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Appendix B.49

NR Band n77(3700-3980)



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1. Effective (Isotropic) Radiated Power Output Data

1.1 30k_SISO_20MHz_NTNV_EIRP

1.1.1 Test Result

5G NR n77a SCS=30kHz SISO 20MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)			Limit	Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum		
DFT-s-OFDM PI/2 BPSK	3710.01	Edge_1RB_Left	22.45	/	/	25.65	/	/	<=30	Pass
		Edge_1RB_Right	22.79	/	/	25.99	/	/	<=30	Pass
		Outer_Full	25.43	/	/	28.63	/	/	<=30	Pass
		Inner_Full	25.96	/	/	29.16	/	/	<=30	Pass
		Inner_1RB_Left	25.89	/	/	29.09	/	/	<=30	Pass
		Inner_1RB_Right	26.22	/	/	29.42	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.70	/	/	25.9	/	/	<=30	Pass
		Edge_1RB_Right	22.68	/	/	25.88	/	/	<=30	Pass
		Outer_Full	25.66	/	/	28.86	/	/	<=30	Pass
		Inner_Full	26.11	/	/	29.31	/	/	<=30	Pass
		Inner_1RB_Left	26.18	/	/	29.38	/	/	<=30	Pass
		Inner_1RB_Right	26.21	/	/	29.41	/	/	<=30	Pass
	3969.99	Edge_1RB_Left	22.79	/	/	25.99	/	/	<=30	Pass
		Edge_1RB_Right	22.52	/	/	25.72	/	/	<=30	Pass
		Outer_Full	25.58	/	/	28.78	/	/	<=30	Pass
		Inner_Full	26.06	/	/	29.26	/	/	<=30	Pass
		Inner_1RB_Left	26.27	/	/	29.47	/	/	<=30	Pass
		Inner_1RB_Right	26.06	/	/	29.26	/	/	<=30	Pass
DFT-s-OFDM QPSK	3710.01	Edge_1RB_Left	22.42	/	/	25.62	/	/	<=30	Pass
		Edge_1RB_Right	22.75	/	/	25.95	/	/	<=30	Pass
		Outer_Full	25.03	/	/	28.23	/	/	<=30	Pass
		Inner_Full	26.00	/	/	29.2	/	/	<=30	Pass
		Inner_1RB_Left	25.84	/	/	29.04	/	/	<=30	Pass
		Inner_1RB_Right	26.24	/	/	29.44	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.63	/	/	25.83	/	/	<=30	Pass
		Edge_1RB_Right	22.67	/	/	25.87	/	/	<=30	Pass
		Outer_Full	25.13	/	/	28.33	/	/	<=30	Pass
		Inner_Full	26.11	/	/	29.31	/	/	<=30	Pass
		Inner_1RB_Left	26.18	/	/	29.38	/	/	<=30	Pass
		Inner_1RB_Right	26.20	/	/	29.4	/	/	<=30	Pass
	3969.99	Edge_1RB_Left	22.76	/	/	25.96	/	/	<=30	Pass
		Edge_1RB_Right	22.55	/	/	25.75	/	/	<=30	Pass
		Outer_Full	25.16	/	/	28.36	/	/	<=30	Pass
		Inner_Full	25.99	/	/	29.19	/	/	<=30	Pass
		Inner_1RB_Left	26.26	/	/	29.46	/	/	<=30	Pass
		Inner_1RB_Right	25.99	/	/	29.19	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3710.01	Edge_1RB_Left	22.35	/	/	25.55	/	/	<=30	Pass



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		Edge_1RB_Right	22.73	/	/	25.93	/	/	<=30	Pass
		Outer_Full	23.92	/	/	27.12	/	/	<=30	Pass
		Inner_Full	24.87	/	/	28.07	/	/	<=30	Pass
		Inner_1RB_Left	24.78	/	/	27.98	/	/	<=30	Pass
		Inner_1RB_Right	25.11	/	/	28.31	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.56	/	/	25.76	/	/	<=30	Pass
		Edge_1RB_Right	22.62	/	/	25.82	/	/	<=30	Pass
		Outer_Full	24.16	/	/	27.36	/	/	<=30	Pass
		Inner_Full	25.08	/	/	28.28	/	/	<=30	Pass
		Inner_1RB_Left	25.01	/	/	28.21	/	/	<=30	Pass
	3969.99	Inner_1RB_Right	25.01	/	/	28.21	/	/	<=30	Pass
		Edge_1RB_Left	22.54	/	/	25.74	/	/	<=30	Pass
		Edge_1RB_Right	22.58	/	/	25.78	/	/	<=30	Pass
		Outer_Full	24.09	/	/	27.29	/	/	<=30	Pass
		Inner_Full	24.99	/	/	28.19	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3710.01	Inner_1RB_Left	25.23	/	/	28.43	/	/	<=30	Pass
		Inner_1RB_Right	25.05	/	/	28.25	/	/	<=30	Pass
		Edge_1RB_Left	22.39	/	/	25.59	/	/	<=30	Pass
		Edge_1RB_Right	22.76	/	/	25.96	/	/	<=30	Pass
		Outer_Full	23.48	/	/	26.68	/	/	<=30	Pass
	3840	Inner_Full	23.35	/	/	26.55	/	/	<=30	Pass
		Inner_1RB_Left	23.48	/	/	26.68	/	/	<=30	Pass
		Inner_1RB_Right	23.81	/	/	27.01	/	/	<=30	Pass
		Edge_1RB_Left	22.81	/	/	26.01	/	/	<=30	Pass
		Edge_1RB_Right	22.80	/	/	26	/	/	<=30	Pass
	3969.99	Outer_Full	23.67	/	/	26.87	/	/	<=30	Pass
		Inner_Full	23.60	/	/	26.8	/	/	<=30	Pass
		Inner_1RB_Left	23.66	/	/	26.86	/	/	<=30	Pass
		Inner_1RB_Right	23.76	/	/	26.96	/	/	<=30	Pass
		Edge_1RB_Left	22.75	/	/	25.95	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	3710.01	Edge_1RB_Right	22.63	/	/	25.83	/	/	<=30	Pass
		Outer_Full	23.58	/	/	26.78	/	/	<=30	Pass
		Inner_Full	23.52	/	/	26.72	/	/	<=30	Pass
		Inner_1RB_Left	23.59	/	/	26.79	/	/	<=30	Pass
		Inner_1RB_Right	23.53	/	/	26.73	/	/	<=30	Pass
3840	Edge_1RB_Left	21.36	/	/	24.56	/	/	<=30	Pass	
	Edge_1RB_Right	21.72	/	/	24.92	/	/	<=30	Pass	
	Outer_Full	21.49	/	/	24.69	/	/	<=30	Pass	
	Inner_Full	21.42	/	/	24.62	/	/	<=30	Pass	
	Inner_1RB_Left	21.32	/	/	24.52	/	/	<=30	Pass	
	Inner_1RB_Right	21.70	/	/	24.9	/	/	<=30	Pass	
	Edge_1RB_Left	21.57	/	/	24.77	/	/	<=30	Pass	
	Edge_1RB_Right	21.63	/	/	24.83	/	/	<=30	Pass	
	Outer_Full	21.65	/	/	24.85	/	/	<=30	Pass	
3969.99	Inner_Full	21.67	/	/	24.87	/	/	<=30	Pass	
	Inner_1RB_Left	21.59	/	/	24.79	/	/	<=30	Pass	
	Inner_1RB_Right	21.62	/	/	24.82	/	/	<=30	Pass	
	Edge_1RB_Left	21.85	/	/	25.05	/	/	<=30	Pass	



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		Edge_1RB_Right	21.58	/	/	24.78	/	/	<=30	Pass	
		Outer_Full	21.64	/	/	24.84	/	/	<=30	Pass	
		Inner_Full	21.52	/	/	24.72	/	/	<=30	Pass	
		Inner_1RB_Left	21.85	/	/	25.05	/	/	<=30	Pass	
		Inner_1RB_Right	21.51	/	/	24.71	/	/	<=30	Pass	
CP-OFDM QPSK	3710.01	Edge_1RB_Left	22.37	/	/	25.57	/	/	<=30	Pass	
		Edge_1RB_Right	22.85	/	/	26.05	/	/	<=30	Pass	
		Outer_Full	22.97	/	/	26.17	/	/	<=30	Pass	
		Inner_Full	24.37	/	/	27.57	/	/	<=30	Pass	
		Inner_1RB_Left	24.45	/	/	27.65	/	/	<=30	Pass	
	3840	Inner_1RB_Right	24.75	/	/	27.95	/	/	<=30	Pass	
		Edge_1RB_Left	22.68	/	/	25.88	/	/	<=30	Pass	
		Edge_1RB_Right	22.77	/	/	25.97	/	/	<=30	Pass	
		Outer_Full	23.15	/	/	26.35	/	/	<=30	Pass	
		Inner_Full	24.59	/	/	27.79	/	/	<=30	Pass	
	3969.99	Inner_1RB_Left	24.74	/	/	27.94	/	/	<=30	Pass	
		Inner_1RB_Right	24.80	/	/	28	/	/	<=30	Pass	
		Edge_1RB_Left	22.82	/	/	26.02	/	/	<=30	Pass	
		Edge_1RB_Right	22.50	/	/	25.7	/	/	<=30	Pass	
		Outer_Full	23.10	/	/	26.3	/	/	<=30	Pass	
CP-OFDM 16 QAM	3710.01	Inner_Full	24.51	/	/	27.71	/	/	<=30	Pass	
		Inner_1RB_Left	25.04	/	/	28.24	/	/	<=30	Pass	
		Inner_1RB_Right	24.59	/	/	27.79	/	/	<=30	Pass	
		Edge_1RB_Left	22.31	/	/	25.51	/	/	<=30	Pass	
		Edge_1RB_Right	22.71	/	/	25.91	/	/	<=30	Pass	
	3840	Outer_Full	22.95	/	/	26.15	/	/	<=30	Pass	
		Inner_Full	23.89	/	/	27.09	/	/	<=30	Pass	
		Inner_1RB_Left	23.80	/	/	27	/	/	<=30	Pass	
		Inner_1RB_Right	24.16	/	/	27.36	/	/	<=30	Pass	
		Edge_1RB_Left	22.59	/	/	25.79	/	/	<=30	Pass	
	3969.99	Edge_1RB_Right	22.56	/	/	25.76	/	/	<=30	Pass	
		Outer_Full	23.17	/	/	26.37	/	/	<=30	Pass	
		Inner_Full	24.11	/	/	27.31	/	/	<=30	Pass	
		Inner_1RB_Left	23.99	/	/	27.19	/	/	<=30	Pass	
		Inner_1RB_Right	24.03	/	/	27.23	/	/	<=30	Pass	
CP-OFDM 64 QAM	3710.01	Edge_1RB_Left	22.72	/	/	25.92	/	/	<=30	Pass	
		Edge_1RB_Right	22.60	/	/	25.8	/	/	<=30	Pass	
		Outer_Full	23.07	/	/	26.27	/	/	<=30	Pass	
		Inner_Full	24.03	/	/	27.23	/	/	<=30	Pass	
		Inner_1RB_Left	24.27	/	/	27.47	/	/	<=30	Pass	
	3840	Inner_1RB_Right	24.02	/	/	27.22	/	/	<=30	Pass	
		Edge_1RB_Left	22.47	/	/	25.67	/	/	<=30	Pass	
		Edge_1RB_Right	22.81	/	/	26.01	/	/	<=30	Pass	
		Outer_Full	22.48	/	/	25.68	/	/	<=30	Pass	
		Inner_Full	22.43	/	/	25.63	/	/	<=30	Pass	
			Inner_1RB_Left	22.40	/	/	25.6	/	/	<=30	Pass
			Inner_1RB_Right	22.84	/	/	26.04	/	/	<=30	Pass
		3840	Edge_1RB_Left	22.69	/	/	25.89	/	/	<=30	Pass



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CP-OFDM 256 QAM	3969.99	Edge_1RB_Right	22.77	/	/	25.97	/	/	<=30	Pass	
		Outer_Full	22.66	/	/	25.86	/	/	<=30	Pass	
		Inner_Full	22.62	/	/	25.82	/	/	<=30	Pass	
		Inner_1RB_Left	22.70	/	/	25.9	/	/	<=30	Pass	
		Inner_1RB_Right	22.75	/	/	25.95	/	/	<=30	Pass	
	3969.99	Edge_1RB_Left	22.79	/	/	25.99	/	/	<=30	Pass	
		Edge_1RB_Right	22.75	/	/	25.95	/	/	<=30	Pass	
		Outer_Full	22.55	/	/	25.75	/	/	<=30	Pass	
		Inner_Full	22.54	/	/	25.74	/	/	<=30	Pass	
		Inner_1RB_Left	22.79	/	/	25.99	/	/	<=30	Pass	
	3710.01	3840	Inner_1RB_Right	22.63	/	/	25.83	/	/	<=30	Pass
			Edge_1RB_Left	19.34	/	/	22.54	/	/	<=30	Pass
			Edge_1RB_Right	19.81	/	/	23.01	/	/	<=30	Pass
			Outer_Full	19.45	/	/	22.65	/	/	<=30	Pass
			Inner_Full	19.53	/	/	22.73	/	/	<=30	Pass
3969.99		Inner_1RB_Left	19.38	/	/	22.58	/	/	<=30	Pass	
		Inner_1RB_Right	19.76	/	/	22.96	/	/	<=30	Pass	
		Edge_1RB_Left	19.62	/	/	22.82	/	/	<=30	Pass	
		Edge_1RB_Right	19.69	/	/	22.89	/	/	<=30	Pass	
		Outer_Full	19.67	/	/	22.87	/	/	<=30	Pass	
3840	Inner_Full	19.64	/	/	22.84	/	/	<=30	Pass		
	Inner_1RB_Left	19.66	/	/	22.86	/	/	<=30	Pass		
	Inner_1RB_Right	19.79	/	/	22.99	/	/	<=30	Pass		
	Edge_1RB_Left	19.84	/	/	23.04	/	/	<=30	Pass		
	Edge_1RB_Right	19.64	/	/	22.84	/	/	<=30	Pass		
3969.99	Outer_Full	19.70	/	/	22.9	/	/	<=30	Pass		
	Inner_Full	19.69	/	/	22.89	/	/	<=30	Pass		
	Inner_1RB_Left	19.89	/	/	23.09	/	/	<=30	Pass		
	Inner_1RB_Right	19.60	/	/	22.8	/	/	<=30	Pass		

Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi;
Note2: EIRP=Conducted Power+Antenna Gain

1.2 30k_SISO_30MHz_NTNV_EIRP

1.2.1 Test Result

5G NR n77a SCS=30kHz SISO 30MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3715.02	Edge_1RB_Left	22.37	/	/	25.57	/	/	<=30	Pass
		Edge_1RB_Right	22.96	/	/	26.16	/	/	<=30	Pass
		Outer_Full	25.61	/	/	28.81	/	/	<=30	Pass
		Inner_Full	26.05	/	/	29.25	/	/	<=30	Pass
		Inner_1RB_Left	25.82	/	/	29.02	/	/	<=30	Pass
	Inner_1RB_Right	26.42	/	/	29.62	/	/	<=30	Pass	
	3840	Edge_1RB_Left	22.91	/	/	26.11	/	/	<=30	Pass



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		Edge_1RB_Right	22.77	/	/	25.97	/	/	<=30	Pass
		Outer_Full	25.71	/	/	28.91	/	/	<=30	Pass
		Inner_Full	26.12	/	/	29.32	/	/	<=30	Pass
		Inner_1RB_Left	26.43	/	/	29.63	/	/	<=30	Pass
		Inner_1RB_Right	26.30	/	/	29.5	/	/	<=30	Pass
	3964.98	Edge_1RB_Left	23.04	/	/	26.24	/	/	<=30	Pass
		Edge_1RB_Right	22.73	/	/	25.93	/	/	<=30	Pass
		Outer_Full	25.80	/	/	29	/	/	<=30	Pass
		Inner_Full	26.23	/	/	29.43	/	/	<=30	Pass
		Inner_1RB_Left	26.55	/	/	29.75	/	/	<=30	Pass
DFT-s-OFDM QPSK	3715.02	Inner_1RB_Right	26.15	/	/	29.35	/	/	<=30	Pass
		Edge_1RB_Left	22.37	/	/	25.57	/	/	<=30	Pass
		Edge_1RB_Right	23.02	/	/	26.22	/	/	<=30	Pass
		Outer_Full	25.06	/	/	28.26	/	/	<=30	Pass
		Inner_Full	26.02	/	/	29.22	/	/	<=30	Pass
	3840	Inner_1RB_Left	25.82	/	/	29.02	/	/	<=30	Pass
		Inner_1RB_Right	26.48	/	/	29.68	/	/	<=30	Pass
		Edge_1RB_Left	22.95	/	/	26.15	/	/	<=30	Pass
		Edge_1RB_Right	22.78	/	/	25.98	/	/	<=30	Pass
		Outer_Full	25.17	/	/	28.37	/	/	<=30	Pass
3964.98	Inner_Full	26.19	/	/	29.39	/	/	<=30	Pass	
	Inner_1RB_Left	26.41	/	/	29.61	/	/	<=30	Pass	
	Inner_1RB_Right	26.24	/	/	29.44	/	/	<=30	Pass	
	Edge_1RB_Left	23.05	/	/	26.25	/	/	<=30	Pass	
	Edge_1RB_Right	22.63	/	/	25.83	/	/	<=30	Pass	
DFT-s-OFDM 16 QAM	3715.02	Outer_Full	25.30	/	/	28.5	/	/	<=30	Pass
		Inner_Full	26.28	/	/	29.48	/	/	<=30	Pass
		Inner_1RB_Left	26.49	/	/	29.69	/	/	<=30	Pass
		Inner_1RB_Right	26.15	/	/	29.35	/	/	<=30	Pass
		Edge_1RB_Left	22.27	/	/	25.47	/	/	<=30	Pass
	3840	Edge_1RB_Right	22.96	/	/	26.16	/	/	<=30	Pass
		Outer_Full	24.14	/	/	27.34	/	/	<=30	Pass
		Inner_Full	25.04	/	/	28.24	/	/	<=30	Pass
		Inner_1RB_Left	24.66	/	/	27.86	/	/	<=30	Pass
		Inner_1RB_Right	25.40	/	/	28.6	/	/	<=30	Pass
3964.98	Edge_1RB_Left	22.78	/	/	25.98	/	/	<=30	Pass	
	Edge_1RB_Right	22.65	/	/	25.85	/	/	<=30	Pass	
	Outer_Full	24.21	/	/	27.41	/	/	<=30	Pass	
	Inner_Full	25.05	/	/	28.25	/	/	<=30	Pass	
	Inner_1RB_Left	25.19	/	/	28.39	/	/	<=30	Pass	
DFT-s-OFDM 64 QAM	3715.02	Inner_1RB_Right	25.07	/	/	28.27	/	/	<=30	Pass
		Edge_1RB_Left	22.99	/	/	26.19	/	/	<=30	Pass
		Edge_1RB_Right	22.57	/	/	25.77	/	/	<=30	Pass
		Outer_Full	24.37	/	/	27.57	/	/	<=30	Pass
		Inner_Full	25.25	/	/	28.45	/	/	<=30	Pass
		Inner_1RB_Left	25.35	/	/	28.55	/	/	<=30	Pass
		Inner_1RB_Right	25.05	/	/	28.25	/	/	<=30	Pass
		Edge_1RB_Left	22.48	/	/	25.68	/	/	<=30	Pass



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		Edge_1RB_Right	23.08	/	/	26.28	/	/	<=30	Pass
		Outer_Full	23.68	/	/	26.88	/	/	<=30	Pass
		Inner_Full	23.69	/	/	26.89	/	/	<=30	Pass
		Inner_1RB_Left	23.37	/	/	26.57	/	/	<=30	Pass
		Inner_1RB_Right	24.11	/	/	27.31	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.96	/	/	26.16	/	/	<=30	Pass
		Edge_1RB_Right	22.85	/	/	26.05	/	/	<=30	Pass
		Outer_Full	23.70	/	/	26.9	/	/	<=30	Pass
		Inner_Full	23.65	/	/	26.85	/	/	<=30	Pass
		Inner_1RB_Left	23.93	/	/	27.13	/	/	<=30	Pass
	3964.98	Inner_1RB_Right	23.79	/	/	26.99	/	/	<=30	Pass
		Edge_1RB_Left	23.18	/	/	26.38	/	/	<=30	Pass
		Edge_1RB_Right	22.72	/	/	25.92	/	/	<=30	Pass
		Outer_Full	23.82	/	/	27.02	/	/	<=30	Pass
		Inner_Full	23.75	/	/	26.95	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	3715.02	Inner_1RB_Left	24.08	/	/	27.28	/	/	<=30	Pass
		Inner_1RB_Right	23.75	/	/	26.95	/	/	<=30	Pass
		Edge_1RB_Left	21.24	/	/	24.44	/	/	<=30	Pass
		Edge_1RB_Right	21.89	/	/	25.09	/	/	<=30	Pass
		Outer_Full	21.59	/	/	24.79	/	/	<=30	Pass
	3840	Inner_Full	21.50	/	/	24.7	/	/	<=30	Pass
		Inner_1RB_Left	21.21	/	/	24.41	/	/	<=30	Pass
		Inner_1RB_Right	21.88	/	/	25.08	/	/	<=30	Pass
		Edge_1RB_Left	21.86	/	/	25.06	/	/	<=30	Pass
		Edge_1RB_Right	21.71	/	/	24.91	/	/	<=30	Pass
	3964.98	Outer_Full	21.70	/	/	24.9	/	/	<=30	Pass
		Inner_Full	21.52	/	/	24.72	/	/	<=30	Pass
		Inner_1RB_Left	21.87	/	/	25.07	/	/	<=30	Pass
		Inner_1RB_Right	21.64	/	/	24.84	/	/	<=30	Pass
		Edge_1RB_Left	22.00	/	/	25.2	/	/	<=30	Pass
CP-OFDM QPSK	3715.02	Edge_1RB_Right	21.66	/	/	24.86	/	/	<=30	Pass
		Outer_Full	21.78	/	/	24.98	/	/	<=30	Pass
		Inner_Full	21.74	/	/	24.94	/	/	<=30	Pass
		Inner_1RB_Left	22.04	/	/	25.24	/	/	<=30	Pass
		Inner_1RB_Right	21.65	/	/	24.85	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.39	/	/	25.59	/	/	<=30	Pass
		Edge_1RB_Right	22.96	/	/	26.16	/	/	<=30	Pass
		Outer_Full	23.11	/	/	26.31	/	/	<=30	Pass
		Inner_Full	24.49	/	/	27.69	/	/	<=30	Pass
		Inner_1RB_Left	24.26	/	/	27.46	/	/	<=30	Pass
	3964.98	Inner_1RB_Right	24.93	/	/	28.13	/	/	<=30	Pass
		Edge_1RB_Left	22.93	/	/	26.13	/	/	<=30	Pass
		Edge_1RB_Right	22.90	/	/	26.1	/	/	<=30	Pass
		Outer_Full	23.28	/	/	26.48	/	/	<=30	Pass
		Inner_Full	24.56	/	/	27.76	/	/	<=30	Pass
		Inner_1RB_Left	24.85	/	/	28.05	/	/	<=30	Pass
		Inner_1RB_Right	24.68	/	/	27.88	/	/	<=30	Pass
		Edge_1RB_Left	23.24	/	/	26.44	/	/	<=30	Pass



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		Edge_1RB_Right	22.70	/	/	25.9	/	/	<=30	Pass
		Outer_Full	23.27	/	/	26.47	/	/	<=30	Pass
		Inner_Full	24.75	/	/	27.95	/	/	<=30	Pass
		Inner_1RB_Left	24.98	/	/	28.18	/	/	<=30	Pass
		Inner_1RB_Right	24.69	/	/	27.89	/	/	<=30	Pass
CP-OFDM 16 QAM	3715.02	Edge_1RB_Left	22.25	/	/	25.45	/	/	<=30	Pass
		Edge_1RB_Right	22.88	/	/	26.08	/	/	<=30	Pass
		Outer_Full	23.15	/	/	26.35	/	/	<=30	Pass
		Inner_Full	24.02	/	/	27.22	/	/	<=30	Pass
		Inner_1RB_Left	23.71	/	/	26.91	/	/	<=30	Pass
	3840	Inner_1RB_Right	24.37	/	/	27.57	/	/	<=30	Pass
		Edge_1RB_Left	22.81	/	/	26.01	/	/	<=30	Pass
		Edge_1RB_Right	22.77	/	/	25.97	/	/	<=30	Pass
		Outer_Full	23.19	/	/	26.39	/	/	<=30	Pass
		Inner_Full	24.11	/	/	27.31	/	/	<=30	Pass
	3964.98	Inner_1RB_Left	24.28	/	/	27.48	/	/	<=30	Pass
		Inner_1RB_Right	24.10	/	/	27.3	/	/	<=30	Pass
		Edge_1RB_Left	22.91	/	/	26.11	/	/	<=30	Pass
		Edge_1RB_Right	22.53	/	/	25.73	/	/	<=30	Pass
		Outer_Full	23.37	/	/	26.57	/	/	<=30	Pass
CP-OFDM 64 QAM	3715.02	Inner_Full	24.25	/	/	27.45	/	/	<=30	Pass
		Inner_1RB_Left	24.53	/	/	27.73	/	/	<=30	Pass
		Inner_1RB_Right	24.04	/	/	27.24	/	/	<=30	Pass
		Edge_1RB_Left	22.45	/	/	25.65	/	/	<=30	Pass
		Edge_1RB_Right	23.12	/	/	26.32	/	/	<=30	Pass
	3840	Outer_Full	22.65	/	/	25.85	/	/	<=30	Pass
		Inner_Full	22.59	/	/	25.79	/	/	<=30	Pass
		Inner_1RB_Left	22.41	/	/	25.61	/	/	<=30	Pass
		Inner_1RB_Right	23.07	/	/	26.27	/	/	<=30	Pass
		Edge_1RB_Left	23.01	/	/	26.21	/	/	<=30	Pass
	3964.98	Edge_1RB_Right	22.81	/	/	26.01	/	/	<=30	Pass
		Outer_Full	22.70	/	/	25.9	/	/	<=30	Pass
		Inner_Full	22.60	/	/	25.8	/	/	<=30	Pass
		Inner_1RB_Left	23.02	/	/	26.22	/	/	<=30	Pass
		Inner_1RB_Right	22.85	/	/	26.05	/	/	<=30	Pass
CP-OFDM 256 QAM	3715.02	Edge_1RB_Left	23.03	/	/	26.23	/	/	<=30	Pass
		Edge_1RB_Right	22.67	/	/	25.87	/	/	<=30	Pass
		Outer_Full	22.83	/	/	26.03	/	/	<=30	Pass
		Inner_Full	22.80	/	/	26	/	/	<=30	Pass
		Inner_1RB_Left	23.13	/	/	26.33	/	/	<=30	Pass
3840	Inner_1RB_Right	22.67	/	/	25.87	/	/	<=30	Pass	
	Edge_1RB_Left	19.23	/	/	22.43	/	/	<=30	Pass	
	Edge_1RB_Right	19.98	/	/	23.18	/	/	<=30	Pass	
	Outer_Full	19.63	/	/	22.83	/	/	<=30	Pass	
	Inner_Full	19.60	/	/	22.8	/	/	<=30	Pass	
	3840	Inner_1RB_Left	19.29	/	/	22.49	/	/	<=30	Pass
		Inner_1RB_Right	19.93	/	/	23.13	/	/	<=30	Pass
		Edge_1RB_Left	19.88	/	/	23.08	/	/	<=30	Pass



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3964.98	Edge_1RB_Right	19.73	/	/	22.93	/	/	<=30	Pass
	Outer_Full	19.76	/	/	22.96	/	/	<=30	Pass
	Inner_Full	19.65	/	/	22.85	/	/	<=30	Pass
	Inner_1RB_Left	19.80	/	/	23	/	/	<=30	Pass
	Inner_1RB_Right	19.74	/	/	22.94	/	/	<=30	Pass
	Edge_1RB_Left	20.16	/	/	23.36	/	/	<=30	Pass
	Edge_1RB_Right	19.72	/	/	22.92	/	/	<=30	Pass
	Outer_Full	19.86	/	/	23.06	/	/	<=30	Pass
	Inner_Full	19.82	/	/	23.02	/	/	<=30	Pass
	Inner_1RB_Left	20.05	/	/	23.25	/	/	<=30	Pass
Inner_1RB_Right	19.72	/	/	22.92	/	/	<=30	Pass	

Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi;
Note2: EIRP=Conducted Power+Antenna Gain

1.3 30k_SISO_40MHz_NTNV_EIRP

1.3.1 Test Result

5G NR n77a SCS=30kHz SISO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3720	Edge_1RB_Left	22.56	/	/	25.76	/	/	<=30	Pass
		Edge_1RB_Right	23.01	/	/	26.21	/	/	<=30	Pass
		Outer_Full	25.75	/	/	28.95	/	/	<=30	Pass
		Inner_Full	26.23	/	/	29.43	/	/	<=30	Pass
		Inner_1RB_Left	25.99	/	/	29.19	/	/	<=30	Pass
		Inner_1RB_Right	26.44	/	/	29.64	/	/	<=30	Pass
	3840	Edge_1RB_Left	23.22	/	/	26.42	/	/	<=30	Pass
		Edge_1RB_Right	22.84	/	/	26.04	/	/	<=30	Pass
		Outer_Full	25.78	/	/	28.98	/	/	<=30	Pass
		Inner_Full	26.13	/	/	29.33	/	/	<=30	Pass
		Inner_1RB_Left	26.66	/	/	29.86	/	/	<=30	Pass
		Inner_1RB_Right	26.37	/	/	29.57	/	/	<=30	Pass
	3960	Edge_1RB_Left	23.10	/	/	26.3	/	/	<=30	Pass
		Edge_1RB_Right	22.68	/	/	25.88	/	/	<=30	Pass
		Outer_Full	25.79	/	/	28.99	/	/	<=30	Pass
		Inner_Full	26.26	/	/	29.46	/	/	<=30	Pass
		Inner_1RB_Left	26.51	/	/	29.71	/	/	<=30	Pass
		Inner_1RB_Right	26.18	/	/	29.38	/	/	<=30	Pass
DFT-s-OFDM QPSK	3720	Edge_1RB_Left	22.55	/	/	25.75	/	/	<=30	Pass
		Edge_1RB_Right	23.03	/	/	26.23	/	/	<=30	Pass
		Outer_Full	25.24	/	/	28.44	/	/	<=30	Pass
		Inner_Full	26.21	/	/	29.41	/	/	<=30	Pass
		Inner_1RB_Left	26.06	/	/	29.26	/	/	<=30	Pass
		Inner_1RB_Right	26.45	/	/	29.65	/	/	<=30	Pass
	3840	Edge_1RB_Left	23.23	/	/	26.43	/	/	<=30	Pass



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		Edge_1RB_Right	22.83	/	/	26.03	/	/	<=30	Pass
		Outer_Full	25.27	/	/	28.47	/	/	<=30	Pass
		Inner_Full	26.11	/	/	29.31	/	/	<=30	Pass
		Inner_1RB_Left	26.73	/	/	29.93	/	/	<=30	Pass
		Inner_1RB_Right	26.38	/	/	29.58	/	/	<=30	Pass
	3960	Edge_1RB_Left	23.08	/	/	26.28	/	/	<=30	Pass
		Edge_1RB_Right	22.65	/	/	25.85	/	/	<=30	Pass
		Outer_Full	25.34	/	/	28.54	/	/	<=30	Pass
		Inner_Full	26.30	/	/	29.5	/	/	<=30	Pass
		Inner_1RB_Left	26.56	/	/	29.76	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3720	Inner_1RB_Right	26.22	/	/	29.42	/	/	<=30	Pass
		Edge_1RB_Left	22.55	/	/	25.75	/	/	<=30	Pass
		Edge_1RB_Right	22.91	/	/	26.11	/	/	<=30	Pass
		Outer_Full	24.27	/	/	27.47	/	/	<=30	Pass
		Inner_Full	25.29	/	/	28.49	/	/	<=30	Pass
	3840	Inner_1RB_Left	24.89	/	/	28.09	/	/	<=30	Pass
		Inner_1RB_Right	25.30	/	/	28.5	/	/	<=30	Pass
		Edge_1RB_Left	23.10	/	/	26.3	/	/	<=30	Pass
		Edge_1RB_Right	22.72	/	/	25.92	/	/	<=30	Pass
		Outer_Full	24.26	/	/	27.46	/	/	<=30	Pass
3960	Inner_Full	25.16	/	/	28.36	/	/	<=30	Pass	
	Inner_1RB_Left	25.47	/	/	28.67	/	/	<=30	Pass	
	Inner_1RB_Right	25.13	/	/	28.33	/	/	<=30	Pass	
	Edge_1RB_Left	23.01	/	/	26.21	/	/	<=30	Pass	
	Edge_1RB_Right	22.69	/	/	25.89	/	/	<=30	Pass	
DFT-s-OFDM 64 QAM	3720	Outer_Full	24.35	/	/	27.55	/	/	<=30	Pass
		Inner_Full	25.31	/	/	28.51	/	/	<=30	Pass
		Inner_1RB_Left	25.42	/	/	28.62	/	/	<=30	Pass
		Inner_1RB_Right	25.08	/	/	28.28	/	/	<=30	Pass
		Edge_1RB_Left	22.70	/	/	25.9	/	/	<=30	Pass
	3840	Edge_1RB_Right	23.03	/	/	26.23	/	/	<=30	Pass
		Outer_Full	23.79	/	/	26.99	/	/	<=30	Pass
		Inner_Full	23.76	/	/	26.96	/	/	<=30	Pass
		Inner_1RB_Left	23.71	/	/	26.91	/	/	<=30	Pass
		Inner_1RB_Right	24.10	/	/	27.3	/	/	<=30	Pass
	3960	Edge_1RB_Left	23.29	/	/	26.49	/	/	<=30	Pass
		Edge_1RB_Right	22.98	/	/	26.18	/	/	<=30	Pass
		Outer_Full	23.79	/	/	26.99	/	/	<=30	Pass
		Inner_Full	23.67	/	/	26.87	/	/	<=30	Pass
		Inner_1RB_Left	24.12	/	/	27.32	/	/	<=30	Pass
DFT-s-OFDM 256	3720	Inner_1RB_Right	23.84	/	/	27.04	/	/	<=30	Pass
		Edge_1RB_Left	23.21	/	/	26.41	/	/	<=30	Pass
		Edge_1RB_Right	22.76	/	/	25.96	/	/	<=30	Pass
		Outer_Full	23.90	/	/	27.1	/	/	<=30	Pass
		Inner_Full	23.83	/	/	27.03	/	/	<=30	Pass
		Inner_1RB_Left	24.13	/	/	27.33	/	/	<=30	Pass
		Inner_1RB_Right	23.67	/	/	26.87	/	/	<=30	Pass
		Edge_1RB_Left	21.55	/	/	24.75	/	/	<=30	Pass



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QAM		Edge_1RB_Right	21.84	/	/	25.04	/	/	<=30	Pass
		Outer_Full	21.81	/	/	25.01	/	/	<=30	Pass
		Inner_Full	21.75	/	/	24.95	/	/	<=30	Pass
		Inner_1RB_Left	21.54	/	/	24.74	/	/	<=30	Pass
		Inner_1RB_Right	21.85	/	/	25.05	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.09	/	/	25.29	/	/	<=30	Pass
		Edge_1RB_Right	21.76	/	/	24.96	/	/	<=30	Pass
		Outer_Full	21.77	/	/	24.97	/	/	<=30	Pass
		Inner_Full	21.66	/	/	24.86	/	/	<=30	Pass
		Inner_1RB_Left	22.14	/	/	25.34	/	/	<=30	Pass
	3960	Inner_1RB_Right	21.78	/	/	24.98	/	/	<=30	Pass
		Edge_1RB_Left	22.01	/	/	25.21	/	/	<=30	Pass
		Edge_1RB_Right	21.56	/	/	24.76	/	/	<=30	Pass
		Outer_Full	21.81	/	/	25.01	/	/	<=30	Pass
		Inner_Full	21.89	/	/	25.09	/	/	<=30	Pass
CP-OFDM QPSK	3720	Inner_1RB_Left	22.00	/	/	25.2	/	/	<=30	Pass
		Inner_1RB_Right	21.63	/	/	24.83	/	/	<=30	Pass
		Edge_1RB_Left	22.69	/	/	25.89	/	/	<=30	Pass
		Edge_1RB_Right	22.97	/	/	26.17	/	/	<=30	Pass
		Outer_Full	23.25	/	/	26.45	/	/	<=30	Pass
	3840	Inner_Full	24.77	/	/	27.97	/	/	<=30	Pass
		Inner_1RB_Left	24.57	/	/	27.77	/	/	<=30	Pass
		Inner_1RB_Right	24.82	/	/	28.02	/	/	<=30	Pass
		Edge_1RB_Left	23.20	/	/	26.4	/	/	<=30	Pass
		Edge_1RB_Right	22.86	/	/	26.06	/	/	<=30	Pass
	3960	Outer_Full	23.26	/	/	26.46	/	/	<=30	Pass
		Inner_Full	24.67	/	/	27.87	/	/	<=30	Pass
		Inner_1RB_Left	25.22	/	/	28.42	/	/	<=30	Pass
		Inner_1RB_Right	24.74	/	/	27.94	/	/	<=30	Pass
		Edge_1RB_Left	23.08	/	/	26.28	/	/	<=30	Pass
CP-OFDM 16 QAM	3720	Edge_1RB_Right	22.70	/	/	25.9	/	/	<=30	Pass
		Outer_Full	23.32	/	/	26.52	/	/	<=30	Pass
		Inner_Full	24.85	/	/	28.05	/	/	<=30	Pass
		Inner_1RB_Left	25.06	/	/	28.26	/	/	<=30	Pass
		Inner_1RB_Right	24.61	/	/	27.81	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.56	/	/	25.76	/	/	<=30	Pass
		Edge_1RB_Right	22.86	/	/	26.06	/	/	<=30	Pass
		Outer_Full	23.30	/	/	26.5	/	/	<=30	Pass
		Inner_Full	24.27	/	/	27.47	/	/	<=30	Pass
		Inner_1RB_Left	23.98	/	/	27.18	/	/	<=30	Pass
	3960	Inner_1RB_Right	24.31	/	/	27.51	/	/	<=30	Pass
		Edge_1RB_Left	23.08	/	/	26.28	/	/	<=30	Pass
		Edge_1RB_Right	22.78	/	/	25.98	/	/	<=30	Pass
		Outer_Full	23.19	/	/	26.39	/	/	<=30	Pass
		Inner_Full	24.12	/	/	27.32	/	/	<=30	Pass
		Inner_1RB_Left	24.68	/	/	27.88	/	/	<=30	Pass
		Inner_1RB_Right	24.23	/	/	27.43	/	/	<=30	Pass
		Edge_1RB_Left	23.04	/	/	26.24	/	/	<=30	Pass



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CP-OFDM 64 QAM		Edge_1RB_Right	22.63	/	/	25.83	/	/	<=30	Pass	
		Outer_Full	23.32	/	/	26.52	/	/	<=30	Pass	
		Inner_Full	24.32	/	/	27.52	/	/	<=30	Pass	
		Inner_1RB_Left	24.48	/	/	27.68	/	/	<=30	Pass	
		Inner_1RB_Right	24.13	/	/	27.33	/	/	<=30	Pass	
	3720	Edge_1RB_Left	22.63	/	/	25.83	/	/	<=30	Pass	
		Edge_1RB_Right	23.02	/	/	26.22	/	/	<=30	Pass	
		Outer_Full	22.86	/	/	26.06	/	/	<=30	Pass	
		Inner_Full	22.87	/	/	26.07	/	/	<=30	Pass	
		Inner_1RB_Left	22.68	/	/	25.88	/	/	<=30	Pass	
		Inner_1RB_Right	23.10	/	/	26.3	/	/	<=30	Pass	
		3840	Edge_1RB_Left	23.19	/	/	26.39	/	/	<=30	Pass
			Edge_1RB_Right	22.86	/	/	26.06	/	/	<=30	Pass
			Outer_Full	22.78	/	/	25.98	/	/	<=30	Pass
			Inner_Full	22.68	/	/	25.88	/	/	<=30	Pass
Inner_1RB_Left	23.25		/	/	26.45	/	/	<=30	Pass		
3960	Inner_1RB_Right	22.88	/	/	26.08	/	/	<=30	Pass		
	Edge_1RB_Left	23.13	/	/	26.33	/	/	<=30	Pass		
	Edge_1RB_Right	22.71	/	/	25.91	/	/	<=30	Pass		
	Outer_Full	22.85	/	/	26.05	/	/	<=30	Pass		
	Inner_Full	22.85	/	/	26.05	/	/	<=30	Pass		
CP-OFDM 256 QAM	3720	Inner_1RB_Left	23.08	/	/	26.28	/	/	<=30	Pass	
		Inner_1RB_Right	22.72	/	/	25.92	/	/	<=30	Pass	
		Edge_1RB_Left	19.46	/	/	22.66	/	/	<=30	Pass	
		Edge_1RB_Right	19.93	/	/	23.13	/	/	<=30	Pass	
		Outer_Full	19.73	/	/	22.93	/	/	<=30	Pass	
	3840	Inner_Full	19.83	/	/	23.03	/	/	<=30	Pass	
		Inner_1RB_Left	19.56	/	/	22.76	/	/	<=30	Pass	
		Inner_1RB_Right	19.92	/	/	23.12	/	/	<=30	Pass	
		Edge_1RB_Left	20.24	/	/	23.44	/	/	<=30	Pass	
		Edge_1RB_Right	19.90	/	/	23.1	/	/	<=30	Pass	
	3960	Outer_Full	19.77	/	/	22.97	/	/	<=30	Pass	
		Inner_Full	19.72	/	/	22.92	/	/	<=30	Pass	
		Inner_1RB_Left	20.21	/	/	23.41	/	/	<=30	Pass	
		Inner_1RB_Right	19.89	/	/	23.09	/	/	<=30	Pass	
		Edge_1RB_Left	20.06	/	/	23.26	/	/	<=30	Pass	
	Edge_1RB_Right	19.59	/	/	22.79	/	/	<=30	Pass		
	Outer_Full	19.82	/	/	23.02	/	/	<=30	Pass		
	Inner_Full	19.89	/	/	23.09	/	/	<=30	Pass		
	Inner_1RB_Left	20.03	/	/	23.23	/	/	<=30	Pass		
	Inner_1RB_Right	19.63	/	/	22.83	/	/	<=30	Pass		
Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi; Note2: EIRP=Conducted Power+Antenna Gain											

1.4 30k_SISO_60MHz_NTNV_EIRP



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1.4.1 Test Result

5G NR n77a SCS=30kHz SISO 60MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3730.02	Edge_1RB_Left	22.30	/	/	25.5	/	/	<=30	Pass
		Edge_1RB_Right	22.59	/	/	25.79	/	/	<=30	Pass
		Outer_Full	25.52	/	/	28.72	/	/	<=30	Pass
		Inner_Full	26.19	/	/	29.39	/	/	<=30	Pass
		Inner_1RB_Left	25.68	/	/	28.88	/	/	<=30	Pass
		Inner_1RB_Right	25.95	/	/	29.15	/	/	<=30	Pass
	3840	Edge_1RB_Left	23.03	/	/	26.23	/	/	<=30	Pass
		Edge_1RB_Right	22.73	/	/	25.93	/	/	<=30	Pass
		Outer_Full	25.63	/	/	28.83	/	/	<=30	Pass
		Inner_Full	26.01	/	/	29.21	/	/	<=30	Pass
		Inner_1RB_Left	26.56	/	/	29.76	/	/	<=30	Pass
		Inner_1RB_Right	26.22	/	/	29.42	/	/	<=30	Pass
	3949.98	Edge_1RB_Left	22.71	/	/	25.91	/	/	<=30	Pass
		Edge_1RB_Right	22.35	/	/	25.55	/	/	<=30	Pass
		Outer_Full	25.68	/	/	28.88	/	/	<=30	Pass
		Inner_Full	26.26	/	/	29.46	/	/	<=30	Pass
		Inner_1RB_Left	26.20	/	/	29.4	/	/	<=30	Pass
		Inner_1RB_Right	25.84	/	/	29.04	/	/	<=30	Pass
DFT-s-OFDM QPSK	3730.02	Edge_1RB_Left	22.17	/	/	25.37	/	/	<=30	Pass
		Edge_1RB_Right	22.46	/	/	25.66	/	/	<=30	Pass
		Outer_Full	25.01	/	/	28.21	/	/	<=30	Pass
		Inner_Full	26.17	/	/	29.37	/	/	<=30	Pass
		Inner_1RB_Left	25.74	/	/	28.94	/	/	<=30	Pass
		Inner_1RB_Right	25.88	/	/	29.08	/	/	<=30	Pass
	3840	Edge_1RB_Left	23.01	/	/	26.21	/	/	<=30	Pass
		Edge_1RB_Right	22.73	/	/	25.93	/	/	<=30	Pass
		Outer_Full	25.20	/	/	28.4	/	/	<=30	Pass
		Inner_Full	26.07	/	/	29.27	/	/	<=30	Pass
		Inner_1RB_Left	26.52	/	/	29.72	/	/	<=30	Pass
		Inner_1RB_Right	26.22	/	/	29.42	/	/	<=30	Pass
	3949.98	Edge_1RB_Left	22.77	/	/	25.97	/	/	<=30	Pass
		Edge_1RB_Right	22.38	/	/	25.58	/	/	<=30	Pass
		Outer_Full	25.19	/	/	28.39	/	/	<=30	Pass
		Inner_Full	26.23	/	/	29.43	/	/	<=30	Pass
		Inner_1RB_Left	26.22	/	/	29.42	/	/	<=30	Pass
		Inner_1RB_Right	25.89	/	/	29.09	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3730.02	Edge_1RB_Left	22.12	/	/	25.32	/	/	<=30	Pass
		Edge_1RB_Right	22.30	/	/	25.5	/	/	<=30	Pass
		Outer_Full	24.00	/	/	27.2	/	/	<=30	Pass
		Inner_Full	25.15	/	/	28.35	/	/	<=30	Pass
		Inner_1RB_Left	24.52	/	/	27.72	/	/	<=30	Pass
		Inner_1RB_Right	24.80	/	/	28	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.99	/	/	26.19	/	/	<=30	Pass



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		Edge_1RB_Right	22.72	/	/	25.92	/	/	<=30	Pass
		Outer_Full	24.22	/	/	27.42	/	/	<=30	Pass
		Inner_Full	25.10	/	/	28.3	/	/	<=30	Pass
		Inner_1RB_Left	25.41	/	/	28.61	/	/	<=30	Pass
		Inner_1RB_Right	25.20	/	/	28.4	/	/	<=30	Pass
	3949.98	Edge_1RB_Left	22.71	/	/	25.91	/	/	<=30	Pass
		Edge_1RB_Right	22.33	/	/	25.53	/	/	<=30	Pass
		Outer_Full	24.17	/	/	27.37	/	/	<=30	Pass
		Inner_Full	25.22	/	/	28.42	/	/	<=30	Pass
		Inner_1RB_Left	25.18	/	/	28.38	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3730.02	Inner_1RB_Right	24.81	/	/	28.01	/	/	<=30	Pass
		Edge_1RB_Left	22.26	/	/	25.46	/	/	<=30	Pass
		Edge_1RB_Right	22.49	/	/	25.69	/	/	<=30	Pass
		Outer_Full	23.54	/	/	26.74	/	/	<=30	Pass
		Inner_Full	23.72	/	/	26.92	/	/	<=30	Pass
	3840	Inner_1RB_Left	23.21	/	/	26.41	/	/	<=30	Pass
		Inner_1RB_Right	23.53	/	/	26.73	/	/	<=30	Pass
		Edge_1RB_Left	23.16	/	/	26.36	/	/	<=30	Pass
		Edge_1RB_Right	22.79	/	/	25.99	/	/	<=30	Pass
		Outer_Full	23.65	/	/	26.85	/	/	<=30	Pass
3949.98	Inner_Full	23.54	/	/	26.74	/	/	<=30	Pass	
	Inner_1RB_Left	24.12	/	/	27.32	/	/	<=30	Pass	
	Inner_1RB_Right	23.83	/	/	27.03	/	/	<=30	Pass	
	Edge_1RB_Left	22.83	/	/	26.03	/	/	<=30	Pass	
	Edge_1RB_Right	22.55	/	/	25.75	/	/	<=30	Pass	
DFT-s-OFDM 256 QAM	3730.02	Outer_Full	23.73	/	/	26.93	/	/	<=30	Pass
		Inner_Full	23.76	/	/	26.96	/	/	<=30	Pass
		Inner_1RB_Left	23.77	/	/	26.97	/	/	<=30	Pass
		Inner_1RB_Right	23.43	/	/	26.63	/	/	<=30	Pass
		Edge_1RB_Left	21.07	/	/	24.27	/	/	<=30	Pass
	3840	Edge_1RB_Right	21.43	/	/	24.63	/	/	<=30	Pass
		Outer_Full	21.62	/	/	24.82	/	/	<=30	Pass
		Inner_Full	21.68	/	/	24.88	/	/	<=30	Pass
		Inner_1RB_Left	21.12	/	/	24.32	/	/	<=30	Pass
		Inner_1RB_Right	21.42	/	/	24.62	/	/	<=30	Pass
3949.98	Edge_1RB_Left	21.92	/	/	25.12	/	/	<=30	Pass	
	Edge_1RB_Right	21.57	/	/	24.77	/	/	<=30	Pass	
	Outer_Full	21.72	/	/	24.92	/	/	<=30	Pass	
	Inner_Full	21.49	/	/	24.69	/	/	<=30	Pass	
	Inner_1RB_Left	21.99	/	/	25.19	/	/	<=30	Pass	
CP-OFDM QPSK	3730.02	Inner_1RB_Right	21.57	/	/	24.77	/	/	<=30	Pass
		Edge_1RB_Left	21.58	/	/	24.78	/	/	<=30	Pass
		Edge_1RB_Right	21.30	/	/	24.5	/	/	<=30	Pass
		Outer_Full	21.66	/	/	24.86	/	/	<=30	Pass
		Inner_Full	21.69	/	/	24.89	/	/	<=30	Pass
		Inner_1RB_Left	21.67	/	/	24.87	/	/	<=30	Pass
		Inner_1RB_Right	21.28	/	/	24.48	/	/	<=30	Pass
		Edge_1RB_Left	22.32	/	/	25.52	/	/	<=30	Pass



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		Edge_1RB_Right	22.46	/	/	25.66	/	/	<=30	Pass
		Outer_Full	23.05	/	/	26.25	/	/	<=30	Pass
		Inner_Full	24.65	/	/	27.85	/	/	<=30	Pass
		Inner_1RB_Left	24.30	/	/	27.5	/	/	<=30	Pass
		Inner_1RB_Right	24.40	/	/	27.6	/	/	<=30	Pass
	3840	Edge_1RB_Left	23.06	/	/	26.26	/	/	<=30	Pass
		Edge_1RB_Right	22.70	/	/	25.9	/	/	<=30	Pass
		Outer_Full	23.24	/	/	26.44	/	/	<=30	Pass
		Inner_Full	24.56	/	/	27.76	/	/	<=30	Pass
		Inner_1RB_Left	25.06	/	/	28.26	/	/	<=30	Pass
	3949.98	Inner_1RB_Right	24.64	/	/	27.84	/	/	<=30	Pass
		Edge_1RB_Left	22.71	/	/	25.91	/	/	<=30	Pass
		Edge_1RB_Right	22.41	/	/	25.61	/	/	<=30	Pass
		Outer_Full	23.18	/	/	26.38	/	/	<=30	Pass
		Inner_Full	24.72	/	/	27.92	/	/	<=30	Pass
CP-OFDM 16 QAM	3730.02	Inner_1RB_Left	24.70	/	/	27.9	/	/	<=30	Pass
		Inner_1RB_Right	24.31	/	/	27.51	/	/	<=30	Pass
		Edge_1RB_Left	21.96	/	/	25.16	/	/	<=30	Pass
		Edge_1RB_Right	22.35	/	/	25.55	/	/	<=30	Pass
		Outer_Full	23.05	/	/	26.25	/	/	<=30	Pass
	3840	Inner_Full	24.14	/	/	27.34	/	/	<=30	Pass
		Inner_1RB_Left	23.61	/	/	26.81	/	/	<=30	Pass
		Inner_1RB_Right	23.78	/	/	26.98	/	/	<=30	Pass
		Edge_1RB_Left	22.97	/	/	26.17	/	/	<=30	Pass
		Edge_1RB_Right	22.61	/	/	25.81	/	/	<=30	Pass
	3949.98	Outer_Full	23.24	/	/	26.44	/	/	<=30	Pass
		Inner_Full	24.06	/	/	27.26	/	/	<=30	Pass
		Inner_1RB_Left	24.38	/	/	27.58	/	/	<=30	Pass
		Inner_1RB_Right	24.07	/	/	27.27	/	/	<=30	Pass
		Edge_1RB_Left	22.62	/	/	25.82	/	/	<=30	Pass
CP-OFDM 64 QAM	3730.02	Edge_1RB_Right	22.22	/	/	25.42	/	/	<=30	Pass
		Outer_Full	23.13	/	/	26.33	/	/	<=30	Pass
		Inner_Full	24.22	/	/	27.42	/	/	<=30	Pass
		Inner_1RB_Left	24.17	/	/	27.37	/	/	<=30	Pass
		Inner_1RB_Right	23.78	/	/	26.98	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.27	/	/	25.47	/	/	<=30	Pass
		Edge_1RB_Right	22.54	/	/	25.74	/	/	<=30	Pass
		Outer_Full	22.63	/	/	25.83	/	/	<=30	Pass
		Inner_Full	22.72	/	/	25.92	/	/	<=30	Pass
		Inner_1RB_Left	22.22	/	/	25.42	/	/	<=30	Pass
	3949.98	Inner_1RB_Right	22.53	/	/	25.73	/	/	<=30	Pass
		Edge_1RB_Left	23.09	/	/	26.29	/	/	<=30	Pass
		Edge_1RB_Right	22.76	/	/	25.96	/	/	<=30	Pass
		Outer_Full	22.68	/	/	25.88	/	/	<=30	Pass
		Inner_Full	22.51	/	/	25.71	/	/	<=30	Pass
		Inner_1RB_Left	23.19	/	/	26.39	/	/	<=30	Pass
		Inner_1RB_Right	22.85	/	/	26.05	/	/	<=30	Pass
		Edge_1RB_Left	22.73	/	/	25.93	/	/	<=30	Pass



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CP-OFDM 256 QAM	3730.02	Edge_1RB_Right	22.42	/	/	25.62	/	/	<=30	Pass
		Outer_Full	22.71	/	/	25.91	/	/	<=30	Pass
		Inner_Full	22.77	/	/	25.97	/	/	<=30	Pass
		Inner_1RB_Left	22.82	/	/	26.02	/	/	<=30	Pass
		Inner_1RB_Right	22.47	/	/	25.67	/	/	<=30	Pass
	3840	Edge_1RB_Left	19.25	/	/	22.45	/	/	<=30	Pass
		Edge_1RB_Right	19.38	/	/	22.58	/	/	<=30	Pass
		Outer_Full	19.56	/	/	22.76	/	/	<=30	Pass
		Inner_Full	19.71	/	/	22.91	/	/	<=30	Pass
		Inner_1RB_Left	19.29	/	/	22.49	/	/	<=30	Pass
	3949.98	Inner_1RB_Right	19.44	/	/	22.64	/	/	<=30	Pass
		Edge_1RB_Left	19.94	/	/	23.14	/	/	<=30	Pass
		Edge_1RB_Right	19.72	/	/	22.92	/	/	<=30	Pass
		Outer_Full	19.82	/	/	23.02	/	/	<=30	Pass
		Inner_Full	19.66	/	/	22.86	/	/	<=30	Pass
	3949.98	Inner_1RB_Left	20.04	/	/	23.24	/	/	<=30	Pass
		Inner_1RB_Right	19.73	/	/	22.93	/	/	<=30	Pass
		Edge_1RB_Left	19.74	/	/	22.94	/	/	<=30	Pass
		Edge_1RB_Right	19.35	/	/	22.55	/	/	<=30	Pass
		Outer_Full	19.69	/	/	22.89	/	/	<=30	Pass
3949.98	Inner_Full	19.72	/	/	22.92	/	/	<=30	Pass	
	Inner_1RB_Left	19.69	/	/	22.89	/	/	<=30	Pass	
	Inner_1RB_Right	19.36	/	/	22.56	/	/	<=30	Pass	
Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi; Note2: EIRP=Conducted Power+Antenna Gain										

1.5 30k_SISO_80MHz_NTNV_EIRP

1.5.1 Test Result

5G NR n77a SCS=30kHz SISO 80MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3740.01	Edge_1RB_Left	22.13	/	/	25.33	/	/	<=30	Pass
		Edge_1RB_Right	22.77	/	/	25.97	/	/	<=30	Pass
		Outer_Full	25.48	/	/	28.68	/	/	<=30	Pass
		Inner_Full	26.17	/	/	29.37	/	/	<=30	Pass
		Inner_1RB_Left	25.56	/	/	28.76	/	/	<=30	Pass
	3840	Inner_1RB_Right	26.23	/	/	29.43	/	/	<=30	Pass
		Edge_1RB_Left	22.88	/	/	26.08	/	/	<=30	Pass
		Edge_1RB_Right	22.67	/	/	25.87	/	/	<=30	Pass
		Outer_Full	25.67	/	/	28.87	/	/	<=30	Pass
		Inner_Full	25.95	/	/	29.15	/	/	<=30	Pass
	3939.99	Inner_1RB_Left	26.37	/	/	29.57	/	/	<=30	Pass
		Inner_1RB_Right	26.19	/	/	29.39	/	/	<=30	Pass
		Edge_1RB_Left	22.30	/	/	25.5	/	/	<=30	Pass



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		Edge_1RB_Right	22.27	/	/	25.47	/	/	<=30	Pass
		Outer_Full	25.46	/	/	28.66	/	/	<=30	Pass
		Inner_Full	26.12	/	/	29.32	/	/	<=30	Pass
		Inner_1RB_Left	25.63	/	/	28.83	/	/	<=30	Pass
		Inner_1RB_Right	25.67	/	/	28.87	/	/	<=30	Pass
DFT-s-OFDM QPSK	3740.01	Edge_1RB_Left	22.09	/	/	25.29	/	/	<=30	Pass
		Edge_1RB_Right	22.73	/	/	25.93	/	/	<=30	Pass
		Outer_Full	24.92	/	/	28.12	/	/	<=30	Pass
		Inner_Full	26.08	/	/	29.28	/	/	<=30	Pass
		Inner_1RB_Left	25.52	/	/	28.72	/	/	<=30	Pass
	3840	Inner_1RB_Right	26.27	/	/	29.47	/	/	<=30	Pass
		Edge_1RB_Left	22.89	/	/	26.09	/	/	<=30	Pass
		Edge_1RB_Right	22.72	/	/	25.92	/	/	<=30	Pass
		Outer_Full	25.02	/	/	28.22	/	/	<=30	Pass
		Inner_Full	26.00	/	/	29.2	/	/	<=30	Pass
	3939.99	Inner_1RB_Left	26.39	/	/	29.59	/	/	<=30	Pass
		Inner_1RB_Right	26.15	/	/	29.35	/	/	<=30	Pass
		Edge_1RB_Left	22.25	/	/	25.45	/	/	<=30	Pass
		Edge_1RB_Right	22.20	/	/	25.4	/	/	<=30	Pass
		Outer_Full	24.95	/	/	28.15	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3740.01	Inner_Full	26.14	/	/	29.34	/	/	<=30	Pass
		Inner_1RB_Left	25.57	/	/	28.77	/	/	<=30	Pass
		Inner_1RB_Right	25.69	/	/	28.89	/	/	<=30	Pass
		Edge_1RB_Left	22.00	/	/	25.2	/	/	<=30	Pass
		Edge_1RB_Right	22.84	/	/	26.04	/	/	<=30	Pass
	3840	Outer_Full	23.98	/	/	27.18	/	/	<=30	Pass
		Inner_Full	25.01	/	/	28.21	/	/	<=30	Pass
		Inner_1RB_Left	24.36	/	/	27.56	/	/	<=30	Pass
		Inner_1RB_Right	25.16	/	/	28.36	/	/	<=30	Pass
		Edge_1RB_Left	22.73	/	/	25.93	/	/	<=30	Pass
	3939.99	Edge_1RB_Right	22.59	/	/	25.79	/	/	<=30	Pass
		Outer_Full	24.05	/	/	27.25	/	/	<=30	Pass
		Inner_Full	24.99	/	/	28.19	/	/	<=30	Pass
		Inner_1RB_Left	25.26	/	/	28.46	/	/	<=30	Pass
		Inner_1RB_Right	25.03	/	/	28.23	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3740.01	Edge_1RB_Left	22.02	/	/	25.22	/	/	<=30	Pass
		Edge_1RB_Right	22.19	/	/	25.39	/	/	<=30	Pass
		Outer_Full	23.89	/	/	27.09	/	/	<=30	Pass
		Inner_Full	25.10	/	/	28.3	/	/	<=30	Pass
		Inner_1RB_Left	24.56	/	/	27.76	/	/	<=30	Pass
3840	Inner_1RB_Right	24.62	/	/	27.82	/	/	<=30	Pass	
	Edge_1RB_Left	22.19	/	/	25.39	/	/	<=30	Pass	
	Edge_1RB_Right	22.88	/	/	26.08	/	/	<=30	Pass	
	Outer_Full	23.47	/	/	26.67	/	/	<=30	Pass	
	Inner_Full	23.61	/	/	26.81	/	/	<=30	Pass	
	3840	Inner_1RB_Left	23.15	/	/	26.35	/	/	<=30	Pass
		Inner_1RB_Right	23.80	/	/	27	/	/	<=30	Pass
		Edge_1RB_Left	22.94	/	/	26.14	/	/	<=30	Pass



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		Edge_1RB_Right	22.70	/	/	25.9	/	/	<=30	Pass
		Outer_Full	23.60	/	/	26.8	/	/	<=30	Pass
		Inner_Full	23.43	/	/	26.63	/	/	<=30	Pass
		Inner_1RB_Left	23.87	/	/	27.07	/	/	<=30	Pass
		Inner_1RB_Right	23.70	/	/	26.9	/	/	<=30	Pass
	3939.99	Edge_1RB_Left	22.24	/	/	25.44	/	/	<=30	Pass
		Edge_1RB_Right	22.34	/	/	25.54	/	/	<=30	Pass
		Outer_Full	23.42	/	/	26.62	/	/	<=30	Pass
		Inner_Full	23.60	/	/	26.8	/	/	<=30	Pass
		Inner_1RB_Left	23.12	/	/	26.32	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	3740.01	Inner_1RB_Right	23.22	/	/	26.42	/	/	<=30	Pass
		Edge_1RB_Left	21.07	/	/	24.27	/	/	<=30	Pass
		Edge_1RB_Right	21.75	/	/	24.95	/	/	<=30	Pass
		Outer_Full	21.46	/	/	24.66	/	/	<=30	Pass
		Inner_Full	21.56	/	/	24.76	/	/	<=30	Pass
	3840	Inner_1RB_Left	21.01	/	/	24.21	/	/	<=30	Pass
		Inner_1RB_Right	21.74	/	/	24.94	/	/	<=30	Pass
		Edge_1RB_Left	21.88	/	/	25.08	/	/	<=30	Pass
		Edge_1RB_Right	21.66	/	/	24.86	/	/	<=30	Pass
		Outer_Full	21.69	/	/	24.89	/	/	<=30	Pass
3939.99	Inner_Full	21.41	/	/	24.61	/	/	<=30	Pass	
	Inner_1RB_Left	21.85	/	/	25.05	/	/	<=30	Pass	
	Inner_1RB_Right	21.67	/	/	24.87	/	/	<=30	Pass	
	Edge_1RB_Left	21.05	/	/	24.25	/	/	<=30	Pass	
	Edge_1RB_Right	20.98	/	/	24.18	/	/	<=30	Pass	
CP-OFDM QPSK	3740.01	Outer_Full	21.48	/	/	24.68	/	/	<=30	Pass
		Inner_Full	21.63	/	/	24.83	/	/	<=30	Pass
		Inner_1RB_Left	21.13	/	/	24.33	/	/	<=30	Pass
		Inner_1RB_Right	21.15	/	/	24.35	/	/	<=30	Pass
		Edge_1RB_Left	22.13	/	/	25.33	/	/	<=30	Pass
	3840	Edge_1RB_Right	22.77	/	/	25.97	/	/	<=30	Pass
		Outer_Full	23.10	/	/	26.3	/	/	<=30	Pass
		Inner_Full	24.61	/	/	27.81	/	/	<=30	Pass
		Inner_1RB_Left	24.15	/	/	27.35	/	/	<=30	Pass
		Inner_1RB_Right	24.74	/	/	27.94	/	/	<=30	Pass
3939.99	Edge_1RB_Left	22.80	/	/	26	/	/	<=30	Pass	
	Edge_1RB_Right	22.72	/	/	25.92	/	/	<=30	Pass	
	Outer_Full	23.15	/	/	26.35	/	/	<=30	Pass	
	Inner_Full	24.50	/	/	27.7	/	/	<=30	Pass	
	Inner_1RB_Left	24.90	/	/	28.1	/	/	<=30	Pass	
CP-OFDM 16 QAM	3740.01	Inner_1RB_Right	24.75	/	/	27.95	/	/	<=30	Pass
		Edge_1RB_Left	22.25	/	/	25.45	/	/	<=30	Pass
		Edge_1RB_Right	22.24	/	/	25.44	/	/	<=30	Pass
		Outer_Full	22.96	/	/	26.16	/	/	<=30	Pass
		Inner_Full	24.58	/	/	27.78	/	/	<=30	Pass
		Inner_1RB_Left	24.33	/	/	27.53	/	/	<=30	Pass
		Inner_1RB_Right	24.15	/	/	27.35	/	/	<=30	Pass
		Edge_1RB_Left	21.96	/	/	25.16	/	/	<=30	Pass



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		Edge_1RB_Right	22.71	/	/	25.91	/	/	<=30	Pass
		Outer_Full	22.99	/	/	26.19	/	/	<=30	Pass
		Inner_Full	24.15	/	/	27.35	/	/	<=30	Pass
		Inner_1RB_Left	23.39	/	/	26.59	/	/	<=30	Pass
		Inner_1RB_Right	24.09	/	/	27.29	/	/	<=30	Pass
	3840	Edge_1RB_Right	22.71	/	/	25.91	/	/	<=30	Pass
		Edge_1RB_Right	22.55	/	/	25.75	/	/	<=30	Pass
		Outer_Full	23.07	/	/	26.27	/	/	<=30	Pass
		Inner_Full	24.01	/	/	27.21	/	/	<=30	Pass
		Inner_1RB_Left	24.24	/	/	27.44	/	/	<=30	Pass
	3939.99	Inner_1RB_Right	24.05	/	/	27.25	/	/	<=30	Pass
		Edge_1RB_Left	22.03	/	/	25.23	/	/	<=30	Pass
		Edge_1RB_Right	22.17	/	/	25.37	/	/	<=30	Pass
		Outer_Full	22.95	/	/	26.15	/	/	<=30	Pass
		Inner_Full	24.14	/	/	27.34	/	/	<=30	Pass
CP-OFDM 64 QAM	3740.01	Inner_1RB_Left	23.59	/	/	26.79	/	/	<=30	Pass
		Inner_1RB_Right	23.57	/	/	26.77	/	/	<=30	Pass
		Edge_1RB_Left	22.12	/	/	25.32	/	/	<=30	Pass
		Edge_1RB_Right	22.85	/	/	26.05	/	/	<=30	Pass
		Outer_Full	22.55	/	/	25.75	/	/	<=30	Pass
	3840	Inner_Full	22.53	/	/	25.73	/	/	<=30	Pass
		Inner_1RB_Left	22.19	/	/	25.39	/	/	<=30	Pass
		Inner_1RB_Right	22.84	/	/	26.04	/	/	<=30	Pass
		Edge_1RB_Left	22.88	/	/	26.08	/	/	<=30	Pass
		Edge_1RB_Right	22.64	/	/	25.84	/	/	<=30	Pass
	3939.99	Outer_Full	22.66	/	/	25.86	/	/	<=30	Pass
		Inner_Full	22.45	/	/	25.65	/	/	<=30	Pass
		Inner_1RB_Left	22.85	/	/	26.05	/	/	<=30	Pass
		Inner_1RB_Right	22.62	/	/	25.82	/	/	<=30	Pass
		Edge_1RB_Left	22.18	/	/	25.38	/	/	<=30	Pass
CP-OFDM 256 QAM	3740.01	Edge_1RB_Right	22.24	/	/	25.44	/	/	<=30	Pass
		Outer_Full	22.46	/	/	25.66	/	/	<=30	Pass
		Inner_Full	22.57	/	/	25.77	/	/	<=30	Pass
		Inner_1RB_Left	22.22	/	/	25.42	/	/	<=30	Pass
		Inner_1RB_Right	22.26	/	/	25.46	/	/	<=30	Pass
	3840	Edge_1RB_Left	19.17	/	/	22.37	/	/	<=30	Pass
		Edge_1RB_Right	19.72	/	/	22.92	/	/	<=30	Pass
		Outer_Full	19.56	/	/	22.76	/	/	<=30	Pass
		Inner_Full	19.72	/	/	22.92	/	/	<=30	Pass
		Inner_1RB_Left	19.10	/	/	22.3	/	/	<=30	Pass
	3939.99	Inner_1RB_Right	19.75	/	/	22.95	/	/	<=30	Pass
		Edge_1RB_Left	19.87	/	/	23.07	/	/	<=30	Pass
		Edge_1RB_Right	19.61	/	/	22.81	/	/	<=30	Pass
		Outer_Full	19.72	/	/	22.92	/	/	<=30	Pass
		Inner_Full	19.47	/	/	22.67	/	/	<=30	Pass
		Inner_1RB_Left	19.88	/	/	23.08	/	/	<=30	Pass
		Inner_1RB_Right	19.59	/	/	22.79	/	/	<=30	Pass
		Edge_1RB_Left	19.23	/	/	22.43	/	/	<=30	Pass



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	Edge_1RB_Right	19.25	/	/	22.45	/	/	<=30	Pass
	Outer_Full	19.58	/	/	22.78	/	/	<=30	Pass
	Inner_Full	19.68	/	/	22.88	/	/	<=30	Pass
	Inner_1RB_Left	19.13	/	/	22.33	/	/	<=30	Pass
	Inner_1RB_Right	19.12	/	/	22.32	/	/	<=30	Pass

Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi;

Note2: EIRP=Conducted Power+Antenna Gain

1.6 30k_SISO_100MHz_NTNV_EIRP

1.6.1 Test Result

5G NR n77a SCS=30kHz SISO 100MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)			Limit	Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum		
DFT-s-OFDM PI/2 BPSK	3750	Edge_1RB_Left	22.16	/	/	25.36	/	/	<=30	Pass
		Edge_1RB_Right	22.91	/	/	26.11	/	/	<=30	Pass
		Outer_Full	25.64	/	/	28.84	/	/	<=30	Pass
		Inner_Full	26.11	/	/	29.31	/	/	<=30	Pass
		Inner_1RB_Left	25.59	/	/	28.79	/	/	<=30	Pass
		Inner_1RB_Right	26.39	/	/	29.59	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.94	/	/	26.14	/	/	<=30	Pass
		Edge_1RB_Right	22.62	/	/	25.82	/	/	<=30	Pass
		Outer_Full	25.60	/	/	28.8	/	/	<=30	Pass
		Inner_Full	26.02	/	/	29.22	/	/	<=30	Pass
		Inner_1RB_Left	26.38	/	/	29.58	/	/	<=30	Pass
		Inner_1RB_Right	26.11	/	/	29.31	/	/	<=30	Pass
	3930	Edge_1RB_Left	22.61	/	/	25.81	/	/	<=30	Pass
		Edge_1RB_Right	22.34	/	/	25.54	/	/	<=30	Pass
		Outer_Full	25.46	/	/	28.66	/	/	<=30	Pass
		Inner_Full	26.09	/	/	29.29	/	/	<=30	Pass
		Inner_1RB_Left	26.10	/	/	29.3	/	/	<=30	Pass
		Inner_1RB_Right	25.81	/	/	29.01	/	/	<=30	Pass
DFT-s-OFDM QPSK	3750	Edge_1RB_Left	22.10	/	/	25.3	/	/	<=30	Pass
		Edge_1RB_Right	22.90	/	/	26.1	/	/	<=30	Pass
		Outer_Full	25.07	/	/	28.27	/	/	<=30	Pass
		Inner_Full	26.15	/	/	29.35	/	/	<=30	Pass
		Inner_1RB_Left	25.47	/	/	28.67	/	/	<=30	Pass
		Inner_1RB_Right	26.35	/	/	29.55	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.90	/	/	26.1	/	/	<=30	Pass
		Edge_1RB_Right	22.72	/	/	25.92	/	/	<=30	Pass
		Outer_Full	25.05	/	/	28.25	/	/	<=30	Pass
		Inner_Full	26.07	/	/	29.27	/	/	<=30	Pass
		Inner_1RB_Left	26.44	/	/	29.64	/	/	<=30	Pass
		Inner_1RB_Right	26.14	/	/	29.34	/	/	<=30	Pass
	3930	Edge_1RB_Left	22.75	/	/	25.95	/	/	<=30	Pass



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DFT-s-OFDM 16 QAM	3750	Edge_1RB_Right	22.32	/	/	25.52	/	/	<=30	Pass	
		Outer_Full	24.96	/	/	28.16	/	/	<=30	Pass	
		Inner_Full	26.07	/	/	29.27	/	/	<=30	Pass	
		Inner_1RB_Left	26.05	/	/	29.25	/	/	<=30	Pass	
		Inner_1RB_Right	25.75	/	/	28.95	/	/	<=30	Pass	
	3840	Edge_1RB_Left	21.89	/	/	25.09	/	/	<=30	Pass	
		Edge_1RB_Right	22.84	/	/	26.04	/	/	<=30	Pass	
		Outer_Full	24.09	/	/	27.29	/	/	<=30	Pass	
		Inner_Full	25.10	/	/	28.3	/	/	<=30	Pass	
		Inner_1RB_Left	24.43	/	/	27.63	/	/	<=30	Pass	
		Inner_1RB_Right	25.36	/	/	28.56	/	/	<=30	Pass	
		3930	Edge_1RB_Left	22.78	/	/	25.98	/	/	<=30	Pass
			Edge_1RB_Right	22.60	/	/	25.8	/	/	<=30	Pass
			Outer_Full	24.10	/	/	27.3	/	/	<=30	Pass
			Inner_Full	24.90	/	/	28.1	/	/	<=30	Pass
Inner_1RB_Left	25.31		/	/	28.51	/	/	<=30	Pass		
DFT-s-OFDM 64 QAM	3750	Inner_1RB_Right	25.04	/	/	28.24	/	/	<=30	Pass	
		Edge_1RB_Left	22.51	/	/	25.71	/	/	<=30	Pass	
		Edge_1RB_Right	22.19	/	/	25.39	/	/	<=30	Pass	
		Outer_Full	23.96	/	/	27.16	/	/	<=30	Pass	
		Inner_Full	25.03	/	/	28.23	/	/	<=30	Pass	
	3840	Inner_1RB_Left	24.96	/	/	28.16	/	/	<=30	Pass	
		Inner_1RB_Right	24.63	/	/	27.83	/	/	<=30	Pass	
		Edge_1RB_Left	22.09	/	/	25.29	/	/	<=30	Pass	
		Edge_1RB_Right	22.93	/	/	26.13	/	/	<=30	Pass	
		Outer_Full	23.58	/	/	26.78	/	/	<=30	Pass	
	3930	Inner_Full	23.61	/	/	26.81	/	/	<=30	Pass	
		Inner_1RB_Left	23.16	/	/	26.36	/	/	<=30	Pass	
		Inner_1RB_Right	23.94	/	/	27.14	/	/	<=30	Pass	
		Edge_1RB_Left	23.03	/	/	26.23	/	/	<=30	Pass	
		Edge_1RB_Right	22.67	/	/	25.87	/	/	<=30	Pass	
3750	Outer_Full	23.61	/	/	26.81	/	/	<=30	Pass		
	Inner_Full	23.48	/	/	26.68	/	/	<=30	Pass		
	Inner_1RB_Left	24.06	/	/	27.26	/	/	<=30	Pass		
	Inner_1RB_Right	23.69	/	/	26.89	/	/	<=30	Pass		
	Edge_1RB_Left	22.73	/	/	25.93	/	/	<=30	Pass		
3840	Edge_1RB_Right	22.38	/	/	25.58	/	/	<=30	Pass		
	Outer_Full	23.44	/	/	26.64	/	/	<=30	Pass		
	Inner_Full	23.56	/	/	26.76	/	/	<=30	Pass		
	Inner_1RB_Left	23.68	/	/	26.88	/	/	<=30	Pass		
	Inner_1RB_Right	23.34	/	/	26.54	/	/	<=30	Pass		
DFT-s-OFDM 256 QAM	3750	Edge_1RB_Left	21.05	/	/	24.25	/	/	<=30	Pass	
		Edge_1RB_Right	21.88	/	/	25.08	/	/	<=30	Pass	
		Outer_Full	21.53	/	/	24.73	/	/	<=30	Pass	
		Inner_Full	21.64	/	/	24.84	/	/	<=30	Pass	
		Inner_1RB_Left	20.91	/	/	24.11	/	/	<=30	Pass	
	3840	Inner_1RB_Right	21.86	/	/	25.06	/	/	<=30	Pass	
		Edge_1RB_Left	21.82	/	/	25.02	/	/	<=30	Pass	



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		Edge_1RB_Right	21.51	/	/	24.71	/	/	<=30	Pass
		Outer_Full	21.67	/	/	24.87	/	/	<=30	Pass
		Inner_Full	21.58	/	/	24.78	/	/	<=30	Pass
		Inner_1RB_Left	21.80	/	/	25	/	/	<=30	Pass
		Inner_1RB_Right	21.52	/	/	24.72	/	/	<=30	Pass
	3930	Edge_1RB_Left	21.45	/	/	24.65	/	/	<=30	Pass
		Edge_1RB_Right	21.02	/	/	24.22	/	/	<=30	Pass
		Outer_Full	21.45	/	/	24.65	/	/	<=30	Pass
		Inner_Full	21.61	/	/	24.81	/	/	<=30	Pass
		Inner_1RB_Left	21.49	/	/	24.69	/	/	<=30	Pass
CP-OFDM QPSK	3750	Inner_1RB_Right	21.02	/	/	24.22	/	/	<=30	Pass
		Edge_1RB_Left	22.20	/	/	25.4	/	/	<=30	Pass
		Edge_1RB_Right	22.93	/	/	26.13	/	/	<=30	Pass
		Outer_Full	23.11	/	/	26.31	/	/	<=30	Pass
		Inner_Full	24.59	/	/	27.79	/	/	<=30	Pass
	3840	Inner_1RB_Left	24.16	/	/	27.36	/	/	<=30	Pass
		Inner_1RB_Right	24.89	/	/	28.09	/	/	<=30	Pass
		Edge_1RB_Left	22.92	/	/	26.12	/	/	<=30	Pass
		Edge_1RB_Right	22.61	/	/	25.81	/	/	<=30	Pass
		Outer_Full	23.17	/	/	26.37	/	/	<=30	Pass
3930	Inner_Full	24.53	/	/	27.73	/	/	<=30	Pass	
	Inner_1RB_Left	24.97	/	/	28.17	/	/	<=30	Pass	
	Inner_1RB_Right	24.58	/	/	27.78	/	/	<=30	Pass	
	Edge_1RB_Left	22.76	/	/	25.96	/	/	<=30	Pass	
	Edge_1RB_Right	22.33	/	/	25.53	/	/	<=30	Pass	
CP-OFDM 16 QAM	3750	Outer_Full	22.98	/	/	26.18	/	/	<=30	Pass
		Inner_Full	24.54	/	/	27.74	/	/	<=30	Pass
		Inner_1RB_Left	24.72	/	/	27.92	/	/	<=30	Pass
		Inner_1RB_Right	24.21	/	/	27.41	/	/	<=30	Pass
		Edge_1RB_Left	22.04	/	/	25.24	/	/	<=30	Pass
	3840	Edge_1RB_Right	22.77	/	/	25.97	/	/	<=30	Pass
		Outer_Full	23.11	/	/	26.31	/	/	<=30	Pass
		Inner_Full	24.08	/	/	27.28	/	/	<=30	Pass
		Inner_1RB_Left	23.53	/	/	26.73	/	/	<=30	Pass
		Inner_1RB_Right	24.31	/	/	27.51	/	/	<=30	Pass
3930	Edge_1RB_Left	22.80	/	/	26	/	/	<=30	Pass	
	Edge_1RB_Right	22.56	/	/	25.76	/	/	<=30	Pass	
	Outer_Full	23.18	/	/	26.38	/	/	<=30	Pass	
	Inner_Full	24.04	/	/	27.24	/	/	<=30	Pass	
	Inner_1RB_Left	24.26	/	/	27.46	/	/	<=30	Pass	
CP-OFDM 64 QAM	3750	Inner_1RB_Right	23.97	/	/	27.17	/	/	<=30	Pass
		Edge_1RB_Left	22.50	/	/	25.7	/	/	<=30	Pass
		Edge_1RB_Right	22.21	/	/	25.41	/	/	<=30	Pass
		Outer_Full	22.97	/	/	26.17	/	/	<=30	Pass
		Inner_Full	24.05	/	/	27.25	/	/	<=30	Pass
		Inner_1RB_Left	24.05	/	/	27.25	/	/	<=30	Pass
		Inner_1RB_Right	23.72	/	/	26.92	/	/	<=30	Pass
		Edge_1RB_Left	22.13	/	/	25.33	/	/	<=30	Pass



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		Edge_1RB_Right	23.00	/	/	26.2	/	/	<=30	Pass
		Outer_Full	22.55	/	/	25.75	/	/	<=30	Pass
		Inner_Full	22.61	/	/	25.81	/	/	<=30	Pass
		Inner_1RB_Left	22.06	/	/	25.26	/	/	<=30	Pass
		Inner_1RB_Right	22.94	/	/	26.14	/	/	<=30	Pass
	3840	Edge_1RB_Left	22.97	/	/	26.17	/	/	<=30	Pass
		Edge_1RB_Right	22.67	/	/	25.87	/	/	<=30	Pass
		Outer_Full	22.73	/	/	25.93	/	/	<=30	Pass
		Inner_Full	22.48	/	/	25.68	/	/	<=30	Pass
		Inner_1RB_Left	23.10	/	/	26.3	/	/	<=30	Pass
	3930	Inner_1RB_Right	22.70	/	/	25.9	/	/	<=30	Pass
		Edge_1RB_Left	22.66	/	/	25.86	/	/	<=30	Pass
		Edge_1RB_Right	22.34	/	/	25.54	/	/	<=30	Pass
		Outer_Full	22.49	/	/	25.69	/	/	<=30	Pass
		Inner_Full	22.51	/	/	25.71	/	/	<=30	Pass
CP-OFDM 256 QAM	3750	Inner_1RB_Left	22.67	/	/	25.87	/	/	<=30	Pass
		Inner_1RB_Right	22.34	/	/	25.54	/	/	<=30	Pass
		Edge_1RB_Left	19.12	/	/	22.32	/	/	<=30	Pass
		Edge_1RB_Right	19.85	/	/	23.05	/	/	<=30	Pass
		Outer_Full	19.58	/	/	22.78	/	/	<=30	Pass
	3840	Inner_Full	19.69	/	/	22.89	/	/	<=30	Pass
		Inner_1RB_Left	18.97	/	/	22.17	/	/	<=30	Pass
		Inner_1RB_Right	19.81	/	/	23.01	/	/	<=30	Pass
		Edge_1RB_Left	19.93	/	/	23.13	/	/	<=30	Pass
		Edge_1RB_Right	19.67	/	/	22.87	/	/	<=30	Pass
	3930	Outer_Full	19.69	/	/	22.89	/	/	<=30	Pass
		Inner_Full	19.51	/	/	22.71	/	/	<=30	Pass
		Inner_1RB_Left	19.95	/	/	23.15	/	/	<=30	Pass
		Inner_1RB_Right	19.66	/	/	22.86	/	/	<=30	Pass
		Edge_1RB_Left	19.61	/	/	22.81	/	/	<=30	Pass
	Edge_1RB_Right	19.27	/	/	22.47	/	/	<=30	Pass	
	Outer_Full	19.45	/	/	22.65	/	/	<=30	Pass	
	Inner_Full	19.64	/	/	22.84	/	/	<=30	Pass	
	Inner_1RB_Left	19.61	/	/	22.81	/	/	<=30	Pass	
	Inner_1RB_Right	19.33	/	/	22.53	/	/	<=30	Pass	

Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi;

Note2: EIRP=Conducted Power+Antenna Gain

1.7 30k_MIMO_20MHz_NTNV_EIRP

1.7.1 Test Result

5G NR n77a SCS=30kHz MIMO 20MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3710.01	Edge_1RB_Left	19.70	19.31	22.52	22.9	22.51	25.72	<=30	Pass



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		Edge_1RB_Right	20.04	19.32	22.71	23.24	22.52	25.91	<=30	Pass
		Outer_Full	20.11	19.83	22.98	23.31	23.03	26.18	<=30	Pass
		Inner_Full	21.56	21.23	24.41	24.76	24.43	27.61	<=30	Pass
		Inner_1RB_Left	21.76	21.33	24.56	24.96	24.53	27.76	<=30	Pass
		Inner_1RB_Right	21.98	21.34	24.68	25.18	24.54	27.88	<=30	Pass
	3840	Edge_1RB_Left	19.86	19.37	22.63	23.06	22.57	25.83	<=30	Pass
		Edge_1RB_Right	19.87	19.42	22.66	23.07	22.62	25.86	<=30	Pass
		Outer_Full	20.17	19.99	23.09	23.37	23.19	26.29	<=30	Pass
		Inner_Full	21.55	21.46	24.52	24.75	24.66	27.72	<=30	Pass
		Inner_1RB_Left	21.91	21.35	24.65	25.11	24.55	27.85	<=30	Pass
	3969.99	Inner_1RB_Right	21.95	21.38	24.69	25.15	24.58	27.89	<=30	Pass
		Edge_1RB_Left	20.00	20.13	23.08	23.2	23.33	26.28	<=30	Pass
		Edge_1RB_Right	19.97	20.38	23.19	23.17	23.58	26.39	<=30	Pass
		Outer_Full	20.21	20.73	23.49	23.41	23.93	26.69	<=30	Pass
		Inner_Full	21.67	22.16	24.93	24.87	25.36	28.13	<=30	Pass
CP-OFDM 16 QAM	3710.01	Inner_1RB_Left	22.02	22.11	25.07	25.22	25.31	28.27	<=30	Pass
		Inner_1RB_Right	21.96	22.21	25.10	25.16	25.41	28.3	<=30	Pass
		Edge_1RB_Left	13.33	-33.13	13.33	16.53	-29.93	16.53	<=30	Pass
		Edge_1RB_Right	19.93	19.62	22.79	23.13	22.82	25.99	<=30	Pass
		Outer_Full	20.05	19.77	22.93	23.25	22.97	26.13	<=30	Pass
	3840	Inner_Full	21.09	20.81	23.97	24.29	24.01	27.17	<=30	Pass
		Inner_1RB_Left	21.08	21.01	24.05	24.28	24.21	27.25	<=30	Pass
		Inner_1RB_Right	21.45	21.11	24.29	24.65	24.31	27.49	<=30	Pass
		Edge_1RB_Left	19.84	19.59	22.72	23.04	22.79	25.92	<=30	Pass
		Edge_1RB_Right	19.79	19.69	22.75	22.99	22.89	25.95	<=30	Pass
	3969.99	Outer_Full	20.22	19.98	23.11	23.42	23.18	26.31	<=30	Pass
		Inner_Full	21.17	20.98	24.09	24.37	24.18	27.29	<=30	Pass
		Inner_1RB_Left	21.36	21.15	24.26	24.56	24.35	27.46	<=30	Pass
		Inner_1RB_Right	21.30	21.21	24.27	24.5	24.41	27.47	<=30	Pass
		Edge_1RB_Left	19.94	20.40	23.18	23.14	23.6	26.38	<=30	Pass
CP-OFDM 64 QAM	3710.01	Edge_1RB_Right	19.80	20.55	23.20	23	23.75	26.4	<=30	Pass
		Outer_Full	20.16	20.70	23.45	23.36	23.9	26.65	<=30	Pass
		Inner_Full	21.17	21.72	24.47	24.37	24.92	27.67	<=30	Pass
		Inner_1RB_Left	21.48	21.91	24.71	24.68	25.11	27.91	<=30	Pass
		Inner_1RB_Right	21.39	21.93	24.68	24.59	25.13	27.88	<=30	Pass
	3840	Edge_1RB_Left	19.35	19.05	22.21	22.55	22.25	25.41	<=30	Pass
		Edge_1RB_Right	19.77	19.07	22.44	22.97	22.27	25.64	<=30	Pass
		Outer_Full	19.50	19.26	22.40	22.7	22.46	25.6	<=30	Pass
		Inner_Full	19.39	19.11	22.26	22.59	22.31	25.46	<=30	Pass
		Inner_1RB_Left	19.40	19.07	22.25	22.6	22.27	25.45	<=30	Pass
	3969.99	Inner_1RB_Right	19.71	19.00	22.38	22.91	22.2	25.58	<=30	Pass
		Edge_1RB_Left	19.57	19.26	22.43	22.77	22.46	25.63	<=30	Pass
		Edge_1RB_Right	19.64	19.28	22.47	22.84	22.48	25.67	<=30	Pass
		Outer_Full	19.71	19.46	22.60	22.91	22.66	25.8	<=30	Pass
		Inner_Full	19.55	19.42	22.50	22.75	22.62	25.7	<=30	Pass
	Inner_1RB_Left	19.62	19.20	22.43	22.82	22.4	25.63	<=30	Pass	
	Inner_1RB_Right	19.68	19.24	22.48	22.88	22.44	25.68	<=30	Pass	
	Edge_1RB_Left	19.70	20.01	22.87	22.9	23.21	26.07	<=30	Pass	



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CP-OFDM 256 QAM	3710.01	Edge_1RB_Right	19.60	20.09	22.87	22.8	23.29	26.07	<=30	Pass
		Outer_Full	19.58	20.22	22.92	22.78	23.42	26.12	<=30	Pass
		Inner_Full	19.68	20.15	22.93	22.88	23.35	26.13	<=30	Pass
		Inner_1RB_Left	19.72	19.95	22.85	22.92	23.15	26.05	<=30	Pass
		Inner_1RB_Right	19.62	20.06	22.86	22.82	23.26	26.06	<=30	Pass
	3840	Edge_1RB_Left	16.66	16.28	19.48	19.86	19.48	22.68	<=30	Pass
		Edge_1RB_Right	16.96	16.32	19.66	20.16	19.52	22.86	<=30	Pass
		Outer_Full	16.55	16.25	19.41	19.75	19.45	22.61	<=30	Pass
		Inner_Full	16.41	16.30	19.37	19.61	19.5	22.57	<=30	Pass
		Inner_1RB_Left	16.62	16.27	19.46	19.82	19.47	22.66	<=30	Pass
	3969.99	Inner_1RB_Right	16.95	16.22	19.61	20.15	19.42	22.81	<=30	Pass
		Edge_1RB_Left	16.84	16.32	19.60	20.04	19.52	22.8	<=30	Pass
		Edge_1RB_Right	16.85	16.48	19.68	20.05	19.68	22.88	<=30	Pass
		Outer_Full	16.69	16.47	19.59	19.89	19.67	22.79	<=30	Pass
		Inner_Full	16.60	16.53	19.58	19.8	19.73	22.78	<=30	Pass
	3969.99	Inner_1RB_Left	16.87	16.30	19.61	20.07	19.5	22.81	<=30	Pass
		Inner_1RB_Right	16.84	16.37	19.62	20.04	19.57	22.82	<=30	Pass
		Edge_1RB_Left	16.97	17.11	20.05	20.17	20.31	23.25	<=30	Pass
		Edge_1RB_Right	16.82	17.27	20.06	20.02	20.47	23.26	<=30	Pass
		Outer_Full	16.84	17.28	20.08	20.04	20.48	23.28	<=30	Pass
3969.99	Inner_Full	16.60	17.28	19.97	19.8	20.48	23.17	<=30	Pass	
	Inner_1RB_Left	16.84	17.12	19.99	20.04	20.32	23.19	<=30	Pass	
	Inner_1RB_Right	16.86	17.25	20.07	20.06	20.45	23.27	<=30	Pass	

Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi;
 Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2

1.8 30k_MIMO_30MHz_NTNV_EIRP

1.8.1 Test Result

5G NR n77a SCS=30kHz MIMO 30MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3715.02	Edge_1RB_Left	19.67	19.26	22.48	22.87	22.46	25.68	<=30	Pass
		Edge_1RB_Right	20.18	19.27	22.76	23.38	22.47	25.96	<=30	Pass
		Outer_Full	20.16	19.71	22.95	23.36	22.91	26.15	<=30	Pass
		Inner_Full	21.73	21.34	24.55	24.93	24.54	27.75	<=30	Pass
		Inner_1RB_Left	21.64	21.29	24.48	24.84	24.49	27.68	<=30	Pass
		Inner_1RB_Right	22.10	21.36	24.76	25.3	24.56	27.96	<=30	Pass
	3840	Edge_1RB_Left	20.09	19.41	22.77	23.29	22.61	25.97	<=30	Pass
		Edge_1RB_Right	19.93	19.56	22.76	23.13	22.76	25.96	<=30	Pass
		Outer_Full	20.32	20.06	23.20	23.52	23.26	26.4	<=30	Pass
		Inner_Full	21.68	21.50	24.60	24.88	24.7	27.8	<=30	Pass
		Inner_1RB_Left	21.96	21.34	24.67	25.16	24.54	27.87	<=30	Pass
		Inner_1RB_Right	21.98	21.50	24.76	25.18	24.7	27.96	<=30	Pass



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	3964.98	Edge_1RB_Left	20.33	20.34	23.34	23.53	23.54	26.54	<=30	Pass
		Edge_1RB_Right	20.02	20.27	23.16	23.22	23.47	26.36	<=30	Pass
		Outer_Full	20.38	20.77	23.59	23.58	23.97	26.79	<=30	Pass
		Inner_Full	21.92	22.23	25.09	25.12	25.43	28.29	<=30	Pass
		Inner_1RB_Left	22.33	22.31	25.33	25.53	25.51	28.53	<=30	Pass
CP-OFDM 16 QAM	3715.02	Inner_1RB_Right	21.94	22.24	25.10	25.14	25.44	28.3	<=30	Pass
		Edge_1RB_Left	19.58	19.47	22.54	22.78	22.67	25.74	<=30	Pass
		Edge_1RB_Right	20.11	19.56	22.85	23.31	22.76	26.05	<=30	Pass
		Outer_Full	20.22	19.73	22.99	23.42	22.93	26.19	<=30	Pass
		Inner_Full	21.14	20.75	23.96	24.34	23.95	27.16	<=30	Pass
	3840	Inner_1RB_Left	21.13	20.86	24.01	24.33	24.06	27.21	<=30	Pass
		Inner_1RB_Right	21.69	21.08	24.41	24.89	24.28	27.61	<=30	Pass
		Edge_1RB_Left	20.06	19.49	22.79	23.26	22.69	25.99	<=30	Pass
		Edge_1RB_Right	20.06	19.71	22.90	23.26	22.91	26.1	<=30	Pass
		Outer_Full	20.28	19.92	23.11	23.48	23.12	26.31	<=30	Pass
	3964.98	Inner_Full	21.20	21.04	24.13	24.4	24.24	27.33	<=30	Pass
		Inner_1RB_Left	21.60	21.13	24.38	24.8	24.33	27.58	<=30	Pass
		Inner_1RB_Right	21.44	21.29	24.38	24.64	24.49	27.58	<=30	Pass
		Edge_1RB_Left	20.29	20.58	23.45	23.49	23.78	26.65	<=30	Pass
		Edge_1RB_Right	19.91	20.53	23.24	23.11	23.73	26.44	<=30	Pass
CP-OFDM 64 QAM	3715.02	Outer_Full	20.36	20.79	23.59	23.56	23.99	26.79	<=30	Pass
		Inner_Full	21.24	21.73	24.50	24.44	24.93	27.7	<=30	Pass
		Inner_1RB_Left	21.81	21.91	24.87	25.01	25.11	28.07	<=30	Pass
		Inner_1RB_Right	21.55	22.04	24.81	24.75	25.24	28.01	<=30	Pass
		Edge_1RB_Left	19.42	19.07	22.26	22.62	22.27	25.46	<=30	Pass
	3840	Edge_1RB_Right	19.96	19.15	22.58	23.16	22.35	25.78	<=30	Pass
		Outer_Full	19.67	19.23	22.46	22.87	22.43	25.66	<=30	Pass
		Inner_Full	19.58	19.12	22.37	22.78	22.32	25.57	<=30	Pass
		Inner_1RB_Left	19.44	19.07	22.27	22.64	22.27	25.47	<=30	Pass
		Inner_1RB_Right	19.97	19.16	22.59	23.17	22.36	25.79	<=30	Pass
	3964.98	Edge_1RB_Left	19.86	19.23	22.57	23.06	22.43	25.77	<=30	Pass
		Edge_1RB_Right	19.77	19.36	22.58	22.97	22.56	25.78	<=30	Pass
		Outer_Full	19.77	19.41	22.60	22.97	22.61	25.8	<=30	Pass
		Inner_Full	19.70	19.38	22.55	22.9	22.58	25.75	<=30	Pass
		Inner_1RB_Left	19.84	19.22	22.55	23.04	22.42	25.75	<=30	Pass
CP-OFDM 256 QAM	3715.02	Inner_1RB_Right	19.75	19.35	22.56	22.95	22.55	25.76	<=30	Pass
		Edge_1RB_Left	20.05	20.07	23.07	23.25	23.27	26.27	<=30	Pass
		Edge_1RB_Right	19.62	20.18	22.92	22.82	23.38	26.12	<=30	Pass
		Outer_Full	19.87	20.28	23.09	23.07	23.48	26.29	<=30	Pass
		Inner_Full	19.75	20.18	22.98	22.95	23.38	26.18	<=30	Pass
		Inner_1RB_Left	19.95	20.07	23.02	23.15	23.27	26.22	<=30	Pass
		Inner_1RB_Right	19.63	20.11	22.89	22.83	23.31	26.09	<=30	Pass
		Edge_1RB_Left	16.67	16.24	19.47	19.87	19.44	22.67	<=30	Pass
		Edge_1RB_Right	17.12	16.27	19.72	20.32	19.47	22.92	<=30	Pass
		Outer_Full	16.75	16.23	19.51	19.95	19.43	22.71	<=30	Pass



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	3840	Edge_1RB_Left	17.12	16.33	19.75	20.32	19.53	22.95	<=30	Pass
		Edge_1RB_Right	16.97	16.45	19.73	20.17	19.65	22.93	<=30	Pass
		Outer_Full	16.85	16.52	19.70	20.05	19.72	22.9	<=30	Pass
		Inner_Full	16.73	16.46	19.61	19.93	19.66	22.81	<=30	Pass
		Inner_1RB_Left	17.08	16.36	19.75	20.28	19.56	22.95	<=30	Pass
	Inner_1RB_Right	16.99	16.56	19.79	20.19	19.76	22.99	<=30	Pass	
	3964.98	Edge_1RB_Left	17.41	17.35	20.39	20.61	20.55	23.59	<=30	Pass
		Edge_1RB_Right	16.93	17.24	20.10	20.13	20.44	23.3	<=30	Pass
		Outer_Full	16.85	17.25	20.07	20.05	20.45	23.27	<=30	Pass
		Inner_Full	16.89	17.19	20.05	20.09	20.39	23.25	<=30	Pass
Inner_1RB_Left		17.34	17.18	20.27	20.54	20.38	23.47	<=30	Pass	
		Inner_1RB_Right	16.86	17.27	20.08	20.06	20.47	23.28	<=30	Pass

Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi;

Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2

1.9 30k_MIMO_40MHz_NTNV_EIRP

1.9.1 Test Result

5G NR n77a SCS=30kHz MIMO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3720	Edge_1RB_Left	19.81	19.49	22.66	23.01	22.69	25.86	<=30	Pass
		Edge_1RB_Right	20.11	19.65	22.90	23.31	22.85	26.1	<=30	Pass
		Outer_Full	20.32	19.81	23.08	23.52	23.01	26.28	<=30	Pass
		Inner_Full	21.93	21.39	24.68	25.13	24.59	27.88	<=30	Pass
		Inner_1RB_Left	21.81	21.43	24.64	25.01	24.63	27.84	<=30	Pass
		Inner_1RB_Right	22.33	21.53	24.96	25.53	24.73	28.16	<=30	Pass
	3840	Edge_1RB_Left	20.28	19.55	22.94	23.48	22.75	26.14	<=30	Pass
		Edge_1RB_Right	19.88	19.50	22.71	23.08	22.7	25.91	<=30	Pass
		Outer_Full	20.28	20.06	23.18	23.48	23.26	26.38	<=30	Pass
		Inner_Full	21.72	21.55	24.65	24.92	24.75	27.85	<=30	Pass
		Inner_1RB_Left	22.31	21.40	24.89	25.51	24.6	28.09	<=30	Pass
		Inner_1RB_Right	22.00	21.41	24.73	25.2	24.61	27.93	<=30	Pass
	3960	Edge_1RB_Left	20.26	20.27	23.28	23.46	23.47	26.48	<=30	Pass
		Edge_1RB_Right	19.83	20.41	23.14	23.03	23.61	26.34	<=30	Pass
		Outer_Full	20.43	20.70	23.58	23.63	23.9	26.78	<=30	Pass
		Inner_Full	21.92	22.18	25.07	25.12	25.38	28.27	<=30	Pass
		Inner_1RB_Left	22.34	22.19	25.27	25.54	25.39	28.47	<=30	Pass
		Inner_1RB_Right	21.92	22.27	25.11	25.12	25.47	28.31	<=30	Pass
CP-OFDM 16 QAM	3720	Edge_1RB_Left	19.81	19.73	22.78	23.01	22.93	25.98	<=30	Pass
		Edge_1RB_Right	20.06	19.86	22.97	23.26	23.06	26.17	<=30	Pass
		Outer_Full	20.32	19.85	23.10	23.52	23.05	26.3	<=30	Pass
		Inner_Full	21.50	20.81	24.18	24.7	24.01	27.38	<=30	Pass
		Inner_1RB_Left	21.40	21.17	24.30	24.6	24.37	27.5	<=30	Pass



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	3840	Inner_1RB_Right	21.66	21.28	24.49	24.86	24.48	27.69	<=30	Pass	
		Edge_1RB_Left	20.31	19.64	23.00	23.51	22.84	26.2	<=30	Pass	
		Edge_1RB_Right	20.00	19.75	22.89	23.2	22.95	26.09	<=30	Pass	
		Outer_Full	20.32	20.01	23.18	23.52	23.21	26.38	<=30	Pass	
		Inner_Full	21.24	20.98	24.12	24.44	24.18	27.32	<=30	Pass	
		Inner_1RB_Left	21.72	21.26	24.51	24.92	24.46	27.71	<=30	Pass	
	3960	Inner_1RB_Right	21.55	21.23	24.40	24.75	24.43	27.6	<=30	Pass	
		Edge_1RB_Left	20.24	20.39	23.33	23.44	23.59	26.53	<=30	Pass	
		Edge_1RB_Right	19.81	20.24	23.04	23.01	23.44	26.24	<=30	Pass	
		Outer_Full	20.46	20.67	23.58	23.66	23.87	26.78	<=30	Pass	
		Inner_Full	21.39	21.66	24.54	24.59	24.86	27.74	<=30	Pass	
		Inner_1RB_Left	21.95	21.80	24.89	25.15	25	28.09	<=30	Pass	
	CP-OFDM 64 QAM	3720	Inner_1RB_Right	21.38	21.89	24.65	24.58	25.09	27.85	<=30	Pass
			Edge_1RB_Left	19.59	19.32	22.47	22.79	22.52	25.67	<=30	Pass
Edge_1RB_Right			20.02	19.49	22.77	23.22	22.69	25.97	<=30	Pass	
Outer_Full			19.80	19.34	22.58	23	22.54	25.78	<=30	Pass	
Inner_Full			19.76	19.31	22.55	22.96	22.51	25.75	<=30	Pass	
Inner_1RB_Left			19.57	19.22	22.41	22.77	22.42	25.61	<=30	Pass	
3840		Inner_1RB_Right	20.02	19.31	22.69	23.22	22.51	25.89	<=30	Pass	
		Edge_1RB_Left	20.09	19.31	22.73	23.29	22.51	25.93	<=30	Pass	
		Edge_1RB_Right	19.80	19.38	22.60	23	22.58	25.8	<=30	Pass	
		Outer_Full	19.80	19.41	22.62	23	22.61	25.82	<=30	Pass	
		Inner_Full	19.71	19.48	22.60	22.91	22.68	25.8	<=30	Pass	
		Inner_1RB_Left	20.08	19.30	22.72	23.28	22.5	25.92	<=30	Pass	
3960		Inner_1RB_Right	19.79	19.31	22.57	22.99	22.51	25.77	<=30	Pass	
		Edge_1RB_Left	20.28	20.31	23.30	23.48	23.51	26.5	<=30	Pass	
		Edge_1RB_Right	19.68	20.23	22.97	22.88	23.43	26.17	<=30	Pass	
		Outer_Full	19.94	20.23	23.10	23.14	23.43	26.3	<=30	Pass	
		Inner_Full	19.92	20.22	23.08	23.12	23.42	26.28	<=30	Pass	
		Inner_1RB_Left	20.39	20.16	23.28	23.59	23.36	26.48	<=30	Pass	
CP-OFDM 256 QAM	3720	Inner_1RB_Right	19.58	20.41	23.02	22.78	23.61	26.22	<=30	Pass	
		Edge_1RB_Left	16.87	16.48	19.69	20.07	19.68	22.89	<=30	Pass	
		Edge_1RB_Right	17.22	16.51	19.89	20.42	19.71	23.09	<=30	Pass	
		Outer_Full	16.82	16.37	19.61	20.02	19.57	22.81	<=30	Pass	
		Inner_Full	16.86	16.31	19.60	20.06	19.51	22.8	<=30	Pass	
		Inner_1RB_Left	16.90	16.52	19.72	20.1	19.72	22.92	<=30	Pass	
	3840	Inner_1RB_Right	17.15	16.41	19.81	20.35	19.61	23.01	<=30	Pass	
		Edge_1RB_Left	17.45	16.48	20.00	20.65	19.68	23.2	<=30	Pass	
		Edge_1RB_Right	17.07	16.57	19.84	20.27	19.77	23.04	<=30	Pass	
		Outer_Full	16.89	16.46	19.69	20.09	19.66	22.89	<=30	Pass	
		Inner_Full	16.80	16.47	19.65	20	19.67	22.85	<=30	Pass	
		Inner_1RB_Left	17.47	16.47	20.01	20.67	19.67	23.21	<=30	Pass	
	3960	Inner_1RB_Right	17.12	16.54	19.85	20.32	19.74	23.05	<=30	Pass	
		Edge_1RB_Left	17.39	17.23	20.32	20.59	20.43	23.52	<=30	Pass	
		Edge_1RB_Right	17.23	17.38	20.31	20.43	20.58	23.51	<=30	Pass	
		Outer_Full	16.92	17.15	20.05	20.12	20.35	23.25	<=30	Pass	
		Inner_Full	16.88	17.20	20.05	20.08	20.4	23.25	<=30	Pass	
		Inner_1RB_Left	17.04	17.29	20.18	20.24	20.49	23.38	<=30	Pass	



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		Inner_1RB_Right	16.78	17.25	20.03	19.98	20.45	23.23	<=30	Pass
Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi; Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2										

1.10 30k_MIMO_60MHz_NTNV_EIRP

1.10.1 Test Result

5G NR n77a SCS=30kHz MIMO 60MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3730.02	Edge_1RB_Left	19.45	19.10	22.29	22.65	22.3	25.49	<=30	Pass
		Edge_1RB_Right	19.70	19.17	22.45	22.9	22.37	25.65	<=30	Pass
		Outer_Full	20.16	19.64	22.92	23.36	22.84	26.12	<=30	Pass
		Inner_Full	21.80	21.20	24.52	25	24.4	27.72	<=30	Pass
		Inner_1RB_Left	21.41	21.03	24.23	24.61	24.23	27.43	<=30	Pass
		Inner_1RB_Right	21.64	21.12	24.40	24.84	24.32	27.6	<=30	Pass
	3840	Edge_1RB_Left	20.12	19.20	22.69	23.32	22.4	25.89	<=30	Pass
		Edge_1RB_Right	19.87	19.25	22.58	23.07	22.45	25.78	<=30	Pass
		Outer_Full	20.28	19.88	23.10	23.48	23.08	26.3	<=30	Pass
		Inner_Full	21.58	21.27	24.44	24.78	24.47	27.64	<=30	Pass
		Inner_1RB_Left	22.02	21.21	24.65	25.22	24.41	27.85	<=30	Pass
		Inner_1RB_Right	21.88	21.27	24.59	25.08	24.47	27.79	<=30	Pass
	3949.98	Edge_1RB_Left	19.83	19.50	22.68	23.03	22.7	25.88	<=30	Pass
		Edge_1RB_Right	19.48	19.65	22.58	22.68	22.85	25.78	<=30	Pass
		Outer_Full	20.11	20.11	23.12	23.31	23.31	26.32	<=30	Pass
		Inner_Full	21.63	21.73	24.69	24.83	24.93	27.89	<=30	Pass
		Inner_1RB_Left	22.02	21.38	24.72	25.22	24.58	27.92	<=30	Pass
		Inner_1RB_Right	21.51	21.62	24.58	24.71	24.82	27.78	<=30	Pass
CP-OFDM 16 QAM	3730.02	Edge_1RB_Left	19.39	19.19	22.30	22.59	22.39	25.5	<=30	Pass
		Edge_1RB_Right	19.70	19.35	22.54	22.9	22.55	25.74	<=30	Pass
		Outer_Full	20.12	19.54	22.85	23.32	22.74	26.05	<=30	Pass
		Inner_Full	21.36	20.67	24.04	24.56	23.87	27.24	<=30	Pass
		Inner_1RB_Left	20.87	20.82	23.85	24.07	24.02	27.05	<=30	Pass
		Inner_1RB_Right	21.23	20.90	24.08	24.43	24.1	27.28	<=30	Pass
	3840	Edge_1RB_Left	20.12	19.52	22.84	23.32	22.72	26.04	<=30	Pass
		Edge_1RB_Right	19.93	19.55	22.76	23.13	22.75	25.96	<=30	Pass
		Outer_Full	20.31	19.74	23.04	23.51	22.94	26.24	<=30	Pass
		Inner_Full	21.13	20.79	23.97	24.33	23.99	27.17	<=30	Pass
		Inner_1RB_Left	21.64	20.93	24.31	24.84	24.13	27.51	<=30	Pass
		Inner_1RB_Right	21.45	21.01	24.25	24.65	24.21	27.45	<=30	Pass
	3949.98	Edge_1RB_Left	19.55	19.51	22.54	22.75	22.71	25.74	<=30	Pass
		Edge_1RB_Right	19.45	19.74	22.61	22.65	22.94	25.81	<=30	Pass
		Outer_Full	20.17	20.08	23.13	23.37	23.28	26.33	<=30	Pass
		Inner_Full	21.18	21.15	24.17	24.38	24.35	27.37	<=30	Pass



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CP-OFDM 64 QAM	3730.02	Inner_1RB_Left	21.28	21.26	24.28	24.48	24.46	27.48	<=30	Pass		
		Inner_1RB_Right	21.02	21.33	24.19	24.22	24.53	27.39	<=30	Pass		
		Edge_1RB_Left	19.17	18.87	22.03	22.37	22.07	25.23	<=30	Pass		
		Edge_1RB_Right	19.42	18.94	22.19	22.62	22.14	25.39	<=30	Pass		
		Outer_Full	19.58	19.08	22.35	22.78	22.28	25.55	<=30	Pass		
		Inner_Full	19.75	19.08	22.44	22.95	22.28	25.64	<=30	Pass		
	3840	3840	Inner_1RB_Left	19.19	18.85	22.03	22.39	22.05	25.23	<=30	Pass	
			Inner_1RB_Right	19.41	19.04	22.24	22.61	22.24	25.44	<=30	Pass	
			Edge_1RB_Left	19.95	19.09	22.55	23.15	22.29	25.75	<=30	Pass	
			Edge_1RB_Right	19.72	19.07	22.42	22.92	22.27	25.62	<=30	Pass	
			Outer_Full	19.71	19.23	22.49	22.91	22.43	25.69	<=30	Pass	
			Inner_Full	19.65	19.28	22.48	22.85	22.48	25.68	<=30	Pass	
	3949.98	3949.98	Inner_1RB_Left	19.90	18.99	22.48	23.1	22.19	25.68	<=30	Pass	
			Inner_1RB_Right	19.72	19.10	22.43	22.92	22.3	25.63	<=30	Pass	
			Edge_1RB_Left	19.57	19.30	22.45	22.77	22.5	25.65	<=30	Pass	
			Edge_1RB_Right	19.27	19.55	22.42	22.47	22.75	25.62	<=30	Pass	
			Outer_Full	19.62	19.65	22.64	22.82	22.85	25.84	<=30	Pass	
			Inner_Full	19.74	19.62	22.69	22.94	22.82	25.89	<=30	Pass	
CP-OFDM 256 QAM	3730.02	3730.02	Inner_1RB_Left	19.54	19.27	22.42	22.74	22.47	25.62	<=30	Pass	
			Inner_1RB_Right	19.29	19.55	22.43	22.49	22.75	25.63	<=30	Pass	
			Edge_1RB_Left	16.56	16.08	19.33	19.76	19.28	22.53	<=30	Pass	
			Edge_1RB_Right	16.70	16.12	19.43	19.9	19.32	22.63	<=30	Pass	
			Outer_Full	16.61	16.13	19.39	19.81	19.33	22.59	<=30	Pass	
			Inner_Full	16.79	16.07	19.45	19.99	19.27	22.65	<=30	Pass	
	3840	3840	3840	Inner_1RB_Left	16.53	16.13	19.34	19.73	19.33	22.54	<=30	Pass
				Inner_1RB_Right	16.70	16.20	19.46	19.9	19.4	22.66	<=30	Pass
				Edge_1RB_Left	17.19	16.16	19.72	20.39	19.36	22.92	<=30	Pass
				Edge_1RB_Right	16.90	16.23	19.59	20.1	19.43	22.79	<=30	Pass
				Outer_Full	16.81	16.29	19.57	20.01	19.49	22.77	<=30	Pass
				Inner_Full	16.64	16.27	19.47	19.84	19.47	22.67	<=30	Pass
	3949.98	3949.98	3949.98	Inner_1RB_Left	17.22	16.16	19.73	20.42	19.36	22.93	<=30	Pass
				Inner_1RB_Right	16.88	16.27	19.60	20.08	19.47	22.8	<=30	Pass
				Edge_1RB_Left	16.82	16.46	19.66	20.02	19.66	22.86	<=30	Pass
				Edge_1RB_Right	16.29	16.69	19.50	19.49	19.89	22.7	<=30	Pass
				Outer_Full	16.64	16.64	19.65	19.84	19.84	22.85	<=30	Pass
				Inner_Full	16.74	16.71	19.73	19.94	19.91	22.93	<=30	Pass
3949.98	3949.98	3949.98	Inner_1RB_Left	16.63	16.66	19.65	19.83	19.86	22.85	<=30	Pass	
			Inner_1RB_Right	16.57	16.84	19.71	19.77	20.04	22.91	<=30	Pass	

Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi;

Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2

1.11 30k_MIMO_80MHz_NTNV_EIRP

1.11.1 Test Result



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5G NR n77a SCS=30kHz MIMO 80MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3740.01	Edge_1RB_Left	19.30	18.78	22.06	22.5	21.98	25.26	<=30	Pass
		Edge_1RB_Right	19.82	18.90	22.39	23.02	22.1	25.59	<=30	Pass
		Outer_Full	19.98	19.45	22.73	23.18	22.65	25.93	<=30	Pass
		Inner_Full	21.52	20.97	24.26	24.72	24.17	27.46	<=30	Pass
		Inner_1RB_Left	21.07	20.67	23.89	24.27	23.87	27.09	<=30	Pass
		Inner_1RB_Right	21.74	20.90	24.35	24.94	24.1	27.55	<=30	Pass
	3840	Edge_1RB_Left	19.99	19.06	22.56	23.19	22.26	25.76	<=30	Pass
		Edge_1RB_Right	19.67	19.18	22.44	22.87	22.38	25.64	<=30	Pass
		Outer_Full	20.10	19.56	22.85	23.3	22.76	26.05	<=30	Pass
		Inner_Full	21.35	21.10	24.23	24.55	24.3	27.43	<=30	Pass
		Inner_1RB_Left	21.92	21.12	24.55	25.12	24.32	27.75	<=30	Pass
		Inner_1RB_Right	21.57	21.12	24.36	24.77	24.32	27.56	<=30	Pass
	3939.99	Edge_1RB_Left	19.34	19.39	22.37	22.54	22.59	25.57	<=30	Pass
		Edge_1RB_Right	19.29	19.48	22.40	22.49	22.68	25.6	<=30	Pass
		Outer_Full	19.93	20.03	22.99	23.13	23.23	26.19	<=30	Pass
Inner_Full		21.56	21.49	24.53	24.76	24.69	27.73	<=30	Pass	
Inner_1RB_Left		21.25	21.23	24.25	24.45	24.43	27.45	<=30	Pass	
Inner_1RB_Right		21.24	21.53	24.40	24.44	24.73	27.6	<=30	Pass	
CP-OFDM 16 QAM	3740.01	Edge_1RB_Left	19.04	19.09	22.08	22.24	22.29	25.28	<=30	Pass
		Edge_1RB_Right	19.78	19.15	22.49	22.98	22.35	25.69	<=30	Pass
		Outer_Full	19.91	19.49	22.72	23.11	22.69	25.92	<=30	Pass
		Inner_Full	21.12	20.57	23.86	24.32	23.77	27.06	<=30	Pass
		Inner_1RB_Left	20.73	20.64	23.69	23.93	23.84	26.89	<=30	Pass
		Inner_1RB_Right	21.27	20.77	24.04	24.47	23.97	27.24	<=30	Pass
	3840	Edge_1RB_Left	19.92	19.40	22.67	23.12	22.6	25.87	<=30	Pass
		Edge_1RB_Right	19.69	19.34	22.53	22.89	22.54	25.73	<=30	Pass
		Outer_Full	20.00	19.59	22.81	23.2	22.79	26.01	<=30	Pass
		Inner_Full	20.88	20.64	23.77	24.08	23.84	26.97	<=30	Pass
		Inner_1RB_Left	21.42	20.76	24.11	24.62	23.96	27.31	<=30	Pass
		Inner_1RB_Right	21.20	20.89	24.06	24.4	24.09	27.26	<=30	Pass
	3939.99	Edge_1RB_Left	19.14	19.61	22.39	22.34	22.81	25.59	<=30	Pass
		Edge_1RB_Right	19.25	19.74	22.51	22.45	22.94	25.71	<=30	Pass
		Outer_Full	19.84	20.06	22.96	23.04	23.26	26.16	<=30	Pass
Inner_Full		21.12	21.05	24.10	24.32	24.25	27.3	<=30	Pass	
Inner_1RB_Left		20.65	21.07	23.88	23.85	24.27	27.08	<=30	Pass	
Inner_1RB_Right		20.69	21.35	24.04	23.89	24.55	27.24	<=30	Pass	
CP-OFDM 64 QAM	3740.01	Edge_1RB_Left	19.00	18.69	21.86	22.2	21.89	25.06	<=30	Pass
		Edge_1RB_Right	19.64	18.68	22.20	22.84	21.88	25.4	<=30	Pass
		Outer_Full	19.46	19.03	22.26	22.66	22.23	25.46	<=30	Pass
		Inner_Full	19.57	19.06	22.33	22.77	22.26	25.53	<=30	Pass
		Inner_1RB_Left	19.00	18.68	21.85	22.2	21.88	25.05	<=30	Pass
		Inner_1RB_Right	19.63	18.70	22.20	22.83	21.9	25.4	<=30	Pass
	3840	Edge_1RB_Left	19.68	18.98	22.36	22.88	22.18	25.56	<=30	Pass
		Edge_1RB_Right	19.48	18.93	22.22	22.68	22.13	25.42	<=30	Pass
		Outer_Full	19.47	19.11	22.31	22.67	22.31	25.51	<=30	Pass



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		Inner_Full	19.37	19.15	22.27	22.57	22.35	25.47	<=30	Pass	
		Inner_1RB_Left	19.75	18.83	22.32	22.95	22.03	25.52	<=30	Pass	
		Inner_1RB_Right	19.44	19.18	22.32	22.64	22.38	25.52	<=30	Pass	
	3939.99		Edge_1RB_Left	19.09	19.25	22.18	22.29	22.45	25.38	<=30	Pass
			Edge_1RB_Right	19.07	19.33	22.21	22.27	22.53	25.41	<=30	Pass
			Outer_Full	19.43	19.58	22.51	22.63	22.78	25.71	<=30	Pass
			Inner_Full	19.61	19.56	22.60	22.81	22.76	25.8	<=30	Pass
			Inner_1RB_Left	19.07	19.20	22.14	22.27	22.4	25.34	<=30	Pass
			Inner_1RB_Right	19.16	19.28	22.23	22.36	22.48	25.43	<=30	Pass
	CP-OFDM 256 QAM	3740.01	Edge_1RB_Left	16.32	15.85	19.10	19.52	19.05	22.3	<=30	Pass
			Edge_1RB_Right	16.85	15.87	19.40	20.05	19.07	22.6	<=30	Pass
			Outer_Full	16.49	16.05	19.28	19.69	19.25	22.48	<=30	Pass
Inner_Full			16.56	16.08	19.34	19.76	19.28	22.54	<=30	Pass	
Inner_1RB_Left			16.25	15.80	19.04	19.45	19	22.24	<=30	Pass	
Inner_1RB_Right			16.85	15.90	19.41	20.05	19.1	22.61	<=30	Pass	
3840			Edge_1RB_Left	17.10	16.09	19.63	20.3	19.29	22.83	<=30	Pass
			Edge_1RB_Right	16.75	16.14	19.47	19.95	19.34	22.67	<=30	Pass
			Outer_Full	16.45	16.09	19.28	19.65	19.29	22.48	<=30	Pass
			Inner_Full	16.33	16.09	19.22	19.53	19.29	22.42	<=30	Pass
			Inner_1RB_Left	17.13	15.95	19.59	20.33	19.15	22.79	<=30	Pass
			Inner_1RB_Right	16.74	16.13	19.45	19.94	19.33	22.65	<=30	Pass
3939.99			Edge_1RB_Left	16.29	16.37	19.34	19.49	19.57	22.54	<=30	Pass
			Edge_1RB_Right	16.26	16.42	19.35	19.46	19.62	22.55	<=30	Pass
			Outer_Full	16.46	16.62	19.55	19.66	19.82	22.75	<=30	Pass
			Inner_Full	16.59	16.51	19.56	19.79	19.71	22.76	<=30	Pass
			Inner_1RB_Left	16.31	16.35	19.34	19.51	19.55	22.54	<=30	Pass
			Inner_1RB_Right	16.32	16.40	19.37	19.52	19.6	22.57	<=30	Pass

Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi;

Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2

1.12 30k_MIMO_100MHz_NTNV_EIRP

1.12.1 Test Result

5G NR n77a SCS=30kHz MIMO 100MHz NTN											
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict	
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit		
CP-OFDM QPSK	3750	Edge_1RB_Left	19.14	18.83	22.00	22.34	22.03	25.2	<=30	Pass	
		Edge_1RB_Right	20.00	19.05	22.56	23.2	22.25	25.76	<=30	Pass	
		Outer_Full	20.09	19.49	22.81	23.29	22.69	26.01	<=30	Pass	
		Inner_Full	21.60	21.13	24.38	24.8	24.33	27.58	<=30	Pass	
		Inner_1RB_Left	21.23	20.93	24.09	24.43	24.13	27.29	<=30	Pass	
		Inner_1RB_Right	22.03	20.96	24.54	25.23	24.16	27.74	<=30	Pass	
	3840		Edge_1RB_Left	19.94	19.05	22.53	23.14	22.25	25.73	<=30	Pass
			Edge_1RB_Right	19.69	19.31	22.51	22.89	22.51	25.71	<=30	Pass



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		Outer_Full	20.02	19.57	22.81	23.22	22.77	26.01	<=30	Pass		
		Inner_Full	21.38	21.09	24.25	24.58	24.29	27.45	<=30	Pass		
		Inner_1RB_Left	22.01	20.93	24.52	25.21	24.13	27.72	<=30	Pass		
		Inner_1RB_Right	21.75	21.42	24.60	24.95	24.62	27.8	<=30	Pass		
	3930	Edge_1RB_Left	19.70	19.25	22.49	22.9	22.45	25.69	<=30	Pass		
		Edge_1RB_Right	19.31	19.59	22.46	22.51	22.79	25.66	<=30	Pass		
		Outer_Full	19.94	20.08	23.02	23.14	23.28	26.22	<=30	Pass		
		Inner_Full	21.46	21.53	24.51	24.66	24.73	27.71	<=30	Pass		
		Inner_1RB_Left	21.75	21.10	24.45	24.95	24.3	27.65	<=30	Pass		
		Inner_1RB_Right	21.28	21.52	24.41	24.48	24.72	27.61	<=30	Pass		
		CP-OFDM 16 QAM	3750	Edge_1RB_Left	19.12	19.23	22.19	22.32	22.43	25.39	<=30	Pass
				Edge_1RB_Right	19.99	19.33	22.68	23.19	22.53	25.88	<=30	Pass
Outer_Full	20.06			19.52	22.81	23.26	22.72	26.01	<=30	Pass		
Inner_Full	21.00			20.56	23.79	24.2	23.76	26.99	<=30	Pass		
Inner_1RB_Left	20.79			20.67	23.74	23.99	23.87	26.94	<=30	Pass		
Inner_1RB_Right	21.61			20.78	24.23	24.81	23.98	27.43	<=30	Pass		
3840	Edge_1RB_Left		19.94	19.38	22.68	23.14	22.58	25.88	<=30	Pass		
	Edge_1RB_Right		19.67	19.63	22.66	22.87	22.83	25.86	<=30	Pass		
	Outer_Full		20.07	19.63	22.86	23.27	22.83	26.06	<=30	Pass		
	Inner_Full		20.96	20.65	23.81	24.16	23.85	27.01	<=30	Pass		
	Inner_1RB_Left		21.40	20.76	24.10	24.6	23.96	27.3	<=30	Pass		
	Inner_1RB_Right		21.12	21.01	24.07	24.32	24.21	27.27	<=30	Pass		
3930	Edge_1RB_Left	19.63	19.42	22.54	22.83	22.62	25.74	<=30	Pass			
	Edge_1RB_Right	19.27	19.90	22.61	22.47	23.1	25.81	<=30	Pass			
	Outer_Full	19.92	20.10	23.02	23.12	23.3	26.22	<=30	Pass			
	Inner_Full	20.98	21.12	24.06	24.18	24.32	27.26	<=30	Pass			
	Inner_1RB_Left	21.08	20.90	24.00	24.28	24.1	27.2	<=30	Pass			
	Inner_1RB_Right	20.78	21.29	24.05	23.98	24.49	27.25	<=30	Pass			
CP-OFDM 64 QAM	3750	Edge_1RB_Left	19.03	18.70	21.88	22.23	21.9	25.08	<=30	Pass		
		Edge_1RB_Right	19.84	18.86	22.39	23.04	22.06	25.59	<=30	Pass		
		Outer_Full	19.56	19.05	22.32	22.76	22.25	25.52	<=30	Pass		
		Inner_Full	19.53	19.10	22.33	22.73	22.3	25.53	<=30	Pass		
		Inner_1RB_Left	18.97	18.77	21.88	22.17	21.97	25.08	<=30	Pass		
		Inner_1RB_Right	19.88	18.91	22.43	23.08	22.11	25.63	<=30	Pass		
	3840	Edge_1RB_Left	19.79	18.90	22.38	22.99	22.1	25.58	<=30	Pass		
		Edge_1RB_Right	19.53	19.16	22.36	22.73	22.36	25.56	<=30	Pass		
		Outer_Full	19.58	19.12	22.37	22.78	22.32	25.57	<=30	Pass		
		Inner_Full	19.43	19.09	22.27	22.63	22.29	25.47	<=30	Pass		
		Inner_1RB_Left	19.79	18.84	22.35	22.99	22.04	25.55	<=30	Pass		
		Inner_1RB_Right	19.46	19.15	22.31	22.66	22.35	25.51	<=30	Pass		
	3930	Edge_1RB_Left	19.46	19.01	22.25	22.66	22.21	25.45	<=30	Pass		
		Edge_1RB_Right	19.19	19.38	22.29	22.39	22.58	25.49	<=30	Pass		
		Outer_Full	19.44	19.58	22.52	22.64	22.78	25.72	<=30	Pass		
		Inner_Full	19.49	19.57	22.54	22.69	22.77	25.74	<=30	Pass		
		Inner_1RB_Left	19.45	18.95	22.22	22.65	22.15	25.42	<=30	Pass		
		Inner_1RB_Right	19.16	19.26	22.23	22.36	22.46	25.43	<=30	Pass		
CP-OFDM 256 QAM	3750	Edge_1RB_Left	16.30	15.93	19.13	19.5	19.13	22.33	<=30	Pass		
		Edge_1RB_Right	17.11	16.01	19.60	20.31	19.21	22.8	<=30	Pass		



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3840	Outer_Full	16.57	16.09	19.34	19.77	19.29	22.54	<=30	Pass	
	Inner_Full	16.49	16.09	19.31	19.69	19.29	22.51	<=30	Pass	
	Inner_1RB_Left	16.27	15.83	19.07	19.47	19.03	22.27	<=30	Pass	
	Inner_1RB_Right	17.05	16.02	19.58	20.25	19.22	22.78	<=30	Pass	
	Edge_1RB_Left	16.93	16.03	19.52	20.13	19.23	22.72	<=30	Pass	
	Edge_1RB_Right	16.73	16.27	19.52	19.93	19.47	22.72	<=30	Pass	
	Outer_Full	16.57	16.16	19.38	19.77	19.36	22.58	<=30	Pass	
	Inner_Full	16.39	16.11	19.26	19.59	19.31	22.46	<=30	Pass	
	Inner_1RB_Left	16.97	16.05	19.54	20.17	19.25	22.74	<=30	Pass	
	Inner_1RB_Right	16.76	16.28	19.54	19.96	19.48	22.74	<=30	Pass	
	3930	Edge_1RB_Left	16.67	16.11	19.41	19.87	19.31	22.61	<=30	Pass
		Edge_1RB_Right	16.34	16.47	19.42	19.54	19.67	22.62	<=30	Pass
Outer_Full		16.45	16.49	19.48	19.65	19.69	22.68	<=30	Pass	
Inner_Full		16.51	16.65	19.59	19.71	19.85	22.79	<=30	Pass	
Inner_1RB_Left		16.63	16.10	19.38	19.83	19.3	22.58	<=30	Pass	
Inner_1RB_Right		16.42	16.41	19.42	19.62	19.61	22.62	<=30	Pass	

Note1: Antenna Gain: Ant1: 3.2dBi; Ant4: 3.2dBi;

Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2



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2. Frequency Stability

2.1 30k_SISO_20MHz

2.1.1 Test Result

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	-6.30	-0.0016	/	Pass
				HV	2.30	0.0006	/	Pass
			-30	NV	-8.40	-0.0022	/	Pass
				NV	5.80	0.0015	/	Pass
			-10	NV	-9.20	-0.0024	/	Pass
				NV	2.00	0.0005	/	Pass
			10	NV	-17.20	-0.0045	/	Pass
				NV	19.70	0.0051	/	Pass
			30	NV	9.20	0.0024	/	Pass
				NV	-4.50	-0.0012	/	Pass
50	NV	-4.40	-0.0011	/	Pass			
	NV							
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	9.80	0.0026	/	Pass
				HV	2.70	0.0007	/	Pass
			-30	NV	-8.50	-0.0022	/	Pass
				NV	-3.00	-0.0008	/	Pass
			-10	NV	-4.70	-0.0012	/	Pass
				NV	6.60	0.0017	/	Pass
			10	NV	-13.70	-0.0036	/	Pass
				NV	9.90	0.0026	/	Pass
			30	NV	-14.40	-0.0038	/	Pass
				NV	3.50	0.0009	/	Pass
50	NV	-8.50	-0.0022	/	Pass			
	NV							
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	-6.20	-0.0016	/	Pass
				HV	-8.20	-0.0021	/	Pass
			-30	NV	7.20	0.0019	/	Pass
				NV	-15.00	-0.0039	/	Pass
			-10	NV	-1.90	-0.0005	/	Pass
				NV	10.70	0.0028	/	Pass
			10	NV	8.80	0.0023	/	Pass
				NV	-11.40	-0.0030	/	Pass
			30	NV	3.20	0.0008	/	Pass
				NV	3.30	0.0009	/	Pass
50	NV	-11.20	-0.0029	/	Pass			
	NV							
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	-3.00	-0.0008	/	Pass
				HV	-6.70	-0.0017	/	Pass
			-30	NV	-2.20	-0.0006	/	Pass
				NV	-13.10	-0.0034	/	Pass



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			-10	NV	-13.80	-0.0036	/	Pass			
			0	NV	5.10	0.0013	/	Pass			
			10	NV	-8.80	-0.0023	/	Pass			
			20	NV	-6.80	-0.0018	/	Pass			
			30	NV	7.10	0.0018	/	Pass			
			40	NV	1.90	0.0005	/	Pass			
			50	NV	-12.60	-0.0033	/	Pass			
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	-19.50	-0.0051	/	Pass			
				HV	-4.60	-0.0012	/	Pass			
						-30	NV	7.60	0.0020	/	Pass
						-20	NV	-15.00	-0.0039	/	Pass
						-10	NV	12.30	0.0032	/	Pass
						0	NV	4.20	0.0011	/	Pass
						10	NV	-8.90	-0.0023	/	Pass
						20	NV	8.20	0.0021	/	Pass
						30	NV	11.50	0.0030	/	Pass
						40	NV	3.20	0.0008	/	Pass
			50	NV	9.90	0.0026	/	Pass			
CP-OFDM QPSK	3840	Outer_Full	20	LV	-3.70	-0.0010	/	Pass			
				HV	-3.80	-0.0010	/	Pass			
						-30	NV	-1.50	-0.0004	/	Pass
						-20	NV	-10.30	-0.0027	/	Pass
						-10	NV	-2.40	-0.0006	/	Pass
						0	NV	-13.30	-0.0035	/	Pass
						10	NV	-2.40	-0.0006	/	Pass
						20	NV	-2.30	-0.0006	/	Pass
						30	NV	-9.60	-0.0025	/	Pass
						40	NV	-8.00	-0.0021	/	Pass
			50	NV	7.40	0.0019	/	Pass			
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-1.80	-0.0005	/	Pass			
				HV	6.50	0.0017	/	Pass			
						-30	NV	-10.10	-0.0026	/	Pass
						-20	NV	-12.10	-0.0032	/	Pass
						-10	NV	-4.20	-0.0011	/	Pass
						0	NV	-6.20	-0.0016	/	Pass
						10	NV	-13.60	-0.0035	/	Pass
						20	NV	-10.20	-0.0027	/	Pass
						30	NV	6.70	0.0017	/	Pass
						40	NV	-7.10	-0.0018	/	Pass
			50	NV	1.80	0.0005	/	Pass			
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-9.60	-0.0025	/	Pass			
				HV	-9.20	-0.0024	/	Pass			
						-30	NV	-7.30	-0.0019	/	Pass
						-20	NV	-8.20	-0.0021	/	Pass
						-10	NV	-7.10	-0.0018	/	Pass
						0	NV	-19.20	-0.0050	/	Pass
						10	NV	-13.00	-0.0034	/	Pass
			20	NV	-0.90	-0.0002	/	Pass			



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			30	NV	-11.10	-0.0029	/	Pass
			40	NV	-5.80	-0.0015	/	Pass
			50	NV	-11.80	-0.0031	/	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-12.20	-0.0032	/	Pass
				HV	-7.70	-0.0020	/	Pass
			-30	NV	-4.00	-0.0010	/	Pass
			-20	NV	-8.90	-0.0023	/	Pass
			-10	NV	-11.10	-0.0029	/	Pass
			0	NV	-10.30	-0.0027	/	Pass
			10	NV	-11.70	-0.0030	/	Pass
			20	NV	-13.70	-0.0036	/	Pass
			30	NV	-14.40	-0.0038	/	Pass
			40	NV	-11.00	-0.0029	/	Pass
			50	NV	-11.70	-0.0030	/	Pass

2.2 30k_SISO_30MHz

2.2.1 Test Result

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	-5.10	-0.0013	/	Pass
				HV	3.00	0.0008	/	Pass
			-30	NV	8.90	0.0023	/	Pass
			-20	NV	-3.20	-0.0008	/	Pass
			-10	NV	-11.50	-0.0030	/	Pass
			0	NV	-3.20	-0.0008	/	Pass
			10	NV	-17.50	-0.0046	/	Pass
			20	NV	-6.40	-0.0017	/	Pass
			30	NV	5.80	0.0015	/	Pass
			40	NV	-15.20	-0.0040	/	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	-15.30	-0.0040	/	Pass
				HV	-4.80	-0.0013	/	Pass
			-30	NV	-4.50	-0.0012	/	Pass
			-20	NV	4.70	0.0012	/	Pass
			-10	NV	14.30	0.0037	/	Pass
			0	NV	-15.80	-0.0041	/	Pass
			10	NV	-14.90	-0.0039	/	Pass
			20	NV	-7.60	-0.0020	/	Pass
			30	NV	-4.10	-0.0011	/	Pass
			40	NV	-20.20	-0.0053	/	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	-21.00	-0.0055	/	Pass
				HV	-16.10	-0.0042	/	Pass



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			-30	NV	-4.70	-0.0012	/	Pass
			-20	NV	-17.10	-0.0045	/	Pass
			-10	NV	-22.60	-0.0059	/	Pass
			0	NV	-5.60	-0.0015	/	Pass
			10	NV	5.00	0.0013	/	Pass
			20	NV	-20.60	-0.0054	/	Pass
			30	NV	-5.00	-0.0013	/	Pass
			40	NV	-4.40	-0.0011	/	Pass
			50	NV	-9.60	-0.0025	/	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	-24.50	-0.0064	/	Pass
				HV	-9.60	-0.0025	/	Pass
			-30	NV	-15.10	-0.0039	/	Pass
			-20	NV	-5.50	-0.0014	/	Pass
			-10	NV	-7.20	-0.0019	/	Pass
			0	NV	-8.80	-0.0023	/	Pass
			10	NV	-18.80	-0.0049	/	Pass
			20	NV	-3.90	-0.0010	/	Pass
			30	NV	-17.40	-0.0045	/	Pass
			40	NV	-11.80	-0.0031	/	Pass
50	NV	3.70	0.0010	/	Pass			
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	-11.50	-0.0030	/	Pass
				HV	-6.80	-0.0018	/	Pass
			-30	NV	-5.60	-0.0015	/	Pass
			-20	NV	-2.30	-0.0006	/	Pass
			-10	NV	-5.90	-0.0015	/	Pass
			0	NV	-22.00	-0.0057	/	Pass
			10	NV	-19.90	-0.0052	/	Pass
			20	NV	-10.00	-0.0026	/	Pass
			30	NV	3.90	0.0010	/	Pass
			40	NV	8.50	0.0022	/	Pass
50	NV	-8.90	-0.0023	/	Pass			
CP-OFDM QPSK	3840	Outer_Full	20	LV	-9.70	-0.0025	/	Pass
				HV	-15.60	-0.0041	/	Pass
			-30	NV	-13.00	-0.0034	/	Pass
			-20	NV	-11.00	-0.0029	/	Pass
			-10	NV	6.00	0.0016	/	Pass
			0	NV	1.70	0.0004	/	Pass
			10	NV	-7.60	-0.0020	/	Pass
			20	NV	-11.90	-0.0031	/	Pass
			30	NV	-14.10	-0.0037	/	Pass
			40	NV	-6.40	-0.0017	/	Pass
50	NV	-9.50	-0.0025	/	Pass			
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-12.10	-0.0032	/	Pass
				HV	-10.20	-0.0027	/	Pass
			-30	NV	-8.70	-0.0023	/	Pass
			-20	NV	-3.50	-0.0009	/	Pass
			-10	NV	5.10	0.0013	/	Pass
			0	NV	-13.30	-0.0035	/	Pass



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			10	NV	-4.20	-0.0011	/	Pass
			20	NV	-15.80	-0.0041	/	Pass
			30	NV	3.10	0.0008	/	Pass
			40	NV	-4.20	-0.0011	/	Pass
			50	NV	-14.10	-0.0037	/	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-1.90	-0.0005	/	Pass
				HV	1.90	0.0005	/	Pass
			-30	NV	3.90	0.0010	/	Pass
			-20	NV	4.20	0.0011	/	Pass
			-10	NV	-12.10	-0.0032	/	Pass
			0	NV	-23.10	-0.0060	/	Pass
			10	NV	-18.20	-0.0047	/	Pass
			20	NV	-16.80	-0.0044	/	Pass
			30	NV	-11.40	-0.0030	/	Pass
			40	NV	-11.80	-0.0031	/	Pass
			50	NV	-19.00	-0.0049	/	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-11.50	-0.0030	/	Pass
				HV	-6.70	-0.0017	/	Pass
			-30	NV	-8.60	-0.0022	/	Pass
			-20	NV	-11.30	-0.0029	/	Pass
			-10	NV	16.10	0.0042	/	Pass
			0	NV	-15.30	-0.0040	/	Pass
			10	NV	2.50	0.0007	/	Pass
			20	NV	5.50	0.0014	/	Pass
			30	NV	-11.40	-0.0030	/	Pass
			40	NV	-12.70	-0.0033	/	Pass
			50	NV	-15.10	-0.0039	/	Pass

2.3 30k_SISO_40MHz

2.3.1 Test Result

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	-4.80	-0.0013	/	Pass
				HV	3.20	0.0008	/	Pass
			-30	NV	4.70	0.0012	/	Pass
			-20	NV	-15.00	-0.0039	/	Pass
			-10	NV	9.70	0.0025	/	Pass
			0	NV	-1.60	-0.0004	/	Pass
			10	NV	2.00	0.0005	/	Pass
			20	NV	-2.10	-0.0005	/	Pass
			30	NV	7.40	0.0019	/	Pass
			40	NV	-10.70	-0.0028	/	Pass
			50	NV	-4.90	-0.0013	/	Pass



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DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	-3.70	-0.0010	/	Pass
				HV	-14.70	-0.0038	/	Pass
			-30	NV	-11.10	-0.0029	/	Pass
				NV	-8.40	-0.0022	/	Pass
			-10	NV	-10.30	-0.0027	/	Pass
				0	NV	-11.80	-0.0031	/
			10	NV	-8.60	-0.0022	/	Pass
				20	NV	-3.40	-0.0009	/
			30	NV	-4.80	-0.0013	/	Pass
				40	NV	-14.40	-0.0038	/
50	NV	-12.90	-0.0034	/	Pass			
	20	LV	3.40	0.0009	/	Pass		
-30		HV	-9.50	-0.0025	/	Pass		
	-20	NV	-4.70	-0.0012	/	Pass		
-10		NV	-3.50	-0.0009	/	Pass		
	0	NV	-11.30	-0.0029	/	Pass		
10		NV	-4.30	-0.0011	/	Pass		
	20	NV	2.00	0.0005	/	Pass		
30		NV	-6.90	-0.0018	/	Pass		
	40	NV	-16.50	-0.0043	/	Pass		
50		NV	-9.90	-0.0026	/	Pass		
	20	LV	5.80	0.0015	/	Pass		
-30		HV	-7.90	-0.0021	/	Pass		
	-20	NV	7.20	0.0019	/	Pass		
-10		NV	-6.20	-0.0016	/	Pass		
	0	NV	-12.10	-0.0032	/	Pass		
10		NV	7.70	0.0020	/	Pass		
	20	NV	-1.90	-0.0005	/	Pass		
30		NV	-12.90	-0.0034	/	Pass		
	40	NV	-7.50	-0.0020	/	Pass		
50		NV	7.90	0.0021	/	Pass		
	20	LV	-11.80	-0.0031	/	Pass		
-30		HV	-10.60	-0.0028	/	Pass		
	-20	NV	-14.70	-0.0038	/	Pass		
-10		HV	6.80	0.0018	/	Pass		
	0	NV	-2.70	-0.0007	/	Pass		
10		NV	-10.50	-0.0027	/	Pass		
	20	NV	-3.70	-0.0010	/	Pass		
30		NV	-7.30	-0.0019	/	Pass		
	40	NV	-4.90	-0.0013	/	Pass		
50		NV	-13.70	-0.0036	/	Pass		
	20	NV	-5.80	-0.0015	/	Pass		
-30		NV	-8.00	-0.0021	/	Pass		
	-20	NV	-11.90	-0.0031	/	Pass		
20		LV	-14.90	-0.0039	/	Pass		
	-30	HV	-7.70	-0.0020	/	Pass		
-20		NV	-5.00	-0.0013	/	Pass		
	-10	NV	-16.50	-0.0043	/	Pass		



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			-10	NV	-17.90	-0.0047	/	Pass			
			0	NV	-5.40	-0.0014	/	Pass			
			10	NV	-17.10	-0.0045	/	Pass			
			20	NV	-9.60	-0.0025	/	Pass			
			30	NV	-12.10	-0.0032	/	Pass			
			40	NV	-17.40	-0.0045	/	Pass			
			50	NV	-10.90	-0.0028	/	Pass			
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-9.10	-0.0024	/	Pass			
				HV	-12.40	-0.0032	/	Pass			
						-30	NV	-10.50	-0.0027	/	Pass
						-20	NV	-13.40	-0.0035	/	Pass
						-10	NV	-12.50	-0.0033	/	Pass
						0	NV	-8.30	-0.0022	/	Pass
						10	NV	-9.40	-0.0024	/	Pass
						20	NV	-3.80	-0.0010	/	Pass
						30	NV	-10.10	-0.0026	/	Pass
						40	NV	-5.90	-0.0015	/	Pass
			50	NV	-6.60	-0.0017	/	Pass			
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-6.80	-0.0018	/	Pass			
				HV	-4.00	-0.0010	/	Pass			
						-30	NV	-3.70	-0.0010	/	Pass
						-20	NV	-12.20	-0.0032	/	Pass
						-10	NV	-7.20	-0.0019	/	Pass
						0	NV	-15.50	-0.0040	/	Pass
						10	NV	-13.50	-0.0035	/	Pass
						20	NV	-13.30	-0.0035	/	Pass
						30	NV	-10.70	-0.0028	/	Pass
						40	NV	-7.60	-0.0020	/	Pass
			50	NV	-5.50	-0.0014	/	Pass			
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-7.10	-0.0018	/	Pass			
				HV	0.70	0.0002	/	Pass			
						-30	NV	-20.50	-0.0053	/	Pass
						-20	NV	-17.80	-0.0046	/	Pass
						-10	NV	-20.10	-0.0052	/	Pass
						0	NV	-20.50	-0.0053	/	Pass
						10	NV	7.40	0.0019	/	Pass
						20	NV	-8.20	-0.0021	/	Pass
						30	NV	3.60	0.0009	/	Pass
						40	NV	-11.60	-0.0030	/	Pass
			50	NV	-13.40	-0.0035	/	Pass			

2.4 30k_SISO_60MHz

2.4.1 Test Result

5G NR n77a SCS=30kHz SISO 60MHz



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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	3.90	0.0010	/	Pass
				HV	5.60	0.0015	/	Pass
			-30	NV	-7.60	-0.0020	/	Pass
				NV	7.00	0.0018	/	Pass
			-10	NV	2.00	0.0005	/	Pass
				0	NV	8.70	0.0023	/
			10	NV	16.80	0.0044	/	Pass
			20	NV	-7.30	-0.0019	/	Pass
			30	NV	4.40	0.0011	/	Pass
			40	NV	-25.40	-0.0066	/	Pass
50	NV	9.00	0.0023	/	Pass			
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	-3.50	-0.0009	/	Pass
				HV	-4.30	-0.0011	/	Pass
			-30	NV	-10.60	-0.0028	/	Pass
				NV	-5.30	-0.0014	/	Pass
			-10	NV	2.40	0.0006	/	Pass
				0	NV	-7.10	-0.0018	/
			10	NV	-9.70	-0.0025	/	Pass
			20	NV	-8.20	-0.0021	/	Pass
			30	NV	-3.00	-0.0008	/	Pass
			40	NV	-3.80	-0.0010	/	Pass
50	NV	-11.90	-0.0031	/	Pass			
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	-6.00	-0.0016	/	Pass
				HV	-4.50	-0.0012	/	Pass
			-30	NV	-14.50	-0.0038	/	Pass
				NV	-15.10	-0.0039	/	Pass
			-10	NV	2.50	0.0007	/	Pass
				0	NV	-6.20	-0.0016	/
			10	NV	-10.60	-0.0028	/	Pass
			20	NV	-7.90	-0.0021	/	Pass
			30	NV	-7.50	-0.0020	/	Pass
			40	NV	-7.50	-0.0020	/	Pass
50	NV	-6.10	-0.0016	/	Pass			
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	-9.20	-0.0024	/	Pass
				HV	-3.40	-0.0009	/	Pass
			-30	NV	-12.30	-0.0032	/	Pass
				NV	-2.60	-0.0007	/	Pass
			-10	NV	-13.90	-0.0036	/	Pass
				0	NV	-4.40	-0.0011	/
			10	NV	7.70	0.0020	/	Pass
			20	NV	-14.80	-0.0039	/	Pass
			30	NV	3.80	0.0010	/	Pass
			40	NV	4.90	0.0013	/	Pass
50	NV	-3.80	-0.0010	/	Pass			
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	-24.10	-0.0063	/	Pass
				HV	-19.50	-0.0051	/	Pass



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			-30	NV	-7.20	-0.0019	/	Pass
			-20	NV	-5.80	-0.0015	/	Pass
			-10	NV	3.60	0.0009	/	Pass
			0	NV	-19.20	-0.0050	/	Pass
			10	NV	-7.10	-0.0018	/	Pass
			20	NV	-14.20	-0.0037	/	Pass
			30	NV	-12.40	-0.0032	/	Pass
			40	NV	6.20	0.0016	/	Pass
			50	NV	-16.70	-0.0043	/	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	-11.00	-0.0029	/	Pass
				HV	-3.10	-0.0008	/	Pass
			-30	NV	-6.60	-0.0017	/	Pass
			-20	NV	-1.80	-0.0005	/	Pass
			-10	NV	-18.60	-0.0048	/	Pass
			0	NV	-2.70	-0.0007	/	Pass
			10	NV	-4.90	-0.0013	/	Pass
			20	NV	-6.30	-0.0016	/	Pass
			30	NV	-5.40	-0.0014	/	Pass
			40	NV	-1.20	-0.0003	/	Pass
50	NV	-11.30	-0.0029	/	Pass			
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-17.80	-0.0046	/	Pass
				HV	-15.10	-0.0039	/	Pass
			-30	NV	-7.80	-0.0020	/	Pass
			-20	NV	-1.00	-0.0003	/	Pass
			-10	NV	-10.70	-0.0028	/	Pass
			0	NV	1.00	0.0003	/	Pass
			10	NV	9.70	0.0025	/	Pass
			20	NV	-12.90	-0.0034	/	Pass
			30	NV	-9.90	-0.0026	/	Pass
			40	NV	-7.70	-0.0020	/	Pass
50	NV	-4.60	-0.0012	/	Pass			
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-10.50	-0.0027	/	Pass
				HV	-13.10	-0.0034	/	Pass
			-30	NV	-7.20	-0.0019	/	Pass
			-20	NV	-1.70	-0.0004	/	Pass
			-10	NV	-14.60	-0.0038	/	Pass
			0	NV	-9.50	-0.0025	/	Pass
			10	NV	-4.30	-0.0011	/	Pass
			20	NV	-12.60	-0.0033	/	Pass
			30	NV	7.60	0.0020	/	Pass
			40	NV	6.30	0.0016	/	Pass
50	NV	-2.40	-0.0006	/	Pass			
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-3.80	-0.0010	/	Pass
				HV	-20.20	-0.0053	/	Pass
			-30	NV	1.50	0.0004	/	Pass
			-20	NV	6.60	0.0017	/	Pass
			-10	NV	-4.30	-0.0011	/	Pass
			0	NV	5.00	0.0013	/	Pass



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			10	NV	-17.10	-0.0045	/	Pass
			20	NV	-7.00	-0.0018	/	Pass
			30	NV	-7.20	-0.0019	/	Pass
			40	NV	-9.60	-0.0025	/	Pass
			50	NV	-12.10	-0.0032	/	Pass

2.5 30k_SISO_80MHz

2.5.1 Test Result

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	-10.60	-0.0028	/	Pass
				HV	-12.60	-0.0033	/	Pass
			-30	NV	-9.40	-0.0024	/	Pass
				NV	-12.80	-0.0033	/	Pass
			-10	NV	-11.00	-0.0029	/	Pass
				NV	-6.90	-0.0018	/	Pass
			10	NV	-13.50	-0.0035	/	Pass
				NV	-13.00	-0.0034	/	Pass
			30	NV	7.30	0.0019	/	Pass
				NV	-17.00	-0.0044	/	Pass
50	NV	-20.80	-0.0054	/	Pass			
	NV	-20.80	-0.0054	/	Pass			
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	-10.20	-0.0027	/	Pass
				HV	-11.70	-0.0030	/	Pass
			-30	NV	-8.50	-0.0022	/	Pass
				NV	-7.50	-0.0020	/	Pass
			-10	NV	-9.80	-0.0026	/	Pass
				NV	-5.20	-0.0014	/	Pass
			10	NV	3.20	0.0008	/	Pass
				NV	-3.00	-0.0008	/	Pass
			30	NV	-12.00	-0.0031	/	Pass
				NV	-5.90	-0.0015	/	Pass
50	NV	-11.40	-0.0030	/	Pass			
	NV	-11.40	-0.0030	/	Pass			
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	-10.60	-0.0028	/	Pass
				HV	-26.90	-0.0070	/	Pass
			-30	NV	-6.90	-0.0018	/	Pass
				NV	-11.30	-0.0029	/	Pass
			-10	NV	-6.30	-0.0016	/	Pass
				NV	-10.00	-0.0026	/	Pass
			10	NV	-18.00	-0.0047	/	Pass
				NV	-9.60	-0.0025	/	Pass
			30	NV	-8.10	-0.0021	/	Pass
				NV	-11.70	-0.0030	/	Pass
50	NV	-8.50	-0.0022	/	Pass			
	NV	-8.50	-0.0022	/	Pass			



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DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	-10.70	-0.0028	/	Pass
				HV	-10.40	-0.0027	/	Pass
			-30	NV	-15.00	-0.0039	/	Pass
				NV	-7.40	-0.0019	/	Pass
			-10	NV	-4.70	-0.0012	/	Pass
				0	NV	-1.70	-0.0004	/
			10	NV	-10.90	-0.0028	/	Pass
			20	NV	1.60	0.0004	/	Pass
			30	NV	-3.90	-0.0010	/	Pass
40	NV	-9.20	-0.0024	/	Pass			
50	NV	-5.10	-0.0013	/	Pass			
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	-7.40	-0.0019	/	Pass
				HV	-2.70	-0.0007	/	Pass
			-30	NV	-7.20	-0.0019	/	Pass
				NV	-4.40	-0.0011	/	Pass
			-10	NV	12.40	0.0032	/	Pass
				0	NV	7.40	0.0019	/
			10	NV	-10.20	-0.0027	/	Pass
			20	NV	-4.10	-0.0011	/	Pass
			30	NV	-10.90	-0.0028	/	Pass
40	NV	-14.40	-0.0038	/	Pass			
50	NV	-19.20	-0.0050	/	Pass			
CP-OFDM QPSK	3840	Outer_Full	20	LV	-15.60	-0.0041	/	Pass
				HV	-7.10	-0.0018	/	Pass
			-30	NV	-17.80	-0.0046	/	Pass
				NV	-13.40	-0.0035	/	Pass
			-10	NV	-4.80	-0.0013	/	Pass
				0	NV	-17.00	-0.0044	/
			10	NV	-22.70	-0.0059	/	Pass
			20	NV	6.10	0.0016	/	Pass
			30	NV	-5.90	-0.0015	/	Pass
40	NV	-13.80	-0.0036	/	Pass			
50	NV	-5.40	-0.0014	/	Pass			
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-11.60	-0.0030	/	Pass
				HV	-11.30	-0.0029	/	Pass
			-30	NV	-13.90	-0.0036	/	Pass
				NV	-18.30	-0.0048	/	Pass
			-10	NV	-6.80	-0.0018	/	Pass
				0	NV	-11.70	-0.0030	/
			10	NV	-2.80	-0.0007	/	Pass
			20	NV	-21.60	-0.0056	/	Pass
			30	NV	-8.10	-0.0021	/	Pass
40	NV	-22.70	-0.0059	/	Pass			
50	NV	-8.90	-0.0023	/	Pass			
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-5.20	-0.0014	/	Pass
				HV	-16.50	-0.0043	/	Pass
			-30	NV	-10.20	-0.0027	/	Pass
				-20	NV	-16.60	-0.0043	/



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			-10	NV	-9.50	-0.0025	/	Pass
			0	NV	4.60	0.0012	/	Pass
			10	NV	-10.20	-0.0027	/	Pass
			20	NV	-19.40	-0.0051	/	Pass
			30	NV	-7.90	-0.0021	/	Pass
			40	NV	-17.80	-0.0046	/	Pass
			50	NV	-9.80	-0.0026	/	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-24.30	-0.0063	/	Pass
				HV	1.80	0.0005	/	Pass
			-30	NV	-12.30	-0.0032	/	Pass
			-20	NV	-14.70	-0.0038	/	Pass
			-10	NV	-8.80	-0.0023	/	Pass
			0	NV	-1.80	-0.0005	/	Pass
			10	NV	-11.10	-0.0029	/	Pass
			20	NV	-2.70	-0.0007	/	Pass
			30	NV	-19.30	-0.0050	/	Pass
			40	NV	-14.30	-0.0037	/	Pass
			50	NV	-17.00	-0.0044	/	Pass

2.6 30k_SISO_100MHz

2.6.1 Test Result

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	5.50	0.0014	/	Pass
				HV	-5.50	-0.0014	/	Pass
			-30	NV	-0.60	-0.0002	/	Pass
			-20	NV	-8.00	-0.0021	/	Pass
			-10	NV	7.30	0.0019	/	Pass
			0	NV	4.80	0.0013	/	Pass
			10	NV	-16.10	-0.0042	/	Pass
			20	NV	9.00	0.0023	/	Pass
			30	NV	-5.20	-0.0014	/	Pass
			40	NV	2.40	0.0006	/	Pass
			50	NV	-3.90	-0.0010	/	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	6.30	0.0016	/	Pass
				HV	-9.30	-0.0024	/	Pass
			-30	NV	7.40	0.0019	/	Pass
			-20	NV	-6.40	-0.0017	/	Pass
			-10	NV	1.80	0.0005	/	Pass
			0	NV	8.90	0.0023	/	Pass
			10	NV	7.40	0.0019	/	Pass
			20	NV	3.00	0.0008	/	Pass
			30	NV	1.60	0.0004	/	Pass



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DFT-s-OFDM 16 QAM	3840	Outer_Full	40	NV	-8.10	-0.0021	/	Pass			
			50	NV	-9.20	-0.0024	/	Pass			
			20	LV	-5.90	-0.0015	/	Pass			
				HV	-3.30	-0.0009	/	Pass			
			-30	NV	13.80	0.0036	/	Pass			
			-20	NV	5.90	0.0015	/	Pass			
			-10	NV	12.30	0.0032	/	Pass			
			0	NV	-3.00	-0.0008	/	Pass			
			10	NV	2.90	0.0008	/	Pass			
			20	NV	4.50	0.0012	/	Pass			
			30	NV	3.40	0.0009	/	Pass			
			40	NV	-3.70	-0.0010	/	Pass			
			50	NV	9.80	0.0026	/	Pass			
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	3.40	0.0009	/	Pass			
				HV	-5.20	-0.0014	/	Pass			
			-30	NV	2.20	0.0006	/	Pass			
			-20	NV	-8.60	-0.0022	/	Pass			
			-10	NV	-7.90	-0.0021	/	Pass			
			0	NV	1.30	0.0003	/	Pass			
			10	NV	-5.60	-0.0015	/	Pass			
			20	NV	4.00	0.0010	/	Pass			
			30	NV	-2.60	-0.0007	/	Pass			
			40	NV	-12.40	-0.0032	/	Pass			
			50	NV	7.20	0.0019	/	Pass			
			DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	-5.20	-0.0014	/	Pass
							HV	-2.50	-0.0007	/	Pass
-30	NV	-7.30				-0.0019	/	Pass			
-20	NV	-4.50				-0.0012	/	Pass			
-10	NV	-4.90				-0.0013	/	Pass			
0	NV	5.80				0.0015	/	Pass			
10	NV	6.80				0.0018	/	Pass			
20	NV	4.80				0.0013	/	Pass			
30	NV	6.70				0.0017	/	Pass			
40	NV	-5.50				-0.0014	/	Pass			
50	NV	-16.80				-0.0044	/	Pass			
CP-OFDM QPSK	3840	Outer_Full				20	LV	-2.60	-0.0007	/	Pass
							HV	-5.20	-0.0014	/	Pass
			-30	NV	-12.00	-0.0031	/	Pass			
			-20	NV	-11.80	-0.0031	/	Pass			
			-10	NV	-4.30	-0.0011	/	Pass			
			0	NV	13.00	0.0034	/	Pass			
			10	NV	4.10	0.0011	/	Pass			
			20	NV	1.90	0.0005	/	Pass			
			30	NV	-13.70	-0.0036	/	Pass			
			40	NV	-11.10	-0.0029	/	Pass			
			50	NV	3.20	0.0008	/	Pass			
			CP-OFDM 16 QAM	3840	Outer_Full	20	LV	-15.90	-0.0041	/	Pass
							HV	-18.70	-0.0049	/	Pass



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			-30	NV	-15.20	-0.0040	/	Pass
			-20	NV	-12.20	-0.0032	/	Pass
			-10	NV	-8.20	-0.0021	/	Pass
			0	NV	2.30	0.0006	/	Pass
			10	NV	-5.60	-0.0015	/	Pass
			20	NV	-12.60	-0.0033	/	Pass
			30	NV	6.10	0.0016	/	Pass
			40	NV	2.40	0.0006	/	Pass
			50	NV	-5.80	-0.0015	/	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	1.00	0.0003	/	Pass
				HV	7.90	0.0021	/	Pass
			-30	NV	-2.30	-0.0006	/	Pass
				NV	-11.20	-0.0029	/	Pass
			-10	NV	-3.30	-0.0009	/	Pass
				NV	-5.80	-0.0015	/	Pass
			10	NV	-14.20	-0.0037	/	Pass
				NV	2.90	0.0008	/	Pass
			30	NV	-8.10	-0.0021	/	Pass
				NV	-9.10	-0.0024	/	Pass
50	NV	-14.40	-0.0038	/	Pass			
	20	LV	6.20	0.0016	/	Pass		
HV		-5.60	-0.0015	/	Pass			
CP-OFDM 256 QAM	3840	Outer_Full	-30	NV	-6.20	-0.0016	/	Pass
				NV	-3.40	-0.0009	/	Pass
			-10	NV	-12.60	-0.0033	/	Pass
				NV	-6.30	-0.0016	/	Pass
			0	NV	-4.40	-0.0011	/	Pass
				NV	-9.80	-0.0026	/	Pass
			10	NV	-22.30	-0.0058	/	Pass
				NV	-10.30	-0.0027	/	Pass
			40	NV	4.40	0.0011	/	Pass
				NV				



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3. 99% & 26dB Bandwidth

3.1 30k_SISO_20MHz_NTNV

3.1.1 Test Result

5G NR n77a SCS=30kHz SISO 20MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3710.01	Outer_Full	18.07	19.12	/	Pass
	3840	Outer_Full	18.07	19.18	/	Pass
	3969.99	Outer_Full	18.05	19.28	/	Pass
DFT-s-OFDM QPSK	3710.01	Outer_Full	18.26	19.43	/	Pass
	3840	Outer_Full	18.07	19.27	/	Pass
	3969.99	Outer_Full	18.19	19.36	/	Pass
DFT-s-OFDM 16 QAM	3710.01	Outer_Full	18.03	19.39	/	Pass
	3840	Outer_Full	18.02	19.16	/	Pass
	3969.99	Outer_Full	18.20	19.55	/	Pass
DFT-s-OFDM 64 QAM	3710.01	Outer_Full	18.09	19.24	/	Pass
	3840	Outer_Full	18.13	19.35	/	Pass
	3969.99	Outer_Full	18.11	19.62	/	Pass
DFT-s-OFDM 256 QAM	3710.01	Outer_Full	18.11	19.18	/	Pass
	3840	Outer_Full	18.16	19.21	/	Pass
	3969.99	Outer_Full	18.06	19.26	/	Pass
CP-OFDM QPSK	3710.01	Outer_Full	18.36	19.63	/	Pass
	3840	Outer_Full	18.39	19.72	/	Pass
	3969.99	Outer_Full	18.42	19.64	/	Pass
CP-OFDM 16 QAM	3710.01	Outer_Full	18.37	19.90	/	Pass
	3840	Outer_Full	18.44	20.41	/	Pass
	3969.99	Outer_Full	18.39	19.76	/	Pass
CP-OFDM 64 QAM	3710.01	Outer_Full	18.21	19.61	/	Pass
	3840	Outer_Full	18.44	19.86	/	Pass
	3969.99	Outer_Full	18.37	19.73	/	Pass
CP-OFDM 256 QAM	3710.01	Outer_Full	18.45	19.73	/	Pass
	3840	Outer_Full	18.34	19.64	/	Pass
	3969.99	Outer_Full	18.47	19.61	/	Pass



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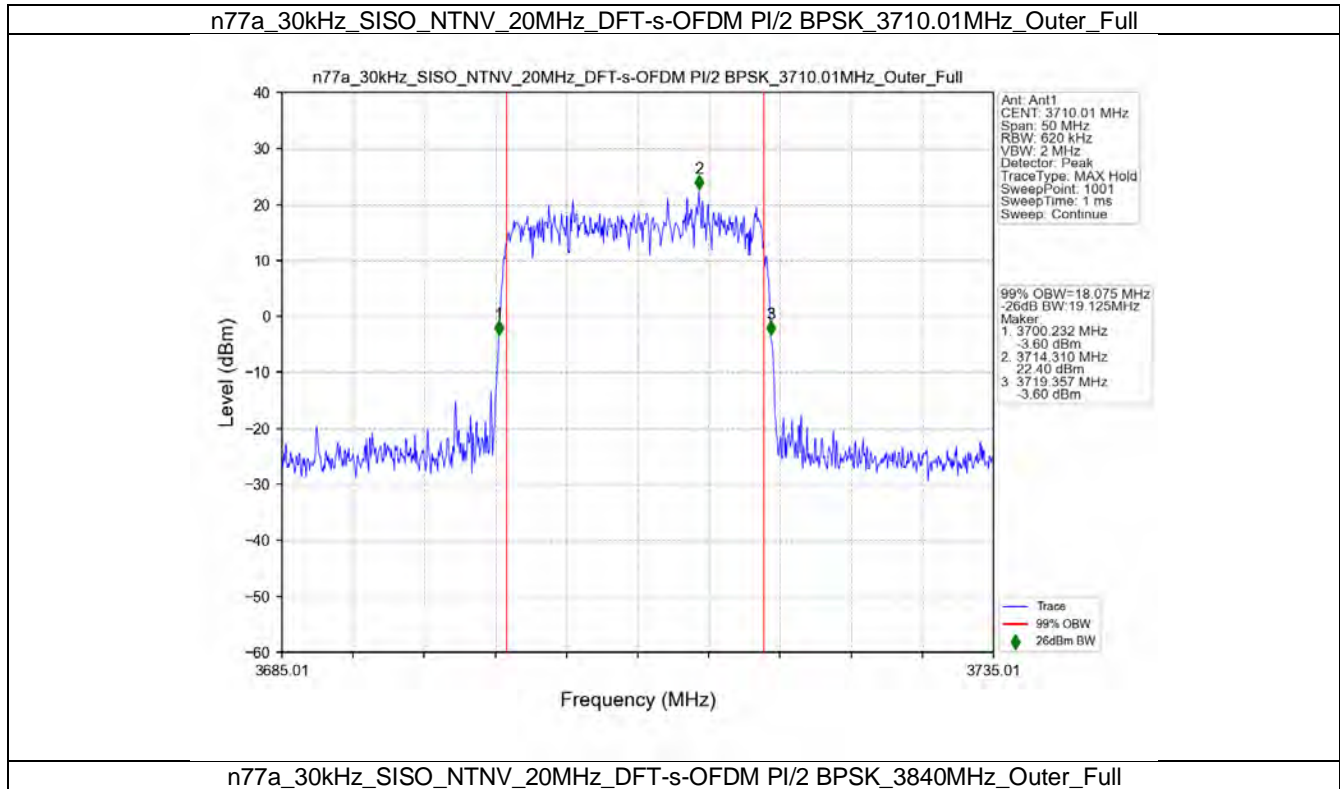
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3.1.2 Test Graph



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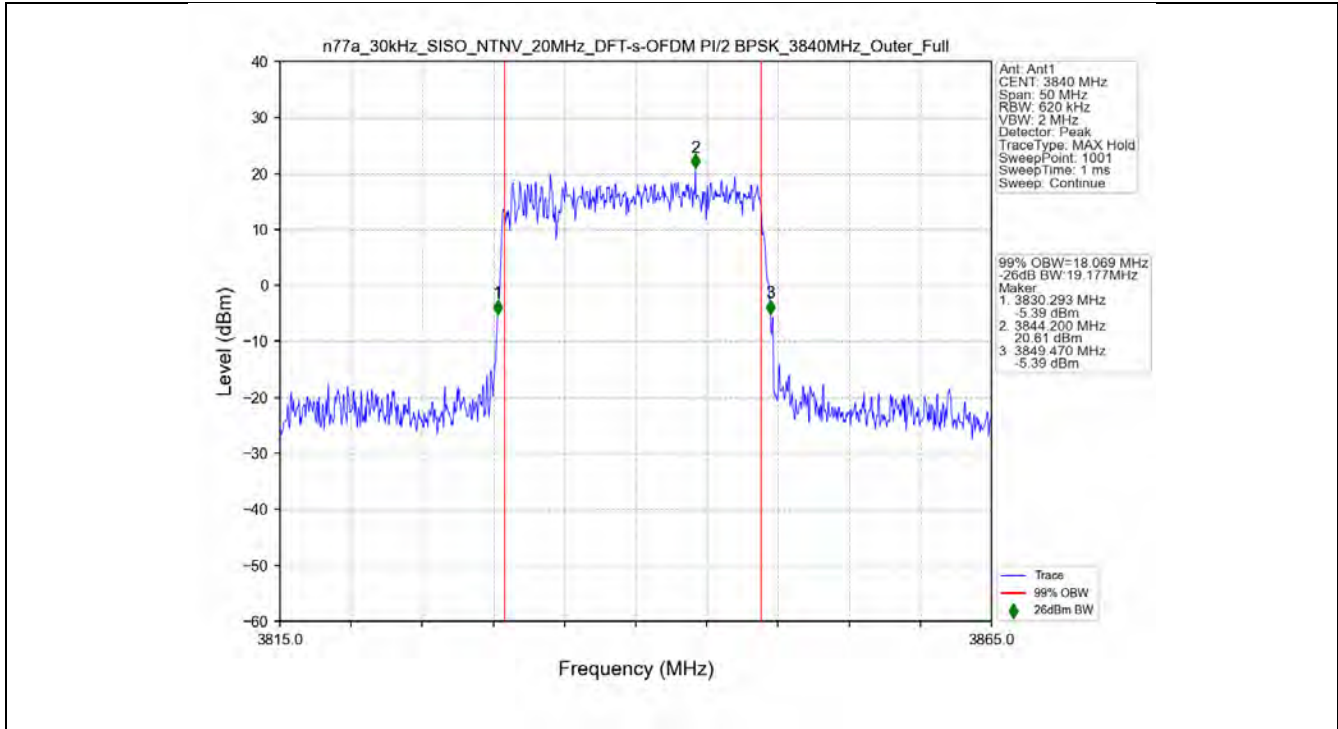


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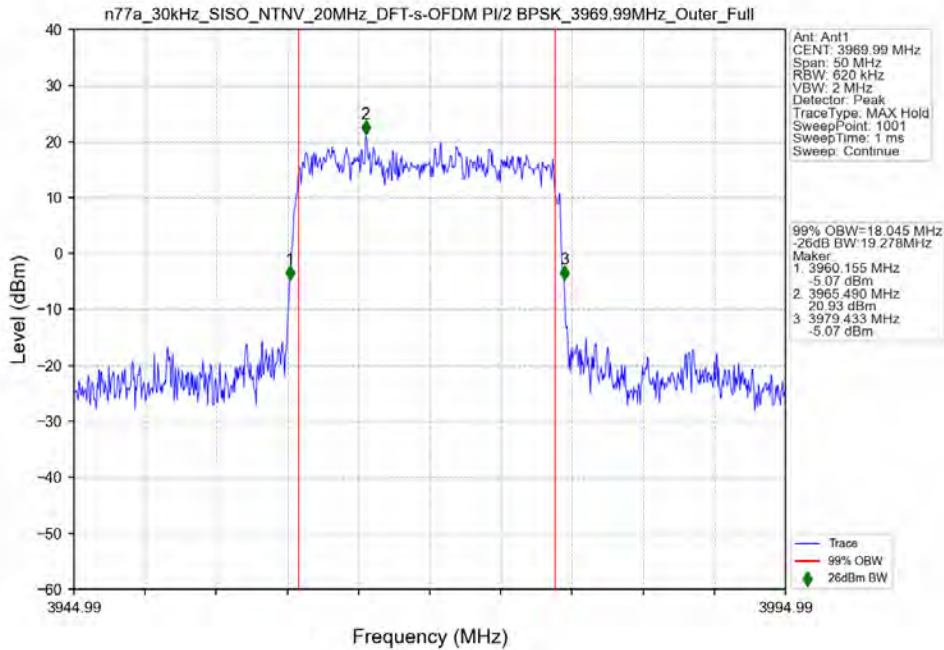
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n77a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3969.99MHz_Outer_Full



n77a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3710.01MHz_Outer_Full



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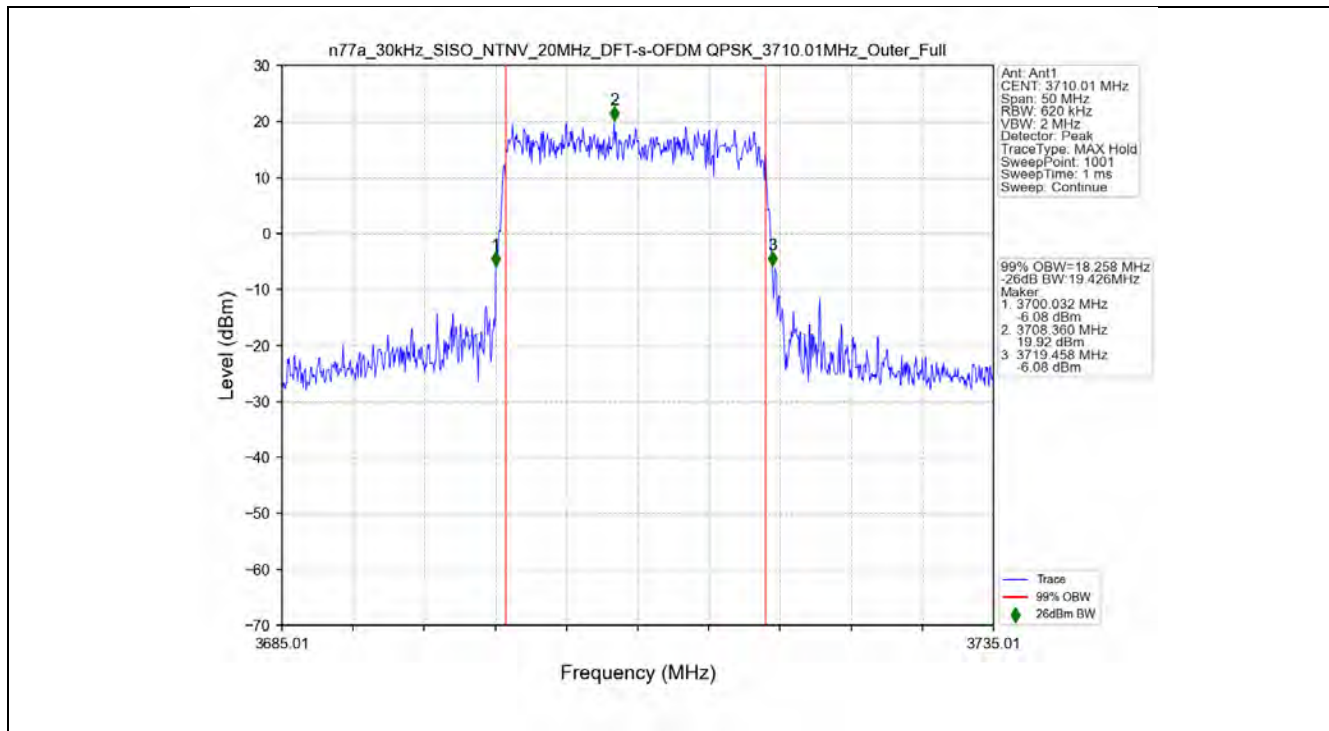
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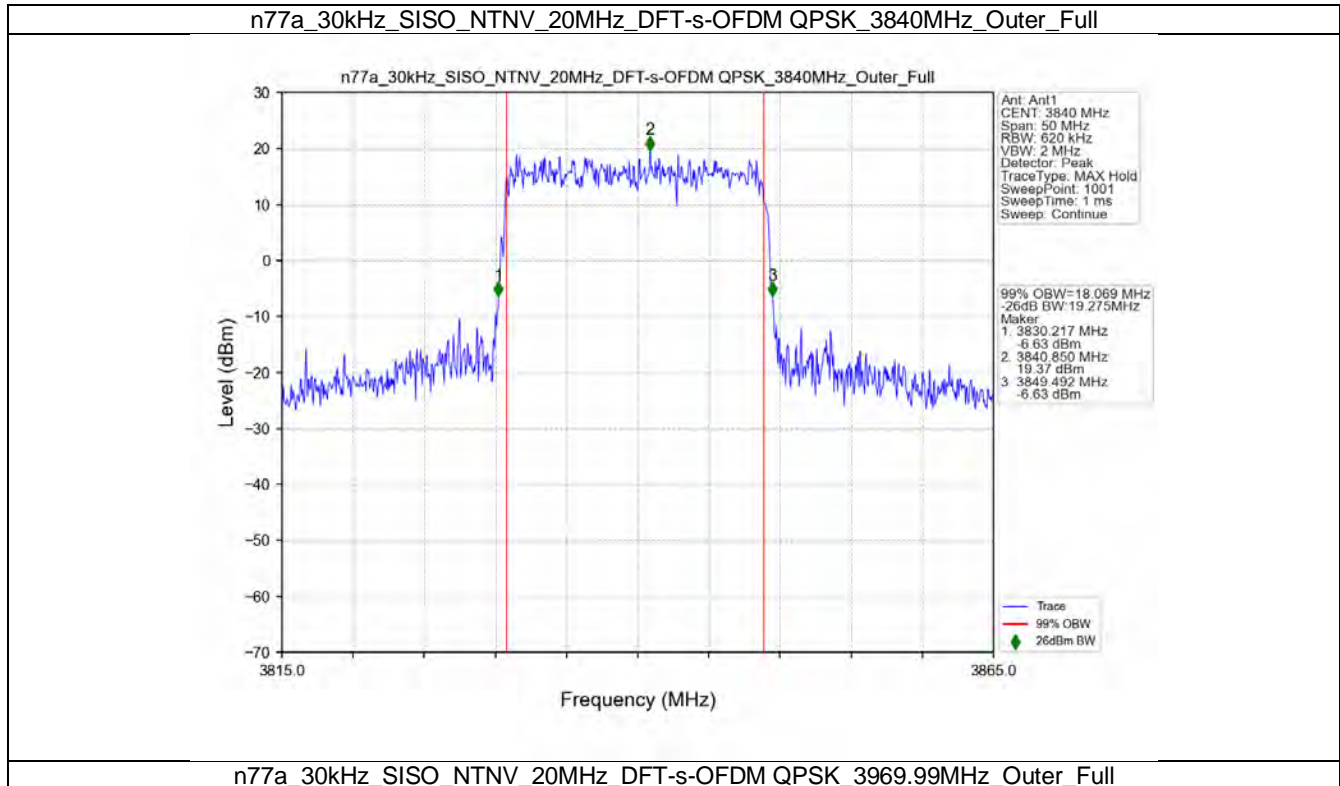


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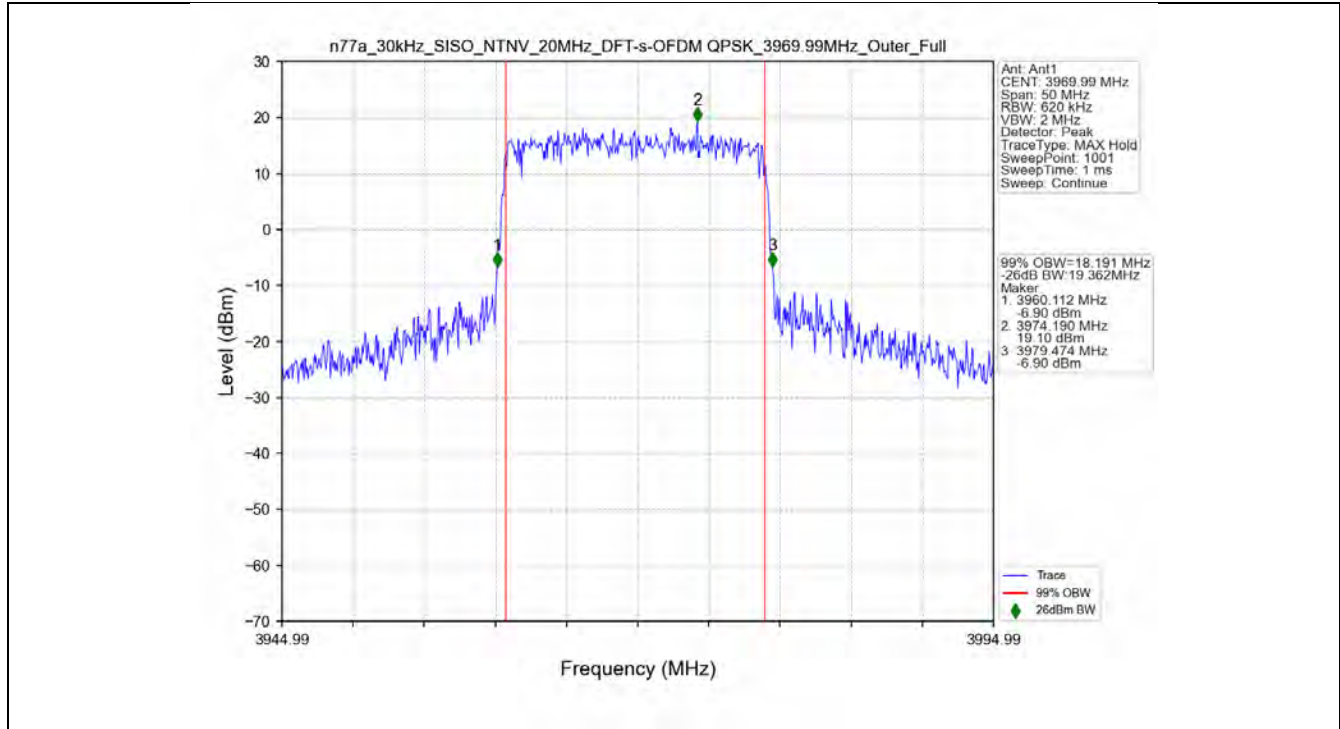


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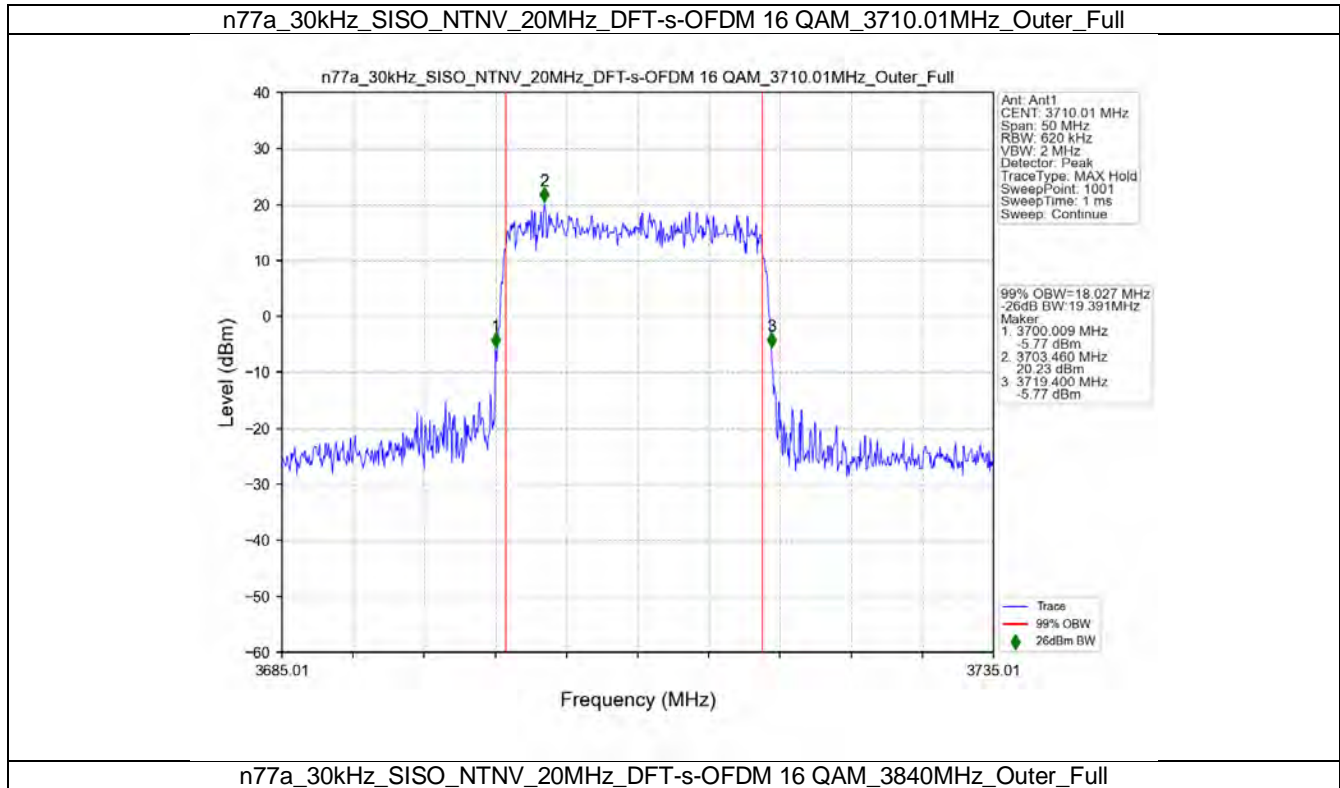


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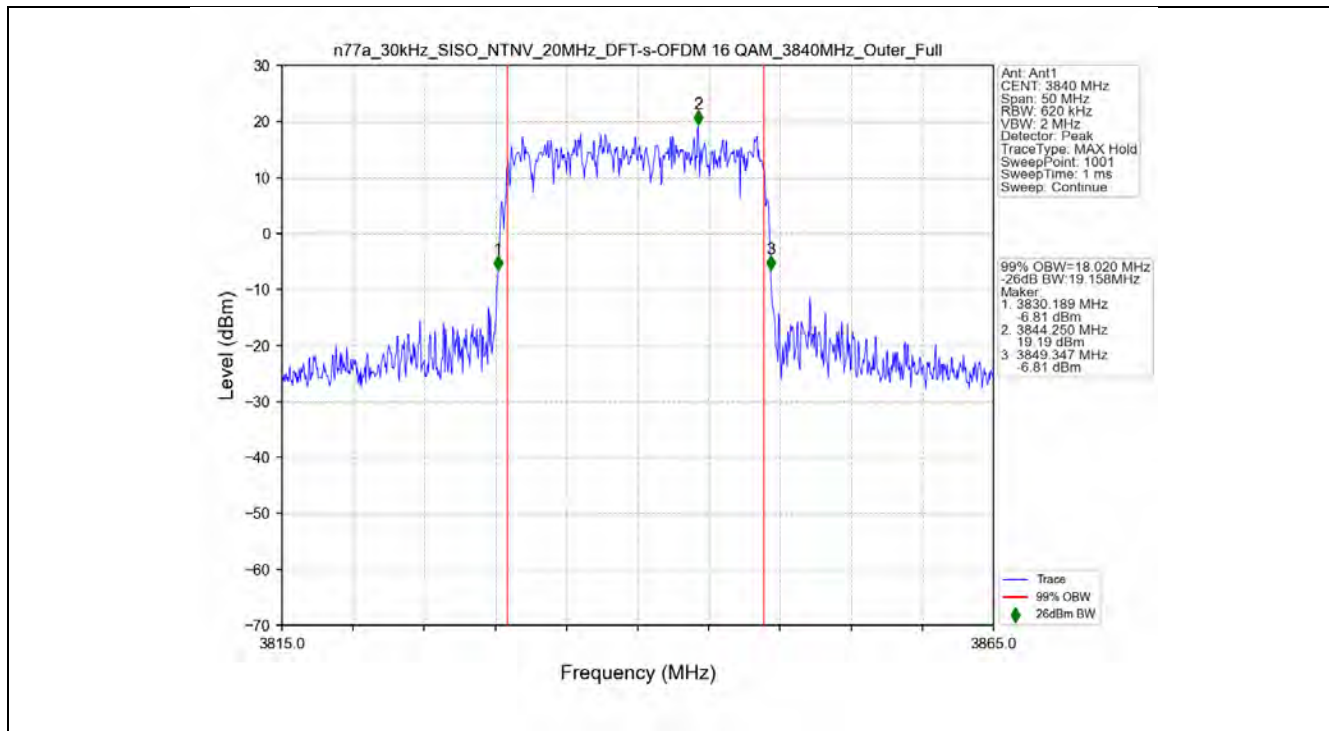
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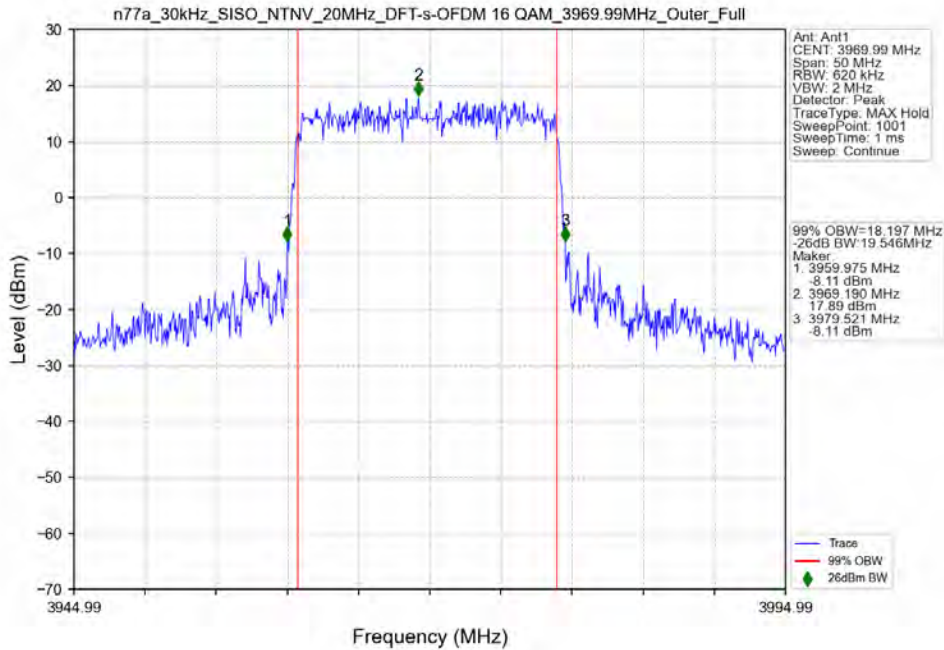
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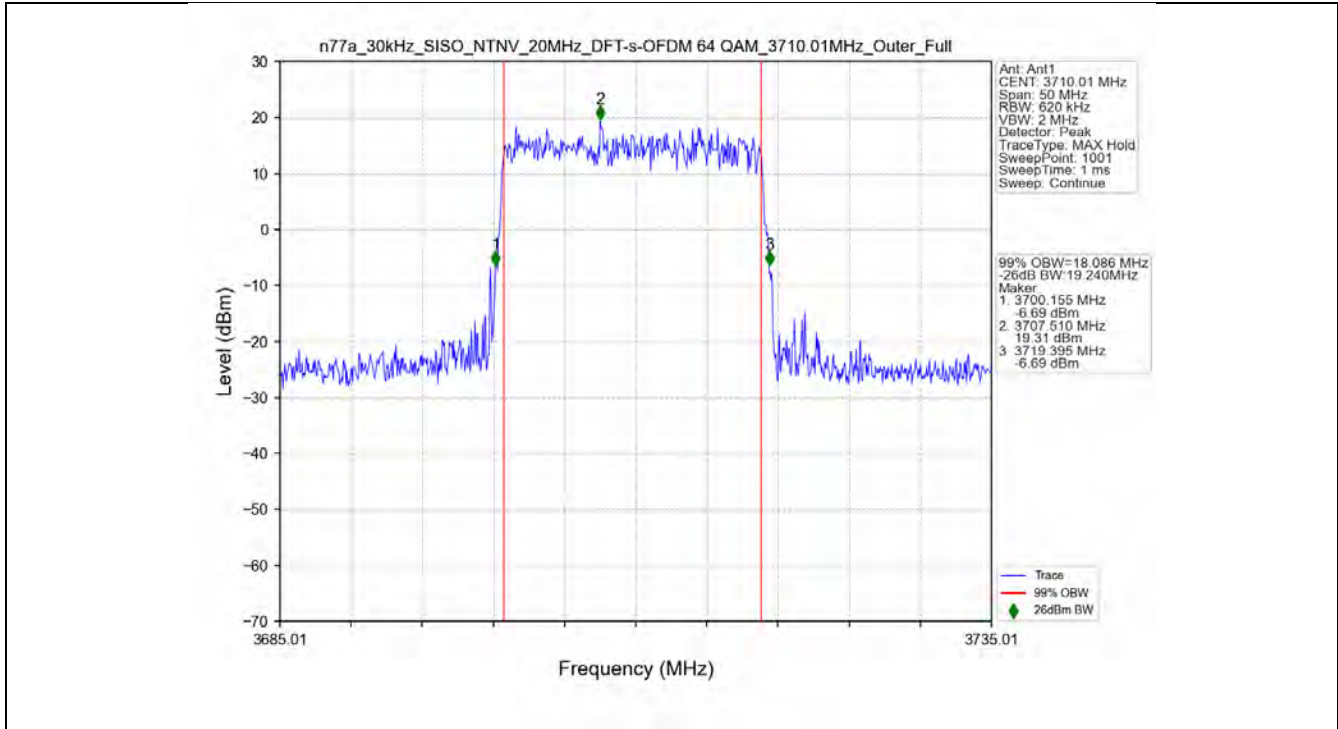


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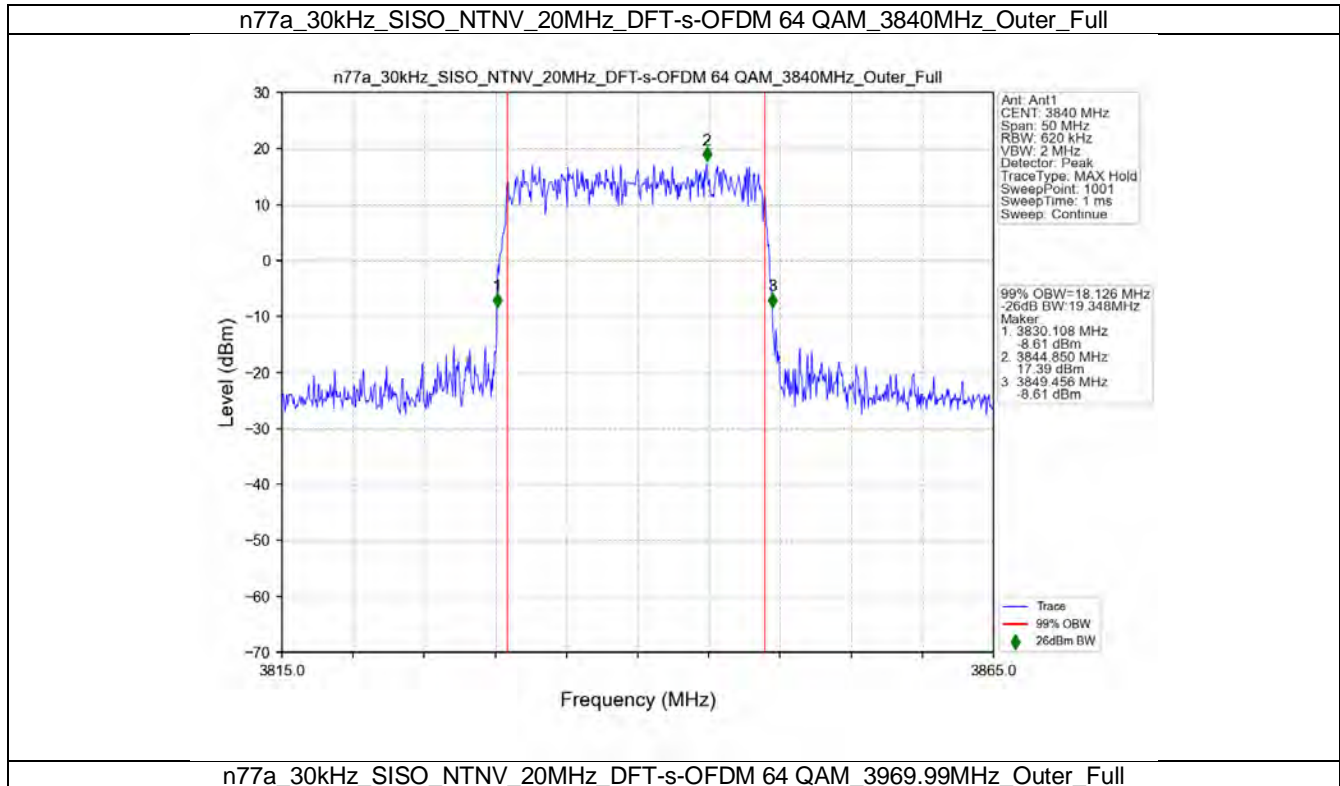


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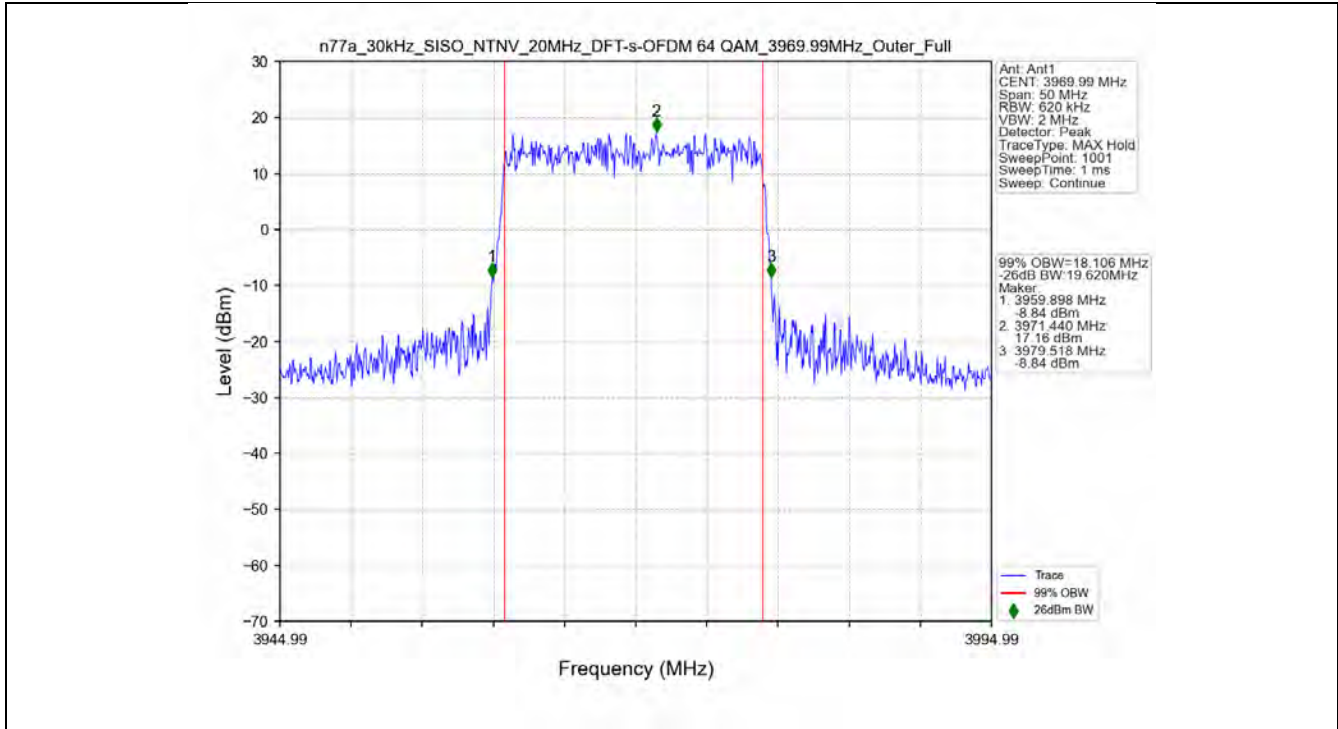


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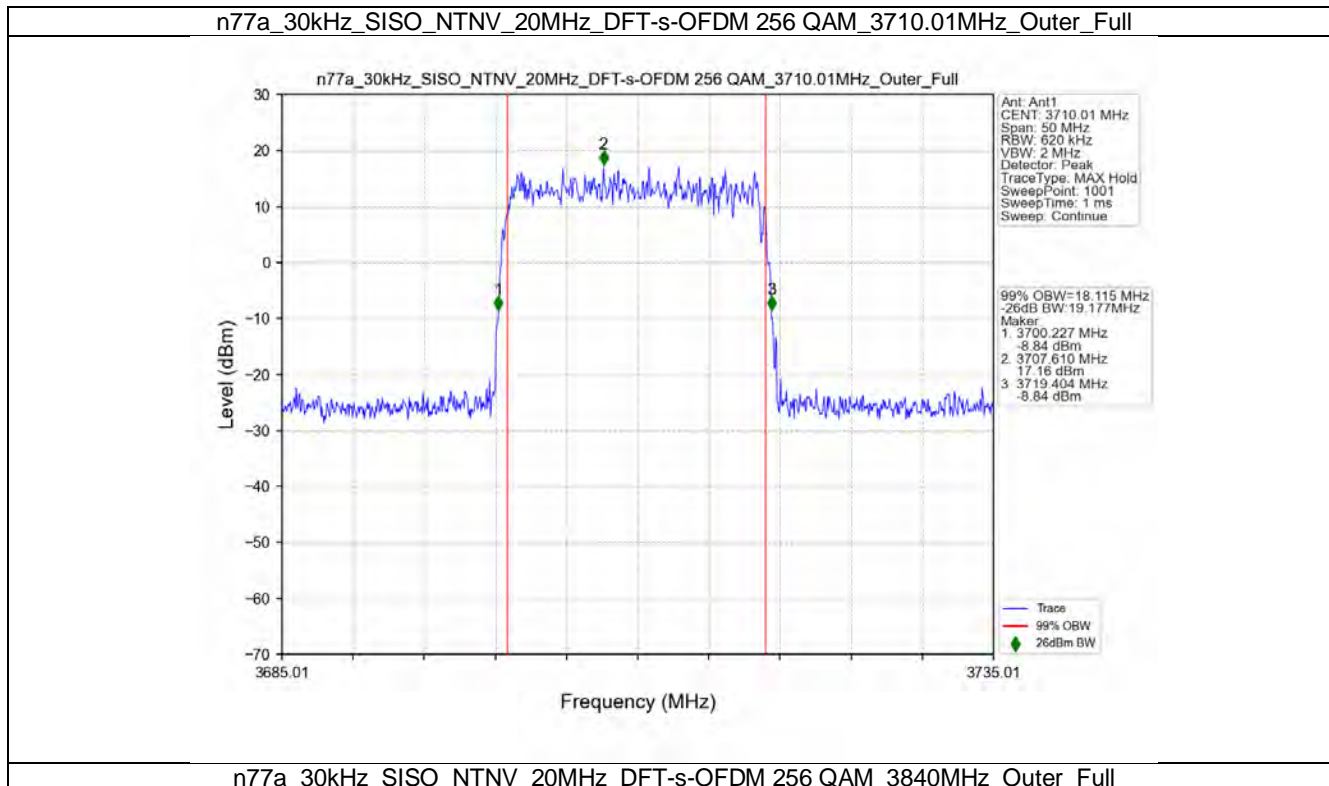
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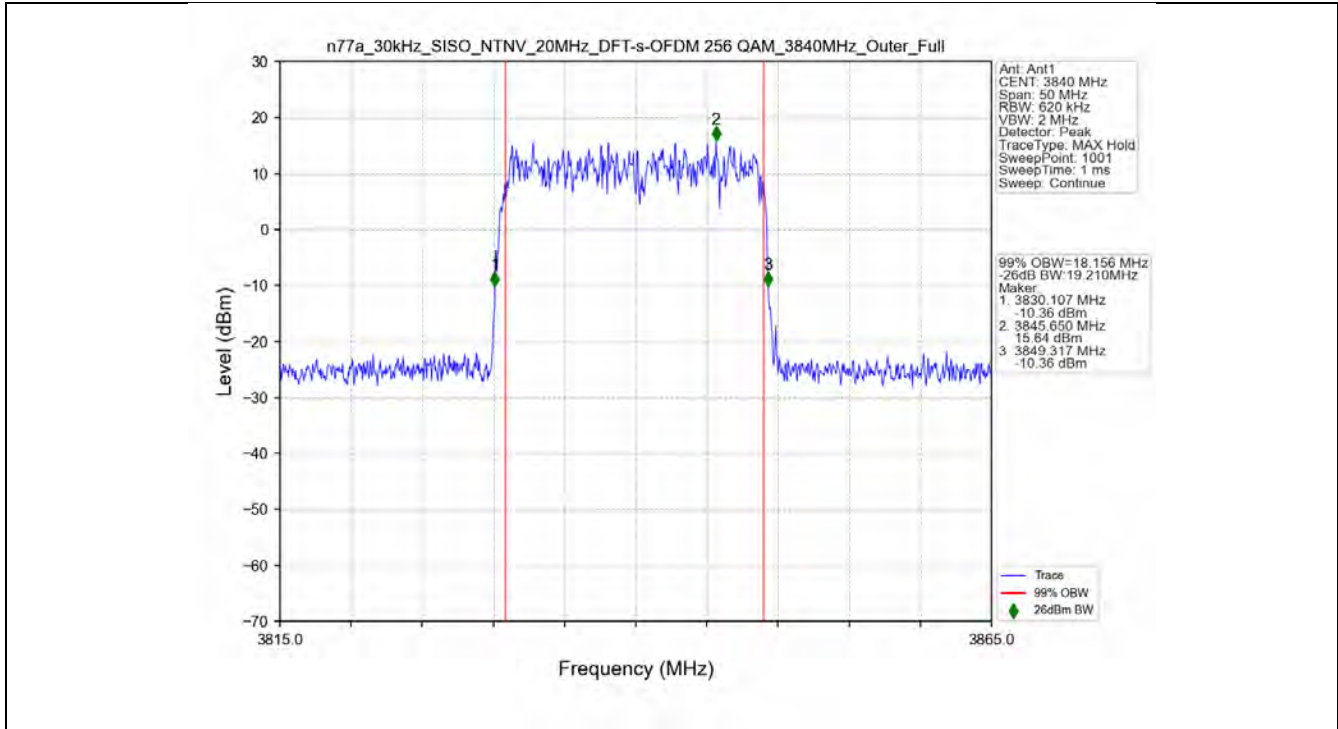


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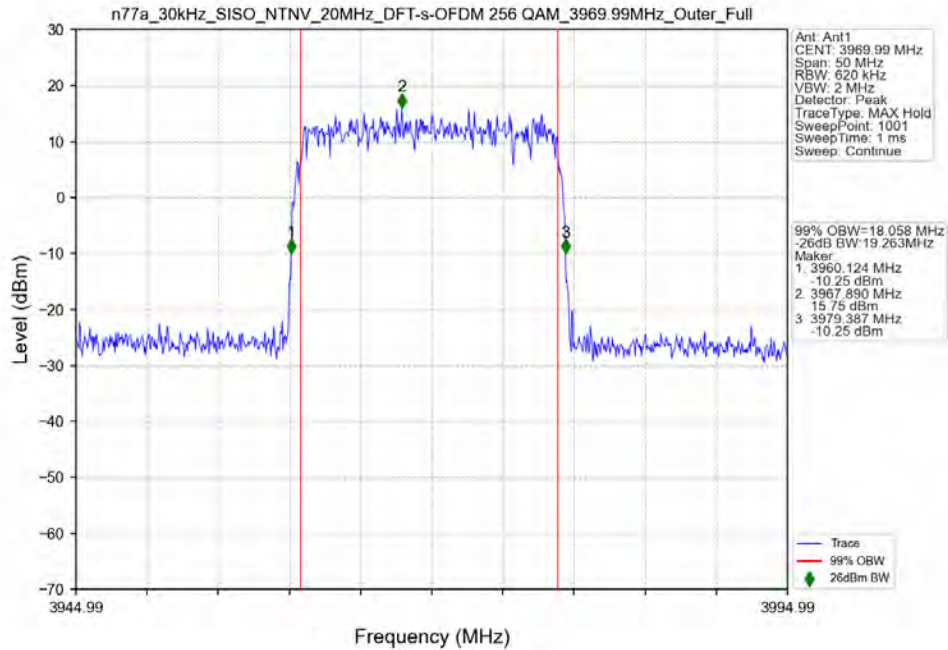
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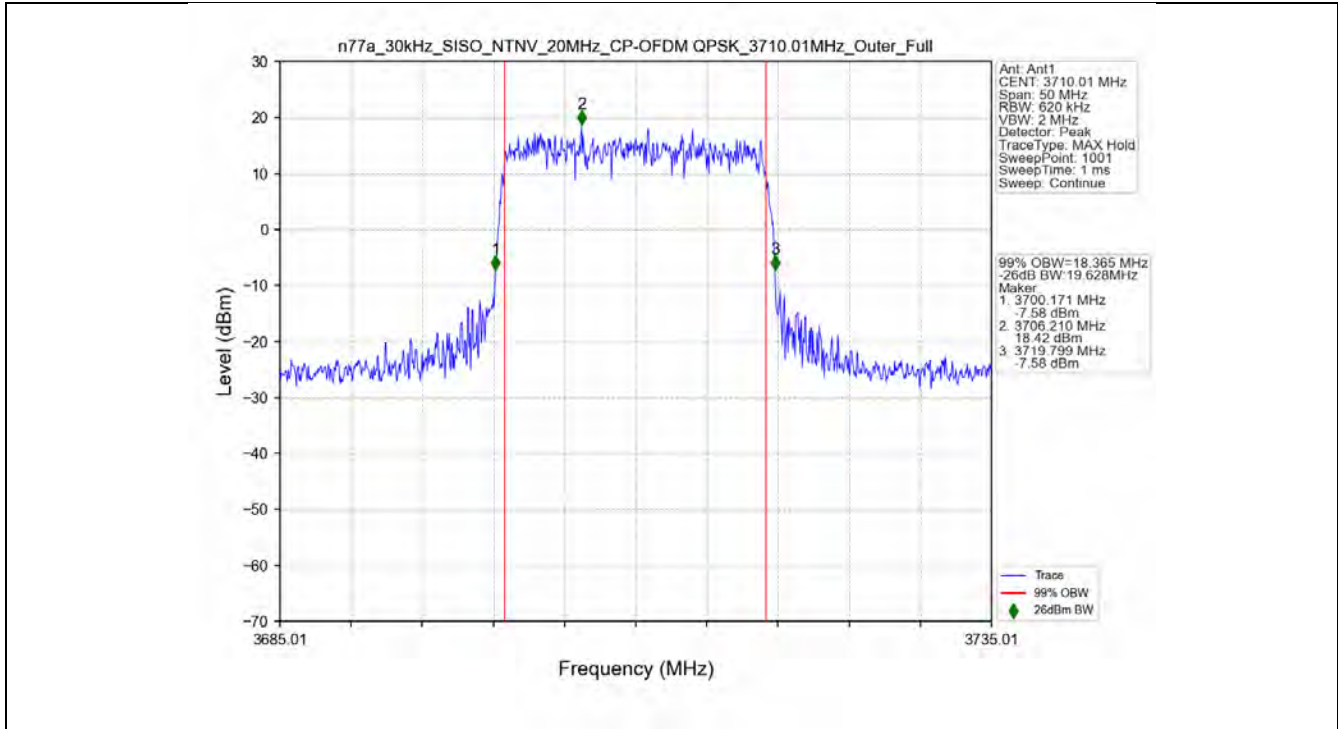


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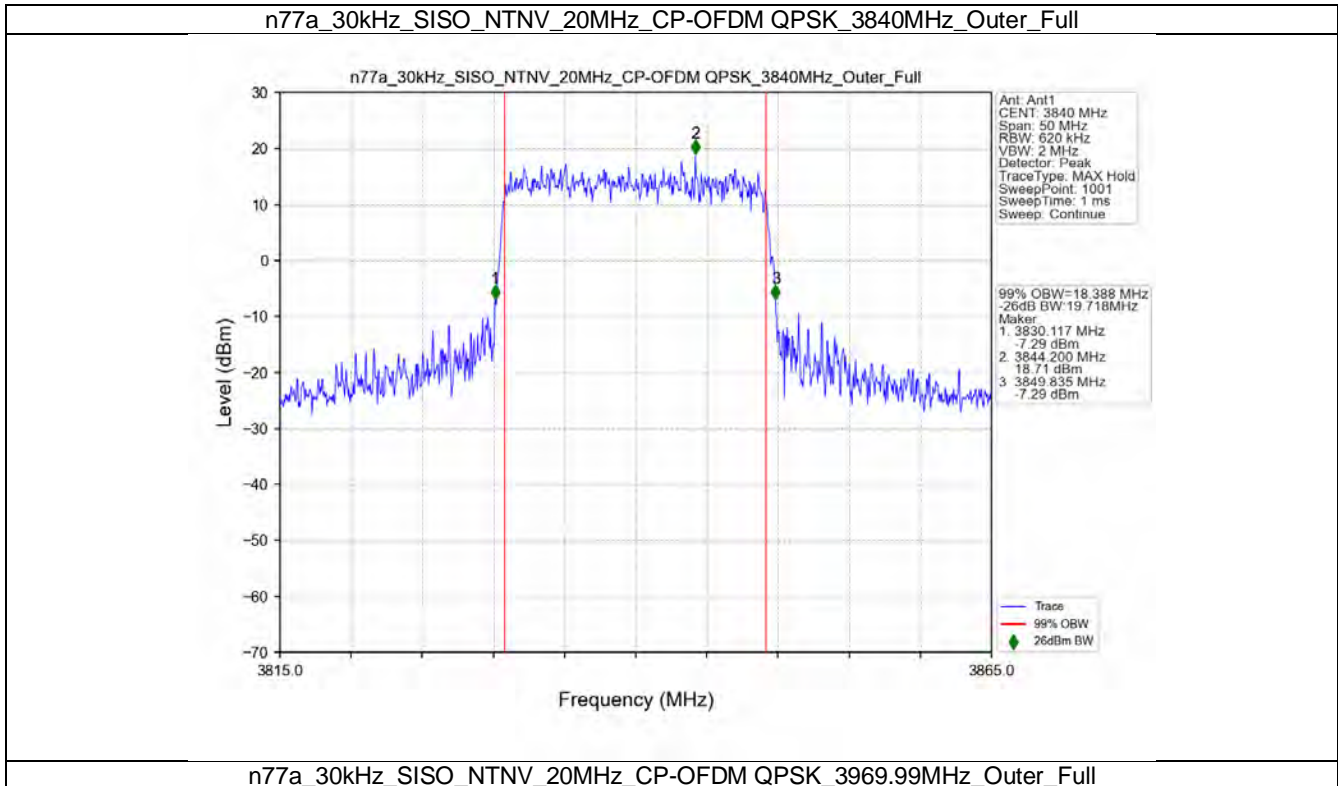


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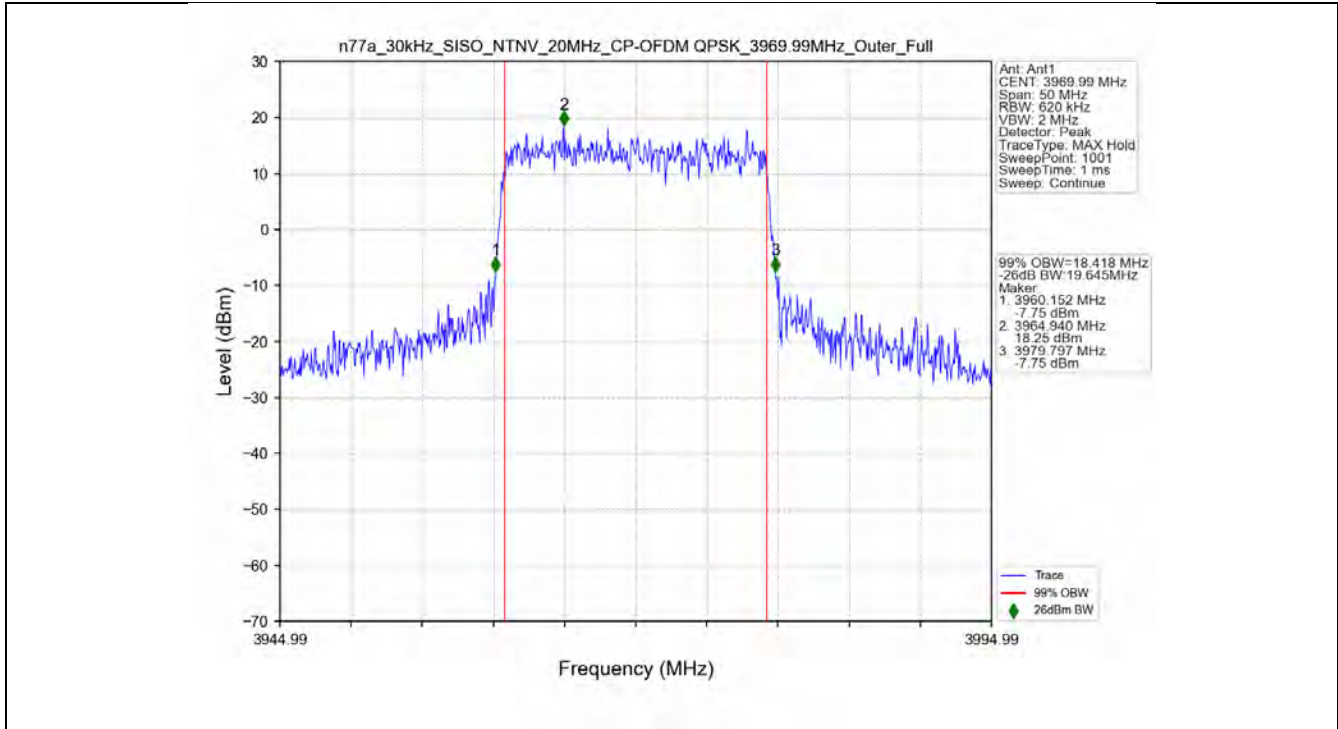


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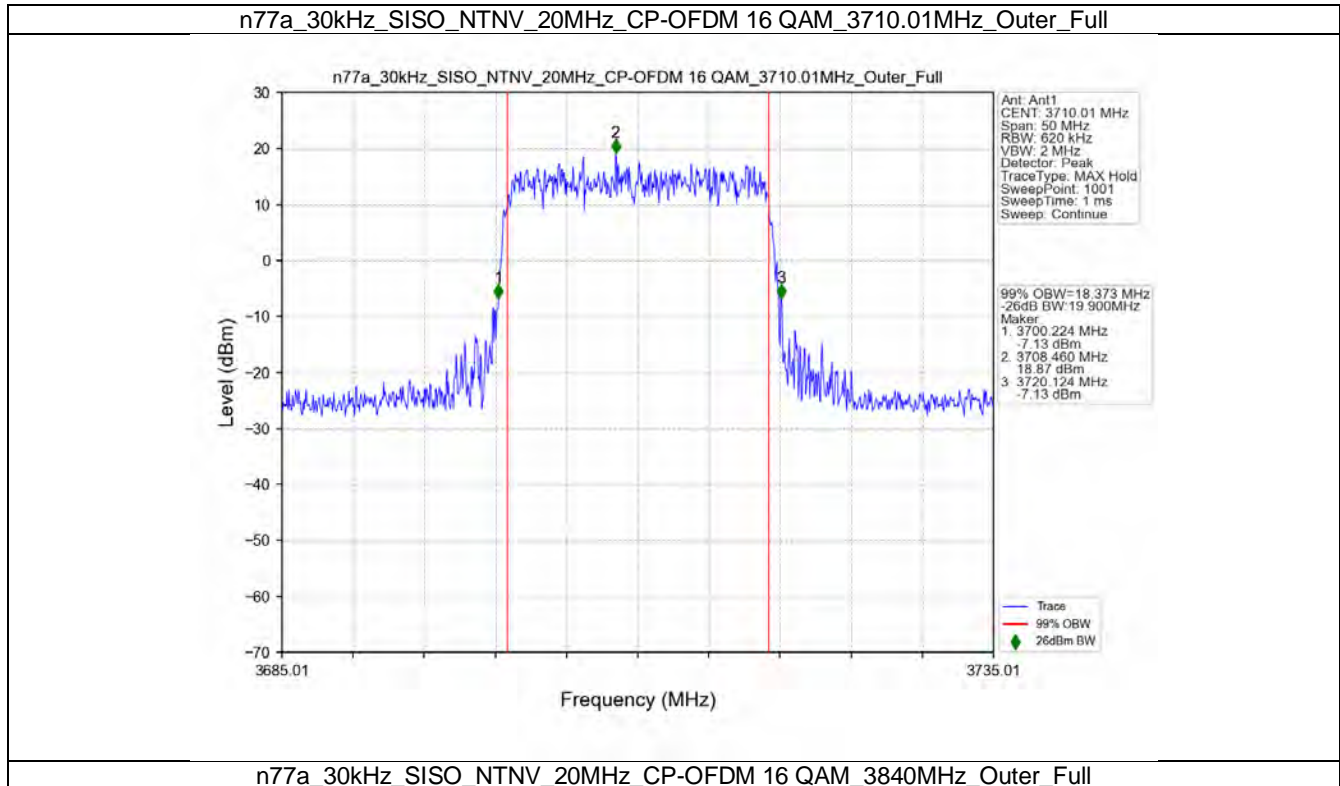


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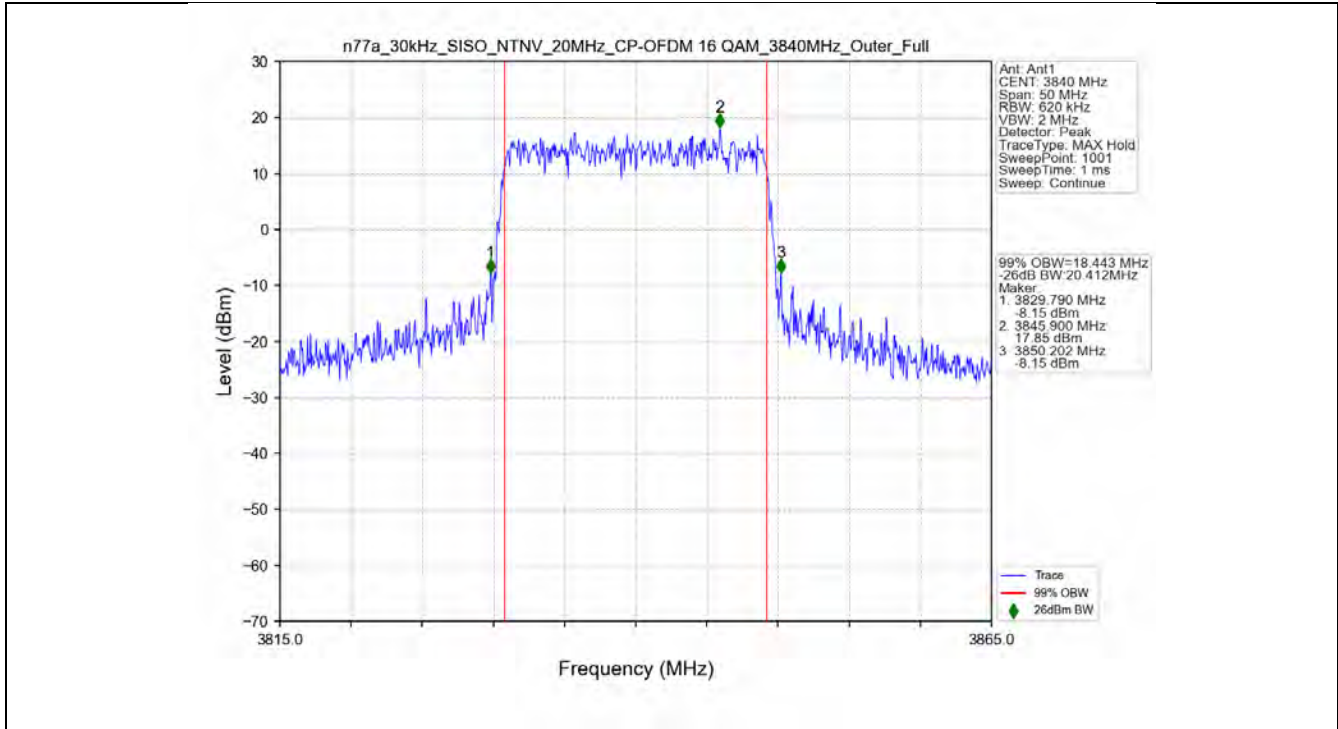


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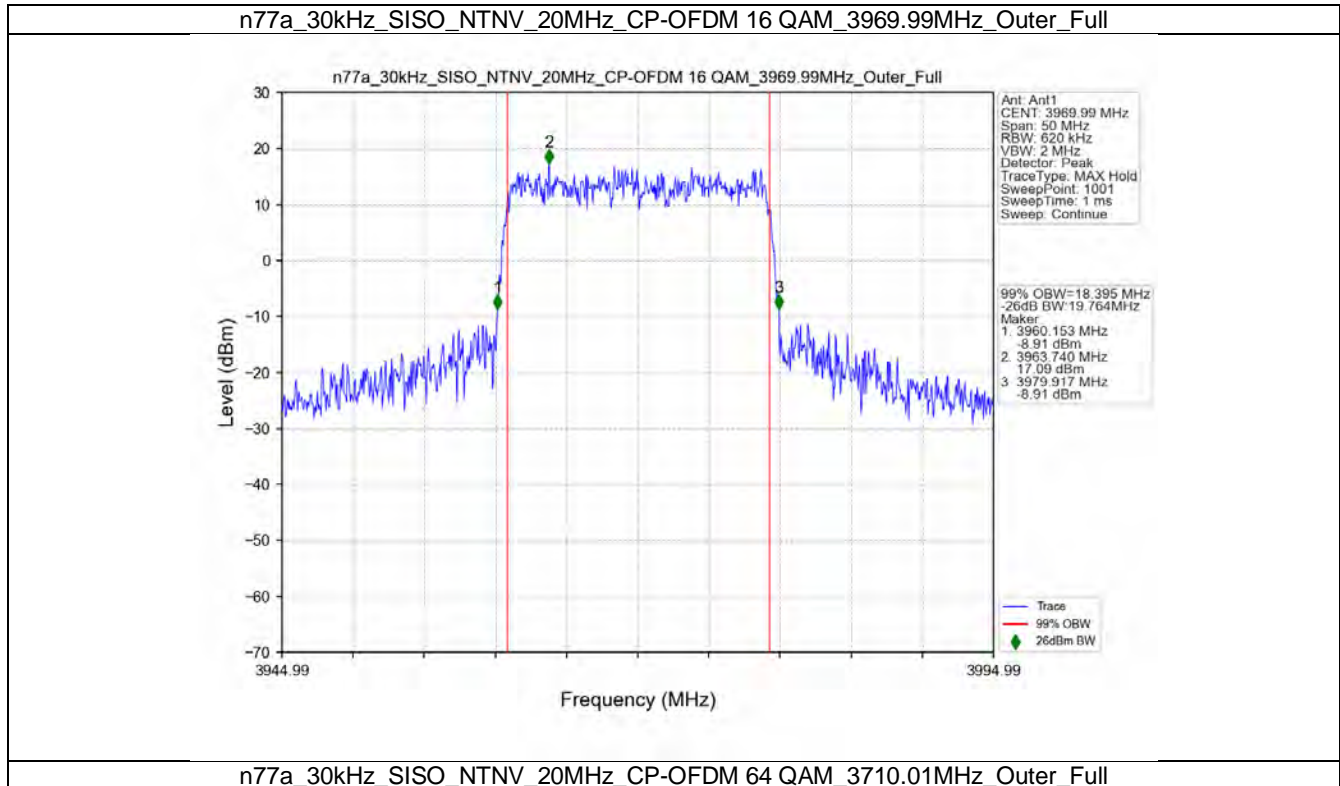


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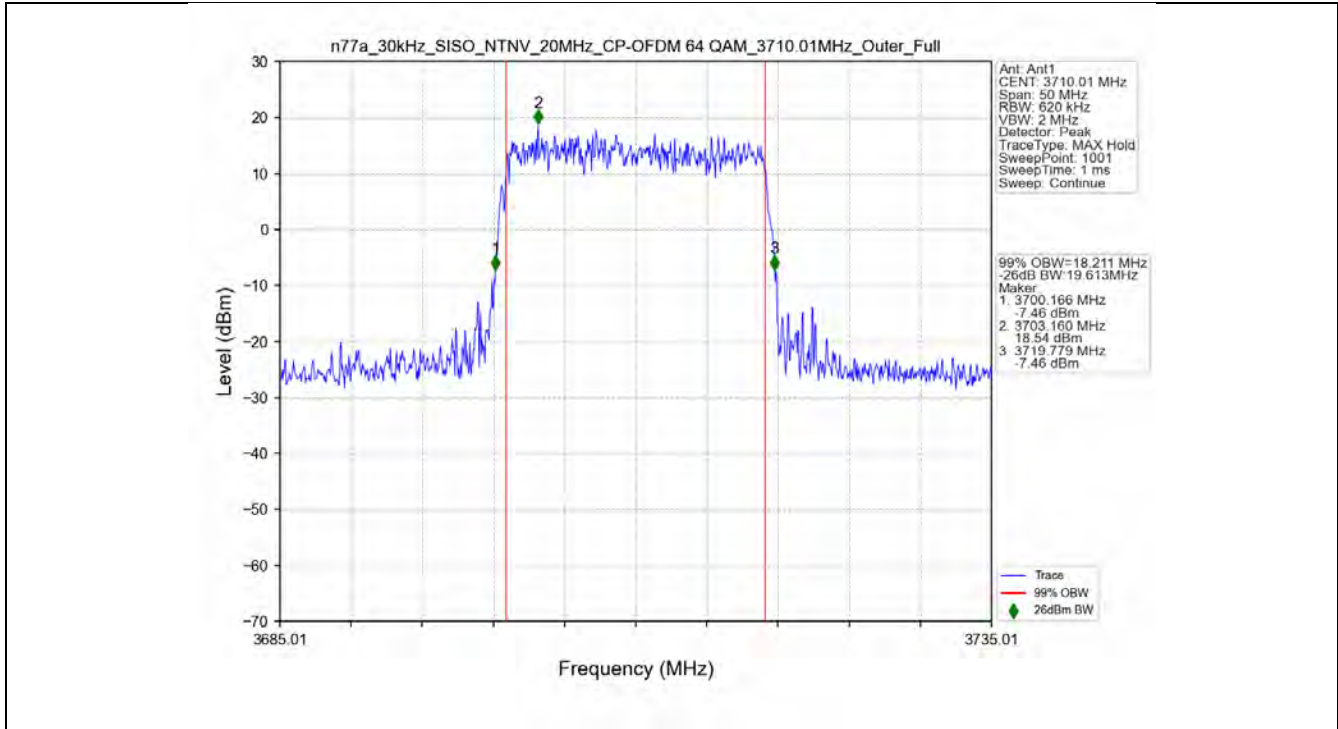


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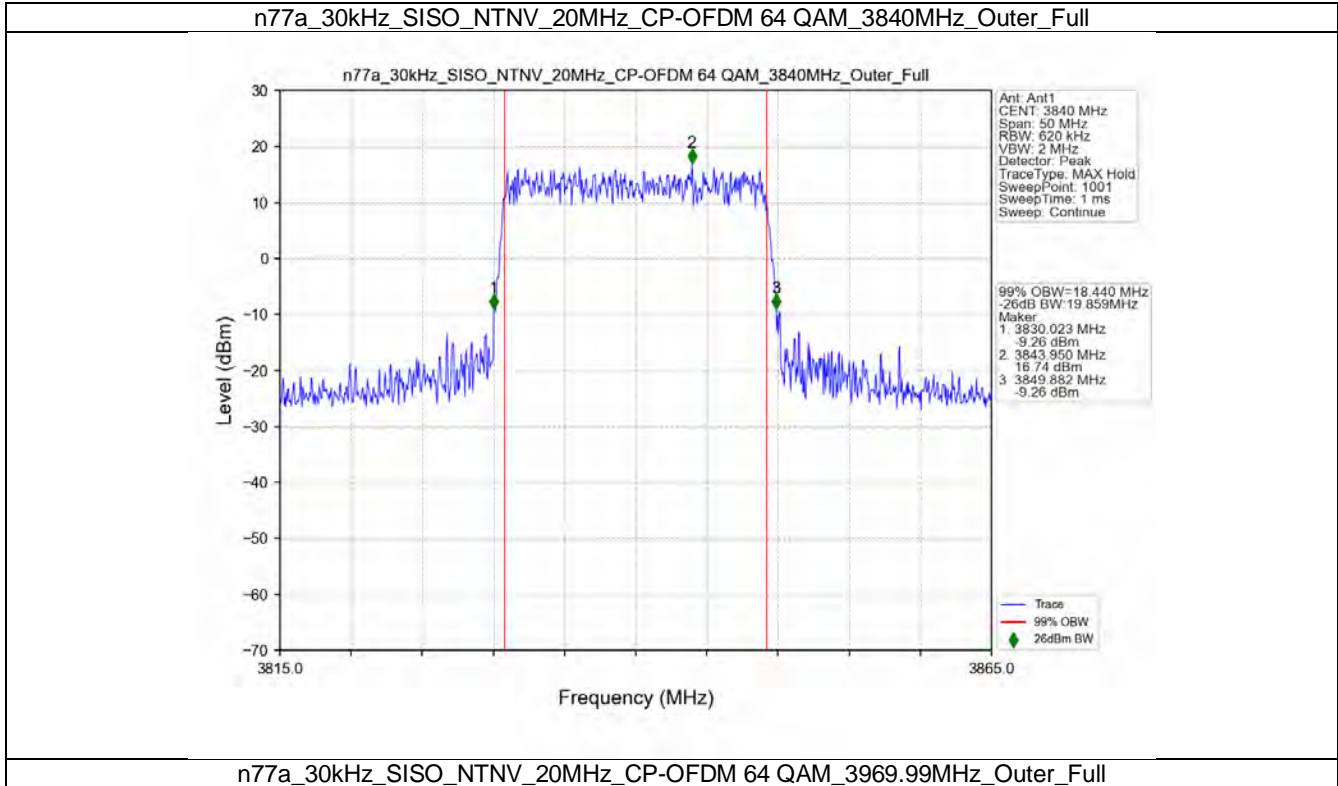


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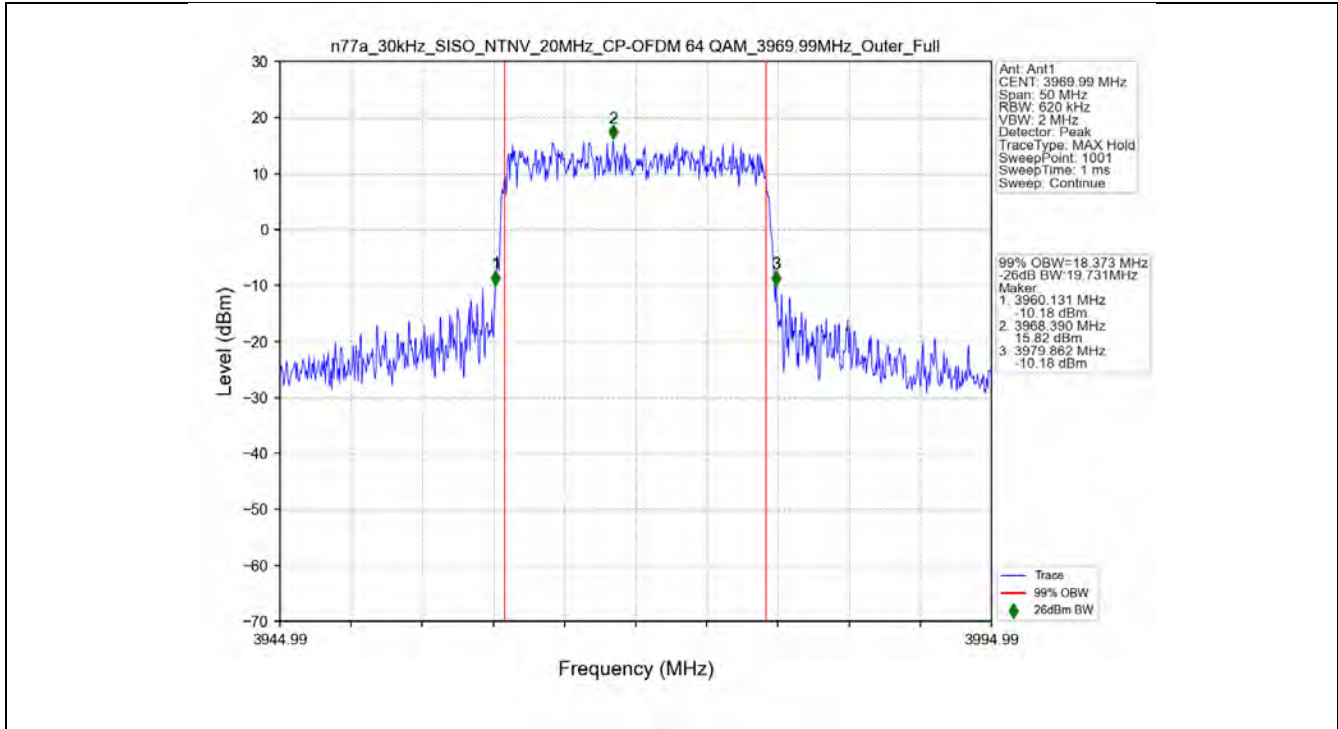


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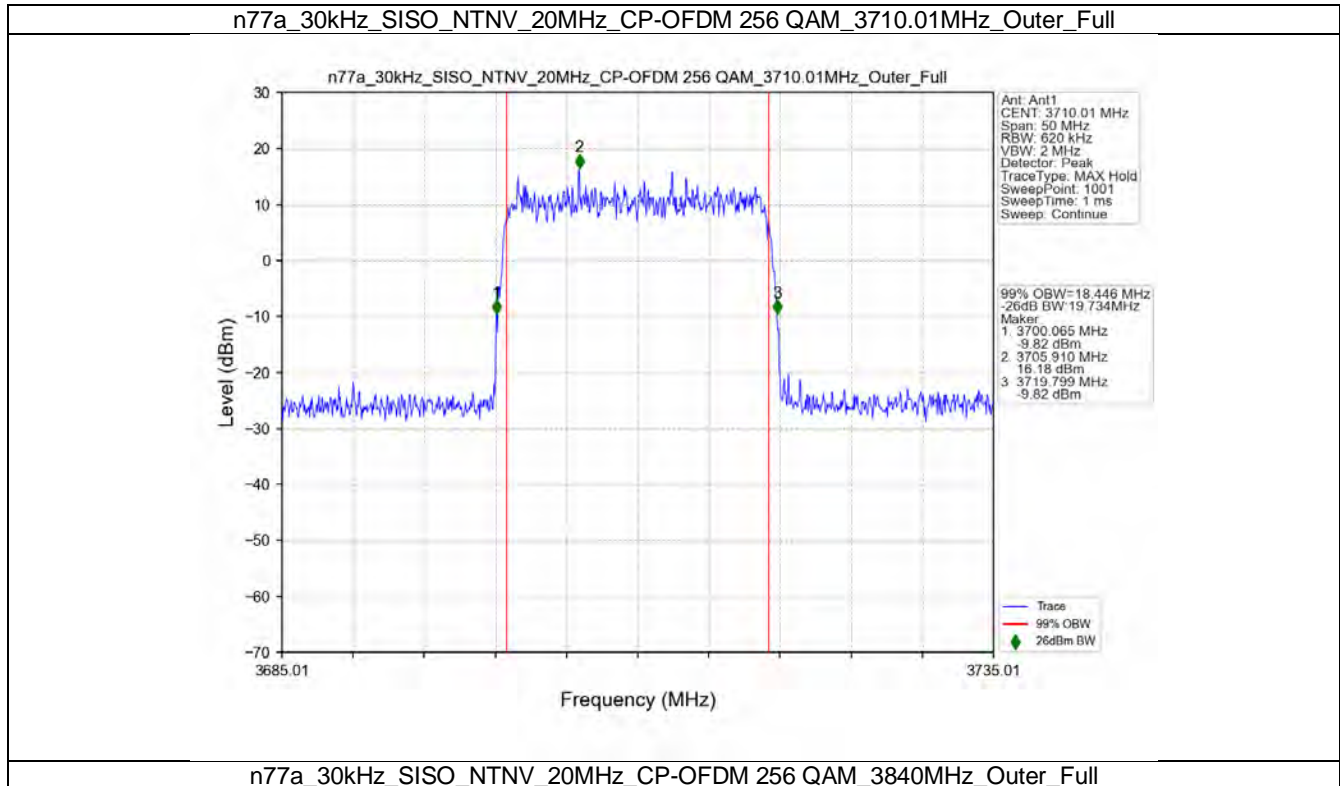


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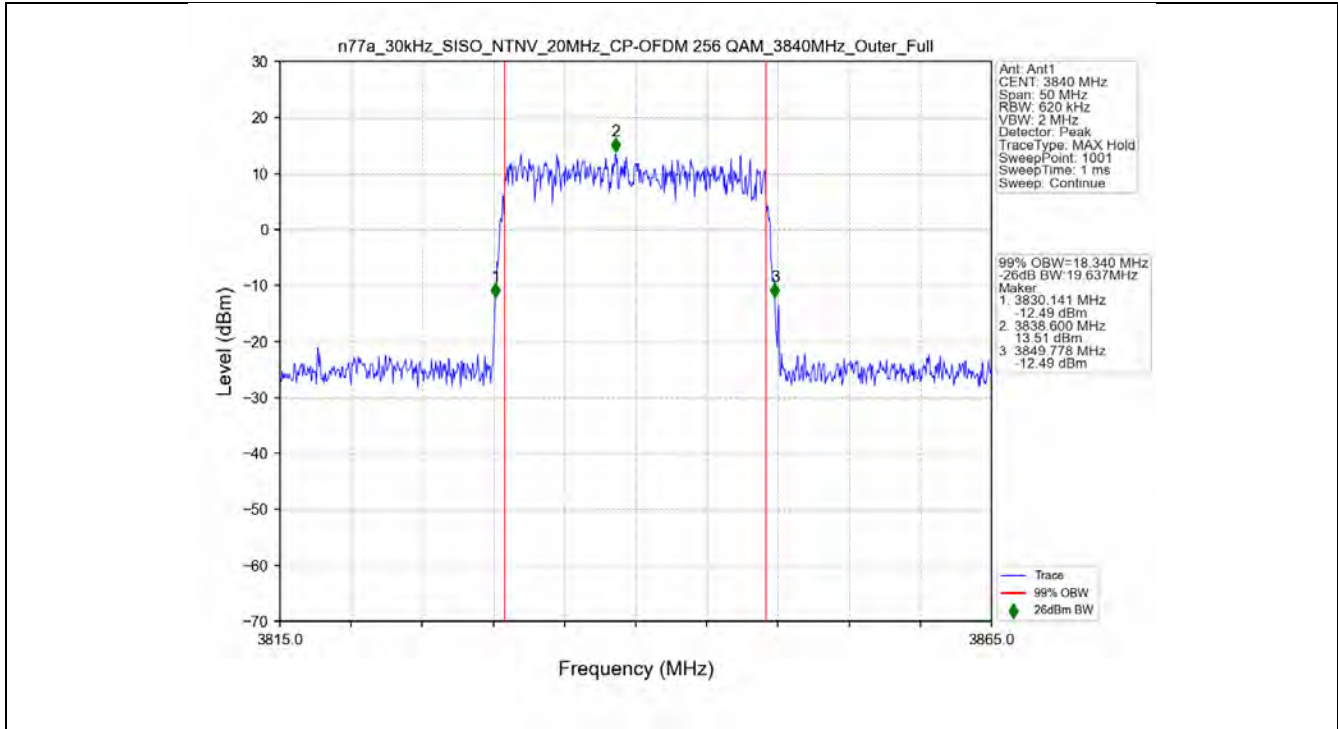


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3.2 30k_SISO_30MHz_NTNV

3.2.1 Test Result

5G NR n77a SCS=30kHz SISO 30MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3715.02	Outer_Full	27.11	28.91	/	Pass
	3840	Outer_Full	26.99	28.92	/	Pass
	3964.98	Outer_Full	27.18	29.19	/	Pass
DFT-s-OFDM QPSK	3715.02	Outer_Full	27.15	29.07	/	Pass
	3840	Outer_Full	27.18	28.99	/	Pass
	3964.98	Outer_Full	27.04	29.00	/	Pass
DFT-s-OFDM 16 QAM	3715.02	Outer_Full	27.18	29.03	/	Pass
	3840	Outer_Full	27.04	29.02	/	Pass
	3964.98	Outer_Full	27.05	28.99	/	Pass
DFT-s-OFDM 64 QAM	3715.02	Outer_Full	26.84	28.89	/	Pass
	3840	Outer_Full	27.21	28.84	/	Pass
	3964.98	Outer_Full	27.10	28.91	/	Pass
DFT-s-OFDM 256 QAM	3715.02	Outer_Full	27.07	29.01	/	Pass
	3840	Outer_Full	27.16	28.79	/	Pass
	3964.98	Outer_Full	27.09	28.92	/	Pass
CP-OFDM QPSK	3715.02	Outer_Full	28.19	29.98	/	Pass
	3840	Outer_Full	28.20	29.73	/	Pass
	3964.98	Outer_Full	28.04	31.47	/	Pass
CP-OFDM 16 QAM	3715.02	Outer_Full	28.10	30.04	/	Pass
	3840	Outer_Full	28.15	29.95	/	Pass
	3964.98	Outer_Full	27.99	30.11	/	Pass
CP-OFDM 64 QAM	3715.02	Outer_Full	27.99	29.79	/	Pass
	3840	Outer_Full	28.09	30.05	/	Pass
	3964.98	Outer_Full	28.08	31.82	/	Pass
CP-OFDM 256 QAM	3715.02	Outer_Full	27.92	29.99	/	Pass
	3840	Outer_Full	28.16	29.83	/	Pass
	3964.98	Outer_Full	28.10	29.94	/	Pass



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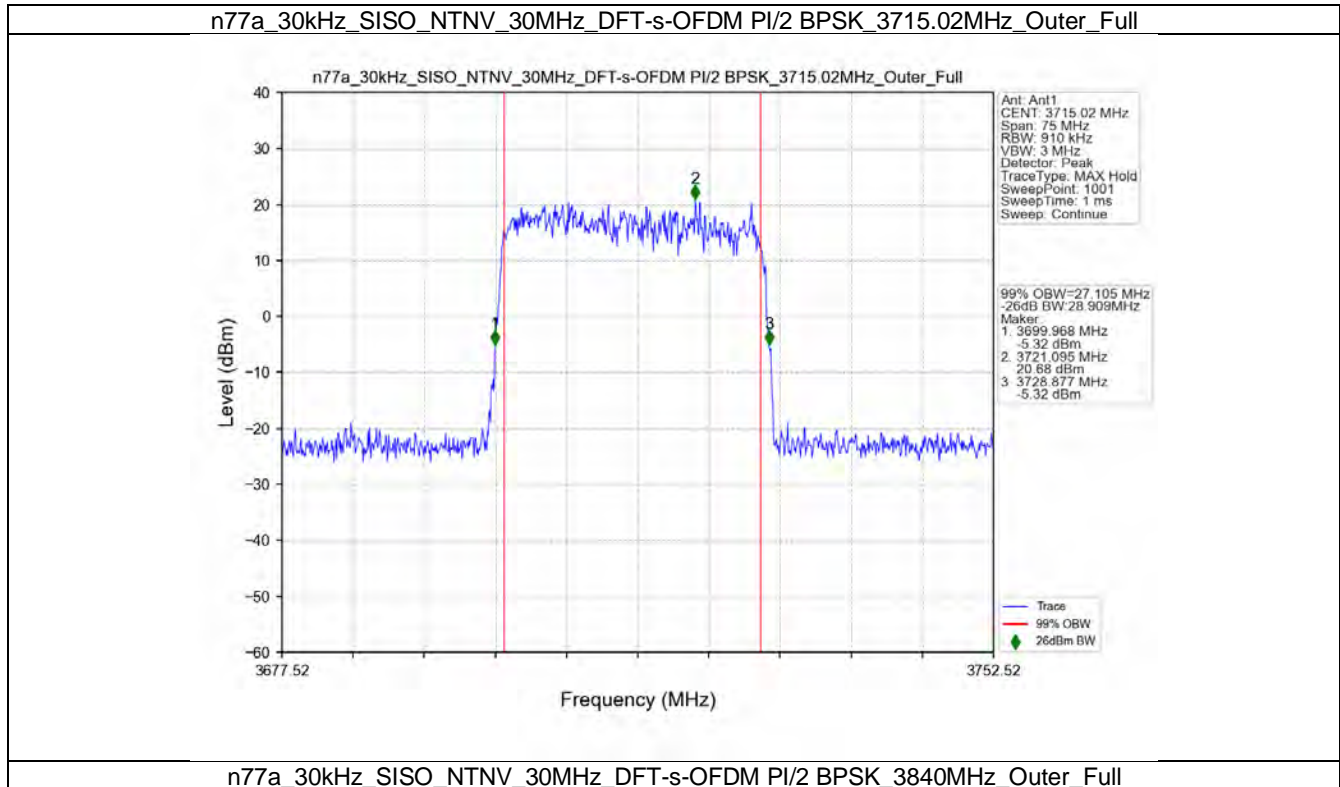
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3.2.2 Test Graph



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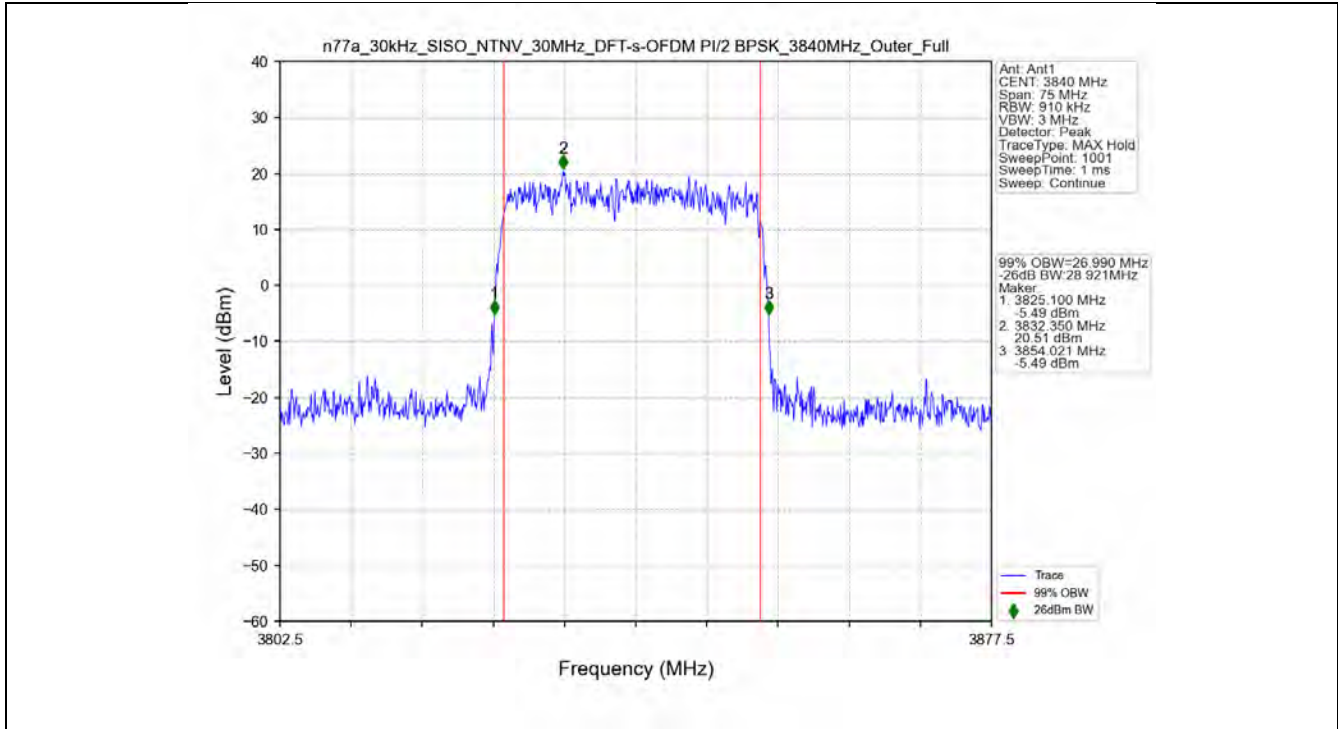


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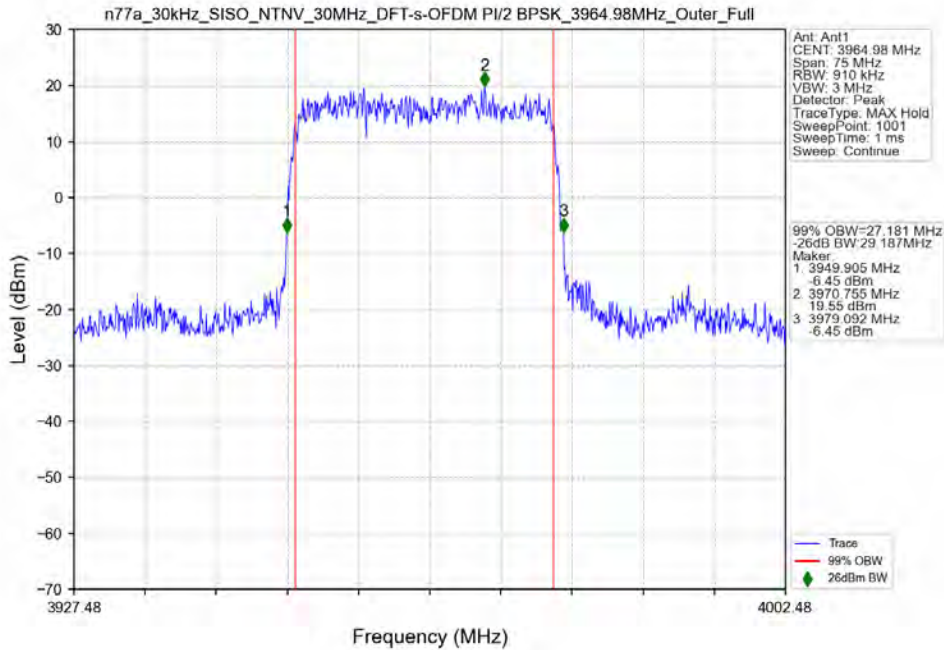
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n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3964.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3715.02MHz_Outer_Full



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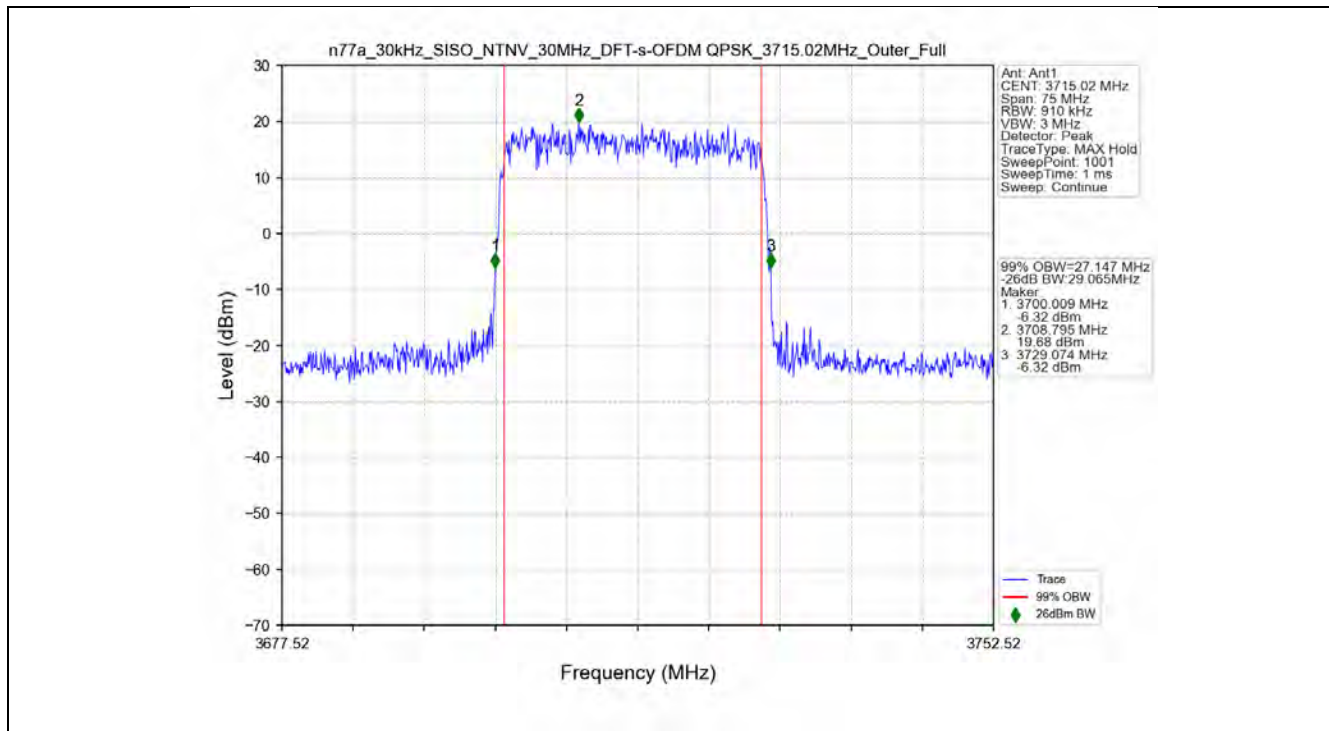
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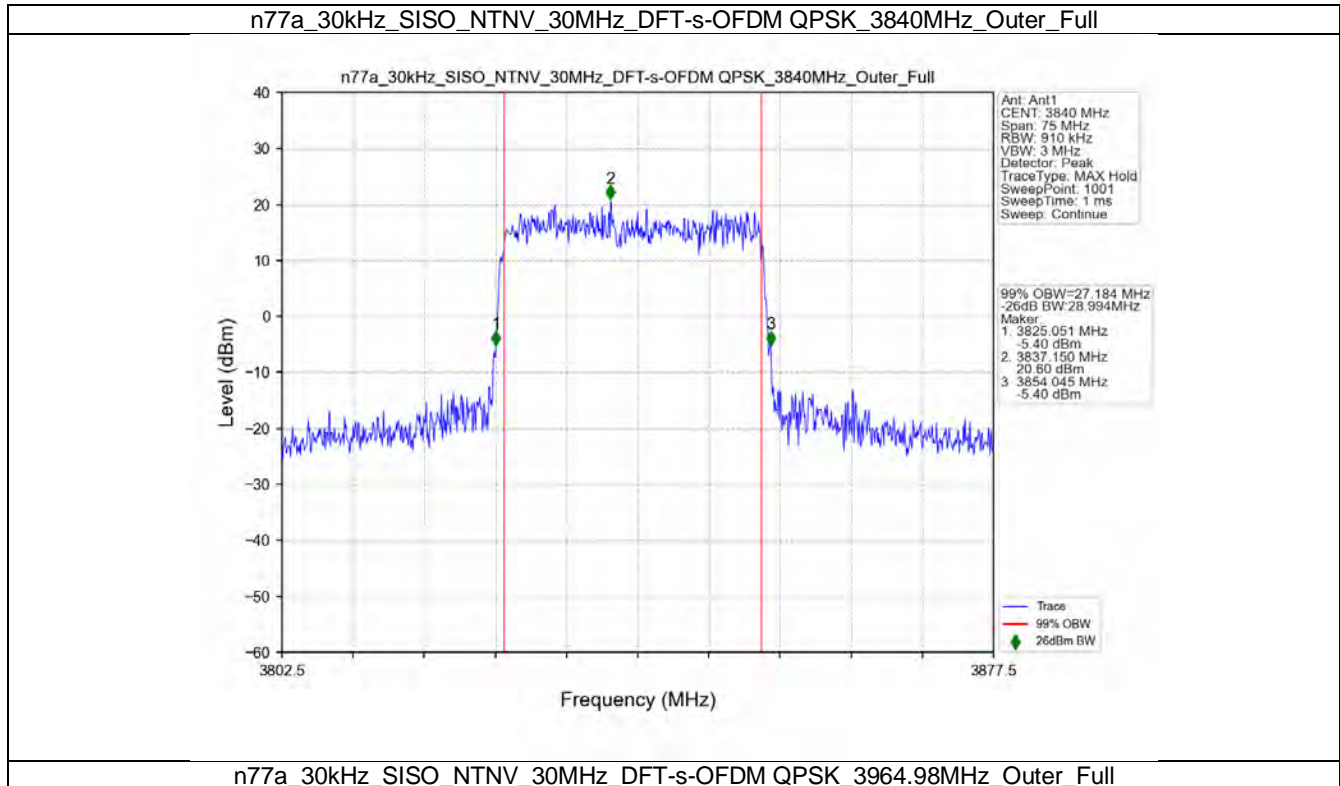


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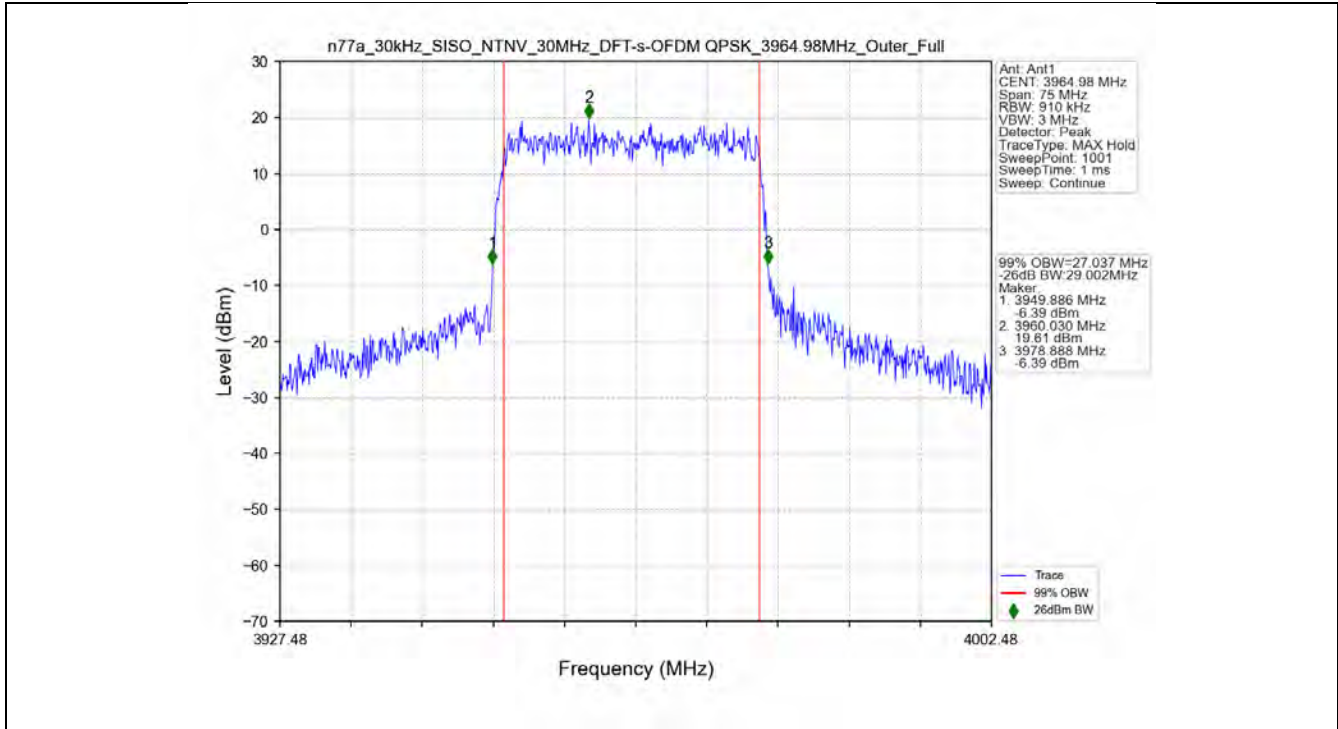


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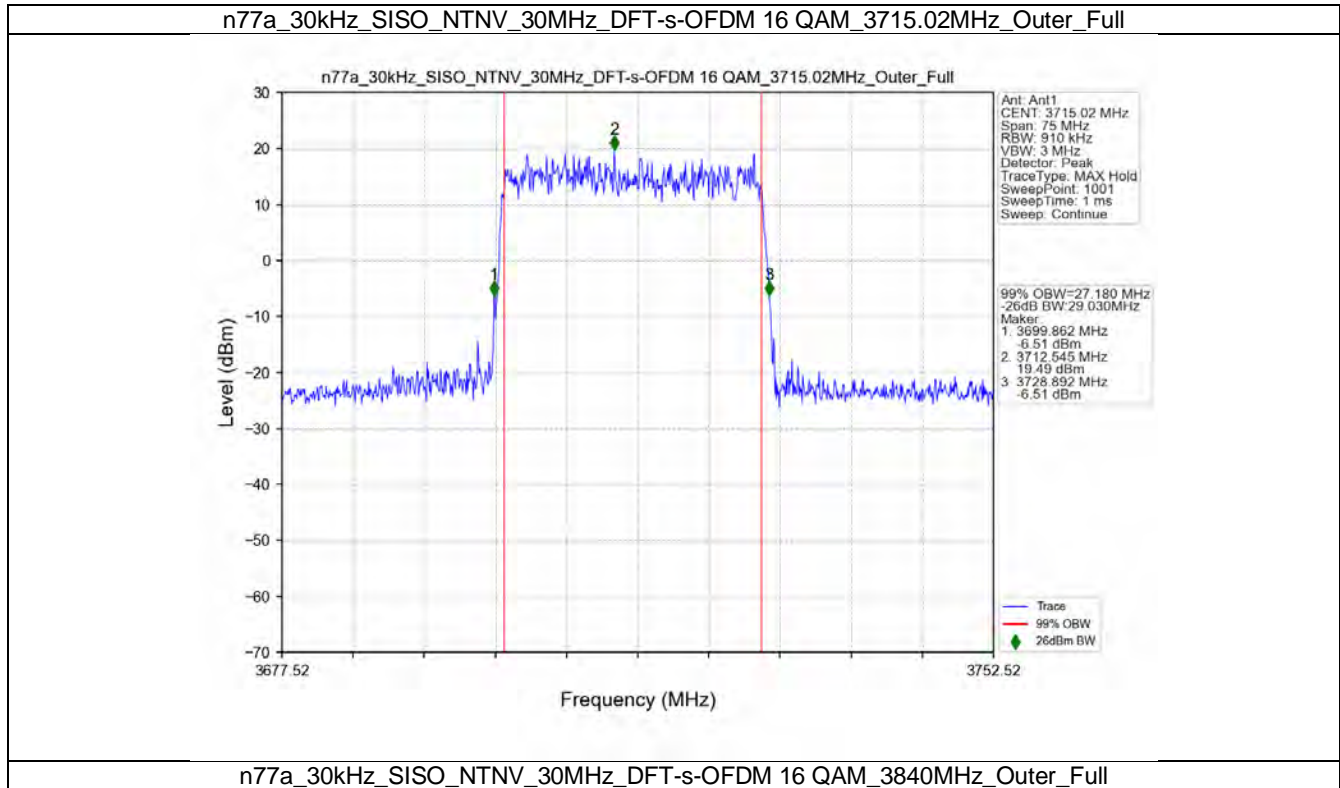


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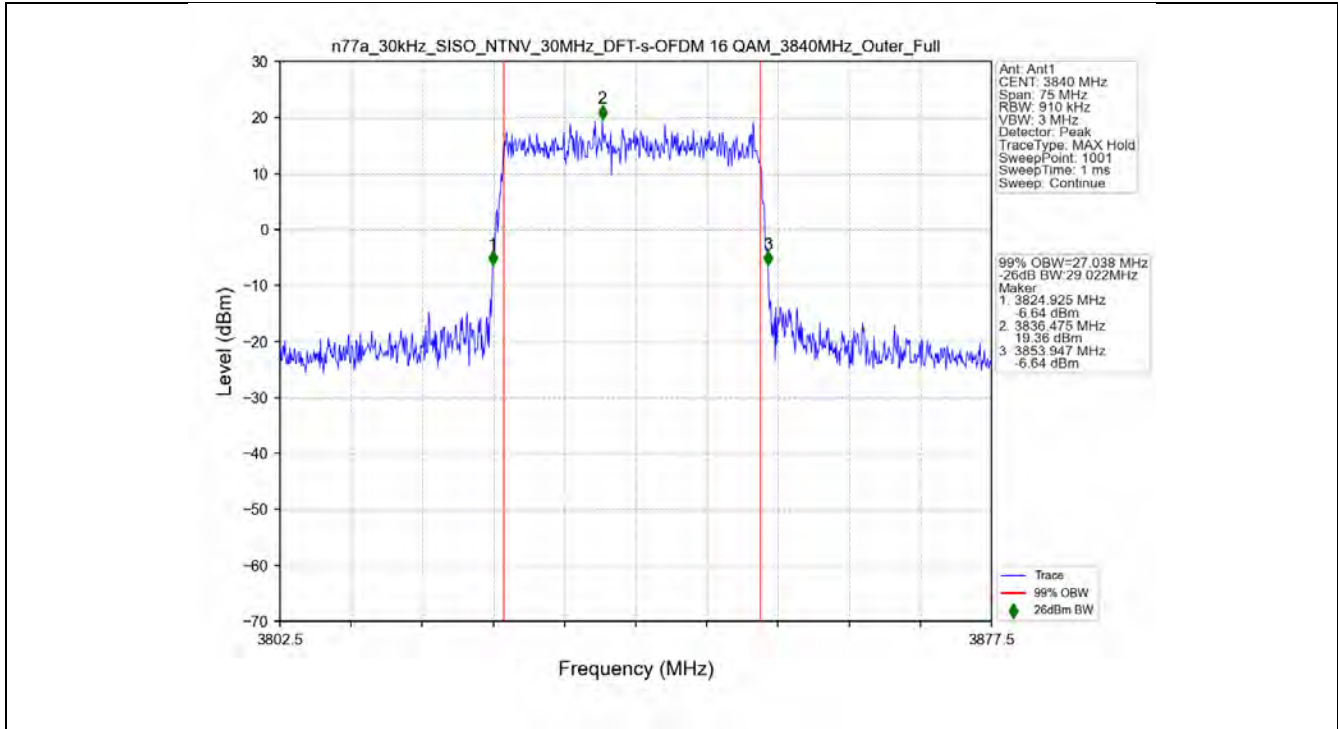


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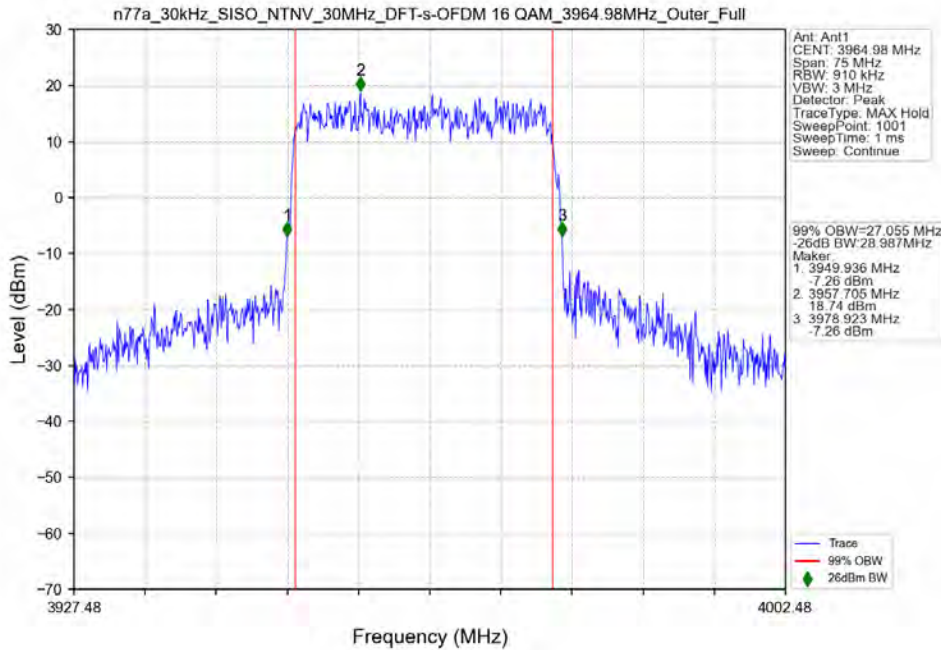
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n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3715.02MHz_Outer_Full



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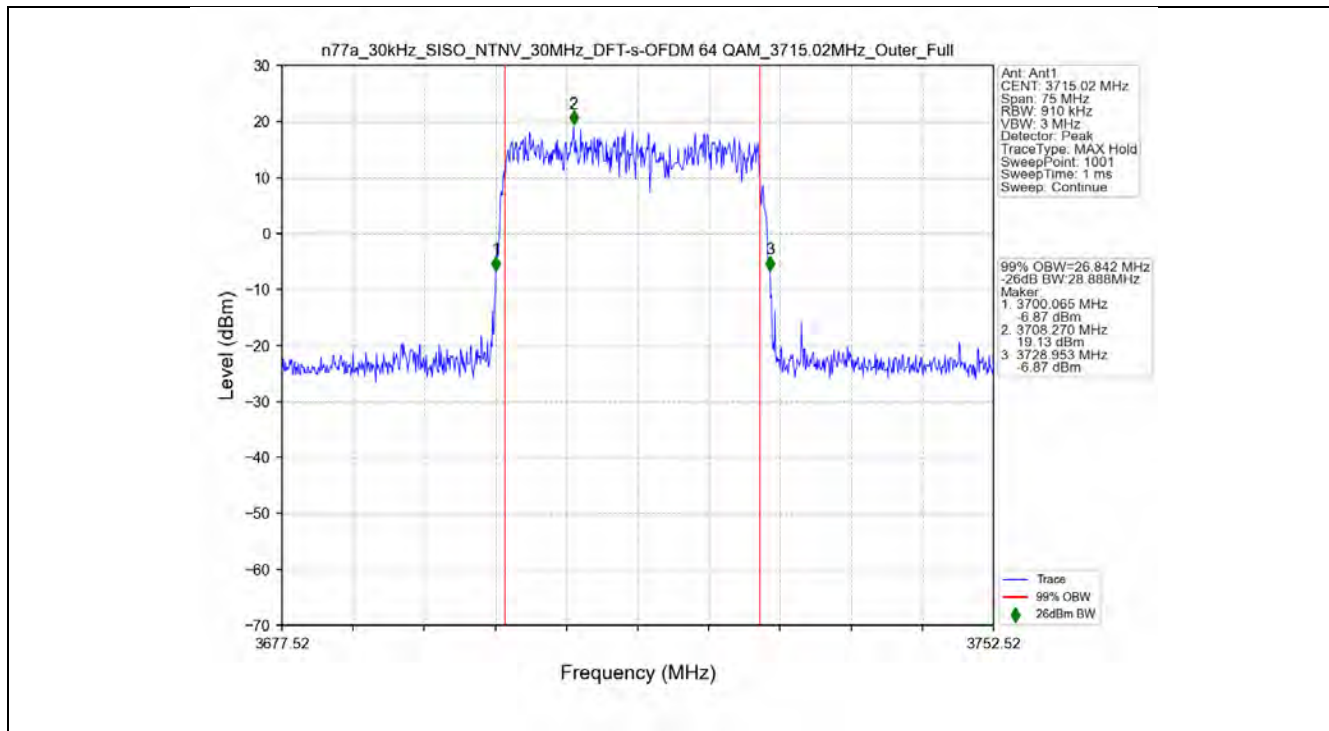
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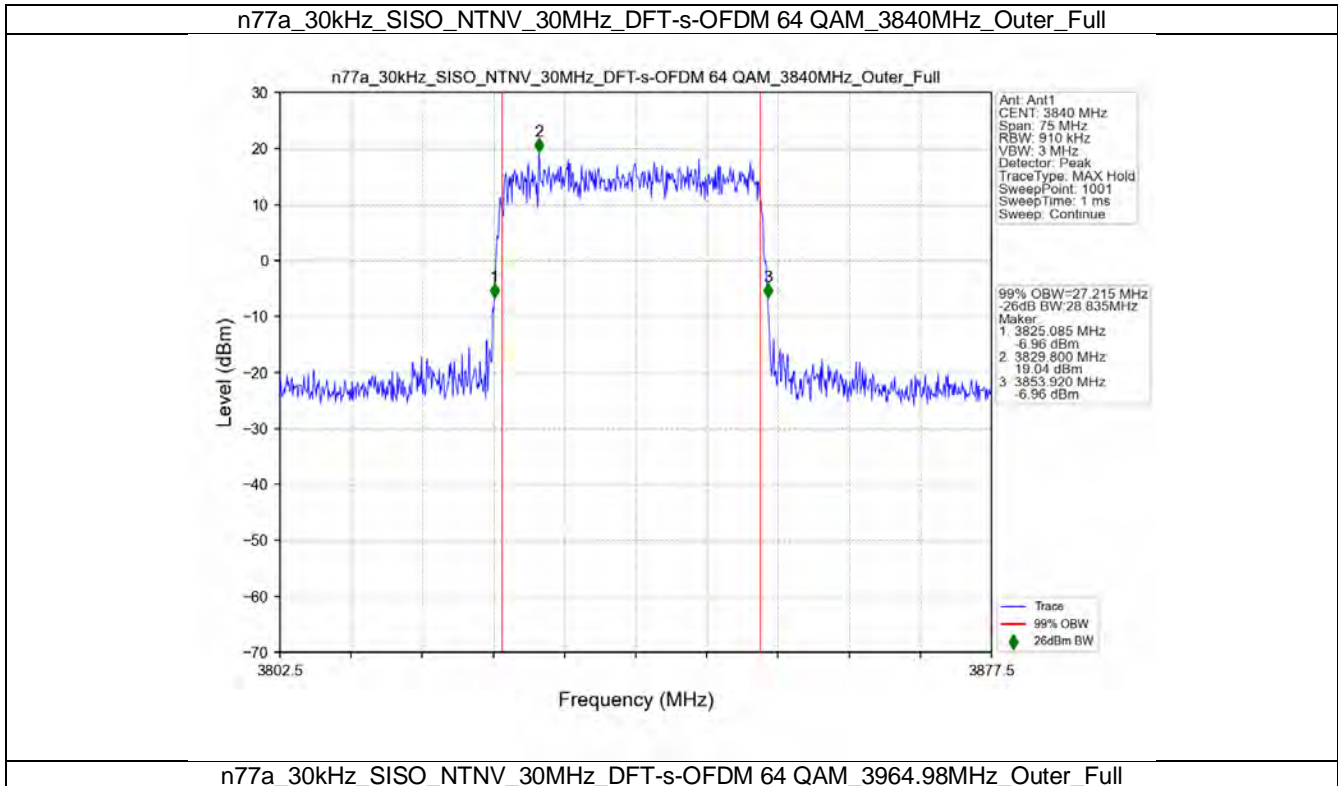


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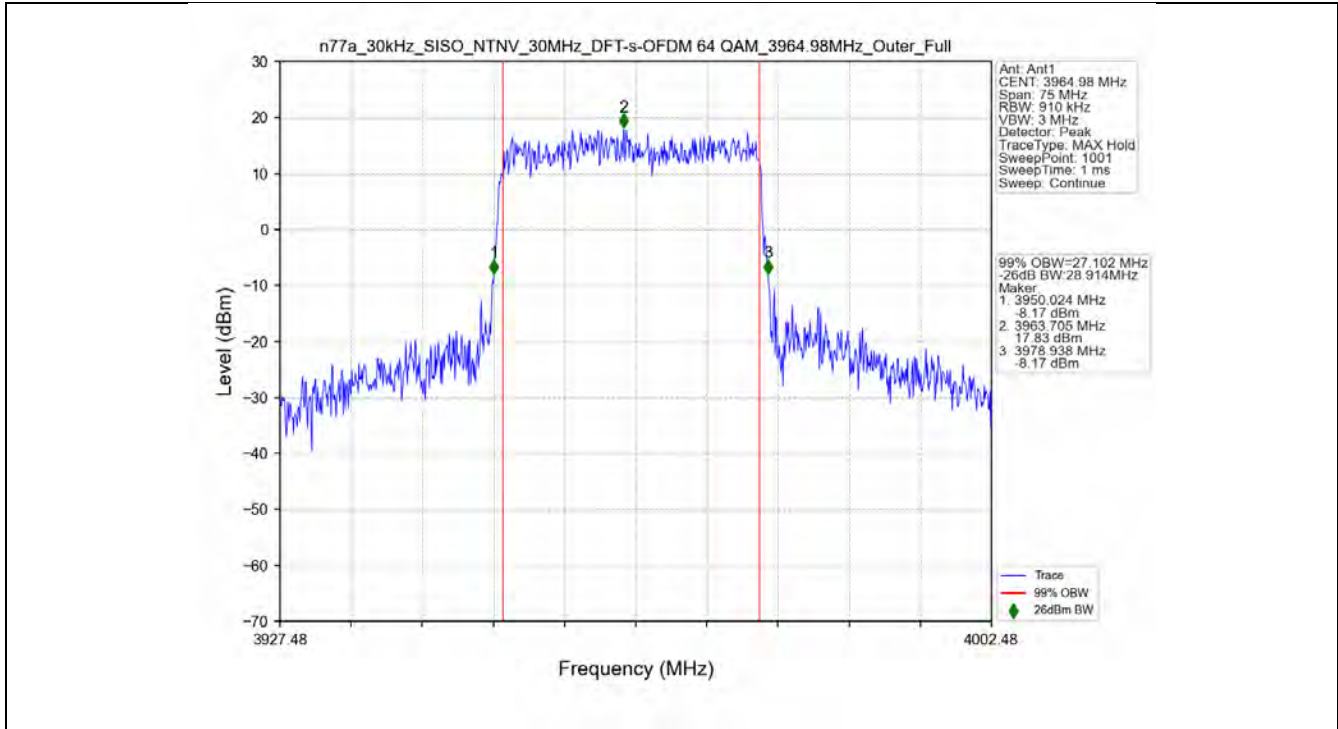


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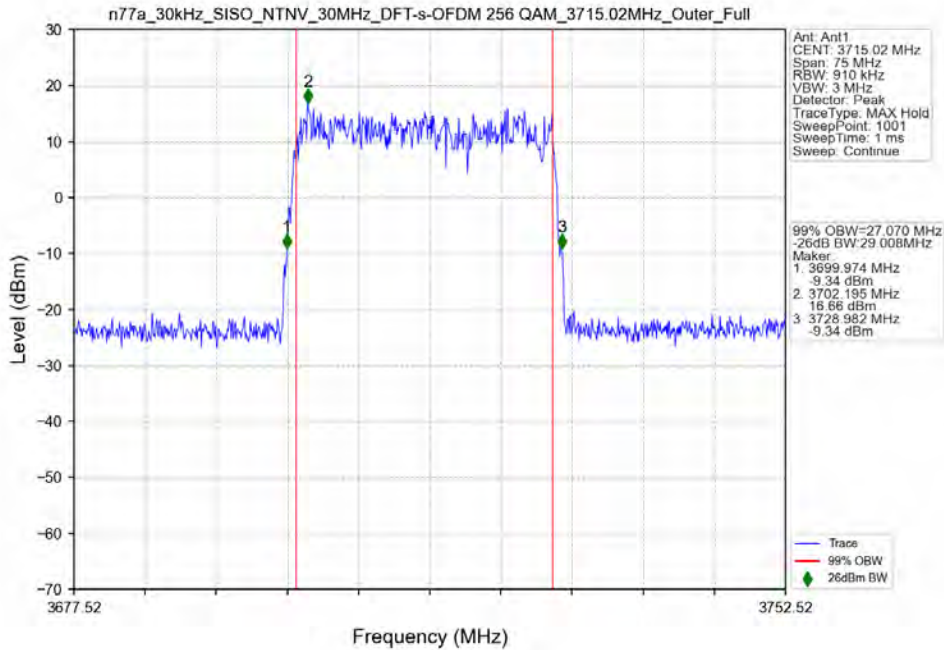
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n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3840MHz_Outer_Full



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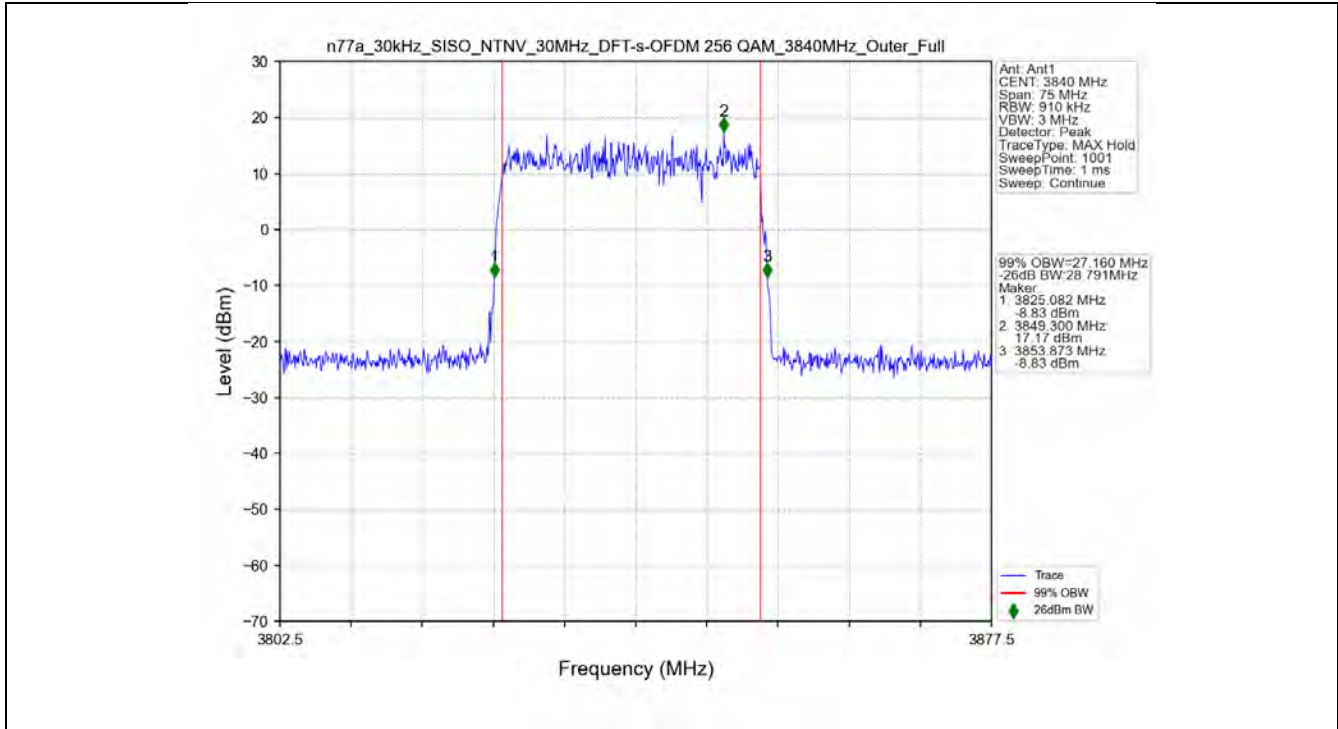


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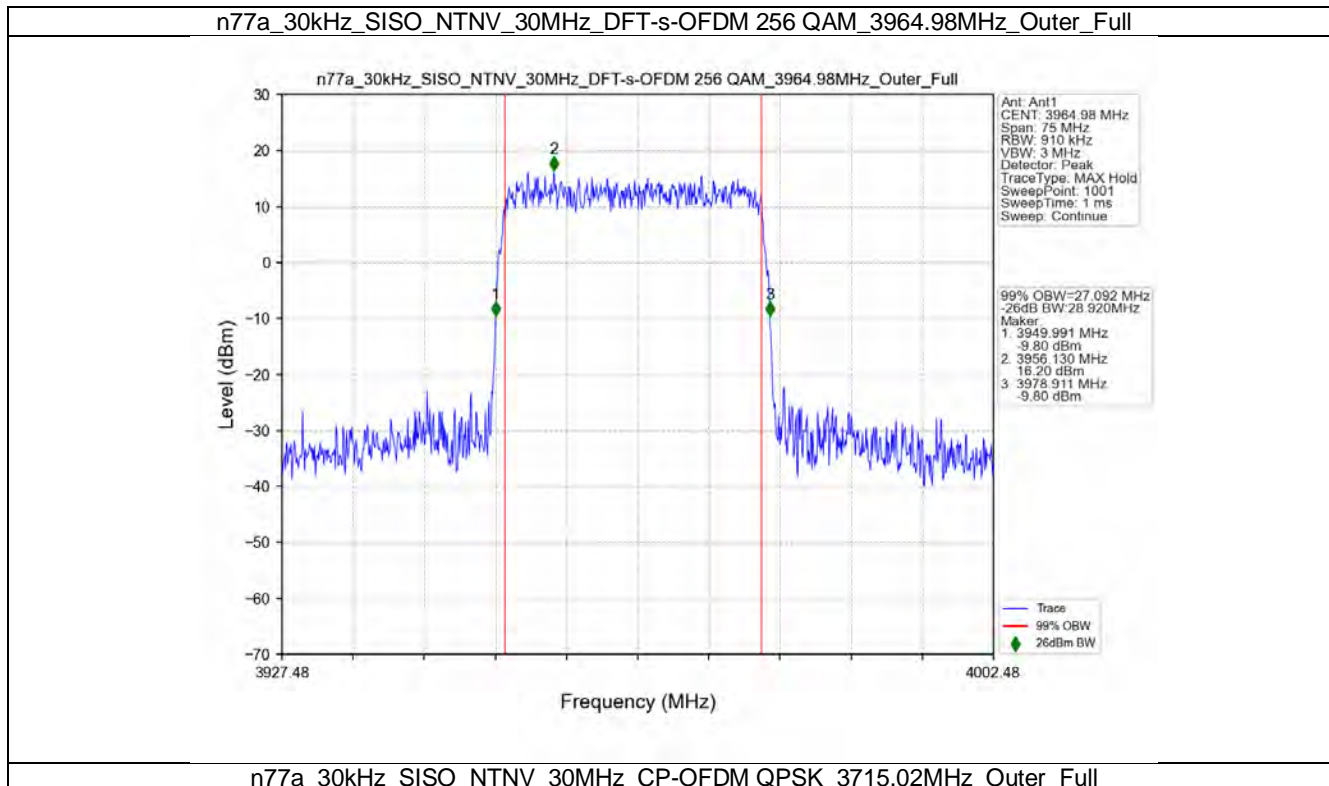
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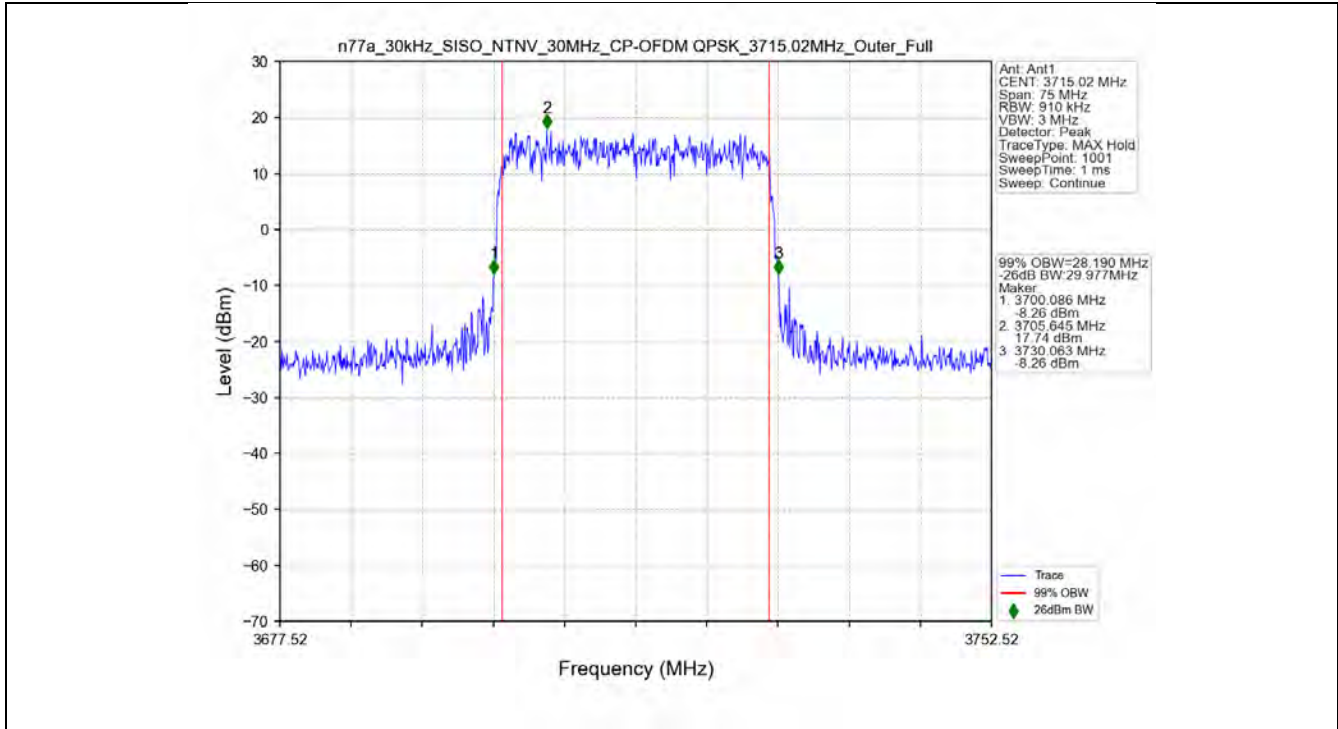


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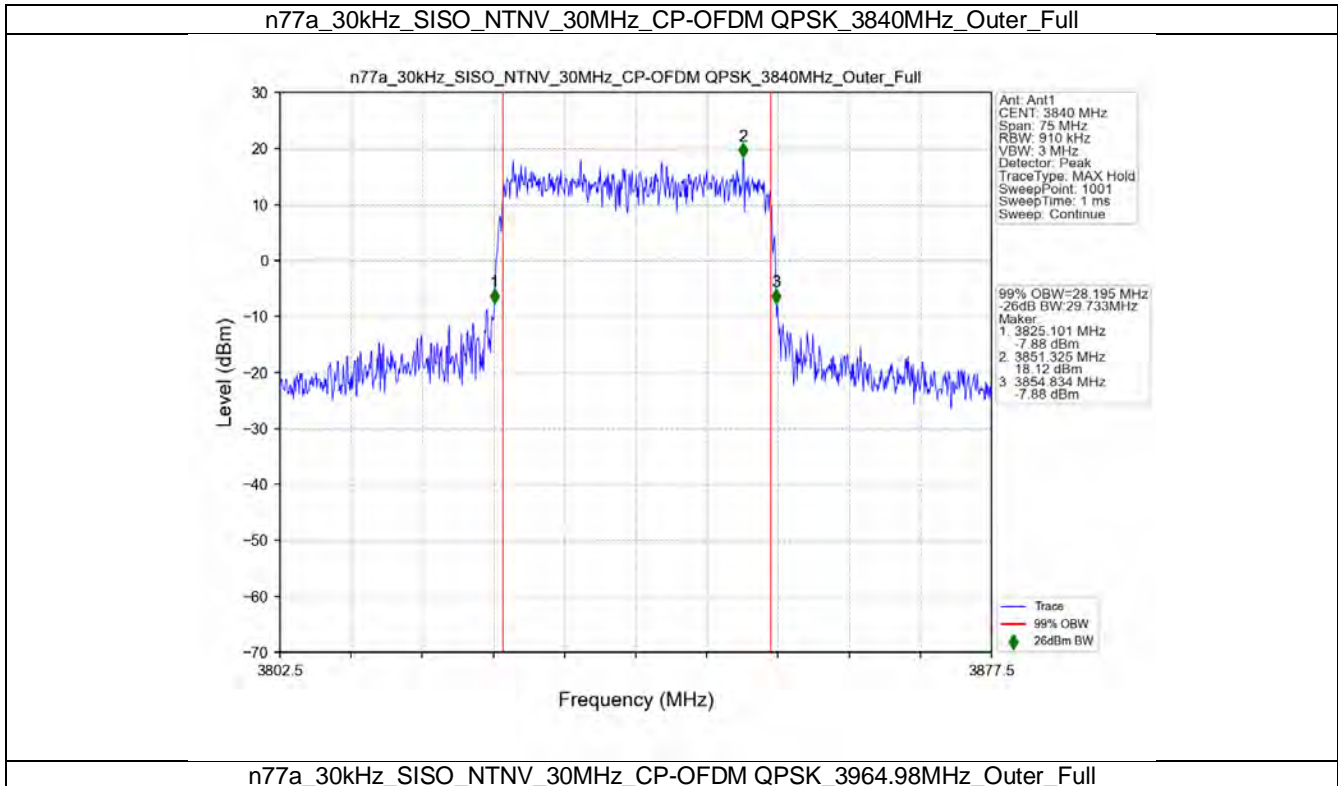


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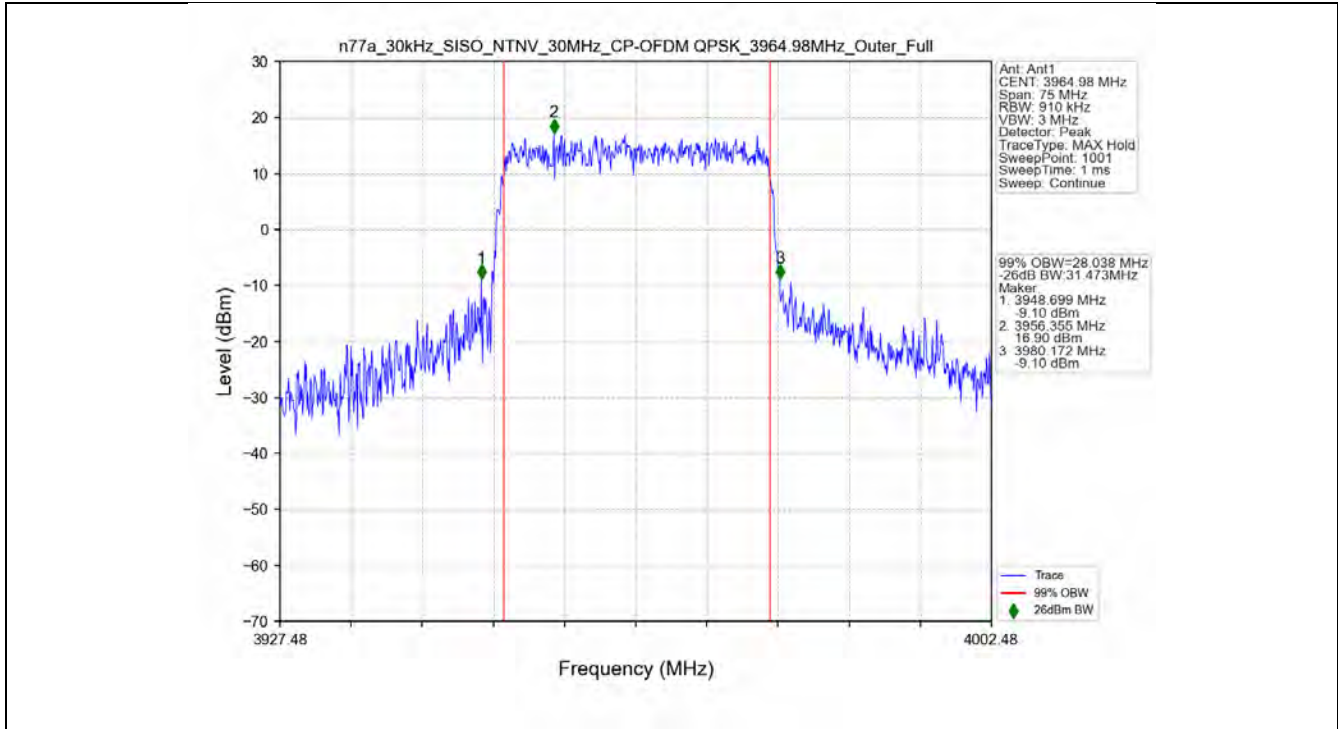


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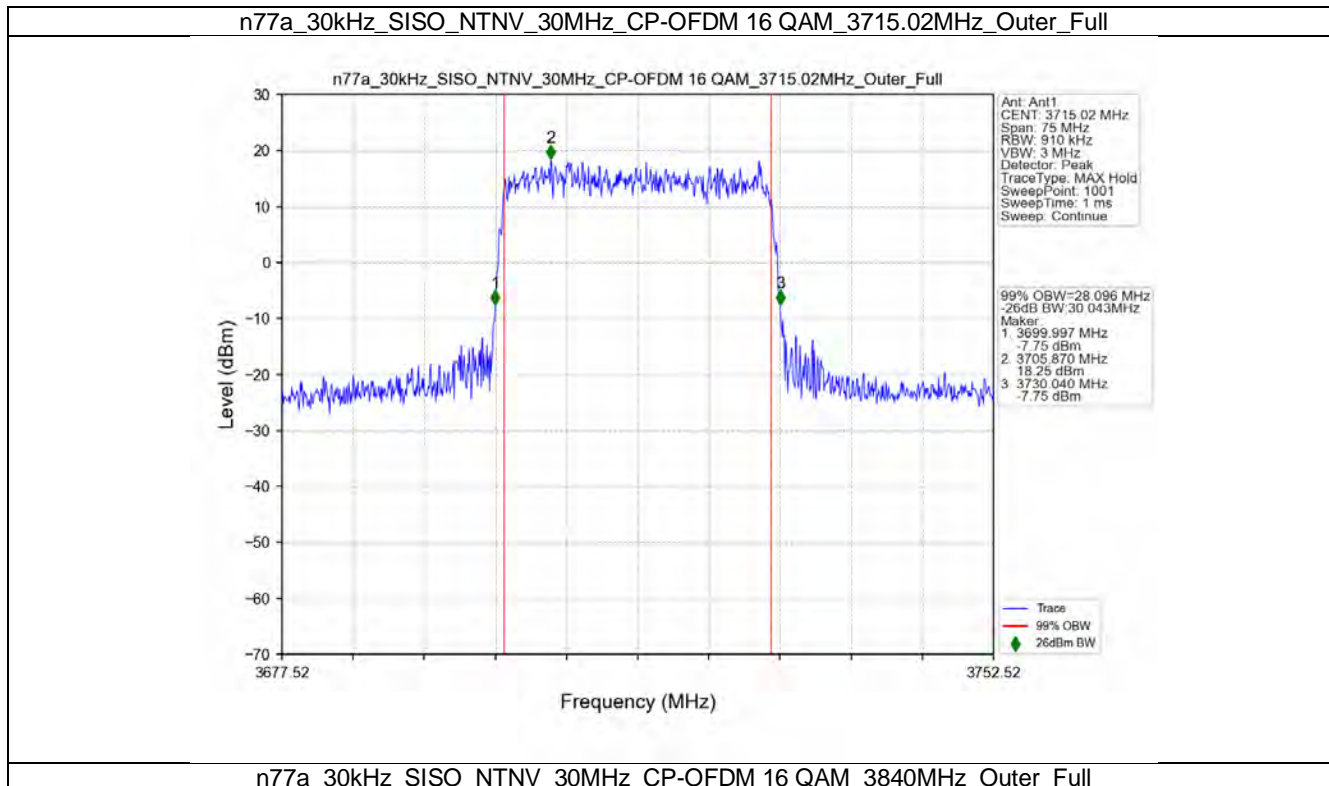
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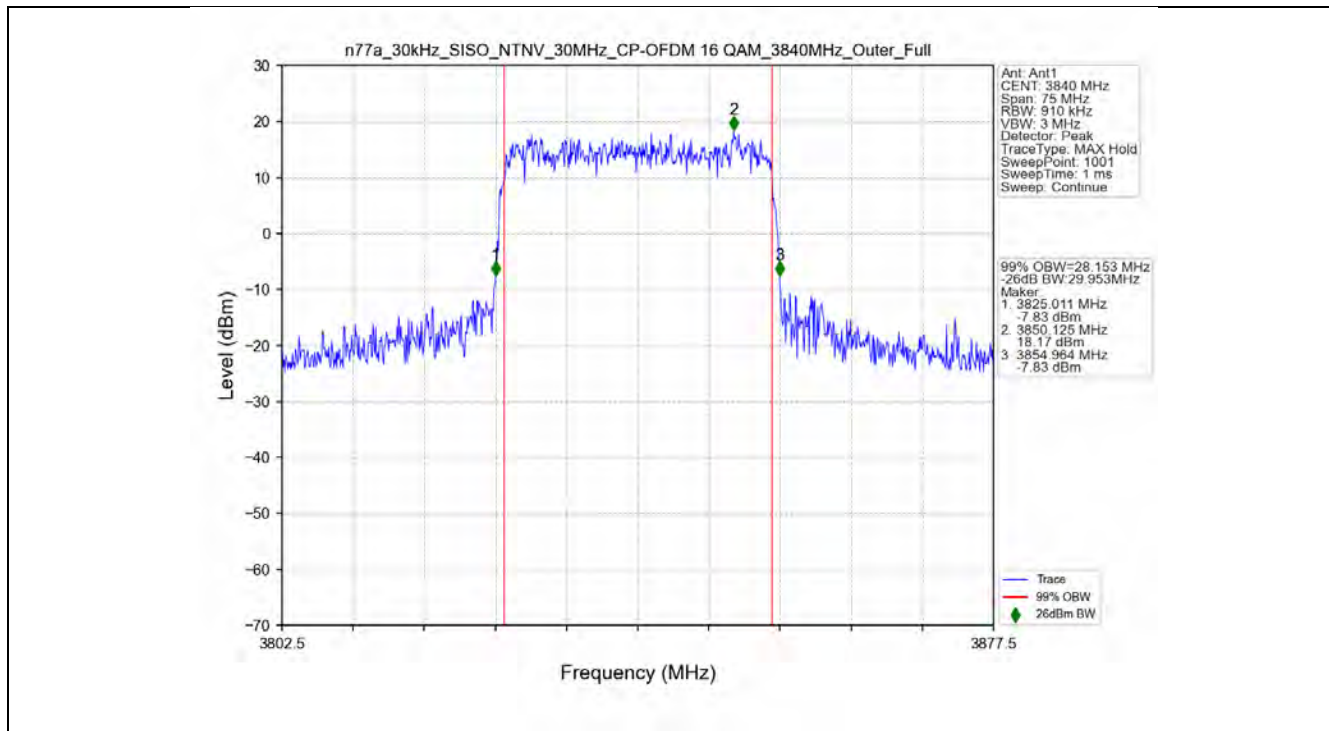
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