

Appendix-B NR Band n13

Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	BW	Modulation	CH	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
n13	15	5	DFT-BPSK	L	Inner_1RB_Left	22.2	19.35	44.77	PASS
n13	15	5	DFT-BPSK	L	Inner_1RB_Right	22.19	19.34	44.77	PASS
n13	15	5	DFT-BPSK	L	Inner_Full	22.72	19.87	44.77	PASS
n13	15	5	DFT-BPSK	L	Outer_Full	22.16	19.31	44.77	PASS
n13	15	5	DFT-QPSK	L	Inner_1RB_Left	22.13	19.28	44.77	PASS
n13	15	5	DFT-QPSK	L	Inner_1RB_Right	22.15	19.3	44.77	PASS
n13	15	5	DFT-QPSK	L	Inner_Full	22.83	19.98	44.77	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	21.74	18.89	44.77	PASS
n13	15	5	DFT-16QAM	L	Inner_1RB_Left	21.23	18.38	44.77	PASS
n13	15	5	DFT-16QAM	L	Inner_1RB_Right	21.3	18.45	44.77	PASS
n13	15	5	DFT-16QAM	L	Inner_Full	21.71	18.86	44.77	PASS
n13	15	5	DFT-16QAM	L	Outer_Full	20.77	17.92	44.77	PASS
n13	15	5	DFT-64QAM	L	Inner_1RB_Left	19.85	17	44.77	PASS
n13	15	5	DFT-64QAM	L	Inner_1RB_Right	19.91	17.06	44.77	PASS
n13	15	5	DFT-64QAM	L	Inner_Full	20.39	17.54	44.77	PASS
n13	15	5	DFT-64QAM	L	Outer_Full	20.39	17.54	44.77	PASS
n13	15	5	DFT-256QAM	L	Inner_1RB_Left	18.18	15.33	44.77	PASS
n13	15	5	DFT-256QAM	L	Inner_1RB_Right	18.16	15.31	44.77	PASS
n13	15	5	DFT-256QAM	L	Inner_Full	18.23	15.38	44.77	PASS
n13	15	5	DFT-256QAM	L	Outer_Full	18.19	15.34	44.77	PASS
n13	15	5	DFT-BPSK	M	Inner_1RB_Left	22.14	19.29	44.77	PASS
n13	15	5	DFT-BPSK	M	Inner_1RB_Right	22.06	19.21	44.77	PASS
n13	15	5	DFT-BPSK	M	Inner_Full	22.76	19.91	44.77	PASS
n13	15	5	DFT-BPSK	M	Outer_Full	22.19	19.34	44.77	PASS
n13	15	5	DFT-QPSK	M	Inner_1RB_Left	22.15	19.3	44.77	PASS
n13	15	5	DFT-QPSK	M	Inner_1RB_Right	22.06	19.21	44.77	PASS
n13	15	5	DFT-QPSK	M	Inner_Full	22.79	19.94	44.77	PASS
n13	15	5	DFT-QPSK	M	Outer_Full	21.7	18.85	44.77	PASS
n13	15	5	DFT-16QAM	M	Inner_1RB_Left	21.16	18.31	44.77	PASS
n13	15	5	DFT-16QAM	M	Inner_1RB_Right	21.15	18.3	44.77	PASS
n13	15	5	DFT-16QAM	M	Inner_Full	21.71	18.86	44.77	PASS
n13	15	5	DFT-16QAM	M	Outer_Full	20.74	17.89	44.77	PASS
n13	15	5	DFT-64QAM	M	Inner_1RB_Left	19.84	16.99	44.77	PASS
n13	15	5	DFT-64QAM	M	Inner_1RB_Right	19.75	16.9	44.77	PASS
n13	15	5	DFT-64QAM	M	Inner_Full	20.28	17.43	44.77	PASS
n13	15	5	DFT-64QAM	M	Outer_Full	20.31	17.46	44.77	PASS

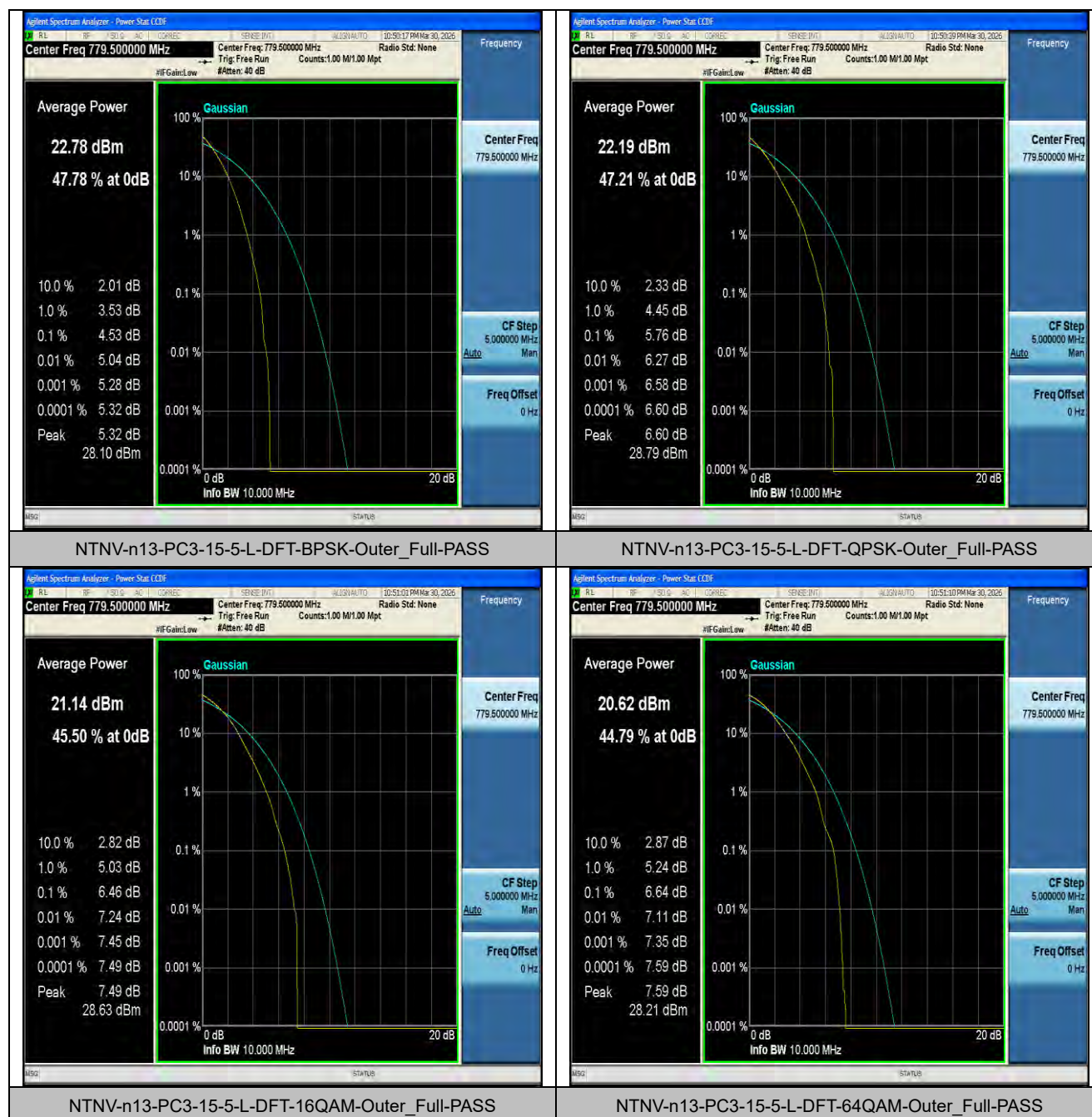
n13	15	5	DFT-256QAM	M	Inner_1RB_Left	18.11	15.26	44.77	PASS
n13	15	5	DFT-256QAM	M	Inner_1RB_Right	18.02	15.17	44.77	PASS
n13	15	5	DFT-256QAM	M	Inner_Full	18.2	15.35	44.77	PASS
n13	15	5	DFT-256QAM	M	Outer_Full	18.14	15.29	44.77	PASS
n13	15	5	DFT-BPSK	H	Inner_1RB_Left	22.15	19.3	44.77	PASS
n13	15	5	DFT-BPSK	H	Inner_1RB_Right	22.07	19.22	44.77	PASS
n13	15	5	DFT-BPSK	H	Inner_Full	22.72	19.87	44.77	PASS
n13	15	5	DFT-BPSK	H	Outer_Full	22.22	19.37	44.77	PASS
n13	15	5	DFT-QPSK	H	Inner_1RB_Left	22.13	19.28	44.77	PASS
n13	15	5	DFT-QPSK	H	Inner_1RB_Right	22.05	19.2	44.77	PASS
n13	15	5	DFT-QPSK	H	Inner_Full	22.76	19.91	44.77	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	21.85	19	44.77	PASS
n13	15	5	DFT-16QAM	H	Inner_1RB_Left	21.23	18.38	44.77	PASS
n13	15	5	DFT-16QAM	H	Inner_1RB_Right	21.15	18.3	44.77	PASS
n13	15	5	DFT-16QAM	H	Inner_Full	21.69	18.84	44.77	PASS
n13	15	5	DFT-16QAM	H	Outer_Full	20.74	17.89	44.77	PASS
n13	15	5	DFT-64QAM	H	Inner_1RB_Left	19.82	16.97	44.77	PASS
n13	15	5	DFT-64QAM	H	Inner_1RB_Right	19.78	16.93	44.77	PASS
n13	15	5	DFT-64QAM	H	Inner_Full	20.28	17.43	44.77	PASS
n13	15	5	DFT-64QAM	H	Outer_Full	20.29	17.44	44.77	PASS
n13	15	5	DFT-256QAM	H	Inner_1RB_Left	18.1	15.25	44.77	PASS
n13	15	5	DFT-256QAM	H	Inner_1RB_Right	17.9	15.05	44.77	PASS
n13	15	5	DFT-256QAM	H	Inner_Full	18.22	15.37	44.77	PASS
n13	15	5	DFT-256QAM	H	Outer_Full	18.2	15.35	44.77	PASS
n13	15	10	DFT-BPSK	M	Inner_1RB_Left	22.18	19.33	44.77	PASS
n13	15	10	DFT-BPSK	M	Inner_1RB_Right	22.11	19.26	44.77	PASS
n13	15	10	DFT-BPSK	M	Inner_Full	22.74	19.89	44.77	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	22.18	19.33	44.77	PASS
n13	15	10	DFT-QPSK	M	Inner_1RB_Left	22.22	19.37	44.77	PASS
n13	15	10	DFT-QPSK	M	Inner_1RB_Right	22.08	19.23	44.77	PASS
n13	15	10	DFT-QPSK	M	Inner_Full	22.73	19.88	44.77	PASS
n13	15	10	DFT-QPSK	M	Outer_Full	21.74	18.89	44.77	PASS
n13	15	10	DFT-16QAM	M	Inner_1RB_Left	21.27	18.42	44.77	PASS
n13	15	10	DFT-16QAM	M	Inner_1RB_Right	21.17	18.32	44.77	PASS
n13	15	10	DFT-16QAM	M	Inner_Full	21.75	18.9	44.77	PASS
n13	15	10	DFT-16QAM	M	Outer_Full	20.67	17.82	44.77	PASS
n13	15	10	DFT-64QAM	M	Inner_1RB_Left	19.85	17	44.77	PASS
n13	15	10	DFT-64QAM	M	Inner_1RB_Right	19.76	16.91	44.77	PASS
n13	15	10	DFT-64QAM	M	Inner_Full	20.3	17.45	44.77	PASS
n13	15	10	DFT-64QAM	M	Outer_Full	20.17	17.32	44.77	PASS
n13	15	10	DFT-256QAM	M	Inner_1RB_Left	18.15	15.3	44.77	PASS
n13	15	10	DFT-256QAM	M	Inner_1RB_Right	18.08	15.23	44.77	PASS
n13	15	10	DFT-256QAM	M	Inner_Full	18.21	15.36	44.77	PASS
n13	15	10	DFT-256QAM	M	Outer_Full	18.2	15.35	44.77	PASS

Peak-to-Average Ratio for SA

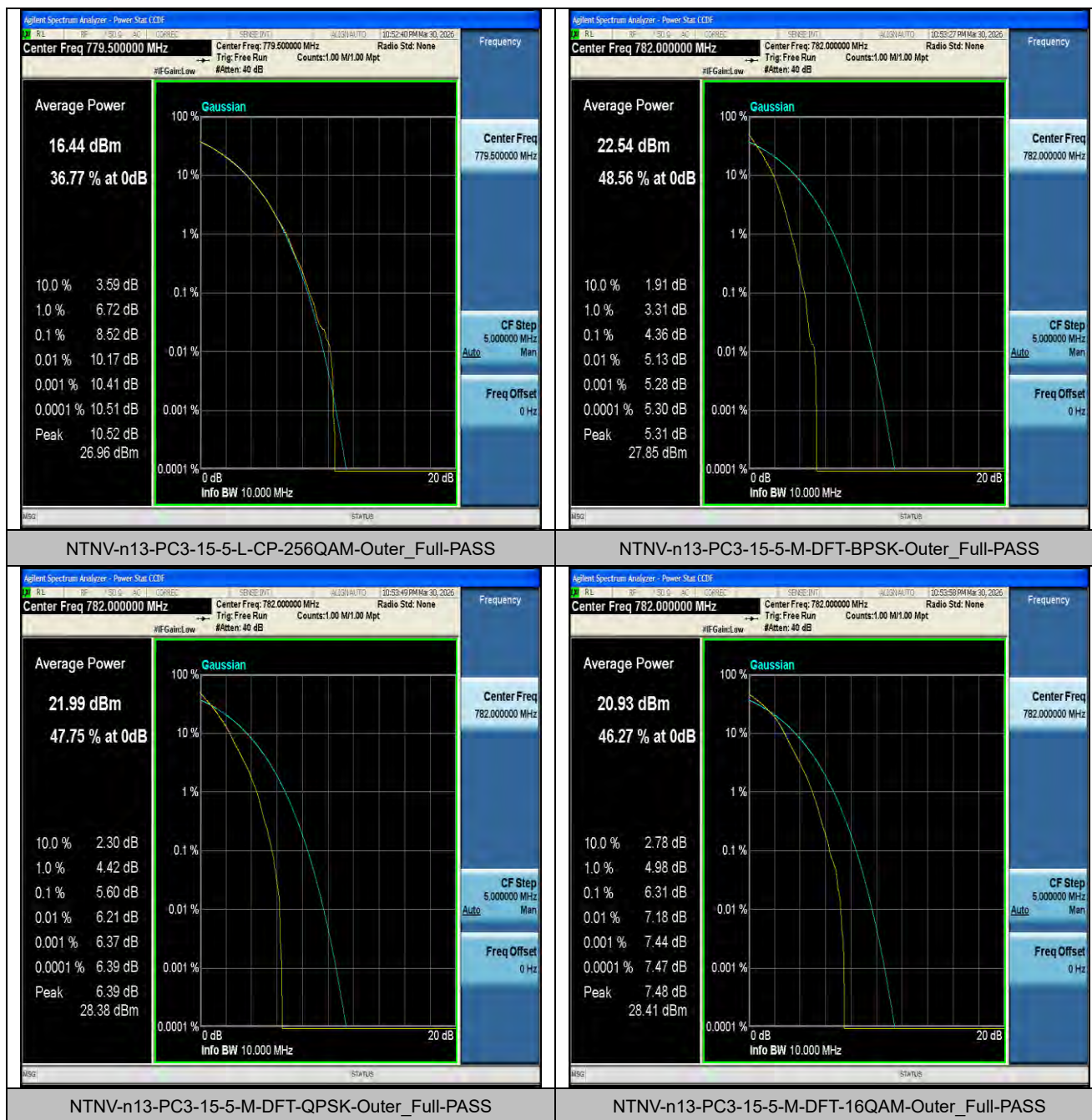
Test Result

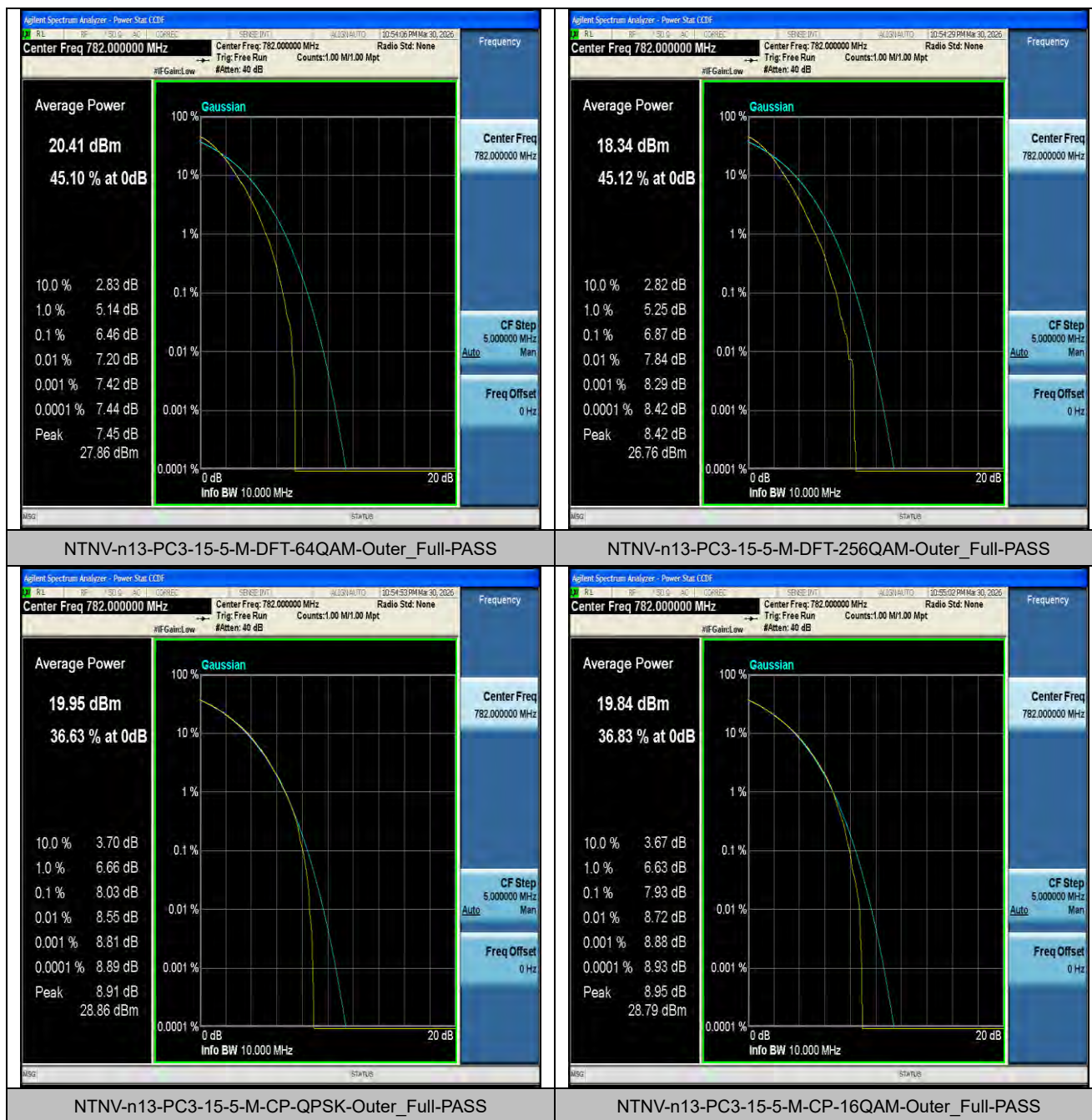
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dB)	Limit (dB)	Verdict
n13	15	5	DFT-BPSK	L	Outer_Full	4.53	≤13	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	5.76	≤13	PASS
n13	15	5	DFT-16QAM	L	Outer_Full	6.46	≤13	PASS
n13	15	5	DFT-64QAM	L	Outer_Full	6.64	≤13	PASS
n13	15	5	DFT-256QAM	L	Outer_Full	6.94	≤13	PASS
n13	15	5	CP-QPSK	L	Outer_Full	8.08	≤13	PASS
n13	15	5	CP-16QAM	L	Outer_Full	7.98	≤13	PASS
n13	15	5	CP-64QAM	L	Outer_Full	8.28	≤13	PASS
n13	15	5	CP-256QAM	L	Outer_Full	8.52	≤13	PASS
n13	15	5	DFT-BPSK	M	Outer_Full	4.36	≤13	PASS
n13	15	5	DFT-QPSK	M	Outer_Full	5.6	≤13	PASS
n13	15	5	DFT-16QAM	M	Outer_Full	6.31	≤13	PASS
n13	15	5	DFT-64QAM	M	Outer_Full	6.46	≤13	PASS
n13	15	5	DFT-256QAM	M	Outer_Full	6.87	≤13	PASS
n13	15	5	CP-QPSK	M	Outer_Full	8.03	≤13	PASS
n13	15	5	CP-16QAM	M	Outer_Full	7.93	≤13	PASS
n13	15	5	CP-64QAM	M	Outer_Full	8.24	≤13	PASS
n13	15	5	CP-256QAM	M	Outer_Full	8.59	≤13	PASS
n13	15	5	DFT-BPSK	H	Outer_Full	4.54	≤13	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	5.78	≤13	PASS
n13	15	5	DFT-16QAM	H	Outer_Full	6.51	≤13	PASS
n13	15	5	DFT-64QAM	H	Outer_Full	6.59	≤13	PASS
n13	15	5	DFT-256QAM	H	Outer_Full	6.92	≤13	PASS
n13	15	5	CP-QPSK	H	Outer_Full	8.23	≤13	PASS
n13	15	5	CP-16QAM	H	Outer_Full	8.04	≤13	PASS
n13	15	5	CP-64QAM	H	Outer_Full	8.36	≤13	PASS
n13	15	5	CP-256QAM	H	Outer_Full	8.64	≤13	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	4.47	≤13	PASS
n13	15	10	DFT-QPSK	M	Outer_Full	5.5	≤13	PASS
n13	15	10	DFT-16QAM	M	Outer_Full	6.19	≤13	PASS
n13	15	10	DFT-64QAM	M	Outer_Full	6.54	≤13	PASS
n13	15	10	DFT-256QAM	M	Outer_Full	6.61	≤13	PASS
n13	15	10	CP-QPSK	M	Outer_Full	8.29	≤13	PASS
n13	15	10	CP-16QAM	M	Outer_Full	8.46	≤13	PASS
n13	15	10	CP-64QAM	M	Outer_Full	8.5	≤13	PASS
n13	15	10	CP-256QAM	M	Outer_Full	8.65	≤13	PASS

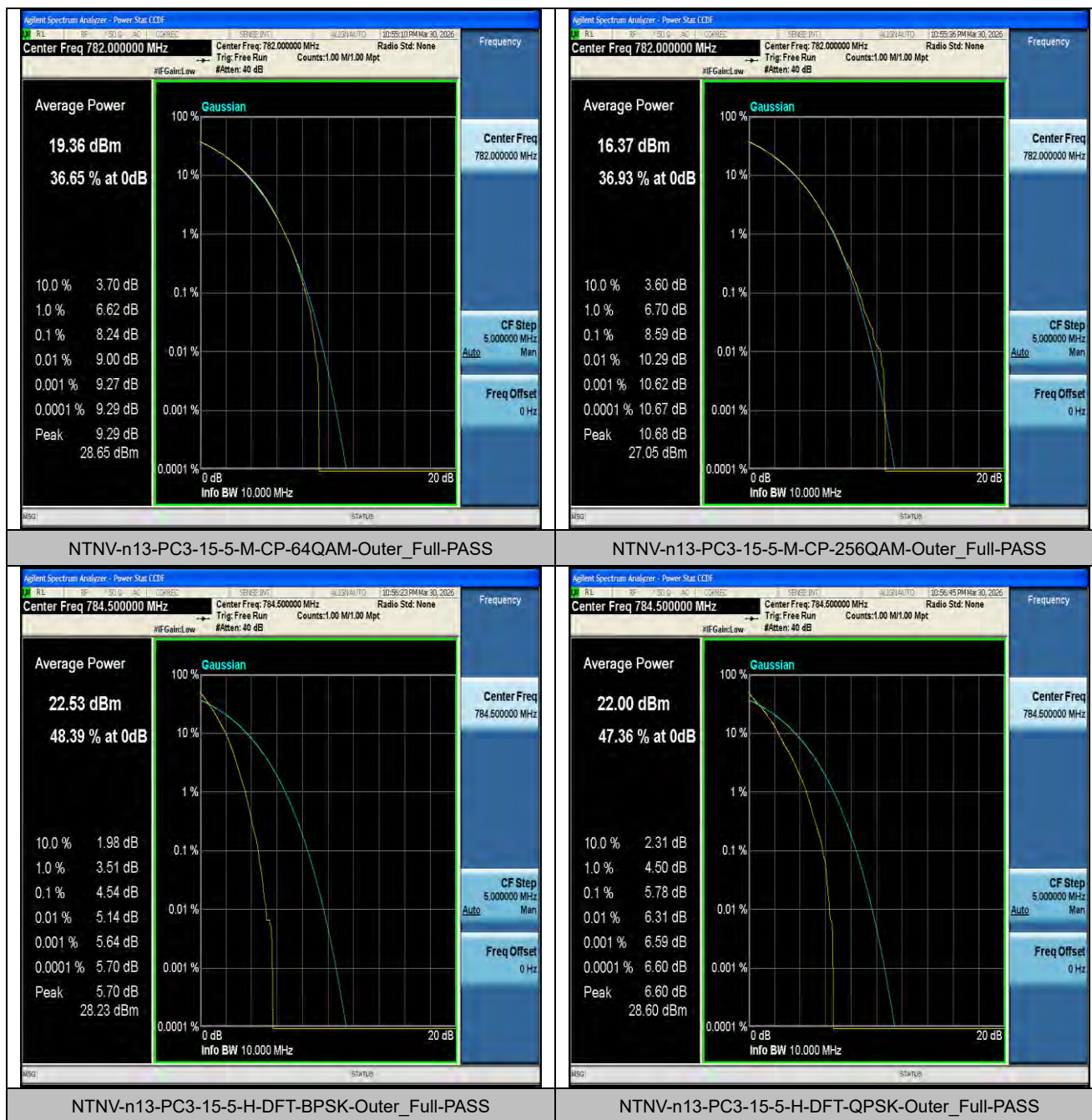
Test Graphs

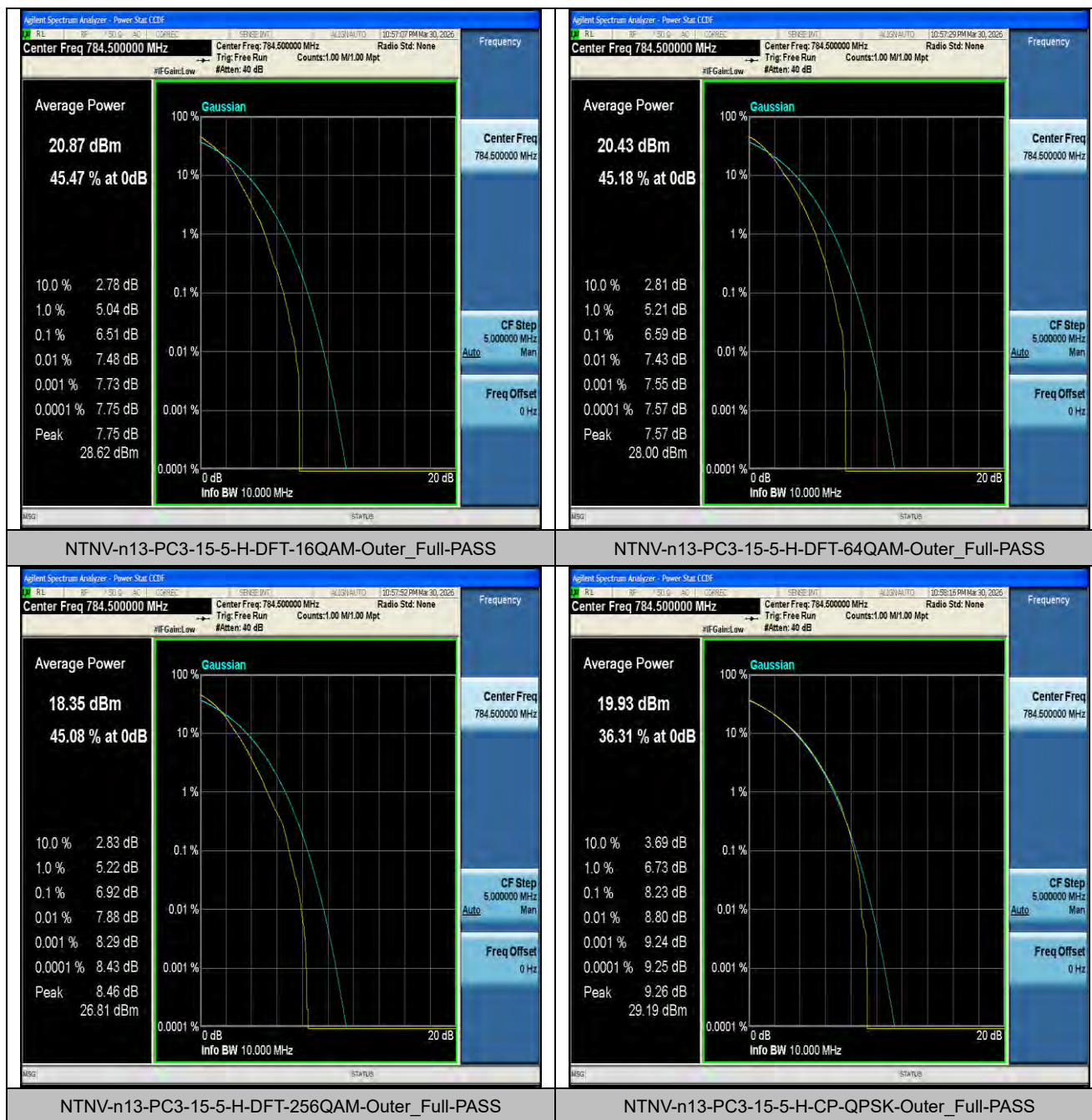


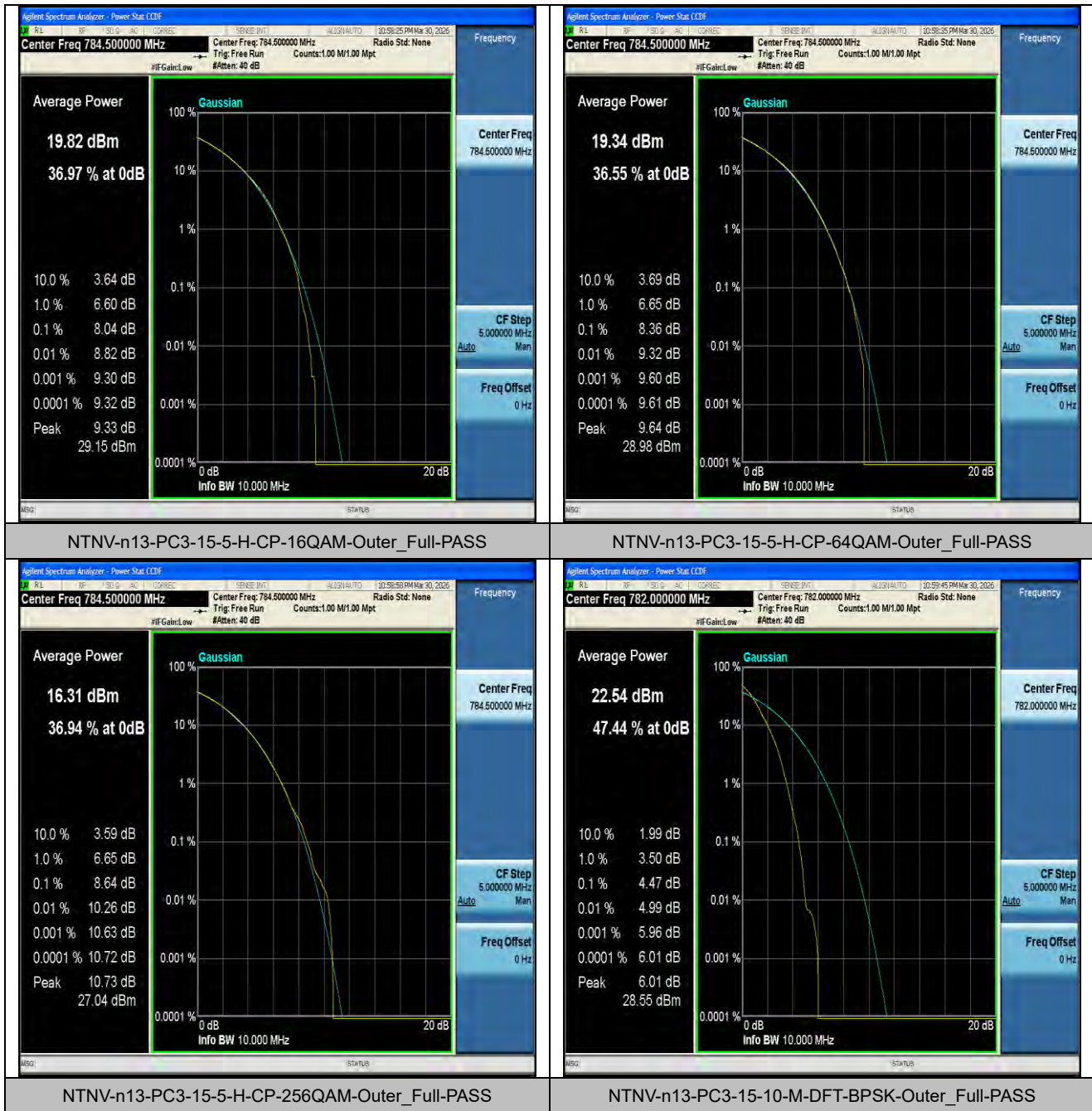




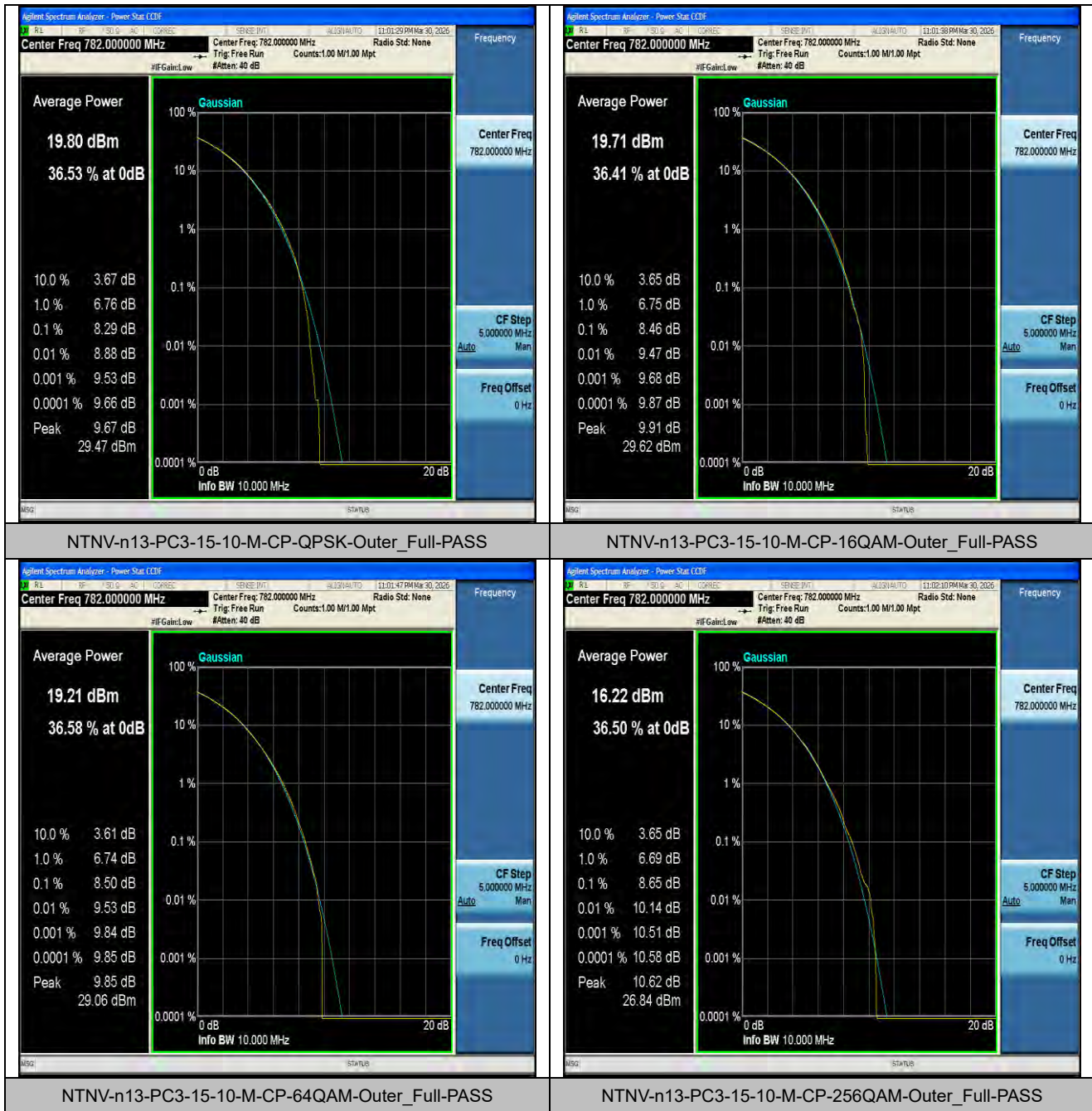








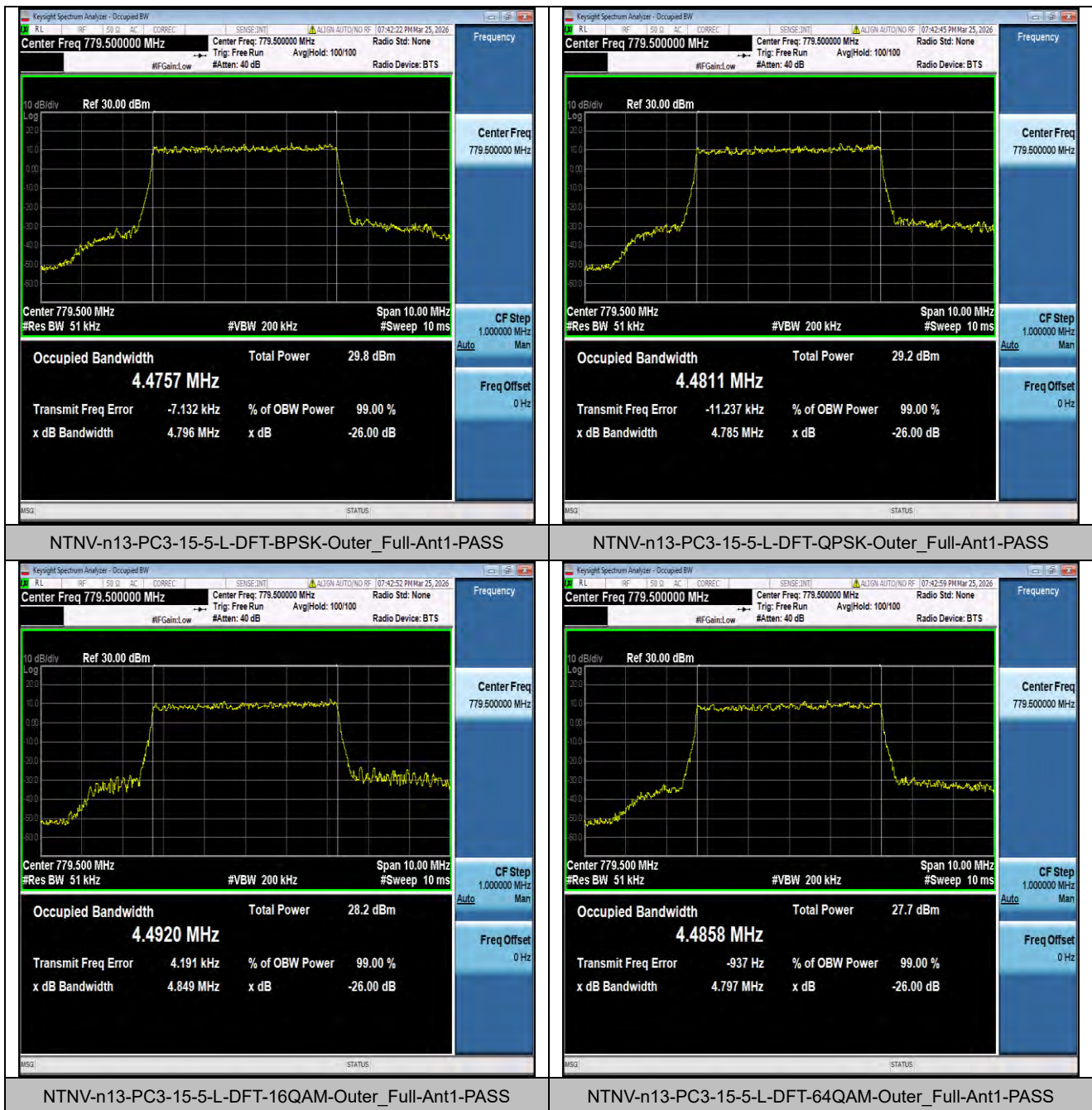


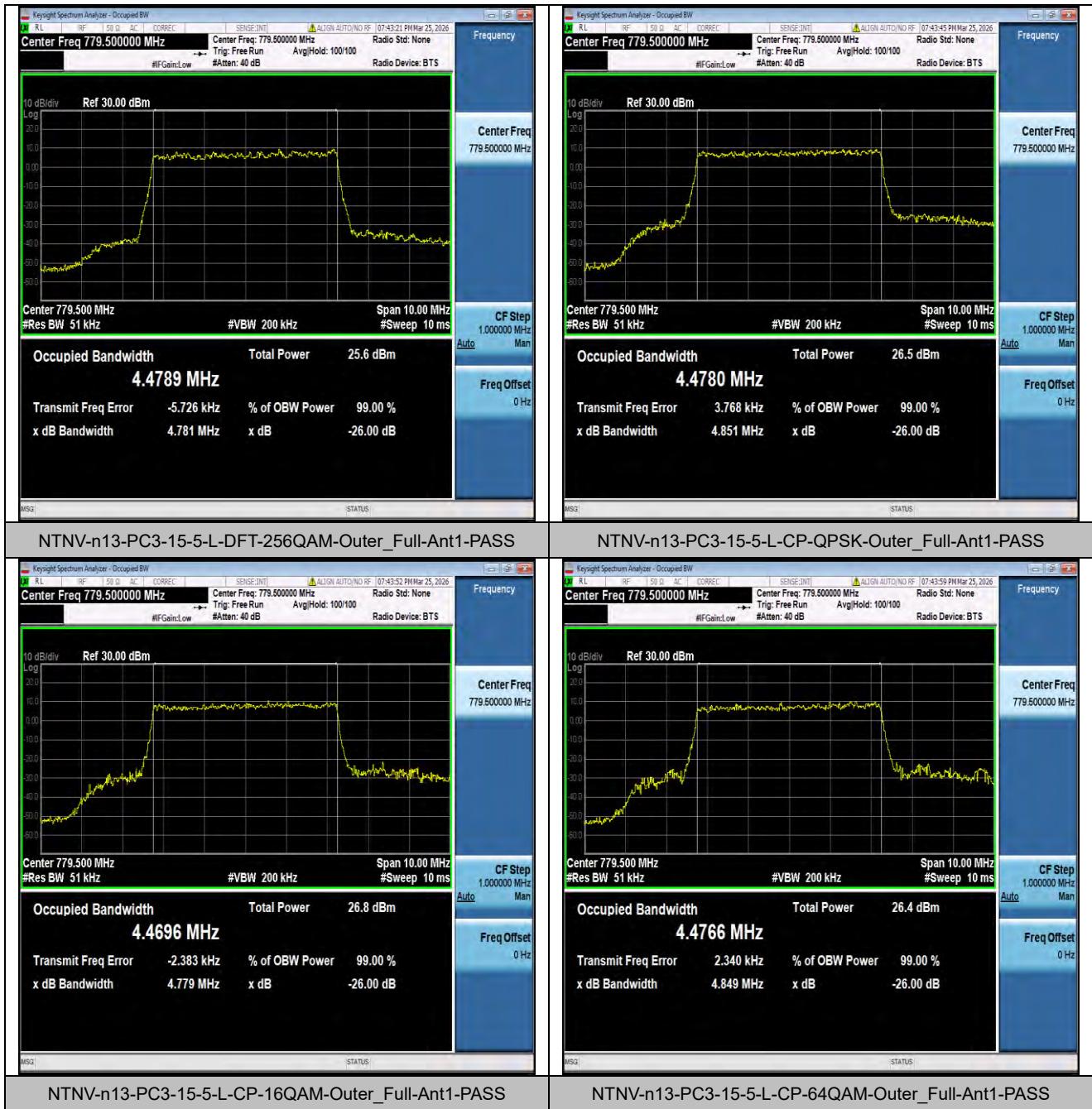


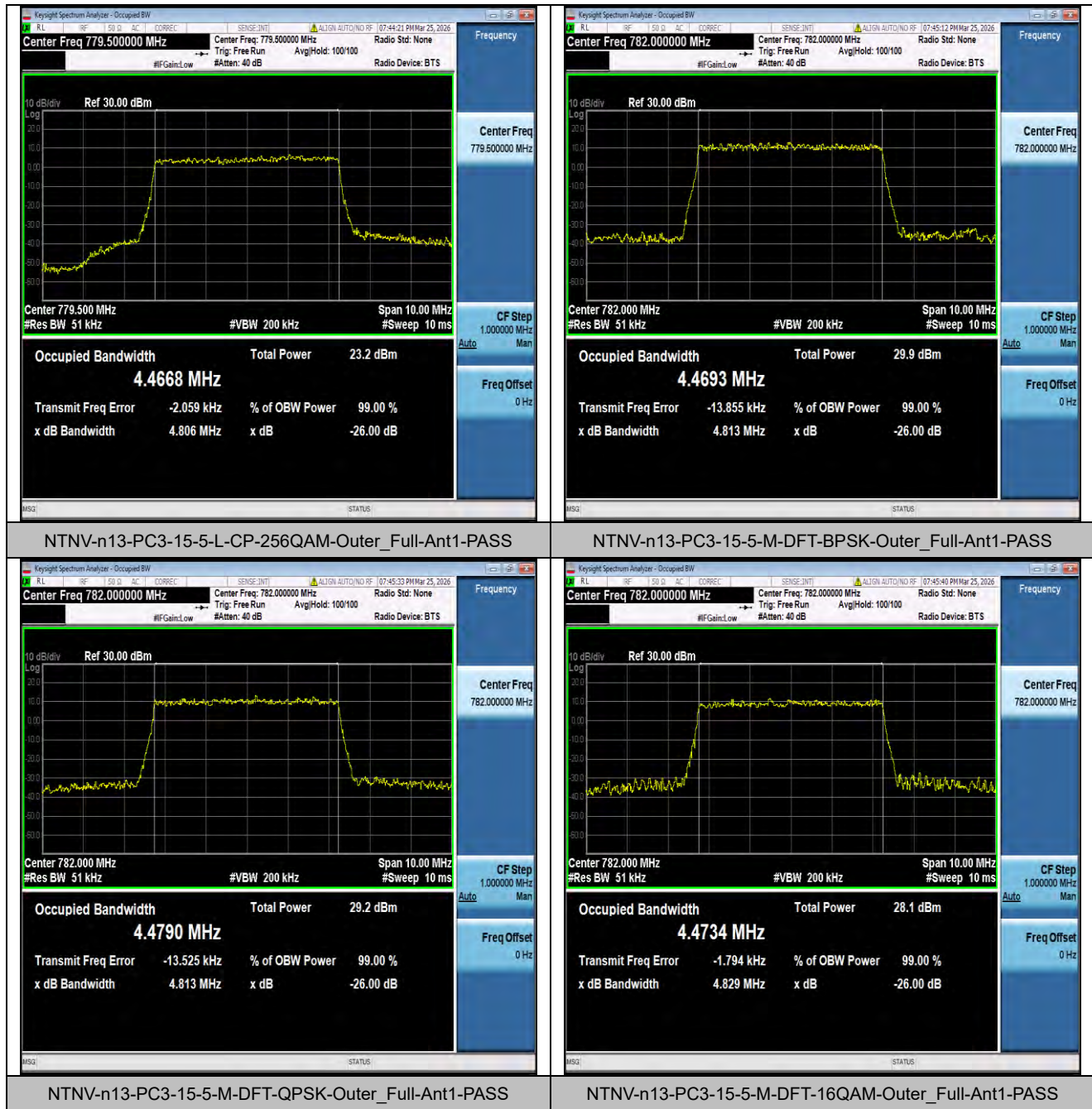
26dB Bandwidth and Occupied Bandwidth for SA**Test Result**

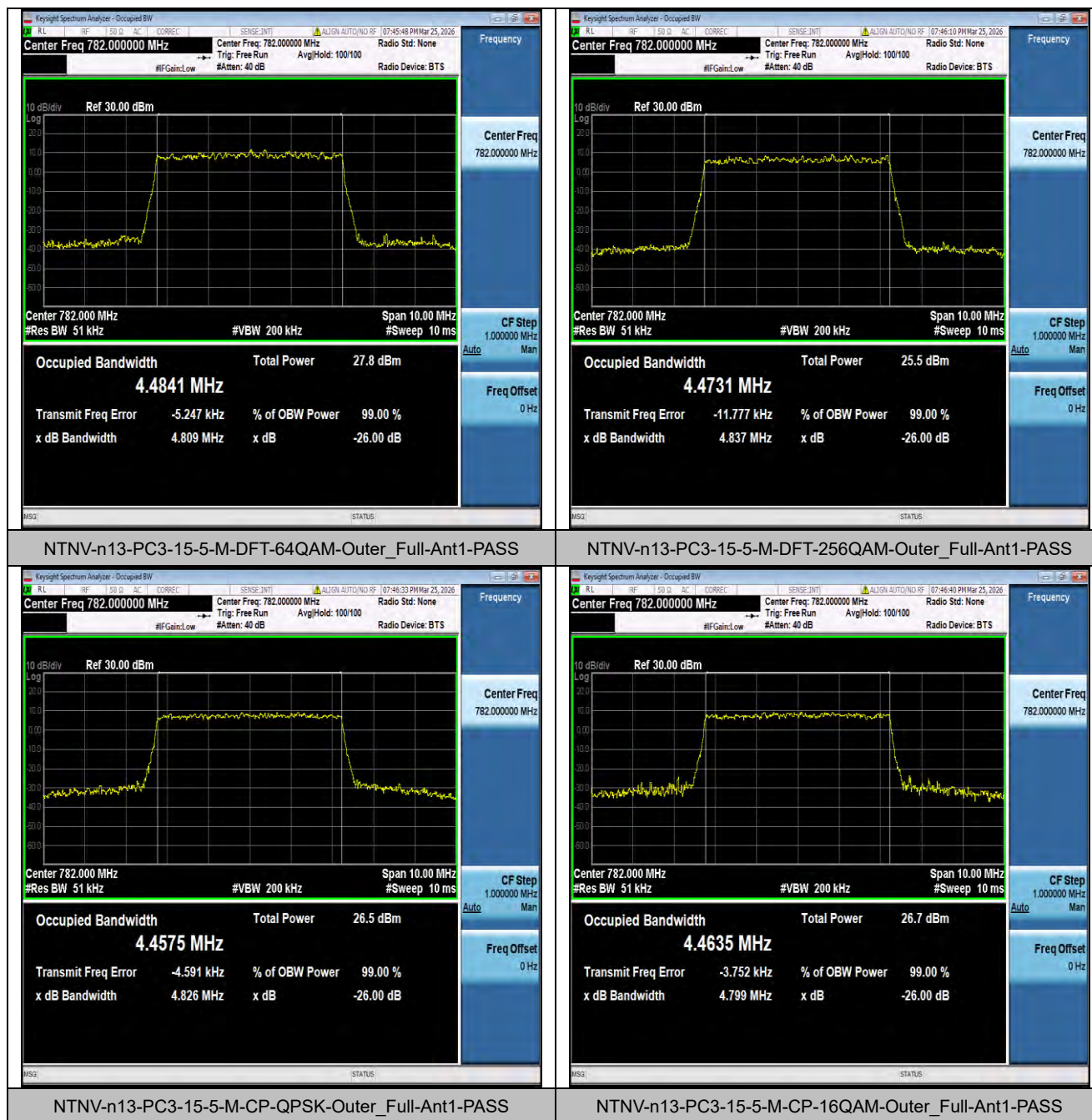
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
n13	15	5	DFT-BPSK	L	Outer_Full	4.4757	4.796	PASS
n13	15	5	DFT-QPSK	L	Outer_Full	4.4811	4.785	PASS
n13	15	5	DFT-16QAM	L	Outer_Full	4.4920	4.849	PASS
n13	15	5	DFT-64QAM	L	Outer_Full	4.4858	4.797	PASS
n13	15	5	DFT-256QAM	L	Outer_Full	4.4789	4.781	PASS
n13	15	5	CP-QPSK	L	Outer_Full	4.4780	4.851	PASS
n13	15	5	CP-16QAM	L	Outer_Full	4.4696	4.779	PASS
n13	15	5	CP-64QAM	L	Outer_Full	4.4766	4.849	PASS
n13	15	5	CP-256QAM	L	Outer_Full	4.4668	4.806	PASS
n13	15	5	DFT-BPSK	M	Outer_Full	4.4693	4.813	PASS
n13	15	5	DFT-QPSK	M	Outer_Full	4.4790	4.813	PASS
n13	15	5	DFT-16QAM	M	Outer_Full	4.4734	4.829	PASS
n13	15	5	DFT-64QAM	M	Outer_Full	4.4841	4.809	PASS
n13	15	5	DFT-256QAM	M	Outer_Full	4.4731	4.837	PASS
n13	15	5	CP-QPSK	M	Outer_Full	4.4575	4.826	PASS
n13	15	5	CP-16QAM	M	Outer_Full	4.4635	4.799	PASS
n13	15	5	CP-64QAM	M	Outer_Full	4.4758	4.750	PASS
n13	15	5	CP-256QAM	M	Outer_Full	4.4678	4.819	PASS
n13	15	5	DFT-BPSK	H	Outer_Full	4.4754	4.799	PASS
n13	15	5	DFT-QPSK	H	Outer_Full	4.4811	4.810	PASS
n13	15	5	DFT-16QAM	H	Outer_Full	4.4805	4.846	PASS
n13	15	5	DFT-64QAM	H	Outer_Full	4.4873	4.849	PASS
n13	15	5	DFT-256QAM	H	Outer_Full	4.4722	4.806	PASS
n13	15	5	CP-QPSK	H	Outer_Full	4.4694	4.852	PASS
n13	15	5	CP-16QAM	H	Outer_Full	4.4699	4.782	PASS
n13	15	5	CP-64QAM	H	Outer_Full	4.4656	4.788	PASS
n13	15	5	CP-256QAM	H	Outer_Full	4.4636	4.826	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	8.9236	9.355	PASS
n13	15	10	DFT-QPSK	M	Outer_Full	8.8929	9.389	PASS
n13	15	10	DFT-16QAM	M	Outer_Full	8.8916	9.336	PASS
n13	15	10	DFT-64QAM	M	Outer_Full	8.9119	9.355	PASS
n13	15	10	DFT-256QAM	M	Outer_Full	8.8916	9.344	PASS
n13	15	10	CP-QPSK	M	Outer_Full	9.2532	9.667	PASS
n13	15	10	CP-16QAM	M	Outer_Full	9.2676	9.738	PASS
n13	15	10	CP-64QAM	M	Outer_Full	9.2703	9.693	PASS
n13	15	10	CP-256QAM	M	Outer_Full	9.2447	9.743	PASS

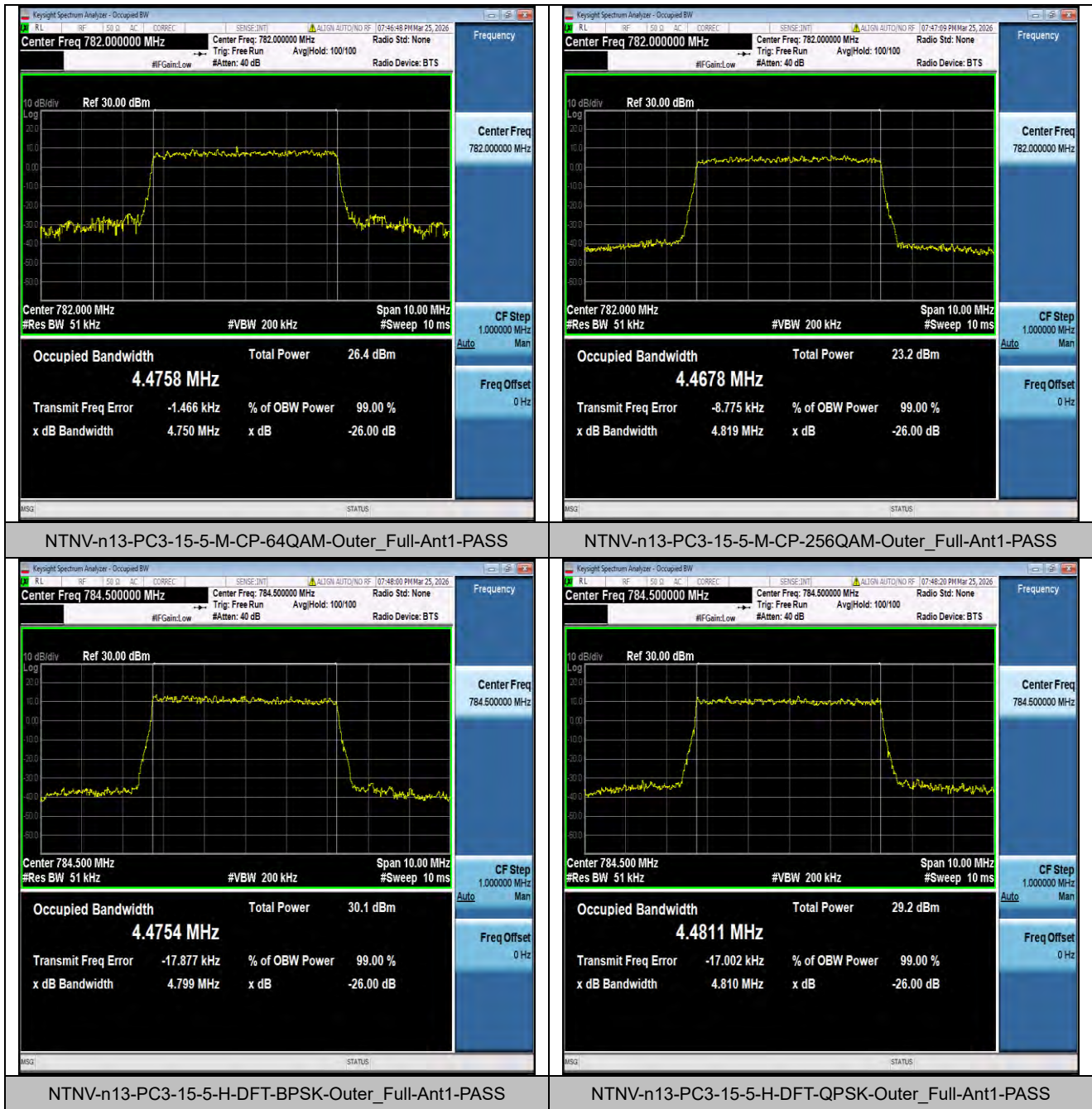
Test Graphs

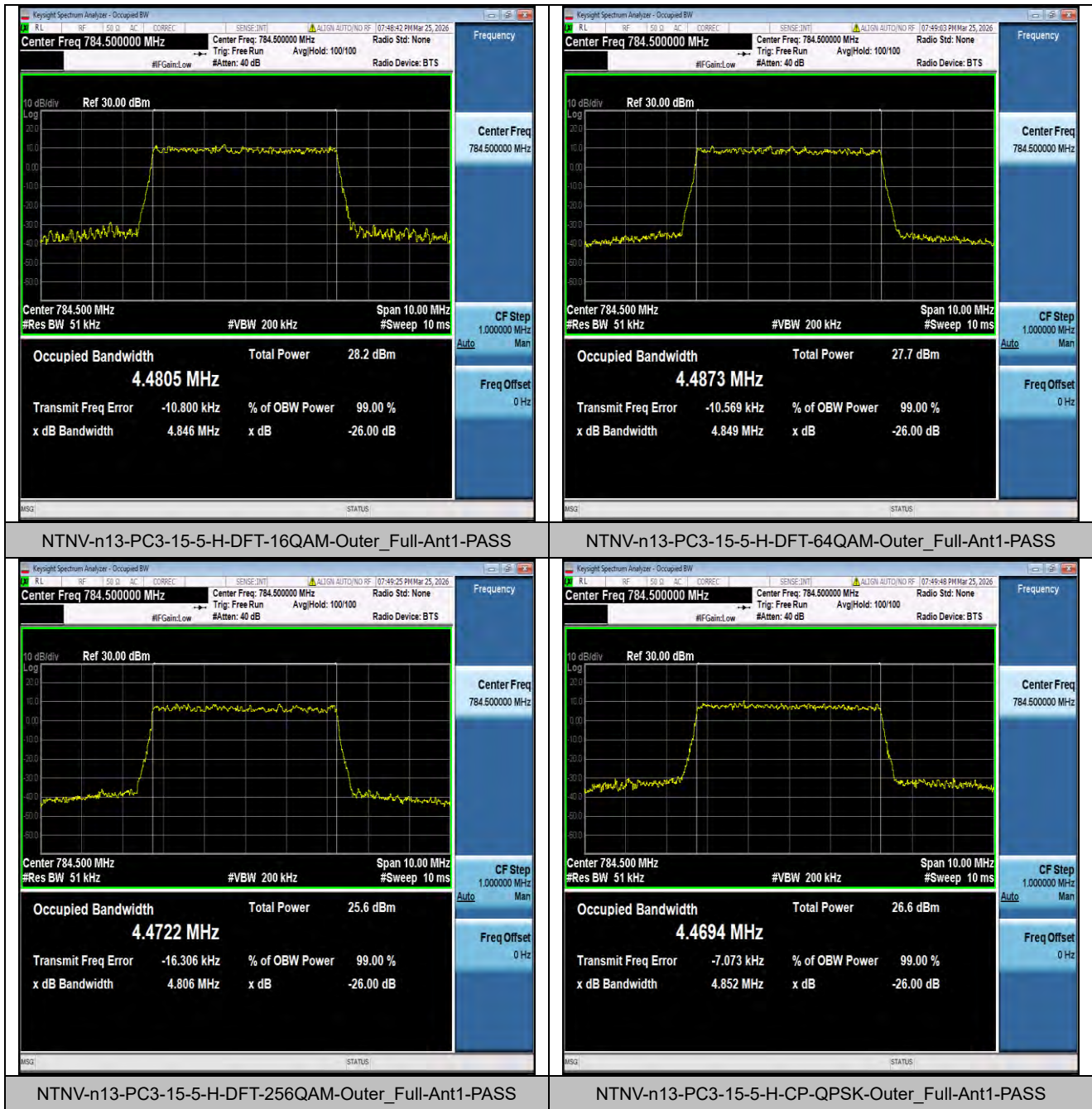


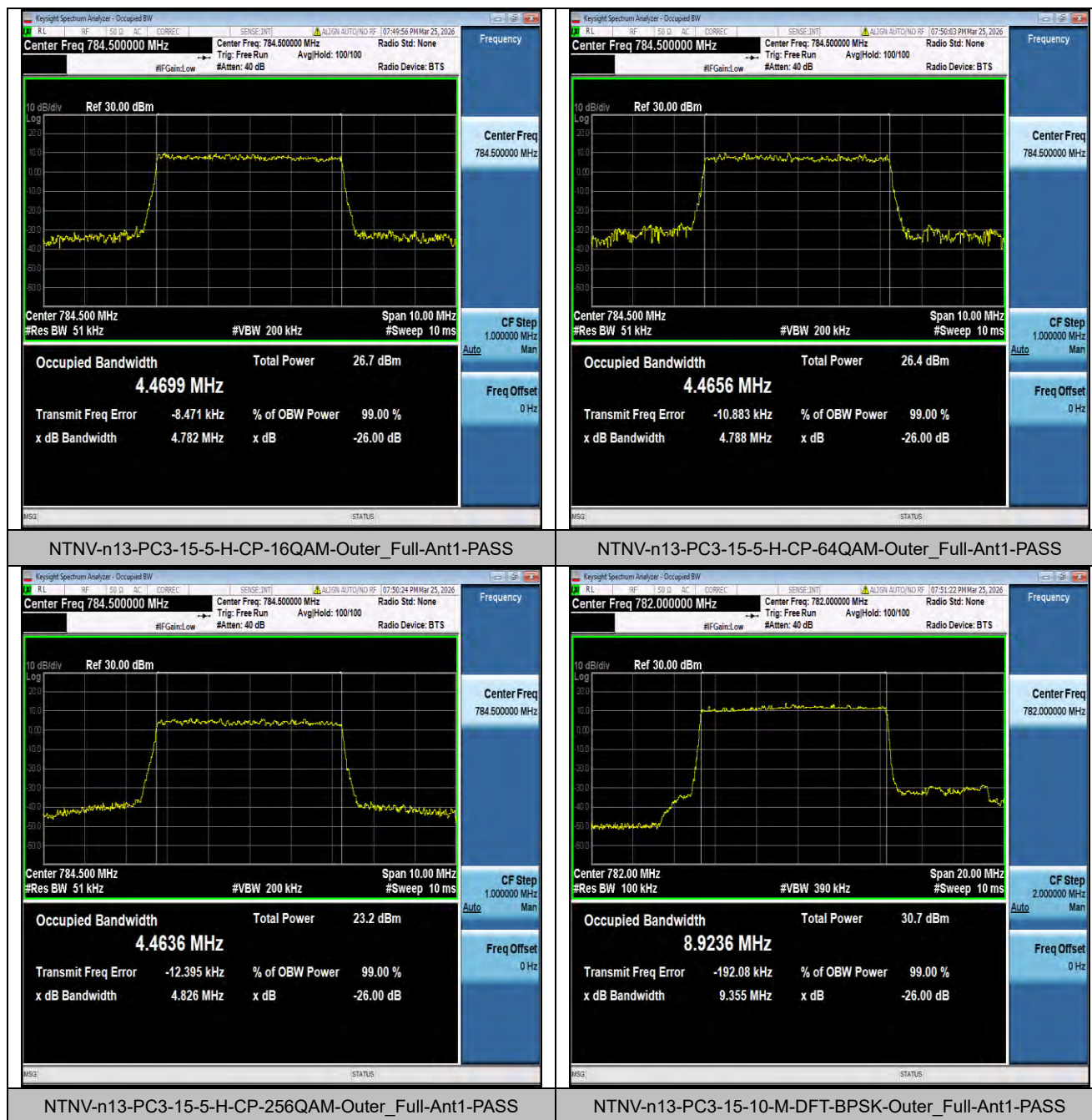


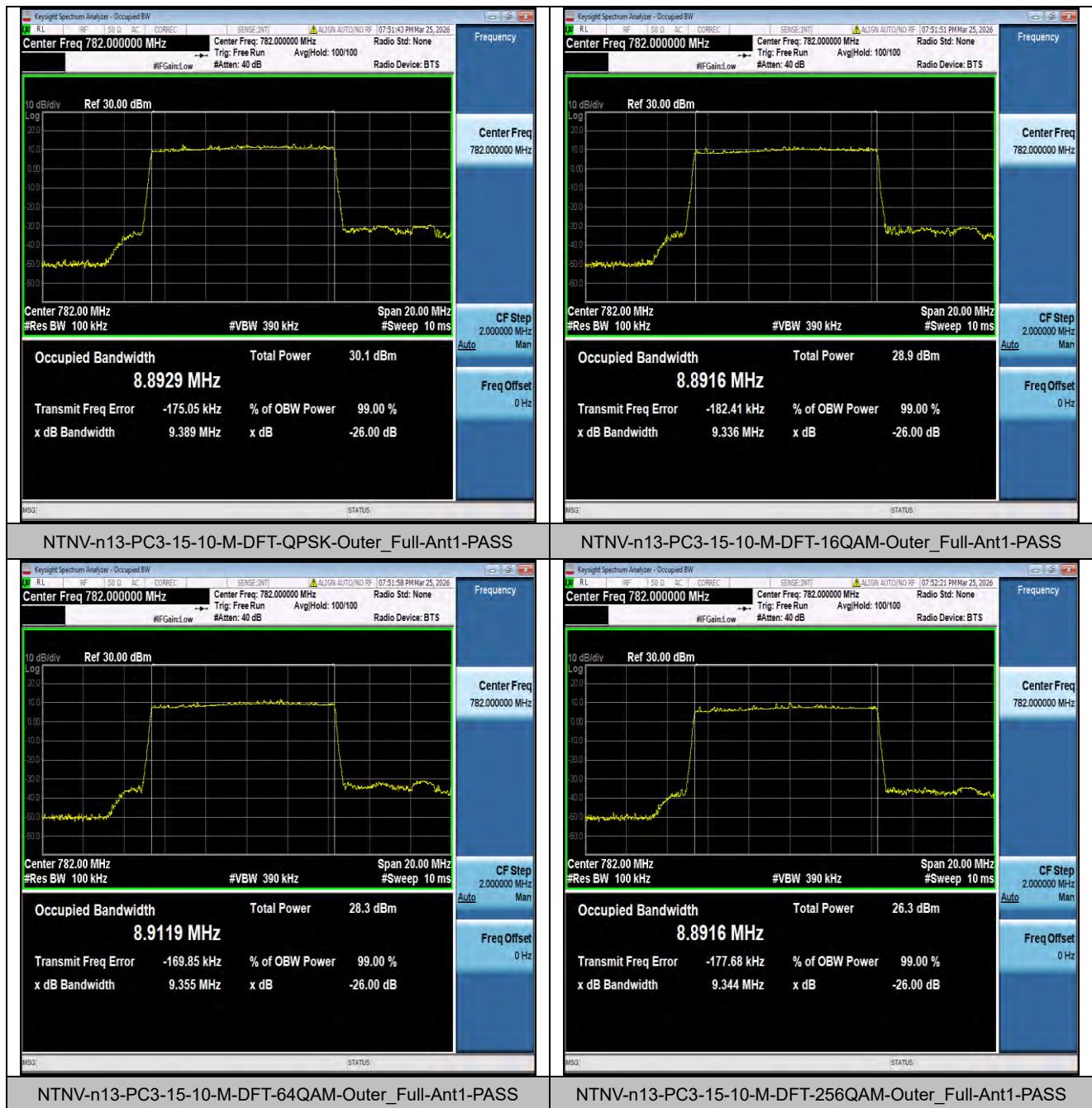


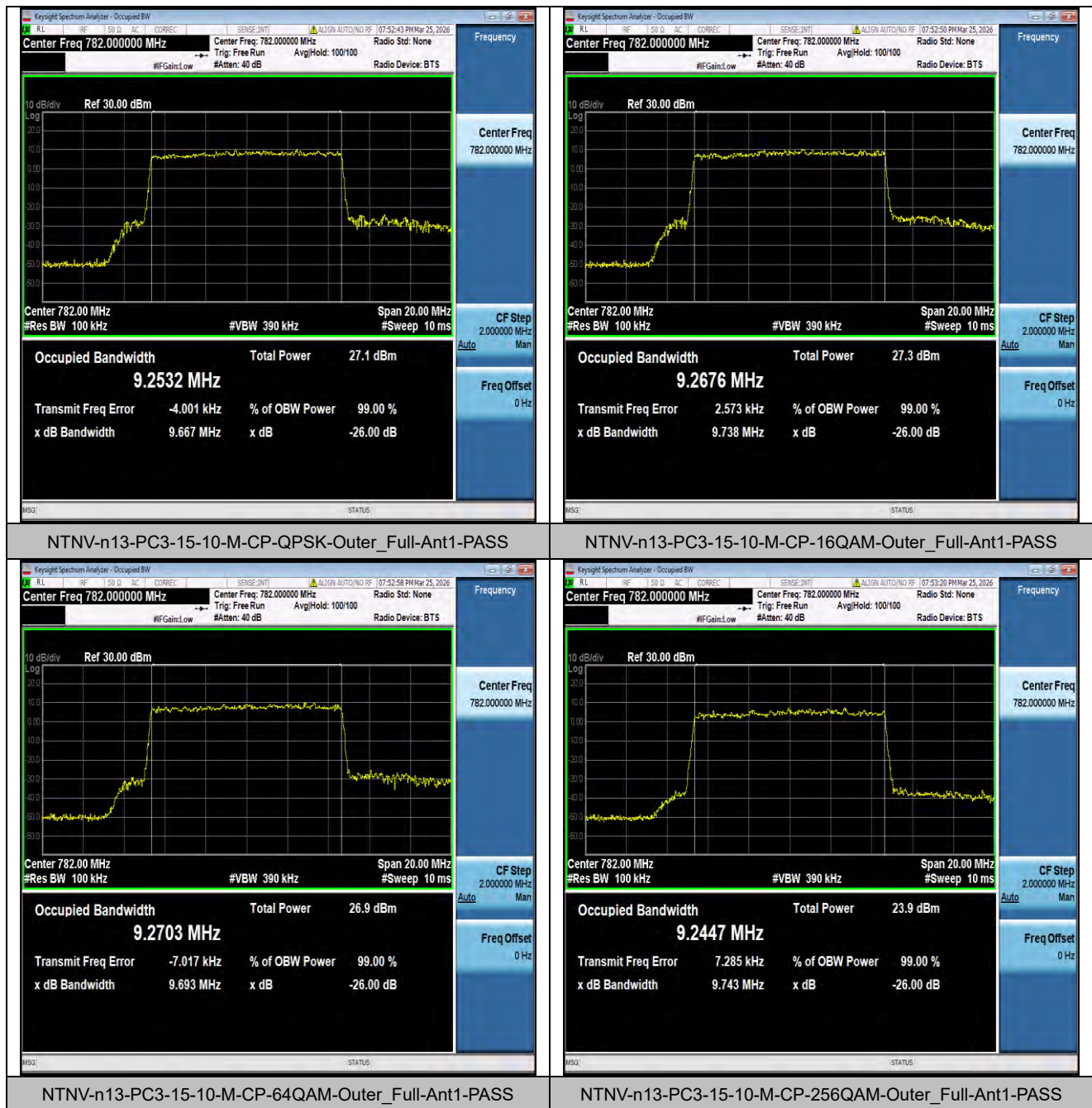






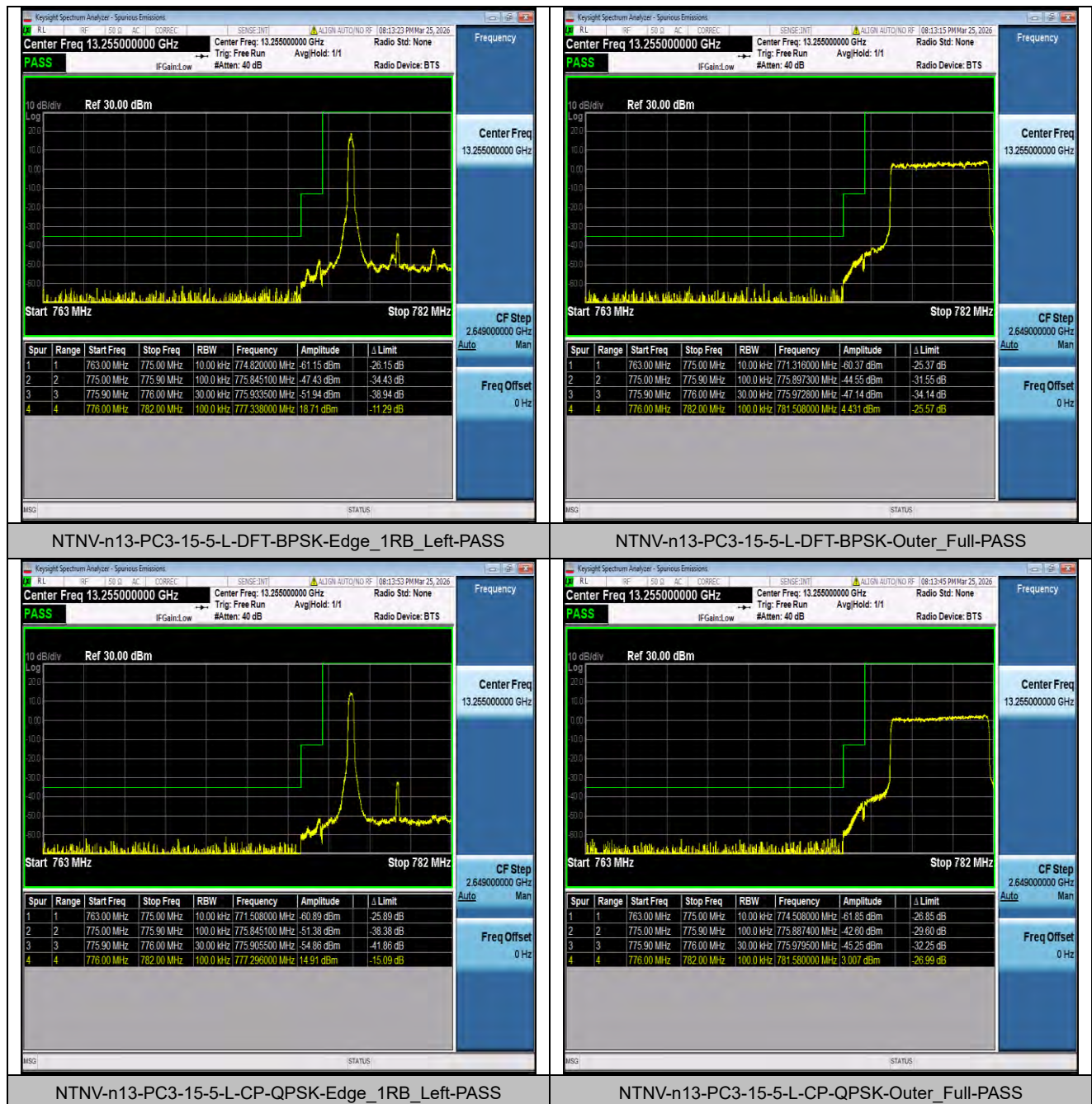


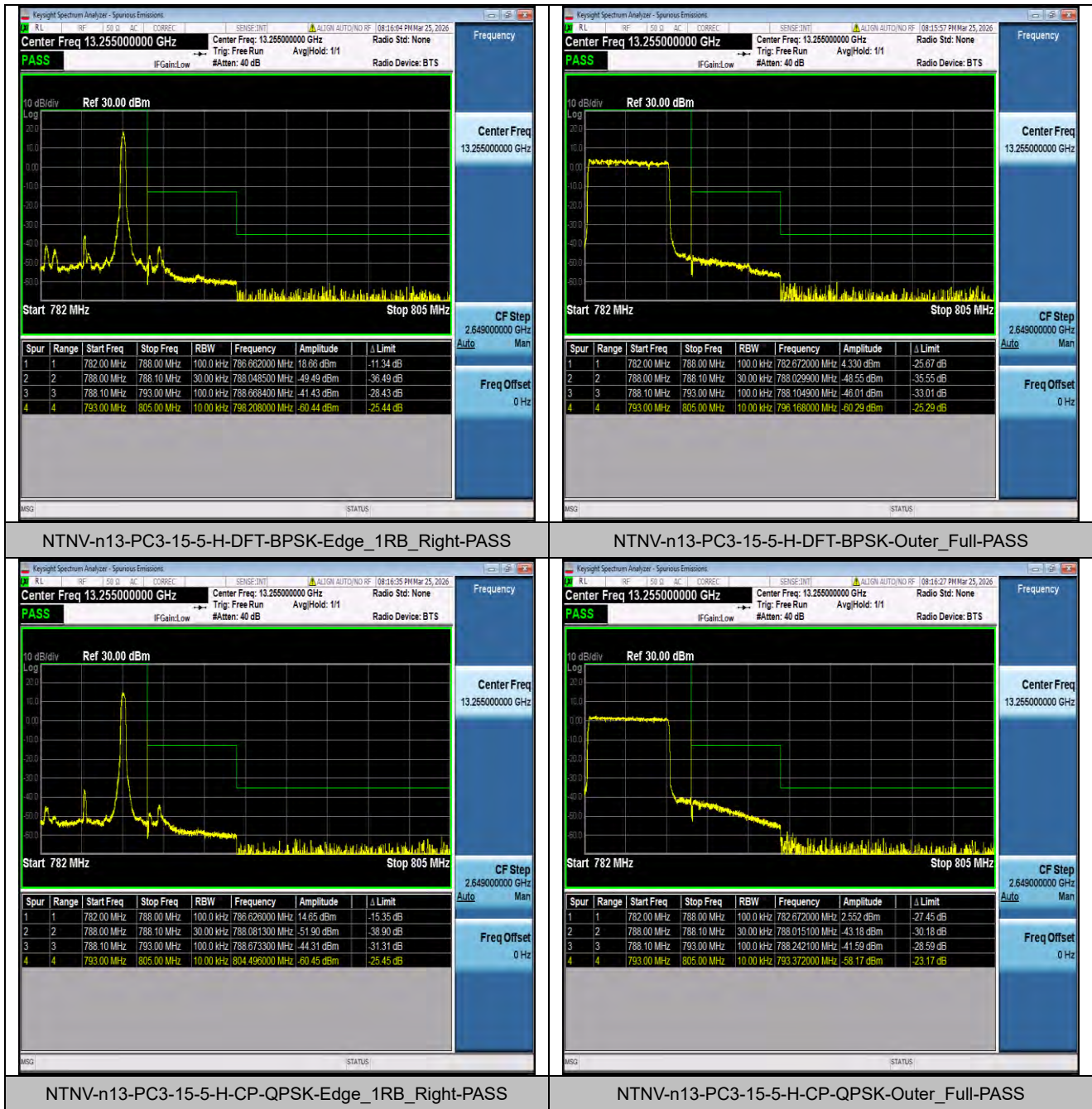


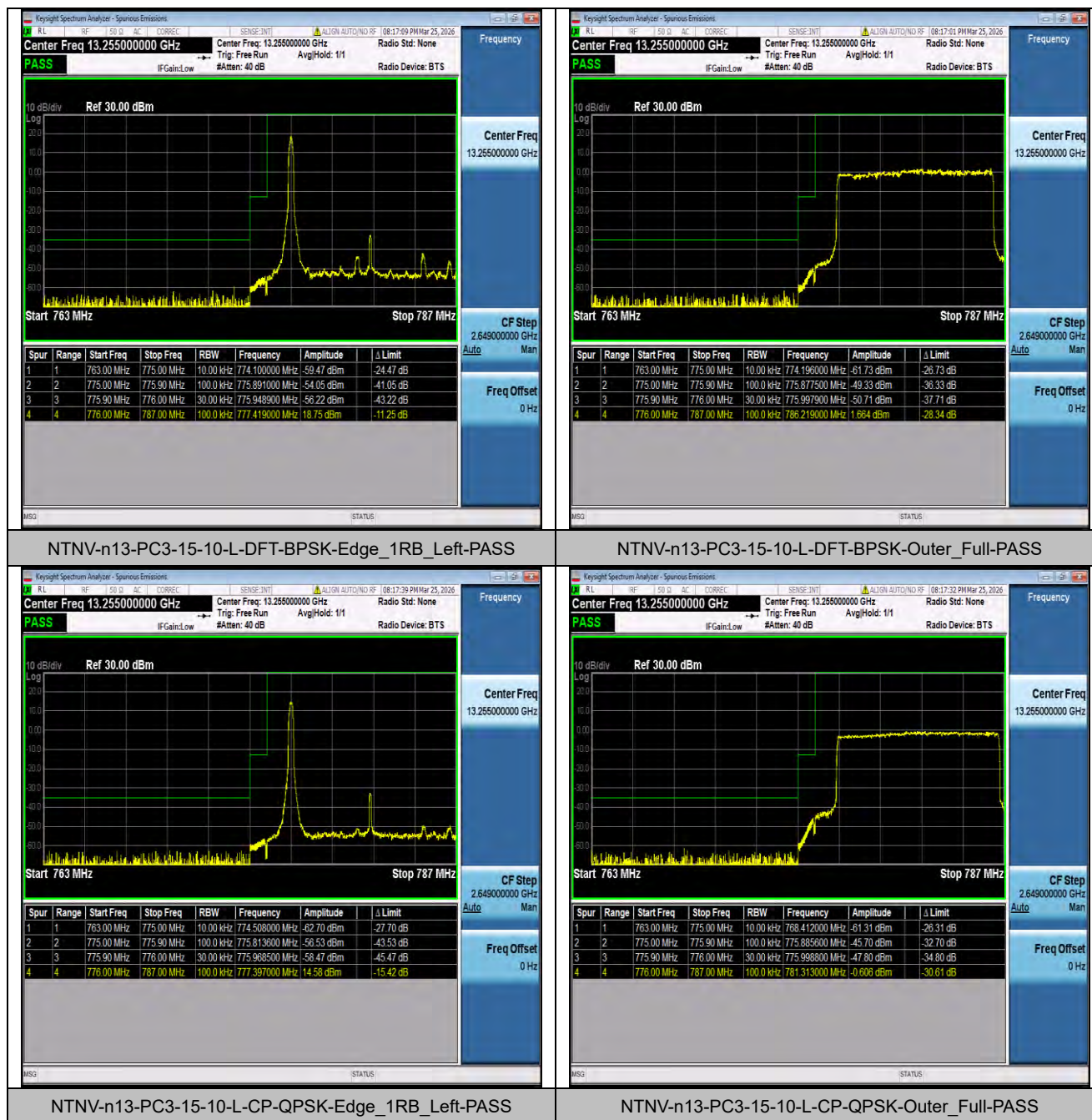


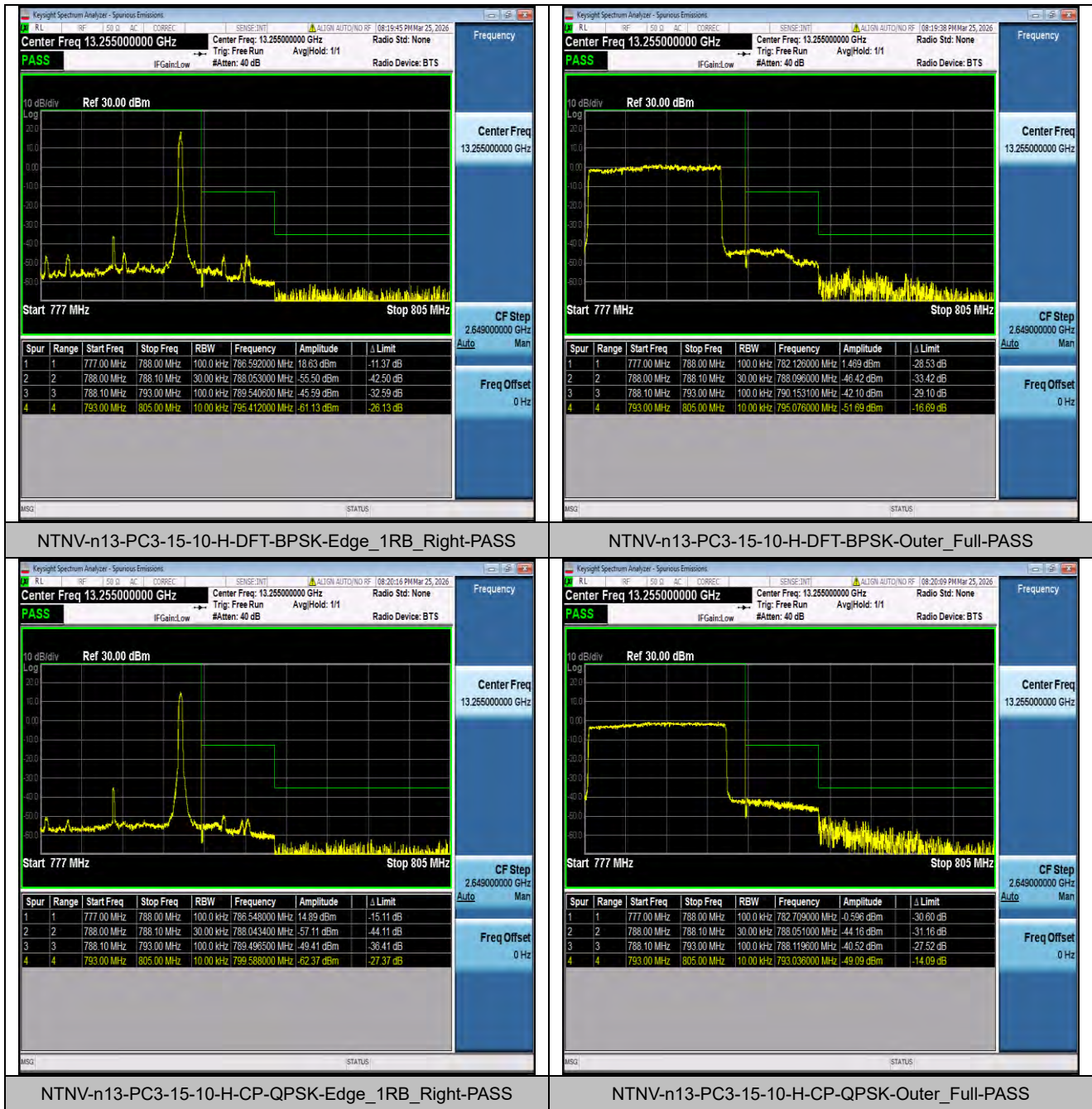
Band Edge for SA

Test Graphs



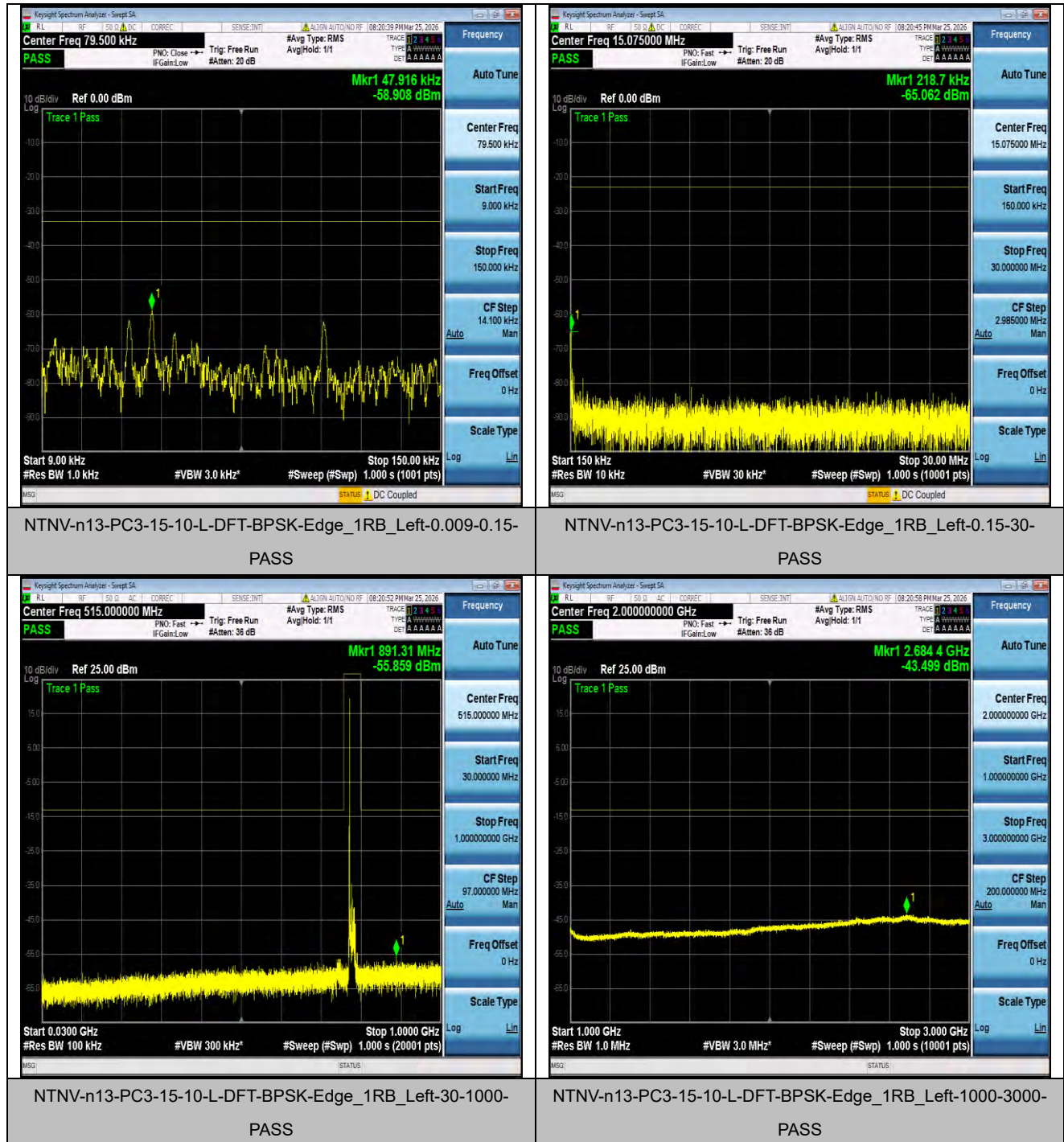


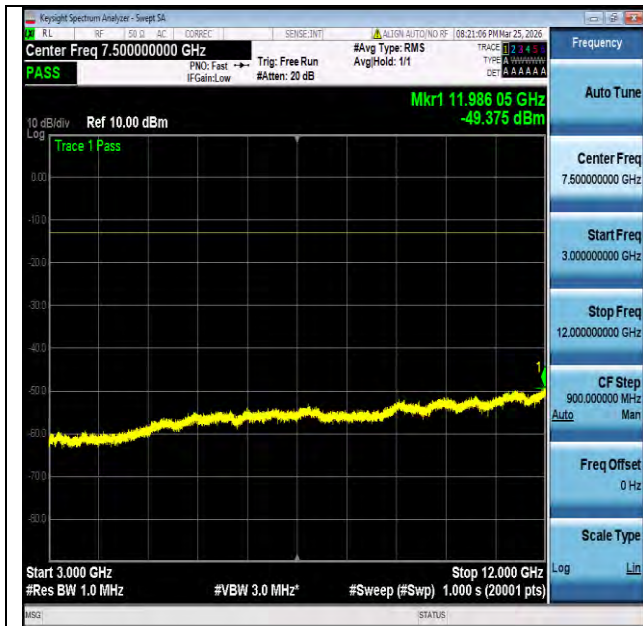




Conducted Spurious Emission for SA

Test Graphs

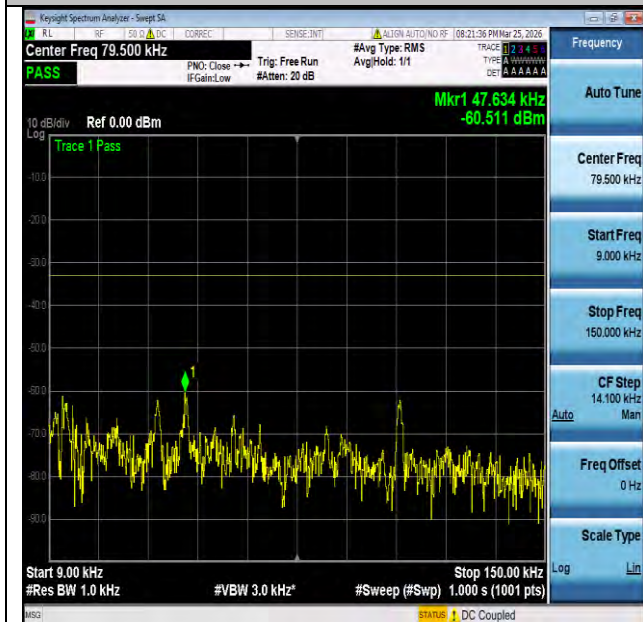




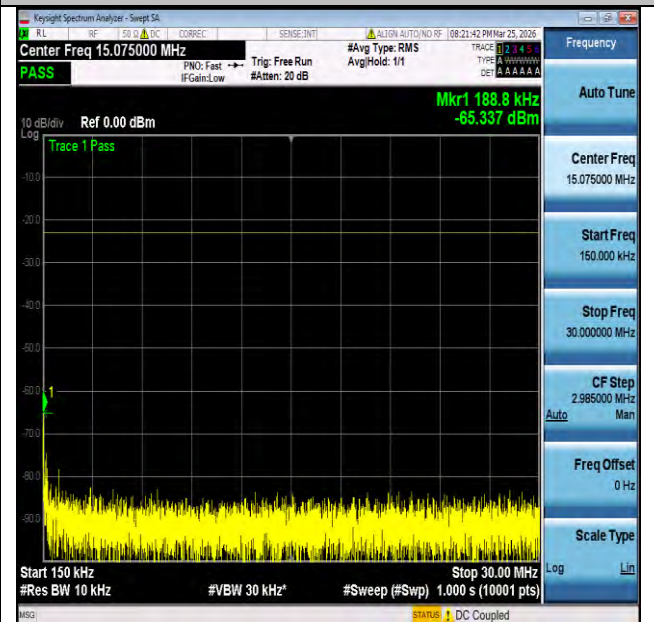
NTNV-n13-PC3-15-10-L-DFT-BPSK-Edge_1RB_Left-3000-12000-PASS



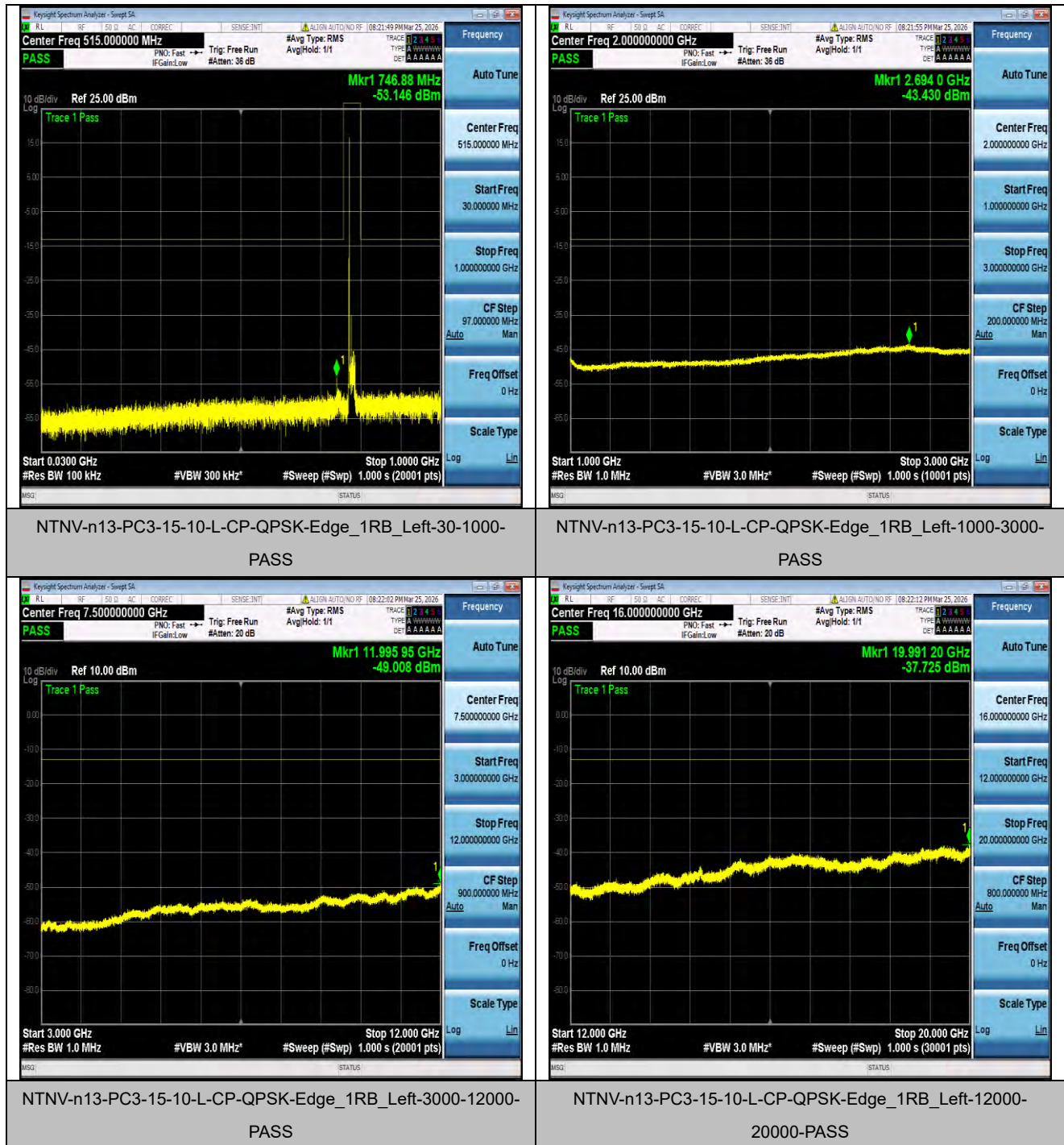
NTNV-n13-PC3-15-10-L-DFT-BPSK-Edge_1RB_Left-12000-20000-PASS

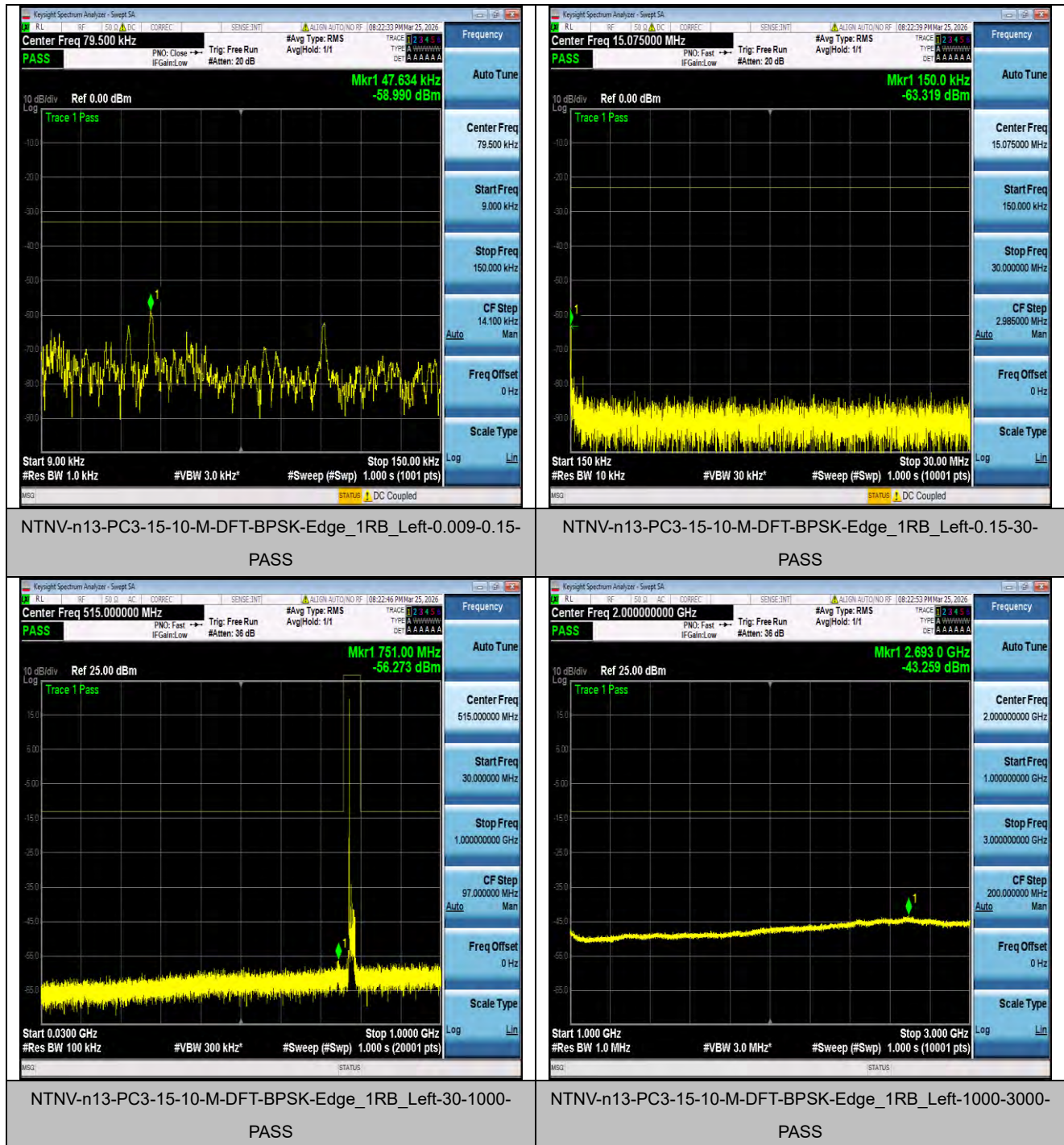


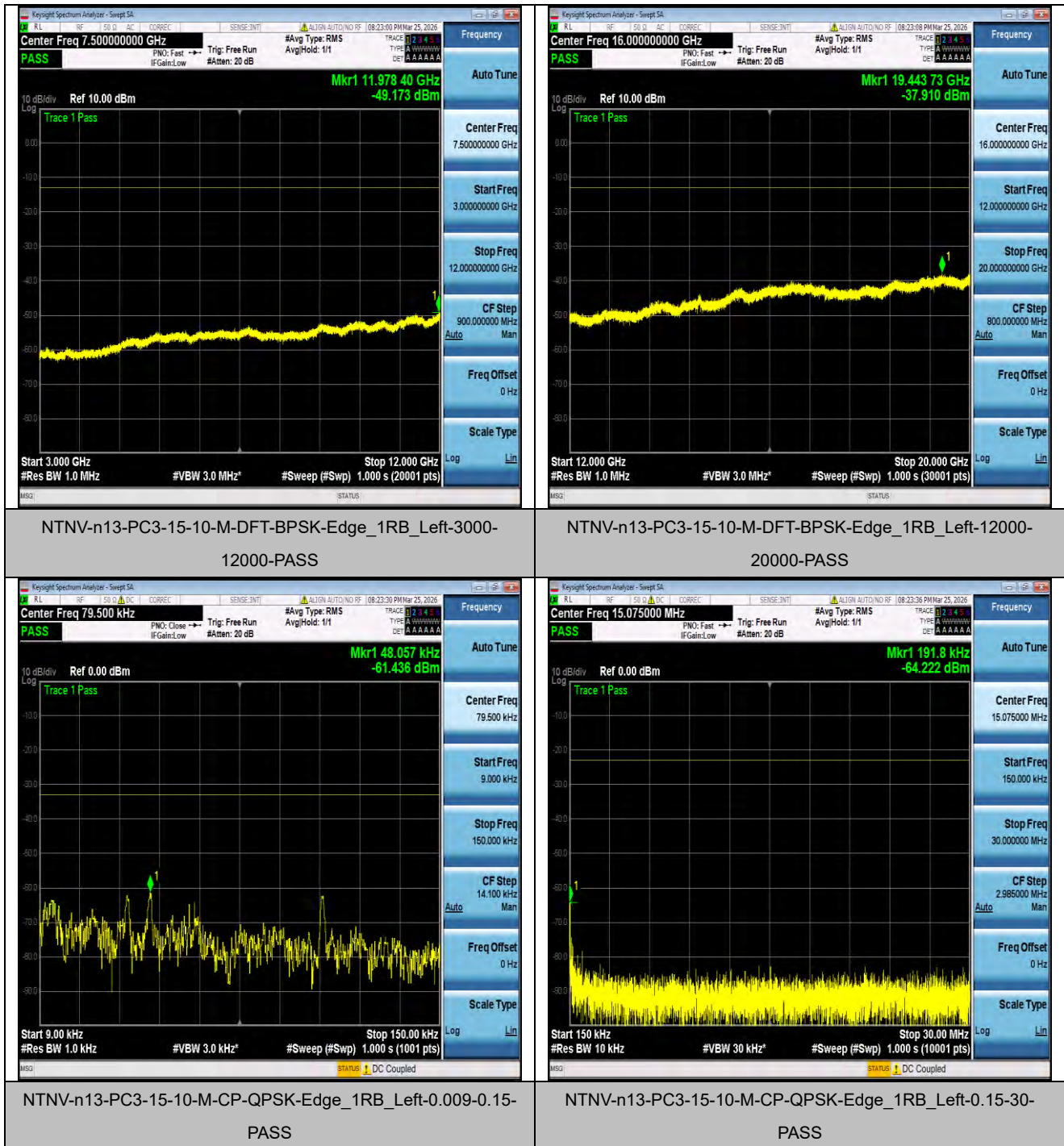
NTNV-n13-PC3-15-10-L-CP-QPSK-Edge_1RB_Left-0.009-0.15-PASS

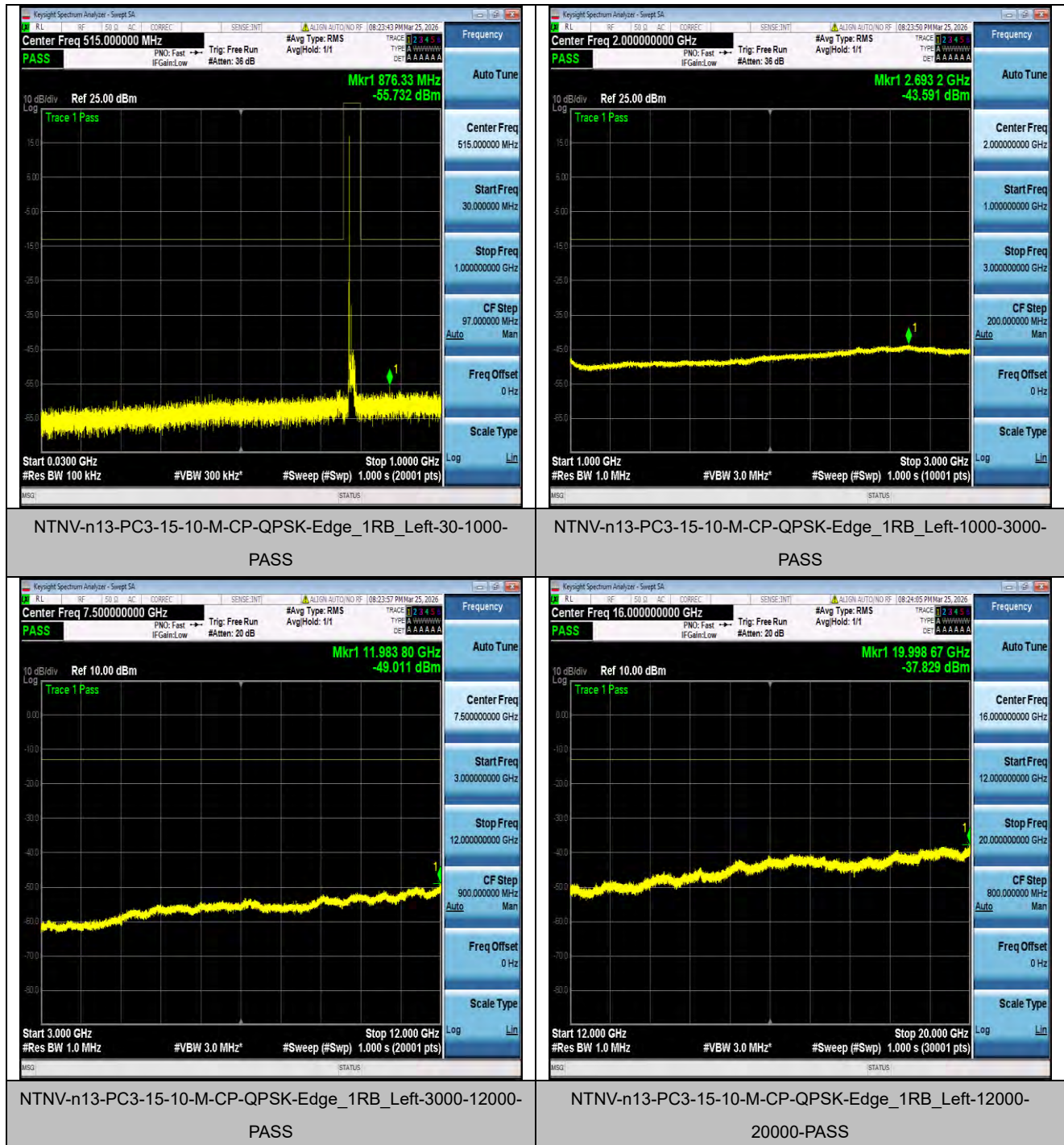


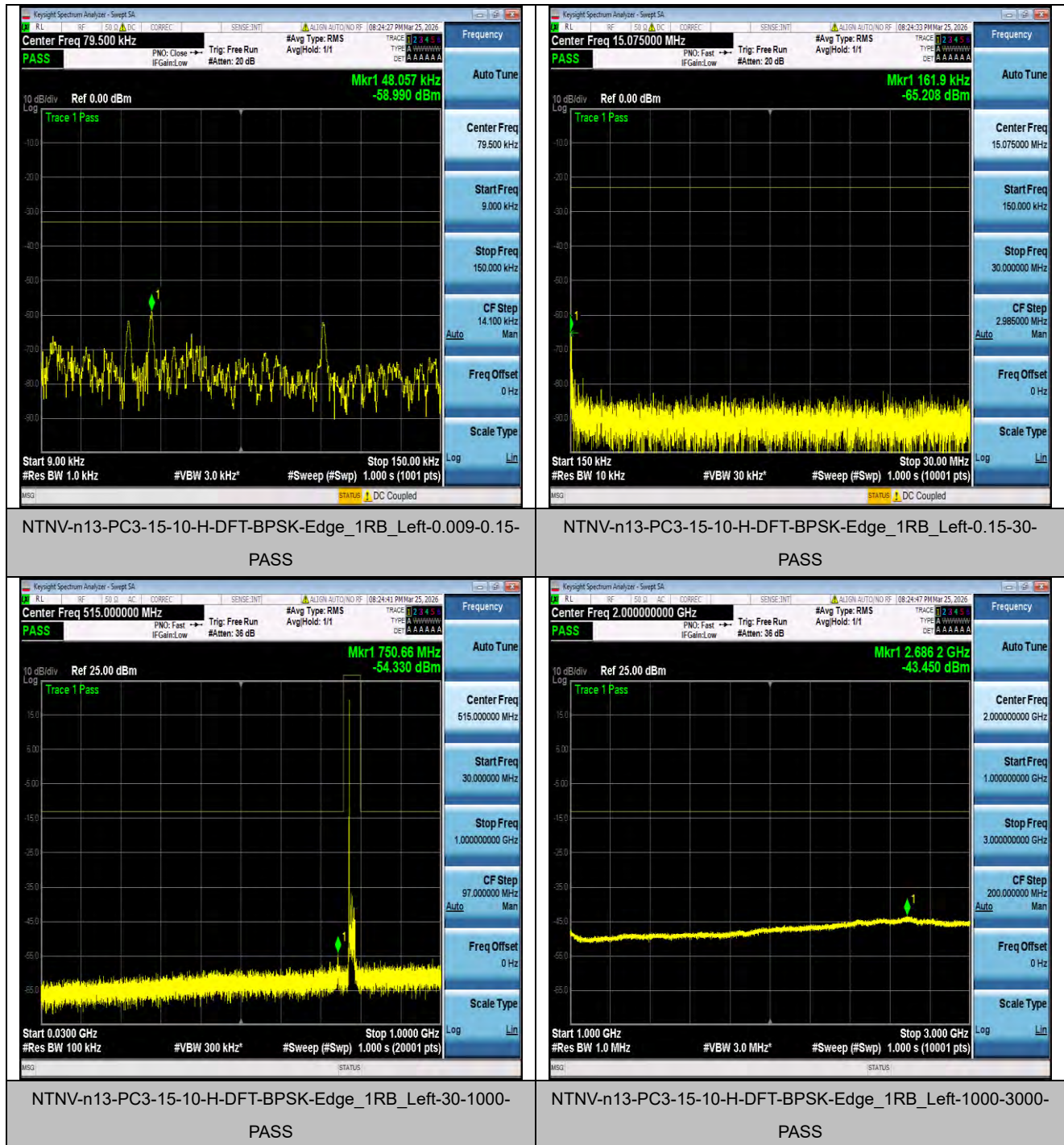
NTNV-n13-PC3-15-10-L-CP-QPSK-Edge_1RB_Left-0.15-30-PASS

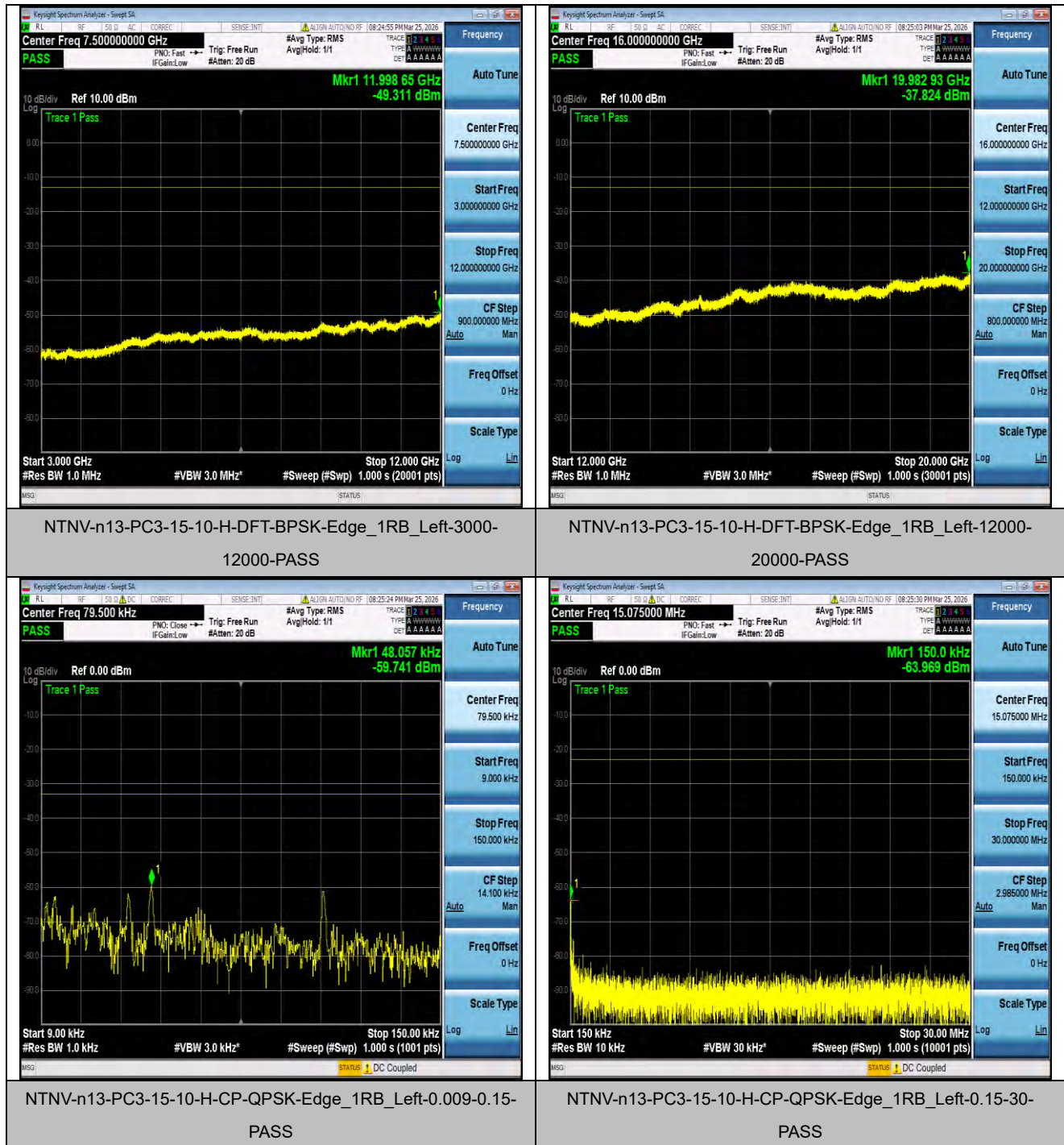


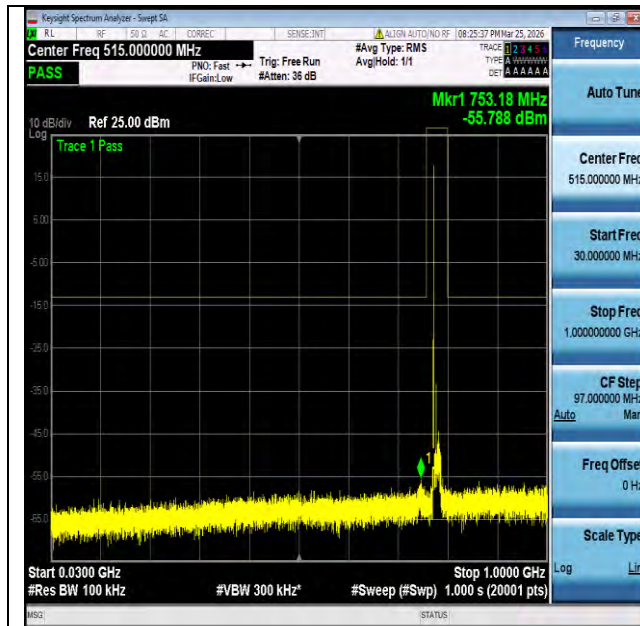




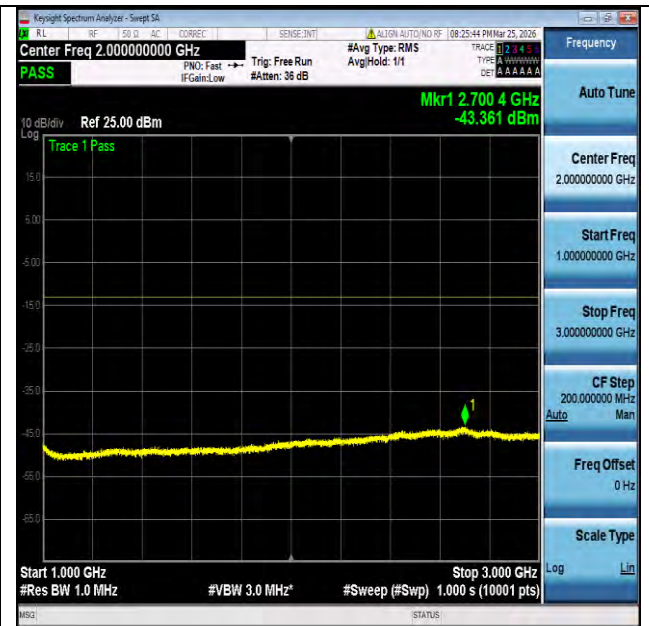








NTNV-n13-PC3-15-10-H-CP-QPSK-Edge_1RB_Left-30-1000-
PASS



NTNV-n13-PC3-15-10-H-CP-QPSK-Edge_1RB_Left-1000-3000-
PASS



NTNV-n13-PC3-15-10-H-CP-QPSK-Edge_1RB_Left-3000-12000-
PASS



NTNV-n13-PC3-15-10-H-CP-QPSK-Edge_1RB_Left-12000-
20000-PASS

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temp	Deviation (Hz)	Deviation (ppm)	Verdict
n13	15	10	DFT-BPSK	M	Outer_Full	VL	NT	-3.6	-0.004604	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	VN	NT	-5.2	-0.00665	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	VH	NT	-4.6	-0.005882	PASS
n13	15	10	CP-QPSK	M	Outer_Full	VL	NT	-3.3	-0.00422	PASS
n13	15	10	CP-QPSK	M	Outer_Full	VN	NT	-3.1	-0.003964	PASS
n13	15	10	CP-QPSK	M	Outer_Full	VH	NT	-3.1	-0.003964	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temp	Deviation (Hz)	Deviation (ppm)	Verdict
n13	15	10	DFT-BPSK	M	Outer_Full	NV	-30	-6.8	-0.008696	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	-20	-6.4	-0.008184	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	-10	-4.9	-0.006266	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	0	-5	-0.006394	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	10	-5.8	-0.007417	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	20	-5.2	-0.00665	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	30	-5.2	-0.00665	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	40	-7.8	-0.009974	PASS
n13	15	10	DFT-BPSK	M	Outer_Full	NV	50	-2.9	-0.003708	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	-30	-4.4	-0.005627	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	-20	-2.8	-0.003581	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	-10	-3.8	-0.004859	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	0	-2.7	-0.003453	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	10	-4.8	-0.006138	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	20	-2.6	-0.003325	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	30	-2.4	-0.003069	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	40	-3.2	-0.004092	PASS
n13	15	10	CP-QPSK	M	Outer_Full	NV	50	-0.7	-0.000895	PASS

~The End~