

Appendix for N38

Product Name: 5G Window CPE
Model No: TITAN 5100

Appendix A: Average Power Output Data

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
N38	30	10	DFT-QPSK	L	Outer_Full	21.28	PC3	PASS
N38	30	10	DFT-QPSK	L	Inner_Full	22.28	PC3	PASS
N38	30	10	DFT-QPSK	L	Edge_1RB_Left	21.06	PC3	PASS
N38	30	10	DFT-QPSK	L	Edge_1RB_Right	21.12	PC3	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	20.24	PC3	PASS
N38	30	10	DFT-16QAM	L	Inner_Full	21.31	PC3	PASS
N38	30	10	DFT-16QAM	L	Edge_1RB_Left	20.34	PC3	PASS
N38	30	10	DFT-16QAM	L	Edge_1RB_Right	19.85	PC3	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	20.88	PC3	PASS
N38	30	10	DFT-QPSK	M	Inner_Full	21.94	PC3	PASS
N38	30	10	DFT-QPSK	M	Edge_1RB_Left	20.94	PC3	PASS
N38	30	10	DFT-QPSK	M	Edge_1RB_Right	20.98	PC3	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	19.96	PC3	PASS
N38	30	10	DFT-16QAM	M	Inner_Full	21.08	PC3	PASS
N38	30	10	DFT-16QAM	M	Edge_1RB_Left	19.95	PC3	PASS
N38	30	10	DFT-16QAM	M	Edge_1RB_Right	19.70	PC3	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	21.66	PC3	PASS
N38	30	10	DFT-QPSK	H	Inner_Full	22.60	PC3	PASS
N38	30	10	DFT-QPSK	H	Edge_1RB_Left	21.43	PC3	PASS
N38	30	10	DFT-QPSK	H	Edge_1RB_Right	21.78	PC3	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	20.67	PC3	PASS
N38	30	10	DFT-16QAM	H	Inner_Full	21.68	PC3	PASS
N38	30	10	DFT-16QAM	H	Edge_1RB_Left	20.89	PC3	PASS
N38	30	10	DFT-16QAM	H	Edge_1RB_Right	20.68	PC3	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	21.34	PC3	PASS
N38	30	15	DFT-QPSK	L	Inner_Full	22.30	PC3	PASS
N38	30	15	DFT-QPSK	L	Edge_1RB_Left	21.36	PC3	PASS
N38	30	15	DFT-QPSK	L	Edge_1RB_Right	21.15	PC3	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	20.32	PC3	PASS
N38	30	15	DFT-16QAM	L	Inner_Full	21.24	PC3	PASS
N38	30	15	DFT-16QAM	L	Edge_1RB_Left	20.19	PC3	PASS
N38	30	15	DFT-16QAM	L	Edge_1RB_Right	20.28	PC3	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	21.12	PC3	PASS
N38	30	15	DFT-QPSK	M	Inner_Full	22.13	PC3	PASS
N38	30	15	DFT-QPSK	M	Edge_1RB_Left	20.97	PC3	PASS

Waltek Testing Group (Shenzhen) Co., Ltd.

[Http://www.waltek.com.cn](http://www.waltek.com.cn)

N38	30	15	DFT-QPSK	M	Edge_1RB_Right	21.18	PC3	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	19.98	PC3	PASS
N38	30	15	DFT-16QAM	M	Inner_Full	21.10	PC3	PASS
N38	30	15	DFT-16QAM	M	Edge_1RB_Left	20.19	PC3	PASS
N38	30	15	DFT-16QAM	M	Edge_1RB_Right	20.16	PC3	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	21.61	PC3	PASS
N38	30	15	DFT-QPSK	H	Inner_Full	22.67	PC3	PASS
N38	30	15	DFT-QPSK	H	Edge_1RB_Left	21.65	PC3	PASS
N38	30	15	DFT-QPSK	H	Edge_1RB_Right	21.70	PC3	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	20.59	PC3	PASS
N38	30	15	DFT-16QAM	H	Inner_Full	21.69	PC3	PASS
N38	30	15	DFT-16QAM	H	Edge_1RB_Left	20.32	PC3	PASS
N38	30	15	DFT-16QAM	H	Edge_1RB_Right	20.40	PC3	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	21.18	PC3	PASS
N38	30	20	DFT-QPSK	L	Inner_Full	22.34	PC3	PASS
N38	30	20	DFT-QPSK	L	Edge_1RB_Left	21.03	PC3	PASS
N38	30	20	DFT-QPSK	L	Edge_1RB_Right	21.03	PC3	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	20.16	PC3	PASS
N38	30	20	DFT-16QAM	L	Inner_Full	21.35	PC3	PASS
N38	30	20	DFT-16QAM	L	Edge_1RB_Left	20.02	PC3	PASS
N38	30	20	DFT-16QAM	L	Edge_1RB_Right	20.12	PC3	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	21.02	PC3	PASS
N38	30	20	DFT-QPSK	M	Inner_Full	22.06	PC3	PASS
N38	30	20	DFT-QPSK	M	Edge_1RB_Left	21.04	PC3	PASS
N38	30	20	DFT-QPSK	M	Edge_1RB_Right	21.21	PC3	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	20.01	PC3	PASS
N38	30	20	DFT-16QAM	M	Inner_Full	21.06	PC3	PASS
N38	30	20	DFT-16QAM	M	Edge_1RB_Left	20.04	PC3	PASS
N38	30	20	DFT-16QAM	M	Edge_1RB_Right	20.31	PC3	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	21.47	PC3	PASS
N38	30	20	DFT-QPSK	H	Inner_Full	22.50	PC3	PASS
N38	30	20	DFT-QPSK	H	Edge_1RB_Left	21.28	PC3	PASS
N38	30	20	DFT-QPSK	H	Edge_1RB_Right	21.60	PC3	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	20.48	PC3	PASS
N38	30	20	DFT-16QAM	H	Inner_Full	21.53	PC3	PASS
N38	30	20	DFT-16QAM	H	Edge_1RB_Left	20.38	PC3	PASS
N38	30	20	DFT-16QAM	H	Edge_1RB_Right	20.26	PC3	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	21.30	PC3	PASS
N38	30	30	DFT-QPSK	L	Inner_Full	22.21	PC3	PASS
N38	30	30	DFT-QPSK	L	Edge_1RB_Left	20.88	PC3	PASS
N38	30	30	DFT-QPSK	L	Edge_1RB_Right	21.25	PC3	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	20.26	PC3	PASS

N38	30	30	DFT-16QAM	L	Inner_Full	21.14	PC3	PASS
N38	30	30	DFT-16QAM	L	Edge_1RB_Left	19.95	PC3	PASS
N38	30	30	DFT-16QAM	L	Edge_1RB_Right	20.14	PC3	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	21.37	PC3	PASS
N38	30	30	DFT-QPSK	M	Inner_Full	22.08	PC3	PASS
N38	30	30	DFT-QPSK	M	Edge_1RB_Left	20.76	PC3	PASS
N38	30	30	DFT-QPSK	M	Edge_1RB_Right	21.62	PC3	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	20.14	PC3	PASS
N38	30	30	DFT-16QAM	M	Inner_Full	21.13	PC3	PASS
N38	30	30	DFT-16QAM	M	Edge_1RB_Left	19.85	PC3	PASS
N38	30	30	DFT-16QAM	M	Edge_1RB_Right	20.49	PC3	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	21.32	PC3	PASS
N38	30	30	DFT-QPSK	H	Inner_Full	22.43	PC3	PASS
N38	30	30	DFT-QPSK	H	Edge_1RB_Left	21.35	PC3	PASS
N38	30	30	DFT-QPSK	H	Edge_1RB_Right	21.80	PC3	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	20.39	PC3	PASS
N38	30	30	DFT-16QAM	H	Inner_Full	21.45	PC3	PASS
N38	30	30	DFT-16QAM	H	Edge_1RB_Left	20.20	PC3	PASS
N38	30	30	DFT-16QAM	H	Edge_1RB_Right	20.76	PC3	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	21.23	PC3	PASS
N38	30	40	DFT-QPSK	L	Inner_Full	22.17	PC3	PASS
N38	30	40	DFT-QPSK	L	Edge_1RB_Left	20.95	PC3	PASS
N38	30	40	DFT-QPSK	L	Edge_1RB_Right	21.51	PC3	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	20.22	PC3	PASS
N38	30	40	DFT-16QAM	L	Inner_Full	21.09	PC3	PASS
N38	30	40	DFT-16QAM	L	Edge_1RB_Left	19.83	PC3	PASS
N38	30	40	DFT-16QAM	L	Edge_1RB_Right	20.48	PC3	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	21.28	PC3	PASS
N38	30	40	DFT-QPSK	M	Inner_Full	22.14	PC3	PASS
N38	30	40	DFT-QPSK	M	Edge_1RB_Left	20.62	PC3	PASS
N38	30	40	DFT-QPSK	M	Edge_1RB_Right	21.64	PC3	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	20.24	PC3	PASS
N38	30	40	DFT-16QAM	M	Inner_Full	21.21	PC3	PASS
N38	30	40	DFT-16QAM	M	Edge_1RB_Left	20.01	PC3	PASS
N38	30	40	DFT-16QAM	M	Edge_1RB_Right	20.58	PC3	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	21.27	PC3	PASS
N38	30	40	DFT-QPSK	H	Inner_Full	22.22	PC3	PASS
N38	30	40	DFT-QPSK	H	Edge_1RB_Left	21.06	PC3	PASS
N38	30	40	DFT-QPSK	H	Edge_1RB_Right	21.51	PC3	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	20.40	PC3	PASS
N38	30	40	DFT-16QAM	H	Inner_Full	21.40	PC3	PASS
N38	30	40	DFT-16QAM	H	Edge_1RB_Left	20.11	PC3	PASS

N38	30	40	DFT-16QAM	H	Edge_1RB_Right	20.42	PC3	PASS
-----	----	----	-----------	---	----------------	-------	-----	------

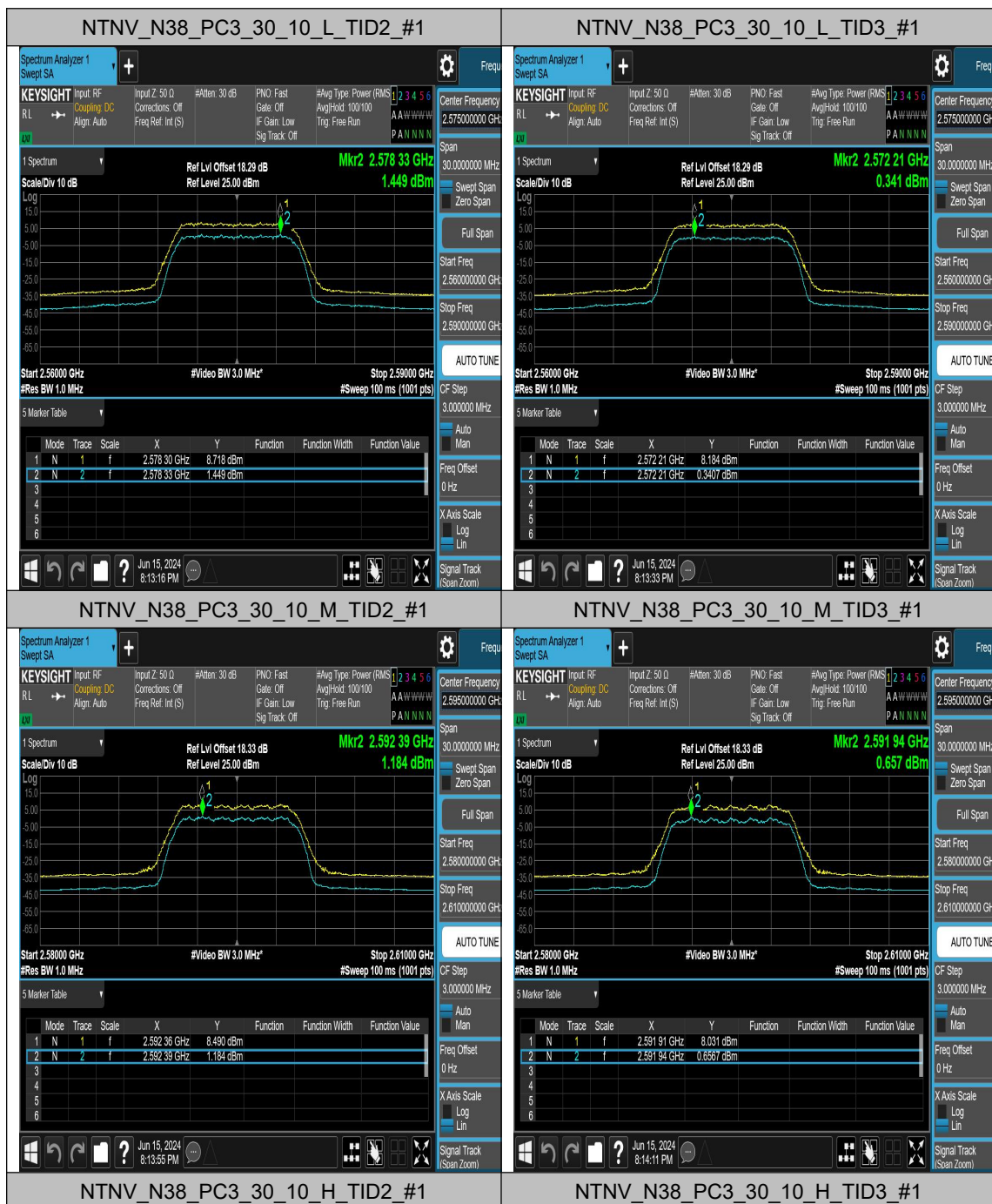
Appendix B: Peak-to-Average Ratio for SA

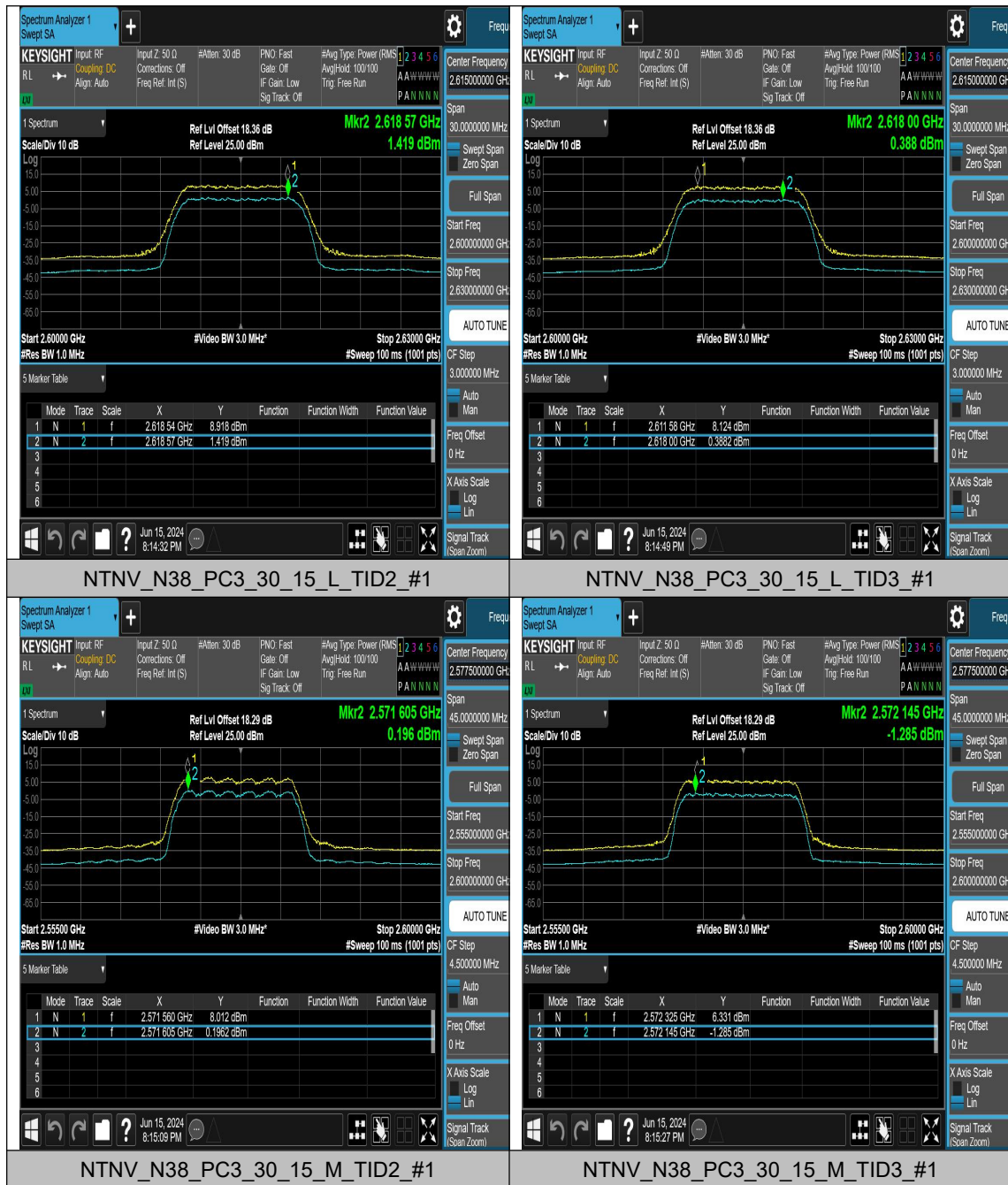
Peak-to-Average Ratio(PAPR)

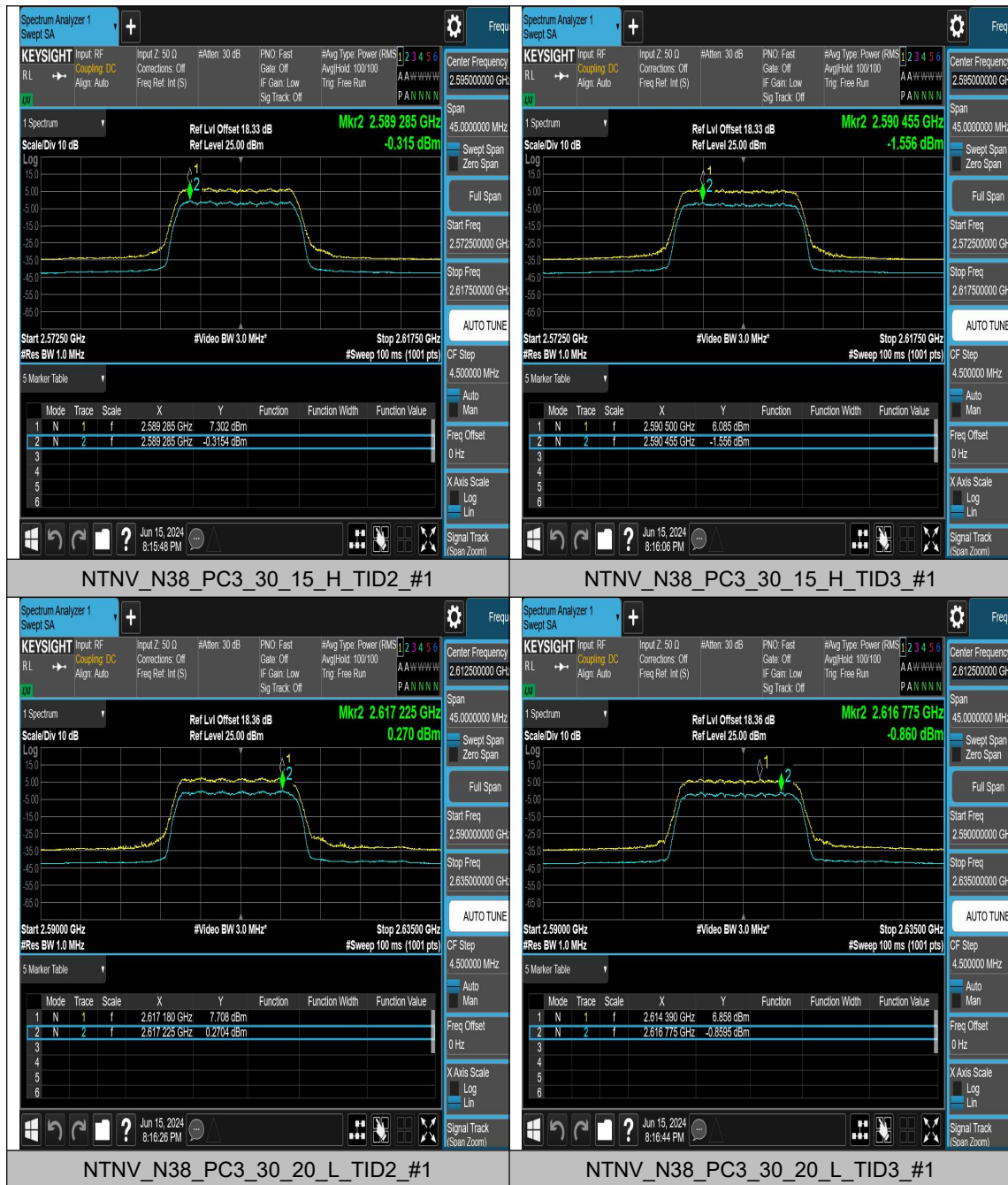
Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N38	30	10	DFT-QPSK	L	Outer_Full	100%	0.00	7.27	≤13	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	100%	0.00	7.84	≤13	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	100%	0.00	7.31	≤13	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	100%	0.00	7.37	≤13	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	100%	0.00	7.50	≤13	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	100%	0.00	7.73	≤13	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	100%	0.00	7.81	≤13	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	100%	0.00	7.62	≤13	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	100%	0.00	7.62	≤13	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	100%	0.00	7.65	≤13	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	100%	0.00	7.44	≤13	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	100%	0.00	7.72	≤13	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	100%	0.00	7.91	≤13	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	100%	0.00	7.97	≤13	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	100%	0.00	7.77	≤13	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	100%	0.00	8.14	≤13	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	100%	0.00	7.75	≤13	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	100%	0.00	8.28	≤13	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	100%	0.00	7.94	≤13	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	100%	0.00	8.04	≤13	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	100%	0.00	8.19	≤13	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	100%	0.00	7.75	≤13	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	100%	0.00	8.08	≤13	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	100%	0.00	8.06	≤13	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	100%	0.00	8.24	≤13	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	100%	0.00	7.91	≤13	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	100%	0.00	7.90	≤13	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	100%	0.00	8.19	≤13	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	100%	0.00	8.05	≤13	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	100%	0.00	8.27	≤13	PASS

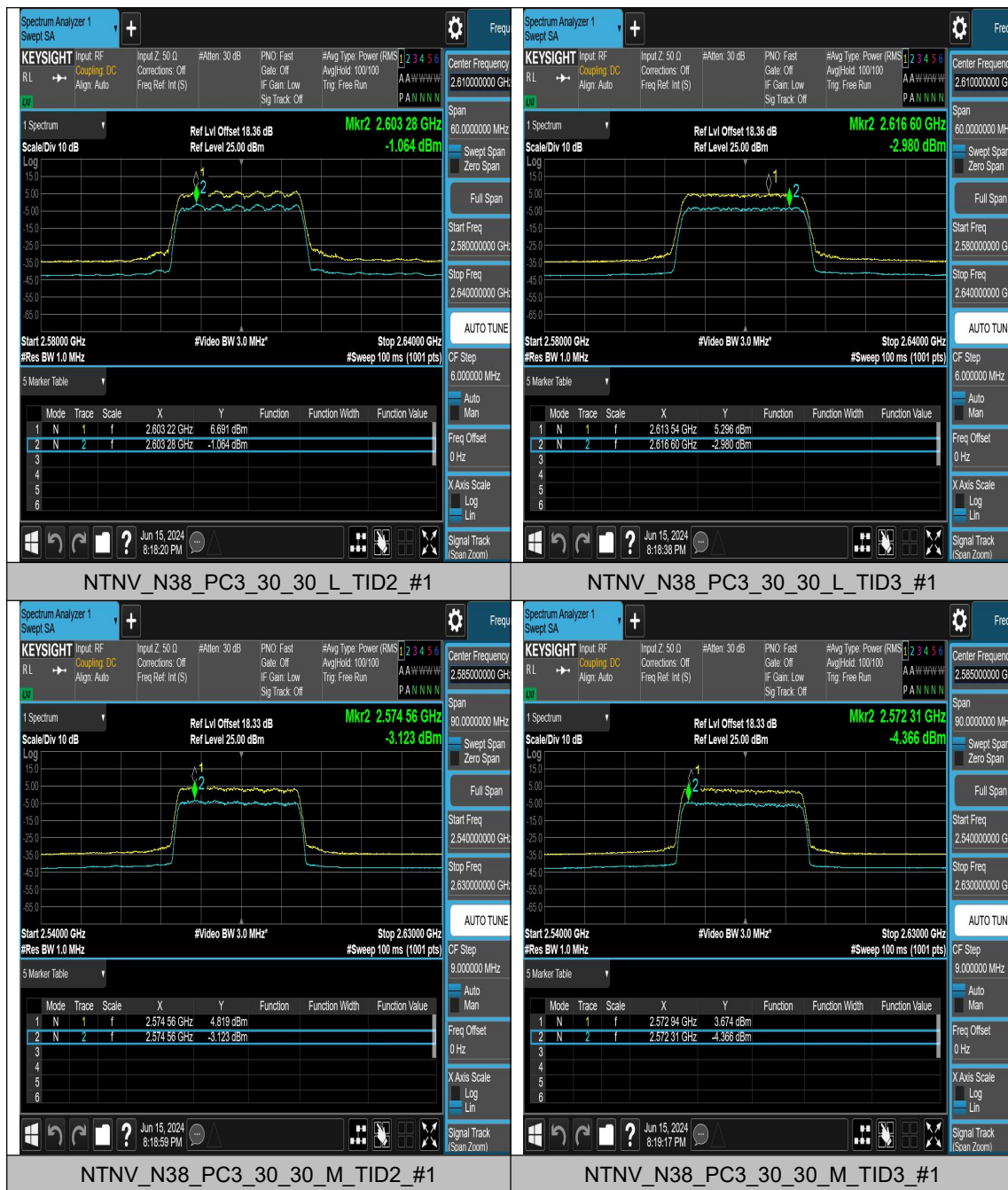
Test Graphs

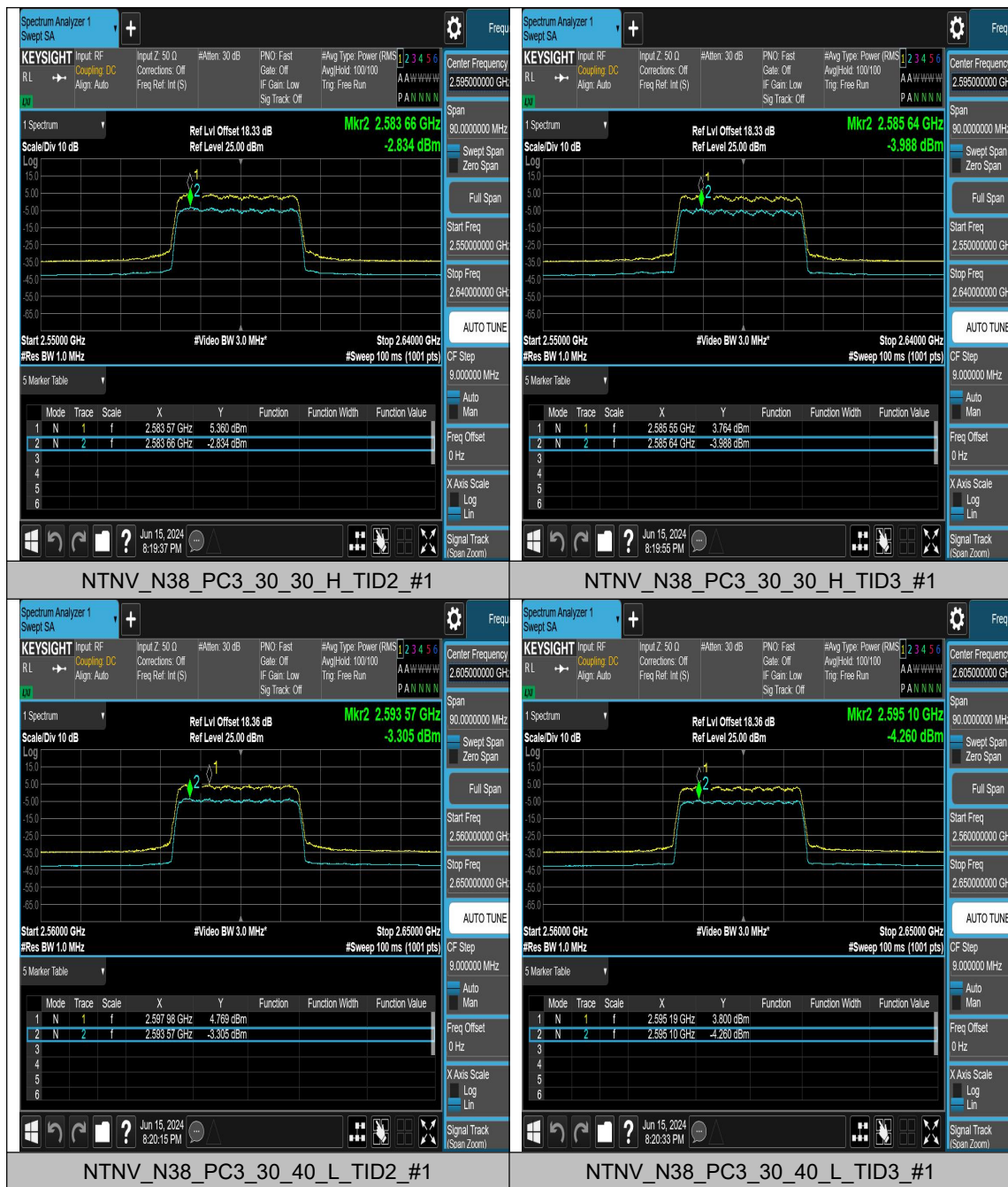


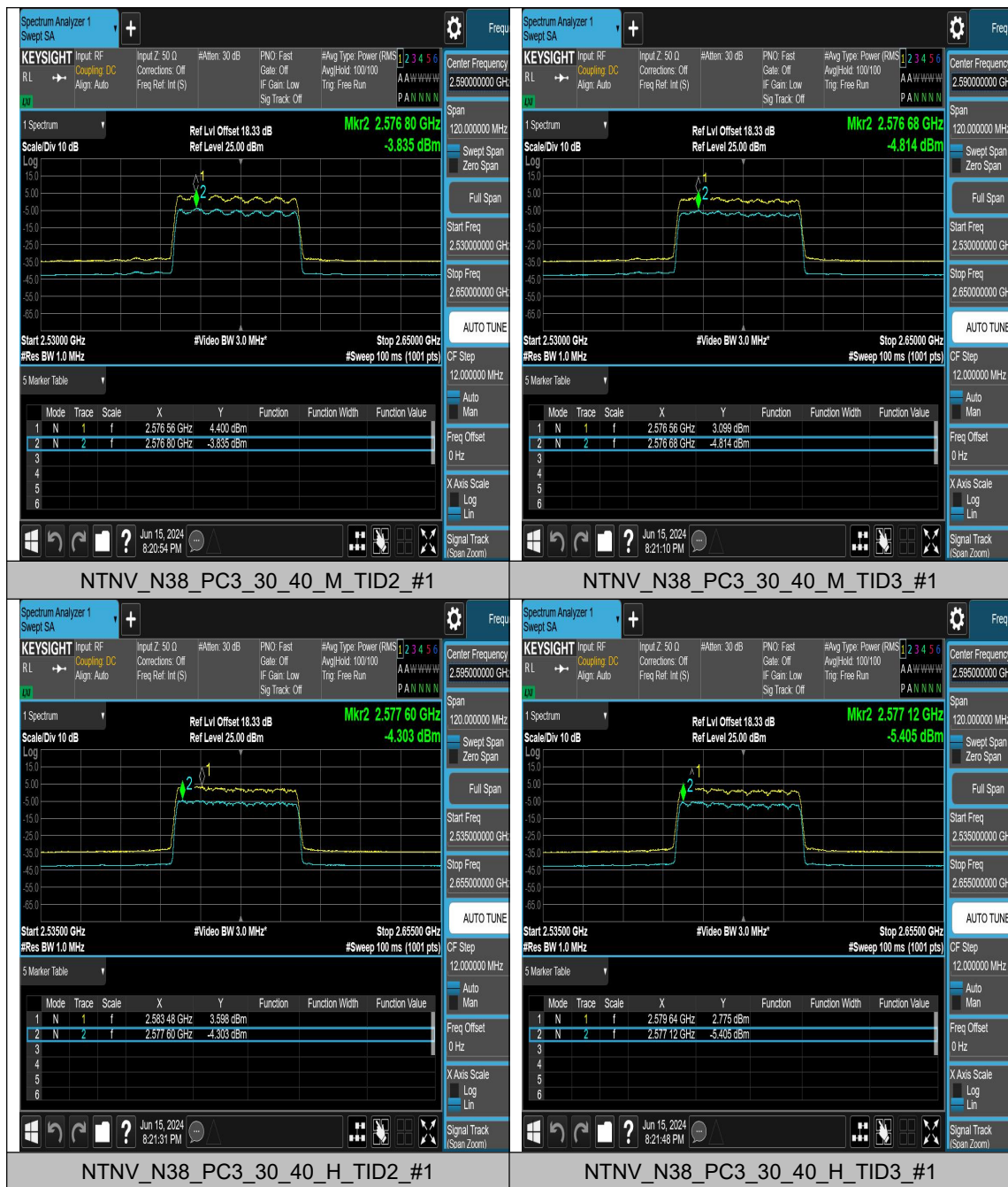


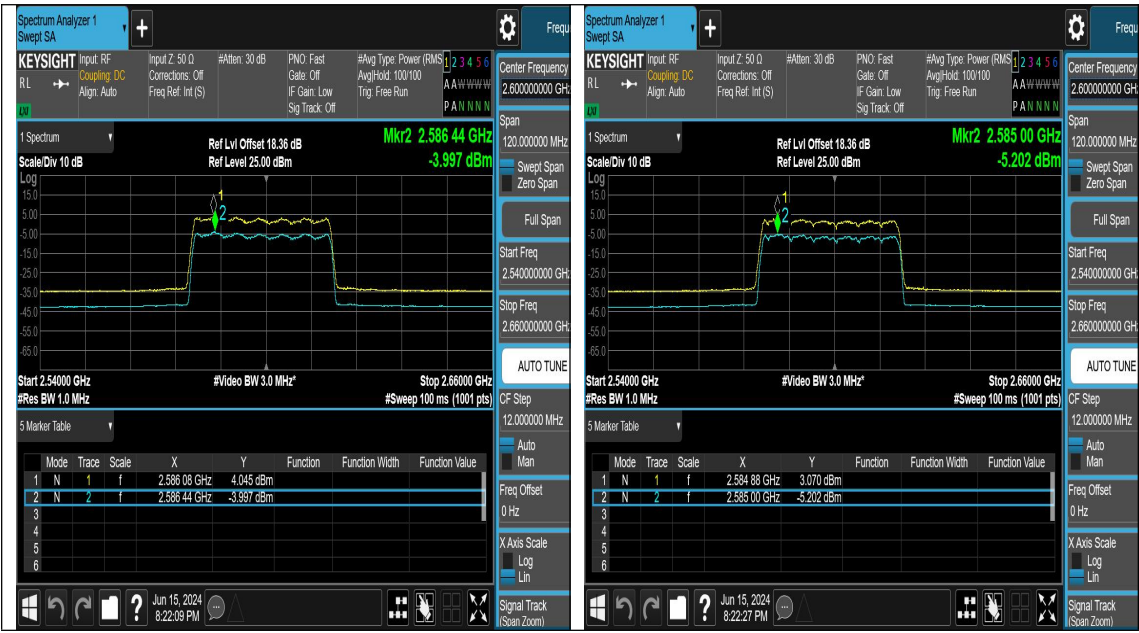












Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N38	30	10	DFT-QPSK	L	Outer_Full	8.6015	9.847	PASS
N38	30	10	DFT-16QAM	L	Outer_Full	8.6020	9.905	PASS
N38	30	10	DFT-QPSK	M	Outer_Full	8.5976	9.809	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	8.6026	9.830	PASS
N38	30	10	DFT-QPSK	H	Outer_Full	8.6000	9.717	PASS
N38	30	10	DFT-16QAM	H	Outer_Full	8.5974	9.537	PASS
N38	30	15	DFT-QPSK	L	Outer_Full	12.891	14.43	PASS
N38	30	15	DFT-16QAM	L	Outer_Full	12.888	14.23	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	12.884	14.12	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	12.905	14.52	PASS
N38	30	15	DFT-QPSK	H	Outer_Full	12.917	14.37	PASS
N38	30	15	DFT-16QAM	H	Outer_Full	12.897	14.30	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	17.907	19.39	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	17.867	19.36	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	17.887	19.63	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	17.908	19.29	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	17.878	19.32	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	17.884	19.57	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	26.800	28.64	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	26.757	28.51	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	26.800	28.55	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	26.845	28.73	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	26.826	28.75	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	26.799	28.70	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	35.682	37.75	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	35.709	37.77	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	35.740	37.80	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	35.711	37.85	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	35.750	37.86	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	35.731	37.86	PASS

Test Graphs

