

Appendix for N5

Product Name: 5G Indoor CPE

Model No: TITAN 5000

Appendix A: Average Power Output Data

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	22.61	PC3	PASS
N5	15	5	DFT-QPSK	L	Inner_Full	23.47	PC3	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	22.53	PC3	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Right	22.47	PC3	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	21.61	PC3	PASS
N5	15	5	DFT-16QAM	L	Inner_Full	22.49	PC3	PASS
N5	15	5	DFT-16QAM	L	Edge_1RB_Left	21.97	PC3	PASS
N5	15	5	DFT-16QAM	L	Edge_1RB_Right	21.81	PC3	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	22.59	PC3	PASS
N5	15	5	DFT-QPSK	M	Inner_Full	23.62	PC3	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	22.53	PC3	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Right	22.60	PC3	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	21.57	PC3	PASS
N5	15	5	DFT-16QAM	M	Inner_Full	22.58	PC3	PASS
N5	15	5	DFT-16QAM	M	Edge_1RB_Left	21.89	PC3	PASS
N5	15	5	DFT-16QAM	M	Edge_1RB_Right	21.95	PC3	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	22.77	PC3	PASS
N5	15	5	DFT-QPSK	H	Inner_Full	23.64	PC3	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	22.83	PC3	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	22.72	PC3	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	21.79	PC3	PASS
N5	15	5	DFT-16QAM	H	Inner_Full	22.54	PC3	PASS
N5	15	5	DFT-16QAM	H	Edge_1RB_Left	22.17	PC3	PASS
N5	15	5	DFT-16QAM	H	Edge_1RB_Right	22.03	PC3	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	22.48	PC3	PASS
N5	15	10	DFT-QPSK	L	Inner_Full	23.49	PC3	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	22.46	PC3	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Right	22.30	PC3	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	21.66	PC3	PASS
N5	15	10	DFT-16QAM	L	Inner_Full	22.52	PC3	PASS
N5	15	10	DFT-16QAM	L	Edge_1RB_Left	21.81	PC3	PASS
N5	15	10	DFT-16QAM	L	Edge_1RB_Right	21.63	PC3	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	22.67	PC3	PASS
N5	15	10	DFT-QPSK	M	Inner_Full	23.63	PC3	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	22.38	PC3	PASS

N5	15	10	DFT-QPSK	M	Edge_1RB_Right	22.49	PC3	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	21.63	PC3	PASS
N5	15	10	DFT-16QAM	M	Inner_Full	22.63	PC3	PASS
N5	15	10	DFT-16QAM	M	Edge_1RB_Left	21.60	PC3	PASS
N5	15	10	DFT-16QAM	M	Edge_1RB_Right	21.84	PC3	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	22.72	PC3	PASS
N5	15	10	DFT-QPSK	H	Inner_Full	23.72	PC3	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	22.72	PC3	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	22.53	PC3	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	21.78	PC3	PASS
N5	15	10	DFT-16QAM	H	Inner_Full	22.83	PC3	PASS
N5	15	10	DFT-16QAM	H	Edge_1RB_Left	21.90	PC3	PASS
N5	15	10	DFT-16QAM	H	Edge_1RB_Right	21.86	PC3	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	22.66	PC3	PASS
N5	15	15	DFT-QPSK	L	Inner_Full	23.66	PC3	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	22.64	PC3	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Right	22.64	PC3	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	21.63	PC3	PASS
N5	15	15	DFT-16QAM	L	Inner_Full	22.65	PC3	PASS
N5	15	15	DFT-16QAM	L	Edge_1RB_Left	21.90	PC3	PASS
N5	15	15	DFT-16QAM	L	Edge_1RB_Right	21.90	PC3	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	22.66	PC3	PASS
N5	15	15	DFT-QPSK	M	Inner_Full	23.61	PC3	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Left	22.55	PC3	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Right	22.63	PC3	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	21.72	PC3	PASS
N5	15	15	DFT-16QAM	M	Inner_Full	22.56	PC3	PASS
N5	15	15	DFT-16QAM	M	Edge_1RB_Left	21.80	PC3	PASS
N5	15	15	DFT-16QAM	M	Edge_1RB_Right	22.00	PC3	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	22.72	PC3	PASS
N5	15	15	DFT-QPSK	H	Inner_Full	23.80	PC3	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Left	22.63	PC3	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	22.58	PC3	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	21.78	PC3	PASS
N5	15	15	DFT-16QAM	H	Inner_Full	22.79	PC3	PASS
N5	15	15	DFT-16QAM	H	Edge_1RB_Left	21.80	PC3	PASS
N5	15	15	DFT-16QAM	H	Edge_1RB_Right	21.97	PC3	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	22.71	PC3	PASS
N5	15	20	DFT-QPSK	L	Inner_Full	23.74	PC3	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	22.65	PC3	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Right	22.67	PC3	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	21.70	PC3	PASS

N5	15	20	DFT-16QAM	L	Inner_Full	22.70	PC3	PASS
N5	15	20	DFT-16QAM	L	Edge_1RB_Left	21.99	PC3	PASS
N5	15	20	DFT-16QAM	L	Edge_1RB_Right	22.01	PC3	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	22.66	PC3	PASS
N5	15	20	DFT-QPSK	M	Inner_Full	23.68	PC3	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	22.55	PC3	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Right	22.52	PC3	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	21.64	PC3	PASS
N5	15	20	DFT-16QAM	M	Inner_Full	22.67	PC3	PASS
N5	15	20	DFT-16QAM	M	Edge_1RB_Left	21.89	PC3	PASS
N5	15	20	DFT-16QAM	M	Edge_1RB_Right	21.86	PC3	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	22.69	PC3	PASS
N5	15	20	DFT-QPSK	H	Inner_Full	23.70	PC3	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	22.54	PC3	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	22.52	PC3	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	21.69	PC3	PASS
N5	15	20	DFT-16QAM	H	Inner_Full	22.69	PC3	PASS
N5	15	20	DFT-16QAM	H	Edge_1RB_Left	21.87	PC3	PASS
N5	15	20	DFT-16QAM	H	Edge_1RB_Right	21.86	PC3	PASS

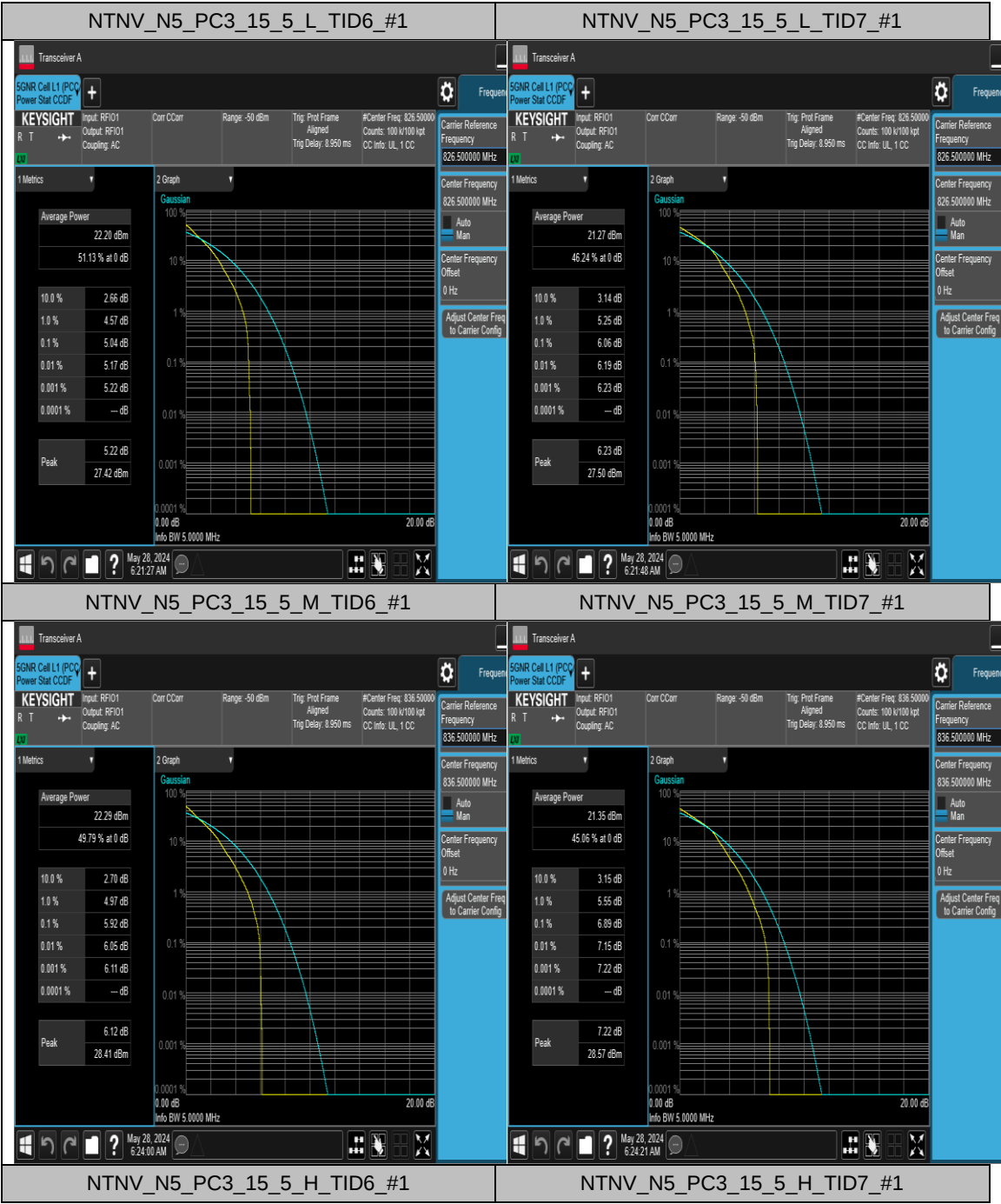
Appendix B: Peak-to-Average Ratio for SA

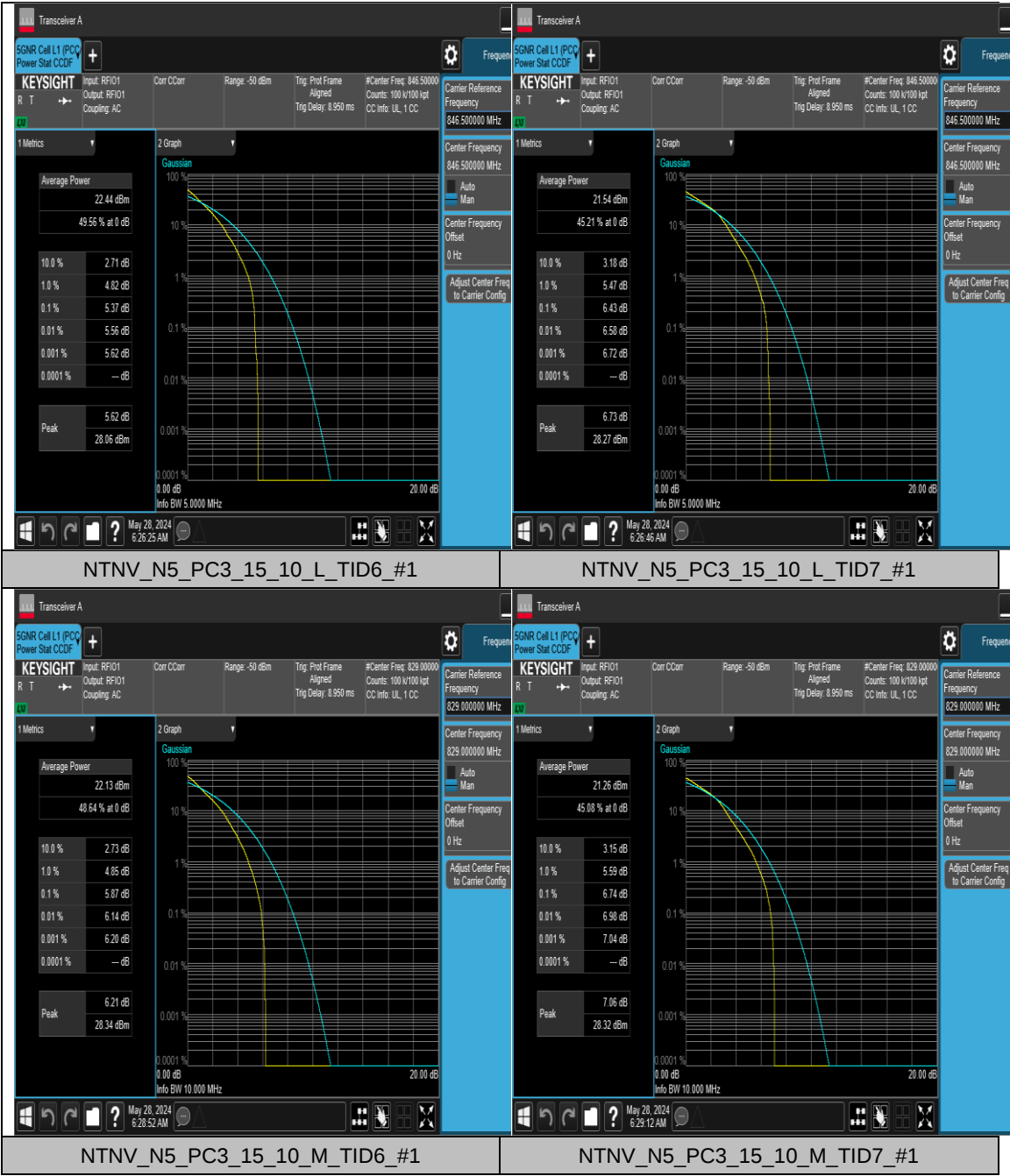
Peak-to-Average Ratio(CCDF)

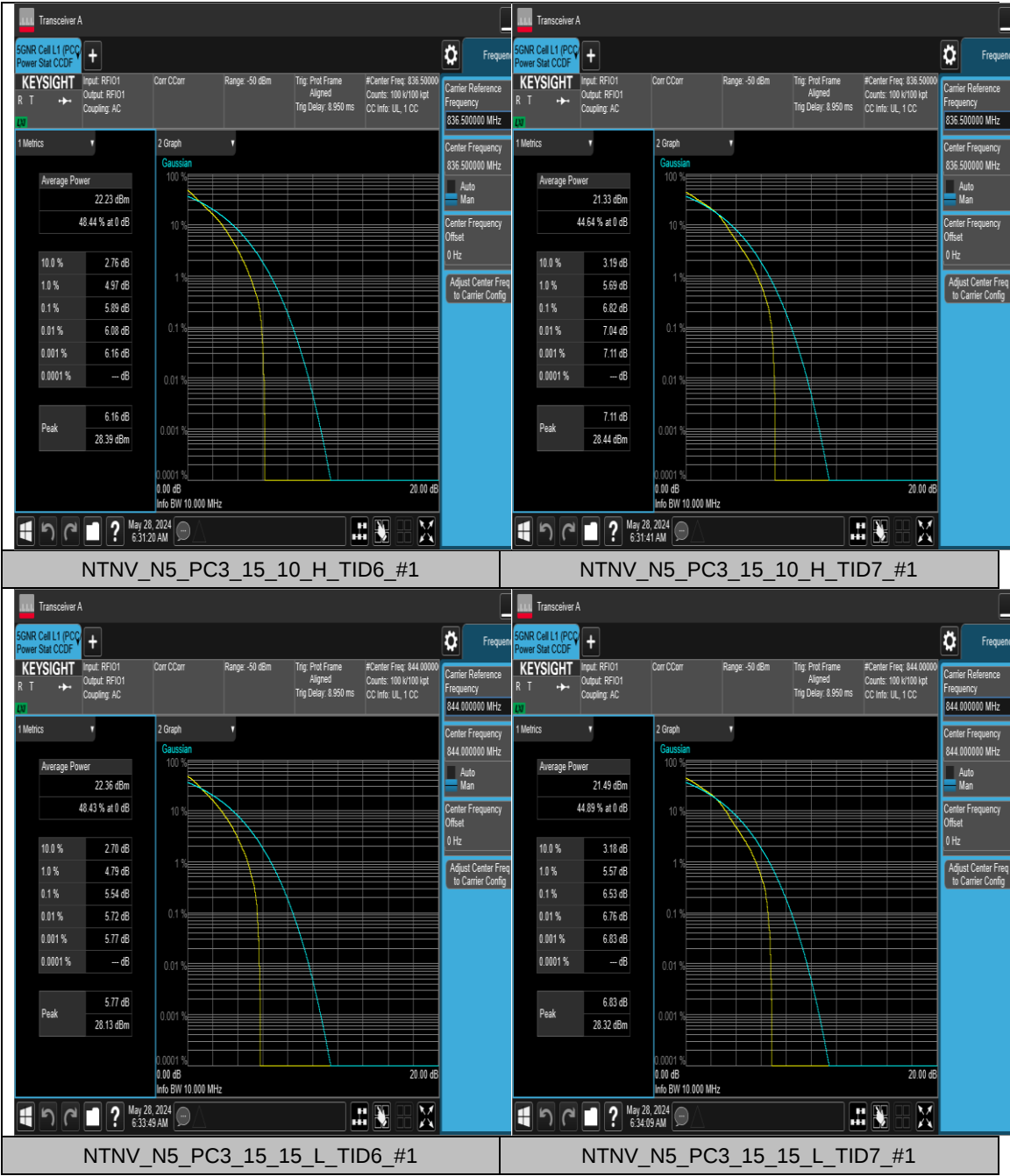
Test Result

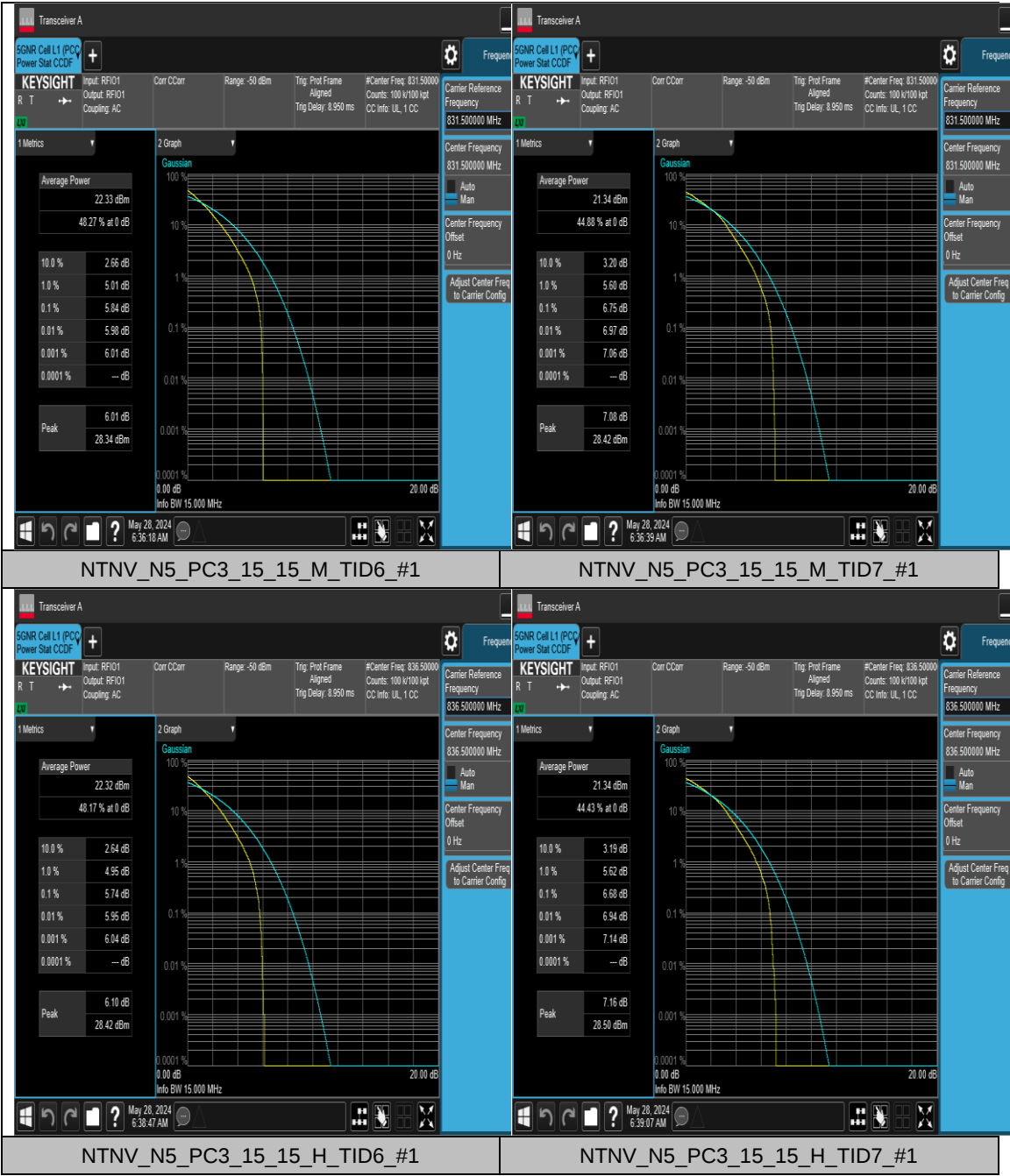
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	5.04	≤13	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	6.06	≤13	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	5.92	≤13	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	6.89	≤13	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	5.37	≤13	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	6.43	≤13	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	5.87	≤13	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	6.74	≤13	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	5.89	≤13	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	6.82	≤13	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	5.54	≤13	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	6.53	≤13	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	5.84	≤13	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	6.75	≤13	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	5.74	≤13	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	6.68	≤13	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	5.58	≤13	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	6.53	≤13	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	5.61	≤13	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	6.51	≤13	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	5.53	≤13	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	6.45	≤13	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	5.41	≤13	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	6.38	≤13	PASS

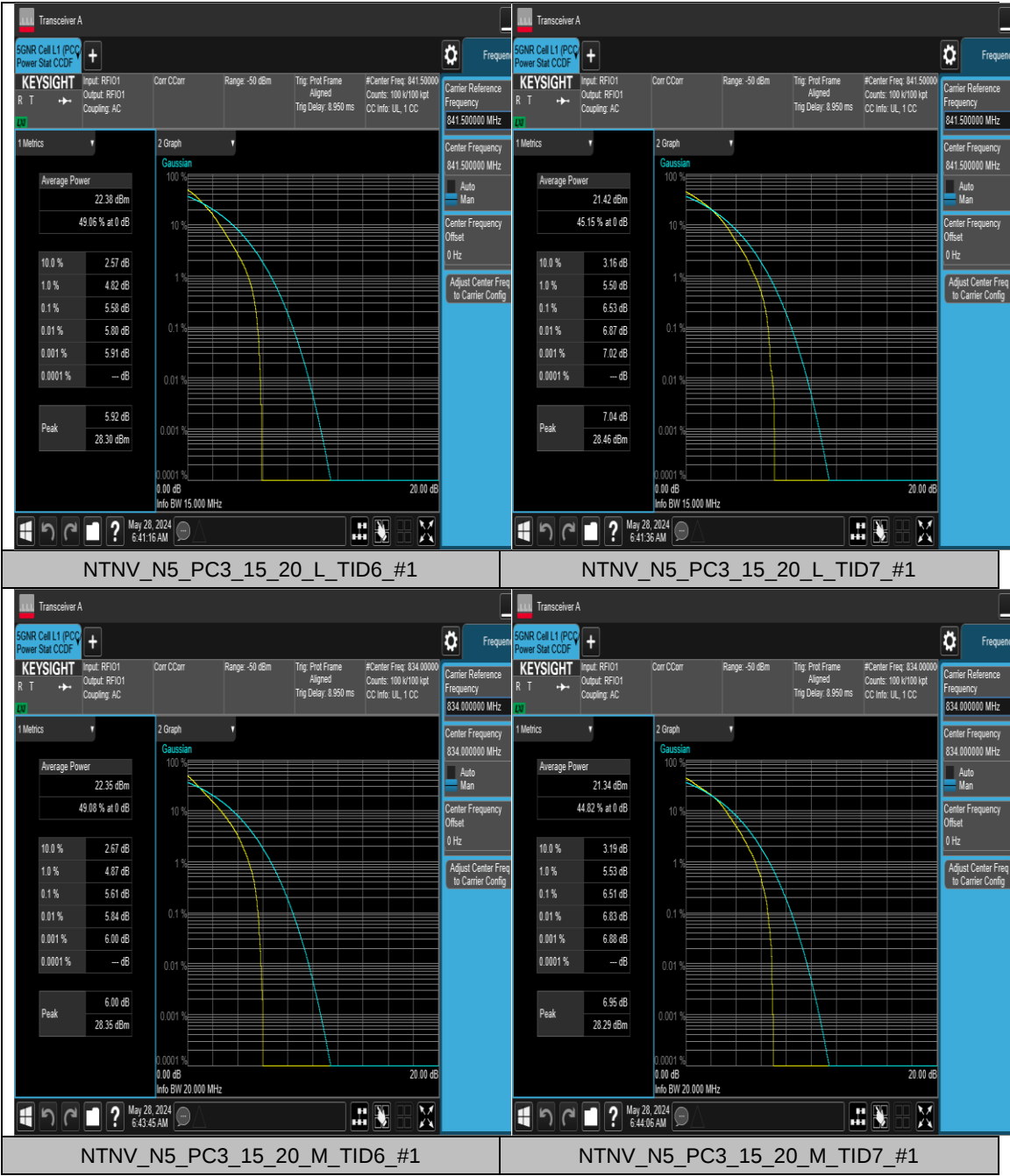
Test Graphs

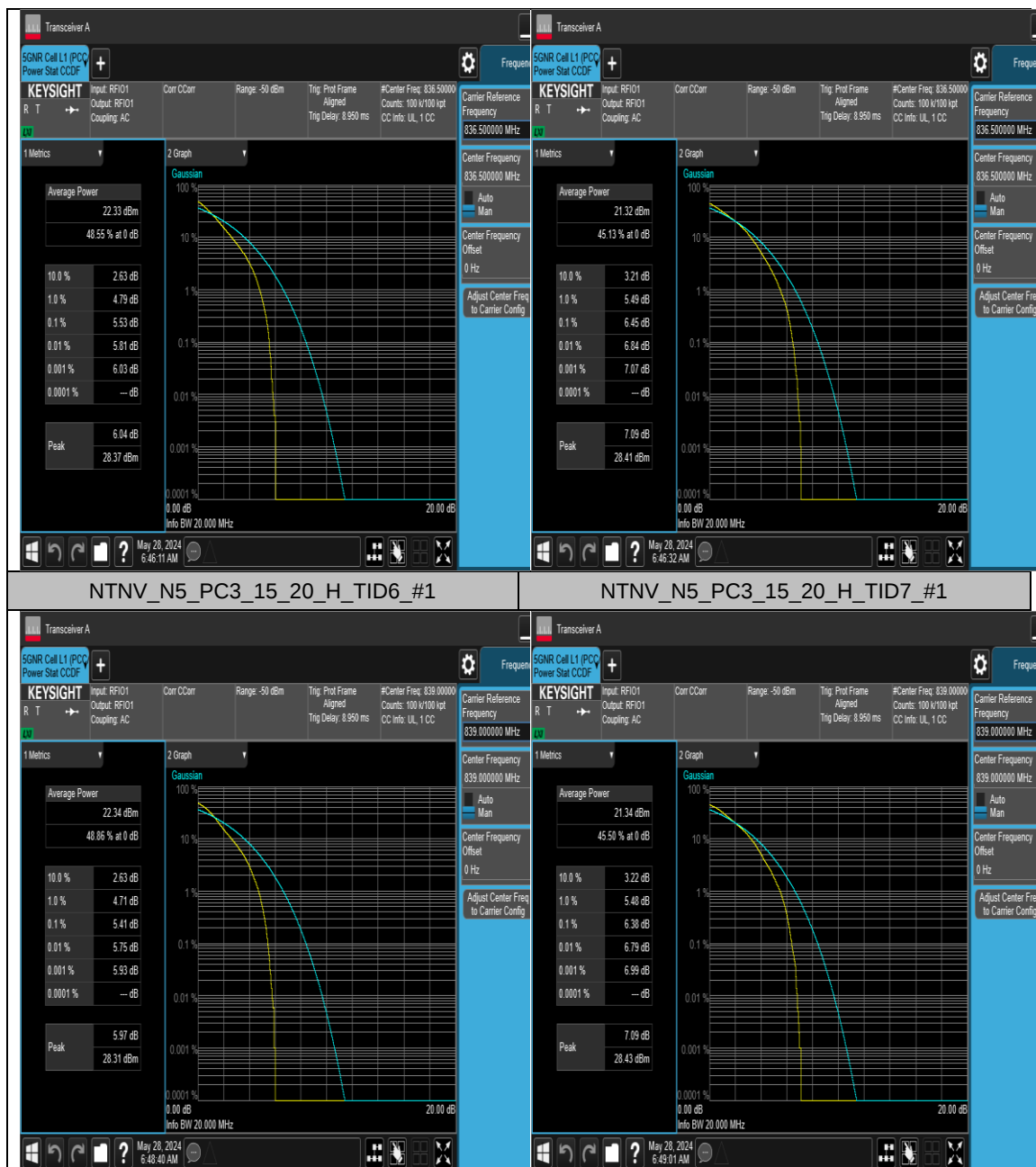










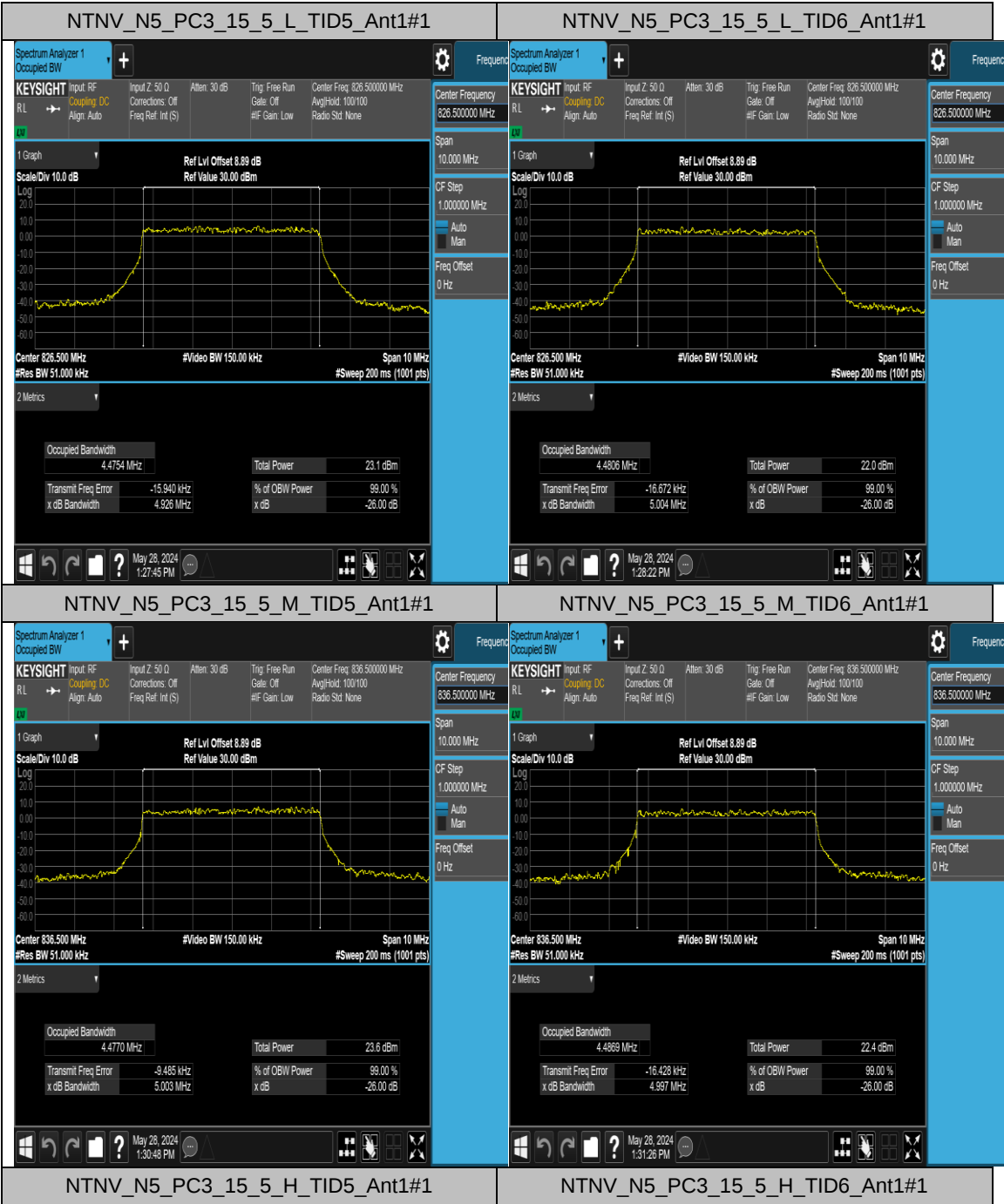


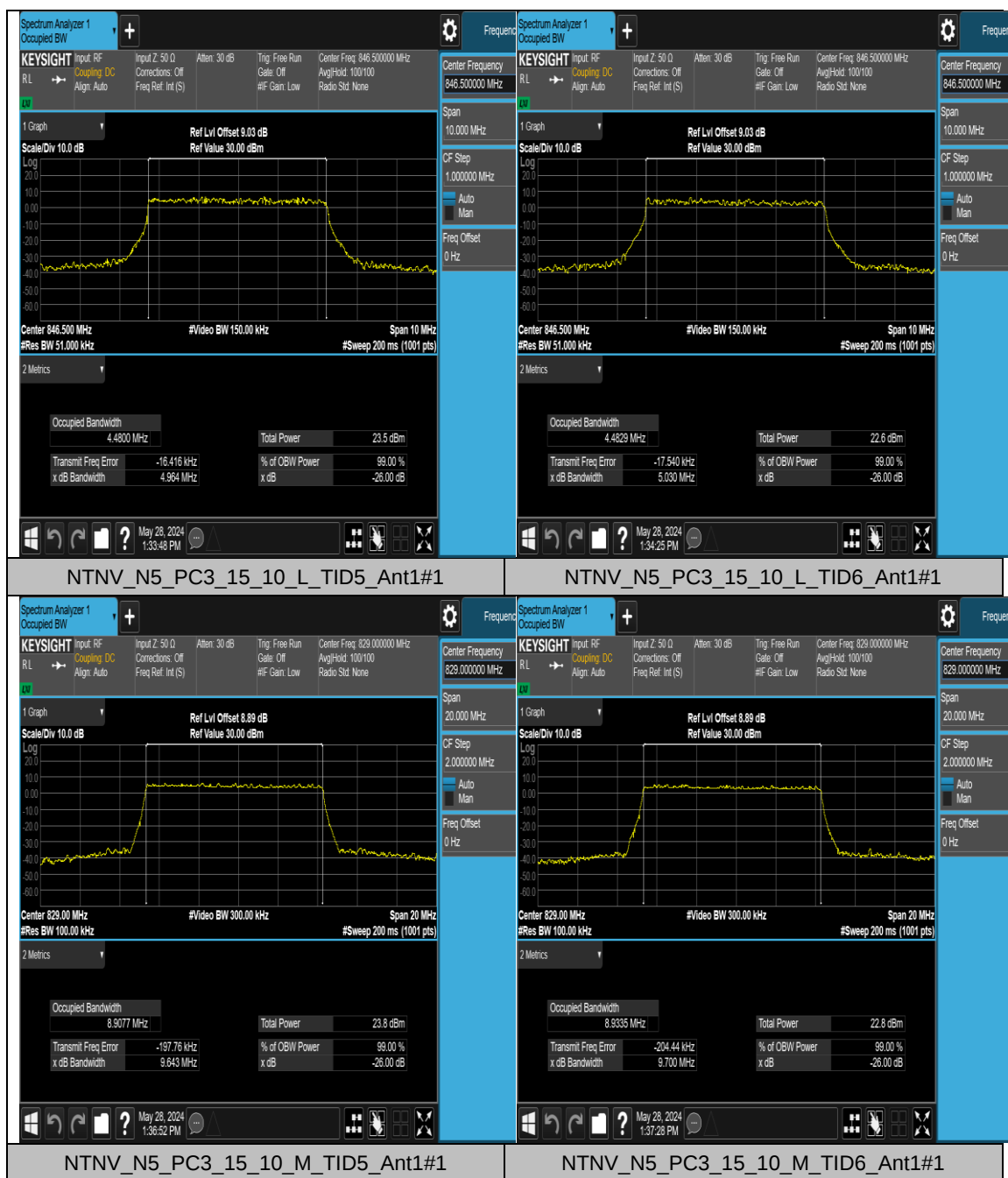
Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

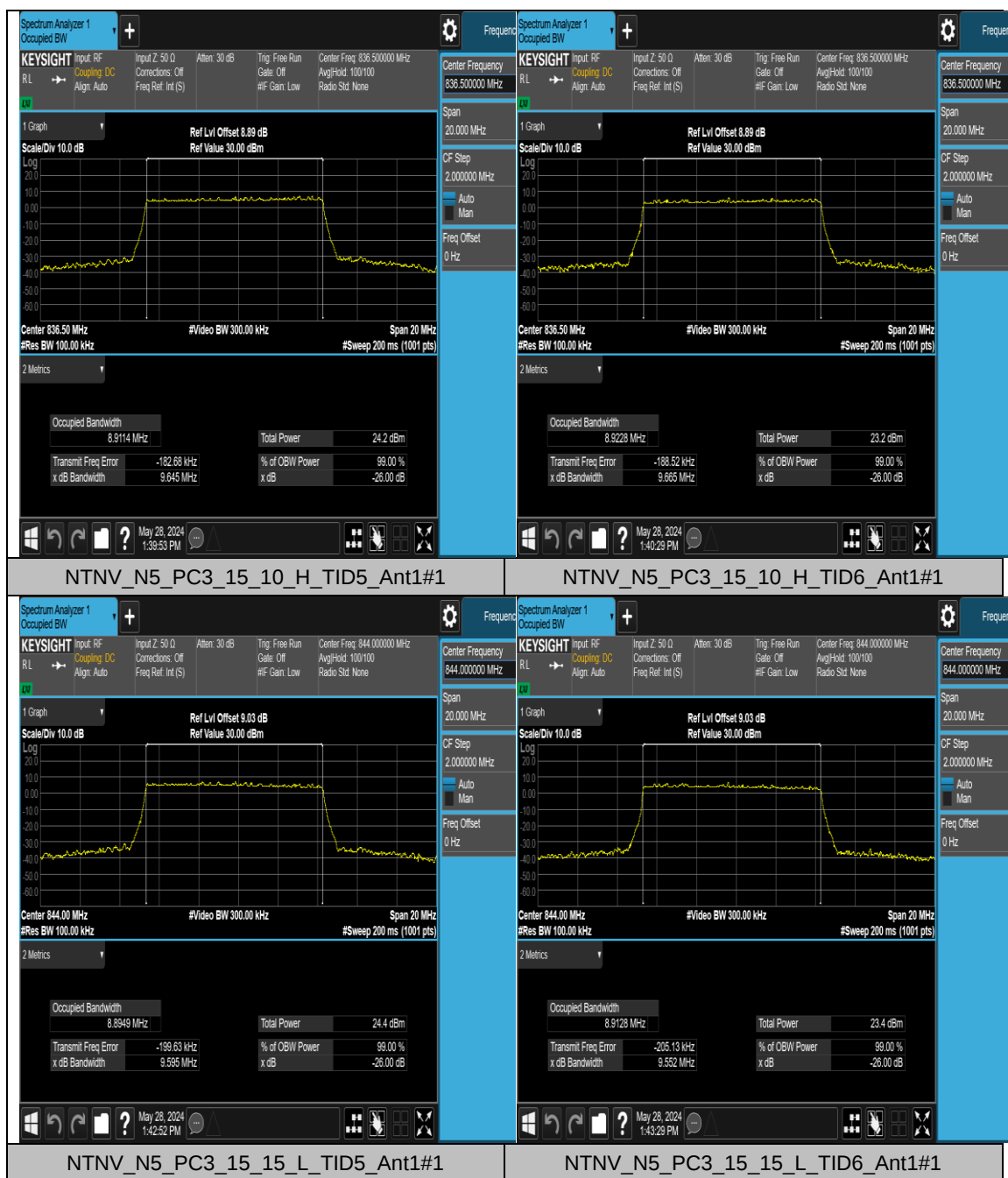
Test Result

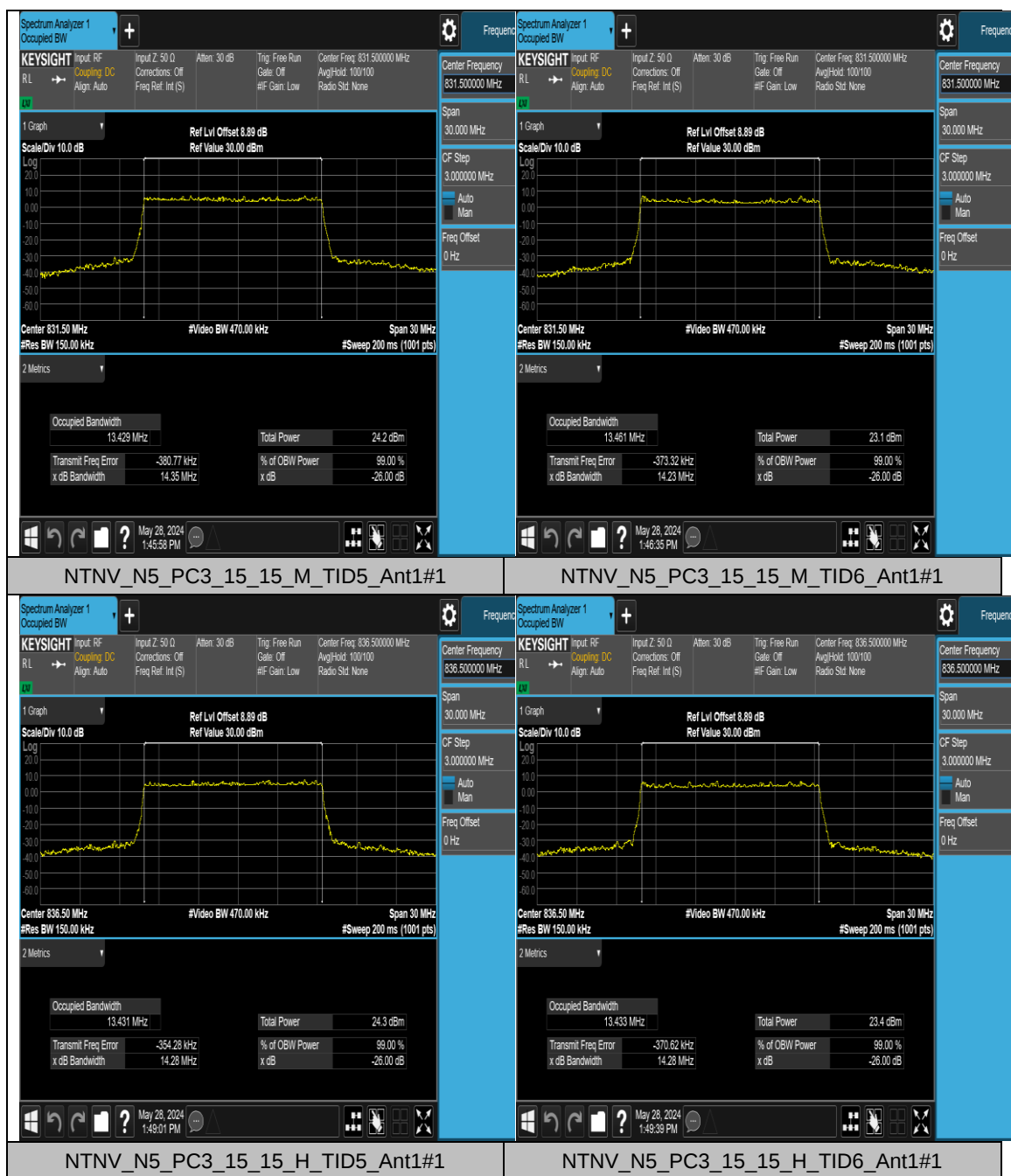
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	4.4754	4.926	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	4.4806	5.004	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	4.4770	5.003	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.4869	4.997	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	4.4800	4.964	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	4.4829	5.030	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	8.9077	9.643	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	8.9335	9.700	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.9114	9.645	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.9228	9.665	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	8.8949	9.595	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	8.9128	9.552	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	13.429	14.35	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	13.461	14.23	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.431	14.28	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.433	14.28	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	13.395	14.24	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	13.412	14.16	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	17.855	18.81	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	17.896	18.81	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.854	18.91	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.860	18.93	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	17.819	18.81	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	17.833	18.78	PASS

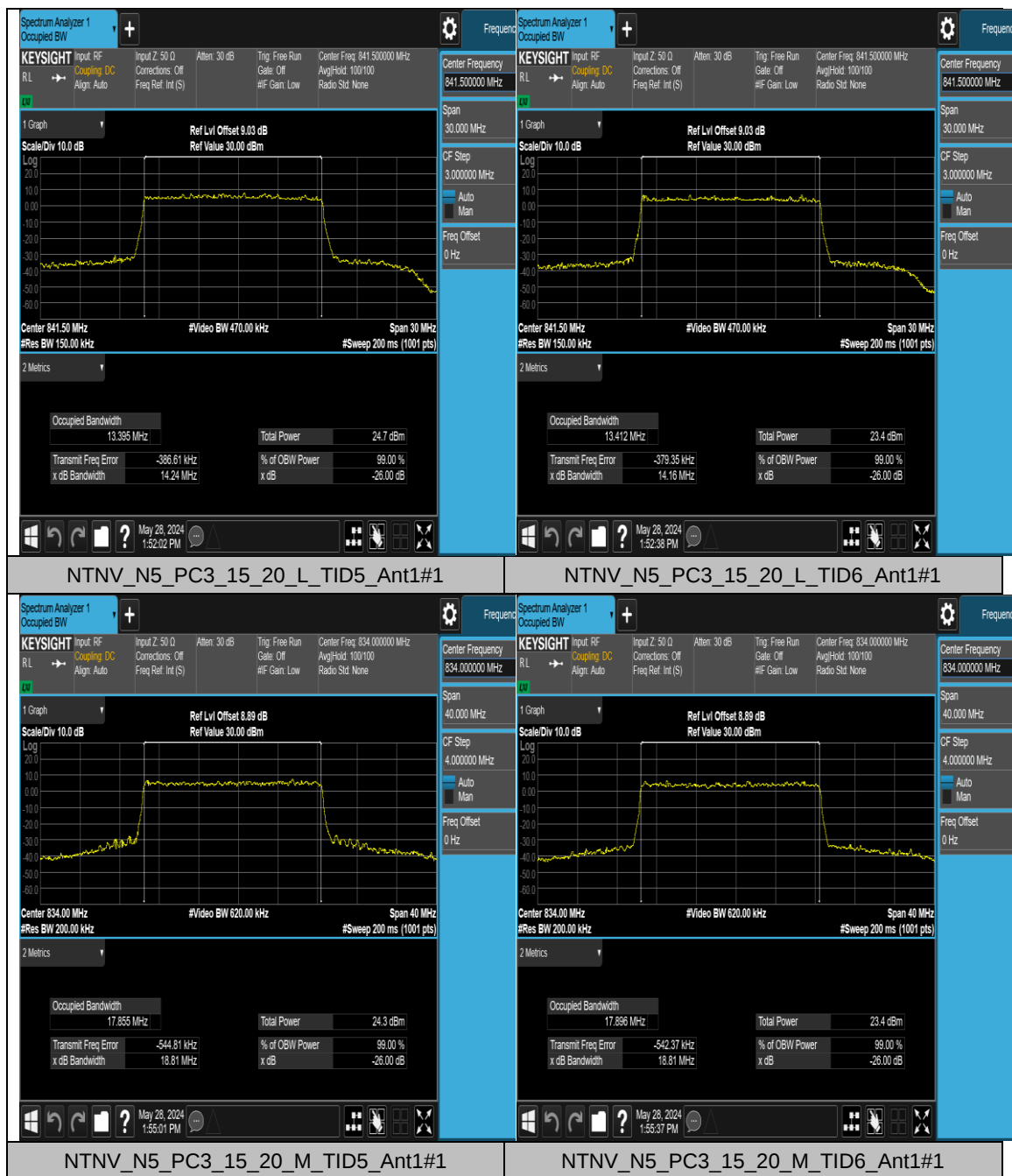
Test Graphs













Appendix D: Band Edge for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	PASS
N5	15	5	DFT-16QAM	L	Edge_1RB_Left	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	PASS
N5	15	5	DFT-16QAM	H	Edge_1RB_Right	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	PASS
N5	15	10	DFT-16QAM	L	Edge_1RB_Left	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	PASS
N5	15	10	DFT-16QAM	H	Edge_1RB_Right	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	PASS
N5	15	15	DFT-16QAM	L	Edge_1RB_Left	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	PASS
N5	15	15	DFT-16QAM	H	Edge_1RB_Right	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	PASS
N5	15	20	DFT-16QAM	L	Edge_1RB_Left	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	PASS
N5	15	20	DFT-16QAM	H	Edge_1RB_Right	PASS

Test Graphs

