

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 30k_SISO_20MHz_NTNV_EIRP

5G NR n77a SCS=30kHz SISO 20MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3710.01	Edge_1RB_Left	20.51	/	/	22.20	/	/	<=30	Pass
		Edge_1RB_Right	20.71	/	/	22.40	/	/	<=30	Pass
		Outer_Full	20.60	/	/	22.29	/	/	<=30	Pass
		Inner_Full	21.14	/	/	22.83	/	/	<=30	Pass
		Inner_1RB_Left	21.03	/	/	22.72	/	/	<=30	Pass
		Inner_1RB_Right	21.19	/	/	22.88	/	/	<=30	Pass
	3840	Edge_1RB_Left	20.32	/	/	22.01	/	/	<=30	Pass
		Edge_1RB_Right	20.29	/	/	21.98	/	/	<=30	Pass
		Outer_Full	20.31	/	/	22.00	/	/	<=30	Pass
		Inner_Full	20.84	/	/	22.53	/	/	<=30	Pass
		Inner_1RB_Left	20.85	/	/	22.54	/	/	<=30	Pass
		Inner_1RB_Right	20.80	/	/	22.49	/	/	<=30	Pass
	3969.99	Edge_1RB_Left	20.26	/	/	21.95	/	/	<=30	Pass
		Edge_1RB_Right	20.25	/	/	21.94	/	/	<=30	Pass
		Outer_Full	20.15	/	/	21.84	/	/	<=30	Pass
		Inner_Full	20.71	/	/	22.40	/	/	<=30	Pass
		Inner_1RB_Left	20.73	/	/	22.42	/	/	<=30	Pass
		Inner_1RB_Right	20.80	/	/	22.49	/	/	<=30	Pass
DFT-s-OFDM QPSK	3710.01	Edge_1RB_Left	19.97	/	/	21.66	/	/	<=30	Pass
		Edge_1RB_Right	20.19	/	/	21.88	/	/	<=30	Pass
		Outer_Full	20.03	/	/	21.72	/	/	<=30	Pass
		Inner_Full	21.11	/	/	22.80	/	/	<=30	Pass
		Inner_1RB_Left	21.02	/	/	22.71	/	/	<=30	Pass
		Inner_1RB_Right	21.20	/	/	22.89	/	/	<=30	Pass
	3840	Edge_1RB_Left	19.84	/	/	21.53	/	/	<=30	Pass
		Edge_1RB_Right	19.76	/	/	21.45	/	/	<=30	Pass
		Outer_Full	19.88	/	/	21.57	/	/	<=30	Pass
		Inner_Full	20.85	/	/	22.54	/	/	<=30	Pass
		Inner_1RB_Left	20.84	/	/	22.53	/	/	<=30	Pass
		Inner_1RB_Right	20.74	/	/	22.43	/	/	<=30	Pass
	3969.99	Edge_1RB_Left	19.66	/	/	21.35	/	/	<=30	Pass
		Edge_1RB_Right	19.73	/	/	21.42	/	/	<=30	Pass
		Outer_Full	19.63	/	/	21.32	/	/	<=30	Pass
		Inner_Full	20.62	/	/	22.31	/	/	<=30	Pass
		Inner_1RB_Left	20.73	/	/	22.42	/	/	<=30	Pass
		Inner_1RB_Right	20.77	/	/	22.46	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3710.01	Edge_1RB_Left	19.00	/	/	20.69	/	/	<=30	Pass
		Edge_1RB_Right	19.08	/	/	20.77	/	/	<=30	Pass
		Outer_Full	19.10	/	/	20.79	/	/	<=30	Pass
		Inner_Full	20.10	/	/	21.79	/	/	<=30	Pass
		Inner_1RB_Left	20.13	/	/	21.82	/	/	<=30	Pass
		Inner_1RB_Right	20.25	/	/	21.94	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.75	/	/	20.44	/	/	<=30	Pass
		Edge_1RB_Right	18.65	/	/	20.34	/	/	<=30	Pass
		Outer_Full	18.87	/	/	20.56	/	/	<=30	Pass
		Inner_Full	19.88	/	/	21.57	/	/	<=30	Pass
		Inner_1RB_Left	19.96	/	/	21.65	/	/	<=30	Pass
		Inner_1RB_Right	19.90	/	/	21.59	/	/	<=30	Pass
	3969.99	Edge_1RB_Left	18.72	/	/	20.41	/	/	<=30	Pass

		Edge_1RB_Right	18.91	/	/	20.60	/	/	<=30	Pass
		Outer_Full	18.62	/	/	20.31	/	/	<=30	Pass
		Inner_Full	19.66	/	/	21.35	/	/	<=30	Pass
		Inner_1RB_Left	19.86	/	/	21.55	/	/	<=30	Pass
		Inner_1RB_Right	19.83	/	/	21.52	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3710.01	Edge_1RB_Left	18.49	/	/	20.18	/	/	<=30	Pass
		Edge_1RB_Right	18.60	/	/	20.29	/	/	<=30	Pass
		Outer_Full	18.55	/	/	20.24	/	/	<=30	Pass
		Inner_Full	18.52	/	/	20.21	/	/	<=30	Pass
		Inner_1RB_Left	18.52	/	/	20.21	/	/	<=30	Pass
		Inner_1RB_Right	18.64	/	/	20.33	/	/	<=30	Pass
		Inner_1RB_Right	18.64	/	/	20.33	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.32	/	/	20.01	/	/	<=30	Pass
		Edge_1RB_Right	18.22	/	/	19.91	/	/	<=30	Pass
		Outer_Full	18.35	/	/	20.04	/	/	<=30	Pass
		Inner_Full	18.32	/	/	20.01	/	/	<=30	Pass
		Inner_1RB_Left	18.28	/	/	19.97	/	/	<=30	Pass
	3969.99	Inner_1RB_Right	18.20	/	/	19.89	/	/	<=30	Pass
		Edge_1RB_Left	18.14	/	/	19.83	/	/	<=30	Pass
		Edge_1RB_Right	18.20	/	/	19.89	/	/	<=30	Pass
		Outer_Full	18.10	/	/	19.79	/	/	<=30	Pass
		Inner_Full	18.11	/	/	19.80	/	/	<=30	Pass
		Inner_1RB_Left	18.18	/	/	19.87	/	/	<=30	Pass
		Inner_1RB_Right	18.26	/	/	19.95	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	3710.01	Edge_1RB_Left	16.43	/	/	18.12	/	/	<=30	Pass
		Edge_1RB_Right	16.61	/	/	18.30	/	/	<=30	Pass
		Outer_Full	16.61	/	/	18.30	/	/	<=30	Pass
		Inner_Full	16.50	/	/	18.19	/	/	<=30	Pass
		Inner_1RB_Left	16.48	/	/	18.17	/	/	<=30	Pass
		Inner_1RB_Right	16.59	/	/	18.28	/	/	<=30	Pass
		Inner_1RB_Right	16.59	/	/	18.28	/	/	<=30	Pass
	3840	Edge_1RB_Left	16.20	/	/	17.89	/	/	<=30	Pass
		Edge_1RB_Right	16.22	/	/	17.91	/	/	<=30	Pass
		Outer_Full	16.41	/	/	18.10	/	/	<=30	Pass
		Inner_Full	16.27	/	/	17.96	/	/	<=30	Pass
		Inner_1RB_Left	16.33	/	/	18.02	/	/	<=30	Pass
	3969.99	Inner_1RB_Right	16.13	/	/	17.82	/	/	<=30	Pass
		Edge_1RB_Left	16.11	/	/	17.80	/	/	<=30	Pass
		Edge_1RB_Right	16.09	/	/	17.78	/	/	<=30	Pass
		Outer_Full	16.14	/	/	17.83	/	/	<=30	Pass
		Inner_Full	16.12	/	/	17.81	/	/	<=30	Pass
		Inner_1RB_Left	16.07	/	/	17.76	/	/	<=30	Pass
		Inner_1RB_Right	16.23	/	/	17.92	/	/	<=30	Pass
CP-OFDM QPSK	3710.01	Edge_1RB_Left	18.07	/	/	19.76	/	/	<=30	Pass
		Edge_1RB_Right	18.14	/	/	19.83	/	/	<=30	Pass
		Outer_Full	18.03	/	/	19.72	/	/	<=30	Pass
		Inner_Full	19.50	/	/	21.19	/	/	<=30	Pass
		Inner_1RB_Left	19.49	/	/	21.18	/	/	<=30	Pass
		Inner_1RB_Right	19.68	/	/	21.37	/	/	<=30	Pass
	3840	Edge_1RB_Left	17.74	/	/	19.43	/	/	<=30	Pass
		Edge_1RB_Right	17.72	/	/	19.41	/	/	<=30	Pass
		Outer_Full	17.86	/	/	19.55	/	/	<=30	Pass
		Inner_Full	19.37	/	/	21.06	/	/	<=30	Pass
		Inner_1RB_Left	19.22	/	/	20.91	/	/	<=30	Pass
	3969.99	Inner_1RB_Right	19.17	/	/	20.86	/	/	<=30	Pass
		Edge_1RB_Left	17.68	/	/	19.37	/	/	<=30	Pass
		Edge_1RB_Right	17.79	/	/	19.48	/	/	<=30	Pass
		Outer_Full	17.68	/	/	19.37	/	/	<=30	Pass
		Inner_Full	19.17	/	/	20.86	/	/	<=30	Pass
		Inner_1RB_Left	19.23	/	/	20.92	/	/	<=30	Pass
		Inner_1RB_Right	19.31	/	/	21.00	/	/	<=30	Pass

CP-OFDM 16 QAM	3710.01	Edge 1RB Left	18.02	/	/	19.71	/	/	<=30	Pass
		Edge 1RB Right	18.23	/	/	19.92	/	/	<=30	Pass
		Outer_Full	18.05	/	/	19.74	/	/	<=30	Pass
		Inner_Full	19.12	/	/	20.81	/	/	<=30	Pass
		Inner 1RB Left	19.04	/	/	20.73	/	/	<=30	Pass
		Inner 1RB Right	19.17	/	/	20.86	/	/	<=30	Pass
	3840	Edge 1RB Left	17.80	/	/	19.49	/	/	<=30	Pass
		Edge 1RB Right	17.86	/	/	19.55	/	/	<=30	Pass
		Outer_Full	17.80	/	/	19.49	/	/	<=30	Pass
		Inner_Full	18.90	/	/	20.59	/	/	<=30	Pass
		Inner 1RB Left	19.02	/	/	20.71	/	/	<=30	Pass
		Inner 1RB Right	19.00	/	/	20.69	/	/	<=30	Pass
	3969.99	Edge 1RB Left	17.68	/	/	19.37	/	/	<=30	Pass
		Edge 1RB Right	17.73	/	/	19.42	/	/	<=30	Pass
		Outer_Full	17.66	/	/	19.35	/	/	<=30	Pass
		Inner_Full	18.71	/	/	20.40	/	/	<=30	Pass
		Inner 1RB Left	18.74	/	/	20.43	/	/	<=30	Pass
		Inner 1RB Right	18.84	/	/	20.53	/	/	<=30	Pass
CP-OFDM 64 QAM	3710.01	Edge 1RB Left	17.64	/	/	19.33	/	/	<=30	Pass
		Edge 1RB Right	17.73	/	/	19.42	/	/	<=30	Pass
		Outer_Full	17.45	/	/	19.14	/	/	<=30	Pass
		Inner_Full	17.52	/	/	19.21	/	/	<=30	Pass
		Inner 1RB Left	17.61	/	/	19.30	/	/	<=30	Pass
		Inner 1RB Right	17.75	/	/	19.44	/	/	<=30	Pass
	3840	Edge 1RB Left	17.32	/	/	19.01	/	/	<=30	Pass
		Edge 1RB Right	17.30	/	/	18.99	/	/	<=30	Pass
		Outer_Full	17.30	/	/	18.99	/	/	<=30	Pass
		Inner_Full	17.32	/	/	19.01	/	/	<=30	Pass
		Inner 1RB Left	17.41	/	/	19.10	/	/	<=30	Pass
		Inner 1RB Right	17.31	/	/	19.00	/	/	<=30	Pass
	3969.99	Edge 1RB Left	17.23	/	/	18.92	/	/	<=30	Pass
		Edge 1RB Right	17.35	/	/	19.04	/	/	<=30	Pass
		Outer_Full	17.15	/	/	18.84	/	/	<=30	Pass
		Inner_Full	17.13	/	/	18.82	/	/	<=30	Pass
		Inner 1RB Left	17.20	/	/	18.89	/	/	<=30	Pass
		Inner 1RB Right	17.29	/	/	18.98	/	/	<=30	Pass
CP-OFDM 256 QAM	3710.01	Edge 1RB Left	15.01	/	/	16.70	/	/	<=30	Pass
		Edge 1RB Right	15.06	/	/	16.75	/	/	<=30	Pass
		Outer_Full	14.86	/	/	16.55	/	/	<=30	Pass
		Inner_Full	14.86	/	/	16.55	/	/	<=30	Pass
		Inner 1RB Left	14.95	/	/	16.64	/	/	<=30	Pass
		Inner 1RB Right	14.99	/	/	16.68	/	/	<=30	Pass
	3840	Edge 1RB Left	14.69	/	/	16.38	/	/	<=30	Pass
		Edge 1RB Right	14.71	/	/	16.40	/	/	<=30	Pass
		Outer_Full	14.58	/	/	16.27	/	/	<=30	Pass
		Inner_Full	14.56	/	/	16.25	/	/	<=30	Pass
		Inner 1RB Left	14.72	/	/	16.41	/	/	<=30	Pass
		Inner 1RB Right	14.69	/	/	16.38	/	/	<=30	Pass
	3969.99	Edge 1RB Left	14.65	/	/	16.34	/	/	<=30	Pass
		Edge 1RB Right	14.79	/	/	16.48	/	/	<=30	Pass
		Outer_Full	14.64	/	/	16.33	/	/	<=30	Pass
		Inner_Full	14.61	/	/	16.30	/	/	<=30	Pass
		Inner 1RB Left	14.68	/	/	16.37	/	/	<=30	Pass
		Inner 1RB Right	14.67	/	/	16.36	/	/	<=30	Pass
Note1: Antenna Gain: Ant1: 1.69dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.1.2 30k_SISO_30MHz_NTNV_EIRP

5G NR n77a SCS=30kHz SISO 30MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3715.02	Edge 1RB Left	20.49	/	/	22.18	/	/	<=30	Pass
		Edge 1RB Right	20.72	/	/	22.41	/	/	<=30	Pass
		Outer Full	20.54	/	/	22.23	/	/	<=30	Pass
		Inner Full	21.07	/	/	22.76	/	/	<=30	Pass
		Inner 1RB Left	21.00	/	/	22.69	/	/	<=30	Pass
		Inner 1RB Right	21.28	/	/	22.97	/	/	<=30	Pass
	3840	Edge 1RB Left	20.39	/	/	22.08	/	/	<=30	Pass
		Edge 1RB Right	20.37	/	/	22.06	/	/	<=30	Pass
		Outer Full	20.40	/	/	22.09	/	/	<=30	Pass
		Inner Full	20.94	/	/	22.63	/	/	<=30	Pass
		Inner 1RB Left	20.90	/	/	22.59	/	/	<=30	Pass
		Inner 1RB Right	20.86	/	/	22.55	/	/	<=30	Pass
	3964.98	Edge 1RB Left	20.36	/	/	22.05	/	/	<=30	Pass
		Edge 1RB Right	20.26	/	/	21.95	/	/	<=30	Pass
		Outer Full	20.24	/	/	21.93	/	/	<=30	Pass
		Inner Full	20.67	/	/	22.36	/	/	<=30	Pass
		Inner 1RB Left	20.87	/	/	22.56	/	/	<=30	Pass
DFT-s-OFDM QPSK	3715.02	Inner 1RB Right	20.70	/	/	22.39	/	/	<=30	Pass
		Edge 1RB Left	19.97	/	/	21.66	/	/	<=30	Pass
		Edge 1RB Right	20.22	/	/	21.91	/	/	<=30	Pass
		Outer Full	20.07	/	/	21.76	/	/	<=30	Pass
		Inner Full	21.06	/	/	22.75	/	/	<=30	Pass
	3840	Inner 1RB Left	20.98	/	/	22.67	/	/	<=30	Pass
		Inner 1RB Right	21.29	/	/	22.98	/	/	<=30	Pass
		Edge 1RB Left	19.90	/	/	21.59	/	/	<=30	Pass
		Edge 1RB Right	19.88	/	/	21.57	/	/	<=30	Pass
		Outer Full	19.92	/	/	21.61	/	/	<=30	Pass
	3964.98	Inner Full	20.97	/	/	22.66	/	/	<=30	Pass
		Inner 1RB Left	20.91	/	/	22.60	/	/	<=30	Pass
		Inner 1RB Right	20.87	/	/	22.56	/	/	<=30	Pass
		Edge 1RB Left	19.77	/	/	21.46	/	/	<=30	Pass
		Edge 1RB Right	19.71	/	/	21.40	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3715.02	Outer Full	19.70	/	/	21.39	/	/	<=30	Pass
		Inner Full	20.76	/	/	22.45	/	/	<=30	Pass
		Inner 1RB Left	20.83	/	/	22.52	/	/	<=30	Pass
		Inner 1RB Right	20.67	/	/	22.36	/	/	<=30	Pass
		Edge 1RB Left	19.15	/	/	20.84	/	/	<=30	Pass
	3840	Edge 1RB Right	19.32	/	/	21.01	/	/	<=30	Pass
		Outer Full	19.10	/	/	20.79	/	/	<=30	Pass
		Inner Full	19.99	/	/	21.68	/	/	<=30	Pass
		Inner 1RB Left	20.08	/	/	21.77	/	/	<=30	Pass
		Inner 1RB Right	20.41	/	/	22.10	/	/	<=30	Pass
	3964.98	Edge 1RB Left	18.80	/	/	20.49	/	/	<=30	Pass
		Edge 1RB Right	18.66	/	/	20.35	/	/	<=30	Pass
		Outer Full	18.91	/	/	20.60	/	/	<=30	Pass
		Inner Full	19.87	/	/	21.56	/	/	<=30	Pass
		Inner 1RB Left	19.83	/	/	21.52	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3715.02	Inner 1RB Right	19.83	/	/	21.52	/	/	<=30	Pass
		Edge 1RB Left	18.87	/	/	20.56	/	/	<=30	Pass
		Edge 1RB Right	18.69	/	/	20.38	/	/	<=30	Pass
		Outer Full	18.69	/	/	20.38	/	/	<=30	Pass
		Inner Full	19.69	/	/	21.38	/	/	<=30	Pass
	3964.98	Inner 1RB Left	19.96	/	/	21.65	/	/	<=30	Pass
		Inner 1RB Right	19.81	/	/	21.50	/	/	<=30	Pass
	3715.02	Edge 1RB Left	18.59	/	/	20.28	/	/	<=30	Pass
		Edge 1RB Right	18.84	/	/	20.53	/	/	<=30	Pass

		Outer_Full	18.56	/	/	20.25	/	/	<=30	Pass
		Inner_Full	18.54	/	/	20.23	/	/	<=30	Pass
		Inner_1RB_Left	18.60	/	/	20.29	/	/	<=30	Pass
		Inner_1RB_Right	18.77	/	/	20.46	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.51	/	/	20.20	/	/	<=30	Pass
		Edge_1RB_Right	18.35	/	/	20.04	/	/	<=30	Pass
		Outer_Full	18.35	/	/	20.04	/	/	<=30	Pass
		Inner_Full	18.39	/	/	20.08	/	/	<=30	Pass
	3964.98	Inner_1RB_Left	18.36	/	/	20.05	/	/	<=30	Pass
		Inner_1RB_Right	18.26	/	/	19.95	/	/	<=30	Pass
		Edge_1RB_Left	18.31	/	/	20.00	/	/	<=30	Pass
		Edge_1RB_Right	18.22	/	/	19.91	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	3715.02	Outer_Full	18.15	/	/	19.84	/	/	<=30	Pass
		Inner_Full	18.20	/	/	19.89	/	/	<=30	Pass
		Inner_1RB_Left	18.30	/	/	19.99	/	/	<=30	Pass
		Inner_1RB_Right	18.22	/	/	19.91	/	/	<=30	Pass
	3840	Edge_1RB_Left	16.42	/	/	18.11	/	/	<=30	Pass
		Edge_1RB_Right	16.67	/	/	18.36	/	/	<=30	Pass
		Outer_Full	16.52	/	/	18.21	/	/	<=30	Pass
		Inner_Full	16.51	/	/	18.20	/	/	<=30	Pass
	3964.98	Inner_1RB_Left	16.47	/	/	18.16	/	/	<=30	Pass
		Inner_1RB_Right	16.76	/	/	18.45	/	/	<=30	Pass
		Edge_1RB_Left	16.33	/	/	18.02	/	/	<=30	Pass
		Edge_1RB_Right	16.44	/	/	18.13	/	/	<=30	Pass
CP-OFDM QPSK	3715.02	Outer_Full	16.36	/	/	18.05	/	/	<=30	Pass
		Inner_Full	16.33	/	/	18.02	/	/	<=30	Pass
		Inner_1RB_Left	16.46	/	/	18.15	/	/	<=30	Pass
		Inner_1RB_Right	16.27	/	/	17.96	/	/	<=30	Pass
	3840	Edge_1RB_Left	16.30	/	/	17.99	/	/	<=30	Pass
		Edge_1RB_Right	16.07	/	/	17.76	/	/	<=30	Pass
		Outer_Full	16.11	/	/	17.80	/	/	<=30	Pass
		Inner_Full	16.21	/	/	17.90	/	/	<=30	Pass
	3964.98	Inner_1RB_Left	16.27	/	/	17.96	/	/	<=30	Pass
		Inner_1RB_Right	16.14	/	/	17.83	/	/	<=30	Pass
		Edge_1RB_Left	18.08	/	/	19.77	/	/	<=30	Pass
		Edge_1RB_Right	18.27	/	/	19.96	/	/	<=30	Pass
CP-OFDM 16 QAM	3715.02	Outer_Full	18.20	/	/	19.89	/	/	<=30	Pass
		Inner_Full	19.55	/	/	21.24	/	/	<=30	Pass
		Inner_1RB_Left	19.41	/	/	21.10	/	/	<=30	Pass
		Inner_1RB_Right	19.73	/	/	21.42	/	/	<=30	Pass
	3840	Edge_1RB_Left	17.93	/	/	19.62	/	/	<=30	Pass
		Edge_1RB_Right	17.83	/	/	19.52	/	/	<=30	Pass
		Outer_Full	17.92	/	/	19.61	/	/	<=30	Pass
		Inner_Full	19.42	/	/	21.11	/	/	<=30	Pass
	3964.98	Inner_1RB_Left	19.42	/	/	21.11	/	/	<=30	Pass
		Inner_1RB_Right	19.30	/	/	20.99	/	/	<=30	Pass
		Edge_1RB_Left	17.88	/	/	19.57	/	/	<=30	Pass
		Edge_1RB_Right	17.66	/	/	19.35	/	/	<=30	Pass
	3715.02	Outer_Full	17.67	/	/	19.36	/	/	<=30	Pass
		Inner_Full	19.13	/	/	20.82	/	/	<=30	Pass
		Inner_1RB_Left	19.26	/	/	20.95	/	/	<=30	Pass
		Inner_1RB_Right	19.17	/	/	20.86	/	/	<=30	Pass
	3840	Edge_1RB_Left	17.98	/	/	19.67	/	/	<=30	Pass
		Edge_1RB_Right	18.26	/	/	19.95	/	/	<=30	Pass
		Outer_Full	18.15	/	/	19.84	/	/	<=30	Pass
		Inner_Full	19.05	/	/	20.74	/	/	<=30	Pass
	3840	Inner_1RB_Left	18.91	/	/	20.60	/	/	<=30	Pass
		Inner_1RB_Right	19.28	/	/	20.97	/	/	<=30	Pass
		Edge_1RB_Left	17.82	/	/	19.51	/	/	<=30	Pass

		Edge_1RB_Right	17.97	/	/	19.66	/	/	<=30	Pass
		Outer_Full	17.90	/	/	19.59	/	/	<=30	Pass
		Inner_Full	18.92	/	/	20.61	/	/	<=30	Pass
		Inner_1RB_Left	18.85	/	/	20.54	/	/	<=30	Pass
		Inner_1RB_Right	18.62	/	/	20.31	/	/	<=30	Pass
	3964.98	Edge_1RB_Left	17.84	/	/	19.53	/	/	<=30	Pass
		Edge_1RB_Right	17.65	/	/	19.34	/	/	<=30	Pass
		Outer_Full	17.73	/	/	19.42	/	/	<=30	Pass
		Inner_Full	18.67	/	/	20.36	/	/	<=30	Pass
		Inner_1RB_Left	18.71	/	/	20.40	/	/	<=30	Pass
	Inner_1RB_Right	18.59	/	/	20.28	/	/	<=30	Pass	
CP-OFDM 64 QAM	3715.02	Edge_1RB_Left	17.63	/	/	19.32	/	/	<=30	Pass
		Edge_1RB_Right	17.89	/	/	19.58	/	/	<=30	Pass
		Outer_Full	17.70	/	/	19.39	/	/	<=30	Pass
		Inner_Full	17.57	/	/	19.26	/	/	<=30	Pass
		Inner_1RB_Left	17.61	/	/	19.30	/	/	<=30	Pass
		Inner_1RB_Right	17.64	/	/	19.33	/	/	<=30	Pass
	3840	Edge_1RB_Left	17.48	/	/	19.17	/	/	<=30	Pass
		Edge_1RB_Right	17.42	/	/	19.11	/	/	<=30	Pass
		Outer_Full	17.42	/	/	19.11	/	/	<=30	Pass
		Inner_Full	17.40	/	/	19.09	/	/	<=30	Pass
		Inner_1RB_Left	17.34	/	/	19.03	/	/	<=30	Pass
		Inner_1RB_Right	17.50	/	/	19.19	/	/	<=30	Pass
	3964.98	Edge_1RB_Left	17.41	/	/	19.10	/	/	<=30	Pass
		Edge_1RB_Right	17.28	/	/	18.97	/	/	<=30	Pass
		Outer_Full	17.18	/	/	18.87	/	/	<=30	Pass
		Inner_Full	17.15	/	/	18.84	/	/	<=30	Pass
		Inner_1RB_Left	17.26	/	/	18.95	/	/	<=30	Pass
		Inner_1RB_Right	17.13	/	/	18.82	/	/	<=30	Pass
CP-OFDM 256 QAM	3715.02	Edge_1RB_Left	14.77	/	/	16.46	/	/	<=30	Pass
		Edge_1RB_Right	14.89	/	/	16.58	/	/	<=30	Pass
		Outer_Full	14.93	/	/	16.62	/	/	<=30	Pass
		Inner_Full	14.84	/	/	16.53	/	/	<=30	Pass
		Inner_1RB_Left	14.91	/	/	16.60	/	/	<=30	Pass
		Inner_1RB_Right	14.90	/	/	16.59	/	/	<=30	Pass
	3840	Edge_1RB_Left	14.70	/	/	16.39	/	/	<=30	Pass
		Edge_1RB_Right	14.76	/	/	16.45	/	/	<=30	Pass
		Outer_Full	14.66	/	/	16.35	/	/	<=30	Pass
		Inner_Full	14.66	/	/	16.35	/	/	<=30	Pass
		Inner_1RB_Left	14.73	/	/	16.42	/	/	<=30	Pass
		Inner_1RB_Right	14.64	/	/	16.33	/	/	<=30	Pass
	3964.98	Edge_1RB_Left	14.74	/	/	16.43	/	/	<=30	Pass
		Edge_1RB_Right	14.67	/	/	16.36	/	/	<=30	Pass
Outer_Full		14.70	/	/	16.39	/	/	<=30	Pass	
Inner_Full		14.71	/	/	16.40	/	/	<=30	Pass	
Inner_1RB_Left		14.84	/	/	16.53	/	/	<=30	Pass	
	Inner_1RB_Right	14.68	/	/	16.37	/	/	<=30	Pass	
Note1: Antenna Gain: Ant1: 1.69dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.1.3 30k_SISO_40MHz_NTNV_EIRP

5G NR n77a SCS=30kHz SISO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3720	Edge_1RB_Left	20.74	/	/	22.43	/	/	<=30	Pass
		Edge_1RB_Right	20.92	/	/	22.61	/	/	<=30	Pass
		Outer_Full	20.79	/	/	22.48	/	/	<=30	Pass

		Inner_Full	21.29	/	/	22.98	/	/	<=30	Pass
		Inner_1RB_Left	21.30	/	/	22.99	/	/	<=30	Pass
		Inner_1RB_Right	21.38	/	/	23.07	/	/	<=30	Pass
	3840	Edge_1RB_Left	20.56	/	/	22.25	/	/	<=30	Pass
		Edge_1RB_Right	20.30	/	/	21.99	/	/	<=30	Pass
		Outer_Full	20.42	/	/	22.11	/	/	<=30	Pass
		Inner_Full	20.92	/	/	22.61	/	/	<=30	Pass
		Inner_1RB_Left	21.13	/	/	22.82	/	/	<=30	Pass
		Inner_1RB_Right	20.85	/	/	22.54	/	/	<=30	Pass
	3960	Edge_1RB_Left	20.27	/	/	21.96	/	/	<=30	Pass
		Edge_1RB_Right	20.31	/	/	22.00	/	/	<=30	Pass
		Outer_Full	20.19	/	/	21.88	/	/	<=30	Pass
		Inner_Full	20.66	/	/	22.35	/	/	<=30	Pass
		Inner_1RB_Left	20.82	/	/	22.51	/	/	<=30	Pass
		Inner_1RB_Right	20.80	/	/	22.49	/	/	<=30	Pass
DFT-s-OFDM QPSK	3720	Edge_1RB_Left	20.22	/	/	21.91	/	/	<=30	Pass
		Edge_1RB_Right	20.37	/	/	22.06	/	/	<=30	Pass
		Outer_Full	20.32	/	/	22.01	/	/	<=30	Pass
		Inner_Full	21.22	/	/	22.91	/	/	<=30	Pass
		Inner_1RB_Left	21.27	/	/	22.96	/	/	<=30	Pass
		Inner_1RB_Right	21.37	/	/	23.06	/	/	<=30	Pass
	3840	Edge_1RB_Left	20.09	/	/	21.78	/	/	<=30	Pass
		Edge_1RB_Right	19.77	/	/	21.46	/	/	<=30	Pass
		Outer_Full	19.88	/	/	21.57	/	/	<=30	Pass
		Inner_Full	20.95	/	/	22.64	/	/	<=30	Pass
		Inner_1RB_Left	21.07	/	/	22.76	/	/	<=30	Pass
		Inner_1RB_Right	20.81	/	/	22.50	/	/	<=30	Pass
	3960	Edge_1RB_Left	19.80	/	/	21.49	/	/	<=30	Pass
		Edge_1RB_Right	19.71	/	/	21.40	/	/	<=30	Pass
		Outer_Full	19.64	/	/	21.33	/	/	<=30	Pass
		Inner_Full	20.68	/	/	22.37	/	/	<=30	Pass
		Inner_1RB_Left	20.77	/	/	22.46	/	/	<=30	Pass
		Inner_1RB_Right	20.75	/	/	22.44	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3720	Edge_1RB_Left	19.28	/	/	20.97	/	/	<=30	Pass
		Edge_1RB_Right	19.41	/	/	21.10	/	/	<=30	Pass
		Outer_Full	19.36	/	/	21.05	/	/	<=30	Pass
		Inner_Full	20.24	/	/	21.93	/	/	<=30	Pass
		Inner_1RB_Left	20.40	/	/	22.09	/	/	<=30	Pass
		Inner_1RB_Right	20.52	/	/	22.21	/	/	<=30	Pass
	3840	Edge_1RB_Left	19.06	/	/	20.75	/	/	<=30	Pass
		Edge_1RB_Right	18.83	/	/	20.52	/	/	<=30	Pass
		Outer_Full	18.86	/	/	20.55	/	/	<=30	Pass
		Inner_Full	19.93	/	/	21.62	/	/	<=30	Pass
		Inner_1RB_Left	20.22	/	/	21.91	/	/	<=30	Pass
		Inner_1RB_Right	19.93	/	/	21.62	/	/	<=30	Pass
	3960	Edge_1RB_Left	18.75	/	/	20.44	/	/	<=30	Pass
		Edge_1RB_Right	18.75	/	/	20.44	/	/	<=30	Pass
		Outer_Full	18.67	/	/	20.36	/	/	<=30	Pass
		Inner_Full	19.61	/	/	21.30	/	/	<=30	Pass
		Inner_1RB_Left	19.85	/	/	21.54	/	/	<=30	Pass
		Inner_1RB_Right	19.93	/	/	21.62	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3720	Edge_1RB_Left	18.86	/	/	20.55	/	/	<=30	Pass
		Edge_1RB_Right	18.93	/	/	20.62	/	/	<=30	Pass
		Outer_Full	18.80	/	/	20.49	/	/	<=30	Pass
		Inner_Full	18.72	/	/	20.41	/	/	<=30	Pass
		Inner_1RB_Left	18.80	/	/	20.49	/	/	<=30	Pass
		Inner_1RB_Right	18.99	/	/	20.68	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.51	/	/	20.20	/	/	<=30	Pass
		Edge_1RB_Right	18.29	/	/	19.98	/	/	<=30	Pass

		Outer_Full	18.43	/	/	20.12	/	/	<=30	Pass
		Inner_Full	18.36	/	/	20.05	/	/	<=30	Pass
		Inner_1RB_Left	18.49	/	/	20.18	/	/	<=30	Pass
		Inner_1RB_Right	18.28	/	/	19.97	/	/	<=30	Pass
	3960	Edge_1RB_Left	18.20	/	/	19.89	/	/	<=30	Pass
		Edge_1RB_Right	18.20	/	/	19.89	/	/	<=30	Pass
		Outer_Full	18.17	/	/	19.86	/	/	<=30	Pass
		Inner_Full	18.14	/	/	19.83	/	/	<=30	Pass
		Inner_1RB_Left	18.23	/	/	19.92	/	/	<=30	Pass
		Inner_1RB_Right	18.23	/	/	19.92	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	3720	Edge_1RB_Left	16.73	/	/	18.42	/	/	<=30	Pass
		Edge_1RB_Right	16.81	/	/	18.50	/	/	<=30	Pass
		Outer_Full	16.73	/	/	18.42	/	/	<=30	Pass
		Inner_Full	16.73	/	/	18.42	/	/	<=30	Pass
		Inner_1RB_Left	16.73	/	/	18.42	/	/	<=30	Pass
		Inner_1RB_Right	16.88	/	/	18.57	/	/	<=30	Pass
	3840	Edge_1RB_Left	16.61	/	/	18.30	/	/	<=30	Pass
		Edge_1RB_Right	16.34	/	/	18.03	/	/	<=30	Pass
		Outer_Full	16.38	/	/	18.07	/	/	<=30	Pass
		Inner_Full	16.46	/	/	18.15	/	/	<=30	Pass
		Inner_1RB_Left	16.53	/	/	18.22	/	/	<=30	Pass
		Inner_1RB_Right	16.31	/	/	18.00	/	/	<=30	Pass
	3960	Edge_1RB_Left	16.20	/	/	17.89	/	/	<=30	Pass
		Edge_1RB_Right	16.20	/	/	17.89	/	/	<=30	Pass
		Outer_Full	16.12	/	/	17.81	/	/	<=30	Pass
		Inner_Full	16.17	/	/	17.86	/	/	<=30	Pass
		Inner_1RB_Left	16.26	/	/	17.95	/	/	<=30	Pass
		Inner_1RB_Right	16.24	/	/	17.93	/	/	<=30	Pass
CP-OFDM QPSK	3720	Edge_1RB_Left	18.28	/	/	19.97	/	/	<=30	Pass
		Edge_1RB_Right	18.39	/	/	20.08	/	/	<=30	Pass
		Outer_Full	18.26	/	/	19.95	/	/	<=30	Pass
		Inner_Full	19.83	/	/	21.52	/	/	<=30	Pass
		Inner_1RB_Left	19.73	/	/	21.42	/	/	<=30	Pass
		Inner_1RB_Right	19.85	/	/	21.54	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.13	/	/	19.82	/	/	<=30	Pass
		Edge_1RB_Right	17.86	/	/	19.55	/	/	<=30	Pass
		Outer_Full	17.90	/	/	19.59	/	/	<=30	Pass
		Inner_Full	19.40	/	/	21.09	/	/	<=30	Pass
		Inner_1RB_Left	19.53	/	/	21.22	/	/	<=30	Pass
		Inner_1RB_Right	19.33	/	/	21.02	/	/	<=30	Pass
	3960	Edge_1RB_Left	17.70	/	/	19.39	/	/	<=30	Pass
		Edge_1RB_Right	17.70	/	/	19.39	/	/	<=30	Pass
		Outer_Full	17.63	/	/	19.32	/	/	<=30	Pass
		Inner_Full	19.22	/	/	20.91	/	/	<=30	Pass
		Inner_1RB_Left	19.23	/	/	20.92	/	/	<=30	Pass
		Inner_1RB_Right	19.17	/	/	20.86	/	/	<=30	Pass
CP-OFDM 16 QAM	3720	Edge_1RB_Left	18.36	/	/	20.05	/	/	<=30	Pass
		Edge_1RB_Right	18.27	/	/	19.96	/	/	<=30	Pass
		Outer_Full	18.26	/	/	19.95	/	/	<=30	Pass
		Inner_Full	19.25	/	/	20.94	/	/	<=30	Pass
		Inner_1RB_Left	19.15	/	/	20.84	/	/	<=30	Pass
		Inner_1RB_Right	19.30	/	/	20.99	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.22	/	/	19.91	/	/	<=30	Pass
		Edge_1RB_Right	17.81	/	/	19.50	/	/	<=30	Pass
		Outer_Full	17.88	/	/	19.57	/	/	<=30	Pass
		Inner_Full	18.89	/	/	20.58	/	/	<=30	Pass
		Inner_1RB_Left	19.05	/	/	20.74	/	/	<=30	Pass
		Inner_1RB_Right	18.77	/	/	20.46	/	/	<=30	Pass
	3960	Edge_1RB_Left	17.81	/	/	19.50	/	/	<=30	Pass

		Edge_1RB_Right	17.80	/	/	19.49	/	/	<=30	Pass
		Outer_Full	17.65	/	/	19.34	/	/	<=30	Pass
		Inner_Full	18.62	/	/	20.31	/	/	<=30	Pass
		Inner_1RB_Left	18.82	/	/	20.51	/	/	<=30	Pass
		Inner_1RB_Right	18.78	/	/	20.47	/	/	<=30	Pass
CP-OFDM 64 QAM	3720	Edge_1RB_Left	17.76	/	/	19.45	/	/	<=30	Pass
		Edge_1RB_Right	17.80	/	/	19.49	/	/	<=30	Pass
		Outer_Full	17.82	/	/	19.51	/	/	<=30	Pass
		Inner_Full	17.74	/	/	19.43	/	/	<=30	Pass
		Inner_1RB_Left	17.76	/	/	19.45	/	/	<=30	Pass
		Inner_1RB_Right	17.80	/	/	19.49	/	/	<=30	Pass
		Edge_1RB_Left	17.61	/	/	19.30	/	/	<=30	Pass
	3840	Edge_1RB_Right	17.32	/	/	19.01	/	/	<=30	Pass
		Outer_Full	17.42	/	/	19.11	/	/	<=30	Pass
		Inner_Full	17.42	/	/	19.11	/	/	<=30	Pass
		Inner_1RB_Left	17.62	/	/	19.31	/	/	<=30	Pass
		Inner_1RB_Right	17.28	/	/	18.97	/	/	<=30	Pass
		Edge_1RB_Left	17.47	/	/	19.16	/	/	<=30	Pass
	3960	Edge_1RB_Right	17.34	/	/	19.03	/	/	<=30	Pass
		Outer_Full	17.15	/	/	18.84	/	/	<=30	Pass
		Inner_Full	17.06	/	/	18.75	/	/	<=30	Pass
		Inner_1RB_Left	17.35	/	/	19.04	/	/	<=30	Pass
		Inner_1RB_Right	17.46	/	/	19.15	/	/	<=30	Pass
		Edge_1RB_Left	15.21	/	/	16.90	/	/	<=30	Pass
	CP-OFDM 256 QAM	3720	Edge_1RB_Right	15.07	/	/	16.76	/	/	<=30
Outer_Full			14.93	/	/	16.62	/	/	<=30	Pass
Inner_Full			14.96	/	/	16.65	/	/	<=30	Pass
Inner_1RB_Left			15.12	/	/	16.81	/	/	<=30	Pass
Inner_1RB_Right			15.02	/	/	16.71	/	/	<=30	Pass
Edge_1RB_Left			14.89	/	/	16.58	/	/	<=30	Pass
3840		Edge_1RB_Right	14.64	/	/	16.33	/	/	<=30	Pass
		Outer_Full	14.72	/	/	16.41	/	/	<=30	Pass
		Inner_Full	14.71	/	/	16.40	/	/	<=30	Pass
		Inner_1RB_Left	14.89	/	/	16.58	/	/	<=30	Pass
		Inner_1RB_Right	14.72	/	/	16.41	/	/	<=30	Pass
		Edge_1RB_Left	14.83	/	/	16.52	/	/	<=30	Pass
3960		Edge_1RB_Right	14.75	/	/	16.44	/	/	<=30	Pass
		Outer_Full	14.56	/	/	16.25	/	/	<=30	Pass
		Inner_Full	14.60	/	/	16.29	/	/	<=30	Pass
	Inner_1RB_Left	14.76	/	/	16.45	/	/	<=30	Pass	
	Inner_1RB_Right	14.78	/	/	16.47	/	/	<=30	Pass	
Note1: Antenna Gain: Ant1: 1.69dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.1.4 30k_SISO_60MHz_NTNV_EIRP

5G NR n77a SCS=30kHz SISO 60MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3730.02	Edge_1RB_Left	20.49	/	/	22.18	/	/	<=30	Pass
		Edge_1RB_Right	20.56	/	/	22.25	/	/	<=30	Pass
		Outer_Full	20.56	/	/	22.25	/	/	<=30	Pass
		Inner_Full	21.05	/	/	22.74	/	/	<=30	Pass
		Inner_1RB_Left	20.98	/	/	22.67	/	/	<=30	Pass
		Inner_1RB_Right	21.01	/	/	22.70	/	/	<=30	Pass
	3840	Edge_1RB_Left	20.17	/	/	21.86	/	/	<=30	Pass
		Edge_1RB_Right	20.18	/	/	21.87	/	/	<=30	Pass
		Outer_Full	20.29	/	/	21.98	/	/	<=30	Pass

		Inner_Full	20.73	/	/	22.42	/	/	<=30	Pass
		Inner_1RB_Left	20.78	/	/	22.47	/	/	<=30	Pass
		Inner_1RB_Right	20.72	/	/	22.41	/	/	<=30	Pass
	3949.98	Edge_1RB_Left	20.06	/	/	21.75	/	/	<=30	Pass
		Edge_1RB_Right	19.96	/	/	21.65	/	/	<=30	Pass
		Outer_Full	20.04	/	/	21.73	/	/	<=30	Pass
		Inner_Full	20.64	/	/	22.33	/	/	<=30	Pass
		Inner_1RB_Left	20.57	/	/	22.26	/	/	<=30	Pass
		Inner_1RB_Right	20.46	/	/	22.15	/	/	<=30	Pass
DFT-s-OFDM QPSK	3730.02	Edge_1RB_Left	19.95	/	/	21.64	/	/	<=30	Pass
		Edge_1RB_Right	20.03	/	/	21.72	/	/	<=30	Pass
		Outer_Full	20.06	/	/	21.75	/	/	<=30	Pass
		Inner_Full	21.02	/	/	22.71	/	/	<=30	Pass
		Inner_1RB_Left	21.00	/	/	22.69	/	/	<=30	Pass
		Inner_1RB_Right	21.04	/	/	22.73	/	/	<=30	Pass
	3840	Edge_1RB_Left	19.64	/	/	21.33	/	/	<=30	Pass
		Edge_1RB_Right	19.60	/	/	21.29	/	/	<=30	Pass
		Outer_Full	19.75	/	/	21.44	/	/	<=30	Pass
		Inner_Full	20.80	/	/	22.49	/	/	<=30	Pass
		Inner_1RB_Left	20.71	/	/	22.40	/	/	<=30	Pass
		Inner_1RB_Right	20.66	/	/	22.35	/	/	<=30	Pass
	3949.98	Edge_1RB_Left	19.56	/	/	21.25	/	/	<=30	Pass
		Edge_1RB_Right	19.38	/	/	21.07	/	/	<=30	Pass
		Outer_Full	19.56	/	/	21.25	/	/	<=30	Pass
		Inner_Full	20.55	/	/	22.24	/	/	<=30	Pass
		Inner_1RB_Left	20.55	/	/	22.24	/	/	<=30	Pass
		Inner_1RB_Right	20.47	/	/	22.16	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3730.02	Edge_1RB_Left	19.11	/	/	20.80	/	/	<=30	Pass
		Edge_1RB_Right	19.17	/	/	20.86	/	/	<=30	Pass
		Outer_Full	19.02	/	/	20.71	/	/	<=30	Pass
		Inner_Full	19.97	/	/	21.66	/	/	<=30	Pass
		Inner_1RB_Left	20.04	/	/	21.73	/	/	<=30	Pass
		Inner_1RB_Right	20.21	/	/	21.90	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.72	/	/	20.41	/	/	<=30	Pass
		Edge_1RB_Right	18.69	/	/	20.38	/	/	<=30	Pass
		Outer_Full	18.72	/	/	20.41	/	/	<=30	Pass
		Inner_Full	19.77	/	/	21.46	/	/	<=30	Pass
		Inner_1RB_Left	19.78	/	/	21.47	/	/	<=30	Pass
		Inner_1RB_Right	19.89	/	/	21.58	/	/	<=30	Pass
	3949.98	Edge_1RB_Left	18.74	/	/	20.43	/	/	<=30	Pass
		Edge_1RB_Right	18.62	/	/	20.31	/	/	<=30	Pass
		Outer_Full	18.59	/	/	20.28	/	/	<=30	Pass
		Inner_Full	19.55	/	/	21.24	/	/	<=30	Pass
		Inner_1RB_Left	19.67	/	/	21.36	/	/	<=30	Pass
		Inner_1RB_Right	19.49	/	/	21.18	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3730.02	Edge_1RB_Left	18.48	/	/	20.17	/	/	<=30	Pass
		Edge_1RB_Right	18.62	/	/	20.31	/	/	<=30	Pass
		Outer_Full	18.54	/	/	20.23	/	/	<=30	Pass
		Inner_Full	18.57	/	/	20.26	/	/	<=30	Pass
		Inner_1RB_Left	18.47	/	/	20.16	/	/	<=30	Pass
		Inner_1RB_Right	18.53	/	/	20.22	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.24	/	/	19.93	/	/	<=30	Pass
		Edge_1RB_Right	18.19	/	/	19.88	/	/	<=30	Pass
		Outer_Full	18.27	/	/	19.96	/	/	<=30	Pass
		Inner_Full	18.28	/	/	19.97	/	/	<=30	Pass
		Inner_1RB_Left	18.25	/	/	19.94	/	/	<=30	Pass
		Inner_1RB_Right	18.23	/	/	19.92	/	/	<=30	Pass
	3949.98	Edge_1RB_Left	18.17	/	/	19.86	/	/	<=30	Pass
		Edge_1RB_Right	17.97	/	/	19.66	/	/	<=30	Pass

		Outer_Full	18.04	/	/	19.73	/	/	<=30	Pass
		Inner_Full	18.02	/	/	19.71	/	/	<=30	Pass
		Inner_1RB_Left	18.19	/	/	19.88	/	/	<=30	Pass
		Inner_1RB_Right	18.08	/	/	19.77	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	3730.02	Edge_1RB_Left	16.37	/	/	18.06	/	/	<=30	Pass
		Edge_1RB_Right	16.45	/	/	18.14	/	/	<=30	Pass
		Outer_Full	16.55	/	/	18.24	/	/	<=30	Pass
		Inner_Full	16.49	/	/	18.18	/	/	<=30	Pass
		Inner_1RB_Left	16.37	/	/	18.06	/	/	<=30	Pass
		Inner_1RB_Right	16.44	/	/	18.13	/	/	<=30	Pass
		Edge_1RB_Left	16.17	/	/	17.86	/	/	<=30	Pass
		Edge_1RB_Right	16.14	/	/	17.83	/	/	<=30	Pass
	3840	Outer_Full	16.23	/	/	17.92	/	/	<=30	Pass
		Inner_Full	16.20	/	/	17.89	/	/	<=30	Pass
		Inner_1RB_Left	16.10	/	/	17.79	/	/	<=30	Pass
		Inner_1RB_Right	16.11	/	/	17.80	/	/	<=30	Pass
	3949.98	Edge_1RB_Left	16.04	/	/	17.73	/	/	<=30	Pass
		Edge_1RB_Right	15.88	/	/	17.57	/	/	<=30	Pass
		Outer_Full	16.05	/	/	17.74	/	/	<=30	Pass
		Inner_Full	16.01	/	/	17.70	/	/	<=30	Pass
		Inner_1RB_Left	16.13	/	/	17.82	/	/	<=30	Pass
		Inner_1RB_Right	15.91	/	/	17.60	/	/	<=30	Pass
CP-OFDM QPSK	3730.02	Edge_1RB_Left	18.04	/	/	19.73	/	/	<=30	Pass
		Edge_1RB_Right	18.12	/	/	19.81	/	/	<=30	Pass
		Outer_Full	18.08	/	/	19.77	/	/	<=30	Pass
		Inner_Full	19.54	/	/	21.23	/	/	<=30	Pass
		Inner_1RB_Left	19.54	/	/	21.23	/	/	<=30	Pass
		Inner_1RB_Right	19.51	/	/	21.20	/	/	<=30	Pass
	3840	Edge_1RB_Left	17.79	/	/	19.48	/	/	<=30	Pass
		Edge_1RB_Right	17.68	/	/	19.37	/	/	<=30	Pass
		Outer_Full	17.76	/	/	19.45	/	/	<=30	Pass
		Inner_Full	19.25	/	/	20.94	/	/	<=30	Pass
		Inner_1RB_Left	19.15	/	/	20.84	/	/	<=30	Pass
		Inner_1RB_Right	19.07	/	/	20.76	/	/	<=30	Pass
	3949.98	Edge_1RB_Left	17.64	/	/	19.33	/	/	<=30	Pass
		Edge_1RB_Right	17.46	/	/	19.15	/	/	<=30	Pass
		Outer_Full	17.52	/	/	19.21	/	/	<=30	Pass
		Inner_Full	19.04	/	/	20.73	/	/	<=30	Pass
		Inner_1RB_Left	19.11	/	/	20.80	/	/	<=30	Pass
		Inner_1RB_Right	18.88	/	/	20.57	/	/	<=30	Pass
CP-OFDM 16 QAM	3730.02	Edge_1RB_Left	17.98	/	/	19.67	/	/	<=30	Pass
		Edge_1RB_Right	18.08	/	/	19.77	/	/	<=30	Pass
		Outer_Full	18.01	/	/	19.70	/	/	<=30	Pass
		Inner_Full	18.96	/	/	20.65	/	/	<=30	Pass
		Inner_1RB_Left	19.06	/	/	20.75	/	/	<=30	Pass
		Inner_1RB_Right	19.04	/	/	20.73	/	/	<=30	Pass
	3840	Edge_1RB_Left	17.75	/	/	19.44	/	/	<=30	Pass
		Edge_1RB_Right	17.59	/	/	19.28	/	/	<=30	Pass
		Outer_Full	17.70	/	/	19.39	/	/	<=30	Pass
		Inner_Full	18.69	/	/	20.38	/	/	<=30	Pass
		Inner_1RB_Left	18.79	/	/	20.48	/	/	<=30	Pass
		Inner_1RB_Right	18.77	/	/	20.46	/	/	<=30	Pass
	3949.98	Edge_1RB_Left	17.47	/	/	19.16	/	/	<=30	Pass
		Edge_1RB_Right	17.48	/	/	19.17	/	/	<=30	Pass
		Outer_Full	17.53	/	/	19.22	/	/	<=30	Pass
		Inner_Full	18.61	/	/	20.30	/	/	<=30	Pass
		Inner_1RB_Left	18.73	/	/	20.42	/	/	<=30	Pass
		Inner_1RB_Right	18.55	/	/	20.24	/	/	<=30	Pass
CP-OFDM 64 QAM	3730.02	Edge_1RB_Left	17.55	/	/	19.24	/	/	<=30	Pass

		Edge 1RB Right	17.62	/	/	19.31	/	/	<=30	Pass
		Outer Full	17.47	/	/	19.16	/	/	<=30	Pass
		Inner Full	17.50	/	/	19.19	/	/	<=30	Pass
		Inner 1RB Left	17.54	/	/	19.23	/	/	<=30	Pass
		Inner 1RB Right	17.62	/	/	19.31	/	/	<=30	Pass
	3840	Edge 1RB Left	17.23	/	/	18.92	/	/	<=30	Pass
		Edge 1RB Right	17.12	/	/	18.81	/	/	<=30	Pass
		Outer Full	17.25	/	/	18.94	/	/	<=30	Pass
		Inner Full	17.29	/	/	18.98	/	/	<=30	Pass
		Inner 1RB Left	17.17	/	/	18.86	/	/	<=30	Pass
	3949.98	Inner 1RB Right	17.05	/	/	18.74	/	/	<=30	Pass
		Edge 1RB Left	17.14	/	/	18.83	/	/	<=30	Pass
		Edge 1RB Right	16.98	/	/	18.67	/	/	<=30	Pass
		Outer Full	17.03	/	/	18.72	/	/	<=30	Pass
		Inner Full	17.13	/	/	18.82	/	/	<=30	Pass
CP-OFDM 256 QAM	3730.02	Inner 1RB Left	17.11	/	/	18.80	/	/	<=30	Pass
		Inner 1RB Right	16.88	/	/	18.57	/	/	<=30	Pass
		Edge 1RB Left	14.93	/	/	16.62	/	/	<=30	Pass
		Edge 1RB Right	14.76	/	/	16.45	/	/	<=30	Pass
		Outer Full	14.93	/	/	16.62	/	/	<=30	Pass
		Inner Full	14.94	/	/	16.63	/	/	<=30	Pass
	3840	Inner 1RB Left	14.93	/	/	16.62	/	/	<=30	Pass
		Inner 1RB Right	14.79	/	/	16.48	/	/	<=30	Pass
		Edge 1RB Left	14.54	/	/	16.23	/	/	<=30	Pass
		Edge 1RB Right	14.47	/	/	16.16	/	/	<=30	Pass
		Outer Full	14.55	/	/	16.24	/	/	<=30	Pass
		Inner Full	14.51	/	/	16.20	/	/	<=30	Pass
	3949.98	Inner 1RB Left	14.51	/	/	16.20	/	/	<=30	Pass
		Inner 1RB Right	14.49	/	/	16.18	/	/	<=30	Pass
		Edge 1RB Left	14.51	/	/	16.20	/	/	<=30	Pass
		Edge 1RB Right	14.38	/	/	16.07	/	/	<=30	Pass
		Outer Full	14.47	/	/	16.16	/	/	<=30	Pass
		Inner Full	14.37	/	/	16.06	/	/	<=30	Pass
		Inner 1RB Left	14.51	/	/	16.20	/	/	<=30	Pass
		Inner 1RB Right	14.42	/	/	16.11	/	/	<=30	Pass
Note1: Antenna Gain: Ant1: 1.69dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.1.5 30k_SISO_80MHz_NTNV_EIRP

5G NR n77a SCS=30kHz SISO 80MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3740.01	Edge 1RB Left	20.37	/	/	22.06	/	/	<=30	Pass
		Edge 1RB Right	20.39	/	/	22.08	/	/	<=30	Pass
		Outer Full	20.55	/	/	22.24	/	/	<=30	Pass
		Inner Full	21.17	/	/	22.86	/	/	<=30	Pass
		Inner 1RB Left	20.91	/	/	22.60	/	/	<=30	Pass
		Inner 1RB Right	20.88	/	/	22.57	/	/	<=30	Pass
	3840	Edge 1RB Left	19.67	/	/	21.36	/	/	<=30	Pass
		Edge 1RB Right	19.43	/	/	21.12	/	/	<=30	Pass
		Outer Full	19.66	/	/	21.35	/	/	<=30	Pass
		Inner Full	20.62	/	/	22.31	/	/	<=30	Pass
		Inner 1RB Left	20.69	/	/	22.38	/	/	<=30	Pass
		Inner 1RB Right	20.46	/	/	22.15	/	/	<=30	Pass
	3939.99	Edge 1RB Left	19.98	/	/	21.67	/	/	<=30	Pass
		Edge 1RB Right	19.93	/	/	21.62	/	/	<=30	Pass
		Outer Full	20.00	/	/	21.69	/	/	<=30	Pass

		Inner_Full	20.63	/	/	22.32	/	/	<=30	Pass
		Inner_1RB_Left	20.51	/	/	22.20	/	/	<=30	Pass
		Inner_1RB_Right	20.42	/	/	22.11	/	/	<=30	Pass
DFT-s-OFDM QPSK	3740.01	Edge_1RB_Left	19.81	/	/	21.50	/	/	<=30	Pass
		Edge_1RB_Right	19.81	/	/	21.50	/	/	<=30	Pass
		Outer_Full	20.00	/	/	21.69	/	/	<=30	Pass
		Inner_Full	21.09	/	/	22.78	/	/	<=30	Pass
		Inner_1RB_Left	20.91	/	/	22.60	/	/	<=30	Pass
		Inner_1RB_Right	20.82	/	/	22.51	/	/	<=30	Pass
		Edge_1RB_Left	19.69	/	/	21.38	/	/	<=30	Pass
	3840	Edge_1RB_Right	19.44	/	/	21.13	/	/	<=30	Pass
		Outer_Full	19.62	/	/	21.31	/	/	<=30	Pass
		Inner_Full	20.70	/	/	22.39	/	/	<=30	Pass
		Inner_1RB_Left	20.62	/	/	22.31	/	/	<=30	Pass
		Inner_1RB_Right	20.46	/	/	22.15	/	/	<=30	Pass
	3939.99	Edge_1RB_Left	19.46	/	/	21.15	/	/	<=30	Pass
		Edge_1RB_Right	19.34	/	/	21.03	/	/	<=30	Pass
		Outer_Full	19.45	/	/	21.14	/	/	<=30	Pass
		Inner_Full	20.59	/	/	22.28	/	/	<=30	Pass
		Inner_1RB_Left	20.49	/	/	22.18	/	/	<=30	Pass
		Inner_1RB_Right	20.36	/	/	22.05	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3740.01	Edge_1RB_Left	18.85	/	/	20.54	/	/	<=30	Pass
		Edge_1RB_Right	18.82	/	/	20.51	/	/	<=30	Pass
		Outer_Full	19.03	/	/	20.72	/	/	<=30	Pass
		Inner_Full	20.11	/	/	21.80	/	/	<=30	Pass
		Inner_1RB_Left	19.90	/	/	21.59	/	/	<=30	Pass
		Inner_1RB_Right	19.88	/	/	21.57	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.66	/	/	20.35	/	/	<=30	Pass
		Edge_1RB_Right	18.48	/	/	20.17	/	/	<=30	Pass
		Outer_Full	18.58	/	/	20.27	/	/	<=30	Pass
		Inner_Full	19.60	/	/	21.29	/	/	<=30	Pass
		Inner_1RB_Left	19.73	/	/	21.42	/	/	<=30	Pass
	3939.99	Inner_1RB_Right	19.50	/	/	21.19	/	/	<=30	Pass
		Edge_1RB_Left	18.45	/	/	20.14	/	/	<=30	Pass
		Edge_1RB_Right	18.39	/	/	20.08	/	/	<=30	Pass
		Outer_Full	18.53	/	/	20.22	/	/	<=30	Pass
		Inner_Full	19.45	/	/	21.14	/	/	<=30	Pass
		Inner_1RB_Left	19.61	/	/	21.30	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3740.01	Inner_1RB_Right	19.49	/	/	21.18	/	/	<=30	Pass
		Edge_1RB_Left	18.31	/	/	20.00	/	/	<=30	Pass
		Edge_1RB_Right	18.28	/	/	19.97	/	/	<=30	Pass
		Outer_Full	18.54	/	/	20.23	/	/	<=30	Pass
		Inner_Full	18.62	/	/	20.31	/	/	<=30	Pass
		Inner_1RB_Left	18.31	/	/	20.00	/	/	<=30	Pass
	3840	Inner_1RB_Right	18.21	/	/	19.90	/	/	<=30	Pass
		Edge_1RB_Left	18.10	/	/	19.79	/	/	<=30	Pass
		Edge_1RB_Right	17.89	/	/	19.58	/	/	<=30	Pass
		Outer_Full	18.14	/	/	19.83	/	/	<=30	Pass
		Inner_Full	18.04	/	/	19.73	/	/	<=30	Pass
		Inner_1RB_Left	18.11	/	/	19.80	/	/	<=30	Pass
	3939.99	Inner_1RB_Right	17.87	/	/	19.56	/	/	<=30	Pass
		Edge_1RB_Left	17.95	/	/	19.64	/	/	<=30	Pass
		Edge_1RB_Right	17.85	/	/	19.54	/	/	<=30	Pass
		Outer_Full	18.03	/	/	19.72	/	/	<=30	Pass
		Inner_Full	17.97	/	/	19.66	/	/	<=30	Pass
		Inner_1RB_Left	17.99	/	/	19.68	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	3740.01	Inner_1RB_Right	17.89	/	/	19.58	/	/	<=30	Pass
		Edge_1RB_Left	16.43	/	/	18.12	/	/	<=30	Pass
		Edge_1RB_Right	16.26	/	/	17.95	/	/	<=30	Pass

		Outer_Full	16.60	/	/	18.29	/	/	<=30	Pass
		Inner_Full	16.59	/	/	18.28	/	/	<=30	Pass
		Inner_1RB_Left	16.37	/	/	18.06	/	/	<=30	Pass
		Inner_1RB_Right	16.25	/	/	17.94	/	/	<=30	Pass
	3840	Edge_1RB_Left	16.09	/	/	17.78	/	/	<=30	Pass
		Edge_1RB_Right	15.91	/	/	17.60	/	/	<=30	Pass
		Outer_Full	16.12	/	/	17.81	/	/	<=30	Pass
		Inner_Full	16.10	/	/	17.79	/	/	<=30	Pass
		Inner_1RB_Left	16.15	/	/	17.84	/	/	<=30	Pass
		Inner_1RB_Right	15.89	/	/	17.58	/	/	<=30	Pass
	3939.99	Edge_1RB_Left	16.00	/	/	17.69	/	/	<=30	Pass
		Edge_1RB_Right	15.85	/	/	17.54	/	/	<=30	Pass
		Outer_Full	16.00	/	/	17.69	/	/	<=30	Pass
		Inner_Full	16.01	/	/	17.70	/	/	<=30	Pass
		Inner_1RB_Left	16.04	/	/	17.73	/	/	<=30	Pass
CP-OFDM QPSK	3740.01	Inner_1RB_Right	15.82	/	/	17.51	/	/	<=30	Pass
		Edge_1RB_Left	17.94	/	/	19.63	/	/	<=30	Pass
		Edge_1RB_Right	17.92	/	/	19.61	/	/	<=30	Pass
		Outer_Full	18.06	/	/	19.75	/	/	<=30	Pass
		Inner_Full	19.60	/	/	21.29	/	/	<=30	Pass
	3840	Inner_1RB_Left	19.51	/	/	21.20	/	/	<=30	Pass
		Inner_1RB_Right	19.31	/	/	21.00	/	/	<=30	Pass
		Edge_1RB_Left	17.72	/	/	19.41	/	/	<=30	Pass
		Edge_1RB_Right	17.47	/	/	19.16	/	/	<=30	Pass
		Outer_Full	17.65	/	/	19.34	/	/	<=30	Pass
	3939.99	Inner_Full	19.12	/	/	20.81	/	/	<=30	Pass
		Inner_1RB_Left	19.29	/	/	20.98	/	/	<=30	Pass
		Inner_1RB_Right	19.06	/	/	20.75	/	/	<=30	Pass
		Edge_1RB_Left	17.53	/	/	19.22	/	/	<=30	Pass
		Edge_1RB_Right	17.35	/	/	19.04	/	/	<=30	Pass
CP-OFDM 16 QAM	3740.01	Outer_Full	17.54	/	/	19.23	/	/	<=30	Pass
		Inner_Full	19.06	/	/	20.75	/	/	<=30	Pass
		Inner_1RB_Left	19.01	/	/	20.70	/	/	<=30	Pass
		Inner_1RB_Right	19.05	/	/	20.74	/	/	<=30	Pass
		Edge_1RB_Left	17.93	/	/	19.62	/	/	<=30	Pass
	3840	Edge_1RB_Right	17.86	/	/	19.55	/	/	<=30	Pass
		Outer_Full	18.06	/	/	19.75	/	/	<=30	Pass
		Inner_Full	19.09	/	/	20.78	/	/	<=30	Pass
		Inner_1RB_Left	18.77	/	/	20.46	/	/	<=30	Pass
		Inner_1RB_Right	18.80	/	/	20.49	/	/	<=30	Pass
	3939.99	Edge_1RB_Left	17.70	/	/	19.39	/	/	<=30	Pass
		Edge_1RB_Right	17.57	/	/	19.26	/	/	<=30	Pass
		Outer_Full	17.66	/	/	19.35	/	/	<=30	Pass
		Inner_Full	18.61	/	/	20.30	/	/	<=30	Pass
		Inner_1RB_Left	18.77	/	/	20.46	/	/	<=30	Pass
CP-OFDM 64 QAM	3740.01	Inner_1RB_Right	18.35	/	/	20.04	/	/	<=30	Pass
		Edge_1RB_Left	17.44	/	/	19.13	/	/	<=30	Pass
		Edge_1RB_Right	17.28	/	/	18.97	/	/	<=30	Pass
		Outer_Full	17.48	/	/	19.17	/	/	<=30	Pass
		Inner_Full	18.53	/	/	20.22	/	/	<=30	Pass
	3840	Inner_1RB_Left	18.44	/	/	20.13	/	/	<=30	Pass
		Inner_1RB_Right	18.19	/	/	19.88	/	/	<=30	Pass
		Edge_1RB_Left	17.41	/	/	19.10	/	/	<=30	Pass
		Edge_1RB_Right	17.31	/	/	19.00	/	/	<=30	Pass
		Outer_Full	17.51	/	/	19.20	/	/	<=30	Pass
	3939.99	Inner_Full	17.65	/	/	19.34	/	/	<=30	Pass
		Inner_1RB_Left	17.37	/	/	19.06	/	/	<=30	Pass
		Inner_1RB_Right	17.33	/	/	19.02	/	/	<=30	Pass
	3740.01	Edge_1RB_Left	17.16	/	/	18.85	/	/	<=30	Pass
		Edge_1RB_Right	17.16	/	/	18.85	/	/	<=30	Pass
		Outer_Full	17.16	/	/	18.85	/	/	<=30	Pass
	3840	Inner_Full	17.16	/	/	18.85	/	/	<=30	Pass
		Inner_1RB_Left	17.16	/	/	18.85	/	/	<=30	Pass
		Inner_1RB_Right	17.16	/	/	18.85	/	/	<=30	Pass
	3939.99	Edge_1RB_Left	17.16	/	/	18.85	/	/	<=30	Pass
		Edge_1RB_Right	17.16	/	/	18.85	/	/	<=30	Pass
		Outer_Full	17.16	/	/	18.85	/	/	<=30	Pass
	3840	Inner_Full	17.16	/	/	18.85	/	/	<=30	Pass
		Inner_1RB_Left	17.16	/	/	18.85	/	/	<=30	Pass
		Inner_1RB_Right	17.16	/	/	18.85	/	/	<=30	Pass

		Edge 1RB Right	16.87	/	/	18.56	/	/	<=30	Pass
		Outer Full	17.18	/	/	18.87	/	/	<=30	Pass
		Inner Full	17.11	/	/	18.80	/	/	<=30	Pass
		Inner 1RB Left	17.25	/	/	18.94	/	/	<=30	Pass
		Inner 1RB Right	16.97	/	/	18.66	/	/	<=30	Pass
	3939.99	Edge 1RB Left	16.92	/	/	18.61	/	/	<=30	Pass
		Edge 1RB Right	16.80	/	/	18.49	/	/	<=30	Pass
		Outer Full	17.00	/	/	18.69	/	/	<=30	Pass
		Inner Full	16.99	/	/	18.68	/	/	<=30	Pass
		Inner 1RB Left	16.89	/	/	18.58	/	/	<=30	Pass
		Inner 1RB Right	16.77	/	/	18.46	/	/	<=30	Pass
CP-OFDM 256 QAM	3740.01	Edge 1RB Left	14.77	/	/	16.46	/	/	<=30	Pass
		Edge 1RB Right	14.53	/	/	16.22	/	/	<=30	Pass
		Outer Full	14.73	/	/	16.42	/	/	<=30	Pass
		Inner Full	14.77	/	/	16.46	/	/	<=30	Pass
		Inner 1RB Left	14.77	/	/	16.46	/	/	<=30	Pass
		Inner 1RB Right	14.47	/	/	16.16	/	/	<=30	Pass
	3840	Edge 1RB Left	14.52	/	/	16.21	/	/	<=30	Pass
		Edge 1RB Right	14.34	/	/	16.03	/	/	<=30	Pass
		Outer Full	14.30	/	/	15.99	/	/	<=30	Pass
		Inner Full	14.37	/	/	16.06	/	/	<=30	Pass
		Inner 1RB Left	14.48	/	/	16.17	/	/	<=30	Pass
		Inner 1RB Right	14.28	/	/	15.97	/	/	<=30	Pass
	3939.99	Edge 1RB Left	14.44	/	/	16.13	/	/	<=30	Pass
		Edge 1RB Right	14.37	/	/	16.06	/	/	<=30	Pass
		Outer Full	14.36	/	/	16.05	/	/	<=30	Pass
		Inner Full	14.42	/	/	16.11	/	/	<=30	Pass
		Inner 1RB Left	14.46	/	/	16.15	/	/	<=30	Pass
		Inner 1RB Right	14.28	/	/	15.97	/	/	<=30	Pass
Note1: Antenna Gain: Ant1: 1.69dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.1.6 30k_SISO_100MHz_NTNV_EIRP

5G NR n77a SCS=30kHz SISO 100MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3750	Edge 1RB Left	20.32	/	/	22.01	/	/	<=30	Pass
		Edge 1RB Right	20.35	/	/	22.04	/	/	<=30	Pass
		Outer Full	20.48	/	/	22.17	/	/	<=30	Pass
		Inner Full	21.10	/	/	22.79	/	/	<=30	Pass
		Inner 1RB Left	20.92	/	/	22.61	/	/	<=30	Pass
	3840	Inner 1RB Right	20.90	/	/	22.59	/	/	<=30	Pass
		Edge 1RB Left	20.19	/	/	21.88	/	/	<=30	Pass
		Edge 1RB Right	20.06	/	/	21.75	/	/	<=30	Pass
		Outer Full	20.16	/	/	21.85	/	/	<=30	Pass
		Inner Full	20.64	/	/	22.33	/	/	<=30	Pass
	3930	Inner 1RB Left	20.68	/	/	22.37	/	/	<=30	Pass
		Inner 1RB Right	20.57	/	/	22.26	/	/	<=30	Pass
		Edge 1RB Left	19.93	/	/	21.62	/	/	<=30	Pass
		Edge 1RB Right	19.82	/	/	21.51	/	/	<=30	Pass
		Outer Full	19.87	/	/	21.56	/	/	<=30	Pass
DFT-s-OFDM QPSK	3750	Inner Full	20.61	/	/	22.30	/	/	<=30	Pass
		Inner 1RB Left	20.46	/	/	22.15	/	/	<=30	Pass
		Inner 1RB Right	20.38	/	/	22.07	/	/	<=30	Pass
		Edge 1RB Left	19.79	/	/	21.48	/	/	<=30	Pass
	3750	Edge 1RB Right	19.83	/	/	21.52	/	/	<=30	Pass
		Outer Full	20.02	/	/	21.71	/	/	<=30	Pass

		Inner_Full	21.16	/	/	22.85	/	/	<=30	Pass
		Inner_1RB_Left	20.86	/	/	22.55	/	/	<=30	Pass
		Inner_1RB_Right	20.91	/	/	22.60	/	/	<=30	Pass
	3840	Edge_1RB_Left	19.64	/	/	21.33	/	/	<=30	Pass
		Edge_1RB_Right	19.53	/	/	21.22	/	/	<=30	Pass
		Outer_Full	19.63	/	/	21.32	/	/	<=30	Pass
		Inner_Full	20.63	/	/	22.32	/	/	<=30	Pass
		Inner_1RB_Left	20.67	/	/	22.36	/	/	<=30	Pass
		Inner_1RB_Right	20.57	/	/	22.26	/	/	<=30	Pass
	3930	Edge_1RB_Left	19.41	/	/	21.10	/	/	<=30	Pass
		Edge_1RB_Right	19.42	/	/	21.11	/	/	<=30	Pass
		Outer_Full	19.37	/	/	21.06	/	/	<=30	Pass
		Inner_Full	20.60	/	/	22.29	/	/	<=30	Pass
		Inner_1RB_Left	20.44	/	/	22.13	/	/	<=30	Pass
		Inner_1RB_Right	20.38	/	/	22.07	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3750	Edge_1RB_Left	18.95	/	/	20.64	/	/	<=30	Pass
		Edge_1RB_Right	18.94	/	/	20.63	/	/	<=30	Pass
		Outer_Full	19.07	/	/	20.76	/	/	<=30	Pass
		Inner_Full	20.12	/	/	21.81	/	/	<=30	Pass
		Inner_1RB_Left	19.90	/	/	21.59	/	/	<=30	Pass
		Inner_1RB_Right	19.92	/	/	21.61	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.61	/	/	20.30	/	/	<=30	Pass
		Edge_1RB_Right	18.39	/	/	20.08	/	/	<=30	Pass
		Outer_Full	18.68	/	/	20.37	/	/	<=30	Pass
		Inner_Full	19.61	/	/	21.30	/	/	<=30	Pass
		Inner_1RB_Left	19.79	/	/	21.48	/	/	<=30	Pass
		Inner_1RB_Right	19.68	/	/	21.37	/	/	<=30	Pass
	3930	Edge_1RB_Left	18.46	/	/	20.15	/	/	<=30	Pass
		Edge_1RB_Right	18.53	/	/	20.22	/	/	<=30	Pass
		Outer_Full	18.42	/	/	20.11	/	/	<=30	Pass
		Inner_Full	19.62	/	/	21.31	/	/	<=30	Pass
		Inner_1RB_Left	19.48	/	/	21.17	/	/	<=30	Pass
		Inner_1RB_Right	19.47	/	/	21.16	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3750	Edge_1RB_Left	18.40	/	/	20.09	/	/	<=30	Pass
		Edge_1RB_Right	18.40	/	/	20.09	/	/	<=30	Pass
		Outer_Full	18.49	/	/	20.18	/	/	<=30	Pass
		Inner_Full	18.63	/	/	20.32	/	/	<=30	Pass
		Inner_1RB_Left	18.41	/	/	20.10	/	/	<=30	Pass
		Inner_1RB_Right	18.38	/	/	20.07	/	/	<=30	Pass
	3840	Edge_1RB_Left	18.10	/	/	19.79	/	/	<=30	Pass
		Edge_1RB_Right	18.01	/	/	19.70	/	/	<=30	Pass
		Outer_Full	18.17	/	/	19.86	/	/	<=30	Pass
		Inner_Full	18.08	/	/	19.77	/	/	<=30	Pass
		Inner_1RB_Left	18.09	/	/	19.78	/	/	<=30	Pass
		Inner_1RB_Right	18.02	/	/	19.71	/	/	<=30	Pass
	3930	Edge_1RB_Left	17.93	/	/	19.62	/	/	<=30	Pass
		Edge_1RB_Right	17.87	/	/	19.56	/	/	<=30	Pass
		Outer_Full	17.98	/	/	19.67	/	/	<=30	Pass
		Inner_Full	18.05	/	/	19.74	/	/	<=30	Pass
		Inner_1RB_Left	17.98	/	/	19.67	/	/	<=30	Pass
		Inner_1RB_Right	18.01	/	/	19.70	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	3750	Edge_1RB_Left	16.35	/	/	18.04	/	/	<=30	Pass
		Edge_1RB_Right	16.39	/	/	18.08	/	/	<=30	Pass
		Outer_Full	16.52	/	/	18.21	/	/	<=30	Pass
		Inner_Full	16.62	/	/	18.31	/	/	<=30	Pass
		Inner_1RB_Left	16.42	/	/	18.11	/	/	<=30	Pass
		Inner_1RB_Right	16.38	/	/	18.07	/	/	<=30	Pass
	3840	Edge_1RB_Left	16.16	/	/	17.85	/	/	<=30	Pass
		Edge_1RB_Right	16.04	/	/	17.73	/	/	<=30	Pass

		Outer_Full	16.07	/	/	17.76	/	/	<=30	Pass
		Inner_Full	16.00	/	/	17.69	/	/	<=30	Pass
		Inner_1RB_Left	16.21	/	/	17.90	/	/	<=30	Pass
		Inner_1RB_Right	15.98	/	/	17.67	/	/	<=30	Pass
	3930	Edge_1RB_Left	15.88	/	/	17.57	/	/	<=30	Pass
		Edge_1RB_Right	15.94	/	/	17.63	/	/	<=30	Pass
		Outer_Full	15.86	/	/	17.55	/	/	<=30	Pass
		Inner_Full	16.09	/	/	17.78	/	/	<=30	Pass
		Inner_1RB_Left	15.88	/	/	17.57	/	/	<=30	Pass
		Inner_1RB_Right	15.95	/	/	17.64	/	/	<=30	Pass
CP-OFDM QPSK	3750	Edge_1RB_Left	17.95	/	/	19.64	/	/	<=30	Pass
		Edge_1RB_Right	17.86	/	/	19.55	/	/	<=30	Pass
		Outer_Full	18.02	/	/	19.71	/	/	<=30	Pass
		Inner_Full	19.57	/	/	21.26	/	/	<=30	Pass
		Inner_1RB_Left	19.42	/	/	21.11	/	/	<=30	Pass
		Inner_1RB_Right	19.35	/	/	21.04	/	/	<=30	Pass
	3840	Edge_1RB_Left	17.68	/	/	19.37	/	/	<=30	Pass
		Edge_1RB_Right	17.60	/	/	19.29	/	/	<=30	Pass
		Outer_Full	17.60	/	/	19.29	/	/	<=30	Pass
		Inner_Full	19.09	/	/	20.78	/	/	<=30	Pass
		Inner_1RB_Left	19.18	/	/	20.87	/	/	<=30	Pass
		Inner_1RB_Right	19.05	/	/	20.74	/	/	<=30	Pass
	3930	Edge_1RB_Left	17.50	/	/	19.19	/	/	<=30	Pass
		Edge_1RB_Right	17.41	/	/	19.10	/	/	<=30	Pass
		Outer_Full	17.54	/	/	19.23	/	/	<=30	Pass
		Inner_Full	19.02	/	/	20.71	/	/	<=30	Pass
		Inner_1RB_Left	18.94	/	/	20.63	/	/	<=30	Pass
		Inner_1RB_Right	19.09	/	/	20.78	/	/	<=30	Pass
CP-OFDM 16 QAM	3750	Edge_1RB_Left	17.92	/	/	19.61	/	/	<=30	Pass
		Edge_1RB_Right	17.81	/	/	19.50	/	/	<=30	Pass
		Outer_Full	18.00	/	/	19.69	/	/	<=30	Pass
		Inner_Full	19.10	/	/	20.79	/	/	<=30	Pass
		Inner_1RB_Left	18.81	/	/	20.50	/	/	<=30	Pass
		Inner_1RB_Right	18.79	/	/	20.48	/	/	<=30	Pass
	3840	Edge_1RB_Left	17.70	/	/	19.39	/	/	<=30	Pass
		Edge_1RB_Right	17.53	/	/	19.22	/	/	<=30	Pass
		Outer_Full	17.66	/	/	19.35	/	/	<=30	Pass
		Inner_Full	18.56	/	/	20.25	/	/	<=30	Pass
		Inner_1RB_Left	18.54	/	/	20.23	/	/	<=30	Pass
		Inner_1RB_Right	18.48	/	/	20.17	/	/	<=30	Pass
	3930	Edge_1RB_Left	17.38	/	/	19.07	/	/	<=30	Pass
		Edge_1RB_Right	17.39	/	/	19.08	/	/	<=30	Pass
		Outer_Full	17.56	/	/	19.25	/	/	<=30	Pass
		Inner_Full	18.55	/	/	20.24	/	/	<=30	Pass
		Inner_1RB_Left	18.47	/	/	20.16	/	/	<=30	Pass
		Inner_1RB_Right	18.46	/	/	20.15	/	/	<=30	Pass
CP-OFDM 64 QAM	3750	Edge_1RB_Left	17.49	/	/	19.18	/	/	<=30	Pass
		Edge_1RB_Right	17.43	/	/	19.12	/	/	<=30	Pass
		Outer_Full	17.60	/	/	19.29	/	/	<=30	Pass
		Inner_Full	17.63	/	/	19.32	/	/	<=30	Pass
		Inner_1RB_Left	17.50	/	/	19.19	/	/	<=30	Pass
		Inner_1RB_Right	17.49	/	/	19.18	/	/	<=30	Pass
	3840	Edge_1RB_Left	17.24	/	/	18.93	/	/	<=30	Pass
		Edge_1RB_Right	17.17	/	/	18.86	/	/	<=30	Pass
		Outer_Full	17.21	/	/	18.90	/	/	<=30	Pass
		Inner_Full	17.07	/	/	18.76	/	/	<=30	Pass
		Inner_1RB_Left	17.33	/	/	19.02	/	/	<=30	Pass
		Inner_1RB_Right	17.13	/	/	18.82	/	/	<=30	Pass
	3930	Edge_1RB_Left	16.97	/	/	18.66	/	/	<=30	Pass

		Edge 1RB Right	16.96	/	/	18.65	/	/	<=30	Pass	
		Outer Full	17.08	/	/	18.77	/	/	<=30	Pass	
		Inner Full	17.07	/	/	18.76	/	/	<=30	Pass	
		Inner 1RB Left	16.99	/	/	18.68	/	/	<=30	Pass	
		Inner 1RB Right	17.06	/	/	18.75	/	/	<=30	Pass	
CP-OFDM 256 QAM	3750	Edge 1RB Left	14.85	/	/	16.54	/	/	<=30	Pass	
		Edge 1RB Right	14.55	/	/	16.24	/	/	<=30	Pass	
		Outer Full	14.70	/	/	16.39	/	/	<=30	Pass	
		Inner Full	14.74	/	/	16.43	/	/	<=30	Pass	
		Inner 1RB Left	14.84	/	/	16.53	/	/	<=30	Pass	
		Inner 1RB Right	14.64	/	/	16.33	/	/	<=30	Pass	
	3840	Edge 1RB Left	14.51	/	/	16.20	/	/	<=30	Pass	
		Edge 1RB Right	14.55	/	/	16.24	/	/	<=30	Pass	
		Outer Full	14.39	/	/	16.08	/	/	<=30	Pass	
		Inner Full	14.32	/	/	16.01	/	/	<=30	Pass	
		Inner 1RB Left	14.50	/	/	16.19	/	/	<=30	Pass	
		Inner 1RB Right	14.56	/	/	16.25	/	/	<=30	Pass	
	3930	Edge 1RB Left	14.55	/	/	16.24	/	/	<=30	Pass	
		Edge 1RB Right	14.46	/	/	16.15	/	/	<=30	Pass	
		Outer Full	14.32	/	/	16.01	/	/	<=30	Pass	
		Inner Full	14.36	/	/	16.05	/	/	<=30	Pass	
		Inner 1RB Left	14.51	/	/	16.20	/	/	<=30	Pass	
		Inner 1RB Right	14.46	/	/	16.15	/	/	<=30	Pass	
	Note1: Antenna Gain: Ant1: 1.69dBi; Note2: EIRP=Conducted Power+Antenna Gain										

2. Frequency Stability

2.1 Test Result

2.1.1 30k_SISO_20MHz

5G NR n77a SCS=30kHz SISO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	4.40	0.0011	>=-2.5 & <=2.5	Pass
				HV	7.60	0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-3.50	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	2.60	0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	7.70	0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			10	NV	13.80	0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	9.60	0.0025	>=-2.5 & <=2.5	Pass
			40	NV	7.80	0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	10.90	0.0028	>=-2.5 & <=2.5	Pass
				HV	20.30	0.0053	>=-2.5 & <=2.5	Pass
			-30	NV	7.40	0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-12.30	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	7.50	0.0020	>=-2.5 & <=2.5	Pass
			0	NV	9.60	0.0025	>=-2.5 & <=2.5	Pass
			10	NV	10.30	0.0027	>=-2.5 & <=2.5	Pass
			20	NV	12.10	0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-12.50	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	10.50	0.0027	>=-2.5 & <=2.5	Pass

			50	NV	-6.00	-0.0016	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	4.60	0.0012	≥ -2.5 & ≤ 2.5	Pass
				HV	20.70	0.0054	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	19.40	0.0051	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	7.80	0.0020	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	2.40	0.0006	≥ -2.5 & ≤ 2.5	Pass
			0	NV	4.40	0.0011	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-6.30	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			20	NV	8.40	0.0022	≥ -2.5 & ≤ 2.5	Pass
			30	NV	5.10	0.0013	≥ -2.5 & ≤ 2.5	Pass
			40	NV	8.40	0.0022	≥ -2.5 & ≤ 2.5	Pass
			50	NV	6.80	0.0018	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	14.30	0.0037	≥ -2.5 & ≤ 2.5	Pass
				HV	9.20	0.0024	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	2.90	0.0008	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	11.80	0.0031	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	8.00	0.0021	≥ -2.5 & ≤ 2.5	Pass
			0	NV	9.80	0.0026	≥ -2.5 & ≤ 2.5	Pass
			10	NV	7.70	0.0020	≥ -2.5 & ≤ 2.5	Pass
			20	NV	12.50	0.0033	≥ -2.5 & ≤ 2.5	Pass
			30	NV	11.50	0.0030	≥ -2.5 & ≤ 2.5	Pass
			40	NV	8.20	0.0021	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-4.40	-0.0011	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	8.10	0.0021	≥ -2.5 & ≤ 2.5	Pass
				HV	-11.00	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	4.40	0.0011	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	11.50	0.0030	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	10.60	0.0028	≥ -2.5 & ≤ 2.5	Pass
			0	NV	4.80	0.0013	≥ -2.5 & ≤ 2.5	Pass
			10	NV	11.20	0.0029	≥ -2.5 & ≤ 2.5	Pass
			20	NV	8.10	0.0021	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.50	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			40	NV	15.40	0.0040	≥ -2.5 & ≤ 2.5	Pass
			50	NV	3.30	0.0009	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	-9.30	-0.0024	≥ -2.5 & ≤ 2.5	Pass
				HV	1.40	0.0004	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	12.80	0.0033	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	10.80	0.0028	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	11.80	0.0031	≥ -2.5 & ≤ 2.5	Pass
			0	NV	14.70	0.0038	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-2.00	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			20	NV	19.10	0.0050	≥ -2.5 & ≤ 2.5	Pass
			30	NV	6.80	0.0018	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-13.70	-0.0036	≥ -2.5 & ≤ 2.5	Pass
			50	NV	10.50	0.0027	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	15.70	0.0041	≥ -2.5 & ≤ 2.5	Pass
				HV	4.70	0.0012	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	7.40	0.0019	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	6.00	0.0016	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	13.00	0.0034	≥ -2.5 & ≤ 2.5	Pass
			0	NV	8.60	0.0022	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.80	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-2.20	-0.0006	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.10	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			40	NV	4.80	0.0013	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-3.20	-0.0008	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	5.90	0.0015	≥ -2.5 & ≤ 2.5	Pass
				HV	-10.00	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-1.60	-0.0004	≥ -2.5 & ≤ 2.5	Pass

			-20	NV	14.10	0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-6.70	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	6.40	0.0017	>=-2.5 & <=2.5	Pass
			20	NV	5.40	0.0014	>=-2.5 & <=2.5	Pass
			30	NV	4.20	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	12.80	0.0033	>=-2.5 & <=2.5	Pass
			50	NV	19.20	0.0050	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-10.50	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	19.40	0.0051	>=-2.5 & <=2.5	Pass
			-20	NV	-4.10	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	7.70	0.0020	>=-2.5 & <=2.5	Pass
			10	NV	13.00	0.0034	>=-2.5 & <=2.5	Pass
			20	NV	8.20	0.0021	>=-2.5 & <=2.5	Pass
			30	NV	7.80	0.0020	>=-2.5 & <=2.5	Pass
			40	NV	3.60	0.0009	>=-2.5 & <=2.5	Pass
			50	NV	4.30	0.0011	>=-2.5 & <=2.5	Pass

2.1.2 30k_SISO_30MHz

5G NR n77a SCS=30kHz SISO 30MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	-3.10	-0.0008	>=-2.5 & <=2.5	Pass
				HV	11.70	0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	11.20	0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	7.00	0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-7.10	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	1.30	0.0003	>=-2.5 & <=2.5	Pass
			10	NV	8.00	0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-10.60	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-10.70	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-9.00	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	6.90	0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	8.70	0.0023	>=-2.5 & <=2.5	Pass
				HV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-8.00	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	14.70	0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	6.70	0.0017	>=-2.5 & <=2.5	Pass
			0	NV	6.20	0.0016	>=-2.5 & <=2.5	Pass
			10	NV	16.20	0.0042	>=-2.5 & <=2.5	Pass
			20	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-11.10	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	18.10	0.0047	>=-2.5 & <=2.5	Pass
			50	NV	5.60	0.0015	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	4.00	0.0010	>=-2.5 & <=2.5	Pass
				HV	10.80	0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	7.90	0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	2.40	0.0006	>=-2.5 & <=2.5	Pass
			0	NV	6.90	0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-2.10	-0.0005	>=-2.5 & <=2.5	Pass
			20	NV	13.60	0.0035	>=-2.5 & <=2.5	Pass
			30	NV	1.80	0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-6.50	-0.0017	>=-2.5 & <=2.5	Pass

			50	NV	12.90	0.0034	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	9.80	0.0026	≥ -2.5 & ≤ 2.5	Pass
				HV	-7.30	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	5.90	0.0015	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	6.80	0.0018	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	4.20	0.0011	≥ -2.5 & ≤ 2.5	Pass
			0	NV	13.40	0.0035	≥ -2.5 & ≤ 2.5	Pass
			10	NV	6.60	0.0017	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-5.80	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-5.70	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-6.40	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-5.10	-0.0013	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	7.90	0.0021	≥ -2.5 & ≤ 2.5	Pass
				HV	10.10	0.0026	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	20.60	0.0054	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-3.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			0	NV	3.70	0.0010	≥ -2.5 & ≤ 2.5	Pass
			10	NV	10.60	0.0028	≥ -2.5 & ≤ 2.5	Pass
			20	NV	7.00	0.0018	≥ -2.5 & ≤ 2.5	Pass
			30	NV	4.80	0.0013	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-4.10	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			50	NV	18.40	0.0048	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	-12.70	-0.0033	≥ -2.5 & ≤ 2.5	Pass
				HV	1.30	0.0003	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-7.20	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	8.20	0.0021	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-18.50	-0.0048	≥ -2.5 & ≤ 2.5	Pass
			0	NV	4.00	0.0010	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-9.30	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			20	NV	10.60	0.0028	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-5.60	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			40	NV	14.30	0.0037	≥ -2.5 & ≤ 2.5	Pass
			50	NV	10.20	0.0027	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-2.70	-0.0007	≥ -2.5 & ≤ 2.5	Pass
				HV	-10.70	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-12.40	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-7.30	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-14.40	-0.0038	≥ -2.5 & ≤ 2.5	Pass
			0	NV	8.70	0.0023	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			20	NV	18.90	0.0049	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-5.90	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			40	NV	3.90	0.0010	≥ -2.5 & ≤ 2.5	Pass
			50	NV	7.50	0.0020	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-4.70	-0.0012	≥ -2.5 & ≤ 2.5	Pass
				HV	3.20	0.0008	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-5.90	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	7.40	0.0019	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-6.10	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-12.10	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-4.70	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.80	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			30	NV	6.70	0.0017	≥ -2.5 & ≤ 2.5	Pass
			40	NV	10.60	0.0028	≥ -2.5 & ≤ 2.5	Pass
			50	NV	9.30	0.0024	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-16.70	-0.0043	≥ -2.5 & ≤ 2.5	Pass
				HV	16.20	0.0042	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	3.90	0.0010	≥ -2.5 & ≤ 2.5	Pass

			-20	NV	-4.30	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-11.20	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-15.50	-0.0040	>=-2.5 & <=2.5	Pass
			10	NV	-1.50	-0.0004	>=-2.5 & <=2.5	Pass
			20	NV	-5.70	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	5.10	0.0013	>=-2.5 & <=2.5	Pass
			40	NV	10.70	0.0028	>=-2.5 & <=2.5	Pass
			50	NV	6.90	0.0018	>=-2.5 & <=2.5	Pass

2.1.3 30k_SISO_40MHz

5G NR n77a SCS=30kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	2.90	0.0008	>=-2.5 & <=2.5	Pass
				HV	5.70	0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	6.30	0.0016	>=-2.5 & <=2.5	Pass
			10	NV	8.50	0.0022	>=-2.5 & <=2.5	Pass
			20	NV	5.10	0.0013	>=-2.5 & <=2.5	Pass
			30	NV	9.90	0.0026	>=-2.5 & <=2.5	Pass
			40	NV	8.80	0.0023	>=-2.5 & <=2.5	Pass
			50	NV	15.70	0.0041	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
				HV	5.60	0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	4.60	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-6.70	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	12.90	0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-0.70	-0.0002	>=-2.5 & <=2.5	Pass
			10	NV	-5.50	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	12.70	0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0017	>=-2.5 & <=2.5	Pass
			50	NV	12.20	0.0032	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	12.40	0.0032	>=-2.5 & <=2.5	Pass
				HV	4.70	0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	8.60	0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	6.50	0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	14.40	0.0038	>=-2.5 & <=2.5	Pass
			0	NV	5.10	0.0013	>=-2.5 & <=2.5	Pass
			10	NV	6.40	0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-5.00	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	1.40	0.0004	>=-2.5 & <=2.5	Pass
			40	NV	8.90	0.0023	>=-2.5 & <=2.5	Pass
			50	NV	11.70	0.0030	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	15.40	0.0040	>=-2.5 & <=2.5	Pass
				HV	10.10	0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-2.00	-0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	-9.20	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-4.30	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	13.90	0.0036	>=-2.5 & <=2.5	Pass
			10	NV	6.10	0.0016	>=-2.5 & <=2.5	Pass
			20	NV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			30	NV	9.40	0.0024	>=-2.5 & <=2.5	Pass
			40	NV	2.90	0.0008	>=-2.5 & <=2.5	Pass

			50	NV	14.90	0.0039	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	-6.50	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-1.50	-0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	2.50	0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	10.00	0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	12.90	0.0034	>=-2.5 & <=2.5	Pass
			0	NV	9.00	0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-8.90	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	8.00	0.0021	>=-2.5 & <=2.5	Pass
			30	NV	11.40	0.0030	>=-2.5 & <=2.5	Pass
			40	NV	8.10	0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-8.30	-0.0022	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	-7.60	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-10.70	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-3.60	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-11.40	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-11.70	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-5.00	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	5.70	0.0015	>=-2.5 & <=2.5	Pass
			20	NV	8.80	0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-8.10	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-3.90	-0.0010	>=-2.5 & <=2.5	Pass
			50	NV	4.30	0.0011	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
				HV	15.20	0.0040	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	11.40	0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	7.90	0.0021	>=-2.5 & <=2.5	Pass
			0	NV	14.00	0.0036	>=-2.5 & <=2.5	Pass
			10	NV	10.70	0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-6.20	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	17.00	0.0044	>=-2.5 & <=2.5	Pass
			50	NV	7.60	0.0020	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-8.60	-0.0022	>=-2.5 & <=2.5	Pass
				HV	5.10	0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-12.30	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	5.10	0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	5.10	0.0013	>=-2.5 & <=2.5	Pass
			0	NV	12.00	0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-8.30	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	1.40	0.0004	>=-2.5 & <=2.5	Pass
			30	NV	-2.80	-0.0007	>=-2.5 & <=2.5	Pass
			40	NV	6.50	0.0017	>=-2.5 & <=2.5	Pass
			50	NV	10.60	0.0028	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
				HV	8.10	0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-2.80	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-8.00	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	4.60	0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	8.60	0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-6.90	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-7.90	-0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-16.40	-0.0043	>=-2.5 & <=2.5	Pass

2.1.4 30k_SISO_60MHz

5G NR n77a SCS=30kHz SISO 60MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	-7.80	-0.0020	>=-2.5 & <=2.5	Pass
				HV	8.20	0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	9.30	0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	12.00	0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	6.00	0.0016	>=-2.5 & <=2.5	Pass
			0	NV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			10	NV	7.90	0.0021	>=-2.5 & <=2.5	Pass
			20	NV	6.50	0.0017	>=-2.5 & <=2.5	Pass
			30	NV	2.00	0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-5.70	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	5.30	0.0014	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	4.20	0.0011	>=-2.5 & <=2.5	Pass
				HV	2.00	0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	18.80	0.0049	>=-2.5 & <=2.5	Pass
			-20	NV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	5.70	0.0015	>=-2.5 & <=2.5	Pass
			10	NV	9.10	0.0024	>=-2.5 & <=2.5	Pass
			20	NV	10.60	0.0028	>=-2.5 & <=2.5	Pass
			30	NV	9.20	0.0024	>=-2.5 & <=2.5	Pass
			40	NV	11.20	0.0029	>=-2.5 & <=2.5	Pass
			50	NV	4.40	0.0011	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	13.50	0.0035	>=-2.5 & <=2.5	Pass
				HV	7.70	0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	3.60	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	7.70	0.0020	>=-2.5 & <=2.5	Pass
			0	NV	9.80	0.0026	>=-2.5 & <=2.5	Pass
			10	NV	3.40	0.0009	>=-2.5 & <=2.5	Pass
			20	NV	10.90	0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	6.00	0.0016	>=-2.5 & <=2.5	Pass
			50	NV	15.60	0.0041	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	21.50	0.0056	>=-2.5 & <=2.5	Pass
				HV	13.70	0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-7.00	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	8.90	0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			10	NV	11.30	0.0029	>=-2.5 & <=2.5	Pass
			20	NV	5.60	0.0015	>=-2.5 & <=2.5	Pass
			30	NV	14.80	0.0039	>=-2.5 & <=2.5	Pass
			40	NV	13.70	0.0036	>=-2.5 & <=2.5	Pass
			50	NV	2.90	0.0008	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	5.40	0.0014	>=-2.5 & <=2.5	Pass
				HV	14.70	0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	8.00	0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-11.20	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			0	NV	0.80	0.0002	>=-2.5 & <=2.5	Pass
			10	NV	8.70	0.0023	>=-2.5 & <=2.5	Pass
			20	NV	12.40	0.0032	>=-2.5 & <=2.5	Pass
			30	NV	11.80	0.0031	>=-2.5 & <=2.5	Pass
			40	NV	11.10	0.0029	>=-2.5 & <=2.5	Pass
			50	NV	4.30	0.0011	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	20.10	0.0052	>=-2.5 & <=2.5	Pass

				HV	19.00	0.0049	>=-2.5 & <=2.5	Pass
			-30	NV	12.50	0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	4.50	0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	9.50	0.0025	>=-2.5 & <=2.5	Pass
			0	NV	6.80	0.0018	>=-2.5 & <=2.5	Pass
			10	NV	13.80	0.0036	>=-2.5 & <=2.5	Pass
			20	NV	8.90	0.0023	>=-2.5 & <=2.5	Pass
			30	NV	8.10	0.0021	>=-2.5 & <=2.5	Pass
			40	NV	7.80	0.0020	>=-2.5 & <=2.5	Pass
			50	NV	10.10	0.0026	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-11.30	-0.0029	>=-2.5 & <=2.5	Pass
				HV	9.10	0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	8.70	0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	14.40	0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	7.30	0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	3.20	0.0008	>=-2.5 & <=2.5	Pass
			20	NV	17.00	0.0044	>=-2.5 & <=2.5	Pass
			30	NV	-10.70	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-0.50	-0.0001	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	12.40	0.0032	>=-2.5 & <=2.5	Pass
				HV	5.00	0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	11.50	0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	8.00	0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	2.00	0.0005	>=-2.5 & <=2.5	Pass
			10	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			20	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			40	NV	14.00	0.0036	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-7.90	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-1.50	-0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	2.40	0.0006	>=-2.5 & <=2.5	Pass
			-20	NV	1.70	0.0004	>=-2.5 & <=2.5	Pass
			-10	NV	-13.50	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	8.30	0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-6.00	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	5.70	0.0015	>=-2.5 & <=2.5	Pass
			30	NV	1.90	0.0005	>=-2.5 & <=2.5	Pass
			40	NV	15.20	0.0040	>=-2.5 & <=2.5	Pass
			50	NV	-4.00	-0.0010	>=-2.5 & <=2.5	Pass

2.1.5 30k_SISO_80MHz

5G NR n77a SCS=30kHz SISO 80MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	17.30	0.0045	>=-2.5 & <=2.5	Pass
				HV	22.80	0.0059	>=-2.5 & <=2.5	Pass
			-30	NV	16.20	0.0042	>=-2.5 & <=2.5	Pass
			-20	NV	16.10	0.0042	>=-2.5 & <=2.5	Pass
			-10	NV	-6.20	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-8.10	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-7.30	-0.0019	>=-2.5 & <=2.5	Pass

			30	NV	3.40	0.0009	>=-2.5 & <=2.5	Pass
			40	NV	11.80	0.0031	>=-2.5 & <=2.5	Pass
			50	NV	7.10	0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	13.40	0.0035	>=-2.5 & <=2.5	Pass
				HV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	7.60	0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	1.90	0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	5.50	0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	6.60	0.0017	>=-2.5 & <=2.5	Pass
			20	NV	15.40	0.0040	>=-2.5 & <=2.5	Pass
			30	NV	11.00	0.0029	>=-2.5 & <=2.5	Pass
			40	NV	6.70	0.0017	>=-2.5 & <=2.5	Pass
			50	NV	3.20	0.0008	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	12.80	0.0033	>=-2.5 & <=2.5	Pass
				HV	3.30	0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	3.10	0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	5.60	0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	3.30	0.0009	>=-2.5 & <=2.5	Pass
			0	NV	11.70	0.0030	>=-2.5 & <=2.5	Pass
			10	NV	9.10	0.0024	>=-2.5 & <=2.5	Pass
			20	NV	10.10	0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-6.10	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	12.60	0.0033	>=-2.5 & <=2.5	Pass
			50	NV	4.20	0.0011	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	9.60	0.0025	>=-2.5 & <=2.5	Pass
				HV	8.60	0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	4.90	0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	11.80	0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	11.10	0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	25.90	0.0067	>=-2.5 & <=2.5	Pass
			20	NV	-5.70	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	6.30	0.0016	>=-2.5 & <=2.5	Pass
			40	NV	5.30	0.0014	>=-2.5 & <=2.5	Pass
			50	NV	6.60	0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	10.00	0.0026	>=-2.5 & <=2.5	Pass
				HV	8.00	0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	14.30	0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-3.90	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			0	NV	-6.50	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	7.90	0.0021	>=-2.5 & <=2.5	Pass
			30	NV	15.40	0.0040	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0017	>=-2.5 & <=2.5	Pass
			50	NV	16.50	0.0043	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	-7.70	-0.0020	>=-2.5 & <=2.5	Pass
				HV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	14.00	0.0036	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-6.10	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	3.80	0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-13.80	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-6.90	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-5.90	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-8.20	-0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-8.10	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	8.40	0.0022	>=-2.5 & <=2.5	Pass

				HV	9.30	0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	13.00	0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	9.70	0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-10.80	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	8.60	0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-1.70	-0.0004	>=-2.5 & <=2.5	Pass
			20	NV	-11.20	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-2.00	-0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-1.80	-0.0005	>=-2.5 & <=2.5	Pass
				HV	-2.80	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	15.90	0.0041	>=-2.5 & <=2.5	Pass
			-20	NV	9.00	0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	4.60	0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-6.30	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	4.00	0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-3.50	-0.0009	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	16.40	0.0043	>=-2.5 & <=2.5	Pass
				HV	-2.10	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	-8.70	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	10.20	0.0027	>=-2.5 & <=2.5	Pass
			0	NV	3.60	0.0009	>=-2.5 & <=2.5	Pass
			10	NV	0.70	0.0002	>=-2.5 & <=2.5	Pass
			20	NV	2.60	0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-6.90	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-6.20	-0.0016	>=-2.5 & <=2.5	Pass
			50	NV	13.20	0.0034	>=-2.5 & <=2.5	Pass

2.1.6 30k_SISO_100MHz

5G NR n77a SCS=30kHz SISO 100MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	12.70	0.0033	>=-2.5 & <=2.5	Pass
				HV	10.50	0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	13.00	0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	17.60	0.0046	>=-2.5 & <=2.5	Pass
			-10	NV	12.00	0.0031	>=-2.5 & <=2.5	Pass
			0	NV	11.80	0.0031	>=-2.5 & <=2.5	Pass
			10	NV	13.90	0.0036	>=-2.5 & <=2.5	Pass
			20	NV	13.40	0.0035	>=-2.5 & <=2.5	Pass
			30	NV	11.90	0.0031	>=-2.5 & <=2.5	Pass
			40	NV	10.30	0.0027	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	9.30	0.0024	>=-2.5 & <=2.5	Pass
				HV	14.60	0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	12.70	0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	9.90	0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	5.90	0.0015	>=-2.5 & <=2.5	Pass
			0	NV	11.50	0.0030	>=-2.5 & <=2.5	Pass
			10	NV	8.50	0.0022	>=-2.5 & <=2.5	Pass
			20	NV	7.30	0.0019	>=-2.5 & <=2.5	Pass

			30	NV	19.10	0.0050	>=-2.5 & <=2.5	Pass
			40	NV	6.30	0.0016	>=-2.5 & <=2.5	Pass
			50	NV	2.20	0.0006	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	7.60	0.0020	>=-2.5 & <=2.5	Pass
				HV	6.90	0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	20.40	0.0053	>=-2.5 & <=2.5	Pass
			-20	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	8.70	0.0023	>=-2.5 & <=2.5	Pass
			0	NV	12.30	0.0032	>=-2.5 & <=2.5	Pass
			10	NV	17.00	0.0044	>=-2.5 & <=2.5	Pass
			20	NV	23.00	0.0060	>=-2.5 & <=2.5	Pass
			30	NV	12.90	0.0034	>=-2.5 & <=2.5	Pass
			40	NV	12.00	0.0031	>=-2.5 & <=2.5	Pass
			50	NV	13.60	0.0035	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	2.40	0.0006	>=-2.5 & <=2.5	Pass
				HV	7.40	0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	5.30	0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	19.20	0.0050	>=-2.5 & <=2.5	Pass
			-10	NV	5.90	0.0015	>=-2.5 & <=2.5	Pass
			0	NV	10.30	0.0027	>=-2.5 & <=2.5	Pass
			10	NV	12.40	0.0032	>=-2.5 & <=2.5	Pass
			20	NV	17.30	0.0045	>=-2.5 & <=2.5	Pass
			30	NV	15.40	0.0040	>=-2.5 & <=2.5	Pass
			40	NV	4.30	0.0011	>=-2.5 & <=2.5	Pass
			50	NV	17.60	0.0046	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	11.00	0.0029	>=-2.5 & <=2.5	Pass
				HV	12.80	0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	6.00	0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	19.80	0.0052	>=-2.5 & <=2.5	Pass
			-10	NV	14.20	0.0037	>=-2.5 & <=2.5	Pass
			0	NV	13.30	0.0035	>=-2.5 & <=2.5	Pass
			10	NV	10.70	0.0028	>=-2.5 & <=2.5	Pass
			20	NV	4.10	0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-2.30	-0.0006	>=-2.5 & <=2.5	Pass
			40	NV	9.30	0.0024	>=-2.5 & <=2.5	Pass
			50	NV	10.50	0.0027	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	10.70	0.0028	>=-2.5 & <=2.5	Pass
				HV	-2.00	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	14.90	0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	4.50	0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	4.90	0.0013	>=-2.5 & <=2.5	Pass
			0	NV	4.70	0.0012	>=-2.5 & <=2.5	Pass
			10	NV	16.40	0.0043	>=-2.5 & <=2.5	Pass
			20	NV	-4.00	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-4.50	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
			50	NV	10.10	0.0026	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
				HV	5.50	0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	9.80	0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	0.80	0.0002	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	14.00	0.0036	>=-2.5 & <=2.5	Pass
			10	NV	7.90	0.0021	>=-2.5 & <=2.5	Pass
			20	NV	16.80	0.0044	>=-2.5 & <=2.5	Pass
			30	NV	5.20	0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	6.90	0.0018	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	14.40	0.0038	>=-2.5 & <=2.5	Pass

				HV	5.90	0.0015	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	11.70	0.0030	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-6.30	-0.0016	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	9.80	0.0026	≥ -2.5 & ≤ 2.5	Pass
			0	NV	8.50	0.0022	≥ -2.5 & ≤ 2.5	Pass
			10	NV	12.10	0.0032	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-4.20	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			30	NV	5.40	0.0014	≥ -2.5 & ≤ 2.5	Pass
			40	NV	3.70	0.0010	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	50	NV	6.20	0.0016	≥ -2.5 & ≤ 2.5	Pass
			20	LV	-3.10	-0.0008	≥ -2.5 & ≤ 2.5	Pass
				HV	7.90	0.0021	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	11.40	0.0030	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	11.00	0.0029	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	6.20	0.0016	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-1.80	-0.0005	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-2.60	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-10.40	-0.0027	≥ -2.5 & ≤ 2.5	Pass
			30	NV	7.80	0.0020	≥ -2.5 & ≤ 2.5	Pass
			40	NV	8.70	0.0023	≥ -2.5 & ≤ 2.5	Pass
			50	NV	8.50	0.0022	≥ -2.5 & ≤ 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 30k_SISO_20MHz_NTNV

5G NR n77a SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3710.01	Outer_Full	18.13	19.70	/	Pass
	3840	Outer_Full	18.15	19.55	/	Pass
	3969.99	Outer_Full	18.12	19.52	/	Pass
DFT-s-OFDM QPSK	3710.01	Outer_Full	18.08	19.53	/	Pass
	3840	Outer_Full	18.04	19.47	/	Pass
	3969.99	Outer_Full	18.14	19.62	/	Pass
DFT-s-OFDM 16 QAM	3710.01	Outer_Full	18.12	19.54	/	Pass
	3840	Outer_Full	18.13	19.72	/	Pass
	3969.99	Outer_Full	18.14	19.65	/	Pass
DFT-s-OFDM 64 QAM	3710.01	Outer_Full	18.05	19.70	/	Pass
	3840	Outer_Full	18.09	19.67	/	Pass
	3969.99	Outer_Full	18.13	19.48	/	Pass
DFT-s-OFDM 256 QAM	3710.01	Outer_Full	18.06	19.52	/	Pass
	3840	Outer_Full	18.10	19.60	/	Pass
	3969.99	Outer_Full	18.06	19.57	/	Pass
CP-OFDM QPSK	3710.01	Outer_Full	18.39	19.82	/	Pass
	3840	Outer_Full	18.40	19.79	/	Pass
	3969.99	Outer_Full	18.43	19.87	/	Pass
CP-OFDM 16 QAM	3710.01	Outer_Full	18.40	19.97	/	Pass
	3840	Outer_Full	18.40	19.90	/	Pass
	3969.99	Outer_Full	18.50	20.01	/	Pass
CP-OFDM 64 QAM	3710.01	Outer_Full	18.36	19.77	/	Pass
	3840	Outer_Full	18.35	19.94	/	Pass
	3969.99	Outer_Full	18.31	19.85	/	Pass
CP-OFDM 256 QAM	3710.01	Outer_Full	18.36	19.98	/	Pass

	3840	Outer_Full	18.43	19.64	/	Pass
	3969.99	Outer_Full	18.40	19.91	/	Pass

3.1.2 30k_SISO_30MHz_NTNV

5G NR n77a SCS=30kHz SISO 30MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3715.02	Outer_Full	27.07	28.99	/	Pass
	3840	Outer_Full	27.18	28.85	/	Pass
	3964.98	Outer_Full	27.10	29.08	/	Pass
DFT-s-OFDM QPSK	3715.02	Outer_Full	27.11	29.05	/	Pass
	3840	Outer_Full	27.18	29.11	/	Pass
	3964.98	Outer_Full	27.13	29.32	/	Pass
DFT-s-OFDM 16 QAM	3715.02	Outer_Full	27.12	29.12	/	Pass
	3840	Outer_Full	27.14	29.13	/	Pass
	3964.98	Outer_Full	27.12	29.07	/	Pass
DFT-s-OFDM 64 QAM	3715.02	Outer_Full	27.02	29.04	/	Pass
	3840	Outer_Full	27.07	29.13	/	Pass
	3964.98	Outer_Full	27.11	28.99	/	Pass
DFT-s-OFDM 256 QAM	3715.02	Outer_Full	27.06	28.97	/	Pass
	3840	Outer_Full	27.20	29.10	/	Pass
	3964.98	Outer_Full	27.11	29.23	/	Pass
CP-OFDM QPSK	3715.02	Outer_Full	28.07	30.14	/	Pass
	3840	Outer_Full	28.06	29.89	/	Pass
	3964.98	Outer_Full	28.17	30.21	/	Pass
CP-OFDM 16 QAM	3715.02	Outer_Full	28.07	30.09	/	Pass
	3840	Outer_Full	28.08	30.10	/	Pass
	3964.98	Outer_Full	28.16	30.22	/	Pass
CP-OFDM 64 QAM	3715.02	Outer_Full	28.14	30.18	/	Pass
	3840	Outer_Full	28.13	30.04	/	Pass
	3964.98	Outer_Full	28.12	30.18	/	Pass
CP-OFDM 256 QAM	3715.02	Outer_Full	28.15	30.33	/	Pass
	3840	Outer_Full	28.01	30.16	/	Pass
	3964.98	Outer_Full	28.09	30.16	/	Pass

3.1.3 30k_SISO_40MHz_NTNV

5G NR n77a SCS=30kHz SISO 40MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3720	Outer_Full	36.07	38.70	/	Pass
	3840	Outer_Full	36.12	38.64	/	Pass
	3960	Outer_Full	36.09	38.75	/	Pass
DFT-s-OFDM QPSK	3720	Outer_Full	36.06	38.70	/	Pass
	3840	Outer_Full	36.02	38.53	/	Pass
	3960	Outer_Full	36.07	38.77	/	Pass
DFT-s-OFDM 16 QAM	3720	Outer_Full	35.99	38.59	/	Pass
	3840	Outer_Full	36.00	38.66	/	Pass
	3960	Outer_Full	36.05	38.69	/	Pass
DFT-s-OFDM 64 QAM	3720	Outer_Full	36.12	38.77	/	Pass
	3840	Outer_Full	36.02	38.69	/	Pass
	3960	Outer_Full	36.10	38.68	/	Pass
DFT-s-OFDM 256 QAM	3720	Outer_Full	35.90	38.59	/	Pass
	3840	Outer_Full	36.04	38.75	/	Pass
	3960	Outer_Full	35.99	38.83	/	Pass

CP-OFDM QPSK	3720	Outer_Full	38.11	40.69	/	Pass
	3840	Outer_Full	38.10	40.73	/	Pass
	3960	Outer_Full	38.09	40.73	/	Pass
CP-OFDM 16 QAM	3720	Outer_Full	38.09	40.71	/	Pass
	3840	Outer_Full	38.23	40.76	/	Pass
	3960	Outer_Full	38.33	40.85	/	Pass
CP-OFDM 64 QAM	3720	Outer_Full	38.13	40.68	/	Pass
	3840	Outer_Full	38.22	40.65	/	Pass
	3960	Outer_Full	38.08	40.77	/	Pass
CP-OFDM 256 QAM	3720	Outer_Full	38.05	40.59	/	Pass
	3840	Outer_Full	38.09	40.80	/	Pass
	3960	Outer_Full	38.06	40.94	/	Pass

3.1.4 30k_SISO_60MHz_NTNV

5G NR n77a SCS=30kHz SISO 60MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3730.02	Outer_Full	58.56	62.21	/	Pass
	3840	Outer_Full	58.33	62.08	/	Pass
	3949.98	Outer_Full	58.42	62.25	/	Pass
DFT-s-OFDM QPSK	3730.02	Outer_Full	58.37	62.24	/	Pass
	3840	Outer_Full	58.39	62.23	/	Pass
	3949.98	Outer_Full	58.29	62.27	/	Pass
DFT-s-OFDM 16 QAM	3730.02	Outer_Full	58.45	62.21	/	Pass
	3840	Outer_Full	58.26	62.13	/	Pass
	3949.98	Outer_Full	58.29	62.23	/	Pass
DFT-s-OFDM 64 QAM	3730.02	Outer_Full	58.44	62.34	/	Pass
	3840	Outer_Full	58.41	62.05	/	Pass
	3949.98	Outer_Full	58.35	62.39	/	Pass
DFT-s-OFDM 256 QAM	3730.02	Outer_Full	58.25	62.16	/	Pass
	3840	Outer_Full	58.33	62.09	/	Pass
	3949.98	Outer_Full	58.20	62.20	/	Pass
CP-OFDM QPSK	3730.02	Outer_Full	58.25	62.08	/	Pass
	3840	Outer_Full	58.30	62.17	/	Pass
	3949.98	Outer_Full	58.32	62.16	/	Pass
CP-OFDM 16 QAM	3730.02	Outer_Full	58.18	62.10	/	Pass
	3840	Outer_Full	58.25	62.05	/	Pass
	3949.98	Outer_Full	58.25	62.26	/	Pass
CP-OFDM 64 QAM	3730.02	Outer_Full	58.74	61.94	/	Pass
	3840	Outer_Full	58.24	62.16	/	Pass
	3949.98	Outer_Full	58.36	62.20	/	Pass
CP-OFDM 256 QAM	3730.02	Outer_Full	58.32	62.35	/	Pass
	3840	Outer_Full	58.27	62.22	/	Pass
	3949.98	Outer_Full	58.38	62.18	/	Pass

3.1.5 30k_SISO_80MHz_NTNV

5G NR n77a SCS=30kHz SISO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3740.01	Outer_Full	77.74	82.66	/	Pass
	3840	Outer_Full	77.65	82.53	/	Pass
	3939.99	Outer_Full	77.76	82.88	/	Pass
DFT-s-OFDM QPSK	3740.01	Outer_Full	77.85	83.01	/	Pass
	3840	Outer_Full	77.60	82.77	/	Pass

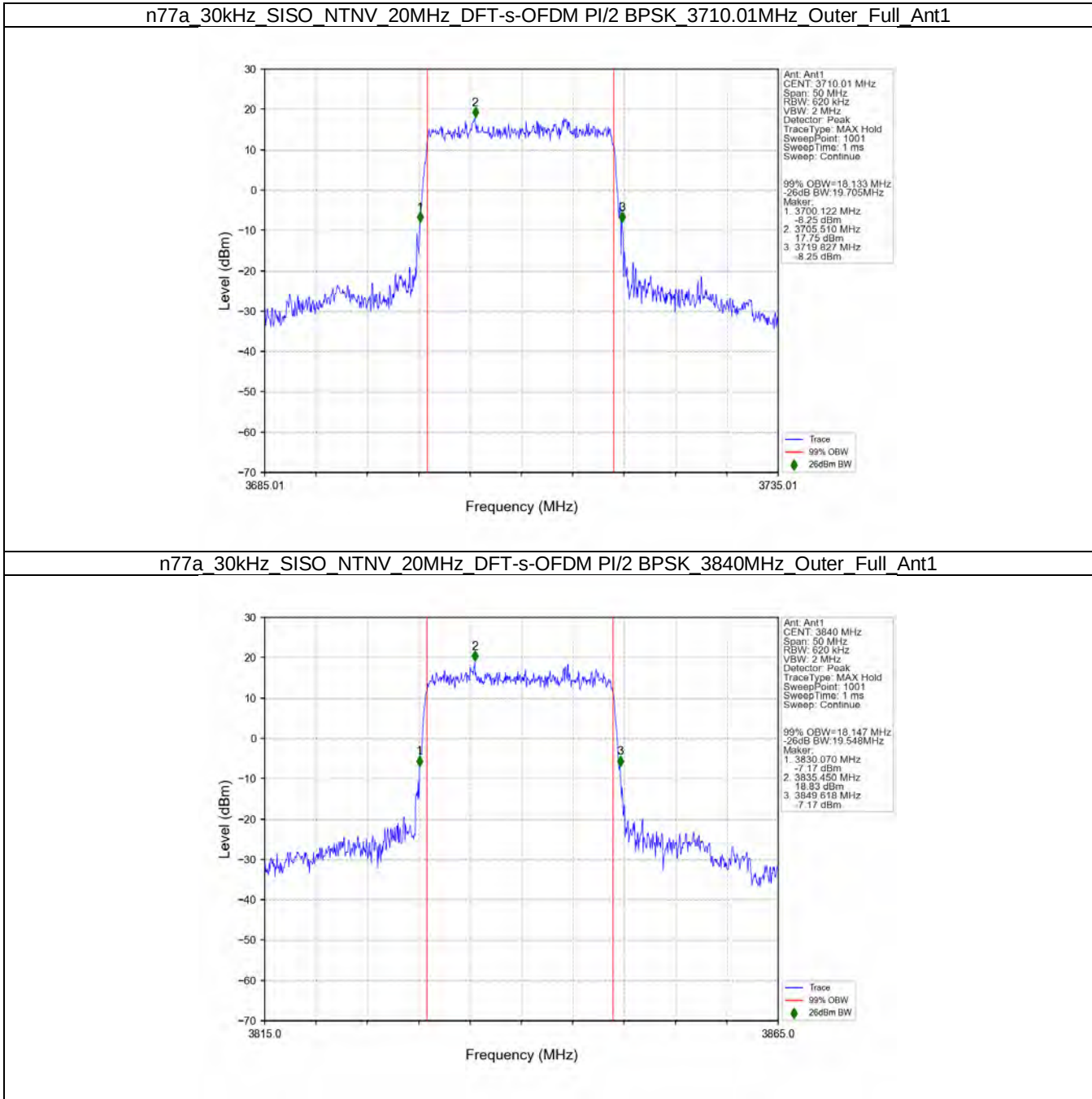
	3939.99	Outer_Full	77.70	83.08	/	Pass
DFT-s-OFDM 16 QAM	3740.01	Outer_Full	77.99	82.84	/	Pass
	3840	Outer_Full	77.80	83.07	/	Pass
	3939.99	Outer_Full	77.74	82.89	/	Pass
DFT-s-OFDM 64 QAM	3740.01	Outer_Full	77.89	83.06	/	Pass
	3840	Outer_Full	77.75	83.11	/	Pass
	3939.99	Outer_Full	77.74	82.82	/	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer_Full	77.87	83.04	/	Pass
	3840	Outer_Full	77.76	82.93	/	Pass
	3939.99	Outer_Full	78.10	82.93	/	Pass
CP-OFDM QPSK	3740.01	Outer_Full	78.15	83.26	/	Pass
	3840	Outer_Full	77.80	83.10	/	Pass
	3939.99	Outer_Full	78.12	83.47	/	Pass
CP-OFDM 16 QAM	3740.01	Outer_Full	78.22	83.40	/	Pass
	3840	Outer_Full	77.96	83.00	/	Pass
	3939.99	Outer_Full	78.11	83.24	/	Pass
CP-OFDM 64 QAM	3740.01	Outer_Full	78.32	83.40	/	Pass
	3840	Outer_Full	78.03	83.03	/	Pass
	3939.99	Outer_Full	77.95	83.17	/	Pass
CP-OFDM 256 QAM	3740.01	Outer_Full	78.03	83.43	/	Pass
	3840	Outer_Full	77.82	83.21	/	Pass
	3939.99	Outer_Full	77.90	83.22	/	Pass

3.1.6 30k_SISO_100MHz_NTNV

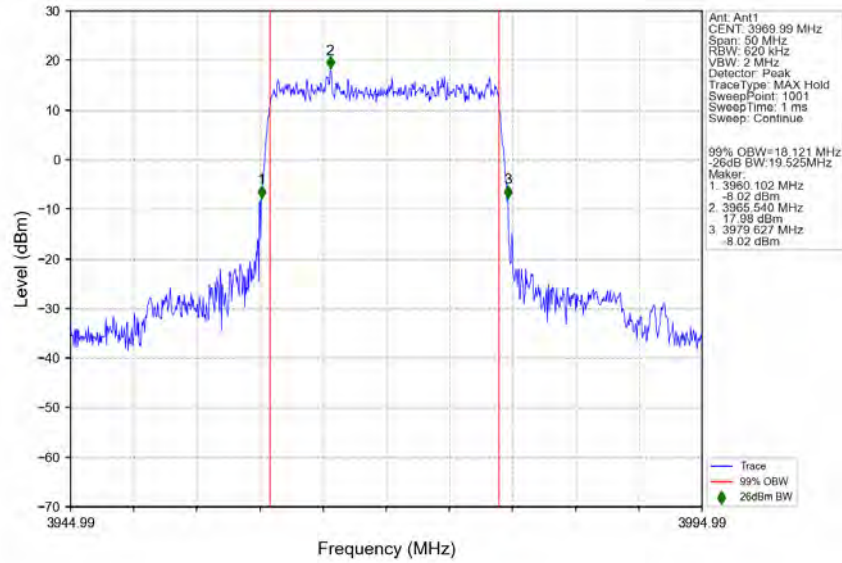
5G NR n77a SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	96.58	101.78	/	Pass
	3840	Outer_Full	96.82	101.59	/	Pass
	3930	Outer_Full	97.66	101.77	/	Pass
DFT-s-OFDM QPSK	3750	Outer_Full	96.81	101.90	/	Pass
	3840	Outer_Full	96.64	101.86	/	Pass
	3930	Outer_Full	96.87	101.94	/	Pass
DFT-s-OFDM 16 QAM	3750	Outer_Full	96.75	101.80	/	Pass
	3840	Outer_Full	96.86	101.96	/	Pass
	3930	Outer_Full	96.90	101.78	/	Pass
DFT-s-OFDM 64 QAM	3750	Outer_Full	96.75	101.86	/	Pass
	3840	Outer_Full	96.54	101.92	/	Pass
	3930	Outer_Full	97.59	101.48	/	Pass
DFT-s-OFDM 256 QAM	3750	Outer_Full	96.63	101.95	/	Pass
	3840	Outer_Full	97.50	101.40	/	Pass
	3930	Outer_Full	96.59	101.87	/	Pass
CP-OFDM QPSK	3750	Outer_Full	97.75	103.02	/	Pass
	3840	Outer_Full	97.80	103.06	/	Pass
	3930	Outer_Full	97.57	102.78	/	Pass
CP-OFDM 16 QAM	3750	Outer_Full	97.59	102.82	/	Pass
	3840	Outer_Full	97.99	102.00	/	Pass
	3930	Outer_Full	97.53	102.87	/	Pass
CP-OFDM 64 QAM	3750	Outer_Full	97.70	103.01	/	Pass
	3840	Outer_Full	97.80	102.98	/	Pass
	3930	Outer_Full	97.69	102.96	/	Pass
CP-OFDM 256 QAM	3750	Outer_Full	97.84	102.79	/	Pass
	3840	Outer_Full	97.83	102.78	/	Pass
	3930	Outer_Full	97.71	102.58	/	Pass

3.2 Test Graph

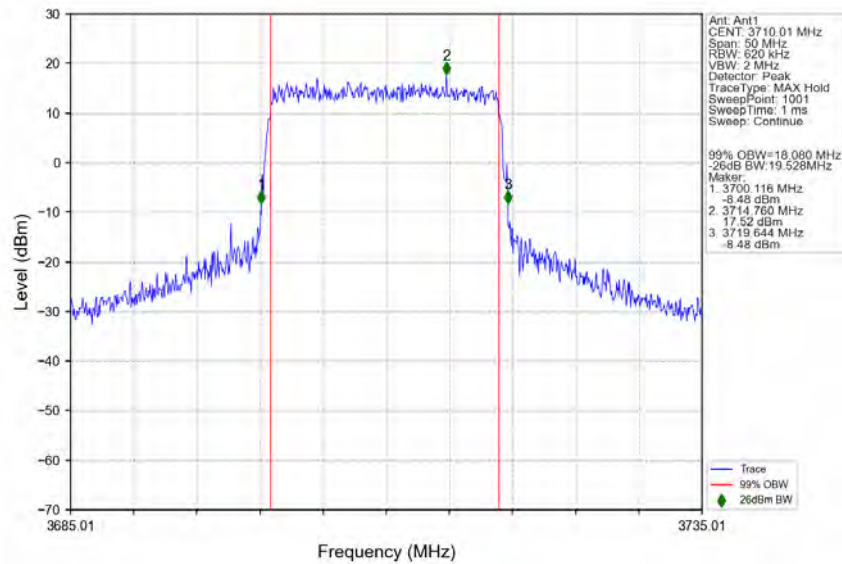
3.2.1 30k_SISO_20MHz_NTNV



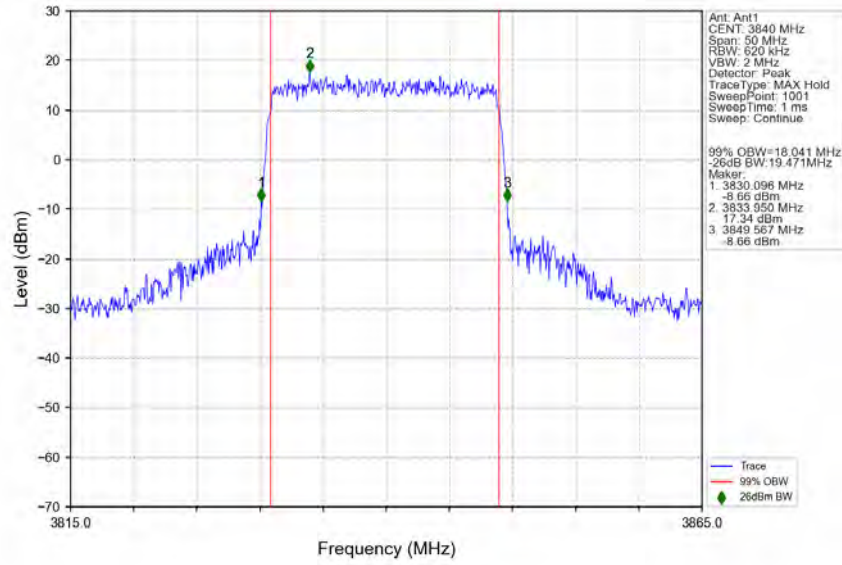
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3969.99MHz Outer Full Ant1



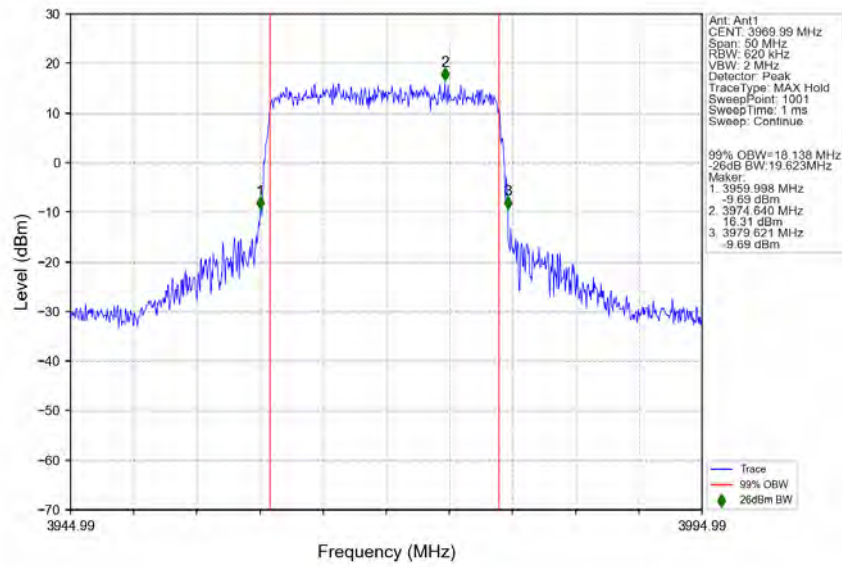
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3710.01MHz Outer Full Ant1



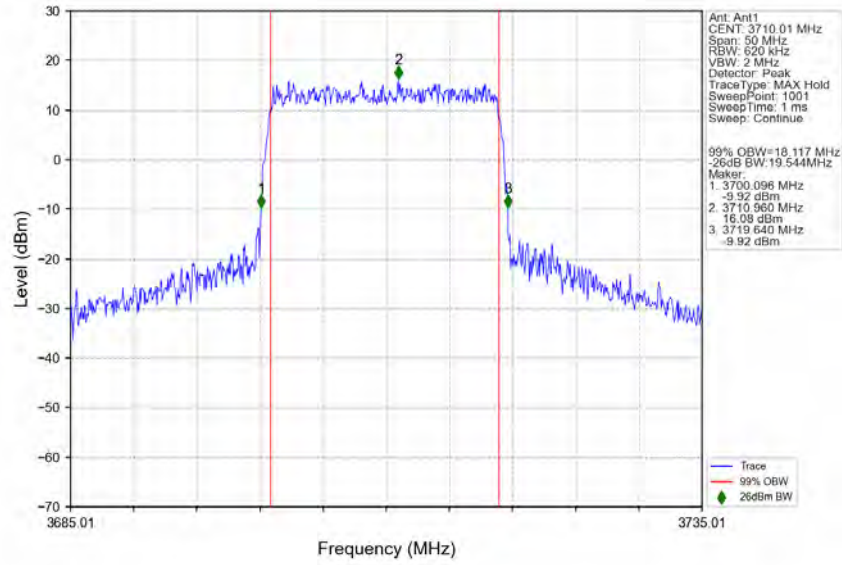
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3840MHz Outer Full Ant1



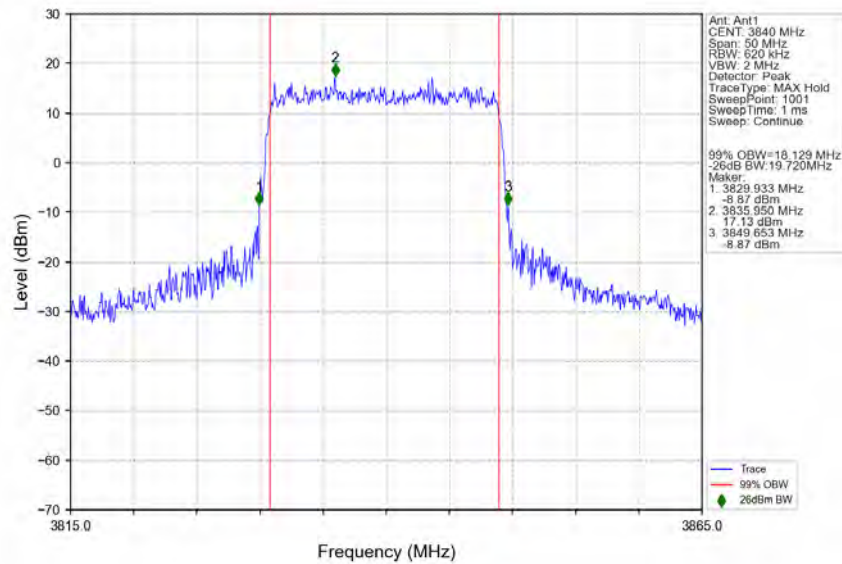
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3969.99MHz Outer Full Ant1



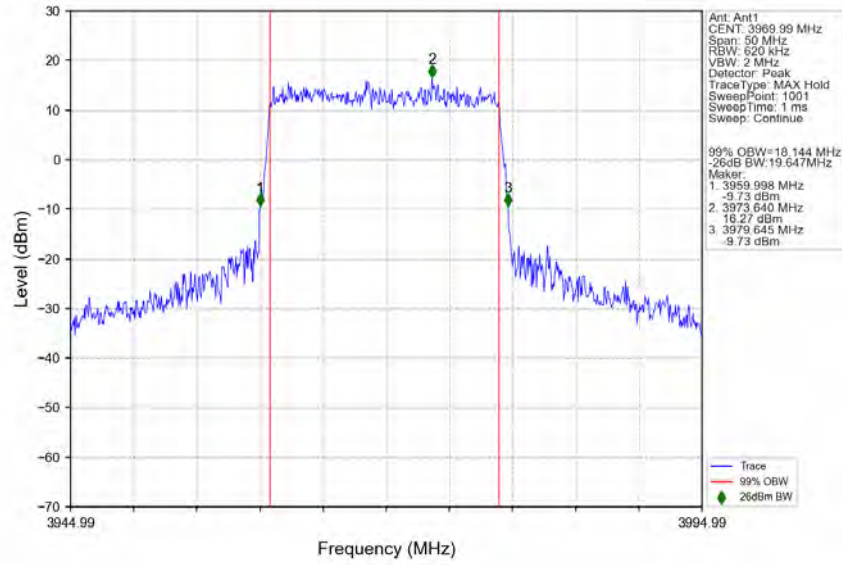
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM 16 QAM 3710.01MHz Outer Full Ant1



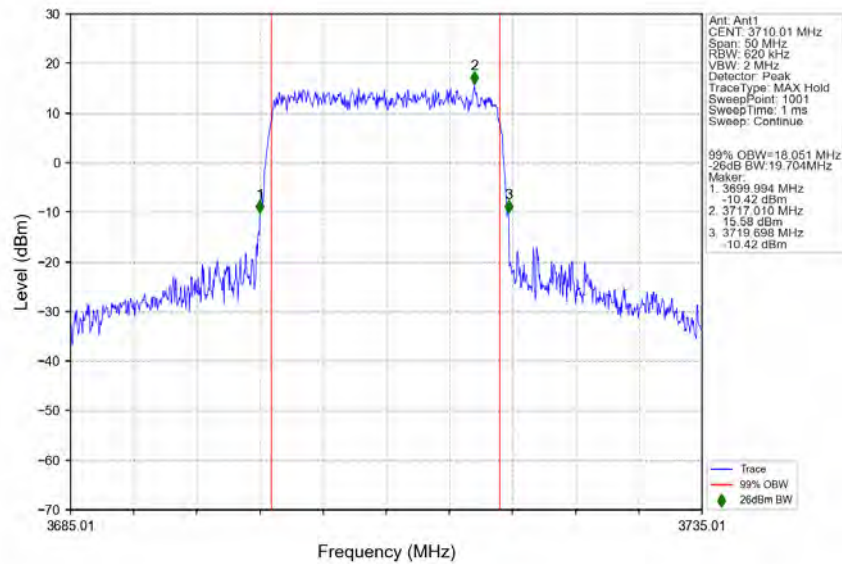
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM 16 QAM 3840MHz Outer Full Ant1



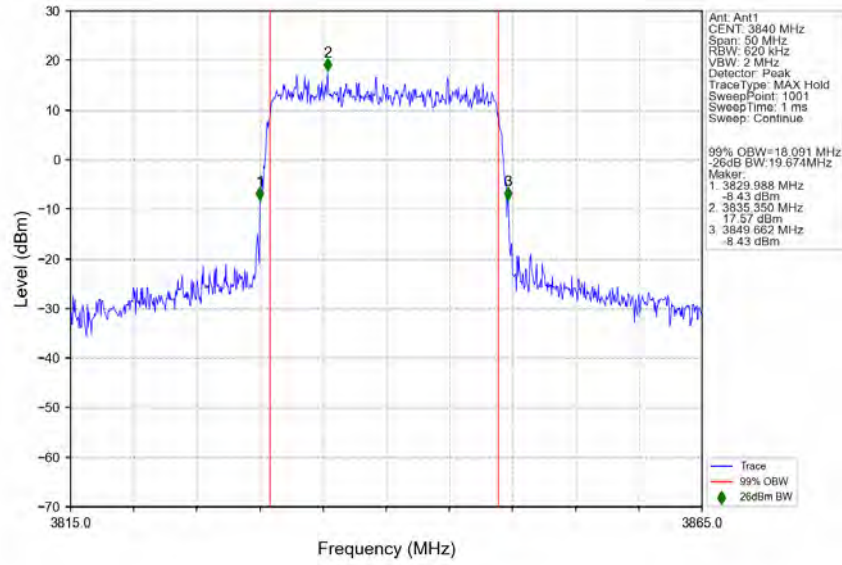
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM 16 QAM 3969.99MHz Outer Full Ant1



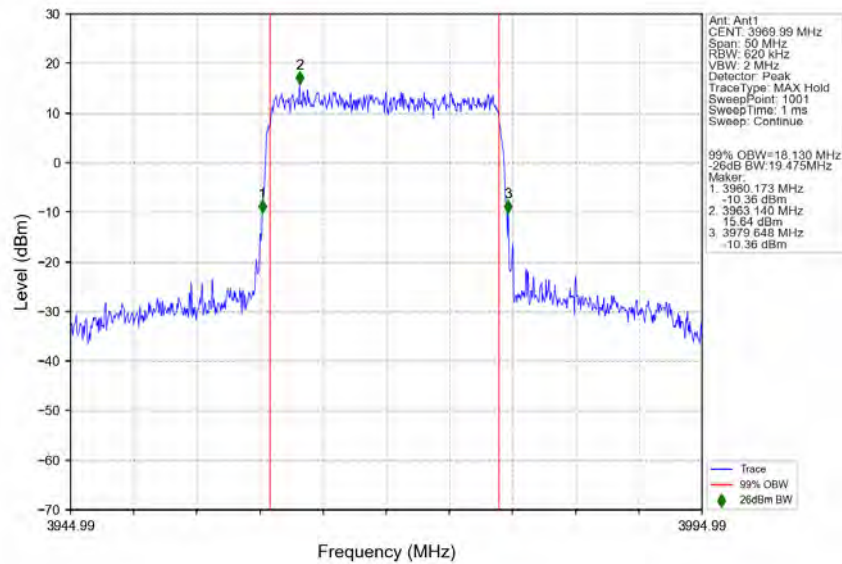
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM 64 QAM 3710.01MHz Outer Full Ant1



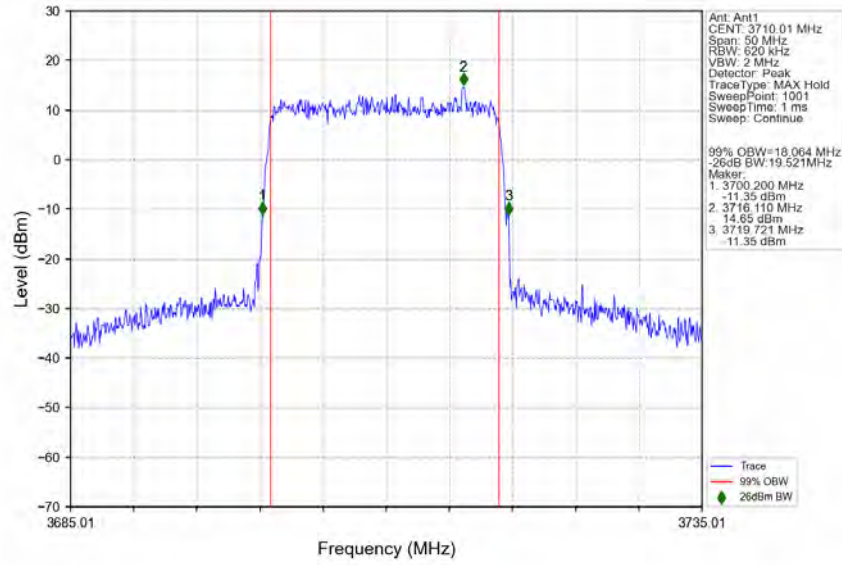
n77a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3840MHz_Outer_Full_Ant1



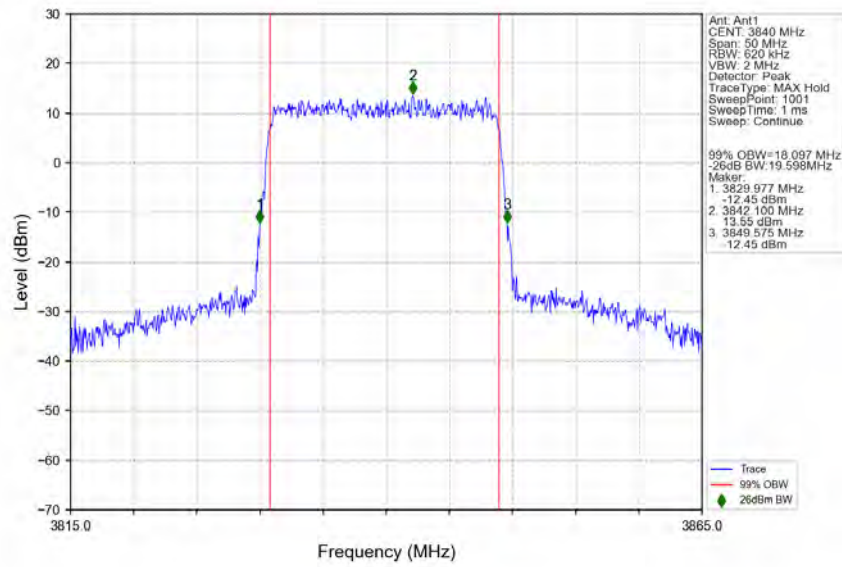
n77a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3969.99MHz_Outer_Full_Ant1



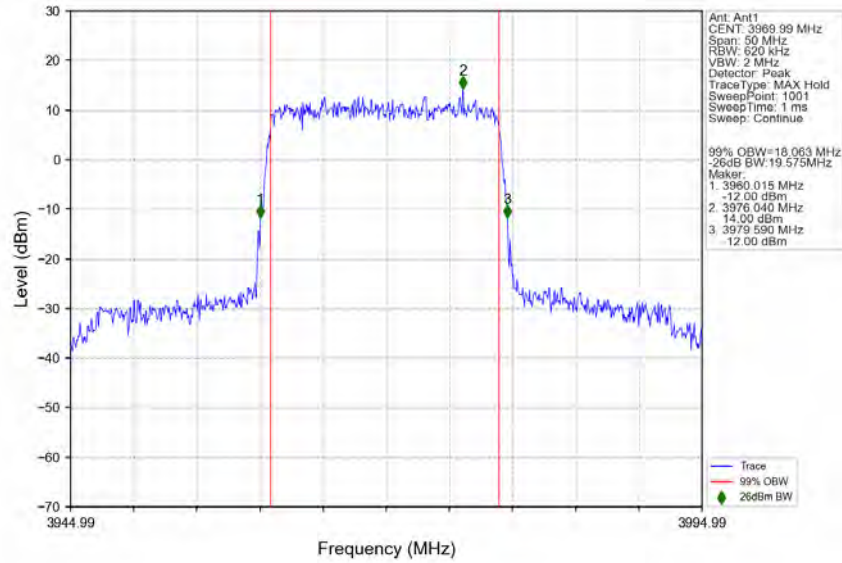
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 3710.01MHz Outer Full Ant1



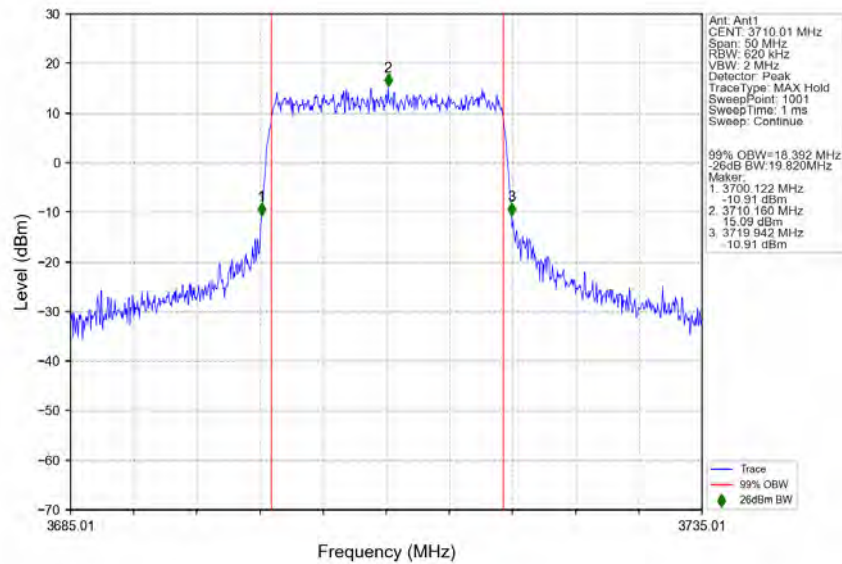
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 3840MHz Outer Full Ant1



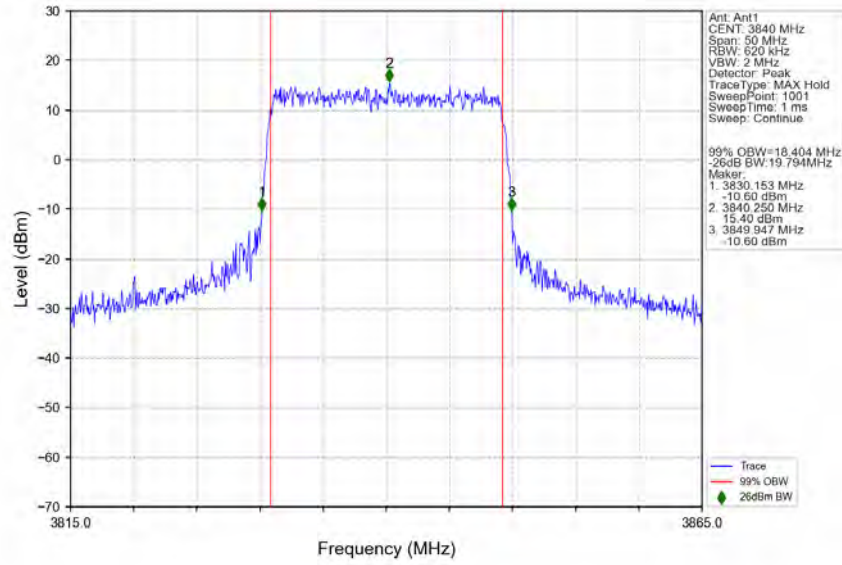
n77a 30kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 3969.99MHz Outer Full Ant1



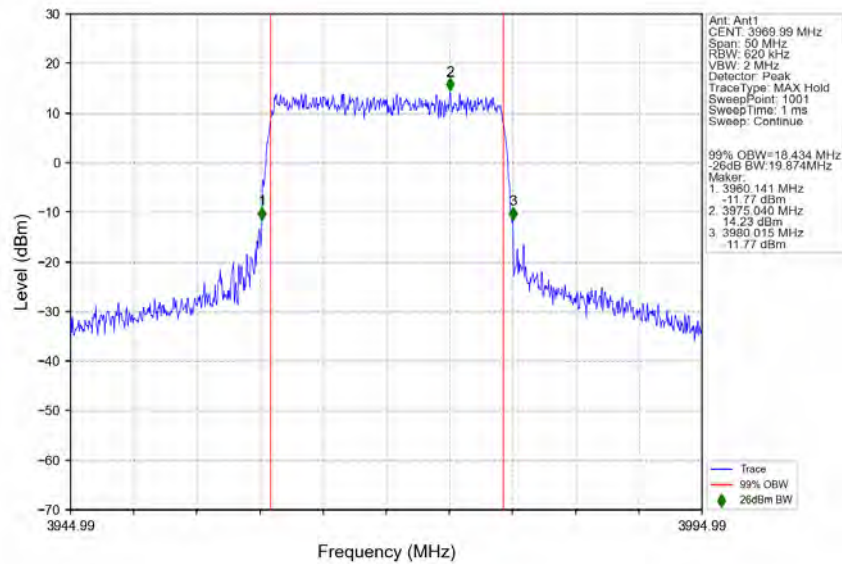
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3710.01MHz Outer Full Ant1



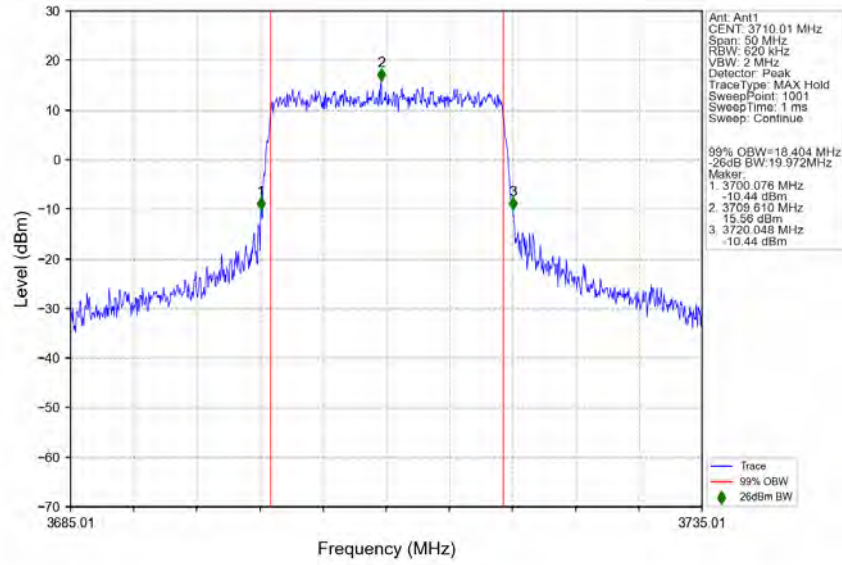
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3840MHz Outer Full Ant1



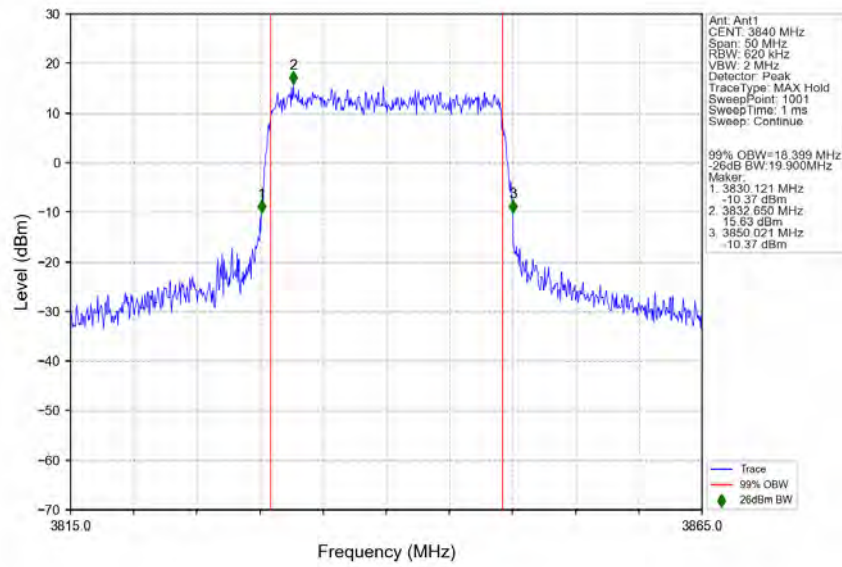
n77a 30kHz SISO NTN 20MHz CP-OFDM QPSK 3969.99MHz Outer Full Ant1



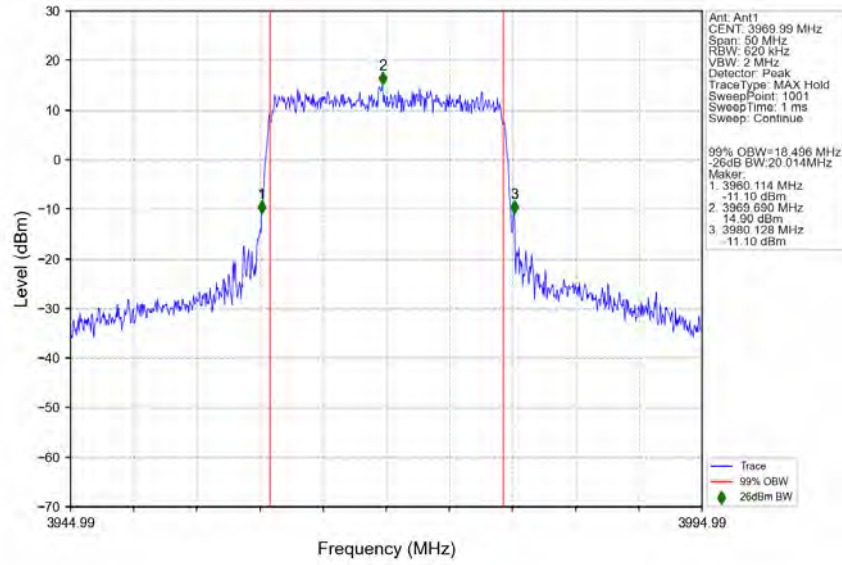
n77a 30kHz SISO NTN 20MHz CP-OFDM 16 QAM 3710.01MHz Outer Full Ant1



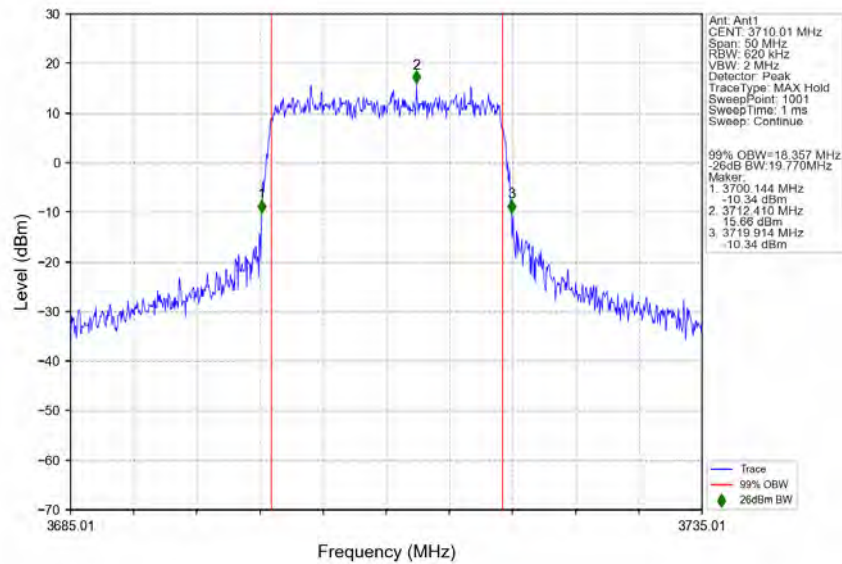
n77a 30kHz SISO NTN 20MHz CP-OFDM 16 QAM 3840MHz Outer Full Ant1



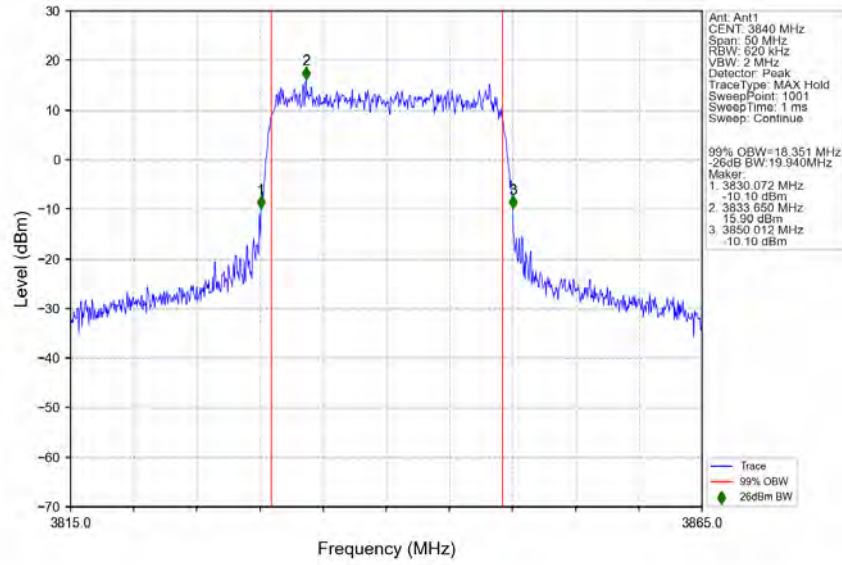
n77a 30kHz SISO NTN 20MHz CP-OFDM 16 QAM 3969.99MHz Outer Full Ant1



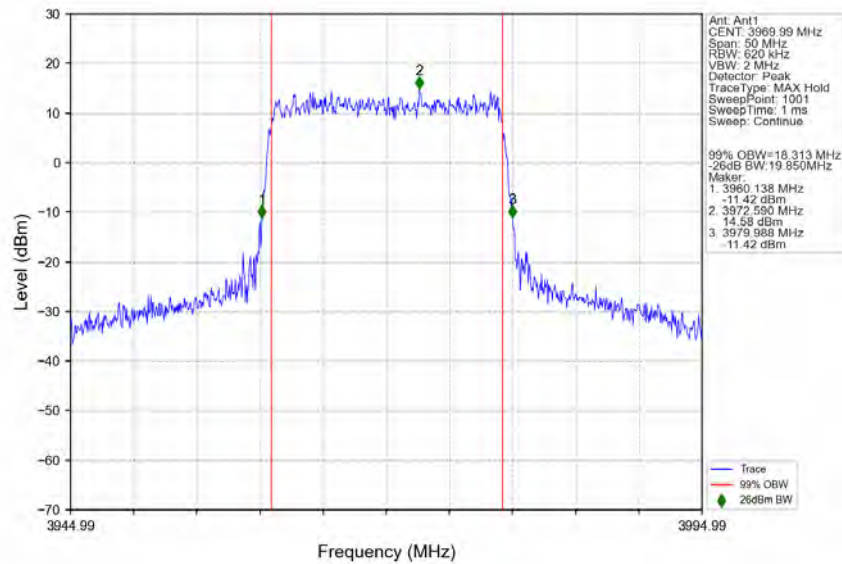
n77a 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3710.01MHz Outer Full Ant1



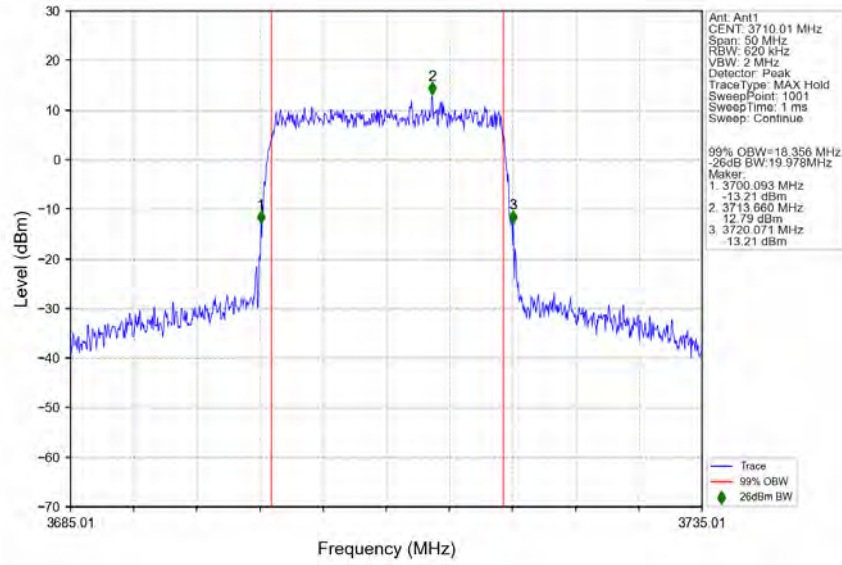
n77a 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3840MHz Outer Full Ant1



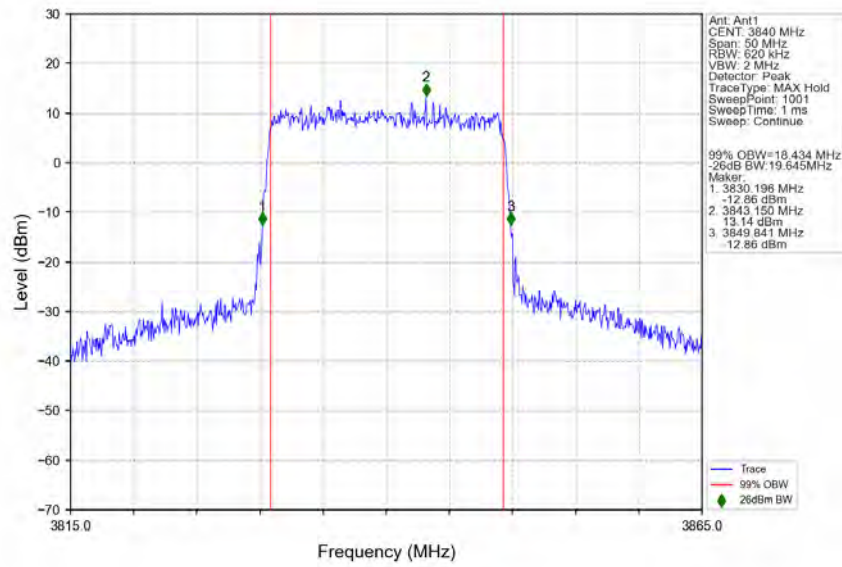
n77a 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3969.99MHz Outer Full Ant1



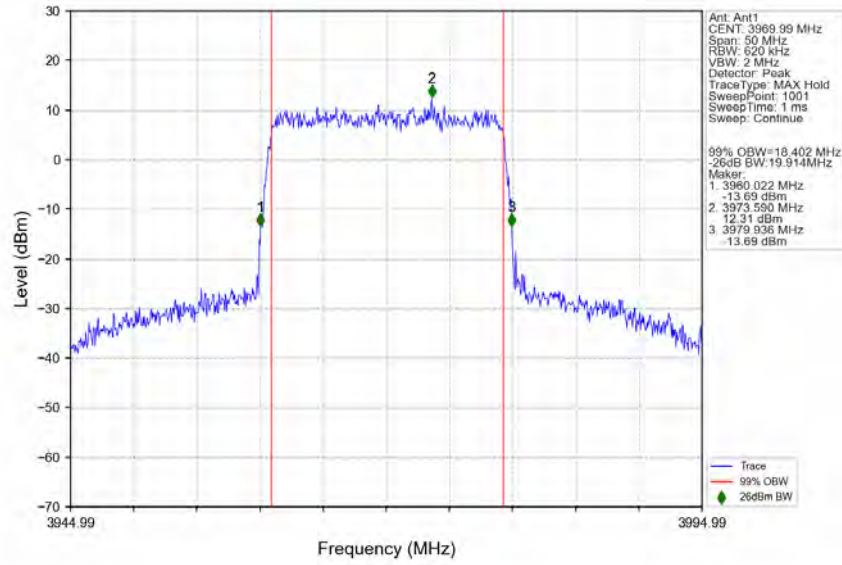
n77a 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3710.01MHz Outer Full Ant1



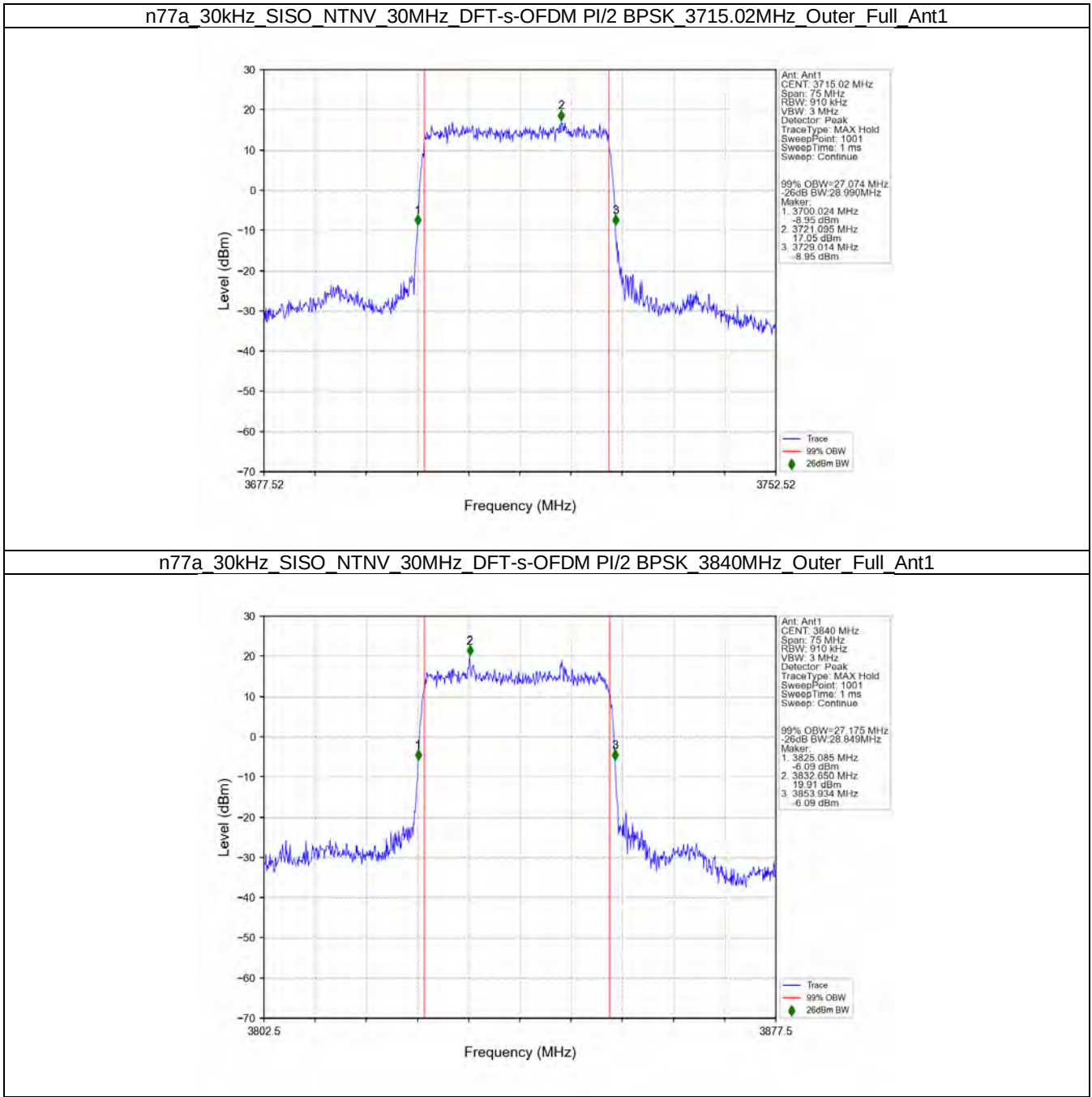
n77a 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3840MHz Outer Full Ant1



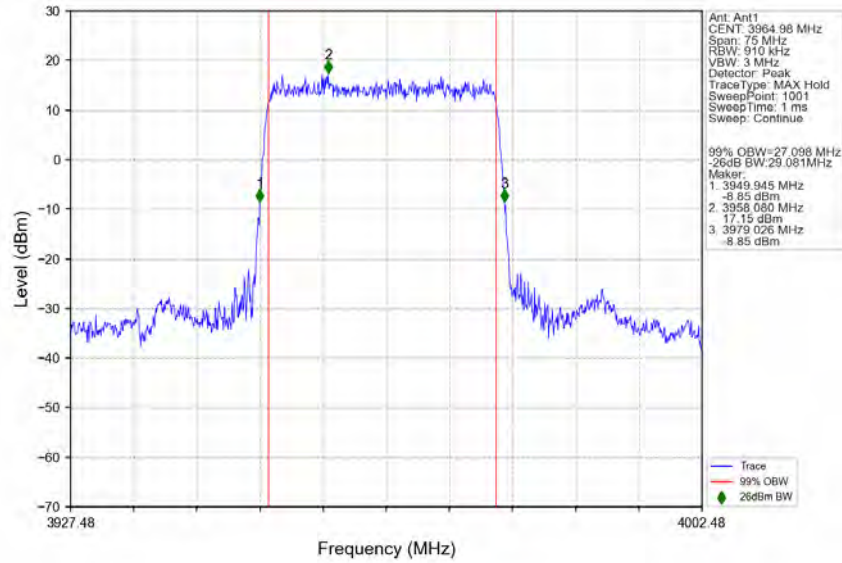
n77a 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3969.99MHz Outer Full Ant1



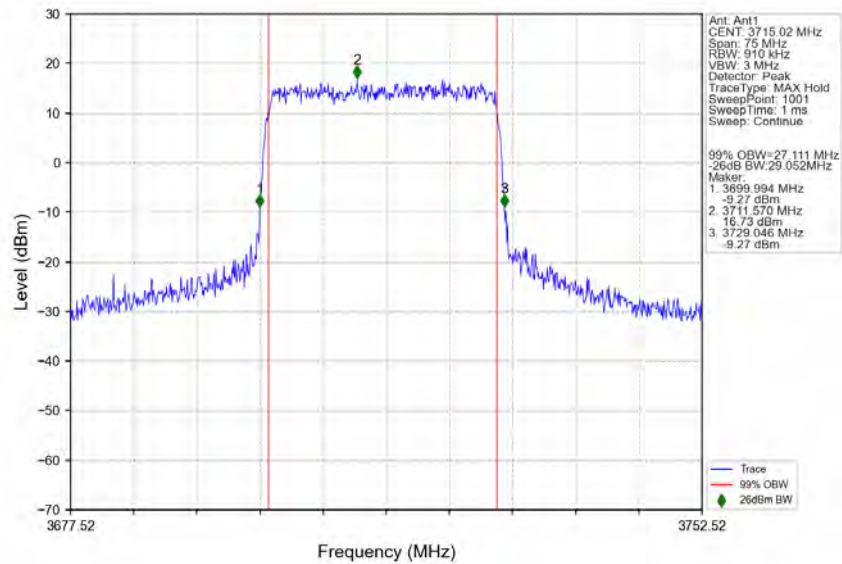
3.2.2 30k_SISO_30MHz_NTNV



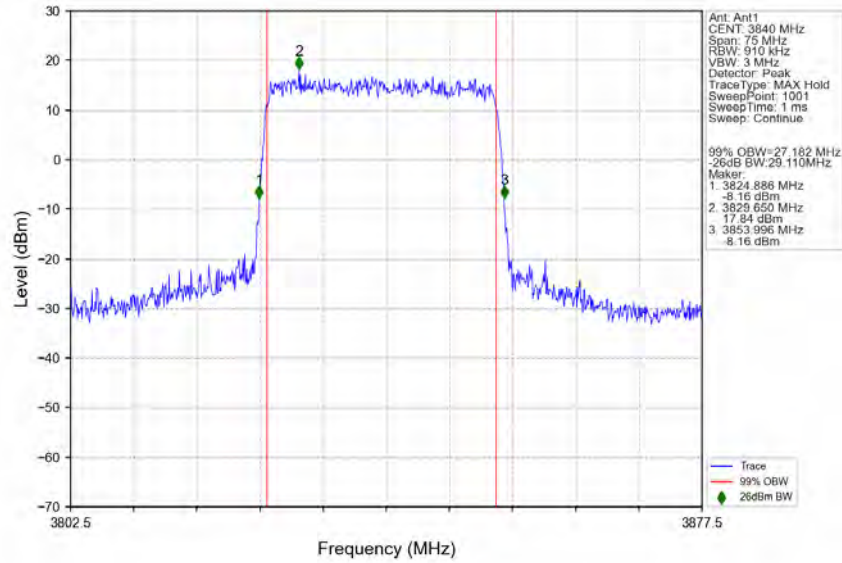
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM PI/2 BPSK 3964.98MHz Outer Full Ant1



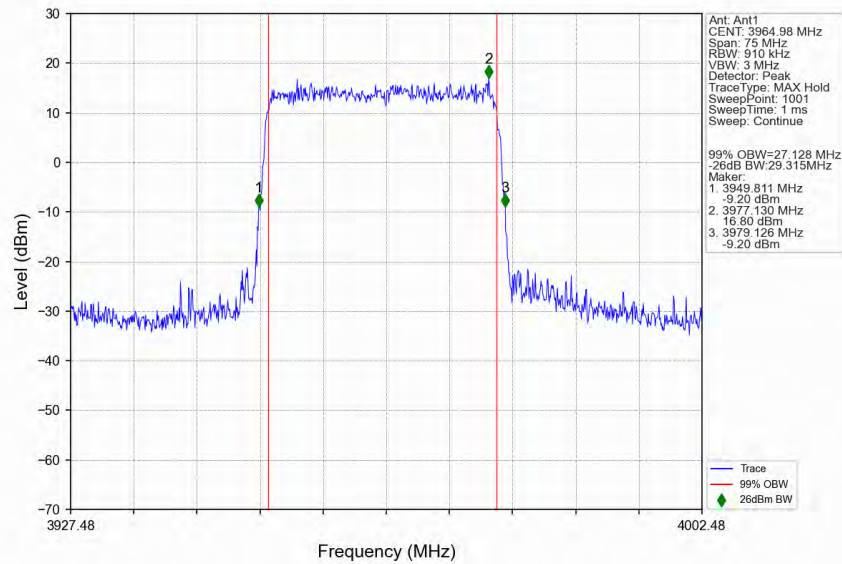
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3715.02MHz Outer Full Ant1



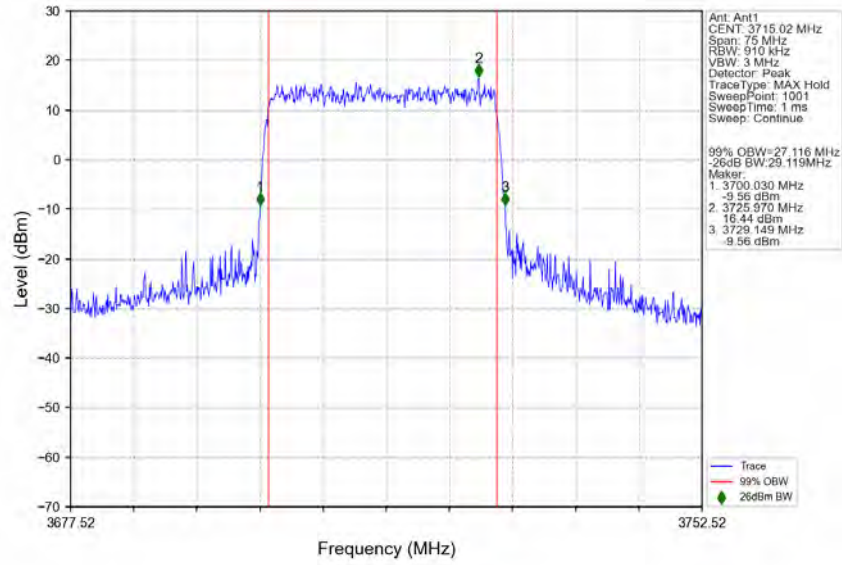
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3840MHz Outer Full Ant1



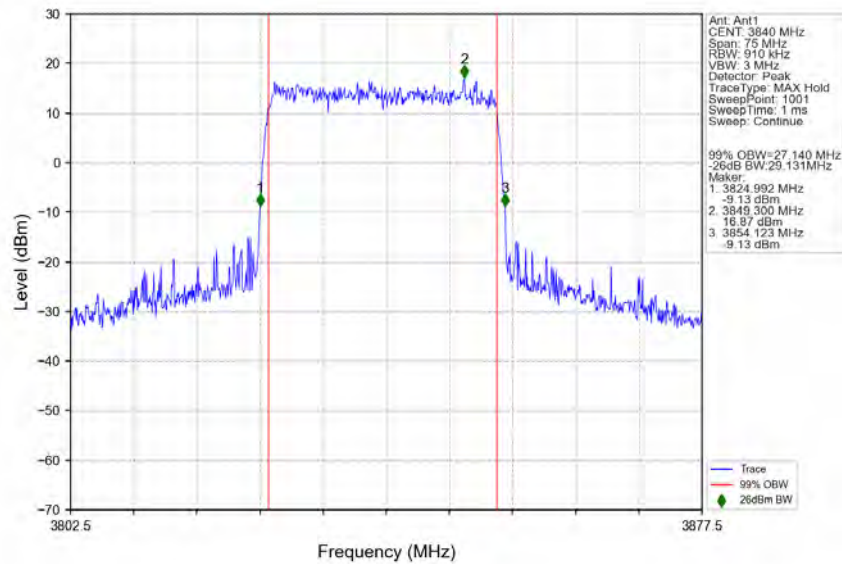
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3964.98MHz Outer Full Ant1



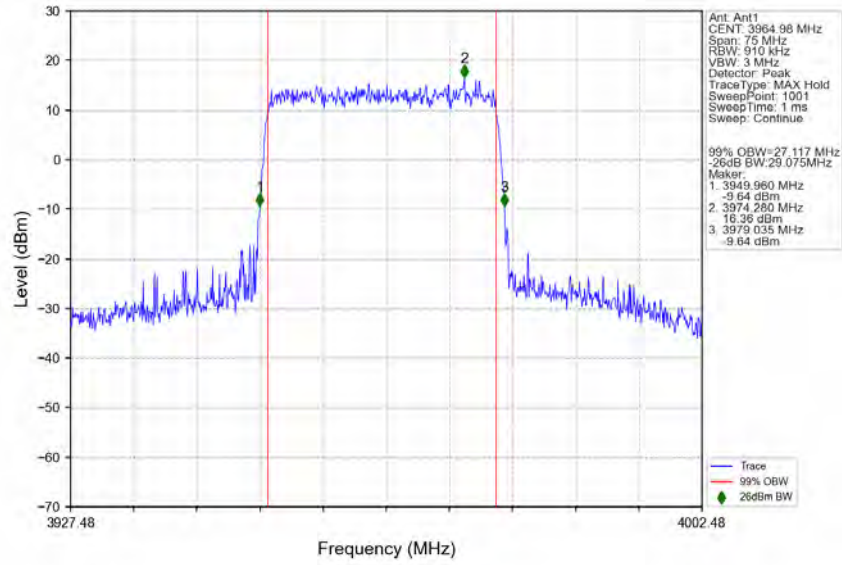
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM 16 QAM 3715.02MHz Outer Full Ant1



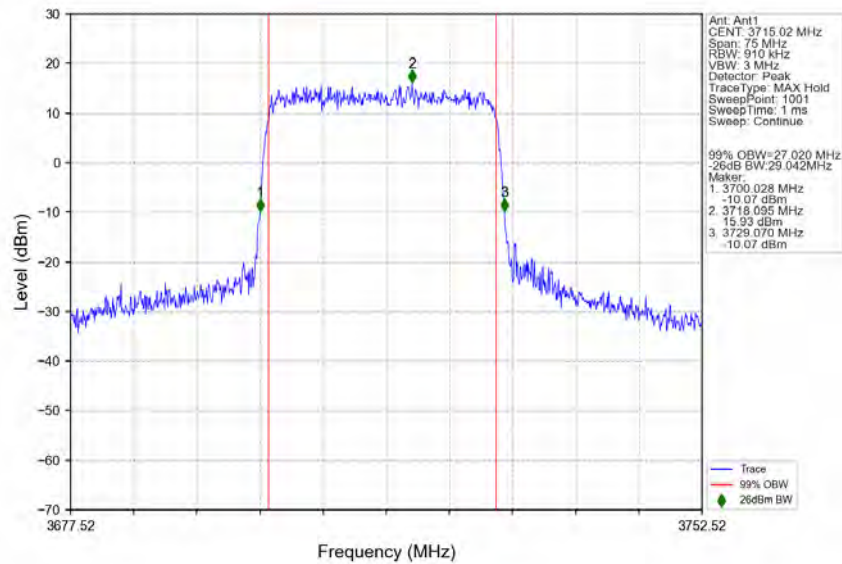
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM 16 QAM 3840MHz Outer Full Ant1



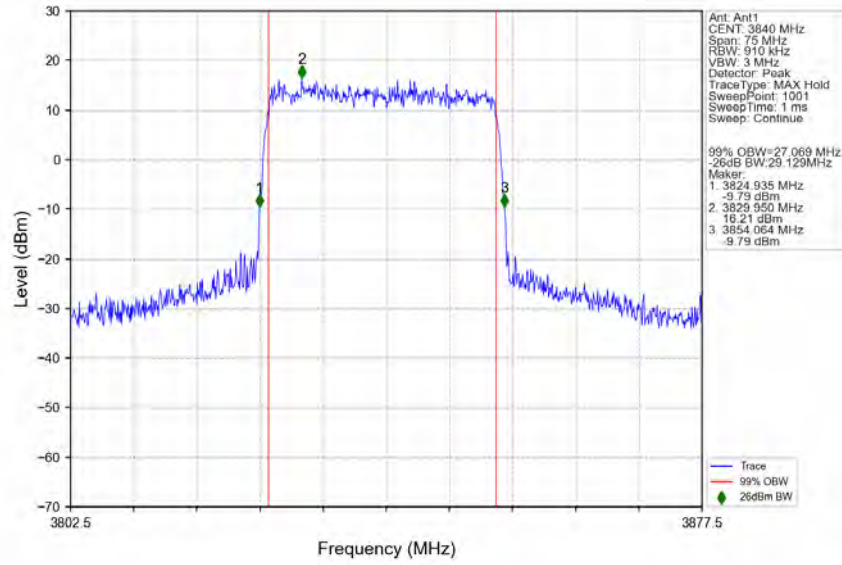
n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3964.98MHz_Outer_Full_Ant1



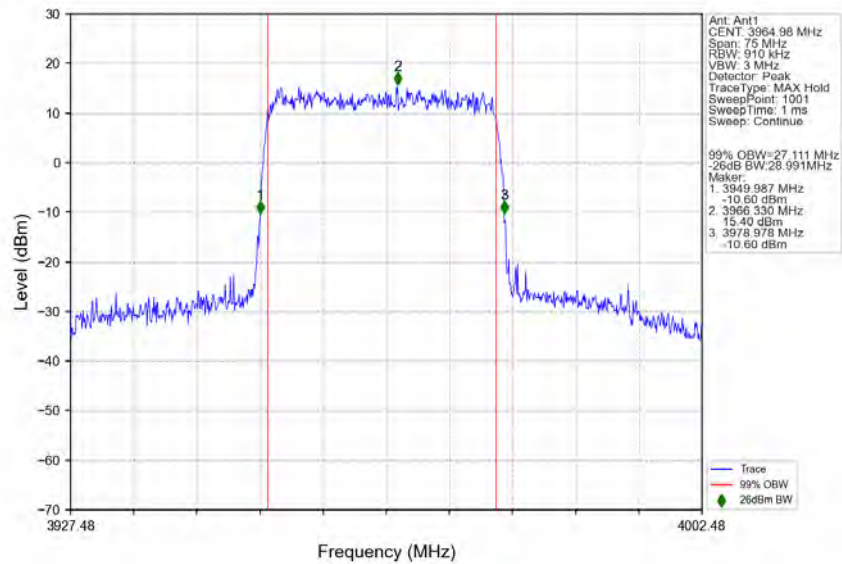
n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3715.02MHz_Outer_Full_Ant1



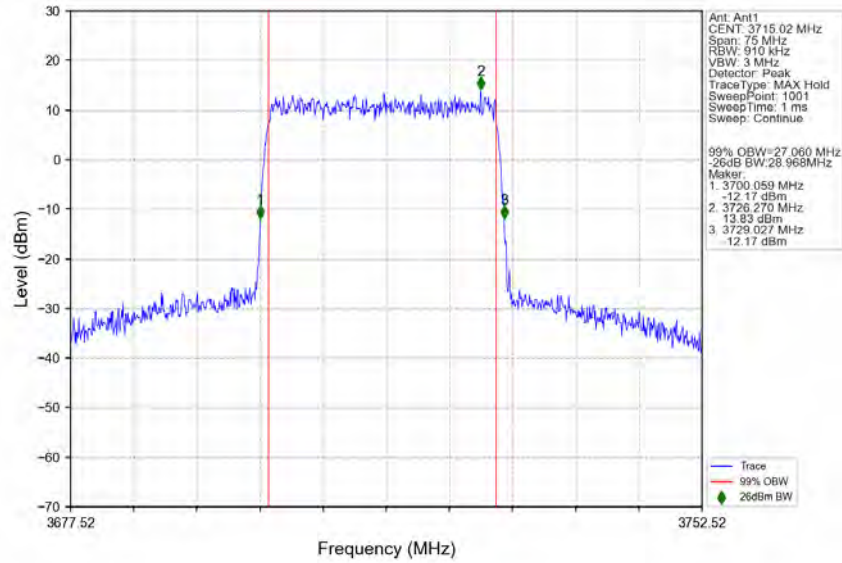
n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3840MHz_Outer_Full_Ant1



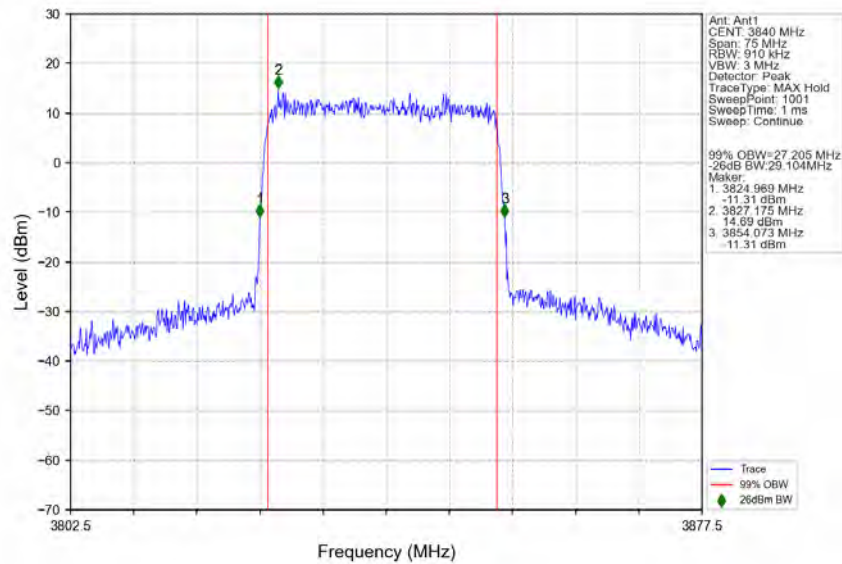
n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_3964.98MHz_Outer_Full_Ant1



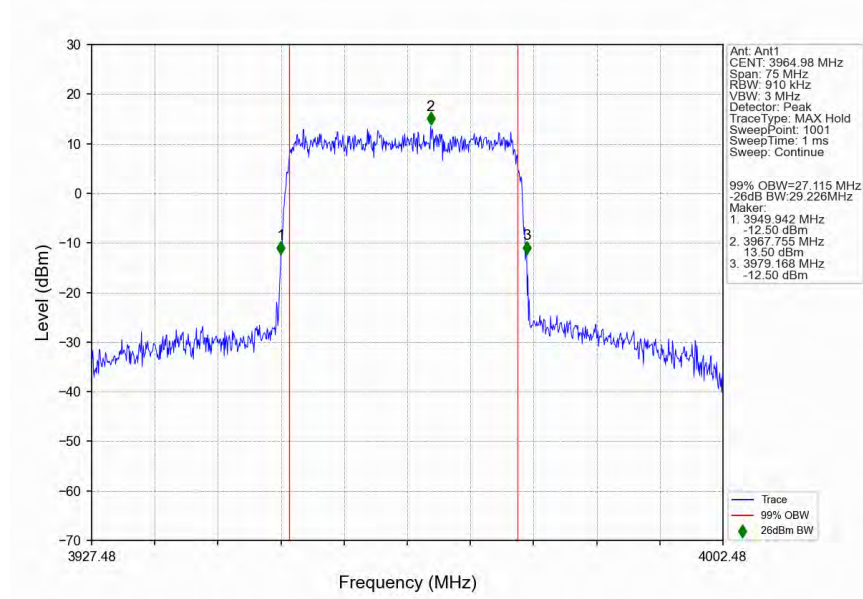
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM 256 QAM 3715.02MHz Outer Full Ant1



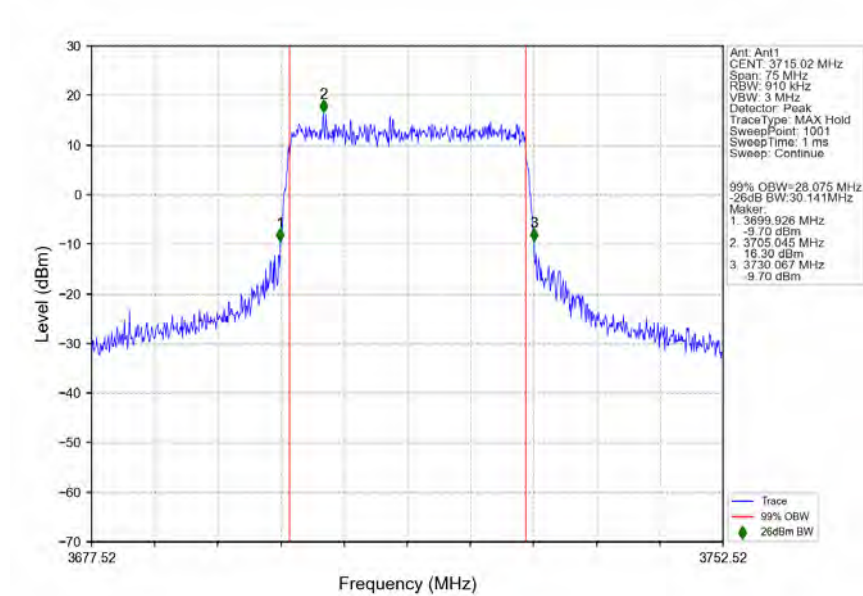
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM 256 QAM 3840MHz Outer Full Ant1



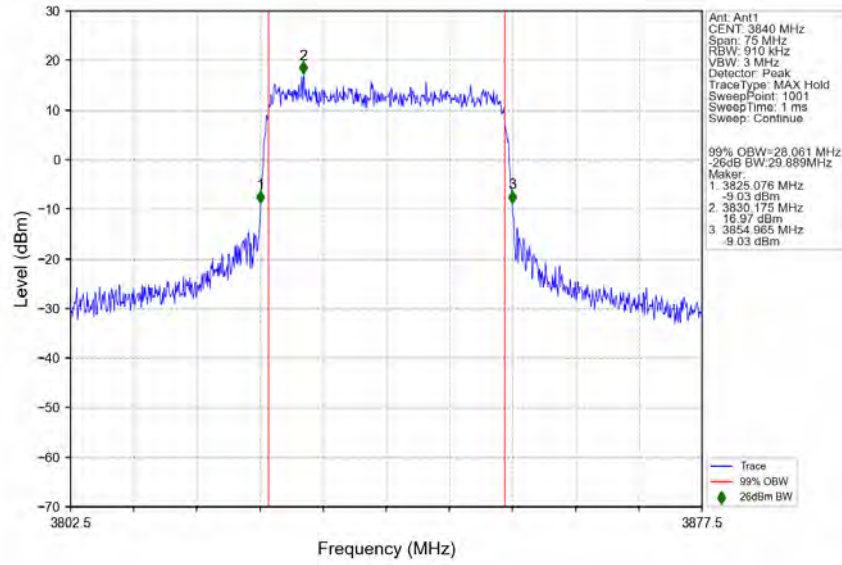
n77a 30kHz SISO NTN 30MHz DFT-s-OFDM 256 QAM 3964.98MHz Outer Full Ant1



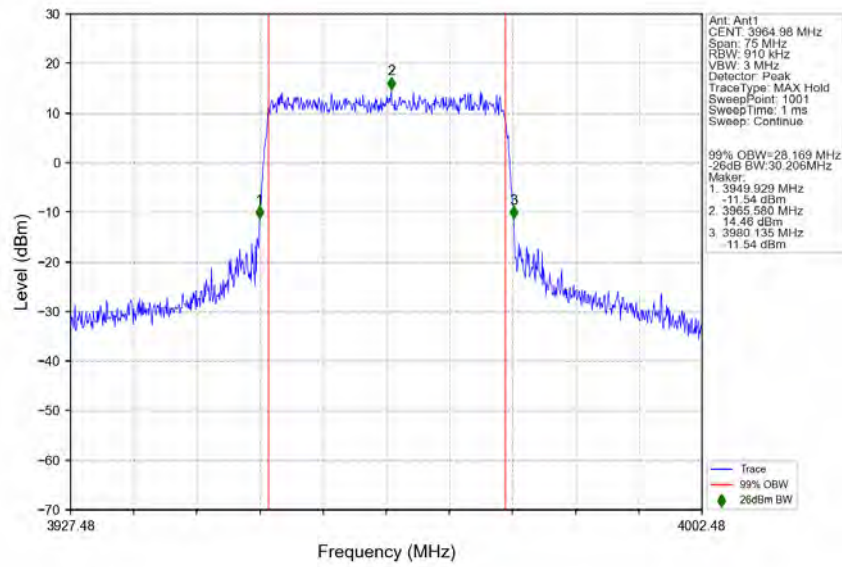
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3715.02MHz Outer Full Ant1



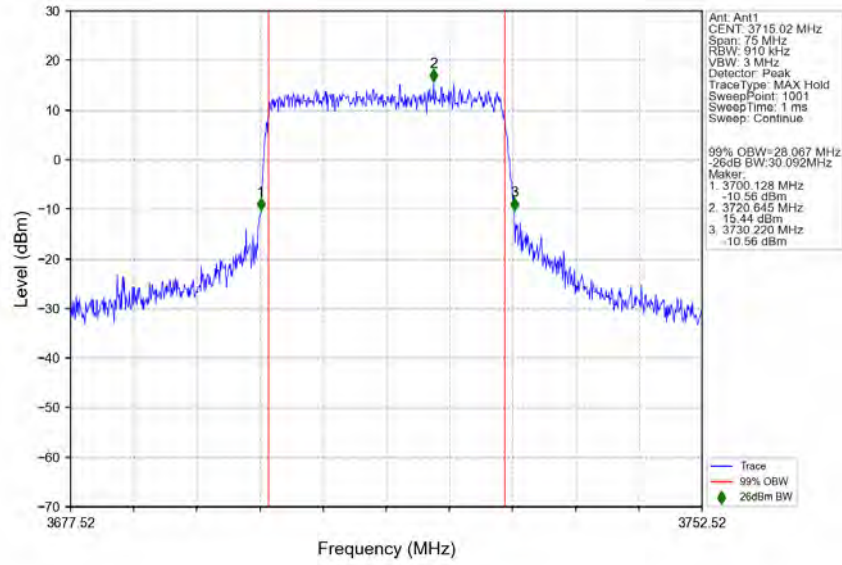
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3840MHz Outer Full Ant1



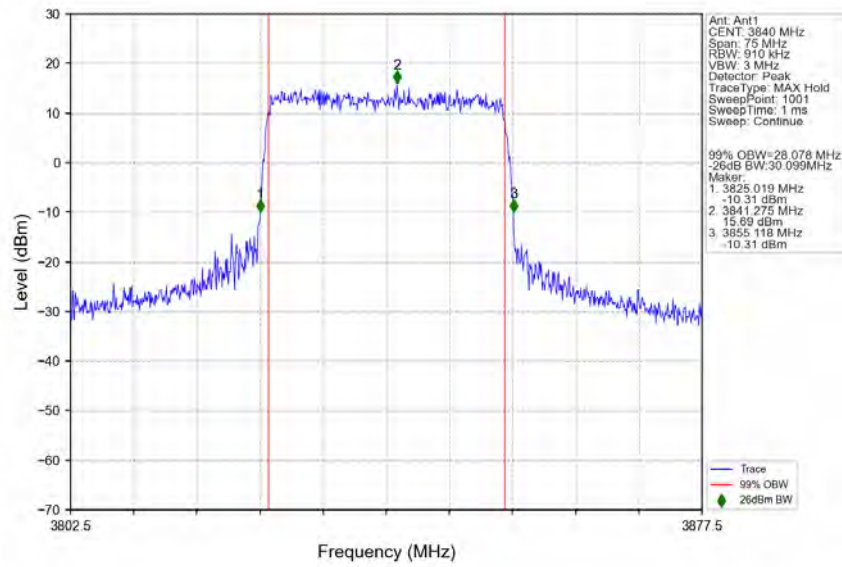
n77a 30kHz SISO NTN 30MHz CP-OFDM QPSK 3964.98MHz Outer Full Ant1



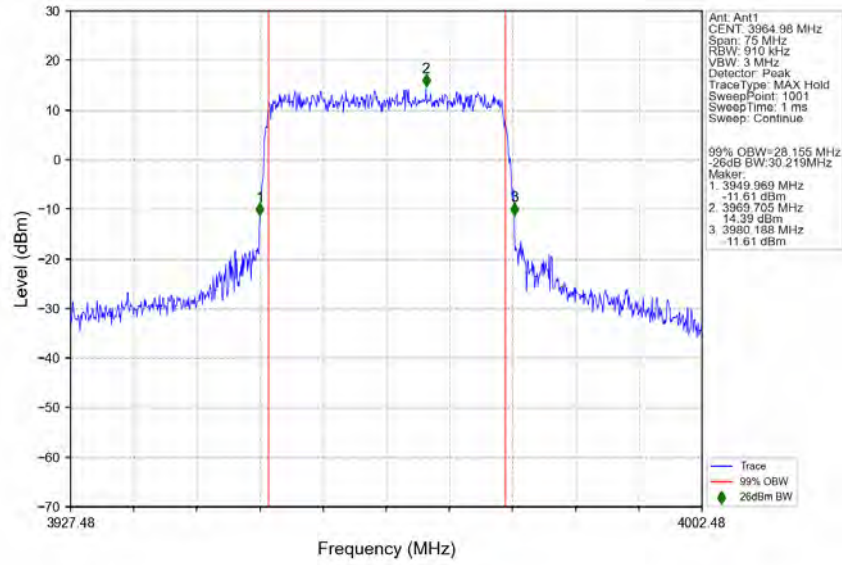
n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_3715.02MHz_Outer_Full_Ant1



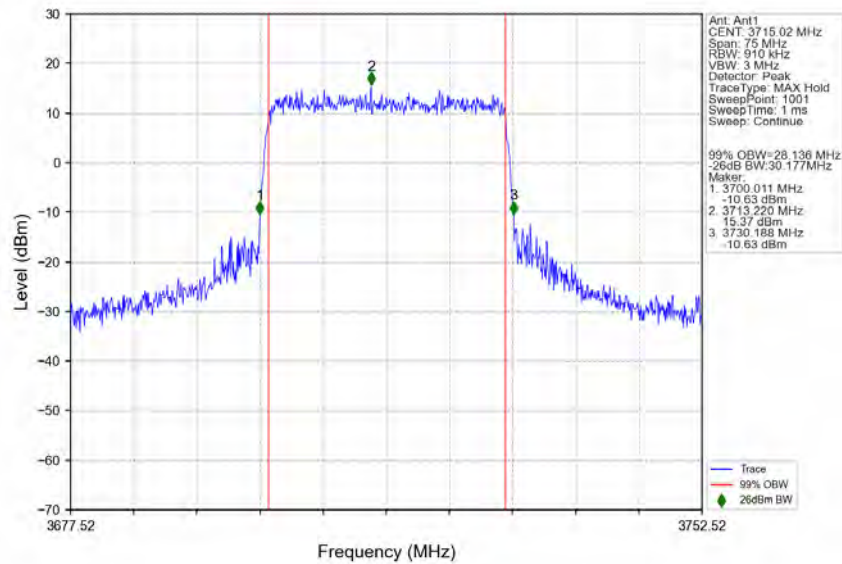
n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_3840MHz_Outer_Full_Ant1



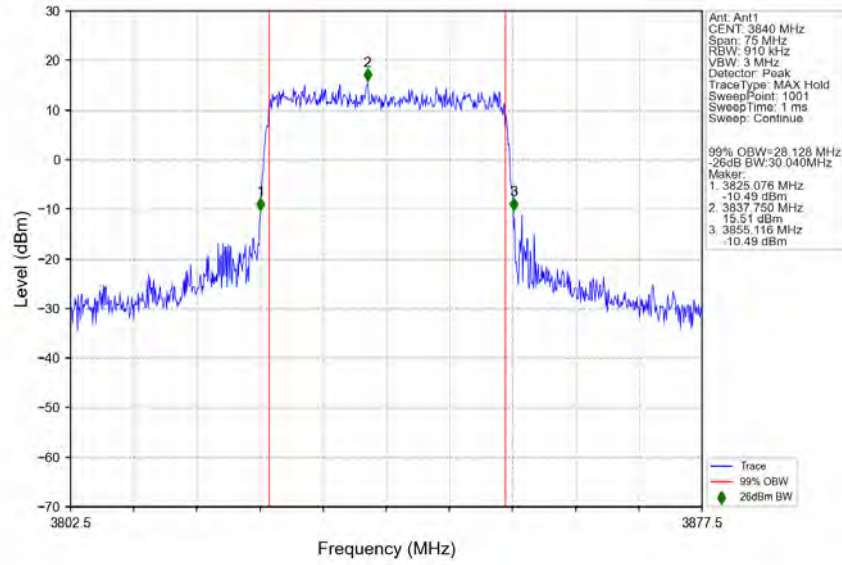
n77a 30kHz SISO NTN 30MHz CP-OFDM 16 QAM 3964.98MHz Outer Full Ant1



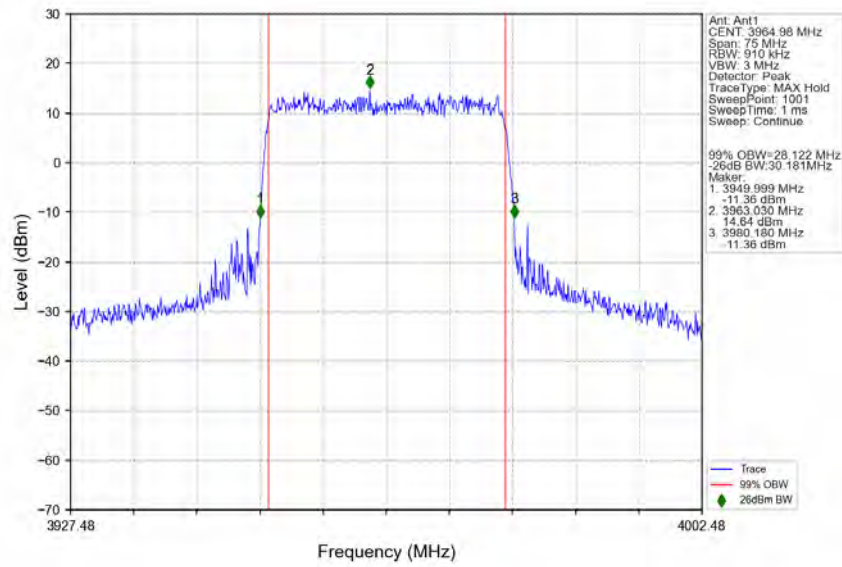
n77a 30kHz SISO NTN 30MHz CP-OFDM 64 QAM 3715.02MHz Outer Full Ant1



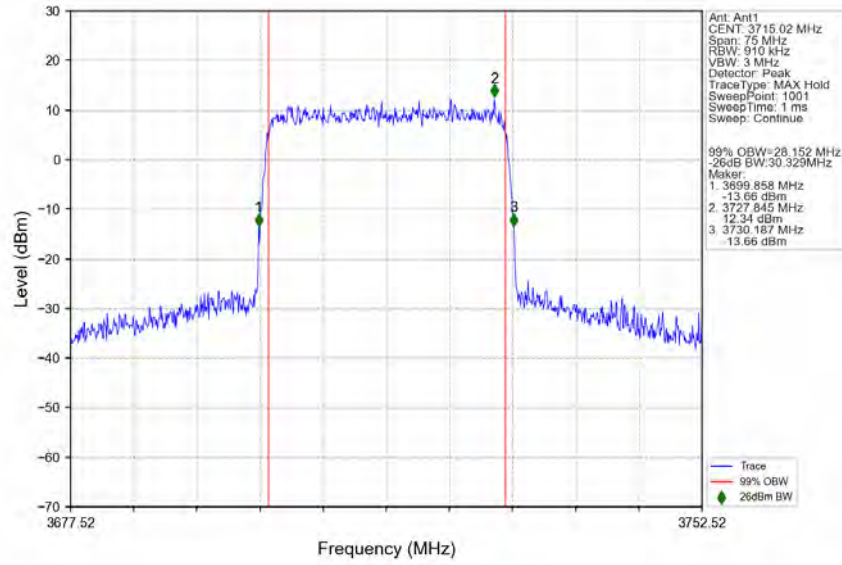
n77a 30kHz SISO NTN 30MHz CP-OFDM 64 QAM 3840MHz Outer Full Ant1



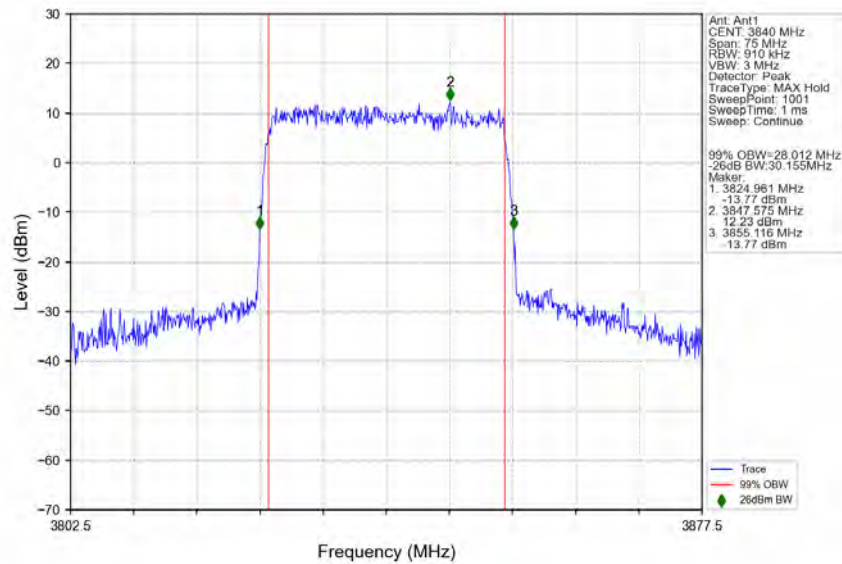
n77a 30kHz SISO NTN 30MHz CP-OFDM 64 QAM 3964.98MHz Outer Full Ant1



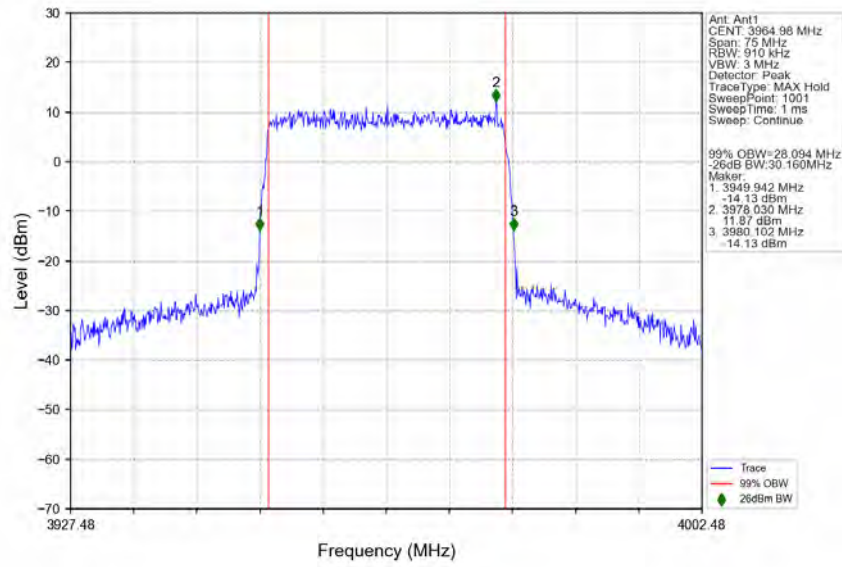
n77a 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3715.02MHz Outer Full Ant1



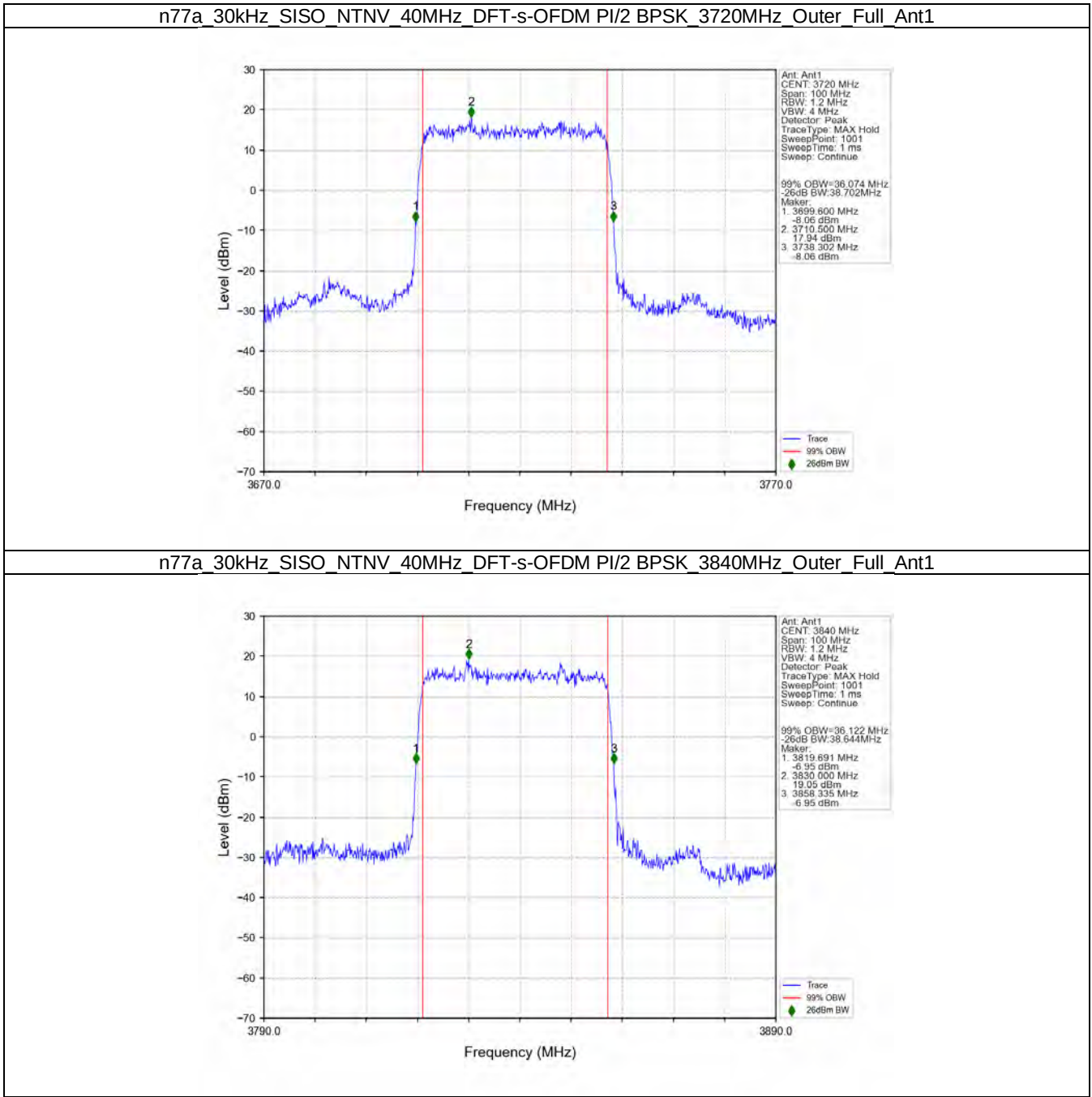
n77a 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3840MHz Outer Full Ant1



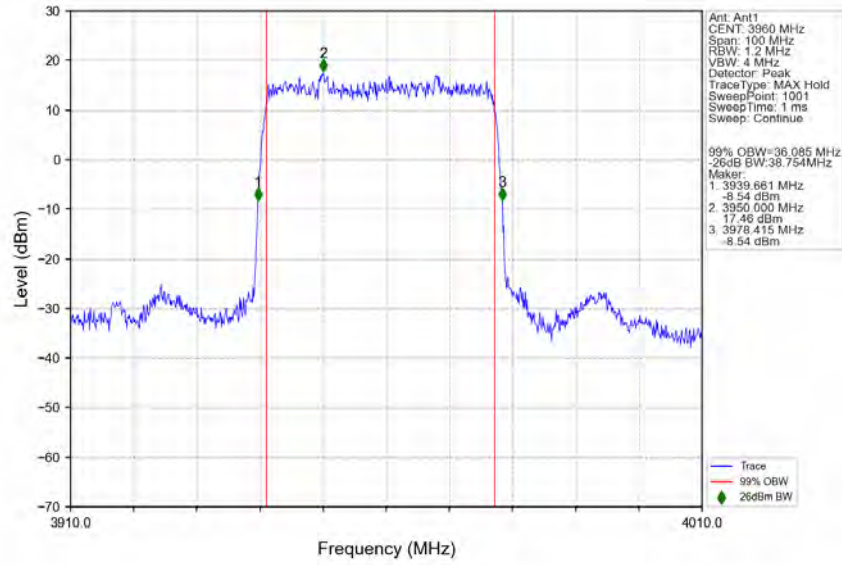
n77a 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3964.98MHz Outer Full Ant1



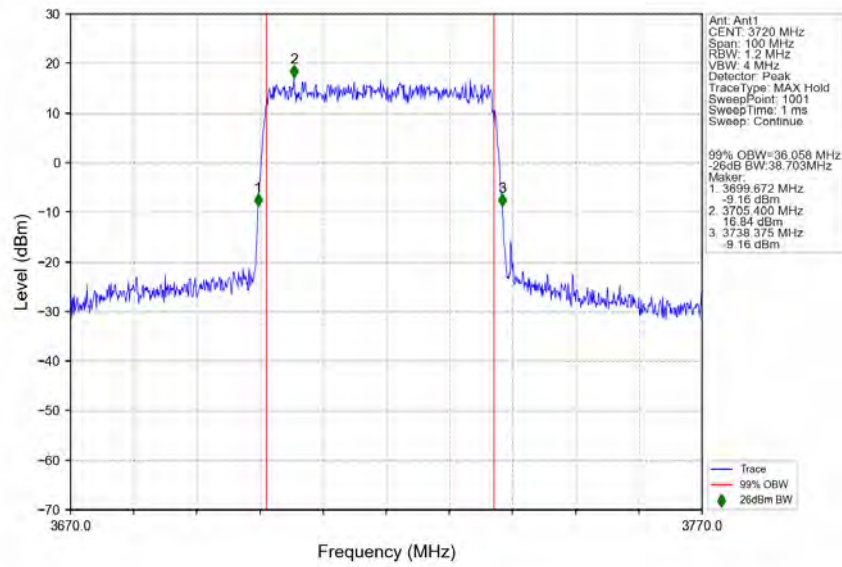
3.2.3 30k_SISO_40MHz_NTNV



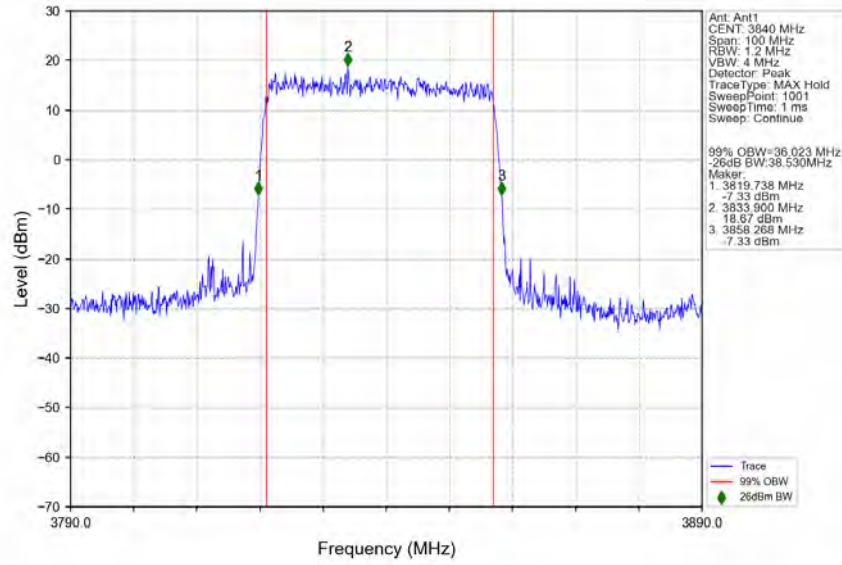
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM PI/2 BPSK 3960MHz Outer Full Ant1



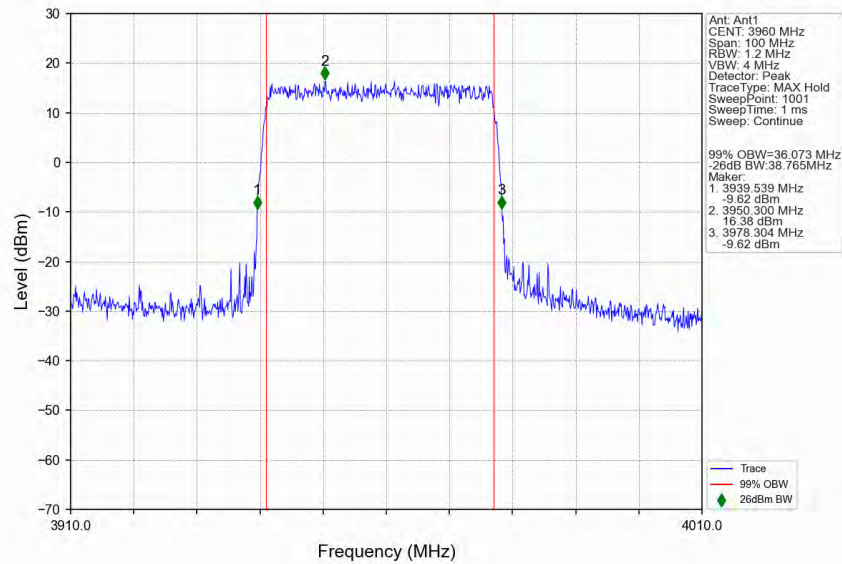
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3720MHz Outer Full Ant1



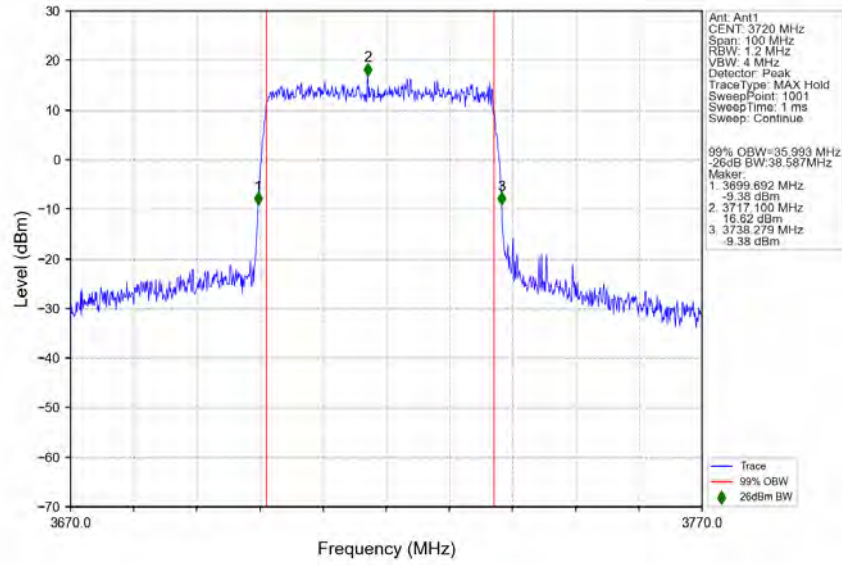
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3840MHz Outer Full Ant1



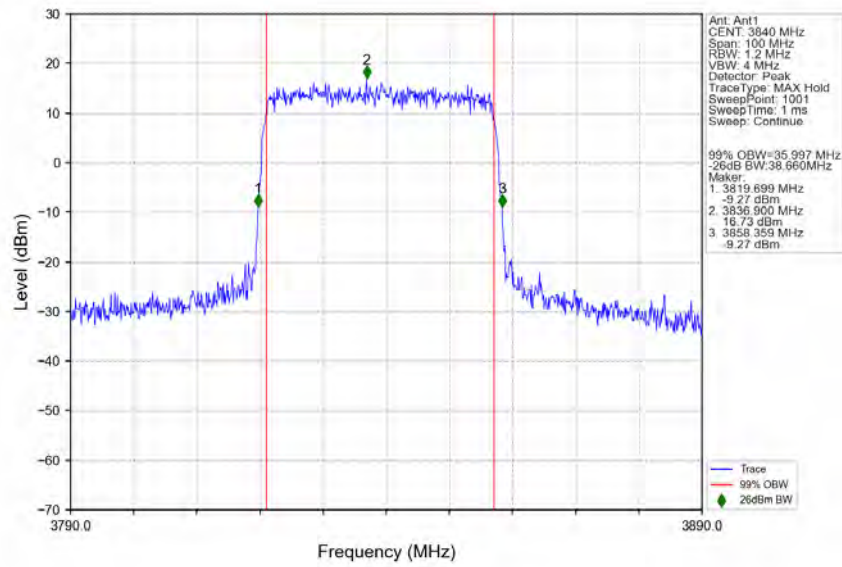
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3960MHz Outer Full Ant1



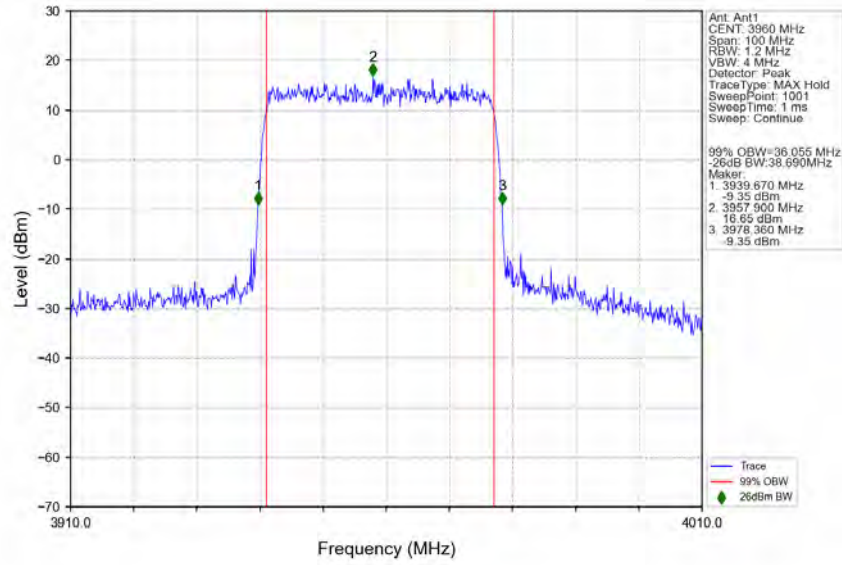
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3720MHz Outer Full Ant1



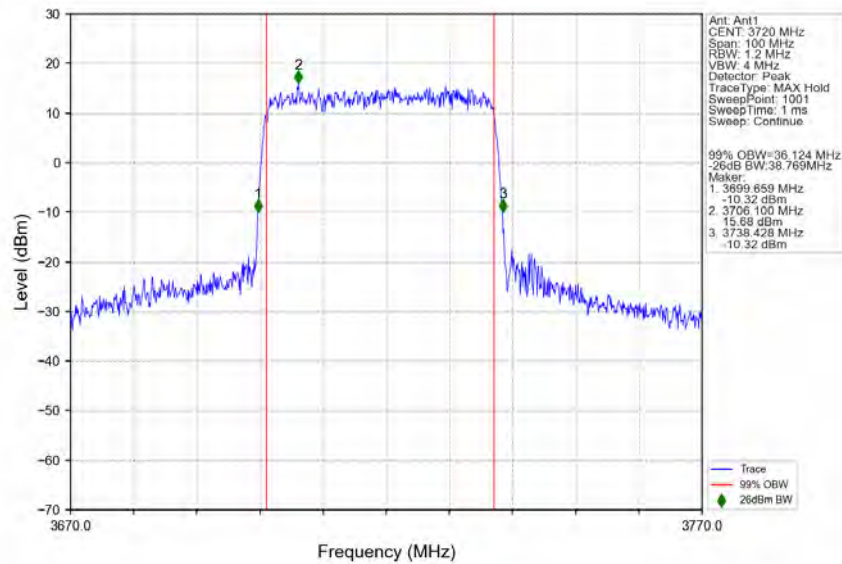
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3840MHz Outer Full Ant1



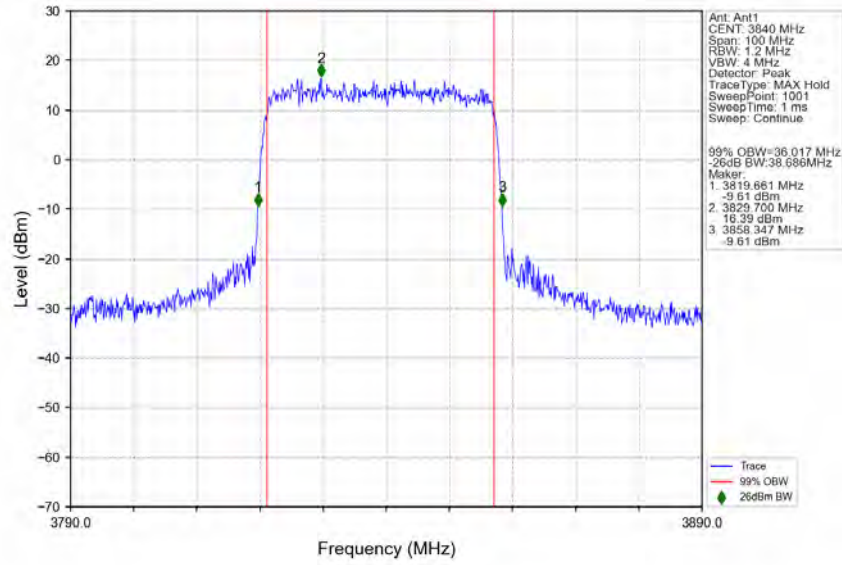
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3960MHz Outer Full Ant1



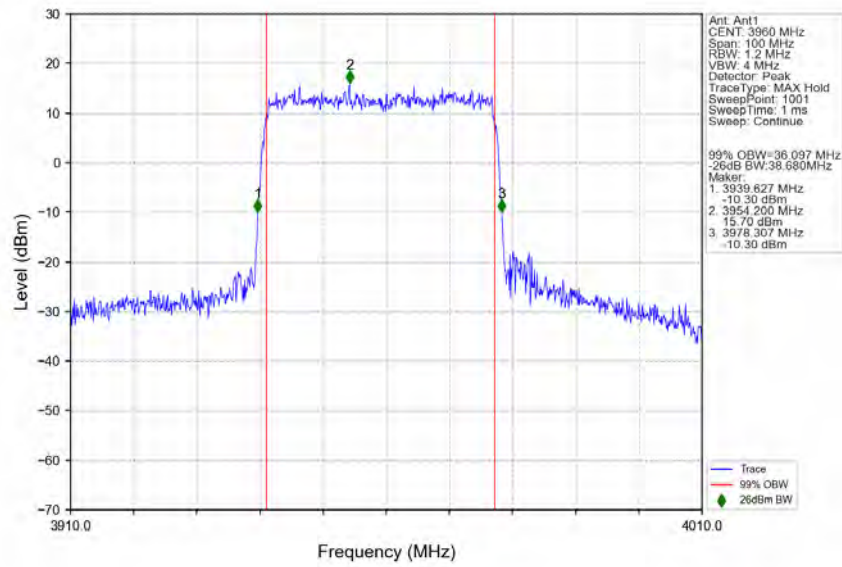
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 3720MHz Outer Full Ant1



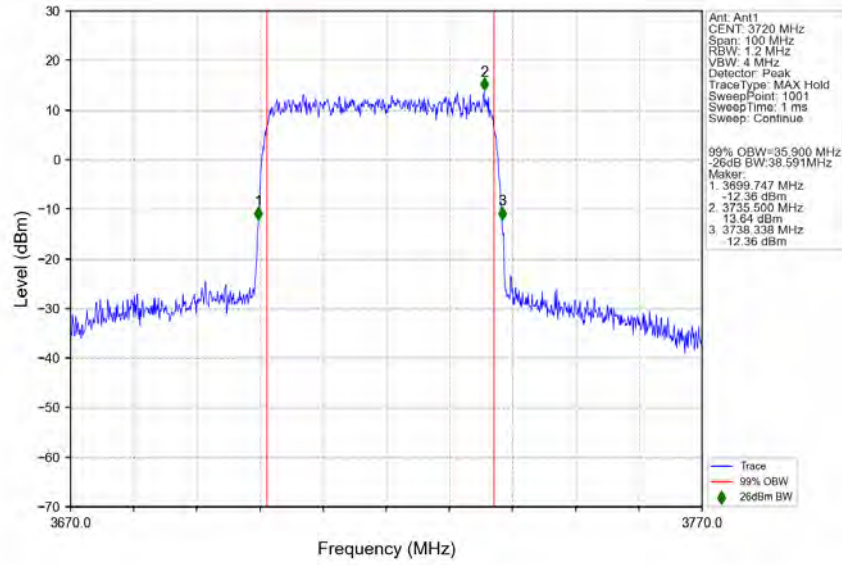
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 3840MHz Outer Full Ant1



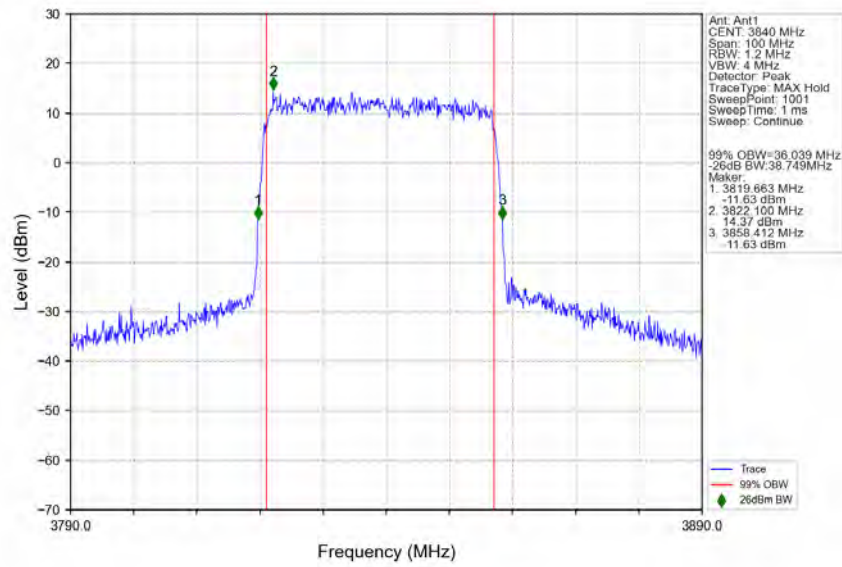
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM 64 QAM 3960MHz Outer Full Ant1



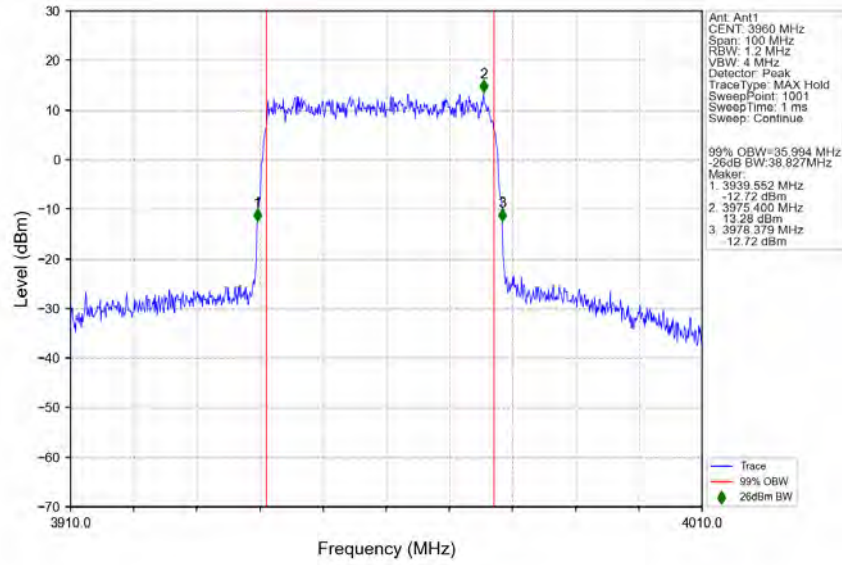
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 3720MHz Outer Full Ant1



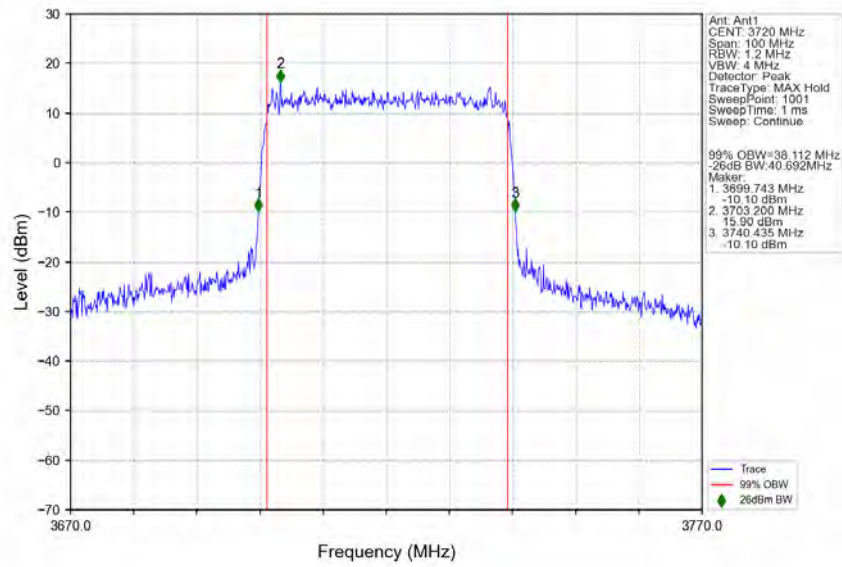
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 3840MHz Outer Full Ant1



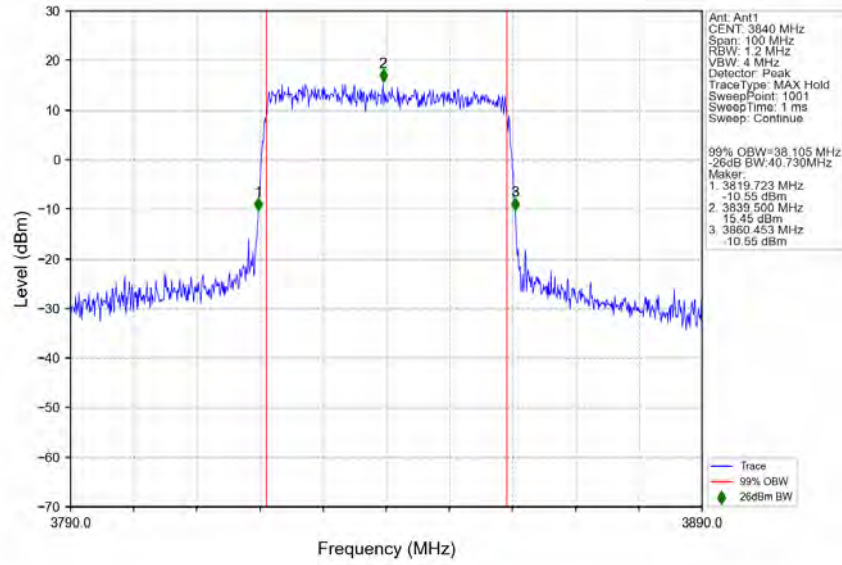
n77a 30kHz SISO NTN 40MHz DFT-s-OFDM 256 QAM 3960MHz Outer Full Ant1



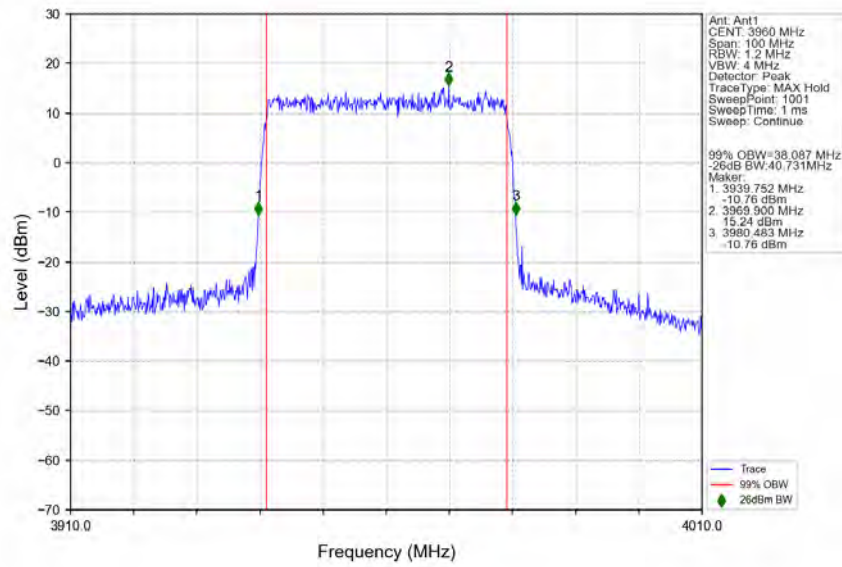
n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3720MHz Outer Full Ant1



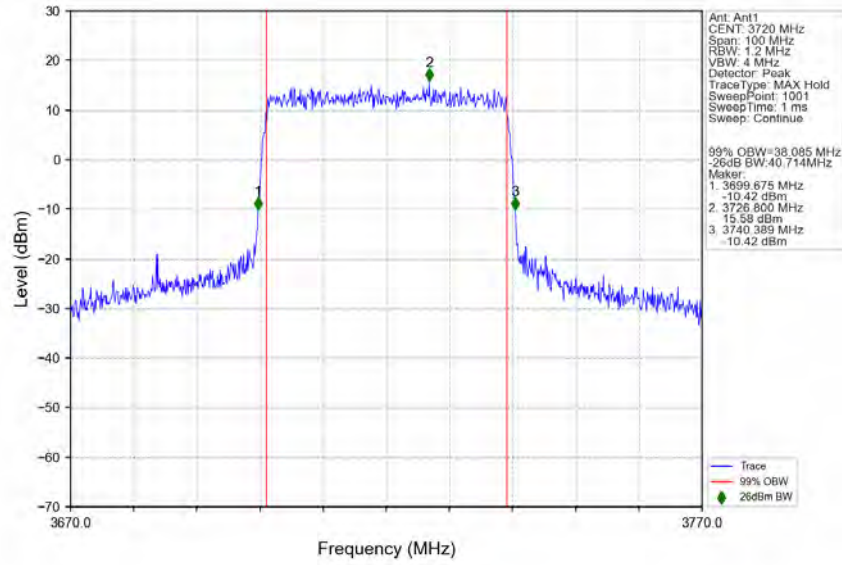
n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3840MHz Outer Full Ant1



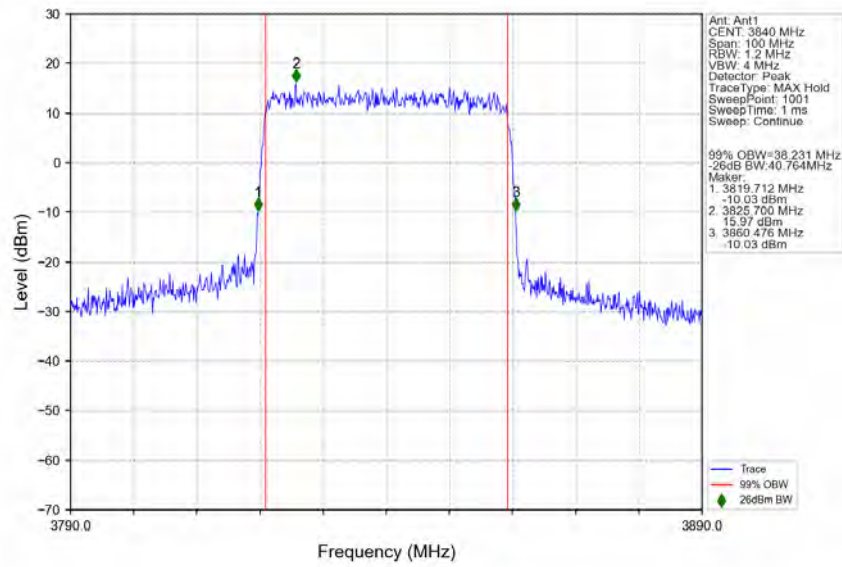
n77a 30kHz SISO NTN 40MHz CP-OFDM QPSK 3960MHz Outer Full Ant1



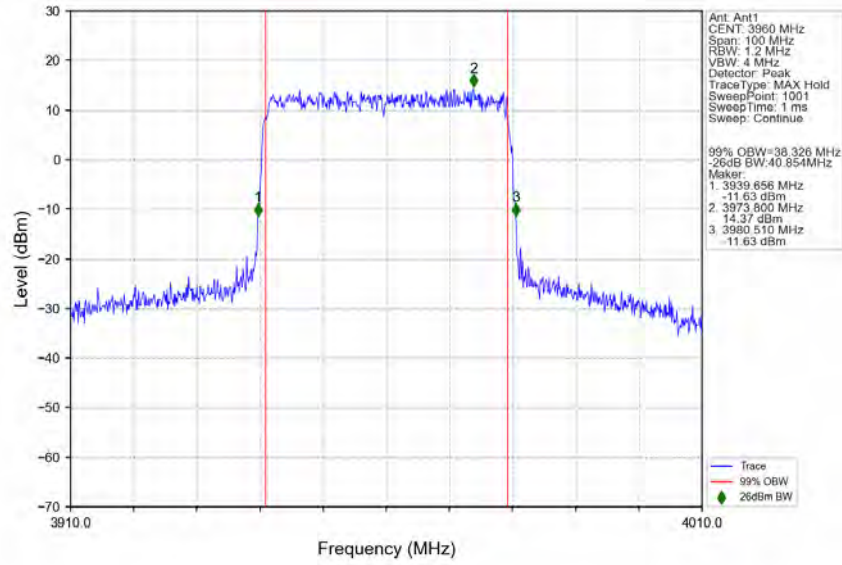
n77a 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 3720MHz Outer Full Ant1



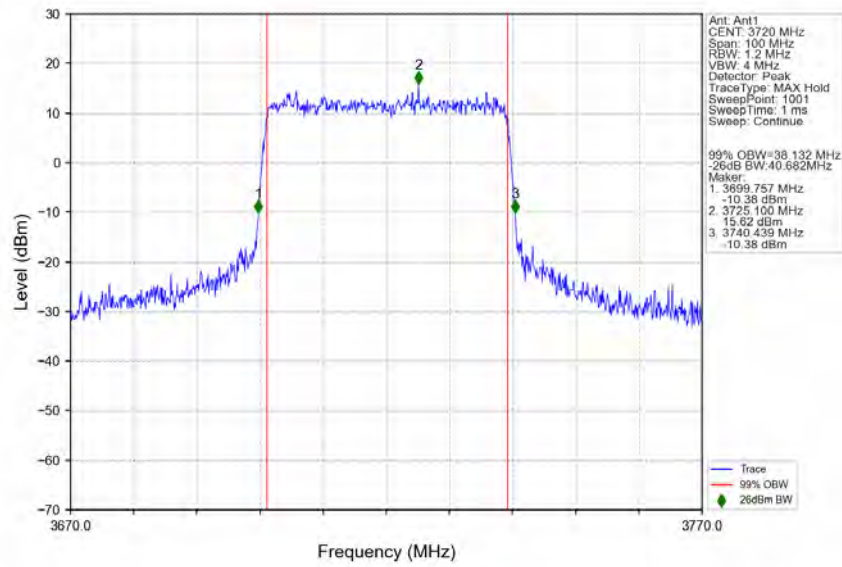
n77a 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 3840MHz Outer Full Ant1



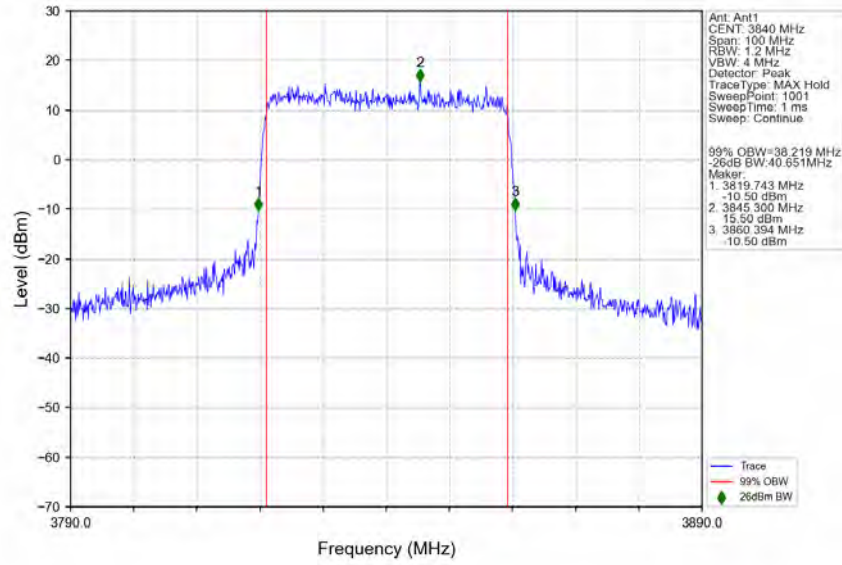
n77a 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 3960MHz Outer Full Ant1



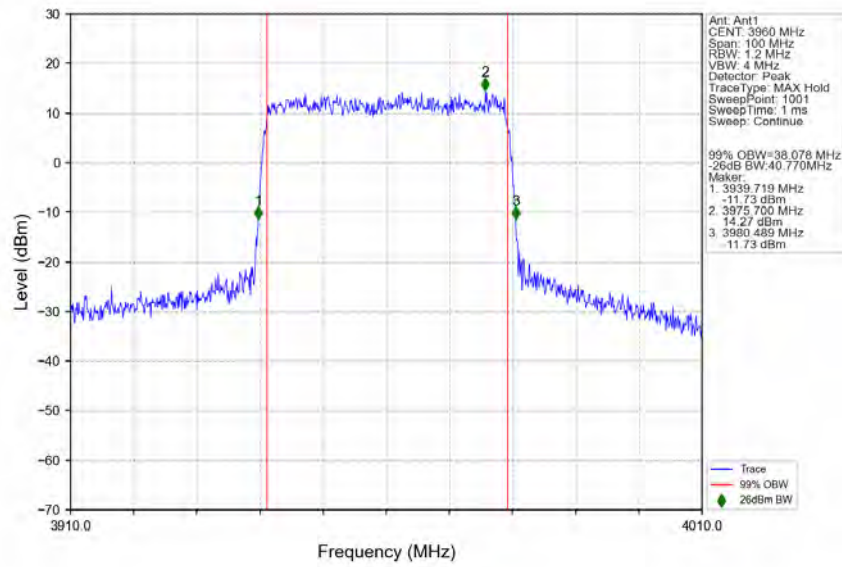
n77a 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3720MHz Outer Full Ant1



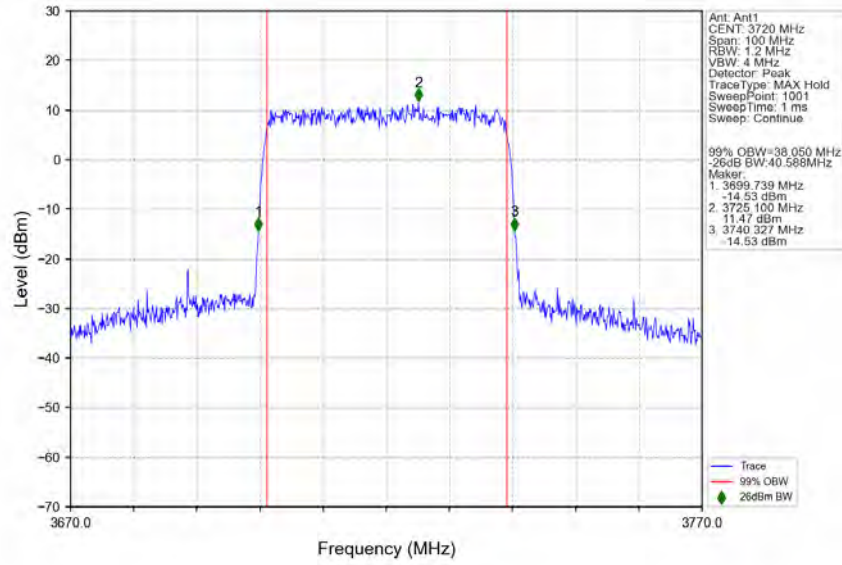
n77a 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3840MHz Outer Full Ant1



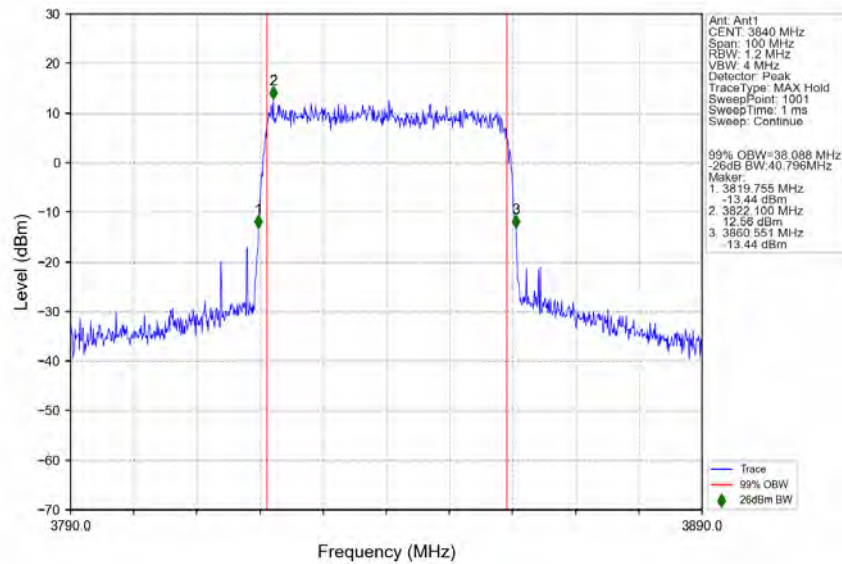
n77a 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3960MHz Outer Full Ant1



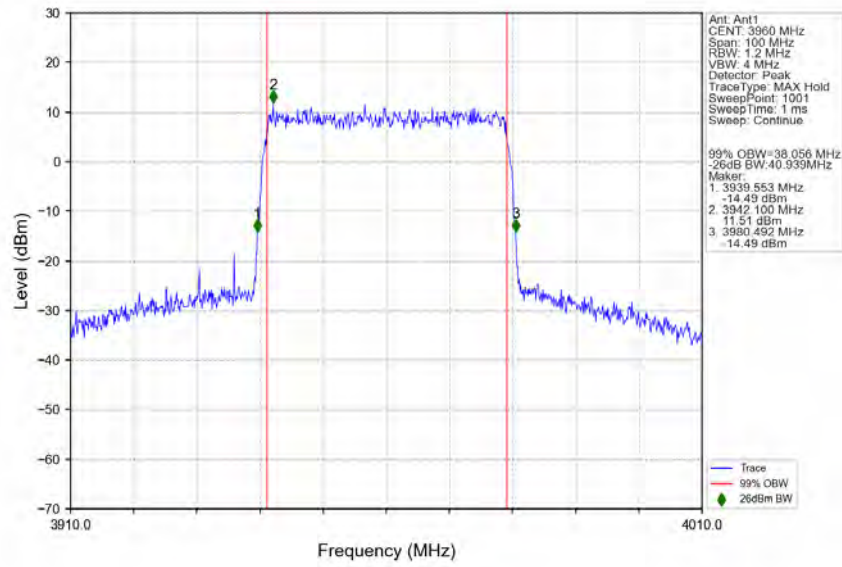
n77a 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3720MHz Outer Full Ant1



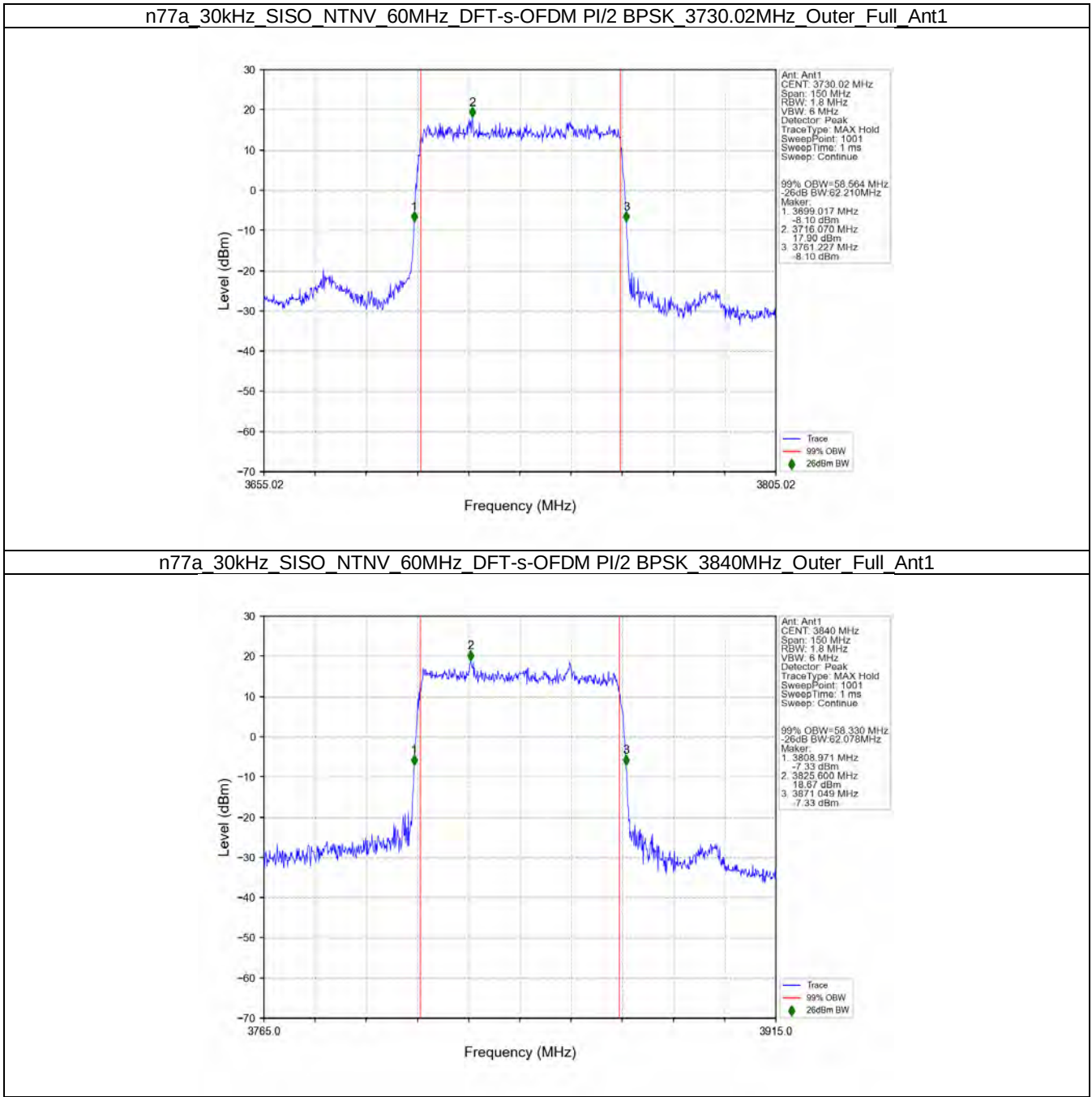
n77a 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3840MHz Outer Full Ant1



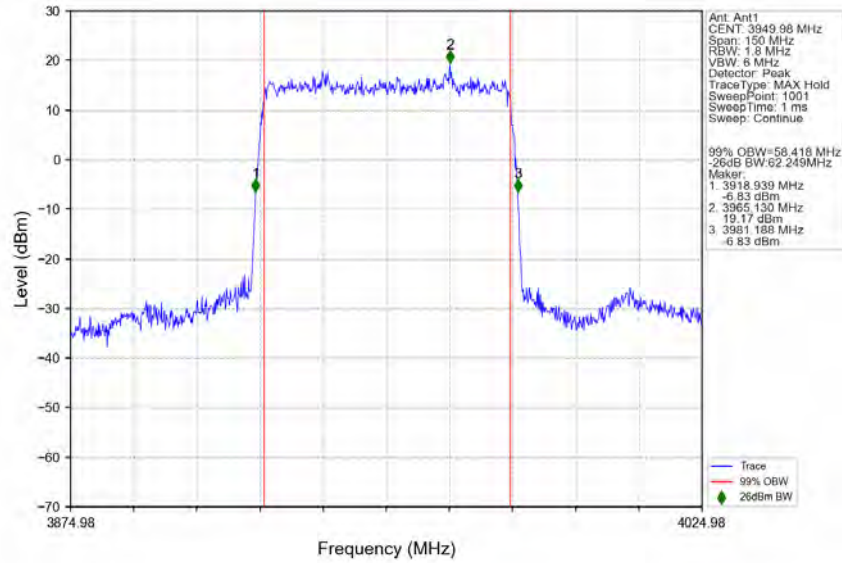
n77a 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3960MHz Outer Full Ant1



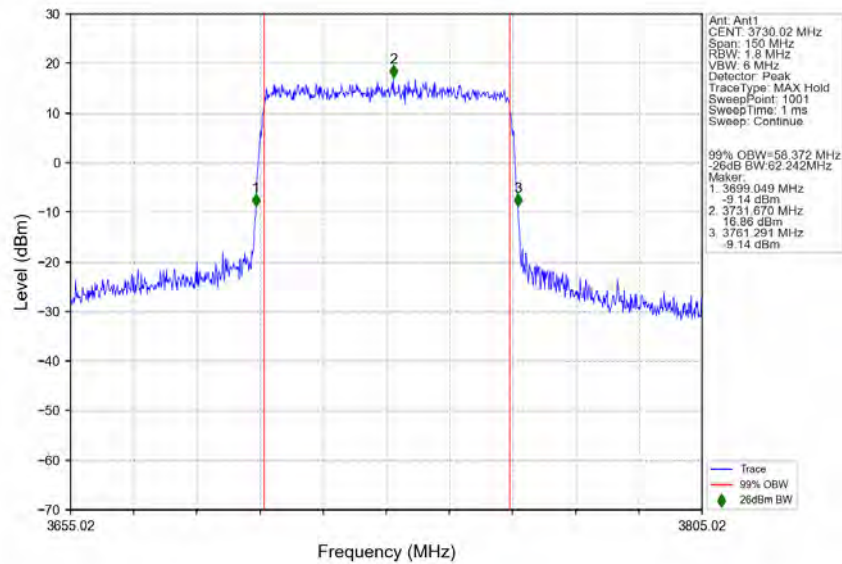
3.2.4 30k_SISO_60MHz_NTNV



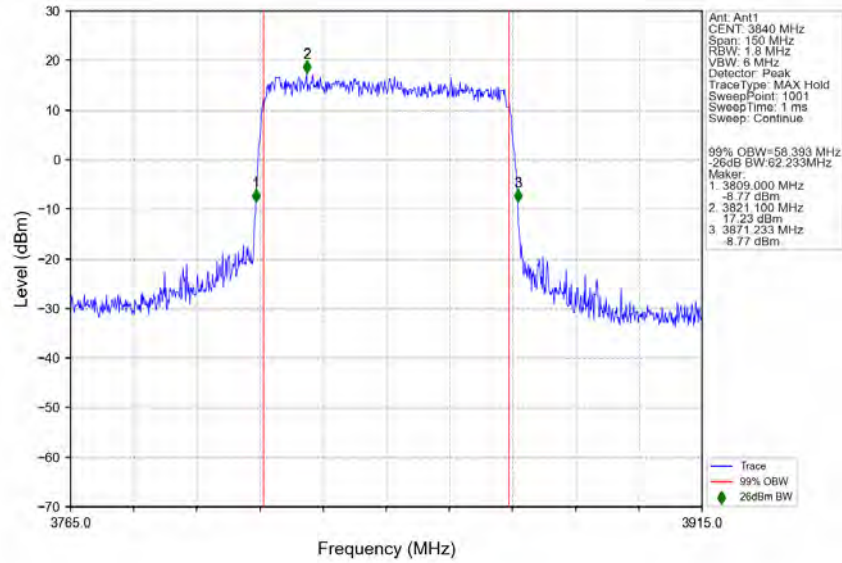
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3949.98MHz Outer Full Ant1



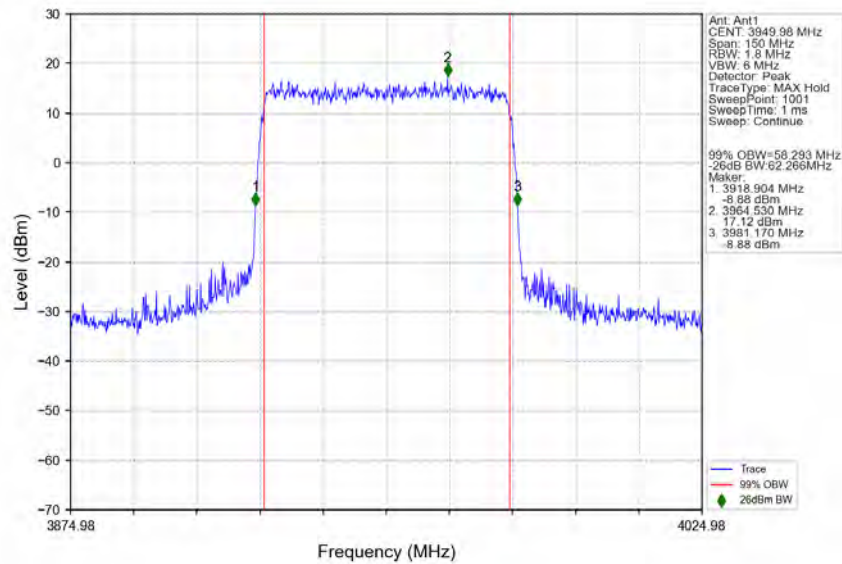
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3730.02MHz Outer Full Ant1



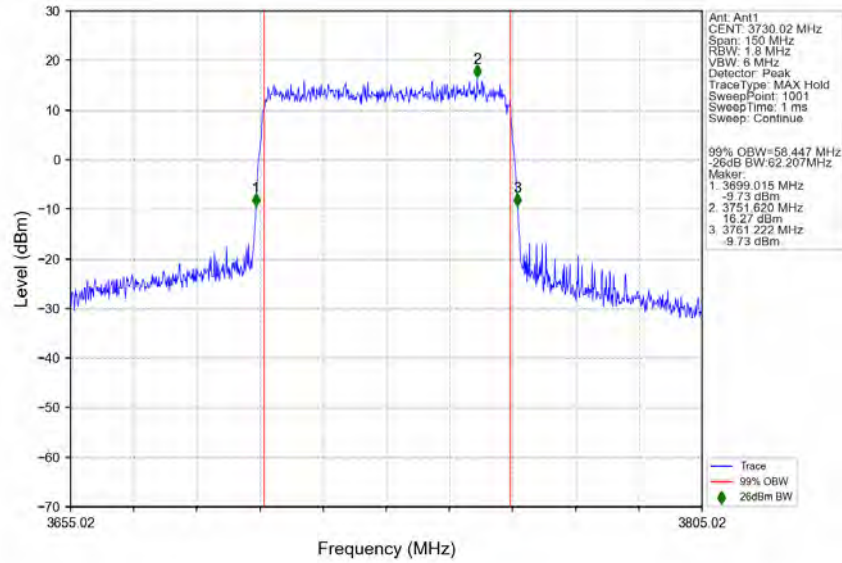
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3840MHz Outer Full Ant1



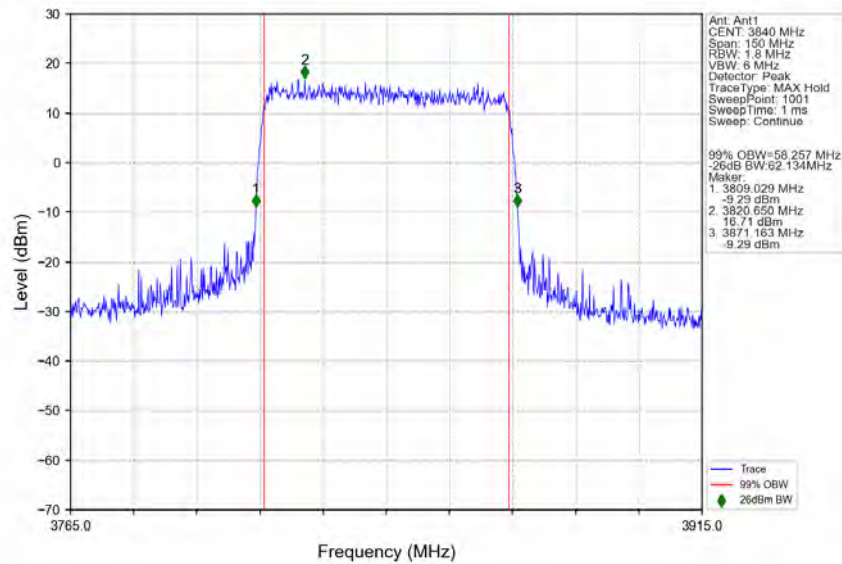
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3949.98MHz Outer Full Ant1



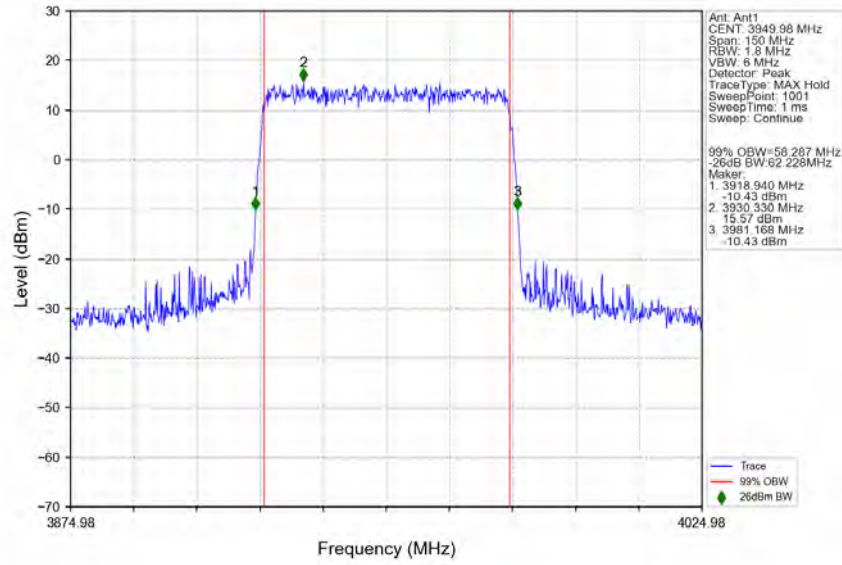
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM 16 QAM 3730.02MHz Outer Full Ant1



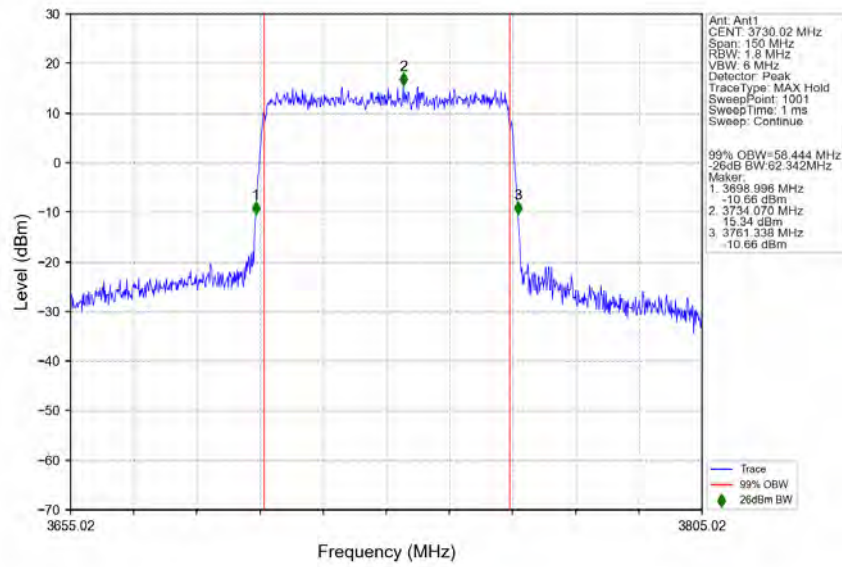
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM 16 QAM 3840MHz Outer Full Ant1



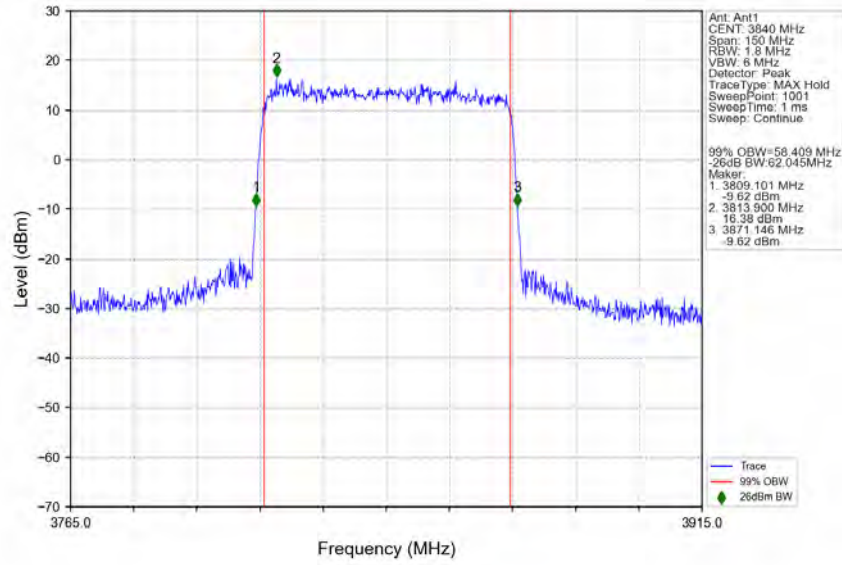
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM 16 QAM 3949.98MHz Outer Full Ant1



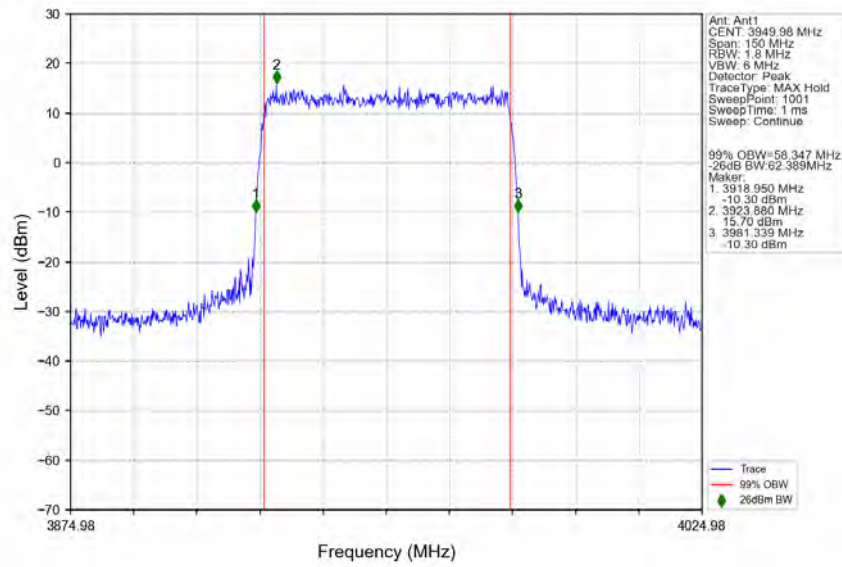
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM 64 QAM 3730.02MHz Outer Full Ant1



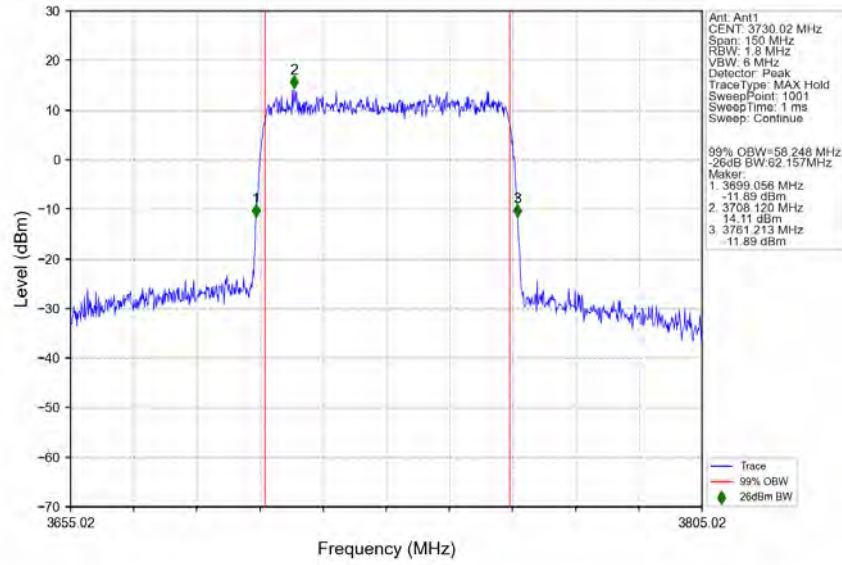
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM 64 QAM 3840MHz Outer Full Ant1



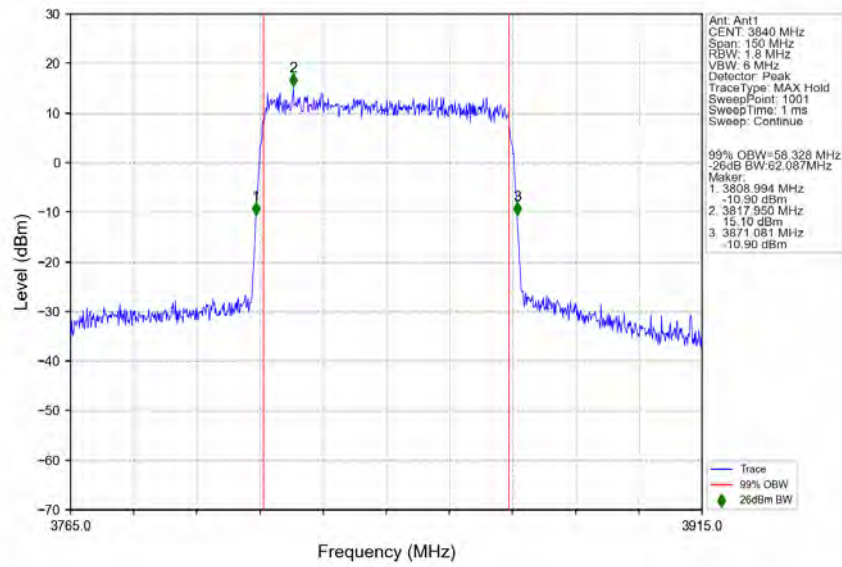
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM 64 QAM 3949.98MHz Outer Full Ant1



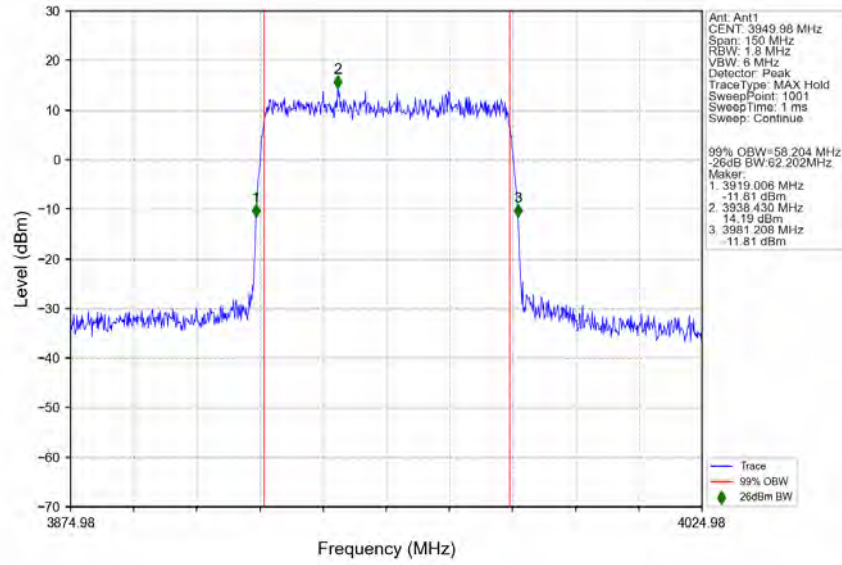
n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_256_QAM_3730.02MHz_Outer_Full_Ant1



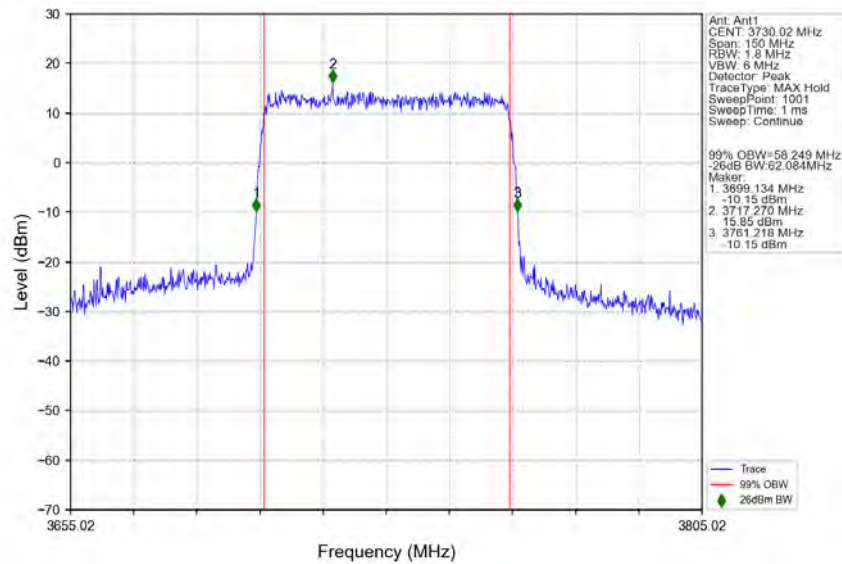
n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_256_QAM_3840MHz_Outer_Full_Ant1



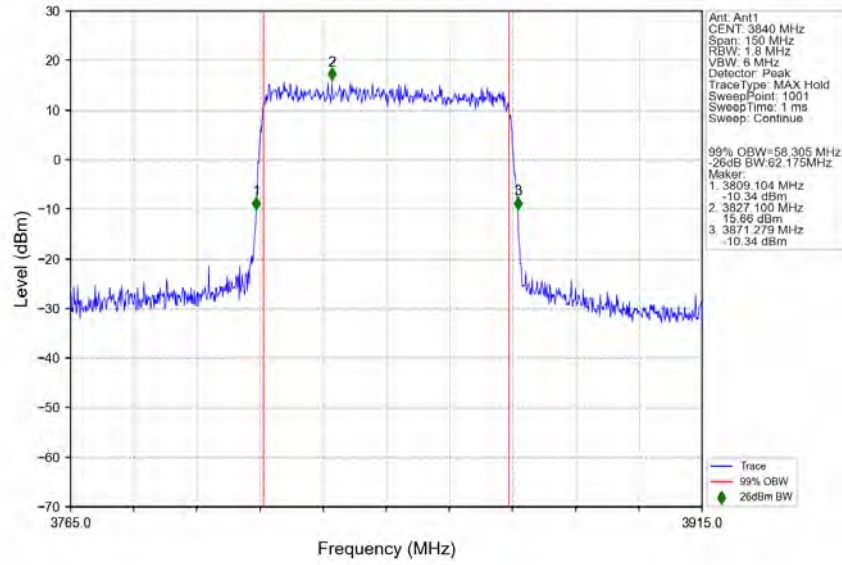
n77a 30kHz SISO NTN 60MHz DFT-s-OFDM 256 QAM 3949.98MHz Outer Full Ant1



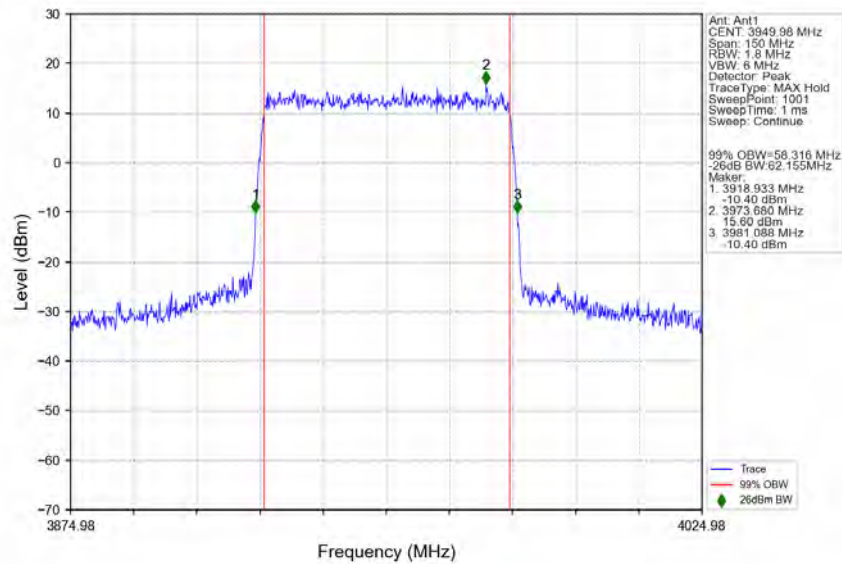
n77a 30kHz SISO NTN 60MHz CP-OFDM QPSK 3730.02MHz Outer Full Ant1



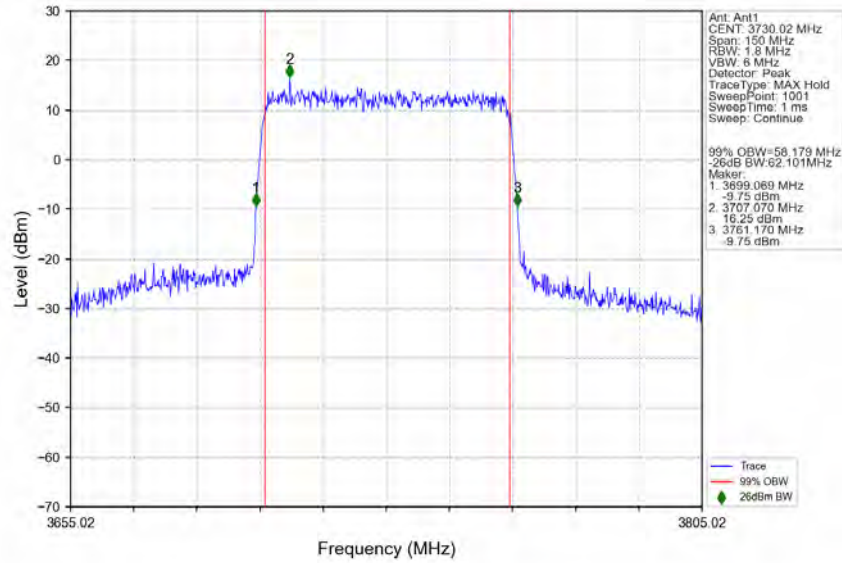
n77a 30kHz SISO NTN 60MHz CP-OFDM QPSK 3840MHz Outer Full Ant1



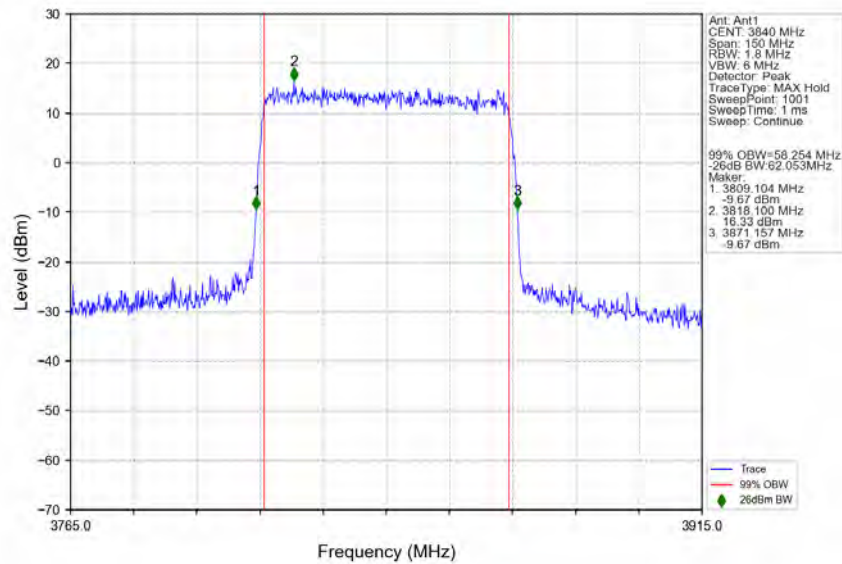
n77a 30kHz SISO NTN 60MHz CP-OFDM QPSK 3949.98MHz Outer Full Ant1



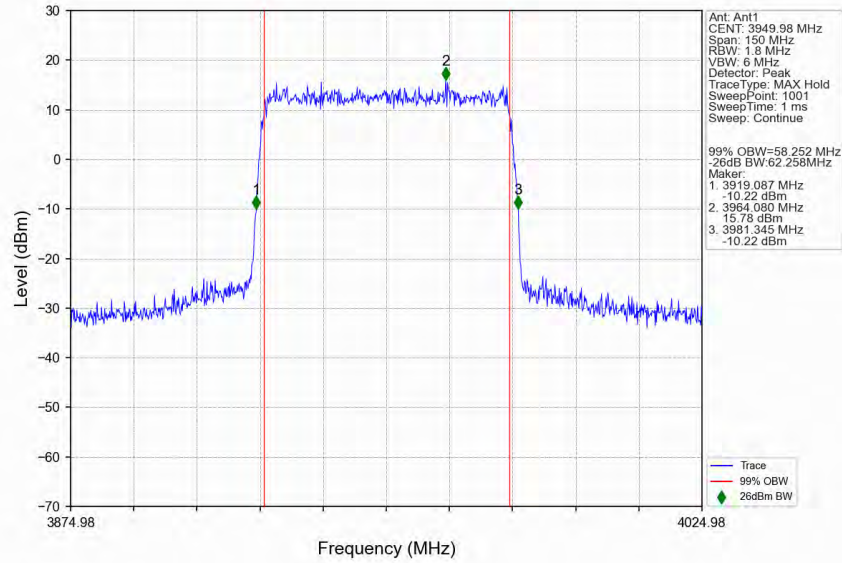
n77a 30kHz SISO NTN 60MHz CP-OFDM 16 QAM 3730.02MHz Outer Full Ant1



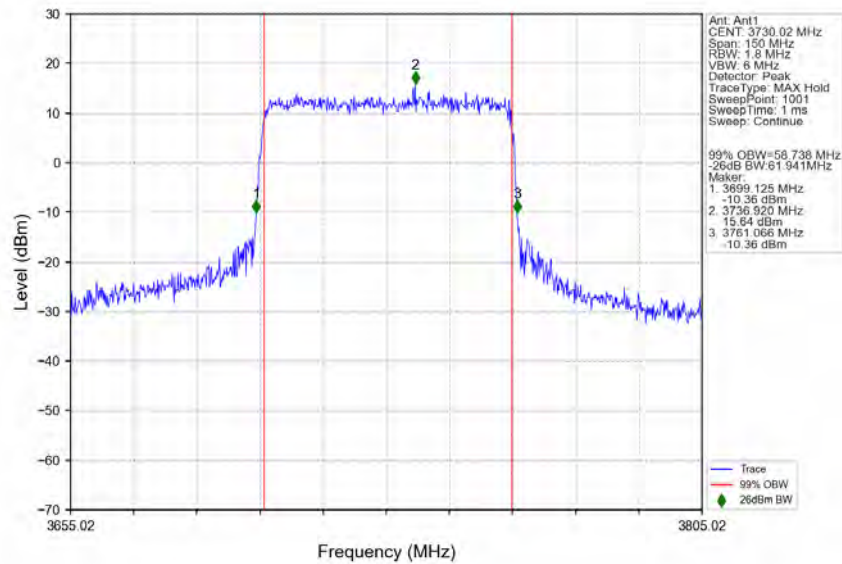
n77a 30kHz SISO NTN 60MHz CP-OFDM 16 QAM 3840MHz Outer Full Ant1



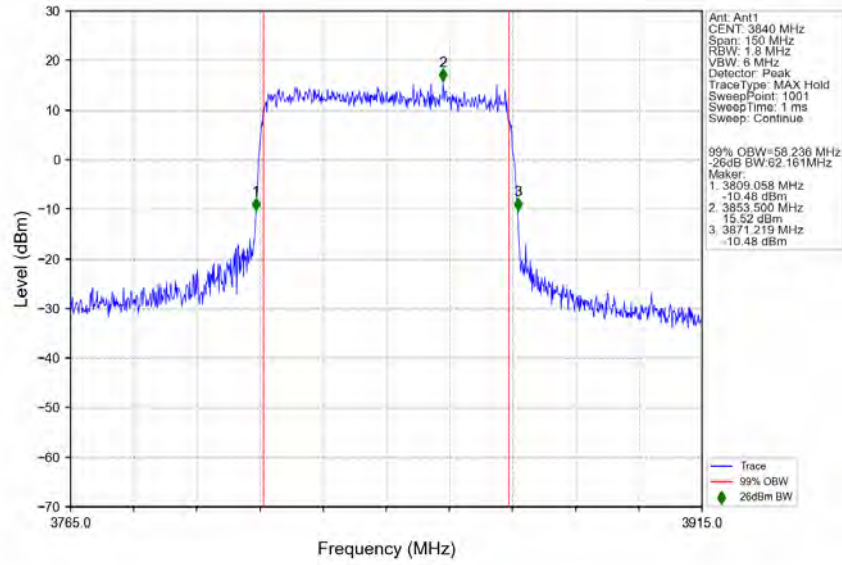
n77a 30kHz SISO NTN 60MHz CP-OFDM 16 QAM 3949.98MHz Outer Full Ant1



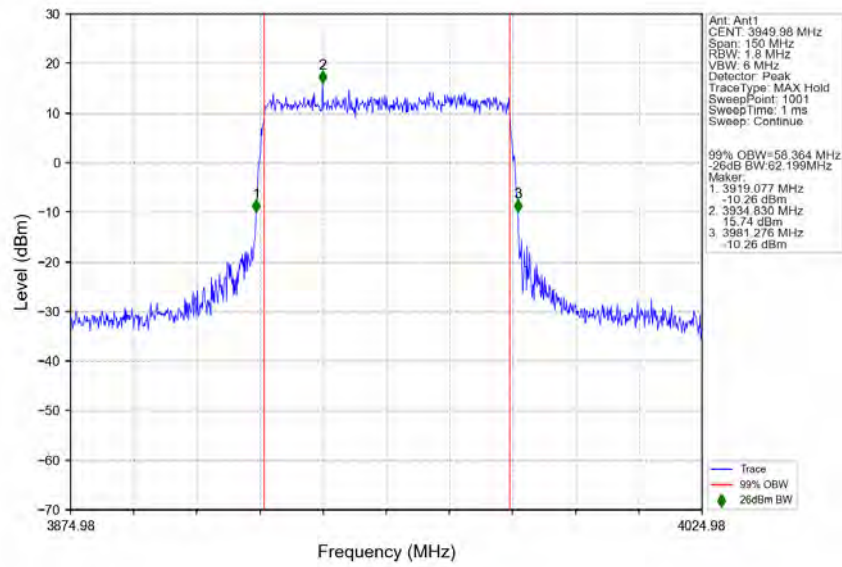
n77a 30kHz SISO NTN 60MHz CP-OFDM 64 QAM 3730.02MHz Outer Full Ant1



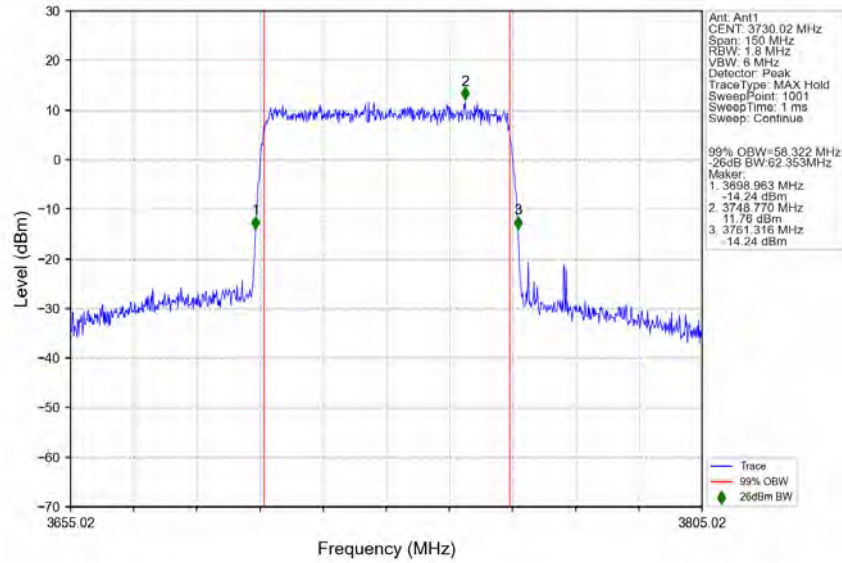
n77a 30kHz SISO NTN 60MHz CP-OFDM 64 QAM 3840MHz Outer Full Ant1



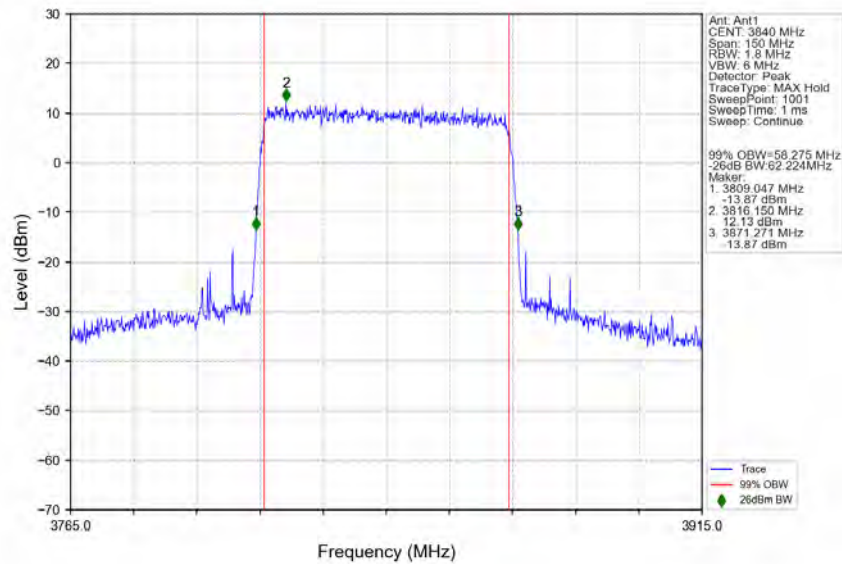
n77a 30kHz SISO NTN 60MHz CP-OFDM 64 QAM 3949.98MHz Outer Full Ant1



n77a 30kHz SISO NTN 60MHz CP-OFDM 256 QAM 3730.02MHz Outer Full Ant1



n77a 30kHz SISO NTN 60MHz CP-OFDM 256 QAM 3840MHz Outer Full Ant1



n77a 30kHz SISO NTN 60MHz CP-OFDM 256 QAM 3949.98MHz Outer Full Ant1

