

Appendix-A LTE Band 17

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	24.34	21.69	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.38	21.73	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.32	21.67	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.4	20.75	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.44	21.79	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.45	21.8	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.38	21.73	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.38	20.73	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.39	21.74	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.36	21.71	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.46	21.81	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.4	20.75	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.29	20.64	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.35	20.7	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.35	20.7	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.38	19.73	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.46	20.81	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.52	20.87	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.44	20.79	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.38	19.73	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.35	20.7	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.64	20.99	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.42	20.77	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.4	19.75	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.58	19.93	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.34	19.69	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	22.67	20.02	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	21.37	18.72	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.15	19.5	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.42	19.77	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	22.62	19.97	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	21.24	18.59	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.46	19.81	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.59	19.94	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.47	19.82	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	21.29	18.64	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	19.41	16.76	34.77	PASS

Band17	5MHz	256QAM	23755	1RB#12	19.21	16.56	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	19.14	16.49	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	19.29	16.64	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.85	16.2	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	19.49	16.84	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	19.3	16.65	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	19.2	16.55	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.79	16.14	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	19.64	16.99	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	19.61	16.96	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	19.28	16.63	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.29	21.64	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.37	21.72	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.35	21.7	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.45	20.8	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.36	21.71	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.42	21.77	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.39	21.74	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.41	20.76	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.32	21.67	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.46	21.81	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.38	21.73	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.42	20.77	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.27	20.62	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.41	20.76	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.39	20.74	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.44	19.79	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.42	20.77	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.56	20.91	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.31	20.66	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.49	19.84	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.47	20.82	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.29	20.64	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.47	20.82	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.46	19.81	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.38	19.73	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.55	19.9	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	22.48	19.83	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.36	18.71	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.48	19.83	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.48	19.83	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.24	19.59	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.37	18.72	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.42	19.77	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.45	19.8	34.77	PASS

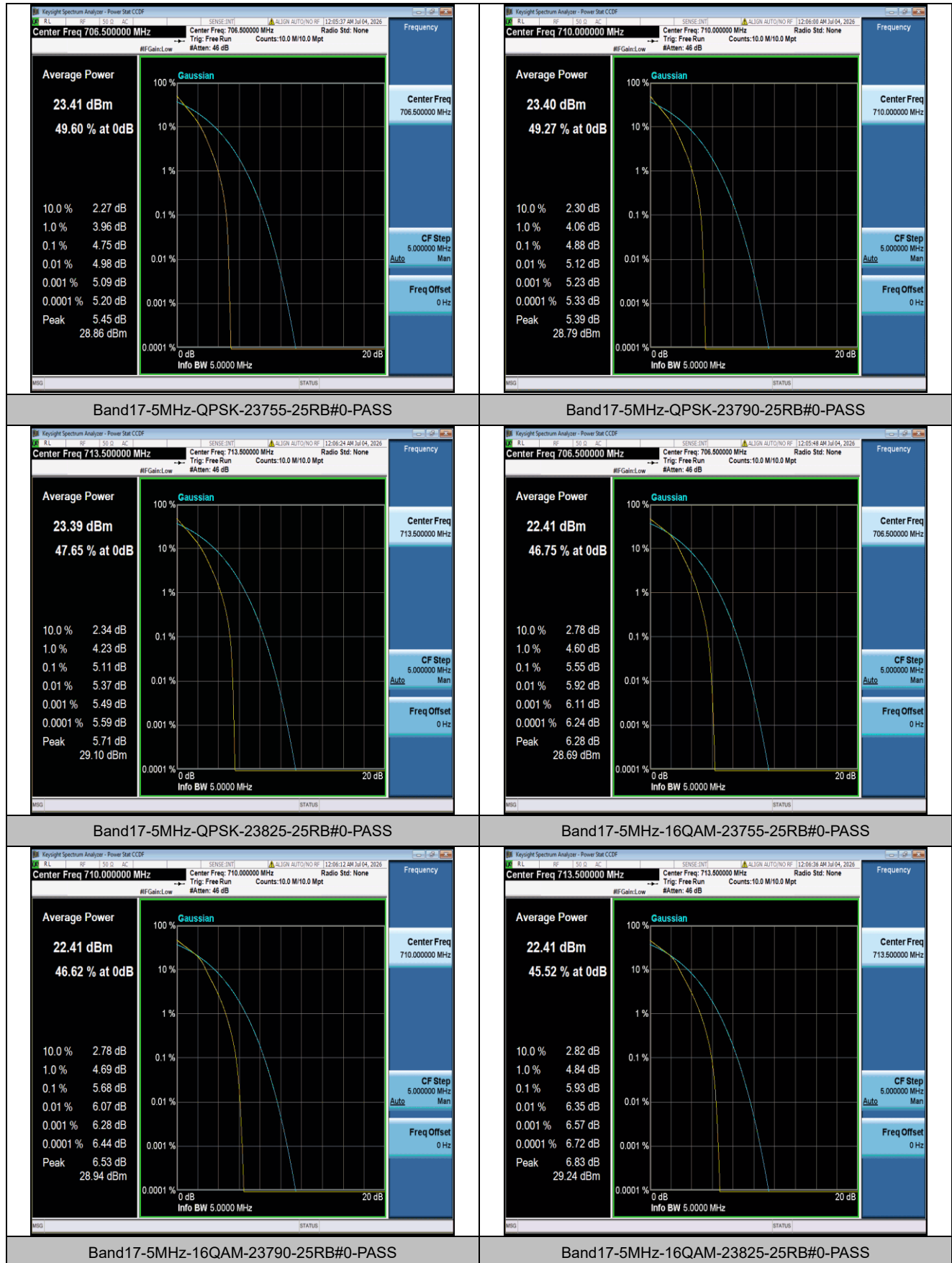
Band17	10MHz	64QAM	23800	1RB#49	22.43	19.78	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.33	18.68	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	19.26	16.61	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	19.49	16.84	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	19.19	16.54	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	19.35	16.7	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.84	16.19	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	19.49	16.84	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	19.31	16.66	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	19.26	16.61	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	18.84	16.19	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	19.13	16.48	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	19.27	16.62	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	19.15	16.5	34.77	PASS

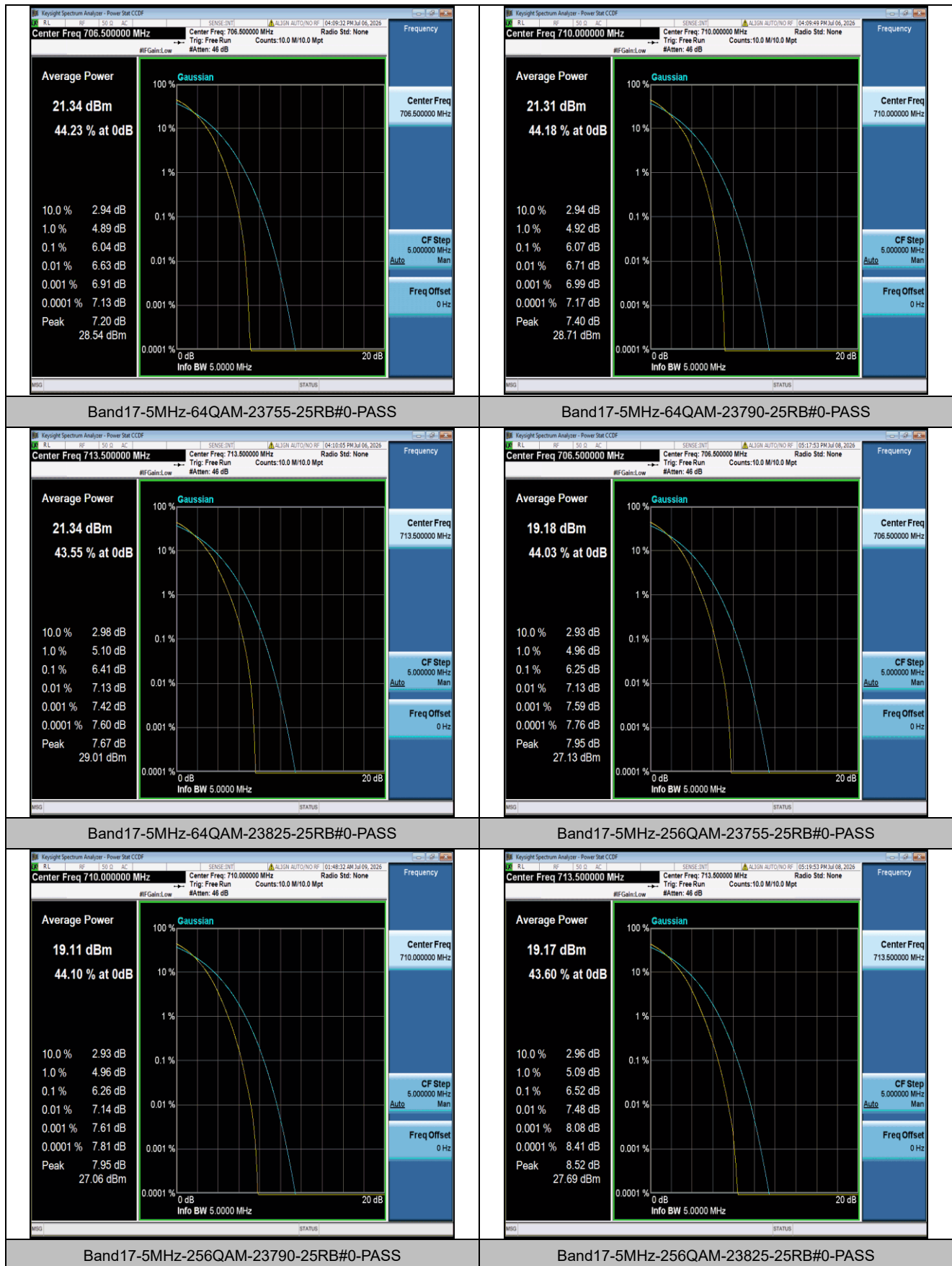
Peak-to-Average Ratio(CCDF)

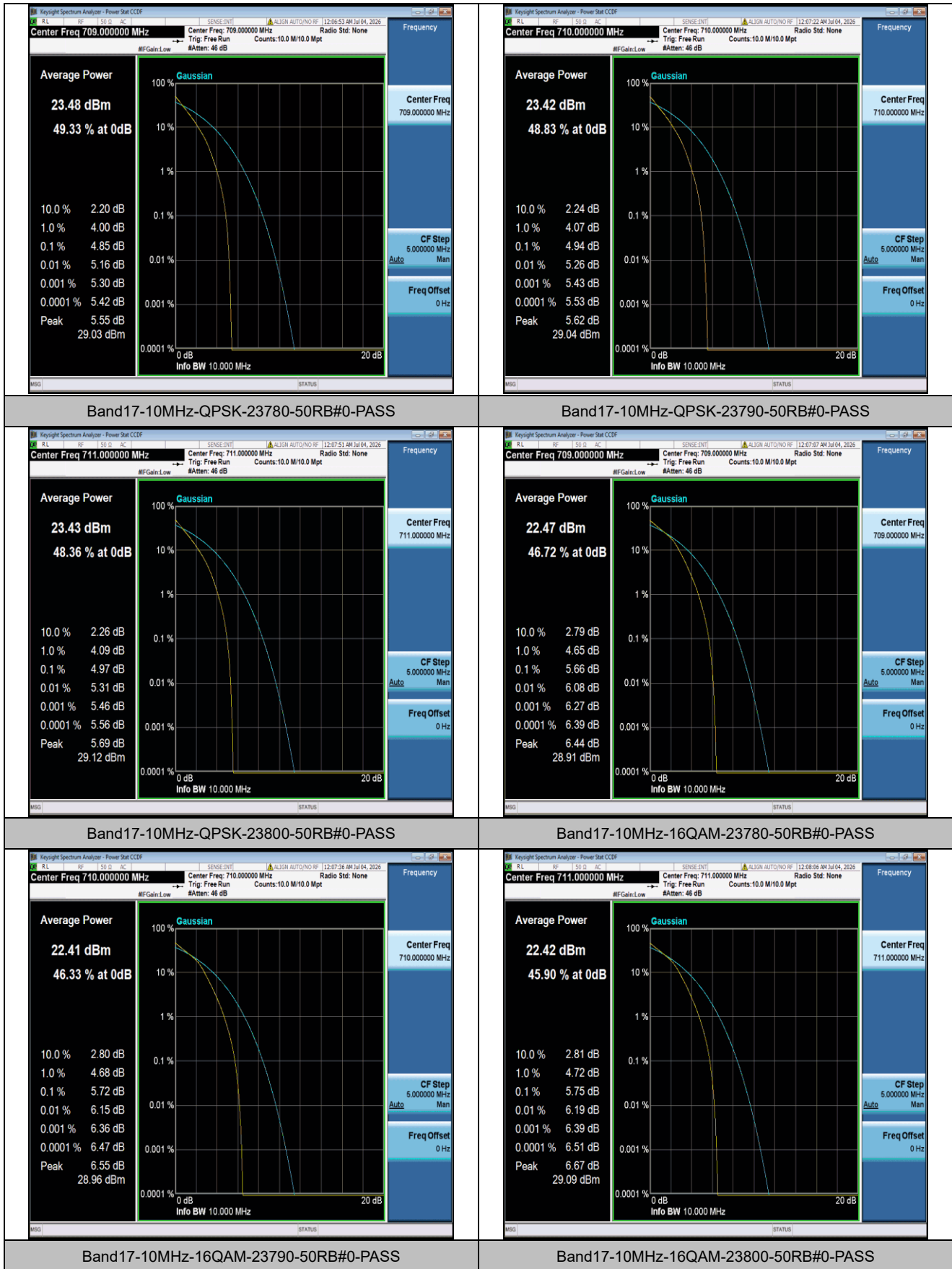
Test Result

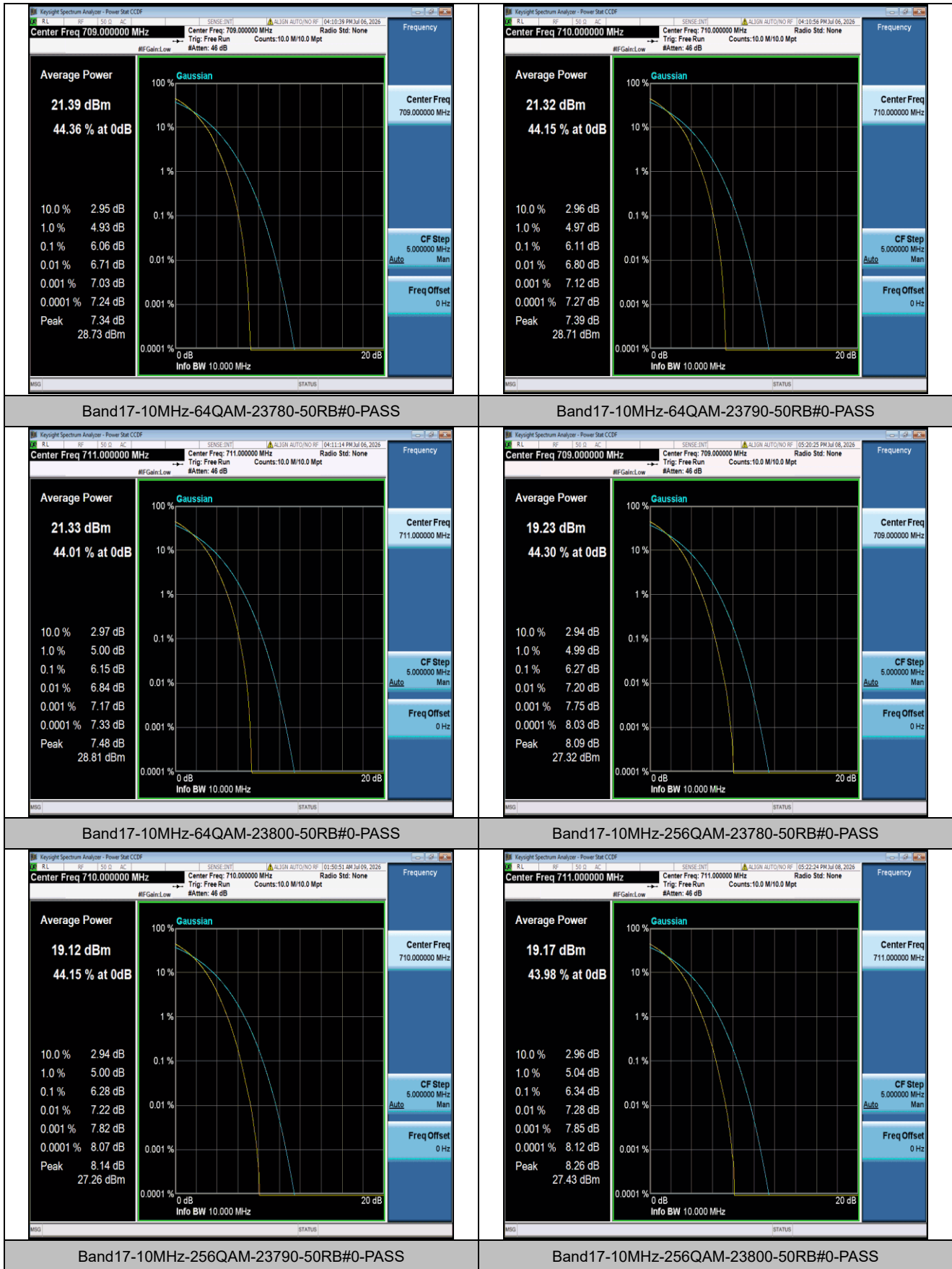
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.75	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.88	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.11	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	5.55	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	5.68	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.93	13	PASS
Band17	5MHz	64QAM	23755	25RB#0	6.04	13	PASS
Band17	5MHz	64QAM	23790	25RB#0	6.07	13	PASS
Band17	5MHz	64QAM	23825	25RB#0	6.41	13	PASS
Band17	5MHz	256QAM	23755	25RB#0	6.25	13	PASS
Band17	5MHz	256QAM	23790	25RB#0	6.26	13	PASS
Band17	5MHz	256QAM	23825	25RB#0	6.52	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	4.85	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.94	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.97	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.66	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.72	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.75	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.06	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.11	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.15	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.27	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.28	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.34	13	PASS

Test Graphs









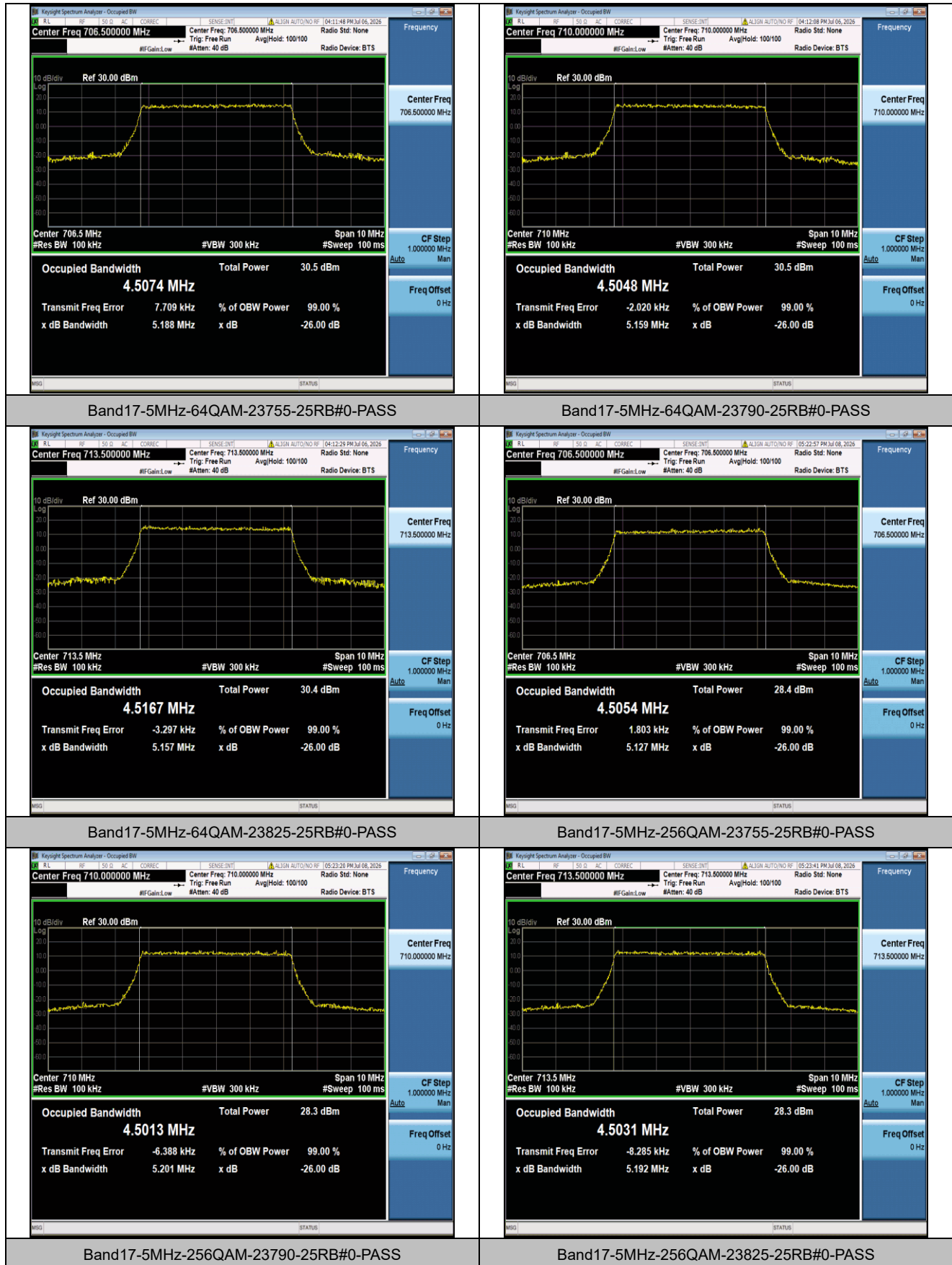
26dB Bandwidth and Occupied Bandwidth

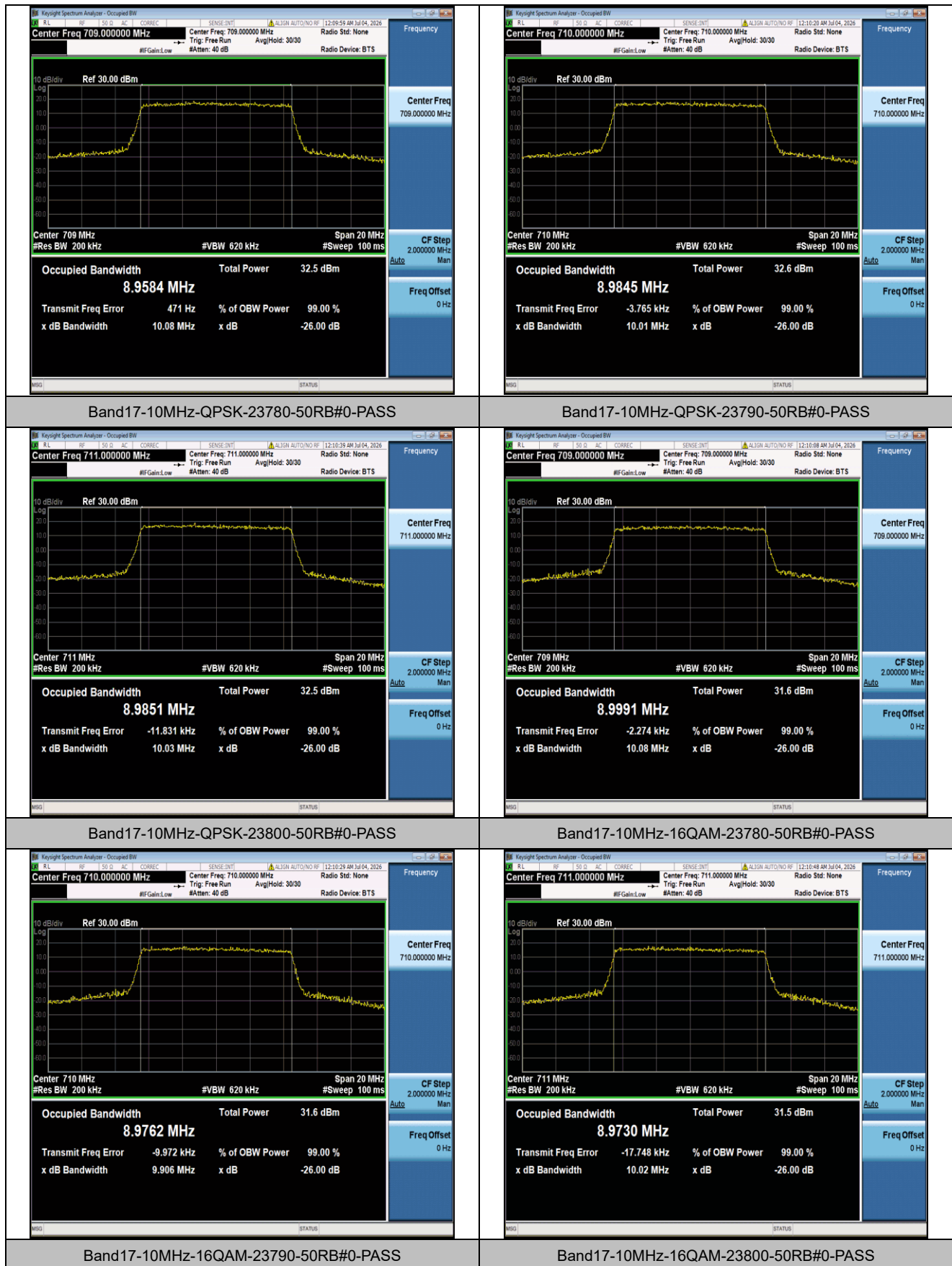
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5241	5.179	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5130	5.156	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5219	5.190	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5164	5.182	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5235	5.168	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5233	5.235	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.5074	5.188	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.5048	5.159	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.5167	5.157	PASS
Band17	5MHz	256QAM	23755	25RB#0	4.5054	5.127	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.5013	5.201	PASS
Band17	5MHz	256QAM	23825	25RB#0	4.5031	5.192	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9584	10.08	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9845	10.01	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9851	10.03	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9991	10.08	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9762	9.906	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9730	10.02	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.9760	9.901	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.9808	9.909	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.9944	10.11	PASS
Band17	10MHz	256QAM	23780	50RB#0	8.9772	9.978	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.9541	9.965	PASS
Band17	10MHz	256QAM	23800	50RB#0	8.9857	10.10	PASS

Test Graphs

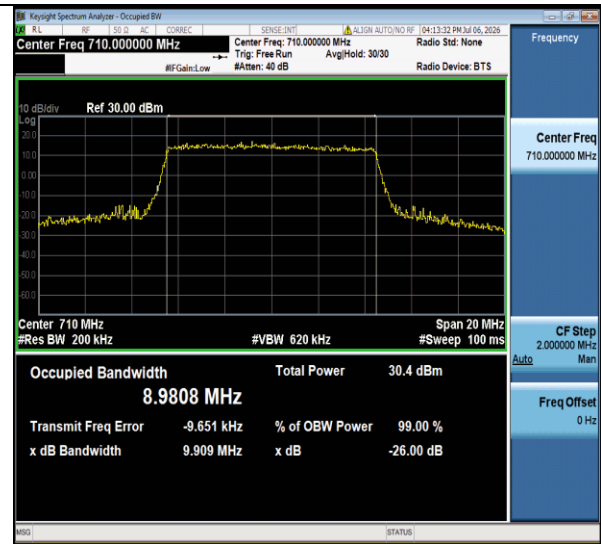








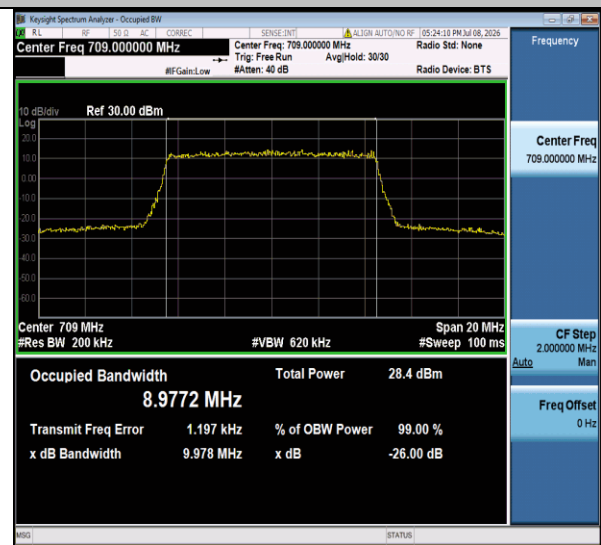
Band17-10MHz-64QAM-23780-50RB#0-PASS



Band17-10MHz-64QAM-23790-50RB#0-PASS



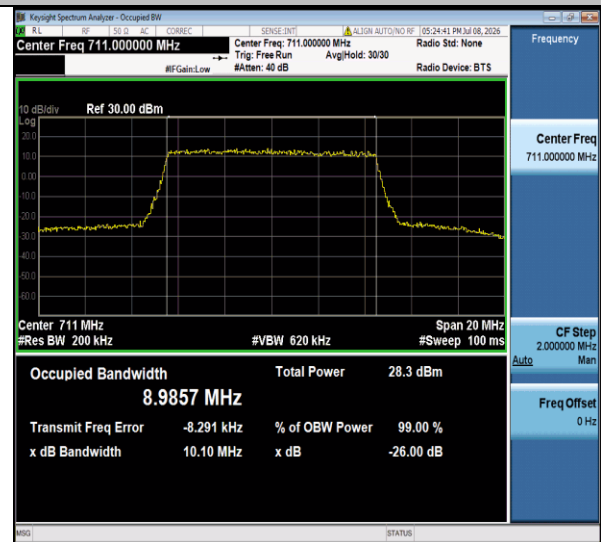
Band17-10MHz-64QAM-23800-50RB#0-PASS



Band17-10MHz-256QAM-23780-50RB#0-PASS



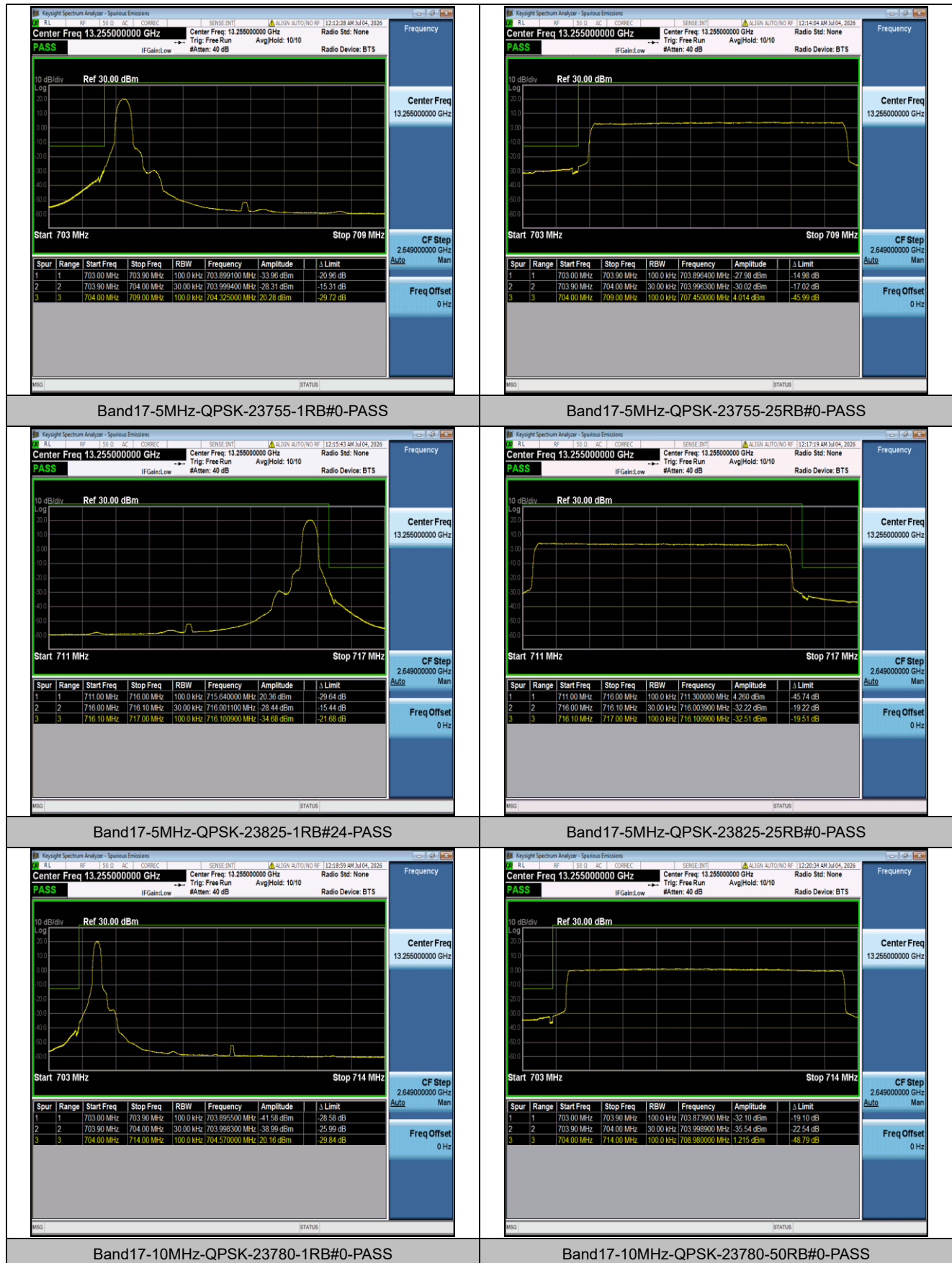
Band17-10MHz-256QAM-23790-50RB#0-PASS

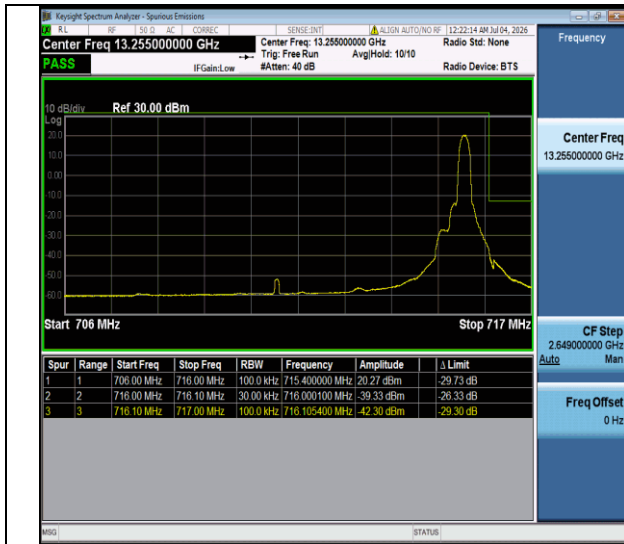


Band17-10MHz-256QAM-23800-50RB#0-PASS

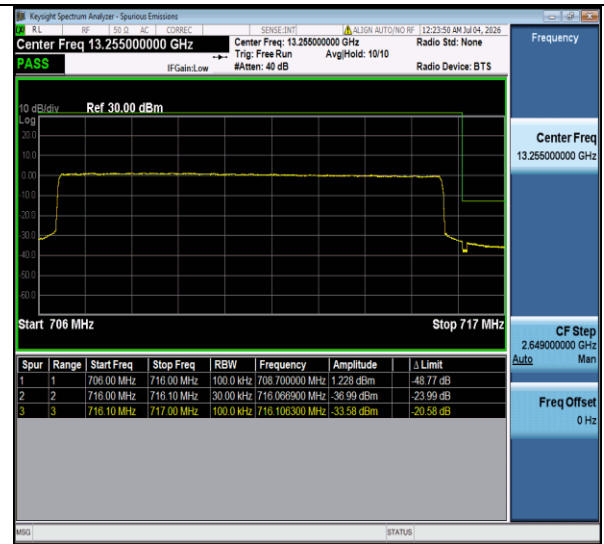
Band Edge

Test Graphs





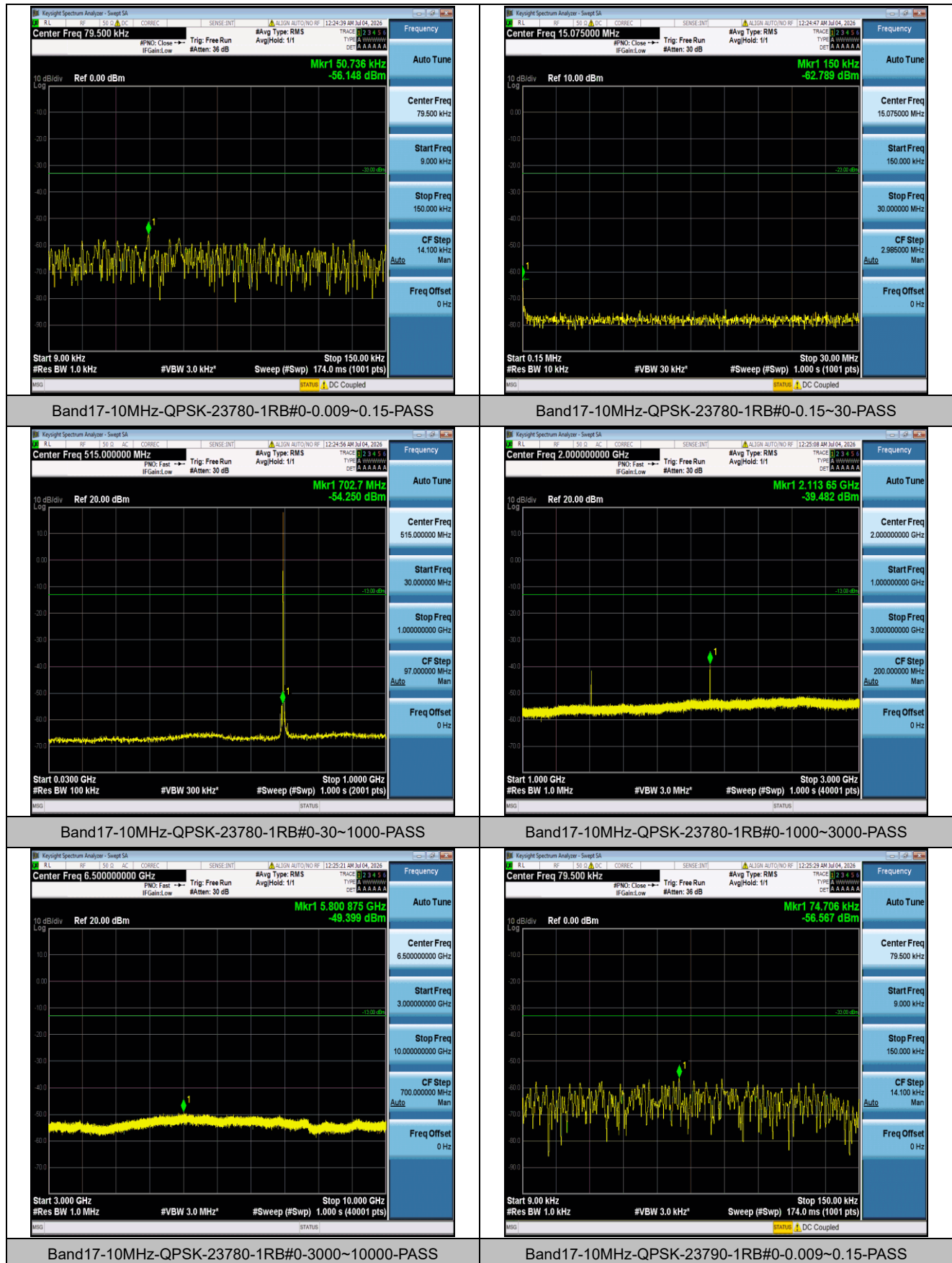
Band17-10MHz-QPSK-23800-1RB#49-PASS

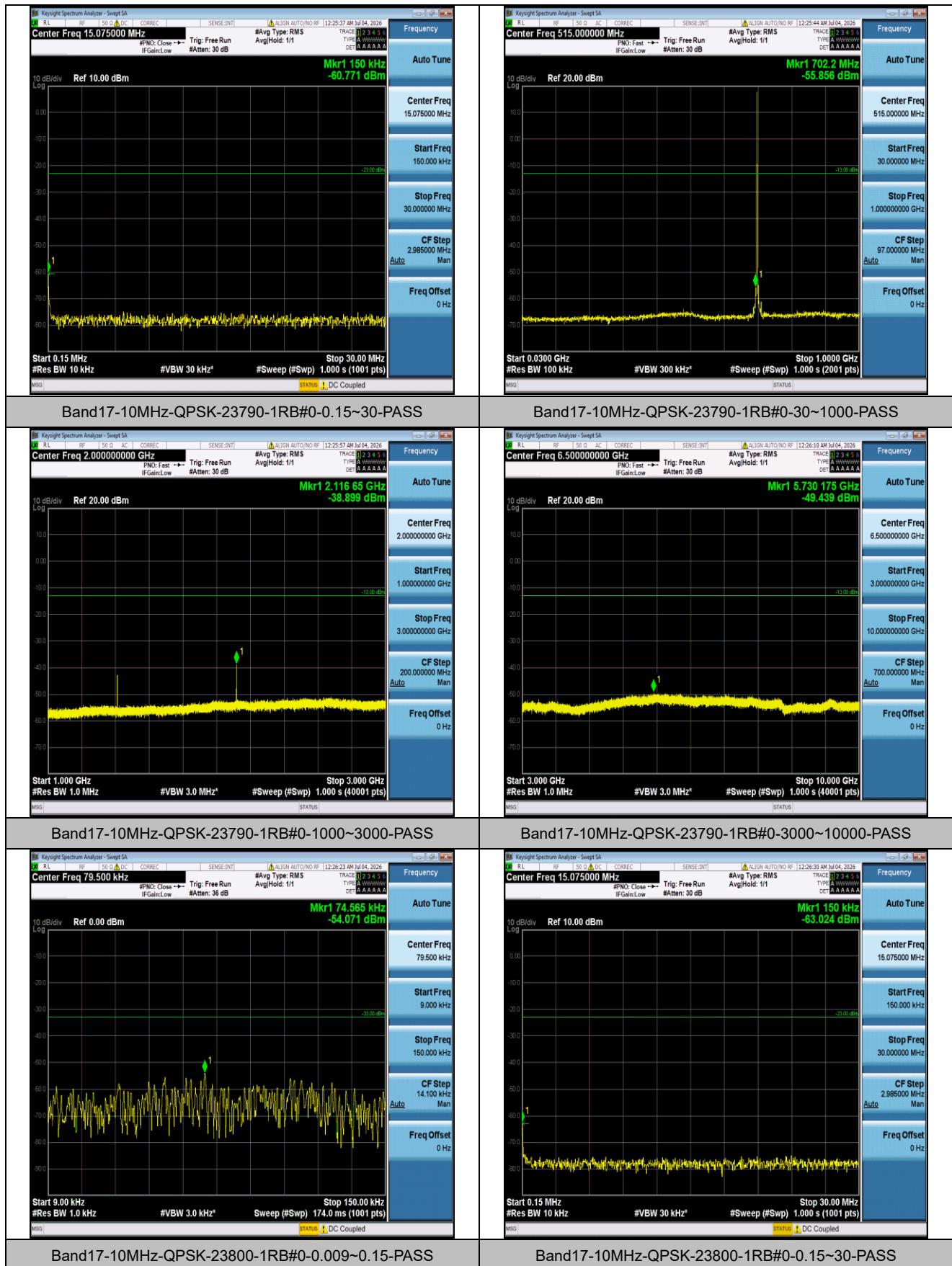


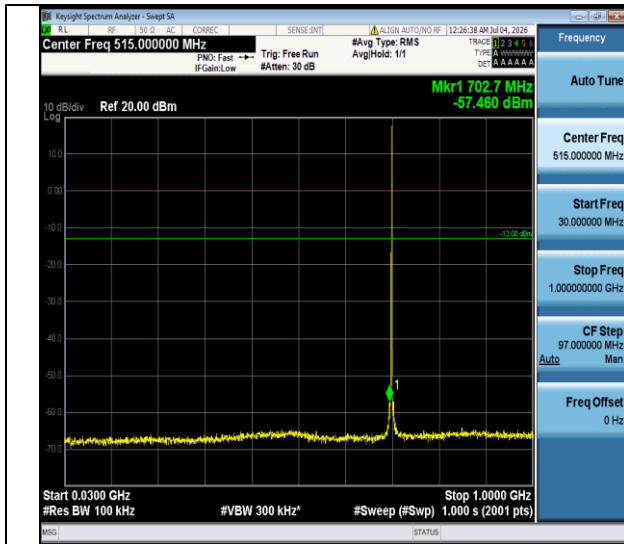
Band17-10MHz-QPSK-23800-50RB#0-PASS

Conducted Spurious Emission

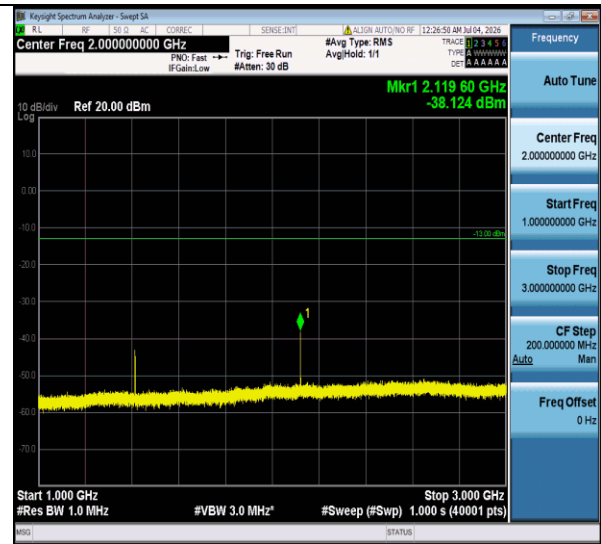
Test Graphs



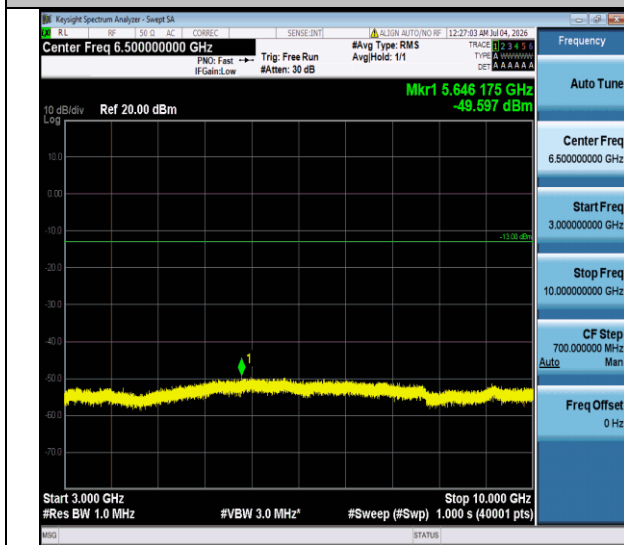




Band17-10MHz-QPSK-23800-1RB#0-30~1000-PASS



Band17-10MHz-QPSK-23800-1RB#0-1000~3000-PASS



Band17-10MHz-QPSK-23800-1RB#0-3000~10000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-2.85	-0.004014	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-2.74	-0.003859	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-1.45	-0.002042	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-2.67	-0.003761	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-2.53	-0.003563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	1.42	0.002000	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-2.41	-0.003394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-2.41	-0.003394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-1.95	-0.002746	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-2.03	-0.002859	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-3.61	-0.005085	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-2.86	-0.004028	PASS

~The End~