

Appendix for N77(3700-3980MHz)

Product Name: Rugged handheld

Model No: UA60

Appendix A: Average Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
N77-3700-3980	30	20	DFT-QPSK	L	Outer_Full	23.84	PC2	PASS
N77-3700-3980	30	20	DFT-QPSK	L	Inner_Full	24.86	PC2	PASS
N77-3700-3980	30	20	DFT-QPSK	L	Edge_1RB_Left	24.06	PC2	PASS
N77-3700-3980	30	20	DFT-QPSK	L	Edge_1RB_Right	24.07	PC2	PASS
N77-3700-3980	30	20	DFT-16QAM	L	Outer_Full	23.01	PC2	PASS
N77-3700-3980	30	20	DFT-16QAM	L	Inner_Full	24.08	PC2	PASS
N77-3700-3980	30	20	DFT-16QAM	L	Edge_1RB_Left	22.94	PC2	PASS
N77-3700-3980	30	20	DFT-16QAM	L	Edge_1RB_Right	22.74	PC2	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Outer_Full	24.27	PC2	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Inner_Full	25.31	PC2	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Edge_1RB_Left	24.37	PC2	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Edge_1RB_Right	24.07	PC2	PASS
N77-3700-3980	30	20	DFT-16QAM	M	Outer_Full	23.40	PC2	PASS
N77-3700-3980	30	20	DFT-16QAM	M	Inner_Full	24.13	PC2	PASS
N77-3700-3980	30	20	DFT-16QAM	M	Edge_1RB_Left	23.26	PC2	PASS
N77-3700-3980	30	20	DFT-16QAM	M	Edge_1RB_Right	23.17	PC2	PASS
N77-3700-3980	30	20	DFT-QPSK	H	Outer_Full	22.80	PC2	PASS
N77-3700-3980	30	20	DFT-QPSK	H	Inner_Full	23.55	PC2	PASS

N77-3700 -3980	30	20	DFT-QPSK	H	Edge_1RB_Left	22.91	PC2	PASS
N77-3700 -3980	30	20	DFT-QPSK	H	Edge_1RB_Right	22.42	PC2	PASS
N77-3700 -3980	30	20	DFT-16QAM	H	Outer_Full	21.82	PC2	PASS
N77-3700 -3980	30	20	DFT-16QAM	H	Inner_Full	22.51	PC2	PASS
N77-3700 -3980	30	20	DFT-16QAM	H	Edge_1RB_Left	22.01	PC2	PASS
N77-3700 -3980	30	20	DFT-16QAM	H	Edge_1RB_Right	21.64	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	L	Outer_Full	24.13	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	L	Inner_Full	24.78	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	L	Edge_1RB_Left	24.17	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	L	Edge_1RB_Right	24.35	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	L	Outer_Full	23.20	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	L	Inner_Full	24.06	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	L	Edge_1RB_Left	23.03	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	L	Edge_1RB_Right	23.11	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	M	Outer_Full	24.15	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	M	Inner_Full	25.11	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	M	Edge_1RB_Left	24.58	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	M	Edge_1RB_Right	24.38	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	M	Outer_Full	23.13	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	M	Inner_Full	24.07	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	M	Edge_1RB_Left	23.28	PC2	PASS
N77-3700	30	30	DFT-16QAM	M	Edge_1RB_Right	23.27	PC2	PASS

-3980								
N77-3700 -3980	30	30	DFT-QPSK	H	Outer_Full	22.87	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	H	Inner_Full	23.97	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	H	Edge_1RB_Left	22.59	PC2	PASS
N77-3700 -3980	30	30	DFT-QPSK	H	Edge_1RB_Right	22.62	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	H	Outer_Full	21.69	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	H	Inner_Full	22.95	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	H	Edge_1RB_Left	21.65	PC2	PASS
N77-3700 -3980	30	30	DFT-16QAM	H	Edge_1RB_Right	21.41	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	L	Outer_Full	24.23	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	L	Inner_Full	25.10	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	L	Edge_1RB_Left	24.31	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	L	Edge_1RB_Right	24.49	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	L	Outer_Full	22.97	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	L	Inner_Full	24.08	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	L	Edge_1RB_Left	23.29	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	L	Edge_1RB_Right	23.37	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	M	Outer_Full	24.29	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	M	Inner_Full	25.34	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	M	Edge_1RB_Left	24.66	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	M	Edge_1RB_Right	24.36	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	M	Outer_Full	23.45	PC2	PASS

N77-3700 -3980	30	40	DFT-16QAM	M	Inner_Full	24.40	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	M	Edge_1RB_Left	23.61	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	M	Edge_1RB_Right	23.51	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	H	Outer_Full	22.51	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	H	Inner_Full	23.86	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	H	Edge_1RB_Left	22.82	PC2	PASS
N77-3700 -3980	30	40	DFT-QPSK	H	Edge_1RB_Right	22.78	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	H	Outer_Full	21.58	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	H	Inner_Full	22.73	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	H	Edge_1RB_Left	21.80	PC2	PASS
N77-3700 -3980	30	40	DFT-16QAM	H	Edge_1RB_Right	21.76	PC2	PASS
N77-3700 -3980	30	60	DFT-QPSK	L	Outer_Full	24.04	PC2	PASS
N77-3700 -3980	30	60	DFT-QPSK	L	Inner_Full	25.12	PC2	PASS
N77-3700 -3980	30	60	DFT-QPSK	L	Edge_1RB_Left	23.68	PC2	PASS
N77-3700 -3980	30	60	DFT-QPSK	L	Edge_1RB_Right	24.12	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	L	Outer_Full	22.91	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	L	Inner_Full	24.04	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	L	Edge_1RB_Left	22.88	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	L	Edge_1RB_Right	23.25	PC2	PASS
N77-3700 -3980	30	60	DFT-QPSK	M	Outer_Full	24.21	PC2	PASS
N77-3700 -3980	30	60	DFT-QPSK	M	Inner_Full	24.94	PC2	PASS
N77-3700	30	60	DFT-QPSK	M	Edge_1RB_Left	24.03	PC2	PASS

-3980								
N77-3700 -3980	30	60	DFT-QPSK	M	Edge_1RB_Right	23.62	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	M	Outer_Full	23.22	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	M	Inner_Full	23.96	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	M	Edge_1RB_Left	23.21	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	M	Edge_1RB_Right	22.65	PC2	PASS
N77-3700 -3980	30	60	DFT-QPSK	H	Outer_Full	22.67	PC2	PASS
N77-3700 -3980	30	60	DFT-QPSK	H	Inner_Full	23.38	PC2	PASS
N77-3700 -3980	30	60	DFT-QPSK	H	Edge_1RB_Left	22.67	PC2	PASS
N77-3700 -3980	30	60	DFT-QPSK	H	Edge_1RB_Right	22.35	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	H	Outer_Full	21.50	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	H	Inner_Full	22.44	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	H	Edge_1RB_Left	21.76	PC2	PASS
N77-3700 -3980	30	60	DFT-16QAM	H	Edge_1RB_Right	21.15	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	L	Outer_Full	24.52	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	L	Inner_Full	25.36	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	L	Edge_1RB_Left	24.24	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	L	Edge_1RB_Right	24.48	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	L	Outer_Full	23.52	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	L	Inner_Full	24.59	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	L	Edge_1RB_Left	22.96	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	L	Edge_1RB_Right	23.41	PC2	PASS

N77-3700 -3980	30	80	DFT-QPSK	M	Outer_Full	24.15	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	M	Inner_Full	25.29	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	M	Edge_1RB_Left	24.36	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	M	Edge_1RB_Right	23.28	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	M	Outer_Full	22.95	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	M	Inner_Full	24.08	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	M	Edge_1RB_Left	23.46	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	M	Edge_1RB_Right	22.50	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	H	Outer_Full	22.89	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	H	Inner_Full	23.58	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	H	Edge_1RB_Left	23.20	PC2	PASS
N77-3700 -3980	30	80	DFT-QPSK	H	Edge_1RB_Right	22.70	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	H	Outer_Full	21.79	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	H	Inner_Full	22.80	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	H	Edge_1RB_Left	22.22	PC2	PASS
N77-3700 -3980	30	80	DFT-16QAM	H	Edge_1RB_Right	21.48	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	L	Outer_Full	24.54	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	L	Inner_Full	25.56	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	L	Edge_1RB_Left	23.91	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	L	Edge_1RB_Right	24.24	PC2	PASS
N77-3700 -3980	30	100	DFT-16QAM	L	Outer_Full	23.24	PC2	PASS
N77-3700	30	100	DFT-16QAM	L	Inner_Full	24.53	PC2	PASS

-3980								
N77-3700 -3980	30	100	DFT-16QAM	L	Edge_1RB_Left	22.94	PC2	PASS
N77-3700 -3980	30	100	DFT-16QAM	L	Edge_1RB_Right	23.31	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	M	Outer_Full	23.97	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	M	Inner_Full	25.22	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	M	Edge_1RB_Left	24.35	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	M	Edge_1RB_Right	23.55	PC2	PASS
N77-3700 -3980	30	100	DFT-16QAM	M	Outer_Full	23.14	PC2	PASS
N77-3700 -3980	30	100	DFT-16QAM	M	Inner_Full	24.22	PC2	PASS
N77-3700 -3980	30	100	DFT-16QAM	M	Edge_1RB_Left	23.12	PC2	PASS
N77-3700 -3980	30	100	DFT-16QAM	M	Edge_1RB_Right	22.57	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	H	Outer_Full	23.05	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	H	Inner_Full	23.85	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	H	Edge_1RB_Left	23.10	PC2	PASS
N77-3700 -3980	30	100	DFT-QPSK	H	Edge_1RB_Right	22.65	PC2	PASS
N77-3700 -3980	30	100	DFT-16QAM	H	Outer_Full	21.99	PC2	PASS
N77-3700 -3980	30	100	DFT-16QAM	H	Inner_Full	22.59	PC2	PASS
N77-3700 -3980	30	100	DFT-16QAM	H	Edge_1RB_Left	22.38	PC2	PASS
N77-3700 -3980	30	100	DFT-16QAM	H	Edge_1RB_Right	21.64	PC2	PASS

Appendix B: Peak-to-Average Ratio for SA

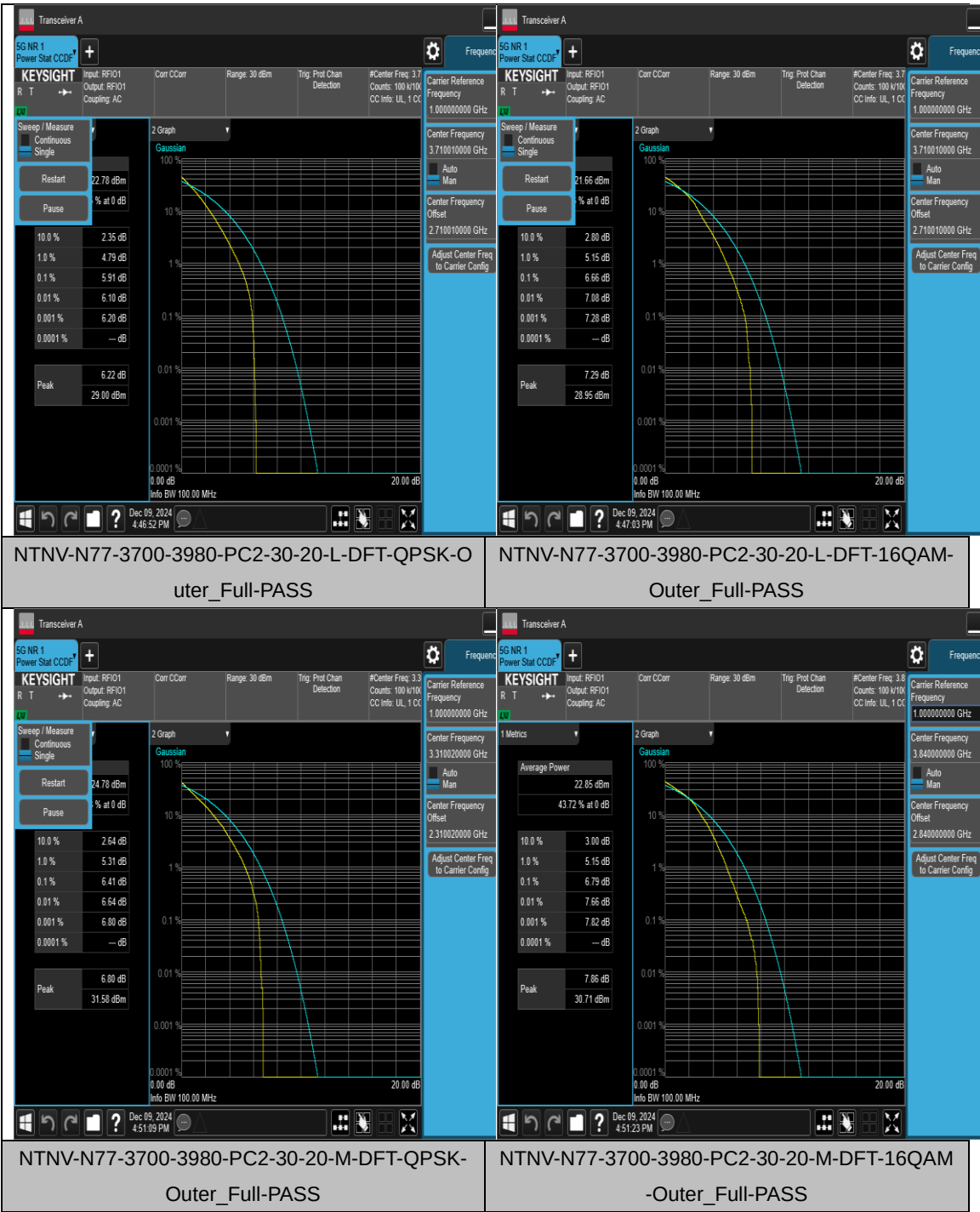
Peak-to-Average Ratio(CCDF)

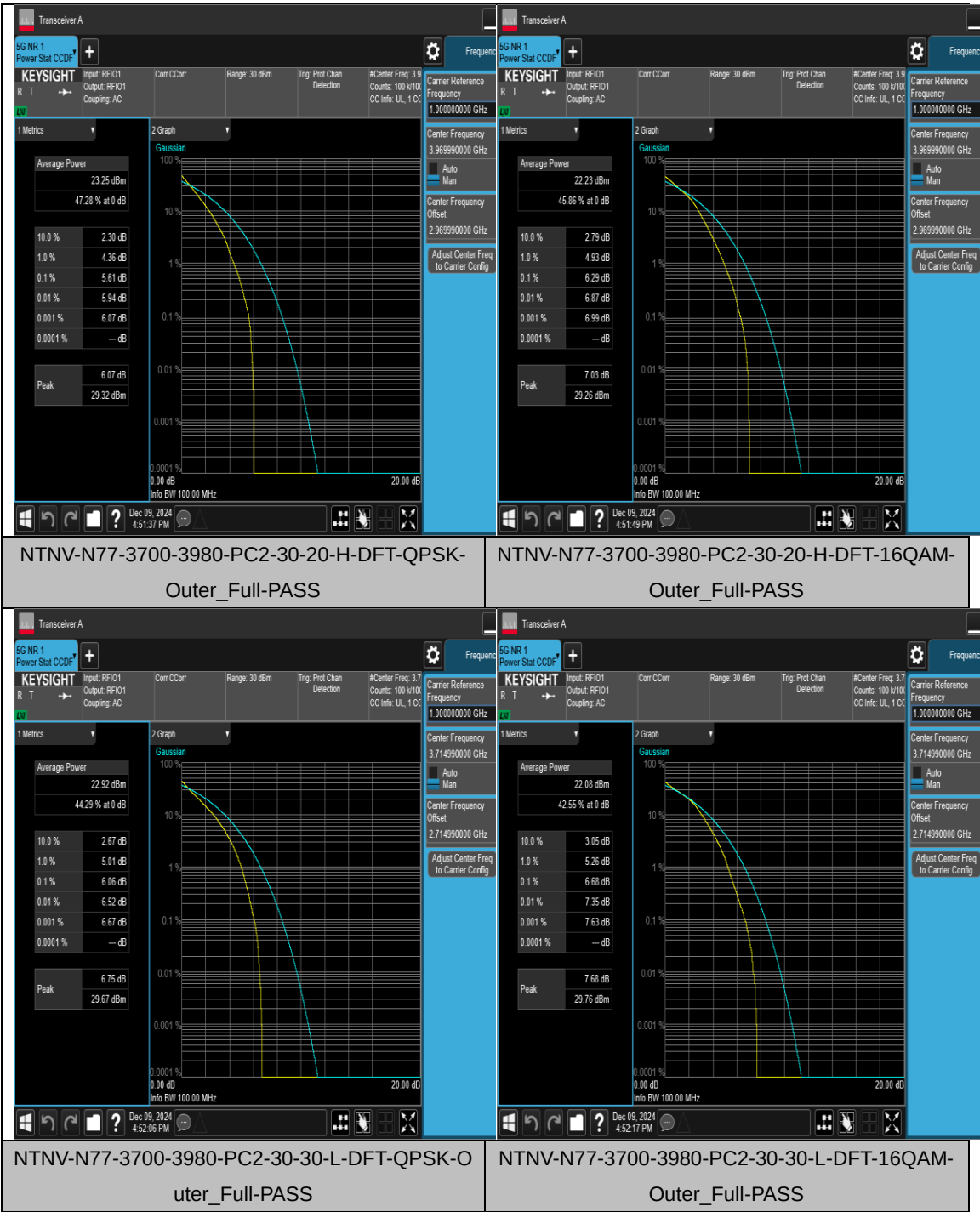
Test Result

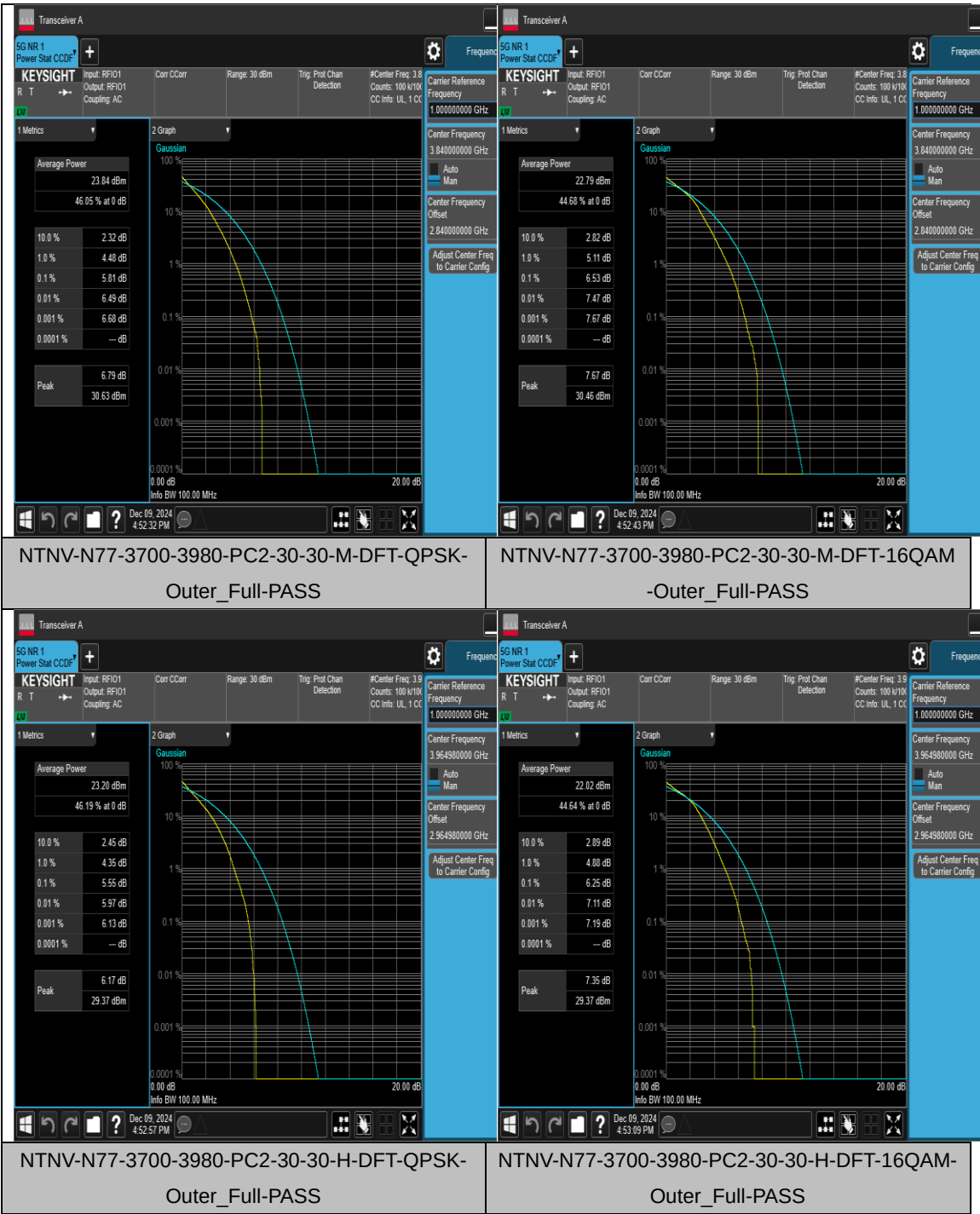
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N77-3700-3980	30	20	DFT-QPSK	L	Outer_Full	5.91	≤13	PASS
N77-3700-3980	30	20	DFT-16QAM	L	Outer_Full	6.66	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Outer_Full	6.41	≤13	PASS
N77-3700-3980	30	20	DFT-16QAM	M	Outer_Full	6.79	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	H	Outer_Full	5.61	≤13	PASS
N77-3700-3980	30	20	DFT-16QAM	H	Outer_Full	6.29	≤13	PASS
N77-3700-3980	30	30	DFT-QPSK	L	Outer_Full	6.06	≤13	PASS
N77-3700-3980	30	30	DFT-16QAM	L	Outer_Full	6.68	≤13	PASS
N77-3700-3980	30	30	DFT-QPSK	M	Outer_Full	5.81	≤13	PASS
N77-3700-3980	30	30	DFT-16QAM	M	Outer_Full	6.53	≤13	PASS
N77-3700-3980	30	30	DFT-QPSK	H	Outer_Full	5.55	≤13	PASS
N77-3700-3980	30	30	DFT-16QAM	H	Outer_Full	6.25	≤13	PASS
N77-3700-3980	30	40	DFT-QPSK	L	Outer_Full	5.96	≤13	PASS
N77-3700-3980	30	40	DFT-16QAM	L	Outer_Full	6.87	≤13	PASS
N77-3700-3980	30	40	DFT-QPSK	M	Outer_Full	5.95	≤13	PASS
N77-3700-3980	30	40	DFT-16QAM	M	Outer_Full	6.64	≤13	PASS
N77-3700-3980	30	40	DFT-QPSK	H	Outer_Full	5.62	≤13	PASS
N77-3700-3980	30	40	DFT-16QAM	H	Outer_Full	6.40	≤13	PASS

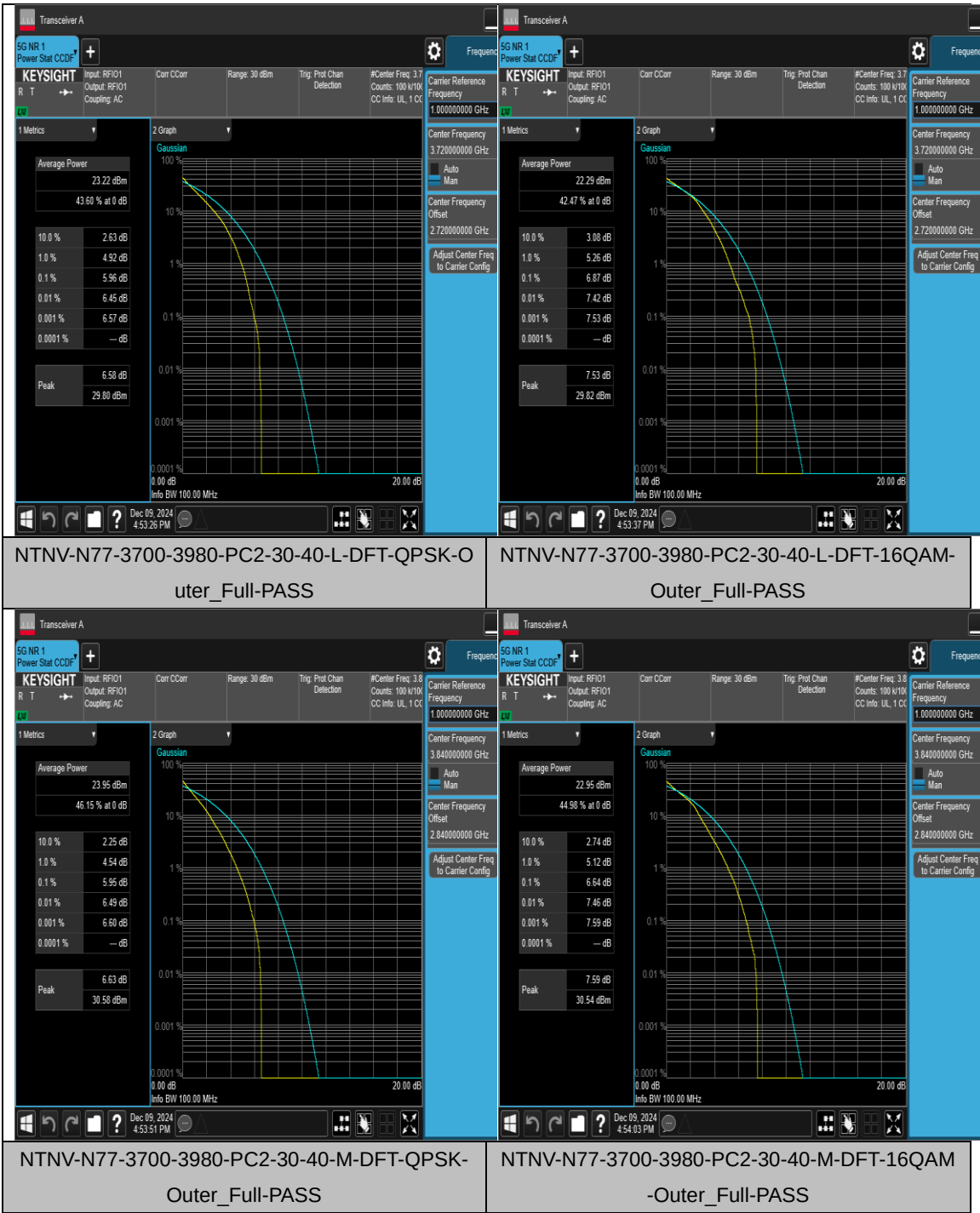
3980								
N77-3700-3980	30	60	DFT-QPSK	L	Outer_Full	5.71	≤13	PASS
N77-3700-3980	30	60	DFT-16QAM	L	Outer_Full	6.56	≤13	PASS
N77-3700-3980	30	60	DFT-QPSK	M	Outer_Full	6.18	≤13	PASS
N77-3700-3980	30	60	DFT-16QAM	M	Outer_Full	6.71	≤13	PASS
N77-3700-3980	30	60	DFT-QPSK	H	Outer_Full	5.89	≤13	PASS
N77-3700-3980	30	60	DFT-16QAM	H	Outer_Full	6.39	≤13	PASS
N77-3700-3980	30	80	DFT-QPSK	L	Outer_Full	5.61	≤13	PASS
N77-3700-3980	30	80	DFT-16QAM	L	Outer_Full	6.35	≤13	PASS
N77-3700-3980	30	80	DFT-QPSK	M	Outer_Full	5.81	≤13	PASS
N77-3700-3980	30	80	DFT-16QAM	M	Outer_Full	6.62	≤13	PASS
N77-3700-3980	30	80	DFT-QPSK	H	Outer_Full	5.78	≤13	PASS
N77-3700-3980	30	80	DFT-16QAM	H	Outer_Full	6.39	≤13	PASS
N77-3700-3980	30	100	DFT-QPSK	L	Outer_Full	5.76	≤13	PASS
N77-3700-3980	30	100	DFT-16QAM	L	Outer_Full	6.64	≤13	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	5.75	≤13	PASS
N77-3700-3980	30	100	DFT-16QAM	M	Outer_Full	6.47	≤13	PASS
N77-3700-3980	30	100	DFT-QPSK	H	Outer_Full	5.80	≤13	PASS
N77-3700-3980	30	100	DFT-16QAM	H	Outer_Full	6.49	≤13	PASS

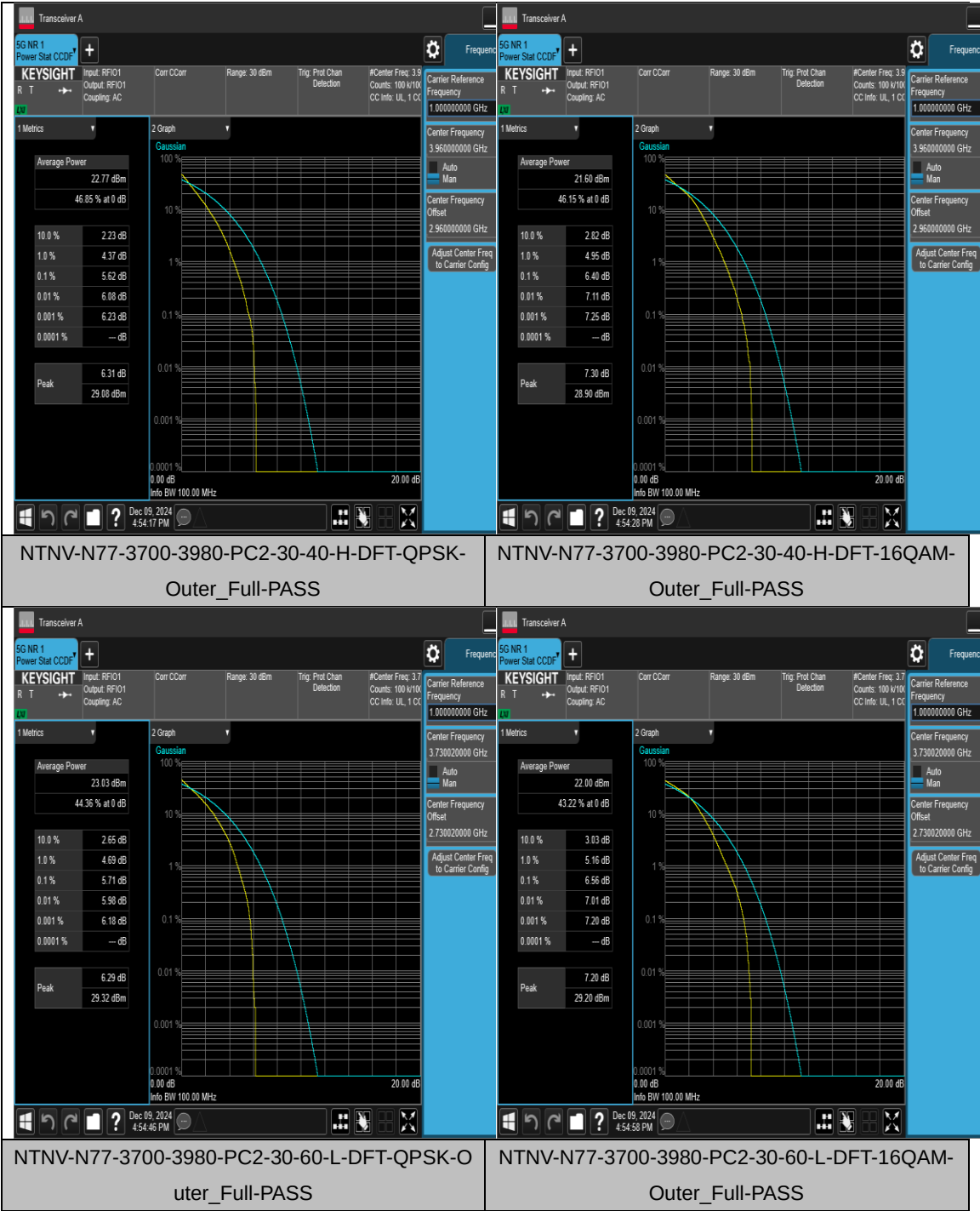
Test Graphs

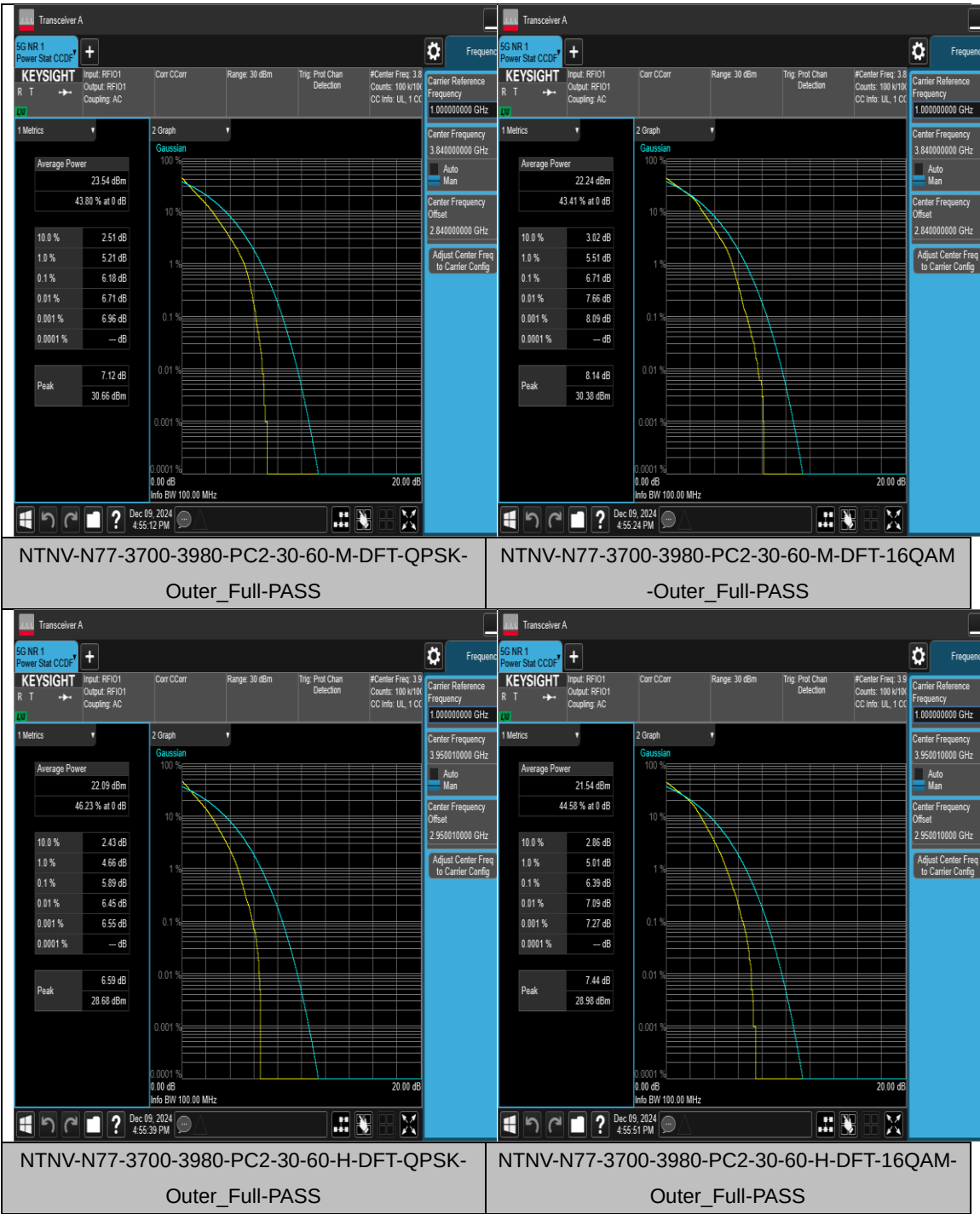


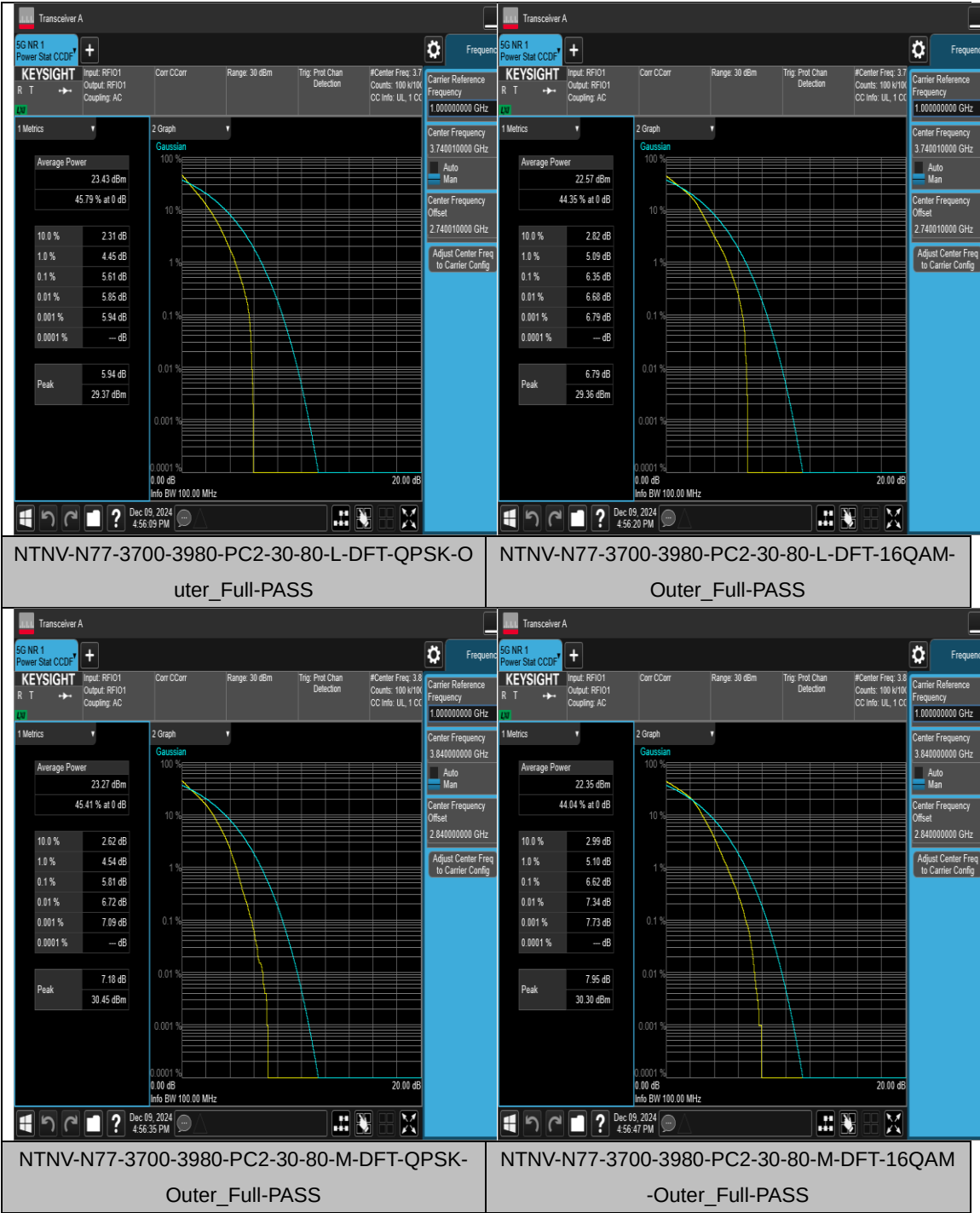


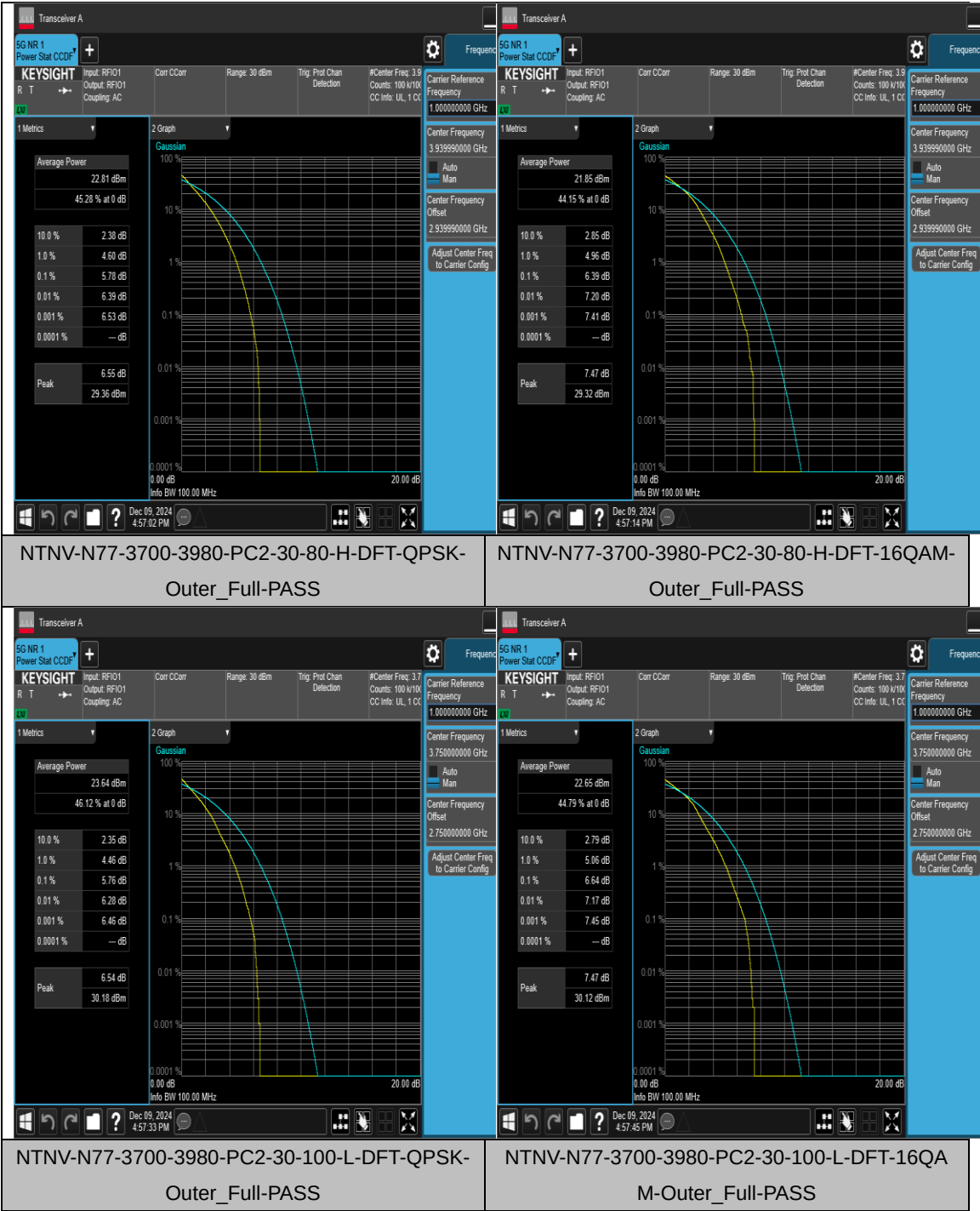


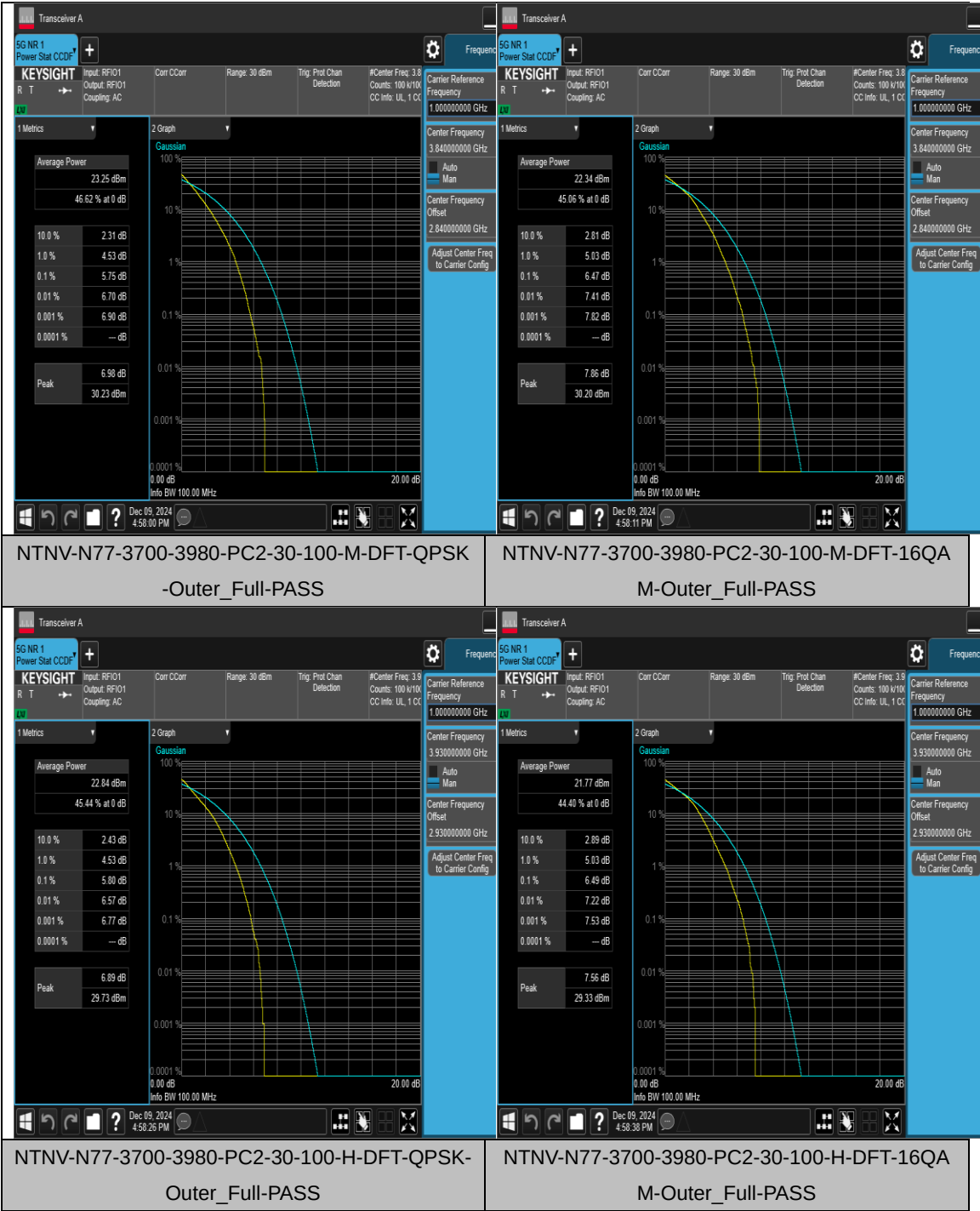












Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N77-3700 -3980	30	20	DFT-QPSK	L	Outer_Full	17.861	19.70	PASS
N77-3700 -3980	30	20	DFT-16QAM	L	Outer_Full	17.927	19.26	PASS
N77-3700 -3980	30	20	DFT-QPSK	M	Outer_Full	17.915	19.46	PASS
N77-3700 -3980	30	20	DFT-16QAM	M	Outer_Full	17.886	19.16	PASS
N77-3700 -3980	30	20	DFT-QPSK	H	Outer_Full	17.925	19.51	PASS
N77-3700 -3980	30	20	DFT-16QAM	H	Outer_Full	17.894	19.60	PASS
N77-3700 -3980	30	30	DFT-QPSK	L	Outer_Full	26.809	29.01	PASS
N77-3700 -3980	30	30	DFT-16QAM	L	Outer_Full	26.851	28.79	PASS
N77-3700 -3980	30	30	DFT-QPSK	M	Outer_Full	26.843	28.75	PASS
N77-3700 -3980	30	30	DFT-16QAM	M	Outer_Full	26.800	28.85	PASS
N77-3700 -3980	30	30	DFT-QPSK	H	Outer_Full	26.841	28.73	PASS
N77-3700 -3980	30	30	DFT-16QAM	H	Outer_Full	26.727	28.45	PASS
N77-3700 -3980	30	40	DFT-QPSK	L	Outer_Full	35.743	37.86	PASS
N77-3700 -3980	30	40	DFT-16QAM	L	Outer_Full	35.741	37.90	PASS
N77-3700 -3980	30	40	DFT-QPSK	M	Outer_Full	35.633	37.95	PASS
N77-3700 -3980	30	40	DFT-16QAM	M	Outer_Full	35.612	38.00	PASS
N77-3700 -3980	30	40	DFT-QPSK	H	Outer_Full	35.814	38.37	PASS
N77-3700 -3980	30	40	DFT-16QAM	H	Outer_Full	35.761	38.25	PASS

N77-3700 -3980	30	60	DFT-QPSK	L	Outer_Full	57.929	60.52	PASS
N77-3700 -3980	30	60	DFT-16QAM	L	Outer_Full	57.824	60.72	PASS
N77-3700 -3980	30	60	DFT-QPSK	M	Outer_Full	57.837	60.63	PASS
N77-3700 -3980	30	60	DFT-16QAM	M	Outer_Full	57.871	60.62	PASS
N77-3700 -3980	30	60	DFT-QPSK	H	Outer_Full	57.930	60.54	PASS
N77-3700 -3980	30	60	DFT-16QAM	H	Outer_Full	57.942	60.40	PASS
N77-3700 -3980	30	80	DFT-QPSK	L	Outer_Full	77.204	80.79	PASS
N77-3700 -3980	30	80	DFT-16QAM	L	Outer_Full	76.944	80.41	PASS
N77-3700 -3980	30	80	DFT-QPSK	M	Outer_Full	77.035	80.32	PASS
N77-3700 -3980	30	80	DFT-16QAM	M	Outer_Full	77.002	81.56	PASS
N77-3700 -3980	30	80	DFT-QPSK	H	Outer_Full	77.053	80.78	PASS
N77-3700 -3980	30	80	DFT-16QAM	H	Outer_Full	77.381	80.39	PASS
N77-3700 -3980	30	100	DFT-QPSK	L	Outer_Full	96.568	101.0	PASS
N77-3700 -3980	30	100	DFT-16QAM	L	Outer_Full	96.253	100.9	PASS
N77-3700 -3980	30	100	DFT-QPSK	M	Outer_Full	96.229	99.63	PASS
N77-3700 -3980	30	100	DFT-16QAM	M	Outer_Full	96.440	100.1	PASS
N77-3700 -3980	30	100	DFT-QPSK	H	Outer_Full	96.243	102.3	PASS
N77-3700 -3980	30	100	DFT-16QAM	H	Outer_Full	96.579	100.2	PASS

Test Graphs

