

Appendix-B LTE Band 2

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.51	25.1	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.72	25.31	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.69	25.28	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.83	24.42	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.51	24.1	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.56	24.15	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.52	24.11	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.71	23.3	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.61	25.2	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.73	25.32	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.72	25.31	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.75	24.34	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.68	24.27	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.46	24.05	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.48	24.07	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.57	23.16	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.57	25.16	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.69	25.28	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.46	25.05	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.86	24.45	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.44	24.03	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.38	23.97	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.56	24.15	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.68	23.27	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.53	25.12	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.74	25.33	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.77	25.36	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.79	24.38	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.46	24.05	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.62	24.21	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.62	24.21	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.65	23.24	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.79	25.38	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.6	25.19	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.66	25.25	33.00	PASS

Band2	3MHz	QPSK	18900	15RB#0	22.81	24.4	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.62	24.21	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.6	24.19	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.35	23.94	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.73	23.32	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.86	25.45	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.52	25.11	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.65	25.24	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.85	24.44	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.64	24.23	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.58	24.17	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.47	24.06	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.93	23.52	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.64	25.23	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.59	25.18	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.61	25.2	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.72	24.31	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.5	24.09	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.53	24.12	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.48	24.07	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.7	23.29	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.41	25	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.78	25.37	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.56	25.15	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.62	24.21	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.36	23.95	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.43	24.02	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.57	24.16	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.69	23.28	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.63	25.22	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.62	25.21	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.6	25.19	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.88	24.47	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.6	24.19	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.42	24.01	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.59	24.18	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.93	23.52	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.78	25.37	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.91	25.5	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.56	25.15	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.71	24.3	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.69	24.28	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.78	24.37	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.66	24.25	33.00	PASS

Band2	10MHz	16QAM	18650	50RB#0	21.8	23.39	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.61	25.2	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.55	25.14	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.52	25.11	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.69	24.28	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.43	24.02	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.46	24.05	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.54	24.13	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.8	23.39	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.79	25.38	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.81	25.4	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.72	25.31	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.9	24.49	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.79	24.38	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.74	24.33	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.74	24.33	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.94	23.53	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.58	25.17	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.98	25.57	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.54	25.13	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.57	24.16	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.5	24.09	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.35	23.94	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.32	23.91	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.73	23.32	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.52	25.11	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.71	25.3	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.64	25.23	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.77	24.36	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.56	24.15	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.36	23.95	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.65	24.24	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.83	23.42	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.65	25.24	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.73	25.32	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.59	25.18	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.87	24.46	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.66	24.25	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.69	24.28	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.38	23.97	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.96	23.55	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.63	25.22	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	24.04	25.63	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.62	25.21	33.00	PASS

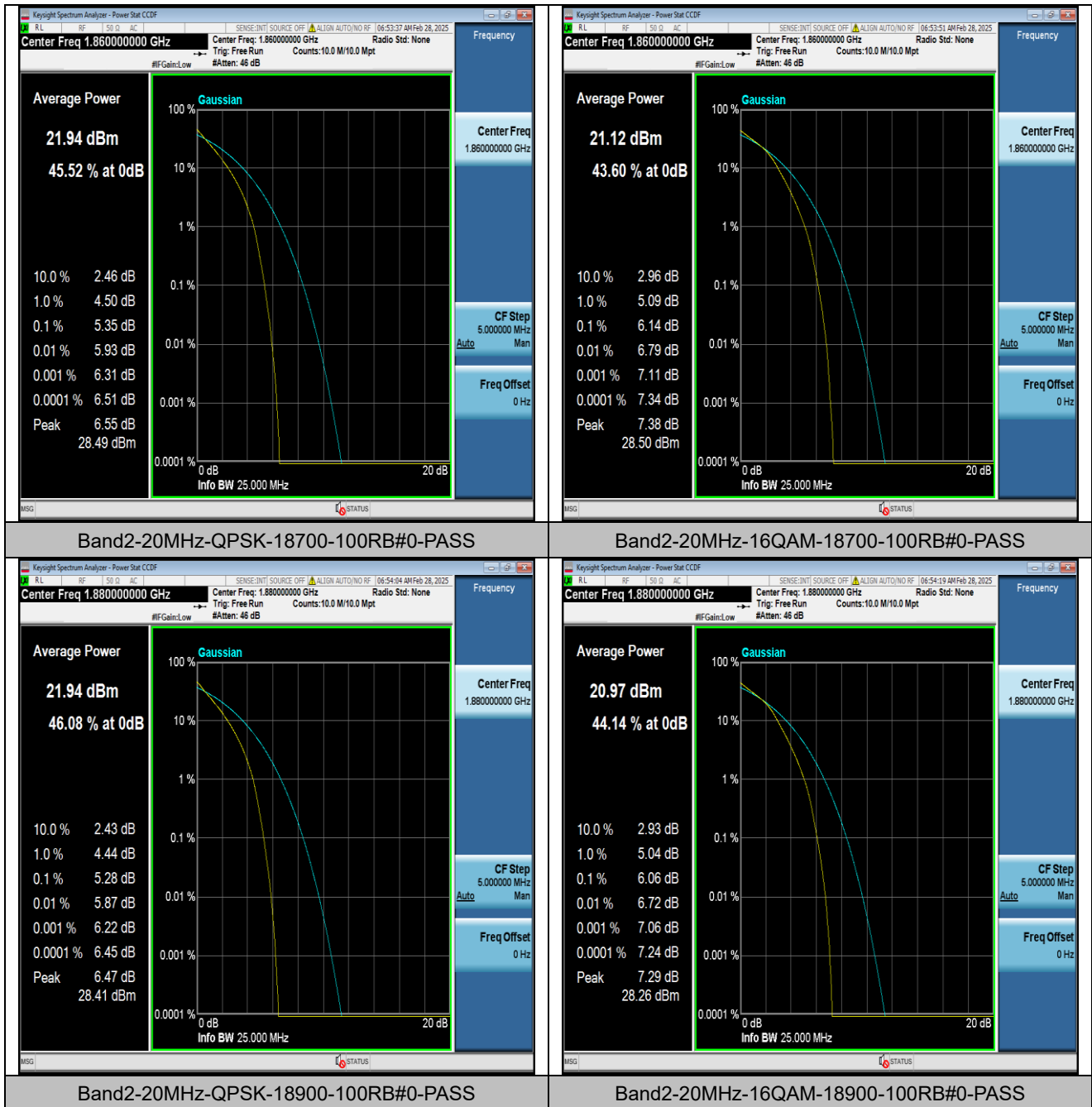
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Band2	20MHz	16QAM	18700	1RB#0	22.6	24.19	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.45	24.04	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.35	23.94	33.00	PASS
Band2	20MHz	16QAM	18700	100RB#0	21.61	23.2	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.51	25.1	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.84	25.43	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.34	24.93	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.69	24.28	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.44	24.03	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.53	24.12	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.42	24.01	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.66	23.25	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.58	25.17	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.88	25.47	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.81	25.4	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.86	24.45	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.41	24	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.57	24.16	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.4	23.99	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.83	23.42	33.00	PASS

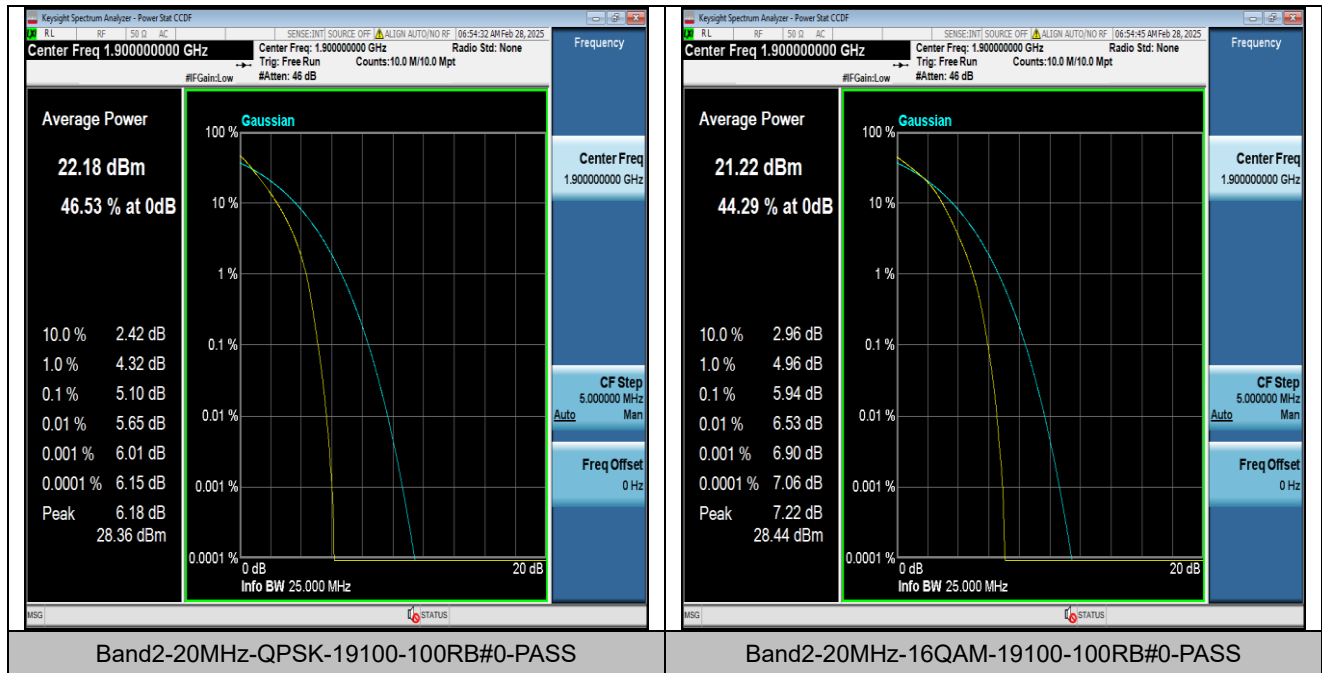
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	5.35	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.14	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.28	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.06	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.10	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.94	13	PASS

Test Graphs



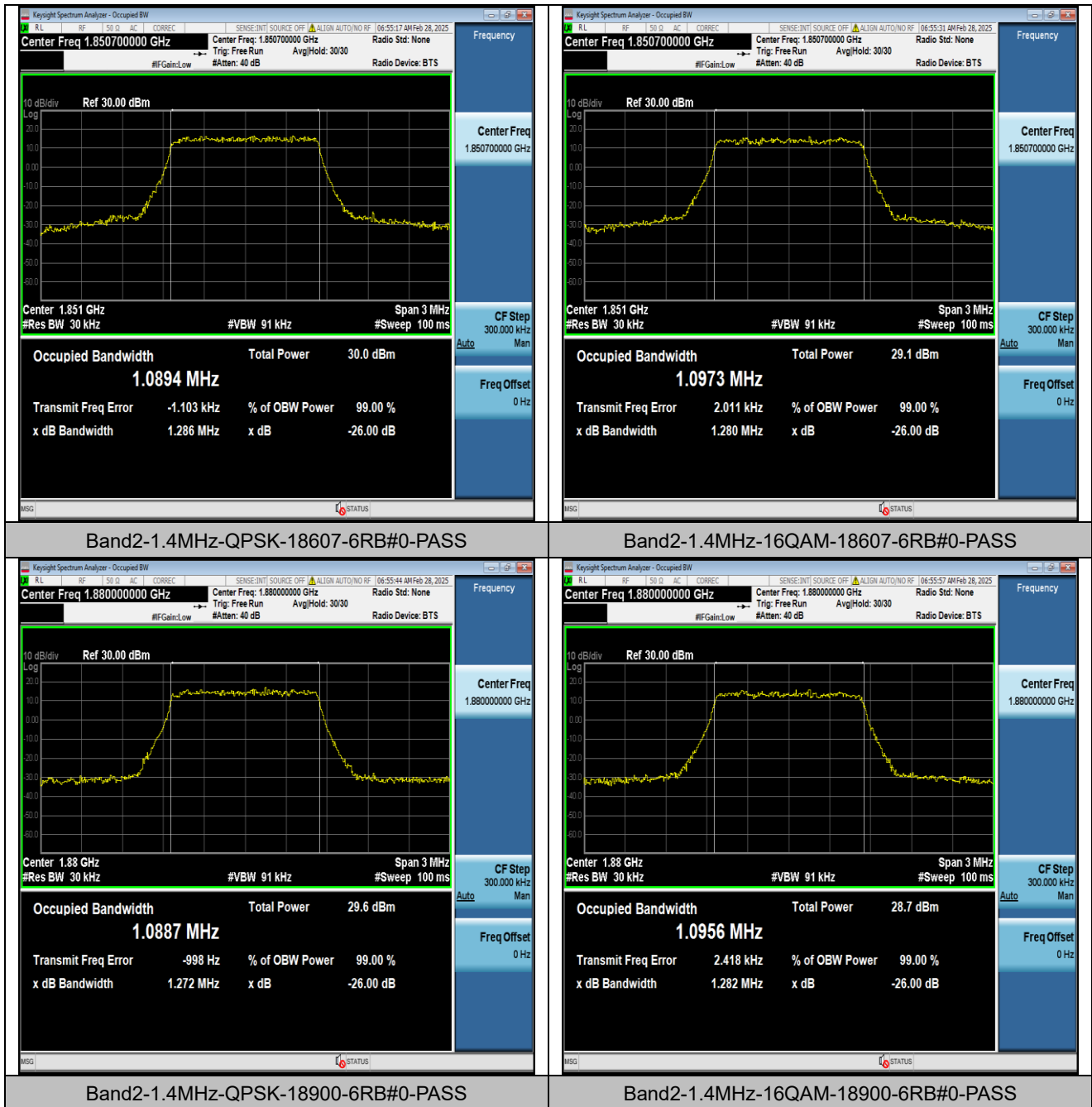


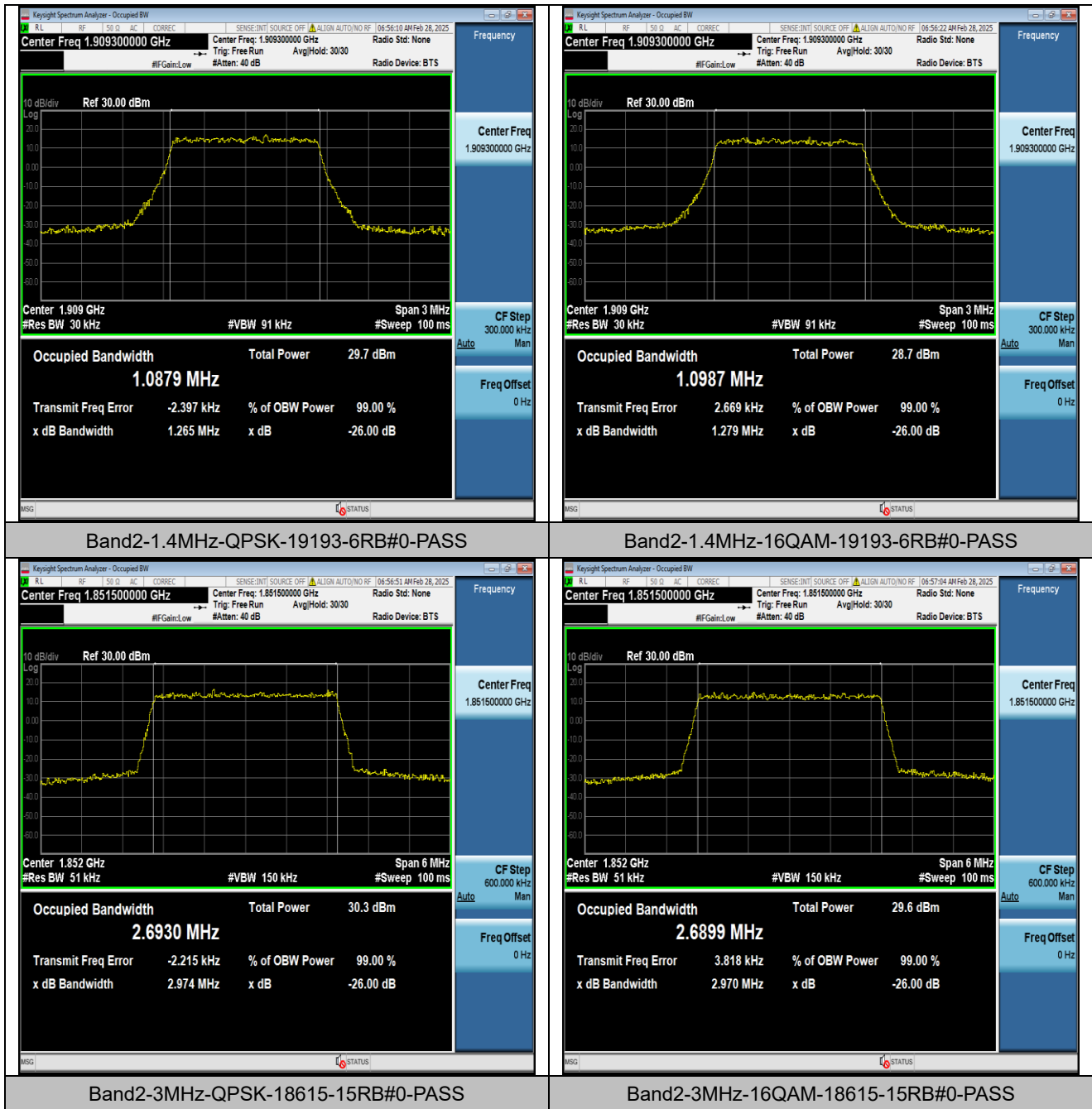
26dB Bandwidth and Occupied Bandwidth

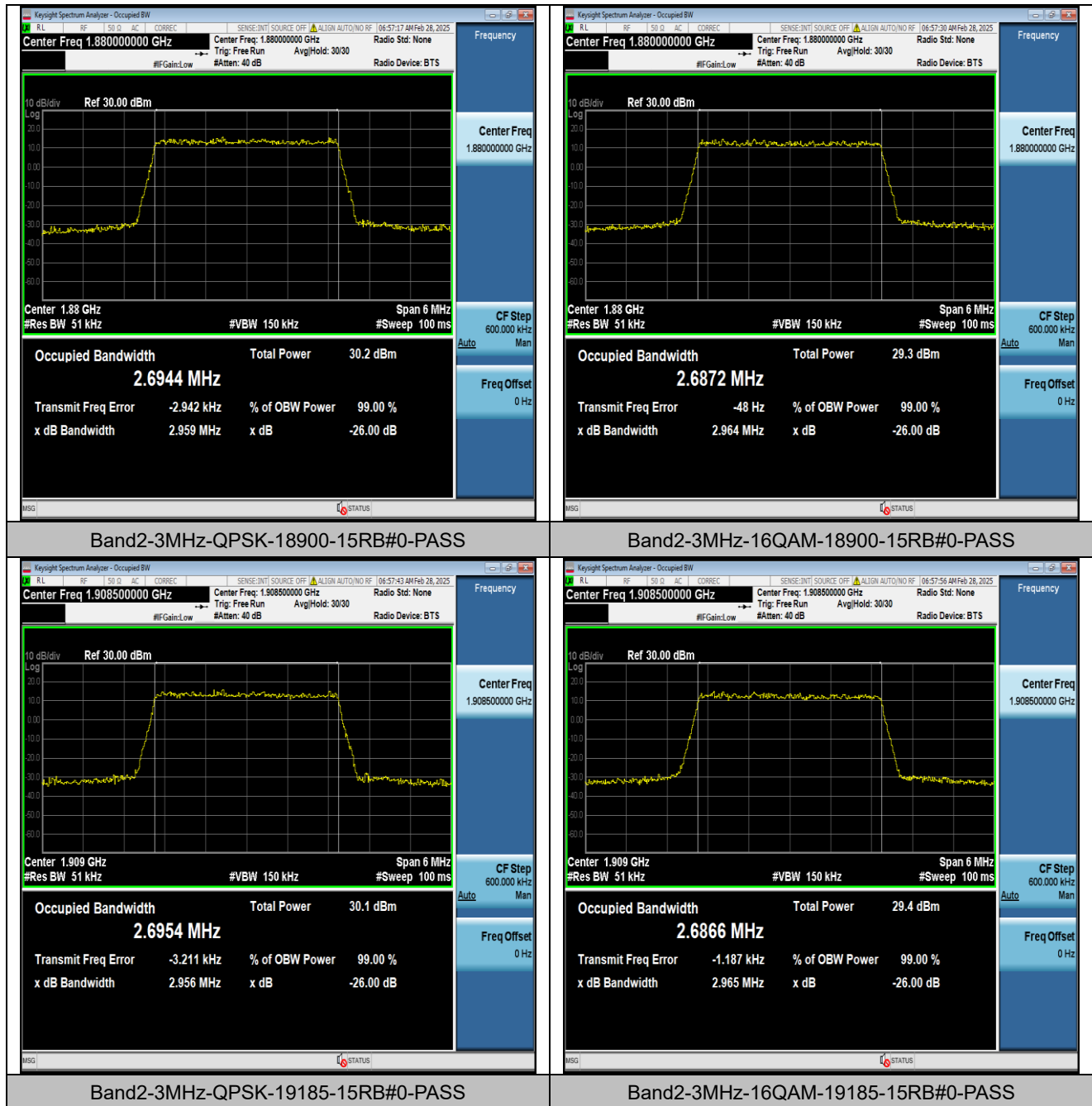
Test Result

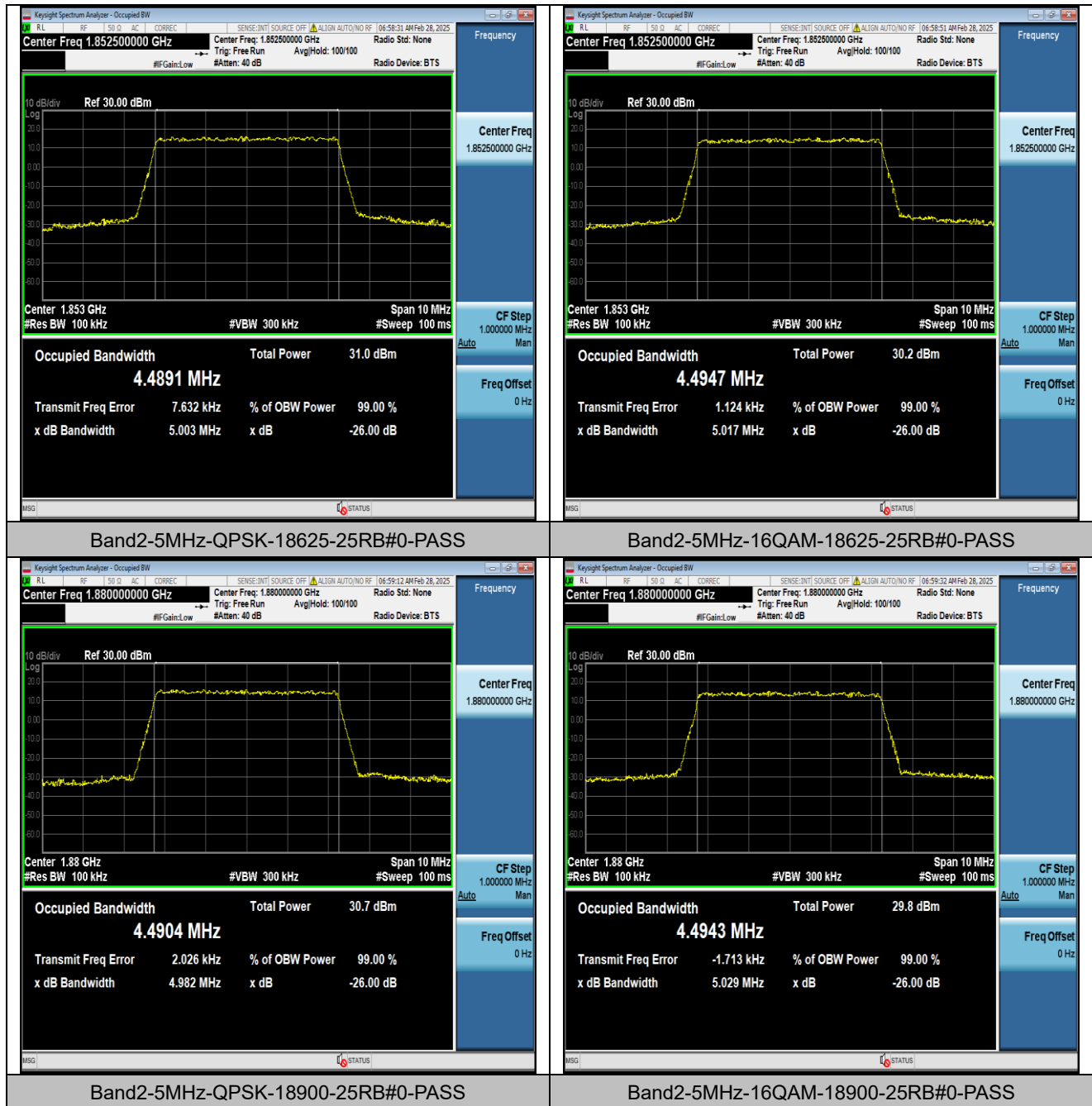
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0894	1.286	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0973	1.280	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0887	1.272	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0956	1.282	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0879	1.265	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0987	1.279	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6930	2.974	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6899	2.970	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6944	2.959	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6872	2.964	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6954	2.956	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6866	2.965	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4891	5.003	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4947	5.017	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4904	4.982	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4943	5.029	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4852	4.975	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4893	5.030	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9771	9.859	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9486	9.795	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9743	9.862	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9383	9.848	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9634	9.830	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9410	9.812	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.456	14.70	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.439	14.75	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.461	14.77	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.443	14.76	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.420	14.69	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.404	14.64	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.940	19.57	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.874	19.40	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.964	19.56	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.892	19.42	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.908	19.52	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.871	19.46	PASS

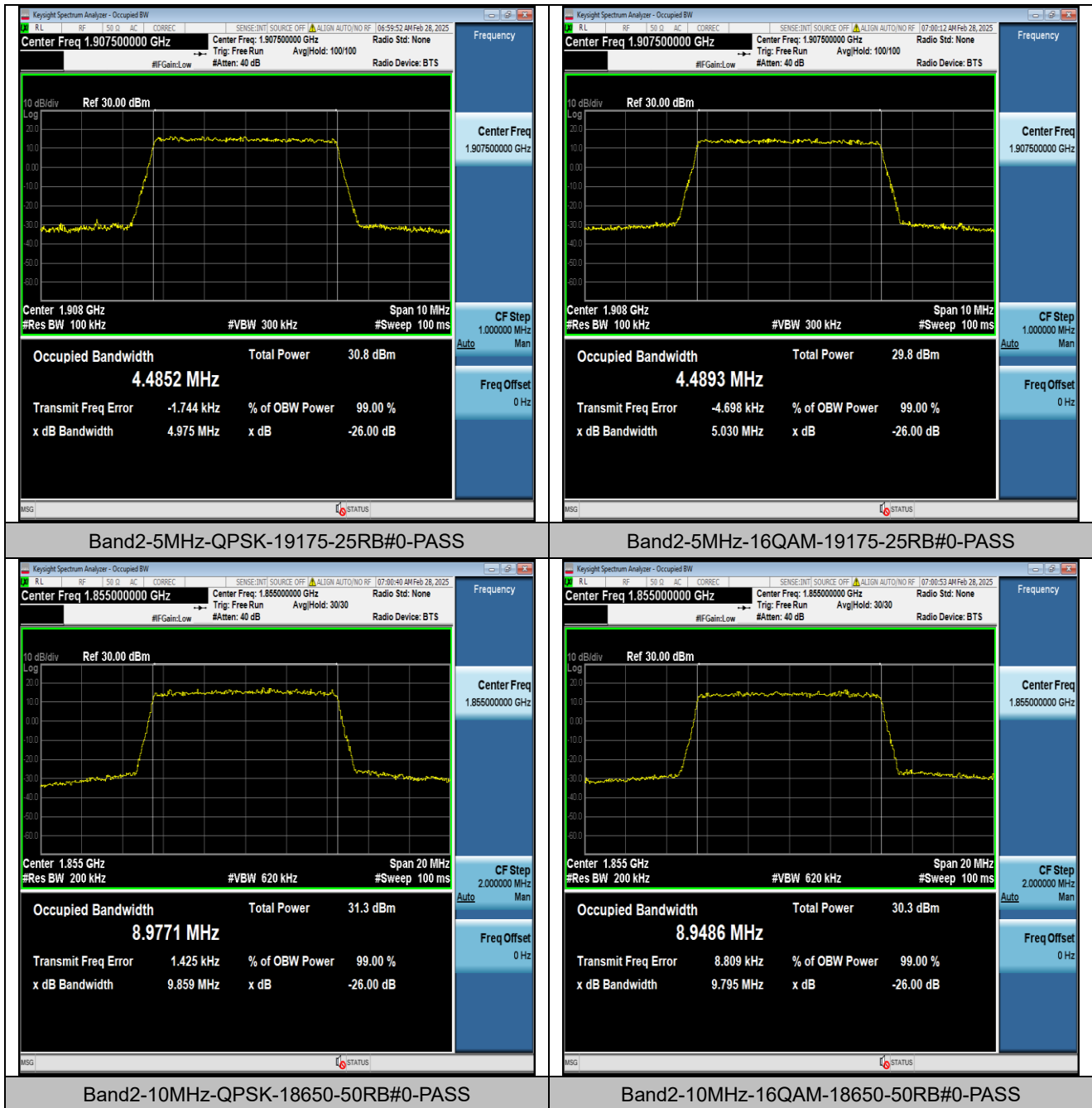
Test Graphs

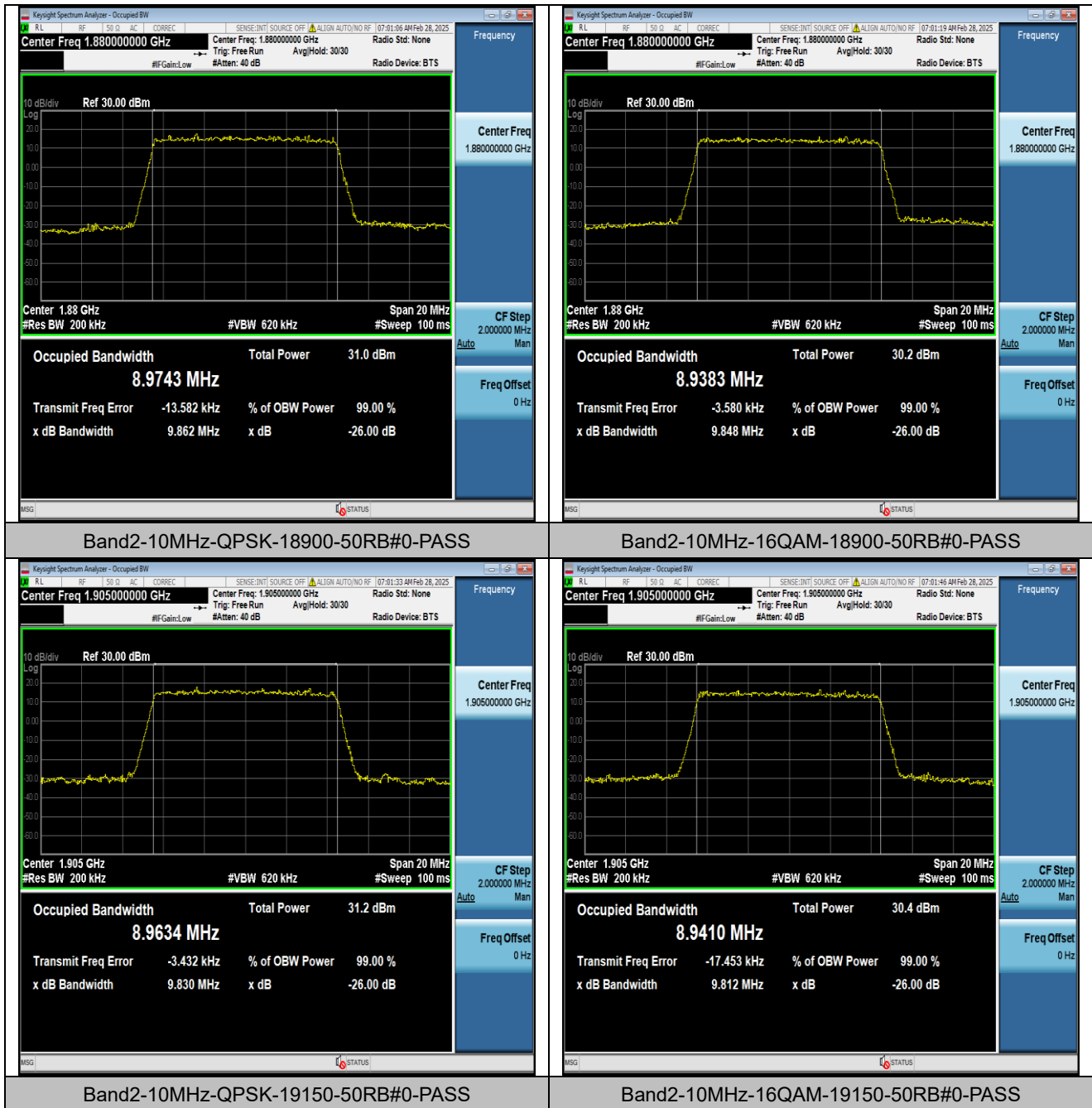


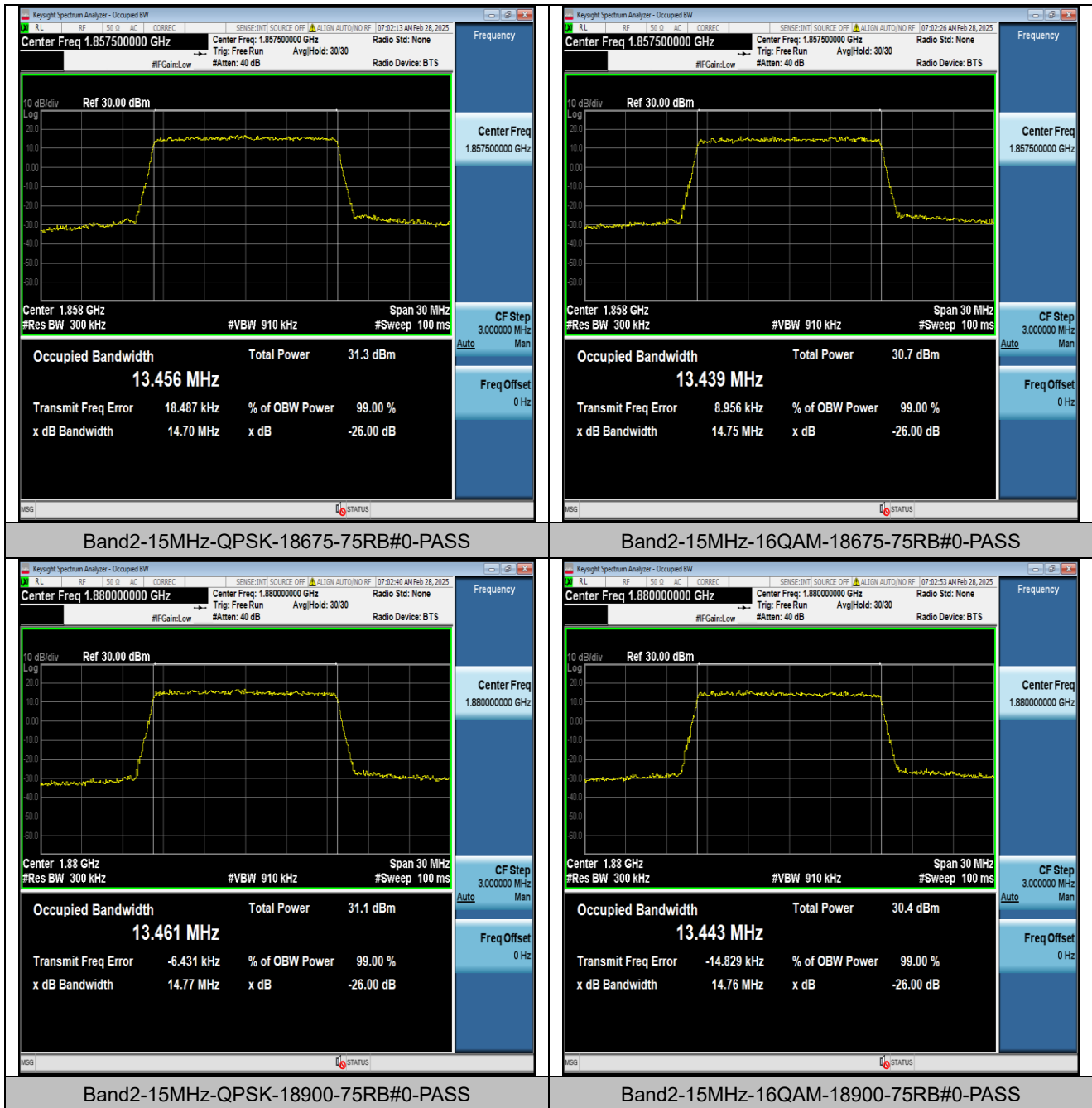


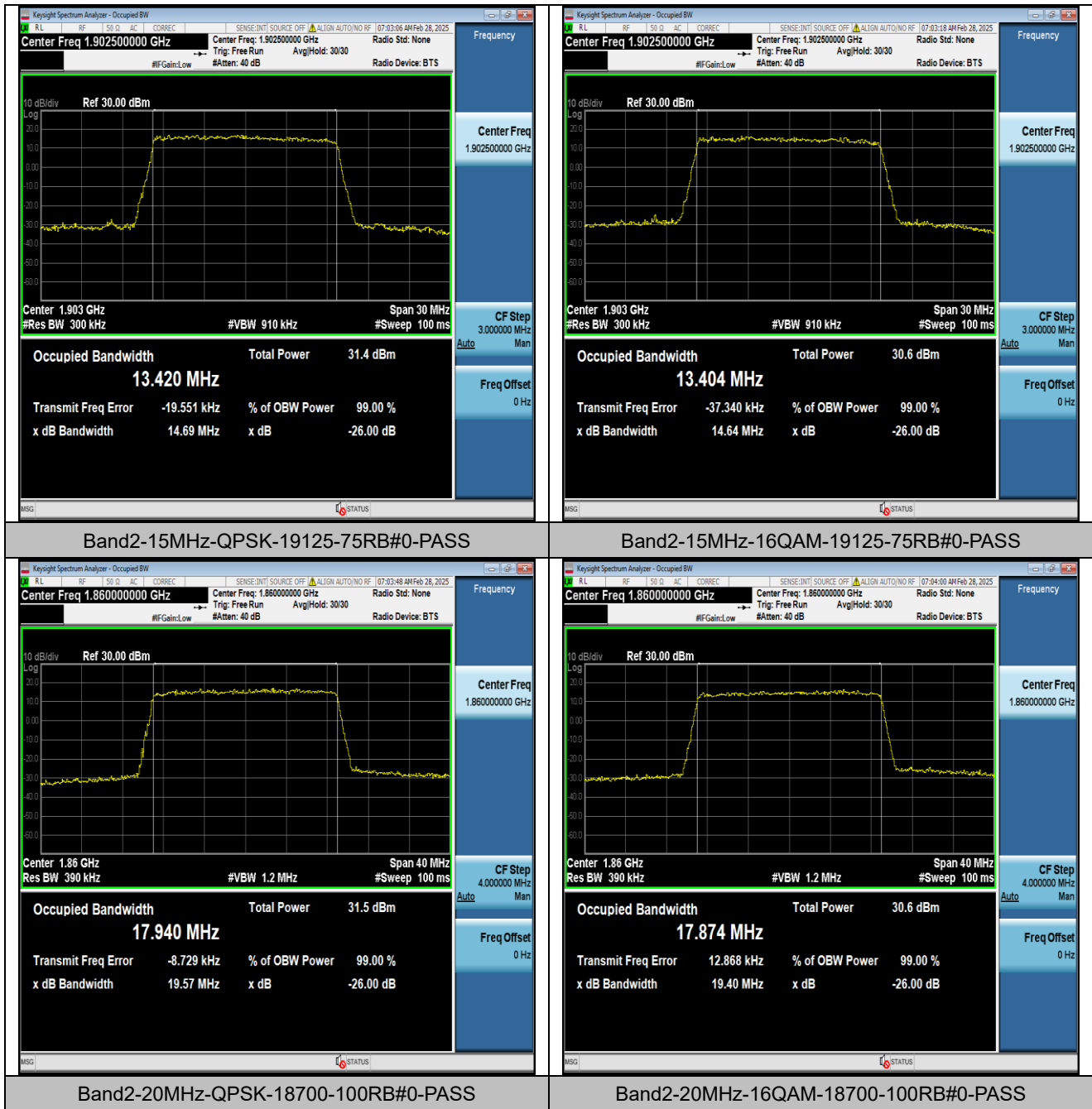


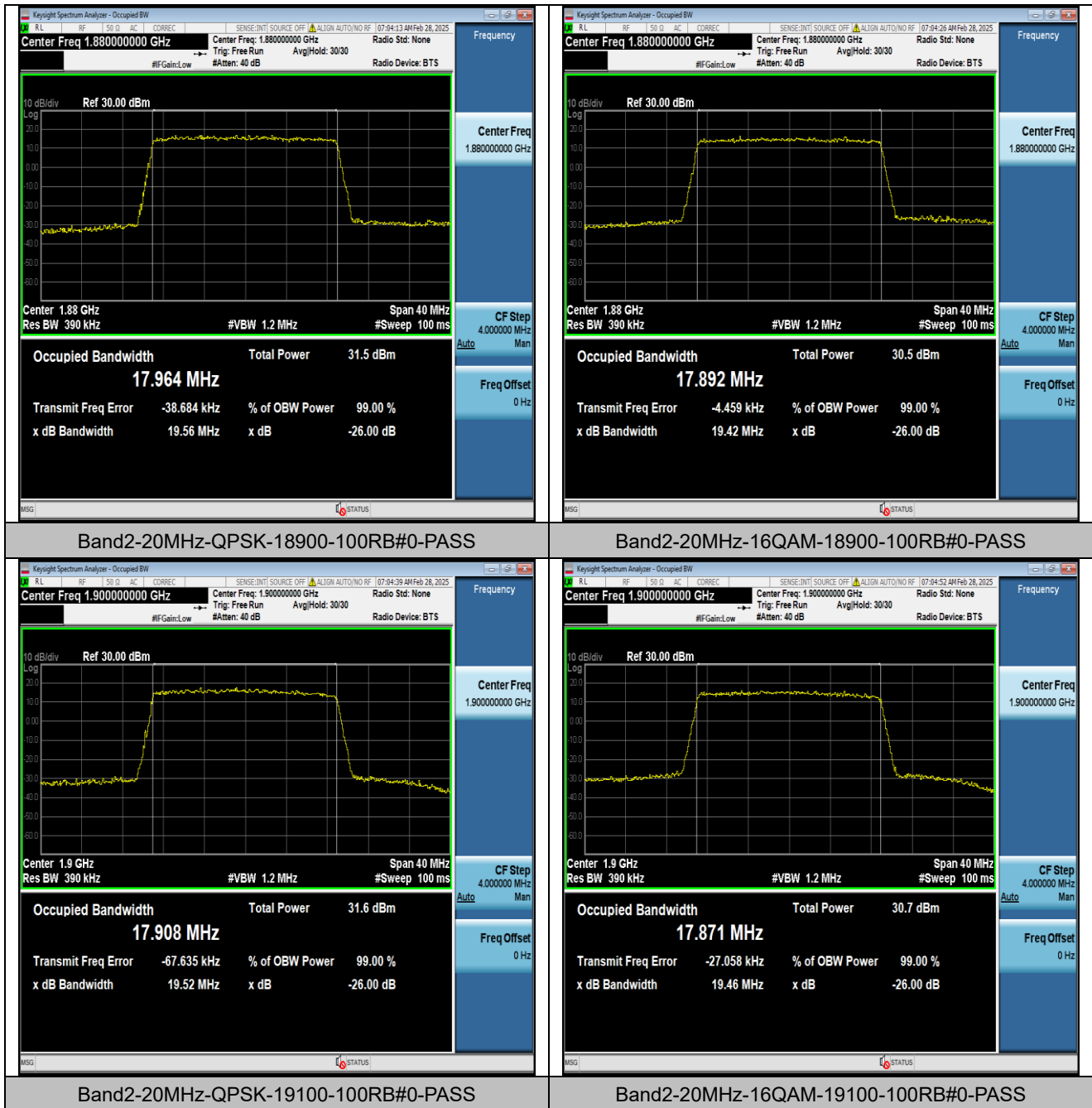






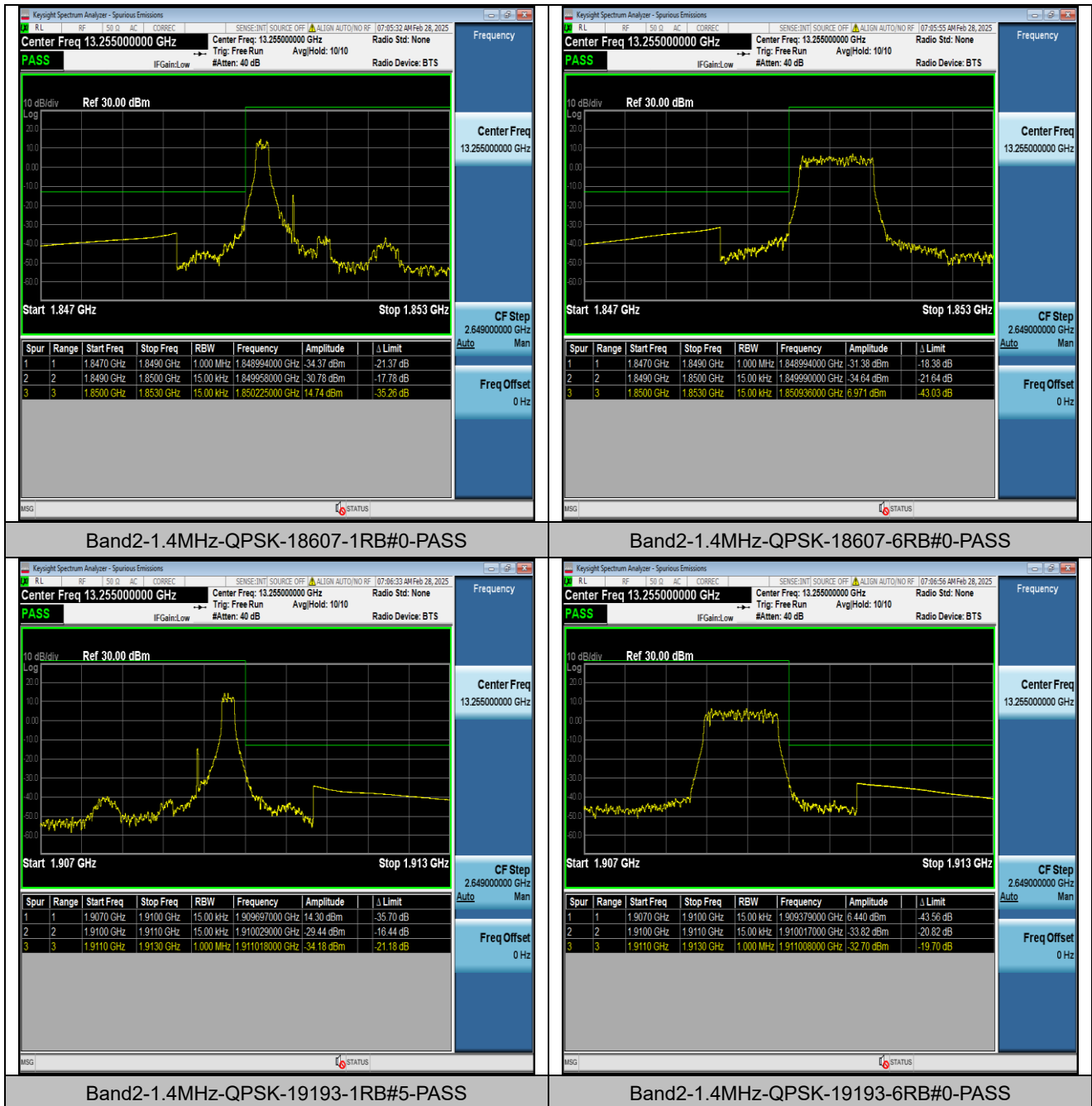


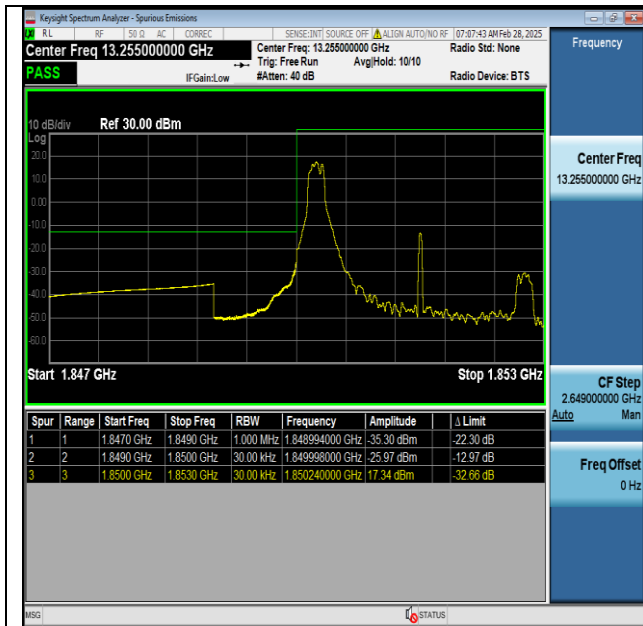




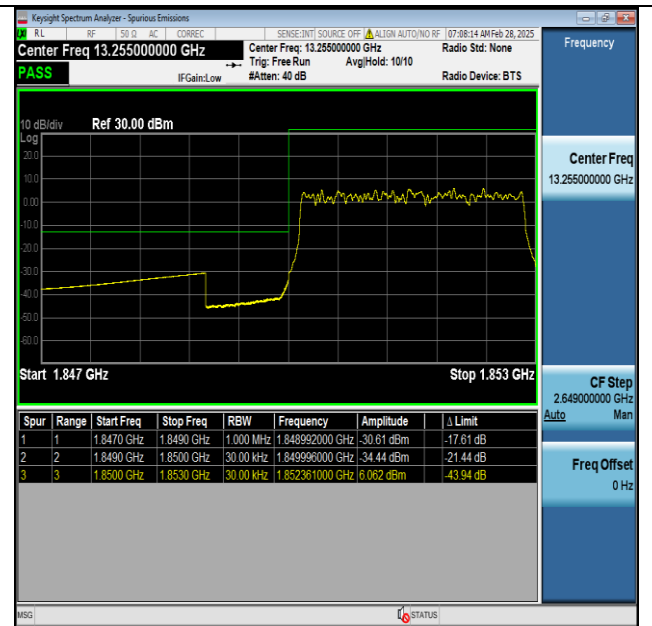
Band Edge

Test Graphs

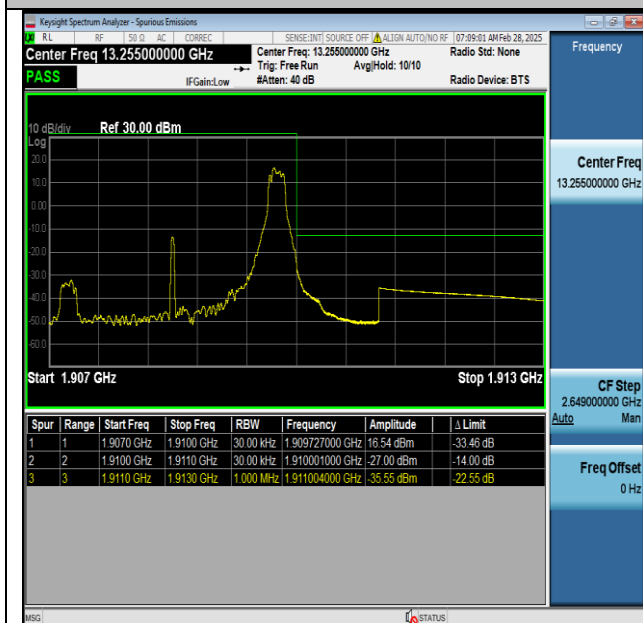




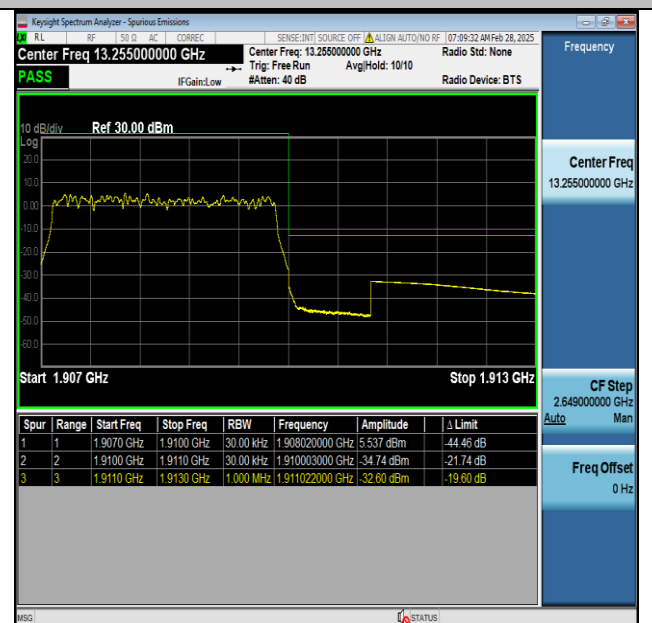
Band2-3MHz-QPSK-18615-1RB#0-PASS



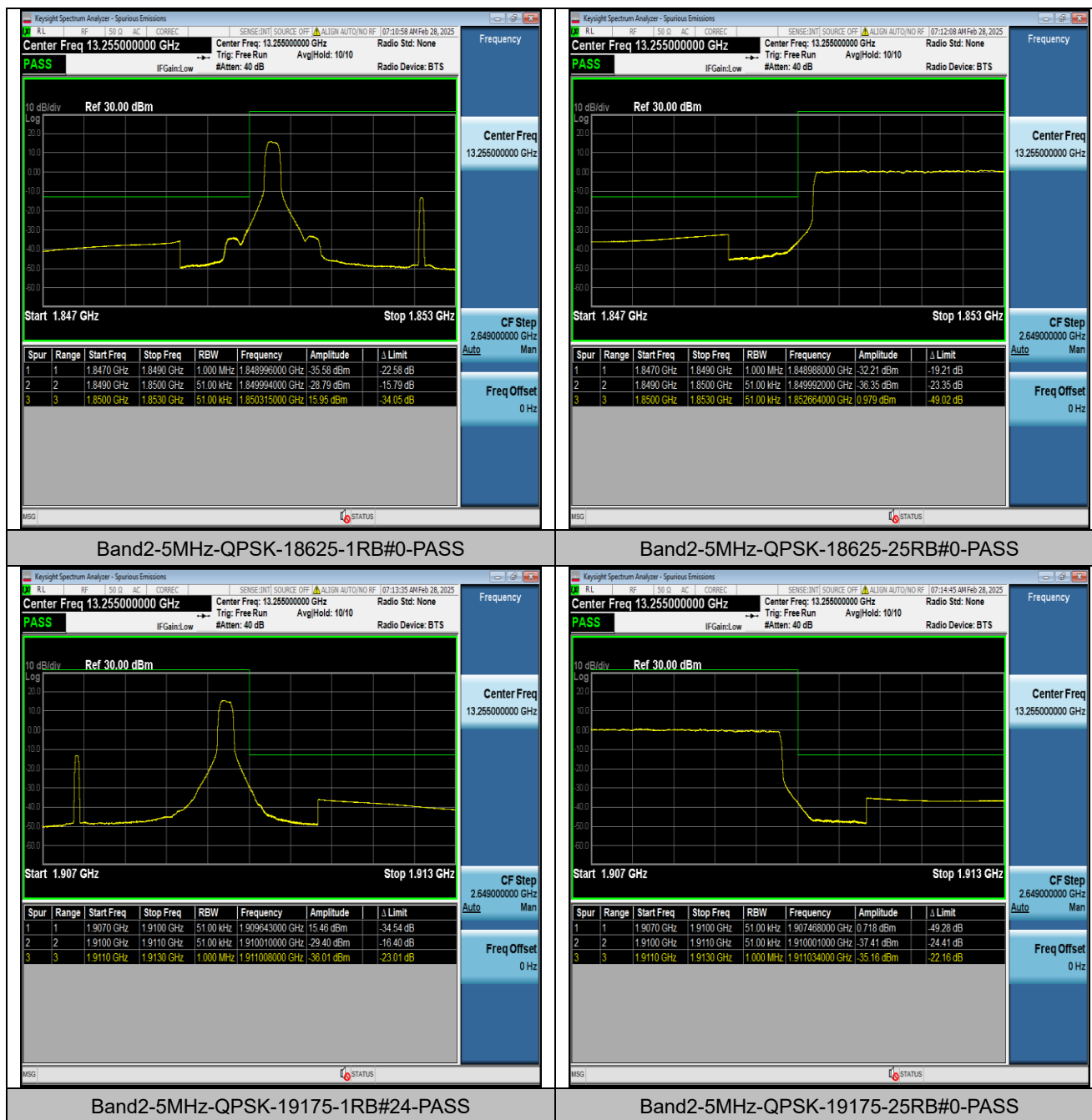
Band2-3MHz-QPSK-18615-15RB#0-PASS

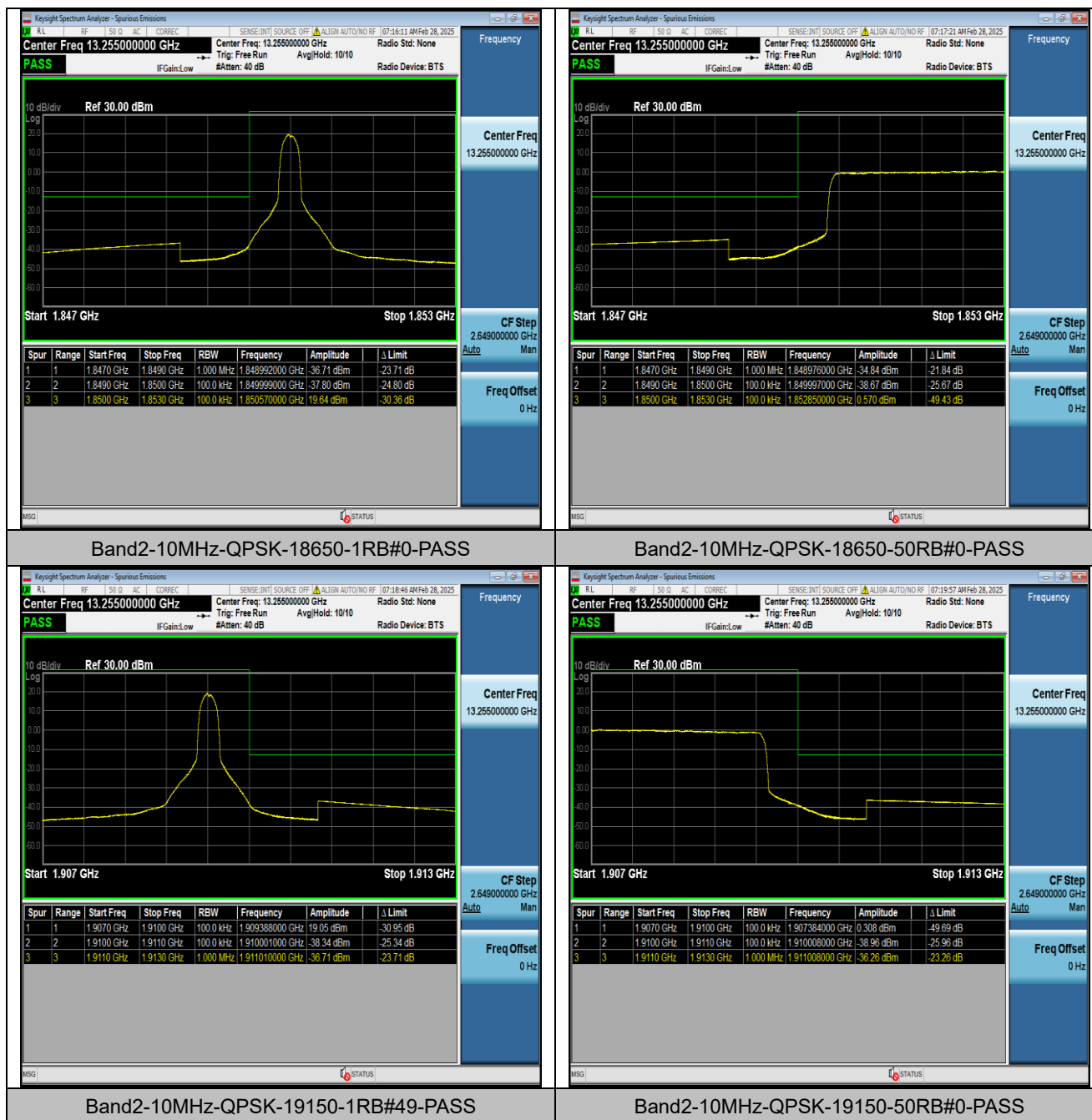


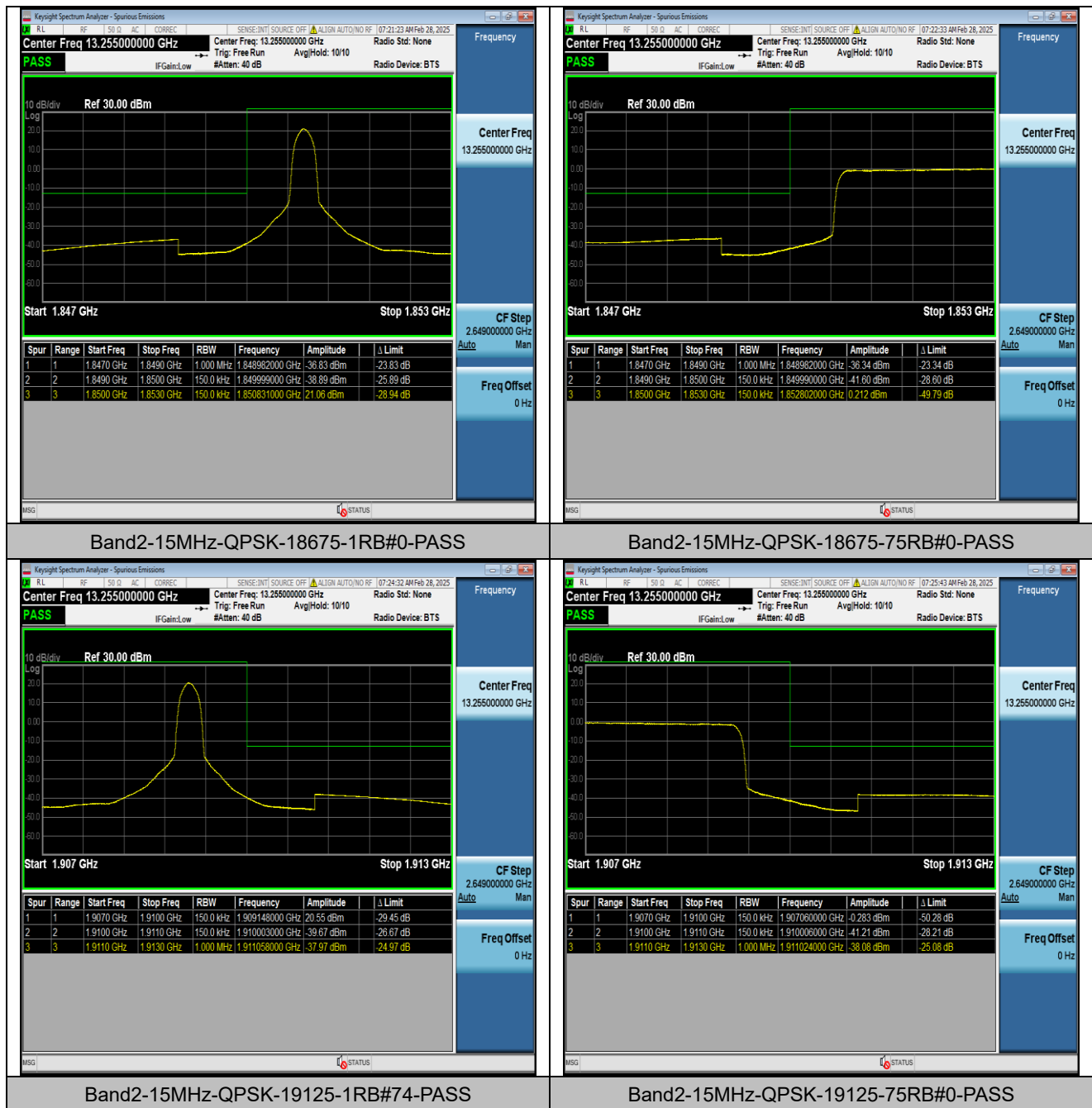
Band2-3MHz-QPSK-19185-1RB#14-PASS

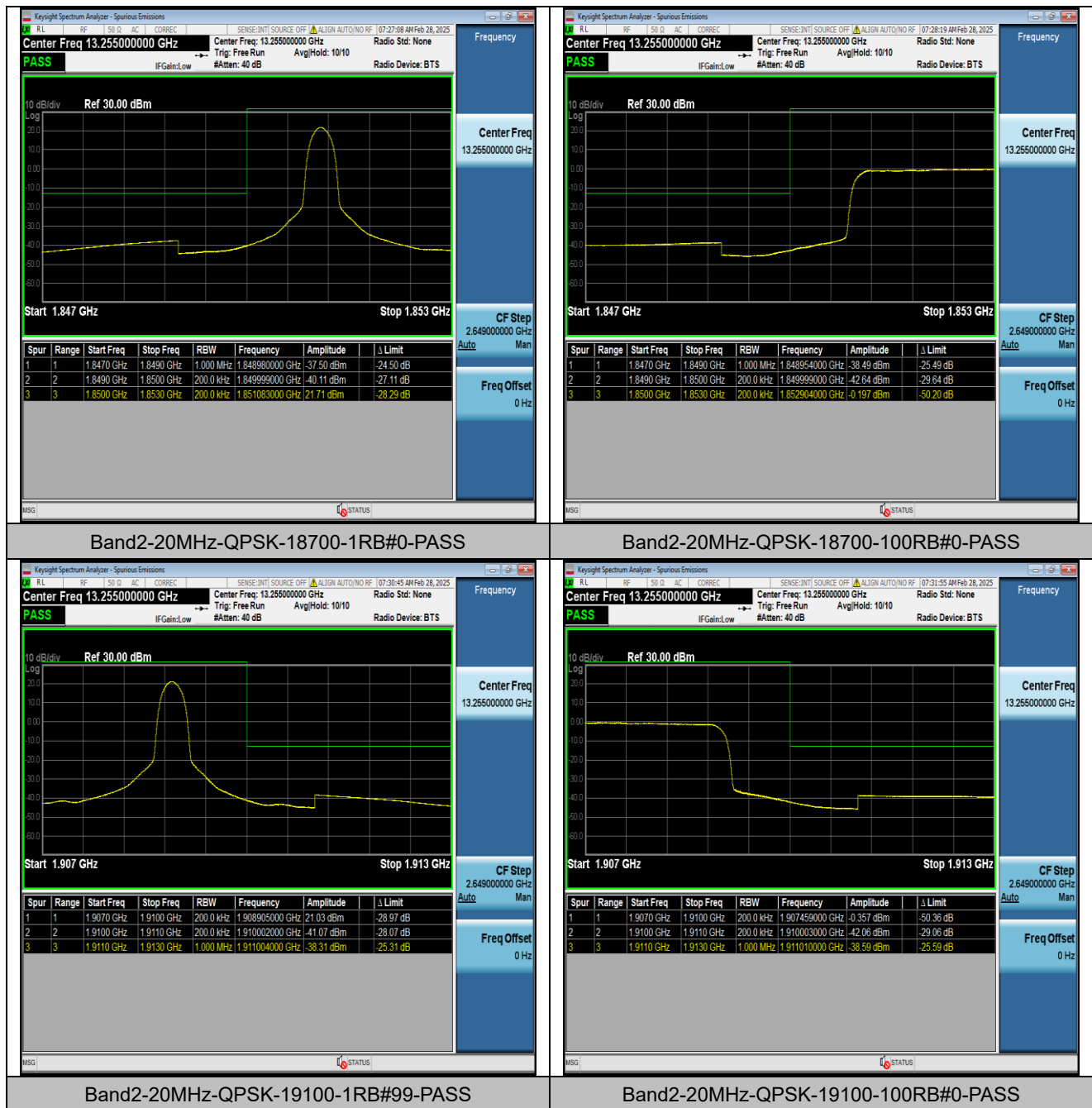


Band2-3MHz-QPSK-19185-15RB#0-PASS



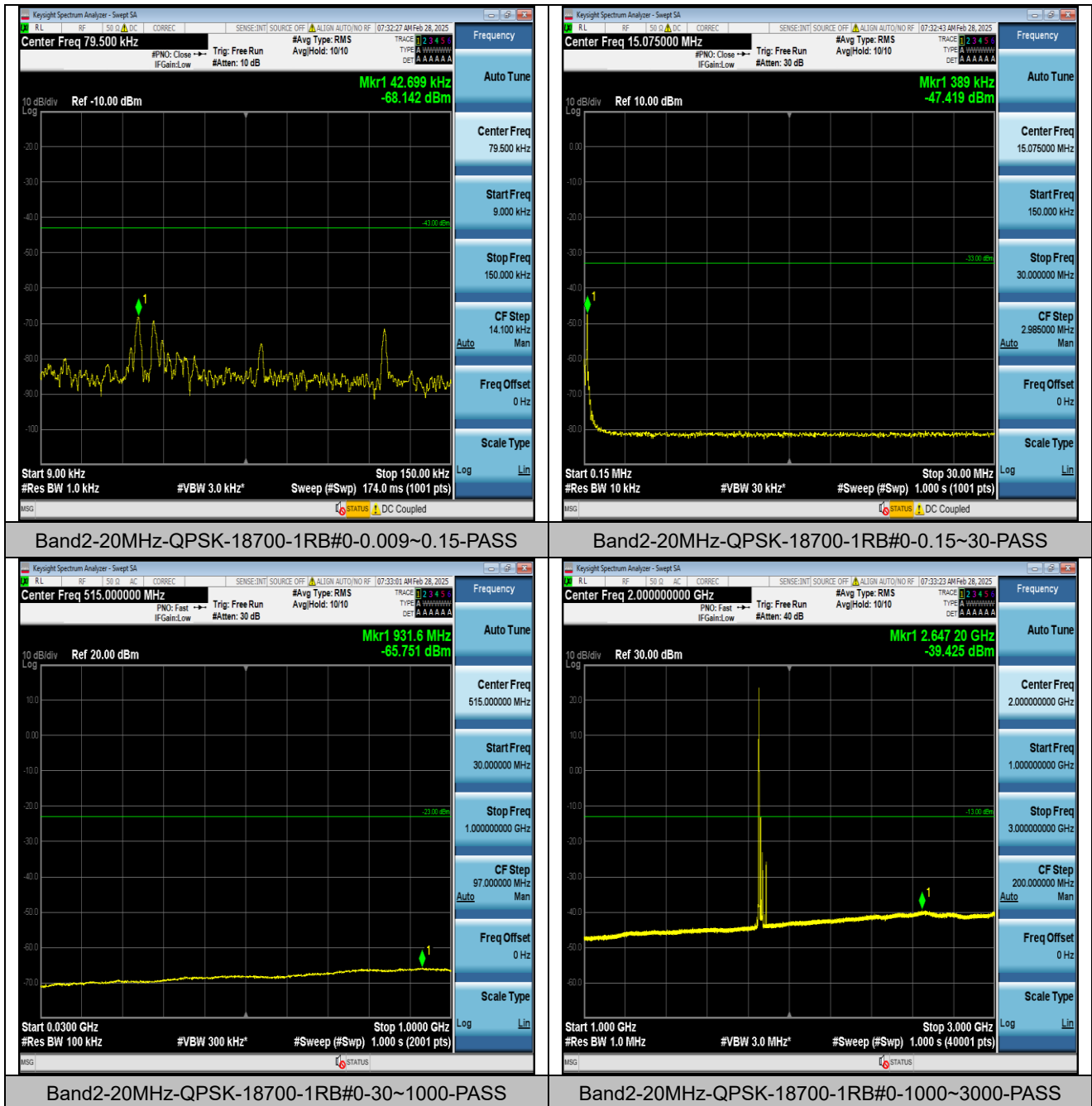


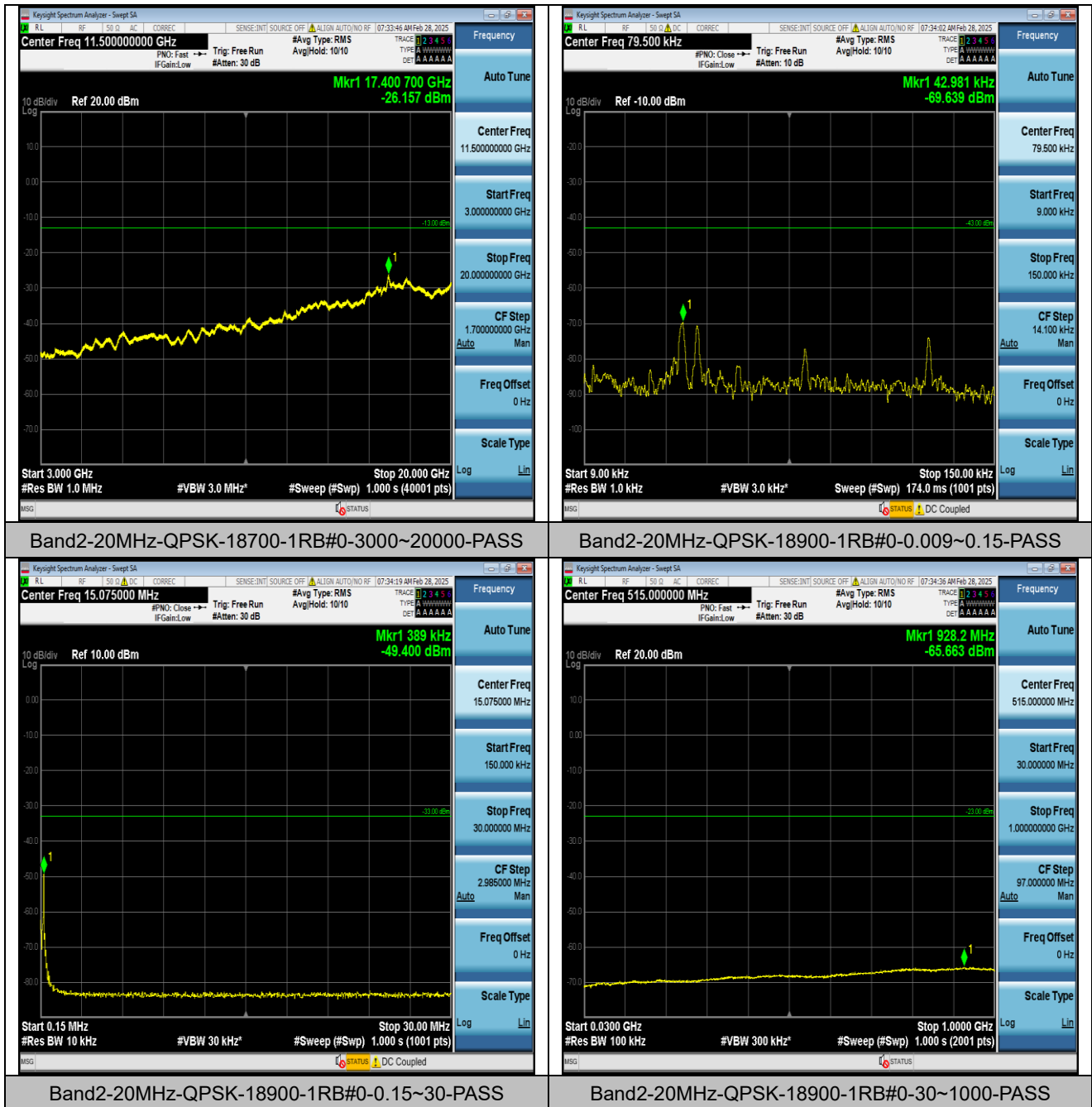


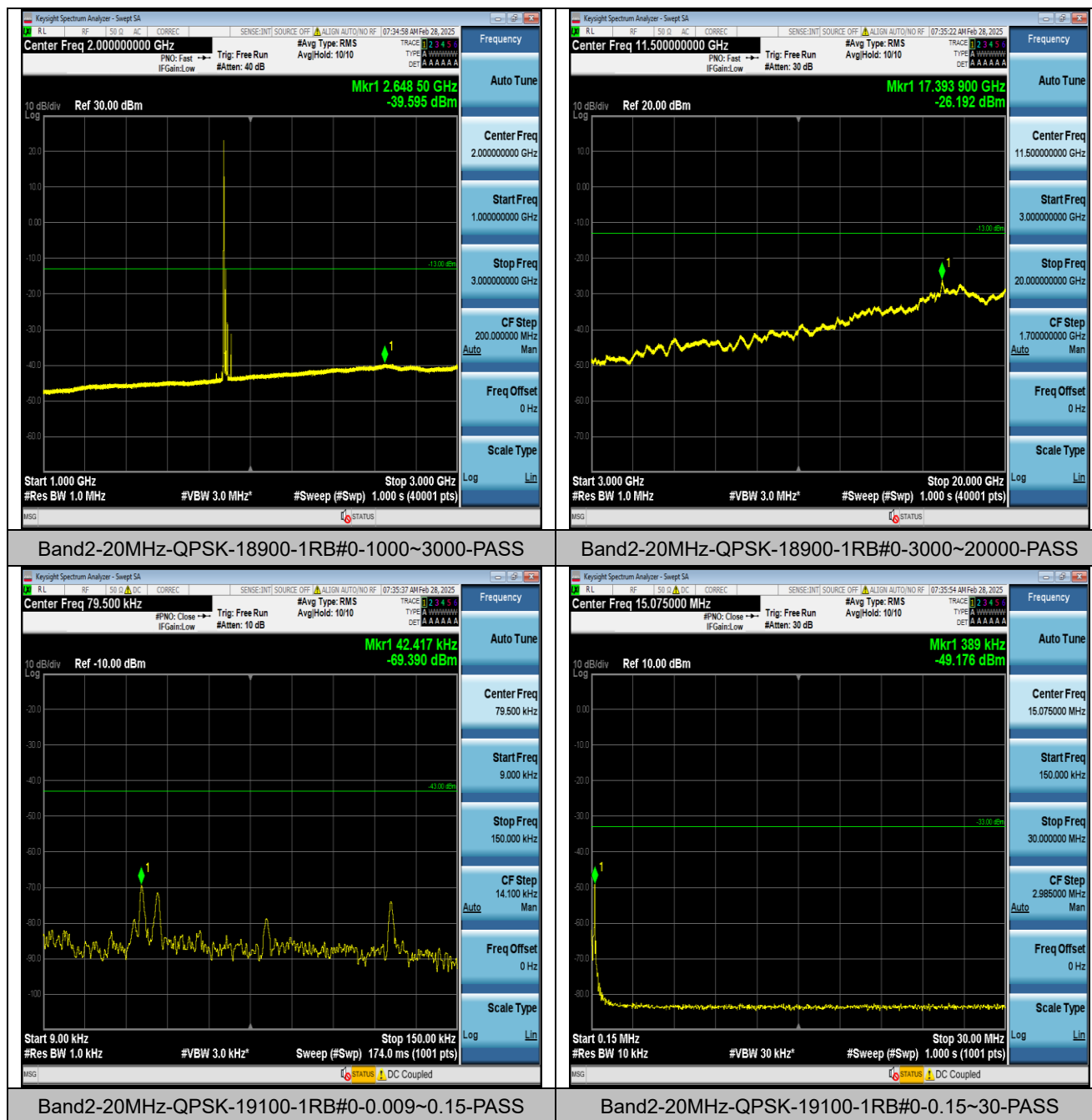


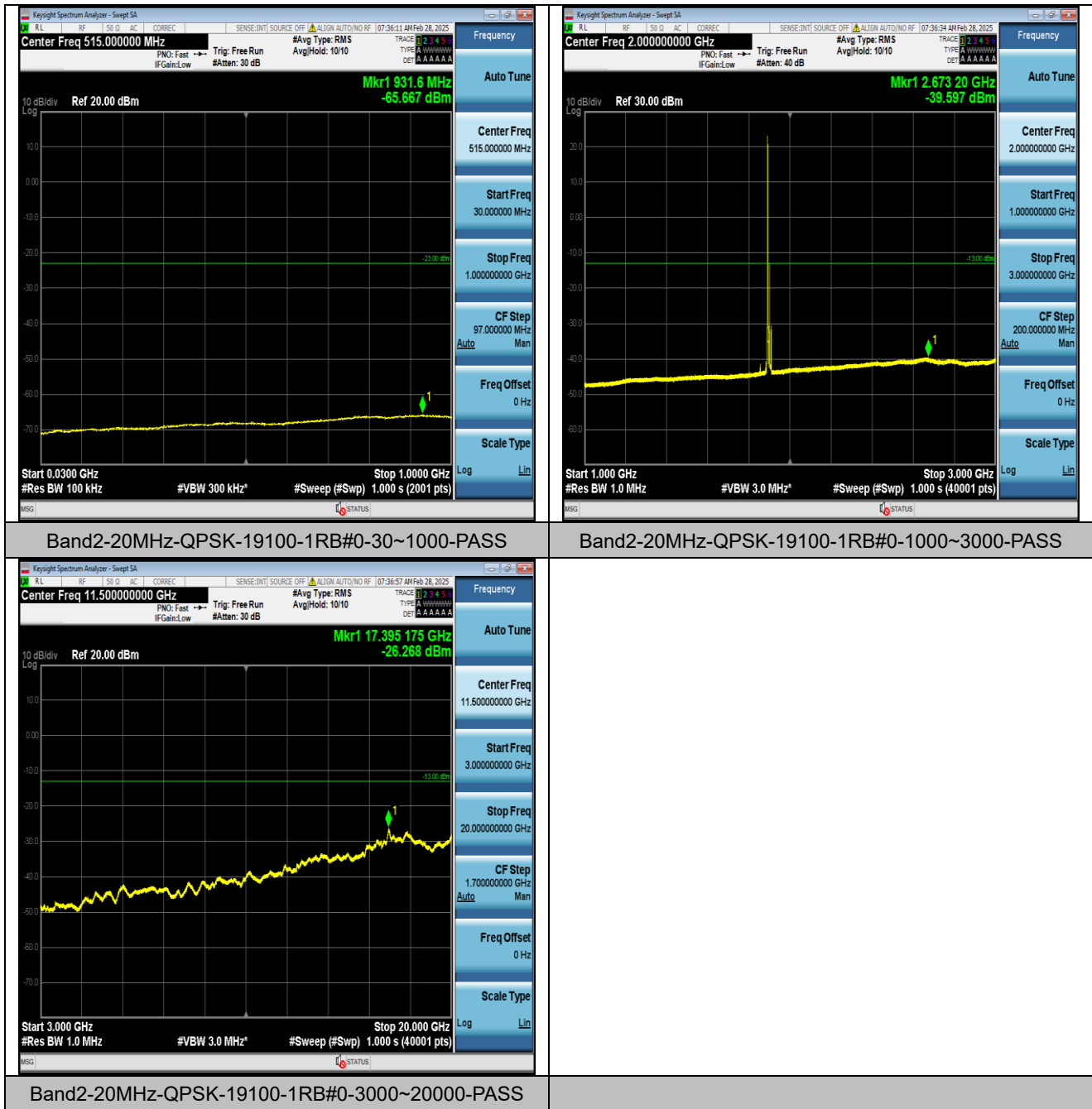
Conducted Spurious Emission

Test Graphs









Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-5.50	-0.002926	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-3.50	-0.001862	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-3.70	-0.001968	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-4.00	-0.002128	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-4.10	-0.002181	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-5.30	-0.002819	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-4.10	-0.002181	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-3.70	-0.001968	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-2.50	-0.001330	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-3.90	-0.002074	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-4.20	-0.002234	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-4.90	-0.002606	PASS

~The End~