

## **Appendix for N41**

Product Name: 5G CPE

Model No: S3

## Appendix A: Average Power Output for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
N41	30	20	CP-QPSK	L	Outer_Full	23.92	PC2	PASS
N41	30	20	CP-QPSK	L	Edge_1RB_Left	24.97	PC2	PASS
N41	30	20	CP-QPSK	L	Inner_Full	26.78	PC2	PASS
N41	30	20	CP-QPSK	L	Edge_1RB_Right	24.77	PC2	PASS
N41	30	20	CP-16QAM	L	Outer_Full	25.21	PC2	PASS
N41	30	20	CP-16QAM	L	Edge_1RB_Left	24.76	PC2	PASS
N41	30	20	CP-16QAM	L	Inner_Full	26.26	PC2	PASS
N41	30	20	CP-16QAM	L	Edge_1RB_Right	24.92	PC2	PASS
N41	30	20	CP-QPSK	M	Outer_Full	23.92	PC2	PASS
N41	30	20	CP-QPSK	M	Edge_1RB_Left	24.43	PC2	PASS
N41	30	20	CP-QPSK	M	Inner_Full	26.31	PC2	PASS
N41	30	20	CP-QPSK	M	Edge_1RB_Right	23.87	PC2	PASS
N41	30	20	CP-16QAM	M	Outer_Full	24.74	PC2	PASS
N41	30	20	CP-16QAM	M	Edge_1RB_Left	24.47	PC2	PASS
N41	30	20	CP-16QAM	M	Inner_Full	25.69	PC2	PASS
N41	30	20	CP-16QAM	M	Edge_1RB_Right	24.25	PC2	PASS
N41	30	20	CP-QPSK	H	Outer_Full	24.18	PC2	PASS
N41	30	20	CP-QPSK	H	Edge_1RB_Left	23.75	PC2	PASS
N41	30	20	CP-QPSK	H	Inner_Full	25.65	PC2	PASS
N41	30	20	CP-QPSK	H	Edge_1RB_Right	23.50	PC2	PASS
N41	30	20	CP-16QAM	H	Outer_Full	24.21	PC2	PASS
N41	30	20	CP-16QAM	H	Edge_1RB_Left	23.53	PC2	PASS
N41	30	20	CP-16QAM	H	Inner_Full	25.19	PC2	PASS
N41	30	20	CP-16QAM	H	Edge_1RB_Right	23.67	PC2	PASS
N41	30	40	CP-QPSK	L	Outer_Full	25.80	PC2	PASS
N41	30	40	CP-QPSK	L	Edge_1RB_Left	25.21	PC2	PASS
N41	30	40	CP-QPSK	L	Inner_Full	27.06	PC2	PASS
N41	30	40	CP-QPSK	L	Edge_1RB_Right	25.81	PC2	PASS
N41	30	40	CP-16QAM	L	Outer_Full	26.03	PC2	PASS
N41	30	40	CP-16QAM	L	Edge_1RB_Left	25.07	PC2	PASS
N41	30	40	CP-16QAM	L	Inner_Full	26.62	PC2	PASS
N41	30	40	CP-16QAM	L	Edge_1RB_Right	25.44	PC2	PASS
N41	30	40	CP-QPSK	M	Outer_Full	24.52	PC2	PASS
N41	30	40	CP-QPSK	M	Edge_1RB_Left	23.95	PC2	PASS
N41	30	40	CP-QPSK	M	Inner_Full	23.08	PC2	PASS

N41	30	40	CP-QPSK	M	Edge_1RB_Right	24.05	PC2	PASS
N41	30	40	CP-16QAM	M	Outer_Full	25.13	PC2	PASS
N41	30	40	CP-16QAM	M	Edge_1RB_Left	25.07	PC2	PASS
N41	30	40	CP-16QAM	M	Inner_Full	25.90	PC2	PASS
N41	30	40	CP-16QAM	M	Edge_1RB_Right	24.10	PC2	PASS
N41	30	40	CP-QPSK	H	Outer_Full	24.31	PC2	PASS
N41	30	40	CP-QPSK	H	Edge_1RB_Left	23.51	PC2	PASS
N41	30	40	CP-QPSK	H	Inner_Full	25.58	PC2	PASS
N41	30	40	CP-QPSK	H	Edge_1RB_Right	23.75	PC2	PASS
N41	30	40	CP-16QAM	H	Outer_Full	24.29	PC2	PASS
N41	30	40	CP-16QAM	H	Edge_1RB_Left	23.68	PC2	PASS
N41	30	40	CP-16QAM	H	Inner_Full	25.05	PC2	PASS
N41	30	40	CP-16QAM	H	Edge_1RB_Right	23.71	PC2	PASS
N41	30	60	CP-QPSK	L	Outer_Full	25.32	PC2	PASS
N41	30	60	CP-QPSK	L	Edge_1RB_Left	24.88	PC2	PASS
N41	30	60	CP-QPSK	L	Inner_Full	26.83	PC2	PASS
N41	30	60	CP-QPSK	L	Edge_1RB_Right	24.63	PC2	PASS
N41	30	60	CP-16QAM	L	Outer_Full	25.37	PC2	PASS
N41	30	60	CP-16QAM	L	Edge_1RB_Left	24.89	PC2	PASS
N41	30	60	CP-16QAM	L	Inner_Full	26.51	PC2	PASS
N41	30	60	CP-16QAM	L	Edge_1RB_Right	24.95	PC2	PASS
N41	30	60	CP-QPSK	M	Outer_Full	24.63	PC2	PASS
N41	30	60	CP-QPSK	M	Edge_1RB_Left	24.73	PC2	PASS
N41	30	60	CP-QPSK	M	Inner_Full	26.25	PC2	PASS
N41	30	60	CP-QPSK	M	Edge_1RB_Right	23.33	PC2	PASS
N41	30	60	CP-16QAM	M	Outer_Full	24.85	PC2	PASS
N41	30	60	CP-16QAM	M	Edge_1RB_Left	24.62	PC2	PASS
N41	30	60	CP-16QAM	M	Inner_Full	25.76	PC2	PASS
N41	30	60	CP-16QAM	M	Edge_1RB_Right	23.11	PC2	PASS
N41	30	60	CP-QPSK	H	Outer_Full	23.67	PC2	PASS
N41	30	60	CP-QPSK	H	Edge_1RB_Left	23.28	PC2	PASS
N41	30	60	CP-QPSK	H	Inner_Full	25.23	PC2	PASS
N41	30	60	CP-QPSK	H	Edge_1RB_Right	23.36	PC2	PASS
N41	30	60	CP-16QAM	H	Outer_Full	23.85	PC2	PASS
N41	30	60	CP-16QAM	H	Edge_1RB_Left	23.48	PC2	PASS
N41	30	60	CP-16QAM	H	Inner_Full	24.72	PC2	PASS
N41	30	60	CP-16QAM	H	Edge_1RB_Right	23.36	PC2	PASS
N41	30	100	CP-QPSK	L	Outer_Full	25.46	PC2	PASS
N41	30	100	CP-QPSK	L	Edge_1RB_Left	24.88	PC2	PASS
N41	30	100	CP-QPSK	L	Inner_Full	26.97	PC2	PASS
N41	30	100	CP-QPSK	L	Edge_1RB_Right	24.02	PC2	PASS
N41	30	100	CP-16QAM	L	Outer_Full	25.29	PC2	PASS

N41	30	100	CP-16QAM	L	Edge_1RB_Left	25.09	PC2	PASS
N41	30	100	CP-16QAM	L	Inner_Full	26.40	PC2	PASS
N41	30	100	CP-16QAM	L	Edge_1RB_Right	23.89	PC2	PASS
N41	30	100	CP-QPSK	M	Outer_Full	24.80	PC2	PASS
N41	30	100	CP-QPSK	M	Edge_1RB_Left	24.78	PC2	PASS
N41	30	100	CP-QPSK	M	Inner_Full	26.25	PC2	PASS
N41	30	100	CP-QPSK	M	Edge_1RB_Right	23.45	PC2	PASS
N41	30	100	CP-16QAM	M	Outer_Full	24.82	PC2	PASS
N41	30	100	CP-16QAM	M	Edge_1RB_Left	24.91	PC2	PASS
N41	30	100	CP-16QAM	M	Inner_Full	25.79	PC2	PASS
N41	30	100	CP-16QAM	M	Edge_1RB_Right	23.16	PC2	PASS
N41	30	100	CP-QPSK	H	Outer_Full	23.85	PC2	PASS
N41	30	100	CP-QPSK	H	Edge_1RB_Left	23.83	PC2	PASS
N41	30	100	CP-QPSK	H	Inner_Full	25.35	PC2	PASS
N41	30	100	CP-QPSK	H	Edge_1RB_Right	23.09	PC2	PASS
N41	30	100	CP-16QAM	H	Outer_Full	23.92	PC2	PASS
N41	30	100	CP-16QAM	H	Edge_1RB_Left	23.96	PC2	PASS
N41	30	100	CP-16QAM	H	Inner_Full	24.69	PC2	PASS
N41	30	100	CP-16QAM	H	Edge_1RB_Right	23.25	PC2	PASS

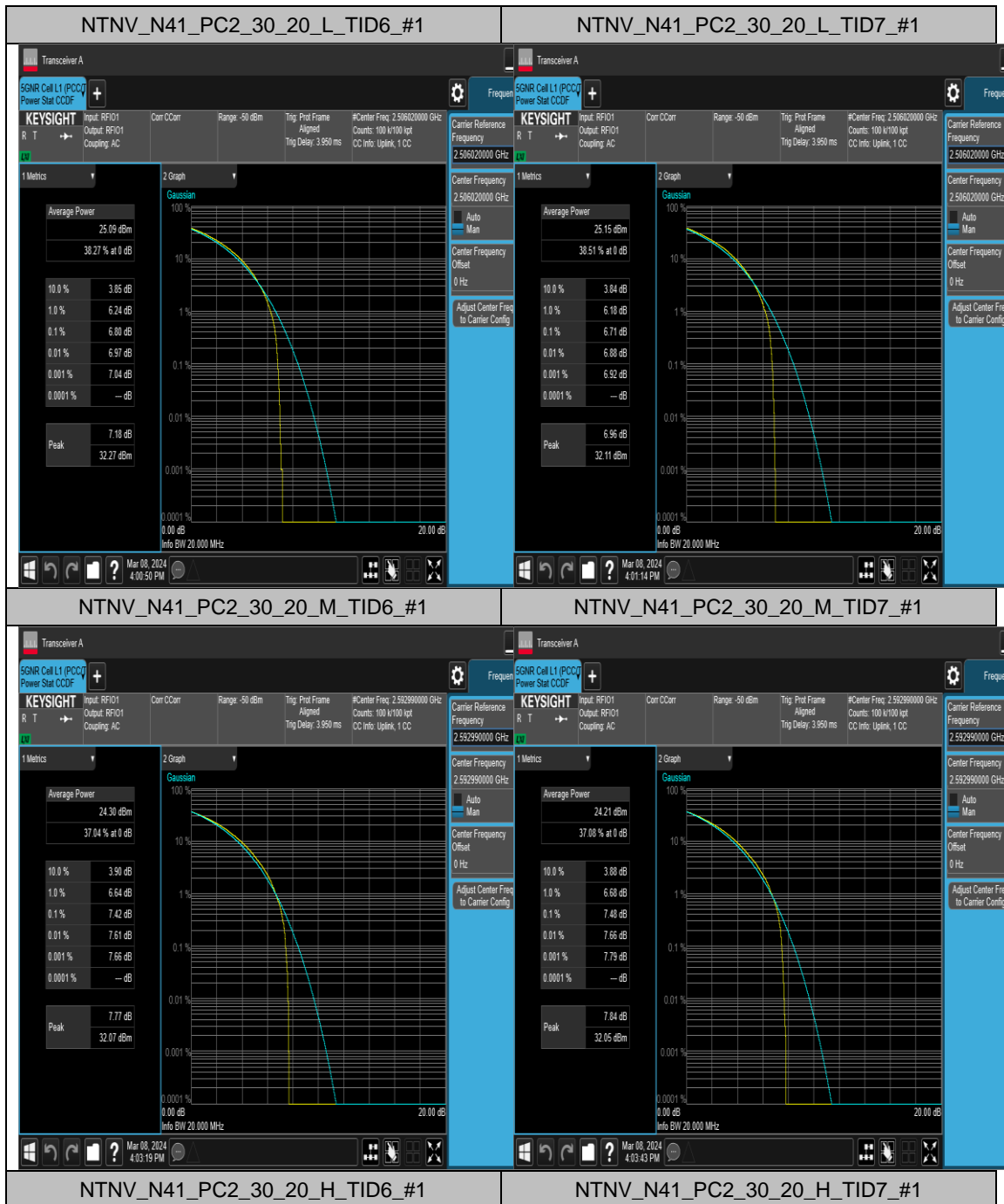
## Appendix B: Peak-to-Average Ratio for SA

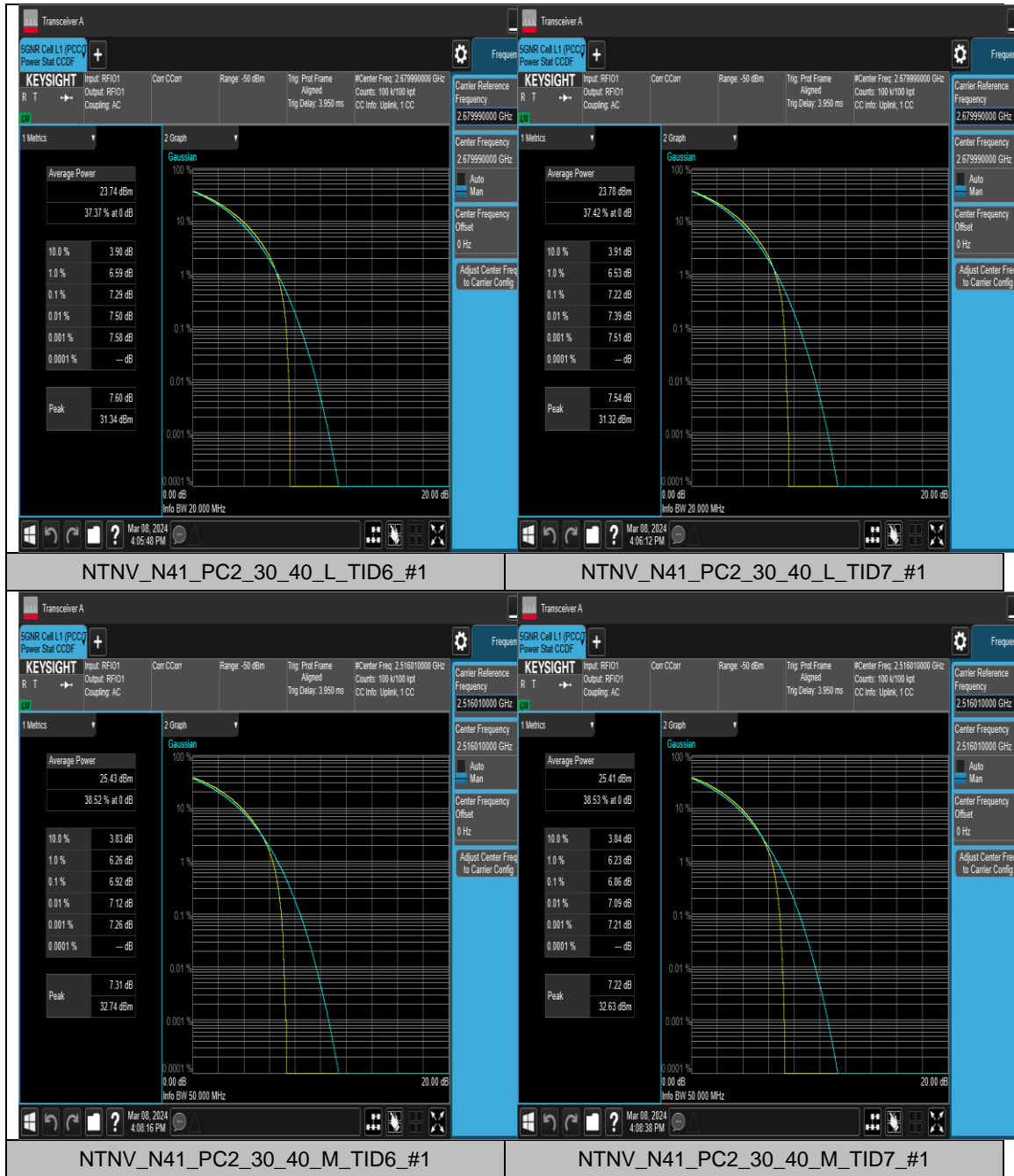
### Peak-to-Average Ratio(CCDF)

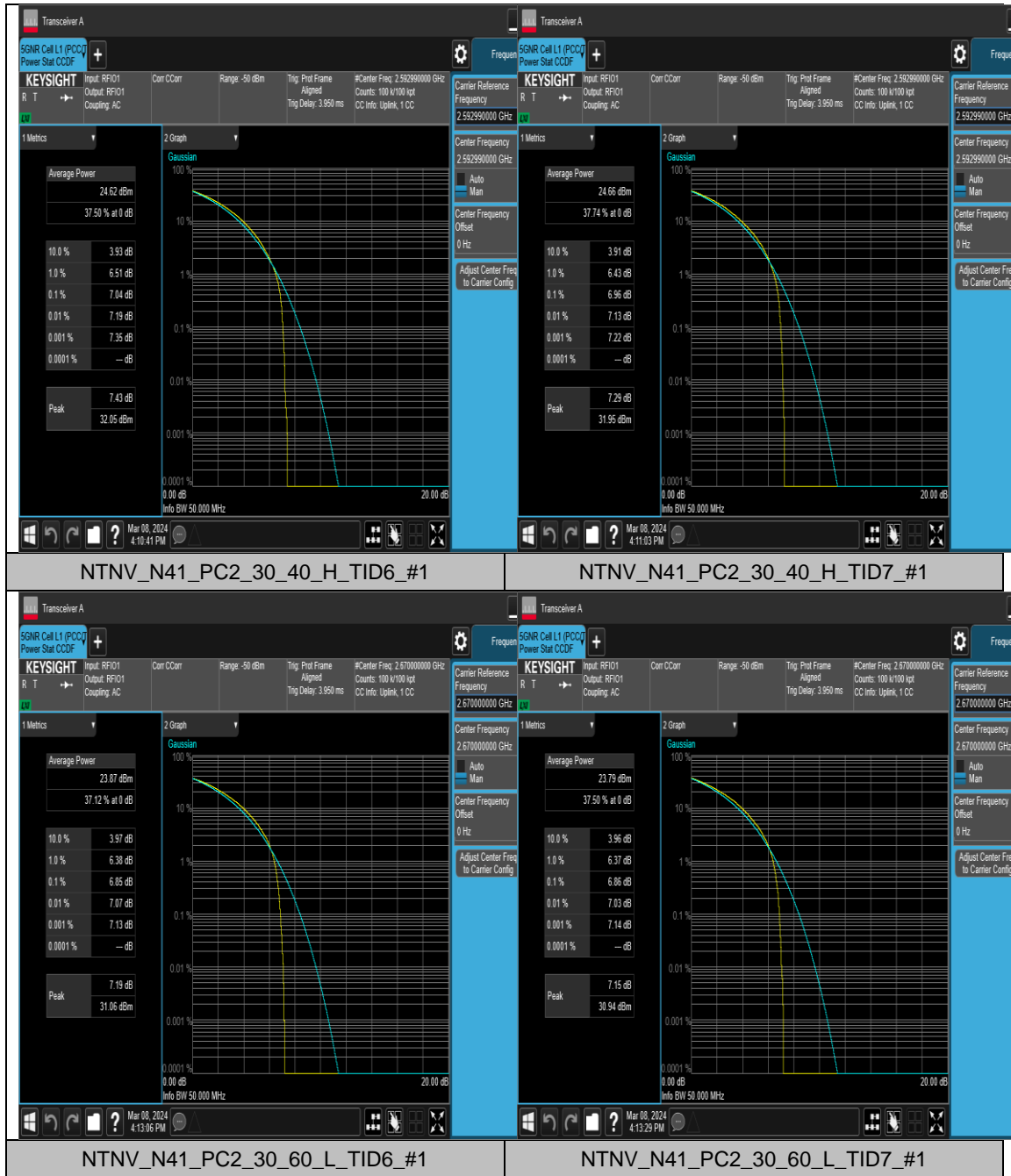
#### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N41	30	20	CP-QPSK	L	Outer_Full	6.80	≤13	PASS
N41	30	20	CP-16QAM	L	Outer_Full	6.71	≤13	PASS
N41	30	20	CP-QPSK	M	Outer_Full	7.42	≤13	PASS
N41	30	20	CP-16QAM	M	Outer_Full	7.48	≤13	PASS
N41	30	20	CP-QPSK	H	Outer_Full	7.29	≤13	PASS
N41	30	20	CP-16QAM	H	Outer_Full	7.22	≤13	PASS
N41	30	40	CP-QPSK	L	Outer_Full	6.92	≤13	PASS
N41	30	40	CP-16QAM	L	Outer_Full	6.86	≤13	PASS
N41	30	40	CP-QPSK	M	Outer_Full	7.04	≤13	PASS
N41	30	40	CP-16QAM	M	Outer_Full	6.96	≤13	PASS
N41	30	40	CP-QPSK	H	Outer_Full	6.85	≤13	PASS
N41	30	40	CP-16QAM	H	Outer_Full	6.86	≤13	PASS
N41	30	60	CP-QPSK	L	Outer_Full	6.99	≤13	PASS
N41	30	60	CP-16QAM	L	Outer_Full	7.03	≤13	PASS
N41	30	60	CP-QPSK	M	Outer_Full	7.44	≤13	PASS
N41	30	60	CP-16QAM	M	Outer_Full	7.38	≤13	PASS
N41	30	60	CP-QPSK	H	Outer_Full	7.33	≤13	PASS
N41	30	60	CP-16QAM	H	Outer_Full	7.21	≤13	PASS
N41	30	100	CP-QPSK	L	Outer_Full	7.32	≤13	PASS
N41	30	100	CP-16QAM	L	Outer_Full	7.26	≤13	PASS
N41	30	100	CP-QPSK	M	Outer_Full	7.27	≤13	PASS
N41	30	100	CP-16QAM	M	Outer_Full	7.23	≤13	PASS
N41	30	100	CP-QPSK	H	Outer_Full	7.47	≤13	PASS
N41	30	100	CP-16QAM	H	Outer_Full	7.51	≤13	PASS

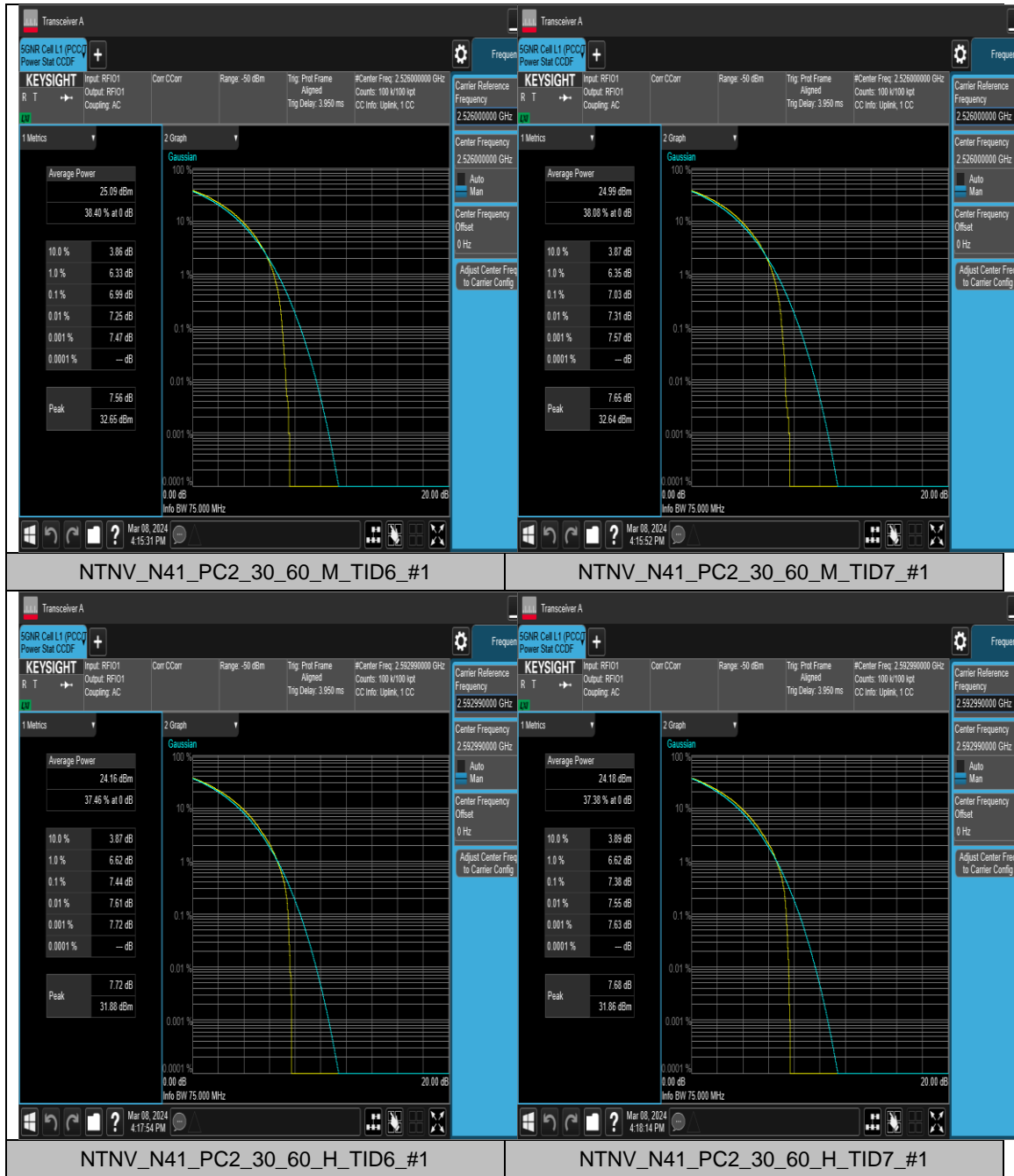
### Test Graphs

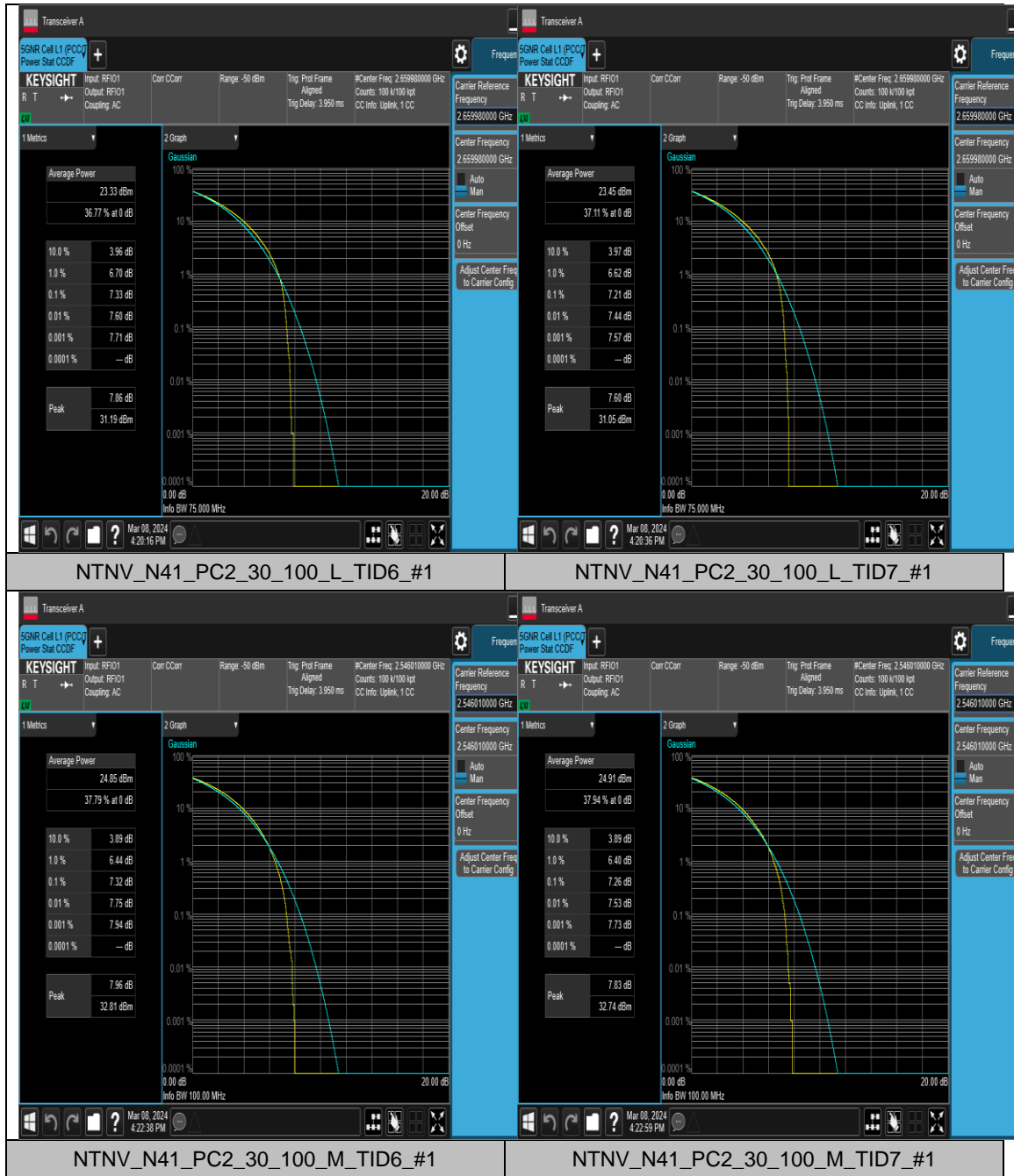


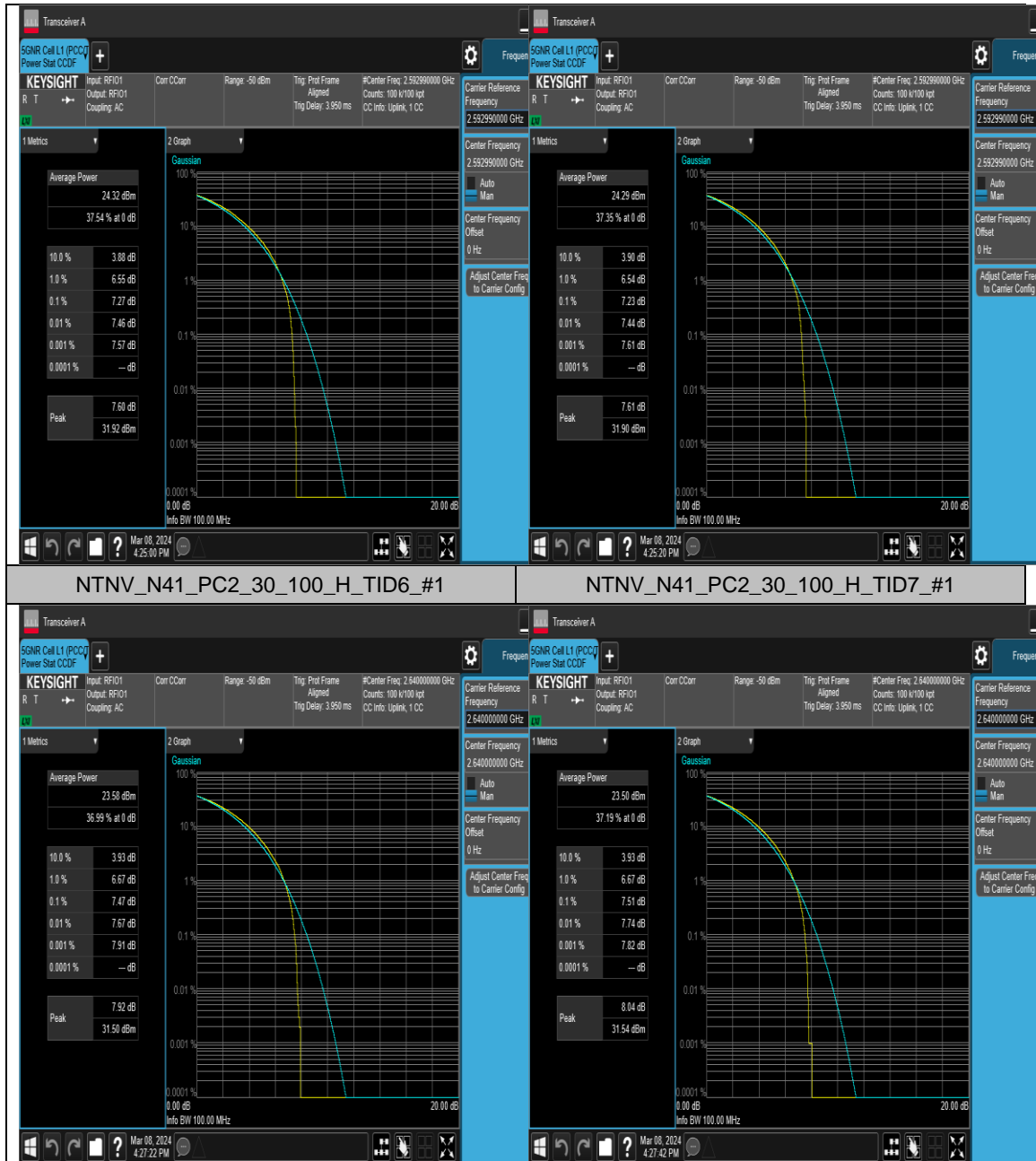










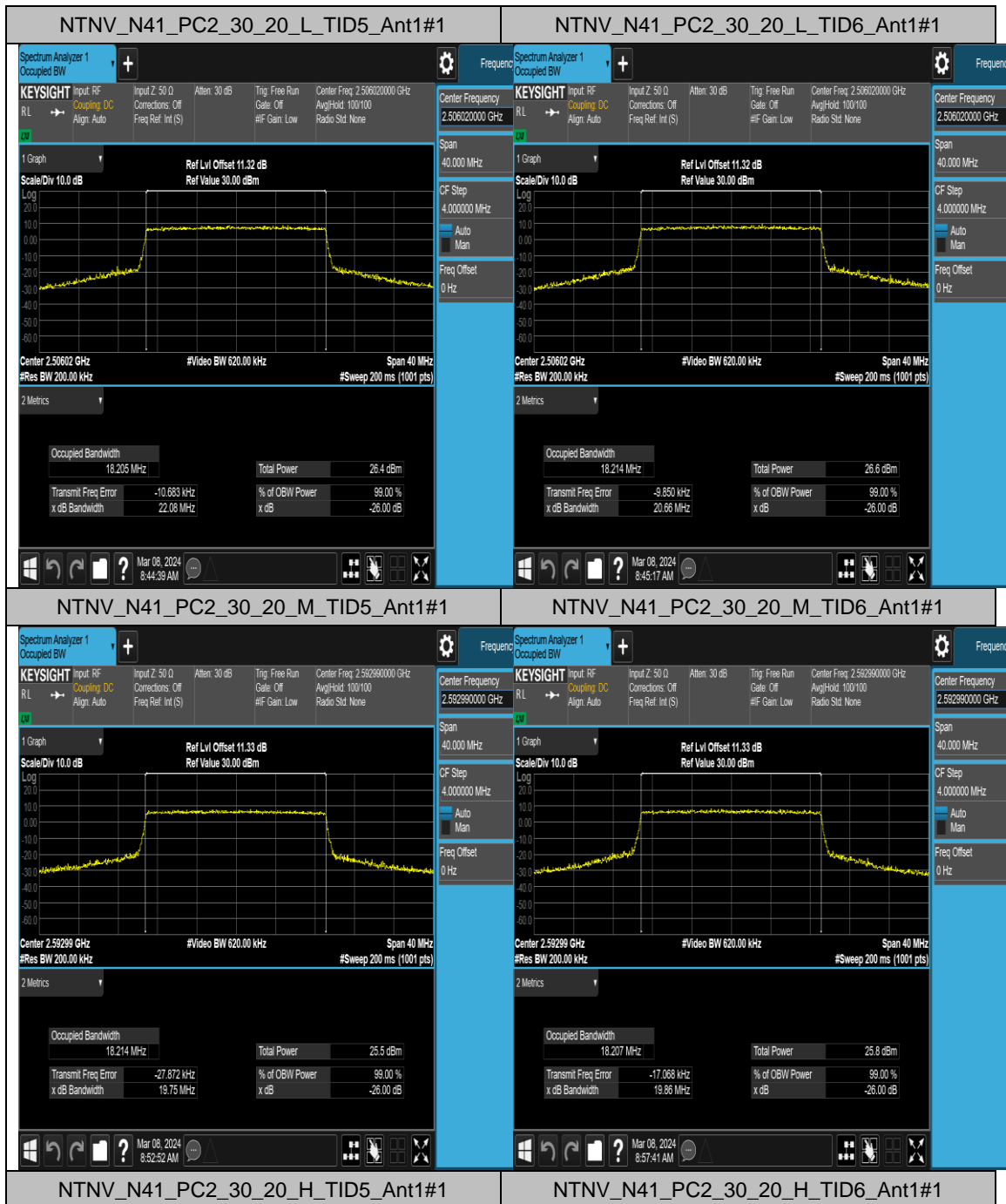


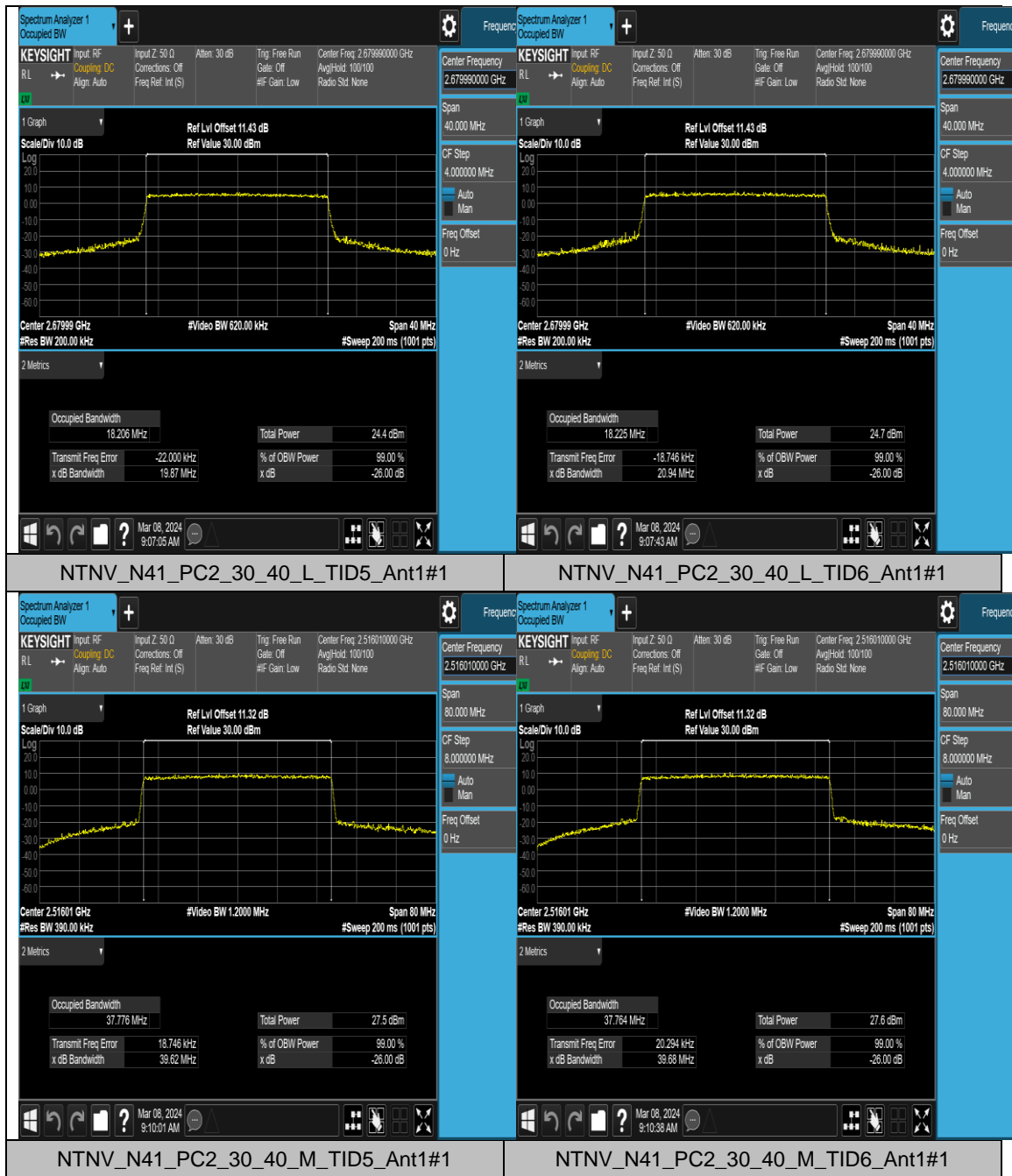
## Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

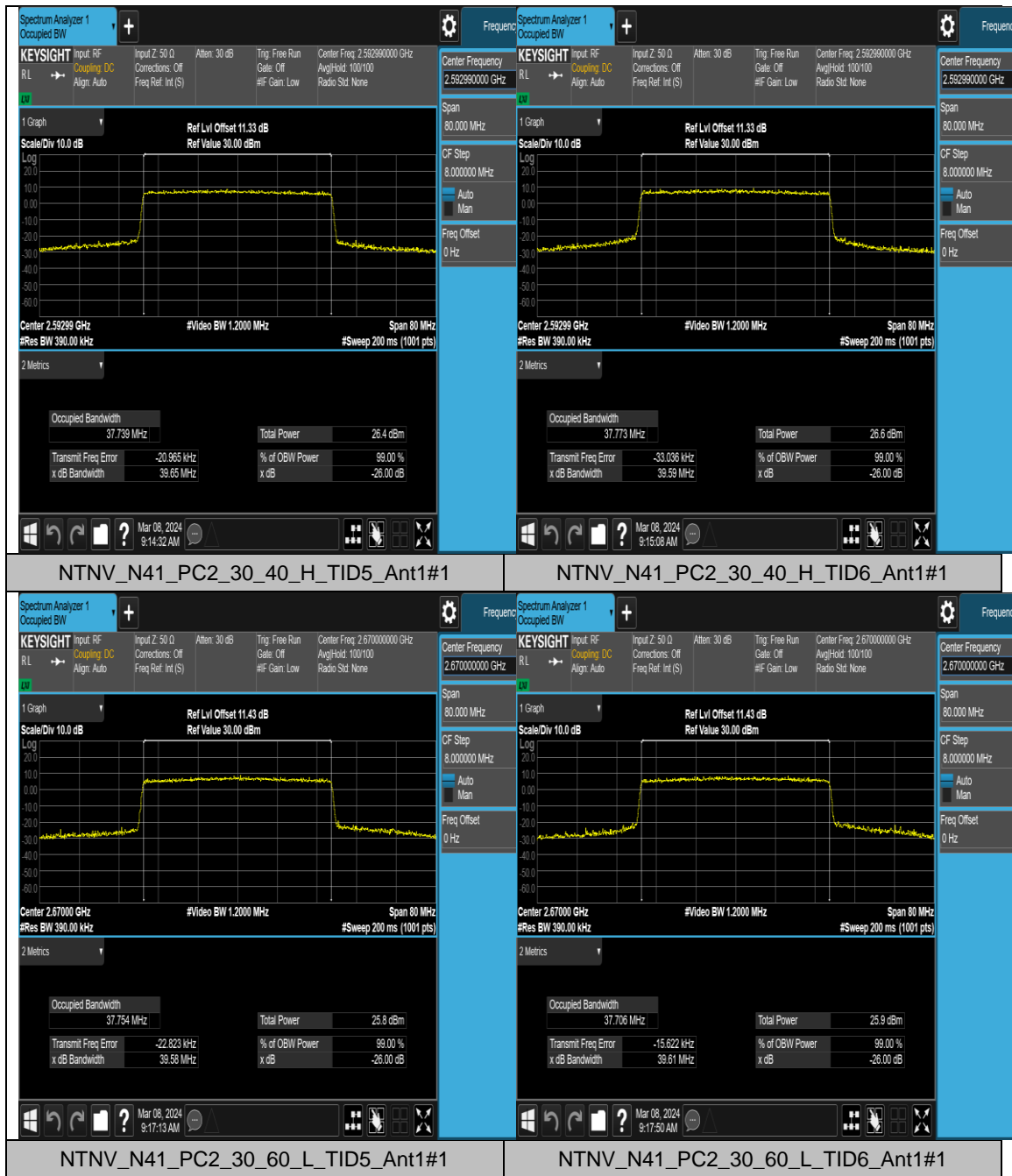
### Test Result

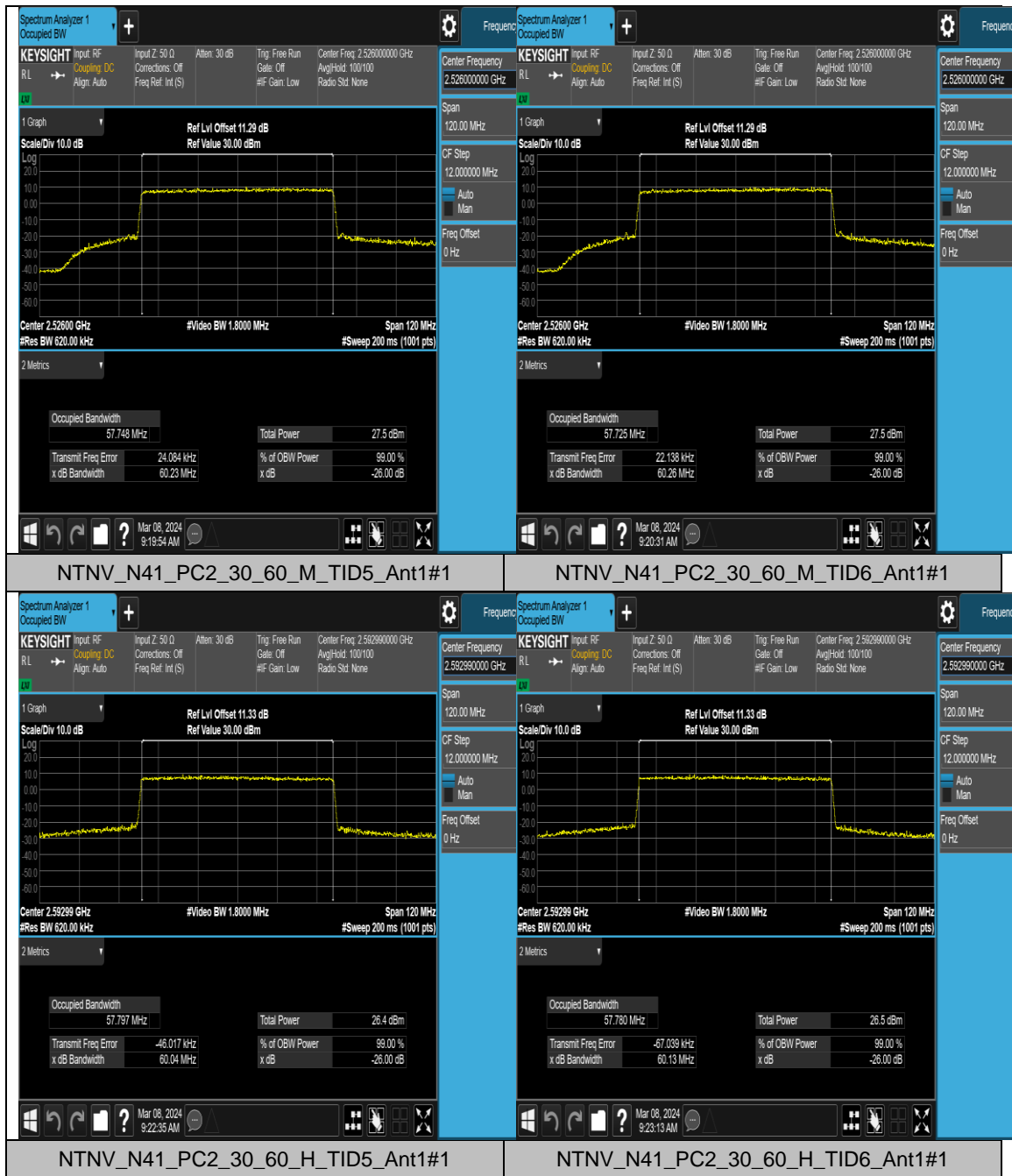
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N41	30	20	CP-QPSK	L	Outer_Full	18.205	22.08	PASS
N41	30	20	CP-16QAM	L	Outer_Full	18.214	20.66	PASS
N41	30	20	CP-QPSK	M	Outer_Full	18.214	19.75	PASS
N41	30	20	CP-16QAM	M	Outer_Full	18.207	19.86	PASS
N41	30	20	CP-QPSK	H	Outer_Full	18.206	19.87	PASS
N41	30	20	CP-16QAM	H	Outer_Full	18.225	20.94	PASS
N41	30	40	CP-QPSK	L	Outer_Full	37.776	39.62	PASS
N41	30	40	CP-16QAM	L	Outer_Full	37.764	39.68	PASS
N41	30	40	CP-QPSK	M	Outer_Full	37.739	39.65	PASS
N41	30	40	CP-16QAM	M	Outer_Full	37.773	39.59	PASS
N41	30	40	CP-QPSK	H	Outer_Full	37.754	39.58	PASS
N41	30	40	CP-16QAM	H	Outer_Full	37.706	39.61	PASS
N41	30	60	CP-QPSK	L	Outer_Full	57.748	60.23	PASS
N41	30	60	CP-16QAM	L	Outer_Full	57.725	60.26	PASS
N41	30	60	CP-QPSK	M	Outer_Full	57.797	60.04	PASS
N41	30	60	CP-16QAM	M	Outer_Full	57.780	60.13	PASS
N41	30	60	CP-QPSK	H	Outer_Full	57.733	60.16	PASS
N41	30	60	CP-16QAM	H	Outer_Full	57.769	60.10	PASS
N41	30	100	CP-QPSK	L	Outer_Full	97.194	100.8	PASS
N41	30	100	CP-16QAM	L	Outer_Full	97.112	100.8	PASS
N41	30	100	CP-QPSK	M	Outer_Full	97.148	100.7	PASS
N41	30	100	CP-16QAM	M	Outer_Full	97.143	100.8	PASS
N41	30	100	CP-QPSK	H	Outer_Full	97.264	100.8	PASS
N41	30	100	CP-16QAM	H	Outer_Full	97.276	100.9	PASS

### Test Graphs

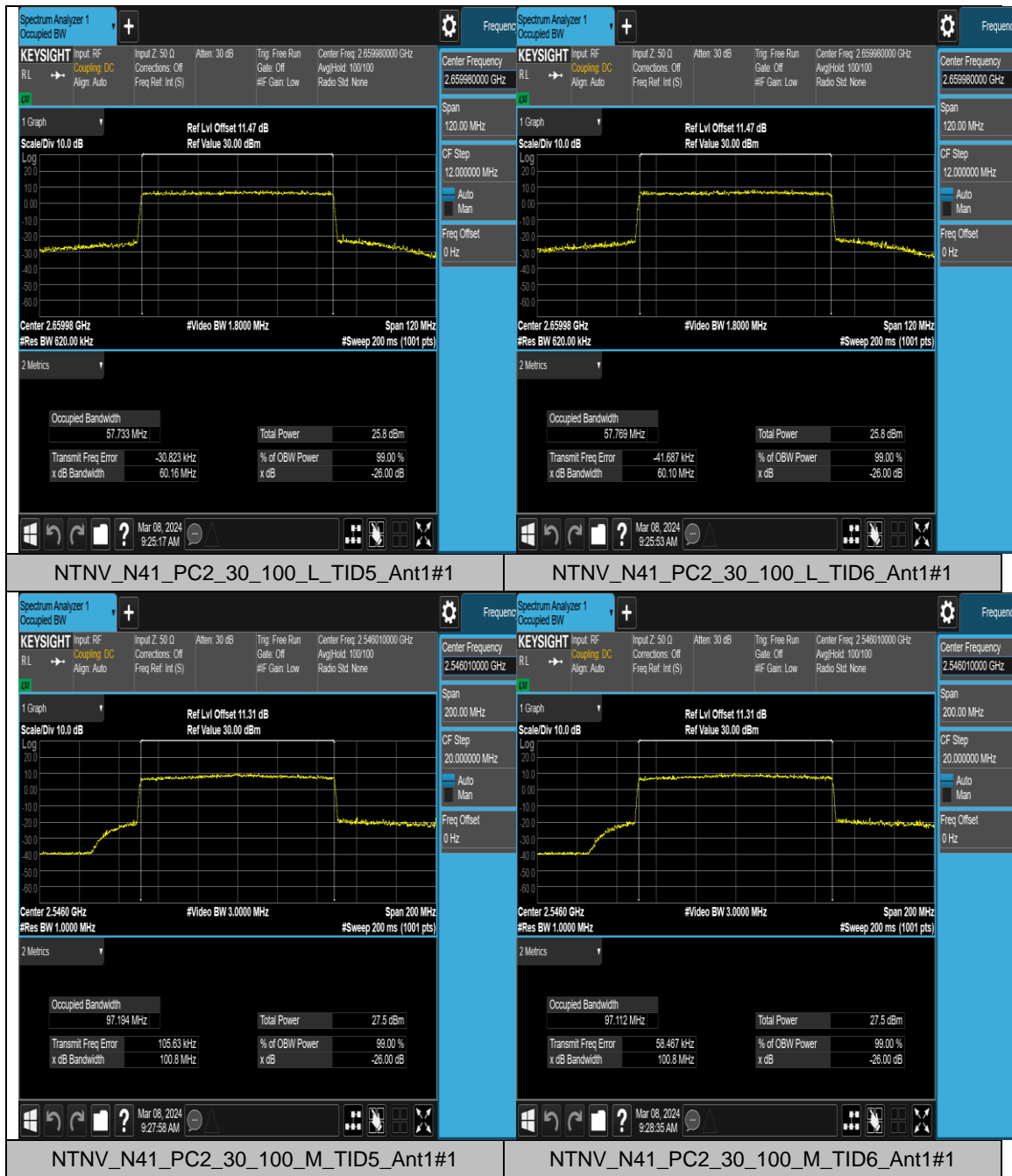














## Appendix D: Band Edge for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Verdict
N41	30	20	CP-QPSK	L	Outer_Full	PASS
N41	30	20	CP-QPSK	L	Outer_Full	PASS
N41	30	20	CP-QPSK	L	Edge_1RB_Left	PASS
N41	30	20	CP-16QAM	L	Outer_Full	PASS
N41	30	20	CP-16QAM	L	Edge_1RB_Left	PASS
N41	30	20	CP-QPSK	H	Outer_Full	PASS
N41	30	20	CP-QPSK	H	Edge_1RB_Right	PASS
N41	30	20	CP-16QAM	H	Outer_Full	PASS
N41	30	20	CP-16QAM	H	Edge_1RB_Right	PASS
N41	30	40	CP-QPSK	L	Outer_Full	PASS
N41	30	40	CP-QPSK	L	Edge_1RB_Left	PASS
N41	30	40	CP-16QAM	L	Outer_Full	PASS
N41	30	40	CP-16QAM	L	Edge_1RB_Left	PASS
N41	30	40	CP-QPSK	H	Outer_Full	PASS
N41	30	40	CP-QPSK	H	Edge_1RB_Right	PASS
N41	30	40	CP-16QAM	H	Outer_Full	PASS
N41	30	40	CP-16QAM	H	Edge_1RB_Right	PASS
N41	30	60	CP-QPSK	L	Outer_Full	PASS
N41	30	60	CP-QPSK	L	Edge_1RB_Left	PASS
N41	30	60	CP-16QAM	L	Outer_Full	PASS
N41	30	60	CP-16QAM	L	Edge_1RB_Left	PASS
N41	30	60	CP-QPSK	H	Outer_Full	PASS
N41	30	60	CP-QPSK	H	Edge_1RB_Right	PASS
N41	30	60	CP-16QAM	H	Outer_Full	PASS
N41	30	60	CP-16QAM	H	Edge_1RB_Right	PASS
N41	30	100	CP-QPSK	L	Outer_Full	PASS
N41	30	100	CP-QPSK	L	Edge_1RB_Left	PASS
N41	30	100	CP-16QAM	L	Outer_Full	PASS
N41	30	100	CP-16QAM	L	Edge_1RB_Left	PASS
N41	30	100	CP-QPSK	H	Outer_Full	PASS
N41	30	100	CP-QPSK	H	Edge_1RB_Right	PASS
N41	30	100	CP-16QAM	H	Outer_Full	PASS
N41	30	100	CP-16QAM	H	Edge_1RB_Right	PASS

### Test Graphs

