

Appendix-C LTE Band 7

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.35	21.33	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.35	21.33	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.44	21.42	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.43	20.41	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.41	20.39	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.47	20.45	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.5	20.48	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.74	19.72	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.75	21.73	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.65	21.63	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.68	21.66	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.63	20.61	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	23.48	21.46	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	23.44	21.42	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	23.44	21.42	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.84	19.82	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.62	21.6	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.52	21.5	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.52	21.5	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.58	20.56	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.74	20.72	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.64	20.62	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.63	20.61	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.94	19.92	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.37	21.35	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.58	21.56	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.48	21.46	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.48	20.46	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.37	20.35	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.63	20.61	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.54	20.52	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.59	19.57	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.66	21.64	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.69	21.67	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.66	21.64	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.65	20.63	33	PASS

Band7	10MHz	16QAM	21100	1RB#0	23.39	21.37	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.45	21.43	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	23.42	21.4	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.9	19.88	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.66	21.64	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.59	21.57	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.54	21.52	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.5	20.48	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	23.32	21.3	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.4	21.38	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	23.32	21.3	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.8	19.78	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.24	21.22	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.36	21.34	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.42	21.4	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.4	20.38	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.42	20.4	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.4	20.38	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.45	20.43	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.49	19.47	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.62	21.6	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.68	21.66	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.63	21.61	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.72	20.7	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	23.56	21.54	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	23.43	21.41	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	23.44	21.42	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.94	19.92	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.59	21.57	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.59	21.57	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.52	21.5	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.57	20.55	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.85	20.83	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.64	20.62	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.56	20.54	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.69	19.67	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.17	21.15	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.32	21.3	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.23	21.21	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.3	20.28	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.98	20.96	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.73	20.71	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.83	20.81	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.62	19.6	33	PASS

Band7	20MHz	QPSK	21100	1RB#0	23.48	21.46	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.7	21.68	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.58	21.56	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.61	20.59	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.99	20.97	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.84	20.82	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.92	20.9	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.82	19.8	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.46	21.44	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.47	21.45	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.43	21.41	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.52	20.5	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.86	20.84	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.79	20.77	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.72	20.7	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.76	19.74	33	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.44	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.14	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.36	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.08	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.41	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.12	13	PASS

Test Graphs

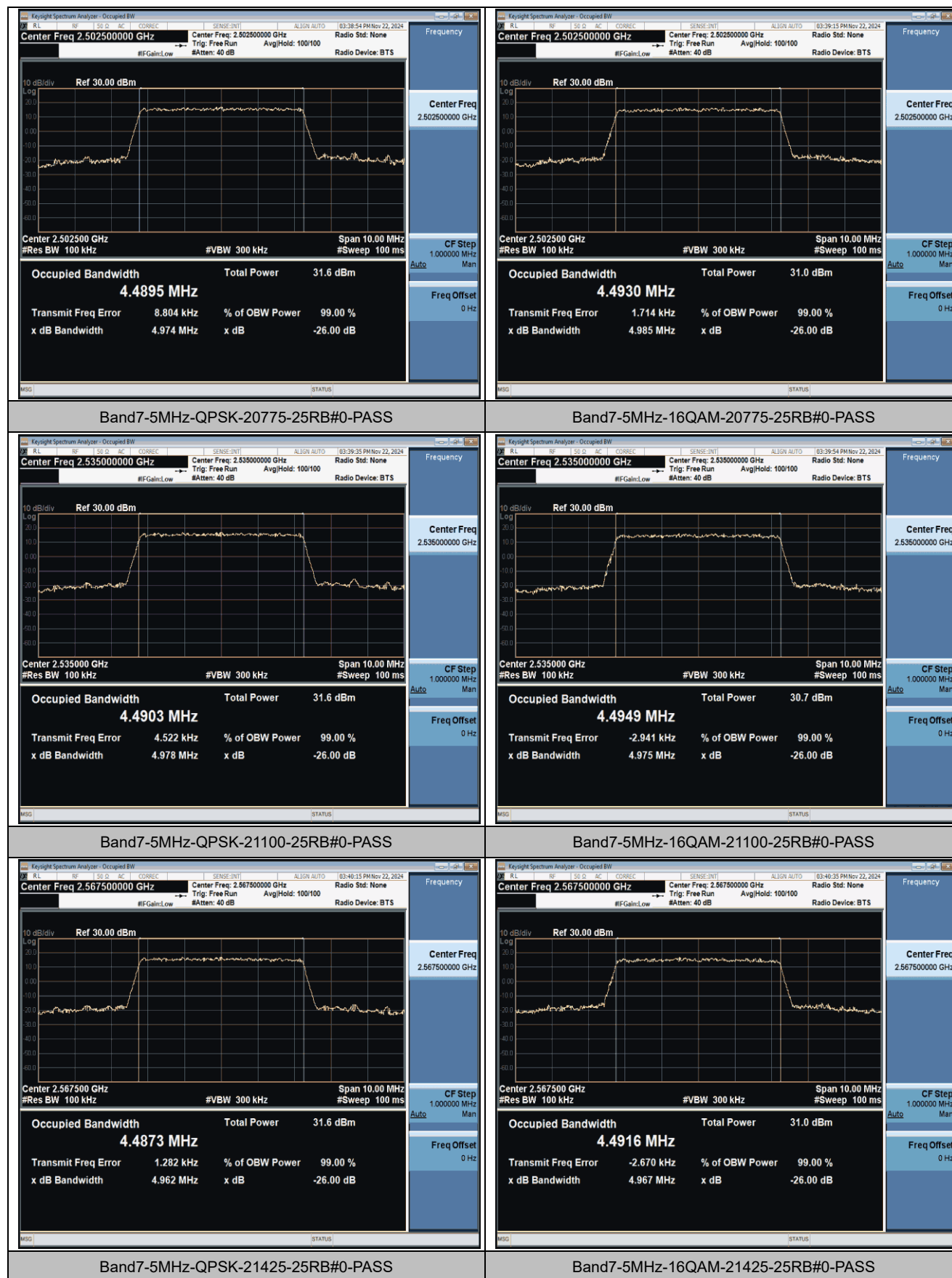


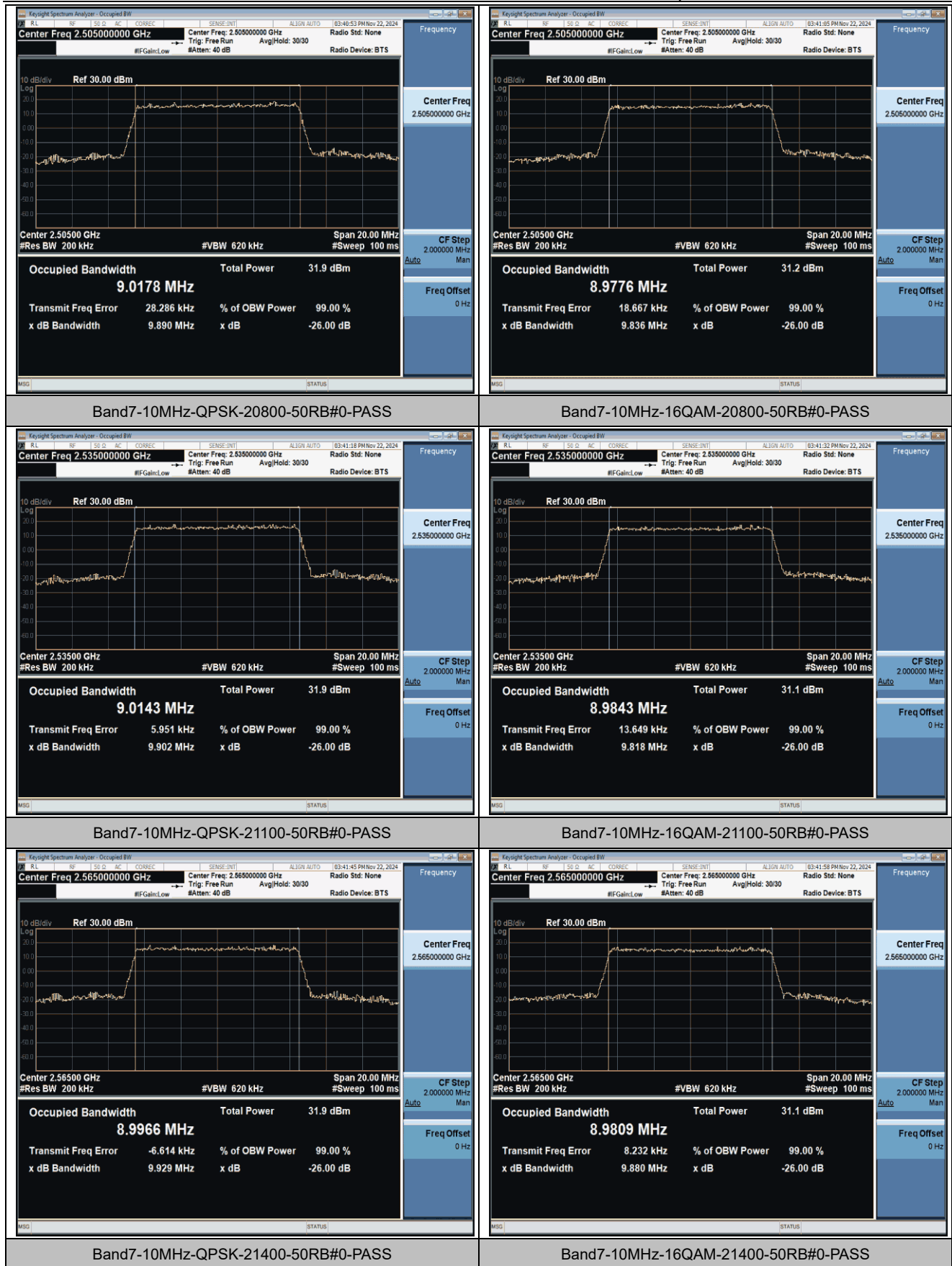
26dB Bandwidth and Occupied Bandwidth

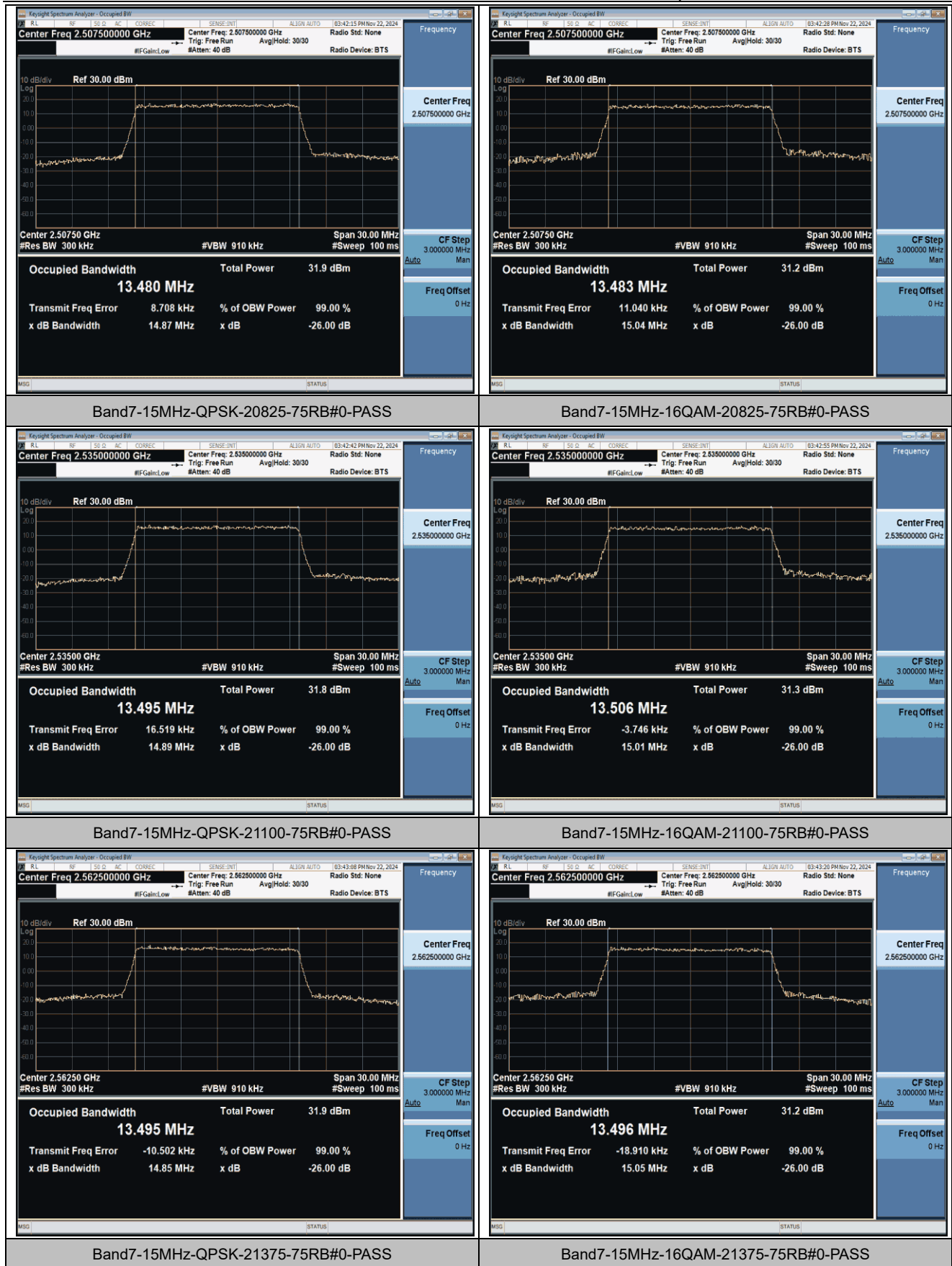
Test Result

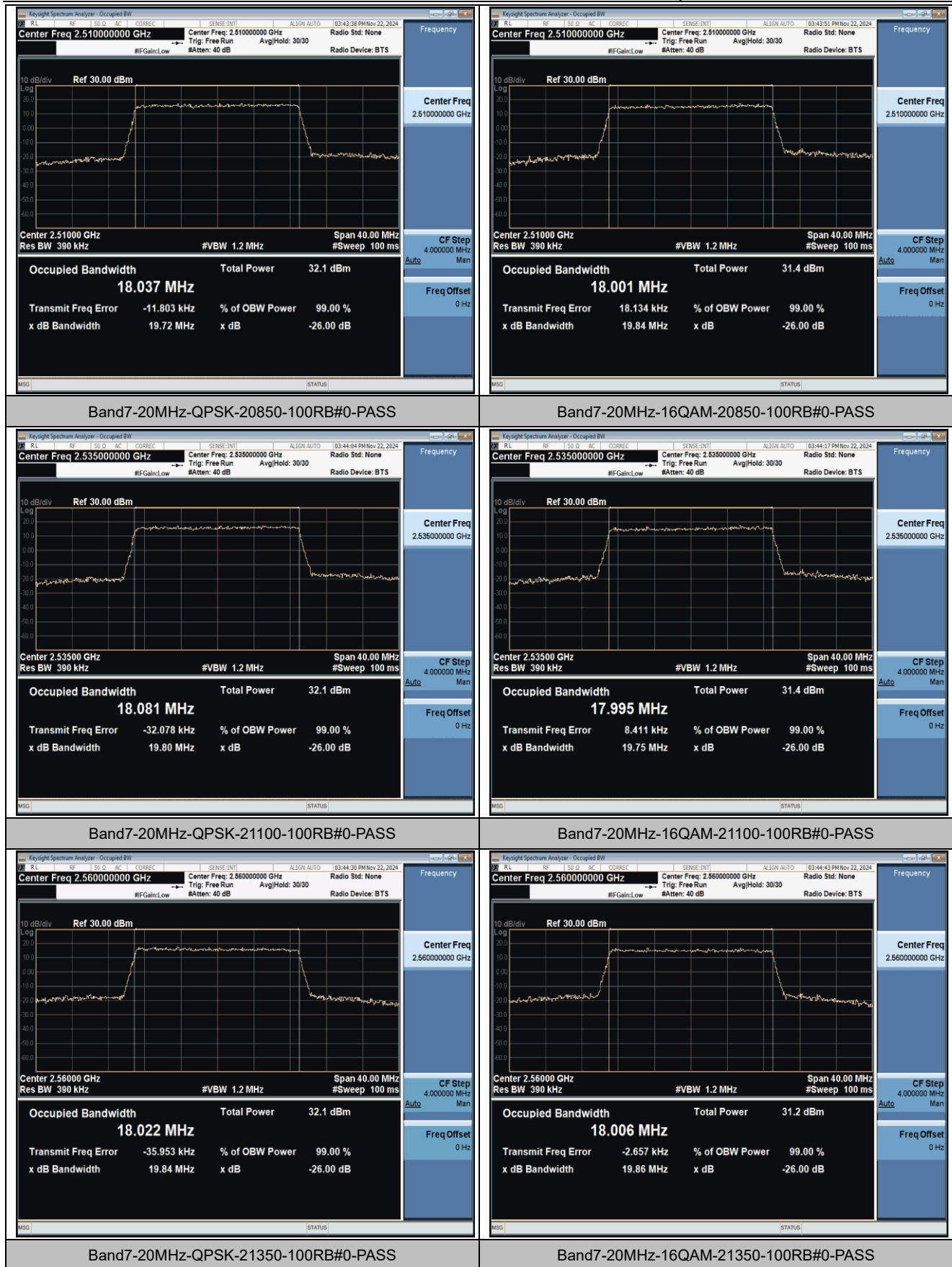
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4895	4.974	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4930	4.985	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4903	4.978	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4949	4.975	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4873	4.962	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.4916	4.967	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0178	9.890	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9776	9.836	PASS
Band7	10MHz	QPSK	21100	50RB#0	9.0143	9.902	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9843	9.818	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9966	9.929	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9809	9.880	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.480	14.87	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.483	15.04	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.495	14.89	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.506	15.01	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.495	14.85	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.496	15.05	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.037	19.72	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.001	19.84	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.081	19.80	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.995	19.75	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.022	19.84	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.006	19.86	PASS

Test Graphs



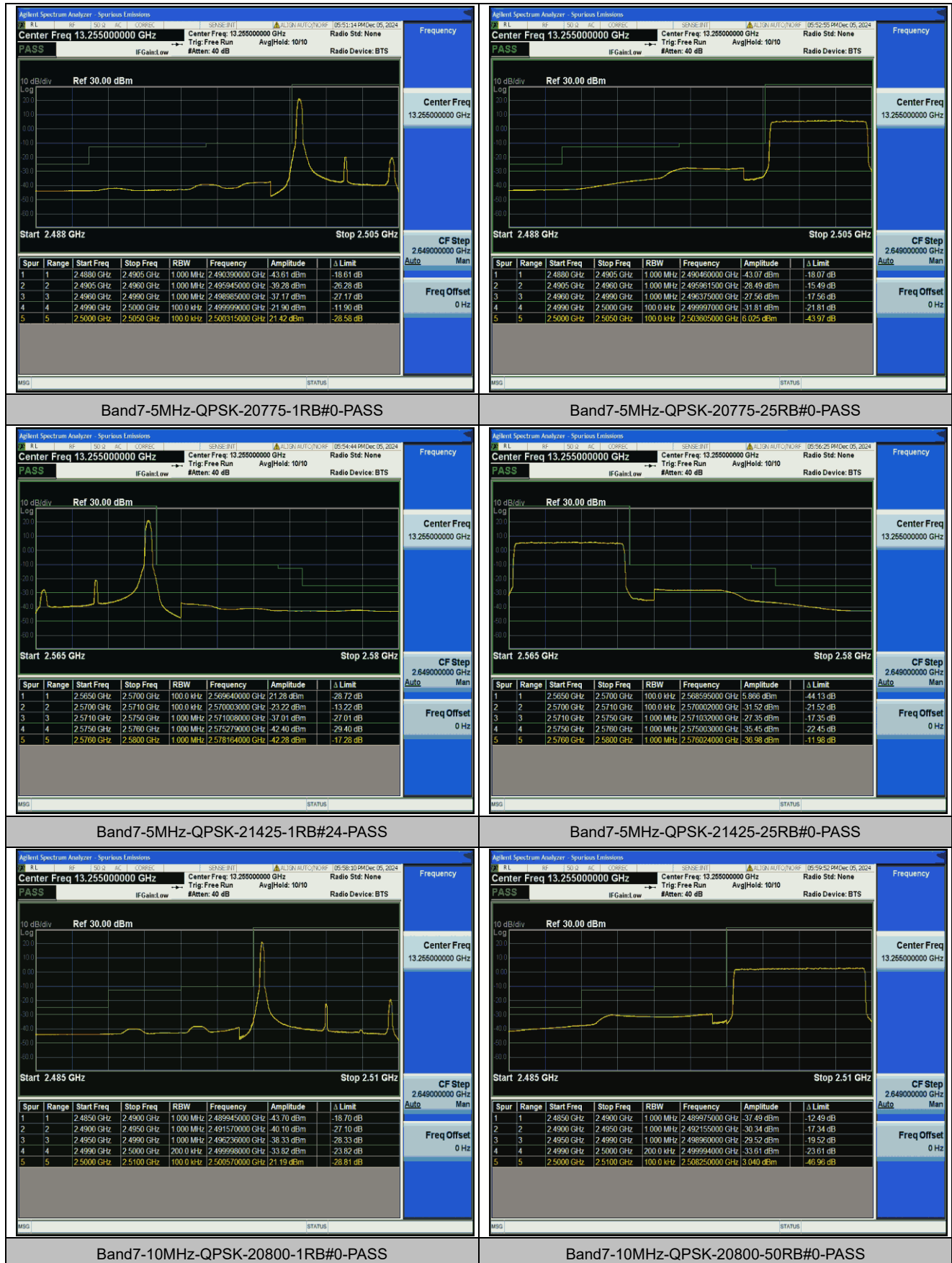


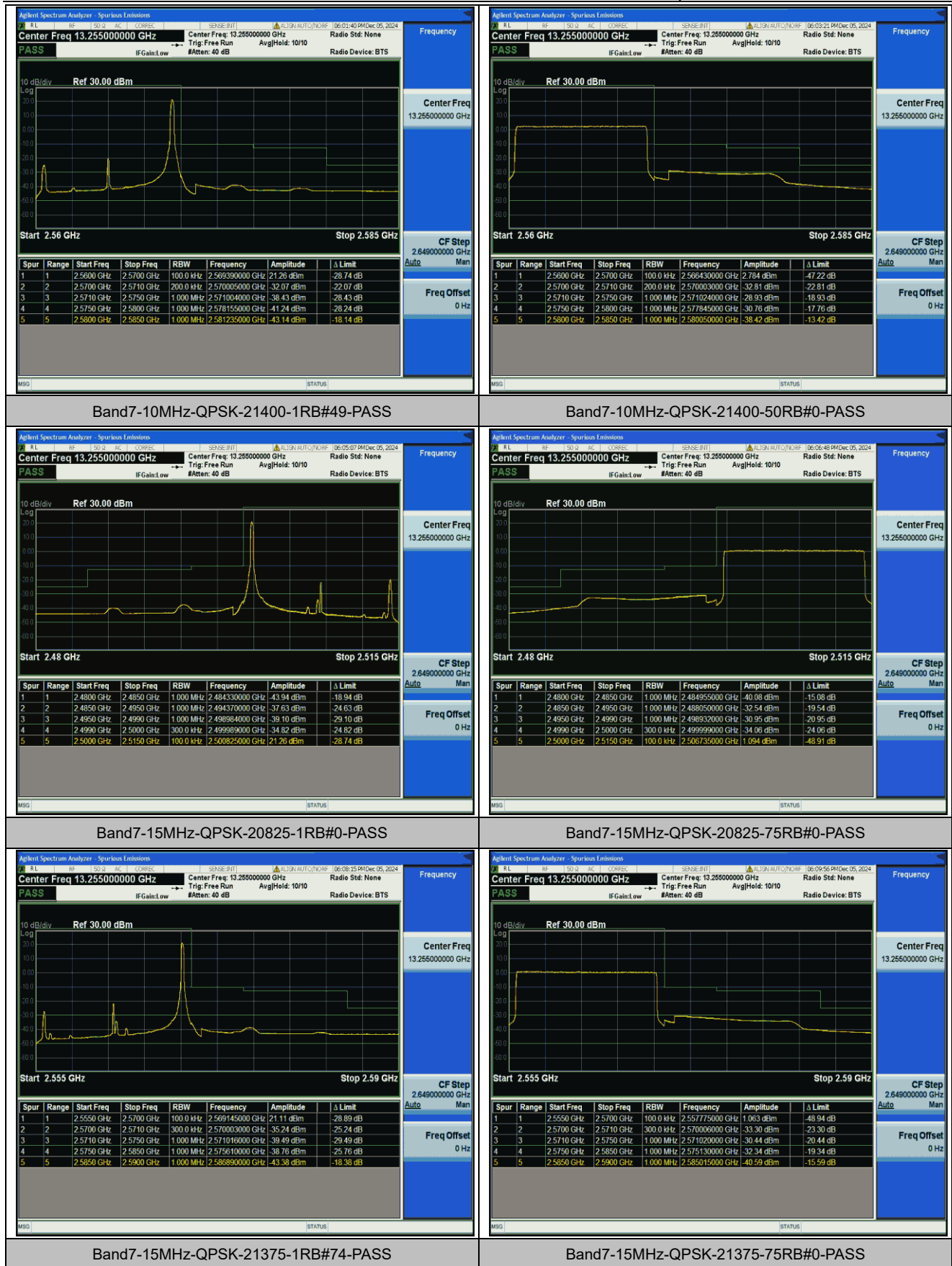


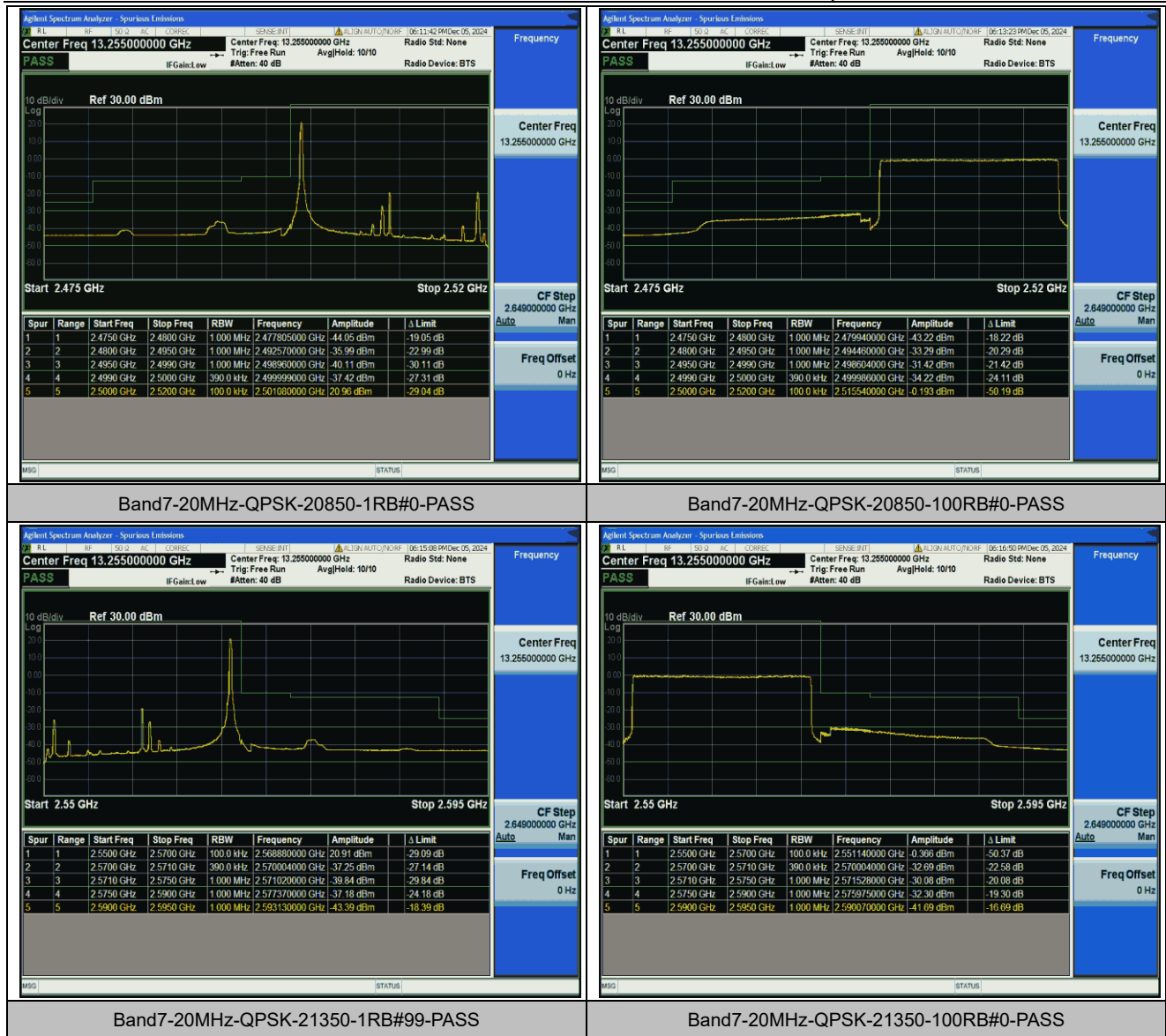


Band Edge

Test Graphs

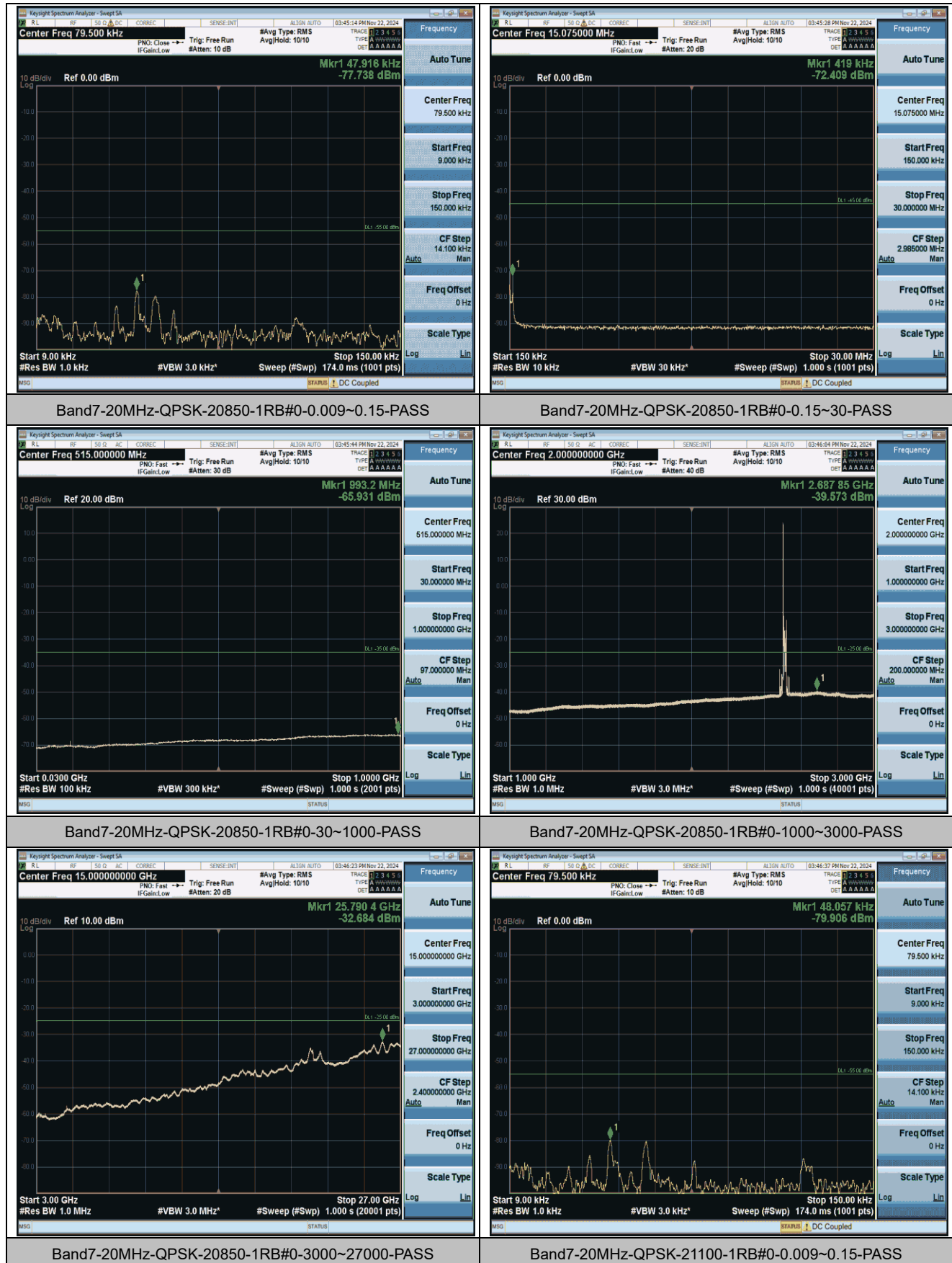


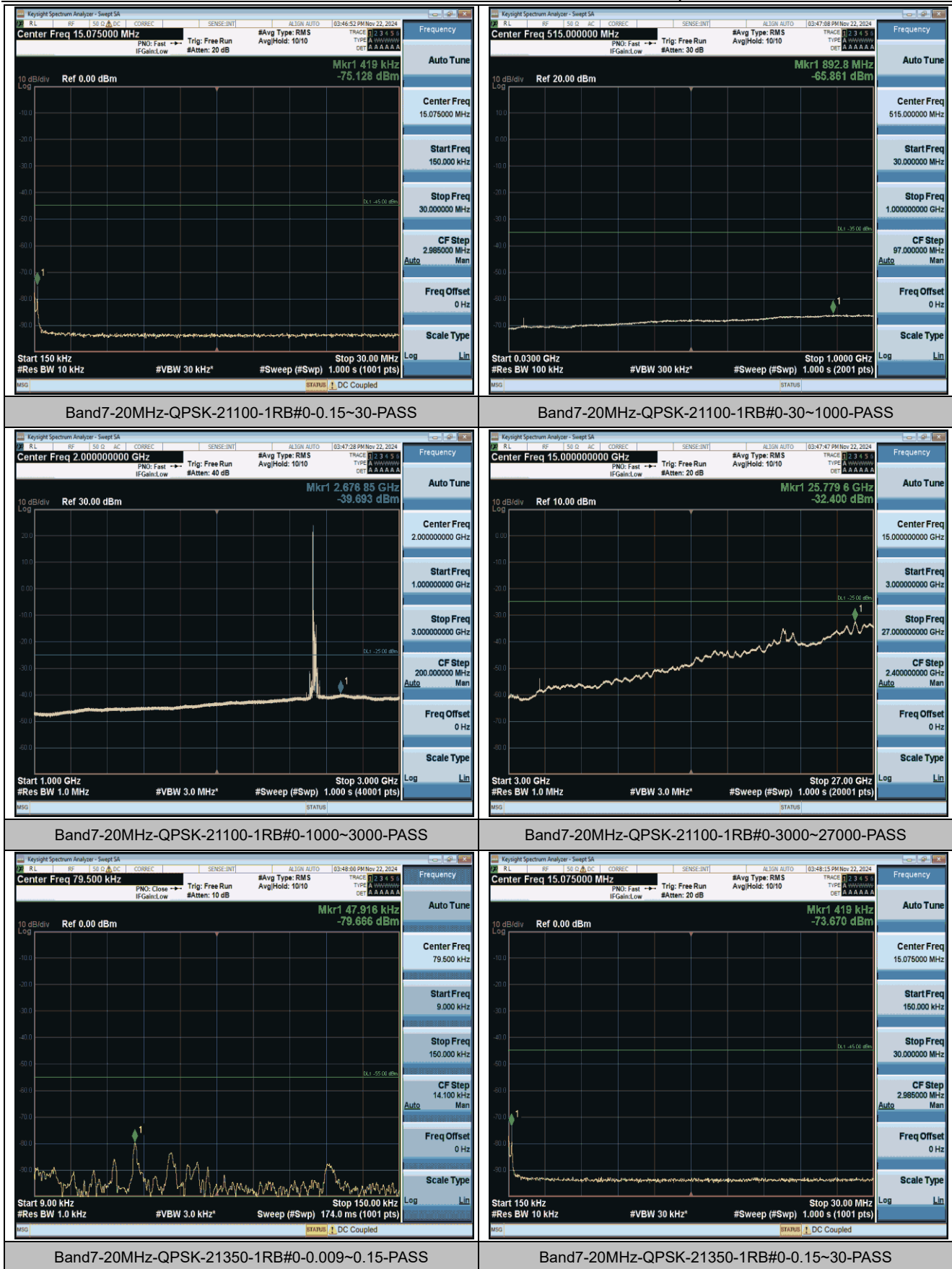


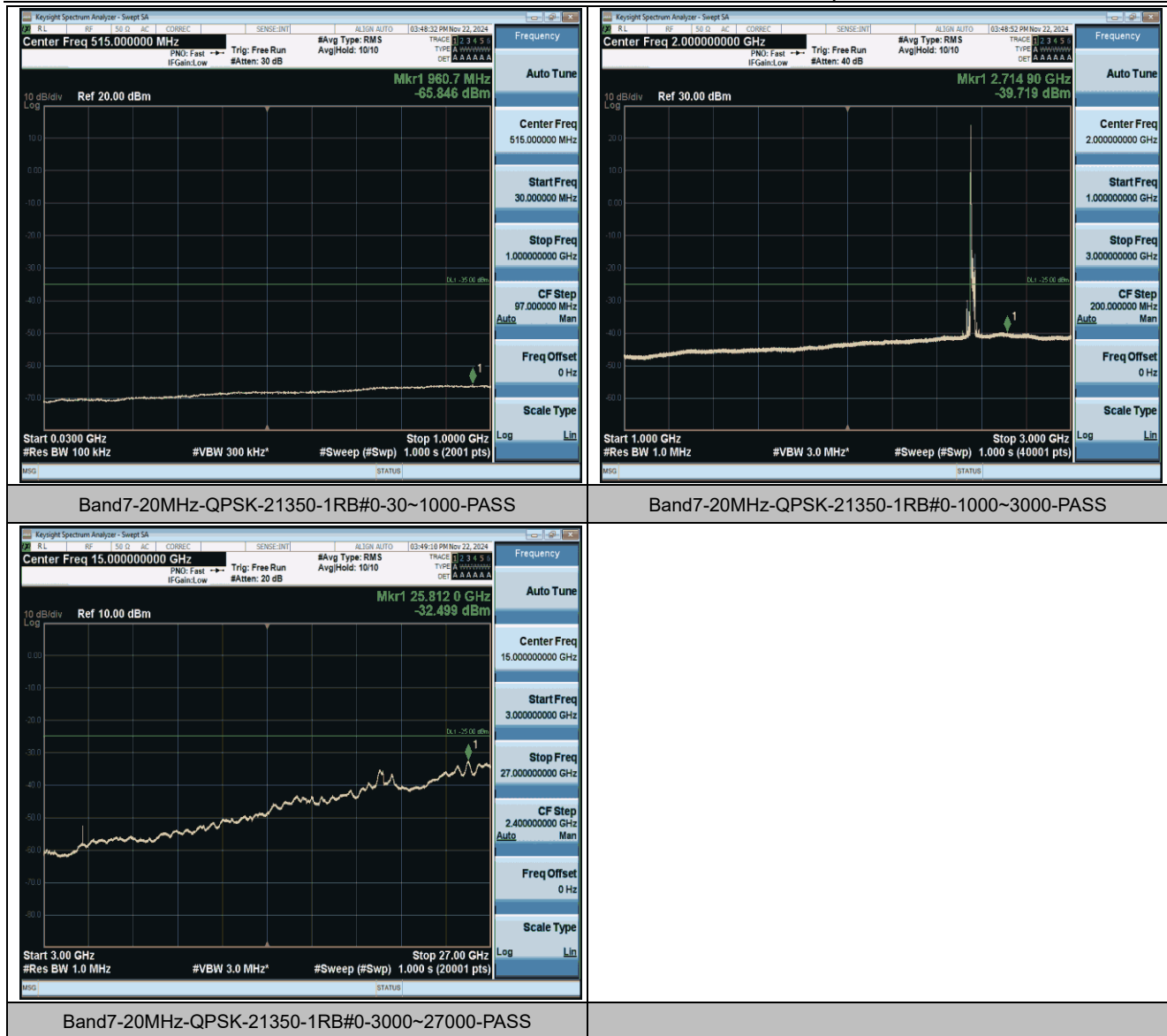


Conducted Spurious Emission

Test Graphs







Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-26.20	-0.010335	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-32.90	-0.012978	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-6.80	-0.002682	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-17.60	-0.006943	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-27.20	-0.010730	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-49.70	-0.019606	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	3.70	0.001460	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-5.30	-0.002091	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-15.60	-0.006154	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-23.20	-0.009152	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-29.10	-0.011479	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-31.60	-0.012465	PASS

~The End~