

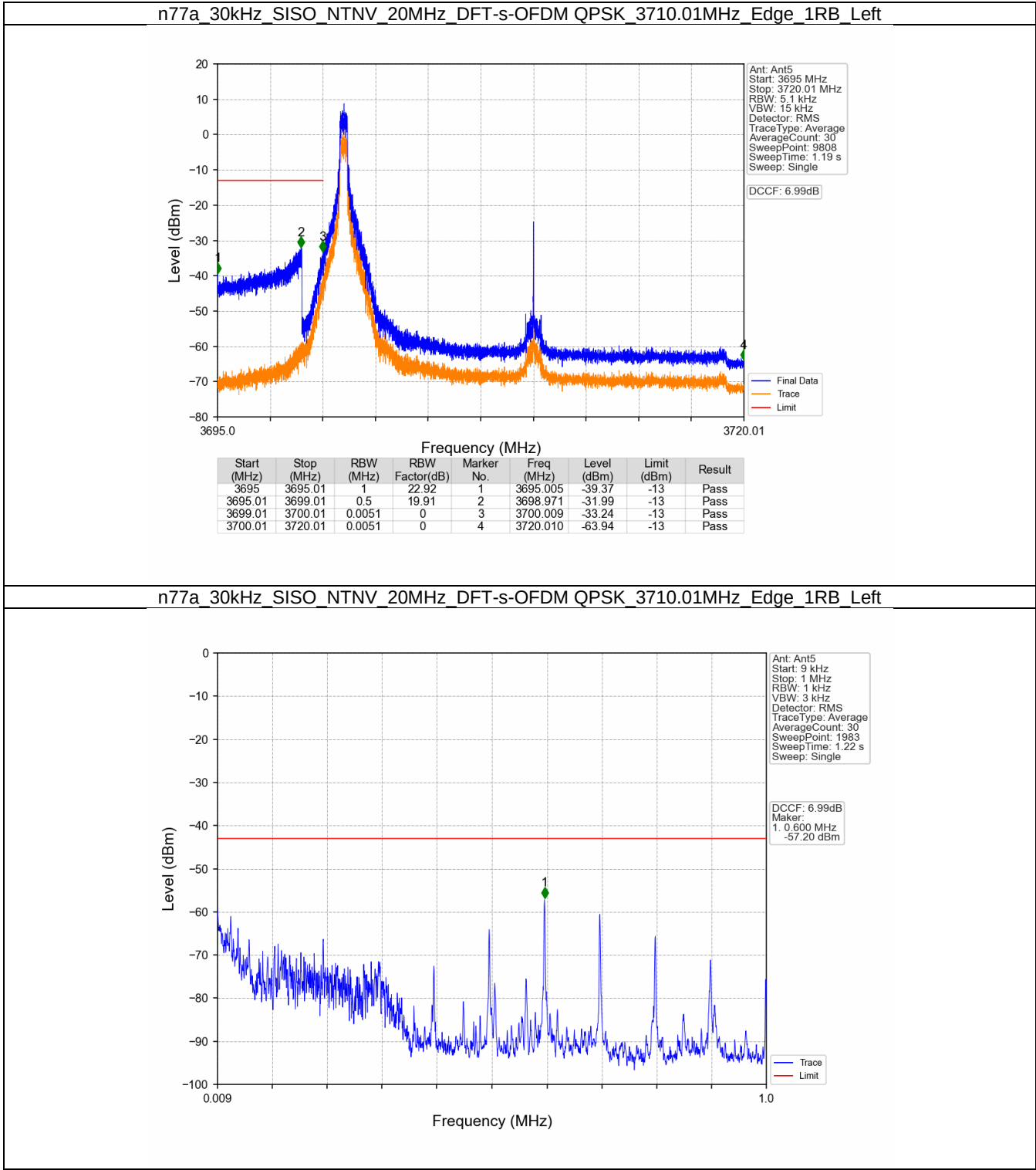
1. Spurious Emission

1.1 30k_SISO_20MHz_NTNV

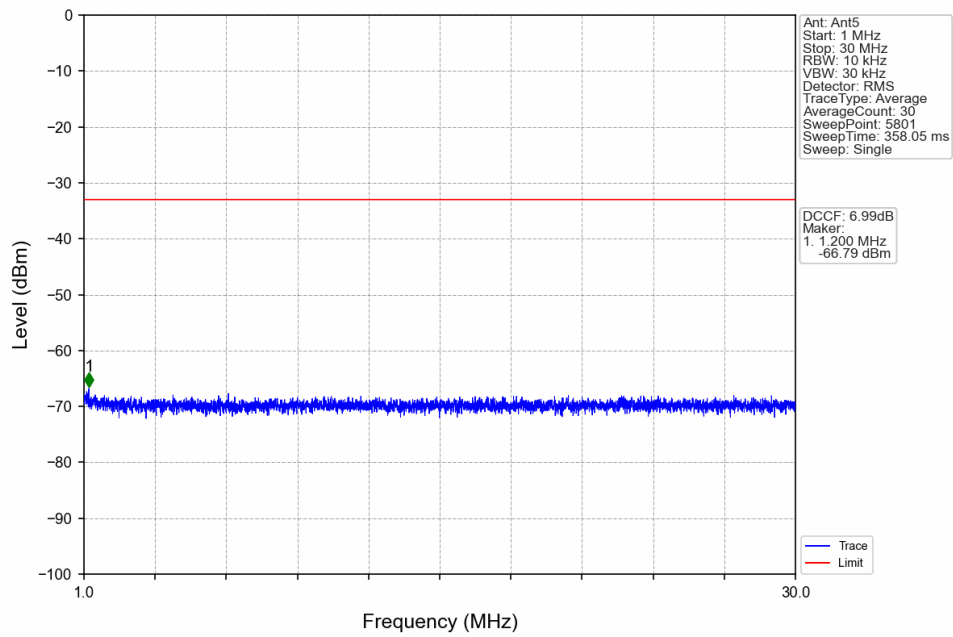
1.1.1 Test Result

5G NR n77a SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3710.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3840	Edge_1RB_Left	Refer To Test Graph				Pass
	3969.99	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	3710.01	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
	3840	Edge_1RB_Left	Refer To Test Graph				Pass
	3969.99	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass

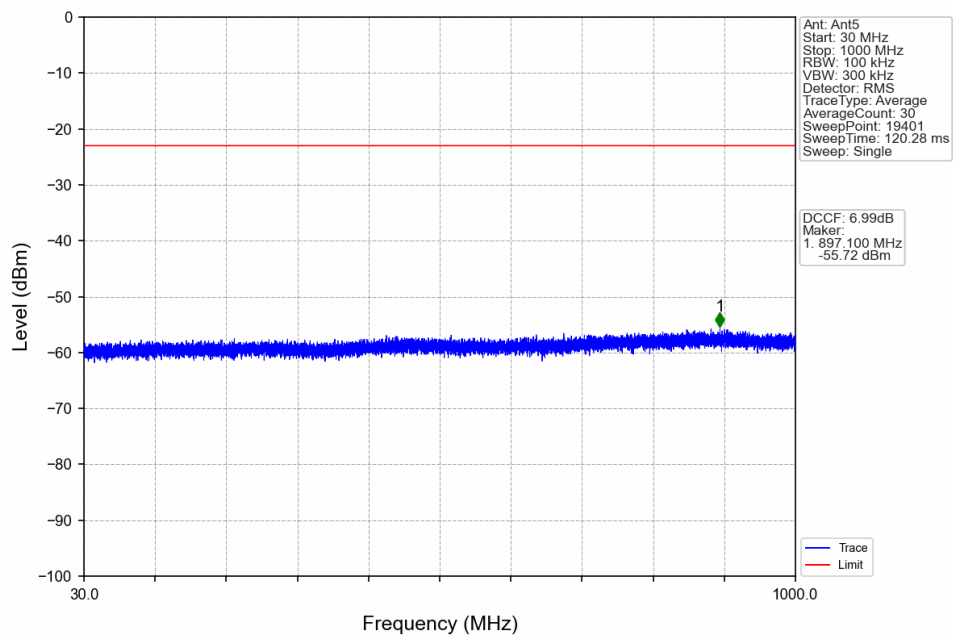
1.1.2 Test Graph



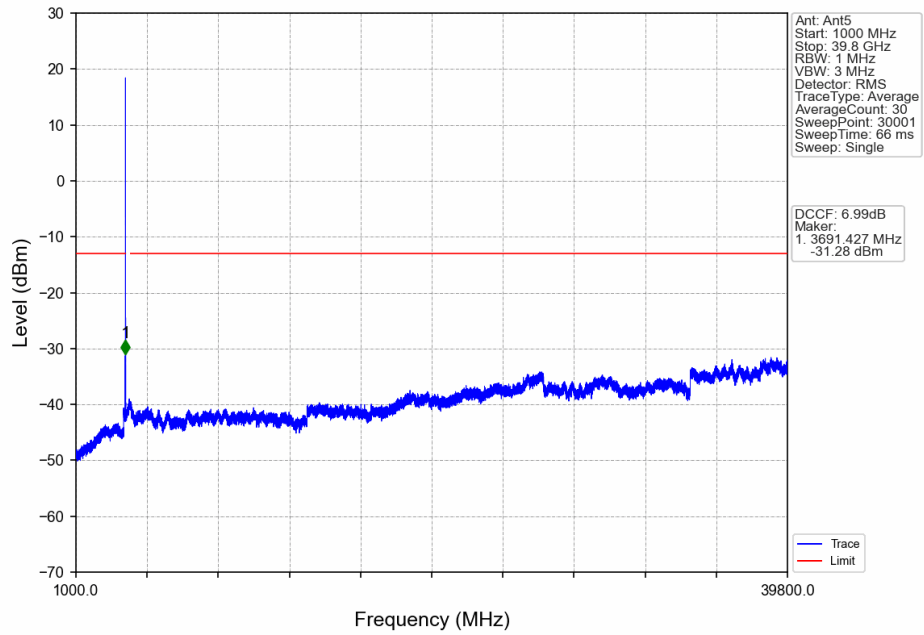
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3710.01MHz Edge 1RB Left



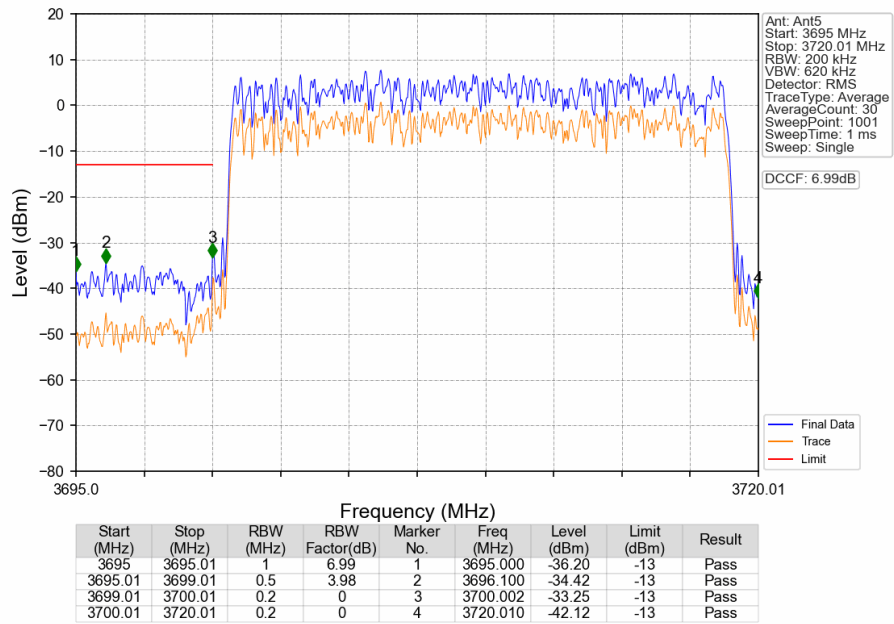
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3710.01MHz Edge 1RB Left



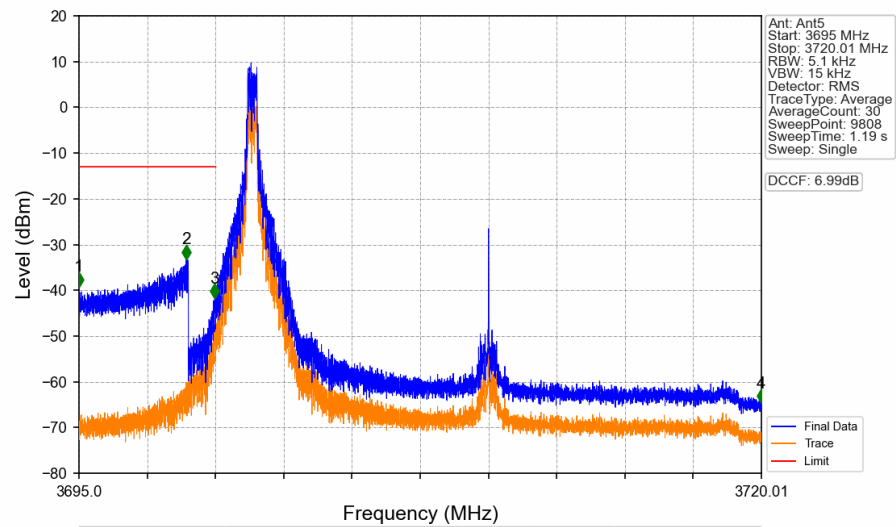
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3710.01MHz Edge 1RB Left



n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3710.01MHz Outer Full

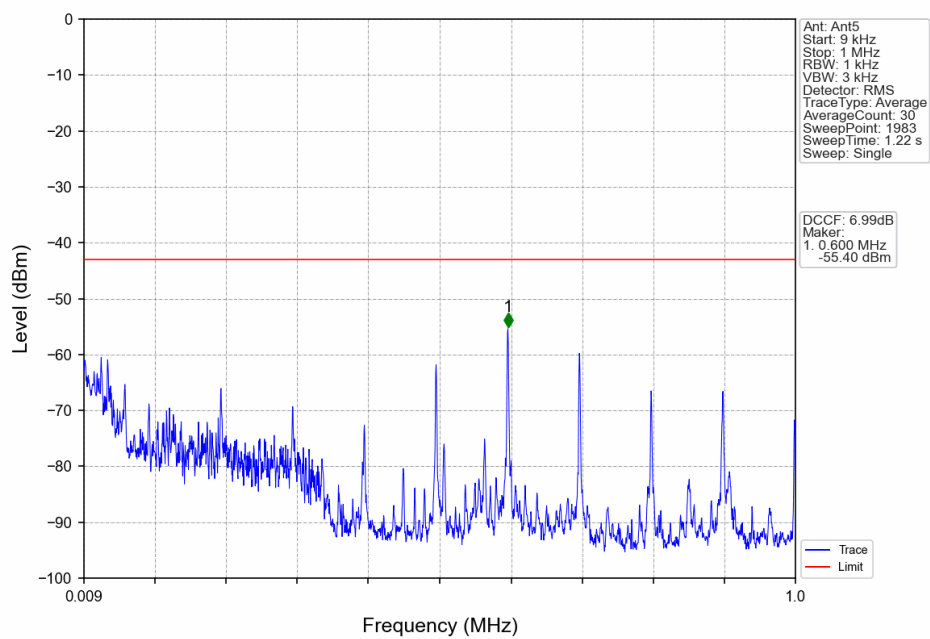


n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3710.01MHz Inner 1RB Left

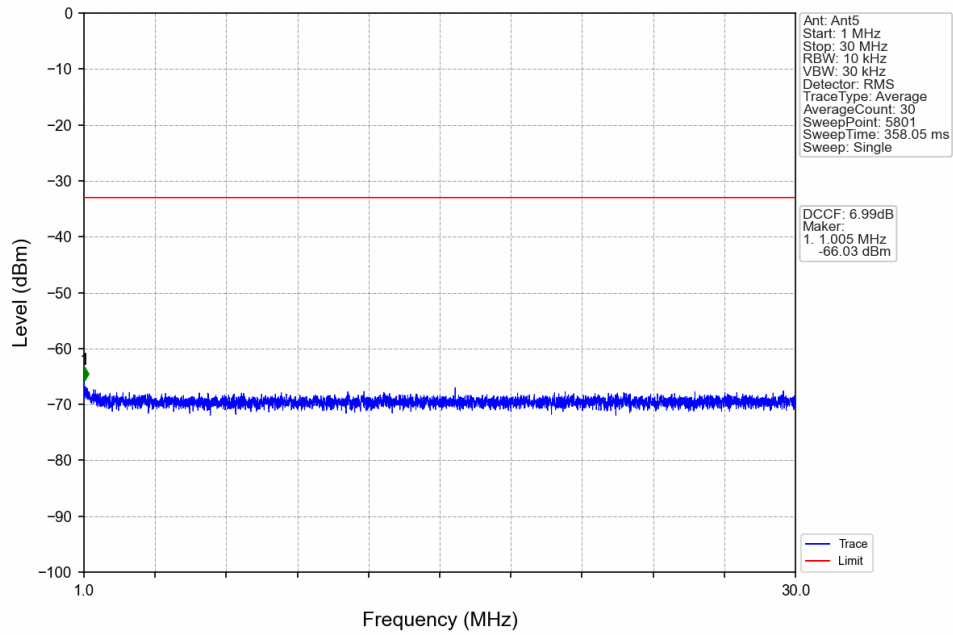


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	22.92	1	3695.000	-39.19	-13	Pass
3695.01	3699.01	0.5	19.91	2	3698.930	-33.20	-13	Pass
3699.01	3700.01	0.0051	0	3	3699.975	-41.73	-13	Pass
3700.01	3720.01	0.0051	0	4	3720.010	-64.61	-13	Pass

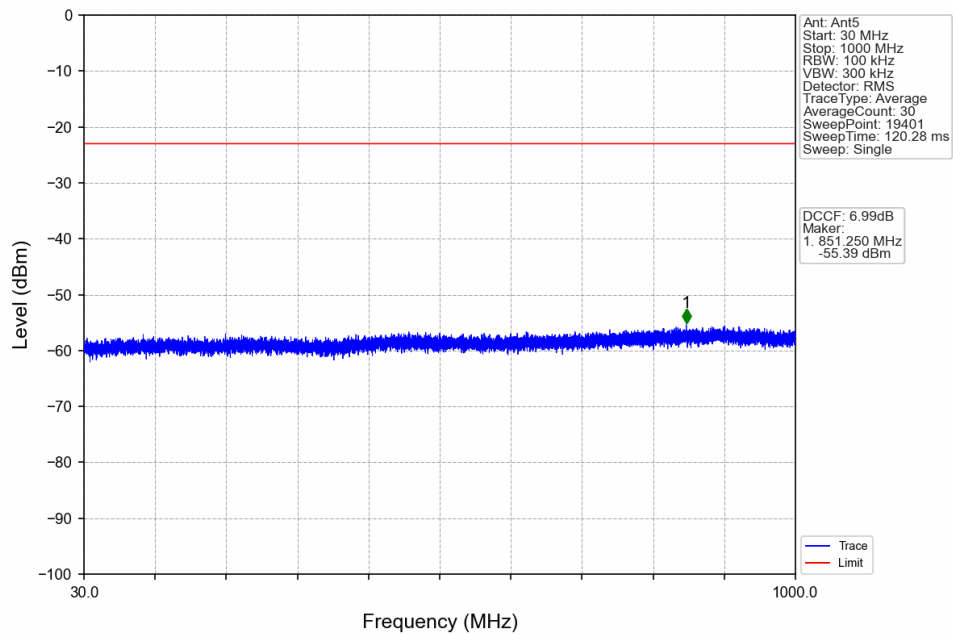
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left



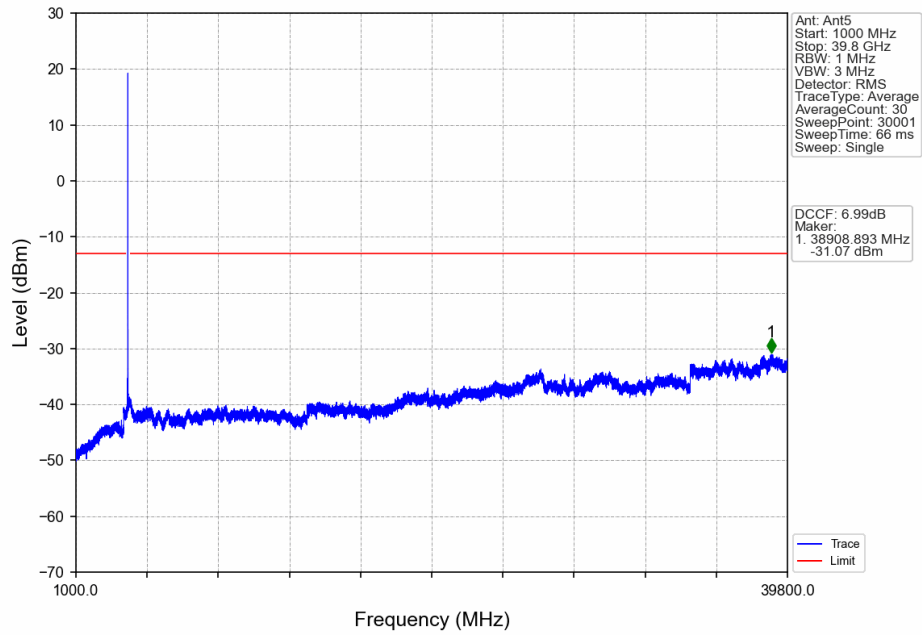
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left



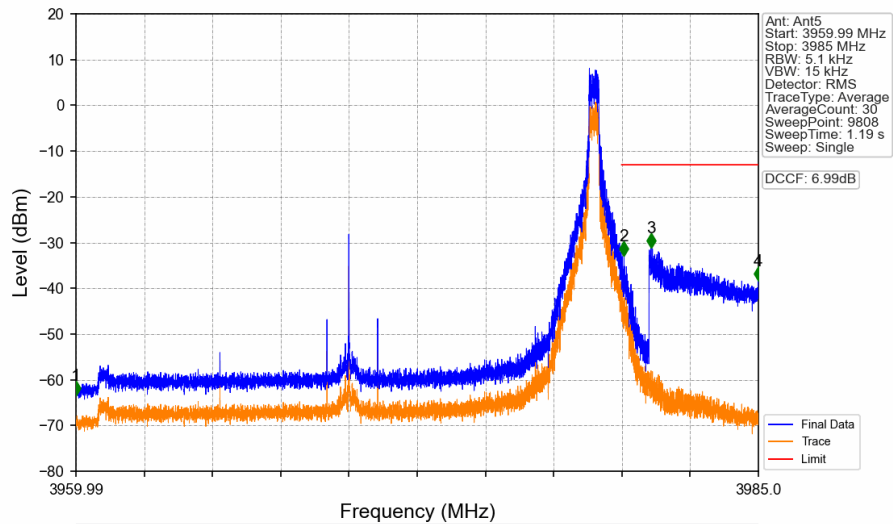
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left



n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left

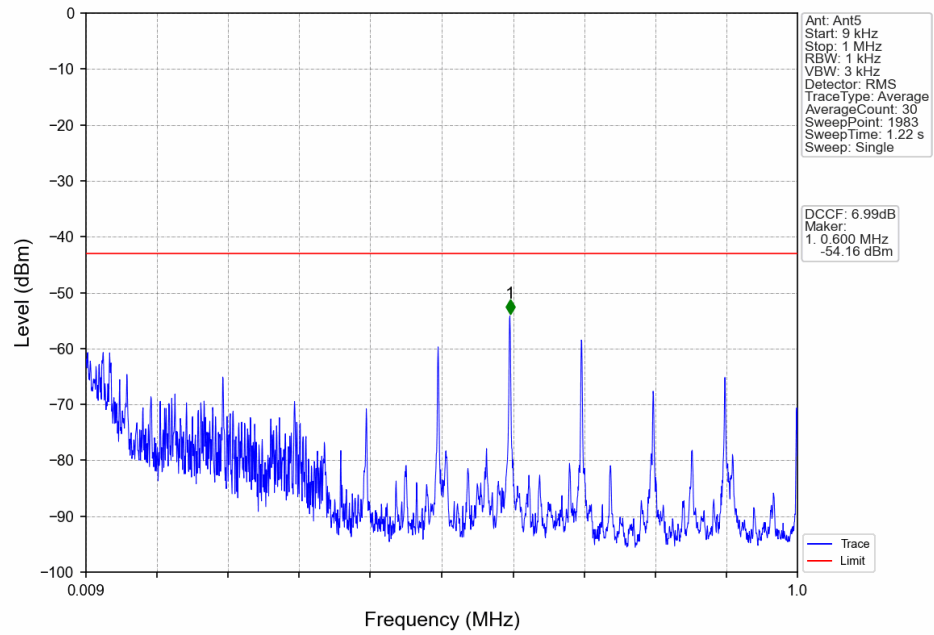


n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3969.99MHz Edge 1RB Right

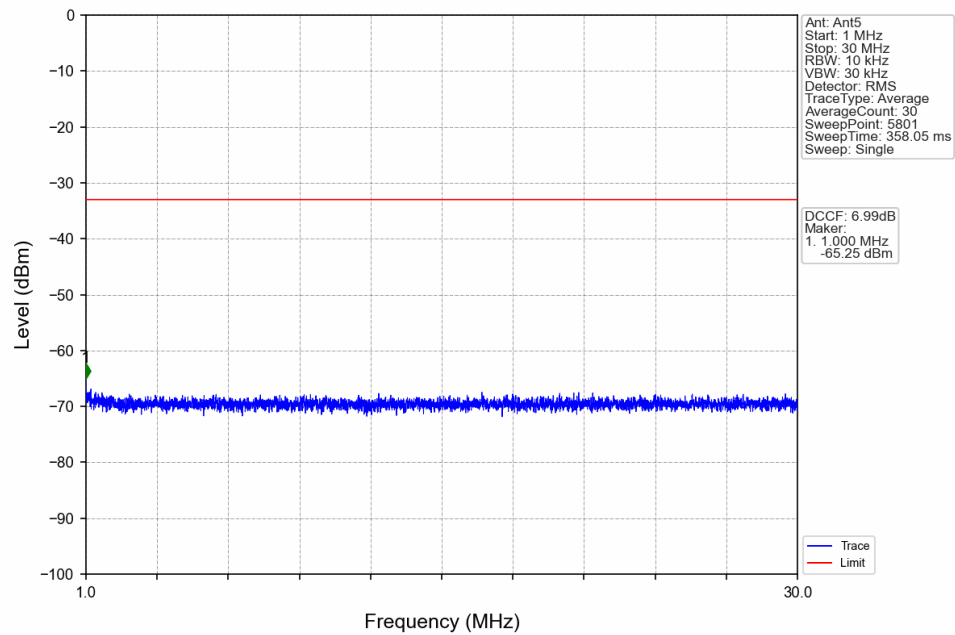


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.0051	0	1	3959.990	-63.43	-13	Pass
3979.99	3979.99	0.0051	0	/	/	/	/	/
3979.99	3980.99	0.0051	0	2	3980.076	-32.95	-13	Pass
3980.99	3984.99	0.5	19.91	3	3981.065	-31.15	-13	Pass
3984.99	3985	1	22.92	4	3984.995	-38.39	-13	Pass

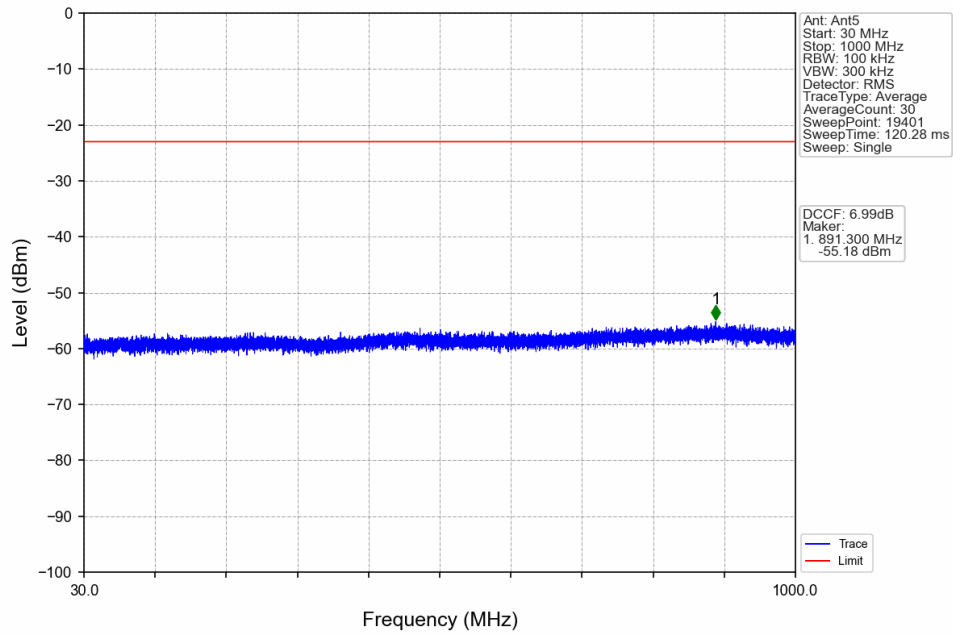
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3969.99MHz Edge 1RB Right



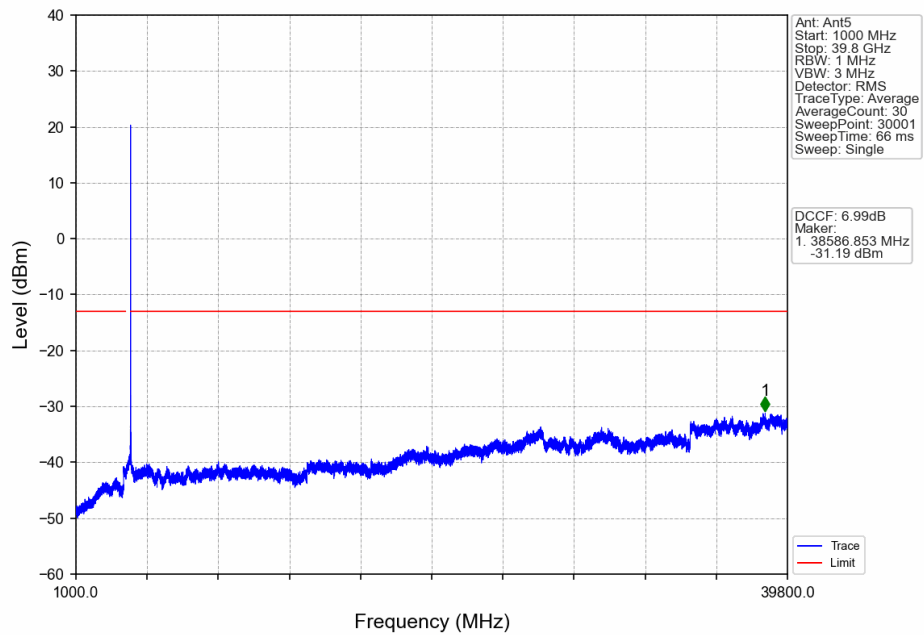
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3969.99MHz Edge 1RB Right



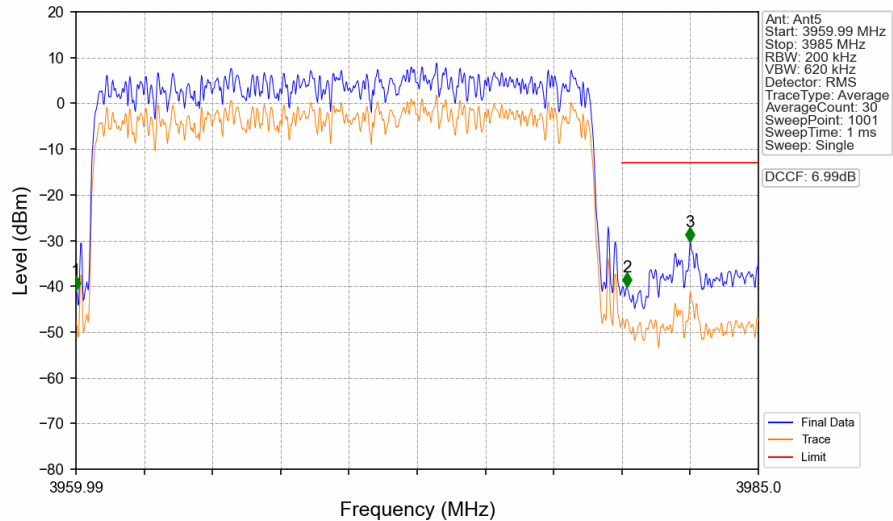
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3969.99MHz Edge 1RB Right



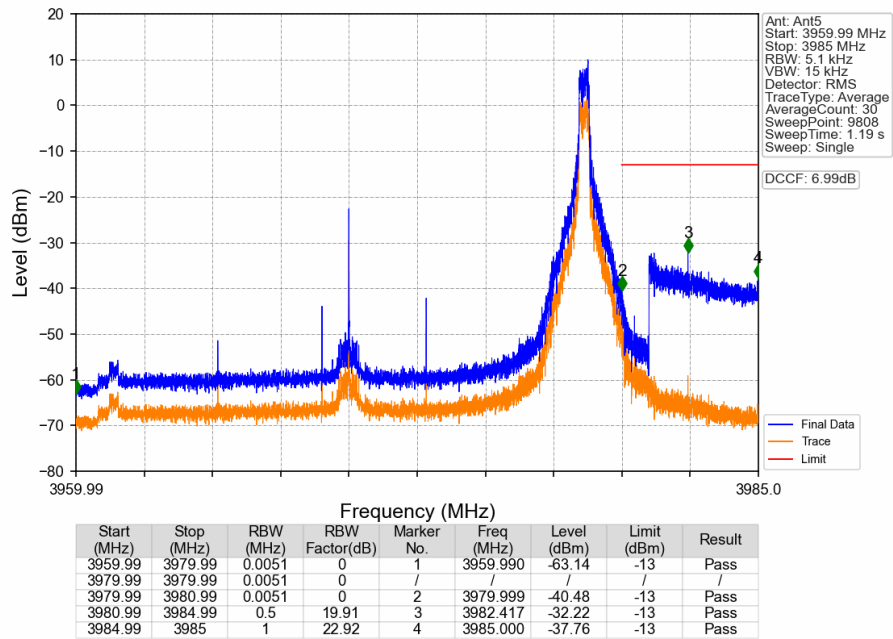
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3969.99MHz Edge 1RB Right



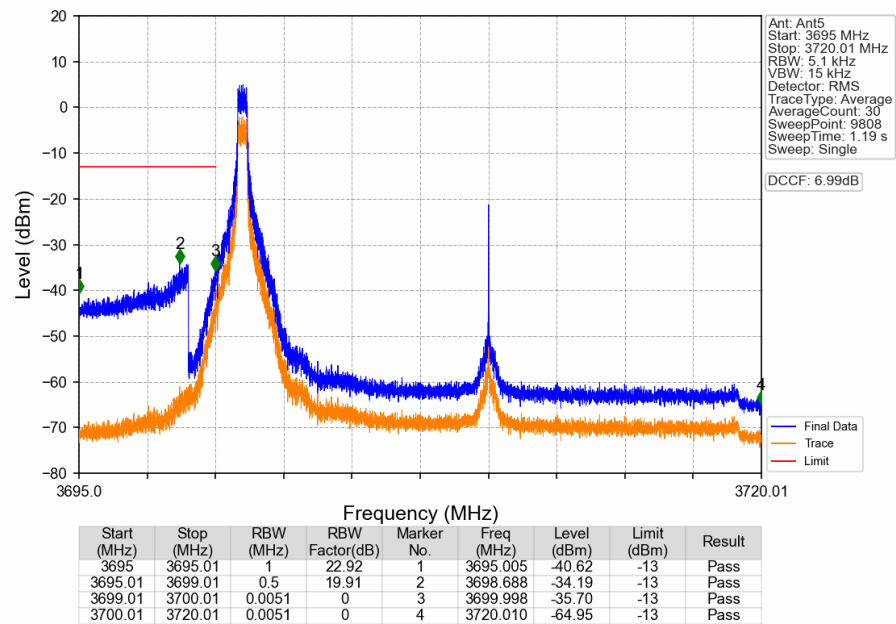
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3969.99MHz Outer Full



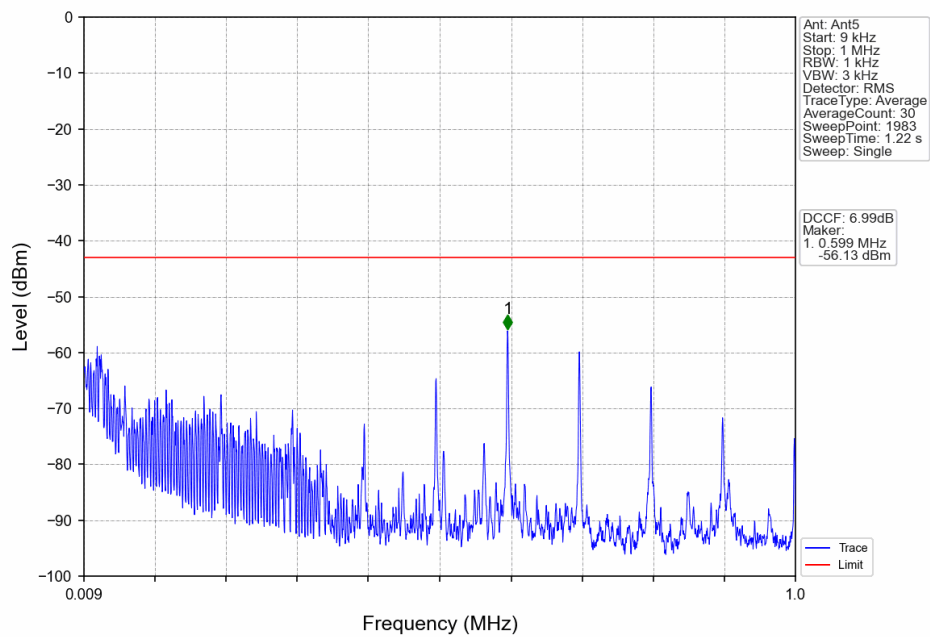
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3969.99MHz Inner 1RB Right



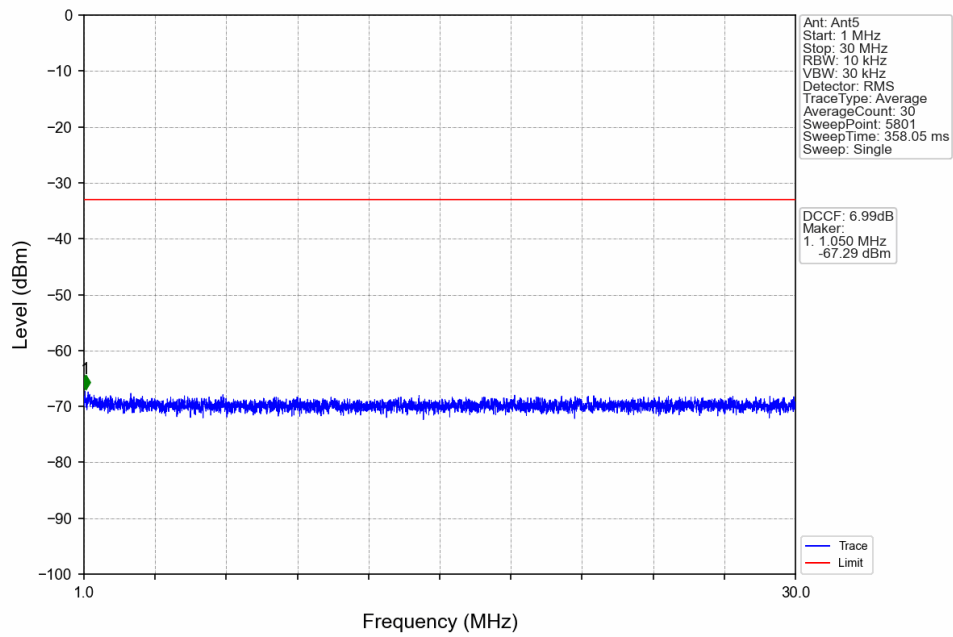
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3710.01MHz Edge 1RB Left



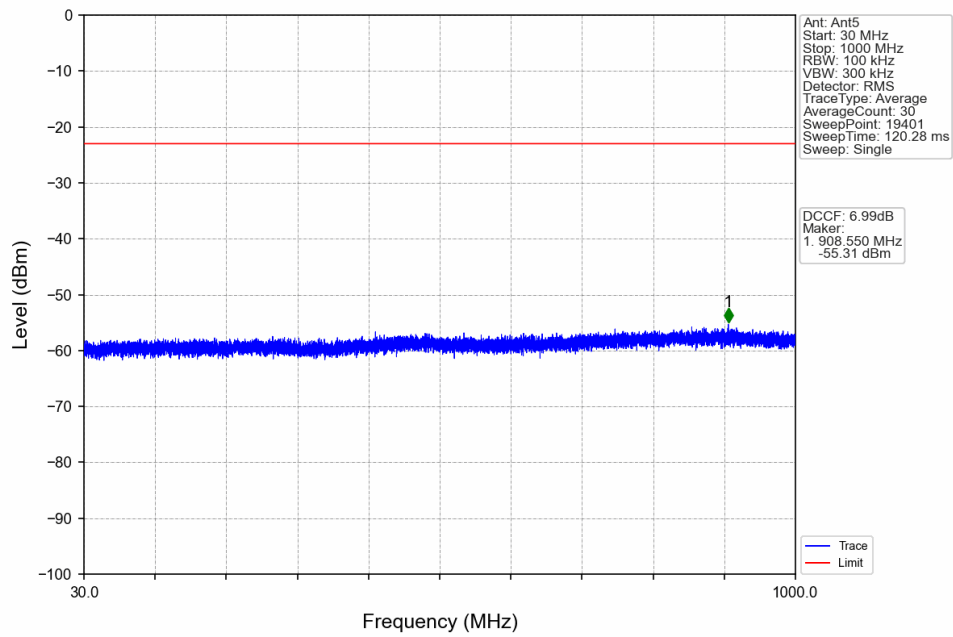
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3710.01MHz Edge 1RB Left



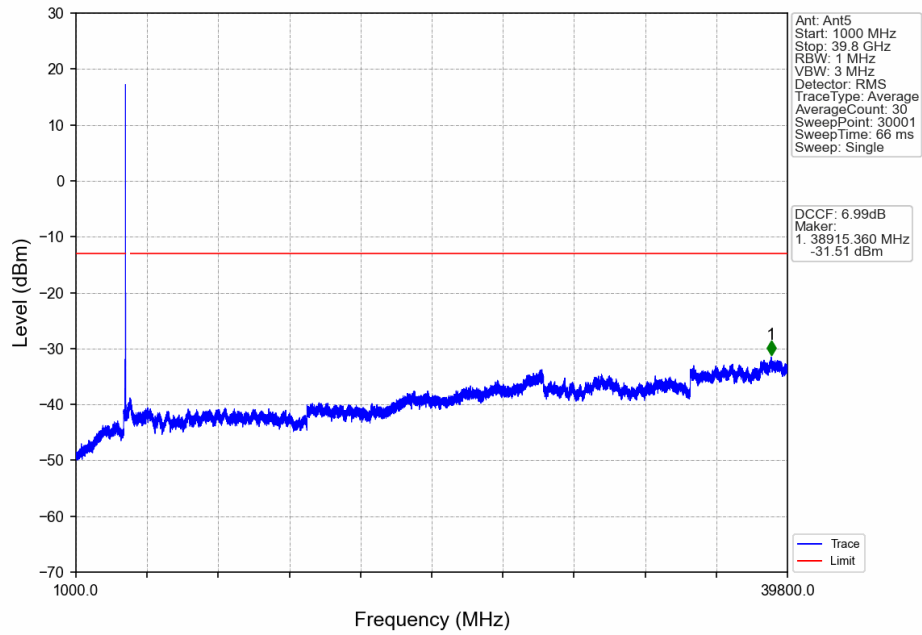
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3710.01MHz Edge 1RB Left



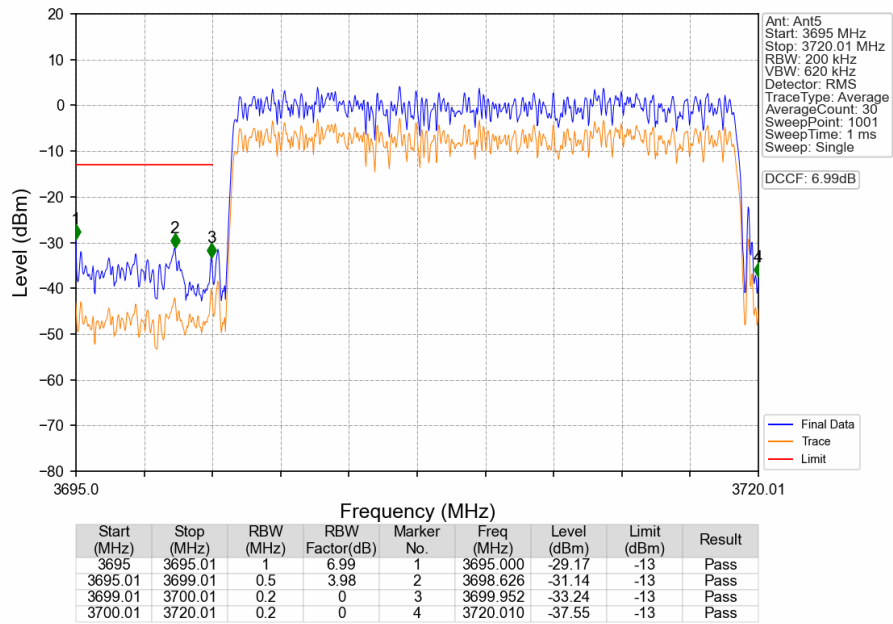
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3710.01MHz Edge 1RB Left



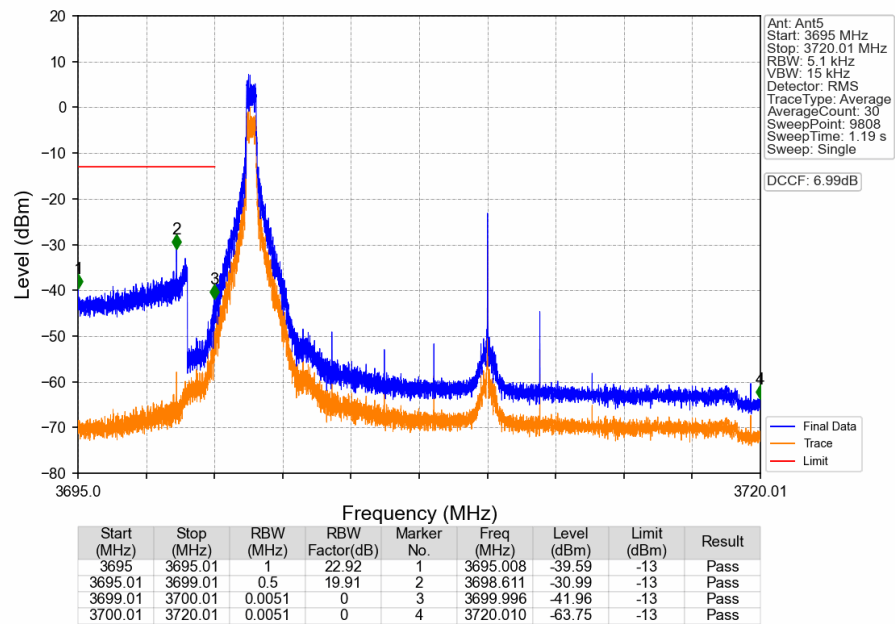
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3710.01MHz Edge 1RB Left



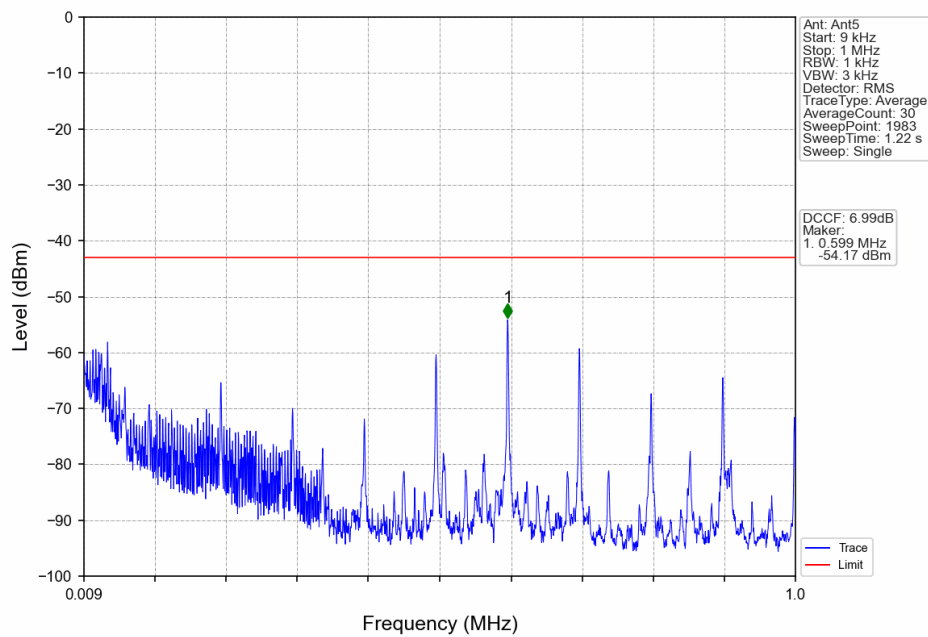
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3710.01MHz Outer Full



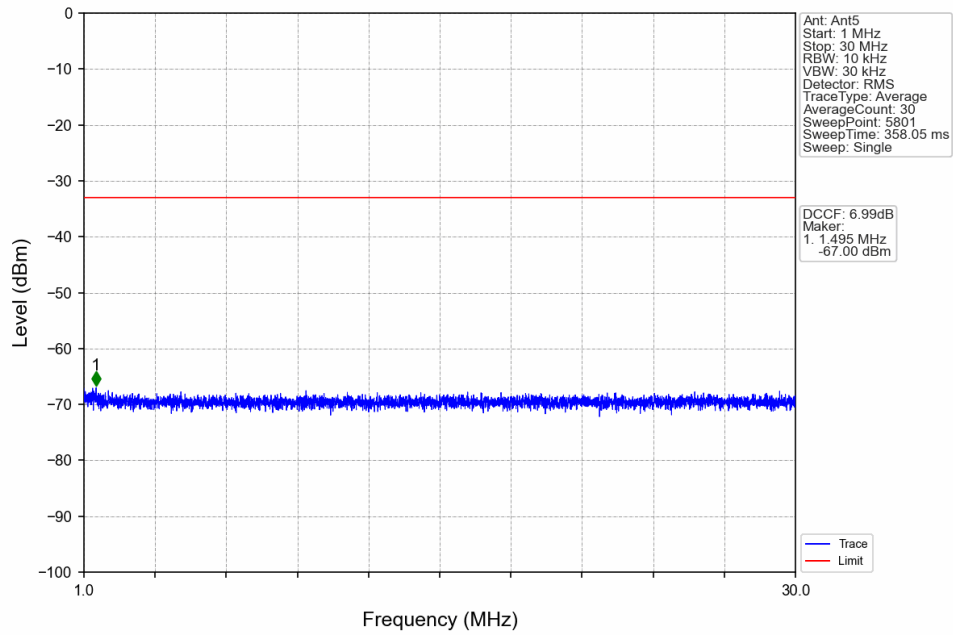
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3710.01MHz Inner 1RB Left



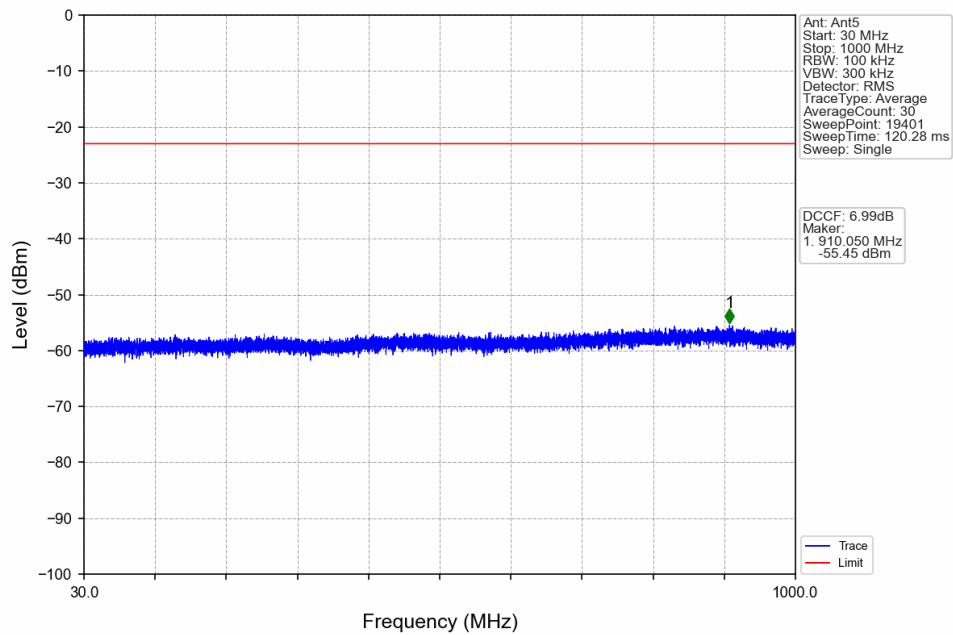
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



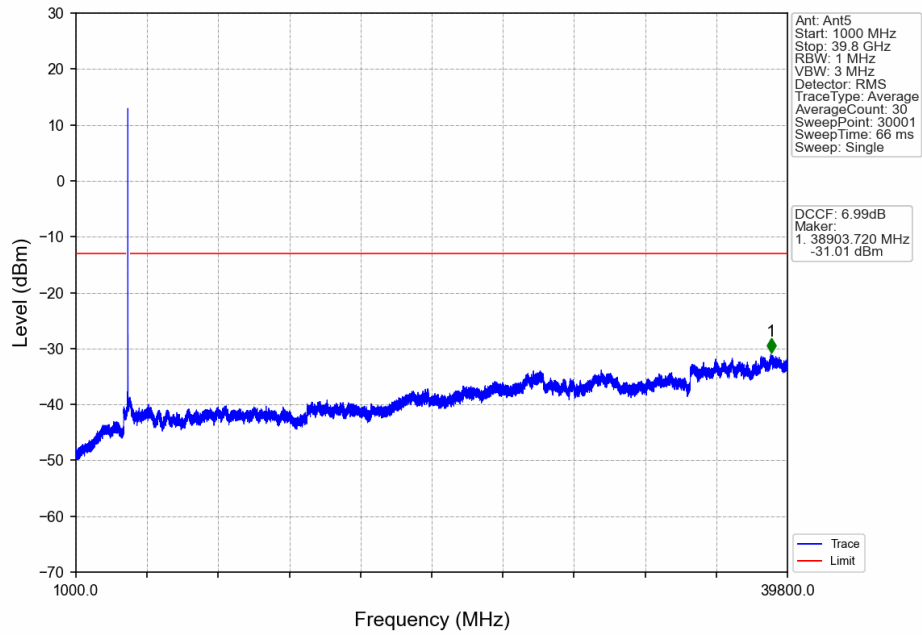
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



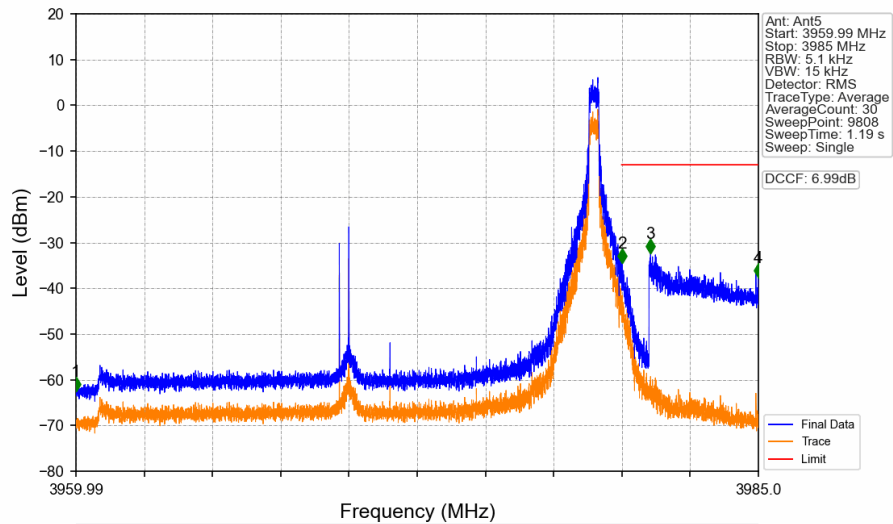
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



n77a 30kHz SISO NTV 20MHz CP-OFDM QPSK 3840MHz Edge 1RB Left

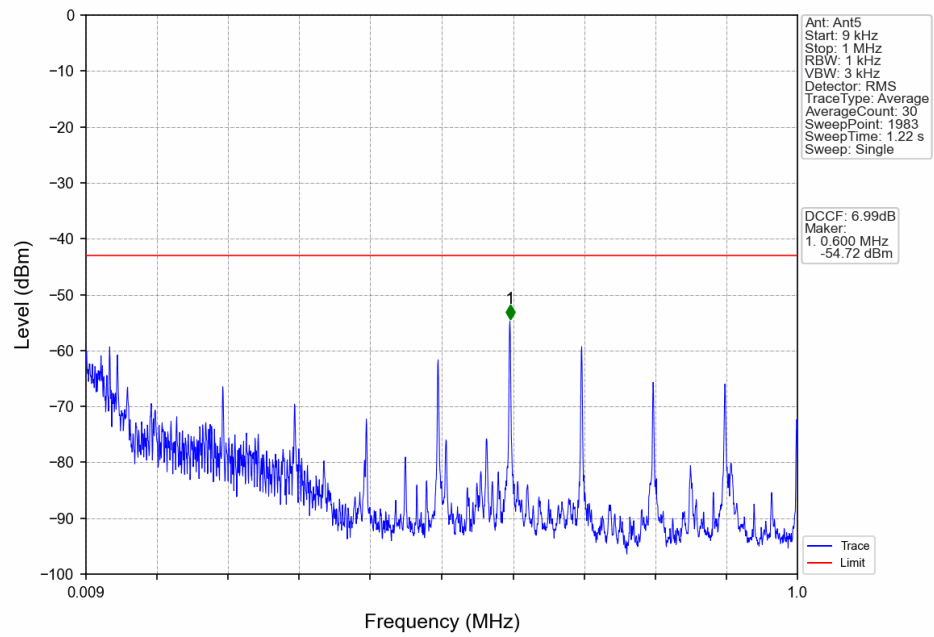


n77a 30kHz SISO NTV 20MHz CP-OFDM QPSK 3969.99MHz Edge 1RB Right

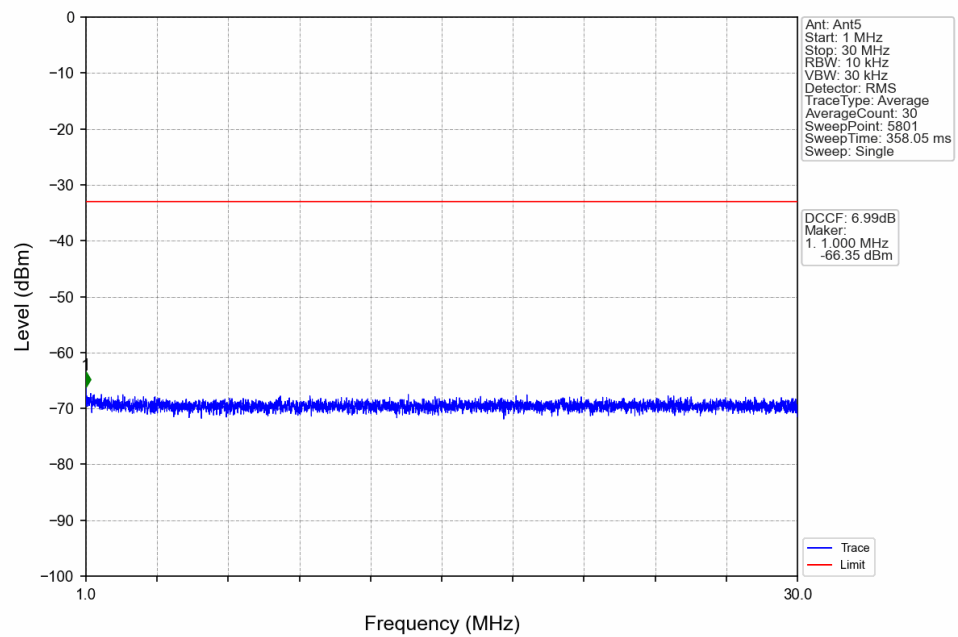


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.0051	0	1	3959.990	-62.60	-13	Pass
3979.99	3979.99	0.0051	0	/	/	/	/	/
3979.99	3980.99	0.0051	0	2	3980.014	-34.55	-13	Pass
3980.99	3984.99	0.5	19.91	3	3981.047	-32.39	-13	Pass
3984.99	3985	1	22.92	4	3984.997	-37.65	-13	Pass

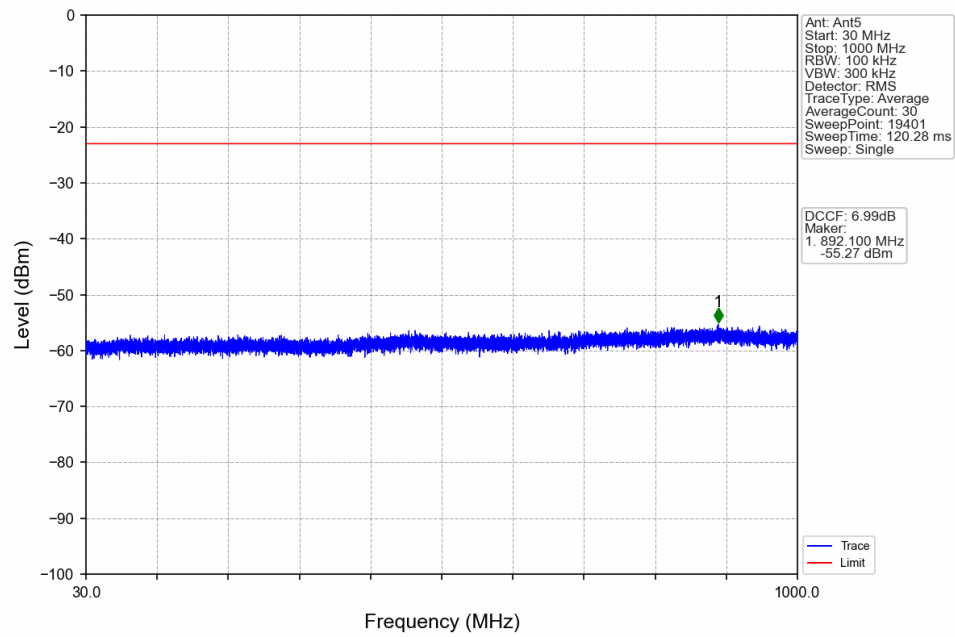
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3969.99MHz Edge 1RB Right



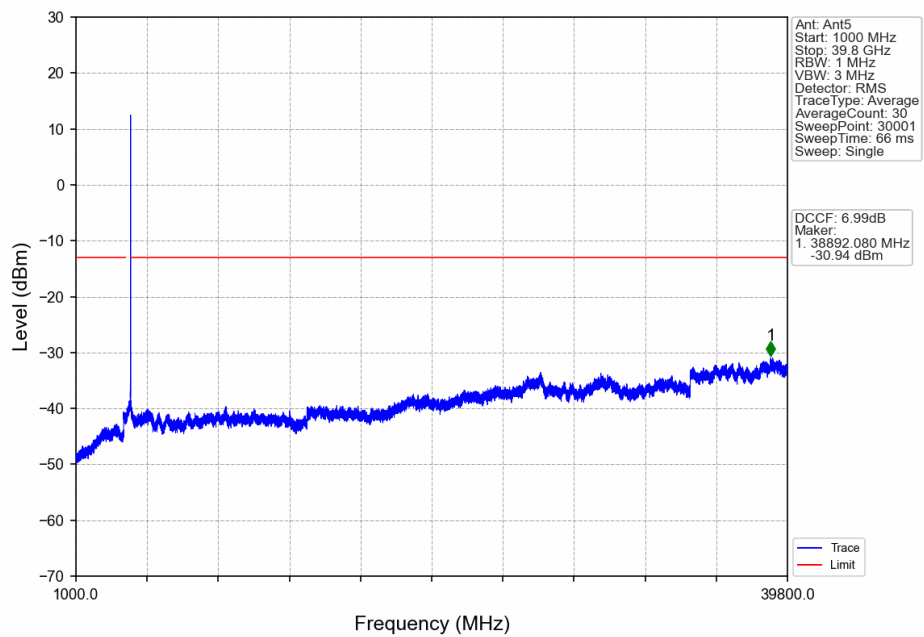
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3969.99MHz Edge 1RB Right



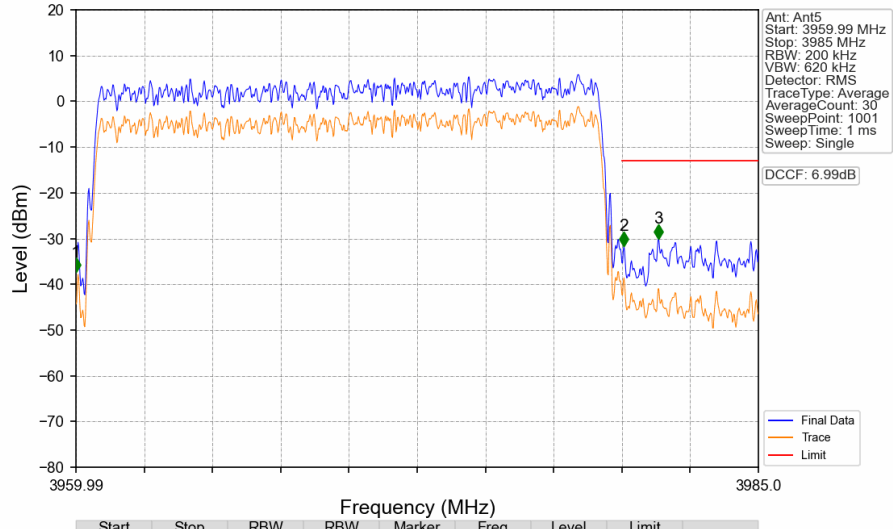
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3969.99MHz Edge 1RB Right



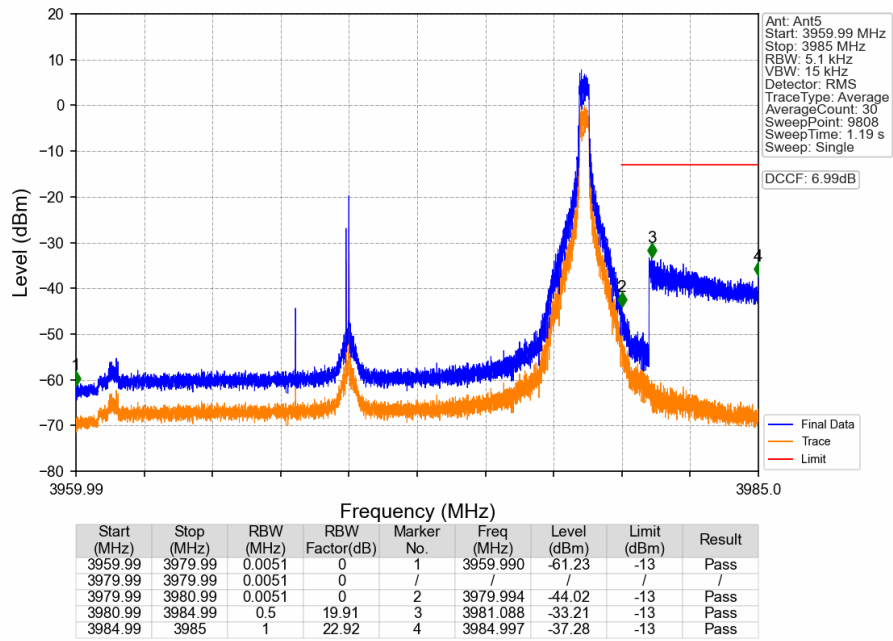
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3969.99MHz Edge 1RB Right



n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3969.99MHz Outer Full



n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3969.99MHz Inner 1RB Right

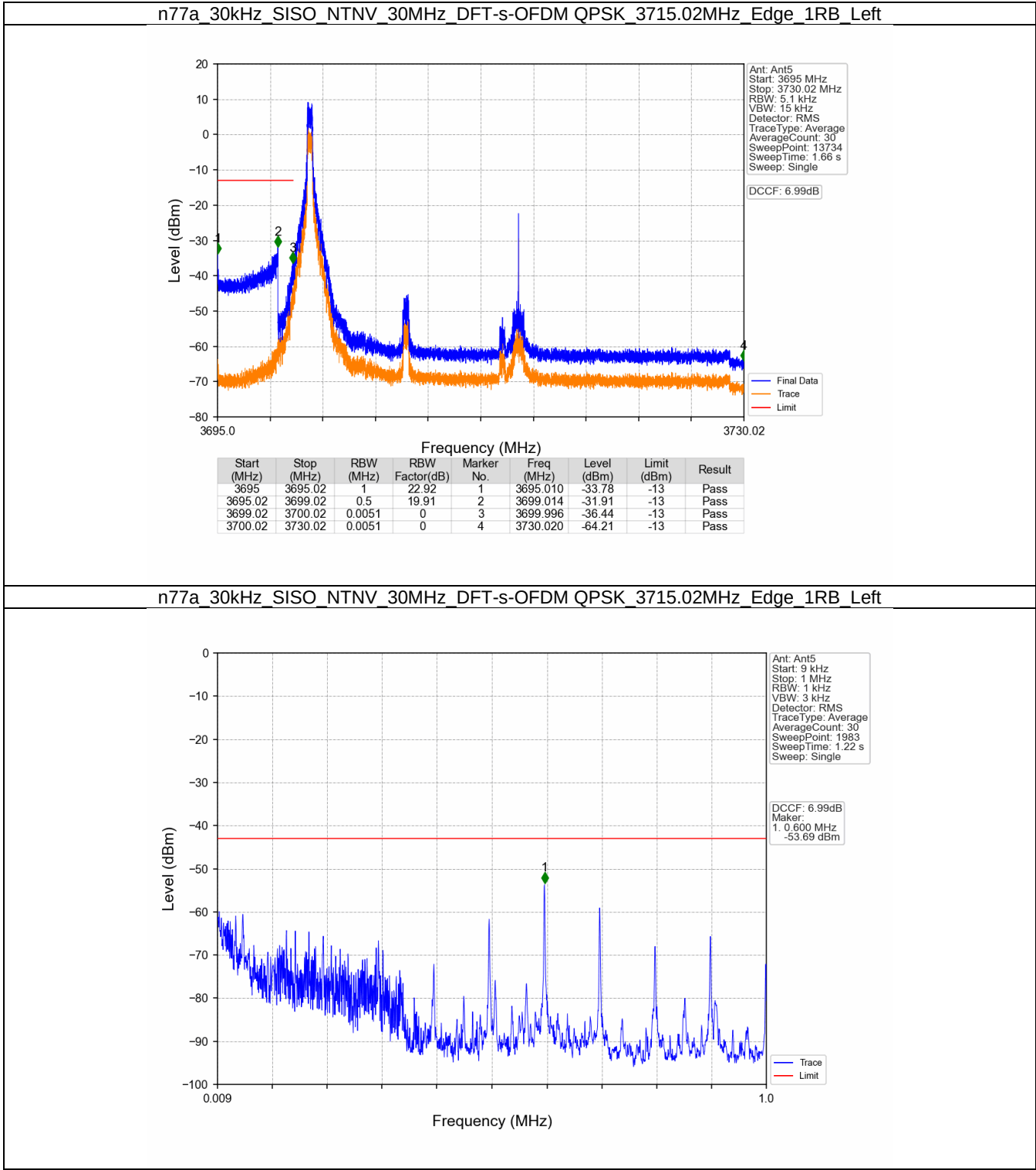


1.2 30k_SISO_30MHz_NTNV

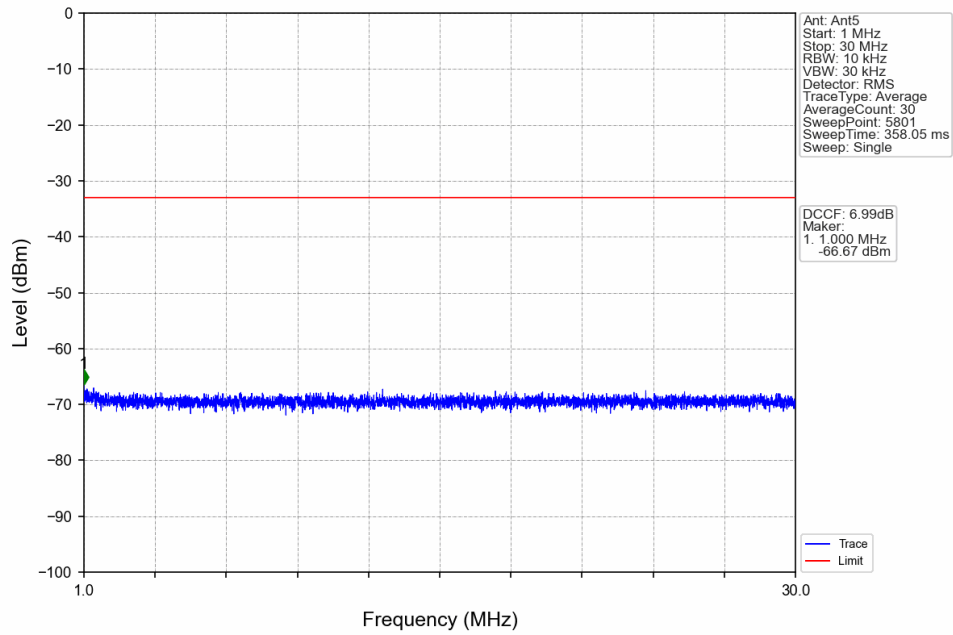
1.2.1 Test Result

5G NR n77a SCS=30kHz SISO 30MHz NTNv								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant5	Ant2	Sum	Limit		
DFT-s-OFDM QPSK	3715.02	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3840	Edge_1RB_Left	Refer To Test Graph				Pass	
		3964.98	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	3715.02	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3840	Edge_1RB_Left	Refer To Test Graph				Pass	
		3964.98	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass

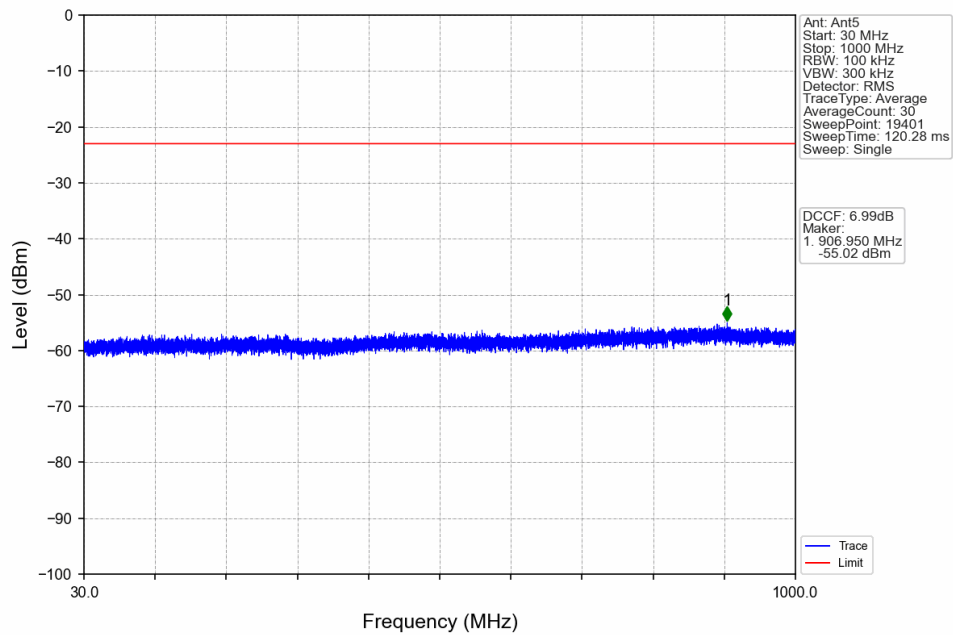
1.2.2 Test Graph



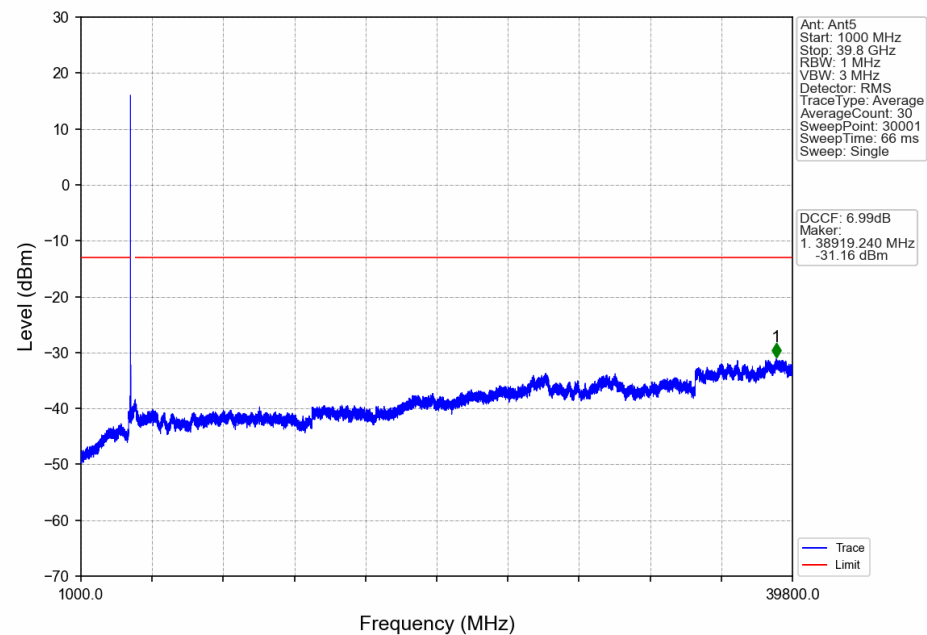
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3715.02MHz Edge 1RB Left



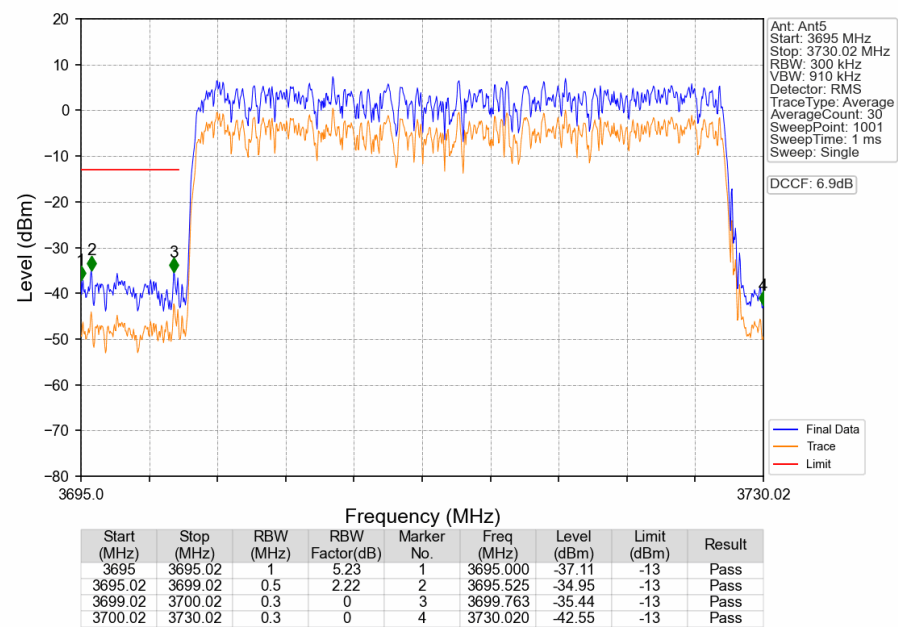
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3715.02MHz Edge 1RB Left



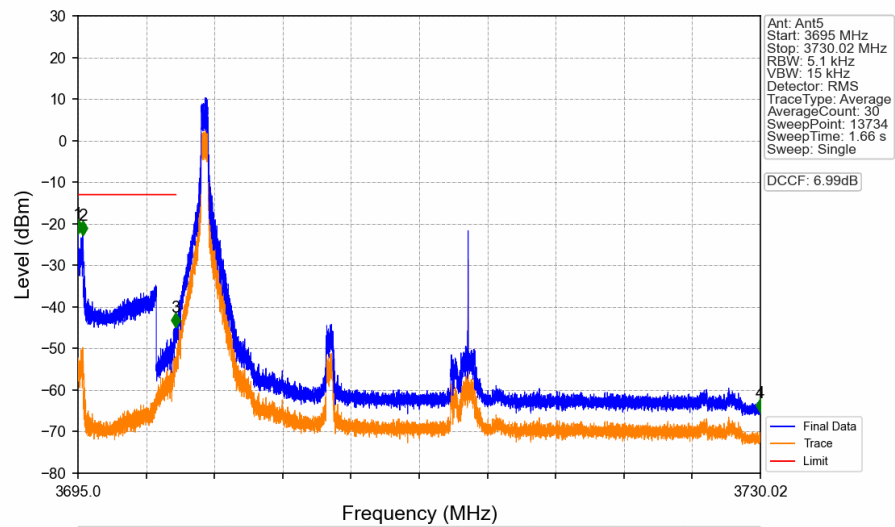
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3715.02MHz Edge 1RB Left



n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3715.02MHz Outer Full

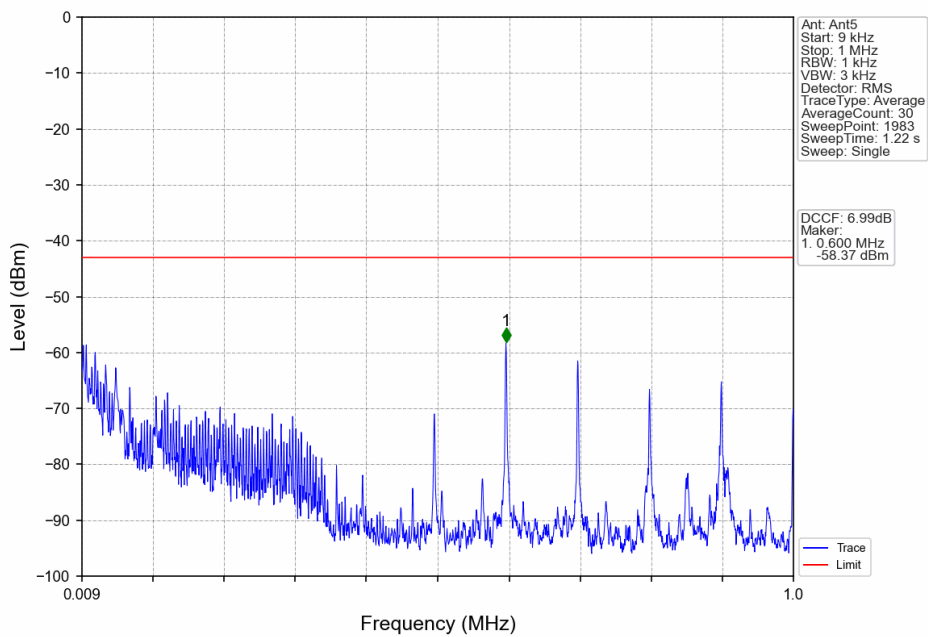


n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3715.02MHz Inner 1RB Left

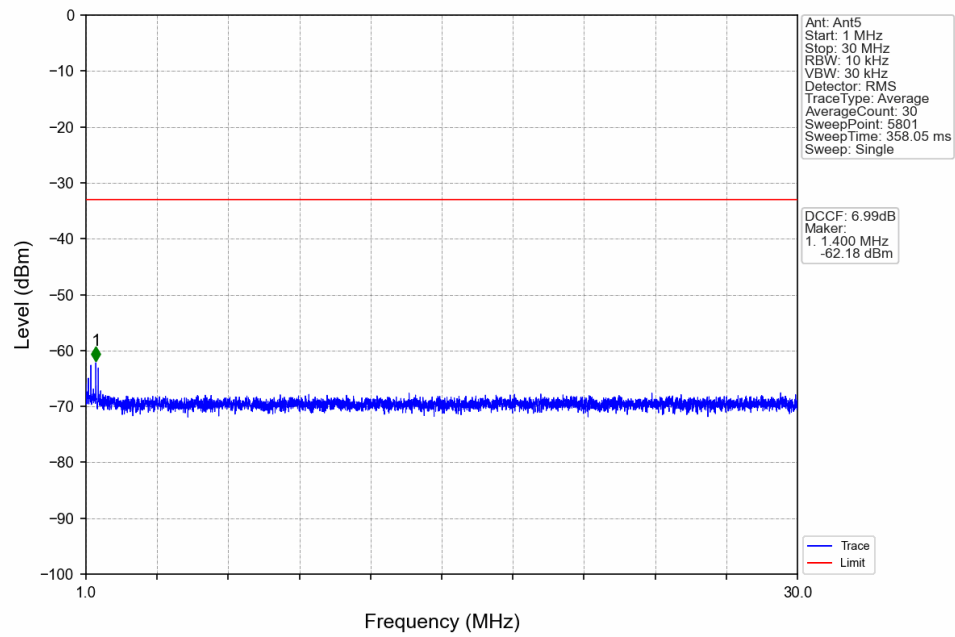


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.02	1	22.92	1	3695.003	-22.32	-13	Pass
3695.02	3699.02	0.5	19.91	2	3695.245	-22.83	-13	Pass
3699.02	3700.02	0.0051	0	3	3700.003	-44.92	-13	Pass
3700.02	3730.02	0.0051	0	4	3730.020	-65.49	-13	Pass

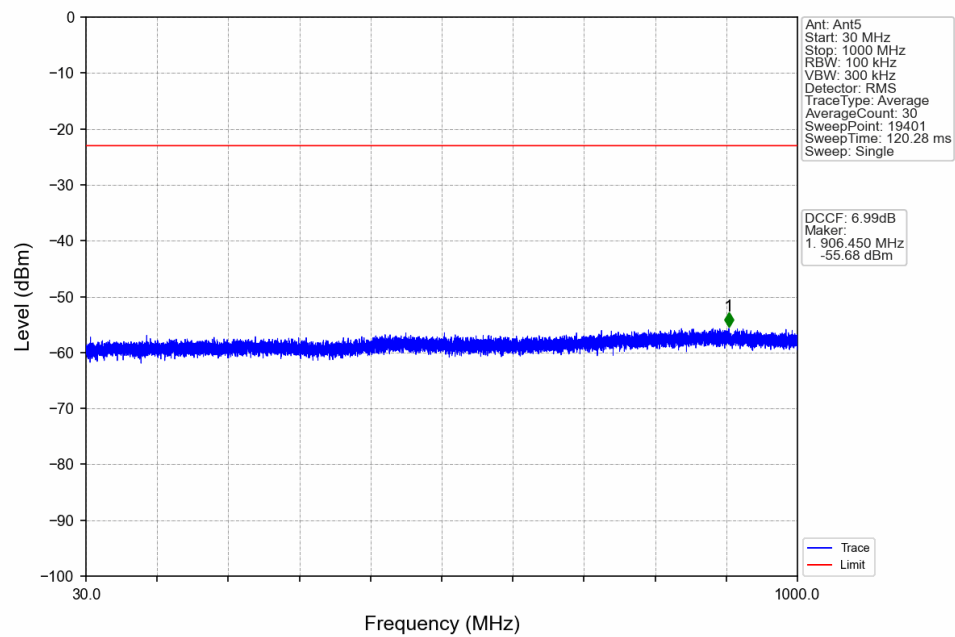
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left



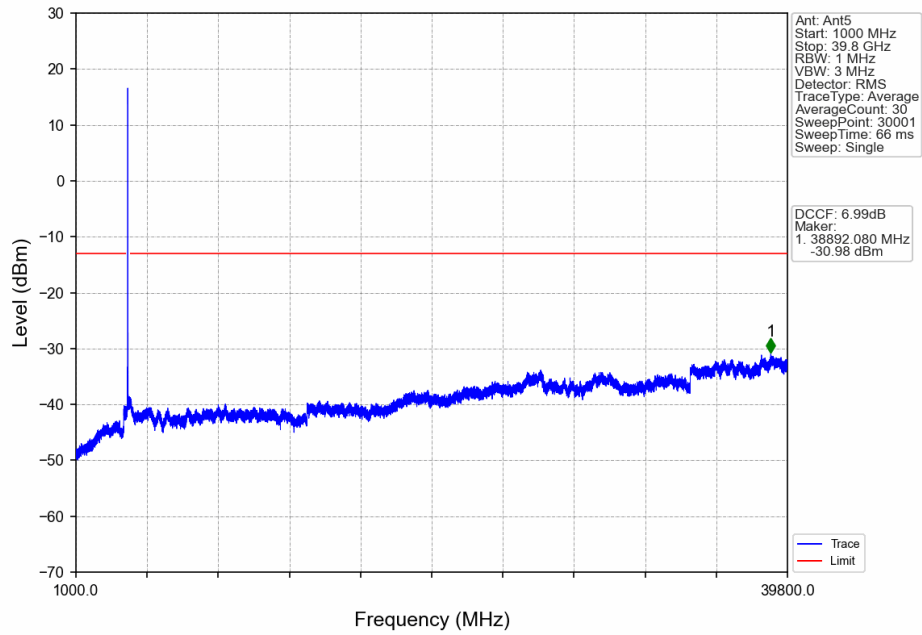
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left



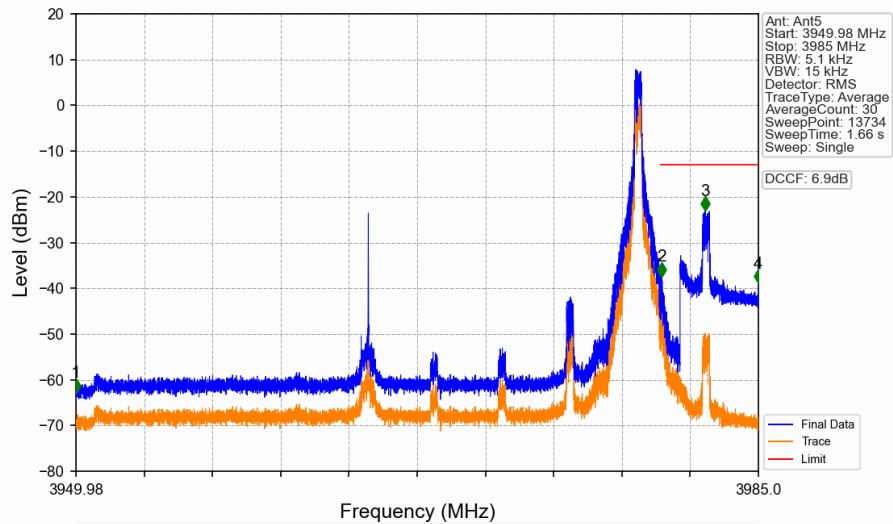
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left



n77a 30kHz SISO NTNv 30MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left

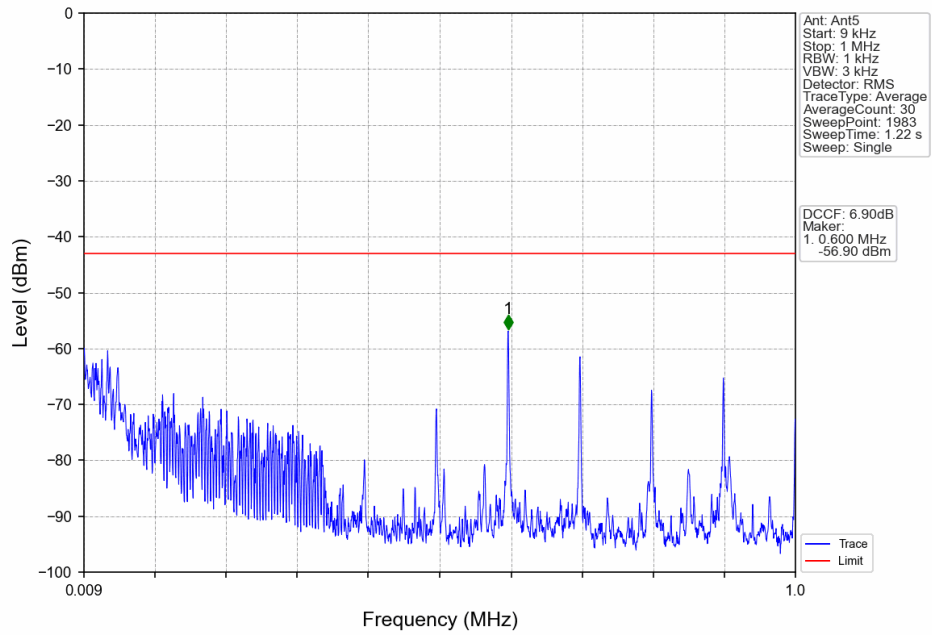


n77a 30kHz SISO NTNv 30MHz DFT-s-OFDM QPSK 3964.98MHz Edge 1RB Right

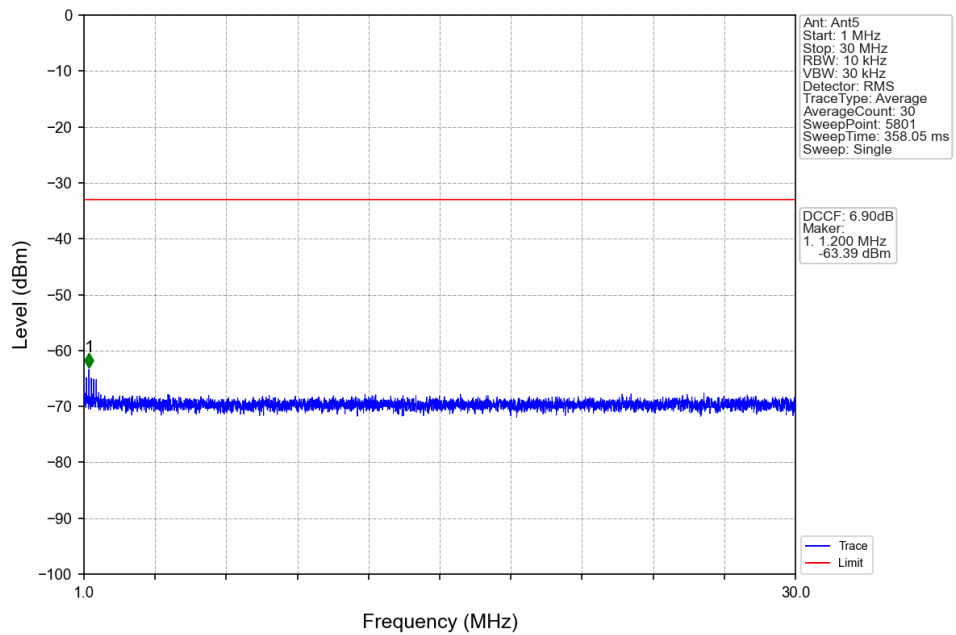


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3949.98	3979.98	0.0051	0	1	3949.980	-62.81	-13	Pass
3979.98	3979.98	0.0051	0	/	/	/	/	/
3979.98	3980.98	0.0051	0	2	3980.035	-37.41	-13	Pass
3980.98	3984.98	0.5	19.91	3	3982.266	-22.99	-13	Pass
3984.98	3985	1	22.92	4	3985.000	-38.92	-13	Pass

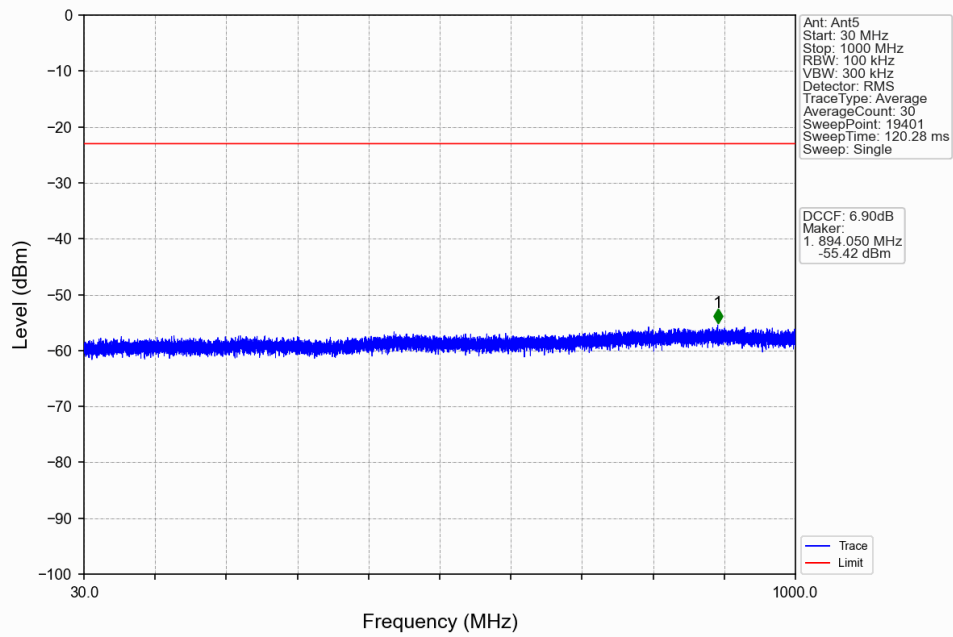
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3964.98MHz Edge 1RB Right



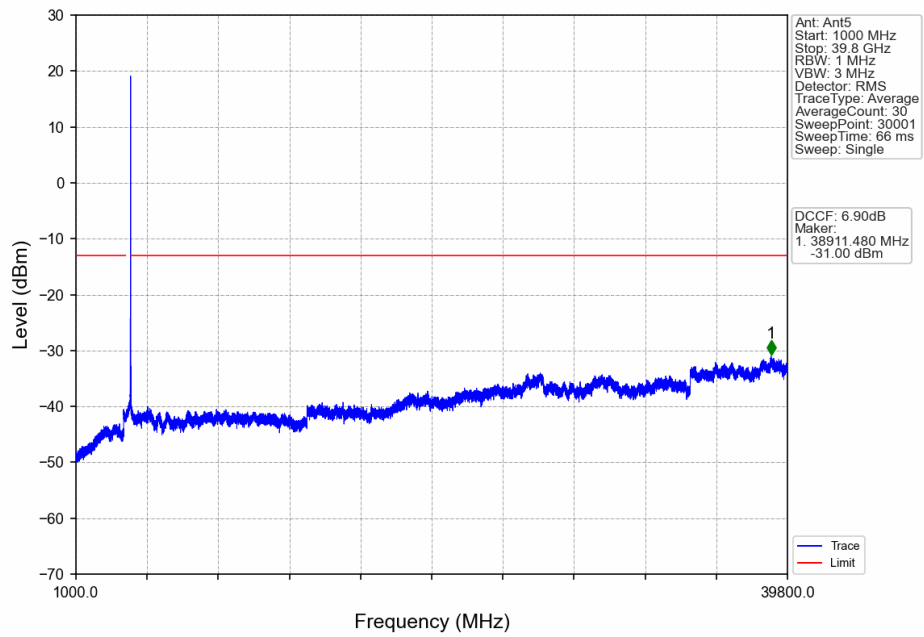
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3964.98MHz Edge 1RB Right



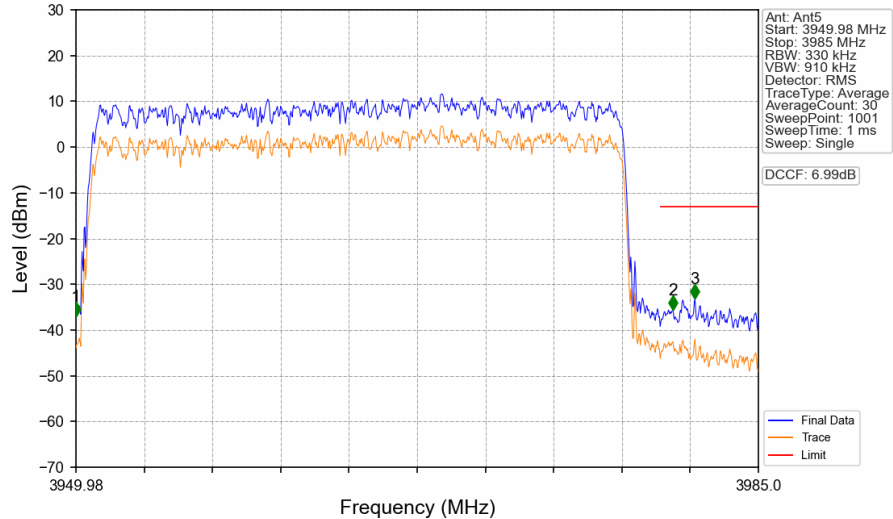
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3964.98MHz Edge 1RB Right



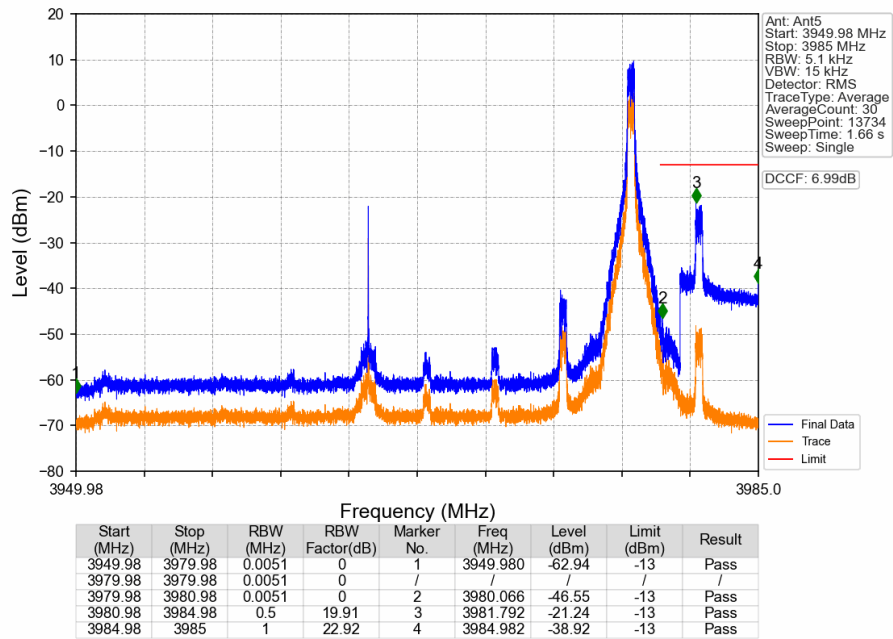
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3964.98MHz Edge 1RB Right



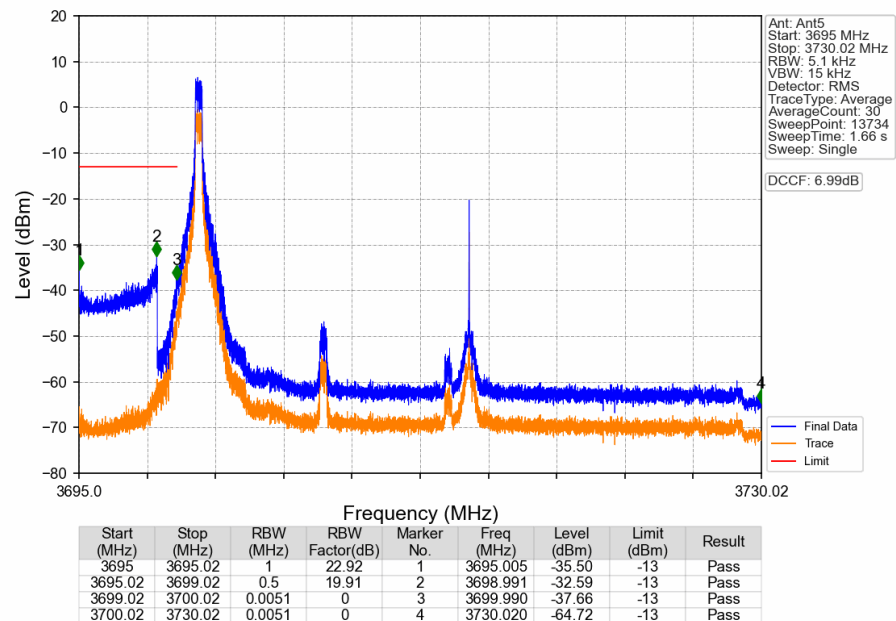
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3964.98MHz Outer Full



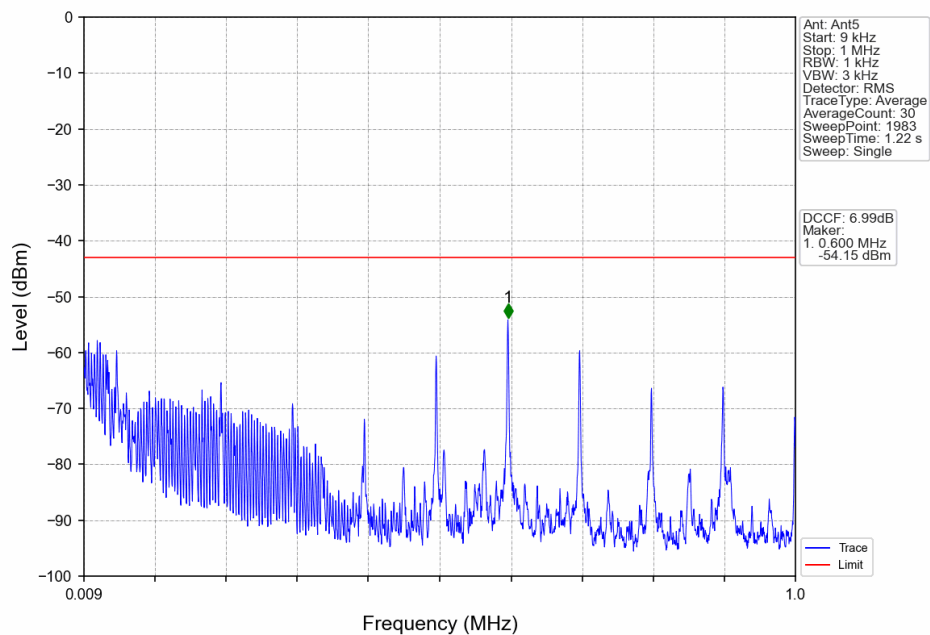
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3964.98MHz Inner 1RB Right



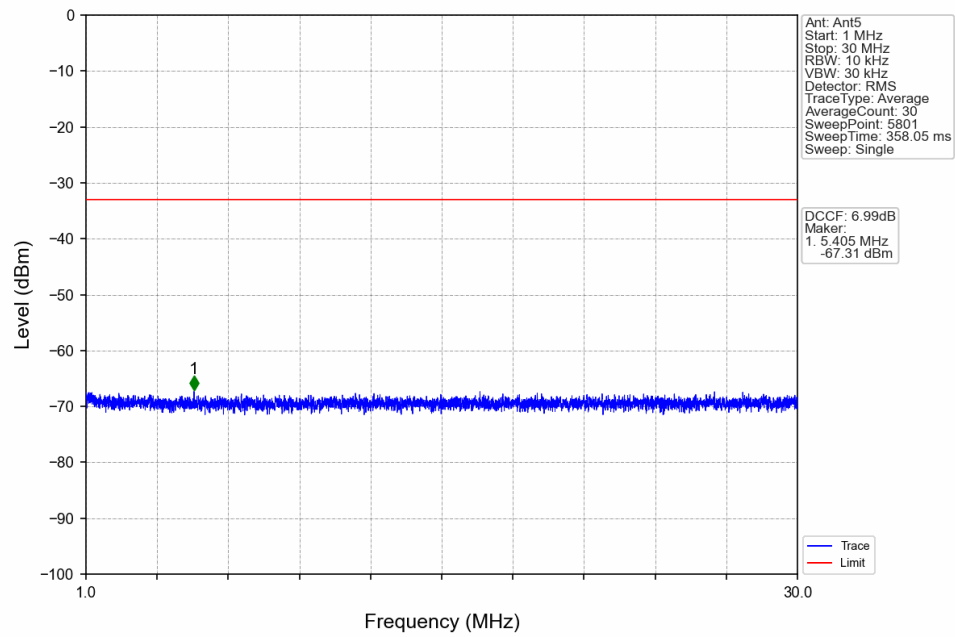
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3715.02MHz Edge 1RB Left



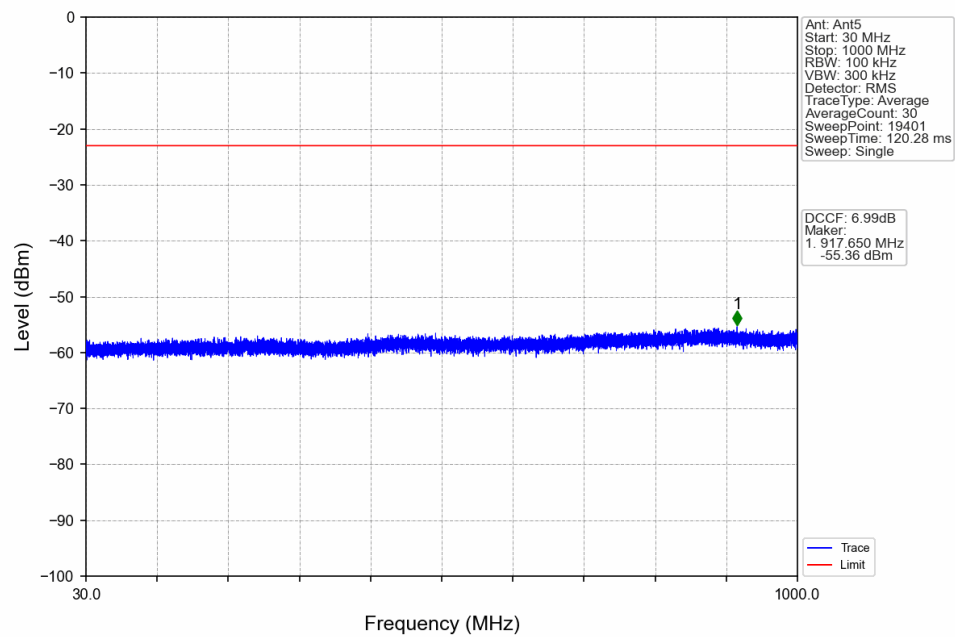
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3715.02MHz Edge 1RB Left



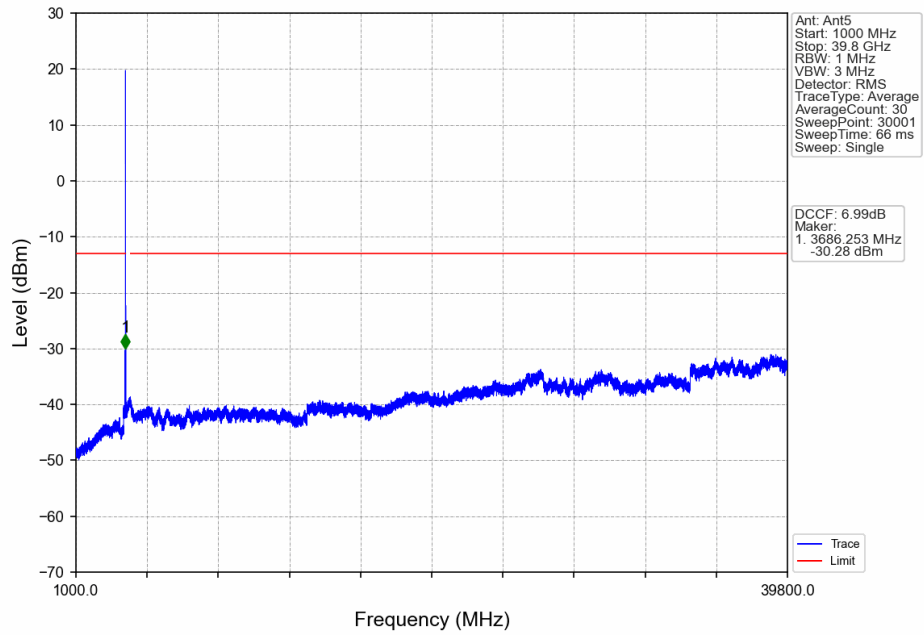
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3715.02MHz Edge 1RB Left



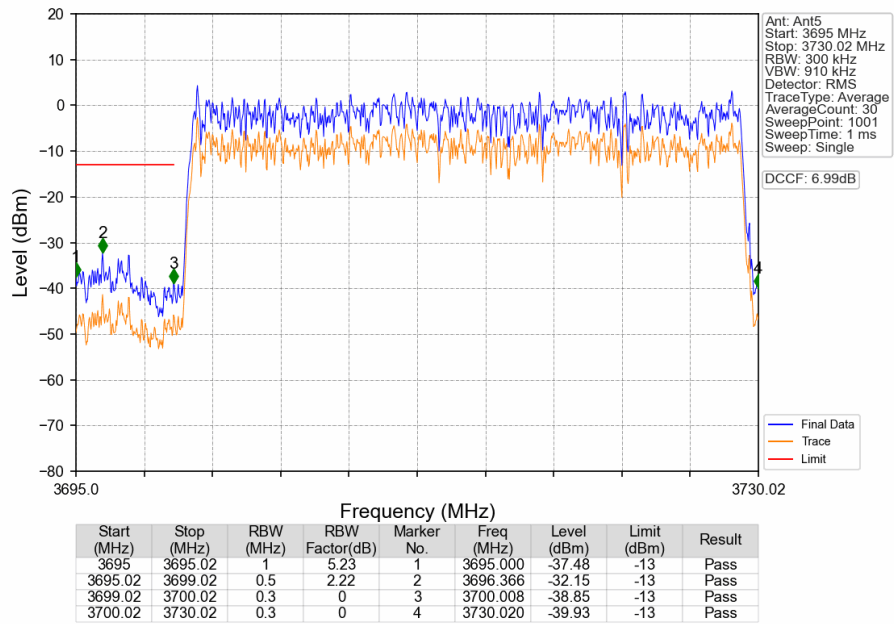
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3715.02MHz Edge 1RB Left



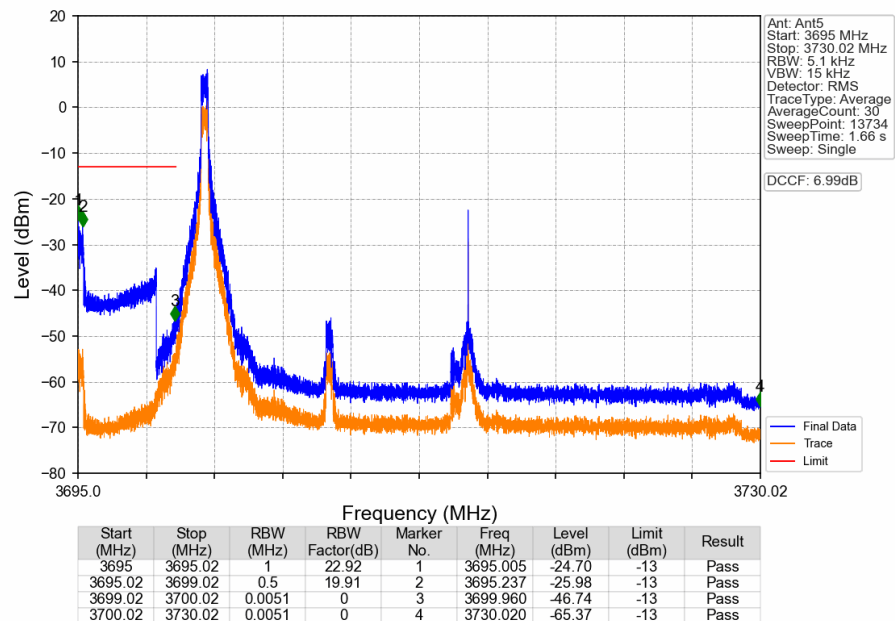
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3715.02MHz Edge 1RB Left



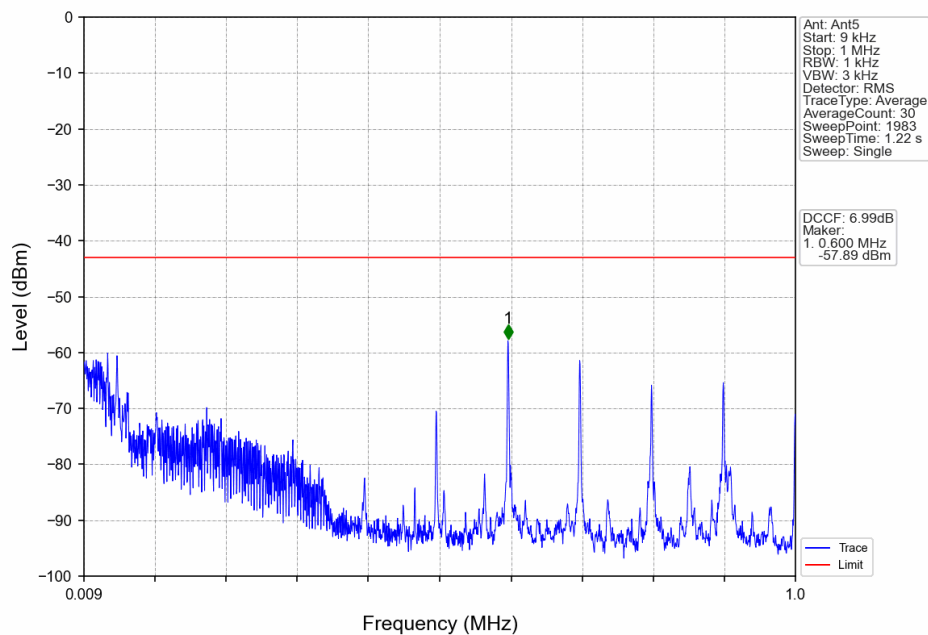
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3715.02MHz Outer Full



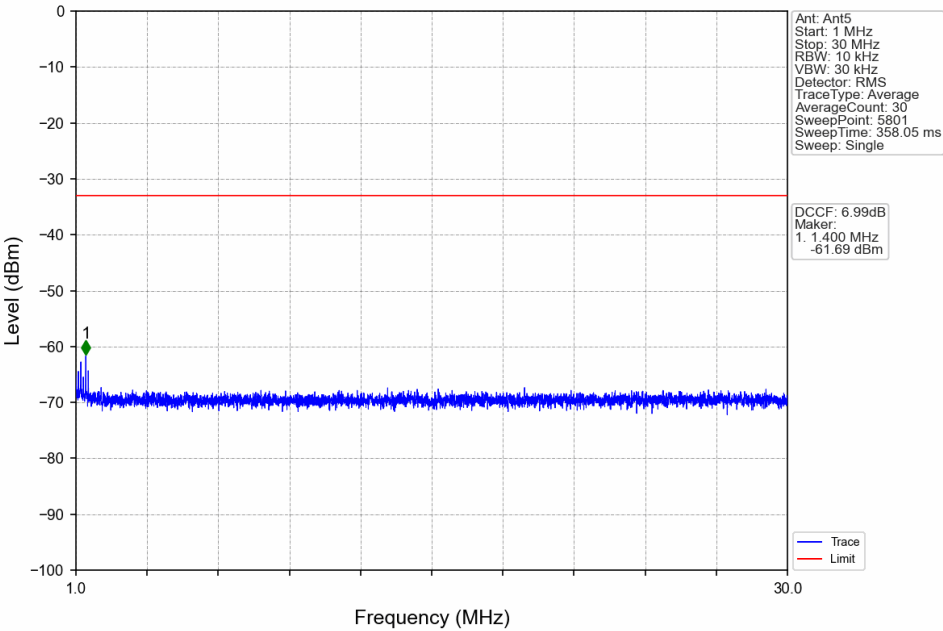
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3715.02MHz Inner 1RB Left



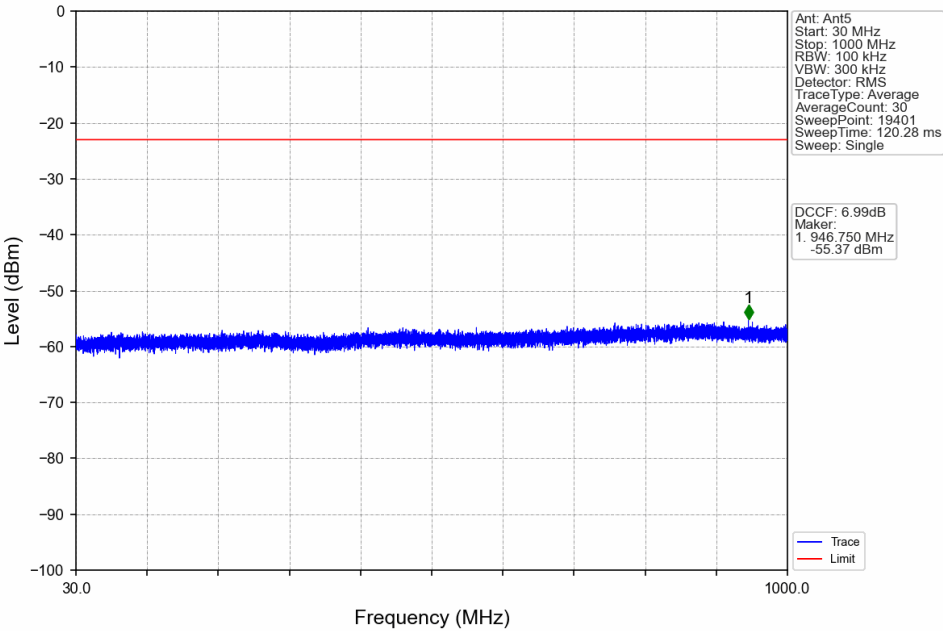
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



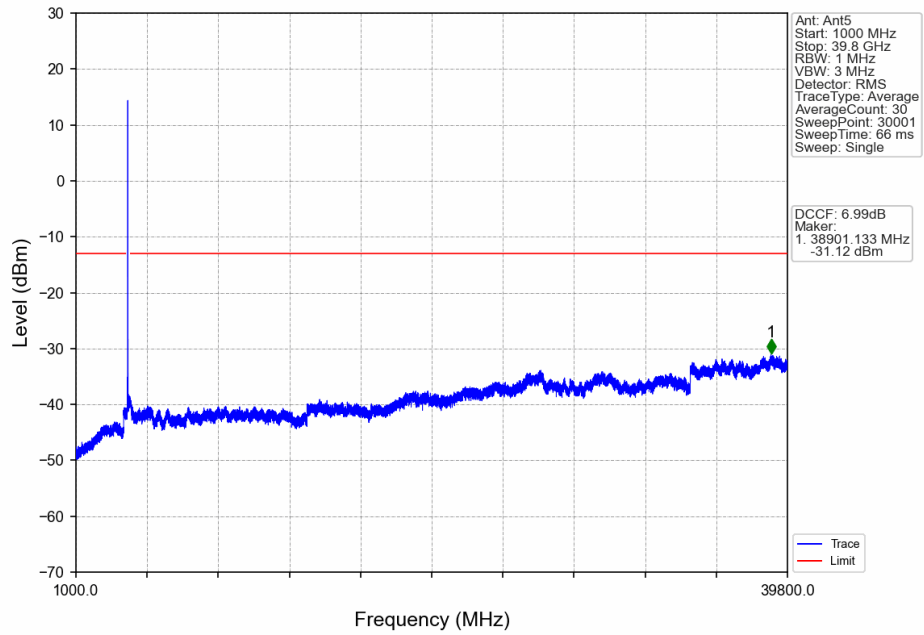
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



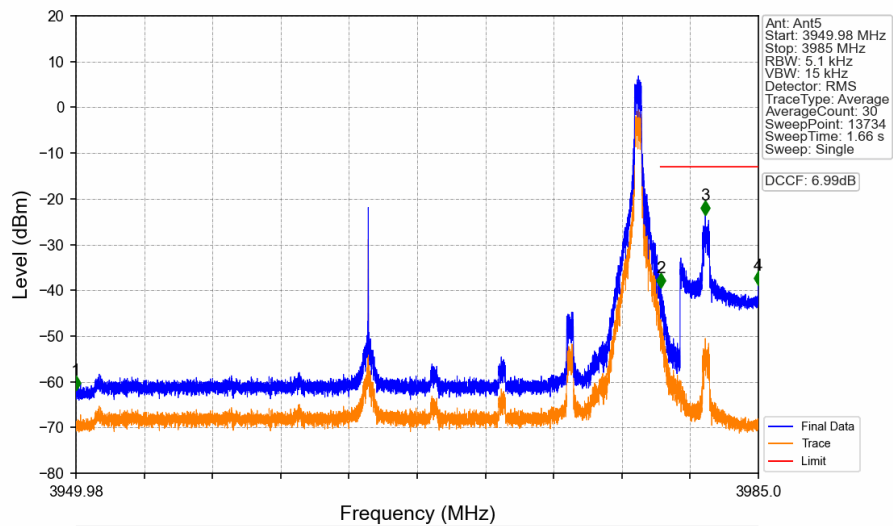
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



n77a 30kHz SISO NTV 30MHz CP-OFDM QPSK 3840MHz Edge 1RB Left

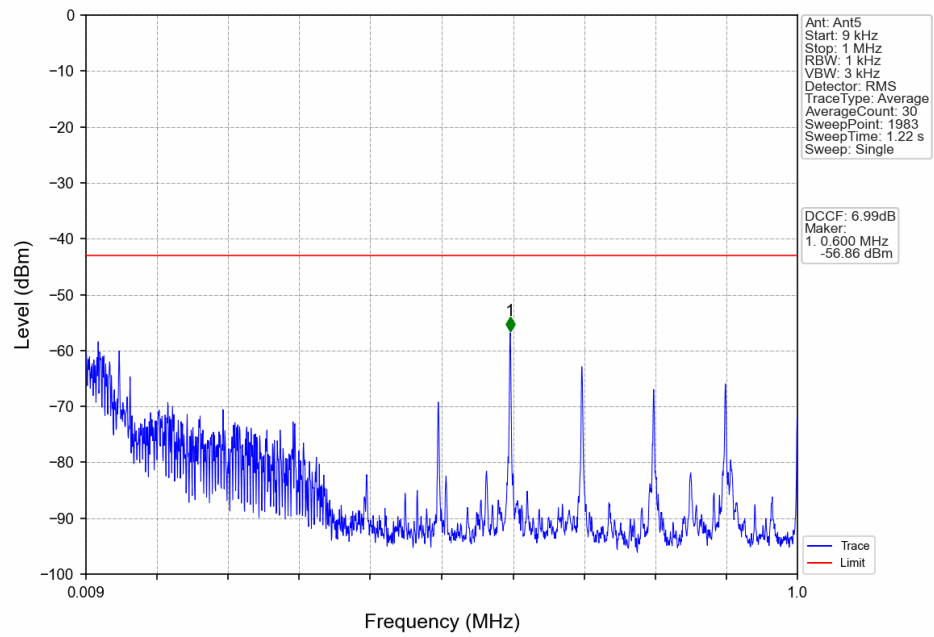


n77a 30kHz SISO NTV 30MHz CP-OFDM QPSK 3964.98MHz Edge 1RB Right

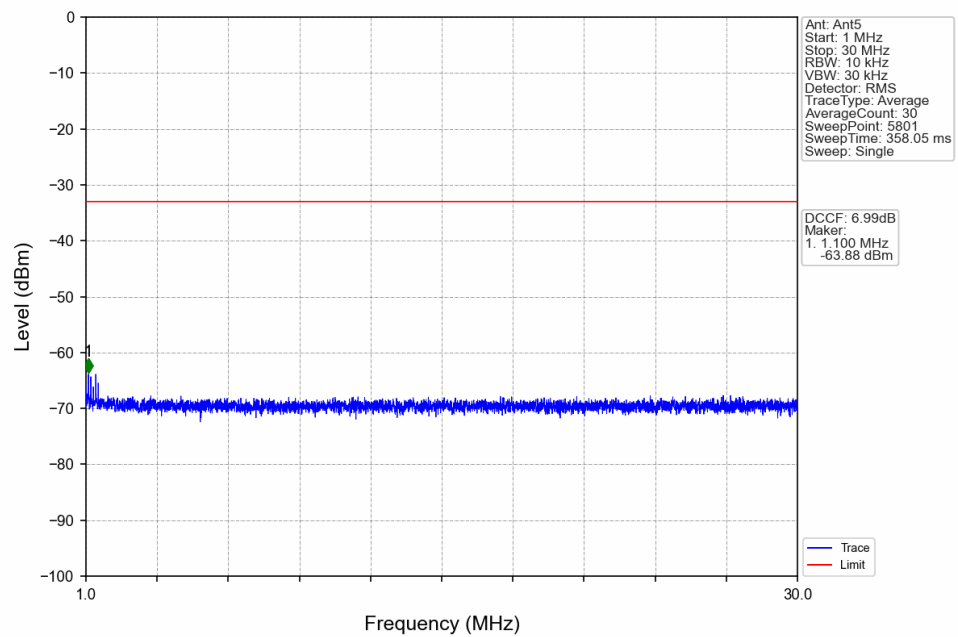


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3949.98	3979.98	0.0051	0	1	3949.980	-61.79	-13	Pass
3979.98	3979.98	0.0051	0	/	/	/	/	/
3979.98	3980.98	0.0051	0	2	3980.007	-39.49	-13	Pass
3980.98	3984.98	0.5	19.91	3	3982.274	-23.63	-13	Pass
3984.98	3985	1	22.92	4	3984.992	-38.87	-13	Pass

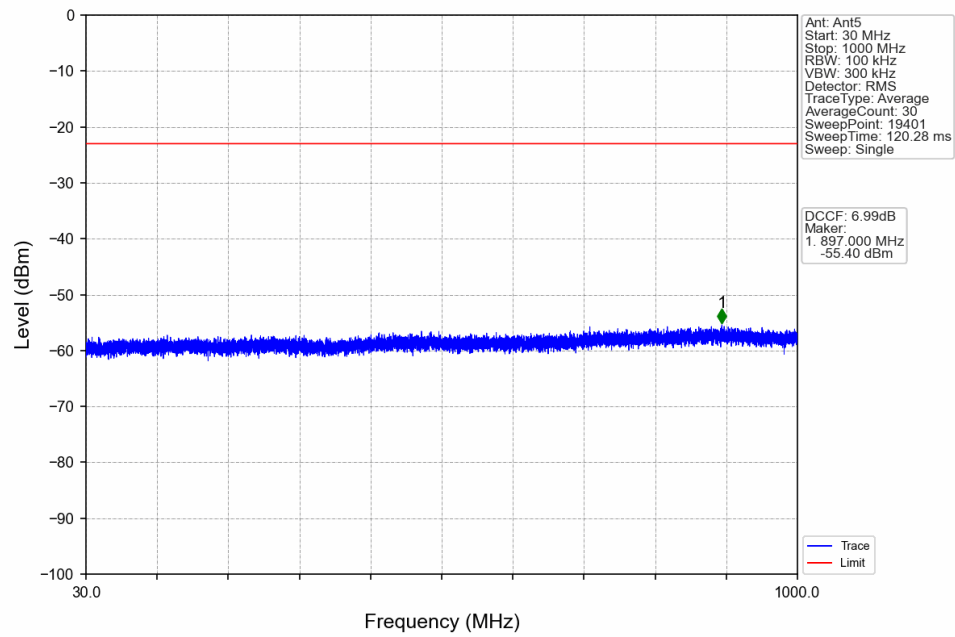
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3964.98MHz Edge 1RB Right



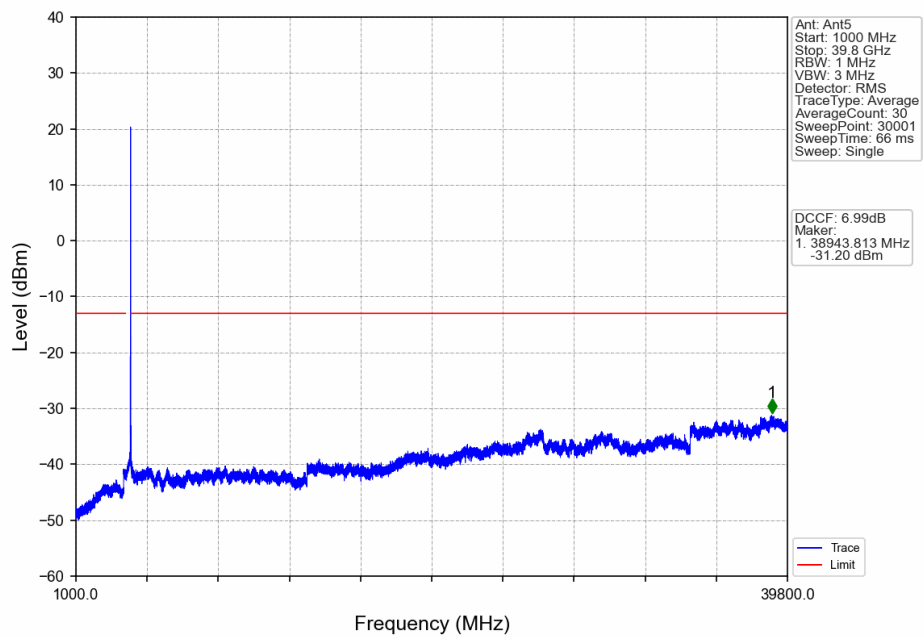
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3964.98MHz Edge 1RB Right



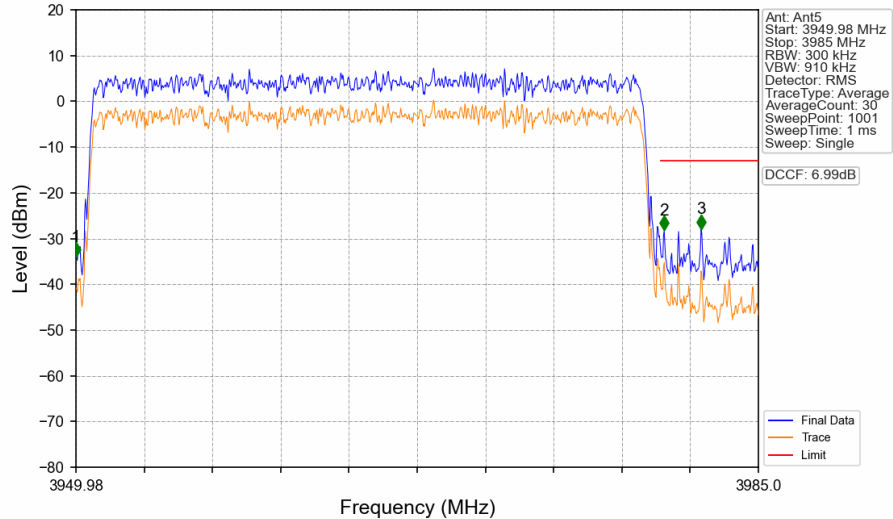
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3964.98MHz Edge 1RB Right



n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3964.98MHz Edge 1RB Right

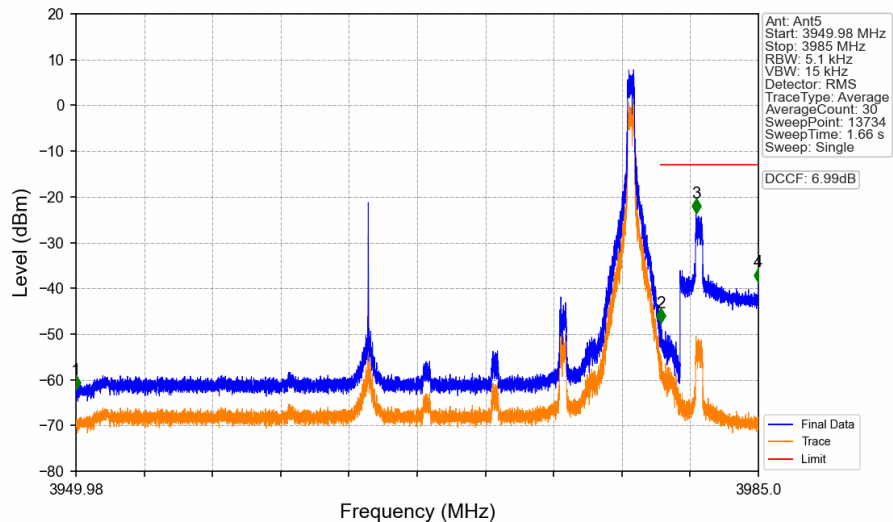


n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3964.98MHz Outer Full



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3949.98	3979.98	0.3	0	1	3949.980	-33.95	-13	Pass
3979.98	3979.98	0.3	0	/	/	/	/	/
3979.98	3980.98	0.3	0	2	3980.167	-28.20	-13	Pass
3980.98	3984.98	0.5	2.22	3	3982.058	-27.91	-13	Pass

n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3964.98MHz Inner 1RB Right



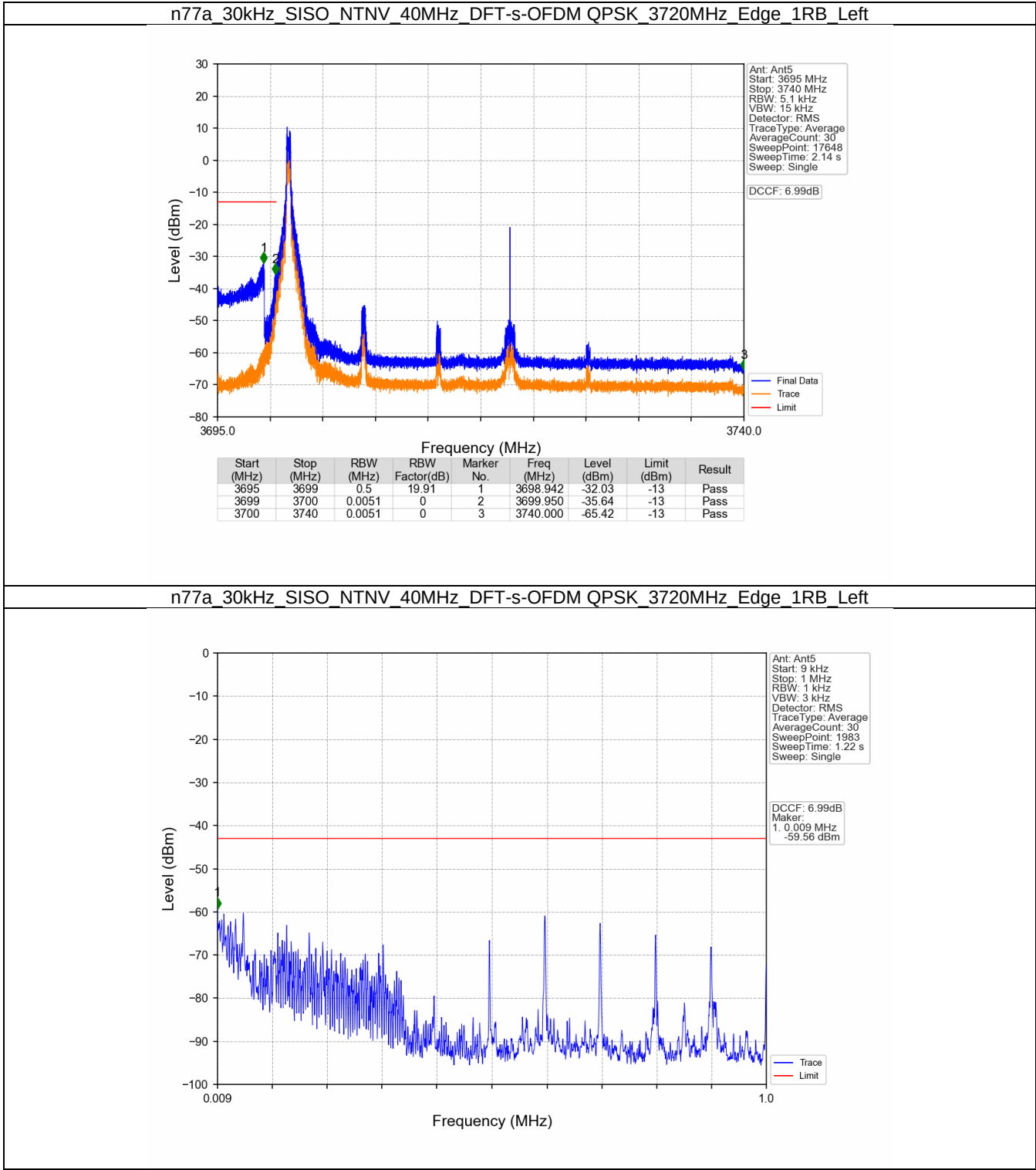
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3949.98	3979.98	0.0051	0	1	3949.980	-62.23	-13	Pass
3979.98	3979.98	0.0051	0	/	/	/	/	/
3979.98	3980.98	0.0051	0	2	3979.984	-47.59	-13	Pass
3980.98	3984.98	0.5	19.91	3	3981.800	-23.52	-13	Pass
3984.98	3985	1	22.92	4	3984.982	-38.64	-13	Pass

1.3 30k_SISO_40MHz_NTNV

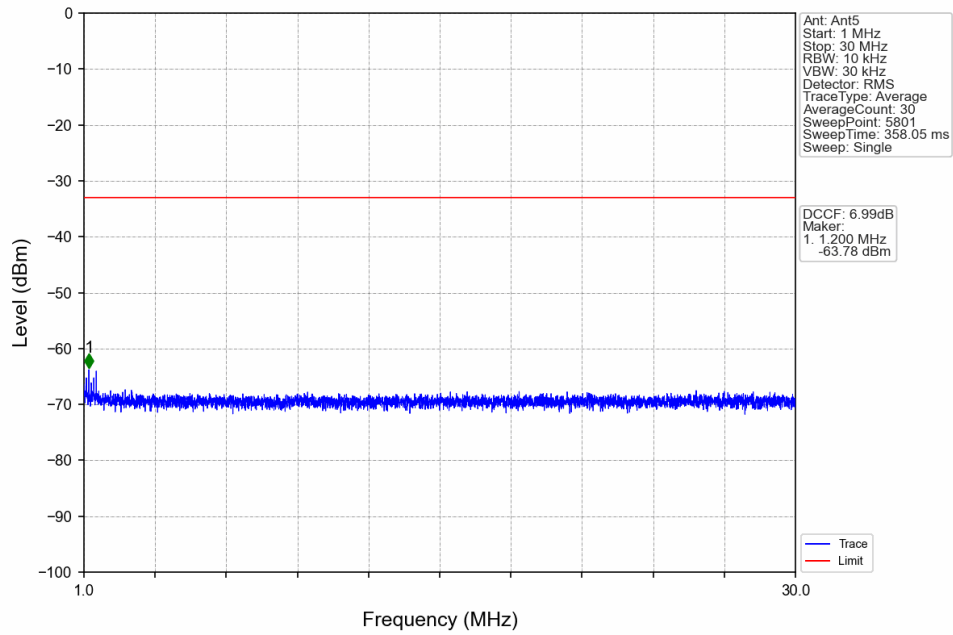
1.3.1 Test Result

5G NR n77a SCS=30kHz SISO 40MHz NTNv								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant5	Ant2	Sum	Limit		
DFT-s-OFDM QPSK	3720	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3840	Edge_1RB_Left	Refer To Test Graph				Pass	
		3960	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	3720	Edge_1RB_Left	Refer To Test Graph			
Outer_Full	Refer To Test Graph				Pass			
Inner_1RB_Left	Refer To Test Graph				Pass			
3840	Edge_1RB_Left		Refer To Test Graph				Pass	
	3960		Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass

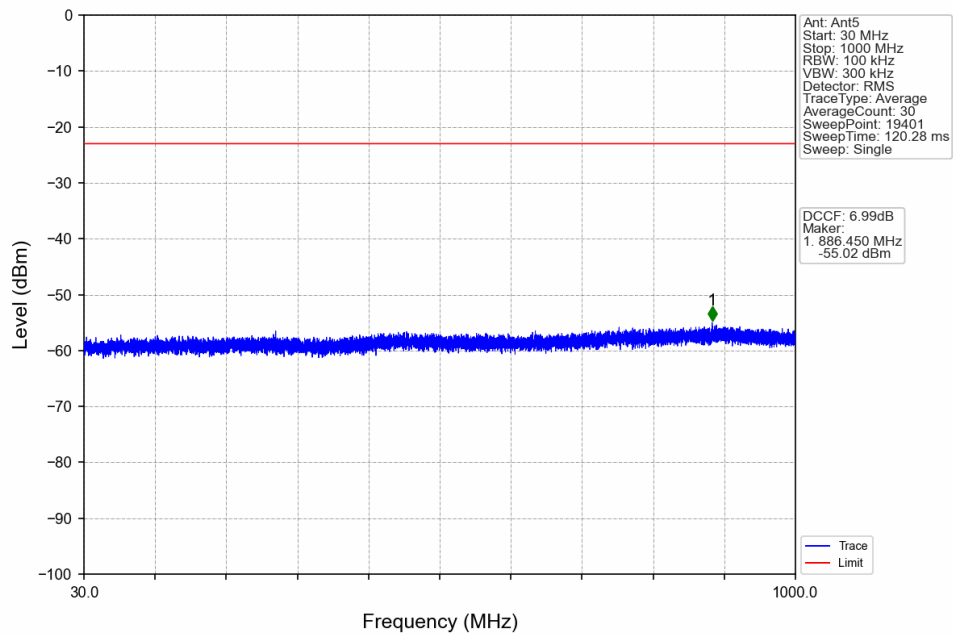
1.3.2 Test Graph



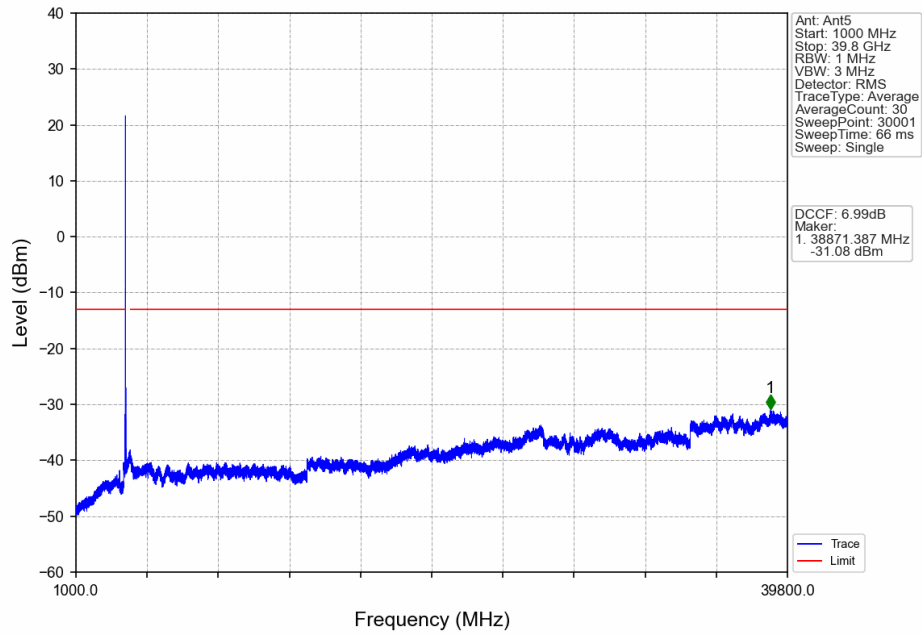
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3720MHz Edge 1RB Left



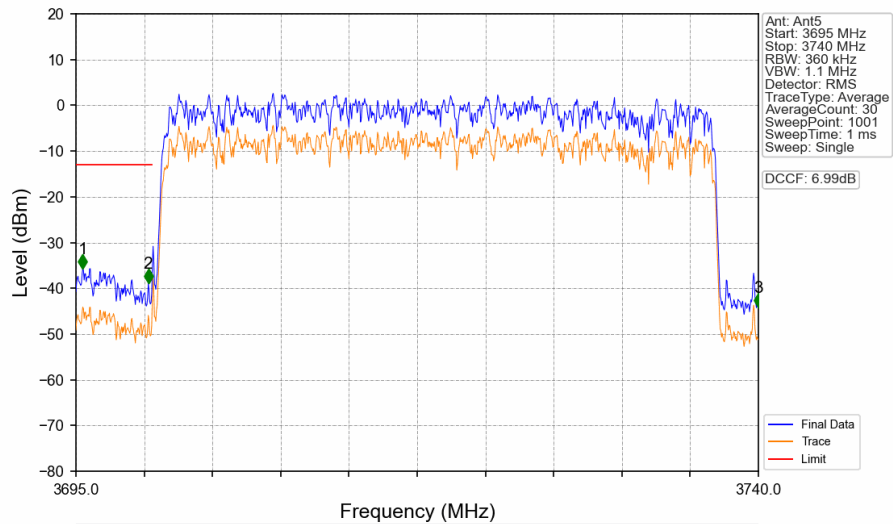
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3720MHz Edge 1RB Left



n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3720MHz Edge 1RB Left

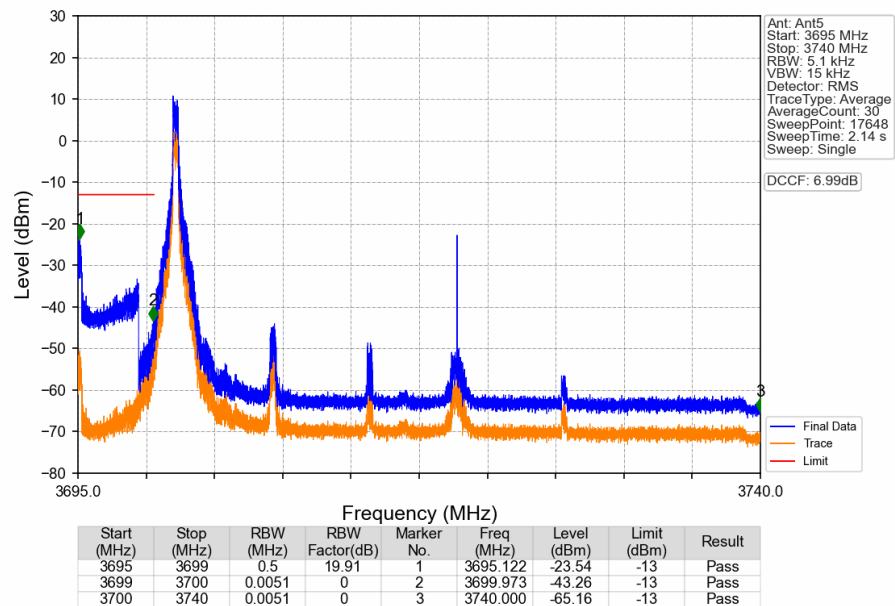


n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3720MHz Outer Full

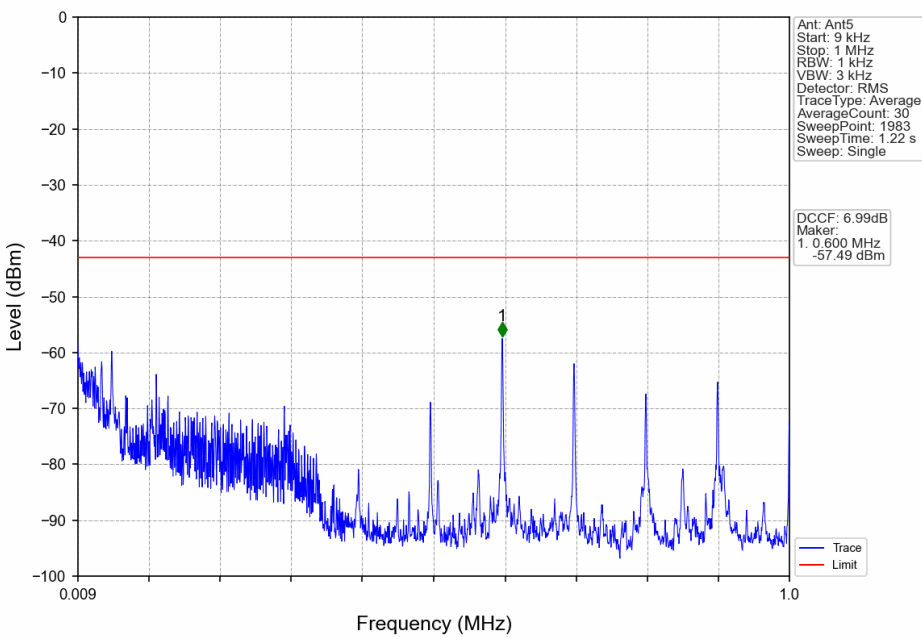


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3699	0.5	1.43	1	3695.450	-35.68	-13	Pass
3699	3700	0.36	0	2	3699.770	-38.93	-13	Pass
3700	3740	0.36	0	3	3740.000	-44.23	-13	Pass

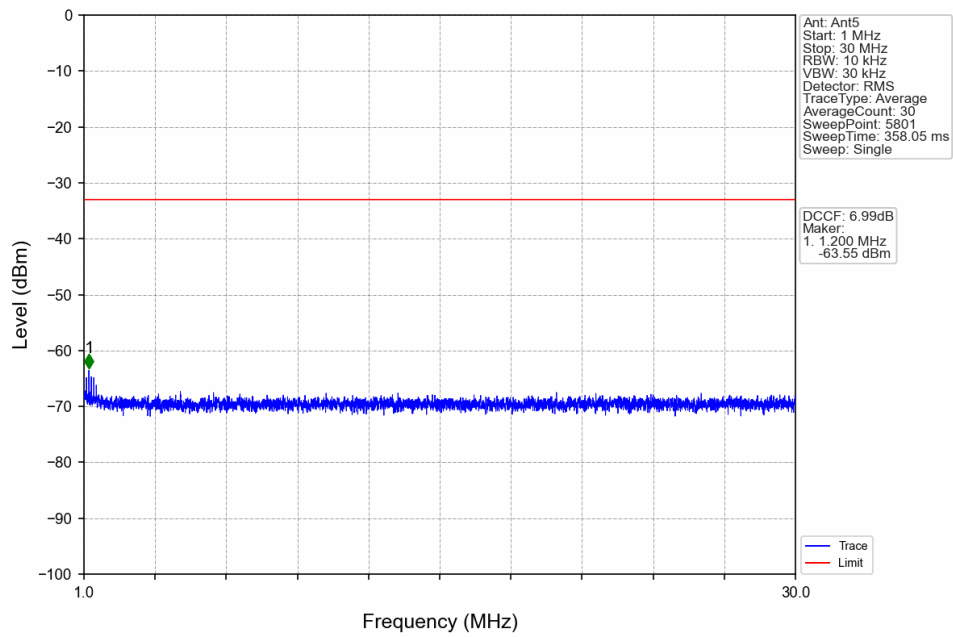
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3720MHz Inner 1RB Left



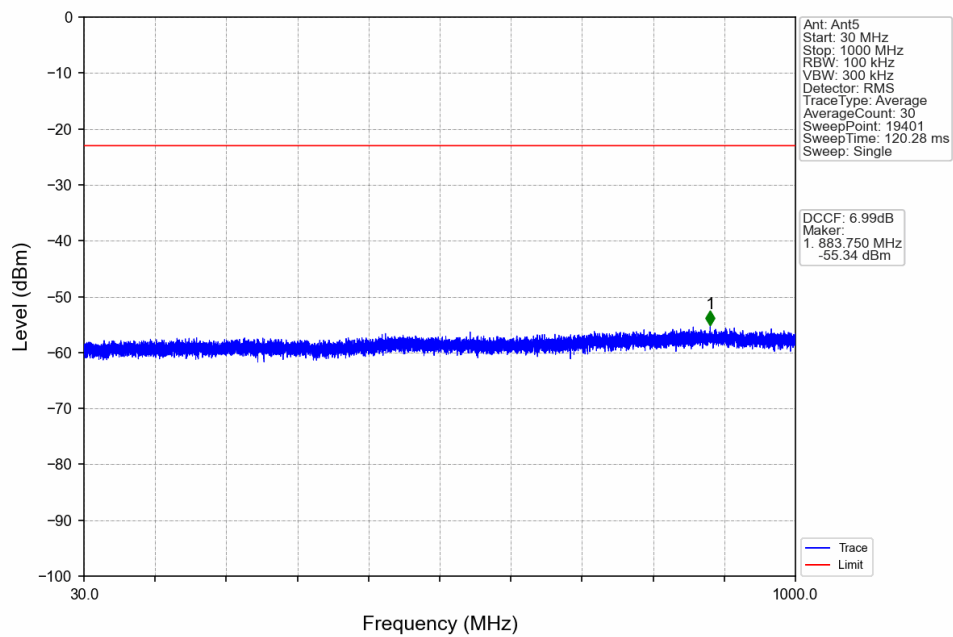
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left



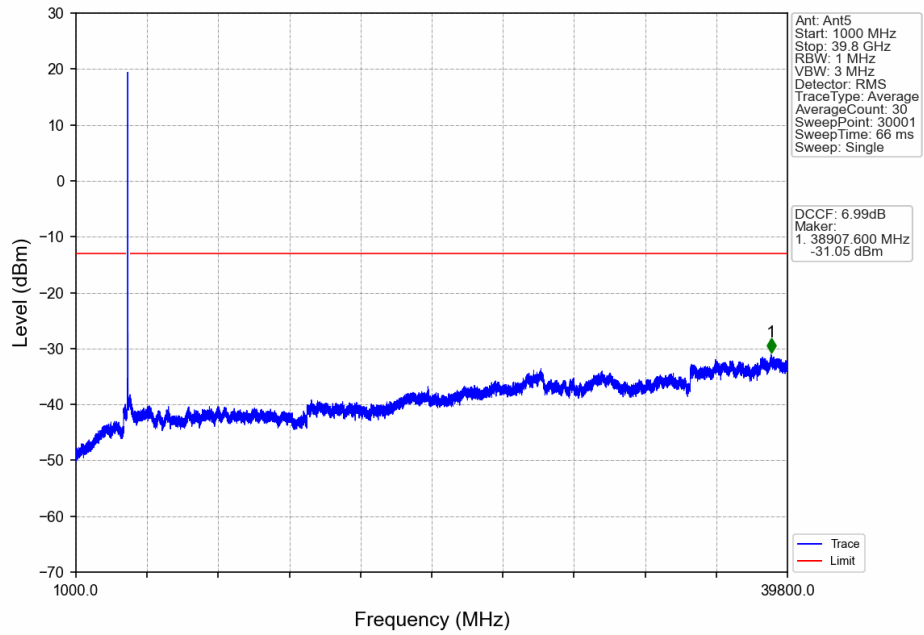
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left



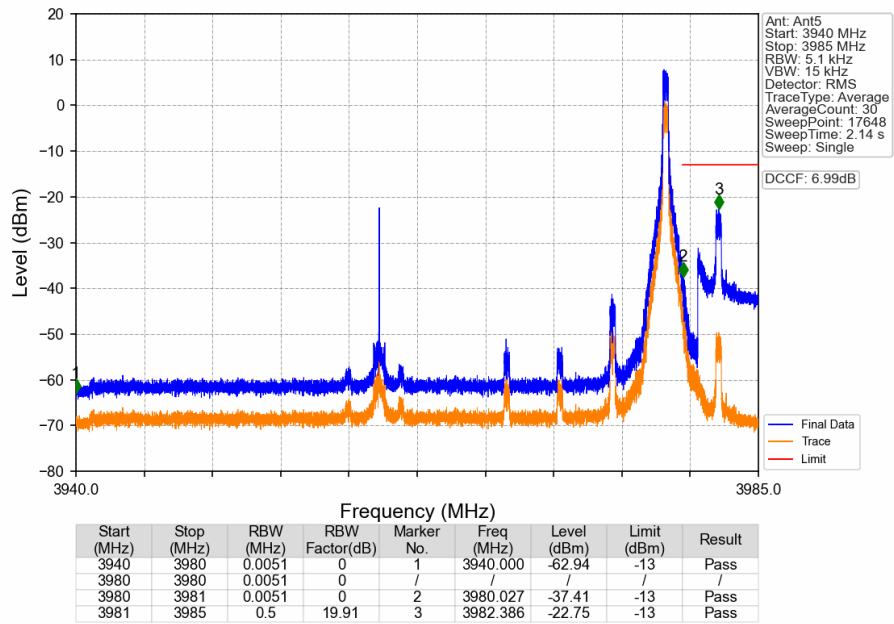
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left



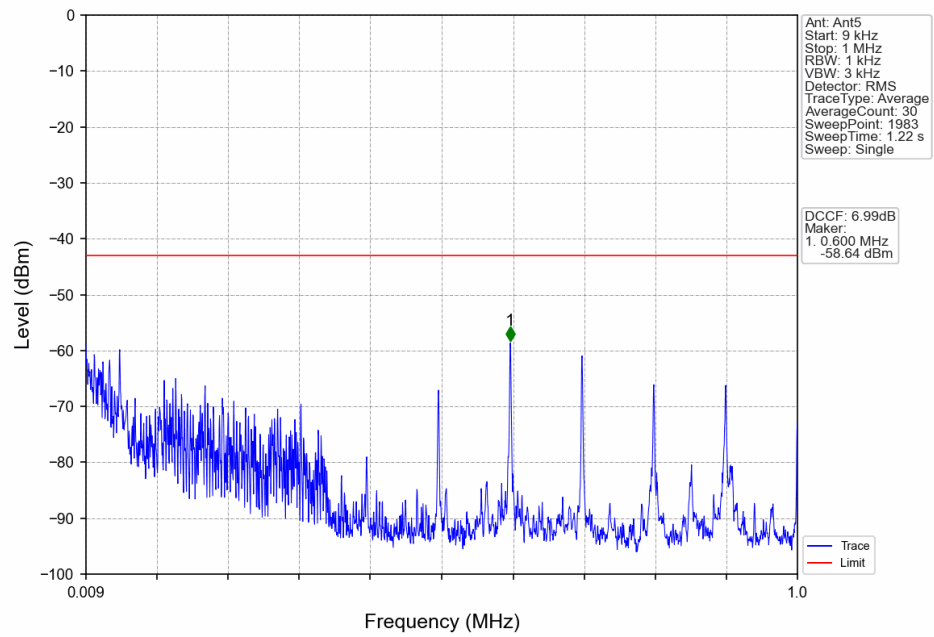
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3840MHz Edge 1RB Left



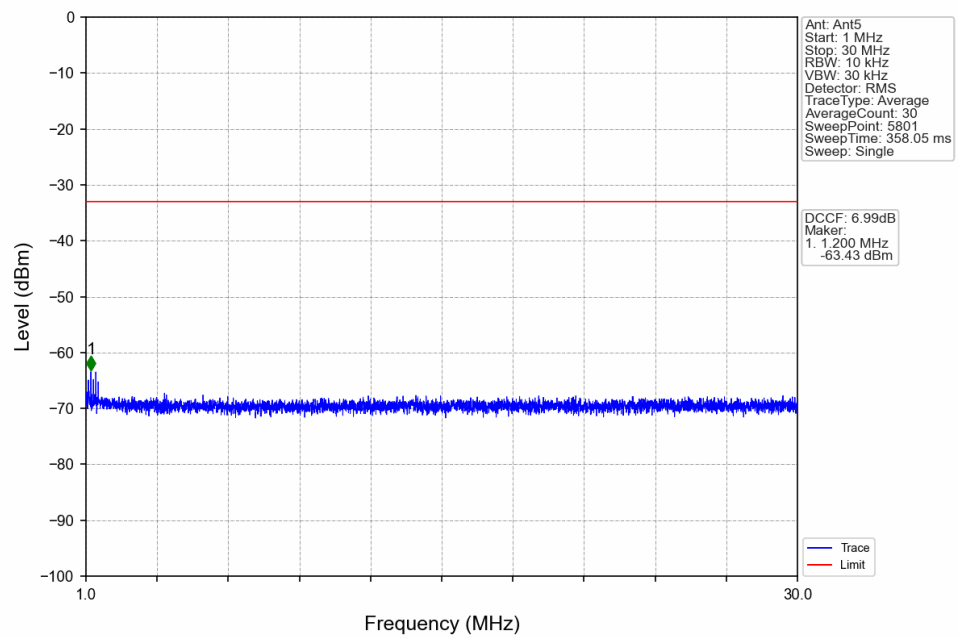
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3960MHz Edge 1RB Right



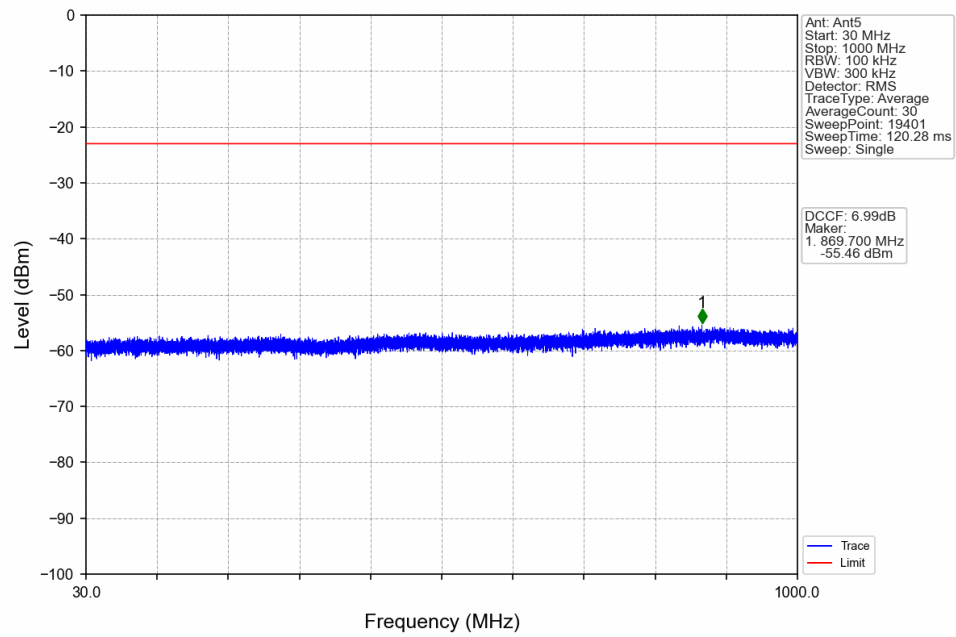
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3960MHz Edge 1RB Right



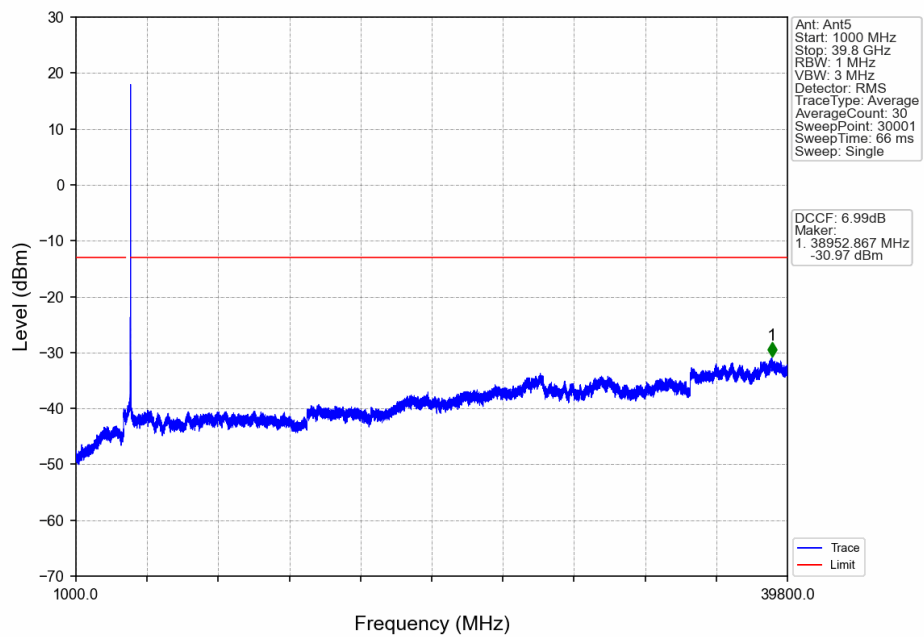
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3960MHz Edge 1RB Right



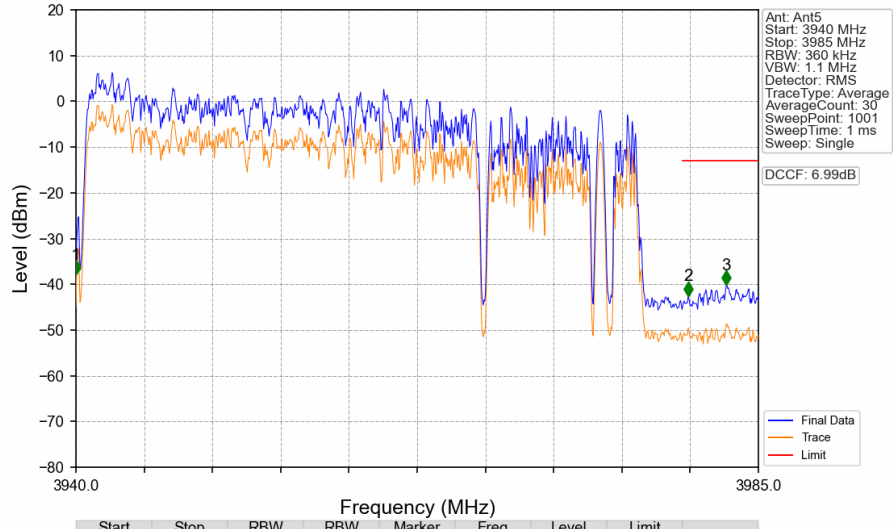
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3960MHz Edge 1RB Right



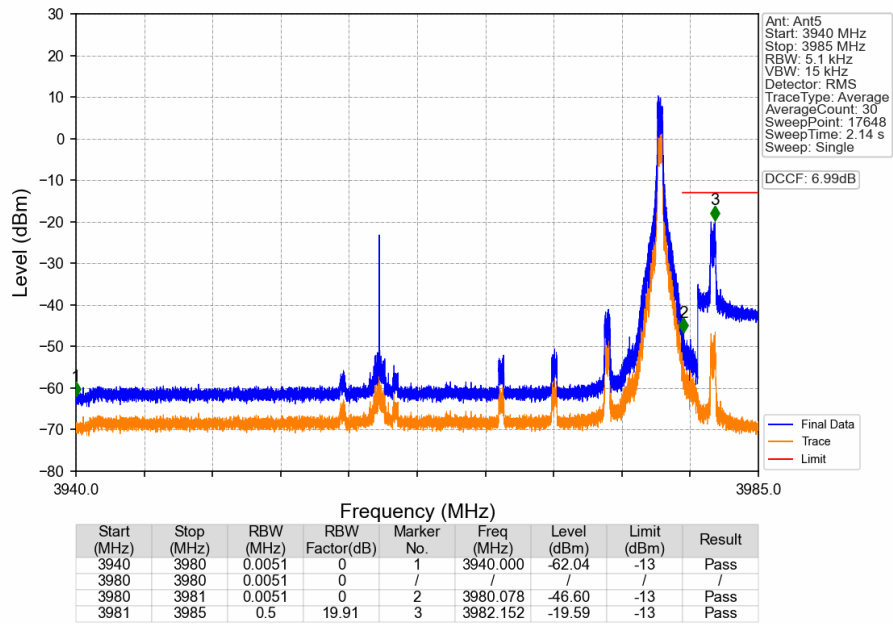
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3960MHz Edge 1RB Right



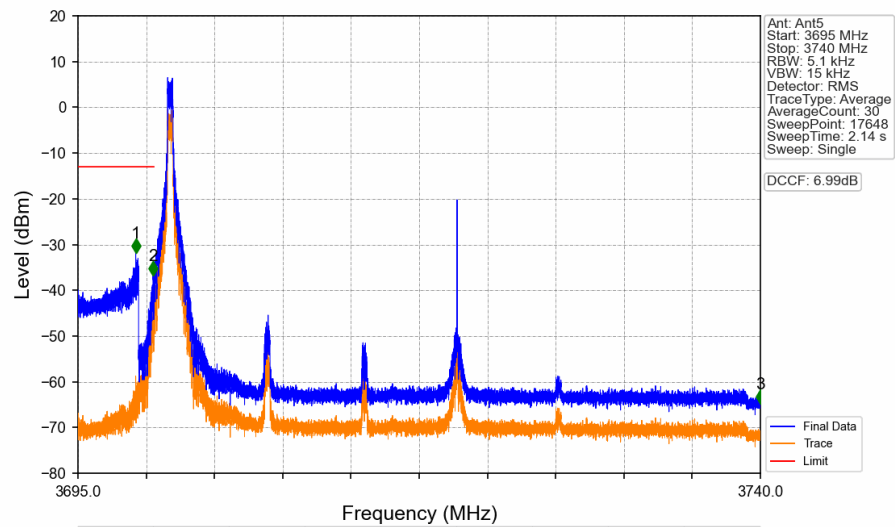
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3960MHz Outer Full



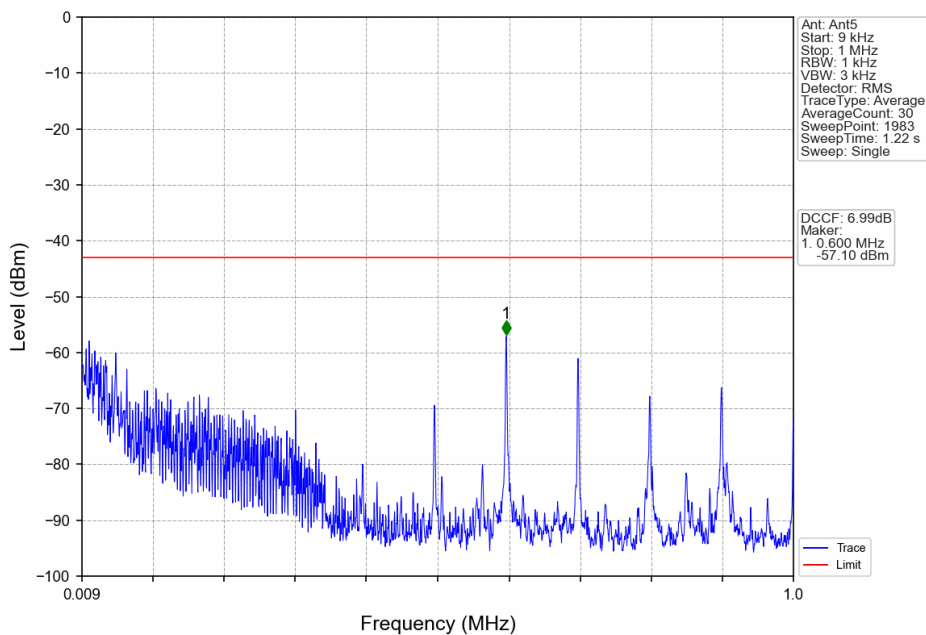
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3960MHz Inner 1RB Right



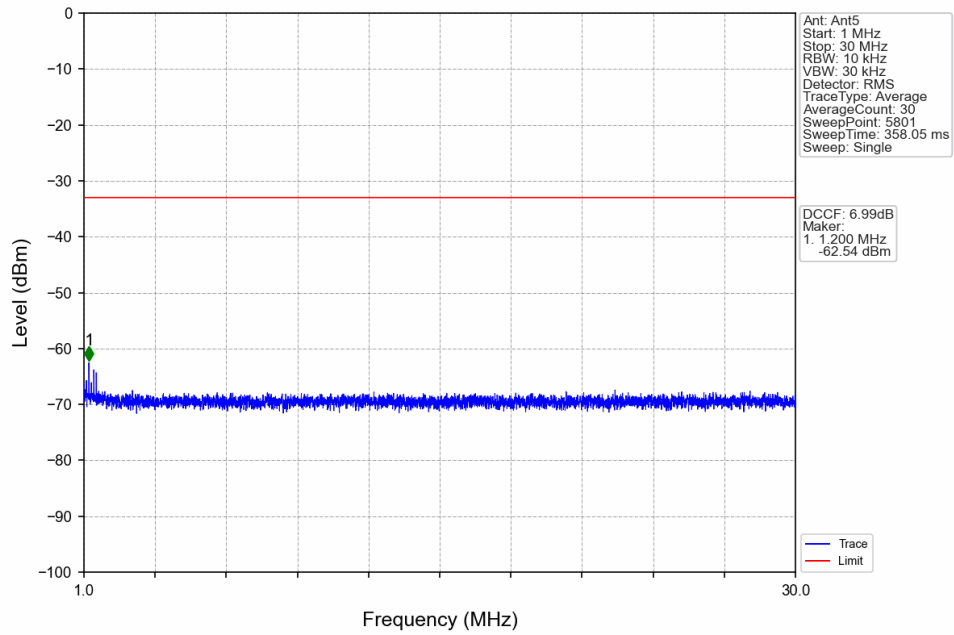
n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3720MHz Edge 1RB Left



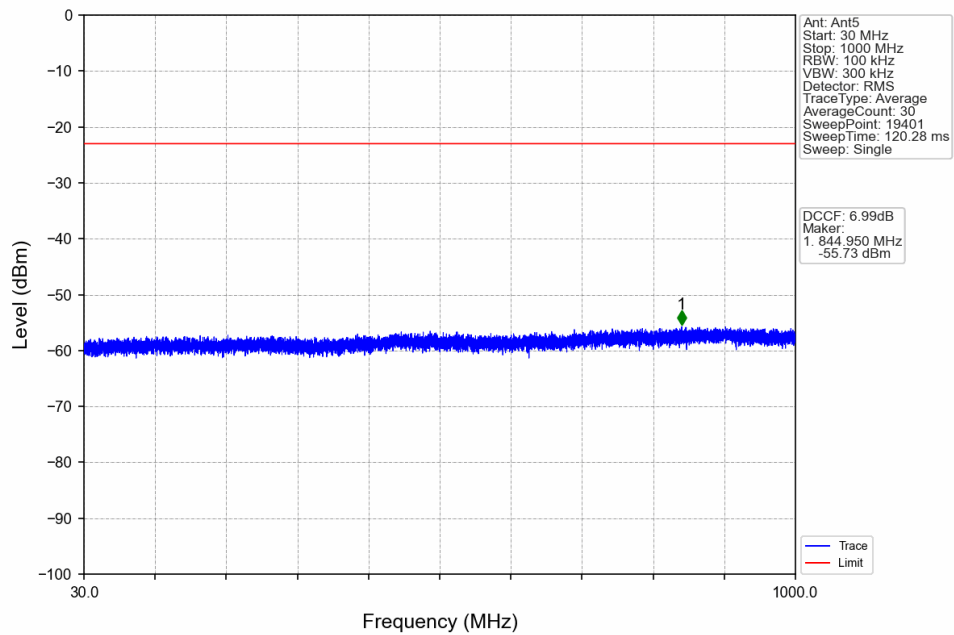
n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3720MHz Edge 1RB Left



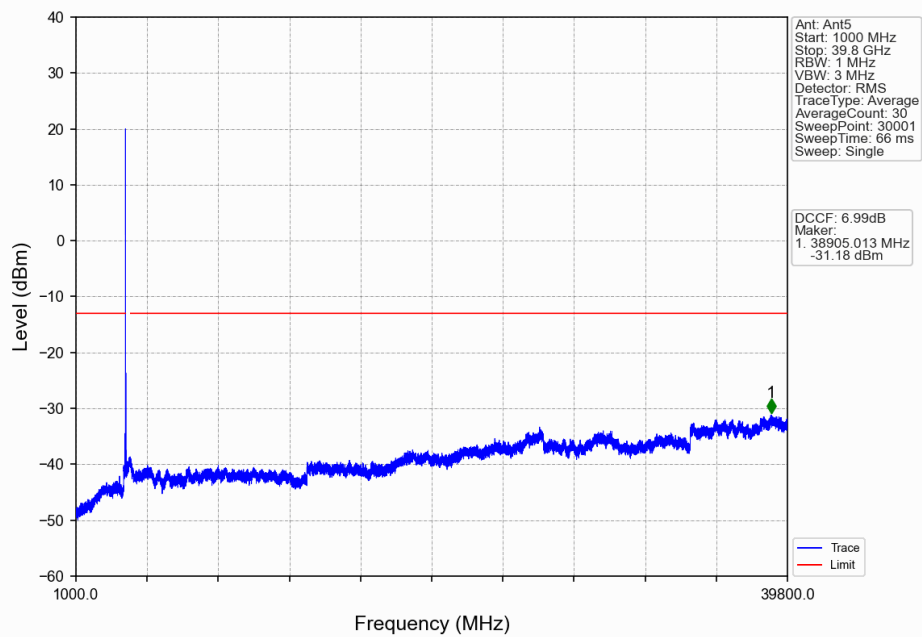
n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3720MHz Edge 1RB Left



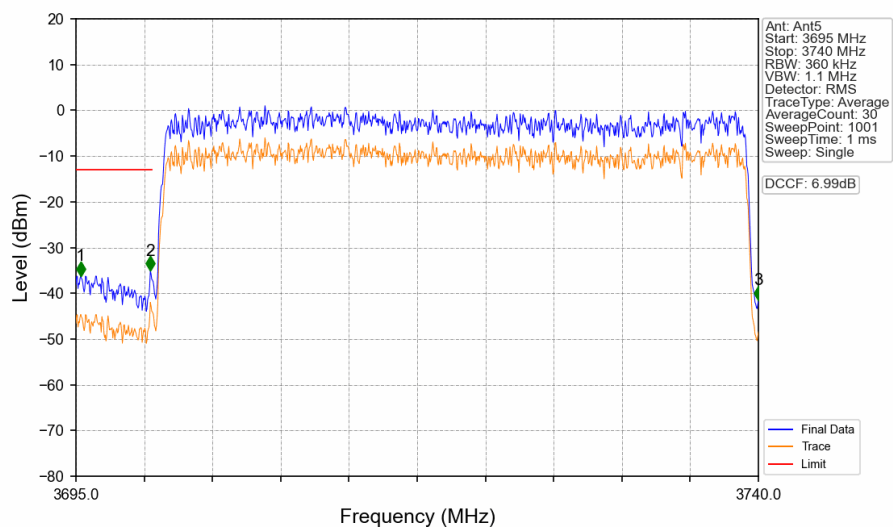
n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3720MHz Edge 1RB Left



n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3720MHz Edge 1RB Left

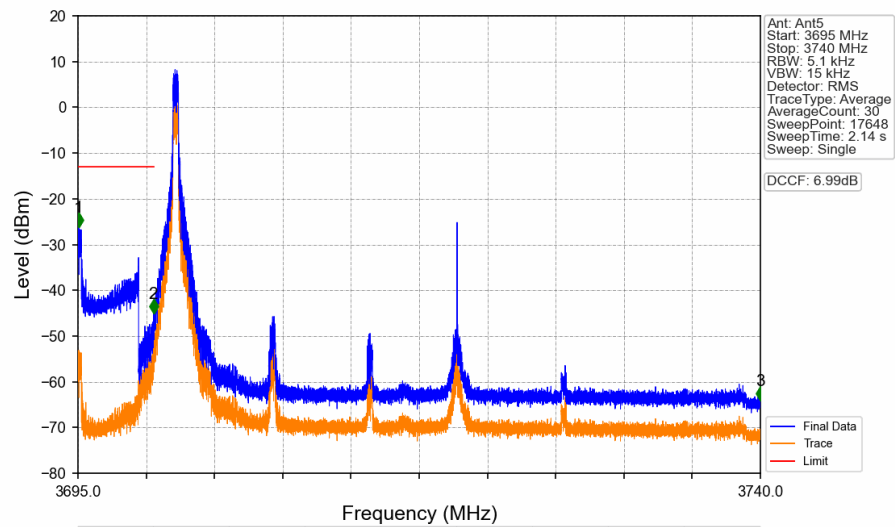


n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3720MHz Outer Full

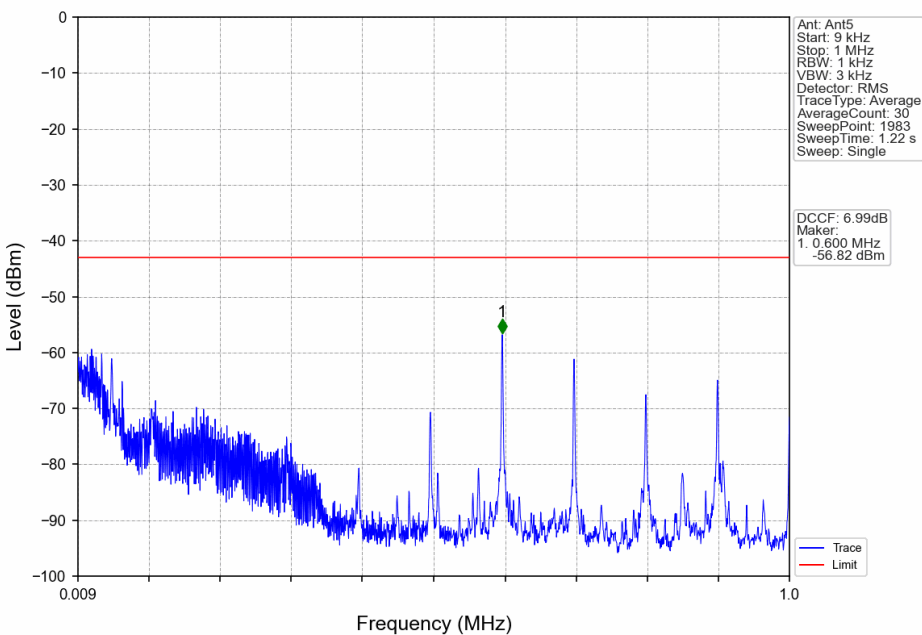


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3699	0.5	1.43	1	3695.315	-36.18	-13	Pass
3699	3700	0.36	0	2	3699.905	-35.01	-13	Pass
3700	3740	0.36	0	3	3740.000	-41.47	-13	Pass

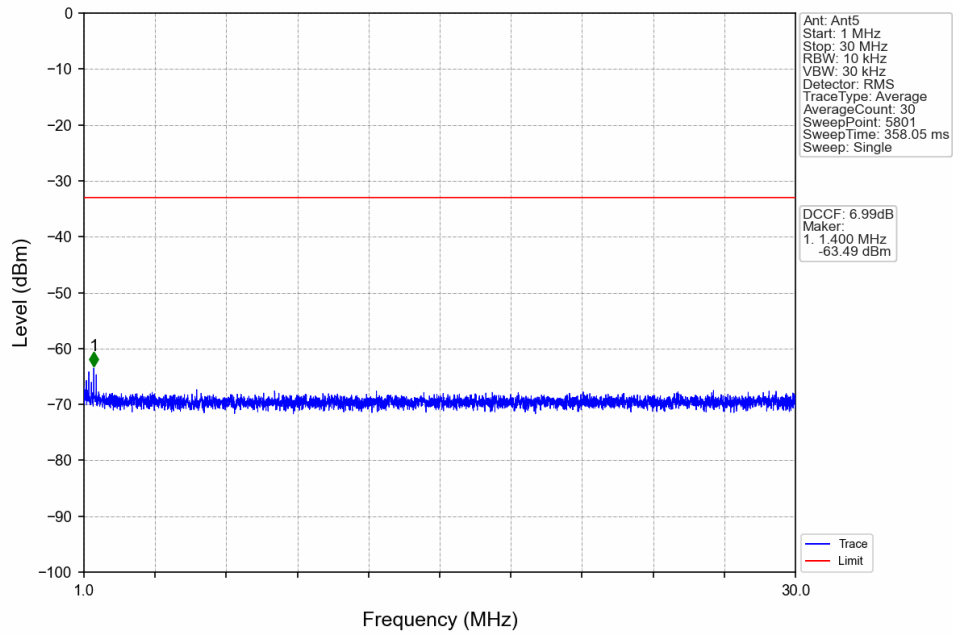
n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3720MHz Inner 1RB Left



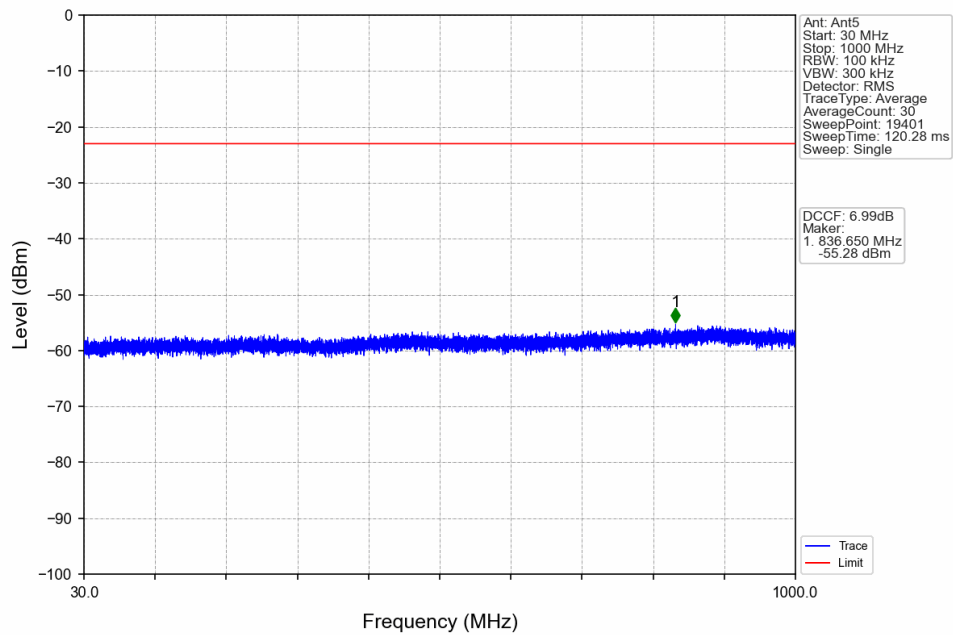
n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



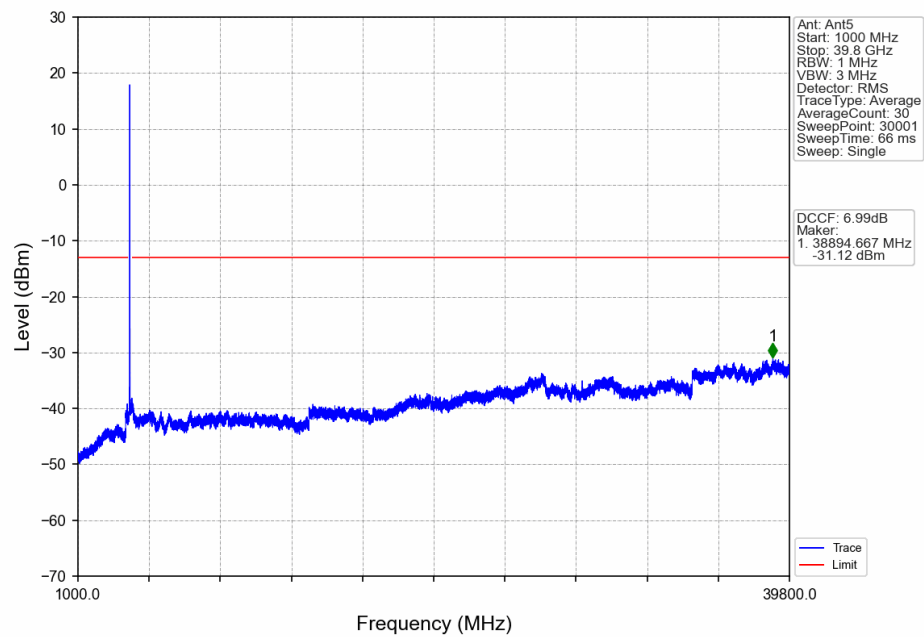
n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3840MHz Edge 1RB Left



n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3960MHz Edge 1RB Right

