

Appendix C.9

NR Band n77



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3700MHz-3980MHz

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 30k_MIMO_10MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3705	Edge_1RB_Left	19.58	19.58	22.59	24.33	24.33	27.34	<=30	Pass
		Edge_1RB_Right	19.47	19.65	22.57	24.22	24.40	27.32	<=30	Pass
		Outer_Full	19.96	20.29	23.14	24.71	25.04	27.89	<=30	Pass
		Inner_Full	19.93	20.27	23.12	24.68	25.02	27.86	<=30	Pass
		Inner_1RB_Left	20.14	20.35	23.26	24.89	25.10	28.01	<=30	Pass
		Inner_1RB_Right	19.95	20.29	23.13	24.70	25.04	27.88	<=30	Pass
	3840	Edge_1RB_Left	19.79	19.74	22.78	24.54	24.49	27.53	<=30	Pass
		Edge_1RB_Right	19.89	19.69	22.80	24.64	24.44	27.55	<=30	Pass
		Outer_Full	20.43	20.26	23.35	25.18	25.01	28.11	<=30	Pass
		Inner_Full	20.27	20.50	23.40	25.02	25.25	28.15	<=30	Pass
		Inner_1RB_Left	20.48	20.27	23.39	25.23	25.02	28.14	<=30	Pass
		Inner_1RB_Right	20.43	20.29	23.37	25.18	25.04	28.12	<=30	Pass
	3975	Edge_1RB_Left	19.92	19.87	22.91	24.67	24.62	27.66	<=30	Pass
		Edge_1RB_Right	19.93	19.78	22.87	24.68	24.53	27.62	<=30	Pass
		Outer_Full	20.39	20.26	23.34	25.14	25.01	28.09	<=30	Pass
		Inner_Full	20.44	20.29	23.38	25.19	25.04	28.13	<=30	Pass
		Inner_1RB_Left	20.38	20.26	23.33	25.13	25.01	28.08	<=30	Pass
		Inner_1RB_Right	20.65	20.20	23.44	25.40	24.95	28.19	<=30	Pass
CP-OFDM 16 QAM	3705	Edge_1RB_Left	19.51	19.80	22.67	24.26	24.55	27.42	<=30	Pass
		Edge_1RB_Right	19.24	19.76	22.52	23.99	24.51	27.27	<=30	Pass
		Outer_Full	20.01	20.29	23.16	24.76	25.04	27.91	<=30	Pass
		Inner_Full	20.11	20.25	23.19	24.86	25.00	27.94	<=30	Pass
		Inner_1RB_Left	20.06	20.25	23.16	24.81	25.00	27.92	<=30	Pass
		Inner_1RB_Right	20.13	20.18	23.17	24.88	24.93	27.92	<=30	Pass
	3840	Edge_1RB_Left	19.76	19.94	22.86	24.51	24.69	27.61	<=30	Pass
		Edge_1RB_Right	19.76	19.86	22.82	24.51	24.61	27.57	<=30	Pass



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		Outer_Full	20.46	20.37	23.42	25.21	25.12	28.18	<=30	Pass
		Inner_Full	20.30	20.37	23.34	25.05	25.12	28.10	<=30	Pass
		Inner_1RB_Left	20.36	20.42	23.40	25.11	25.17	28.15	<=30	Pass
		Inner_1RB_Right	20.51	20.47	23.50	25.26	25.22	28.25	<=30	Pass
	3975	Edge_1RB_Left	19.70	19.86	22.79	24.45	24.61	27.54	<=30	Pass
		Edge_1RB_Right	19.97	19.80	22.89	24.72	24.55	27.65	<=30	Pass
		Outer_Full	20.34	20.34	23.35	25.09	25.09	28.10	<=30	Pass
		Inner_Full	20.34	20.24	23.30	25.09	24.99	28.05	<=30	Pass
		Inner_1RB_Left	20.39	20.07	23.24	25.14	24.82	27.99	<=30	Pass
		Inner_1RB_Right	20.48	20.35	23.43	25.23	25.10	28.18	<=30	Pass
CP-OFDM 64 QAM	3705	Edge_1RB_Left	19.55	19.60	22.59	24.30	24.35	27.34	<=30	Pass
		Edge_1RB_Right	19.58	19.64	22.62	24.33	24.39	27.37	<=30	Pass
		Outer_Full	19.51	19.80	22.66	24.26	24.55	27.42	<=30	Pass
		Inner_Full	19.41	19.73	22.58	24.16	24.48	27.33	<=30	Pass
		Inner_1RB_Left	19.46	19.71	22.60	24.21	24.46	27.35	<=30	Pass
		Inner_1RB_Right	19.44	19.73	22.60	24.19	24.48	27.35	<=30	Pass
	3840	Edge_1RB_Left	19.82	20.03	22.94	24.57	24.78	27.69	<=30	Pass
		Edge_1RB_Right	19.96	19.97	22.98	24.71	24.72	27.73	<=30	Pass
		Outer_Full	19.89	19.94	22.93	24.64	24.69	27.68	<=30	Pass
		Inner_Full	19.87	19.98	22.93	24.62	24.73	27.69	<=30	Pass
		Inner_1RB_Left	19.79	19.79	22.80	24.54	24.54	27.55	<=30	Pass
		Inner_1RB_Right	19.81	19.74	22.78	24.56	24.49	27.54	<=30	Pass
	3975	Edge_1RB_Left	19.88	19.82	22.86	24.63	24.57	27.61	<=30	Pass
		Edge_1RB_Right	19.86	19.83	22.85	24.61	24.58	27.61	<=30	Pass
		Outer_Full	19.81	19.79	22.81	24.56	24.54	27.56	<=30	Pass
		Inner_Full	20.01	19.79	22.92	24.76	24.54	27.66	<=30	Pass
		Inner_1RB_Left	19.62	19.94	22.79	24.37	24.69	27.54	<=30	Pass
		Inner_1RB_Right	19.94	19.69	22.83	24.69	24.44	27.58	<=30	Pass
CP-OFDM 256 QAM	3705	Edge_1RB_Left	16.59	16.74	19.68	21.34	21.49	24.43	<=30	Pass
		Edge_1RB_Right	16.52	16.56	19.55	21.27	21.31	24.30	<=30	Pass
		Outer_Full	16.53	16.73	19.64	21.28	21.48	24.39	<=30	Pass
		Inner_Full	16.56	16.81	19.70	21.31	21.56	24.45	<=30	Pass
		Inner_1RB_Left	16.62	16.63	19.63	21.37	21.38	24.39	<=30	Pass
		Inner_1RB_Right	16.57	16.72	19.66	21.32	21.47	24.41	<=30	Pass
	3840	Edge_1RB_Left	16.79	16.83	19.82	21.54	21.58	24.57	<=30	Pass
		Edge_1RB_Right	16.92	16.77	19.86	21.67	21.52	24.61	<=30	Pass
		Outer_Full	16.85	16.88	19.87	21.60	21.63	24.63	<=30	Pass



3975	Inner_Full	16.82	17.00	19.92	21.57	21.75	24.67	<=30	Pass
	Inner_1RB_Left	16.94	17.11	20.03	21.69	21.86	24.79	<=30	Pass
	Inner_1RB_Right	16.95	16.85	19.91	21.70	21.60	24.66	<=30	Pass
	Edge_1RB_Left	16.61	16.73	19.68	21.36	21.48	24.43	<=30	Pass
	Edge_1RB_Right	17.09	16.88	20.00	21.84	21.63	24.75	<=30	Pass
	Outer_Full	16.99	16.82	19.92	21.74	21.57	24.67	<=30	Pass
	Inner_Full	16.90	16.77	19.85	21.65	21.52	24.60	<=30	Pass
	Inner_1RB_Left	16.73	16.81	19.78	21.48	21.56	24.53	<=30	Pass
	Inner_1RB_Right	16.77	16.75	19.77	21.52	21.50	24.52	<=30	Pass

Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;

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

1.1.2 30k_MIMO_15MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 15MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3707.52	Edge_1RB_Left	19.90	20.07	23.00	24.65	24.82	27.75	<=30	Pass
		Edge_1RB_Right	19.83	19.83	22.84	24.58	24.58	27.59	<=30	Pass
		Outer_Full	20.19	20.33	23.27	24.94	25.08	28.02	<=30	Pass
		Inner_Full	20.25	20.41	23.34	25.00	25.16	28.09	<=30	Pass
		Inner_1RB_Left	20.39	20.53	23.47	25.14	25.28	28.22	<=30	Pass
		Inner_1RB_Right	20.36	20.27	23.33	25.11	25.02	28.08	<=30	Pass
	3840	Edge_1RB_Left	20.14	20.16	23.16	24.89	24.91	27.91	<=30	Pass
		Edge_1RB_Right	20.16	20.16	23.17	24.91	24.91	27.92	<=30	Pass
		Outer_Full	20.42	20.61	23.52	25.17	25.36	28.28	<=30	Pass
		Inner_Full	20.54	20.60	23.58	25.29	25.35	28.33	<=30	Pass
		Inner_1RB_Left	20.76	20.52	23.66	25.51	25.27	28.40	<=30	Pass
		Inner_1RB_Right	20.78	20.69	23.75	25.53	25.44	28.50	<=30	Pass
	3972.48	Edge_1RB_Left	20.02	20.17	23.11	24.77	24.92	27.86	<=30	Pass
		Edge_1RB_Right	20.14	20.00	23.08	24.89	24.75	27.83	<=30	Pass
		Outer_Full	20.52	20.51	23.52	25.27	25.26	28.28	<=30	Pass
		Inner_Full	20.48	20.46	23.48	25.23	25.21	28.23	<=30	Pass
		Inner_1RB_Left	20.67	20.57	23.63	25.42	25.32	28.38	<=30	Pass
		Inner_1RB_Right	20.56	20.46	23.52	25.31	25.21	28.27	<=30	Pass
CP-OFDM 16 QAM	3707.52	Edge_1RB_Left	19.73	19.97	22.86	24.48	24.72	27.61	<=30	Pass
		Edge_1RB_Right	19.70	19.90	22.81	24.45	24.65	27.56	<=30	Pass



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		Outer_Full	20.24	20.34	23.30	24.99	25.09	28.05	<=30	Pass
		Inner_Full	20.26	20.45	23.37	25.01	25.20	28.12	<=30	Pass
		Inner_1RB_Left	20.14	20.54	23.35	24.89	25.29	28.10	<=30	Pass
		Inner_1RB_Right	20.25	20.43	23.35	25.00	25.18	28.10	<=30	Pass
	3840	Edge_1RB_Left	19.97	20.09	23.04	24.72	24.84	27.79	<=30	Pass
		Edge_1RB_Right	20.11	20.07	23.10	24.86	24.82	27.85	<=30	Pass
		Outer_Full	20.48	20.68	23.59	25.23	25.43	28.34	<=30	Pass
		Inner_Full	20.54	20.58	23.57	25.29	25.33	28.32	<=30	Pass
		Inner_1RB_Left	20.55	20.58	23.58	25.30	25.33	28.33	<=30	Pass
	3972.48	Inner_1RB_Right	20.79	20.61	23.71	25.54	25.36	28.46	<=30	Pass
		Edge_1RB_Left	19.90	20.00	22.96	24.65	24.75	27.71	<=30	Pass
		Edge_1RB_Right	20.09	20.13	23.13	24.84	24.88	27.87	<=30	Pass
		Outer_Full	20.56	20.48	23.53	25.31	25.23	28.28	<=30	Pass
		Inner_Full	20.41	20.64	23.54	25.16	25.39	28.29	<=30	Pass
	CP-OFDM 64 QAM	3707.52	Inner_1RB_Left	20.56	20.64	23.61	25.31	25.39	28.36	<=30
Inner_1RB_Right			20.49	20.70	23.61	25.24	25.45	28.36	<=30	Pass
Edge_1RB_Left			19.77	19.86	22.83	24.52	24.61	27.58	<=30	Pass
Edge_1RB_Right			19.71	19.63	22.68	24.46	24.38	27.43	<=30	Pass
Outer_Full			19.67	19.87	22.78	24.42	24.62	27.53	<=30	Pass
Inner_Full			19.67	19.98	22.84	24.42	24.73	27.59	<=30	Pass
3840		Inner_1RB_Left	19.64	19.92	22.80	24.39	24.67	27.54	<=30	Pass
		Inner_1RB_Right	19.74	19.96	22.86	24.49	24.71	27.61	<=30	Pass
		Edge_1RB_Left	19.80	20.02	22.92	24.55	24.77	27.67	<=30	Pass
		Edge_1RB_Right	19.87	20.26	23.08	24.62	25.01	27.83	<=30	Pass
		Outer_Full	20.04	20.19	23.13	24.79	24.94	27.88	<=30	Pass
		Inner_Full	20.09	20.17	23.14	24.84	24.92	27.89	<=30	Pass
3972.48		Inner_1RB_Left	20.08	20.04	23.07	24.83	24.79	27.82	<=30	Pass
		Inner_1RB_Right	20.17	20.01	23.10	24.92	24.76	27.85	<=30	Pass
		Edge_1RB_Left	20.12	20.13	23.13	24.87	24.88	27.89	<=30	Pass
		Edge_1RB_Right	19.99	19.99	23.00	24.74	24.74	27.75	<=30	Pass
		Outer_Full	19.98	19.99	23.00	24.73	24.74	27.75	<=30	Pass
		Inner_Full	20.06	20.08	23.08	24.81	24.83	27.83	<=30	Pass
CP-OFDM 256 QAM	3707.52	Inner_1RB_Left	20.10	20.16	23.14	24.85	24.91	27.89	<=30	Pass
		Inner_1RB_Right	20.00	19.99	23.01	24.75	24.74	27.76	<=30	Pass
		Edge_1RB_Left	16.70	17.00	19.86	21.45	21.75	24.61	<=30	Pass
	3840	Edge_1RB_Right	16.68	16.74	19.72	21.43	21.49	24.47	<=30	Pass
		Outer_Full	16.71	16.89	19.81	21.46	21.64	24.56	<=30	Pass



		Inner_Full	16.75	16.86	19.81	21.50	21.61	24.57	<=30	Pass
		Inner_1RB_Left	16.91	16.76	19.85	21.66	21.51	24.60	<=30	Pass
		Inner_1RB_Right	16.72	16.92	19.83	21.47	21.67	24.58	<=30	Pass
	3840	Edge_1RB_Left	16.93	17.31	20.13	21.68	22.06	24.88	<=30	Pass
		Edge_1RB_Right	17.08	17.15	20.13	21.83	21.90	24.88	<=30	Pass
		Outer_Full	17.08	17.20	20.15	21.83	21.95	24.90	<=30	Pass
		Inner_Full	17.04	17.18	20.12	21.79	21.93	24.87	<=30	Pass
		Inner_1RB_Left	16.86	17.03	19.96	21.61	21.78	24.71	<=30	Pass
		Inner_1RB_Right	17.20	16.98	20.10	21.95	21.73	24.85	<=30	Pass
	3972.48	Edge_1RB_Left	17.14	17.21	20.18	21.89	21.96	24.94	<=30	Pass
		Edge_1RB_Right	17.06	17.06	20.07	21.81	21.81	24.82	<=30	Pass
		Outer_Full	17.01	17.03	20.03	21.76	21.78	24.78	<=30	Pass
		Inner_Full	17.01	17.10	20.06	21.76	21.85	24.82	<=30	Pass
		Inner_1RB_Left	17.01	17.17	20.10	21.76	21.92	24.85	<=30	Pass
		Inner_1RB_Right	17.04	16.95	20.00	21.79	21.70	24.76	<=30	Pass
<p>Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;</p> <p>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</p>										

1.1.3 30k_MIMO_20MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 20MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3710.01	Edge_1RB_Left	19.72	19.98	22.86	24.47	24.73	27.61	<=30	Pass
		Edge_1RB_Right	19.68	19.73	22.71	24.43	24.48	27.47	<=30	Pass
		Outer_Full	20.25	20.42	23.35	25.00	25.17	28.10	<=30	Pass
		Inner_Full	20.22	20.43	23.34	24.97	25.18	28.09	<=30	Pass
		Inner_1RB_Left	20.57	20.42	23.51	25.32	25.17	28.26	<=30	Pass
		Inner_1RB_Right	20.42	20.28	23.36	25.17	25.03	28.11	<=30	Pass
	3840	Edge_1RB_Left	19.85	19.94	22.91	24.60	24.69	27.66	<=30	Pass
		Edge_1RB_Right	20.05	20.02	23.05	24.80	24.77	27.80	<=30	Pass
		Outer_Full	20.55	20.45	23.51	25.30	25.20	28.26	<=30	Pass
		Inner_Full	20.55	20.67	23.62	25.30	25.42	28.37	<=30	Pass
		Inner_1RB_Left	20.48	20.70	23.60	25.23	25.45	28.35	<=30	Pass
		Inner_1RB_Right	20.60	20.54	23.58	25.35	25.29	28.33	<=30	Pass
	3969.99	Edge_1RB_Left	20.21	20.03	23.13	24.96	24.78	27.88	<=30	Pass
		Edge_1RB_Right	20.15	20.06	23.11	24.90	24.81	27.87	<=30	Pass



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		Outer_Full	20.57	20.57	23.58	25.32	25.32	28.33	<=30	Pass
		Inner_Full	20.55	20.57	23.57	25.30	25.32	28.32	<=30	Pass
		Inner_1RB_Left	20.80	20.63	23.73	25.55	25.38	28.48	<=30	Pass
		Inner_1RB_Right	20.51	20.53	23.53	25.26	25.28	28.28	<=30	Pass
CP-OFDM 16 QAM	3710.01	Edge_1RB_Left	19.78	20.00	22.90	24.53	24.75	27.65	<=30	Pass
		Edge_1RB_Right	19.77	19.85	22.82	24.52	24.60	27.57	<=30	Pass
		Outer_Full	20.19	20.42	23.32	24.94	25.17	28.07	<=30	Pass
		Inner_Full	20.21	20.40	23.31	24.96	25.15	28.07	<=30	Pass
		Inner_1RB_Left	20.38	20.28	23.34	25.13	25.03	28.09	<=30	Pass
		Inner_1RB_Right	20.17	20.23	23.21	24.92	24.98	27.96	<=30	Pass
	3840	Edge_1RB_Left	20.09	20.22	23.17	24.84	24.97	27.92	<=30	Pass
		Edge_1RB_Right	20.23	20.14	23.20	24.98	24.89	27.95	<=30	Pass
		Outer_Full	20.61	20.68	23.66	25.36	25.43	28.41	<=30	Pass
		Inner_Full	20.52	20.68	23.61	25.27	25.43	28.36	<=30	Pass
		Inner_1RB_Left	20.44	20.69	23.58	25.19	25.44	28.33	<=30	Pass
		Inner_1RB_Right	20.56	20.61	23.59	25.31	25.36	28.35	<=30	Pass
	3969.99	Edge_1RB_Left	19.91	20.23	23.08	24.66	24.98	27.83	<=30	Pass
		Edge_1RB_Right	19.99	20.05	23.03	24.74	24.80	27.78	<=30	Pass
		Outer_Full	20.53	20.57	23.56	25.28	25.32	28.31	<=30	Pass
		Inner_Full	20.48	20.49	23.50	25.23	25.24	28.25	<=30	Pass
		Inner_1RB_Left	20.54	20.62	23.59	25.29	25.37	28.34	<=30	Pass
		Inner_1RB_Right	20.52	20.79	23.66	25.27	25.54	28.42	<=30	Pass
CP-OFDM 64 QAM	3710.01	Edge_1RB_Left	19.78	20.09	22.95	24.53	24.84	27.70	<=30	Pass
		Edge_1RB_Right	19.83	19.81	22.83	24.58	24.56	27.58	<=30	Pass
		Outer_Full	19.67	19.87	22.78	24.42	24.62	27.53	<=30	Pass
		Inner_Full	19.67	19.94	22.81	24.42	24.69	27.57	<=30	Pass
		Inner_1RB_Left	19.99	19.88	22.95	24.74	24.63	27.70	<=30	Pass
		Inner_1RB_Right	19.62	19.90	22.77	24.37	24.65	27.52	<=30	Pass
	3840	Edge_1RB_Left	19.94	20.05	23.01	24.69	24.80	27.76	<=30	Pass
		Edge_1RB_Right	20.03	20.09	23.07	24.78	24.84	27.82	<=30	Pass
		Outer_Full	20.03	20.17	23.11	24.78	24.92	27.86	<=30	Pass
		Inner_Full	20.03	20.16	23.11	24.78	24.91	27.86	<=30	Pass
		Inner_1RB_Left	20.02	20.07	23.06	24.77	24.82	27.81	<=30	Pass
		Inner_1RB_Right	20.01	20.19	23.11	24.76	24.94	27.86	<=30	Pass
	3969.99	Edge_1RB_Left	20.15	20.12	23.15	24.90	24.87	27.90	<=30	Pass
		Edge_1RB_Right	19.91	20.08	23.01	24.66	24.83	27.76	<=30	Pass
		Outer_Full	20.03	20.04	23.04	24.78	24.79	27.80	<=30	Pass



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		Inner_Full	20.00	20.16	23.09	24.75	24.91	27.84	<=30	Pass
		Inner_1RB_Left	20.27	20.39	23.34	25.02	25.14	28.09	<=30	Pass
		Inner_1RB_Right	20.05	19.97	23.02	24.80	24.72	27.77	<=30	Pass
CP-OFDM 256 QAM	3710.01	Edge_1RB_Left	16.78	17.01	19.90	21.53	21.76	24.66	<=30	Pass
		Edge_1RB_Right	16.70	16.87	19.80	21.45	21.62	24.55	<=30	Pass
		Outer_Full	16.77	16.87	19.83	21.52	21.62	24.58	<=30	Pass
		Inner_Full	16.84	16.90	19.88	21.59	21.65	24.63	<=30	Pass
		Inner_1RB_Left	16.74	16.86	19.81	21.49	21.61	24.56	<=30	Pass
		Inner_1RB_Right	16.52	16.71	19.63	21.27	21.46	24.38	<=30	Pass
	3840	Edge_1RB_Left	16.83	17.04	19.95	21.58	21.79	24.70	<=30	Pass
		Edge_1RB_Right	16.92	17.07	20.01	21.67	21.82	24.76	<=30	Pass
		Outer_Full	17.06	17.22	20.15	21.81	21.97	24.90	<=30	Pass
		Inner_Full	17.03	17.18	20.12	21.78	21.93	24.87	<=30	Pass
		Inner_1RB_Left	16.88	17.04	19.97	21.63	21.79	24.72	<=30	Pass
		Inner_1RB_Right	16.98	17.01	20.01	21.73	21.76	24.76	<=30	Pass
	3969.99	Edge_1RB_Left	16.99	17.24	20.13	21.74	21.99	24.88	<=30	Pass
		Edge_1RB_Right	17.11	16.93	20.03	21.86	21.68	24.78	<=30	Pass
		Outer_Full	16.99	17.02	20.02	21.74	21.77	24.77	<=30	Pass
		Inner_Full	16.96	17.08	20.03	21.71	21.83	24.78	<=30	Pass
		Inner_1RB_Left	17.36	17.13	20.26	22.11	21.88	25.01	<=30	Pass
		Inner_1RB_Right	17.02	17.02	20.03	21.77	21.77	24.78	<=30	Pass

Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;

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

1.1.4 30k_MIMO_30MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 30MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3715.02	Edge_1RB_Left	19.78	19.99	22.90	24.53	24.74	27.65	<=30	Pass
		Edge_1RB_Right	19.83	19.75	22.80	24.58	24.50	27.55	<=30	Pass
		Outer_Full	20.16	20.31	23.24	24.91	25.06	28.00	<=30	Pass
		Inner_Full	20.11	20.37	23.25	24.86	25.12	28.00	<=30	Pass
		Inner_1RB_Left	20.26	20.38	23.33	25.01	25.13	28.08	<=30	Pass
		Inner_1RB_Right	20.27	20.38	23.34	25.02	25.13	28.09	<=30	Pass
	3840	Edge_1RB_Left	19.90	20.04	22.98	24.65	24.79	27.73	<=30	Pass
		Edge_1RB_Right	20.16	20.11	23.15	24.91	24.86	27.90	<=30	Pass



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		Outer_Full	20.53	20.40	23.48	25.28	25.15	28.23	<=30	Pass
		Inner_Full	20.48	20.64	23.57	25.23	25.39	28.32	<=30	Pass
		Inner_1RB_Left	20.31	20.64	23.49	25.06	25.39	28.24	<=30	Pass
		Inner_1RB_Right	20.75	20.55	23.66	25.50	25.30	28.41	<=30	Pass
	3964.98	Edge_1RB_Left	20.38	20.21	23.31	25.13	24.96	28.06	<=30	Pass
		Edge_1RB_Right	20.44	20.11	23.29	25.19	24.86	28.04	<=30	Pass
		Outer_Full	20.66	20.60	23.64	25.41	25.35	28.39	<=30	Pass
		Inner_Full	20.66	20.70	23.69	25.41	25.45	28.44	<=30	Pass
		Inner_1RB_Left	20.92	20.90	23.92	25.67	25.65	28.67	<=30	Pass
		Inner_1RB_Right	20.55	20.52	23.55	25.30	25.27	28.30	<=30	Pass
CP-OFDM 16 QAM	3715.02	Edge_1RB_Left	19.82	19.97	22.91	24.57	24.72	27.66	<=30	Pass
		Edge_1RB_Right	19.79	19.93	22.87	24.54	24.68	27.62	<=30	Pass
		Outer_Full	20.13	20.30	23.22	24.88	25.05	27.98	<=30	Pass
		Inner_Full	20.08	20.28	23.19	24.83	25.03	27.94	<=30	Pass
		Inner_1RB_Left	20.19	20.48	23.34	24.94	25.23	28.10	<=30	Pass
		Inner_1RB_Right	20.09	20.20	23.16	24.84	24.95	27.91	<=30	Pass
	3840	Edge_1RB_Left	19.65	20.21	22.95	24.40	24.96	27.70	<=30	Pass
		Edge_1RB_Right	20.23	20.21	23.23	24.98	24.96	27.98	<=30	Pass
		Outer_Full	20.56	20.72	23.65	25.31	25.47	28.40	<=30	Pass
		Inner_Full	20.51	20.65	23.59	25.26	25.40	28.34	<=30	Pass
		Inner_1RB_Left	20.54	20.65	23.61	25.29	25.40	28.36	<=30	Pass
		Inner_1RB_Right	20.57	20.60	23.59	25.32	25.35	28.35	<=30	Pass
	3964.98	Edge_1RB_Left	20.49	20.29	23.40	25.24	25.04	28.15	<=30	Pass
		Edge_1RB_Right	20.22	20.05	23.15	24.97	24.80	27.90	<=30	Pass
		Outer_Full	20.70	20.71	23.72	25.45	25.46	28.47	<=30	Pass
		Inner_Full	20.67	20.67	23.68	25.42	25.42	28.43	<=30	Pass
		Inner_1RB_Left	20.93	20.73	23.84	25.68	25.48	28.59	<=30	Pass
		Inner_1RB_Right	20.72	20.61	23.68	25.47	25.36	28.43	<=30	Pass
CP-OFDM 64 QAM	3715.02	Edge_1RB_Left	19.67	20.00	22.85	24.42	24.75	27.60	<=30	Pass
		Edge_1RB_Right	19.69	19.68	22.70	24.44	24.43	27.45	<=30	Pass
		Outer_Full	19.68	19.83	22.77	24.43	24.58	27.52	<=30	Pass
		Inner_Full	19.59	19.82	22.72	24.34	24.57	27.47	<=30	Pass
		Inner_1RB_Left	19.85	20.05	22.96	24.60	24.80	27.71	<=30	Pass
		Inner_1RB_Right	19.89	19.94	22.92	24.64	24.69	27.68	<=30	Pass
	3840	Edge_1RB_Left	19.90	20.08	23.00	24.65	24.83	27.75	<=30	Pass
		Edge_1RB_Right	19.92	20.15	23.05	24.67	24.90	27.80	<=30	Pass
		Outer_Full	20.01	20.17	23.10	24.76	24.92	27.85	<=30	Pass



CP-OFDM 256 QAM	3964.98	Inner_Full	19.96	20.17	23.08	24.71	24.92	27.83	<=30	Pass
		Inner_1RB_Left	19.84	20.15	23.01	24.59	24.90	27.76	<=30	Pass
		Inner_1RB_Right	20.18	20.01	23.11	24.93	24.76	27.86	<=30	Pass
	3715.02	Edge_1RB_Left	20.54	20.32	23.44	25.29	25.07	28.19	<=30	Pass
			Edge_1RB_Right	20.17	20.03	23.11	24.92	24.78	27.86	<=30
		Outer_Full	20.21	20.20	23.21	24.96	24.95	27.97	<=30	Pass
		Inner_Full	20.17	20.18	23.18	24.92	24.93	27.94	<=30	Pass
		Inner_1RB_Left	20.46	20.17	23.33	25.21	24.92	28.08	<=30	Pass
		Inner_1RB_Right	20.16	20.15	23.17	24.91	24.90	27.92	<=30	Pass
	3840	Edge_1RB_Left	16.68	17.09	19.90	21.43	21.84	24.65	<=30	Pass
			Edge_1RB_Right	16.81	16.82	19.82	21.56	21.57	24.58	<=30
		Outer_Full	16.66	16.82	19.75	21.41	21.57	24.50	<=30	Pass
		Inner_Full	16.66	16.85	19.76	21.41	21.60	24.52	<=30	Pass
		Inner_1RB_Left	16.90	16.96	19.94	21.65	21.71	24.69	<=30	Pass
		Inner_1RB_Right	16.71	16.78	19.76	21.46	21.53	24.51	<=30	Pass
	3964.98	Edge_1RB_Left	16.84	17.04	19.95	21.59	21.79	24.70	<=30	Pass
			Edge_1RB_Right	17.05	17.08	20.08	21.80	21.83	24.83	<=30
		Outer_Full	17.06	17.17	20.13	21.81	21.92	24.88	<=30	Pass
Inner_Full		17.01	17.11	20.07	21.76	21.86	24.82	<=30	Pass	
Inner_1RB_Left		16.93	16.98	19.97	21.68	21.73	24.72	<=30	Pass	
Inner_1RB_Right		16.96	16.94	19.96	21.71	21.69	24.71	<=30	Pass	
3964.98	Edge_1RB_Left	17.51	17.27	20.40	22.26	22.02	25.15	<=30	Pass	
		Edge_1RB_Right	17.09	16.98	20.04	21.84	21.73	24.80	<=30	Pass
	Outer_Full	17.25	17.21	20.24	22.00	21.96	24.99	<=30	Pass	
	Inner_Full	17.14	17.10	20.13	21.89	21.85	24.88	<=30	Pass	
	Inner_1RB_Left	17.40	17.37	20.39	22.15	22.12	25.15	<=30	Pass	
	Inner_1RB_Right	17.14	17.19	20.18	21.89	21.94	24.93	<=30	Pass	

Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;

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

1.1.5 30k_MIMO_40MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 40MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3720	Edge_1RB_Left	20.05	20.13	23.10	24.80	24.88	27.85	<=30	Pass
		Edge_1RB_Right	19.98	20.03	23.01	24.73	24.78	27.77	<=30	Pass



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		Outer_Full	20.21	20.40	23.32	24.96	25.15	28.07	<=30	Pass
		Inner_Full	20.24	20.36	23.31	24.99	25.11	28.06	<=30	Pass
		Inner_1RB_Left	20.54	20.60	23.58	25.29	25.35	28.33	<=30	Pass
		Inner_1RB_Right	20.54	20.49	23.52	25.29	25.24	28.28	<=30	Pass
	3840	Edge_1RB_Left	19.99	20.12	23.07	24.74	24.87	27.82	<=30	Pass
		Edge_1RB_Right	20.07	20.16	23.13	24.82	24.91	27.88	<=30	Pass
		Outer_Full	20.50	20.60	23.56	25.25	25.35	28.31	<=30	Pass
		Inner_Full	20.56	20.63	23.60	25.31	25.38	28.36	<=30	Pass
		Inner_1RB_Left	20.67	20.65	23.68	25.42	25.40	28.42	<=30	Pass
	3960	Inner_1RB_Right	20.59	20.56	23.59	25.34	25.31	28.34	<=30	Pass
		Edge_1RB_Left	20.32	20.54	23.44	25.07	25.29	28.19	<=30	Pass
		Edge_1RB_Right	20.06	20.09	23.08	24.81	24.84	27.84	<=30	Pass
		Outer_Full	20.67	20.53	23.61	25.42	25.28	28.36	<=30	Pass
		Inner_Full	20.66	20.61	23.65	25.41	25.36	28.40	<=30	Pass
	CP-OFDM 16 QAM	3720	Inner_1RB_Left	20.80	20.62	23.72	25.55	25.37	28.47	<=30
Inner_1RB_Right			20.51	20.50	23.51	25.26	25.25	28.27	<=30	Pass
Edge_1RB_Left			19.72	20.16	22.95	24.47	24.91	27.71	<=30	Pass
Edge_1RB_Right			19.95	19.93	22.95	24.70	24.68	27.70	<=30	Pass
Outer_Full			20.26	20.44	23.36	25.01	25.19	28.11	<=30	Pass
Inner_Full			20.21	20.36	23.29	24.96	25.11	28.05	<=30	Pass
3840		Inner_1RB_Left	20.47	20.70	23.60	25.22	25.45	28.35	<=30	Pass
		Inner_1RB_Right	20.48	20.59	23.54	25.23	25.34	28.30	<=30	Pass
		Edge_1RB_Left	19.99	20.28	23.15	24.74	25.03	27.90	<=30	Pass
		Edge_1RB_Right	20.11	20.45	23.29	24.86	25.20	28.04	<=30	Pass
		Outer_Full	20.56	20.69	23.63	25.31	25.44	28.39	<=30	Pass
		Inner_Full	20.50	20.61	23.57	25.25	25.36	28.32	<=30	Pass
3960		Inner_1RB_Left	20.55	20.62	23.60	25.30	25.37	28.35	<=30	Pass
		Inner_1RB_Right	20.55	20.75	23.66	25.30	25.50	28.41	<=30	Pass
		Edge_1RB_Left	20.40	20.07	23.25	25.15	24.82	28.00	<=30	Pass
		Edge_1RB_Right	20.05	20.23	23.15	24.80	24.98	27.90	<=30	Pass
		Outer_Full	20.62	20.64	23.64	25.37	25.39	28.39	<=30	Pass
		Inner_Full	20.62	20.59	23.61	25.37	25.34	28.37	<=30	Pass
CP-OFDM 64 QAM	3720	Inner_1RB_Left	20.67	20.65	23.67	25.42	25.40	28.42	<=30	Pass
		Inner_1RB_Right	20.51	20.58	23.56	25.26	25.33	28.31	<=30	Pass
		Edge_1RB_Left	19.91	20.16	23.05	24.66	24.91	27.80	<=30	Pass
		Edge_1RB_Right	20.11	20.03	23.08	24.86	24.78	27.83	<=30	Pass
		Outer_Full	19.82	19.93	22.88	24.57	24.68	27.64	<=30	Pass



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		Inner_Full	19.81	19.83	22.83	24.56	24.58	27.58	<=30	Pass	
		Inner_1RB_Left	20.13	20.07	23.11	24.88	24.82	27.86	<=30	Pass	
		Inner_1RB_Right	19.84	20.05	22.95	24.59	24.80	27.71	<=30	Pass	
	3840	Edge_1RB_Left	19.91	20.20	23.07	24.66	24.95	27.82	<=30	Pass	
		Edge_1RB_Right	20.09	20.06	23.09	24.84	24.81	27.84	<=30	Pass	
		Outer_Full	20.02	20.14	23.09	24.77	24.89	27.84	<=30	Pass	
		Inner_Full	20.01	20.11	23.07	24.76	24.86	27.82	<=30	Pass	
		Inner_1RB_Left	20.07	20.20	23.15	24.82	24.95	27.90	<=30	Pass	
		Inner_1RB_Right	20.19	20.06	23.13	24.94	24.81	27.89	<=30	Pass	
	3960	Edge_1RB_Left	20.32	19.88	23.12	25.07	24.63	27.87	<=30	Pass	
		Edge_1RB_Right	20.10	20.05	23.08	24.85	24.80	27.84	<=30	Pass	
		Outer_Full	20.17	20.14	23.17	24.92	24.89	27.92	<=30	Pass	
		Inner_Full	20.14	20.07	23.11	24.89	24.82	27.87	<=30	Pass	
		Inner_1RB_Left	20.53	19.88	23.23	25.28	24.63	27.98	<=30	Pass	
		Inner_1RB_Right	20.36	20.13	23.26	25.11	24.88	28.01	<=30	Pass	
CP-OFDM 256 QAM	3720	Edge_1RB_Left	16.91	17.21	20.07	21.66	21.96	24.82	<=30	Pass	
		Edge_1RB_Right	16.96	16.90	19.94	21.71	21.65	24.69	<=30	Pass	
		Outer_Full	16.75	16.88	19.83	21.50	21.63	24.58	<=30	Pass	
		Inner_Full	16.74	16.91	19.84	21.49	21.66	24.59	<=30	Pass	
		Inner_1RB_Left	17.00	17.29	20.16	21.75	22.04	24.91	<=30	Pass	
		Inner_1RB_Right	16.75	16.98	19.88	21.50	21.73	24.63	<=30	Pass	
	3840	Edge_1RB_Left	17.11	17.13	20.13	21.86	21.88	24.88	<=30	Pass	
		Edge_1RB_Right	17.12	16.89	20.02	21.87	21.64	24.77	<=30	Pass	
		Outer_Full	16.98	17.15	20.08	21.73	21.90	24.83	<=30	Pass	
		Inner_Full	17.06	17.17	20.13	21.81	21.92	24.88	<=30	Pass	
		Inner_1RB_Left	16.81	17.19	20.01	21.56	21.94	24.76	<=30	Pass	
		Inner_1RB_Right	17.23	17.32	20.28	21.98	22.07	25.04	<=30	Pass	
	3960	Edge_1RB_Left	17.15	17.17	20.17	21.90	21.92	24.92	<=30	Pass	
		Edge_1RB_Right	17.34	17.12	20.24	22.09	21.87	24.99	<=30	Pass	
		Outer_Full	17.17	17.06	20.13	21.92	21.81	24.88	<=30	Pass	
		Inner_Full	17.16	17.12	20.15	21.91	21.87	24.90	<=30	Pass	
		Inner_1RB_Left	17.40	17.07	20.25	22.15	21.82	25.00	<=30	Pass	
		Inner_1RB_Right	17.30	17.18	20.25	22.05	21.93	25.00	<=30	Pass	
	<p>Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;</p> <p>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</p>										



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1.1.6 30k_MIMO_50MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 50MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3725.01	Edge_1RB_Left	19.58	19.72	22.66	24.33	24.47	27.41	<=30	Pass
		Edge_1RB_Right	19.61	19.80	22.71	24.36	24.55	27.47	<=30	Pass
		Outer_Full	20.10	20.09	23.10	24.85	24.84	27.86	<=30	Pass
		Inner_Full	20.07	20.07	23.08	24.82	24.82	27.83	<=30	Pass
		Inner_1RB_Left	20.12	20.35	23.25	24.87	25.10	28.00	<=30	Pass
		Inner_1RB_Right	20.19	20.23	23.22	24.94	24.98	27.97	<=30	Pass
	3840	Edge_1RB_Left	19.67	19.73	22.71	24.42	24.48	27.46	<=30	Pass
		Edge_1RB_Right	19.96	20.01	23.00	24.71	24.76	27.75	<=30	Pass
		Outer_Full	20.39	20.45	23.43	25.14	25.20	28.18	<=30	Pass
		Inner_Full	20.34	20.55	23.46	25.09	25.30	28.21	<=30	Pass
		Inner_1RB_Left	20.28	20.47	23.38	25.03	25.22	28.14	<=30	Pass
		Inner_1RB_Right	20.48	20.53	23.52	25.23	25.28	28.27	<=30	Pass
	3954.99	Edge_1RB_Left	20.10	19.86	22.99	24.85	24.61	27.74	<=30	Pass
		Edge_1RB_Right	20.04	19.94	23.00	24.79	24.69	27.75	<=30	Pass
		Outer_Full	20.57	20.57	23.58	25.32	25.32	28.33	<=30	Pass
		Inner_Full	20.67	20.46	23.58	25.42	25.21	28.33	<=30	Pass
		Inner_1RB_Left	20.76	20.64	23.71	25.51	25.39	28.46	<=30	Pass
		Inner_1RB_Right	20.58	20.45	23.53	25.33	25.20	28.28	<=30	Pass
CP-OFDM 16 QAM	3725.01	Edge_1RB_Left	19.53	19.72	22.63	24.28	24.47	27.39	<=30	Pass
		Edge_1RB_Right	19.70	19.94	22.83	24.45	24.69	27.58	<=30	Pass
		Outer_Full	20.05	20.17	23.12	24.80	24.92	27.87	<=30	Pass
		Inner_Full	20.04	20.10	23.08	24.79	24.85	27.83	<=30	Pass
		Inner_1RB_Left	20.15	20.30	23.24	24.90	25.05	27.99	<=30	Pass
		Inner_1RB_Right	20.07	20.04	23.07	24.82	24.79	27.82	<=30	Pass
	3840	Edge_1RB_Left	19.84	19.79	22.83	24.59	24.54	27.58	<=30	Pass
		Edge_1RB_Right	19.93	20.06	23.01	24.68	24.81	27.76	<=30	Pass
		Outer_Full	20.34	20.46	23.41	25.09	25.21	28.16	<=30	Pass
		Inner_Full	20.41	20.55	23.49	25.16	25.30	28.24	<=30	Pass
		Inner_1RB_Left	20.27	20.46	23.38	25.02	25.21	28.13	<=30	Pass
		Inner_1RB_Right	20.42	20.66	23.55	25.17	25.41	28.30	<=30	Pass
	3954.99	Edge_1RB_Left	20.06	19.94	23.01	24.81	24.69	27.76	<=30	Pass
		Edge_1RB_Right	19.92	20.11	23.03	24.67	24.86	27.78	<=30	Pass
		Outer_Full	20.61	20.47	23.55	25.36	25.22	28.30	<=30	Pass



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		Inner_Full	20.51	20.51	23.52	25.26	25.26	28.27	<=30	Pass
		Inner_1RB_Left	20.59	20.53	23.57	25.34	25.28	28.32	<=30	Pass
		Inner_1RB_Right	20.55	20.36	23.46	25.30	25.11	28.22	<=30	Pass
CP-OFDM 64 QAM	3725.01	Edge_1RB_Left	19.51	19.73	22.63	24.26	24.48	27.38	<=30	Pass
		Edge_1RB_Right	19.68	19.59	22.65	24.43	24.34	27.40	<=30	Pass
		Outer_Full	19.61	19.70	22.66	24.36	24.45	27.42	<=30	Pass
		Inner_Full	19.54	19.62	22.59	24.29	24.37	27.34	<=30	Pass
		Inner_1RB_Left	19.77	19.74	22.76	24.52	24.49	27.52	<=30	Pass
		Inner_1RB_Right	19.71	19.58	22.66	24.46	24.33	27.41	<=30	Pass
	3840	Edge_1RB_Left	19.75	19.69	22.73	24.50	24.44	27.48	<=30	Pass
		Edge_1RB_Right	19.89	19.96	22.94	24.64	24.71	27.69	<=30	Pass
		Outer_Full	19.90	20.01	22.97	24.65	24.76	27.72	<=30	Pass
		Inner_Full	19.86	20.01	22.95	24.61	24.76	27.70	<=30	Pass
		Inner_1RB_Left	12.59	12.67	15.64	17.34	17.42	20.39	<=30	Pass
		Inner_1RB_Right	19.95	20.19	23.08	24.70	24.94	27.83	<=30	Pass
	3954.99	Edge_1RB_Left	20.00	20.11	23.07	24.75	24.86	27.82	<=30	Pass
		Edge_1RB_Right	19.84	19.87	22.87	24.59	24.62	27.62	<=30	Pass
		Outer_Full	20.04	19.95	23.00	24.79	24.70	27.76	<=30	Pass
		Inner_Full	20.10	20.07	23.10	24.85	24.82	27.85	<=30	Pass
		Inner_1RB_Left	20.18	20.00	23.10	24.93	24.75	27.85	<=30	Pass
		Inner_1RB_Right	20.10	19.91	23.02	24.85	24.66	27.77	<=30	Pass
CP-OFDM 256 QAM	3725.01	Edge_1RB_Left	16.60	17.05	19.84	21.35	21.80	24.59	<=30	Pass
		Edge_1RB_Right	16.76	16.67	19.73	21.51	21.42	24.48	<=30	Pass
		Outer_Full	16.67	16.64	19.66	21.42	21.39	24.42	<=30	Pass
		Inner_Full	16.59	16.63	19.62	21.34	21.38	24.37	<=30	Pass
		Inner_1RB_Left	16.62	16.78	19.71	21.37	21.53	24.46	<=30	Pass
		Inner_1RB_Right	16.75	16.74	19.76	21.50	21.49	24.51	<=30	Pass
	3840	Edge_1RB_Left	16.70	16.75	19.74	21.45	21.50	24.49	<=30	Pass
		Edge_1RB_Right	16.90	17.11	20.02	21.65	21.86	24.77	<=30	Pass
		Outer_Full	16.81	16.95	19.89	21.56	21.70	24.64	<=30	Pass
		Inner_Full	16.96	16.98	19.98	21.71	21.73	24.73	<=30	Pass
		Inner_1RB_Left	16.69	16.84	19.78	21.44	21.59	24.53	<=30	Pass
		Inner_1RB_Right	16.73	17.11	19.94	21.48	21.86	24.68	<=30	Pass
	3954.99	Edge_1RB_Left	17.20	17.01	20.11	21.95	21.76	24.87	<=30	Pass
		Edge_1RB_Right	16.80	16.71	19.77	21.55	21.46	24.52	<=30	Pass
		Outer_Full	17.08	16.96	20.03	21.83	21.71	24.78	<=30	Pass
		Inner_Full	17.10	16.96	20.04	21.85	21.71	24.79	<=30	Pass



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	Inner_1RB_Left	17.12	16.85	20.00	21.87	21.60	24.75	<=30	Pass
	Inner_1RB_Right	17.09	16.75	19.93	21.84	21.50	24.68	<=30	Pass

Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;
 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

1.1.7 30k_MIMO_60MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 60MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3730.02	Edge_1RB_Left	19.67	19.76	22.72	24.42	24.51	27.48	<=30	Pass
		Edge_1RB_Right	19.62	19.53	22.58	24.37	24.28	27.34	<=30	Pass
		Outer_Full	20.20	20.18	23.20	24.95	24.93	27.95	<=30	Pass
		Inner_Full	20.15	20.16	23.17	24.90	24.91	27.92	<=30	Pass
		Inner_1RB_Left	20.29	20.41	23.36	25.04	25.16	28.11	<=30	Pass
		Inner_1RB_Right	20.29	20.13	23.22	25.04	24.88	27.97	<=30	Pass
	3840	Edge_1RB_Left	19.76	19.80	22.79	24.51	24.55	27.54	<=30	Pass
		Edge_1RB_Right	19.90	20.02	22.97	24.65	24.77	27.72	<=30	Pass
		Outer_Full	20.29	20.46	23.38	25.04	25.21	28.14	<=30	Pass
		Inner_Full	20.47	20.52	23.51	25.22	25.27	28.26	<=30	Pass
		Inner_1RB_Left	20.20	20.33	23.28	24.95	25.08	28.03	<=30	Pass
		Inner_1RB_Right	20.41	20.55	23.49	25.16	25.30	28.24	<=30	Pass
	3949.98	Edge_1RB_Left	20.06	19.72	22.91	24.81	24.47	27.65	<=30	Pass
		Edge_1RB_Right	19.68	19.58	22.64	24.43	24.33	27.39	<=30	Pass
		Outer_Full	20.37	20.25	23.32	25.12	25.00	28.07	<=30	Pass
		Inner_Full	20.43	20.21	23.33	25.18	24.96	28.08	<=30	Pass
		Inner_1RB_Left	20.61	20.22	23.43	25.36	24.97	28.18	<=30	Pass
		Inner_1RB_Right	20.15	20.22	23.20	24.90	24.97	27.95	<=30	Pass
CP-OFDM 16 QAM	3730.02	Edge_1RB_Left	19.73	19.98	22.87	24.48	24.73	27.62	<=30	Pass
		Edge_1RB_Right	19.63	19.65	22.65	24.38	24.40	27.40	<=30	Pass
		Outer_Full	20.13	20.23	23.19	24.88	24.98	27.94	<=30	Pass
		Inner_Full	20.17	20.19	23.19	24.92	24.94	27.94	<=30	Pass
		Inner_1RB_Left	20.19	20.20	23.21	24.94	24.95	27.96	<=30	Pass
		Inner_1RB_Right	20.28	20.07	23.19	25.03	24.82	27.94	<=30	Pass
	3840	Edge_1RB_Left	19.79	19.67	22.74	24.54	24.42	27.49	<=30	Pass
		Edge_1RB_Right	19.76	19.95	22.87	24.51	24.70	27.62	<=30	Pass
		Outer_Full	20.35	20.46	23.41	25.10	25.21	28.17	<=30	Pass



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		Inner_Full	20.33	20.49	23.42	25.08	25.24	28.17	<=30	Pass	
		Inner_1RB_Left	20.45	20.35	23.41	25.20	25.10	28.16	<=30	Pass	
		Inner_1RB_Right	20.39	20.68	23.55	25.14	25.43	28.30	<=30	Pass	
	3949.98		Edge_1RB_Left	19.89	19.80	22.85	24.64	24.55	27.61	<=30	Pass
			Edge_1RB_Right	19.70	19.75	22.74	24.45	24.50	27.49	<=30	Pass
		Outer_Full	20.40	20.17	23.30	25.15	24.92	28.05	<=30	Pass	
		Inner_Full	20.45	20.19	23.33	25.20	24.94	28.08	<=30	Pass	
		Inner_1RB_Left	20.56	20.25	23.42	25.31	25.00	28.17	<=30	Pass	
		Inner_1RB_Right	20.10	20.38	23.25	24.85	25.13	28.00	<=30	Pass	
CP-OFDM 64 QAM	3730.02	Edge_1RB_Left	19.53	19.83	22.69	24.28	24.58	27.44	<=30	Pass	
		Edge_1RB_Right	19.57	19.55	22.57	24.32	24.30	27.32	<=30	Pass	
		Outer_Full	19.68	19.72	22.71	24.43	24.47	27.46	<=30	Pass	
		Inner_Full	19.72	19.65	22.70	24.47	24.40	27.45	<=30	Pass	
		Inner_1RB_Left	19.63	20.07	22.87	24.38	24.82	27.62	<=30	Pass	
		Inner_1RB_Right	19.73	19.59	22.67	24.48	24.34	27.42	<=30	Pass	
	3840		Edge_1RB_Left	19.68	19.80	22.75	24.43	24.55	27.50	<=30	Pass
			Edge_1RB_Right	19.95	20.01	22.99	24.70	24.76	27.74	<=30	Pass
		Outer_Full	19.90	19.98	22.95	24.65	24.73	27.70	<=30	Pass	
		Inner_Full	19.84	19.96	22.91	24.59	24.71	27.66	<=30	Pass	
		Inner_1RB_Left	19.81	19.43	22.63	24.56	24.18	27.38	<=30	Pass	
		Inner_1RB_Right	19.86	19.93	22.90	24.61	24.68	27.66	<=30	Pass	
	3949.98		Edge_1RB_Left	20.22	19.72	22.99	24.97	24.47	27.74	<=30	Pass
			Edge_1RB_Right	19.69	19.60	22.66	24.44	24.35	27.41	<=30	Pass
		Outer_Full	19.95	19.70	22.84	24.70	24.45	27.59	<=30	Pass	
		Inner_Full	19.93	19.69	22.82	24.68	24.44	27.57	<=30	Pass	
		Inner_1RB_Left	20.03	19.69	22.87	24.78	24.44	27.62	<=30	Pass	
		Inner_1RB_Right	19.81	19.42	22.63	24.56	24.17	27.38	<=30	Pass	
	CP-OFDM 256 QAM	3730.02	Edge_1RB_Left	16.64	16.79	19.72	21.39	21.54	24.48	<=30	Pass
			Edge_1RB_Right	16.60	16.37	19.50	21.35	21.12	24.25	<=30	Pass
			Outer_Full	16.69	16.73	19.72	21.44	21.48	24.47	<=30	Pass
			Inner_Full	16.63	16.67	19.66	21.38	21.42	24.41	<=30	Pass
			Inner_1RB_Left	16.56	16.83	19.71	21.31	21.58	24.46	<=30	Pass
			Inner_1RB_Right	16.78	16.72	19.76	21.53	21.47	24.51	<=30	Pass
3840			Edge_1RB_Left	16.78	16.80	19.80	21.53	21.55	24.55	<=30	Pass
			Edge_1RB_Right	16.93	16.97	19.96	21.68	21.72	24.71	<=30	Pass
		Outer_Full	16.79	16.91	19.86	21.54	21.66	24.61	<=30	Pass	
		Inner_Full	16.84	16.97	19.92	21.59	21.72	24.67	<=30	Pass	



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3949.98	Inner_1RB_Left	16.49	16.79	19.65	21.24	21.54	24.40	<=30	Pass
	Inner_1RB_Right	16.92	17.09	20.02	21.67	21.84	24.77	<=30	Pass
	Edge_1RB_Left	16.99	16.63	19.82	21.74	21.38	24.57	<=30	Pass
	Edge_1RB_Right	16.65	16.44	19.55	21.40	21.19	24.31	<=30	Pass
	Outer_Full	16.97	16.69	19.84	21.72	21.44	24.59	<=30	Pass
	Inner_Full	16.91	16.61	19.78	21.66	21.36	24.52	<=30	Pass
	Inner_1RB_Left	16.92	17.00	19.97	21.67	21.75	24.72	<=30	Pass
	Inner_1RB_Right	16.82	16.63	19.74	21.57	21.38	24.49	<=30	Pass

Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;

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

1.1.8 30k_MIMO_70MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 70MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3735	Edge_1RB_Left	19.60	19.65	22.64	24.35	24.40	27.39	<=30	Pass
		Edge_1RB_Right	19.39	19.64	22.53	24.14	24.39	27.28	<=30	Pass
		Outer_Full	19.98	20.01	23.00	24.73	24.76	27.76	<=30	Pass
		Inner_Full	20.04	20.13	23.10	24.79	24.88	27.85	<=30	Pass
		Inner_1RB_Left	20.06	20.21	23.15	24.81	24.96	27.90	<=30	Pass
		Inner_1RB_Right	19.84	20.17	23.02	24.59	24.92	27.77	<=30	Pass
	3840	Edge_1RB_Left	19.98	19.68	22.85	24.73	24.43	27.59	<=30	Pass
		Edge_1RB_Right	19.65	19.72	22.70	24.40	24.47	27.45	<=30	Pass
		Outer_Full	20.25	20.31	23.29	25.00	25.06	28.04	<=30	Pass
		Inner_Full	20.21	20.37	23.30	24.96	25.12	28.05	<=30	Pass
		Inner_1RB_Left	20.29	20.08	23.20	25.04	24.83	27.95	<=30	Pass
		Inner_1RB_Right	20.31	20.26	23.29	25.06	25.01	28.05	<=30	Pass
	3945	Edge_1RB_Left	19.87	19.67	22.78	24.62	24.42	27.53	<=30	Pass
		Edge_1RB_Right	19.62	19.58	22.61	24.37	24.33	27.36	<=30	Pass
		Outer_Full	20.23	20.03	23.15	24.98	24.78	27.89	<=30	Pass
		Inner_Full	20.33	20.11	23.23	25.08	24.86	27.98	<=30	Pass
		Inner_1RB_Left	20.26	20.30	23.29	25.01	25.05	28.04	<=30	Pass
		Inner_1RB_Right	20.08	20.13	23.12	24.83	24.88	27.87	<=30	Pass
CP-OFDM 16 QAM	3735	Edge_1RB_Left	19.58	19.68	22.64	24.33	24.43	27.39	<=30	Pass
		Edge_1RB_Right	19.32	19.64	22.50	24.07	24.39	27.24	<=30	Pass
		Outer_Full	19.96	20.10	23.04	24.71	24.85	27.79	<=30	Pass



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		Inner_Full	19.99	20.09	23.05	24.74	24.84	27.80	<=30	Pass	
		Inner_1RB_Left	19.74	20.17	22.97	24.49	24.92	27.72	<=30	Pass	
		Inner_1RB_Right	19.81	20.08	22.96	24.56	24.83	27.71	<=30	Pass	
	3840	Edge_1RB_Left	19.73	19.63	22.69	24.48	24.38	27.44	<=30	Pass	
		Edge_1RB_Right	19.45	19.70	22.59	24.20	24.45	27.34	<=30	Pass	
		Outer_Full	20.23	20.38	23.32	24.98	25.13	28.07	<=30	Pass	
		Inner_Full	20.30	20.40	23.36	25.05	25.15	28.11	<=30	Pass	
		Inner_1RB_Left	20.12	20.31	23.23	24.87	25.06	27.98	<=30	Pass	
		Inner_1RB_Right	19.88	20.54	23.23	24.63	25.29	27.98	<=30	Pass	
	3945	Edge_1RB_Left	19.76	19.67	22.72	24.51	24.42	27.48	<=30	Pass	
		Edge_1RB_Right	19.54	19.59	22.57	24.29	24.34	27.33	<=30	Pass	
		Outer_Full	20.22	20.13	23.18	24.97	24.88	27.94	<=30	Pass	
		Inner_Full	20.32	20.10	23.22	25.07	24.85	27.97	<=30	Pass	
		Inner_1RB_Left	20.15	20.19	23.18	24.90	24.94	27.93	<=30	Pass	
		Inner_1RB_Right	19.91	20.18	23.06	24.66	24.93	27.81	<=30	Pass	
CP-OFDM 64 QAM	3735	Edge_1RB_Left	19.37	19.59	22.49	24.12	24.34	27.24	<=30	Pass	
		Edge_1RB_Right	19.20	19.46	22.34	23.95	24.21	27.09	<=30	Pass	
		Outer_Full	19.46	19.56	22.52	24.21	24.31	27.27	<=30	Pass	
		Inner_Full	19.48	19.58	22.54	24.23	24.33	27.29	<=30	Pass	
		Inner_1RB_Left	19.45	19.65	22.56	24.20	24.40	27.31	<=30	Pass	
		Inner_1RB_Right	19.30	19.64	22.49	24.05	24.39	27.23	<=30	Pass	
	3840	Edge_1RB_Left	19.68	19.63	22.67	24.43	24.38	27.42	<=30	Pass	
		Edge_1RB_Right	19.63	19.69	22.67	24.38	24.44	27.42	<=30	Pass	
		Outer_Full	19.75	19.84	22.80	24.50	24.59	27.56	<=30	Pass	
		Inner_Full	19.67	19.84	22.76	24.42	24.59	27.52	<=30	Pass	
		Inner_1RB_Left	19.77	19.71	22.75	24.52	24.46	27.50	<=30	Pass	
		Inner_1RB_Right	19.65	19.74	22.71	24.40	24.49	27.46	<=30	Pass	
	3945	Edge_1RB_Left	19.70	19.70	22.71	24.45	24.45	27.46	<=30	Pass	
		Edge_1RB_Right	19.64	19.61	22.63	24.39	24.36	27.39	<=30	Pass	
		Outer_Full	19.73	19.61	22.68	24.48	24.36	27.43	<=30	Pass	
		Inner_Full	19.74	19.51	22.64	24.49	24.26	27.39	<=30	Pass	
		Inner_1RB_Left	19.61	19.72	22.68	24.36	24.47	27.43	<=30	Pass	
		Inner_1RB_Right	19.59	19.47	22.54	24.34	24.22	27.29	<=30	Pass	
	CP-OFDM 256 QAM	3735	Edge_1RB_Left	16.56	16.57	19.58	21.31	21.32	24.33	<=30	Pass
			Edge_1RB_Right	16.22	16.41	19.32	20.97	21.16	24.08	<=30	Pass
			Outer_Full	16.39	16.67	19.55	21.14	21.42	24.29	<=30	Pass
			Inner_Full	16.48	16.55	19.52	21.23	21.30	24.28	<=30	Pass



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		Inner_1RB_Left	16.41	16.52	19.47	21.16	21.27	24.23	<=30	Pass	
		Inner_1RB_Right	16.44	16.56	19.51	21.19	21.31	24.26	<=30	Pass	
	3840	Edge_1RB_Left	16.59	16.71	19.66	21.34	21.46	24.41	<=30	Pass	
		Edge_1RB_Right	16.51	16.95	19.75	21.26	21.70	24.50	<=30	Pass	
		Outer_Full	16.73	16.84	19.80	21.48	21.59	24.55	<=30	Pass	
		Inner_Full	16.77	16.89	19.84	21.52	21.64	24.59	<=30	Pass	
		Inner_1RB_Left	16.39	16.53	19.47	21.14	21.28	24.22	<=30	Pass	
		Inner_1RB_Right	16.53	16.93	19.75	21.28	21.68	24.49	<=30	Pass	
	3945	Edge_1RB_Left	16.91	16.88	19.90	21.66	21.63	24.66	<=30	Pass	
		Edge_1RB_Right	16.51	16.56	19.54	21.26	21.31	24.30	<=30	Pass	
		Outer_Full	16.81	16.61	19.72	21.56	21.36	24.47	<=30	Pass	
		Inner_Full	16.75	16.56	19.67	21.50	21.31	24.42	<=30	Pass	
		Inner_1RB_Left	16.74	16.73	19.74	21.49	21.48	24.50	<=30	Pass	
		Inner_1RB_Right	16.42	16.45	19.44	21.17	21.20	24.20	<=30	Pass	
	<p>Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;</p> <p>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</p>										

1.1.9 30k_MIMO_80MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 80MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3740.01	Edge_1RB_Left	19.47	19.85	22.68	24.22	24.60	27.42	<=30	Pass
		Edge_1RB_Right	19.36	19.68	22.53	24.11	24.43	27.28	<=30	Pass
		Outer_Full	19.94	20.19	23.08	24.69	24.94	27.83	<=30	Pass
		Inner_Full	20.00	20.17	23.10	24.75	24.92	27.85	<=30	Pass
		Inner_1RB_Left	20.04	20.34	23.20	24.79	25.09	27.95	<=30	Pass
		Inner_1RB_Right	19.88	20.14	23.02	24.63	24.89	27.77	<=30	Pass
	3840	Edge_1RB_Left	19.75	19.69	22.73	24.50	24.44	27.48	<=30	Pass
		Edge_1RB_Right	19.46	19.69	22.59	24.21	24.44	27.34	<=30	Pass
		Outer_Full	20.24	20.21	23.23	24.99	24.96	27.99	<=30	Pass
		Inner_Full	20.23	20.34	23.29	24.98	25.09	28.05	<=30	Pass
		Inner_1RB_Left	20.43	20.05	23.26	25.18	24.80	28.00	<=30	Pass
		Inner_1RB_Right	20.00	20.29	23.16	24.75	25.04	27.91	<=30	Pass
	3939.99	Edge_1RB_Left	19.39	19.88	22.65	24.14	24.63	27.40	<=30	Pass
		Edge_1RB_Right	19.62	19.49	22.56	24.37	24.24	27.32	<=30	Pass
		Outer_Full	20.32	20.05	23.20	25.07	24.80	27.95	<=30	Pass



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		Inner_Full	20.33	20.16	23.26	25.08	24.91	28.01	<=30	Pass
		Inner_1RB_Left	19.90	20.36	23.15	24.65	25.11	27.90	<=30	Pass
		Inner_1RB_Right	20.05	20.11	23.09	24.80	24.86	27.84	<=30	Pass
CP-OFDM 16 QAM	3740.01	Edge_1RB_Left	19.44	19.64	22.55	24.19	24.39	27.30	<=30	Pass
		Edge_1RB_Right	19.25	19.78	22.53	24.00	24.53	27.28	<=30	Pass
		Outer_Full	19.96	20.16	23.07	24.71	24.91	27.82	<=30	Pass
		Inner_Full	20.17	20.14	23.16	24.92	24.89	27.92	<=30	Pass
		Inner_1RB_Left	19.97	20.20	23.10	24.72	24.95	27.85	<=30	Pass
		Inner_1RB_Right	19.72	20.11	22.93	24.47	24.86	27.68	<=30	Pass
	3840	Edge_1RB_Left	19.64	19.88	22.77	24.39	24.63	27.52	<=30	Pass
		Edge_1RB_Right	19.43	19.87	22.67	24.18	24.62	27.42	<=30	Pass
		Outer_Full	20.22	20.30	23.27	24.97	25.05	28.02	<=30	Pass
		Inner_Full	20.21	20.39	23.31	24.96	25.14	28.06	<=30	Pass
		Inner_1RB_Left	19.95	20.17	23.07	24.70	24.92	27.82	<=30	Pass
		Inner_1RB_Right	19.98	20.18	23.09	24.73	24.93	27.84	<=30	Pass
	3939.99	Edge_1RB_Left	19.43	19.89	22.68	24.18	24.64	27.43	<=30	Pass
		Edge_1RB_Right	19.63	19.55	22.60	24.38	24.30	27.35	<=30	Pass
		Outer_Full	20.26	20.17	23.23	25.01	24.92	27.98	<=30	Pass
		Inner_Full	20.38	20.13	23.27	25.13	24.88	28.02	<=30	Pass
		Inner_1RB_Left	19.86	20.26	23.08	24.61	25.01	27.82	<=30	Pass
		Inner_1RB_Right	20.16	20.19	23.18	24.91	24.94	27.94	<=30	Pass
CP-OFDM 64 QAM	3740.01	Edge_1RB_Left	19.59	19.51	22.56	24.34	24.26	27.31	<=30	Pass
		Edge_1RB_Right	19.22	19.84	22.55	23.97	24.59	27.30	<=30	Pass
		Outer_Full	19.43	19.64	22.54	24.18	24.39	27.30	<=30	Pass
		Inner_Full	19.65	19.65	22.66	24.40	24.40	27.41	<=30	Pass
		Inner_1RB_Left	19.44	19.55	22.51	24.19	24.30	27.26	<=30	Pass
		Inner_1RB_Right	19.35	19.47	22.42	24.10	24.22	27.17	<=30	Pass
	3840	Edge_1RB_Left	19.74	19.56	22.66	24.49	24.31	27.41	<=30	Pass
		Edge_1RB_Right	19.45	19.74	22.61	24.20	24.49	27.36	<=30	Pass
		Outer_Full	19.68	19.83	22.76	24.43	24.58	27.52	<=30	Pass
		Inner_Full	19.74	19.85	22.80	24.49	24.60	27.56	<=30	Pass
		Inner_1RB_Left	19.52	19.56	22.55	24.27	24.31	27.30	<=30	Pass
		Inner_1RB_Right	19.48	19.63	22.57	24.23	24.38	27.32	<=30	Pass
	3939.99	Edge_1RB_Left	19.31	19.90	22.63	24.06	24.65	27.38	<=30	Pass
		Edge_1RB_Right	19.71	19.53	22.63	24.46	24.28	27.38	<=30	Pass
		Outer_Full	19.74	19.72	22.74	24.49	24.47	27.49	<=30	Pass
		Inner_Full	19.81	19.69	22.76	24.56	24.44	27.51	<=30	Pass



		Inner_1RB_Left	19.39	19.70	22.56	24.14	24.45	27.31	<=30	Pass
		Inner_1RB_Right	19.55	19.51	22.54	24.30	24.26	27.29	<=30	Pass
CP-OFDM 256 QAM	3740.01	Edge_1RB_Left	16.43	16.63	19.54	21.18	21.38	24.29	<=30	Pass
		Edge_1RB_Right	16.32	16.83	19.59	21.07	21.58	24.34	<=30	Pass
		Outer_Full	16.51	16.59	19.56	21.26	21.34	24.31	<=30	Pass
		Inner_Full	16.59	16.59	19.60	21.34	21.34	24.35	<=30	Pass
		Inner_1RB_Left	16.38	16.58	19.49	21.13	21.33	24.24	<=30	Pass
		Inner_1RB_Right	16.12	16.64	19.40	20.87	21.39	24.15	<=30	Pass
	3840	Edge_1RB_Left	16.70	16.63	19.68	21.45	21.38	24.43	<=30	Pass
		Edge_1RB_Right	16.36	16.71	19.55	21.11	21.46	24.30	<=30	Pass
		Outer_Full	16.62	16.79	19.72	21.37	21.54	24.47	<=30	Pass
		Inner_Full	16.65	16.86	19.76	21.40	21.61	24.52	<=30	Pass
		Inner_1RB_Left	16.65	16.69	19.68	21.40	21.44	24.43	<=30	Pass
		Inner_1RB_Right	16.30	16.90	19.62	21.05	21.65	24.37	<=30	Pass
	3939.99	Edge_1RB_Left	16.51	16.77	19.65	21.26	21.52	24.40	<=30	Pass
		Edge_1RB_Right	16.78	16.50	19.65	21.53	21.25	24.40	<=30	Pass
		Outer_Full	16.69	16.66	19.69	21.44	21.41	24.44	<=30	Pass
		Inner_Full	16.90	16.62	19.77	21.65	21.37	24.52	<=30	Pass
		Inner_1RB_Left	16.43	16.65	19.55	21.18	21.40	24.30	<=30	Pass
		Inner_1RB_Right	16.64	16.39	19.52	21.39	21.14	24.28	<=30	Pass

Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;

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

1.1.10 30k_MIMO_90MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 90MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3745.02	Edge_1RB_Left	19.42	19.74	22.59	24.17	24.49	27.34	<=30	Pass
		Edge_1RB_Right	19.56	20.08	22.84	24.31	24.83	27.59	<=30	Pass
		Outer_Full	19.90	20.10	23.01	24.65	24.85	27.76	<=30	Pass
		Inner_Full	20.05	20.11	23.09	24.80	24.86	27.84	<=30	Pass
		Inner_1RB_Left	20.00	20.16	23.09	24.75	24.91	27.84	<=30	Pass
		Inner_1RB_Right	20.05	20.47	23.27	24.80	25.22	28.03	<=30	Pass
	3840	Edge_1RB_Left	19.57	19.65	22.62	24.32	24.40	27.37	<=30	Pass
		Edge_1RB_Right	19.37	19.82	22.61	24.12	24.57	27.36	<=30	Pass
		Outer_Full	20.21	20.23	23.23	24.96	24.98	27.98	<=30	Pass



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		Inner_Full	20.24	20.38	23.32	24.99	25.13	28.07	<=30	Pass	
		Inner_1RB_Left	20.06	20.23	23.16	24.81	24.98	27.91	<=30	Pass	
		Inner_1RB_Right	19.90	20.43	23.18	24.65	25.18	27.93	<=30	Pass	
	3934.98		Edge_1RB_Left	19.25	19.83	22.56	24.00	24.58	27.31	<=30	Pass
			Edge_1RB_Right	19.77	19.54	22.67	24.52	24.29	27.42	<=30	Pass
		Outer_Full	20.21	20.18	23.20	24.96	24.93	27.96	<=30	Pass	
		Inner_Full	20.48	20.18	23.34	25.23	24.93	28.09	<=30	Pass	
		Inner_1RB_Left	19.83	20.34	23.10	24.58	25.09	27.85	<=30	Pass	
		Inner_1RB_Right	20.07	20.09	23.09	24.82	24.84	27.84	<=30	Pass	
CP-OFDM 16 QAM	3745.02	Edge_1RB_Left	19.41	19.65	22.54	24.16	24.40	27.29	<=30	Pass	
		Edge_1RB_Right	19.42	19.90	22.68	24.17	24.65	27.43	<=30	Pass	
		Outer_Full	19.98	20.09	23.05	24.73	24.84	27.80	<=30	Pass	
		Inner_Full	20.07	20.04	23.06	24.82	24.79	27.82	<=30	Pass	
		Inner_1RB_Left	19.92	20.25	23.10	24.67	25.00	27.85	<=30	Pass	
		Inner_1RB_Right	20.15	20.62	23.40	24.90	25.37	28.15	<=30	Pass	
	3840		Edge_1RB_Left	19.64	19.67	22.67	24.39	24.42	27.42	<=30	Pass
			Edge_1RB_Right	19.27	19.89	22.60	24.02	24.64	27.35	<=30	Pass
		Outer_Full	20.17	20.30	23.25	24.92	25.05	28.00	<=30	Pass	
		Inner_Full	20.27	20.38	23.34	25.02	25.13	28.09	<=30	Pass	
		Inner_1RB_Left	20.02	20.38	23.21	24.77	25.13	27.96	<=30	Pass	
		Inner_1RB_Right	19.99	20.30	23.16	24.74	25.05	27.91	<=30	Pass	
	3934.98		Edge_1RB_Left	19.41	19.71	22.57	24.16	24.46	27.32	<=30	Pass
			Edge_1RB_Right	19.67	19.67	22.68	24.42	24.42	27.43	<=30	Pass
		Outer_Full	20.28	20.26	23.28	25.03	25.01	28.03	<=30	Pass	
		Inner_Full	20.40	20.19	23.31	25.15	24.94	28.06	<=30	Pass	
		Inner_1RB_Left	20.02	20.13	23.09	24.77	24.88	27.84	<=30	Pass	
		Inner_1RB_Right	20.19	19.96	23.09	24.94	24.71	27.84	<=30	Pass	
	CP-OFDM 64 QAM	3745.02	Edge_1RB_Left	19.49	19.60	22.55	24.24	24.35	27.31	<=30	Pass
			Edge_1RB_Right	19.47	19.92	22.71	24.22	24.67	27.46	<=30	Pass
			Outer_Full	19.47	19.60	22.55	24.22	24.35	27.30	<=30	Pass
			Inner_Full	19.53	19.67	22.61	24.28	24.42	27.36	<=30	Pass
			Inner_1RB_Left	19.39	19.66	22.53	24.14	24.41	27.29	<=30	Pass
			Inner_1RB_Right	19.44	19.86	22.66	24.19	24.61	27.42	<=30	Pass
3840			Edge_1RB_Left	19.59	19.73	22.68	24.34	24.48	27.42	<=30	Pass
			Edge_1RB_Right	19.52	19.86	22.70	24.27	24.61	27.45	<=30	Pass
		Outer_Full	19.68	19.84	22.77	24.43	24.59	27.52	<=30	Pass	
		Inner_Full	19.70	19.80	22.76	24.45	24.55	27.51	<=30	Pass	



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		Inner_1RB_Left	19.54	19.54	22.55	24.29	24.29	27.30	<=30	Pass	
		Inner_1RB_Right	19.56	19.89	22.74	24.31	24.64	27.49	<=30	Pass	
	3934.98	Edge_1RB_Left	19.24	19.67	22.47	23.99	24.42	27.22	<=30	Pass	
		Edge_1RB_Right	19.66	19.52	22.60	24.41	24.27	27.35	<=30	Pass	
		Outer_Full	19.81	19.77	22.80	24.56	24.52	27.55	<=30	Pass	
		Inner_Full	19.98	19.79	22.89	24.73	24.54	27.65	<=30	Pass	
		Inner_1RB_Left	19.28	19.54	22.42	24.03	24.29	27.17	<=30	Pass	
		Inner_1RB_Right	19.50	19.43	22.47	24.25	24.18	27.23	<=30	Pass	
	CP-OFDM 256 QAM	3745.02	Edge_1RB_Left	16.60	16.61	19.62	21.35	21.36	24.37	<=30	Pass
			Edge_1RB_Right	16.40	16.96	19.70	21.15	21.71	24.45	<=30	Pass
			Outer_Full	16.40	16.64	19.53	21.15	21.39	24.28	<=30	Pass
			Inner_Full	16.49	16.58	19.54	21.24	21.33	24.30	<=30	Pass
			Inner_1RB_Left	16.28	16.61	19.46	21.03	21.36	24.21	<=30	Pass
			Inner_1RB_Right	16.31	16.96	19.66	21.06	21.71	24.41	<=30	Pass
3840		Edge_1RB_Left	16.65	16.83	19.75	21.40	21.58	24.50	<=30	Pass	
		Edge_1RB_Right	16.33	16.68	19.52	21.08	21.43	24.27	<=30	Pass	
		Outer_Full	16.71	16.83	19.78	21.46	21.58	24.53	<=30	Pass	
		Inner_Full	16.73	16.81	19.78	21.48	21.56	24.53	<=30	Pass	
		Inner_1RB_Left	16.46	16.59	19.54	21.21	21.34	24.29	<=30	Pass	
		Inner_1RB_Right	16.27	16.84	19.57	21.02	21.59	24.32	<=30	Pass	
3934.98	Edge_1RB_Left	16.18	16.72	19.47	20.93	21.47	24.22	<=30	Pass		
	Edge_1RB_Right	16.49	16.69	19.60	21.24	21.44	24.35	<=30	Pass		
	Outer_Full	16.85	16.77	19.82	21.60	21.52	24.57	<=30	Pass		
	Inner_Full	16.98	16.71	19.86	21.73	21.46	24.61	<=30	Pass		
	Inner_1RB_Left	16.15	16.65	19.42	20.90	21.40	24.17	<=30	Pass		
	Inner_1RB_Right	16.64	16.68	19.67	21.39	21.43	24.42	<=30	Pass		

Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;

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

1.1.11 30k_MIMO_100MHz_NTNV_EIRP

5G NR n77a SCS=30kHz MIMO 100MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3750	Edge_1RB_Left	19.52	19.82	22.68	24.27	24.57	27.43	<=30	Pass
		Edge_1RB_Right	19.69	19.87	22.79	24.44	24.62	27.54	<=30	Pass
		Outer_Full	19.97	20.27	23.14	24.72	25.02	27.88	<=30	Pass



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		Inner_Full	20.10	20.13	23.13	24.85	24.88	27.88	<=30	Pass
		Inner_1RB_Left	19.82	20.21	23.03	24.57	24.96	27.78	<=30	Pass
		Inner_1RB_Right	20.32	20.45	23.40	25.07	25.20	28.15	<=30	Pass
	3840	Edge_1RB_Left	19.39	19.55	22.48	24.14	24.30	27.23	<=30	Pass
		Edge_1RB_Right	19.40	19.75	22.59	24.15	24.50	27.34	<=30	Pass
		Outer_Full	20.14	20.11	23.14	24.89	24.86	27.89	<=30	Pass
		Inner_Full	20.32	20.39	23.36	25.07	25.14	28.12	<=30	Pass
		Inner_1RB_Left	20.01	20.18	23.11	24.76	24.93	27.86	<=30	Pass
		Inner_1RB_Right	19.99	20.26	23.14	24.74	25.01	27.89	<=30	Pass
	3930	Edge_1RB_Left	19.54	19.75	22.65	24.29	24.50	27.41	<=30	Pass
		Edge_1RB_Right	19.71	19.65	22.69	24.46	24.40	27.44	<=30	Pass
		Outer_Full	20.15	20.21	23.19	24.90	24.96	27.94	<=30	Pass
		Inner_Full	20.34	20.14	23.25	25.09	24.89	28.00	<=30	Pass
		Inner_1RB_Left	19.95	20.14	23.06	24.70	24.89	27.81	<=30	Pass
		Inner_1RB_Right	20.13	20.14	23.15	24.88	24.89	27.90	<=30	Pass
CP-OFDM 16 QAM	3750	Edge_1RB_Left	19.51	19.61	22.57	24.26	24.36	27.32	<=30	Pass
		Edge_1RB_Right	19.98	20.05	23.03	24.73	24.80	27.78	<=30	Pass
		Outer_Full	19.92	20.15	23.05	24.67	24.90	27.80	<=30	Pass
		Inner_Full	20.11	20.10	23.11	24.86	24.85	27.87	<=30	Pass
		Inner_1RB_Left	20.23	20.27	23.26	24.98	25.02	28.01	<=30	Pass
		Inner_1RB_Right	20.31	20.40	23.36	25.06	25.15	28.12	<=30	Pass
	3840	Edge_1RB_Left	19.53	19.57	22.56	24.28	24.32	27.31	<=30	Pass
		Edge_1RB_Right	19.28	19.80	22.56	24.03	24.55	27.31	<=30	Pass
		Outer_Full	20.18	20.38	23.29	24.93	25.13	28.04	<=30	Pass
		Inner_Full	20.28	20.39	23.35	25.03	25.14	28.10	<=30	Pass
		Inner_1RB_Left	19.77	20.34	23.08	24.52	25.09	27.82	<=30	Pass
		Inner_1RB_Right	19.93	20.38	23.17	24.68	25.13	27.92	<=30	Pass
	3930	Edge_1RB_Left	19.34	19.90	22.64	24.09	24.65	27.39	<=30	Pass
		Edge_1RB_Right	19.69	19.64	22.67	24.44	24.39	27.43	<=30	Pass
		Outer_Full	20.19	20.17	23.19	24.94	24.92	27.94	<=30	Pass
		Inner_Full	20.39	20.17	23.29	25.14	24.92	28.04	<=30	Pass
		Inner_1RB_Left	20.06	20.40	23.24	24.81	25.15	27.99	<=30	Pass
		Inner_1RB_Right	19.99	20.21	23.11	24.74	24.96	27.86	<=30	Pass
CP-OFDM 64 QAM	3750	Edge_1RB_Left	19.57	19.57	22.58	24.32	24.32	27.33	<=30	Pass
		Edge_1RB_Right	19.75	19.88	22.83	24.50	24.63	27.58	<=30	Pass
		Outer_Full	19.54	19.62	22.59	24.29	24.37	27.34	<=30	Pass
		Inner_Full	19.53	19.67	22.61	24.28	24.42	27.36	<=30	Pass



		Inner_1RB_Left	19.63	19.71	22.68	24.38	24.46	27.43	<=30	Pass
		Inner_1RB_Right	19.82	19.80	22.82	24.57	24.55	27.57	<=30	Pass
	3840	Edge_1RB_Left	19.68	19.84	22.77	24.43	24.59	27.52	<=30	Pass
		Edge_1RB_Right	19.31	19.61	22.47	24.06	24.36	27.22	<=30	Pass
		Outer_Full	19.66	19.81	22.75	24.41	24.56	27.50	<=30	Pass
		Inner_Full	19.75	19.92	22.85	24.50	24.67	27.60	<=30	Pass
		Inner_1RB_Left	19.66	19.80	22.74	24.41	24.55	27.49	<=30	Pass
		Inner_1RB_Right	19.45	19.62	22.55	24.20	24.37	27.30	<=30	Pass
	3930	Edge_1RB_Left	19.41	19.78	22.61	24.16	24.53	27.36	<=30	Pass
		Edge_1RB_Right	19.58	19.60	22.60	24.33	24.35	27.35	<=30	Pass
		Outer_Full	19.72	19.61	22.68	24.47	24.36	27.43	<=30	Pass
		Inner_Full	19.89	19.74	22.83	24.64	24.49	27.58	<=30	Pass
		Inner_1RB_Left	19.50	19.94	22.73	24.25	24.69	27.49	<=30	Pass
		Inner_1RB_Right	19.74	19.75	22.75	24.49	24.50	27.51	<=30	Pass
CP-OFDM 256 QAM	3750	Edge_1RB_Left	16.31	16.97	19.66	21.06	21.72	24.41	<=30	Pass
		Edge_1RB_Right	16.70	16.88	19.80	21.45	21.63	24.55	<=30	Pass
		Outer_Full	16.46	16.74	19.61	21.21	21.49	24.36	<=30	Pass
		Inner_Full	16.50	16.70	19.61	21.25	21.45	24.36	<=30	Pass
		Inner_1RB_Left	16.43	16.65	19.55	21.18	21.40	24.30	<=30	Pass
		Inner_1RB_Right	16.76	16.78	19.78	21.51	21.53	24.53	<=30	Pass
	3840	Edge_1RB_Left	16.44	16.72	19.59	21.19	21.47	24.34	<=30	Pass
		Edge_1RB_Right	16.27	16.88	19.59	21.02	21.63	24.35	<=30	Pass
		Outer_Full	16.64	16.78	19.72	21.39	21.53	24.47	<=30	Pass
		Inner_Full	16.74	16.86	19.81	21.49	21.61	24.56	<=30	Pass
		Inner_1RB_Left	16.29	16.58	19.45	21.04	21.33	24.20	<=30	Pass
		Inner_1RB_Right	16.37	16.71	19.55	21.12	21.46	24.30	<=30	Pass
	3930	Edge_1RB_Left	16.32	16.53	19.44	21.07	21.28	24.19	<=30	Pass
		Edge_1RB_Right	16.81	16.84	19.84	21.56	21.59	24.59	<=30	Pass
		Outer_Full	16.74	16.73	19.75	21.49	21.48	24.50	<=30	Pass
		Inner_Full	16.90	16.71	19.82	21.65	21.46	24.57	<=30	Pass
		Inner_1RB_Left	16.38	16.75	19.58	21.13	21.50	24.33	<=30	Pass
		Inner_1RB_Right	16.58	16.50	19.55	21.33	21.25	24.30	<=30	Pass

Note1: Antenna Gain: Ant1: 4.75dBi; Ant2: 4.75dBi;

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 Test Result

2.1.1 30k_SISO_100MHz

5G NR n77a SCS=30kHz SISO 100MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3840	Outer_Full	20	LV	-15.00	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	2.20	0.0006	>=-2.5 & <=2.5	Pass
			20	NV	7.40	0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-9.30	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-9.10	-0.0024	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3840	Outer_Full	20	LV	7.10	0.0018	>=-2.5 & <=2.5	Pass
				HV	9.20	0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-7.80	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-10.20	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	6.10	0.0016	>=-2.5 & <=2.5	Pass
			30	NV	4.40	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0014	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3840	Outer_Full	20	LV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-13.70	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	6.80	0.0018	>=-2.5 & <=2.5	Pass
			10	NV	8.40	0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	14.60	0.0038	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3840	Outer_Full	20	LV	-7.80	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-5.40	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-5.00	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-2.00	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	4.00	0.0010	>=-2.5 & <=2.5	Pass



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			40	NV	-14.00	-0.0036	≥ -2.5 & ≤ 2.5	Pass
DFT-s-OFDM 256 QAM	3840	Outer_Full	20	LV	-14.50	-0.0038	≥ -2.5 & ≤ 2.5	Pass
				HV	10.00	0.0026	≥ -2.5 & ≤ 2.5	Pass
			0	NV	2.20	0.0006	≥ -2.5 & ≤ 2.5	Pass
			10	NV	3.60	0.0009	≥ -2.5 & ≤ 2.5	Pass
			20	NV	0.70	0.0002	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-12.40	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			40	NV	2.80	0.0007	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM QPSK	3840	Outer_Full	20	LV	-10.70	-0.0028	≥ -2.5 & ≤ 2.5	Pass
				HV	-3.70	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-13.00	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-7.50	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.40	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			30	NV	6.30	0.0016	≥ -2.5 & ≤ 2.5	Pass
			40	NV	10.30	0.0027	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	3840	Outer_Full	20	LV	8.50	0.0022	≥ -2.5 & ≤ 2.5	Pass
				HV	-14.50	-0.0038	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-2.60	-0.0007	≥ -2.5 & ≤ 2.5	Pass
			10	NV	1.70	0.0004	≥ -2.5 & ≤ 2.5	Pass
			20	NV	4.90	0.0013	≥ -2.5 & ≤ 2.5	Pass
			30	NV	4.40	0.0011	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-6.40	-0.0017	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 64 QAM	3840	Outer_Full	20	LV	-1.90	-0.0005	≥ -2.5 & ≤ 2.5	Pass
				HV	-15.20	-0.0040	≥ -2.5 & ≤ 2.5	Pass
			0	NV	3.10	0.0008	≥ -2.5 & ≤ 2.5	Pass
			10	NV	1.90	0.0005	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-18.40	-0.0048	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-3.00	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			40	NV	2.30	0.0006	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	3840	Outer_Full	20	LV	-5.70	-0.0015	≥ -2.5 & ≤ 2.5	Pass
				HV	-12.20	-0.0032	≥ -2.5 & ≤ 2.5	Pass
			0	NV	5.20	0.0014	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-8.10	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.00	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-3.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			40	NV	4.10	0.0011	≥ -2.5 & ≤ 2.5	Pass



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3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 30k_SISO_10MHz_NTNV

5G NR n77a SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3705	Outer_Full	8.67	9.95	/	Pass
	3840	Outer_Full	8.70	10.18	/	Pass
	3975	Outer_Full	8.69	10.20	/	Pass
DFT-s-OFDM QPSK	3705	Outer_Full	8.71	10.04	/	Pass
	3840	Outer_Full	8.72	10.06	/	Pass
	3975	Outer_Full	8.67	9.74	/	Pass
DFT-s-OFDM 16 QAM	3705	Outer_Full	8.65	9.97	/	Pass
	3840	Outer_Full	8.68	10.14	/	Pass
	3975	Outer_Full	8.66	9.91	/	Pass
DFT-s-OFDM 64 QAM	3705	Outer_Full	8.75	10.19	/	Pass
	3840	Outer_Full	8.70	9.75	/	Pass
	3975	Outer_Full	8.57	9.40	/	Pass
DFT-s-OFDM 256 QAM	3705	Outer_Full	8.60	9.52	/	Pass
	3840	Outer_Full	8.65	10.04	/	Pass
	3975	Outer_Full	8.65	9.60	/	Pass
CP-OFDM QPSK	3705	Outer_Full	8.67	9.74	/	Pass
	3840	Outer_Full	8.74	10.11	/	Pass
	3975	Outer_Full	8.64	9.88	/	Pass
CP-OFDM 16 QAM	3705	Outer_Full	8.62	9.77	/	Pass
	3840	Outer_Full	8.70	9.97	/	Pass
	3975	Outer_Full	8.69	9.79	/	Pass
CP-OFDM 64 QAM	3705	Outer_Full	8.64	10.25	/	Pass
	3840	Outer_Full	8.71	9.90	/	Pass
	3975	Outer_Full	7.73	8.34	/	Pass
CP-OFDM 256 QAM	3705	Outer_Full	8.73	10.38	/	Pass
	3840	Outer_Full	8.69	9.55	/	Pass
	3975	Outer_Full	8.66	10.14	/	Pass



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3.1.2 30k_SISO_15MHz_NTNV

5G NR n77a SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3707.52	Outer_Full	13.05	14.07	/	Pass
	3840	Outer_Full	13.13	14.19	/	Pass
	3972.48	Outer_Full	13.03	14.25	/	Pass
DFT-s-OFDM QPSK	3707.52	Outer_Full	13.05	14.17	/	Pass
	3840	Outer_Full	13.08	14.24	/	Pass
	3972.48	Outer_Full	13.00	14.63	/	Pass
DFT-s-OFDM 16 QAM	3707.52	Outer_Full	13.04	14.32	/	Pass
	3840	Outer_Full	13.03	14.40	/	Pass
	3972.48	Outer_Full	13.01	14.29	/	Pass
DFT-s-OFDM 64 QAM	3707.52	Outer_Full	12.94	13.81	/	Pass
	3840	Outer_Full	13.01	14.50	/	Pass
	3972.48	Outer_Full	12.94	14.35	/	Pass
DFT-s-OFDM 256 QAM	3707.52	Outer_Full	12.99	13.96	/	Pass
	3840	Outer_Full	12.99	14.46	/	Pass
	3972.48	Outer_Full	13.14	14.45	/	Pass
CP-OFDM QPSK	3707.52	Outer_Full	13.66	14.59	/	Pass
	3840	Outer_Full	13.70	14.65	/	Pass
	3972.48	Outer_Full	13.73	15.38	/	Pass
CP-OFDM 16 QAM	3707.52	Outer_Full	13.76	15.34	/	Pass
	3840	Outer_Full	13.70	14.76	/	Pass
	3972.48	Outer_Full	13.71	15.03	/	Pass
CP-OFDM 64 QAM	3707.52	Outer_Full	13.69	14.69	/	Pass
	3840	Outer_Full	13.67	14.85	/	Pass
	3972.48	Outer_Full	13.71	14.81	/	Pass
CP-OFDM 256 QAM	3707.52	Outer_Full	13.75	15.04	/	Pass
	3840	Outer_Full	13.65	15.04	/	Pass
	3972.48	Outer_Full	13.63	14.91	/	Pass

3.1.3 30k_SISO_20MHz_NTNV

5G NR n77a SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict



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DFT-s-OFDM PI/2 BPSK	3710.01	Outer_Full	18.17	19.66	/	Pass
	3840	Outer_Full	18.07	19.26	/	Pass
	3969.99	Outer_Full	18.06	19.33	/	Pass
DFT-s-OFDM QPSK	3710.01	Outer_Full	17.92	19.29	/	Pass
	3840	Outer_Full	18.14	19.55	/	Pass
	3969.99	Outer_Full	18.00	19.56	/	Pass
DFT-s-OFDM 16 QAM	3710.01	Outer_Full	18.03	19.44	/	Pass
	3840	Outer_Full	18.08	19.57	/	Pass
	3969.99	Outer_Full	18.07	19.65	/	Pass
DFT-s-OFDM 64 QAM	3710.01	Outer_Full	17.98	19.53	/	Pass
	3840	Outer_Full	18.04	19.33	/	Pass
	3969.99	Outer_Full	18.12	19.55	/	Pass
DFT-s-OFDM 256 QAM	3710.01	Outer_Full	18.16	19.50	/	Pass
	3840	Outer_Full	18.19	19.29	/	Pass
	3969.99	Outer_Full	17.85	19.36	/	Pass
CP-OFDM QPSK	3710.01	Outer_Full	18.28	20.06	/	Pass
	3840	Outer_Full	18.38	19.90	/	Pass
	3969.99	Outer_Full	18.40	19.95	/	Pass
CP-OFDM 16 QAM	3710.01	Outer_Full	18.30	19.99	/	Pass
	3840	Outer_Full	18.36	19.62	/	Pass
	3969.99	Outer_Full	18.42	19.75	/	Pass
CP-OFDM 64 QAM	3710.01	Outer_Full	18.32	19.62	/	Pass
	3840	Outer_Full	18.44	19.87	/	Pass
	3969.99	Outer_Full	18.33	19.98	/	Pass
CP-OFDM 256 QAM	3710.01	Outer_Full	18.27	19.57	/	Pass
	3840	Outer_Full	18.43	19.81	/	Pass
	3969.99	Outer_Full	18.35	19.77	/	Pass

3.1.4 30k_SISO_30MHz_NTNV

5G NR n77a SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3715.02	Outer_Full	27.05	29.22	/	Pass
	3840	Outer_Full	27.00	29.24	/	Pass
	3964.98	Outer_Full	27.02	29.17	/	Pass
DFT-s-OFDM QPSK	3715.02	Outer_Full	27.03	28.78	/	Pass
	3840	Outer_Full	27.03	28.84	/	Pass



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	3964.98	Outer_Full	27.04	29.27	/	Pass
DFT-s-OFDM 16 QAM	3715.02	Outer_Full	27.05	29.35	/	Pass
	3840	Outer_Full	27.17	28.95	/	Pass
	3964.98	Outer_Full	27.25	28.90	/	Pass
DFT-s-OFDM 64 QAM	3715.02	Outer_Full	27.04	28.85	/	Pass
	3840	Outer_Full	26.95	29.15	/	Pass
	3964.98	Outer_Full	27.09	28.88	/	Pass
DFT-s-OFDM 256 QAM	3715.02	Outer_Full	27.08	28.82	/	Pass
	3840	Outer_Full	27.17	28.80	/	Pass
	3964.98	Outer_Full	26.96	29.00	/	Pass
CP-OFDM QPSK	3715.02	Outer_Full	28.15	30.03	/	Pass
	3840	Outer_Full	28.07	29.91	/	Pass
	3964.98	Outer_Full	27.98	30.09	/	Pass
CP-OFDM 16 QAM	3715.02	Outer_Full	28.00	29.60	/	Pass
	3840	Outer_Full	28.18	30.01	/	Pass
	3964.98	Outer_Full	28.13	30.00	/	Pass
CP-OFDM 64 QAM	3715.02	Outer_Full	27.95	30.03	/	Pass
	3840	Outer_Full	27.99	30.00	/	Pass
	3964.98	Outer_Full	27.98	30.05	/	Pass
CP-OFDM 256 QAM	3715.02	Outer_Full	28.02	29.73	/	Pass
	3840	Outer_Full	28.12	29.90	/	Pass
	3964.98	Outer_Full	28.09	29.96	/	Pass

3.1.5 30k_SISO_40MHz_NTNV

5G NR n77a SCS=30kHz SISO 40MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3720	Outer_Full	35.98	38.37	/	Pass
	3840	Outer_Full	36.03	38.36	/	Pass
	3960	Outer_Full	35.94	38.51	/	Pass
DFT-s-OFDM QPSK	3720	Outer_Full	35.93	38.37	/	Pass
	3840	Outer_Full	35.46	38.67	/	Pass
	3960	Outer_Full	36.10	38.92	/	Pass
DFT-s-OFDM 16 QAM	3720	Outer_Full	35.95	38.66	/	Pass
	3840	Outer_Full	36.00	38.67	/	Pass
	3960	Outer_Full	35.96	38.60	/	Pass
DFT-s-OFDM 64 QAM	3720	Outer_Full	36.01	38.41	/	Pass



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	3840	Outer_Full	36.08	38.60	/	Pass
	3960	Outer_Full	35.78	38.60	/	Pass
DFT-s-OFDM 256 QAM	3720	Outer_Full	36.01	38.34	/	Pass
	3840	Outer_Full	35.62	37.93	/	Pass
	3960	Outer_Full	36.09	38.36	/	Pass
CP-OFDM QPSK	3720	Outer_Full	38.08	40.57	/	Pass
	3840	Outer_Full	38.18	40.57	/	Pass
	3960	Outer_Full	38.23	40.80	/	Pass
CP-OFDM 16 QAM	3720	Outer_Full	38.16	40.69	/	Pass
	3840	Outer_Full	20.59	21.71	/	Pass
	3960	Outer_Full	38.10	40.43	/	Pass
CP-OFDM 64 QAM	3720	Outer_Full	38.17	40.81	/	Pass
	3840	Outer_Full	38.17	40.69	/	Pass
	3960	Outer_Full	38.07	40.49	/	Pass
CP-OFDM 256 QAM	3720	Outer_Full	38.09	40.89	/	Pass
	3840	Outer_Full	38.13	40.61	/	Pass
	3960	Outer_Full	37.99	40.76	/	Pass

3.1.6 30k_SISO_50MHz_NTNV

5G NR n77a SCS=30kHz SISO 50MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3725.01	Outer_Full	45.85	49.09	/	Pass
	3840	Outer_Full	46.21	49.08	/	Pass
	3954.99	Outer_Full	46.06	49.10	/	Pass
DFT-s-OFDM QPSK	3725.01	Outer_Full	45.91	48.91	/	Pass
	3840	Outer_Full	46.05	49.37	/	Pass
	3954.99	Outer_Full	46.02	49.25	/	Pass
DFT-s-OFDM 16 QAM	3725.01	Outer_Full	45.95	48.87	/	Pass
	3840	Outer_Full	46.06	49.08	/	Pass
	3954.99	Outer_Full	45.56	49.02	/	Pass
DFT-s-OFDM 64 QAM	3725.01	Outer_Full	46.16	49.04	/	Pass
	3840	Outer_Full	46.10	48.88	/	Pass
	3954.99	Outer_Full	45.89	49.23	/	Pass
DFT-s-OFDM 256 QAM	3725.01	Outer_Full	46.13	49.13	/	Pass
	3840	Outer_Full	45.90	49.25	/	Pass
	3954.99	Outer_Full	45.88	49.20	/	Pass



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CP-OFDM QPSK	3725.01	Outer_Full	47.70	50.86	/	Pass
	3840	Outer_Full	47.66	50.86	/	Pass
	3954.99	Outer_Full	47.87	50.70	/	Pass
CP-OFDM 16 QAM	3725.01	Outer_Full	47.78	50.99	/	Pass
	3840	Outer_Full	47.75	50.79	/	Pass
	3954.99	Outer_Full	47.67	50.87	/	Pass
CP-OFDM 64 QAM	3725.01	Outer_Full	47.82	51.08	/	Pass
	3840	Outer_Full	47.73	50.90	/	Pass
	3954.99	Outer_Full	47.83	51.06	/	Pass
CP-OFDM 256 QAM	3725.01	Outer_Full	47.78	50.59	/	Pass
	3840	Outer_Full	47.79	51.09	/	Pass
	3954.99	Outer_Full	47.85	51.14	/	Pass

3.1.7 30k_SISO_60MHz_NTNV

5G NR n77a SCS=30kHz SISO 60MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3730.02	Outer_Full	58.14	62.18	/	Pass
	3840	Outer_Full	58.07	61.84	/	Pass
	3949.98	Outer_Full	58.39	61.68	/	Pass
DFT-s-OFDM QPSK	3730.02	Outer_Full	58.43	62.22	/	Pass
	3840	Outer_Full	58.25	62.27	/	Pass
	3949.98	Outer_Full	58.23	62.01	/	Pass
DFT-s-OFDM 16 QAM	3730.02	Outer_Full	58.59	62.33	/	Pass
	3840	Outer_Full	58.23	61.99	/	Pass
	3949.98	Outer_Full	58.21	62.01	/	Pass
DFT-s-OFDM 64 QAM	3730.02	Outer_Full	58.23	62.05	/	Pass
	3840	Outer_Full	58.14	62.10	/	Pass
	3949.98	Outer_Full	58.40	61.70	/	Pass
DFT-s-OFDM 256 QAM	3730.02	Outer_Full	58.26	61.72	/	Pass
	3840	Outer_Full	58.26	62.07	/	Pass
	3949.98	Outer_Full	58.10	62.28	/	Pass
CP-OFDM QPSK	3730.02	Outer_Full	58.22	62.04	/	Pass
	3840	Outer_Full	58.27	61.85	/	Pass
	3949.98	Outer_Full	58.20	61.89	/	Pass
CP-OFDM 16 QAM	3730.02	Outer_Full	57.91	62.21	/	Pass
	3840	Outer_Full	58.06	62.27	/	Pass



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	3949.98	Outer_Full	57.75	62.12	/	Pass
CP-OFDM 64 QAM	3730.02	Outer_Full	58.20	62.08	/	Pass
	3840	Outer_Full	58.19	62.01	/	Pass
	3949.98	Outer_Full	58.16	61.84	/	Pass
CP-OFDM 256 QAM	3730.02	Outer_Full	58.56	62.24	/	Pass
	3840	Outer_Full	58.16	61.80	/	Pass
	3949.98	Outer_Full	58.08	62.00	/	Pass

3.1.8 30k_SISO_70MHz_NTNV

5G NR n77a SCS=30kHz SISO 70MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3735	Outer_Full	65.19	68.75	/	Pass
	3840	Outer_Full	64.76	69.38	/	Pass
	3945	Outer_Full	64.61	69.14	/	Pass
DFT-s-OFDM QPSK	3735	Outer_Full	65.05	69.38	/	Pass
	3840	Outer_Full	65.02	69.04	/	Pass
	3945	Outer_Full	64.80	69.38	/	Pass
DFT-s-OFDM 16 QAM	3735	Outer_Full	65.25	69.47	/	Pass
	3840	Outer_Full	64.45	69.20	/	Pass
	3945	Outer_Full	64.52	69.03	/	Pass
DFT-s-OFDM 64 QAM	3735	Outer_Full	65.15	69.64	/	Pass
	3840	Outer_Full	64.84	69.47	/	Pass
	3945	Outer_Full	64.67	69.48	/	Pass
DFT-s-OFDM 256 QAM	3735	Outer_Full	65.19	69.22	/	Pass
	3840	Outer_Full	65.00	69.24	/	Pass
	3945	Outer_Full	64.83	69.20	/	Pass
CP-OFDM QPSK	3735	Outer_Full	68.25	72.46	/	Pass
	3840	Outer_Full	67.87	72.39	/	Pass
	3945	Outer_Full	67.81	72.67	/	Pass
CP-OFDM 16 QAM	3735	Outer_Full	68.31	72.68	/	Pass
	3840	Outer_Full	67.99	72.85	/	Pass
	3945	Outer_Full	68.07	72.30	/	Pass
CP-OFDM 64 QAM	3735	Outer_Full	68.09	72.65	/	Pass
	3840	Outer_Full	67.94	72.30	/	Pass
	3945	Outer_Full	68.13	73.10	/	Pass
CP-OFDM 256 QAM	3735	Outer_Full	68.15	72.53	/	Pass



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	3840	Outer_Full	67.71	72.19	/	Pass
	3945	Outer_Full	68.03	72.52	/	Pass

3.1.9 30k_SISO_80MHz_NTNV

5G NR n77a SCS=30kHz SISO 80MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3740.01	Outer_Full	77.74	82.69	/	Pass
	3840	Outer_Full	78.02	82.87	/	Pass
	3939.99	Outer_Full	77.86	82.61	/	Pass
DFT-s-OFDM QPSK	3740.01	Outer_Full	77.89	82.20	/	Pass
	3840	Outer_Full	77.56	82.36	/	Pass
	3939.99	Outer_Full	77.95	82.76	/	Pass
DFT-s-OFDM 16 QAM	3740.01	Outer_Full	77.71	82.40	/	Pass
	3840	Outer_Full	77.81	82.93	/	Pass
	3939.99	Outer_Full	77.68	83.01	/	Pass
DFT-s-OFDM 64 QAM	3740.01	Outer_Full	77.68	82.79	/	Pass
	3840	Outer_Full	77.40	82.70	/	Pass
	3939.99	Outer_Full	77.72	82.84	/	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer_Full	77.89	82.95	/	Pass
	3840	Outer_Full	77.48	82.54	/	Pass
	3939.99	Outer_Full	77.62	82.39	/	Pass
CP-OFDM QPSK	3740.01	Outer_Full	77.91	83.05	/	Pass
	3840	Outer_Full	77.75	82.97	/	Pass
	3939.99	Outer_Full	78.01	83.47	/	Pass
CP-OFDM 16 QAM	3740.01	Outer_Full	78.25	82.70	/	Pass
	3840	Outer_Full	78.06	83.10	/	Pass
	3939.99	Outer_Full	78.06	83.09	/	Pass
CP-OFDM 64 QAM	3740.01	Outer_Full	78.06	83.29	/	Pass
	3840	Outer_Full	77.84	83.17	/	Pass
	3939.99	Outer_Full	78.02	83.00	/	Pass
CP-OFDM 256 QAM	3740.01	Outer_Full	78.34	83.10	/	Pass
	3840	Outer_Full	78.22	82.77	/	Pass
	3939.99	Outer_Full	77.78	83.14	/	Pass



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3.1.10 30k_SISO_90MHz_NTNV

5G NR n77a SCS=30kHz SISO 90MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3745.02	Outer_Full	87.55	93.09	/	Pass
	3840	Outer_Full	87.26	92.79	/	Pass
	3934.98	Outer_Full	87.08	92.77	/	Pass
DFT-s-OFDM QPSK	3745.02	Outer_Full	87.41	92.66	/	Pass
	3840	Outer_Full	87.58	92.93	/	Pass
	3934.98	Outer_Full	87.59	93.30	/	Pass
DFT-s-OFDM 16 QAM	3745.02	Outer_Full	87.14	93.19	/	Pass
	3840	Outer_Full	87.12	92.91	/	Pass
	3934.98	Outer_Full	87.44	93.24	/	Pass
DFT-s-OFDM 64 QAM	3745.02	Outer_Full	87.30	92.47	/	Pass
	3840	Outer_Full	87.23	92.74	/	Pass
	3934.98	Outer_Full	87.61	92.77	/	Pass
DFT-s-OFDM 256 QAM	3745.02	Outer_Full	87.62	92.96	/	Pass
	3840	Outer_Full	87.44	93.06	/	Pass
	3934.98	Outer_Full	87.87	92.97	/	Pass
CP-OFDM QPSK	3745.02	Outer_Full	88.34	93.70	/	Pass
	3840	Outer_Full	87.91	93.43	/	Pass
	3934.98	Outer_Full	88.08	93.52	/	Pass
CP-OFDM 16 QAM	3745.02	Outer_Full	88.06	93.91	/	Pass
	3840	Outer_Full	88.19	93.54	/	Pass
	3934.98	Outer_Full	88.29	93.64	/	Pass
CP-OFDM 64 QAM	3745.02	Outer_Full	88.06	94.01	/	Pass
	3840	Outer_Full	87.98	93.50	/	Pass
	3934.98	Outer_Full	88.23	93.27	/	Pass
CP-OFDM 256 QAM	3745.02	Outer_Full	87.81	93.54	/	Pass
	3840	Outer_Full	87.93	93.83	/	Pass
	3934.98	Outer_Full	87.98	93.52	/	Pass



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3.1.11 30k_SISO_100MHz_NTNV

5G NR n77a SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	97.02	103.32	/	Pass
	3840	Outer_Full	96.82	103.53	/	Pass
	3930	Outer_Full	96.41	102.99	/	Pass
DFT-s-OFDM QPSK	3750	Outer_Full	69.46	73.35	/	Pass
	3840	Outer_Full	97.47	103.02	/	Pass
	3930	Outer_Full	97.77	103.45	/	Pass
DFT-s-OFDM 16 QAM	3750	Outer_Full	96.89	102.97	/	Pass
	3840	Outer_Full	97.12	103.32	/	Pass
	3930	Outer_Full	97.29	103.38	/	Pass
DFT-s-OFDM 64 QAM	3750	Outer_Full	97.26	103.18	/	Pass
	3840	Outer_Full	97.19	103.24	/	Pass
	3930	Outer_Full	96.99	102.87	/	Pass
DFT-s-OFDM 256 QAM	3750	Outer_Full	97.10	103.55	/	Pass
	3840	Outer_Full	97.24	103.49	/	Pass
	3930	Outer_Full	96.89	103.63	/	Pass
CP-OFDM QPSK	3750	Outer_Full	97.89	104.42	/	Pass
	3840	Outer_Full	98.26	104.10	/	Pass
	3930	Outer_Full	98.80	104.22	/	Pass
CP-OFDM 16 QAM	3750	Outer_Full	98.31	104.39	/	Pass
	3840	Outer_Full	98.42	104.76	/	Pass
	3930	Outer_Full	98.19	104.14	/	Pass
CP-OFDM 64 QAM	3750	Outer_Full	98.11	104.54	/	Pass
	3840	Outer_Full	97.45	104.55	/	Pass
	3930	Outer_Full	98.59	104.70	/	Pass
CP-OFDM 256 QAM	3750	Outer_Full	98.25	104.50	/	Pass
	3840	Outer_Full	97.89	104.53	/	Pass
	3930	Outer_Full	98.52	104.16	/	Pass



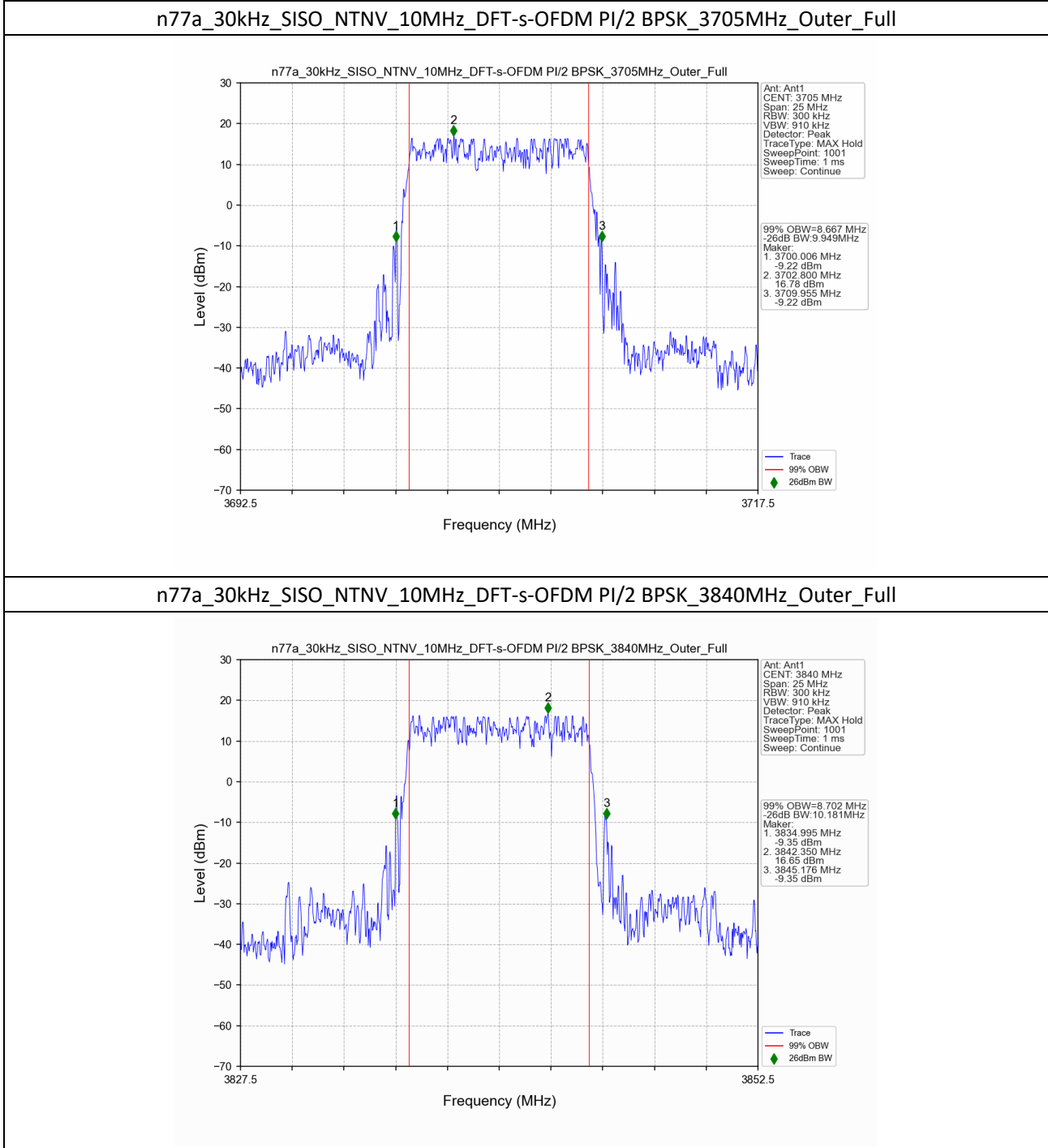
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3.2 Test Graph

3.2.1 30k_SISO_10MHz_NTNV

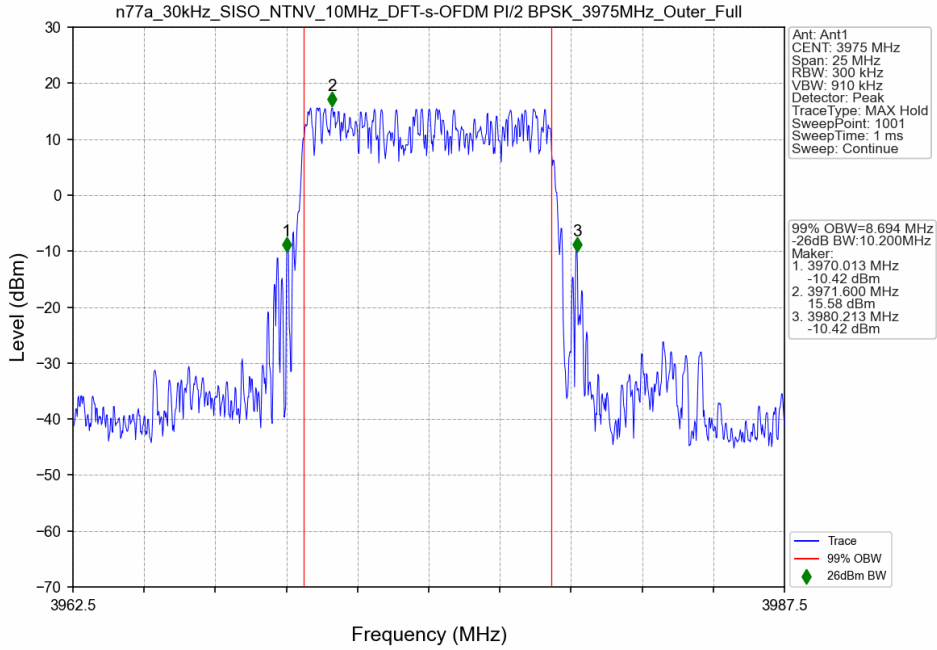


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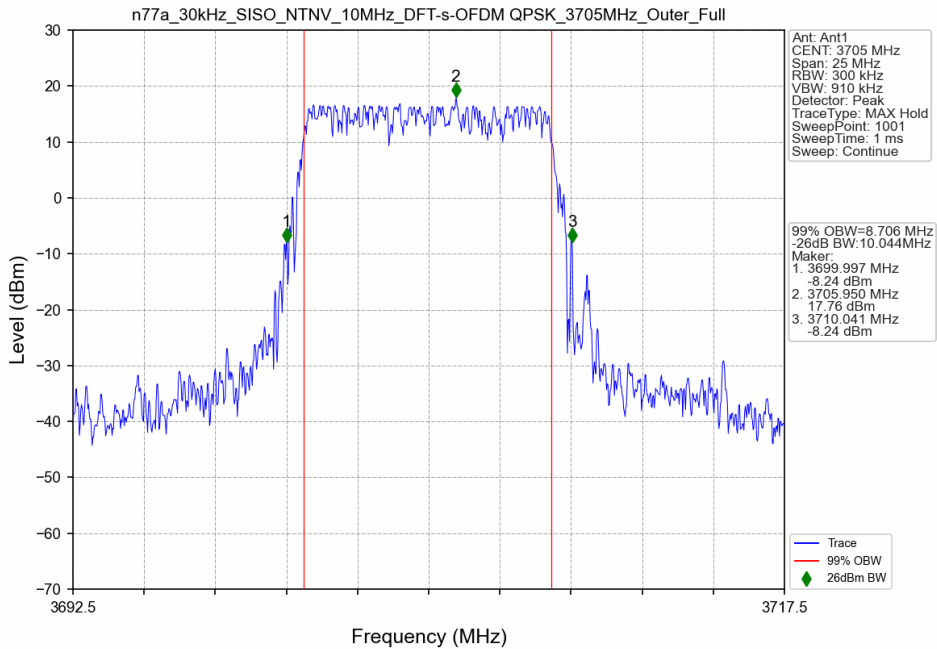
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n77a_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3975MHz_Outer_Full



n77a_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3705MHz_Outer_Full



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