

Appendix-D 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	23.56	24.96	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.6	25	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.33	24.73	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.63	24.03	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.39	24.79	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.71	25.11	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.48	24.88	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.53	23.93	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.28	24.68	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.65	25.05	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.28	24.68	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.51	23.91	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.12	23.52	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	23.11	24.51	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.17	23.57	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.67	23.07	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.07	23.47	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.28	23.68	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.96	23.36	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.37	22.77	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.48	23.88	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.76	24.16	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.09	23.49	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.29	22.69	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.27	24.67	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.52	24.92	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.46	24.86	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.66	24.06	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.31	24.71	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.86	25.26	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.33	24.73	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.54	23.94	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.39	24.79	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.66	25.06	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.51	24.91	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.66	24.06	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.52	23.92	33.00	PASS

Band7	10MHz	16QAM	20800	1RB#24	22.91	24.31	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.49	23.89	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.5	22.9	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.47	23.87	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.86	24.26	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.57	23.97	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.37	22.77	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.4	23.8	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.89	24.29	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.68	24.08	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.62	23.02	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.42	24.82	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.49	24.89	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.37	24.77	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.64	24.04	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.3	24.7	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.56	24.96	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.46	24.86	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.57	23.97	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.44	24.84	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.44	24.84	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.55	24.95	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.66	24.06	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.52	23.92	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.15	24.55	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.43	23.83	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.57	22.97	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.36	23.76	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.58	23.98	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.52	23.92	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.36	22.76	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.46	23.86	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.82	24.22	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.33	23.73	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.56	22.96	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.35	24.75	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.81	25.21	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.59	24.99	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.65	24.05	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.46	24.86	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.79	25.19	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.63	25.03	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.55	23.95	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.44	24.84	33.00	PASS

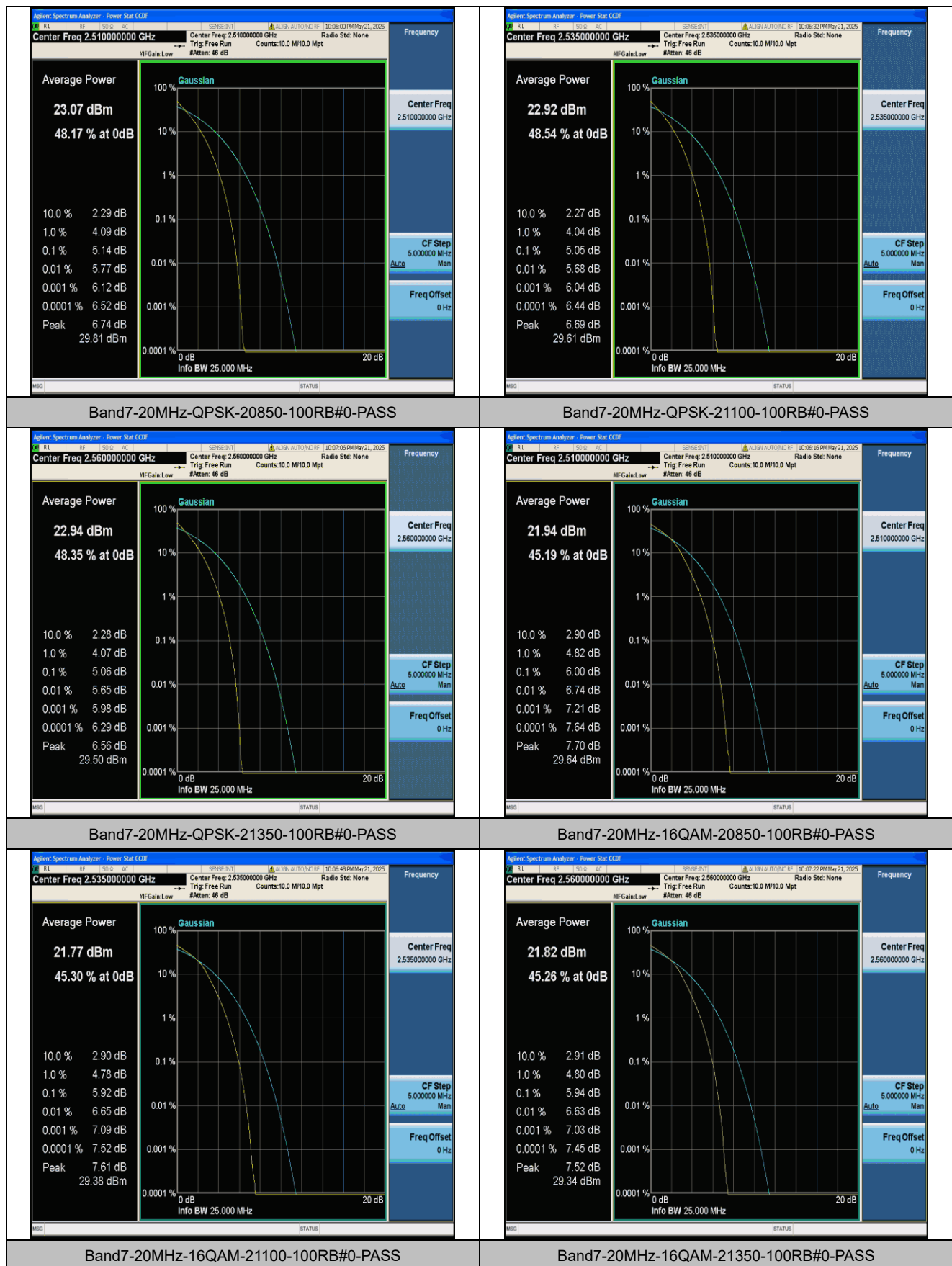
Band7	20MHz	QPSK	21350	1RB#49	23.71	25.11	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.8	25.2	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.6	24	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.39	23.79	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	23.17	24.57	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.63	24.03	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.7	23.1	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.31	23.71	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.12	24.52	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.34	23.74	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.61	23.01	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	23.28	24.68	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	23.5	24.9	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	23.2	24.6	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.56	22.96	33.00	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	5.14	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.05	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.06	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.00	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.92	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.94	13	PASS

Test Graphs

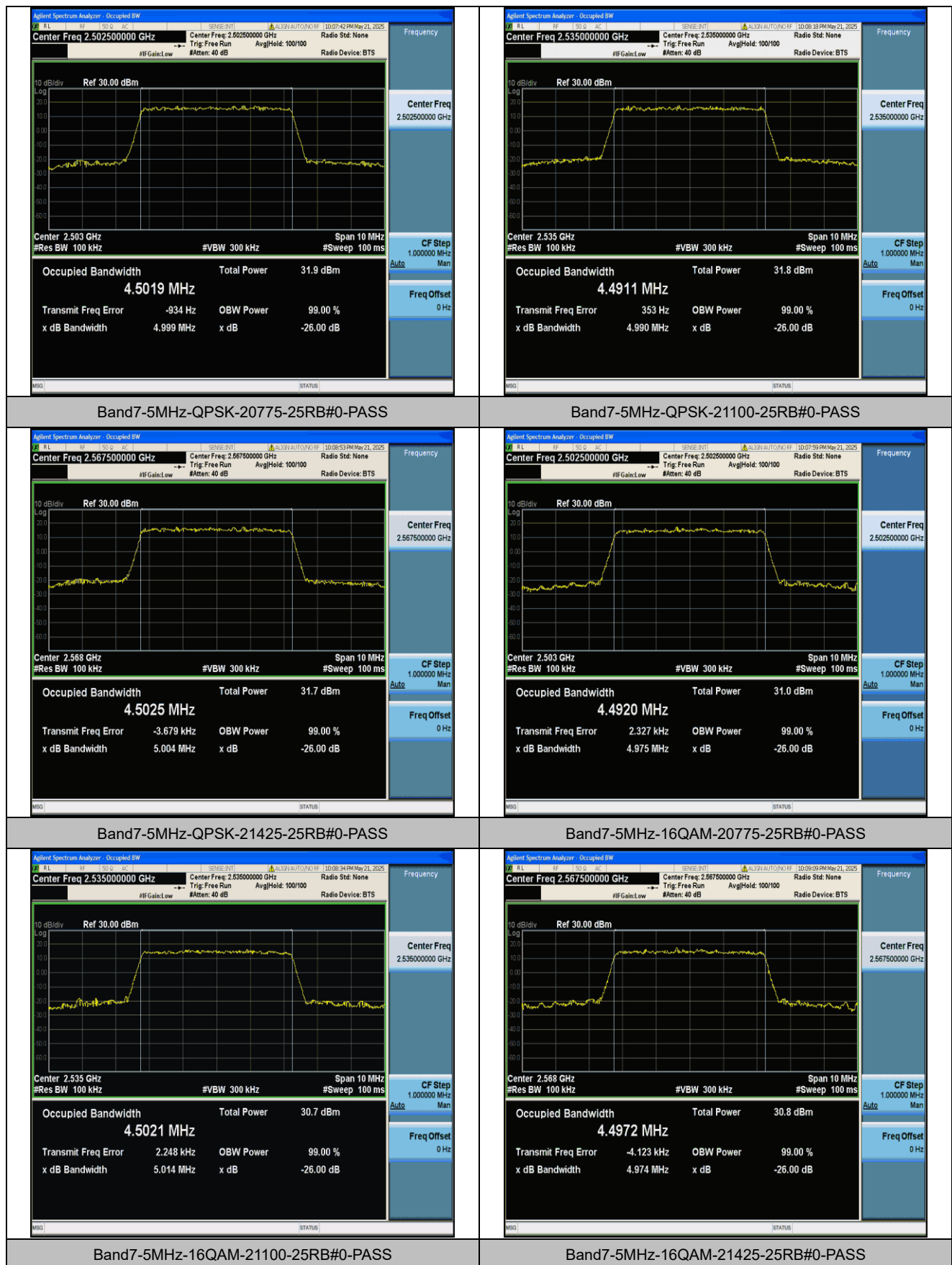


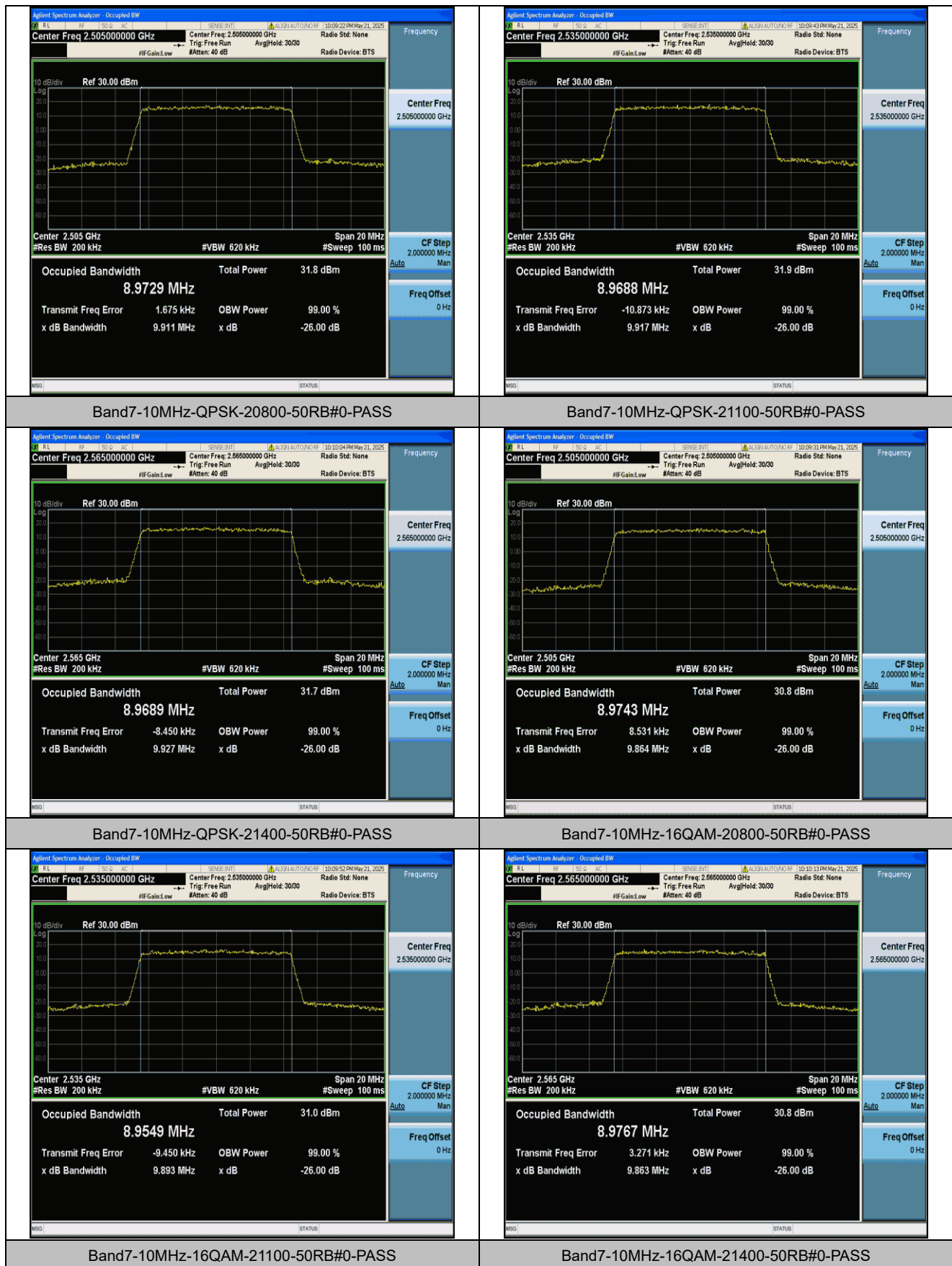
26dB Bandwidth and Occupied Bandwidth

Test Result

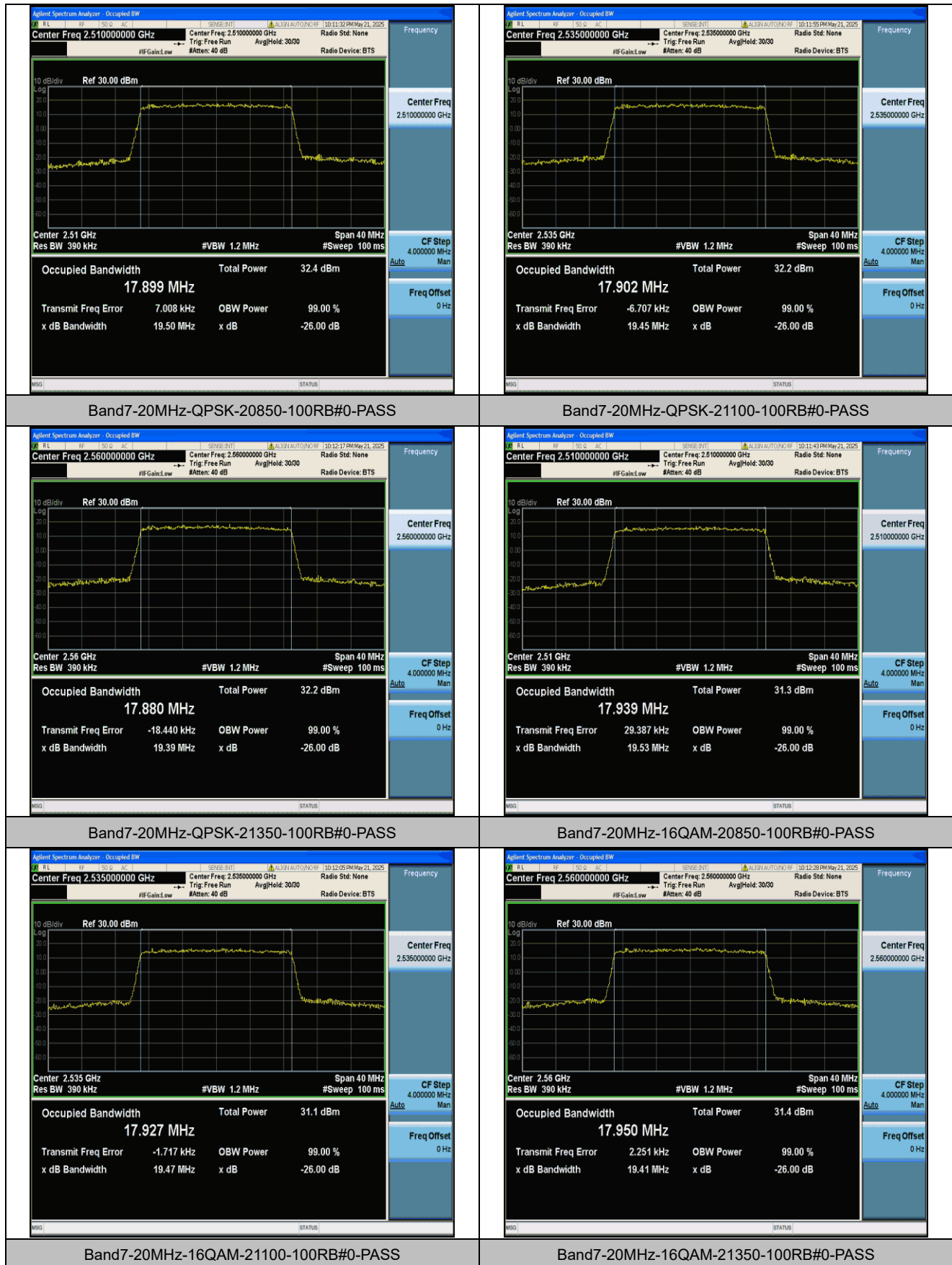
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5019	4.999	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4911	4.990	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5025	5.004	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4920	4.975	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5021	5.014	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.4972	4.974	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9729	9.911	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9688	9.917	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9689	9.927	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9743	9.864	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9549	9.893	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9767	9.863	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.453	14.80	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.440	14.73	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.453	14.75	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.451	14.68	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.472	14.78	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.446	14.69	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.899	19.50	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.902	19.45	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.880	19.39	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.939	19.53	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.927	19.47	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.950	19.41	PASS

Test Graphs



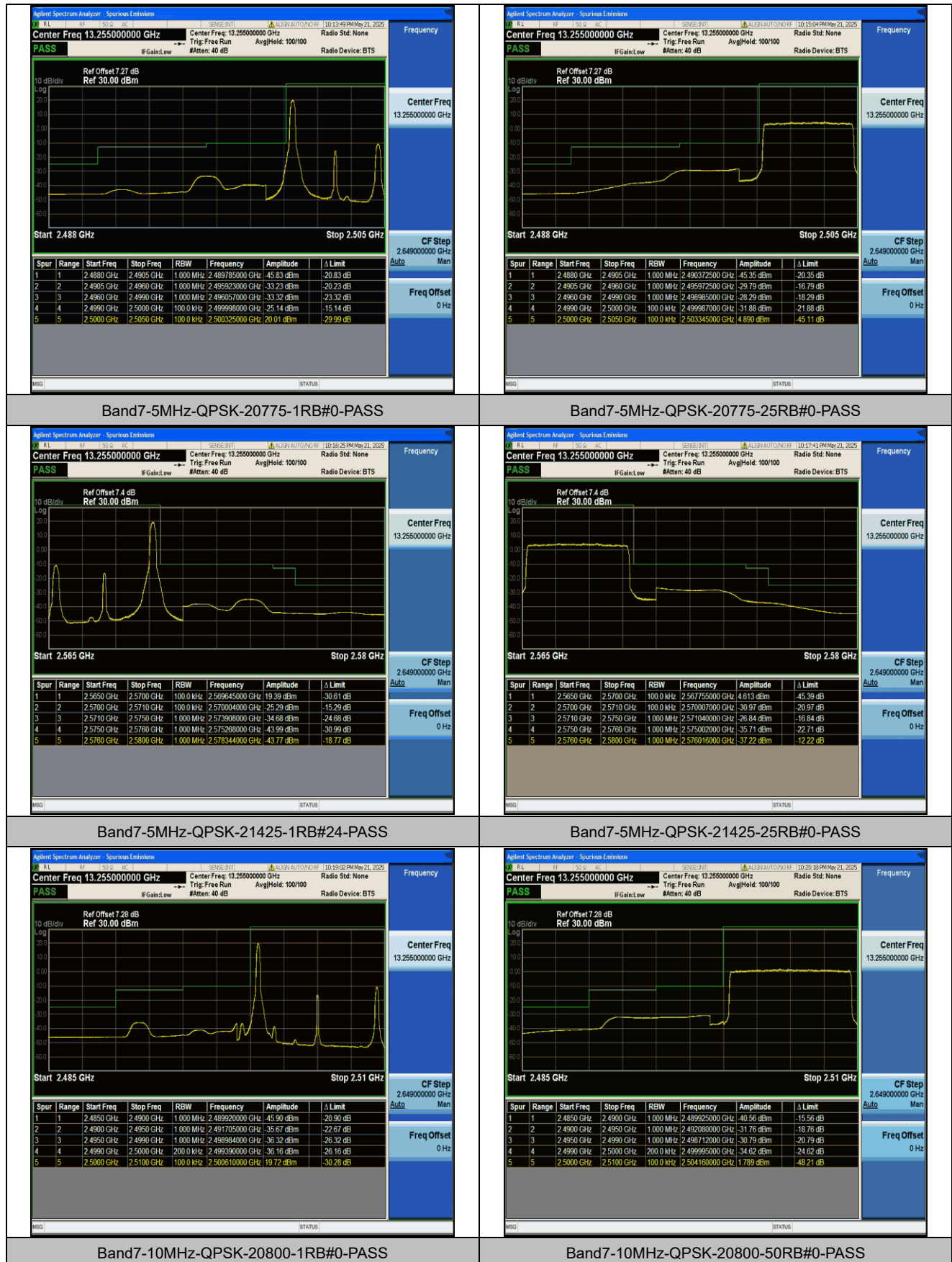


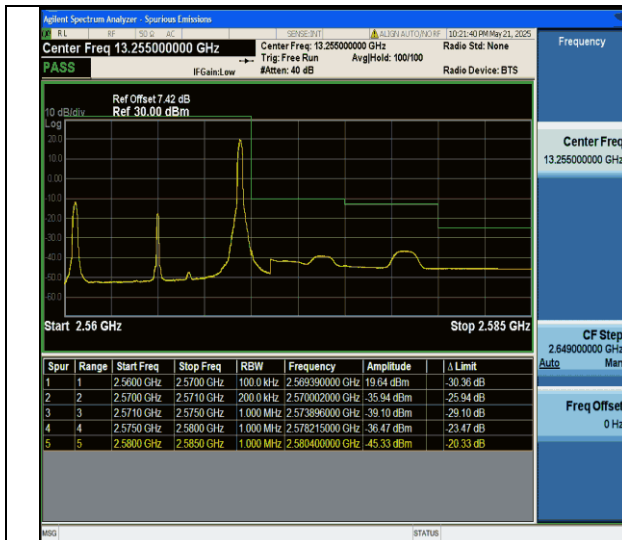




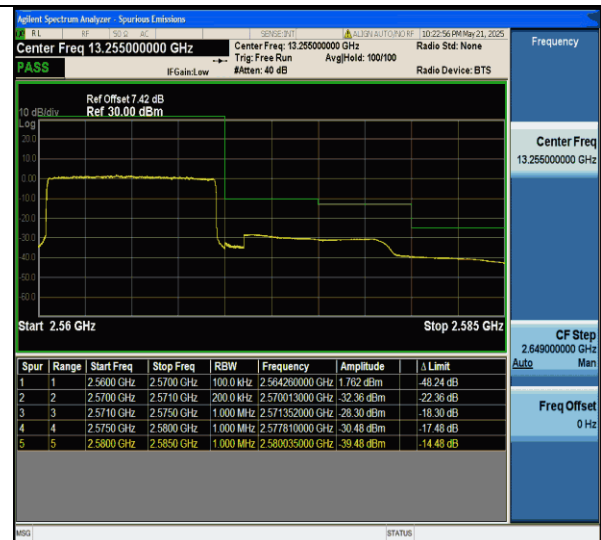
Band Edge

Test Graphs

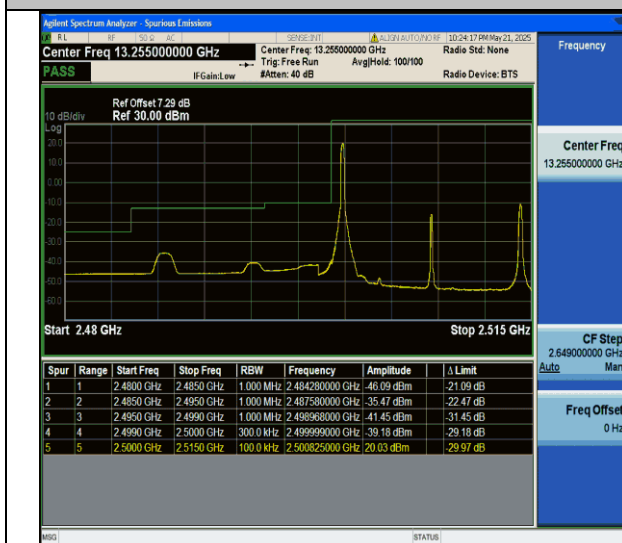




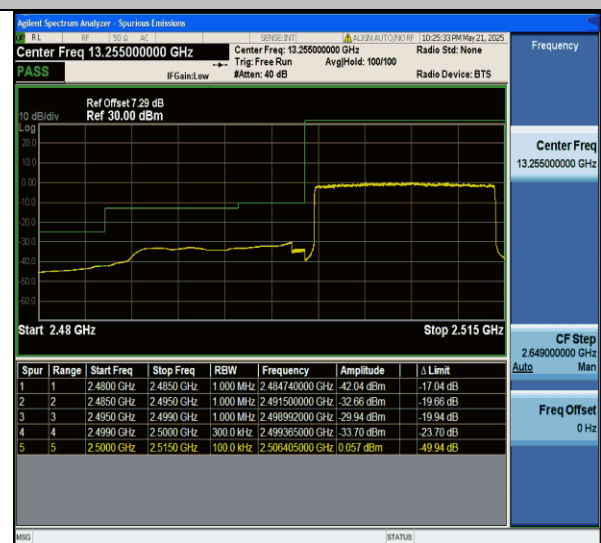
Band7-10MHz-QPSK-21400-1RB#49-PASS



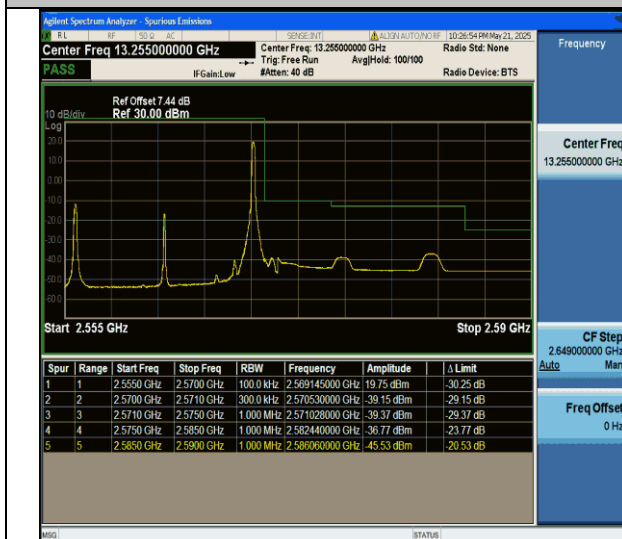
Band7-10MHz-QPSK-21400-50RB#0-PASS



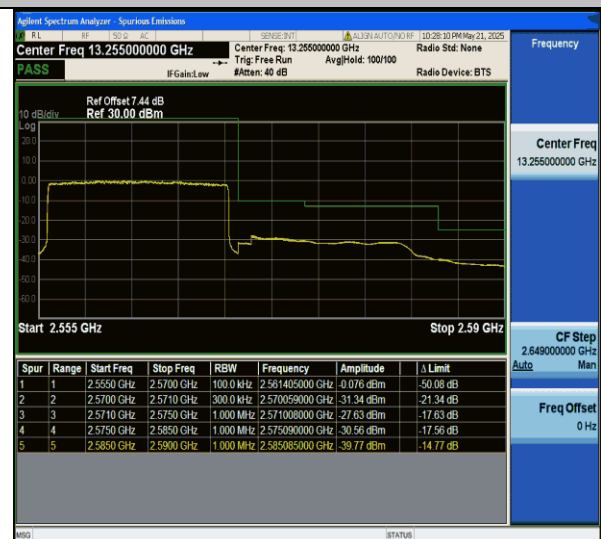
Band7-15MHz-QPSK-20825-1RB#0-PASS



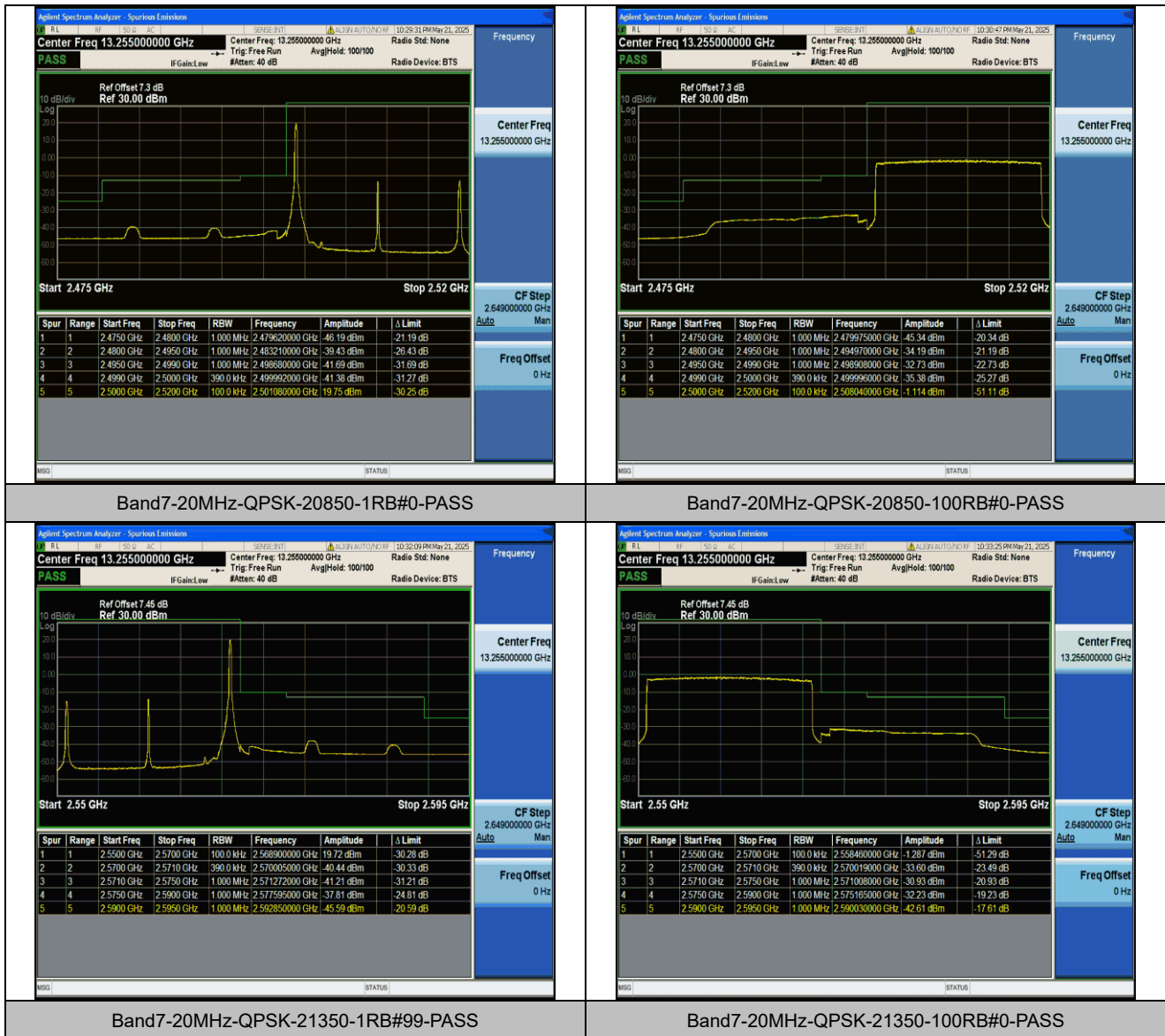
Band7-15MHz-QPSK-20825-75RB#0-PASS



Band7-15MHz-QPSK-21375-1RB#74-PASS

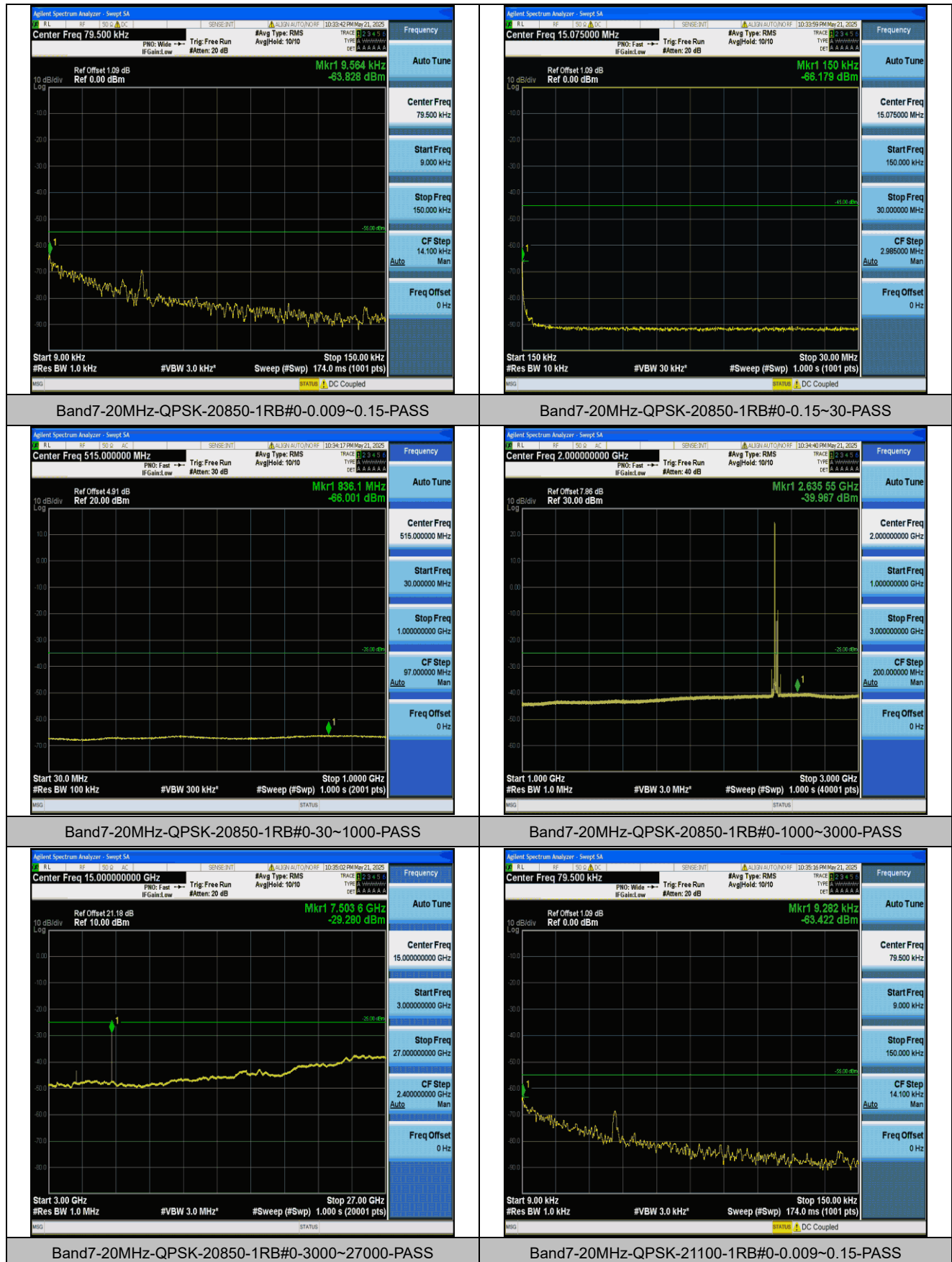


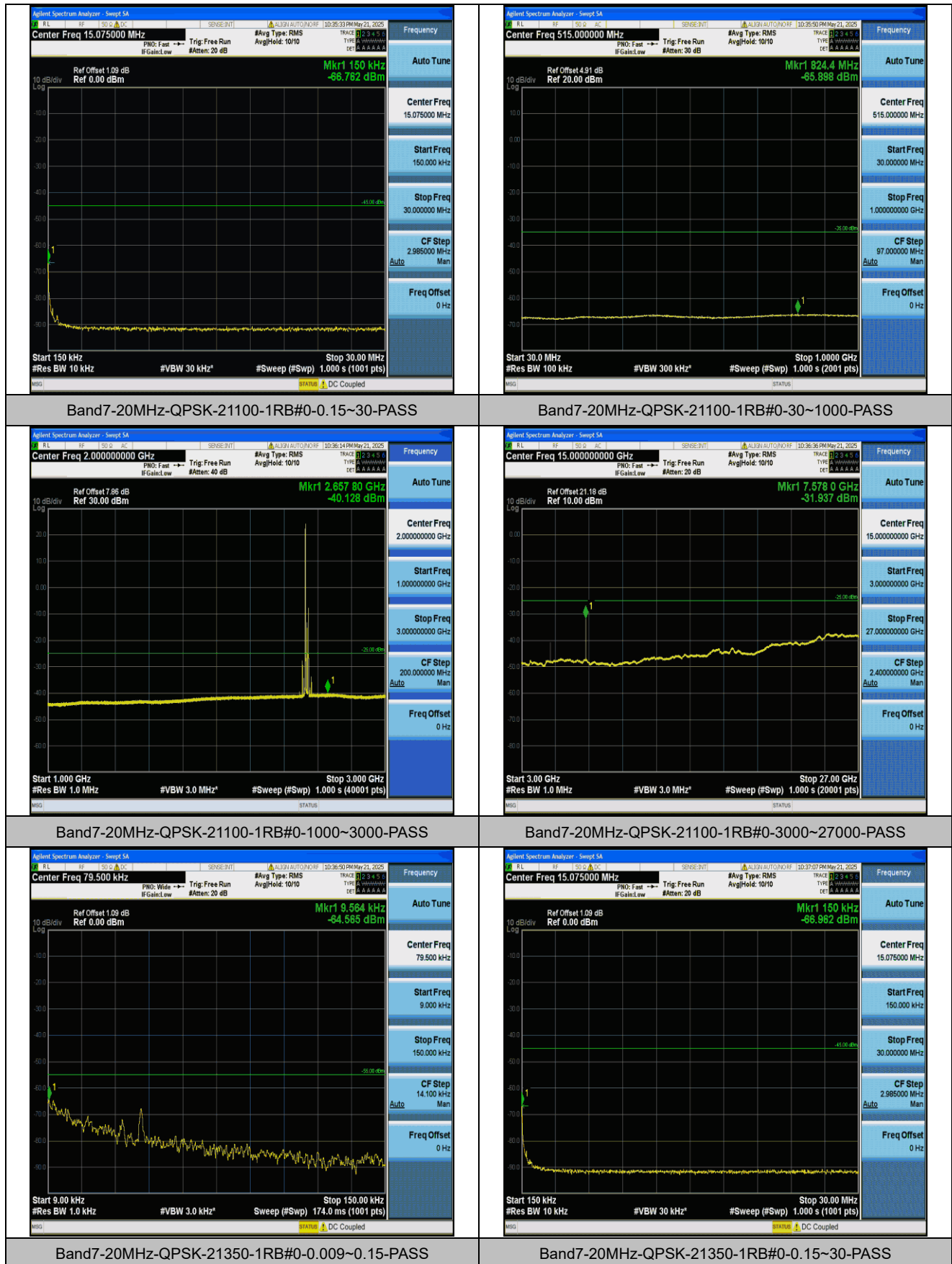
Band7-15MHz-QPSK-21375-75RB#0-PASS

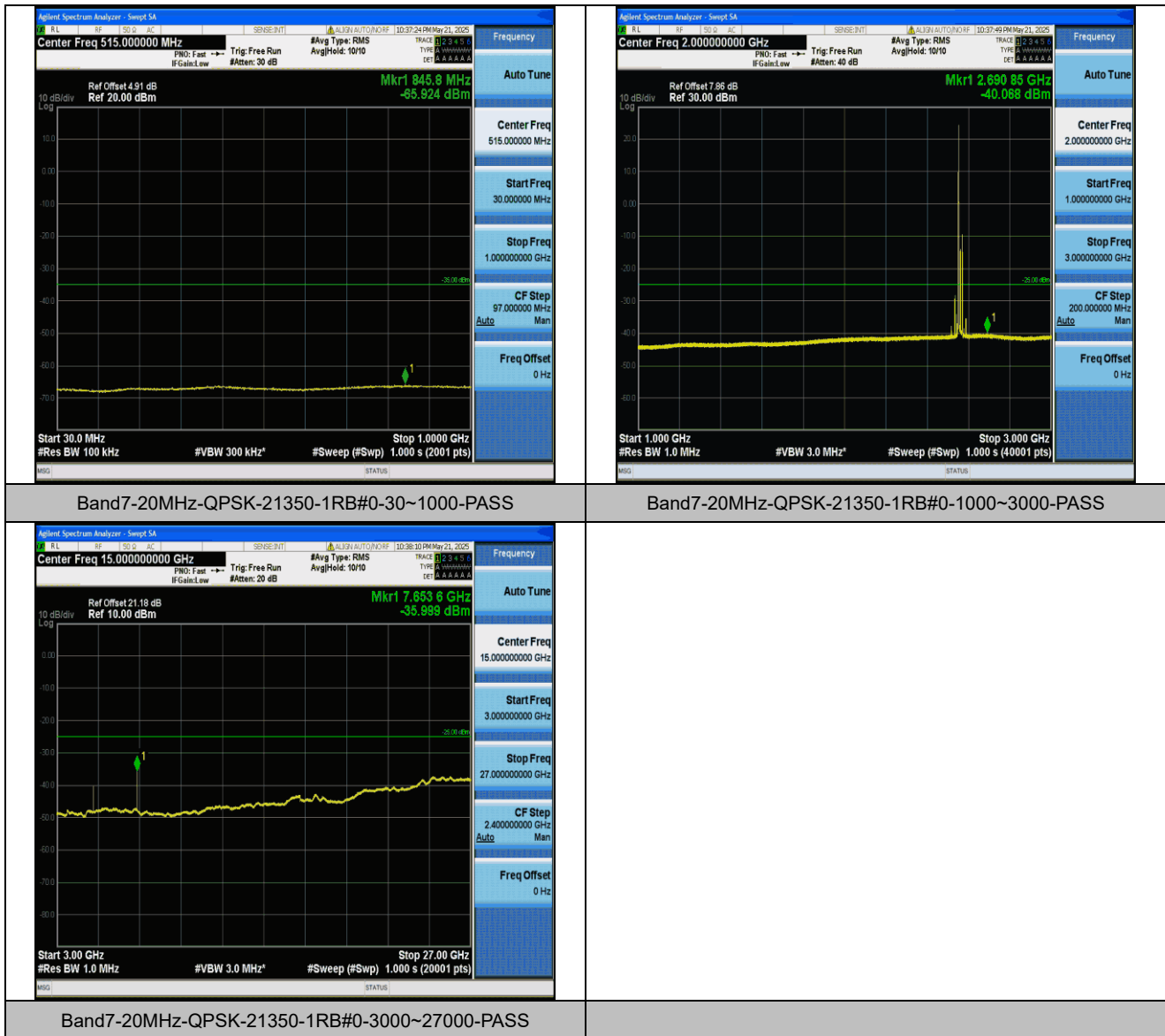


Conducted Spurious Emission

Test Graphs







Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-8.27	-0.003262	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-5.42	-0.002138	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-4.16	-0.001641	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-10.51	-0.004146	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-6.67	-0.002631	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-6.01	-0.002371	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-17.80	-0.007022	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-6.69	-0.002639	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-6.75	-0.002663	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	3.19	0.001258	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-8.93	-0.003523	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-3.66	-0.001444	PASS

~The End~