

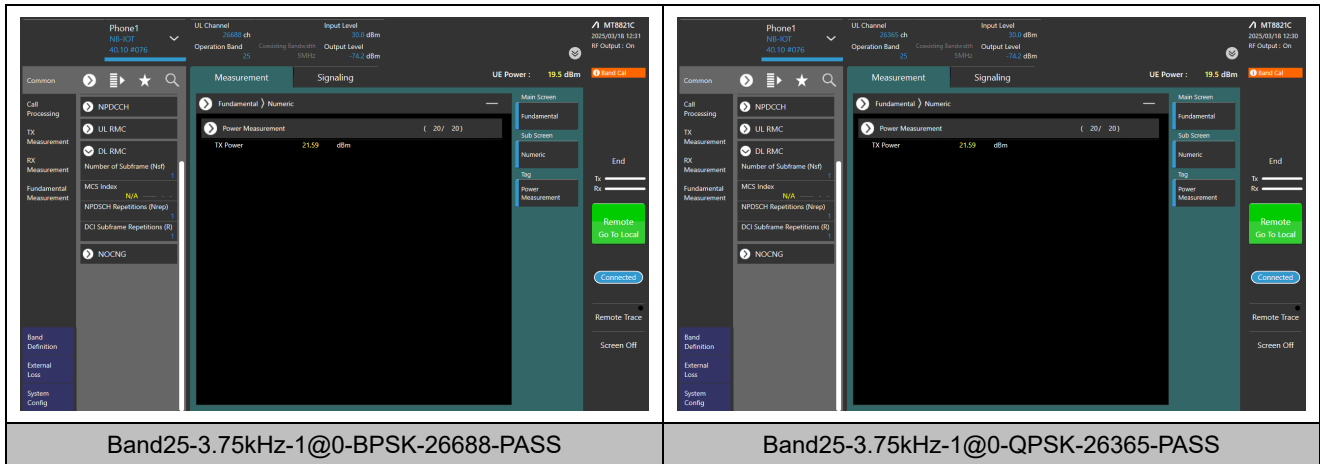
Appendix-C LTE NB-IoT Band 25

Effective (Isotropic) Radiated Power Output Data for NB1

Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	POWER (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band25	Stand-Alone	3.75kHz	0.18	BPSK	26042	1@0	21.21	22.8	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26042	1@0	21.15	22.74	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	BPSK	26042	1@47	21.1	22.69	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26042	1@47	21.04	22.63	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	BPSK	26365	1@0	21.53	23.12	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	21.59	23.18	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	BPSK	26365	1@47	21.49	23.08	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@47	21.53	23.12	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	BPSK	26688	1@0	21.59	23.18	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26688	1@0	21.56	23.15	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	BPSK	26688	1@47	21.48	23.07	33	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26688	1@47	21.5	23.09	33	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26042	1@0	20.72	22.31	33	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26042	1@0	20.81	22.4	33	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26042	1@11	20.73	22.32	33	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26042	1@11	20.75	22.34	33	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26365	1@0	21.36	22.95	33	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	1@0	21.43	23.02	33	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26365	1@11	21.33	22.92	33	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	1@11	21.34	22.93	33	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26688	1@0	21.39	22.98	33	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26688	1@0	21.43	23.02	33	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26688	1@11	21.34	22.93	33	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26688	1@11	21.34	22.93	33	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26042	3@3	20.71	22.3	33	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	3@3	21.36	22.95	33	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26688	3@3	21.46	23.05	33	PASS

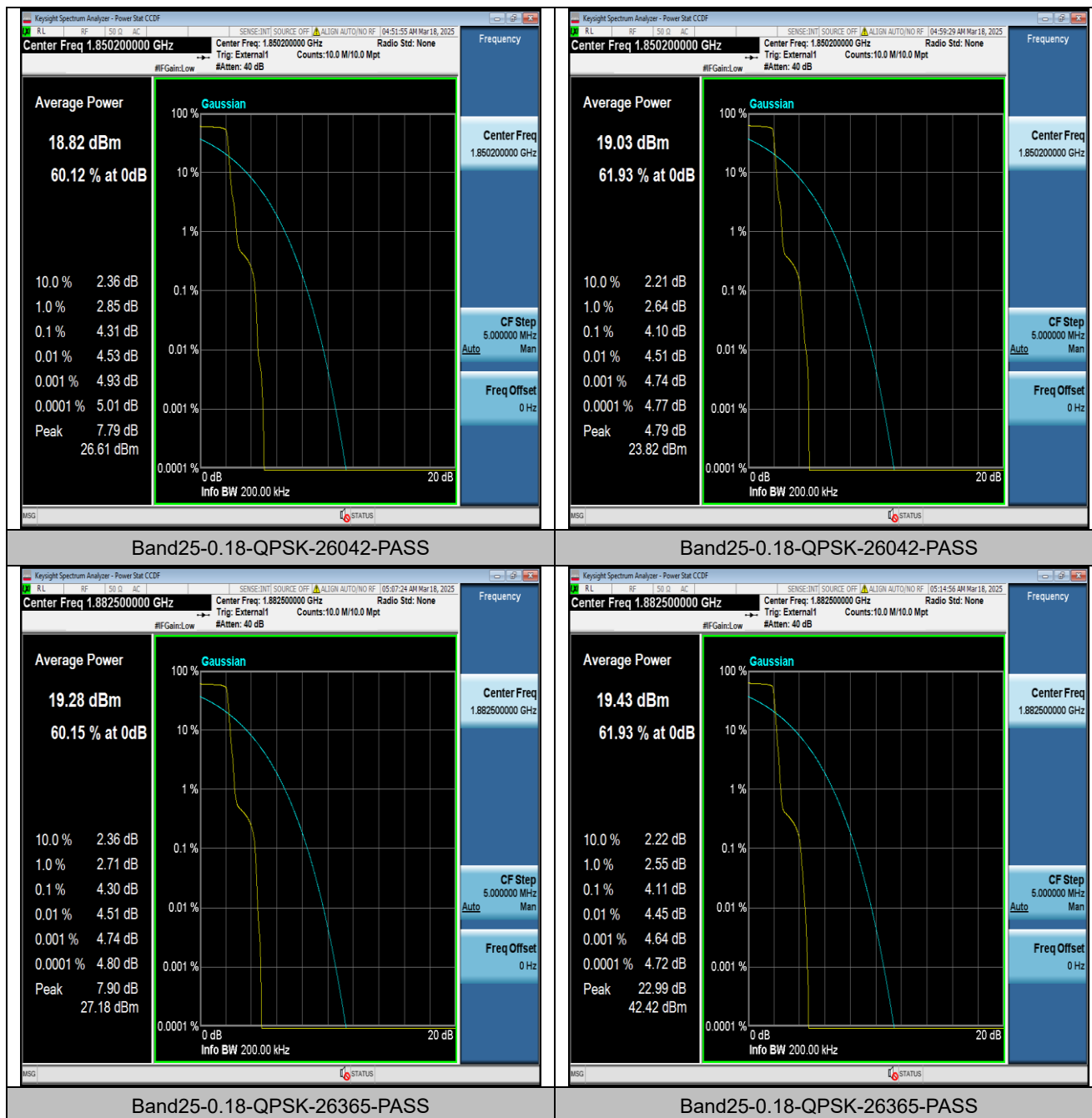
Test Graphs

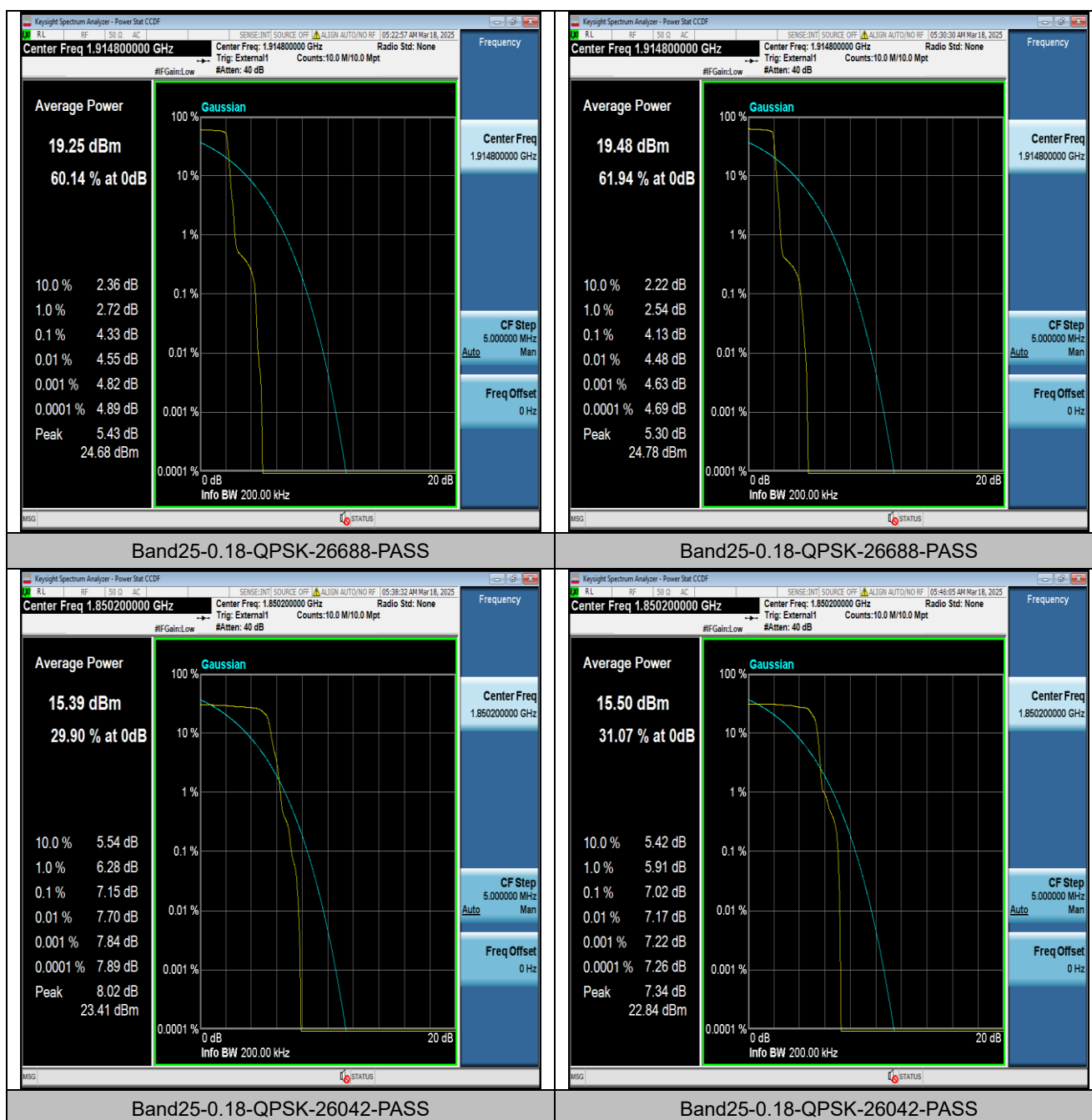


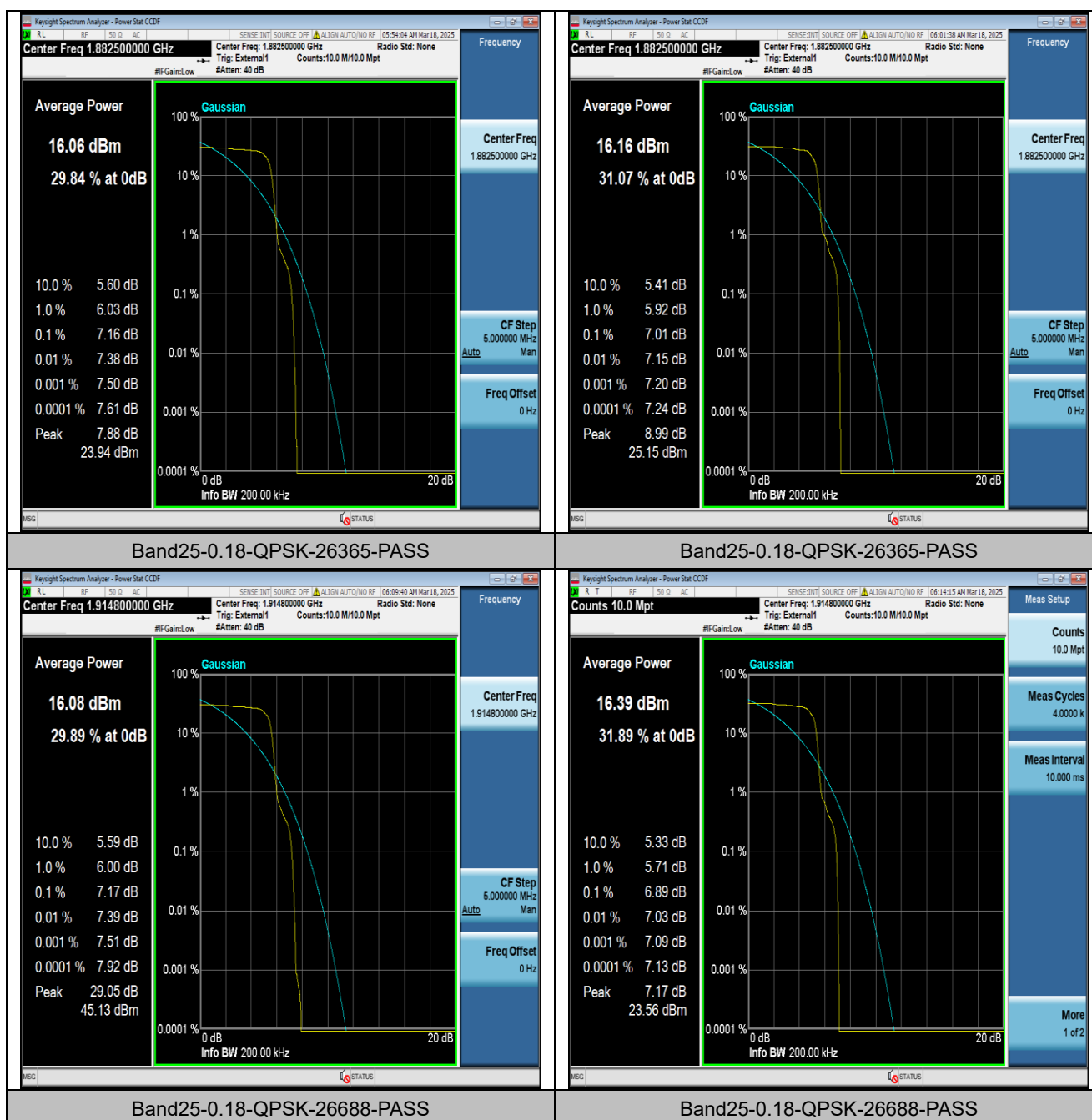
Peak-to-Average Ratio(CCDF) for NB1**Test Result**

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26042	1@0	4.31	<=13	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26042	1@47	4.1	<=13	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	4.3	<=13	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@47	4.11	<=13	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26688	1@0	4.33	<=13	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26688	1@47	4.13	<=13	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26042	1@0	7.15	<=13	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26042	1@11	7.02	<=13	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	1@0	7.16	<=13	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	1@11	7.01	<=13	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26688	1@0	7.17	<=13	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26688	1@11	6.89	<=13	PASS

Test Graphs





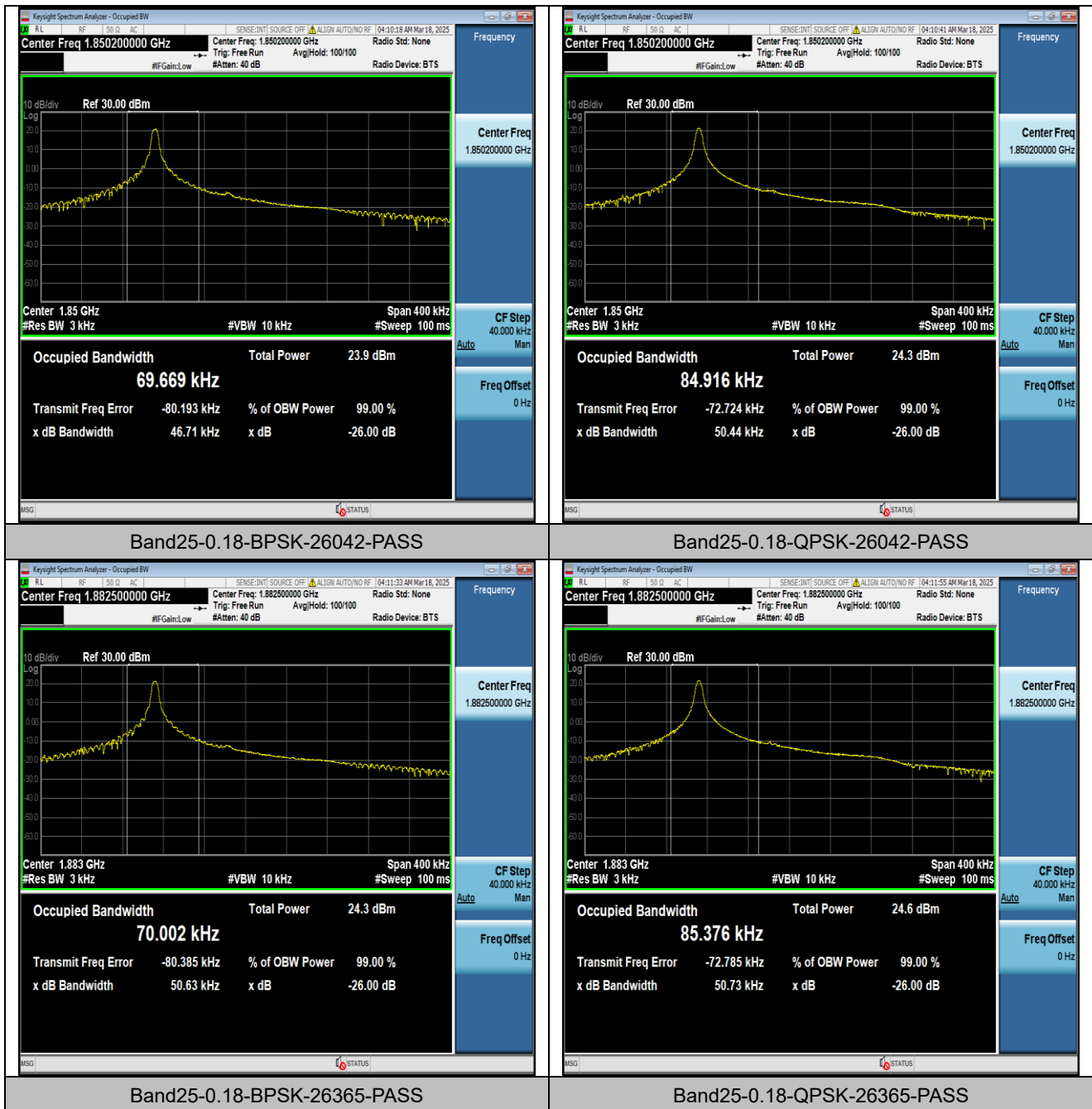


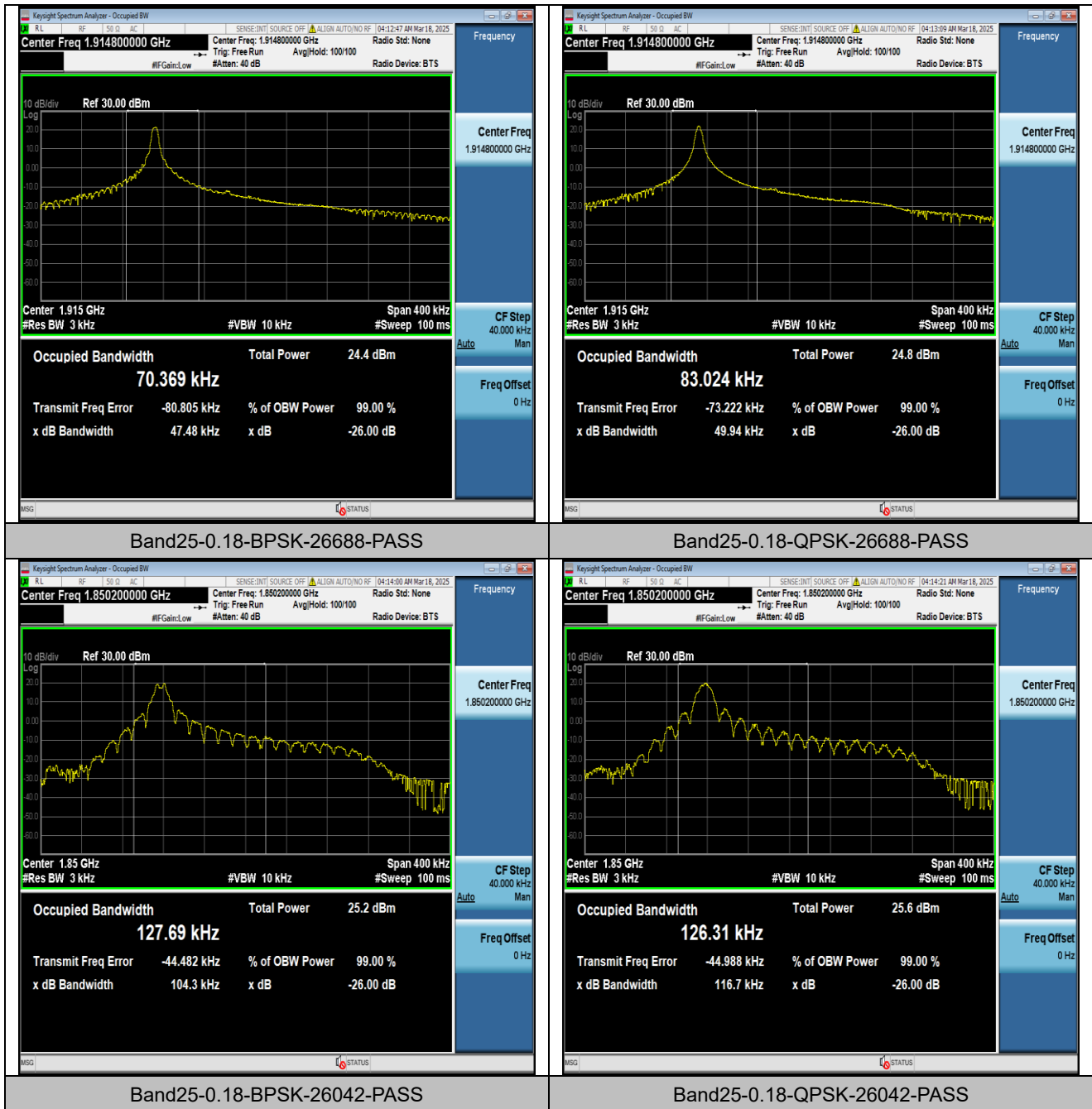
Emission Bandwidth for NB1

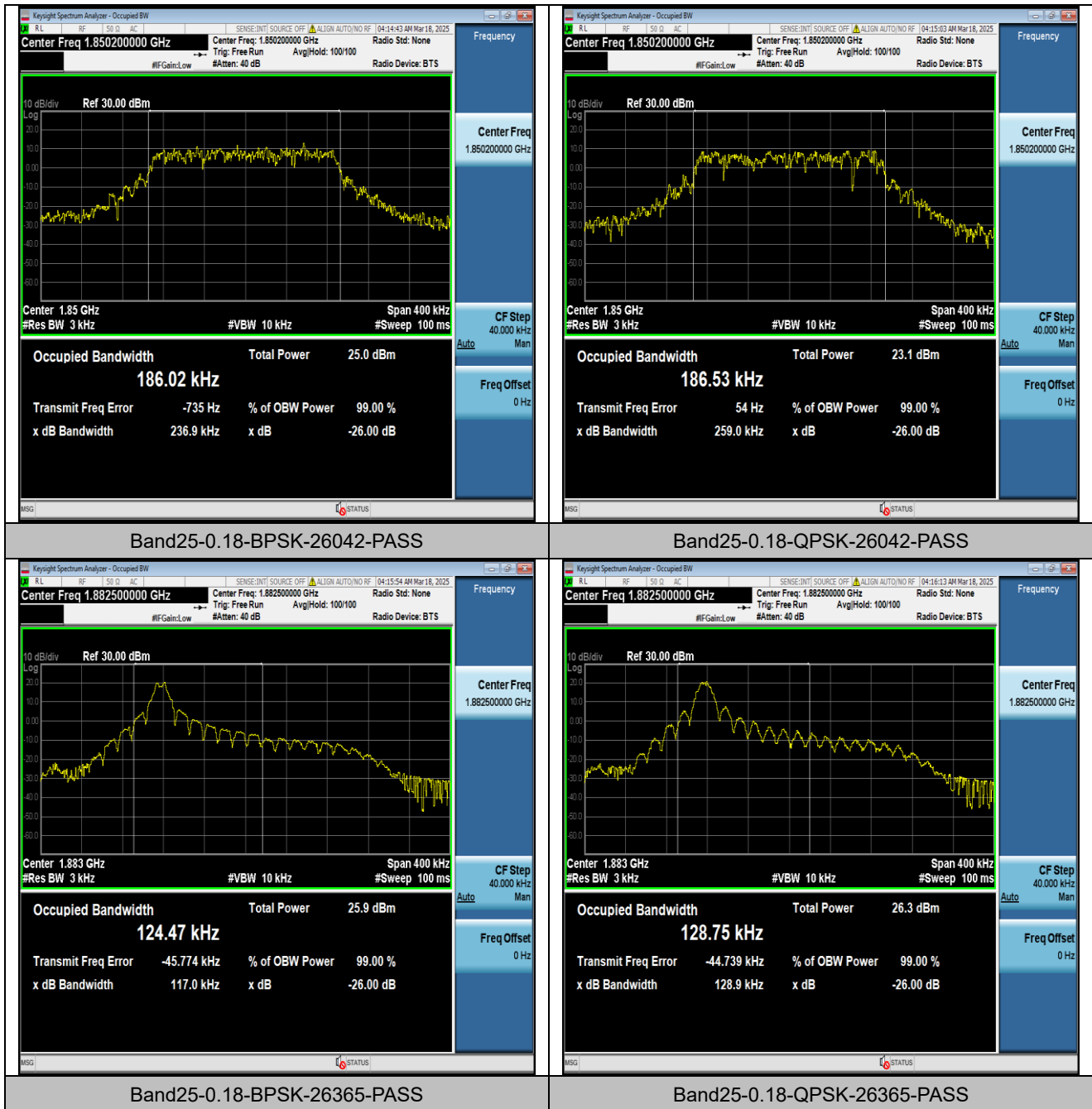
Test Result

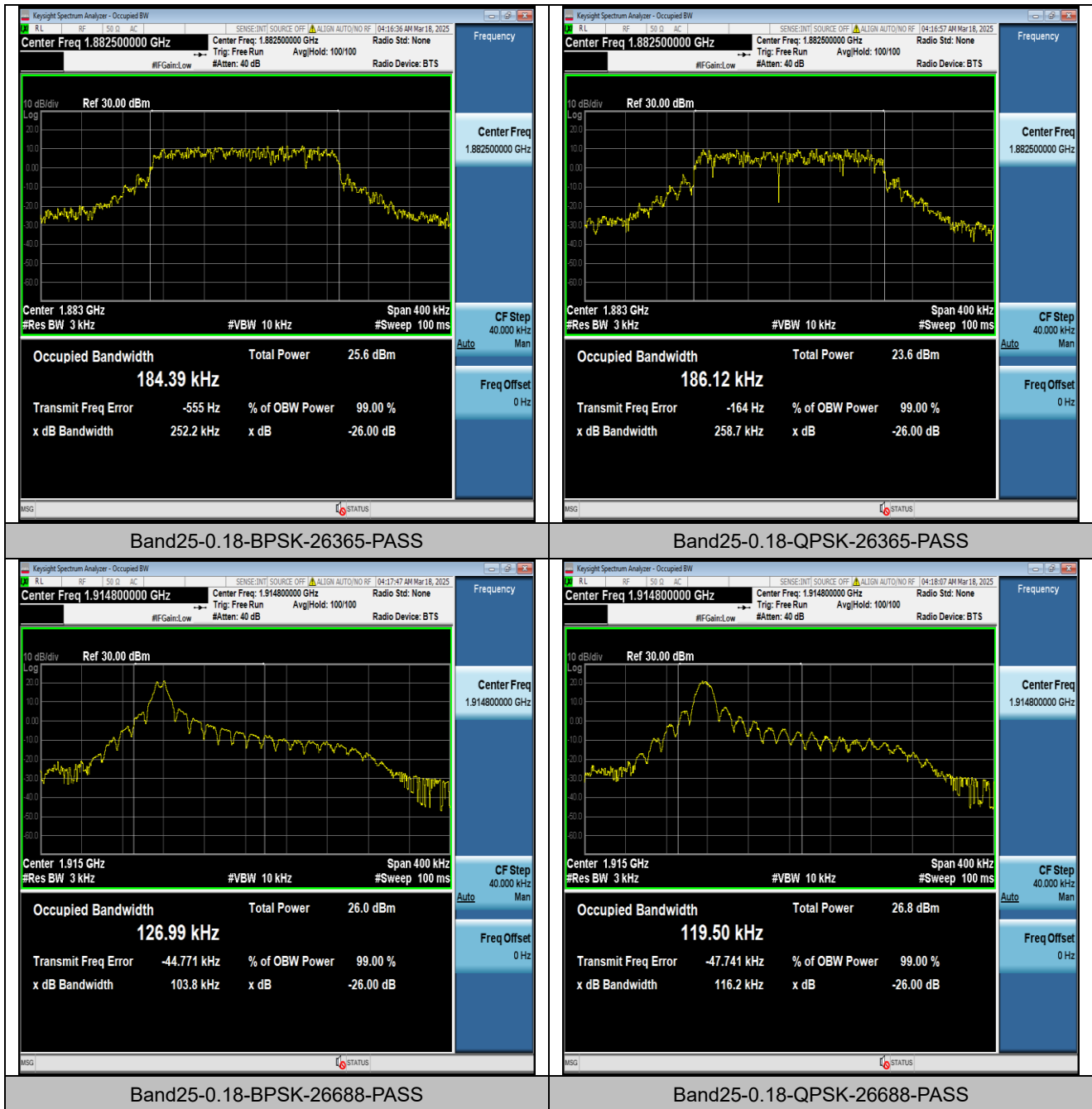
Band	OpMode	SCS	BW	Modulation	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band25	Stand-Alone	3.75kHz	0.18	BPSK	26042	1@0	0.06967	0.0467	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26042	1@0	0.08492	0.0504	PASS
Band25	Stand-Alone	3.75kHz	0.18	BPSK	26365	1@0	0.07000	0.0506	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	0.08538	0.0507	PASS
Band25	Stand-Alone	3.75kHz	0.18	BPSK	26688	1@0	0.07037	0.0475	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26688	1@0	0.08302	0.0499	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26042	1@0	0.12769	0.1043	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26042	1@0	0.12631	0.1167	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26042	12@0	0.18602	0.2369	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26042	12@0	0.18653	0.2590	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26365	1@0	0.12447	0.1170	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	1@0	0.12875	0.1289	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26365	12@0	0.18439	0.2522	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	0.18612	0.2587	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26688	1@0	0.12699	0.1038	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26688	1@0	0.11950	0.1162	PASS
Band25	Stand-Alone	15kHz	0.18	BPSK	26688	12@0	0.18396	0.2495	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26688	12@0	0.18866	0.2513	PASS

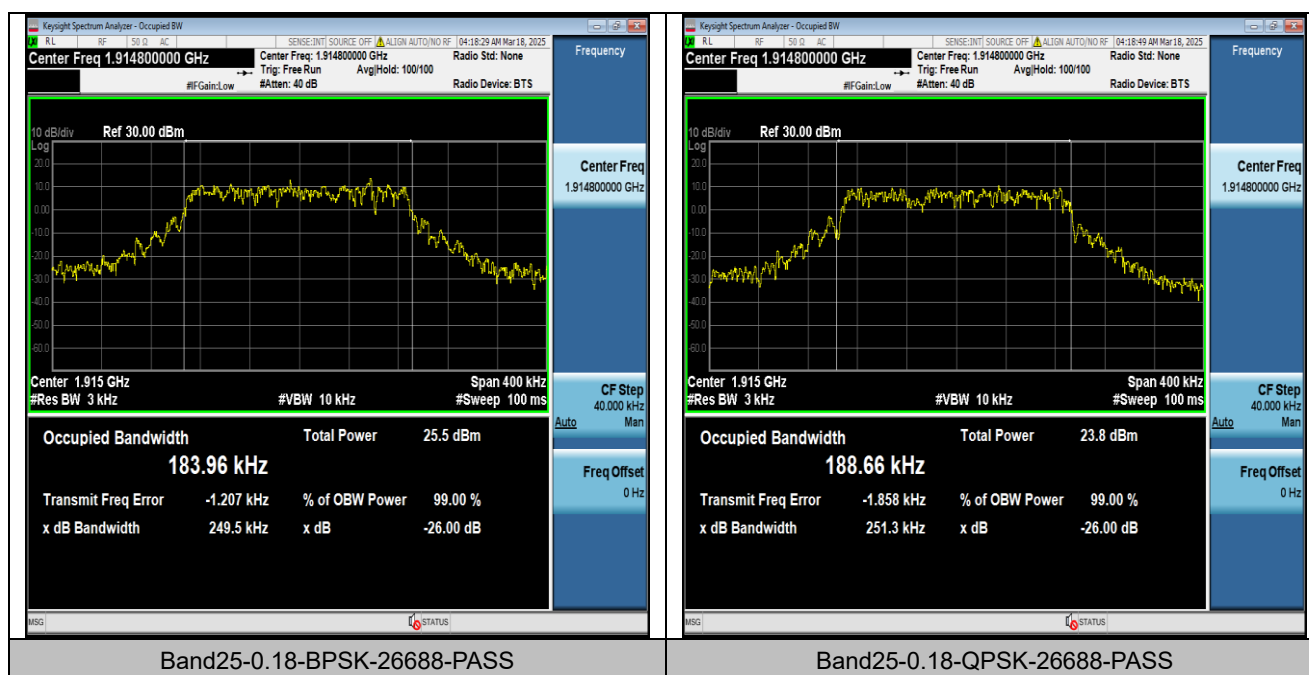
Test Graphs





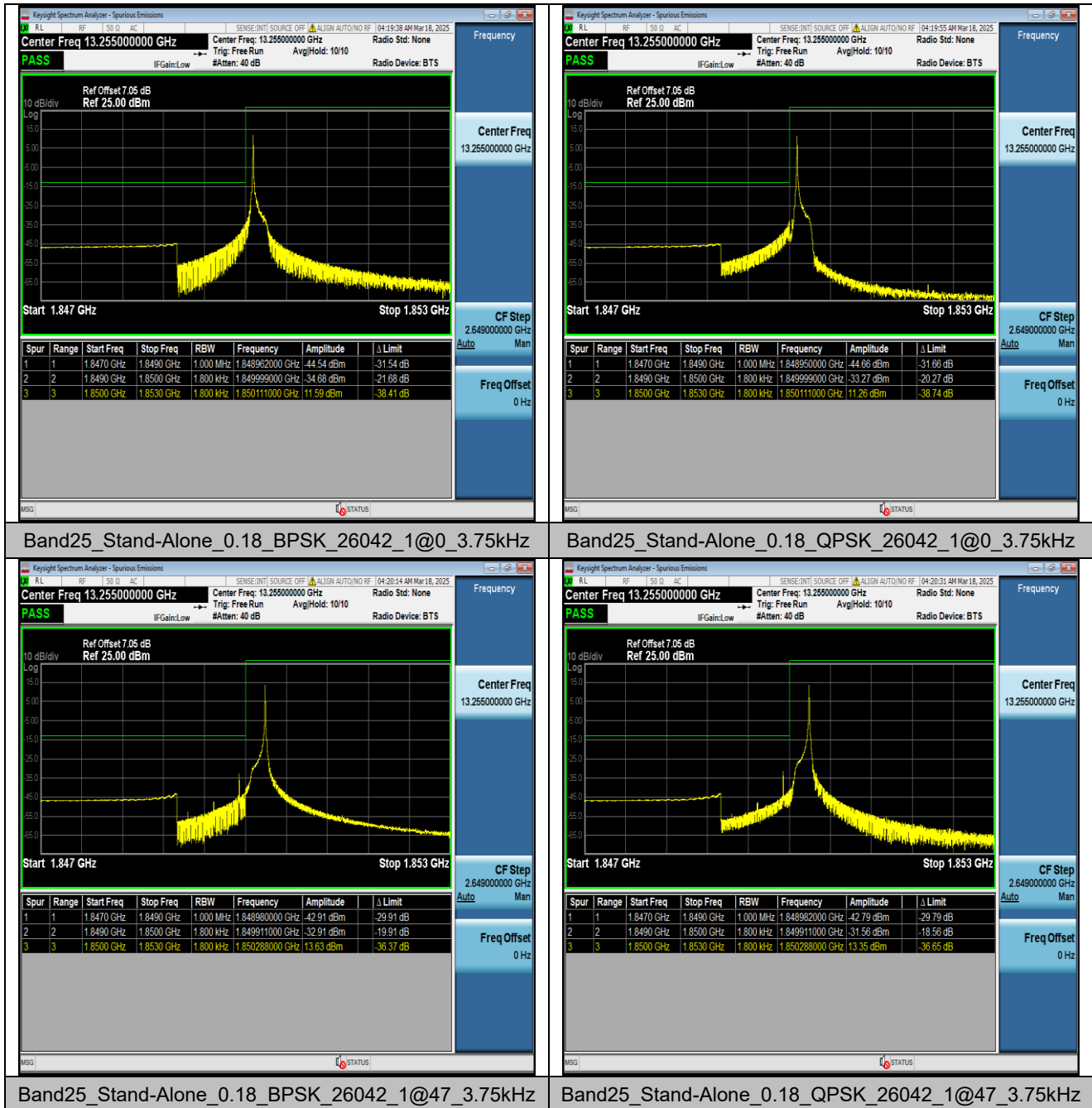


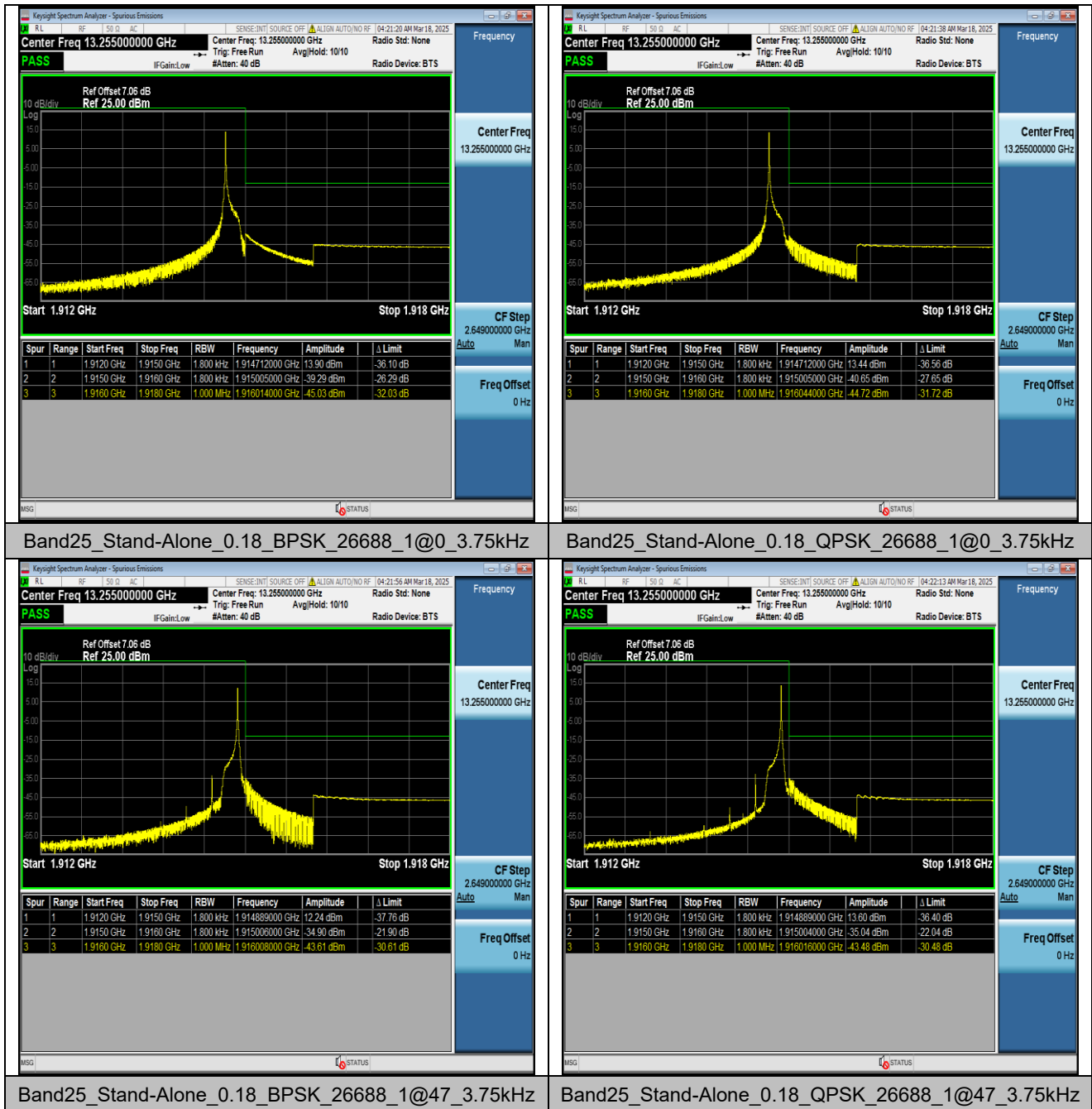


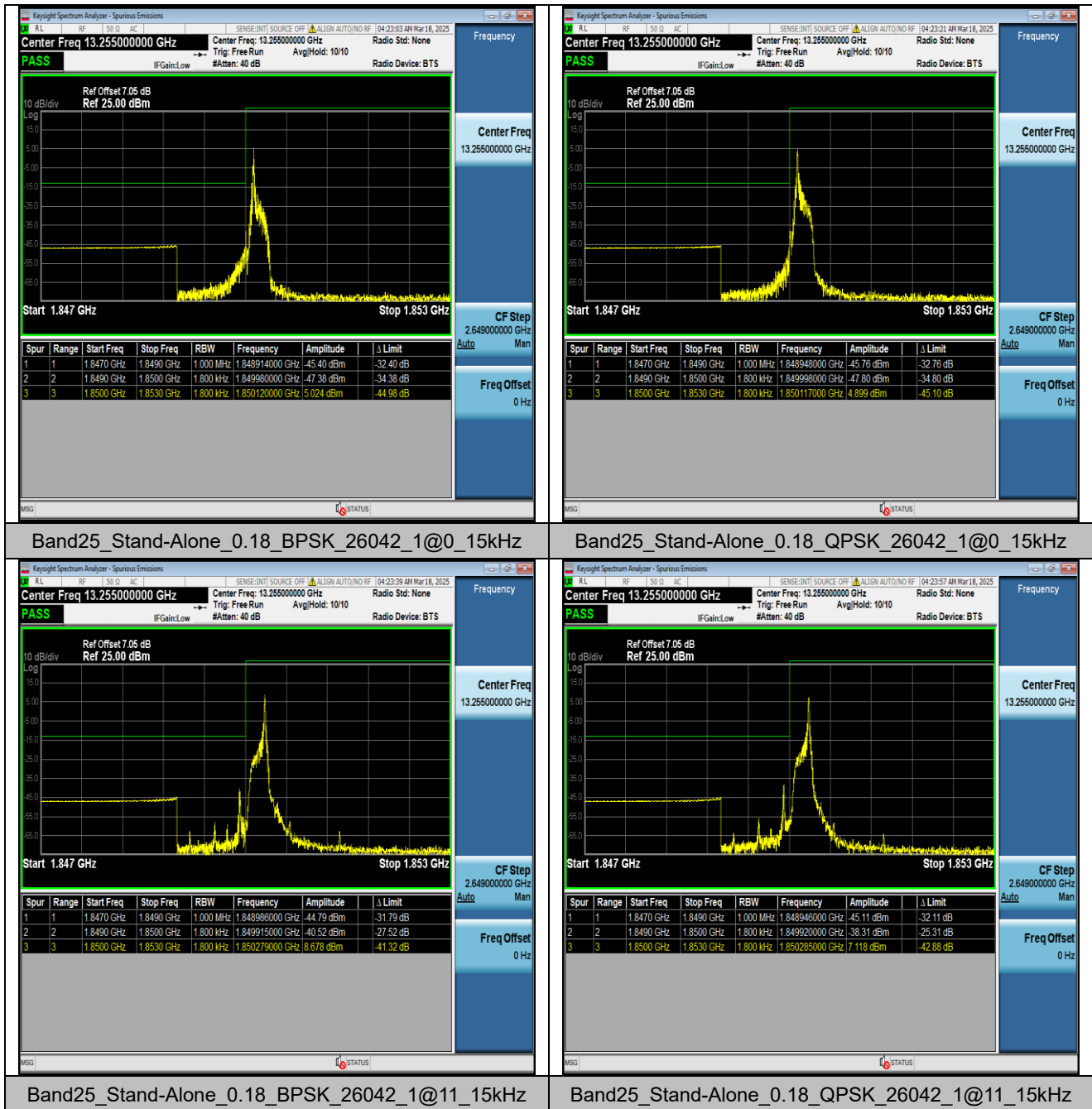


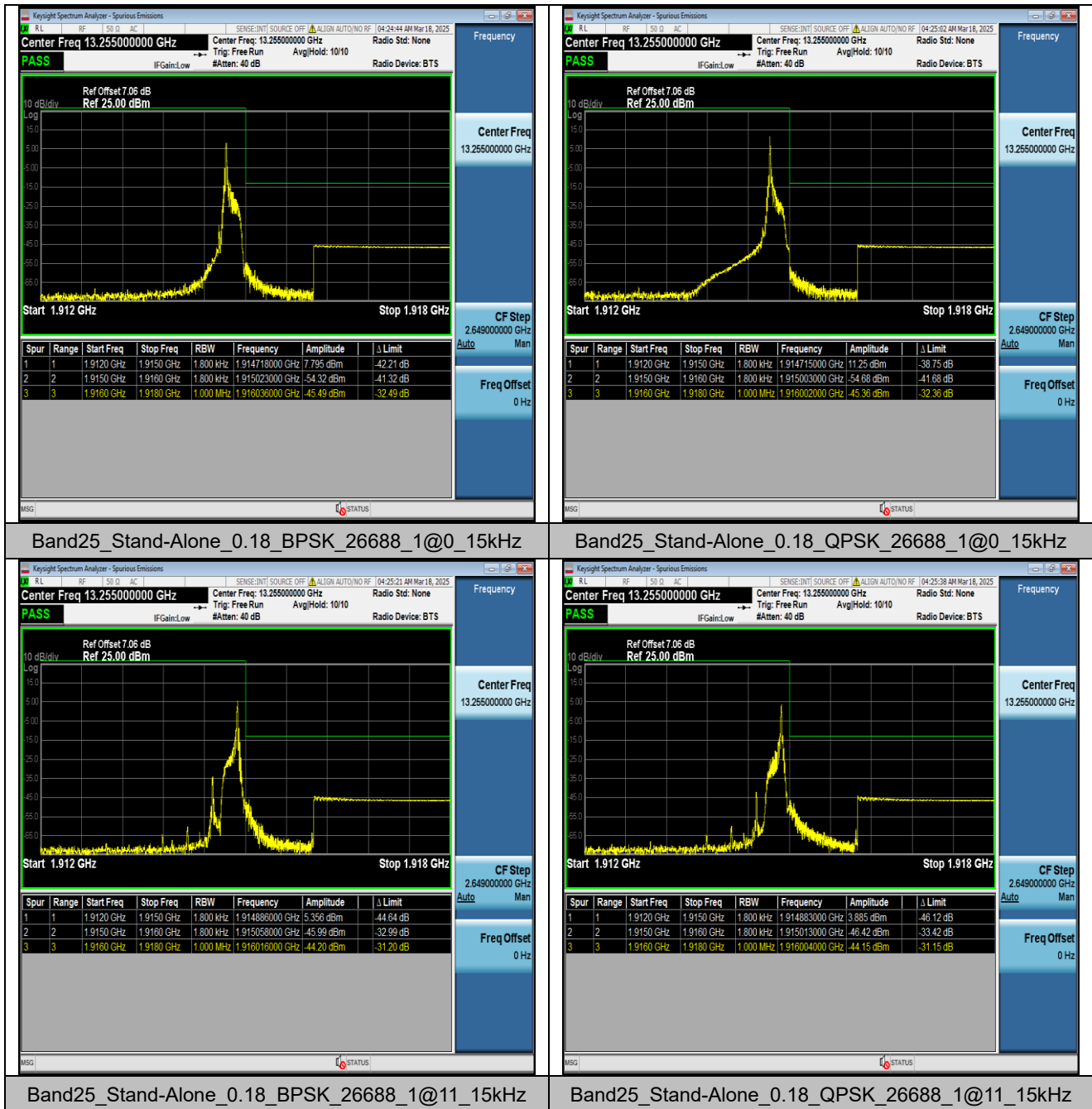
Band Edge for NB1

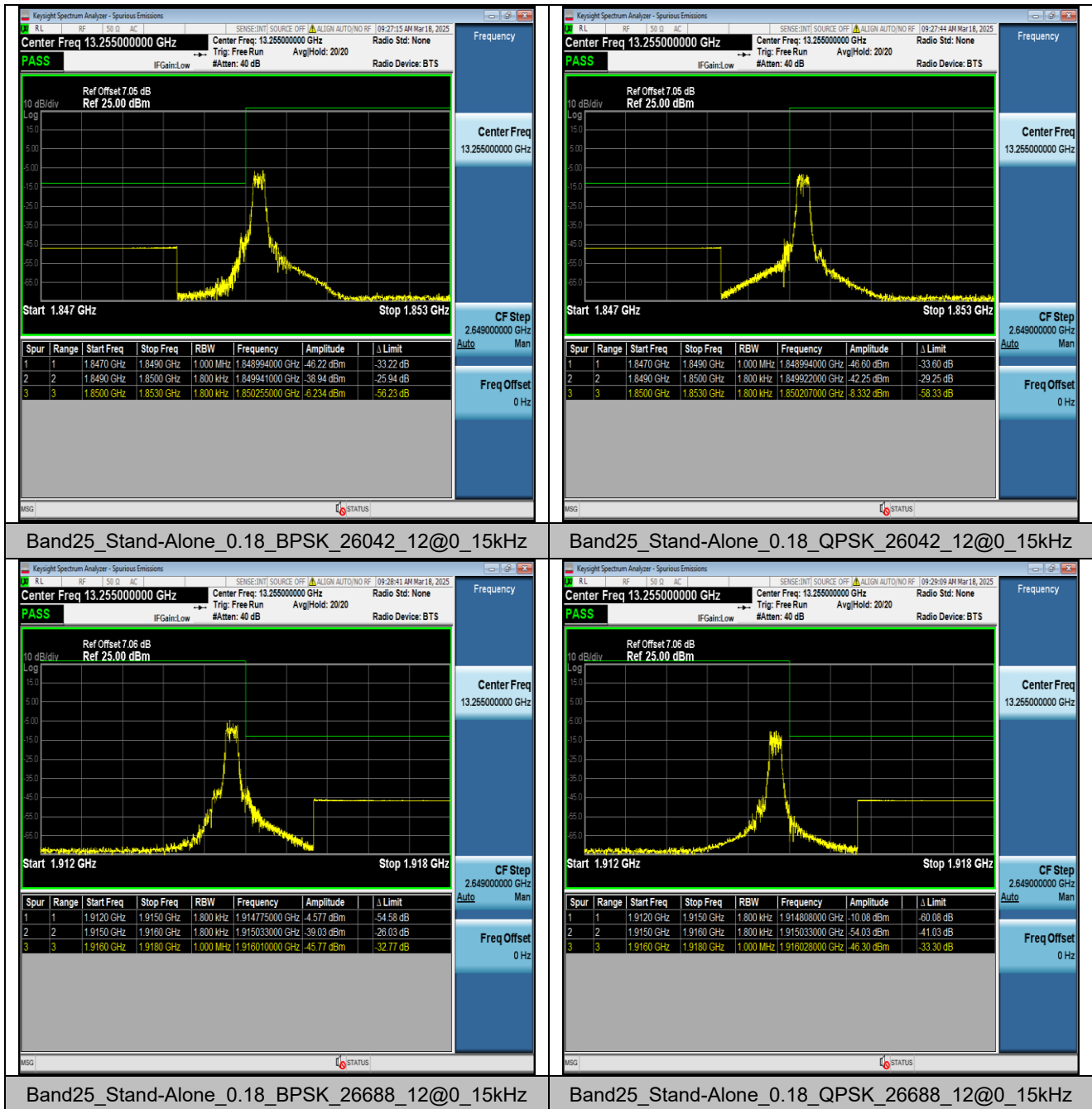
Test Graphs





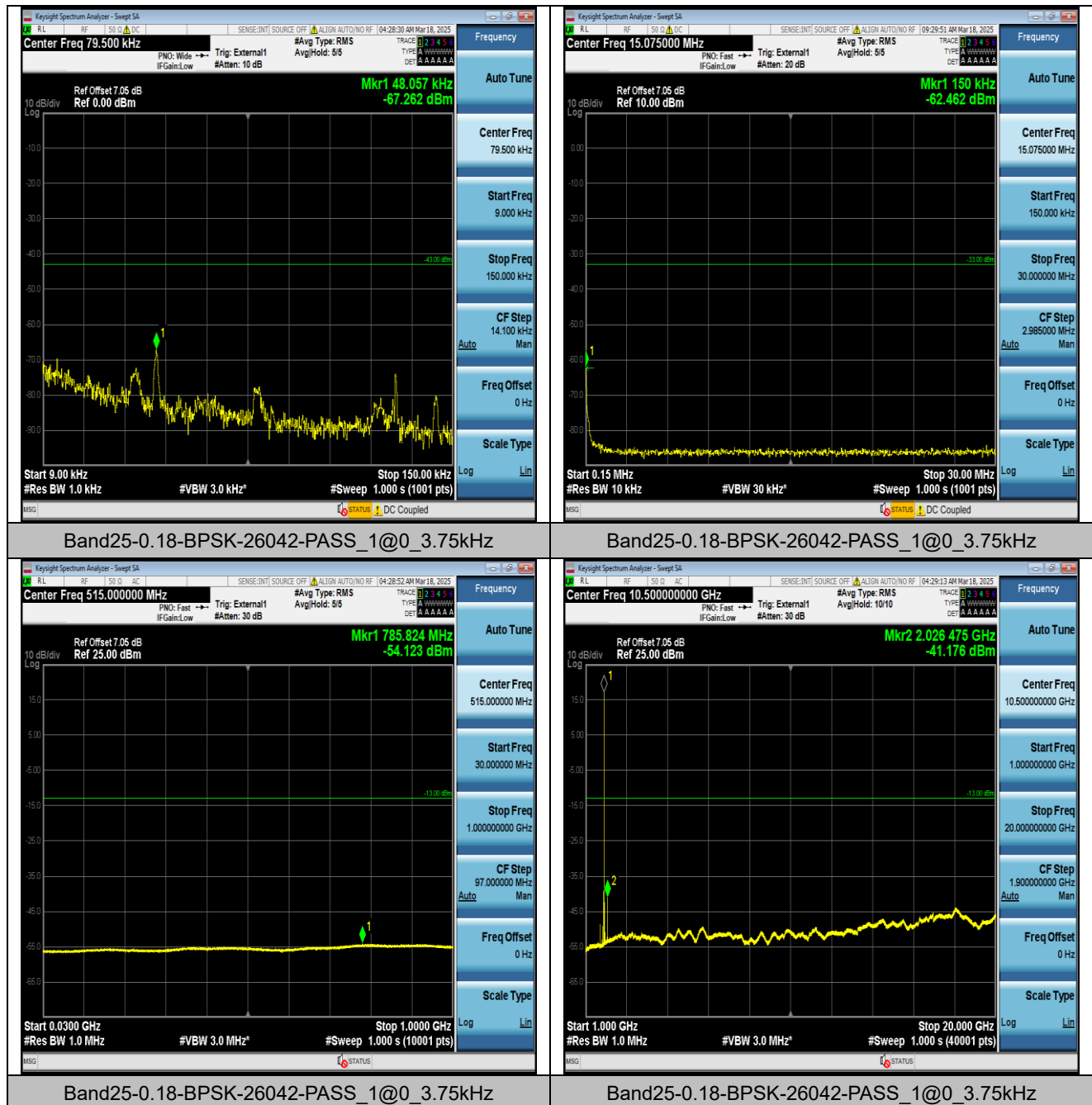


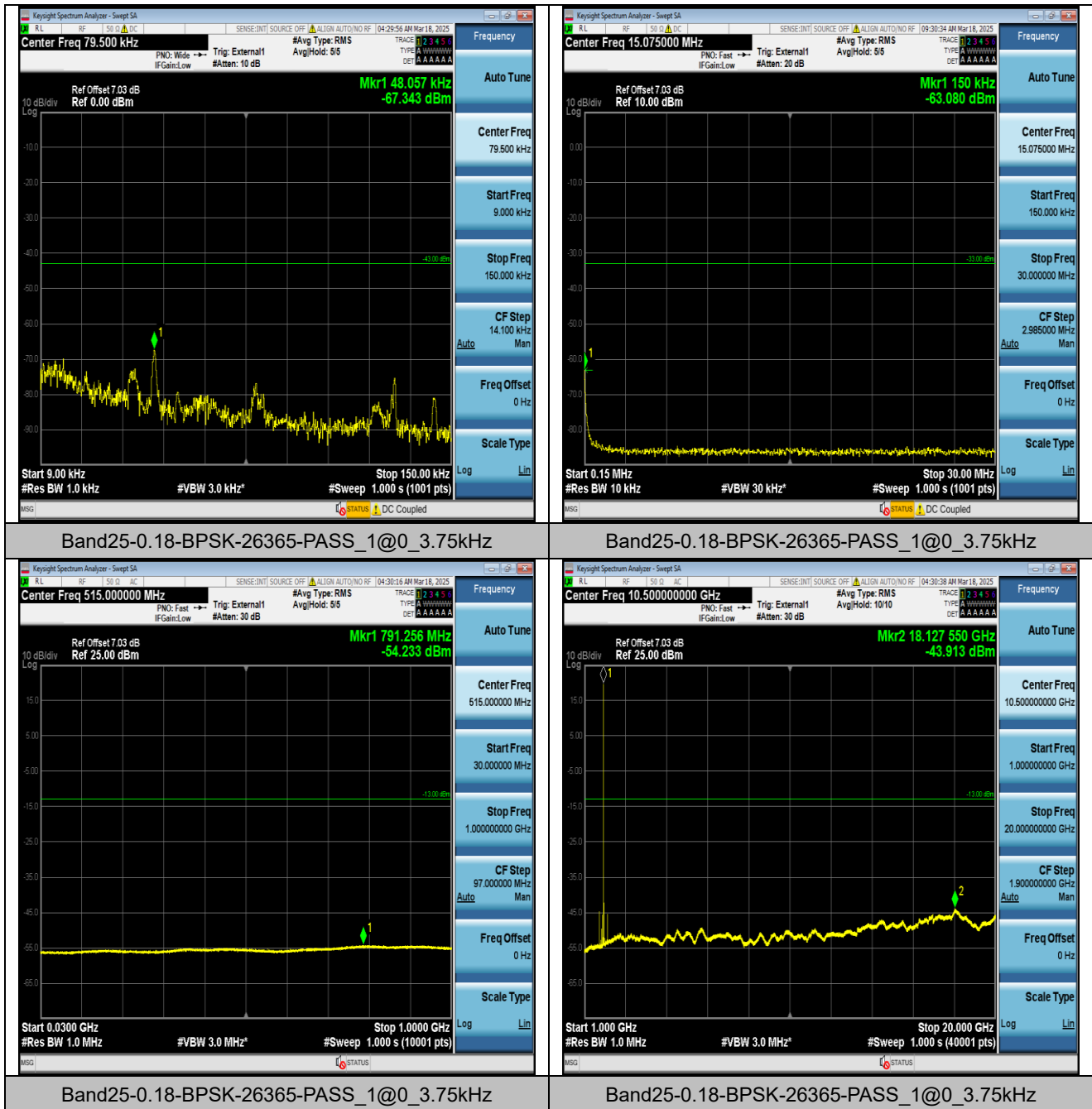


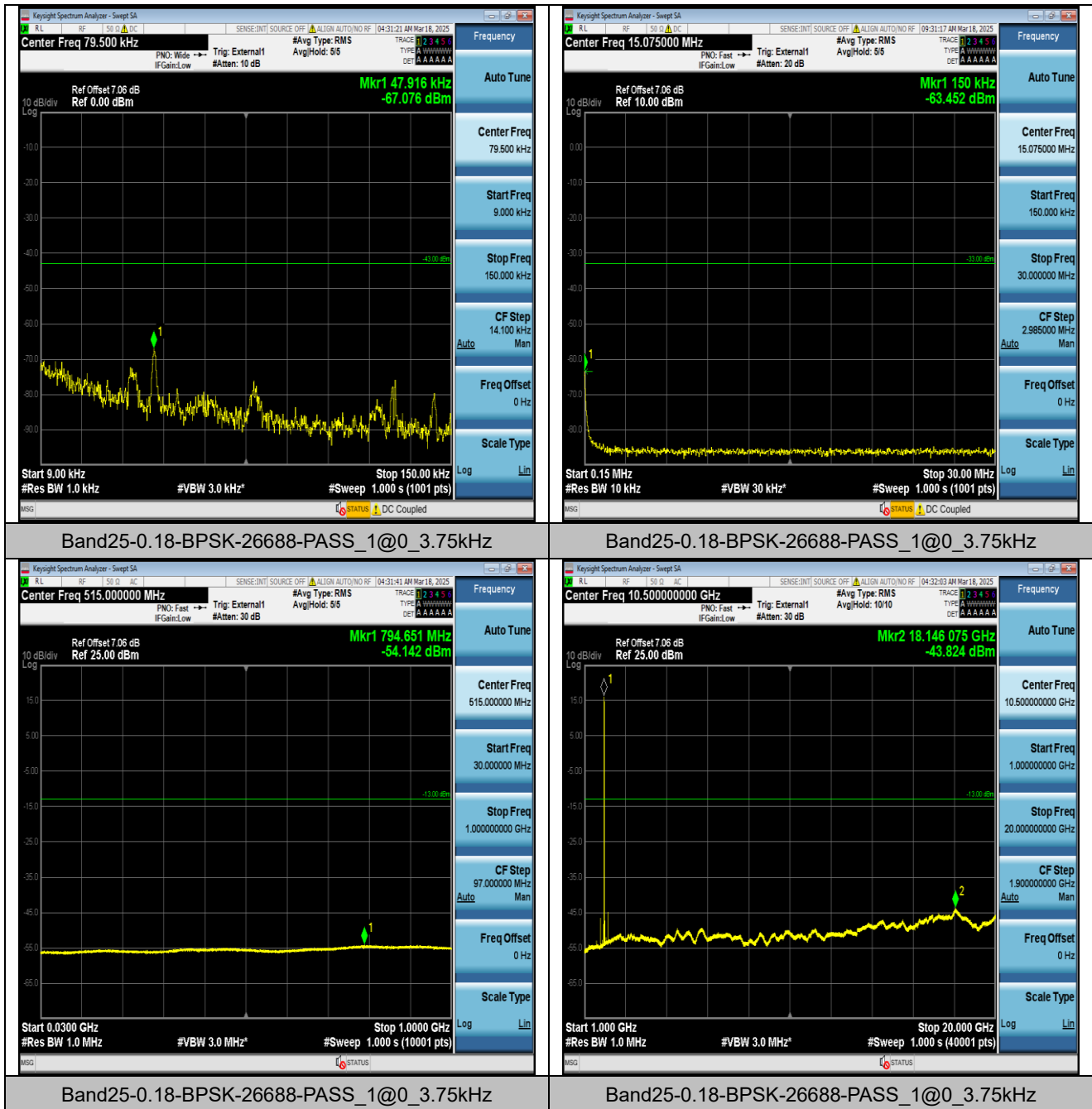


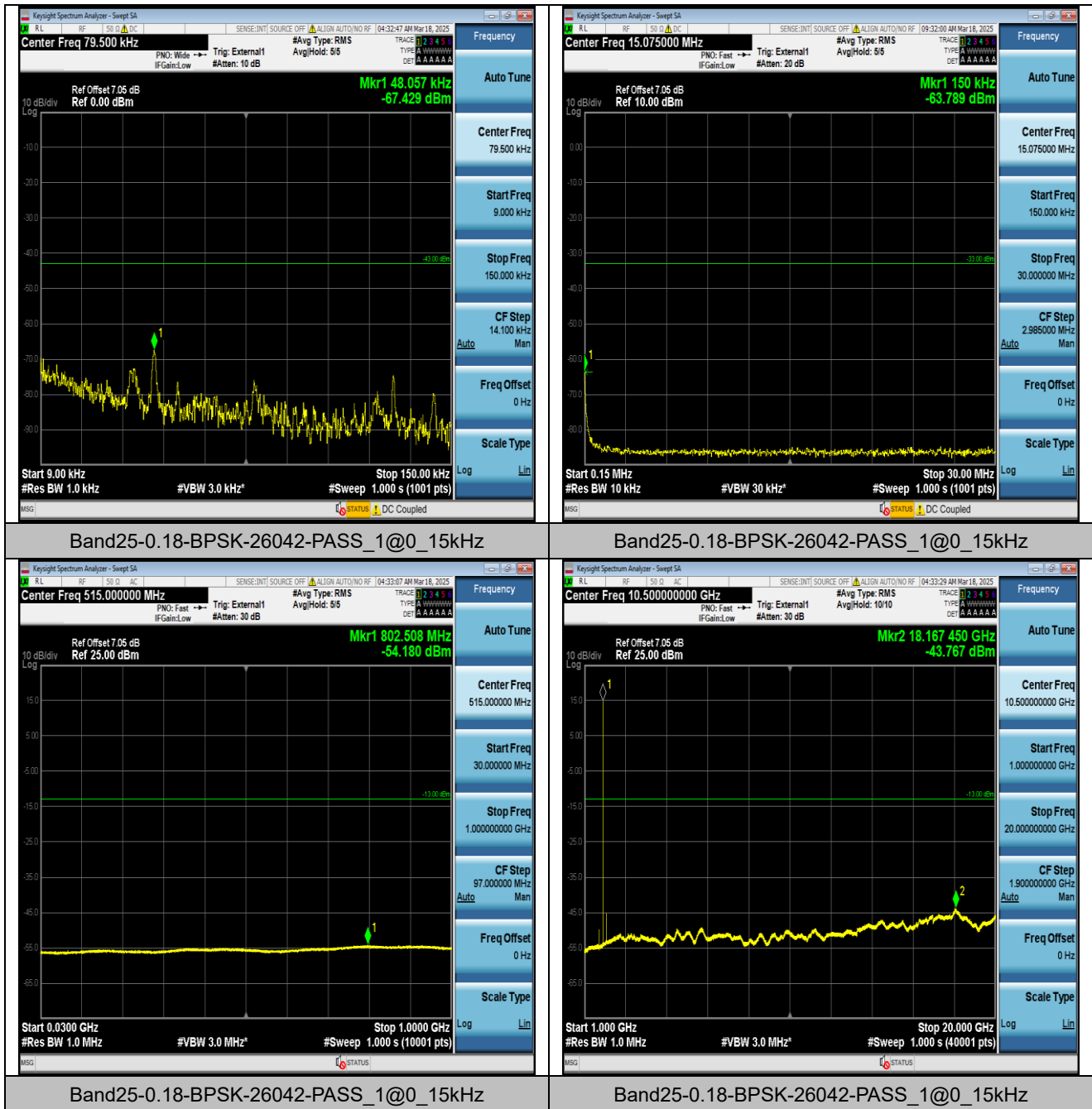
Conducted Spurious Emission for NB1

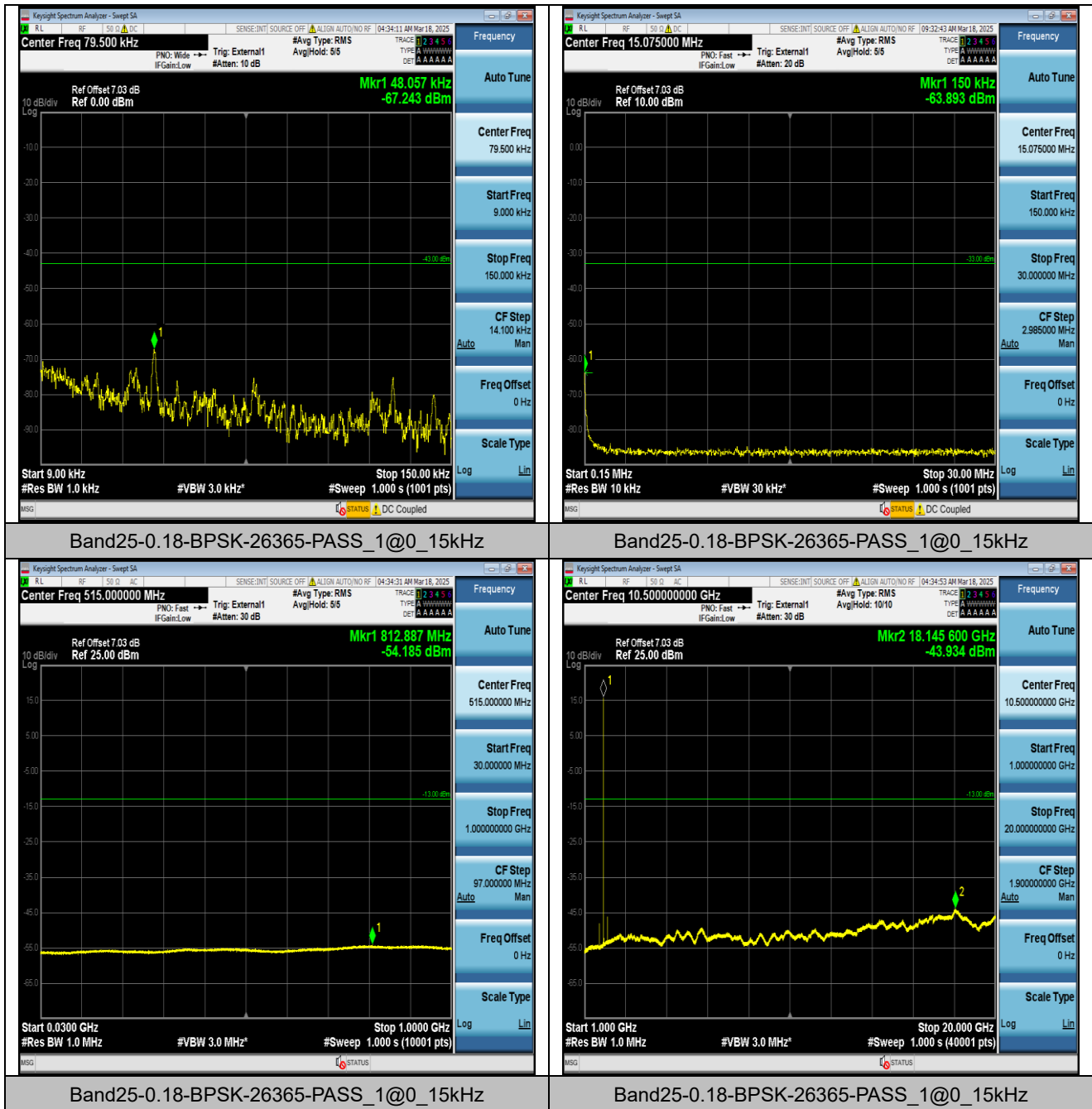
Test Graphs

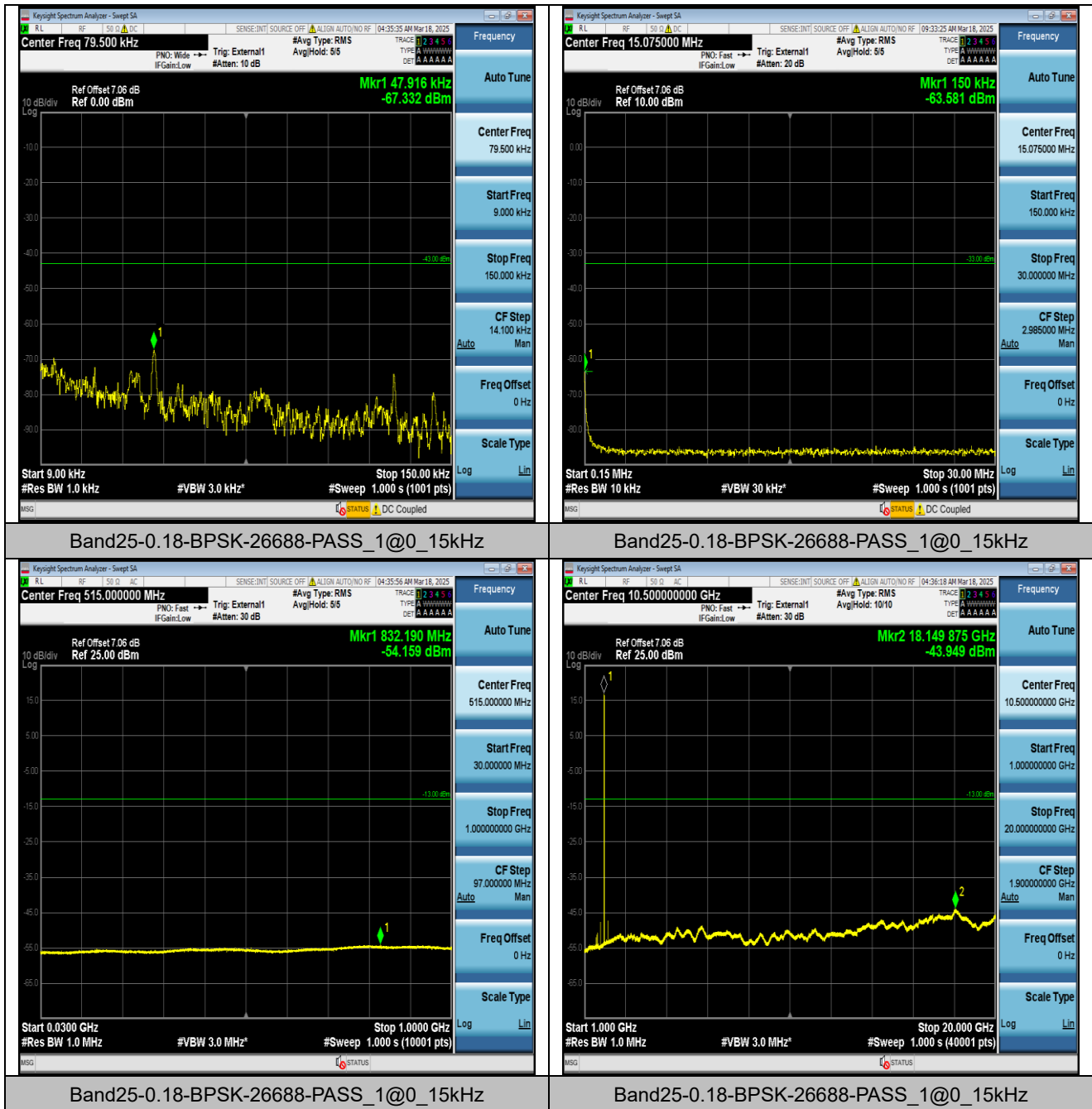












Frequency Stability for NB1

Test Result

Voltage											
Band	OpMode	Bandwidth	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	VN	NT	-11.50	-0.006109	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	VL	NT	-7.40	-0.003931	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	VH	NT	-5.90	-0.003134	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	VN	NT	-8.90	-0.004728	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	VL	NT	-5.90	-0.003134	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	VH	NT	-5.40	-0.002869	PASS

Temperature											
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	NV	-30	-6.30	-0.003347	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	NV	-20	-7.30	-0.003878	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	NV	-10	-9.50	-0.005046	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	NV	0	-9.70	-0.005153	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	NV	10	-8.10	-0.004303	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	NV	20	-6.00	-0.003187	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	NV	30	-6.10	-0.003240	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	NV	40	-3.50	-0.001859	PASS
Band25	Stand-Alone	3.75kHz	0.18	QPSK	26365	1@0	NV	50	-7.90	-0.004197	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	NV	-30	-6.60	-0.003506	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	NV	-20	-7.10	-0.003772	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	NV	-10	-5.10	-0.002709	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	NV	0	-8.20	-0.004356	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	NV	10	-4.10	-0.002178	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	NV	20	-3.10	-0.001647	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	NV	30	-6.80	-0.003612	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	NV	40	-6.20	-0.003293	PASS
Band25	Stand-Alone	15kHz	0.18	QPSK	26365	12@0	NV	50	-4.50	-0.002390	PASS

~The End~