

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	23.73	21.08	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.8	21.15	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.69	21.04	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.06	20.41	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.17	20.52	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.07	20.42	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.98	20.33	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.03	19.38	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.1	19.45	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.3	19.65	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	22.03	19.38	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.95	18.3	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	19.12	16.47	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	19.06	16.41	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.83	16.18	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	19.03	16.38	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.8	21.15	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.78	21.13	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.64	20.99	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.01	20.36	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.99	20.34	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.07	20.42	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.4	20.75	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.11	19.46	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.32	19.67	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.17	19.52	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	22.07	19.42	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.9	18.25	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	19.13	16.48	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	19.07	16.42	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.68	16.03	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.84	16.19	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.78	21.13	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.78	21.13	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.79	21.14	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.97	20.32	34.77	PASS

Band17	5MHz	16QAM	23825	1RB#0	23.04	20.39	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.01	20.36	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.04	20.39	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.93	19.28	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.15	19.5	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.93	19.28	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.21	19.56	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.97	18.32	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	19.12	16.47	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.86	16.21	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	19.04	16.39	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	18.85	16.2	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.83	21.18	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.8	21.15	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.63	20.98	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.23	20.58	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.27	20.62	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.14	20.49	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.99	20.34	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.2	19.55	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.36	19.71	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.39	19.74	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.94	19.29	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.11	18.46	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	19.4	16.75	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	19.04	16.39	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	19.5	16.85	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	19.15	16.5	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.79	21.14	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.77	21.12	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.75	21.1	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.25	20.6	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.88	20.23	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.99	20.34	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.14	20.49	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.1	19.45	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.07	19.42	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.25	19.6	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.91	19.26	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.07	18.42	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	19.52	16.87	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	19.33	16.68	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	19.54	16.89	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	19.12	16.47	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.81	21.16	34.77	PASS

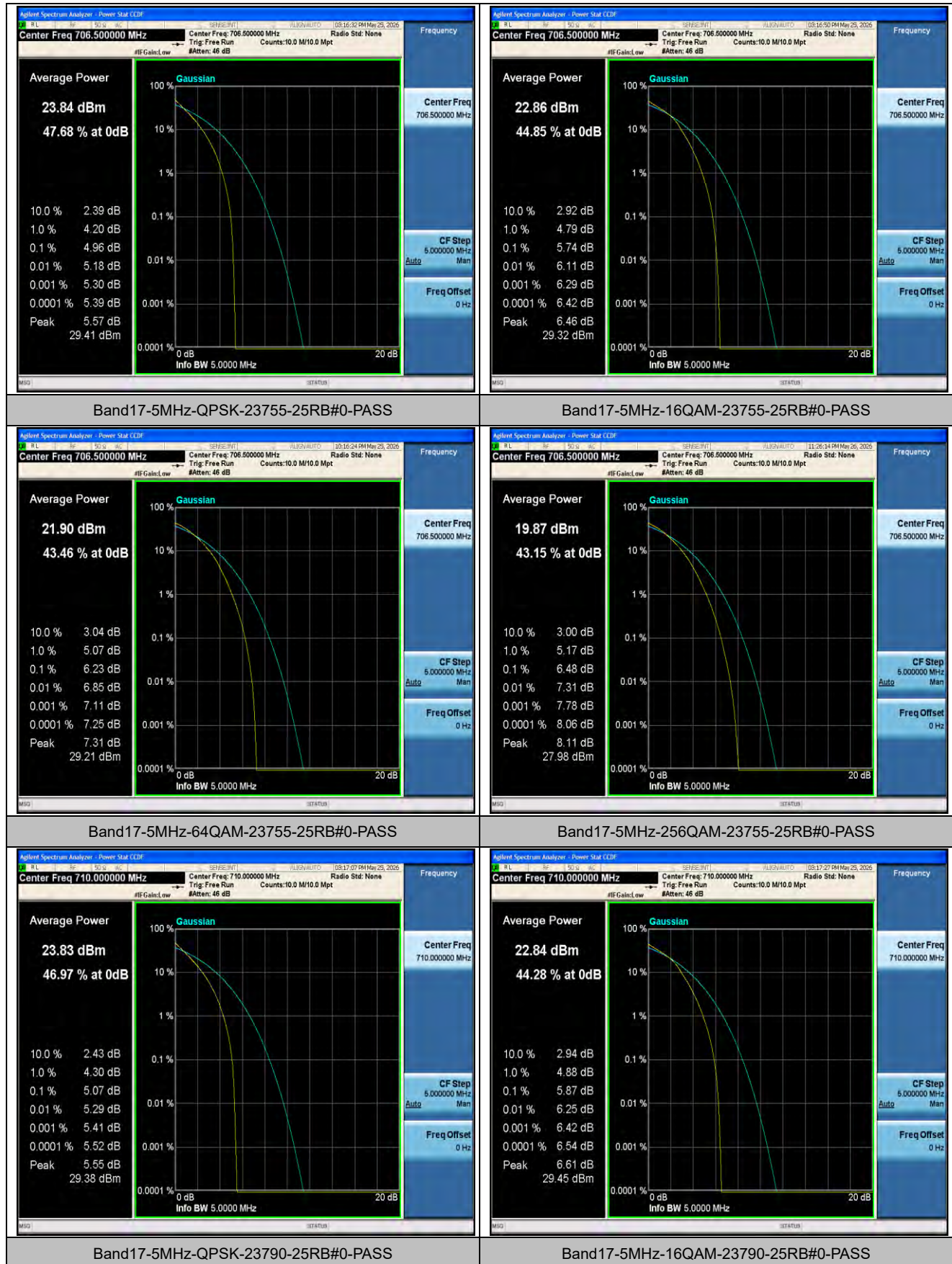
Band17	10MHz	QPSK	23800	1RB#24	23.75	21.1	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.7	21.05	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.11	20.46	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.12	20.47	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.11	20.46	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.98	20.33	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.19	19.54	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.1	19.45	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.2	19.55	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.9	19.25	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.99	18.34	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	19.21	16.56	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	19.01	16.36	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	19.21	16.56	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	19.04	16.39	34.77	PASS

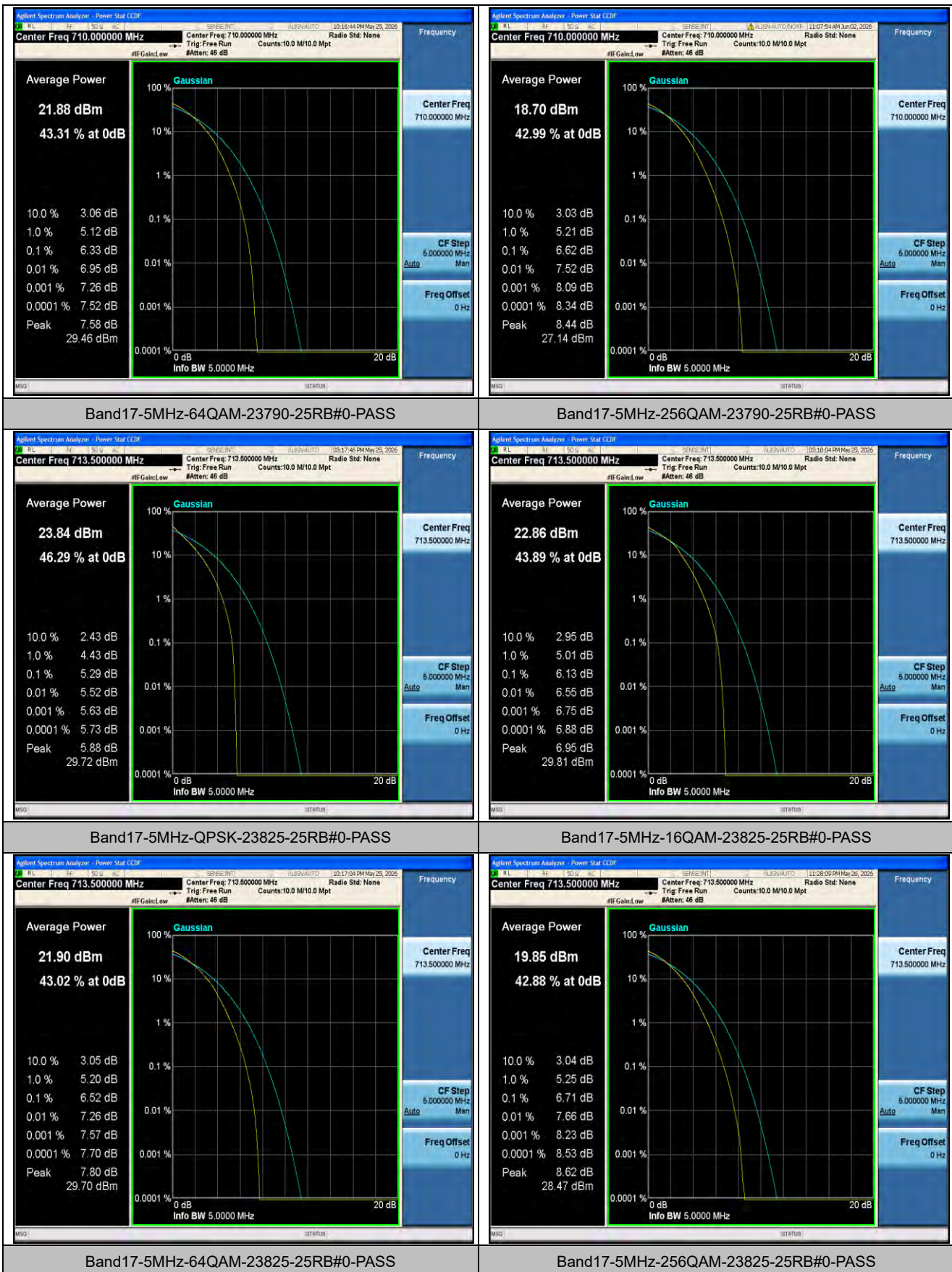
Peak-to-Average Ratio(CCDF)

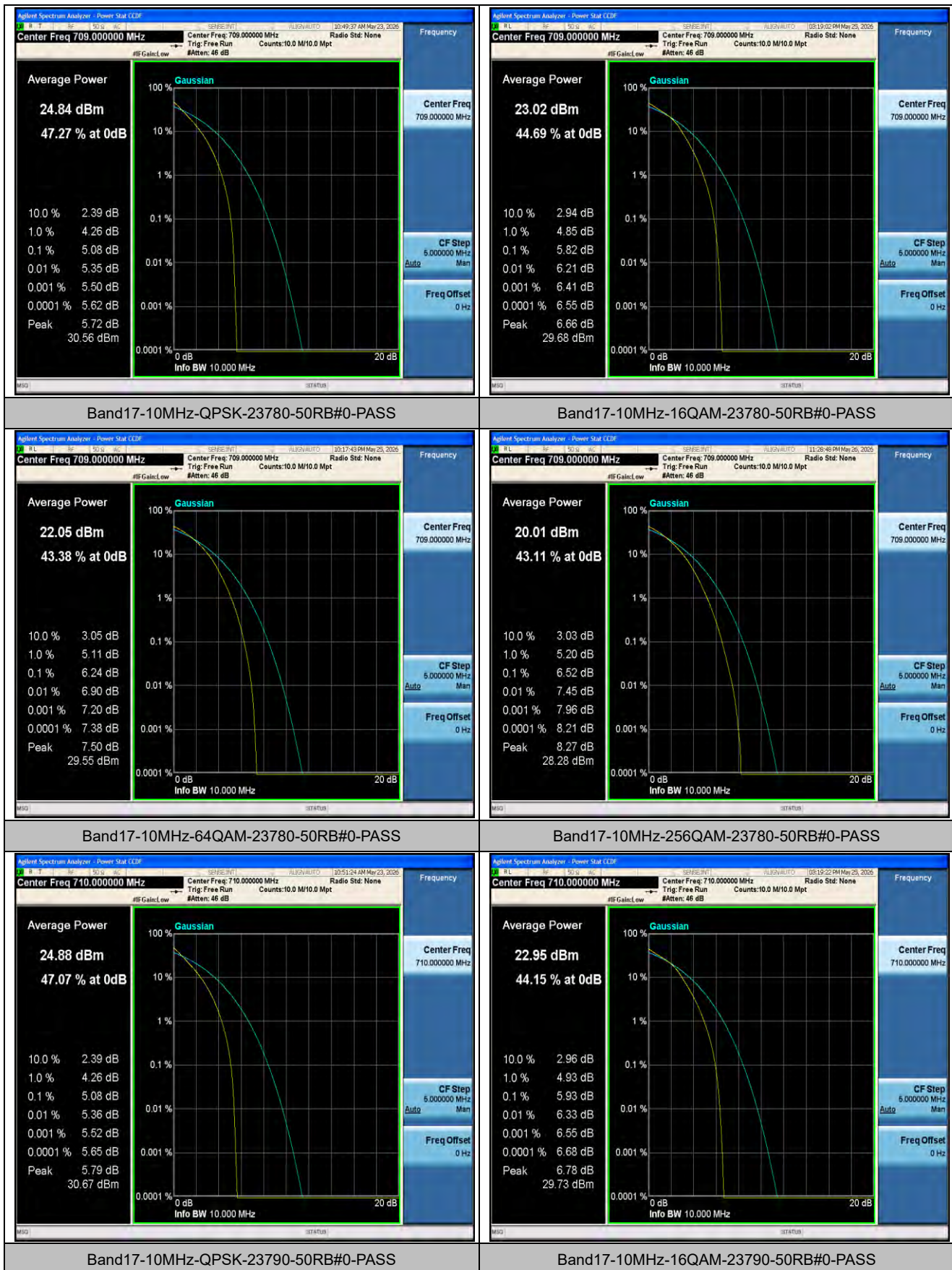
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.96	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	5.74	13	PASS
Band17	5MHz	64QAM	23755	25RB#0	6.23	13	PASS
Band17	5MHz	256QAM	23755	25RB#0	6.48	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.07	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	5.87	13	PASS
Band17	5MHz	64QAM	23790	25RB#0	6.33	13	PASS
Band17	5MHz	256QAM	23790	25RB#0	6.62	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.29	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.13	13	PASS
Band17	5MHz	64QAM	23825	25RB#0	6.52	13	PASS
Band17	5MHz	256QAM	23825	25RB#0	6.71	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.08	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.82	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.24	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.52	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.08	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.93	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.35	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.55	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.15	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.99	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.41	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.60	13	PASS

Test Graphs









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



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



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



Band17-10MHz-16QAM-23800-50RB#0-PASS



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



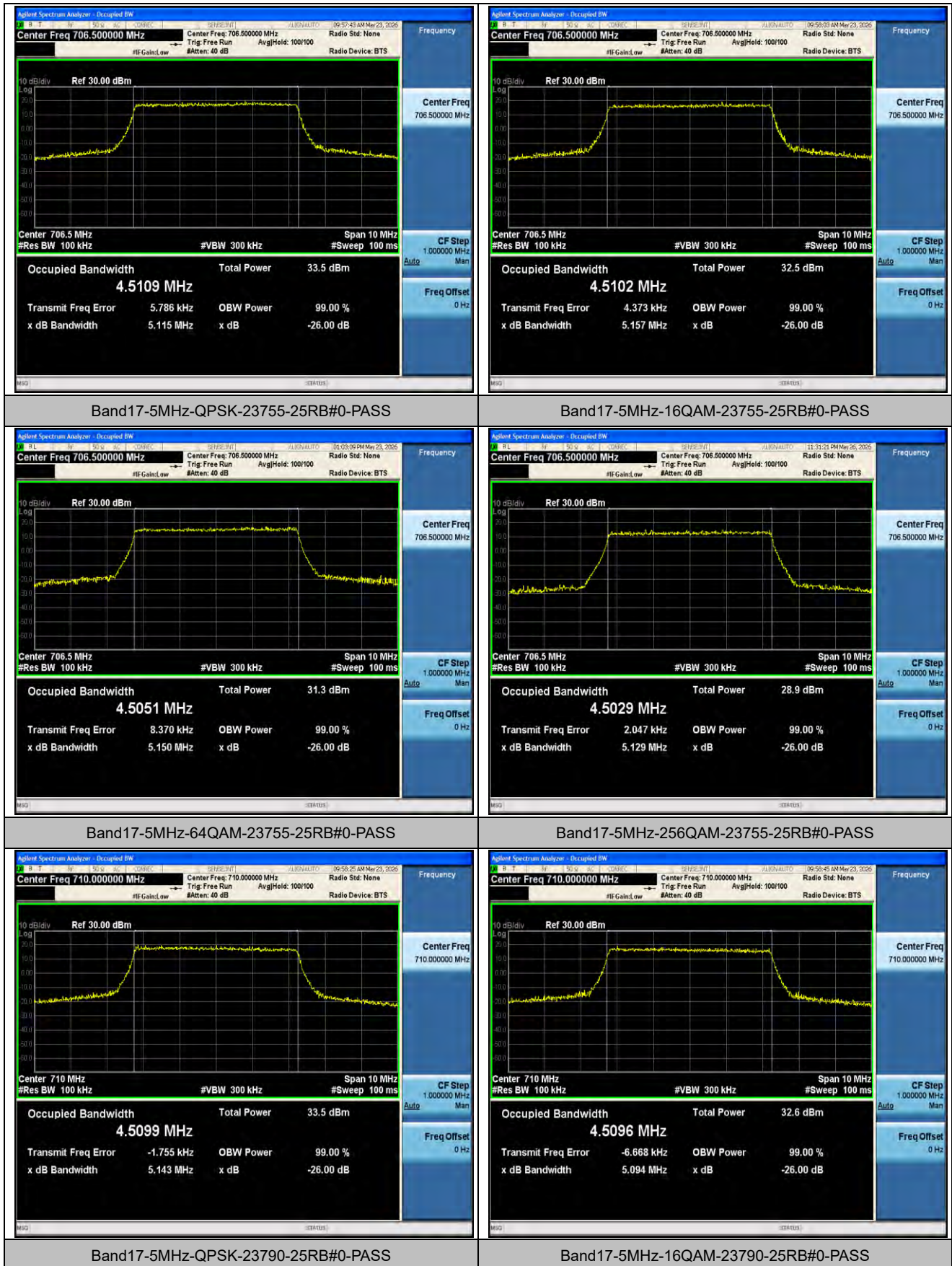
Band17-10MHz-256QAM-23800-50RB#0-PASS

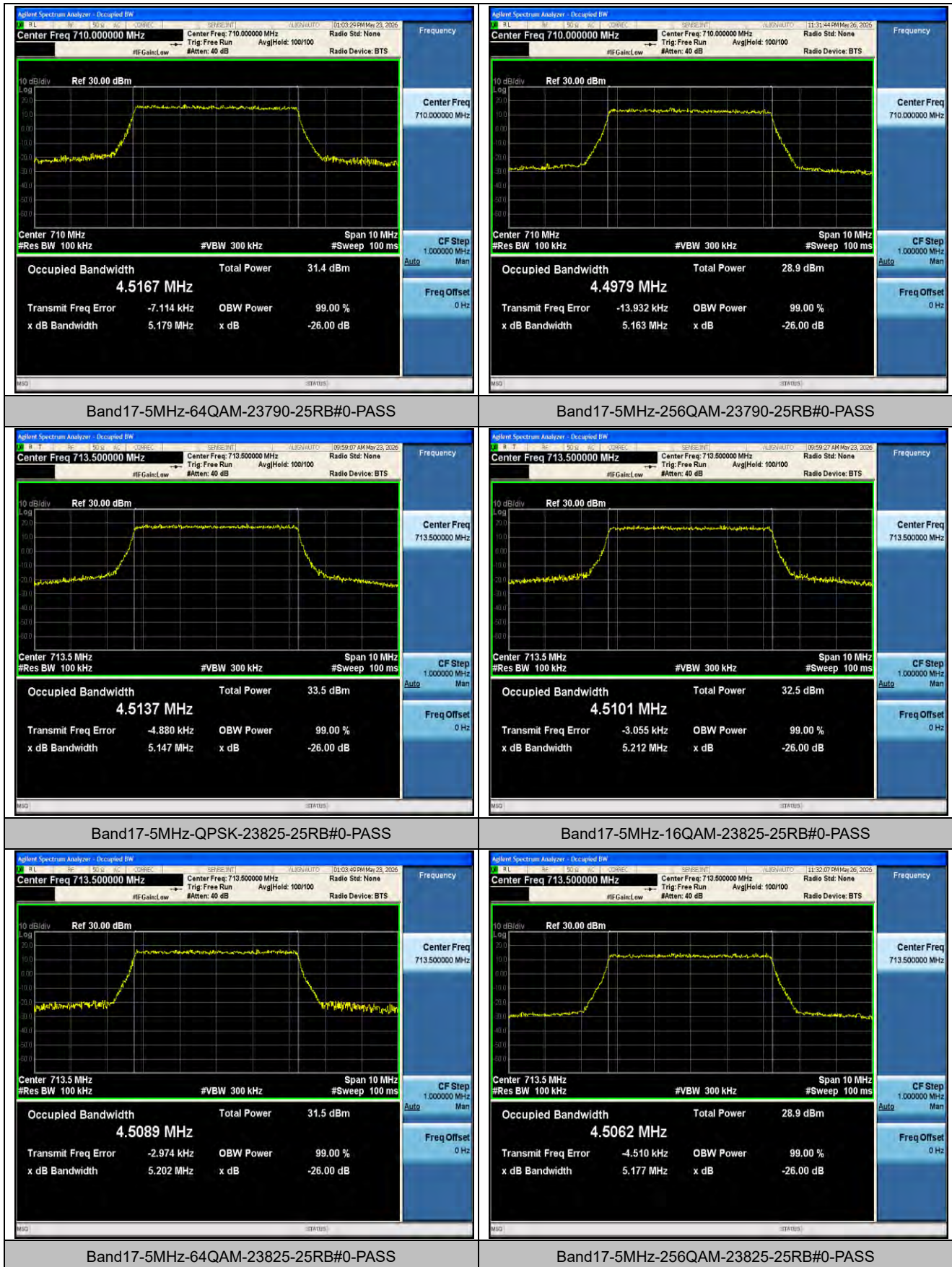
26dB Bandwidth and Occupied Bandwidth

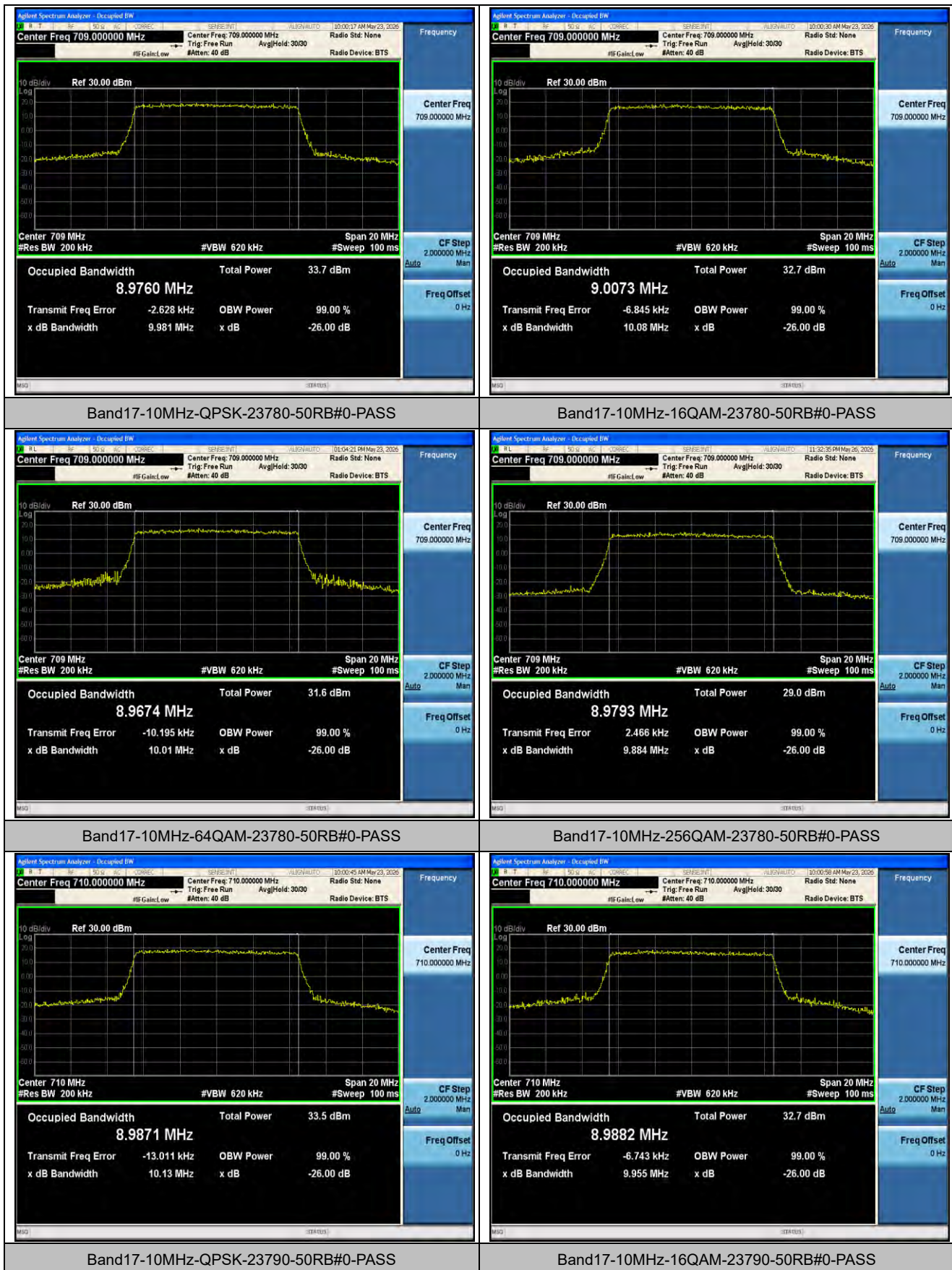
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5109	5.115	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5102	5.157	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.5051	5.150	PASS
Band17	5MHz	256QAM	23755	25RB#0	4.5029	5.129	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5099	5.143	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5096	5.094	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.5167	5.179	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.4979	5.163	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5137	5.147	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5101	5.212	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.5089	5.202	PASS
Band17	5MHz	256QAM	23825	25RB#0	4.5062	5.177	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9760	9.981	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0073	10.08	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.9674	10.01	PASS
Band17	10MHz	256QAM	23780	50RB#0	8.9793	9.884	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9871	10.13	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9882	9.955	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.9806	9.995	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.9789	10.03	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9871	10.11	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9837	10.06	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.9949	10.03	PASS
Band17	10MHz	256QAM	23800	50RB#0	8.9962	10.01	PASS

Test Graphs









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



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



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



Band17-10MHz-16QAM-23800-50RB#0-PASS



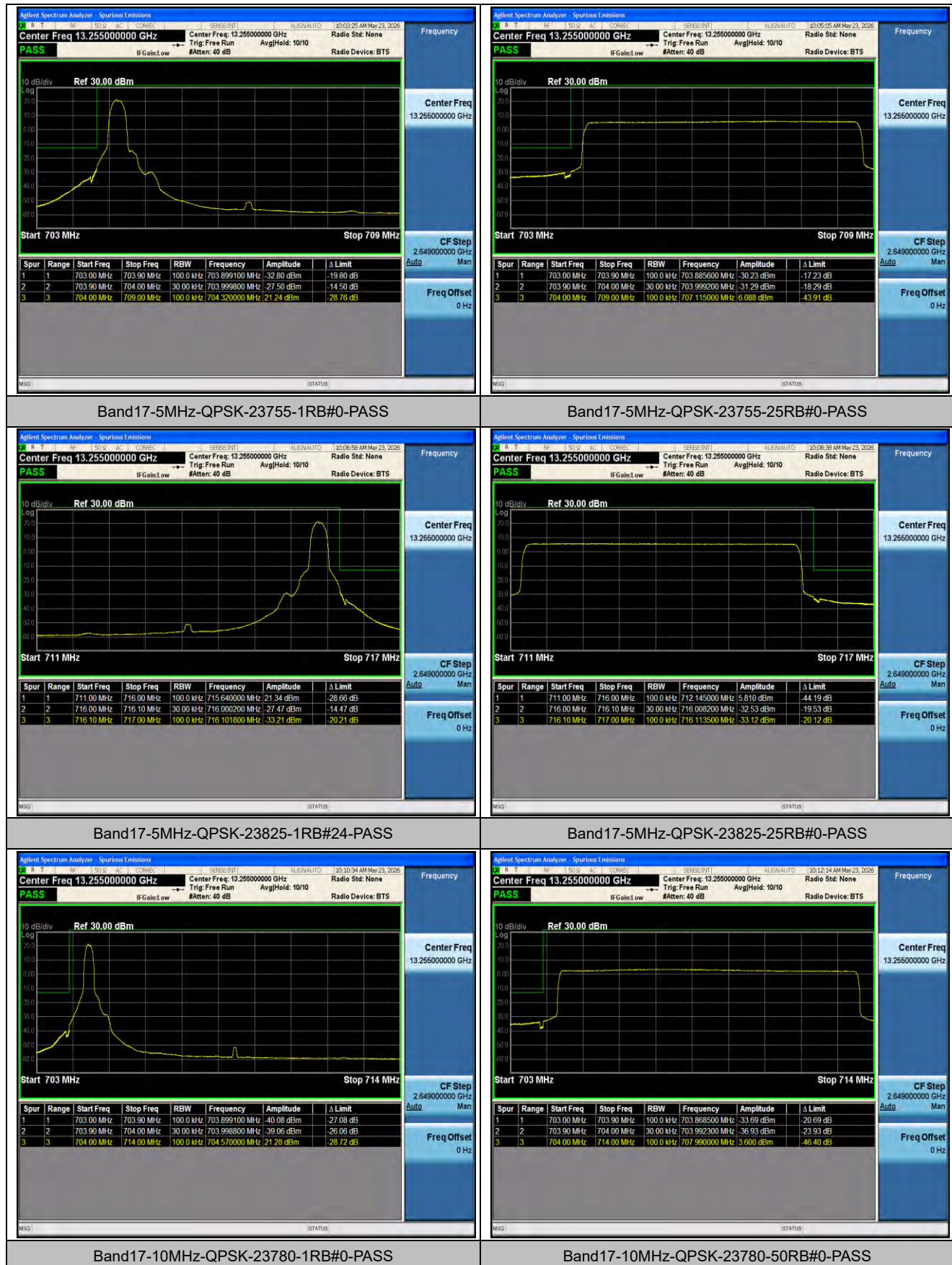
Band17-10MHz-64QAM-23800-50RB#0-PASS

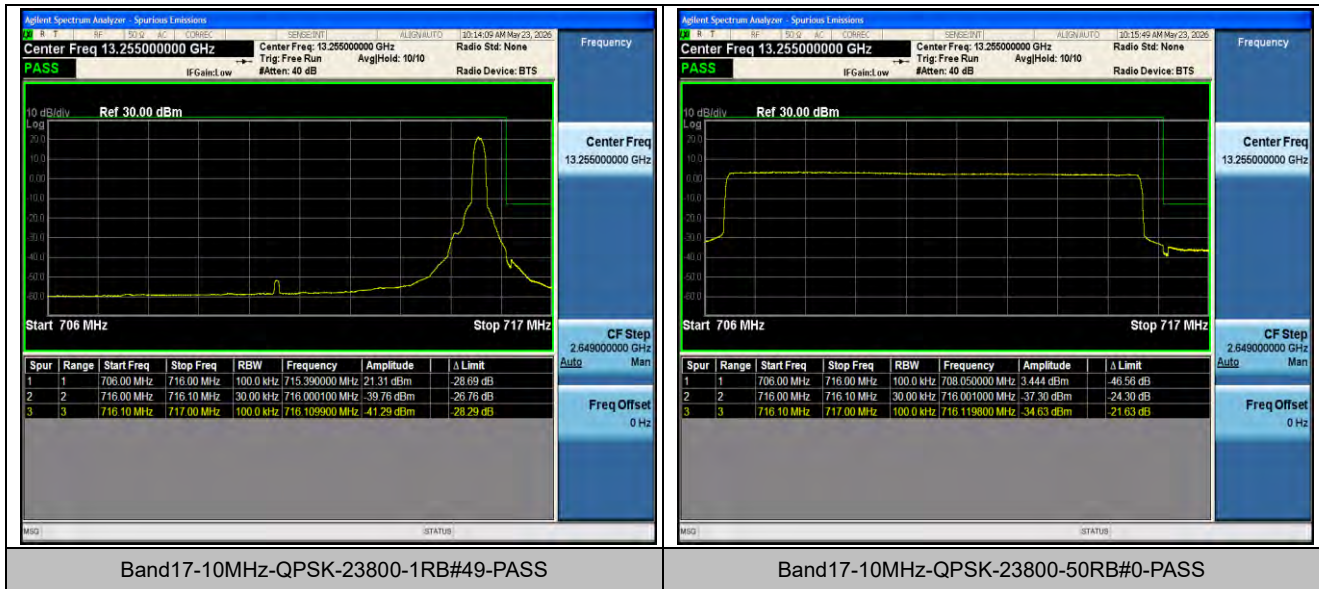


Band17-10MHz-256QAM-23800-50RB#0-PASS

Band Edge

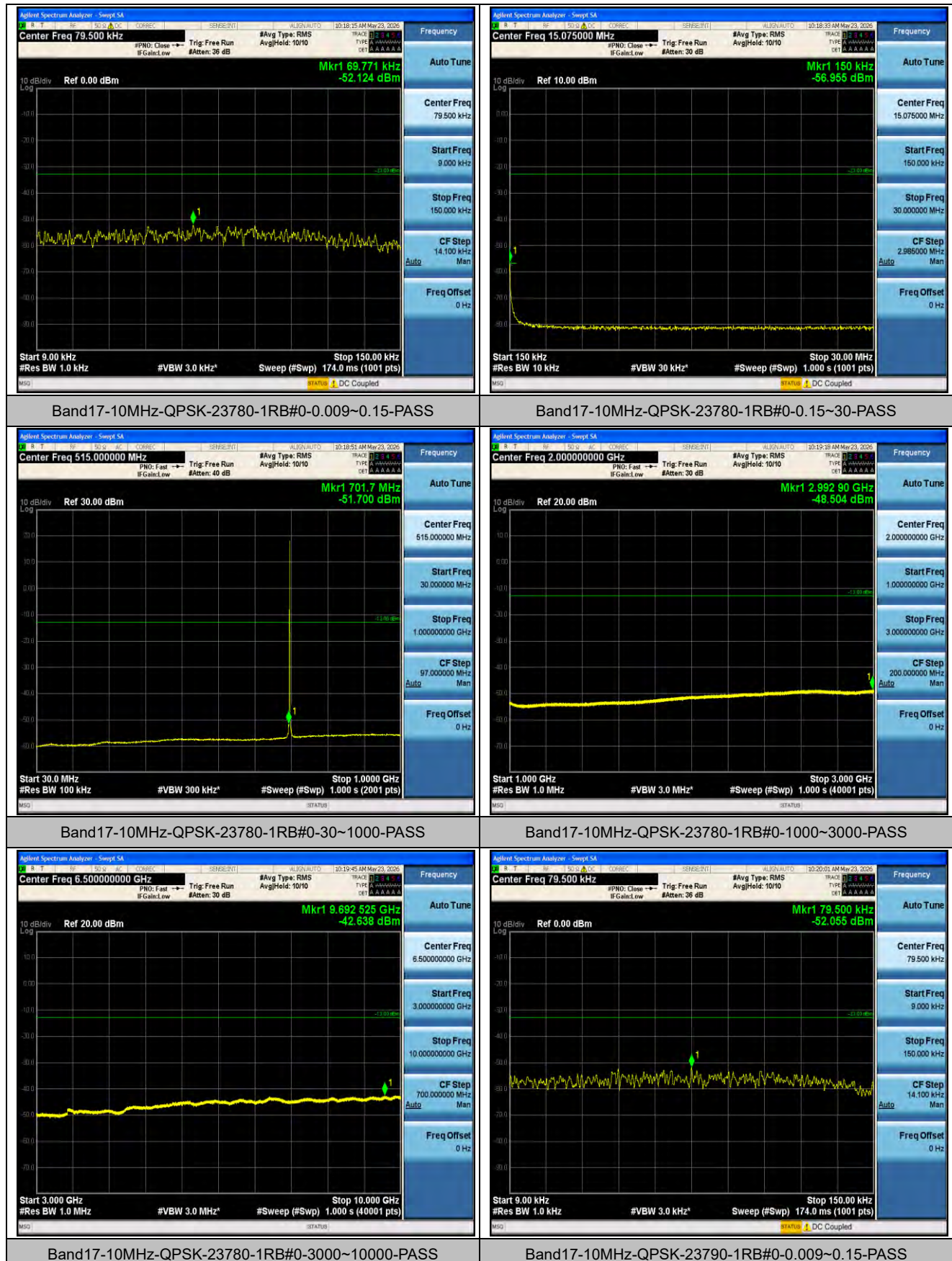
Test Graphs

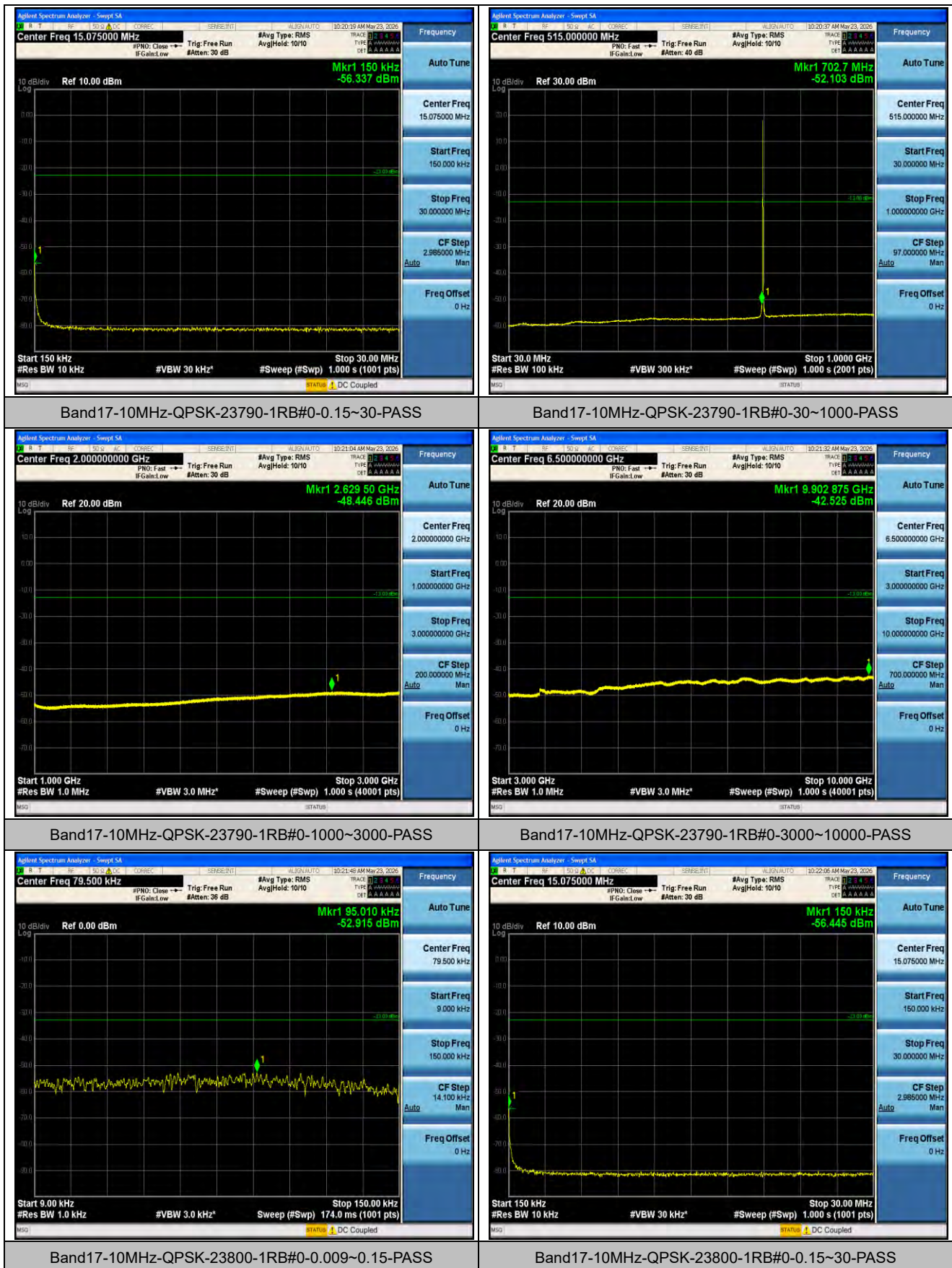


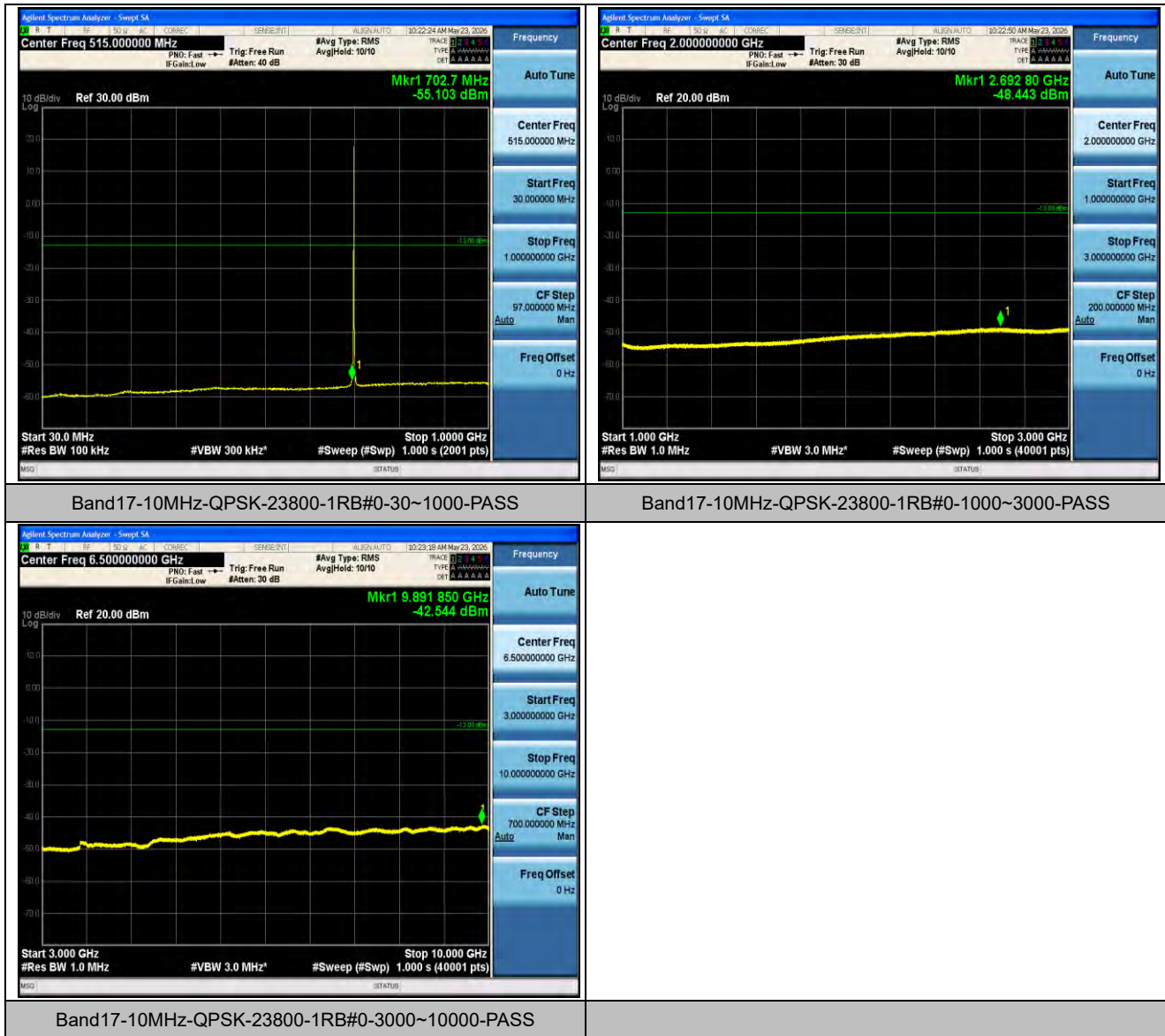


Conducted Spurious Emission

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	-0.70	-0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-2.10	-0.002958	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-1.00	-0.001408	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	-1.40	-0.001972	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-2.50	-0.003521	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-3.50	-0.004930	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-1.10	-0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.80	-0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-1.80	-0.002535	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-2.30	-0.003239	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-1.00	-0.001408	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-3.70	-0.005211	PASS

~The End~