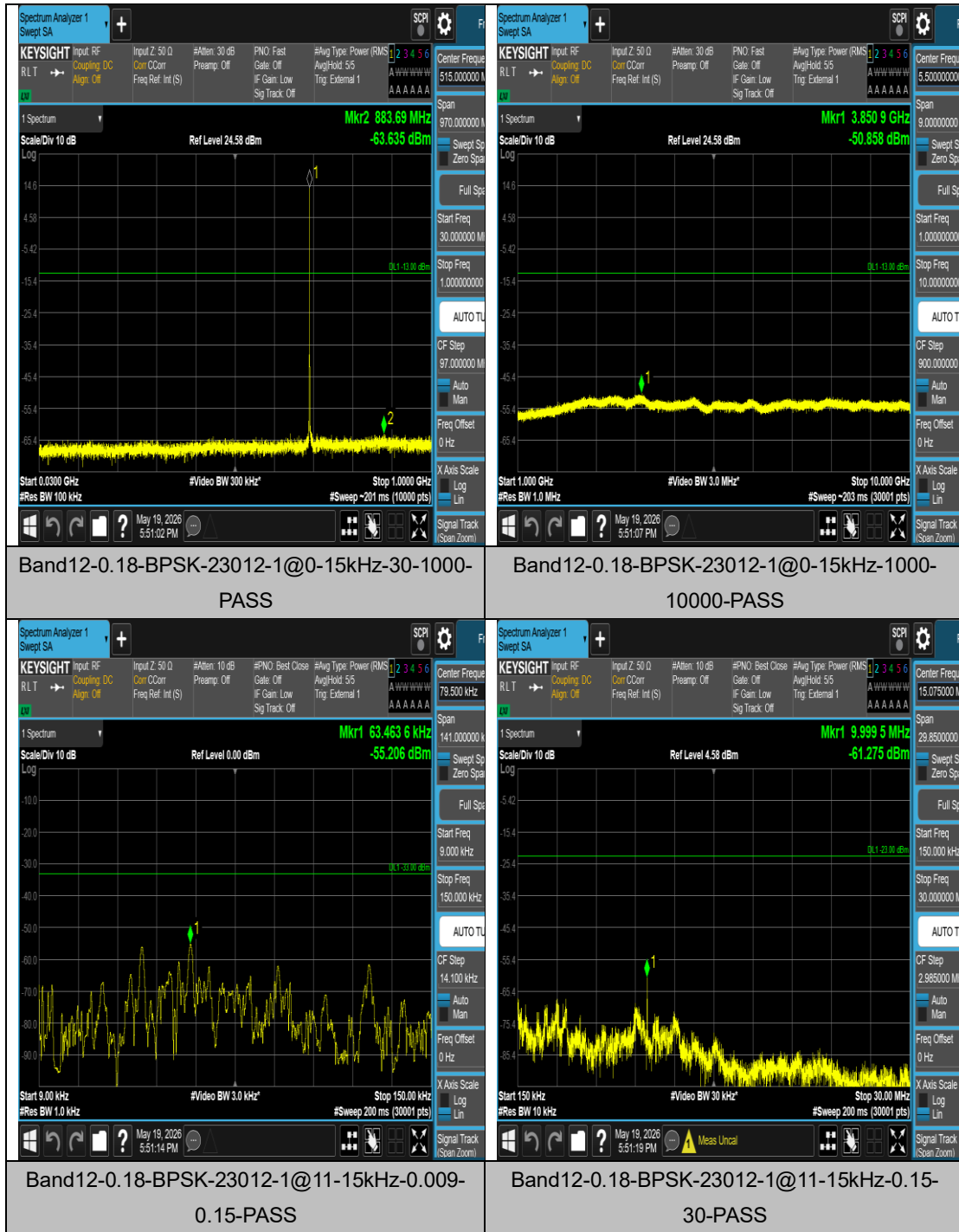
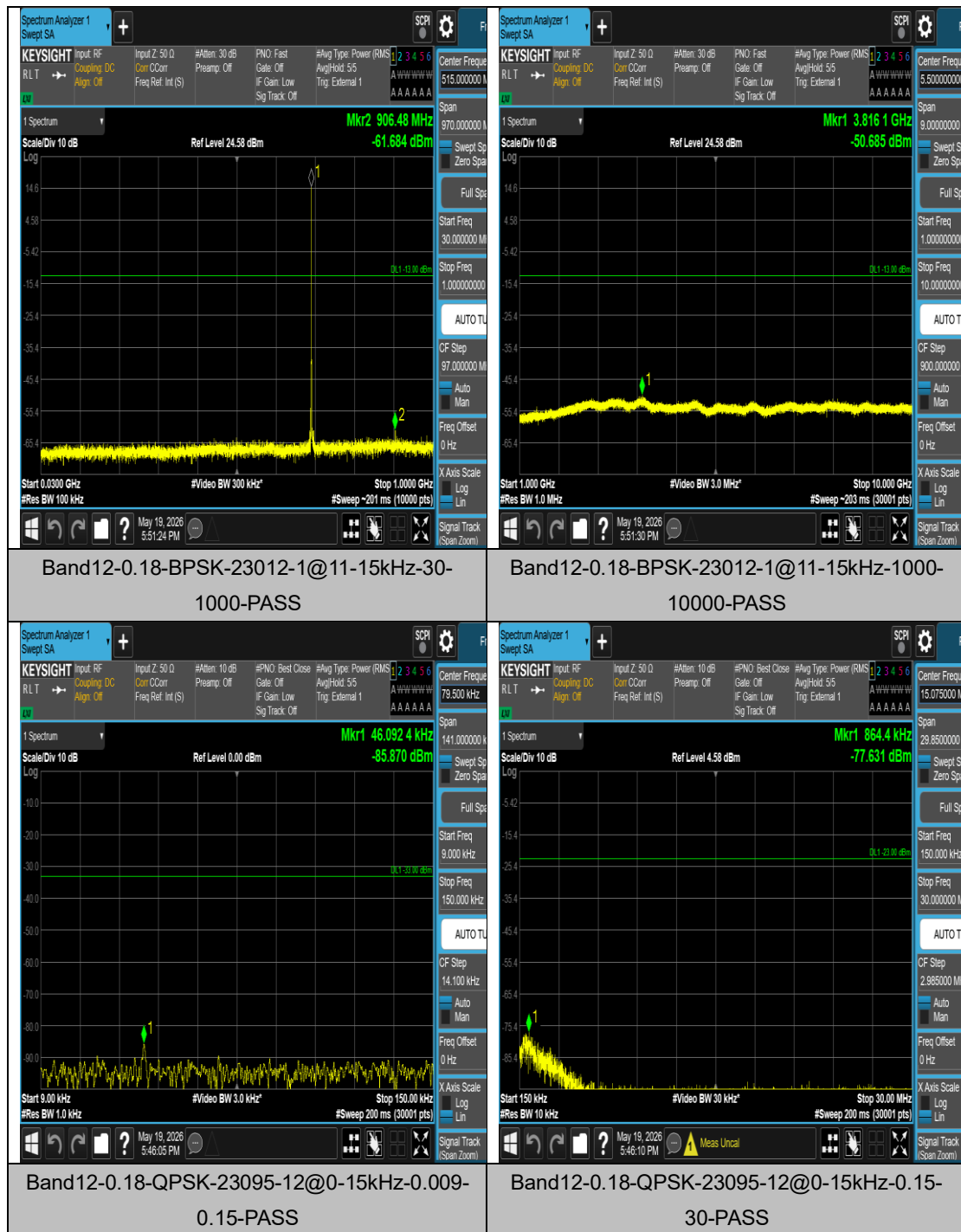
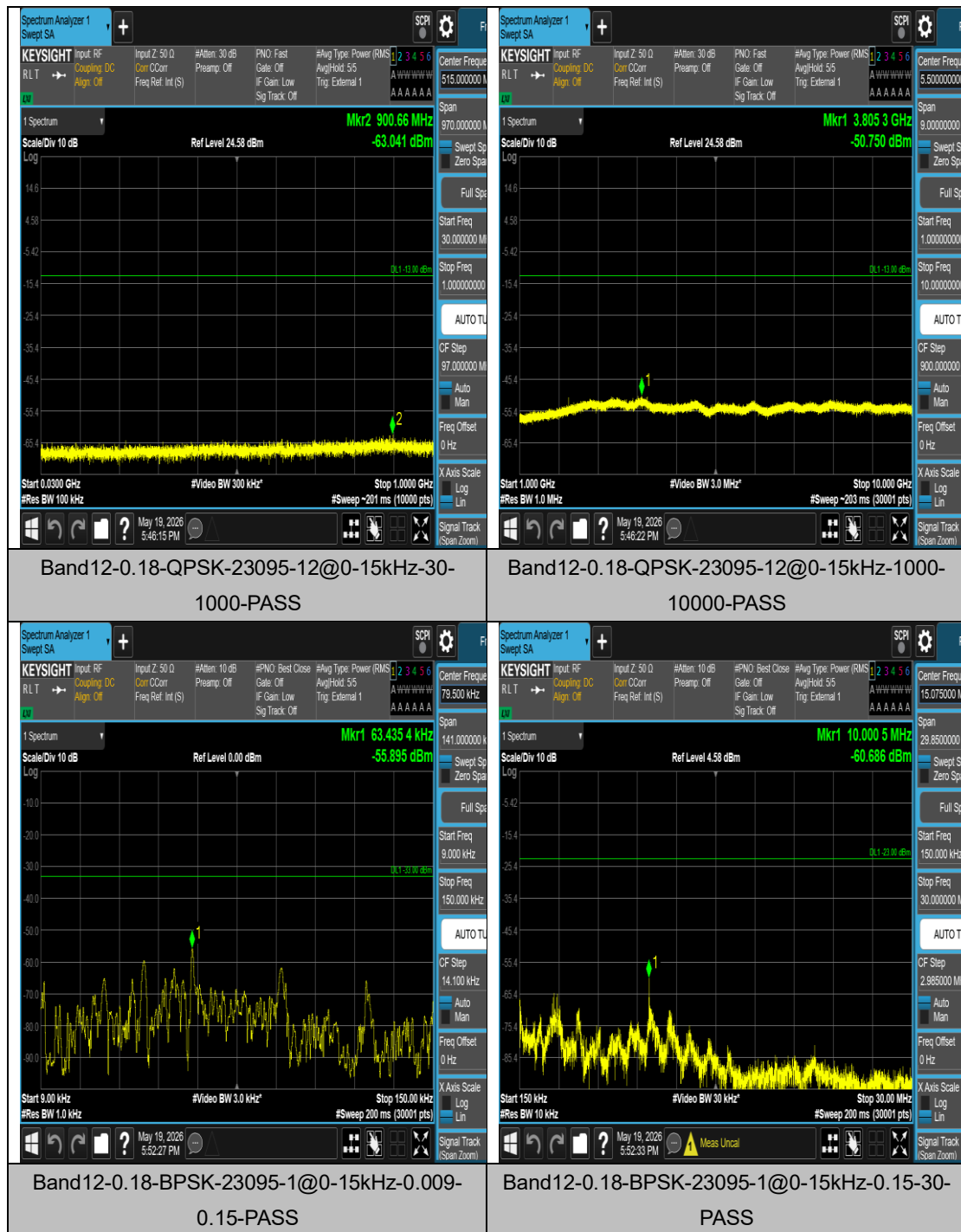
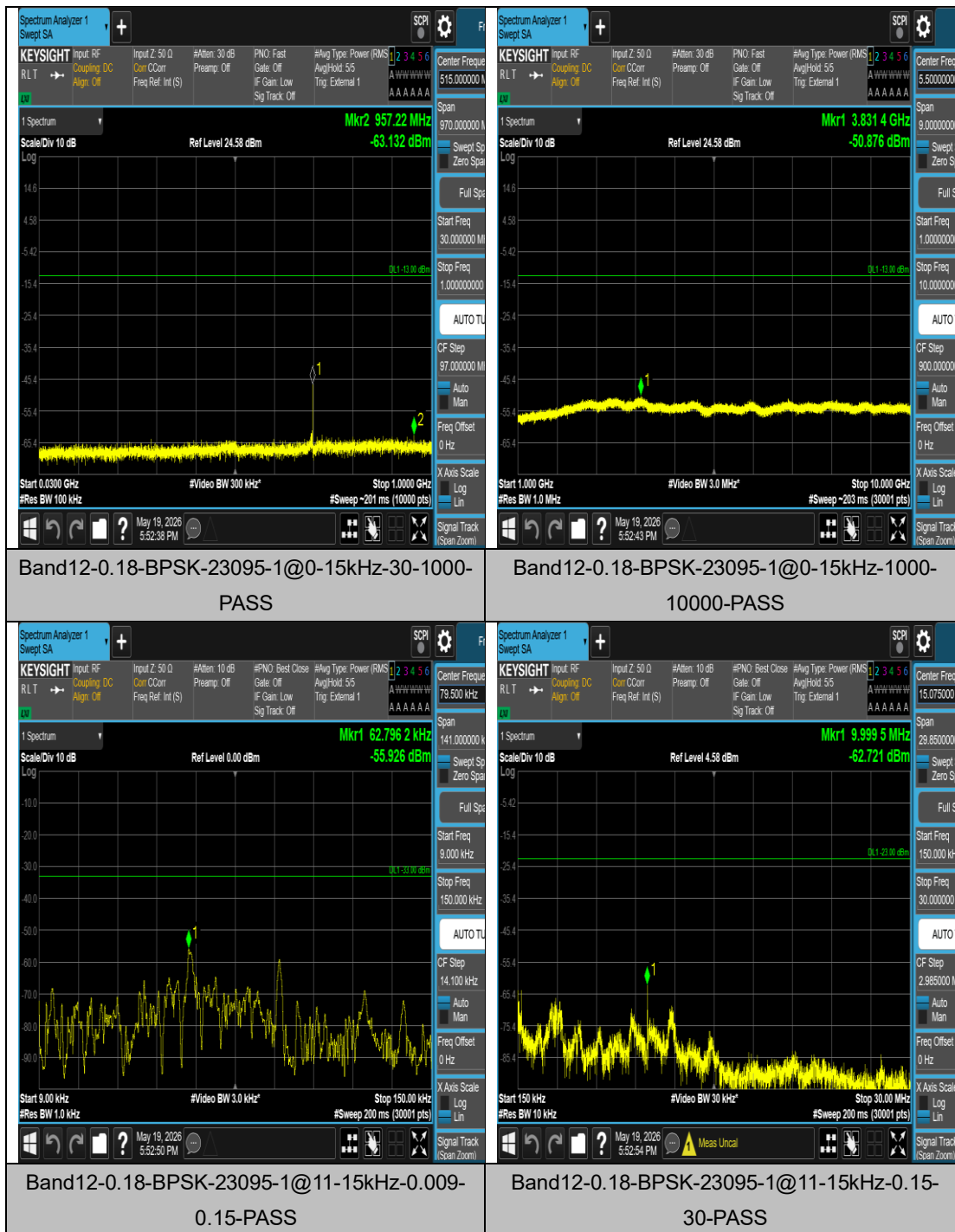
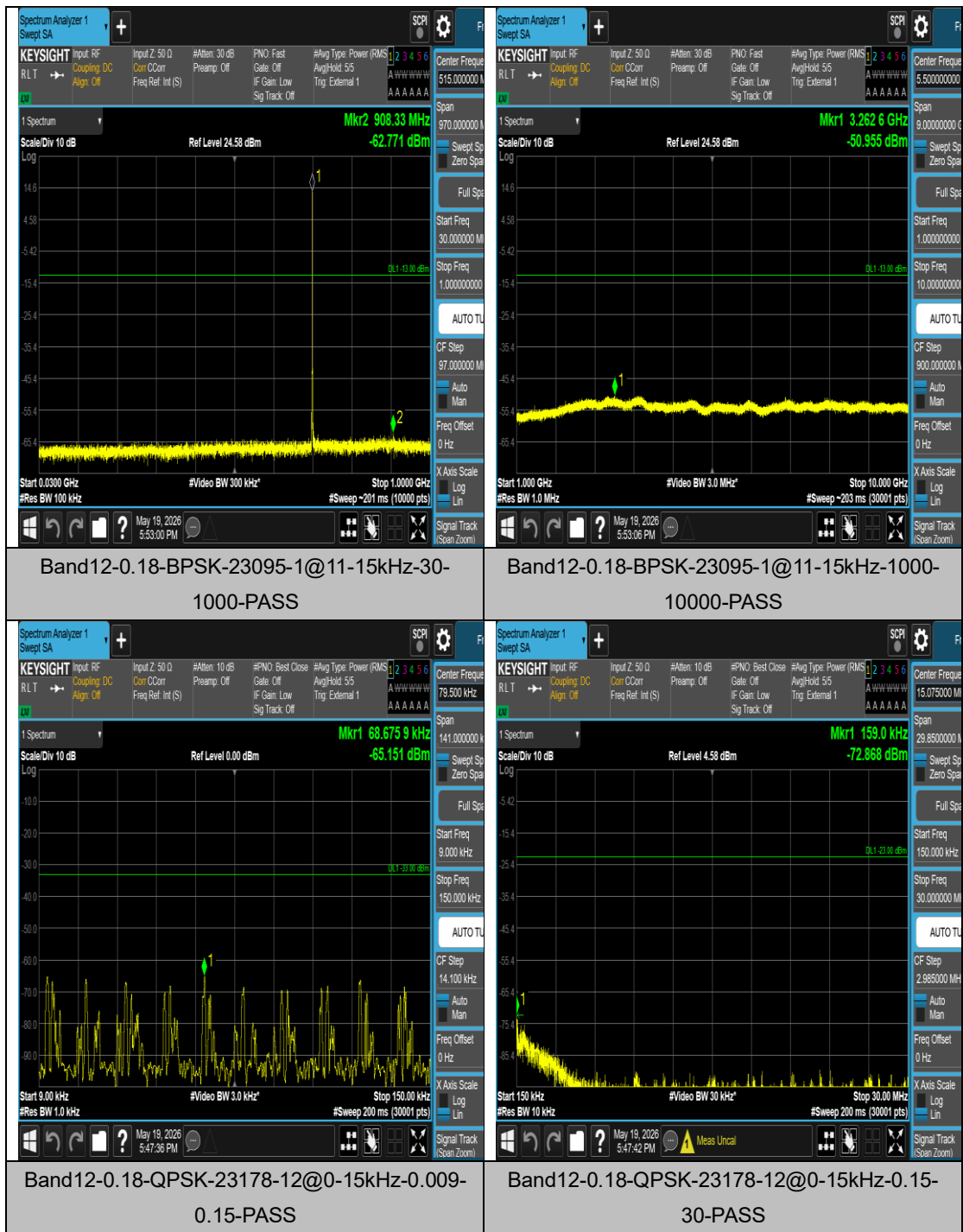


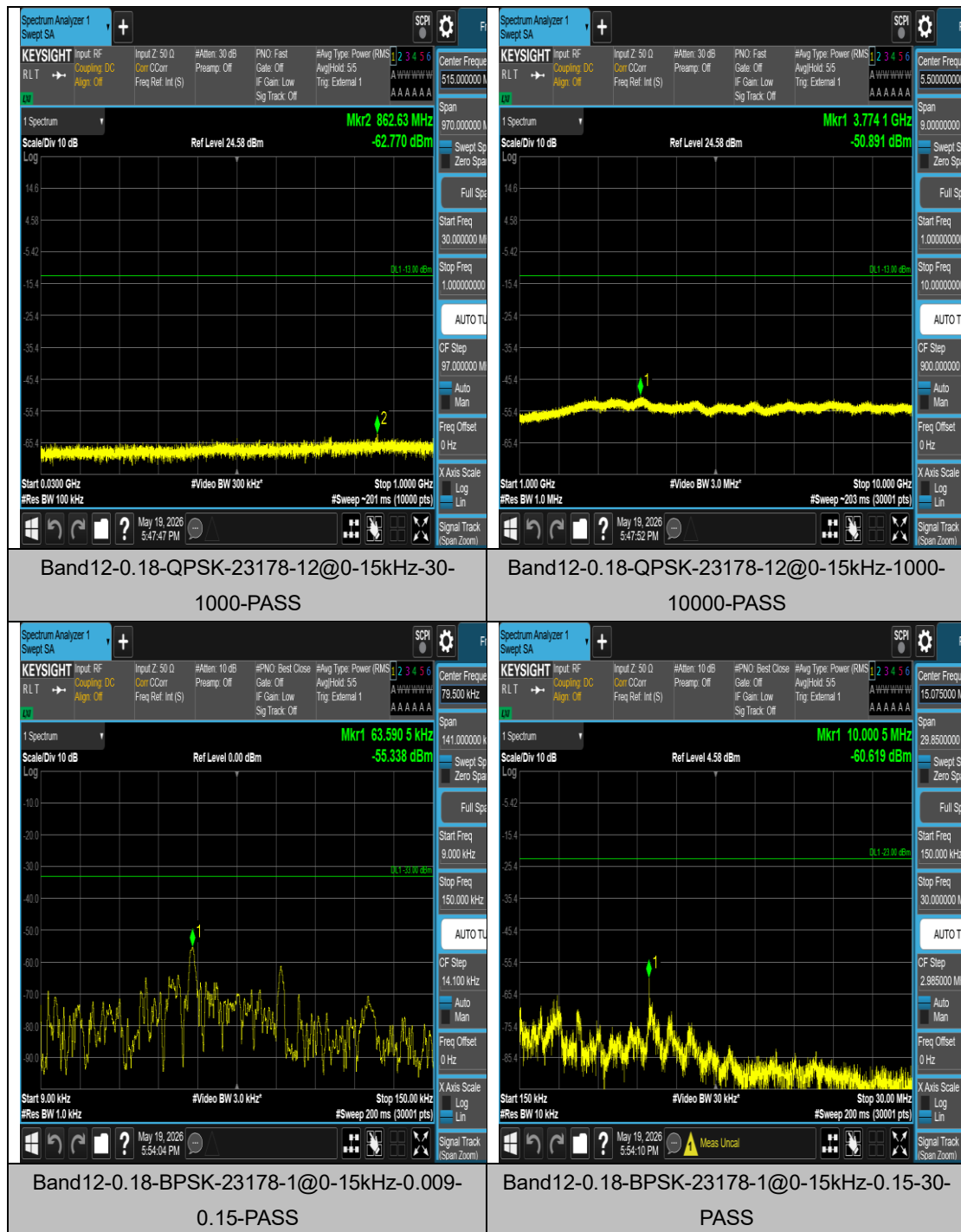


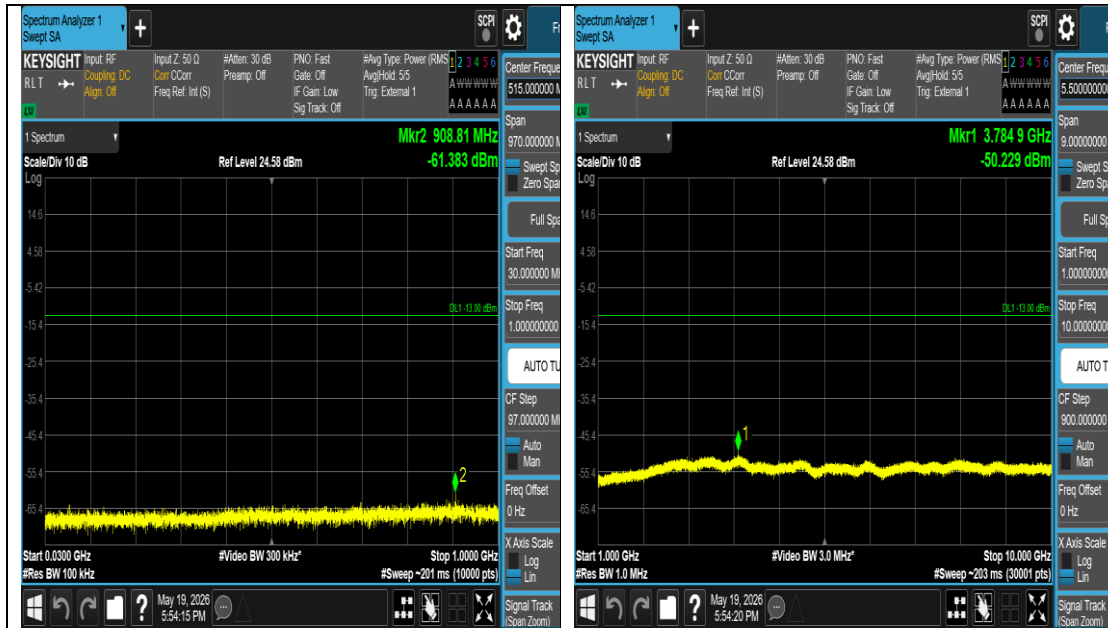






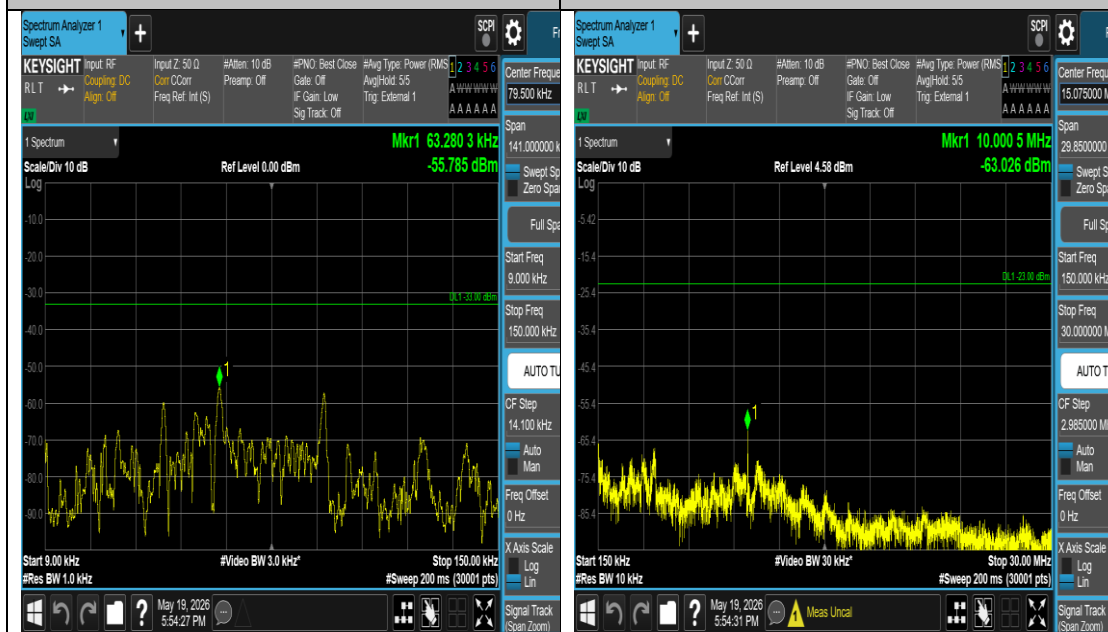






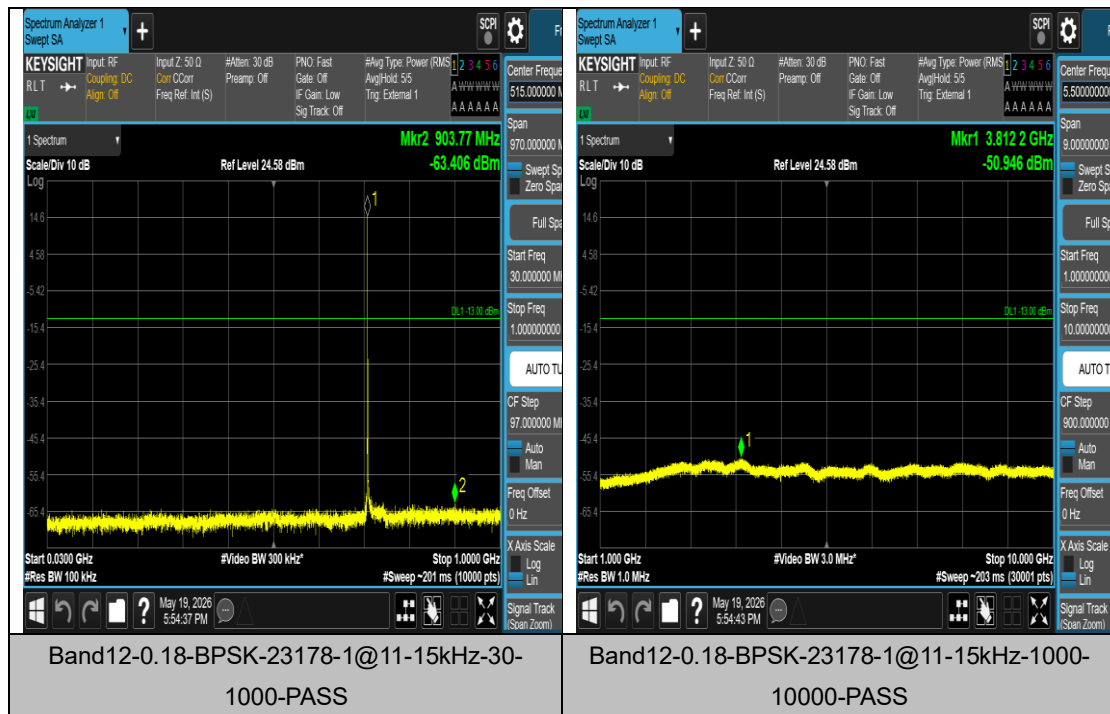
Band12-0.18-BPSK-23178-1@0-15kHz-30-1000-PASS

Band12-0.18-BPSK-23178-1@0-15kHz-1000-10000-PASS



Band12-0.18-BPSK-23178-1@11-15kHz-0.009-0.15-PASS

Band12-0.18-BPSK-23178-1@11-15kHz-0.15-30-PASS



Appendix F: Frequency Stability for NB1

Test Result

Voltage												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	Stand-Alone	3.75 kHz	0.18	QPSK	23095	1@0	VL	NT	-2.60	-0.003675	±2.5	PASS
Band12	Stand-Alone	3.75 kHz	0.18	QPSK	23095	1@0	VN	NT	-3.60	-0.005088	±2.5	PASS
Band12	Stand-Alone	3.75 kHz	0.18	QPSK	23095	1@0	VH	NT	-3.70	-0.005230	±2.5	PASS
Band12	Stand-Alone	3.75 kHz	0.18	QPSK	23095	1@47	VL	NT	-3.00	-0.004240	±2.5	PASS
Band12	Stand-Alone	3.75 kHz	0.18	QPSK	23095	1@47	VN	NT	-3.00	-0.004240	±2.5	PASS
Band12	Stand-Alone	3.75 kHz	0.18	QPSK	23095	1@47	VH	NT	-3.20	-0.004523	±2.5	PASS
Band12	Stand-Alone	15k Hz	0.18	QPSK	23095	1@0	VL	NT	-3.40	-0.004806	±2.5	PASS
Band12	Stand-Alone	15k Hz	0.18	QPSK	23095	1@0	VN	NT	-3.40	-0.004806	±2.5	PASS
Band12	Stand-Alone	15k Hz	0.18	QPSK	23095	1@0	VH	NT	-2.30	-0.003251	±2.5	PASS

Band12	Stand-Alone	15k Hz	0.18	QPSK	23095	1@11	VL	NT	-2.90	-0.004099	±2.5	PASS
Band12	Stand-Alone	15k Hz	0.18	QPSK	23095	1@11	VN	NT	-2.30	-0.003251	±2.5	PASS
Band12	Stand-Alone	15k Hz	0.18	QPSK	23095	1@11	VH	NT	-2.40	-0.003392	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@0	NV	-30	-4.60	-0.006502	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@0	NV	-20	-5.00	-0.007067	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@0	NV	-10	-4.40	-0.006219	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@0	NV	0	-5.10	-0.007208	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@0	NV	10	-4.50	-0.006360	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@0	NV	20	-4.40	-0.006219	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@0	NV	30	-4.40	-0.006	±2.5	PASS

	Alone									219		
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@0	NV	40	-4.40	-0.006219	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@0	NV	50	-4.40	-0.006219	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@47	NV	-30	-3.10	-0.004382	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@47	NV	-20	-3.90	-0.005512	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@47	NV	-10	-3.20	-0.004523	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@47	NV	0	-3.30	-0.004664	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@47	NV	10	-3.60	-0.005088	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@47	NV	20	-3.90	-0.005512	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@47	NV	30	-3.70	-0.005230	±2.5	PASS
Band12	Stand-Alone	3.75k Hz	0.18	QPSK	23095	1@47	NV	40	-3.60	-0.005088	±2.5	PASS
Band	Stand	3.75k	0.18	QPS	230	1@	NV	50	-3.80	-	±2.	PAS

d12	d- Alone	Hz		K	95	47				0.005 371	5	S
Ban d12	Stan d- Alone	15kHz	0.18	QPS K	230 95	1@ 0	NV	-30	-2.10	- 0.002 968	±2. 5	PAS S
Ban d12	Stan d- Alone	15kHz	0.18	QPS K	230 95	1@ 0	NV	-20	-3.90	- 0.005 512	±2. 5	PAS S
Ban d12	Stan d- Alone	15kHz	0.18	QPS K	230 95	1@ 0	NV	-10	-2.80	- 0.003 958	±2. 5	PAS S
Ban d12	Stan d- Alone	15kHz	0.18	QPS K	230 95	1@ 0	NV	0	-2.30	- 0.003 251	±2. 5	PAS S
Ban d12	Stan d- Alone	15kHz	0.18	QPS K	230 95	1@ 0	NV	10	-2.40	- 0.003 392	±2. 5	PAS S
Ban d12	Stan d- Alone	15kHz	0.18	QPS K	230 95	1@ 0	NV	20	-2.90	- 0.004 099	±2. 5	PAS S
Ban d12	Stan d- Alone	15kHz	0.18	QPS K	230 95	1@ 0	NV	30	-2.10	- 0.002 968	±2. 5	PAS S
Ban d12	Stan d- Alone	15kHz	0.18	QPS K	230 95	1@ 0	NV	40	-1.40	- 0.001 979	±2. 5	PAS S
Ban d12	Stan d- Alone	15kHz	0.18	QPS K	230 95	1@ 0	NV	50	-1.30	- 0.001 837	±2. 5	PAS S
Ban d12	Stan d- Alone	15kHz	0.18	QPS K	230 95	1@ 11	NV	-30	-1.90	- 0.002 686	±2. 5	PAS S

Ban d12	Stan d- Alon e	15kH z	0.18	QPS K	230 95	1@ 11	NV	-20	-1.10	- 0.001 555	±2. 5	PAS S
Ban d12	Stan d- Alon e	15kH z	0.18	QPS K	230 95	1@ 11	NV	-10	-2.90	- 0.004 099	±2. 5	PAS S
Ban d12	Stan d- Alon e	15kH z	0.18	QPS K	230 95	1@ 11	NV	0	-2.00	- 0.002 827	±2. 5	PAS S
Ban d12	Stan d- Alon e	15kH z	0.18	QPS K	230 95	1@ 11	NV	10	-1.40	- 0.001 979	±2. 5	PAS S
Ban d12	Stan d- Alon e	15kH z	0.18	QPS K	230 95	1@ 11	NV	20	-3.10	- 0.004 382	±2. 5	PAS S
Ban d12	Stan d- Alon e	15kH z	0.18	QPS K	230 95	1@ 11	NV	30	-1.20	- 0.001 696	±2. 5	PAS S
Ban d12	Stan d- Alon e	15kH z	0.18	QPS K	230 95	1@ 11	NV	40	-3.60	- 0.005 088	±2. 5	PAS S
Ban d12	Stan d- Alon e	15kH z	0.18	QPS K	230 95	1@ 11	NV	50	-2.80	- 0.003 958	±2. 5	PAS S