

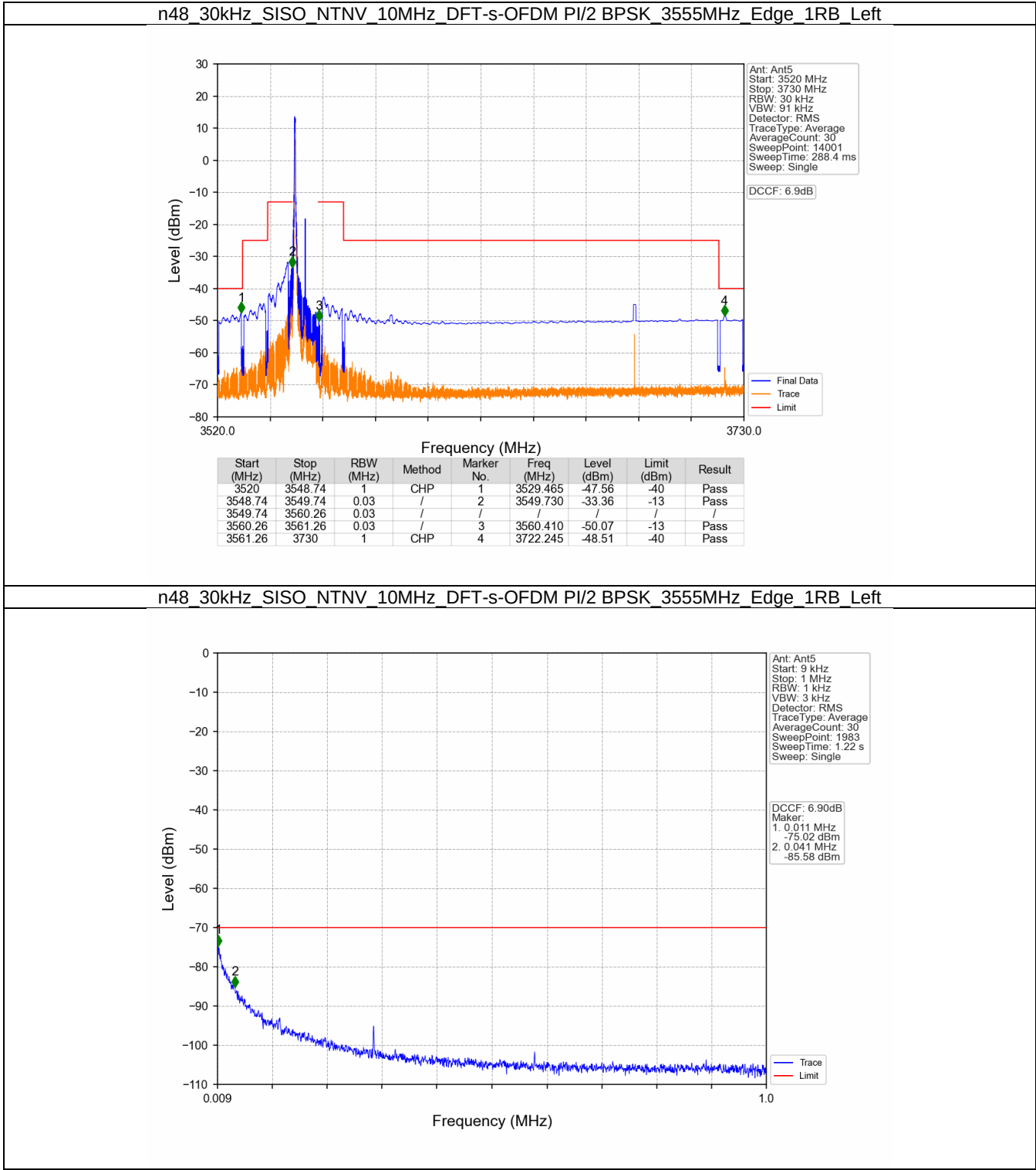
1. Spurious Emission

1.1 30k_SISO_10MHz_NTNV

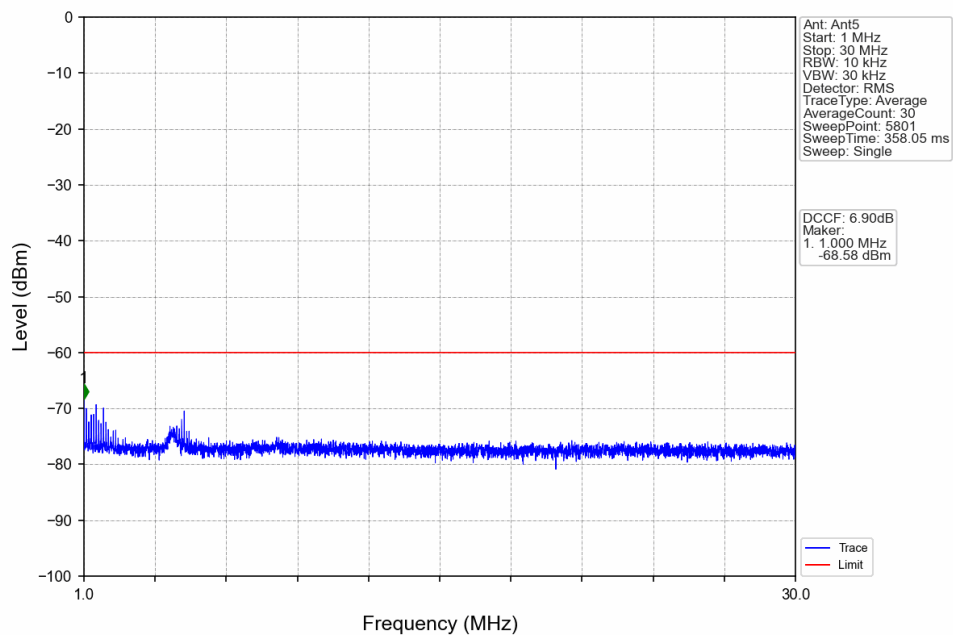
1.1.1 Test Result

5G NR n48 SCS=30kHz SISO 10MHz NTN								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant5	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	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	
	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	

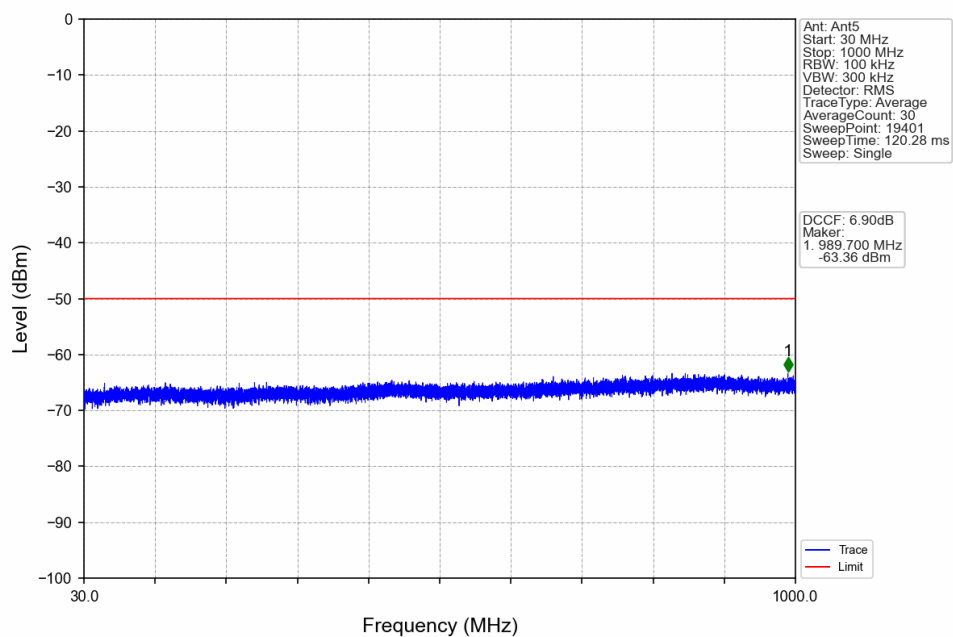
1.1.2 Test Graph



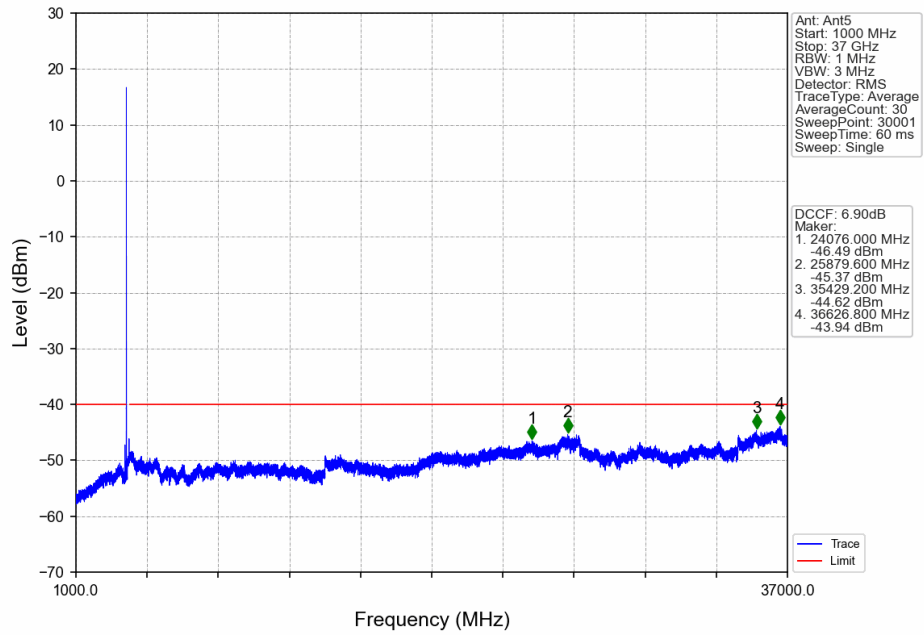
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Edge 1RB Left



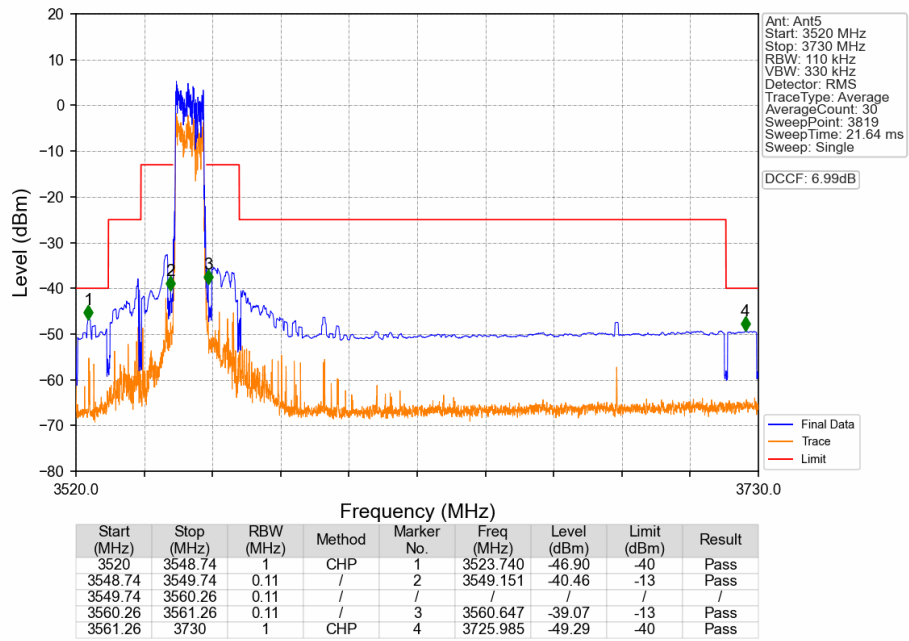
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Edge 1RB Left



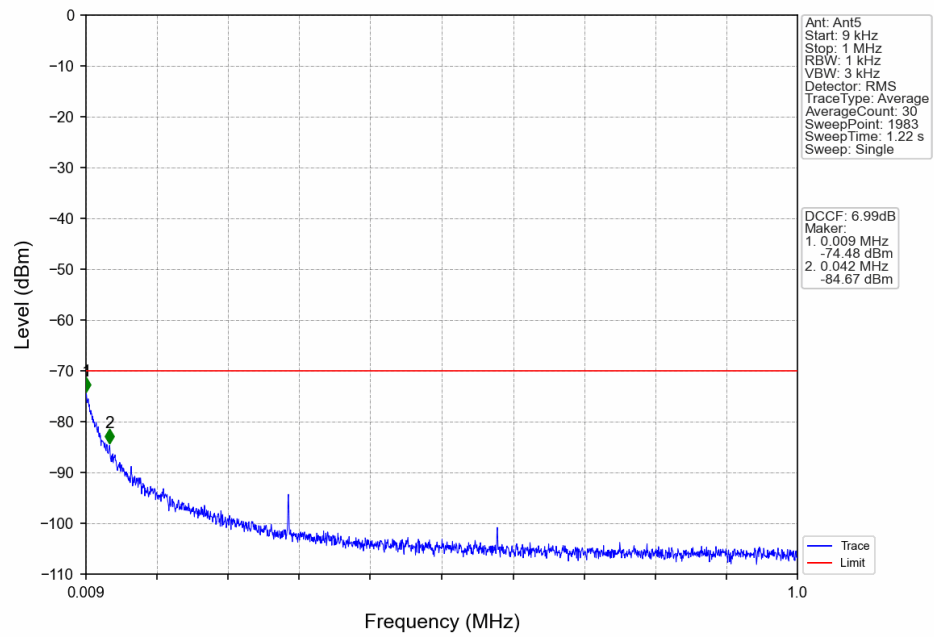
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Edge 1RB Left



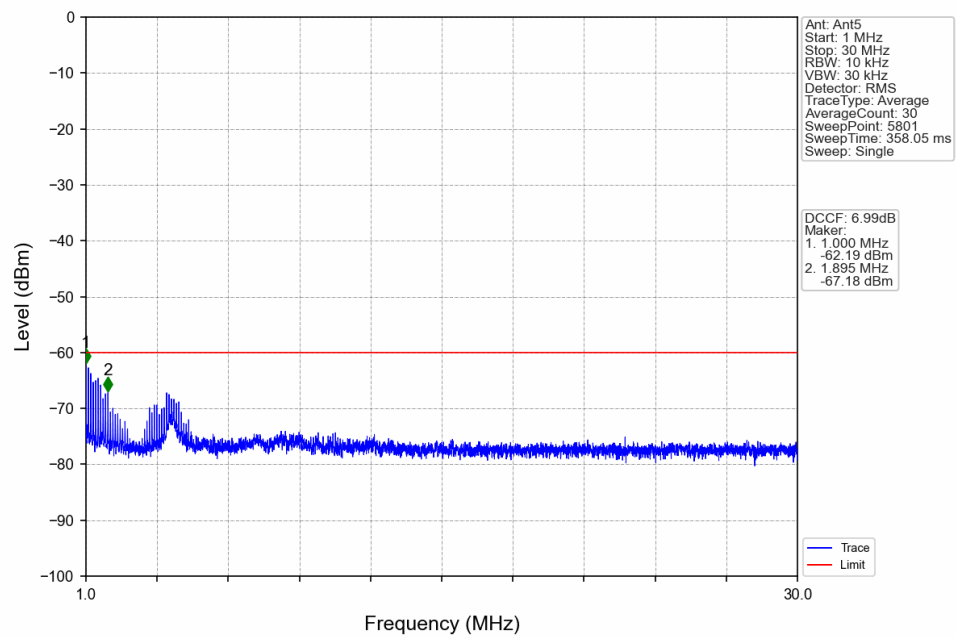
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Outer Full



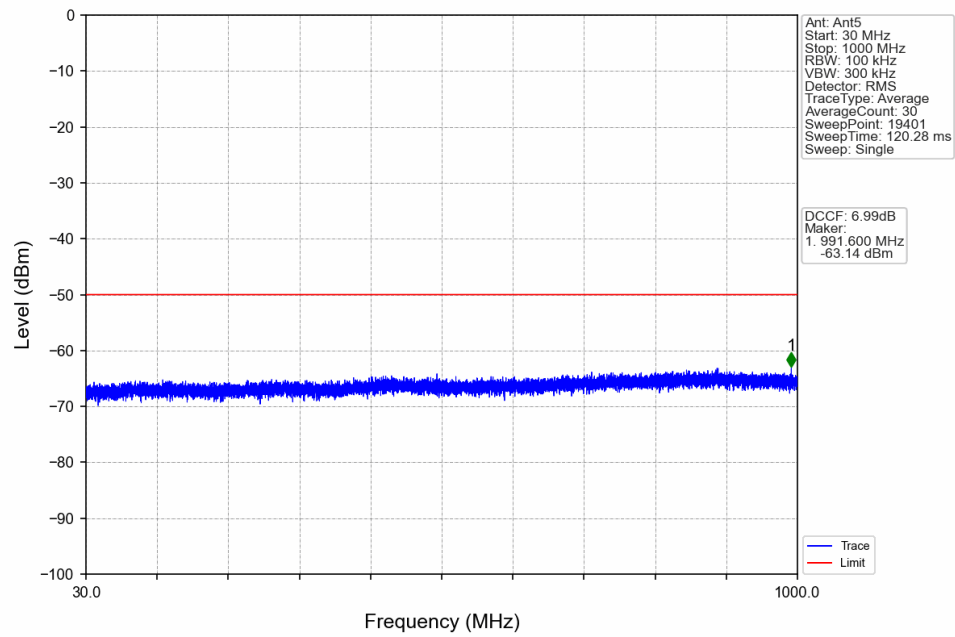
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Outer Full



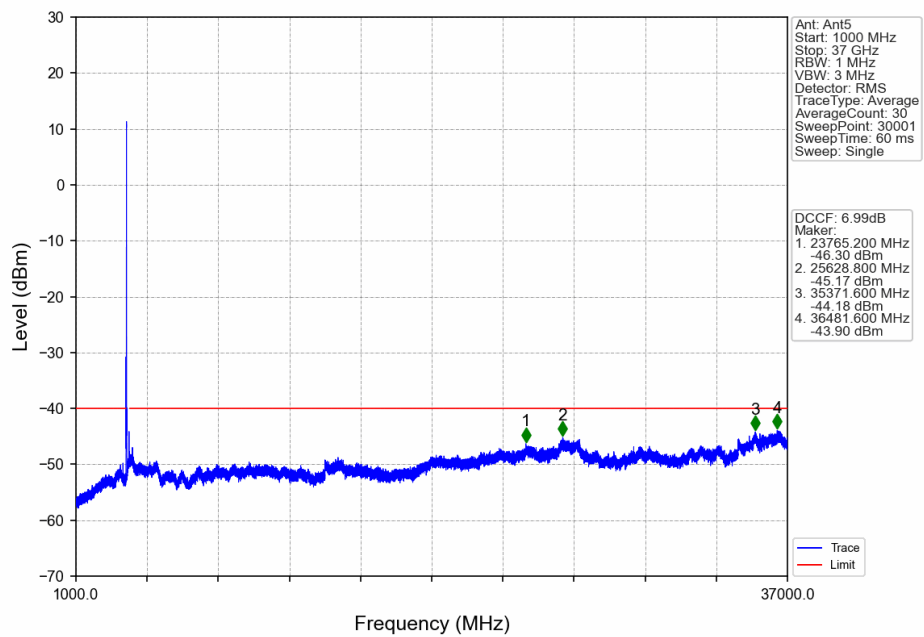
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Outer Full



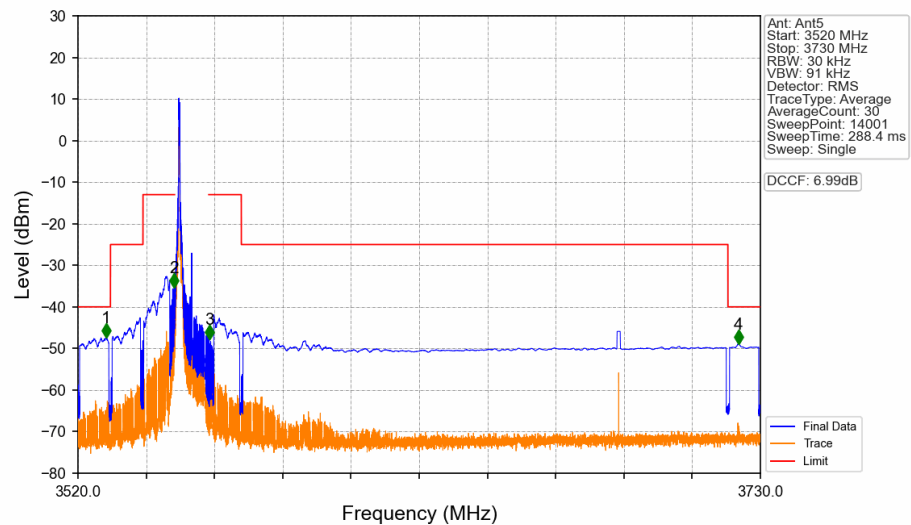
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n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Outer Full

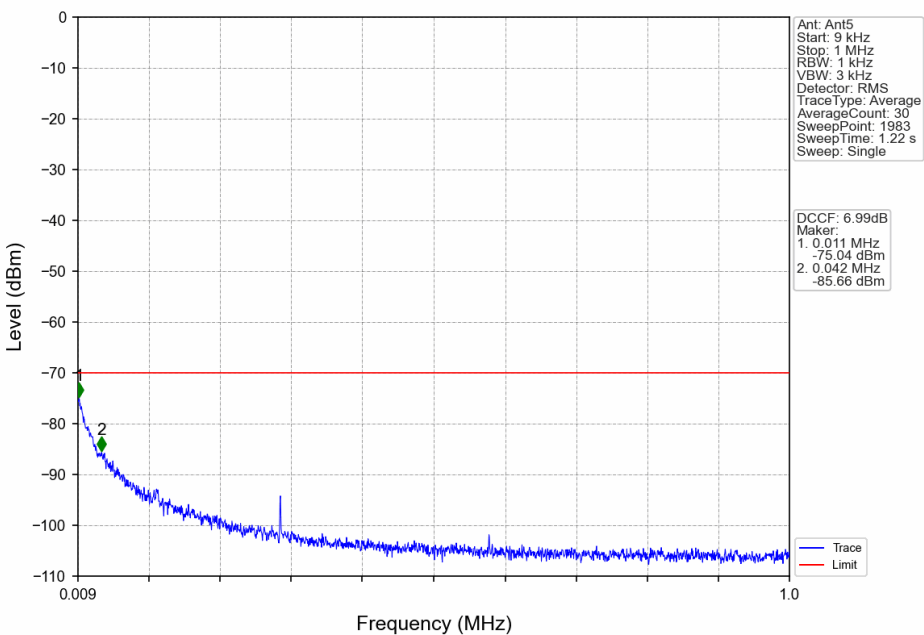


n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Inner 1RB Left

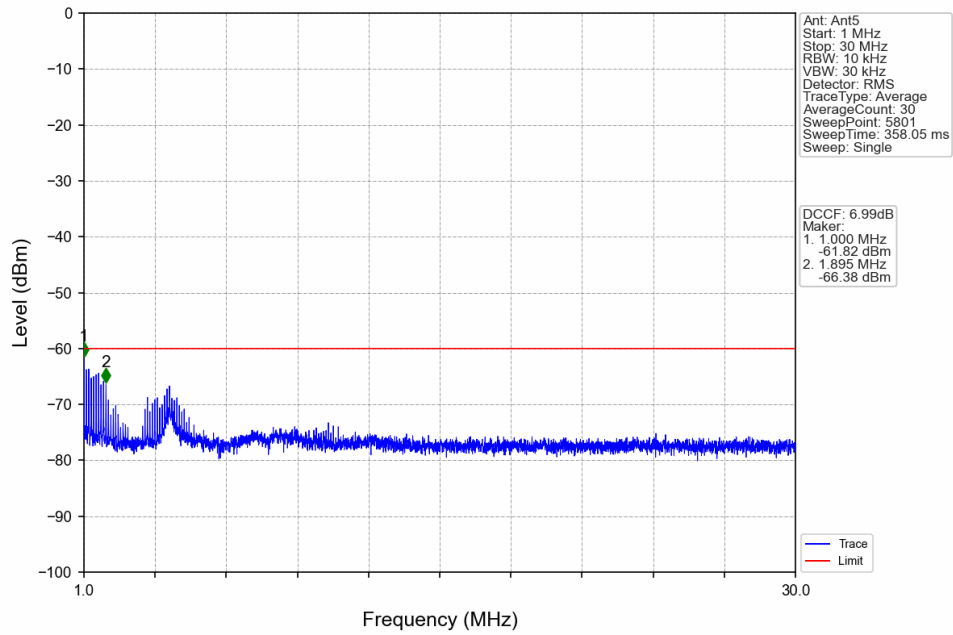


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3548.74	1	CHP	1	3528.565	-47.40	-40	Pass
3548.74	3549.74	0.03	/	2	3549.595	-35.43	-13	Pass
3549.74	3560.26	0.03	/	/	/	/	/	/
3560.26	3561.26	0.03	/	3	3560.365	-47.87	-13	Pass
3561.26	3730	1	CHP	4	3723.175	-48.95	-40	Pass

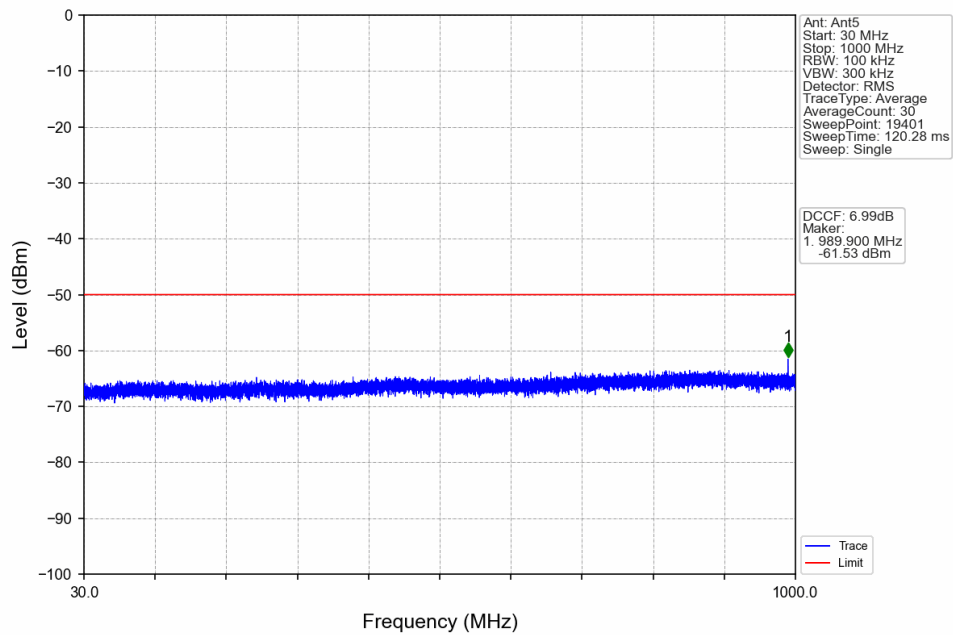
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Inner 1RB Left



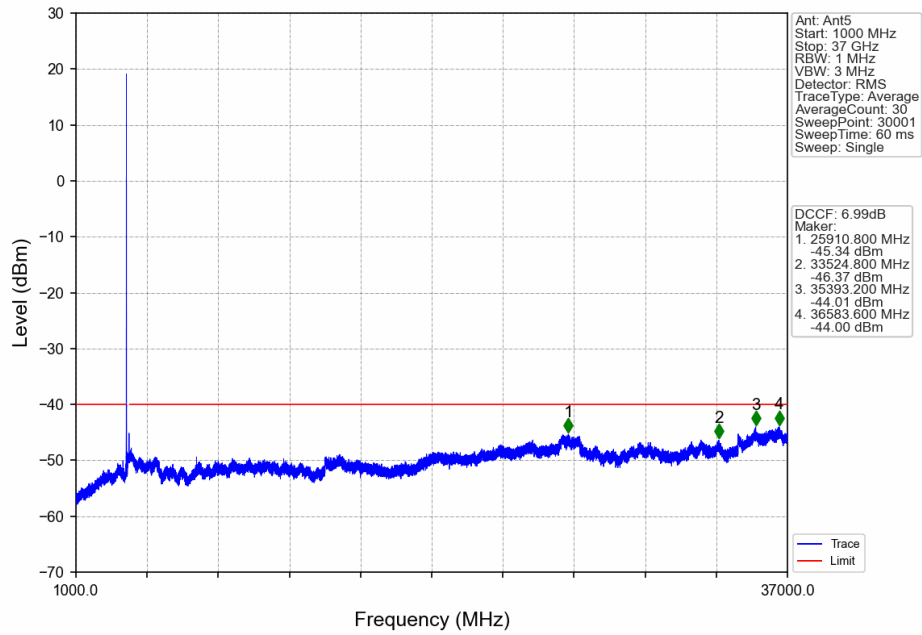
n48 30kHz SISO NTNv 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Inner 1RB Left



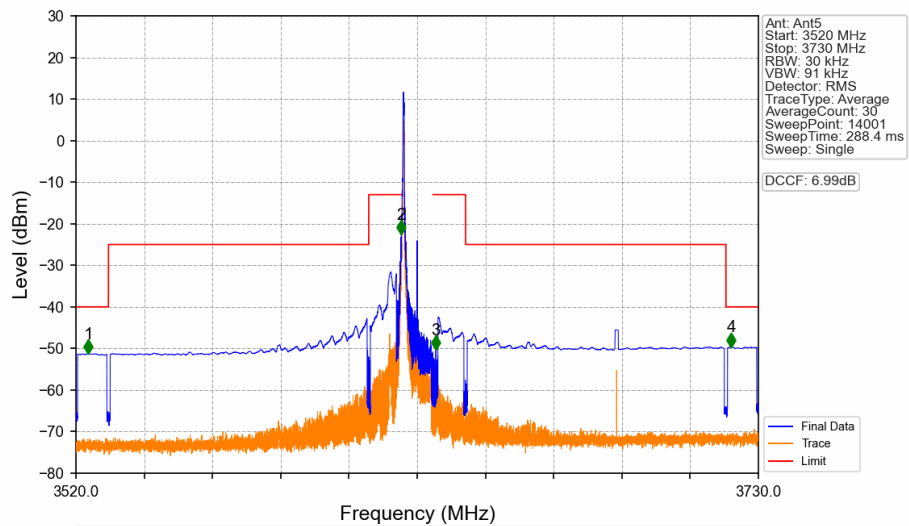
n48 30kHz SISO NTNv 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Inner 1RB Left



n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3555MHz Inner 1RB Left

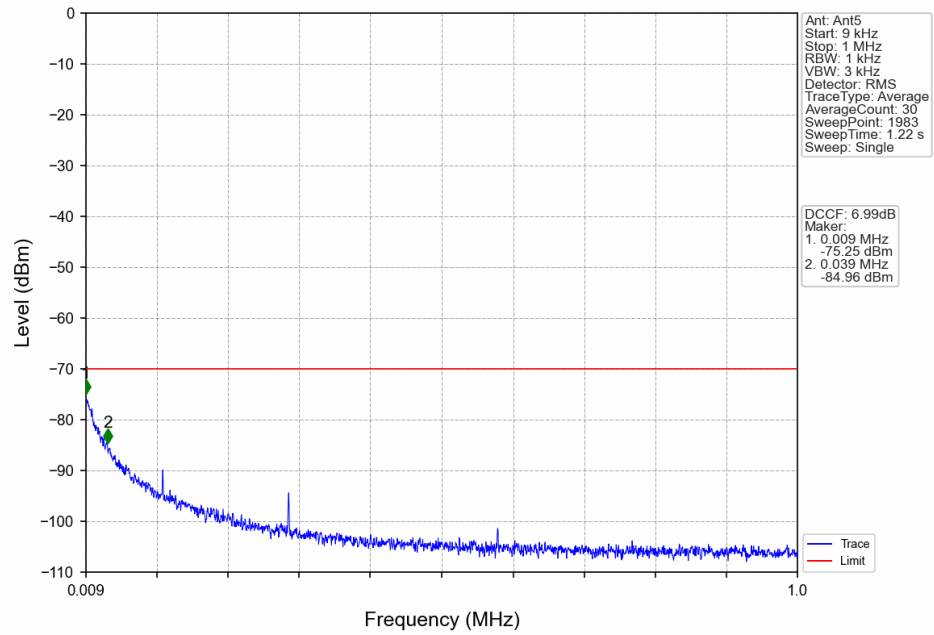


n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3624.99MHz Edge 1RB Left

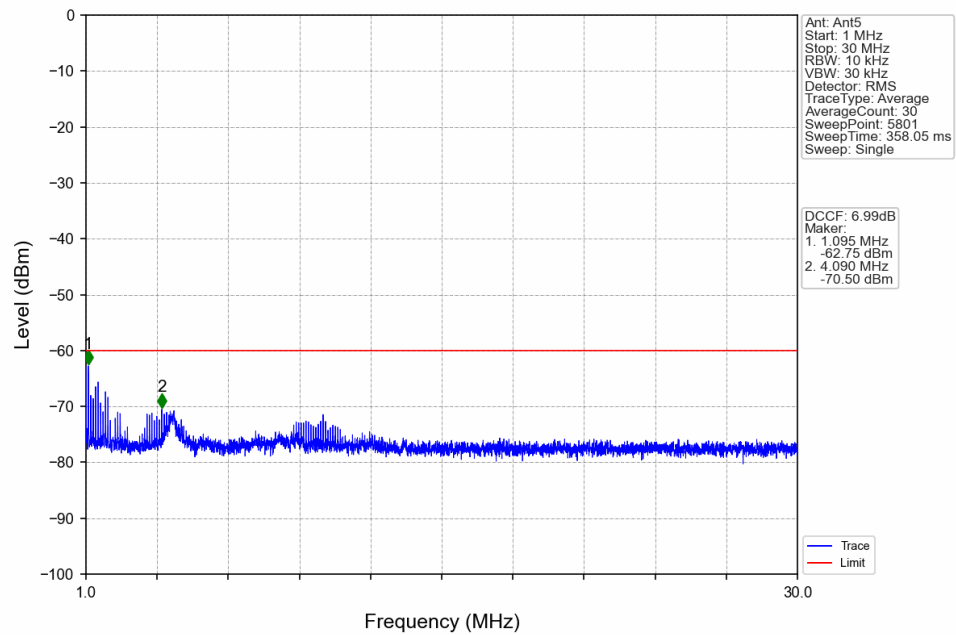


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3619.098	1	CHP	1	3523.810	-51.26	-40	Pass
3619.098	3620.098	0.03	/	2	3620.095	-22.61	-13	Pass
3620.098	3629.882	0.03	/	/	/	/	/	/
3629.882	3630.882	0.03	/	3	3630.745	-50.38	-13	Pass
3630.882	3730	1	CHP	4	3721.675	-49.65	-40	Pass

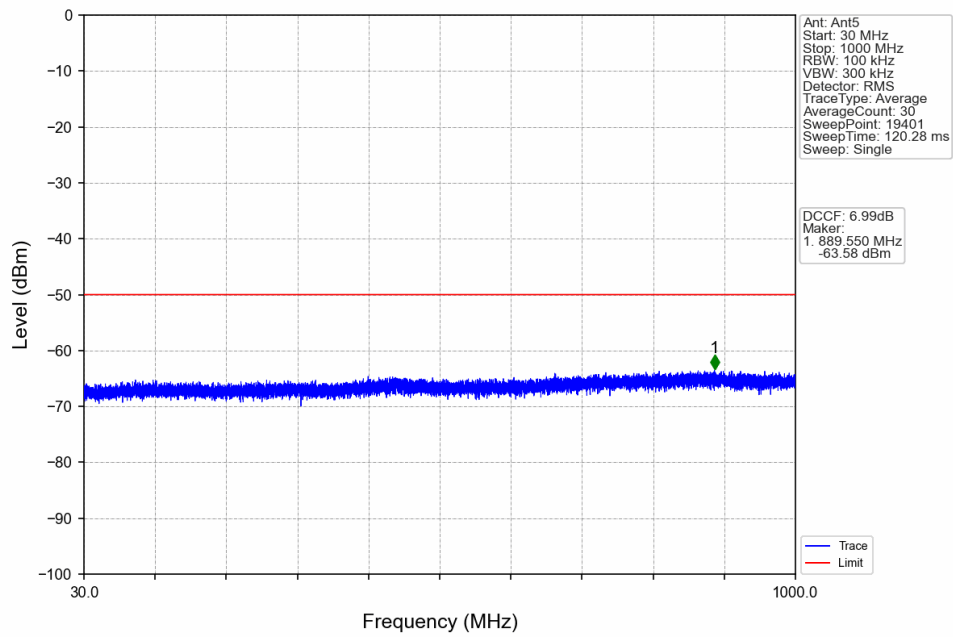
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3624.99MHz Edge 1RB Left



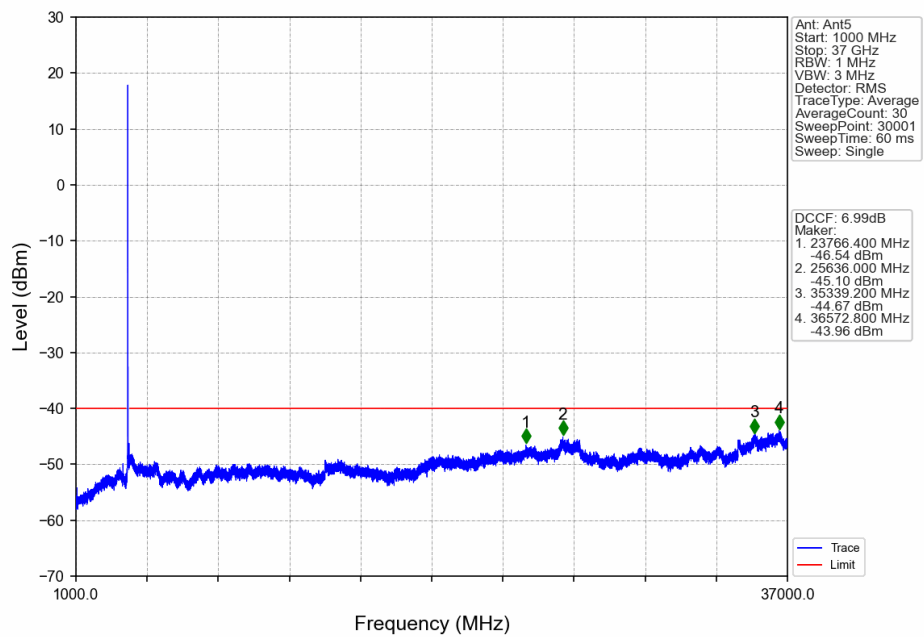
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3624.99MHz Edge 1RB Left



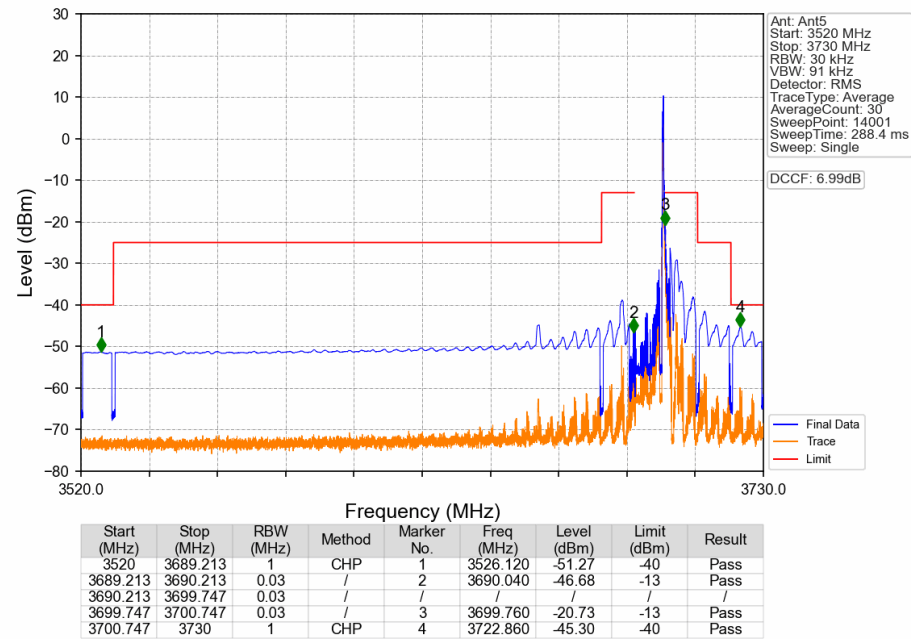
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3624.99MHz Edge 1RB Left



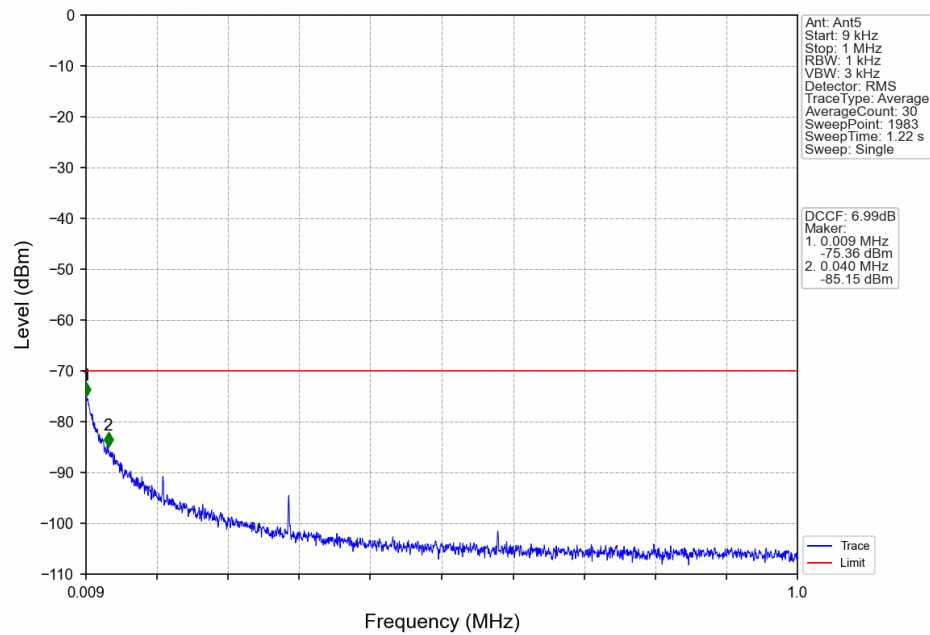
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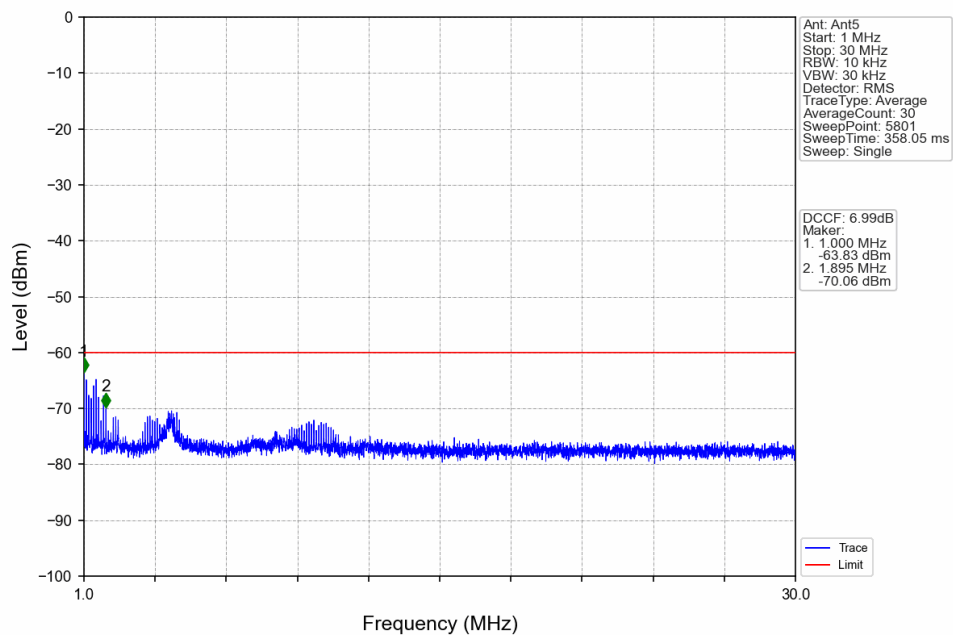
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Edge 1RB Right



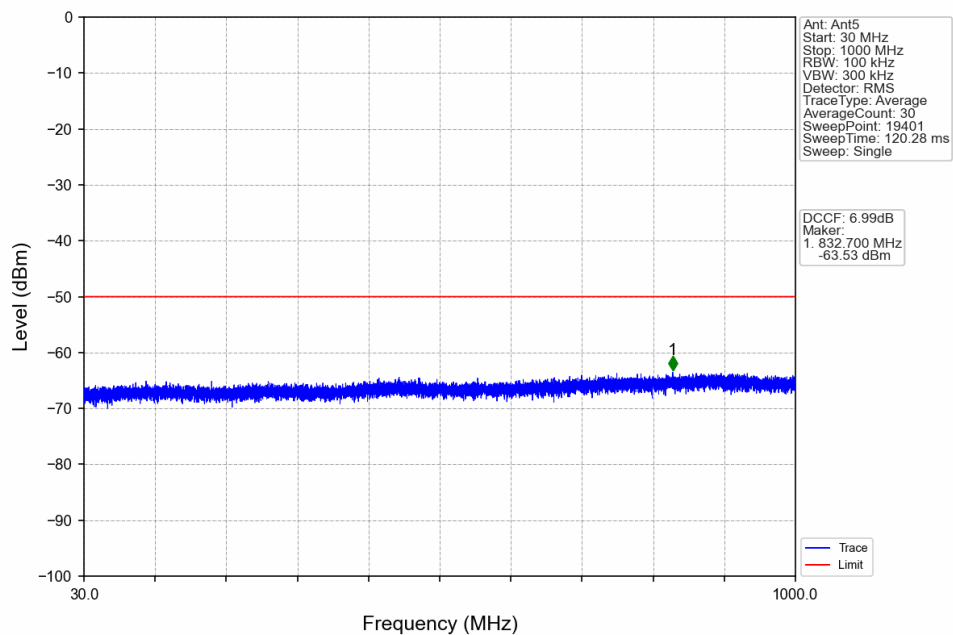
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Edge 1RB Right



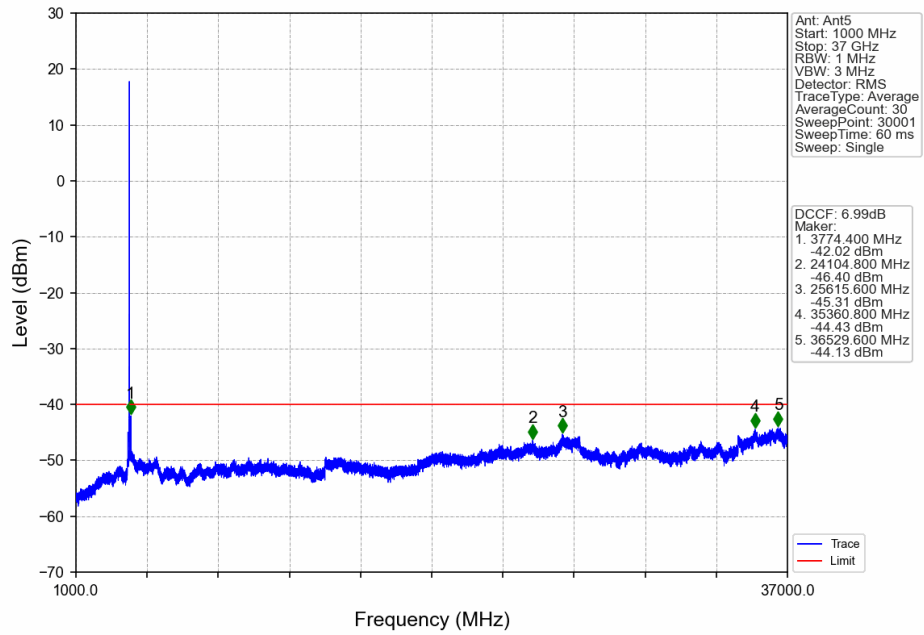
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Edge 1RB Right



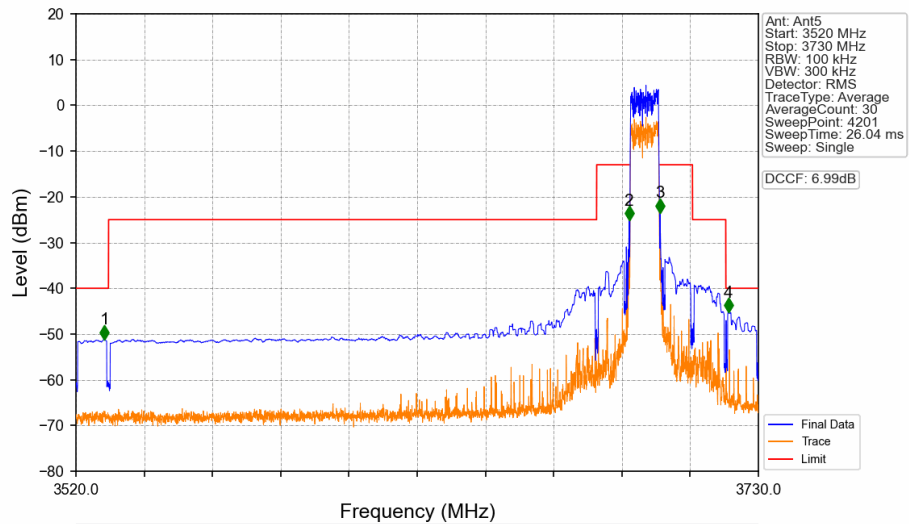
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Edge 1RB Right



n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Edge 1RB Right

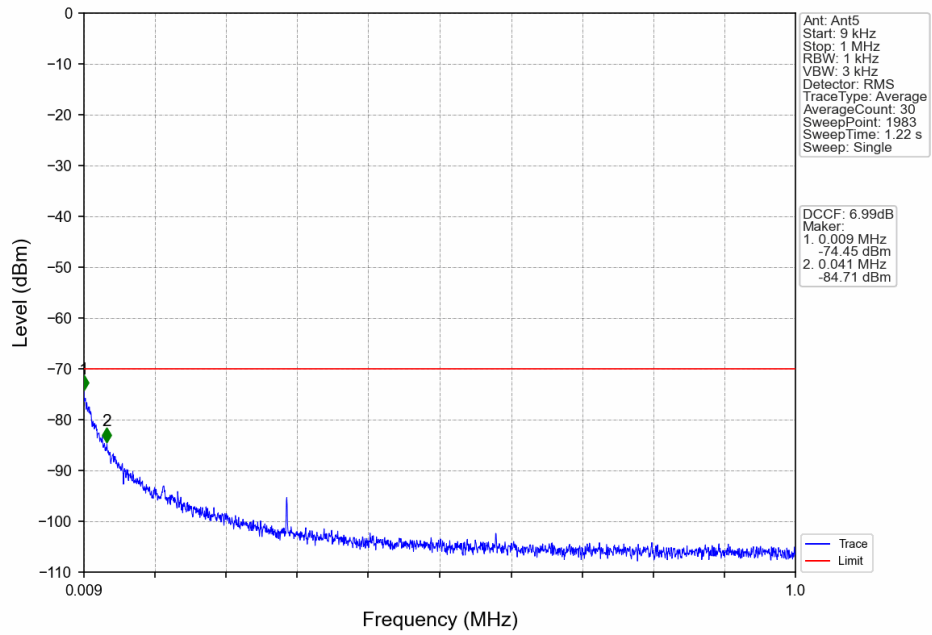


n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Outer Full

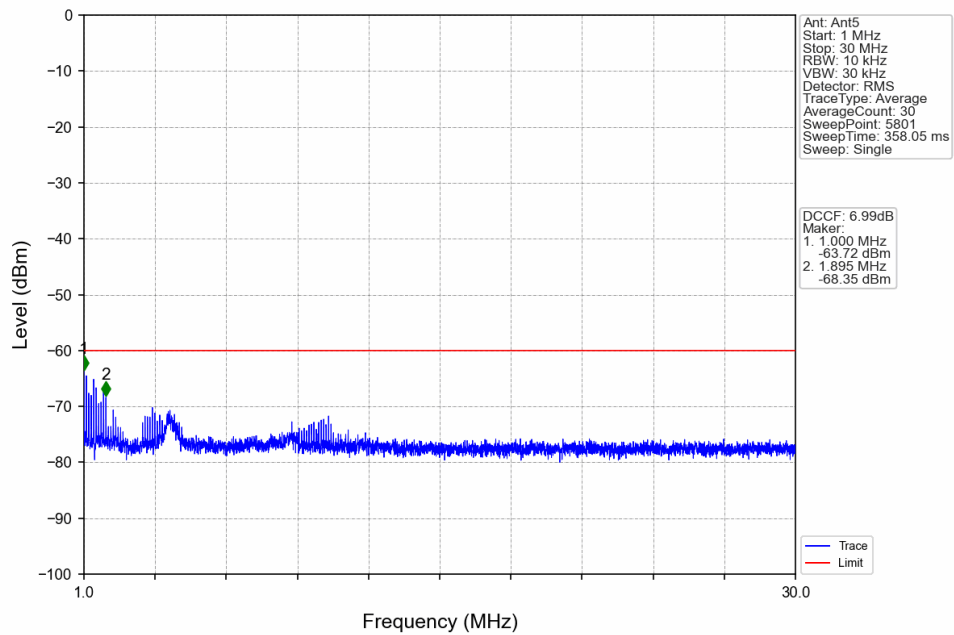


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3689.213	1	CHP	1	3528.800	-51.19	-40	Pass
3689.213	3690.213	0.1	/	2	3690.200	-25.20	-13	Pass
3690.213	3699.747	0.1	/	/	/	/	/	/
3699.747	3700.747	0.1	/	3	3699.750	-23.48	-13	Pass
3700.747	3730	1	CHP	4	3720.700	-45.27	-40	Pass

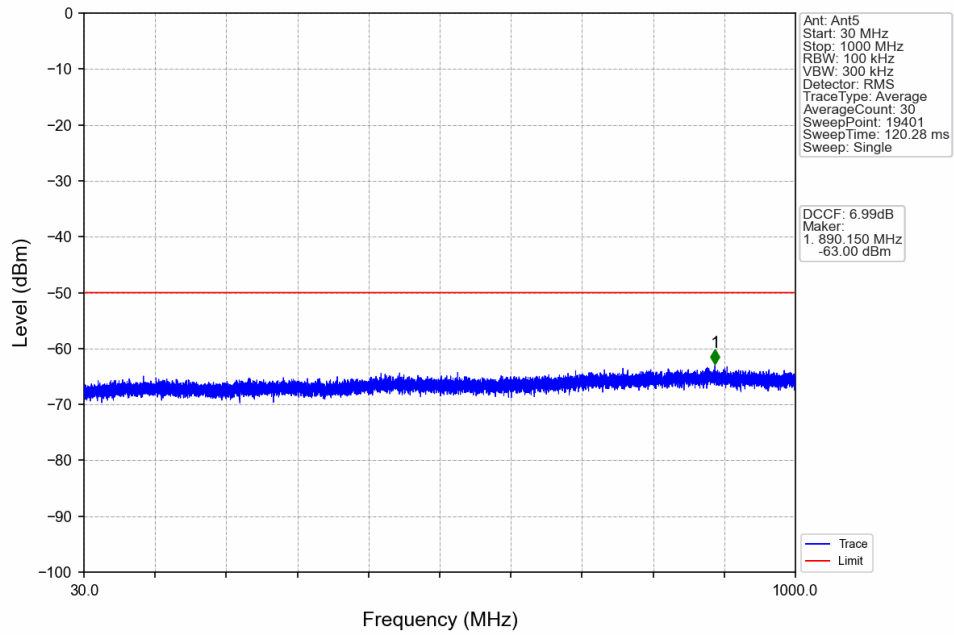
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Outer Full



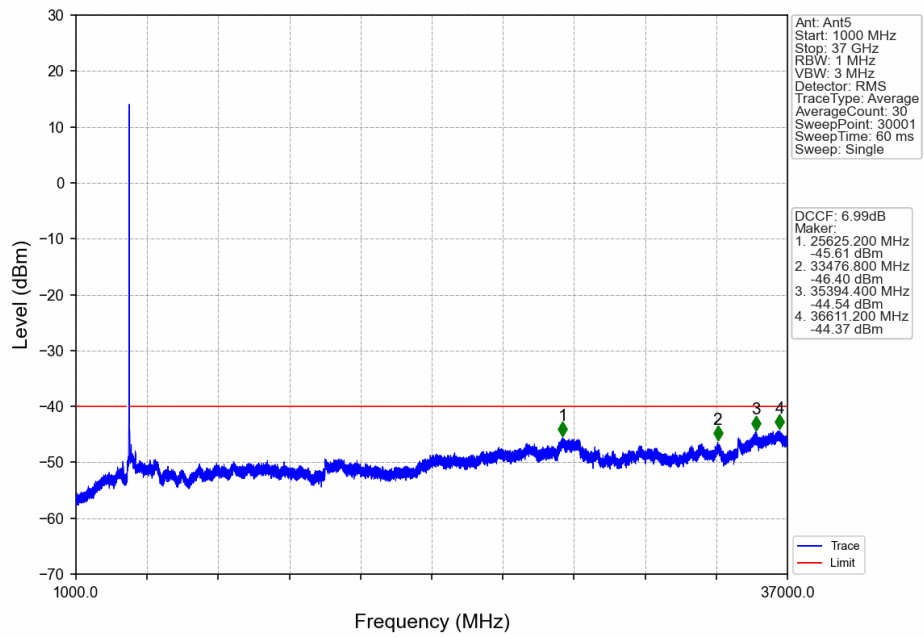
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Outer Full



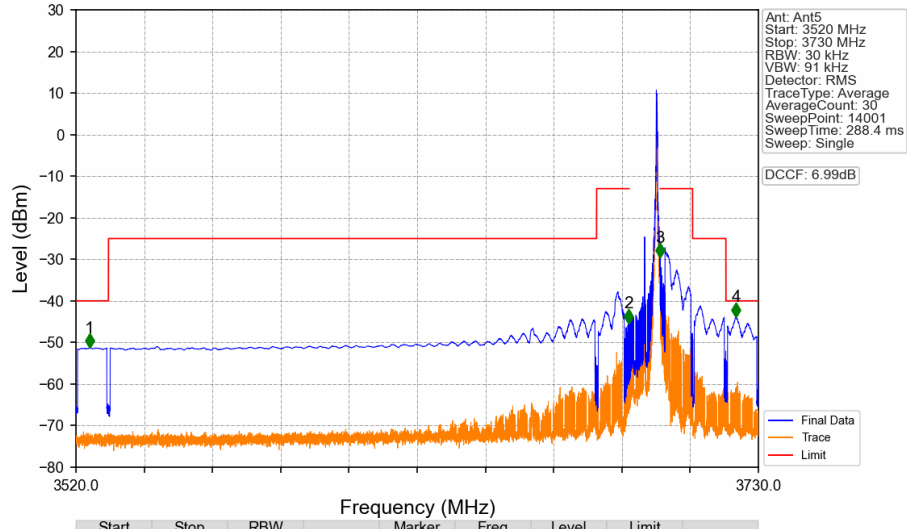
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Outer Full



n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Outer Full

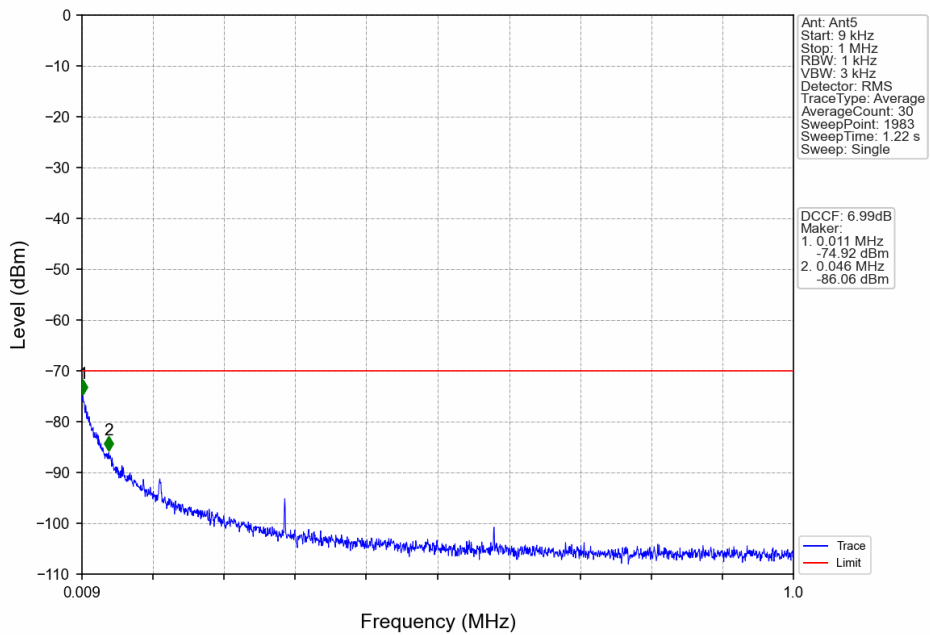


n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Inner 1RB Right

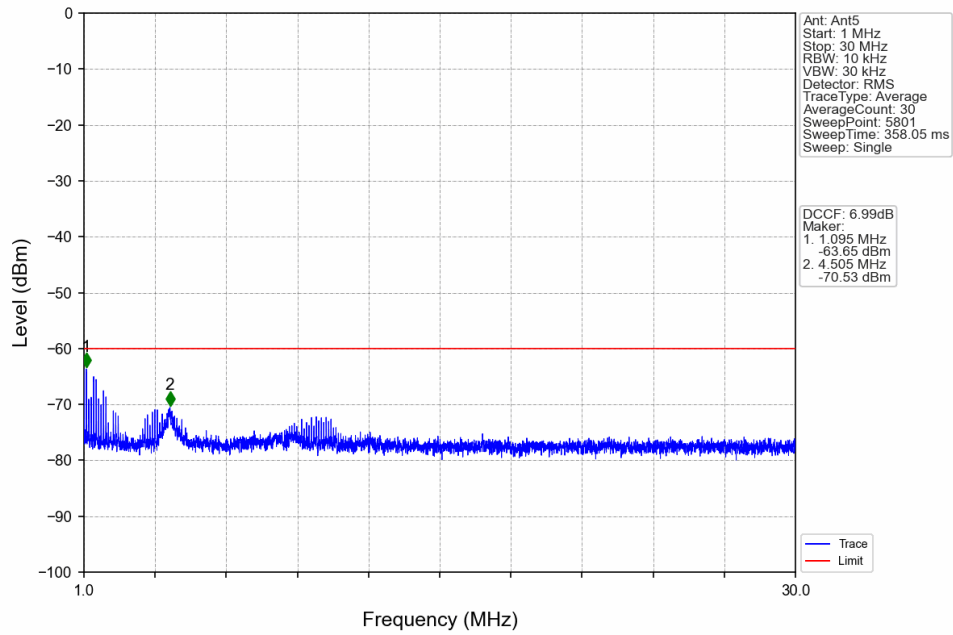


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3689.213	1	CHP	1	3524.125	-51.30	-40	Pass
3689.213	3690.213	0.03	/	2	3690.010	-45.38	-13	Pass
3690.213	3699.747	0.03	/	/	/	/	/	/
3699.747	3700.747	0.03	/	3	3699.790	-29.55	-13	Pass
3700.747	3730	1	CHP	4	3723.100	-43.85	-40	Pass

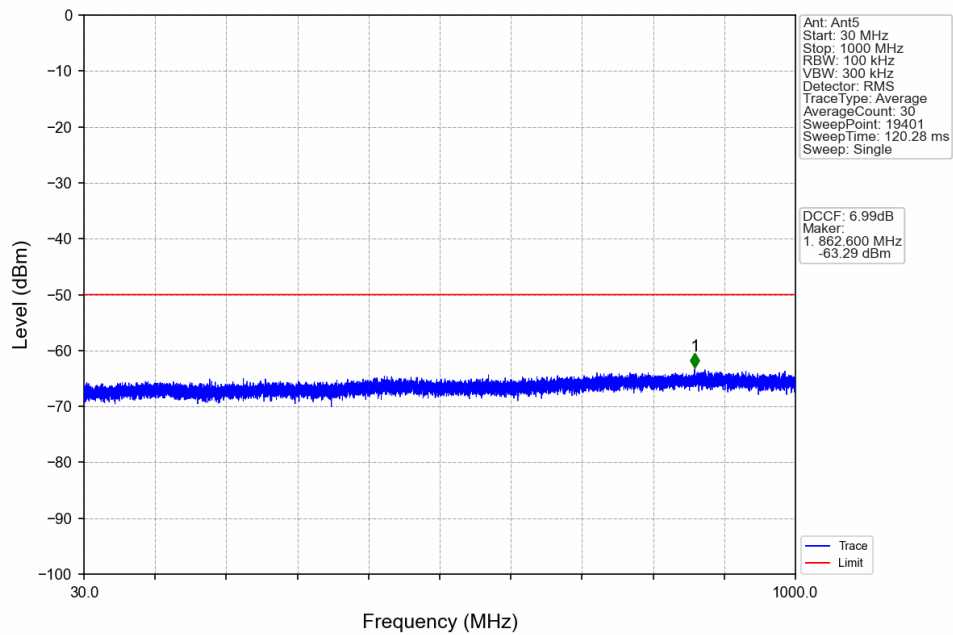
n48 30kHz SISO NTN 10MHz DFT-s-OFDM PI/2 BPSK 3694.98MHz Inner 1RB Right



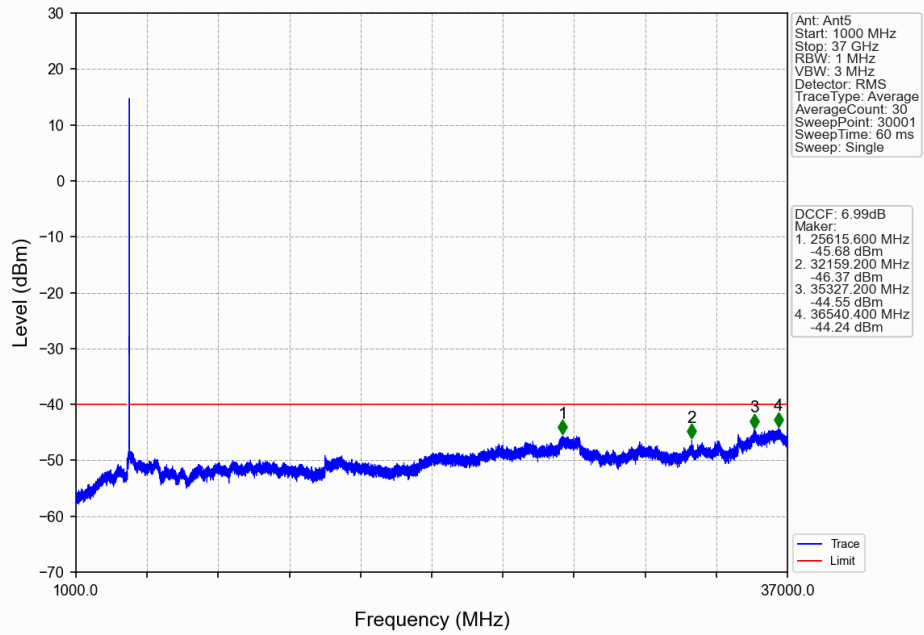
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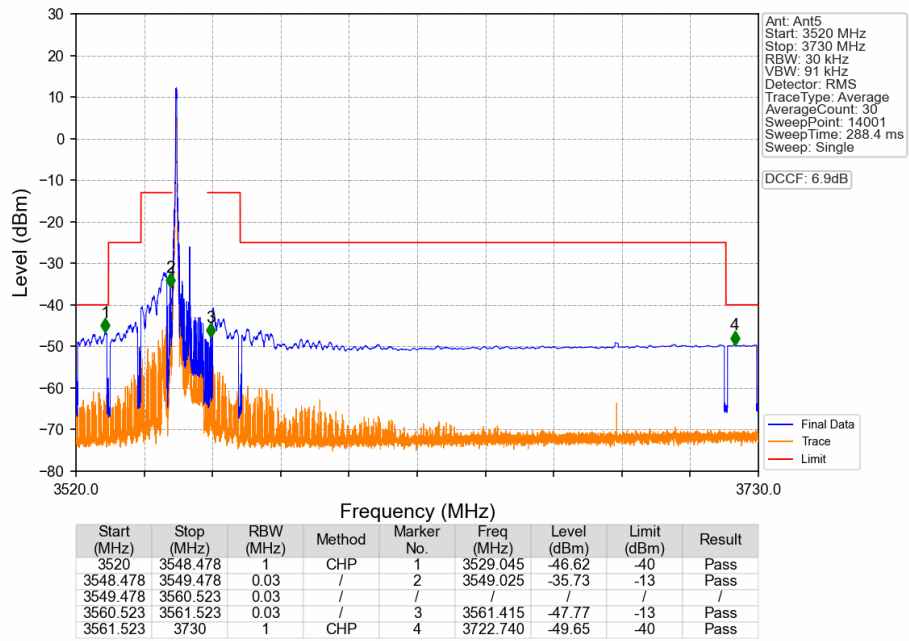
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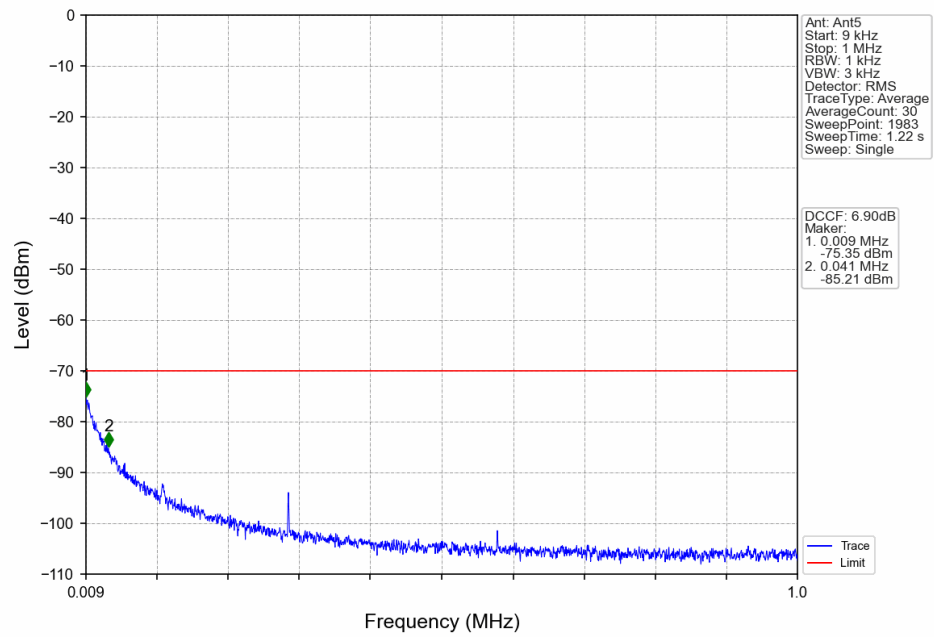
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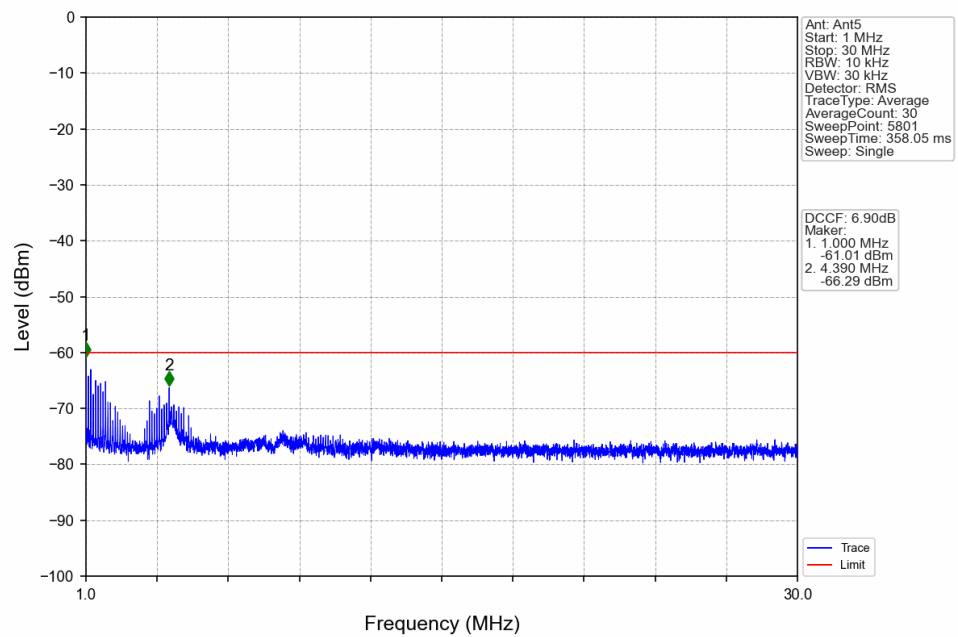
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Edge 1RB Left



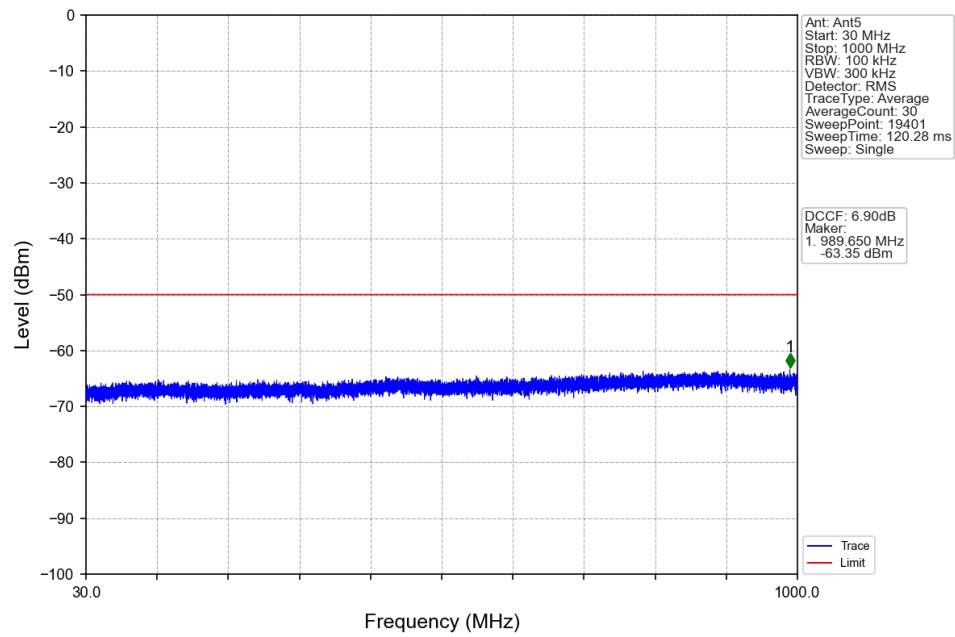
n48 30kHz SISO NTV 10MHz DFT-s-OFDM QPSK 3555MHz Edge 1RB Left



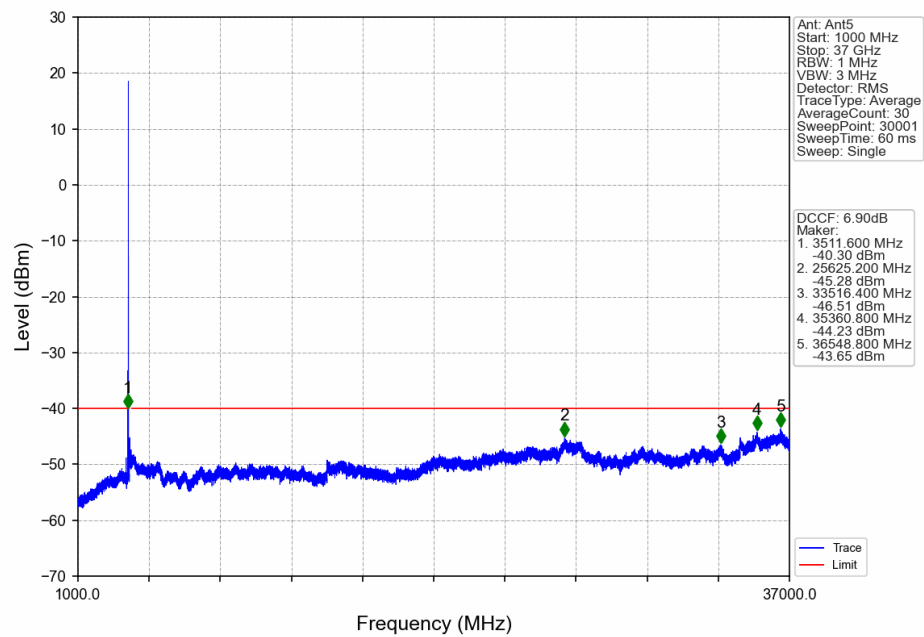
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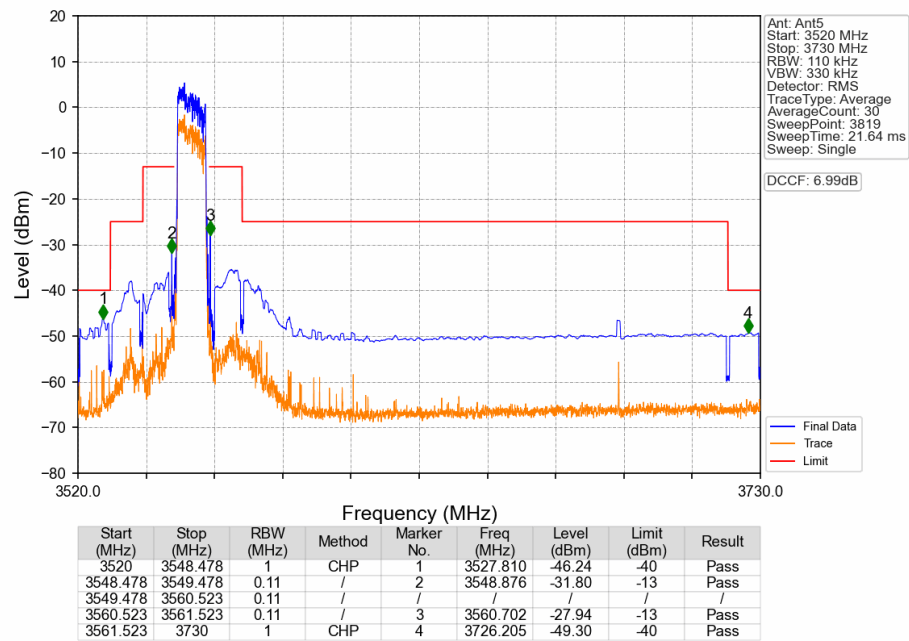
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Edge 1RB Left



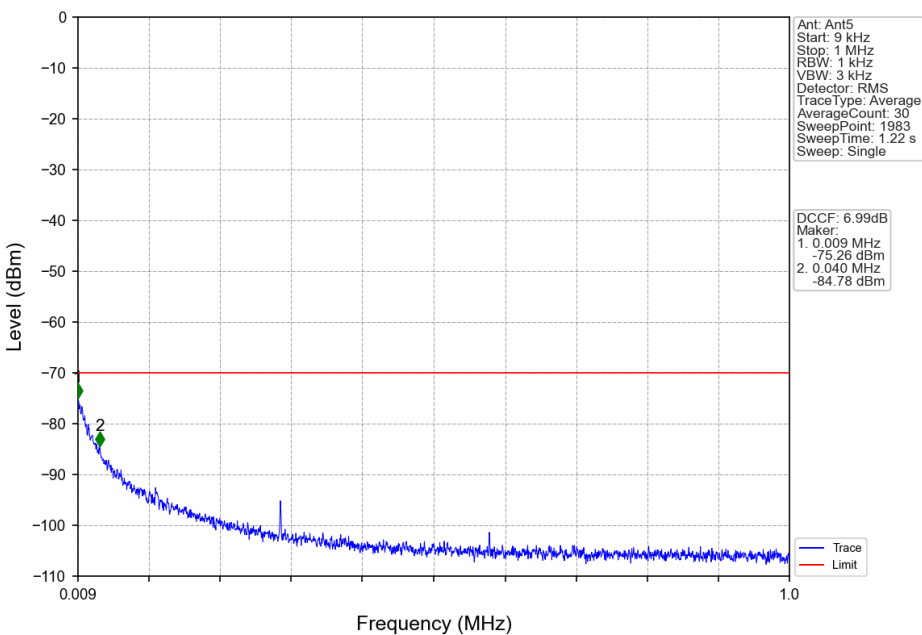
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Edge 1RB Left



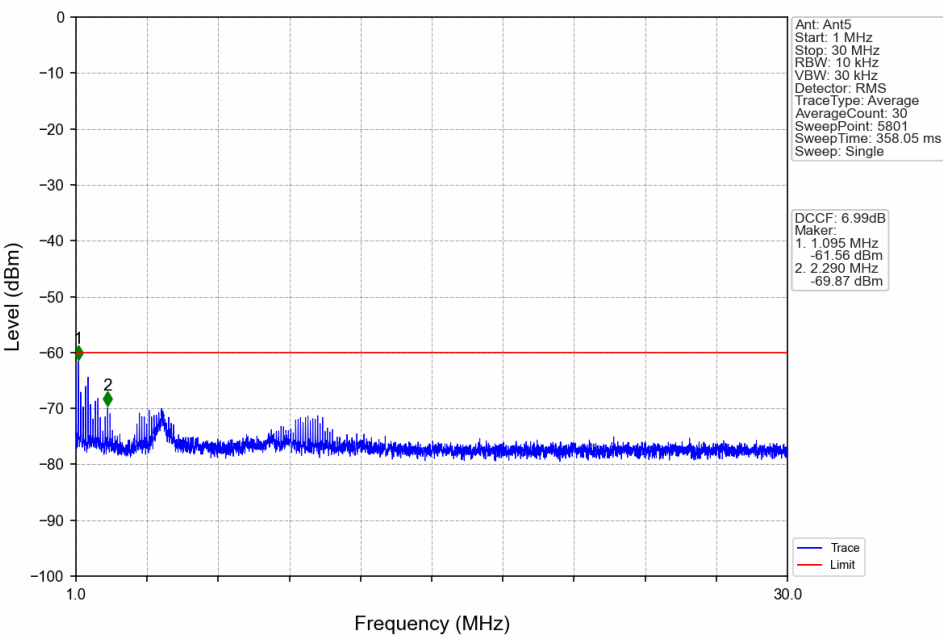
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Outer Full



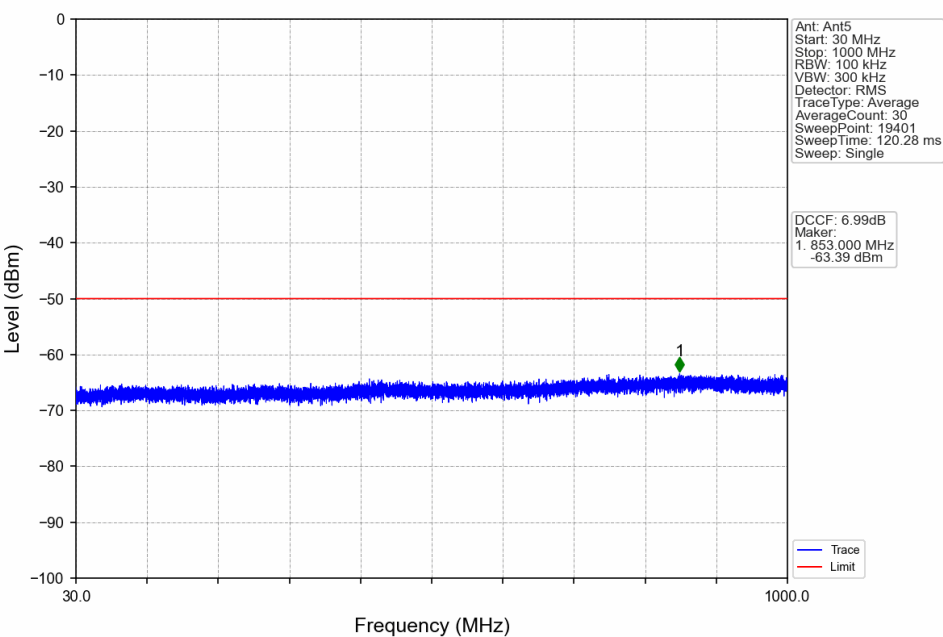
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Outer Full



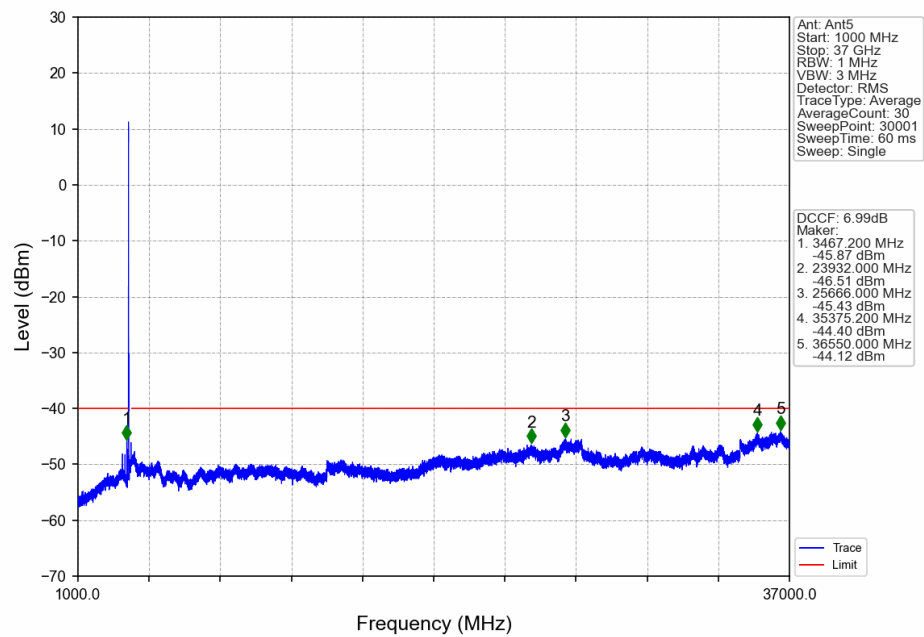
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Outer Full



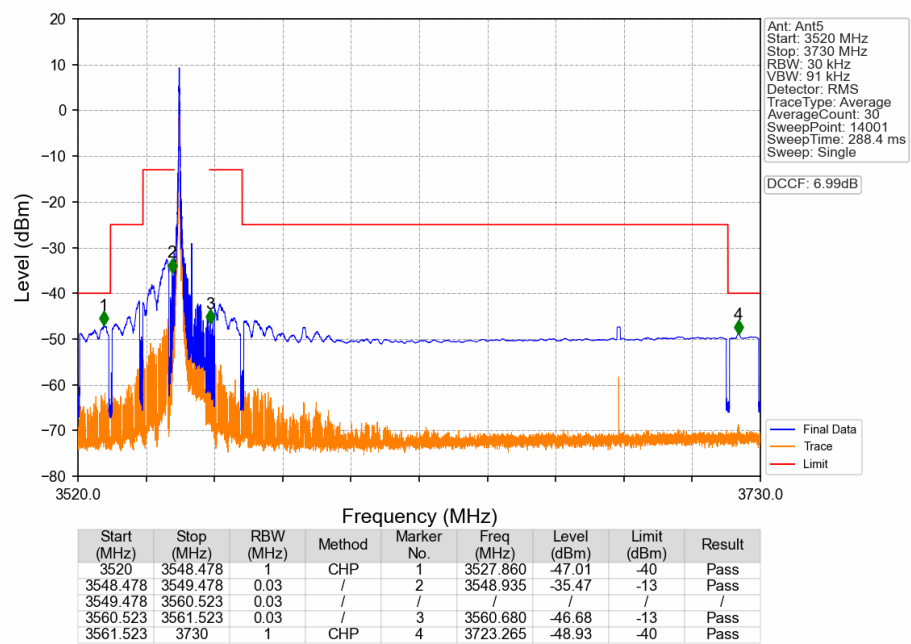
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Outer Full



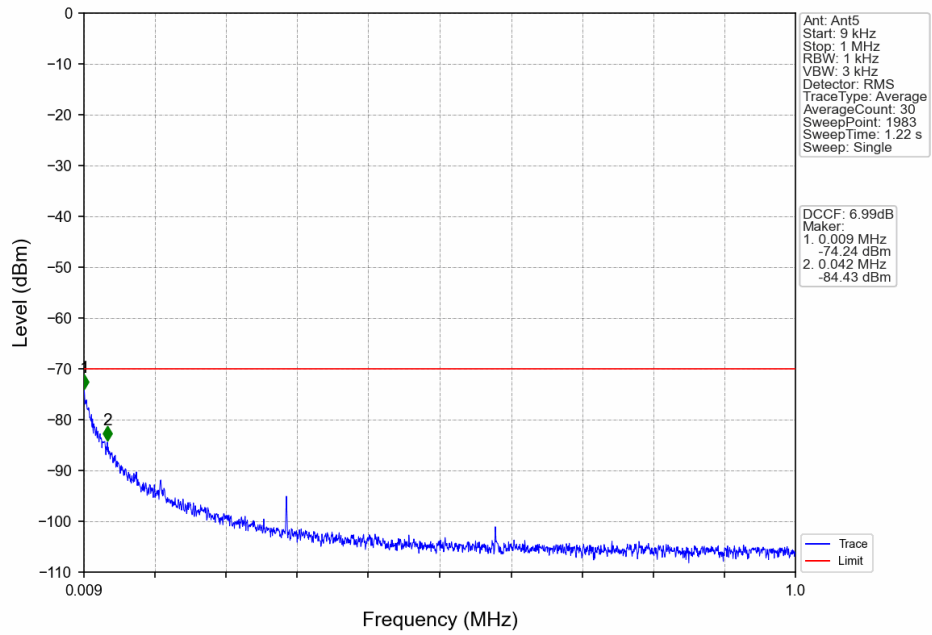
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Outer Full



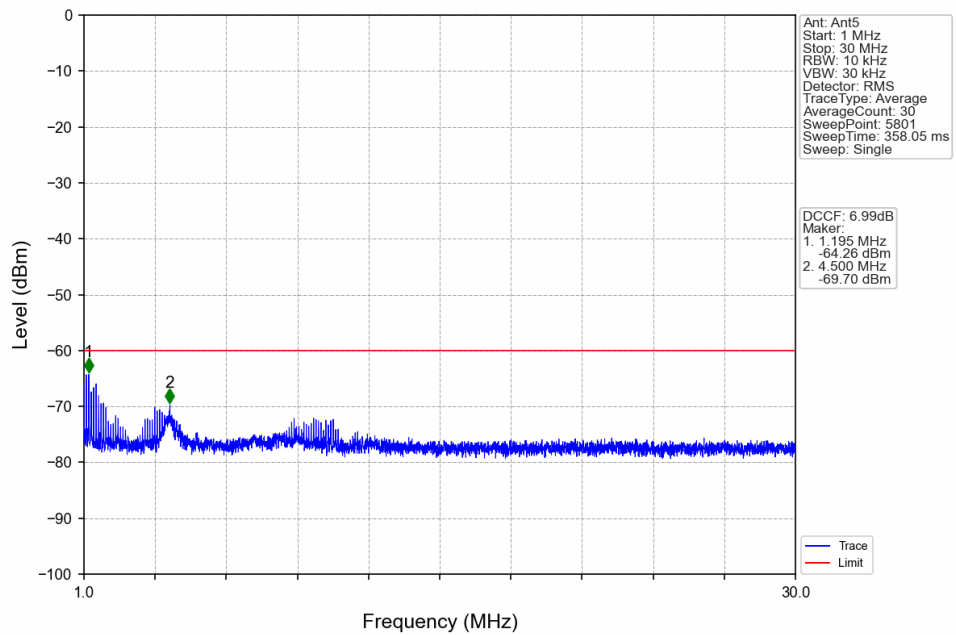
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Inner 1RB Left



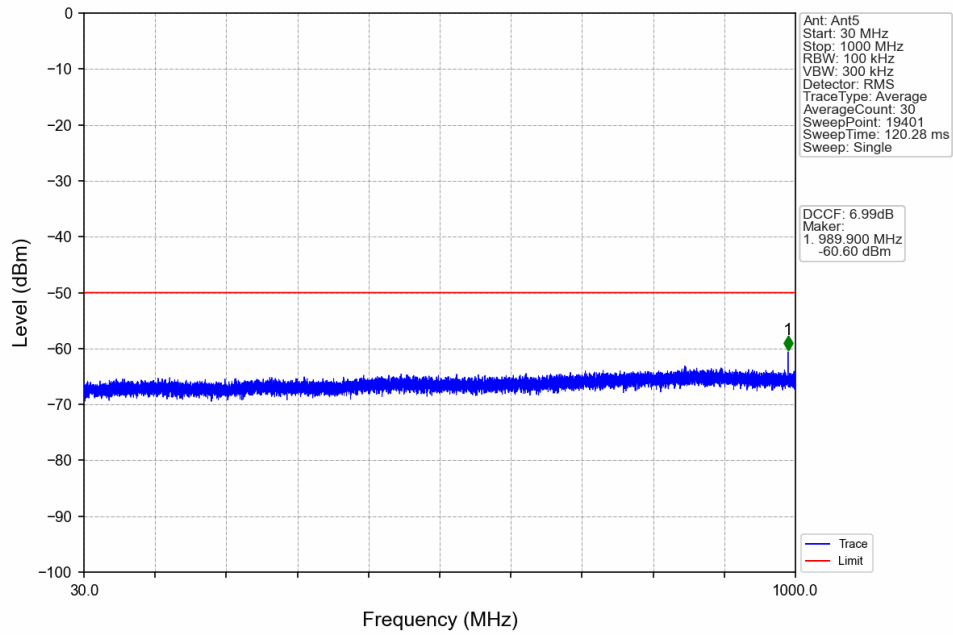
n48 30kHz SISO NTNV 10MHz DFT-s-OFDM QPSK 3555MHz Inner 1RB Left



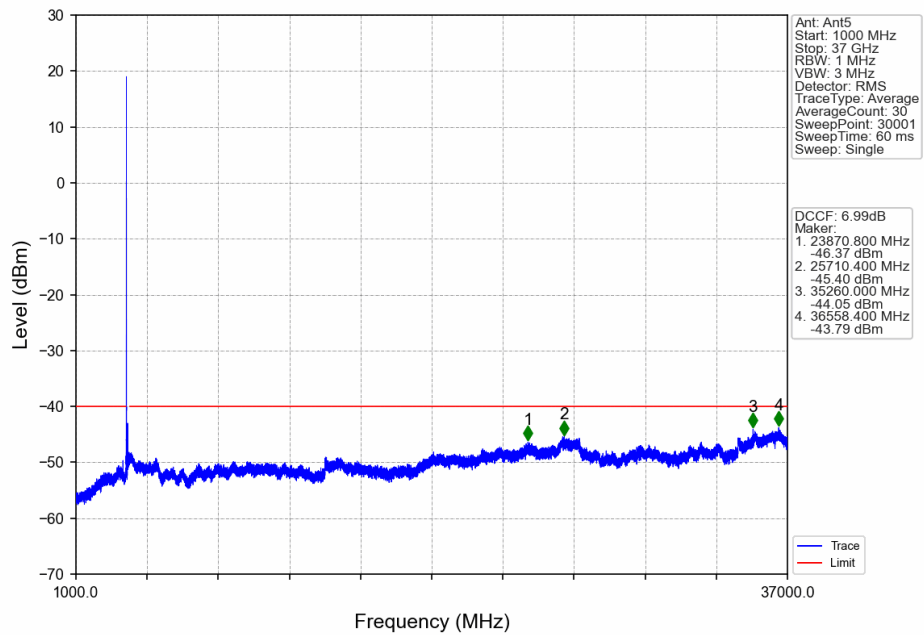
n48 30kHz SISO NTNV 10MHz DFT-s-OFDM QPSK 3555MHz Inner 1RB Left



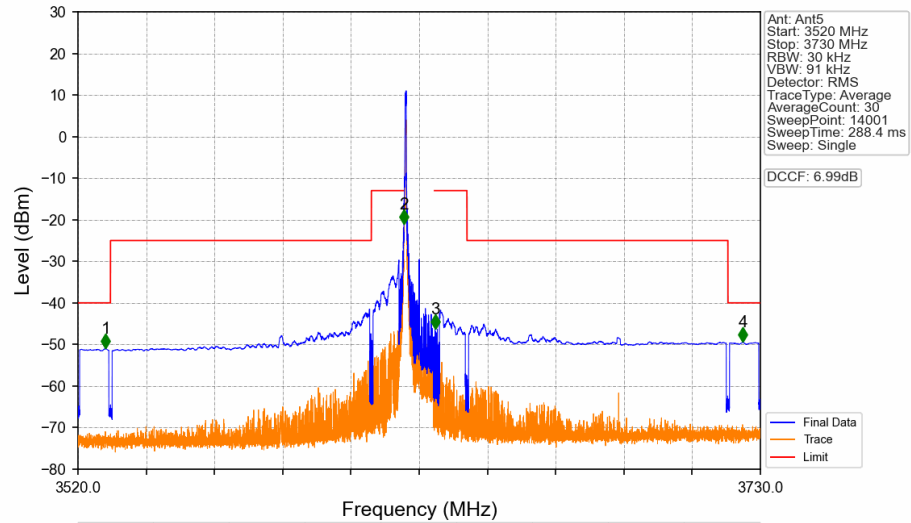
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3555MHz Inner 1RB Left



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

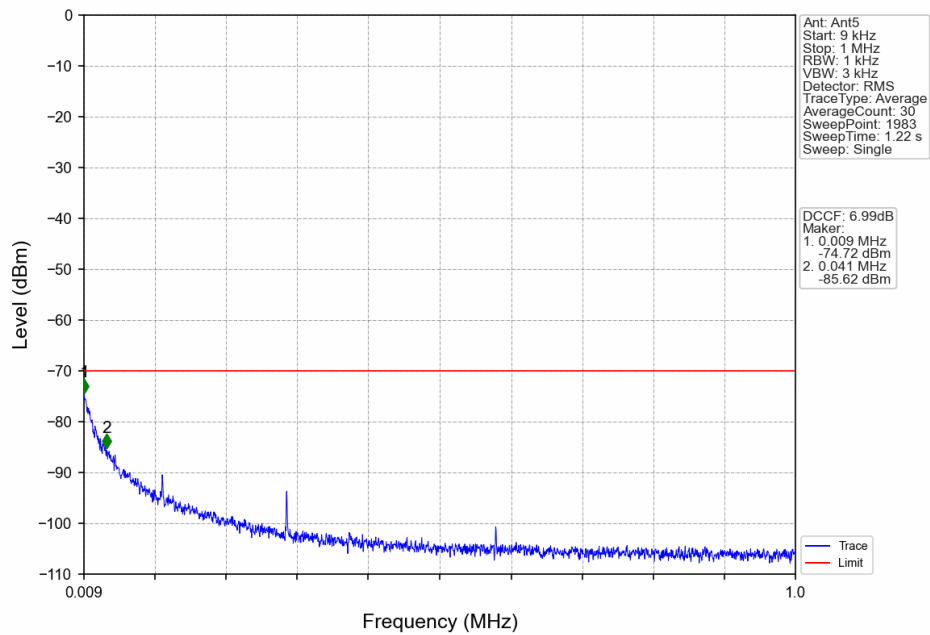


n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3624.99MHz Edge 1RB Left

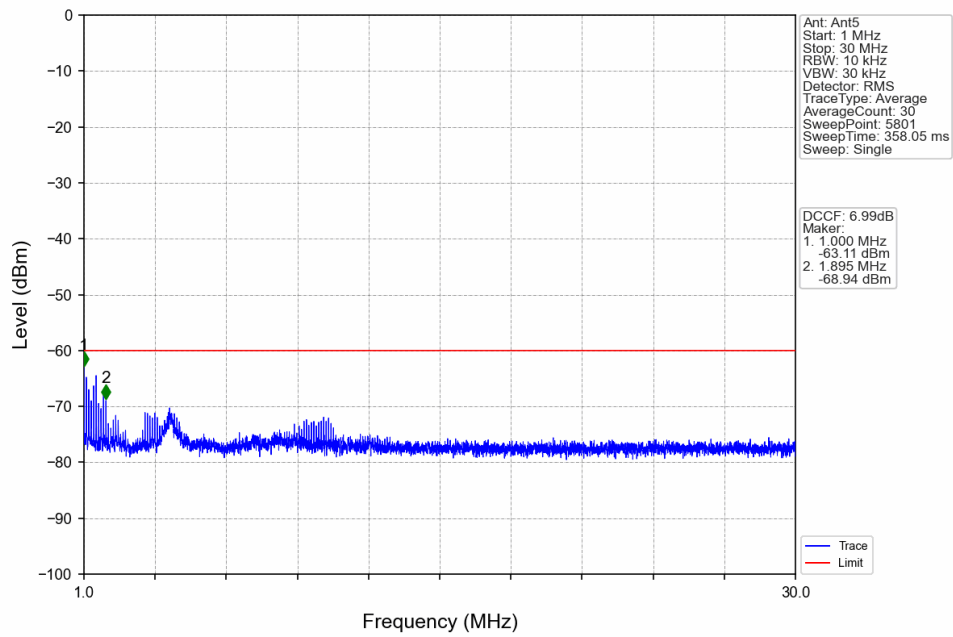


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3619.281	1	CHP	1	3528.475	-50.99	-40	Pass
3619.281	3620.281	0.03	/	2	3620.275	-20.97	-13	Pass
3620.281	3629.699	0.03	/	/	/	/	/	/
3629.699	3630.699	0.03	/	3	3629.845	-46.20	-13	Pass
3630.699	3730	1	CHP	4	3724.630	-49.43	-40	Pass

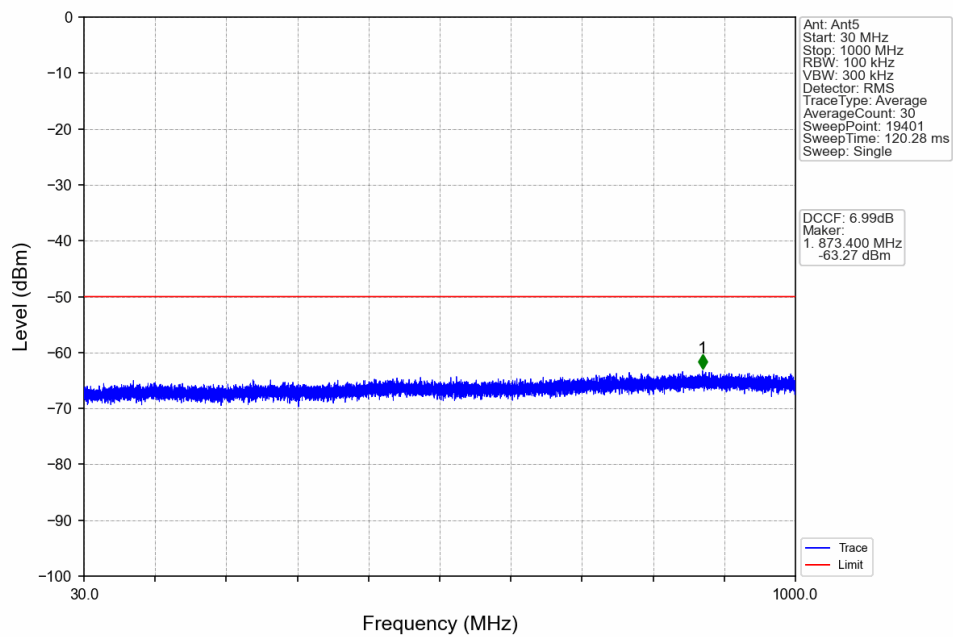
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3624.99MHz Edge 1RB Left



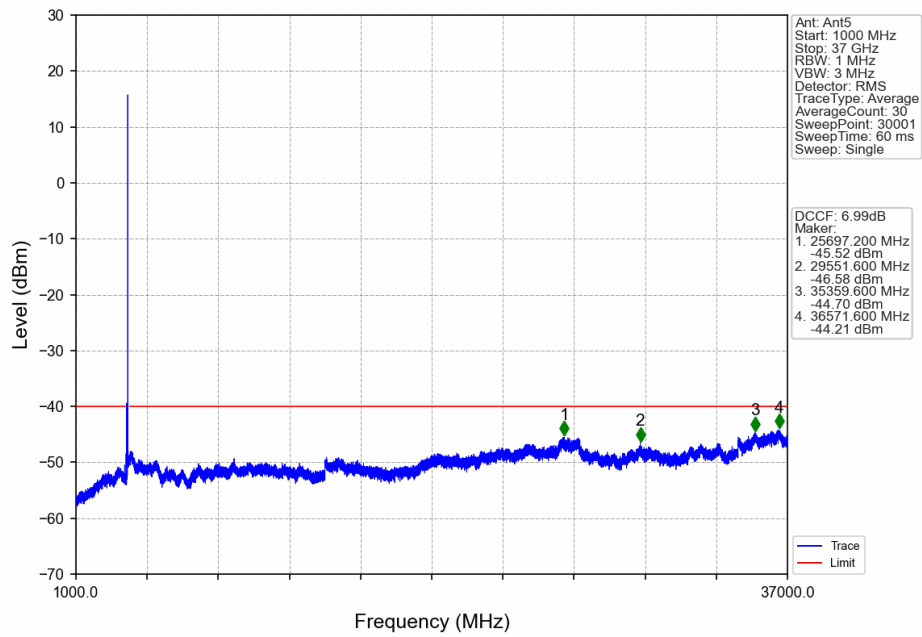
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3624.99MHz Edge 1RB Left



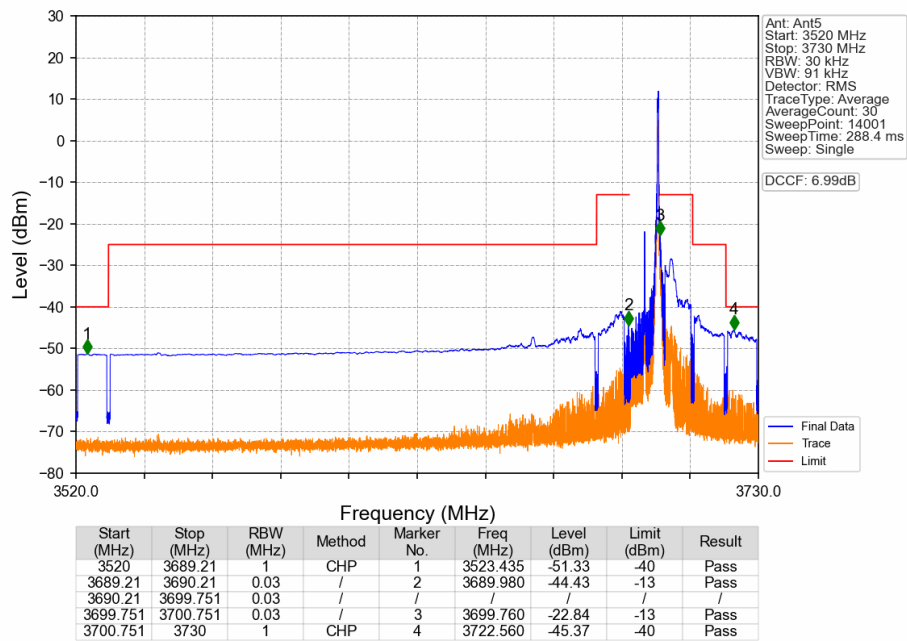
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3624.99MHz Edge 1RB Left



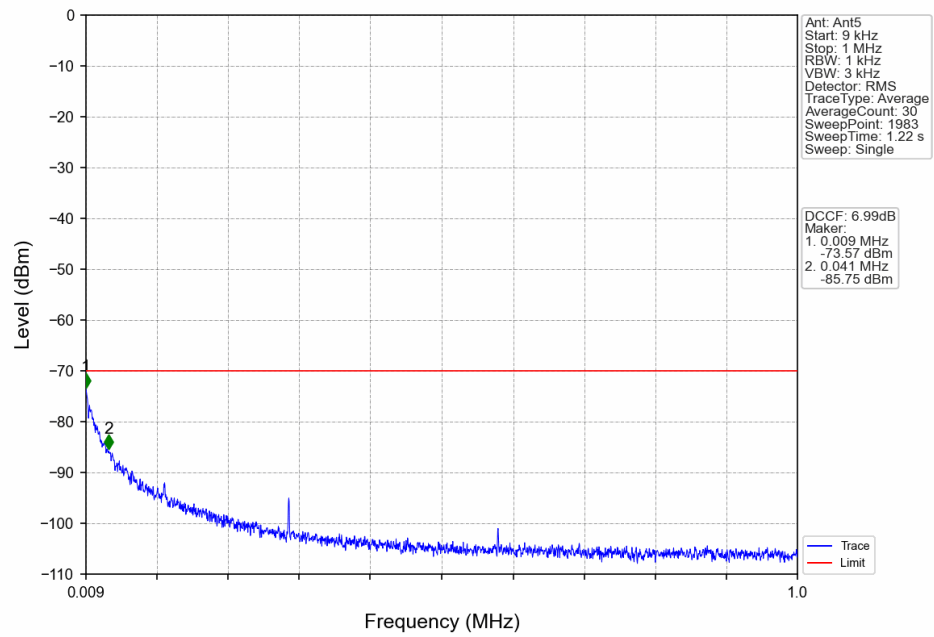
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3624.99MHz Edge 1RB Left



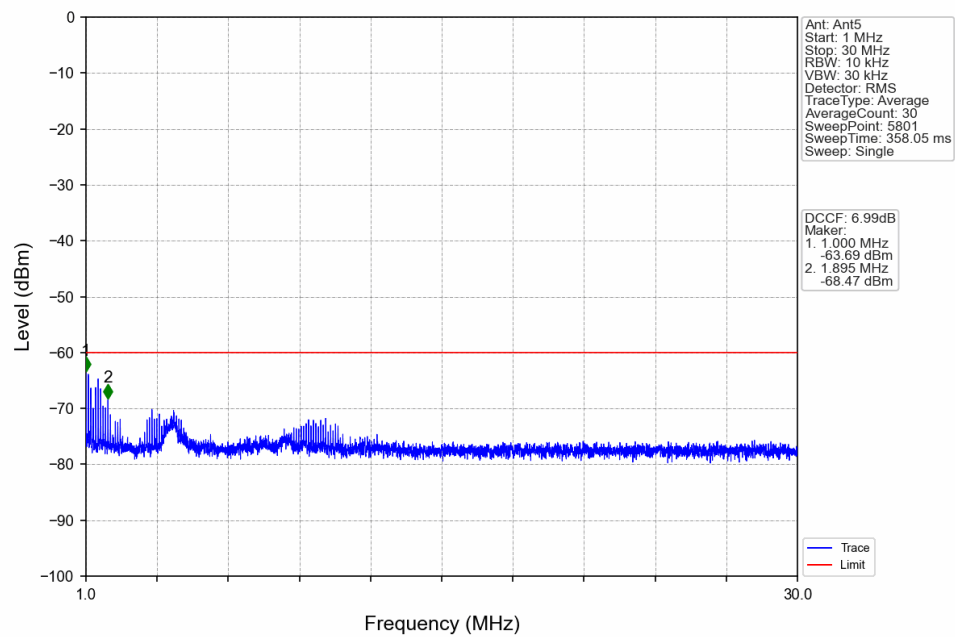
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Edge 1RB Right



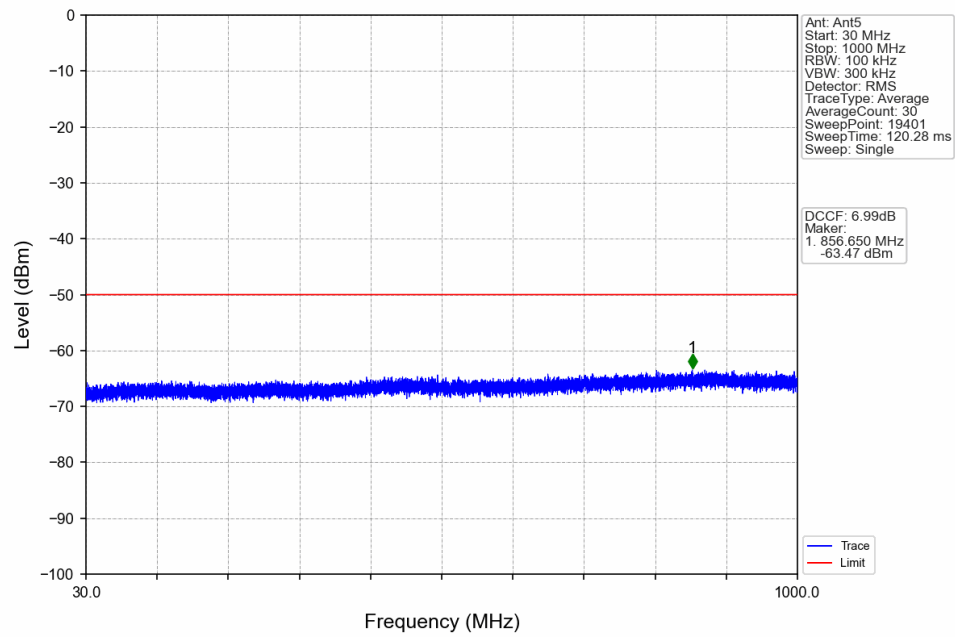
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Edge 1RB Right



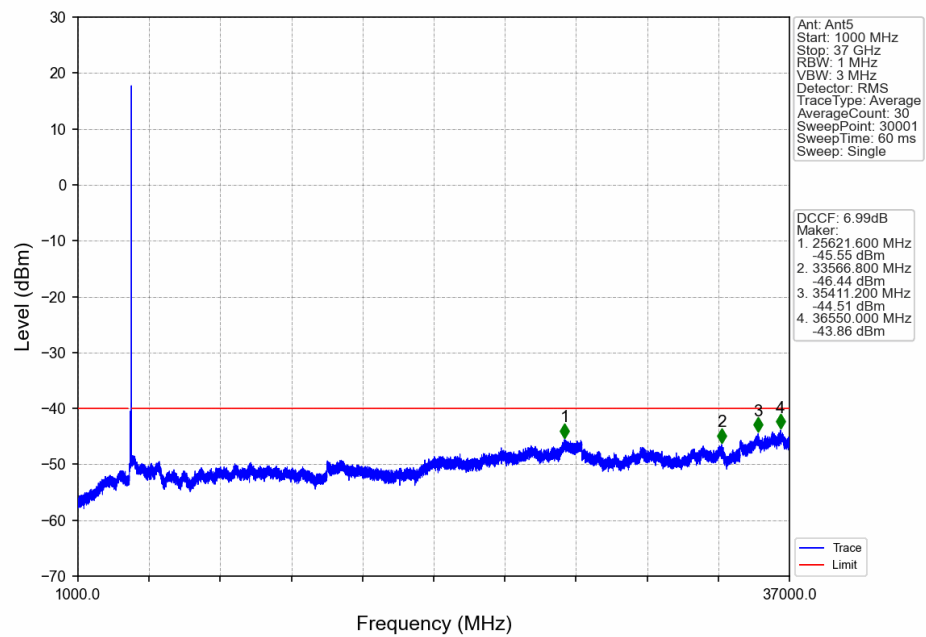
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Edge 1RB Right



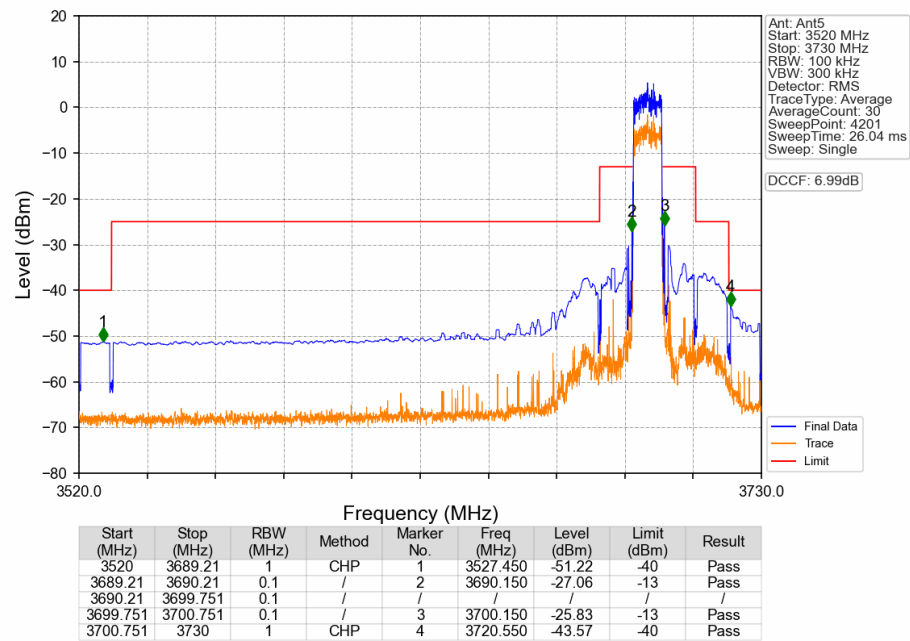
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Edge 1RB Right



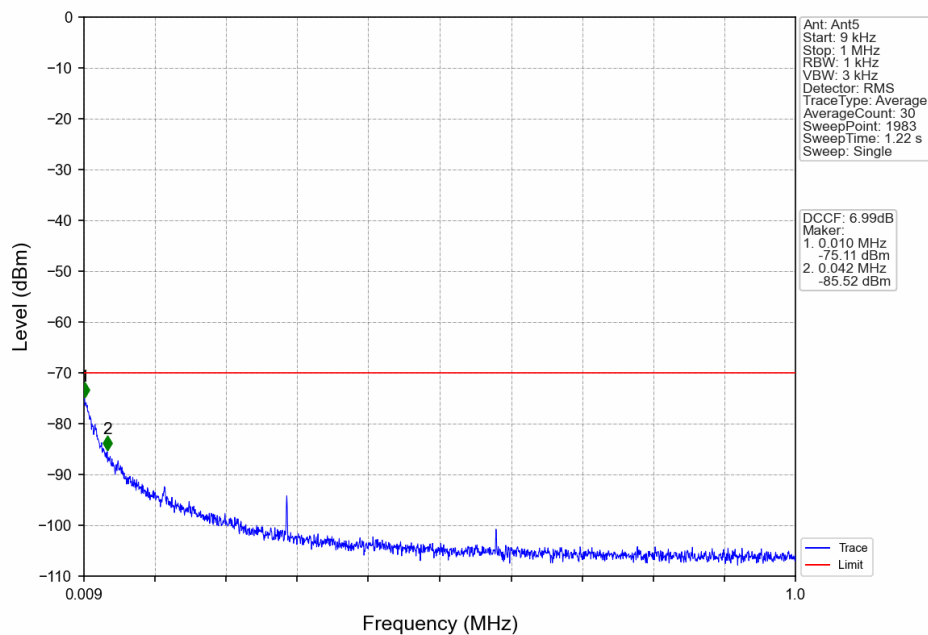
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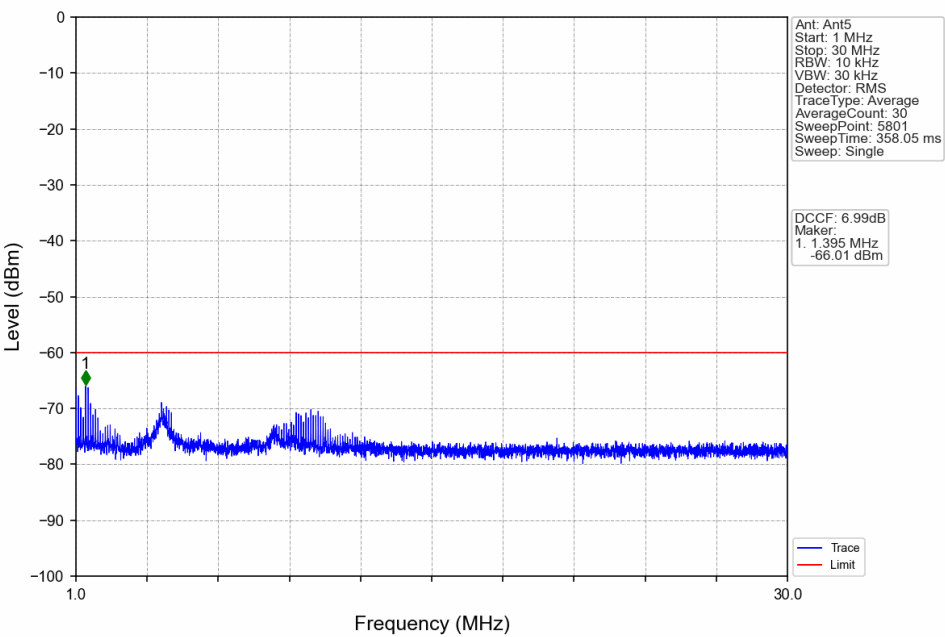
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Outer Full



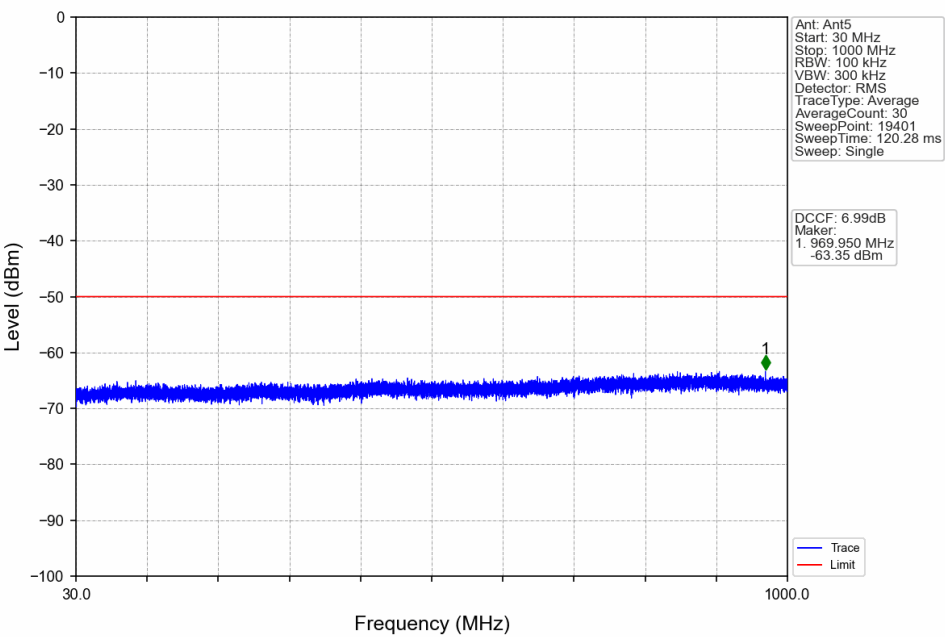
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Outer Full



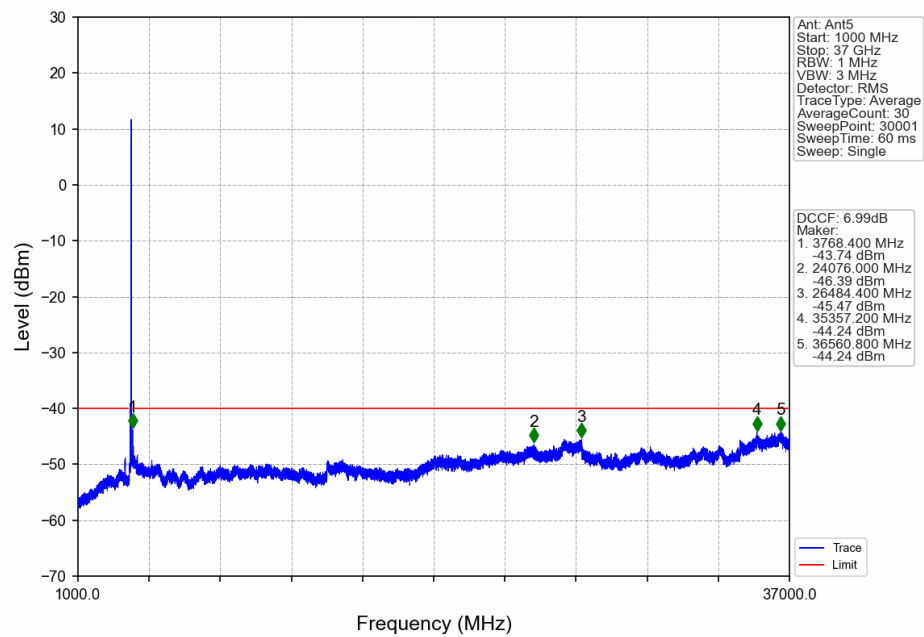
n48 30kHz SISO NTNv 10MHz DFT-s-OFDM QPSK 3694.98MHz Outer Full



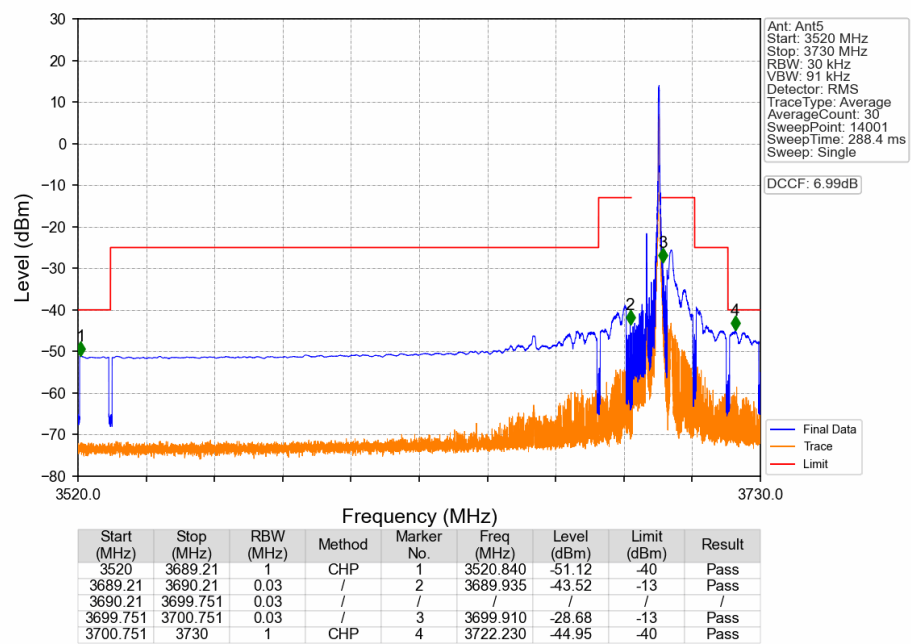
n48 30kHz SISO NTNv 10MHz DFT-s-OFDM QPSK 3694.98MHz Outer Full



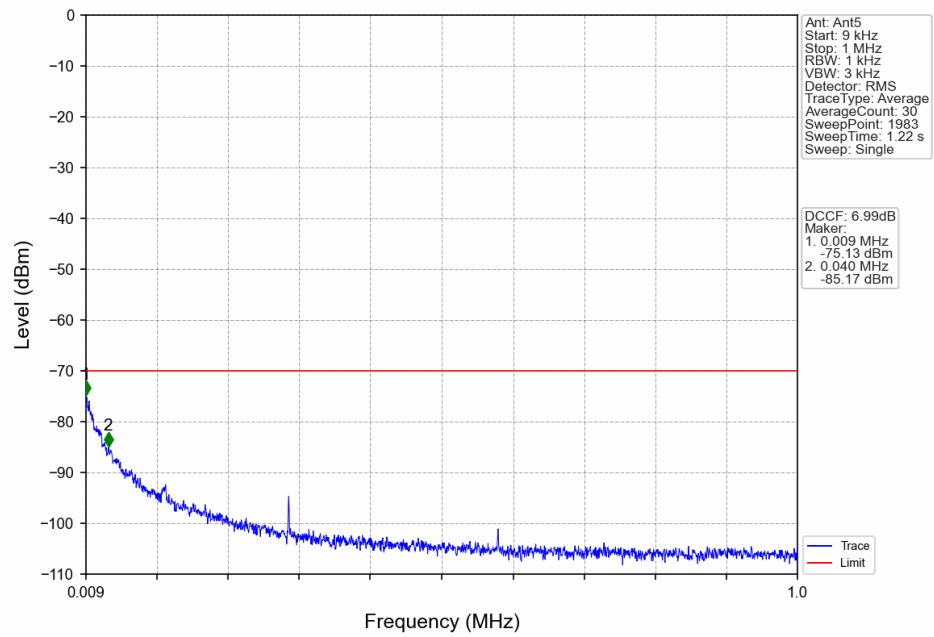
n48 30kHz SISO NTNv 10MHz DFT-s-OFDM QPSK 3694.98MHz Outer Full



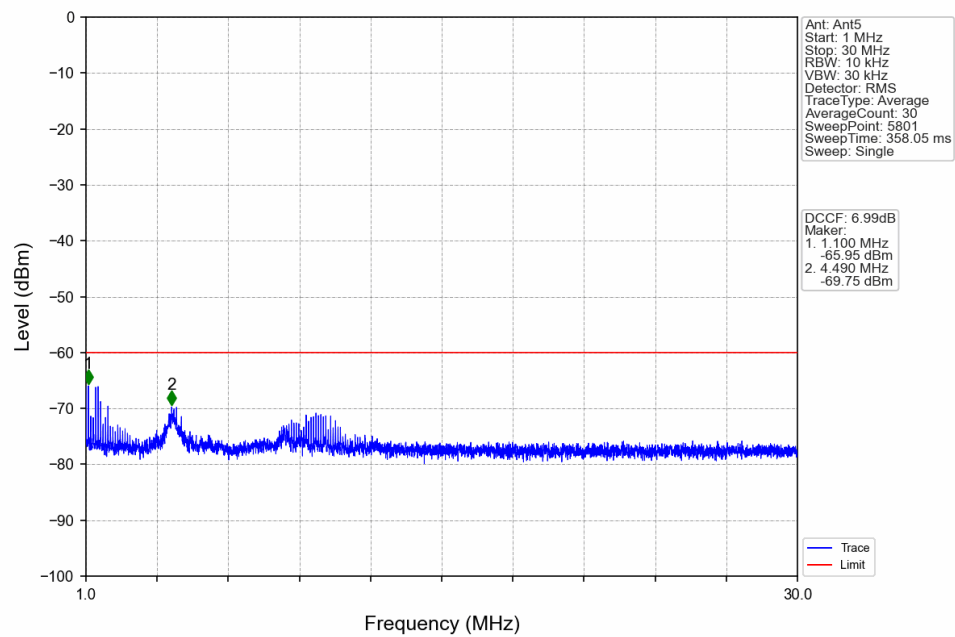
n48 30kHz SISO NTNv 10MHz DFT-s-OFDM QPSK 3694.98MHz Inner 1RB Right



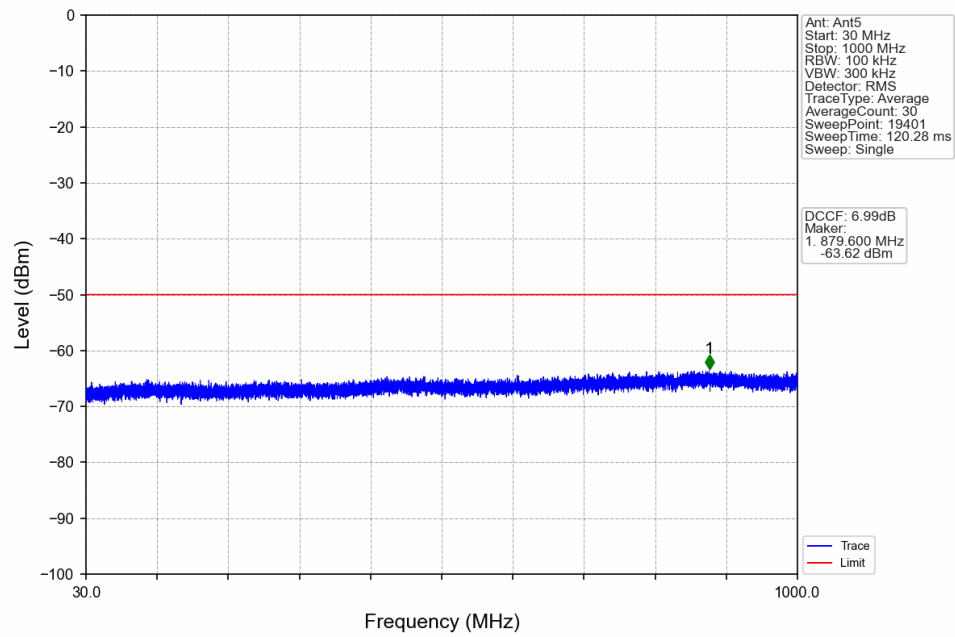
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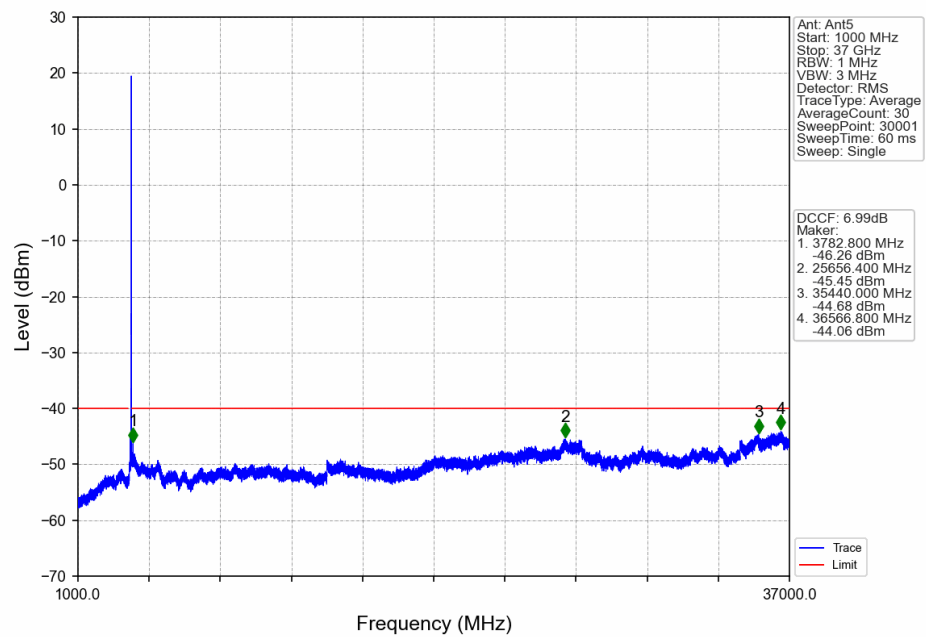
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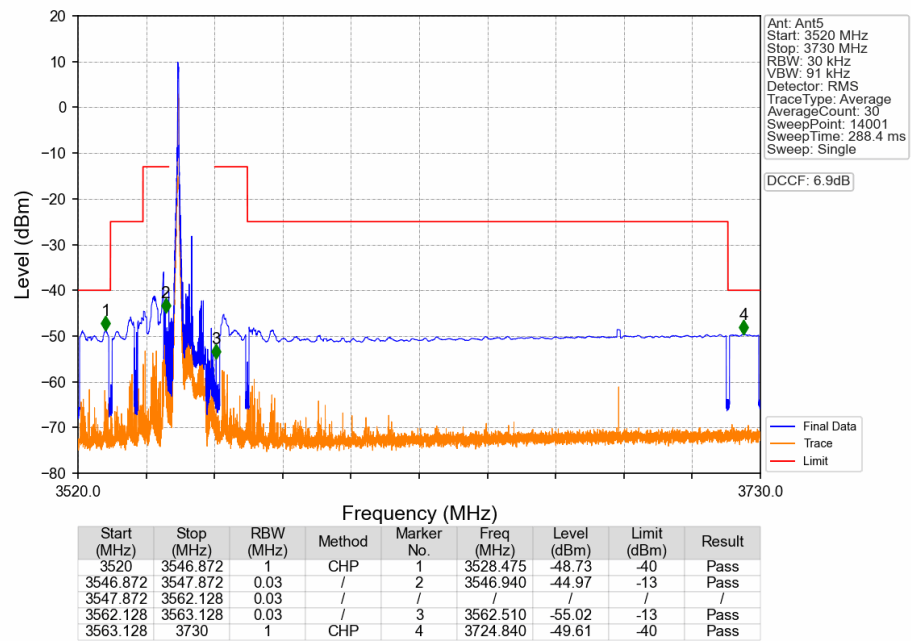
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Inner 1RB Right



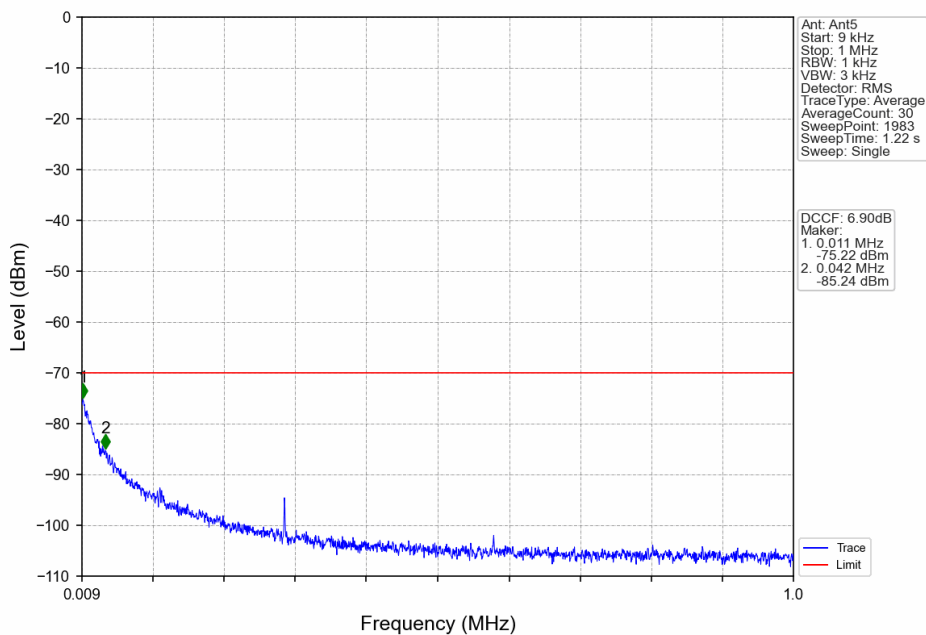
n48 30kHz SISO NTN 10MHz DFT-s-OFDM QPSK 3694.98MHz Inner 1RB Right



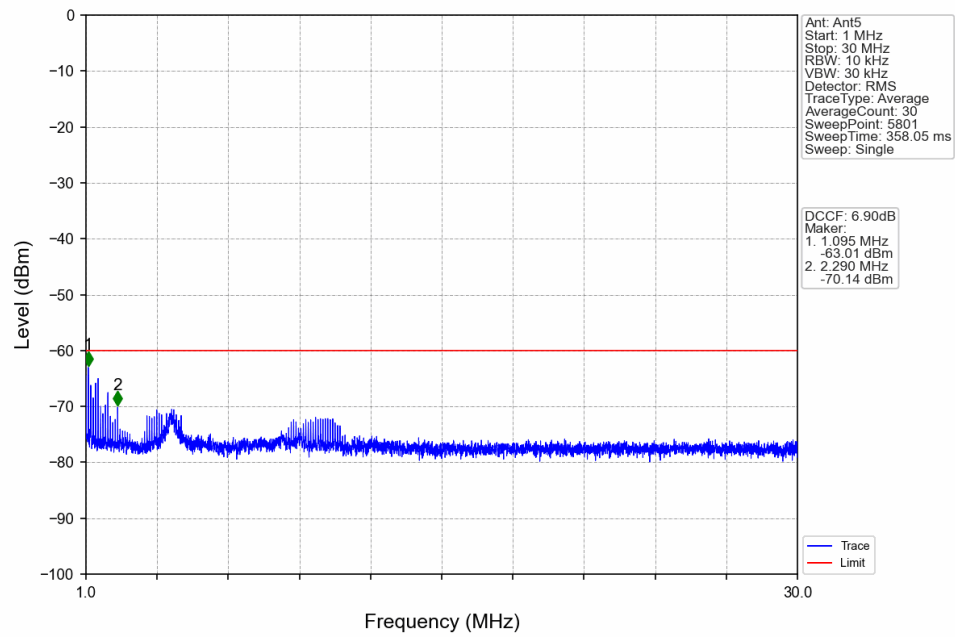
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Edge 1RB Left



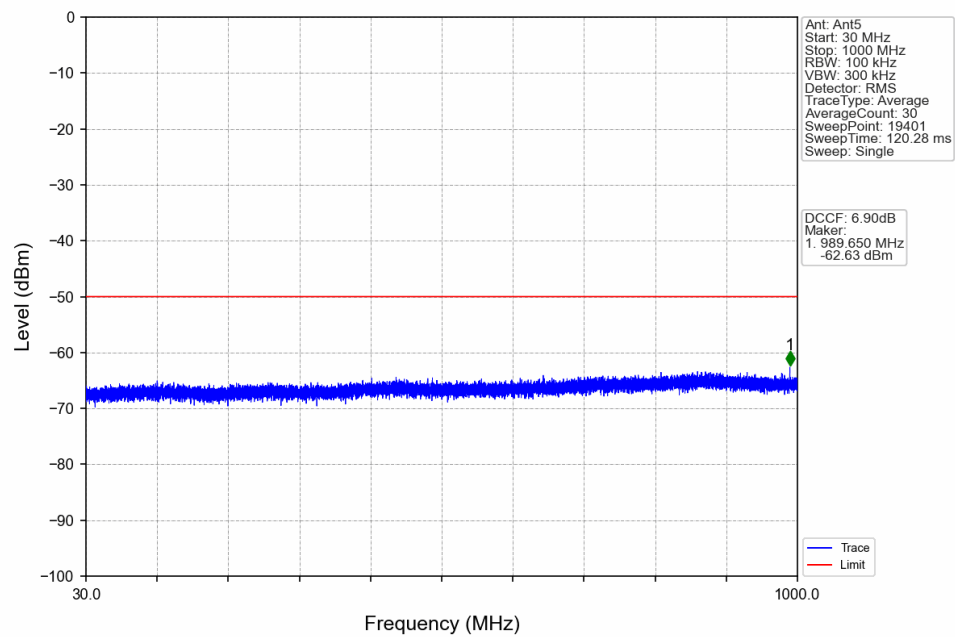
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Edge 1RB Left



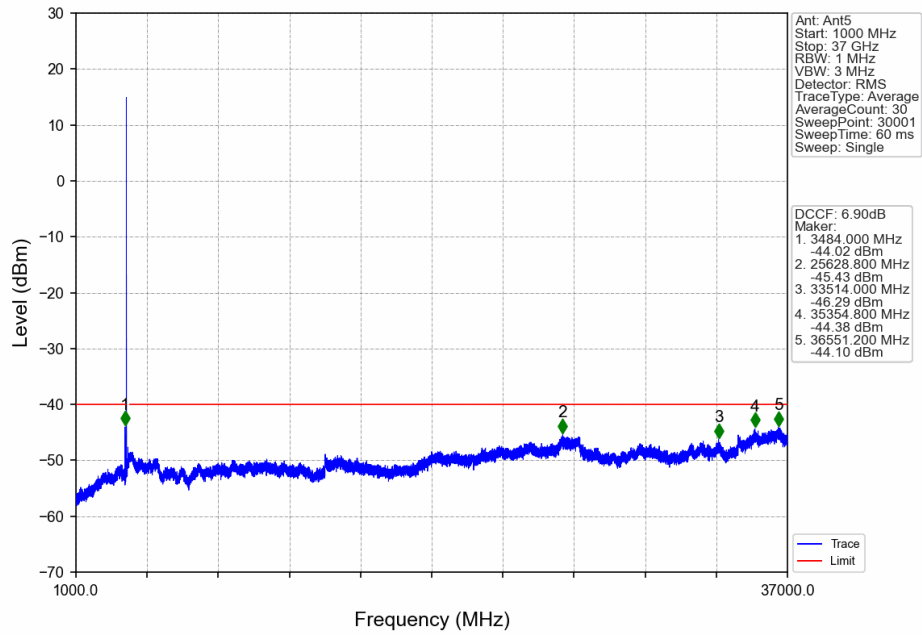
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Edge 1RB Left



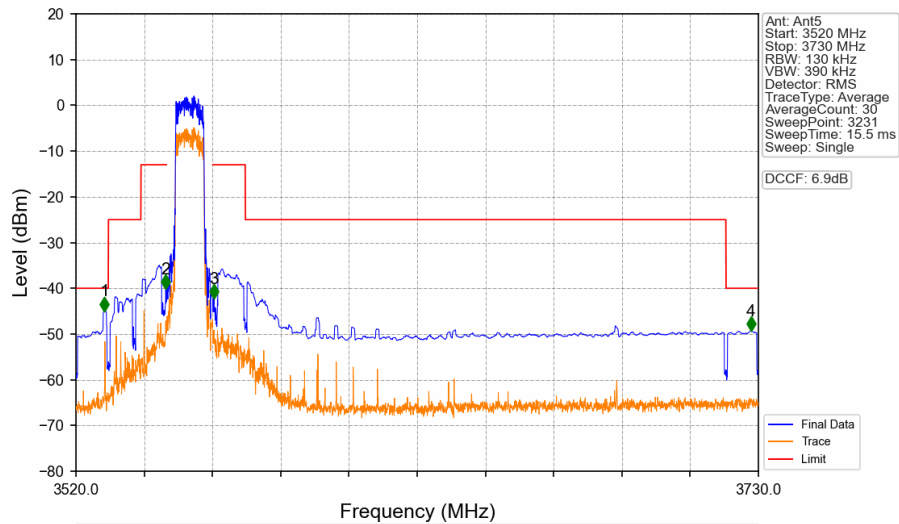
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Edge 1RB Left



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

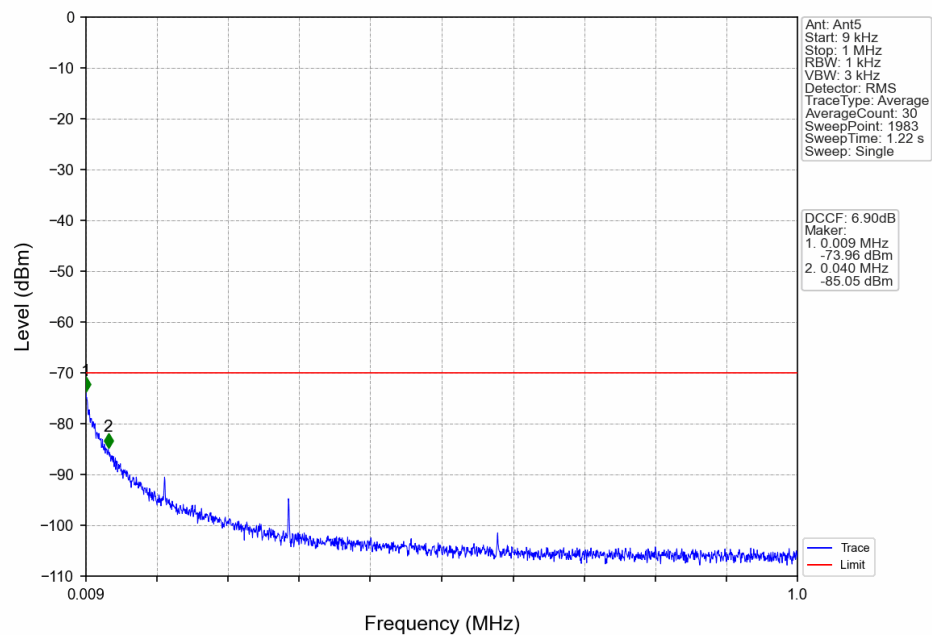


n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Outer Full

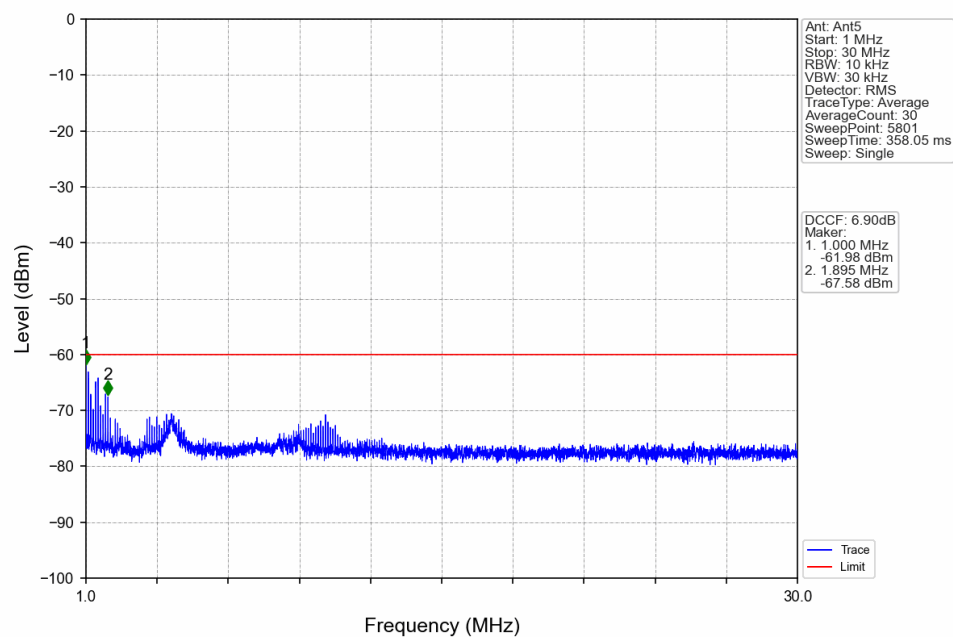


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3546.872	1	CHP	1	3528.712	-45.01	-40	Pass
3546.872	3547.872	0.13	/	2	3547.632	-40.22	-13	Pass
3547.872	3562.128	0.13	/	/	/	/	/	/
3562.128	3563.128	0.13	/	3	3562.455	-42.27	-13	Pass
3563.128	3730	1	CHP	4	3727.659	-49.30	-40	Pass

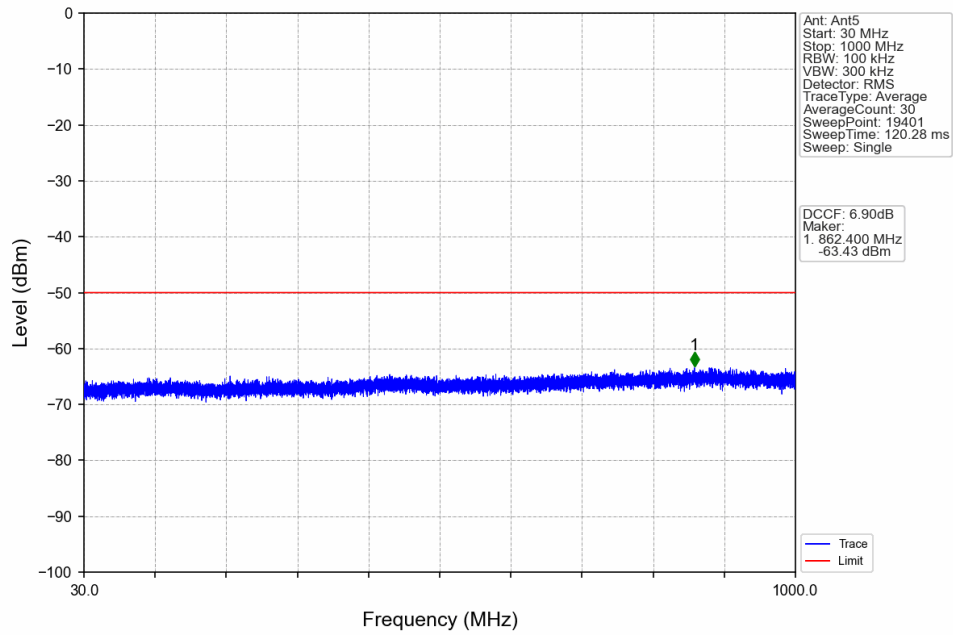
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_3555MHz_Outer_Full



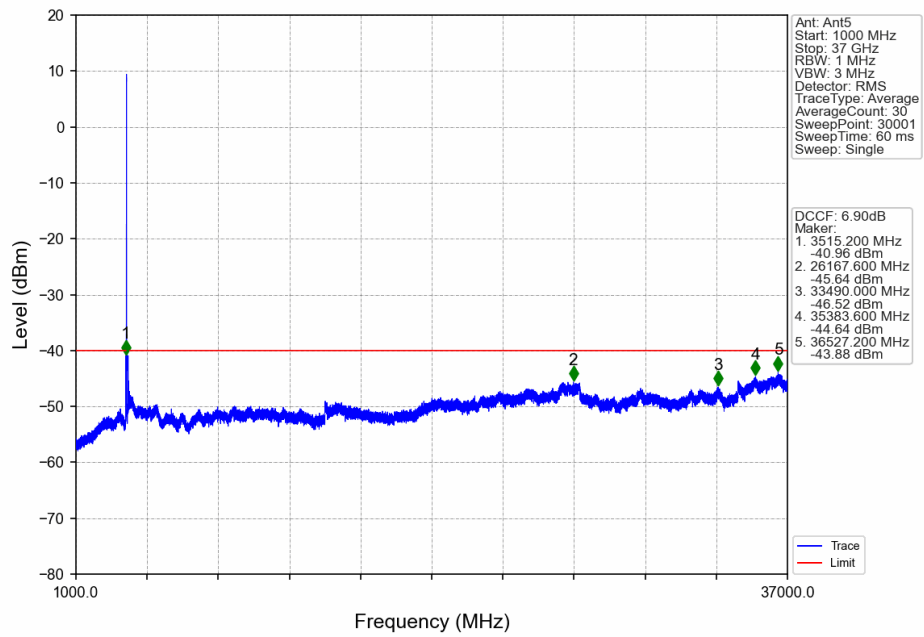
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_3555MHz_Outer_Full



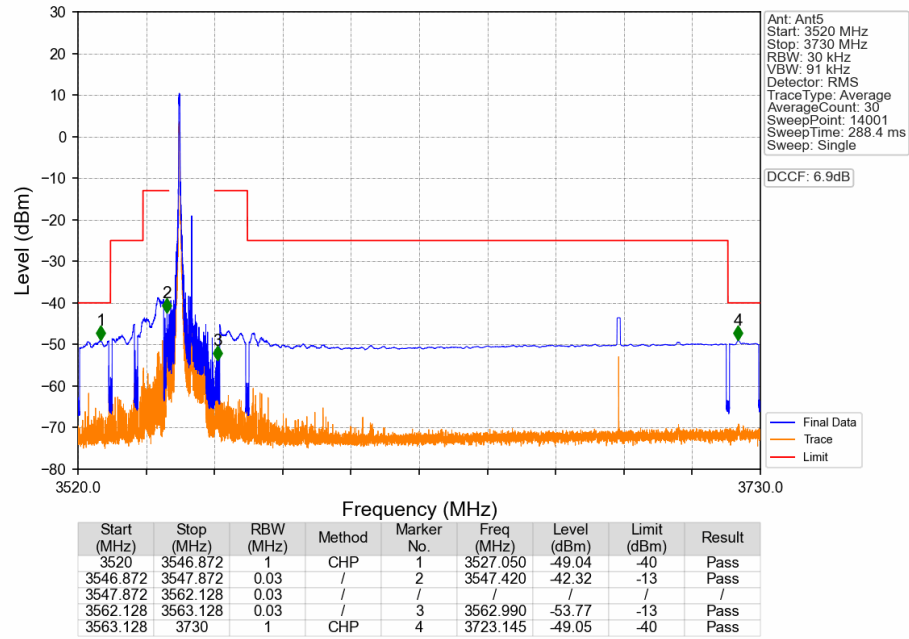
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Outer Full



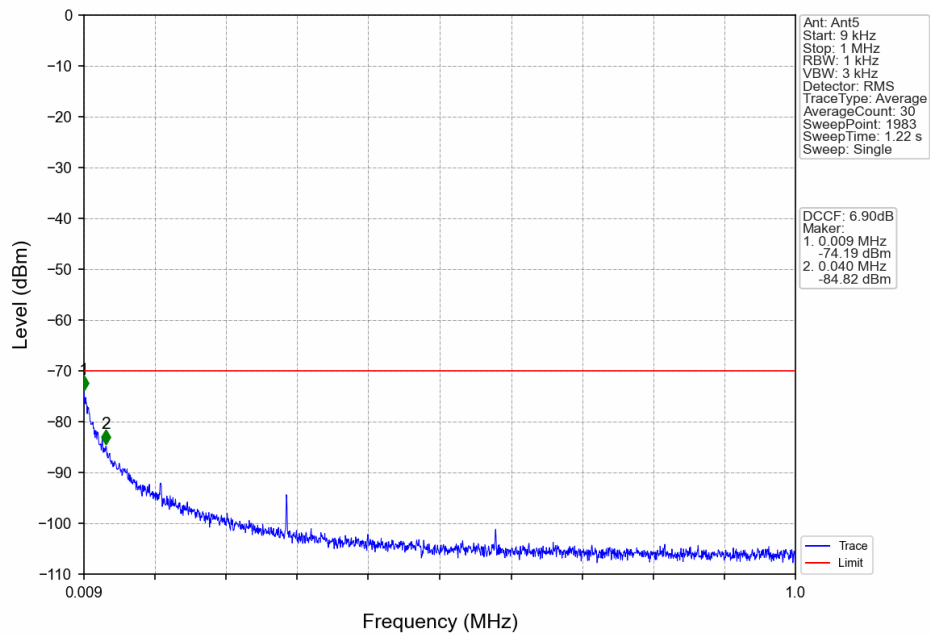
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Outer Full



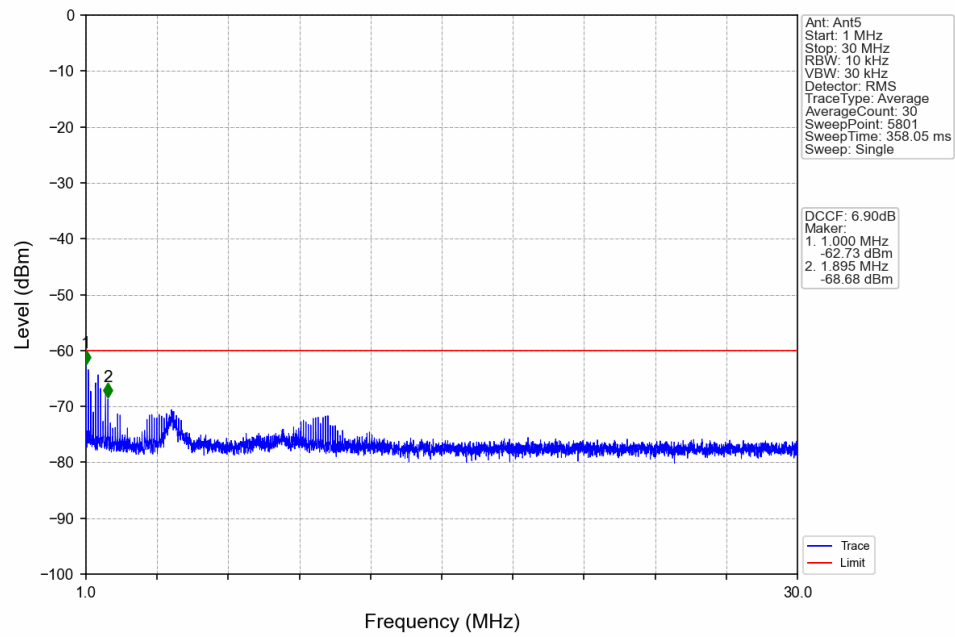
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Inner 1RB Left



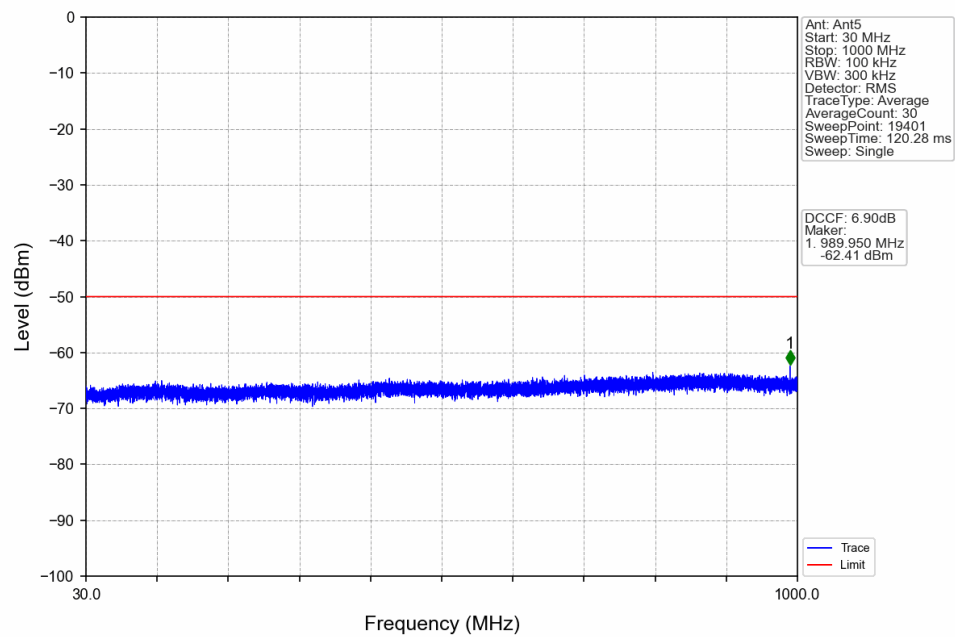
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Inner 1RB Left



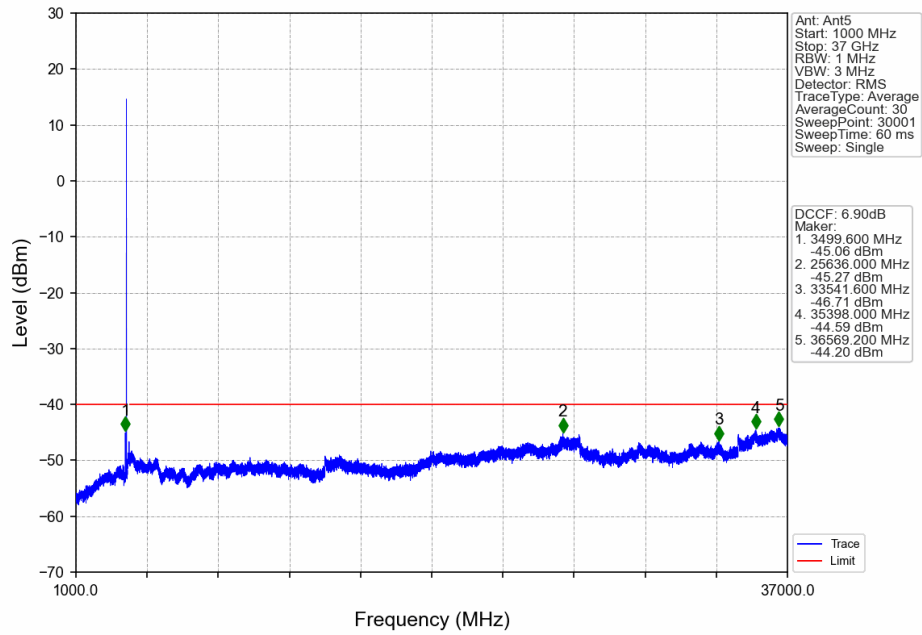
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Inner 1RB Left



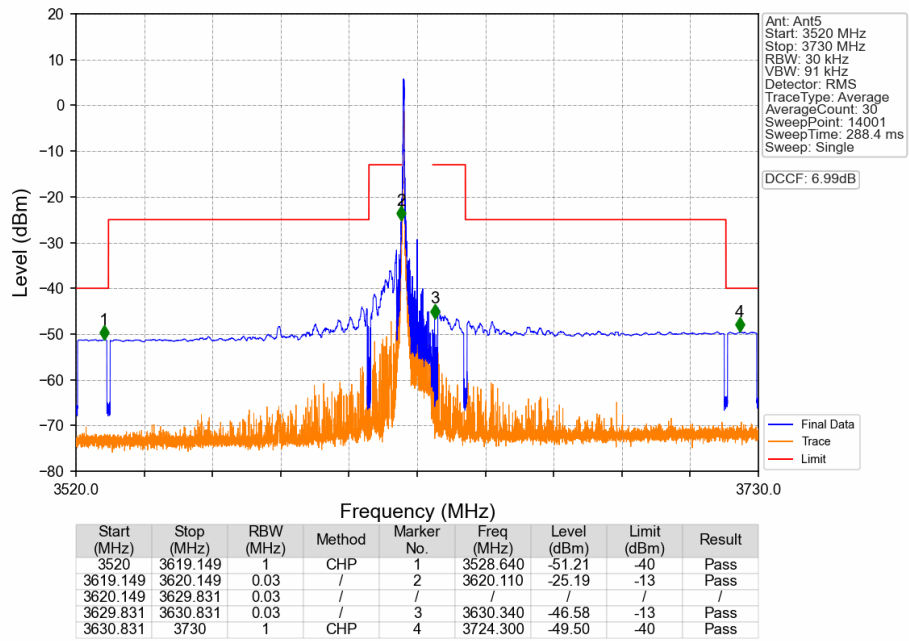
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Inner 1RB Left



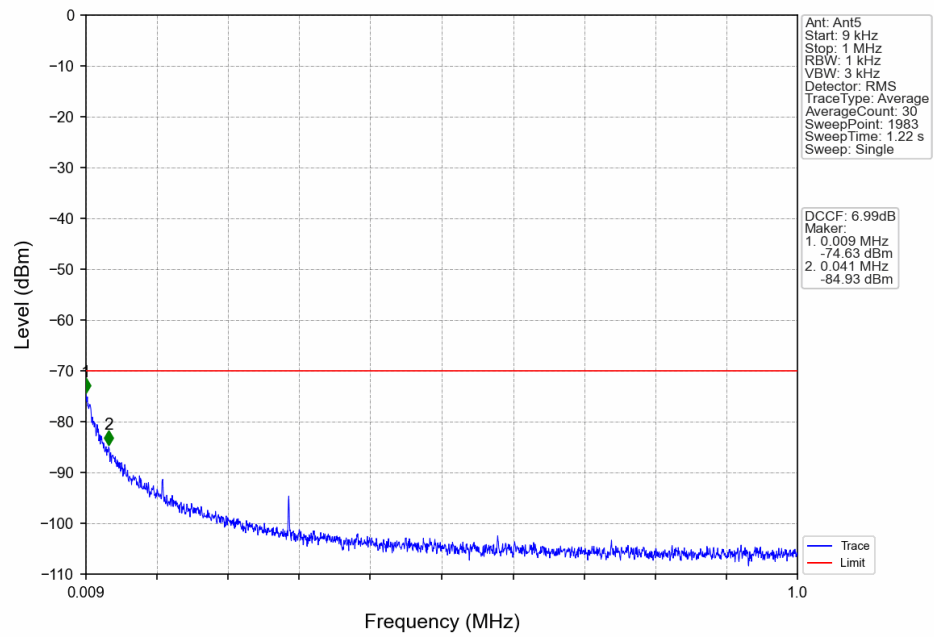
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Inner 1RB Left



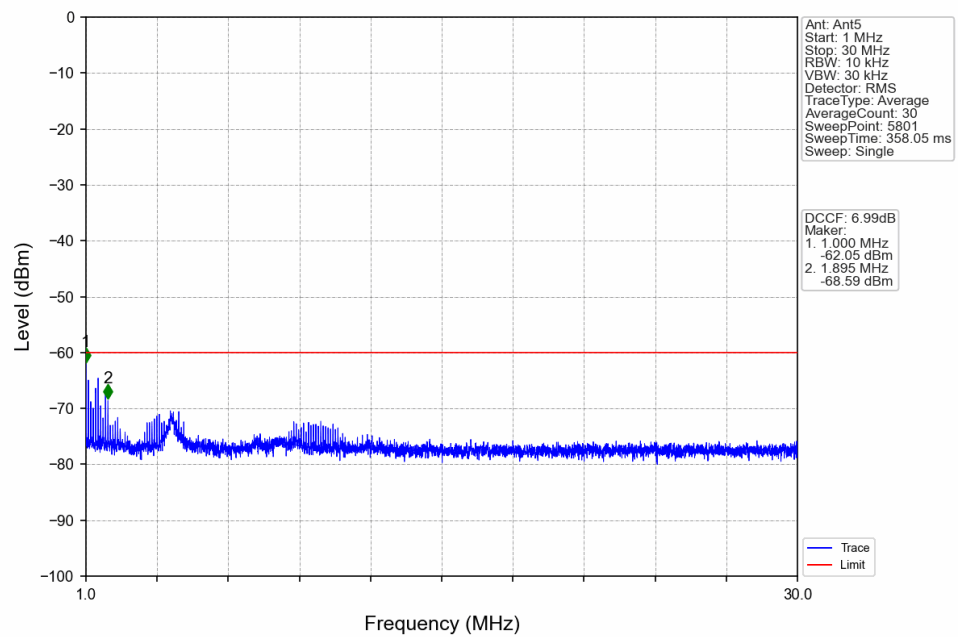
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3624.99MHz Edge 1RB Left



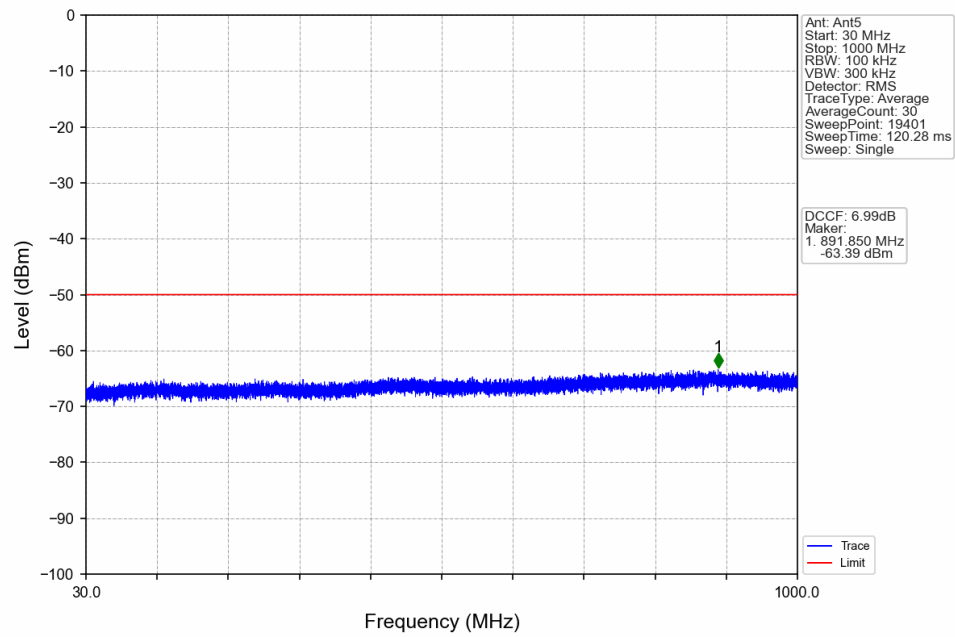
n48 30kHz SISO NTV 10MHz CP-OFDM QPSK 3624.99MHz Edge 1RB Left



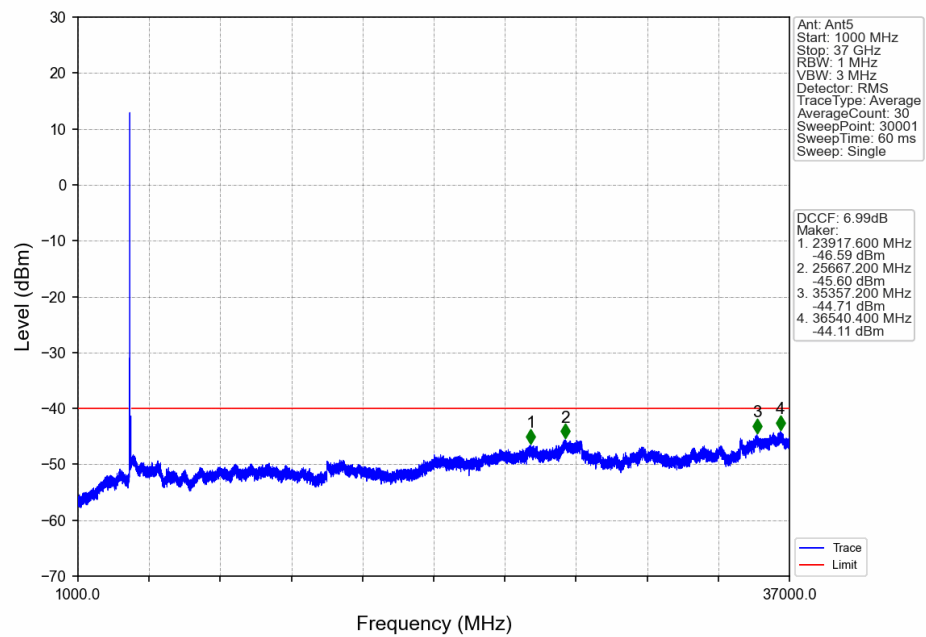
n48 30kHz SISO NTV 10MHz CP-OFDM QPSK 3624.99MHz Edge 1RB Left



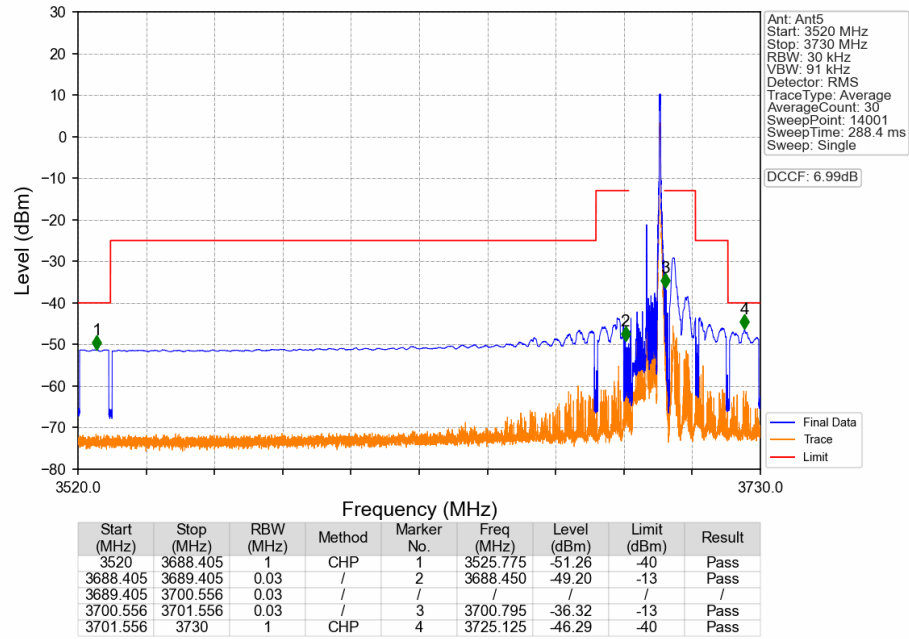
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3624.99MHz Edge 1RB Left



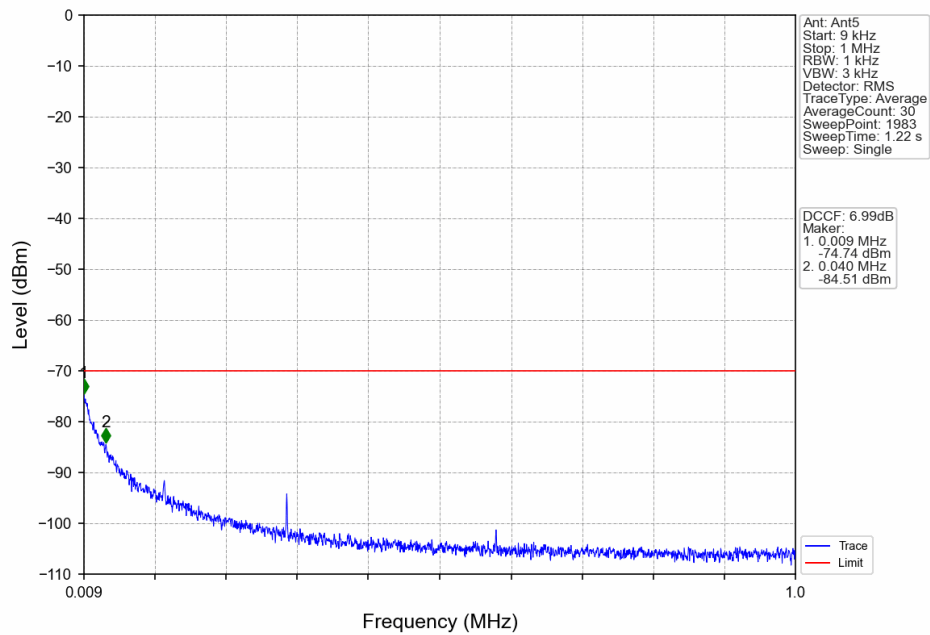
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3624.99MHz Edge 1RB Left



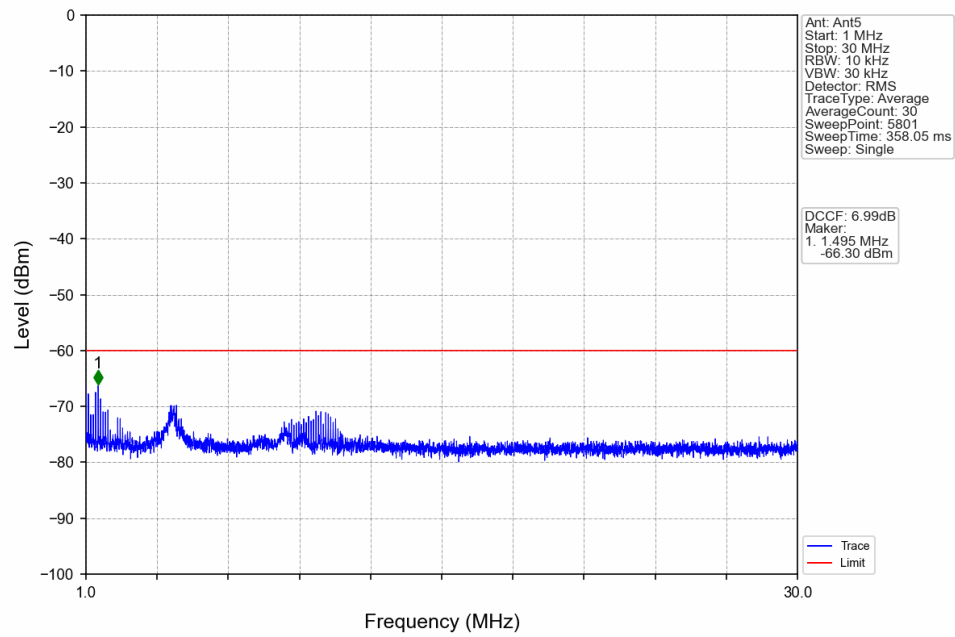
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Edge 1RB Right



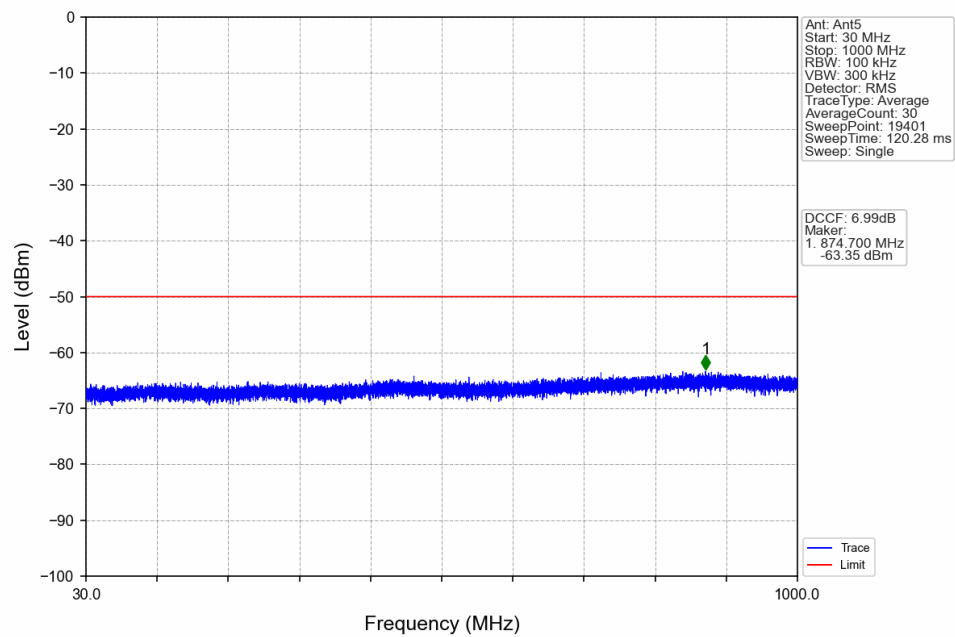
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Edge 1RB Right



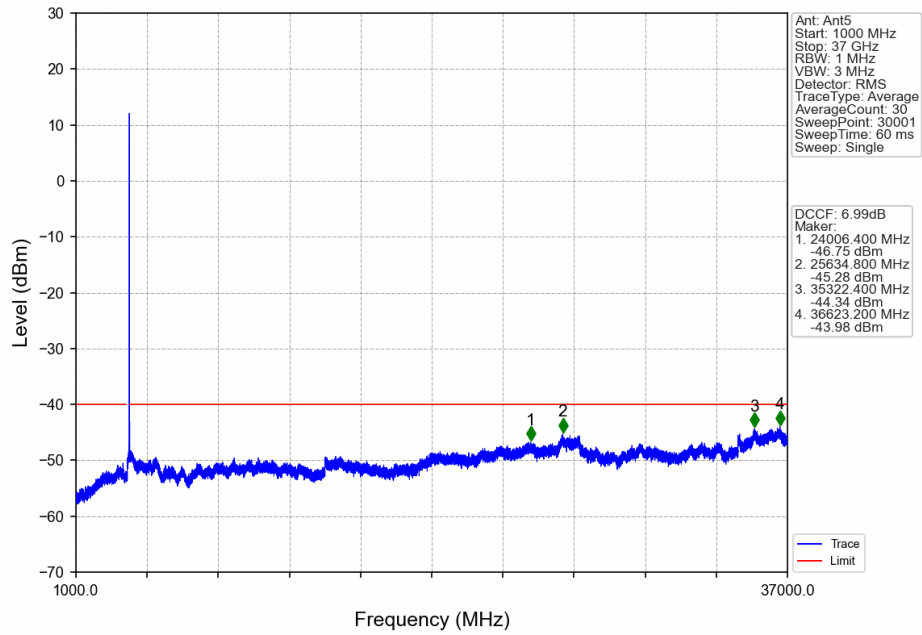
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Edge 1RB Right



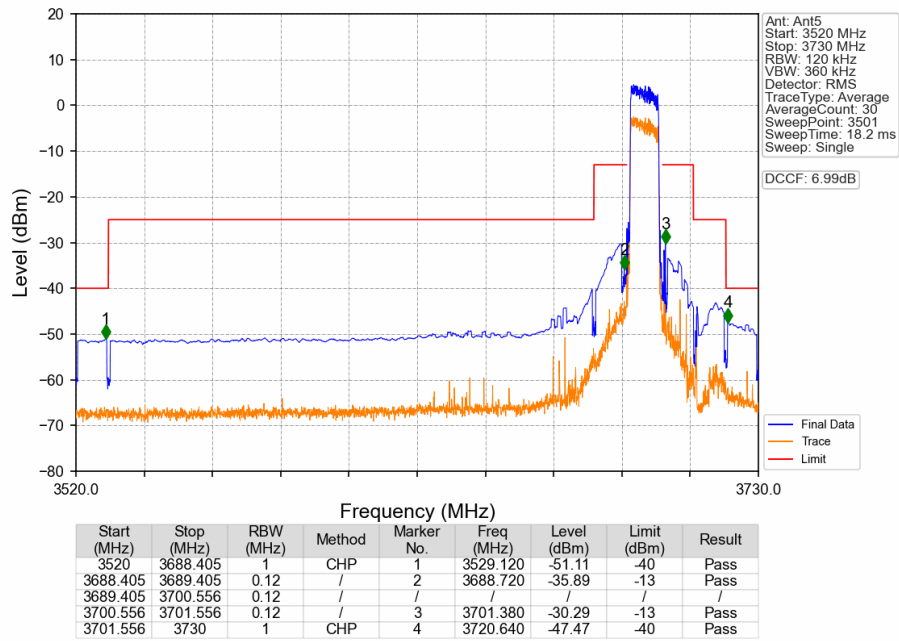
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Edge 1RB Right



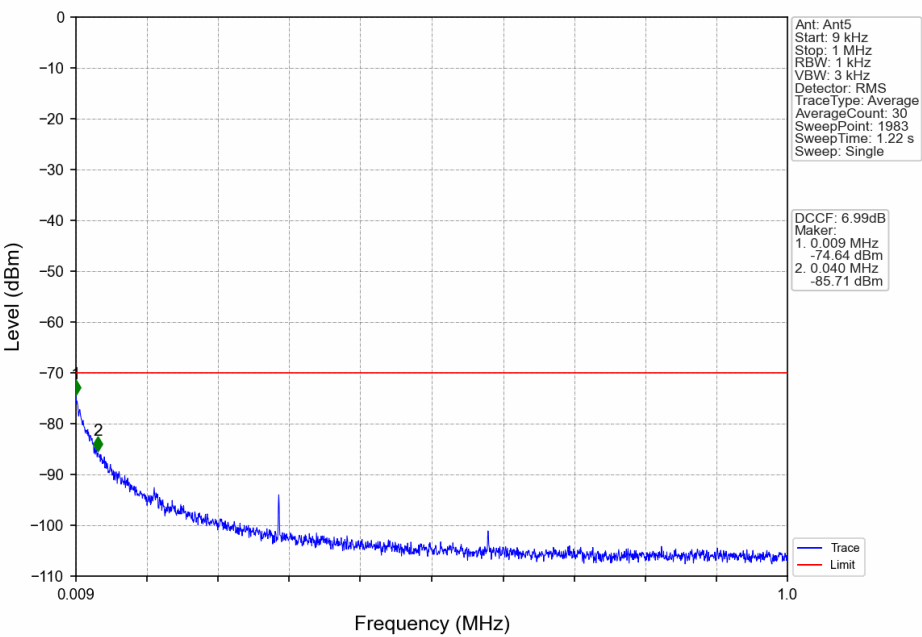
n48 30kHz SISO NTV 10MHz CP-OFDM QPSK 3694.98MHz Edge 1RB Right



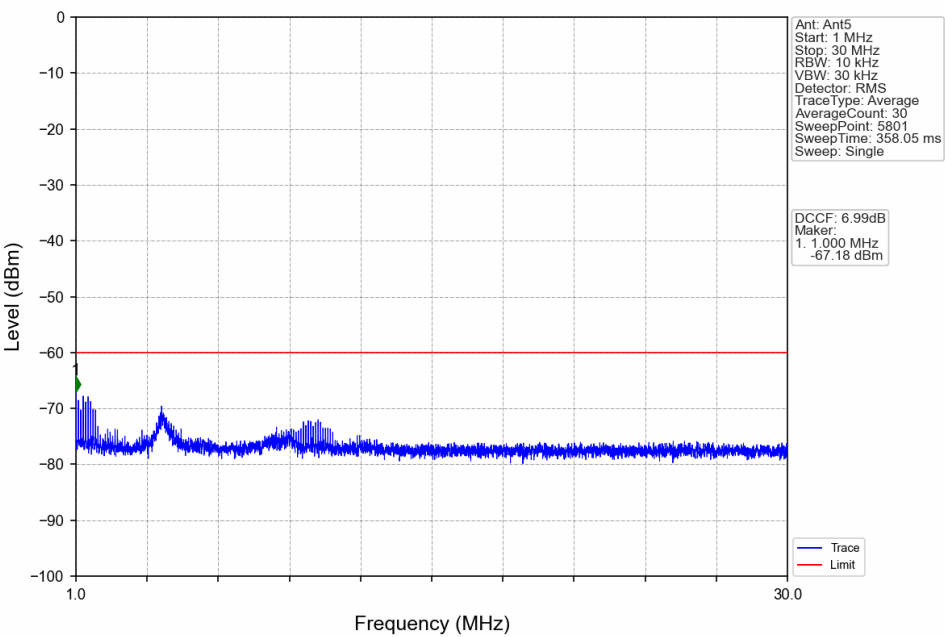
n48 30kHz SISO NTV 10MHz CP-OFDM QPSK 3694.98MHz Outer Full



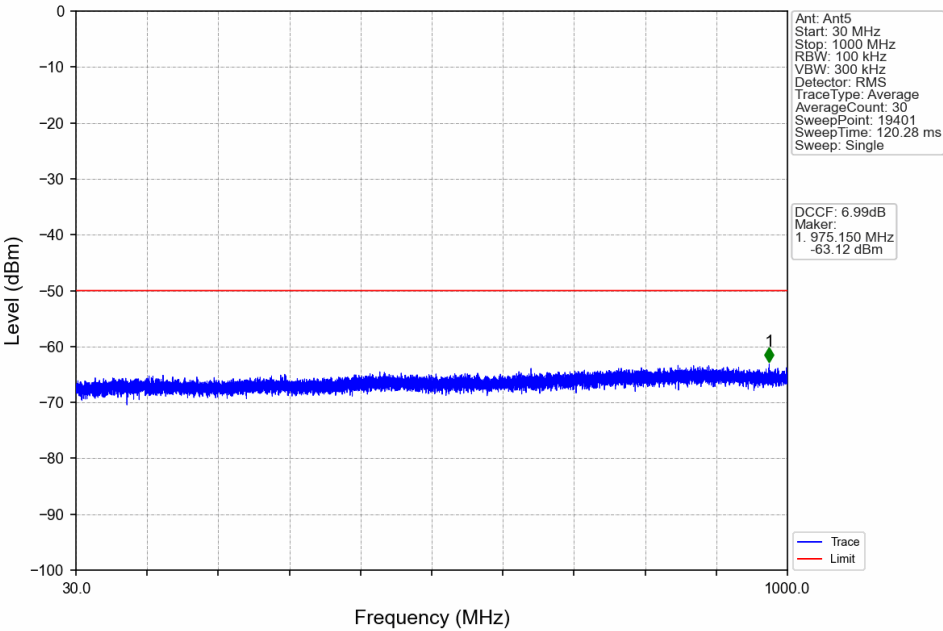
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Outer Full



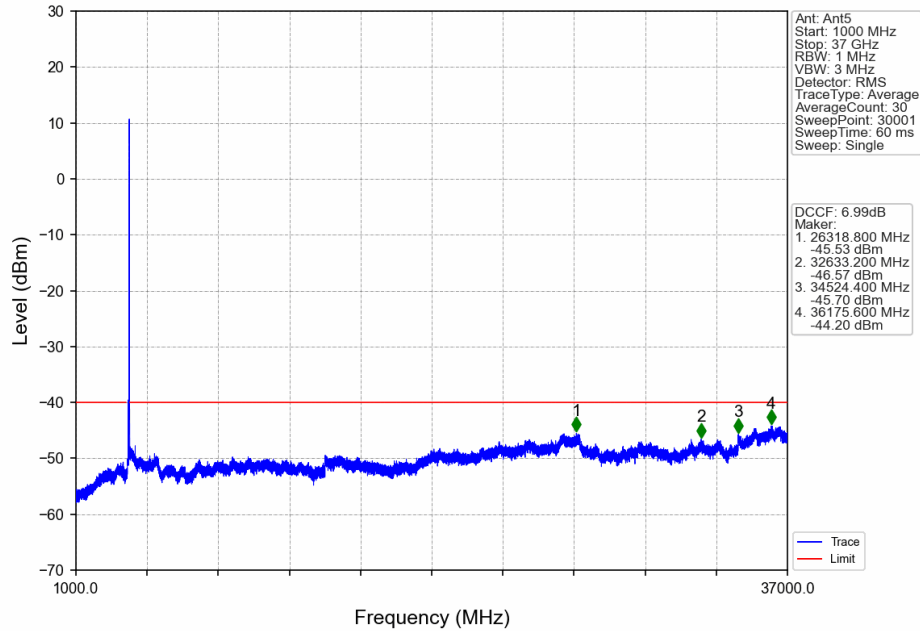
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Outer Full



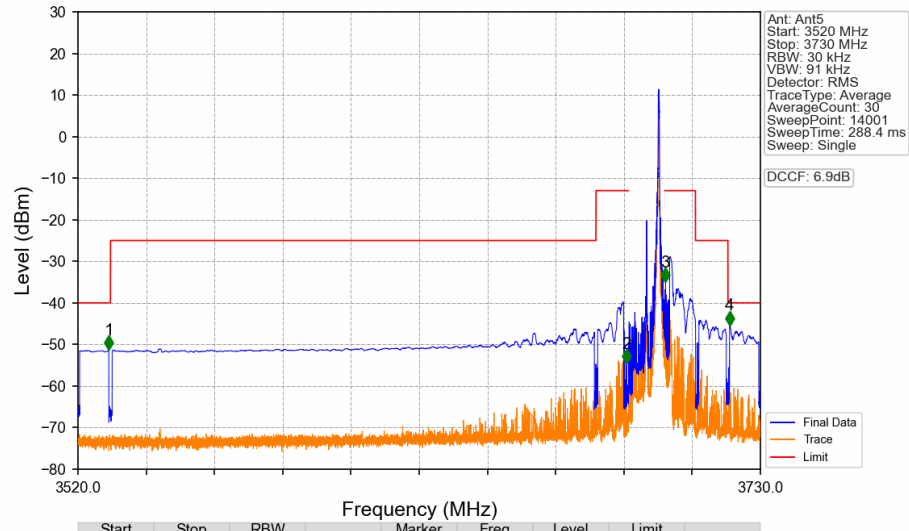
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Outer Full



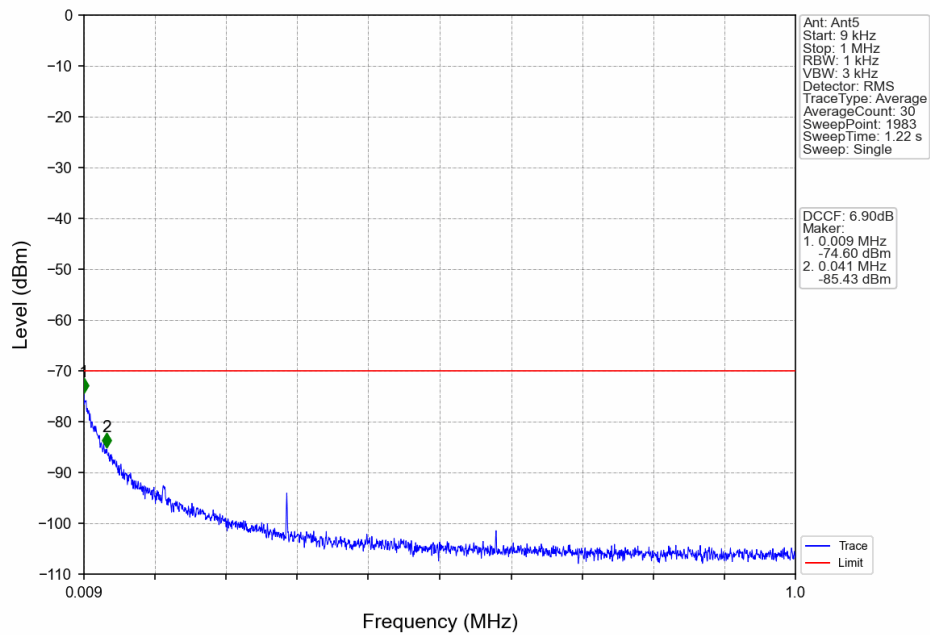
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Outer Full



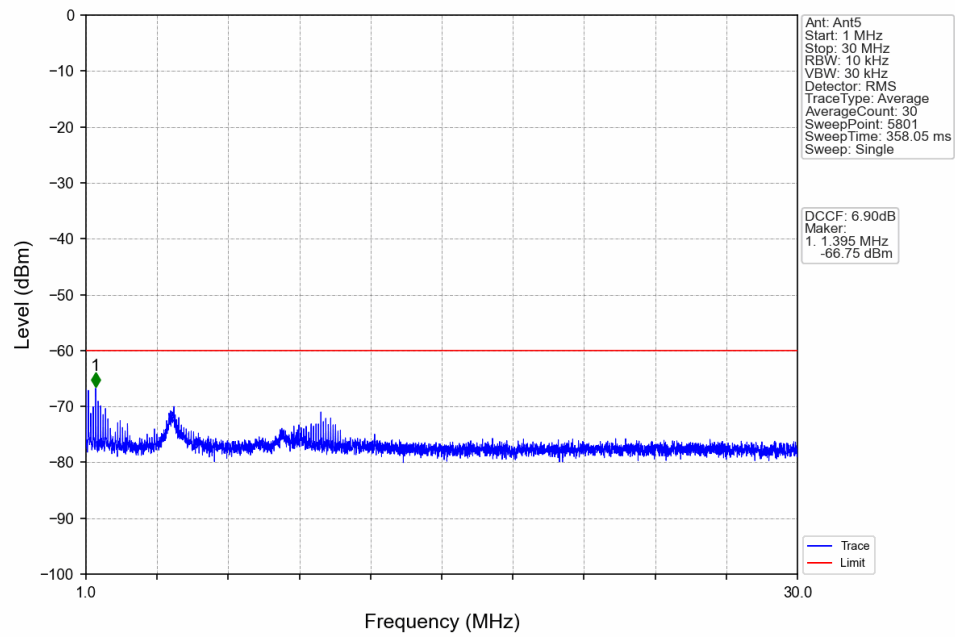
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Inner 1RB Right



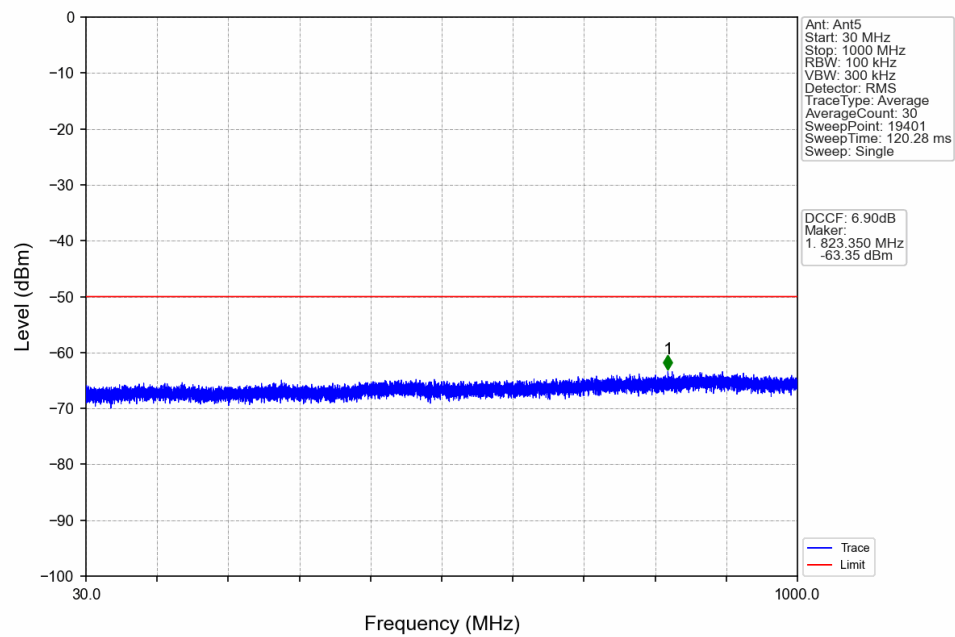
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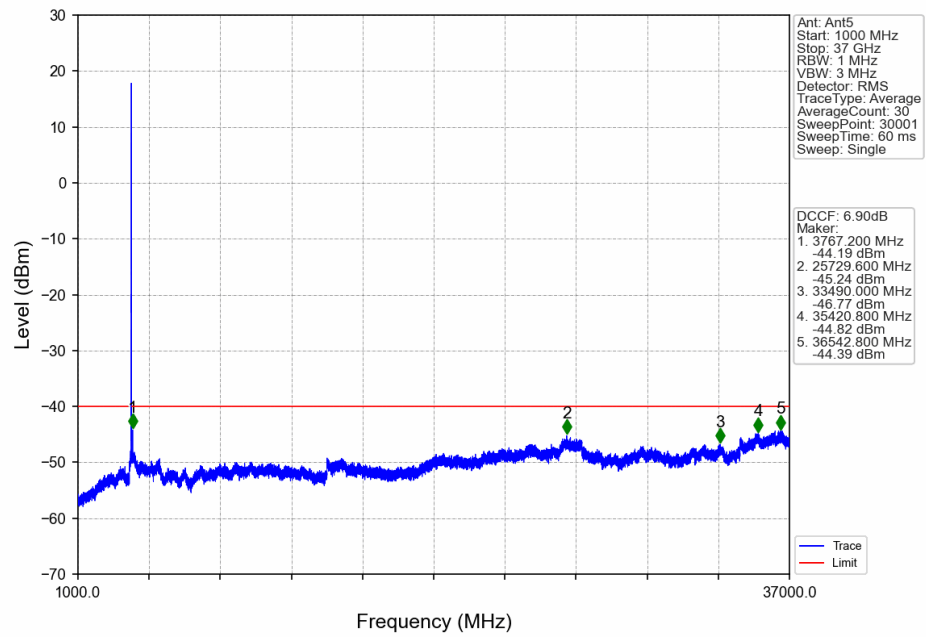
n48 30kHz SISO NTN 10MHz CP-OFDM QPSK 3694.98MHz Inner 1RB Right



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



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

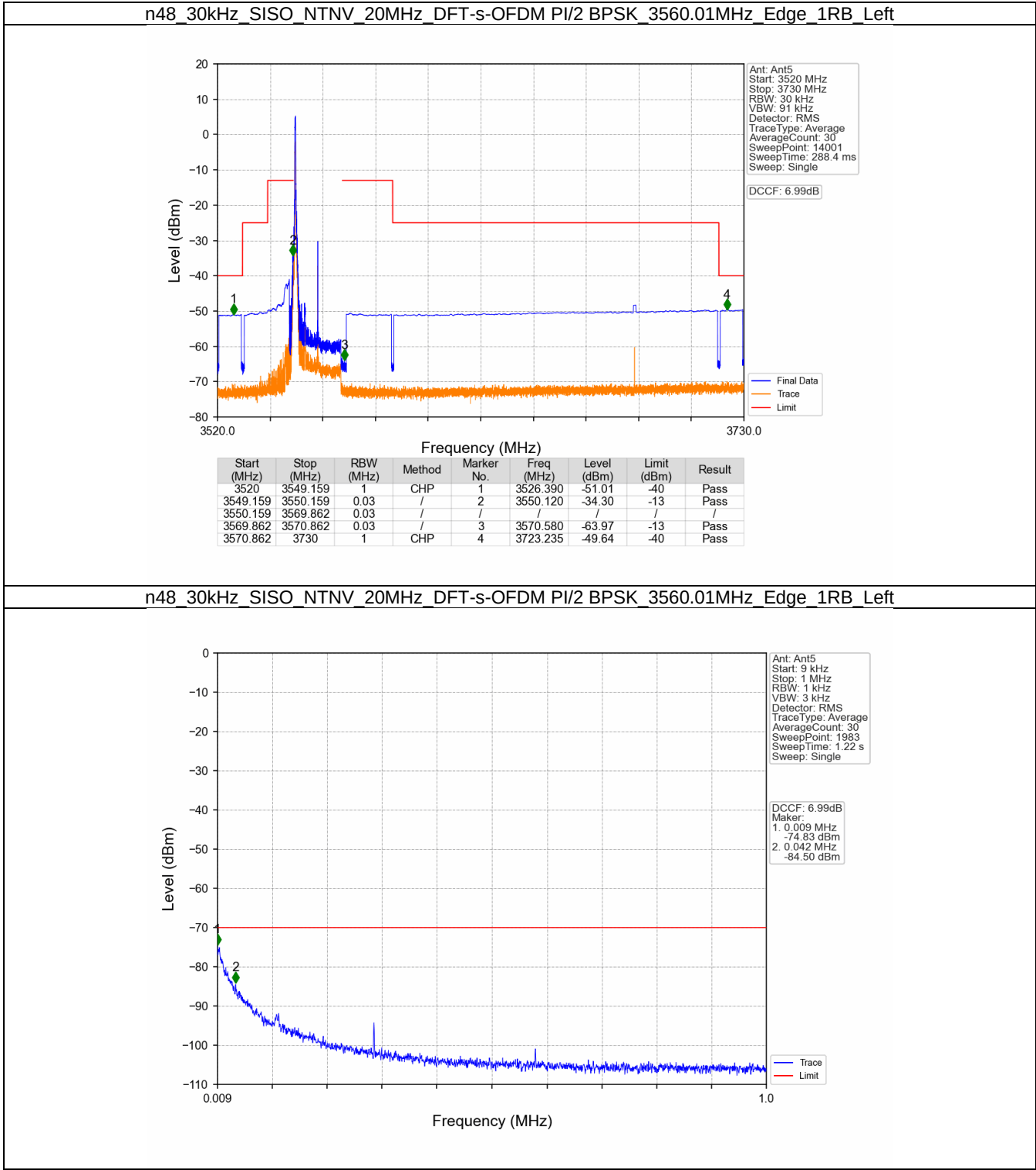


1.2 30k_SISO_20MHz_NTNV

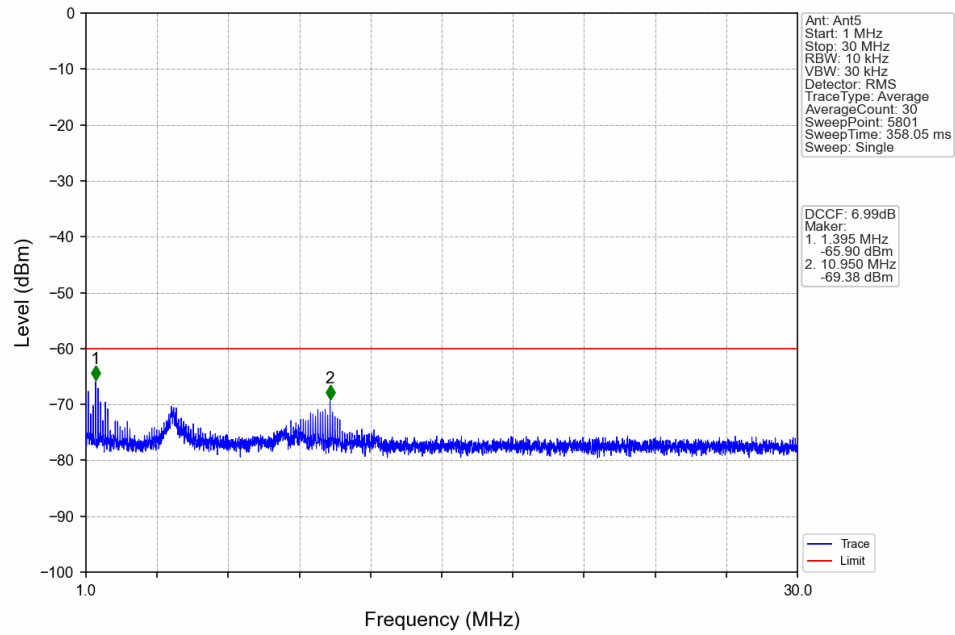
1.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NTNv								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant5	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	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	
		Edge_1RB_Right	Refer To Test Graph				Pass	
		3690	Outer_Full	Refer To Test Graph				Pass
	Inner_1RB_Right		Refer To Test Graph				Pass	
	DFT-s-OFDM QPSK		3560.01	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	
		Edge_1RB_Right	Refer To Test Graph				Pass	
		3690	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			
		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	
		Edge_1RB_Right	Refer To Test Graph				Pass	
		3690	Outer_Full	Refer To Test Graph				Pass
	Inner_1RB_Right		Refer To Test Graph				Pass	

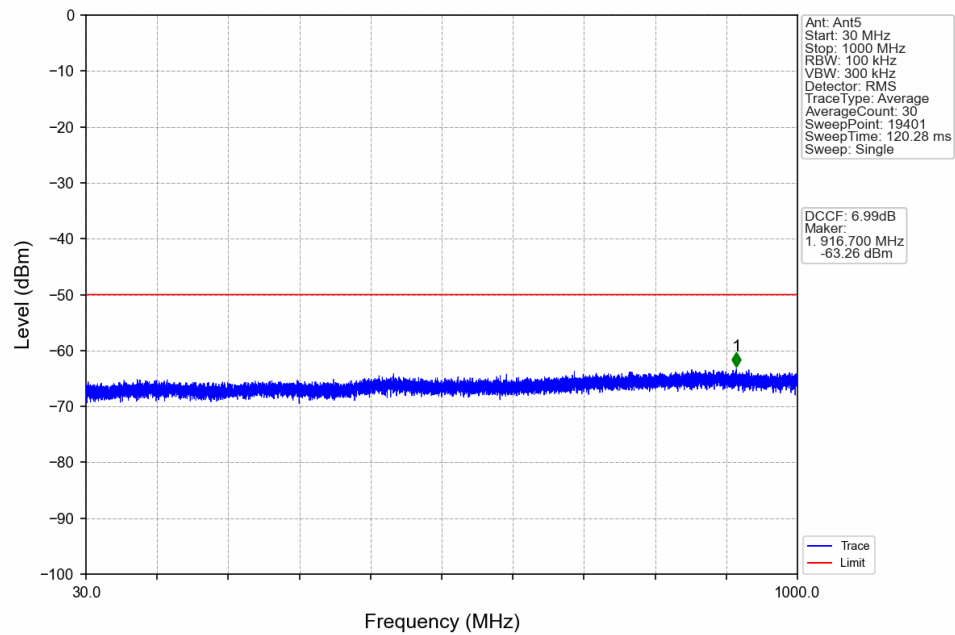
1.2.2 Test Graph



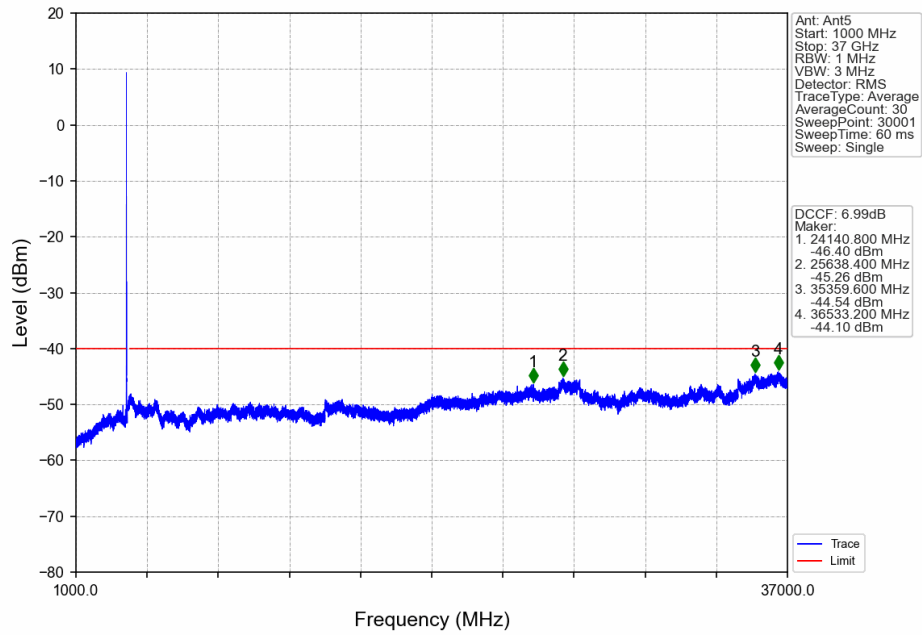
n48 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3560.01MHz Edge 1RB Left



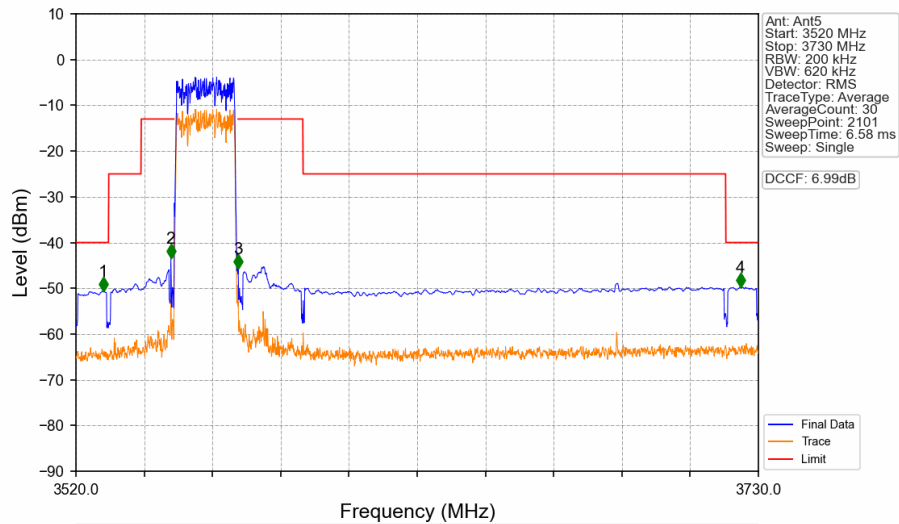
n48 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3560.01MHz Edge 1RB Left



n48 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3560.01MHz Edge 1RB Left

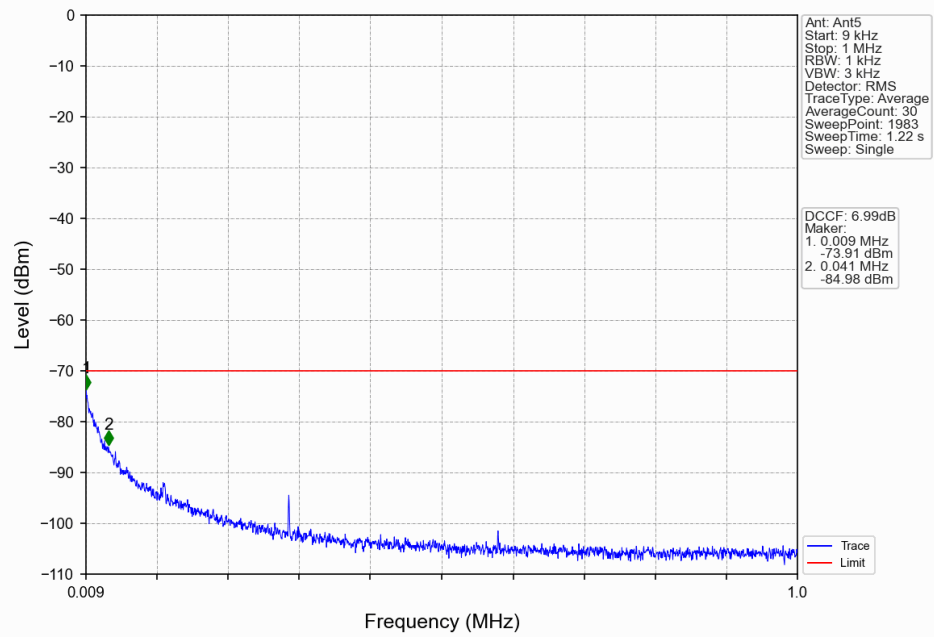


n48 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3560.01MHz Outer Full

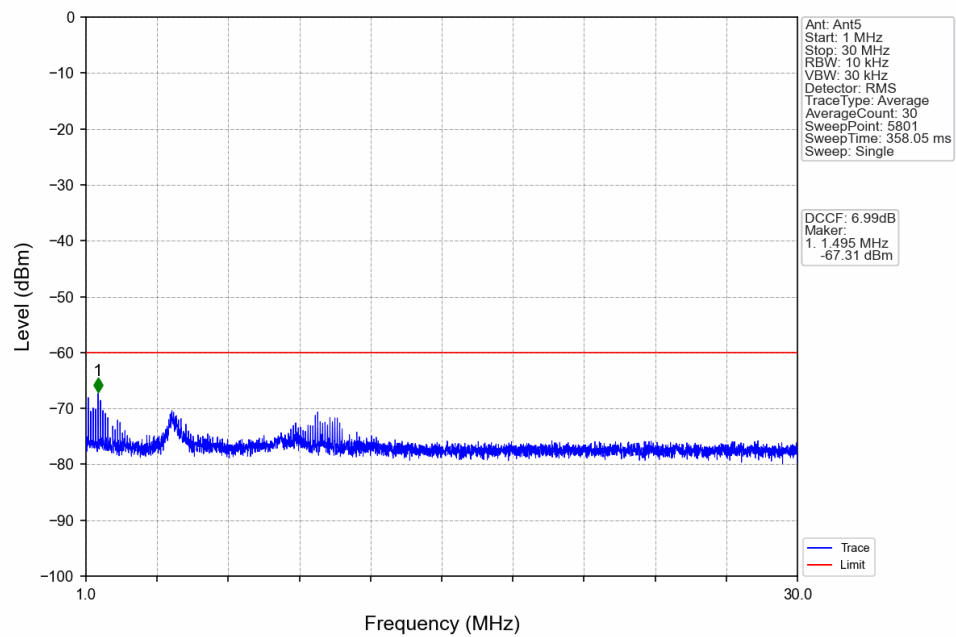


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549.159	1	CHP	1	3528.400	-50.64	-40	Pass
3549.159	3550.159	0.2	/	2	3549.200	-43.42	-13	Pass
3550.159	3569.862	0.2	/	/	/	/	/	/
3569.862	3570.862	0.2	/	3	3569.900	-45.77	-13	Pass
3570.862	3730	1	CHP	4	3724.500	-49.77	-40	Pass

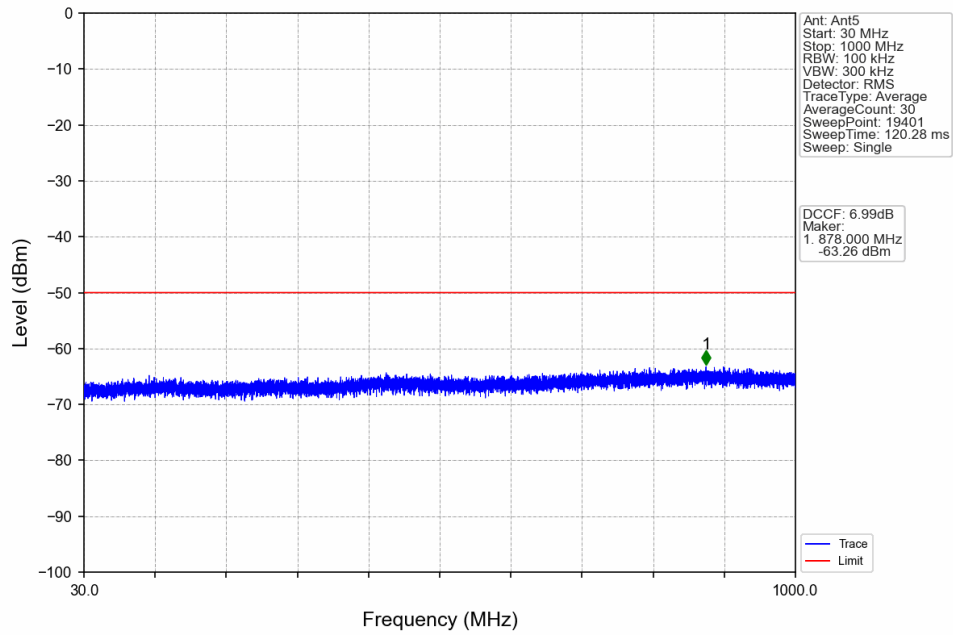
n48 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3560.01MHz Outer Full



n48 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3560.01MHz Outer Full



n48 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3560.01MHz Outer Full



n48 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3560.01MHz Outer Full

