

Appendix-A LTE Band 41

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	22.85	24.25	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	22.93	24.33	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.89	24.29	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.08	23.48	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.31	23.71	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.37	23.77	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.36	23.76	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.17	22.57	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.19	24.59	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.21	24.61	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.25	24.65	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.23	23.63	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.63	24.03	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.63	24.03	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.63	24.03	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.39	22.79	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.24	24.64	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.3	24.7	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.28	24.68	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.31	23.71	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.63	24.03	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.65	24.05	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.69	24.09	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.51	22.91	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.9	24.3	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.87	24.27	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.03	24.43	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.11	23.51	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.37	23.77	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.32	23.72	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.45	23.85	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.17	22.57	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.26	24.66	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.14	24.54	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.2	24.6	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.31	23.71	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.68	24.08	33.00	PASS

Band41	10MHz	16QAM	40620	1RB#24	22.67	24.07	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.63	24.03	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.43	22.83	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.22	24.62	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.26	24.66	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.29	24.69	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.34	23.74	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.61	24.01	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.65	24.05	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.72	24.12	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.47	22.87	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.89	24.29	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.01	24.41	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.15	24.55	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.06	23.46	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.33	23.73	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.39	23.79	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.52	23.92	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.23	22.63	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.21	24.61	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.24	24.64	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.23	24.63	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.28	23.68	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.64	24.04	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.7	24.1	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.64	24.04	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.46	22.86	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.07	24.47	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.14	24.54	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.23	24.63	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.21	23.61	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.46	23.86	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.52	23.92	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.63	24.03	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.35	22.75	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.88	24.28	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.07	24.47	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.15	24.55	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.08	23.48	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.33	23.73	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.41	23.81	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.57	23.97	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.25	22.65	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.21	24.61	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.22	24.62	33.00	PASS

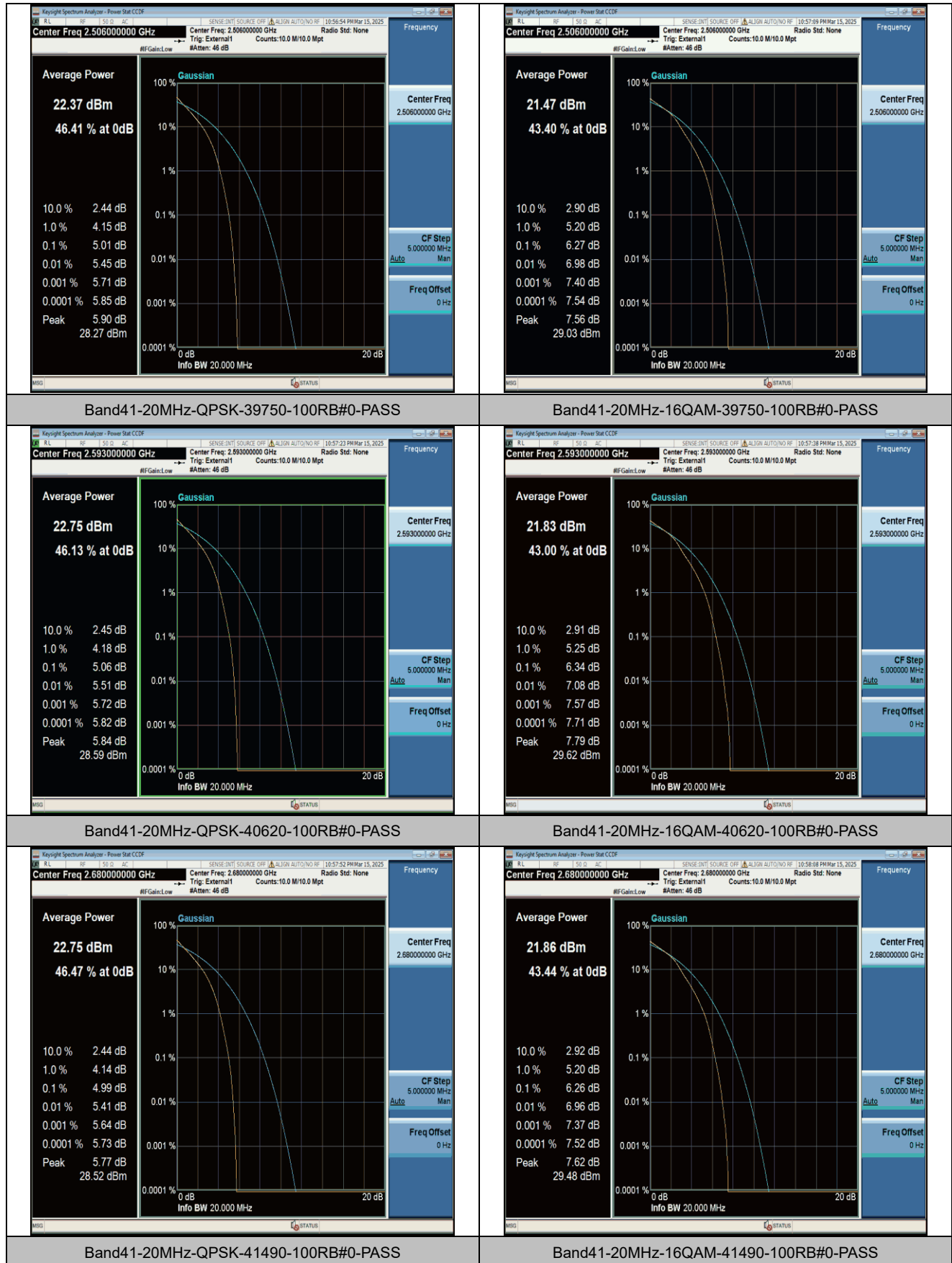
Band41	20MHz	QPSK	40620	1RB#99	23.18	24.58	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.3	23.7	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.63	24.03	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.65	24.05	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.58	23.98	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.41	22.81	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.12	24.52	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.09	24.49	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.22	24.62	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.22	23.62	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.51	23.91	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.48	23.88	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.61	24.01	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.3	22.7	33.00	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	5.01	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.27	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.06	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.34	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	4.99	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.26	13	PASS

Test Graphs

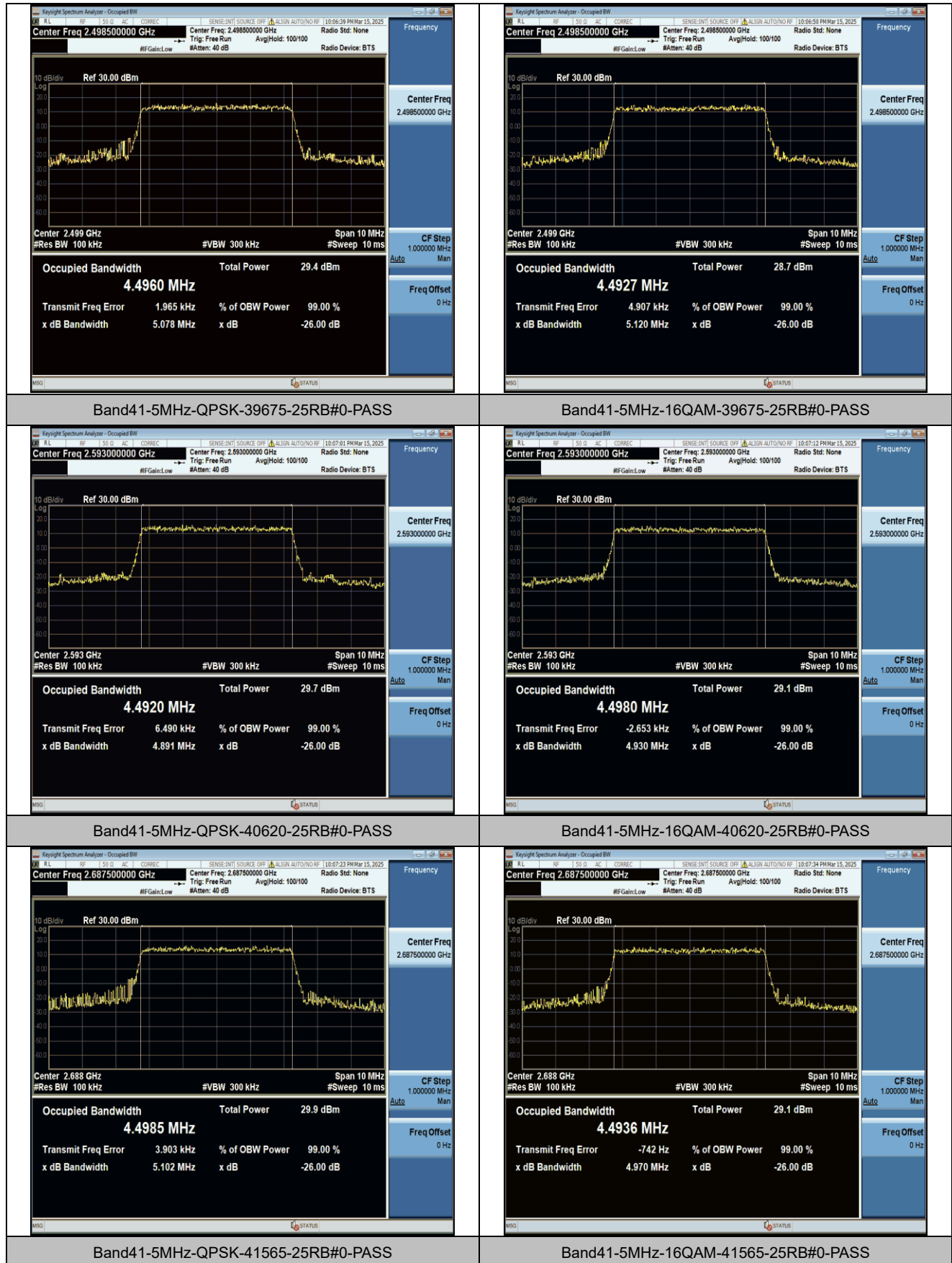


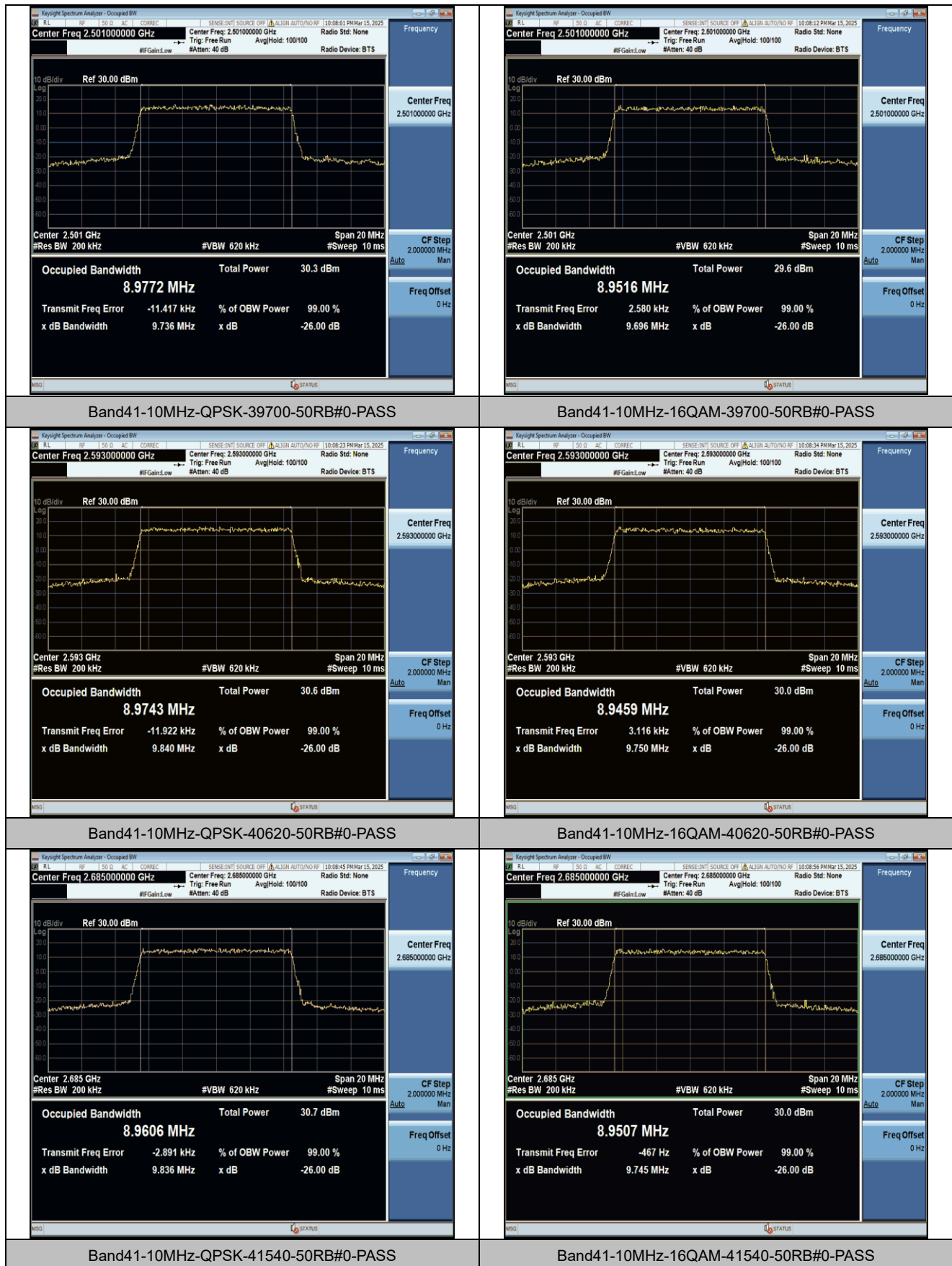
26dB Bandwidth and Occupied Bandwidth

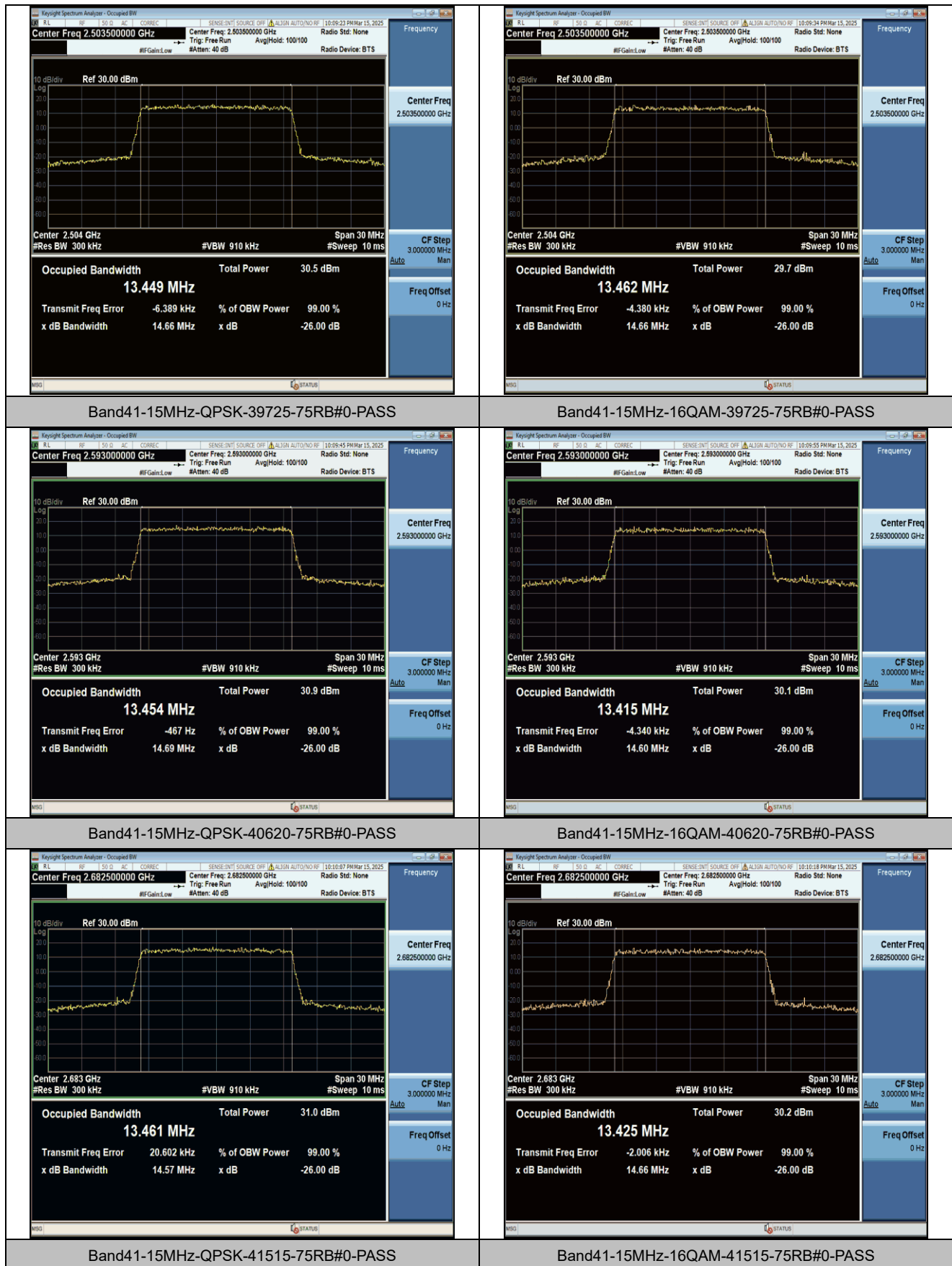
Test Result

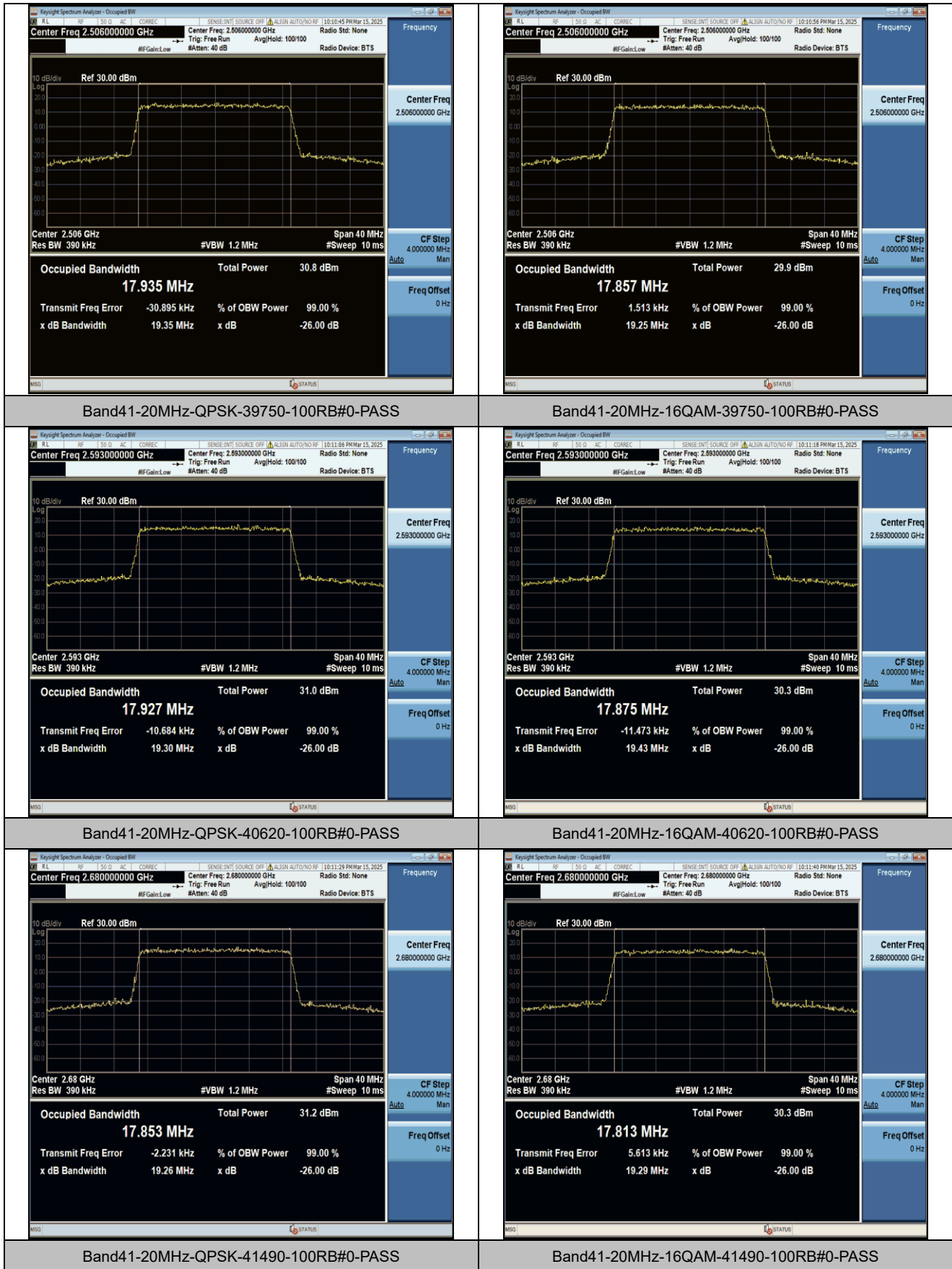
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4960	5.078	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4927	5.120	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4920	4.891	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4980	4.930	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4985	5.102	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4936	4.970	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9772	9.736	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9516	9.696	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9743	9.840	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9459	9.750	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9606	9.836	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9507	9.745	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.449	14.66	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.462	14.66	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.454	14.69	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.415	14.60	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.461	14.57	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.425	14.66	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.935	19.35	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.857	19.25	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.927	19.30	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.875	19.43	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.853	19.26	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.813	19.29	PASS

Test Graphs



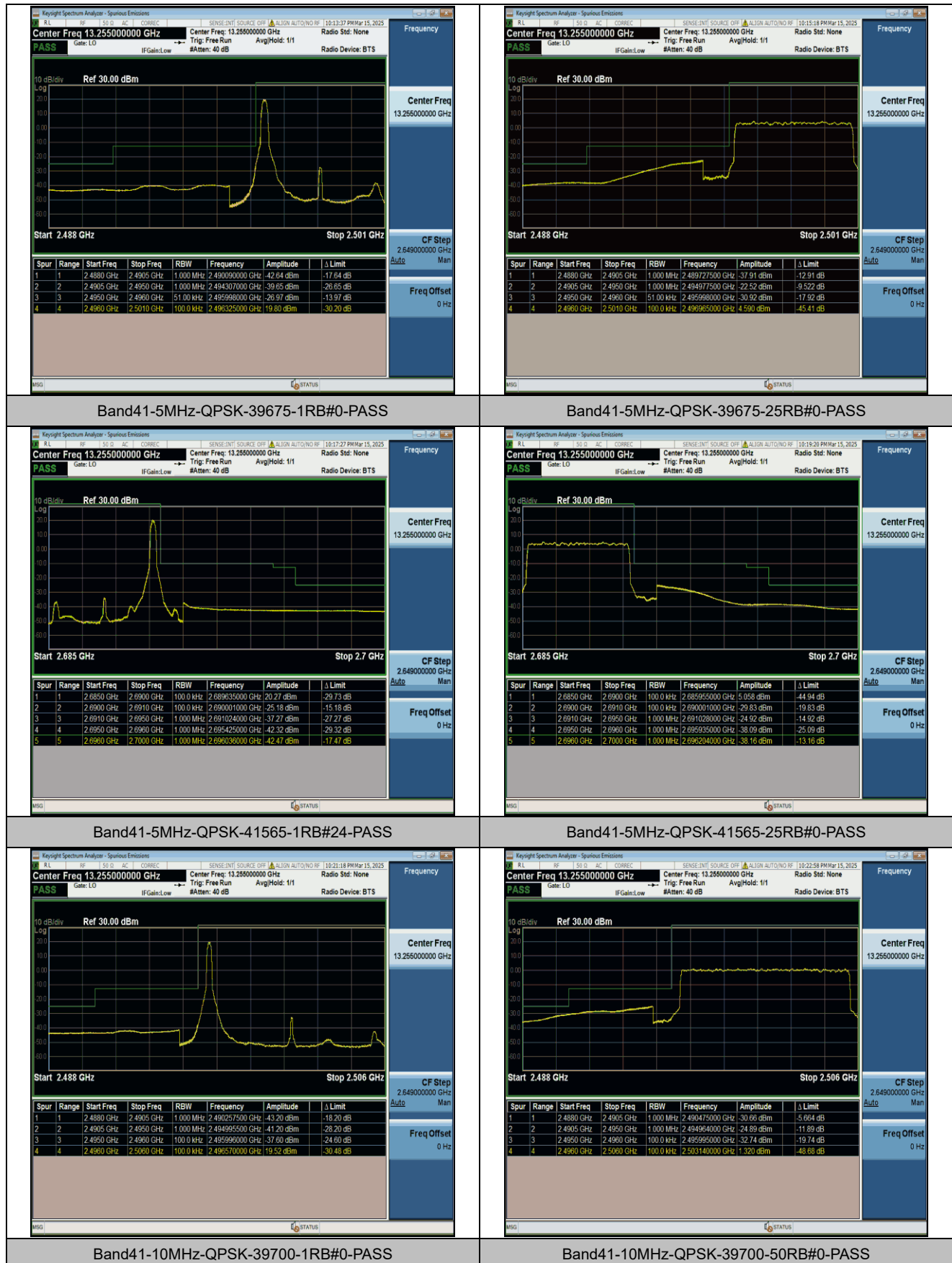


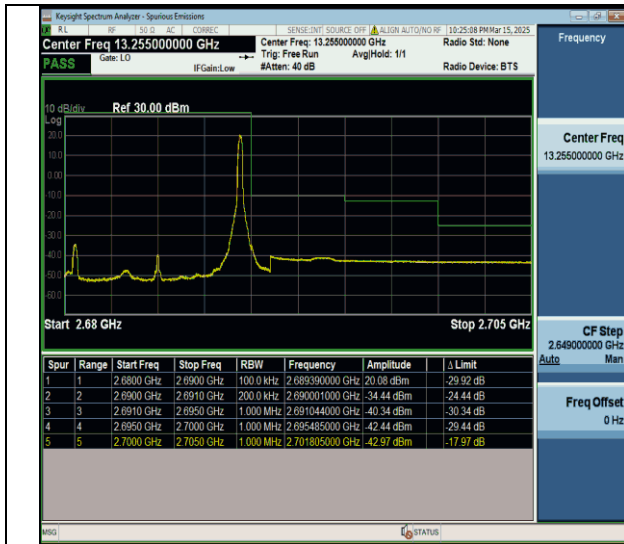




Band Edge

Test Graphs

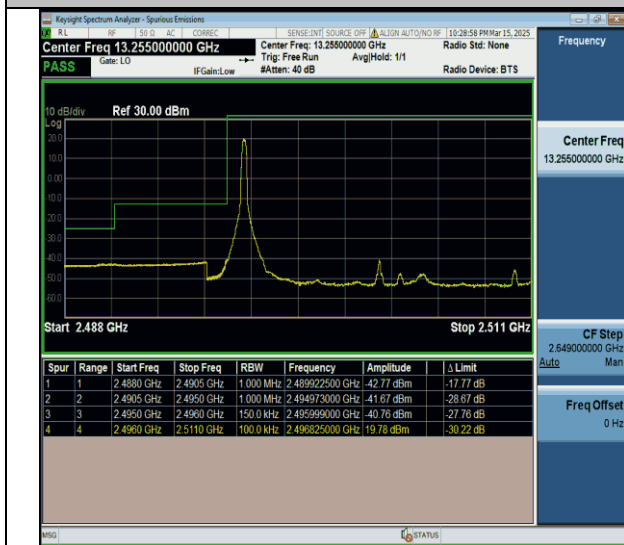




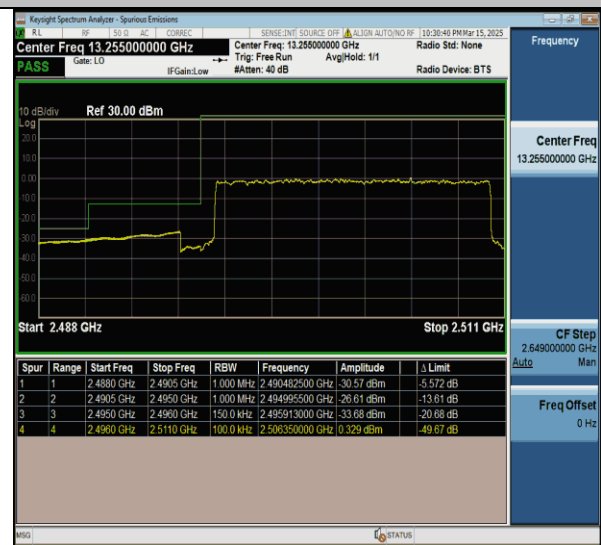
Band41-10MHz-QPSK-41540-1RB#49-PASS



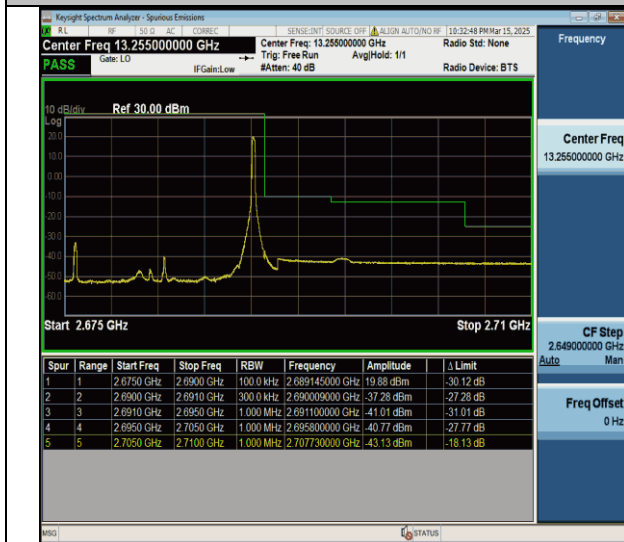
Band41-10MHz-QPSK-41540-50RB#0-PASS



Band41-15MHz-QPSK-39725-1RB#0-PASS



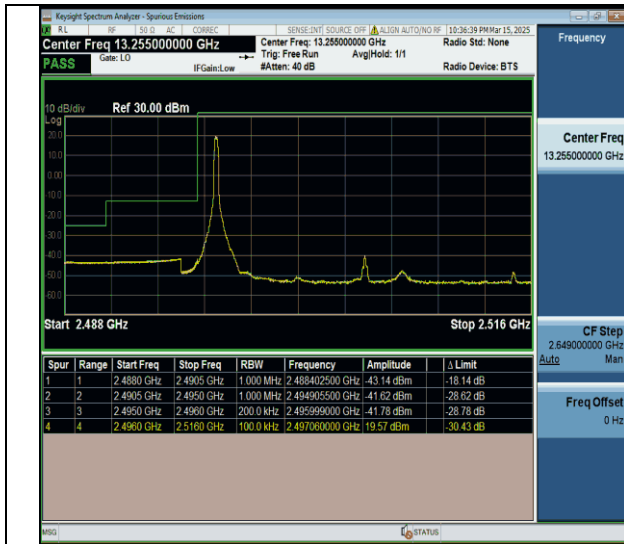
Band41-15MHz-QPSK-39725-75RB#0-PASS



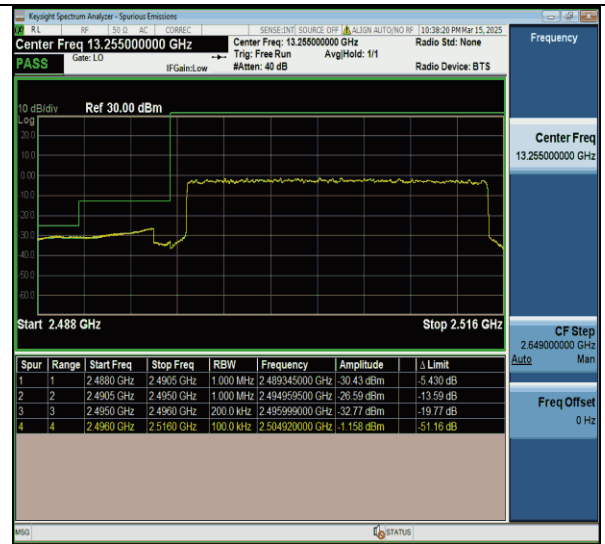
Band41-15MHz-QPSK-41515-1RB#74-PASS



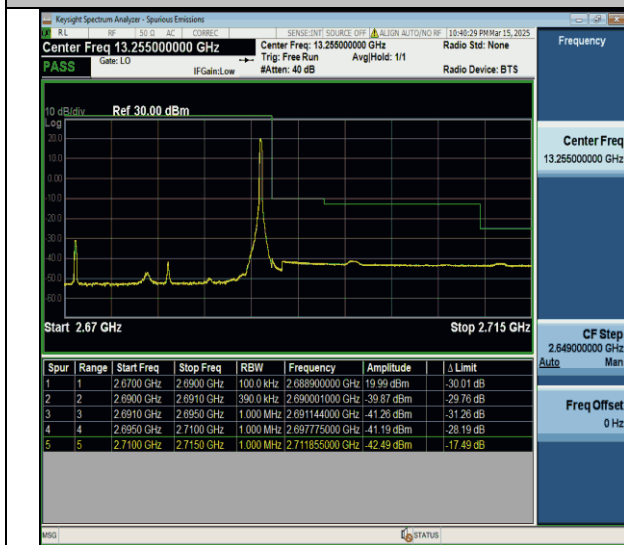
Band41-15MHz-QPSK-41515-75RB#0-PASS



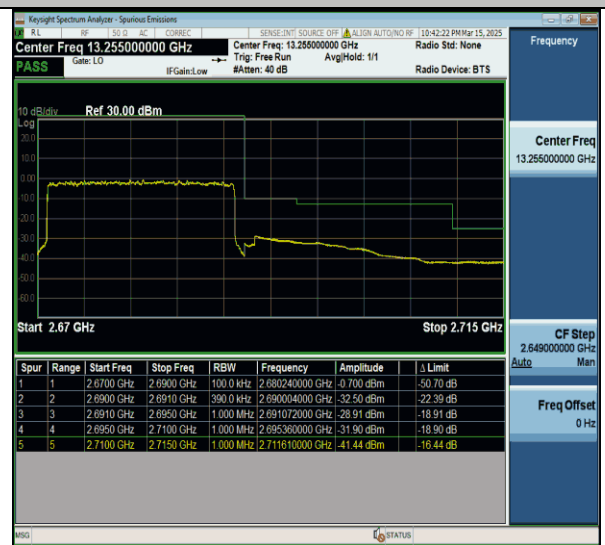
Band41-20MHz-QPSK-39750-1RB#0-PASS



Band41-20MHz-QPSK-39750-100RB#0-PASS



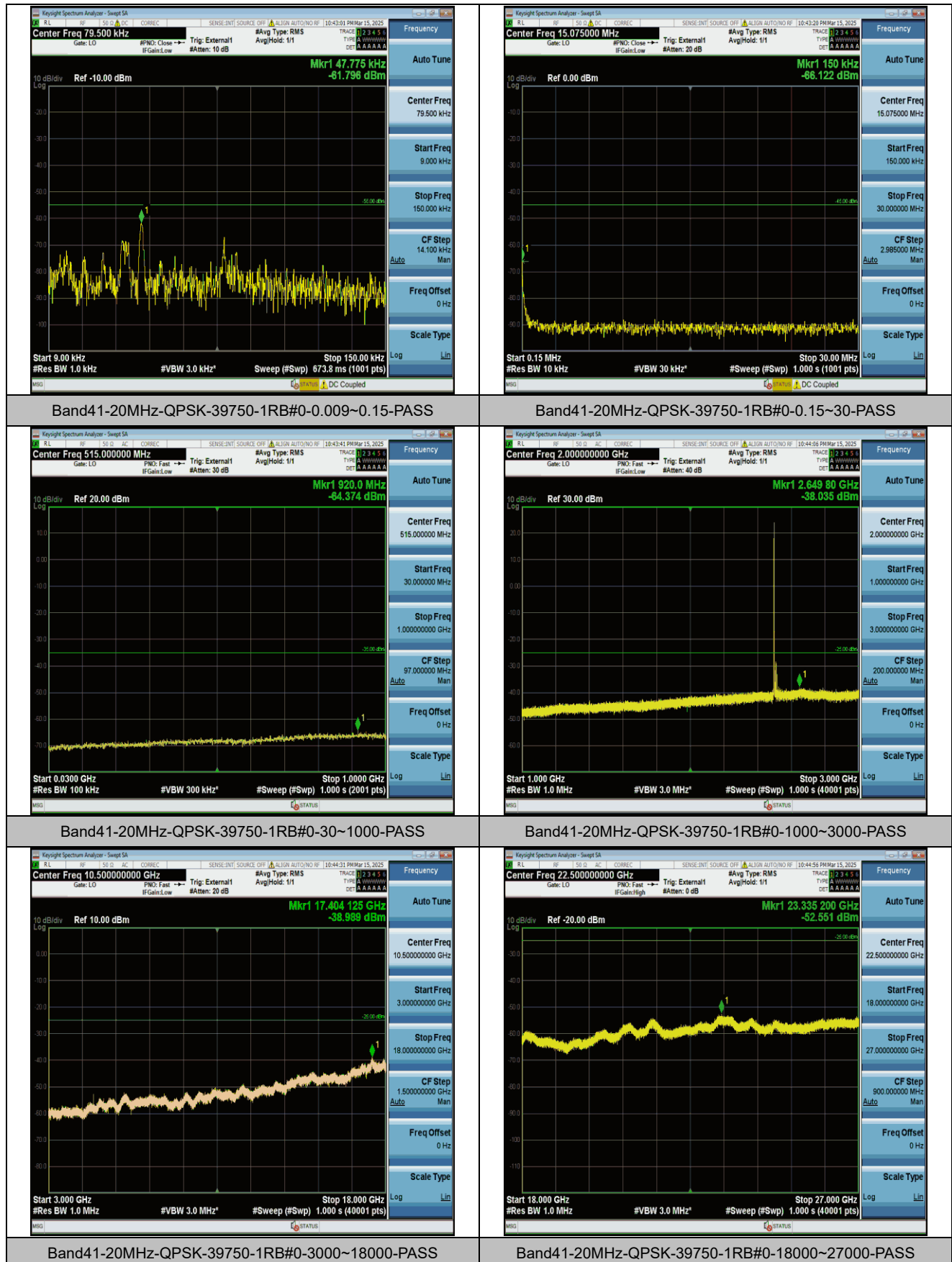
Band41-20MHz-QPSK-41490-1RB#99-PASS

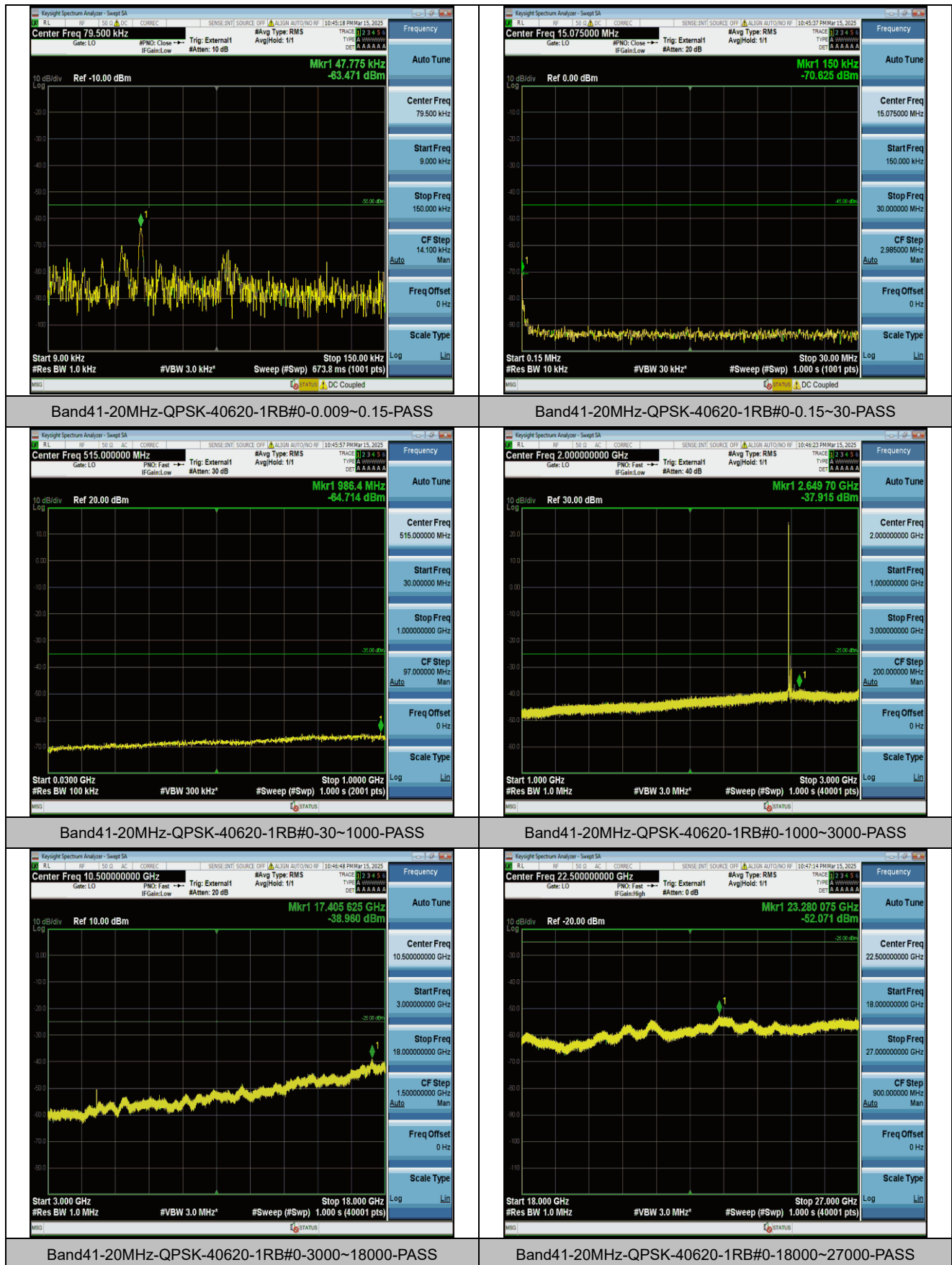


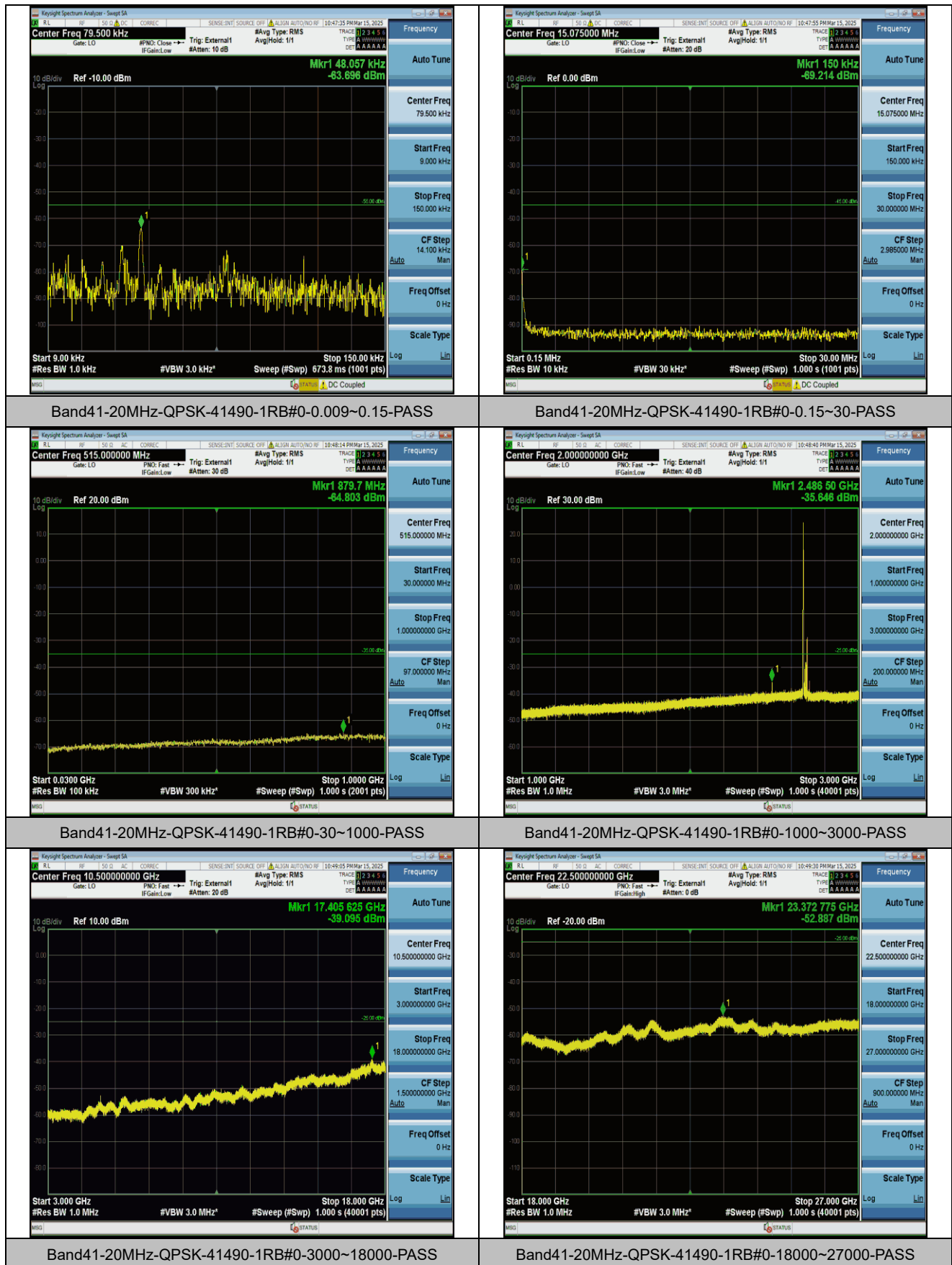
Band41-20MHz-QPSK-41490-100RB#0-PASS

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
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	7.90	0.003047	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	6.70	0.002584	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	10.50	0.004049	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	5.80	0.002237	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	11.90	0.004589	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	6.20	0.002391	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	2.40	0.000926	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	5.70	0.002198	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	7.70	0.002970	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	9.50	0.003664	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-2.50	-0.000964	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	8.40	0.003239	PASS

~The End~