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Appendix C.6

LTE Band n48

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1. Effective (Isotropic) Radiated Power Output Data

1.1.1 30k_MIMO_10MHz_NTNV_EIRP

Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Edge_1RB_Left	6.95	7.87	10.44	13.00	13.92	16.49	/	Pass
		Edge_1RB_Right	7.35	7.65	10.51	13.40	13.70	16.56	/	Pass
		Outer_Full	12.39	12.95	15.69	18.44	19.00	21.74	/	Pass
		Inner_Full	19.35	19.95	22.67	25.40	26.00	28.72	/	Pass
		Inner_1RB_Left	19.11	20.05	22.61	25.16	26.10	28.67	/	Pass
		Inner_1RB_Right	19.64	20.36	23.02	25.69	26.41	29.08	/	Pass
	3624.99	Edge_1RB_Left	16.89	17.25	20.09	22.94	23.30	26.13	/	Pass
		Edge_1RB_Right	16.95	17.29	20.14	23.00	23.34	26.18	/	Pass
		Outer_Full	16.96	17.37	20.18	23.01	23.42	26.23	/	Pass
		Inner_Full	18.67	18.92	21.80	24.72	24.97	27.86	/	Pass
		Inner_1RB_Left	18.44	18.80	21.63	24.49	24.85	27.68	/	Pass
		Inner_1RB_Right	18.45	18.84	21.66	24.50	24.89	27.71	/	Pass
	3694.98	Edge_1RB_Left	10.26	10.15	13.21	16.31	16.20	19.27	/	Pass
		Edge_1RB_Right	10.25	10.13	13.20	16.30	16.18	19.25	/	Pass
		Outer_Full	15.40	15.29	18.35	21.45	21.34	24.41	/	Pass
		Inner_Full	20.32	20.32	23.33	26.37	26.37	29.38	/	Pass
		Inner_1RB_Left	20.20	20.22	23.22	26.25	26.27	29.27	/	Pass
		Inner_1RB_Right	20.36	20.35	23.37	26.41	26.40	29.42	/	Pass
CP-OFDM 16 QAM	3555	Edge_1RB_Left	6.97	7.80	10.41	13.02	13.85	16.47	/	Pass
		Edge_1RB_Right	7.32	7.89	10.63	13.37	13.94	16.67	/	Pass
		Outer_Full	12.38	13.06	15.74	18.43	19.11	21.79	/	Pass
		Inner_Full	19.40	19.94	22.69	25.45	25.99	28.74	/	Pass
		Inner_1RB_Left	18.93	20.19	22.61	24.98	26.24	28.67	/	Pass
		Inner_1RB_Right	19.49	20.23	22.89	25.54	26.28	28.94	/	Pass
	3624.99	Edge_1RB_Left	17.06	17.38	20.23	23.11	23.43	26.28	/	Pass
		Edge_1RB_Right	16.80	17.38	20.11	22.85	23.43	26.16	/	Pass
		Outer_Full	16.98	17.38	20.20	23.03	23.43	26.24	/	Pass
		Inner_Full	17.97	18.49	21.25	24.02	24.54	27.30	/	Pass
		Inner_1RB_Left	17.97	18.59	21.30	24.02	24.64	27.35	/	Pass
		Inner_1RB_Right	18.10	18.51	21.32	24.15	24.56	27.37	/	Pass

The table title spanning all columns: **5G NR n48 SCS=30kHz MIMO 10MHz NTNV**

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	3694.98	Edge_1RB_Left	10.27	10.21	13.25	16.32	16.26	19.30	/	Pass
		Edge_1RB_Right	10.27	10.04	13.17	16.32	16.09	19.22	/	Pass
		Outer_Full	15.36	15.33	18.36	21.41	21.38	24.41	/	Pass
		Inner_Full	20.33	20.34	23.34	26.38	26.39	29.40	/	Pass
		Inner_1RB_Left	20.22	20.37	23.31	26.27	26.42	29.36	/	Pass
		Inner_1RB_Right	20.30	20.26	23.29	26.35	26.31	29.34	/	Pass
CP-OFDM 64 QAM	3555	Edge_1RB_Left	6.99	7.82	10.43	13.04	13.87	16.49	/	Pass
		Edge_1RB_Right	6.21	6.35	9.29	12.26	12.40	15.34	/	Pass
		Outer_Full	12.44	12.97	15.72	18.49	19.02	21.77	/	Pass
		Inner_Full	19.39	20.00	22.72	25.44	26.05	28.77	/	Pass
		Inner_1RB_Left	18.99	20.11	22.60	25.04	26.16	28.65	/	Pass
		Inner_1RB_Right	19.50	19.77	22.65	25.55	25.82	28.70	/	Pass
	3624.99	Edge_1RB_Left	16.62	16.72	19.68	22.67	22.77	25.73	/	Pass
		Edge_1RB_Right	16.37	16.92	19.66	22.42	22.97	25.71	/	Pass
		Outer_Full	16.68	16.90	19.80	22.73	22.95	25.85	/	Pass
		Inner_Full	16.64	16.96	19.81	22.69	23.01	25.86	/	Pass
		Inner_1RB_Left	16.67	16.89	19.79	22.72	22.94	25.84	/	Pass
		Inner_1RB_Right	16.50	16.79	19.66	22.55	22.84	25.71	/	Pass
	3694.98	Edge_1RB_Left	10.09	10.31	13.21	16.14	16.36	19.26	/	Pass
		Edge_1RB_Right	10.17	10.19	13.19	16.22	16.24	19.24	/	Pass
		Outer_Full	15.44	15.38	18.42	21.49	21.43	24.47	/	Pass
		Inner_Full	20.37	20.25	23.32	26.42	26.30	29.37	/	Pass
		Inner_1RB_Left	20.24	20.23	23.24	26.29	26.28	29.30	/	Pass
		Inner_1RB_Right	20.41	20.24	23.33	26.46	26.29	29.39	/	Pass
CP-OFDM 256 QAM	3555	Edge_1RB_Left	7.04	7.97	10.54	13.09	14.02	16.59	/	Pass
		Edge_1RB_Right	7.40	7.65	10.54	13.45	13.70	16.59	/	Pass
		Outer_Full	12.40	12.99	15.72	18.45	19.04	21.77	/	Pass
		Inner_Full	19.25	20.04	22.67	25.30	26.09	28.72	/	Pass
		Inner_1RB_Left	19.29	20.03	22.69	25.34	26.08	28.74	/	Pass
		Inner_1RB_Right	19.61	19.97	22.81	25.66	26.02	28.85	/	Pass
	3624.99	Edge_1RB_Left	13.46	13.74	16.61	19.51	19.79	22.66	/	Pass
		Edge_1RB_Right	13.54	13.93	16.75	19.59	19.98	22.80	/	Pass
		Outer_Full	13.61	14.00	16.82	19.66	20.05	22.87	/	Pass
		Inner_Full	13.60	13.93	16.78	19.65	19.98	22.83	/	Pass
		Inner_1RB_Left	13.72	13.68	16.71	19.77	19.73	22.76	/	Pass
		Inner_1RB_Right	13.50	13.89	16.71	19.55	19.94	22.76	/	Pass
	3694.98	Edge_1RB_Left	10.25	10.16	13.22	16.30	16.21	19.27	/	Pass
		Edge_1RB_Right	10.22	10.25	13.25	16.27	16.30	19.30	/	Pass

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Outer_Full	15.49	15.46	18.49	21.54	21.51	24.54	/	Pass
Inner_Full	20.39	20.31	23.36	26.44	26.36	29.41	/	Pass
Inner_1RB_Left	20.10	20.41	23.27	26.15	26.46	29.32	/	Pass
Inner_1RB_Right	20.27	20.27	23.28	26.32	26.32	29.33	/	Pass

Note1: Antenna Gain: Ant1: 6.05dBi;   Ant2: 6.05dBi;

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_10MHz_NTNV_EIRP(dBm/10MHz)

			Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
Modulation	Frequency (MHz)	RB Allocation	Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
		Edge_1RB_Left	7.77	-42.76	7.77	13.82	-36.71	13.82	<=47	Pass
		Edge_1RB_Right	7.01	6.88	9.96	13.06	12.93	16.01	<=47	Pass
	3555	Outer_Full	11.53	12.63	15.13	17.58	18.68	21.18	<=47	Pass
		Inner_Full	19.22	19.60	22.42	25.27	25.65	28.47	<=47	Pass
		Inner_1RB_Left	19.10	20.28	22.74	25.15	26.33	28.79	<=47	Pass
		Inner_1RB_Right	18.27	19.11	21.72	24.32	25.16	27.77	<=47	Pass
		Edge_1RB_Left	15.00	15.59	18.32	21.05	21.64	24.37	<=47	Pass
		Edge_1RB_Right	15.32	15.03	18.19	21.37	21.08	24.24	<=47	Pass
CP-OFDM QPSK	3624.99	Outer_Full	16.14	15.32	18.76	22.19	21.37	24.81	<=47	Pass
		Inner_Full	17.12	16.88	20.01	23.17	22.93	26.06	<=47	Pass
		Inner_1RB_Left	17.66	16.01	19.92	23.71	22.06	25.97	<=47	Pass
		Inner_1RB_Right	16.84	16.96	19.91	22.89	23.01	25.96	<=47	Pass
		Edge_1RB_Left	8.07	7.84	10.97	14.12	13.89	17.02	<=47	Pass
		Edge_1RB_Right	8.32	8.71	11.53	14.37	14.76	17.58	<=47	Pass
	3694.98	Outer_Full	15.14	14.22	17.71	21.19	20.27	23.76	<=47	Pass
		Inner_Full	19.78	17.54	21.81	25.83	23.59	27.86	<=47	Pass
		Inner_1RB_Left	15.72	14.92	18.35	21.77	20.97	24.40	<=47	Pass
		Inner_1RB_Right	16.88	15.73	19.35	22.93	21.78	25.40	<=47	Pass
		Edge_1RB_Left	6.80	7.30	10.07	12.85	13.35	16.12	<=47	Pass
		Edge_1RB_Right	6.49	-42.71	6.49	12.54	-36.66	12.54	<=47	Pass
CP-OFDM 16 QAM	3555	Outer_Full	12.27	10.68	14.56	18.32	16.73	20.61	<=47	Pass
		Inner_Full	19.40	19.18	22.30	25.45	25.23	28.35	<=47	Pass
		Inner_1RB_Left	19.06	19.21	22.15	25.11	25.26	28.20	<=47	Pass
		Inner_1RB_Right	18.68	19.76	22.26	24.73	25.81	28.31	<=47	Pass

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	3624.99	Edge_1RB_Left	16.34	15.43	18.92	22.39	21.48	24.97	<=47	Pass
		Edge_1RB_Right	16.00	15.73	18.88	22.05	21.78	24.93	<=47	Pass
		Outer_Full	15.41	15.41	18.42	21.46	21.46	24.47	<=47	Pass
		Inner_Full	17.12	16.29	19.74	23.17	22.34	25.79	<=47	Pass
		Inner_1RB_Left	16.83	16.90	19.88	22.88	22.95	25.93	<=47	Pass
		Inner_1RB_Right	16.91	16.67	19.80	22.96	22.72	25.85	<=47	Pass
	3694.98	Edge_1RB_Left	9.90	8.87	12.43	15.95	14.92	18.48	<=47	Pass
		Edge_1RB_Right	10.59	8.04	12.51	16.64	14.09	18.56	<=47	Pass
		Outer_Full	15.27	12.77	17.21	21.32	18.82	23.26	<=47	Pass
		Inner_Full	18.65	17.64	21.18	24.70	23.69	27.23	<=47	Pass
		Inner_1RB_Left	16.86	14.07	18.70	22.91	20.12	24.75	<=47	Pass
		Inner_1RB_Right	15.89	15.37	18.65	21.94	21.42	24.70	<=47	Pass
CP-OFDM 64 QAM	3555	Edge_1RB_Left	7.15	7.08	10.13	13.20	13.13	16.18	<=47	Pass
		Edge_1RB_Right	7.08	6.21	9.68	13.13	12.26	15.73	<=47	Pass
		Outer_Full	12.83	12.64	15.75	18.88	18.69	21.80	<=47	Pass
		Inner_Full	19.15	18.80	21.99	25.20	24.85	28.04	<=47	Pass
		Inner_1RB_Left	19.02	-41.62	19.02	25.07	-35.57	25.07	<=47	Pass
		Inner_1RB_Right	19.55	20.26	22.93	25.60	26.31	28.98	<=47	Pass
	3624.99	Edge_1RB_Left	16.38	15.74	19.08	22.43	21.79	25.13	<=47	Pass
		Edge_1RB_Right	15.24	15.20	18.23	21.29	21.25	24.28	<=47	Pass
		Outer_Full	15.04	15.56	18.32	21.09	21.61	24.37	<=47	Pass
		Inner_Full	15.13	15.38	18.27	21.18	21.43	24.32	<=47	Pass
		Inner_1RB_Left	15.70	15.45	18.59	21.75	21.50	24.64	<=47	Pass
		Inner_1RB_Right	14.72	15.65	18.22	20.77	21.70	24.27	<=47	Pass
	3694.98	Edge_1RB_Left	9.09	8.19	11.67	15.14	14.24	17.72	<=47	Pass
		Edge_1RB_Right	9.91	9.10	12.53	15.96	15.15	18.58	<=47	Pass
		Outer_Full	15.08	13.56	17.40	21.13	19.61	23.45	<=47	Pass
		Inner_Full	18.91	16.95	21.05	24.96	23.00	27.10	<=47	Pass
		Inner_1RB_Left	16.25	14.48	18.46	22.30	20.53	24.51	<=47	Pass
		Inner_1RB_Right	16.18	14.42	18.40	22.23	20.47	24.45	<=47	Pass
CP-OFDM 256 QAM	3555	Edge_1RB_Left	6.08	7.46	9.83	12.13	13.51	15.88	<=47	Pass
		Edge_1RB_Right	5.26	6.70	9.05	11.31	12.75	15.10	<=47	Pass
		Outer_Full	12.43	11.86	15.16	18.48	17.91	21.21	<=47	Pass
		Inner_Full	18.66	18.94	21.81	24.71	24.99	27.86	<=47	Pass
		Inner_1RB_Left	20.73	-41.85	20.73	26.78	-35.80	26.78	<=47	Pass
		Inner_1RB_Right	19.06	19.32	22.20	25.11	25.37	28.25	<=47	Pass
	3624.99	Edge_1RB_Left	11.17	12.36	14.82	17.22	18.41	20.87	<=47	Pass
		Edge_1RB_Right	11.48	12.02	14.77	17.53	18.07	20.82	<=47	Pass

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	Outer_Full	12.75	11.92	15.37	18.80	17.97	21.42	<=47	Pass
	Inner_Full	12.43	11.06	14.81	18.48	17.11	20.86	<=47	Pass
	Inner_1RB_Left	12.72	11.22	15.04	18.77	17.27	21.09	<=47	Pass
	Inner_1RB_Right	12.26	11.26	14.80	18.31	17.31	20.85	<=47	Pass
3694.98	Edge_1RB_Left	8.83	8.17	11.52	14.88	14.22	17.57	<=47	Pass
	Edge_1RB_Right	8.78	8.51	11.66	14.83	14.56	17.71	<=47	Pass
	Outer_Full	15.34	14.19	17.81	21.39	20.24	23.86	<=47	Pass
	Inner_Full	19.21	17.84	21.59	25.26	23.89	27.64	<=47	Pass
	Inner_1RB_Left	16.57	14.73	18.76	22.62	20.78	24.81	<=47	Pass
	Inner_1RB_Right	15.57	15.19	18.39	21.62	21.24	24.44	<=47	Pass

Note1: Antenna Gain: Ant1: 6.05dBi; Ant2: 6.05dBi;

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

1.1.3 30k_MIMO_10MHz_NTNV_PSD

5G NR n48 SCS=30kHz MIMO 10MHz NTNV									
Modulation	Frequency (MHz)	RB Allocation	Conducted PSD(dBm/MHz)			E.I.R.PSD(dBm/MHz)			Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Edge_1RB_Left	7.94	7.42	10.02	13.99	13.47	16.07	<=37	Pass
		Edge_1RB_Right	8.65	8.25	11.16	14.70	14.30	17.21	<=37	Pass
		Outer_Full	4.58	4.20	7.11	10.63	10.25	13.16	<=37	Pass
		Inner_Full	14.12	14.42	16.86	20.17	20.47	22.91	<=37	Pass
		Inner_1RB_Left	19.43	20.35	22.61	25.48	26.40	28.66	<=37	Pass
		Inner_1RB_Right	19.55	-48.94	19.55	25.60	-42.89	25.60	<=37	Pass
	3624.99	Edge_1RB_Left	16.98	17.44	20.23	23.03	23.49	26.28	<=37	Pass
		Edge_1RB_Right	17.75	17.29	19.64	23.80	23.34	25.69	<=37	Pass
		Outer_Full	8.91	9.19	11.75	14.96	15.24	17.80	<=37	Pass
		Inner_Full	11.84	11.73	14.20	17.89	17.78	20.25	<=37	Pass
		Inner_1RB_Left	18.83	19.65	22.22	24.88	25.70	28.27	<=37	Pass
		Inner_1RB_Right	18.40	19.12	21.44	24.45	25.17	27.49	<=37	Pass
	3694.98	Edge_1RB_Left	11.00	11.42	13.79	17.05	17.47	19.84	<=37	Pass
		Edge_1RB_Right	11.40	10.78	13.93	17.45	16.83	19.98	<=37	Pass
		Outer_Full	7.47	7.34	9.98	13.52	13.39	16.03	<=37	Pass
		Inner_Full	11.62	11.22	14.18	17.67	17.27	20.23	<=37	Pass
		Inner_1RB_Left	16.15	15.73	18.95	22.20	21.78	25.00	<=37	Pass
		Inner_1RB_Right	16.37	17.17	19.65	22.42	23.22	25.70	<=37	Pass

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		Edge_1RB_Left	7.36	7.28	10.14	13.41	13.33	16.19	<=37	Pass
CP-OFDM 16 QAM	3555	Edge_1RB_Right	7.69	8.41	10.83	13.74	14.46	16.88	<=37	Pass
		Outer_Full	5.13	4.75	7.34	11.18	10.80	13.39	<=37	Pass
		Inner_Full	14.30	-47.79	14.30	20.35	-41.74	20.35	<=37	Pass
		Inner_1RB_Left	19.56	21.00	23.15	25.61	27.05	29.20	<=37	Pass
		Inner_1RB_Right	19.62	20.20	22.67	25.67	26.25	28.72	<=37	Pass
	3624.99	Edge_1RB_Left	18.11	17.79	20.40	24.16	23.84	26.45	<=37	Pass
		Edge_1RB_Right	16.55	17.48	19.15	22.60	23.53	25.20	<=37	Pass
		Outer_Full	9.28	9.83	11.98	15.33	15.88	18.03	<=37	Pass
		Inner_Full	12.36	12.19	14.97	18.41	18.24	21.02	<=37	Pass
		Inner_1RB_Left	18.95	17.70	21.38	25.00	23.75	27.43	<=37	Pass
		Inner_1RB_Right	18.51	18.59	21.27	24.56	24.64	27.32	<=37	Pass
	3694.98	Edge_1RB_Left	10.55	10.45	13.35	16.60	16.50	19.40	<=37	Pass
		Edge_1RB_Right	10.10	11.92	13.58	16.15	17.97	19.63	<=37	Pass
		Outer_Full	8.25	7.12	10.65	14.30	13.17	16.70	<=37	Pass
		Inner_Full	11.89	11.31	14.43	17.94	17.36	20.48	<=37	Pass
		Inner_1RB_Left	15.88	16.54	18.98	21.93	22.59	25.03	<=37	Pass
		Inner_1RB_Right	16.81	16.25	19.43	22.86	22.30	25.48	<=37	Pass
CP-OFDM 64 QAM	3555	Edge_1RB_Left	7.69	8.68	10.80	13.74	14.73	16.85	<=37	Pass
		Edge_1RB_Right	7.27	7.78	10.24	13.32	13.83	16.29	<=37	Pass
		Outer_Full	5.06	5.38	7.62	11.11	11.43	13.67	<=37	Pass
		Inner_Full	14.75	14.00	16.75	20.80	20.05	22.80	<=37	Pass
		Inner_1RB_Left	20.12	20.02	22.25	26.17	26.07	28.30	<=37	Pass
		Inner_1RB_Right	18.66	19.89	21.78	24.71	25.94	27.83	<=37	Pass
	3624.99	Edge_1RB_Left	17.86	16.48	19.99	23.91	22.53	26.04	<=37	Pass
		Edge_1RB_Right	17.50	17.02	19.41	23.55	23.07	25.46	<=37	Pass
		Outer_Full	8.79	8.89	11.25	14.84	14.94	17.30	<=37	Pass
		Inner_Full	11.18	12.18	14.35	17.23	18.23	20.40	<=37	Pass
		Inner_1RB_Left	15.86	18.74	20.13	21.91	24.79	26.18	<=37	Pass
		Inner_1RB_Right	16.43	17.78	19.53	22.48	23.83	25.58	<=37	Pass
	3694.98	Edge_1RB_Left	9.76	9.82	12.80	15.81	15.87	18.85	<=37	Pass
		Edge_1RB_Right	10.63	11.86	14.08	16.68	17.91	20.13	<=37	Pass
		Outer_Full	6.94	7.27	9.79	12.99	13.32	15.84	<=37	Pass
		Inner_Full	12.05	11.27	14.21	18.10	17.32	20.26	<=37	Pass
		Inner_1RB_Left	16.03	17.07	19.57	22.08	23.12	25.62	<=37	Pass
		Inner_1RB_Right	16.05	16.05	18.89	22.10	22.10	24.94	<=37	Pass
CP-OFDM 256 QAM	3555	Edge_1RB_Left	8.78	9.09	11.74	14.83	15.14	17.79	<=37	Pass
		Edge_1RB_Right	8.16	-48.08	8.16	14.21	-42.03	14.21	<=37	Pass

		Outer_Full	5.74	3.91	7.43	11.79	9.96	13.48	<=37	Pass
		Inner_Full	15.35	13.43	17.03	21.40	19.48	23.08	<=37	Pass
		Inner_1RB_Left	19.67	19.99	22.54	25.72	26.04	28.59	<=37	Pass
		Inner_1RB_Right	20.20	19.89	22.91	26.25	25.94	28.96	<=37	Pass
	3624.99	Edge_1RB_Left	13.36	14.55	16.57	19.41	20.60	22.62	<=37	Pass
		Edge_1RB_Right	12.65	13.88	16.21	18.70	19.93	22.26	<=37	Pass
		Outer_Full	5.28	6.53	8.40	11.33	12.58	14.45	<=37	Pass
		Inner_Full	8.26	9.24	11.49	14.31	15.29	17.54	<=37	Pass
		Inner_1RB_Left	14.17	14.89	17.24	20.22	20.94	23.29	<=37	Pass
		Inner_1RB_Right	12.71	15.15	16.35	18.76	21.20	22.40	<=37	Pass
	3694.98	Edge_1RB_Left	10.97	10.26	13.30	17.02	16.31	19.35	<=37	Pass
		Edge_1RB_Right	12.38	11.55	14.83	18.43	17.60	20.88	<=37	Pass
		Outer_Full	7.06	7.77	9.85	13.11	13.82	15.90	<=37	Pass
		Inner_Full	11.28	10.82	13.90	17.33	16.87	19.95	<=37	Pass
		Inner_1RB_Left	15.32	15.74	18.44	21.37	21.79	24.49	<=37	Pass
		Inner_1RB_Right	16.63	15.90	19.23	22.68	21.95	25.28	<=37	Pass

Note1: Antenna Gain: Ant1: 6.05dBi;   Ant2: 6.05dBi;

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_20MHz_NTNV_EIRP

5G NR n48 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	3560.01	Edge_1RB_Left	7.09	8.01	10.58	13.14	14.06	16.63	/	Pass
		Edge_1RB_Right	7.93	7.83	10.89	13.98	13.88	16.94	/	Pass
		Outer_Full	12.77	13.07	15.93	18.82	19.12	21.98	/	Pass
		Inner_Full	19.71	20.16	22.95	25.76	26.21	29.00	/	Pass
		Inner_1RB_Left	19.41	20.04	22.75	25.46	26.09	28.80	/	Pass
		Inner_1RB_Right	19.95	20.06	23.02	26.00	26.11	29.07	/	Pass
	3624.99	Edge_1RB_Left	17.21	17.47	20.35	23.26	23.52	26.40	/	Pass
		Edge_1RB_Right	17.01	17.60	20.33	23.06	23.65	26.38	/	Pass
		Outer_Full	17.13	17.55	20.36	23.18	23.60	26.41	/	Pass
		Inner_Full	18.65	19.01	21.84	24.70	25.06	27.89	/	Pass
		Inner_1RB_Left	18.65	18.89	21.78	24.70	24.94	27.83	/	Pass
		Inner_1RB_Right	18.78	19.08	21.94	24.83	25.13	27.99	/	Pass
	3690	Edge_1RB_Left	10.52	10.32	13.43	16.57	16.37	19.48	/	Pass

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		Edge_1RB_Right	10.39	10.38	13.40	16.44	16.43	19.45	/	Pass
		Outer_Full	15.41	15.46	18.44	21.46	21.51	24.50	/	Pass
		Inner_Full	20.45	20.41	23.44	26.50	26.46	29.49	/	Pass
		Inner_1RB_Left	20.50	20.41	23.47	26.55	26.46	29.52	/	Pass
		Inner_1RB_Right	20.45	20.35	23.41	26.50	26.40	29.46	/	Pass
CP-OFDM 16 QAM	3560.01	Edge_1RB_Left	7.09	7.89	10.52	13.14	13.94	16.57	/	Pass
		Edge_1RB_Right	7.79	8.07	10.94	13.84	14.12	16.99	/	Pass
		Outer_Full	12.77	13.08	15.94	18.82	19.13	21.99	/	Pass
		Inner_Full	19.67	20.12	22.91	25.72	26.17	28.96	/	Pass
		Inner_1RB_Left	19.44	20.28	22.89	25.49	26.33	28.94	/	Pass
		Inner_1RB_Right	19.84	19.91	22.89	25.89	25.96	28.94	/	Pass
	3624.99	Edge_1RB_Left	17.28	17.53	20.41	23.33	23.58	26.47	/	Pass
		Edge_1RB_Right	17.24	17.71	20.49	23.29	23.76	26.54	/	Pass
		Outer_Full	17.16	17.51	20.35	23.21	23.56	26.40	/	Pass
		Inner_Full	18.07	18.55	21.33	24.12	24.60	27.38	/	Pass
		Inner_1RB_Left	18.11	18.48	21.31	24.16	24.53	27.36	/	Pass
		Inner_1RB_Right	18.10	18.67	21.40	24.15	24.72	27.45	/	Pass
	3690	Edge_1RB_Left	10.33	10.47	13.41	16.38	16.52	19.46	/	Pass
		Edge_1RB_Right	10.56	10.59	13.59	16.61	16.64	19.64	/	Pass
		Outer_Full	15.45	15.52	18.49	21.50	21.57	24.55	/	Pass
		Inner_Full	20.47	20.46	23.47	26.52	26.51	29.53	/	Pass
		Inner_1RB_Left	20.55	20.33	23.45	26.60	26.38	29.50	/	Pass
		Inner_1RB_Right	20.71	20.34	23.54	26.76	26.39	29.59	/	Pass
CP-OFDM 64 QAM	3560.01	Edge_1RB_Left	7.20	8.22	10.75	13.25	14.27	16.80	/	Pass
		Edge_1RB_Right	3.57	3.85	6.72	9.62	9.90	12.77	/	Pass
		Outer_Full	12.84	13.19	16.03	18.89	19.24	22.08	/	Pass
		Inner_Full	19.76	20.24	23.02	25.81	26.29	29.07	/	Pass
		Inner_1RB_Left	19.30	20.14	22.75	25.35	26.19	28.80	/	Pass
		Inner_1RB_Right	19.99	19.88	22.95	26.04	25.93	29.00	/	Pass
	3624.99	Edge_1RB_Left	16.81	16.90	19.87	22.86	22.95	25.92	/	Pass
		Edge_1RB_Right	16.91	17.02	19.98	22.96	23.07	26.03	/	Pass
		Outer_Full	16.71	17.12	19.93	22.76	23.17	25.98	/	Pass
		Inner_Full	16.68	17.03	19.87	22.73	23.08	25.92	/	Pass
		Inner_1RB_Left	16.81	16.98	19.91	22.86	23.03	25.96	/	Pass
		Inner_1RB_Right	16.64	17.23	19.95	22.69	23.28	26.01	/	Pass
	3690	Edge_1RB_Left	10.46	10.59	13.54	16.51	16.64	19.59	/	Pass
		Edge_1RB_Right	10.25	10.38	13.33	16.30	16.43	19.38	/	Pass
		Outer_Full	15.44	15.44	18.45	21.49	21.49	24.50	/	Pass

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		Inner_Full	20.44	20.49	23.48	26.49	26.54	29.53	/	Pass
		Inner_1RB_Left	20.32	20.33	23.34	26.37	26.38	29.39	/	Pass
		Inner_1RB_Right	20.43	20.20	23.33	26.48	26.25	29.38	/	Pass
CP-OFDM 256 QAM	3560.01	Edge_1RB_Left	7.33	8.09	10.74	13.38	14.14	16.79	/	Pass
		Edge_1RB_Right	7.89	7.85	10.88	13.94	13.90	16.93	/	Pass
		Outer_Full	12.84	13.23	16.05	18.89	19.28	22.10	/	Pass
		Inner_Full	19.77	20.07	22.94	25.82	26.12	28.98	/	Pass
		Inner_1RB_Left	19.48	20.36	22.96	25.53	26.41	29.00	/	Pass
		Inner_1RB_Right	20.21	20.11	23.17	26.26	26.16	29.22	/	Pass
	3624.99	Edge_1RB_Left	13.68	14.02	16.86	19.73	20.07	22.91	/	Pass
		Edge_1RB_Right	13.61	14.39	17.03	19.66	20.44	23.08	/	Pass
		Outer_Full	13.74	14.23	17.00	19.79	20.28	23.05	/	Pass
		Inner_Full	13.67	14.20	16.95	19.72	20.25	23.00	/	Pass
		Inner_1RB_Left	13.91	14.04	16.99	19.96	20.09	23.04	/	Pass
		Inner_1RB_Right	13.68	14.39	17.06	19.73	20.44	23.11	/	Pass
	3690	Edge_1RB_Left	10.42	10.47	13.46	16.47	16.52	19.51	/	Pass
		Edge_1RB_Right	10.35	10.45	13.41	16.40	16.50	19.46	/	Pass
		Outer_Full	15.55	15.45	18.51	21.60	21.50	24.56	/	Pass
		Inner_Full	20.46	20.43	23.46	26.51	26.48	29.51	/	Pass
		Inner_1RB_Left	20.37	20.60	23.50	26.42	26.65	29.55	/	Pass
		Inner_1RB_Right	20.41	20.46	23.45	26.46	26.51	29.50	/	Pass

Note1: Antenna Gain: Ant1: 6.05dBi;　　Ant2: 6.05dBi;

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_20MHz_NTNV_EIRP(dBm/10MHz)

5G NR n48 SCS=30kHz MIMO 20MHz NTNV										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3560.01	Edge_1RB_Left	8.10	6.81	10.51	14.15	12.86	16.56	<=47	Pass
		Edge_1RB_Right	6.98	6.78	9.89	13.03	12.83	15.94	<=47	Pass
		Outer_Full	9.33	9.46	12.41	15.38	15.51	18.46	<=47	Pass
		Inner_Full	17.81	18.61	21.24	23.86	24.66	27.29	<=47	Pass
		Inner_1RB_Left	20.43	19.02	22.79	26.48	25.07	28.84	<=47	Pass
		Inner_1RB_Right	19.44	20.33	22.92	25.49	26.38	28.97	<=47	Pass
	3624.99	Edge_1RB_Left	14.17	14.77	17.49	20.22	20.82	23.54	<=47	Pass

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		Edge_1RB_Right	13.80	14.05	16.94	19.85	20.10	22.99	<=47	Pass
		Outer_Full	13.97	13.24	16.63	20.02	19.29	22.68	<=47	Pass
		Inner_Full	18.75	17.87	21.34	24.80	23.92	27.39	<=47	Pass
		Inner_1RB_Left	13.53	12.00	15.84	19.58	18.05	21.89	<=47	Pass
		Inner_1RB_Right	14.75	14.98	17.88	20.80	21.03	23.93	<=47	Pass
	3690	Edge_1RB_Left	9.79	7.24	11.71	15.84	13.29	17.76	<=47	Pass
		Edge_1RB_Right	10.62	4.87	11.64	16.67	10.92	17.69	<=47	Pass
		Outer_Full	13.22	10.26	15.00	19.27	16.31	21.05	<=47	Pass
		Inner_Full	20.87	18.47	22.84	26.92	24.52	28.89	<=47	Pass
		Inner_1RB_Left	18.65	18.58	21.63	24.70	24.63	27.68	<=47	Pass
		Inner_1RB_Right	20.82	17.24	22.40	26.87	23.29	28.45	<=47	Pass
CP-OFDM 16 QAM	3560.01	Edge_1RB_Left	7.59	7.49	10.55	13.64	13.54	16.60	<=47	Pass
		Edge_1RB_Right	6.63	7.66	10.19	12.68	13.71	16.24	<=47	Pass
		Outer_Full	9.23	10.05	12.67	15.28	16.10	18.72	<=47	Pass
		Inner_Full	19.25	-43.58	19.25	25.30	-37.53	25.30	<=47	Pass
		Inner_1RB_Left	19.91	19.38	22.66	25.96	25.43	28.71	<=47	Pass
		Inner_1RB_Right	20.18	20.41	23.31	26.23	26.46	29.36	<=47	Pass
	3624.99	Edge_1RB_Left	15.32	13.48	17.51	21.37	19.53	23.56	<=47	Pass
		Edge_1RB_Right	16.05	13.85	18.10	22.10	19.90	24.15	<=47	Pass
		Outer_Full	14.23	13.86	17.06	20.28	19.91	23.11	<=47	Pass
		Inner_Full	18.13	16.84	20.54	24.18	22.89	26.59	<=47	Pass
		Inner_1RB_Left	15.78	14.82	18.34	21.83	20.87	24.39	<=47	Pass
		Inner_1RB_Right	15.56	14.49	18.07	21.61	20.54	24.12	<=47	Pass
	3690	Edge_1RB_Left	9.45	8.77	12.13	15.50	14.82	18.18	<=47	Pass
		Edge_1RB_Right	10.58	9.41	13.04	16.63	15.46	19.09	<=47	Pass
		Outer_Full	9.52	12.22	14.09	15.57	18.27	20.14	<=47	Pass
		Inner_Full	19.97	19.08	22.56	26.02	25.13	28.61	<=47	Pass
		Inner_1RB_Left	19.71	19.38	22.56	25.76	25.43	28.61	<=47	Pass
		Inner_1RB_Right	19.72	17.05	21.60	25.77	23.10	27.65	<=47	Pass
CP-OFDM 64 QAM	3560.01	Edge_1RB_Left	7.72	6.25	10.06	13.77	12.30	16.11	<=47	Pass
		Edge_1RB_Right	6.66	8.05	10.42	12.71	14.10	16.47	<=47	Pass
		Outer_Full	9.65	-43.71	9.65	15.70	-37.66	15.70	<=47	Pass
		Inner_Full	19.32	19.31	22.33	25.37	25.36	28.38	<=47	Pass
		Inner_1RB_Left	19.60	19.13	22.38	25.65	25.18	28.43	<=47	Pass
		Inner_1RB_Right	19.71	19.53	22.63	25.76	25.58	28.68	<=47	Pass
	3624.99	Edge_1RB_Left	14.50	11.81	16.37	20.55	17.86	22.42	<=47	Pass
		Edge_1RB_Right	14.73	14.86	17.81	20.78	20.91	23.86	<=47	Pass
		Outer_Full	12.82	13.71	16.30	18.87	19.76	22.35	<=47	Pass

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		Inner_Full	16.93	16.32	19.65	22.98	22.37	25.70	<=47	Pass
		Inner_1RB_Left	14.60	12.65	16.74	20.65	18.70	22.79	<=47	Pass
		Inner_1RB_Right	15.48	13.93	17.78	21.53	19.98	23.83	<=47	Pass
	3690	Edge_1RB_Left	9.88	7.55	11.88	15.93	13.60	17.93	<=47	Pass
		Edge_1RB_Right	8.89	7.47	11.25	14.94	13.52	17.30	<=47	Pass
		Outer_Full	10.72	6.86	12.22	16.77	12.91	18.27	<=47	Pass
		Inner_Full	20.26	18.97	22.67	26.31	25.02	28.72	<=47	Pass
		Inner_1RB_Left	19.03	19.19	22.12	25.08	25.24	28.17	<=47	Pass
		Inner_1RB_Right	20.15	15.88	21.53	26.20	21.93	27.58	<=47	Pass
CP-OFDM 256 QAM	3560.01	Edge_1RB_Left	6.57	8.13	10.43	12.62	14.18	16.48	<=47	Pass
		Edge_1RB_Right	7.00	8.43	10.78	13.05	14.48	16.83	<=47	Pass
		Outer_Full	10.60	8.96	12.87	16.65	15.01	18.92	<=47	Pass
		Inner_Full	18.32	19.45	21.93	24.37	25.50	27.98	<=47	Pass
		Inner_1RB_Left	20.19	-43.61	20.19	26.24	-37.56	26.24	<=47	Pass
		Inner_1RB_Right	18.24	19.16	21.73	24.29	25.21	27.78	<=47	Pass
	3624.99	Edge_1RB_Left	10.39	9.79	13.11	16.44	15.84	19.16	<=47	Pass
		Edge_1RB_Right	12.77	12.73	15.76	18.82	18.78	21.81	<=47	Pass
		Outer_Full	8.29	10.37	12.46	14.34	16.42	18.51	<=47	Pass
		Inner_Full	13.08	11.73	15.47	19.13	17.78	21.52	<=47	Pass
		Inner_1RB_Left	13.34	11.68	15.60	19.39	17.73	21.65	<=47	Pass
		Inner_1RB_Right	12.75	12.90	15.84	18.80	18.95	21.89	<=47	Pass
	3690	Edge_1RB_Left	8.31	8.76	11.55	14.36	14.81	17.60	<=47	Pass
		Edge_1RB_Right	5.23	7.91	9.78	11.28	13.96	15.83	<=47	Pass
		Outer_Full	11.79	8.97	13.62	17.84	15.02	19.67	<=47	Pass
		Inner_Full	20.26	19.09	22.72	26.31	25.14	28.77	<=47	Pass
		Inner_1RB_Left	18.40	18.08	21.25	24.45	24.13	27.30	<=47	Pass
		Inner_1RB_Right	19.88	17.10	21.72	25.93	23.15	27.77	<=47	Pass

Note1: Antenna Gain: Ant1: 6.05dBi;   Ant2: 6.05dBi;

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

1.1.6 30k_MIMO_20MHz_NTNV_PSD

5G NR n48 SCS=30kHz MIMO 20MHz NTNV									
Modulation	Frequency (MHz)	RB Allocation	Conducted PSD(dBm/MHz)			E.I.R.PSD(dBm/MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3560.01	Edge_1RB_Left	6.81	8.42	10.14	12.86	14.47	16.19	<=37	Pass

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		Edge_1RB_Right	8.68	7.52	10.78	14.73	13.57	16.83	<=37	Pass
		Outer_Full	1.38	1.93	4.15	7.43	7.98	10.20	<=37	Pass
		Inner_Full	11.06	11.07	13.62	17.11	17.12	19.67	<=37	Pass
		Inner_1RB_Left	20.63	19.11	22.93	26.68	25.16	28.98	<=37	Pass
		Inner_1RB_Right	20.18	19.45	22.83	26.23	25.50	28.88	<=37	Pass
	3624.99	Edge_1RB_Left	12.44	9.73	13.75	18.49	15.78	19.80	<=37	Pass
		Edge_1RB_Right	15.63	15.69	18.50	21.68	21.74	24.55	<=37	Pass
		Outer_Full	4.79	5.15	7.83	10.84	11.20	13.88	<=37	Pass
		Inner_Full	8.49	8.15	10.84	14.54	14.20	16.89	<=37	Pass
		Inner_1RB_Left	14.51	12.66	16.57	20.56	18.71	22.62	<=37	Pass
		Inner_1RB_Right	15.83	16.74	19.13	21.88	22.79	25.18	<=37	Pass
	3690	Edge_1RB_Left	10.07	10.50	13.15	16.12	16.55	19.20	<=37	Pass
		Edge_1RB_Right	11.69	9.95	13.66	17.74	16.00	19.71	<=37	Pass
		Outer_Full	4.40	4.96	6.84	10.45	11.01	12.89	<=37	Pass
		Inner_Full	12.11	12.43	14.98	18.16	18.48	21.03	<=37	Pass
		Inner_1RB_Left	19.66	20.13	22.63	25.71	26.18	28.68	<=37	Pass
		Inner_1RB_Right	20.82	21.77	24.33	26.87	27.82	30.38	<=37	Pass
CP-OFDM 16 QAM	3560.01	Edge_1RB_Left	7.85	-49.74	7.85	13.90	-43.69	13.90	<=37	Pass
		Edge_1RB_Right	6.84	8.65	10.43	12.89	14.70	16.48	<=37	Pass
		Outer_Full	1.14	1.99	4.03	7.19	8.04	10.08	<=37	Pass
		Inner_Full	11.13	11.85	14.36	17.18	17.90	20.41	<=37	Pass
		Inner_1RB_Left	19.83	20.01	22.82	25.88	26.06	28.87	<=37	Pass
		Inner_1RB_Right	19.80	18.94	21.96	25.85	24.99	28.01	<=37	Pass
	3624.99	Edge_1RB_Left	12.93	13.38	15.85	18.98	19.43	21.90	<=37	Pass
		Edge_1RB_Right	13.55	16.15	17.77	19.60	22.20	23.82	<=37	Pass
		Outer_Full	4.79	5.03	7.63	10.84	11.08	13.68	<=37	Pass
		Inner_Full	7.34	6.72	9.44	13.39	12.77	15.49	<=37	Pass
		Inner_1RB_Left	14.73	12.84	16.89	20.78	18.89	22.94	<=37	Pass
		Inner_1RB_Right	15.41	14.57	17.94	21.46	20.62	23.99	<=37	Pass
	3690	Edge_1RB_Left	10.47	10.62	13.42	16.52	16.67	19.47	<=37	Pass
		Edge_1RB_Right	7.76	11.05	12.56	13.81	17.10	18.61	<=37	Pass
		Outer_Full	4.91	4.51	6.93	10.96	10.56	12.98	<=37	Pass
		Inner_Full	11.73	11.71	14.44	17.78	17.76	20.49	<=37	Pass
		Inner_1RB_Left	20.92	19.47	23.23	26.97	25.52	29.28	<=37	Pass
		Inner_1RB_Right	19.35	18.73	21.97	25.40	24.78	28.02	<=37	Pass
CP-OFDM 64 QAM	3560.01	Edge_1RB_Left	8.75	8.42	11.36	14.80	14.47	17.41	<=37	Pass
		Edge_1RB_Right	8.91	-50.96	8.91	14.96	-44.91	14.96	<=37	Pass
		Outer_Full	1.32	2.21	4.23	7.37	8.26	10.28	<=37	Pass

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		Inner_Full	11.68	7.77	12.33	17.73	13.82	18.38	<=37	Pass
		Inner_1RB_Left	19.92	19.51	22.73	25.97	25.56	28.78	<=37	Pass
		Inner_1RB_Right	20.88	19.18	23.12	26.93	25.23	29.17	<=37	Pass
	3624.99	Edge_1RB_Left	14.02	14.78	17.12	20.07	20.83	23.17	<=37	Pass
		Edge_1RB_Right	15.28	15.38	18.31	21.33	21.43	24.36	<=37	Pass
		Outer_Full	4.20	4.55	6.75	10.25	10.60	12.80	<=37	Pass
		Inner_Full	7.28	7.27	9.77	13.33	13.32	15.82	<=37	Pass
		Inner_1RB_Left	14.59	12.68	16.63	20.64	18.73	22.68	<=37	Pass
		Inner_1RB_Right	15.74	16.01	18.71	21.79	22.06	24.76	<=37	Pass
	3690	Edge_1RB_Left	10.71	10.40	13.04	16.76	16.45	19.09	<=37	Pass
		Edge_1RB_Right	9.33	10.07	12.17	15.38	16.12	18.22	<=37	Pass
		Outer_Full	4.46	4.39	7.04	10.51	10.44	13.09	<=37	Pass
		Inner_Full	11.11	13.42	14.77	17.16	19.47	20.82	<=37	Pass
		Inner_1RB_Left	20.01	18.95	22.11	26.06	25.00	28.16	<=37	Pass
		Inner_1RB_Right	21.50	21.94	24.67	27.55	27.99	30.72	<=37	Pass
CP-OFDM 256 QAM	3560.01	Edge_1RB_Left	8.47	7.85	10.73	14.52	13.90	16.78	<=37	Pass
		Edge_1RB_Right	7.86	-51.20	7.86	13.91	-45.15	13.91	<=37	Pass
		Outer_Full	1.90	2.26	4.07	7.95	8.31	10.12	<=37	Pass
		Inner_Full	10.48	10.98	13.26	16.53	17.03	19.31	<=37	Pass
		Inner_1RB_Left	20.27	19.78	22.76	26.32	25.83	28.81	<=37	Pass
		Inner_1RB_Right	20.31	20.00	22.66	26.36	26.05	28.71	<=37	Pass
	3624.99	Edge_1RB_Left	11.87	9.60	13.78	17.92	15.65	19.83	<=37	Pass
		Edge_1RB_Right	13.23	14.83	16.93	19.28	20.88	22.98	<=37	Pass
		Outer_Full	2.30	1.73	4.24	8.35	7.78	10.29	<=37	Pass
		Inner_Full	4.54	5.74	7.57	10.59	11.79	13.62	<=37	Pass
		Inner_1RB_Left	12.51	12.72	14.92	18.56	18.77	20.97	<=37	Pass
		Inner_1RB_Right	13.29	14.89	16.81	19.34	20.94	22.86	<=37	Pass
	3690	Edge_1RB_Left	9.77	11.60	13.53	15.82	17.65	19.58	<=37	Pass
		Edge_1RB_Right	9.96	7.66	11.75	16.01	13.71	17.80	<=37	Pass
		Outer_Full	3.58	1.45	5.13	9.63	7.50	11.18	<=37	Pass
		Inner_Full	11.57	11.11	13.67	17.62	17.16	19.72	<=37	Pass
		Inner_1RB_Left	21.36	20.40	23.68	27.41	26.45	29.73	<=37	Pass
		Inner_1RB_Right	20.81	19.74	22.73	26.86	25.79	28.78	<=37	Pass

Note1: Antenna Gain: Ant1: 6.05dBi;   Ant2: 6.05dBi;

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_30MHz_NTNV_EIRP

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Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	

Modulation	Frequency (MHz)	RB Allocation	Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	Verdict
CP-OFDM QPSK	3565.02	Edge_1RB_Left	6.62	7.39	10.03	12.67	13.44	16.08	/	Pass
		Edge_1RB_Right	3.56	3.72	6.65	9.61	9.77	12.70	/	Pass
		Outer_Full	12.77	13.15	15.98	18.82	19.20	22.02	/	Pass
		Inner_Full	19.86	19.94	22.91	25.91	25.99	28.96	/	Pass
		Inner_1RB_Left	19.22	20.18	22.74	25.27	26.23	28.79	/	Pass
		Inner_1RB_Right	19.71	20.02	22.88	25.76	26.07	28.93	/	Pass
	3624.99	Edge_1RB_Left	17.12	17.57	20.36	23.17	23.62	26.41	/	Pass
		Edge_1RB_Right	16.94	17.60	20.29	22.99	23.65	26.34	/	Pass
		Outer_Full	16.95	17.49	20.24	23.00	23.54	26.29	/	Pass
		Inner_Full	18.49	19.03	21.78	24.54	25.08	27.83	/	Pass
		Inner_1RB_Left	18.82	18.99	21.91	24.87	25.04	27.97	/	Pass
		Inner_1RB_Right	18.41	19.02	21.73	24.46	25.07	27.79	/	Pass
	3684.99	Edge_1RB_Left	10.31	10.46	13.40	16.36	16.51	19.45	/	Pass
		Edge_1RB_Right	10.30	10.38	13.35	16.35	16.43	19.40	/	Pass
		Outer_Full	15.49	15.57	18.54	21.54	21.62	24.59	/	Pass
		Inner_Full	20.46	20.55	23.52	26.51	26.60	29.57	/	Pass
		Inner_1RB_Left	20.40	20.55	23.48	26.45	26.60	29.54	/	Pass
		Inner_1RB_Right	20.57	20.34	23.47	26.62	26.39	29.52	/	Pass
CP-OFDM 16 QAM	3565.02	Edge_1RB_Left	7.33	8.06	10.72	13.38	14.11	16.77	/	Pass
		Edge_1RB_Right	7.57	7.86	10.73	13.62	13.91	16.78	/	Pass
		Outer_Full	12.82	13.09	15.97	18.87	19.14	22.02	/	Pass
		Inner_Full	19.95	20.01	22.99	26.00	26.06	29.04	/	Pass
		Inner_1RB_Left	19.43	20.03	22.75	25.48	26.08	28.80	/	Pass
		Inner_1RB_Right	19.73	20.24	23.00	25.78	26.29	29.05	/	Pass
	3624.99	Edge_1RB_Left	17.13	17.47	20.31	23.18	23.52	26.36	/	Pass
		Edge_1RB_Right	16.79	17.59	20.22	22.84	23.64	26.27	/	Pass
		Outer_Full	16.94	17.54	20.26	22.99	23.59	26.31	/	Pass
		Inner_Full	18.04	18.52	21.30	24.09	24.57	27.35	/	Pass
		Inner_1RB_Left	18.15	18.57	21.37	24.20	24.62	27.43	/	Pass
		Inner_1RB_Right	18.02	18.53	21.30	24.07	24.58	27.34	/	Pass
	3684.99	Edge_1RB_Left	10.37	10.48	13.43	16.42	16.53	19.49	/	Pass
		Edge_1RB_Right	10.40	10.44	13.43	16.45	16.49	19.48	/	Pass
		Outer_Full	15.49	15.58	18.55	21.54	21.63	24.60	/	Pass
		Inner_Full	20.48	20.51	23.51	26.53	26.56	29.56	/	Pass
		Inner_1RB_Left	20.47	20.49	23.49	26.52	26.54	29.54	/	Pass

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		Inner_1RB_Right	20.55	20.48	23.52	26.60	26.53	29.58	/	Pass
CP-OFDM 64 QAM	3565.02	Edge_1RB_Left	7.38	8.10	10.77	13.43	14.15	16.82	/	Pass
		Edge_1RB_Right	7.60	8.01	10.82	13.65	14.06	16.87	/	Pass
		Outer_Full	12.81	13.12	15.98	18.86	19.17	22.03	/	Pass
		Inner_Full	19.94	20.00	22.98	25.99	26.05	29.03	/	Pass
		Inner_1RB_Left	19.40	20.04	22.74	25.45	26.09	28.79	/	Pass
		Inner_1RB_Right	20.02	20.06	23.05	26.07	26.11	29.10	/	Pass
	3624.99	Edge_1RB_Left	16.76	17.05	19.92	22.81	23.10	25.97	/	Pass
		Edge_1RB_Right	16.61	17.13	19.89	22.66	23.18	25.94	/	Pass
		Outer_Full	16.52	17.03	19.79	22.57	23.08	25.84	/	Pass
		Inner_Full	16.56	17.03	19.81	22.61	23.08	25.86	/	Pass
		Inner_1RB_Left	16.74	16.80	19.78	22.79	22.85	25.83	/	Pass
		Inner_1RB_Right	16.30	17.00	19.68	22.35	23.05	25.72	/	Pass
	3684.99	Edge_1RB_Left	10.35	10.25	13.31	16.40	16.30	19.36	/	Pass
		Edge_1RB_Right	10.34	10.40	13.38	16.39	16.45	19.43	/	Pass
		Outer_Full	15.44	15.63	18.54	21.49	21.68	24.60	/	Pass
		Inner_Full	20.48	20.55	23.52	26.53	26.60	29.58	/	Pass
		Inner_1RB_Left	20.39	20.67	23.54	26.44	26.72	29.59	/	Pass
		Inner_1RB_Right	20.60	20.35	23.49	26.65	26.40	29.54	/	Pass
CP-OFDM 256 QAM	3565.02	Edge_1RB_Left	7.32	8.11	10.74	13.37	14.16	16.79	/	Pass
		Edge_1RB_Right	7.62	8.07	10.86	13.67	14.12	16.91	/	Pass
		Outer_Full	12.89	13.11	16.01	18.94	19.16	22.06	/	Pass
		Inner_Full	19.91	20.08	23.01	25.96	26.13	29.06	/	Pass
		Inner_1RB_Left	19.42	20.36	22.93	25.47	26.41	28.98	/	Pass
		Inner_1RB_Right	19.39	20.08	22.76	25.44	26.13	28.81	/	Pass
	3624.99	Edge_1RB_Left	13.69	14.31	17.02	19.74	20.36	23.07	/	Pass
		Edge_1RB_Right	13.39	14.05	16.74	19.44	20.10	22.79	/	Pass
		Outer_Full	13.66	14.17	16.93	19.71	20.22	22.98	/	Pass
		Inner_Full	13.66	14.19	16.94	19.71	20.24	22.99	/	Pass
		Inner_1RB_Left	13.74	13.92	16.84	19.79	19.97	22.89	/	Pass
		Inner_1RB_Right	13.50	14.03	16.78	19.55	20.08	22.83	/	Pass
	3684.99	Edge_1RB_Left	10.30	10.48	13.40	16.35	16.53	19.45	/	Pass
		Edge_1RB_Right	10.53	10.33	13.45	16.58	16.38	19.49	/	Pass
		Outer_Full	15.51	15.58	18.55	21.56	21.63	24.61	/	Pass
		Inner_Full	20.51	19.14	22.89	26.56	25.19	28.94	/	Pass
		Inner_1RB_Left	20.44	20.54	23.50	26.49	26.59	29.55	/	Pass
		Inner_1RB_Right	20.62	20.12	23.39	26.67	26.17	29.44	/	Pass
Note1: Antenna Gain: Ant1: 6.05dBi;　　Ant2: 6.05dBi;										

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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_30MHz_NTNV_EIRP(dBm/10MHz)

5G NR n48 SCS=30kHz MIMO 30MHz NTNV									
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3565.02	Edge_1RB_Left	6.89	7.84	10.40	12.94	13.89	16.45	<=47	Pass
		Edge_1RB_Right	7.63	7.53	10.59	13.68	13.58	16.64	<=47	Pass
		Outer_Full	7.59	8.04	10.83	13.64	14.09	16.88	<=47	Pass
		Inner_Full	17.09	17.14	20.13	23.14	23.19	26.18	<=47	Pass
		Inner_1RB_Left	-43.76	20.14	20.14	-37.71	26.19	26.19	<=47	Pass
		Inner_1RB_Right	18.86	20.07	22.52	24.91	26.12	28.57	<=47	Pass
	3624.99	Edge_1RB_Left	11.20	10.18	13.73	17.25	16.23	19.78	<=47	Pass
		Edge_1RB_Right	15.40	15.15	18.29	21.45	21.20	24.34	<=47	Pass
		Outer_Full	12.04	10.61	14.39	18.09	16.66	20.44	<=47	Pass
		Inner_Full	14.48	13.45	17.01	20.53	19.50	23.06	<=47	Pass
		Inner_1RB_Left	10.20	8.98	12.64	16.25	15.03	18.69	<=47	Pass
		Inner_1RB_Right	15.52	14.90	18.23	21.57	20.95	24.28	<=47	Pass
	3684.99	Edge_1RB_Left	7.55	7.75	10.66	13.60	13.80	16.71	<=47	Pass
		Edge_1RB_Right	8.65	8.11	11.40	14.70	14.16	17.45	<=47	Pass
		Outer_Full	9.67	8.71	12.23	15.72	14.76	18.28	<=47	Pass
		Inner_Full	17.32	16.34	19.87	23.37	22.39	25.92	<=47	Pass
		Inner_1RB_Left	20.17	19.04	22.65	26.22	25.09	28.70	<=47	Pass
		Inner_1RB_Right	16.22	19.99	21.51	22.27	26.04	27.56	<=47	Pass
CP-OFDM 16 QAM	3565.02	Edge_1RB_Left	-44.00	6.85	6.85	-37.95	12.90	12.90	<=47	Pass
		Edge_1RB_Right	6.16	8.01	10.19	12.21	14.06	16.24	<=47	Pass
		Outer_Full	7.57	6.00	9.87	13.62	12.05	15.92	<=47	Pass
		Inner_Full	17.32	15.80	19.64	23.37	21.85	25.69	<=47	Pass
		Inner_1RB_Left	19.67	18.50	22.13	25.72	24.55	28.18	<=47	Pass
		Inner_1RB_Right	18.87	18.92	21.91	24.92	24.97	27.96	<=47	Pass
	3624.99	Edge_1RB_Left	9.01	8.91	11.97	15.06	14.96	18.02	<=47	Pass
		Edge_1RB_Right	15.31	13.64	17.57	21.36	19.69	23.62	<=47	Pass
		Outer_Full	11.65	10.39	14.08	17.70	16.44	20.13	<=47	Pass
		Inner_Full	15.67	14.21	18.01	21.72	20.26	24.06	<=47	Pass
		Inner_1RB_Left	12.03	11.04	14.57	18.08	17.09	20.62	<=47	Pass

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		Inner_1RB_Right	15.52	15.13	18.34	21.57	21.18	24.39	<=47	Pass
	3684.99	Edge_1RB_Left	10.12	7.23	11.92	16.17	13.28	17.97	<=47	Pass
		Edge_1RB_Right	8.19	9.10	11.68	14.24	15.15	17.73	<=47	Pass
		Outer_Full	9.93	9.01	12.50	15.98	15.06	18.55	<=47	Pass
		Inner_Full	18.16	15.85	20.17	24.21	21.90	26.22	<=47	Pass
		Inner_1RB_Left	18.75	18.59	21.68	24.80	24.64	27.73	<=47	Pass
		Inner_1RB_Right	20.53	18.24	22.54	26.58	24.29	28.59	<=47	Pass
CP-OFDM 64 QAM	3565.02	Edge_1RB_Left	5.97	6.53	9.27	12.02	12.58	15.32	<=47	Pass
		Edge_1RB_Right	5.39	5.54	8.48	11.44	11.59	14.53	<=47	Pass
		Outer_Full	6.53	6.54	9.55	12.58	12.59	15.60	<=47	Pass
		Inner_Full	16.65	17.33	20.01	22.70	23.38	26.06	<=47	Pass
		Inner_1RB_Left	20.02	20.26	23.15	26.07	26.31	29.20	<=47	Pass
		Inner_1RB_Right	15.18	20.32	21.48	21.23	26.37	27.53	<=47	Pass
	3624.99	Edge_1RB_Left	11.36	5.83	12.43	17.41	11.88	18.48	<=47	Pass
		Edge_1RB_Right	15.39	14.19	17.84	21.44	20.24	23.89	<=47	Pass
		Outer_Full	10.36	10.28	13.33	16.41	16.33	19.38	<=47	Pass
		Inner_Full	14.15	14.48	17.33	20.20	20.53	23.38	<=47	Pass
		Inner_1RB_Left	9.76	9.71	12.75	15.81	15.76	18.80	<=47	Pass
		Inner_1RB_Right	14.56	15.19	17.90	20.61	21.24	23.95	<=47	Pass
	3684.99	Edge_1RB_Left	8.68	7.25	11.03	14.73	13.30	17.08	<=47	Pass
		Edge_1RB_Right	10.58	9.30	13.00	16.63	15.35	19.05	<=47	Pass
		Outer_Full	9.68	7.05	11.57	15.73	13.10	17.62	<=47	Pass
		Inner_Full	18.06	16.46	20.34	24.11	22.51	26.39	<=47	Pass
		Inner_1RB_Left	19.65	18.09	21.95	25.70	24.14	28.00	<=47	Pass
		Inner_1RB_Right	19.92	17.00	21.71	25.97	23.05	27.76	<=47	Pass
CP-OFDM 256 QAM	3565.02	Edge_1RB_Left	6.89	-43.56	6.89	12.94	-37.51	12.94	<=47	Pass
		Edge_1RB_Right	5.11	7.77	9.65	11.16	13.82	15.70	<=47	Pass
		Outer_Full	6.68	7.51	10.13	12.73	13.56	16.18	<=47	Pass
		Inner_Full	18.02	18.21	21.13	24.07	24.26	27.18	<=47	Pass
		Inner_1RB_Left	18.81	20.22	22.58	24.86	26.27	28.63	<=47	Pass
		Inner_1RB_Right	18.81	18.63	21.73	24.86	24.68	27.78	<=47	Pass
	3624.99	Edge_1RB_Left	1.42	9.32	9.97	7.47	15.37	16.02	<=47	Pass
		Edge_1RB_Right	12.66	12.58	15.63	18.71	18.63	21.68	<=47	Pass
		Outer_Full	8.04	8.52	11.30	14.09	14.57	17.35	<=47	Pass
		Inner_Full	11.47	11.21	14.35	17.52	17.26	20.40	<=47	Pass
		Inner_1RB_Left	9.73	6.32	11.36	15.78	12.37	17.41	<=47	Pass
		Inner_1RB_Right	12.57	11.01	14.87	18.62	17.06	20.92	<=47	Pass
	3684.99	Edge_1RB_Left	7.54	8.82	11.24	13.59	14.87	17.29	<=47	Pass

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		Edge_1RB_Right	8.68	4.96	10.22	14.73	11.01	16.27	<=47	Pass
		Outer_Full	9.73	8.04	11.98	15.78	14.09	18.03	<=47	Pass
		Inner_Full	17.79	15.29	19.73	23.84	21.34	25.78	<=47	Pass
		Inner_1RB_Left	19.75	17.89	21.93	25.80	23.94	27.98	<=47	Pass
		Inner_1RB_Right	18.86	17.84	21.39	24.91	23.89	27.44	<=47	Pass

Note1: Antenna Gain: Ant1: 6.05dBi; Ant2: 6.05dBi;

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

1.1.9 30k_MIMO_30MHz_NTNV_PSD

5G NR n48 SCS=30kHz MIMO 30MHz NTNV										
Modulation	Frequency (MHz)	RB Allocation	Conducted PSD(dBm/MHz)			E.I.R.PSD(dBm/MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3565.02	Edge_1RB_Left	7.70	8.14	10.91	13.75	14.19	16.96	<=37	Pass
		Edge_1RB_Right	7.65	7.82	10.18	13.70	13.87	16.23	<=37	Pass
		Outer_Full	-0.72	-0.63	1.59	5.33	5.42	7.64	<=37	Pass
		Inner_Full	9.10	8.93	11.57	15.15	14.98	17.62	<=37	Pass
		Inner_1RB_Left	19.75	19.70	22.33	25.80	25.75	28.38	<=37	Pass
		Inner_1RB_Right	19.34	18.73	22.06	25.39	24.78	28.11	<=37	Pass
	3624.99	Edge_1RB_Left	9.87	6.01	11.32	15.92	12.06	17.37	<=37	Pass
		Edge_1RB_Right	15.25	13.41	17.22	21.30	19.46	23.27	<=37	Pass
		Outer_Full	1.67	-1.16	2.89	7.72	4.89	8.94	<=37	Pass
		Inner_Full	3.25	2.51	5.36	9.30	8.56	11.41	<=37	Pass
		Inner_1RB_Left	9.52	12.14	13.85	15.57	18.19	19.90	<=37	Pass
		Inner_1RB_Right	13.93	16.61	18.31	19.98	22.66	24.36	<=37	Pass
	3684.99	Edge_1RB_Left	9.57	9.66	12.62	15.62	15.71	18.67	<=37	Pass
		Edge_1RB_Right	9.70	9.75	12.52	15.75	15.80	18.57	<=37	Pass
		Outer_Full	2.00	2.13	4.46	8.05	8.18	10.51	<=37	Pass
		Inner_Full	10.19	9.77	12.69	16.24	15.82	18.74	<=37	Pass
		Inner_1RB_Left	19.34	19.01	21.91	25.39	25.06	27.96	<=37	Pass
		Inner_1RB_Right	19.99	19.81	22.71	26.04	25.86	28.76	<=37	Pass
CP-OFDM 16 QAM	3565.02	Edge_1RB_Left	7.50	8.41	10.47	13.55	14.46	16.52	<=37	Pass
		Edge_1RB_Right	6.64	6.75	9.66	12.69	12.80	15.71	<=37	Pass
		Outer_Full	0.39	0.20	2.94	6.44	6.25	8.99	<=37	Pass
		Inner_Full	10.53	10.53	12.69	16.58	16.58	18.74	<=37	Pass
		Inner_1RB_Left	18.56	18.13	21.30	24.61	24.18	27.35	<=37	Pass

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		Inner_1RB_Right	19.79	18.95	22.37	25.84	25.00	28.42	<=37	Pass
	3624.99	Edge_1RB_Left	7.91	9.69	11.62	13.96	15.74	17.67	<=37	Pass
		Edge_1RB_Right	14.10	14.10	16.98	20.15	20.15	23.03	<=37	Pass
		Outer_Full	-0.27	2.39	3.72	5.78	8.44	9.77	<=37	Pass
		Inner_Full	3.63	4.12	6.44	9.68	10.17	12.49	<=37	Pass
		Inner_1RB_Left	7.95	11.08	12.81	14.00	17.13	18.86	<=37	Pass
		Inner_1RB_Right	15.33	14.00	17.56	21.38	20.05	23.61	<=37	Pass
	3684.99	Edge_1RB_Left	9.90	10.04	12.98	15.95	16.09	19.03	<=37	Pass
		Edge_1RB_Right	10.30	10.76	13.45	16.35	16.81	19.50	<=37	Pass
		Outer_Full	1.92	2.40	4.69	7.97	8.45	10.74	<=37	Pass
		Inner_Full	9.98	9.73	12.41	16.03	15.78	18.46	<=37	Pass
		Inner_1RB_Left	20.71	20.84	23.73	26.76	26.89	29.78	<=37	Pass
		Inner_1RB_Right	18.87	19.74	21.97	24.92	25.79	28.02	<=37	Pass
CP-OFDM 64 QAM	3565.02	Edge_1RB_Left	7.28	4.77	8.75	13.33	10.82	14.80	<=37	Pass
		Edge_1RB_Right	6.97	7.94	10.28	13.02	13.99	16.33	<=37	Pass
		Outer_Full	0.15	0.29	2.39	6.20	6.34	8.44	<=37	Pass
		Inner_Full	9.99	9.31	12.19	16.04	15.36	18.24	<=37	Pass
		Inner_1RB_Left	19.78	18.85	22.24	25.83	24.90	28.29	<=37	Pass
		Inner_1RB_Right	18.76	18.70	21.59	24.81	24.75	27.64	<=37	Pass
	3624.99	Edge_1RB_Left	8.11	6.32	9.89	14.16	12.37	15.94	<=37	Pass
		Edge_1RB_Right	14.81	13.76	17.23	20.86	19.81	23.28	<=37	Pass
		Outer_Full	-0.14	0.88	2.98	5.91	6.93	9.03	<=37	Pass
		Inner_Full	0.53	3.16	3.88	6.58	9.21	9.93	<=37	Pass
		Inner_1RB_Left	8.74	11.57	12.93	14.79	17.62	18.98	<=37	Pass
		Inner_1RB_Right	14.44	15.45	17.93	20.49	21.50	23.98	<=37	Pass
	3684.99	Edge_1RB_Left	11.43	9.36	13.53	17.48	15.41	19.58	<=37	Pass
		Edge_1RB_Right	8.66	10.52	12.70	14.71	16.57	18.75	<=37	Pass
		Outer_Full	2.14	2.14	4.84	8.19	8.19	10.89	<=37	Pass
		Inner_Full	9.79	9.76	12.47	15.84	15.81	18.52	<=37	Pass
		Inner_1RB_Left	19.95	20.90	23.46	26.00	26.95	29.51	<=37	Pass
		Inner_1RB_Right	20.17	19.75	22.36	26.22	25.80	28.41	<=37	Pass
CP-OFDM 256 QAM	3565.02	Edge_1RB_Left	6.58	8.43	10.26	12.63	14.48	16.31	<=37	Pass
		Edge_1RB_Right	7.00	6.47	9.39	13.05	12.52	15.44	<=37	Pass
		Outer_Full	-0.10	0.16	2.45	5.95	6.21	8.50	<=37	Pass
		Inner_Full	9.48	4.15	10.06	15.53	10.20	16.11	<=37	Pass
		Inner_1RB_Left	19.97	19.79	22.89	26.02	25.84	28.94	<=37	Pass
		Inner_1RB_Right	17.61	19.30	21.55	23.66	25.35	27.60	<=37	Pass
	3624.99	Edge_1RB_Left	5.53	7.95	9.88	11.58	14.00	15.93	<=37	Pass

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		Edge_1RB_Right	11.58	13.56	15.60	17.63	19.61	21.65	<=37	Pass
		Outer_Full	-2.50	-1.53	1.01	3.55	4.52	7.06	<=37	Pass
		Inner_Full	-0.27	-0.93	1.74	5.78	5.12	7.79	<=37	Pass
		Inner_1RB_Left	8.78	3.29	9.64	14.83	9.34	15.69	<=37	Pass
		Inner_1RB_Right	13.08	12.91	15.81	19.13	18.96	21.86	<=37	Pass
	3684.99	Edge_1RB_Left	9.41	10.16	12.45	15.46	16.21	18.50	<=37	Pass
		Edge_1RB_Right	9.62	9.18	12.24	15.67	15.23	18.29	<=37	Pass
		Outer_Full	1.85	1.81	4.52	7.90	7.86	10.57	<=37	Pass
		Inner_Full	8.93	8.67	11.09	14.98	14.72	17.14	<=37	Pass
		Inner_1RB_Left	20.82	21.22	23.99	26.87	27.27	30.04	<=37	Pass
		Inner_1RB_Right	18.68	19.20	21.94	24.73	25.25	27.99	<=37	Pass

Note1: Antenna Gain: Ant1: 6.05dBi;   Ant2: 6.05dBi;

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_40MHz_NTNV_EIRP

5G NR n48 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	3570	Edge_1RB_Left	7.22	8.00	10.64	13.27	14.05	16.69	/	Pass
		Edge_1RB_Right	7.82	8.45	11.16	13.87	14.50	17.21	/	Pass
		Outer_Full	12.93	13.20	16.08	18.98	19.25	22.13	/	Pass
		Inner_Full	19.83	20.10	22.98	25.88	26.15	29.03	/	Pass
		Inner_1RB_Left	19.39	20.05	22.74	25.44	26.10	28.79	/	Pass
		Inner_1RB_Right	19.90	20.47	23.20	25.95	26.52	29.25	/	Pass
	3624.99	Edge_1RB_Left	17.12	17.40	20.27	23.17	23.45	26.32	/	Pass
		Edge_1RB_Right	16.93	17.60	20.29	22.98	23.65	26.34	/	Pass
		Outer_Full	17.25	17.56	20.42	23.30	23.61	26.47	/	Pass
		Inner_Full	18.55	19.10	21.84	24.60	25.15	27.89	/	Pass
		Inner_1RB_Left	18.71	19.01	21.87	24.76	25.06	27.92	/	Pass
		Inner_1RB_Right	18.54	19.03	21.80	24.59	25.08	27.85	/	Pass
	3679.98	Edge_1RB_Left	9.43	10.06	12.77	15.48	16.11	18.82	/	Pass
		Edge_1RB_Right	10.07	9.95	13.02	16.12	16.00	19.07	/	Pass
		Outer_Full	15.10	15.20	18.16	21.15	21.25	24.21	/	Pass
		Inner_Full	20.13	20.04	23.10	26.18	26.09	29.15	/	Pass
		Inner_1RB_Left	19.78	20.04	22.92	25.83	26.09	28.97	/	Pass
		Inner_1RB_Right	20.28	20.11	23.20	26.33	26.16	29.26	/	Pass

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CP-OFDM 16 QAM	3570	Edge_1RB_Left	7.30	8.09	10.72	13.35	14.14	16.77	/	Pass
		Edge_1RB_Right	7.90	8.30	11.11	13.95	14.35	17.16	/	Pass
		Outer_Full	12.91	13.18	16.06	18.96	19.23	22.11	/	Pass
		Inner_Full	19.88	20.10	23.00	25.93	26.15	29.05	/	Pass
		Inner_1RB_Left	19.36	20.31	22.87	25.41	26.36	28.92	/	Pass
		Inner_1RB_Right	20.04	20.54	23.30	26.09	26.59	29.36	/	Pass
	3624.99	Edge_1RB_Left	17.34	17.39	20.37	23.39	23.44	26.43	/	Pass
		Edge_1RB_Right	16.90	17.49	20.22	22.95	23.54	26.27	/	Pass
		Outer_Full	17.26	17.61	20.45	23.31	23.66	26.50	/	Pass
		Inner_Full	18.07	18.68	21.40	24.12	24.73	27.45	/	Pass
		Inner_1RB_Left	18.51	18.66	21.59	24.56	24.71	27.65	/	Pass
		Inner_1RB_Right	18.10	18.62	21.38	24.15	24.67	27.43	/	Pass
	3679.98	Edge_1RB_Left	9.73	10.13	12.95	15.78	16.18	18.99	/	Pass
		Edge_1RB_Right	10.21	10.20	13.21	16.26	16.25	19.27	/	Pass
		Outer_Full	14.95	15.22	18.10	21.00	21.27	24.15	/	Pass
		Inner_Full	20.21	20.13	23.18	26.26	26.18	29.23	/	Pass
		Inner_1RB_Left	19.70	19.95	22.84	25.75	26.00	28.89	/	Pass
		Inner_1RB_Right	20.21	20.37	23.30	26.26	26.42	29.35	/	Pass
CP-OFDM 64 QAM	3570	Edge_1RB_Left	7.12	8.16	10.68	13.17	14.21	16.73	/	Pass
		Edge_1RB_Right	7.80	8.30	11.07	13.85	14.35	17.12	/	Pass
		Outer_Full	12.93	13.21	16.08	18.98	19.26	22.13	/	Pass
		Inner_Full	19.95	20.12	23.05	26.00	26.17	29.10	/	Pass
		Inner_1RB_Left	19.38	20.04	22.74	25.43	26.09	28.78	/	Pass
		Inner_1RB_Right	19.94	20.48	23.23	25.99	26.53	29.28	/	Pass
	3624.99	Edge_1RB_Left	16.82	16.92	19.88	22.87	22.97	25.93	/	Pass
		Edge_1RB_Right	16.45	17.06	19.78	22.50	23.11	25.83	/	Pass
		Outer_Full	16.58	16.99	19.80	22.63	23.04	25.85	/	Pass
		Inner_Full	16.60	17.03	19.83	22.65	23.08	25.88	/	Pass
		Inner_1RB_Left	16.87	17.24	20.07	22.92	23.29	26.12	/	Pass
		Inner_1RB_Right	16.41	17.08	19.77	22.46	23.13	25.82	/	Pass
	3679.98	Edge_1RB_Left	9.76	10.14	12.96	15.81	16.19	19.01	/	Pass
		Edge_1RB_Right	10.20	10.17	13.19	16.25	16.22	19.25	/	Pass
		Outer_Full	15.30	15.28	18.30	21.35	21.33	24.35	/	Pass
		Inner_Full	20.25	20.16	23.22	26.30	26.21	29.27	/	Pass
		Inner_1RB_Left	19.79	19.99	22.90	25.84	26.04	28.95	/	Pass
		Inner_1RB_Right	20.28	19.91	23.11	26.33	25.96	29.16	/	Pass
CP-OFDM 256 QAM	3570	Edge_1RB_Left	7.34	8.02	10.70	13.39	14.07	16.75	/	Pass
		Edge_1RB_Right	7.91	8.11	11.02	13.96	14.16	17.07	/	Pass

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		Outer_Full	13.02	13.25	16.14	19.07	19.30	22.20	/	Pass
		Inner_Full	19.94	20.13	23.05	25.99	26.18	29.10	/	Pass
		Inner_1RB_Left	19.29	20.40	22.89	25.34	26.45	28.94	/	Pass
		Inner_1RB_Right	20.34	20.44	23.40	26.39	26.49	29.45	/	Pass
	3624.99	Edge_1RB_Left	13.76	14.09	16.94	19.81	20.14	22.99	/	Pass
		Edge_1RB_Right	13.54	14.21	16.90	19.59	20.26	22.95	/	Pass
		Outer_Full	13.76	14.17	16.98	19.81	20.22	23.03	/	Pass
		Inner_Full	13.80	14.17	17.00	19.85	20.22	23.05	/	Pass
		Inner_1RB_Left	13.91	14.08	17.01	19.96	20.13	23.06	/	Pass
		Inner_1RB_Right	13.42	14.34	16.91	19.47	20.39	22.96	/	Pass
	3679.98	Edge_1RB_Left	3.59	4.48	7.07	9.64	10.53	13.12	/	Pass
		Edge_1RB_Right	10.32	10.23	13.28	16.37	16.28	19.34	/	Pass
		Outer_Full	15.27	15.26	18.28	21.32	21.31	24.33	/	Pass
		Inner_Full	19.98	18.66	22.38	26.03	24.71	28.43	/	Pass
		Inner_1RB_Left	19.71	19.72	22.73	25.76	25.77	28.78	/	Pass
		Inner_1RB_Right	20.25	19.26	22.80	26.30	25.31	28.84	/	Pass

Note1: Antenna Gain: Ant1: 6.05dBi;   Ant2: 6.05dBi;

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_40MHz_NTNV_EIRP(dBm/10MHz)

5G NR n48 SCS=30kHz MIMO 40MHz NTNV									
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Edge_1RB_Left	3.73	5.54	7.74	9.78	11.59	13.79	<=47	Pass
		Edge_1RB_Right	6.58	7.22	9.92	12.63	13.27	15.97	<=47	Pass
		Outer_Full	5.67	3.93	7.90	11.72	9.98	13.95	<=47	Pass
		Inner_Full	15.23	15.50	18.38	21.28	21.55	24.43	<=47	Pass
		Inner_1RB_Left	18.32	16.63	20.57	24.37	22.68	26.62	<=47	Pass
		Inner_1RB_Right	19.12	17.20	21.28	25.17	23.25	27.33	<=47	Pass
	3624.99	Edge_1RB_Left	8.38	15.03	15.88	14.43	21.08	21.93	<=47	Pass
		Edge_1RB_Right	13.60	13.58	16.60	19.65	19.63	22.65	<=47	Pass
		Outer_Full	10.08	9.72	12.91	16.13	15.77	18.96	<=47	Pass
		Inner_Full	15.55	15.30	18.44	21.60	21.35	24.49	<=47	Pass
		Inner_1RB_Left	15.97	14.75	18.41	22.02	20.80	24.46	<=47	Pass
		Inner_1RB_Right	14.98	14.07	17.56	21.03	20.12	23.61	<=47	Pass

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	3679.98	Edge_1RB_Left	6.55	8.93	10.91	12.60	14.98	16.96	<=47	Pass
		Edge_1RB_Right	7.30	8.52	10.96	13.35	14.57	17.01	<=47	Pass
		Outer_Full	6.28	7.43	9.90	12.33	13.48	15.95	<=47	Pass
		Inner_Full	16.44	16.51	19.49	22.49	22.56	25.54	<=47	Pass
		Inner_1RB_Left	19.52	19.62	22.58	25.57	25.67	28.63	<=47	Pass
		Inner_1RB_Right	17.41	16.99	20.22	23.46	23.04	26.27	<=47	Pass
CP-OFDM 16 QAM	3570	Edge_1RB_Left	5.14	6.01	8.61	11.19	12.06	14.66	<=47	Pass
		Edge_1RB_Right	6.97	7.57	10.29	13.02	13.62	16.34	<=47	Pass
		Outer_Full	6.05	2.38	7.60	12.10	8.43	13.65	<=47	Pass
		Inner_Full	13.32	15.74	17.71	19.37	21.79	23.76	<=47	Pass
		Inner_1RB_Left	17.46	17.70	20.59	23.51	23.75	26.64	<=47	Pass
		Inner_1RB_Right	16.89	18.32	20.67	22.94	24.37	26.72	<=47	Pass
	3624.99	Edge_1RB_Left	15.65	16.06	18.87	21.70	22.11	24.92	<=47	Pass
		Edge_1RB_Right	14.65	13.90	17.30	20.70	19.95	23.35	<=47	Pass
		Outer_Full	10.21	9.42	12.84	16.26	15.47	18.89	<=47	Pass
		Inner_Full	14.34	13.82	17.10	20.39	19.87	23.15	<=47	Pass
		Inner_1RB_Left	16.20	13.35	18.02	22.25	19.40	24.07	<=47	Pass
		Inner_1RB_Right	15.21	13.96	17.64	21.26	20.01	23.69	<=47	Pass
	3679.98	Edge_1RB_Left	9.44	9.65	12.56	15.49	15.70	18.61	<=47	Pass
		Edge_1RB_Right	9.79	9.31	12.57	15.84	15.36	18.62	<=47	Pass
		Outer_Full	7.77	8.67	11.25	13.82	14.72	17.30	<=47	Pass
		Inner_Full	17.60	14.68	19.39	23.65	20.73	25.44	<=47	Pass
		Inner_1RB_Left	19.21	17.92	21.62	25.26	23.97	27.67	<=47	Pass
		Inner_1RB_Right	19.21	19.24	22.24	25.26	25.29	28.29	<=47	Pass
CP-OFDM 64 QAM	3570	Edge_1RB_Left	6.21	6.67	9.46	12.26	12.72	15.51	<=47	Pass
		Edge_1RB_Right	8.03	8.01	11.03	14.08	14.06	17.08	<=47	Pass
		Outer_Full	4.77	5.86	8.36	10.82	11.91	14.41	<=47	Pass
		Inner_Full	16.37	15.16	18.82	22.42	21.21	24.87	<=47	Pass
		Inner_1RB_Left	19.88	15.91	21.34	25.93	21.96	27.39	<=47	Pass
		Inner_1RB_Right	20.79	17.96	22.61	26.84	24.01	28.66	<=47	Pass
	3624.99	Edge_1RB_Left	12.89	13.17	16.04	18.94	19.22	22.09	<=47	Pass
		Edge_1RB_Right	14.48	13.63	17.09	20.53	19.68	23.14	<=47	Pass
		Outer_Full	9.92	9.53	12.74	15.97	15.58	18.79	<=47	Pass
		Inner_Full	12.29	11.98	15.15	18.34	18.03	21.20	<=47	Pass
		Inner_1RB_Left	14.68	13.84	17.29	20.73	19.89	23.34	<=47	Pass
		Inner_1RB_Right	14.02	13.68	16.86	20.07	19.73	22.91	<=47	Pass
	3679.98	Edge_1RB_Left	9.79	8.30	12.12	15.84	14.35	18.17	<=47	Pass
		Edge_1RB_Right	10.53	8.47	12.63	16.58	14.52	18.68	<=47	Pass

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		Outer_Full	7.68	7.94	10.82	13.73	13.99	16.87	<=47	Pass
		Inner_Full	17.67	17.83	20.76	23.72	23.88	26.81	<=47	Pass
		Inner_1RB_Left	19.99	18.24	22.21	26.04	24.29	28.26	<=47	Pass
		Inner_1RB_Right	19.94	18.23	22.18	25.99	24.28	28.23	<=47	Pass
CP-OFDM 256 QAM	3570	Edge_1RB_Left	5.84	5.65	8.76	11.89	11.70	14.81	<=47	Pass
		Edge_1RB_Right	4.71	6.58	8.76	10.76	12.63	14.81	<=47	Pass
		Outer_Full	6.73	4.42	8.74	12.78	10.47	14.79	<=47	Pass
		Inner_Full	16.00	16.80	19.43	22.05	22.85	25.48	<=47	Pass
		Inner_1RB_Left	18.94	17.99	21.50	24.99	24.04	27.55	<=47	Pass
		Inner_1RB_Right	17.83	19.87	21.98	23.88	25.92	28.03	<=47	Pass
	3624.99	Edge_1RB_Left	12.90	10.97	15.05	18.95	17.02	21.10	<=47	Pass
		Edge_1RB_Right	11.12	12.19	14.70	17.17	18.24	20.75	<=47	Pass
		Outer_Full	6.69	5.77	9.26	12.74	11.82	15.31	<=47	Pass
		Inner_Full	10.27	9.13	12.75	16.32	15.18	18.80	<=47	Pass
		Inner_1RB_Left	14.19	12.33	16.37	20.24	18.38	22.42	<=47	Pass
		Inner_1RB_Right	11.30	11.62	14.47	17.35	17.67	20.52	<=47	Pass
	3679.98	Edge_1RB_Left	8.52	10.14	12.42	14.57	16.19	18.47	<=47	Pass
		Edge_1RB_Right	10.48	8.45	12.59	16.53	14.50	18.64	<=47	Pass
		Outer_Full	7.59	8.54	11.10	13.64	14.59	17.15	<=47	Pass
		Inner_Full	14.19	15.78	18.07	20.24	21.83	24.12	<=47	Pass
		Inner_1RB_Left	20.63	15.41	21.77	26.68	21.46	27.82	<=47	Pass
		Inner_1RB_Right	20.21	18.14	22.31	26.26	24.19	28.36	<=47	Pass

Note1: Antenna Gain: Ant1: 6.05dBi; Ant2: 6.05dBi;

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

1.1.12 30k_MIMO_40MHz_NTNV_PSD

5G NR n48 SCS=30kHz MIMO 40MHz NTNV									
Modulation	Frequency (MHz)	RB Allocation	Conducted PSD(dBm/MHz)			E.I.R.PSD(dBm/MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Edge_1RB_Left	8.90	6.46	10.39	14.95	12.51	16.44	<=37	Pass
		Edge_1RB_Right	7.62	8.05	10.84	13.67	14.10	16.89	<=37	Pass
		Outer_Full	-1.90	-0.92	1.21	4.15	5.13	7.26	<=37	Pass
		Inner_Full	8.35	9.31	11.24	14.40	15.36	17.29	<=37	Pass
		Inner_1RB_Left	20.36	20.13	22.97	26.41	26.18	29.02	<=37	Pass
		Inner_1RB_Right	20.67	17.54	22.19	26.72	23.59	28.24	<=37	Pass

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		Edge_1RB_Left	13.59	12.62	15.74	19.64	18.67	21.79	<=37	Pass
	3624.99	Edge_1RB_Right	11.40	10.17	13.71	17.45	16.22	19.76	<=37	Pass
		Outer_Full	0.73	-0.38	2.80	6.78	5.67	8.85	<=37	Pass
		Inner_Full	1.56	3.21	4.86	7.61	9.26	10.91	<=37	Pass
		Inner_1RB_Left	14.47	14.96	17.72	20.52	21.01	23.77	<=37	Pass
		Inner_1RB_Right	10.95	11.94	14.39	17.00	17.99	20.44	<=37	Pass
		Edge_1RB_Left	10.80	11.34	13.95	16.85	17.39	20.00	<=37	Pass
	3679.98	Edge_1RB_Right	10.91	9.81	13.40	16.96	15.86	19.45	<=37	Pass
		Outer_Full	2.16	0.95	3.97	8.21	7.00	10.02	<=37	Pass
		Inner_Full	8.70	9.81	11.80	14.75	15.86	17.85	<=37	Pass
		Inner_1RB_Left	20.89	20.00	23.31	26.94	26.05	29.36	<=37	Pass
		Inner_1RB_Right	20.20	20.54	23.02	26.25	26.59	29.07	<=37	Pass
CP-OFDM 16 QAM	3570	Edge_1RB_Left	7.24	7.78	10.39	13.29	13.83	16.44	<=37	Pass
		Edge_1RB_Right	8.09	6.59	10.41	14.14	12.64	16.46	<=37	Pass
		Outer_Full	-1.96	-1.13	0.77	4.09	4.92	6.82	<=37	Pass
		Inner_Full	7.40	8.50	10.59	13.45	14.55	16.64	<=37	Pass
		Inner_1RB_Left	21.34	20.35	23.52	27.39	26.40	29.57	<=37	Pass
		Inner_1RB_Right	18.30	20.62	22.50	24.35	26.67	28.55	<=37	Pass
	3624.99	Edge_1RB_Left	13.22	13.47	15.88	19.27	19.52	21.93	<=37	Pass
		Edge_1RB_Right	12.36	10.88	14.10	18.41	16.93	20.15	<=37	Pass
		Outer_Full	-0.24	0.08	1.81	5.81	6.13	7.86	<=37	Pass
		Inner_Full	2.08	2.58	4.84	8.13	8.63	10.89	<=37	Pass
		Inner_1RB_Left	15.19	12.52	16.98	21.24	18.57	23.03	<=37	Pass
		Inner_1RB_Right	12.82	9.81	14.51	18.87	15.86	20.56	<=37	Pass
	3679.98	Edge_1RB_Left	11.12	10.27	13.72	17.17	16.32	19.77	<=37	Pass
		Edge_1RB_Right	10.09	10.78	13.41	16.14	16.83	19.46	<=37	Pass
		Outer_Full	1.52	2.49	4.79	7.57	8.54	10.84	<=37	Pass
		Inner_Full	9.37	7.21	11.05	15.42	13.26	17.10	<=37	Pass
		Inner_1RB_Left	20.34	20.12	23.12	26.39	26.17	29.17	<=37	Pass
		Inner_1RB_Right	21.38	20.52	23.98	27.43	26.57	30.03	<=37	Pass
CP-OFDM 64 QAM	3570	Edge_1RB_Left	7.88	7.41	10.00	13.93	13.46	16.05	<=37	Pass
		Edge_1RB_Right	7.98	8.24	10.48	14.03	14.29	16.53	<=37	Pass
		Outer_Full	-1.82	-1.26	0.66	4.23	4.79	6.71	<=37	Pass
		Inner_Full	8.27	9.35	11.09	14.32	15.40	17.14	<=37	Pass
		Inner_1RB_Left	19.87	20.02	22.62	25.92	26.07	28.67	<=37	Pass
		Inner_1RB_Right	19.91	20.62	23.29	25.96	26.67	29.34	<=37	Pass
	3624.99	Edge_1RB_Left	14.53	13.45	16.71	20.58	19.50	22.76	<=37	Pass
		Edge_1RB_Right	11.74	12.27	15.02	17.79	18.32	21.07	<=37	Pass

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		Outer_Full	0.18	0.37	2.27	6.23	6.42	8.32	<=37	Pass
		Inner_Full	1.16	2.92	4.45	7.21	8.97	10.50	<=37	Pass
		Inner_1RB_Left	13.34	13.43	16.15	19.39	19.48	22.20	<=37	Pass
		Inner_1RB_Right	11.78	10.06	14.01	17.83	16.11	20.06	<=37	Pass
	3679.98	Edge_1RB_Left	10.81	10.59	13.64	16.86	16.64	19.69	<=37	Pass
		Edge_1RB_Right	12.74	9.15	14.32	18.79	15.20	20.37	<=37	Pass
		Outer_Full	2.15	1.09	4.20	8.20	7.14	10.25	<=37	Pass
		Inner_Full	9.62	10.11	12.41	15.67	16.16	18.46	<=37	Pass
		Inner_1RB_Left	20.55	22.55	24.25	26.60	28.60	30.30	<=37	Pass
		Inner_1RB_Right	20.44	19.14	22.65	26.49	25.19	28.70	<=37	Pass
CP-OFDM 256 QAM	3570	Edge_1RB_Left	6.23	5.93	8.54	12.28	11.98	14.59	<=37	Pass
		Edge_1RB_Right	7.75	6.26	10.02	13.80	12.31	16.07	<=37	Pass
		Outer_Full	-1.54	-0.45	1.26	4.51	5.60	7.31	<=37	Pass
		Inner_Full	9.21	9.56	12.06	15.26	15.61	18.11	<=37	Pass
		Inner_1RB_Left	21.90	21.32	24.60	27.95	27.37	30.65	<=37	Pass
		Inner_1RB_Right	21.64	22.42	24.77	27.69	28.47	30.82	<=37	Pass
	3624.99	Edge_1RB_Left	11.38	10.96	14.19	17.43	17.01	20.24	<=37	Pass
		Edge_1RB_Right	7.97	10.45	12.13	14.02	16.50	18.18	<=37	Pass
		Outer_Full	-3.20	-2.62	-0.60	2.85	3.43	5.45	<=37	Pass
		Inner_Full	-2.20	0.20	1.19	3.85	6.25	7.24	<=37	Pass
		Inner_1RB_Left	10.81	12.58	14.79	16.86	18.63	20.84	<=37	Pass
		Inner_1RB_Right	7.43	9.22	11.17	13.48	15.27	17.22	<=37	Pass
	3679.98	Edge_1RB_Left	11.62	10.58	14.14	17.67	16.63	20.19	<=37	Pass
		Edge_1RB_Right	12.41	9.69	13.83	18.46	15.74	19.88	<=37	Pass
		Outer_Full	1.35	1.44	3.83	7.40	7.49	9.88	<=37	Pass
		Inner_Full	9.63	7.31	11.32	15.68	13.36	17.37	<=37	Pass
		Inner_1RB_Left	22.63	19.36	24.31	28.68	25.41	30.36	<=37	Pass
		Inner_1RB_Right	20.57	19.30	22.08	26.62	25.35	28.13	<=37	Pass

Note1: Antenna Gain: Ant1: 6.05dBi; Ant2: 6.05dBi;

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_40MHz

5G NR n48 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	3624.99	Outer_Full	20	LV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-19.50	-0.0054	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-10.00	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-7.40	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-11.60	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-13.30	-0.0037	>=-2.5 & <=2.5	Pass
			20	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
			40	NV	-10.30	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-12.40	-0.0034	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-19.60	-0.0054	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-9.00	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-11.30	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-12.30	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-6.90	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-8.80	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-11.40	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-15.10	-0.0042	>=-2.5 & <=2.5	Pass
			50	NV	-12.90	-0.0036	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-15.00	-0.0041	>=-2.5 & <=2.5	Pass
				HV	-11.90	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-12.40	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-16.00	-0.0044	>=-2.5 & <=2.5	Pass
			10	NV	-14.70	-0.0041	>=-2.5 & <=2.5	Pass

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			20	NV	-23.30	-0.0064	>=-2.5 & <=2.5	Pass
			30	NV	-10.90	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-14.10	-0.0039	>=-2.5 & <=2.5	Pass
			50	NV	-17.10	-0.0047	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-11.70	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-2.50	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	4.40	0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-14.00	-0.0039	>=-2.5 & <=2.5	Pass
			10	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-17.20	-0.0047	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			50	NV	-21.70	-0.0060	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	2.90	0.0008	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-16.40	-0.0045	>=-2.5 & <=2.5	Pass
			-10	NV	-13.10	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	3.50	0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-9.20	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-18.40	-0.0051	>=-2.5 & <=2.5	Pass
			30	NV	-7.00	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-12.50	-0.0034	>=-2.5 & <=2.5	Pass
			50	NV	-17.90	-0.0049	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-2.00	-0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	-15.70	-0.0043	>=-2.5 & <=2.5	Pass
			-20	NV	2.60	0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-11.80	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	4.20	0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-4.80	-0.0013	>=-2.5 & <=2.5	Pass
			50	NV	-15.40	-0.0042	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-24.40	-0.0067	>=-2.5 & <=2.5	Pass

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				HV	-7.90	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	4.80	0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-11.90	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-13.90	-0.0038	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-14.00	-0.0039	>=-2.5 & <=2.5	Pass
			20	NV	-14.00	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-15.60	-0.0043	>=-2.5 & <=2.5	Pass
			50	NV	-19.40	-0.0054	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-15.20	-0.0042	>=-2.5 & <=2.5	Pass
				HV	-11.90	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-12.10	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-7.60	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-13.80	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-8.10	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-14.20	-0.0039	>=-2.5 & <=2.5	Pass
			40	NV	0.90	0.0002	>=-2.5 & <=2.5	Pass
			50	NV	-10.30	-0.0028	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	3.60	0.0010	>=-2.5 & <=2.5	Pass
				HV	4.00	0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-13.60	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	-12.80	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	1.20	0.0003	>=-2.5 & <=2.5	Pass
			10	NV	-3.30	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	-9.40	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-9.90	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			50	NV	-3.10	-0.0009	>=-2.5 & <=2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

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3.1.1 30k_SISO_10MHz_NTNV

			5G NR n48 SCS=30kHz SISO 10MHz NTNV			
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3555	Outer_Full	8.72	10.08	/	Pass
	3624.99	Outer_Full	8.67	9.50	/	Pass
	3694.98	Outer_Full	8.62	9.57	/	Pass
DFT-s-OFDM QPSK	3555	Outer_Full	8.71	10.23	/	Pass
	3624.99	Outer_Full	8.65	9.71	/	Pass
	3694.98	Outer_Full	8.68	9.86	/	Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	8.72	10.51	/	Pass
	3624.99	Outer_Full	8.63	9.36	/	Pass
	3694.98	Outer_Full	8.68	9.93	/	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	8.72	10.42	/	Pass
	3624.99	Outer_Full	8.68	9.64	/	Pass
	3694.98	Outer_Full	8.70	9.94	/	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	8.74	10.44	/	Pass
	3624.99	Outer_Full	8.70	9.65	/	Pass
	3694.98	Outer_Full	8.91	9.44	/	Pass
CP-OFDM QPSK	3555	Outer_Full	8.73	10.28	/	Pass
	3624.99	Outer_Full	8.69	9.41	/	Pass
	3694.98	Outer_Full	8.64	9.92	/	Pass
CP-OFDM 16 QAM	3555	Outer_Full	8.74	9.97	/	Pass
	3624.99	Outer_Full	8.75	9.89	/	Pass
	3694.98	Outer_Full	8.70	10.05	/	Pass
CP-OFDM 64 QAM	3555	Outer_Full	8.75	10.20	/	Pass
	3624.99	Outer_Full	8.66	9.76	/	Pass
	3694.98	Outer_Full	8.66	9.57	/	Pass
CP-OFDM 256 QAM	3555	Outer_Full	8.71	10.35	/	Pass
	3624.99	Outer_Full	8.71	9.51	/	Pass
	3694.98	Outer_Full	8.79	9.25	/	Pass

3.1.2 30k_SISO_20MHz_NTNV

			5G NR n48 SCS=30kHz SISO 20MHz NTNV			
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict

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DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	18.15	19.60	/	Pass
	3624.99	Outer_Full	18.16	19.62	/	Pass
	3690	Outer_Full	18.05	19.69	/	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	18.10	20.09	/	Pass
	3624.99	Outer_Full	18.14	19.45	/	Pass
	3690	Outer_Full	18.14	19.60	/	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	18.11	20.08	/	Pass
	3624.99	Outer_Full	18.12	20.03	/	Pass
	3690	Outer_Full	18.15	19.65	/	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	18.08	19.92	/	Pass
	3624.99	Outer_Full	18.06	19.32	/	Pass
	3690	Outer_Full	18.19	19.48	/	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	18.09	19.92	/	Pass
	3624.99	Outer_Full	18.02	19.55	/	Pass
	3690	Outer_Full	18.01	19.60	/	Pass
CP-OFDM QPSK	3560.01	Outer_Full	18.45	20.29	/	Pass
	3624.99	Outer_Full	18.36	20.25	/	Pass
	3690	Outer_Full	18.47	19.86	/	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	18.42	20.28	/	Pass
	3624.99	Outer_Full	18.46	19.53	/	Pass
	3690	Outer_Full	18.35	19.90	/	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	18.39	20.47	/	Pass
	3624.99	Outer_Full	18.43	19.70	/	Pass
	3690	Outer_Full	18.22	19.85	/	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	18.49	20.42	/	Pass
	3624.99	Outer_Full	18.38	19.66	/	Pass
	3690	Outer_Full	18.20	19.50	/	Pass

3.1.3 30k_SISO_30MHz_NTNV

5G NR n48 SCS=30kHz SISO 30MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3565.02	Outer_Full	27.05	28.88	/	Pass
	3624.99	Outer_Full	27.18	29.12	/	Pass
	3684.99	Outer_Full	27.15	29.28	/	Pass
DFT-s-OFDM QPSK	3565.02	Outer_Full	27.13	29.05	/	Pass
	3624.99	Outer_Full	27.16	29.00	/	Pass

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	3684.99	Outer_Full	27.08	28.92	/	Pass
DFT-s-OFDM 16 QAM	3565.02	Outer_Full	27.22	28.89	/	Pass
	3624.99	Outer_Full	27.25	28.96	/	Pass
	3684.99	Outer_Full	27.27	29.07	/	Pass
DFT-s-OFDM 64 QAM	3565.02	Outer_Full	27.21	28.73	/	Pass
	3624.99	Outer_Full	27.12	29.14	/	Pass
	3684.99	Outer_Full	27.12	29.13	/	Pass
DFT-s-OFDM 256 QAM	3565.02	Outer_Full	27.08	28.96	/	Pass
	3624.99	Outer_Full	27.10	29.05	/	Pass
	3684.99	Outer_Full	27.18	29.04	/	Pass
CP-OFDM QPSK	3565.02	Outer_Full	28.02	30.11	/	Pass
	3624.99	Outer_Full	28.10	29.89	/	Pass
	3684.99	Outer_Full	28.32	30.10	/	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	28.21	29.98	/	Pass
	3624.99	Outer_Full	28.11	30.05	/	Pass
	3684.99	Outer_Full	28.27	30.00	/	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	28.04	30.60	/	Pass
	3624.99	Outer_Full	28.21	30.66	/	Pass
	3684.99	Outer_Full	27.94	29.91	/	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	28.18	29.83	/	Pass
	3624.99	Outer_Full	28.32	30.18	/	Pass
	3684.99	Outer_Full	28.08	30.29	/	Pass

3.1.4 30k_SISO_40MHz_NTNV

5G NR n48 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	3570	Outer_Full	36.19	38.55	/	Pass
	3624.99	Outer_Full	36.24	38.28	/	Pass
	3679.98	Outer_Full	36.07	38.33	/	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	36.13	38.62	/	Pass
	3624.99	Outer_Full	35.88	38.37	/	Pass
	3679.98	Outer_Full	36.00	38.43	/	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	36.11	38.30	/	Pass
	3624.99	Outer_Full	36.03	38.55	/	Pass
	3679.98	Outer_Full	36.18	38.53	/	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	36.16	38.58	/	Pass

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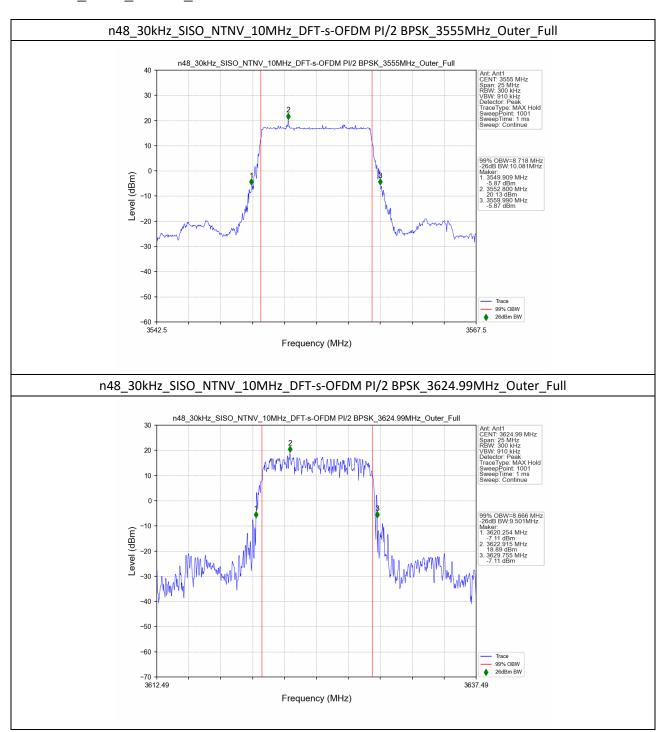中国·广东·深圳市南山区科技园中区M-10栋1号厂房   邮编：518057   t (86–755) 26012053   sgs.china@sgs.com

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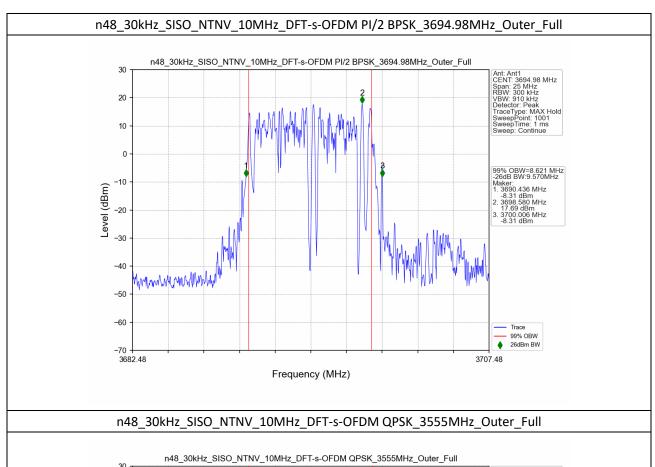|	3624.99	Outer_Full	35.94	38.37	/	Pass
	3679.98	Outer_Full	35.91	38.45	/	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	36.03	38.65	/	Pass
	3624.99	Outer_Full	35.97	38.34	/	Pass
	3679.98	Outer_Full	36.10	38.37	/	Pass
CP-OFDM QPSK	3570	Outer_Full	38.17	40.54	/	Pass
	3624.99	Outer_Full	37.95	40.56	/	Pass
	3679.98	Outer_Full	37.92	40.60	/	Pass
CP-OFDM 16 QAM	3570	Outer_Full	37.79	40.71	/	Pass
	3624.99	Outer_Full	38.22	40.82	/	Pass
	3679.98	Outer_Full	38.12	40.69	/	Pass
CP-OFDM 64 QAM	3570	Outer_Full	37.94	40.76	/	Pass
	3624.99	Outer_Full	38.11	40.82	/	Pass
	3679.98	Outer_Full	38.19	40.65	/	Pass
CP-OFDM 256 QAM	3570	Outer_Full	38.13	40.59	/	Pass
	3624.99	Outer_Full	38.07	40.72	/	Pass
	3679.98	Outer_Full	38.13	40.37	/	Pass

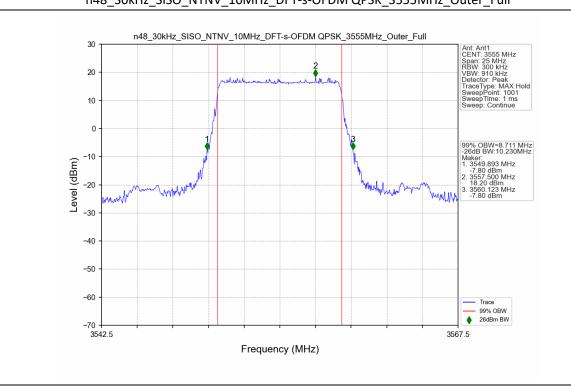No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057   t (86-755) 26012053   www.sgsgroup.com.cn
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3.2 Test Graph

3.2.1 30k_SISO_10MHz_NTNV

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Outer_Full

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Outer_Full

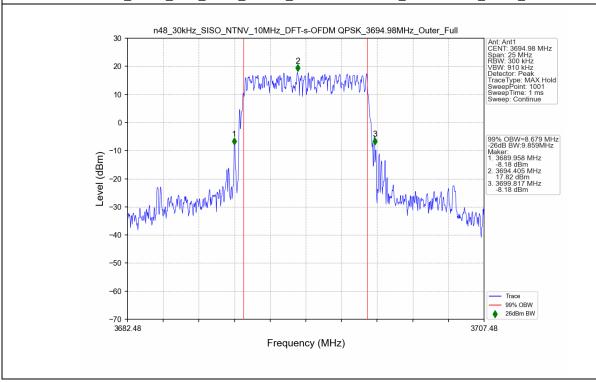No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 www.sgsgroup.com.cn
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Outer_Full

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Outer_Full

Ant: Ant1
CENT: 3694.98 MHz
Span: 25 MHz
RBW: 300 kHz
VBW: 910 kHz
Detector: Peak
TraceType: MAX Hold
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Continue

99% OBW=8.621 MHz
-26dB BW:9.570MHz
Maker:
1. 3690.436 MHz
   -8.31 dBm
2. 3698.580 MHz
   17.69 dBm
3. 3700.006 MHz
   -8.31 dBm

Trace
99% OBW
26dBm BW

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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full

Ant: Ant1
CENT: 3555 MHz
Span: 25 MHz
RBW: 300 kHz
VBW: 910 kHz
Detector: Peak
TraceType: MAX Hold
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Continue

99% OBW=8.711 MHz
-26dB BW:10.230MHz
Maker:
1. 3549.893 MHz
   -7.80 dBm
2. 3557.500 MHz
   18.20 dBm
3. 3560.123 MHz
   -7.80 dBm

Trace
99% OBW
26dBm BW

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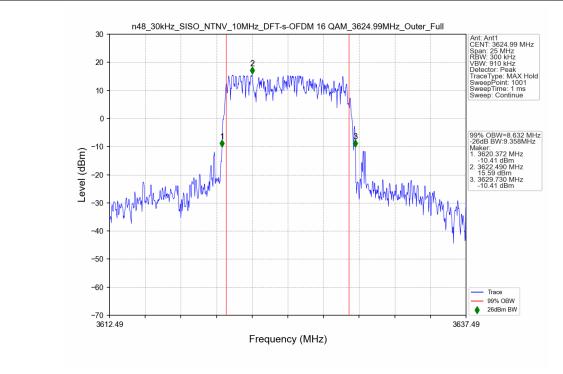| n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full |
|---|

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3694.98MHz_Outer_Full

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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3555MHz_Outer_Full

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3555MHz_Outer_Full

Ant: Ant1
CENT: 3555 MHz
Span: 25 MHz
RBW: 300 kHz
VBW: 910 kHz
Detector: Peak
TraceType: MAX Hold
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Continue

99% OBW=8.720 MHz
-26dB BW:10.510MHz
Maker:
1. 3549.799 MHz
   -8.19 dBm
2. 3552.225 MHz
   17.81 dBm
3. 3560.309 MHz
   -8.19 dBm

Trace
99% OBW
26dBm BW

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3624.99MHz_Outer_Full

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3624.99MHz_Outer_Full

Ant: Ant1
CENT: 3624.99 MHz
Span: 25 MHz
RBW: 300 kHz
VBW: 910 kHz
Detector: Peak
TraceType: MAX Hold
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Continue

99% OBW=8.632 MHz
-26dB BW:9.358MHz
Maker:
1. 3620.372 MHz
   -10.41 dBm
2. 3622.490 MHz
   15.59 dBm
3. 3629.730 MHz
   -10.41 dBm

Trace
99% OBW
26dBm BW

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