

Appendix for n38

Product Name: TITAN 5400

Model No: G5G-X62O

Appendix A: Average Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
N38	30	10	DFT-QPSK	L	Outer_Full	22.64	PC3	PASS
N38	30	10	DFT-QPSK	L	Inner_Full	23.54	PC3	PASS
N38	30	10	DFT-QPSK	L	Edge_1RB_Left	22.67	PC3	PASS
N38	30	10	DFT-QPSK	L	Edge_1RB_Right	22.76	PC3	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	21.55	PC3	PASS
N38	30	10	DFT-16QAM	L	Inner_Full	22.60	PC3	PASS
N38	30	10	DFT-16QAM	L	Edge_1RB_Left	22.23	PC3	PASS
N38	30	10	DFT-16QAM	L	Edge_1RB_Right	21.59	PC3	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	22.20	PC3	PASS
N38	30	10	DFT-QPSK	M	Inner_Full	23.29	PC3	PASS
N38	30	10	DFT-QPSK	M	Edge_1RB_Left	22.15	PC3	PASS
N38	30	10	DFT-QPSK	M	Edge_1RB_Right	22.20	PC3	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	21.28	PC3	PASS
N38	30	10	DFT-16QAM	M	Inner_Full	22.20	PC3	PASS
N38	30	10	DFT-16QAM	M	Edge_1RB_Left	20.98	PC3	PASS
N38	30	10	DFT-16QAM	M	Edge_1RB_Right	21.17	PC3	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	22.63	PC3	PASS
N38	30	10	DFT-QPSK	H	Inner_Full	23.63	PC3	PASS
N38	30	10	DFT-QPSK	H	Edge_1RB_Left	22.55	PC3	PASS
N38	30	10	DFT-QPSK	H	Edge_1RB_Right	22.55	PC3	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	21.67	PC3	PASS
N38	30	10	DFT-16QAM	H	Inner_Full	22.56	PC3	PASS
N38	30	10	DFT-16QAM	H	Edge_1RB_Left	21.34	PC3	PASS
N38	30	10	DFT-16QAM	H	Edge_1RB_Right	21.44	PC3	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	22.66	PC3	PASS
N38	30	15	DFT-QPSK	L	Inner_Full	23.68	PC3	PASS
N38	30	15	DFT-QPSK	L	Edge_1RB_Left	22.74	PC3	PASS
N38	30	15	DFT-QPSK	L	Edge_1RB_Right	22.56	PC3	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	21.62	PC3	PASS
N38	30	15	DFT-16QAM	L	Inner_Full	22.66	PC3	PASS
N38	30	15	DFT-16QAM	L	Edge_1RB_Left	21.67	PC3	PASS
N38	30	15	DFT-16QAM	L	Edge_1RB_Right	21.40	PC3	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	22.41	PC3	PASS
N38	30	15	DFT-QPSK	M	Inner_Full	23.36	PC3	PASS

N38	30	15	DFT-QPSK	M	Edge_1RB_Left	22.32	PC3	PASS
N38	30	15	DFT-QPSK	M	Edge_1RB_Right	22.53	PC3	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	21.39	PC3	PASS
N38	30	15	DFT-16QAM	M	Inner_Full	22.37	PC3	PASS
N38	30	15	DFT-16QAM	M	Edge_1RB_Left	21.46	PC3	PASS
N38	30	15	DFT-16QAM	M	Edge_1RB_Right	21.13	PC3	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	22.70	PC3	PASS
N38	30	15	DFT-QPSK	H	Inner_Full	23.65	PC3	PASS
N38	30	15	DFT-QPSK	H	Edge_1RB_Left	22.35	PC3	PASS
N38	30	15	DFT-QPSK	H	Edge_1RB_Right	22.43	PC3	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	21.63	PC3	PASS
N38	30	15	DFT-16QAM	H	Inner_Full	22.73	PC3	PASS
N38	30	15	DFT-16QAM	H	Edge_1RB_Left	21.25	PC3	PASS
N38	30	15	DFT-16QAM	H	Edge_1RB_Right	21.84	PC3	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	22.58	PC3	PASS
N38	30	20	DFT-QPSK	L	Inner_Full	23.57	PC3	PASS
N38	30	20	DFT-QPSK	L	Edge_1RB_Left	22.66	PC3	PASS
N38	30	20	DFT-QPSK	L	Edge_1RB_Right	22.41	PC3	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	21.60	PC3	PASS
N38	30	20	DFT-16QAM	L	Inner_Full	22.56	PC3	PASS
N38	30	20	DFT-16QAM	L	Edge_1RB_Left	21.49	PC3	PASS
N38	30	20	DFT-16QAM	L	Edge_1RB_Right	21.07	PC3	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	22.23	PC3	PASS
N38	30	20	DFT-QPSK	M	Inner_Full	23.37	PC3	PASS
N38	30	20	DFT-QPSK	M	Edge_1RB_Left	22.43	PC3	PASS
N38	30	20	DFT-QPSK	M	Edge_1RB_Right	22.51	PC3	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	21.27	PC3	PASS
N38	30	20	DFT-16QAM	M	Inner_Full	22.39	PC3	PASS
N38	30	20	DFT-16QAM	M	Edge_1RB_Left	21.34	PC3	PASS
N38	30	20	DFT-16QAM	M	Edge_1RB_Right	21.25	PC3	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	22.58	PC3	PASS
N38	30	20	DFT-QPSK	H	Inner_Full	23.64	PC3	PASS
N38	30	20	DFT-QPSK	H	Edge_1RB_Left	22.31	PC3	PASS
N38	30	20	DFT-QPSK	H	Edge_1RB_Right	22.76	PC3	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	21.59	PC3	PASS
N38	30	20	DFT-16QAM	H	Inner_Full	22.64	PC3	PASS
N38	30	20	DFT-16QAM	H	Edge_1RB_Left	21.32	PC3	PASS
N38	30	20	DFT-16QAM	H	Edge_1RB_Right	21.78	PC3	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	22.54	PC3	PASS
N38	30	30	DFT-QPSK	L	Inner_Full	23.55	PC3	PASS
N38	30	30	DFT-QPSK	L	Edge_1RB_Left	22.54	PC3	PASS
N38	30	30	DFT-QPSK	L	Edge_1RB_Right	22.41	PC3	PASS

N38	30	30	DFT-16QAM	L	Outer_Full	21.54	PC3	PASS
N38	30	30	DFT-16QAM	L	Inner_Full	22.64	PC3	PASS
N38	30	30	DFT-16QAM	L	Edge_1RB_Left	21.70	PC3	PASS
N38	30	30	DFT-16QAM	L	Edge_1RB_Right	21.27	PC3	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	22.44	PC3	PASS
N38	30	30	DFT-QPSK	M	Inner_Full	23.36	PC3	PASS
N38	30	30	DFT-QPSK	M	Edge_1RB_Left	22.61	PC3	PASS
N38	30	30	DFT-QPSK	M	Edge_1RB_Right	22.62	PC3	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	21.36	PC3	PASS
N38	30	30	DFT-16QAM	M	Inner_Full	22.42	PC3	PASS
N38	30	30	DFT-16QAM	M	Edge_1RB_Left	21.68	PC3	PASS
N38	30	30	DFT-16QAM	M	Edge_1RB_Right	21.45	PC3	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	22.56	PC3	PASS
N38	30	30	DFT-QPSK	H	Inner_Full	23.42	PC3	PASS
N38	30	30	DFT-QPSK	H	Edge_1RB_Left	22.46	PC3	PASS
N38	30	30	DFT-QPSK	H	Edge_1RB_Right	22.90	PC3	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	21.60	PC3	PASS
N38	30	30	DFT-16QAM	H	Inner_Full	22.48	PC3	PASS
N38	30	30	DFT-16QAM	H	Edge_1RB_Left	21.40	PC3	PASS
N38	30	30	DFT-16QAM	H	Edge_1RB_Right	21.64	PC3	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	22.56	PC3	PASS
N38	30	40	DFT-QPSK	L	Inner_Full	23.38	PC3	PASS
N38	30	40	DFT-QPSK	L	Edge_1RB_Left	22.62	PC3	PASS
N38	30	40	DFT-QPSK	L	Edge_1RB_Right	22.59	PC3	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	21.50	PC3	PASS
N38	30	40	DFT-16QAM	L	Inner_Full	22.39	PC3	PASS
N38	30	40	DFT-16QAM	L	Edge_1RB_Left	21.54	PC3	PASS
N38	30	40	DFT-16QAM	L	Edge_1RB_Right	21.60	PC3	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	22.52	PC3	PASS
N38	30	40	DFT-QPSK	M	Inner_Full	23.37	PC3	PASS
N38	30	40	DFT-QPSK	M	Edge_1RB_Left	22.42	PC3	PASS
N38	30	40	DFT-QPSK	M	Edge_1RB_Right	22.60	PC3	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	21.48	PC3	PASS
N38	30	40	DFT-16QAM	M	Inner_Full	22.38	PC3	PASS
N38	30	40	DFT-16QAM	M	Edge_1RB_Left	21.55	PC3	PASS
N38	30	40	DFT-16QAM	M	Edge_1RB_Right	21.80	PC3	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	22.50	PC3	PASS
N38	30	40	DFT-QPSK	H	Inner_Full	23.42	PC3	PASS
N38	30	40	DFT-QPSK	H	Edge_1RB_Left	22.73	PC3	PASS
N38	30	40	DFT-QPSK	H	Edge_1RB_Right	22.78	PC3	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	21.56	PC3	PASS
N38	30	40	DFT-16QAM	H	Inner_Full	22.47	PC3	PASS

N38	30	40	DFT-16QAM	H	Edge_1RB_Left	21.70	PC3	PASS
N38	30	40	DFT-16QAM	H	Edge_1RB_Right	21.90	PC3	PASS

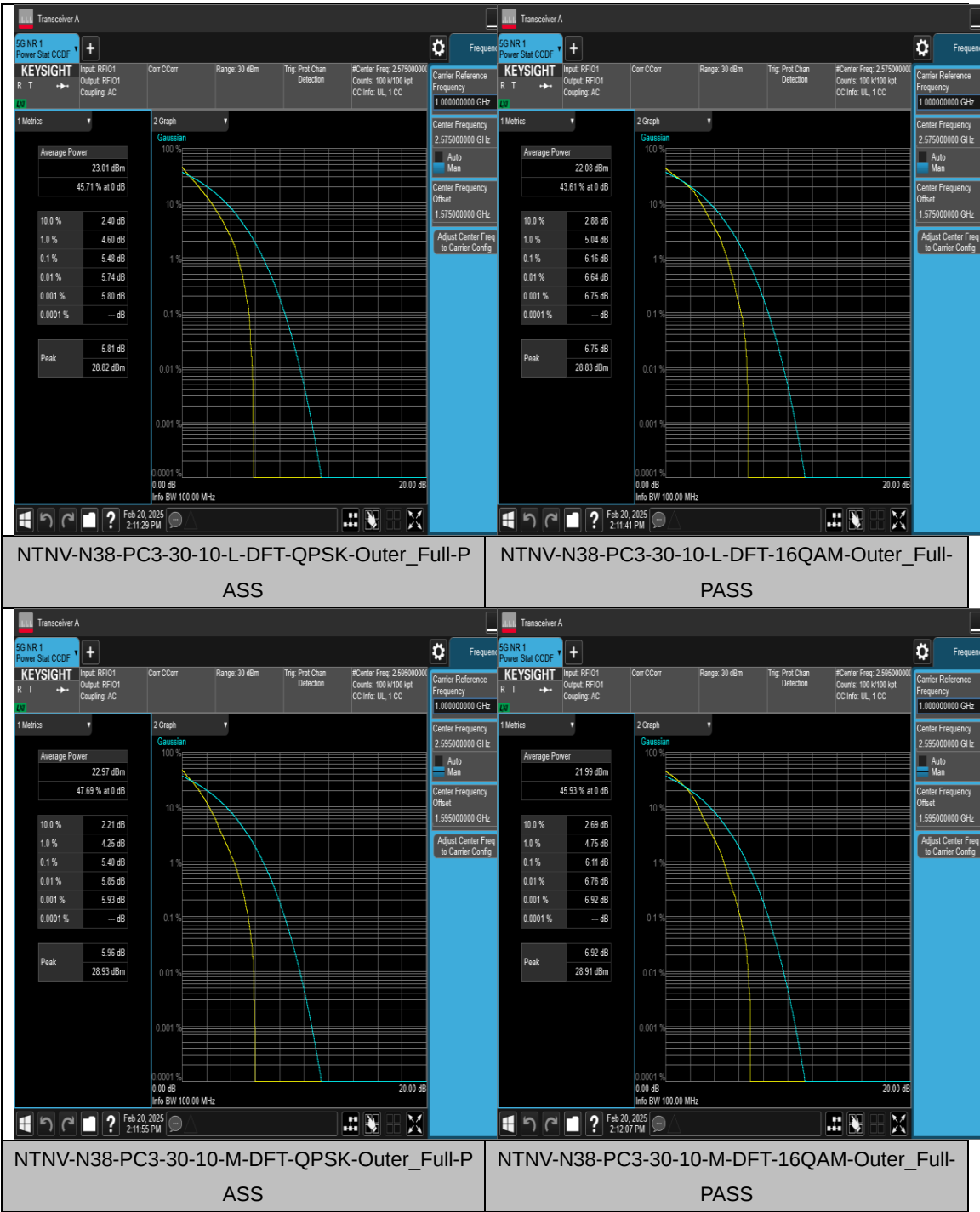
Appendix B: Peak-to-Average Ratio for SA

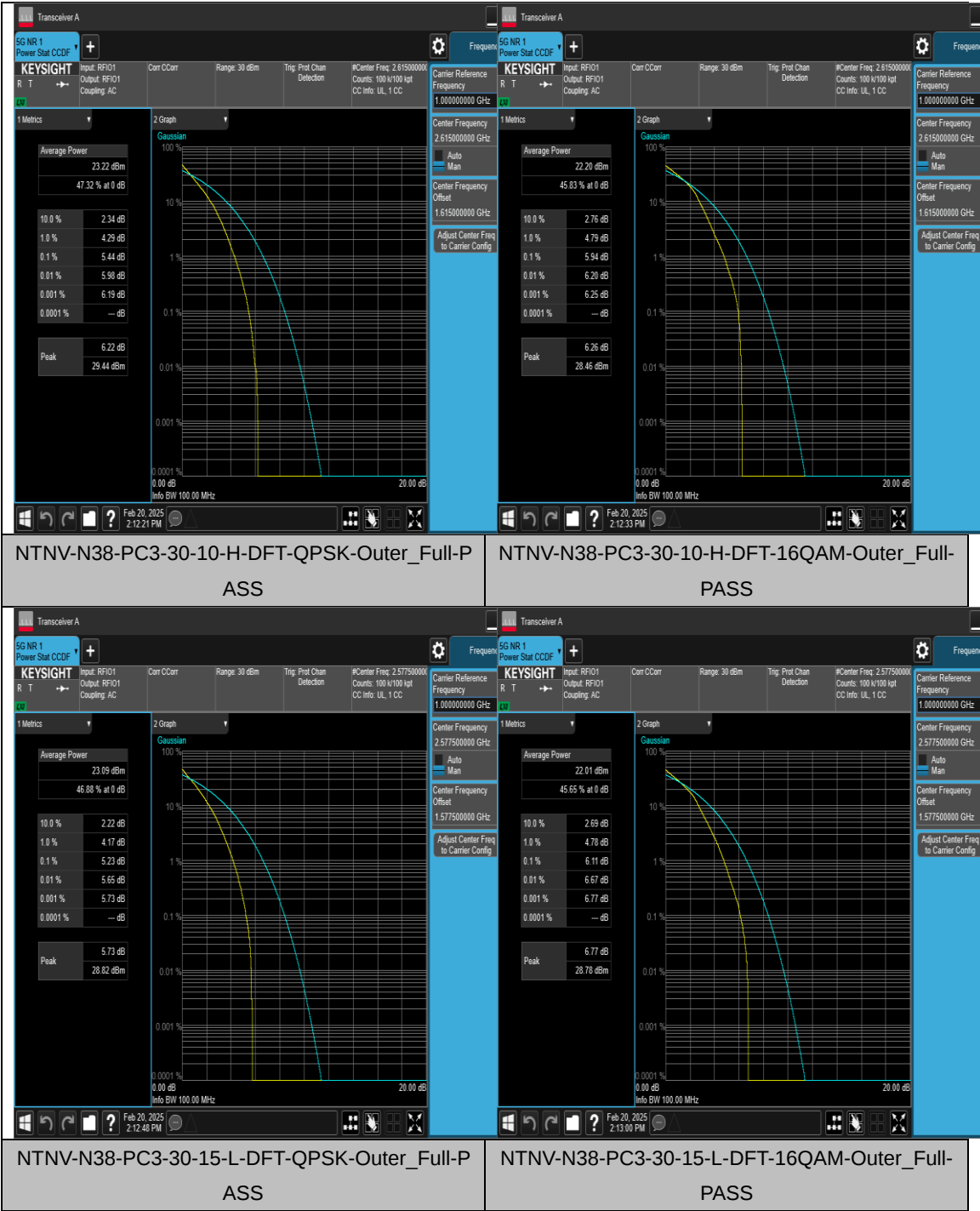
Peak-to-Average Ratio(CCDF)

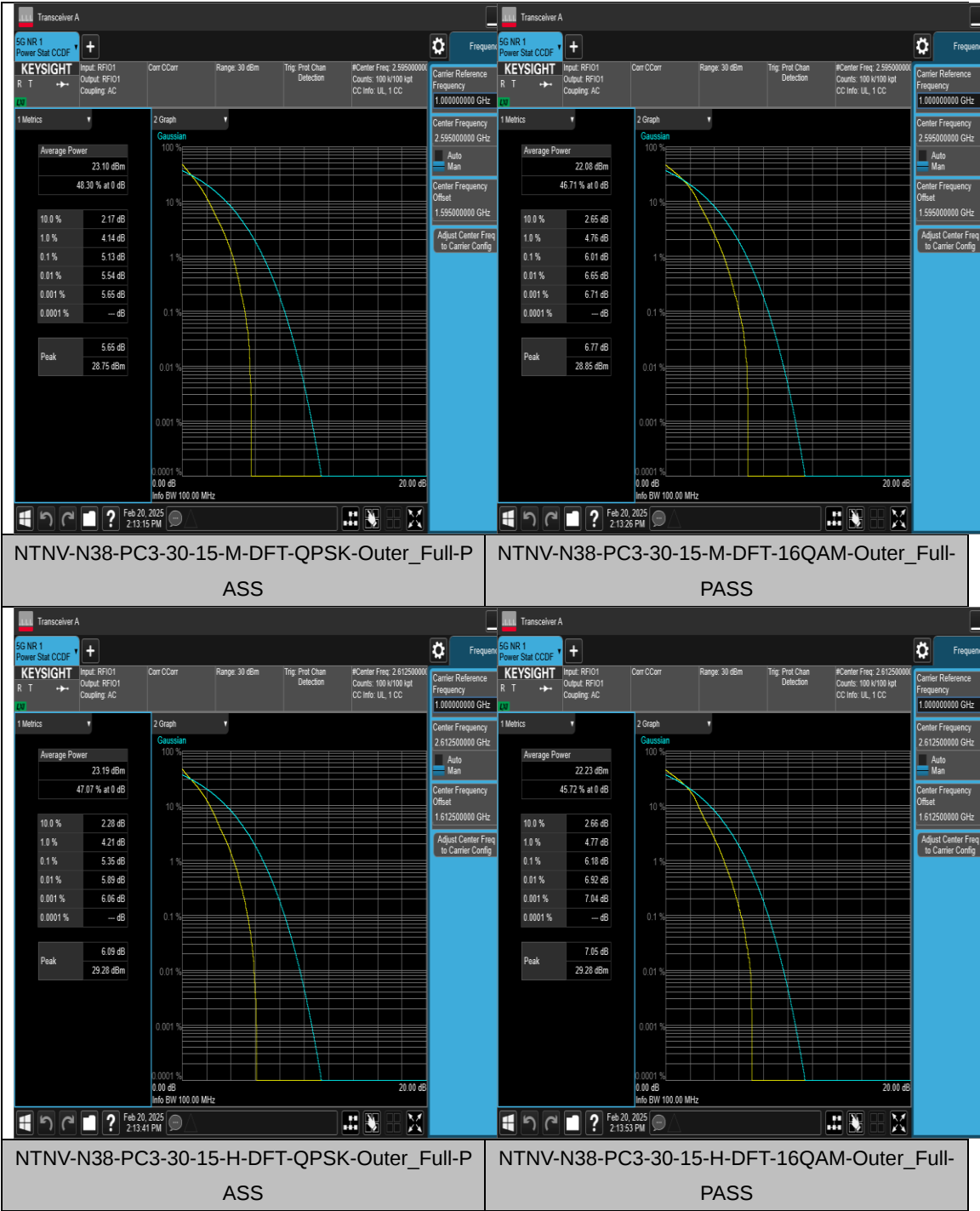
Test Result

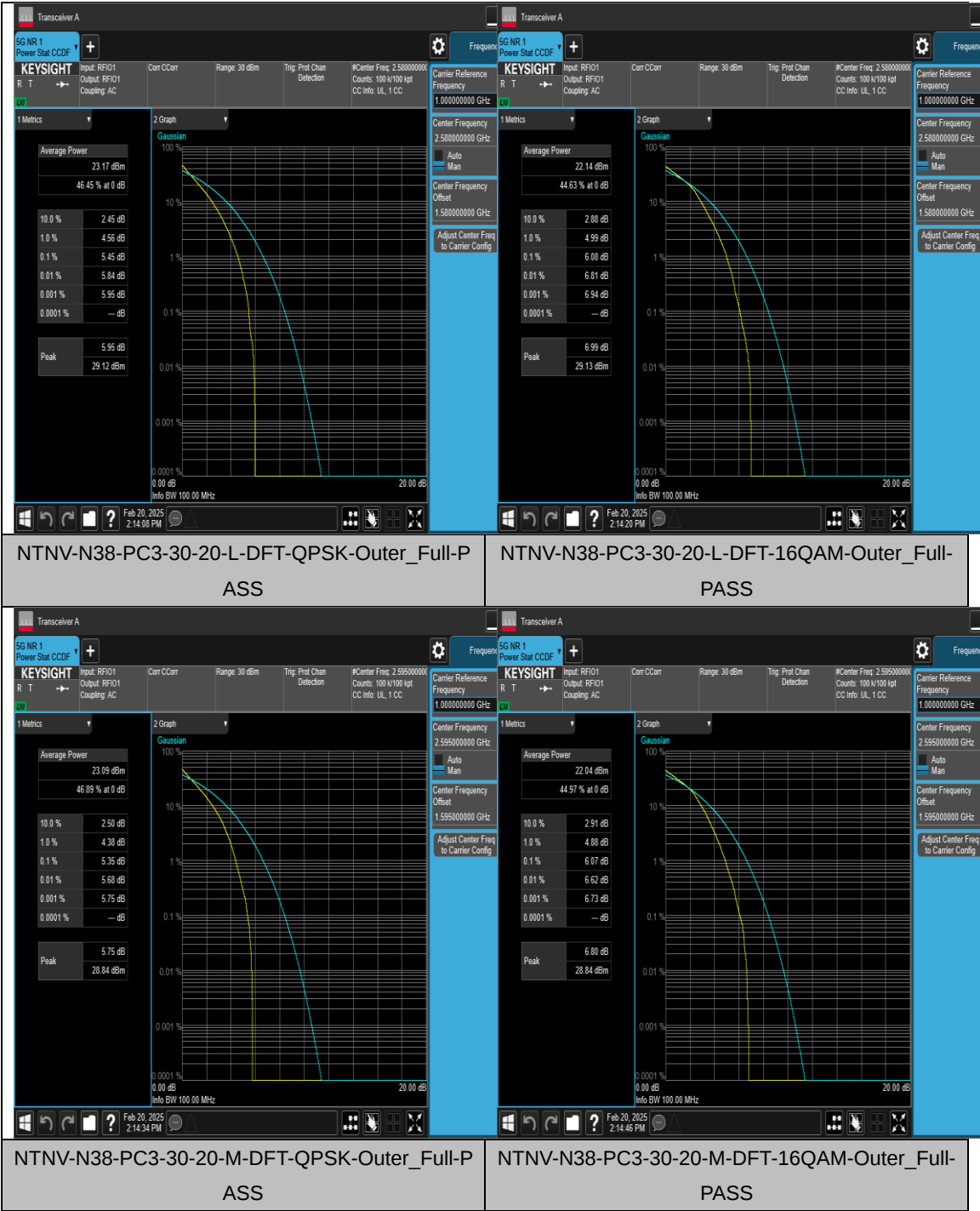
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N38	30	10	DFT-QPSK	L	Outer_Full	5.48	≤13	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	6.16	≤13	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	5.40	≤13	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	6.11	≤13	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	5.44	≤13	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	5.94	≤13	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	5.23	≤13	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	6.11	≤13	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	5.13	≤13	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	6.01	≤13	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	5.35	≤13	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	6.18	≤13	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	5.45	≤13	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	6.08	≤13	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	5.35	≤13	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	6.07	≤13	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	5.35	≤13	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	5.99	≤13	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	5.38	≤13	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	6.11	≤13	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	5.16	≤13	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	5.97	≤13	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	5.40	≤13	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	6.10	≤13	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	5.36	≤13	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	6.12	≤13	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	5.06	≤13	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	5.90	≤13	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	5.56	≤13	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	6.12	≤13	PASS

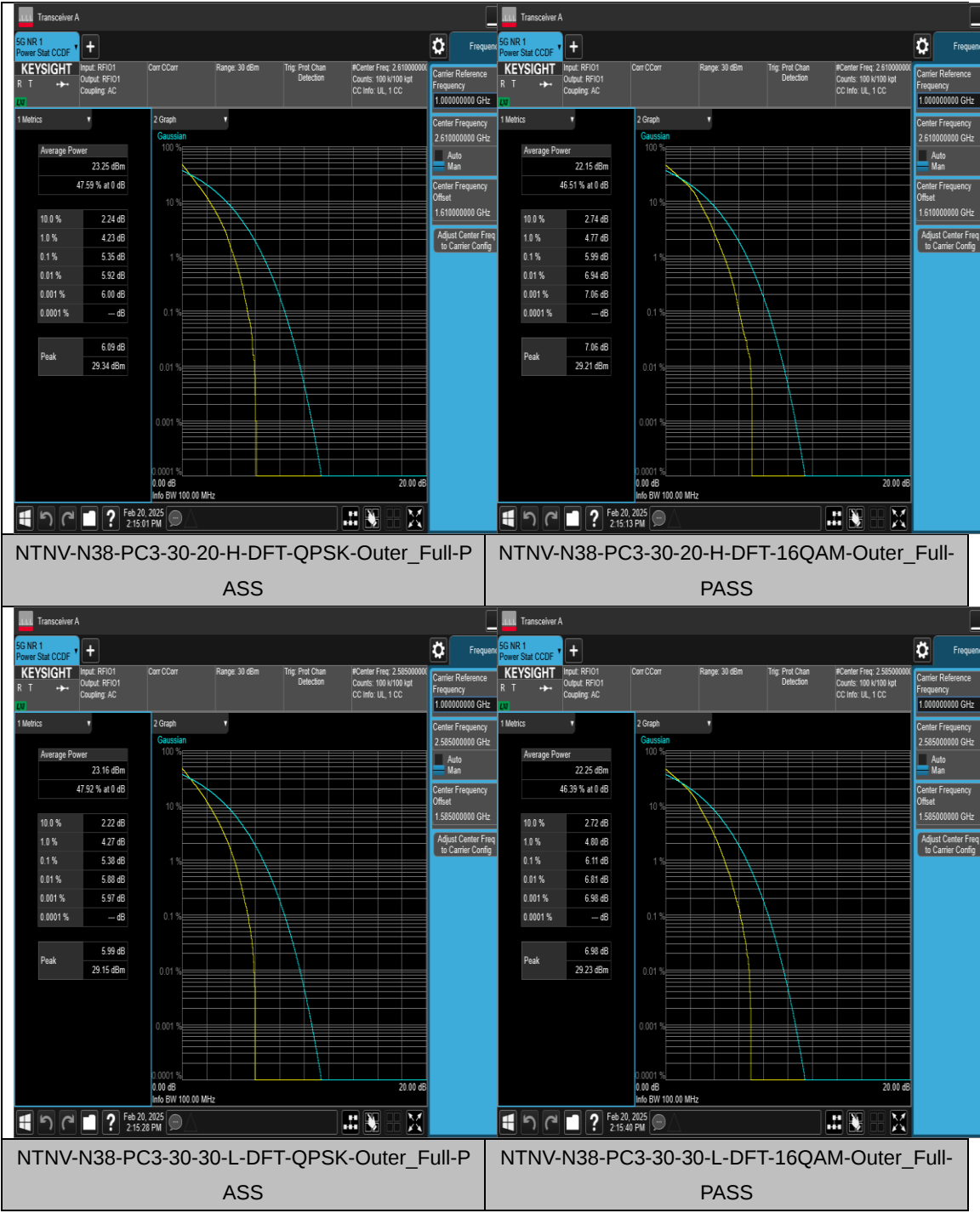
Test Graphs

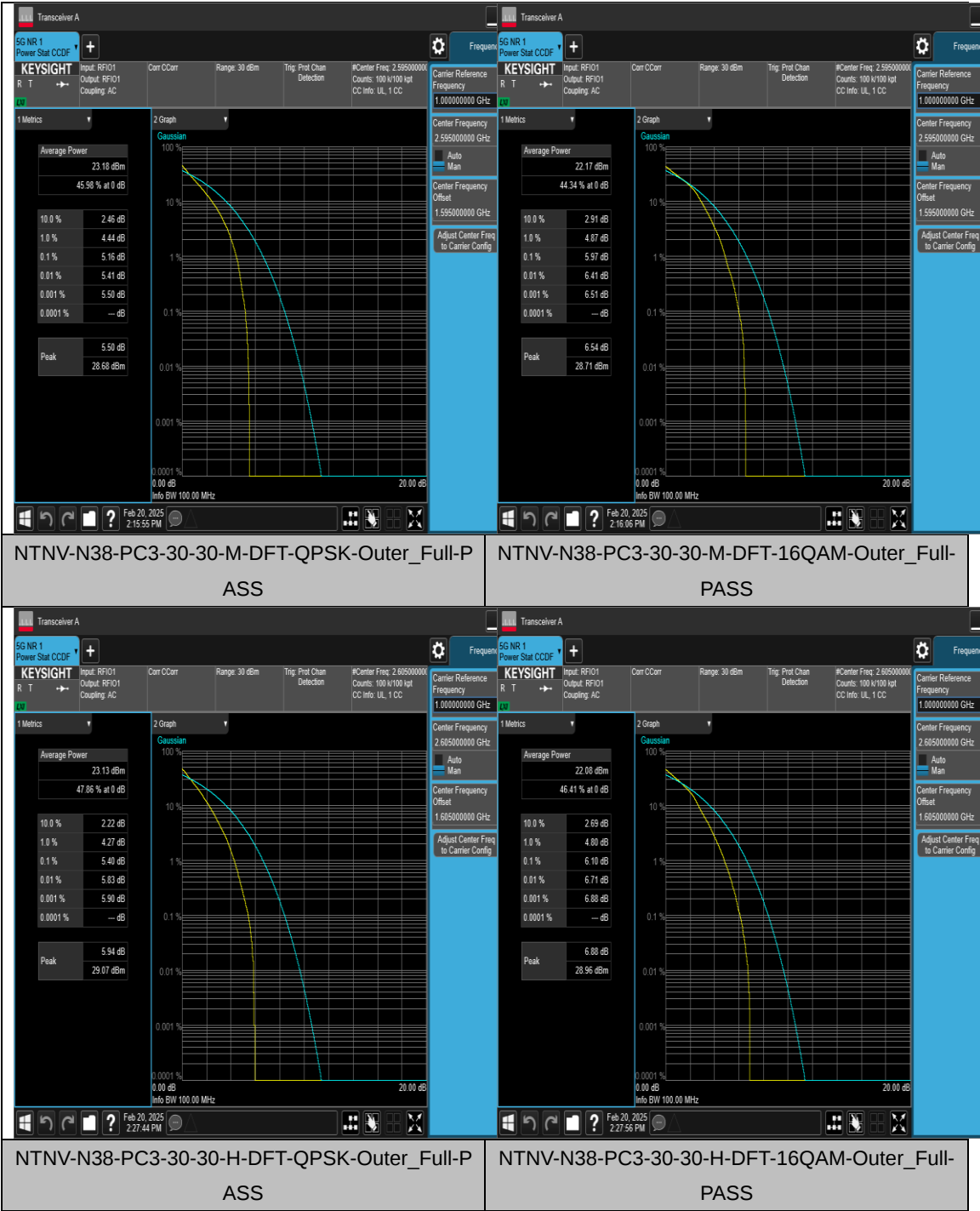


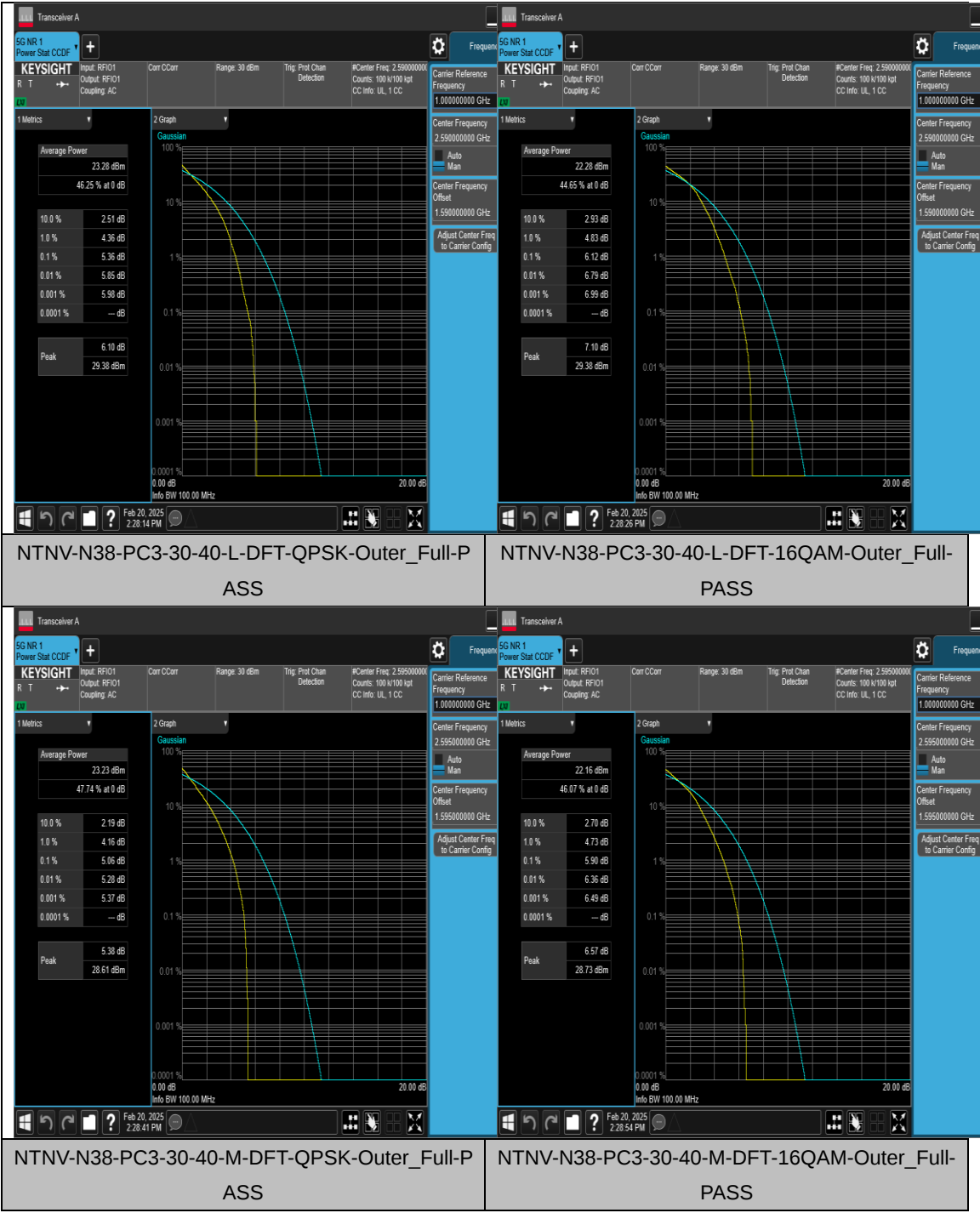


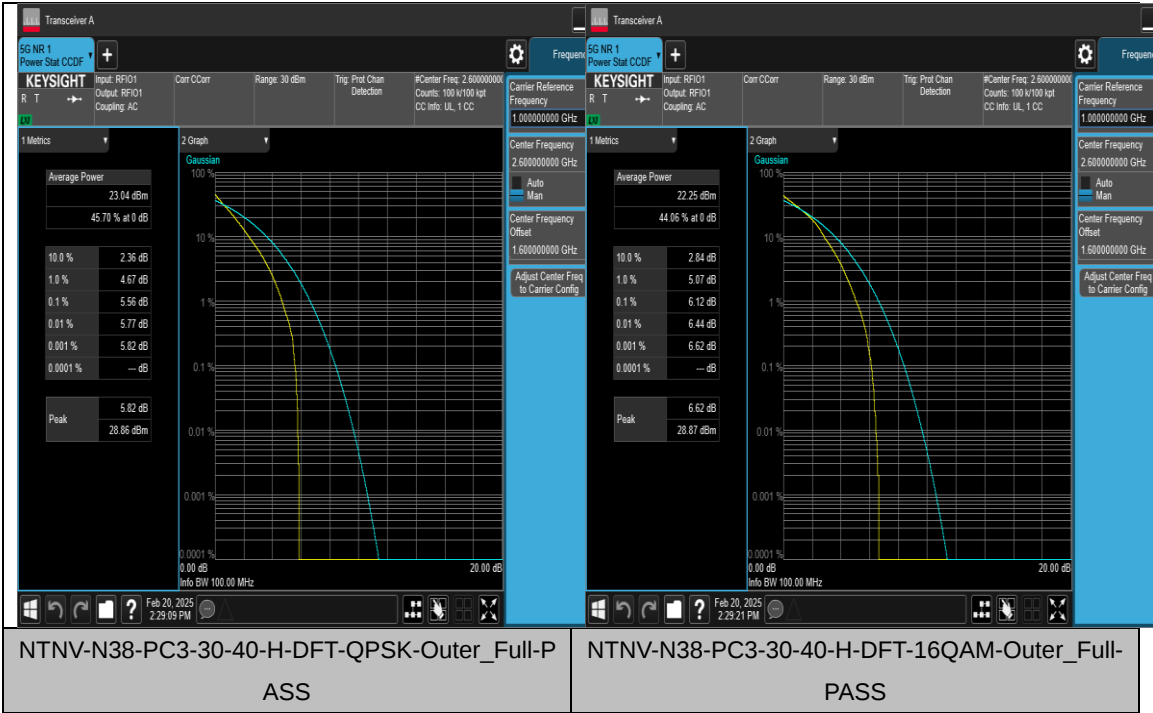










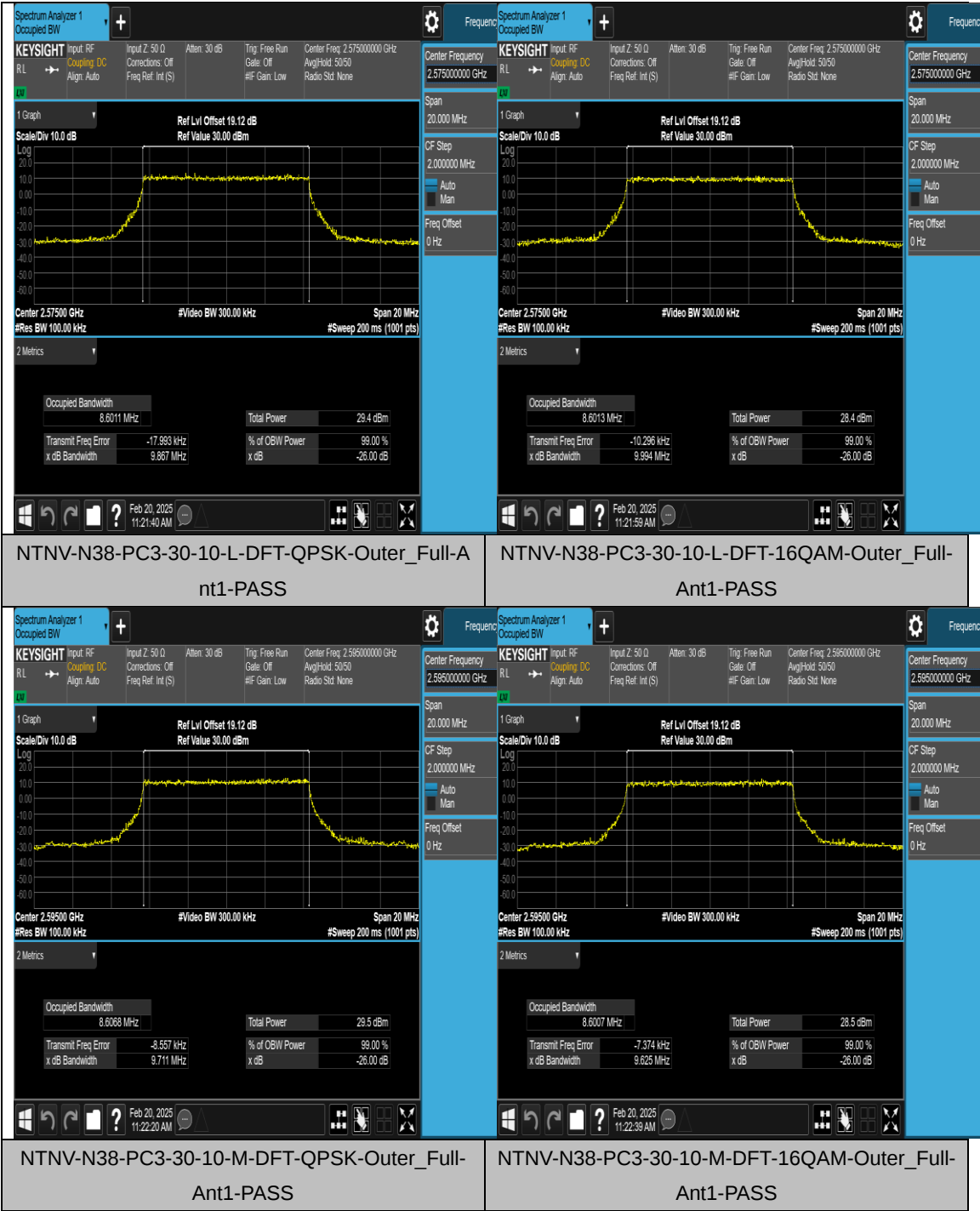


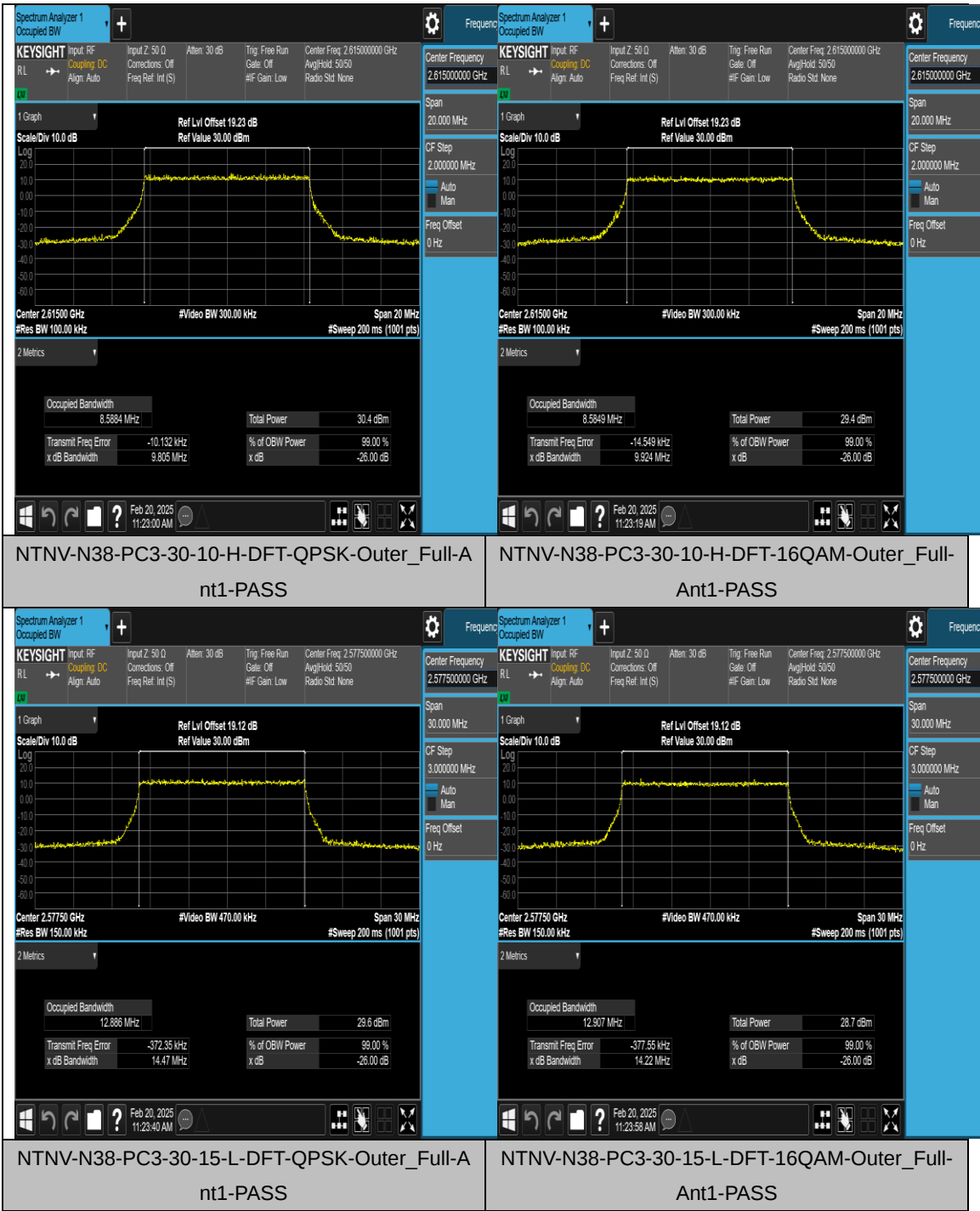
Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

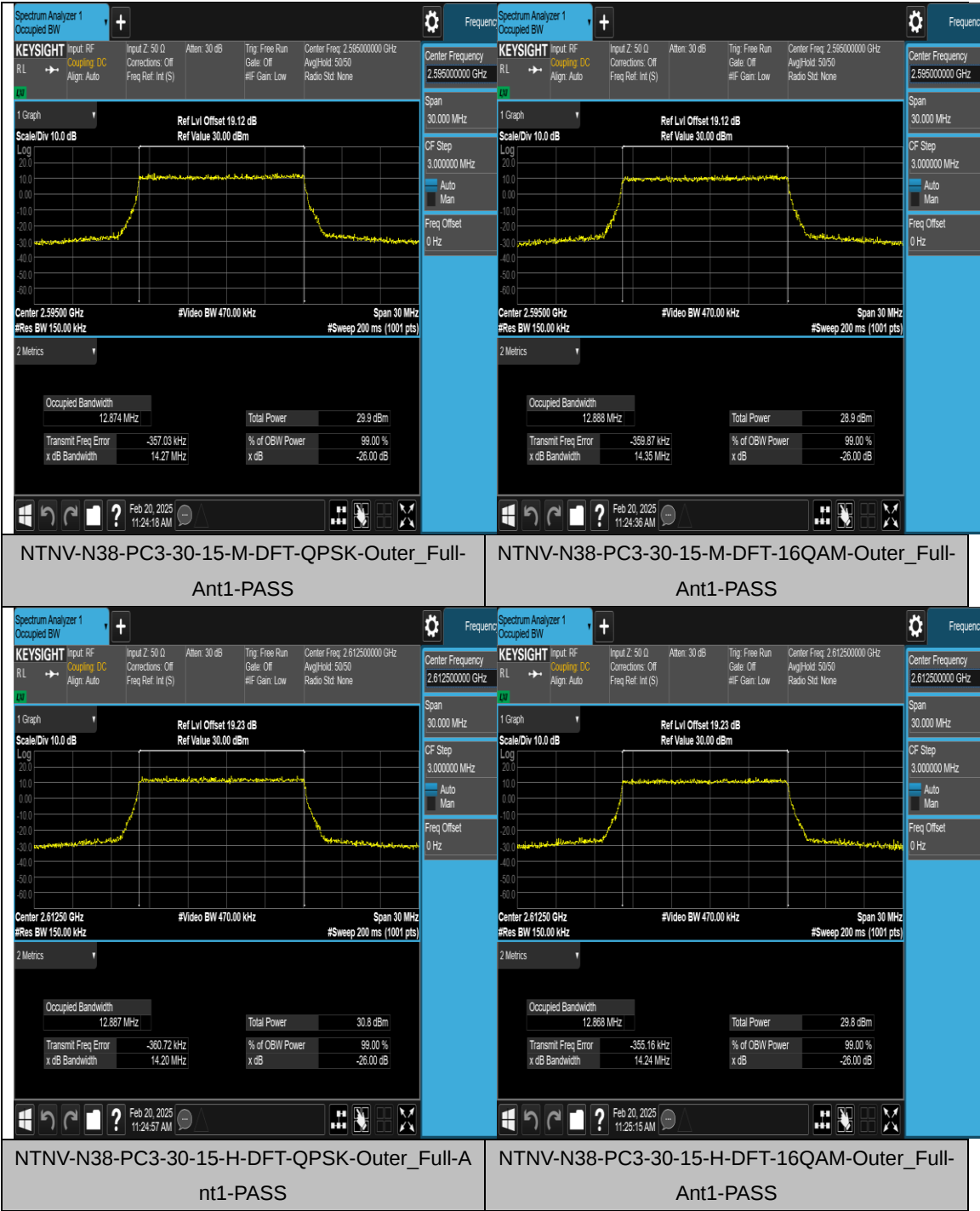
Test Result

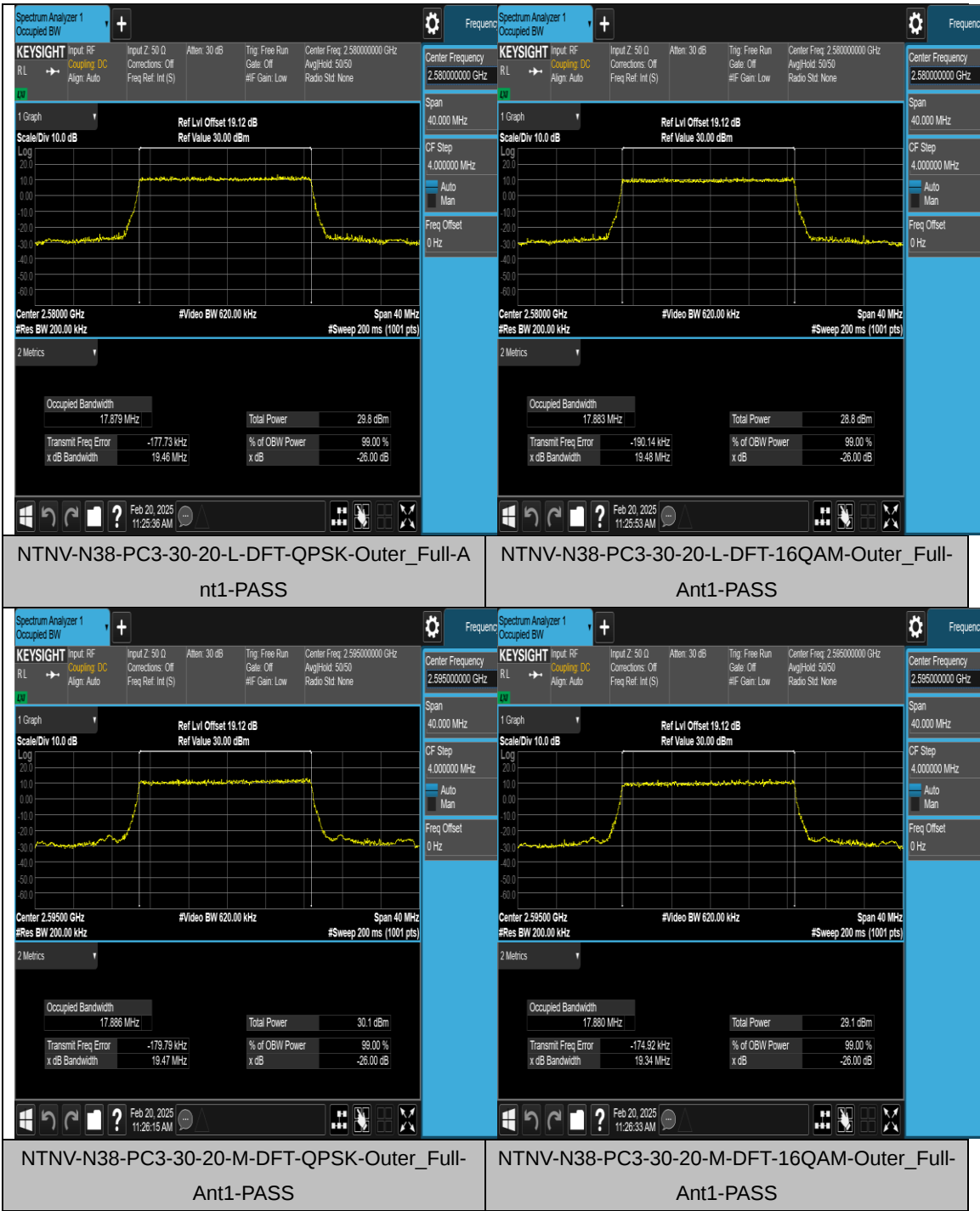
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N38	30	10	DFT-QPSK	L	Outer_Full	8.6011	9.867	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	8.6013	9.994	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	8.6068	9.711	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	8.6007	9.625	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	8.5884	9.805	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	8.5849	9.924	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	12.886	14.47	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	12.907	14.22	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	12.874	14.27	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	12.888	14.35	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	12.887	14.20	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	12.868	14.24	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	17.879	19.46	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	17.883	19.48	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	17.886	19.47	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	17.880	19.34	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	17.870	19.39	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	17.846	19.46	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	26.804	28.77	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	26.806	28.65	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	26.796	28.65	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	26.804	28.78	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	26.808	28.64	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	26.847	28.59	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	35.669	37.85	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	35.720	37.88	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	35.680	37.73	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	35.669	37.75	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	35.719	37.76	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	35.700	37.68	PASS

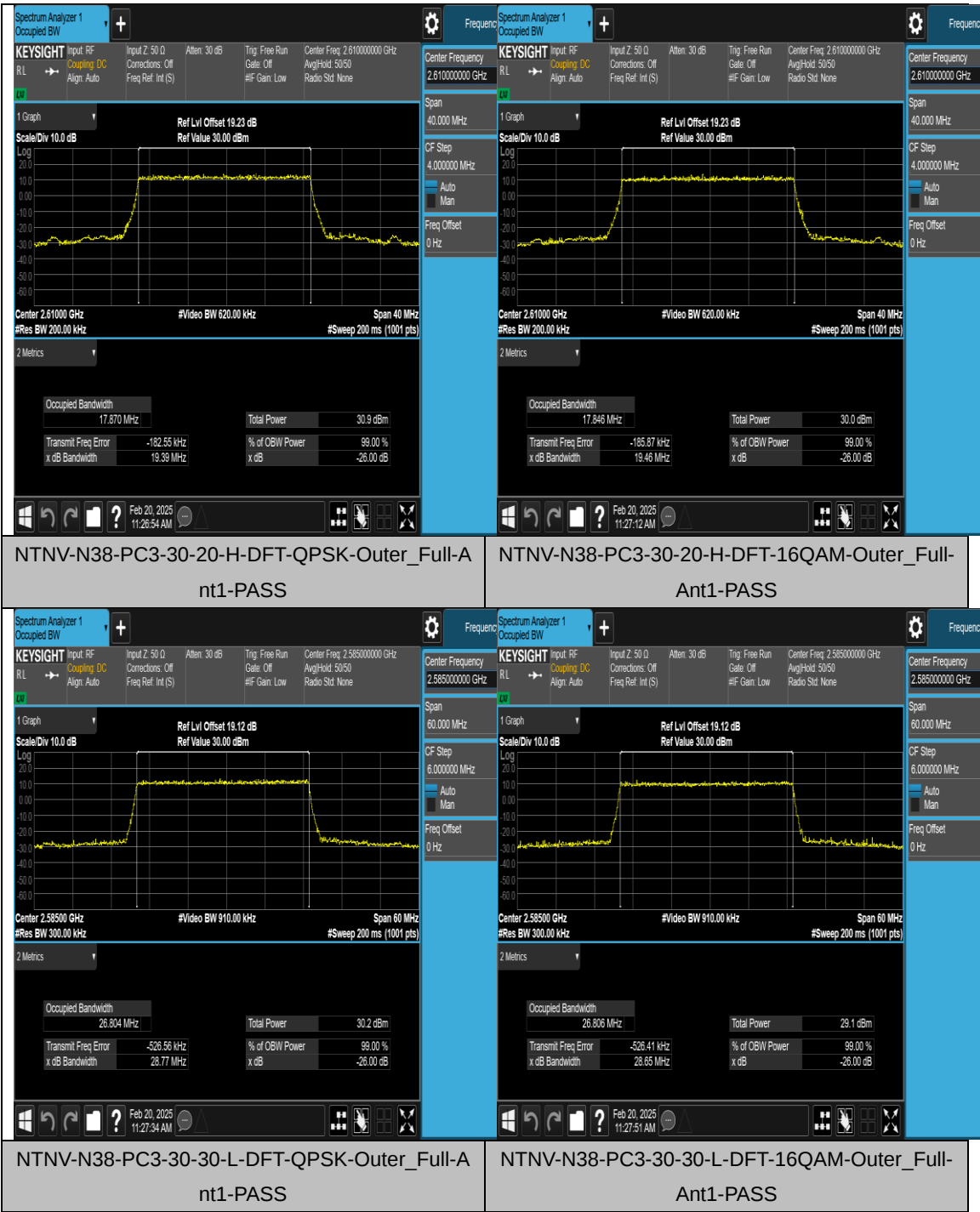
Test Graphs

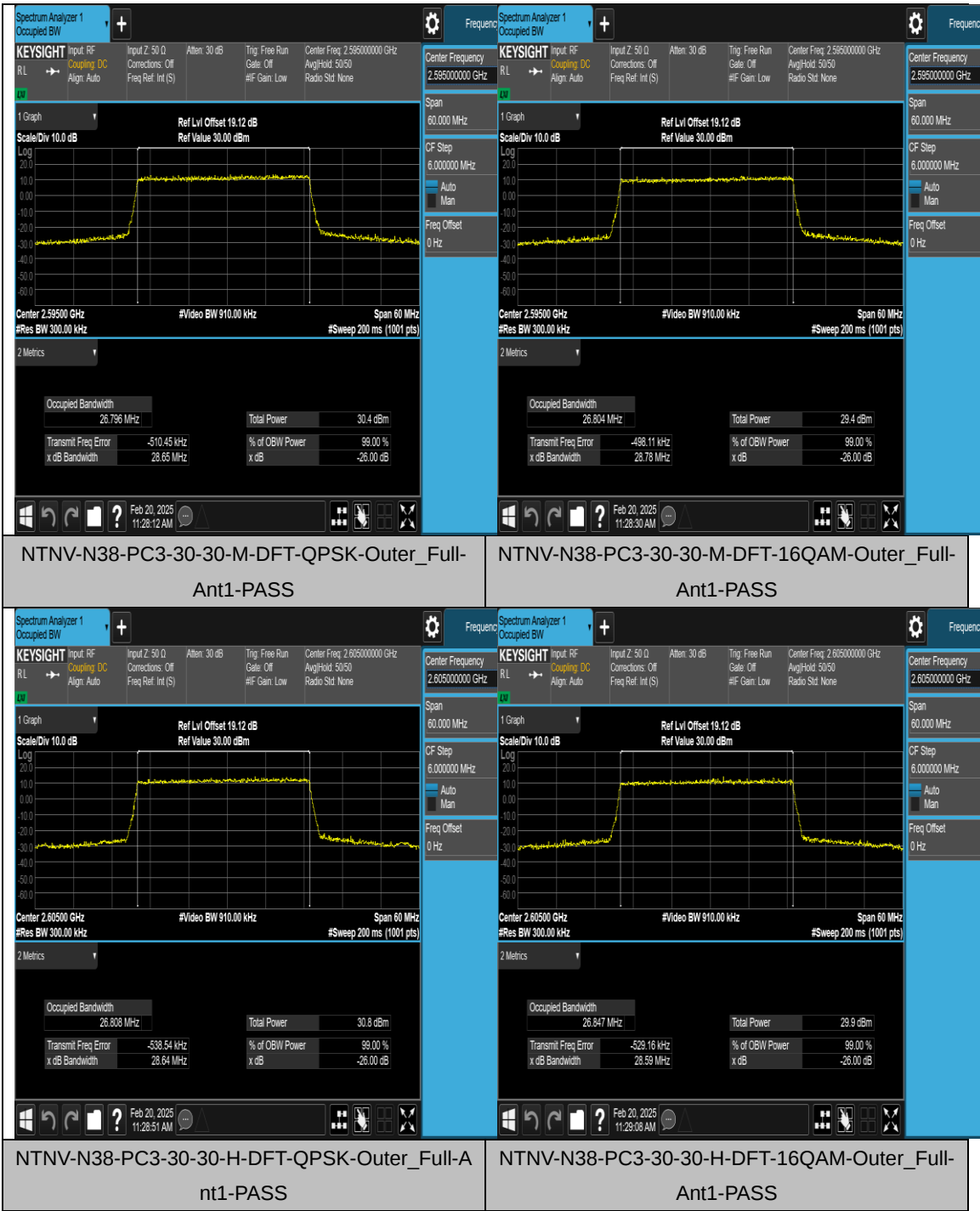


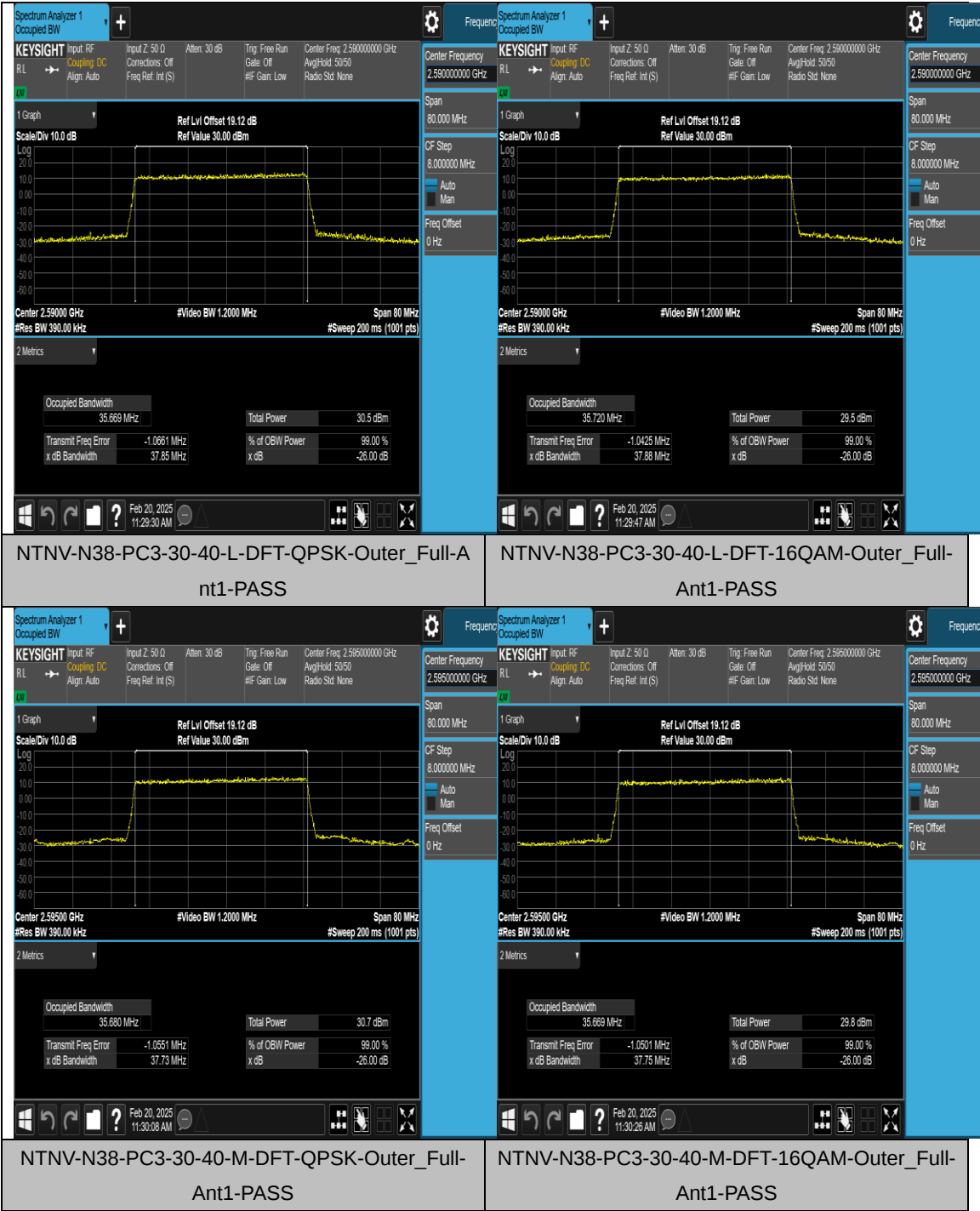


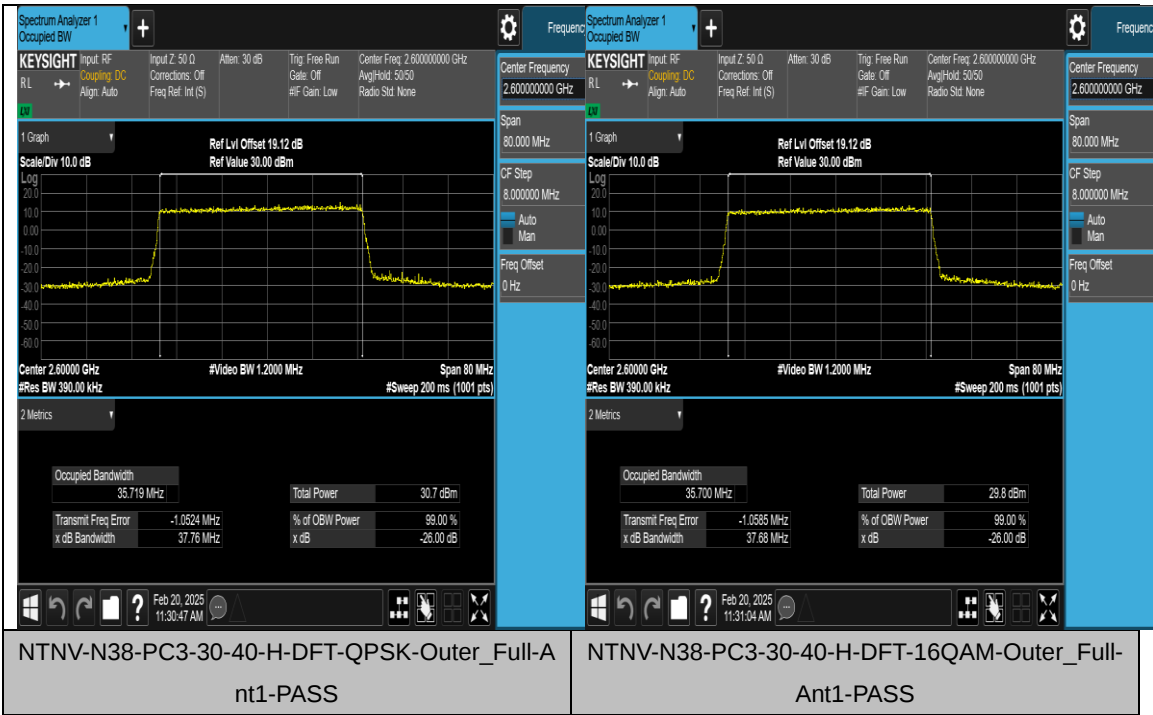












Appendix D: Band Edge for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Margin	Verdict
N38	30	10	DFT-QPSK	L	Outer_Full	-42.90	17.90	PASS
N38	30	10	DFT-QPSK	L	Edge_1RB_Left	-44.16	19.16	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	-40.41	15.41	PASS
N38	30	10	DFT-QPSK	H	Edge_1RB_Right	-43.63	18.63	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	-40.98	15.98	PASS
N38	30	15	DFT-QPSK	L	Edge_1RB_Left	-44.19	19.19	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	-41.10	16.10	PASS
N38	30	15	DFT-QPSK	H	Edge_1RB_Right	-43.51	18.51	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	-41.51	16.51	PASS
N38	30	20	DFT-QPSK	L	Edge_1RB_Left	-44.12	19.12	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	-41.64	16.64	PASS
N38	30	20	DFT-QPSK	H	Edge_1RB_Right	-43.85	18.85	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	-36.72	23.72	PASS
N38	30	30	DFT-QPSK	L	Edge_1RB_Left	-33.08	23.08	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	-42.87	17.87	PASS
N38	30	30	DFT-QPSK	H	Edge_1RB_Right	-43.83	18.83	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	-36.92	23.92	PASS
N38	30	40	DFT-QPSK	L	Edge_1RB_Left	-33.24	23.24	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	-43.03	18.03	PASS
N38	30	40	DFT-QPSK	H	Edge_1RB_Right	-43.96	18.96	PASS

Test Graphs

