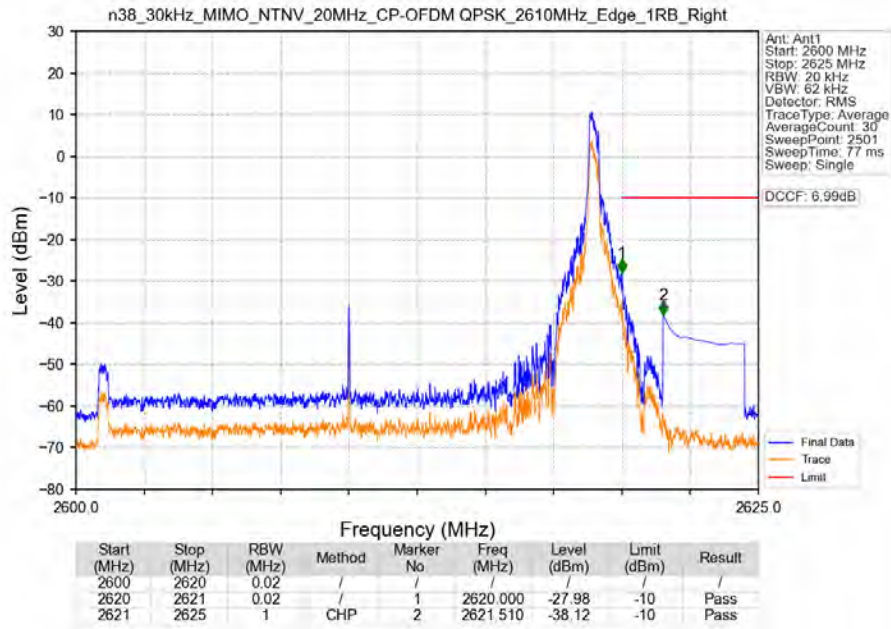


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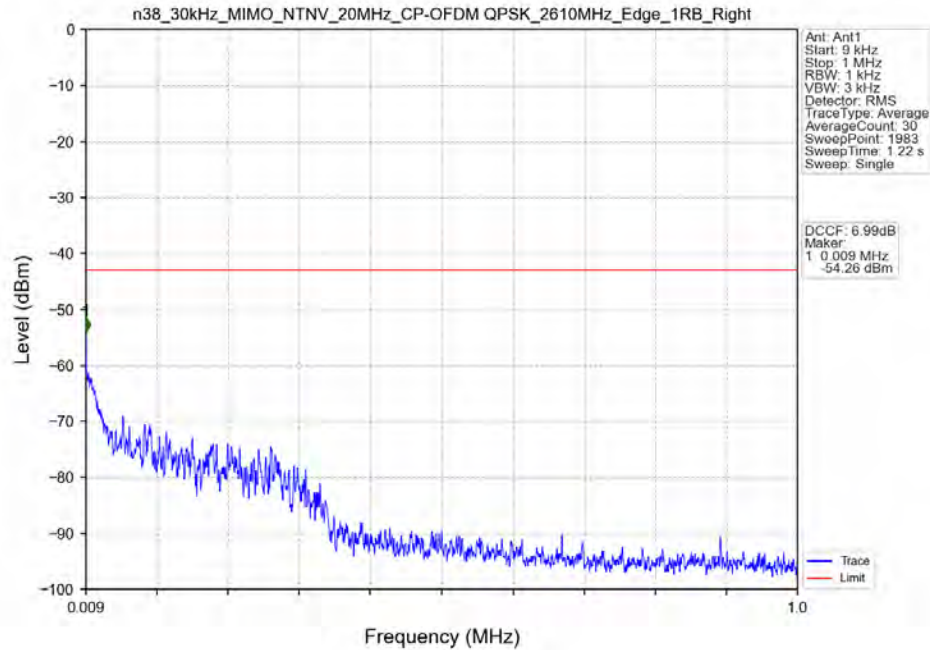
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n38_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_2610MHz_Edge_1RB_Right



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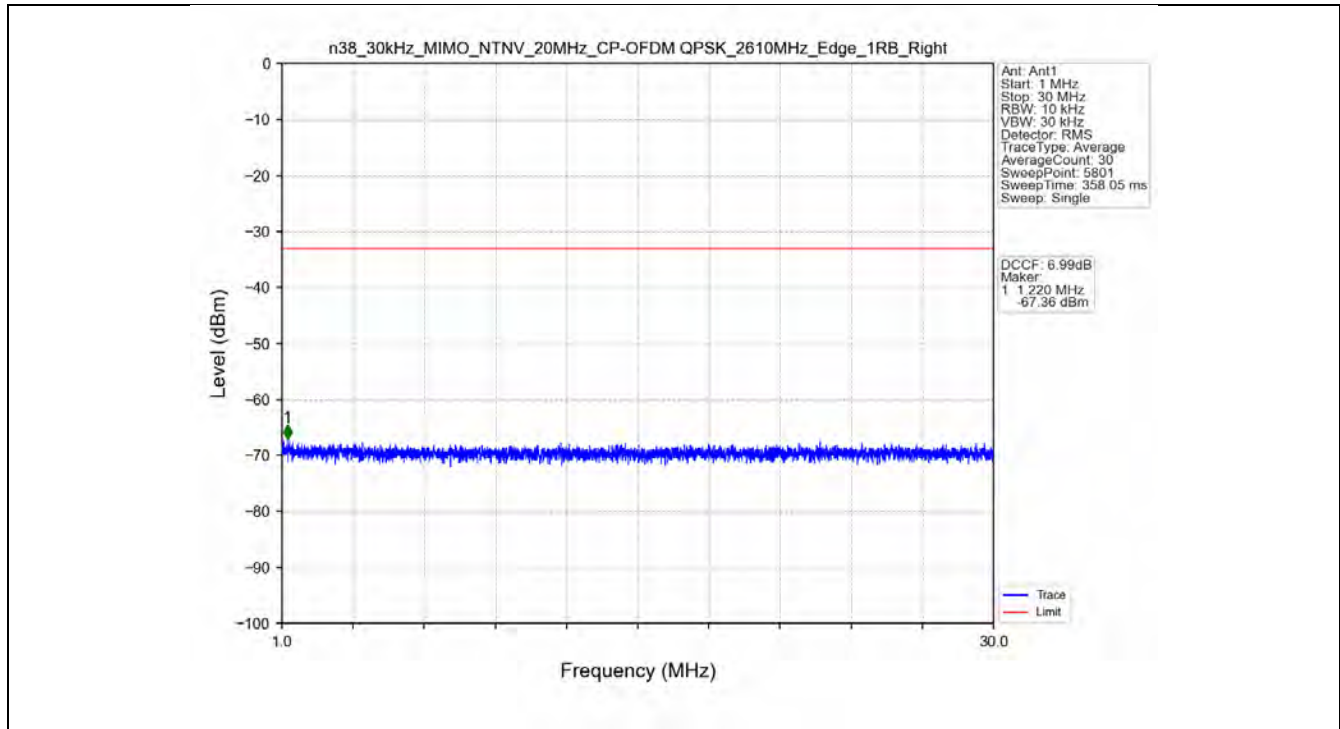


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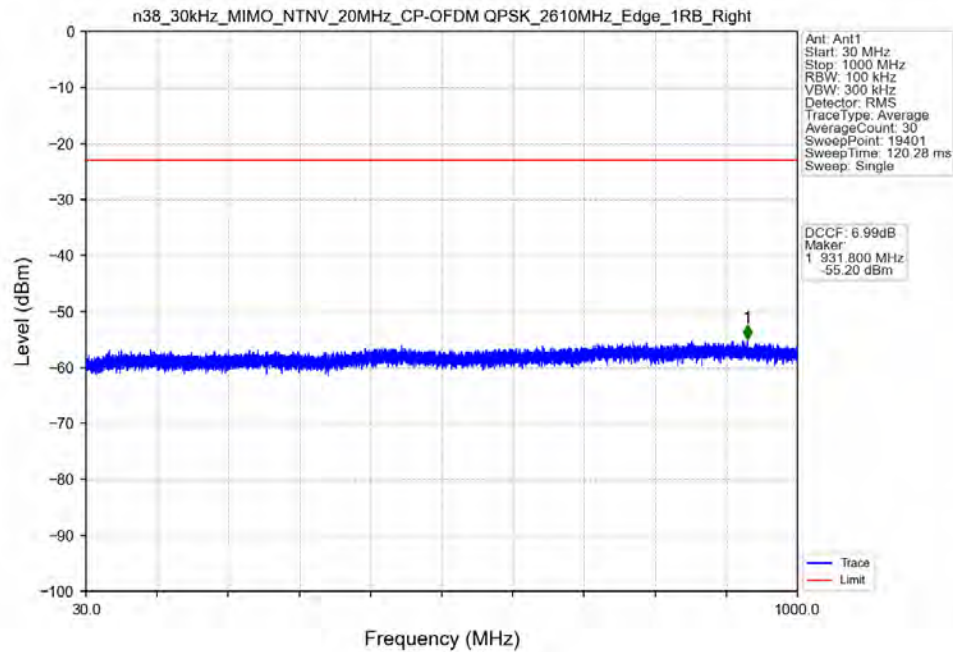
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n38_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_2610MHz_Edge_1RB_Right



n38_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_2610MHz_Edge_1RB_Right



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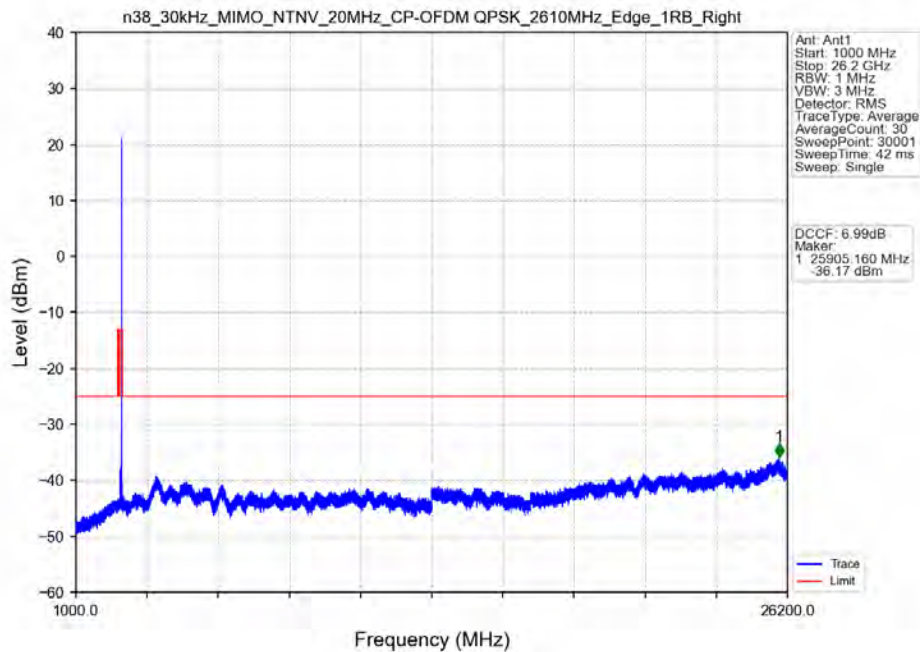


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