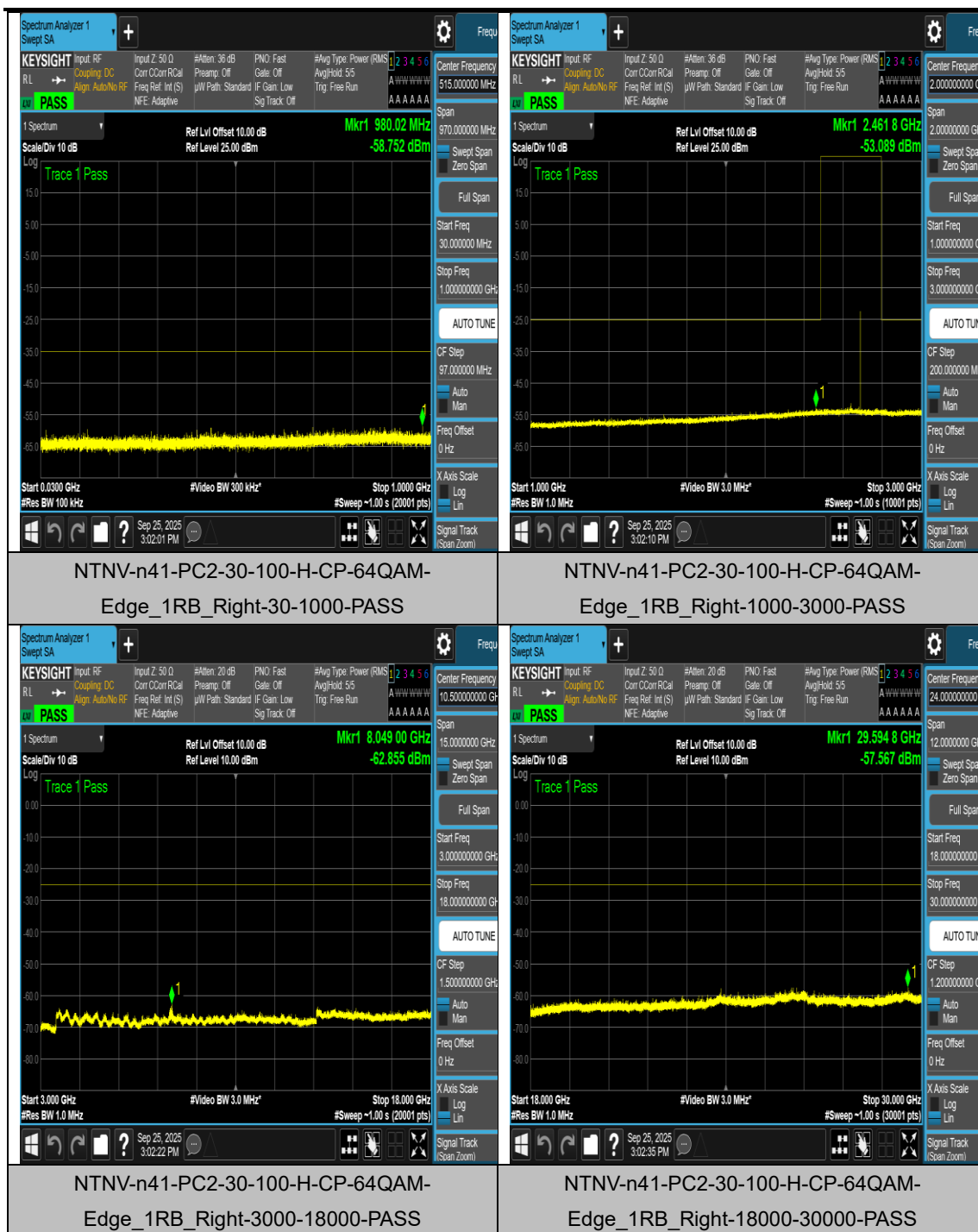
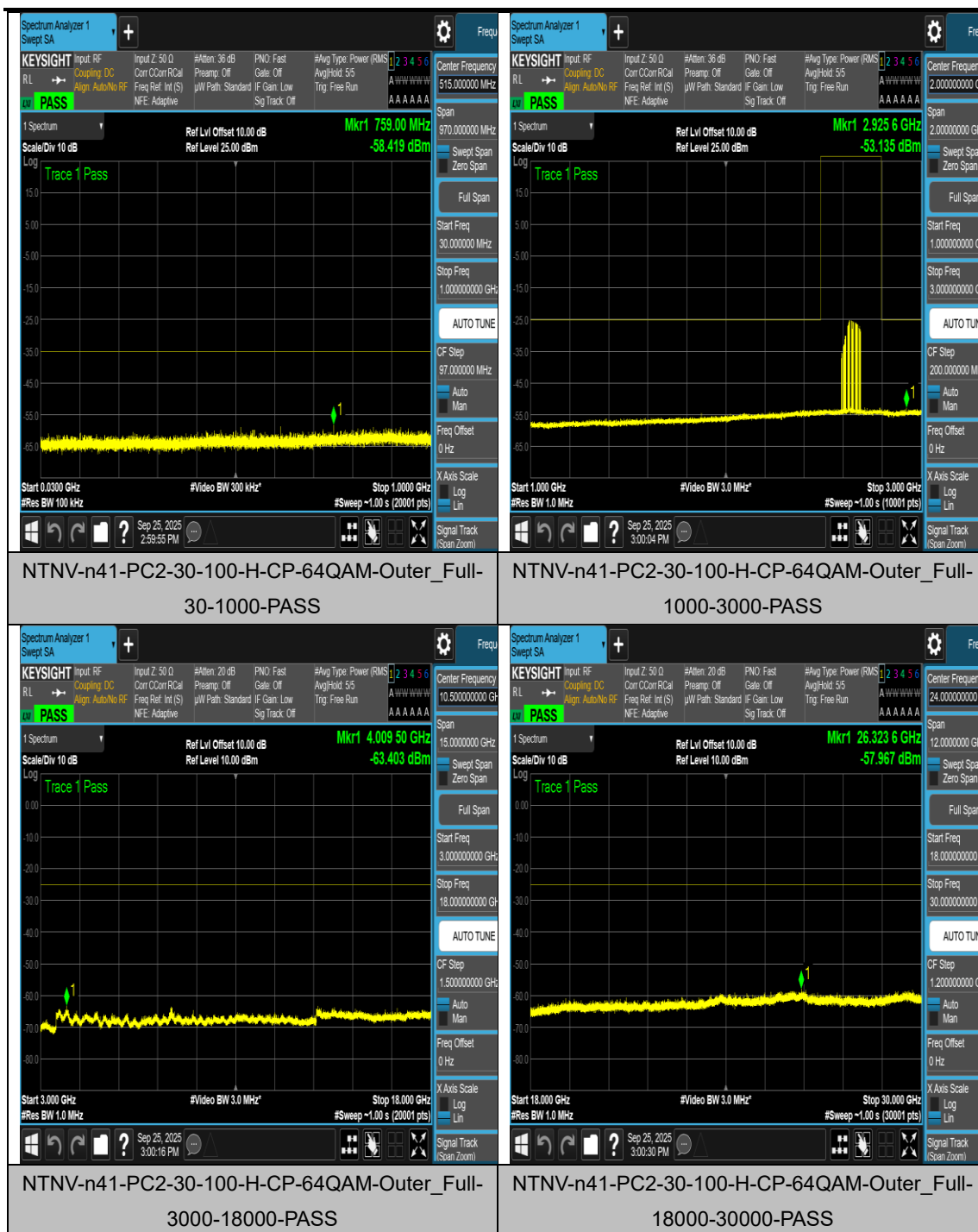
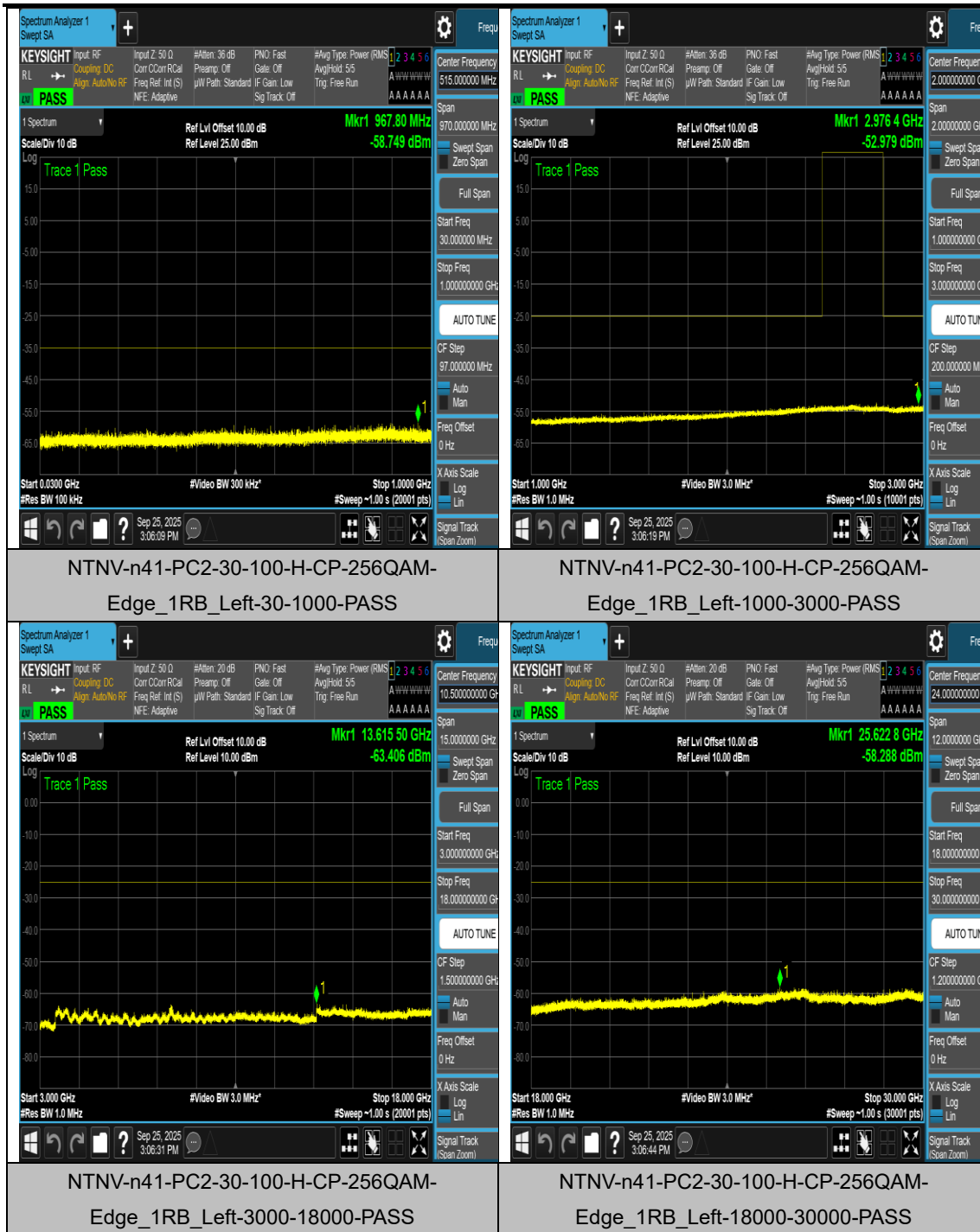
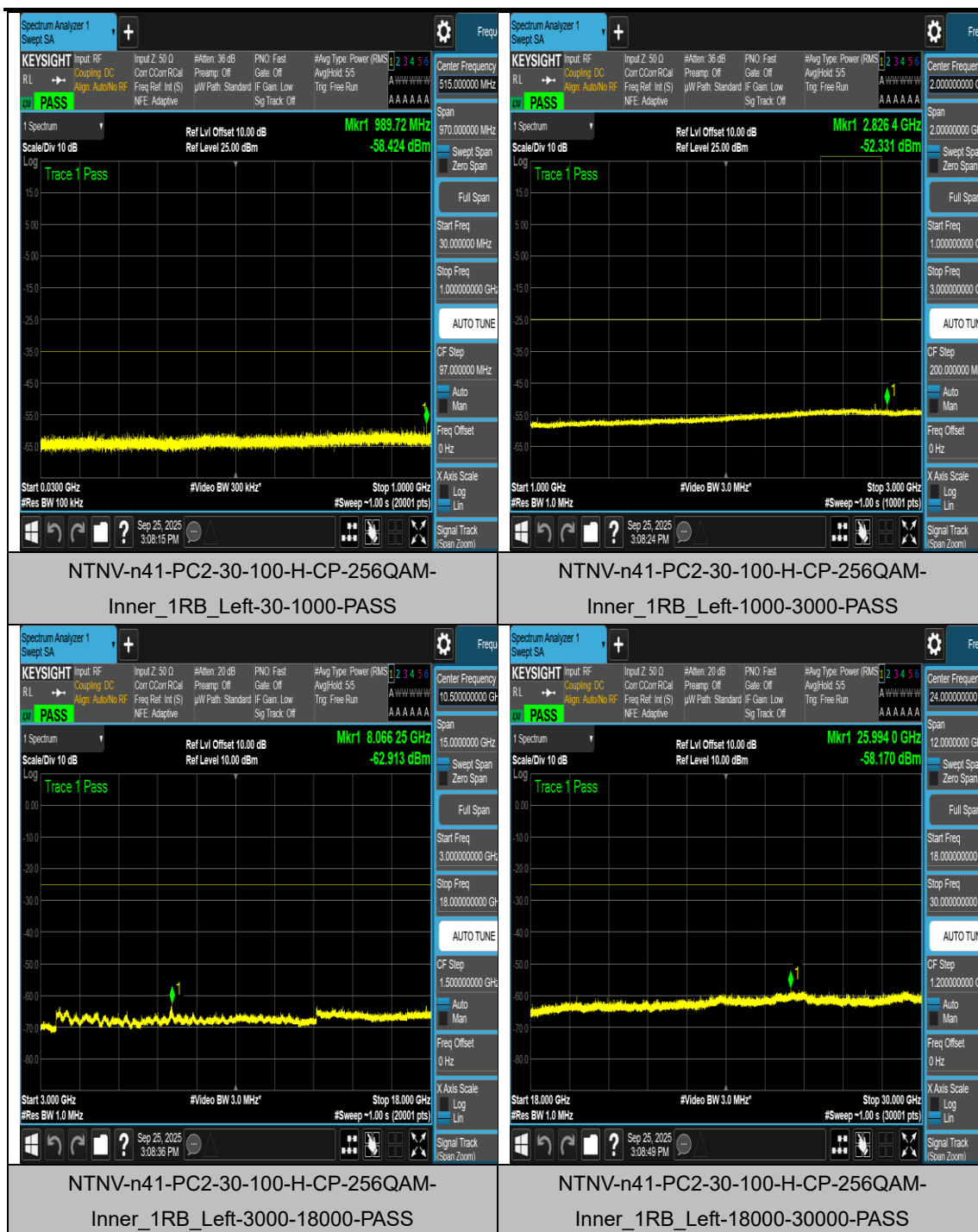
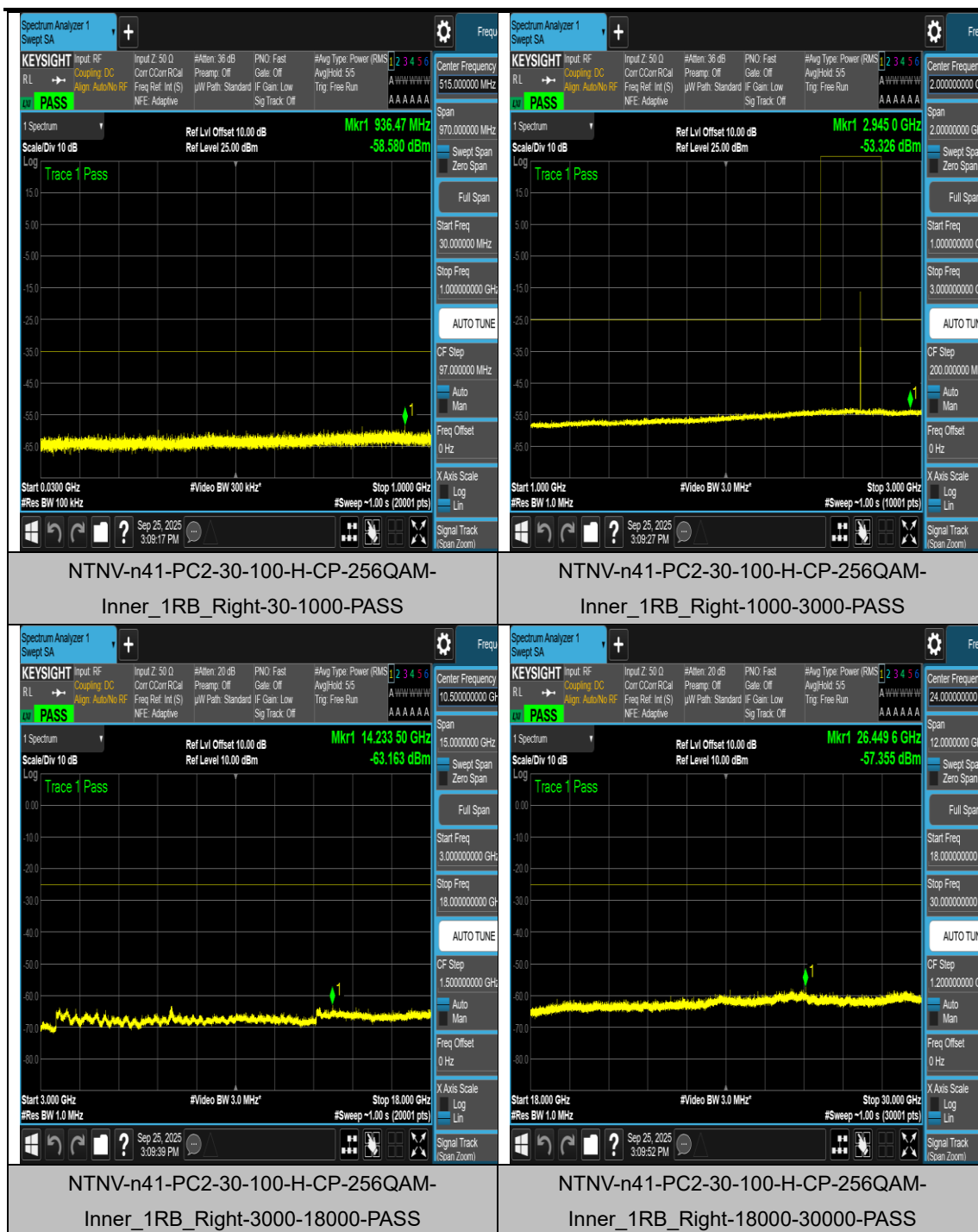


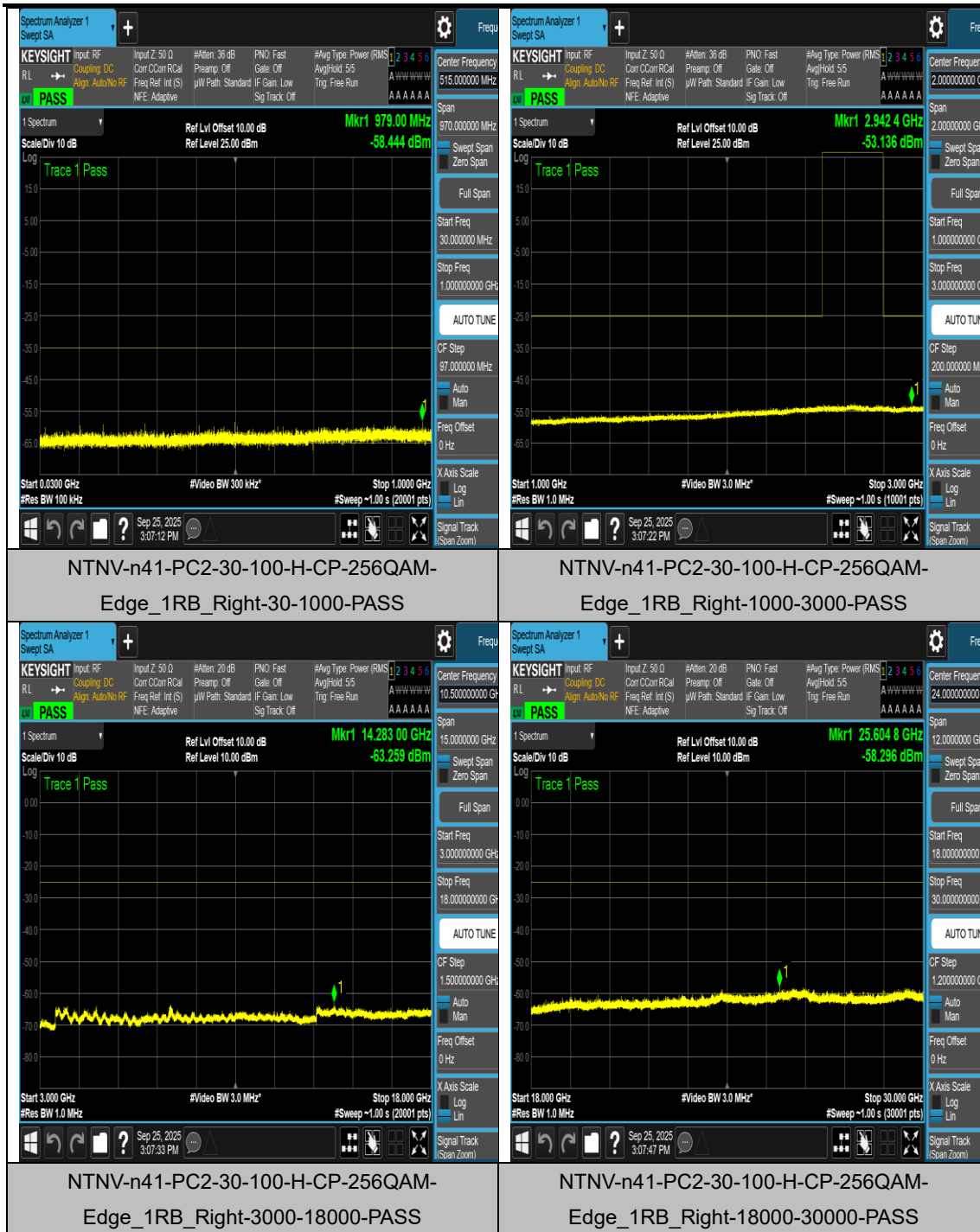


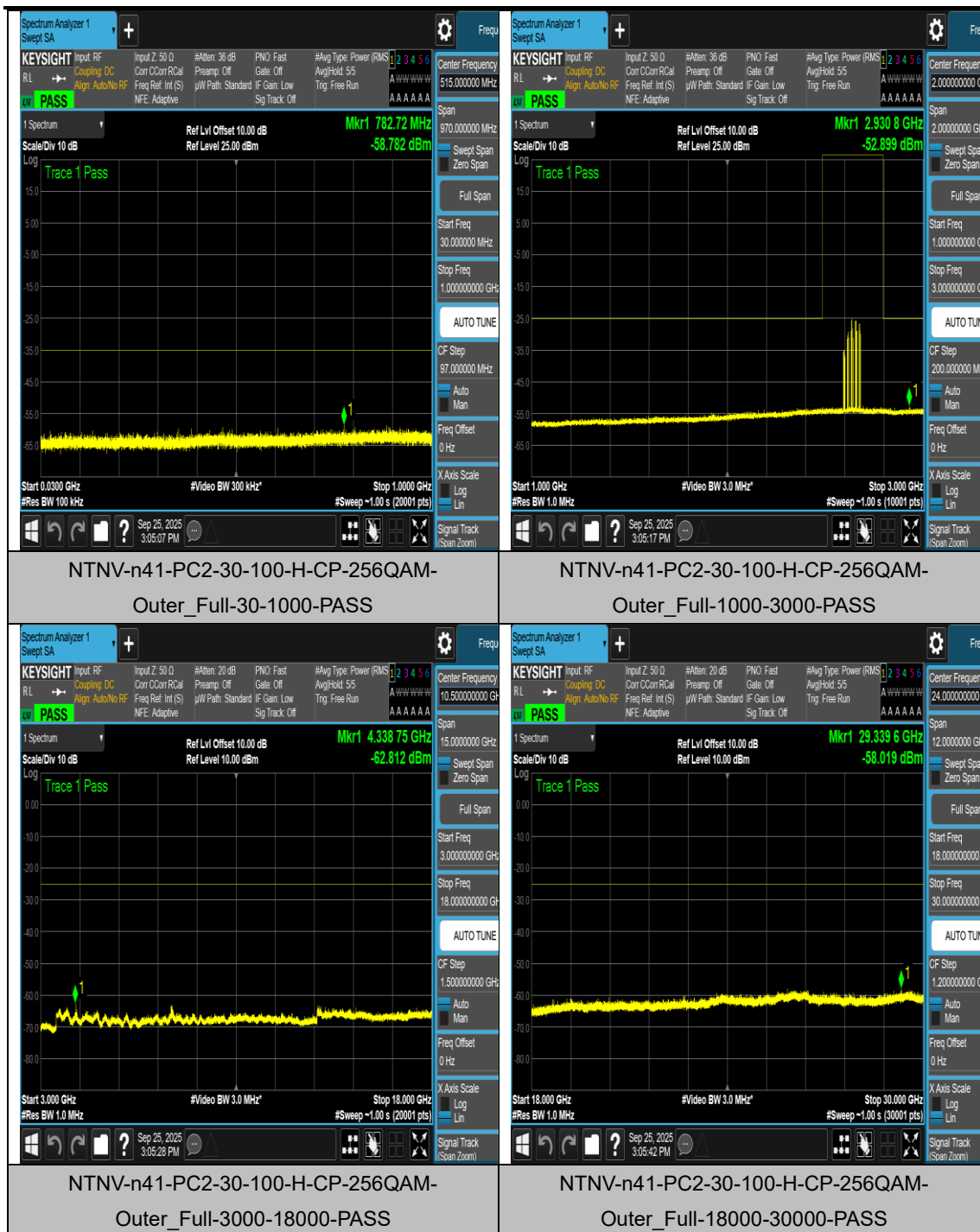












Appendix F: Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage													
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Result (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
n41	30	10	DFT-BPSK	L	Outer_Full	VL	NT	- 0.0061 64	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-BPSK	L	Outer_Full	VN	NT	- 0.0044 05	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-BPSK	L	Outer_Full	VH	NT	- 0.0029 52	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	VL	NT	- 0.0040 32	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	VN	NT	- 0.0035 39	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	VH	NT	- 0.0032 72	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-16QAM	L	Outer_Full	VL	NT	- 0.0033 3	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-16QAM	L	Outer_Full	VN	NT	- 0.0033 48	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-16QAM	L	Outer_Full	VH	NT	- 0.0032 48	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-64QAM	L	Outer_Full	VL	NT	- 0.0039 15	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-64QAM	L	Outer_Full	VN	NT	- 0.0037 38	- 2.5~2.5 5	2496	2690	---	PASS
n41	30	10	DFT-64QAM	L	Outer_Full	VH	NT	- 0.0039 27	- 2.5~2.5 5	2496	2690	---	PASS

n41	30	10	DFT-256Q AM	L	Outer_Full	VL	NT	- 0.00419	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256Q AM	L	Outer_Full	VN	NT	- 0.003754	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256Q AM	L	Outer_Full	VH	NT	- 0.004957	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	VL	NT	- 0.003957	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	VN	NT	- 0.005416	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	VH	NT	- 0.003777	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QA M	L	Outer_Full	VL	NT	- 0.003449	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QA M	L	Outer_Full	VN	NT	- 0.004833	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QA M	L	Outer_Full	VH	NT	- 0.003447	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-64QA M	L	Outer_Full	VL	NT	- 0.003352	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-64QA M	L	Outer_Full	VN	NT	- 0.003236	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-64QA M	L	Outer_Full	VH	NT	- 0.003113	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-256Q AM	L	Outer_Full	VL	NT	- 0.003424	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-256Q AM	L	Outer_Full	VN	NT	- 0.004435	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-256Q	L	Outer_Full	VH	NT	- 0.0058	- 2.5~2.5	2496	2690	---	PASS

			AM					97	5				
n41	30	100	CP-64QAM	H	Outer_Full	VL	NT	-0.003308	-2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	VN	NT	-0.004016	-2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	VH	NT	-0.00513	-2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	VL	NT	-0.004711	-2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	VN	NT	-0.005986	-2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	VH	NT	-0.00557	-2.5~2.5	2496	2690	---	PASS

Frequency Error VS. Temperature

Temperature													
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Result (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
n41	30	10	DFT-BPSK	L	Outer_Full	NV	-30	-0.002817	-2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-BPSK	L	Outer_Full	NV	-20	-0.001769	-2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-BPSK	L	Outer_Full	NV	-10	-0.004755	-2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-BPSK	L	Outer_Full	NV	0	-0.002715	-2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-BPSK	L	Outer_Full	NV	10	-0.003369	-2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-BPSK	L	Outer_Full	NV	20	-0.0052	-2.5~2.5	2496	2690	---	PASS

								98	5				
n41	30	10	DFT-BPSK	L	Outer_Full	NV	30	- 0.0030 48	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-BPSK	L	Outer_Full	NV	40	- 0.0037 1	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-BPSK	L	Outer_Full	NV	50	- 0.0030 09	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	NV	-30	- 0.0045 84	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	NV	-20	- 0.0026 09	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	NV	-10	- 0.0056 8	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	NV	0	- 0.0045 94	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	NV	10	- 0.0037 88	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	NV	20	- 0.0030 38	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	NV	30	- 0.0029 3	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	NV	40	- 0.0028 82	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-QPSK	L	Outer_Full	NV	50	- 0.0027 88	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-16QAM	L	Outer_Full	NV	-30	- 0.0045 64	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-16QAM	L	Outer_Full	NV	-20	- 0.0036 55	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-	L	Outer_Full	NV	-10	-	-	2496	2690	---	PASS

			16QAM		ull			0.0032 19	2.5~2. 5				S
n41	30	10	DFT- 16QAM	L	Outer_F ull	NV	0	- 0.0038 89	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 16QAM	L	Outer_F ull	NV	10	- 0.0030 39	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 16QAM	L	Outer_F ull	NV	20	- 0.0038 77	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 16QAM	L	Outer_F ull	NV	30	- 0.0041 5	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 16QAM	L	Outer_F ull	NV	40	- 0.0029 83	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 16QAM	L	Outer_F ull	NV	50	- 0.0048 15	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 64QAM	L	Outer_F ull	NV	-30	- 0.0043 44	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 64QAM	L	Outer_F ull	NV	-20	- 0.0029 58	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 64QAM	L	Outer_F ull	NV	-10	- 0.0033 02	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 64QAM	L	Outer_F ull	NV	0	- 0.0034 46	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 64QAM	L	Outer_F ull	NV	10	- 0.0028 92	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 64QAM	L	Outer_F ull	NV	20	- 0.0029 28	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 64QAM	L	Outer_F ull	NV	30	- 0.0042 85	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	DFT- 64QAM	L	Outer_F ull	NV	40	- 0.0032 97	- 2.5~2. 5	2496	2690	---	PAS S

n41	30	10	DFT-64QAM	L	Outer_Full	NV	50	- 0.004206	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256QAM	L	Outer_Full	NV	-30	- 0.003954	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256QAM	L	Outer_Full	NV	-20	- 0.004561	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256QAM	L	Outer_Full	NV	-10	- 0.003495	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256QAM	L	Outer_Full	NV	0	- 0.003862	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256QAM	L	Outer_Full	NV	10	- 0.002579	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256QAM	L	Outer_Full	NV	20	- 0.003878	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256QAM	L	Outer_Full	NV	30	- 0.004533	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256QAM	L	Outer_Full	NV	40	- 0.001927	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	DFT-256QAM	L	Outer_Full	NV	50	- 0.003235	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	NV	-30	- 0.003148	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	NV	-20	- 0.003027	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	NV	-10	- 0.003623	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	NV	0	- 0.001168	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	NV	10	- 0.0022	- 2.5~2.5	2496	2690	---	PASS

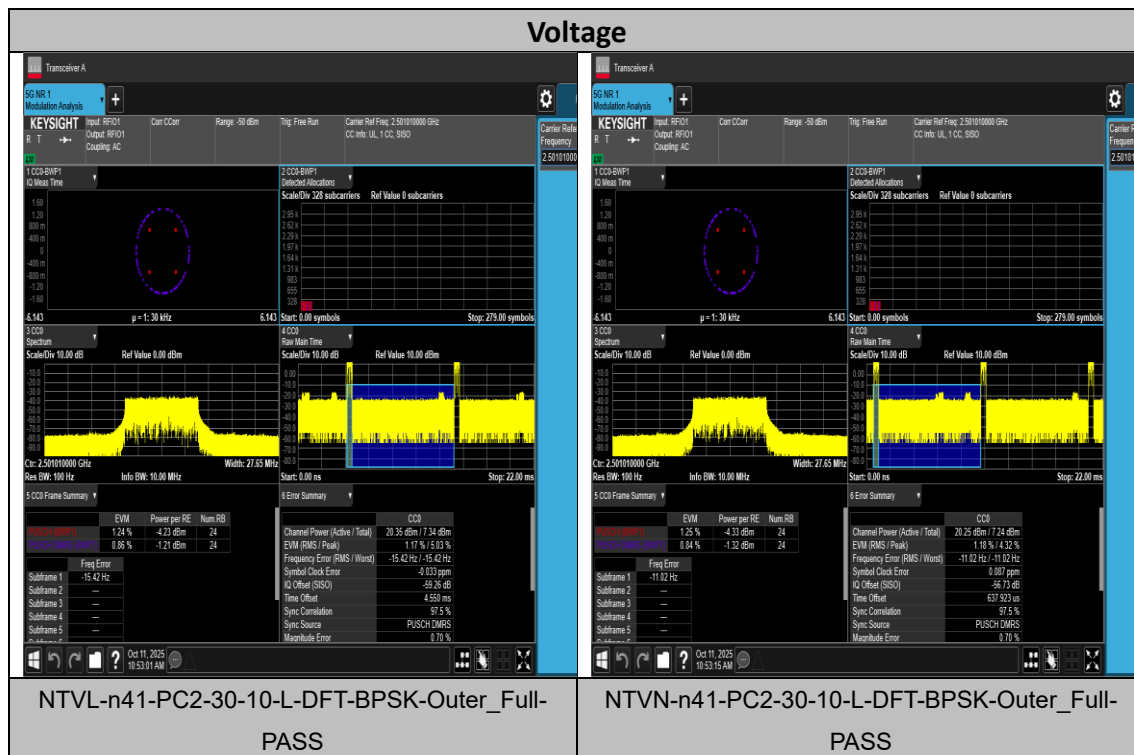
								25	5				
n41	30	10	CP-QPSK	L	Outer_Full	NV	20	- 0.00334	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	NV	30	- 0.003311	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	NV	40	- 0.003633	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-QPSK	L	Outer_Full	NV	50	- 0.004428	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QAM	L	Outer_Full	NV	-30	- 0.001989	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QAM	L	Outer_Full	NV	-20	- 0.004541	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QAM	L	Outer_Full	NV	-10	- 0.002761	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QAM	L	Outer_Full	NV	0	- 0.003046	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QAM	L	Outer_Full	NV	10	- 0.002951	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QAM	L	Outer_Full	NV	20	- 0.002835	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QAM	L	Outer_Full	NV	30	- 0.004489	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QAM	L	Outer_Full	NV	40	- 0.003197	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-16QAM	L	Outer_Full	NV	50	- 0.004388	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-64QAM	L	Outer_Full	NV	-30	- 0.002787	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-	L	Outer_Full	NV	-20	-	-	2496	2690	---	PASS

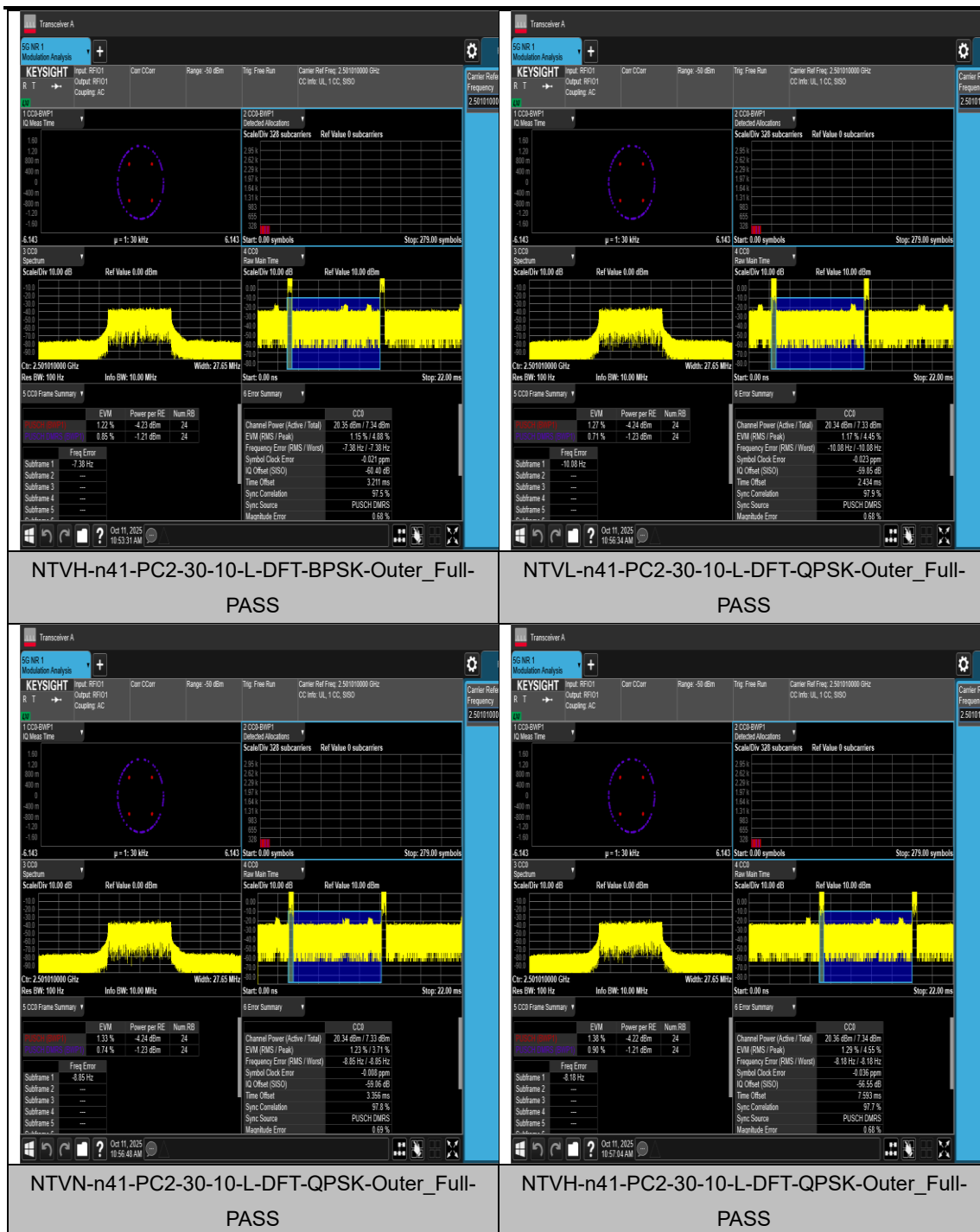
			64QAM		ull			0.0025 05	2.5~2. 5				S
n41	30	10	CP- 64QAM	L	Outer_F ull	NV	-10	- 0.0031 17	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 64QAM	L	Outer_F ull	NV	0	- 0.0024 54	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 64QAM	L	Outer_F ull	NV	10	- 0.0035 33	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 64QAM	L	Outer_F ull	NV	20	- 0.0041 34	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 64QAM	L	Outer_F ull	NV	30	- 0.0045 99	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 64QAM	L	Outer_F ull	NV	40	- 0.0031 34	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 64QAM	L	Outer_F ull	NV	50	- 0.0039 49	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 256QA M	L	Outer_F ull	NV	-30	- 0.0039 1	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 256QA M	L	Outer_F ull	NV	-20	- 0.0028 46	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 256QA M	L	Outer_F ull	NV	-10	- 0.0035 9	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 256QA M	L	Outer_F ull	NV	0	- 0.0031 36	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 256QA M	L	Outer_F ull	NV	10	- 0.0035 78	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 256QA M	L	Outer_F ull	NV	20	- 0.0028 42	- 2.5~2. 5	2496	2690	---	PAS S
n41	30	10	CP- 256QA M	L	Outer_F ull	NV	30	- 0.0035 1	- 2.5~2. 5	2496	2690	---	PAS S

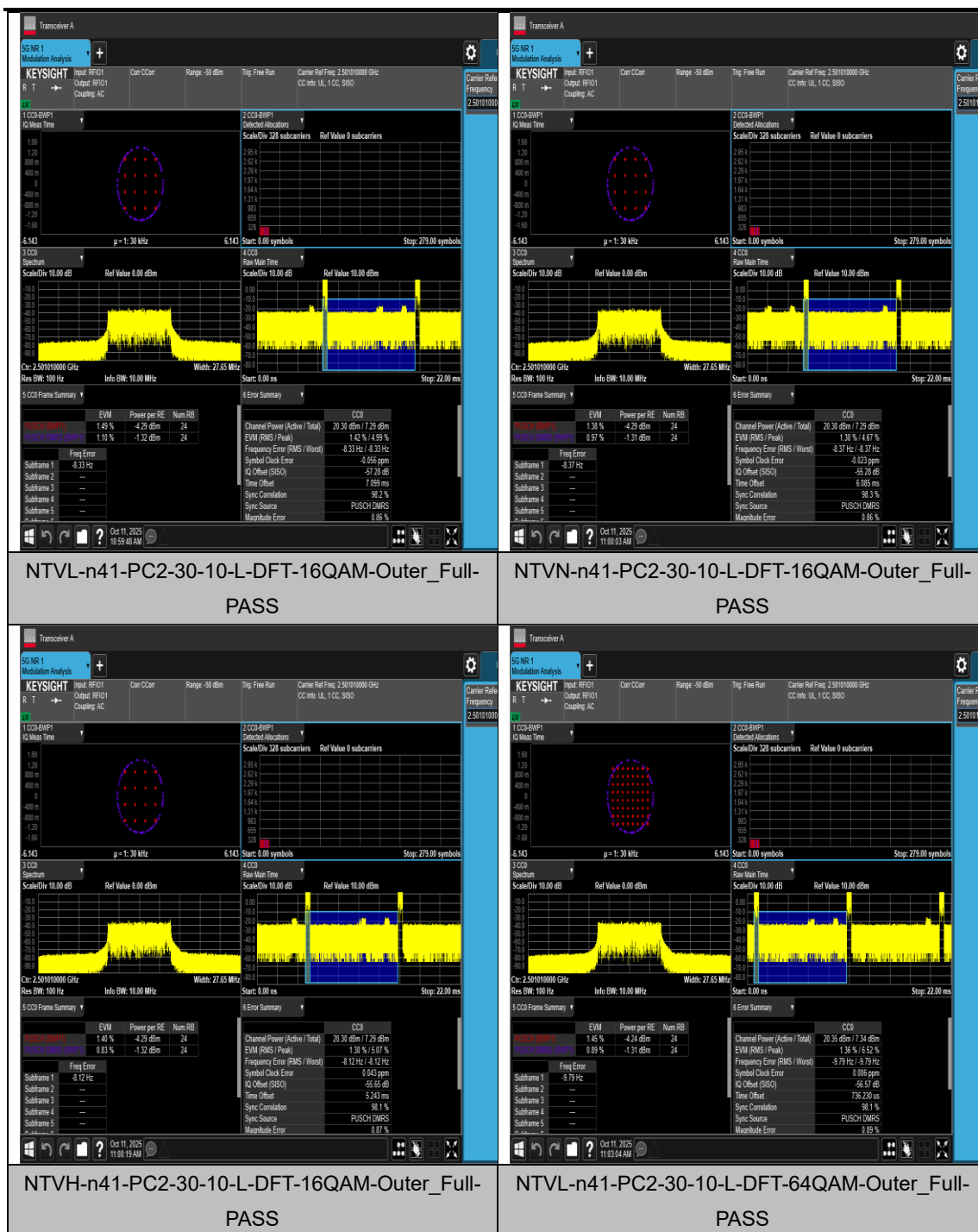
n41	30	10	CP-256QAM	L	Outer_Full	NV	40	- 0.002376	- 2.5~2.5	2496	2690	---	PASS
n41	30	10	CP-256QAM	L	Outer_Full	NV	50	- 0.001054	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	NV	-30	- 0.003264	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	NV	-20	- 0.00411	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	NV	-10	- 0.004212	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	NV	0	- 0.003951	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	NV	10	- 0.005692	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	NV	20	- 0.004592	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	NV	30	- 0.005831	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	NV	40	- 0.003715	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-64QAM	H	Outer_Full	NV	50	- 0.004053	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	NV	-30	- 0.004094	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	NV	-20	- 0.003333	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	NV	-10	- 0.004604	- 2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	NV	0	- 0.0049	- 2.5~2.5	2496	2690	---	PASS

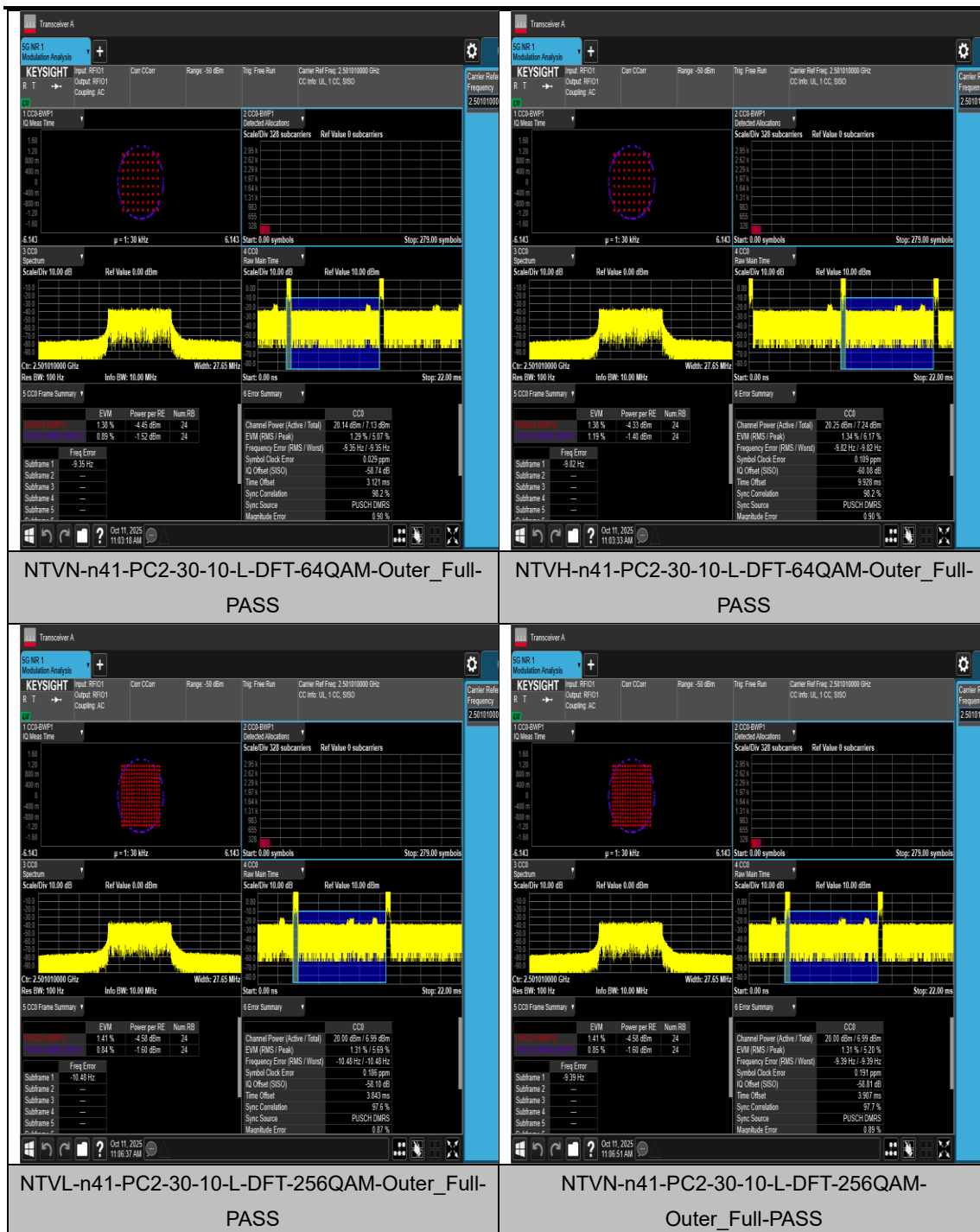
			M					93	5				
n41	30	100	CP-256QAM	H	Outer_Full	NV	10	-0.005415	-2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	NV	20	-0.005193	-2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	NV	30	-0.004474	-2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	NV	40	-0.004751	-2.5~2.5	2496	2690	---	PASS
n41	30	100	CP-256QAM	H	Outer_Full	NV	50	-0.005344	-2.5~2.5	2496	2690	---	PASS

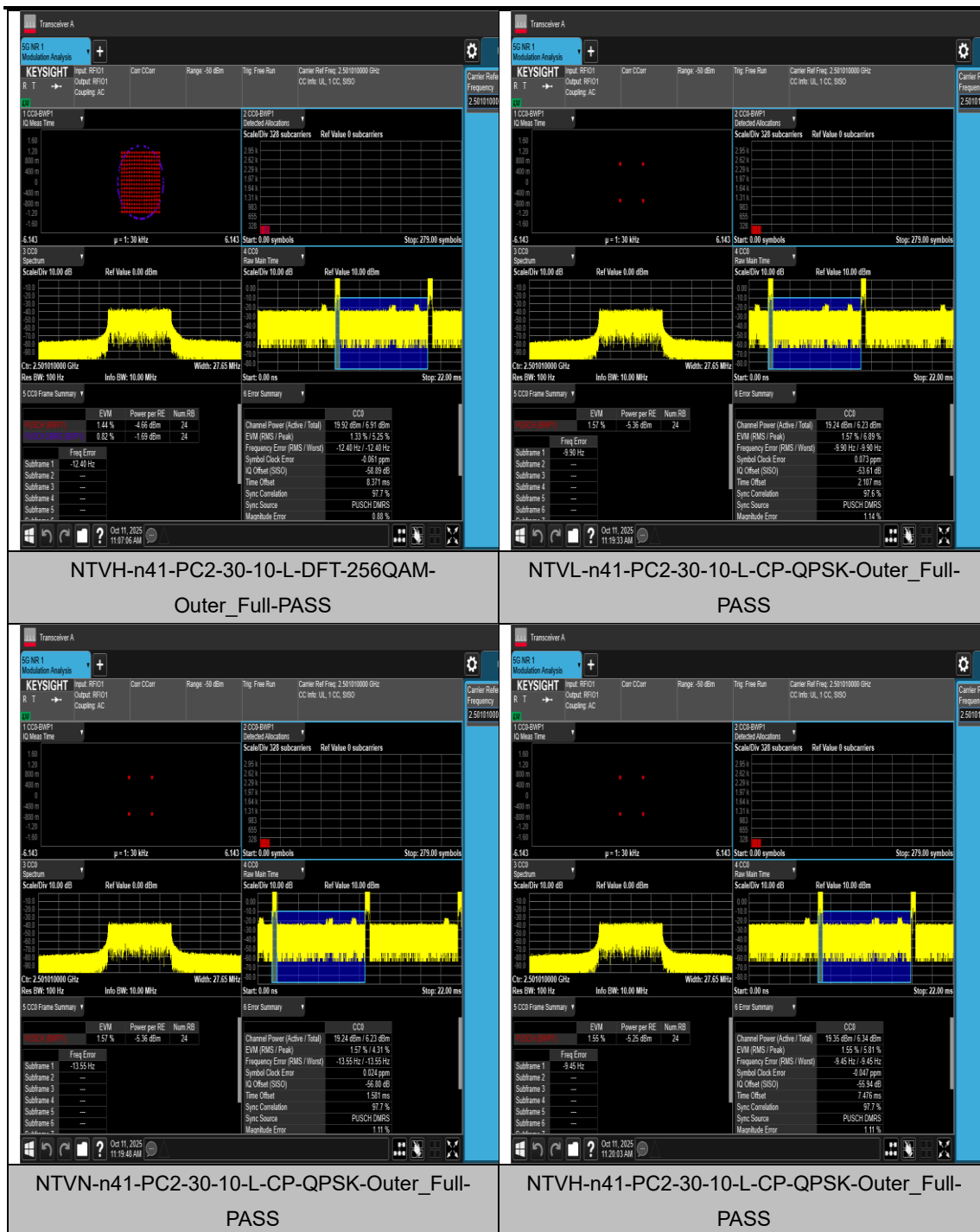
Test Graphs

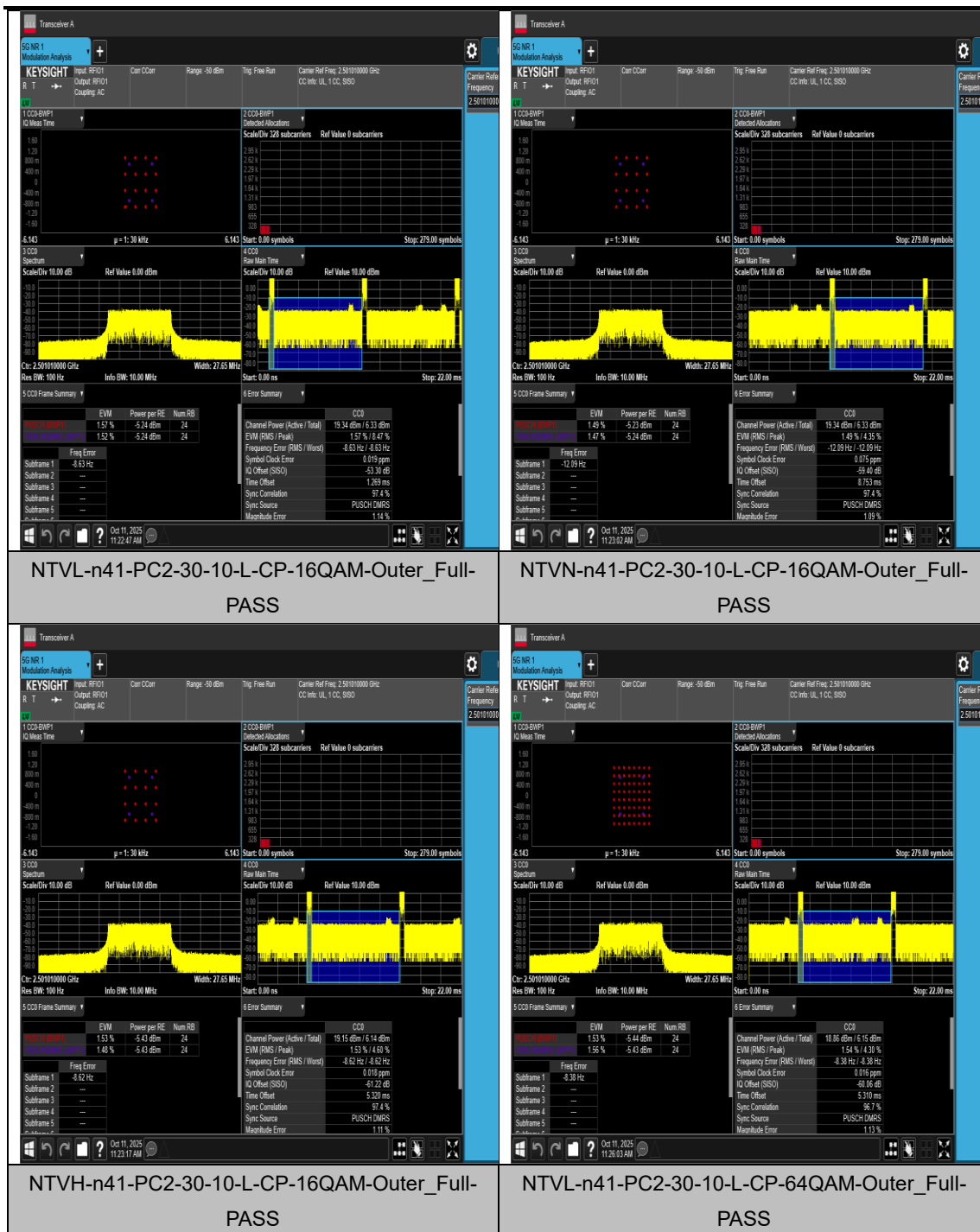


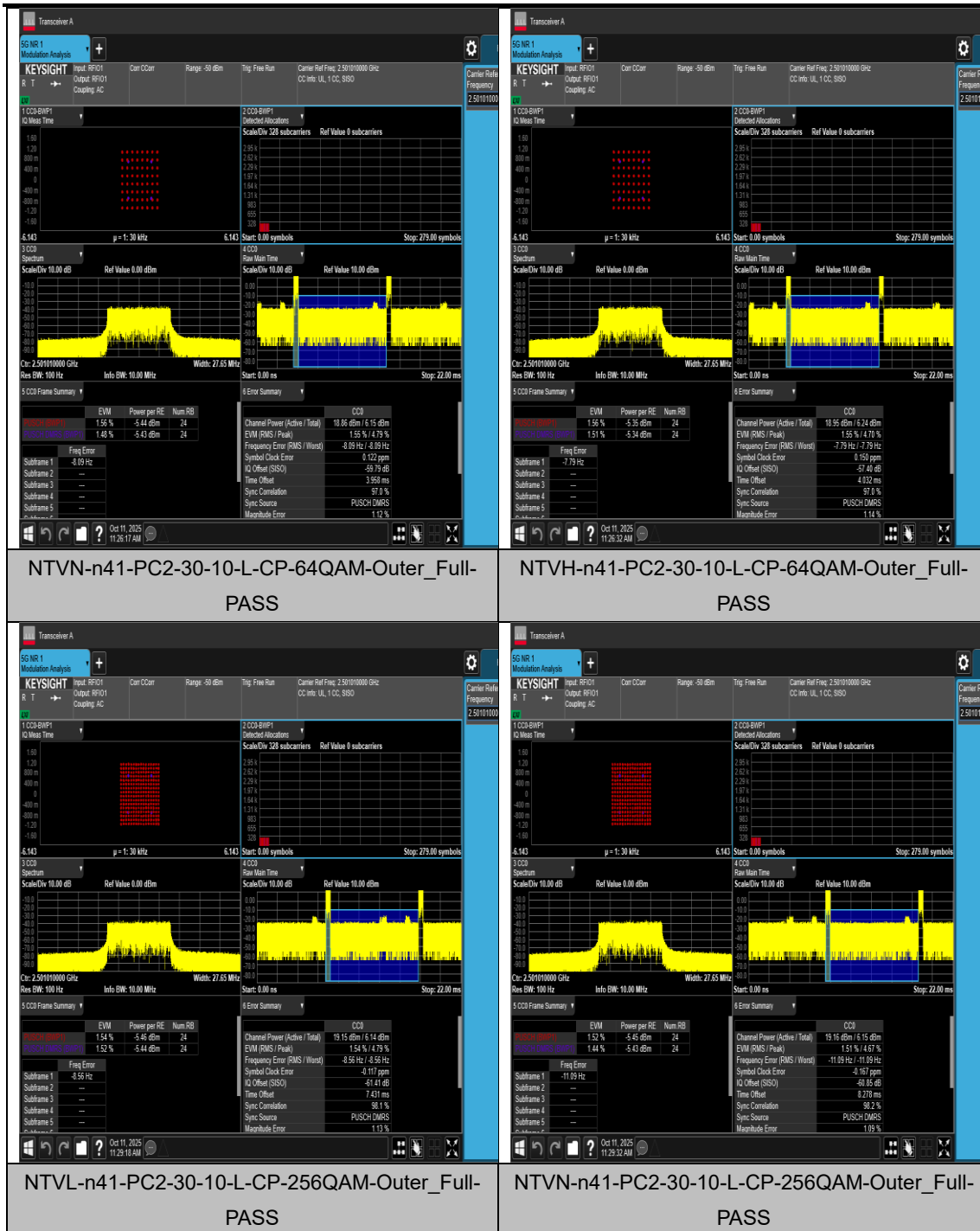


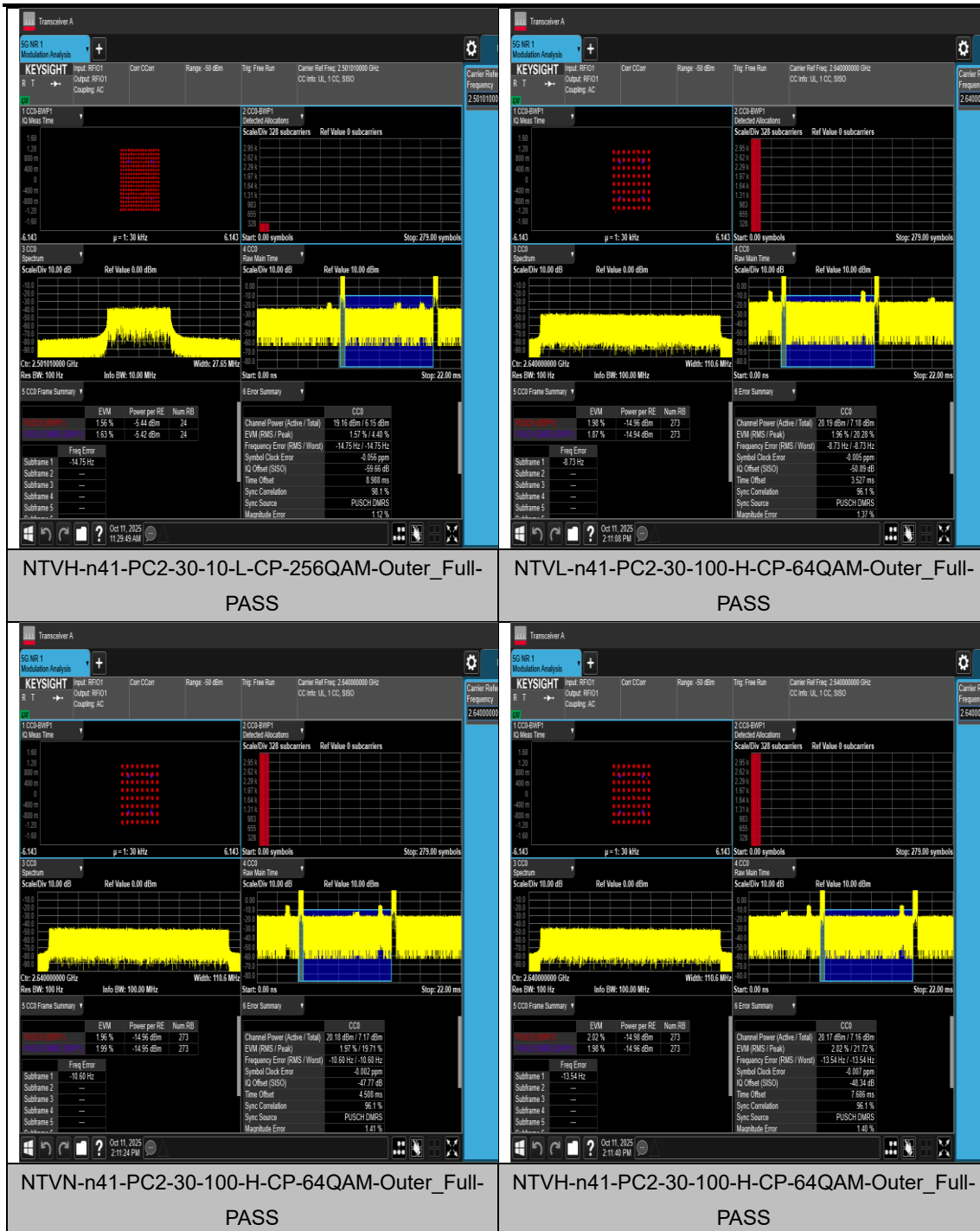


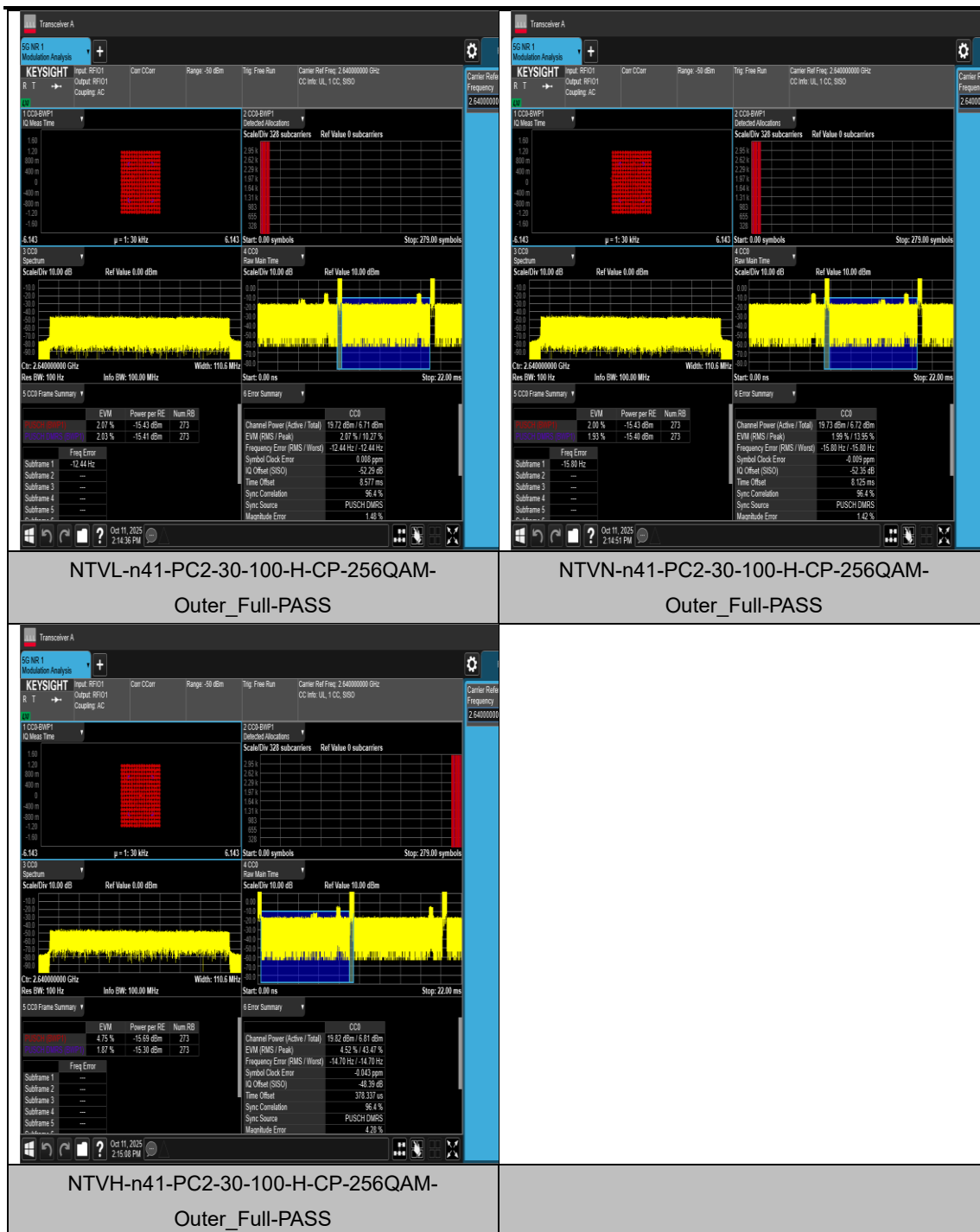












Temperature