

Appendix-C 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	23.40	21.54	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.36	21.5	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.38	21.52	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.41	20.55	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.94	21.08	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.83	20.97	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.87	21.01	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.30	19.44	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.51	21.65	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.49	21.63	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.52	21.66	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.52	20.66	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.16	20.3	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.22	20.36	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.12	20.26	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.54	19.68	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.63	21.77	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.60	21.74	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.62	21.76	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.44	20.58	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	23.03	21.17	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	23.07	21.21	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	23.11	21.25	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.43	19.57	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.41	21.55	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.41	21.55	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.41	21.55	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.42	20.56	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.85	20.99	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.98	21.12	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.96	21.1	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.58	19.72	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.56	21.7	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.62	21.76	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.59	21.73	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.58	20.72	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.66	20.8	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.73	20.87	33	PASS

Band2	3MHz	16QAM	18900	1RB#14	22.88	21.02	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.75	19.89	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.60	21.74	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.67	21.81	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.63	21.77	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.46	20.6	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	23.14	21.28	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.62	20.76	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.52	20.66	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.82	19.96	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.44	21.58	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.46	21.6	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.49	21.63	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.40	20.54	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.46	20.6	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.42	20.56	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	23.03	21.17	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.43	19.57	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.62	21.76	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.76	21.9	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.78	21.92	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.42	20.56	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.66	20.8	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.57	20.71	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.65	20.79	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.89	20.03	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.70	21.84	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.63	21.77	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.65	21.79	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.58	20.72	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.58	20.72	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.69	20.83	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.66	20.8	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.84	19.98	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.38	21.52	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.52	21.66	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.54	21.68	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.38	20.52	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.86	21	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.98	21.12	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	23.01	21.15	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.51	19.65	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.56	21.7	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.64	21.78	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.73	21.87	33	PASS

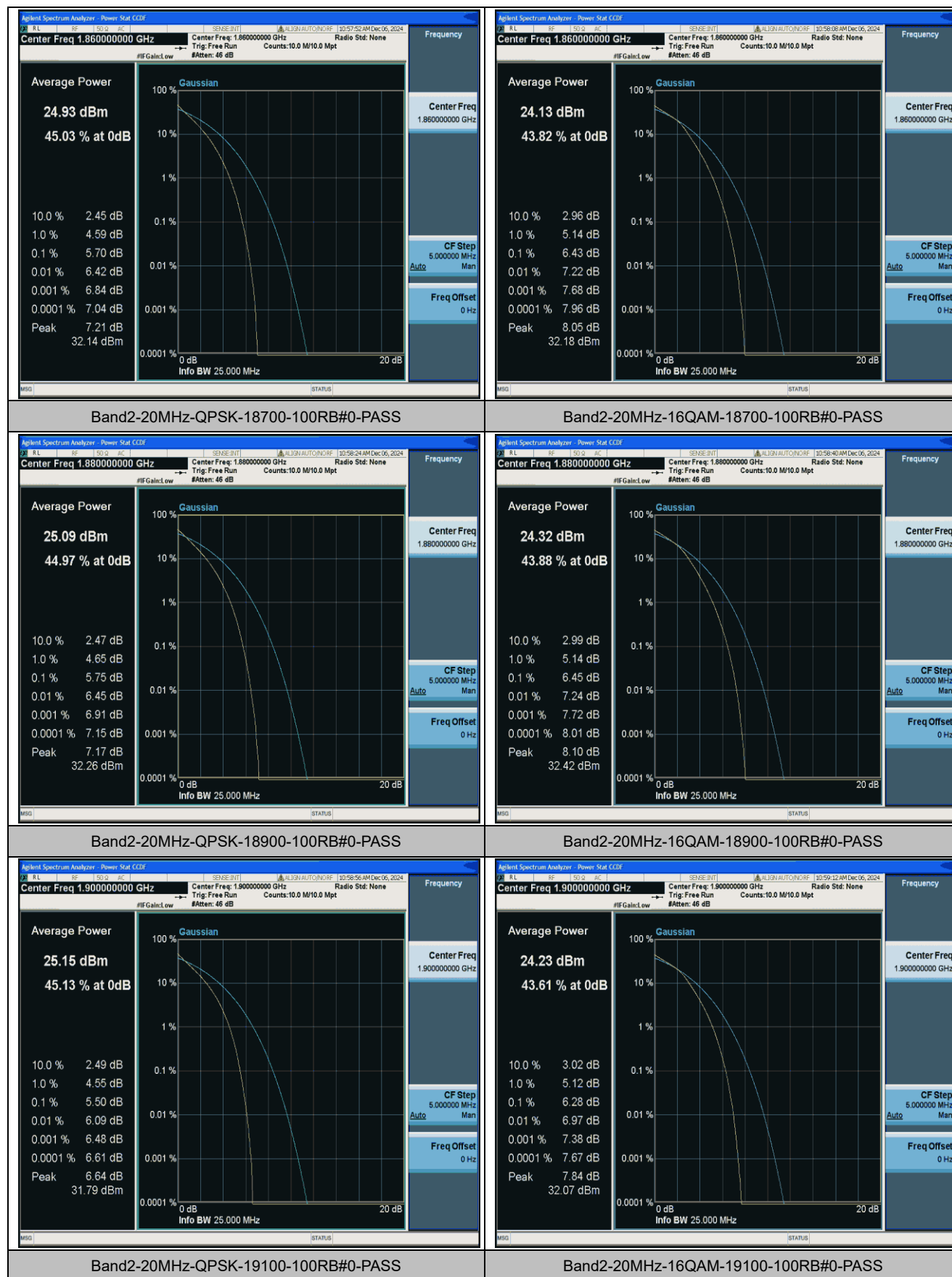
Band2	10MHz	QPSK	18900	50RB#0	22.58	20.72	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.50	20.64	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.61	20.75	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.65	20.79	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.70	19.84	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.60	21.74	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.69	21.83	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.65	21.79	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.57	20.71	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	23.16	21.3	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	23.12	21.26	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	23.04	21.18	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.77	19.91	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.48	21.62	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.43	21.57	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.59	21.73	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.41	20.55	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	23.00	21.14	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	23.03	21.17	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	23.16	21.3	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.66	19.8	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.42	21.56	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.66	21.8	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.67	21.81	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.46	20.6	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.54	20.68	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.67	20.81	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.80	20.94	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.65	19.79	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.63	21.77	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.65	21.79	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.73	21.87	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.51	20.65	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	23.25	21.39	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	23.19	21.33	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	23.10	21.24	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.76	19.9	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.45	21.59	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.36	21.5	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.43	21.57	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.43	20.57	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.38	20.52	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.98	21.12	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.94	21.08	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	21.58	19.72	33	PASS

Band2	20MHz	QPSK	18900	1RB#0	23.42	21.56	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.52	21.66	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.68	21.82	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.50	20.64	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.75	20.89	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.76	20.9	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.87	21.01	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.68	19.82	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.76	21.9	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.67	21.81	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.67	21.81	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.51	20.65	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	23.27	21.41	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	23.06	21.2	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	23.15	21.29	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.76	19.9	33	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	5.70	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.43	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.75	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.45	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.50	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.28	13	PASS

Test Graphs

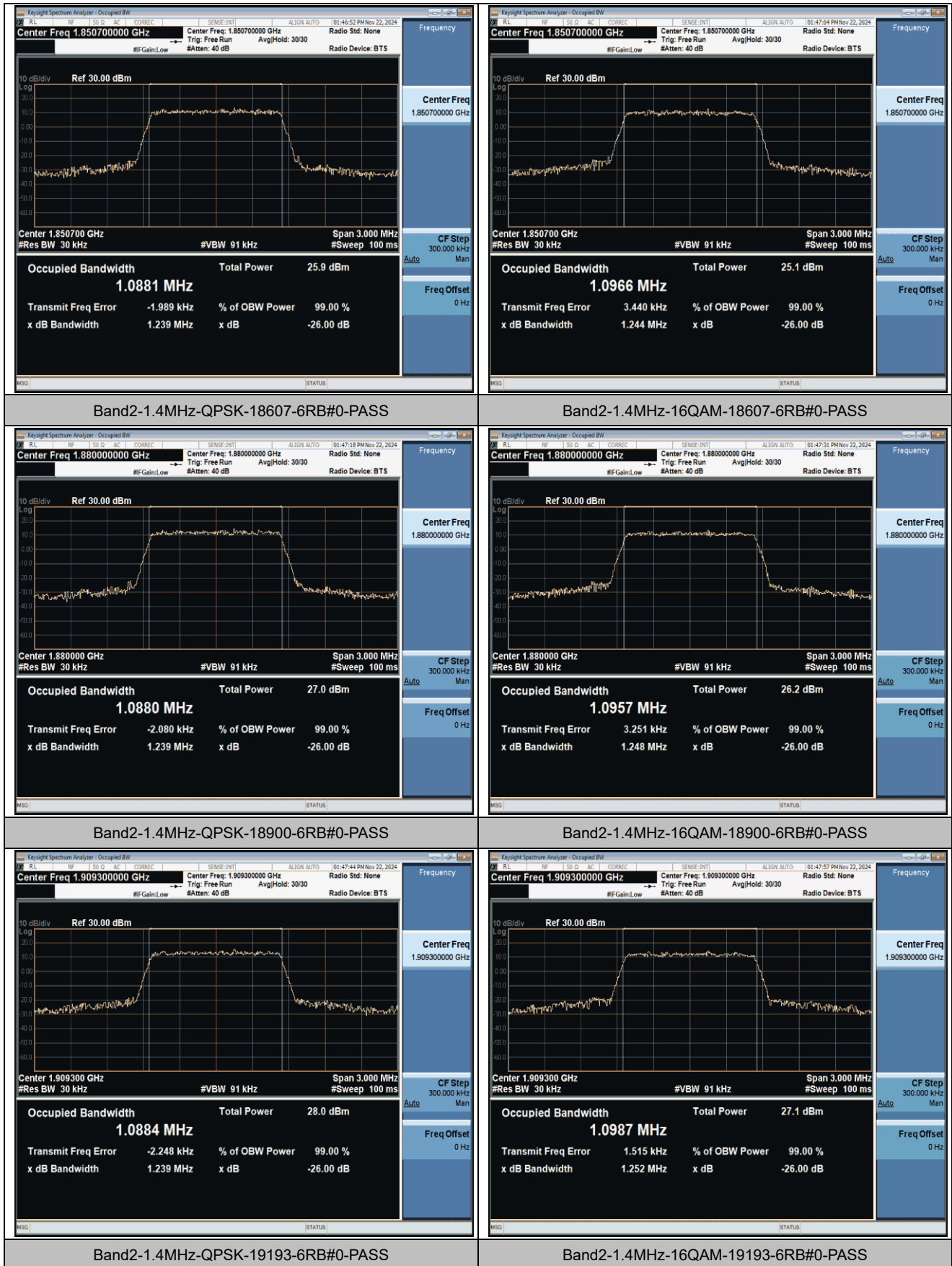


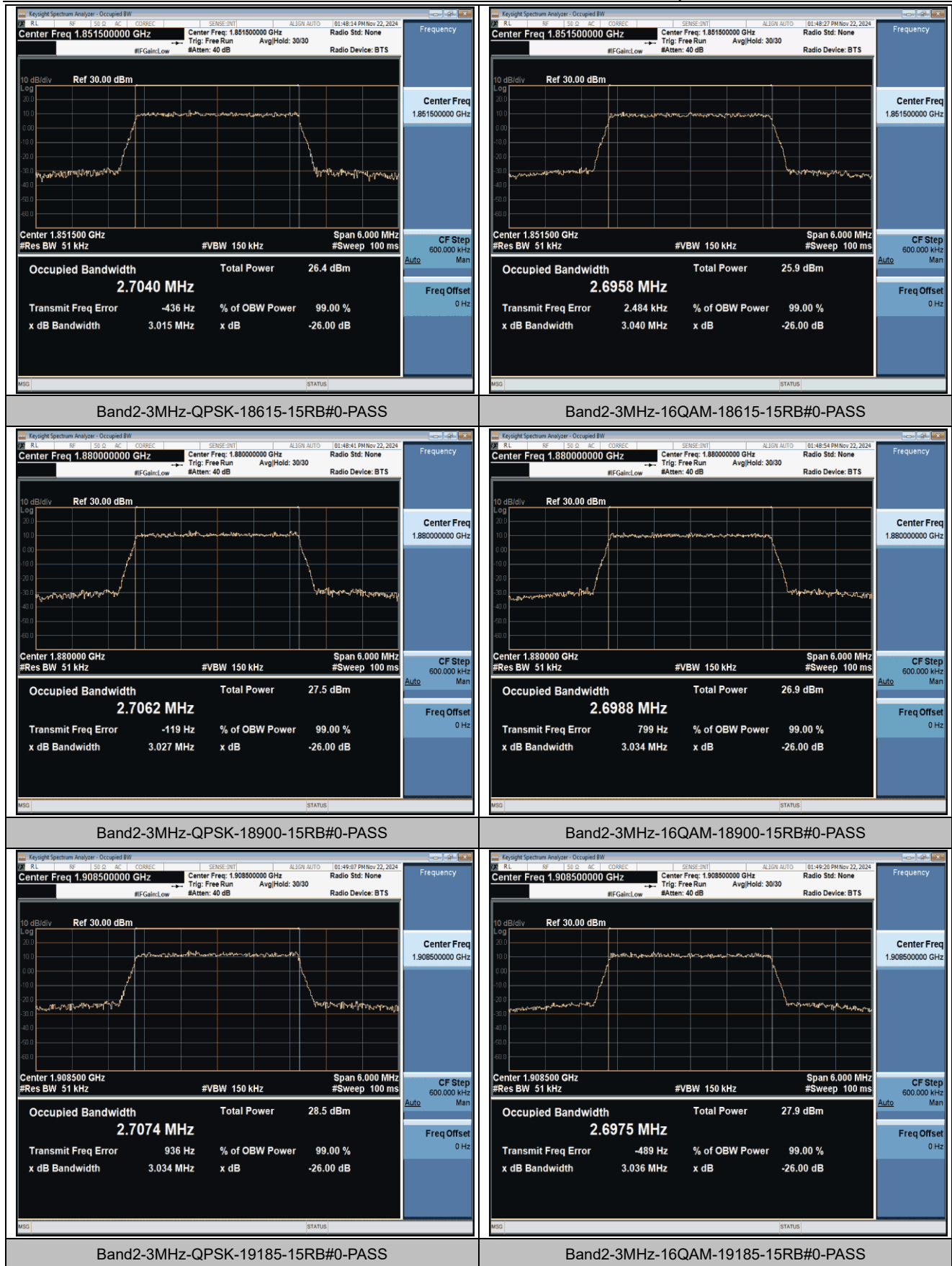
26dB Bandwidth and Occupied Bandwidth

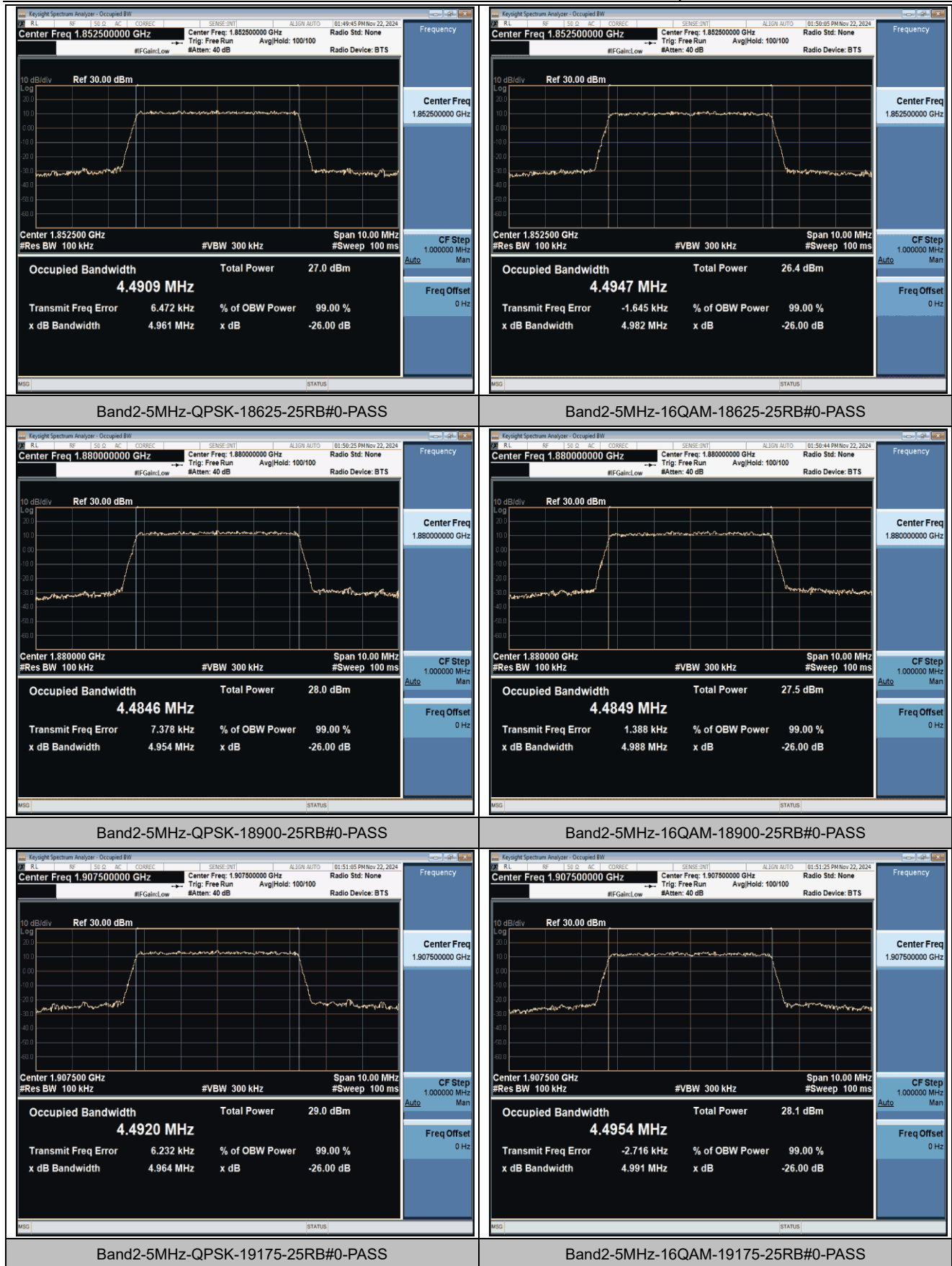
Test Result

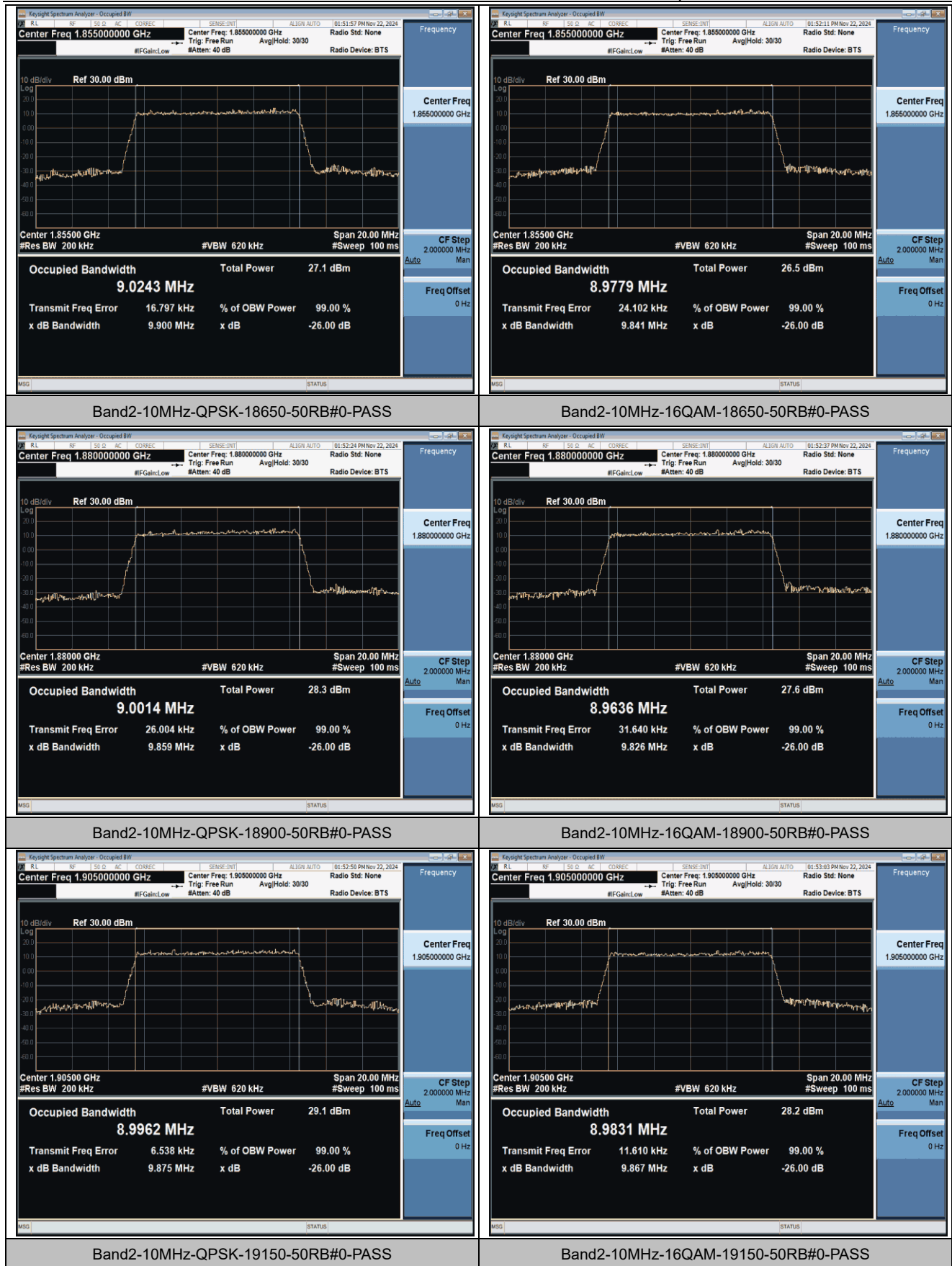
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0881	1.239	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0966	1.244	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0880	1.239	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0957	1.248	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0884	1.239	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0987	1.252	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.7040	3.015	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6958	3.040	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.7062	3.027	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6988	3.034	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.7074	3.034	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6975	3.036	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4909	4.961	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4947	4.982	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4846	4.954	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4849	4.988	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4920	4.964	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4954	4.991	PASS
Band2	10MHz	QPSK	18650	50RB#0	9.0243	9.900	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9779	9.841	PASS
Band2	10MHz	QPSK	18900	50RB#0	9.0014	9.859	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9636	9.826	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9962	9.875	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9831	9.867	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.481	14.89	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.492	15.03	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.491	14.92	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.489	14.97	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.503	14.90	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.510	15.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	18.052	19.82	PASS
Band2	20MHz	16QAM	18700	100RB#0	18.002	19.81	PASS
Band2	20MHz	QPSK	18900	100RB#0	18.098	19.90	PASS
Band2	20MHz	16QAM	18900	100RB#0	18.014	19.85	PASS
Band2	20MHz	QPSK	19100	100RB#0	18.055	19.87	PASS
Band2	20MHz	16QAM	19100	100RB#0	18.025	19.92	PASS

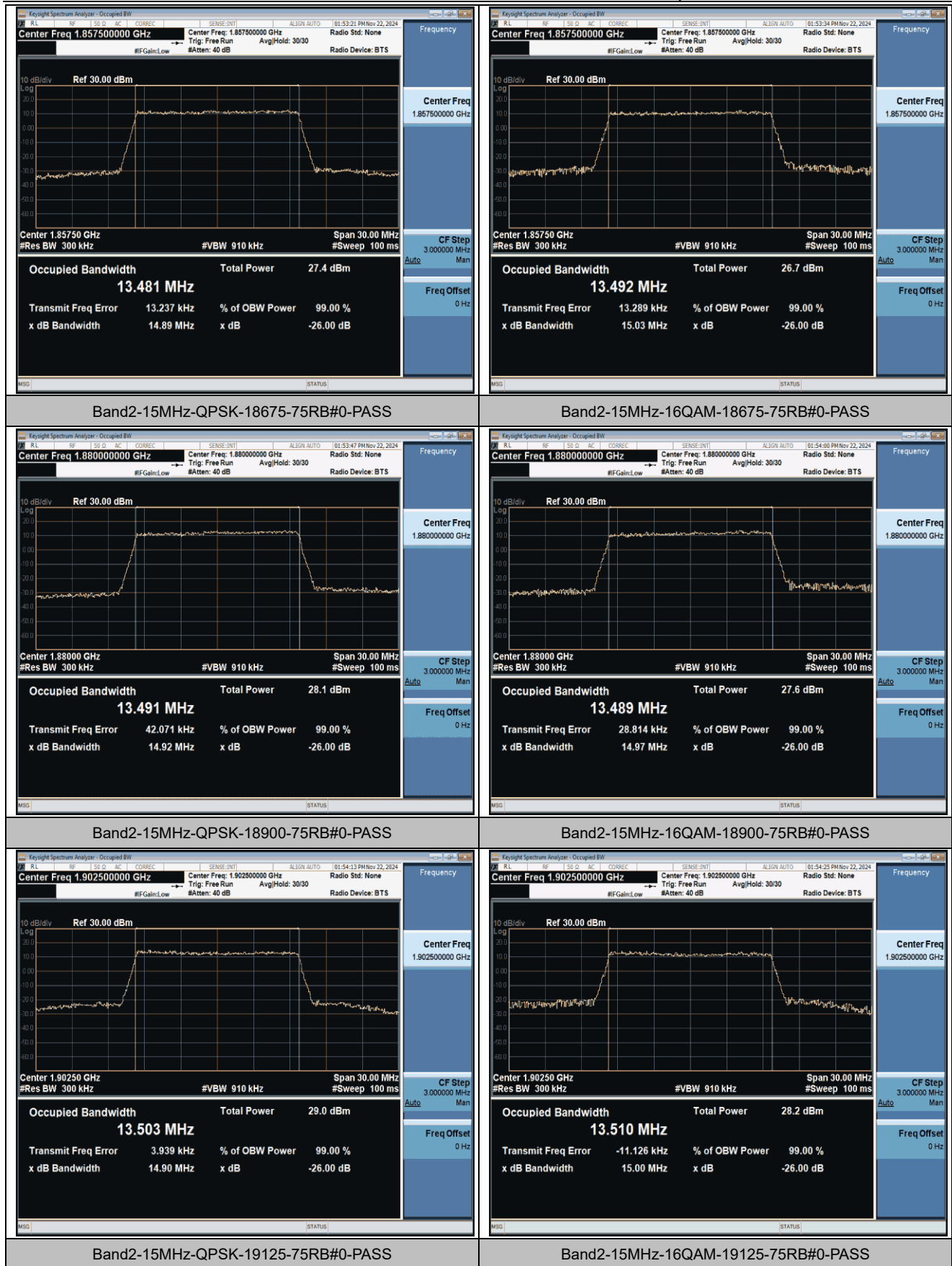
Test Graphs

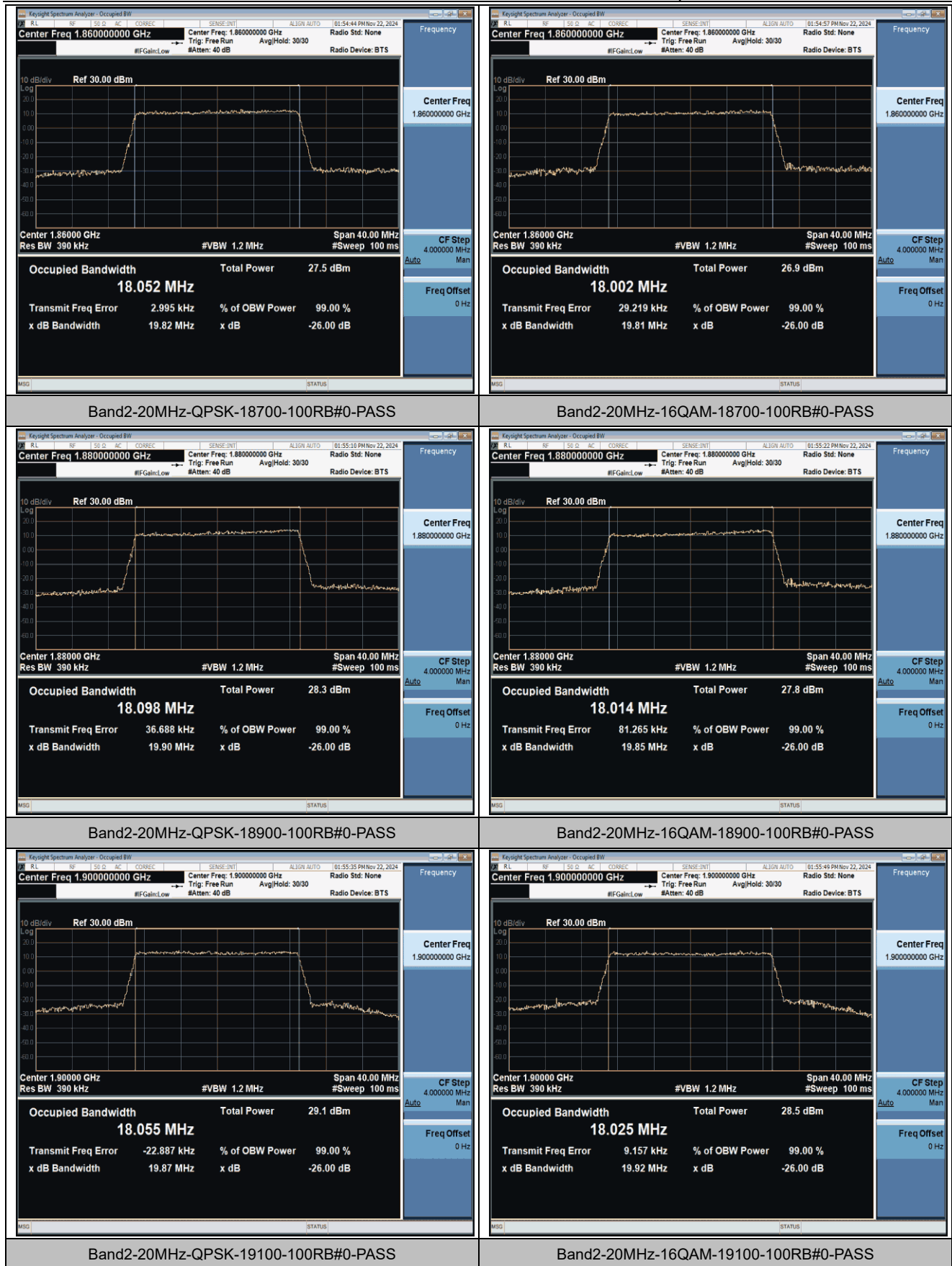






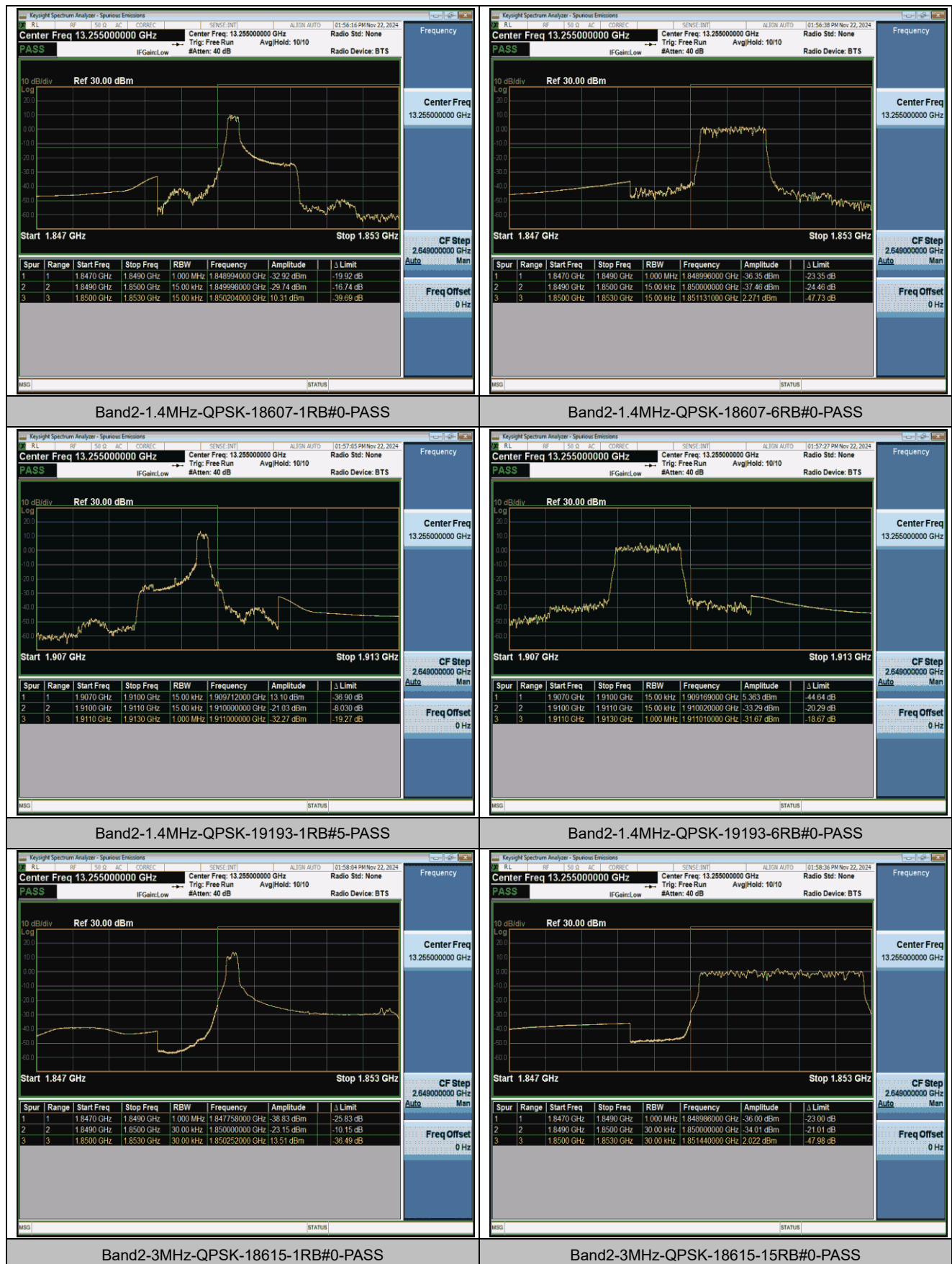


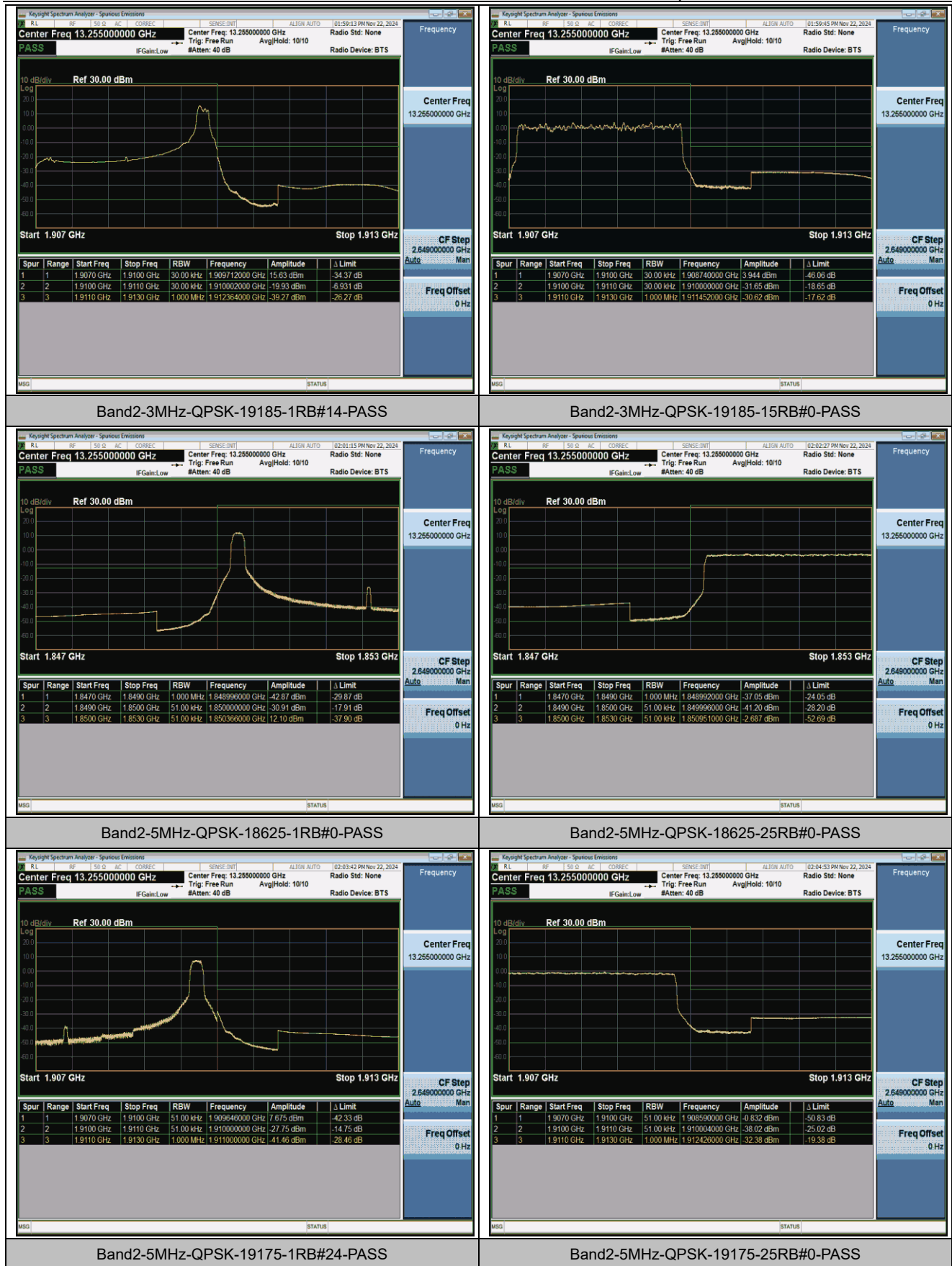


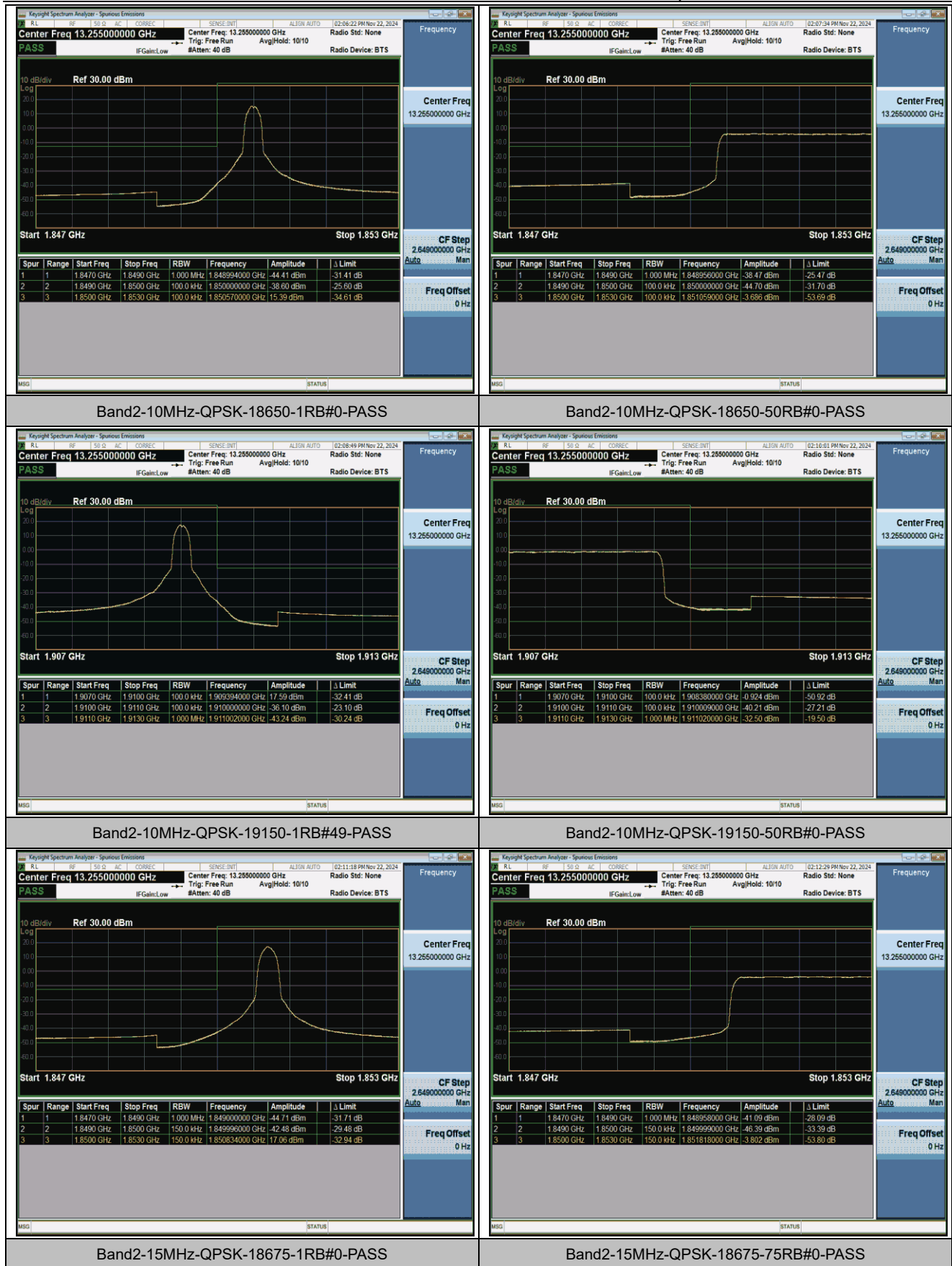


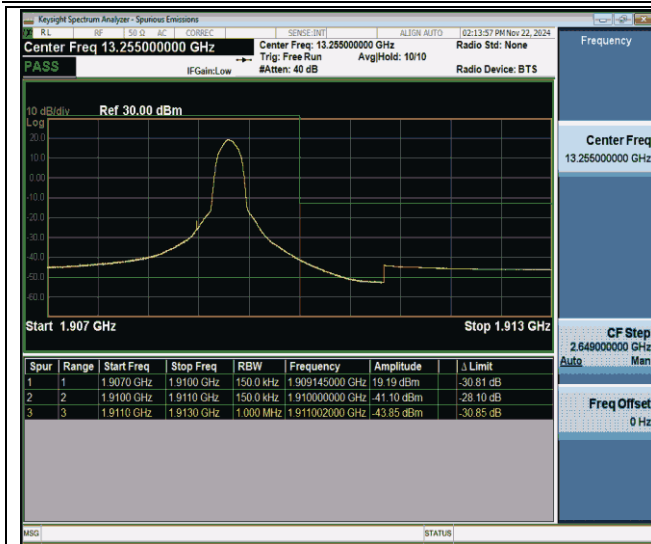
Band Edge

Test Graphs





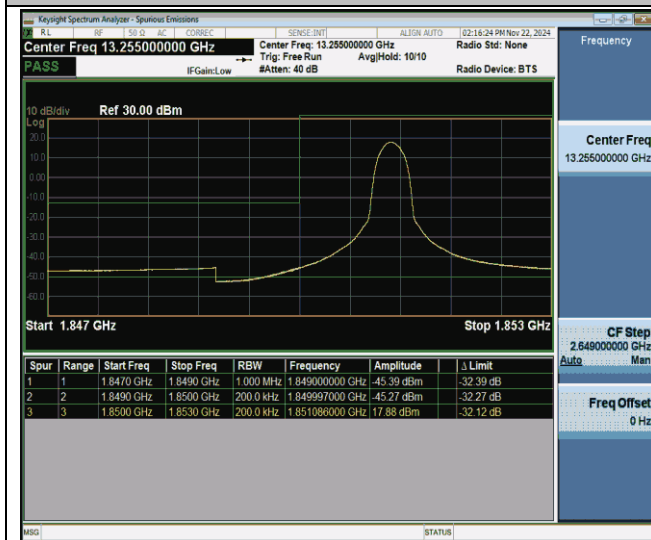




Band2-15MHz-QPSK-19125-1RB#74-PASS



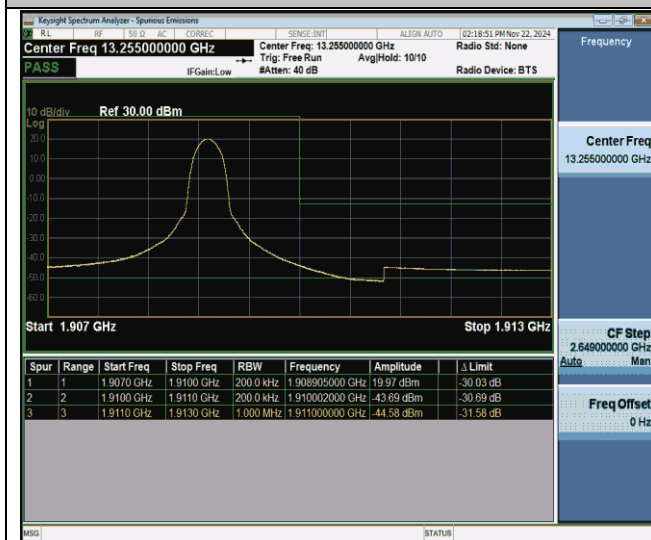
Band2-15MHz-QPSK-19125-75RB#0-PASS



Band2-20MHz-QPSK-18700-1RB#0-PASS



Band2-20MHz-QPSK-18700-100RB#0-PASS



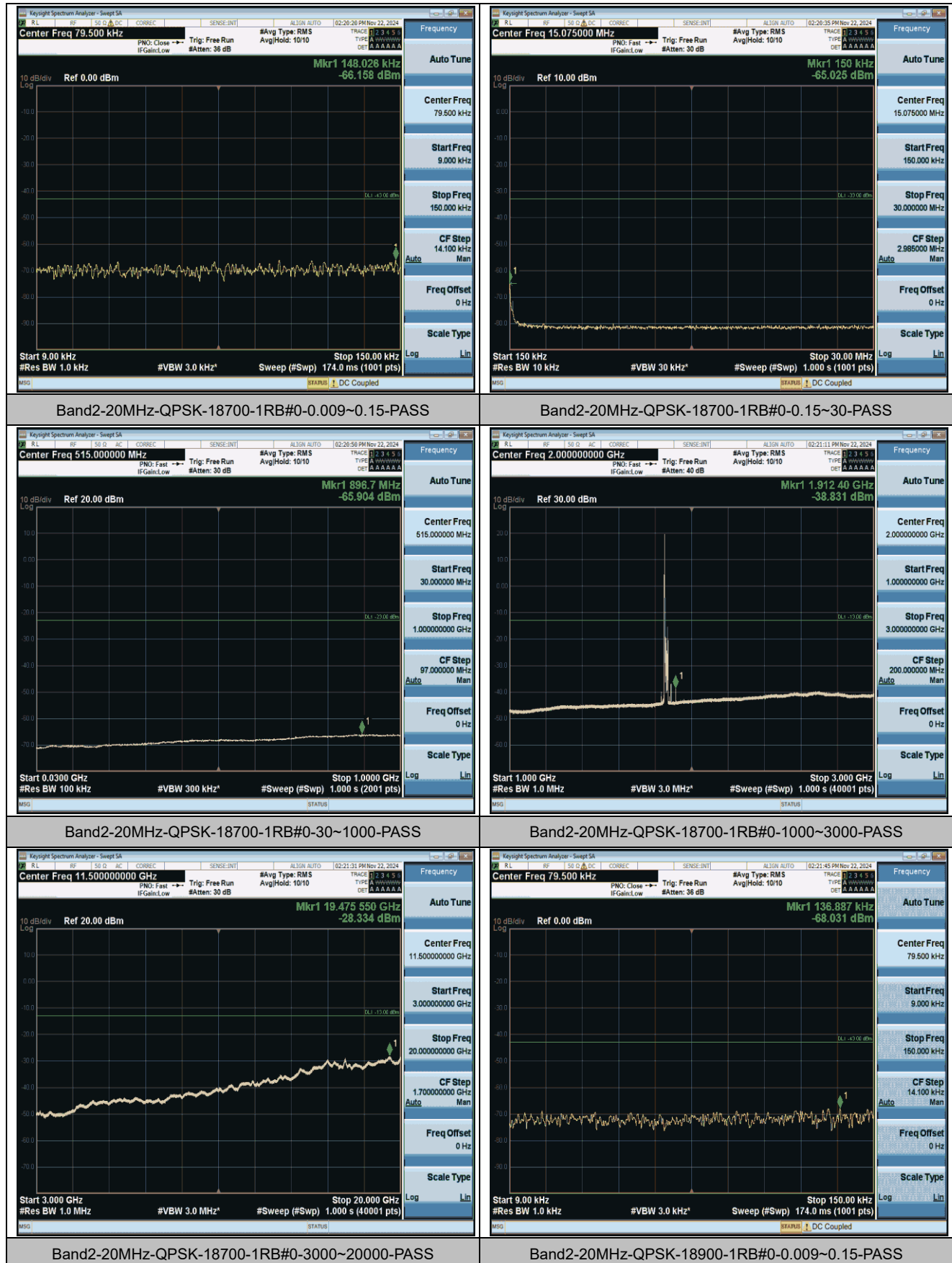
Band2-20MHz-QPSK-19100-1RB#99-PASS

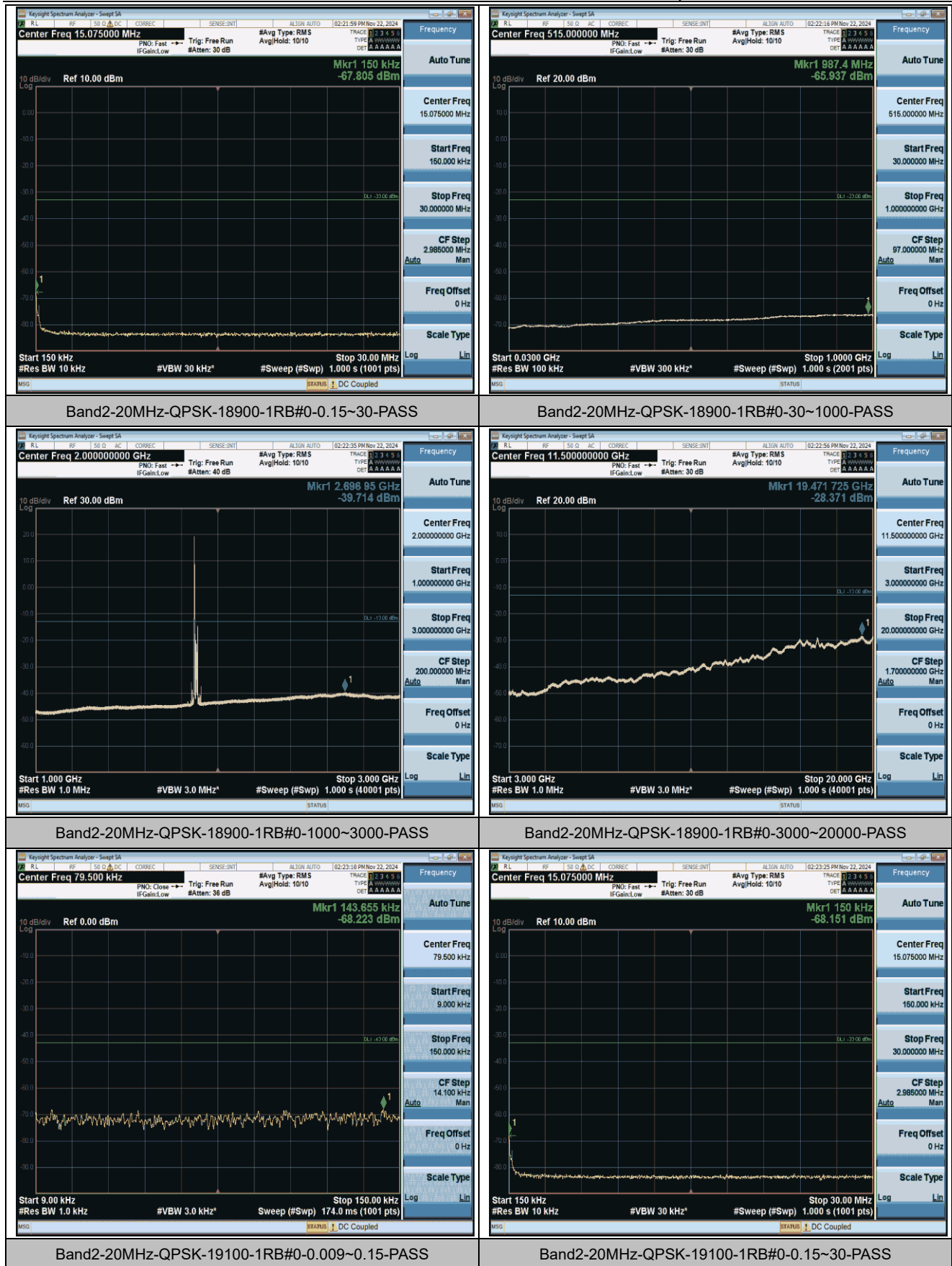


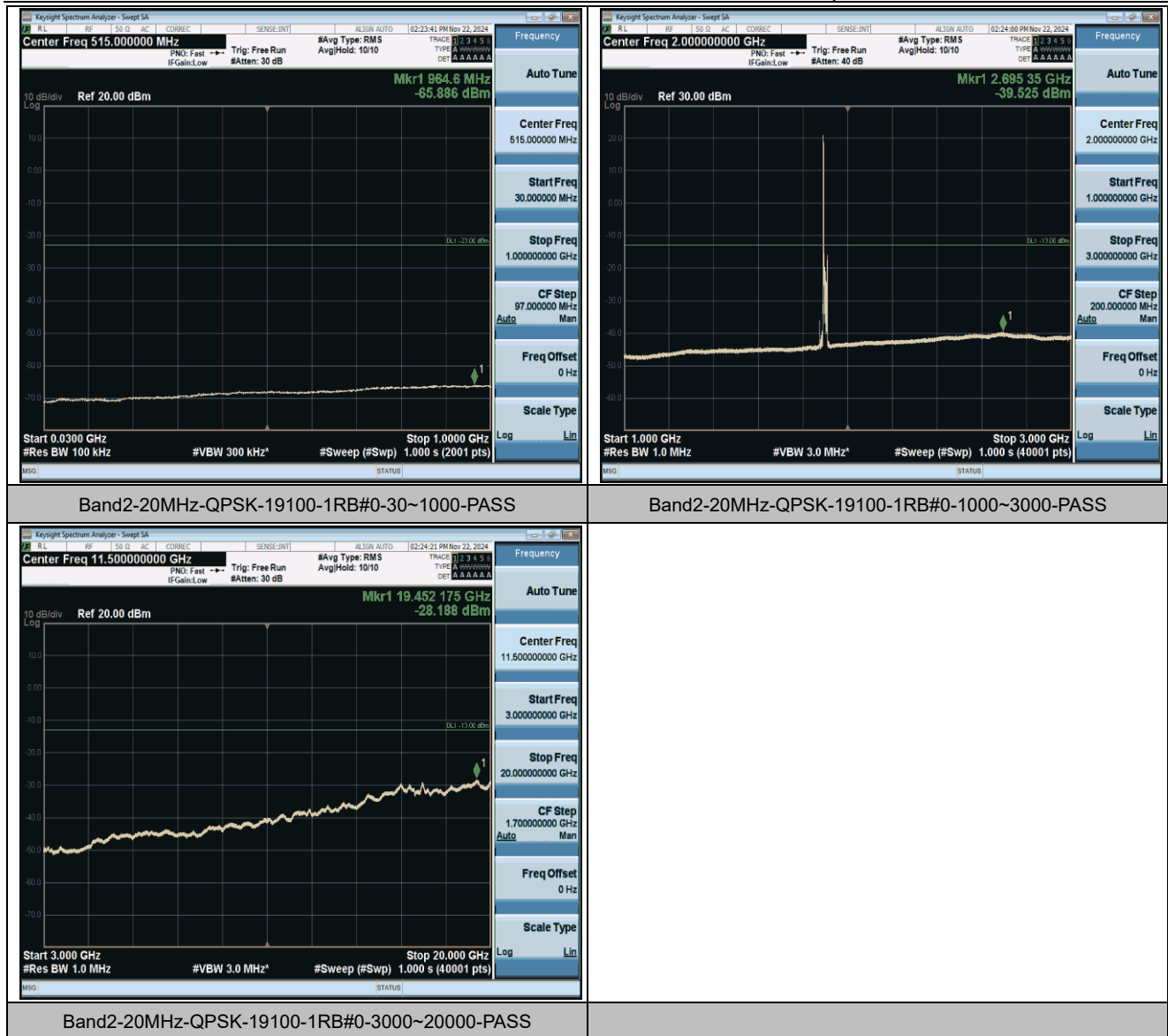
Band2-20MHz-QPSK-19100-100RB#0-PASS

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	-21.00	-0.011170	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-32.00	-0.017021	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-4.80	-0.002553	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	-33.70	-0.017926	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-23.80	-0.012660	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-19.90	-0.010585	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-31.30	-0.016649	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-36.60	-0.019468	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-22.00	-0.011702	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-12.50	-0.006649	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-40.60	-0.021596	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-41.50	-0.022074	PASS

~The End~