

5G NR N48

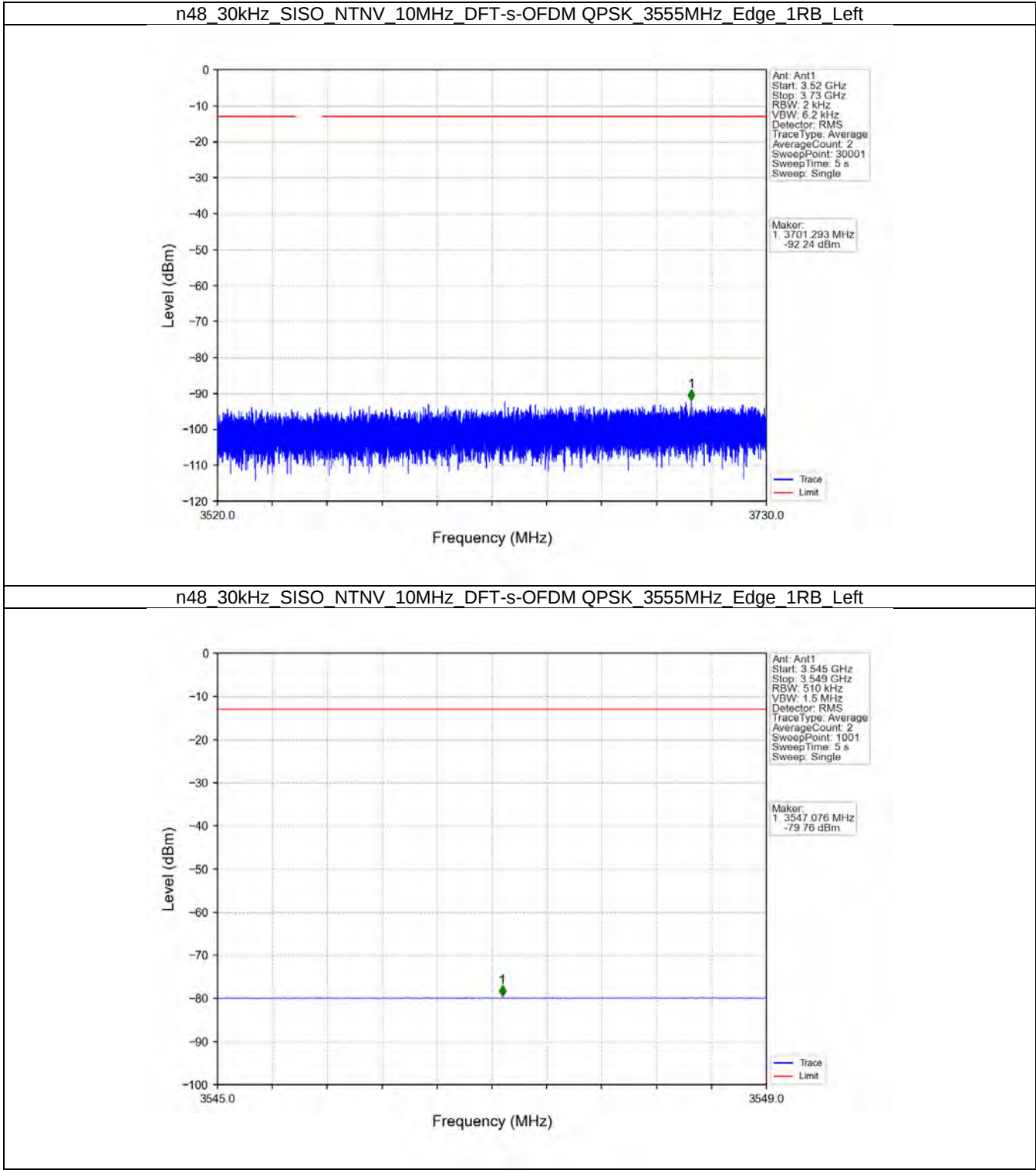
1. Spurious Emission

1.1 30k_SISO_10MHz_NTNV

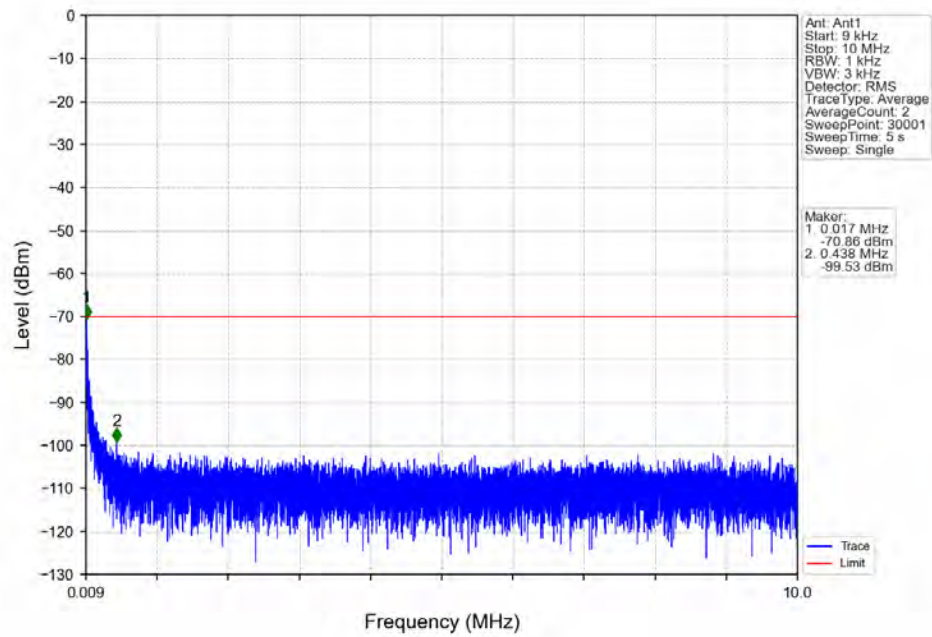
1.1.1 Test Result

5G NR n48 SCS=30kHz SISO 10MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3555	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3624.99	Edge_1RB_Left	Refer To Test Graph				Pass
	3694.98	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	3555	Edge_1RB_Left	Refer To Test Graph			
Outer_Full			Refer To Test Graph				Pass
Inner_1RB_Left			Refer To Test Graph				Pass
3624.99		Edge_1RB_Left	Refer To Test Graph				Pass
3694.98		Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass

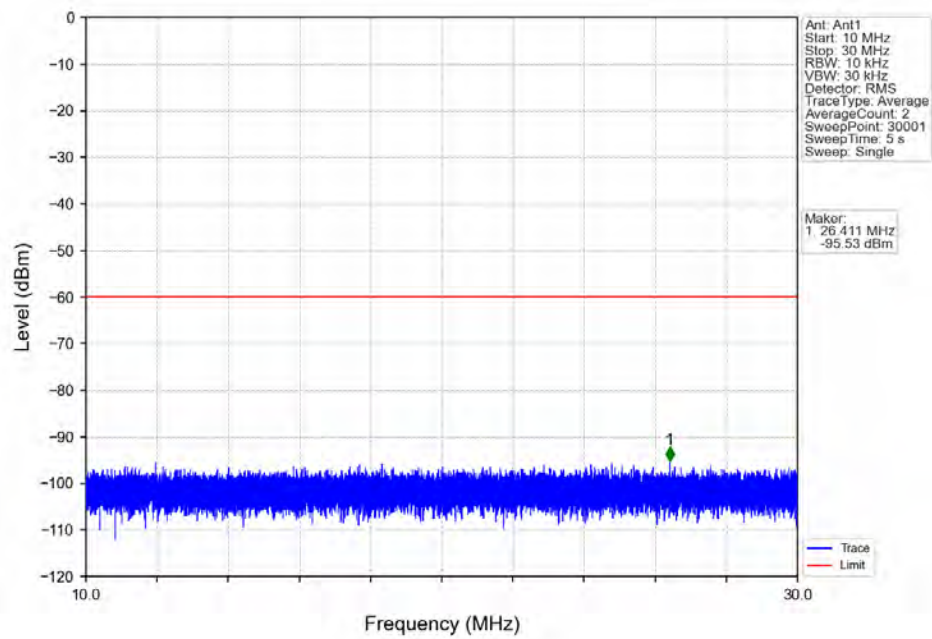
1.1.2 Test Graph



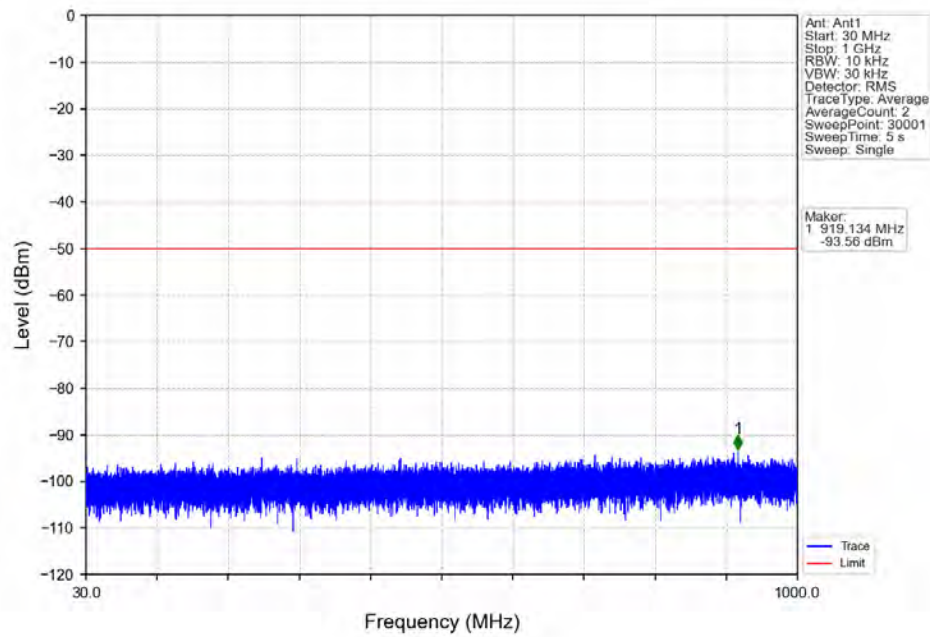
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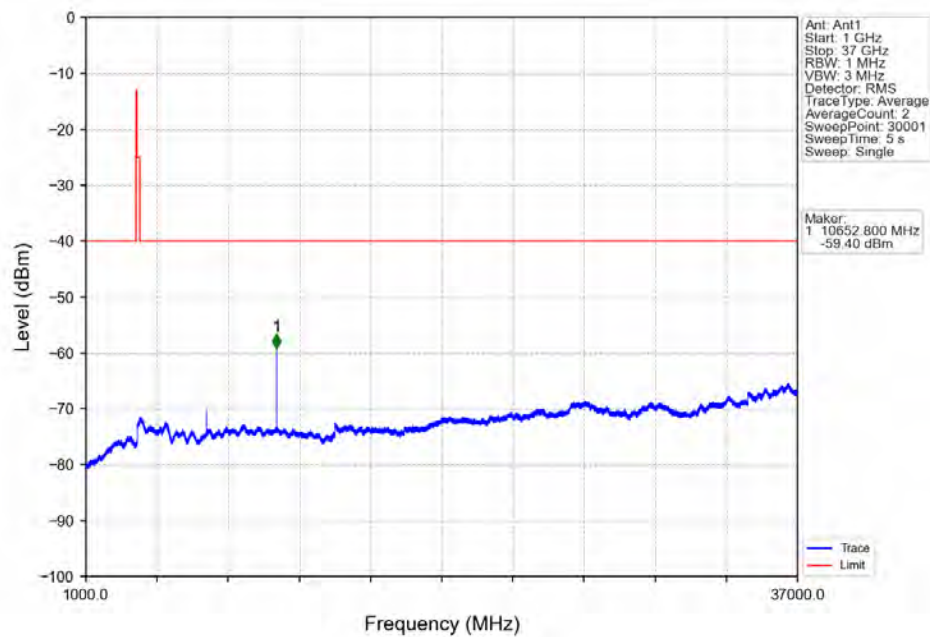
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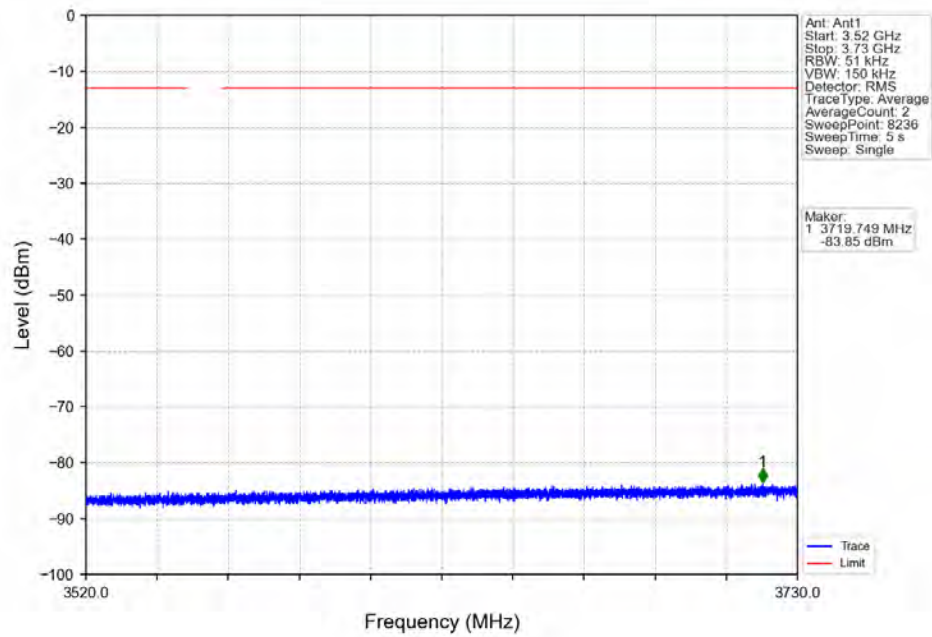
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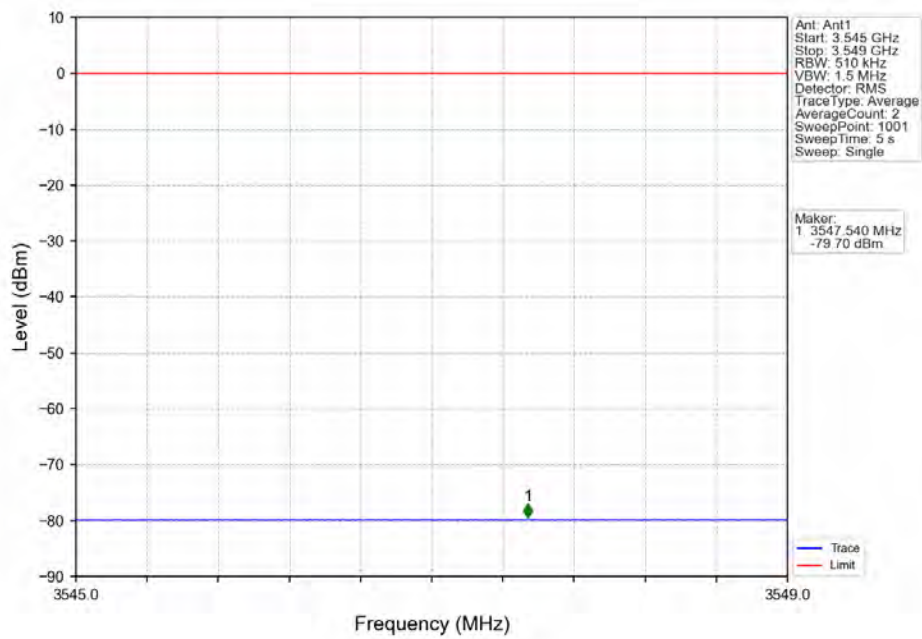
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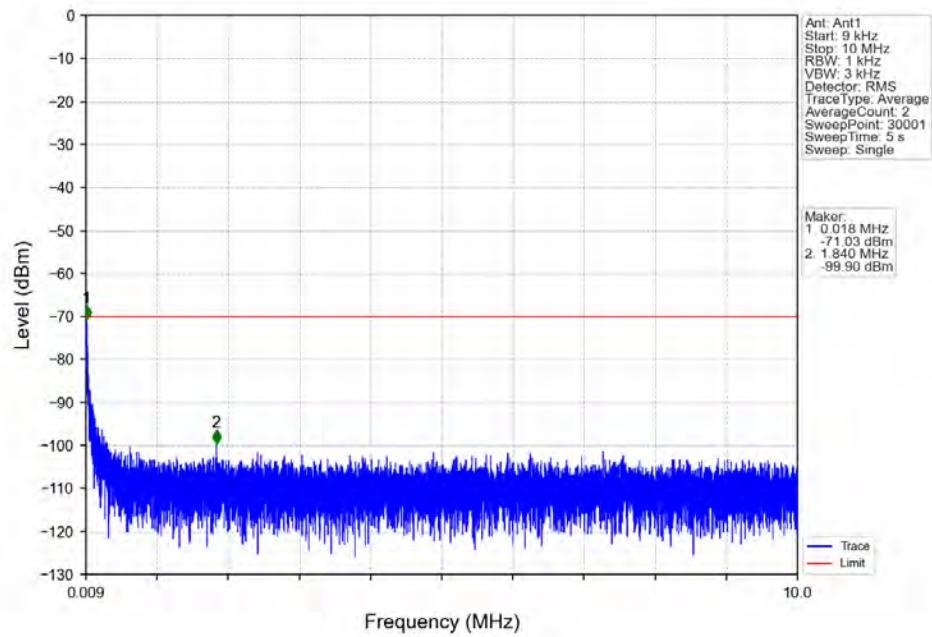
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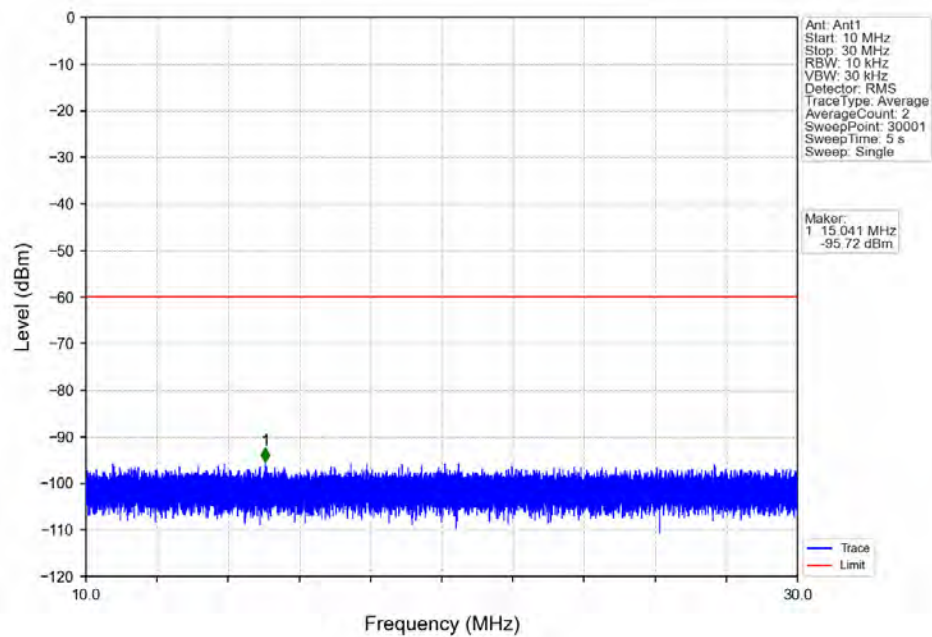
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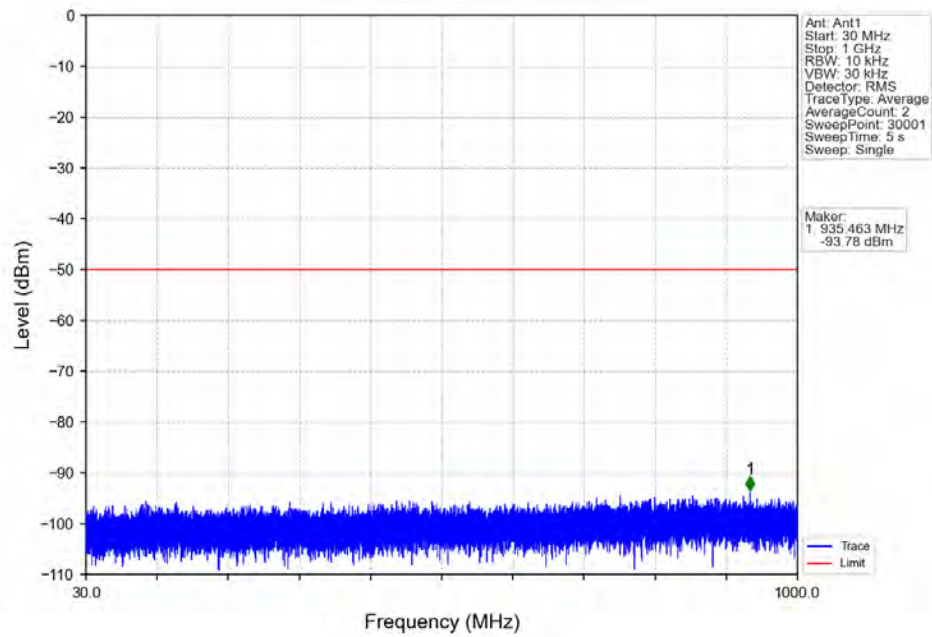
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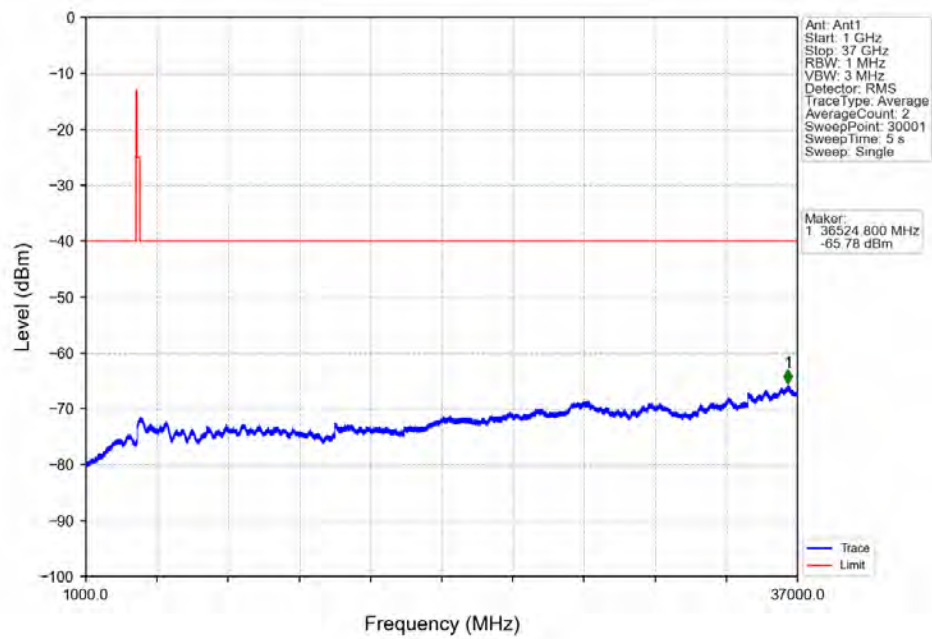
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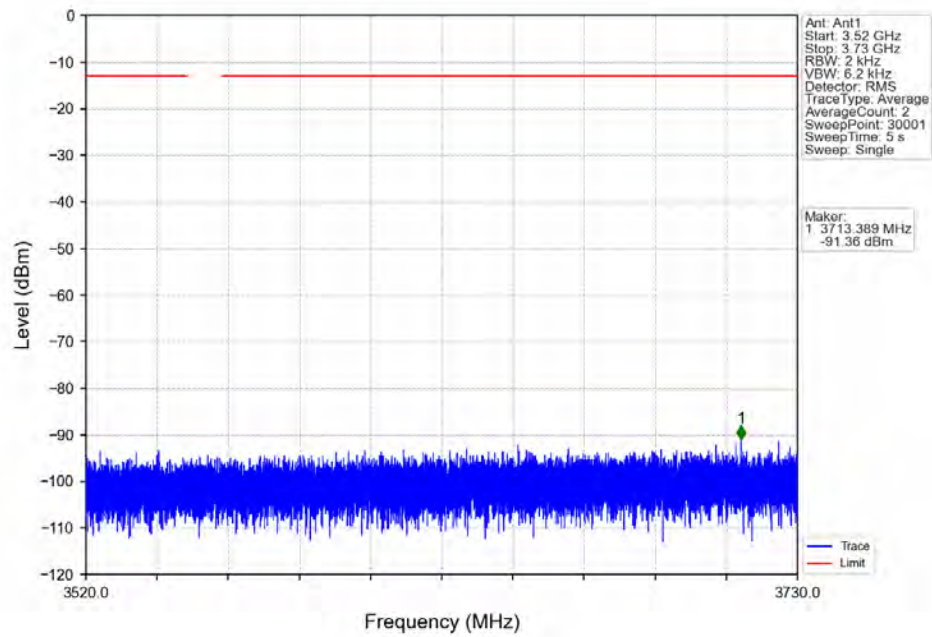
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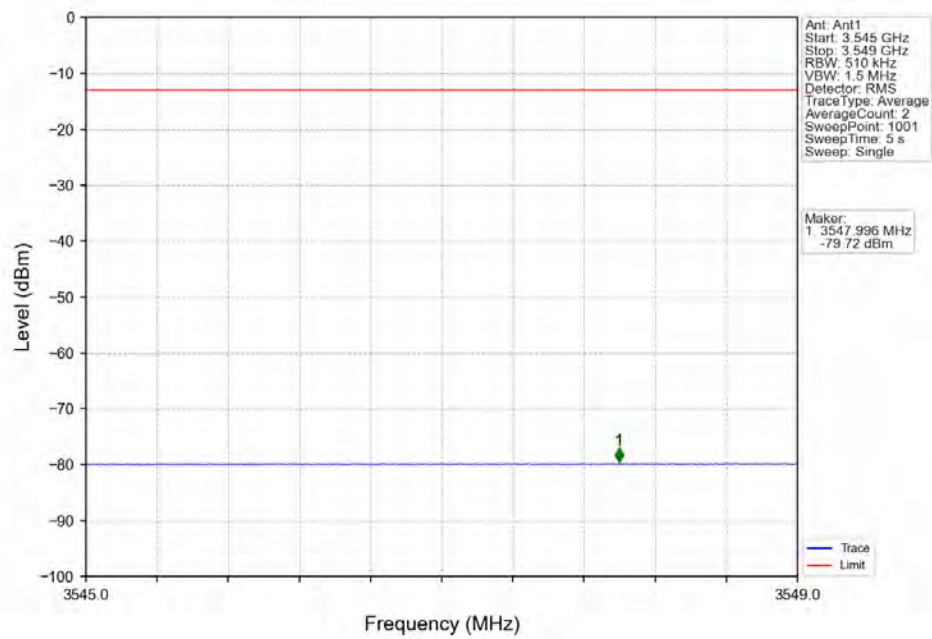
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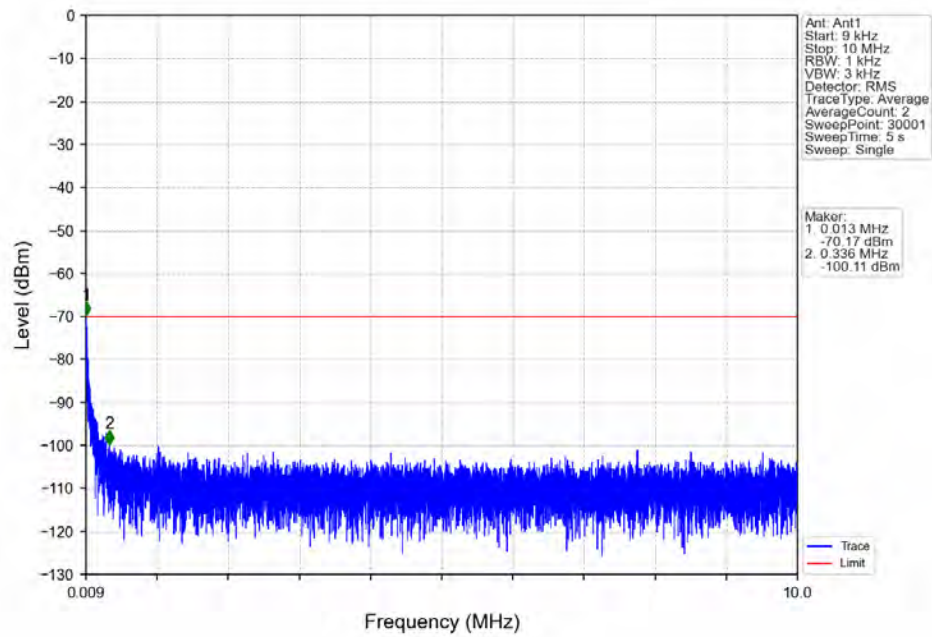
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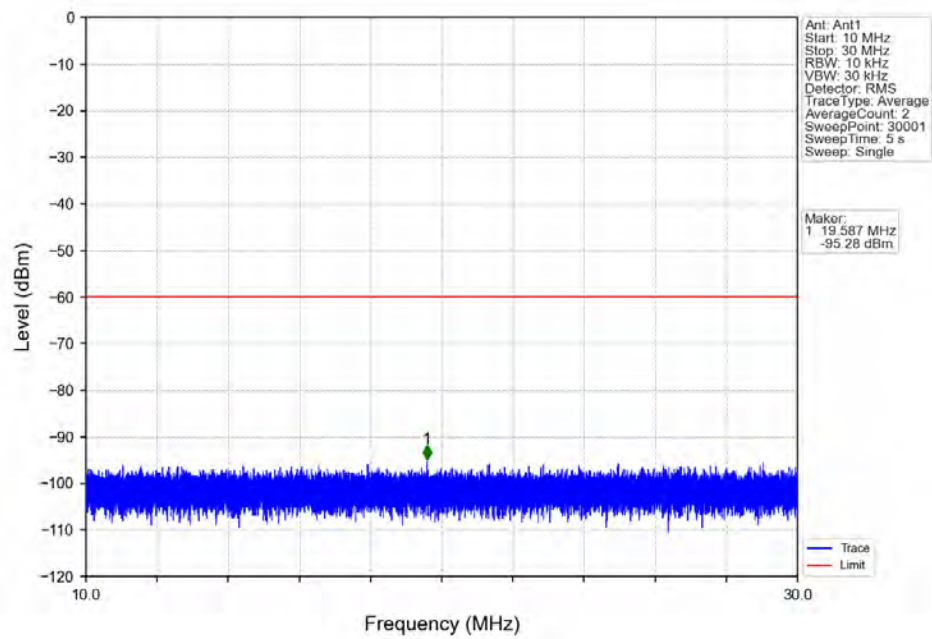
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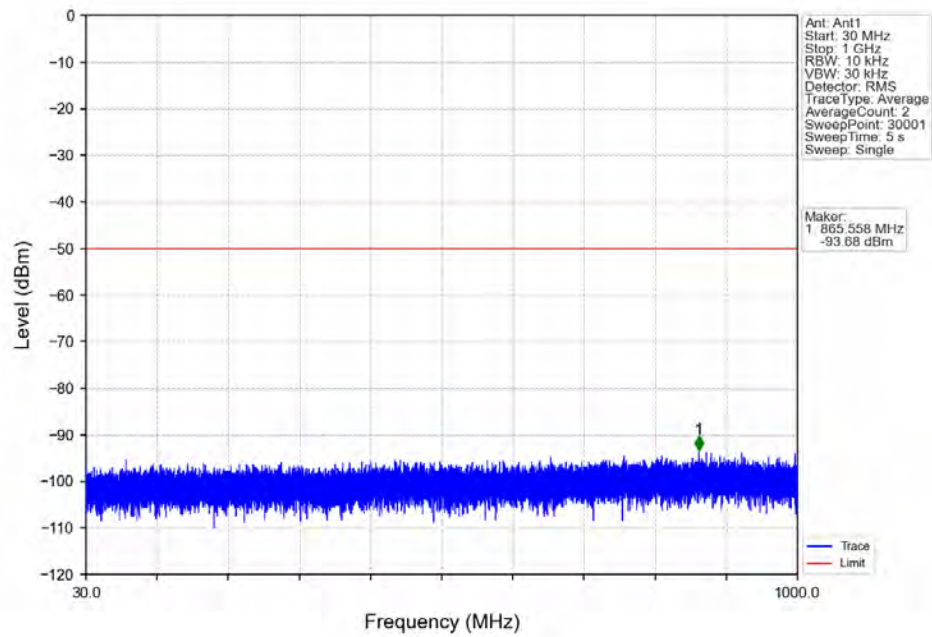
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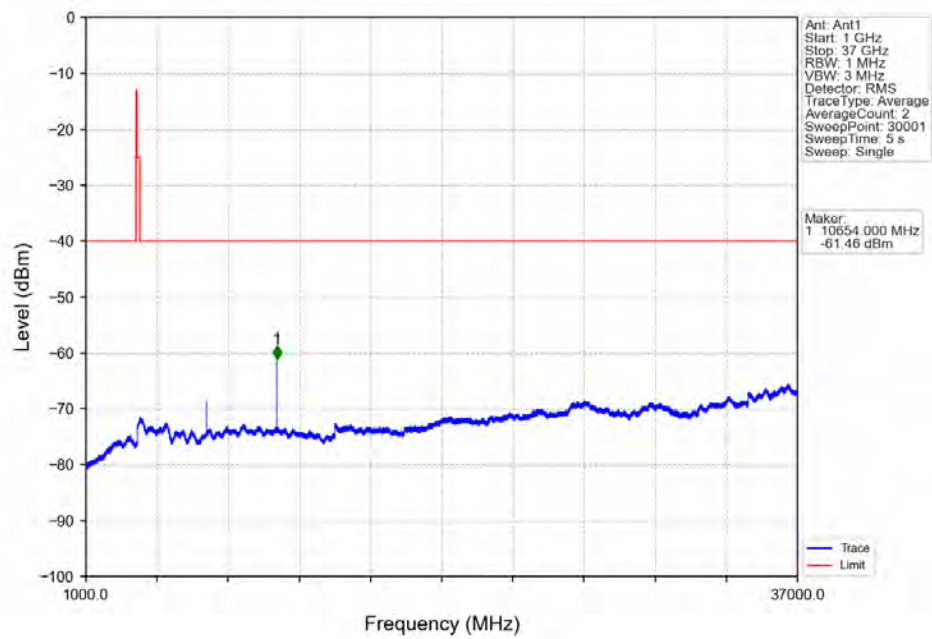
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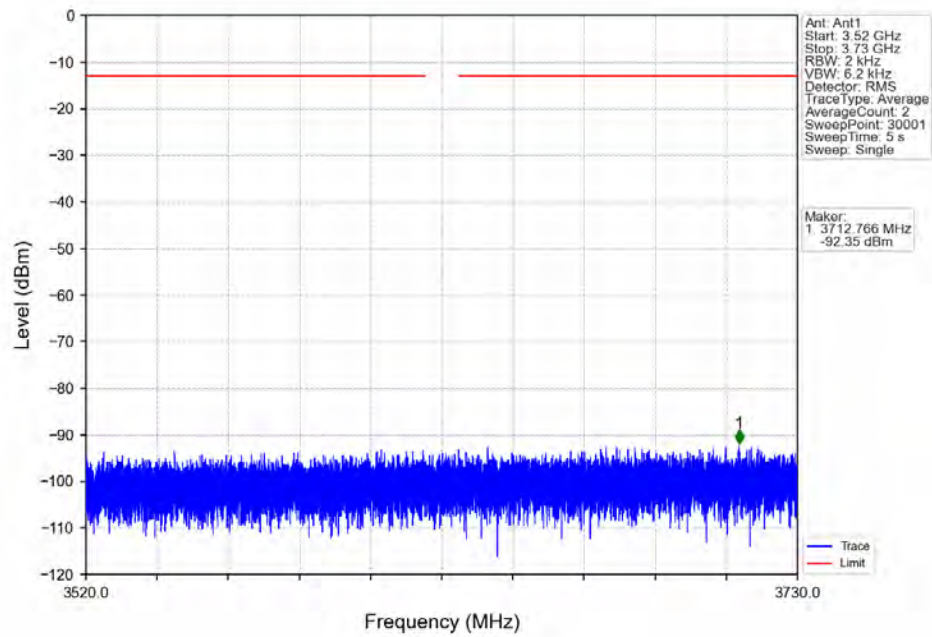
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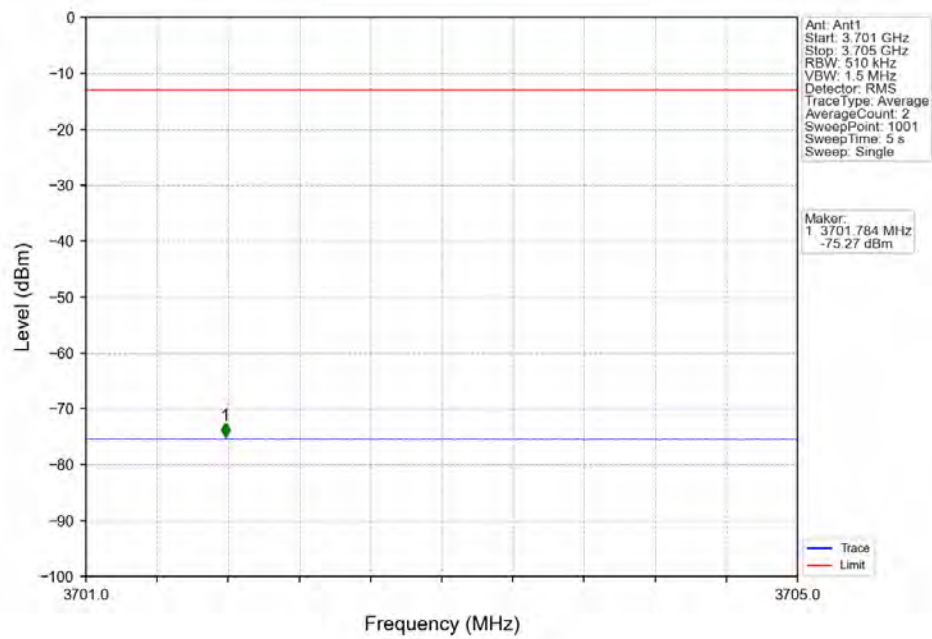
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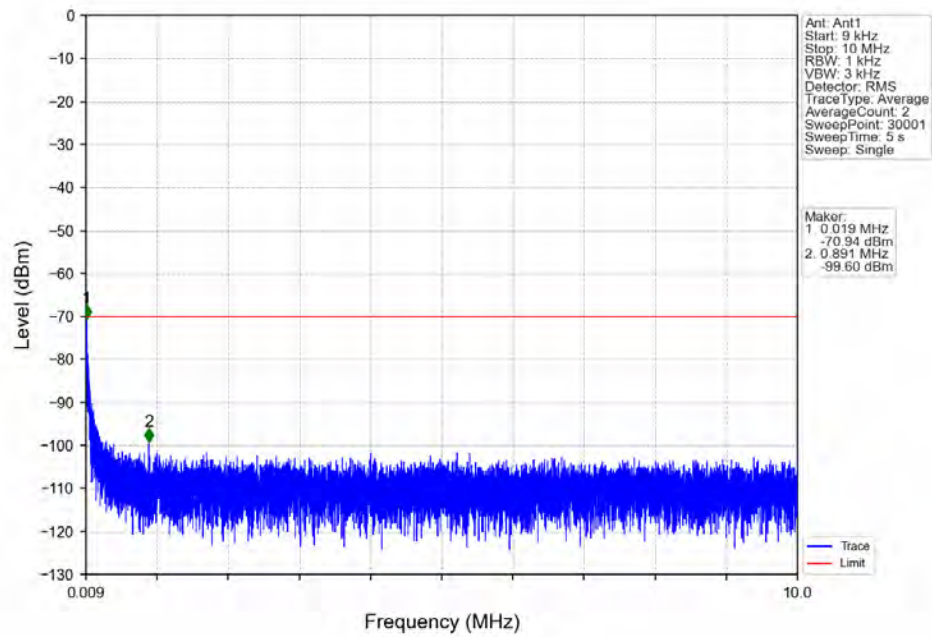
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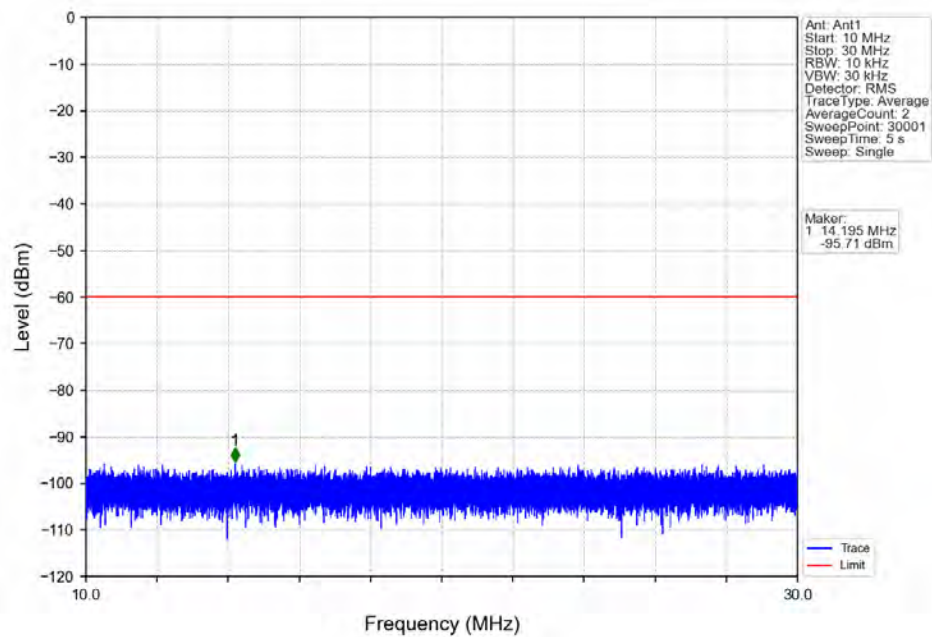
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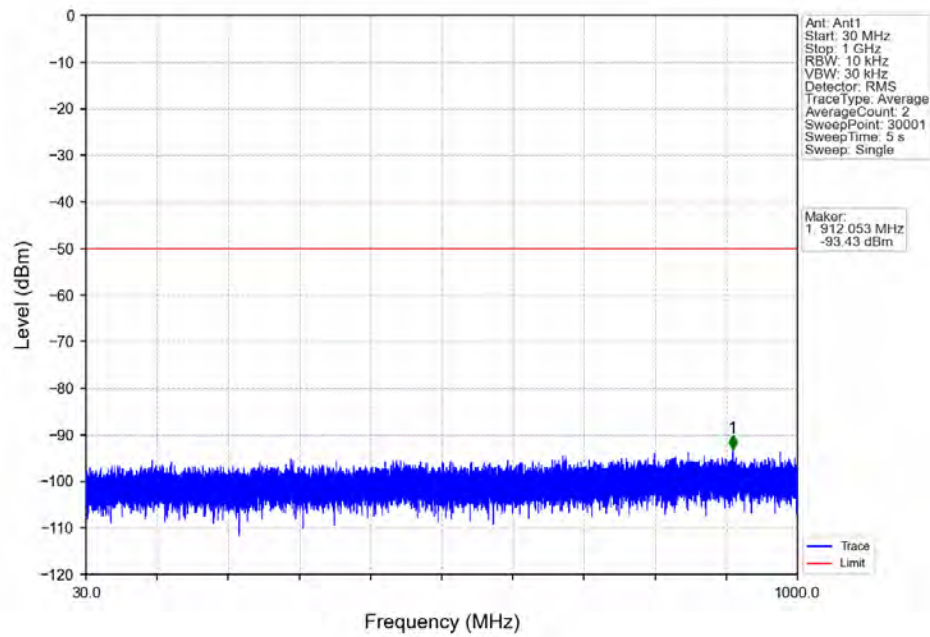
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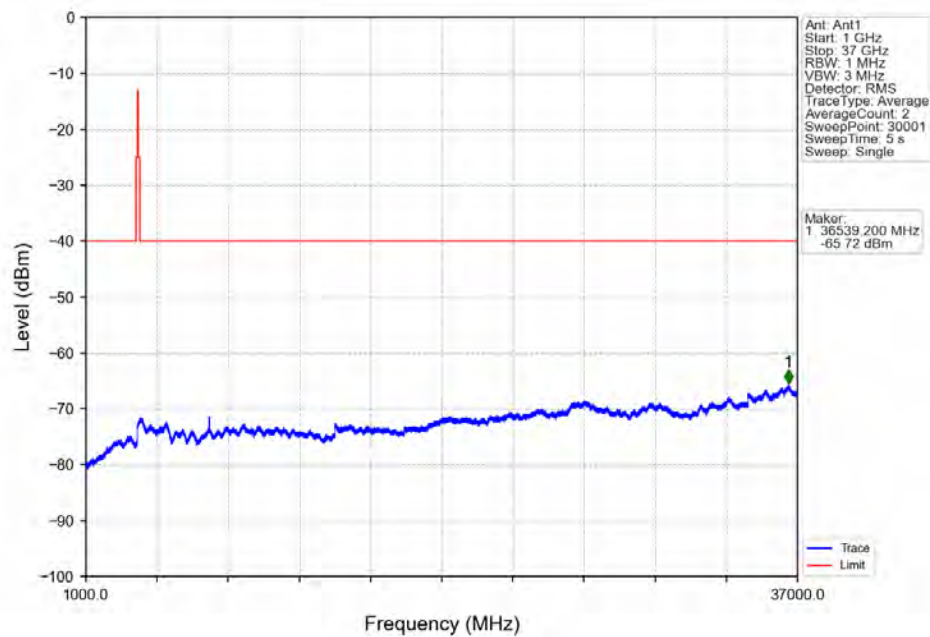
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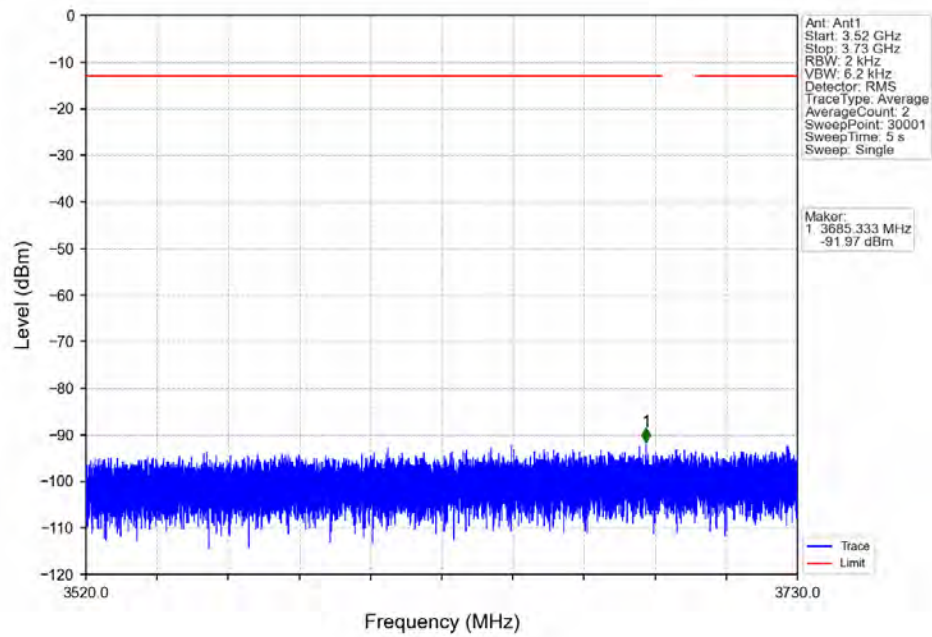
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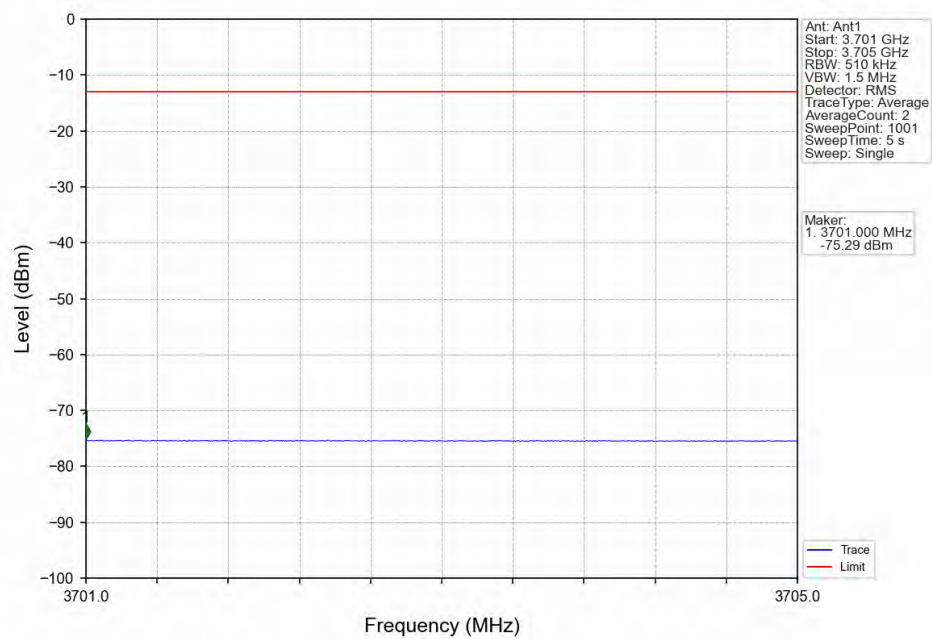
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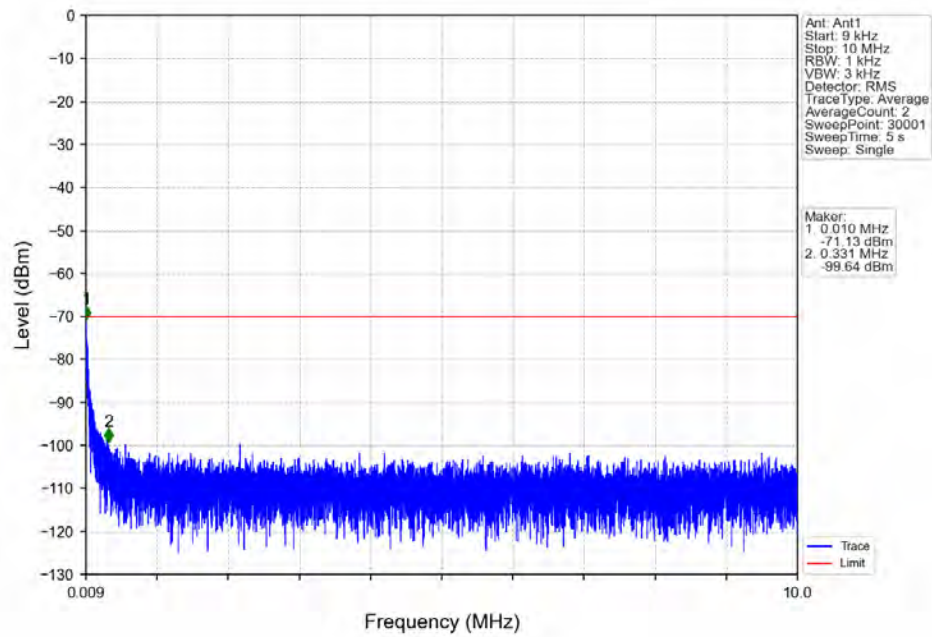
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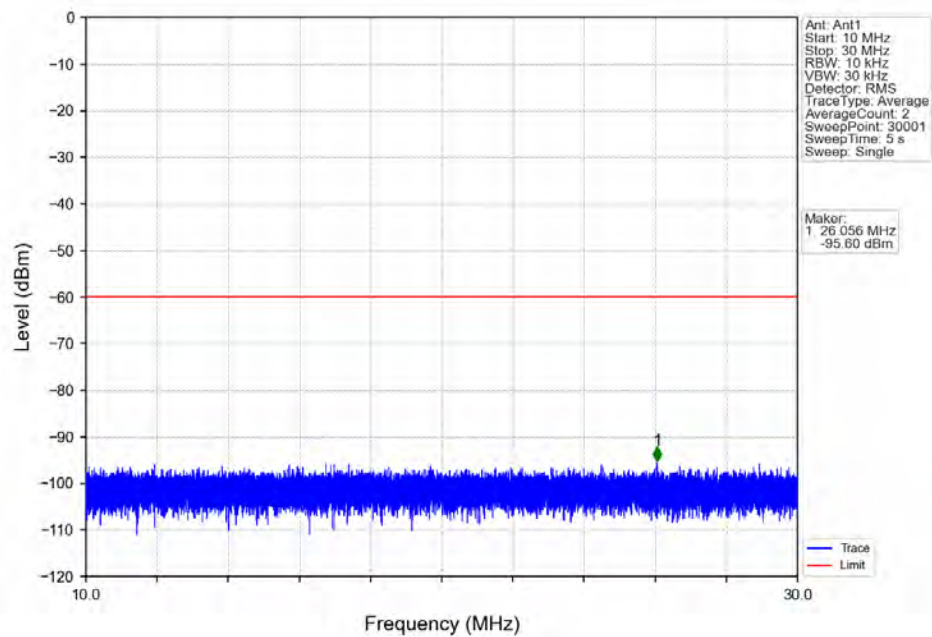
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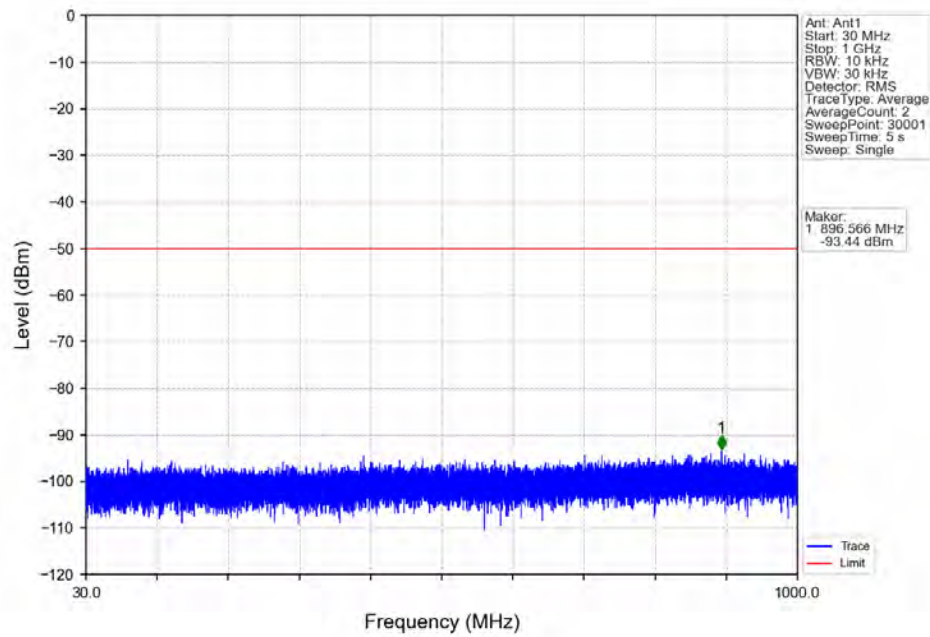
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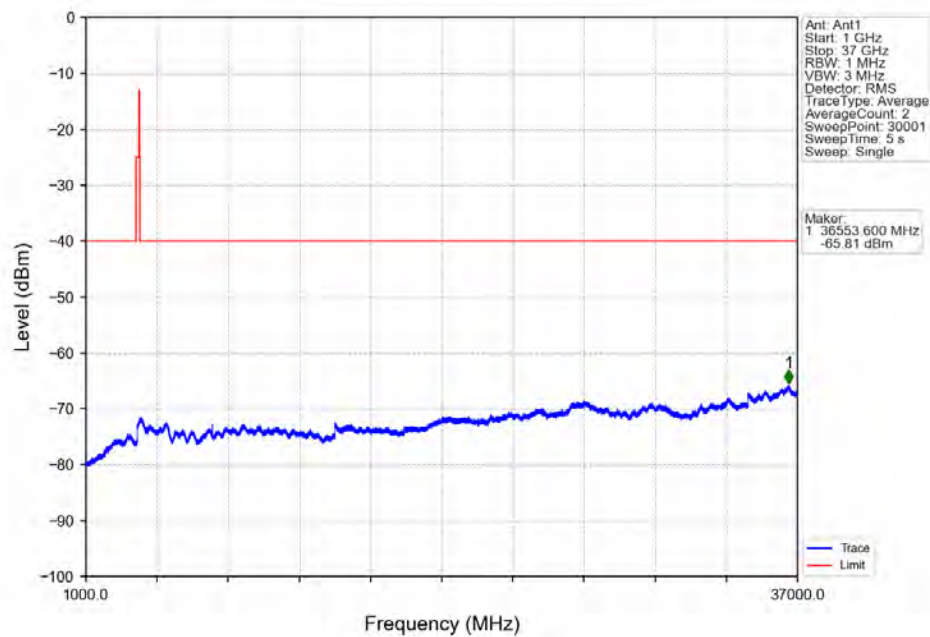
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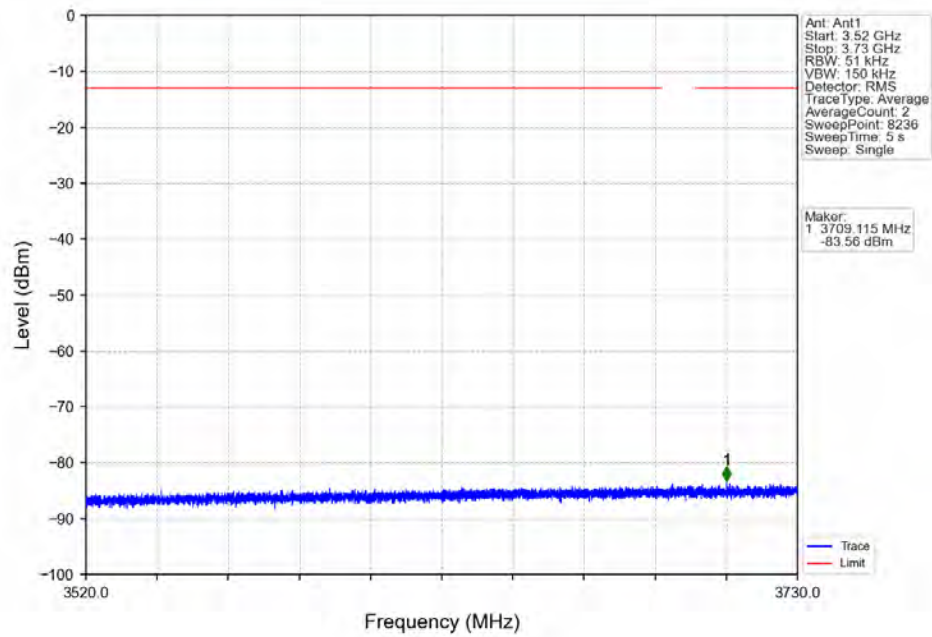
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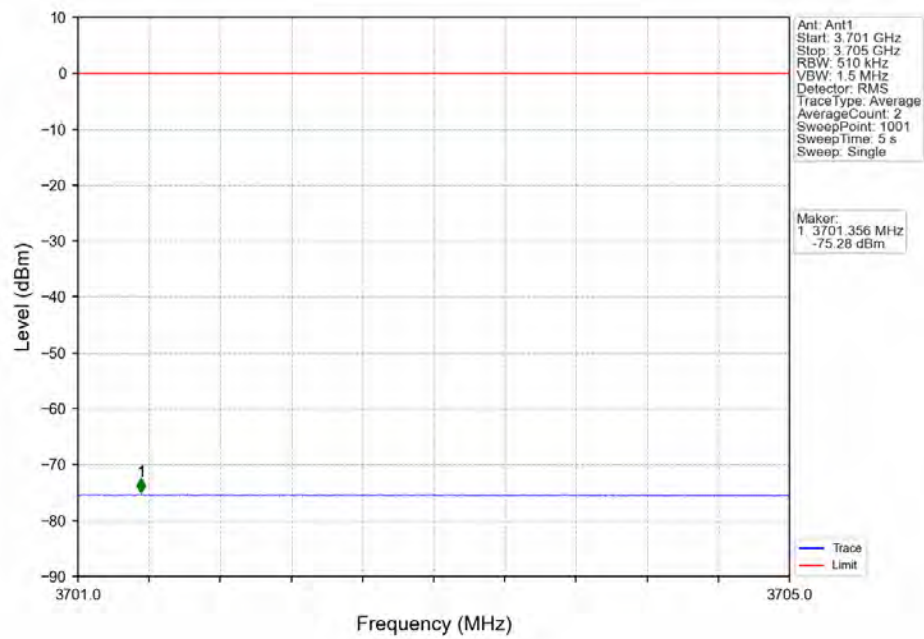
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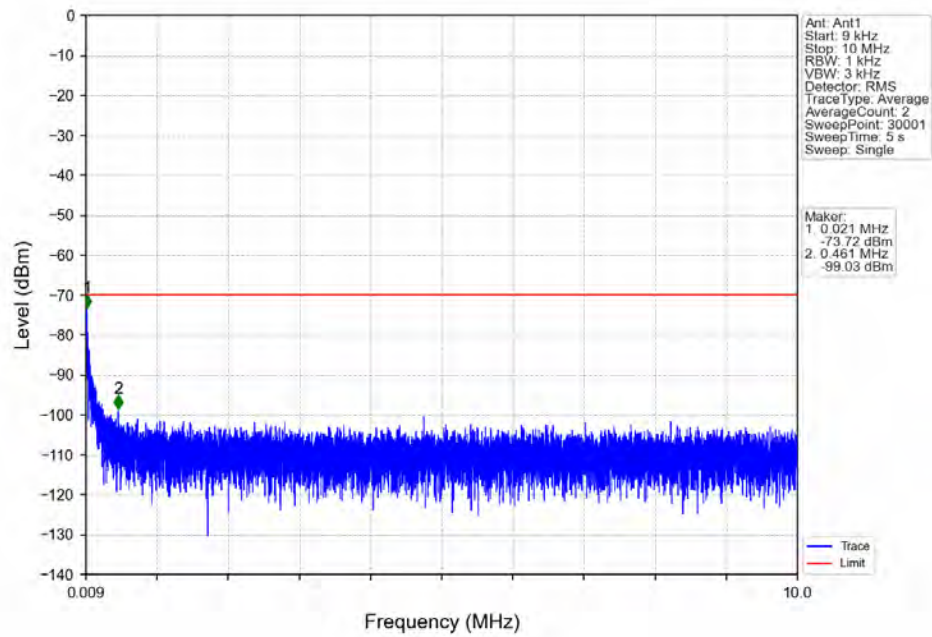
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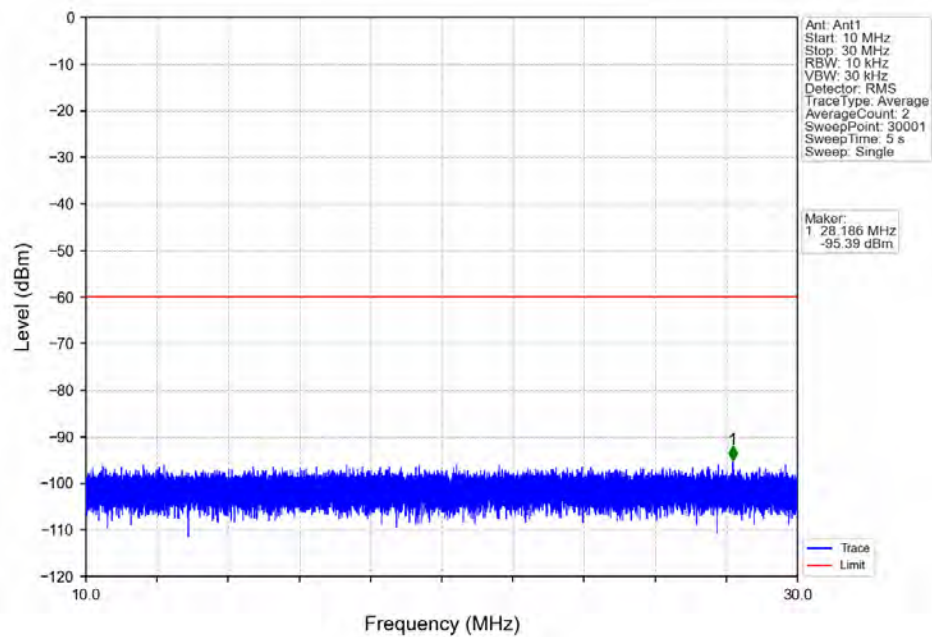
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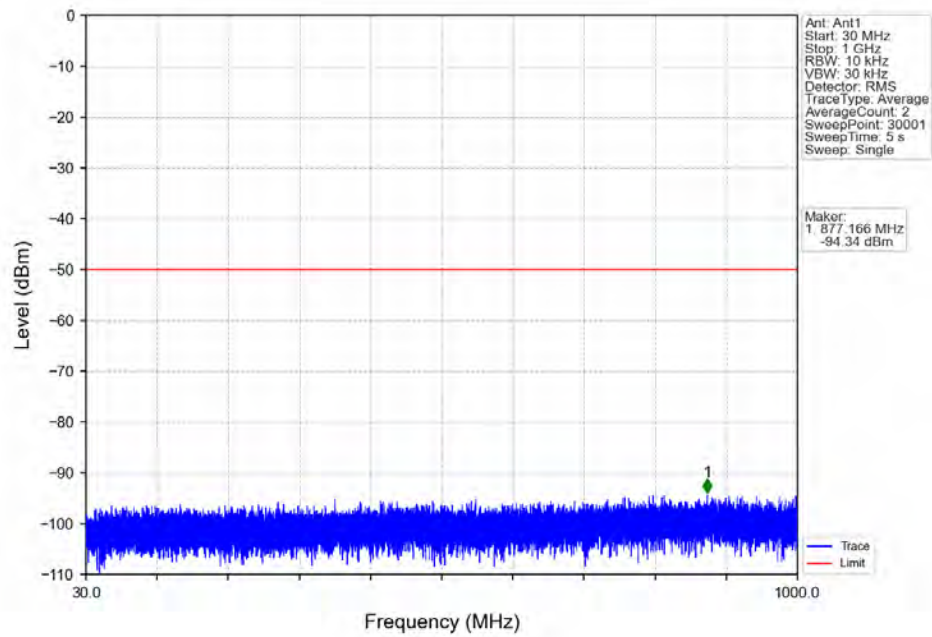
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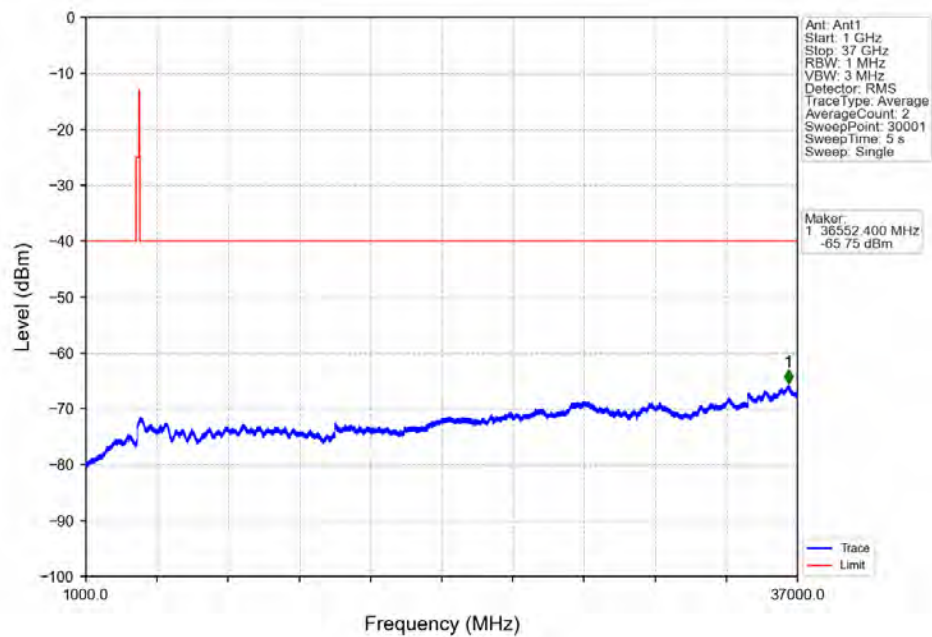
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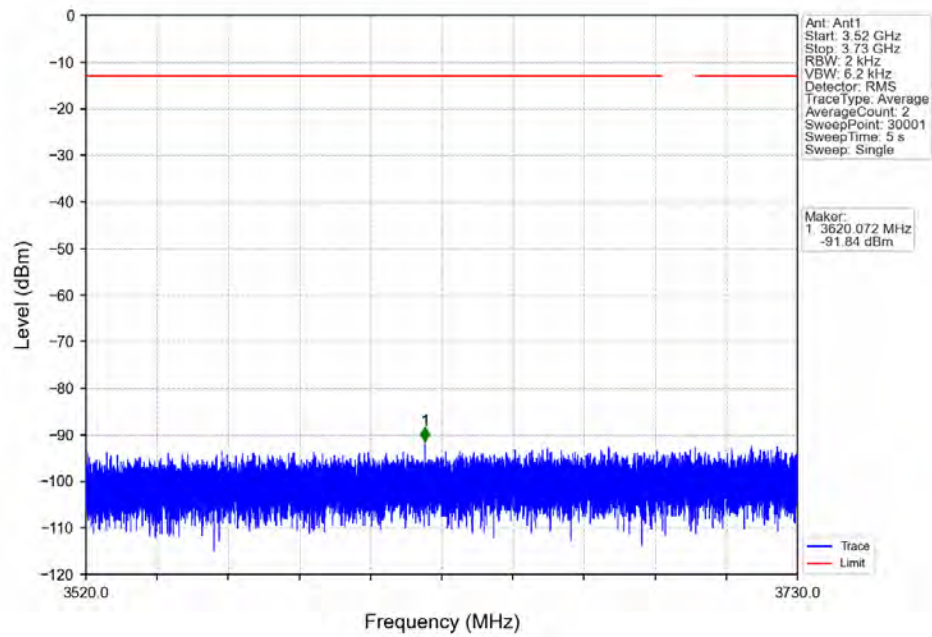
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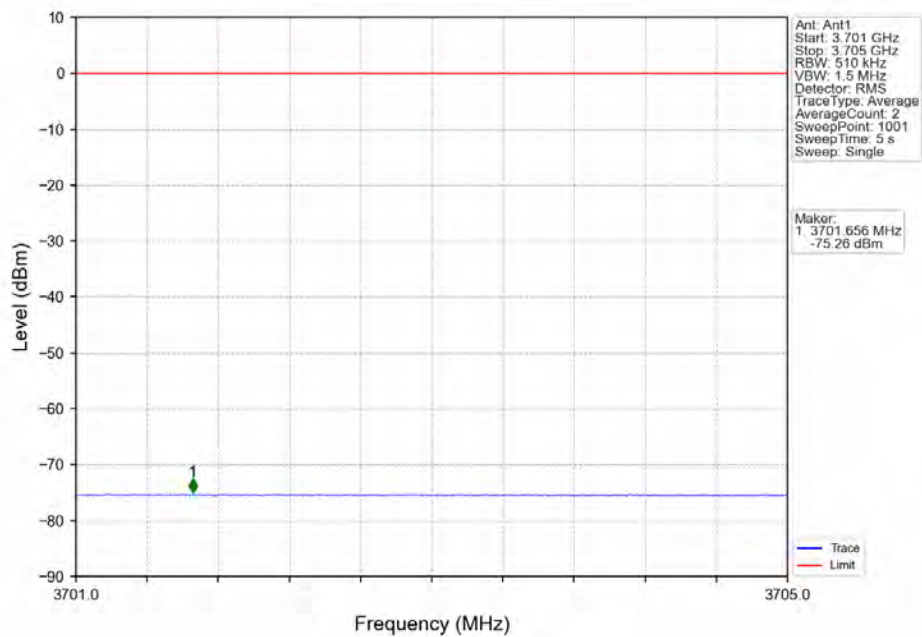
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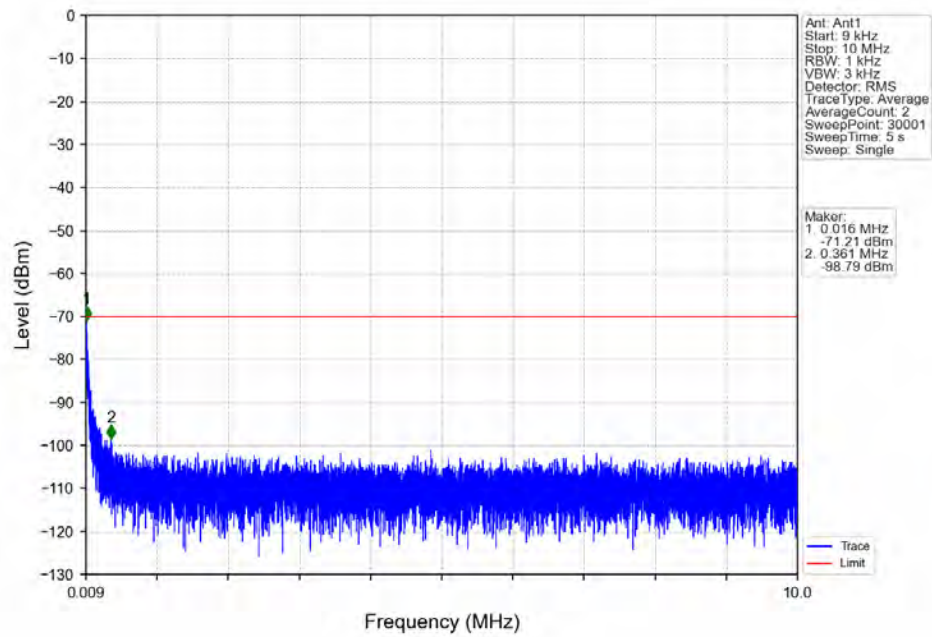
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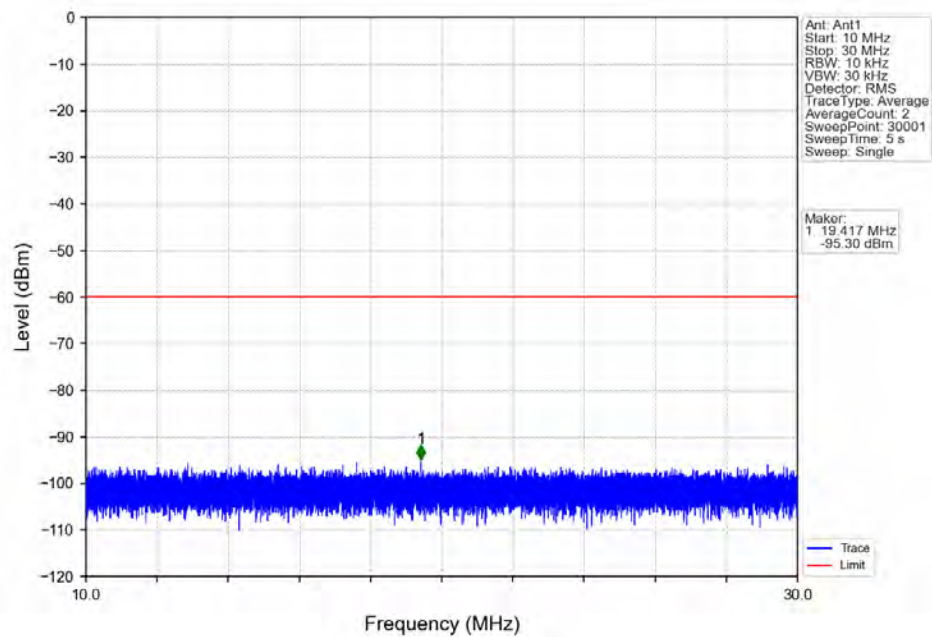
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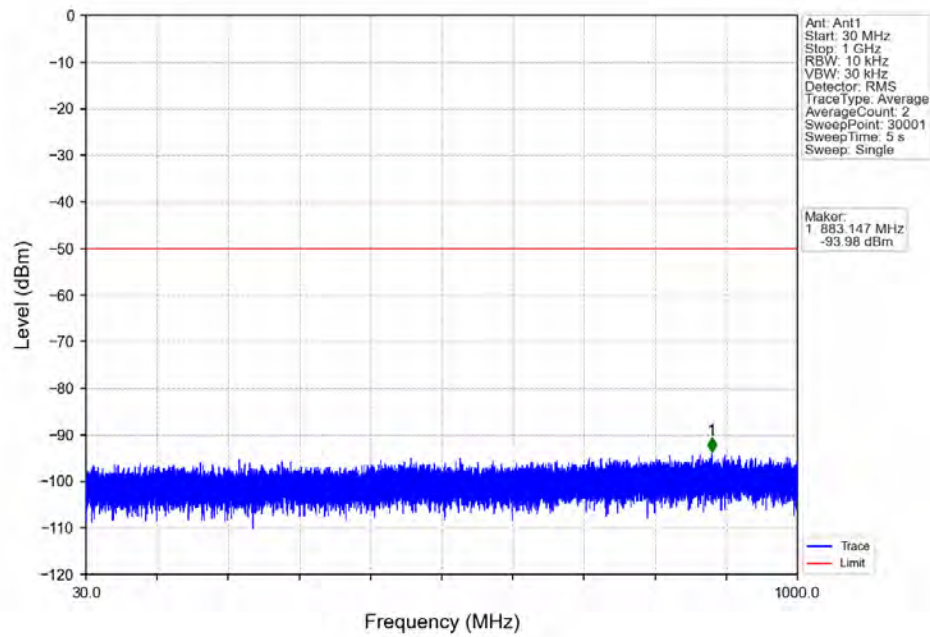
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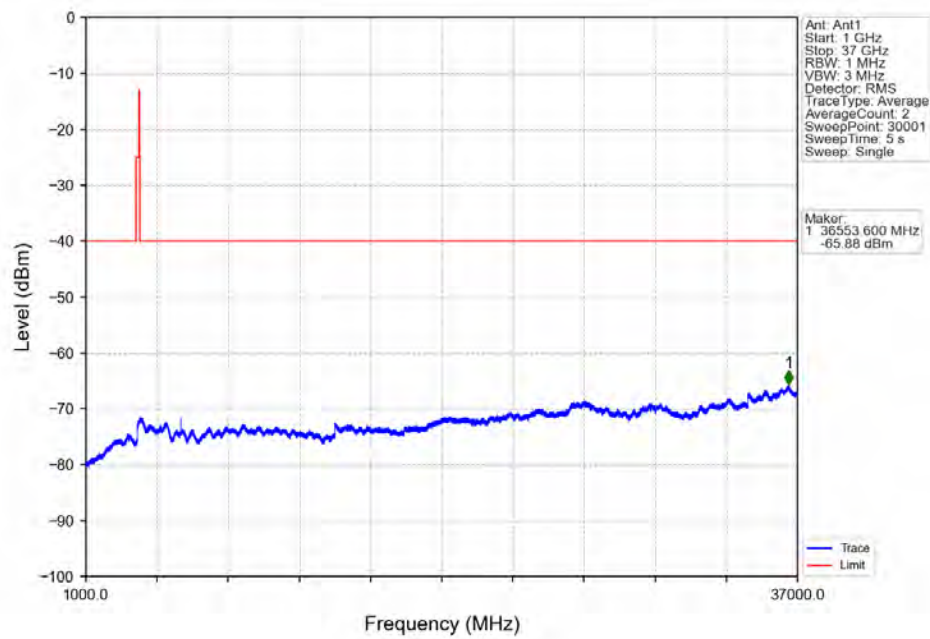
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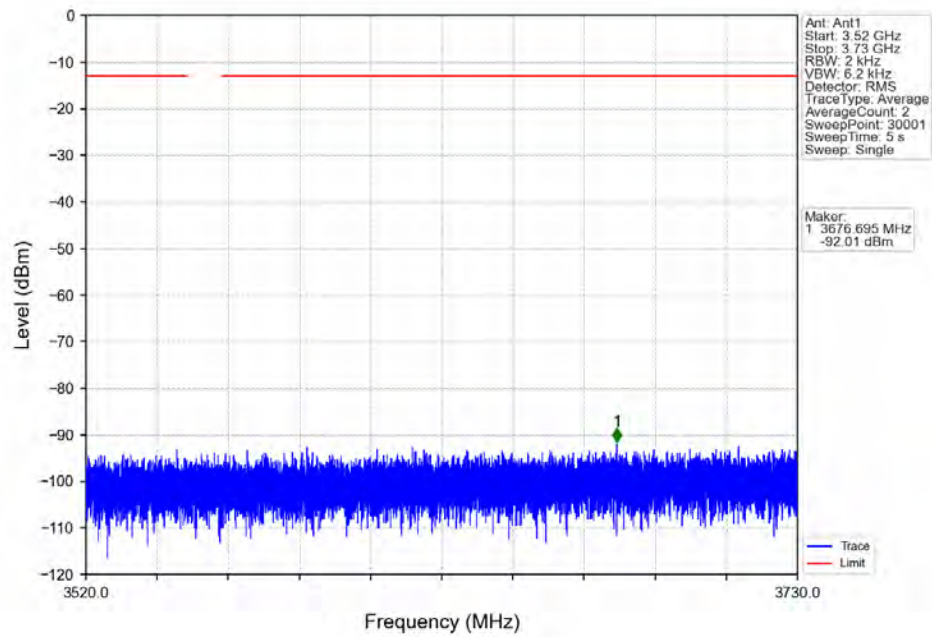
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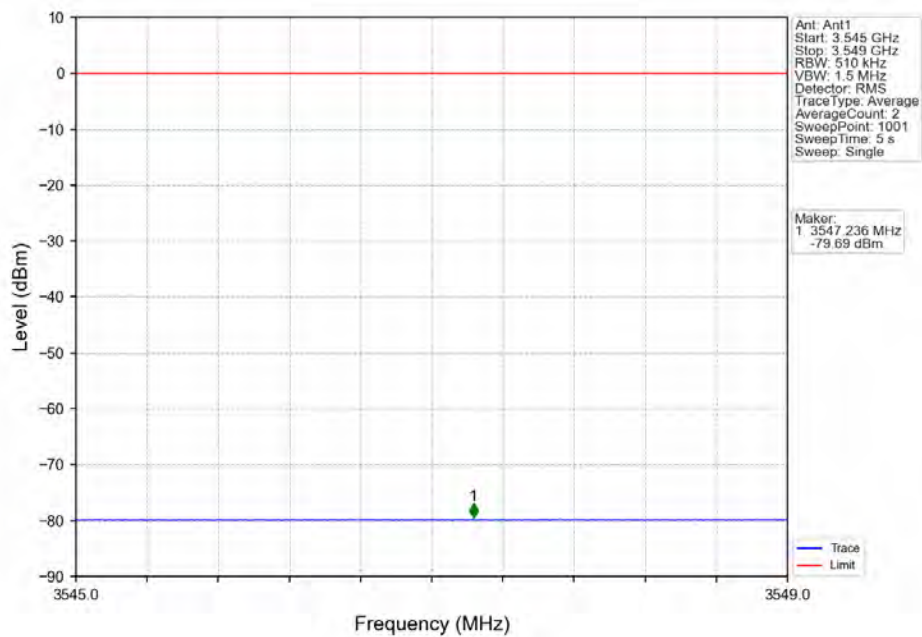
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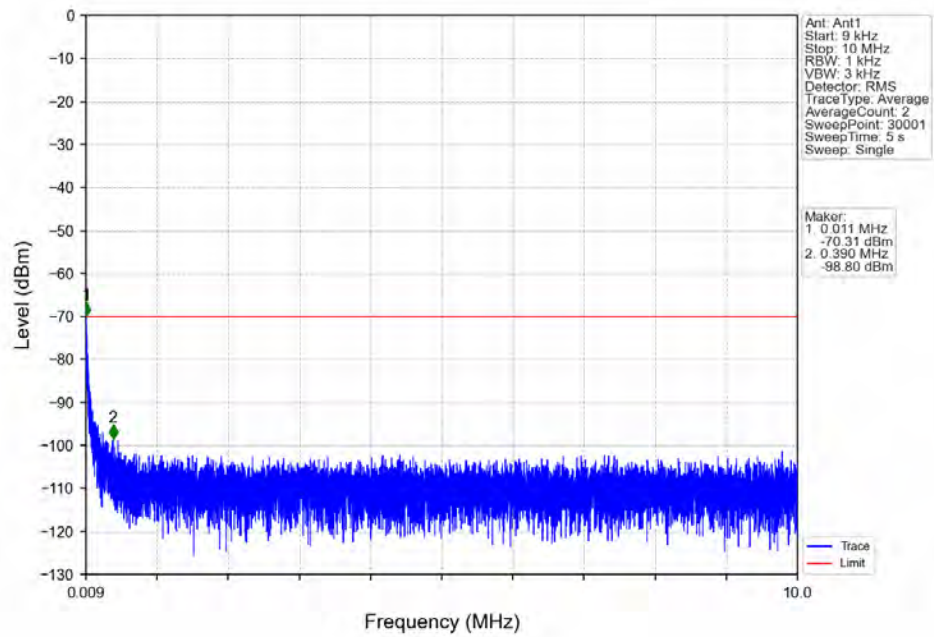
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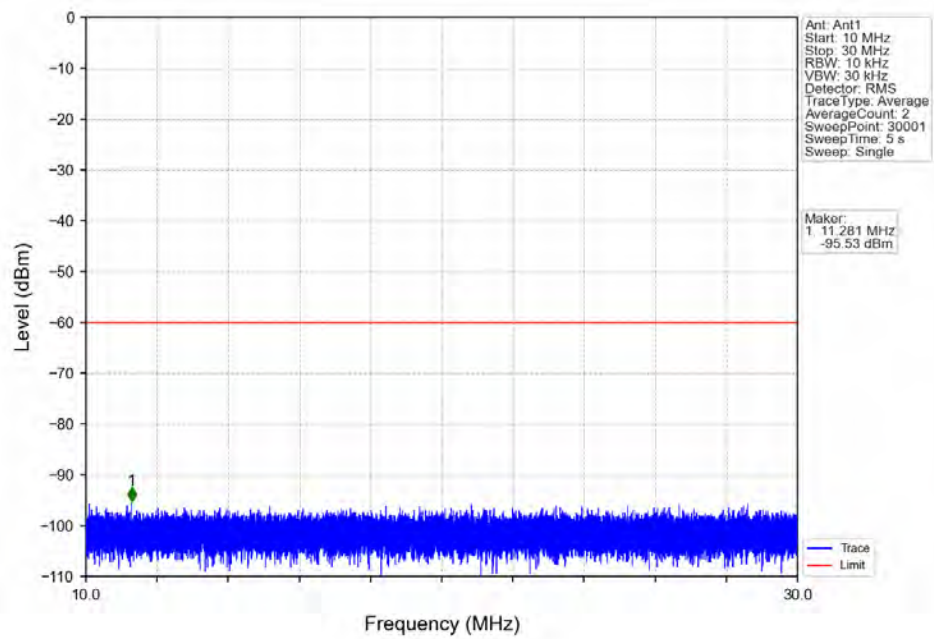
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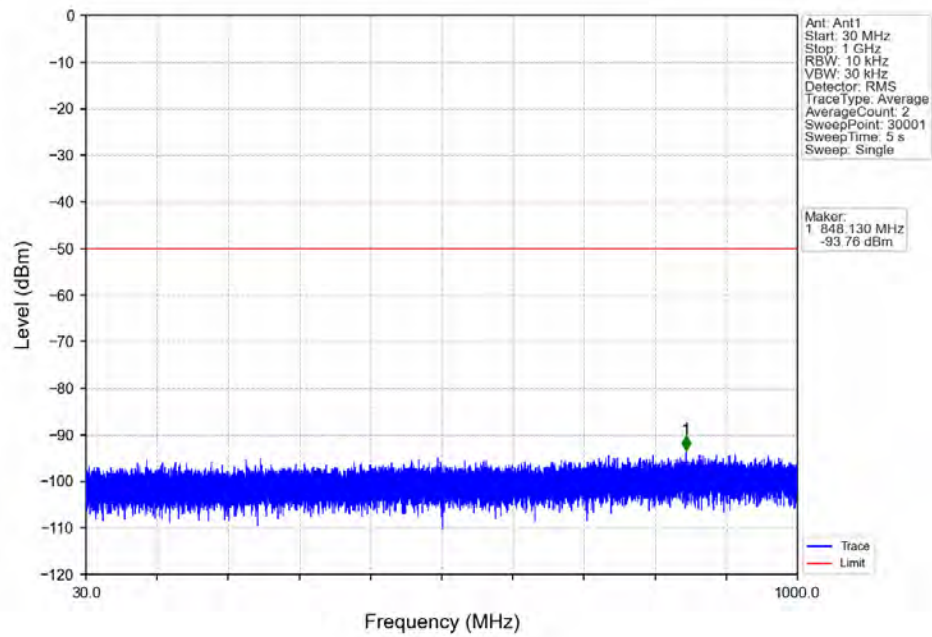
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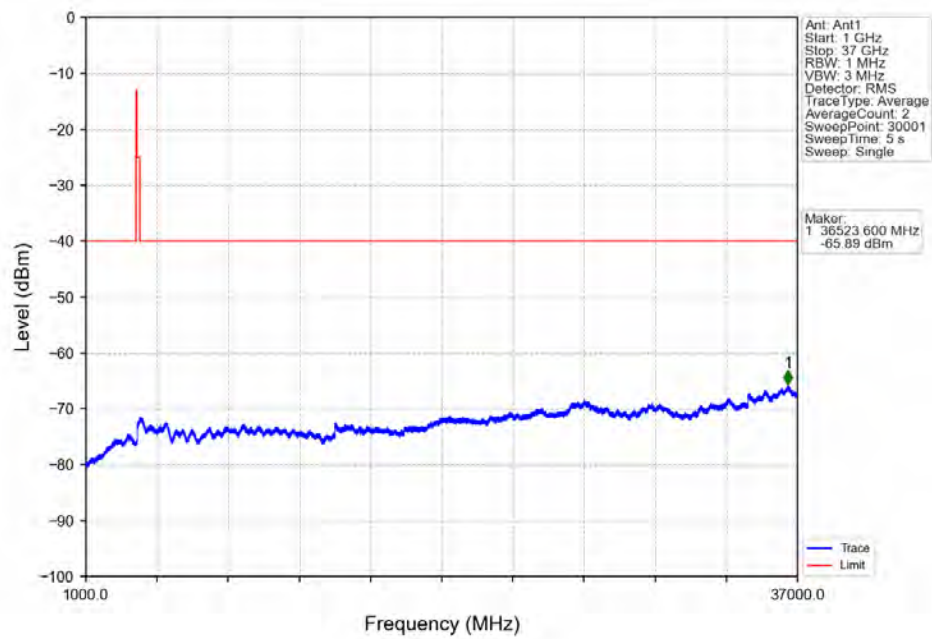
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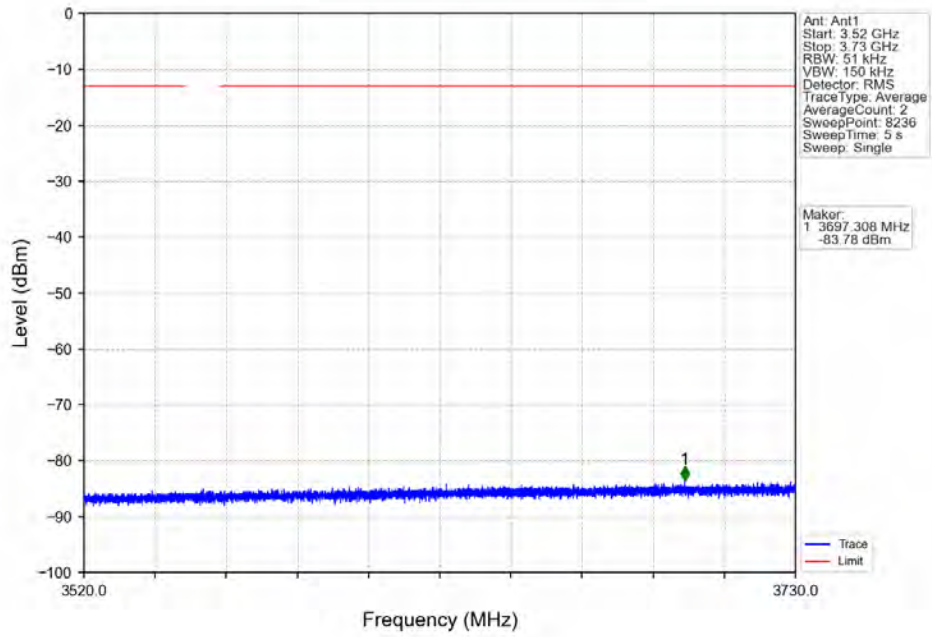
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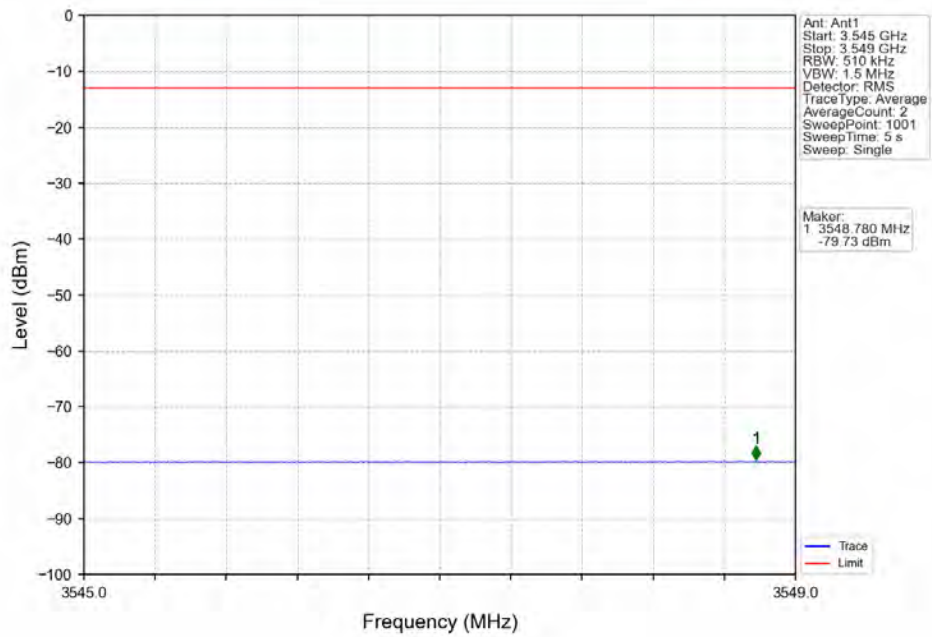
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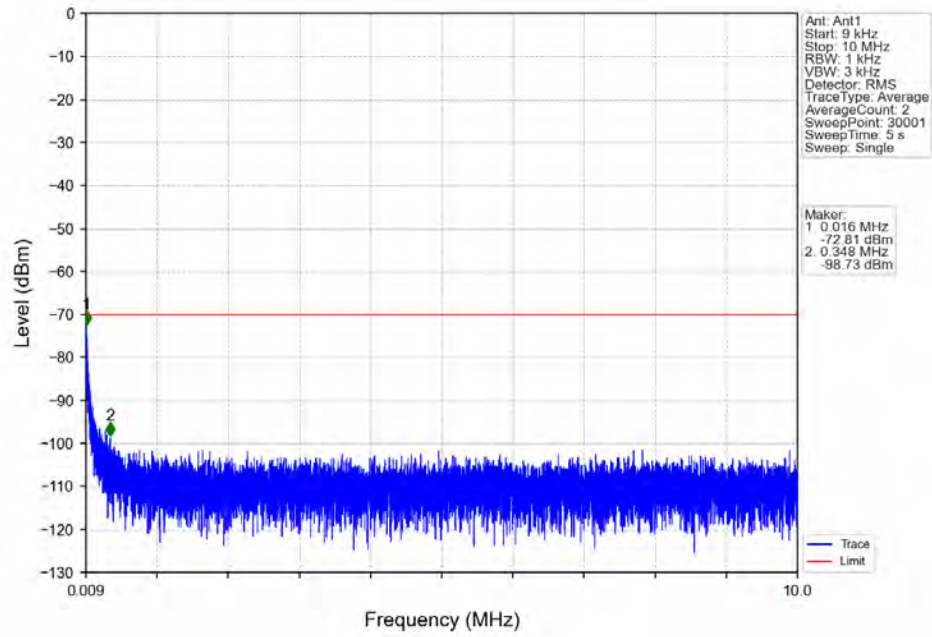
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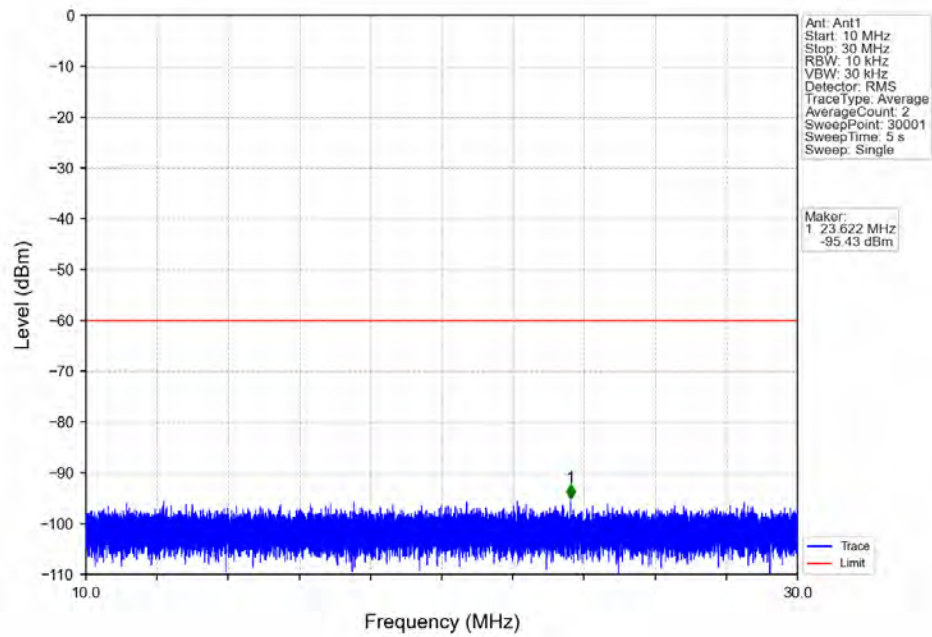
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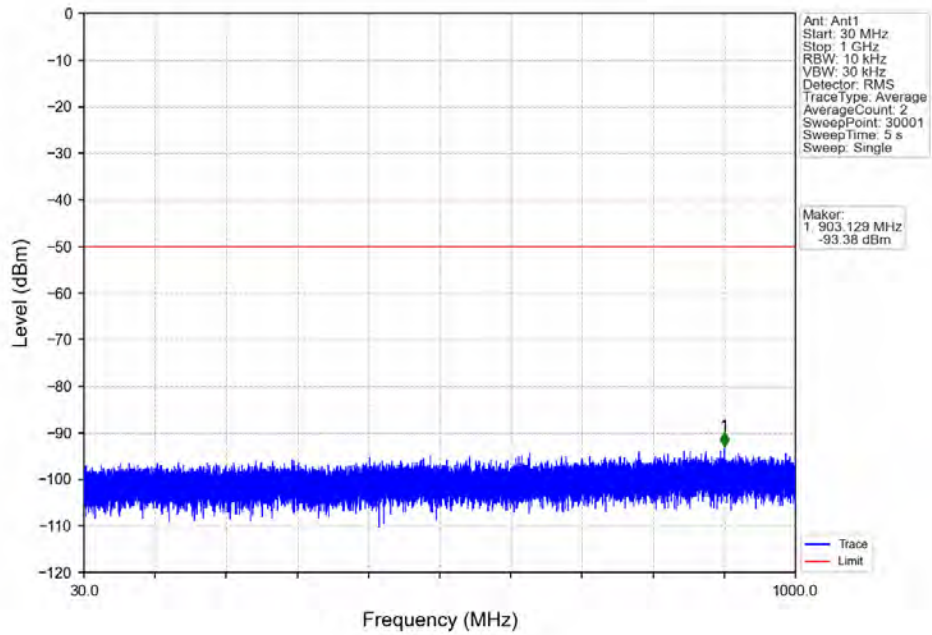
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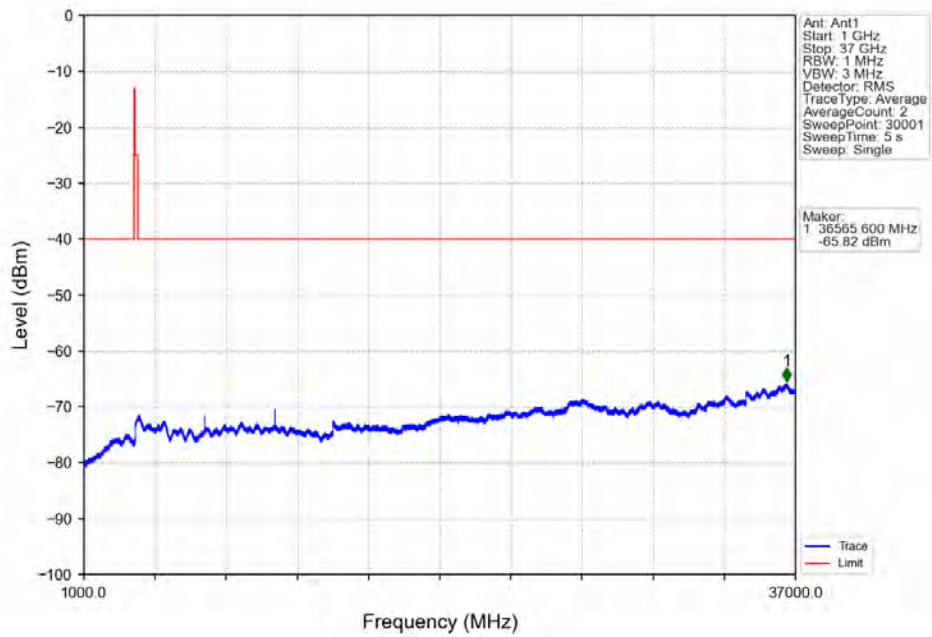
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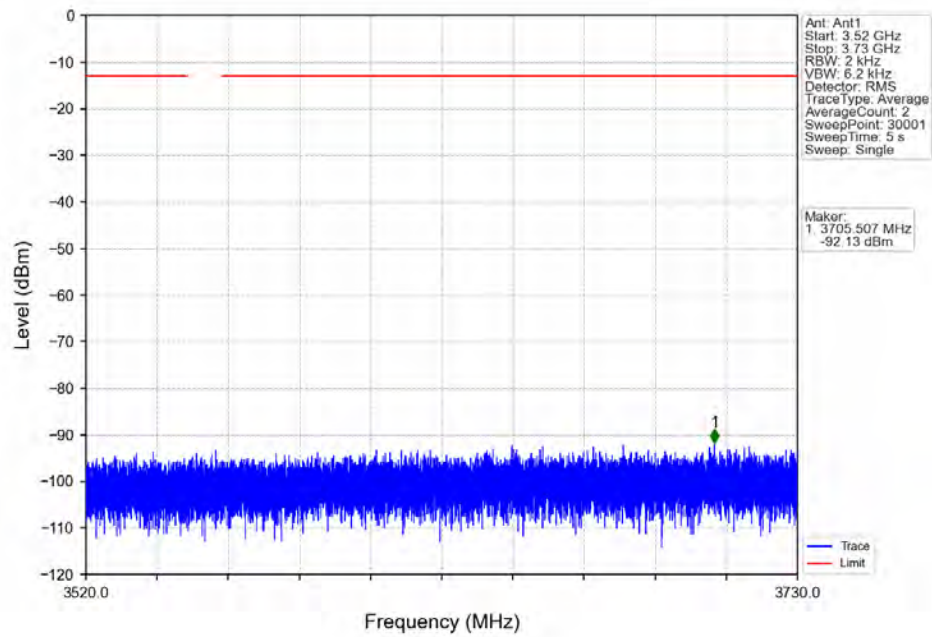
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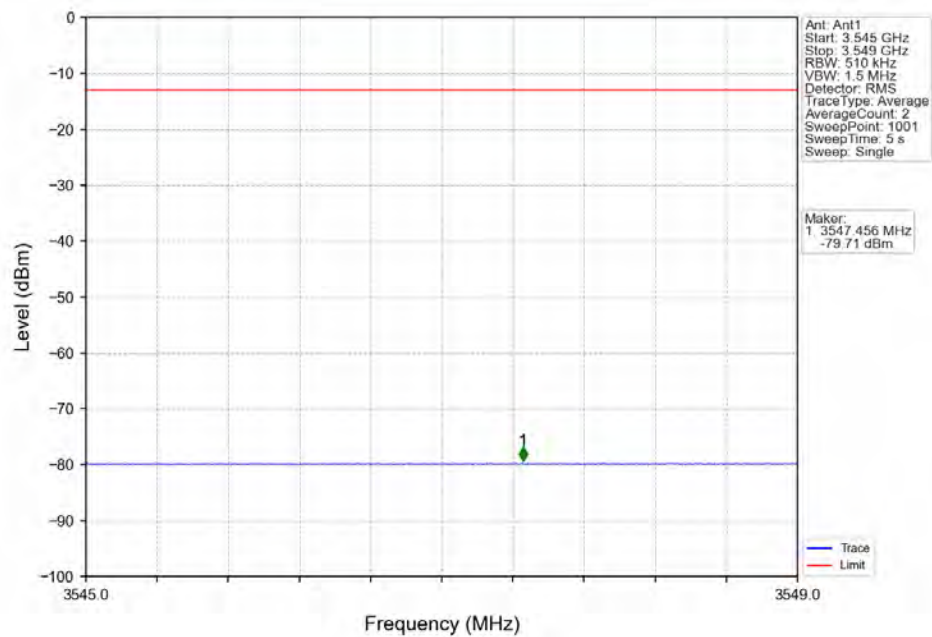
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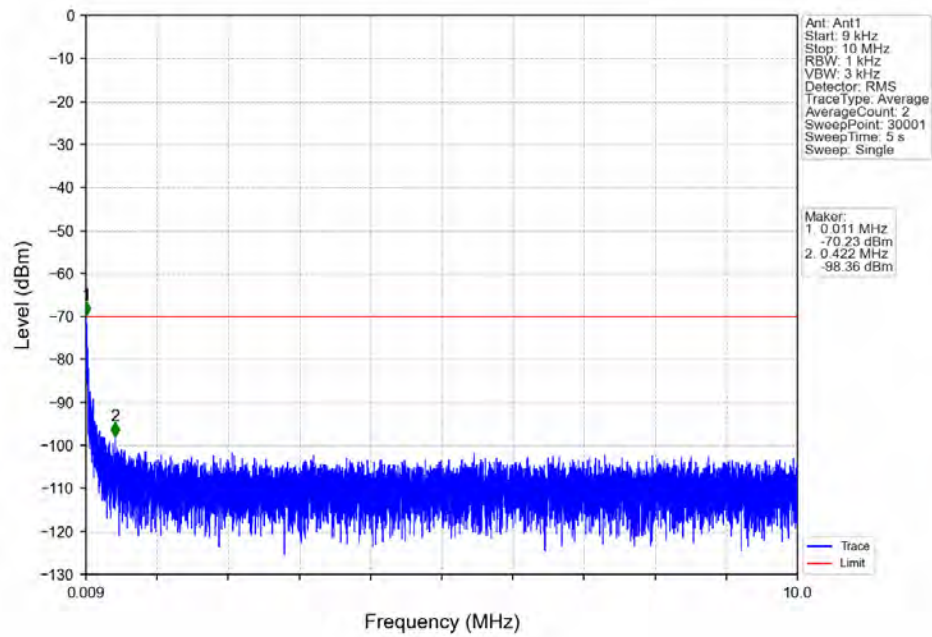
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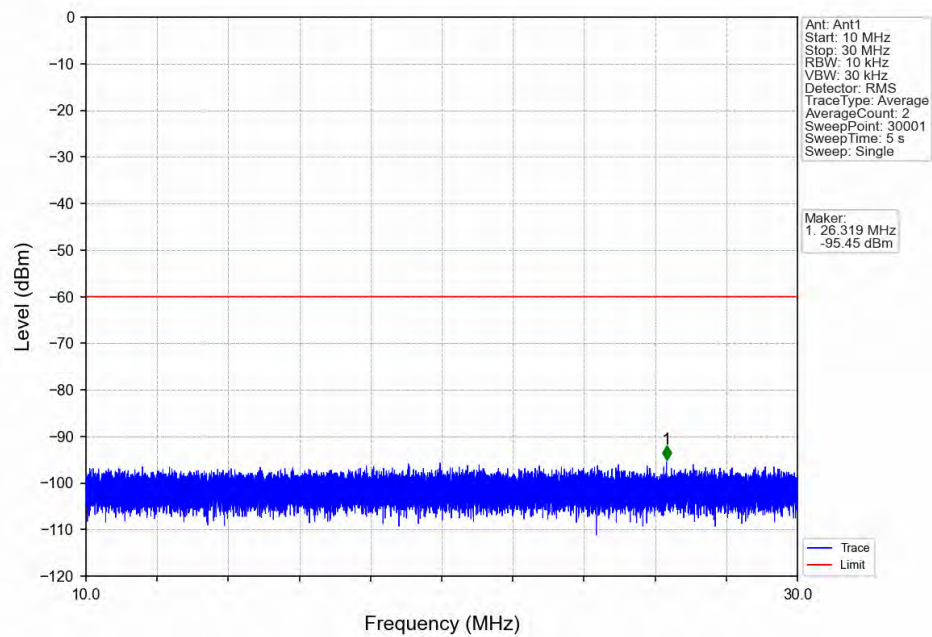
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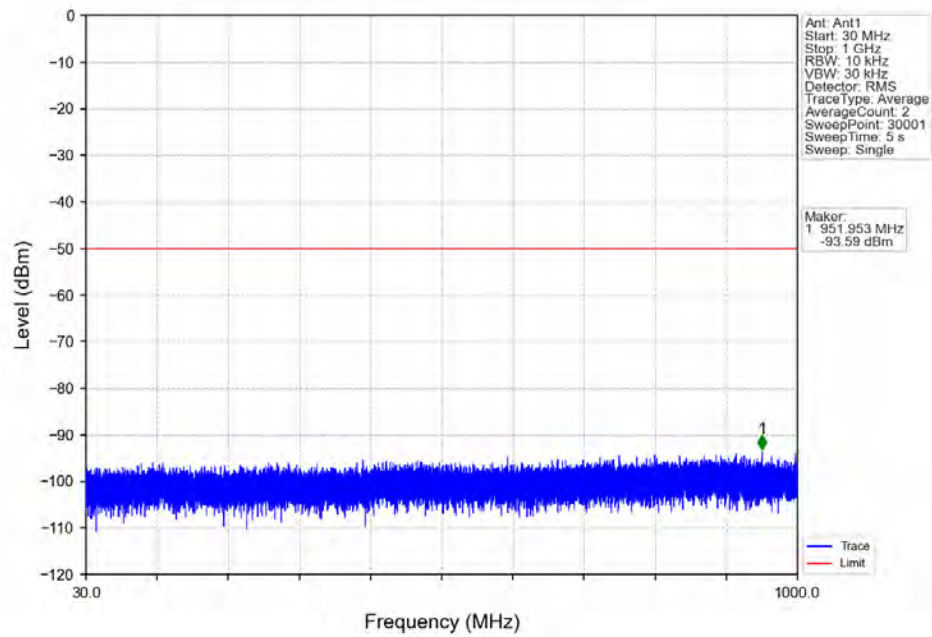
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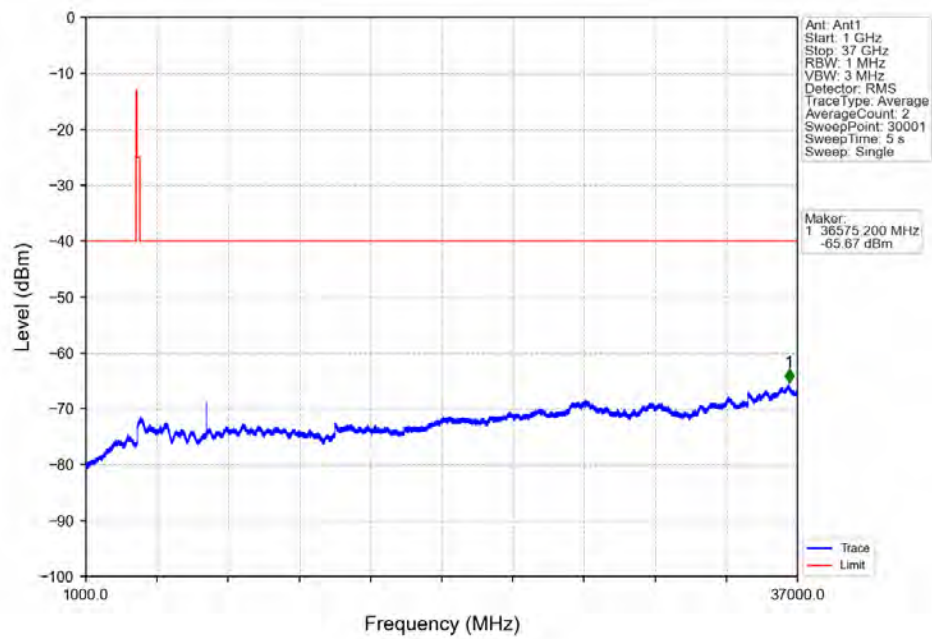
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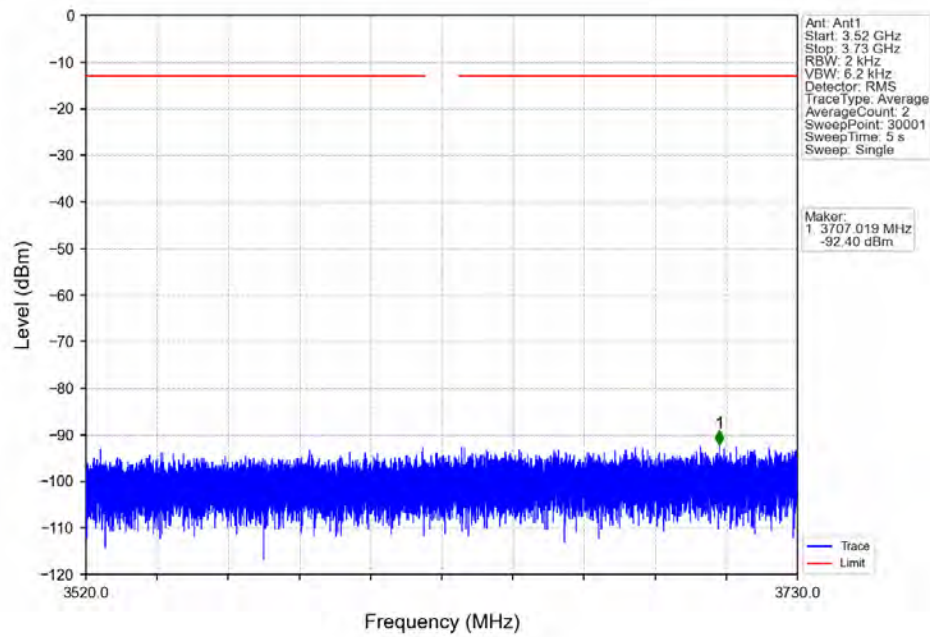
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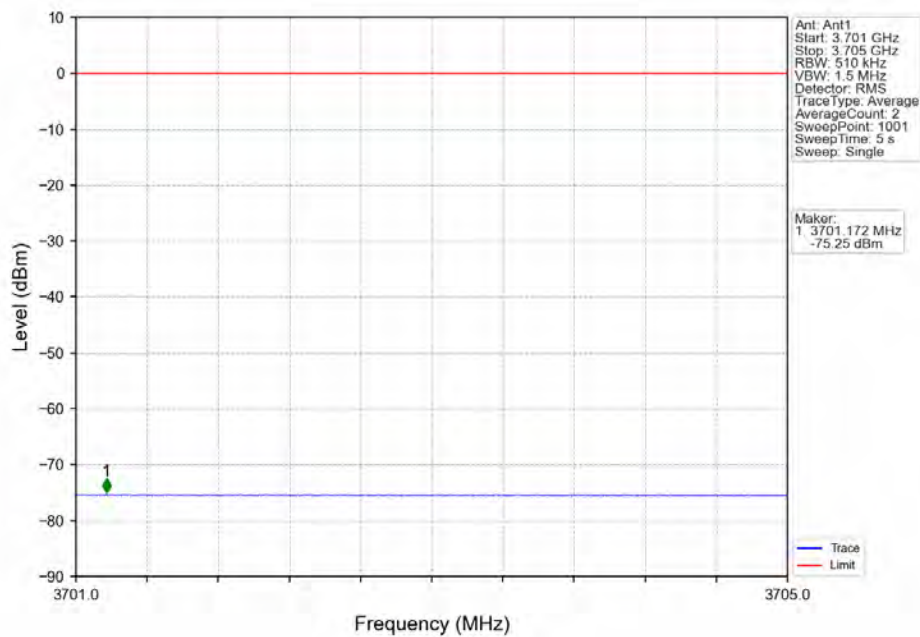
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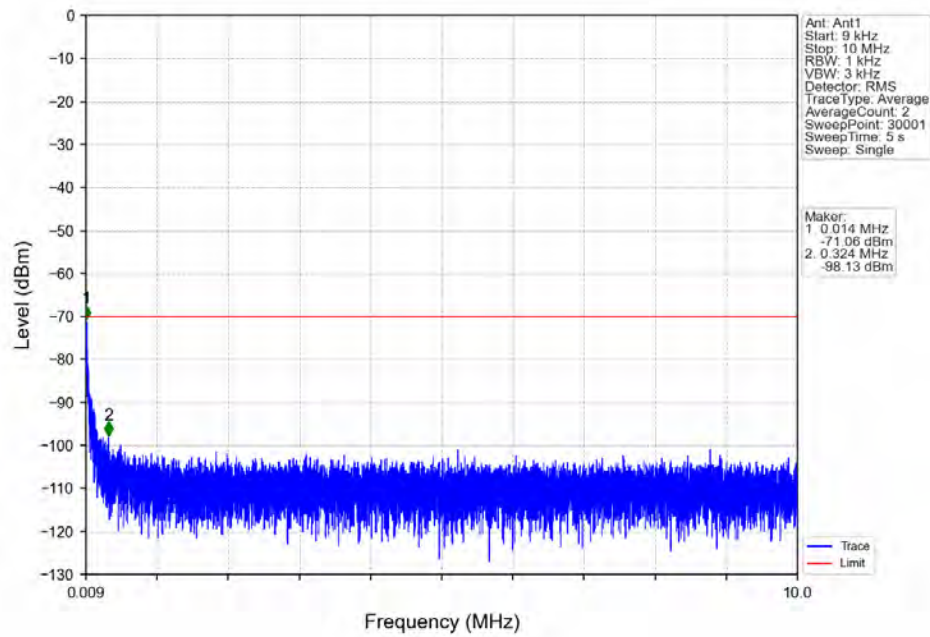
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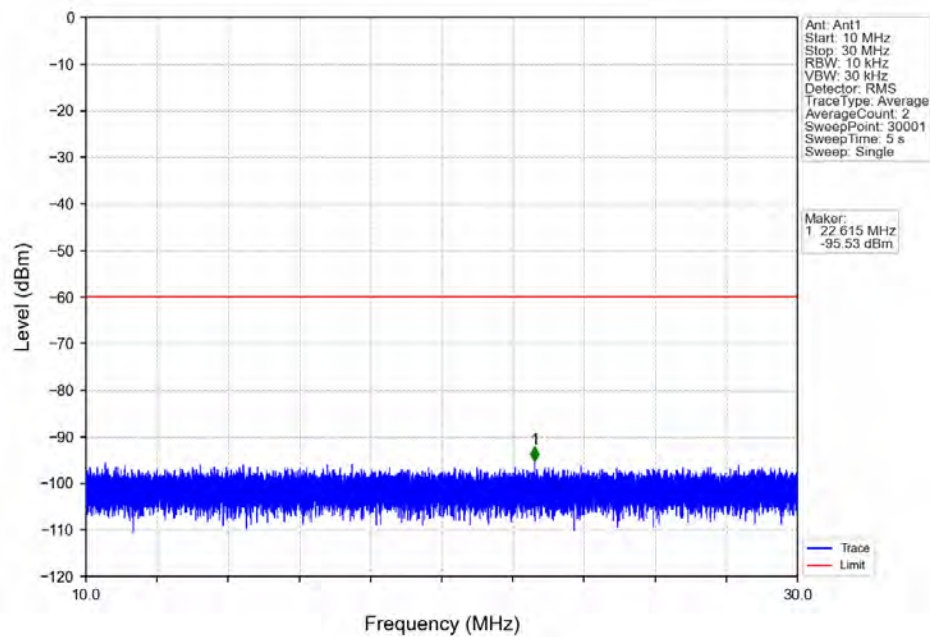
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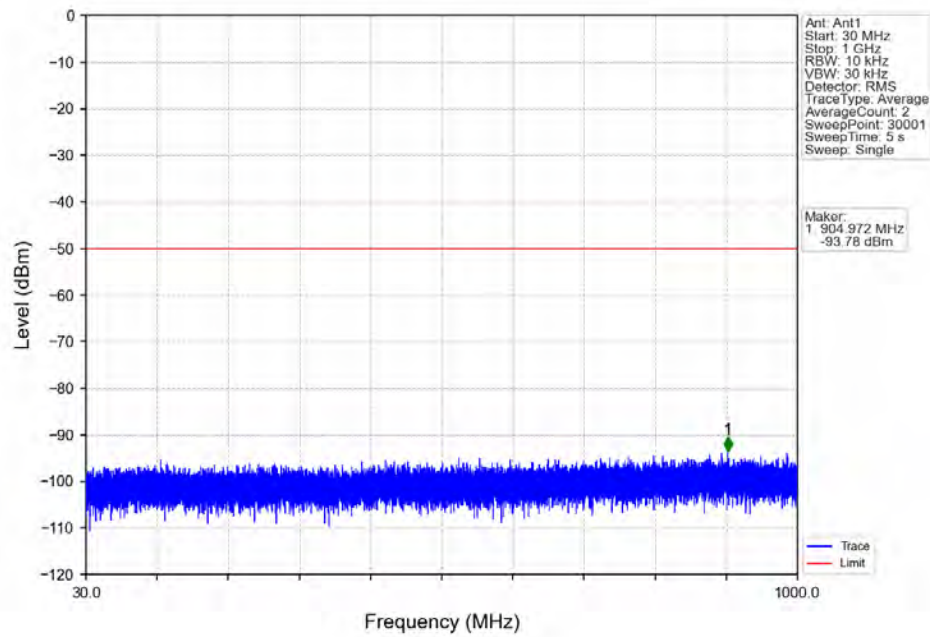
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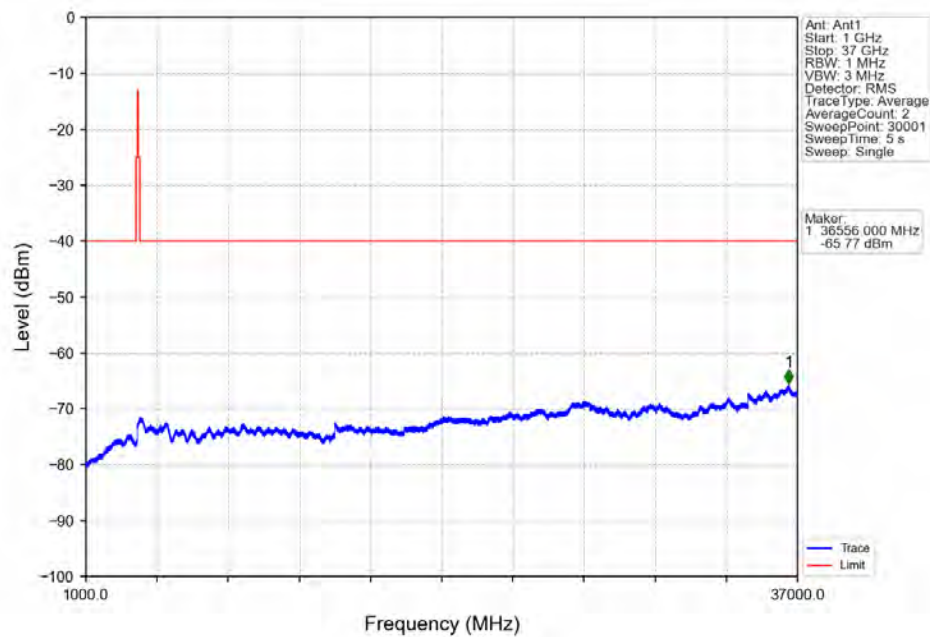
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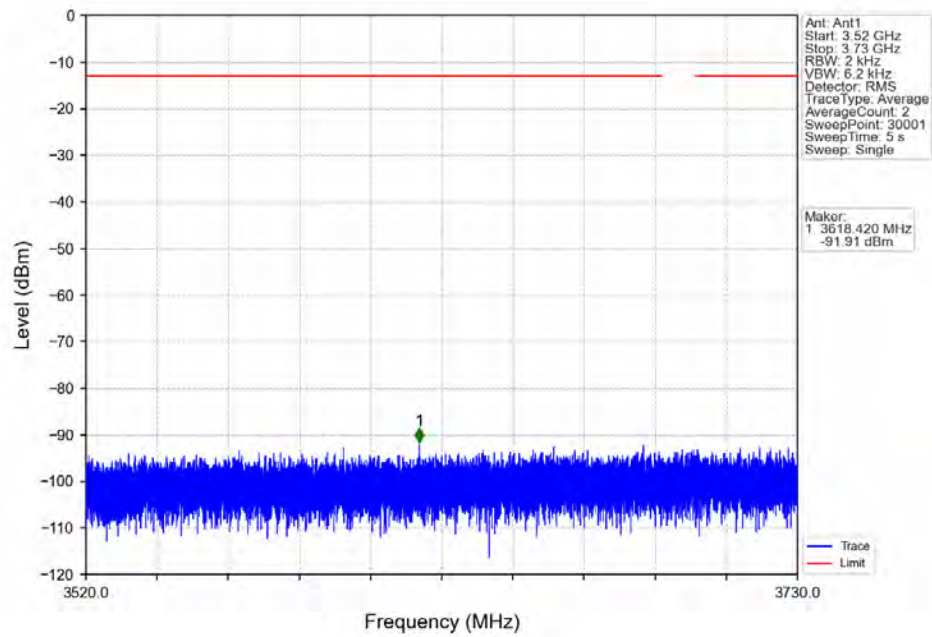
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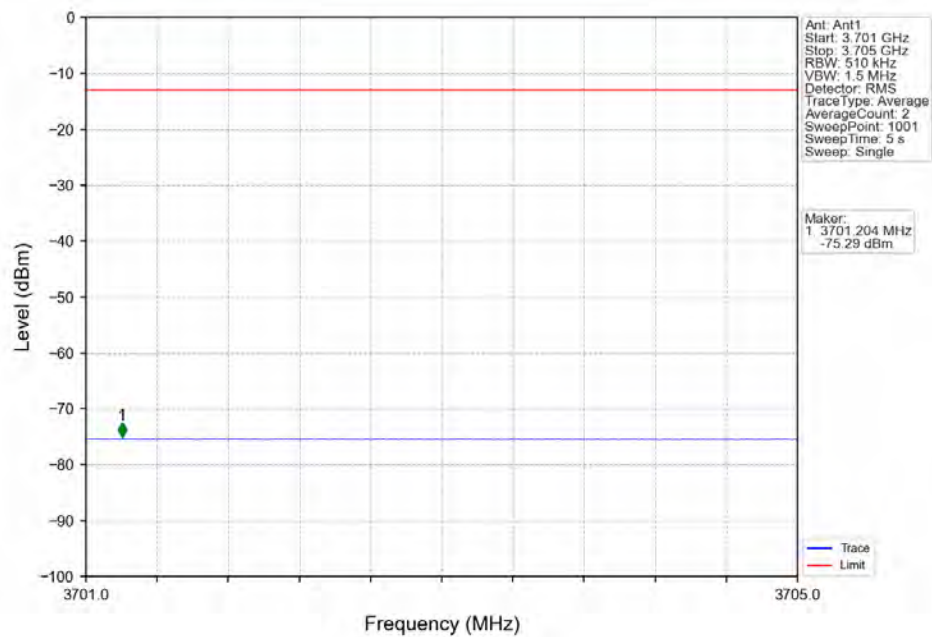
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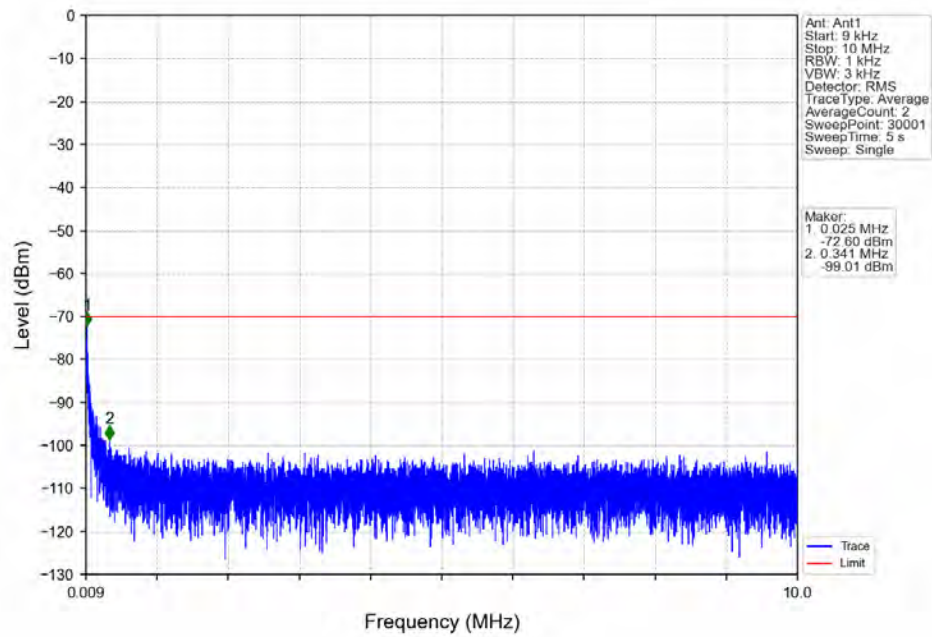
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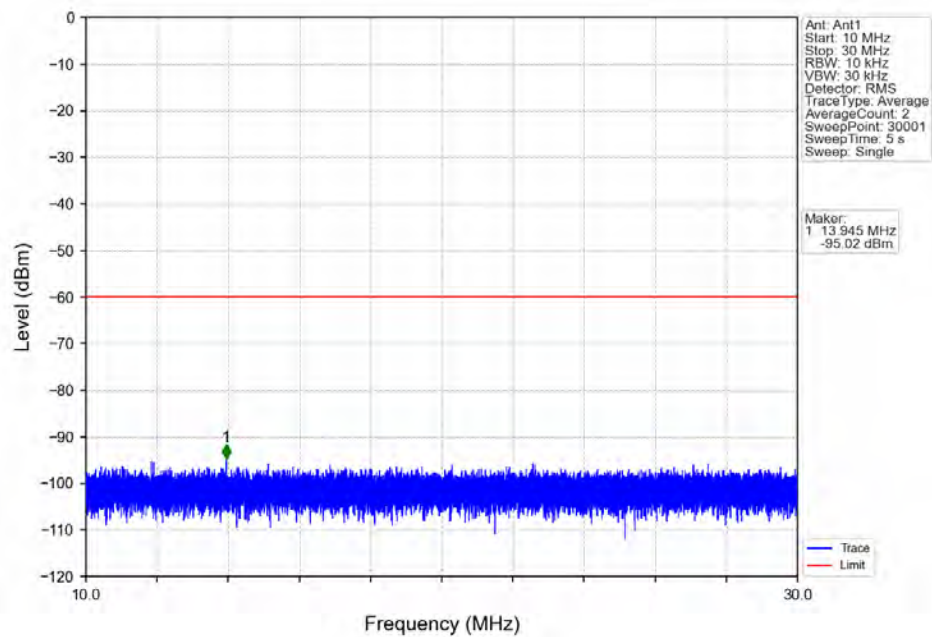
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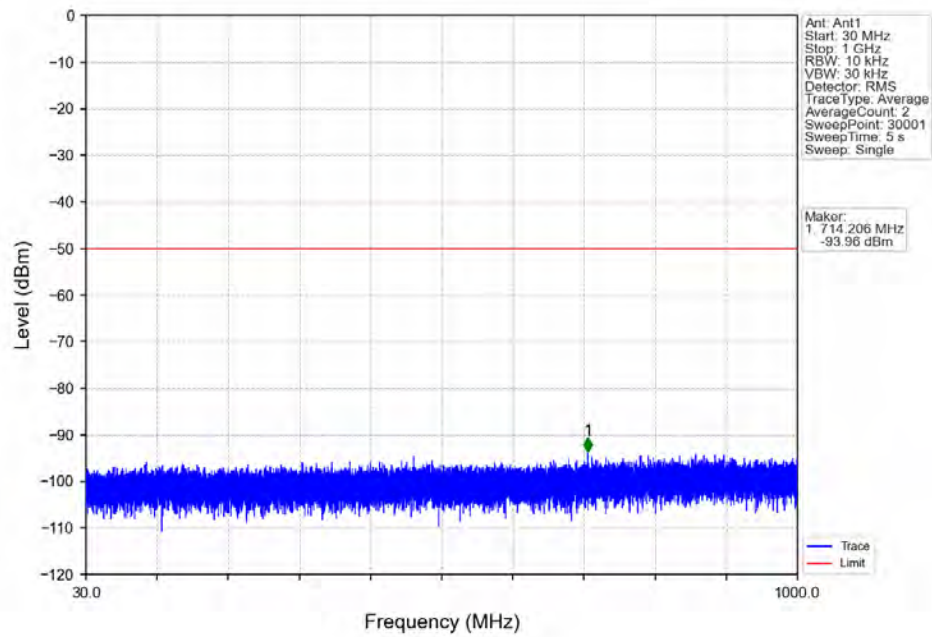
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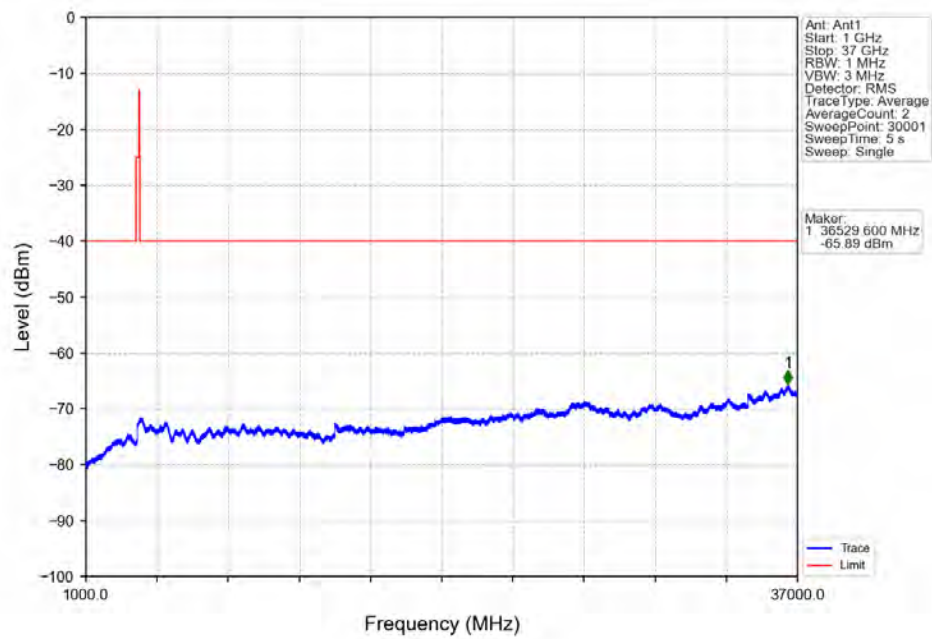
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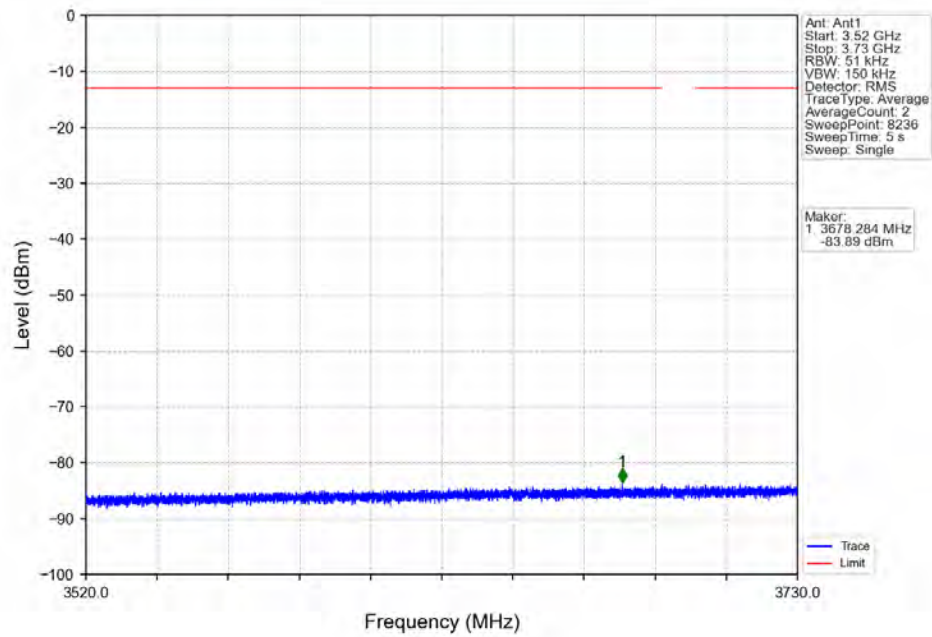
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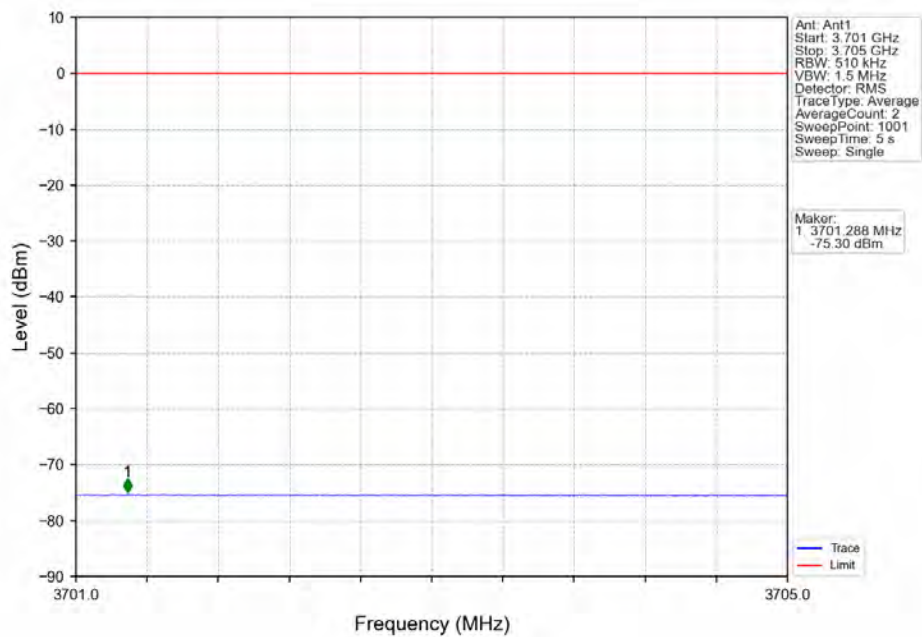
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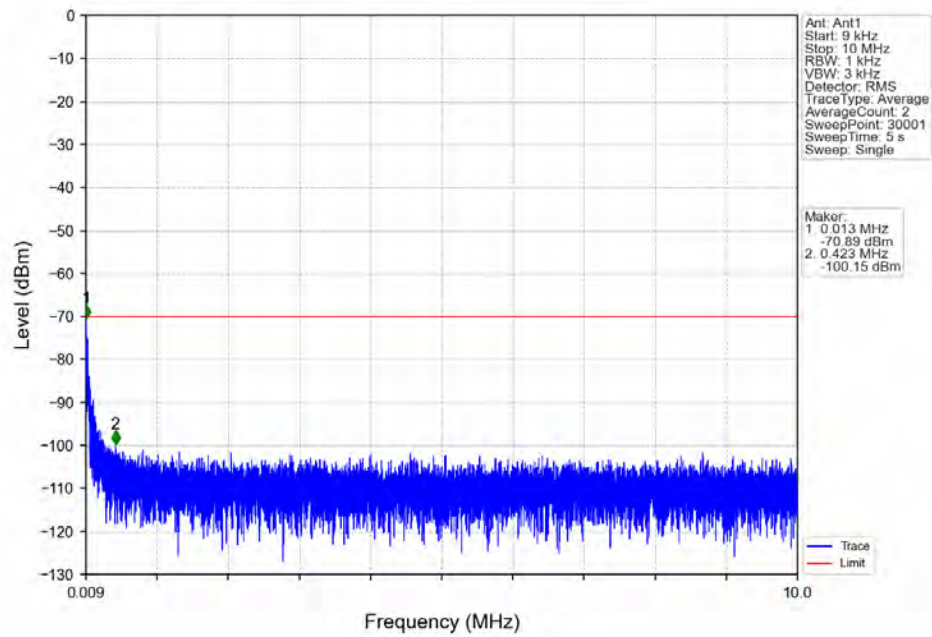
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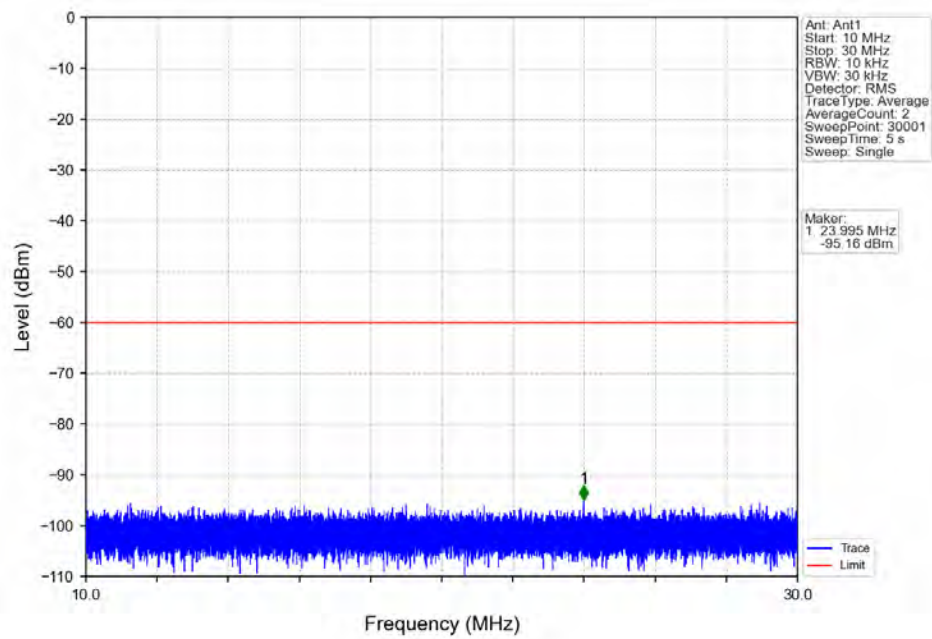
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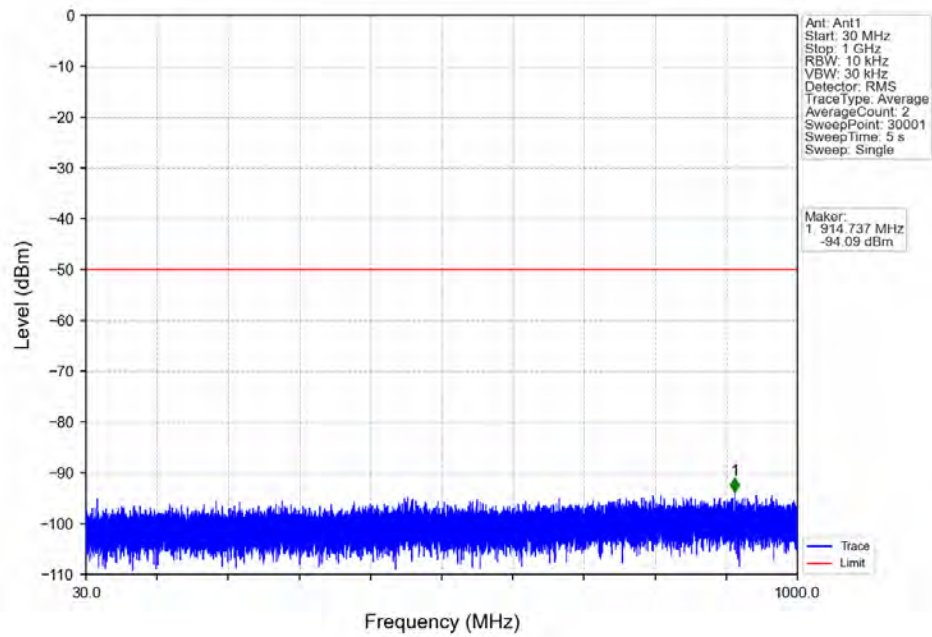
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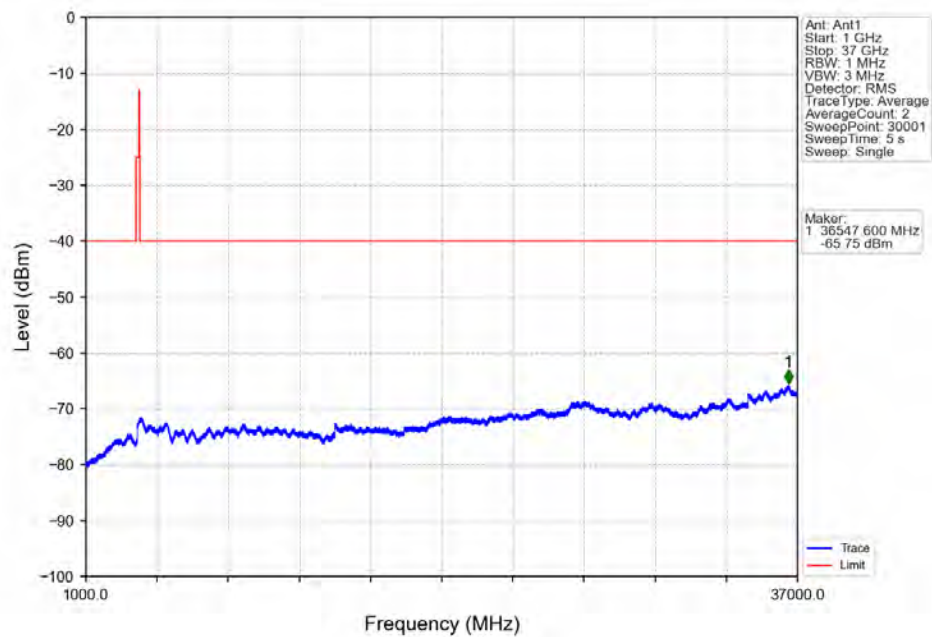
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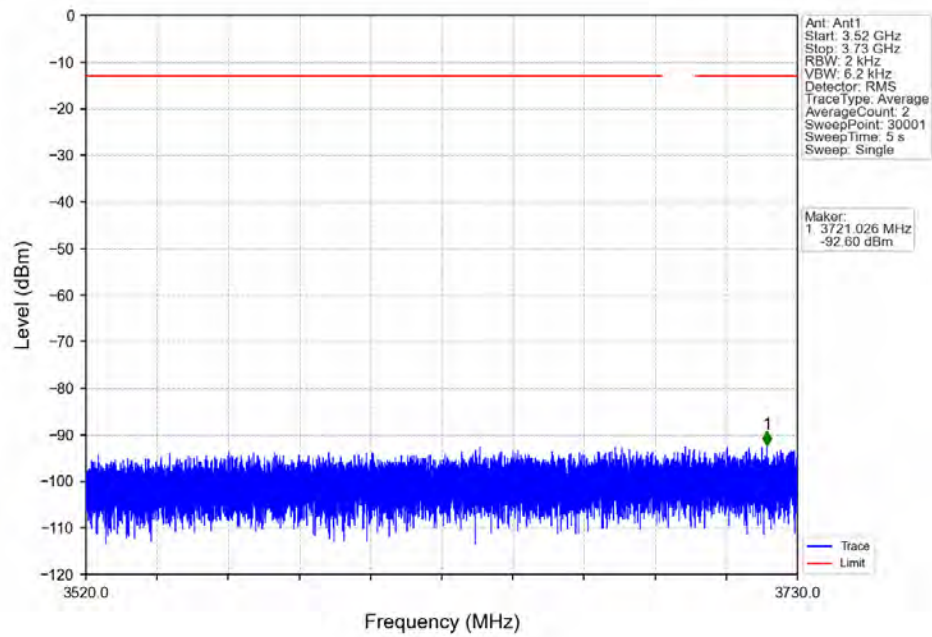
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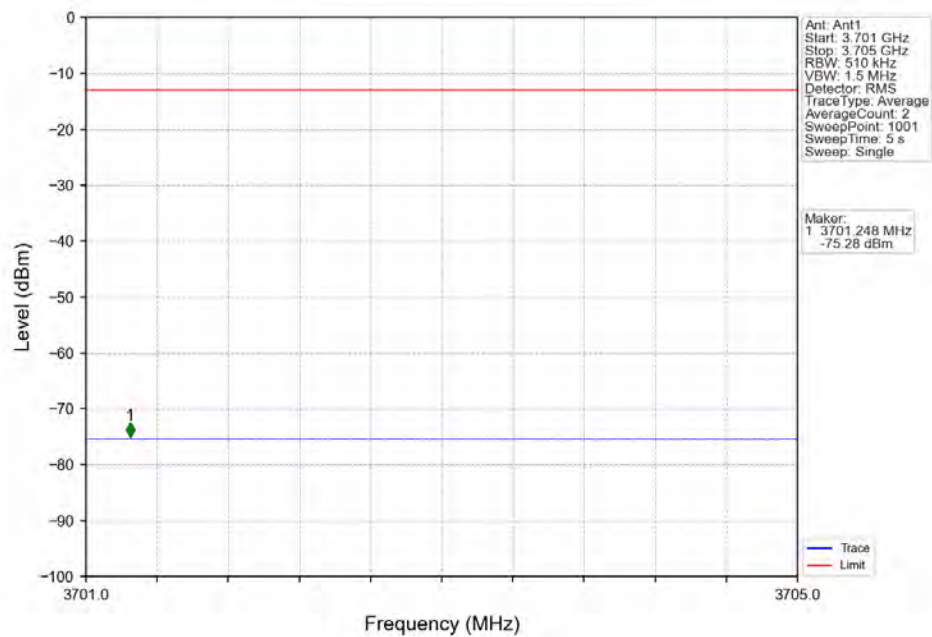
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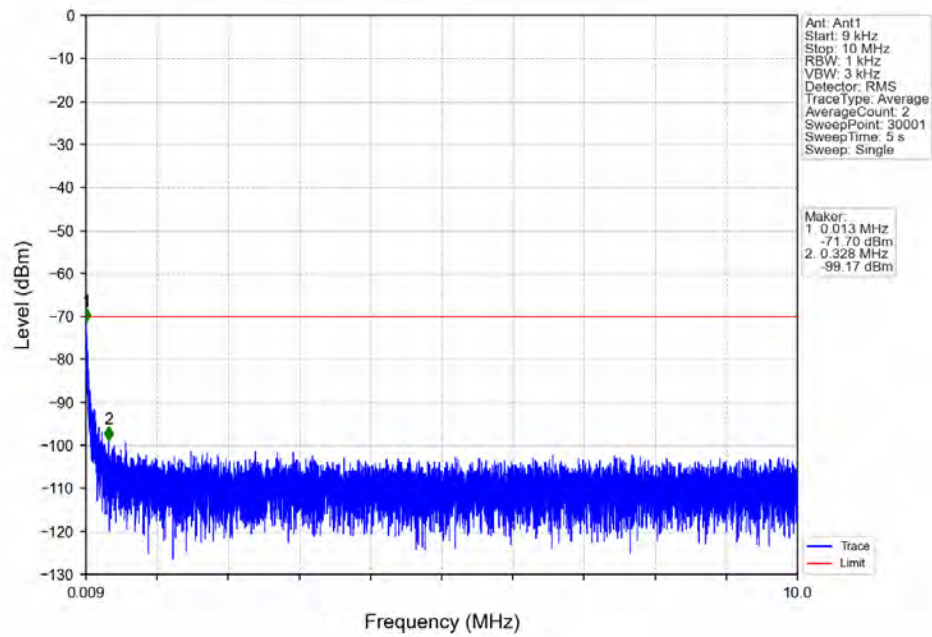
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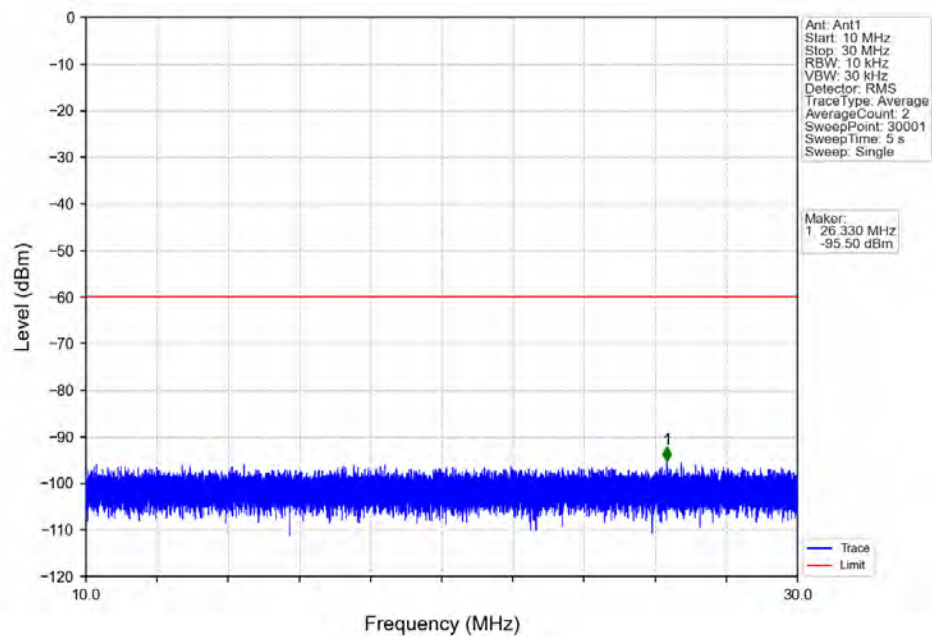
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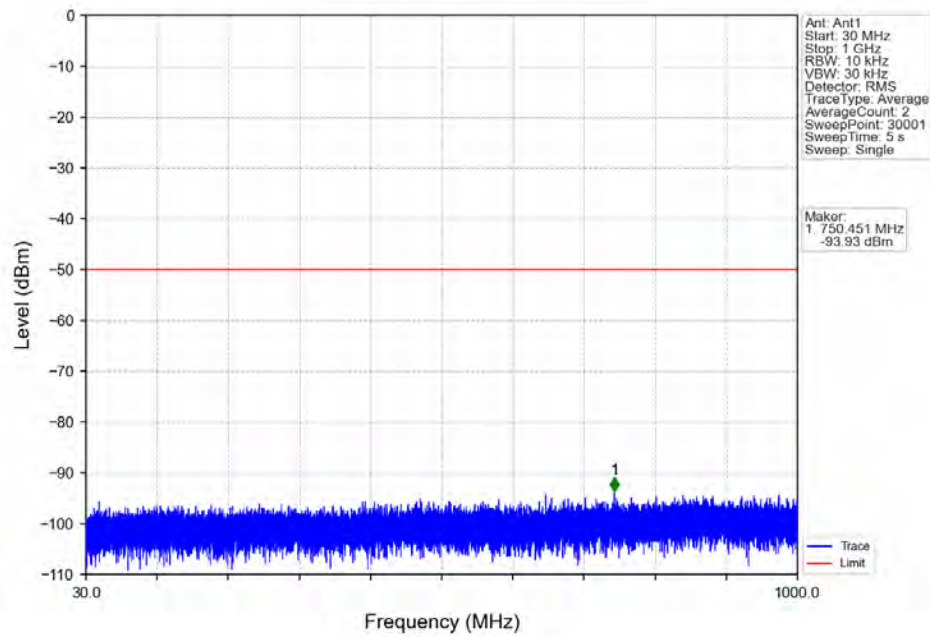
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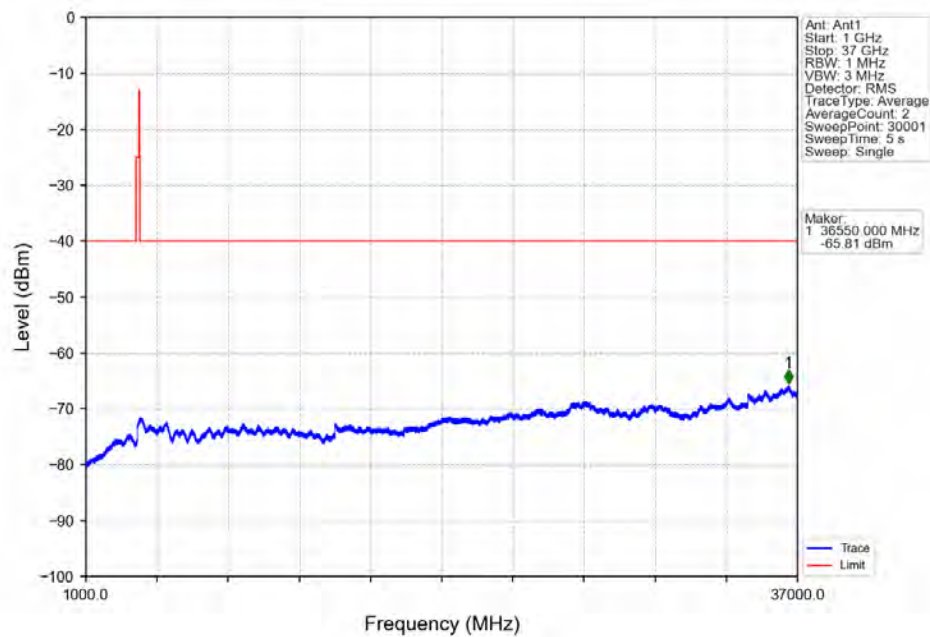
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n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Inner 1RB Right



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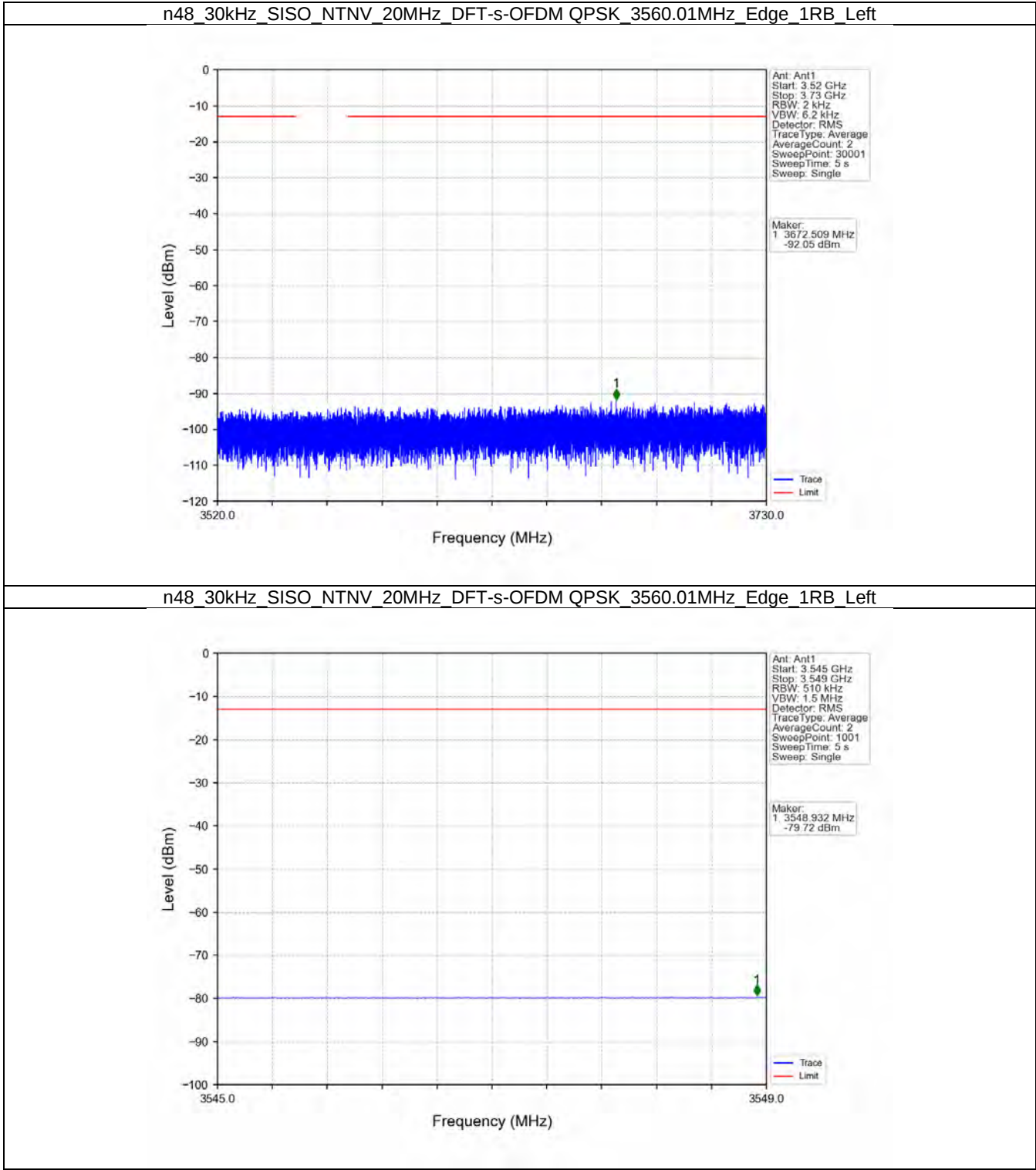


1.2 30k_SISO_20MHz_NTNV

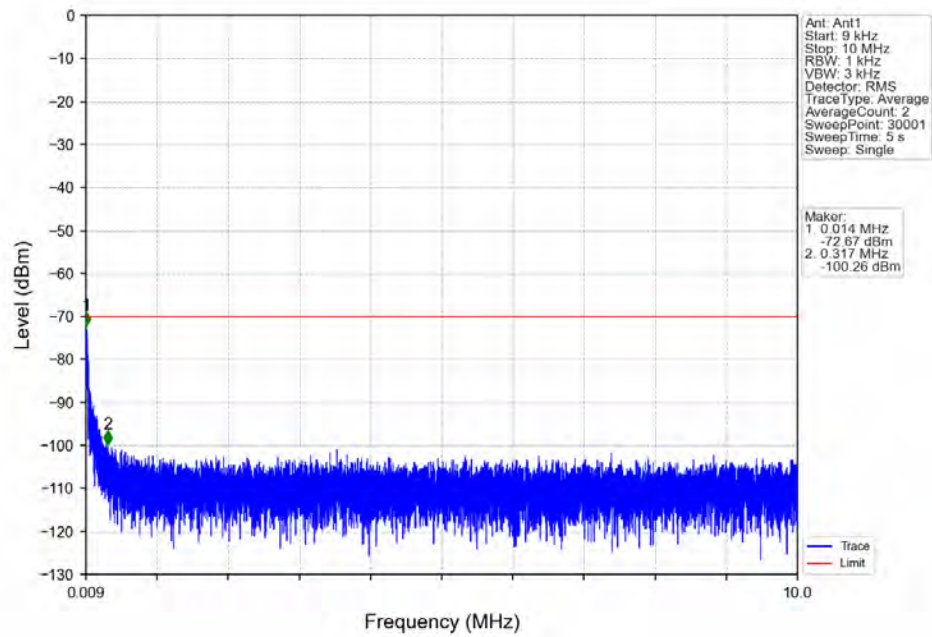
1.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NTN								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant1	Ant2	Sum	Limit		
DFT-s-OFDM QPSK	3560.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3624.99	Edge_1RB_Left	Refer To Test Graph				Pass	
		3690	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	3560.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3624.99	Edge_1RB_Left	Refer To Test Graph				Pass	
		3690	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass

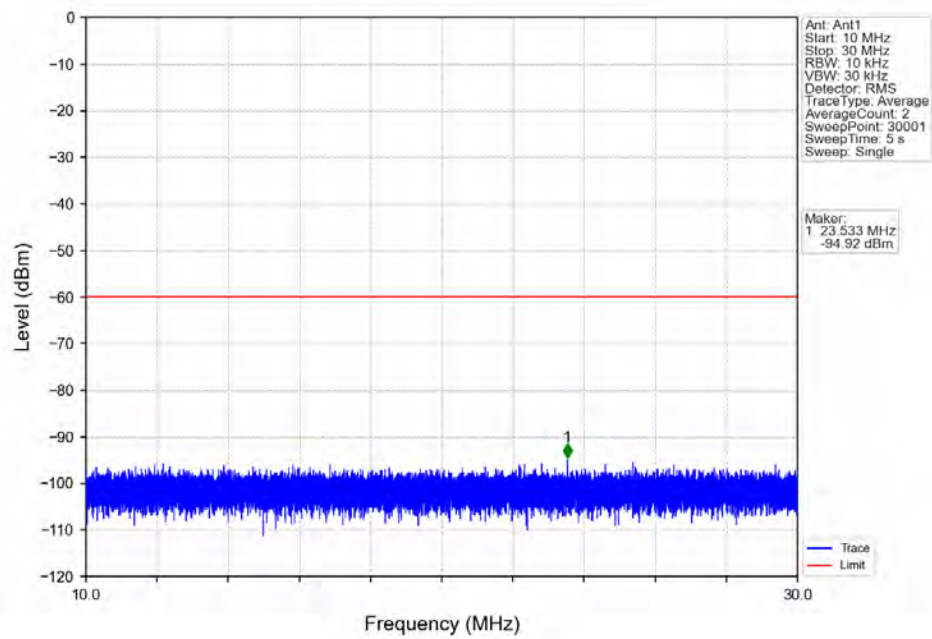
1.2.2 Test Graph



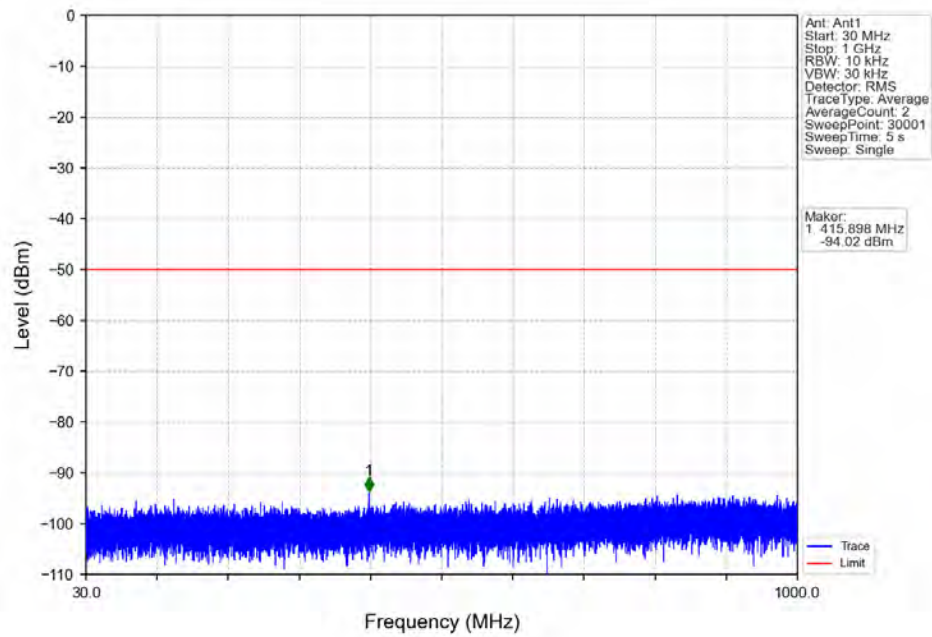
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Edge 1RB Left



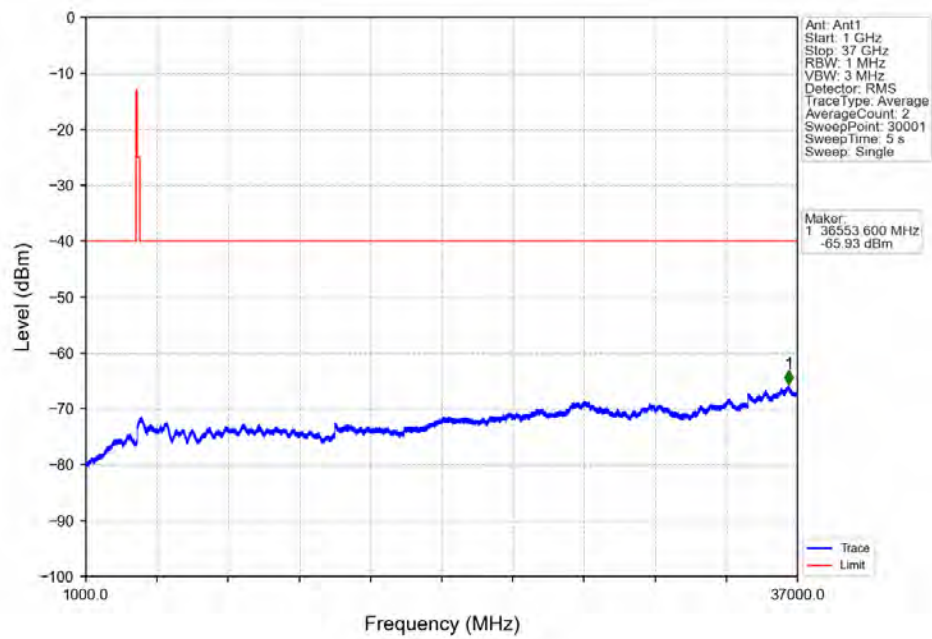
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Edge 1RB Left



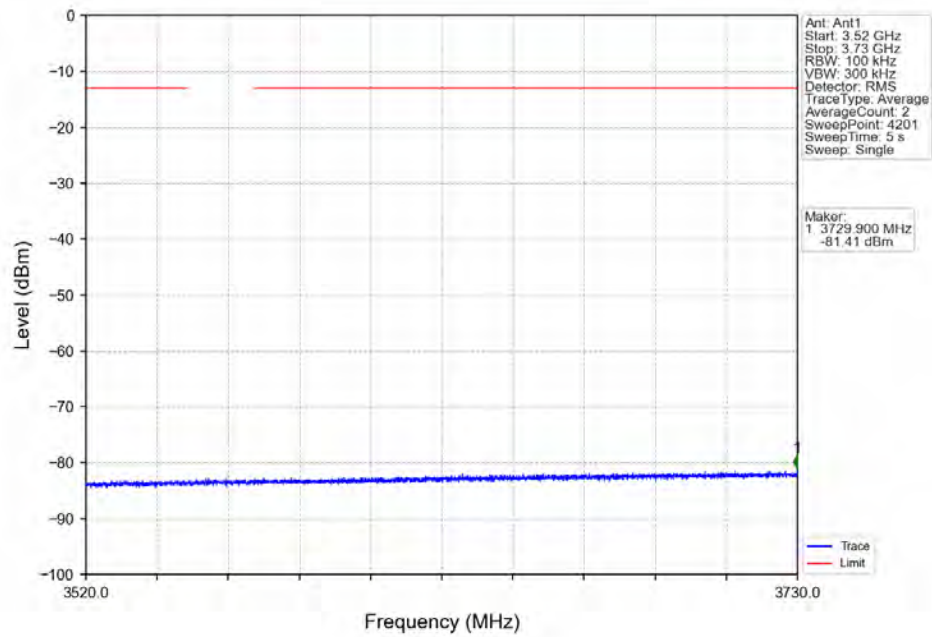
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Edge 1RB Left



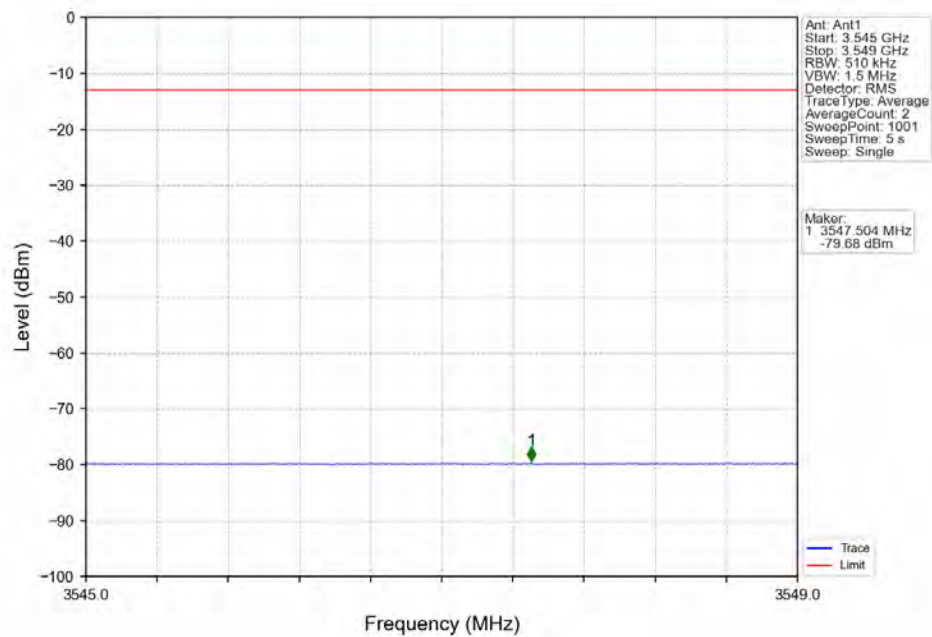
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Edge 1RB Left



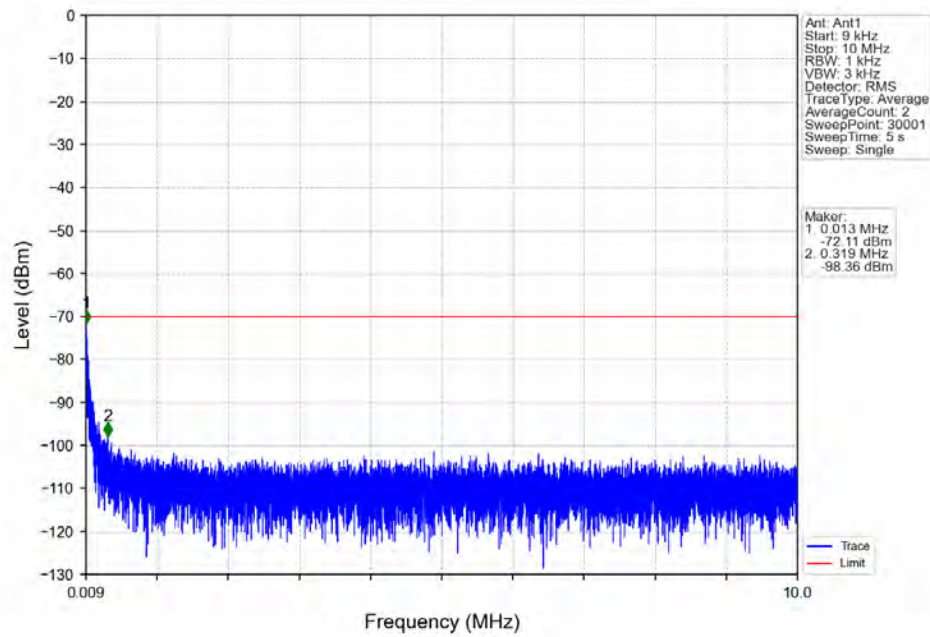
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Outer Full



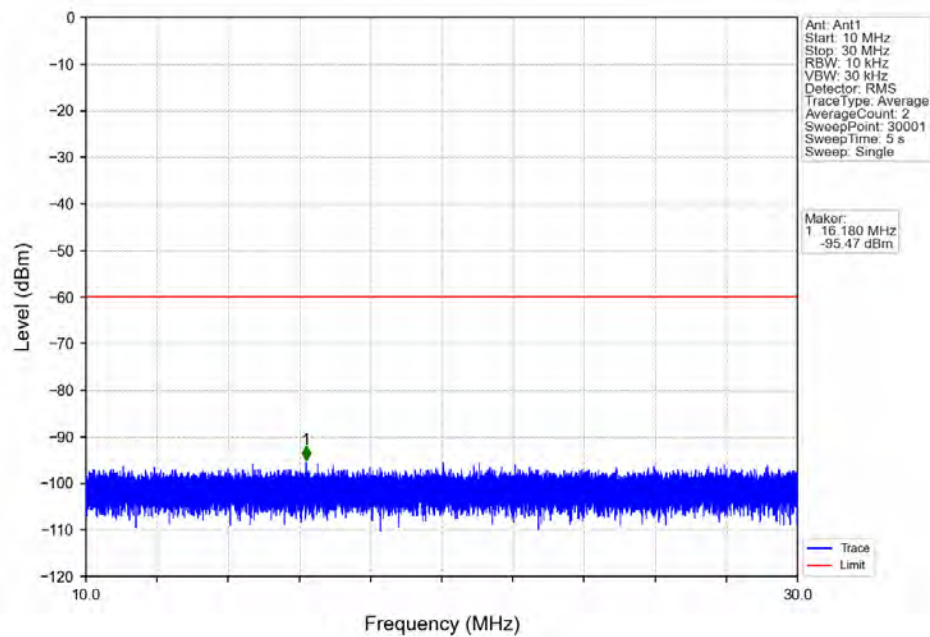
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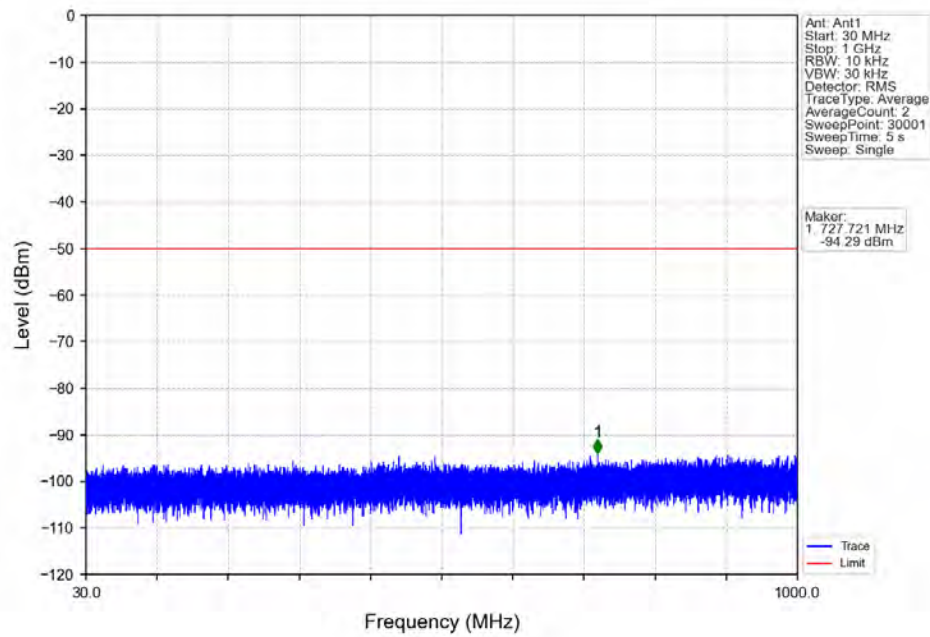
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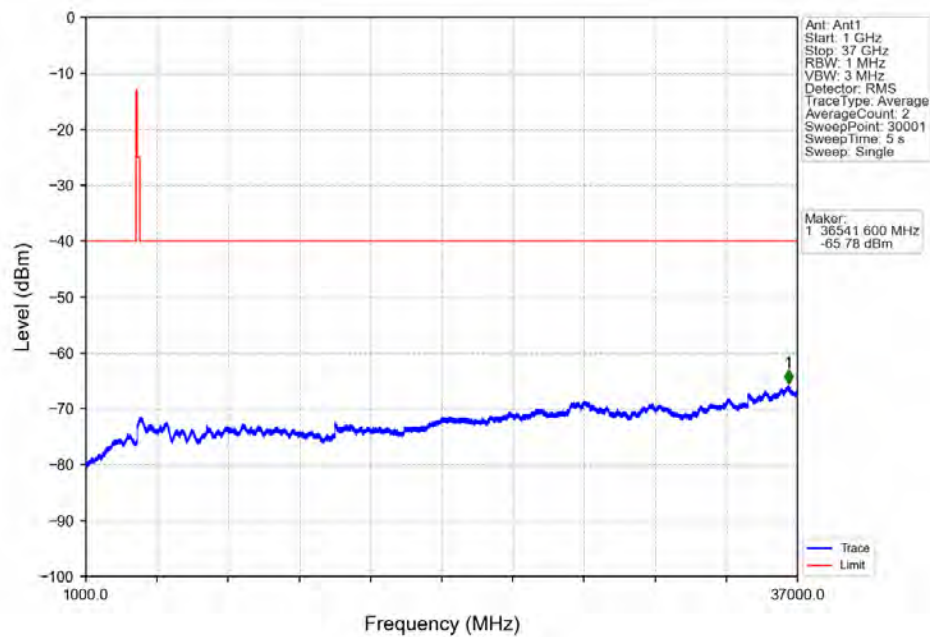
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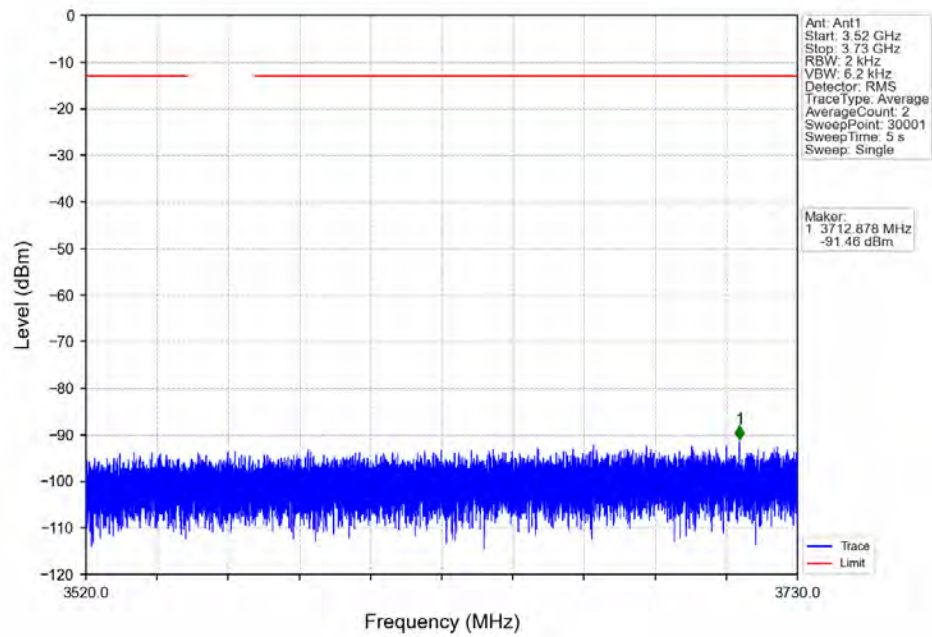
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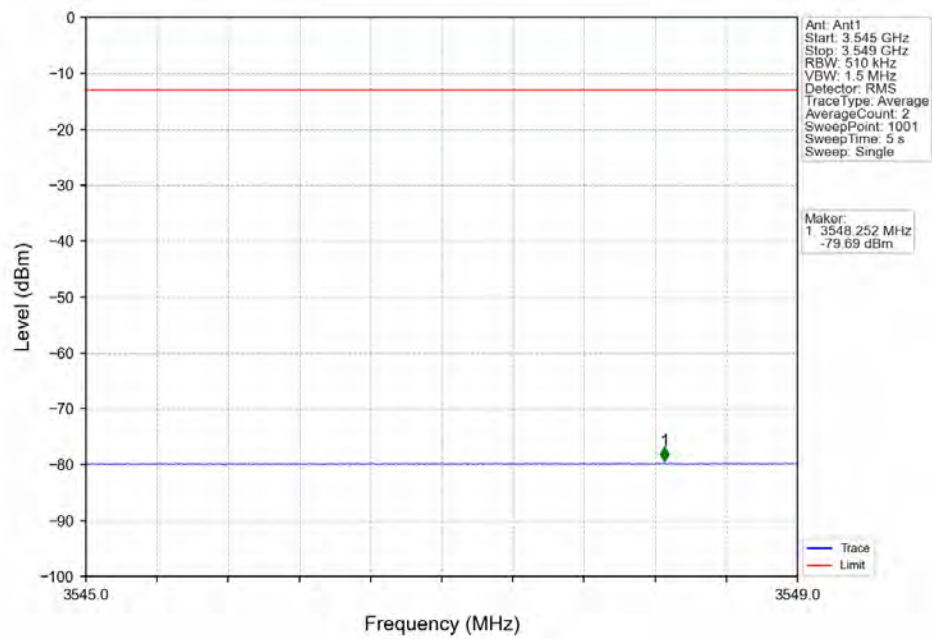
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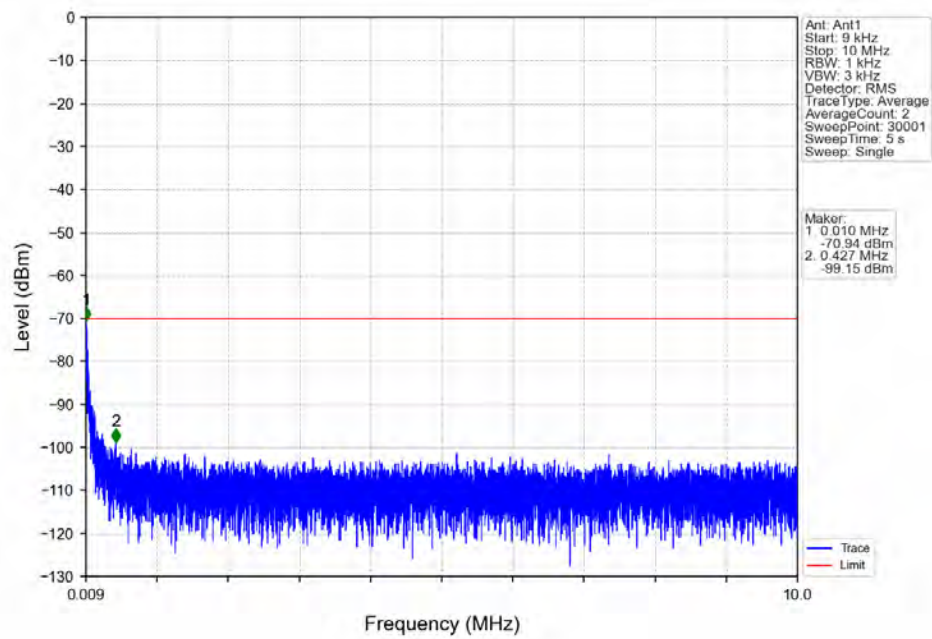
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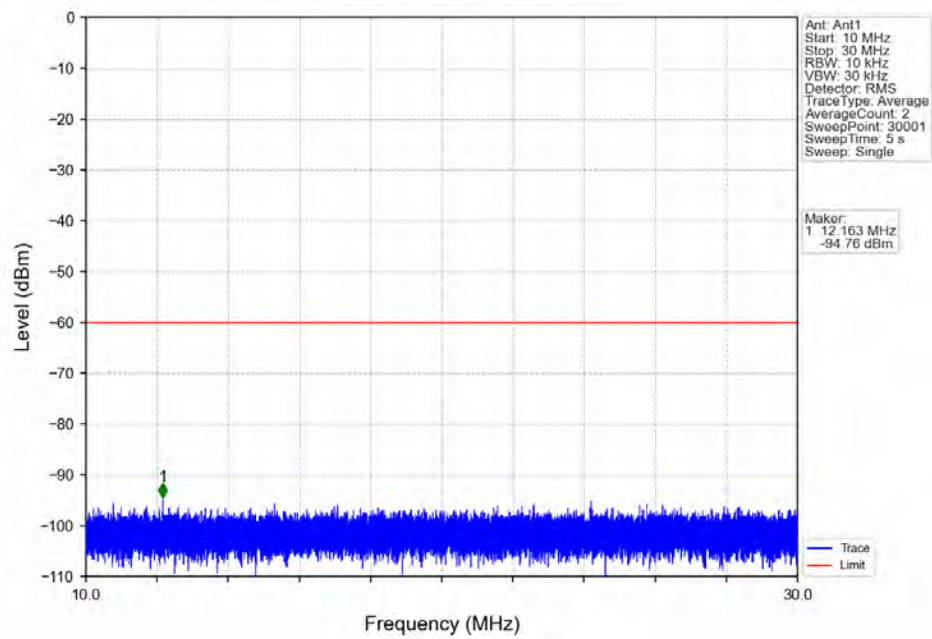
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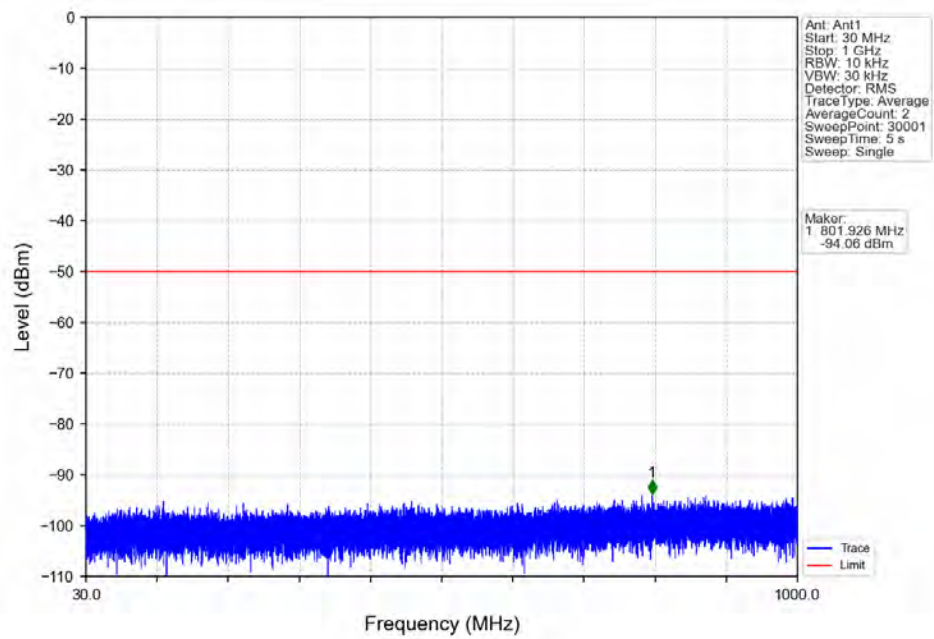
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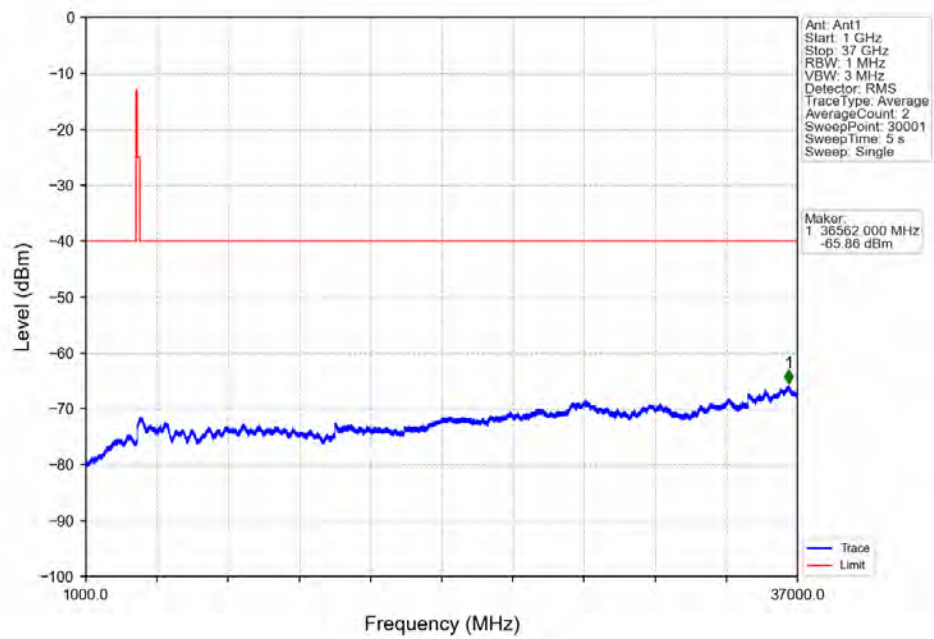
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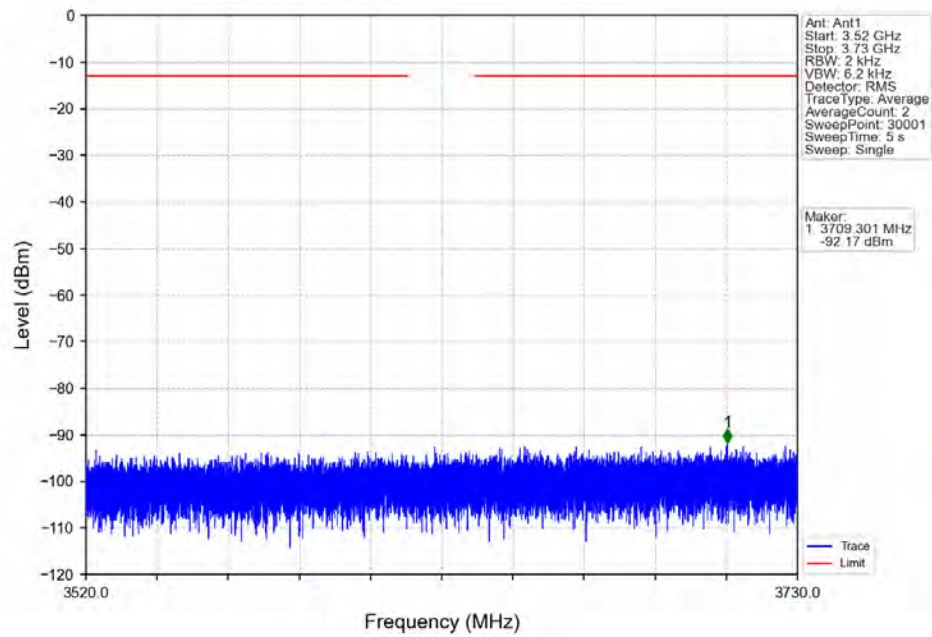
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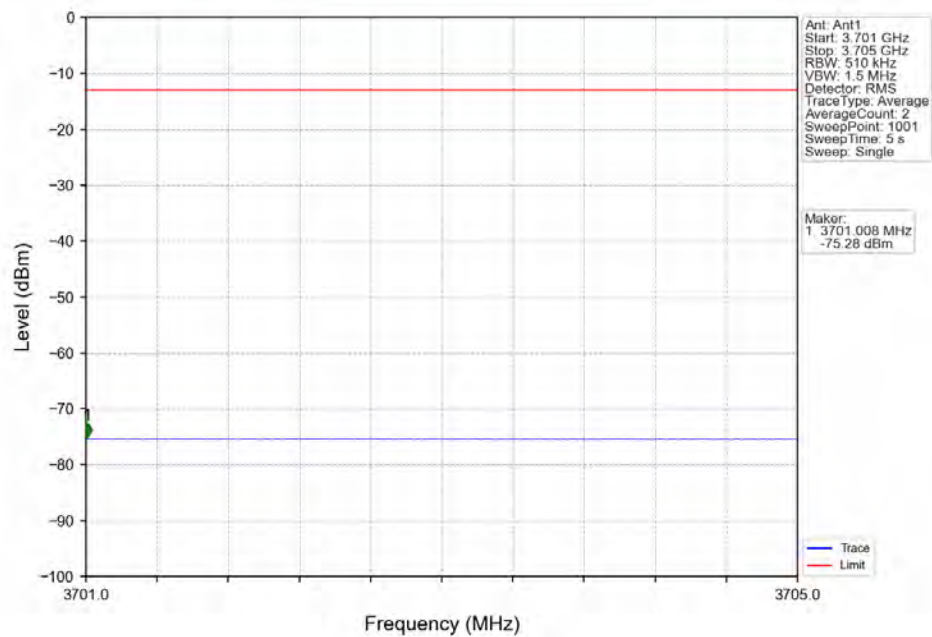
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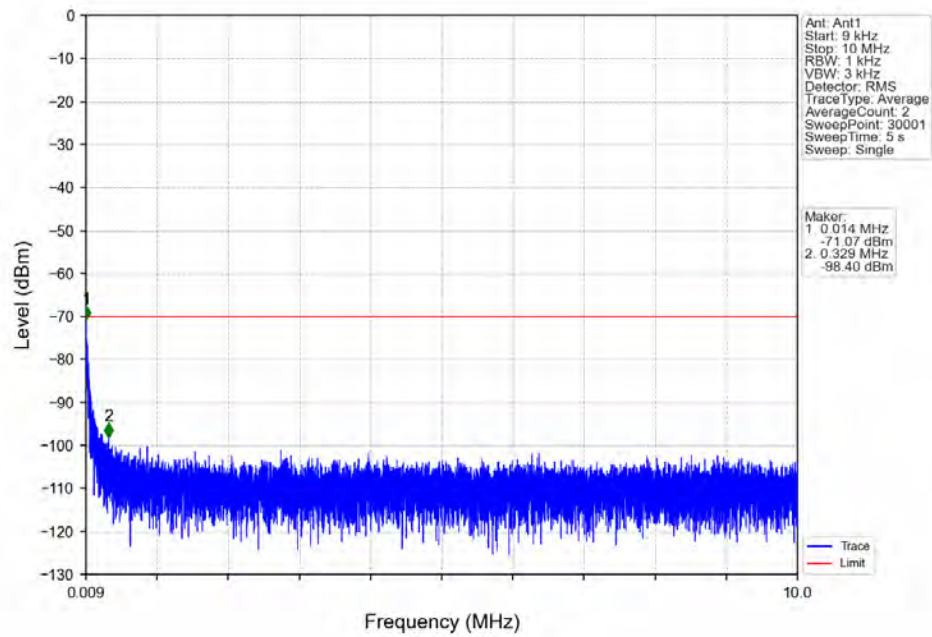
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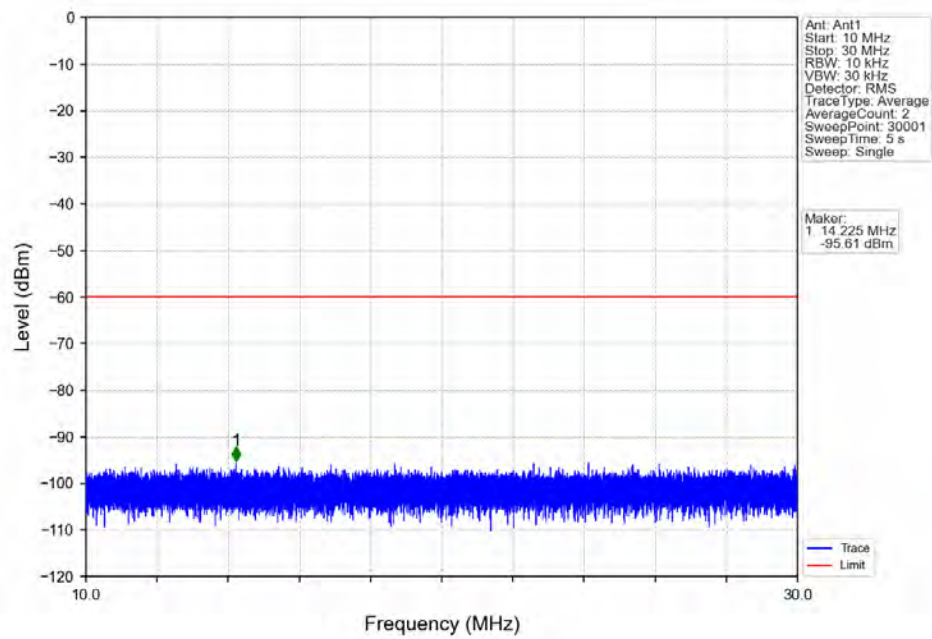
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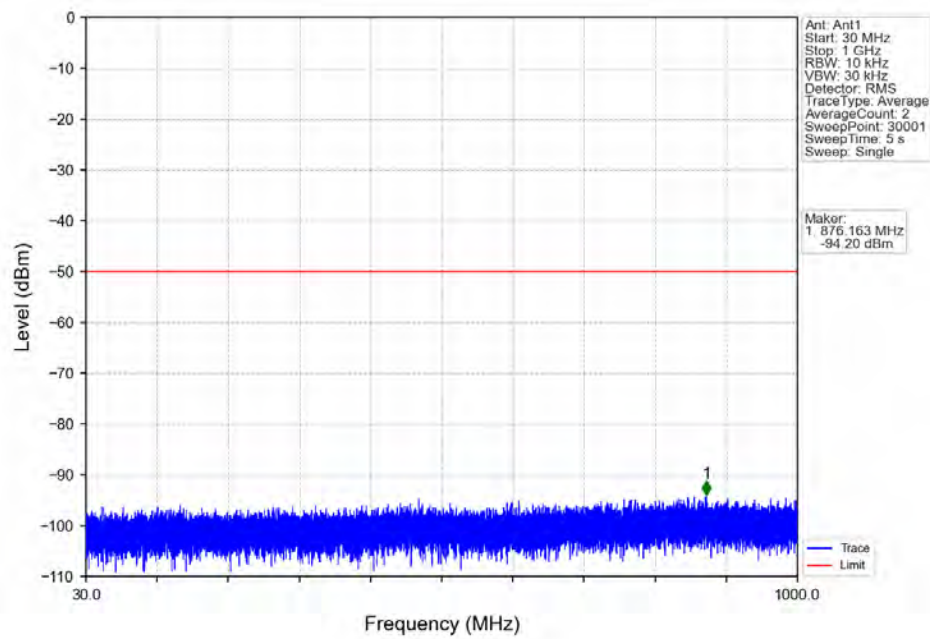
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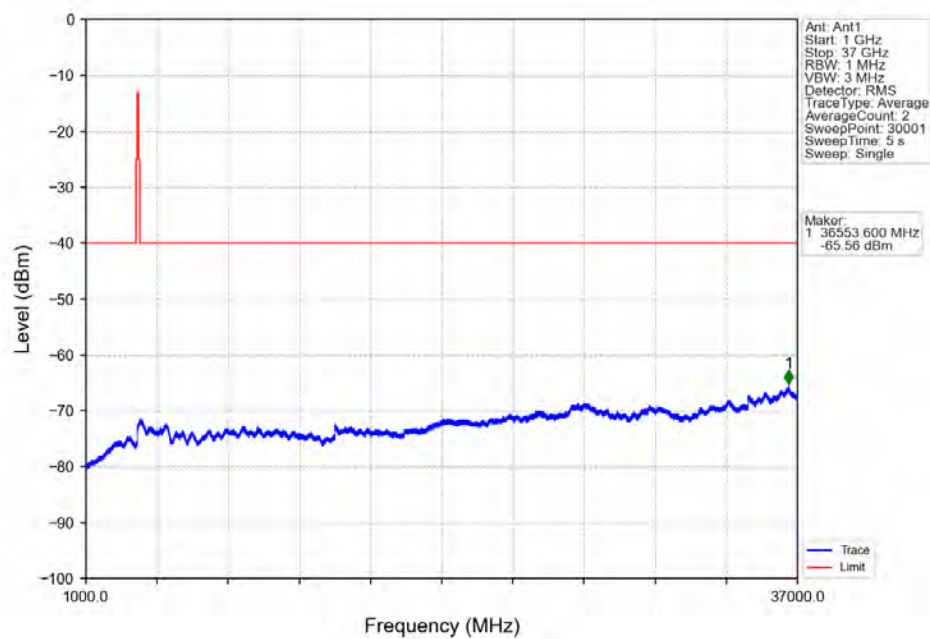
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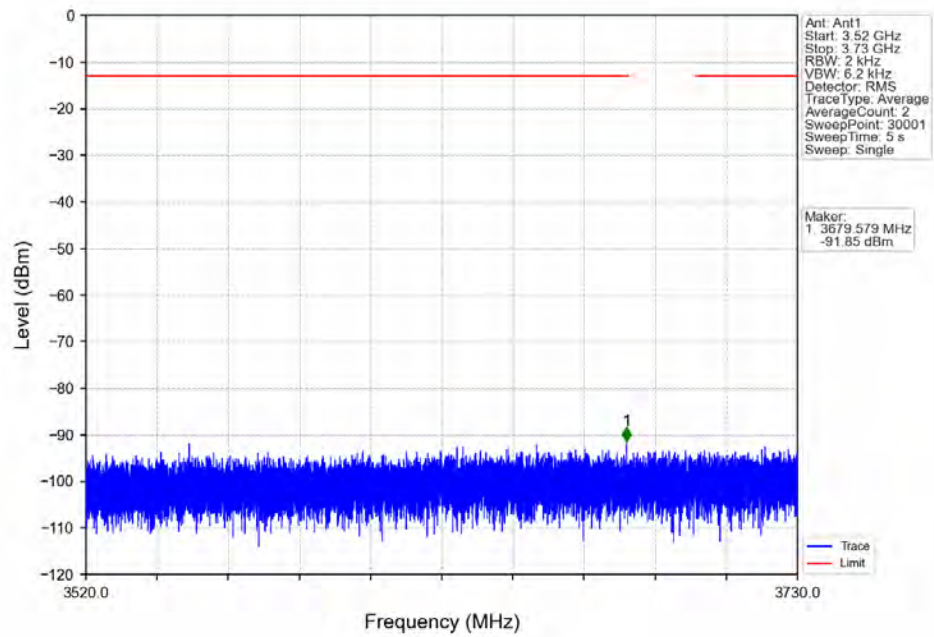
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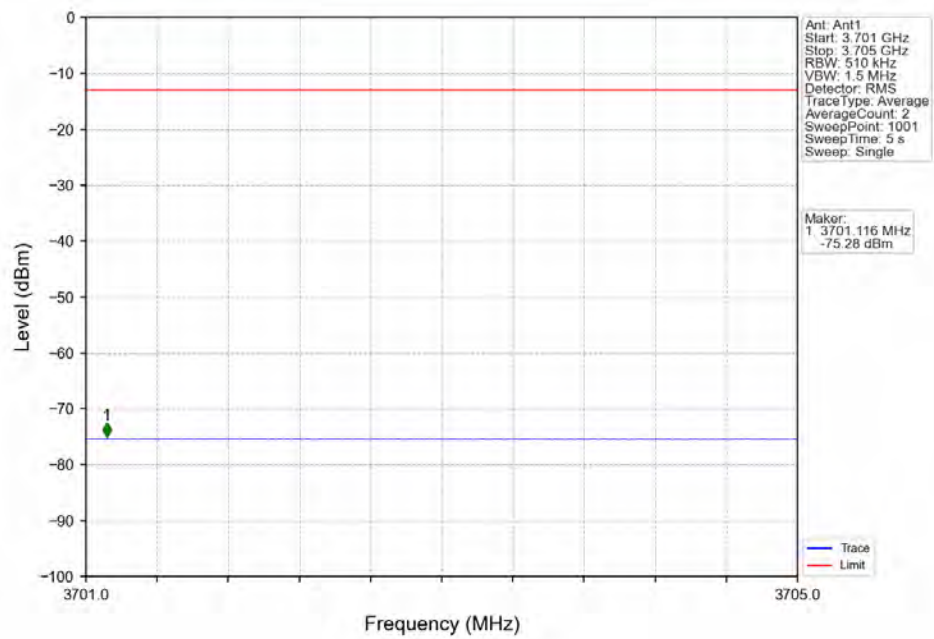
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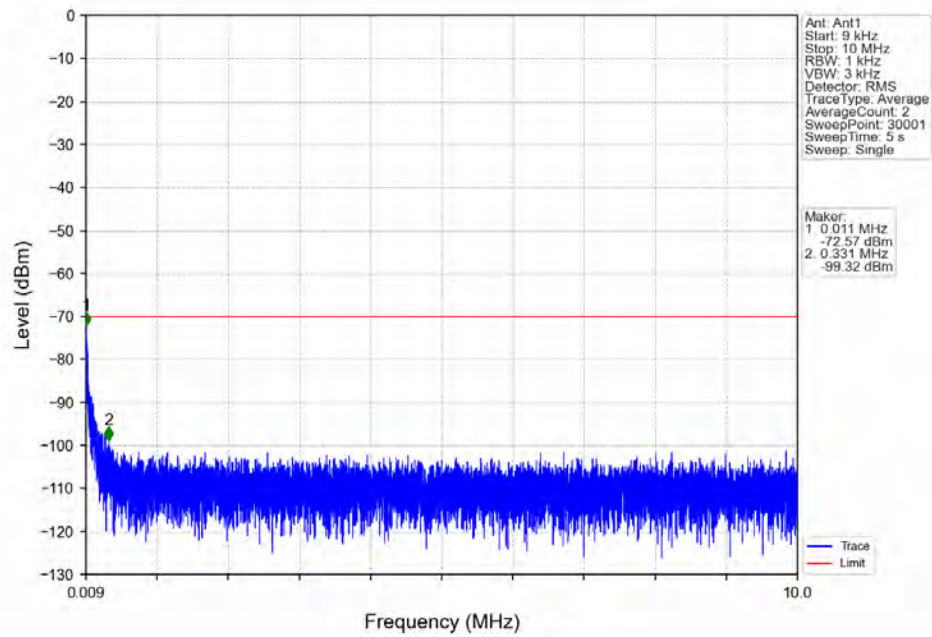
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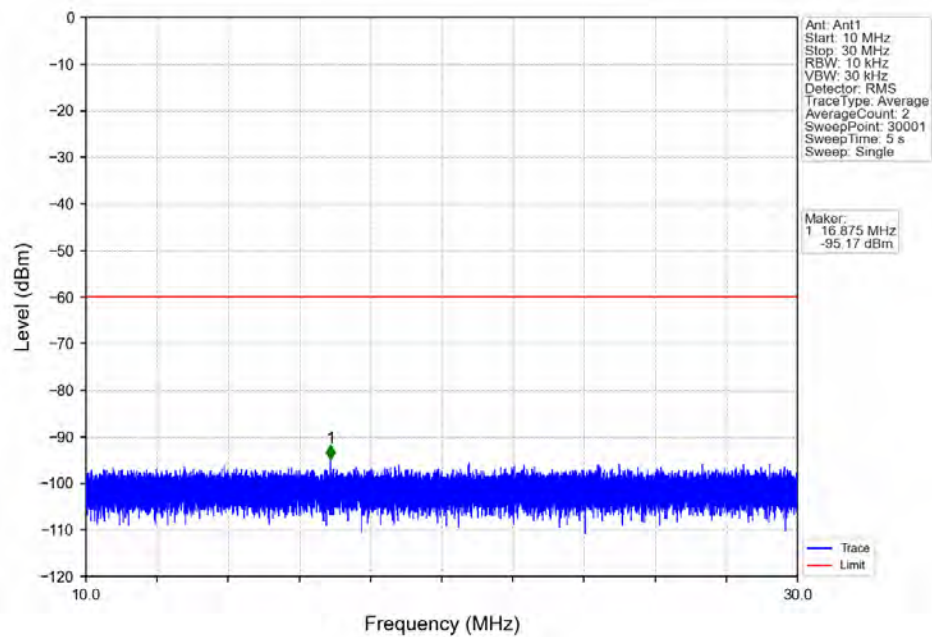
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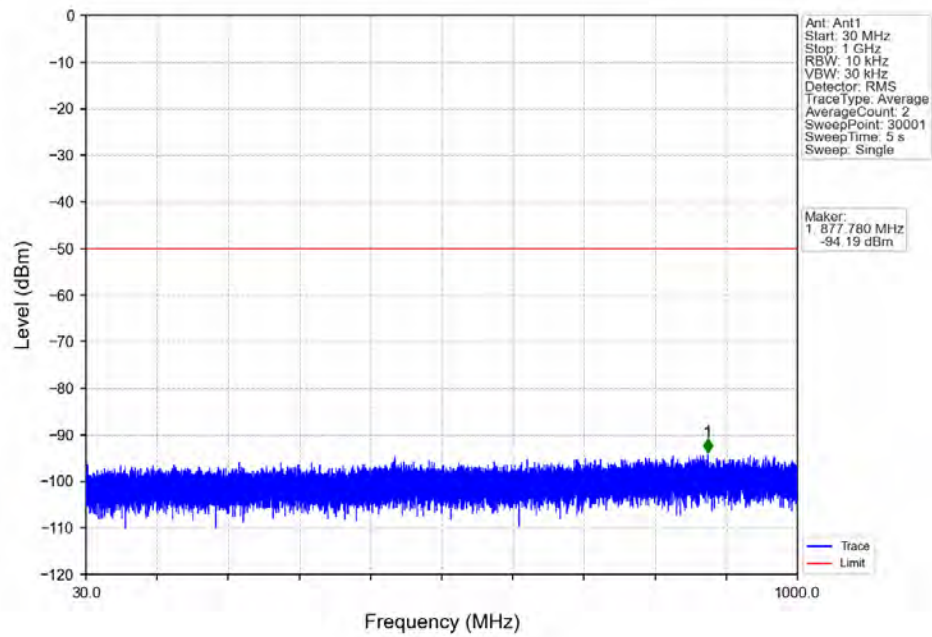
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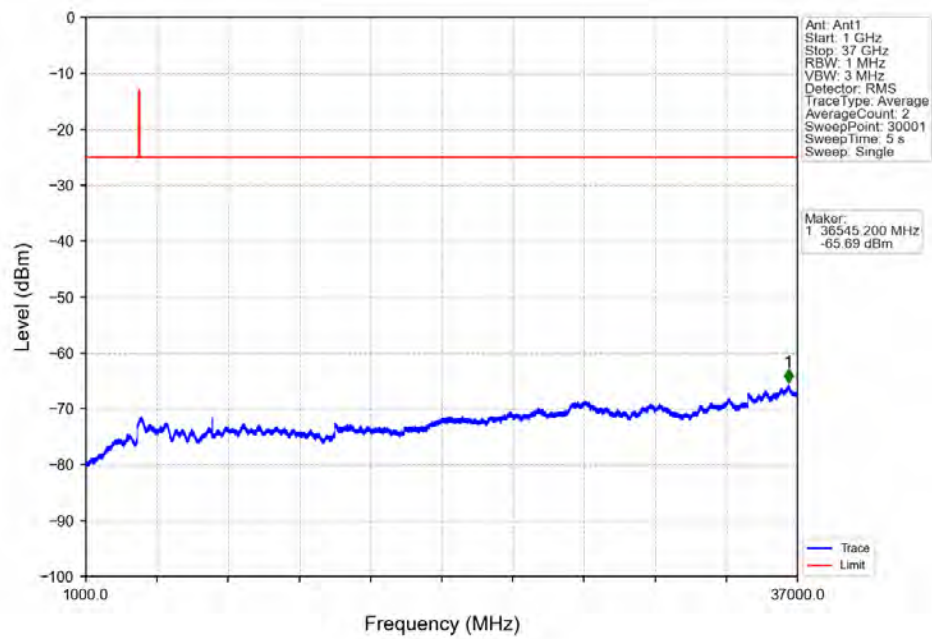
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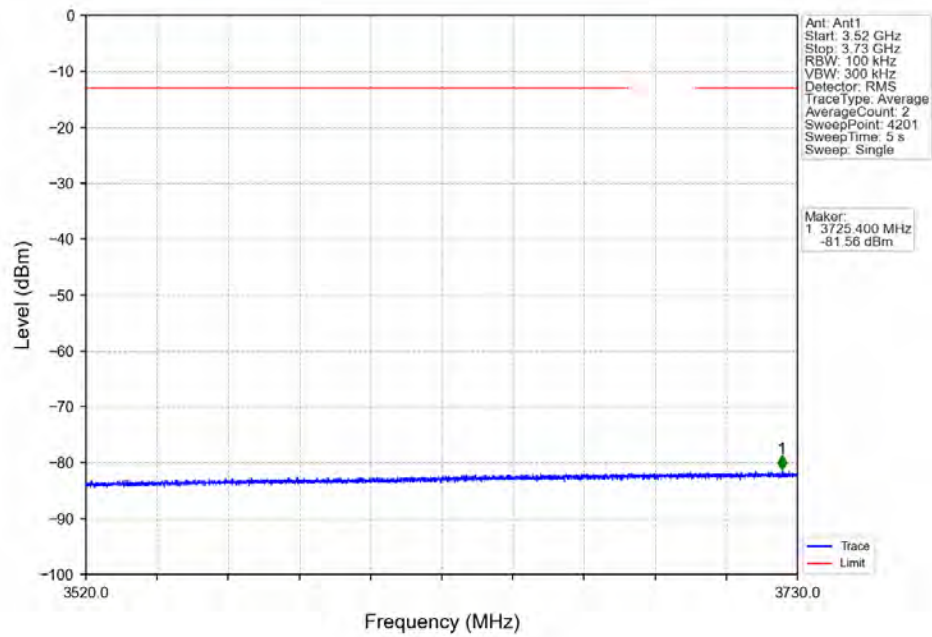
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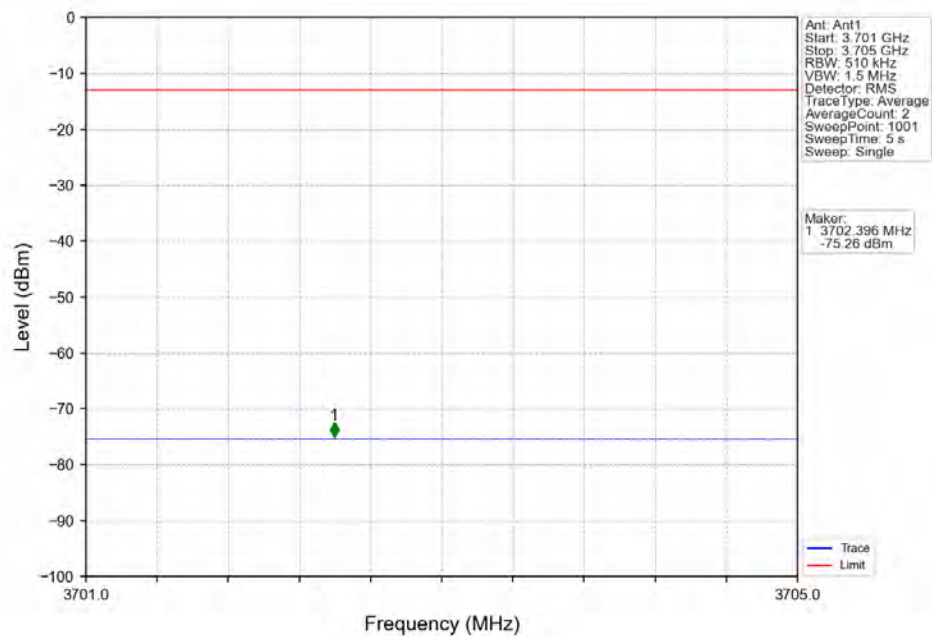
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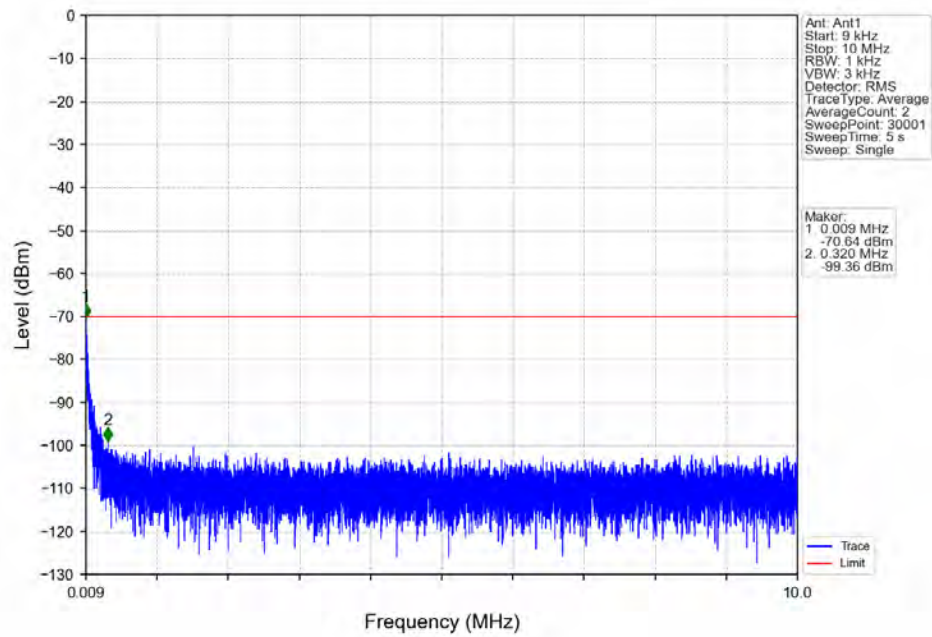
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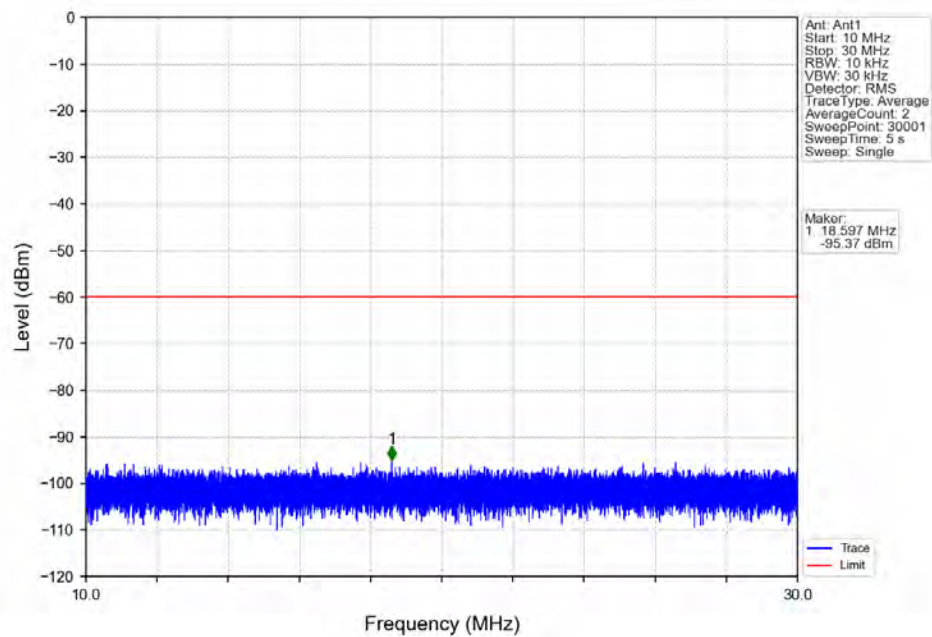
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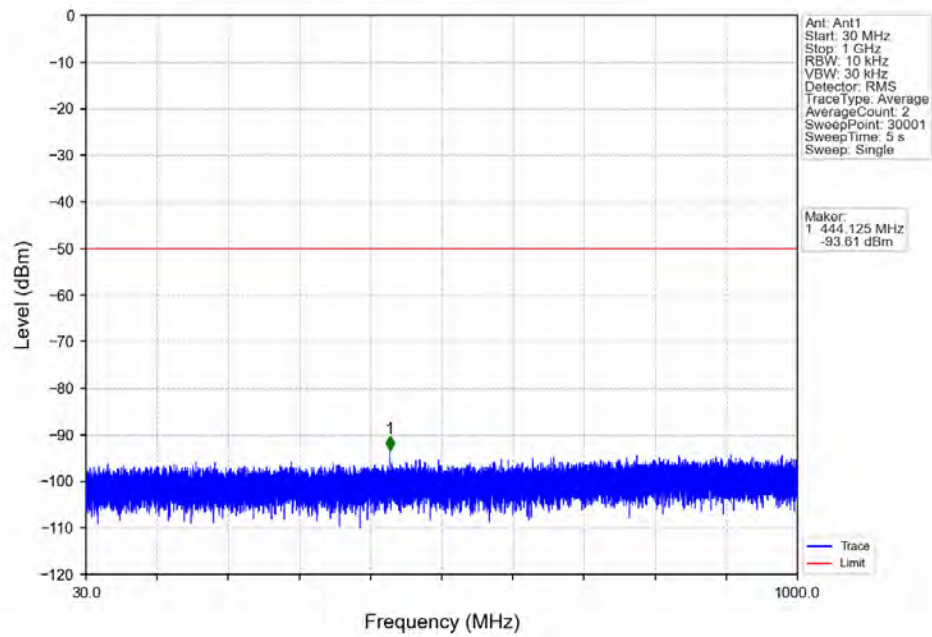
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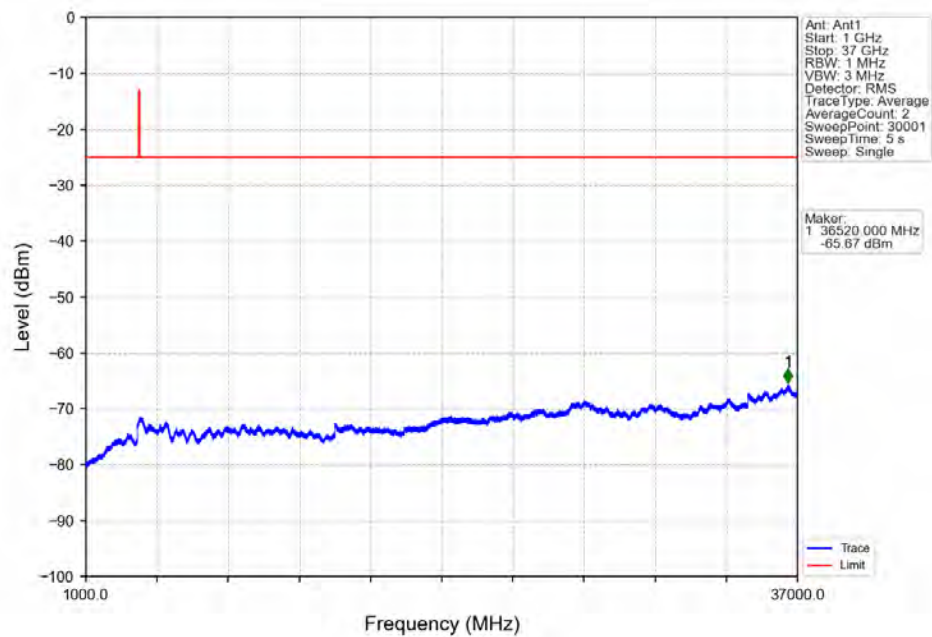
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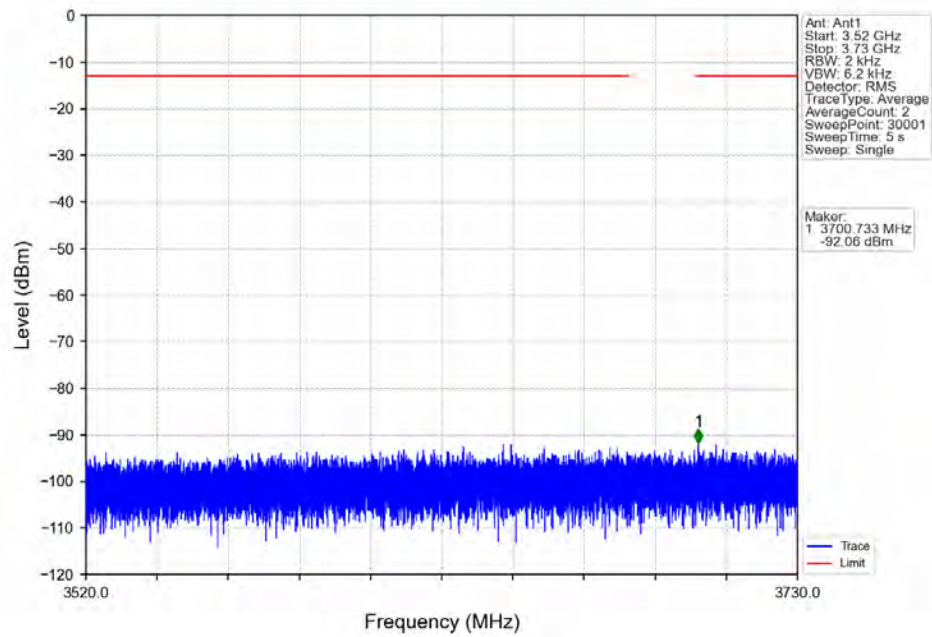
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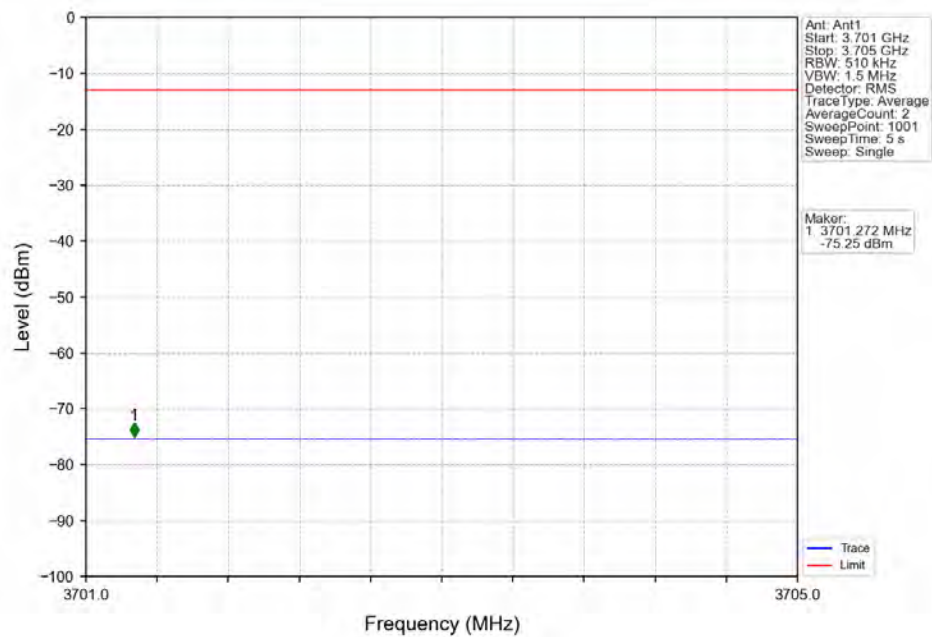
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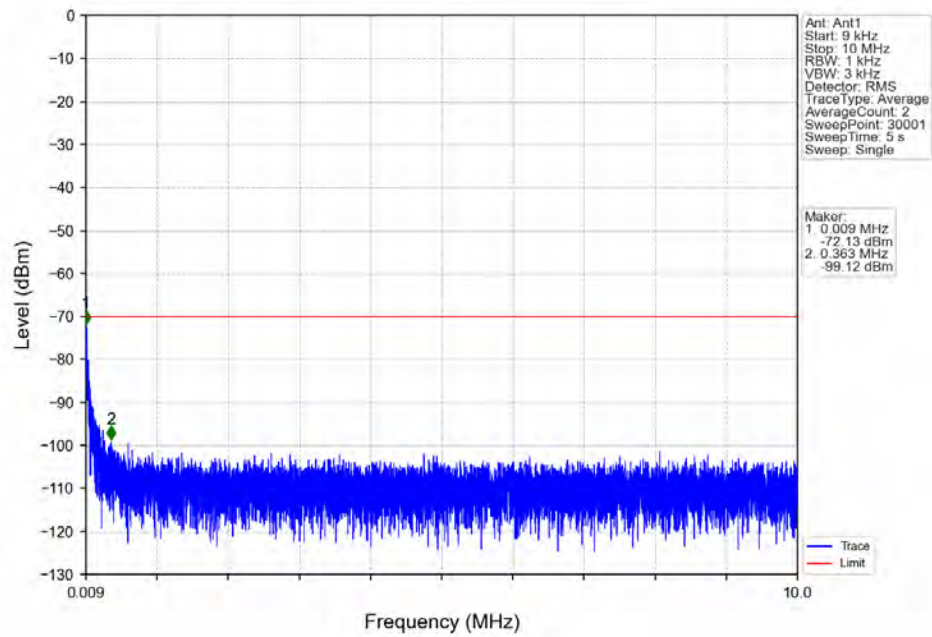
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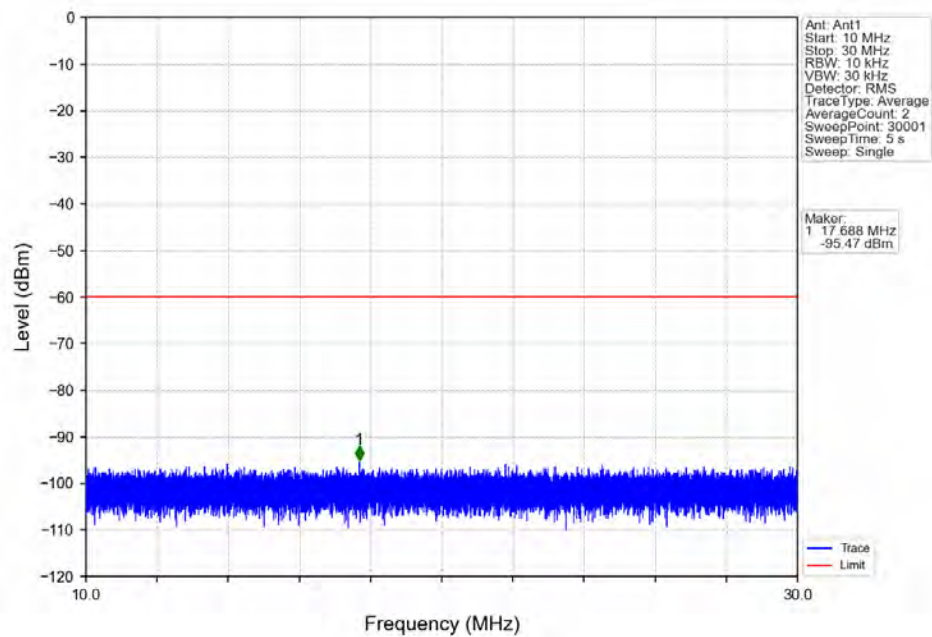
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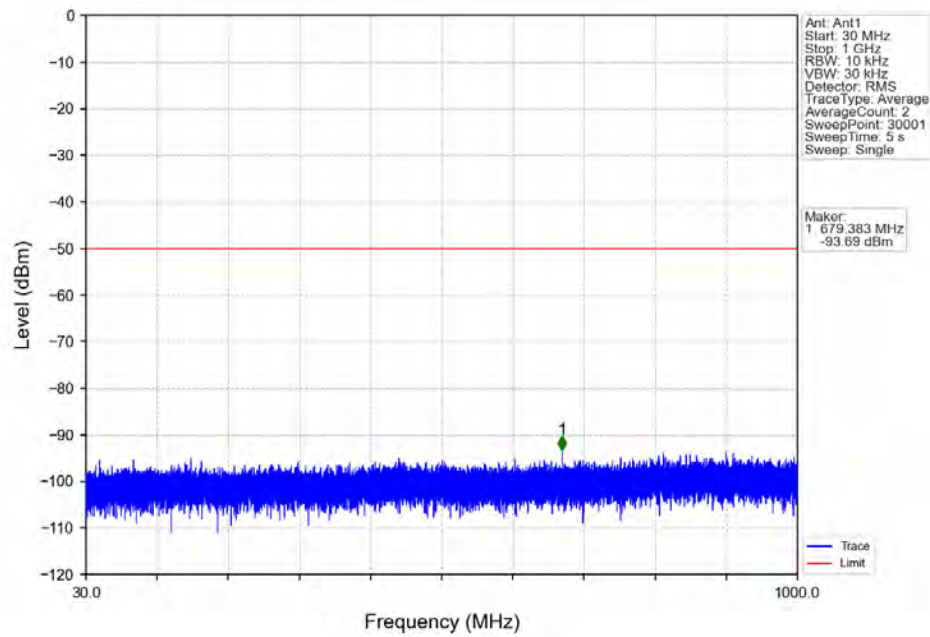
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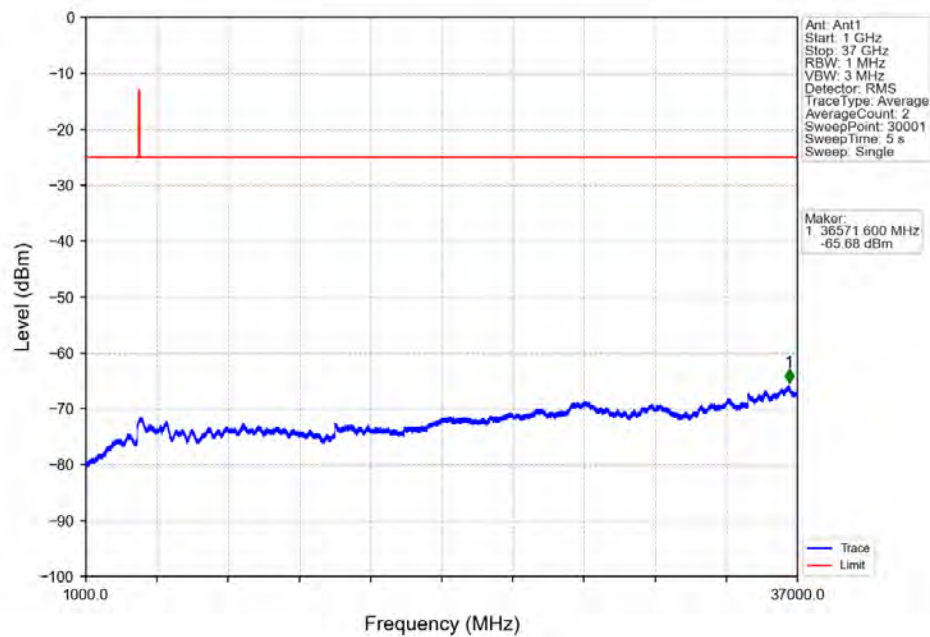
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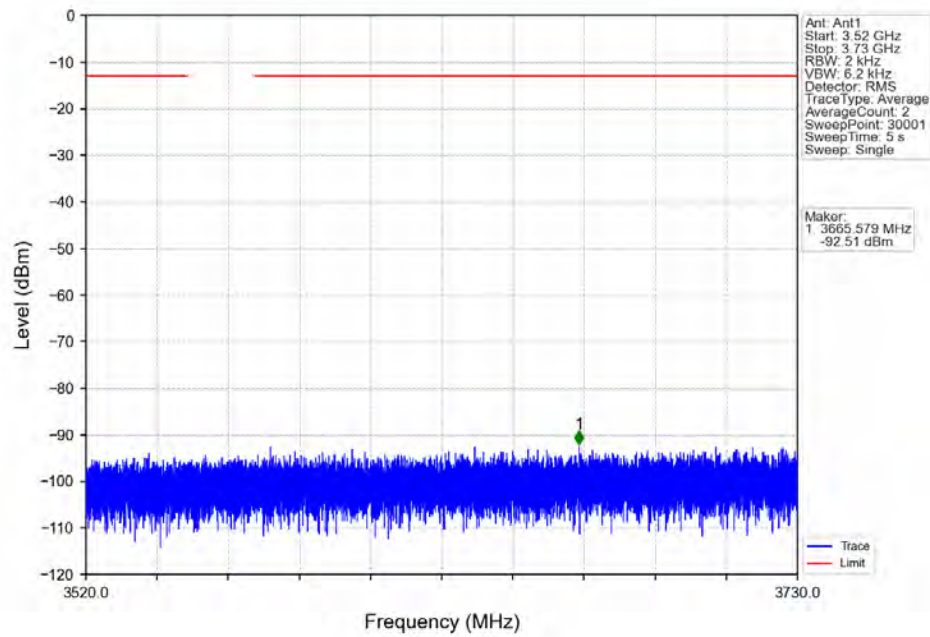
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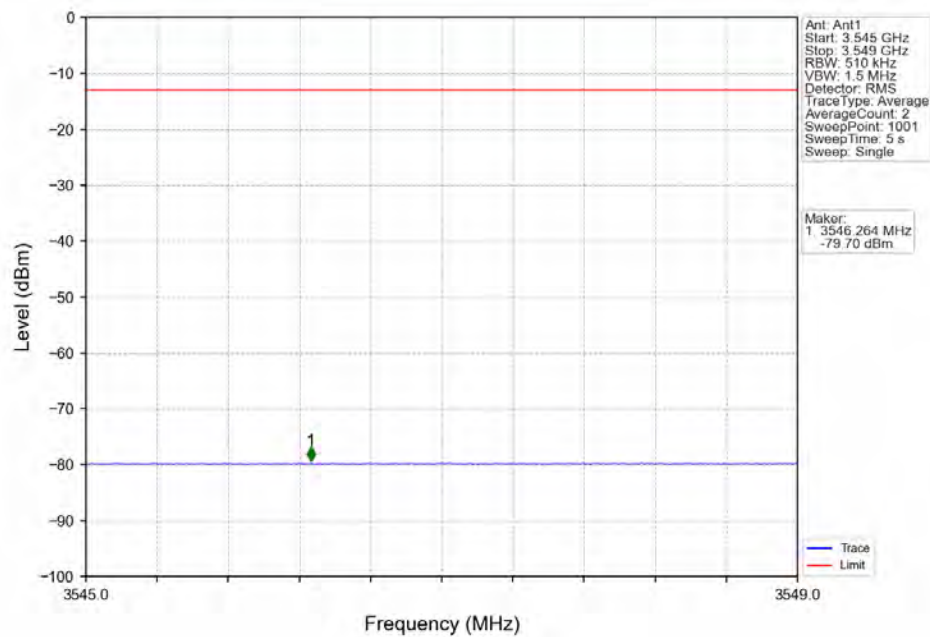
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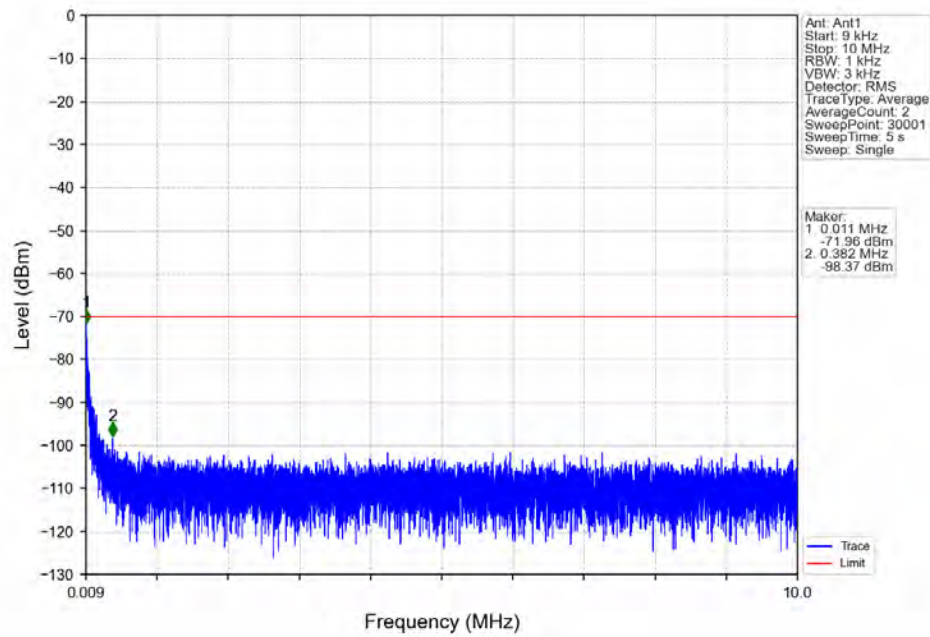
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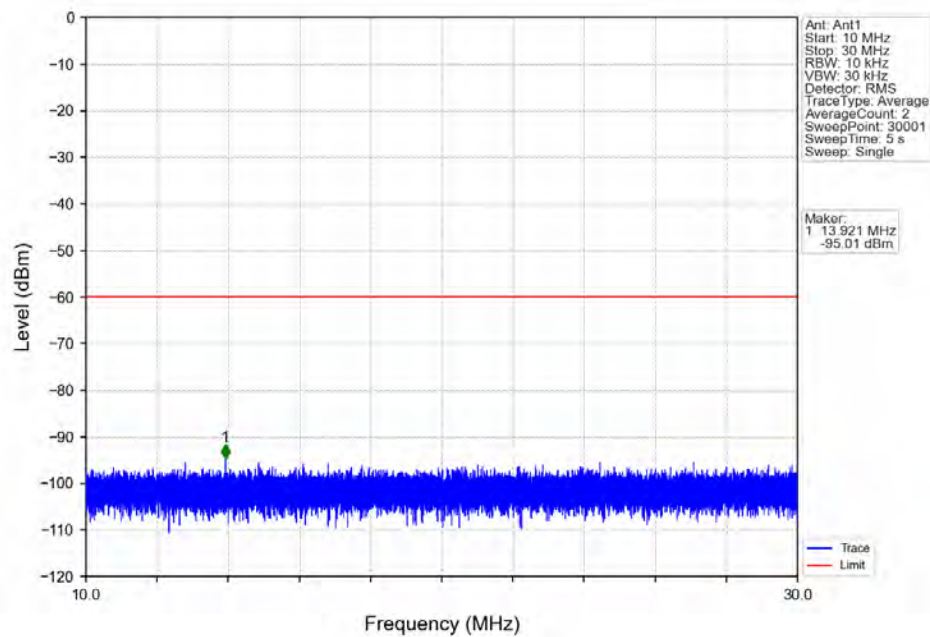
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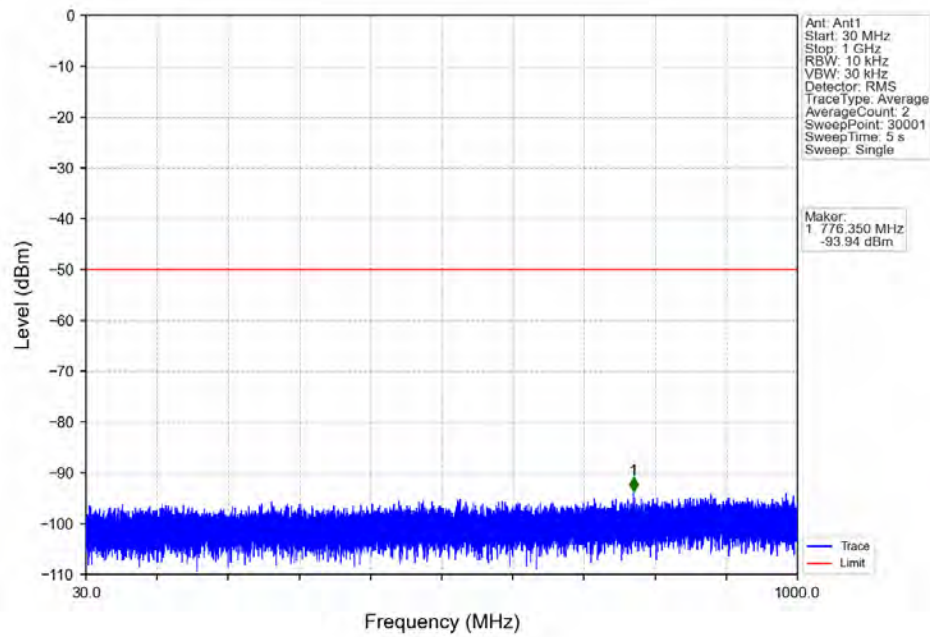
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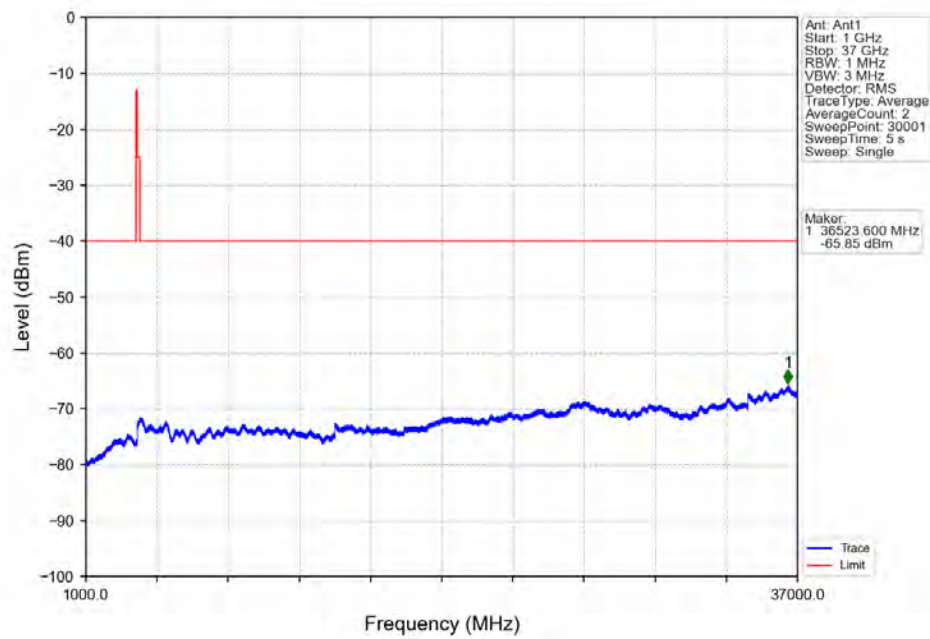
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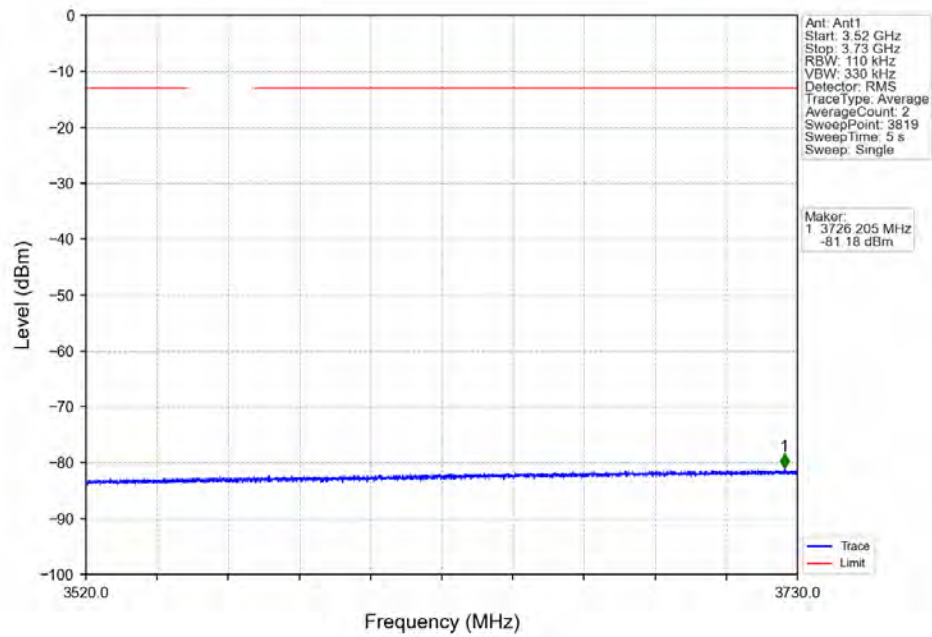
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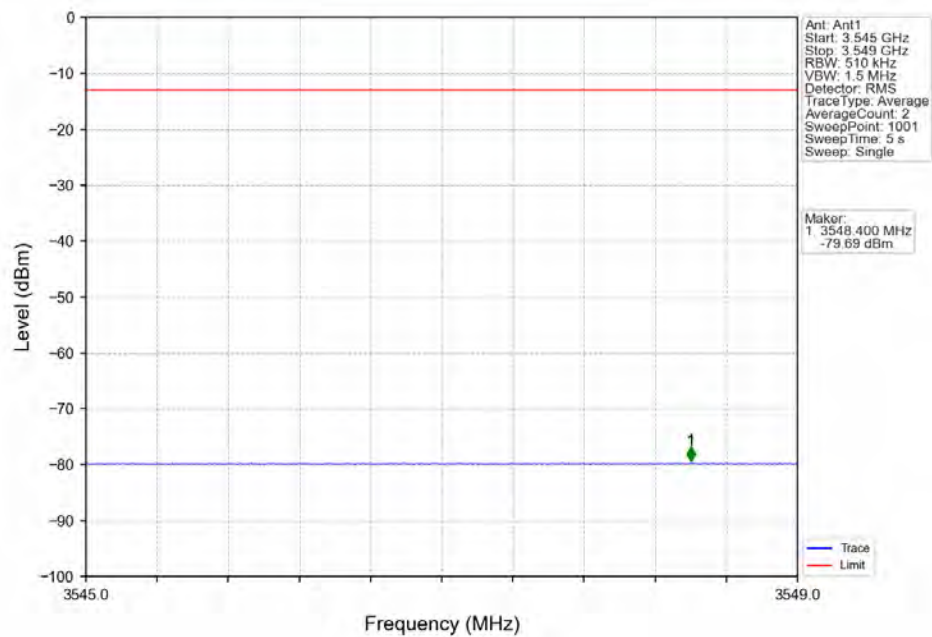
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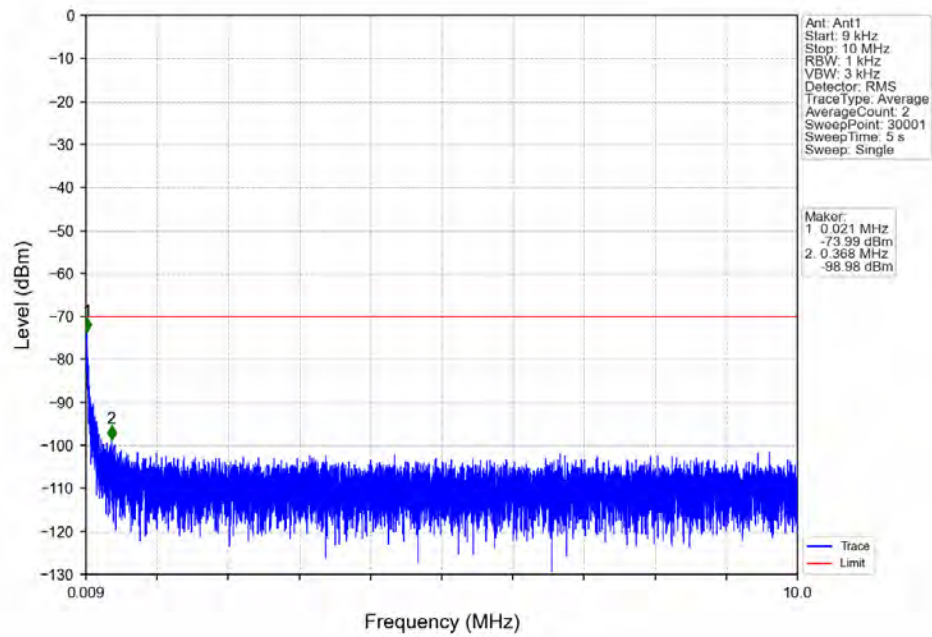
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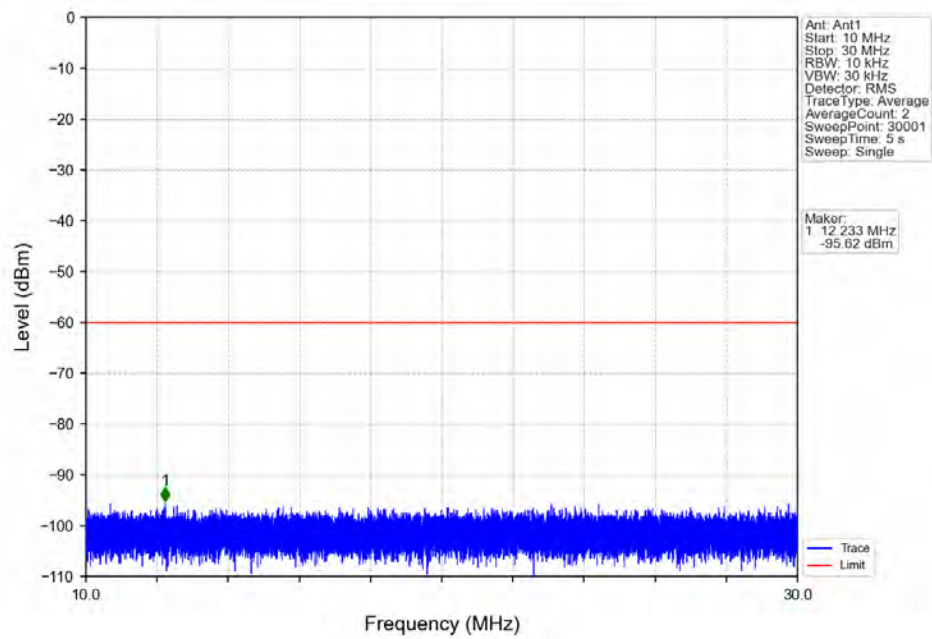
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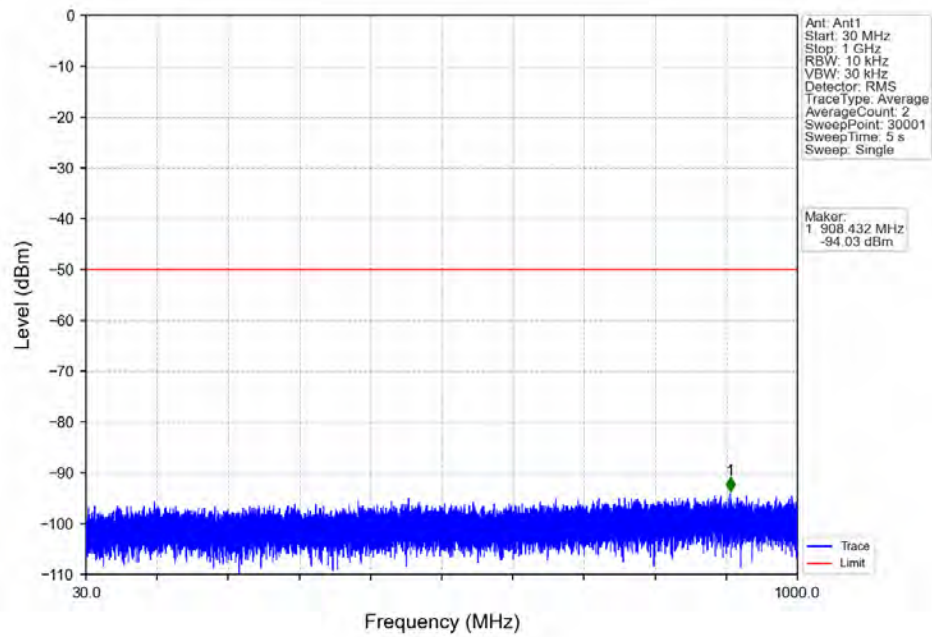
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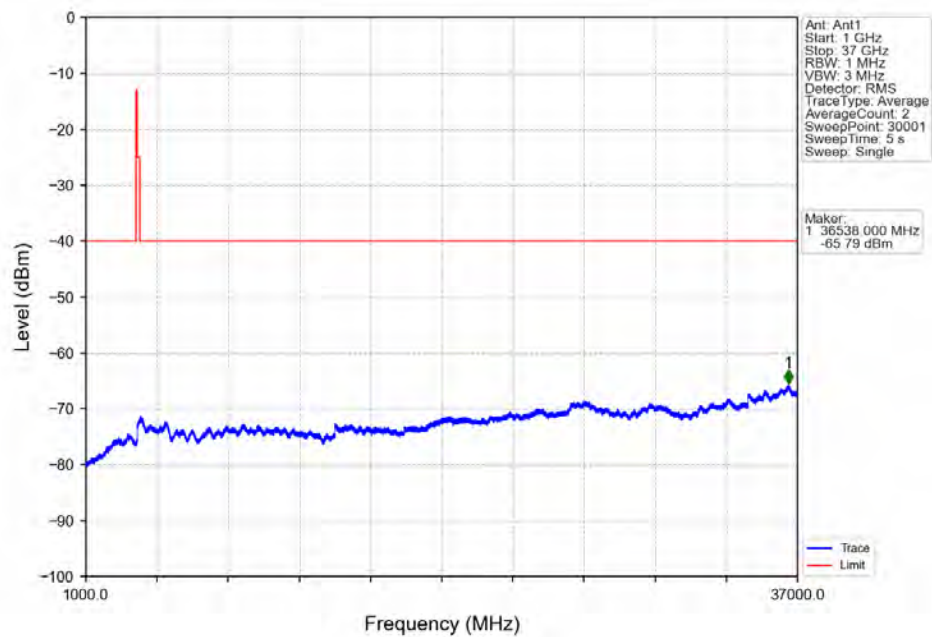
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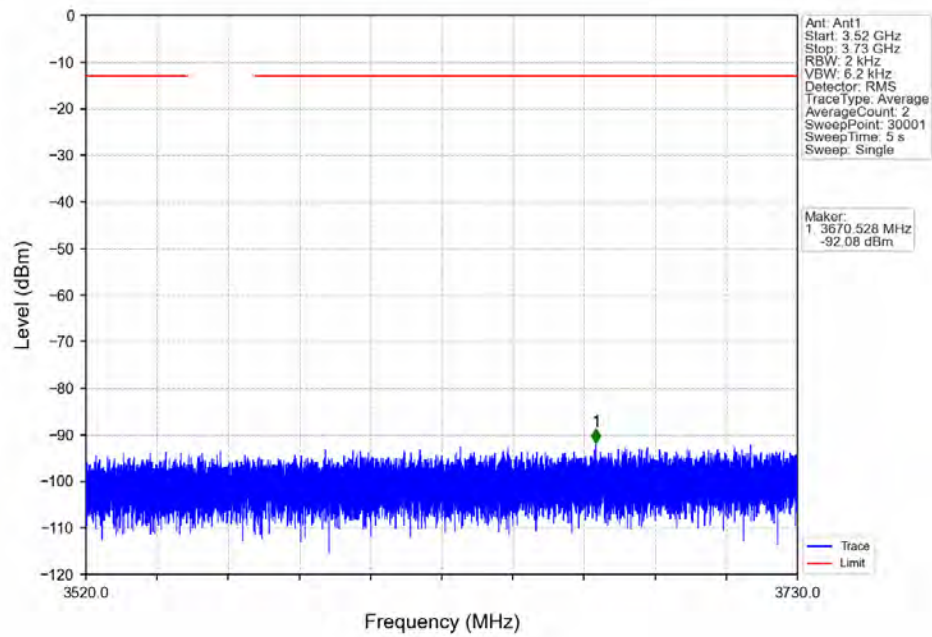
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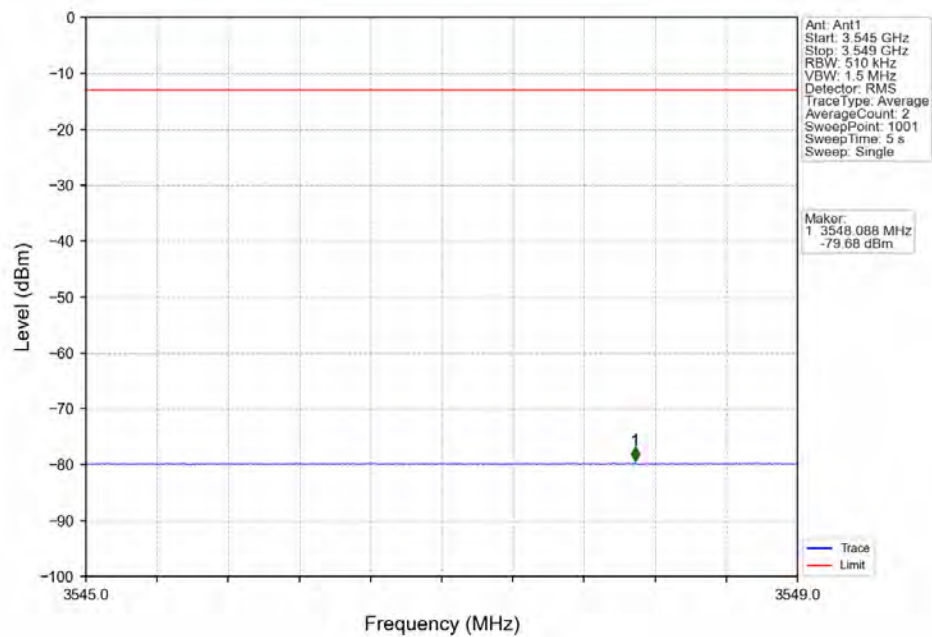
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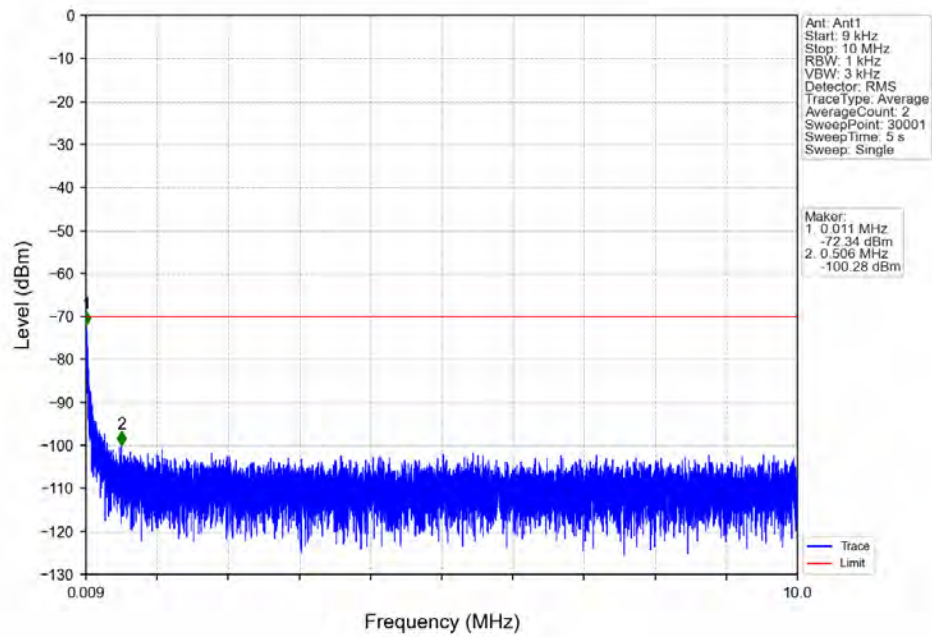
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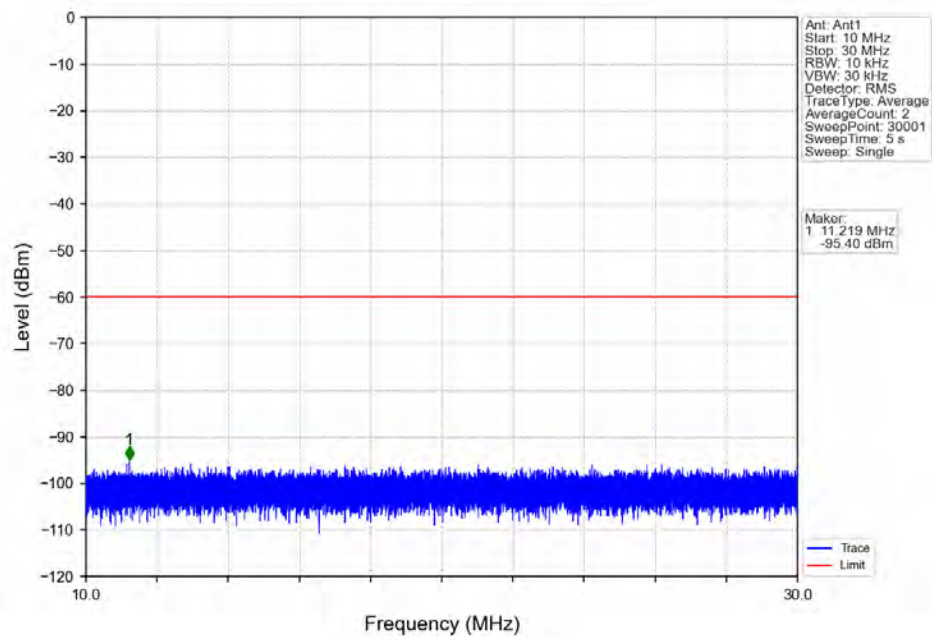
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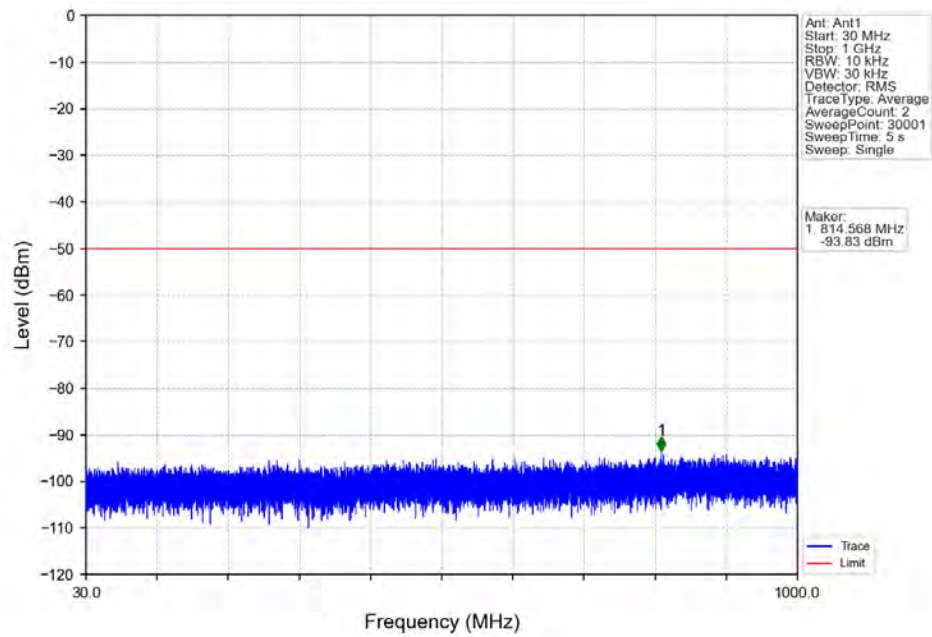
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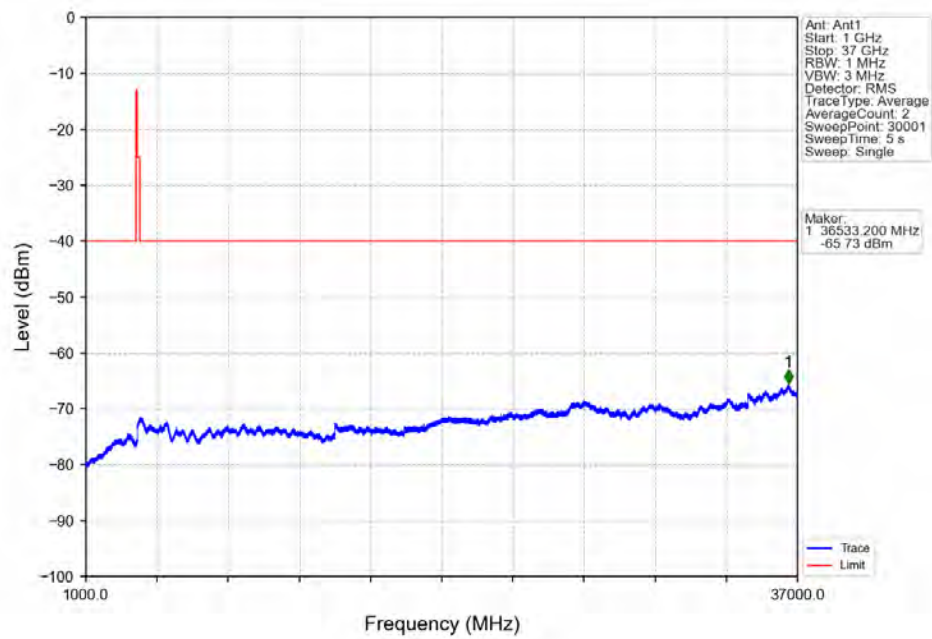
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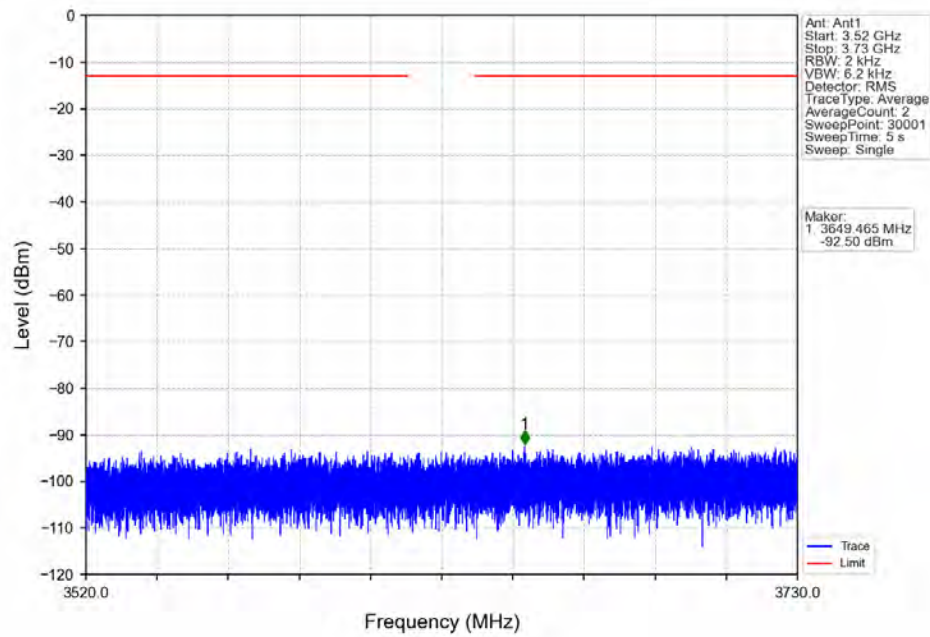
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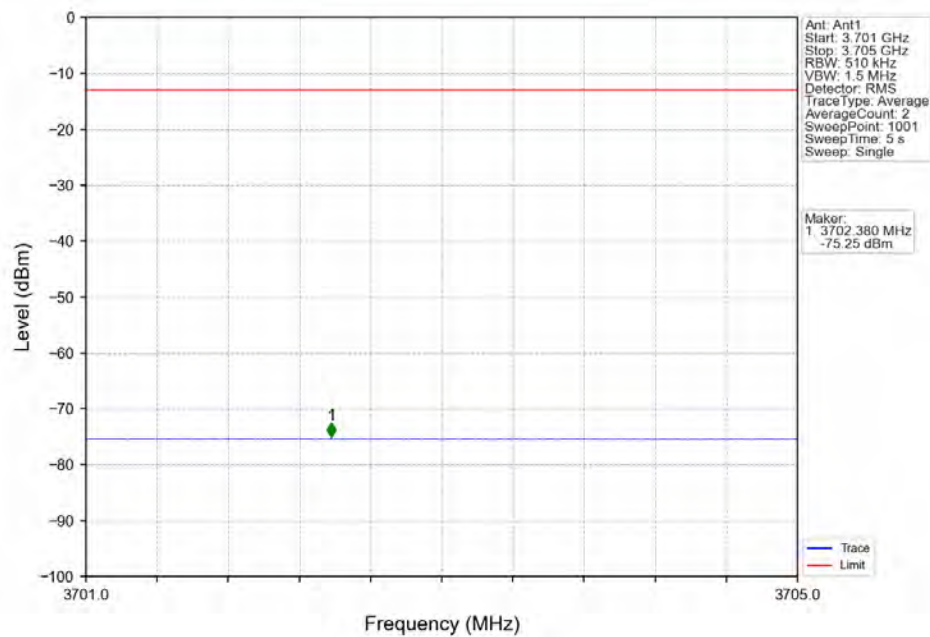
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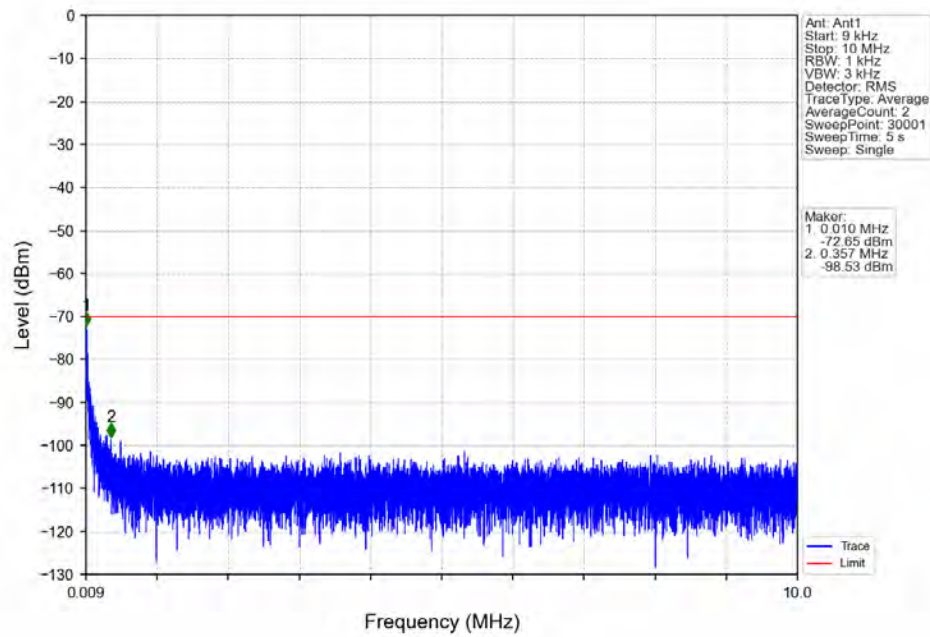
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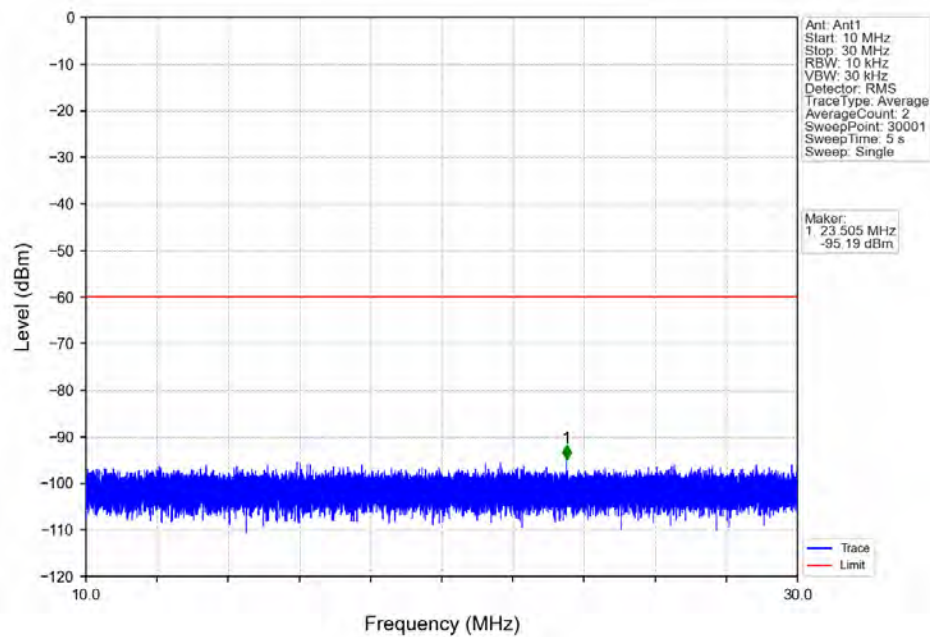
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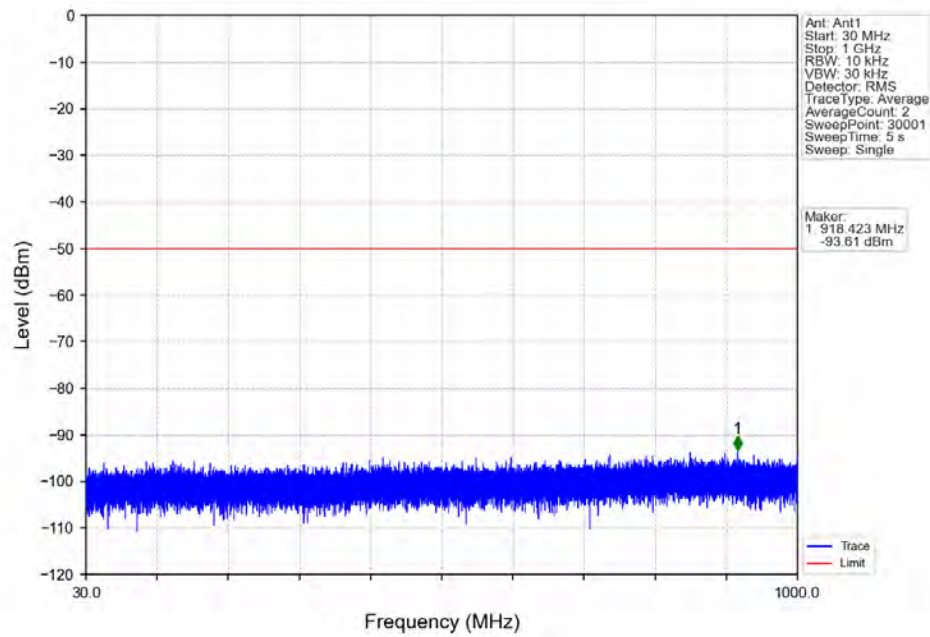
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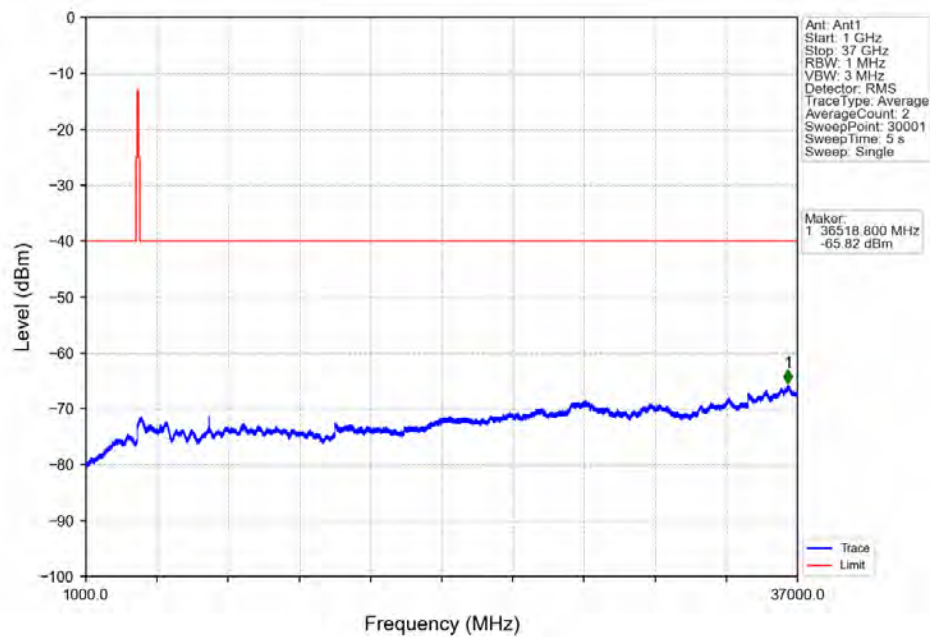
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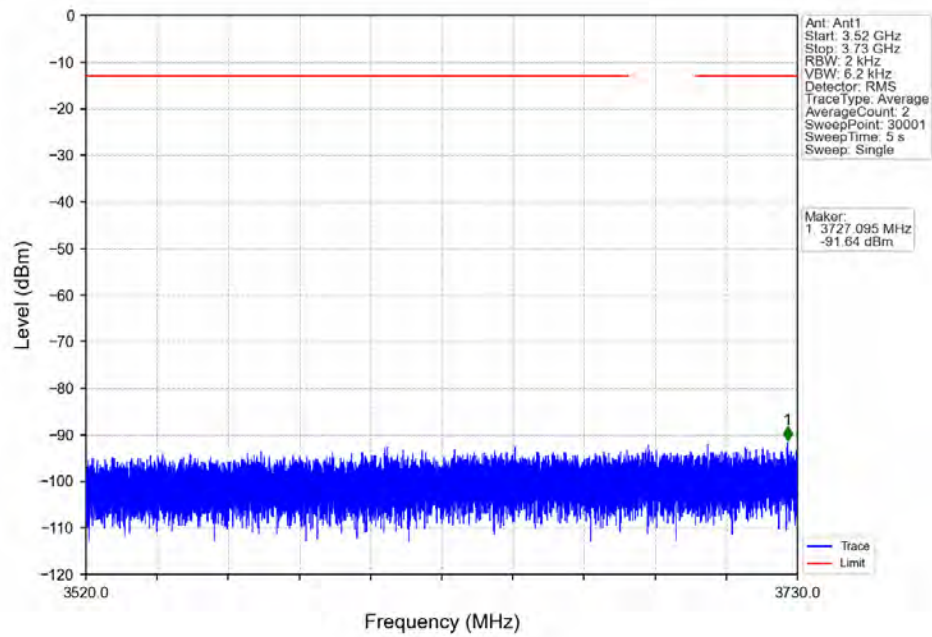
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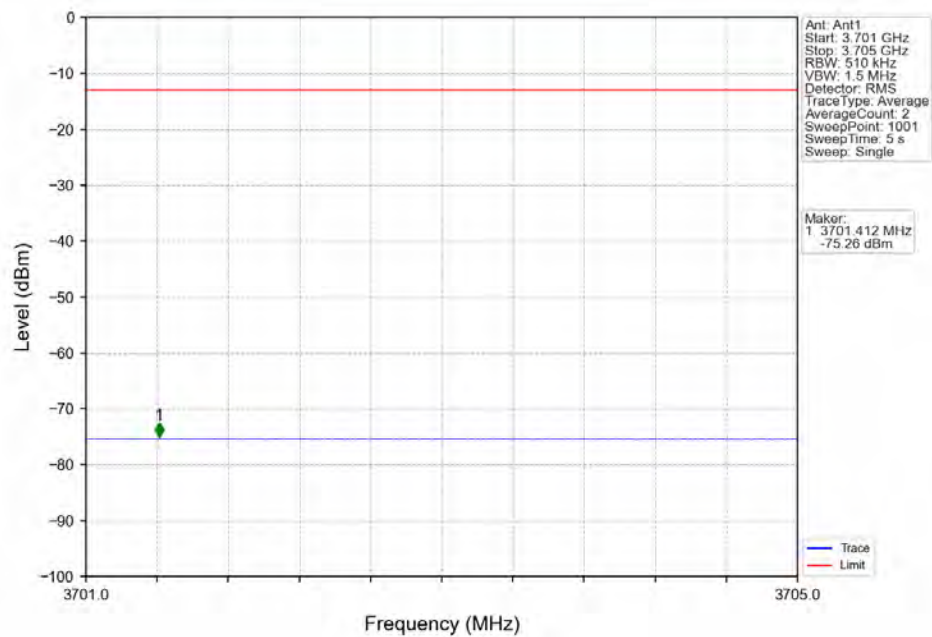
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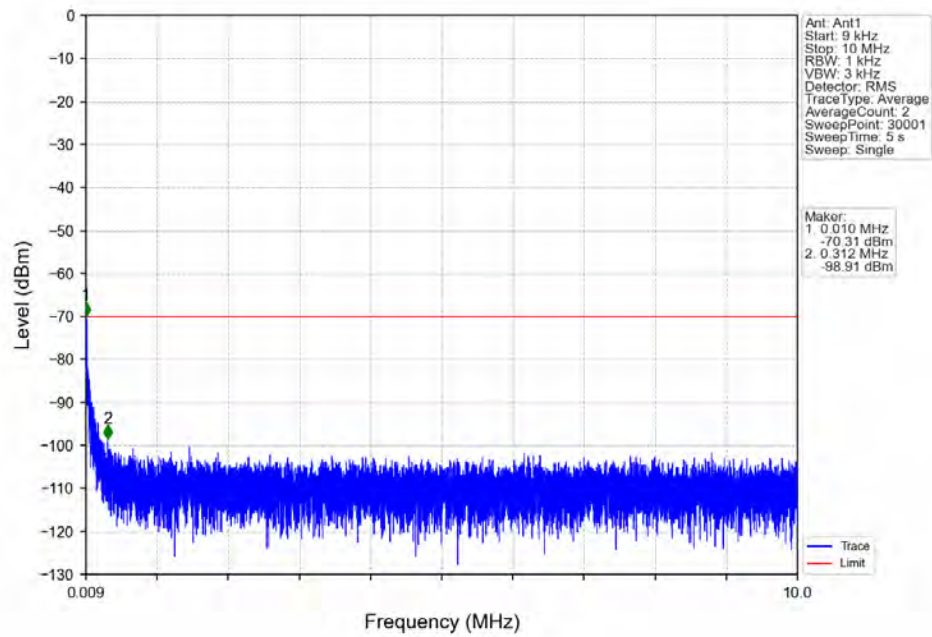
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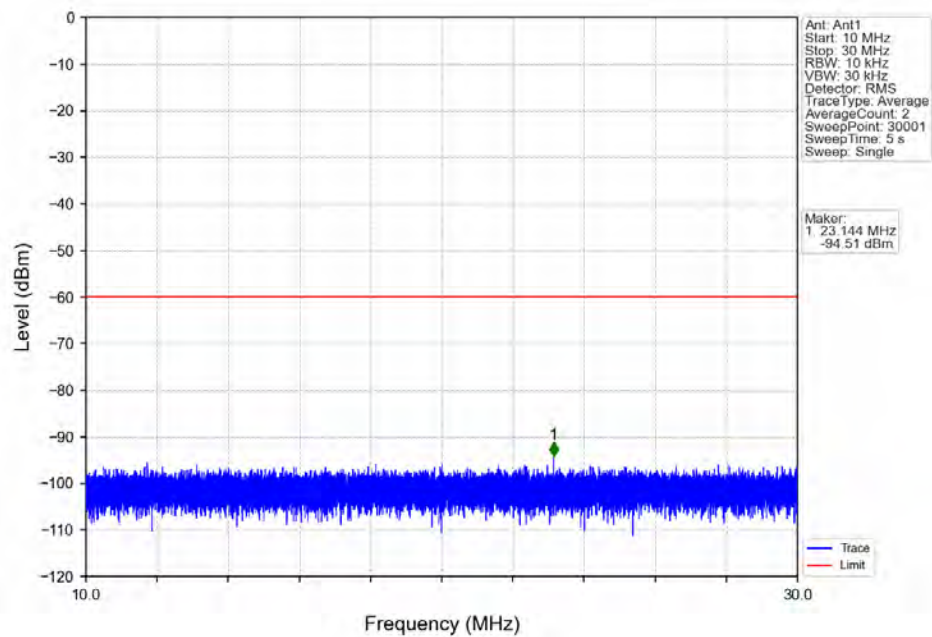
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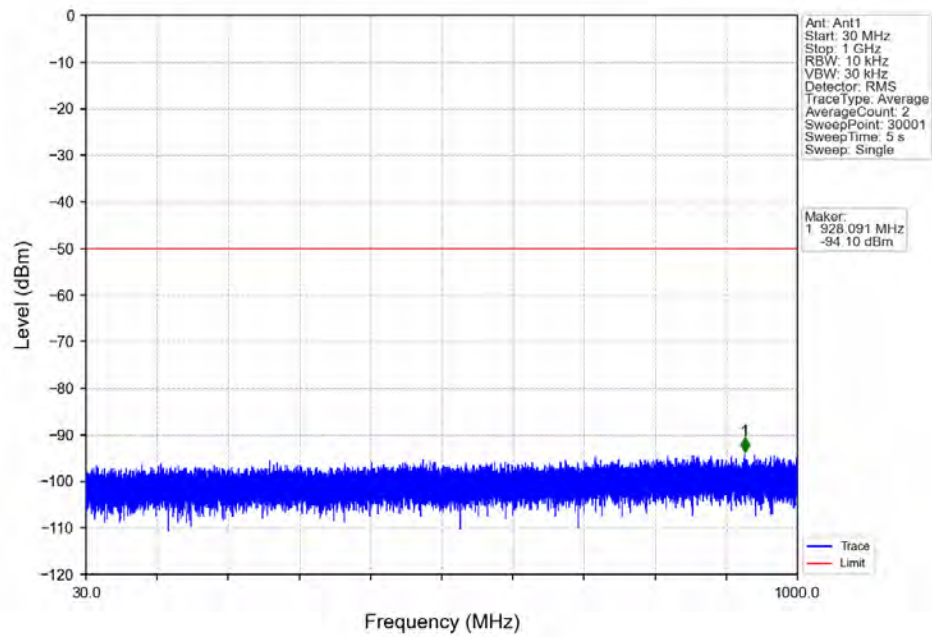
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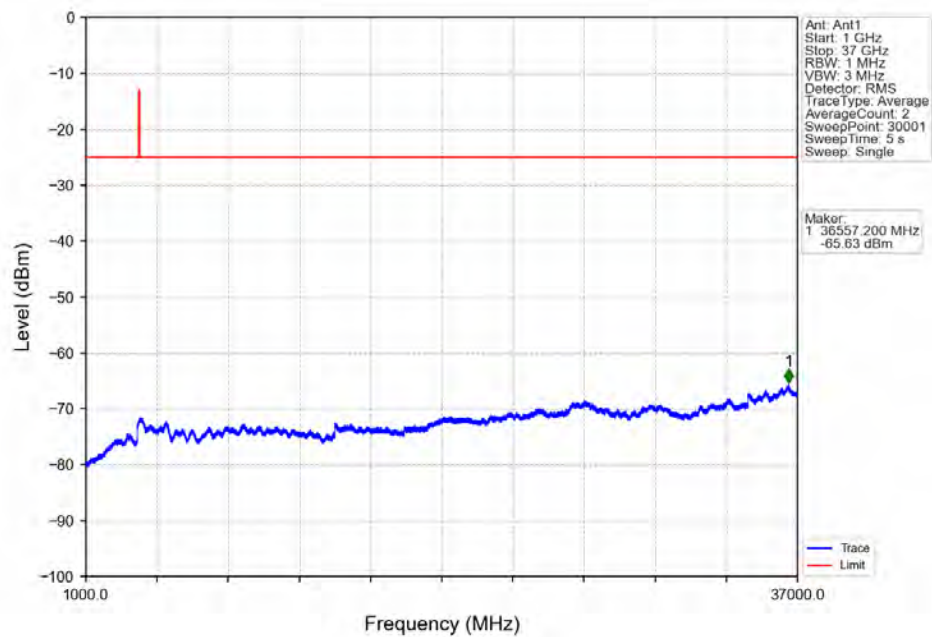
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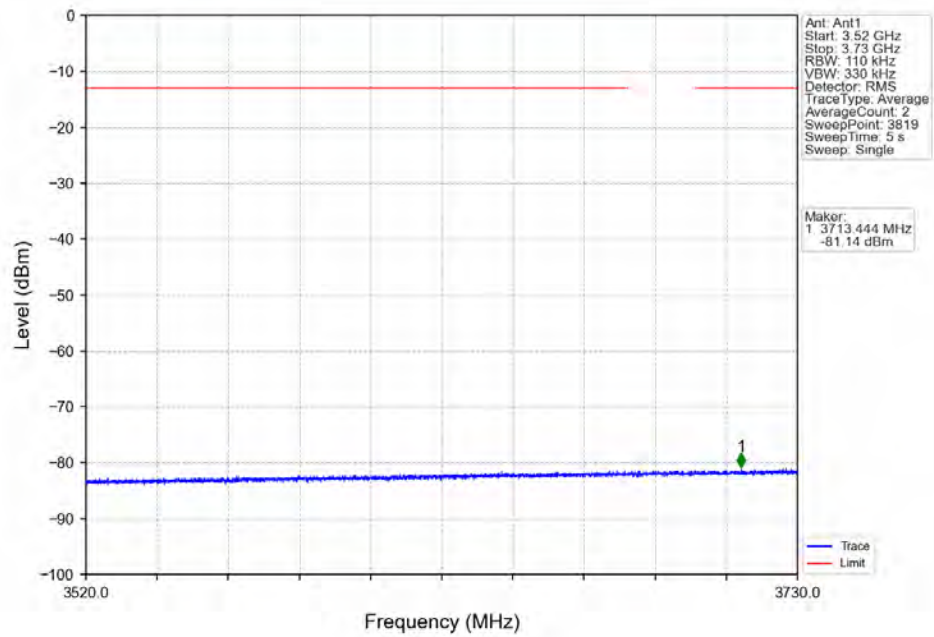
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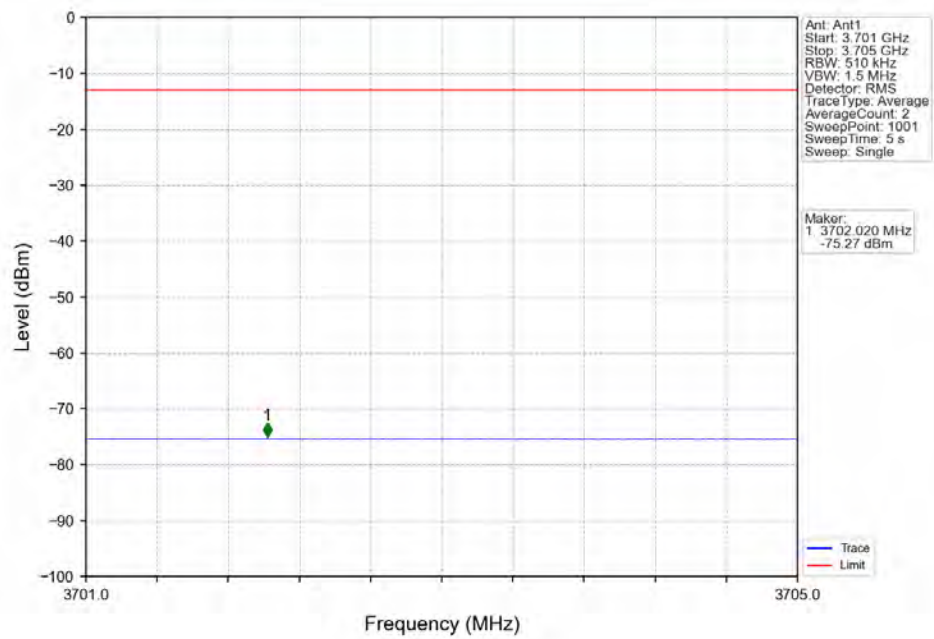
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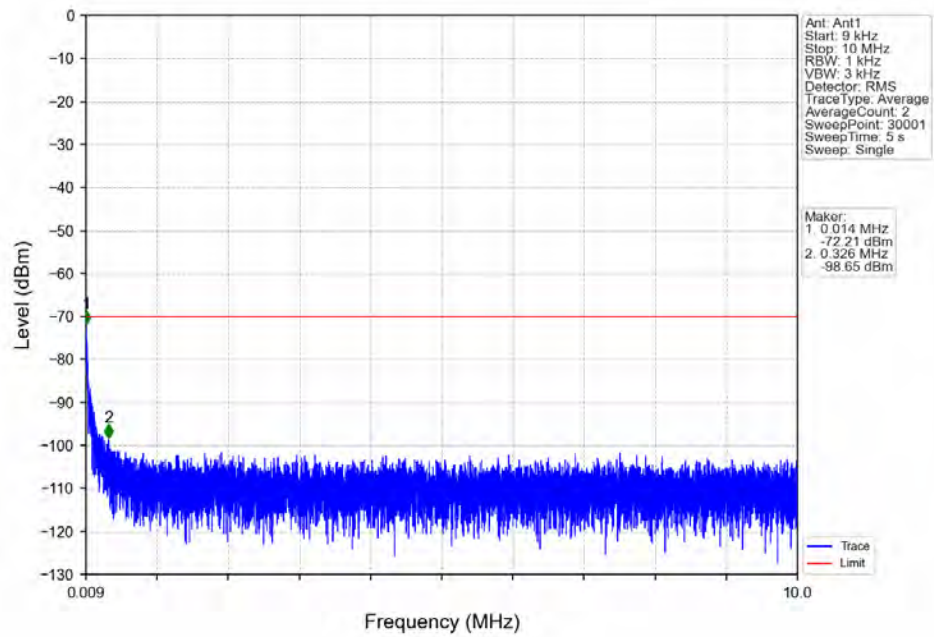
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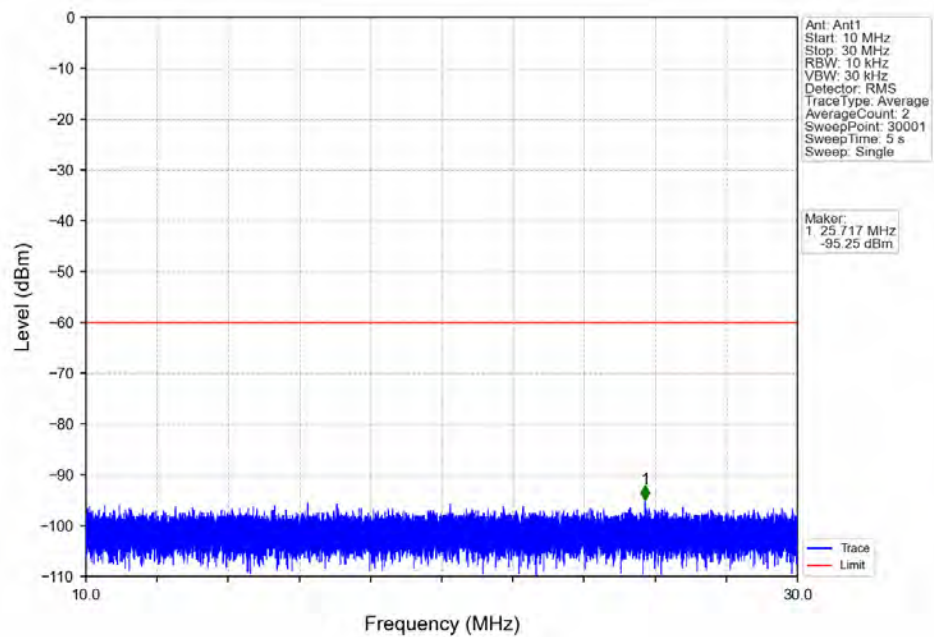
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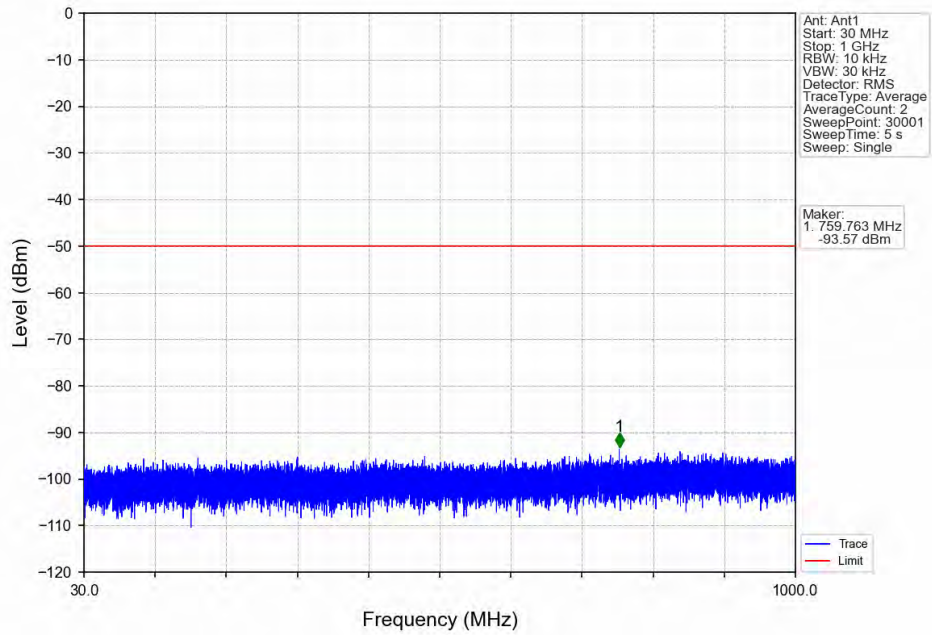
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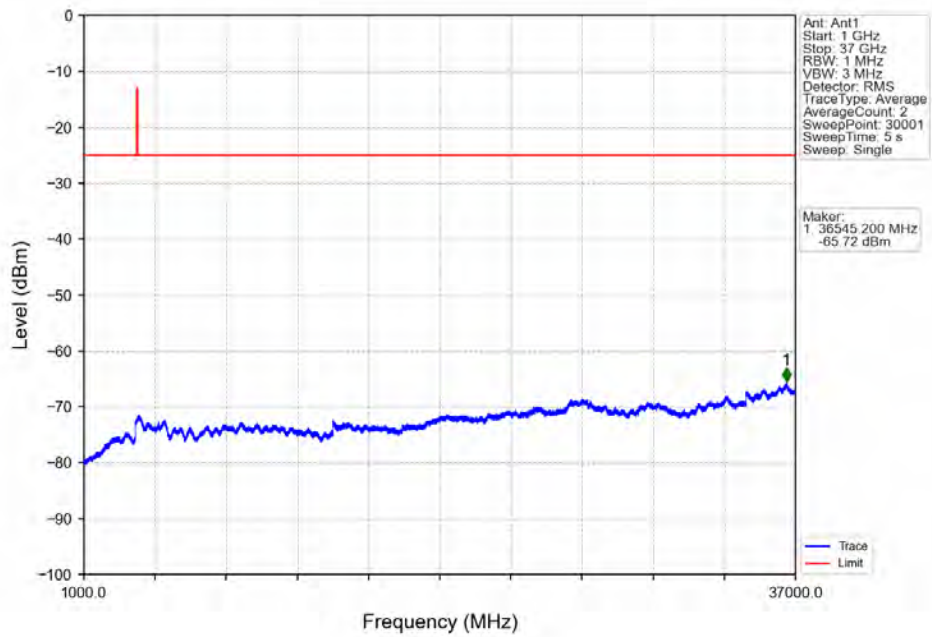
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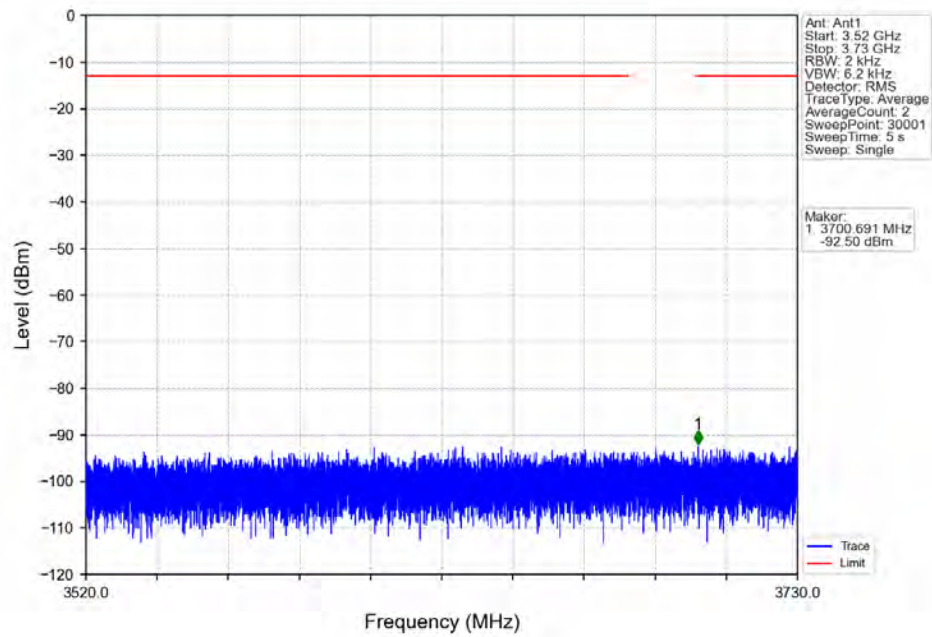
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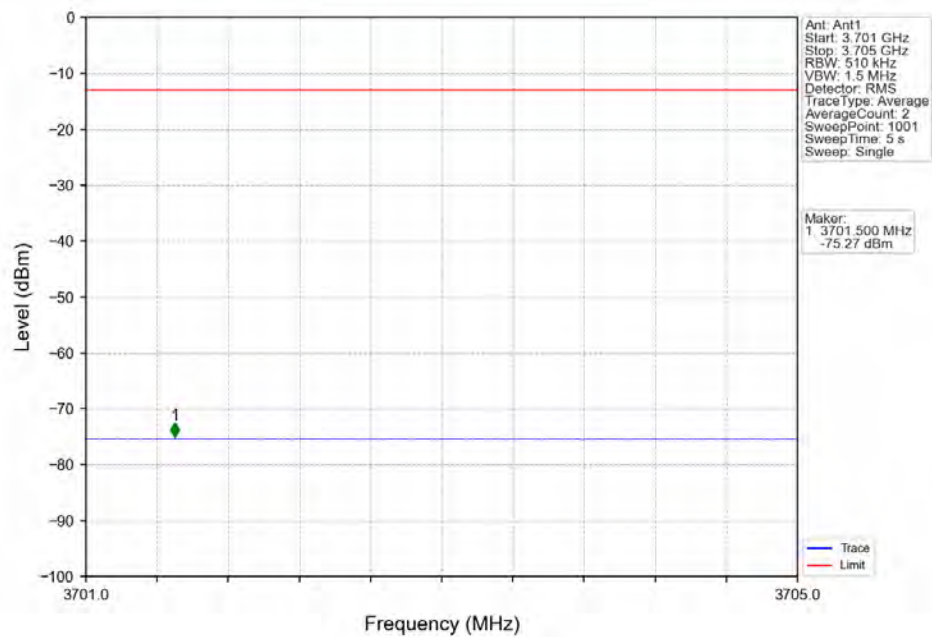
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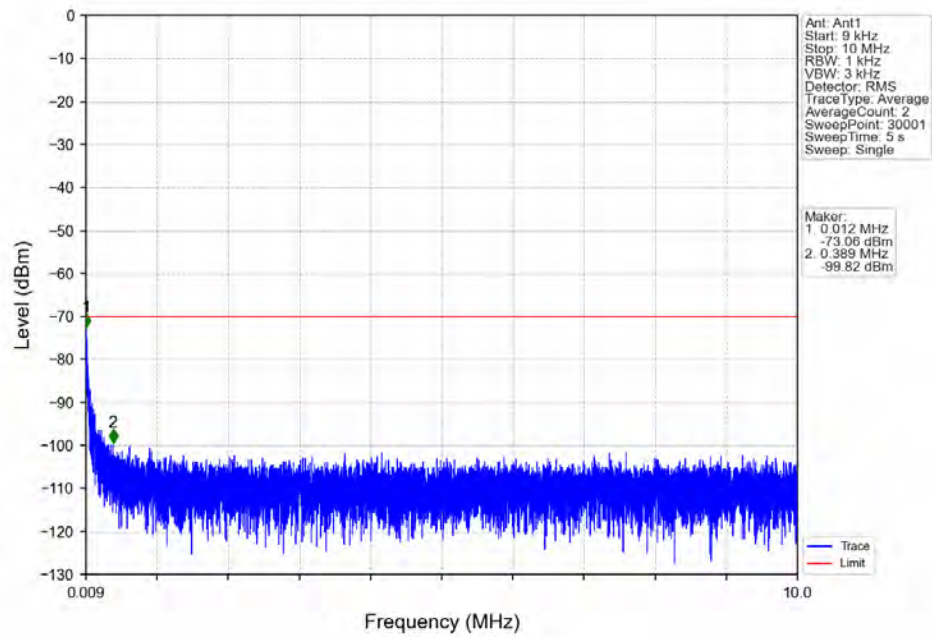
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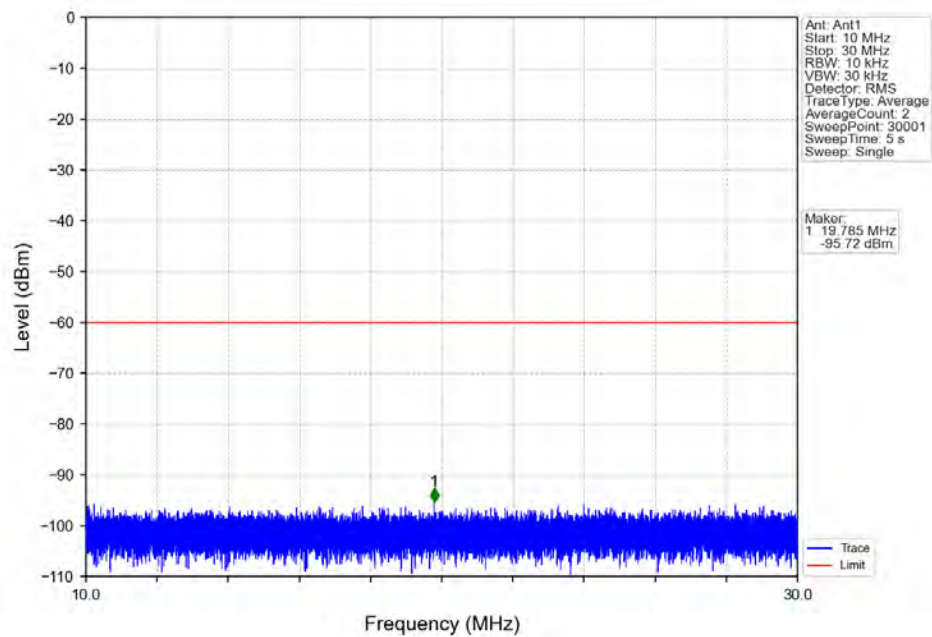
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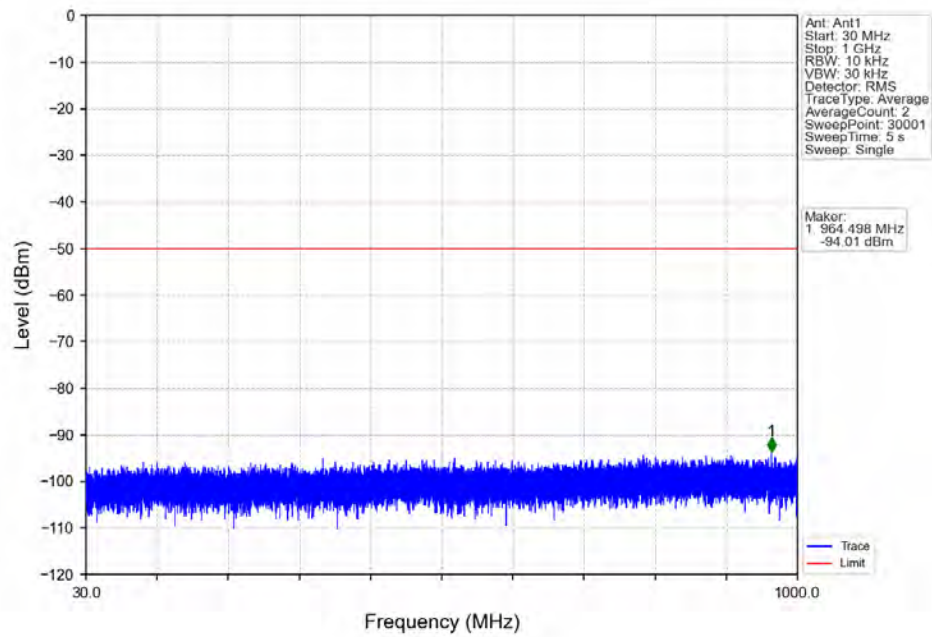
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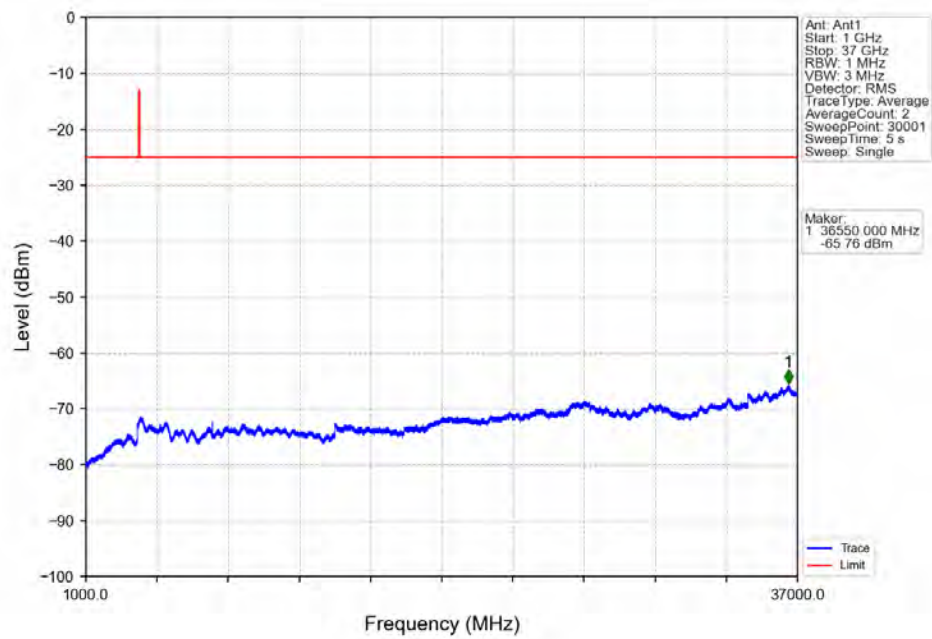
n48 30kHz SISO NTNv 20MHz CP-OFDM QPSK 3690MHz Inner 1RB Right



n48 30kHz SISO NTN 20MHz CP-OFDM QPSK 3690MHz Inner 1RB Right



n48 30kHz SISO NTN 20MHz CP-OFDM QPSK 3690MHz Inner 1RB Right

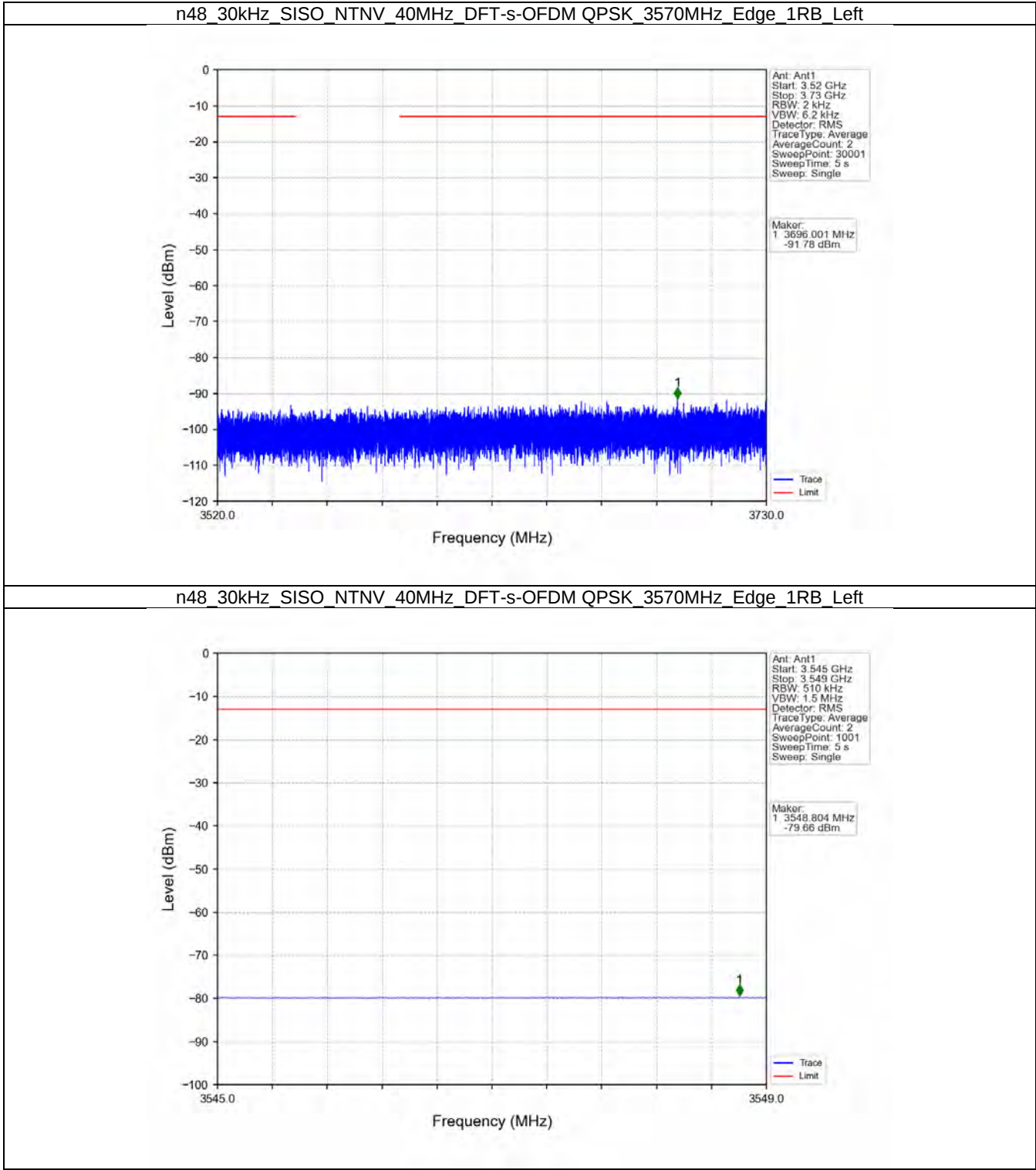


1.3 30k_SISO_40MHz_NTNV

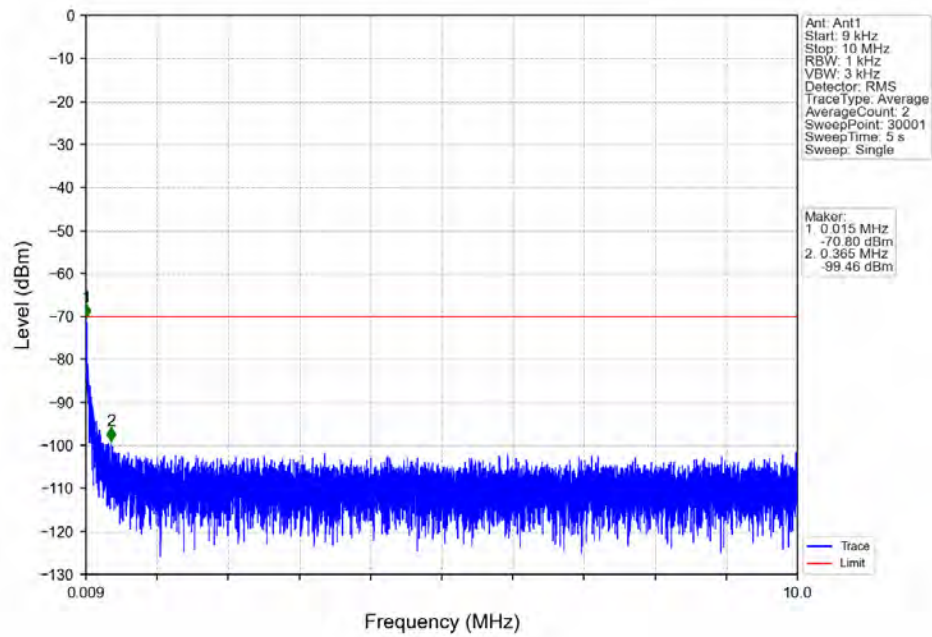
1.3.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3570	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3624.99	Edge_1RB_Left	Refer To Test Graph				Pass
	3679.98	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	3570	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3624.99	Edge_1RB_Left	Refer To Test Graph				Pass
	3679.98	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass

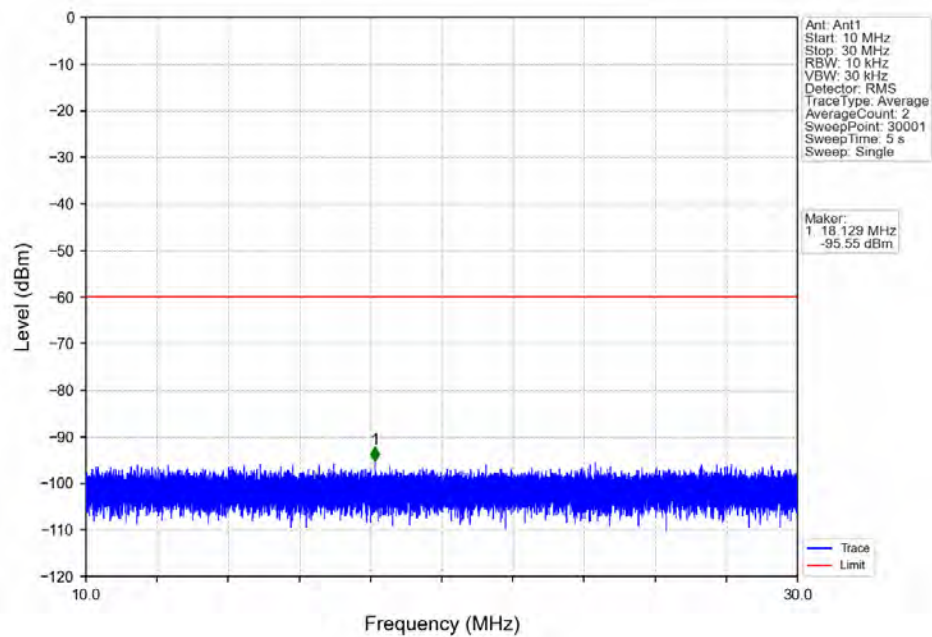
1.3.2 Test Graph



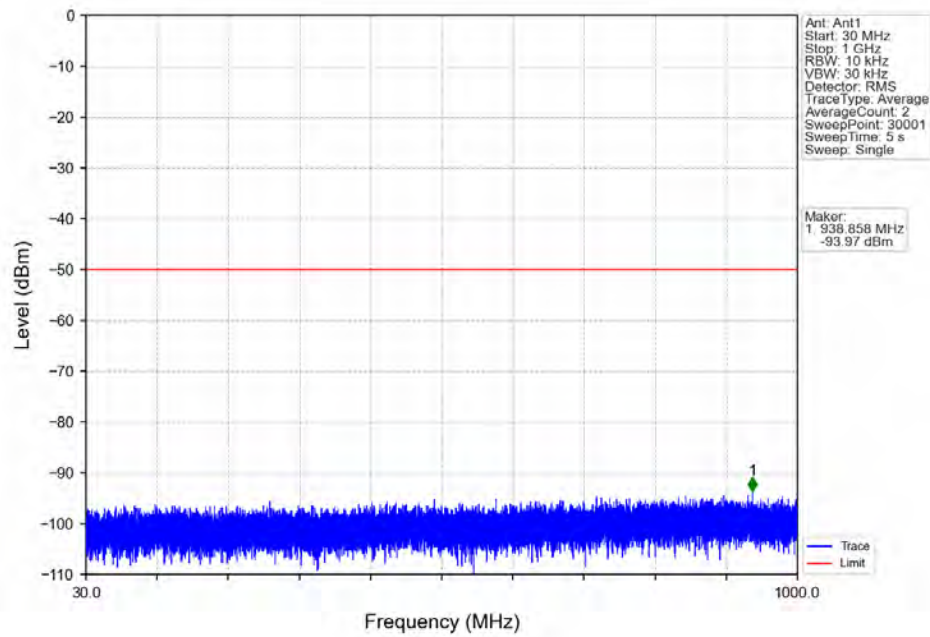
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3570MHz Edge 1RB Left



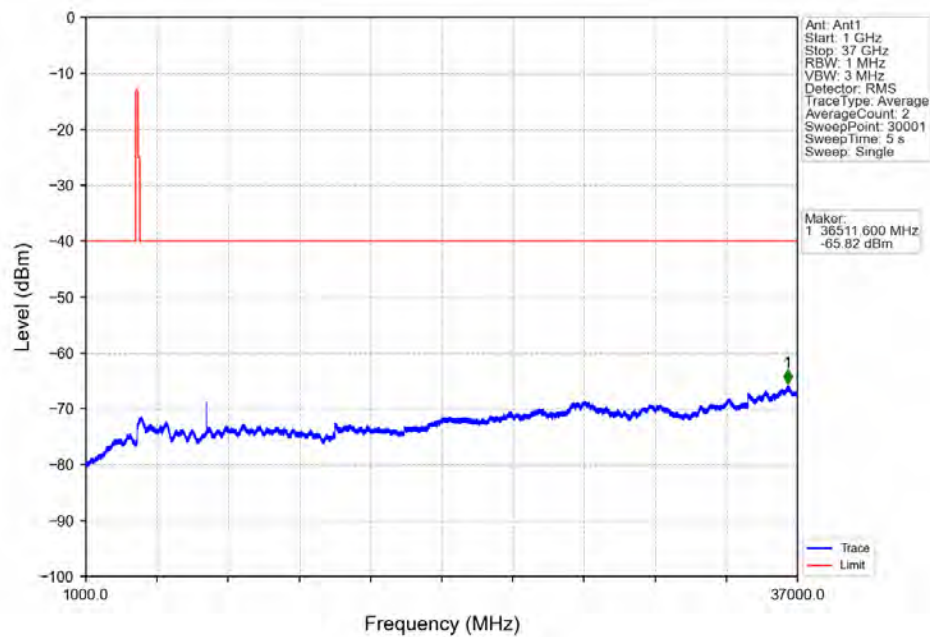
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3570MHz Edge 1RB Left



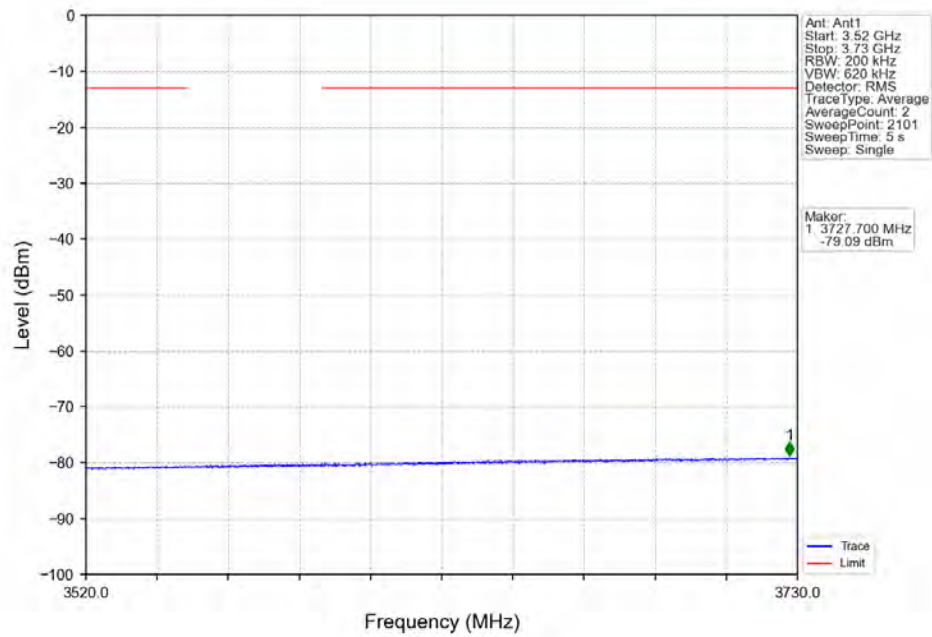
n48 30kHz SISO NTV 40MHz DFT-s-OFDM QPSK 3570MHz Edge 1RB Left



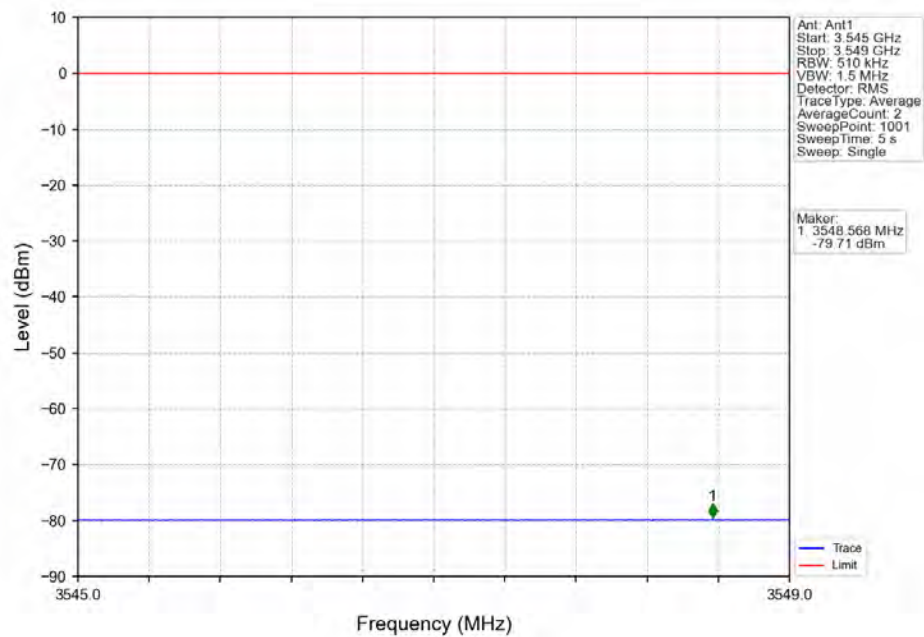
n48 30kHz SISO NTV 40MHz DFT-s-OFDM QPSK 3570MHz Edge 1RB Left



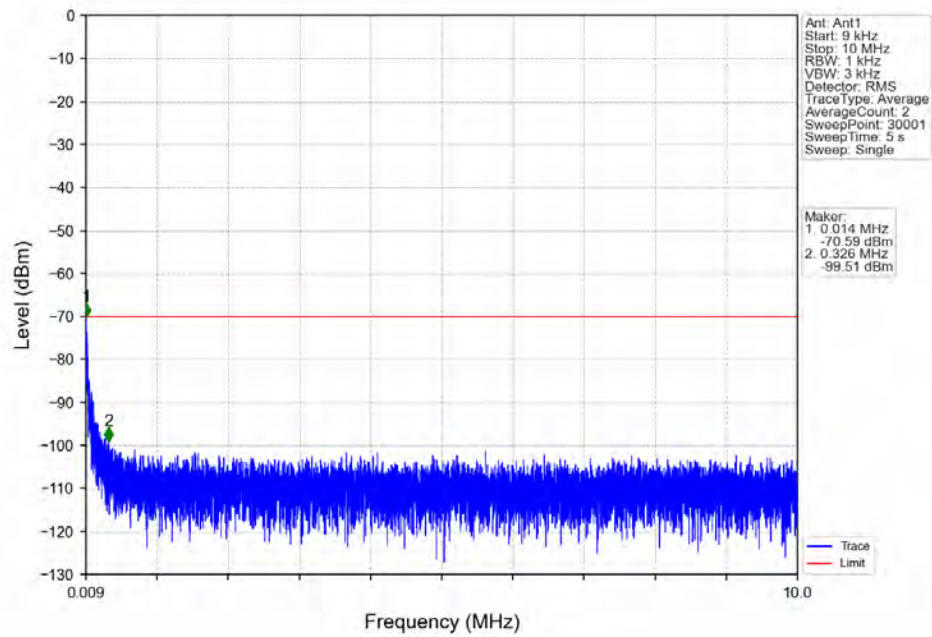
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3570MHz Outer Full



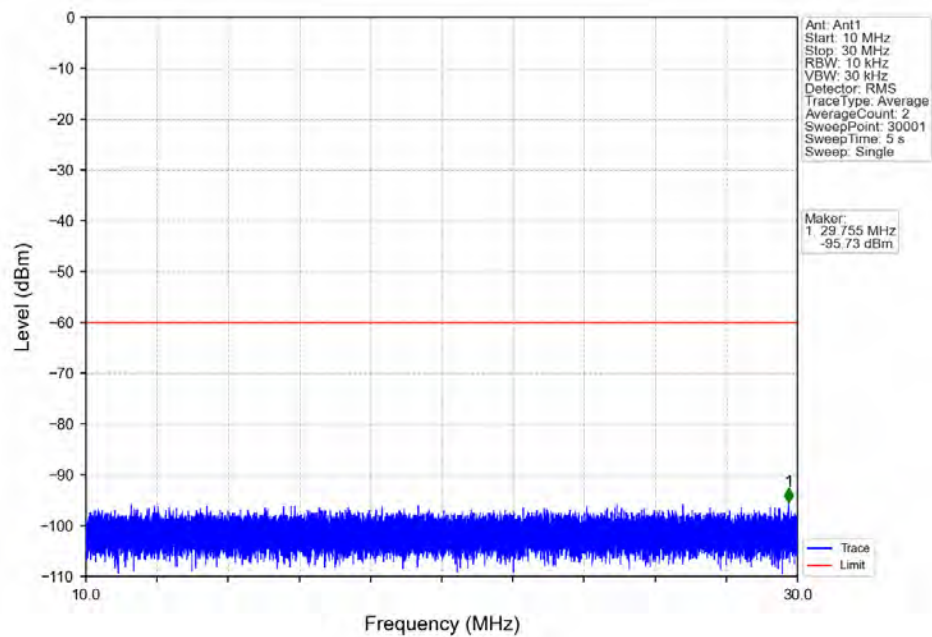
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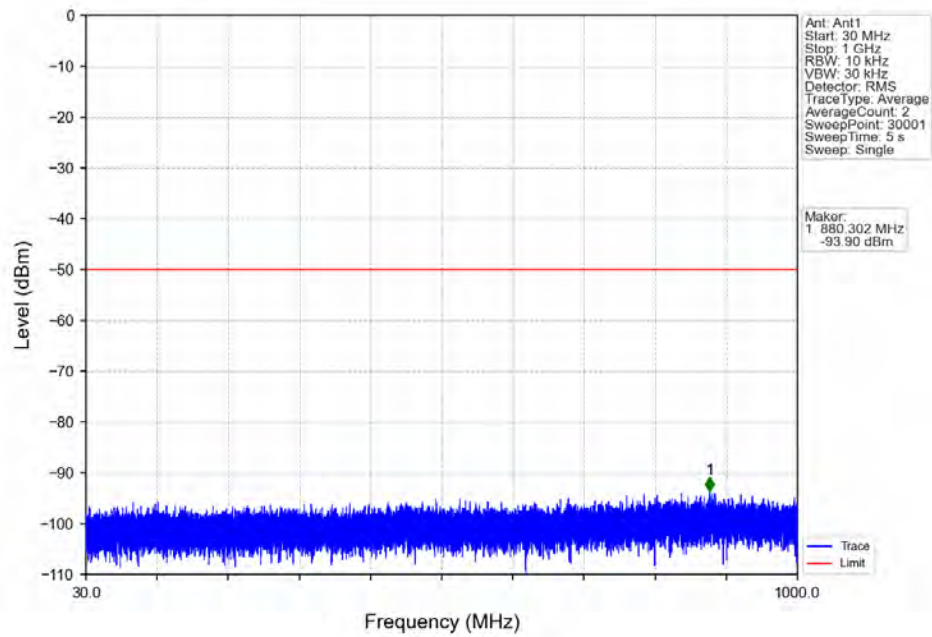
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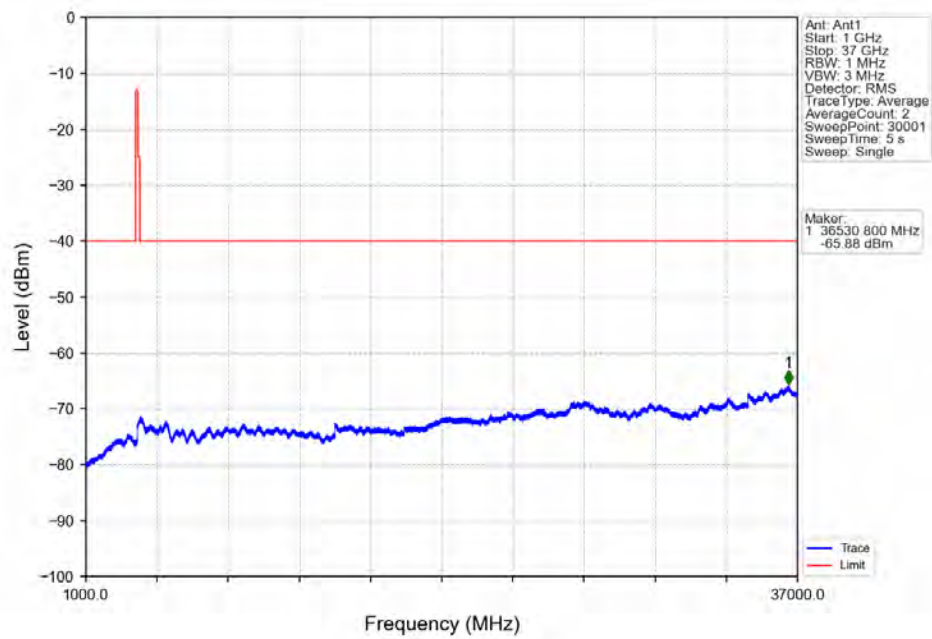
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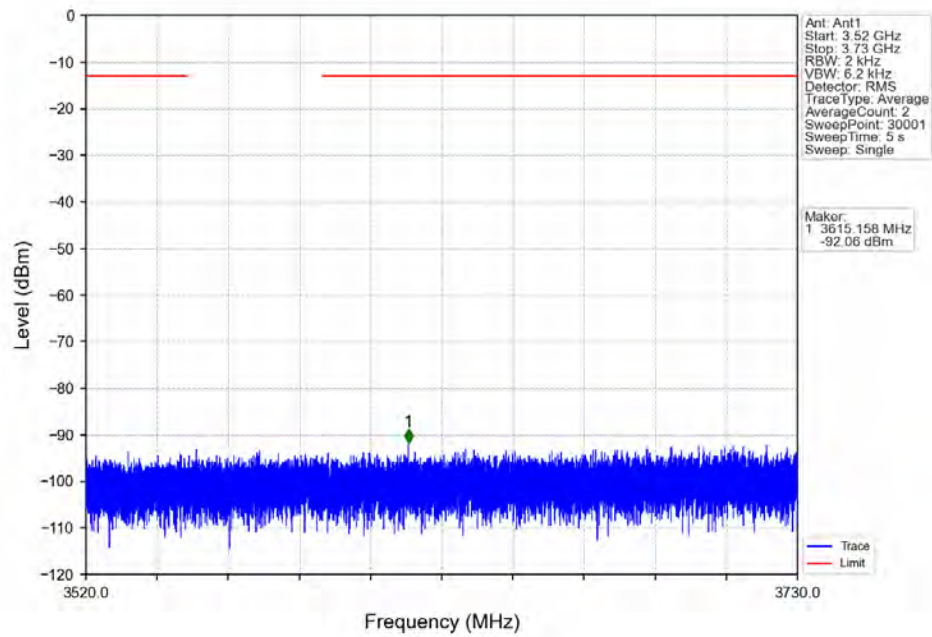
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3570MHz Outer Full



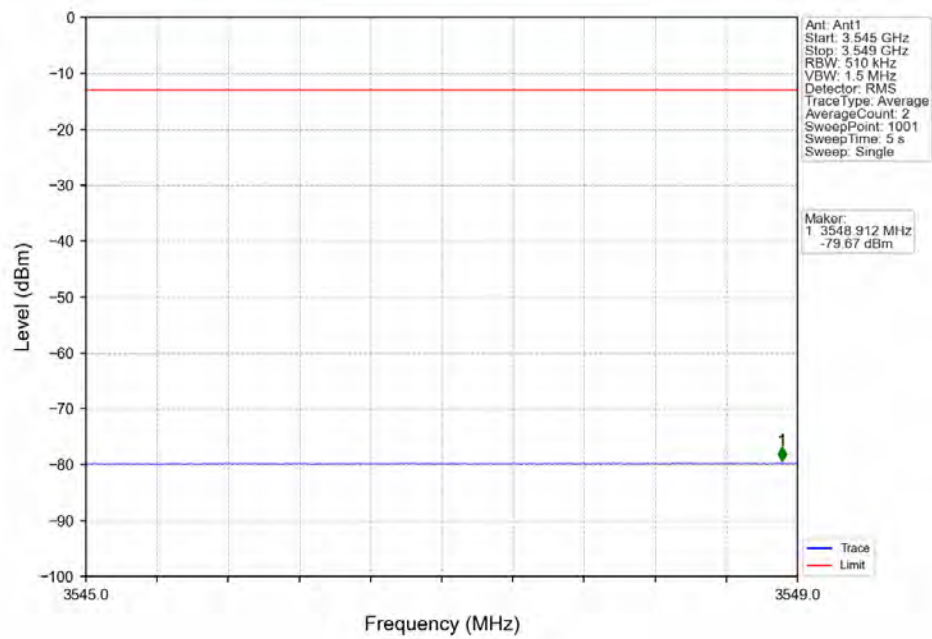
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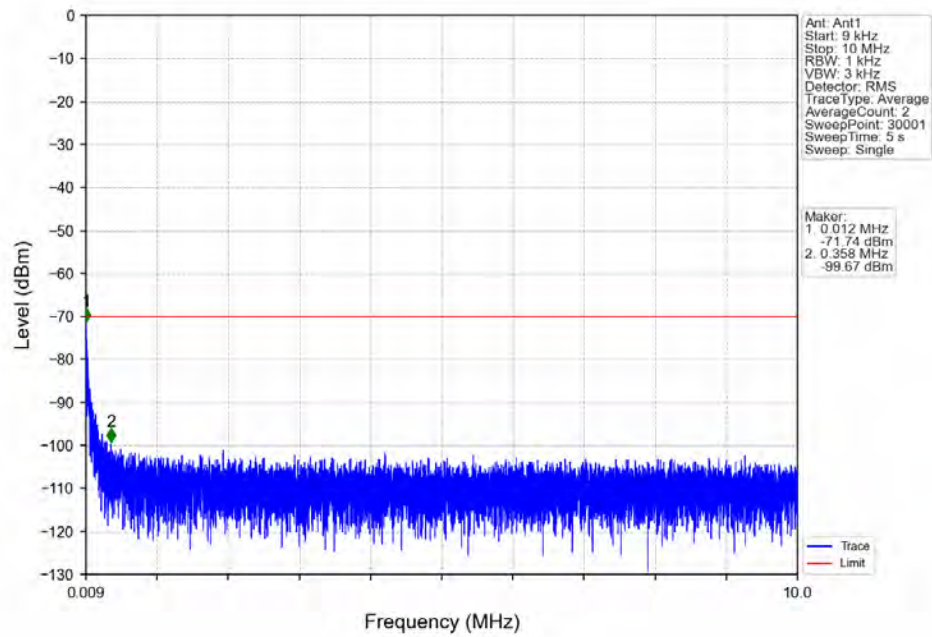
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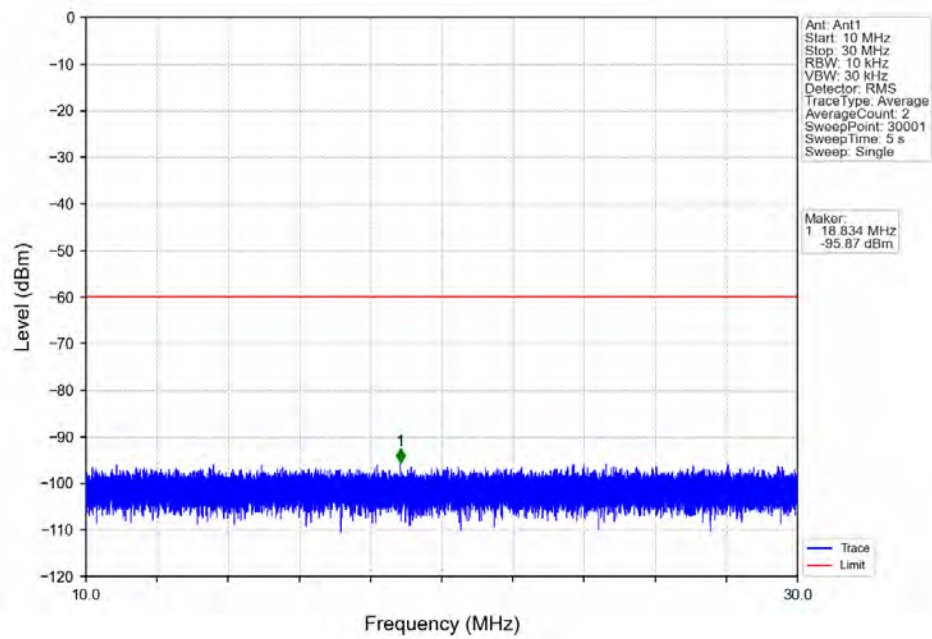
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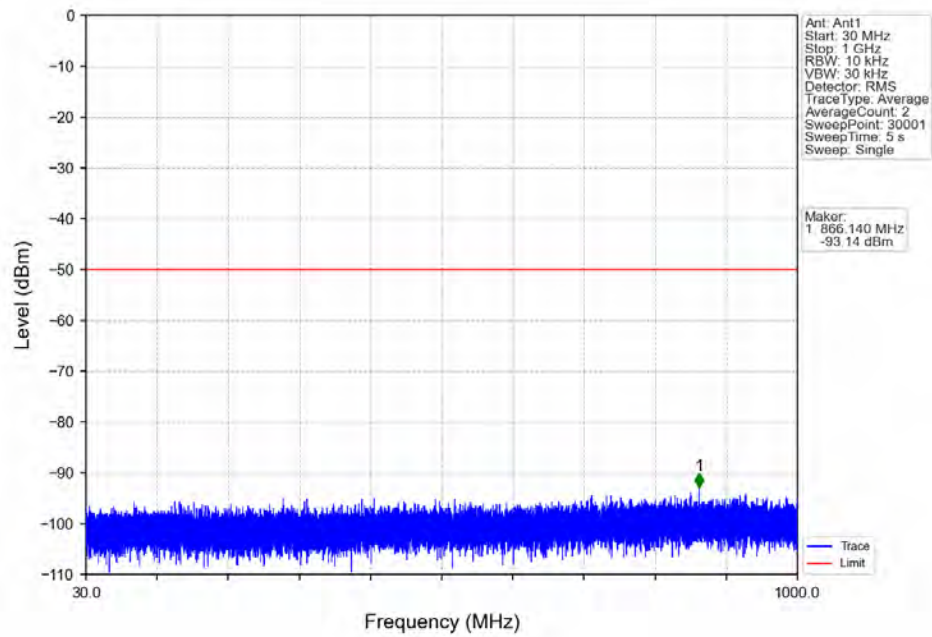
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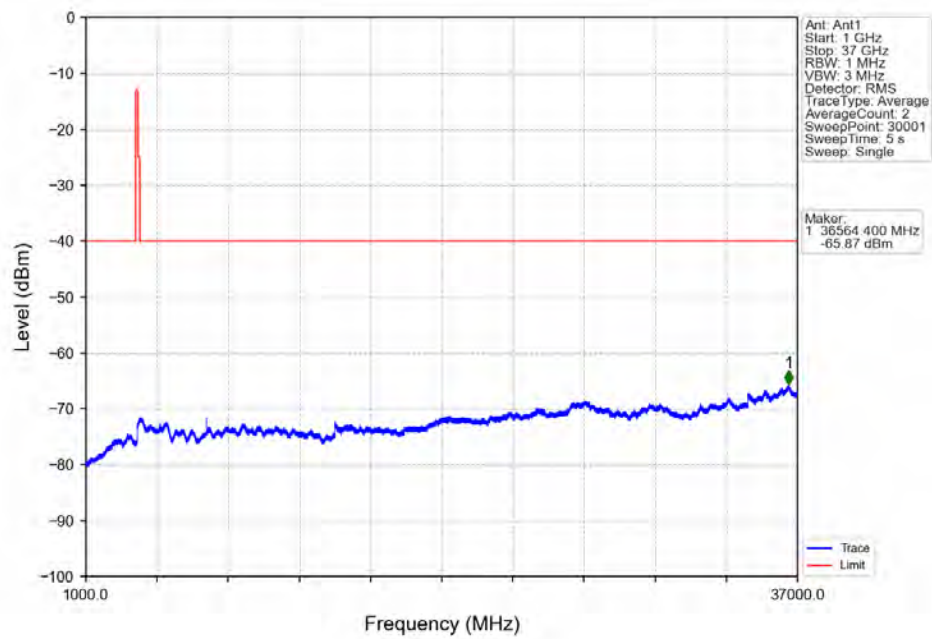
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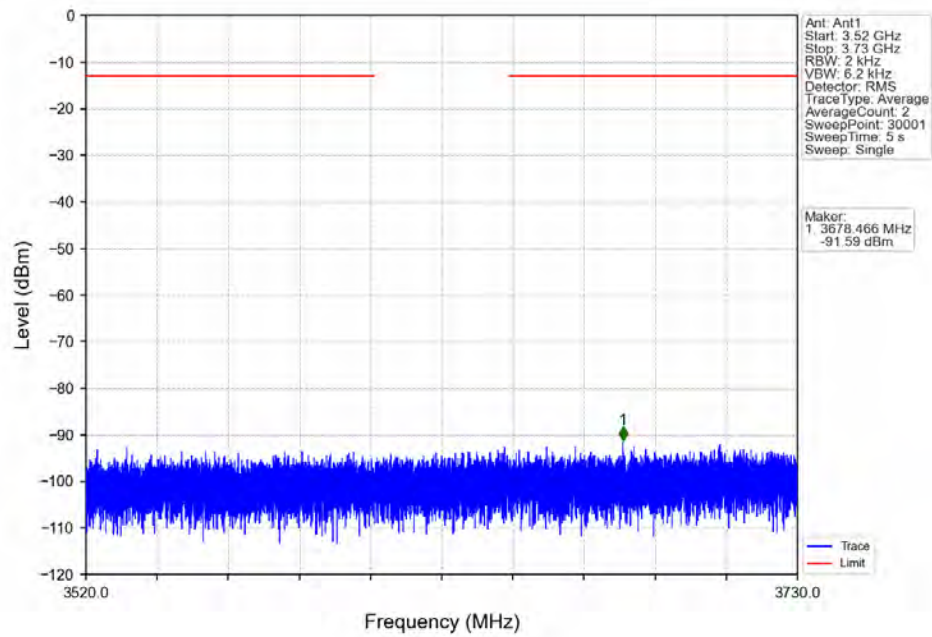
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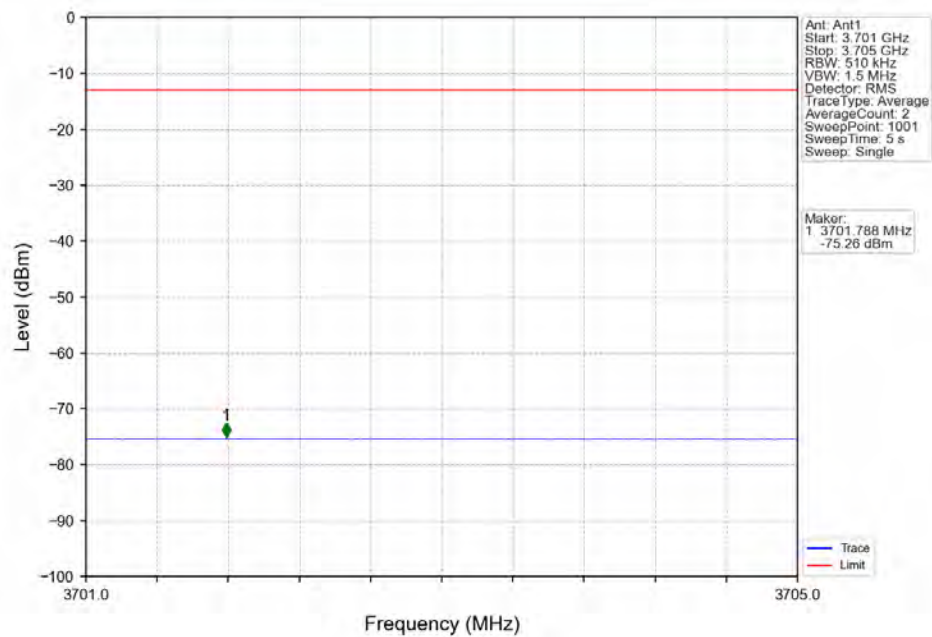
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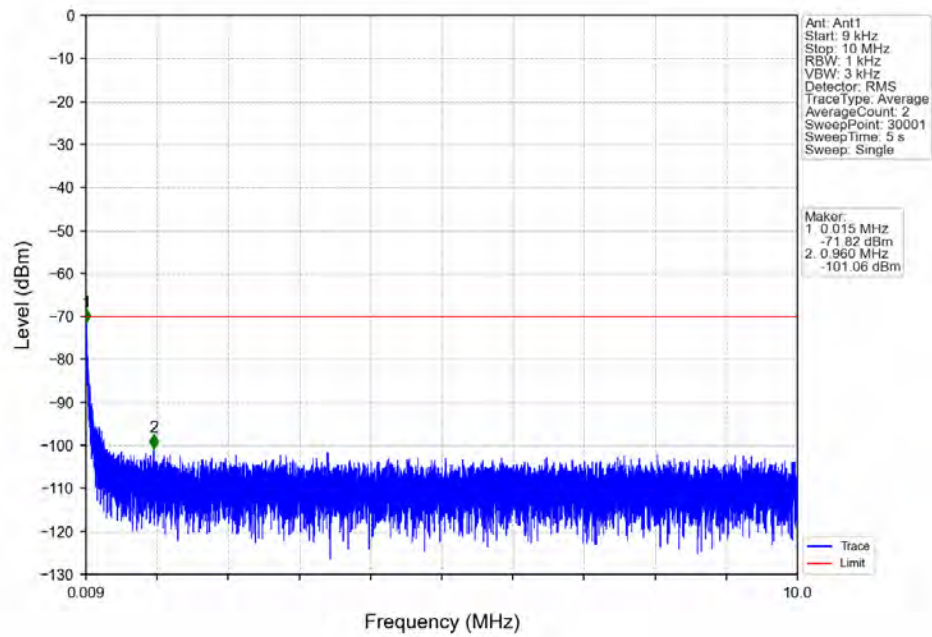
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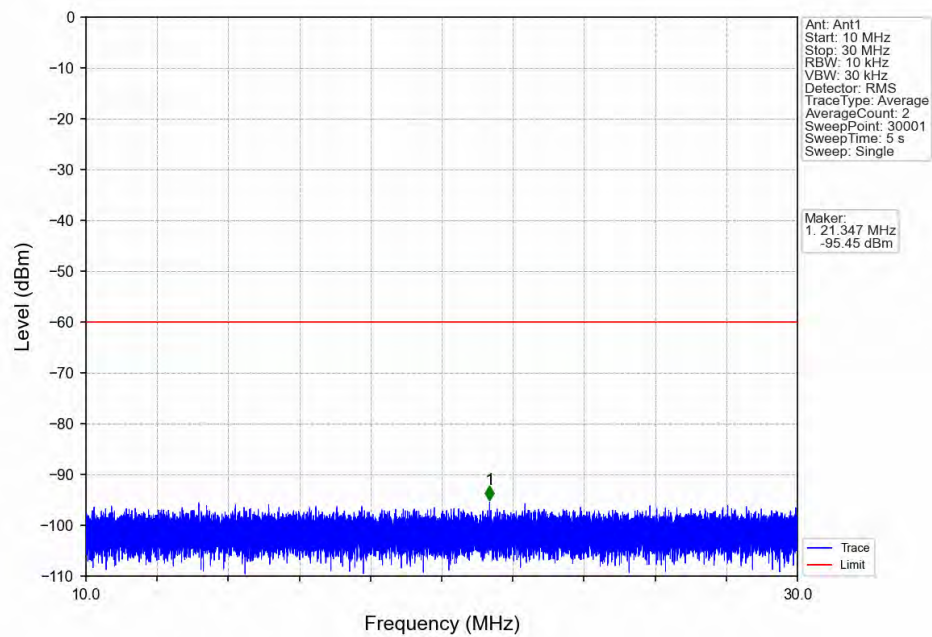
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3624.99MHz Edge 1RB Left



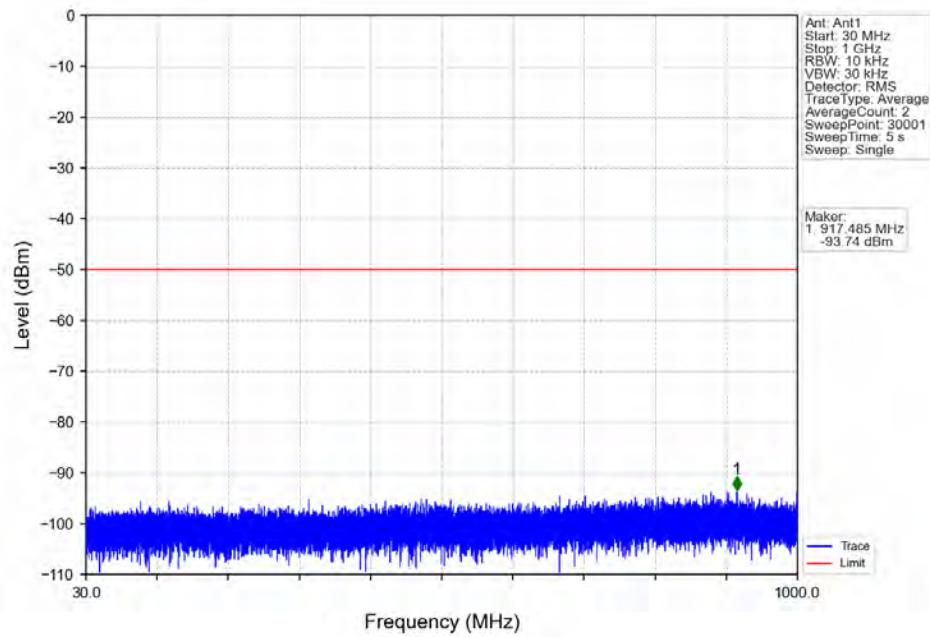
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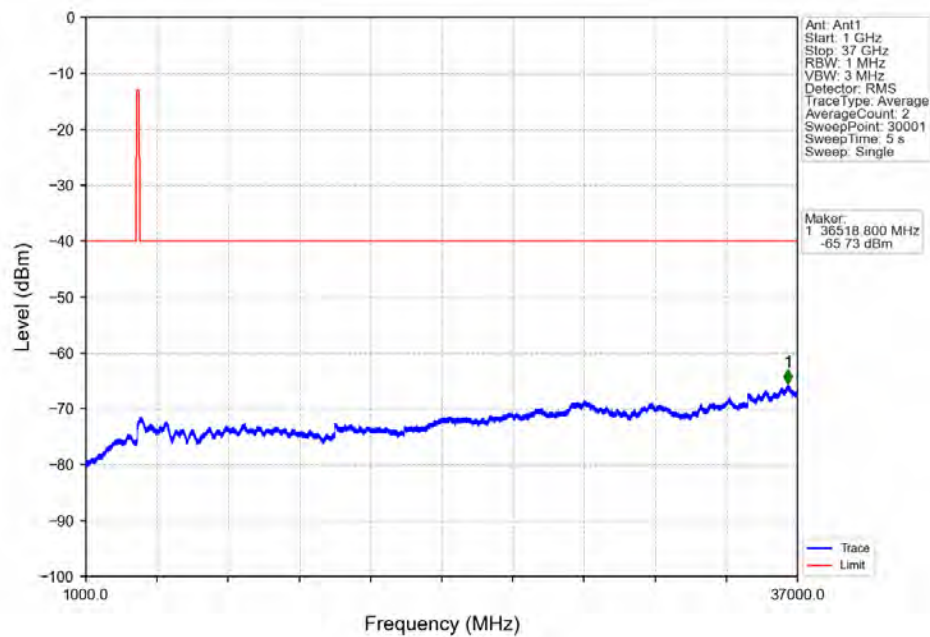
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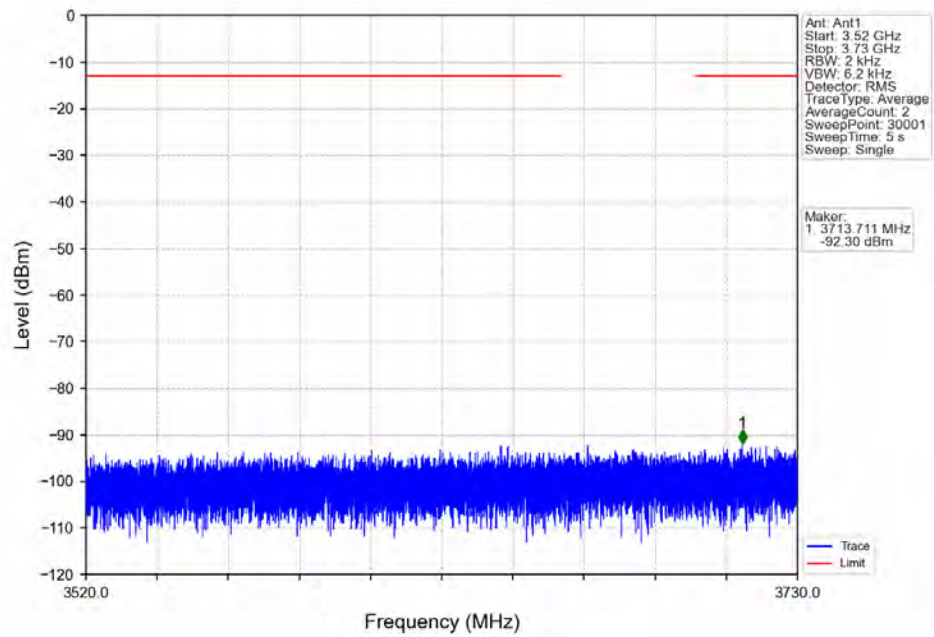
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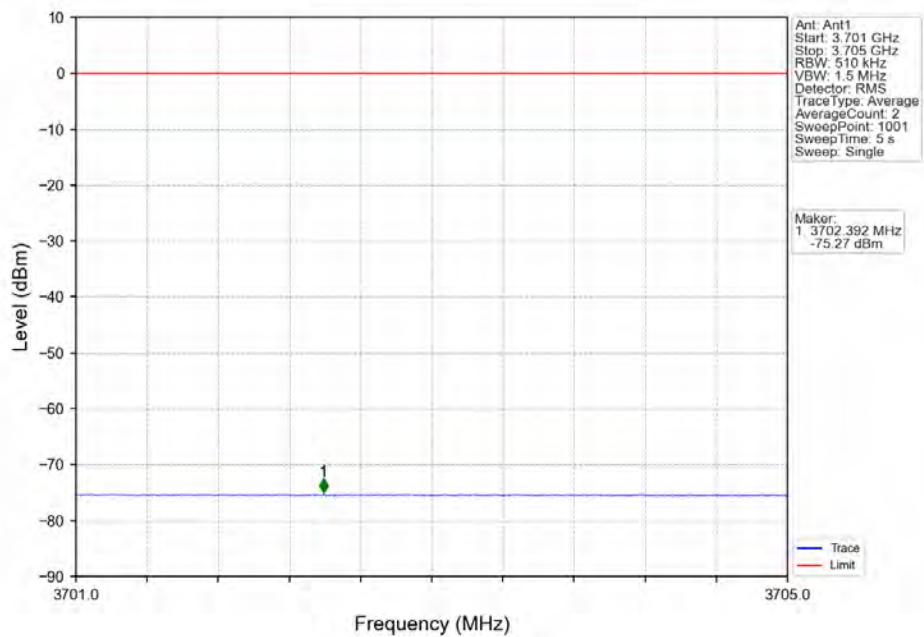
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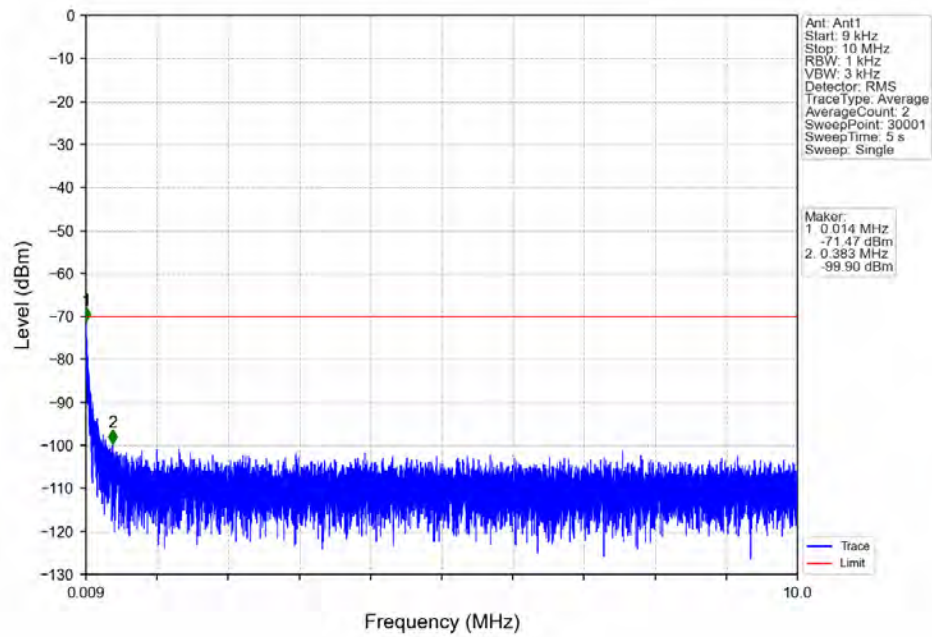
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3679.98MHz Edge 1RB Right



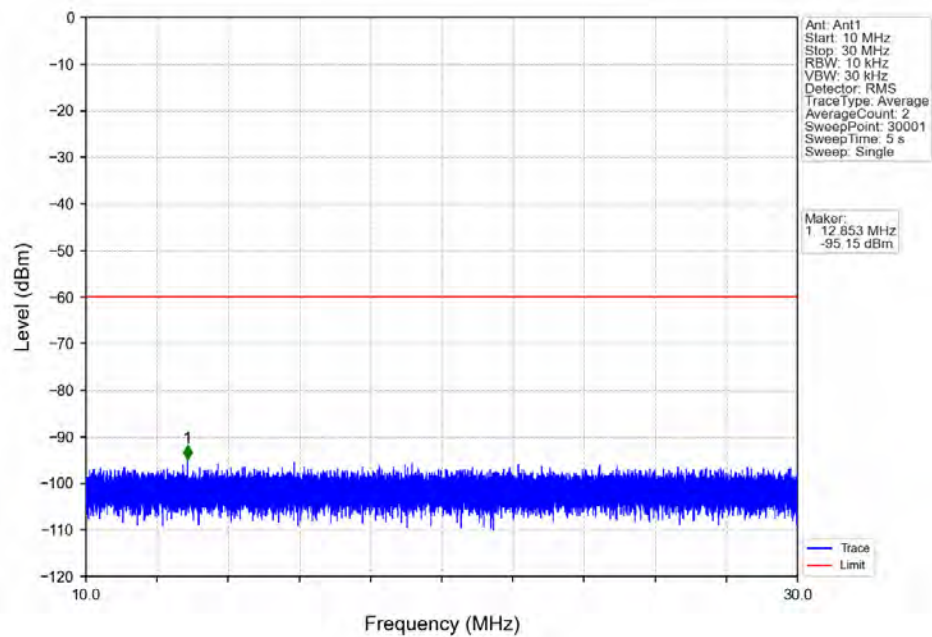
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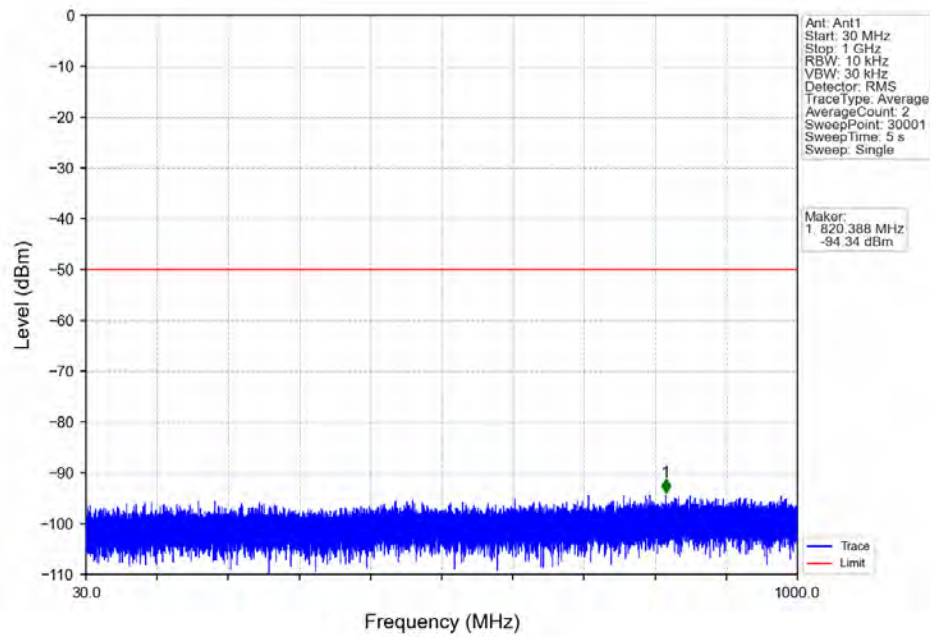
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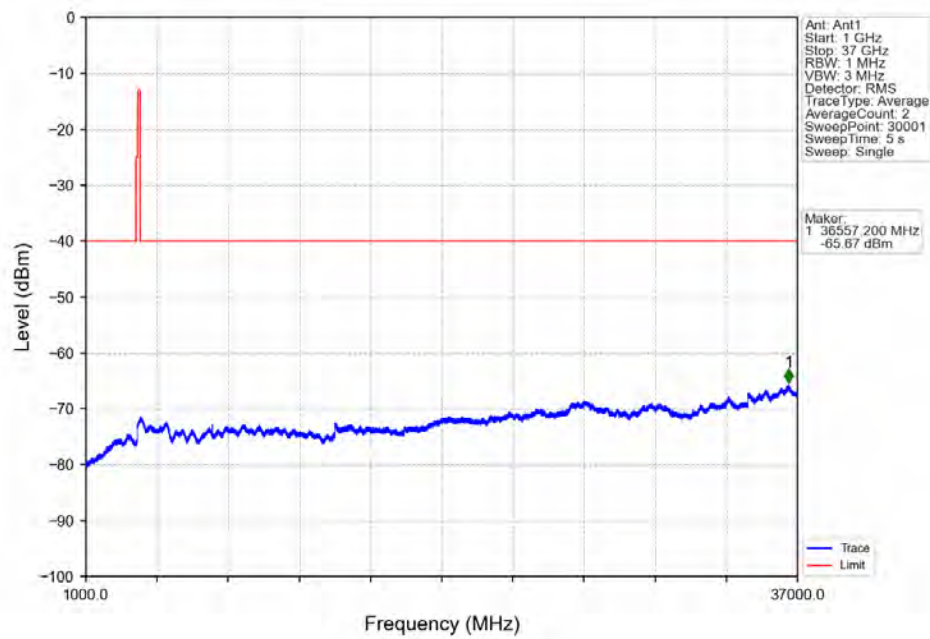
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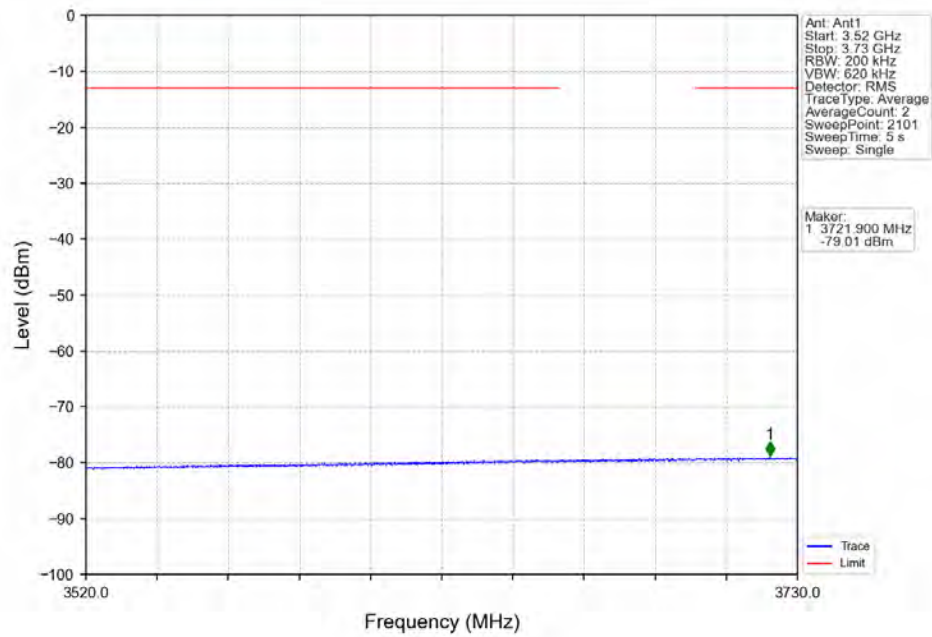
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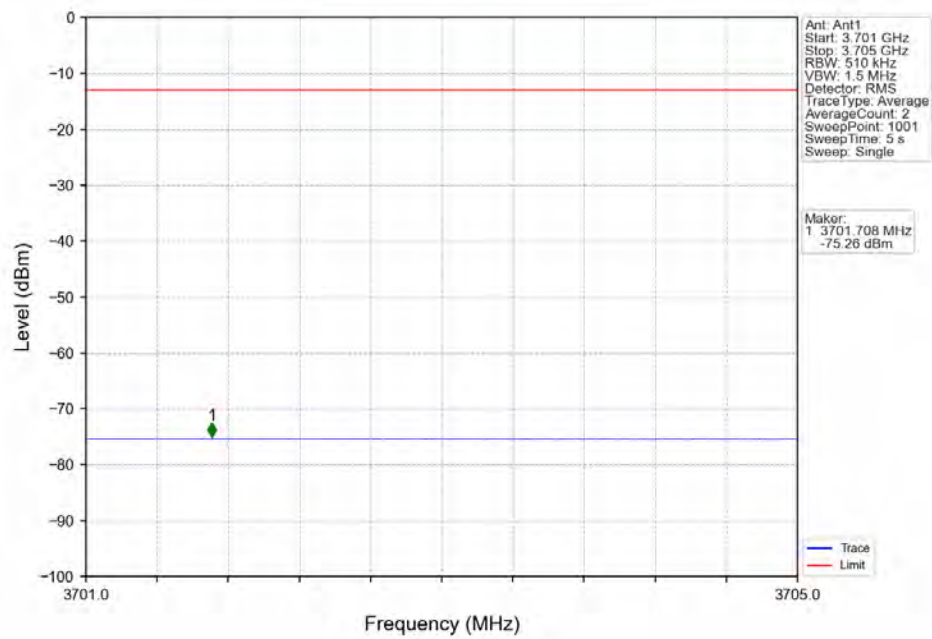
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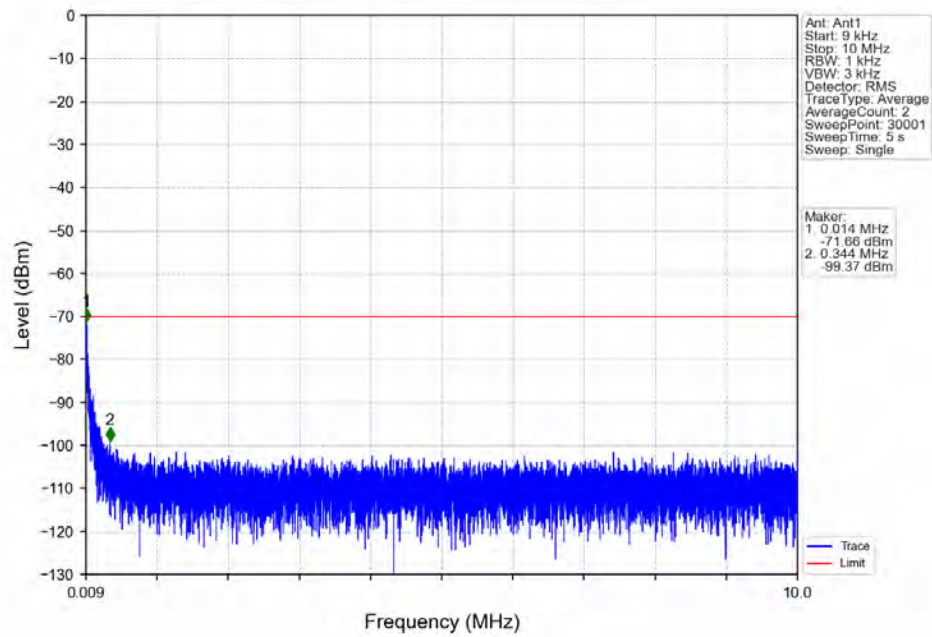
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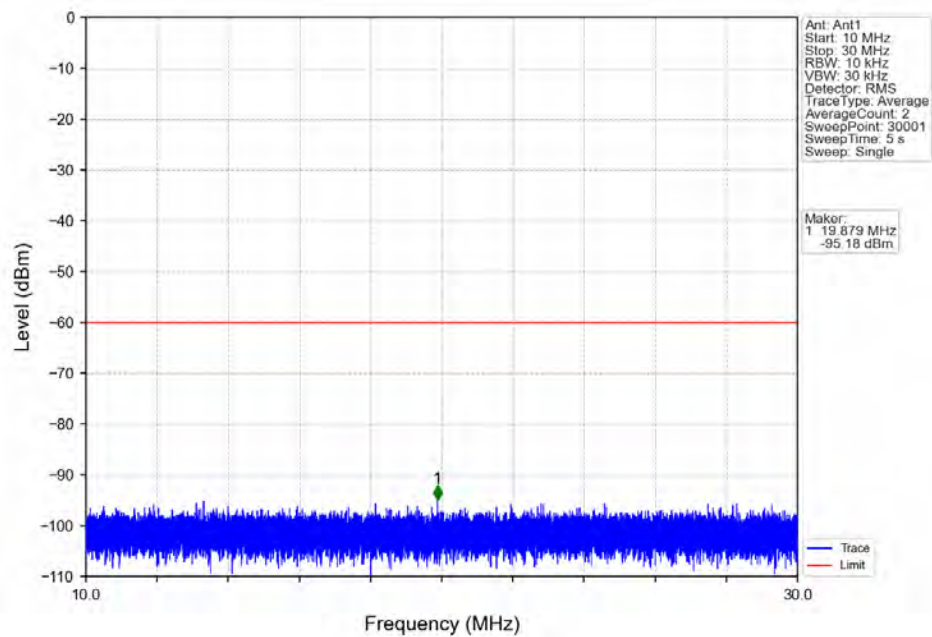
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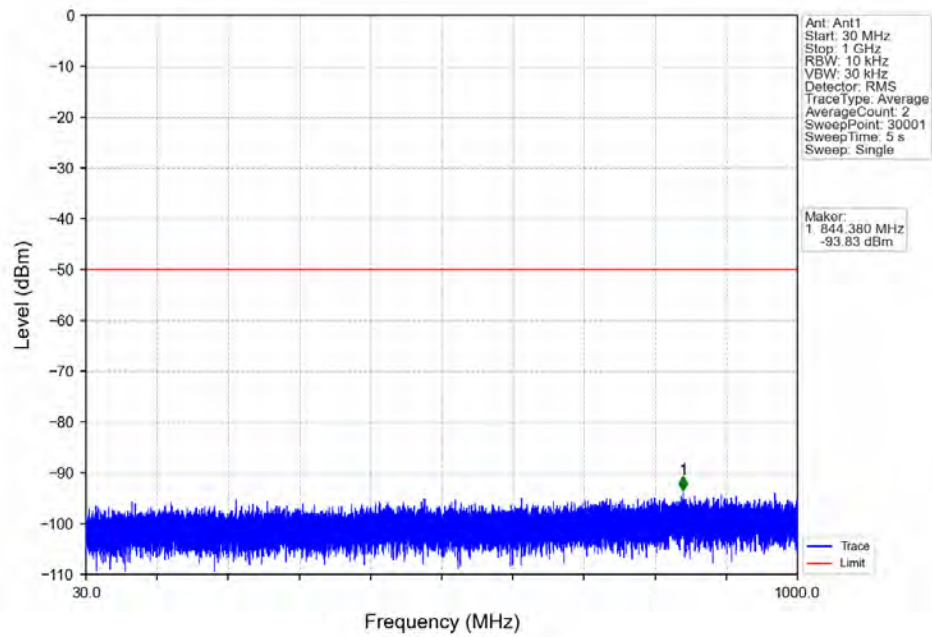
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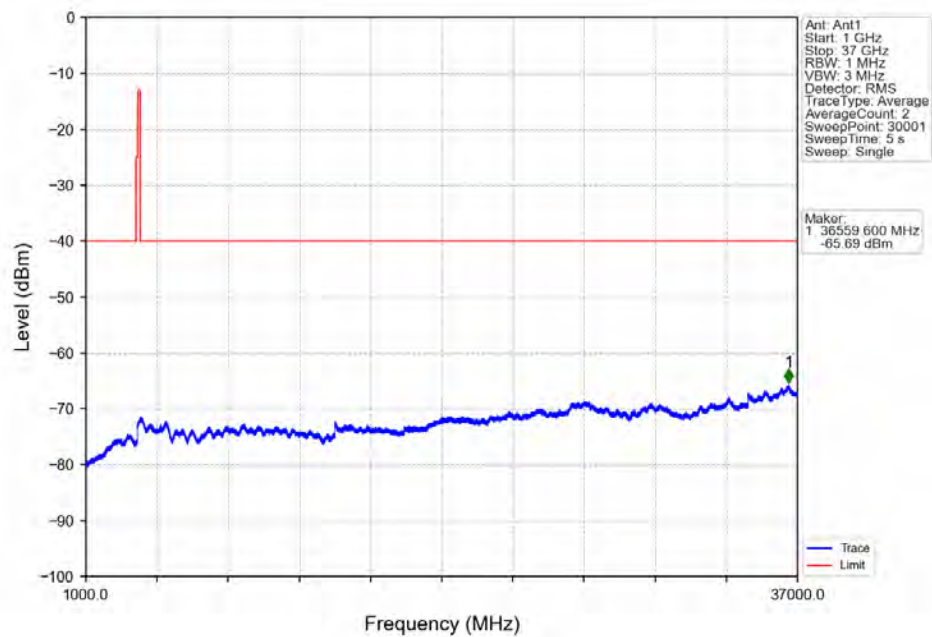
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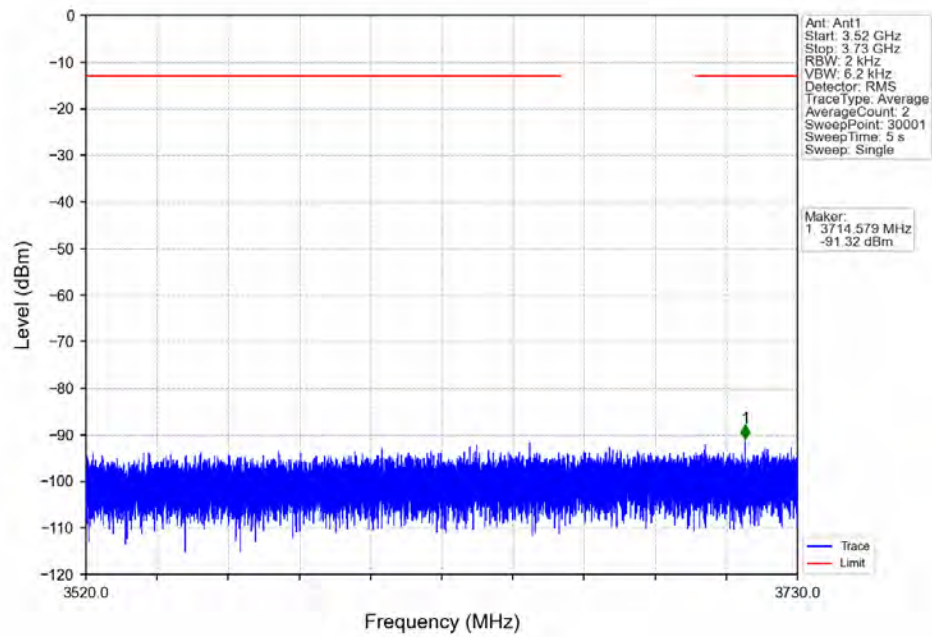
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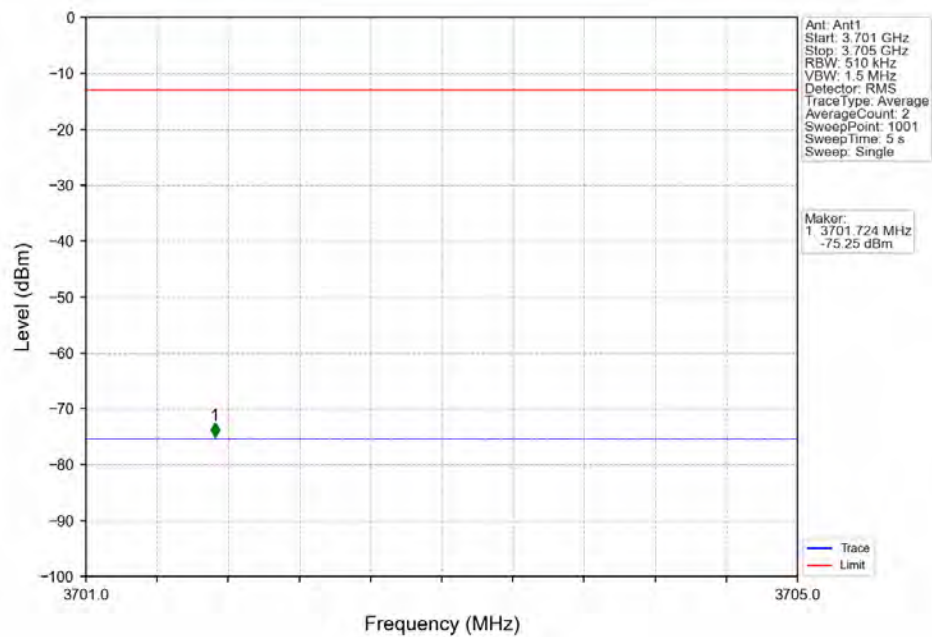
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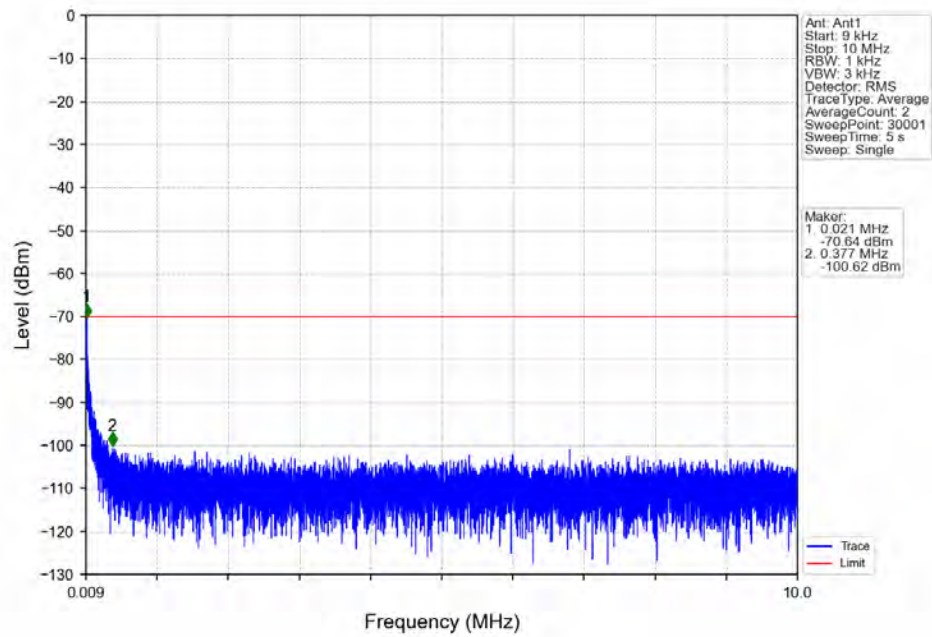
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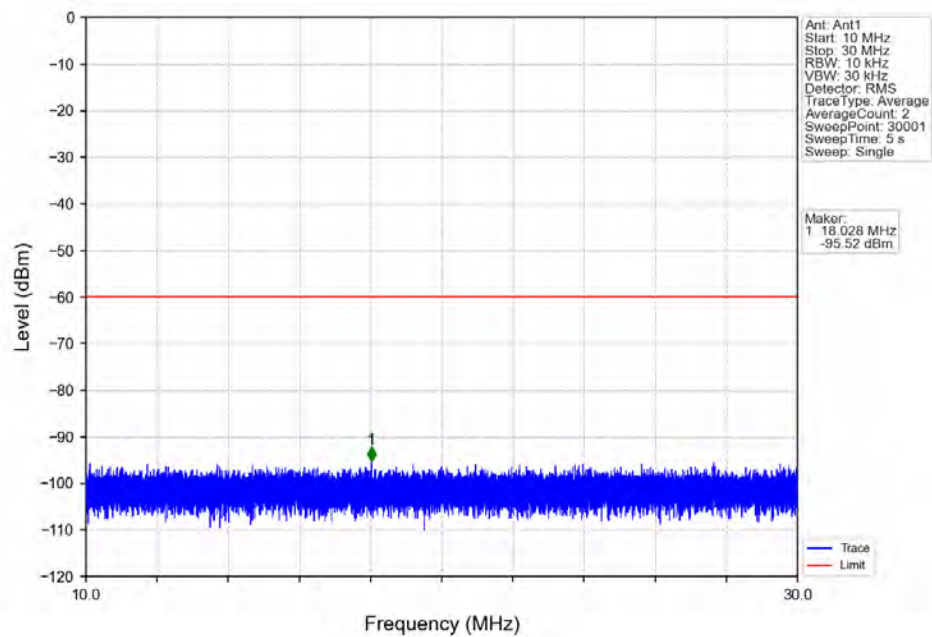
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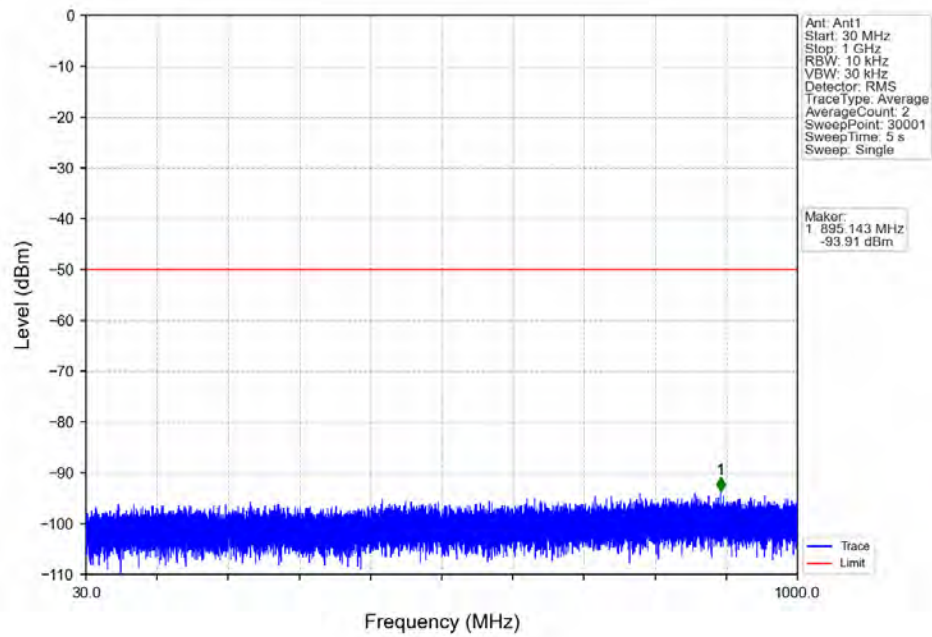
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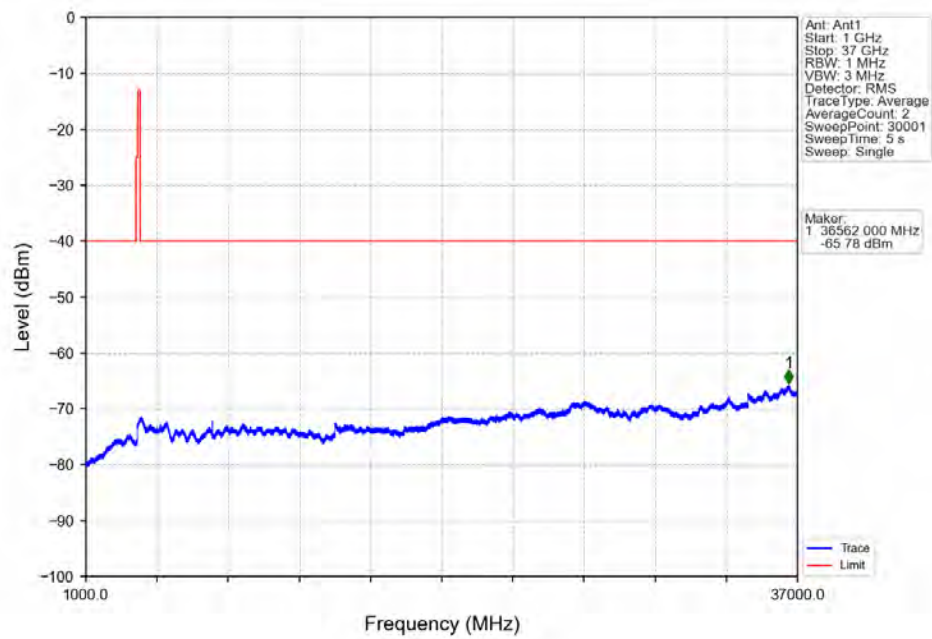
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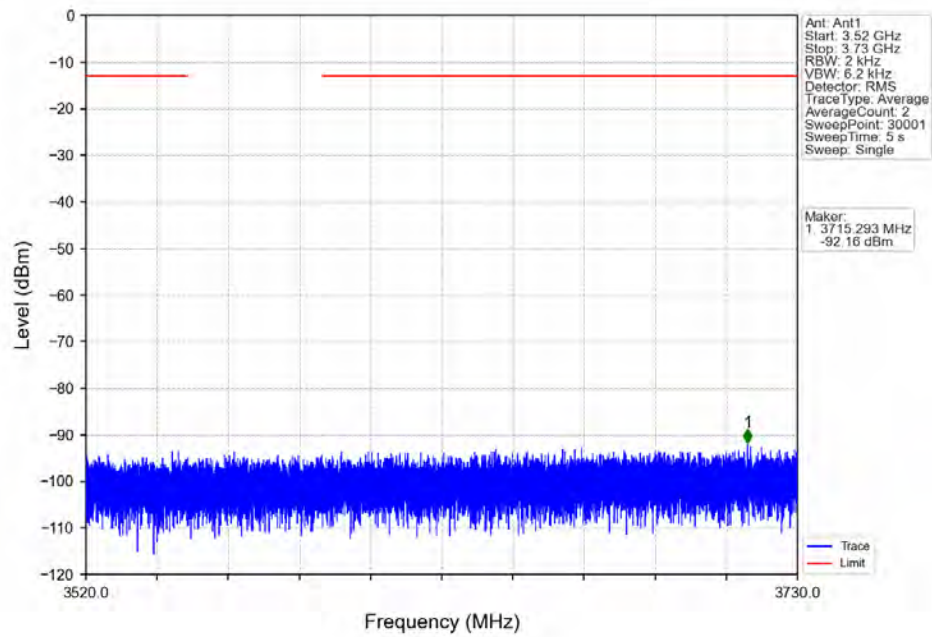
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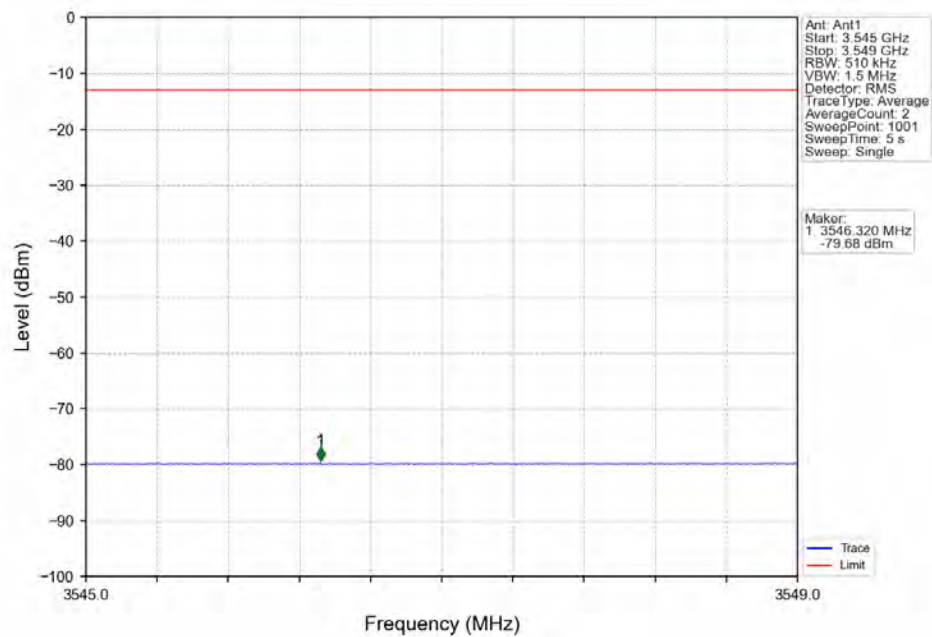
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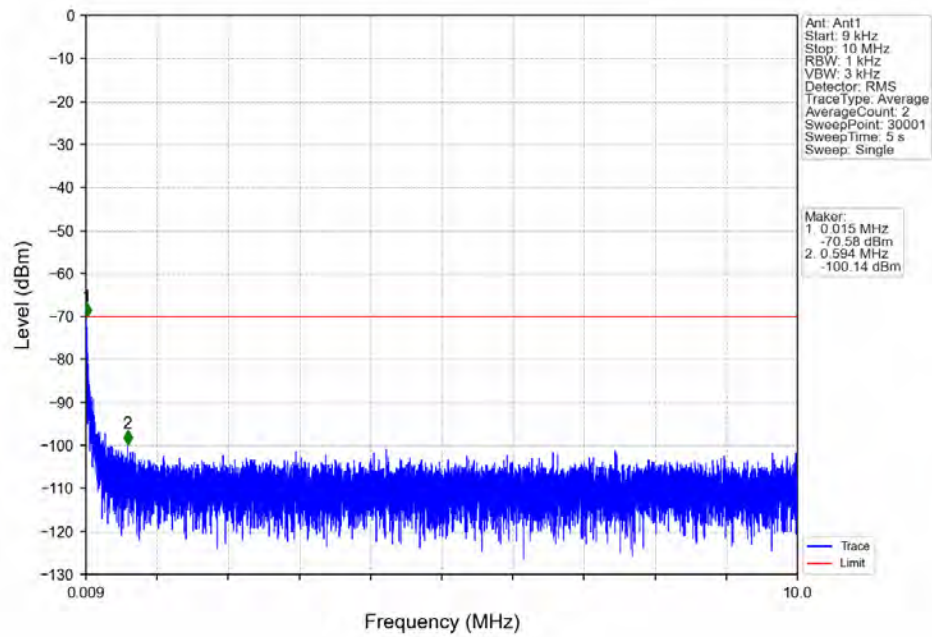
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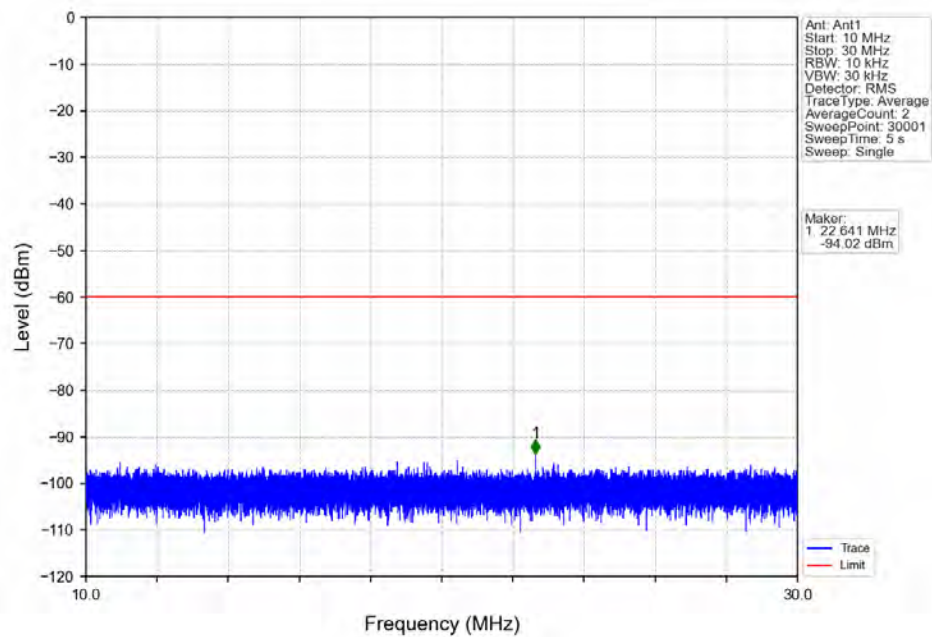
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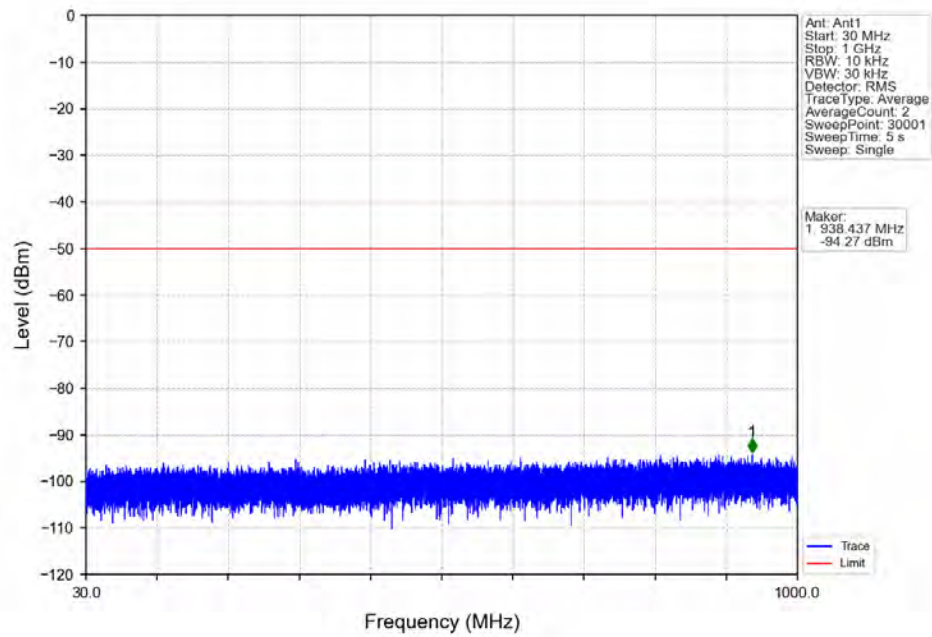
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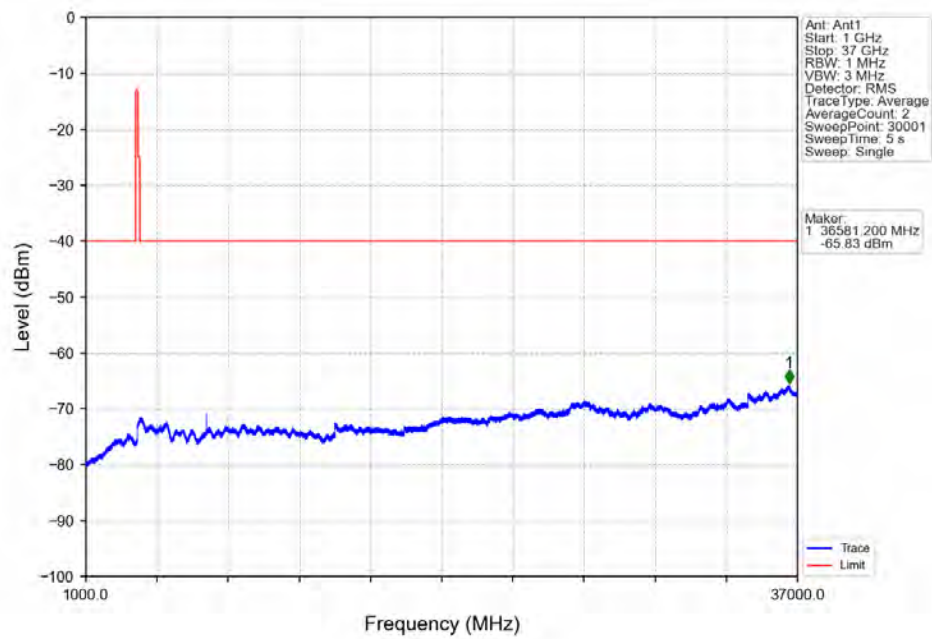
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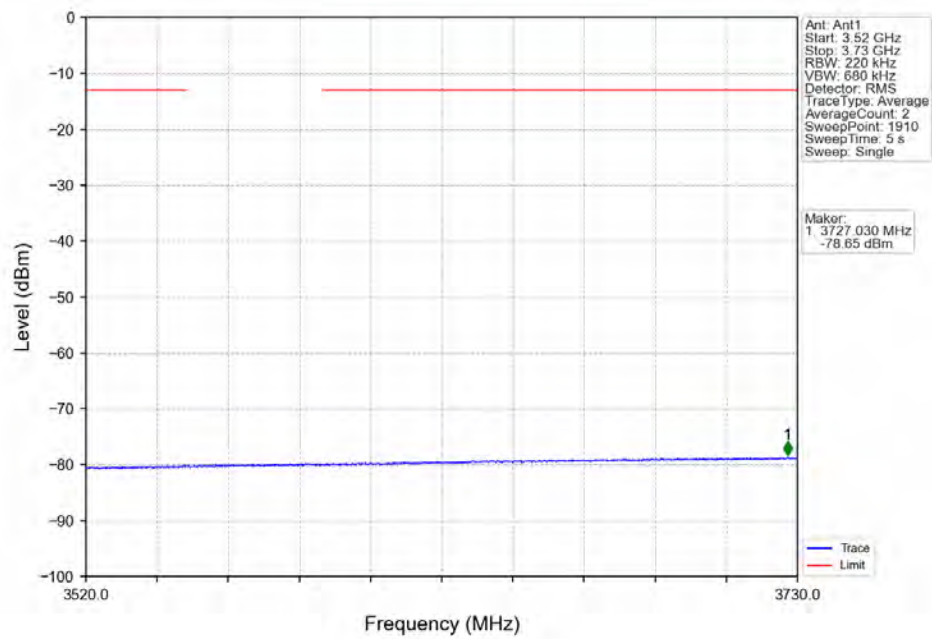
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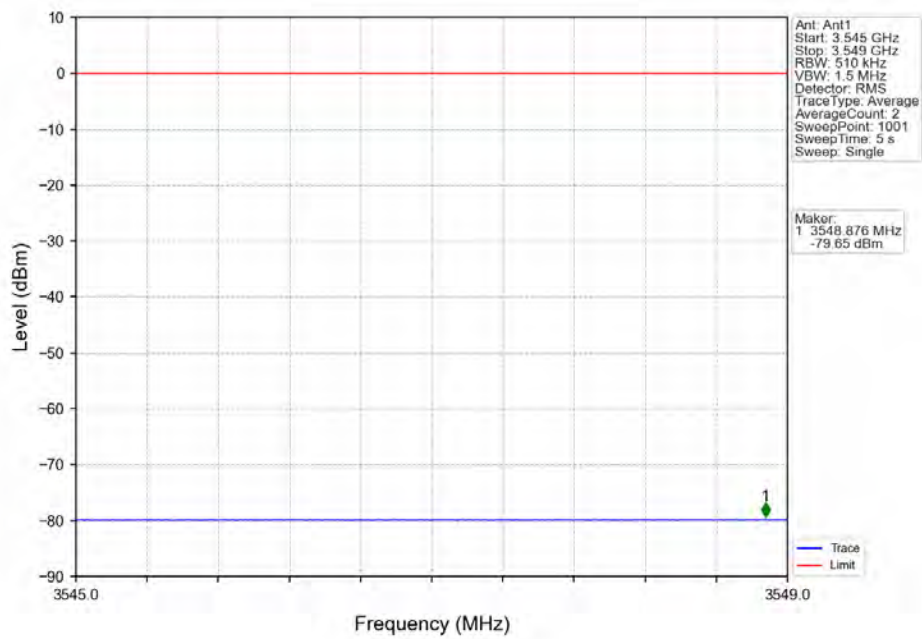
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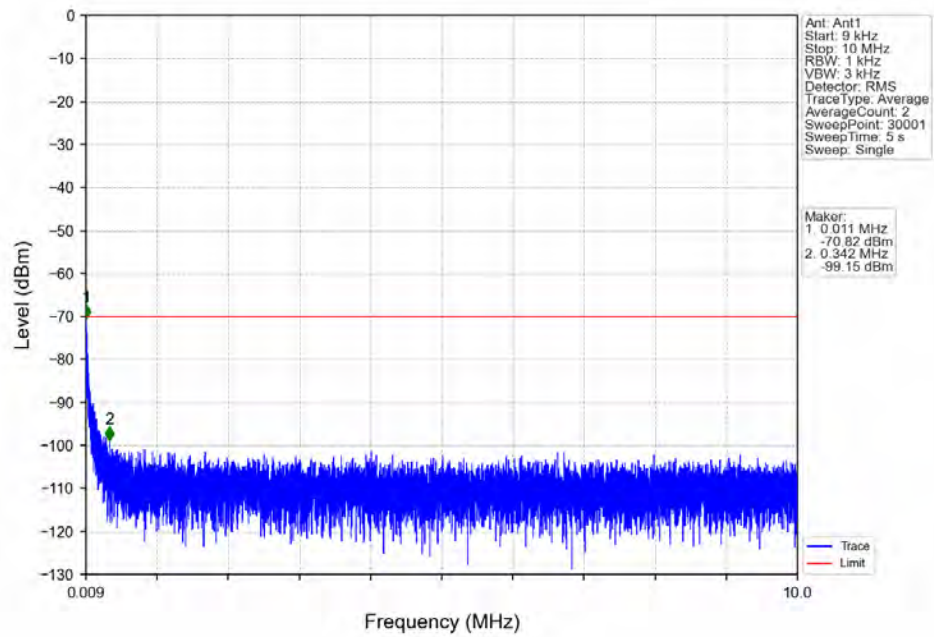
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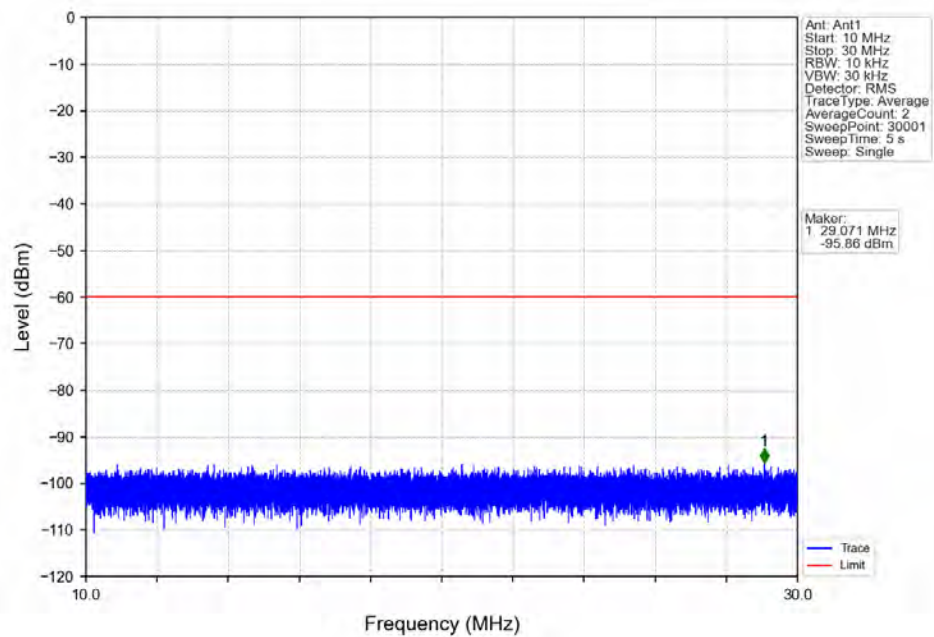
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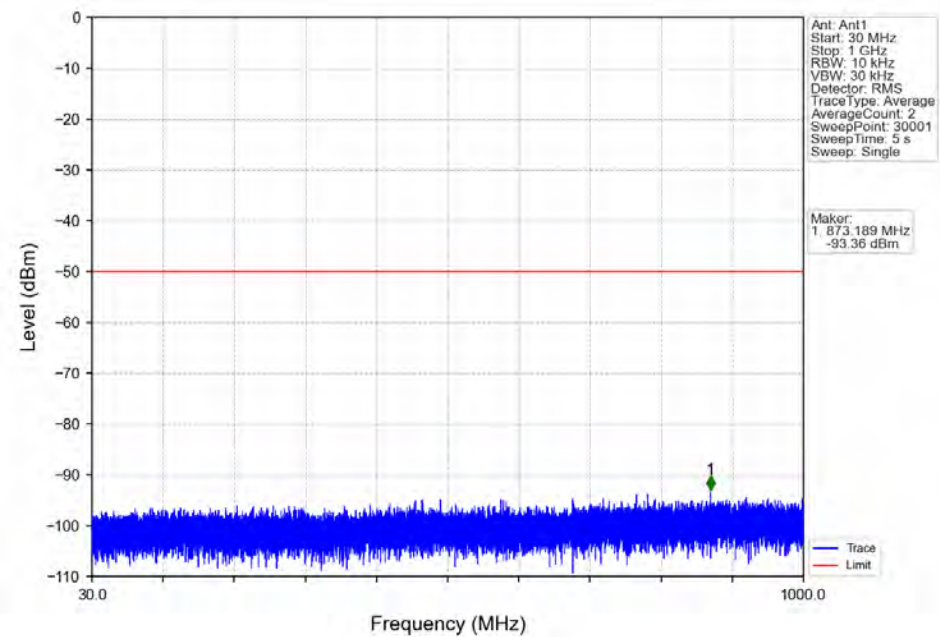
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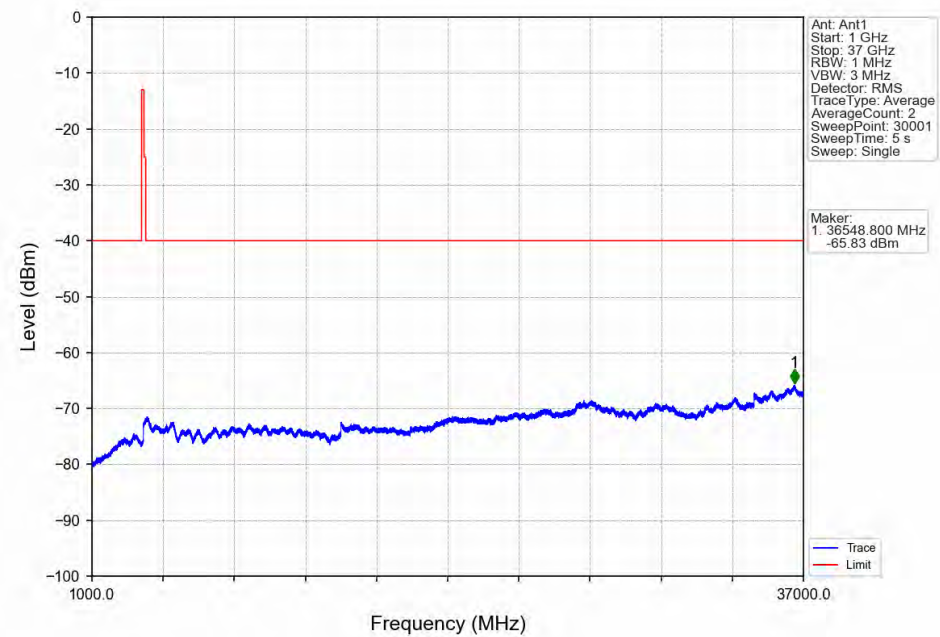
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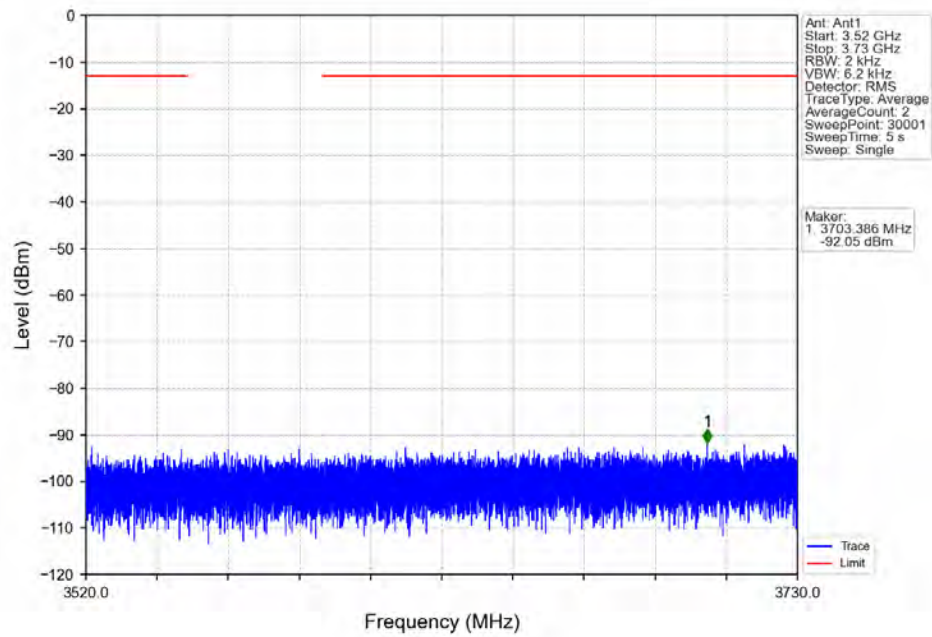
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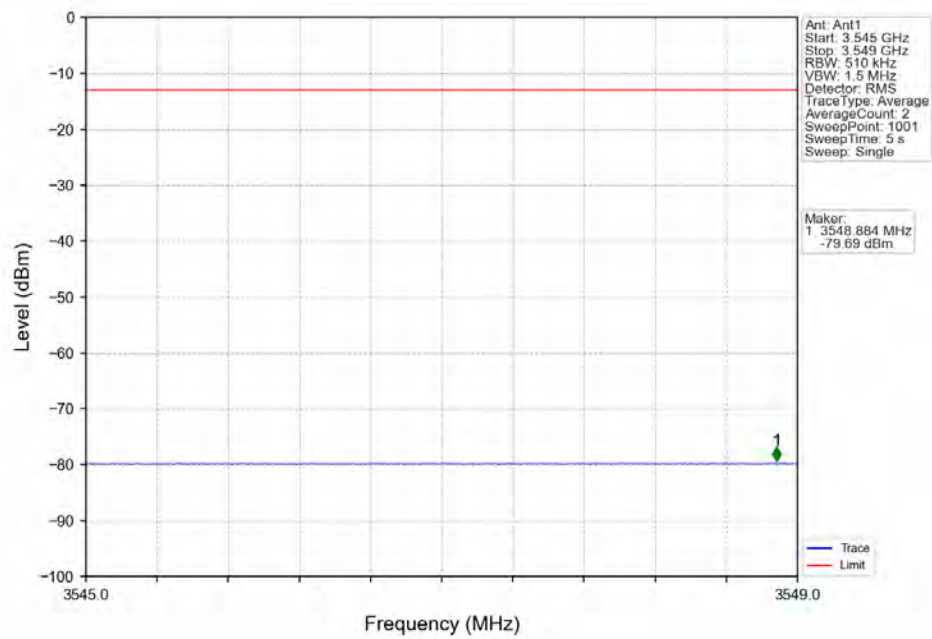
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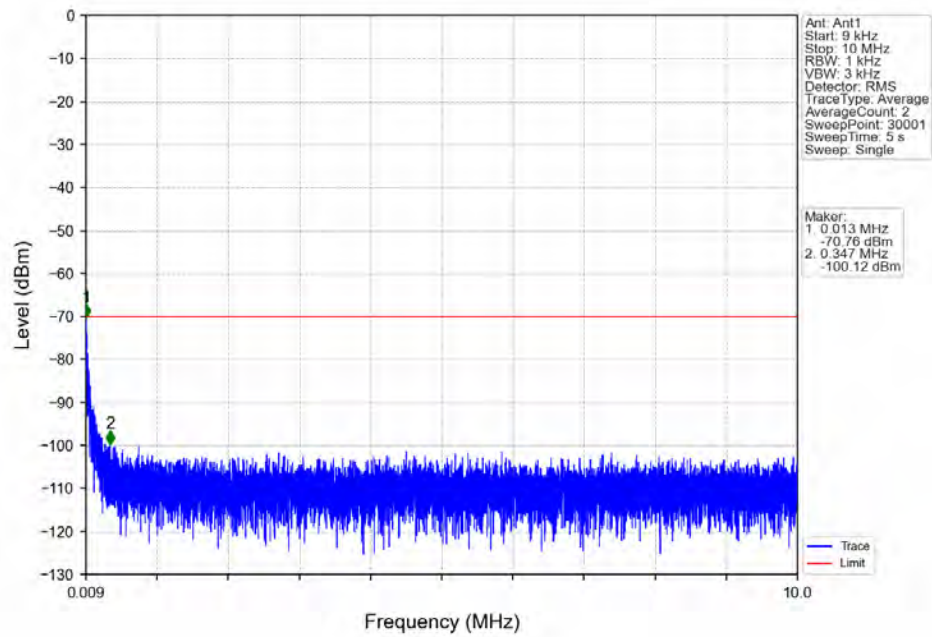
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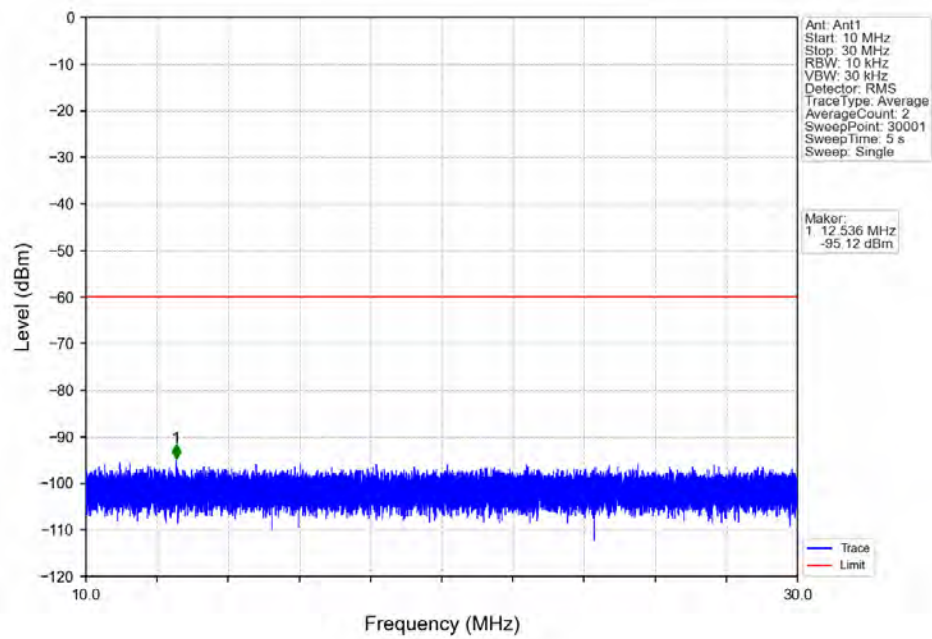
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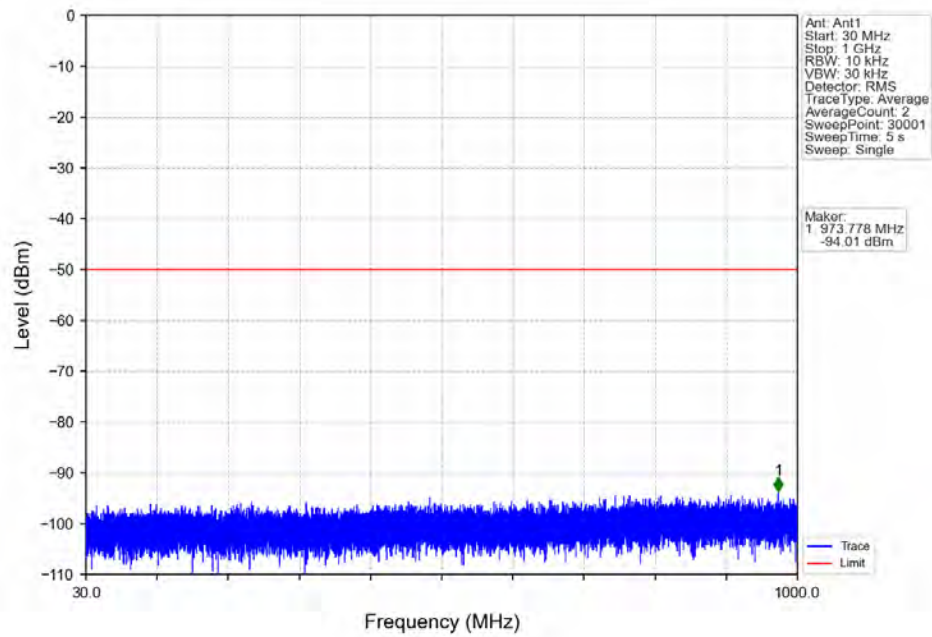
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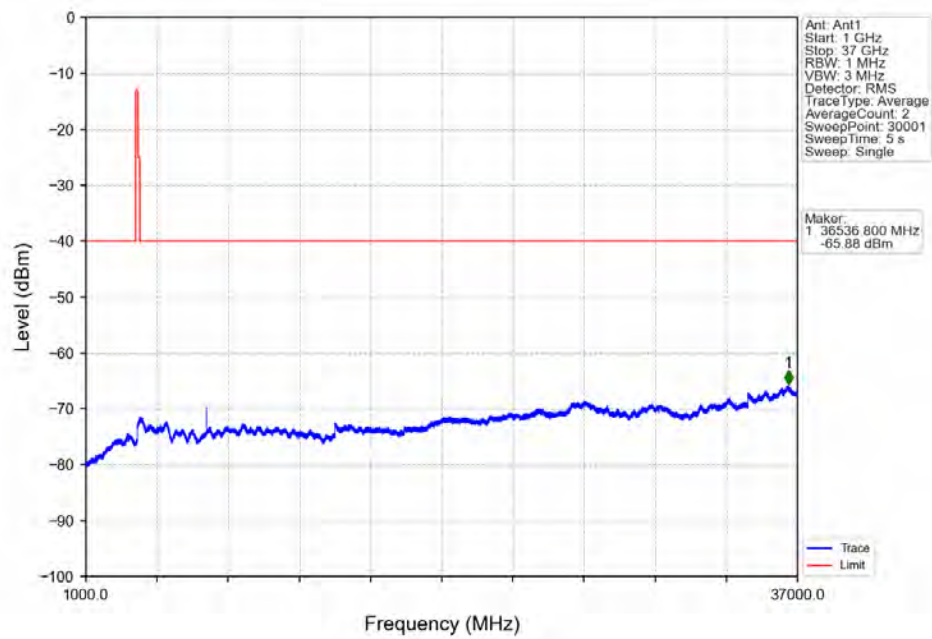
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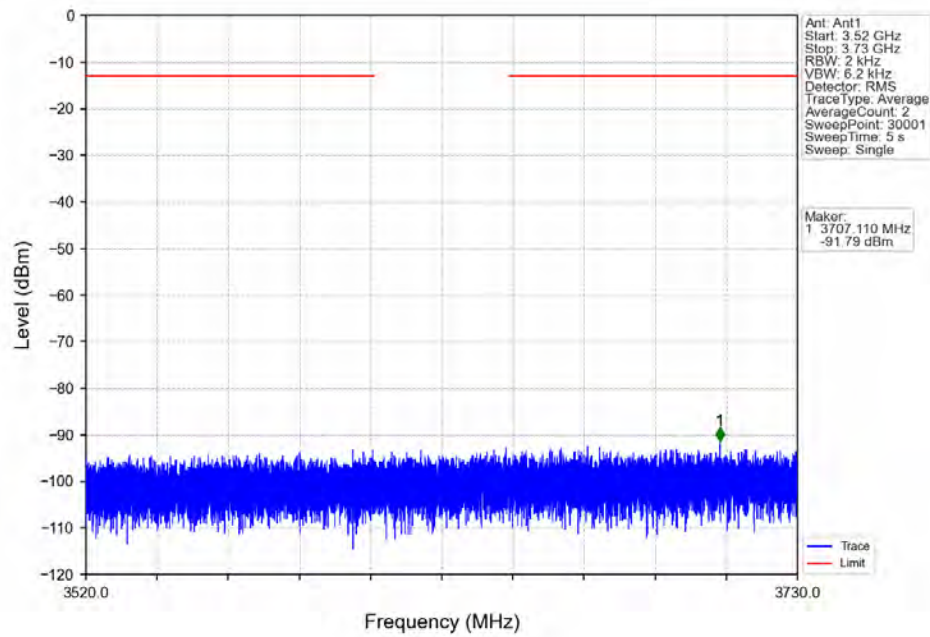
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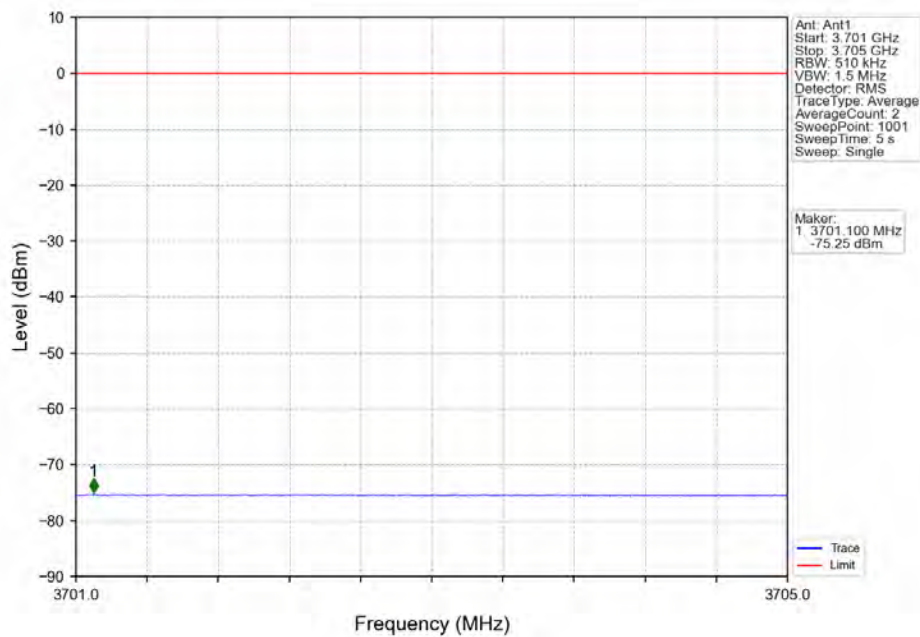
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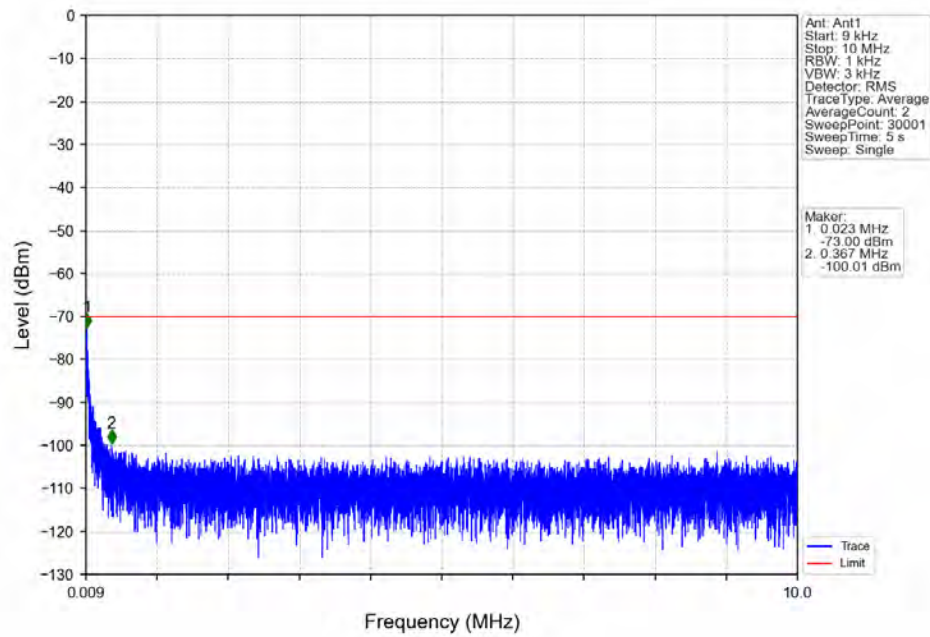
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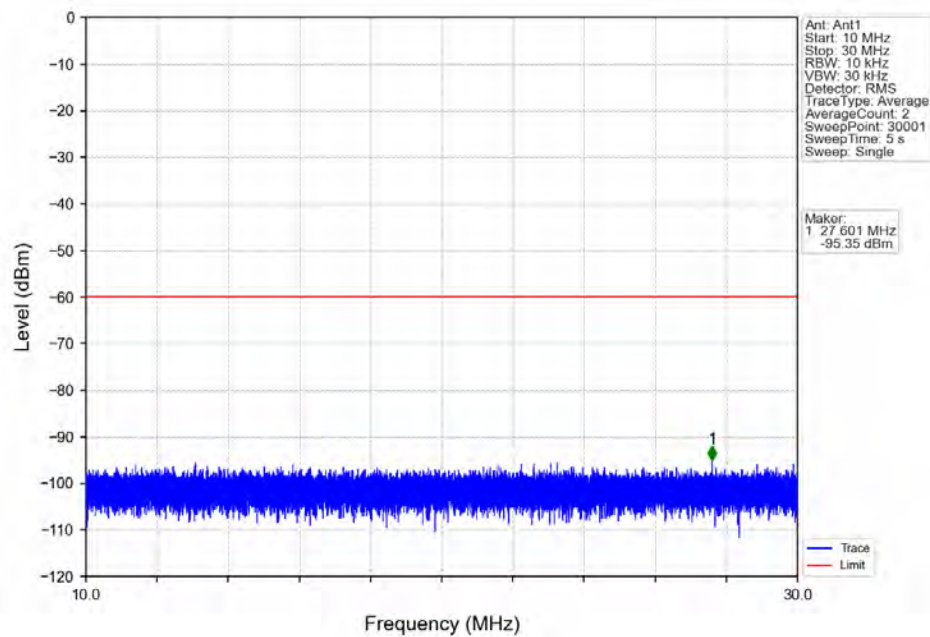
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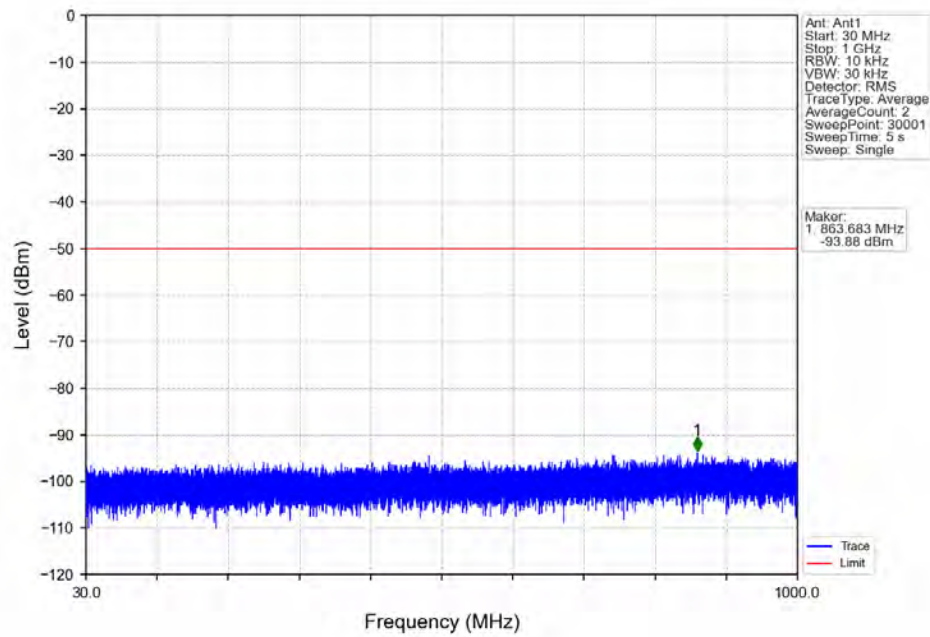
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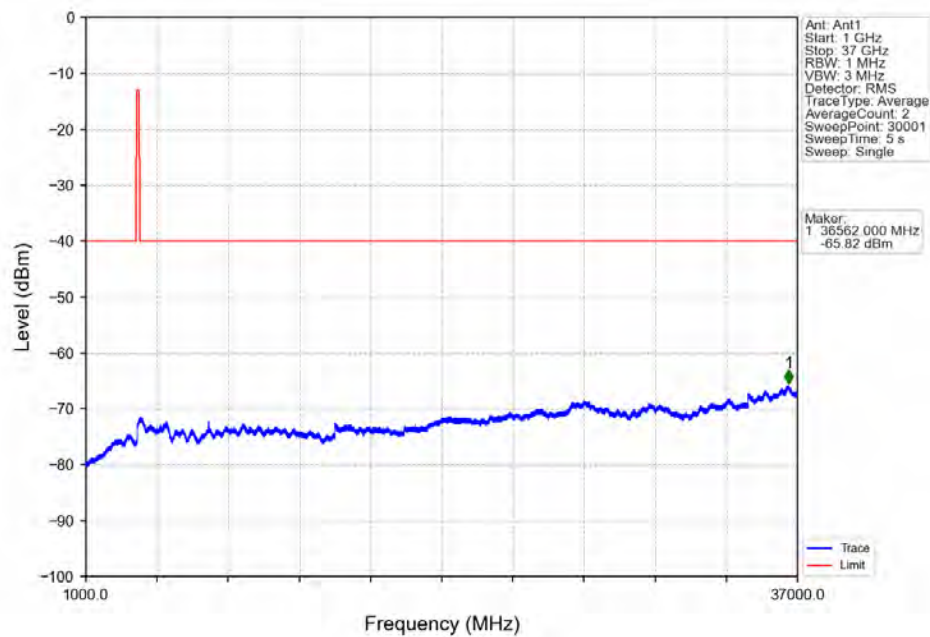
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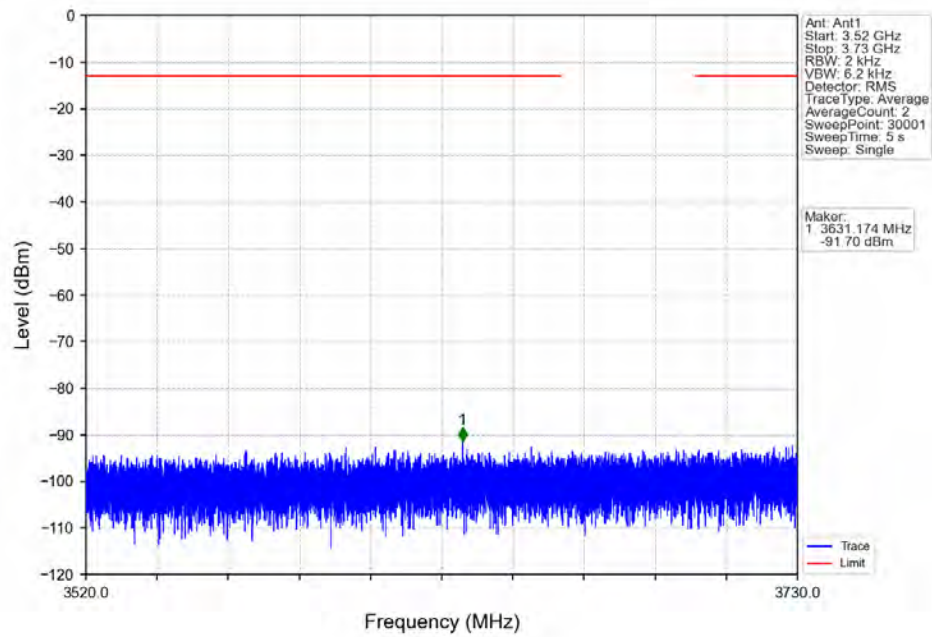
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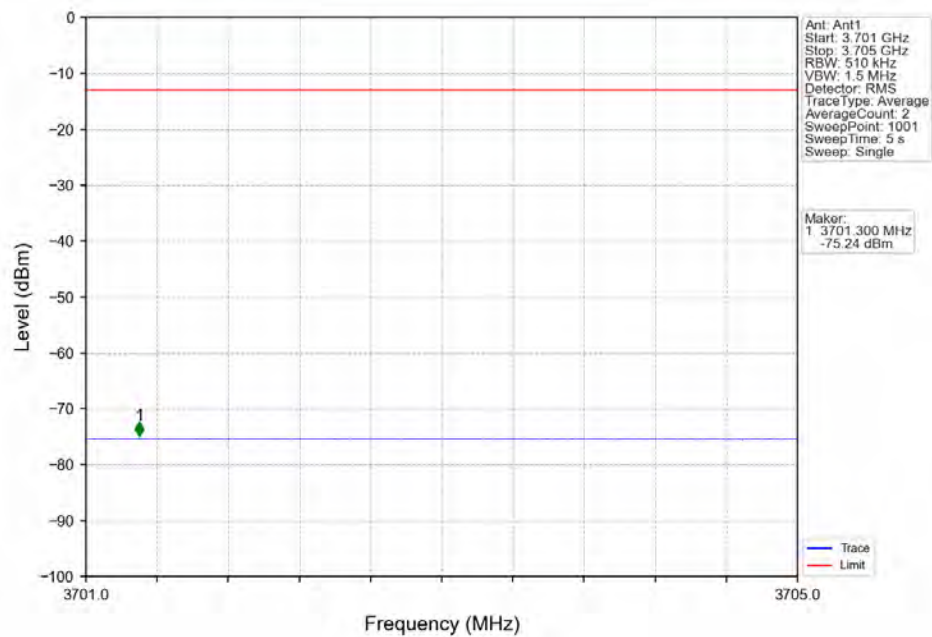
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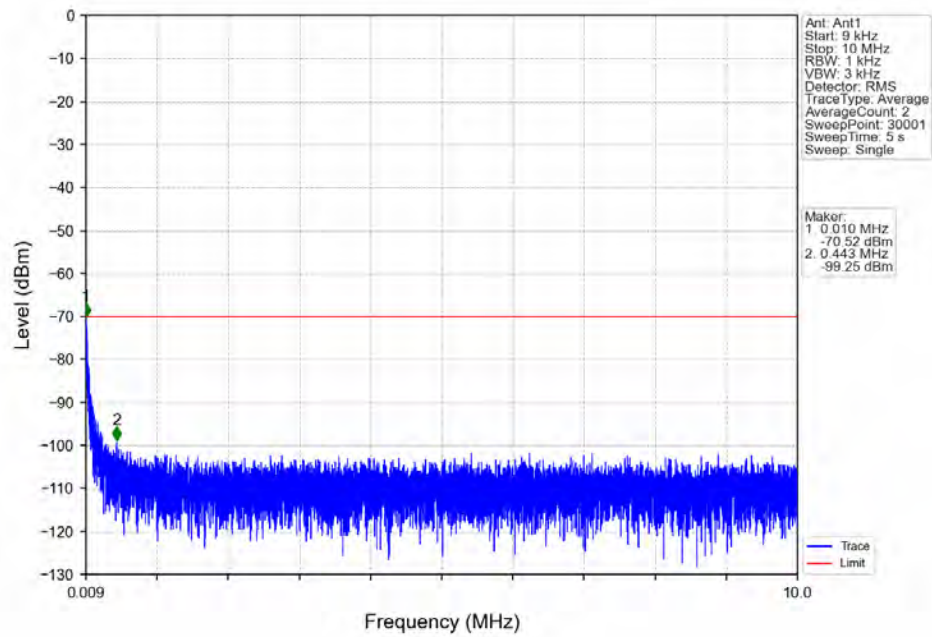
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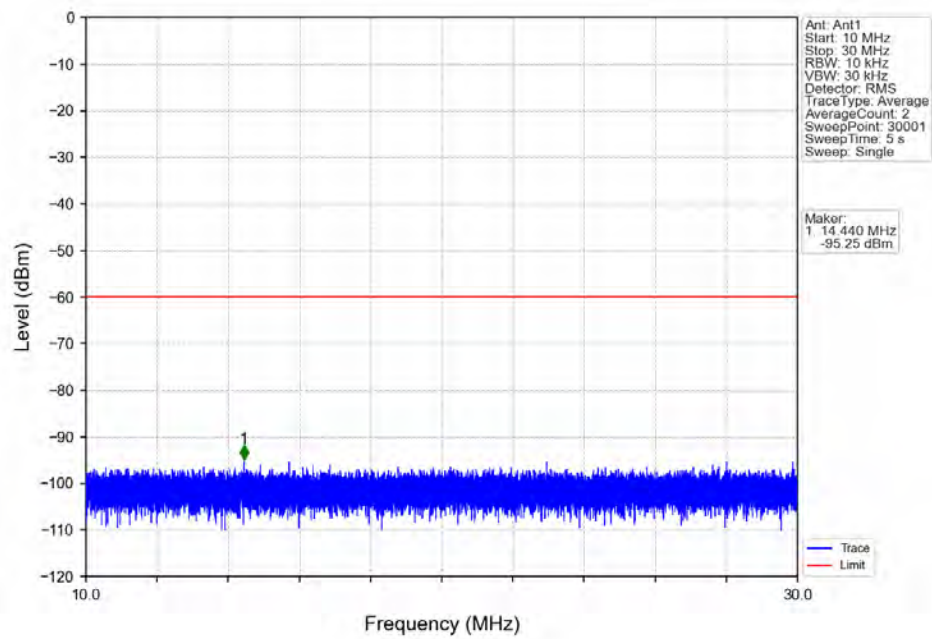
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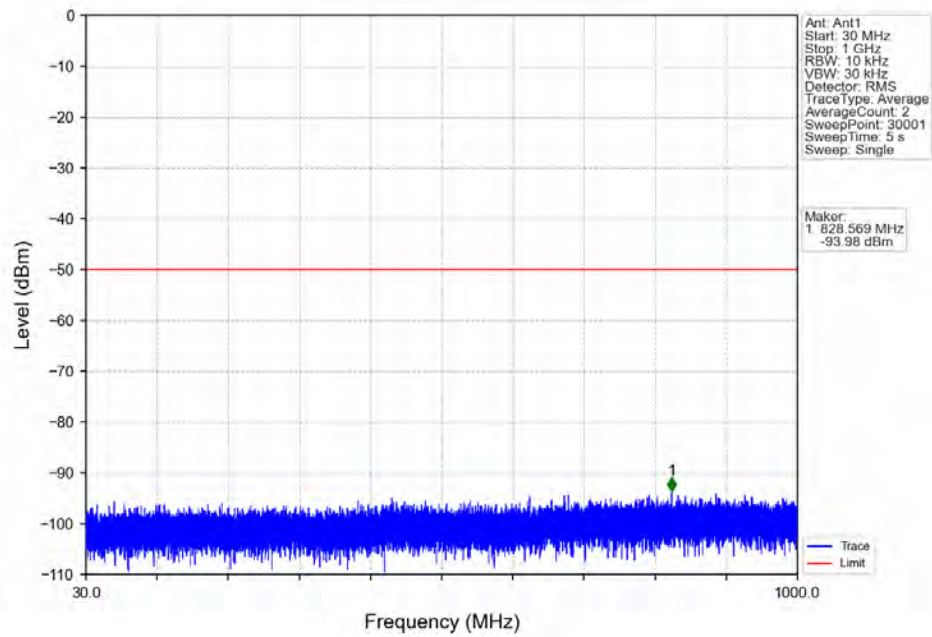
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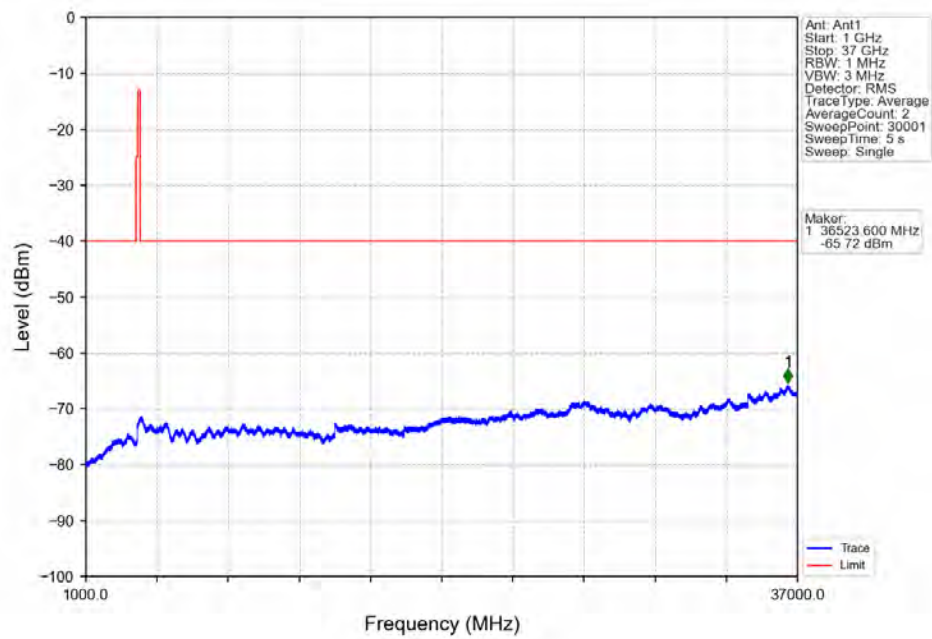
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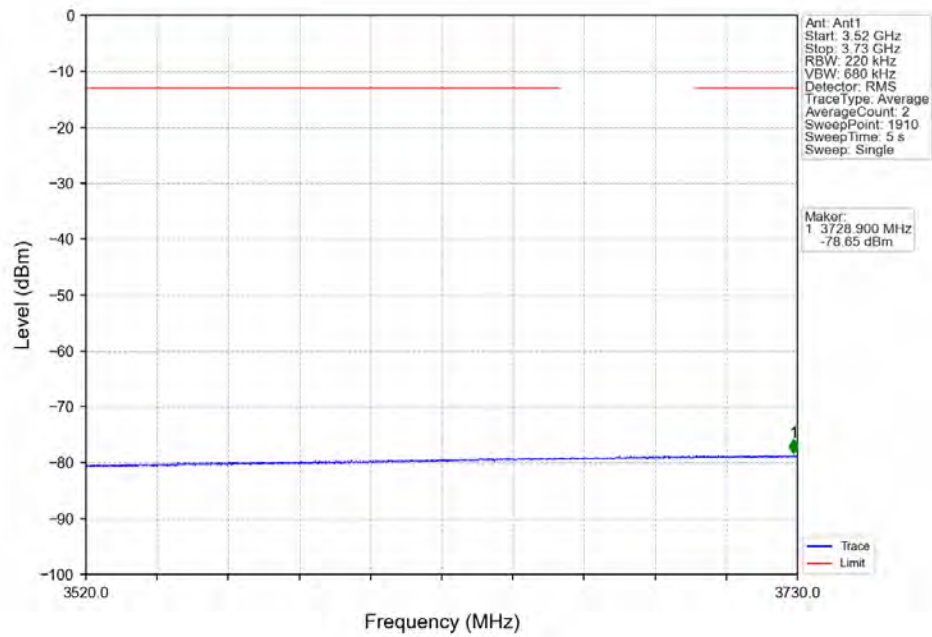
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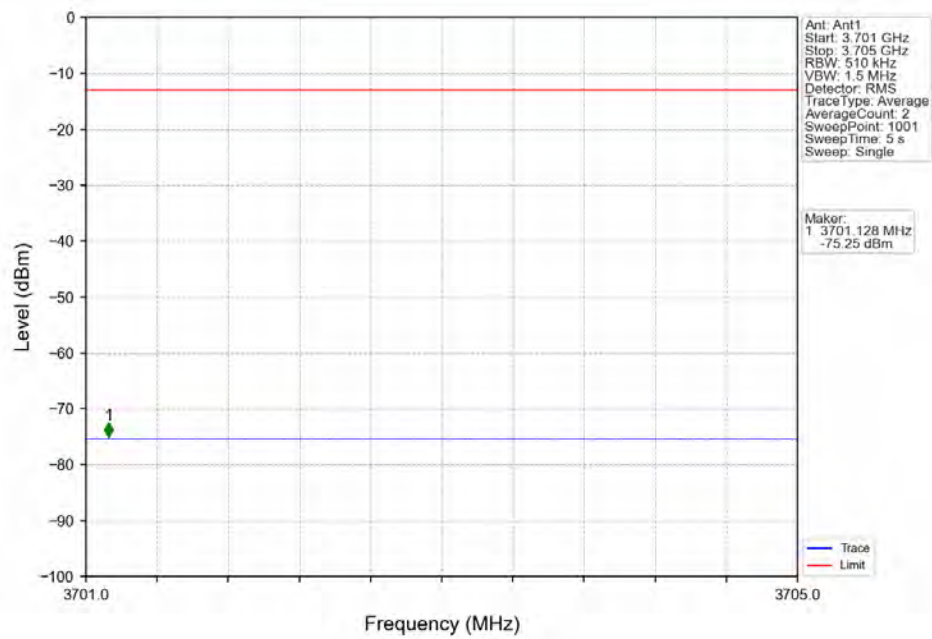
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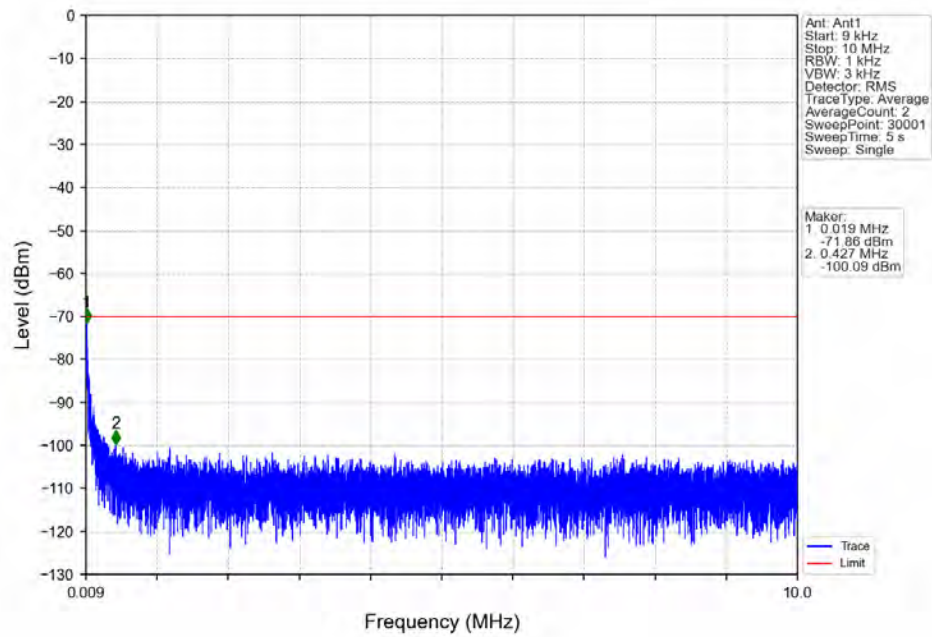
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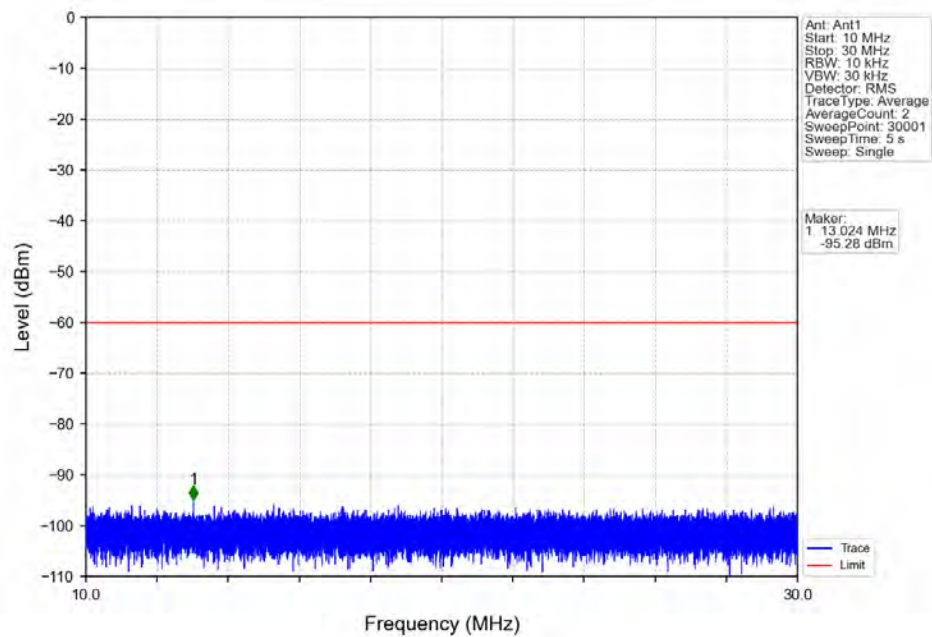
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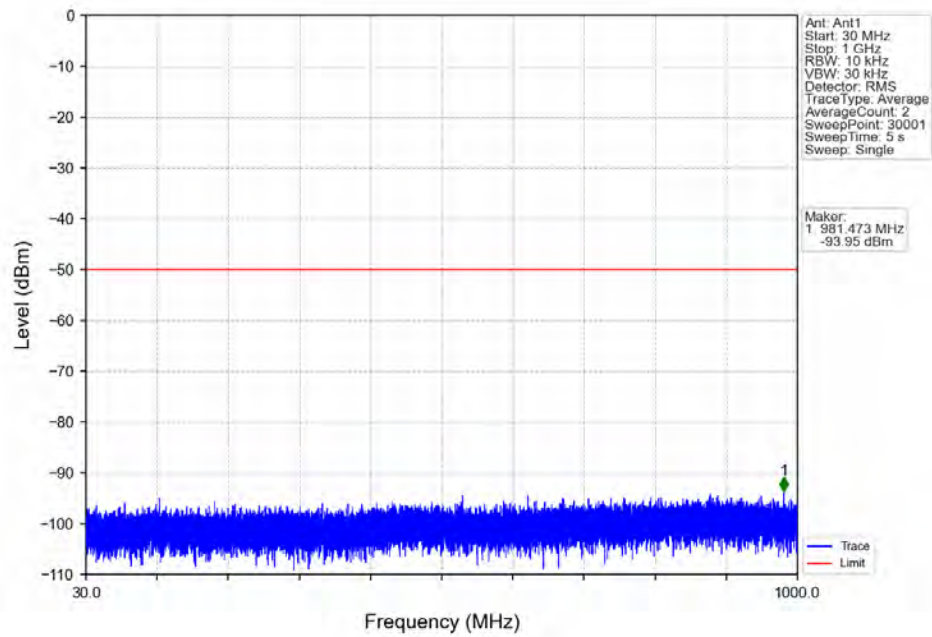
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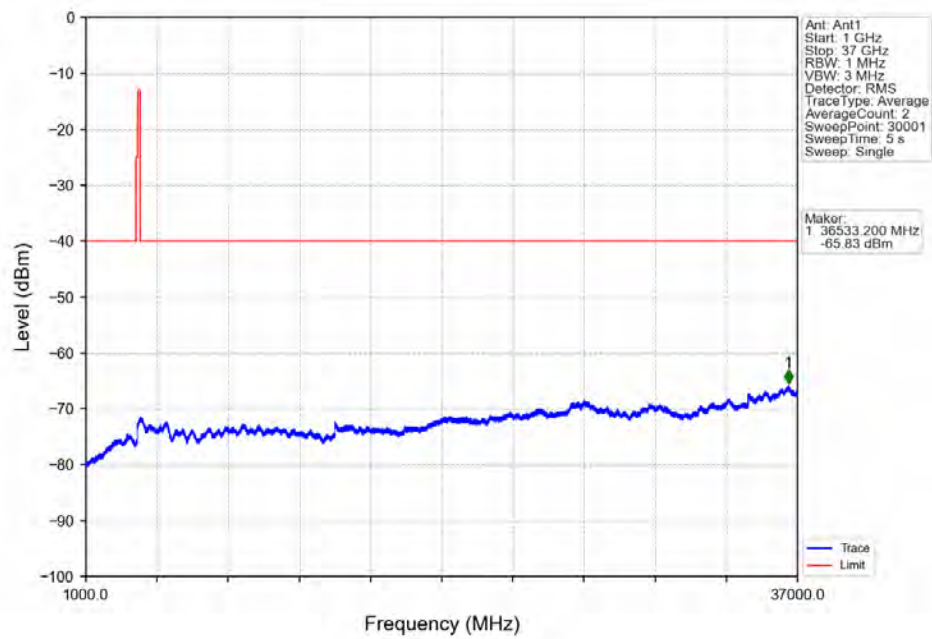
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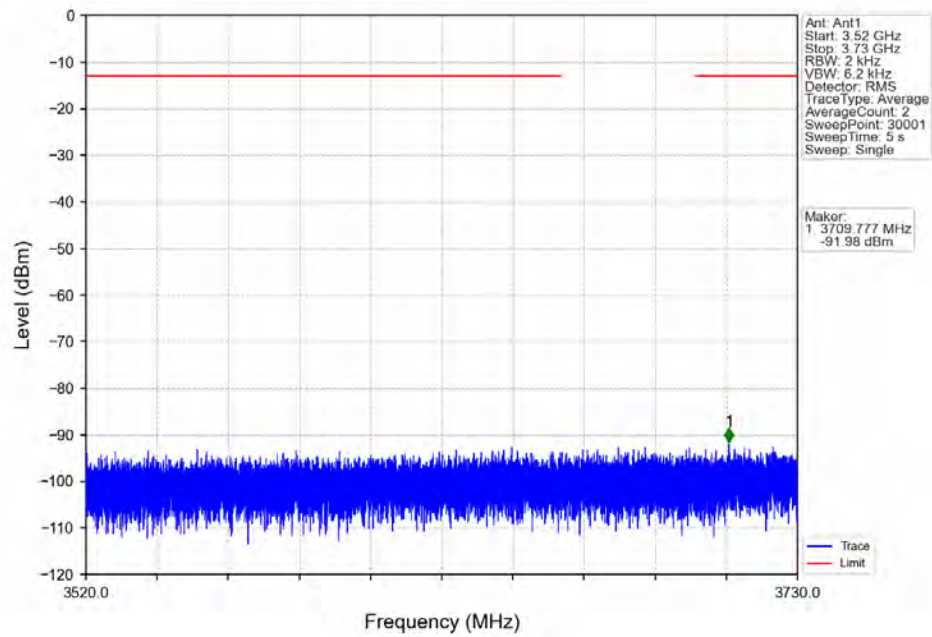
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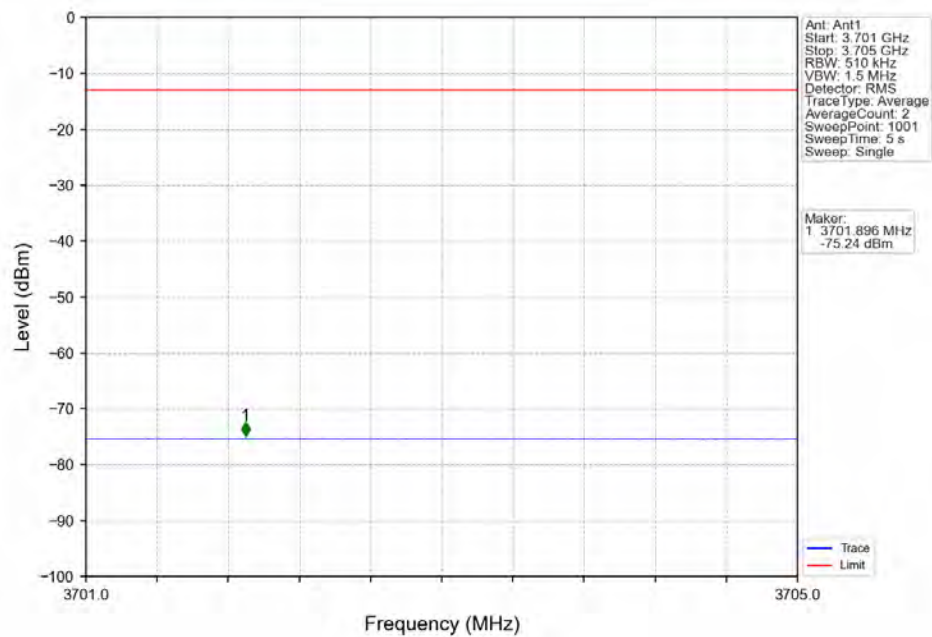
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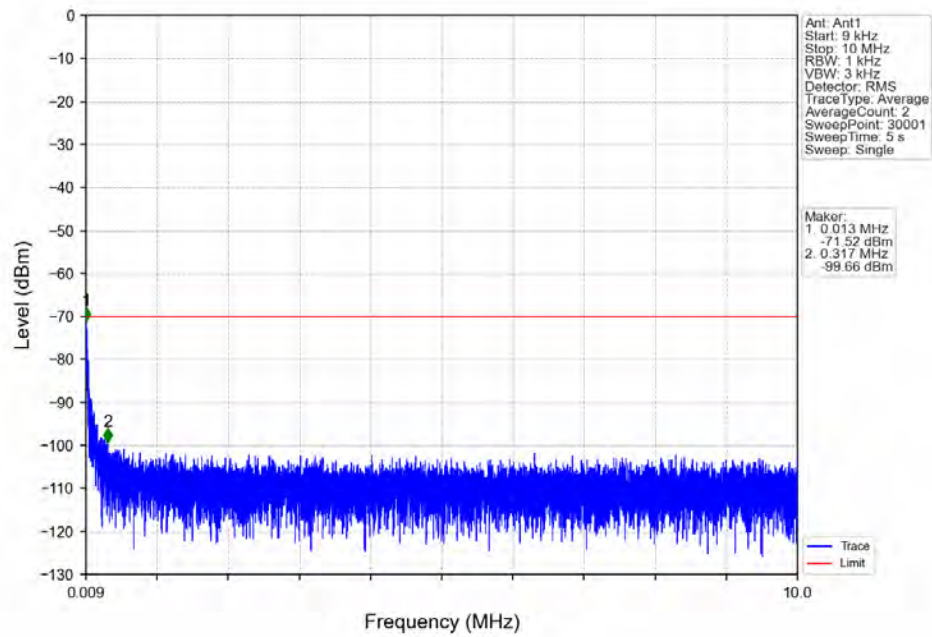
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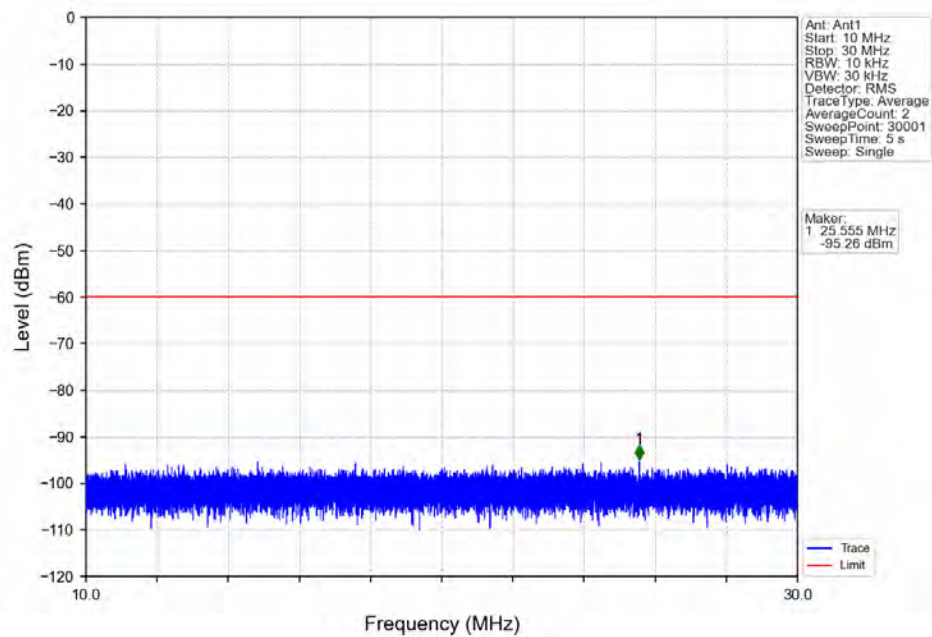
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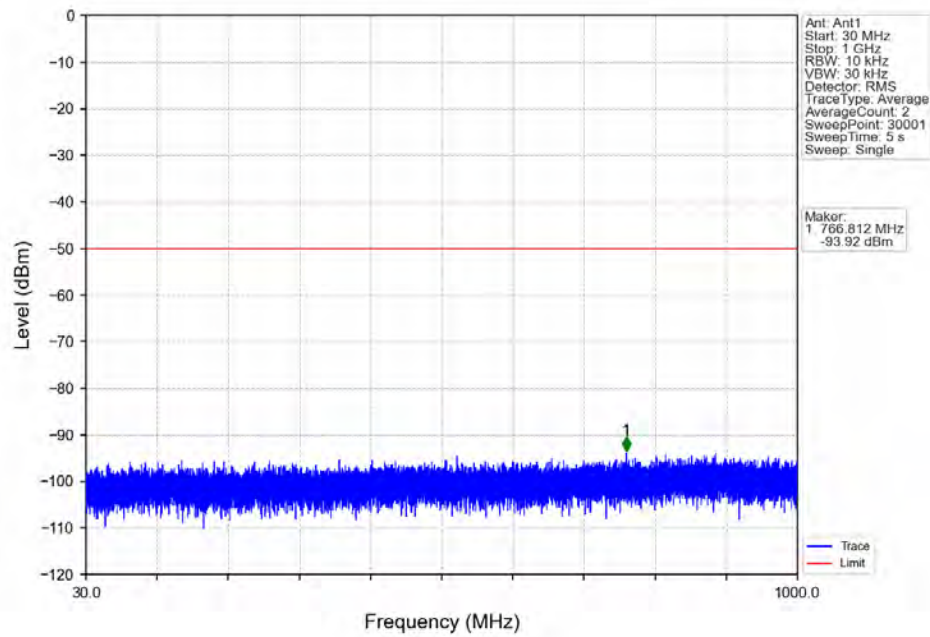
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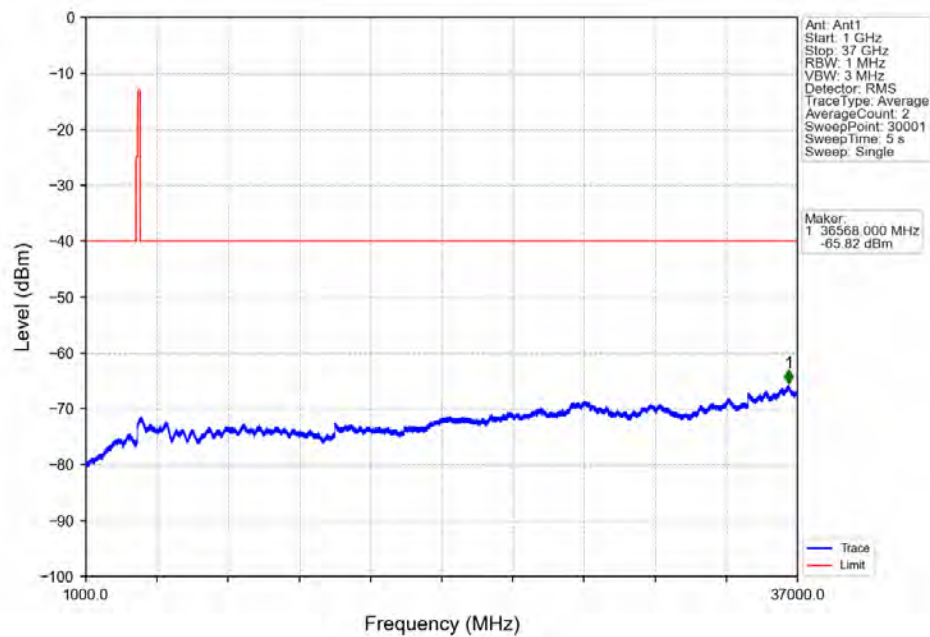
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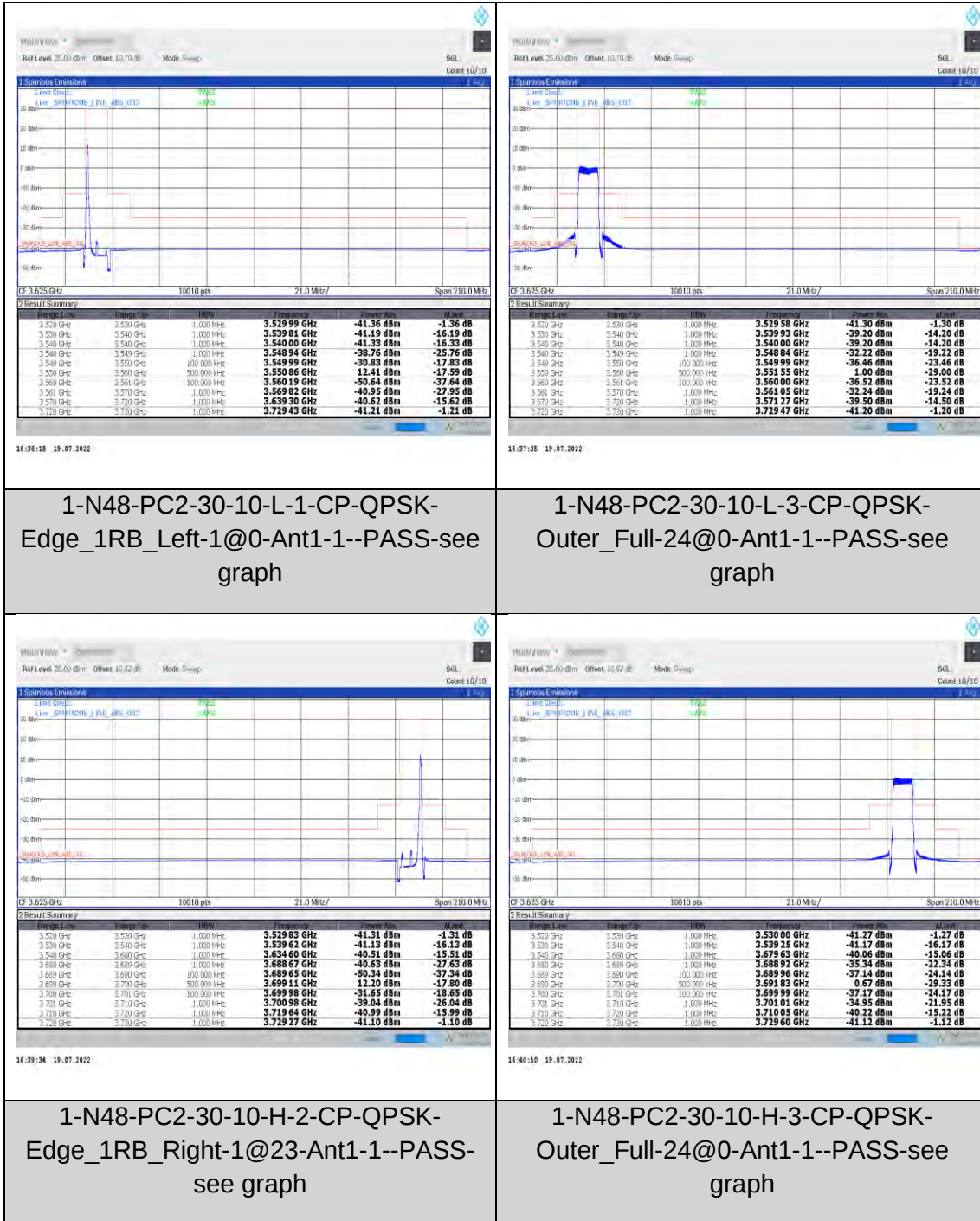


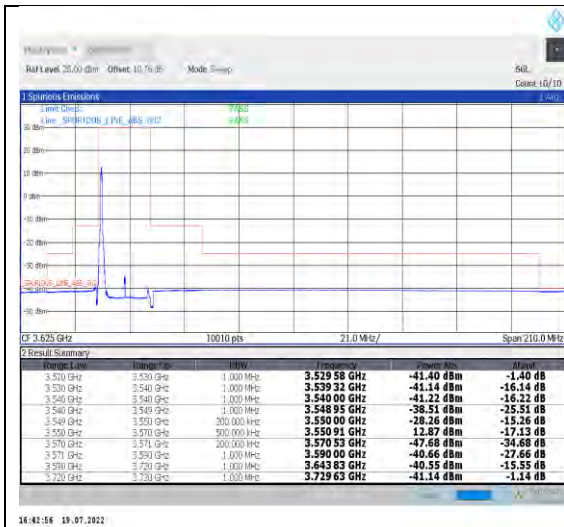
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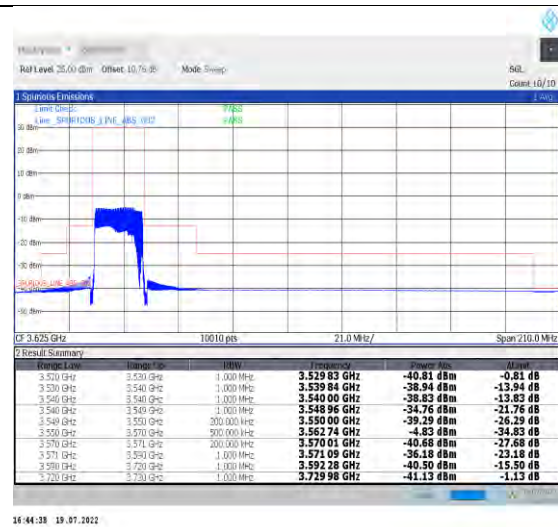
Conducted Spurious Emission for MIMO - NR

Band Edge for MIMO Test Graphs

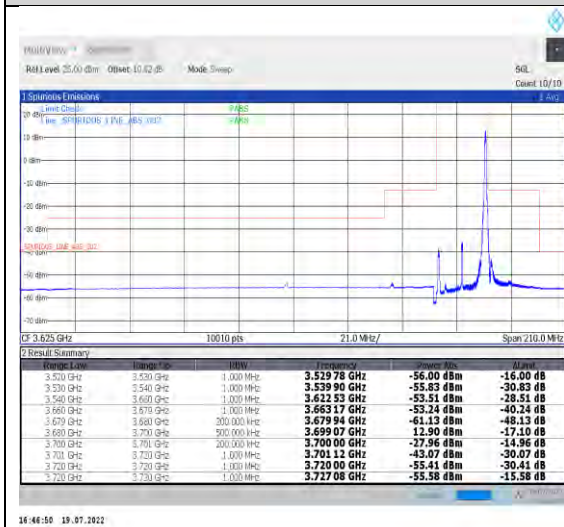




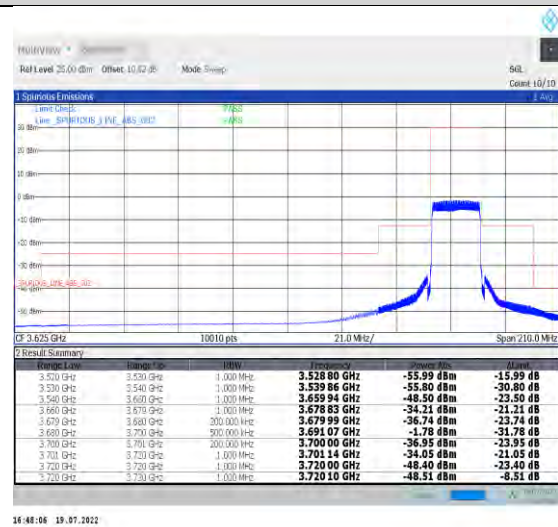
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Edge_1RB_Left-1@0-Ant1-1--PASS-see
graph



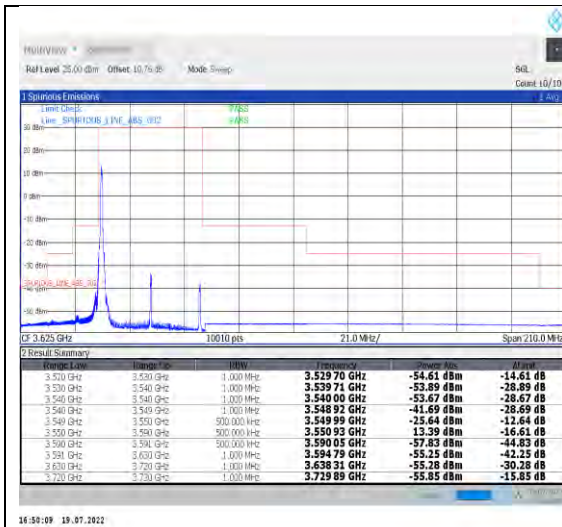
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Outer_Full-51@0-Ant1-1--PASS-see
graph



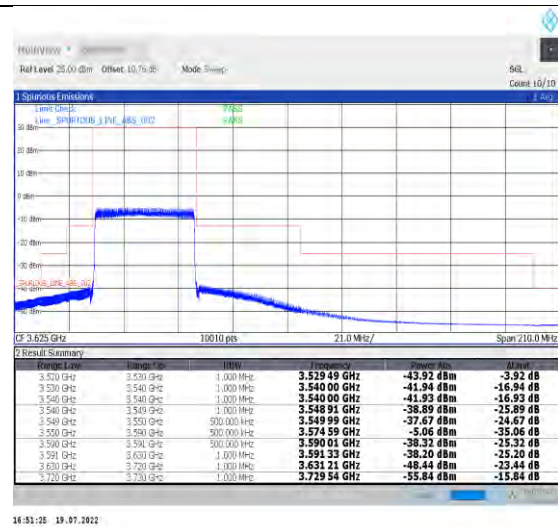
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see graph



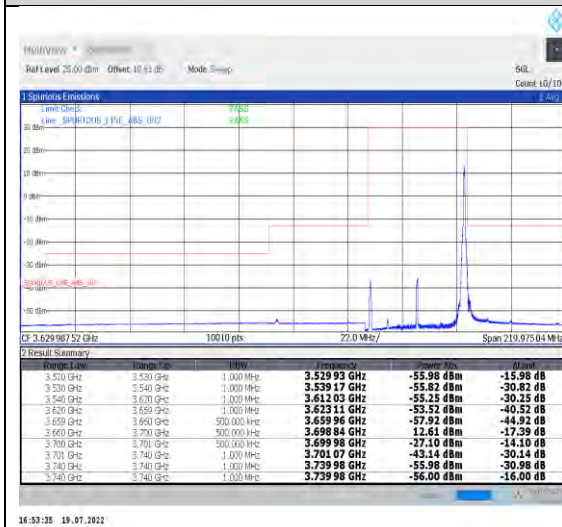
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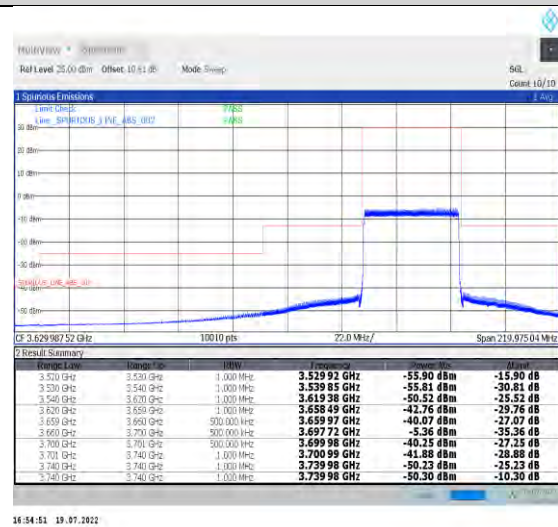
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1-N48-PC2-30-40-L-3-CP-QPSK-Outer_Full-106@0-Ant1-1--PASS-see graph

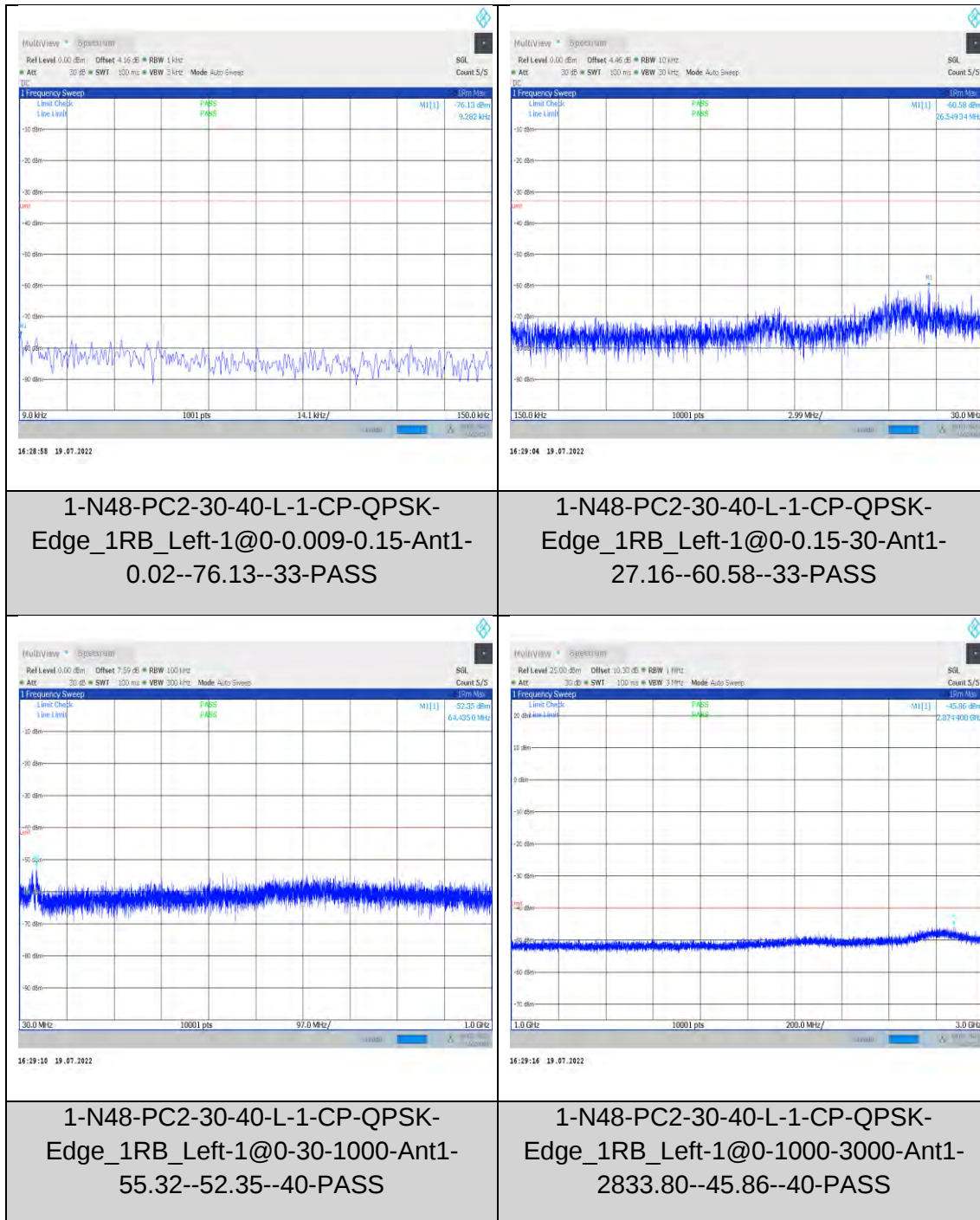


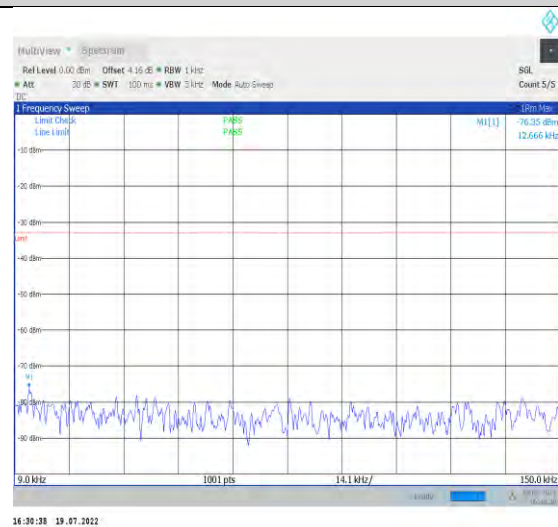
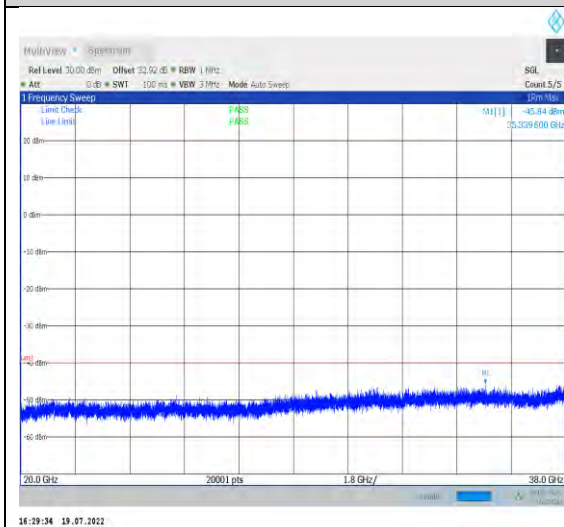
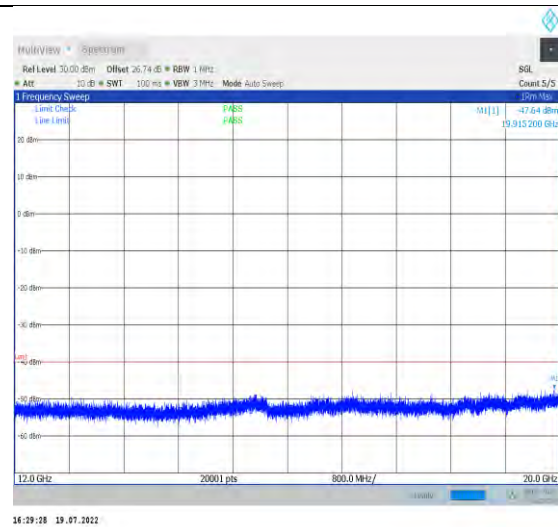
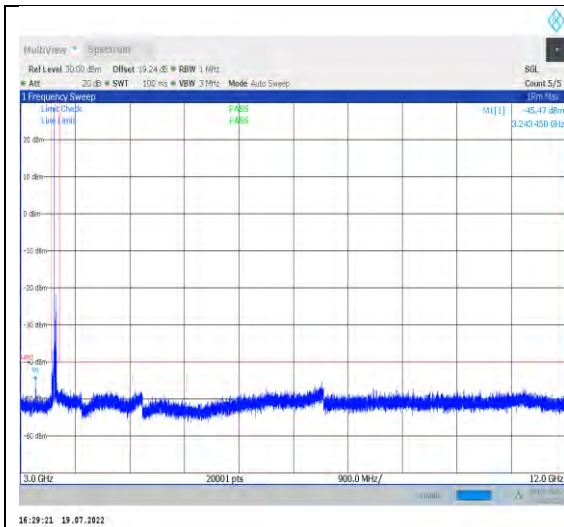
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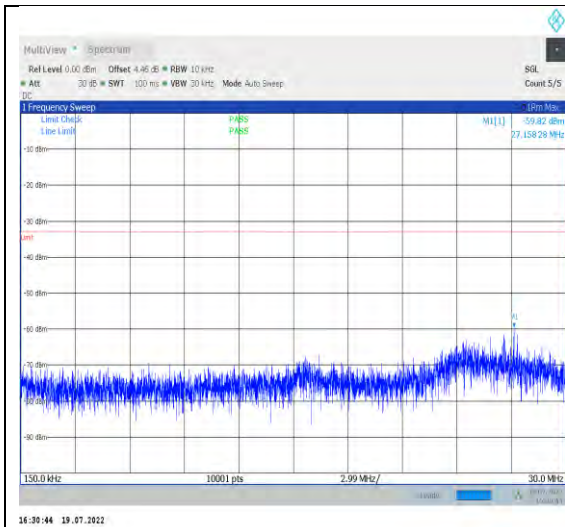


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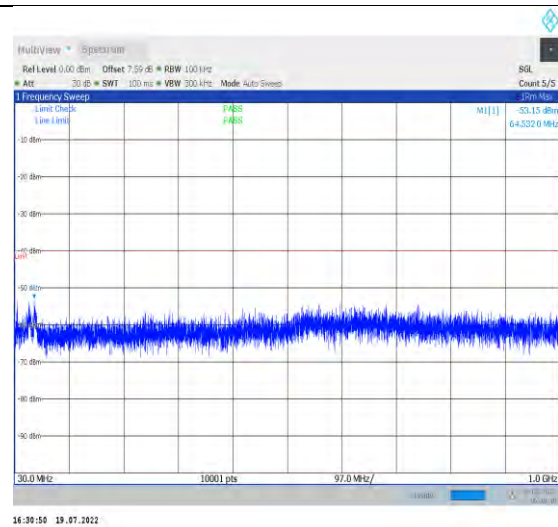
Conducted Spurious Emission for MIMO Test Graphs



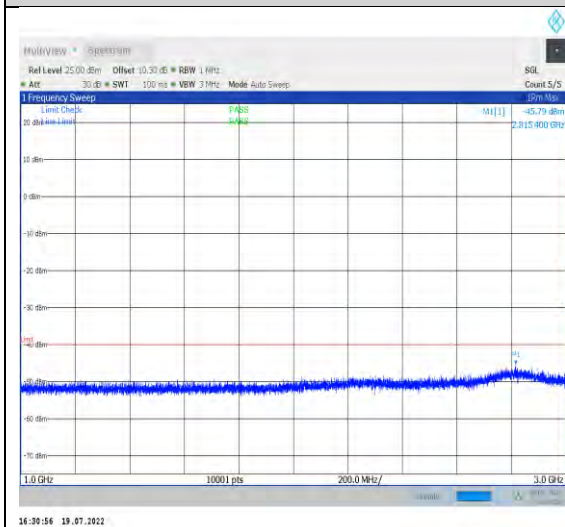




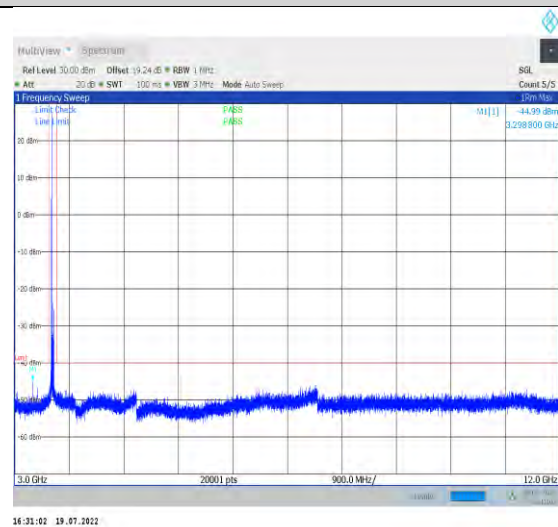
1-N48-PC2-30-40-M-1-CP-QPSK-
Edge_1RB_Left-1@0-0.15-30-Ant1-
27.16--59.82--33-PASS



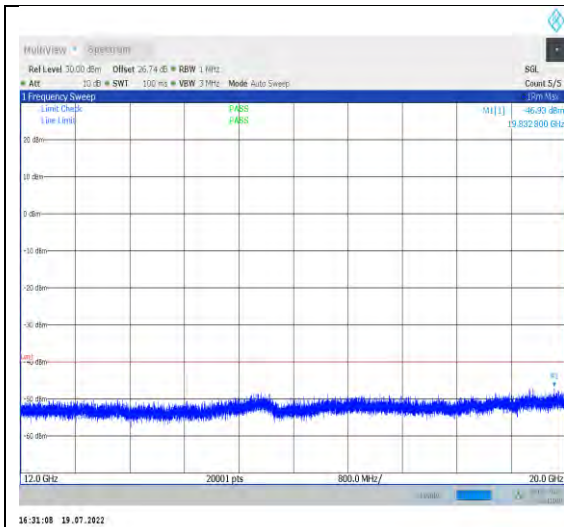
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Edge_1RB_Left-1@0-30-1000-Ant1-
64.53--53.15--40-PASS



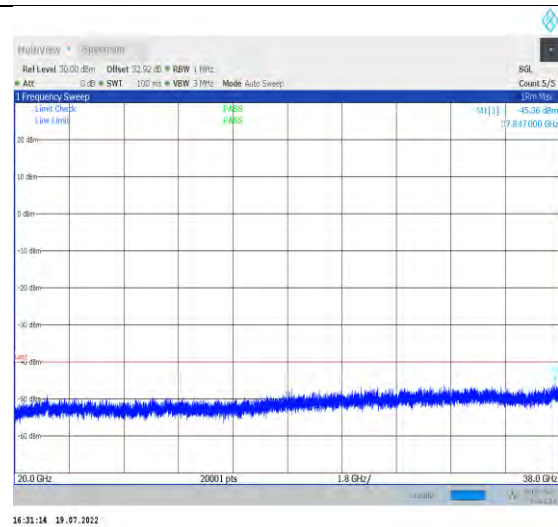
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Edge_1RB_Left-1@0-1000-3000-Ant1-
2815.40--45.79--40-PASS



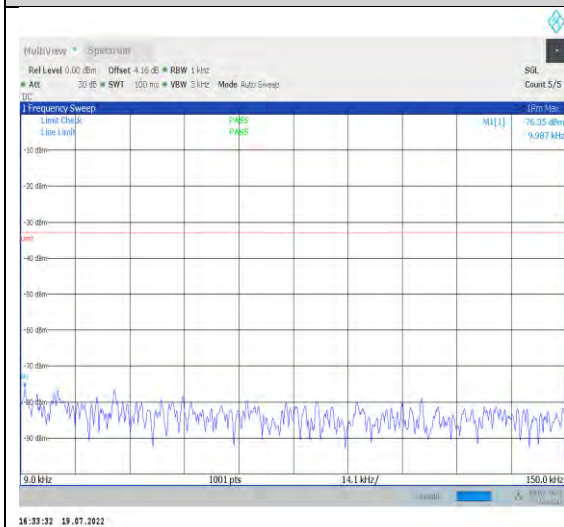
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Edge_1RB_Left-1@0-3000-12000-Ant1-
3298.80--44.99--40-PASS



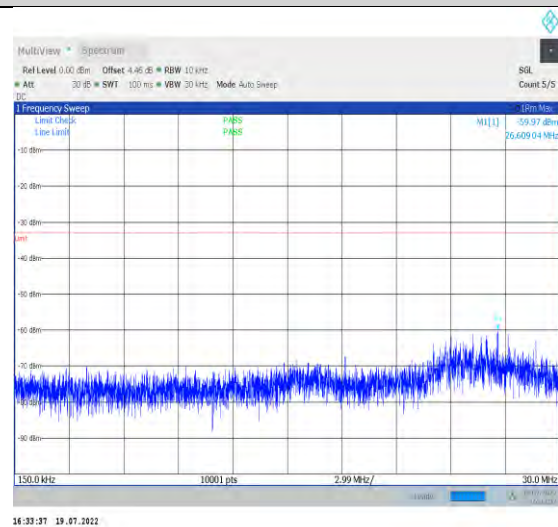
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 Edge_1RB_Left-1@0-12000-20000-
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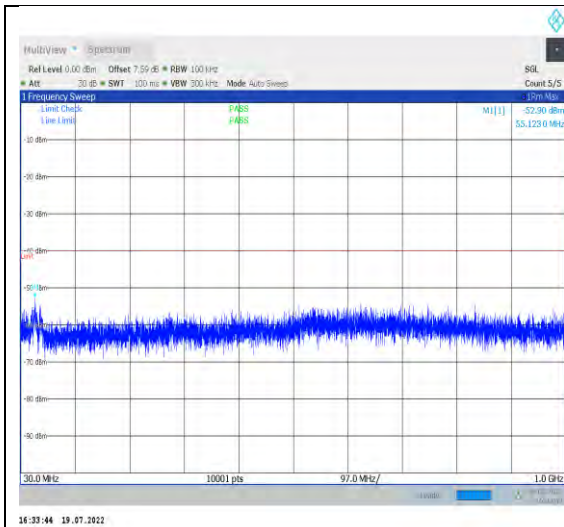
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 Edge_1RB_Left-1@0-20000-38000-
 Ant1-37847.00--45.36--40-PASS



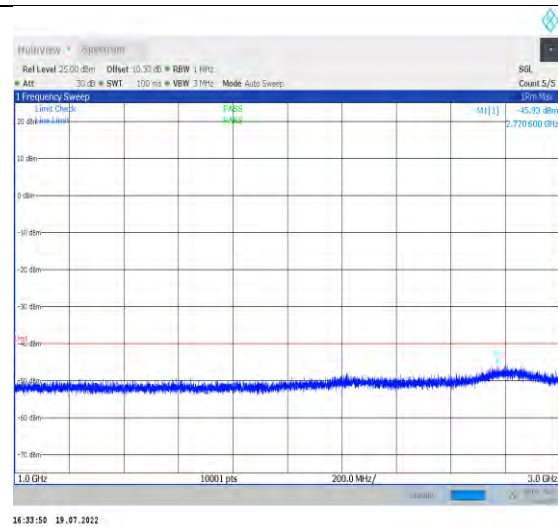
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 Edge_1RB_Left-1@0-0.009-0.15-Ant1-
 0.01--76.35--33-PASS



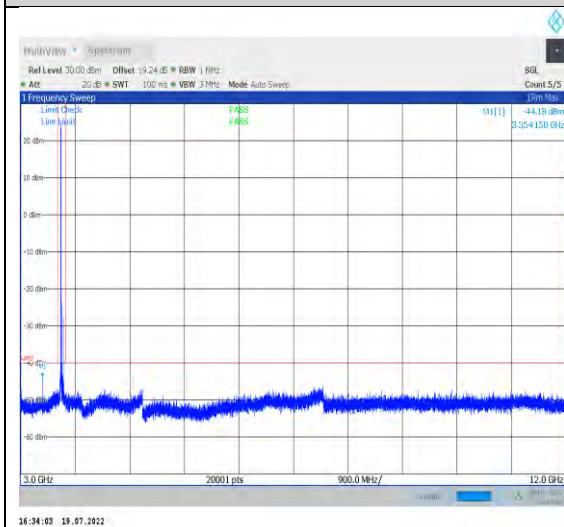
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 Edge_1RB_Left-1@0-0.15-30-Ant1-
 27.16--59.97--33-PASS



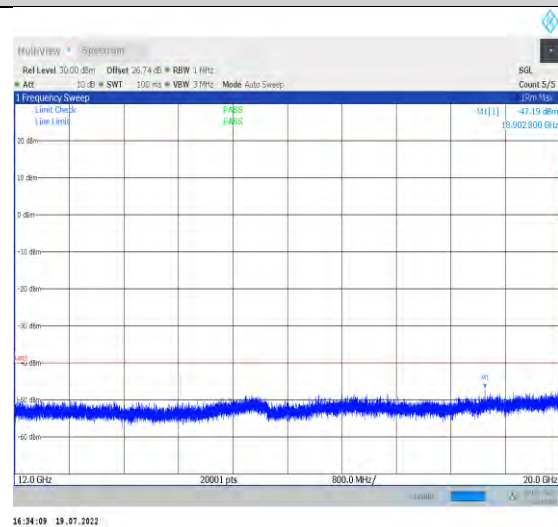
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Edge_1RB_Left-1@0-30-1000-Ant1-
55.12--52.90--40-PASS



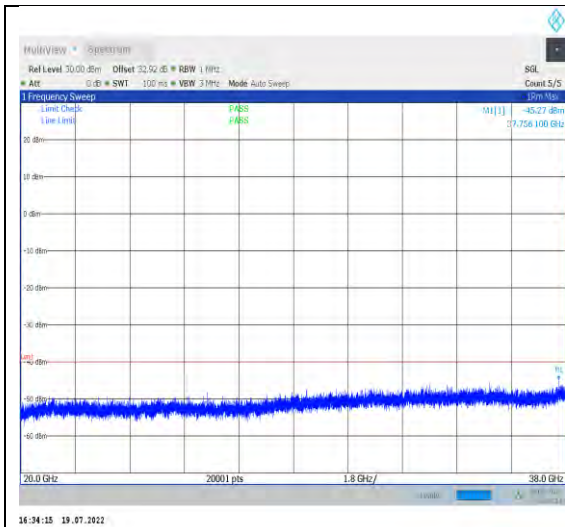
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Edge_1RB_Left-1@0-1000-3000-Ant1-
2825.40--45.93--40-PASS



1-N48-PC2-30-40-H-1-CP-QPSK-
Edge_1RB_Left-1@0-3000-12000-Ant1-
3353.25--44.18--40-PASS



1-N48-PC2-30-40-H-1-CP-QPSK-
Edge_1RB_Left-1@0-12000-20000-
Ant1-18902.80--47.19--40-PASS



1-N48-PC2-30-40-H-1-CP-QPSK-
Edge_1RB_Left-1@0-20000-38000-
Ant1-37756.10--45.27--40-PASS