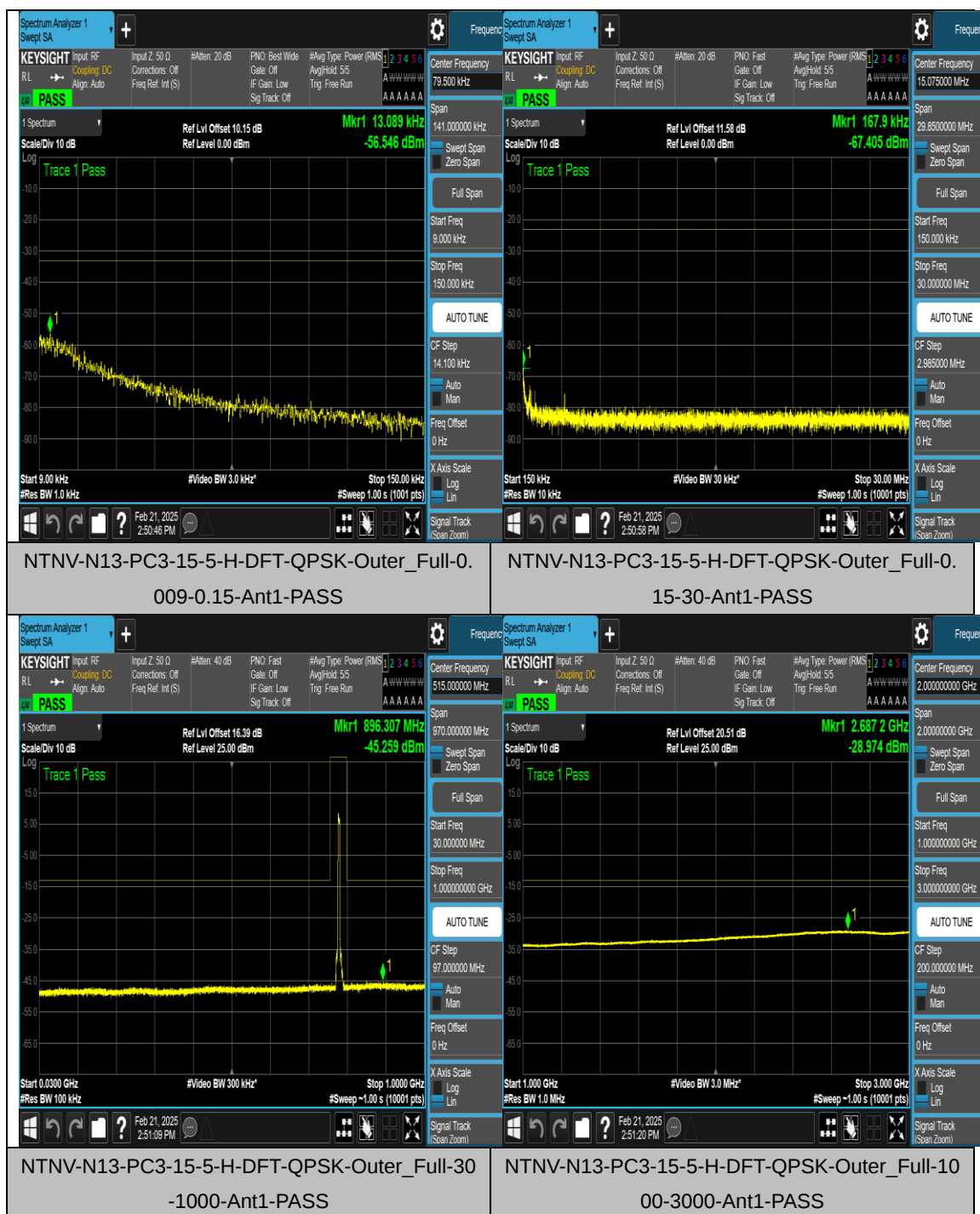
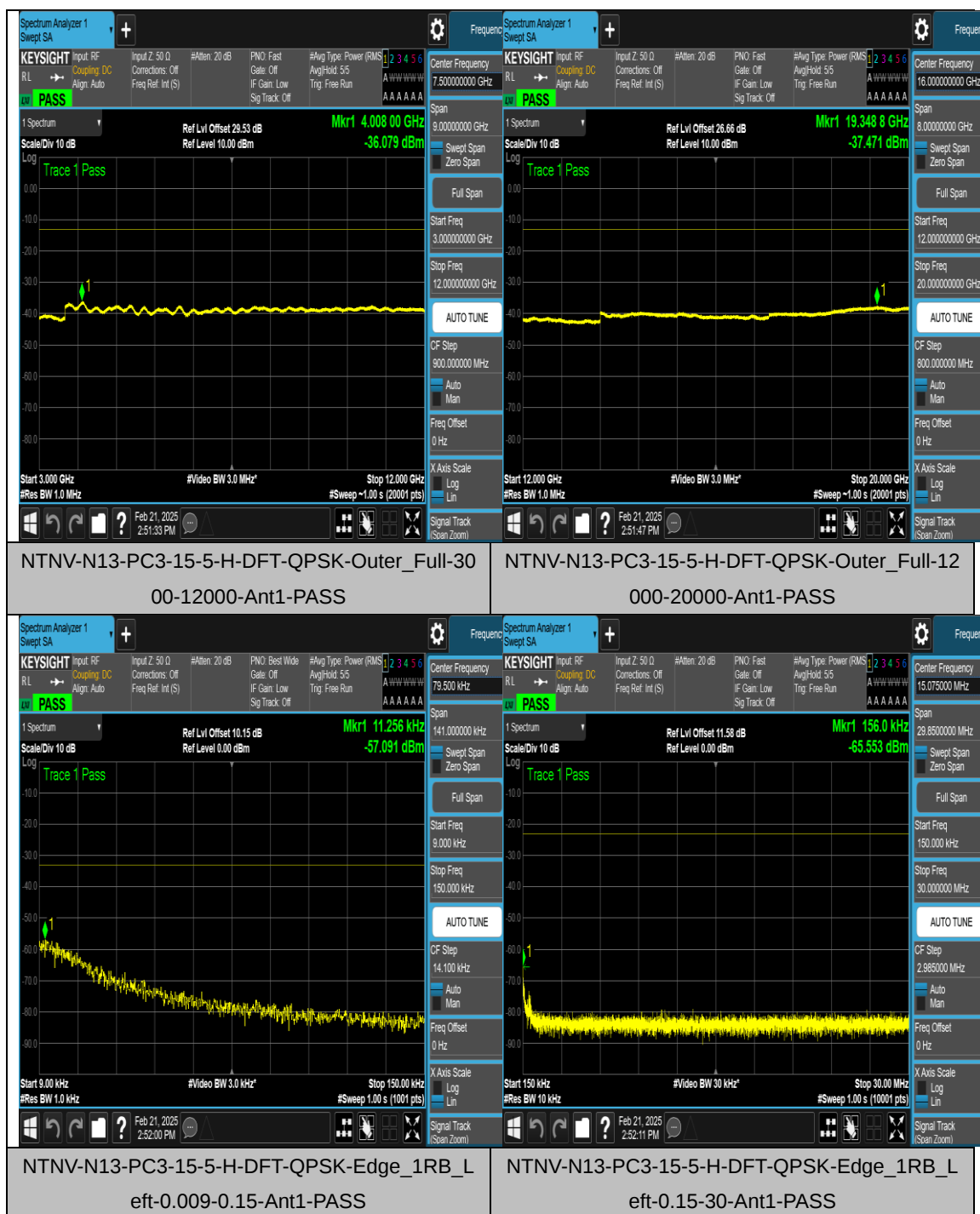
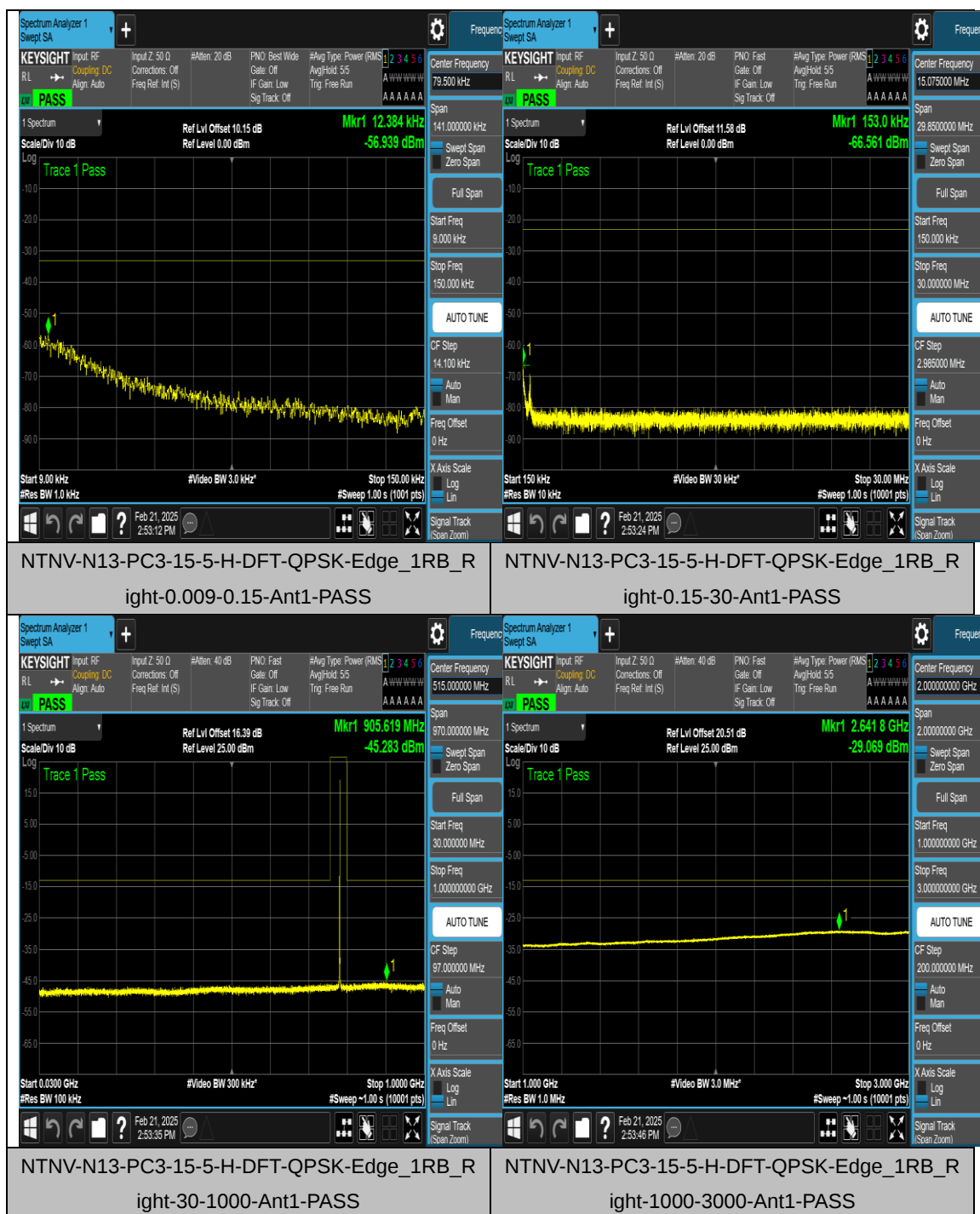




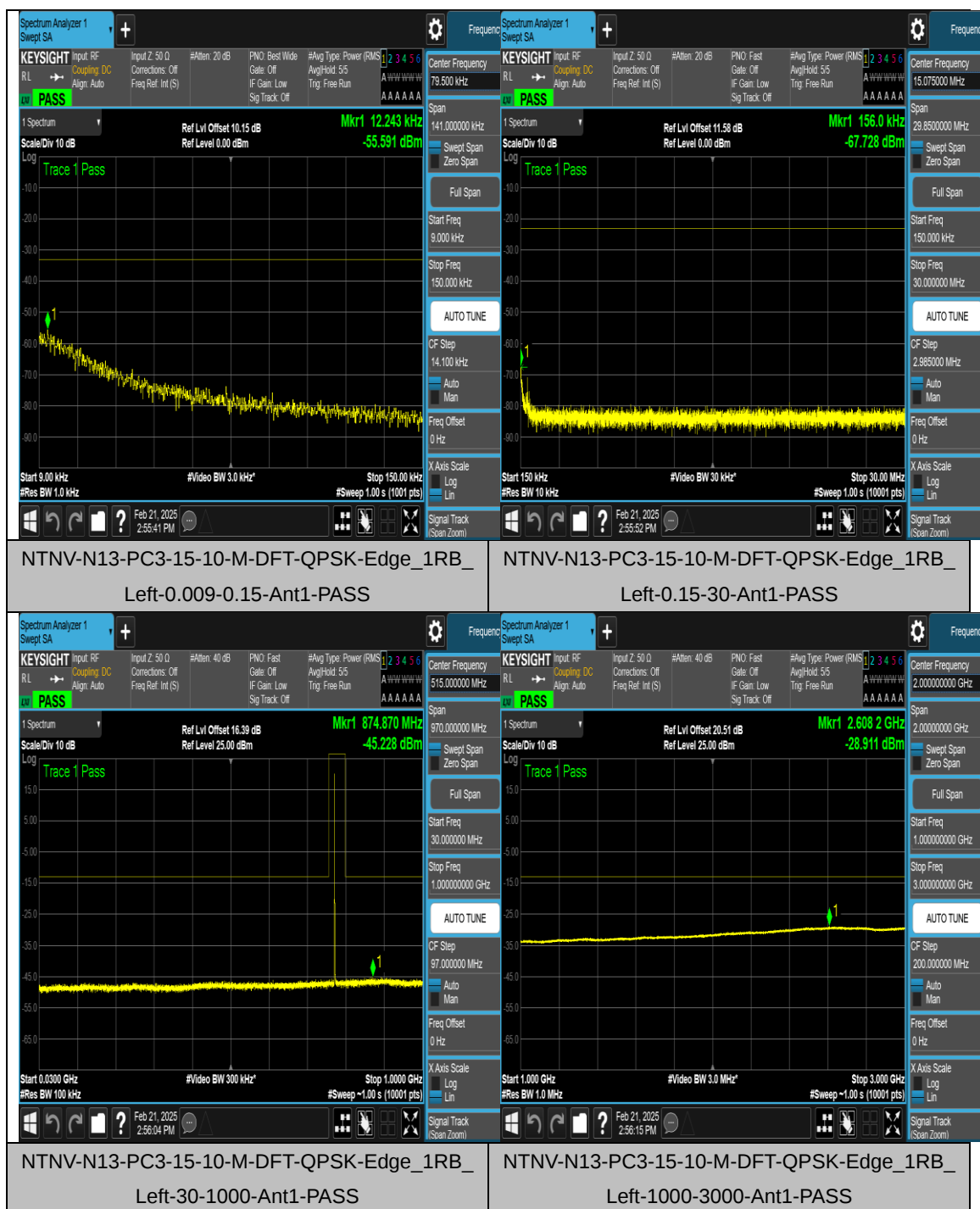


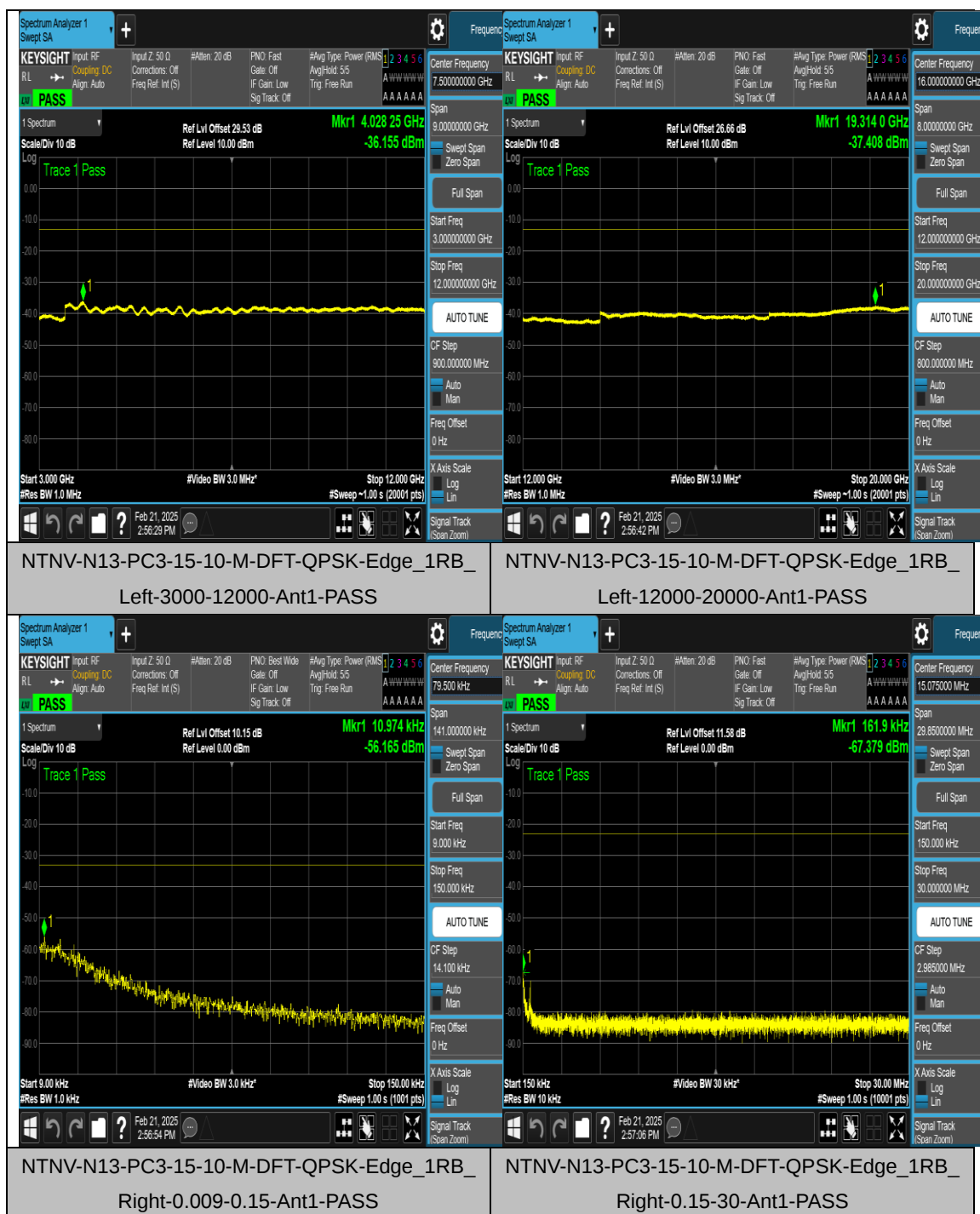














Appendix F: Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N13	15	5	DFT-QPSK	L	Outer_Full	VL	NT	0.080000	0.000103	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	VN	NT	0.110000	0.000141	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	VH	NT	1.090000	0.001398	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	VL	NT	0.900000	0.001155	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	VN	NT	0.430000	0.000552	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	VH	NT	1.430000	0.001835	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	VL	NT	0.130000	0.000166	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	VN	NT	1.200000	0.001535	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	VH	NT	0.280000	0.000358	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	VL	NT	-0.470000	-0.000601	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	VN	NT	0.660000	0.000844	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	VH	NT	0.950000	0.001215	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	VL	NT	0.660000	0.000841	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	VN	NT	0.200000	0.000255	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	VH	NT	0.490000	0.000625	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	VL	NT	1.310000	0.001670	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	VN	NT	-0.480000	-0.000612	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	VH	NT	-0.560000	-0.000714	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	VL	NT	0.770000	0.000985	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	VN	NT	1.420000	0.001816	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	VH	NT	0.350000	0.000448	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	VL	NT	0.690000	0.000882	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	VN	NT	0.330000	0.000422	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	VH	NT	0.490000	0.000627	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N13	15	5	DFT-QPSK	L	Outer_Full	NV	-30	0.350000	0.000449	PASS

N13	15	5	DFT-QPSK	L	Outer_Full	NV	-20	-0.850000	-0.001090	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	-10	-0.740000	-0.000949	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	0	-0.230000	-0.000295	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	10	0.730000	0.000936	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	20	0.100000	0.000128	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	30	0.030000	0.000038	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	40	-0.840000	-0.001078	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	50	-0.240000	-0.000308	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	-30	-0.180000	-0.000231	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	-20	0.910000	0.001167	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	-10	-0.150000	-0.000192	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	0	-0.450000	-0.000577	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	10	1.650000	0.002117	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	20	1.400000	0.001796	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	30	0.750000	0.000962	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	40	-0.290000	-0.000372	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	50	-0.360000	-0.000462	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	-30	-0.230000	-0.000294	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	-20	0.320000	0.000409	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	-10	-1.040000	-0.001330	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	0	-0.200000	-0.000256	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	10	0.450000	0.000575	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	20	-0.570000	-0.000729	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	30	0.340000	0.000435	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	40	0.120000	0.000153	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	50	1.930000	0.002468	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	-30	0.270000	0.000345	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	-20	-0.490000	-0.000627	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	-10	0.140000	0.000179	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	0	0.370000	0.000473	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	10	1.080000	0.001381	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	20	-0.300000	-0.000384	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	30	0.820000	0.001049	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	40	-0.610000	-0.000780	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	50	-0.280000	-0.000358	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	-30	-0.130000	-0.000166	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	-20	0.410000	0.000523	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	-10	-0.050000	-0.000064	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	0	-0.730000	-0.000931	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	10	0.070000	0.000089	PASS

N13	15	5	DFT-QPSK	H	Outer_Full	NV	20	0.830000	0.001058	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	30	0.050000	0.000064	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	40	0.450000	0.000574	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	50	-0.120000	-0.000153	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	-30	0.920000	0.001173	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	-20	0.530000	0.000676	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	-10	0.130000	0.000166	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	0	-0.990000	-0.001262	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	10	0.480000	0.000612	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	20	-0.330000	-0.000421	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	30	0.560000	0.000714	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	40	0.600000	0.000765	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	50	0.150000	0.000191	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	-30	0.740000	0.000946	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	-20	0.150000	0.000192	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	-10	1.570000	0.002007	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	0	0.620000	0.000793	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	10	0.160000	0.000205	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	20	1.280000	0.001637	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	30	-0.180000	-0.000230	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	40	0.280000	0.000358	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	50	-0.660000	-0.000844	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	-30	-0.110000	-0.000141	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	-20	-0.150000	-0.000192	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	-10	-0.900000	-0.001151	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	0	-0.500000	-0.000639	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	10	0.700000	0.000895	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	20	0.880000	0.001125	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	30	0.160000	0.000205	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	40	0.140000	0.000179	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	50	1.040000	0.001330	PASS