

LTE B48

Band Edge

Test Result

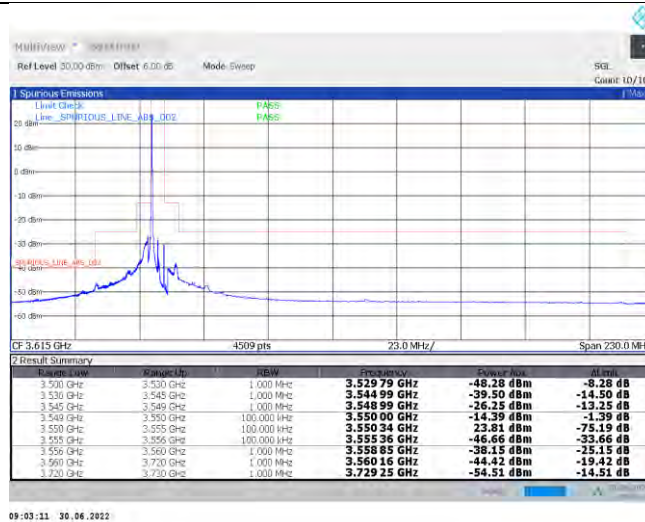
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	-26.25	PASS
Band48	5MHz	QPSK	55265	1RB#0	-39.50	PASS
Band48	5MHz	QPSK	55265	1RB#0	-14.39	PASS
Band48	5MHz	QPSK	55265	1RB#0	-48.28	PASS
Band48	5MHz	QPSK	55265	25RB#0	-47.42	PASS
Band48	5MHz	QPSK	55265	25RB#0	-31.29	PASS
Band48	5MHz	QPSK	55265	25RB#0	-19.46	PASS
Band48	5MHz	QPSK	55265	25RB#0	-20.52	PASS
Band48	5MHz	QPSK	56715	1RB#24	-16.13	PASS
Band48	5MHz	QPSK	56715	1RB#24	-27.24	PASS
Band48	5MHz	QPSK	56715	1RB#24	-48.87	PASS
Band48	5MHz	QPSK	56715	1RB#24	-40.35	PASS
Band48	5MHz	QPSK	56715	25RB#0	-20.80	PASS
Band48	5MHz	QPSK	56715	25RB#0	-20.22	PASS
Band48	5MHz	QPSK	56715	25RB#0	-48.38	PASS
Band48	5MHz	QPSK	56715	25RB#0	-34.05	PASS
Band48	10MHz	QPSK	55290	1RB#0	-25.39	PASS
Band48	10MHz	QPSK	55290	1RB#0	-47.88	PASS
Band48	10MHz	QPSK	55290	1RB#0	-43.46	PASS
Band48	10MHz	QPSK	55290	1RB#0	-27.00	PASS
Band48	10MHz	QPSK	55290	50RB#0	-33.33	PASS

Band48	10MHz	QPSK	55290	50RB#0	-21.03	PASS
Band48	10MHz	QPSK	55290	50RB#0	-26.51	PASS
Band48	10MHz	QPSK	55290	50RB#0	-40.35	PASS
Band48	10MHz	QPSK	56690	1RB#49	-26.46	PASS
Band48	10MHz	QPSK	56690	1RB#49	-27.46	PASS
Band48	10MHz	QPSK	56690	1RB#49	-43.60	PASS
Band48	10MHz	QPSK	56690	1RB#49	-48.32	PASS
Band48	10MHz	QPSK	56690	50RB#0	-26.94	PASS
Band48	10MHz	QPSK	56690	50RB#0	-41.66	PASS
Band48	10MHz	QPSK	56690	50RB#0	-35.29	PASS
Band48	10MHz	QPSK	56690	50RB#0	-21.74	PASS
Band48	15MHz	QPSK	55315	1RB#0	-48.17	PASS
Band48	15MHz	QPSK	55315	1RB#0	-42.96	PASS
Band48	15MHz	QPSK	55315	1RB#0	-28.71	PASS
Band48	15MHz	QPSK	55315	1RB#0	-21.96	PASS
Band48	15MHz	QPSK	55315	75RB#0	-41.18	PASS
Band48	15MHz	QPSK	55315	75RB#0	-34.50	PASS
Band48	15MHz	QPSK	55315	75RB#0	-27.93	PASS
Band48	15MHz	QPSK	55315	75RB#0	-30.53	PASS
Band48	15MHz	QPSK	56665	1RB#74	-27.81	PASS
Band48	15MHz	QPSK	56665	1RB#74	-47.84	PASS
Band48	15MHz	QPSK	56665	1RB#74	-43.24	PASS
Band48	15MHz	QPSK	56665	1RB#74	-21.48	PASS
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Band48	15MHz	QPSK	56665	75RB#0	-31.65	PASS

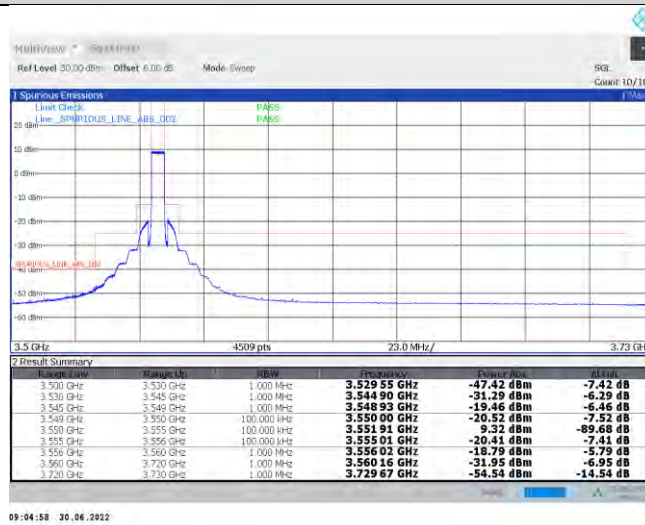
Band48	15MHz	QPSK	56665	75RB#0	-38.79	PASS
Band48	15MHz	QPSK	56665	75RB#0	-42.74	PASS
Band48	20MHz	QPSK	55340	1RB#0	-28.92	PASS
Band48	20MHz	QPSK	55340	1RB#0	-43.11	PASS
Band48	20MHz	QPSK	55340	1RB#0	-48.10	PASS
Band48	20MHz	QPSK	55340	1RB#0	-24.30	PASS
Band48	20MHz	QPSK	55340	100RB#0	-31.82	PASS
Band48	20MHz	QPSK	55340	100RB#0	-40.54	PASS
Band48	20MHz	QPSK	55340	100RB#0	-33.63	PASS
Band48	20MHz	QPSK	55340	100RB#0	-28.17	PASS
Band48	20MHz	QPSK	56640	1RB#99	-24.06	PASS
Band48	20MHz	QPSK	56640	1RB#99	-28.35	PASS
Band48	20MHz	QPSK	56640	1RB#99	-43.01	PASS
Band48	20MHz	QPSK	56640	1RB#99	-48.34	PASS
Band48	20MHz	QPSK	56640	100RB#0	-31.36	PASS
Band48	20MHz	QPSK	56640	100RB#0	-37.43	PASS
Band48	20MHz	QPSK	56640	100RB#0	-42.38	PASS
Band48	20MHz	QPSK	56640	100RB#0	-34.30	PASS

Test Graphs

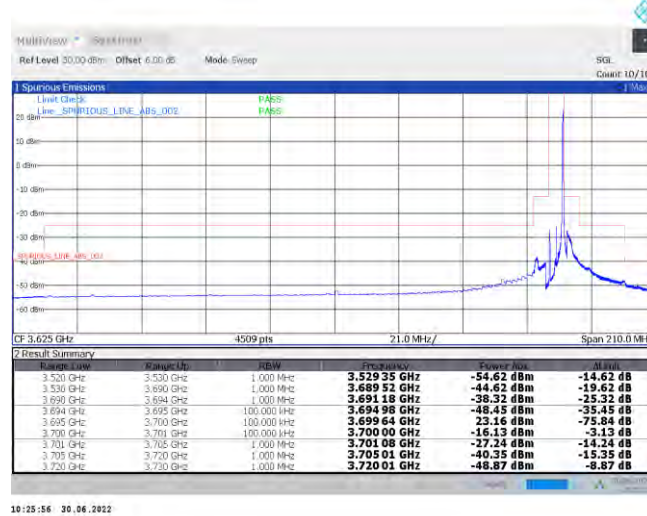
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Band48-5MHz-QPSK-55265-25RB#0



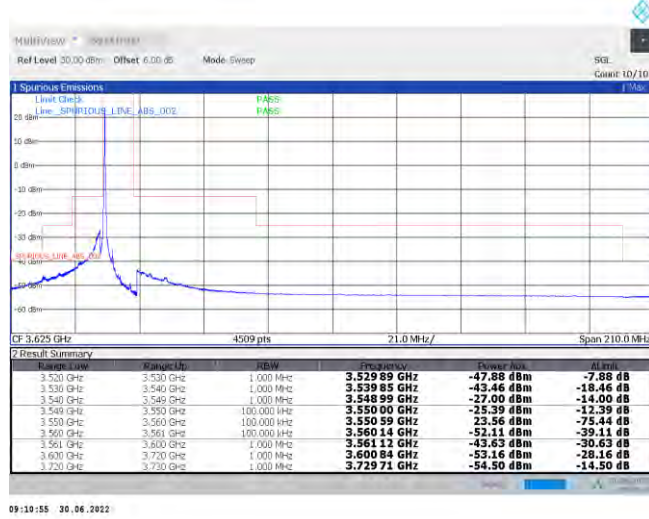
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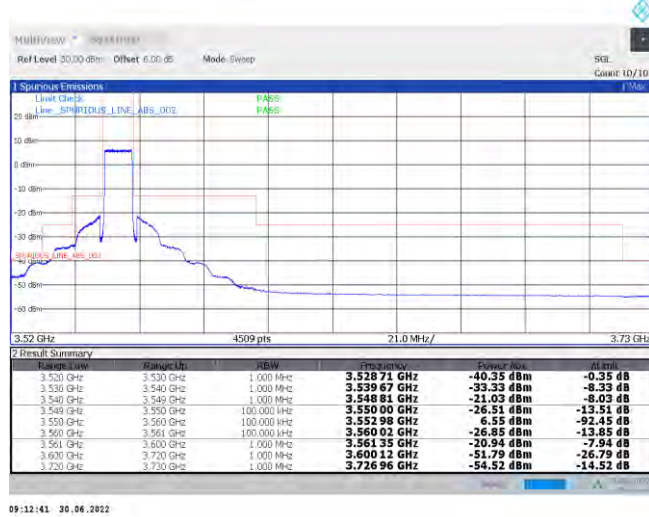
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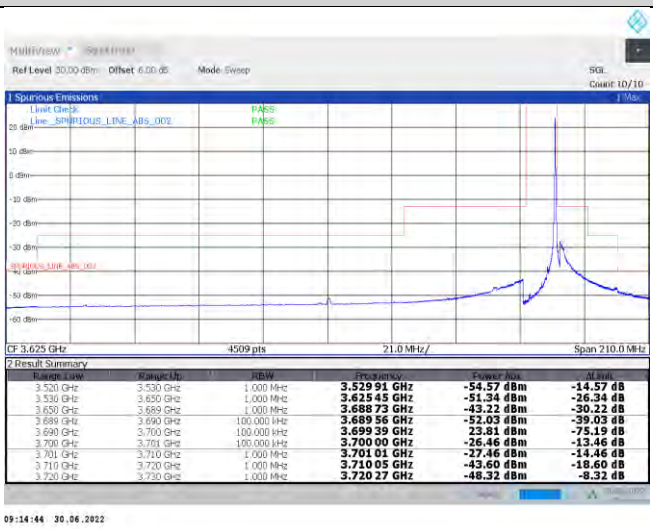
Band48-10MHz-QPSK-55290-1RB#0



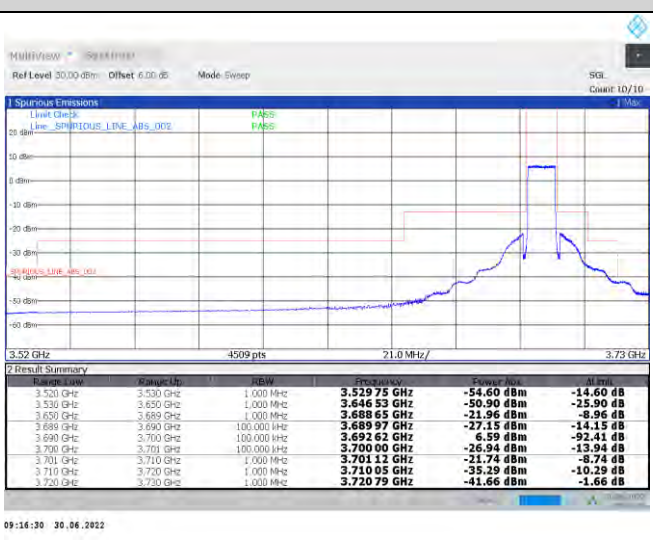
Band48-10MHz-QPSK-55290-50RB#0



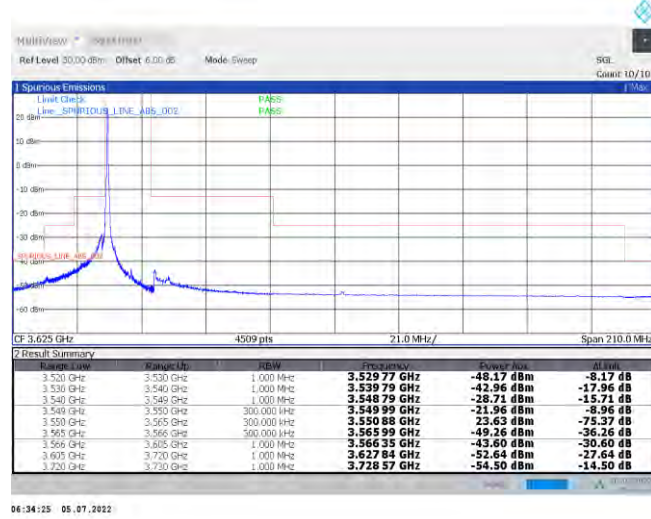
Band48-10MHz-QPSK-56690-1RB#49



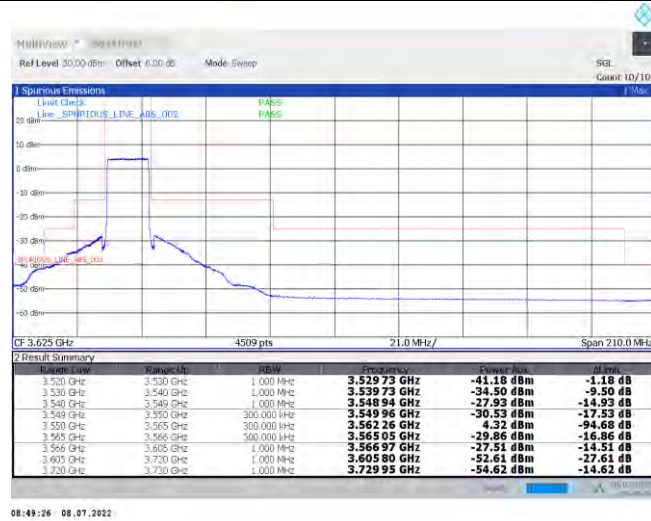
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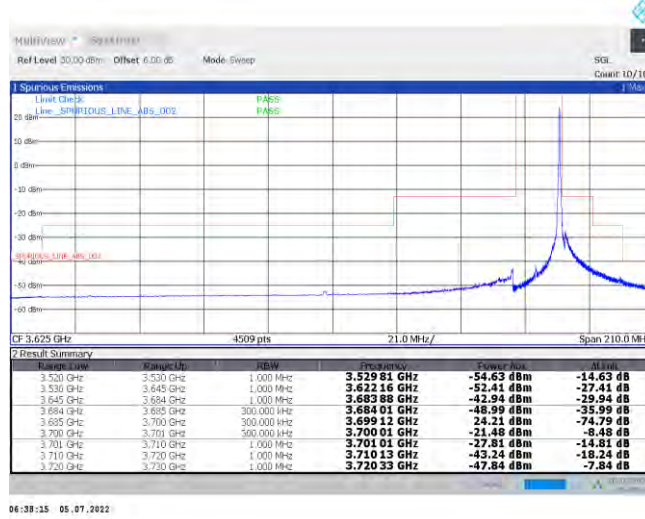
Band48-15MHz-QPSK-55315-1RB#0



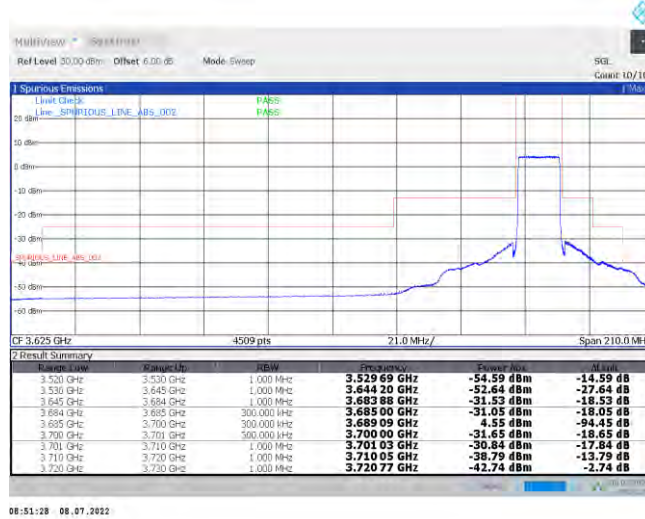
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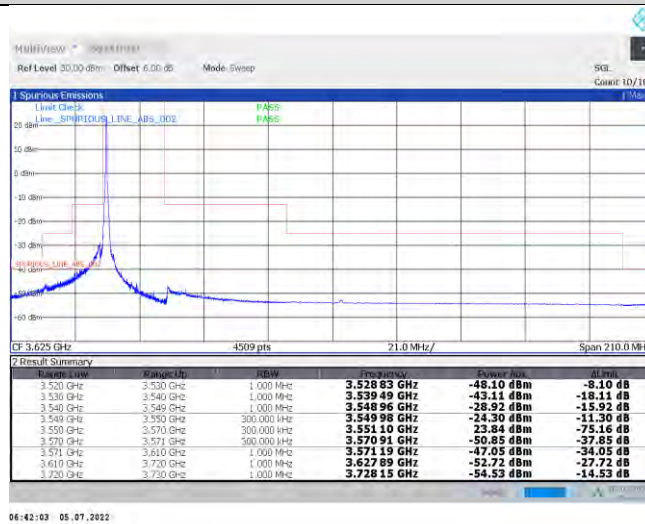
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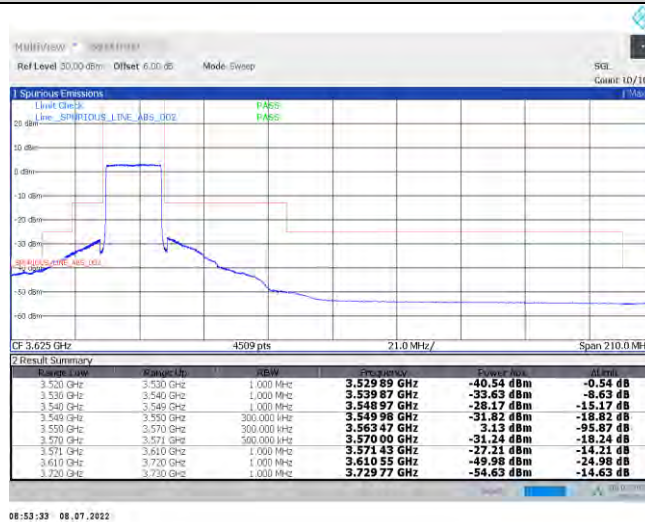
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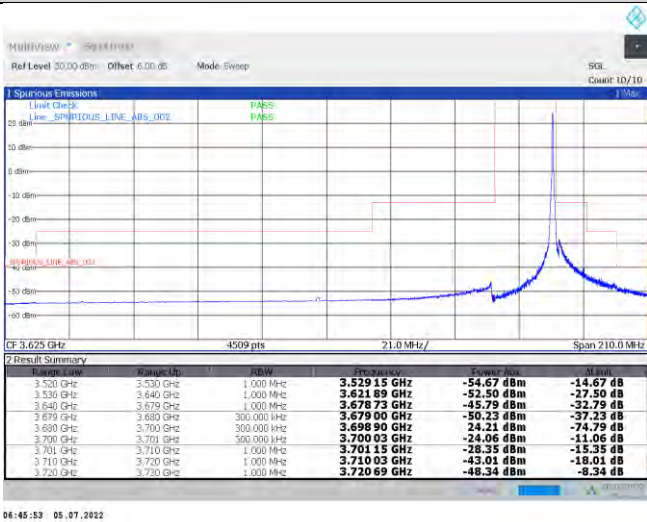
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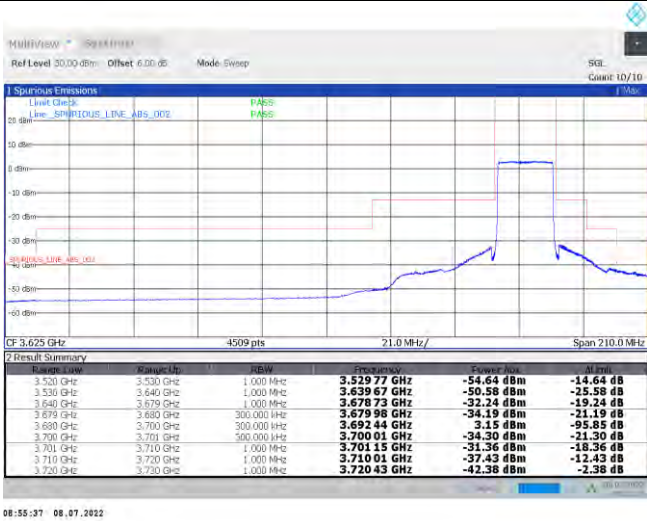
Band48-20MHz-QPSK-55340-100RB#0



Band48-20MHz-QPSK-56640-1RB#99



Band48-20MHz-QPSK-56640-100RB#0



5G NR N48

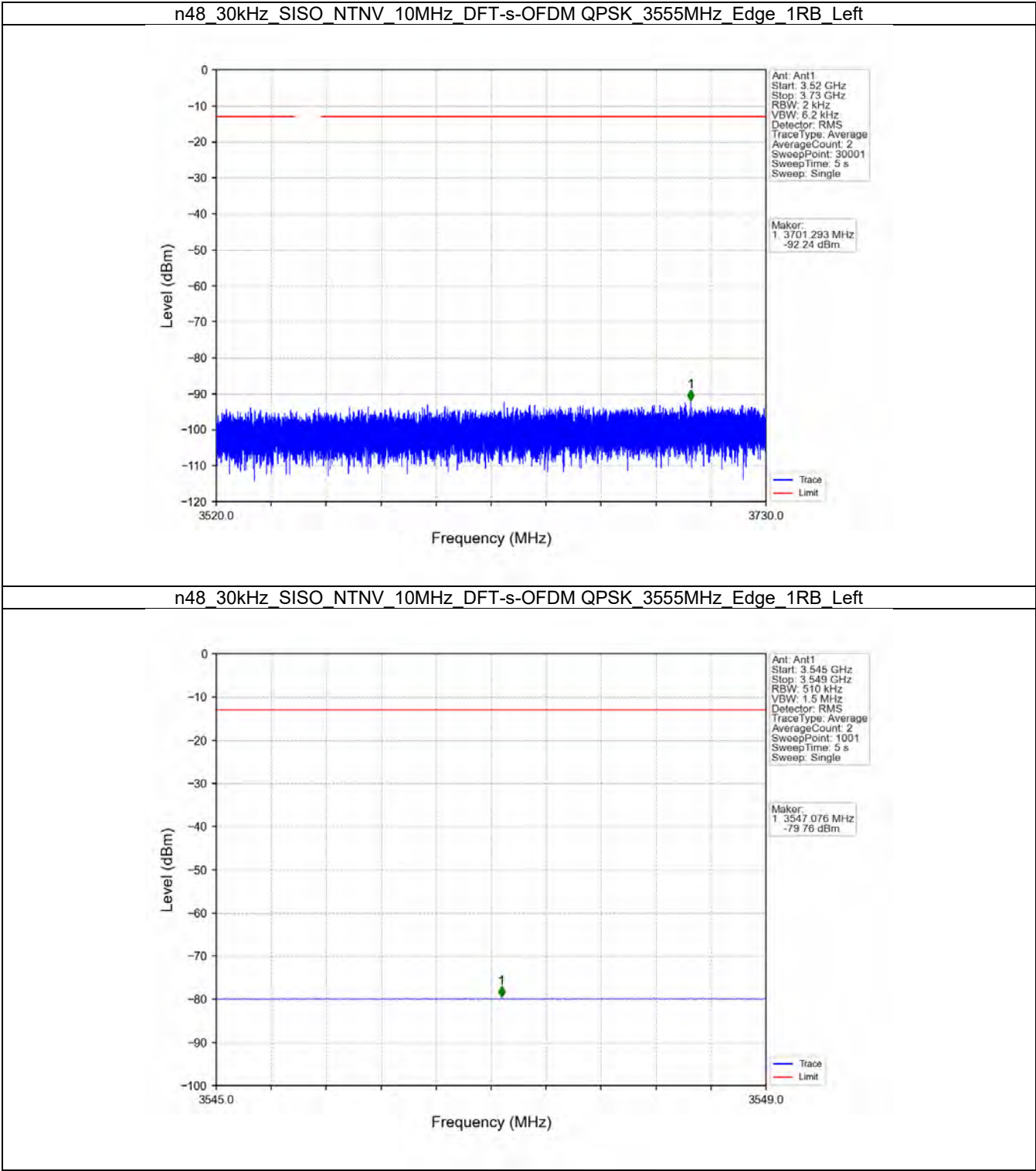
1. Spurious Emission

1.1 30k_SISO_10MHz_NTNV

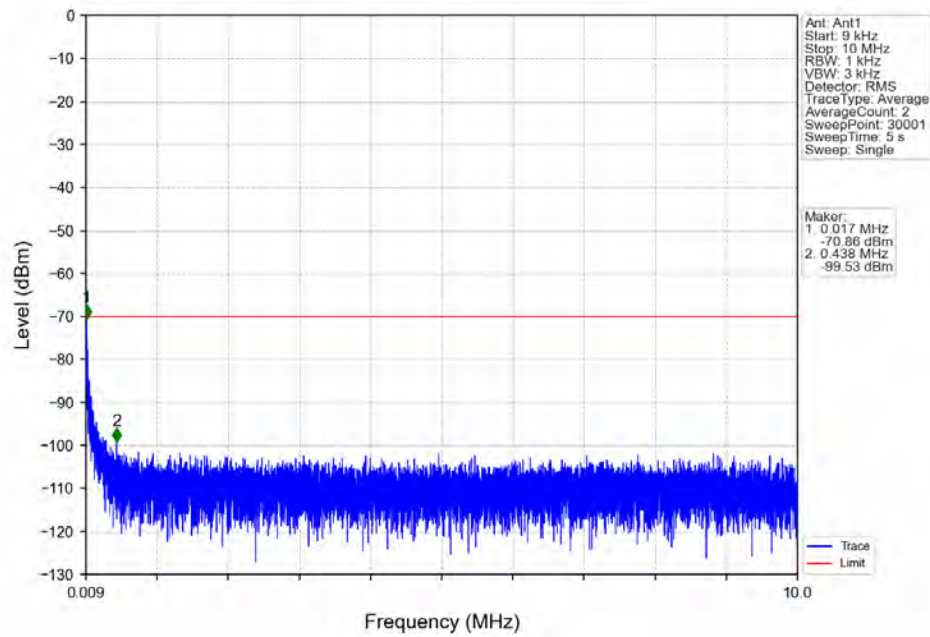
1.1.1 Test Result

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				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	

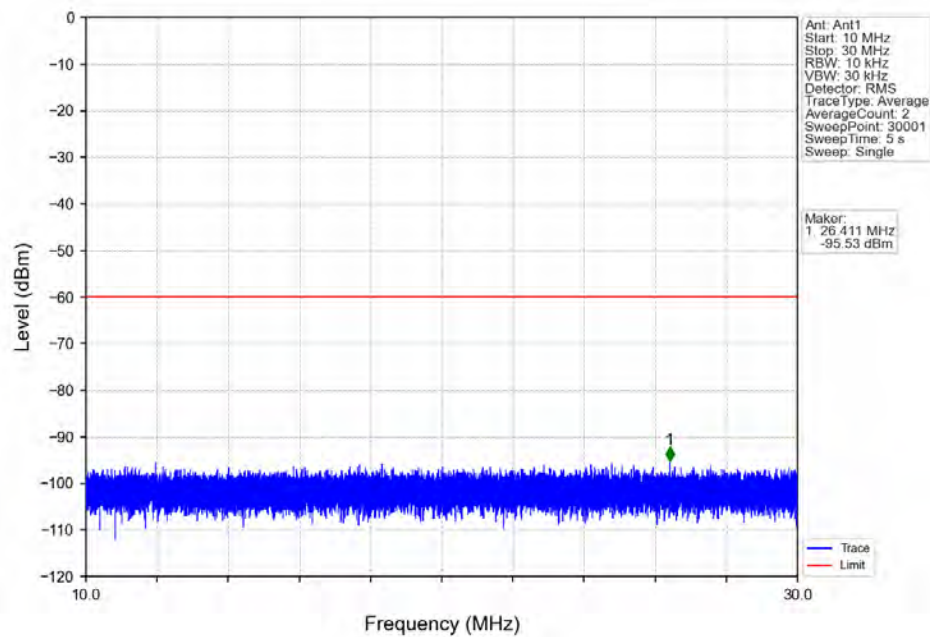
1.1.2 Test Graph



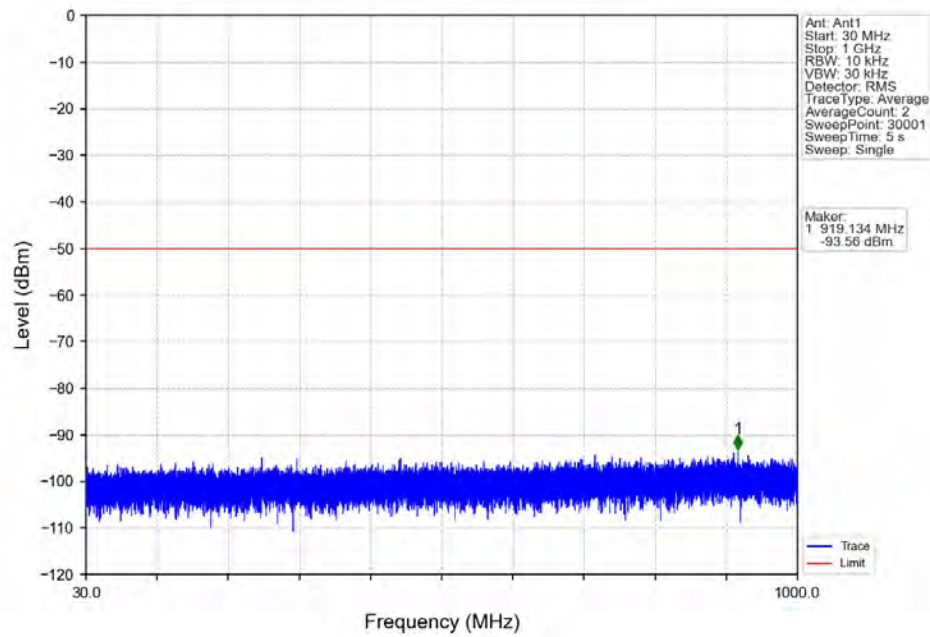
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Edge 1RB Left



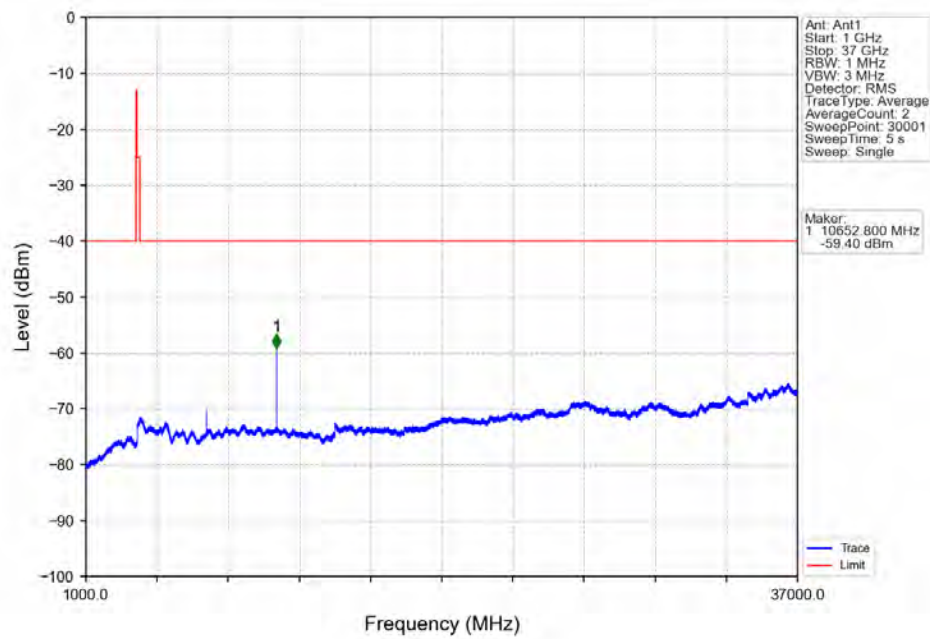
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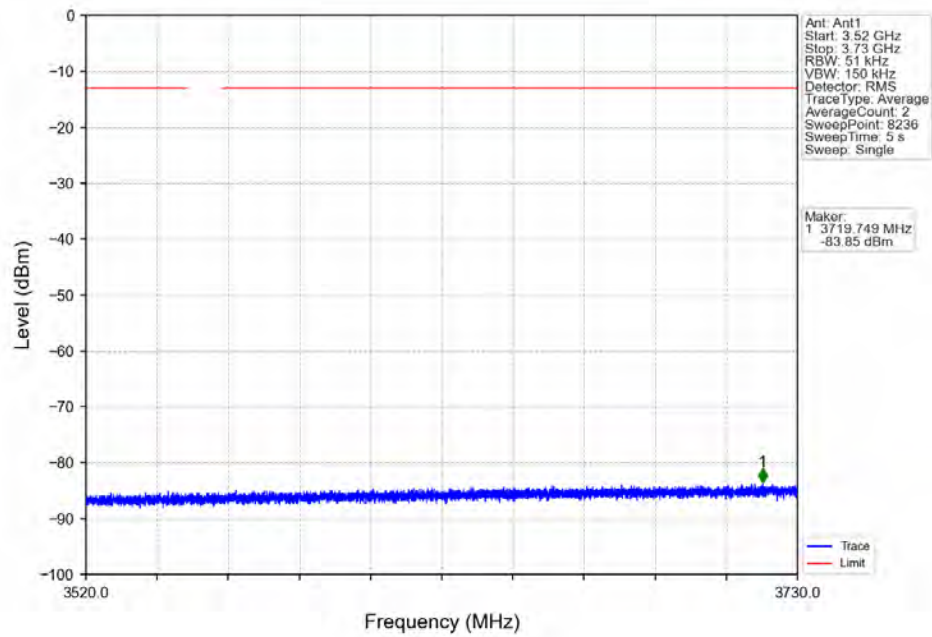
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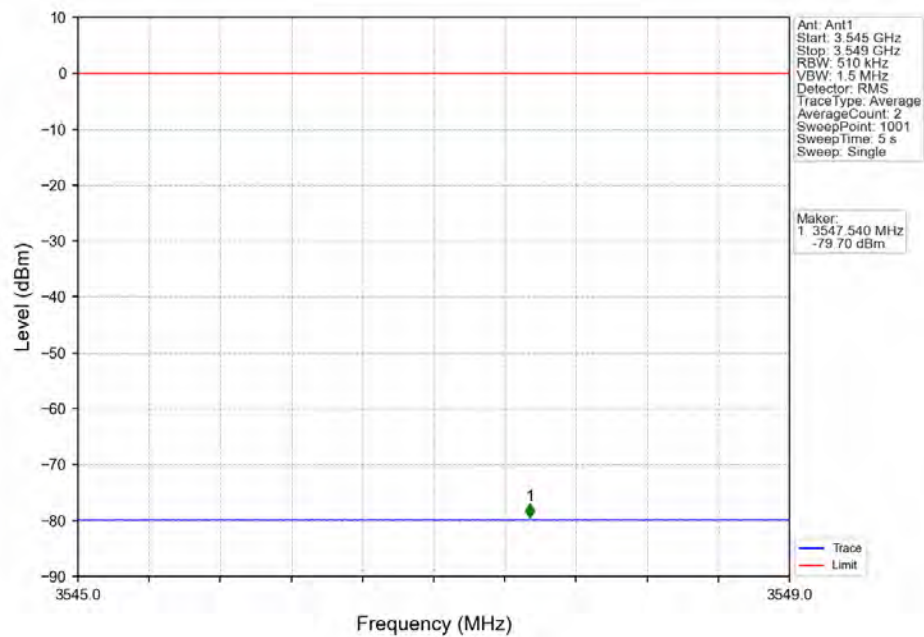
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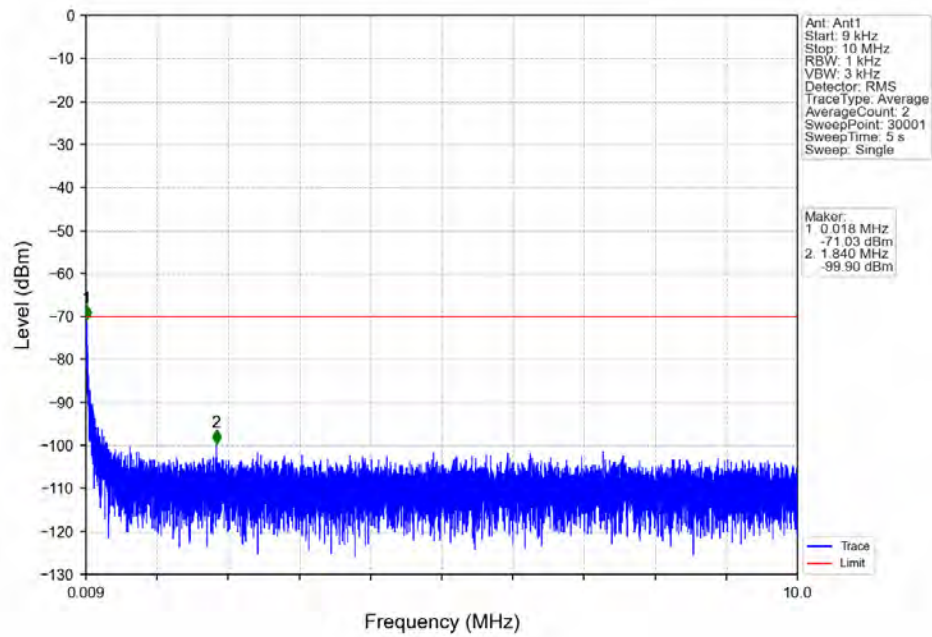
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Outer Full



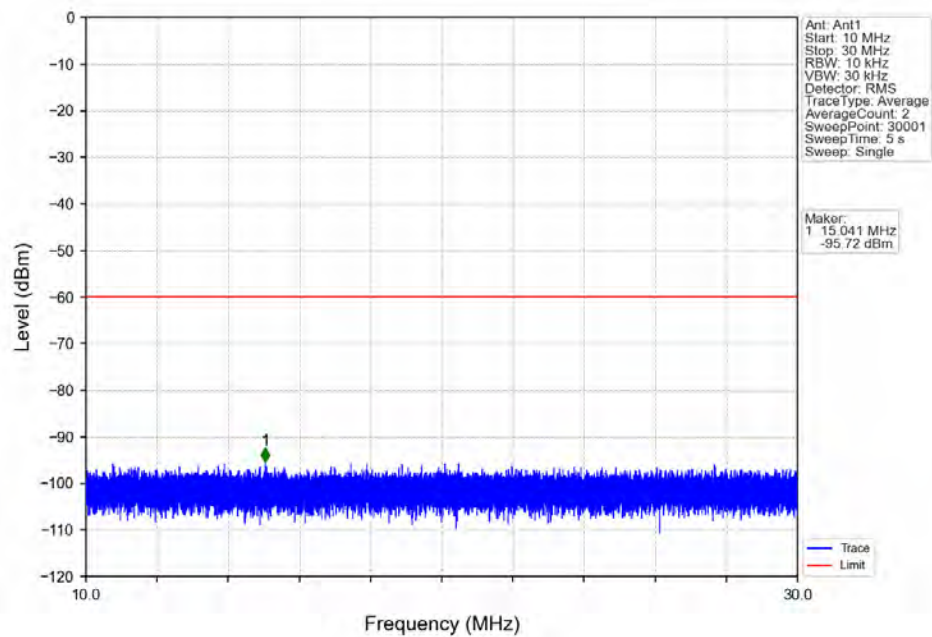
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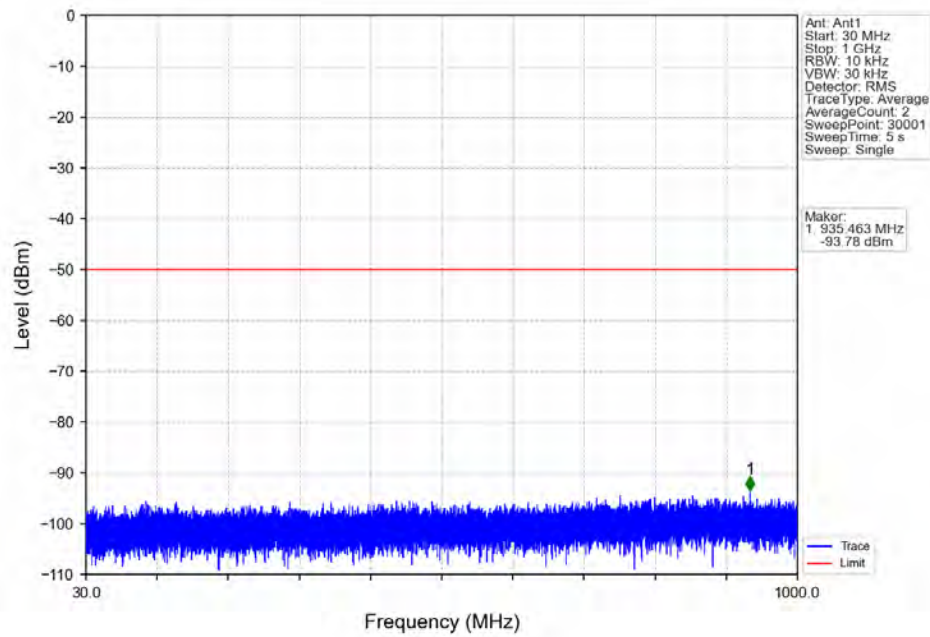
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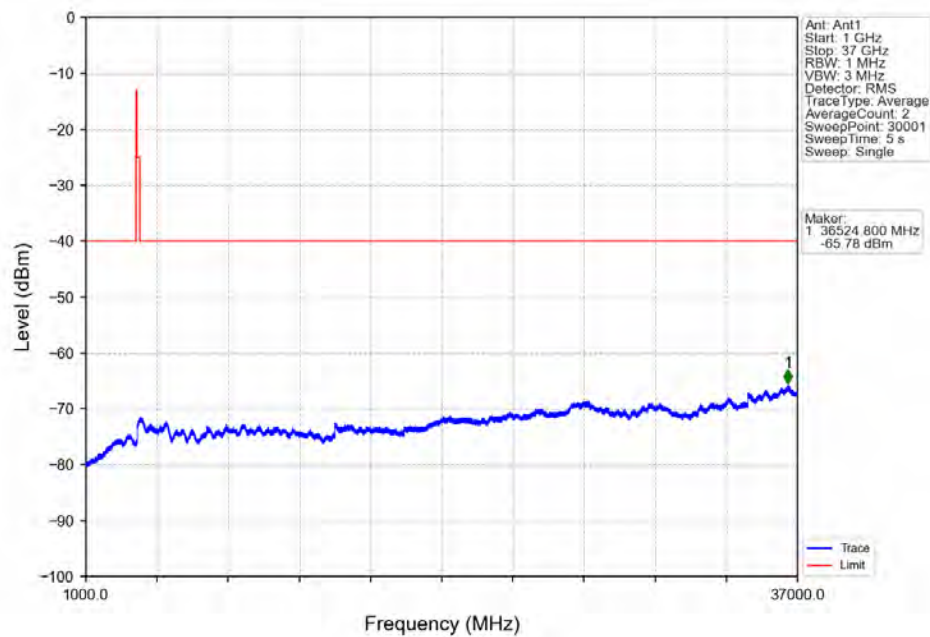
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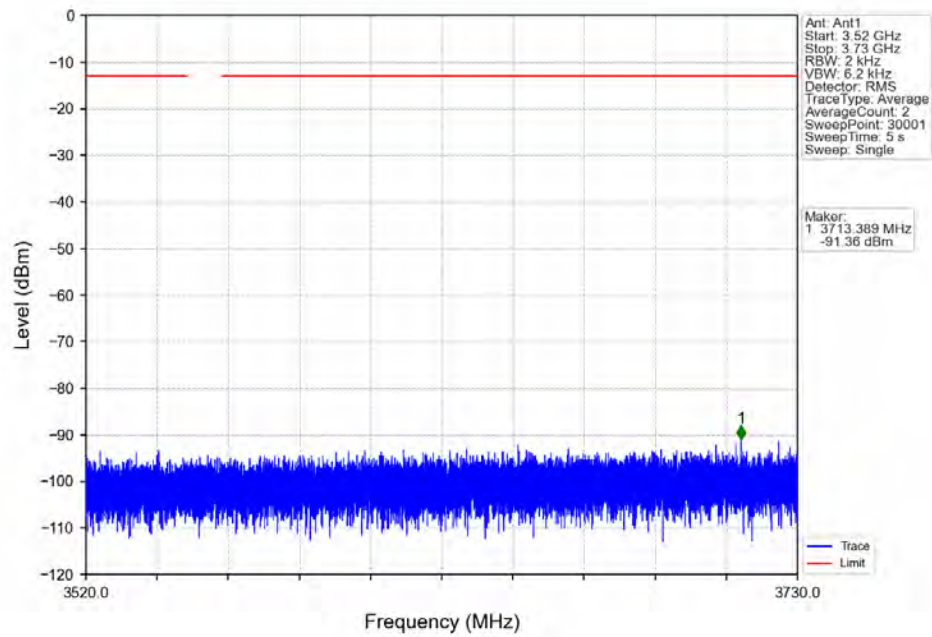
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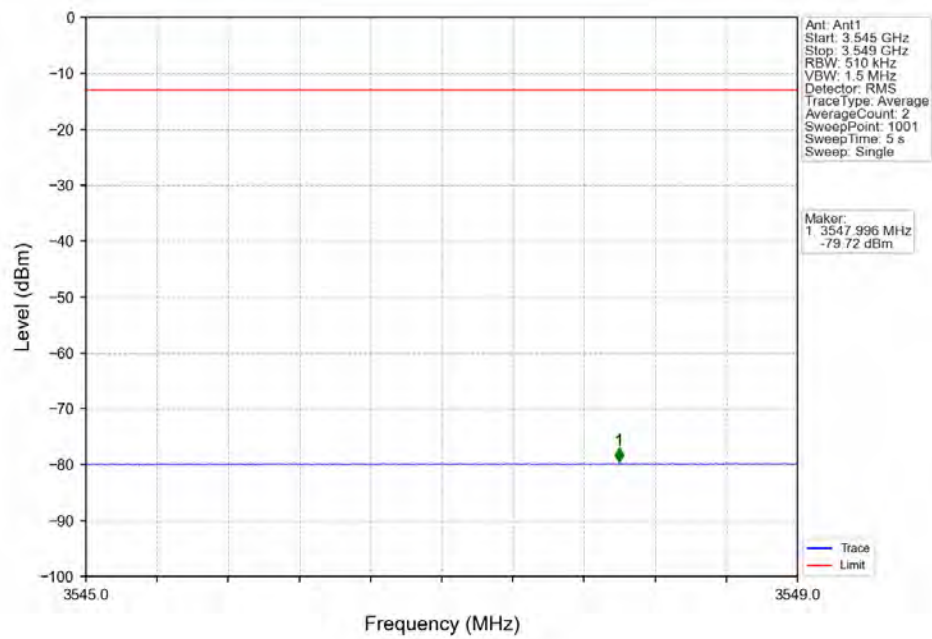
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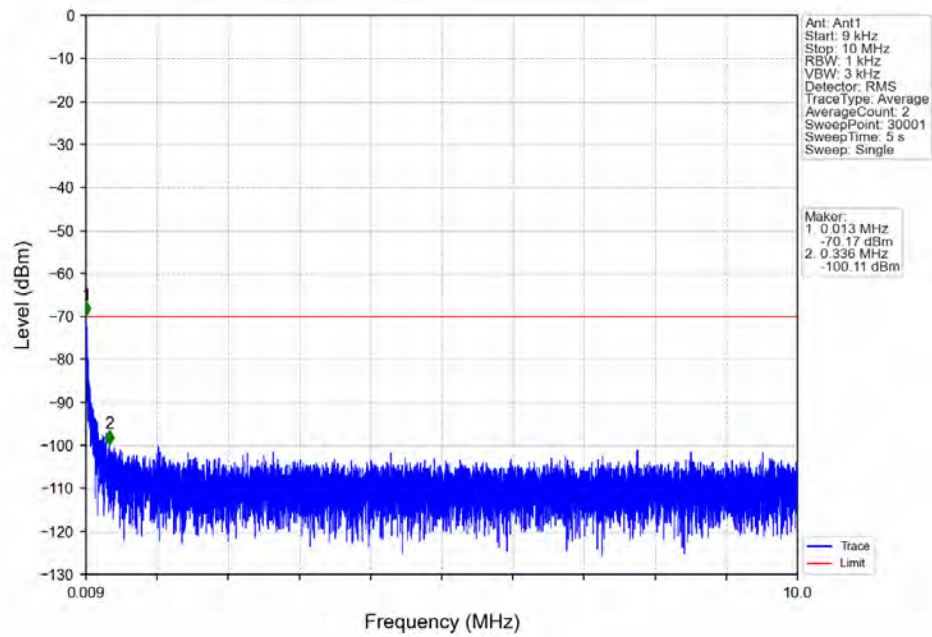
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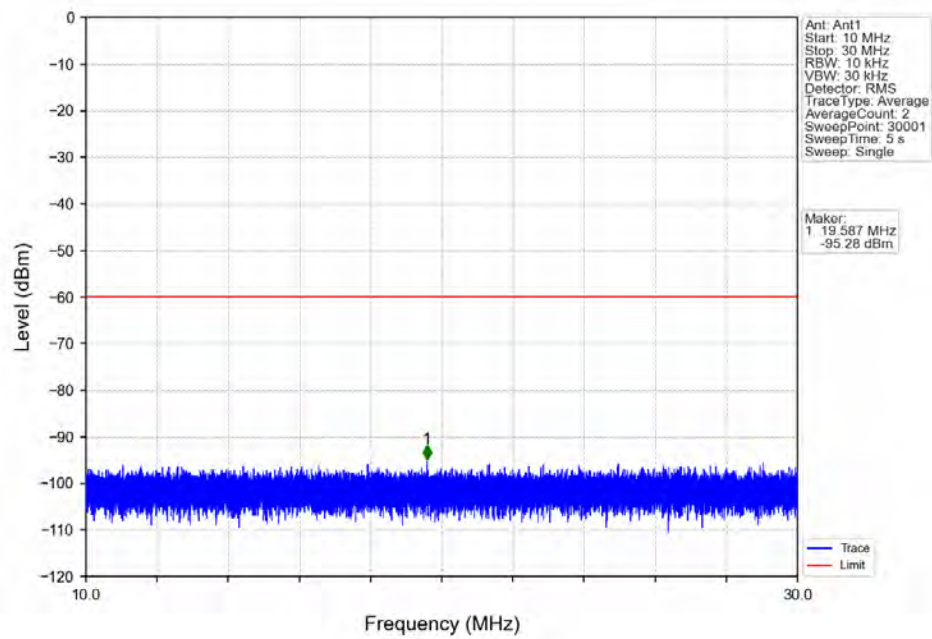
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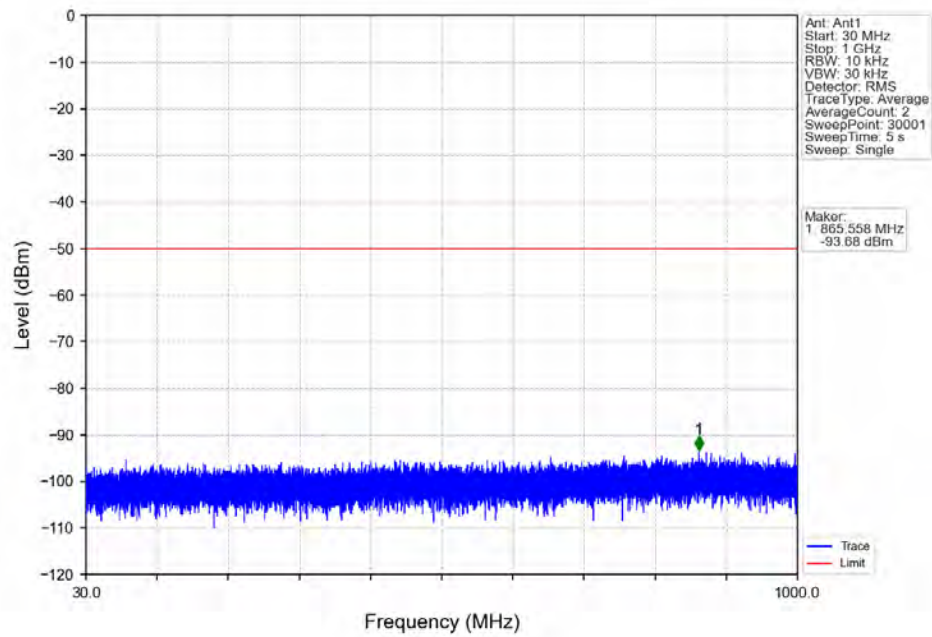
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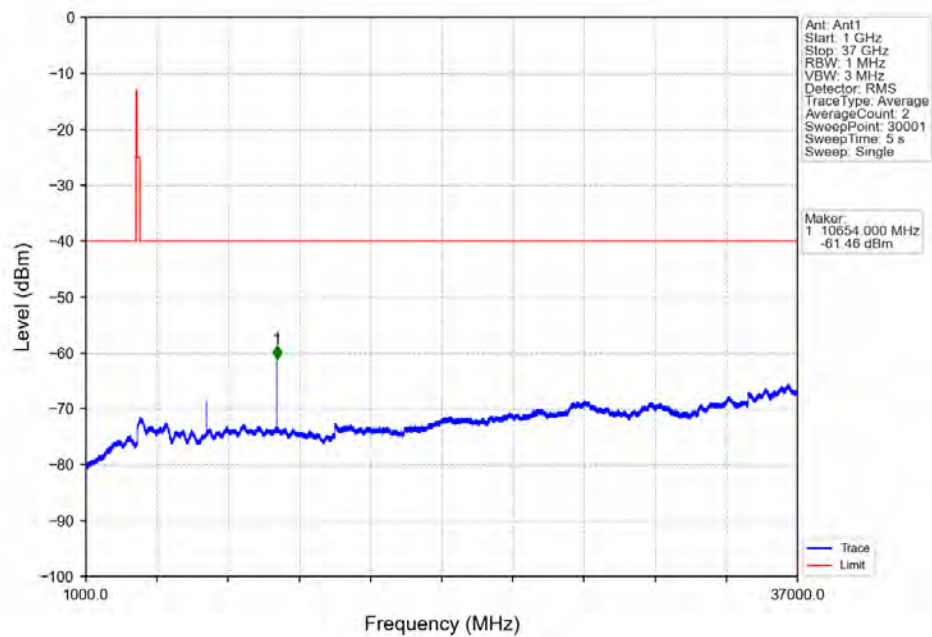
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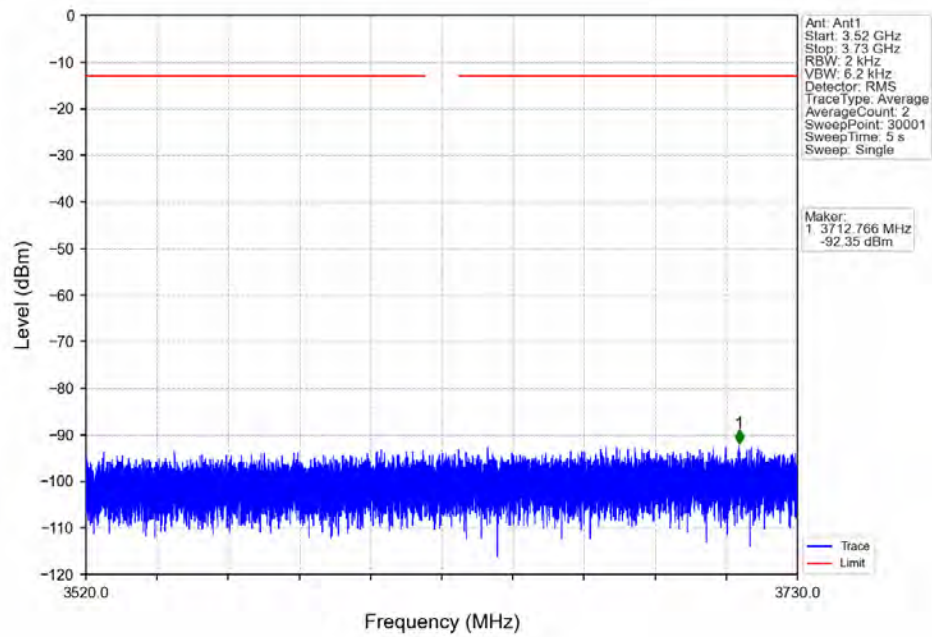
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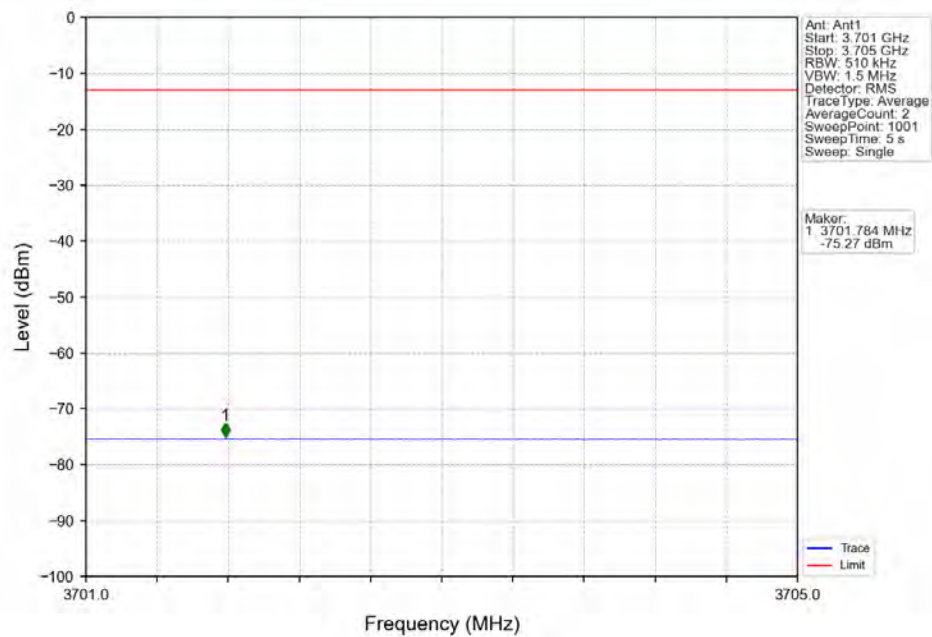
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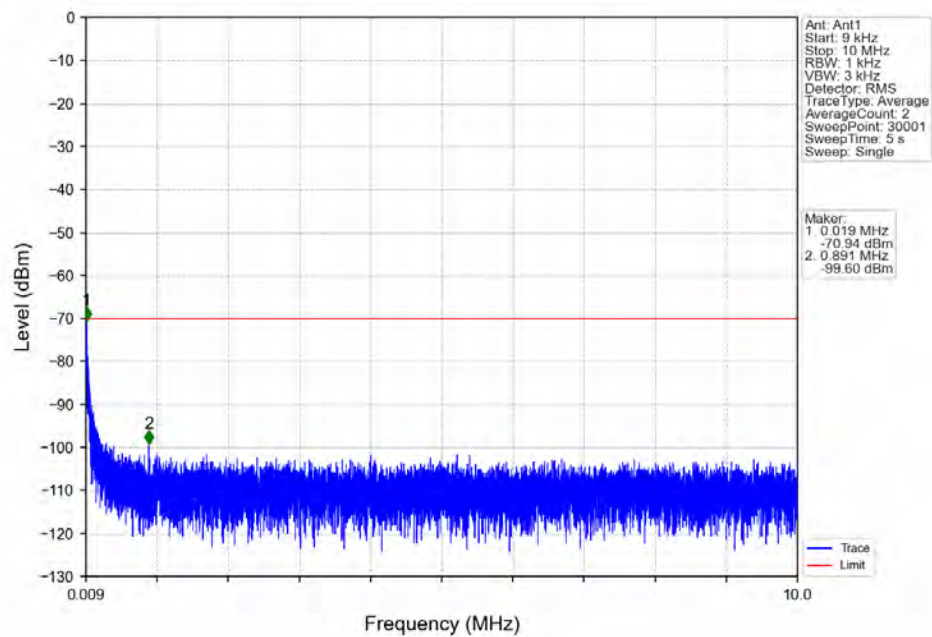
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3624.99MHz Edge 1RB Left



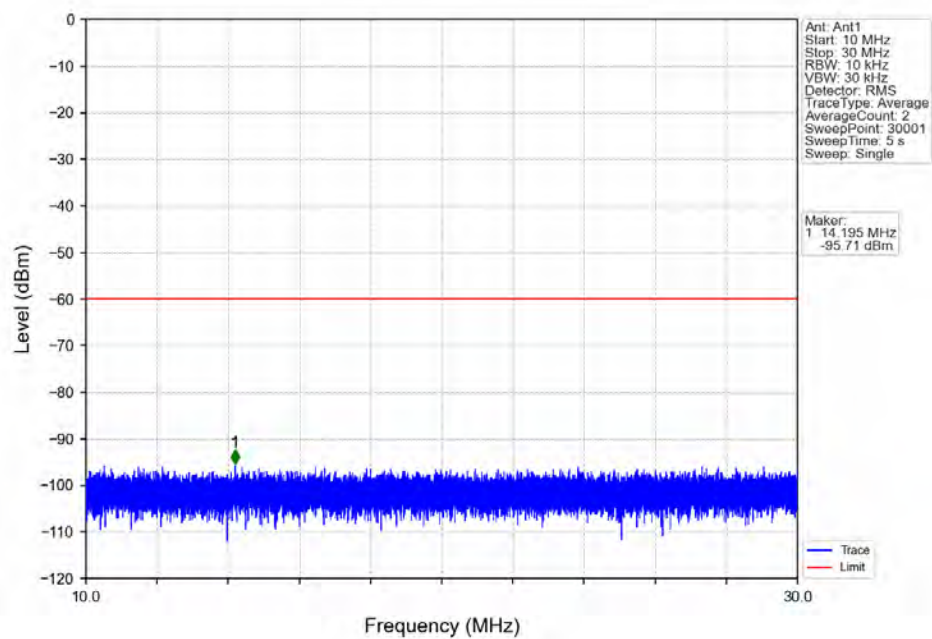
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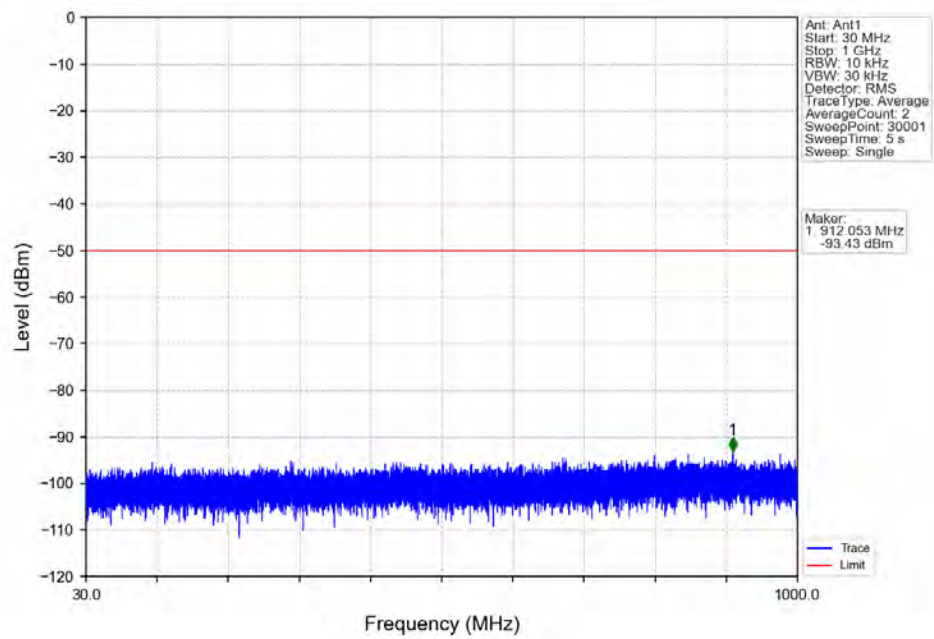
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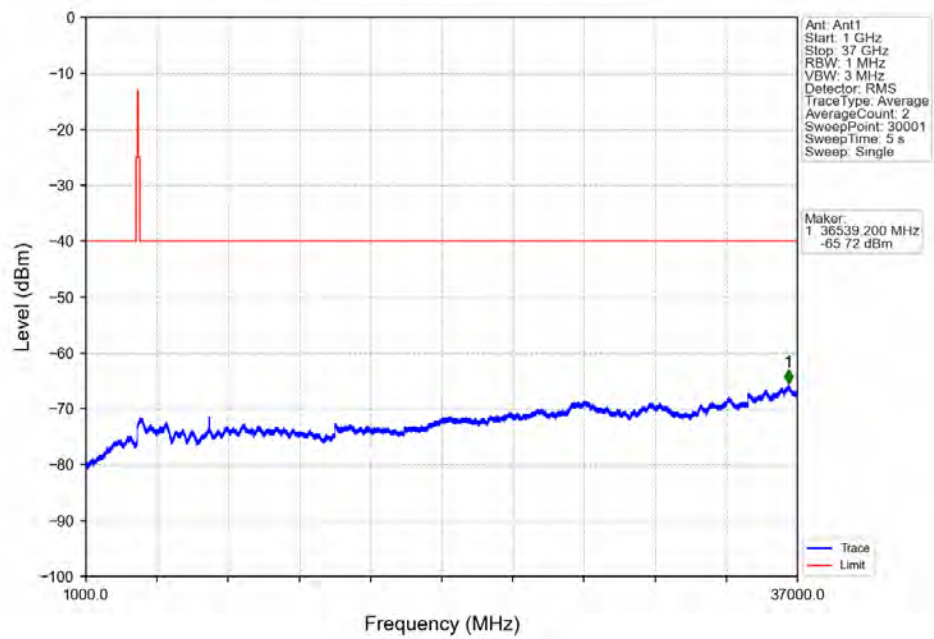
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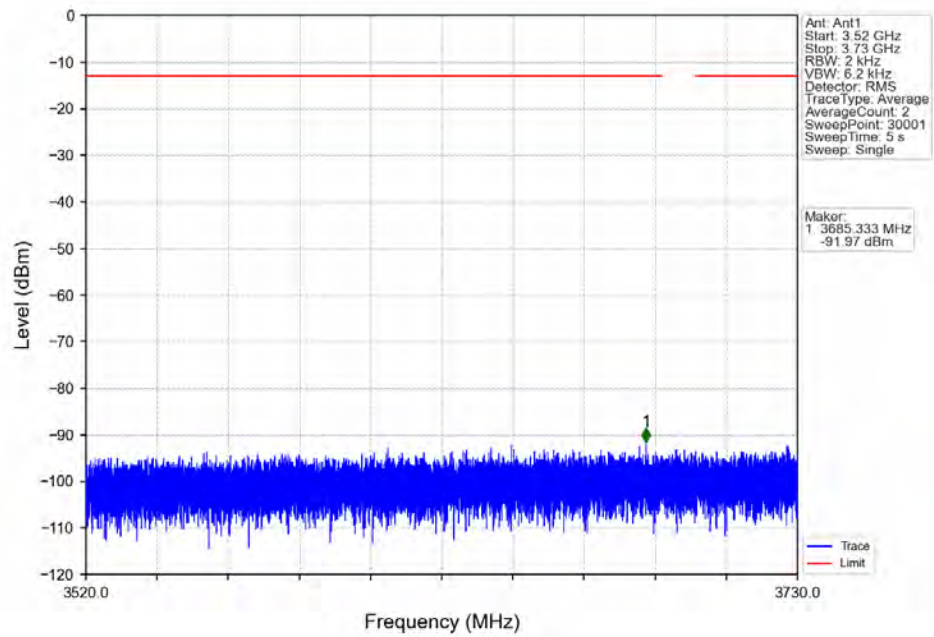
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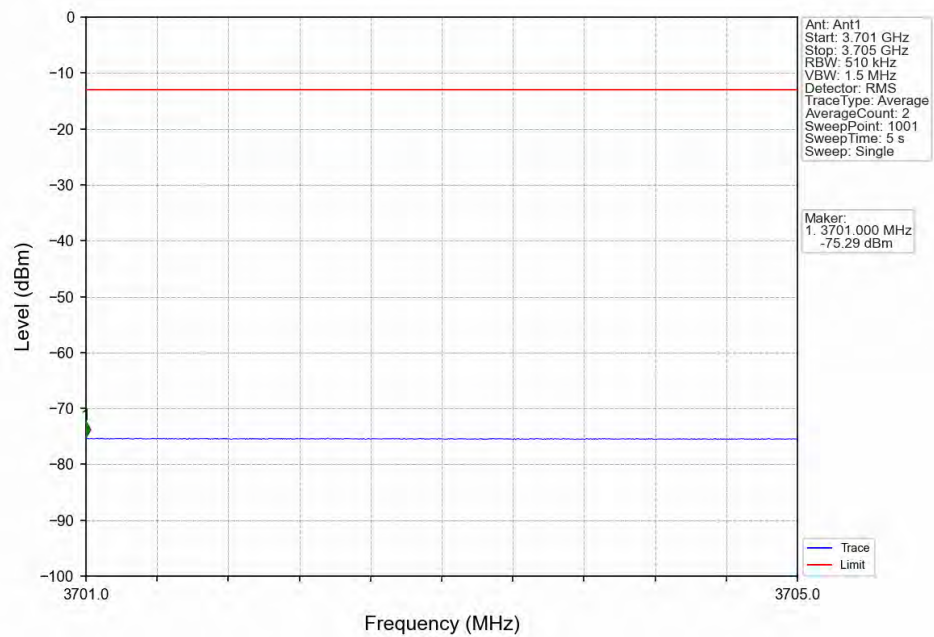
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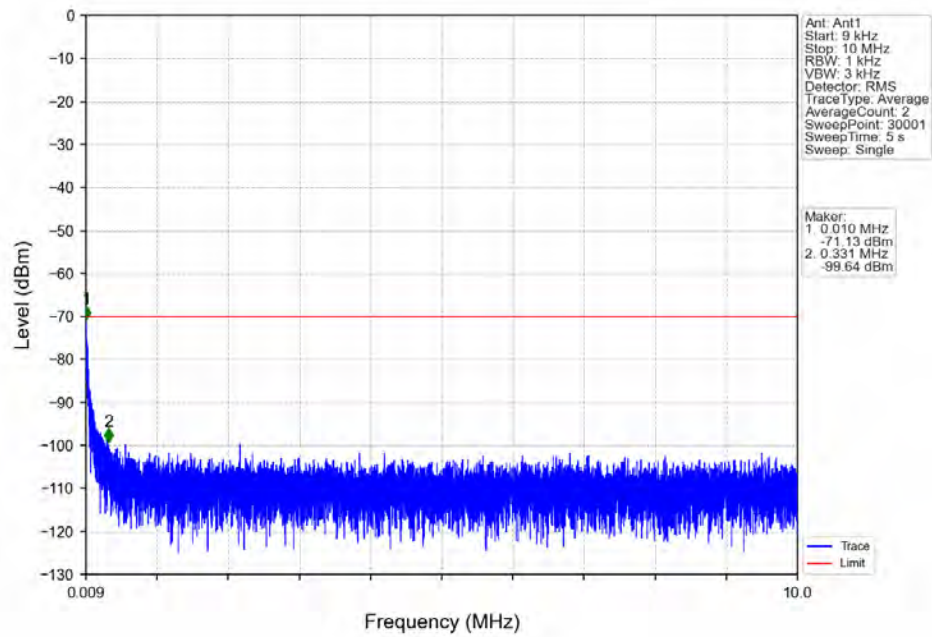
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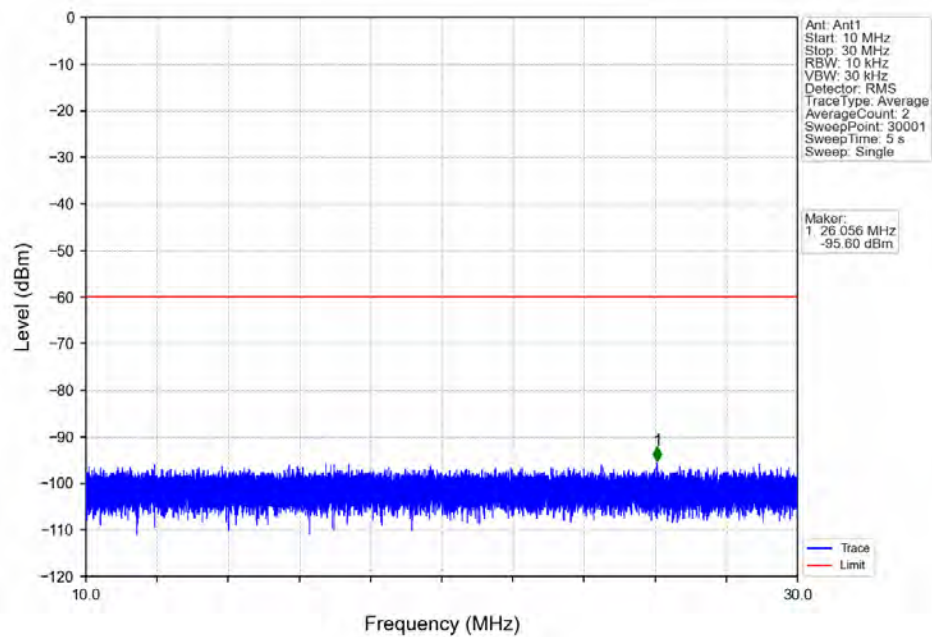
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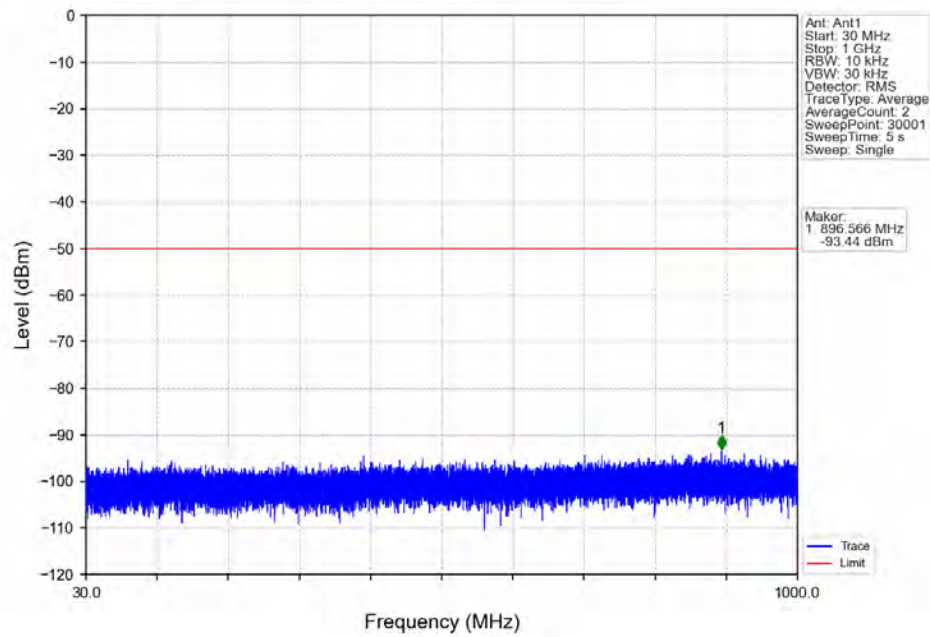
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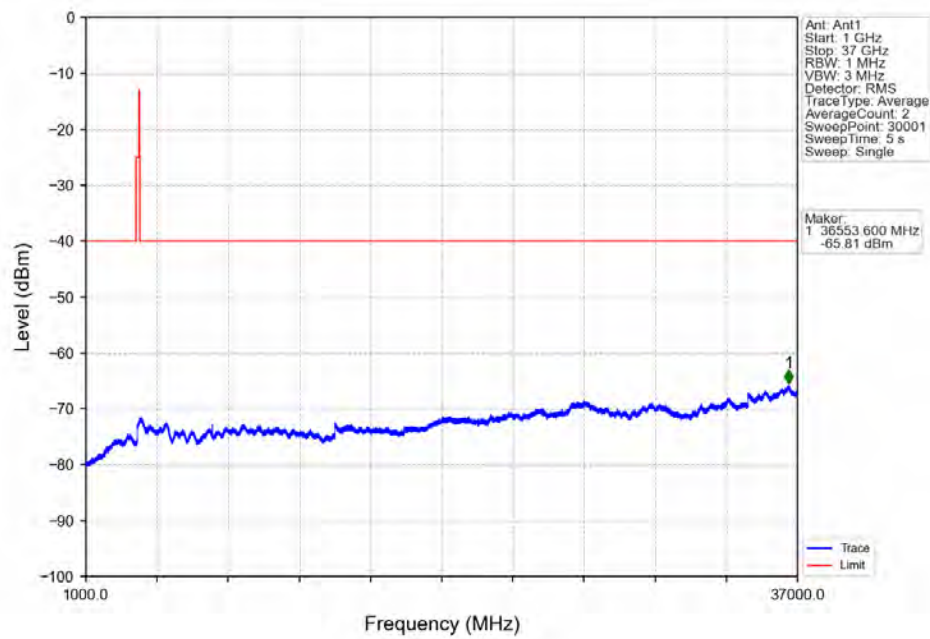
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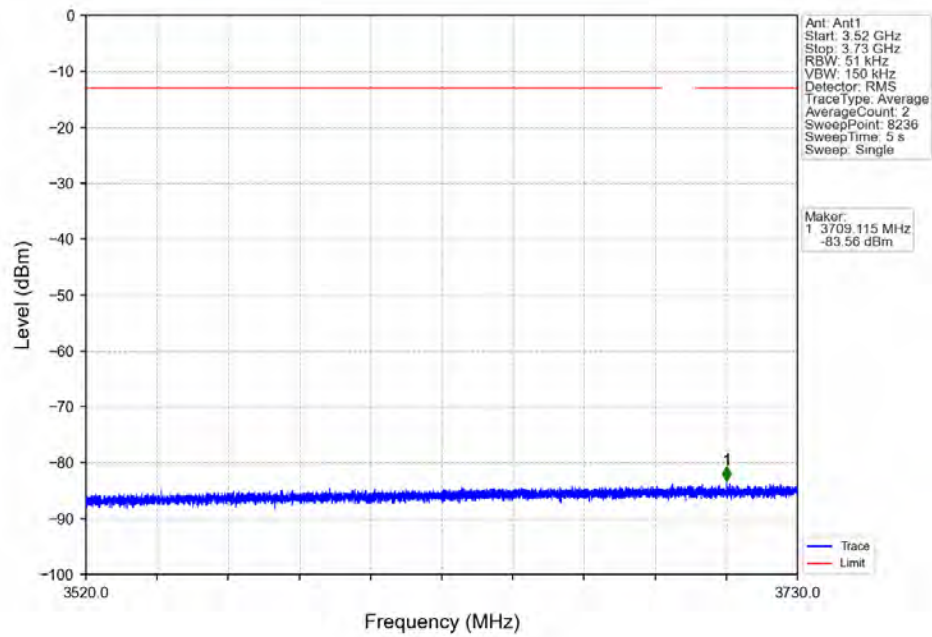
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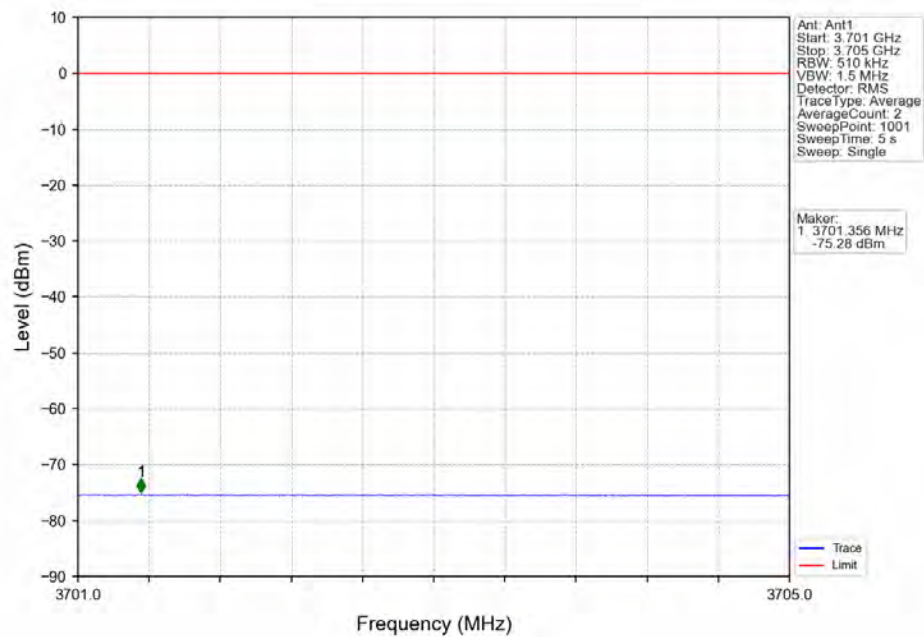
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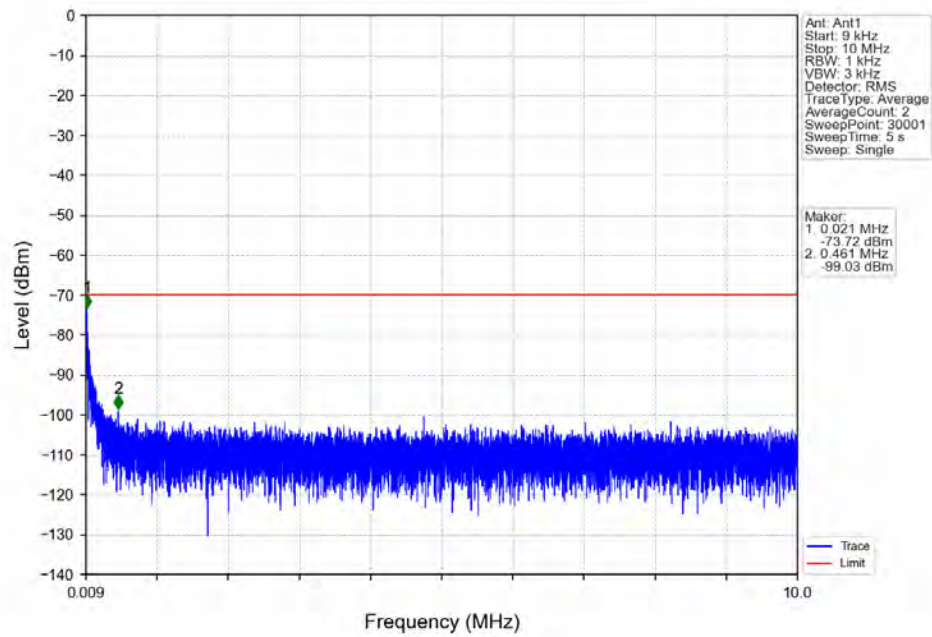
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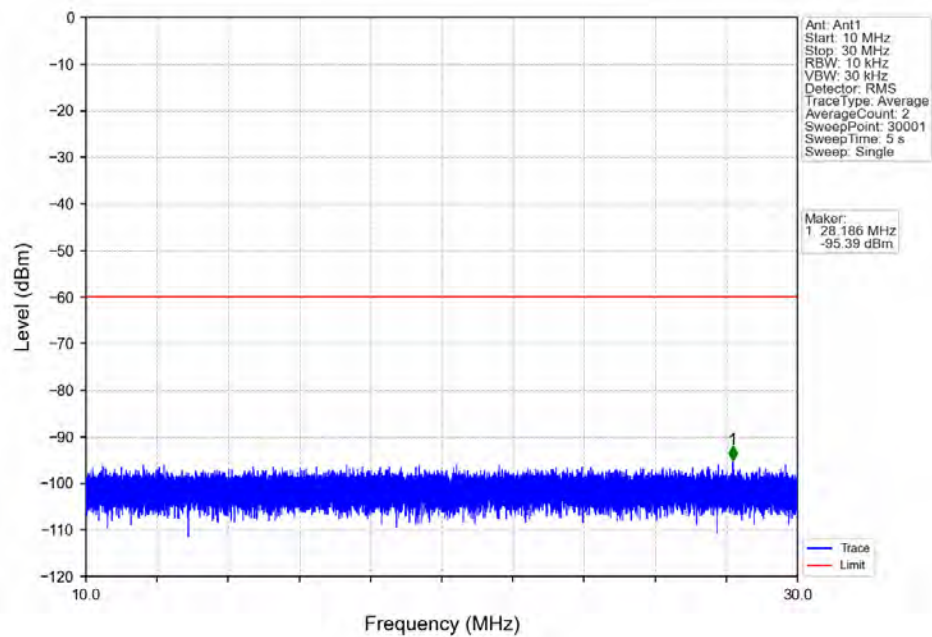
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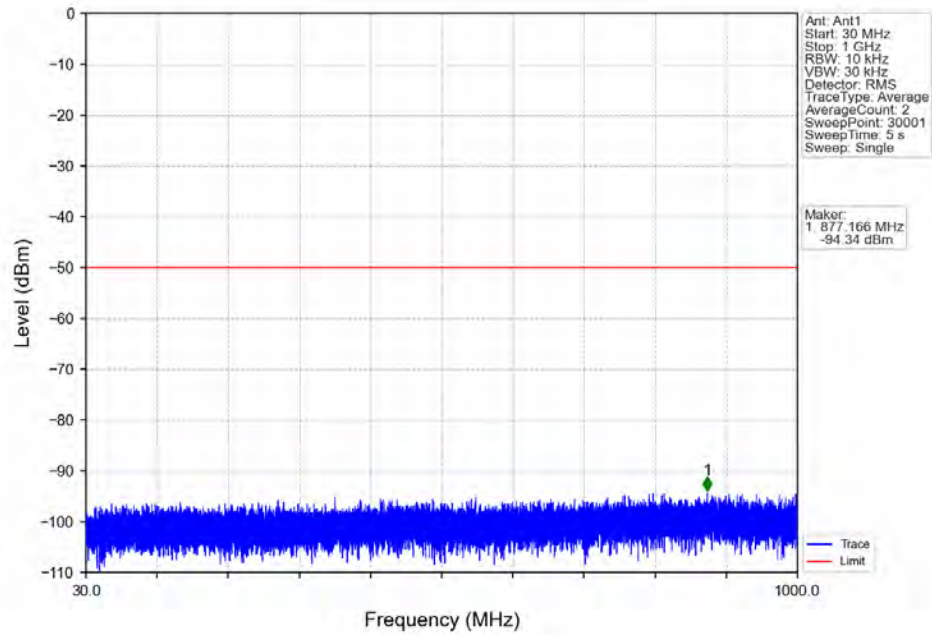
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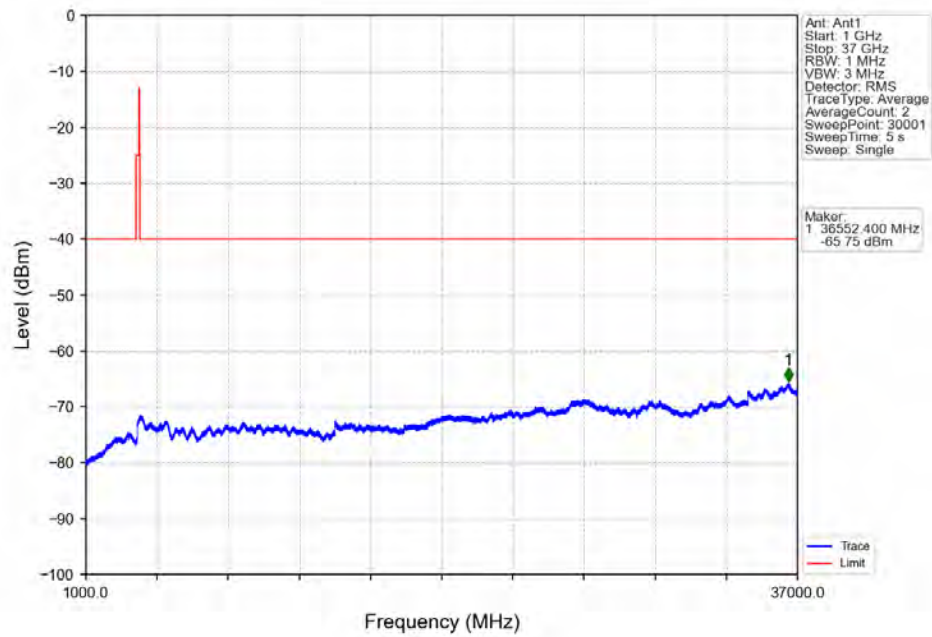
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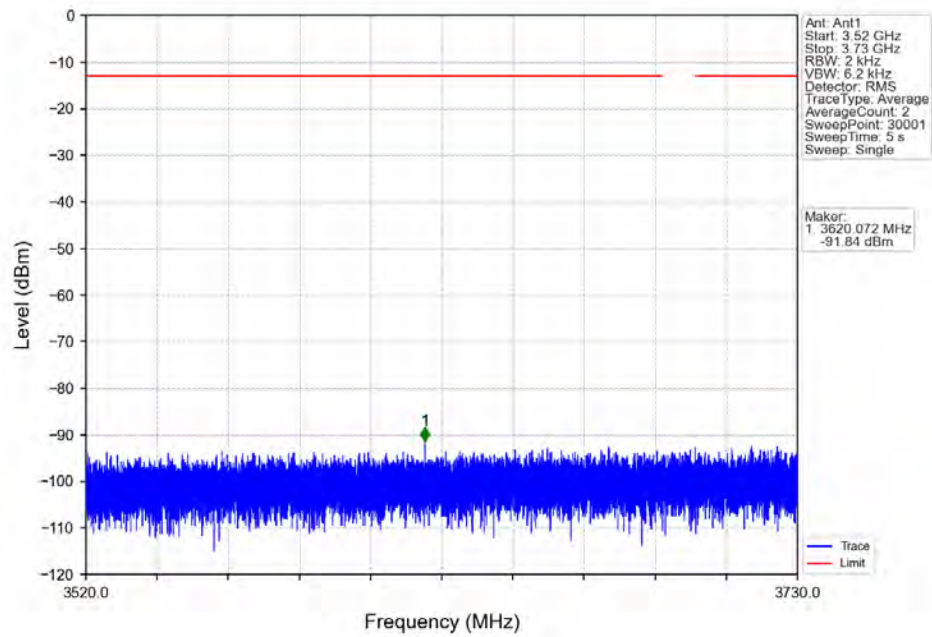
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Outer Full



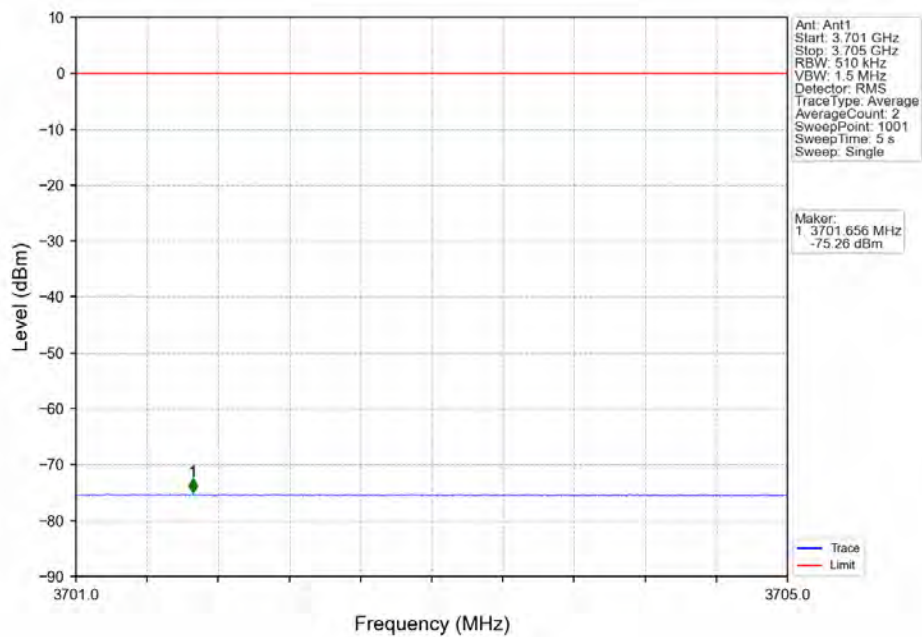
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Outer Full



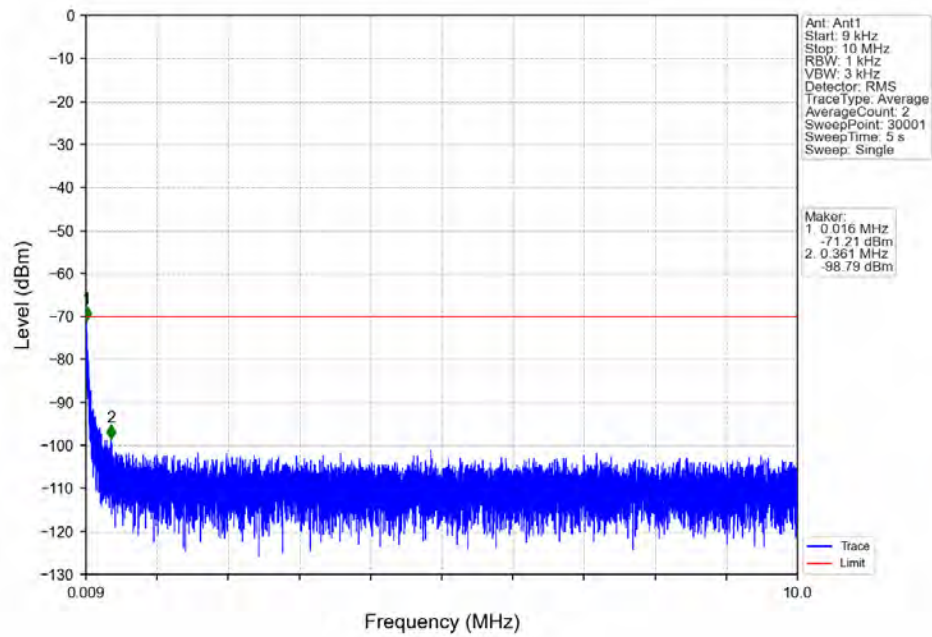
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Inner 1RB Right



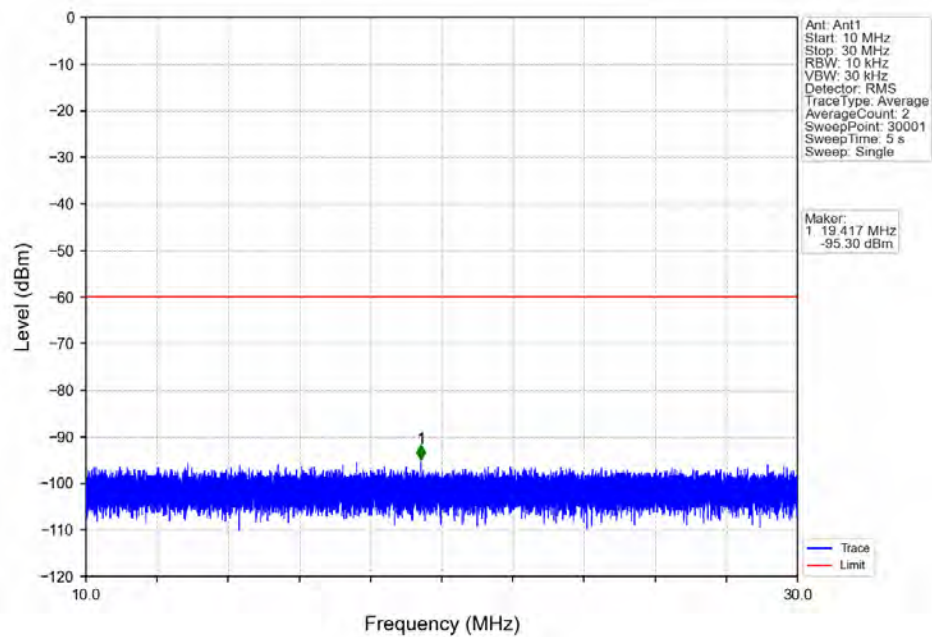
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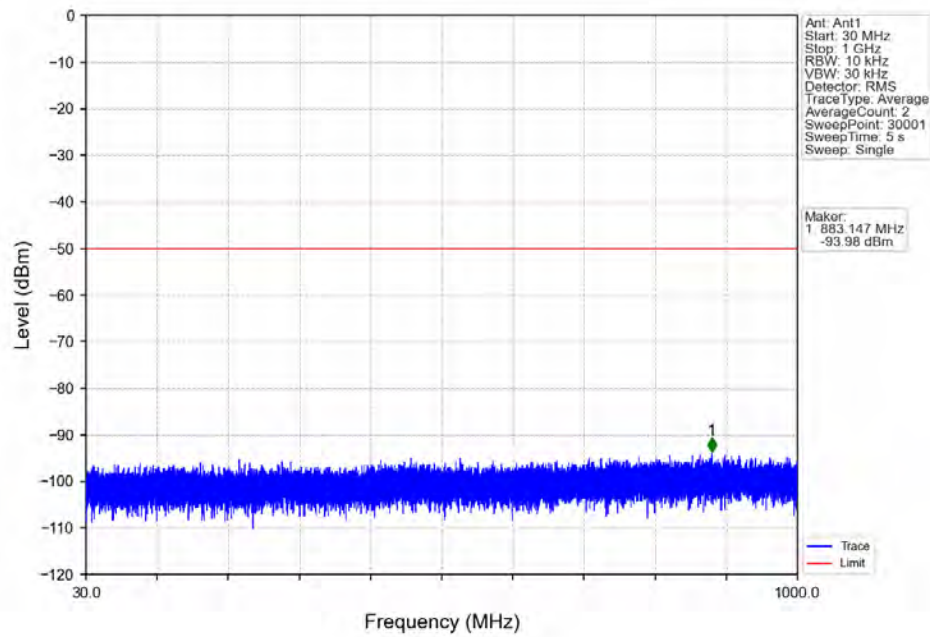
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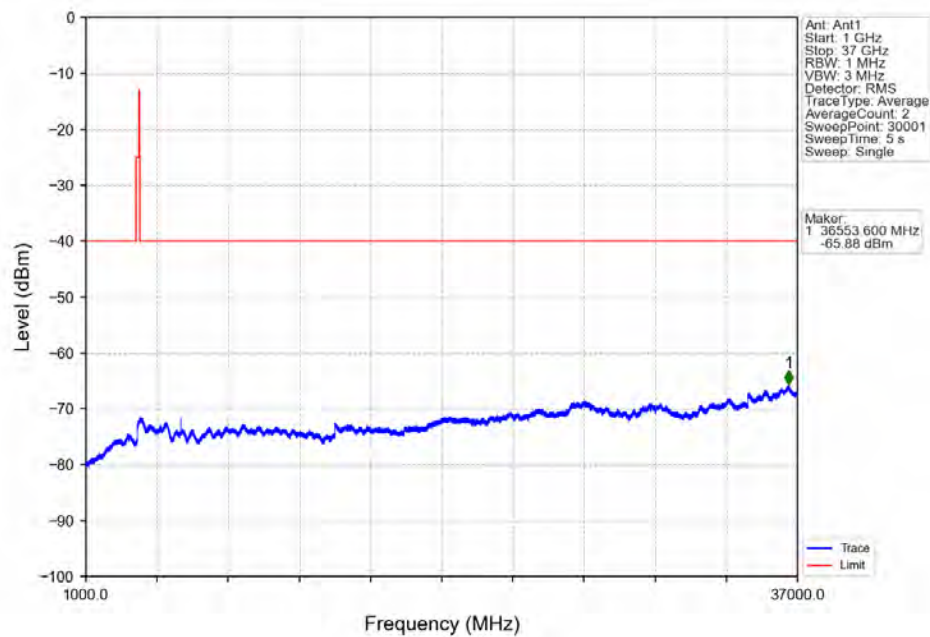
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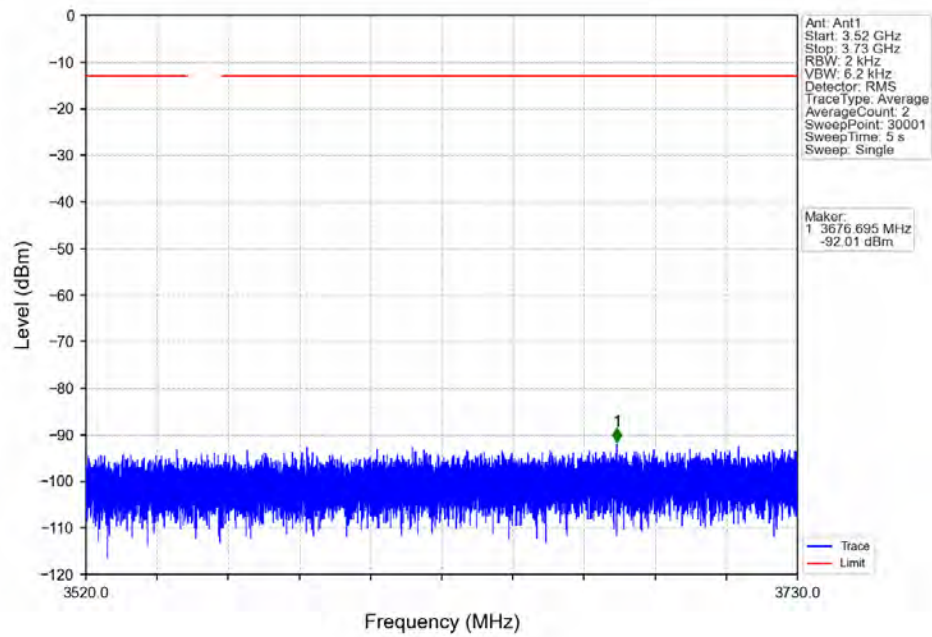
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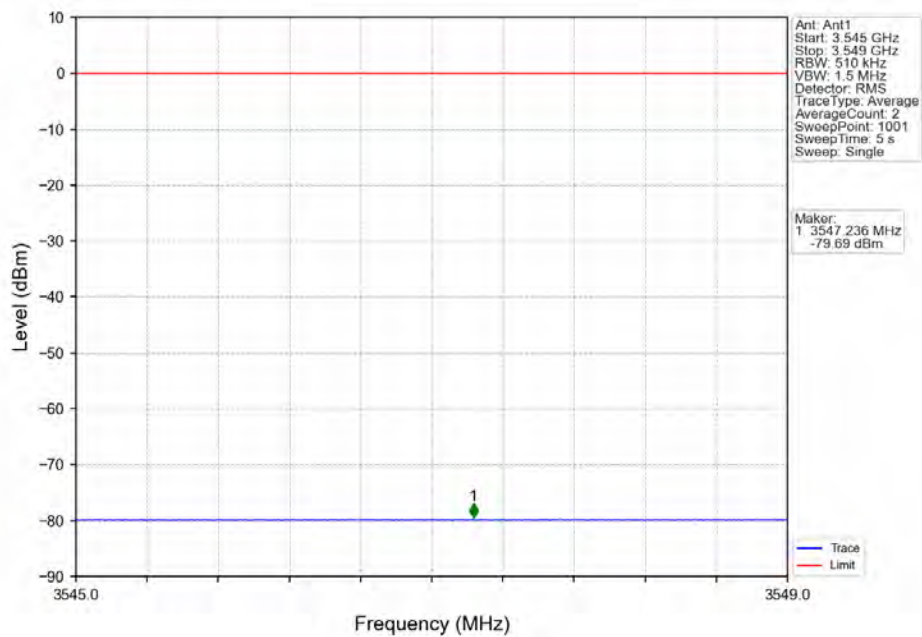
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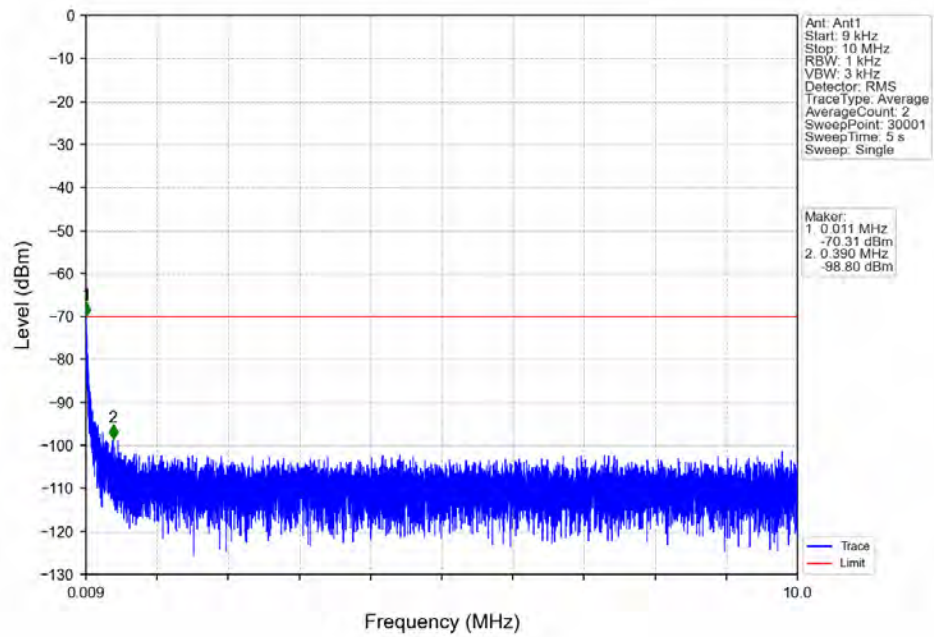
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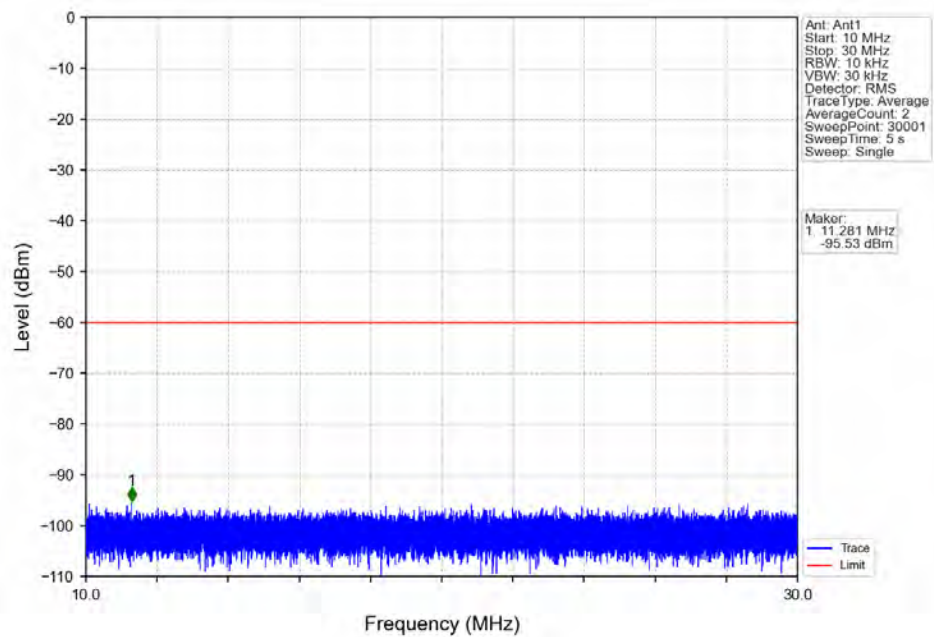
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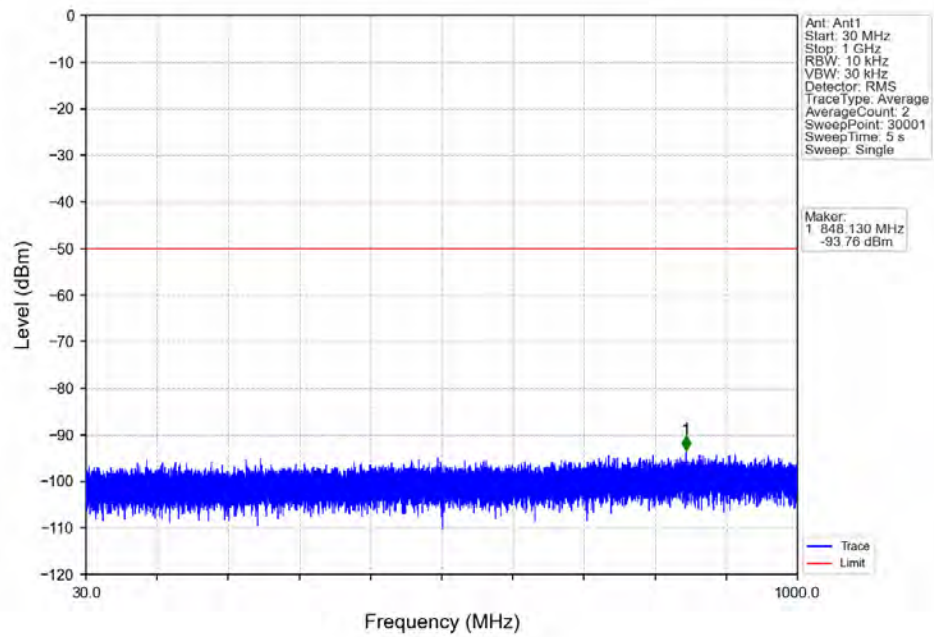
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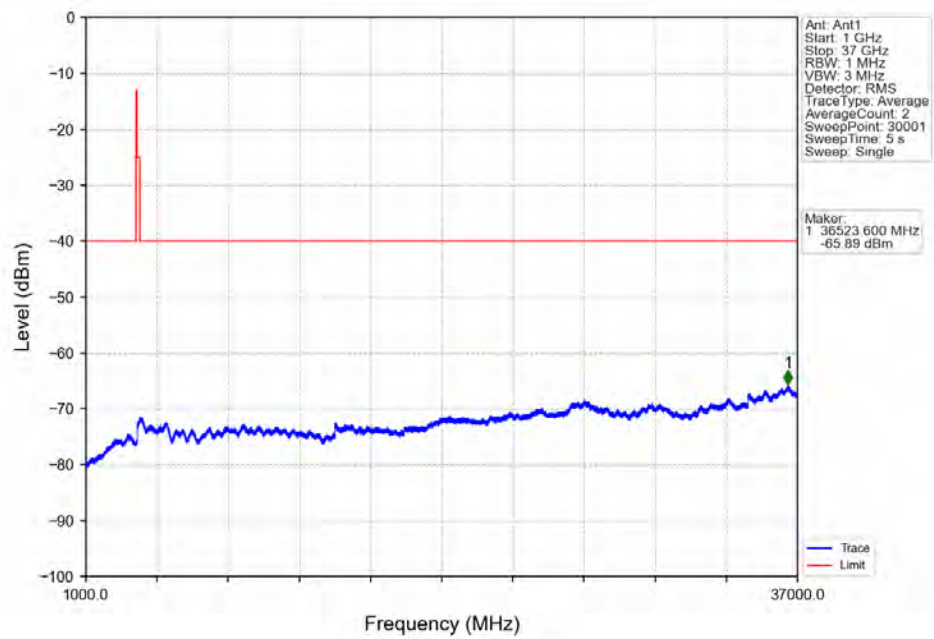
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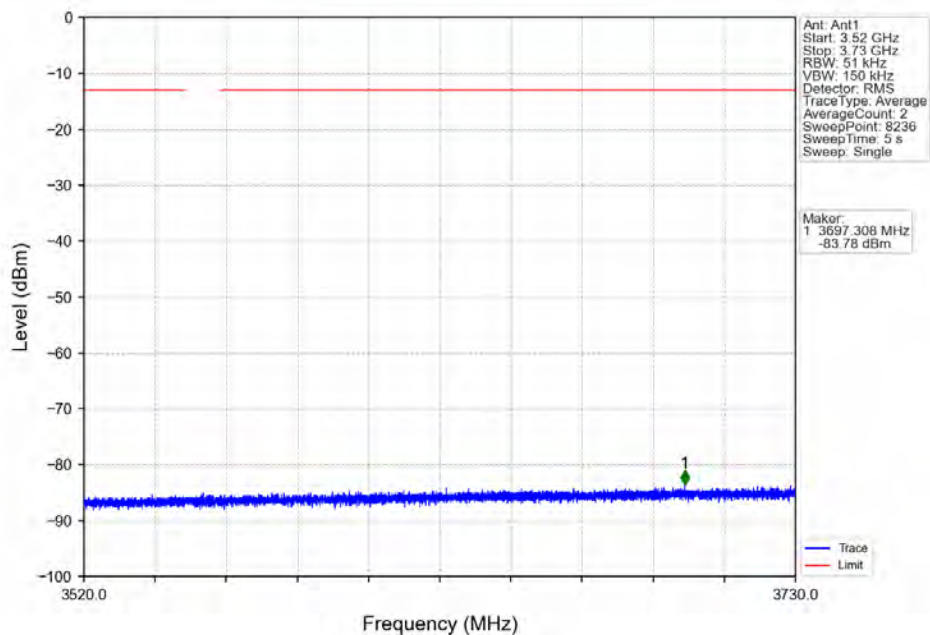
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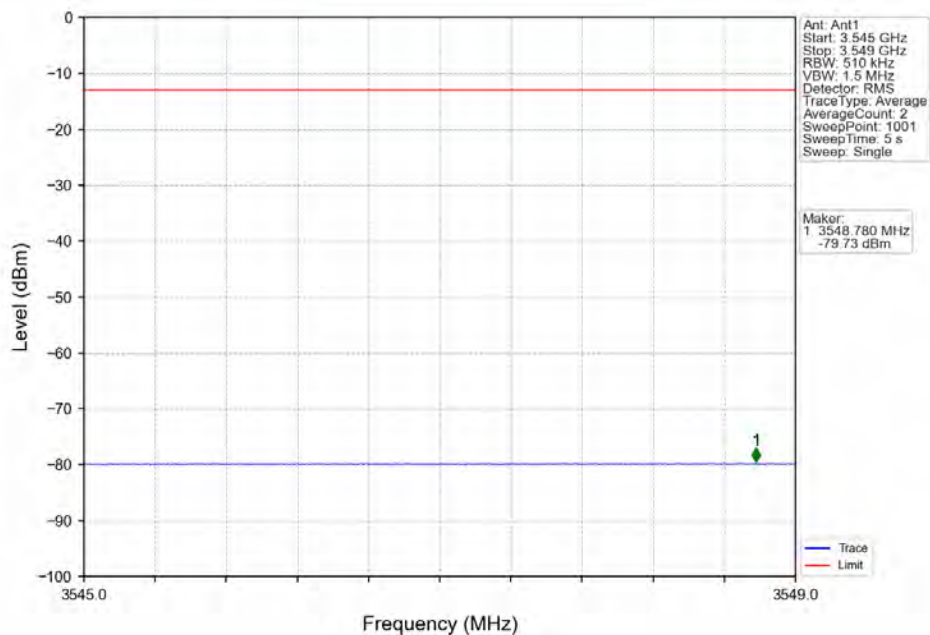
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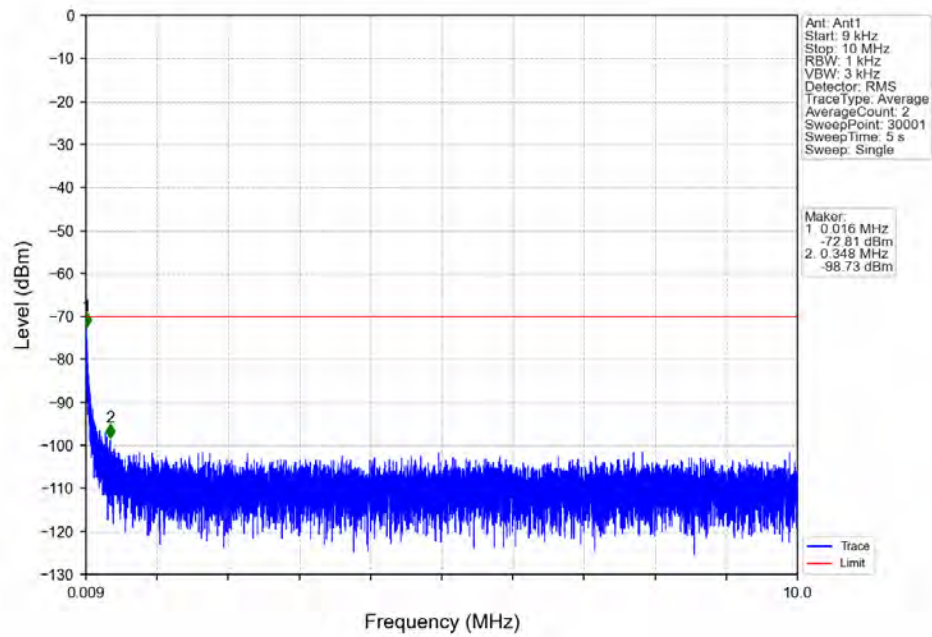
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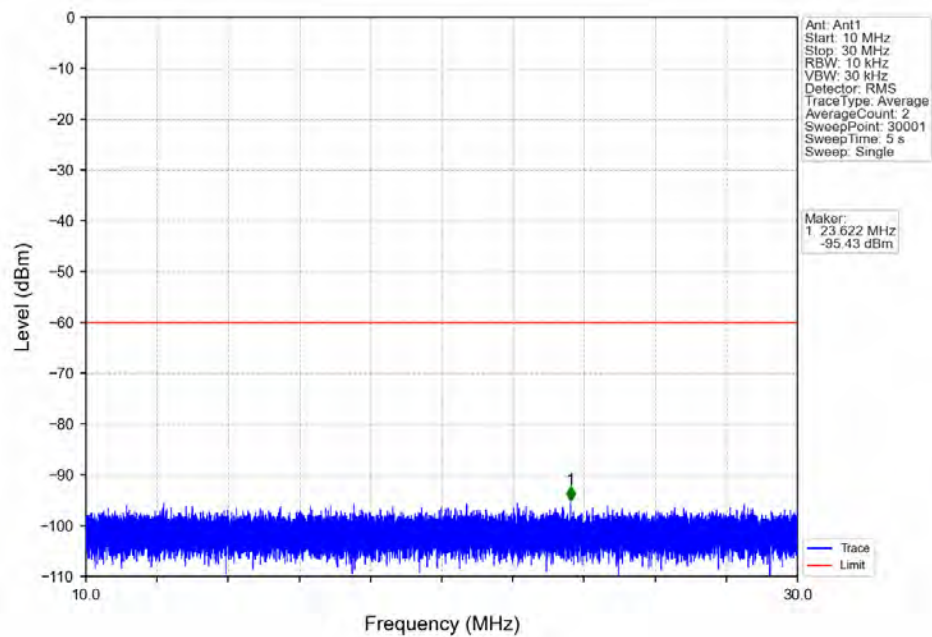
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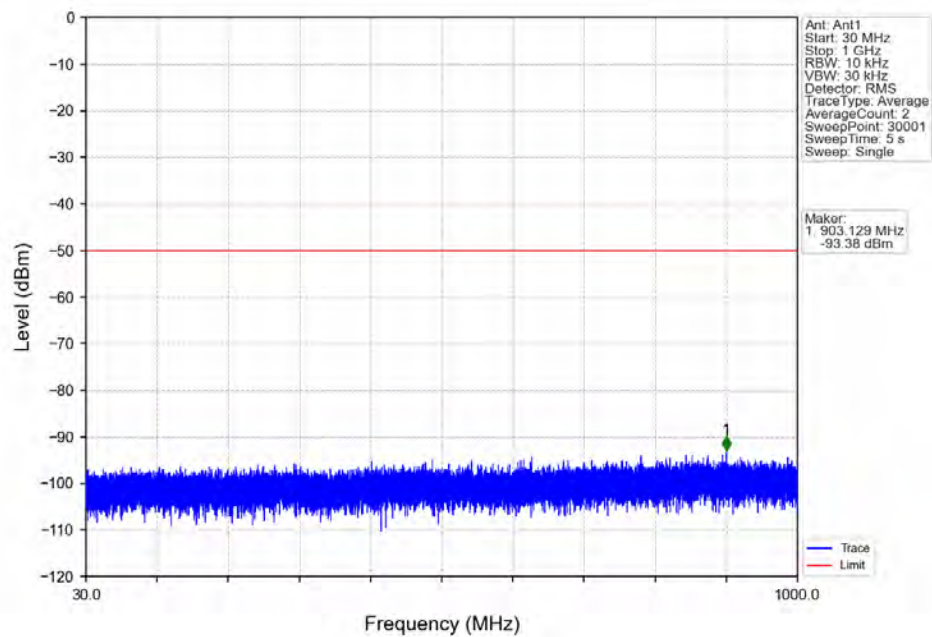
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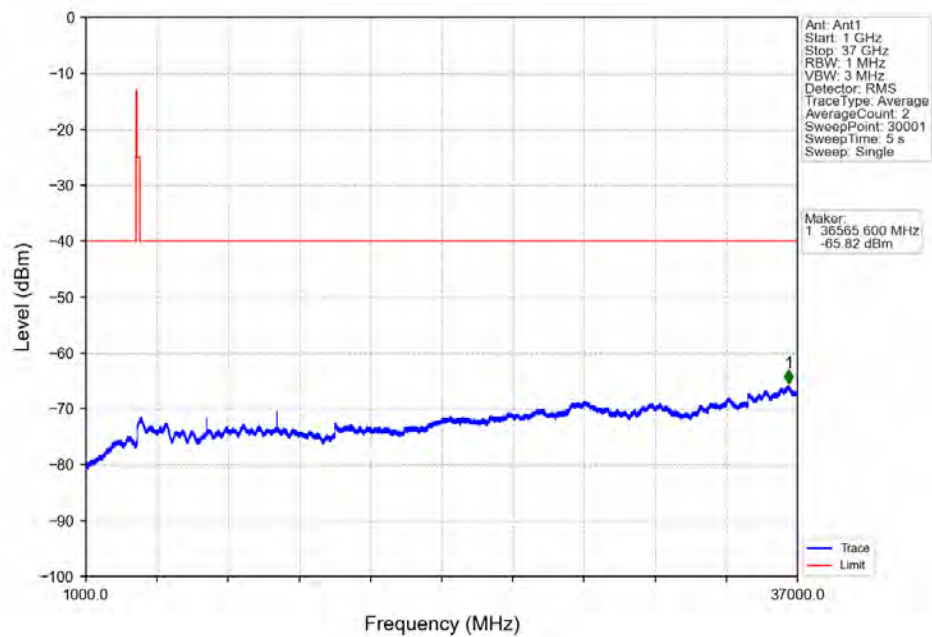
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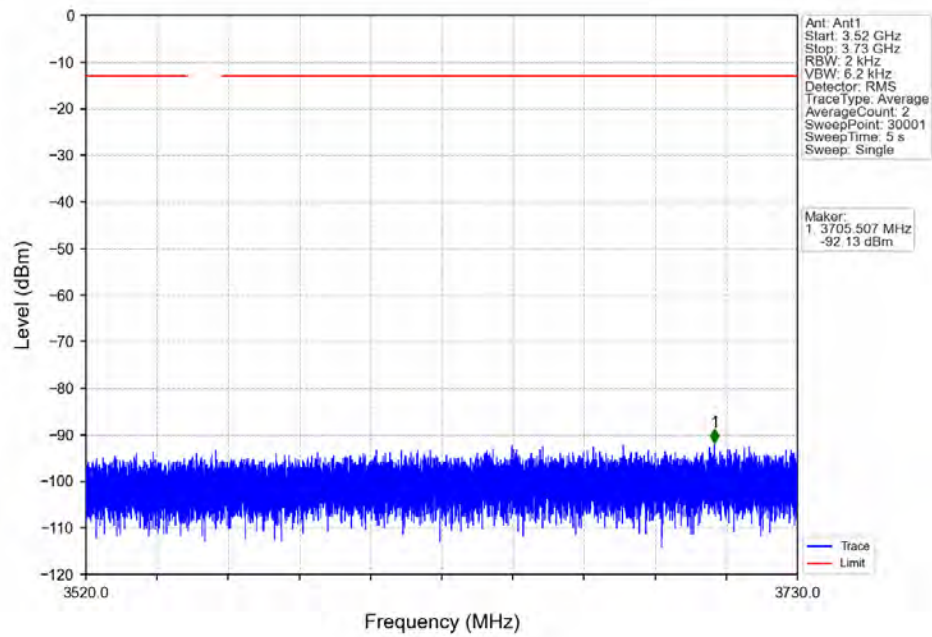
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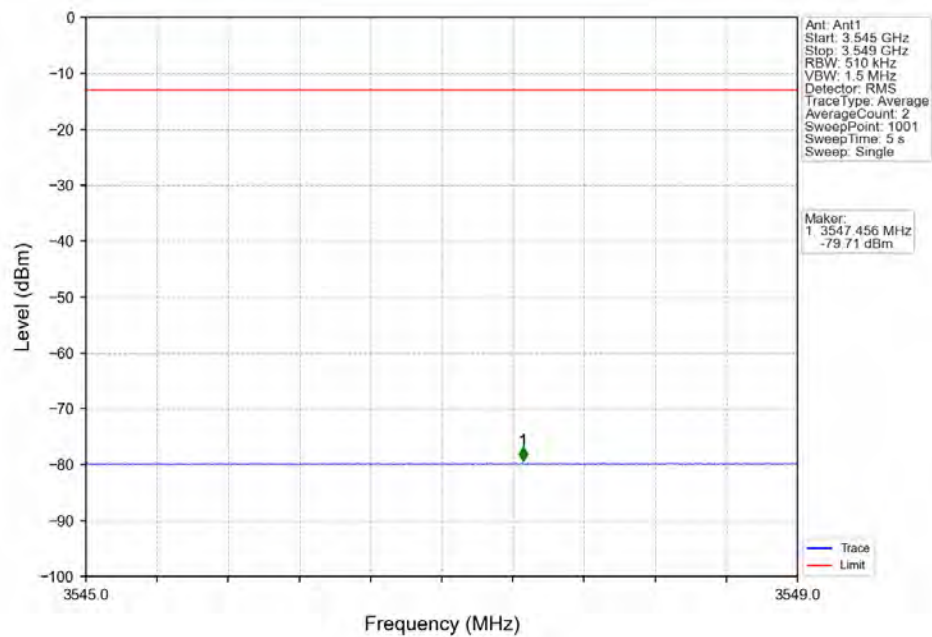
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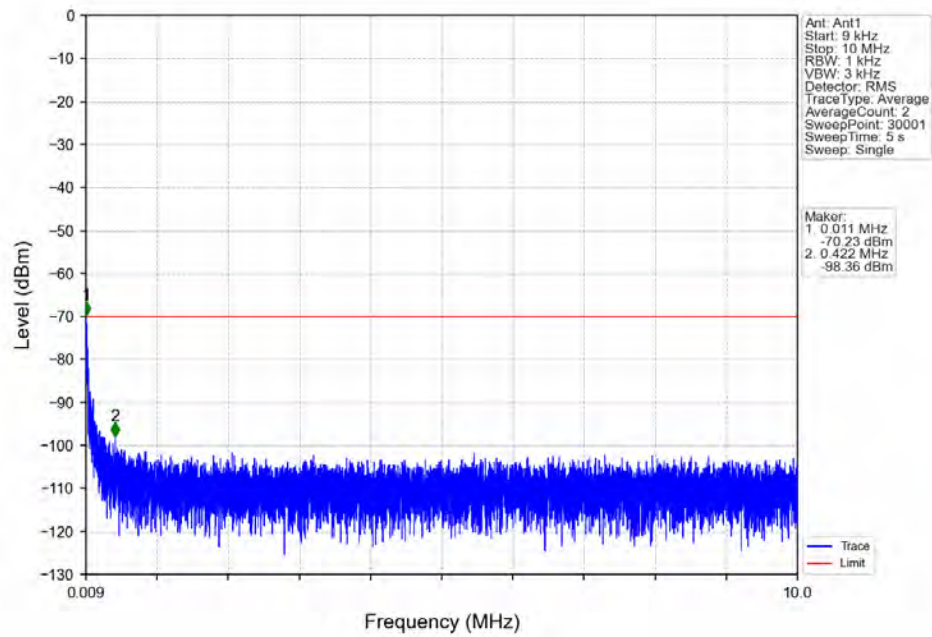
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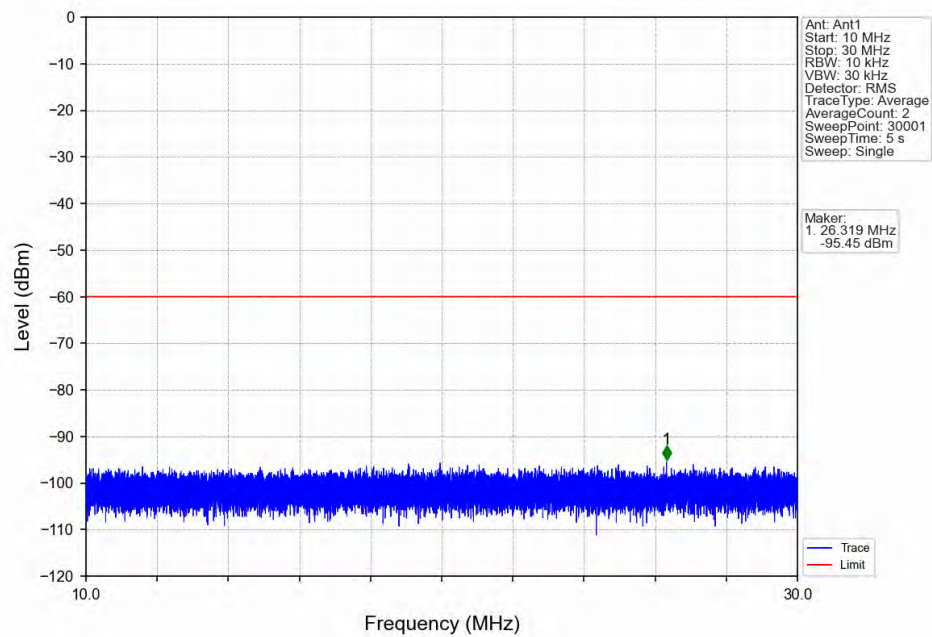
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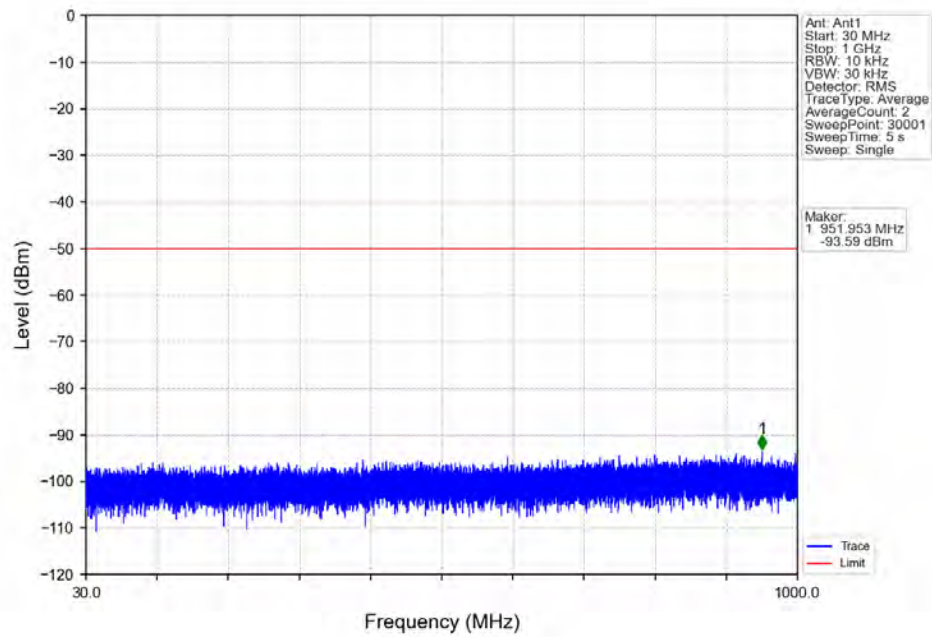
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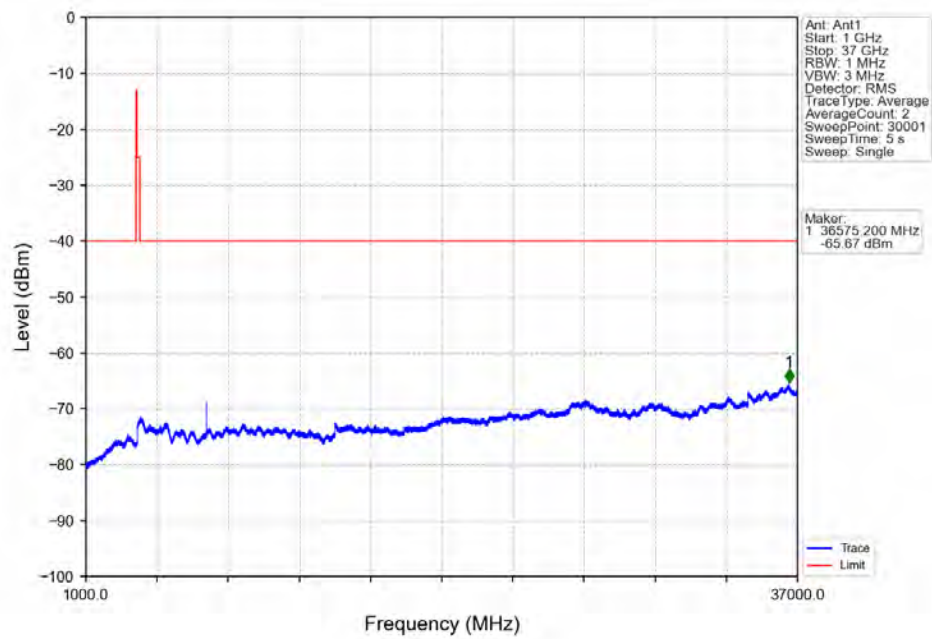
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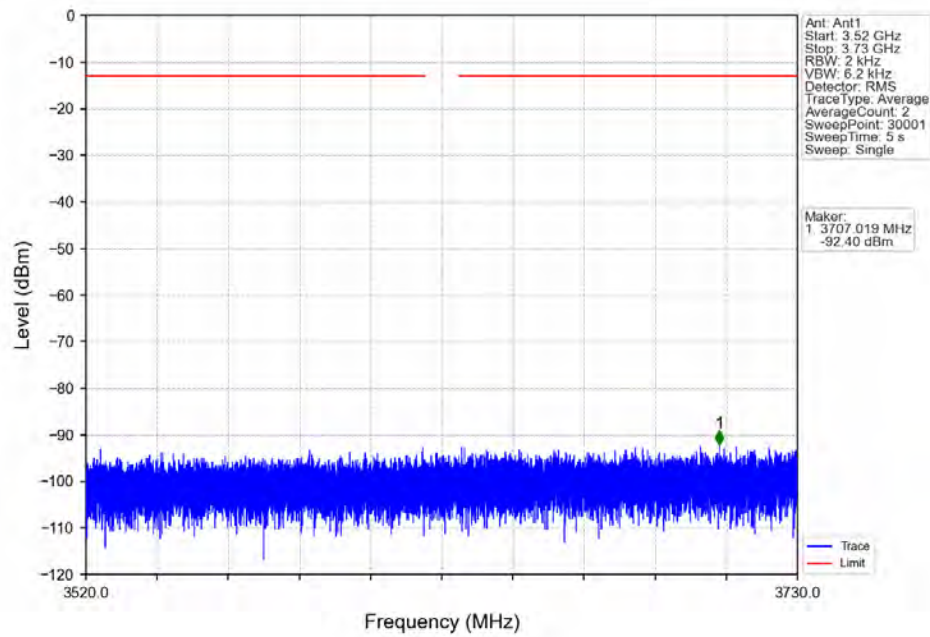
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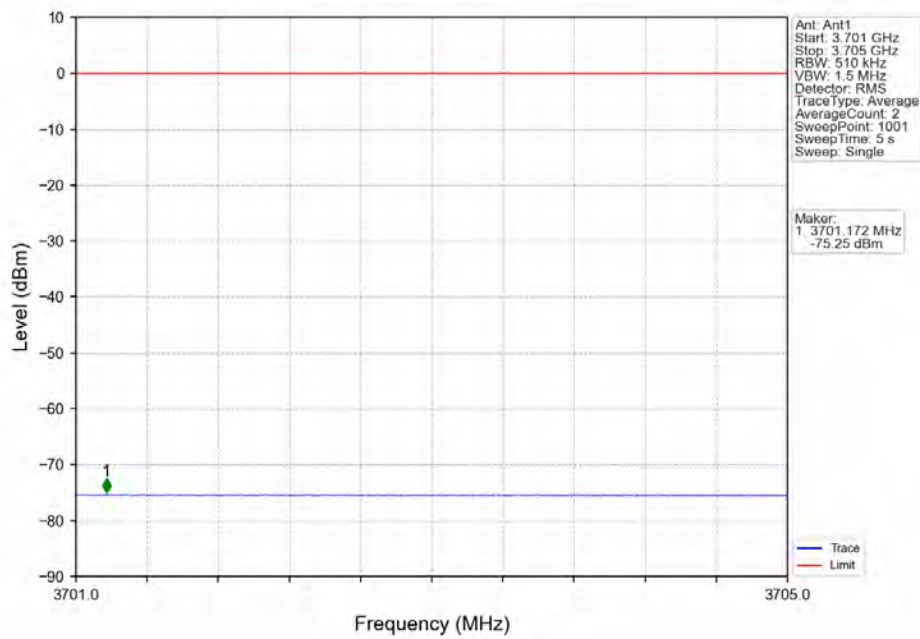
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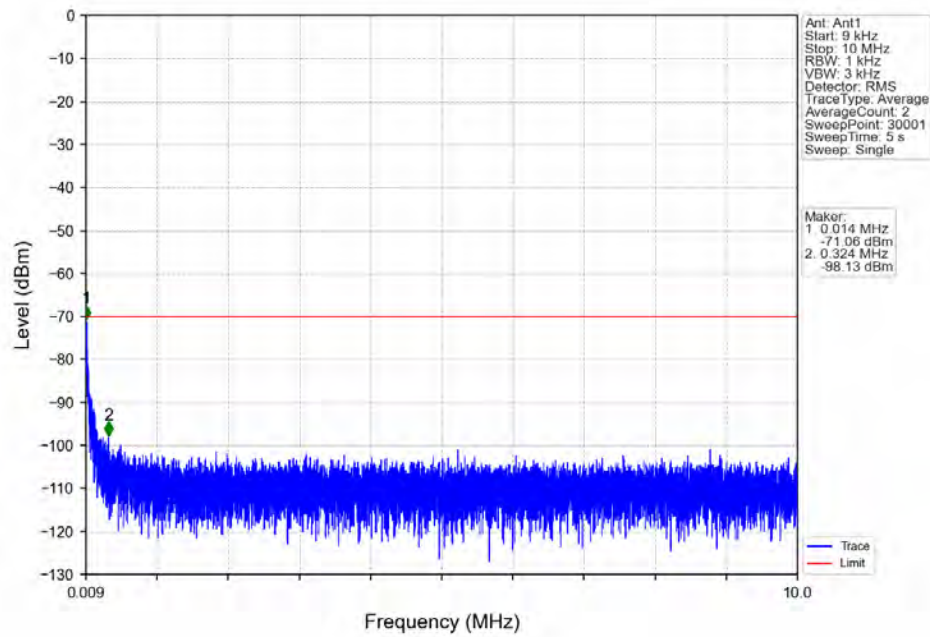
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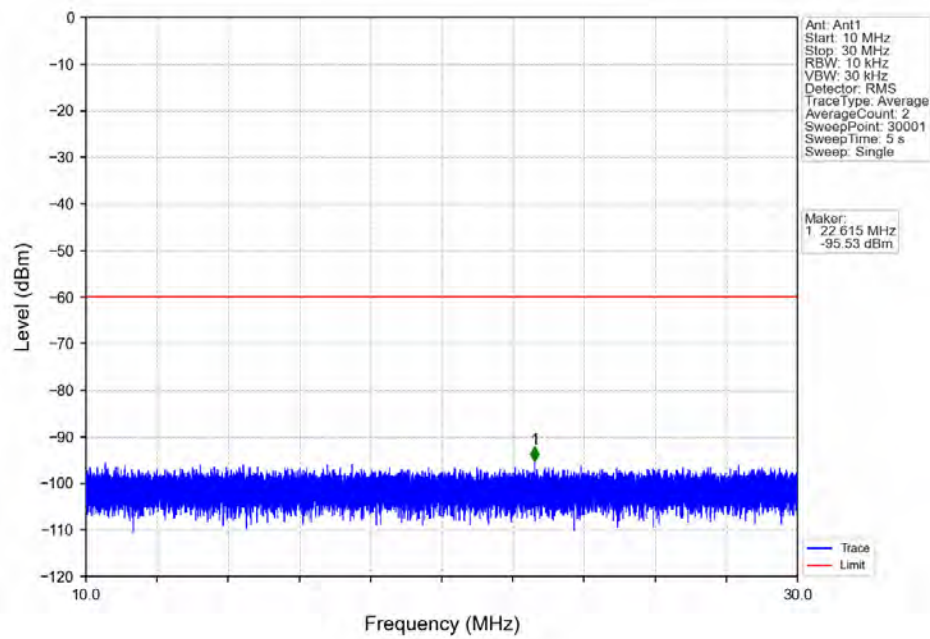
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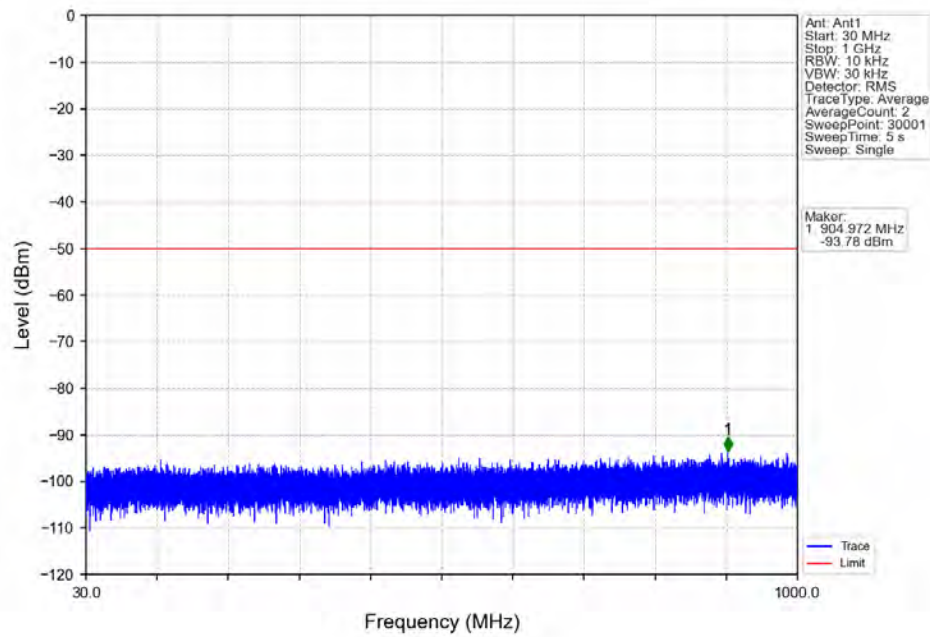
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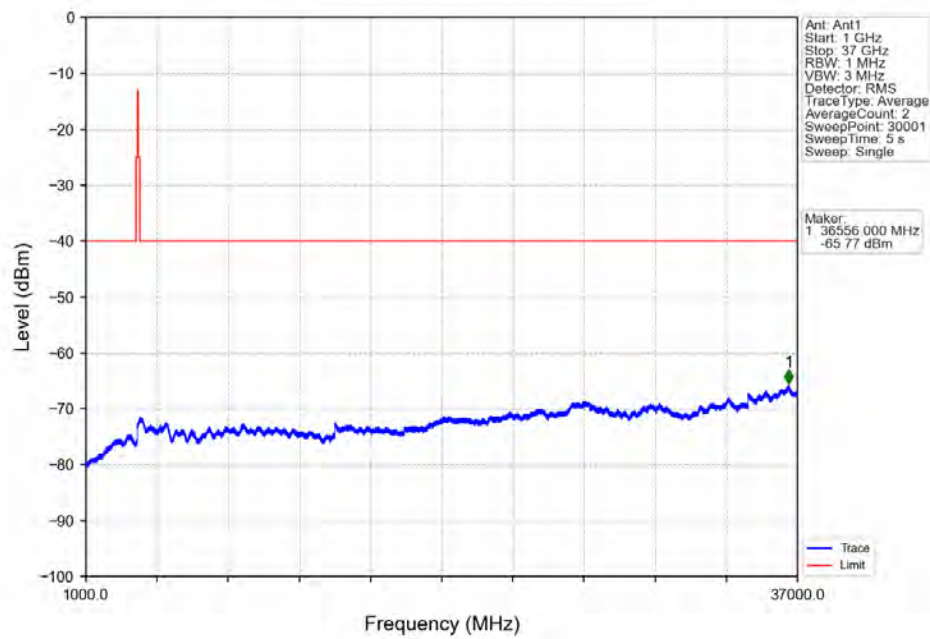
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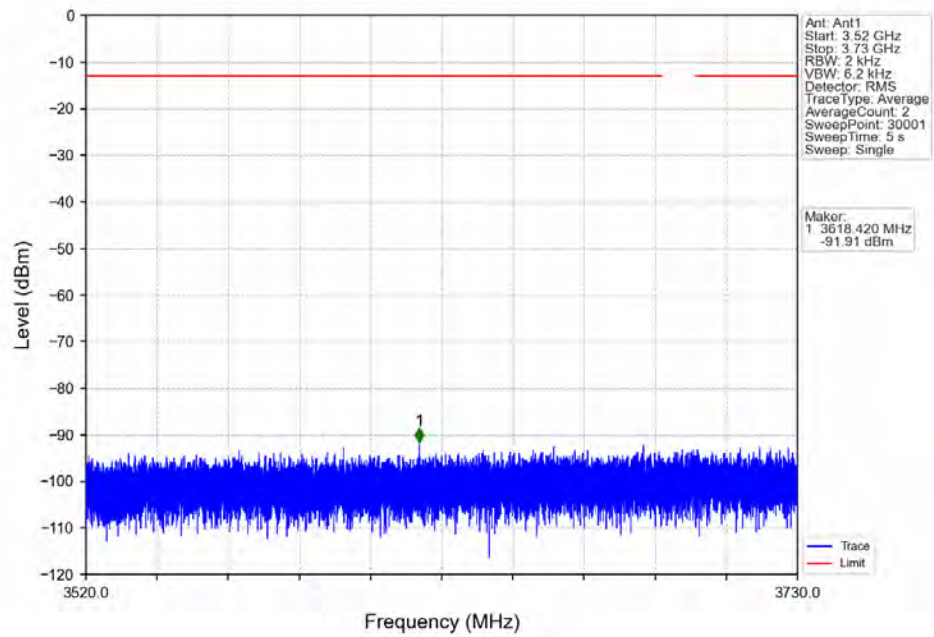
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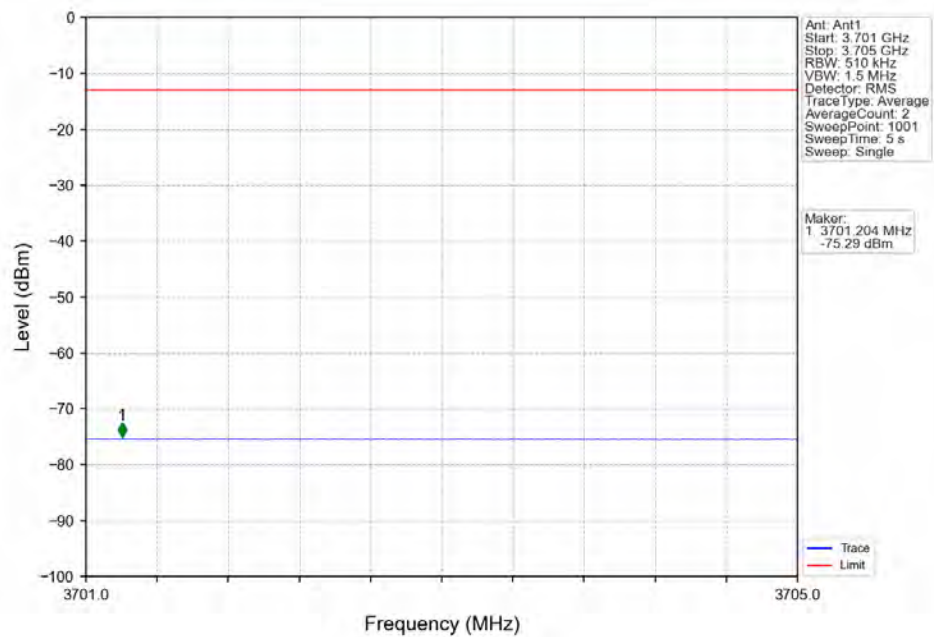
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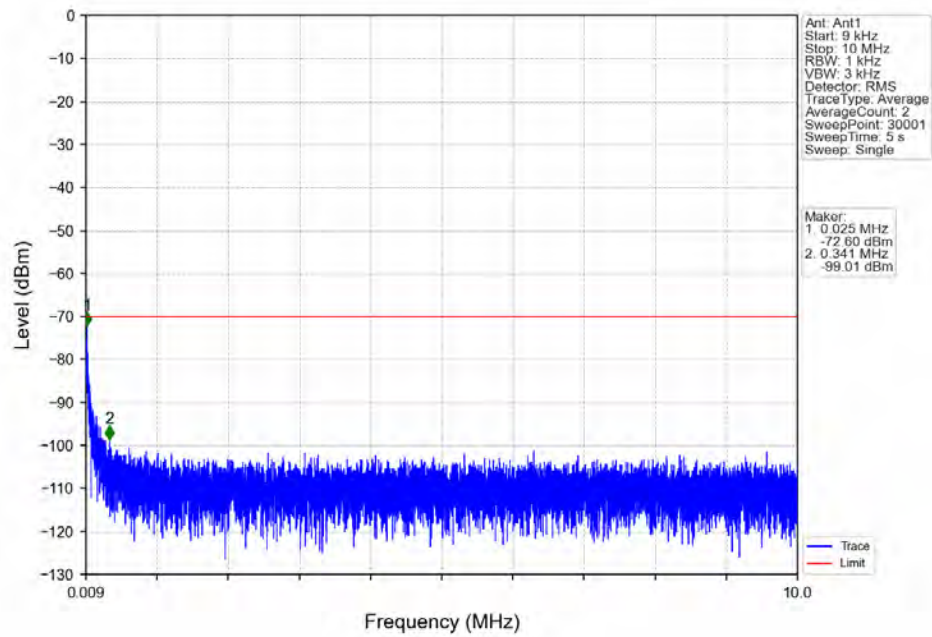
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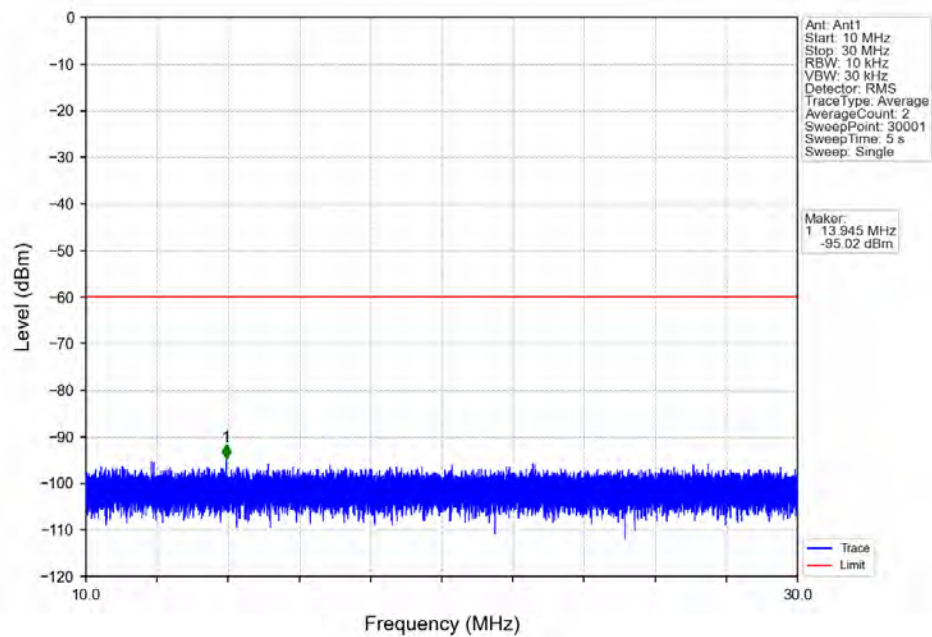
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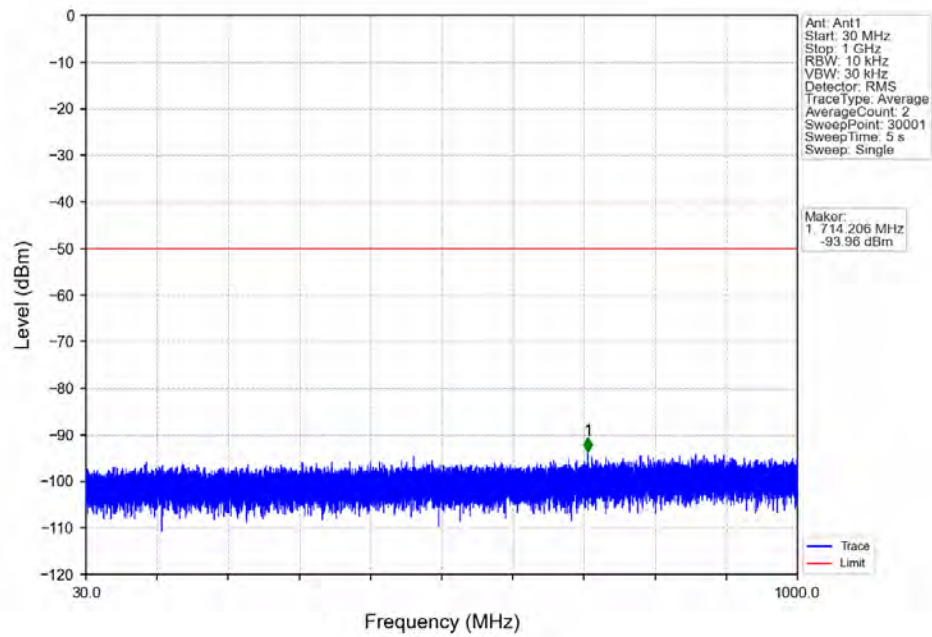
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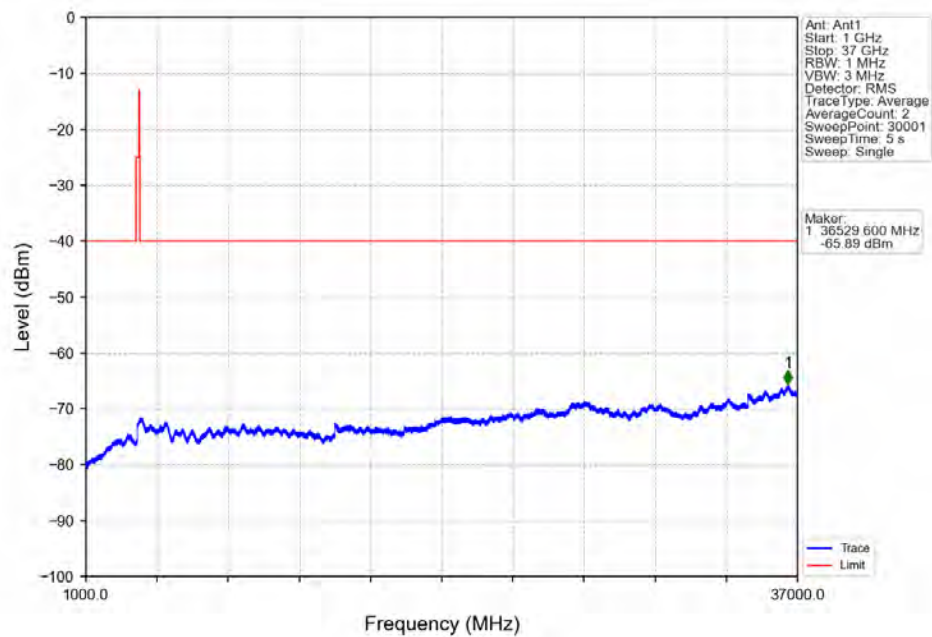
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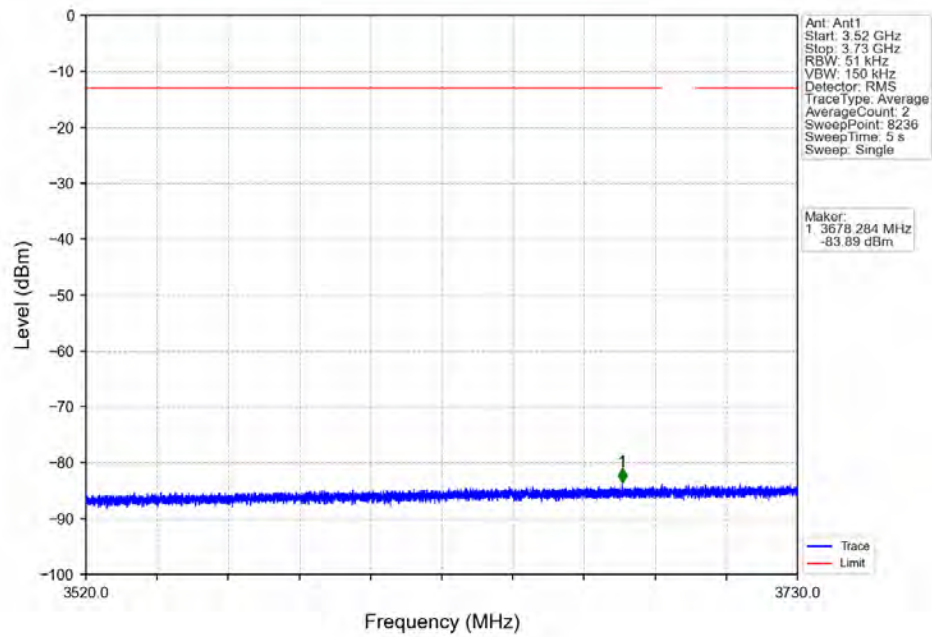
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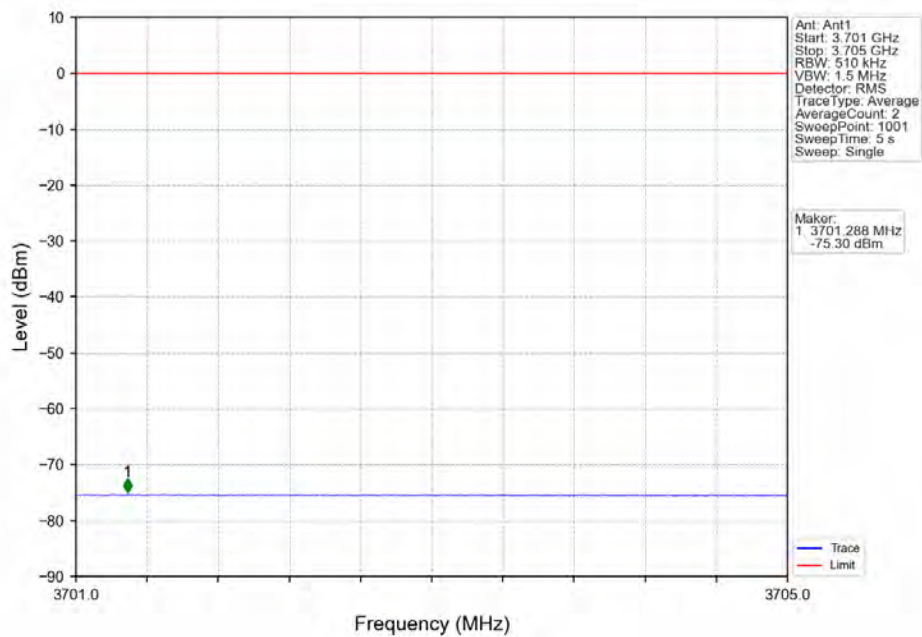
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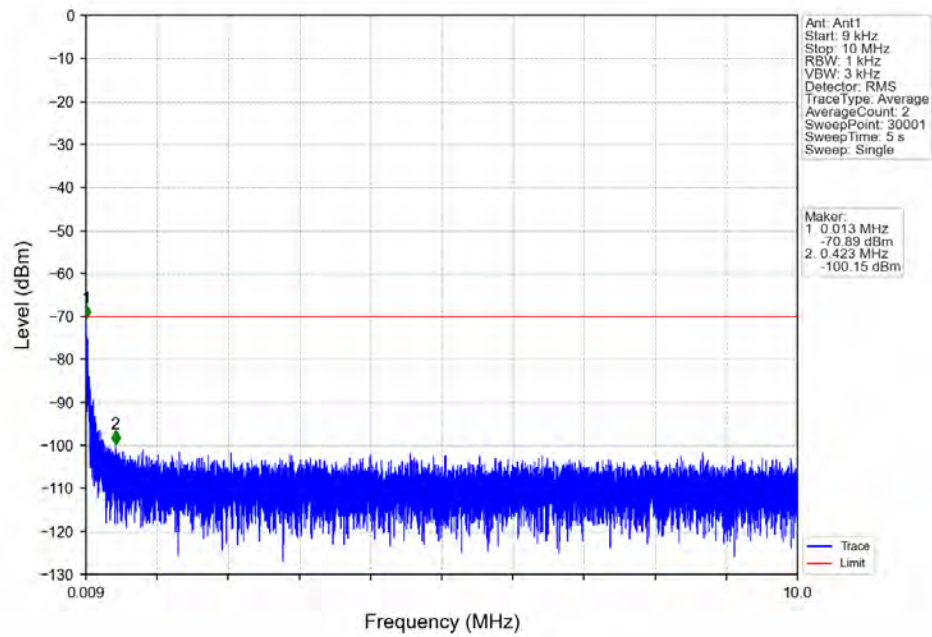
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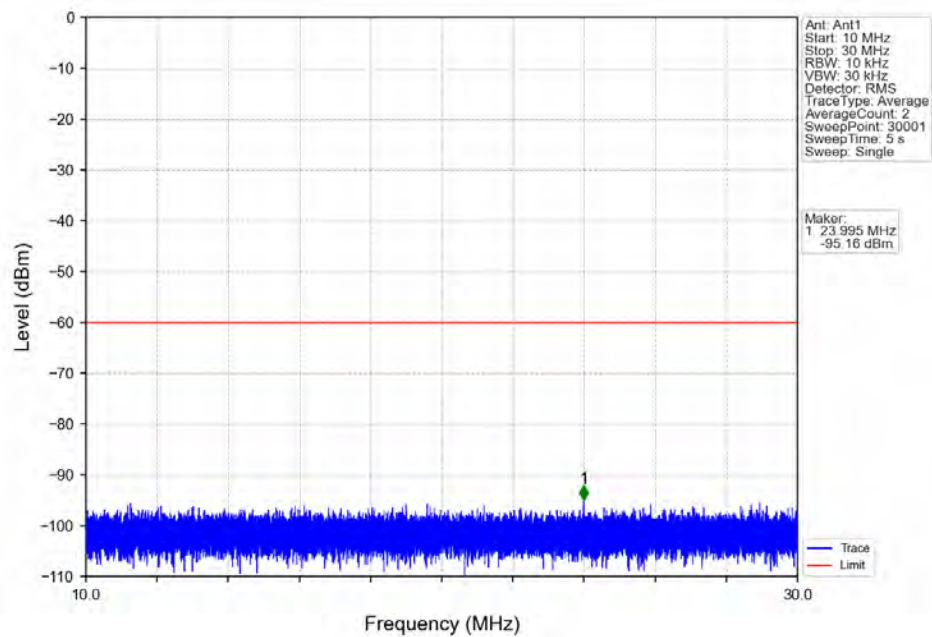
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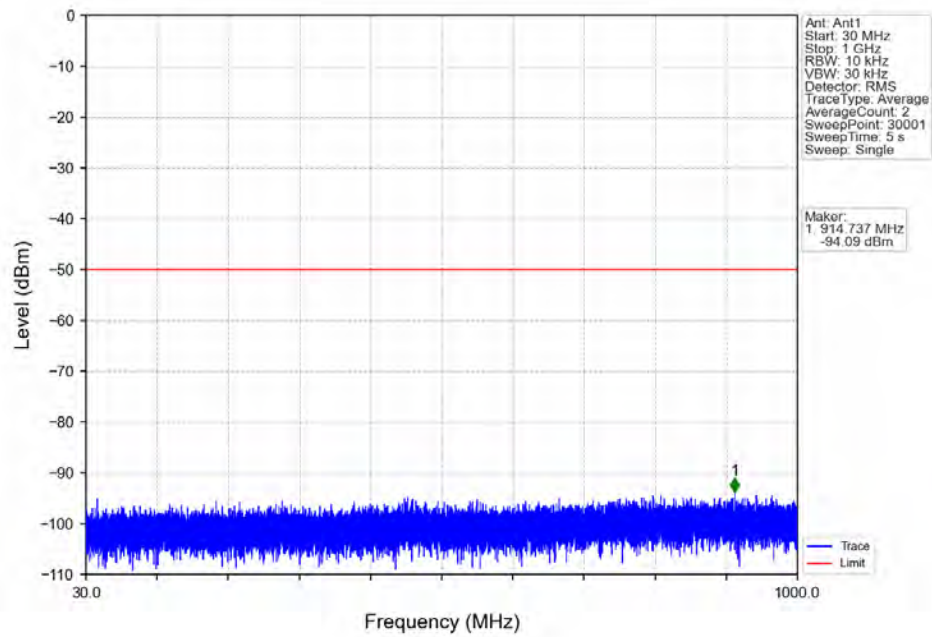
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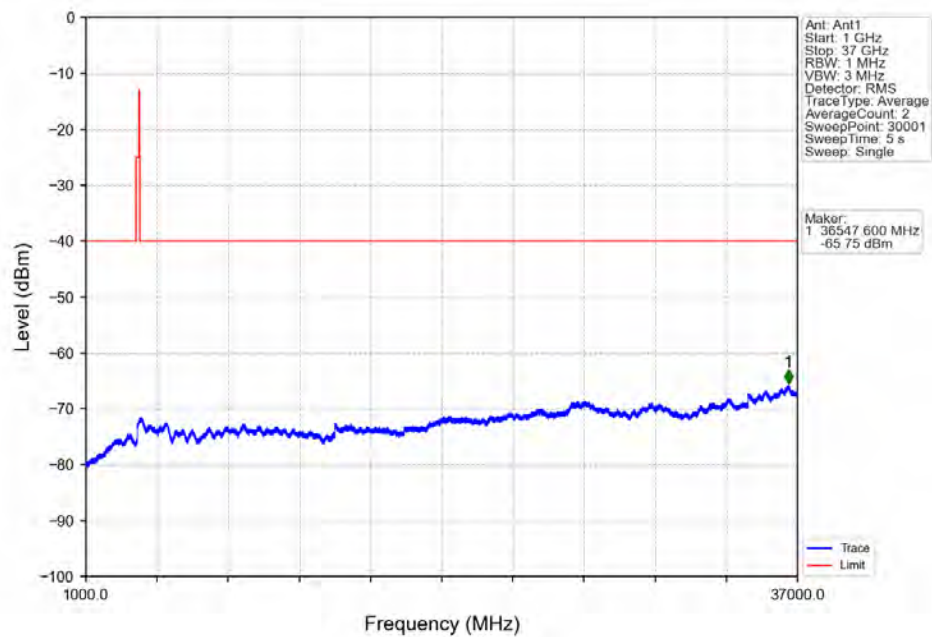
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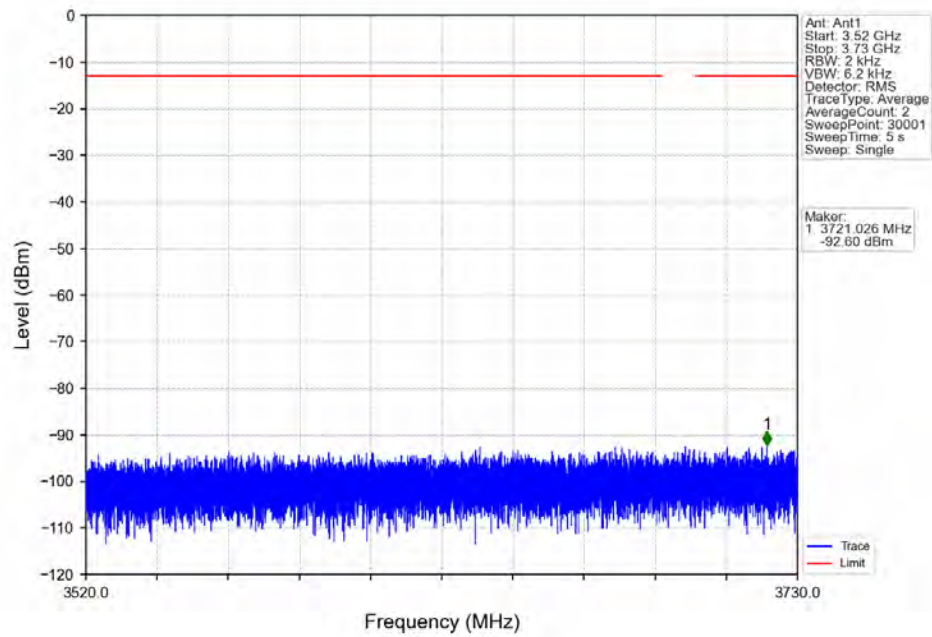
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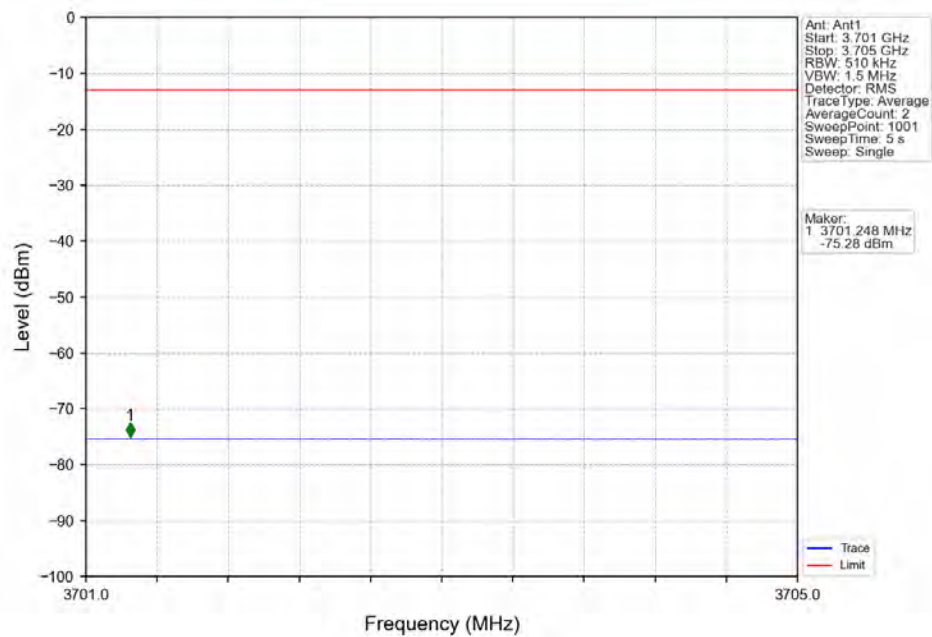
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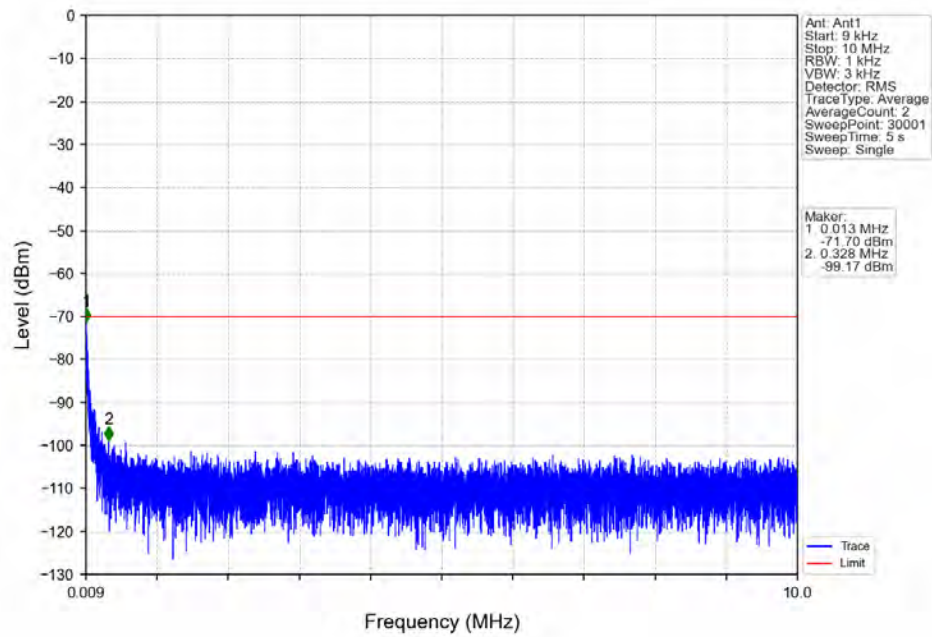
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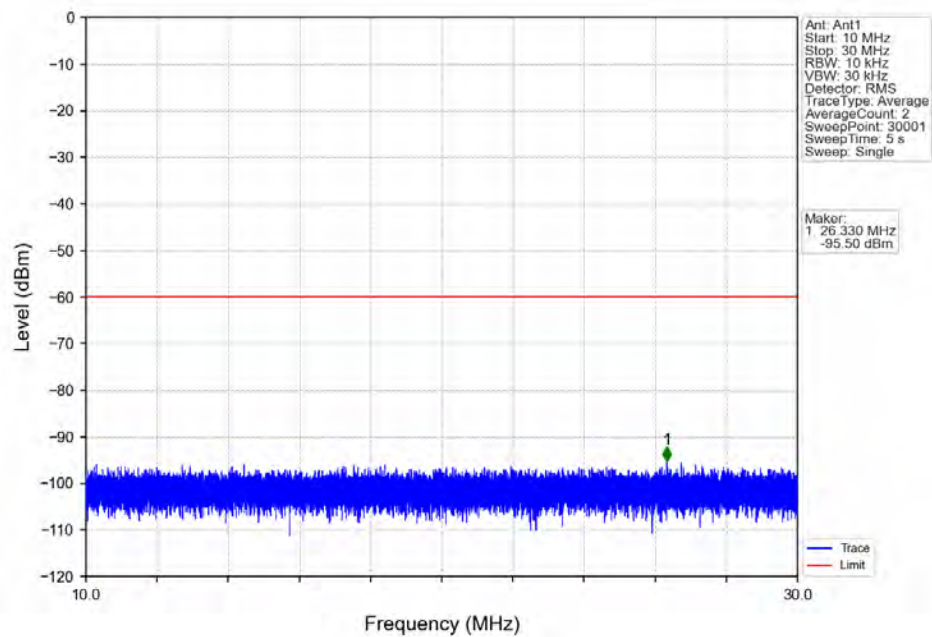
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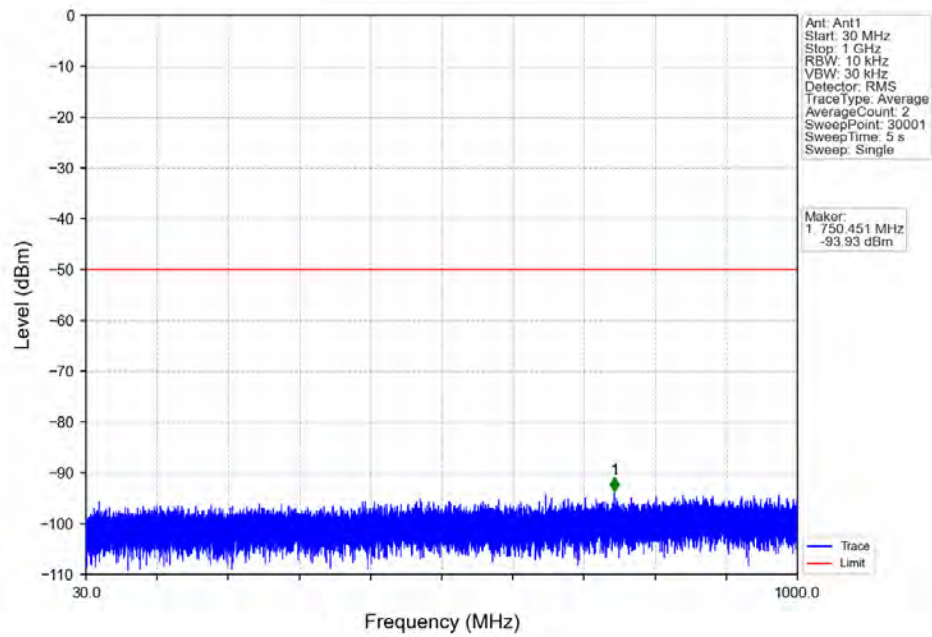
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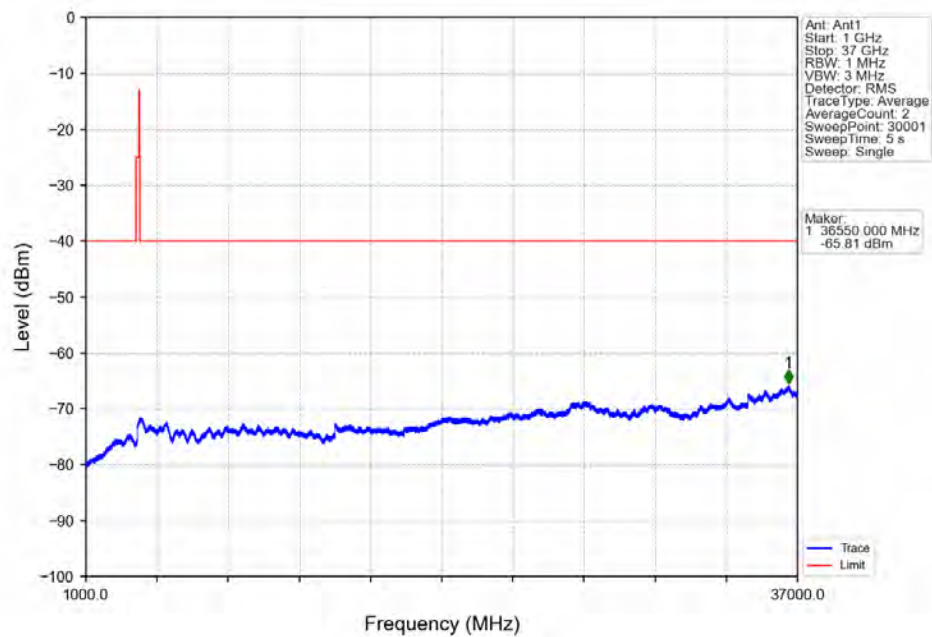
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n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Inner 1RB Right



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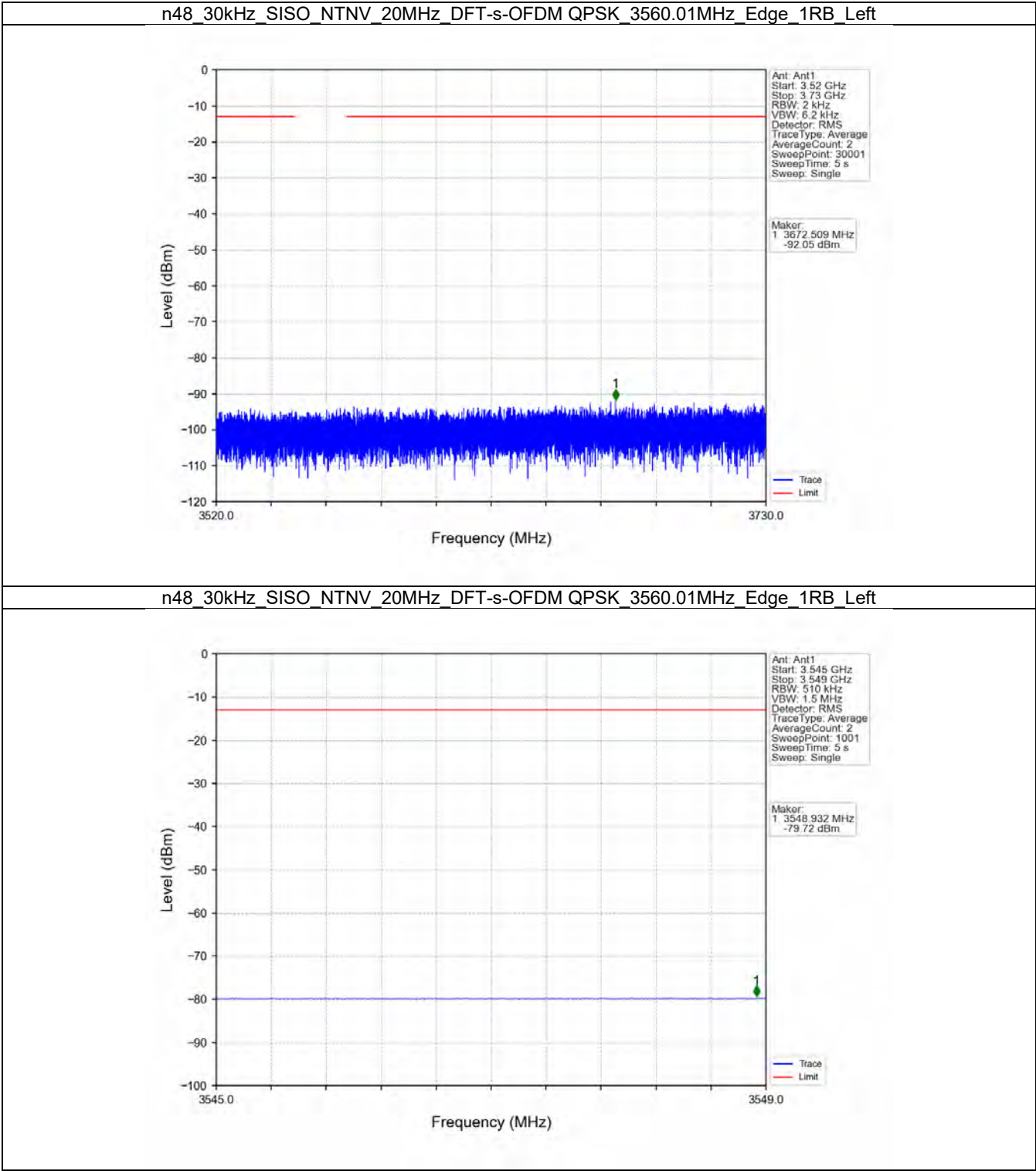


1.2 30k_SISO_20MHz_NTNV

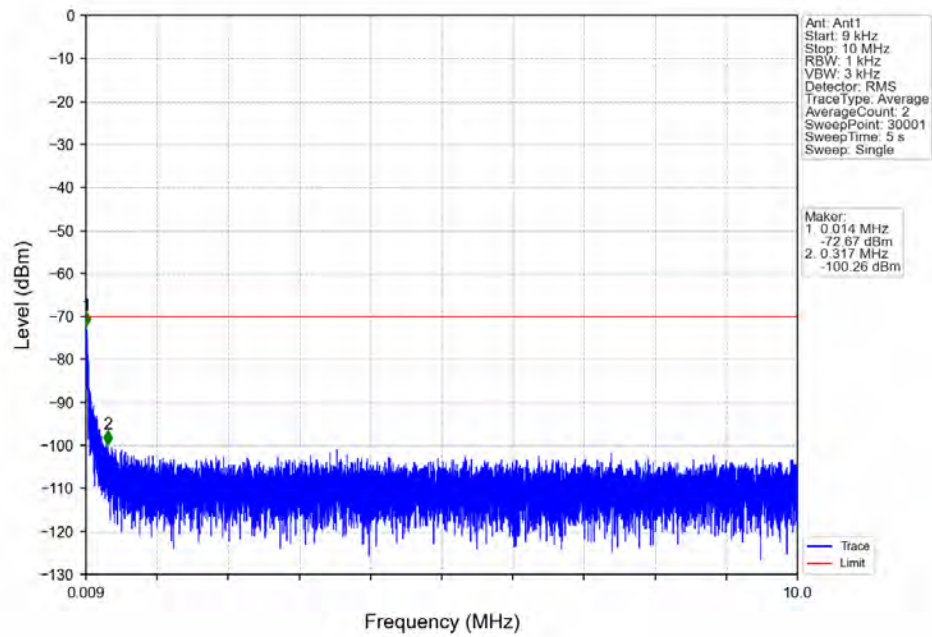
1.2.1 Test Result

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	

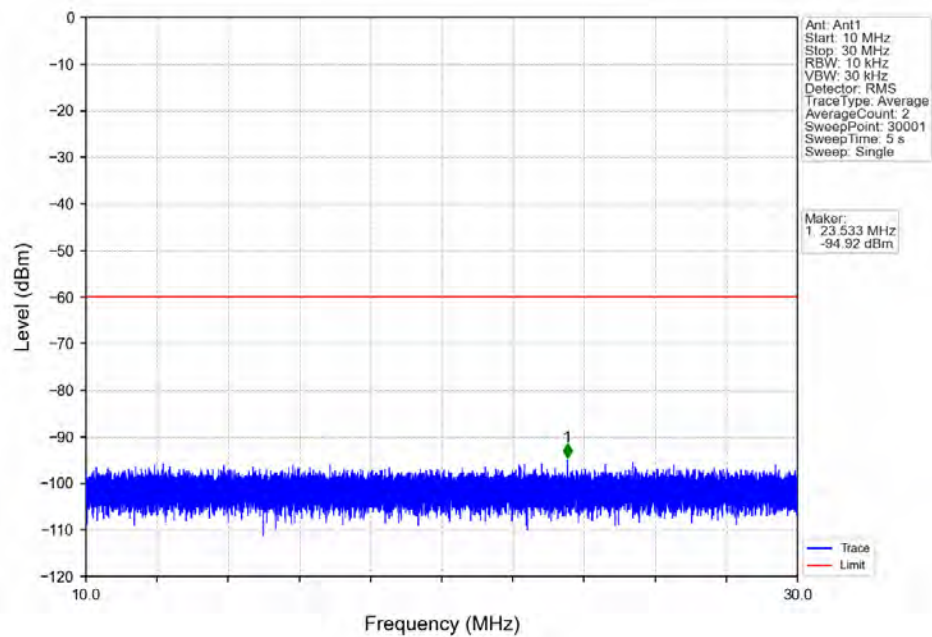
1.2.2 Test Graph



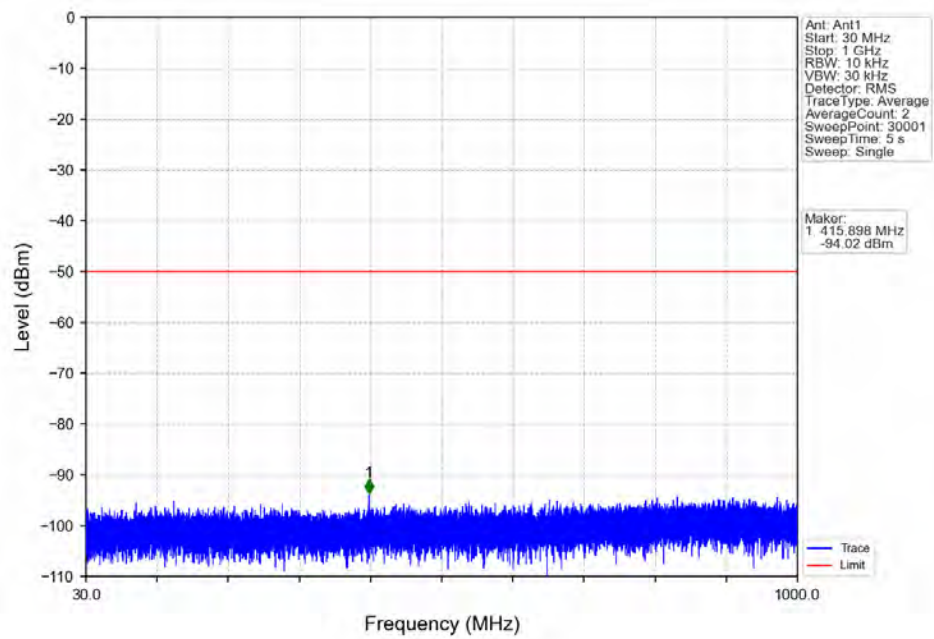
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Edge 1RB Left



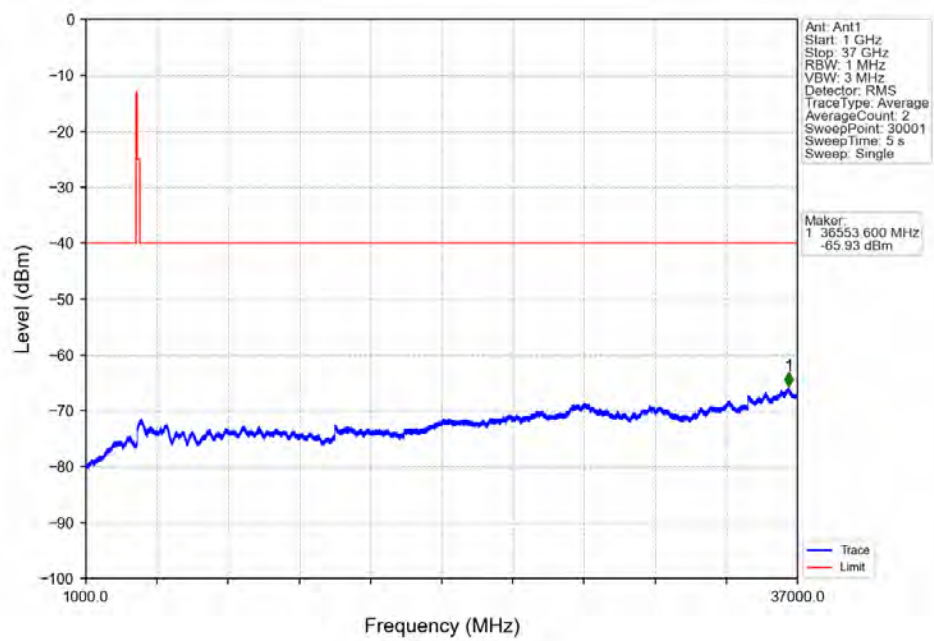
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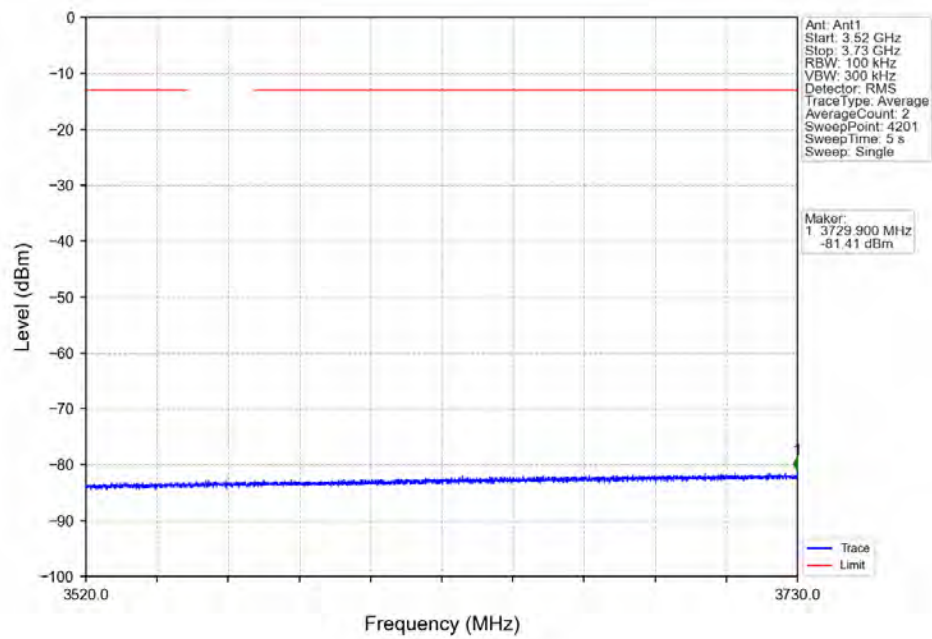
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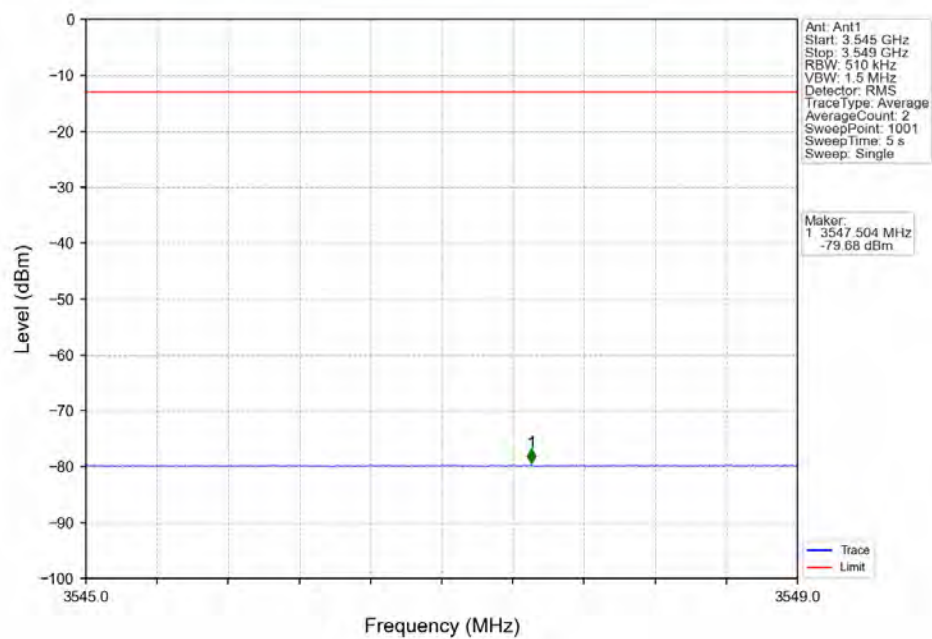
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Edge 1RB Left



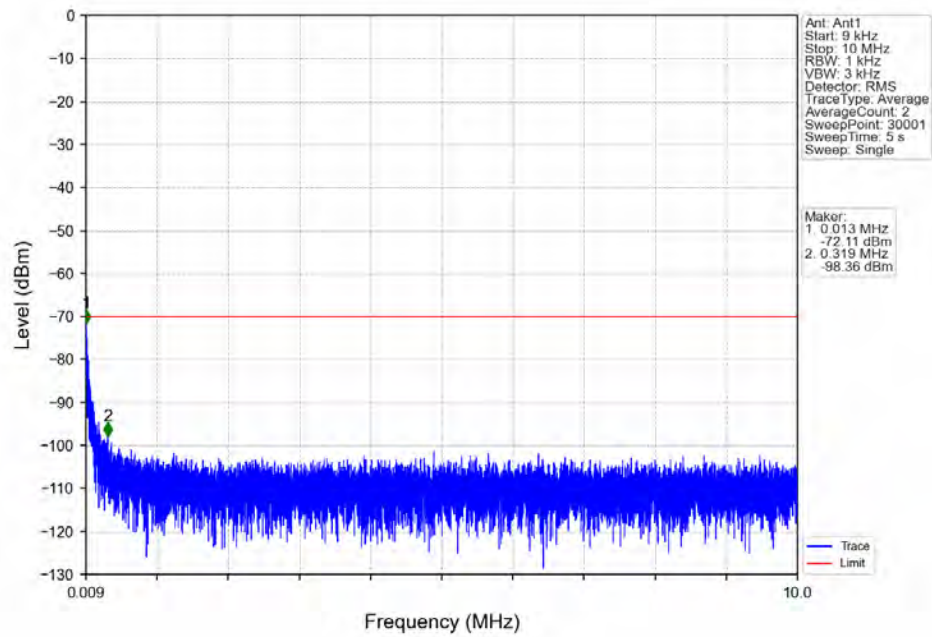
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Outer Full



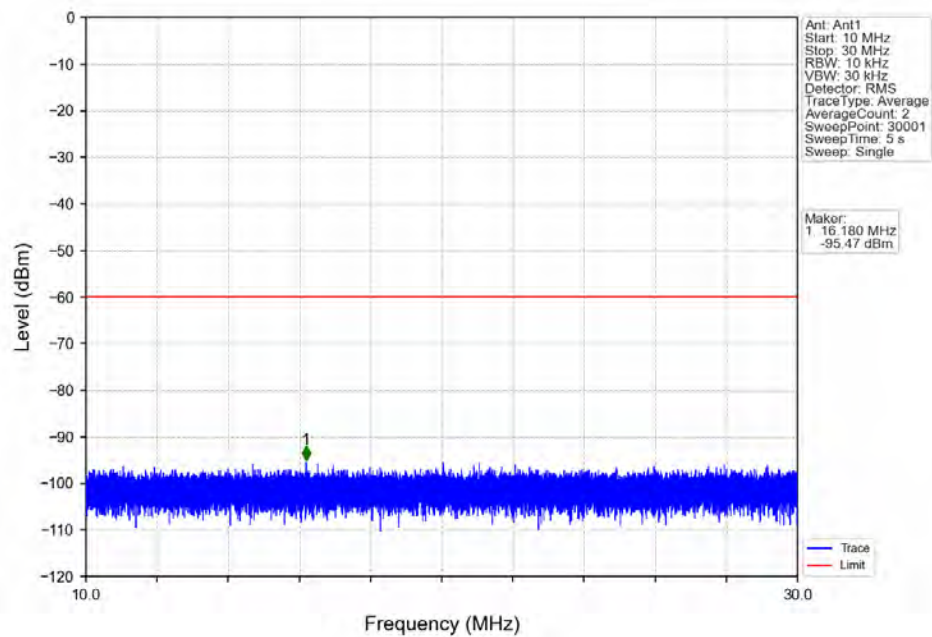
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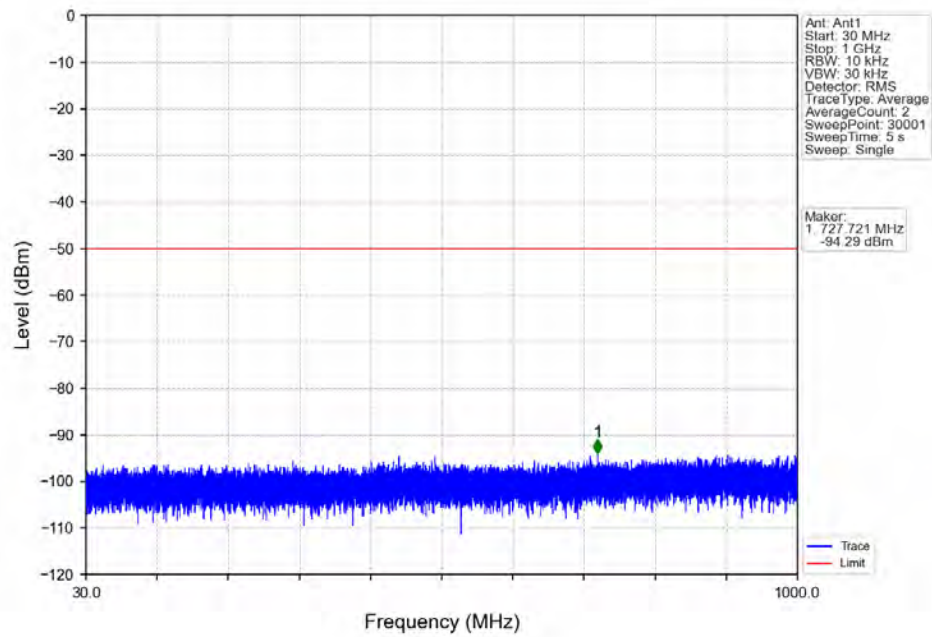
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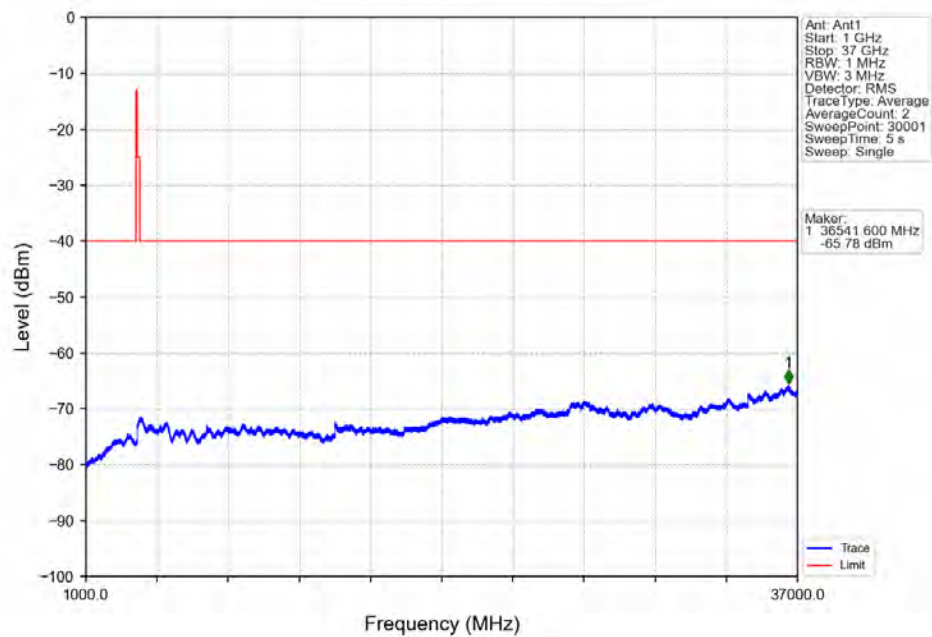
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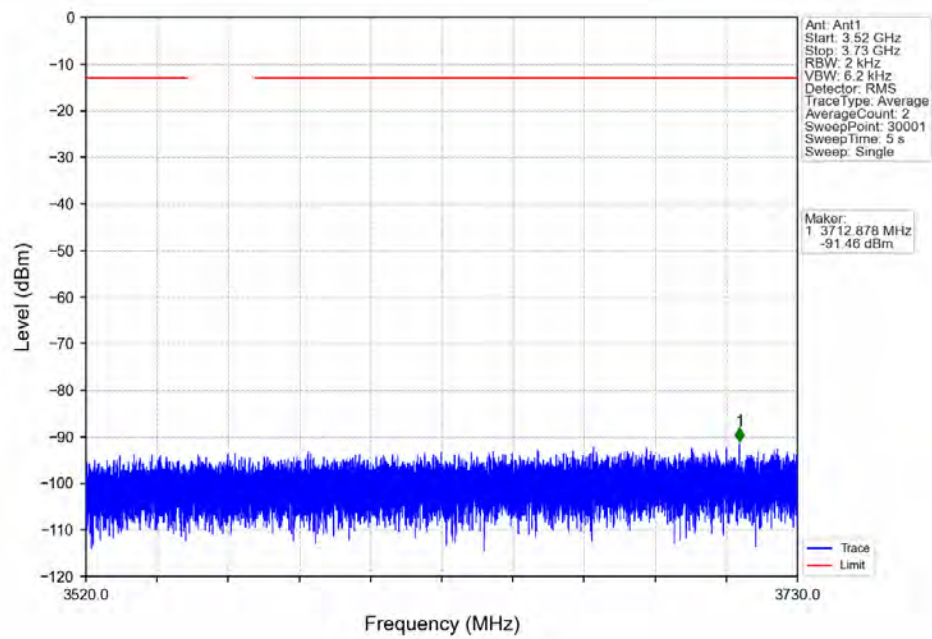
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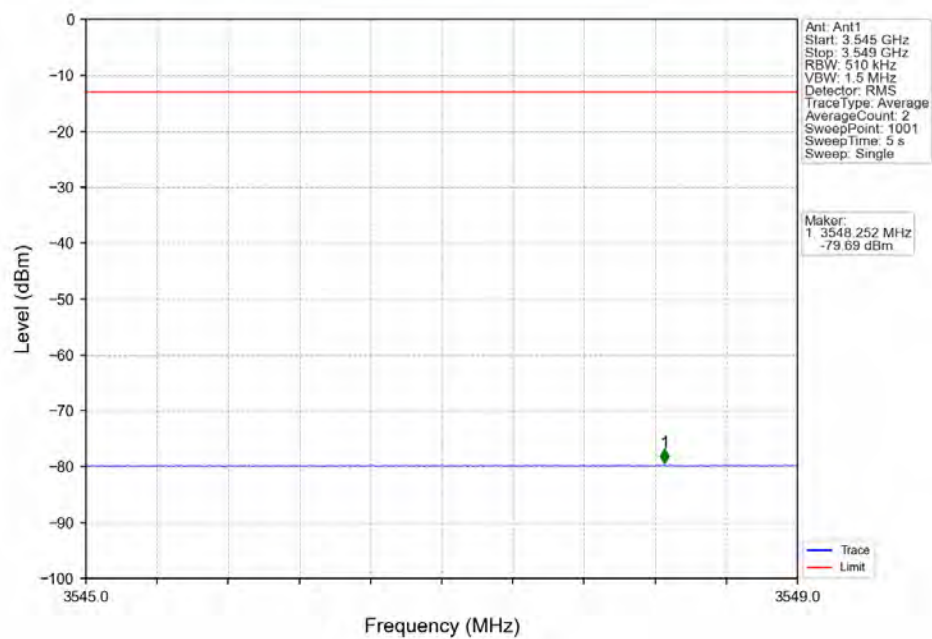
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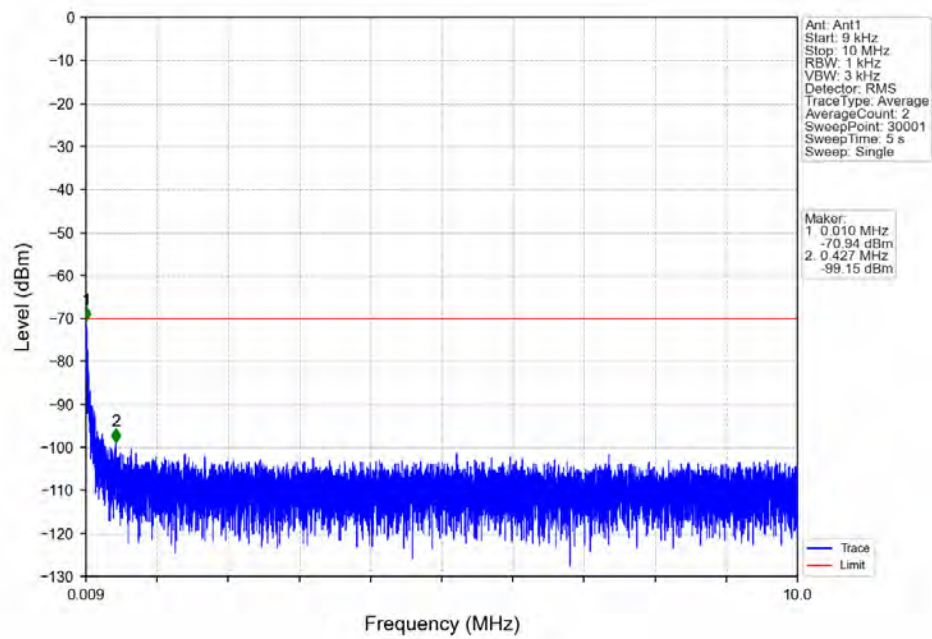
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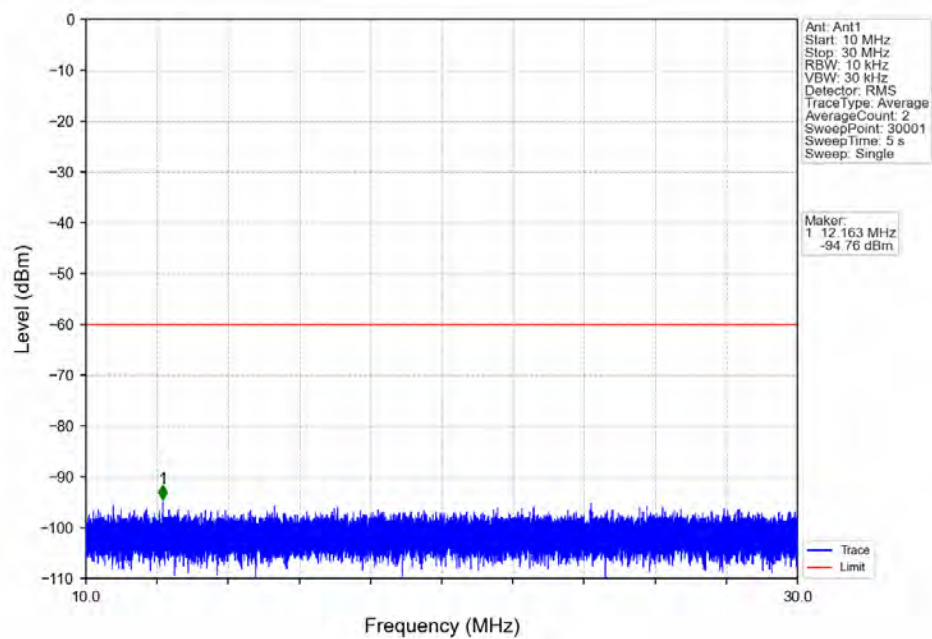
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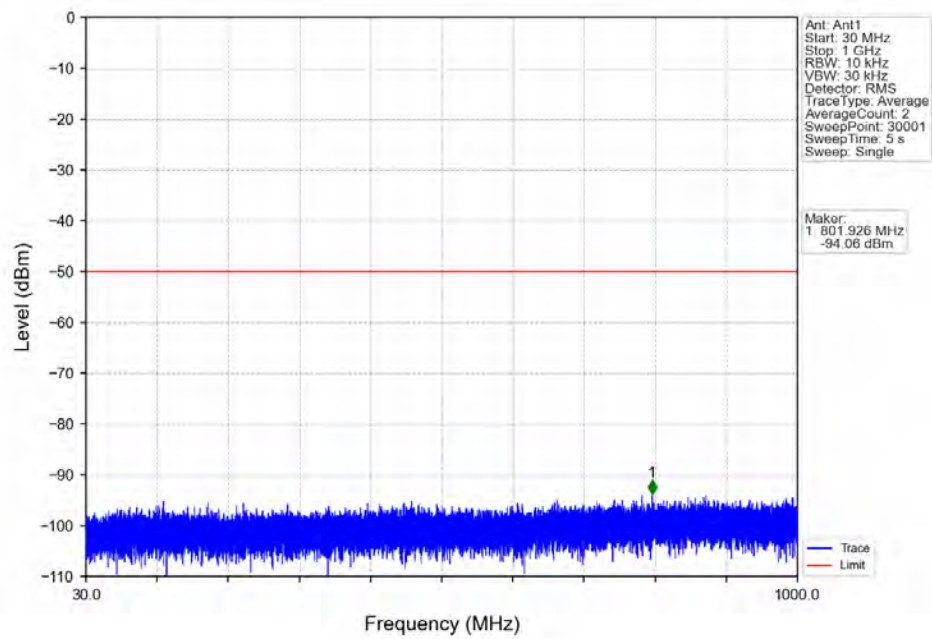
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Inner 1RB Left



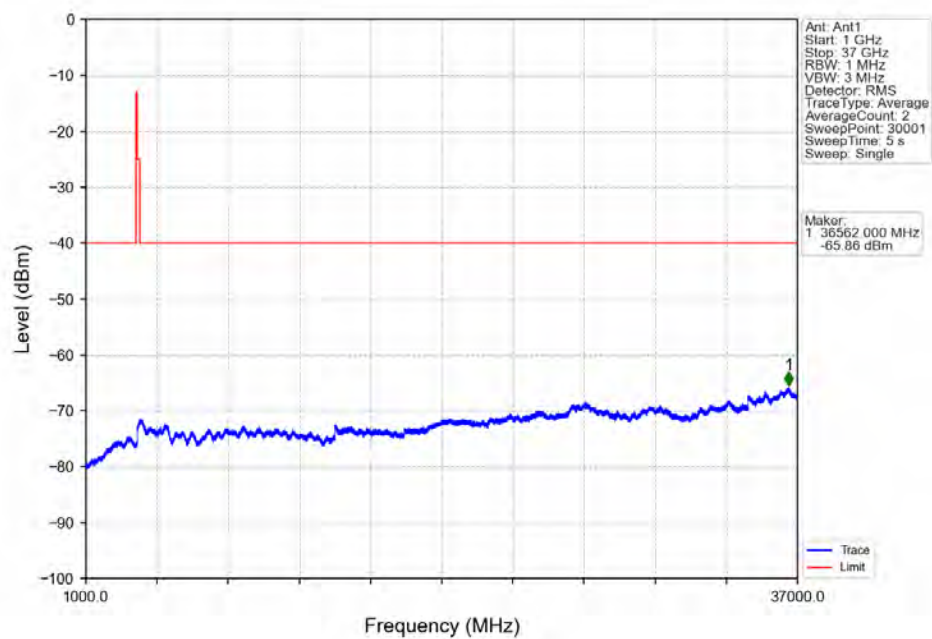
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Inner 1RB Left



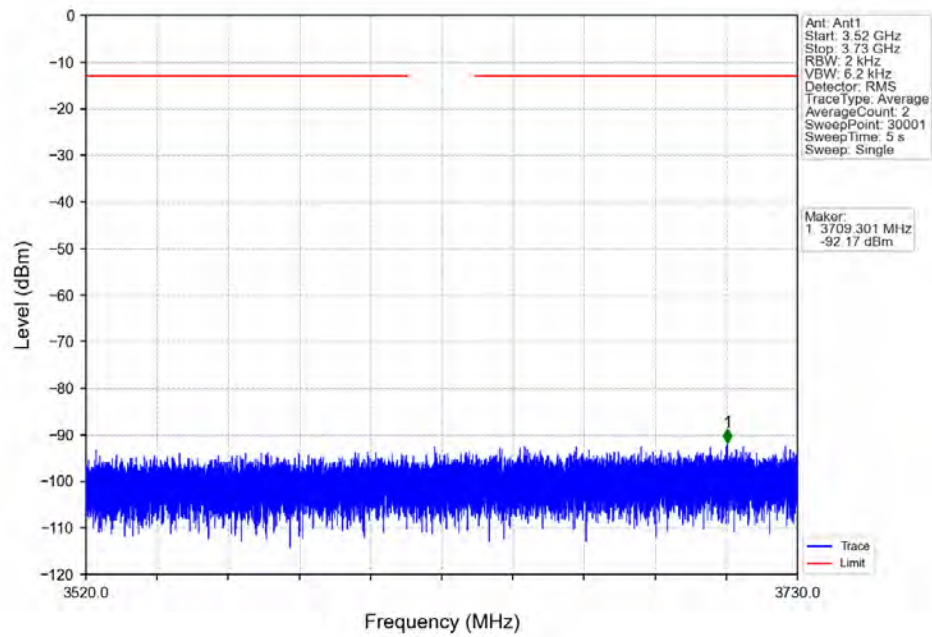
n48 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Inner 1RB Left



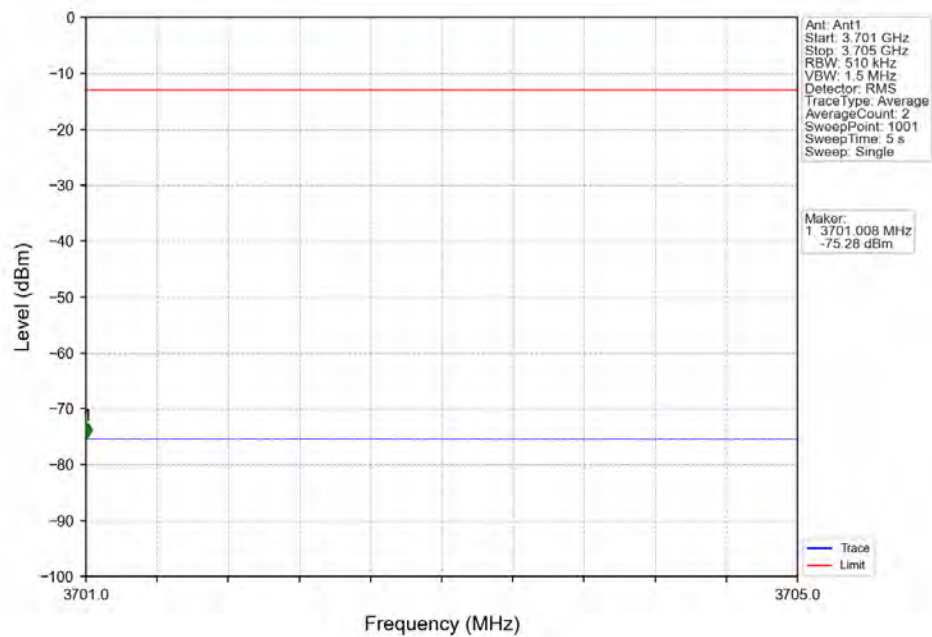
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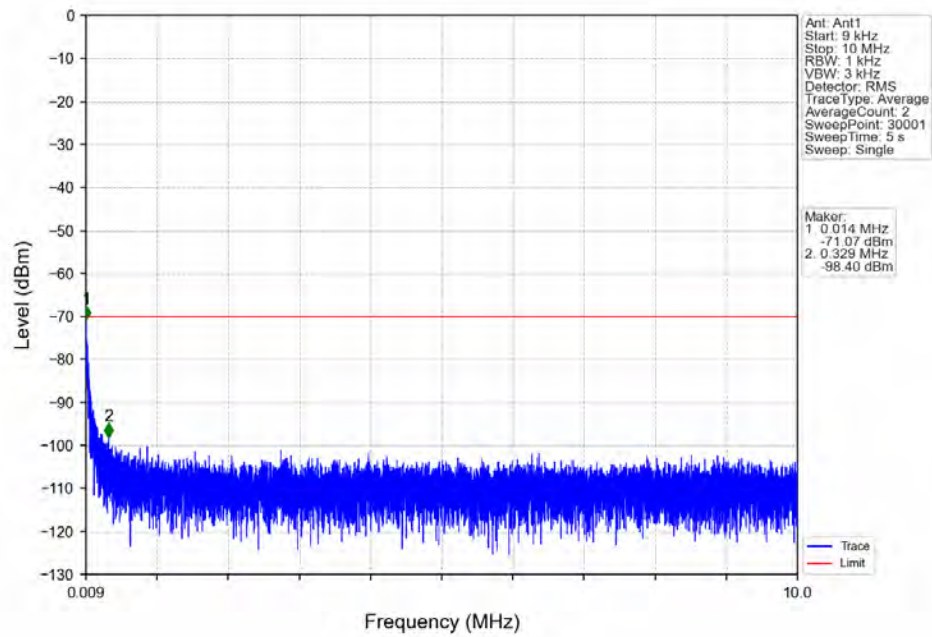
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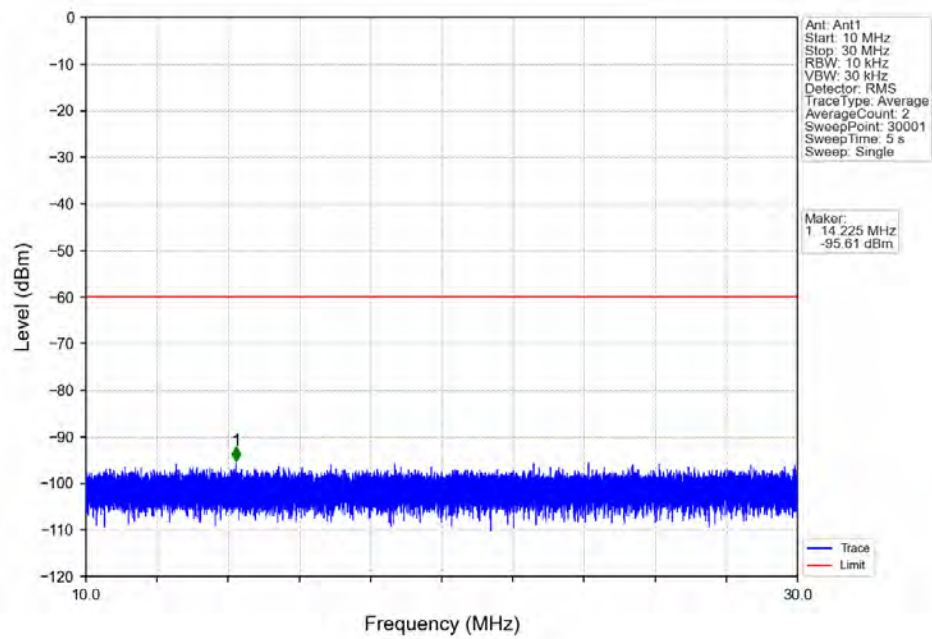
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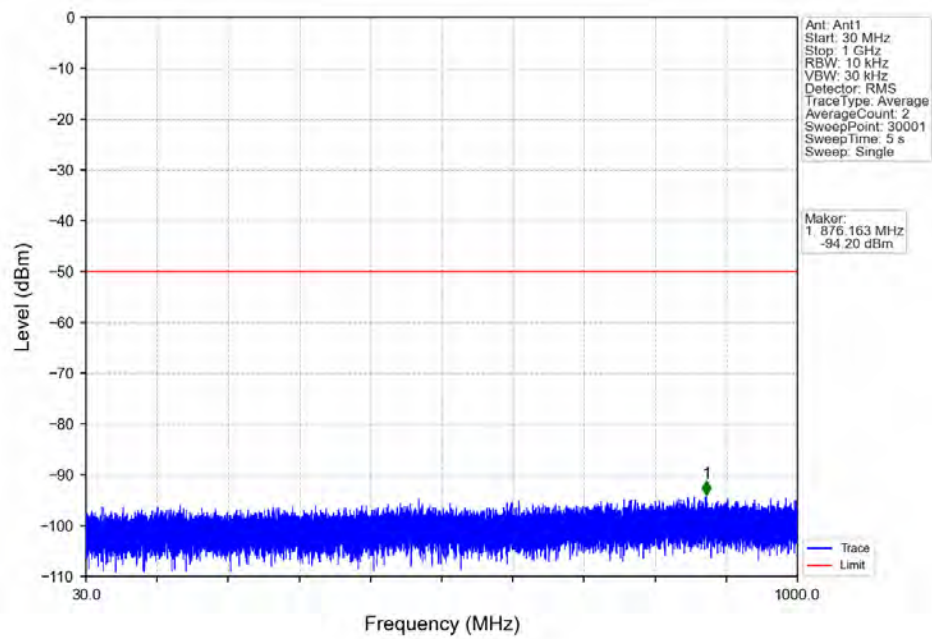
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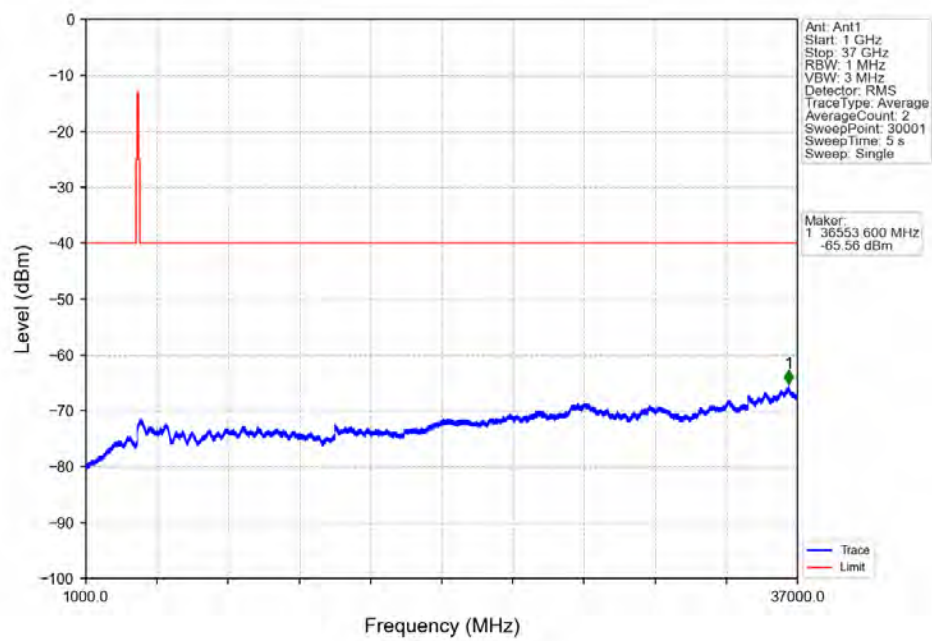
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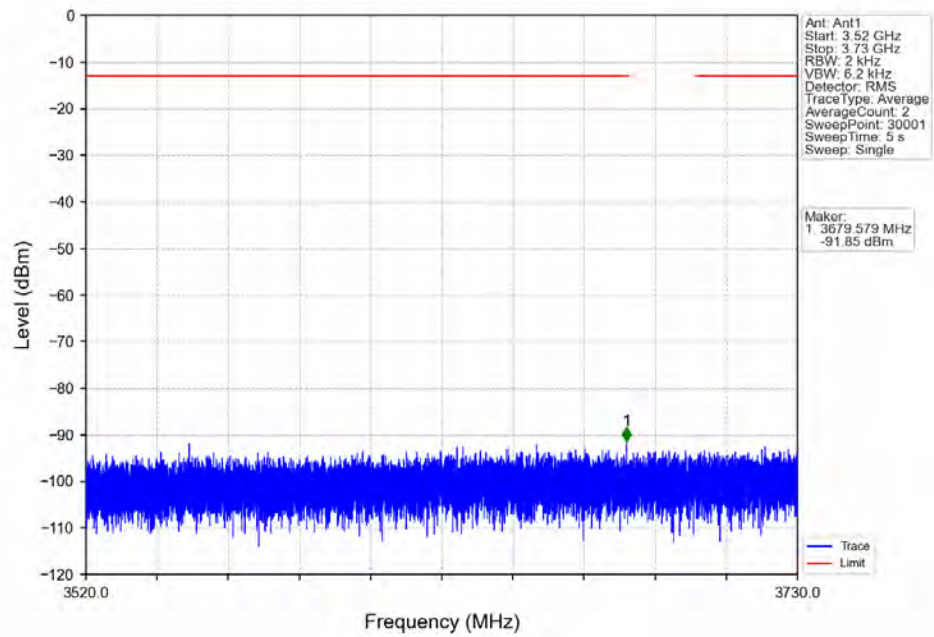
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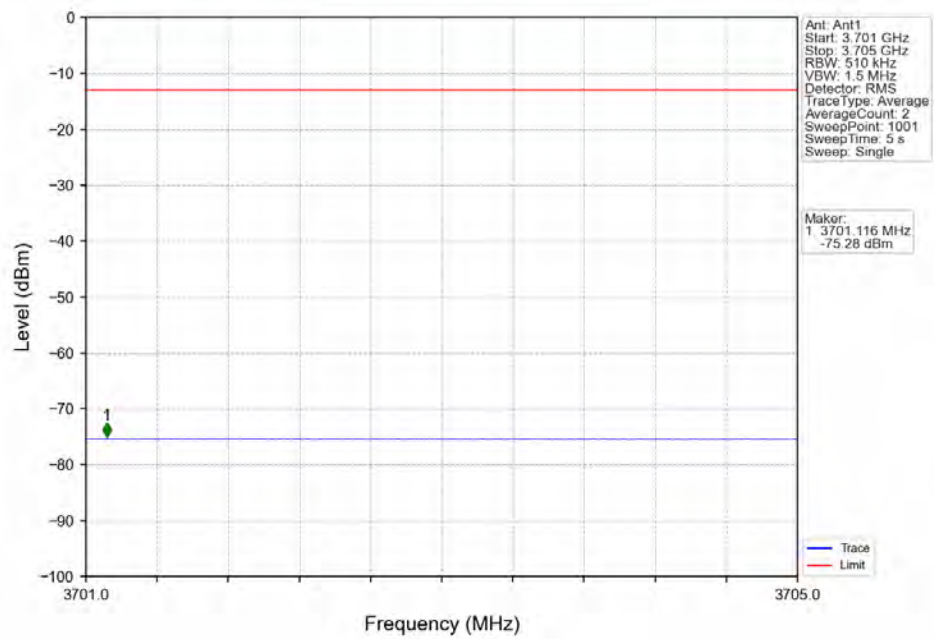
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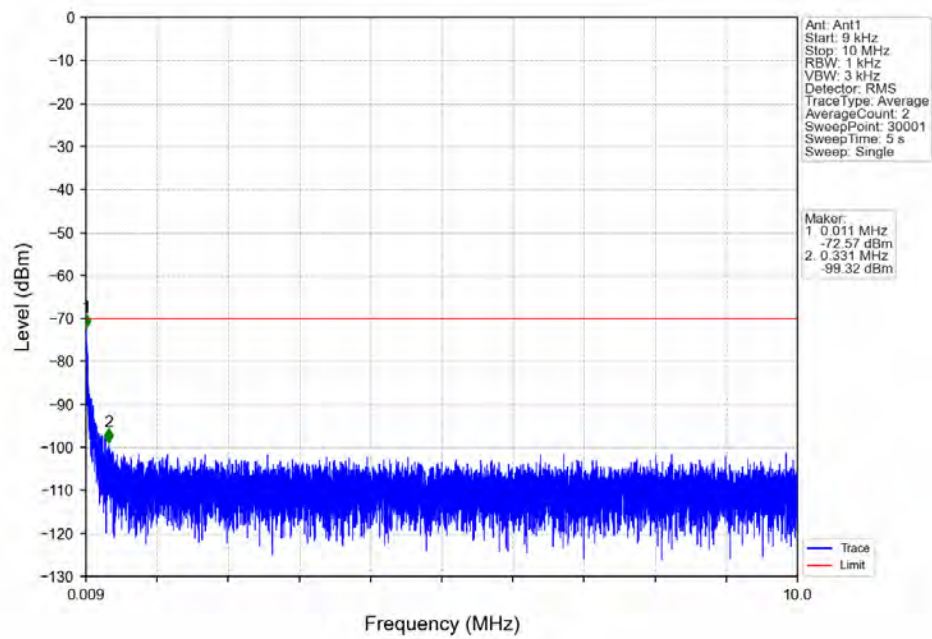
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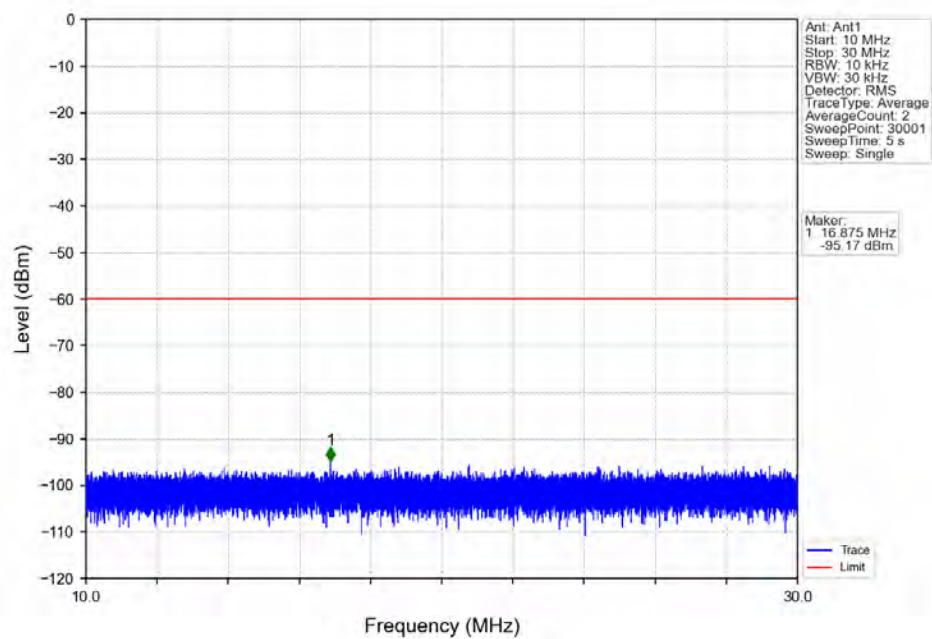
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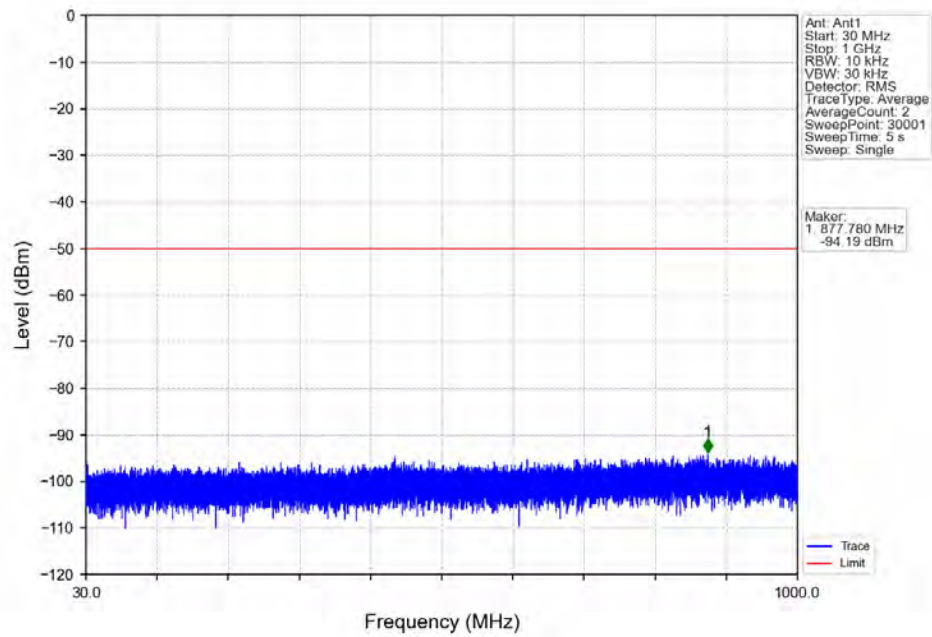
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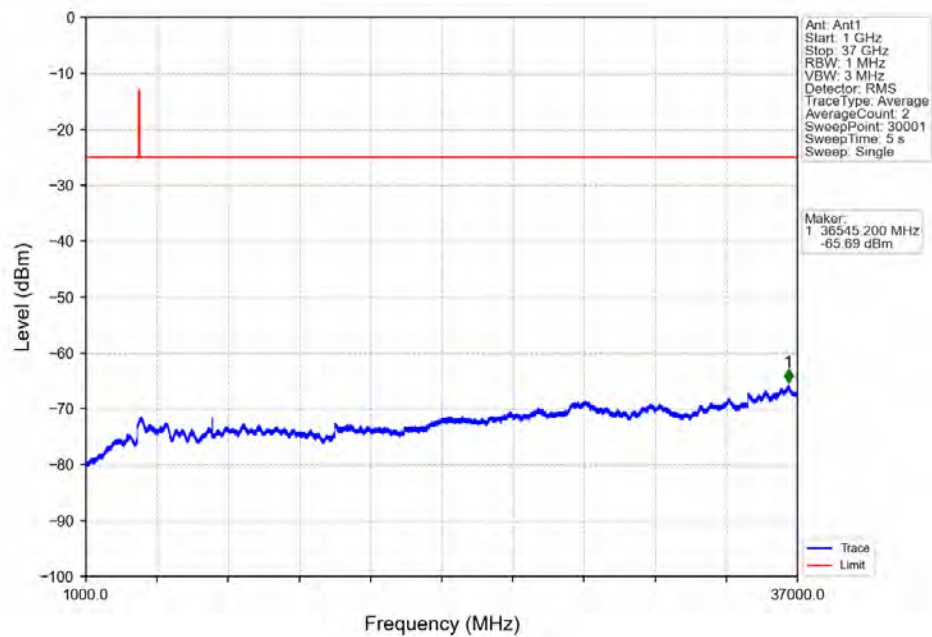
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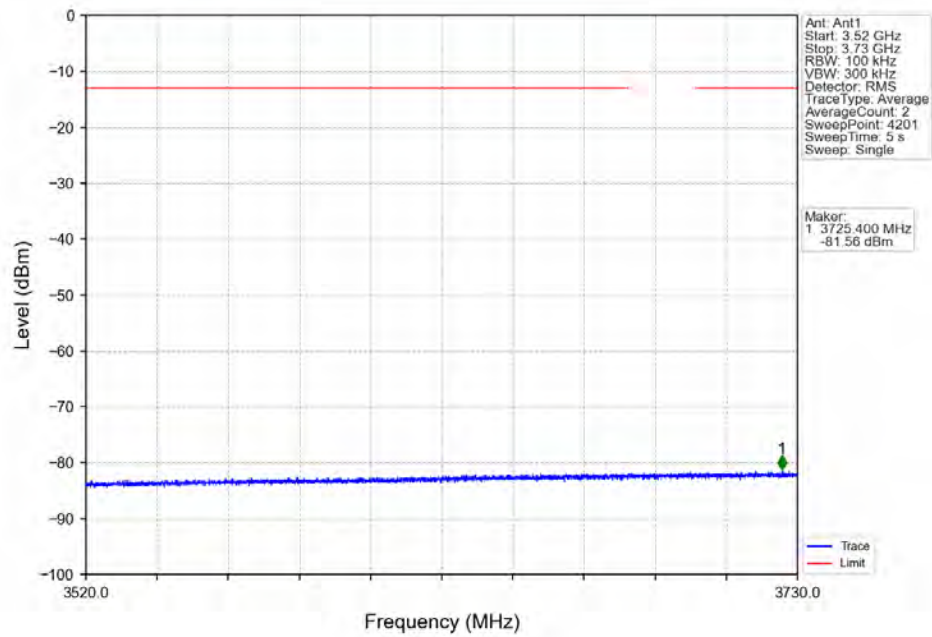
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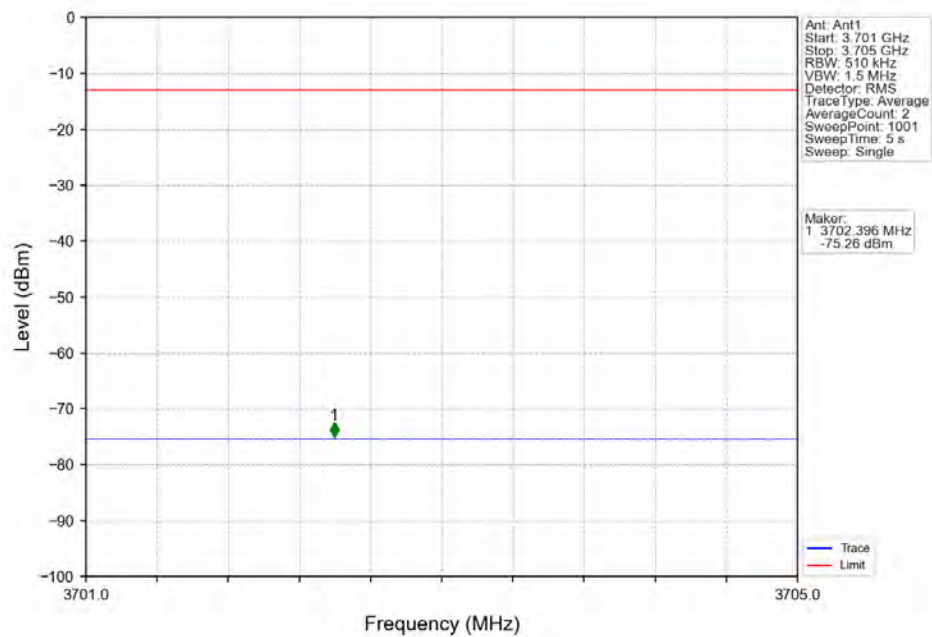
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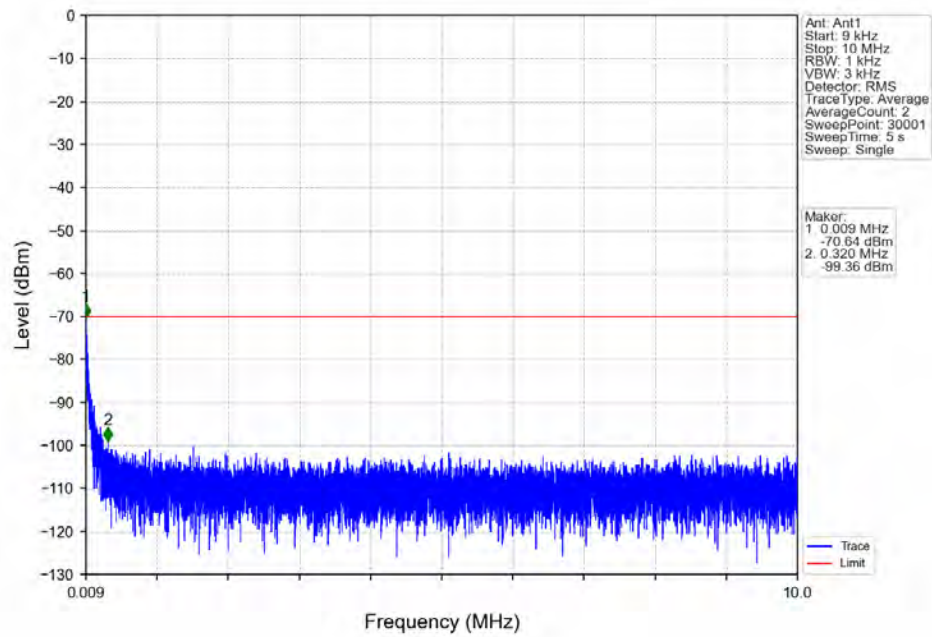
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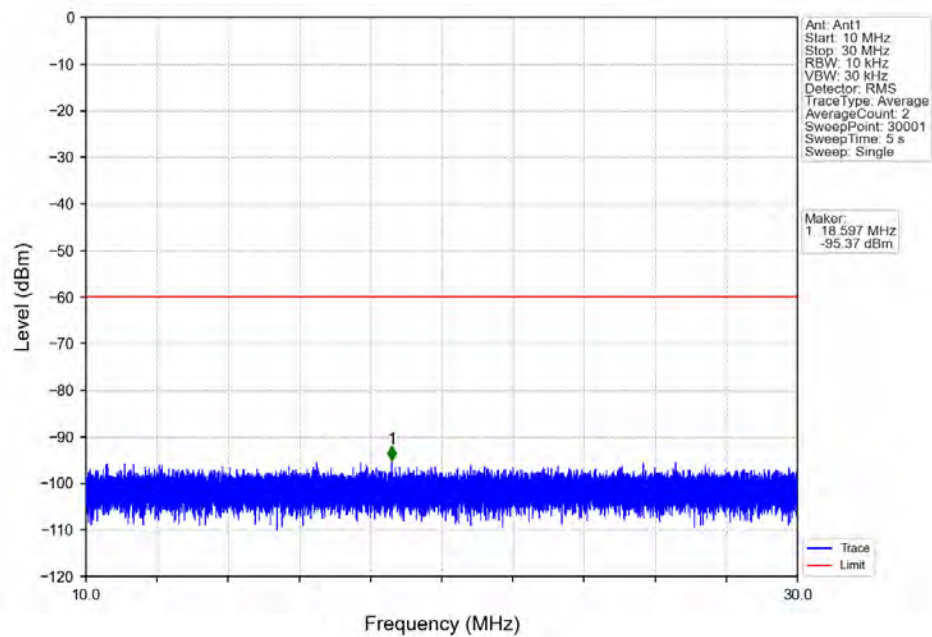
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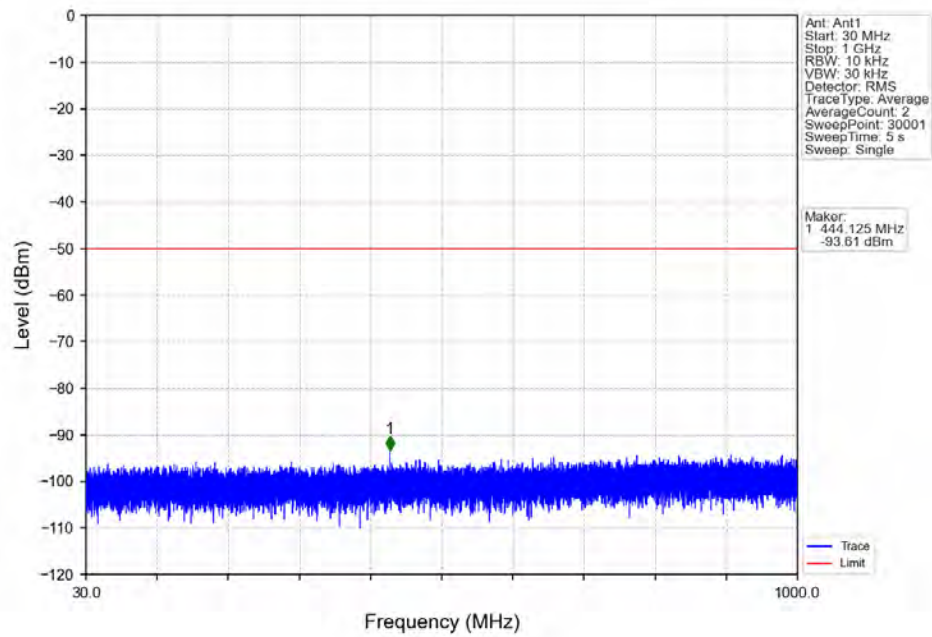
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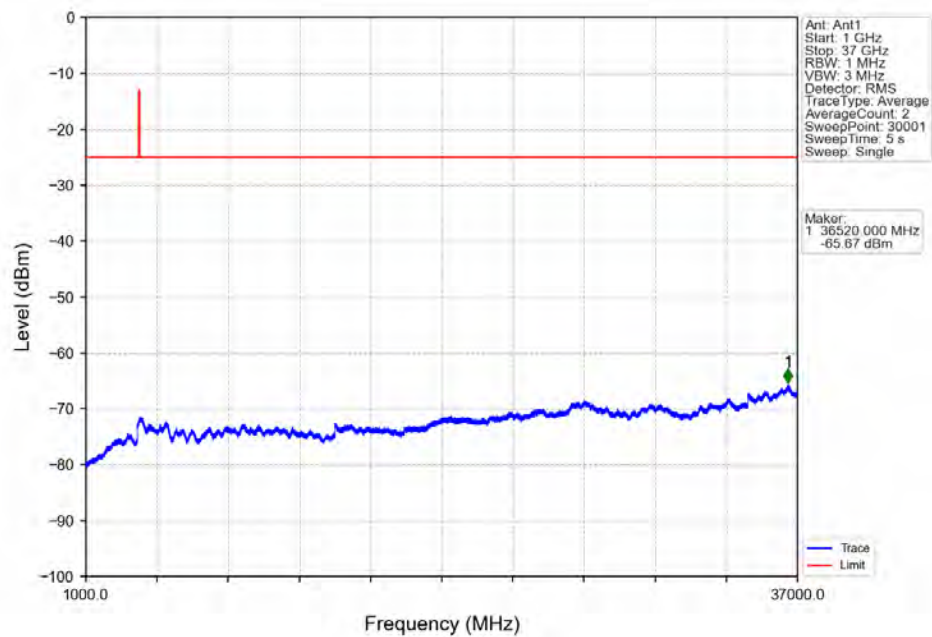
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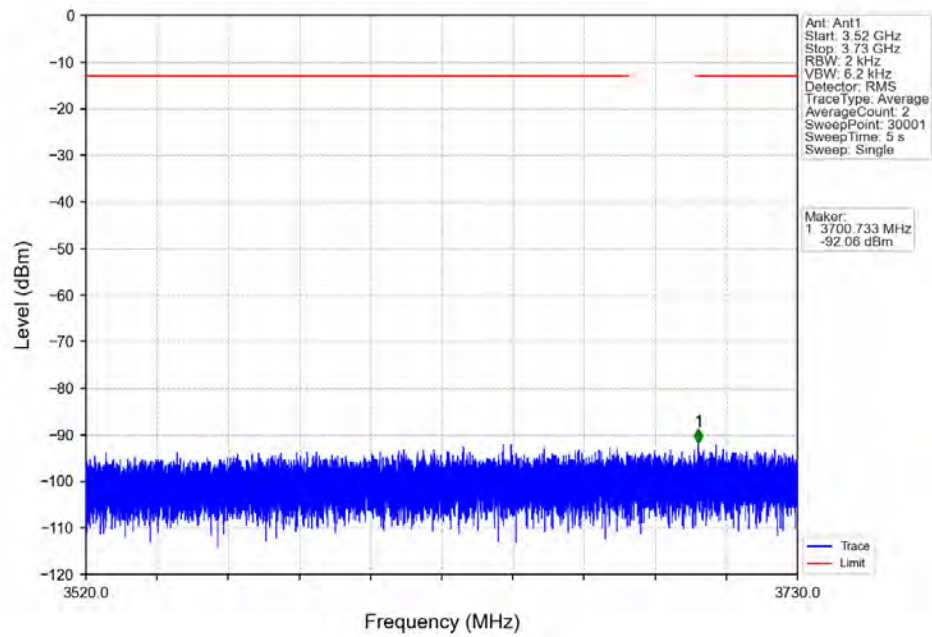
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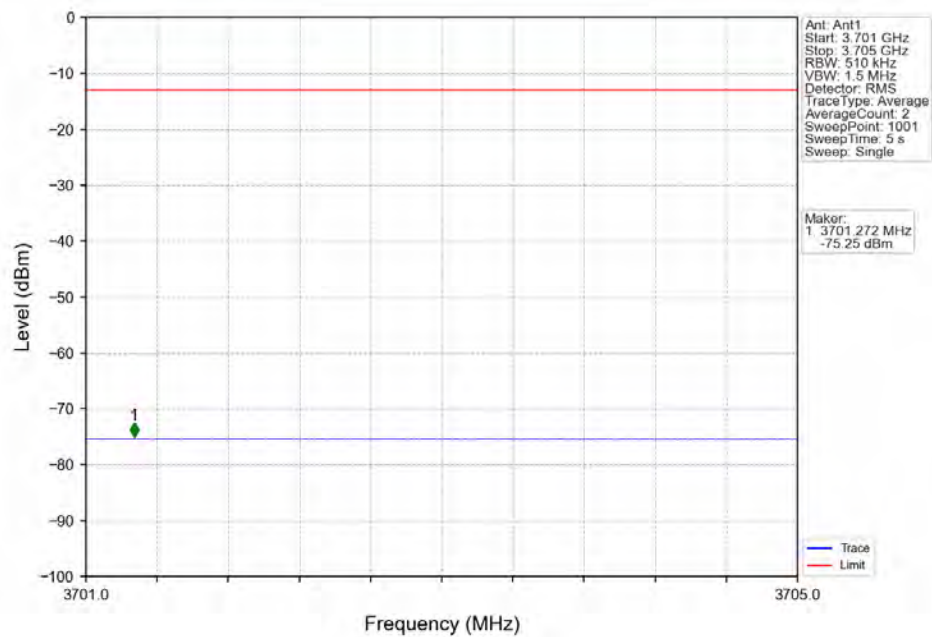
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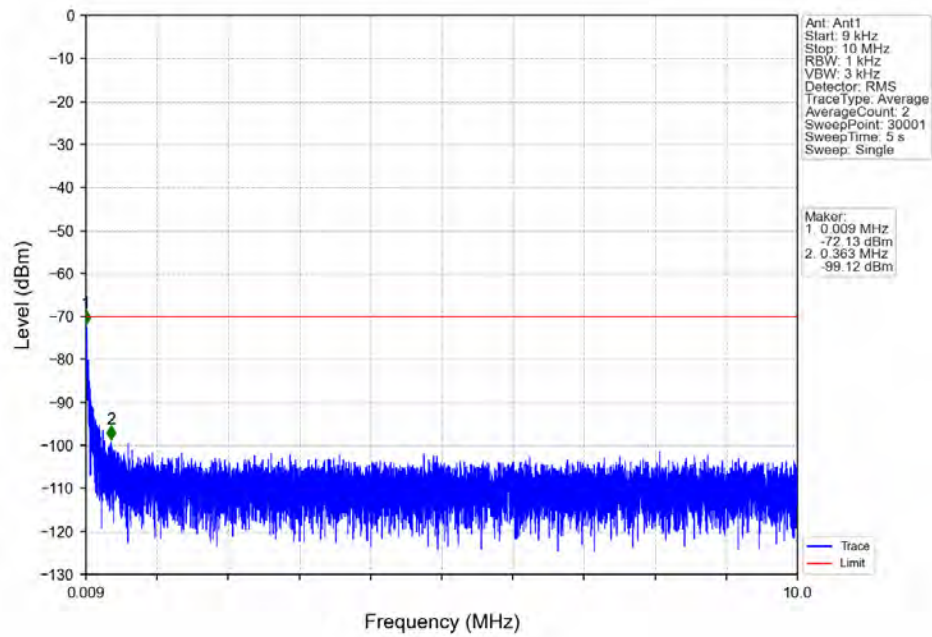
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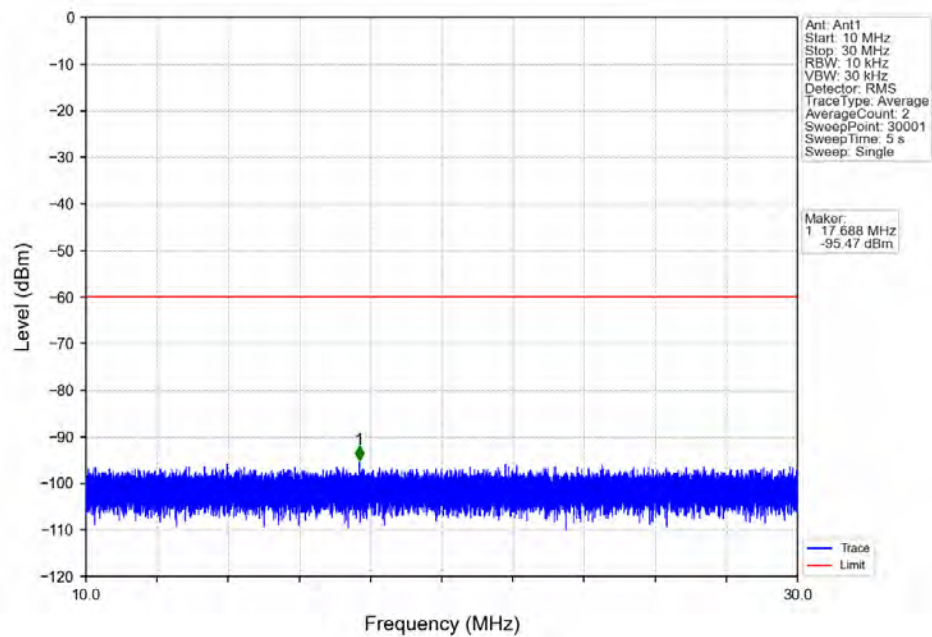
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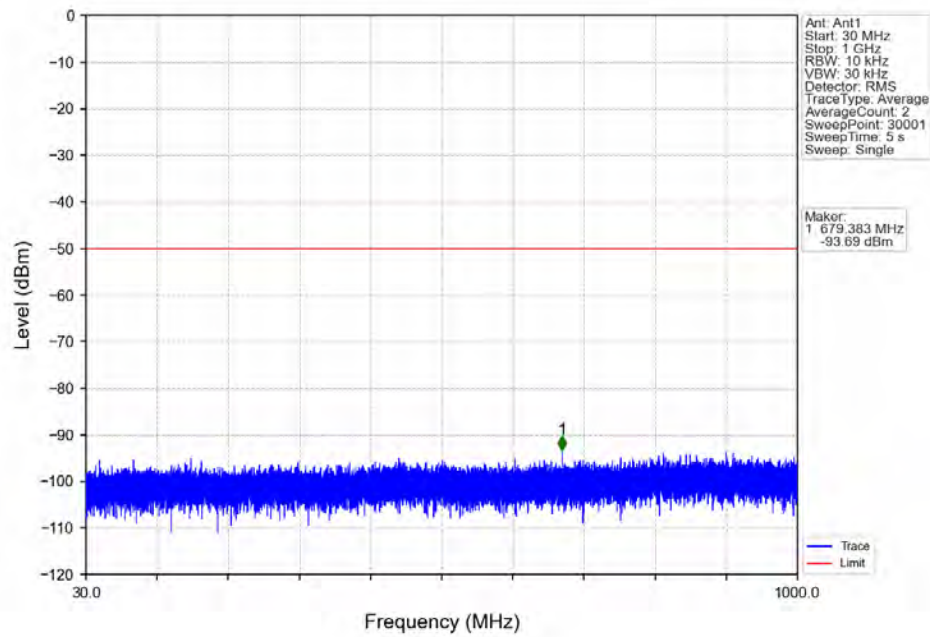
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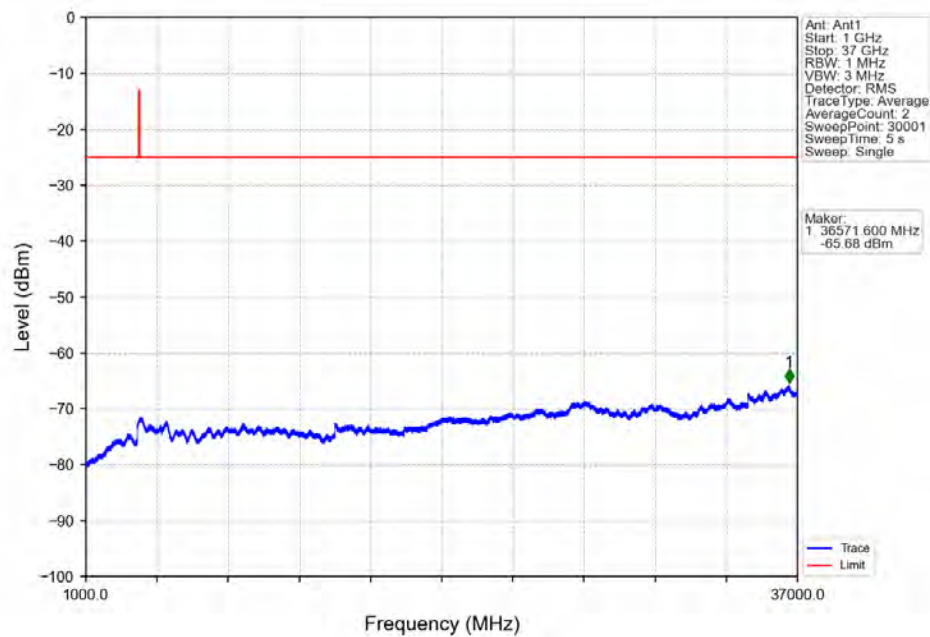
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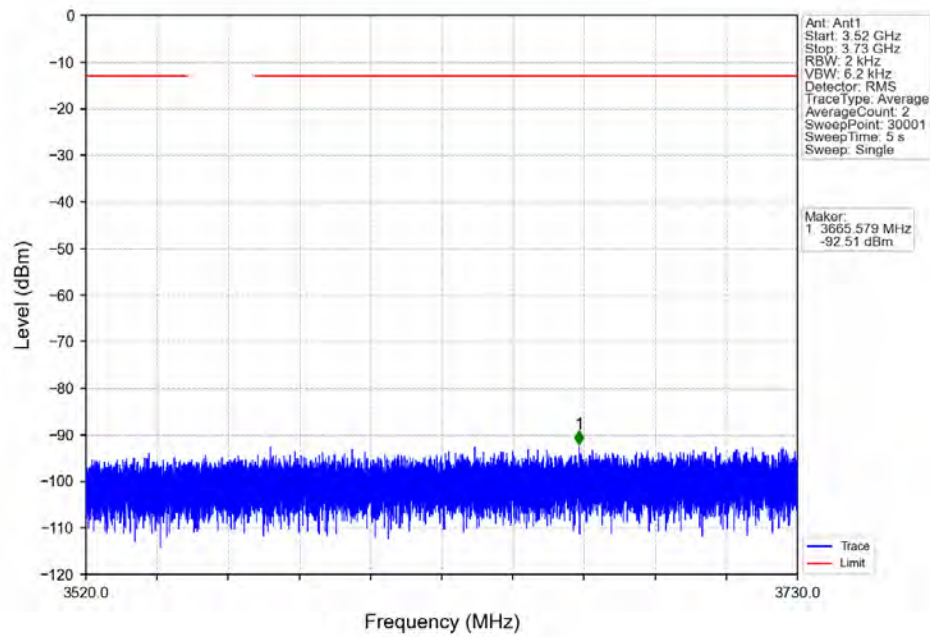
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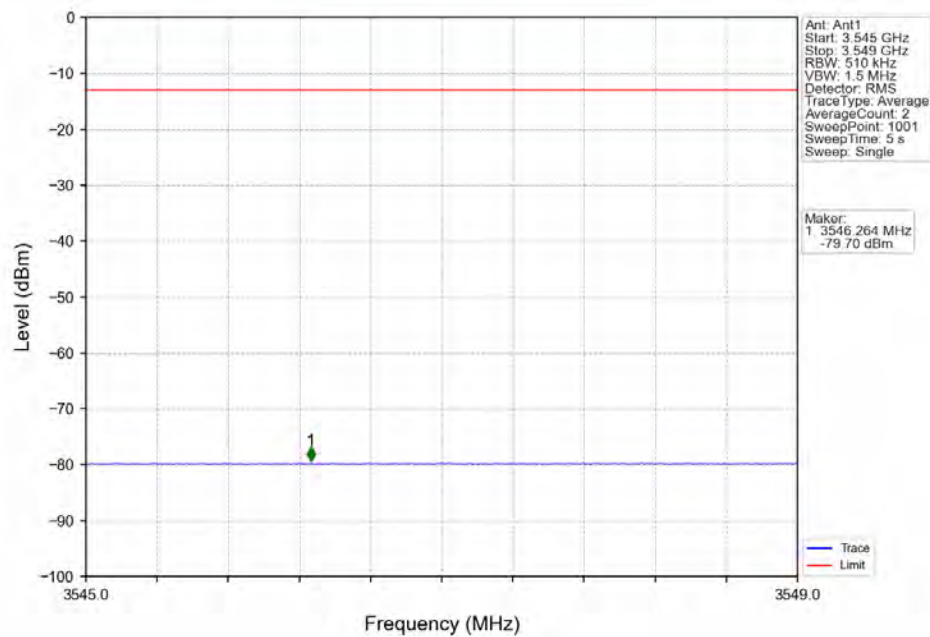
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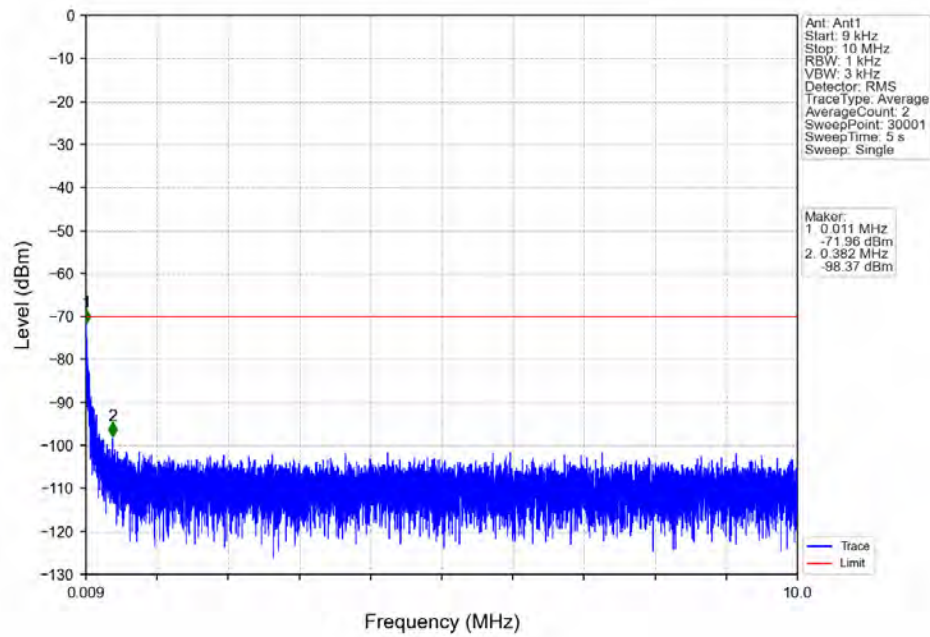
n48 30kHz SISO NTN 20MHz CP-OFDM QPSK 3560.01MHz Edge 1RB Left



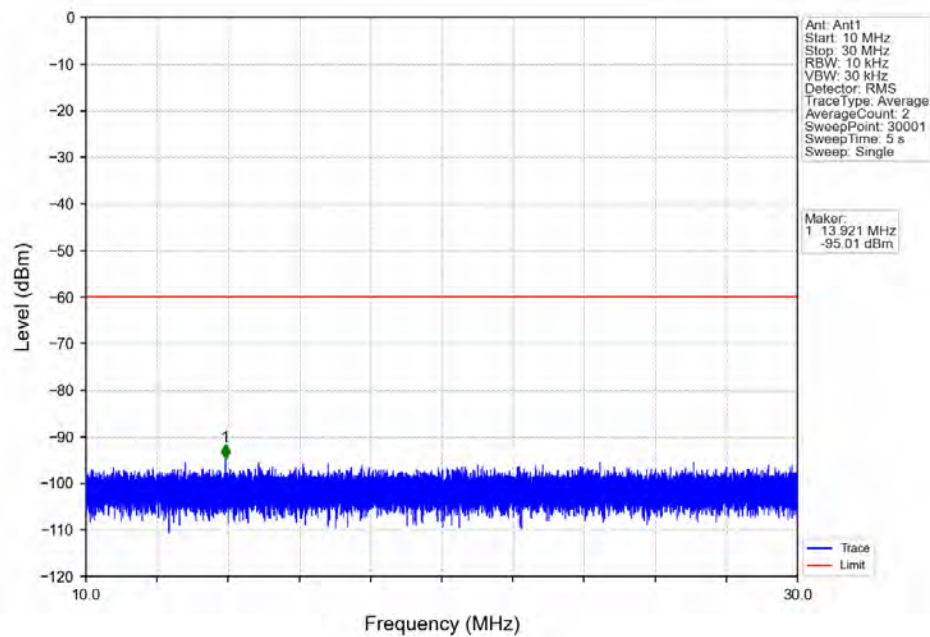
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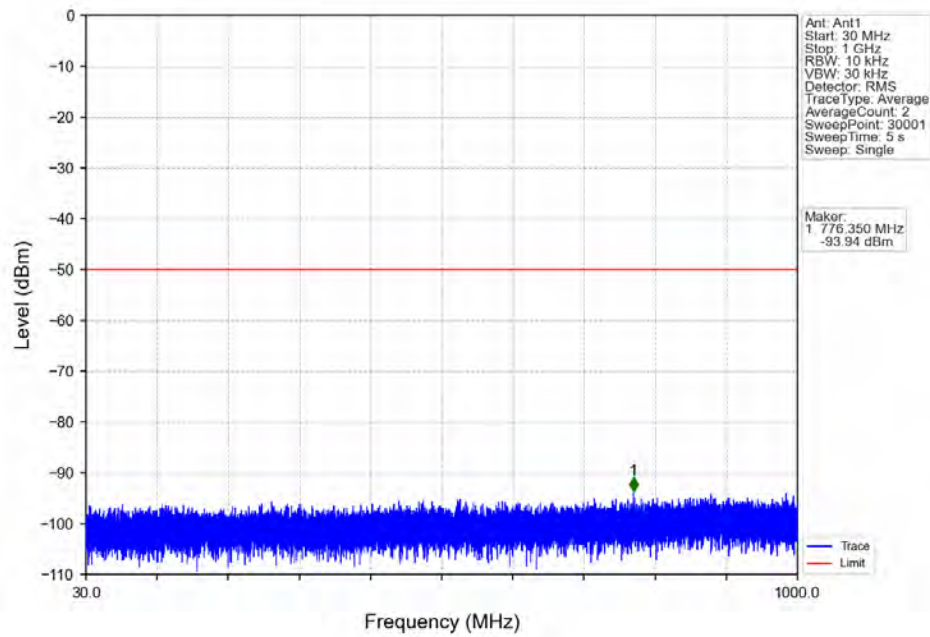
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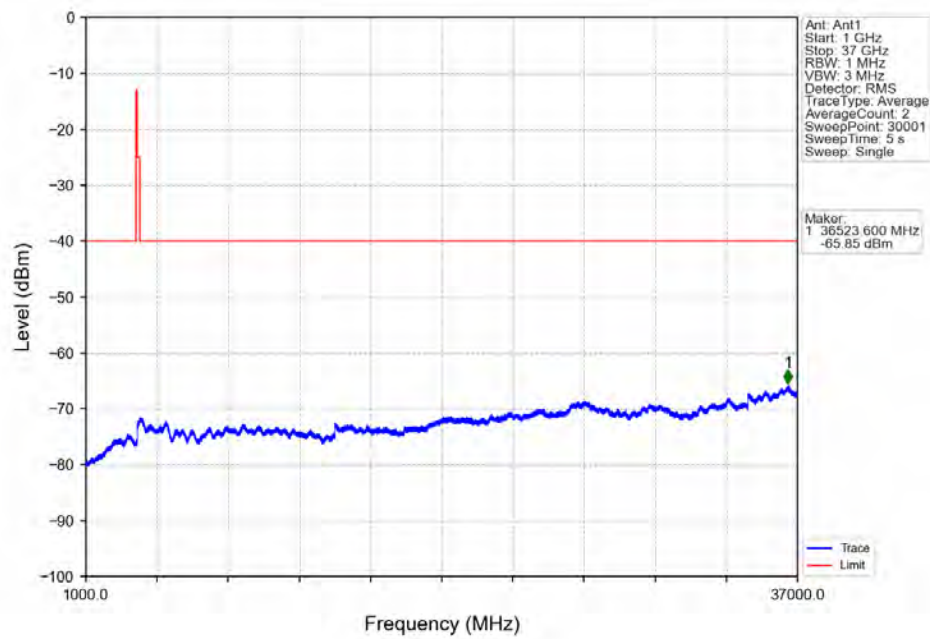
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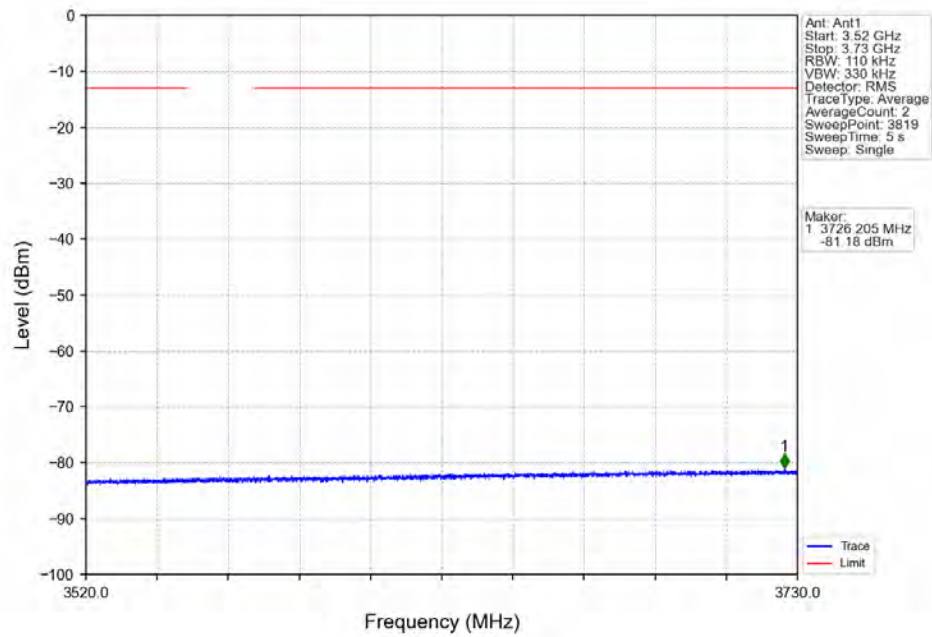
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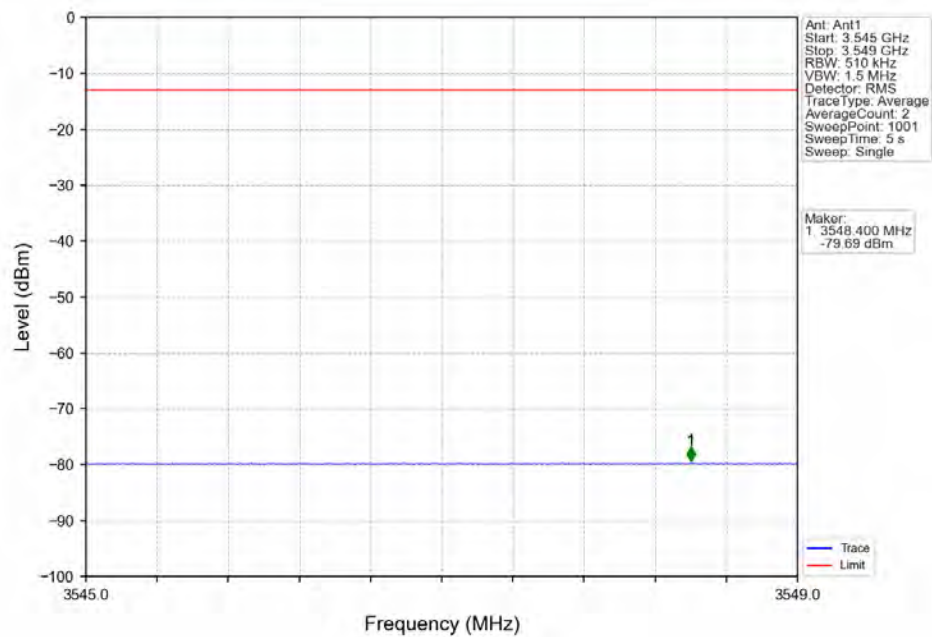
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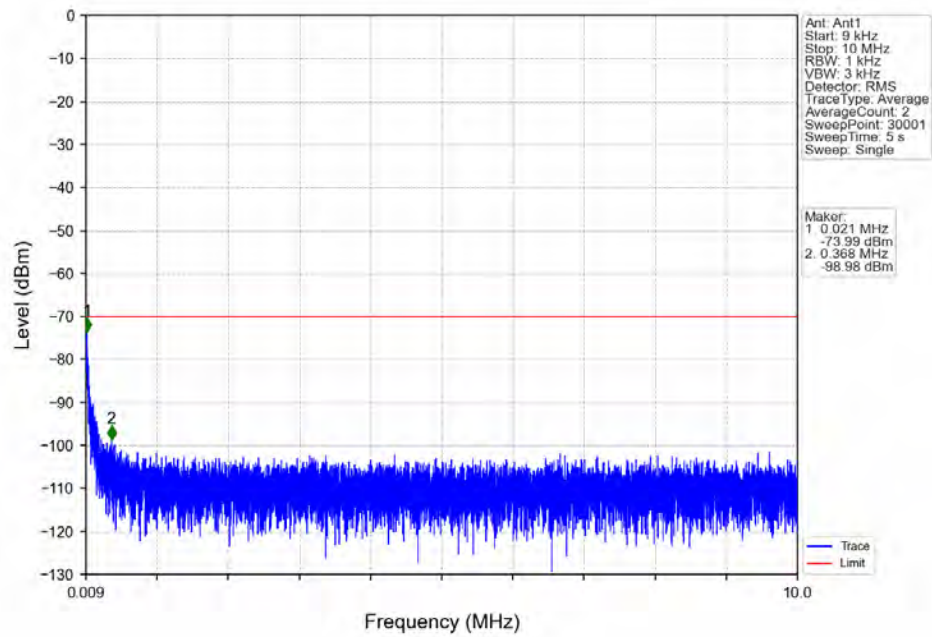
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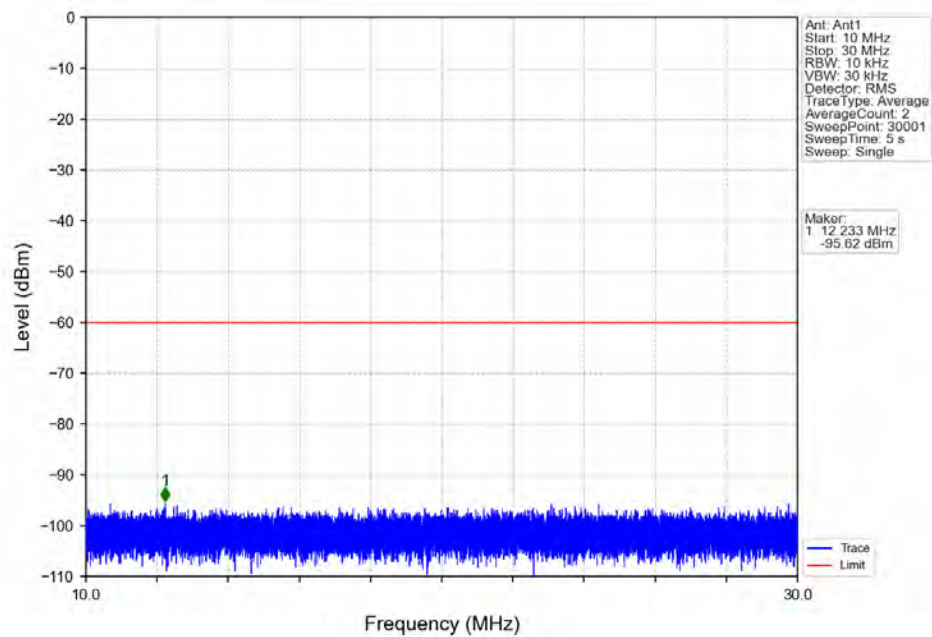
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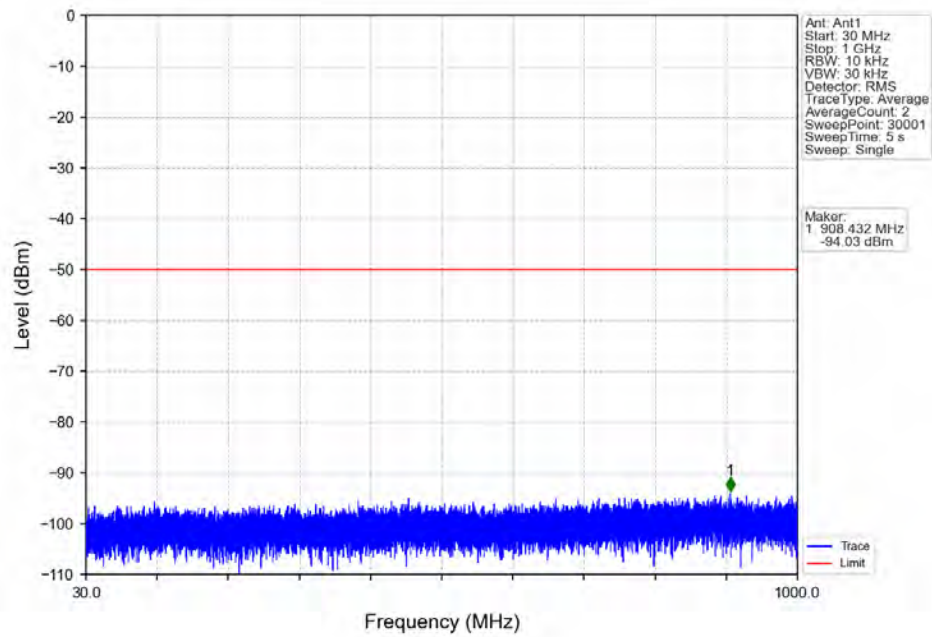
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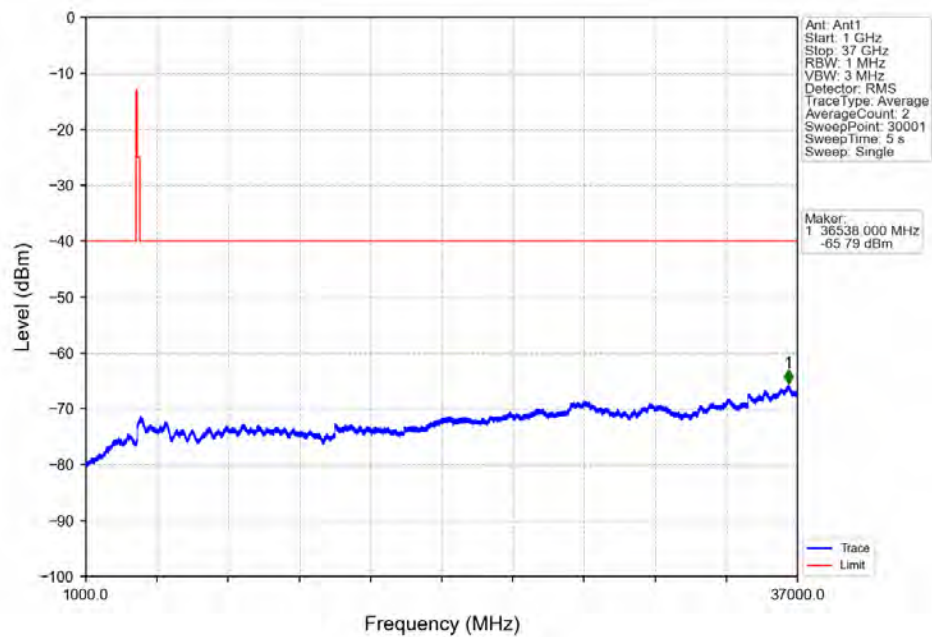
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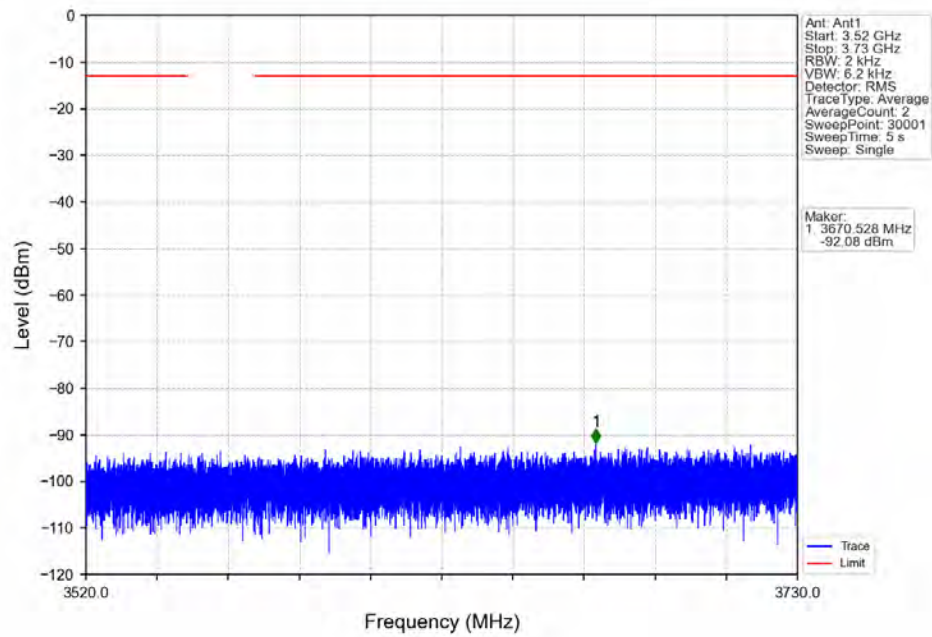
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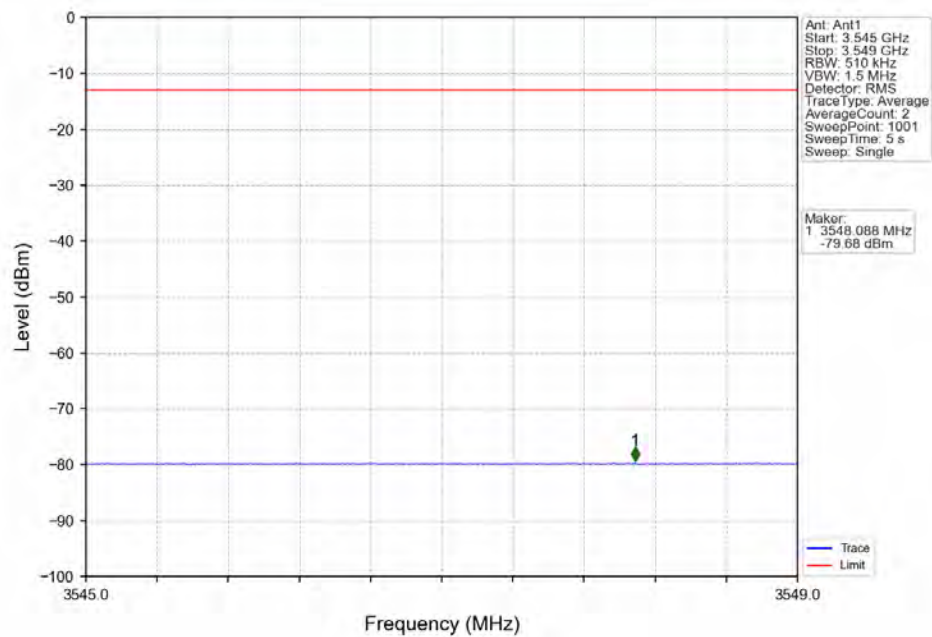
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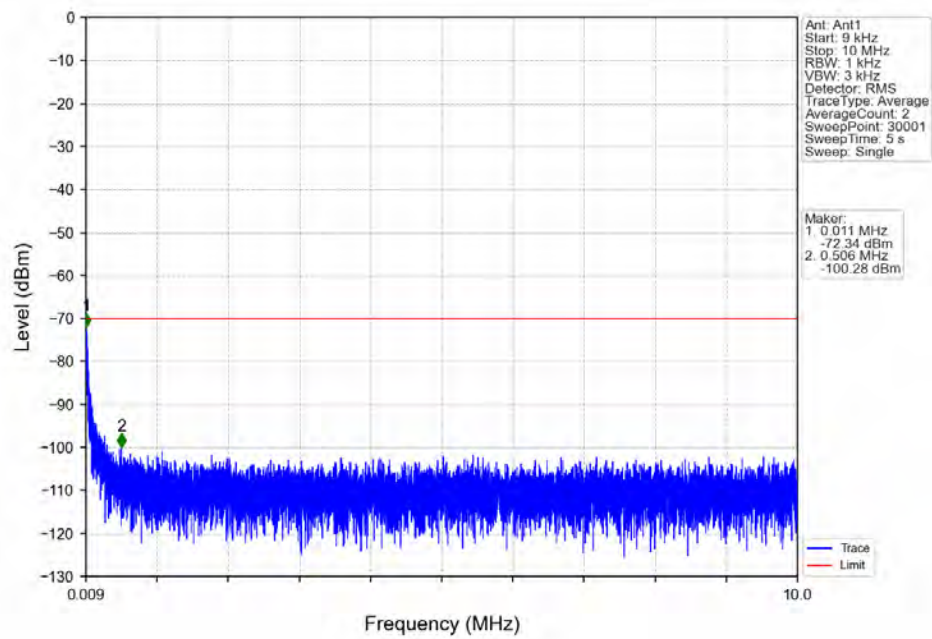
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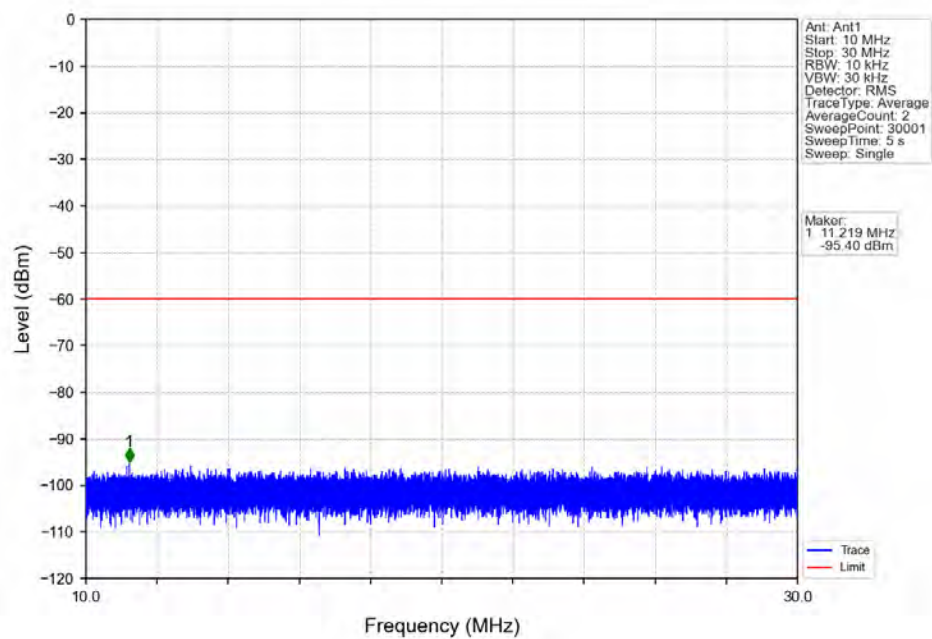
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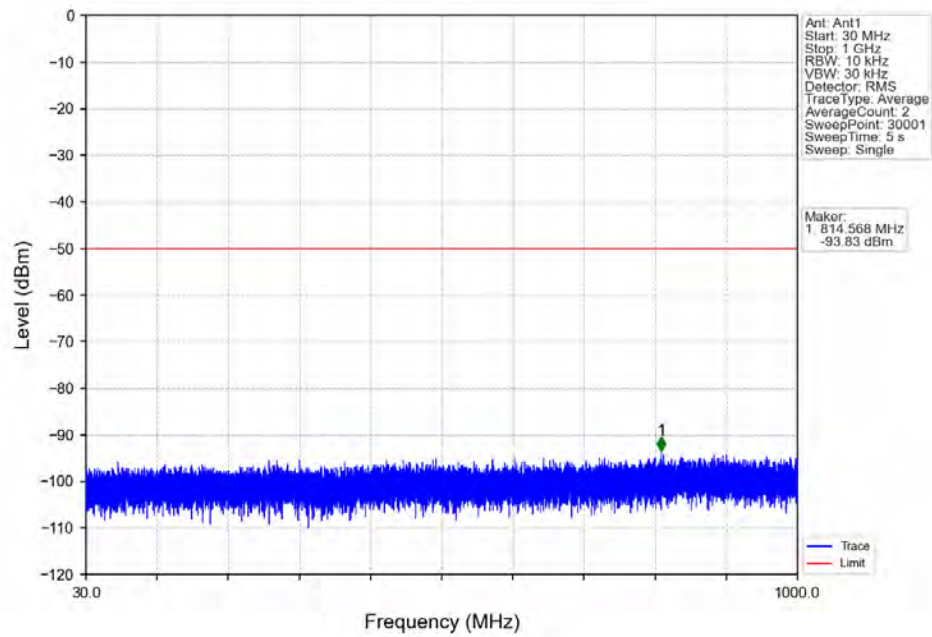
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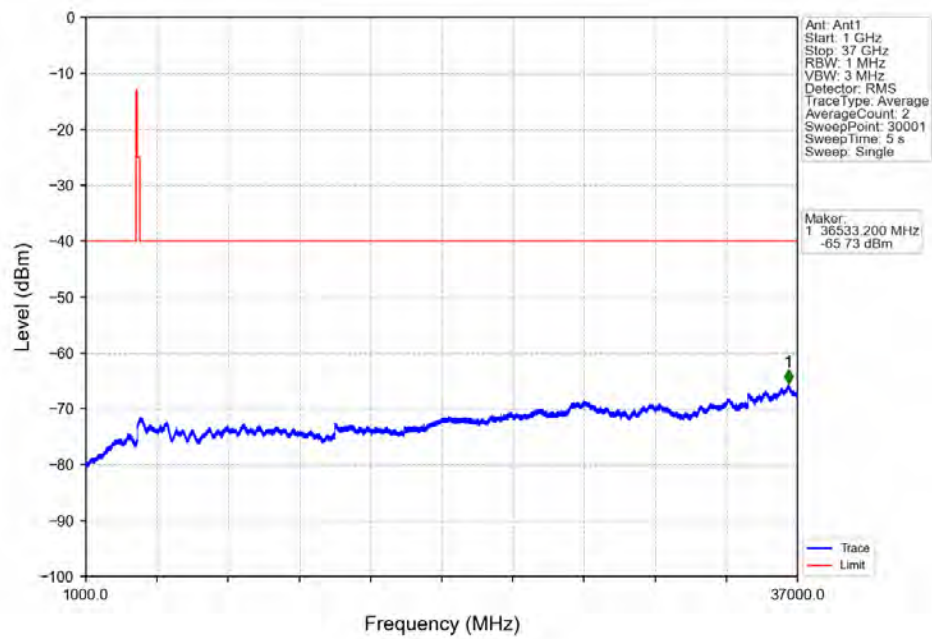
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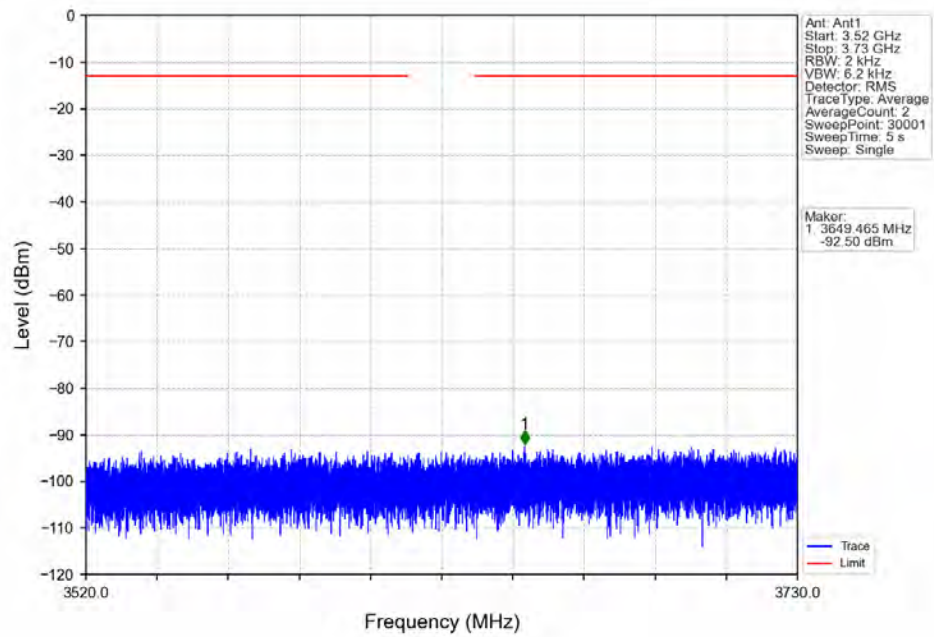
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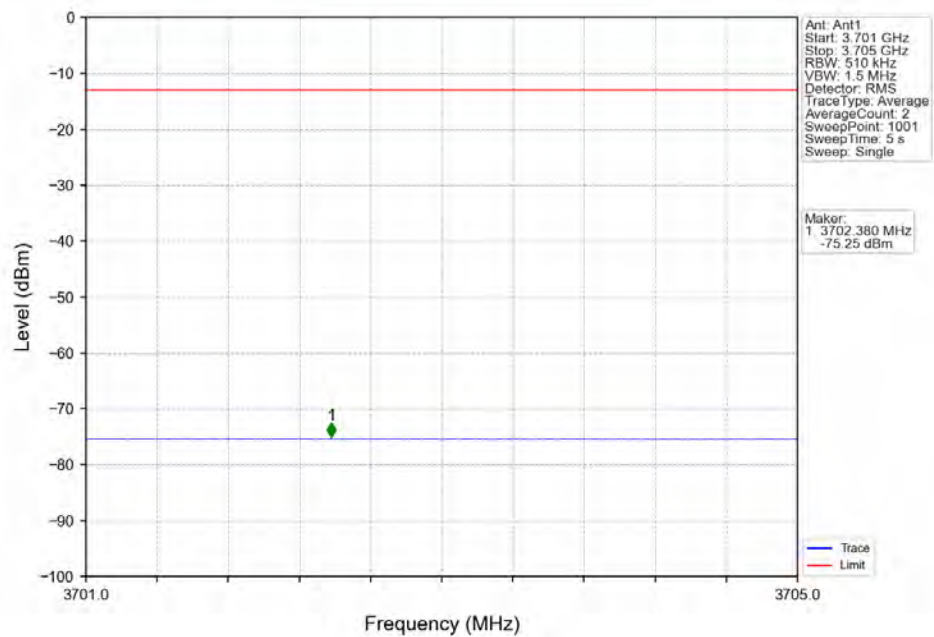
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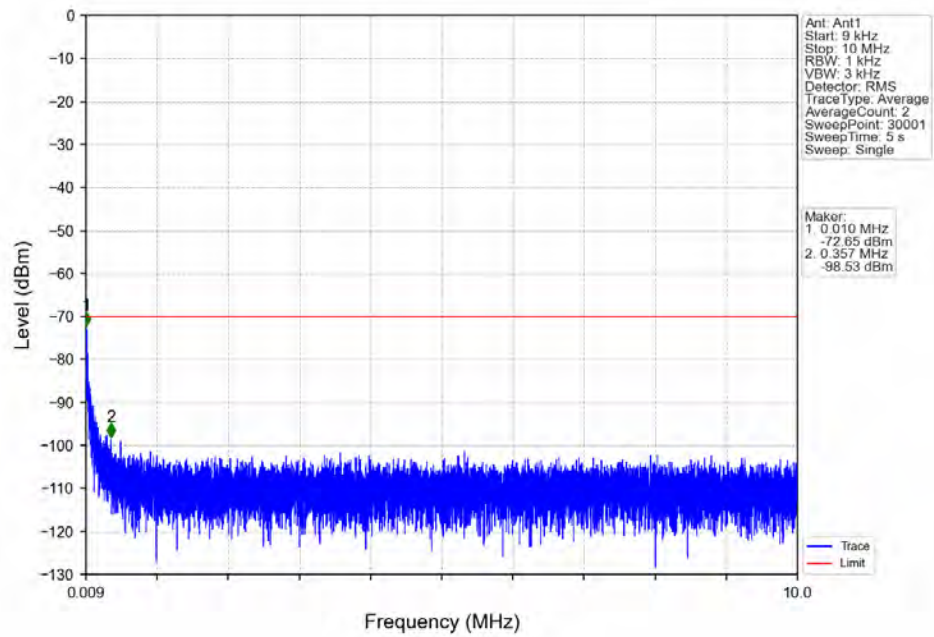
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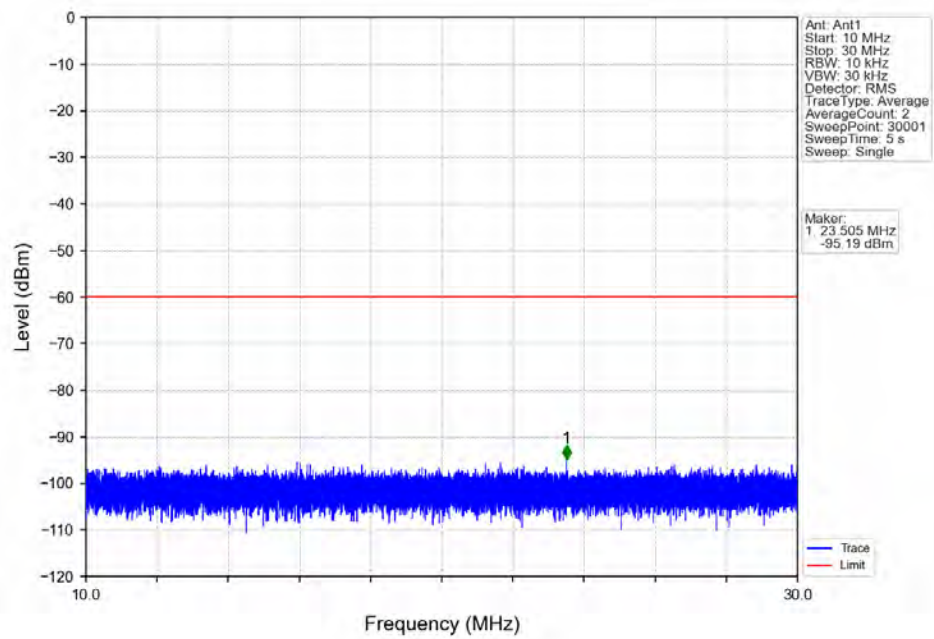
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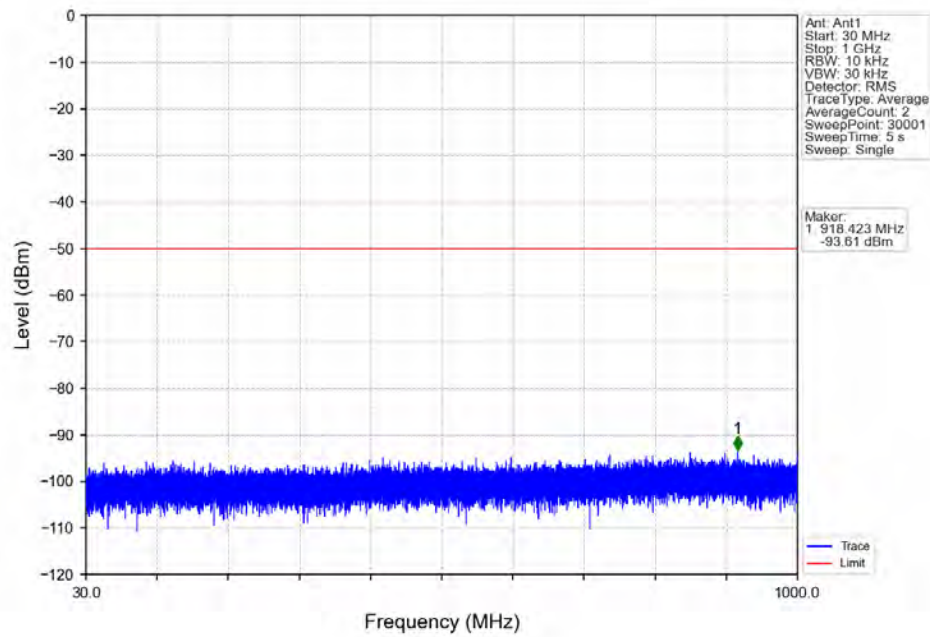
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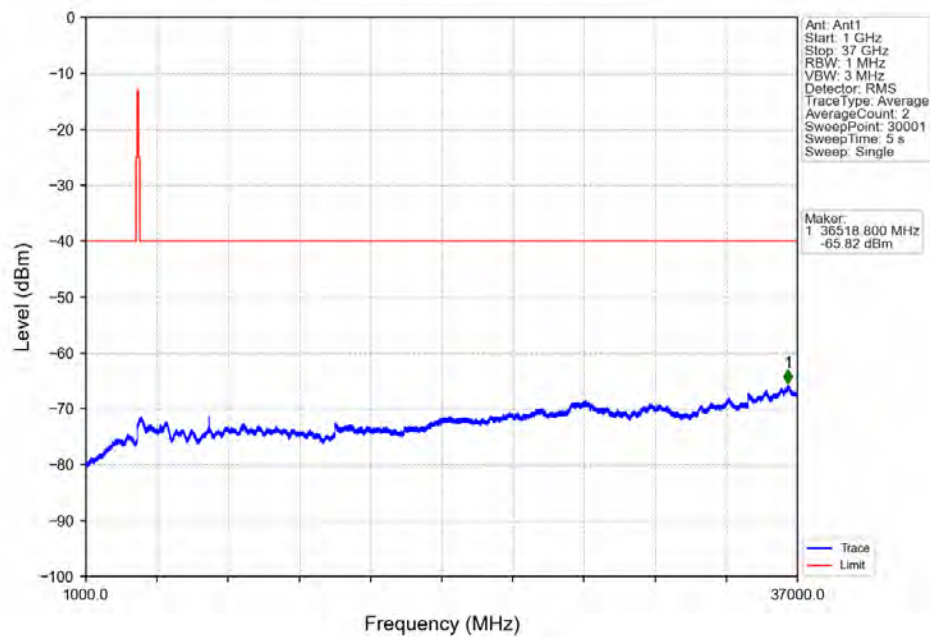
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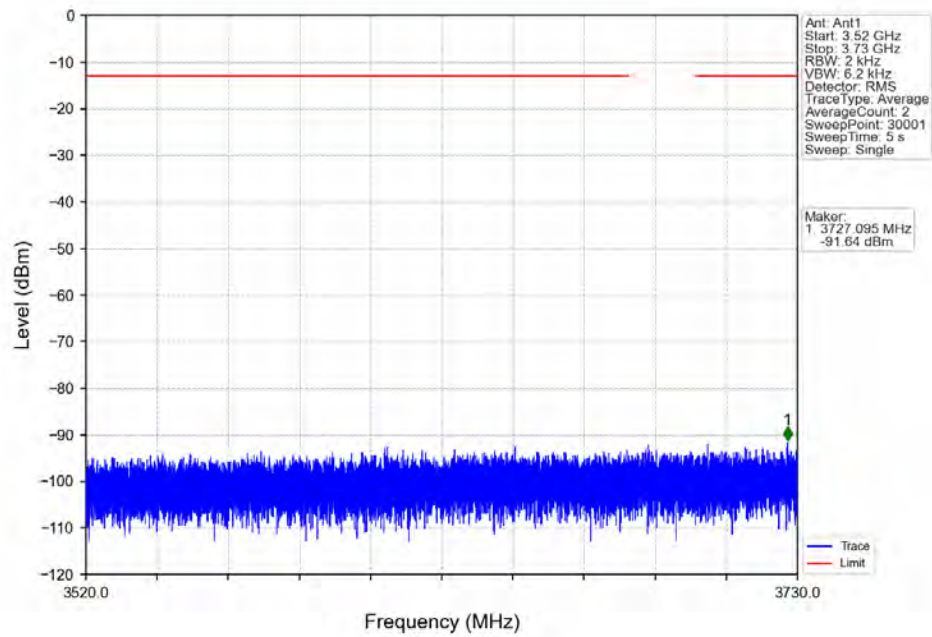
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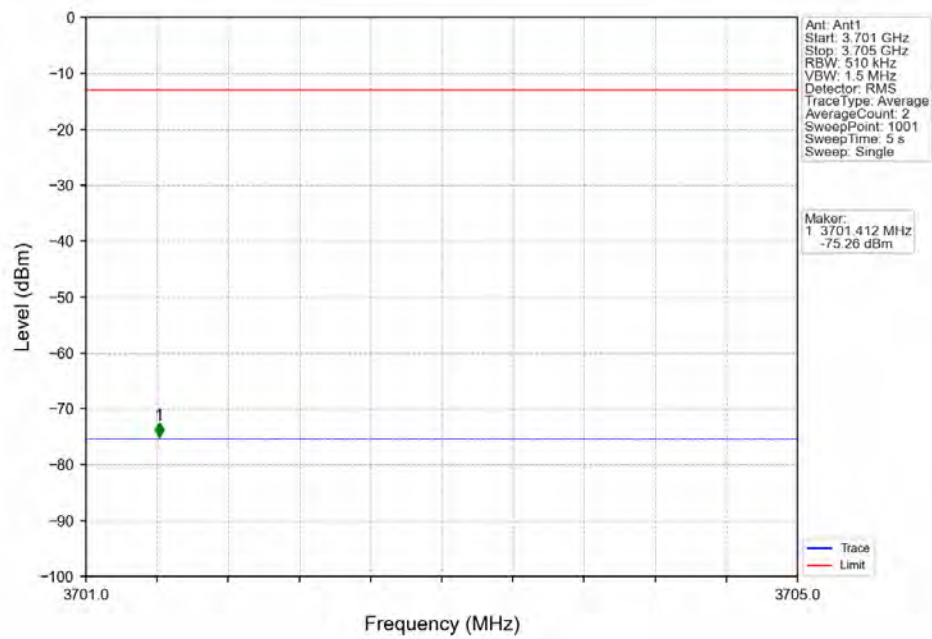
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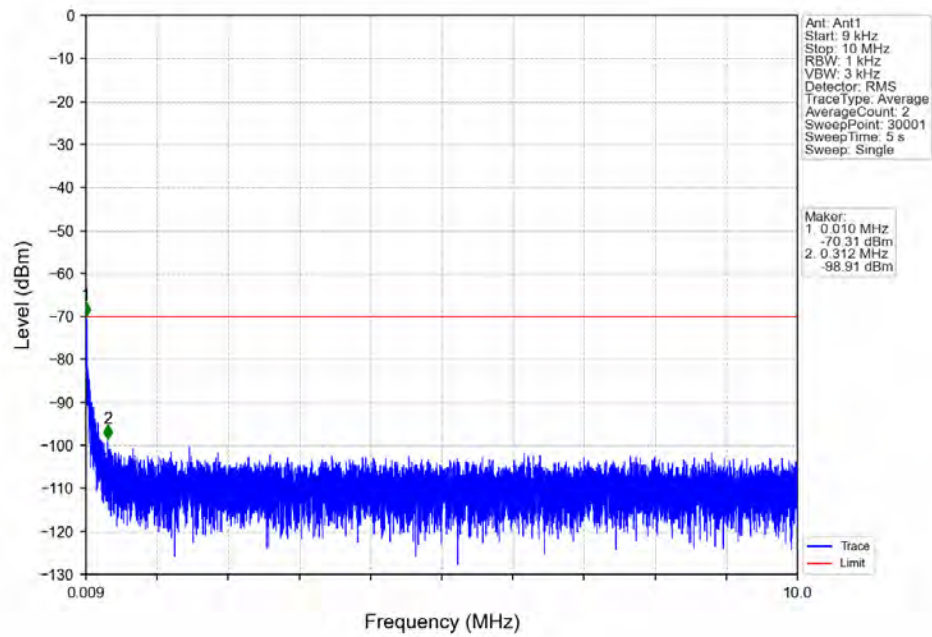
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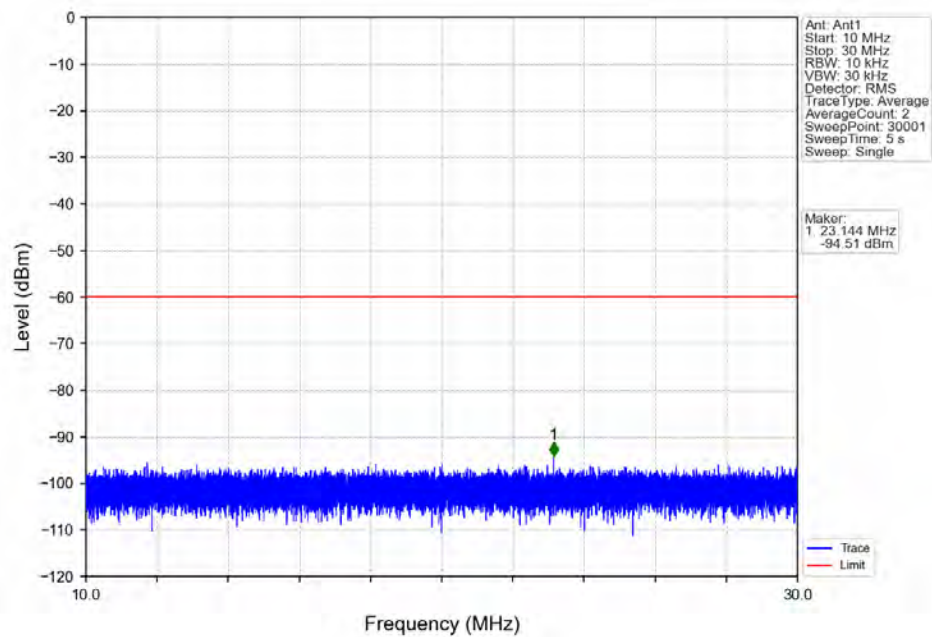
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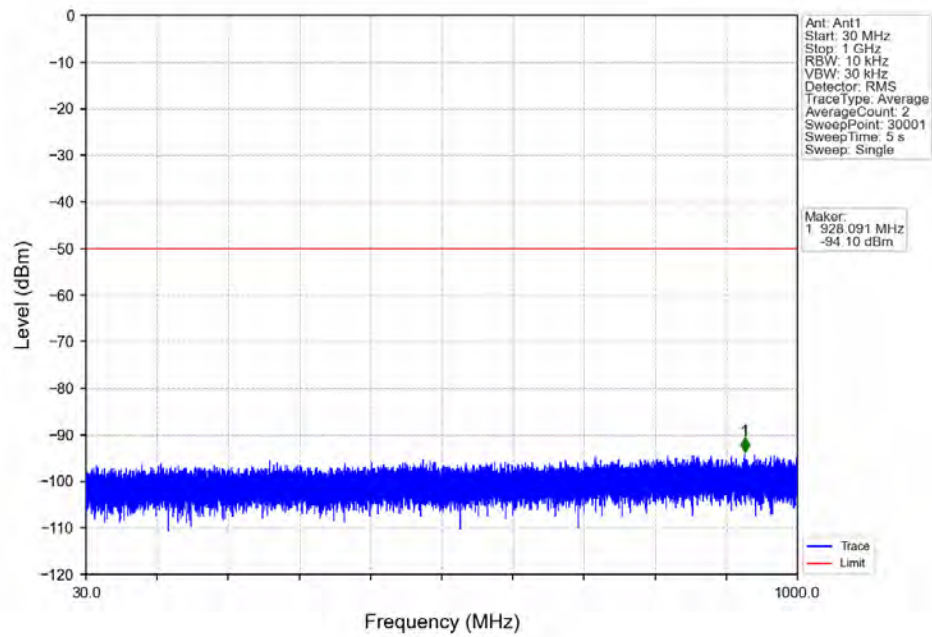
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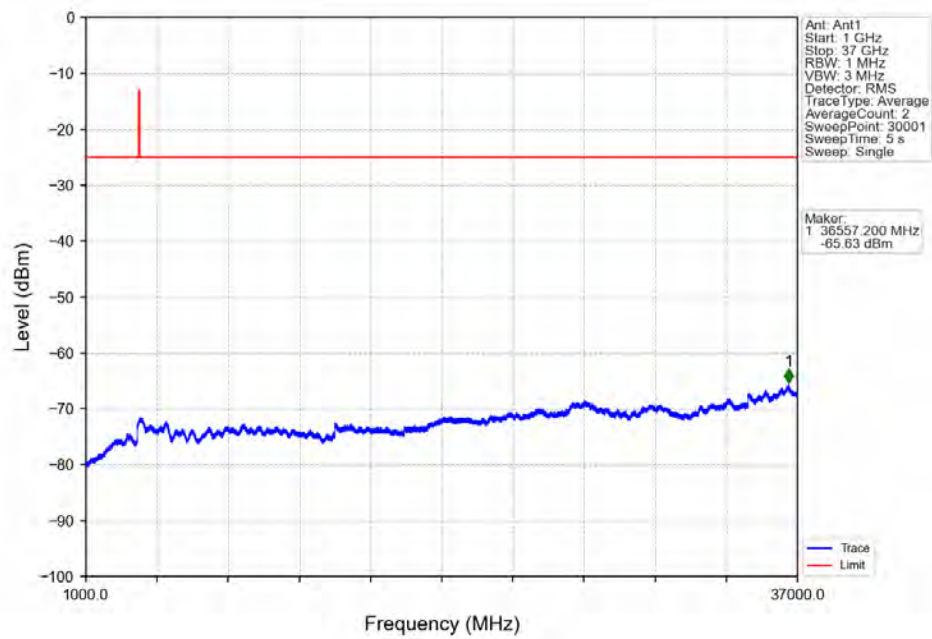
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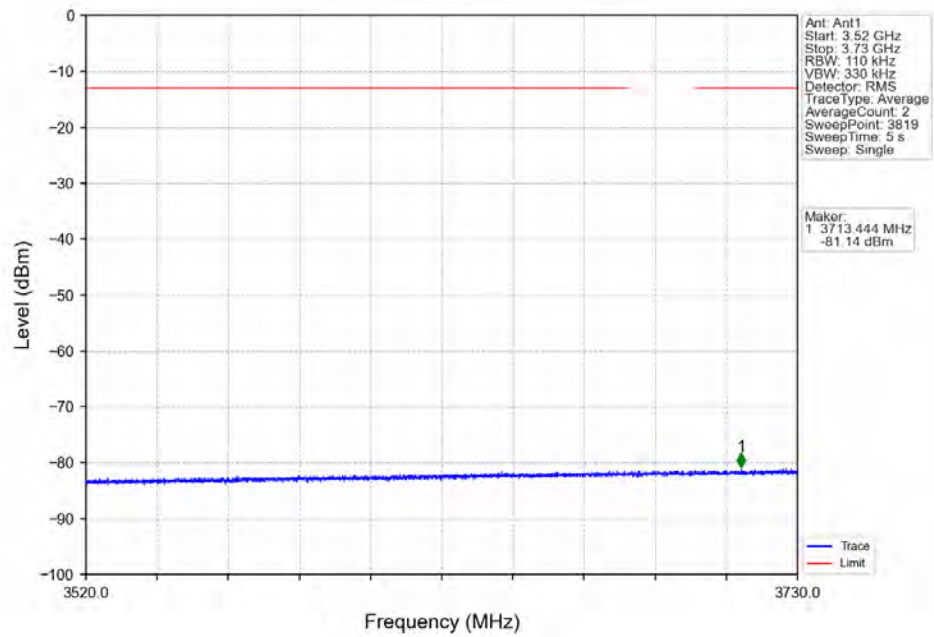
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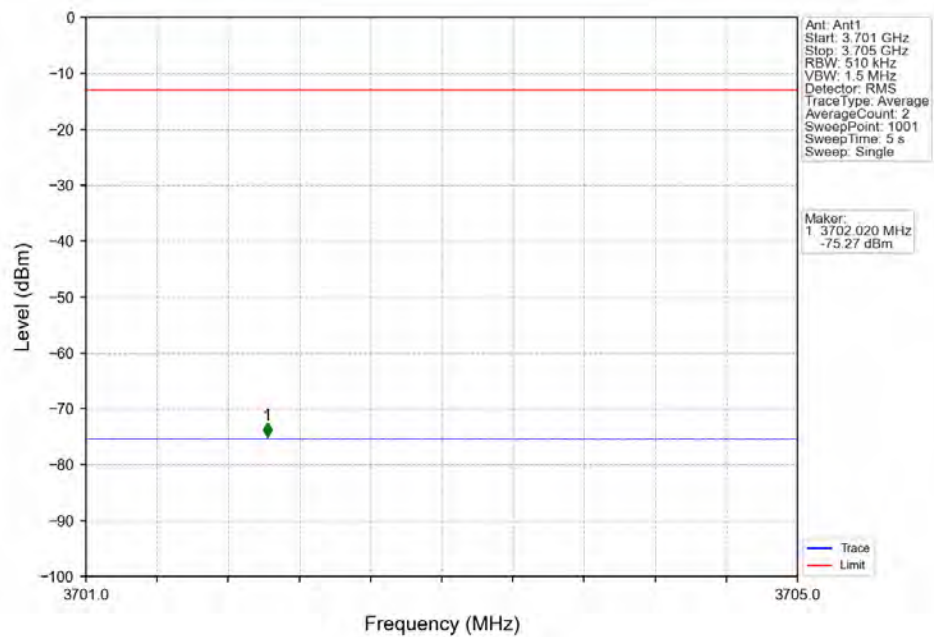
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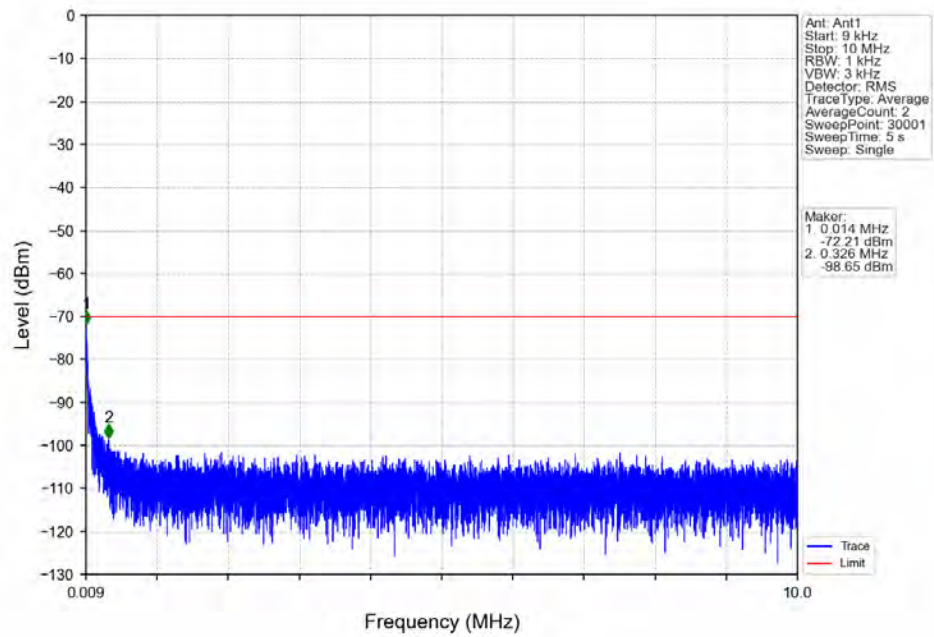
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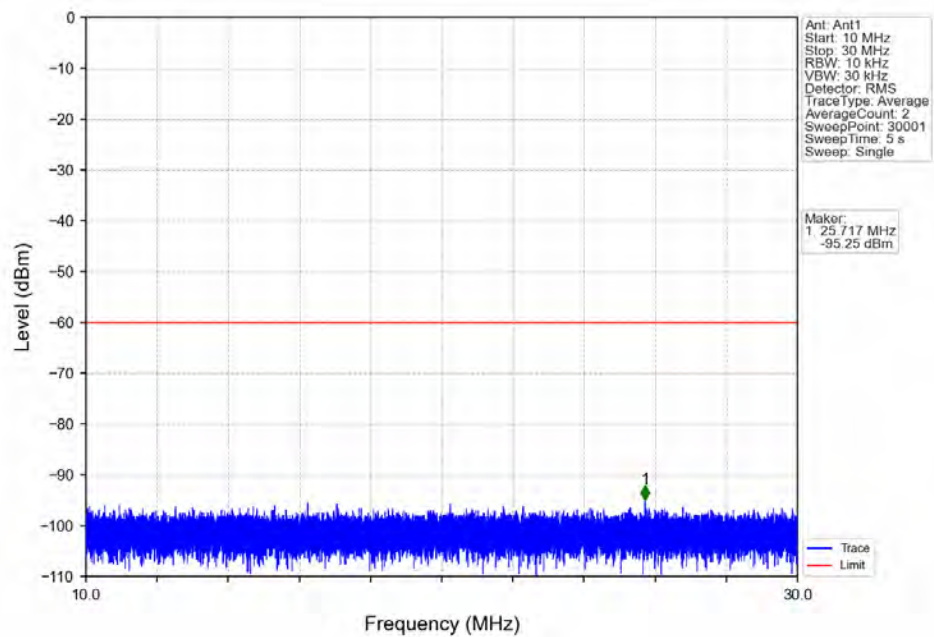
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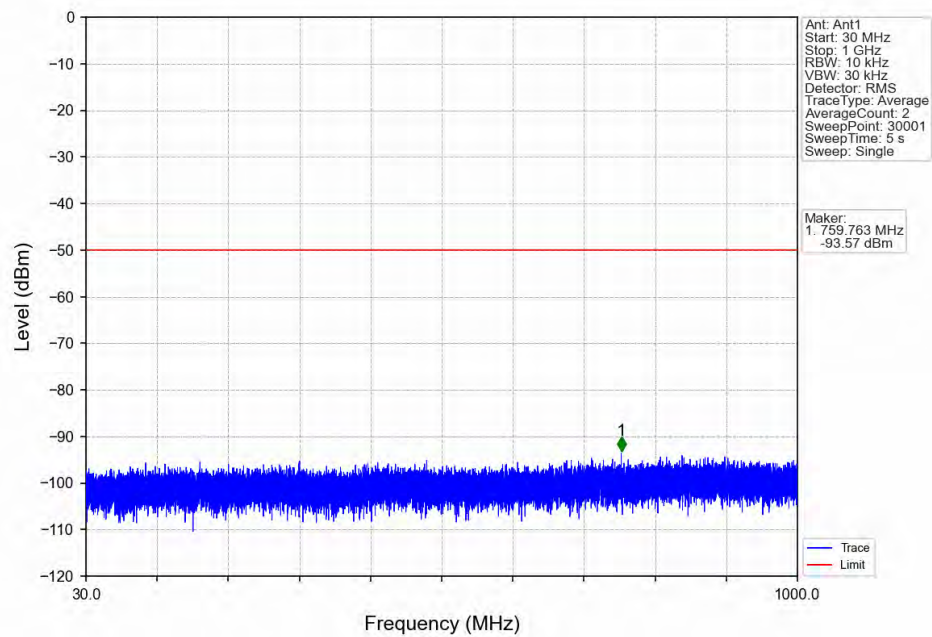
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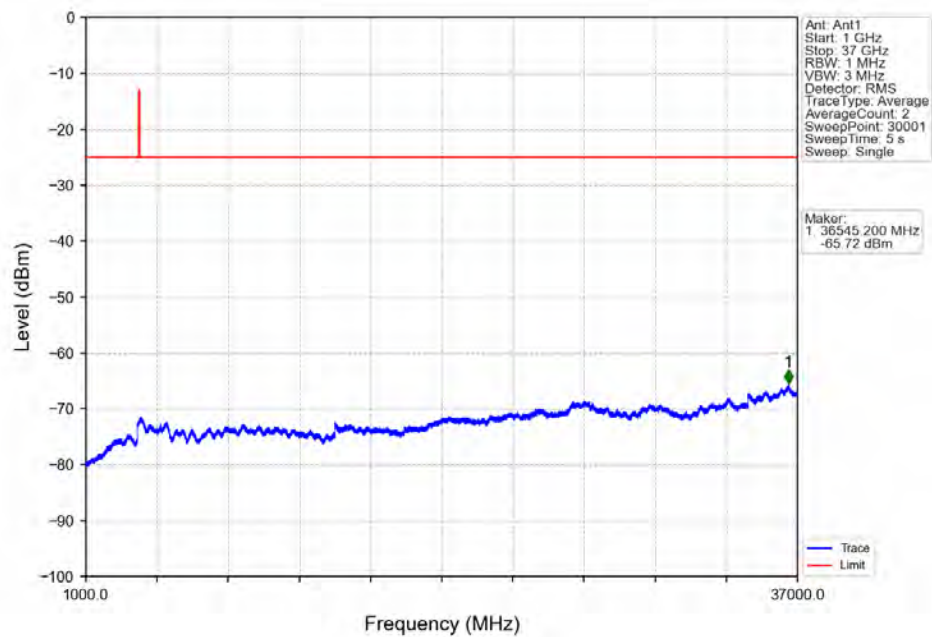
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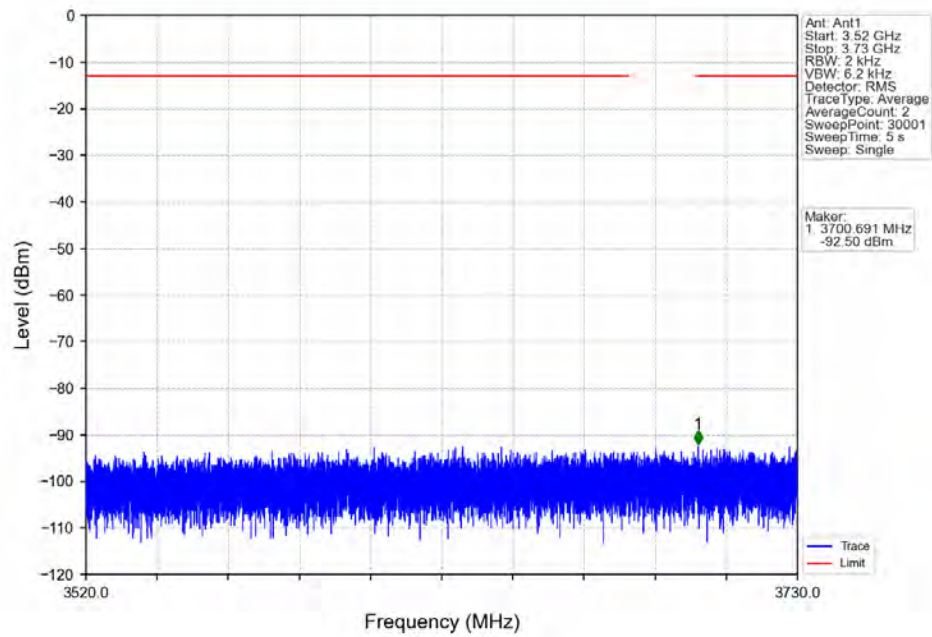
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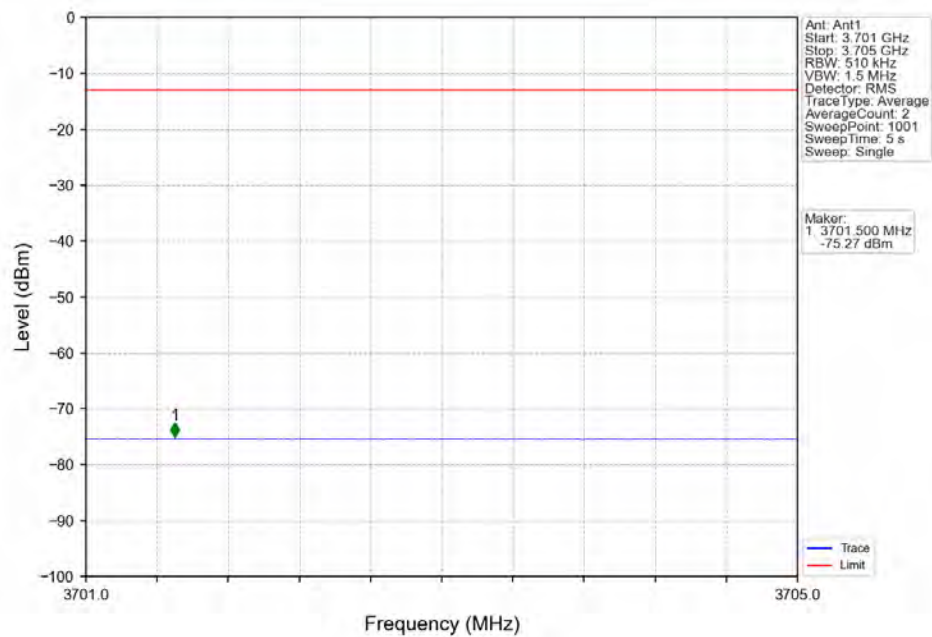
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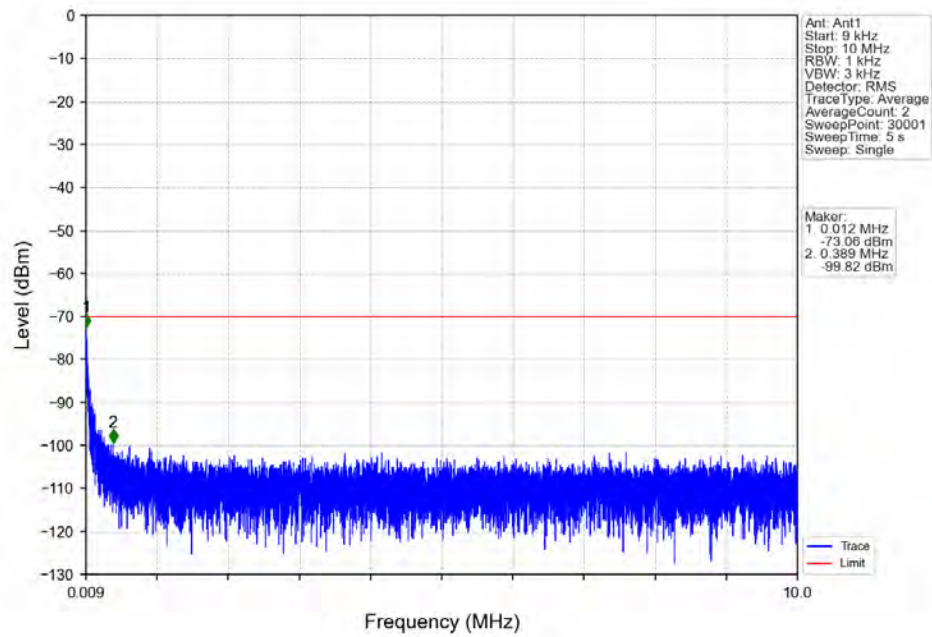
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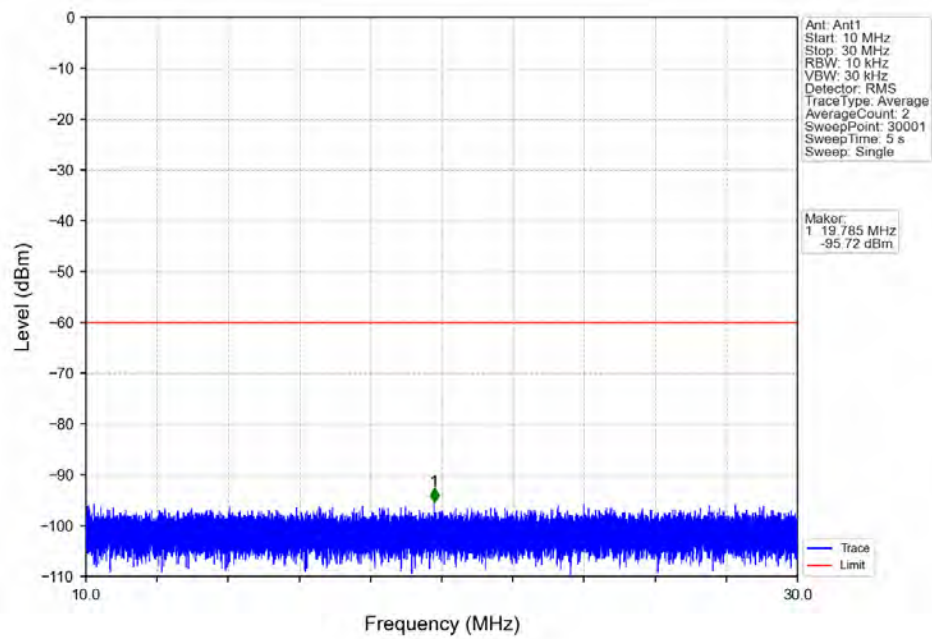
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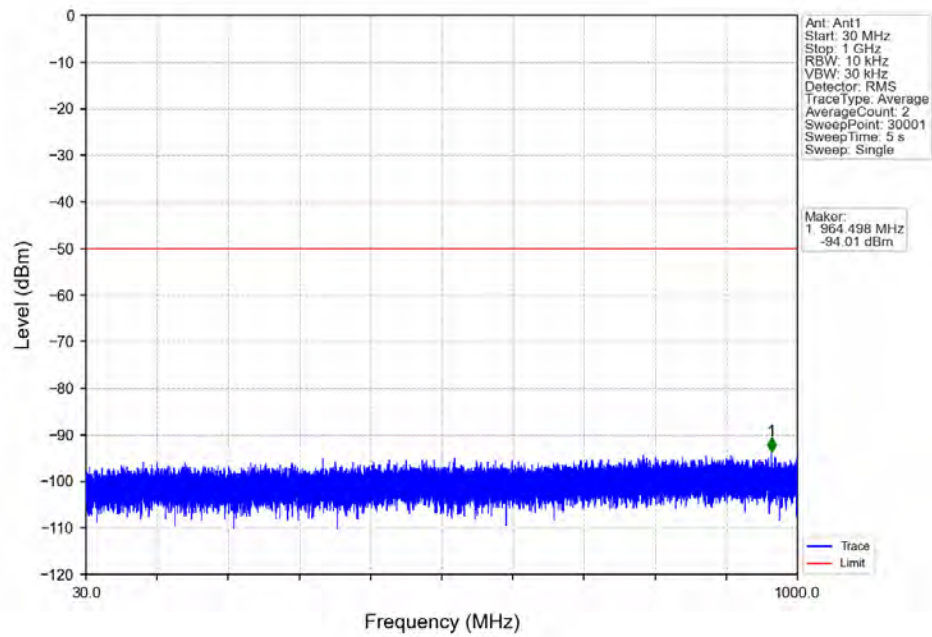
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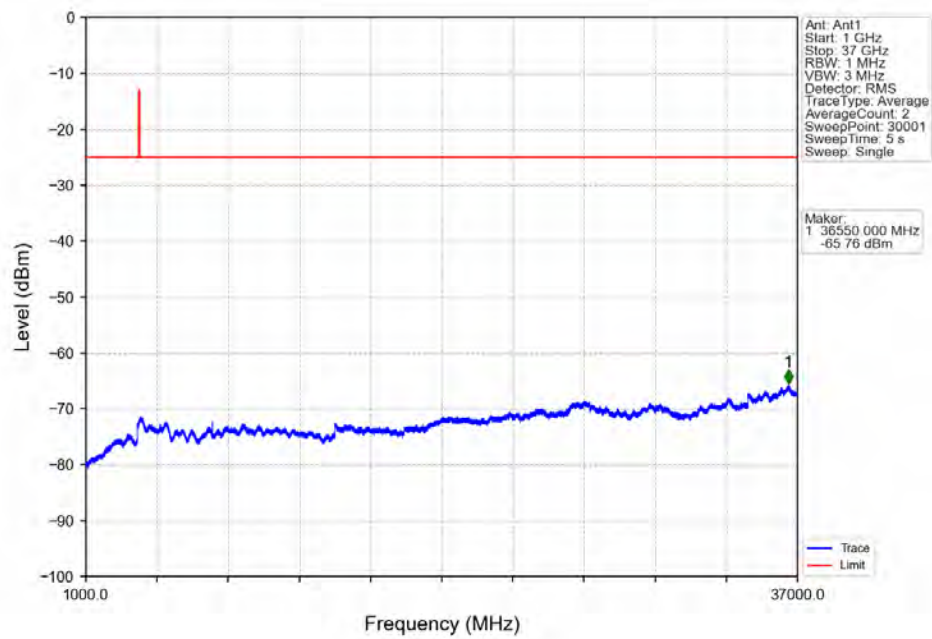
n48 30kHz SISO NTN 20MHz CP-OFDM QPSK 3690MHz Inner 1RB Right



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



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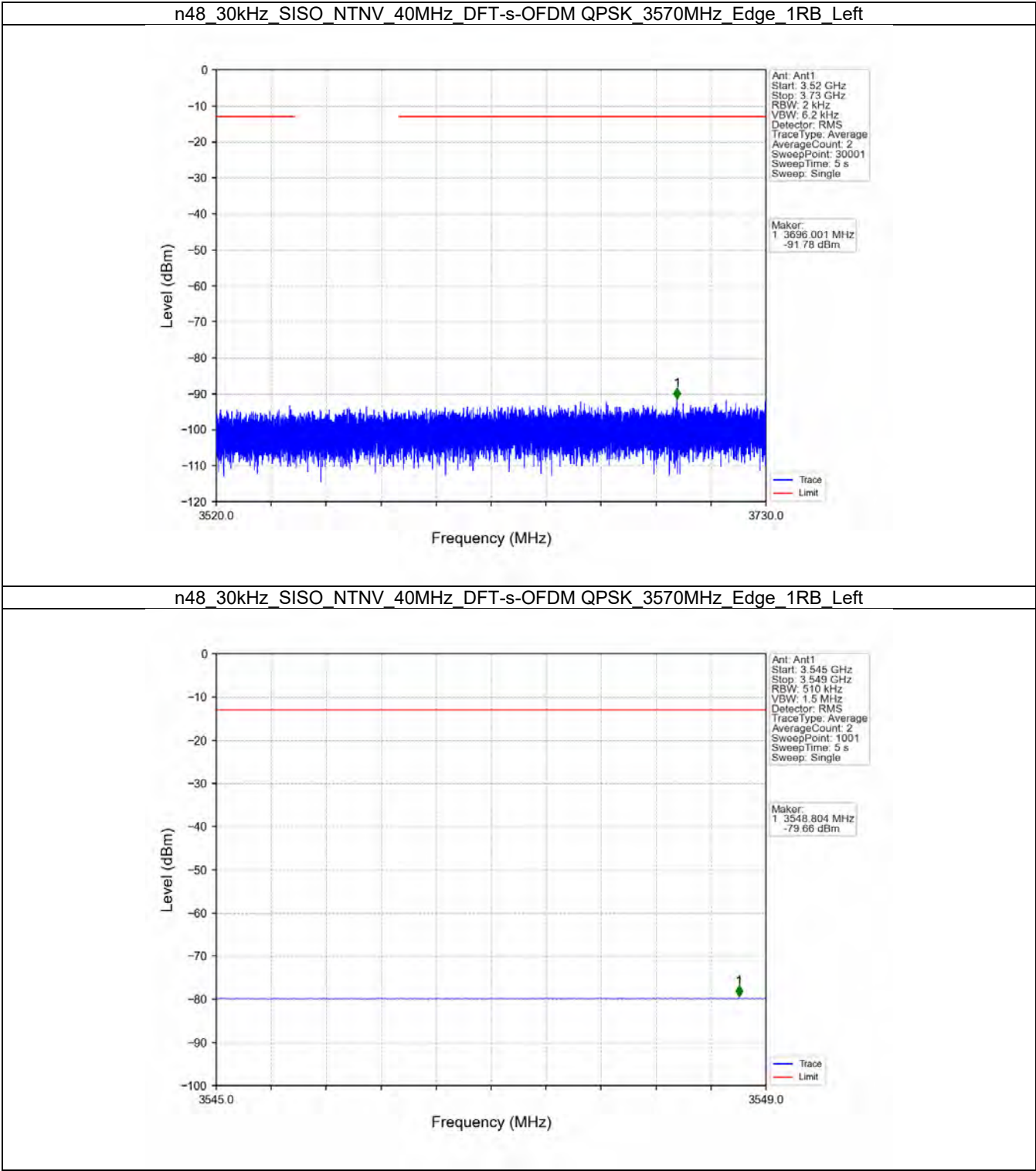


1.3 30k_SISO_40MHz_NTNV

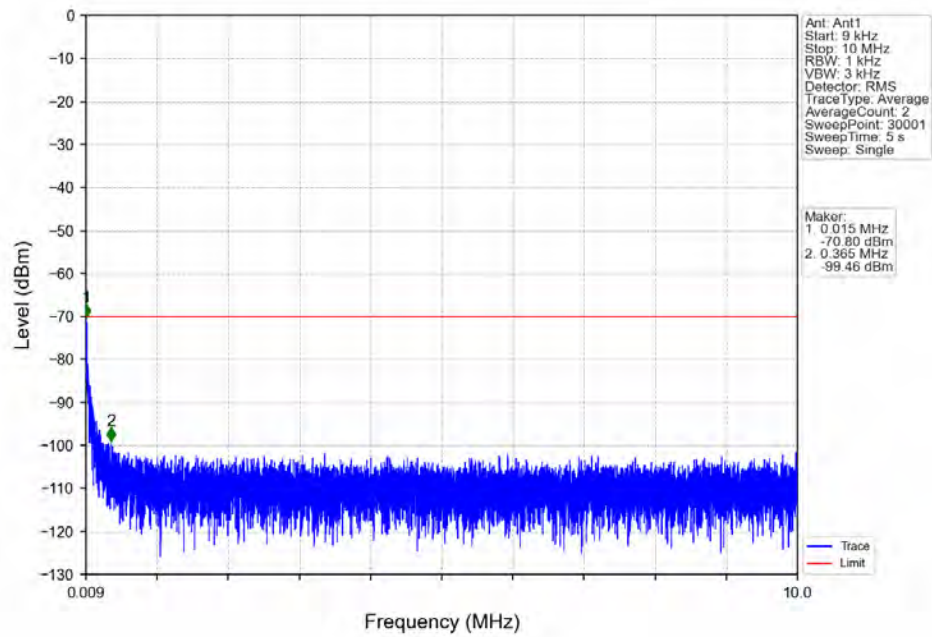
1.3.1 Test Result

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

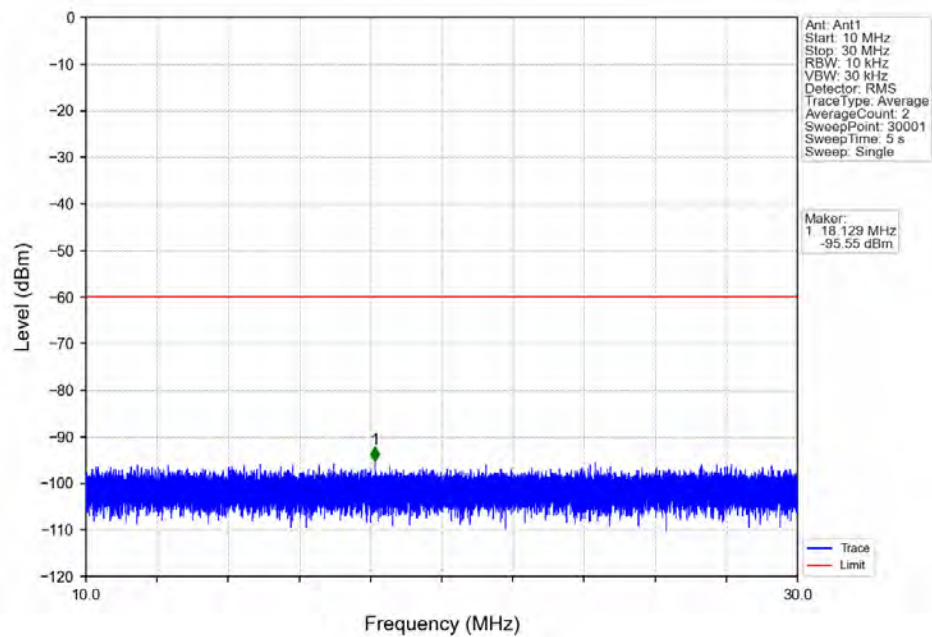
1.3.2 Test Graph



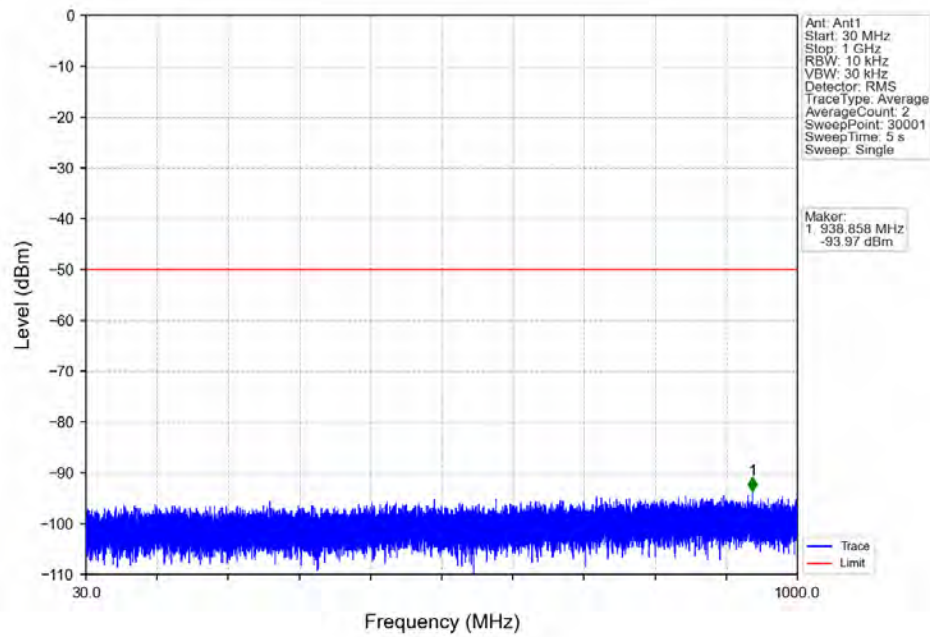
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3570MHz Edge 1RB Left



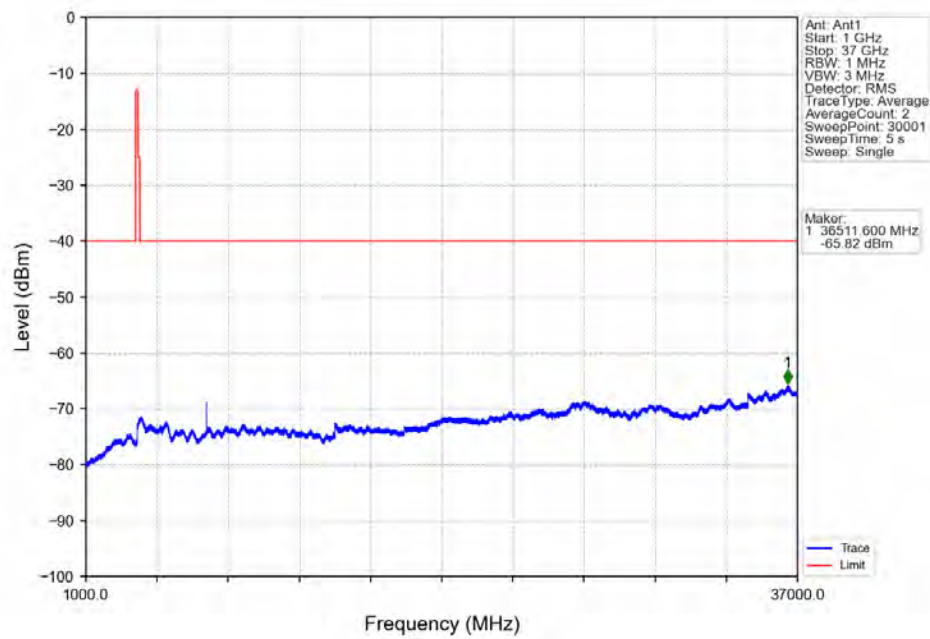
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3570MHz Edge 1RB Left



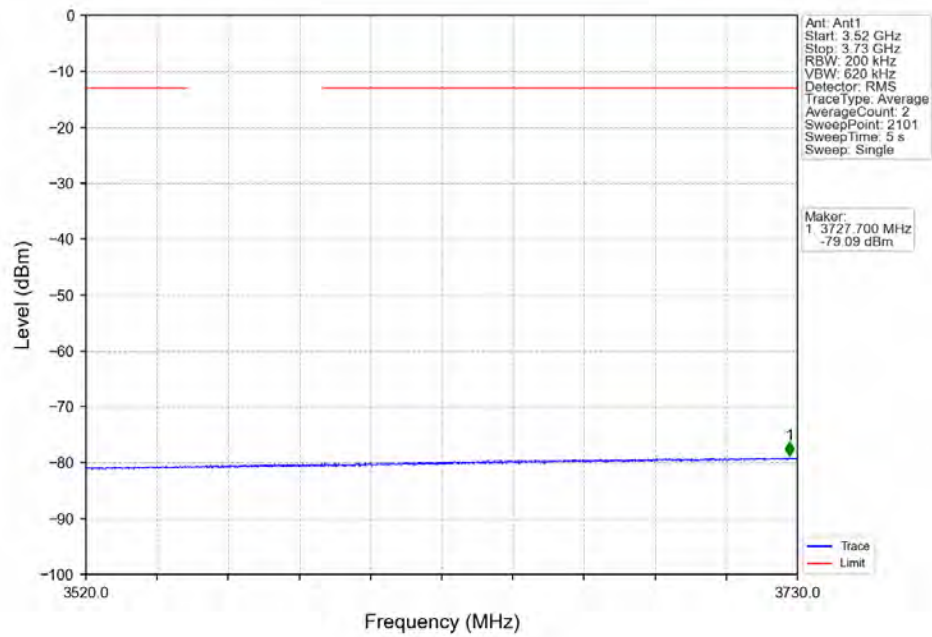
n48 30kHz SISO NTV 40MHz DFT-s-OFDM QPSK 3570MHz Edge 1RB Left



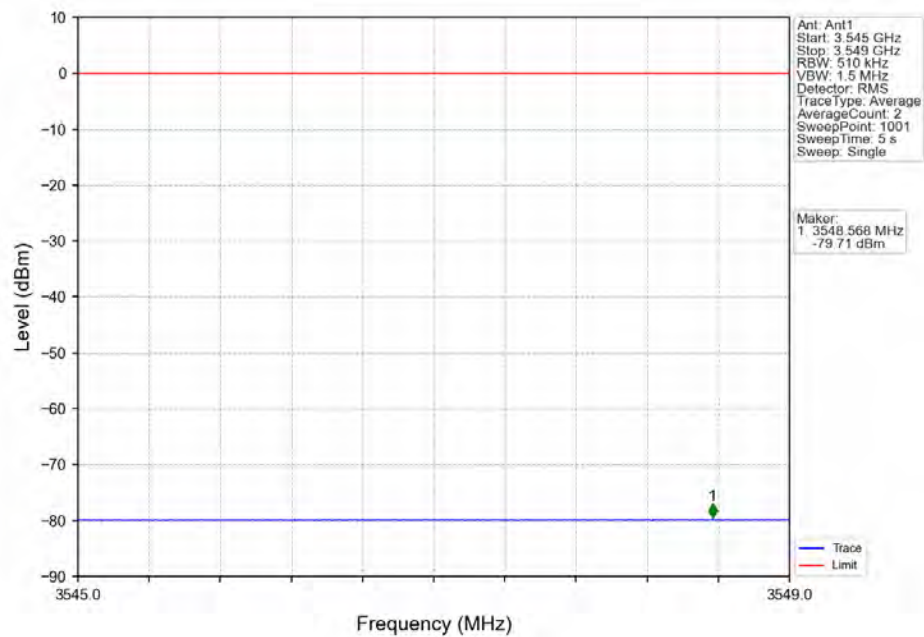
n48 30kHz SISO NTV 40MHz DFT-s-OFDM QPSK 3570MHz Edge 1RB Left



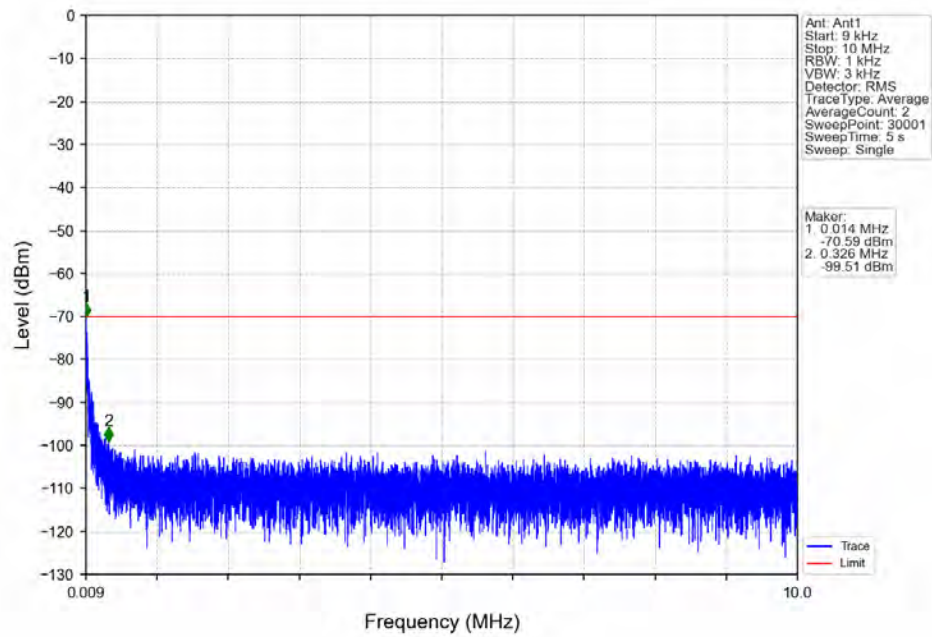
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3570MHz Outer Full



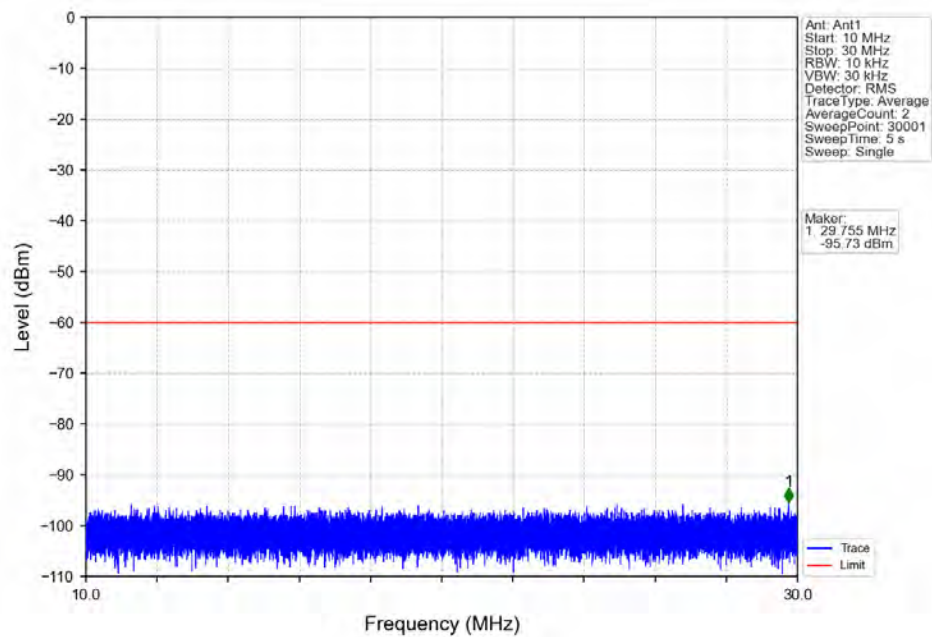
n48 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3570MHz Outer Full



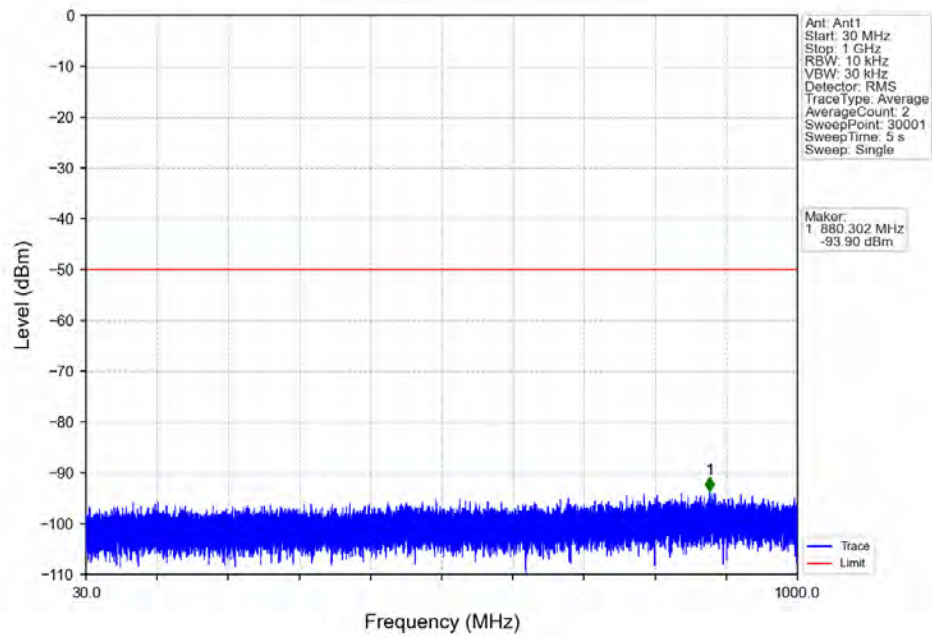
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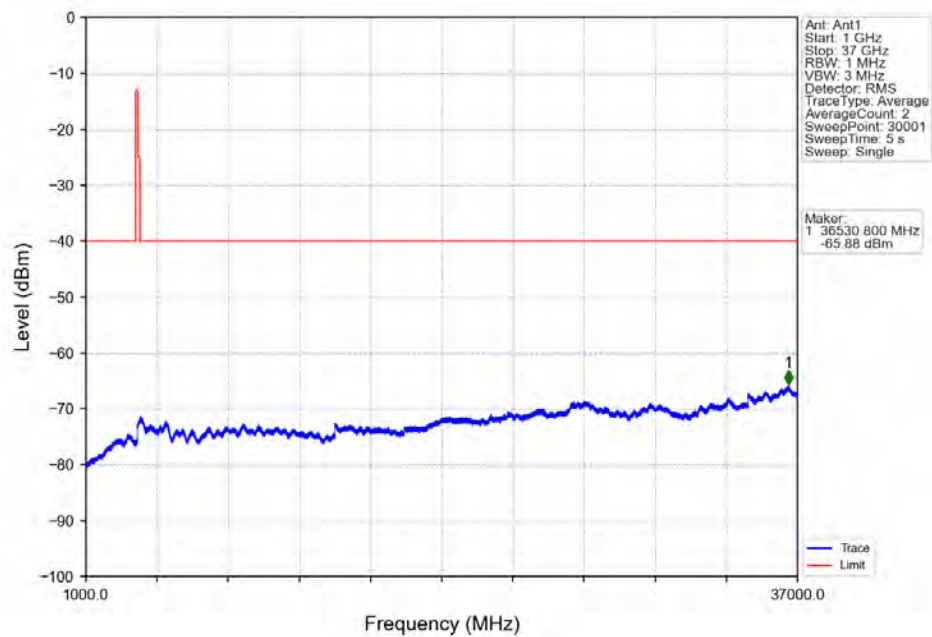
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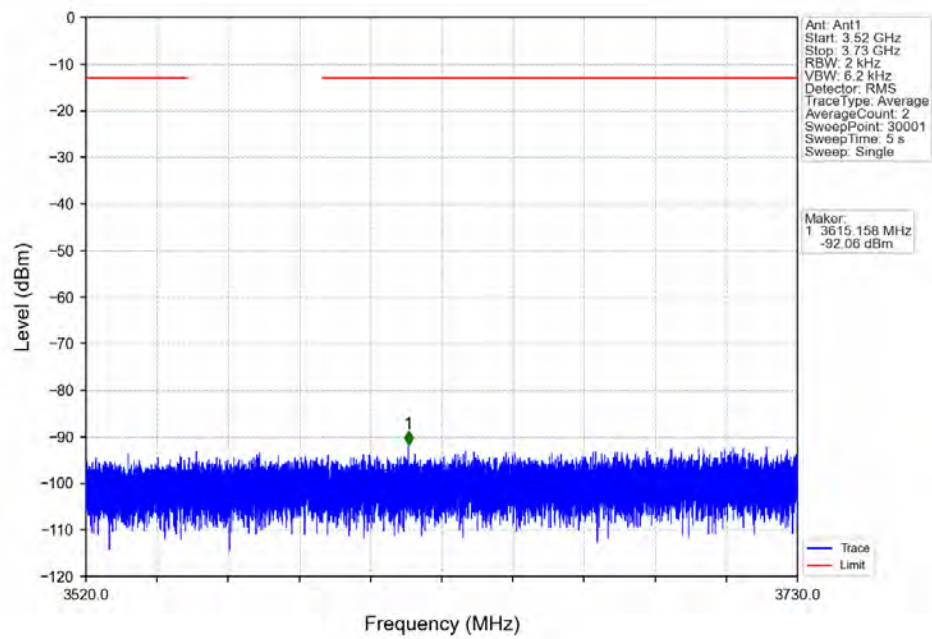
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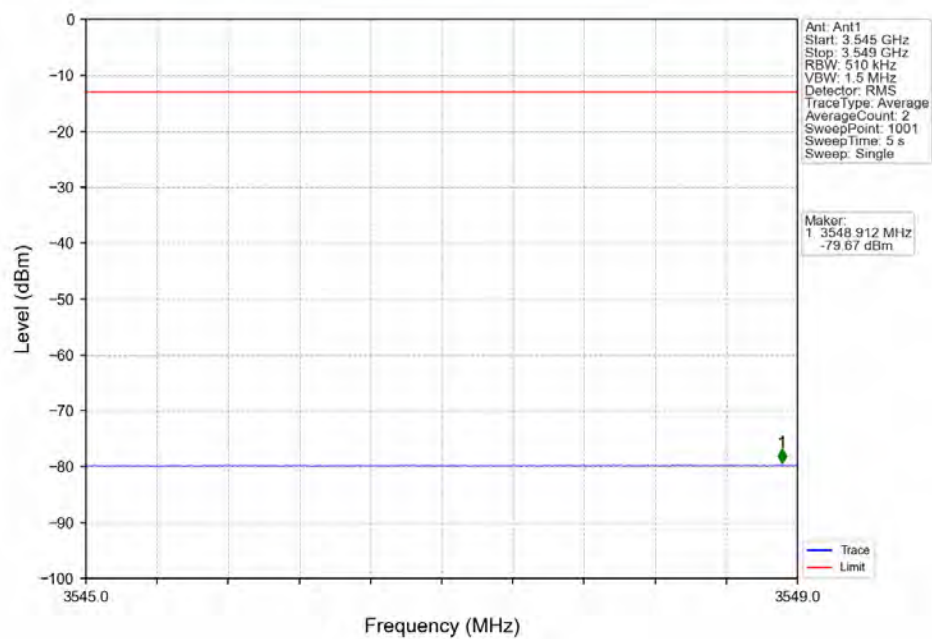
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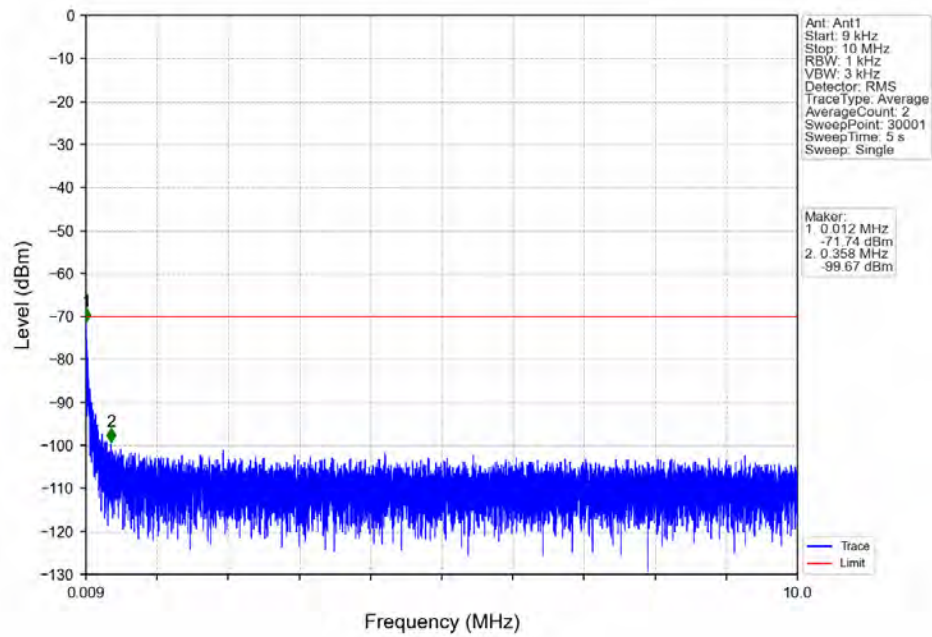
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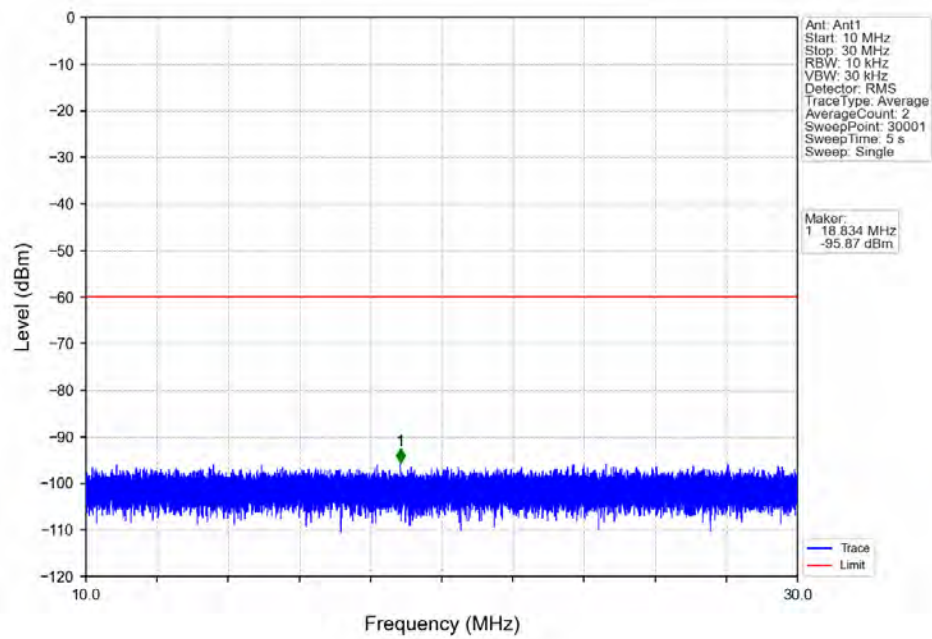
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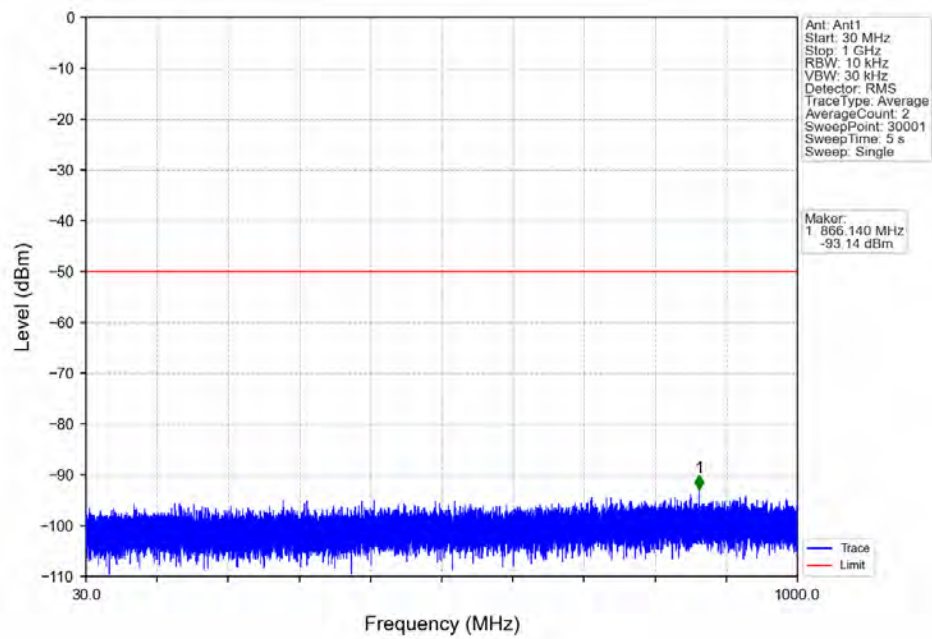
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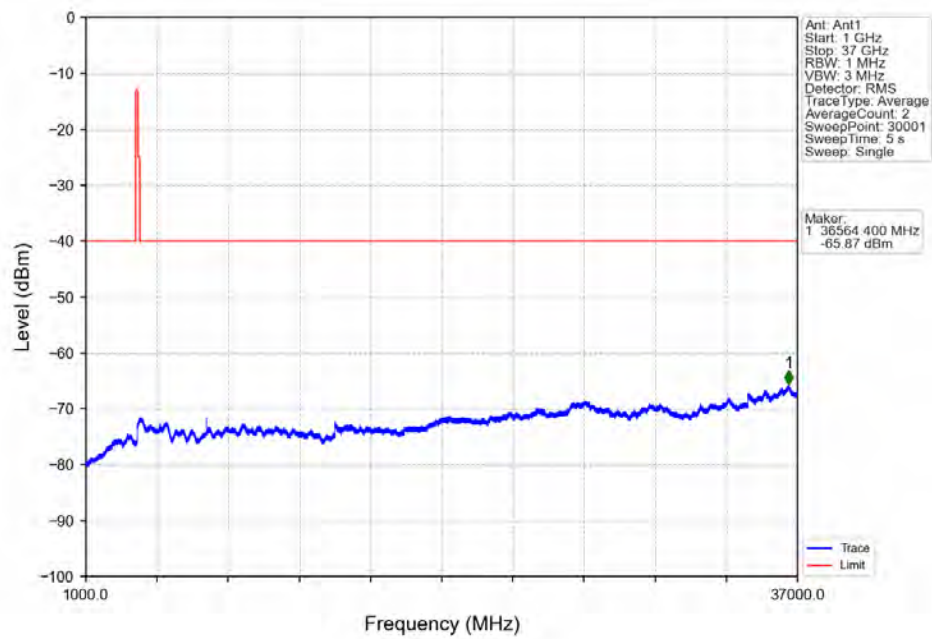
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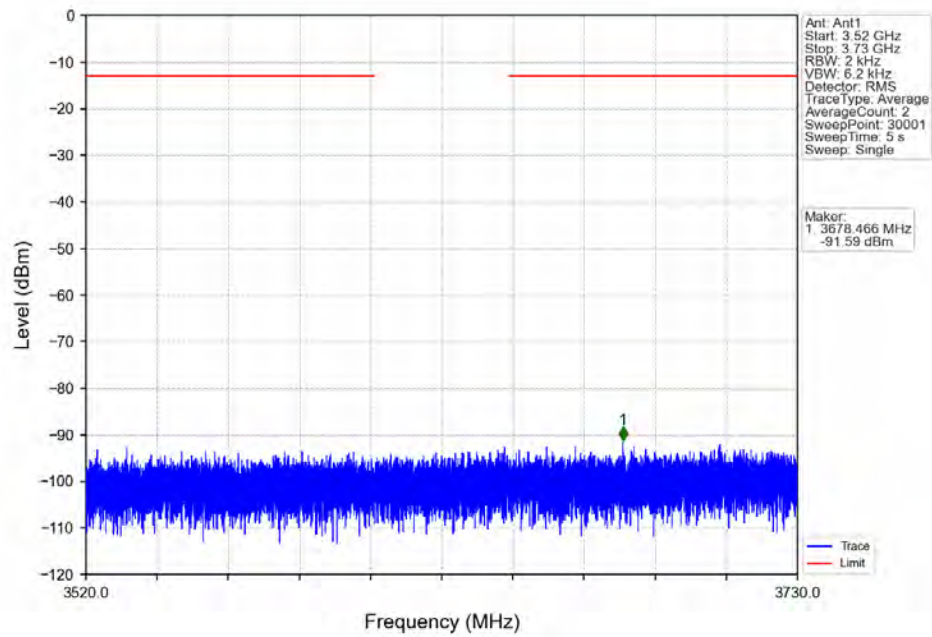
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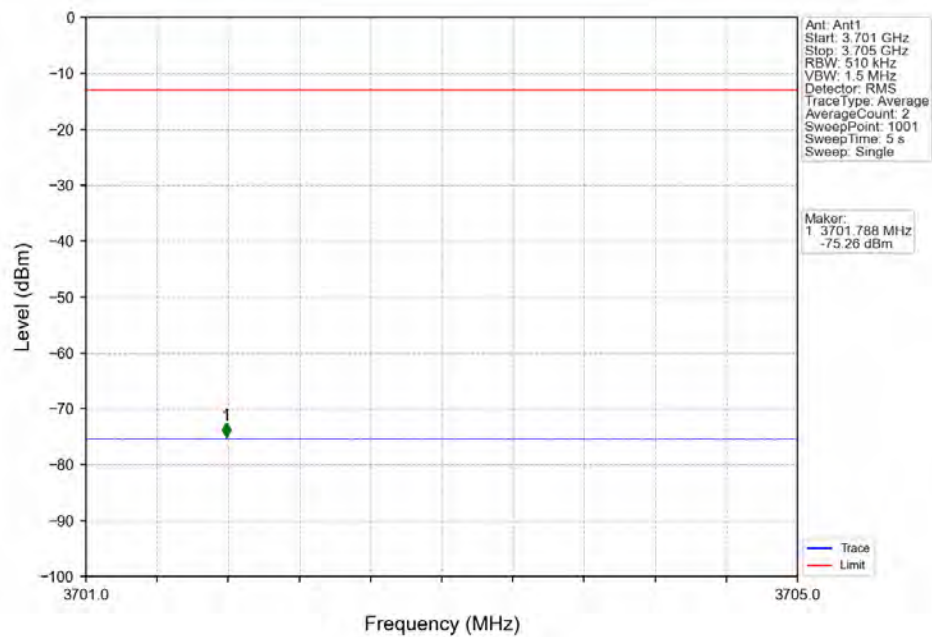
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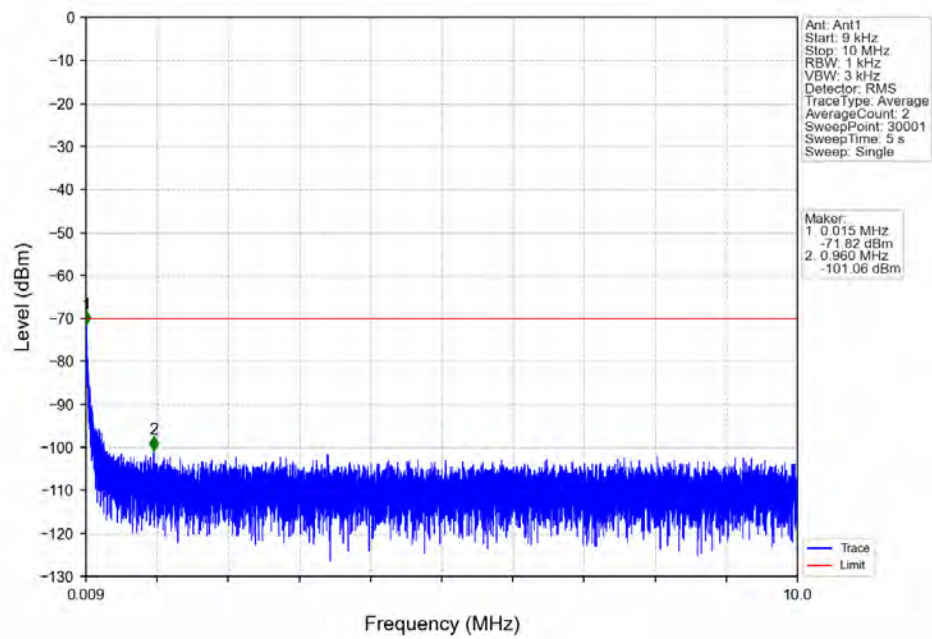
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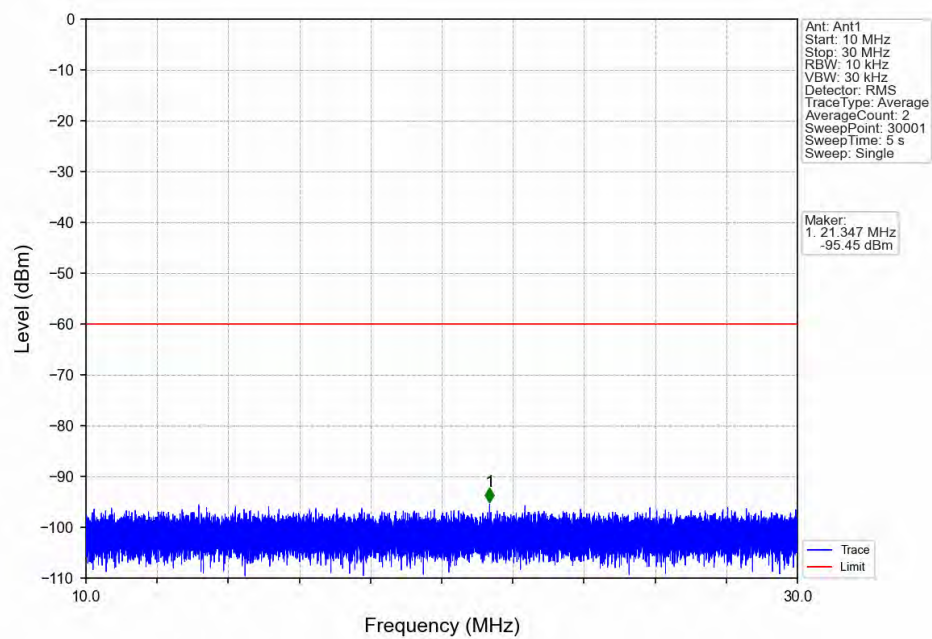
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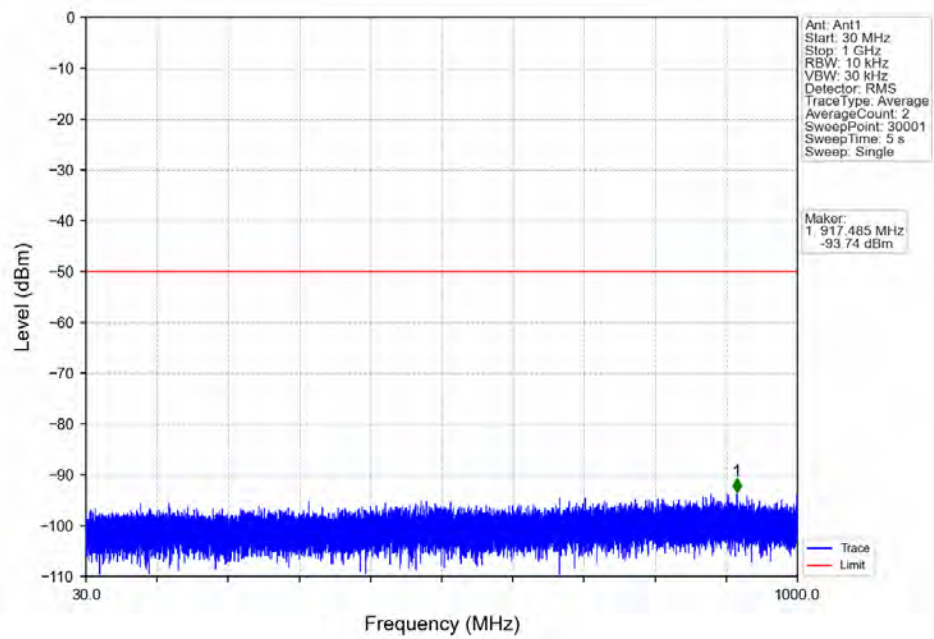
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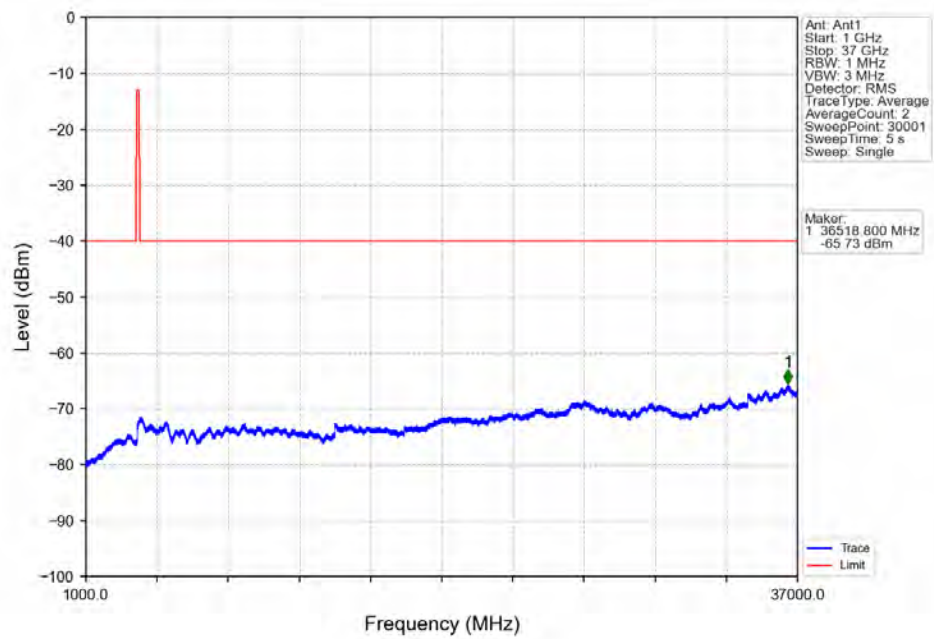
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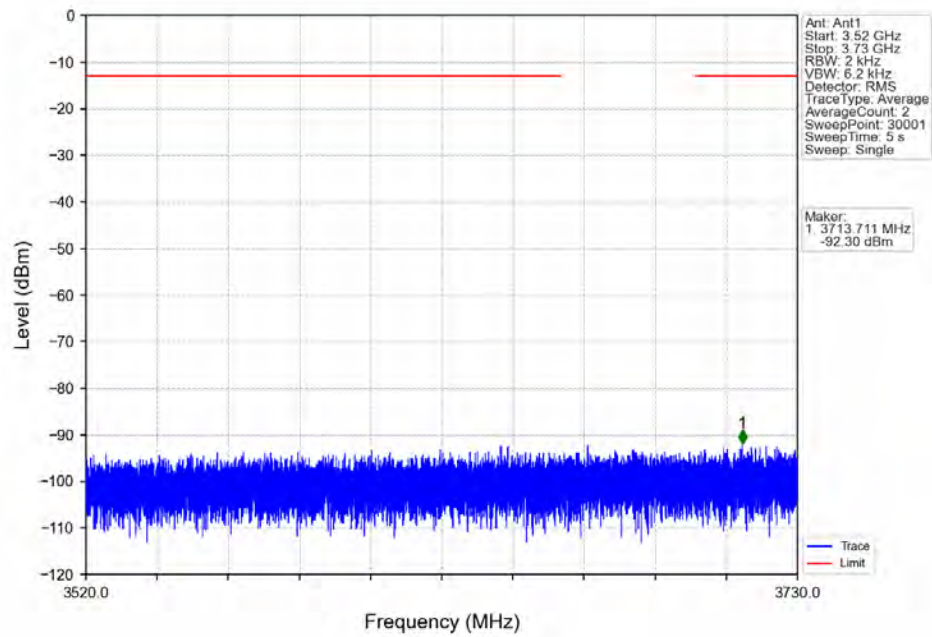
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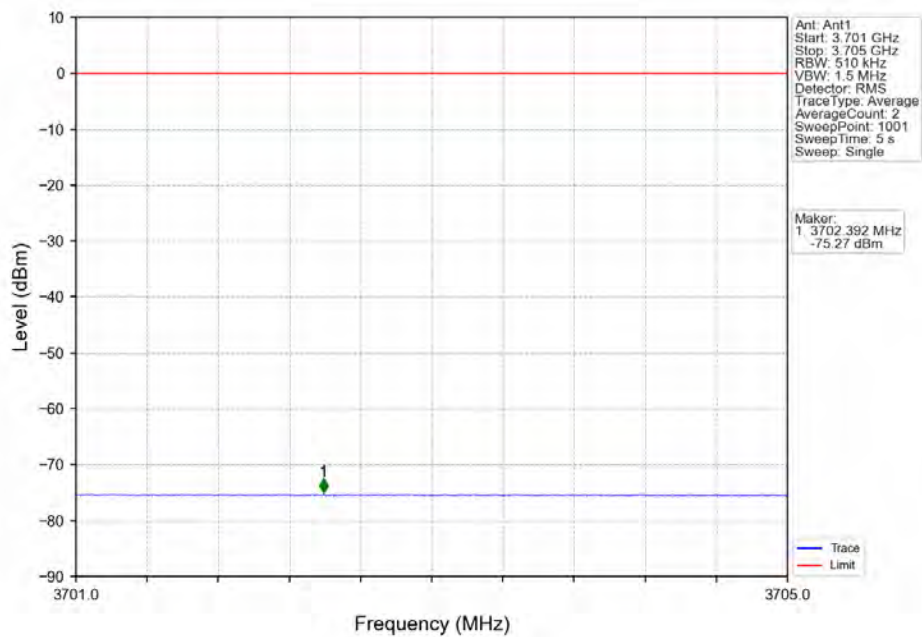
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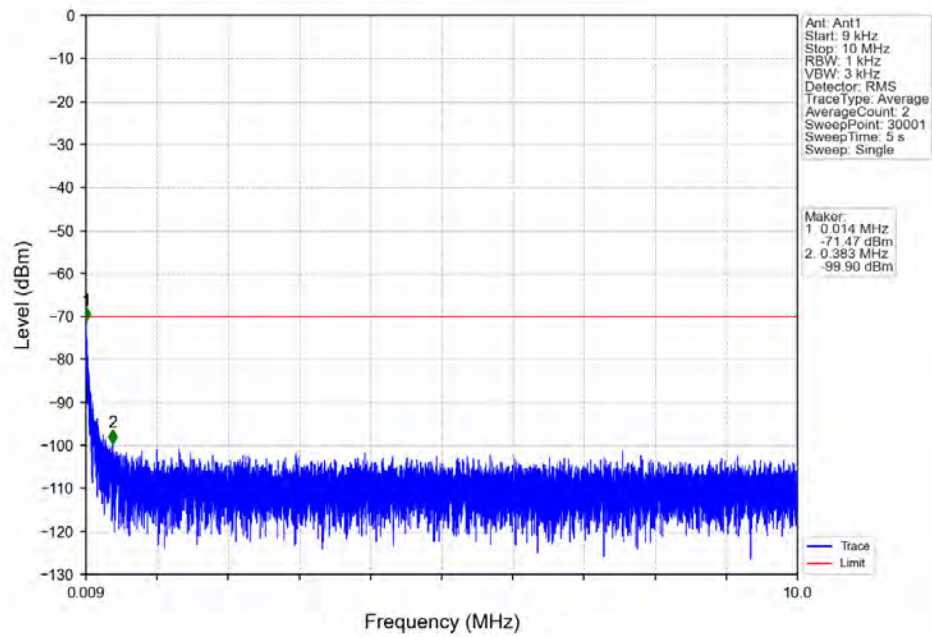
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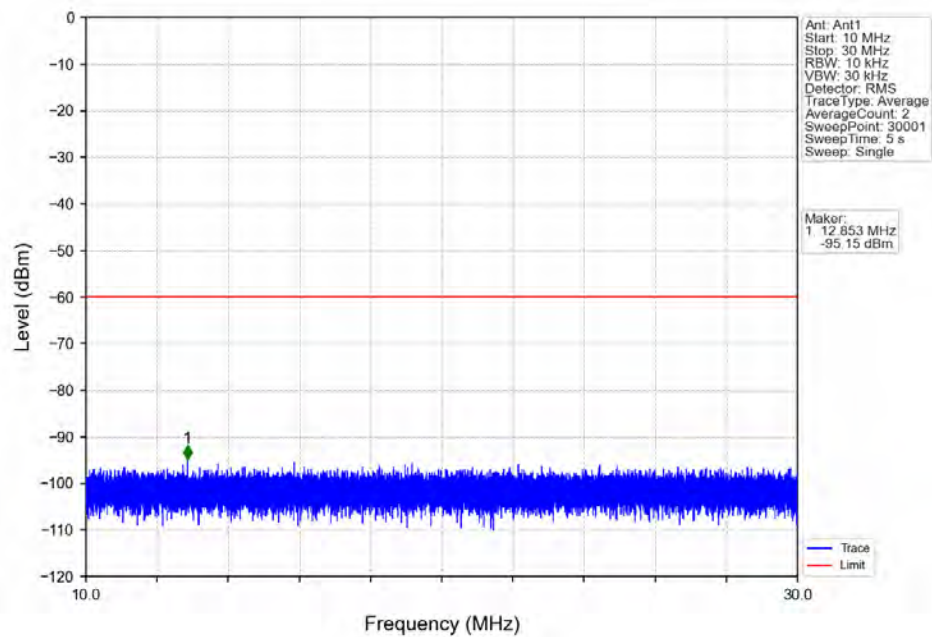
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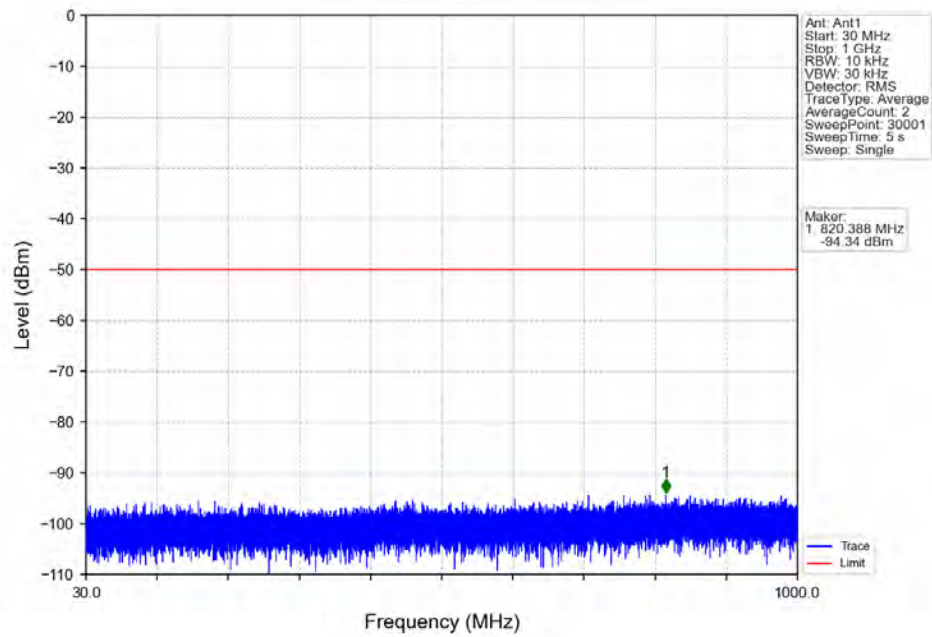
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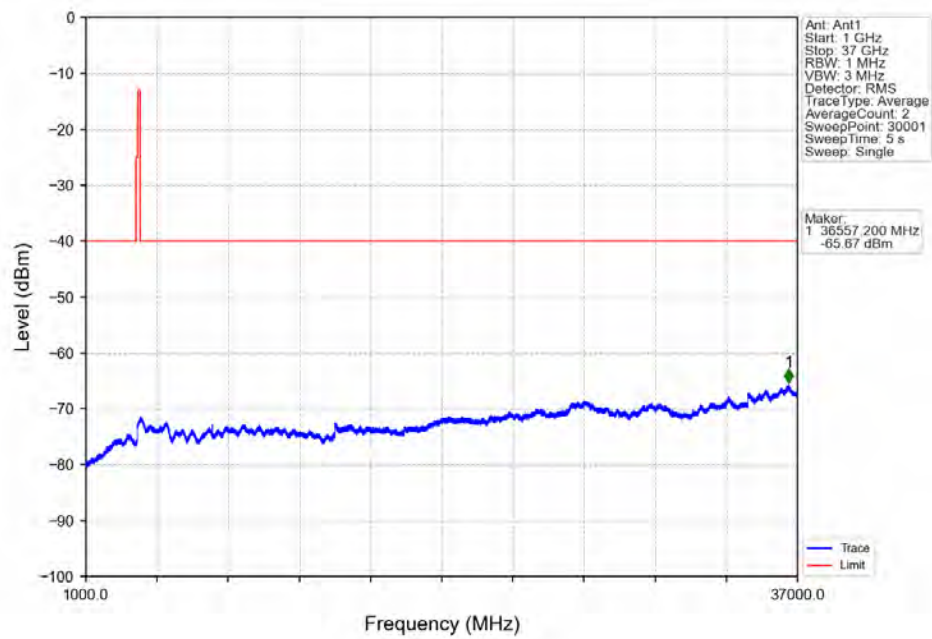
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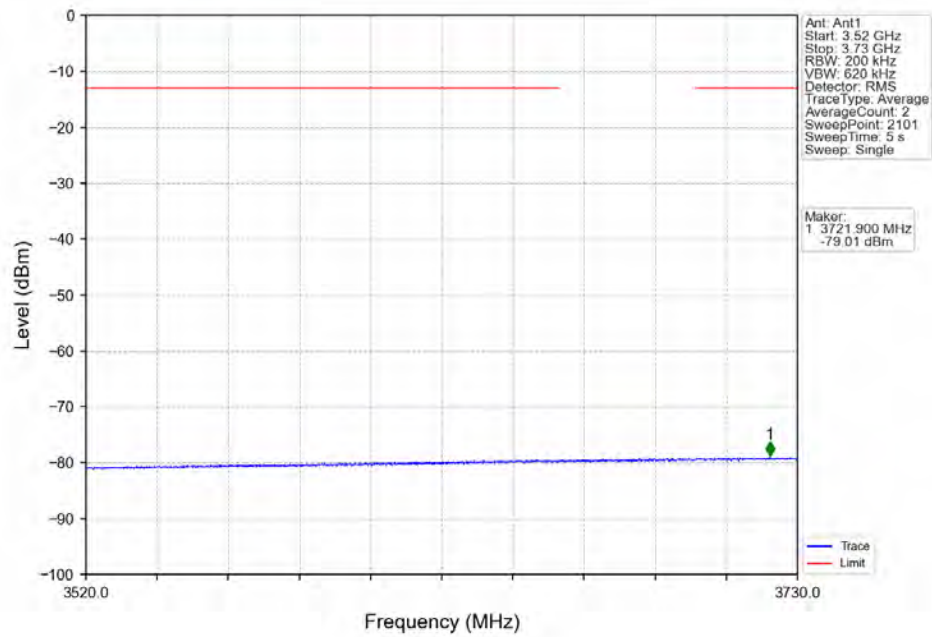
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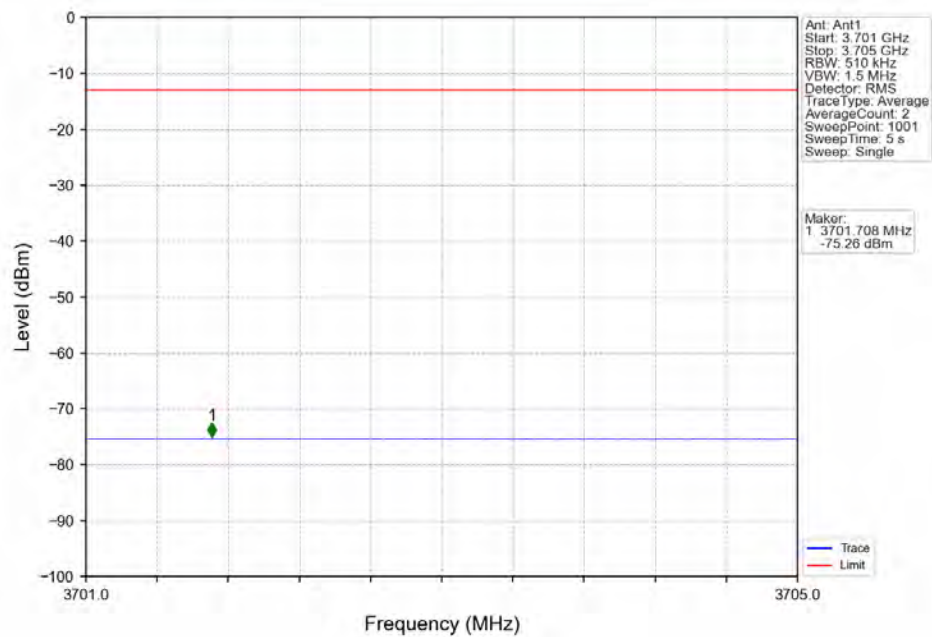
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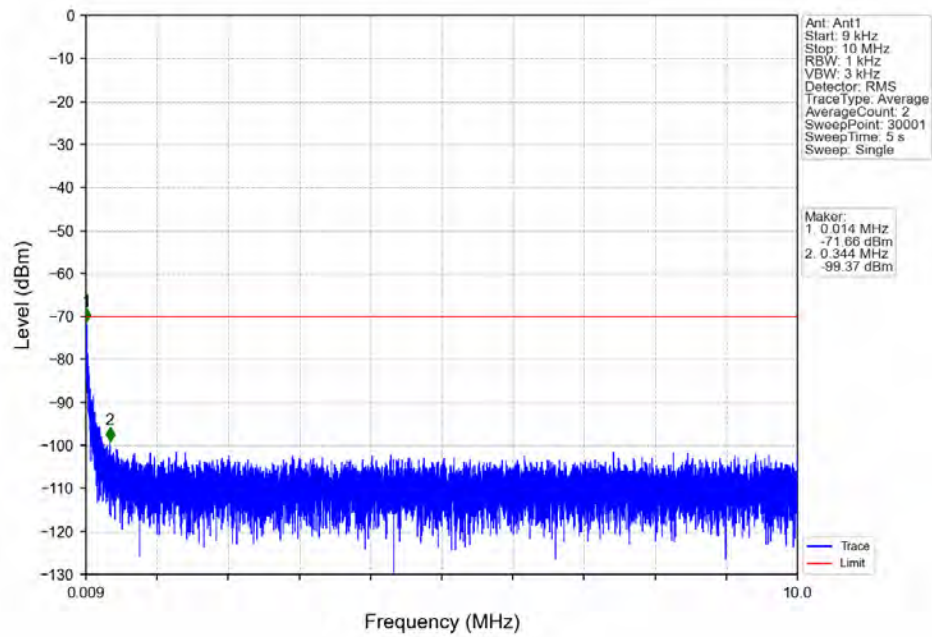
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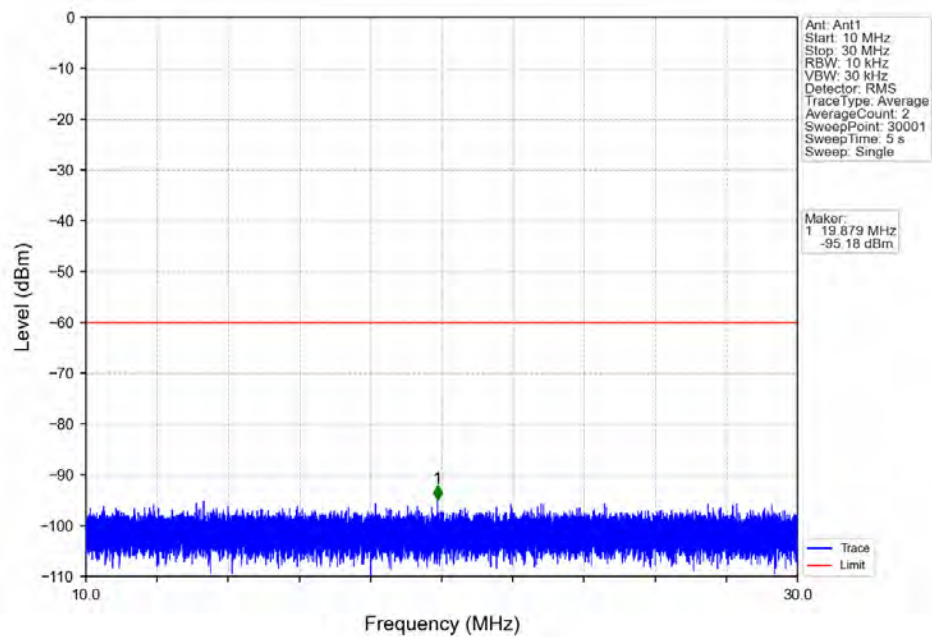
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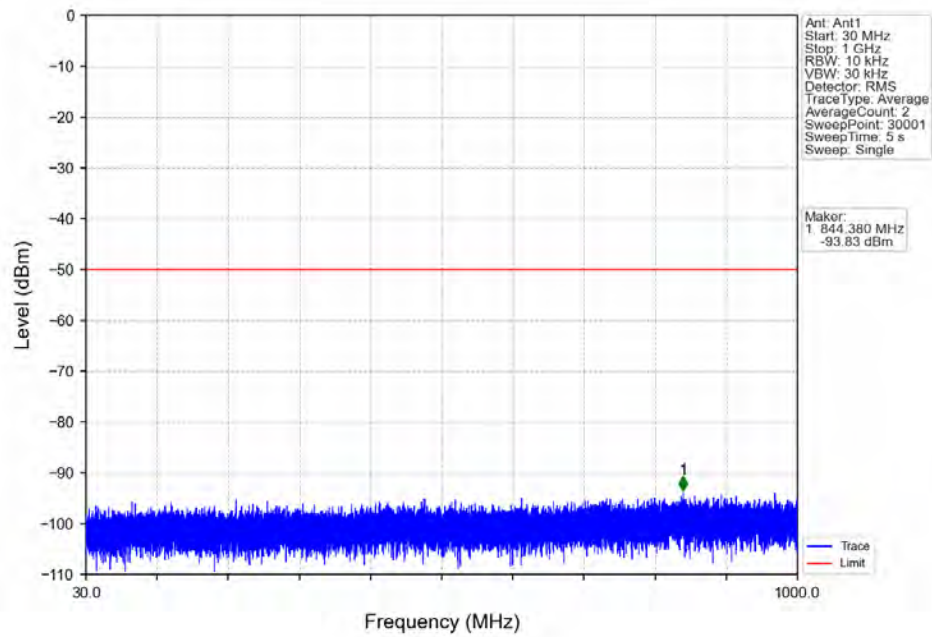
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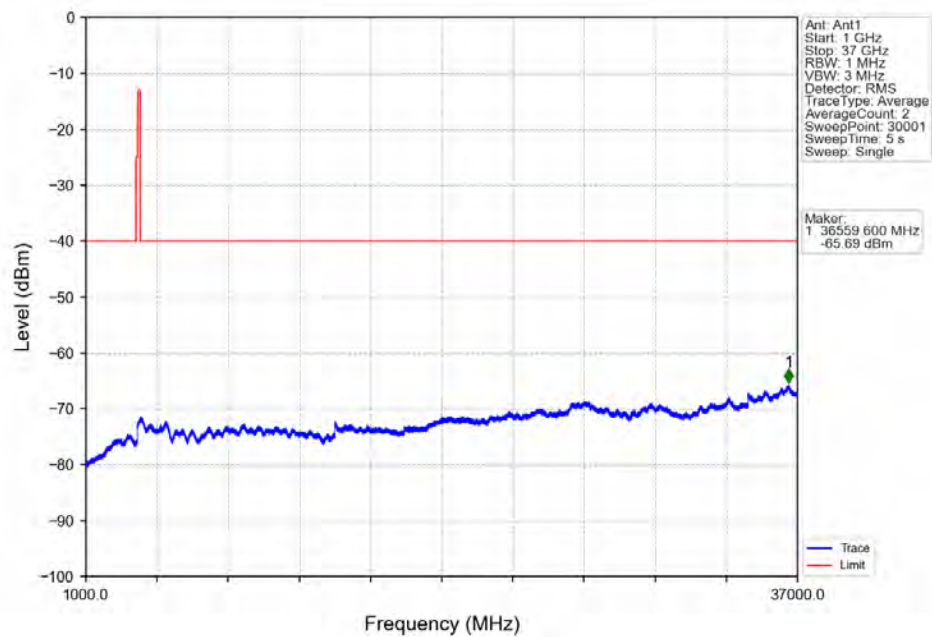
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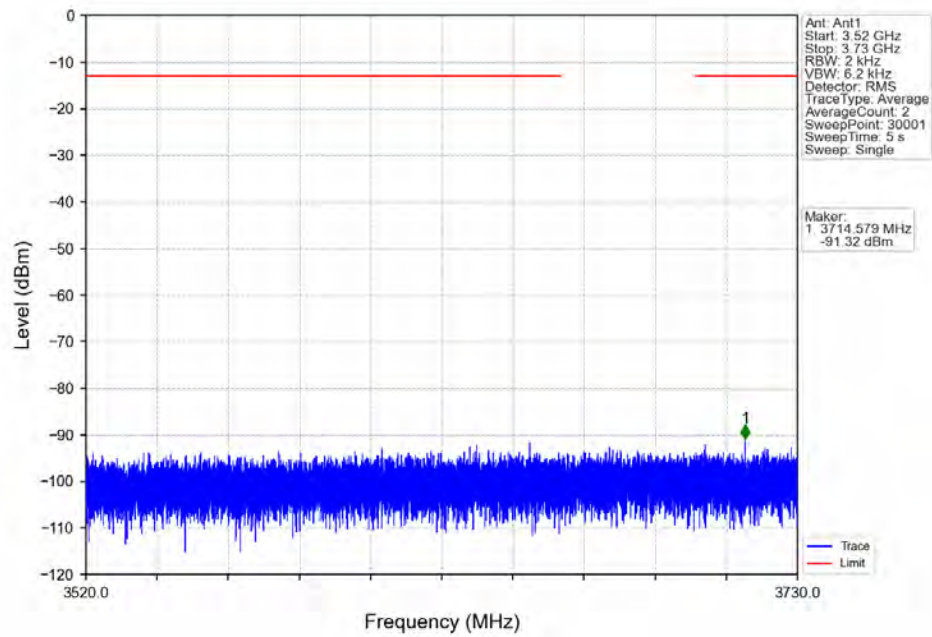
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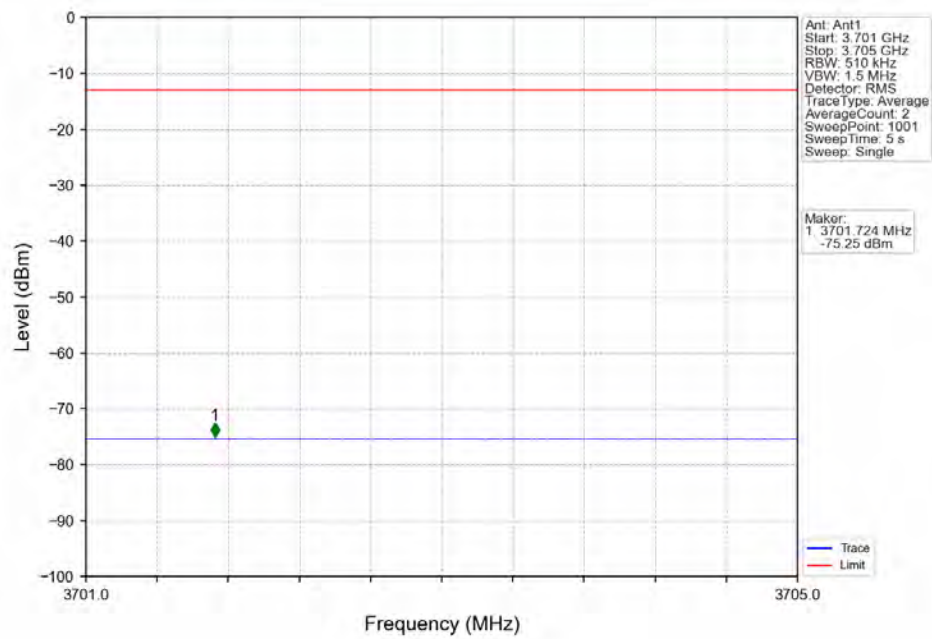
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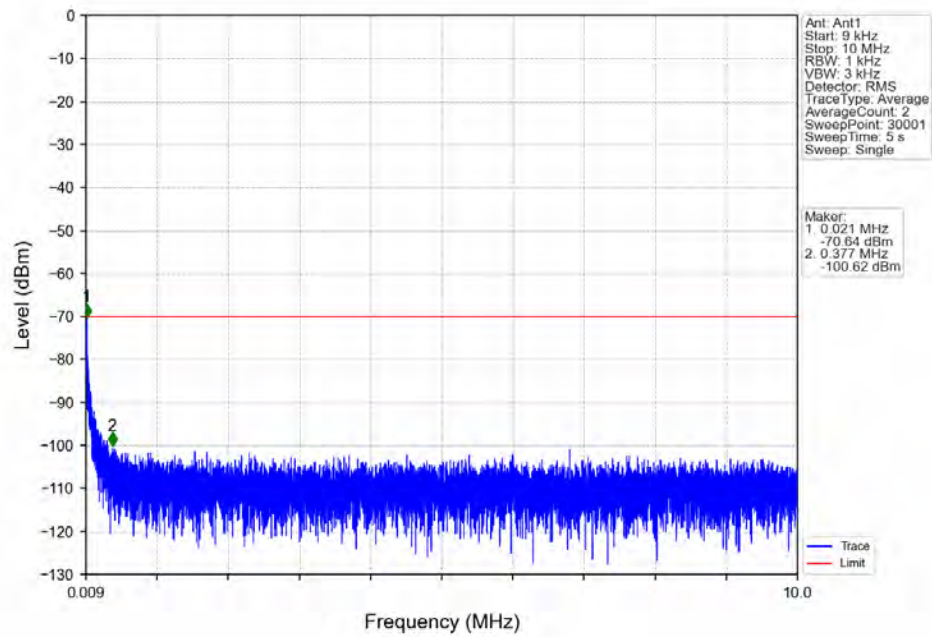
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