

Appendix for n7

Product Name: 5G CPE

Model No: C150

Appendix A: Average Power Output for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
N7	15	5	CP-QPSK	L	Outer_Full	22.01	PC3	PASS
N7	15	5	CP-QPSK	L	Edge_1RB_Left	21.94	PC3	PASS
N7	15	5	CP-QPSK	L	Inner_Full	23.48	PC3	PASS
N7	15	5	CP-QPSK	L	Edge_1RB_Right	22.28	PC3	PASS
N7	15	5	CP-16QAM	L	Outer_Full	22.21	PC3	PASS
N7	15	5	CP-16QAM	L	Edge_1RB_Left	22.53	PC3	PASS
N7	15	5	CP-16QAM	L	Inner_Full	22.96	PC3	PASS
N7	15	5	CP-16QAM	L	Edge_1RB_Right	21.95	PC3	PASS
N7	15	5	CP-QPSK	M	Outer_Full	21.70	PC3	PASS
N7	15	5	CP-QPSK	M	Edge_1RB_Left	21.67	PC3	PASS
N7	15	5	CP-QPSK	M	Inner_Full	23.45	PC3	PASS
N7	15	5	CP-QPSK	M	Edge_1RB_Right	22.00	PC3	PASS
N7	15	5	CP-16QAM	M	Outer_Full	22.15	PC3	PASS
N7	15	5	CP-16QAM	M	Edge_1RB_Left	22.30	PC3	PASS
N7	15	5	CP-16QAM	M	Inner_Full	22.66	PC3	PASS
N7	15	5	CP-16QAM	M	Edge_1RB_Right	21.76	PC3	PASS
N7	15	5	CP-QPSK	H	Outer_Full	22.04	PC3	PASS
N7	15	5	CP-QPSK	H	Edge_1RB_Left	21.67	PC3	PASS
N7	15	5	CP-QPSK	H	Inner_Full	23.36	PC3	PASS
N7	15	5	CP-QPSK	H	Edge_1RB_Right	22.01	PC3	PASS
N7	15	5	CP-16QAM	H	Outer_Full	22.09	PC3	PASS
N7	15	5	CP-16QAM	H	Edge_1RB_Left	21.78	PC3	PASS
N7	15	5	CP-16QAM	H	Inner_Full	22.97	PC3	PASS
N7	15	5	CP-16QAM	H	Edge_1RB_Right	21.85	PC3	PASS
N7	15	10	CP-QPSK	L	Outer_Full	22.19	PC3	PASS
N7	15	10	CP-QPSK	L	Edge_1RB_Left	22.09	PC3	PASS
N7	15	10	CP-QPSK	L	Inner_Full	23.86	PC3	PASS
N7	15	10	CP-QPSK	L	Edge_1RB_Right	22.27	PC3	PASS
N7	15	10	CP-16QAM	L	Outer_Full	22.33	PC3	PASS
N7	15	10	CP-16QAM	L	Edge_1RB_Left	22.44	PC3	PASS
N7	15	10	CP-16QAM	L	Inner_Full	23.28	PC3	PASS
N7	15	10	CP-16QAM	L	Edge_1RB_Right	22.23	PC3	PASS
N7	15	10	CP-QPSK	M	Outer_Full	21.80	PC3	PASS
N7	15	10	CP-QPSK	M	Edge_1RB_Left	22.02	PC3	PASS
N7	15	10	CP-QPSK	M	Inner_Full	23.49	PC3	PASS

N7	15	10	CP-QPSK	M	Edge_1RB_Right	21.72	PC3	PASS
N7	15	10	CP-16QAM	M	Outer_Full	21.95	PC3	PASS
N7	15	10	CP-16QAM	M	Edge_1RB_Left	21.98	PC3	PASS
N7	15	10	CP-16QAM	M	Inner_Full	22.99	PC3	PASS
N7	15	10	CP-16QAM	M	Edge_1RB_Right	21.90	PC3	PASS
N7	15	10	CP-QPSK	H	Outer_Full	21.71	PC3	PASS
N7	15	10	CP-QPSK	H	Edge_1RB_Left	22.04	PC3	PASS
N7	15	10	CP-QPSK	H	Inner_Full	23.28	PC3	PASS
N7	15	10	CP-QPSK	H	Edge_1RB_Right	21.85	PC3	PASS
N7	15	10	CP-16QAM	H	Outer_Full	22.08	PC3	PASS
N7	15	10	CP-16QAM	H	Edge_1RB_Left	21.95	PC3	PASS
N7	15	10	CP-16QAM	H	Inner_Full	23.23	PC3	PASS
N7	15	10	CP-16QAM	H	Edge_1RB_Right	22.03	PC3	PASS
N7	15	15	CP-QPSK	L	Outer_Full	22.08	PC3	PASS
N7	15	15	CP-QPSK	L	Edge_1RB_Left	22.05	PC3	PASS
N7	15	15	CP-QPSK	L	Inner_Full	23.78	PC3	PASS
N7	15	15	CP-QPSK	L	Edge_1RB_Right	22.05	PC3	PASS
N7	15	15	CP-16QAM	L	Outer_Full	22.21	PC3	PASS
N7	15	15	CP-16QAM	L	Edge_1RB_Left	22.11	PC3	PASS
N7	15	15	CP-16QAM	L	Inner_Full	23.11	PC3	PASS
N7	15	15	CP-16QAM	L	Edge_1RB_Right	22.24	PC3	PASS
N7	15	15	CP-QPSK	M	Outer_Full	21.87	PC3	PASS
N7	15	15	CP-QPSK	M	Edge_1RB_Left	21.66	PC3	PASS
N7	15	15	CP-QPSK	M	Inner_Full	23.57	PC3	PASS
N7	15	15	CP-QPSK	M	Edge_1RB_Right	21.87	PC3	PASS
N7	15	15	CP-16QAM	M	Outer_Full	21.84	PC3	PASS
N7	15	15	CP-16QAM	M	Edge_1RB_Left	21.97	PC3	PASS
N7	15	15	CP-16QAM	M	Inner_Full	23.05	PC3	PASS
N7	15	15	CP-16QAM	M	Edge_1RB_Right	22.16	PC3	PASS
N7	15	15	CP-QPSK	H	Outer_Full	22.22	PC3	PASS
N7	15	15	CP-QPSK	H	Edge_1RB_Left	21.68	PC3	PASS
N7	15	15	CP-QPSK	H	Inner_Full	23.68	PC3	PASS
N7	15	15	CP-QPSK	H	Edge_1RB_Right	22.01	PC3	PASS
N7	15	15	CP-16QAM	H	Outer_Full	22.16	PC3	PASS
N7	15	15	CP-16QAM	H	Edge_1RB_Left	21.56	PC3	PASS
N7	15	15	CP-16QAM	H	Inner_Full	22.90	PC3	PASS
N7	15	15	CP-16QAM	H	Edge_1RB_Right	22.26	PC3	PASS
N7	15	20	CP-QPSK	L	Outer_Full	22.24	PC3	PASS
N7	15	20	CP-QPSK	L	Edge_1RB_Left	22.20	PC3	PASS
N7	15	20	CP-QPSK	L	Inner_Full	23.91	PC3	PASS
N7	15	20	CP-QPSK	L	Edge_1RB_Right	21.86	PC3	PASS
N7	15	20	CP-16QAM	L	Outer_Full	22.09	PC3	PASS

N7	15	20	CP-16QAM	L	Edge_1RB_Left	22.36	PC3	PASS
N7	15	20	CP-16QAM	L	Inner_Full	23.26	PC3	PASS
N7	15	20	CP-16QAM	L	Edge_1RB_Right	21.96	PC3	PASS
N7	15	20	CP-QPSK	M	Outer_Full	22.09	PC3	PASS
N7	15	20	CP-QPSK	M	Edge_1RB_Left	22.11	PC3	PASS
N7	15	20	CP-QPSK	M	Inner_Full	23.59	PC3	PASS
N7	15	20	CP-QPSK	M	Edge_1RB_Right	22.03	PC3	PASS
N7	15	20	CP-16QAM	M	Outer_Full	22.15	PC3	PASS
N7	15	20	CP-16QAM	M	Edge_1RB_Left	22.03	PC3	PASS
N7	15	20	CP-16QAM	M	Inner_Full	23.13	PC3	PASS
N7	15	20	CP-16QAM	M	Edge_1RB_Right	22.32	PC3	PASS
N7	15	20	CP-QPSK	H	Outer_Full	22.22	PC3	PASS
N7	15	20	CP-QPSK	H	Edge_1RB_Left	22.00	PC3	PASS
N7	15	20	CP-QPSK	H	Inner_Full	23.44	PC3	PASS
N7	15	20	CP-QPSK	H	Edge_1RB_Right	22.11	PC3	PASS
N7	15	20	CP-16QAM	H	Outer_Full	21.86	PC3	PASS
N7	15	20	CP-16QAM	H	Edge_1RB_Left	22.05	PC3	PASS
N7	15	20	CP-16QAM	H	Inner_Full	23.12	PC3	PASS
N7	15	20	CP-16QAM	H	Edge_1RB_Right	22.26	PC3	PASS

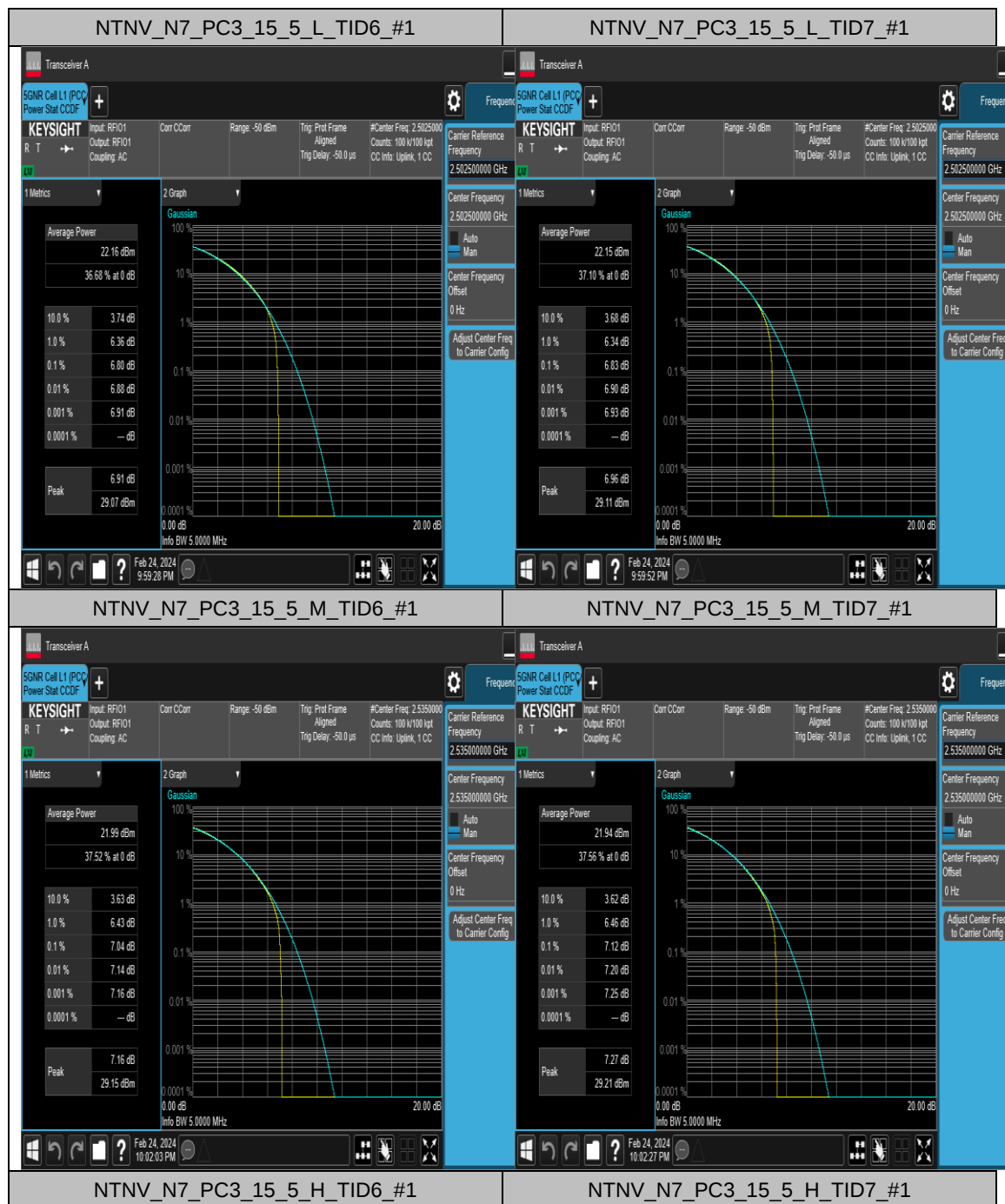
Appendix B: Peak-to-Average Ratio for SA

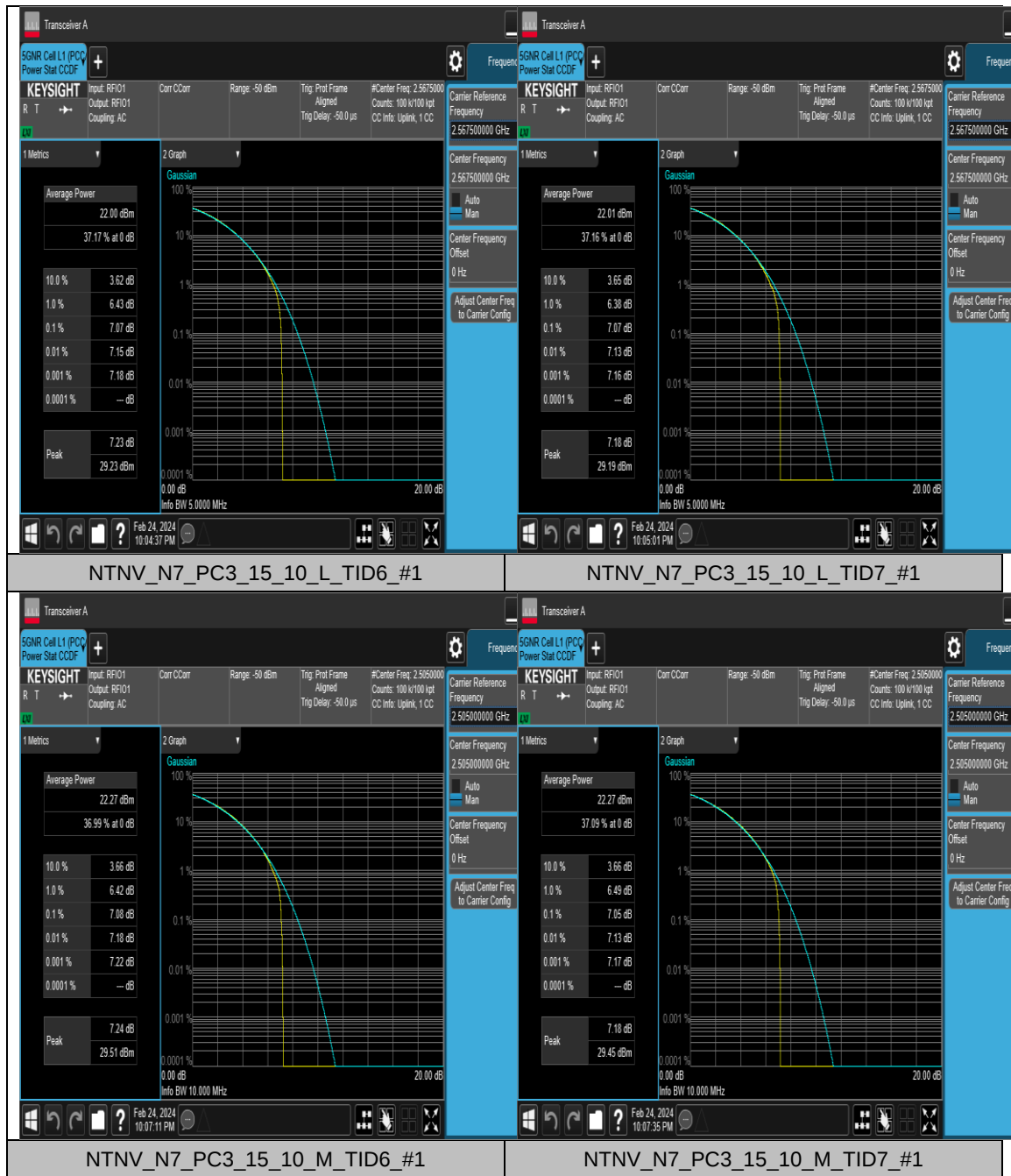
Peak-to-Average Ratio(CCDF)

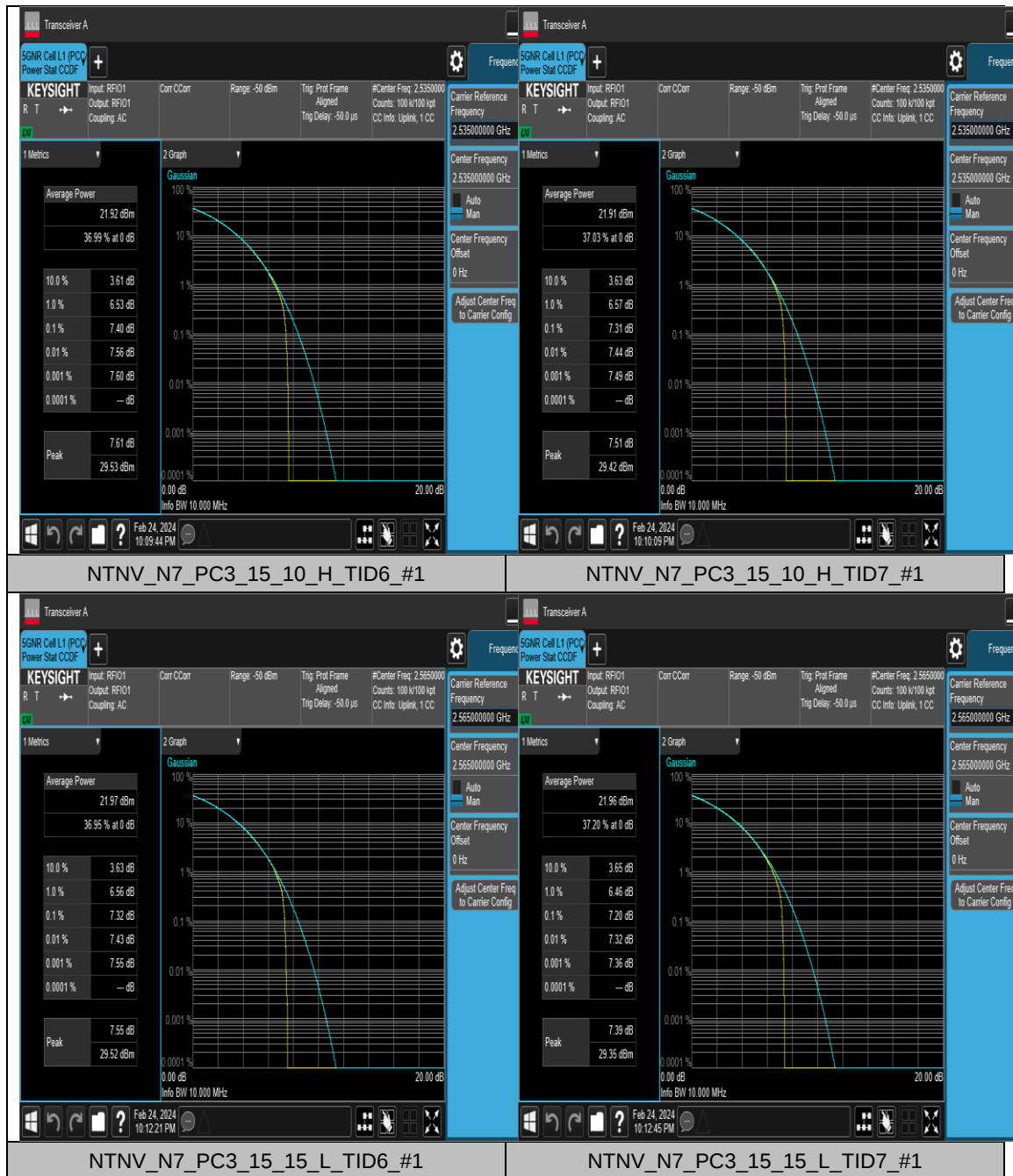
Test Result

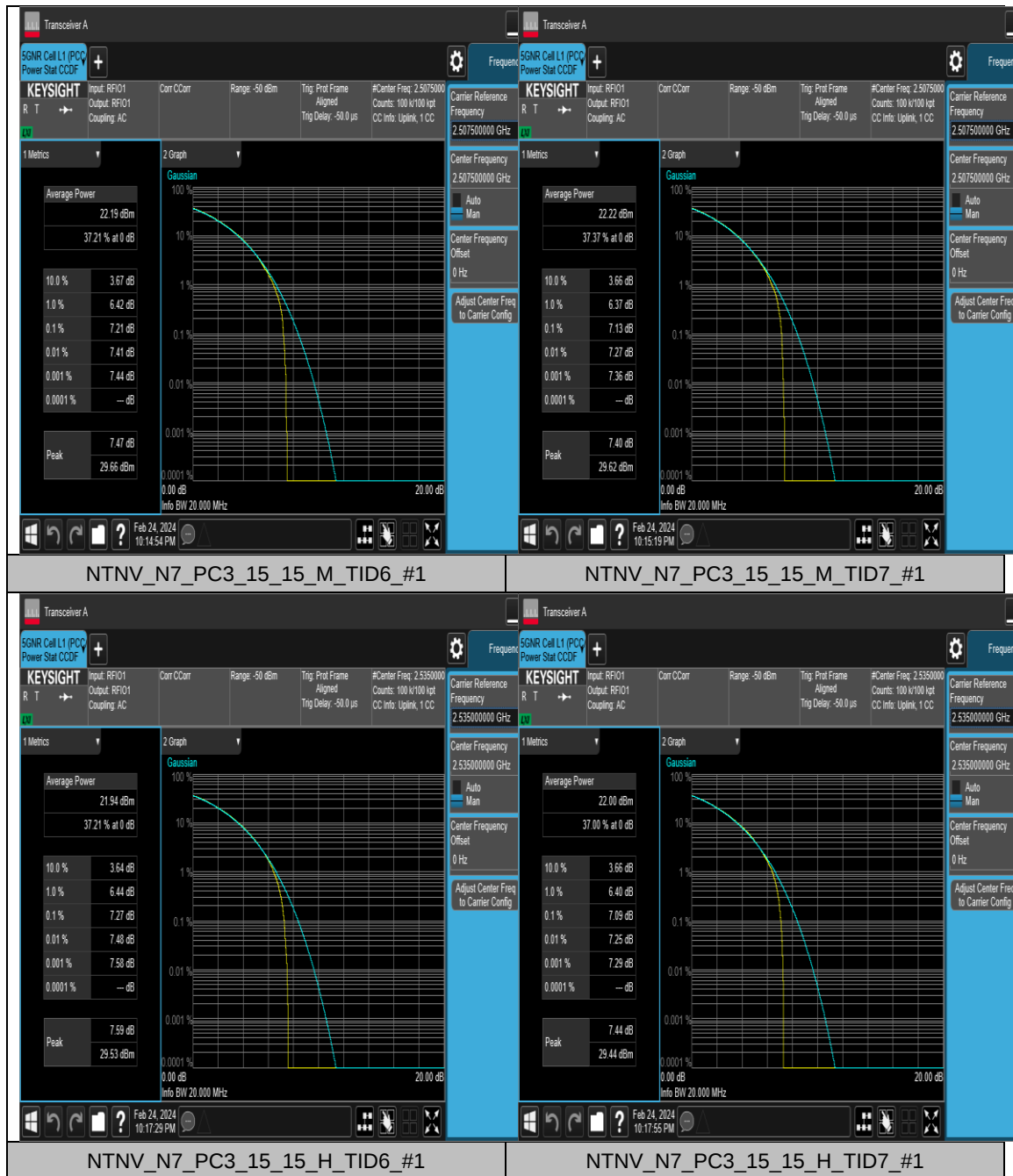
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N7	15	5	CP-QPSK	L	Outer_Full	6.80	≤13	PASS
N7	15	5	CP-16QAM	L	Outer_Full	6.83	≤13	PASS
N7	15	5	CP-QPSK	M	Outer_Full	7.04	≤13	PASS
N7	15	5	CP-16QAM	M	Outer_Full	7.12	≤13	PASS
N7	15	5	CP-QPSK	H	Outer_Full	7.07	≤13	PASS
N7	15	5	CP-16QAM	H	Outer_Full	7.07	≤13	PASS
N7	15	10	CP-QPSK	L	Outer_Full	7.08	≤13	PASS
N7	15	10	CP-16QAM	L	Outer_Full	7.05	≤13	PASS
N7	15	10	CP-QPSK	M	Outer_Full	7.40	≤13	PASS
N7	15	10	CP-16QAM	M	Outer_Full	7.31	≤13	PASS
N7	15	10	CP-QPSK	H	Outer_Full	7.32	≤13	PASS
N7	15	10	CP-16QAM	H	Outer_Full	7.20	≤13	PASS
N7	15	15	CP-QPSK	L	Outer_Full	7.21	≤13	PASS
N7	15	15	CP-16QAM	L	Outer_Full	7.13	≤13	PASS
N7	15	15	CP-QPSK	M	Outer_Full	7.27	≤13	PASS
N7	15	15	CP-16QAM	M	Outer_Full	7.09	≤13	PASS
N7	15	15	CP-QPSK	H	Outer_Full	7.27	≤13	PASS
N7	15	15	CP-16QAM	H	Outer_Full	7.10	≤13	PASS
N7	15	20	CP-QPSK	L	Outer_Full	7.19	≤13	PASS
N7	15	20	CP-16QAM	L	Outer_Full	7.08	≤13	PASS
N7	15	20	CP-QPSK	M	Outer_Full	7.03	≤13	PASS
N7	15	20	CP-16QAM	M	Outer_Full	7.72	≤13	PASS
N7	15	20	CP-QPSK	H	Outer_Full	7.58	≤13	PASS
N7	15	20	CP-16QAM	H	Outer_Full	7.41	≤13	PASS

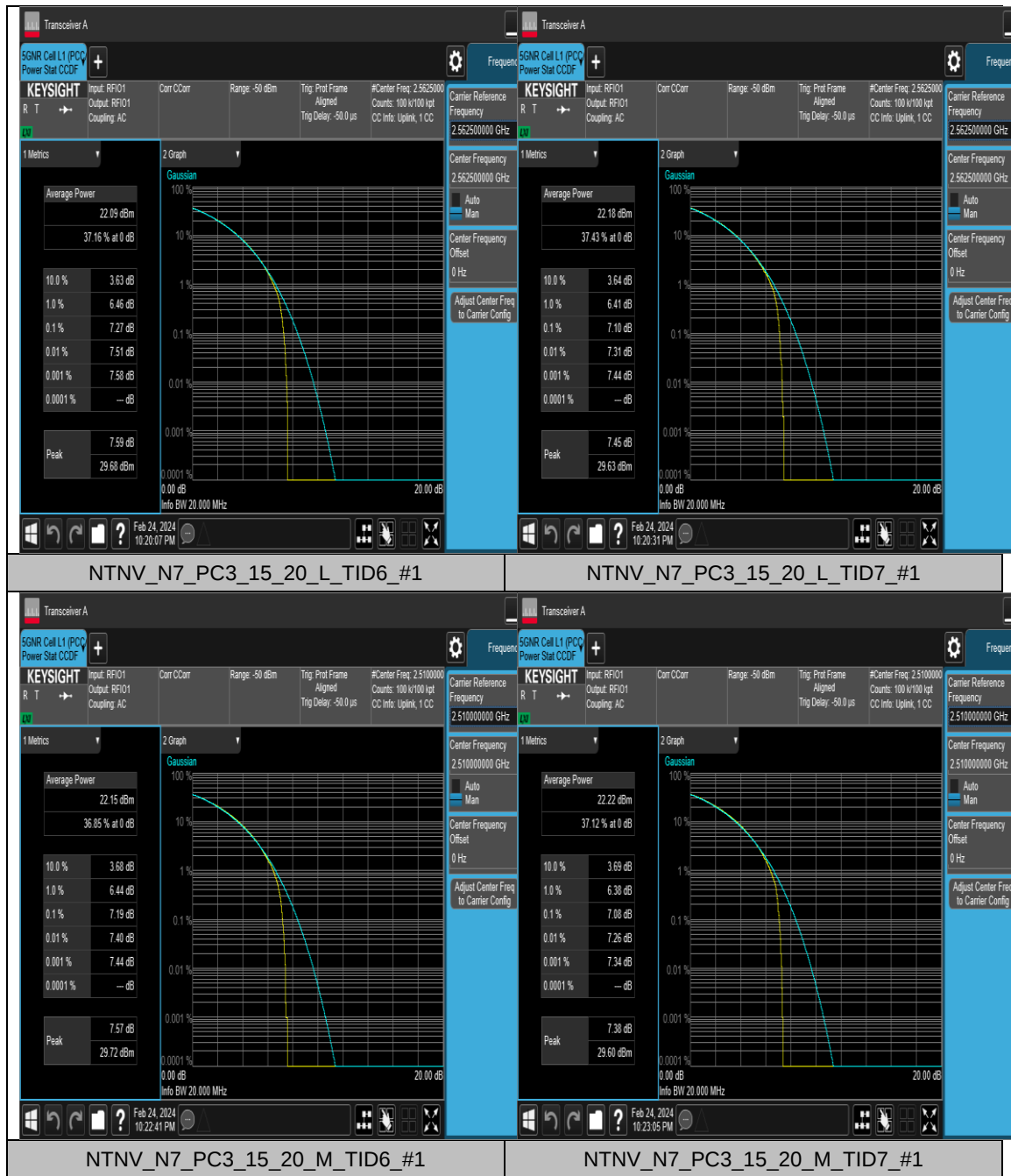
Test Graphs

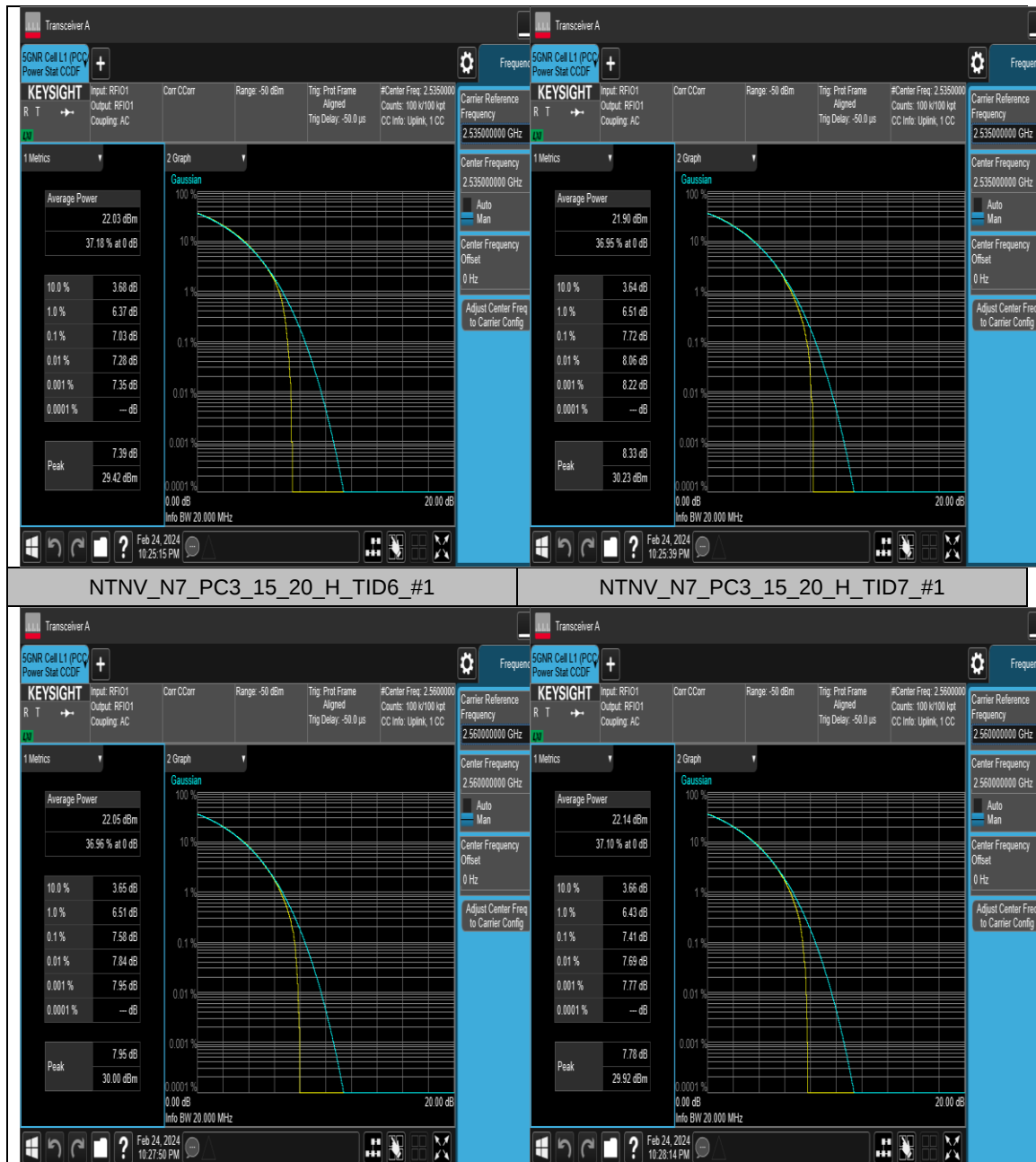










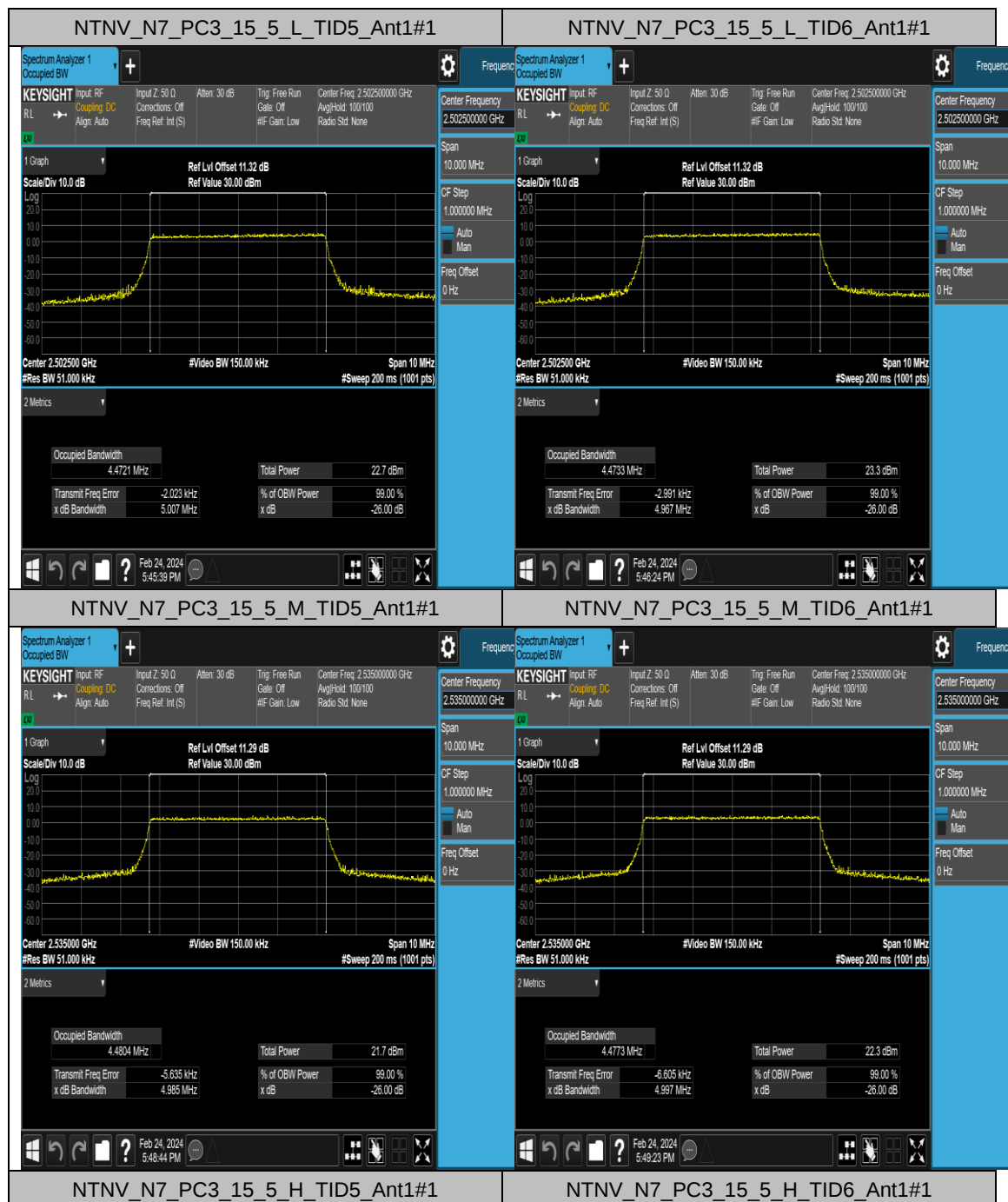


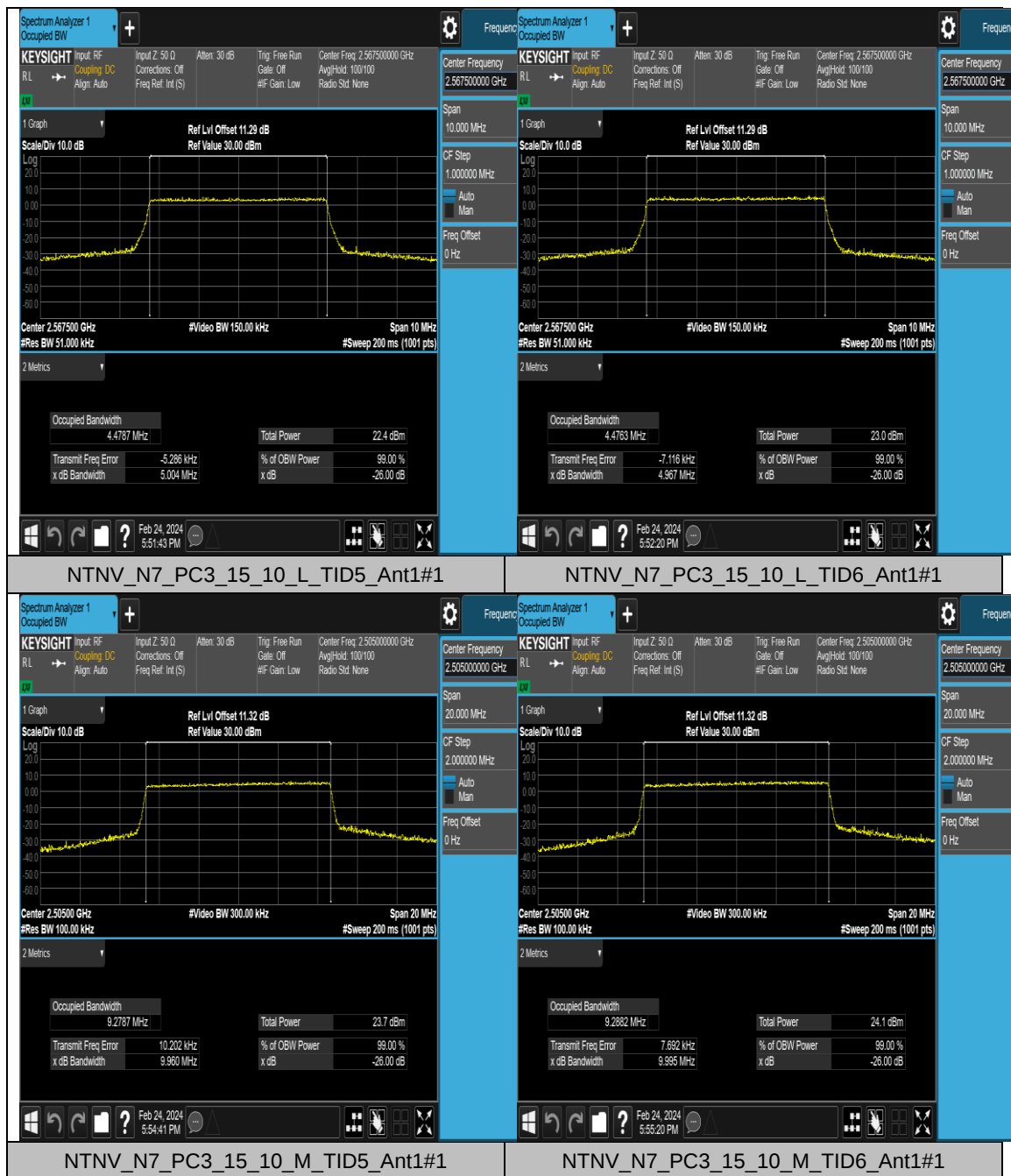
Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

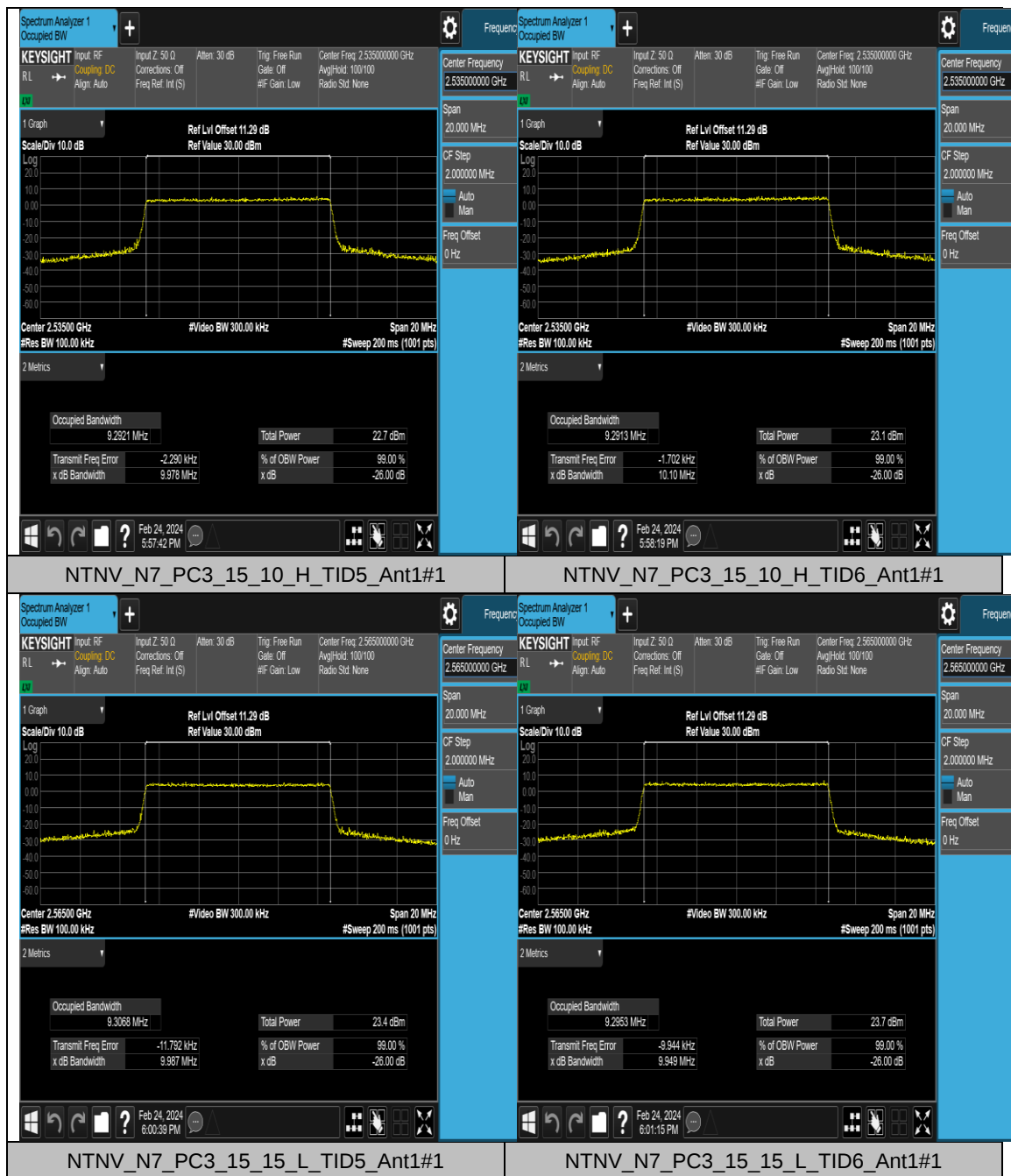
Test Result

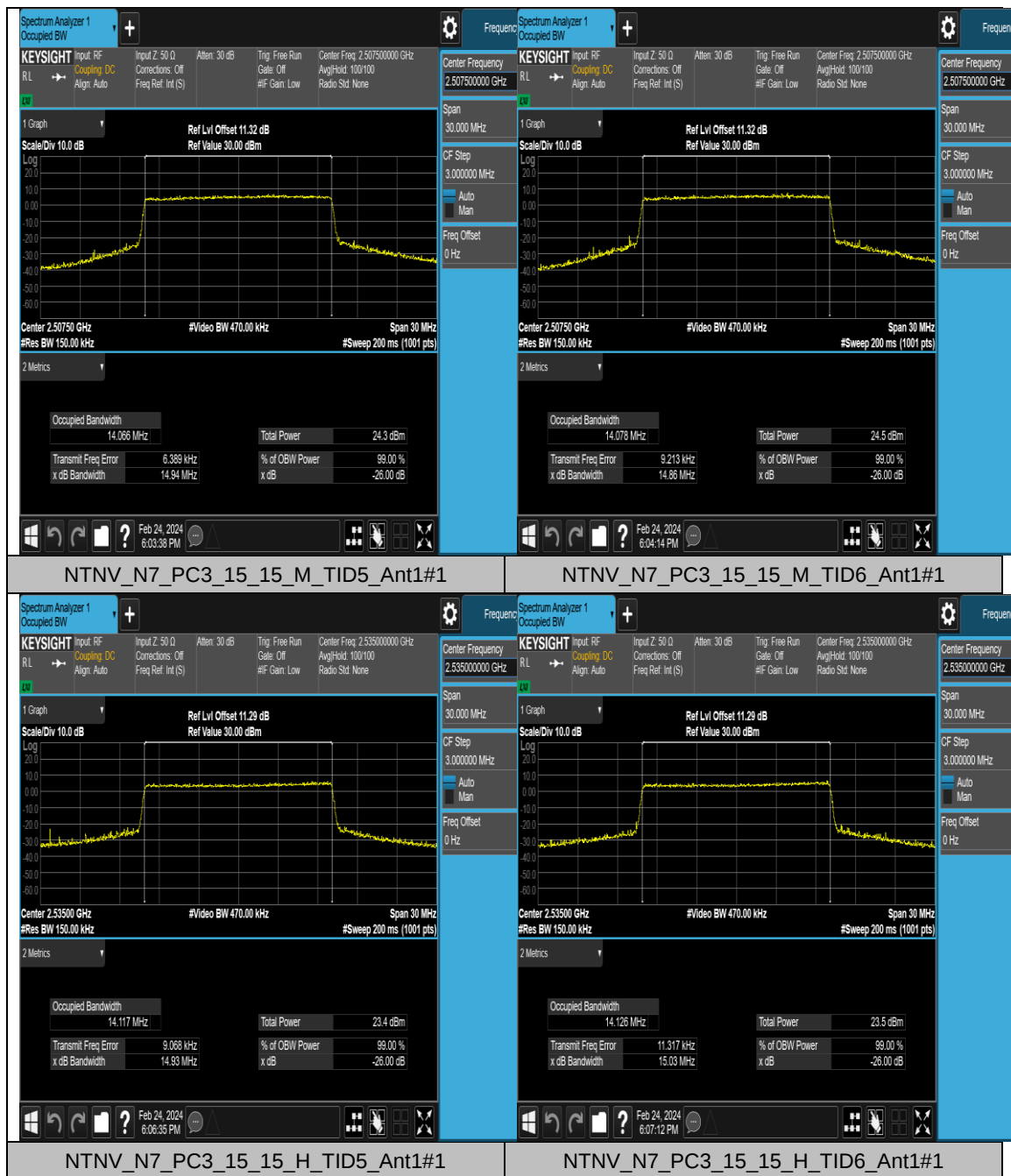
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N7	15	5	CP-QPSK	L	Outer_Full	4.4721	5.007	PASS
N7	15	5	CP-16QAM	L	Outer_Full	4.4733	4.967	PASS
N7	15	5	CP-QPSK	M	Outer_Full	4.4804	4.985	PASS
N7	15	5	CP-16QAM	M	Outer_Full	4.4773	4.997	PASS
N7	15	5	CP-QPSK	H	Outer_Full	4.4787	5.004	PASS
N7	15	5	CP-16QAM	H	Outer_Full	4.4763	4.967	PASS
N7	15	10	CP-QPSK	L	Outer_Full	9.2787	9.960	PASS
N7	15	10	CP-16QAM	L	Outer_Full	9.2882	9.995	PASS
N7	15	10	CP-QPSK	M	Outer_Full	9.2921	9.978	PASS
N7	15	10	CP-16QAM	M	Outer_Full	9.2913	10.10	PASS
N7	15	10	CP-QPSK	H	Outer_Full	9.3068	9.987	PASS
N7	15	10	CP-16QAM	H	Outer_Full	9.2953	9.949	PASS
N7	15	15	CP-QPSK	L	Outer_Full	14.066	14.94	PASS
N7	15	15	CP-16QAM	L	Outer_Full	14.078	14.86	PASS
N7	15	15	CP-QPSK	M	Outer_Full	14.117	14.93	PASS
N7	15	15	CP-16QAM	M	Outer_Full	14.126	15.03	PASS
N7	15	15	CP-QPSK	H	Outer_Full	14.131	15.33	PASS
N7	15	15	CP-16QAM	H	Outer_Full	14.136	15.02	PASS
N7	15	20	CP-QPSK	L	Outer_Full	18.802	19.64	PASS
N7	15	20	CP-16QAM	L	Outer_Full	18.820	19.78	PASS
N7	15	20	CP-QPSK	M	Outer_Full	18.923	19.86	PASS
N7	15	20	CP-16QAM	M	Outer_Full	18.922	19.76	PASS
N7	15	20	CP-QPSK	H	Outer_Full	18.920	19.87	PASS
N7	15	20	CP-16QAM	H	Outer_Full	18.934	19.83	PASS

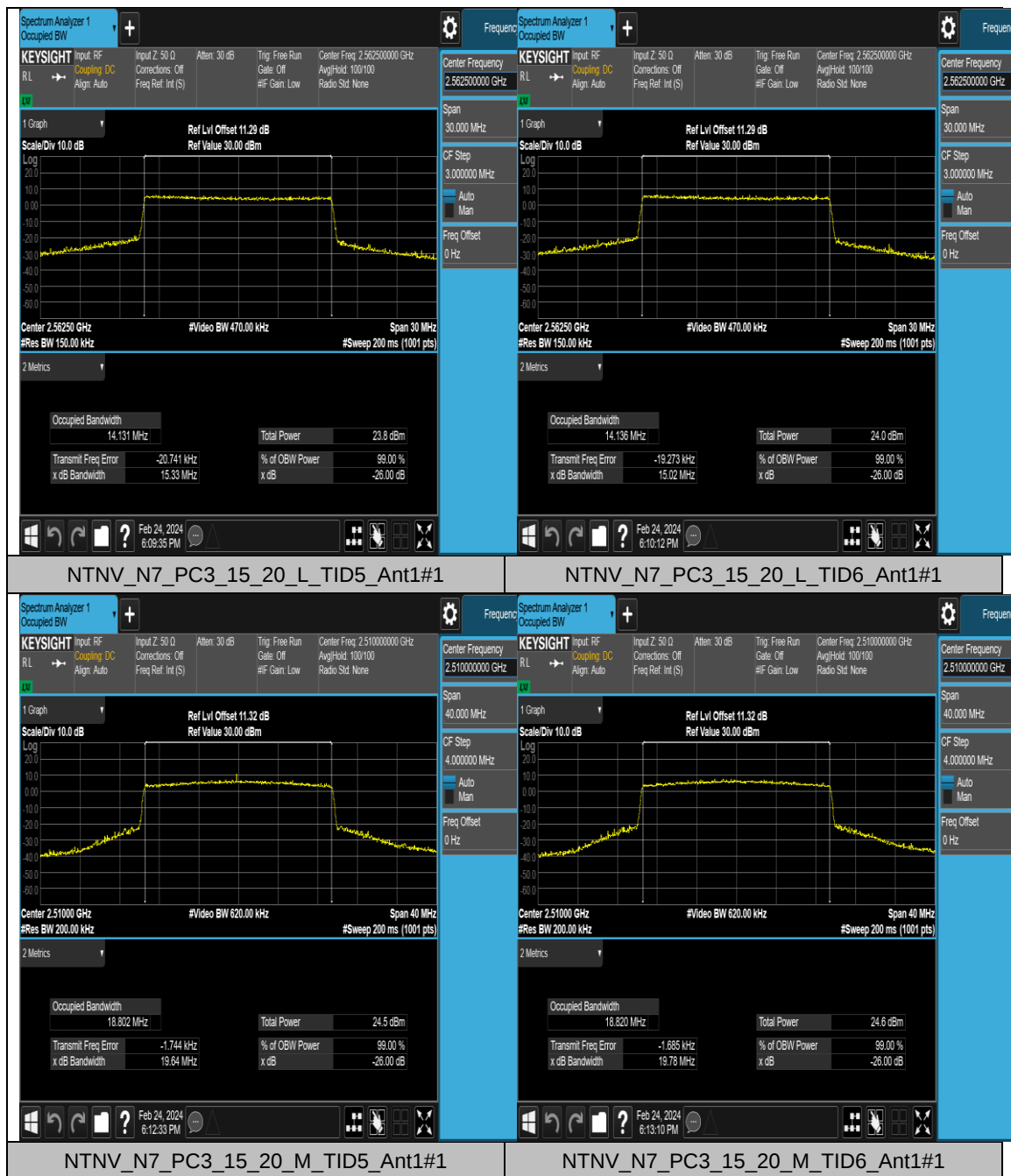
Test Graphs

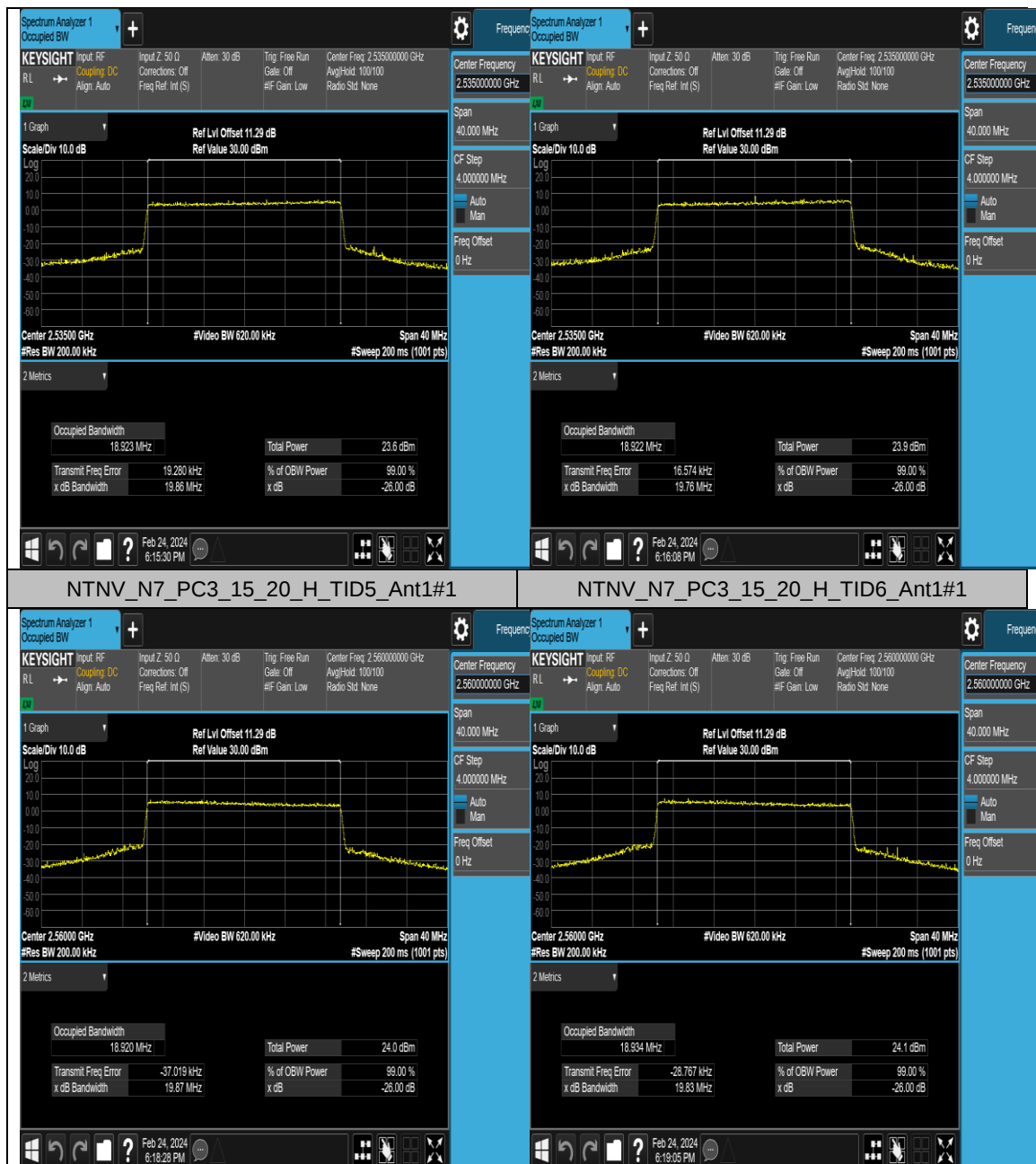












Appendix D: Band Edge for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Verdict
N7	15	5	CP-QPSK	L	Outer_Full	PASS
N7	15	5	CP-QPSK	L	Edge_1RB_Left	PASS
N7	15	5	DFT-16QAM	L	Outer_Full	PASS
N7	15	5	DFT-16QAM	L	Edge_1RB_Left	PASS
N7	15	5	CP-QPSK	H	Outer_Full	PASS
N7	15	5	CP-QPSK	H	Edge_1RB_Right	PASS
N7	15	5	DFT-16QAM	H	Outer_Full	PASS
N7	15	5	DFT-16QAM	H	Edge_1RB_Right	PASS
N7	15	10	CP-QPSK	L	Outer_Full	PASS
N7	15	10	CP-QPSK	L	Edge_1RB_Left	PASS
N7	15	10	DFT-16QAM	L	Outer_Full	PASS
N7	15	10	DFT-16QAM	L	Edge_1RB_Left	PASS
N7	15	10	CP-QPSK	H	Outer_Full	PASS
N7	15	10	CP-QPSK	H	Edge_1RB_Right	PASS
N7	15	10	DFT-16QAM	H	Outer_Full	PASS
N7	15	10	DFT-16QAM	H	Edge_1RB_Right	PASS
N7	15	15	CP-QPSK	L	Outer_Full	PASS
N7	15	15	CP-QPSK	L	Edge_1RB_Left	PASS
N7	15	15	DFT-16QAM	L	Outer_Full	PASS
N7	15	15	DFT-16QAM	L	Edge_1RB_Left	PASS
N7	15	15	CP-QPSK	H	Outer_Full	PASS
N7	15	15	CP-QPSK	H	Edge_1RB_Right	PASS
N7	15	15	DFT-16QAM	H	Outer_Full	PASS
N7	15	15	DFT-16QAM	H	Edge_1RB_Right	PASS
N7	15	20	CP-QPSK	L	Outer_Full	PASS
N7	15	20	CP-QPSK	L	Edge_1RB_Left	PASS
N7	15	20	DFT-16QAM	L	Outer_Full	PASS
N7	15	20	DFT-16QAM	L	Edge_1RB_Left	PASS
N7	15	20	CP-QPSK	H	Outer_Full	PASS
N7	15	20	CP-QPSK	H	Edge_1RB_Right	PASS
N7	15	20	DFT-16QAM	H	Outer_Full	PASS
N7	15	20	DFT-16QAM	H	Edge_1RB_Right	PASS

Test Graphs

