

Appendix for N2

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
N2	15	5	DFT-QPSK	L	Edge_1RB_Left	21.65	PC3	PASS
N2	15	5	DFT-QPSK	L	Edge_1RB_Right	21.45	PC3	PASS
N2	15	5	DFT-QPSK	L	Outer_Full	21.66	PC3	PASS
N2	15	5	DFT-QPSK	L	Inner_Full	22.36	PC3	PASS
N2	15	5	DFT-16QAM	L	Edge_1RB_Left	20.95	PC3	PASS
N2	15	5	DFT-16QAM	L	Edge_1RB_Right	20.79	PC3	PASS
N2	15	5	DFT-16QAM	L	Outer_Full	20.71	PC3	PASS
N2	15	5	DFT-16QAM	L	Inner_Full	21.57	PC3	PASS
N2	15	5	DFT-64QAM	L	Edge_1RB_Left	20.36	PC3	PASS
N2	15	5	DFT-64QAM	L	Edge_1RB_Right	20.16	PC3	PASS
N2	15	5	DFT-64QAM	L	Outer_Full	20.10	PC3	PASS
N2	15	5	DFT-64QAM	L	Inner_Full	20.12	PC3	PASS
N2	15	5	DFT-256QAM	L	Edge_1RB_Left	18.24	PC3	PASS
N2	15	5	DFT-256QAM	L	Edge_1RB_Right	18.05	PC3	PASS
N2	15	5	DFT-256QAM	L	Outer_Full	18.05	PC3	PASS
N2	15	5	DFT-256QAM	L	Inner_Full	18.05	PC3	PASS
N2	15	5	CP-QPSK	L	Edge_1RB_Left	19.66	PC3	PASS
N2	15	5	CP-QPSK	L	Edge_1RB_Right	19.49	PC3	PASS
N2	15	5	CP-QPSK	L	Outer_Full	19.61	PC3	PASS
N2	15	5	CP-QPSK	L	Inner_Full	21.05	PC3	PASS
N2	15	5	CP-16QAM	L	Edge_1RB_Left	19.61	PC3	PASS
N2	15	5	CP-16QAM	L	Edge_1RB_Right	19.41	PC3	PASS
N2	15	5	CP-16QAM	L	Outer_Full	19.62	PC3	PASS
N2	15	5	CP-16QAM	L	Inner_Full	20.74	PC3	PASS
N2	15	5	CP-64QAM	L	Edge_1RB_Left	19.55	PC3	PASS
N2	15	5	CP-64QAM	L	Edge_1RB_Right	19.43	PC3	PASS
N2	15	5	CP-64QAM	L	Outer_Full	19.19	PC3	PASS
N2	15	5	CP-64QAM	L	Inner_Full	19.06	PC3	PASS
N2	15	5	CP-256QAM	L	Edge_1RB_Left	16.60	PC3	PASS
N2	15	5	CP-256QAM	L	Edge_1RB_Right	16.32	PC3	PASS
N2	15	5	CP-256QAM	L	Outer_Full	16.11	PC3	PASS
N2	15	5	CP-256QAM	L	Inner_Full	16.03	PC3	PASS
N2	15	5	DFT-QPSK	M	Edge_1RB_Left	21.42	PC3	PASS
N2	15	5	DFT-QPSK	M	Edge_1RB_Right	21.31	PC3	PASS
N2	15	5	DFT-QPSK	M	Outer_Full	21.42	PC3	PASS

N2	15	5	DFT-QPSK	M	Inner_Full	22.18	PC3	PASS
N2	15	5	DFT-16QAM	M	Edge_1RB_Left	20.62	PC3	PASS
N2	15	5	DFT-16QAM	M	Edge_1RB_Right	20.54	PC3	PASS
N2	15	5	DFT-16QAM	M	Outer_Full	20.38	PC3	PASS
N2	15	5	DFT-16QAM	M	Inner_Full	21.34	PC3	PASS
N2	15	5	DFT-64QAM	M	Edge_1RB_Left	19.74	PC3	PASS
N2	15	5	DFT-64QAM	M	Edge_1RB_Right	19.65	PC3	PASS
N2	15	5	DFT-64QAM	M	Outer_Full	19.76	PC3	PASS
N2	15	5	DFT-64QAM	M	Inner_Full	19.76	PC3	PASS
N2	15	5	DFT-256QAM	M	Edge_1RB_Left	17.79	PC3	PASS
N2	15	5	DFT-256QAM	M	Edge_1RB_Right	17.59	PC3	PASS
N2	15	5	DFT-256QAM	M	Outer_Full	17.65	PC3	PASS
N2	15	5	DFT-256QAM	M	Inner_Full	17.65	PC3	PASS
N2	15	5	CP-QPSK	M	Edge_1RB_Left	19.21	PC3	PASS
N2	15	5	CP-QPSK	M	Edge_1RB_Right	19.07	PC3	PASS
N2	15	5	CP-QPSK	M	Outer_Full	19.21	PC3	PASS
N2	15	5	CP-QPSK	M	Inner_Full	20.68	PC3	PASS
N2	15	5	CP-16QAM	M	Edge_1RB_Left	19.22	PC3	PASS
N2	15	5	CP-16QAM	M	Edge_1RB_Right	18.97	PC3	PASS
N2	15	5	CP-16QAM	M	Outer_Full	19.25	PC3	PASS
N2	15	5	CP-16QAM	M	Inner_Full	20.25	PC3	PASS
N2	15	5	CP-64QAM	M	Edge_1RB_Left	18.85	PC3	PASS
N2	15	5	CP-64QAM	M	Edge_1RB_Right	18.74	PC3	PASS
N2	15	5	CP-64QAM	M	Outer_Full	18.80	PC3	PASS
N2	15	5	CP-64QAM	M	Inner_Full	18.66	PC3	PASS
N2	15	5	CP-256QAM	M	Edge_1RB_Left	16.22	PC3	PASS
N2	15	5	CP-256QAM	M	Edge_1RB_Right	15.87	PC3	PASS
N2	15	5	CP-256QAM	M	Outer_Full	15.73	PC3	PASS
N2	15	5	CP-256QAM	M	Inner_Full	15.62	PC3	PASS
N2	15	5	DFT-QPSK	H	Outer_Full	20.65	PC3	PASS
N2	15	5	DFT-QPSK	H	Inner_Full	21.48	PC3	PASS
N2	15	5	DFT-QPSK	H	Edge_1RB_Left	20.63	PC3	PASS
N2	15	5	DFT-QPSK	H	Edge_1RB_Right	20.49	PC3	PASS
N2	15	5	DFT-16QAM	H	Outer_Full	19.71	PC3	PASS
N2	15	5	DFT-16QAM	H	Inner_Full	20.61	PC3	PASS
N2	15	5	DFT-16QAM	H	Edge_1RB_Left	20.04	PC3	PASS
N2	15	5	DFT-16QAM	H	Edge_1RB_Right	19.83	PC3	PASS
N2	15	10	DFT-QPSK	L	Outer_Full	21.65	PC3	PASS
N2	15	10	DFT-QPSK	L	Inner_Full	22.42	PC3	PASS
N2	15	10	DFT-QPSK	L	Edge_1RB_Left	21.52	PC3	PASS
N2	15	10	DFT-QPSK	L	Edge_1RB_Right	21.26	PC3	PASS
N2	15	10	DFT-16QAM	L	Outer_Full	20.66	PC3	PASS

N2	15	10	DFT-16QAM	L	Inner_Full	21.69	PC3	PASS
N2	15	10	DFT-16QAM	L	Edge_1RB_Left	20.93	PC3	PASS
N2	15	10	DFT-16QAM	L	Edge_1RB_Right	20.71	PC3	PASS
N2	15	10	DFT-QPSK	M	Outer_Full	21.38	PC3	PASS
N2	15	10	DFT-QPSK	M	Inner_Full	22.14	PC3	PASS
N2	15	10	DFT-QPSK	M	Edge_1RB_Left	21.23	PC3	PASS
N2	15	10	DFT-QPSK	M	Edge_1RB_Right	21.10	PC3	PASS
N2	15	10	DFT-16QAM	M	Outer_Full	20.39	PC3	PASS
N2	15	10	DFT-16QAM	M	Inner_Full	21.40	PC3	PASS
N2	15	10	DFT-16QAM	M	Edge_1RB_Left	20.67	PC3	PASS
N2	15	10	DFT-16QAM	M	Edge_1RB_Right	20.35	PC3	PASS
N2	15	10	DFT-QPSK	H	Outer_Full	20.76	PC3	PASS
N2	15	10	DFT-QPSK	H	Inner_Full	21.52	PC3	PASS
N2	15	10	DFT-QPSK	H	Edge_1RB_Left	20.89	PC3	PASS
N2	15	10	DFT-QPSK	H	Edge_1RB_Right	20.46	PC3	PASS
N2	15	10	DFT-16QAM	H	Outer_Full	19.70	PC3	PASS
N2	15	10	DFT-16QAM	H	Inner_Full	20.79	PC3	PASS
N2	15	10	DFT-16QAM	H	Edge_1RB_Left	20.09	PC3	PASS
N2	15	10	DFT-16QAM	H	Edge_1RB_Right	19.85	PC3	PASS
N2	15	15	DFT-QPSK	L	Outer_Full	21.68	PC3	PASS
N2	15	15	DFT-QPSK	L	Inner_Full	22.49	PC3	PASS
N2	15	15	DFT-QPSK	L	Edge_1RB_Left	21.62	PC3	PASS
N2	15	15	DFT-QPSK	L	Edge_1RB_Right	21.40	PC3	PASS
N2	15	15	DFT-16QAM	L	Outer_Full	20.60	PC3	PASS
N2	15	15	DFT-16QAM	L	Inner_Full	21.73	PC3	PASS
N2	15	15	DFT-16QAM	L	Edge_1RB_Left	21.10	PC3	PASS
N2	15	15	DFT-16QAM	L	Edge_1RB_Right	20.78	PC3	PASS
N2	15	15	DFT-QPSK	M	Outer_Full	21.40	PC3	PASS
N2	15	15	DFT-QPSK	M	Inner_Full	22.21	PC3	PASS
N2	15	15	DFT-QPSK	M	Edge_1RB_Left	21.42	PC3	PASS
N2	15	15	DFT-QPSK	M	Edge_1RB_Right	21.23	PC3	PASS
N2	15	15	DFT-16QAM	M	Outer_Full	20.46	PC3	PASS
N2	15	15	DFT-16QAM	M	Inner_Full	21.47	PC3	PASS
N2	15	15	DFT-16QAM	M	Edge_1RB_Left	20.70	PC3	PASS
N2	15	15	DFT-16QAM	M	Edge_1RB_Right	20.63	PC3	PASS
N2	15	15	DFT-QPSK	H	Outer_Full	20.82	PC3	PASS
N2	15	15	DFT-QPSK	H	Inner_Full	21.57	PC3	PASS
N2	15	15	DFT-QPSK	H	Edge_1RB_Left	20.88	PC3	PASS
N2	15	15	DFT-QPSK	H	Edge_1RB_Right	20.59	PC3	PASS
N2	15	15	DFT-16QAM	H	Outer_Full	19.76	PC3	PASS
N2	15	15	DFT-16QAM	H	Inner_Full	20.75	PC3	PASS
N2	15	15	DFT-16QAM	H	Edge_1RB_Left	20.05	PC3	PASS

N2	15	15	DFT-16QAM	H	Edge_1RB_Right	19.84	PC3	PASS
N2	15	20	DFT-QPSK	L	Outer_Full	21.71	PC3	PASS
N2	15	20	DFT-QPSK	L	Inner_Full	22.47	PC3	PASS
N2	15	20	DFT-QPSK	L	Edge_1RB_Left	21.76	PC3	PASS
N2	15	20	DFT-QPSK	L	Edge_1RB_Right	21.43	PC3	PASS
N2	15	20	DFT-16QAM	L	Outer_Full	20.64	PC3	PASS
N2	15	20	DFT-16QAM	L	Inner_Full	21.72	PC3	PASS
N2	15	20	DFT-16QAM	L	Edge_1RB_Left	20.87	PC3	PASS
N2	15	20	DFT-16QAM	L	Edge_1RB_Right	20.84	PC3	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	21.45	PC3	PASS
N2	15	20	DFT-QPSK	M	Inner_Full	22.22	PC3	PASS
N2	15	20	DFT-QPSK	M	Edge_1RB_Left	21.45	PC3	PASS
N2	15	20	DFT-QPSK	M	Edge_1RB_Right	21.13	PC3	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	20.51	PC3	PASS
N2	15	20	DFT-16QAM	M	Inner_Full	21.48	PC3	PASS
N2	15	20	DFT-16QAM	M	Edge_1RB_Left	20.69	PC3	PASS
N2	15	20	DFT-16QAM	M	Edge_1RB_Right	20.25	PC3	PASS
N2	15	20	DFT-QPSK	H	Outer_Full	20.89	PC3	PASS
N2	15	20	DFT-QPSK	H	Inner_Full	21.71	PC3	PASS
N2	15	20	DFT-QPSK	H	Edge_1RB_Left	21.00	PC3	PASS
N2	15	20	DFT-QPSK	H	Edge_1RB_Right	20.60	PC3	PASS
N2	15	20	DFT-16QAM	H	Outer_Full	20.01	PC3	PASS
N2	15	20	DFT-16QAM	H	Inner_Full	20.95	PC3	PASS
N2	15	20	DFT-16QAM	H	Edge_1RB_Left	20.39	PC3	PASS
N2	15	20	DFT-16QAM	H	Edge_1RB_Right	19.98	PC3	PASS

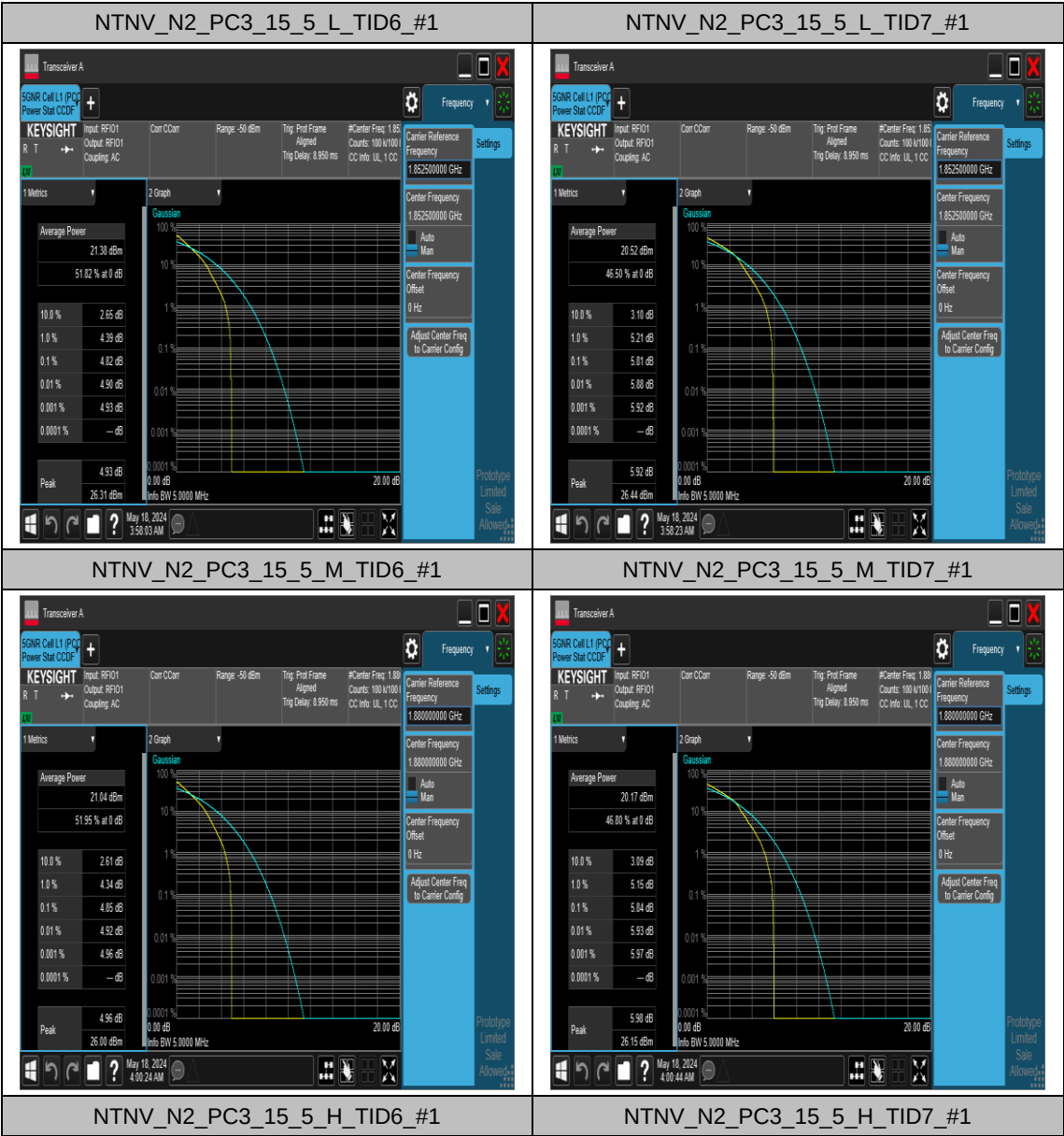
Appendix B: Peak-to-Average Ratio for SA

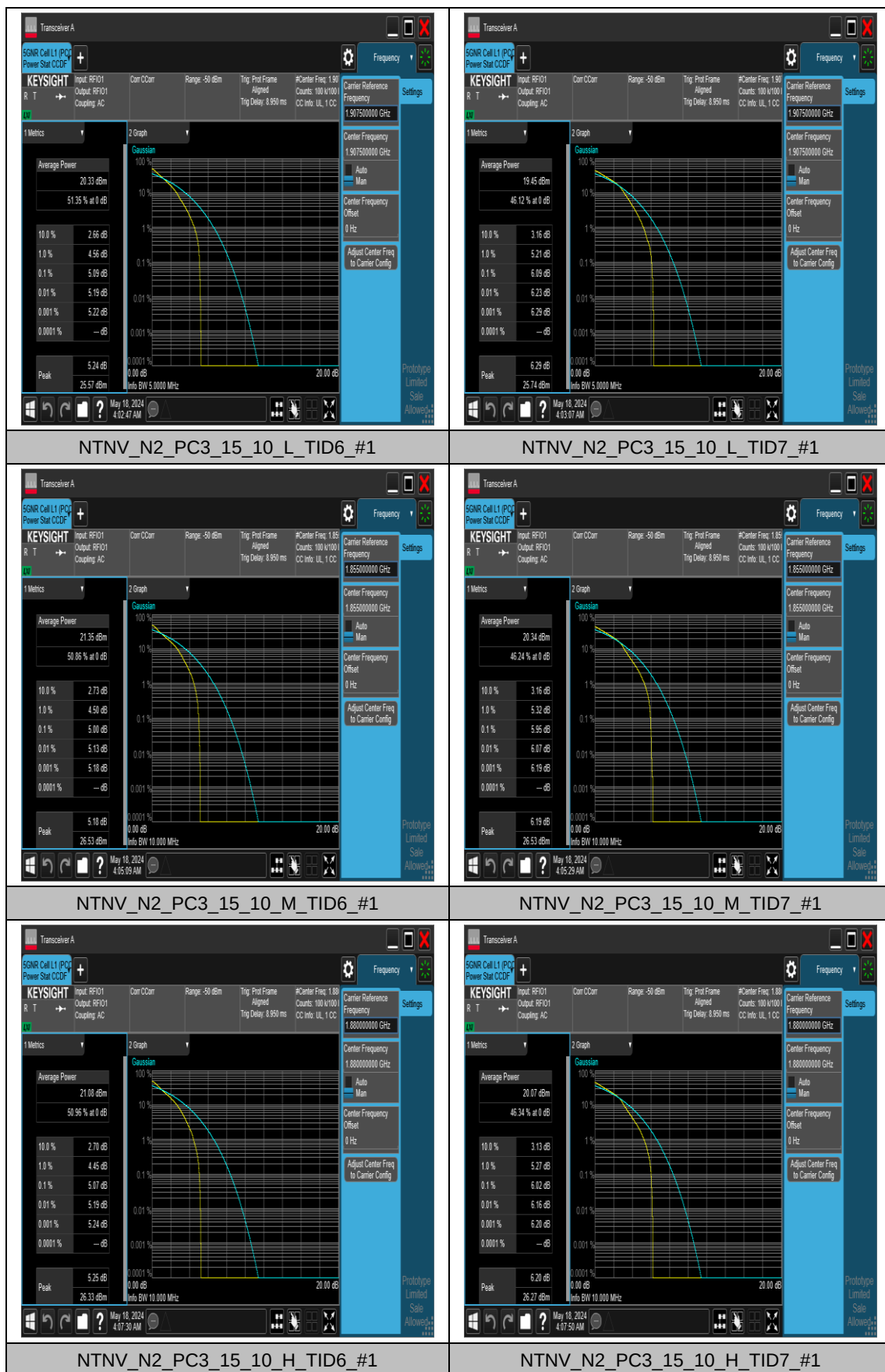
Peak-to-Average Ratio(CCDF)

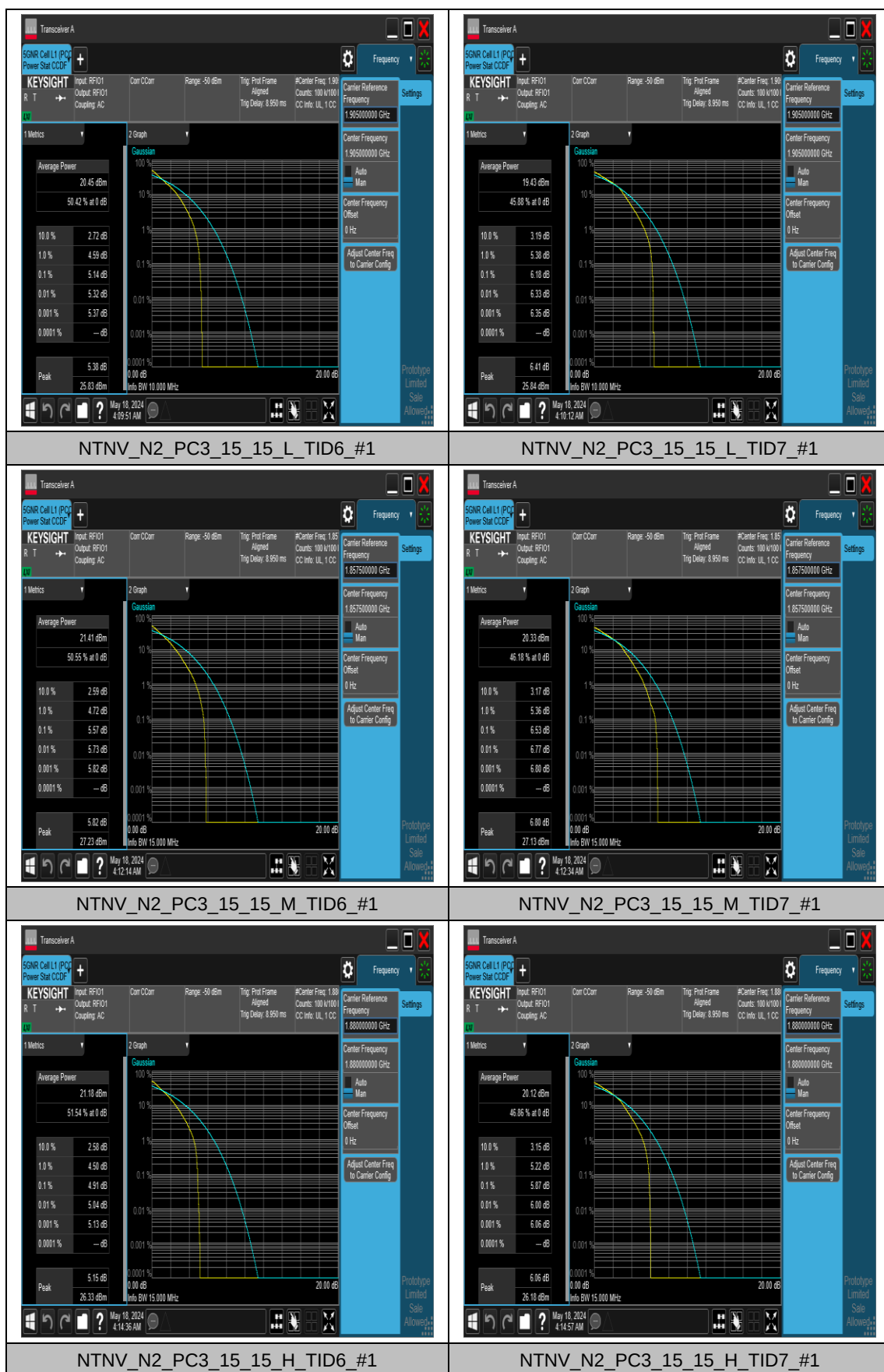
Test Result

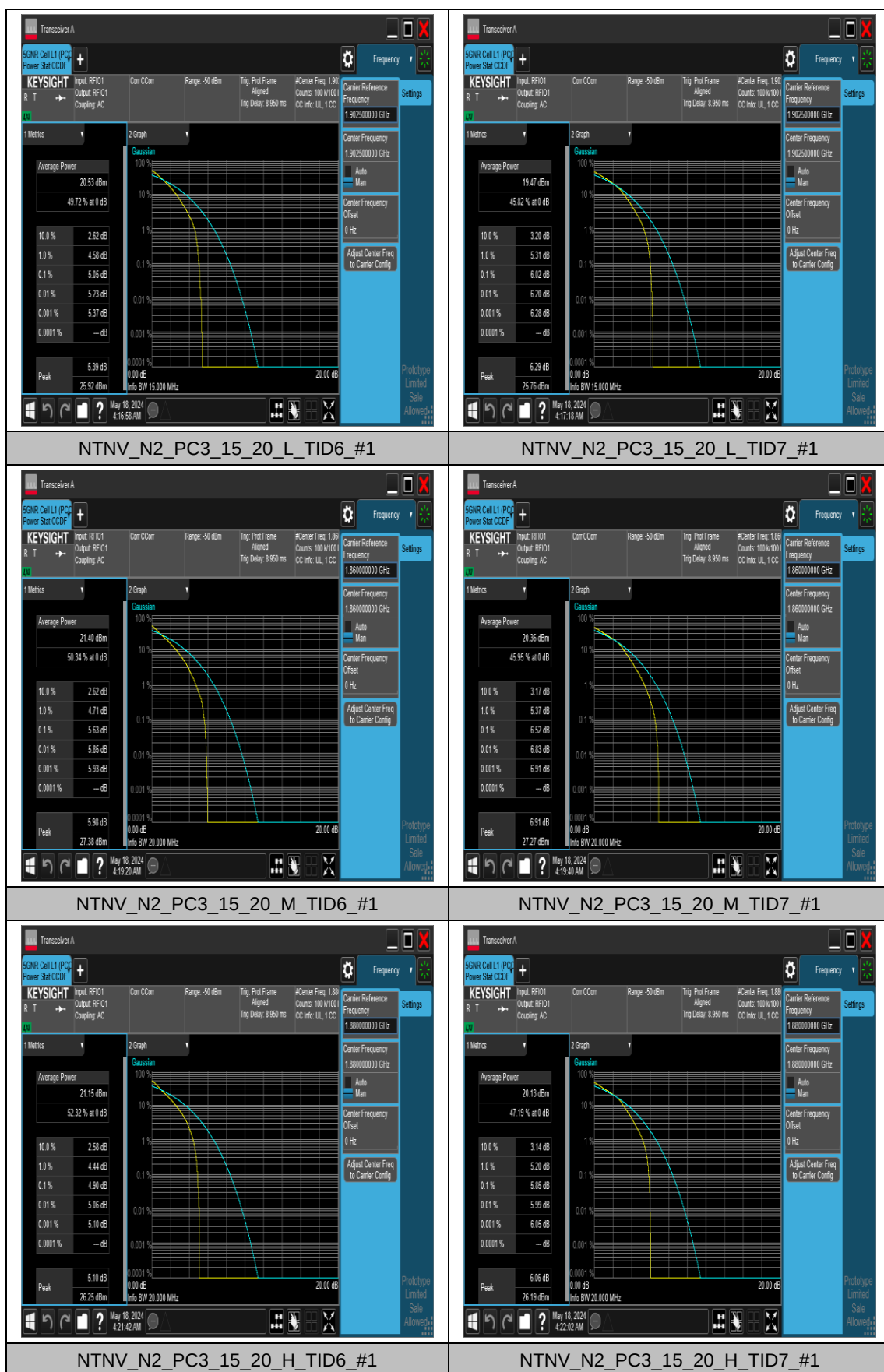
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N2	15	5	DFT-QPSK	L	Outer_Full	4.82	≤13	PASS
N2	15	5	DFT-16QAM	L	Outer_Full	5.81	≤13	PASS
N2	15	5	DFT-QPSK	M	Outer_Full	4.85	≤13	PASS
N2	15	5	DFT-16QAM	M	Outer_Full	5.84	≤13	PASS
N2	15	5	DFT-QPSK	H	Outer_Full	5.09	≤13	PASS
N2	15	5	DFT-16QAM	H	Outer_Full	6.09	≤13	PASS
N2	15	10	DFT-QPSK	L	Outer_Full	5.00	≤13	PASS
N2	15	10	DFT-16QAM	L	Outer_Full	5.95	≤13	PASS
N2	15	10	DFT-QPSK	M	Outer_Full	5.07	≤13	PASS
N2	15	10	DFT-16QAM	M	Outer_Full	6.02	≤13	PASS
N2	15	10	DFT-QPSK	H	Outer_Full	5.14	≤13	PASS
N2	15	10	DFT-16QAM	H	Outer_Full	6.18	≤13	PASS
N2	15	15	DFT-QPSK	L	Outer_Full	5.57	≤13	PASS
N2	15	15	DFT-16QAM	L	Outer_Full	6.53	≤13	PASS
N2	15	15	DFT-QPSK	M	Outer_Full	4.91	≤13	PASS
N2	15	15	DFT-16QAM	M	Outer_Full	5.87	≤13	PASS
N2	15	15	DFT-QPSK	H	Outer_Full	5.05	≤13	PASS
N2	15	15	DFT-16QAM	H	Outer_Full	6.02	≤13	PASS
N2	15	20	DFT-QPSK	L	Outer_Full	5.63	≤13	PASS
N2	15	20	DFT-16QAM	L	Outer_Full	6.52	≤13	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	4.90	≤13	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	5.85	≤13	PASS
N2	15	20	DFT-QPSK	H	Outer_Full	5.15	≤13	PASS
N2	15	20	DFT-16QAM	H	Outer_Full	6.06	≤13	PASS

Test Graphs









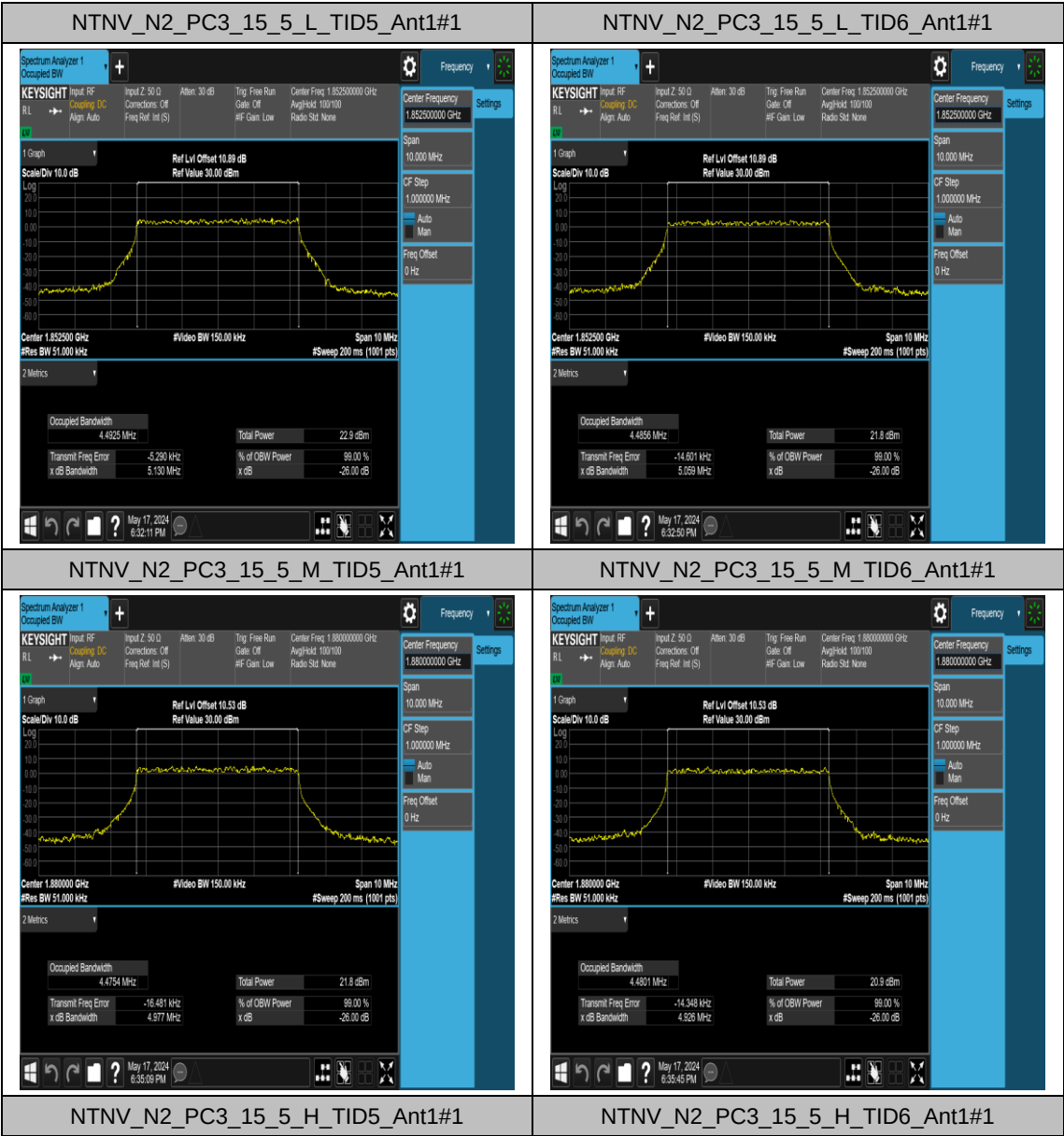


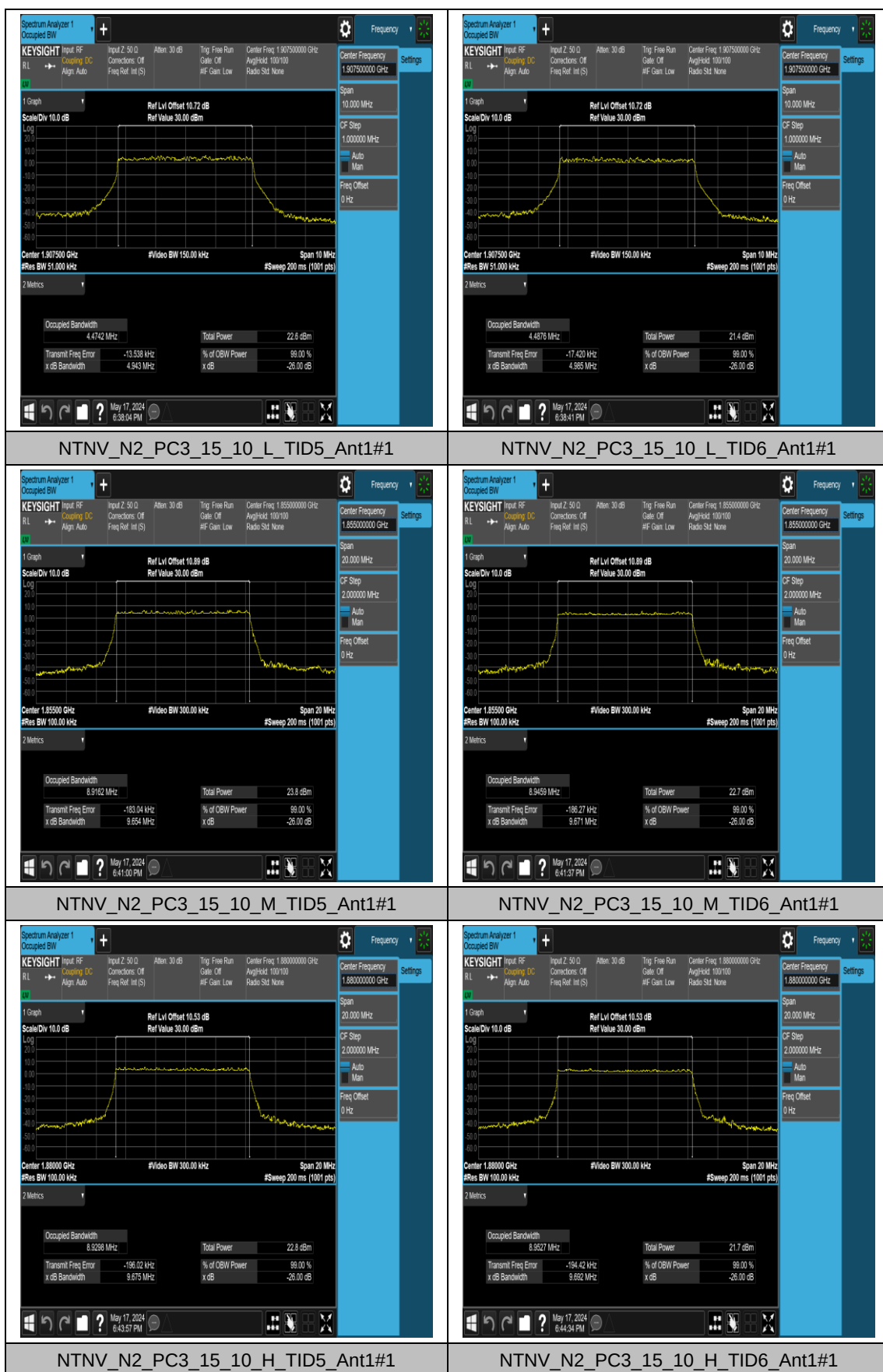
Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

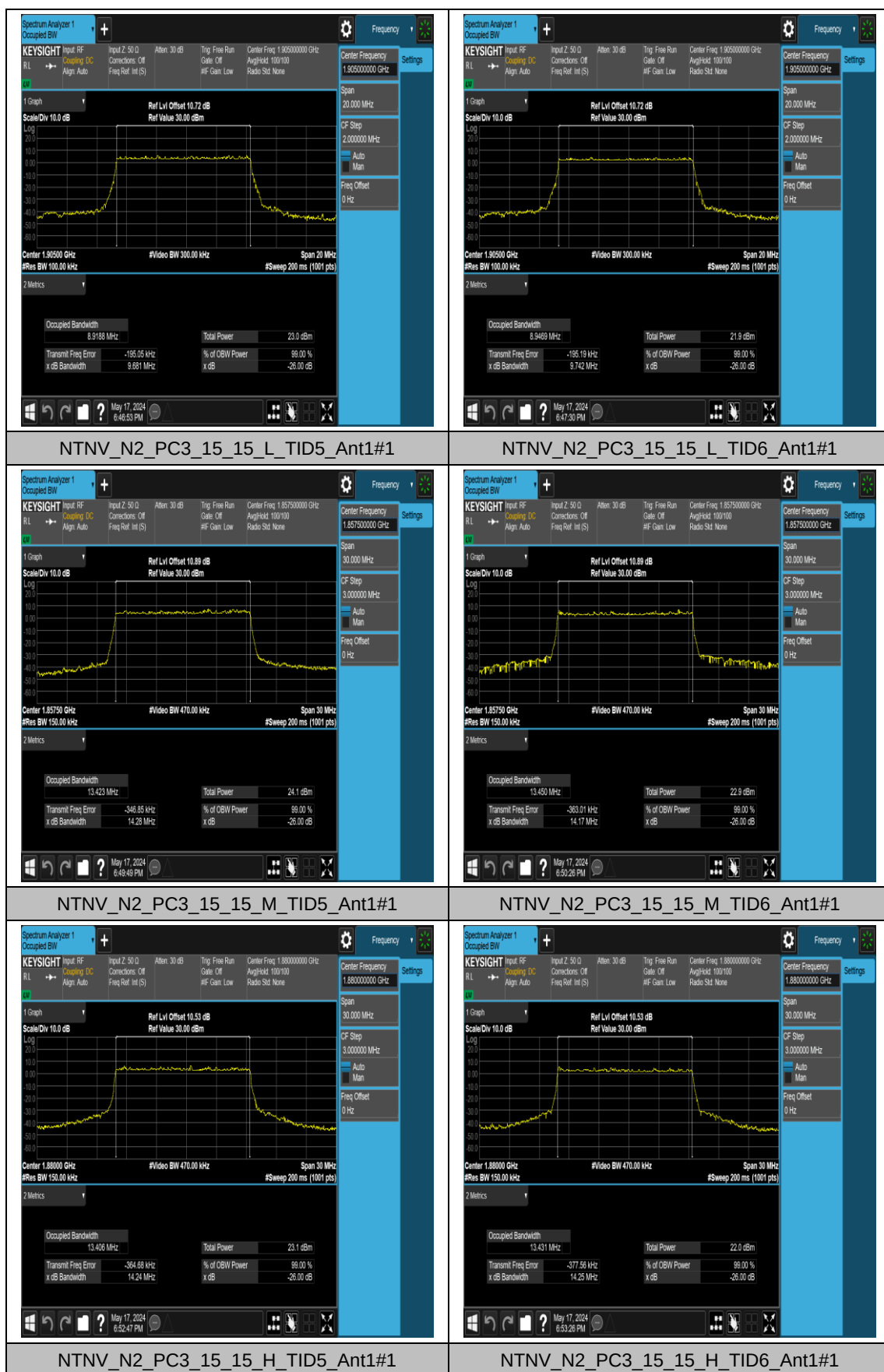
Test Result

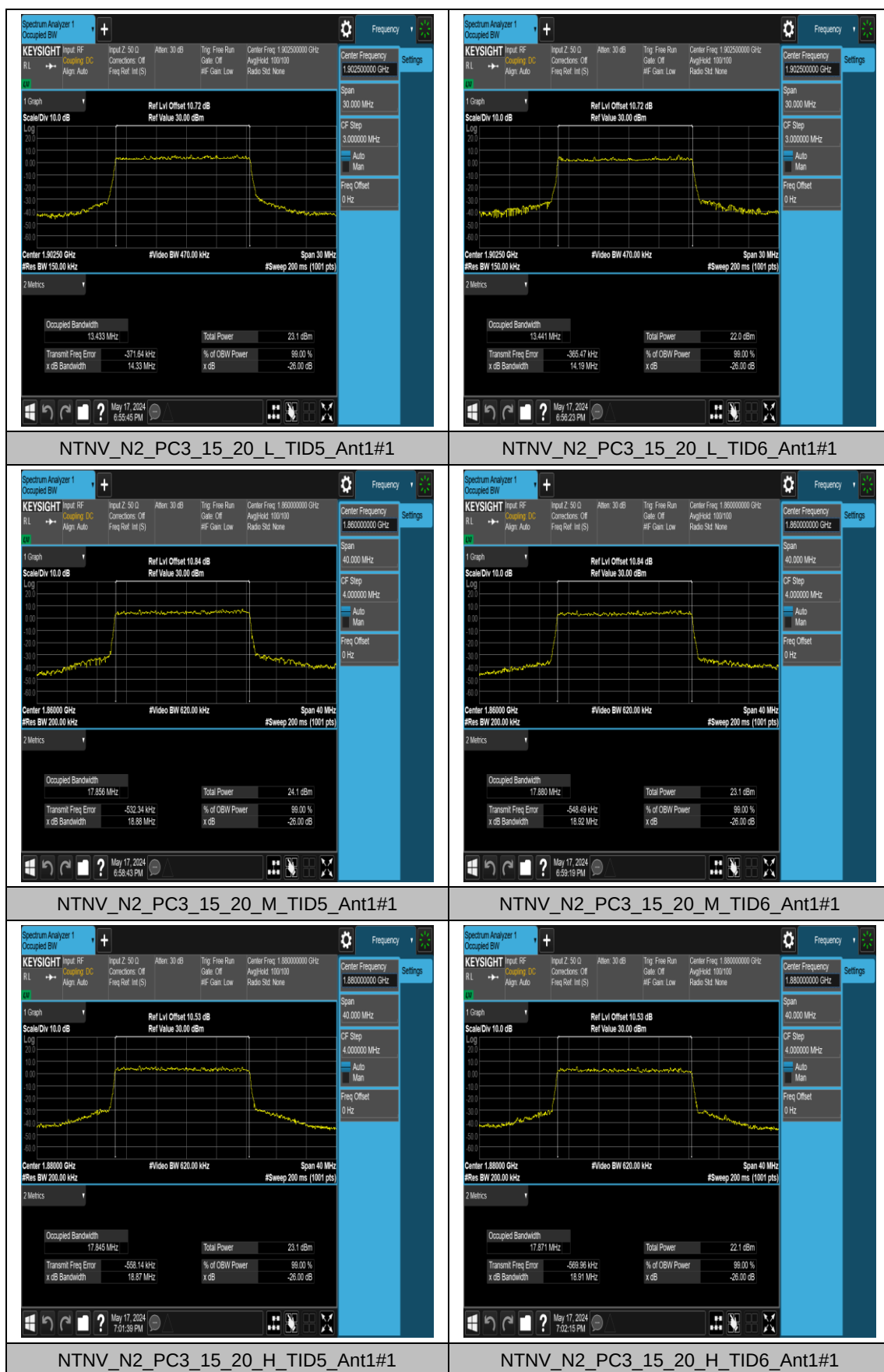
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N2	15	5	DFT-QPSK	L	Outer_Full	4.4925	5.130	PASS
N2	15	5	DFT-16QAM	L	Outer_Full	4.4856	5.059	PASS
N2	15	5	DFT-QPSK	M	Outer_Full	4.4754	4.977	PASS
N2	15	5	DFT-16QAM	M	Outer_Full	4.4801	4.926	PASS
N2	15	5	DFT-QPSK	H	Outer_Full	4.4742	4.943	PASS
N2	15	5	DFT-16QAM	H	Outer_Full	4.4876	4.985	PASS
N2	15	10	DFT-QPSK	L	Outer_Full	8.9162	9.654	PASS
N2	15	10	DFT-16QAM	L	Outer_Full	8.9459	9.671	PASS
N2	15	10	DFT-QPSK	M	Outer_Full	8.9298	9.675	PASS
N2	15	10	DFT-16QAM	M	Outer_Full	8.9527	9.692	PASS
N2	15	10	DFT-QPSK	H	Outer_Full	8.9188	9.681	PASS
N2	15	10	DFT-16QAM	H	Outer_Full	8.9469	9.742	PASS
N2	15	15	DFT-QPSK	L	Outer_Full	13.423	14.28	PASS
N2	15	15	DFT-16QAM	L	Outer_Full	13.450	14.17	PASS
N2	15	15	DFT-QPSK	M	Outer_Full	13.406	14.24	PASS
N2	15	15	DFT-16QAM	M	Outer_Full	13.431	14.25	PASS
N2	15	15	DFT-QPSK	H	Outer_Full	13.433	14.33	PASS
N2	15	15	DFT-16QAM	H	Outer_Full	13.441	14.19	PASS
N2	15	20	DFT-QPSK	L	Outer_Full	17.856	18.88	PASS
N2	15	20	DFT-16QAM	L	Outer_Full	17.880	18.92	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	17.845	18.87	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	17.871	18.91	PASS
N2	15	20	DFT-QPSK	H	Outer_Full	17.860	18.90	PASS
N2	15	20	DFT-16QAM	H	Outer_Full	17.859	18.93	PASS

Test Graphs











Appendix D: Band Edge for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Margin	Verdict
N2	15	5	DFT-QPSK	L	Outer_Full	-40.44	27.44	PASS
N2	15	5	DFT-QPSK	L	Edge_1RB_Left	-34.77	21.77	PASS
N2	15	5	DFT-16QAM	L	Outer_Full	-41.38	28.38	PASS
N2	15	5	DFT-16QAM	L	Edge_1RB_Left	-35.94	22.94	PASS
N2	15	5	DFT-QPSK	H	Outer_Full	-40.77	27.77	PASS
N2	15	5	DFT-QPSK	H	Edge_1RB_Right	-38.14	25.14	PASS
N2	15	5	DFT-16QAM	H	Outer_Full	-41.89	28.89	PASS
N2	15	5	DFT-16QAM	H	Edge_1RB_Right	-39.80	26.80	PASS
N2	15	10	DFT-QPSK	L	Outer_Full	-42.73	29.73	PASS
N2	15	10	DFT-QPSK	L	Edge_1RB_Left	-40.18	27.18	PASS
N2	15	10	DFT-16QAM	L	Outer_Full	-43.38	30.38	PASS
N2	15	10	DFT-16QAM	L	Edge_1RB_Left	-42.72	29.72	PASS
N2	15	10	DFT-QPSK	H	Outer_Full	-44.48	31.48	PASS
N2	15	10	DFT-QPSK	H	Edge_1RB_Right	-40.96	27.96	PASS
N2	15	10	DFT-16QAM	H	Outer_Full	-45.28	32.28	PASS
N2	15	10	DFT-16QAM	H	Edge_1RB_Right	-42.45	29.45	PASS
N2	15	15	DFT-QPSK	L	Outer_Full	-43.82	30.82	PASS
N2	15	15	DFT-QPSK	L	Edge_1RB_Left	-43.60	30.60	PASS
N2	15	15	DFT-16QAM	L	Outer_Full	-43.19	30.19	PASS
N2	15	15	DFT-16QAM	L	Edge_1RB_Left	-44.37	31.37	PASS
N2	15	15	DFT-QPSK	H	Outer_Full	-44.76	31.76	PASS
N2	15	15	DFT-QPSK	H	Edge_1RB_Right	-43.96	30.96	PASS
N2	15	15	DFT-16QAM	H	Outer_Full	-45.18	32.18	PASS
N2	15	15	DFT-16QAM	H	Edge_1RB_Right	-44.06	31.06	PASS
N2	15	20	DFT-QPSK	L	Outer_Full	-44.58	31.58	PASS
N2	15	20	DFT-QPSK	L	Edge_1RB_Left	-44.41	31.41	PASS
N2	15	20	DFT-16QAM	L	Outer_Full	-44.55	31.55	PASS
N2	15	20	DFT-16QAM	L	Edge_1RB_Left	-45.33	32.33	PASS
N2	15	20	DFT-QPSK	H	Outer_Full	-43.81	30.81	PASS
N2	15	20	DFT-QPSK	H	Edge_1RB_Right	-44.17	31.17	PASS
N2	15	20	DFT-16QAM	H	Outer_Full	-44.77	31.77	PASS
N2	15	20	DFT-16QAM	H	Edge_1RB_Right	-44.96	31.96	PASS

Test Graphs

